# Exhibit Q: Spurious Radiated Emissions-RE Scans P1

# FCC ID: HN2WN-5MP01

# Radiated Emissions Scans

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

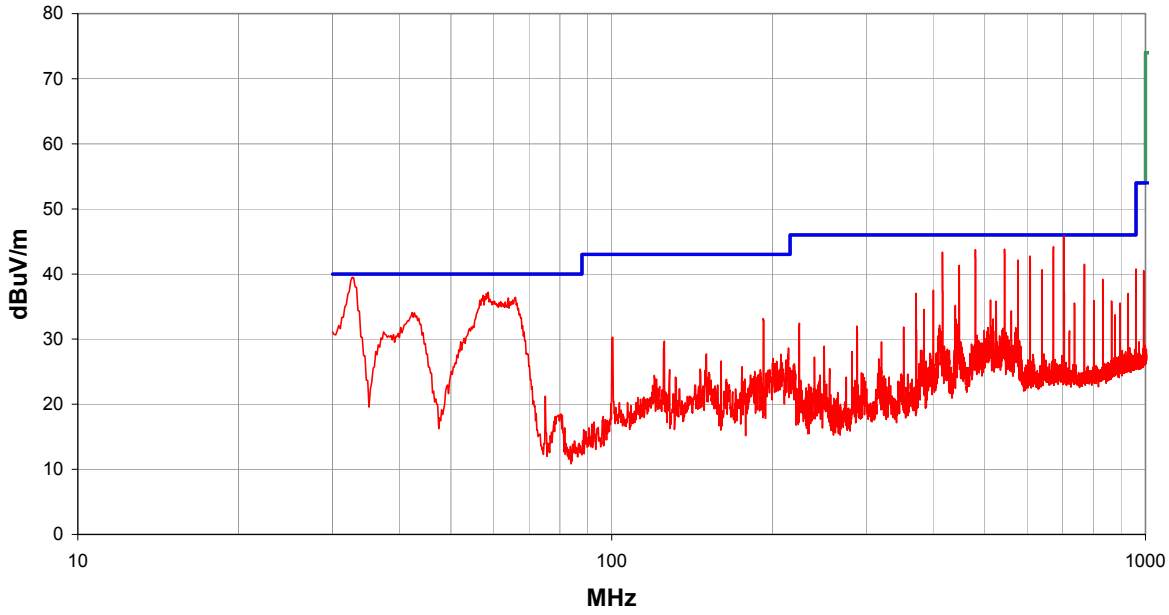
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 1 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 704.187 | 52.6 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.9 | 46.0 | -0.1 |
| 32.665 | 57.8 | 29.8 | 0.0 | 11.1 | 0.4 | 0.0 | V | | 0.0 | 39.5 | 40.0 | -0.5 |
| 672.240 | 51.3 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 44.2 | 46.0 | -1.8 |
| 544.544 | 52.8 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 43.8 | 46.0 | -2.2 |
| 480.162 | 54.0 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 43.7 | 46.0 | -2.3 |
| 416.617 | 55.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 43.4 | 46.0 | -2.6 |
| 480.162 | 53.5 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 43.2 | 46.0 | -2.8 |
| 58.700 | 59.2 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 37.2 | 40.0 | -2.8 |
| 607.897 | 50.6 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 42.8 | 46.0 | -3.2 |
| 704.187 | 49.2 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 42.5 | 46.0 | -3.5 |
| 577.028 | 50.5 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 42.2 | 46.0 | -3.8 |
| 768.530 | 48.4 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.5 | 46.0 | -4.5 |
| 447.974 | 52.3 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | V | | 0.0 | 41.3 | 46.0 | -4.7 |
| 640.294 | 48.2 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 40.7 | 46.0 | -5.3 |
| 768.080 | 47.4 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 40.5 | 46.0 | -5.5 |
| 672.240 | 47.5 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | V | | 0.0 | 40.4 | 46.0 | -5.6 |
| 640.069 | 47.7 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 40.2 | 46.0 | -5.8 |
| 42.300 | 55.5 | 29.7 | 0.0 | 7.8 | 0.4 | 0.0 | V | | 0.0 | 34.1 | 40.0 | -5.9 |
| 416.617 | 51.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 39.4 | 46.0 | -6.6 |
| 831.983 | 45.5 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | H | | 0.0 | 39.2 | 46.0 | -6.8 |
| 607.897 | 47.0 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | V | | 0.0 | 39.2 | 46.0 | -6.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

integral antenna

**EUT OPERATING MODES**

Radios off.

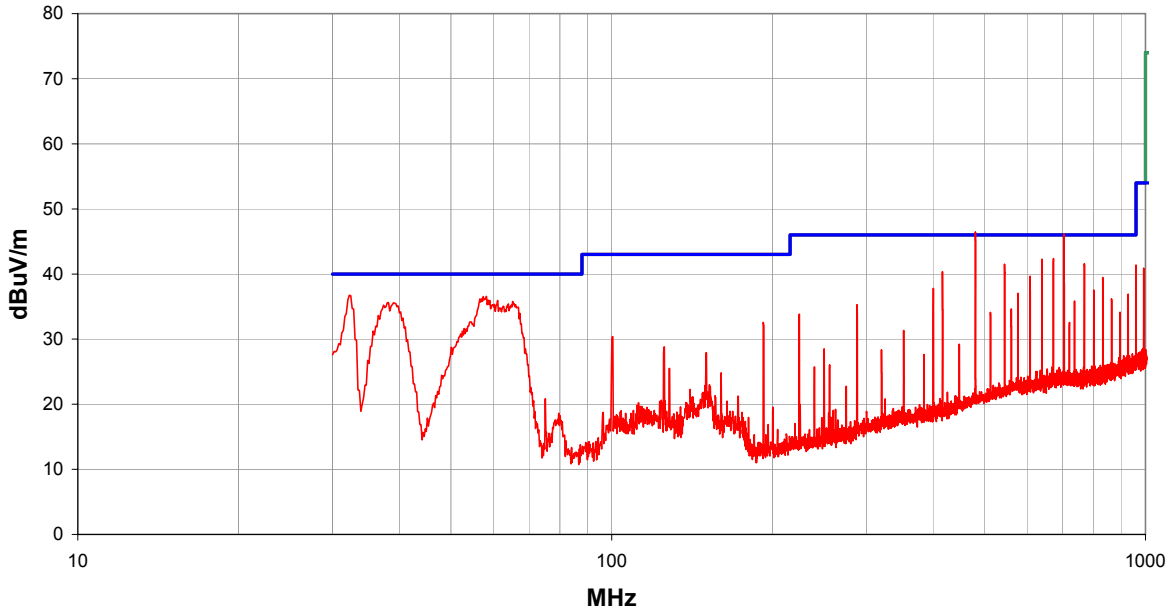
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 2 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 480.162 | 56.7 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 46.4 | 46.0 | 0.4 |
| 704.187 | 52.9 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 46.2 | 46.0 | 0.2 |
| 704.187 | 50.7 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 44.0 | 46.0 | -2.0 |
| 32.255 | 54.9 | 29.8 | 0.0 | 11.2 | 0.4 | 0.0 | V | | 0.0 | 36.7 | 40.0 | -3.3 |
| 58.290 | 58.6 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 36.6 | 40.0 | -3.4 |
| 672.240 | 49.5 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.4 | 46.0 | -3.6 |
| 640.294 | 49.8 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 42.3 | 46.0 | -3.7 |
| 480.162 | 52.5 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 42.2 | 46.0 | -3.8 |
| 38.200 | 56.0 | 29.7 | 0.0 | 8.9 | 0.4 | 0.0 | V | | 0.0 | 35.6 | 40.0 | -4.4 |
| 768.080 | 48.5 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.6 | 46.0 | -4.4 |
| 544.544 | 50.5 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 41.5 | 46.0 | -4.5 |
| 640.294 | 49.0 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 41.5 | 46.0 | -4.5 |
| 768.530 | 48.2 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 41.3 | 46.0 | -4.7 |
| 416.617 | 52.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 40.4 | 46.0 | -5.6 |
| 672.240 | 47.1 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | V | | 0.0 | 40.0 | 46.0 | -6.0 |
| 607.897 | 47.5 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 39.7 | 46.0 | -6.3 |
| 831.983 | 45.8 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | V | | 0.0 | 39.5 | 46.0 | -6.5 |
| 831.983 | 45.2 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | H | | 0.0 | 38.9 | 46.0 | -7.1 |
| 607.897 | 46.3 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | V | | 0.0 | 38.5 | 46.0 | -7.5 |
| 400.492 | 49.8 | 29.1 | 0.0 | 16.0 | 1.1 | 0.0 | V | | 0.0 | 37.8 | 46.0 | -8.2 |
| 800.205 | 44.2 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 37.5 | 46.0 | -8.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

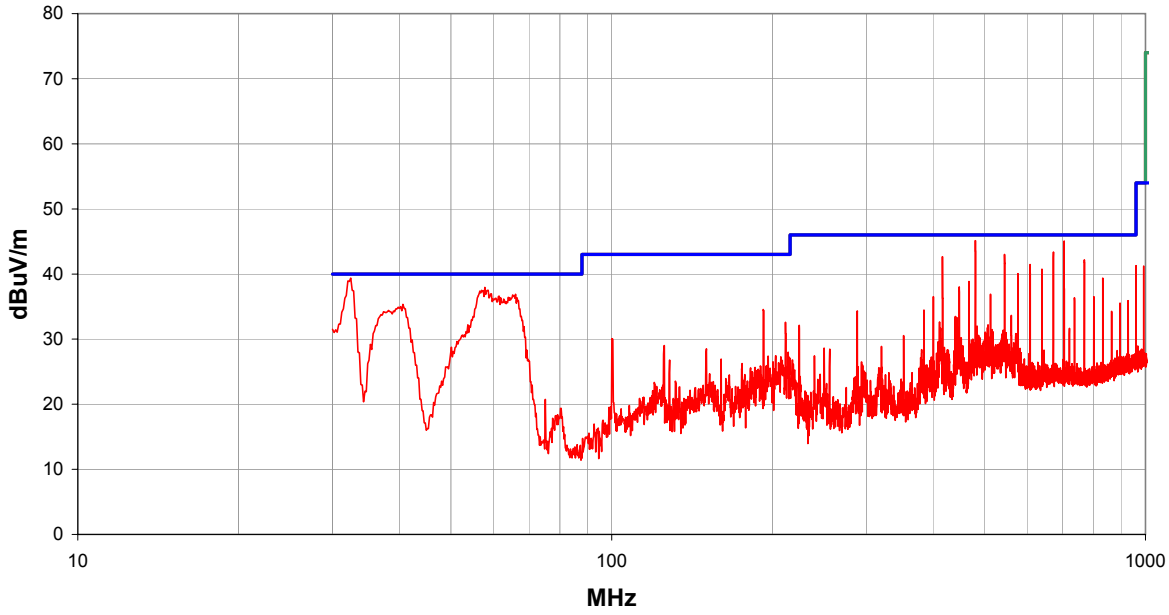
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 3 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.460 | 57.6 | 29.8 | 0.0 | 11.1 | 0.4 | 0.0 | V | | 0.0 | 39.4 | 40.0 | -0.6 |
| 480.162 | 55.4 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 45.1 | 46.0 | -0.9 |
| 704.187 | 51.8 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.1 | 46.0 | -0.9 |
| 57.880 | 60.0 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.0 | 40.0 | -2.0 |
| 704.187 | 50.2 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 43.5 | 46.0 | -2.5 |
| 672.240 | 50.5 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 43.4 | 46.0 | -2.6 |
| 544.544 | 52.0 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 43.0 | 46.0 | -3.0 |
| 416.617 | 54.3 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 42.7 | 46.0 | -3.3 |
| 768.080 | 49.1 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 42.2 | 46.0 | -3.8 |
| 768.080 | 48.9 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 42.0 | 46.0 | -4.0 |
| 607.897 | 49.3 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 41.5 | 46.0 | -4.5 |
| 672.240 | 48.5 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | V | | 0.0 | 41.4 | 46.0 | -4.6 |
| 40.660 | 56.5 | 29.7 | 0.0 | 8.1 | 0.4 | 0.0 | V | | 0.0 | 35.3 | 40.0 | -4.7 |
| 607.897 | 48.6 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | V | | 0.0 | 40.8 | 46.0 | -5.2 |
| 640.069 | 48.3 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 40.8 | 46.0 | -5.2 |
| 480.162 | 50.6 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 40.3 | 46.0 | -5.7 |
| 577.028 | 48.4 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 40.1 | 46.0 | -5.9 |
| 639.844 | 47.2 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 39.7 | 46.0 | -6.3 |
| 831.983 | 45.7 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | V | | 0.0 | 39.4 | 46.0 | -6.6 |
| 416.617 | 51.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 39.4 | 46.0 | -6.6 |
| 831.983 | 45.6 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | H | | 0.0 | 39.3 | 46.0 | -6.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

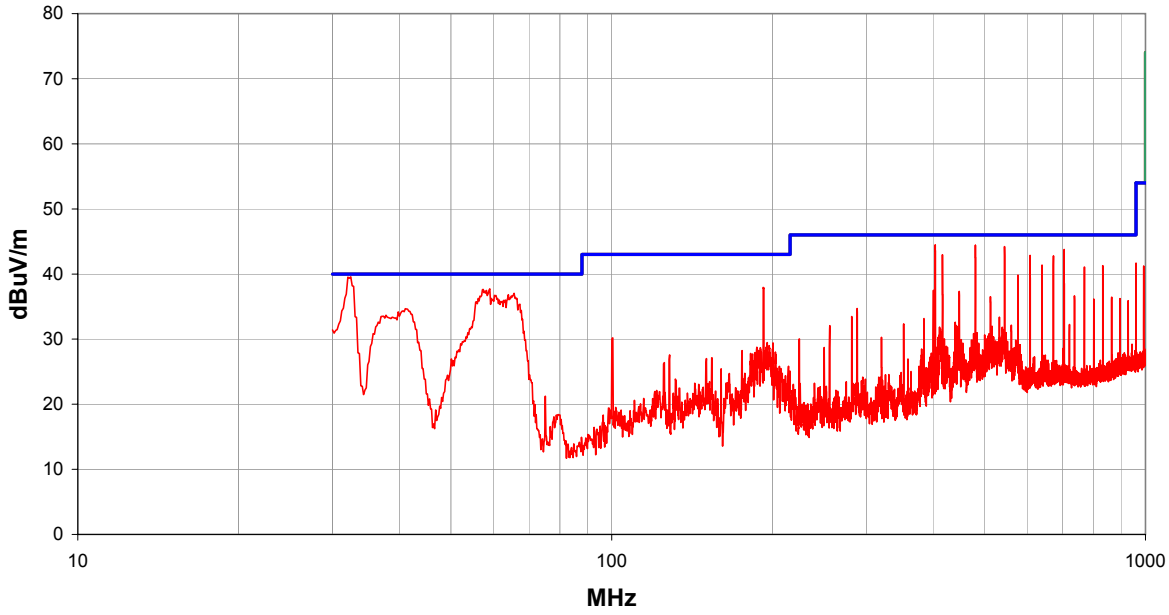
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 4 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.460 | 57.8 | 29.8 | 0.0 | 11.1 | 0.4 | 0.0 | V | | 0.0 | 39.6 | 40.0 | -0.4 |
| 403.717 | 56.4 | 29.1 | 0.0 | 16.1 | 1.1 | 0.0 | V | | 0.0 | 44.5 | 46.0 | -1.5 |
| 480.162 | 54.7 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 44.4 | 46.0 | -1.6 |
| 544.544 | 53.2 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 44.2 | 46.0 | -1.8 |
| 704.187 | 50.5 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 43.8 | 46.0 | -2.2 |
| 59.110 | 59.7 | 29.5 | 0.0 | 7.1 | 0.5 | 0.0 | V | | 0.0 | 37.7 | 40.0 | -2.3 |
| 704.187 | 50.1 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 43.4 | 46.0 | -2.6 |
| 65.670 | 58.2 | 29.5 | 0.0 | 7.8 | 0.5 | 0.0 | V | | 0.0 | 37.0 | 40.0 | -3.0 |
| 416.617 | 54.6 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 43.0 | 46.0 | -3.0 |
| 607.897 | 50.7 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 42.9 | 46.0 | -3.1 |
| 672.240 | 49.9 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.8 | 46.0 | -3.2 |
| 416.617 | 54.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 42.4 | 46.0 | -3.6 |
| 672.240 | 48.6 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | V | | 0.0 | 41.5 | 46.0 | -4.5 |
| 640.294 | 48.9 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 41.4 | 46.0 | -4.6 |
| 831.983 | 47.6 | 30.3 | 0.0 | 22.3 | 1.6 | 0.0 | H | | 0.0 | 41.3 | 46.0 | -4.7 |
| 768.530 | 48.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.1 | 46.0 | -4.9 |
| 192.361 | 56.2 | 29.2 | 0.0 | 10.2 | 0.8 | 0.0 | H | | 0.0 | 38.0 | 43.0 | -5.0 |
| 544.544 | 49.9 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | H | | 0.0 | 40.9 | 46.0 | -5.1 |
| 41.070 | 55.9 | 29.7 | 0.0 | 8.0 | 0.4 | 0.0 | V | | 0.0 | 34.7 | 40.0 | -5.3 |
| 768.080 | 47.1 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 40.2 | 46.0 | -5.8 |
| 640.069 | 47.6 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 40.1 | 46.0 | -5.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

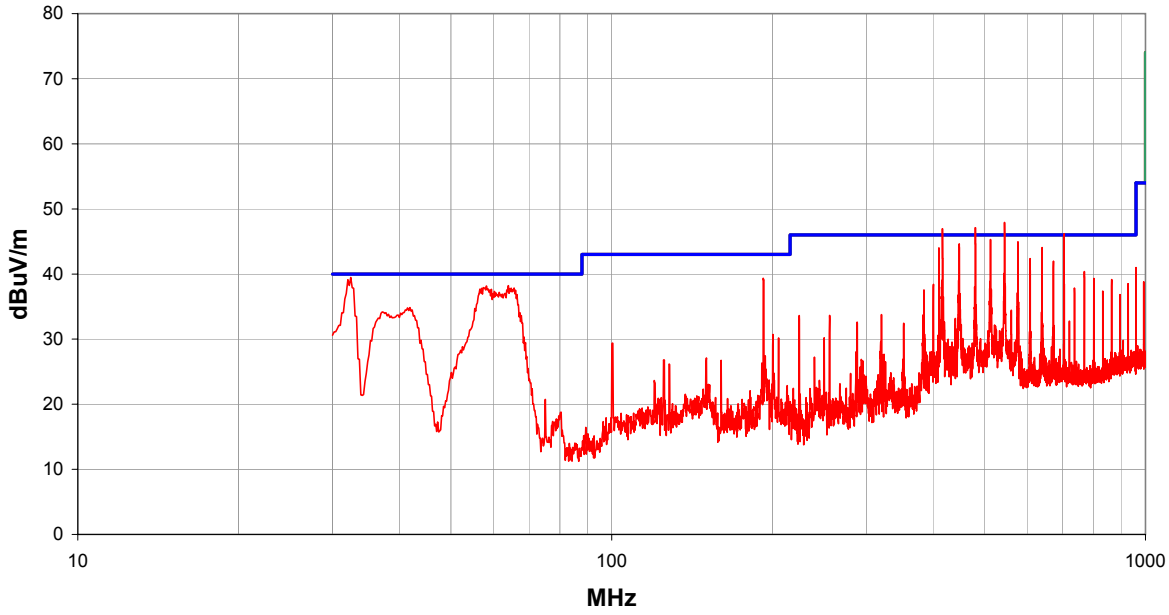
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 5 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 544.544 | 56.9 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 47.9 | 46.0 | 1.9 |
| 480.162 | 57.4 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 47.1 | 46.0 | 1.1 |
| 416.617 | 58.6 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 47.0 | 46.0 | 1.0 |
| 704.187 | 52.9 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 46.2 | 46.0 | 0.2 |
| 32.460 | 57.7 | 29.8 | 0.0 | 11.1 | 0.4 | 0.0 | V | | 0.0 | 39.5 | 40.0 | -0.5 |
| 512.640 | 54.9 | 29.2 | 0.0 | 18.3 | 1.3 | 0.0 | V | | 0.0 | 45.3 | 46.0 | -0.7 |
| 416.617 | 56.7 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 45.1 | 46.0 | -0.9 |
| 576.738 | 53.3 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 44.9 | 46.0 | -1.1 |
| 447.829 | 55.6 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | H | | 0.0 | 44.6 | 46.0 | -1.4 |
| 447.829 | 55.4 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | V | | 0.0 | 44.4 | 46.0 | -1.6 |
| 64.030 | 59.6 | 29.5 | 0.0 | 7.6 | 0.5 | 0.0 | V | | 0.0 | 38.2 | 40.0 | -1.8 |
| 58.290 | 60.2 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.2 | 40.0 | -1.8 |
| 640.294 | 51.6 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 44.1 | 46.0 | -1.9 |
| 410.167 | 55.8 | 29.1 | 0.0 | 16.2 | 1.1 | 0.0 | V | | 0.0 | 44.0 | 46.0 | -2.0 |
| 480.162 | 54.0 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 43.7 | 46.0 | -2.3 |
| 512.350 | 53.3 | 29.1 | 0.0 | 18.3 | 1.3 | 0.0 | H | | 0.0 | 43.7 | 46.0 | -2.3 |
| 640.294 | 51.1 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 43.6 | 46.0 | -2.4 |
| 544.544 | 52.5 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | H | | 0.0 | 43.5 | 46.0 | -2.5 |
| 607.897 | 50.2 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 42.4 | 46.0 | -3.6 |
| 192.361 | 57.6 | 29.2 | 0.0 | 10.2 | 0.8 | 0.0 | H | | 0.0 | 39.4 | 43.0 | -3.6 |
| 672.240 | 49.1 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.0 | 46.0 | -4.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

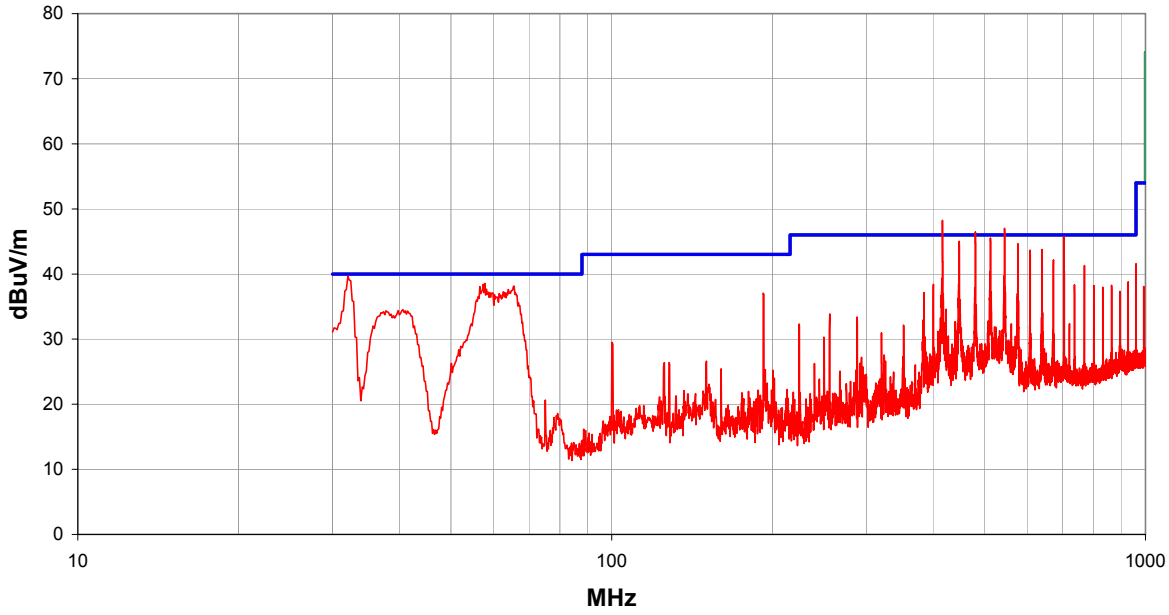
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 6 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416.617 | 59.9 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 48.3 | 46.0 | 2.3 |
| 544.544 | 56.0 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 47.0 | 46.0 | 1.0 |
| 480.162 | 56.7 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 46.4 | 46.0 | 0.4 |
| 704.187 | 52.5 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.8 | 46.0 | -0.2 |
| 32.050 | 57.7 | 29.8 | 0.0 | 11.3 | 0.4 | 0.0 | V | | 0.0 | 39.6 | 40.0 | -0.4 |
| 512.350 | 55.1 | 29.1 | 0.0 | 18.3 | 1.3 | 0.0 | V | | 0.0 | 45.5 | 46.0 | -0.5 |
| 447.829 | 56.0 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | H | | 0.0 | 45.0 | 46.0 | -1.0 |
| 480.452 | 55.0 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 44.7 | 46.0 | -1.3 |
| 577.028 | 53.0 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 44.7 | 46.0 | -1.3 |
| 57.880 | 60.6 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.6 | 40.0 | -1.4 |
| 65.670 | 59.3 | 29.5 | 0.0 | 7.8 | 0.5 | 0.0 | V | | 0.0 | 38.1 | 40.0 | -1.9 |
| 448.264 | 55.1 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | V | | 0.0 | 44.1 | 46.0 | -1.9 |
| 640.294 | 51.3 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 43.8 | 46.0 | -2.2 |
| 607.897 | 51.5 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 43.7 | 46.0 | -2.3 |
| 544.834 | 52.5 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | H | | 0.0 | 43.5 | 46.0 | -2.5 |
| 512.350 | 52.1 | 29.1 | 0.0 | 18.3 | 1.3 | 0.0 | H | | 0.0 | 42.5 | 46.0 | -3.5 |
| 640.294 | 49.8 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 42.3 | 46.0 | -3.7 |
| 672.240 | 49.3 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.2 | 46.0 | -3.8 |
| 416.617 | 53.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 41.4 | 46.0 | -4.6 |
| 768.530 | 48.2 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.3 | 46.0 | -4.7 |
| 704.187 | 47.5 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 40.8 | 46.0 | -5.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

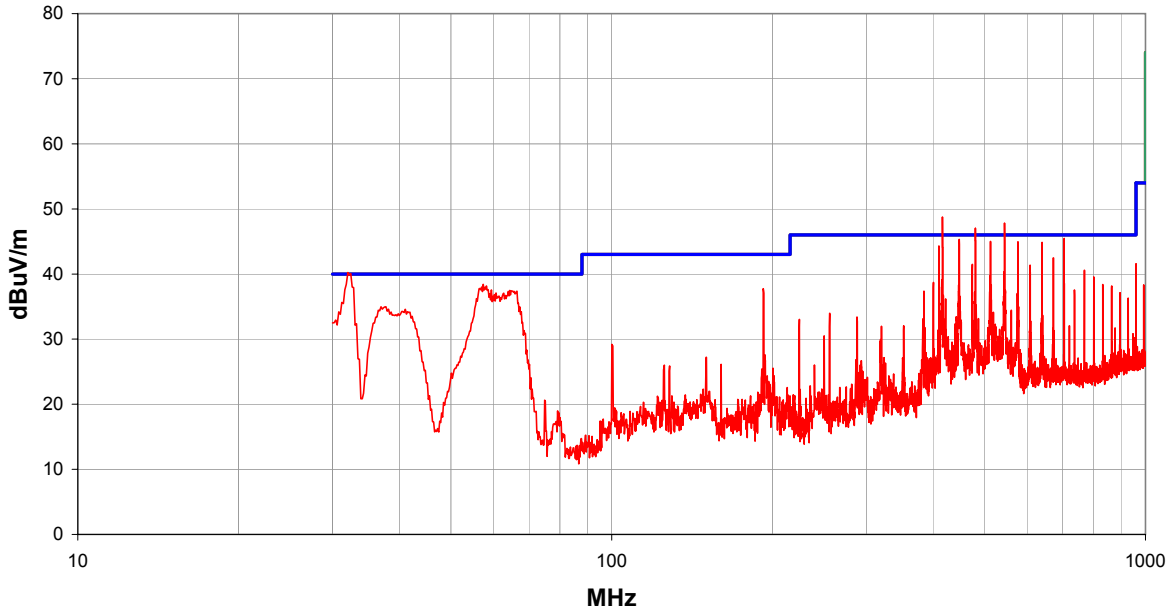
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 7 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416.617 | 60.4 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 48.8 | 46.0 | 2.8 |
| 544.544 | 56.8 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 47.8 | 46.0 | 1.8 |
| 480.162 | 57.3 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 47.0 | 46.0 | 1.0 |
| 32.050 | 58.3 | 29.8 | 0.0 | 11.3 | 0.4 | 0.0 | V | | 0.0 | 40.2 | 40.0 | 0.2 |
| 704.187 | 52.2 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.5 | 46.0 | -0.5 |
| 447.829 | 56.3 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | H | | 0.0 | 45.3 | 46.0 | -0.7 |
| 512.640 | 54.6 | 29.2 | 0.0 | 18.3 | 1.3 | 0.0 | V | | 0.0 | 45.0 | 46.0 | -1.0 |
| 577.028 | 53.3 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 45.0 | 46.0 | -1.0 |
| 640.294 | 52.4 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 44.9 | 46.0 | -1.1 |
| 416.617 | 56.4 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 44.8 | 46.0 | -1.2 |
| 447.829 | 55.5 | 29.1 | 0.0 | 17.0 | 1.2 | 0.0 | V | | 0.0 | 44.5 | 46.0 | -1.5 |
| 57.470 | 60.5 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.4 | 40.0 | -1.6 |
| 410.167 | 56.1 | 29.1 | 0.0 | 16.2 | 1.1 | 0.0 | H | | 0.0 | 44.3 | 46.0 | -1.7 |
| 480.162 | 54.4 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 44.1 | 46.0 | -1.9 |
| 640.294 | 51.4 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 43.9 | 46.0 | -2.1 |
| 544.544 | 51.8 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | H | | 0.0 | 42.8 | 46.0 | -3.2 |
| 512.640 | 52.2 | 29.2 | 0.0 | 18.3 | 1.3 | 0.0 | H | | 0.0 | 42.6 | 46.0 | -3.4 |
| 672.240 | 49.6 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.5 | 46.0 | -3.5 |
| 576.738 | 50.3 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | H | | 0.0 | 41.9 | 46.0 | -4.1 |
| 704.187 | 48.3 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 41.6 | 46.0 | -4.4 |
| 473.782 | 51.9 | 29.1 | 0.0 | 17.5 | 1.2 | 0.0 | V | | 0.0 | 41.5 | 46.0 | -4.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

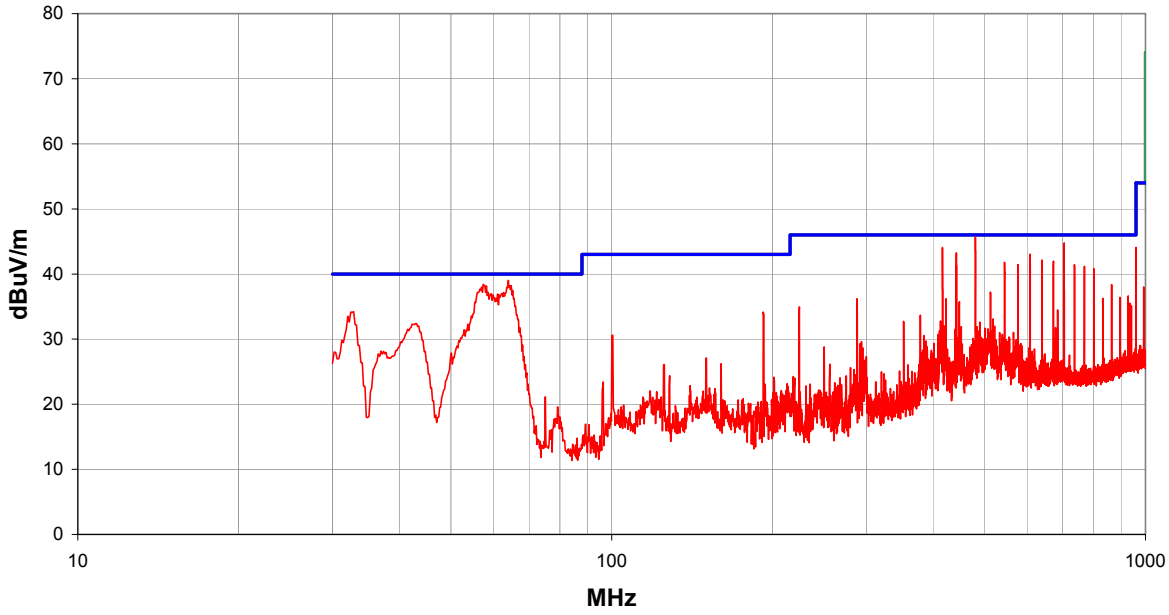
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 8 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 480.162 | 55.9 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 45.6 | 46.0 | -0.4 |
| 64.030 | 60.4 | 29.5 | 0.0 | 7.6 | 0.5 | 0.0 | V | | 0.0 | 39.0 | 40.0 | -1.0 |
| 704.187 | 51.5 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 44.8 | 46.0 | -1.2 |
| 57.470 | 60.5 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.4 | 40.0 | -1.6 |
| 416.617 | 55.7 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 44.1 | 46.0 | -1.9 |
| 442.416 | 54.3 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 43.2 | 46.0 | -2.8 |
| 607.897 | 50.9 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 43.1 | 46.0 | -2.9 |
| 704.187 | 49.7 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 43.0 | 46.0 | -3.0 |
| 480.162 | 52.7 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 42.4 | 46.0 | -3.6 |
| 640.294 | 49.7 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 42.2 | 46.0 | -3.8 |
| 672.240 | 49.1 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 42.0 | 46.0 | -4.0 |
| 544.544 | 50.8 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 41.8 | 46.0 | -4.2 |
| 640.069 | 49.2 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 41.7 | 46.0 | -4.3 |
| 736.133 | 48.4 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 41.4 | 46.0 | -4.6 |
| 576.738 | 49.8 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 41.4 | 46.0 | -4.6 |
| 416.617 | 53.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 41.4 | 46.0 | -4.6 |
| 442.201 | 52.4 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 41.3 | 46.0 | -4.7 |
| 736.133 | 48.2 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 41.2 | 46.0 | -4.8 |
| 768.530 | 48.1 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.2 | 46.0 | -4.8 |
| 800.000 | 47.5 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.8 | 46.0 | -5.2 |
| 800.205 | 47.4 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.7 | 46.0 | -5.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

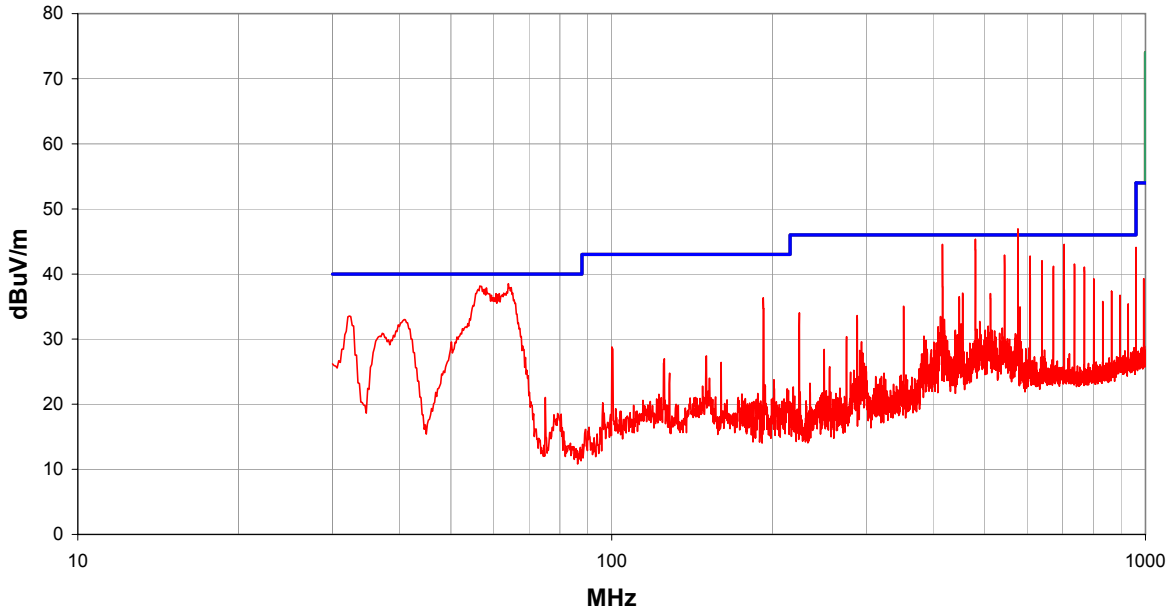
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 9 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 576.738 | 55.3 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 46.9 | 46.0 | 0.9 |
| 480.162 | 55.6 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 45.3 | 46.0 | -0.7 |
| 704.187 | 51.3 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 44.6 | 46.0 | -1.4 |
| 416.617 | 56.2 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 44.6 | 46.0 | -1.4 |
| 64.030 | 59.9 | 29.5 | 0.0 | 7.6 | 0.5 | 0.0 | V | | 0.0 | 38.5 | 40.0 | -1.5 |
| 56.650 | 60.3 | 29.5 | 0.0 | 6.9 | 0.5 | 0.0 | V | | 0.0 | 38.2 | 40.0 | -1.8 |
| 704.187 | 50.4 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 43.7 | 46.0 | -2.3 |
| 544.544 | 51.9 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 42.9 | 46.0 | -3.1 |
| 607.897 | 50.6 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 42.8 | 46.0 | -3.2 |
| 480.162 | 53.0 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 42.7 | 46.0 | -3.3 |
| 640.069 | 49.6 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 42.1 | 46.0 | -3.9 |
| 640.294 | 49.5 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 42.0 | 46.0 | -4.0 |
| 416.617 | 53.3 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 41.7 | 46.0 | -4.3 |
| 736.133 | 48.5 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 41.5 | 46.0 | -4.5 |
| 736.133 | 48.4 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 41.4 | 46.0 | -4.6 |
| 672.240 | 48.3 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 41.2 | 46.0 | -4.8 |
| 768.080 | 48.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.1 | 46.0 | -4.9 |
| 768.080 | 47.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 40.1 | 46.0 | -5.9 |
| 32.255 | 51.7 | 29.8 | 0.0 | 11.2 | 0.4 | 0.0 | V | | 0.0 | 33.5 | 40.0 | -6.5 |
| 192.361 | 54.6 | 29.2 | 0.0 | 10.2 | 0.8 | 0.0 | H | | 0.0 | 36.4 | 43.0 | -6.6 |
| 800.476 | 45.9 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | V | | 0.0 | 39.2 | 46.0 | -6.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

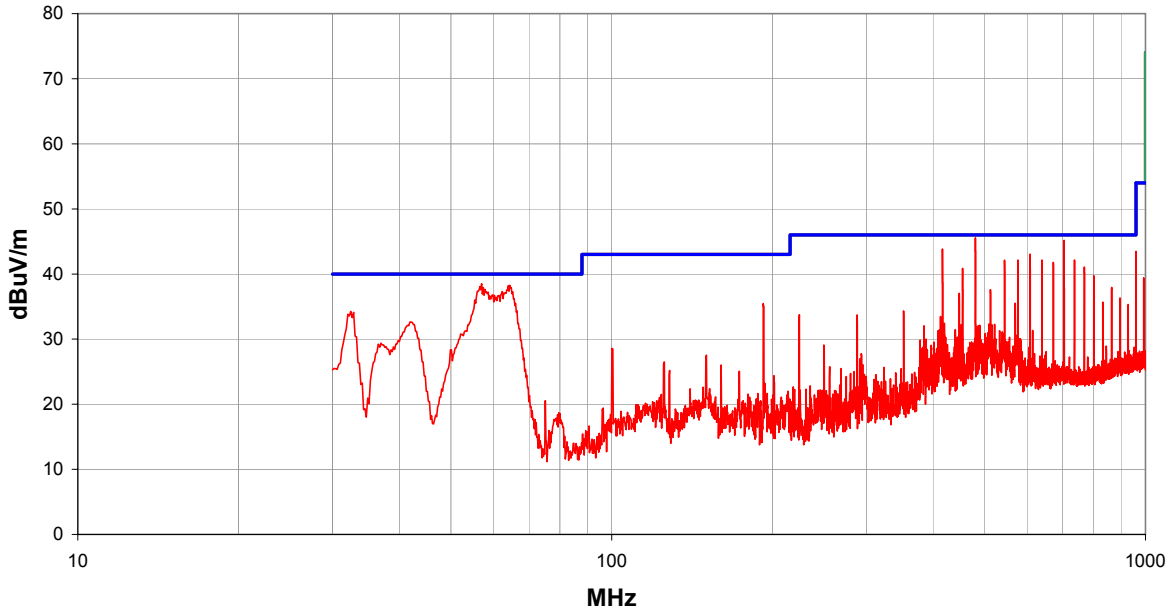
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 10 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 480.162 | 55.8 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 45.5 | 46.0 | -0.5 |
| 704.187 | 51.9 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.2 | 46.0 | -0.8 |
| 57.060 | 60.6 | 29.5 | 0.0 | 7.0 | 0.5 | 0.0 | V | | 0.0 | 38.5 | 40.0 | -1.5 |
| 64.440 | 59.6 | 29.5 | 0.0 | 7.7 | 0.5 | 0.0 | V | | 0.0 | 38.3 | 40.0 | -1.7 |
| 704.187 | 50.7 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 44.0 | 46.0 | -2.0 |
| 416.617 | 55.5 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 43.9 | 46.0 | -2.1 |
| 607.897 | 50.9 | 29.5 | 0.0 | 20.3 | 1.4 | 0.0 | H | | 0.0 | 43.1 | 46.0 | -2.9 |
| 480.162 | 52.9 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 42.6 | 46.0 | -3.4 |
| 416.617 | 54.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 42.4 | 46.0 | -3.6 |
| 640.069 | 49.7 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 42.2 | 46.0 | -3.8 |
| 736.133 | 49.1 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 42.1 | 46.0 | -3.9 |
| 576.738 | 50.5 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 42.1 | 46.0 | -3.9 |
| 544.544 | 51.1 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 42.1 | 46.0 | -3.9 |
| 672.015 | 48.9 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 41.8 | 46.0 | -4.2 |
| 640.294 | 49.3 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 41.8 | 46.0 | -4.2 |
| 736.133 | 48.7 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 41.7 | 46.0 | -4.3 |
| 768.080 | 48.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.1 | 46.0 | -4.9 |
| 454.354 | 51.7 | 29.1 | 0.0 | 17.1 | 1.2 | 0.0 | V | | 0.0 | 40.9 | 46.0 | -5.1 |
| 768.080 | 47.7 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 40.8 | 46.0 | -5.2 |
| 32.460 | 52.5 | 29.8 | 0.0 | 11.1 | 0.4 | 0.0 | V | | 0.0 | 34.3 | 40.0 | -5.7 |
| 800.251 | 46.4 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | V | | 0.0 | 39.7 | 46.0 | -6.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

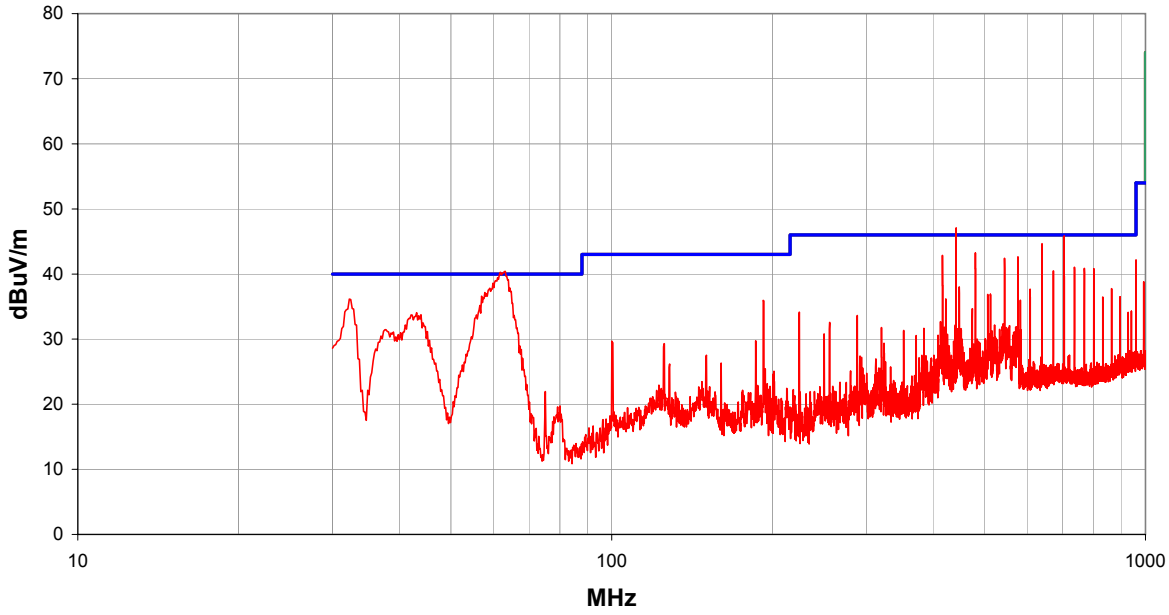
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 11 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 441.885 | 58.2 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 47.1 | 46.0 | 1.1 |
| 441.740 | 57.6 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 46.5 | 46.0 | 0.5 |
| 63.210 | 61.9 | 29.5 | 0.0 | 7.5 | 0.5 | 0.0 | V | | 0.0 | 40.4 | 40.0 | 0.4 |
| 704.187 | 52.6 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.9 | 46.0 | -0.1 |
| 640.294 | 52.2 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 44.7 | 46.0 | -1.3 |
| 480.162 | 53.5 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 43.2 | 46.0 | -2.8 |
| 416.617 | 54.5 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 42.9 | 46.0 | -3.1 |
| 576.738 | 51.0 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 42.6 | 46.0 | -3.4 |
| 544.544 | 51.4 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 42.4 | 46.0 | -3.6 |
| 32.255 | 54.3 | 29.8 | 0.0 | 11.2 | 0.4 | 0.0 | V | | 0.0 | 36.1 | 40.0 | -3.9 |
| 480.162 | 52.4 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 42.1 | 46.0 | -3.9 |
| 704.187 | 48.1 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 41.4 | 46.0 | -4.6 |
| 736.133 | 48.0 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 41.0 | 46.0 | -5.0 |
| 768.080 | 47.8 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 40.9 | 46.0 | -5.1 |
| 416.617 | 52.5 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 40.9 | 46.0 | -5.1 |
| 800.205 | 47.5 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.8 | 46.0 | -5.2 |
| 736.133 | 47.6 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 40.6 | 46.0 | -5.4 |
| 800.000 | 47.3 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.6 | 46.0 | -5.4 |
| 672.240 | 47.6 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 40.5 | 46.0 | -5.5 |
| 672.240 | 47.6 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | V | | 0.0 | 40.5 | 46.0 | -5.5 |
| 640.069 | 48.0 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 40.5 | 46.0 | -5.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

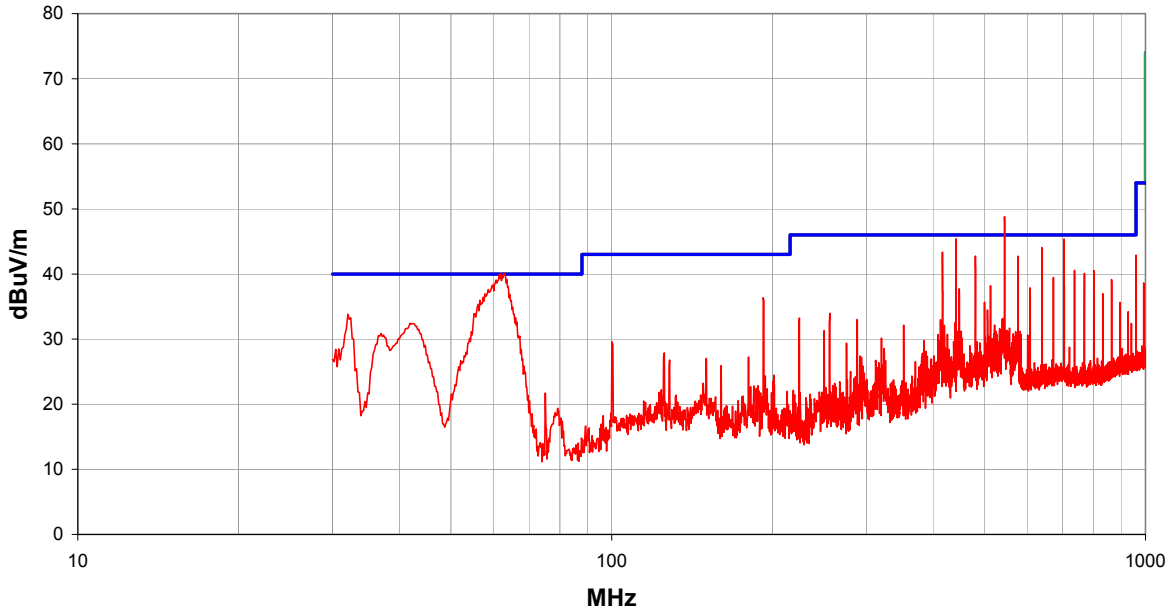
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 12 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 544.544 | 57.8 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 48.8 | 46.0 | 2.8 |
| 62.800 | 61.7 | 29.5 | 0.0 | 7.5 | 0.5 | 0.0 | V | | 0.0 | 40.2 | 40.0 | 0.2 |
| 441.885 | 56.5 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 45.4 | 46.0 | -0.6 |
| 704.187 | 52.1 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.4 | 46.0 | -0.6 |
| 441.740 | 56.4 | 29.1 | 0.0 | 16.8 | 1.2 | 0.0 | V | | 0.0 | 45.3 | 46.0 | -0.7 |
| 640.294 | 51.6 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 44.1 | 46.0 | -1.9 |
| 416.617 | 55.0 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 43.4 | 46.0 | -2.6 |
| 576.738 | 51.1 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 42.7 | 46.0 | -3.3 |
| 480.162 | 53.0 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 42.7 | 46.0 | -3.3 |
| 704.187 | 48.9 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 42.2 | 46.0 | -3.8 |
| 640.294 | 49.7 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 42.2 | 46.0 | -3.8 |
| 480.162 | 52.1 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 41.8 | 46.0 | -4.2 |
| 416.617 | 52.9 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 41.3 | 46.0 | -4.7 |
| 736.133 | 47.5 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 40.5 | 46.0 | -5.5 |
| 800.205 | 47.2 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.5 | 46.0 | -5.5 |
| 736.133 | 47.1 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 40.1 | 46.0 | -5.9 |
| 768.530 | 47.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 40.1 | 46.0 | -5.9 |
| 800.000 | 46.6 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 39.9 | 46.0 | -6.1 |
| 32.050 | 51.9 | 29.8 | 0.0 | 11.3 | 0.4 | 0.0 | V | | 0.0 | 33.8 | 40.0 | -6.2 |
| 768.080 | 46.6 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 39.7 | 46.0 | -6.3 |
| 800.410 | 46.3 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 39.6 | 46.0 | -6.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC Part 15.209(a) | Year: | 2000 |
| Method: | ANSI C63.4 | Year: | 1992 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

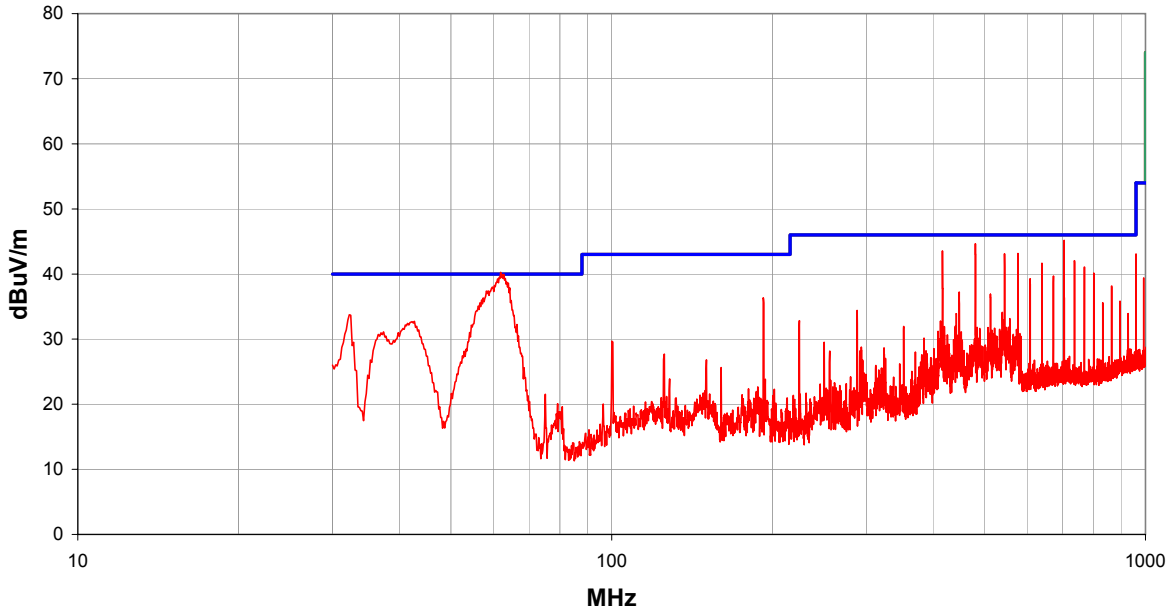
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 3 | 13 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61.980 | 61.9 | 29.5 | 0.0 | 7.4 | 0.5 | 0.0 | V | | 0.0 | 40.2 | 40.0 | 0.2 |
| 704.187 | 51.9 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | V | | 0.0 | 45.2 | 46.0 | -0.8 |
| 480.162 | 54.9 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | V | | 0.0 | 44.6 | 46.0 | -1.4 |
| 416.617 | 55.2 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | V | | 0.0 | 43.6 | 46.0 | -2.4 |
| 576.738 | 51.5 | 29.4 | 0.0 | 19.7 | 1.4 | 0.0 | V | | 0.0 | 43.1 | 46.0 | -2.9 |
| 544.544 | 52.1 | 29.3 | 0.0 | 19.0 | 1.3 | 0.0 | V | | 0.0 | 43.1 | 46.0 | -2.9 |
| 704.187 | 49.0 | 29.9 | 0.0 | 21.7 | 1.5 | 0.0 | H | | 0.0 | 42.3 | 46.0 | -3.7 |
| 736.133 | 49.0 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | V | | 0.0 | 42.0 | 46.0 | -4.0 |
| 480.162 | 52.2 | 29.1 | 0.0 | 17.6 | 1.2 | 0.0 | H | | 0.0 | 41.9 | 46.0 | -4.1 |
| 640.069 | 49.2 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | V | | 0.0 | 41.7 | 46.0 | -4.3 |
| 640.294 | 49.1 | 29.7 | 0.0 | 20.7 | 1.4 | 0.0 | H | | 0.0 | 41.6 | 46.0 | -4.4 |
| 416.617 | 53.2 | 29.1 | 0.0 | 16.3 | 1.1 | 0.0 | H | | 0.0 | 41.6 | 46.0 | -4.4 |
| 768.530 | 48.0 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | V | | 0.0 | 41.1 | 46.0 | -4.9 |
| 800.205 | 46.8 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 40.1 | 46.0 | -5.9 |
| 736.133 | 46.8 | 30.0 | 0.0 | 21.6 | 1.5 | 0.0 | H | | 0.0 | 39.8 | 46.0 | -6.2 |
| 32.255 | 51.9 | 29.8 | 0.0 | 11.2 | 0.4 | 0.0 | V | | 0.0 | 33.7 | 40.0 | -6.3 |
| 672.240 | 46.8 | 29.8 | 0.0 | 21.2 | 1.5 | 0.0 | H | | 0.0 | 39.7 | 46.0 | -6.3 |
| 800.000 | 46.3 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 39.6 | 46.0 | -6.4 |
| 768.530 | 46.5 | 30.2 | 0.0 | 21.7 | 1.6 | 0.0 | H | | 0.0 | 39.6 | 46.0 | -6.4 |
| 192.361 | 54.6 | 29.2 | 0.0 | 10.2 | 0.8 | 0.0 | H | | 0.0 | 36.4 | 43.0 | -6.6 |
| 800.410 | 46.0 | 30.3 | 0.0 | 22.0 | 1.6 | 0.0 | H | | 0.0 | 39.3 | 46.0 | -6.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

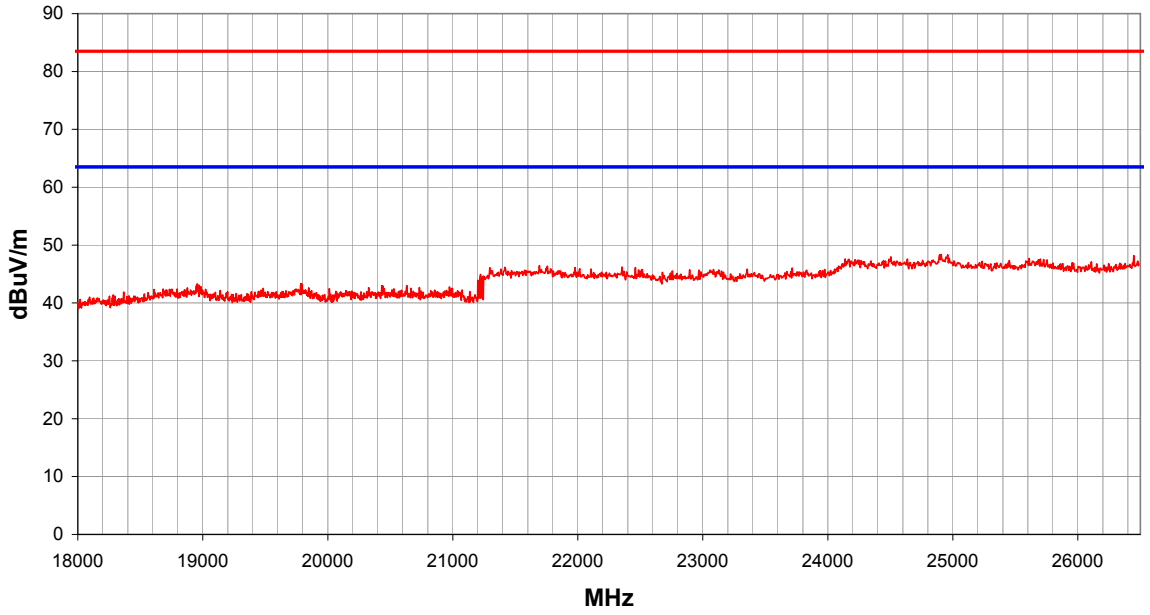
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 14 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24906.450 | 36.8 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | V | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24895.860 | 36.8 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 26447.270 | 35.0 | 35.1 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 48.2 | 83.5 | -35.3 |
| 24504.030 | 36.7 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | H | | 0.0 | 48.0 | 83.5 | -35.5 |
| 25610.670 | 35.4 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 25727.160 | 35.1 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26479.040 | 34.0 | 35.1 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.2 | 83.5 | -36.3 |
| 26108.390 | 34.3 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.1 | 83.5 | -36.4 |
| 21692.430 | 35.3 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 21755.970 | 35.2 | 36.1 | 0.0 | 40.3 | 7.0 | 0.0 | V | | 0.0 | 46.4 | 83.5 | -37.1 |
| 22354.290 | 35.1 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21417.090 | 35.2 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 22460.190 | 35.1 | 36.0 | 0.0 | 40.3 | 6.7 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 21978.350 | 34.8 | 36.0 | 0.0 | 40.3 | 7.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 23715.090 | 35.2 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23355.030 | 35.1 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 23084.990 | 35.1 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22894.380 | 35.0 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | V | | 0.0 | 45.7 | 83.5 | -37.8 |
| 23127.350 | 35.0 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | V | | 0.0 | 45.7 | 83.5 | -37.8 |
| 22756.710 | 34.7 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | V | | 0.0 | 45.5 | 83.5 | -38.0 |
| 22677.280 | 34.4 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 45.3 | 83.5 | -38.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

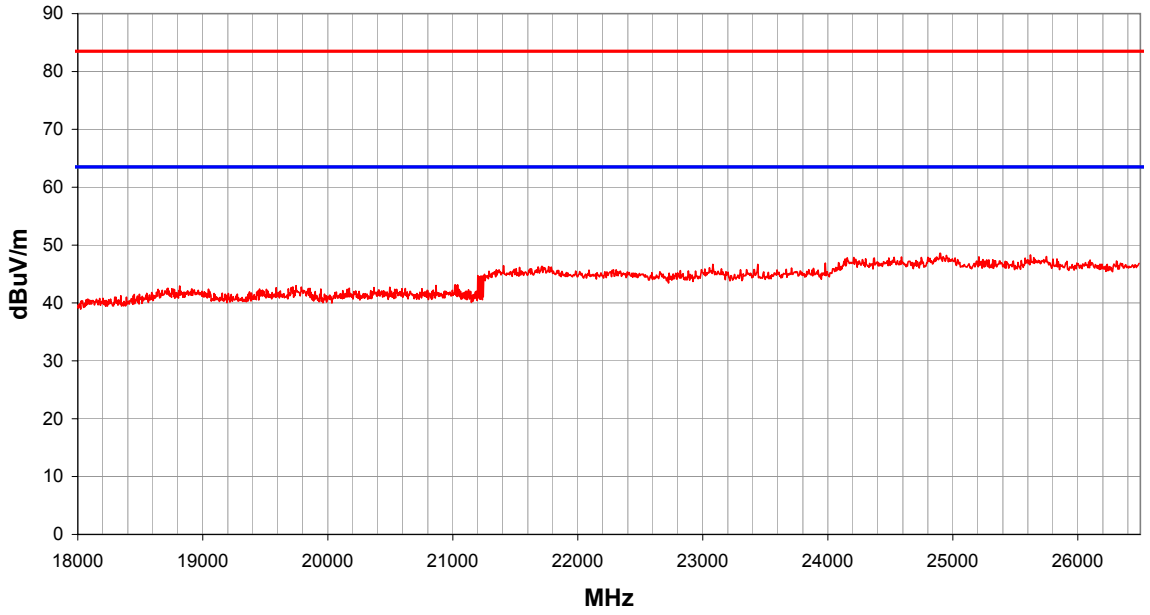
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 15 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24901.150 | 37.0 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | H | | 0.0 | 48.6 | 83.5 | -34.9 |
| 24895.860 | 37.0 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | V | | 0.0 | 48.6 | 83.5 | -34.9 |
| 25621.260 | 36.0 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 25208.260 | 36.1 | 36.1 | 0.0 | 40.5 | 7.5 | 0.0 | H | | 0.0 | 48.0 | 83.5 | -35.5 |
| 24588.750 | 36.6 | 36.3 | 0.0 | 40.4 | 7.3 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24207.520 | 36.8 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 25647.730 | 35.5 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.8 | 83.5 | -35.7 |
| 25833.060 | 35.1 | 35.6 | 0.0 | 40.5 | 7.7 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 26097.800 | 34.6 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.4 | 83.5 | -36.1 |
| 23979.830 | 36.0 | 36.4 | 0.0 | 40.4 | 6.9 | 0.0 | V | | 0.0 | 46.9 | 83.5 | -36.6 |
| 23079.700 | 36.0 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.7 | 83.5 | -36.8 |
| 23439.750 | 35.9 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 46.7 | 83.5 | -36.8 |
| 21406.500 | 35.5 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.5 | 83.5 | -37.0 |
| 21681.840 | 35.1 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23709.790 | 35.2 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23148.530 | 35.2 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 45.9 | 83.5 | -37.6 |
| 23413.280 | 35.0 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22285.460 | 34.6 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 22820.250 | 34.8 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 45.6 | 83.5 | -37.9 |
| 21200.000 | 33.9 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.7 | 83.5 | -38.8 |
| 21242.360 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.7 | 83.5 | -38.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

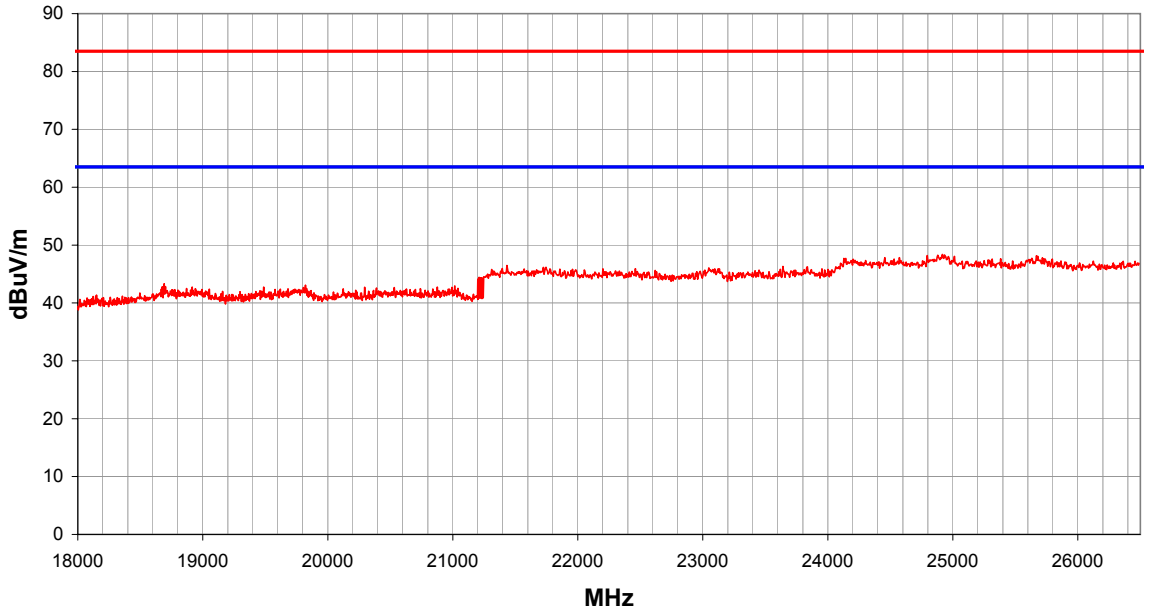
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 16 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24917.040 | 36.8 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24932.920 | 36.7 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.3 | 83.5 | -35.2 |
| 25668.910 | 35.8 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.2 | 83.5 | -35.3 |
| 25679.500 | 35.7 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 48.1 | 83.5 | -35.4 |
| 24456.380 | 36.6 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 24143.980 | 36.7 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 25382.990 | 35.6 | 36.0 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.7 | 83.5 | -35.8 |
| 21432.980 | 35.5 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.5 | 83.5 | -37.0 |
| 23640.960 | 35.5 | 36.3 | 0.0 | 40.4 | 6.7 | 0.0 | H | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23836.870 | 35.4 | 36.4 | 0.0 | 40.4 | 6.8 | 0.0 | H | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23047.930 | 35.4 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 21740.080 | 34.8 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 22460.190 | 34.9 | 36.0 | 0.0 | 40.3 | 6.7 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 22200.740 | 34.7 | 36.0 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 45.9 | 83.5 | -37.6 |
| 23095.580 | 35.2 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 22619.040 | 34.7 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 45.6 | 83.5 | -37.9 |
| 21210.590 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21242.360 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21226.470 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.3 | 83.5 | -39.2 |
| 21221.180 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.3 | 83.5 | -39.2 |
| 21242.360 | 33.4 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.3 | 83.5 | -39.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

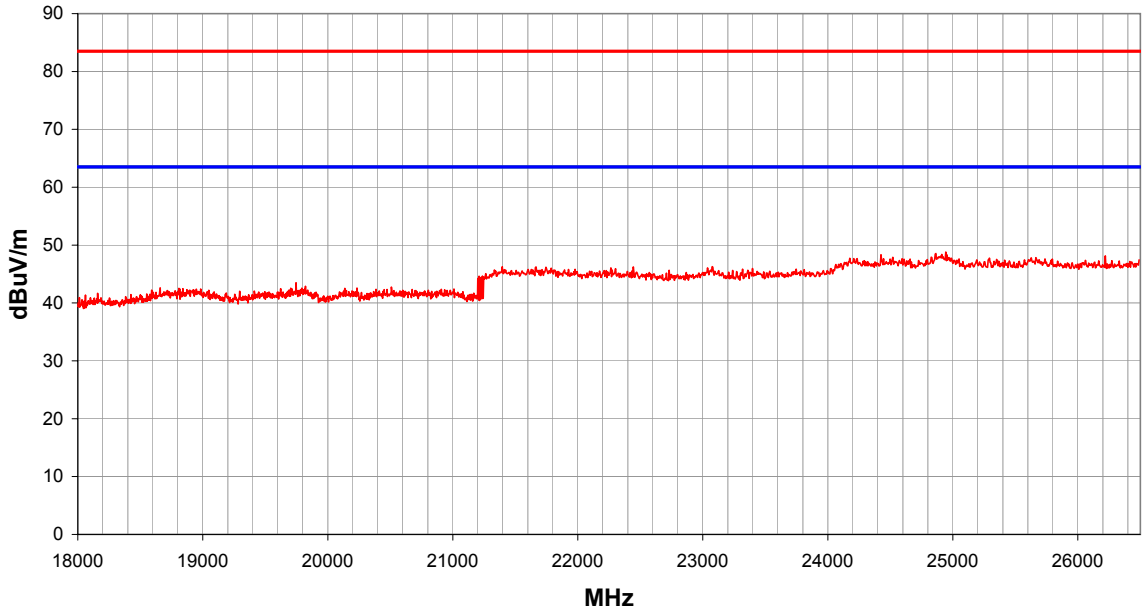
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 17 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24943.510 | 37.2 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.8 | 83.5 | -34.7 |
| 24864.090 | 37.0 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | V | | 0.0 | 48.5 | 83.5 | -35.0 |
| 24424.610 | 37.1 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 26219.590 | 35.2 | 35.3 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 48.1 | 83.5 | -35.4 |
| 25663.620 | 35.5 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.8 | 83.5 | -35.7 |
| 25626.550 | 35.5 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 24175.750 | 36.7 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 23074.400 | 35.6 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 21395.910 | 35.3 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.3 | 83.5 | -37.2 |
| 22444.310 | 35.2 | 36.0 | 0.0 | 40.3 | 6.7 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23079.700 | 35.5 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21745.380 | 35.0 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23397.390 | 35.2 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 22730.230 | 34.8 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 45.6 | 83.5 | -37.9 |
| 21237.060 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.7 | 83.5 | -38.8 |
| 21210.590 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.6 | 83.5 | -38.9 |
| 21231.770 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21226.470 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21242.360 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21231.770 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.3 | 83.5 | -39.2 |
| 21205.290 | 33.4 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.2 | 83.5 | -39.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

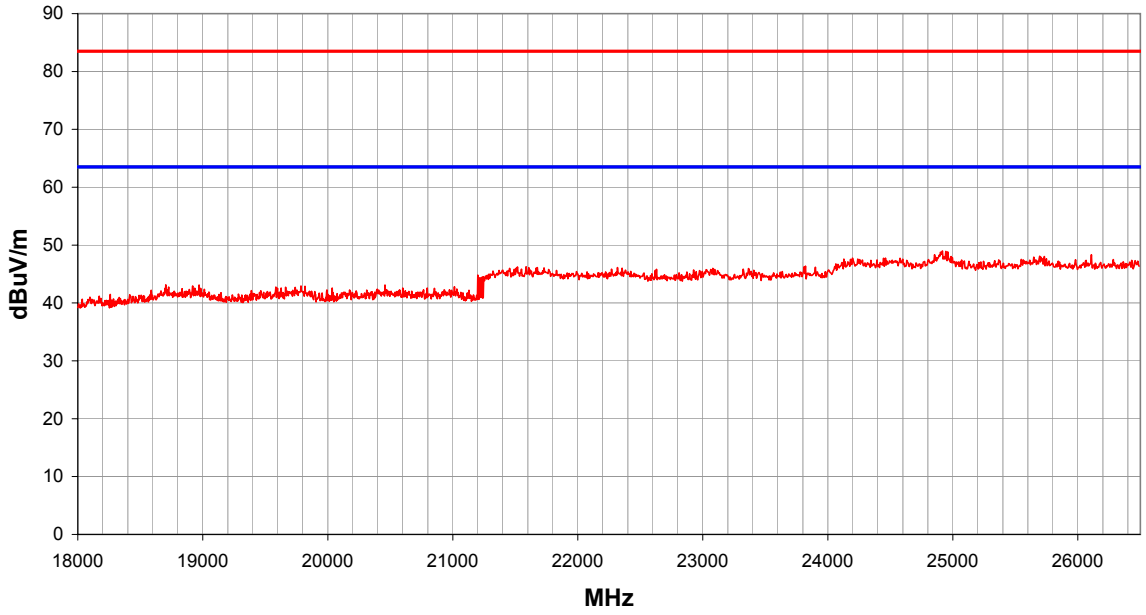
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 18 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24917.040 | 37.4 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 49.0 | 83.5 | -34.5 |
| 24943.510 | 37.3 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.9 | 83.5 | -34.6 |
| 24911.740 | 37.0 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | H | | 0.0 | 48.6 | 83.5 | -34.9 |
| 26108.390 | 35.5 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 25695.390 | 35.7 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 48.1 | 83.5 | -35.4 |
| 25732.450 | 35.6 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.0 | 83.5 | -35.5 |
| 24196.930 | 36.7 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 24461.670 | 36.5 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.7 | 83.5 | -35.8 |
| 26283.130 | 34.5 | 35.3 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 25981.310 | 34.8 | 35.5 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 23820.990 | 35.5 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 21586.530 | 35.2 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 21517.700 | 35.2 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23900.410 | 35.3 | 36.4 | 0.0 | 40.4 | 6.9 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 22317.230 | 35.0 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 23079.700 | 35.3 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23365.620 | 35.2 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23323.260 | 35.1 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22629.630 | 34.9 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 23084.990 | 35.1 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22926.140 | 35.0 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

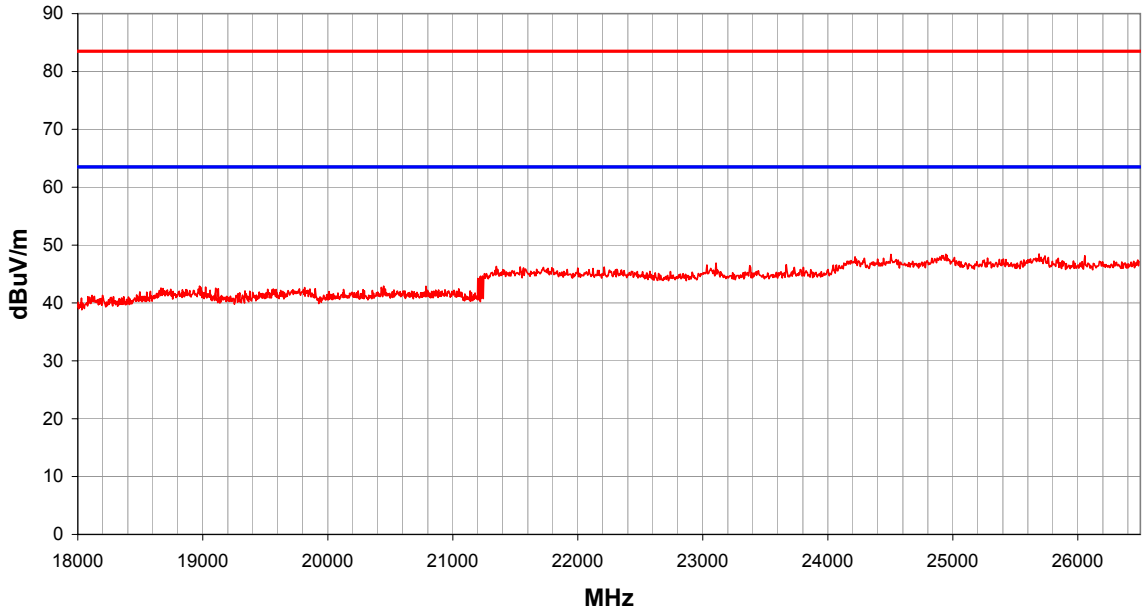
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 19 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25690.090 | 36.1 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 48.5 | 83.5 | -35.0 |
| 24943.510 | 36.8 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24504.030 | 37.1 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 48.4 | 83.5 | -35.1 |
| 25690.090 | 36.0 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.4 | 83.5 | -35.1 |
| 26055.440 | 35.4 | 35.5 | 0.0 | 40.5 | 7.7 | 0.0 | H | | 0.0 | 48.2 | 83.5 | -35.3 |
| 24218.110 | 36.9 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | V | | 0.0 | 48.0 | 83.5 | -35.5 |
| 25277.090 | 35.8 | 36.1 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 23106.170 | 36.2 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | V | | 0.0 | 46.9 | 83.5 | -36.6 |
| 23667.430 | 35.8 | 36.3 | 0.0 | 40.4 | 6.7 | 0.0 | V | | 0.0 | 46.6 | 83.5 | -36.9 |
| 23032.040 | 35.9 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.6 | 83.5 | -36.9 |
| 23376.210 | 35.7 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 46.5 | 83.5 | -37.0 |
| 21348.260 | 35.4 | 36.3 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 21538.880 | 35.2 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 22211.330 | 35.0 | 36.0 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21724.200 | 35.0 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23381.510 | 35.4 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23805.100 | 35.3 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 23730.970 | 35.3 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 23116.760 | 35.0 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 21237.060 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.7 | 83.5 | -38.8 |
| 21221.180 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.6 | 83.5 | -38.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

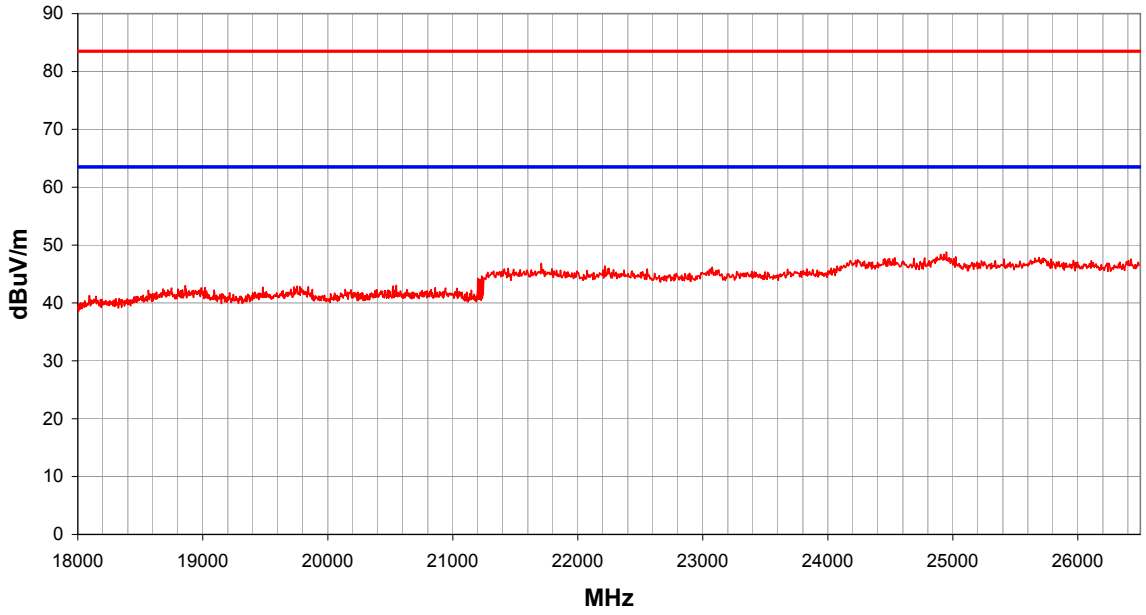
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 20 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24948.800 | 37.2 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.8 | 83.5 | -34.7 |
| 24927.630 | 36.8 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 25022.930 | 36.3 | 36.3 | 0.0 | 40.5 | 7.5 | 0.0 | H | | 0.0 | 48.0 | 83.5 | -35.5 |
| 25690.090 | 35.5 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24535.800 | 36.5 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 25658.320 | 35.4 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.7 | 83.5 | -35.8 |
| 26426.090 | 34.4 | 35.2 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 24482.850 | 36.3 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 24239.290 | 36.4 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26108.390 | 34.5 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.3 | 83.5 | -36.2 |
| 21708.310 | 35.7 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.8 | 83.5 | -36.7 |
| 22216.630 | 35.2 | 36.0 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23074.400 | 35.5 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21443.570 | 35.0 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 22237.800 | 34.7 | 36.0 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 45.9 | 83.5 | -37.6 |
| 22555.500 | 34.9 | 36.1 | 0.0 | 40.4 | 6.7 | 0.0 | H | | 0.0 | 45.9 | 83.5 | -37.6 |
| 23053.220 | 35.1 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 21231.770 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.6 | 83.5 | -38.9 |
| 21200.000 | 33.4 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.2 | 83.5 | -39.3 |
| 21221.180 | 33.2 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.0 | 83.5 | -39.5 |
| 21215.880 | 33.2 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.0 | 83.5 | -39.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

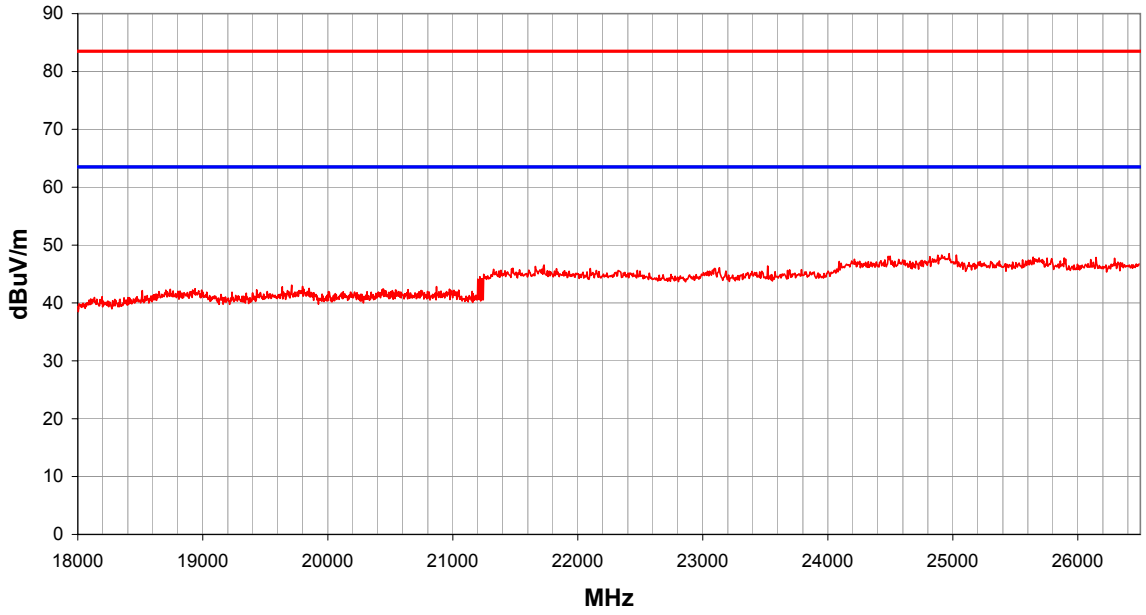
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 21 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24969.980 | 36.9 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.5 | 83.5 | -35.0 |
| 24911.740 | 36.7 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 25028.230 | 36.6 | 36.3 | 0.0 | 40.5 | 7.5 | 0.0 | H | | 0.0 | 48.3 | 83.5 | -35.2 |
| 24498.740 | 36.8 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 48.1 | 83.5 | -35.4 |
| 25642.440 | 35.6 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.9 | 83.5 | -35.6 |
| 26145.460 | 35.0 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 25891.300 | 35.2 | 35.6 | 0.0 | 40.5 | 7.7 | 0.0 | H | | 0.0 | 47.8 | 83.5 | -35.7 |
| 25690.090 | 35.4 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.8 | 83.5 | -35.7 |
| 26293.710 | 34.7 | 35.3 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 47.7 | 83.5 | -35.8 |
| 25901.890 | 35.0 | 35.6 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.6 | 83.5 | -35.9 |
| 21729.490 | 35.4 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.6 | 83.5 | -36.9 |
| 23519.180 | 35.6 | 36.3 | 0.0 | 40.4 | 6.7 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23132.650 | 35.4 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 21480.630 | 35.0 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23095.580 | 35.3 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 22100.140 | 34.7 | 36.0 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 21215.880 | 33.7 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.5 | 83.5 | -39.0 |
| 21237.060 | 33.3 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.2 | 83.5 | -39.3 |
| 21231.770 | 33.3 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.1 | 83.5 | -39.4 |
| 21231.770 | 33.3 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.1 | 83.5 | -39.4 |
| 21226.470 | 33.3 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.1 | 83.5 | -39.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

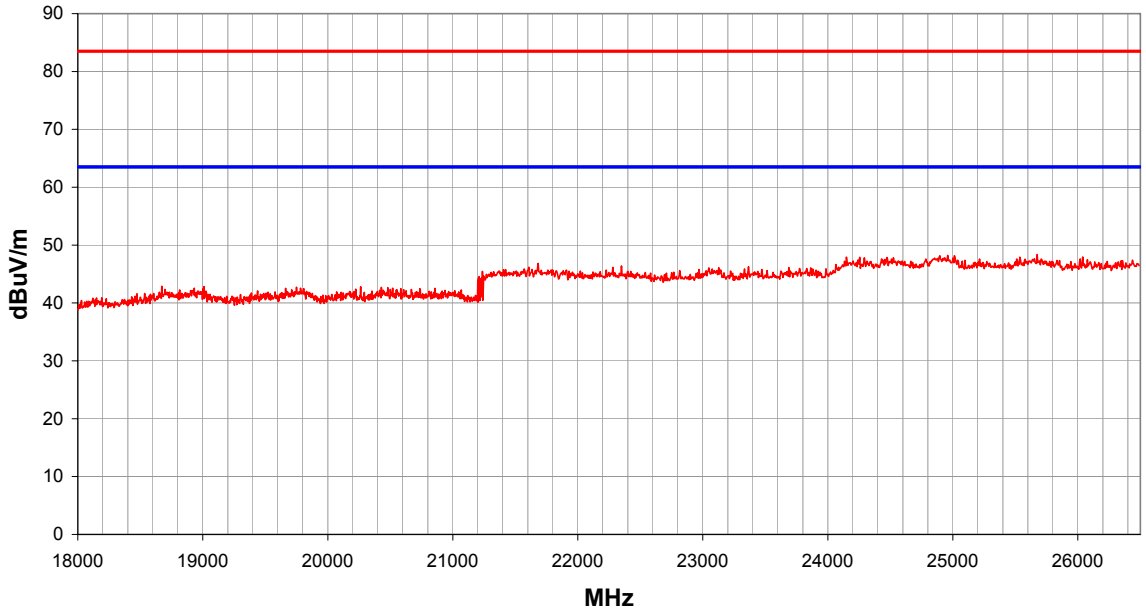
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 22 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25674.210 | 36.0 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24959.390 | 36.6 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.2 | 83.5 | -35.3 |
| 24890.560 | 36.4 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | H | | 0.0 | 48.0 | 83.5 | -35.5 |
| 26039.560 | 35.2 | 35.5 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.9 | 83.5 | -35.6 |
| 25536.540 | 35.7 | 35.9 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24149.270 | 36.9 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | V | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24255.170 | 36.8 | 36.4 | 0.0 | 40.4 | 7.1 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24472.260 | 36.6 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24525.210 | 36.5 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 26018.380 | 34.9 | 35.5 | 0.0 | 40.5 | 7.7 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 26436.680 | 34.2 | 35.2 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.4 | 83.5 | -36.1 |
| 21681.840 | 35.7 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.8 | 83.5 | -36.7 |
| 22349.000 | 35.3 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23365.620 | 35.5 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23127.350 | 35.4 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 23074.400 | 35.2 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 23333.850 | 35.1 | 36.2 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 21237.060 | 34.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 45.5 | 83.5 | -38.0 |
| 21210.590 | 33.7 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.5 | 83.5 | -39.0 |
| 21231.770 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21205.290 | 33.5 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.3 | 83.5 | -39.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

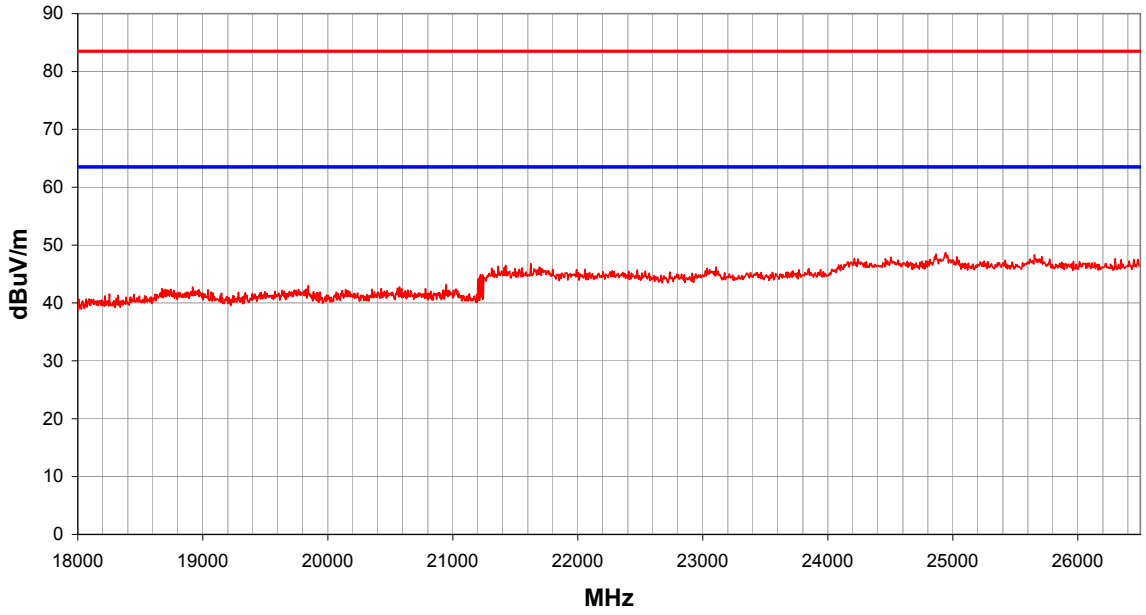
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 23 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24943.510 | 37.1 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.7 | 83.5 | -34.8 |
| 24938.210 | 37.0 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.6 | 83.5 | -34.9 |
| 25653.030 | 36.0 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 24504.030 | 36.6 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24461.670 | 36.4 | 36.4 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.6 | 83.5 | -35.9 |
| 26299.010 | 34.6 | 35.3 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.6 | 83.5 | -35.9 |
| 25690.090 | 35.2 | 35.7 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 26479.040 | 34.3 | 35.1 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26447.270 | 34.3 | 35.1 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26346.660 | 34.3 | 35.2 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 47.4 | 83.5 | -36.1 |
| 21623.590 | 35.7 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.8 | 83.5 | -36.7 |
| 21422.390 | 35.5 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.5 | 83.5 | -37.0 |
| 21364.140 | 35.4 | 36.3 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23106.170 | 35.5 | 36.1 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21692.430 | 35.0 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 23032.040 | 35.3 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23847.460 | 35.1 | 36.4 | 0.0 | 40.4 | 6.8 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 22057.780 | 34.5 | 36.0 | 0.0 | 40.3 | 7.0 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22476.080 | 34.7 | 36.0 | 0.0 | 40.3 | 6.7 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 22735.530 | 34.5 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | H | | 0.0 | 45.3 | 83.5 | -38.2 |
| 21221.180 | 34.1 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 44.9 | 83.5 | -38.6 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

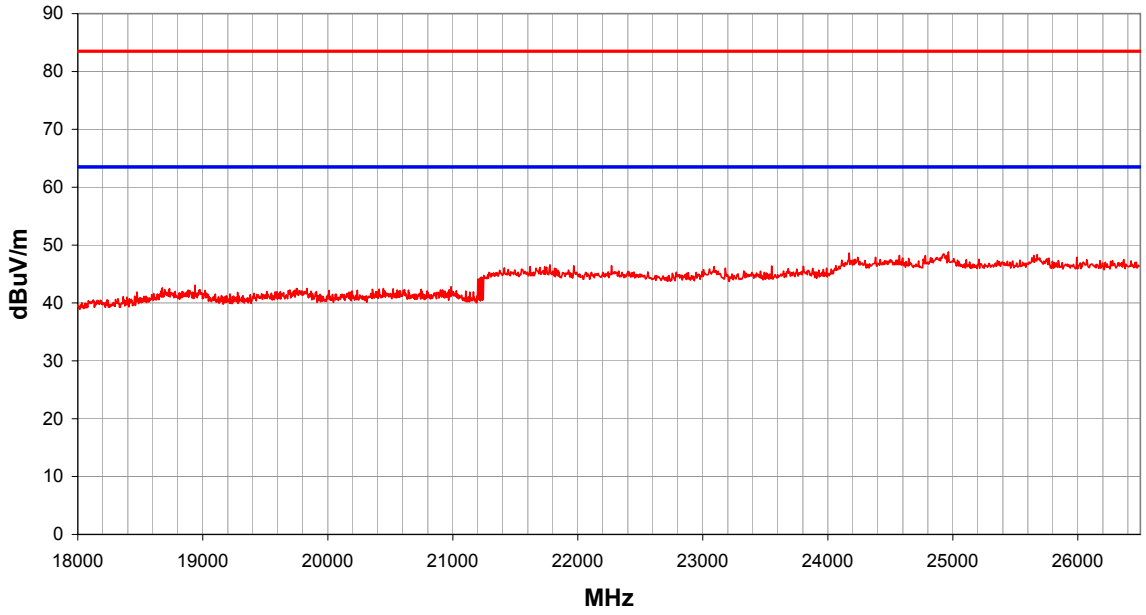
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 24 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24964.690 | 37.2 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.8 | 83.5 | -34.7 |
| 24170.450 | 37.6 | 36.4 | 0.0 | 40.4 | 7.0 | 0.0 | H | | 0.0 | 48.6 | 83.5 | -34.9 |
| 25674.210 | 36.0 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24572.870 | 36.9 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 48.2 | 83.5 | -35.3 |
| 24779.370 | 36.7 | 36.3 | 0.0 | 40.4 | 7.4 | 0.0 | V | | 0.0 | 48.2 | 83.5 | -35.3 |
| 25991.900 | 35.2 | 35.5 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.9 | 83.5 | -35.6 |
| 24382.250 | 36.7 | 36.4 | 0.0 | 40.4 | 7.1 | 0.0 | H | | 0.0 | 47.9 | 83.5 | -35.6 |
| 25631.850 | 35.5 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 24599.340 | 36.4 | 36.3 | 0.0 | 40.4 | 7.3 | 0.0 | V | | 0.0 | 47.7 | 83.5 | -35.8 |
| 26367.840 | 34.4 | 35.2 | 0.0 | 40.5 | 7.8 | 0.0 | H | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26071.330 | 34.7 | 35.4 | 0.0 | 40.5 | 7.7 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 21777.150 | 35.4 | 36.1 | 0.0 | 40.3 | 7.0 | 0.0 | H | | 0.0 | 46.6 | 83.5 | -36.9 |
| 22269.570 | 35.3 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 46.5 | 83.5 | -37.0 |
| 21967.760 | 35.1 | 36.0 | 0.0 | 40.3 | 7.0 | 0.0 | V | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23550.950 | 35.6 | 36.3 | 0.0 | 40.4 | 6.7 | 0.0 | V | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23805.100 | 35.5 | 36.3 | 0.0 | 40.4 | 6.8 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 21618.300 | 35.2 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23090.290 | 35.6 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 23180.300 | 35.3 | 36.2 | 0.0 | 40.4 | 6.5 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 21231.770 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.4 | 83.5 | -39.1 |
| 21226.470 | 33.6 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.4 | 83.5 | -39.1 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

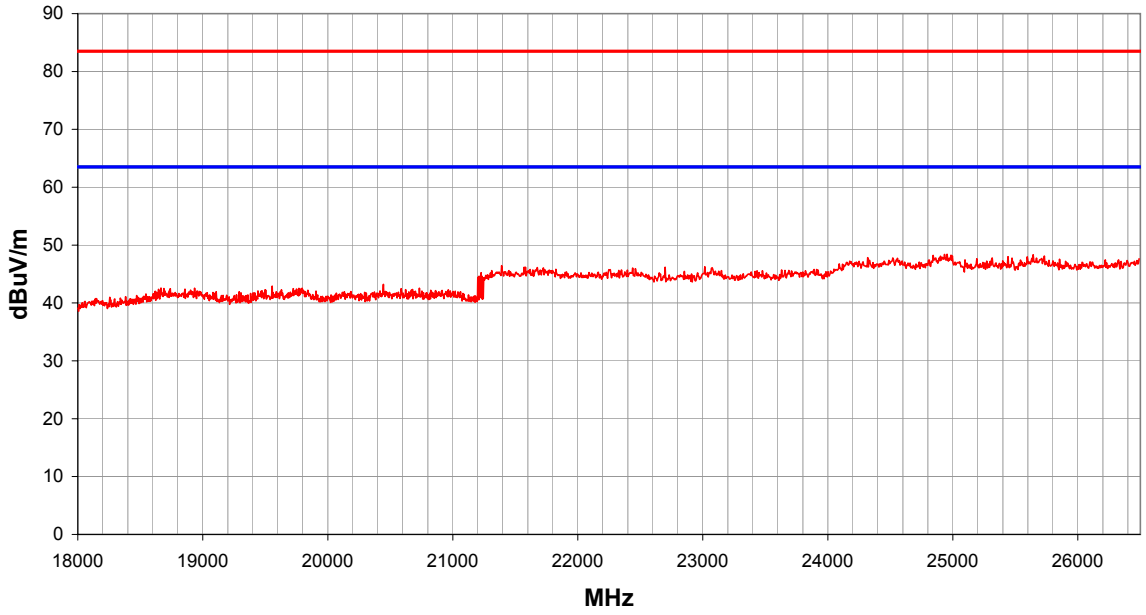
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 25 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24954.100 | 36.8 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | H | | 0.0 | 48.4 | 83.5 | -35.1 |
| 24932.920 | 36.8 | 36.3 | 0.0 | 40.4 | 7.5 | 0.0 | V | | 0.0 | 48.4 | 83.5 | -35.1 |
| 25642.440 | 36.0 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |
| 25441.230 | 35.9 | 35.9 | 0.0 | 40.5 | 7.6 | 0.0 | V | | 0.0 | 48.0 | 83.5 | -35.5 |
| 24318.710 | 36.7 | 36.4 | 0.0 | 40.4 | 7.1 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 24519.920 | 36.5 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | V | | 0.0 | 47.8 | 83.5 | -35.7 |
| 25668.910 | 35.4 | 35.8 | 0.0 | 40.5 | 7.6 | 0.0 | H | | 0.0 | 47.8 | 83.5 | -35.7 |
| 26489.630 | 34.4 | 35.1 | 0.0 | 40.5 | 7.9 | 0.0 | H | | 0.0 | 47.6 | 83.5 | -35.9 |
| 24525.210 | 36.2 | 36.3 | 0.0 | 40.4 | 7.2 | 0.0 | H | | 0.0 | 47.5 | 83.5 | -36.0 |
| 26325.480 | 34.4 | 35.2 | 0.0 | 40.5 | 7.8 | 0.0 | V | | 0.0 | 47.5 | 83.5 | -36.0 |
| 21390.620 | 35.5 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | V | | 0.0 | 46.4 | 83.5 | -37.1 |
| 23016.160 | 35.6 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 22698.460 | 35.3 | 36.1 | 0.0 | 40.4 | 6.6 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21570.640 | 35.1 | 36.2 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.2 | 83.5 | -37.3 |
| 21676.540 | 35.0 | 36.1 | 0.0 | 40.3 | 6.9 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 22439.010 | 35.0 | 36.0 | 0.0 | 40.3 | 6.7 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 23911.000 | 34.9 | 36.4 | 0.0 | 40.4 | 6.9 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 22258.980 | 34.6 | 36.0 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 45.8 | 83.5 | -37.7 |
| 23069.110 | 34.8 | 36.1 | 0.0 | 40.4 | 6.4 | 0.0 | H | | 0.0 | 45.5 | 83.5 | -38.0 |
| 21226.470 | 34.4 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | H | | 0.0 | 45.2 | 83.5 | -38.3 |
| 21231.770 | 33.8 | 36.3 | 0.0 | 40.3 | 6.8 | 0.0 | V | | 0.0 | 44.6 | 83.5 | -38.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/12/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

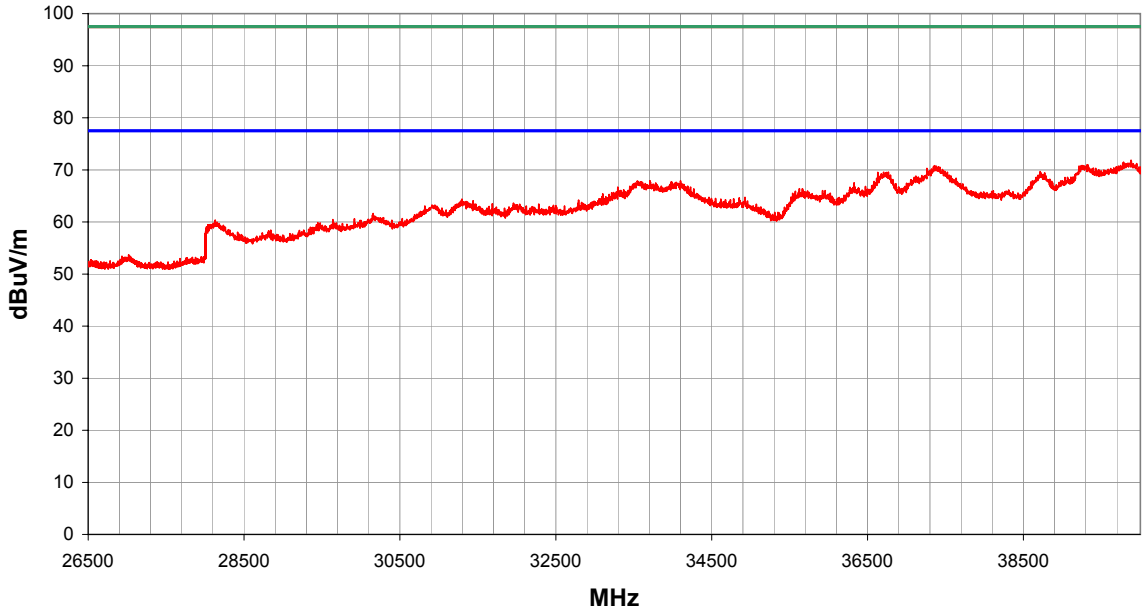
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 26 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39881.480 | 43.7 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 71.9 | 97.5 | -25.6 |
| 39884.490 | 43.4 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.6 | 97.5 | -25.9 |
| 39325.040 | 43.3 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.0 | 97.5 | -26.5 |
| 39319.020 | 43.3 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.0 | 97.5 | -26.5 |
| 37357.930 | 45.1 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.8 | 97.5 | -26.7 |
| 37378.980 | 45.0 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.8 | 97.5 | -26.7 |
| 38714.450 | 42.5 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 36767.190 | 44.5 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.6 | 97.5 | -27.9 |
| 36707.030 | 44.5 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.6 | 97.5 | -27.9 |
| 36631.840 | 44.5 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.5 | 97.5 | -28.0 |
| 38720.470 | 42.3 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.5 | 97.5 | -28.0 |
| 33707.030 | 43.2 | 28.9 | 0.0 | 43.6 | 10.1 | 0.0 | H | | 0.0 | 67.9 | 97.5 | -29.6 |
| 34099.260 | 42.9 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 67.9 | 97.5 | -29.6 |
| 33544.610 | 43.3 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 33992.770 | 42.6 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 36328.050 | 42.7 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.5 | 97.5 | -30.0 |
| 36328.050 | 42.3 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.1 | 97.5 | -30.4 |
| 33294.960 | 42.4 | 29.2 | 0.0 | 43.6 | 9.9 | 0.0 | H | | 0.0 | 66.7 | 97.5 | -30.8 |
| 35624.220 | 41.7 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.4 | 97.5 | -31.1 |
| 35921.990 | 41.4 | 29.8 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.0 | 97.5 | -31.5 |
| 35729.490 | 41.3 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 66.0 | 97.5 | -31.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

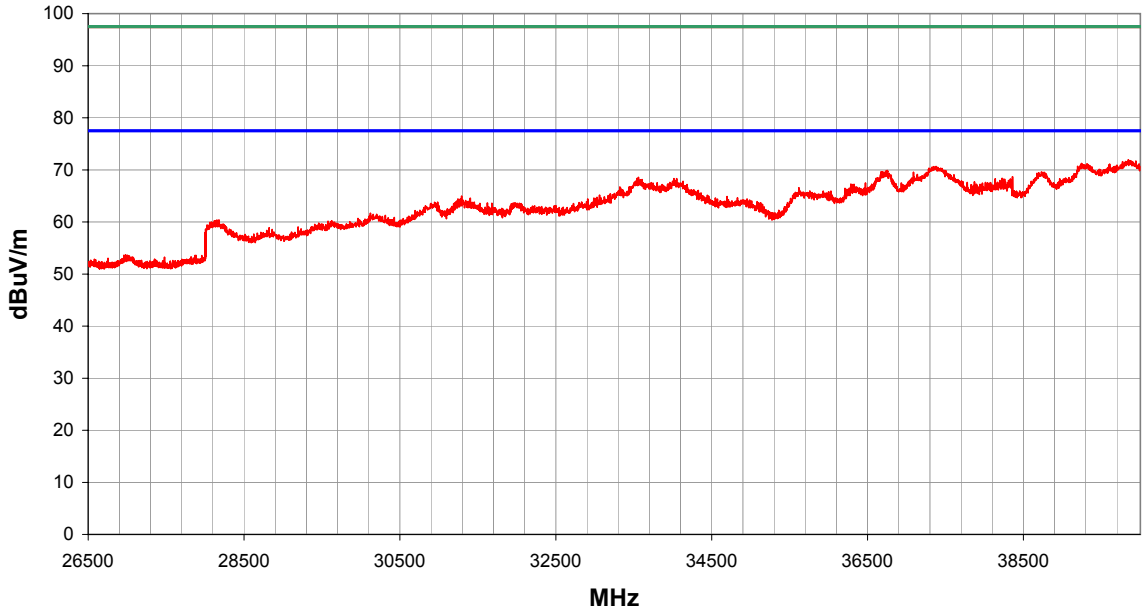
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 27 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39846.290 | 43.8 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 71.9 | 97.5 | -25.6 |
| 39882.240 | 43.5 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.7 | 97.5 | -25.8 |
| 39247.070 | 43.6 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.2 | 97.5 | -26.3 |
| 39241.080 | 43.3 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 70.9 | 97.5 | -26.6 |
| 37377.510 | 44.9 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.7 | 97.5 | -26.8 |
| 37350.540 | 44.9 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.6 | 97.5 | -26.9 |
| 36752.150 | 44.8 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.9 | 97.5 | -27.6 |
| 36758.160 | 44.7 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.8 | 97.5 | -27.7 |
| 38731.740 | 42.4 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.6 | 97.5 | -27.9 |
| 37089.880 | 44.2 | 29.4 | 0.0 | 43.7 | 11.1 | 0.0 | H | | 0.0 | 69.6 | 97.5 | -27.9 |
| 38752.710 | 42.3 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.5 | 97.5 | -28.0 |
| 38360.230 | 41.8 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 68.7 | 97.5 | -28.8 |
| 33559.650 | 44.0 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 68.6 | 97.5 | -28.9 |
| 38225.400 | 41.6 | 28.4 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 68.4 | 97.5 | -29.1 |
| 33541.600 | 43.8 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.4 | 97.5 | -29.1 |
| 34015.040 | 43.3 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 38138.520 | 41.6 | 28.4 | 0.0 | 43.7 | 11.4 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 38333.260 | 41.4 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 34030.080 | 42.9 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 37871.860 | 41.3 | 28.6 | 0.0 | 43.7 | 11.3 | 0.0 | H | | 0.0 | 67.7 | 97.5 | -29.8 |
| 36472.420 | 42.6 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.5 | 97.5 | -30.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

low channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

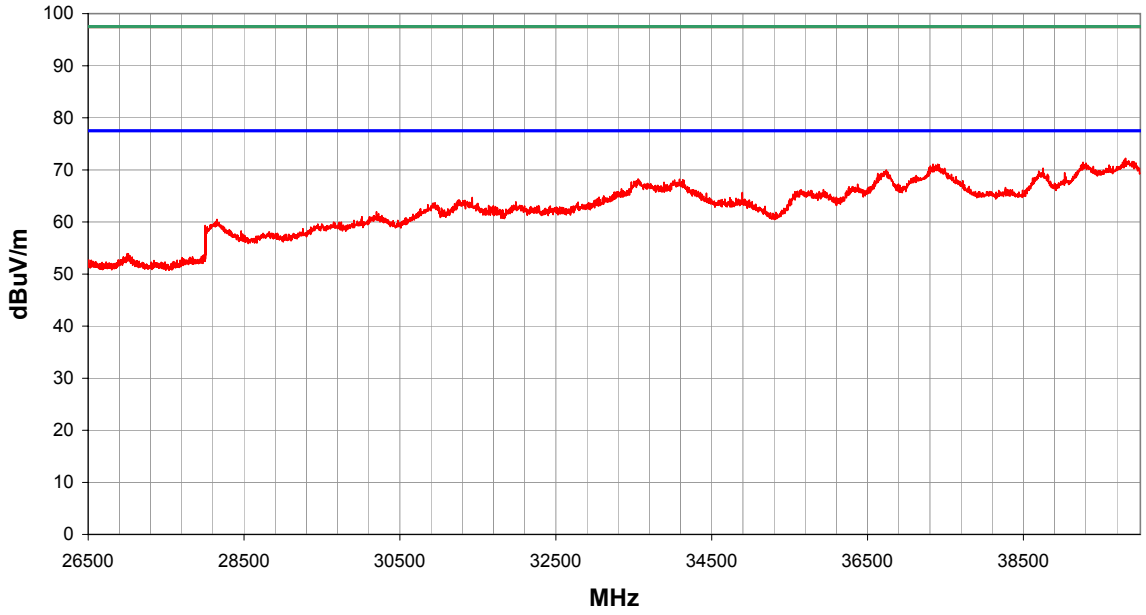
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 28 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39810.340 | 44.1 | 27.6 | 0.0 | 43.8 | 11.9 | 0.0 | H | | 0.0 | 72.2 | 97.5 | -25.3 |
| 39849.290 | 43.6 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.7 | 97.5 | -25.8 |
| 39265.050 | 43.8 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.4 | 97.5 | -26.1 |
| 39301.000 | 43.6 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.3 | 97.5 | -26.2 |
| 37338.560 | 45.4 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 71.1 | 97.5 | -26.4 |
| 37401.480 | 45.3 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 71.1 | 97.5 | -26.4 |
| 38752.710 | 43.1 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 70.3 | 97.5 | -27.2 |
| 36740.120 | 44.9 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.0 | 97.5 | -27.5 |
| 38695.790 | 42.6 | 28.2 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.8 | 97.5 | -27.7 |
| 36752.150 | 44.6 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 39028.360 | 42.0 | 28.0 | 0.0 | 43.7 | 11.7 | 0.0 | V | | 0.0 | 69.5 | 97.5 | -28.0 |
| 33556.640 | 43.7 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 34087.230 | 43.2 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.2 | 97.5 | -29.3 |
| 34024.060 | 43.0 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.0 | 97.5 | -29.5 |
| 33469.410 | 43.2 | 29.1 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.7 | 97.5 | -29.8 |
| 33565.660 | 43.1 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.7 | 97.5 | -29.8 |
| 36373.160 | 42.4 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36261.880 | 42.0 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 66.8 | 97.5 | -30.7 |
| 38270.340 | 39.8 | 28.4 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 66.6 | 97.5 | -30.9 |
| 35934.020 | 41.6 | 29.8 | 0.0 | 43.6 | 10.8 | 0.0 | H | | 0.0 | 66.2 | 97.5 | -31.3 |
| 35648.280 | 41.5 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.2 | 97.5 | -31.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

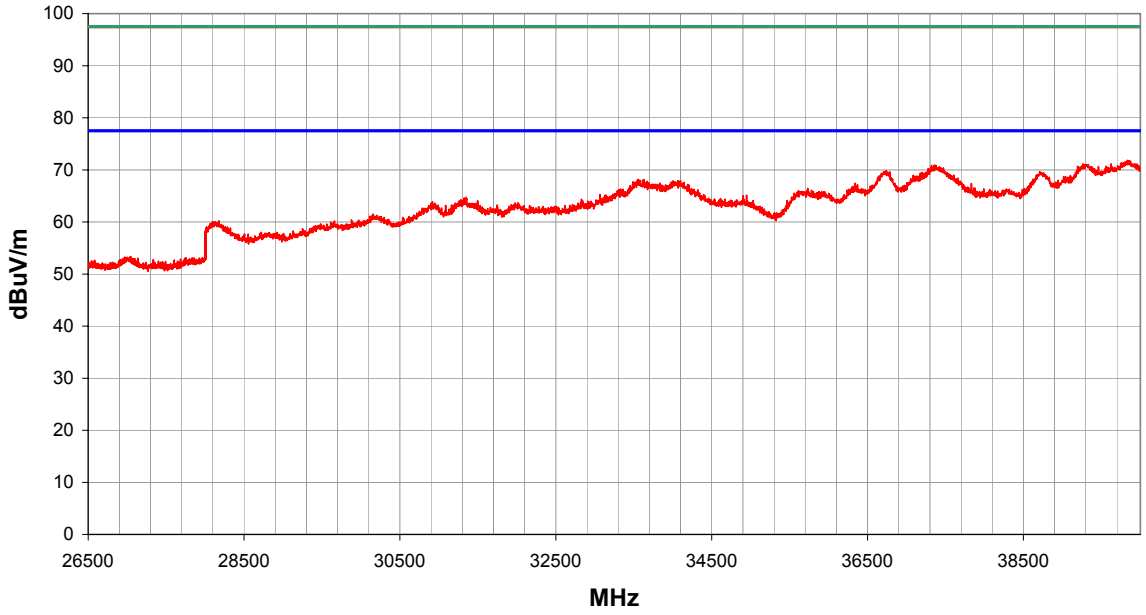
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 29 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39834.300 | 43.7 | 27.6 | 0.0 | 43.8 | 11.9 | 0.0 | H | | 0.0 | 71.8 | 97.5 | -25.7 |
| 39855.280 | 43.5 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.6 | 97.5 | -25.9 |
| 39265.050 | 43.5 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.1 | 97.5 | -26.4 |
| 39262.050 | 43.4 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.0 | 97.5 | -26.5 |
| 37362.530 | 45.2 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.9 | 97.5 | -26.6 |
| 37320.580 | 45.2 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.9 | 97.5 | -26.6 |
| 36737.110 | 44.8 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.9 | 97.5 | -27.6 |
| 38707.770 | 42.5 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 36731.090 | 44.6 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 38731.740 | 42.3 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.5 | 97.5 | -28.0 |
| 33553.630 | 43.6 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.2 | 97.5 | -29.3 |
| 33613.790 | 43.4 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 68.0 | 97.5 | -29.5 |
| 34066.170 | 42.9 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 33998.790 | 42.8 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 67.8 | 97.5 | -29.7 |
| 33839.380 | 42.6 | 28.8 | 0.0 | 43.6 | 10.1 | 0.0 | V | | 0.0 | 67.5 | 97.5 | -30.0 |
| 36340.080 | 42.6 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.4 | 97.5 | -30.1 |
| 37832.910 | 41.0 | 28.7 | 0.0 | 43.7 | 11.3 | 0.0 | V | | 0.0 | 67.4 | 97.5 | -30.1 |
| 35732.500 | 41.8 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.5 | 97.5 | -31.0 |
| 35651.290 | 41.2 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 65.9 | 97.5 | -31.6 |
| 33066.370 | 41.2 | 29.4 | 0.0 | 43.6 | 9.9 | 0.0 | V | | 0.0 | 65.3 | 97.5 | -32.2 |
| 34947.460 | 40.3 | 29.2 | 0.0 | 43.6 | 10.4 | 0.0 | H | | 0.0 | 65.1 | 97.5 | -32.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

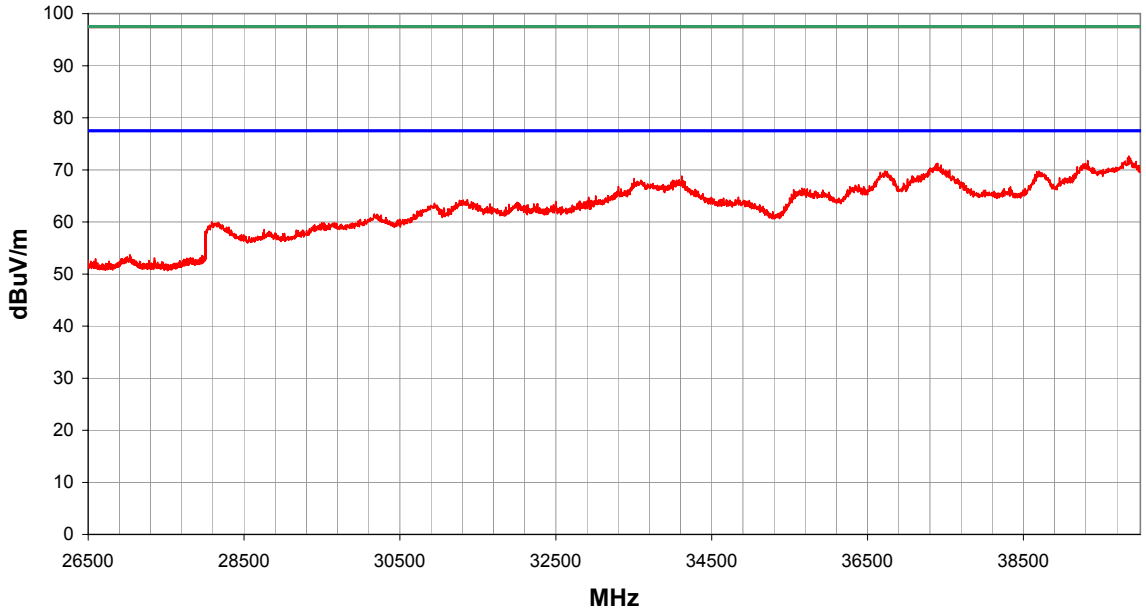
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 30 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39852.280 | 44.5 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 72.6 | 97.5 | -24.9 |
| 39873.250 | 44.1 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 72.3 | 97.5 | -25.2 |
| 39324.970 | 44.1 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.8 | 97.5 | -25.7 |
| 37398.480 | 45.5 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 71.3 | 97.5 | -26.2 |
| 39292.010 | 43.5 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.2 | 97.5 | -26.3 |
| 37443.420 | 45.1 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.9 | 97.5 | -26.6 |
| 38698.790 | 42.6 | 28.2 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.8 | 97.5 | -27.7 |
| 36725.080 | 44.7 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.8 | 97.5 | -27.7 |
| 38671.820 | 42.5 | 28.2 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.7 | 97.5 | -27.8 |
| 36737.110 | 44.5 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.6 | 97.5 | -27.9 |
| 34117.300 | 43.8 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.8 | 97.5 | -28.7 |
| 33505.510 | 43.8 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 68.3 | 97.5 | -29.2 |
| 33998.790 | 43.0 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.0 | 97.5 | -29.5 |
| 33592.730 | 43.4 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.0 | 97.5 | -29.5 |
| 36385.200 | 42.3 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36343.090 | 42.2 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.0 | 97.5 | -30.5 |
| 33303.980 | 42.5 | 29.2 | 0.0 | 43.6 | 9.9 | 0.0 | V | | 0.0 | 66.8 | 97.5 | -30.7 |
| 38333.260 | 39.9 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 66.8 | 97.5 | -30.7 |
| 35660.310 | 41.8 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 66.5 | 97.5 | -31.0 |
| 38315.290 | 39.6 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.5 | 97.5 | -31.0 |
| 35693.400 | 41.5 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.2 | 97.5 | -31.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

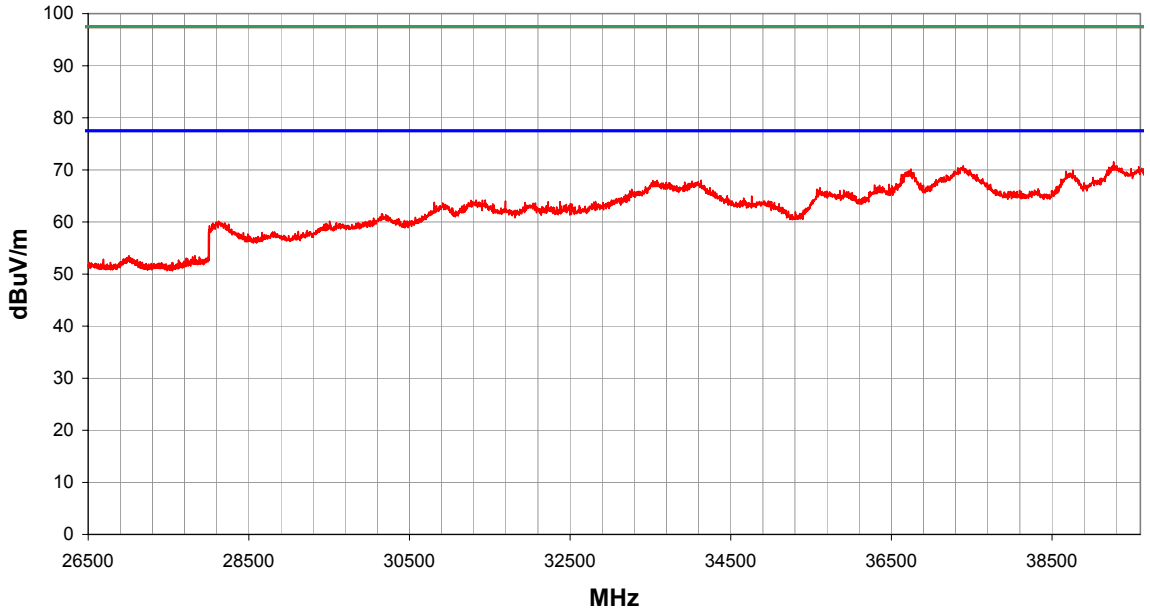
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 31 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39879.250 | 43.9 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 72.1 | 97.5 | -25.4 |
| 39816.330 | 43.7 | 27.6 | 0.0 | 43.8 | 11.9 | 0.0 | H | | 0.0 | 71.8 | 97.5 | -25.7 |
| 39268.040 | 43.9 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.6 | 97.5 | -25.9 |
| 39277.030 | 43.2 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.9 | 97.5 | -26.6 |
| 37395.480 | 45.0 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.8 | 97.5 | -26.7 |
| 37326.570 | 44.7 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.4 | 97.5 | -27.1 |
| 36743.130 | 45.1 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.2 | 97.5 | -27.3 |
| 38758.710 | 42.7 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.9 | 97.5 | -27.6 |
| 38671.820 | 42.6 | 28.2 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.8 | 97.5 | -27.7 |
| 36719.060 | 44.3 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.4 | 97.5 | -28.1 |
| 39010.380 | 41.1 | 28.0 | 0.0 | 43.7 | 11.7 | 0.0 | V | | 0.0 | 68.5 | 97.5 | -29.0 |
| 34132.340 | 43.0 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.0 | 97.5 | -29.5 |
| 33583.710 | 43.4 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.0 | 97.5 | -29.5 |
| 34096.250 | 42.7 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.7 | 97.5 | -29.8 |
| 33577.700 | 43.1 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.7 | 97.5 | -29.8 |
| 36472.420 | 42.3 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36505.510 | 42.0 | 29.6 | 0.0 | 43.7 | 10.9 | 0.0 | V | | 0.0 | 66.9 | 97.5 | -30.6 |
| 35612.190 | 41.9 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 66.6 | 97.5 | -30.9 |
| 38327.270 | 39.5 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.4 | 97.5 | -31.1 |
| 35573.090 | 41.6 | 29.6 | 0.0 | 43.6 | 10.6 | 0.0 | V | | 0.0 | 66.3 | 97.5 | -31.2 |
| 33267.890 | 42.0 | 29.2 | 0.0 | 43.6 | 9.9 | 0.0 | V | | 0.0 | 66.3 | 97.5 | -31.2 |

NORTHWEST
**EMC**

# RADIATED EMISSIONS DATA SHEET

REV
df2.05
07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| **EUT:** | WN-5MP01 | | | **Work Order:** | INMC0024 |
| **Serial Number:** | | | | **Date:** | 8/13/02 |
| **Customer:** | INTERMEC Corporation | | | **Temperature:** | 77 |
| **Attendees:** | None | | | **Humidity:** | 37% |
| **Cust. Ref. No.:** | | | | **Barometric Pressure** | 30.11 |
| **Tested by:** | Greg Kiemel | **Power:** | DC from E-net | **Job Site:** | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| **Specification:** | FCC 15.209 | **Year:** | Current 47CFR |
| **Method:** | ANSI C63.4 | **Year:** | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

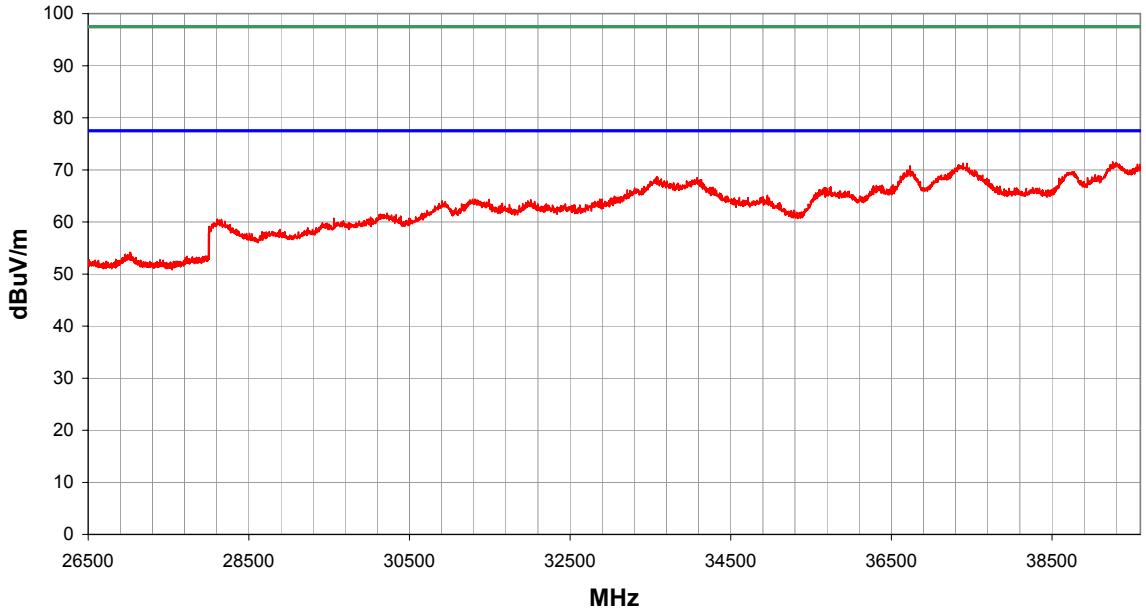
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| **RESULTS** | **Test Distance (m)** | **Run #** |
|---|---|---|
| Evaluation | 0.2 | 32 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39822.320 | 44.0 | 27.6 | 0.0 | 43.8 | 11.9 | 0.0 | H | | 0.0 | 72.1 | 97.5 | -25.4 |
| 39870.260 | 43.9 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 72.1 | 97.5 | -25.4 |
| 39256.060 | 43.9 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 71.5 | 97.5 | -26.0 |
| 39304.000 | 43.7 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.4 | 97.5 | -26.1 |
| 37395.480 | 45.5 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 71.3 | 97.5 | -26.2 |
| 36734.100 | 45.7 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 70.8 | 97.5 | -26.7 |
| 37374.510 | 45.0 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.7 | 97.5 | -26.8 |
| 36698.010 | 44.9 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.0 | 97.5 | -27.5 |
| 38776.680 | 42.4 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.6 | 97.5 | -27.9 |
| 38758.710 | 42.4 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.6 | 97.5 | -27.9 |
| 33577.700 | 44.1 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.7 | 97.5 | -28.8 |
| 34081.210 | 43.5 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.5 | 97.5 | -29.0 |
| 34123.320 | 43.1 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.1 | 97.5 | -29.4 |
| 33598.750 | 43.3 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 36385.200 | 42.2 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.1 | 97.5 | -30.4 |
| 36279.920 | 42.1 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 66.9 | 97.5 | -30.6 |
| 35744.530 | 42.1 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.8 | 97.5 | -30.7 |
| 34276.720 | 41.7 | 28.9 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 66.7 | 97.5 | -30.8 |
| 38258.360 | 39.8 | 28.4 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.6 | 97.5 | -30.9 |
| 35663.320 | 41.9 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 66.6 | 97.5 | -30.9 |
| 35684.380 | 41.9 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.6 | 97.5 | -30.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

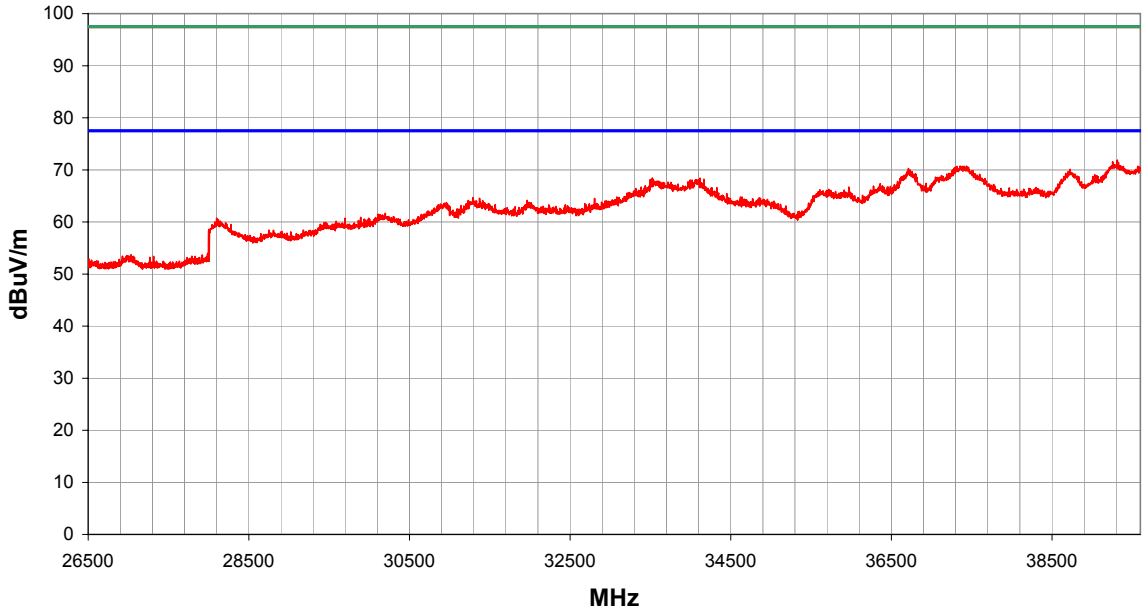
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 33 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39861.270 | 43.8 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 72.0 | 97.5 | -25.5 |
| 39312.980 | 44.2 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.9 | 97.5 | -25.6 |
| 39903.210 | 43.5 | 27.5 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.7 | 97.5 | -25.8 |
| 37437.430 | 44.9 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.7 | 97.5 | -26.8 |
| 37404.470 | 44.9 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.7 | 97.5 | -26.8 |
| 39289.020 | 43.0 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.7 | 97.5 | -26.8 |
| 36713.050 | 45.2 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.3 | 97.5 | -27.2 |
| 38725.750 | 42.9 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 70.1 | 97.5 | -27.4 |
| 36758.160 | 44.6 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 38761.700 | 42.0 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.2 | 97.5 | -28.3 |
| 33523.550 | 43.9 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.4 | 97.5 | -29.1 |
| 34117.300 | 43.4 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.4 | 97.5 | -29.1 |
| 34165.430 | 43.2 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.2 | 97.5 | -29.3 |
| 33535.590 | 43.6 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 68.2 | 97.5 | -29.3 |
| 33992.770 | 43.0 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.0 | 97.5 | -29.5 |
| 33755.160 | 42.8 | 28.9 | 0.0 | 43.6 | 10.1 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 33655.900 | 42.9 | 28.9 | 0.0 | 43.6 | 10.1 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 36361.130 | 42.5 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.3 | 97.5 | -30.2 |
| 35970.120 | 42.1 | 29.8 | 0.0 | 43.6 | 10.8 | 0.0 | H | | 0.0 | 66.7 | 97.5 | -30.8 |
| 36460.390 | 41.8 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 66.7 | 97.5 | -30.8 |
| 38303.300 | 39.8 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.6 | 97.5 | -30.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

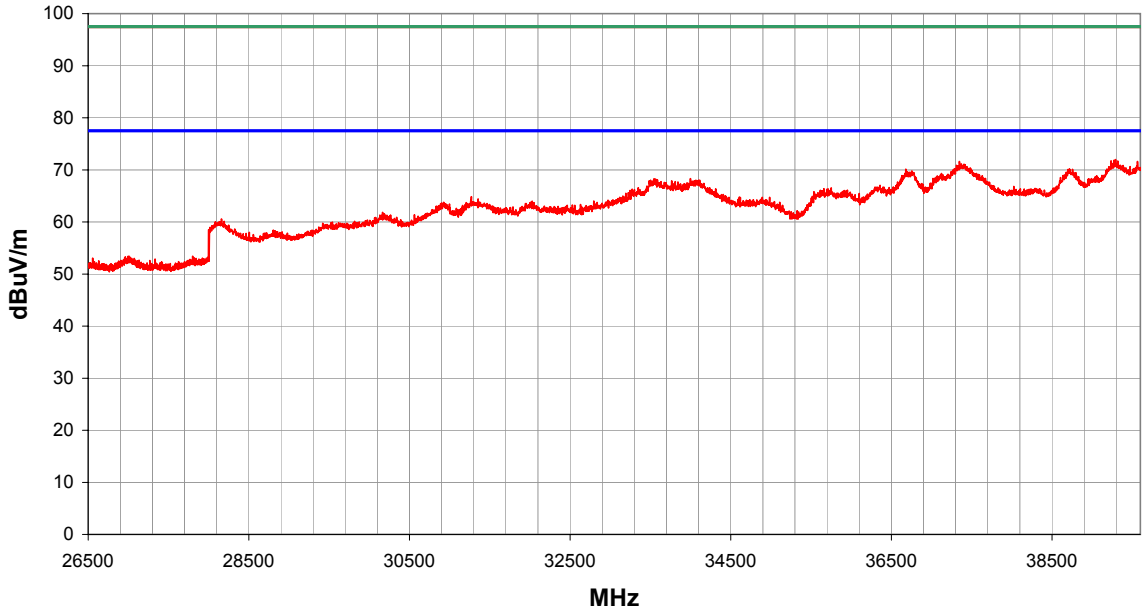
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 34 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39948.160 | 44.6 | 27.5 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 72.8 | 97.5 | -24.7 |
| 39292.010 | 44.3 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 72.0 | 97.5 | -25.5 |
| 39816.330 | 43.6 | 27.6 | 0.0 | 43.8 | 11.9 | 0.0 | V | | 0.0 | 71.7 | 97.5 | -25.8 |
| 37347.550 | 45.9 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 71.6 | 97.5 | -25.9 |
| 39277.030 | 43.2 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.9 | 97.5 | -26.6 |
| 37395.480 | 44.8 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.6 | 97.5 | -26.9 |
| 38716.760 | 43.0 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 70.2 | 97.5 | -27.3 |
| 36679.960 | 45.1 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.1 | 97.5 | -27.4 |
| 36755.160 | 44.5 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.6 | 97.5 | -27.9 |
| 38758.710 | 42.0 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.2 | 97.5 | -28.3 |
| 33998.790 | 43.3 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 33556.640 | 43.7 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 34111.290 | 42.9 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 33559.650 | 43.3 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.9 | 97.5 | -29.6 |
| 36358.130 | 42.2 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.0 | 97.5 | -30.5 |
| 35750.550 | 41.9 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.6 | 97.5 | -30.9 |
| 35660.310 | 41.7 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 66.4 | 97.5 | -31.1 |
| 38282.330 | 39.4 | 28.4 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.2 | 97.5 | -31.3 |
| 35894.920 | 41.2 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 65.8 | 97.5 | -31.7 |
| 31270.700 | 42.4 | 30.4 | 0.0 | 43.5 | 9.3 | 0.0 | H | | 0.0 | 64.9 | 97.5 | -32.6 |
| 34893.320 | 39.9 | 29.2 | 0.0 | 43.6 | 10.4 | 0.0 | V | | 0.0 | 64.7 | 97.5 | -32.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

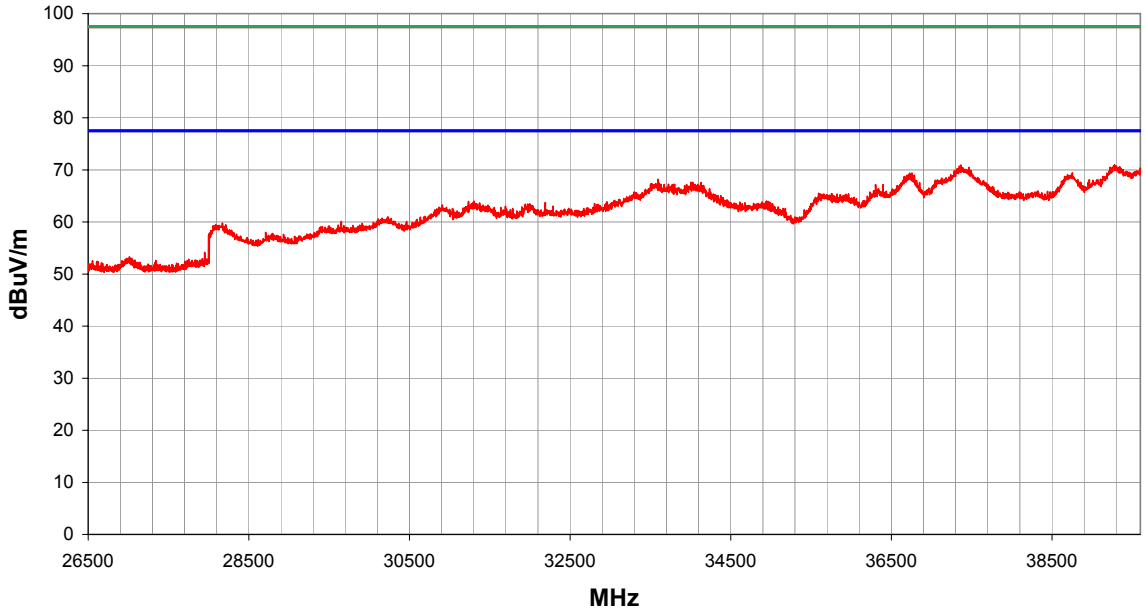
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 35 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39837.300 | 43.5 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 71.6 | 97.5 | -25.9 |
| 39870.260 | 43.3 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.5 | 97.5 | -26.0 |
| 39277.030 | 43.3 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.0 | 97.5 | -26.5 |
| 37365.520 | 45.2 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.9 | 97.5 | -26.6 |
| 39298.000 | 43.1 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.8 | 97.5 | -26.7 |
| 37314.590 | 44.5 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.2 | 97.5 | -27.3 |
| 38752.710 | 42.2 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.4 | 97.5 | -28.1 |
| 36755.160 | 44.3 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.4 | 97.5 | -28.1 |
| 36728.090 | 44.3 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.4 | 97.5 | -28.1 |
| 38728.750 | 41.7 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 68.9 | 97.5 | -28.6 |
| 33595.740 | 43.6 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.2 | 97.5 | -29.3 |
| 34004.800 | 42.6 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 67.6 | 97.5 | -29.9 |
| 34027.070 | 42.6 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 33604.770 | 42.9 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.5 | 97.5 | -30.0 |
| 33800.270 | 42.4 | 28.8 | 0.0 | 43.6 | 10.1 | 0.0 | V | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36303.980 | 42.4 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36397.230 | 42.3 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 67.2 | 97.5 | -30.3 |
| 33857.420 | 41.6 | 28.8 | 0.0 | 43.6 | 10.1 | 0.0 | V | | 0.0 | 66.5 | 97.5 | -31.0 |
| 38093.570 | 39.1 | 28.5 | 0.0 | 43.7 | 11.4 | 0.0 | V | | 0.0 | 65.8 | 97.5 | -31.7 |
| 37949.760 | 39.2 | 28.6 | 0.0 | 43.7 | 11.4 | 0.0 | V | | 0.0 | 65.7 | 97.5 | -31.8 |
| 35594.140 | 40.8 | 29.6 | 0.0 | 43.6 | 10.6 | 0.0 | V | | 0.0 | 65.5 | 97.5 | -32.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

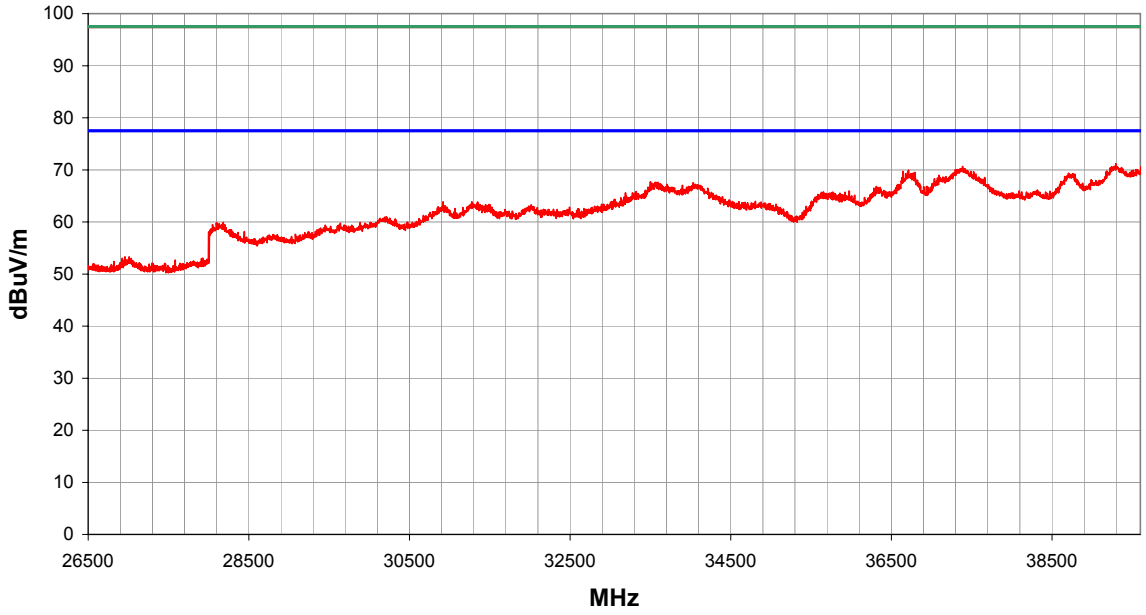
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 36 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39852.280 | 43.7 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 71.8 | 97.5 | -25.7 |
| 39858.270 | 43.4 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 71.5 | 97.5 | -26.0 |
| 39295.010 | 43.5 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 71.2 | 97.5 | -26.3 |
| 37386.500 | 44.9 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 70.7 | 97.5 | -26.8 |
| 39606.600 | 42.6 | 27.7 | 0.0 | 43.8 | 11.9 | 0.0 | V | | 0.0 | 70.5 | 97.5 | -27.0 |
| 37416.460 | 44.4 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.2 | 97.5 | -27.3 |
| 39304.000 | 42.5 | 27.8 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.2 | 97.5 | -27.3 |
| 36713.050 | 44.9 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 70.0 | 97.5 | -27.5 |
| 36773.200 | 44.3 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.4 | 97.5 | -28.1 |
| 38704.780 | 42.2 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.4 | 97.5 | -28.1 |
| 38731.740 | 41.9 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.1 | 97.5 | -28.4 |
| 33499.490 | 43.2 | 29.1 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 67.7 | 97.5 | -29.8 |
| 33595.740 | 43.0 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 33559.650 | 43.0 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.6 | 97.5 | -29.9 |
| 34033.090 | 42.5 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 67.5 | 97.5 | -30.0 |
| 34048.130 | 42.2 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 67.2 | 97.5 | -30.3 |
| 36313.010 | 42.0 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | H | | 0.0 | 66.8 | 97.5 | -30.7 |
| 36334.060 | 41.8 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 66.6 | 97.5 | -30.9 |
| 38318.280 | 39.3 | 28.3 | 0.0 | 43.7 | 11.5 | 0.0 | V | | 0.0 | 66.2 | 97.5 | -31.3 |
| 35970.120 | 41.3 | 29.8 | 0.0 | 43.6 | 10.8 | 0.0 | H | | 0.0 | 65.9 | 97.5 | -31.6 |
| 35976.130 | 41.3 | 29.8 | 0.0 | 43.6 | 10.8 | 0.0 | V | | 0.0 | 65.9 | 97.5 | -31.6 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

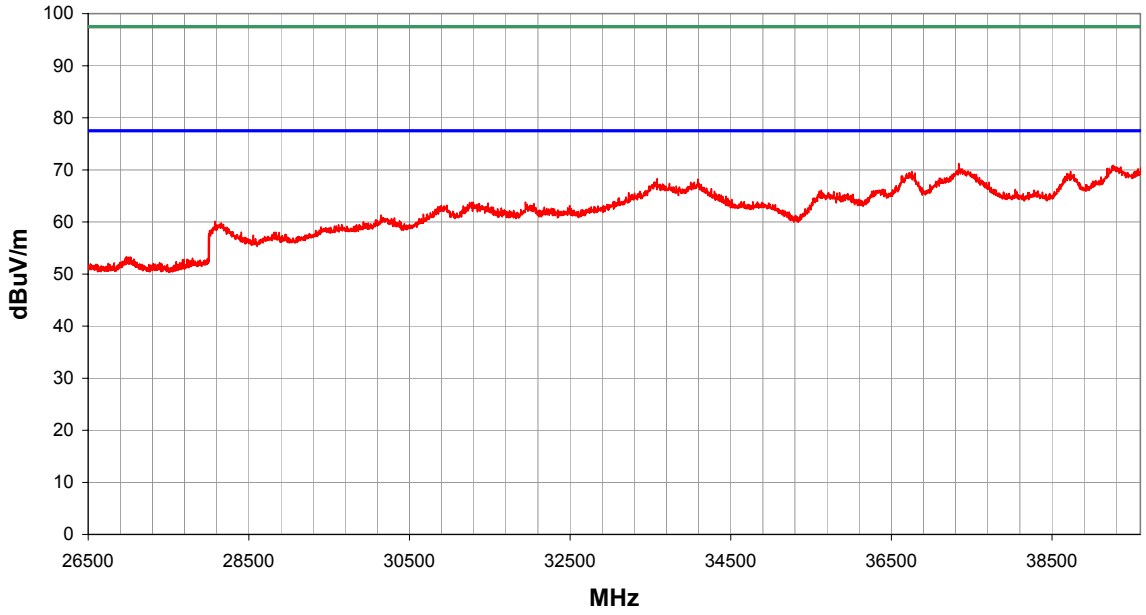
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.2 | 37 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39885.240 | 43.4 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | H | | 0.0 | 71.6 | 97.5 | -25.9 |
| 37338.560 | 45.5 | 29.2 | 0.0 | 43.7 | 11.2 | 0.0 | H | | 0.0 | 71.2 | 97.5 | -26.3 |
| 39849.290 | 42.8 | 27.6 | 0.0 | 43.8 | 12.0 | 0.0 | V | | 0.0 | 70.9 | 97.5 | -26.6 |
| 39265.050 | 43.2 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | H | | 0.0 | 70.8 | 97.5 | -26.7 |
| 39283.020 | 42.9 | 27.9 | 0.0 | 43.7 | 11.8 | 0.0 | V | | 0.0 | 70.6 | 97.5 | -26.9 |
| 37386.500 | 44.3 | 29.1 | 0.0 | 43.7 | 11.2 | 0.0 | V | | 0.0 | 70.1 | 97.5 | -27.4 |
| 38731.740 | 42.5 | 28.1 | 0.0 | 43.7 | 11.6 | 0.0 | V | | 0.0 | 69.7 | 97.5 | -27.8 |
| 36755.160 | 44.6 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | H | | 0.0 | 69.7 | 97.5 | -27.8 |
| 38686.800 | 42.1 | 28.2 | 0.0 | 43.7 | 11.6 | 0.0 | H | | 0.0 | 69.3 | 97.5 | -28.2 |
| 36725.080 | 44.1 | 29.6 | 0.0 | 43.7 | 11.0 | 0.0 | V | | 0.0 | 69.2 | 97.5 | -28.3 |
| 33583.710 | 43.7 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | H | | 0.0 | 68.3 | 97.5 | -29.2 |
| 34090.230 | 43.2 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 68.2 | 97.5 | -29.3 |
| 34001.800 | 42.6 | 28.7 | 0.0 | 43.6 | 10.2 | 0.0 | H | | 0.0 | 67.6 | 97.5 | -29.9 |
| 33619.800 | 42.6 | 29.0 | 0.0 | 43.6 | 10.0 | 0.0 | V | | 0.0 | 67.2 | 97.5 | -30.3 |
| 34258.670 | 41.4 | 28.8 | 0.0 | 43.6 | 10.2 | 0.0 | V | | 0.0 | 66.4 | 97.5 | -31.1 |
| 36397.230 | 41.4 | 29.7 | 0.0 | 43.6 | 10.9 | 0.0 | V | | 0.0 | 66.3 | 97.5 | -31.2 |
| 38276.340 | 39.3 | 28.4 | 0.0 | 43.7 | 11.5 | 0.0 | H | | 0.0 | 66.1 | 97.5 | -31.4 |
| 35627.230 | 41.4 | 29.6 | 0.0 | 43.6 | 10.7 | 0.0 | V | | 0.0 | 66.1 | 97.5 | -31.4 |
| 35783.630 | 41.2 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 65.9 | 97.5 | -31.6 |
| 38201.430 | 38.9 | 28.4 | 0.0 | 43.7 | 11.4 | 0.0 | V | | 0.0 | 65.7 | 97.5 | -31.8 |
| 35855.820 | 41.0 | 29.7 | 0.0 | 43.6 | 10.7 | 0.0 | H | | 0.0 | 65.6 | 97.5 | -31.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

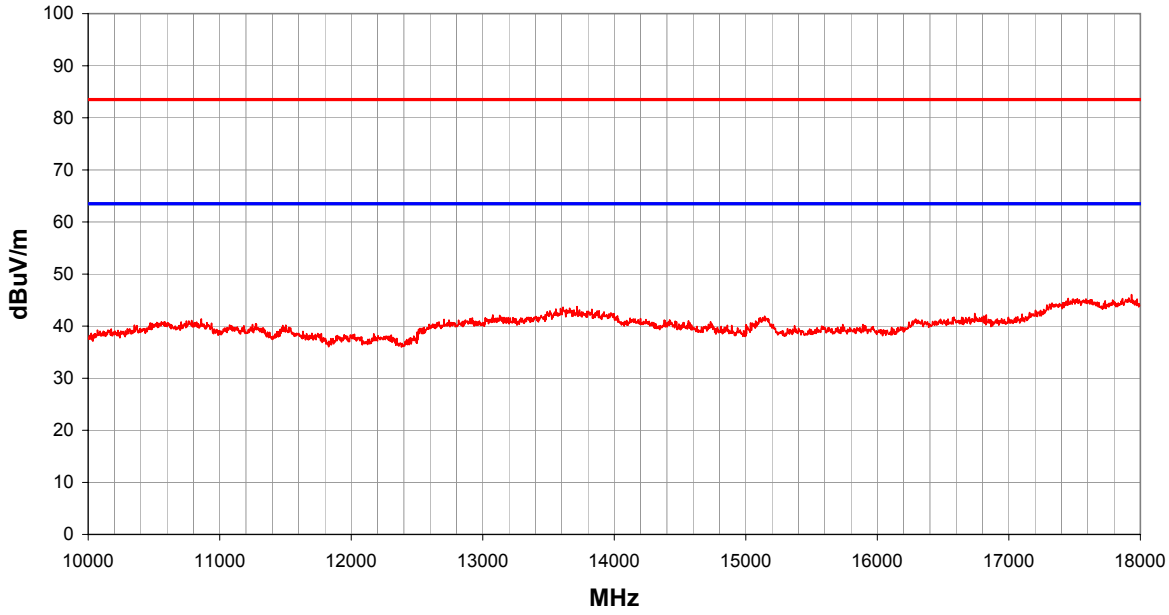
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 38 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17933.630 | 30.1 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17912.650 | 29.5 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 45.4 | 83.5 | -38.1 |
| 17451.260 | 30.1 | 34.6 | 0.0 | 43.8 | 6.0 | 0.0 | H | | 0.0 | 45.3 | 83.5 | -38.2 |
| 17535.150 | 29.5 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 45.1 | 83.5 | -38.4 |
| 13716.290 | 32.4 | 34.6 | 0.0 | 41.0 | 4.9 | 0.0 | H | | 0.0 | 43.8 | 83.5 | -39.7 |
| 13610.960 | 32.5 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 43.6 | 83.5 | -39.9 |
| 13829.140 | 31.6 | 34.6 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 43.2 | 83.5 | -40.3 |
| 16741.180 | 30.8 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | V | | 0.0 | 42.4 | 83.5 | -41.1 |
| 16828.070 | 30.4 | 34.3 | 0.0 | 40.2 | 5.8 | 0.0 | H | | 0.0 | 42.2 | 83.5 | -41.3 |
| 13076.800 | 32.3 | 34.9 | 0.0 | 39.9 | 4.8 | 0.0 | V | | 0.0 | 42.1 | 83.5 | -41.4 |
| 15143.860 | 31.6 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 41.9 | 83.5 | -41.6 |
| 15128.870 | 31.3 | 34.2 | 0.0 | 39.2 | 5.3 | 0.0 | V | | 0.0 | 41.6 | 83.5 | -41.9 |
| 10860.180 | 34.2 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 41.4 | 83.5 | -42.1 |
| 14420.980 | 29.8 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 14380.860 | 29.7 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | H | | 0.0 | 41.2 | 83.5 | -42.3 |
| 14563.930 | 29.8 | 34.3 | 0.0 | 40.4 | 5.2 | 0.0 | H | | 0.0 | 41.0 | 83.5 | -42.5 |
| 10747.330 | 33.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.0 | 83.5 | -42.5 |
| 14731.950 | 29.8 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 11273.970 | 32.7 | 35.3 | 0.0 | 38.7 | 4.3 | 0.0 | H | | 0.0 | 40.5 | 83.5 | -43.0 |
| 11278.980 | 32.6 | 35.3 | 0.0 | 38.8 | 4.3 | 0.0 | V | | 0.0 | 40.4 | 83.5 | -43.1 |
| 14716.910 | 29.3 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | H | | 0.0 | 40.3 | 83.5 | -43.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

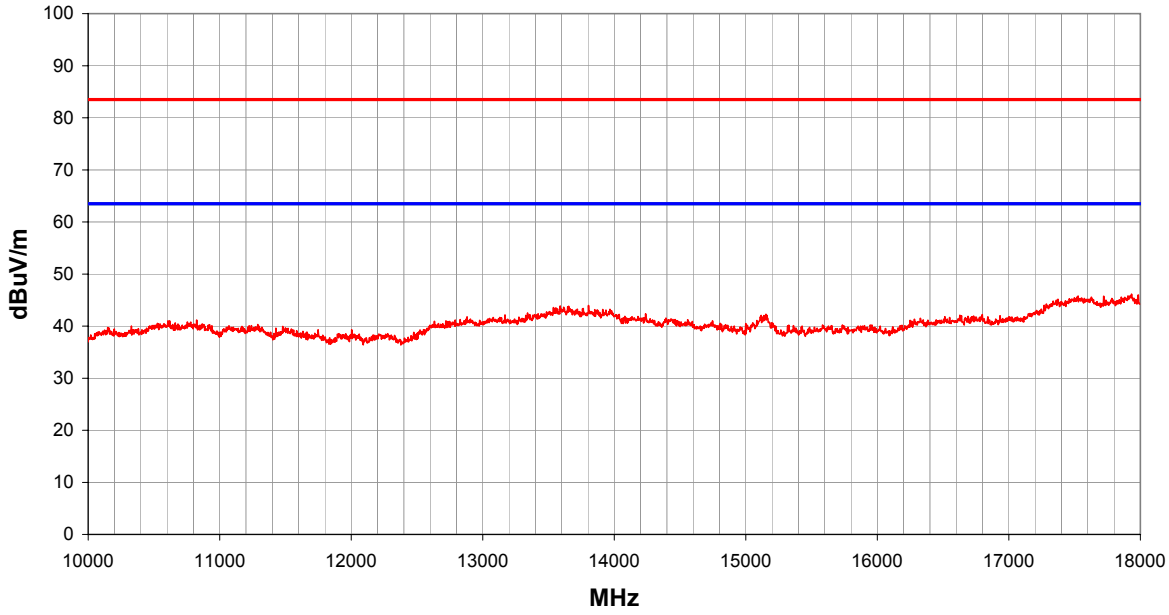
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 39 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17933.630 | 30.2 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17984.560 | 30.0 | 34.9 | 0.0 | 44.8 | 6.1 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17526.160 | 30.2 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 17526.160 | 30.1 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 13804.060 | 32.4 | 34.6 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13588.390 | 32.8 | 34.7 | 0.0 | 40.8 | 4.9 | 0.0 | V | | 0.0 | 43.9 | 83.5 | -39.6 |
| 13653.590 | 32.6 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 43.8 | 83.5 | -39.7 |
| 14237.910 | 30.7 | 34.4 | 0.0 | 41.0 | 5.1 | 0.0 | V | | 0.0 | 42.4 | 83.5 | -41.1 |
| 15152.850 | 32.0 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16798.110 | 30.5 | 34.3 | 0.0 | 40.2 | 5.8 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 13169.590 | 32.1 | 34.9 | 0.0 | 40.1 | 4.8 | 0.0 | H | | 0.0 | 42.2 | 83.5 | -41.3 |
| 15137.870 | 31.7 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 10825.070 | 34.0 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 10606.890 | 33.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 41.0 | 83.5 | -42.5 |
| 10619.430 | 33.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.0 | 83.5 | -42.5 |
| 14747.000 | 30.0 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | H | | 0.0 | 41.0 | 83.5 | -42.5 |
| 15000.000 | 29.8 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | H | | 0.0 | 40.5 | 83.5 | -43.0 |
| 11289.020 | 32.5 | 35.3 | 0.0 | 38.8 | 4.3 | 0.0 | V | | 0.0 | 40.3 | 83.5 | -43.2 |
| 15734.280 | 30.9 | 34.0 | 0.0 | 37.8 | 5.5 | 0.0 | H | | 0.0 | 40.2 | 83.5 | -43.3 |
| 15584.430 | 30.9 | 34.0 | 0.0 | 37.8 | 5.5 | 0.0 | V | | 0.0 | 40.2 | 83.5 | -43.3 |
| 15326.680 | 30.4 | 34.1 | 0.0 | 38.5 | 5.4 | 0.0 | V | | 0.0 | 40.2 | 83.5 | -43.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

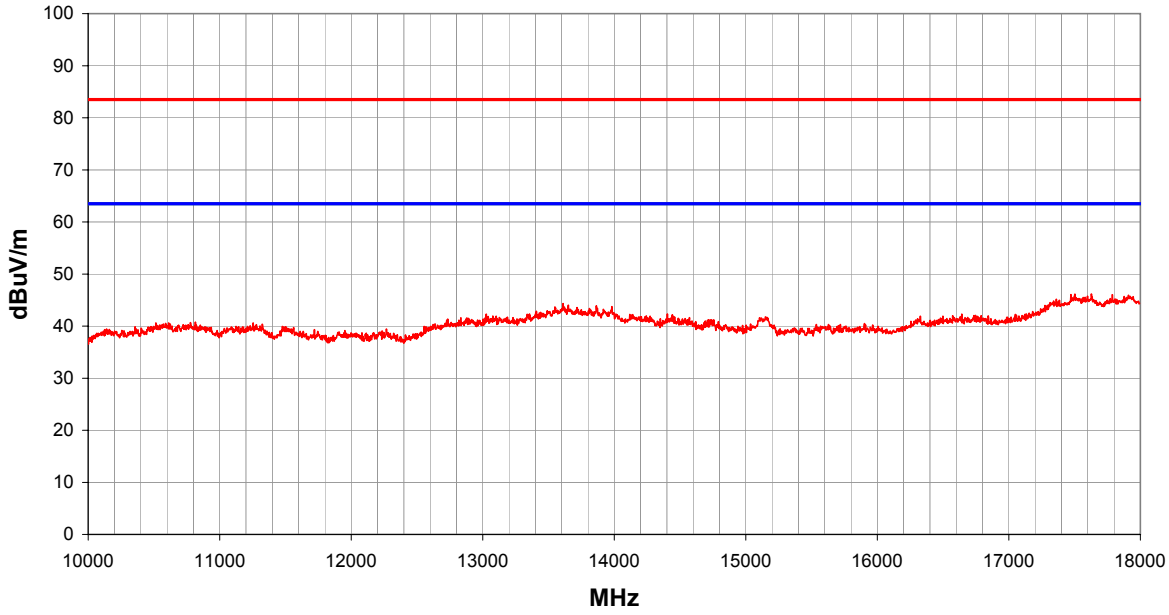
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 40 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17628.030 | 30.5 | 34.7 | 0.0 | 44.4 | 6.0 | 0.0 | V | | 0.0 | 46.2 | 83.5 | -37.3 |
| 17472.230 | 30.7 | 34.6 | 0.0 | 44.0 | 6.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17786.820 | 30.2 | 34.8 | 0.0 | 44.5 | 6.1 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17909.660 | 30.0 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 13610.960 | 33.2 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 44.3 | 83.5 | -39.2 |
| 13651.090 | 32.8 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13864.250 | 32.2 | 34.6 | 0.0 | 41.3 | 5.0 | 0.0 | V | | 0.0 | 43.9 | 83.5 | -39.6 |
| 13982.120 | 31.8 | 34.5 | 0.0 | 41.5 | 5.0 | 0.0 | H | | 0.0 | 43.8 | 83.5 | -39.7 |
| 14403.430 | 30.9 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 13026.640 | 32.6 | 34.9 | 0.0 | 39.8 | 4.8 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16642.310 | 30.8 | 34.2 | 0.0 | 39.9 | 5.8 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16747.170 | 30.4 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 16327.700 | 31.3 | 34.1 | 0.0 | 39.0 | 5.7 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 15149.850 | 31.5 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 41.8 | 83.5 | -41.7 |
| 14458.600 | 30.4 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | H | | 0.0 | 41.8 | 83.5 | -41.7 |
| 15161.840 | 31.4 | 34.2 | 0.0 | 39.0 | 5.3 | 0.0 | H | | 0.0 | 41.6 | 83.5 | -41.9 |
| 14719.410 | 30.2 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 10815.040 | 33.6 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 10777.420 | 33.5 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | H | | 0.0 | 40.7 | 83.5 | -42.8 |
| 10514.100 | 33.4 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 40.6 | 83.5 | -42.9 |
| 11253.910 | 32.9 | 35.3 | 0.0 | 38.7 | 4.3 | 0.0 | H | | 0.0 | 40.6 | 83.5 | -42.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

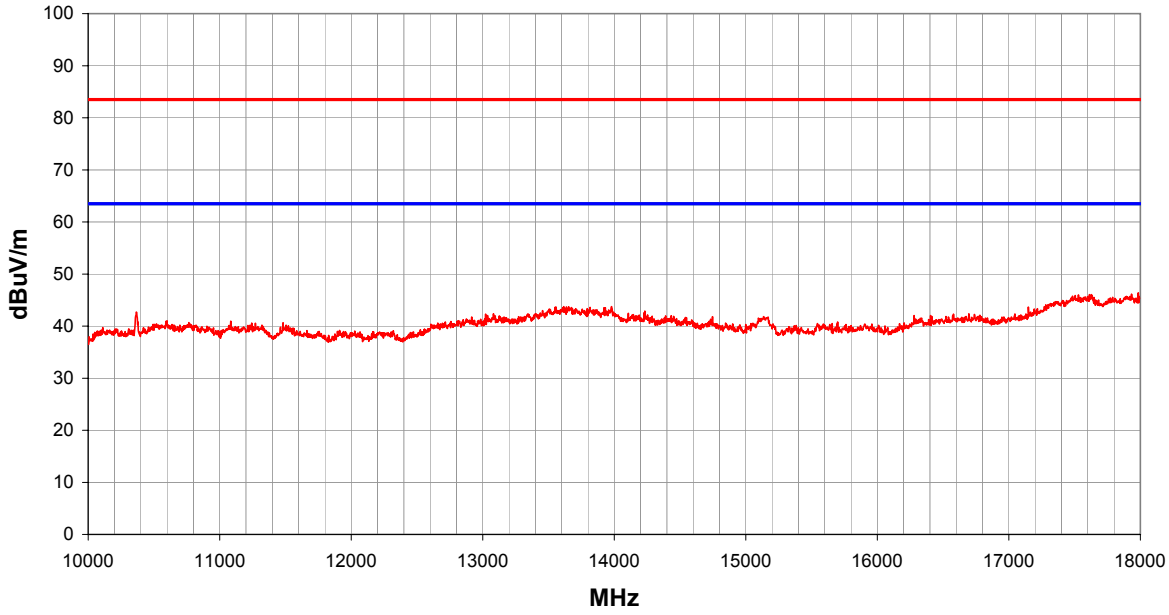
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 41 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17984.560 | 30.4 | 34.9 | 0.0 | 44.8 | 6.1 | 0.0 | H | | 0.0 | 46.4 | 83.5 | -37.1 |
| 17933.630 | 30.2 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17628.030 | 30.4 | 34.7 | 0.0 | 44.4 | 6.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17613.040 | 30.4 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | V | | 0.0 | 46.1 | 83.5 | -37.4 |
| 13979.610 | 31.8 | 34.5 | 0.0 | 41.5 | 5.0 | 0.0 | V | | 0.0 | 43.8 | 83.5 | -39.7 |
| 13615.980 | 32.6 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 43.7 | 83.5 | -39.8 |
| 13555.790 | 32.7 | 34.7 | 0.0 | 40.8 | 4.9 | 0.0 | H | | 0.0 | 43.7 | 83.5 | -39.8 |
| 17148.650 | 30.6 | 34.5 | 0.0 | 41.6 | 5.9 | 0.0 | H | | 0.0 | 43.7 | 83.5 | -39.8 |
| 14232.900 | 31.2 | 34.4 | 0.0 | 41.0 | 5.1 | 0.0 | H | | 0.0 | 42.9 | 83.5 | -40.6 |
| 10366.140 | 35.5 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 42.7 | 83.5 | -40.8 |
| 10368.650 | 35.4 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 42.6 | 83.5 | -40.9 |
| 14227.880 | 30.9 | 34.4 | 0.0 | 41.0 | 5.1 | 0.0 | V | | 0.0 | 42.6 | 83.5 | -40.9 |
| 16696.240 | 30.8 | 34.2 | 0.0 | 40.0 | 5.8 | 0.0 | V | | 0.0 | 42.4 | 83.5 | -41.1 |
| 13081.810 | 32.5 | 34.9 | 0.0 | 39.9 | 4.8 | 0.0 | H | | 0.0 | 42.4 | 83.5 | -41.1 |
| 16780.130 | 30.4 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | H | | 0.0 | 42.1 | 83.5 | -41.4 |
| 16405.620 | 31.1 | 34.1 | 0.0 | 39.3 | 5.7 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 16279.750 | 31.6 | 34.0 | 0.0 | 38.8 | 5.7 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 14433.520 | 30.6 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | H | | 0.0 | 42.0 | 83.5 | -41.5 |
| 14390.890 | 30.5 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 15134.870 | 31.5 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 41.8 | 83.5 | -41.7 |
| 15137.870 | 31.5 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 41.8 | 83.5 | -41.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

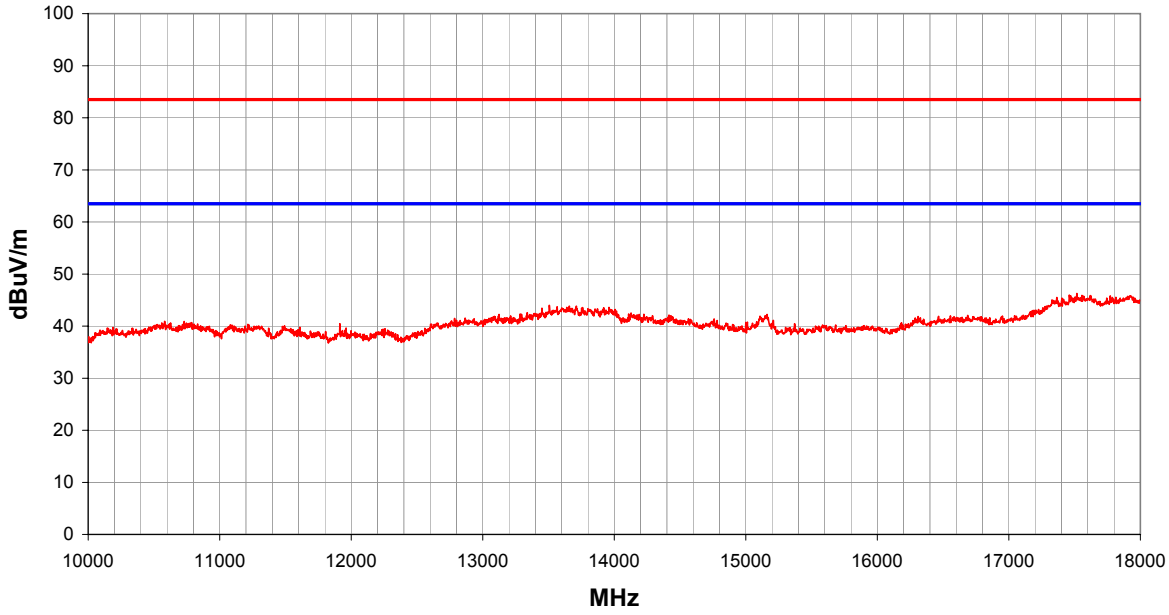
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 42 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17517.170 | 30.7 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17460.240 | 30.7 | 34.6 | 0.0 | 43.9 | 6.0 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17921.640 | 29.9 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 17915.650 | 29.8 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 13505.630 | 33.1 | 34.7 | 0.0 | 40.7 | 4.9 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13711.270 | 32.5 | 34.6 | 0.0 | 41.0 | 4.9 | 0.0 | H | | 0.0 | 43.9 | 83.5 | -39.6 |
| 13565.820 | 32.7 | 34.7 | 0.0 | 40.8 | 4.9 | 0.0 | V | | 0.0 | 43.7 | 83.5 | -39.8 |
| 13959.550 | 31.7 | 34.5 | 0.0 | 41.4 | 5.0 | 0.0 | H | | 0.0 | 43.6 | 83.5 | -39.9 |
| 14127.570 | 30.7 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 42.5 | 83.5 | -41.0 |
| 13124.450 | 32.3 | 34.9 | 0.0 | 40.0 | 4.8 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 15161.840 | 32.0 | 34.2 | 0.0 | 39.0 | 5.3 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 14415.970 | 30.7 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 42.1 | 83.5 | -41.4 |
| 16687.250 | 30.5 | 34.2 | 0.0 | 40.0 | 5.8 | 0.0 | H | | 0.0 | 42.1 | 83.5 | -41.4 |
| 15146.860 | 31.7 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.0 | 83.5 | -41.5 |
| 16555.420 | 30.6 | 34.2 | 0.0 | 39.8 | 5.8 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 16309.720 | 31.3 | 34.1 | 0.0 | 38.9 | 5.7 | 0.0 | V | | 0.0 | 41.8 | 83.5 | -41.7 |
| 12866.140 | 32.2 | 35.0 | 0.0 | 39.6 | 4.8 | 0.0 | V | | 0.0 | 41.5 | 83.5 | -42.0 |
| 14759.540 | 30.4 | 34.3 | 0.0 | 40.0 | 5.2 | 0.0 | H | | 0.0 | 41.4 | 83.5 | -42.1 |
| 10581.810 | 33.7 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 40.9 | 83.5 | -42.6 |
| 10729.770 | 33.7 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 40.9 | 83.5 | -42.6 |
| 15000.000 | 30.0 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | H | | 0.0 | 40.7 | 83.5 | -42.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

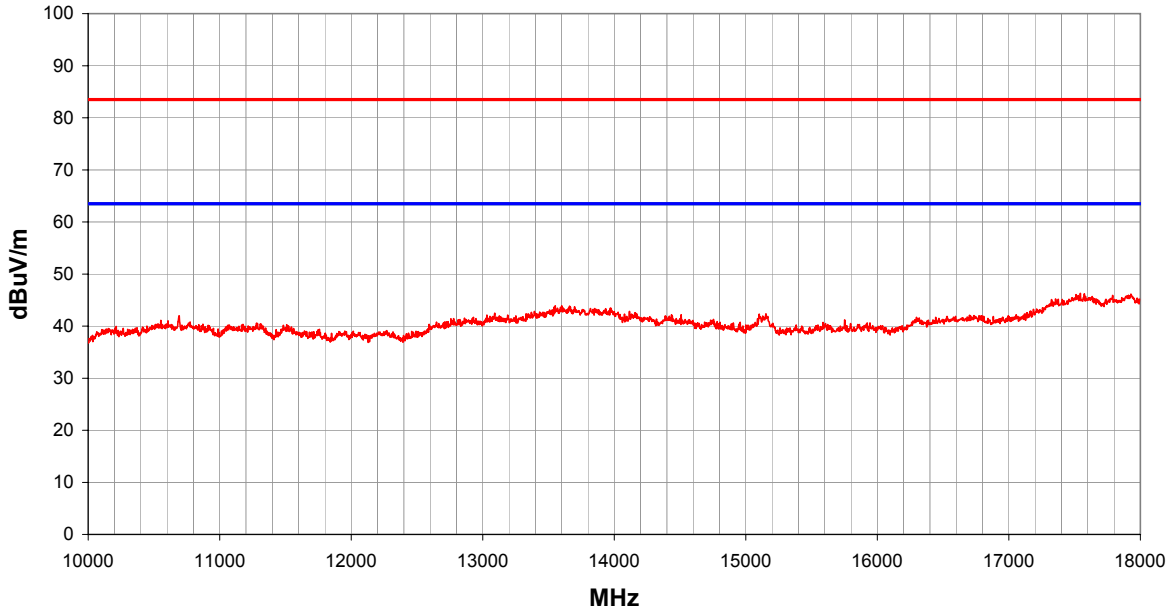
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 43 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17544.130 | 30.7 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17927.630 | 30.2 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17511.180 | 30.5 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17927.630 | 30.0 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 13600.930 | 32.8 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 43.9 | 83.5 | -39.6 |
| 13550.770 | 32.9 | 34.7 | 0.0 | 40.8 | 4.9 | 0.0 | V | | 0.0 | 43.9 | 83.5 | -39.6 |
| 14115.030 | 31.0 | 34.5 | 0.0 | 41.3 | 5.0 | 0.0 | V | | 0.0 | 42.8 | 83.5 | -40.7 |
| 14160.170 | 30.8 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 42.6 | 83.5 | -40.9 |
| 13091.840 | 32.6 | 34.9 | 0.0 | 40.0 | 4.8 | 0.0 | H | | 0.0 | 42.5 | 83.5 | -41.0 |
| 15152.850 | 32.1 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.4 | 83.5 | -41.1 |
| 15101.900 | 31.9 | 34.2 | 0.0 | 39.3 | 5.3 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 14436.030 | 30.8 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | H | | 0.0 | 42.2 | 83.5 | -41.3 |
| 14508.760 | 30.9 | 34.3 | 0.0 | 40.5 | 5.2 | 0.0 | H | | 0.0 | 42.2 | 83.5 | -41.3 |
| 10692.160 | 34.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 42.0 | 83.5 | -41.5 |
| 14418.480 | 30.5 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 12928.840 | 32.2 | 35.0 | 0.0 | 39.7 | 4.8 | 0.0 | V | | 0.0 | 41.7 | 83.5 | -41.8 |
| 14754.520 | 30.3 | 34.3 | 0.0 | 40.0 | 5.2 | 0.0 | H | | 0.0 | 41.3 | 83.5 | -42.2 |
| 15752.260 | 31.9 | 34.0 | 0.0 | 37.7 | 5.5 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 10551.720 | 33.9 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 41.1 | 83.5 | -42.4 |
| 10606.890 | 33.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.0 | 83.5 | -42.5 |
| 15587.430 | 31.4 | 34.0 | 0.0 | 37.8 | 5.5 | 0.0 | V | | 0.0 | 40.7 | 83.5 | -42.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

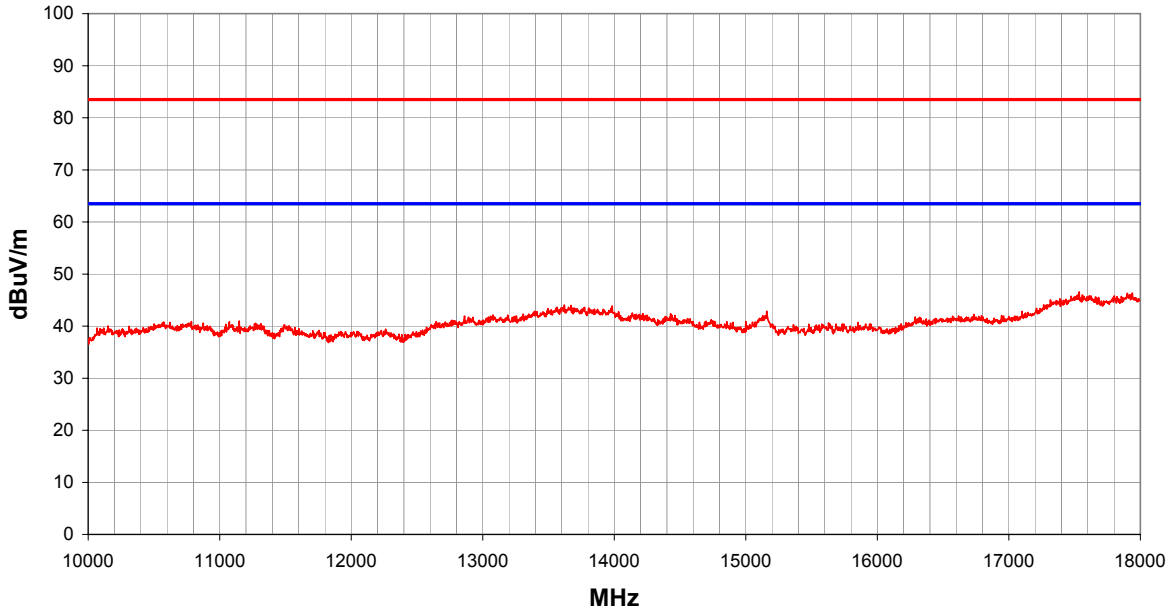
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 44 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17535.150 | 31.0 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 46.6 | 83.5 | -36.9 |
| 17939.620 | 30.4 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17936.620 | 30.1 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17559.120 | 30.4 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 13620.990 | 32.9 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13984.630 | 31.9 | 34.5 | 0.0 | 41.5 | 5.0 | 0.0 | V | | 0.0 | 43.9 | 83.5 | -39.6 |
| 13615.980 | 32.5 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 43.6 | 83.5 | -39.9 |
| 15158.840 | 32.6 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.9 | 83.5 | -40.6 |
| 14428.510 | 31.0 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | H | | 0.0 | 42.4 | 83.5 | -41.1 |
| 16735.190 | 30.6 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 14438.540 | 30.7 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | V | | 0.0 | 42.1 | 83.5 | -41.4 |
| 15128.870 | 31.7 | 34.2 | 0.0 | 39.2 | 5.3 | 0.0 | H | | 0.0 | 42.0 | 83.5 | -41.5 |
| 12861.130 | 32.6 | 35.0 | 0.0 | 39.6 | 4.8 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 16288.740 | 31.3 | 34.0 | 0.0 | 38.8 | 5.7 | 0.0 | H | | 0.0 | 41.8 | 83.5 | -41.7 |
| 14736.970 | 30.2 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 11148.580 | 33.5 | 35.3 | 0.0 | 38.5 | 4.3 | 0.0 | V | | 0.0 | 41.0 | 83.5 | -42.5 |
| 15000.000 | 30.2 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | V | | 0.0 | 40.9 | 83.5 | -42.6 |
| 10784.950 | 33.7 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | H | | 0.0 | 40.9 | 83.5 | -42.6 |
| 11073.340 | 33.5 | 35.3 | 0.0 | 38.3 | 4.2 | 0.0 | H | | 0.0 | 40.8 | 83.5 | -42.7 |
| 10574.290 | 33.6 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 15854.170 | 31.4 | 33.9 | 0.0 | 37.7 | 5.6 | 0.0 | H | | 0.0 | 40.7 | 83.5 | -42.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

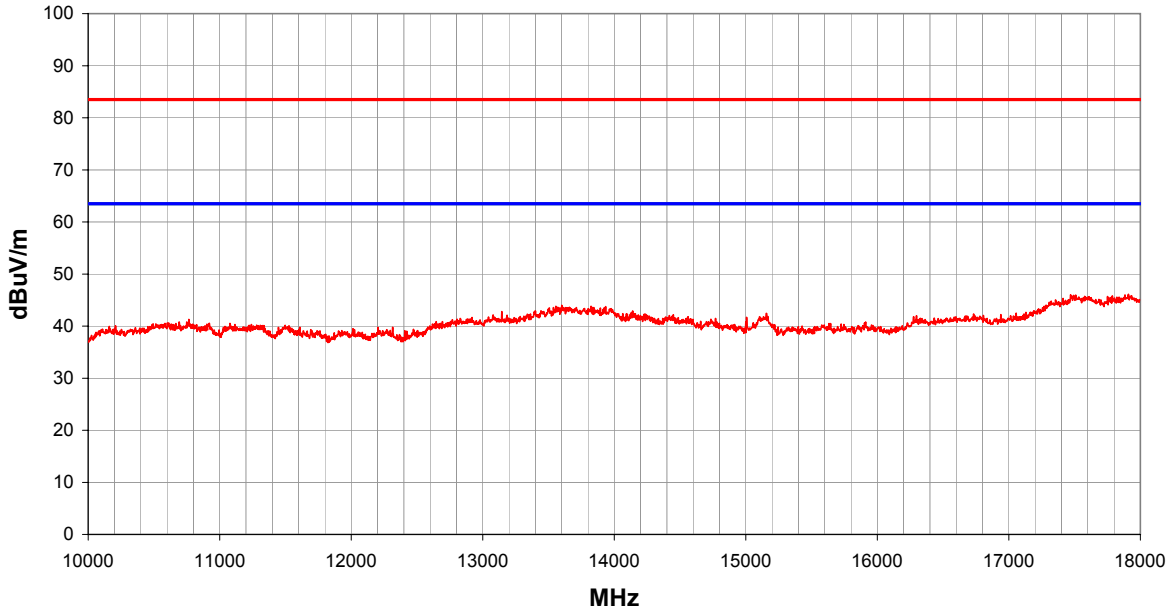
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 45 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17909.660 | 30.2 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17469.230 | 30.7 | 34.6 | 0.0 | 44.0 | 6.0 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17933.630 | 29.9 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 17472.230 | 30.4 | 34.6 | 0.0 | 44.0 | 6.0 | 0.0 | V | | 0.0 | 45.8 | 83.5 | -37.7 |
| 13600.930 | 32.9 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13555.790 | 32.8 | 34.7 | 0.0 | 40.8 | 4.9 | 0.0 | V | | 0.0 | 43.8 | 83.5 | -39.7 |
| 13934.470 | 31.9 | 34.5 | 0.0 | 41.4 | 5.0 | 0.0 | H | | 0.0 | 43.8 | 83.5 | -39.7 |
| 14140.110 | 31.1 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 42.9 | 83.5 | -40.6 |
| 13144.510 | 32.8 | 34.9 | 0.0 | 40.1 | 4.8 | 0.0 | H | | 0.0 | 42.8 | 83.5 | -40.7 |
| 14130.080 | 30.8 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | V | | 0.0 | 42.6 | 83.5 | -40.9 |
| 15155.850 | 32.2 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.5 | 83.5 | -41.0 |
| 16732.190 | 30.7 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 14448.570 | 30.8 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 16297.730 | 31.5 | 34.0 | 0.0 | 38.9 | 5.7 | 0.0 | H | | 0.0 | 42.0 | 83.5 | -41.5 |
| 15152.850 | 31.6 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 16276.750 | 31.4 | 34.0 | 0.0 | 38.8 | 5.7 | 0.0 | V | | 0.0 | 41.8 | 83.5 | -41.7 |
| 15005.990 | 31.0 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | H | | 0.0 | 41.7 | 83.5 | -41.8 |
| 14769.570 | 30.5 | 34.3 | 0.0 | 40.0 | 5.2 | 0.0 | H | | 0.0 | 41.5 | 83.5 | -42.0 |
| 10764.880 | 34.1 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 41.3 | 83.5 | -42.2 |
| 15000.000 | 30.1 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 15911.110 | 31.5 | 33.9 | 0.0 | 37.7 | 5.6 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

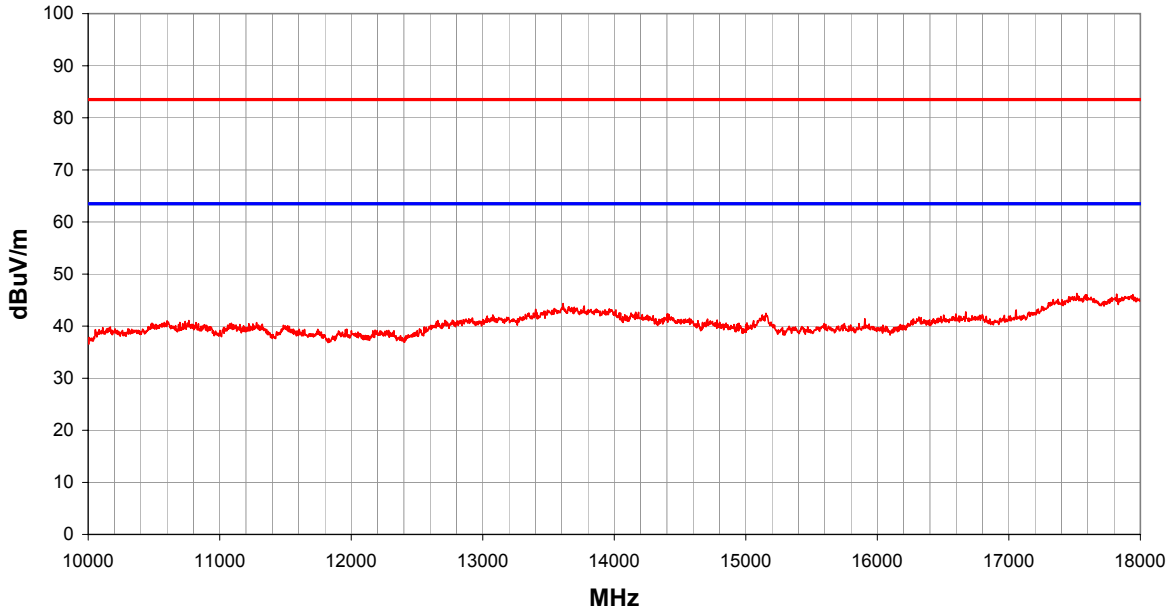
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 46 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17517.170 | 30.7 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17819.780 | 30.3 | 34.8 | 0.0 | 44.6 | 6.1 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17942.620 | 30.1 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17592.070 | 30.4 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 13610.960 | 33.2 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 44.3 | 83.5 | -39.2 |
| 13656.100 | 32.5 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 43.7 | 83.5 | -39.8 |
| 17055.770 | 30.7 | 34.4 | 0.0 | 40.9 | 5.9 | 0.0 | V | | 0.0 | 43.1 | 83.5 | -40.4 |
| 16672.270 | 31.2 | 34.2 | 0.0 | 40.0 | 5.8 | 0.0 | H | | 0.0 | 42.7 | 83.5 | -40.8 |
| 14162.680 | 30.9 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 42.7 | 83.5 | -40.8 |
| 14185.250 | 30.9 | 34.4 | 0.0 | 41.1 | 5.1 | 0.0 | V | | 0.0 | 42.6 | 83.5 | -40.9 |
| 15152.850 | 32.2 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.5 | 83.5 | -41.0 |
| 14400.920 | 30.9 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16597.370 | 30.9 | 34.2 | 0.0 | 39.9 | 5.8 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 14408.450 | 30.9 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 15155.850 | 31.9 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 13076.800 | 32.3 | 34.9 | 0.0 | 39.9 | 4.8 | 0.0 | H | | 0.0 | 42.1 | 83.5 | -41.4 |
| 15905.120 | 32.1 | 33.9 | 0.0 | 37.7 | 5.6 | 0.0 | V | | 0.0 | 41.4 | 83.5 | -42.1 |
| 14709.380 | 30.3 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | V | | 0.0 | 41.3 | 83.5 | -42.2 |
| 14782.110 | 30.2 | 34.3 | 0.0 | 40.0 | 5.2 | 0.0 | H | | 0.0 | 41.2 | 83.5 | -42.3 |
| 10764.880 | 33.9 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 41.1 | 83.5 | -42.4 |
| 10599.370 | 33.8 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 41.0 | 83.5 | -42.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

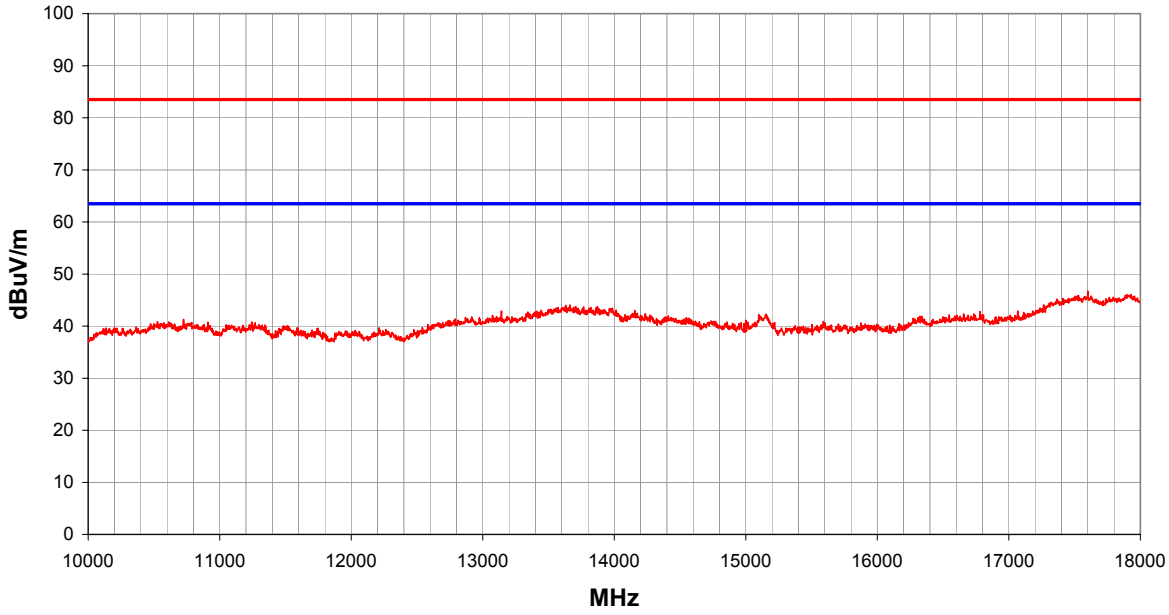
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 47 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17601.060 | 31.1 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | H | | 0.0 | 46.7 | 83.5 | -36.8 |
| 17930.630 | 30.1 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17897.670 | 30.1 | 34.8 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.0 | 83.5 | -37.5 |
| 17529.150 | 30.3 | 34.7 | 0.0 | 44.2 | 6.0 | 0.0 | V | | 0.0 | 45.9 | 83.5 | -37.6 |
| 13663.630 | 32.8 | 34.7 | 0.0 | 41.0 | 4.9 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13706.260 | 32.4 | 34.6 | 0.0 | 41.0 | 4.9 | 0.0 | V | | 0.0 | 43.7 | 83.5 | -39.8 |
| 14155.160 | 31.2 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | V | | 0.0 | 43.0 | 83.5 | -40.5 |
| 13142.000 | 32.9 | 34.9 | 0.0 | 40.1 | 4.8 | 0.0 | H | | 0.0 | 42.9 | 83.5 | -40.6 |
| 16780.130 | 31.1 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | H | | 0.0 | 42.8 | 83.5 | -40.7 |
| 16657.290 | 30.8 | 34.2 | 0.0 | 40.0 | 5.8 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 15155.850 | 32.0 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 15149.850 | 31.9 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 16324.710 | 31.3 | 34.1 | 0.0 | 39.0 | 5.7 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 16339.690 | 31.2 | 34.1 | 0.0 | 39.0 | 5.7 | 0.0 | H | | 0.0 | 41.9 | 83.5 | -41.6 |
| 10724.760 | 34.1 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.3 | 83.5 | -42.2 |
| 15003.000 | 30.4 | 34.2 | 0.0 | 39.6 | 5.3 | 0.0 | V | | 0.0 | 41.1 | 83.5 | -42.4 |
| 15590.420 | 31.6 | 34.0 | 0.0 | 37.8 | 5.5 | 0.0 | V | | 0.0 | 40.9 | 83.5 | -42.6 |
| 10526.640 | 33.6 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 40.8 | 83.5 | -42.7 |
| 10611.910 | 33.6 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 11243.880 | 33.1 | 35.3 | 0.0 | 38.7 | 4.3 | 0.0 | H | | 0.0 | 40.8 | 83.5 | -42.7 |
| 10910.340 | 33.6 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

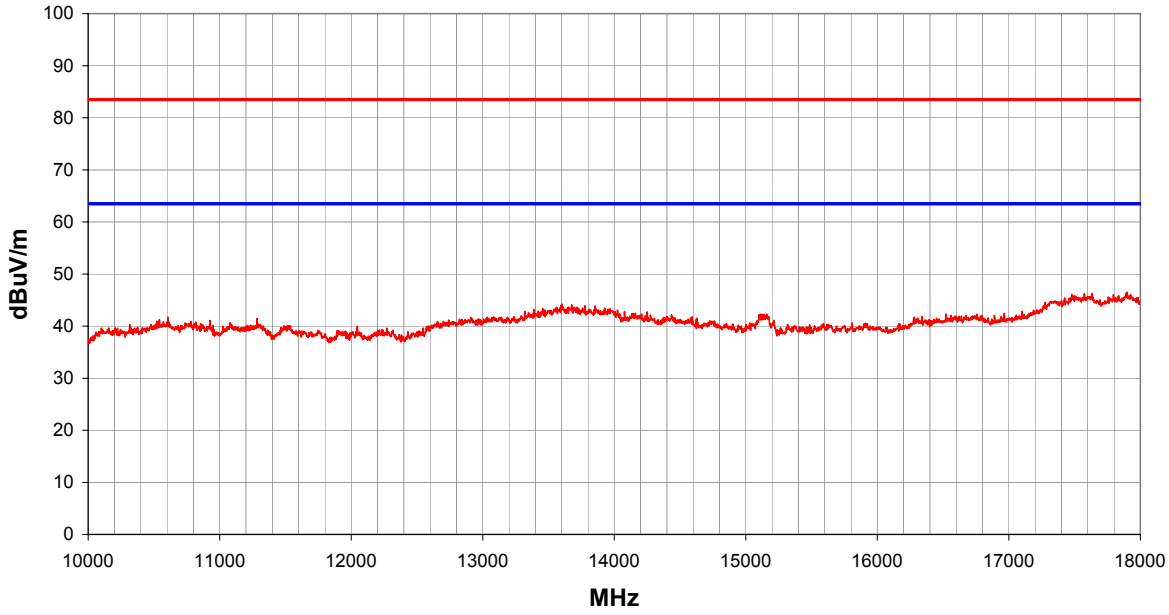
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 48 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17897.670 | 30.6 | 34.8 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 46.5 | 83.5 | -37.0 |
| 17891.680 | 30.4 | 34.8 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17634.020 | 30.6 | 34.7 | 0.0 | 44.4 | 6.0 | 0.0 | V | | 0.0 | 46.3 | 83.5 | -37.2 |
| 17478.220 | 30.7 | 34.6 | 0.0 | 44.0 | 6.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 13603.440 | 33.1 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | V | | 0.0 | 44.2 | 83.5 | -39.3 |
| 13676.160 | 32.8 | 34.6 | 0.0 | 41.0 | 4.9 | 0.0 | H | | 0.0 | 44.1 | 83.5 | -39.4 |
| 13854.220 | 32.2 | 34.6 | 0.0 | 41.3 | 5.0 | 0.0 | V | | 0.0 | 43.9 | 83.5 | -39.6 |
| 14077.410 | 30.9 | 34.5 | 0.0 | 41.3 | 5.0 | 0.0 | H | | 0.0 | 42.8 | 83.5 | -40.7 |
| 14250.450 | 31.1 | 34.4 | 0.0 | 41.0 | 5.1 | 0.0 | V | | 0.0 | 42.7 | 83.5 | -40.8 |
| 16522.470 | 31.0 | 34.2 | 0.0 | 39.7 | 5.8 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 15116.890 | 31.9 | 34.2 | 0.0 | 39.2 | 5.3 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16759.160 | 30.6 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | H | | 0.0 | 42.3 | 83.5 | -41.2 |
| 14436.030 | 30.8 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 15152.850 | 31.8 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 42.1 | 83.5 | -41.4 |
| 16339.690 | 31.2 | 34.1 | 0.0 | 39.0 | 5.7 | 0.0 | V | | 0.0 | 41.9 | 83.5 | -41.6 |
| 14400.920 | 30.4 | 34.4 | 0.0 | 40.7 | 5.1 | 0.0 | H | | 0.0 | 41.8 | 83.5 | -41.7 |
| 16279.750 | 31.3 | 34.0 | 0.0 | 38.8 | 5.7 | 0.0 | H | | 0.0 | 41.7 | 83.5 | -41.8 |
| 10606.890 | 34.5 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.7 | 83.5 | -41.8 |
| 11284.000 | 33.7 | 35.3 | 0.0 | 38.8 | 4.3 | 0.0 | H | | 0.0 | 41.5 | 83.5 | -42.0 |
| 10541.690 | 34.0 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 41.2 | 83.5 | -42.3 |
| 10925.380 | 33.9 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | H | | 0.0 | 41.1 | 83.5 | -42.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Greg Kiemel | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

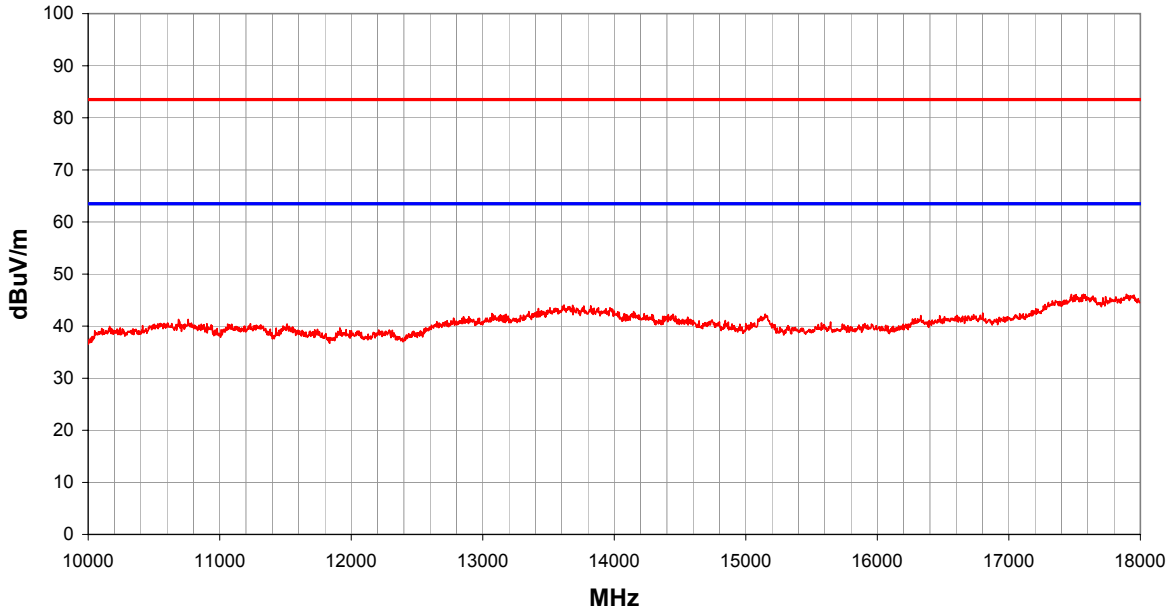
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 49 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17568.100 | 30.5 | 34.7 | 0.0 | 44.3 | 6.0 | 0.0 | V | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17894.680 | 30.2 | 34.8 | 0.0 | 44.7 | 6.1 | 0.0 | V | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17475.220 | 30.7 | 34.6 | 0.0 | 44.0 | 6.0 | 0.0 | H | | 0.0 | 46.1 | 83.5 | -37.4 |
| 17909.660 | 29.8 | 34.9 | 0.0 | 44.7 | 6.1 | 0.0 | H | | 0.0 | 45.7 | 83.5 | -37.8 |
| 13618.480 | 32.9 | 34.7 | 0.0 | 40.9 | 4.9 | 0.0 | H | | 0.0 | 44.0 | 83.5 | -39.5 |
| 13683.690 | 32.7 | 34.6 | 0.0 | 41.0 | 4.9 | 0.0 | V | | 0.0 | 44.0 | 83.5 | -39.5 |
| 14147.630 | 31.0 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | H | | 0.0 | 42.8 | 83.5 | -40.7 |
| 16801.100 | 30.8 | 34.3 | 0.0 | 40.2 | 5.8 | 0.0 | H | | 0.0 | 42.5 | 83.5 | -41.0 |
| 14147.630 | 30.7 | 34.5 | 0.0 | 41.2 | 5.0 | 0.0 | V | | 0.0 | 42.5 | 83.5 | -41.0 |
| 15146.860 | 32.0 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 14446.060 | 30.9 | 34.4 | 0.0 | 40.6 | 5.1 | 0.0 | V | | 0.0 | 42.3 | 83.5 | -41.2 |
| 16732.190 | 30.6 | 34.3 | 0.0 | 40.1 | 5.8 | 0.0 | V | | 0.0 | 42.2 | 83.5 | -41.3 |
| 16330.700 | 31.4 | 34.1 | 0.0 | 39.0 | 5.7 | 0.0 | V | | 0.0 | 42.0 | 83.5 | -41.5 |
| 15152.850 | 31.6 | 34.2 | 0.0 | 39.1 | 5.3 | 0.0 | H | | 0.0 | 41.9 | 83.5 | -41.6 |
| 12893.730 | 32.4 | 35.0 | 0.0 | 39.6 | 4.8 | 0.0 | V | | 0.0 | 41.8 | 83.5 | -41.7 |
| 10687.140 | 34.1 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | H | | 0.0 | 41.3 | 83.5 | -42.2 |
| 10759.870 | 34.1 | 35.2 | 0.0 | 38.2 | 4.2 | 0.0 | H | | 0.0 | 41.3 | 83.5 | -42.2 |
| 14744.490 | 30.2 | 34.3 | 0.0 | 40.1 | 5.2 | 0.0 | H | | 0.0 | 41.2 | 83.5 | -42.3 |
| 14844.800 | 30.2 | 34.2 | 0.0 | 39.9 | 5.3 | 0.0 | V | | 0.0 | 41.1 | 83.5 | -42.4 |
| 15644.370 | 31.5 | 34.0 | 0.0 | 37.8 | 5.5 | 0.0 | V | | 0.0 | 40.8 | 83.5 | -42.7 |
| 10604.380 | 33.4 | 35.2 | 0.0 | 38.3 | 4.1 | 0.0 | V | | 0.0 | 40.6 | 83.5 | -42.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

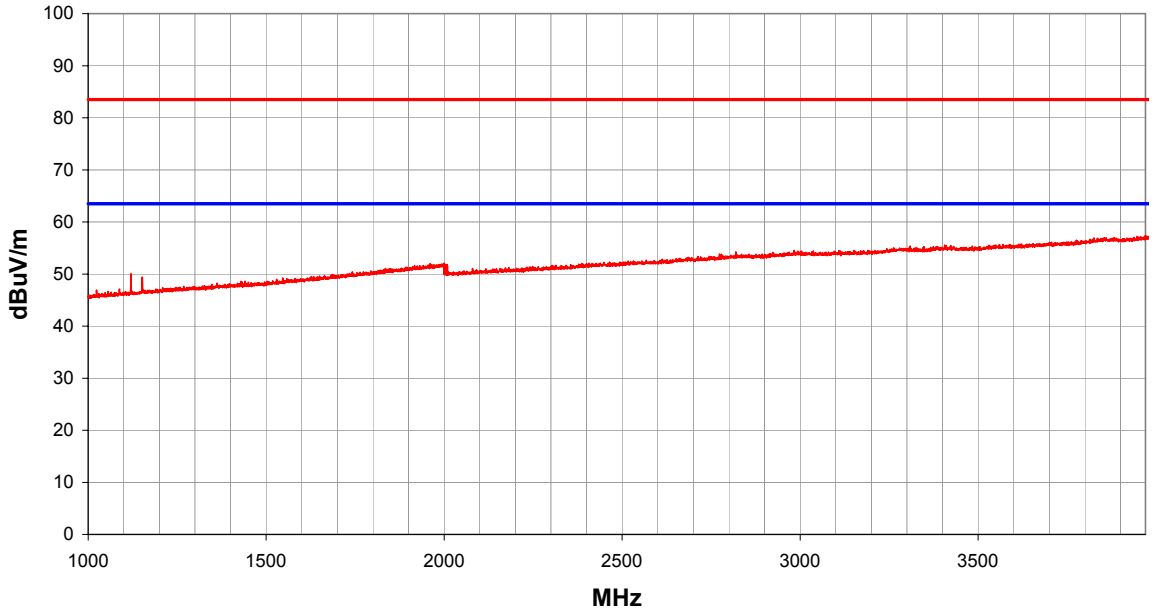
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 50 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3998.790 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.5 | 83.5 | -26.0 |
| 3996.750 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.5 | 83.5 | -26.0 |
| 1999.810 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 1999.810 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2007.460 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2003.890 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2008.480 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 2006.950 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1120.362 | 22.7 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 50.1 | 83.5 | -33.4 |
| 1151.983 | 21.9 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.4 | 83.5 | -34.1 |
| 1151.983 | 21.2 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.7 | 83.5 | -34.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

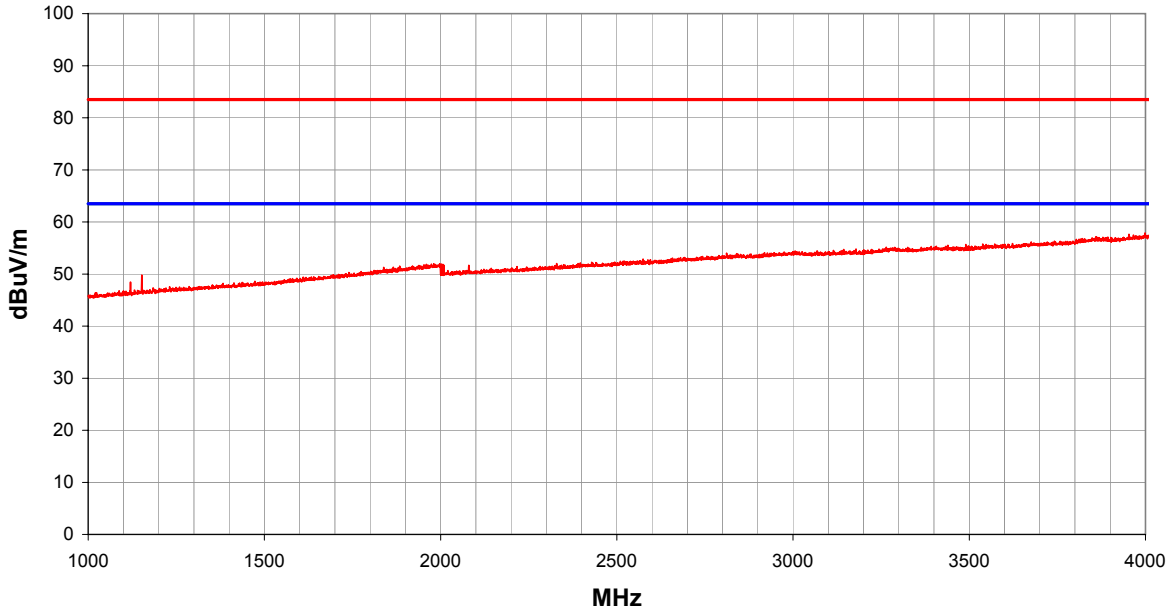
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 51 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3998.790 | 19.5 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.9 | 83.5 | -25.6 |
| 3953.399 | 19.4 | 0.0 | 0.0 | 34.4 | 3.9 | 0.0 | V | | 0.0 | 57.6 | 83.5 | -25.9 |
| 1980.429 | 20.5 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | V | | 0.0 | 52.0 | 83.5 | -31.5 |
| 1997.260 | 20.4 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.0 | 83.5 | -31.5 |
| 2001.850 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2006.950 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2002.360 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2008.990 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 2006.440 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1151.983 | 22.3 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.8 | 83.5 | -33.7 |
| 1151.983 | 21.4 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.9 | 83.5 | -34.6 |
| 1120.362 | 21.1 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.5 | 83.5 | -35.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

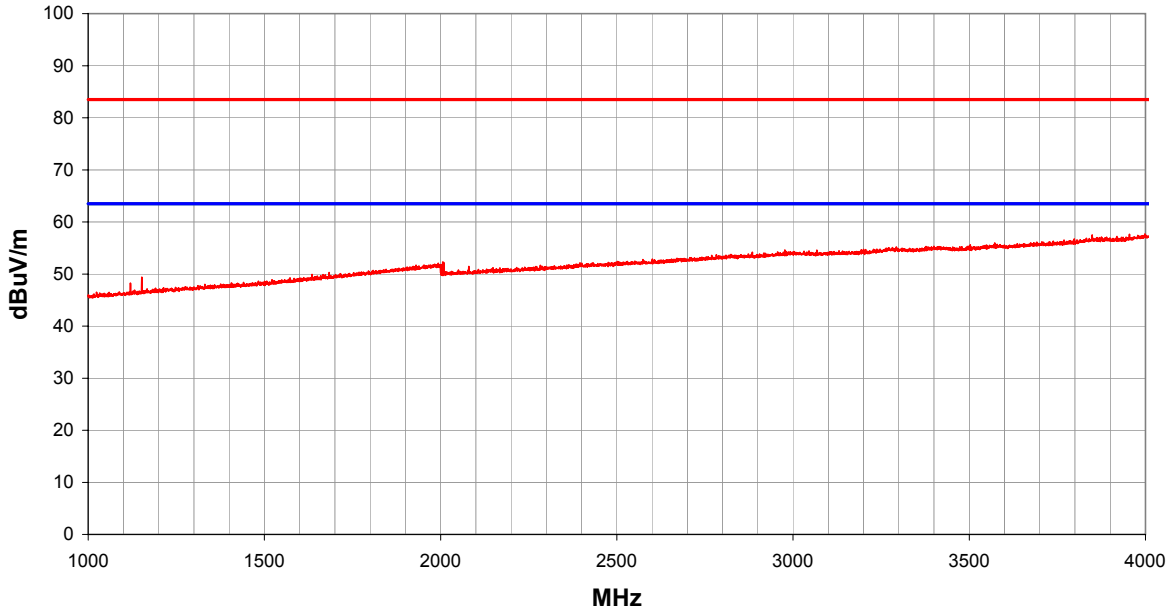
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 52 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3998.280 | 19.3 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.7 | 83.5 | -25.8 |
| 3848.847 | 19.7 | 0.0 | 0.0 | 34.0 | 3.8 | 0.0 | H | | 0.0 | 57.5 | 83.5 | -26.0 |
| 2005.930 | 20.7 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.3 | 83.5 | -31.2 |
| 2008.990 | 20.6 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.2 | 83.5 | -31.3 |
| 2006.440 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 1993.179 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 2007.460 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 1983.489 | 20.4 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2005.930 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2003.890 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2000.830 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1151.983 | 21.9 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 49.4 | 83.5 | -34.1 |
| 1151.983 | 21.5 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.0 | 83.5 | -34.5 |
| 1119.852 | 20.9 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

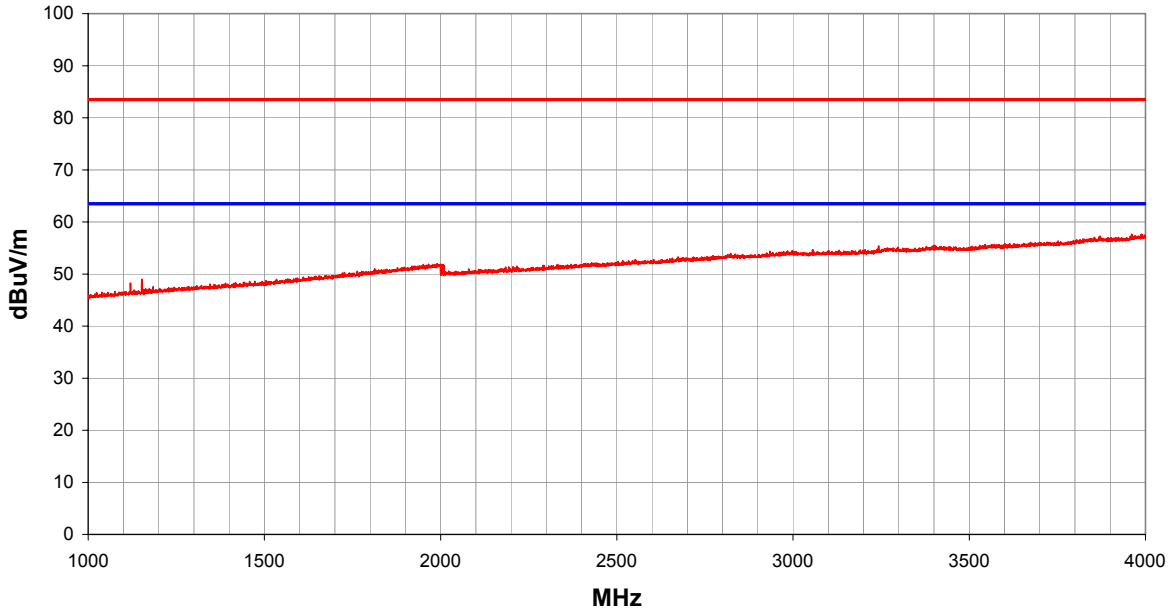
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 53 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4003.890 | 19.3 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.7 | 83.5 | -25.8 |
| 4005.930 | 19.3 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.7 | 83.5 | -25.8 |
| 1991.139 | 20.4 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 1988.589 | 20.4 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2007.460 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2004.910 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2002.360 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2006.440 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1151.983 | 21.5 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 49.0 | 83.5 | -34.5 |
| 1151.983 | 21.5 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.0 | 83.5 | -34.5 |
| 1119.852 | 20.9 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.3 | 83.5 | -35.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

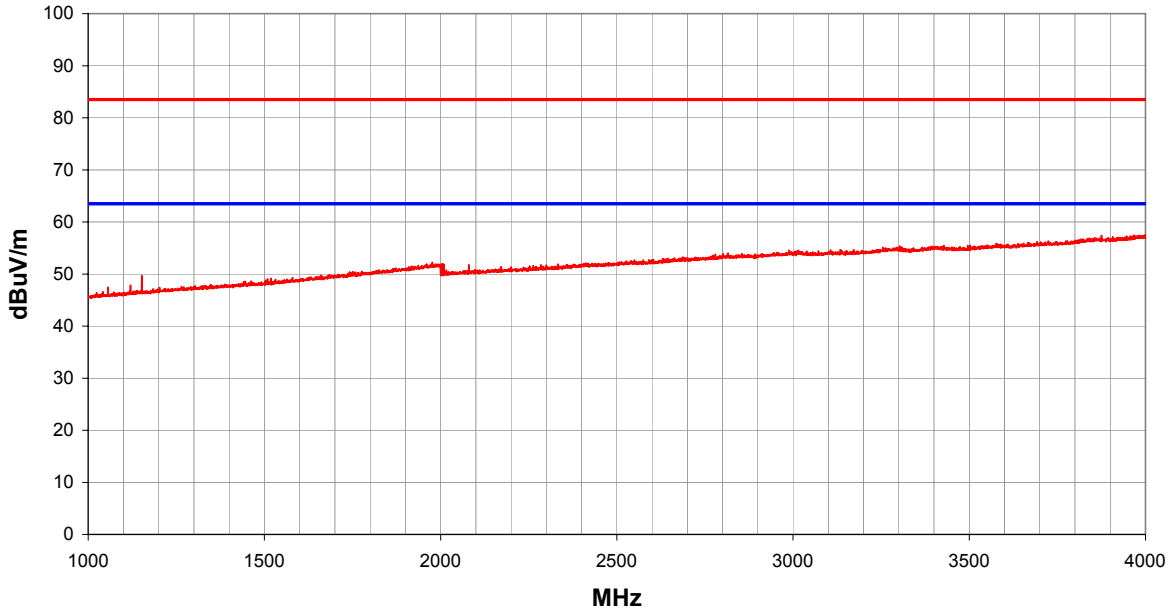
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 54 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3999.300 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.5 | 83.5 | -26.0 |
| 3875.367 | 19.5 | 0.0 | 0.0 | 34.1 | 3.8 | 0.0 | H | | 0.0 | 57.4 | 83.5 | -26.1 |
| 1976.349 | 20.8 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | V | | 0.0 | 52.3 | 83.5 | -31.2 |
| 2006.440 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2004.910 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2001.850 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 1993.179 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2008.990 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2007.970 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2005.930 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2008.480 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1151.983 | 22.2 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.7 | 83.5 | -33.8 |
| 1151.983 | 20.8 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.3 | 83.5 | -35.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting on radio b

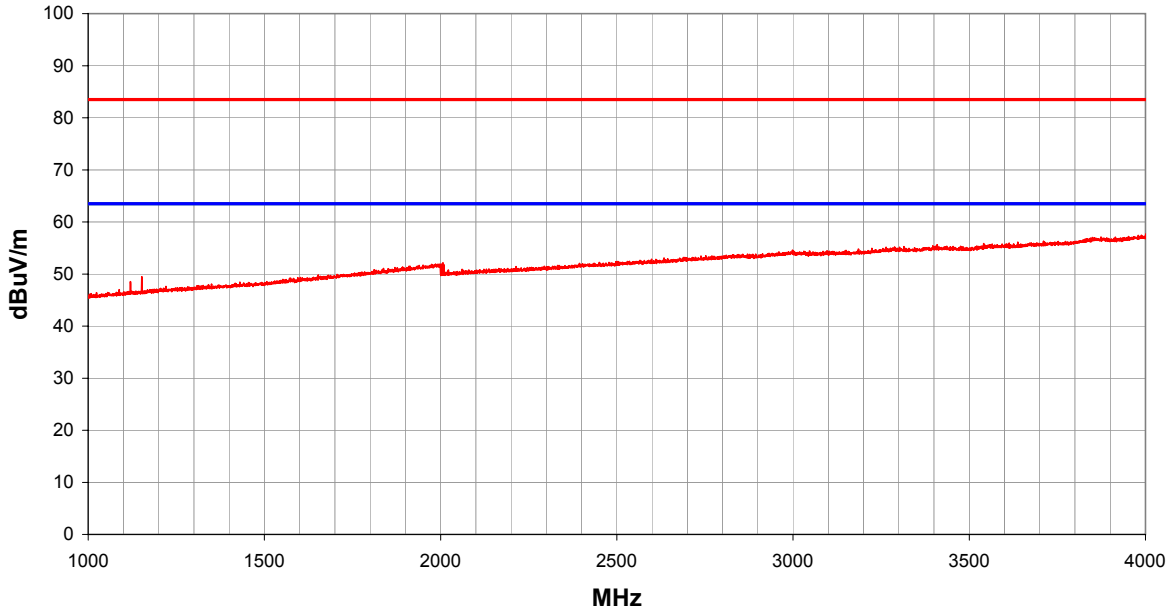
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 55 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4003.380 | 19.4 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.8 | 83.5 | -25.7 |
| 4000.320 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.5 | 83.5 | -26.0 |
| 2006.440 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 1985.529 | 20.4 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2001.850 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 1997.770 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2008.990 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 1151.983 | 22.0 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.5 | 83.5 | -34.0 |
| 1119.852 | 21.2 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.6 | 83.5 | -34.9 |
| 1151.983 | 20.7 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.2 | 83.5 | -35.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

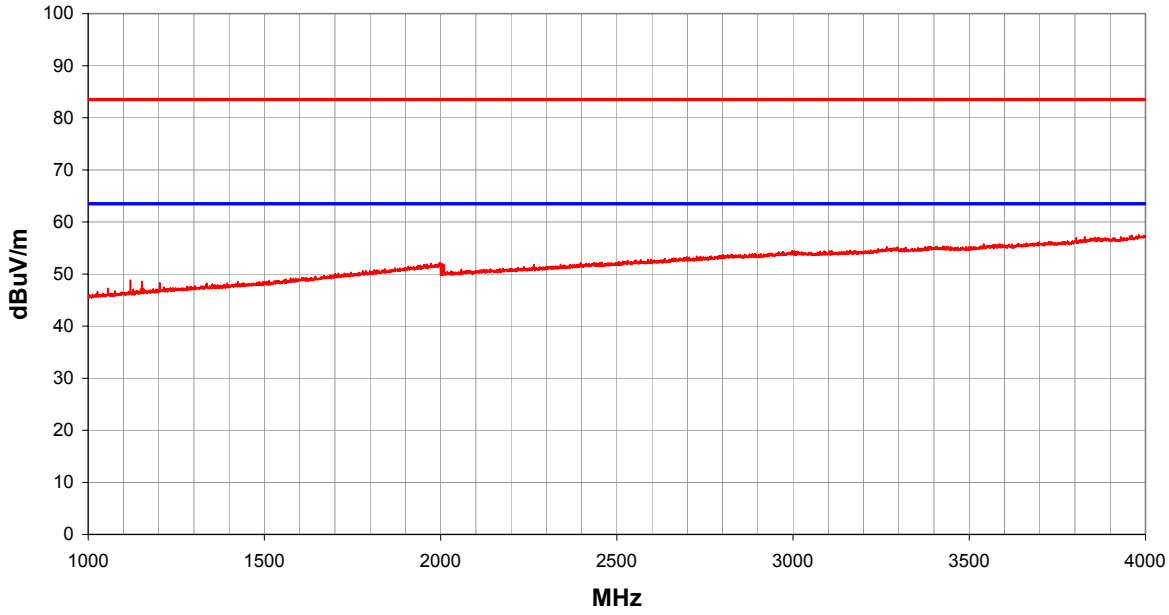
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 56 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3980.939 | 19.2 | 0.0 | 0.0 | 34.4 | 3.9 | 0.0 | H | | 0.0 | 57.5 | 83.5 | -26.0 |
| 3999.810 | 19.0 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.4 | 83.5 | -26.1 |
| 1998.280 | 20.6 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.2 | 83.5 | -31.3 |
| 1999.300 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 2003.890 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2008.480 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2008.480 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2004.910 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2001.850 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1119.852 | 21.5 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.9 | 83.5 | -34.6 |
| 1151.983 | 21.1 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 48.6 | 83.5 | -34.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

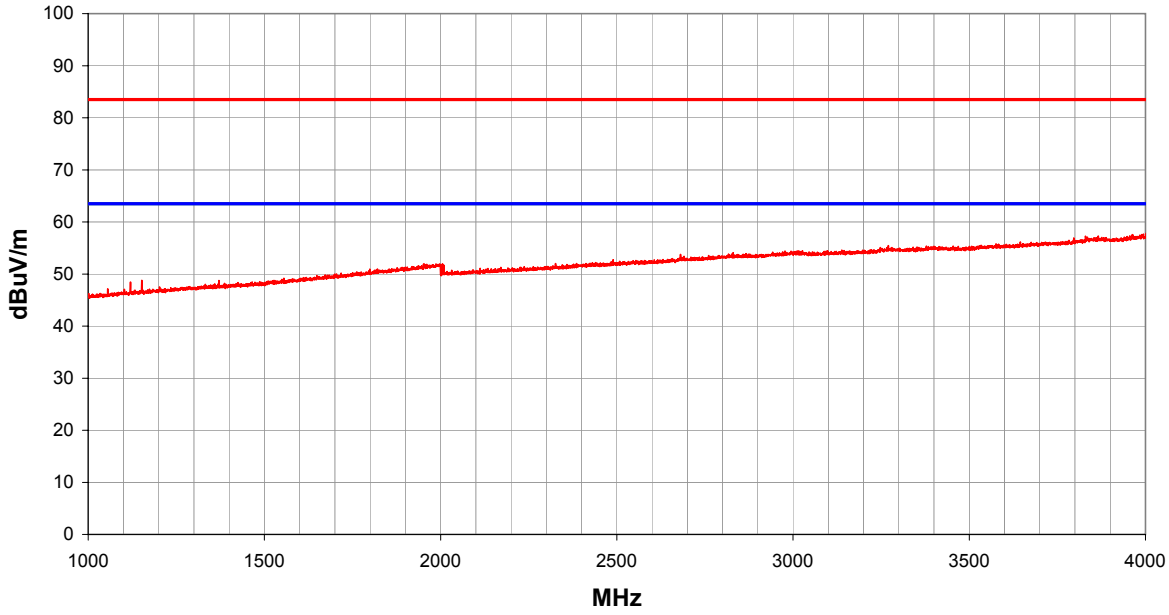
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 57 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4001.850 | 19.4 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.8 | 83.5 | -25.7 |
| 3994.199 | 19.3 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.7 | 83.5 | -25.8 |
| 1953.909 | 20.6 | 0.0 | 0.0 | 28.9 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 1986.549 | 20.4 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2004.910 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2006.440 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2005.420 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2001.340 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.8 | 83.5 | -31.7 |
| 1151.983 | 21.3 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 48.8 | 83.5 | -34.7 |
| 1120.362 | 21.1 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.5 | 83.5 | -35.0 |
| 1151.983 | 20.6 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.1 | 83.5 | -35.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting on radio a

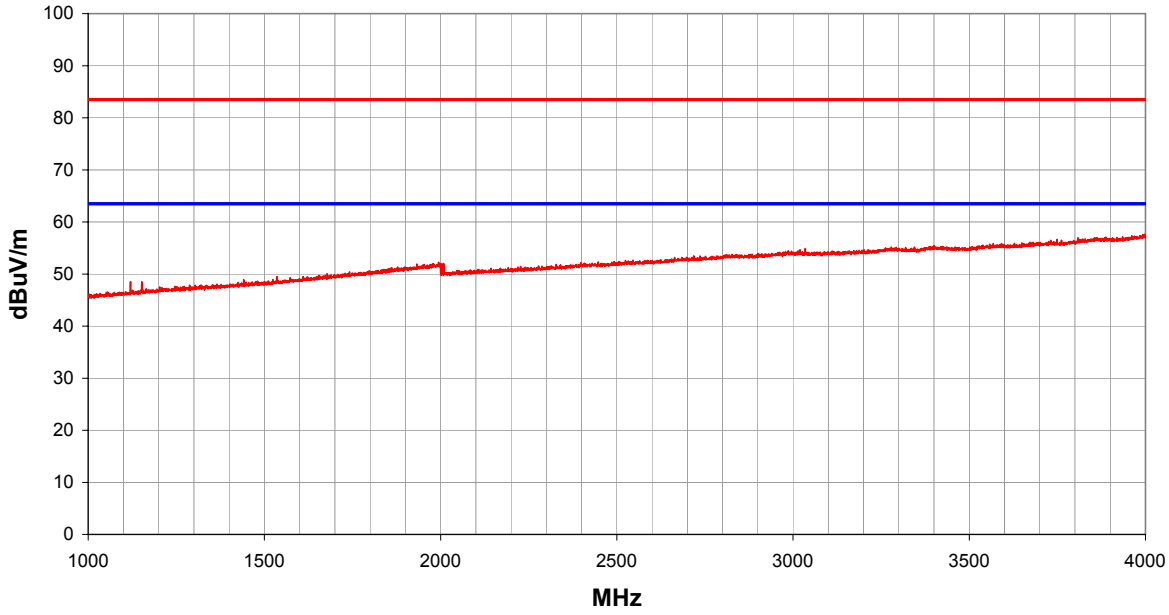
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 58 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4006.440 | 19.2 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.6 | 83.5 | -25.9 |
| 3998.280 | 19.0 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.4 | 83.5 | -26.1 |
| 1994.199 | 20.7 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.3 | 83.5 | -31.2 |
| 2008.480 | 20.4 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.0 | 83.5 | -31.5 |
| 1977.369 | 20.5 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | V | | 0.0 | 52.0 | 83.5 | -31.5 |
| 2003.890 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2000.320 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2008.990 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1120.362 | 21.2 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.6 | 83.5 | -34.9 |
| 1151.983 | 21.0 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 48.5 | 83.5 | -35.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

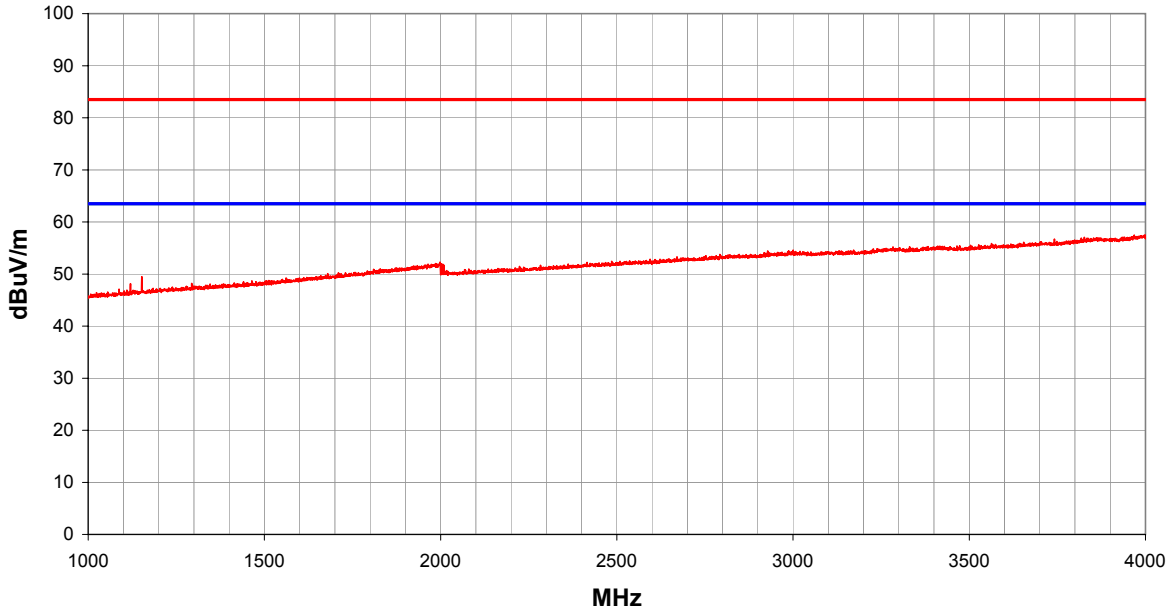
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 59 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3998.280 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.5 | 83.5 | -26.0 |
| 4000.320 | 19.0 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.4 | 83.5 | -26.1 |
| 1998.280 | 20.7 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.3 | 83.5 | -31.2 |
| 1997.260 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.1 | 83.5 | -31.4 |
| 2003.890 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2002.360 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2007.970 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2002.870 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 1151.983 | 22.0 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.5 | 83.5 | -34.0 |
| 1119.852 | 20.8 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.2 | 83.5 | -35.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

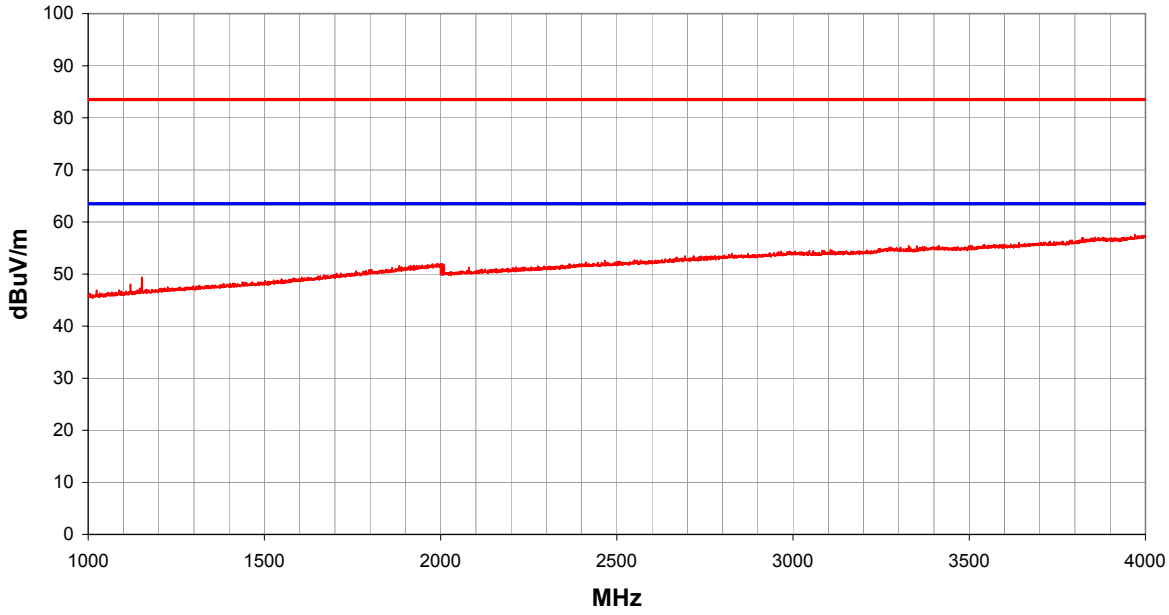
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 60 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3970.229 | 19.3 | 0.0 | 0.0 | 34.4 | 3.9 | 0.0 | H | | 0.0 | 57.6 | 83.5 | -25.9 |
| 4006.950 | 19.1 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | V | | 0.0 | 57.5 | 83.5 | -26.0 |
| 1990.629 | 20.5 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 52.0 | 83.5 | -31.5 |
| 2004.910 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2004.400 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2000.830 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2008.990 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2003.890 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 2007.970 | 20.1 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.7 | 83.5 | -31.8 |
| 1151.983 | 21.9 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 49.4 | 83.5 | -34.1 |
| 1151.983 | 20.7 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.2 | 83.5 | -35.3 |
| 1119.852 | 20.7 | 0.0 | 0.0 | 25.3 | 2.0 | 0.0 | V | | 0.0 | 48.1 | 83.5 | -35.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Don Facteau | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting on radio b

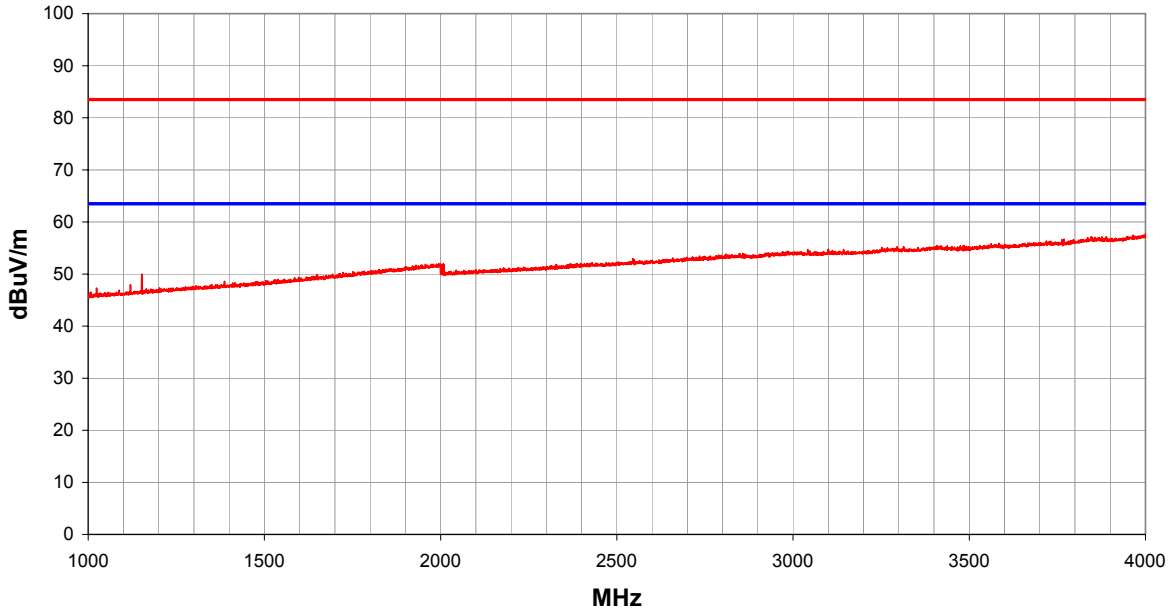
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 1 | 61 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3999.810 | 19.3 | 0.0 | 0.0 | 34.5 | 3.9 | 0.0 | H | | 0.0 | 57.7 | 83.5 | -25.8 |
| 3964.619 | 19.2 | 0.0 | 0.0 | 34.4 | 3.9 | 0.0 | V | | 0.0 | 57.5 | 83.5 | -26.0 |
| 1995.219 | 20.4 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 52.0 | 83.5 | -31.5 |
| 1988.589 | 20.4 | 0.0 | 0.0 | 29.0 | 2.5 | 0.0 | H | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2007.970 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2000.320 | 20.3 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | V | | 0.0 | 51.9 | 83.5 | -31.6 |
| 2007.460 | 20.2 | 0.0 | 0.0 | 29.1 | 2.5 | 0.0 | H | | 0.0 | 51.8 | 83.5 | -31.7 |
| 1151.983 | 22.5 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | V | | 0.0 | 50.0 | 83.5 | -33.5 |
| 1151.983 | 20.8 | 0.0 | 0.0 | 25.4 | 2.1 | 0.0 | H | | 0.0 | 48.3 | 83.5 | -35.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

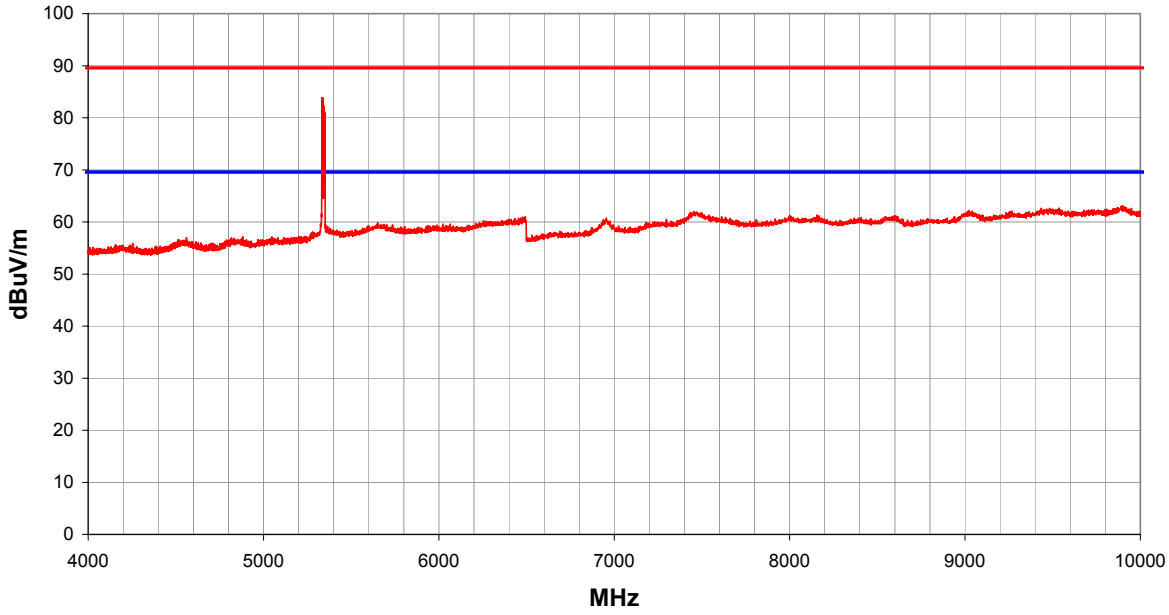
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 62 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5337.715 | 46.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 83.9 | 89.6 | -5.7 |
| 5332.717 | 46.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 83.9 | 89.6 | -5.7 |
| 5335.216 | 46.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 83.4 | 89.6 | -6.2 |
| 5340.214 | 46.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 83.1 | 89.6 | -6.5 |
| 5342.713 | 45.2 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 82.3 | 89.6 | -7.3 |
| 5345.212 | 44.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 81.8 | 89.6 | -7.8 |
| 5347.711 | 44.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 81.1 | 89.6 | -8.5 |
| 5350.210 | 43.7 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 80.8 | 89.6 | -8.8 |
| 5335.216 | 41.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 78.1 | 89.6 | -11.5 |
| 5342.713 | 40.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 77.7 | 89.6 | -11.9 |
| 5340.214 | 40.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 77.7 | 89.6 | -11.9 |
| 5337.715 | 40.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 77.7 | 89.6 | -11.9 |
| 5347.711 | 40.5 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 77.6 | 89.6 | -12.0 |
| 5332.717 | 40.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 77.5 | 89.6 | -12.1 |
| 5350.210 | 40.2 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 77.3 | 89.6 | -12.3 |
| 5345.212 | 39.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 76.9 | 89.6 | -12.7 |
| 9893.000 | 21.1 | 0.0 | 0.0 | 38.0 | 4.0 | 0.0 | V | | 0.0 | 63.1 | 89.6 | -26.5 |
| 9904.000 | 20.9 | 0.0 | 0.0 | 38.0 | 4.0 | 0.0 | H | | 0.0 | 62.9 | 89.6 | -26.7 |
| 9537.000 | 21.4 | 0.0 | 0.0 | 37.4 | 3.9 | 0.0 | V | | 0.0 | 62.7 | 89.6 | -26.9 |
| 9024.000 | 20.0 | 0.0 | 0.0 | 38.4 | 3.8 | 0.0 | H | | 0.0 | 62.2 | 89.6 | -27.4 |
| 9041.000 | 19.9 | 0.0 | 0.0 | 38.4 | 3.8 | 0.0 | V | | 0.0 | 62.1 | 89.6 | -27.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

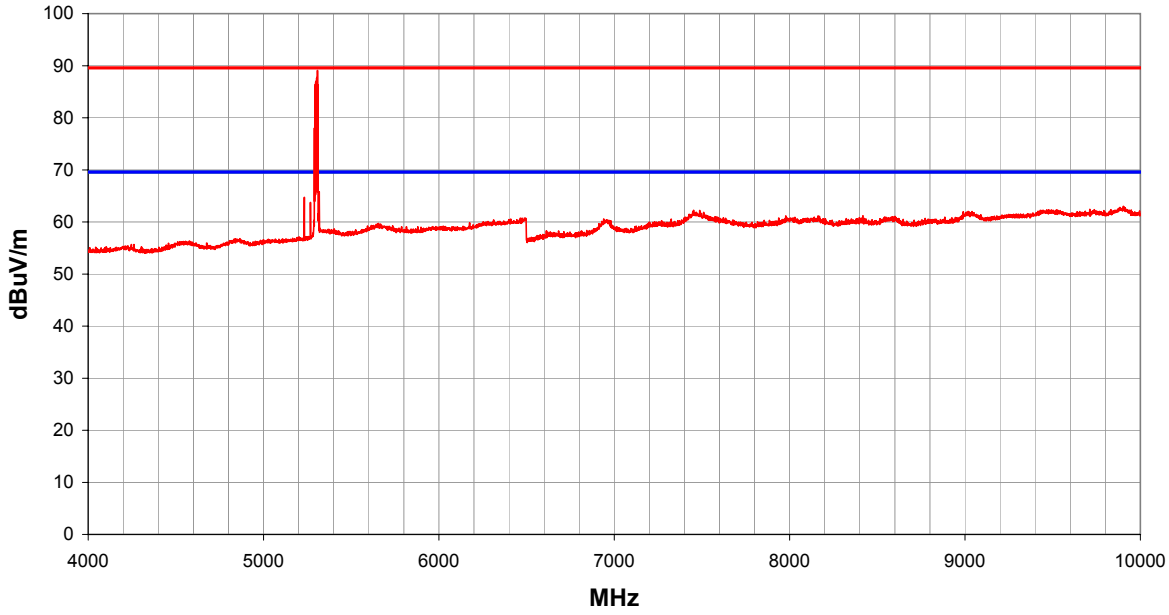
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 63 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5307.727 | 52.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 89.1 | 89.6 | -0.5 |
| 5305.228 | 50.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 87.8 | 89.6 | -1.8 |
| 5302.729 | 50.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 87.7 | 89.6 | -1.9 |
| 5300.230 | 50.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 87.1 | 89.6 | -2.5 |
| 5297.731 | 49.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.8 | 89.6 | -2.8 |
| 5295.232 | 49.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.4 | 89.6 | -3.2 |
| 5310.226 | 49.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.3 | 89.6 | -3.3 |
| 5292.733 | 49.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 85.9 | 89.6 | -3.7 |
| 5305.228 | 46.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 83.1 | 89.6 | -6.5 |
| 5302.729 | 46.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 83.0 | 89.6 | -6.6 |
| 5307.727 | 45.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 82.7 | 89.6 | -6.9 |
| 5300.230 | 45.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 82.7 | 89.6 | -6.9 |
| 5297.731 | 45.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 82.6 | 89.6 | -7.0 |
| 5310.226 | 44.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 81.3 | 89.6 | -8.3 |
| 5295.232 | 44.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 80.9 | 89.6 | -8.7 |
| 5292.733 | 43.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 80.7 | 89.6 | -8.9 |
| 5290.234 | 41.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 78.0 | 89.6 | -11.6 |
| 5317.723 | 28.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 65.8 | 89.6 | -23.8 |
| 5232.323 | 28.0 | 0.0 | 0.0 | 33.8 | 2.9 | 0.0 | V | | 0.0 | 64.7 | 89.6 | -24.9 |
| 5267.743 | 26.9 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 63.8 | 89.6 | -25.8 |
| 9903.000 | 21.0 | 0.0 | 0.0 | 38.0 | 4.0 | 0.0 | H | | 0.0 | 63.0 | 89.6 | -26.6 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

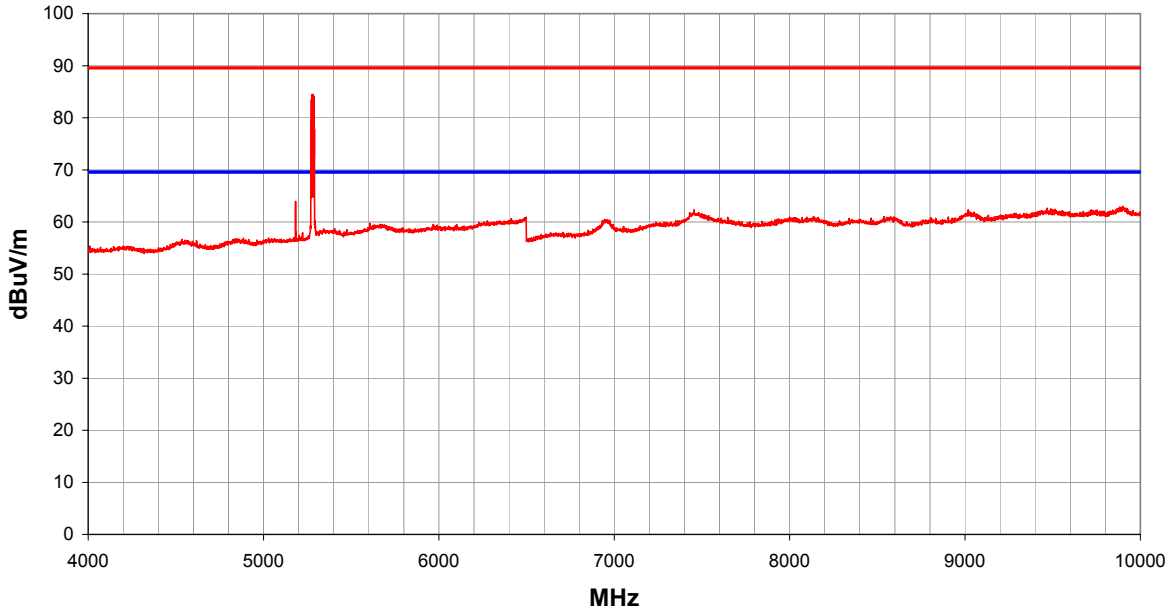
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 64 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5282.737 | 47.6 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 84.5 | 89.6 | -5.1 |
| 5277.739 | 47.6 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 84.5 | 89.6 | -5.1 |
| 5280.238 | 47.4 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 84.3 | 89.6 | -5.3 |
| 5275.240 | 47.4 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 84.3 | 89.6 | -5.3 |
| 5285.236 | 47.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 84.2 | 89.6 | -5.4 |
| 5287.735 | 46.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 83.8 | 89.6 | -5.8 |
| 5272.741 | 46.6 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 83.5 | 89.6 | -6.1 |
| 5282.737 | 43.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 80.0 | 89.6 | -9.6 |
| 5275.240 | 43.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 80.0 | 89.6 | -9.6 |
| 5285.236 | 42.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 79.8 | 89.6 | -9.8 |
| 5277.739 | 42.8 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 79.7 | 89.6 | -9.9 |
| 5280.238 | 42.7 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 79.6 | 89.6 | -10.0 |
| 5287.735 | 42.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 79.3 | 89.6 | -10.3 |
| 5272.741 | 42.3 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 79.2 | 89.6 | -10.4 |
| 5270.242 | 42.3 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 79.2 | 89.6 | -10.4 |
| 5290.234 | 40.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 77.8 | 89.6 | -11.8 |
| 5270.242 | 37.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 74.3 | 89.6 | -15.3 |
| 5290.234 | 35.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 71.9 | 89.6 | -17.7 |
| 5182.381 | 27.4 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | H | | 0.0 | 64.0 | 89.6 | -25.6 |
| 9901.000 | 21.0 | 0.0 | 0.0 | 38.0 | 4.0 | 0.0 | V | | 0.0 | 63.0 | 89.6 | -26.6 |
| 9897.000 | 20.9 | 0.0 | 0.0 | 38.0 | 4.0 | 0.0 | H | | 0.0 | 62.9 | 89.6 | -26.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

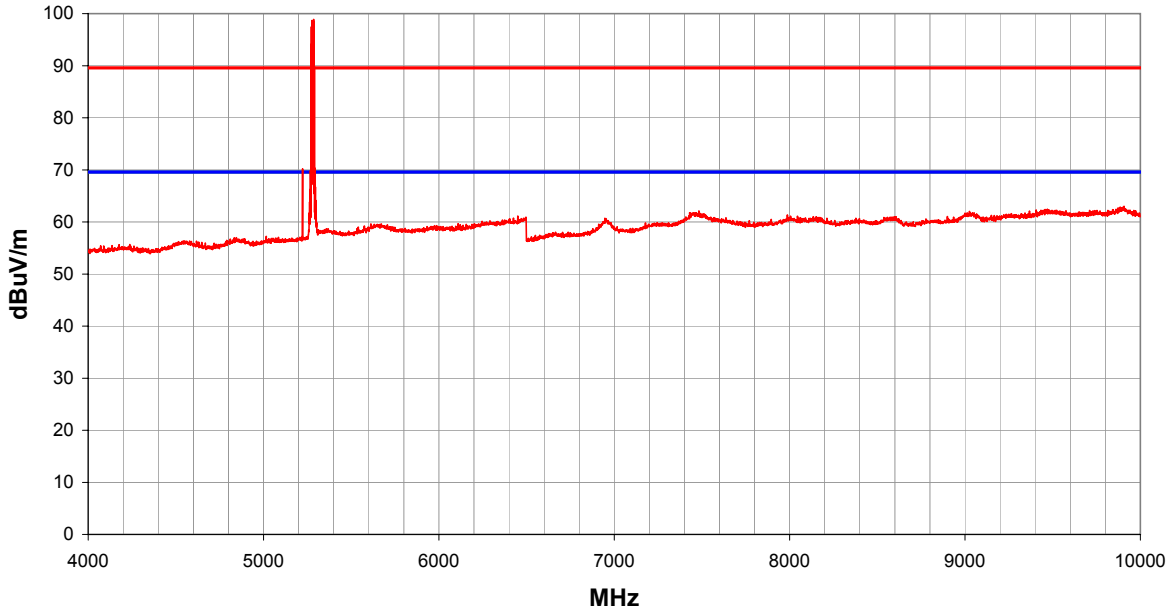
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 65 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5285.236 | 62.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.9 | 89.6 | 9.3 |
| 5275.240 | 61.8 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 98.7 | 89.6 | 9.1 |
| 5282.737 | 61.7 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 98.6 | 89.6 | 9.0 |
| 5287.735 | 61.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.4 | 89.6 | 8.8 |
| 5277.739 | 61.5 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 98.4 | 89.6 | 8.8 |
| 5280.238 | 61.2 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 98.1 | 89.6 | 8.5 |
| 5272.741 | 60.6 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 97.5 | 89.6 | 7.9 |
| 5270.242 | 57.2 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 94.1 | 89.6 | 4.5 |
| 5290.234 | 52.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 89.8 | 89.6 | 0.2 |
| 5282.737 | 50.4 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 87.3 | 89.6 | -2.3 |
| 5285.236 | 49.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 86.7 | 89.6 | -2.9 |
| 5280.238 | 49.8 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 86.7 | 89.6 | -2.9 |
| 5277.739 | 49.8 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 86.7 | 89.6 | -2.9 |
| 5287.735 | 49.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 86.4 | 89.6 | -3.2 |
| 5272.741 | 49.5 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 86.4 | 89.6 | -3.2 |
| 5275.240 | 49.2 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 86.1 | 89.6 | -3.5 |
| 5290.234 | 46.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 83.4 | 89.6 | -6.2 |
| 5270.242 | 42.6 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 79.5 | 89.6 | -10.1 |
| 5292.733 | 33.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 70.3 | 89.6 | -19.3 |
| 5222.334 | 33.5 | 0.0 | 0.0 | 33.8 | 2.9 | 0.0 | H | | 0.0 | 70.2 | 89.6 | -19.4 |
| 5267.743 | 33.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 69.9 | 89.6 | -19.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

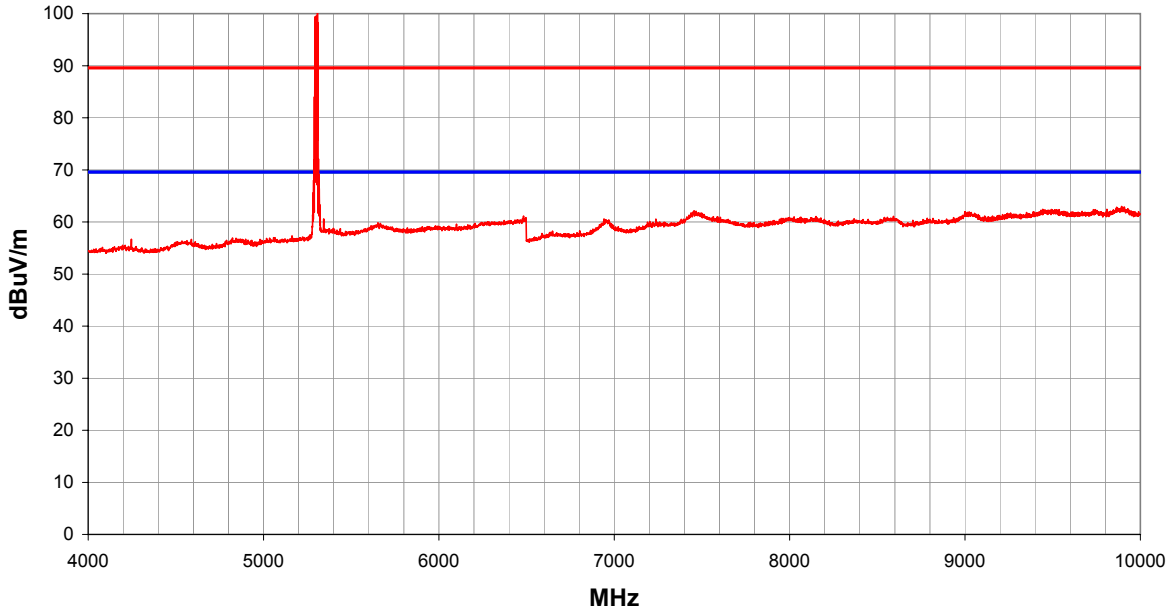
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 66 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5307.727 | 63.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 100.1 | 89.6 | 10.5 |
| 5302.729 | 62.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.6 | 89.6 | 10.0 |
| 5297.731 | 62.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.4 | 89.6 | 9.8 |
| 5295.232 | 62.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.4 | 89.6 | 9.8 |
| 5305.228 | 62.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.3 | 89.6 | 9.7 |
| 5300.230 | 62.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.3 | 89.6 | 9.7 |
| 5292.733 | 61.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.7 | 89.6 | 9.1 |
| 5310.226 | 61.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.3 | 89.6 | 8.7 |
| 5302.729 | 52.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 89.1 | 89.6 | -0.5 |
| 5307.727 | 52.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 89.0 | 89.6 | -0.6 |
| 5297.731 | 51.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 88.8 | 89.6 | -0.8 |
| 5305.228 | 51.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 88.5 | 89.6 | -1.1 |
| 5295.232 | 51.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 88.4 | 89.6 | -1.2 |
| 5300.230 | 51.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 88.4 | 89.6 | -1.2 |
| 5292.733 | 50.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 87.2 | 89.6 | -2.4 |
| 5310.226 | 48.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 85.0 | 89.6 | -4.6 |
| 5290.234 | 47.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 84.0 | 89.6 | -5.6 |
| 5290.234 | 37.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 74.7 | 89.6 | -14.9 |
| 5312.725 | 35.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 72.1 | 89.6 | -17.5 |
| 5287.735 | 34.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 71.8 | 89.6 | -17.8 |
| 5315.224 | 32.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 69.1 | 89.6 | -20.5 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

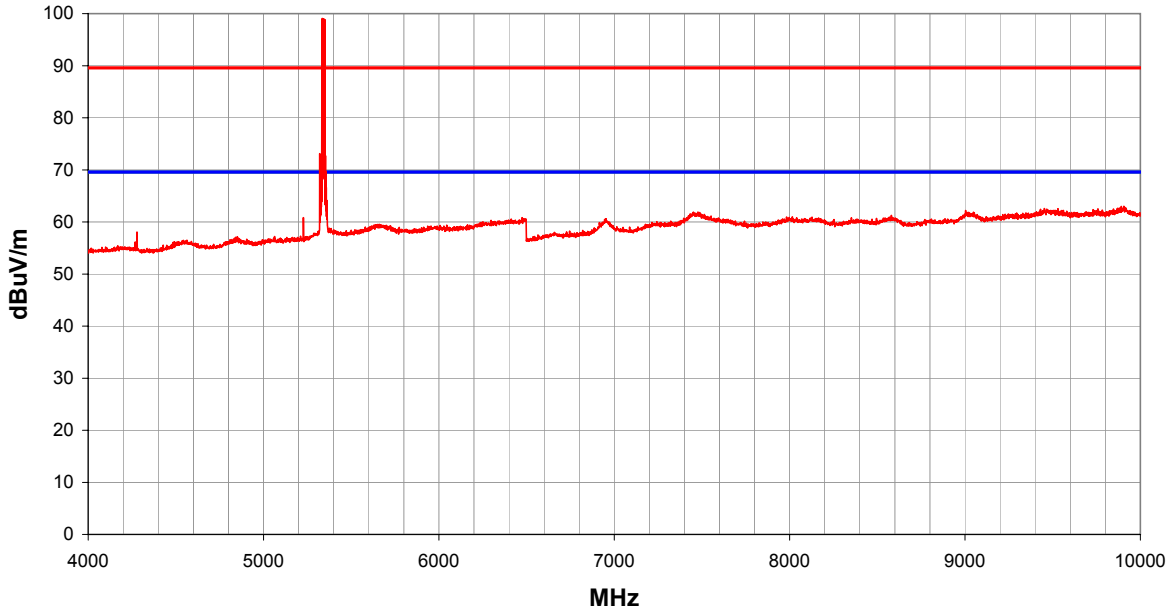
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 67 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5335.216 | 62.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 99.1 | 89.6 | 9.5 |
| 5342.713 | 61.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 99.0 | 89.6 | 9.4 |
| 5345.212 | 61.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 98.9 | 89.6 | 9.3 |
| 5350.210 | 61.7 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 98.8 | 89.6 | 9.2 |
| 5347.711 | 61.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 98.7 | 89.6 | 9.1 |
| 5340.214 | 61.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 98.7 | 89.6 | 9.1 |
| 5337.715 | 61.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 98.7 | 89.6 | 9.1 |
| 5332.717 | 60.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.9 | 89.6 | 8.3 |
| 5345.212 | 54.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.1 | 89.6 | 1.5 |
| 5337.715 | 54.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.1 | 89.6 | 1.5 |
| 5347.711 | 53.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.0 | 89.6 | 1.4 |
| 5340.214 | 53.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.9 | 89.6 | 1.3 |
| 5342.713 | 53.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.8 | 89.6 | 1.2 |
| 5350.210 | 53.5 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5335.216 | 53.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.5 | 89.6 | 0.9 |
| 5332.717 | 53.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.4 | 89.6 | 0.8 |
| 5320.222 | 36.1 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 73.1 | 89.6 | -16.5 |
| 5352.709 | 35.6 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 72.7 | 89.6 | -16.9 |
| 5330.218 | 34.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 71.4 | 89.6 | -18.2 |
| 5355.208 | 32.5 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 69.6 | 89.6 | -20.0 |
| 5327.719 | 31.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 68.3 | 89.6 | -21.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting radio b

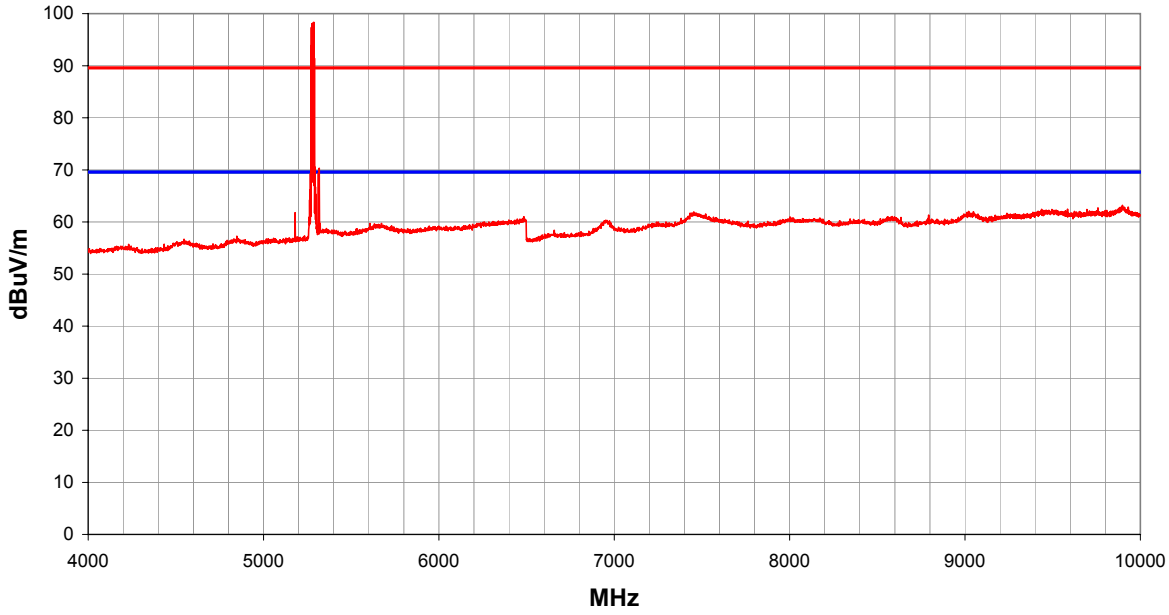
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 68 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5287.735 | 61.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 98.3 | 89.6 | 8.7 |
| 5285.236 | 61.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 98.3 | 89.6 | 8.7 |
| 5282.737 | 61.3 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 98.2 | 89.6 | 8.6 |
| 5280.238 | 61.2 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 98.1 | 89.6 | 8.5 |
| 5277.739 | 61.2 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 98.1 | 89.6 | 8.5 |
| 5275.240 | 61.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 98.0 | 89.6 | 8.4 |
| 5272.741 | 60.5 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 97.4 | 89.6 | 7.8 |
| 5270.242 | 57.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 93.9 | 89.6 | 4.3 |
| 5290.234 | 54.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 91.4 | 89.6 | 1.8 |
| 5285.236 | 50.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 87.3 | 89.6 | -2.3 |
| 5282.737 | 49.5 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 86.4 | 89.6 | -3.2 |
| 5287.735 | 49.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.2 | 89.6 | -3.4 |
| 5275.240 | 49.3 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 86.2 | 89.6 | -3.4 |
| 5280.238 | 49.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 86.0 | 89.6 | -3.6 |
| 5277.739 | 49.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 86.0 | 89.6 | -3.6 |
| 5272.741 | 48.5 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 85.4 | 89.6 | -4.2 |
| 5270.242 | 43.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 79.9 | 89.6 | -9.7 |
| 5290.234 | 42.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 79.4 | 89.6 | -10.2 |
| 5292.733 | 33.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 70.5 | 89.6 | -19.1 |
| 5317.723 | 33.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 70.3 | 89.6 | -19.3 |
| 5312.725 | 32.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 69.4 | 89.6 | -20.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting radio b

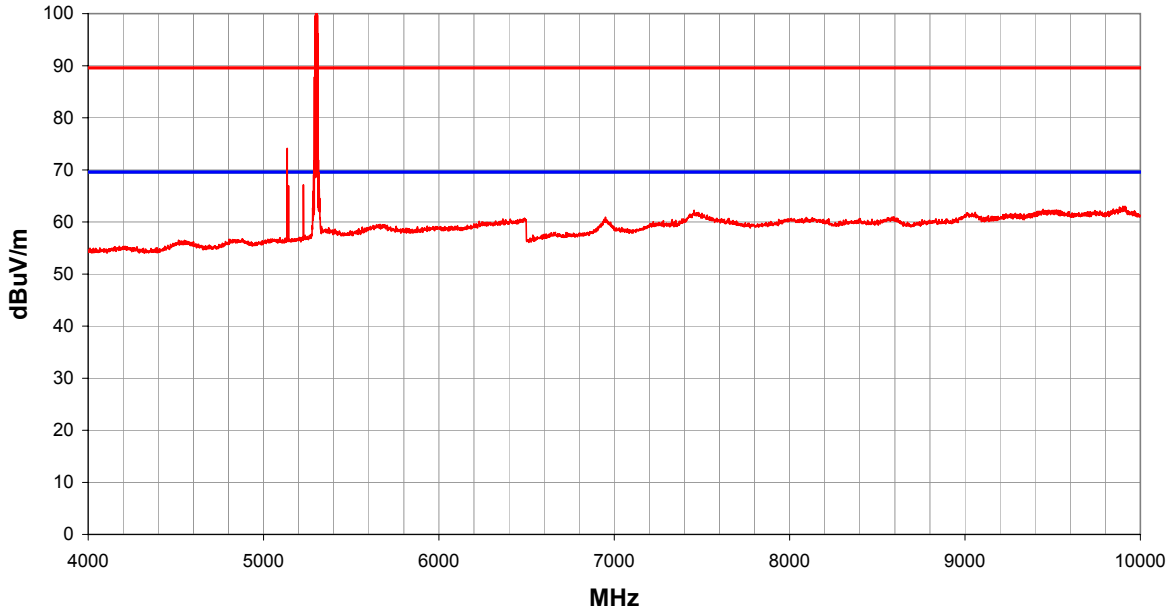
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 69 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5305.228 | 63.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 100.8 | 89.6 | 11.2 |
| 5297.731 | 63.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 100.1 | 89.6 | 10.5 |
| 5302.729 | 62.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 99.8 | 89.6 | 10.2 |
| 5307.727 | 62.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 99.7 | 89.6 | 10.1 |
| 5300.230 | 62.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 99.7 | 89.6 | 10.1 |
| 5295.232 | 62.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 99.6 | 89.6 | 10.0 |
| 5292.733 | 62.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 99.4 | 89.6 | 9.8 |
| 5310.226 | 59.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 96.1 | 89.6 | 6.5 |
| 5307.727 | 52.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 89.2 | 89.6 | -0.4 |
| 5302.729 | 52.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 89.2 | 89.6 | -0.4 |
| 5300.230 | 51.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 88.7 | 89.6 | -0.9 |
| 5305.228 | 51.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 88.6 | 89.6 | -1.0 |
| 5297.731 | 51.4 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 88.3 | 89.6 | -1.3 |
| 5295.232 | 51.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 88.1 | 89.6 | -1.5 |
| 5290.234 | 50.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 87.8 | 89.6 | -1.8 |
| 5292.733 | 50.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 87.1 | 89.6 | -2.5 |
| 5310.226 | 49.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.2 | 89.6 | -3.4 |
| 5290.234 | 39.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 76.0 | 89.6 | -13.6 |
| 5134.937 | 37.7 | 0.0 | 0.0 | 33.5 | 2.9 | 0.0 | H | | 0.0 | 74.1 | 89.6 | -15.5 |
| 5312.725 | 34.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 71.9 | 89.6 | -17.7 |
| 5287.735 | 34.8 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 71.7 | 89.6 | -17.9 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, ceiling mount antenna

**EUT OPERATING MODES**

Transmitting radio b

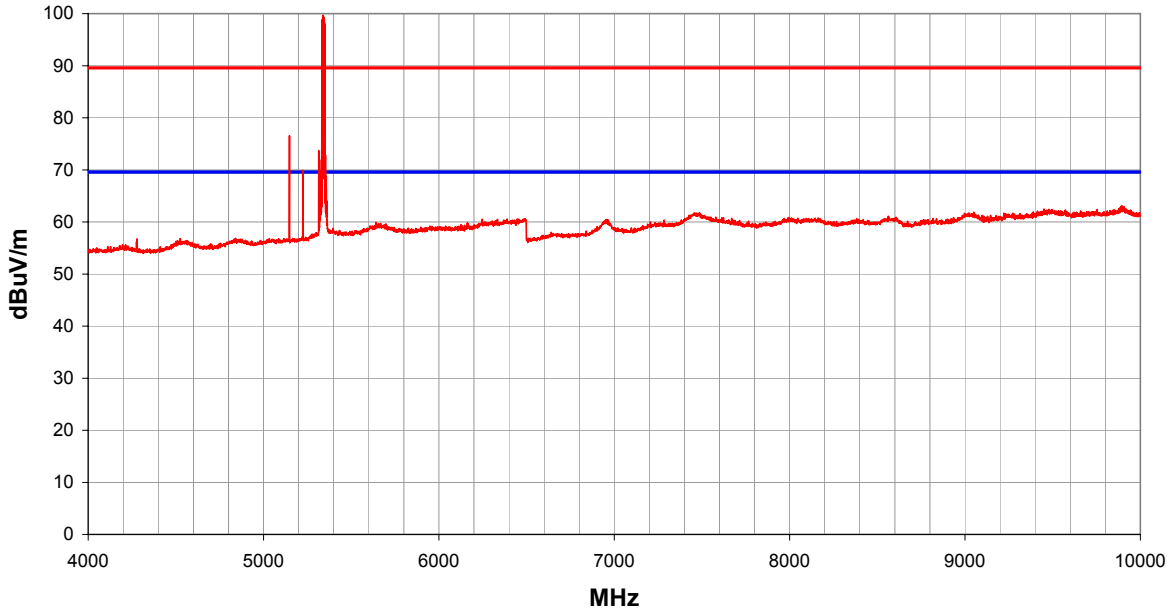
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 70 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5340.214 | 62.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 99.7 | 89.6 | 10.1 |
| 5337.715 | 62.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 99.4 | 89.6 | 9.8 |
| 5342.713 | 62.2 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 99.3 | 89.6 | 9.7 |
| 5345.212 | 62.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 99.1 | 89.6 | 9.5 |
| 5335.216 | 61.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 98.9 | 89.6 | 9.3 |
| 5347.711 | 61.2 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 98.3 | 89.6 | 8.7 |
| 5332.717 | 61.2 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 98.3 | 89.6 | 8.7 |
| 5350.210 | 60.7 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 97.8 | 89.6 | 8.2 |
| 5337.715 | 51.1 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 88.2 | 89.6 | -1.4 |
| 5345.212 | 51.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 88.1 | 89.6 | -1.5 |
| 5335.216 | 51.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 88.1 | 89.6 | -1.5 |
| 5340.214 | 50.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 87.7 | 89.6 | -1.9 |
| 5342.713 | 50.5 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 87.6 | 89.6 | -2.0 |
| 5347.711 | 50.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 87.5 | 89.6 | -2.1 |
| 5350.210 | 49.8 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 86.9 | 89.6 | -2.7 |
| 5332.717 | 49.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 86.4 | 89.6 | -3.2 |
| 5147.422 | 40.1 | 0.0 | 0.0 | 33.5 | 2.9 | 0.0 | H | | 0.0 | 76.6 | 89.6 | -13.0 |
| 5315.224 | 36.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 73.7 | 89.6 | -15.9 |
| 5352.709 | 35.7 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 72.8 | 89.6 | -16.8 |
| 5330.218 | 34.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 72.0 | 89.6 | -17.6 |
| 5224.832 | 33.2 | 0.0 | 0.0 | 33.8 | 2.9 | 0.0 | H | | 0.0 | 69.9 | 89.6 | -19.7 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, integral antenna

**EUT OPERATING MODES**

Transmitting radio a

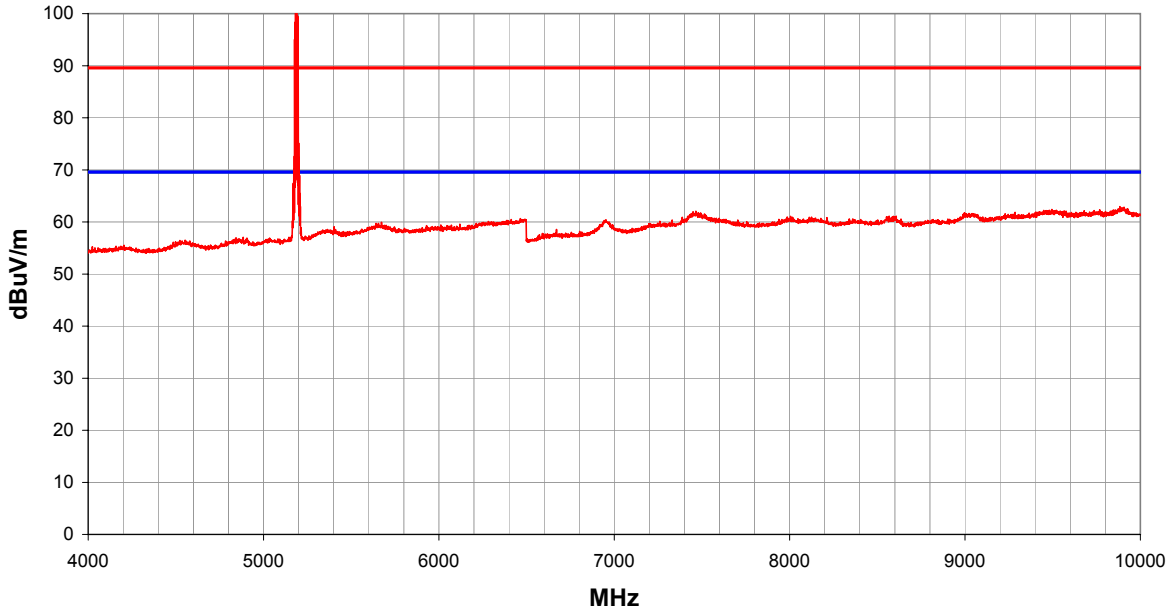
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 71 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5182.381 | 63.5 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | V | | 0.0 | 100.1 | 89.6 | 10.5 |
| 5189.873 | 63.4 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 100.0 | 89.6 | 10.4 |
| 5187.375 | 63.3 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 99.9 | 89.6 | 10.3 |
| 5192.370 | 63.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 99.6 | 89.6 | 10.0 |
| 5194.867 | 62.8 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 99.4 | 89.6 | 9.8 |
| 5184.878 | 62.5 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 99.1 | 89.6 | 9.5 |
| 5179.884 | 61.8 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | V | | 0.0 | 98.4 | 89.6 | 8.8 |
| 5197.364 | 61.2 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 97.8 | 89.6 | 8.2 |
| 5177.387 | 58.5 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | V | | 0.0 | 95.1 | 89.6 | 5.5 |
| 5189.873 | 54.1 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 90.7 | 89.6 | 1.1 |
| 5187.375 | 54.1 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 90.7 | 89.6 | 1.1 |
| 5194.867 | 54.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5192.370 | 54.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5184.878 | 54.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5182.381 | 53.3 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | H | | 0.0 | 89.9 | 89.6 | 0.3 |
| 5179.884 | 52.7 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | H | | 0.0 | 89.3 | 89.6 | -0.3 |
| 5197.364 | 50.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 86.6 | 89.6 | -3.0 |
| 5177.387 | 45.0 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | H | | 0.0 | 81.6 | 89.6 | -8.0 |
| 5199.861 | 38.5 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 75.1 | 89.6 | -14.5 |
| 5174.890 | 36.0 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | V | | 0.0 | 72.6 | 89.6 | -17.0 |
| 5202.358 | 35.7 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 72.3 | 89.6 | -17.3 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, integral antenna

**EUT OPERATING MODES**

Transmitting radio a

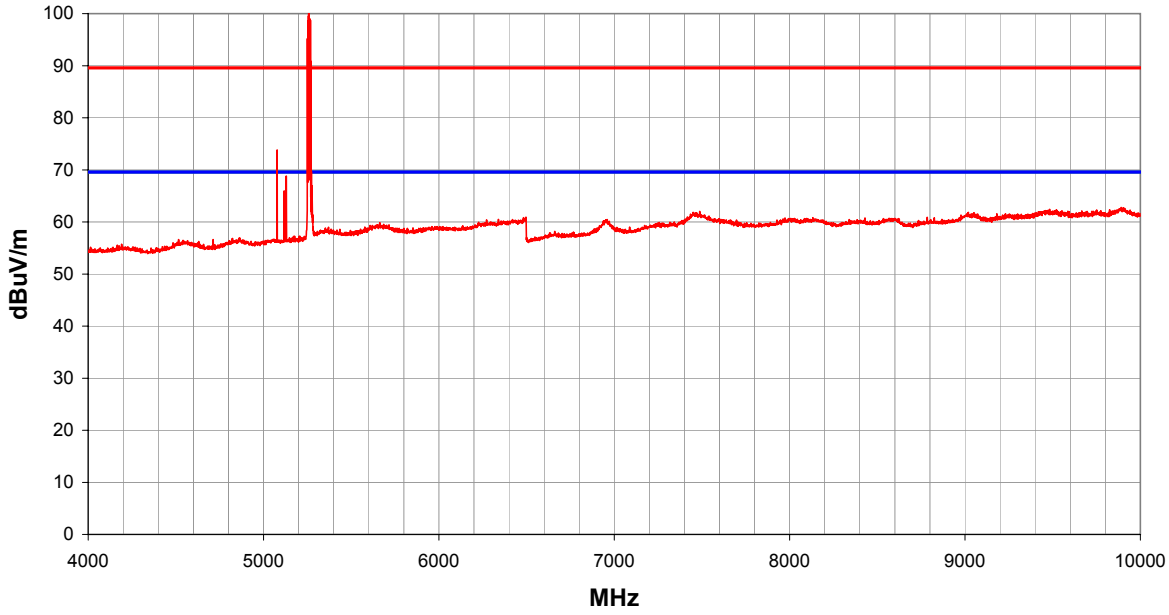
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 72 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5260.246 | 63.6 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 100.4 | 89.6 | 10.8 |
| 5257.747 | 63.2 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 100.0 | 89.6 | 10.4 |
| 5255.248 | 62.7 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 99.5 | 89.6 | 9.9 |
| 5262.745 | 62.2 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 99.0 | 89.6 | 9.4 |
| 5265.244 | 62.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 98.8 | 89.6 | 9.2 |
| 5267.743 | 61.9 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 98.8 | 89.6 | 9.2 |
| 5252.749 | 61.8 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 98.6 | 89.6 | 9.0 |
| 5250.250 | 58.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 95.2 | 89.6 | 5.6 |
| 5255.248 | 54.5 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 91.3 | 89.6 | 1.7 |
| 5260.246 | 54.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 91.2 | 89.6 | 1.6 |
| 5257.747 | 54.3 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 91.1 | 89.6 | 1.5 |
| 5270.242 | 54.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 90.9 | 89.6 | 1.3 |
| 5262.745 | 53.9 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 90.7 | 89.6 | 1.1 |
| 5265.244 | 53.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 90.2 | 89.6 | 0.6 |
| 5252.749 | 53.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 90.2 | 89.6 | 0.6 |
| 5267.743 | 53.2 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 90.1 | 89.6 | 0.5 |
| 5250.250 | 51.2 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 88.0 | 89.6 | -1.6 |
| 5270.242 | 42.4 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 79.3 | 89.6 | -10.3 |
| 5077.504 | 37.6 | 0.0 | 0.0 | 33.3 | 2.9 | 0.0 | H | | 0.0 | 73.8 | 89.6 | -15.8 |
| 5272.741 | 32.8 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 69.7 | 89.6 | -19.9 |
| 5129.943 | 32.4 | 0.0 | 0.0 | 33.5 | 2.9 | 0.0 | H | | 0.0 | 68.8 | 89.6 | -20.8 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, integral antenna

**EUT OPERATING MODES**

Transmitting radio a

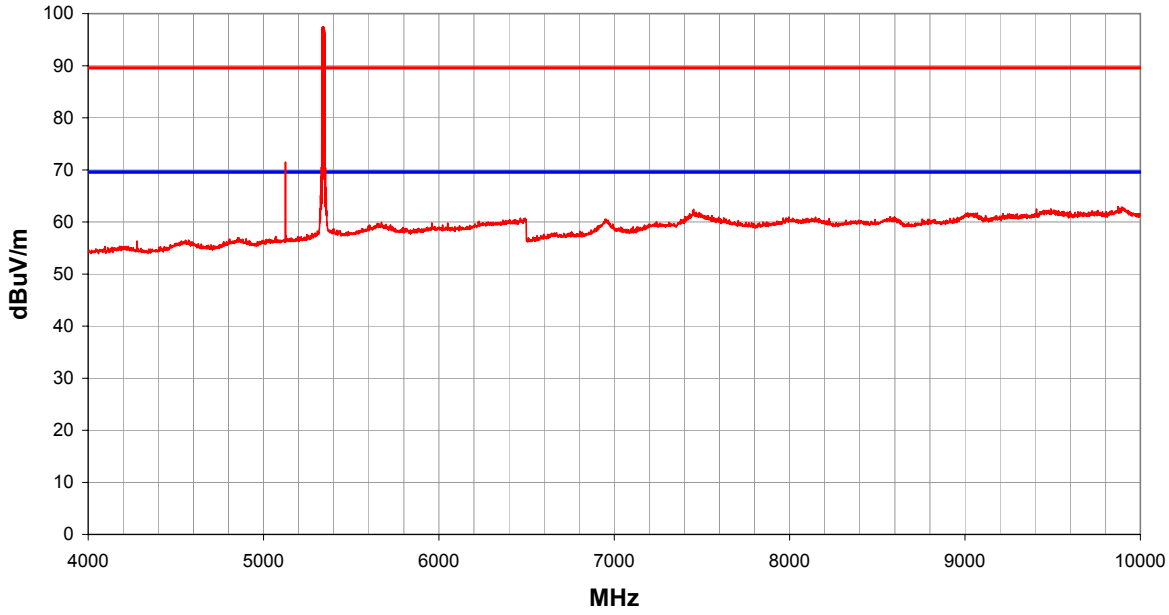
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 73 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5340.214 | 60.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.5 | 89.6 | 7.9 |
| 5337.715 | 60.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.5 | 89.6 | 7.9 |
| 5345.212 | 60.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.4 | 89.6 | 7.8 |
| 5335.216 | 60.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.4 | 89.6 | 7.8 |
| 5342.713 | 59.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.0 | 89.6 | 7.4 |
| 5347.711 | 59.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 96.8 | 89.6 | 7.2 |
| 5332.717 | 59.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 96.5 | 89.6 | 6.9 |
| 5350.210 | 59.1 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 96.2 | 89.6 | 6.6 |
| 5335.216 | 54.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 92.0 | 89.6 | 2.4 |
| 5337.715 | 54.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.7 | 89.6 | 2.1 |
| 5342.713 | 54.5 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.6 | 89.6 | 2.0 |
| 5340.214 | 54.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.4 | 89.6 | 1.8 |
| 5345.212 | 53.9 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 91.0 | 89.6 | 1.4 |
| 5332.717 | 53.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.8 | 89.6 | 1.2 |
| 5347.711 | 53.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.1 | 89.6 | 0.5 |
| 5350.210 | 52.0 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 89.1 | 89.6 | -0.5 |
| 5124.949 | 35.1 | 0.0 | 0.0 | 33.5 | 2.9 | 0.0 | V | | 0.0 | 71.5 | 89.6 | -18.1 |
| 5330.218 | 33.5 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 70.6 | 89.6 | -19.0 |
| 5352.709 | 33.3 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 70.4 | 89.6 | -19.2 |
| 5327.719 | 31.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 68.6 | 89.6 | -21.0 |
| 5355.208 | 29.5 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 66.6 | 89.6 | -23.0 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Low channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

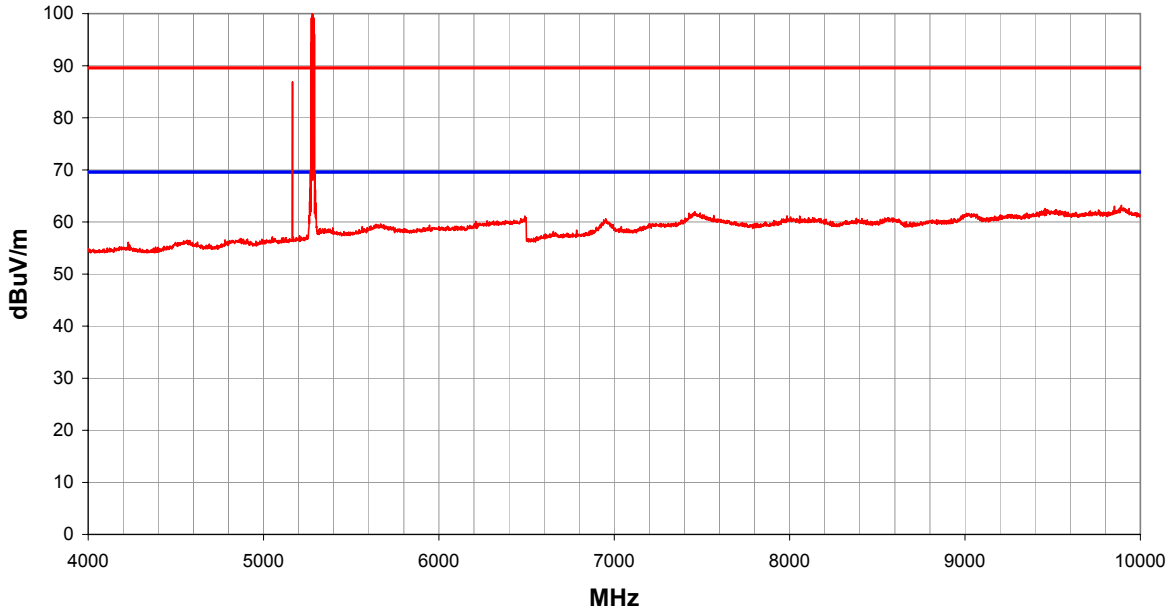
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 74 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5277.739 | 63.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 100.0 | 89.6 | 10.4 |
| 5282.737 | 62.9 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 99.8 | 89.6 | 10.2 |
| 5275.240 | 62.6 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 99.5 | 89.6 | 9.9 |
| 5285.236 | 62.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 99.2 | 89.6 | 9.6 |
| 5272.741 | 62.3 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 99.2 | 89.6 | 9.6 |
| 5280.238 | 62.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | V | | 0.0 | 99.0 | 89.6 | 9.4 |
| 5287.735 | 62.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.9 | 89.6 | 9.3 |
| 5290.234 | 59.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 96.0 | 89.6 | 6.4 |
| 5270.242 | 57.5 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 94.4 | 89.6 | 4.8 |
| 5285.236 | 54.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 91.6 | 89.6 | 2.0 |
| 5282.737 | 54.5 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 91.4 | 89.6 | 1.8 |
| 5280.238 | 54.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 91.0 | 89.6 | 1.4 |
| 5275.240 | 54.1 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 91.0 | 89.6 | 1.4 |
| 5287.735 | 54.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.9 | 89.6 | 1.3 |
| 5277.739 | 54.0 | 0.0 | 0.0 | 33.9 | 3.0 | 0.0 | H | | 0.0 | 90.9 | 89.6 | 1.3 |
| 5272.741 | 53.6 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 90.5 | 89.6 | 0.9 |
| 5164.902 | 50.4 | 0.0 | 0.0 | 33.6 | 2.9 | 0.0 | V | | 0.0 | 86.9 | 89.6 | -2.7 |
| 5290.234 | 48.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 85.2 | 89.6 | -4.4 |
| 5270.242 | 48.0 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | H | | 0.0 | 84.9 | 89.6 | -4.7 |
| 5267.743 | 33.1 | 0.0 | 0.0 | 33.9 | 2.9 | 0.0 | V | | 0.0 | 70.0 | 89.6 | -19.6 |
| 5292.733 | 32.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 69.4 | 89.6 | -20.2 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

Mid channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

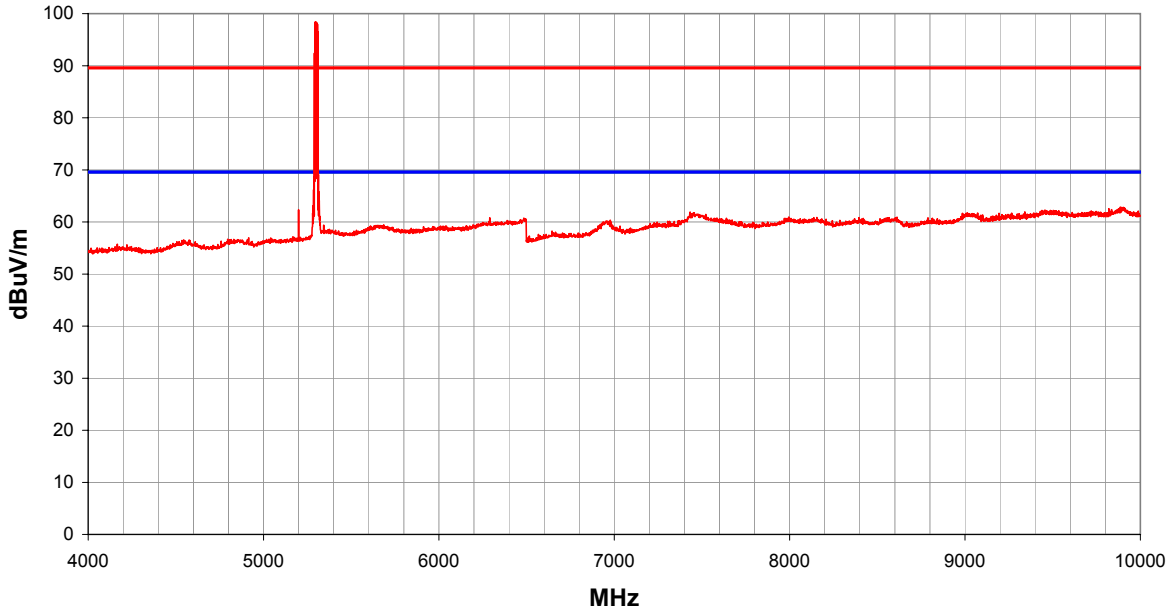
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 75 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5297.731 | 61.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.4 | 89.6 | 8.8 |
| 5295.232 | 61.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.4 | 89.6 | 8.8 |
| 5292.733 | 61.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.2 | 89.6 | 8.6 |
| 5305.228 | 61.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.2 | 89.6 | 8.6 |
| 5302.729 | 61.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.2 | 89.6 | 8.6 |
| 5300.230 | 61.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.2 | 89.6 | 8.6 |
| 5307.727 | 61.0 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 98.0 | 89.6 | 8.4 |
| 5310.226 | 59.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 96.5 | 89.6 | 6.9 |
| 5290.234 | 55.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 92.4 | 89.6 | 2.8 |
| 5297.731 | 54.5 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 91.4 | 89.6 | 1.8 |
| 5305.228 | 54.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 91.3 | 89.6 | 1.7 |
| 5302.729 | 53.9 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.9 | 89.6 | 1.3 |
| 5307.727 | 53.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5300.230 | 53.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.6 | 89.6 | 1.0 |
| 5295.232 | 53.6 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.5 | 89.6 | 0.9 |
| 5292.733 | 53.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 90.1 | 89.6 | 0.5 |
| 5310.226 | 50.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 87.3 | 89.6 | -2.3 |
| 5290.234 | 35.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | H | | 0.0 | 72.2 | 89.6 | -17.4 |
| 5312.725 | 32.1 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 69.1 | 89.6 | -20.5 |
| 5287.735 | 31.7 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 68.6 | 89.6 | -21.0 |
| 5285.236 | 29.3 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 66.2 | 89.6 | -23.4 |

NORTHWEST EMC

# RADIATED EMISSIONS DATA SHEET

REV df2.05 07/31/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | | | | Date: | 8/13/02 |
| Customer: | INTERMEC Corporation | | | Temperature: | 77 |
| Attendees: | None | | | Humidity: | 37% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30.11 |
| Tested by: | Rod Peloquin | Power: | DC from E-net | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | FCC 15.209 | Year: | Current 47CFR |
| Method: | ANSI C63.4 | Year: | 2000 |

**SAMPLE CALCULATIONS**

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**

High channel, corner mount antenna

**EUT OPERATING MODES**

Transmitting radio b

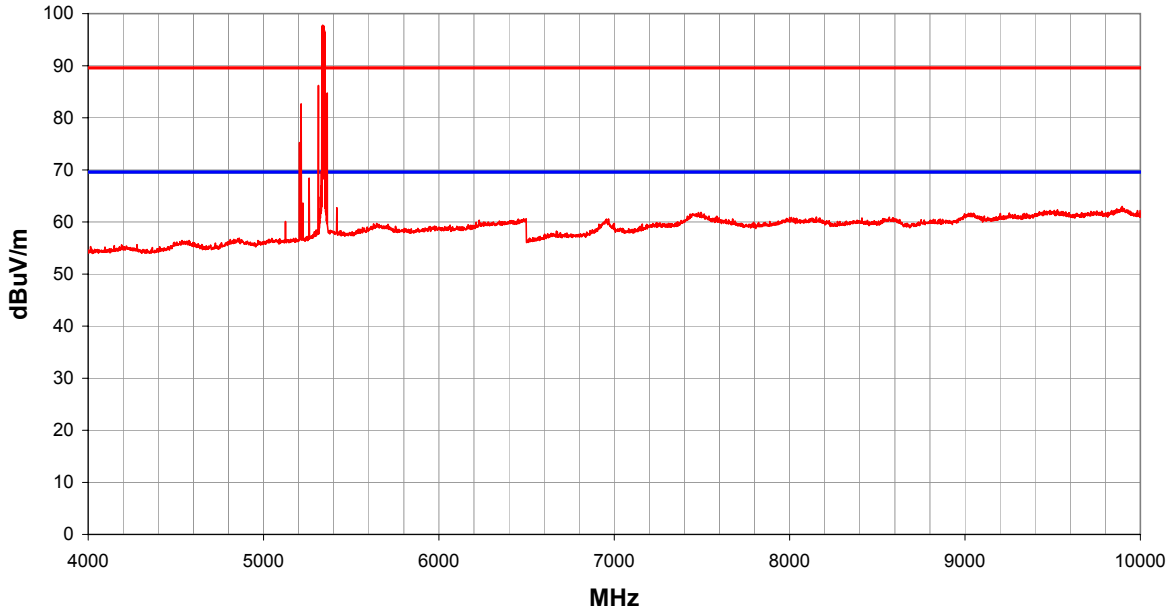
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Test Distance (m) | Run # |
|---|---|---|
| Evaluation | 0.5 m | 76 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Chamber (dB) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector (blank equal peaks [PK] from scan) | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5337.715 | 60.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.8 | 89.6 | 8.2 |
| 5335.216 | 60.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.7 | 89.6 | 8.1 |
| 5345.212 | 60.5 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.6 | 89.6 | 8.0 |
| 5340.214 | 60.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.4 | 89.6 | 7.8 |
| 5342.713 | 60.0 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 97.1 | 89.6 | 7.5 |
| 5332.717 | 59.7 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 96.8 | 89.6 | 7.2 |
| 5347.711 | 59.6 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | V | | 0.0 | 96.7 | 89.6 | 7.1 |
| 5350.210 | 59.2 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 96.3 | 89.6 | 6.7 |
| 5337.715 | 53.4 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.5 | 89.6 | 0.9 |
| 5340.214 | 53.3 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.4 | 89.6 | 0.8 |
| 5342.713 | 53.2 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.3 | 89.6 | 0.7 |
| 5345.212 | 53.1 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.2 | 89.6 | 0.6 |
| 5335.216 | 53.1 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 90.2 | 89.6 | 0.6 |
| 5347.711 | 52.8 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 89.9 | 89.6 | 0.3 |
| 5350.210 | 52.5 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | H | | 0.0 | 89.6 | 89.6 | 0.0 |
| 5332.717 | 52.1 | 0.0 | 0.0 | 34.1 | 3.0 | 0.0 | H | | 0.0 | 89.2 | 89.6 | -0.4 |
| 5312.725 | 49.2 | 0.0 | 0.0 | 34.0 | 3.0 | 0.0 | V | | 0.0 | 86.2 | 89.6 | -3.4 |
| 5362.706 | 47.6 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 84.8 | 89.6 | -4.8 |
| 5214.843 | 46.0 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | V | | 0.0 | 82.7 | 89.6 | -6.9 |
| 5352.709 | 41.2 | 0.0 | 0.0 | 34.2 | 3.0 | 0.0 | V | | 0.0 | 78.3 | 89.6 | -11.3 |
| 5204.855 | 38.6 | 0.0 | 0.0 | 33.7 | 2.9 | 0.0 | H | | 0.0 | 75.2 | 89.6 | -14.4 |