# Exhibit L: AC Conducted Emissions

# FCC ID: HN2WN-5MP01

# AC Powerline Conducted Emissions



## Justification

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

| Channels in Specified Band Investigated: |
|---|
| Low |
| Mid |
| High |

| Operating Modes Investigated: |
|---|
| Typical |

| Data Rates Investigated: |
|---|
| Maximum |

| Output Power Setting(s) Investigated: |
|---|
| Maximum |

| Power Input Settings Investigated: |
|---|
| 120 VAC, 60 Hz. |

| Other Settings Investigated: |
|---|
| Low, mid, and high channels were tested with both the integral antennas and the highest gain removable antenna. |

| Frequency Range Investigated | | | |
|---|---|---|---|
| Start Frequency | 150 kHz | Stop Frequency | 30 MHz |

| Software\Firmware Applied During Test | | | |
|---|---|---|---|
| Exercise software | AP Monitor | Version | V5.97 |
| Description | | | |
| A notebook PC controls the radio through a serial port connection on the WA21 access point. Hyper Terminal running in Windows 98 address the AP monitor commands for setting the transmit channel and data rate. | | | |

## Equipment Modifications

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

# AC Powerline Conducted Emissions



## EUT and Peripherals

| Description | Manufacturer | Model/Part Number | Serial Number |
|---|---|---|---|
| Omni antenna | Intermec | 072760 | N/A |
| Corner reflector antenna | Intermec | 072762 | N/A |
| Two Integral omni antennas | Intermec | 072664 | N/A |
| EUT-802.11(a) radio module installed in WA21 Access Point | Intermec | WN-5MP01 | 002-032 |
| Laptop PC (config only) | Gateway | Solo 2500 | BC699085606 |

## Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|---|---|---|---|---|---|
| Serial | Yes | 1.5 | No | Access Point | Unterminated |
| Antenna Adapter Cable | Yes | 1.8 | No | Access Point | Omni antenna |
| Antenna adapter cable | Yes | .35 | No | Access Point | Corner reflector antenna |
| AC Power | No | 1.8 | No | Access Point | AC Mains |

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

## Measurement Equipment

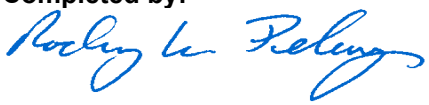
| Description | Manufacturer | Model | Identifier | Last Cal | Interval |
|---|---|---|---|---|---|
| Spectrum Analyzer | Hewlett-Packard | 8566B | AAL | 03/19/2002 | 12 mo |
| High Pass Filter | TTE | H97-100k-50-720B | HFC | 12/11/2001 | 12 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIP | 06/12/2002 | 12 mo |

## Test Description

**Requirement:** Per 47 15.407(b)(5) and 15.207(d), if the EUT is connected to the AC power line indirectly, obtaining its power from another device that is connected to the AC power line, then it should be tested to demonstrate compliance with the conducted limits of 15.207.

**Configuration:** The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in each operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-1992.

**Completed by:**



NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:15 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

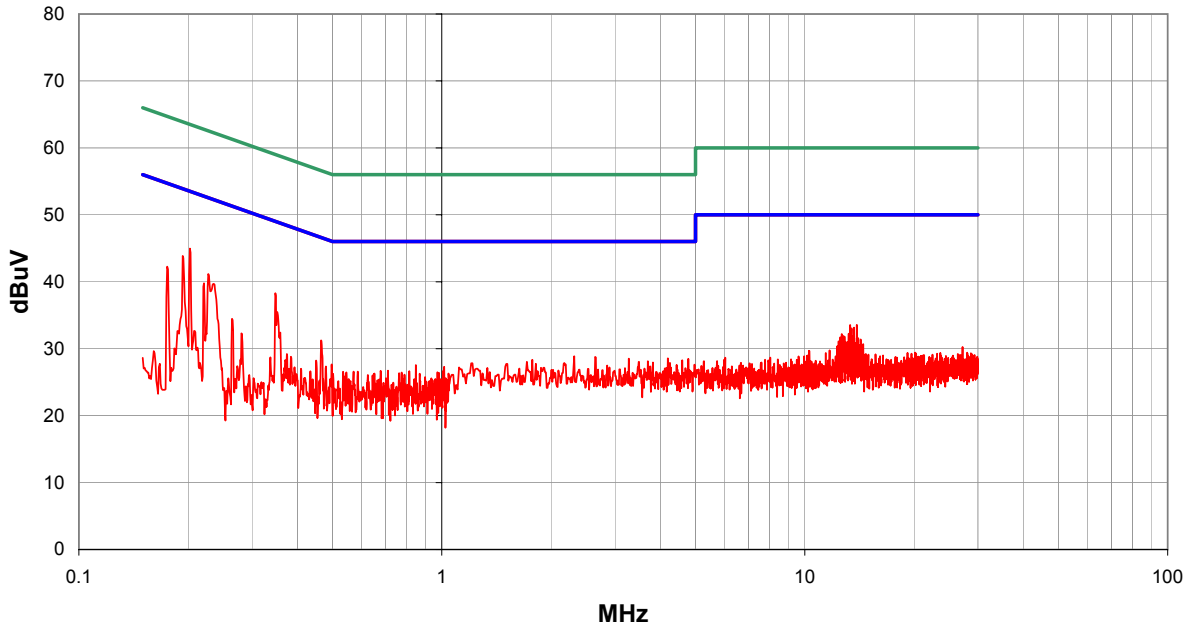
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 1 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.202 | 24.8 | | | 0.0 | 0.2 | 20.0 | | | | 45.0 | 53.5 | -8.6 |
| 0.193 | 23.7 | | | 0.0 | 0.2 | 20.0 | | | | 43.9 | 53.9 | -10.0 |
| 0.348 | 18.1 | | | 0.0 | 0.2 | 20.0 | | | | 38.3 | 49.0 | -10.7 |
| 0.227 | 21.0 | | | 0.0 | 0.2 | 20.0 | | | | 41.2 | 52.5 | -11.4 |
| 0.175 | 22.1 | | | 0.0 | 0.2 | 20.0 | | | | 42.3 | 54.7 | -12.5 |
| 0.221 | 19.6 | | | 0.0 | 0.2 | 20.0 | | | | 39.8 | 52.8 | -13.0 |
| 0.352 | 15.3 | | | 0.0 | 0.2 | 20.0 | | | | 35.5 | 48.9 | -13.4 |
| 0.465 | 11.0 | | | 0.0 | 0.2 | 20.0 | | | | 31.2 | 46.6 | -15.4 |
| 13.920 | 12.5 | | | 0.0 | 1.1 | 20.0 | | | | 33.6 | 50.0 | -16.4 |
| 13.344 | 12.5 | | | 0.0 | 1.0 | 20.0 | | | | 33.5 | 50.0 | -16.5 |
| 0.264 | 14.3 | | | 0.0 | 0.2 | 20.0 | | | | 34.5 | 51.3 | -16.8 |
| 13.680 | 12.1 | | | 0.0 | 1.1 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 13.464 | 12.0 | | | 0.0 | 1.0 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 2.316 | 8.4 | | | 0.0 | 0.5 | 20.0 | | | | 28.9 | 46.0 | -17.1 |
| 2.646 | 8.3 | | | 0.0 | 0.5 | 20.0 | | | | 28.8 | 46.0 | -17.2 |
| 4.197 | 8.0 | | | 0.0 | 0.6 | 20.0 | | | | 28.6 | 46.0 | -17.4 |
| 3.276 | 8.0 | | | 0.0 | 0.5 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 4.777 | 7.9 | | | 0.0 | 0.6 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 1.775 | 7.9 | | | 0.0 | 0.4 | 20.0 | | | | 28.3 | 46.0 | -17.7 |
| 4.597 | 7.7 | | | 0.0 | 0.6 | 20.0 | | | | 28.3 | 46.0 | -17.7 |
| 13.224 | 11.2 | | | 0.0 | 1.0 | 20.0 | | | | 32.2 | 50.0 | -17.8 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:19 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

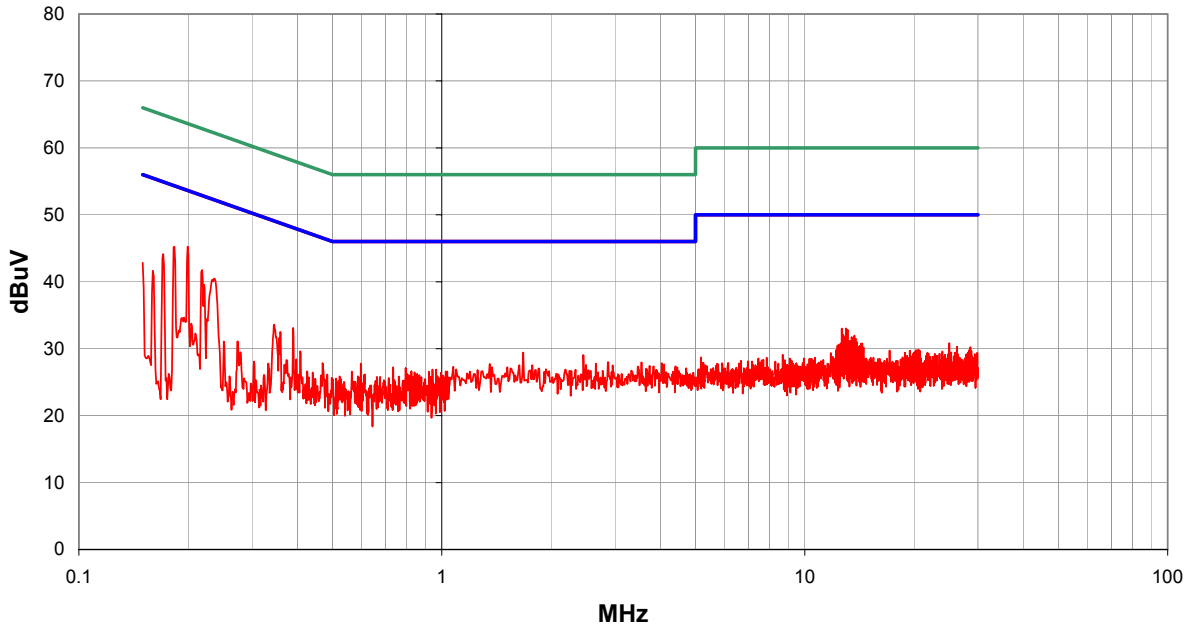
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 2 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.200 | 25.1 | | | 0.0 | 0.2 | 20.0 | | | | 45.3 | 53.6 | -8.4 |
| 0.183 | 25.1 | | | 0.0 | 0.2 | 20.0 | | | | 45.3 | 54.3 | -9.1 |
| 0.171 | 24.0 | | | 0.0 | 0.1 | 20.0 | | | | 44.1 | 54.9 | -10.8 |
| 0.218 | 21.6 | | | 0.0 | 0.2 | 20.0 | | | | 41.8 | 52.9 | -11.1 |
| 0.236 | 20.3 | | | 0.0 | 0.2 | 20.0 | | | | 40.5 | 52.2 | -11.8 |
| 0.150 | 22.7 | | | 0.0 | 0.1 | 20.0 | | | | 42.8 | 56.0 | -13.2 |
| 0.221 | 19.4 | | | 0.0 | 0.2 | 20.0 | | | | 39.6 | 52.8 | -13.2 |
| 0.160 | 21.5 | | | 0.0 | 0.1 | 20.0 | | | | 41.6 | 55.5 | -13.8 |
| 0.389 | 12.9 | | | 0.0 | 0.2 | 20.0 | | | | 33.1 | 48.1 | -15.0 |
| 0.345 | 13.4 | | | 0.0 | 0.2 | 20.0 | | | | 33.6 | 49.1 | -15.5 |
| 0.359 | 12.3 | | | 0.0 | 0.2 | 20.0 | | | | 32.5 | 48.8 | -16.3 |
| 1.675 | 9.0 | | | 0.0 | 0.4 | 20.0 | | | | 29.4 | 46.0 | -16.6 |
| 2.456 | 8.6 | | | 0.0 | 0.5 | 20.0 | | | | 29.1 | 46.0 | -16.9 |
| 13.008 | 12.0 | | | 0.0 | 1.0 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 12.648 | 12.0 | | | 0.0 | 1.0 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 13.128 | 11.8 | | | 0.0 | 1.0 | 20.0 | | | | 32.8 | 50.0 | -17.2 |
| 0.356 | 11.4 | | | 0.0 | 0.2 | 20.0 | | | | 31.6 | 48.8 | -17.2 |
| 12.768 | 11.1 | | | 0.0 | 1.0 | 20.0 | | | | 32.1 | 50.0 | -17.9 |
| 2.876 | 7.5 | | | 0.0 | 0.5 | 20.0 | | | | 28.0 | 46.0 | -18.0 |
| 13.704 | 10.9 | | | 0.0 | 1.1 | 20.0 | | | | 32.0 | 50.0 | -18.0 |
| 3.556 | 7.4 | | | 0.0 | 0.5 | 20.0 | | | | 27.9 | 46.0 | -18.1 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:20 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

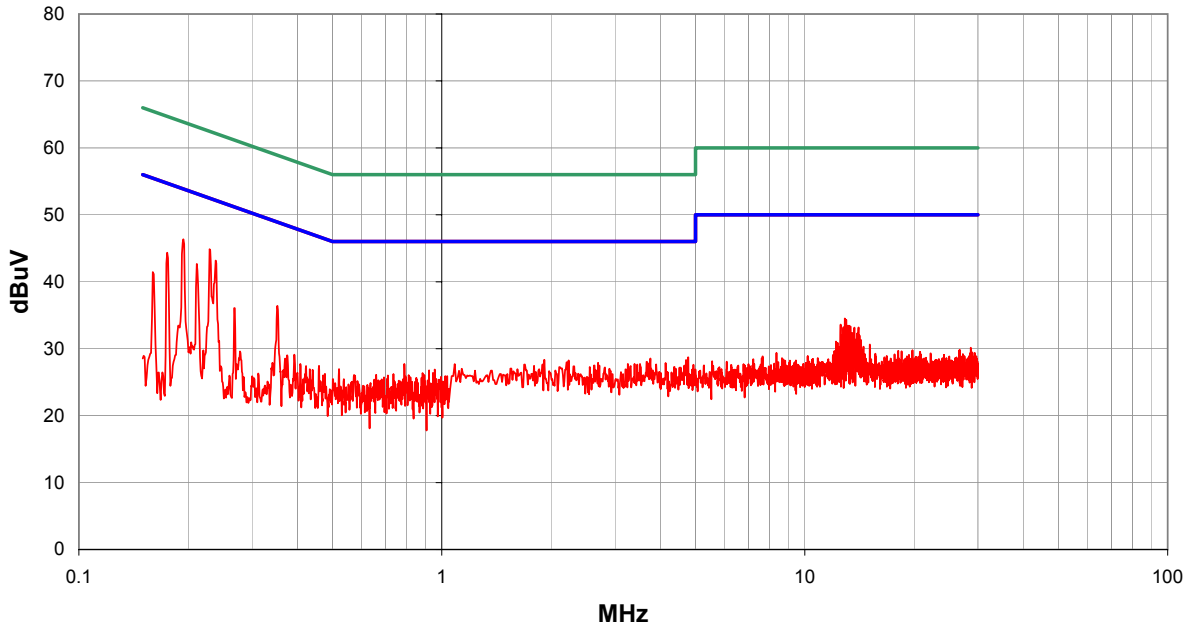
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 3 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.194 | 26.2 | | | 0.0 | 0.2 | 20.0 | | | | 46.4 | 53.9 | -7.5 |
| 0.229 | 24.7 | | | 0.0 | 0.2 | 20.0 | | | | 44.9 | 52.5 | -7.6 |
| 0.238 | 23.0 | | | 0.0 | 0.2 | 20.0 | | | | 43.2 | 52.2 | -9.0 |
| 0.175 | 24.2 | | | 0.0 | 0.2 | 20.0 | | | | 44.4 | 54.7 | -10.4 |
| 0.211 | 22.5 | | | 0.0 | 0.2 | 20.0 | | | | 42.7 | 53.2 | -10.5 |
| 0.353 | 16.2 | | | 0.0 | 0.2 | 20.0 | | | | 36.4 | 48.9 | -12.5 |
| 0.160 | 21.3 | | | 0.0 | 0.1 | 20.0 | | | | 41.4 | 55.5 | -14.0 |
| 0.269 | 15.9 | | | 0.0 | 0.2 | 20.0 | | | | 36.1 | 51.2 | -15.1 |
| 12.888 | 13.5 | | | 0.0 | 1.0 | 20.0 | | | | 34.5 | 50.0 | -15.5 |
| 13.008 | 13.3 | | | 0.0 | 1.0 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 12.552 | 12.6 | | | 0.0 | 1.0 | 20.0 | | | | 33.6 | 50.0 | -16.4 |
| 13.236 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 13.128 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 13.356 | 12.3 | | | 0.0 | 1.0 | 20.0 | | | | 33.3 | 50.0 | -16.7 |
| 12.792 | 12.2 | | | 0.0 | 1.0 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 14.064 | 12.1 | | | 0.0 | 1.1 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 13.704 | 12.1 | | | 0.0 | 1.1 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 4.777 | 8.1 | | | 0.0 | 0.6 | 20.0 | | | | 28.7 | 46.0 | -17.3 |
| 3.756 | 8.0 | | | 0.0 | 0.5 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 13.584 | 11.3 | | | 0.0 | 1.1 | 20.0 | | | | 32.4 | 50.0 | -17.6 |
| 1.915 | 7.9 | | | 0.0 | 0.4 | 20.0 | | | | 28.3 | 46.0 | -17.7 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:22 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

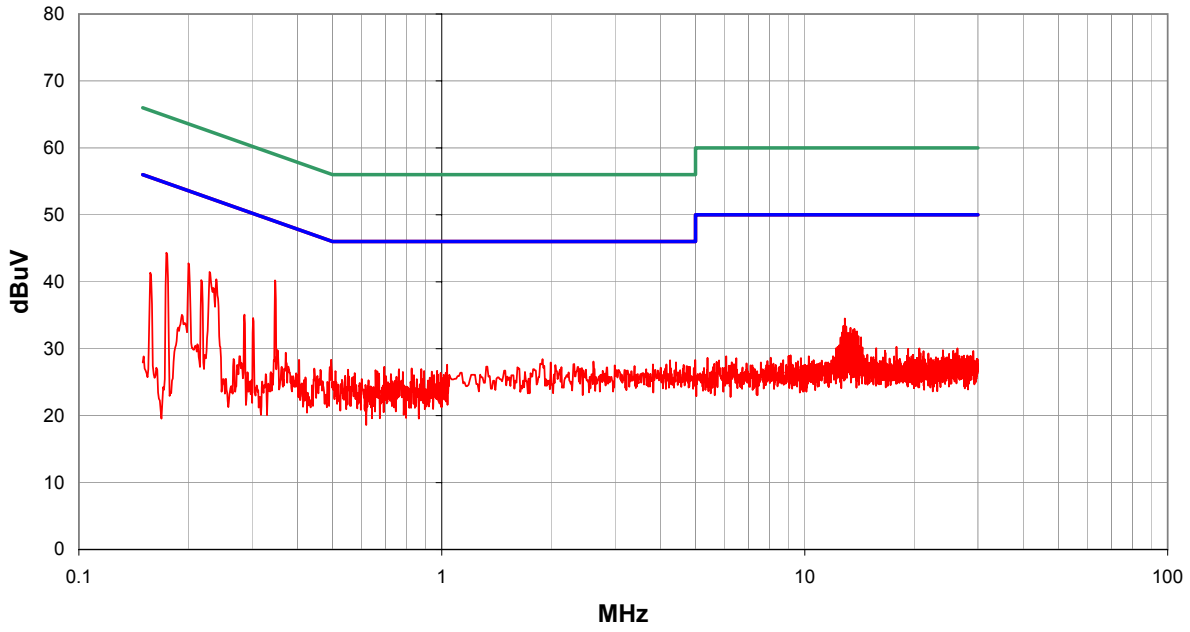
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 4 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.347 | 20.0 | | | 0.0 | 0.2 | 20.0 | | | | 40.2 | 49.0 | -8.8 |
| 0.174 | 24.2 | | | 0.0 | 0.1 | 20.0 | | | | 44.3 | 54.8 | -10.4 |
| 0.200 | 22.6 | | | 0.0 | 0.2 | 20.0 | | | | 42.8 | 53.6 | -10.8 |
| 0.229 | 21.3 | | | 0.0 | 0.2 | 20.0 | | | | 41.5 | 52.5 | -11.0 |
| 0.239 | 20.2 | | | 0.0 | 0.2 | 20.0 | | | | 40.4 | 52.1 | -11.8 |
| 0.218 | 20.1 | | | 0.0 | 0.2 | 20.0 | | | | 40.3 | 52.9 | -12.7 |
| 0.157 | 21.2 | | | 0.0 | 0.1 | 20.0 | | | | 41.3 | 55.6 | -14.3 |
| 12.888 | 13.5 | | | 0.0 | 1.0 | 20.0 | | | | 34.5 | 50.0 | -15.5 |
| 0.286 | 14.9 | | | 0.0 | 0.2 | 20.0 | | | | 35.1 | 50.6 | -15.6 |
| 0.302 | 14.4 | | | 0.0 | 0.2 | 20.0 | | | | 34.6 | 50.2 | -15.6 |
| 12.792 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 13.008 | 12.3 | | | 0.0 | 1.0 | 20.0 | | | | 33.3 | 50.0 | -16.7 |
| 13.368 | 12.1 | | | 0.0 | 1.0 | 20.0 | | | | 33.1 | 50.0 | -16.9 |
| 13.704 | 11.9 | | | 0.0 | 1.1 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 13.608 | 11.8 | | | 0.0 | 1.1 | 20.0 | | | | 32.9 | 50.0 | -17.1 |
| 13.944 | 11.5 | | | 0.0 | 1.1 | 20.0 | | | | 32.6 | 50.0 | -17.4 |
| 13.848 | 11.5 | | | 0.0 | 1.1 | 20.0 | | | | 32.6 | 50.0 | -17.4 |
| 1.895 | 8.0 | | | 0.0 | 0.4 | 20.0 | | | | 28.4 | 46.0 | -17.6 |
| 12.672 | 11.4 | | | 0.0 | 1.0 | 20.0 | | | | 32.4 | 50.0 | -17.6 |
| 13.248 | 11.3 | | | 0.0 | 1.0 | 20.0 | | | | 32.3 | 50.0 | -17.7 |
| 13.152 | 11.3 | | | 0.0 | 1.0 | 20.0 | | | | 32.3 | 50.0 | -17.7 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:24 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

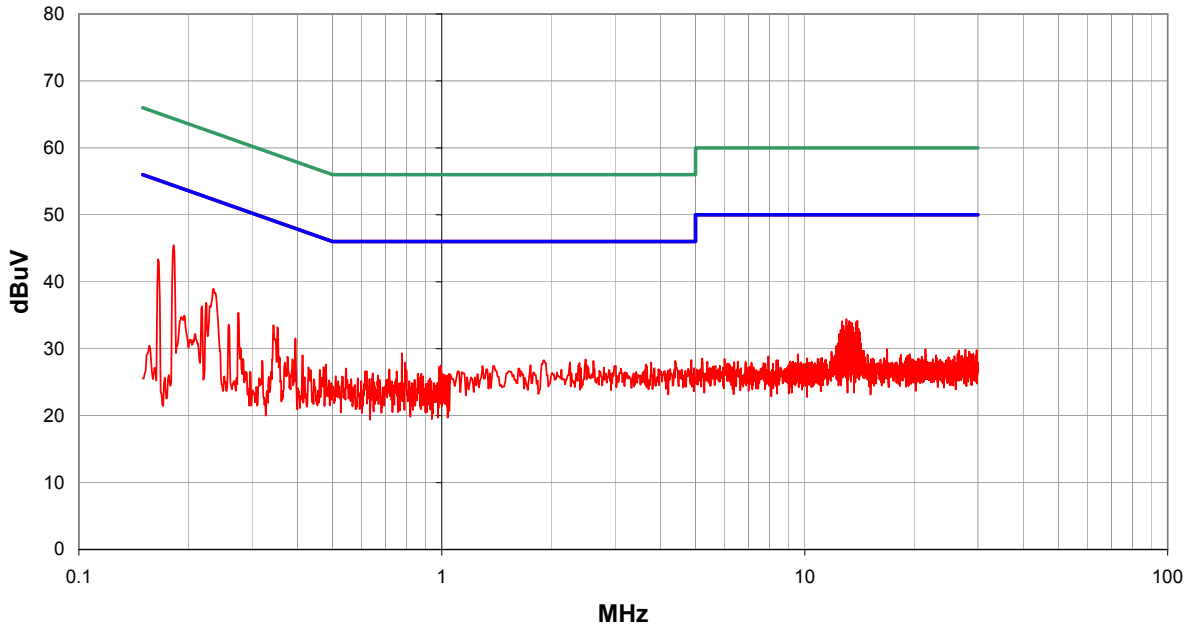
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 5 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.182 | 25.3 | | | 0.0 | 0.2 | 20.0 | | | | 45.5 | 54.4 | -8.9 |
| 0.165 | 23.2 | | | 0.0 | 0.1 | 20.0 | | | | 43.3 | 55.2 | -11.8 |
| 0.235 | 18.8 | | | 0.0 | 0.2 | 20.0 | | | | 39.0 | 52.3 | -13.3 |
| 13.020 | 13.4 | | | 0.0 | 1.0 | 20.0 | | | | 34.4 | 50.0 | -15.6 |
| 0.275 | 15.2 | | | 0.0 | 0.2 | 20.0 | | | | 35.4 | 51.0 | -15.6 |
| 0.344 | 13.3 | | | 0.0 | 0.2 | 20.0 | | | | 33.5 | 49.1 | -15.6 |
| 0.353 | 13.0 | | | 0.0 | 0.2 | 20.0 | | | | 33.2 | 48.9 | -15.7 |
| 0.224 | 16.7 | | | 0.0 | 0.2 | 20.0 | | | | 36.9 | 52.7 | -15.8 |
| 13.968 | 13.1 | | | 0.0 | 1.1 | 20.0 | | | | 34.2 | 50.0 | -15.8 |
| 13.248 | 13.1 | | | 0.0 | 1.0 | 20.0 | | | | 34.1 | 50.0 | -15.9 |
| 12.672 | 13.1 | | | 0.0 | 1.0 | 20.0 | | | | 34.1 | 50.0 | -15.9 |
| 13.848 | 12.9 | | | 0.0 | 1.1 | 20.0 | | | | 34.0 | 50.0 | -16.0 |
| 13.368 | 12.9 | | | 0.0 | 1.0 | 20.0 | | | | 33.9 | 50.0 | -16.1 |
| 13.488 | 12.8 | | | 0.0 | 1.0 | 20.0 | | | | 33.8 | 50.0 | -16.2 |
| 0.395 | 11.3 | | | 0.0 | 0.2 | 20.0 | | | | 31.5 | 48.0 | -16.4 |
| 0.218 | 16.2 | | | 0.0 | 0.2 | 20.0 | | | | 36.4 | 52.9 | -16.5 |
| 12.792 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 0.776 | 9.0 | | | 0.0 | 0.3 | 20.0 | | | | 29.3 | 46.0 | -16.7 |
| 13.152 | 12.3 | | | 0.0 | 1.0 | 20.0 | | | | 33.3 | 50.0 | -16.7 |
| 13.608 | 12.1 | | | 0.0 | 1.1 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 14.064 | 11.9 | | | 0.0 | 1.1 | 20.0 | | | | 33.0 | 50.0 | -17.0 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:25 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio a with intergral antennas, corner mount and omni on radio b

**EUT OPERATING MODES**

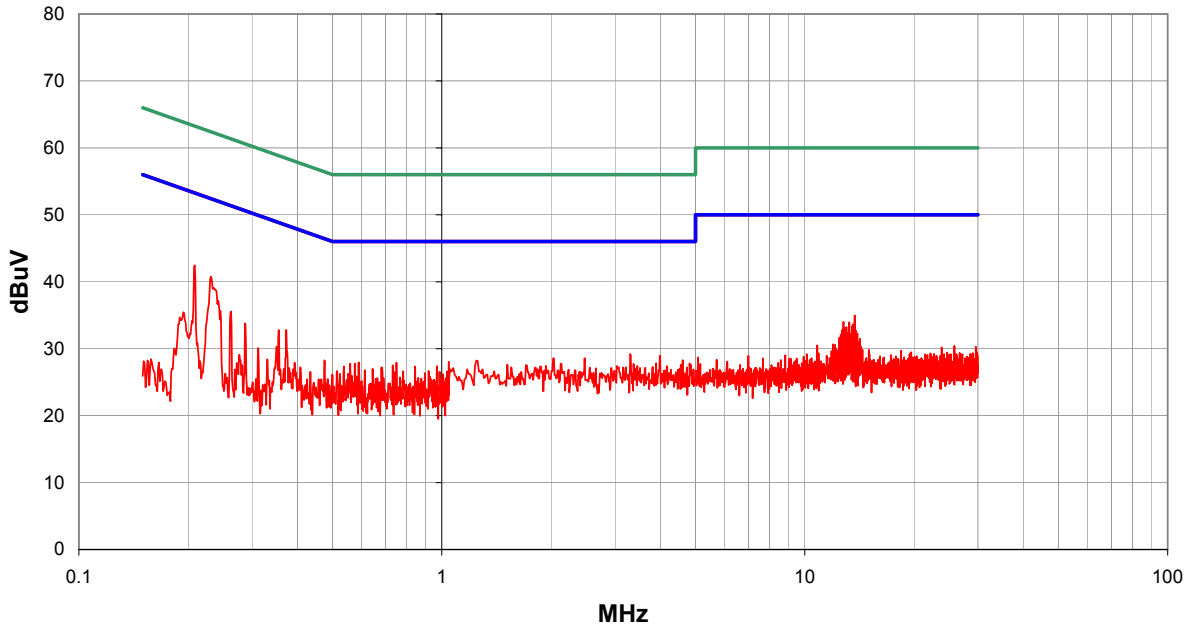
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 6 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.209 | 22.3 | | | 0.0 | 0.2 | 20.0 | | | | 42.5 | 53.3 | -10.8 |
| 0.231 | 20.6 | | | 0.0 | 0.2 | 20.0 | | | | 40.8 | 52.4 | -11.6 |
| 13.728 | 13.9 | | | 0.0 | 1.1 | 20.0 | | | | 35.0 | 50.0 | -15.0 |
| 0.372 | 12.6 | | | 0.0 | 0.2 | 20.0 | | | | 32.8 | 48.4 | -15.6 |
| 0.263 | 15.4 | | | 0.0 | 0.2 | 20.0 | | | | 35.6 | 51.4 | -15.8 |
| 12.792 | 13.0 | | | 0.0 | 1.0 | 20.0 | | | | 34.0 | 50.0 | -16.0 |
| 0.355 | 12.6 | | | 0.0 | 0.2 | 20.0 | | | | 32.8 | 48.8 | -16.0 |
| 13.260 | 12.9 | | | 0.0 | 1.0 | 20.0 | | | | 33.9 | 50.0 | -16.1 |
| 13.596 | 12.6 | | | 0.0 | 1.1 | 20.0 | | | | 33.7 | 50.0 | -16.3 |
| 13.488 | 12.3 | | | 0.0 | 1.0 | 20.0 | | | | 33.3 | 50.0 | -16.7 |
| 13.020 | 12.2 | | | 0.0 | 1.0 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 3.306 | 8.7 | | | 0.0 | 0.5 | 20.0 | | | | 29.2 | 46.0 | -16.8 |
| 0.287 | 13.6 | | | 0.0 | 0.2 | 20.0 | | | | 33.8 | 50.6 | -16.8 |
| 12.912 | 12.1 | | | 0.0 | 1.0 | 20.0 | | | | 33.1 | 50.0 | -16.9 |
| 3.996 | 8.4 | | | 0.0 | 0.6 | 20.0 | | | | 29.0 | 46.0 | -17.0 |
| 12.672 | 11.8 | | | 0.0 | 1.0 | 20.0 | | | | 32.8 | 50.0 | -17.2 |
| 13.848 | 11.6 | | | 0.0 | 1.1 | 20.0 | | | | 32.7 | 50.0 | -17.3 |
| 2.476 | 8.1 | | | 0.0 | 0.5 | 20.0 | | | | 28.6 | 46.0 | -17.4 |
| 2.036 | 8.1 | | | 0.0 | 0.5 | 20.0 | | | | 28.6 | 46.0 | -17.4 |
| 13.140 | 11.3 | | | 0.0 | 1.0 | 20.0 | | | | 32.3 | 50.0 | -17.7 |
| 4.617 | 7.7 | | | 0.0 | 0.6 | 20.0 | | | | 28.3 | 46.0 | -17.7 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:28 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

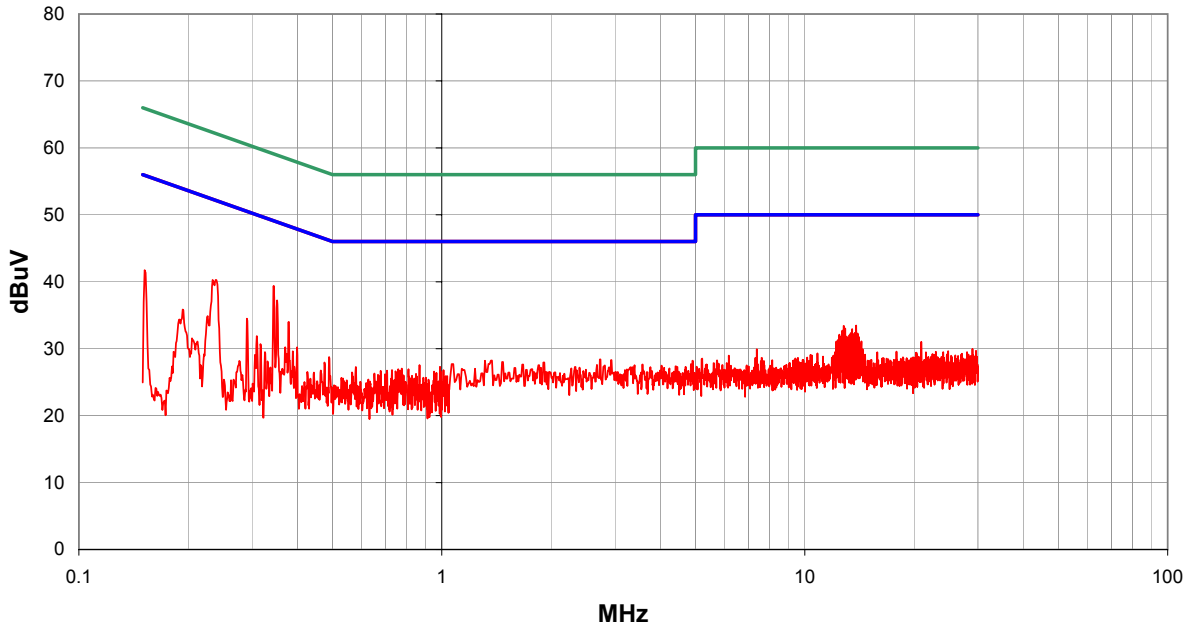
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 7 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.344 | 19.2 | | | 0.0 | 0.2 | 20.0 | | | | 39.4 | 49.1 | -9.7 |
| 0.352 | 17.0 | | | 0.0 | 0.2 | 20.0 | | | | 37.2 | 48.9 | -11.7 |
| 0.239 | 20.1 | | | 0.0 | 0.2 | 20.0 | | | | 40.3 | 52.1 | -11.9 |
| 0.152 | 21.6 | | | 0.0 | 0.1 | 20.0 | | | | 41.7 | 55.9 | -14.2 |
| 0.379 | 13.8 | | | 0.0 | 0.2 | 20.0 | | | | 34.0 | 48.3 | -14.3 |
| 0.290 | 14.3 | | | 0.0 | 0.2 | 20.0 | | | | 34.5 | 50.5 | -16.0 |
| 13.860 | 12.4 | | | 0.0 | 1.1 | 20.0 | | | | 33.5 | 50.0 | -16.5 |
| 12.816 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 12.936 | 12.0 | | | 0.0 | 1.0 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 13.512 | 11.9 | | | 0.0 | 1.0 | 20.0 | | | | 32.9 | 50.0 | -17.1 |
| 12.696 | 11.7 | | | 0.0 | 1.0 | 20.0 | | | | 32.7 | 50.0 | -17.3 |
| 0.489 | 8.5 | | | 0.0 | 0.2 | 20.0 | | | | 28.7 | 46.2 | -17.4 |
| 2.736 | 7.9 | | | 0.0 | 0.5 | 20.0 | | | | 28.4 | 46.0 | -17.6 |
| 13.728 | 11.3 | | | 0.0 | 1.1 | 20.0 | | | | 32.4 | 50.0 | -17.6 |
| 0.399 | 10.0 | | | 0.0 | 0.2 | 20.0 | | | | 30.2 | 47.9 | -17.6 |
| 13.392 | 11.3 | | | 0.0 | 1.0 | 20.0 | | | | 32.3 | 50.0 | -17.7 |
| 2.936 | 7.8 | | | 0.0 | 0.5 | 20.0 | | | | 28.3 | 46.0 | -17.7 |
| 13.992 | 11.2 | | | 0.0 | 1.1 | 20.0 | | | | 32.3 | 50.0 | -17.7 |
| 1.375 | 7.8 | | | 0.0 | 0.4 | 20.0 | | | | 28.2 | 46.0 | -17.8 |
| 4.917 | 7.6 | | | 0.0 | 0.6 | 20.0 | | | | 28.2 | 46.0 | -17.8 |
| 13.632 | 11.1 | | | 0.0 | 1.1 | 20.0 | | | | 32.2 | 50.0 | -17.8 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:29 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

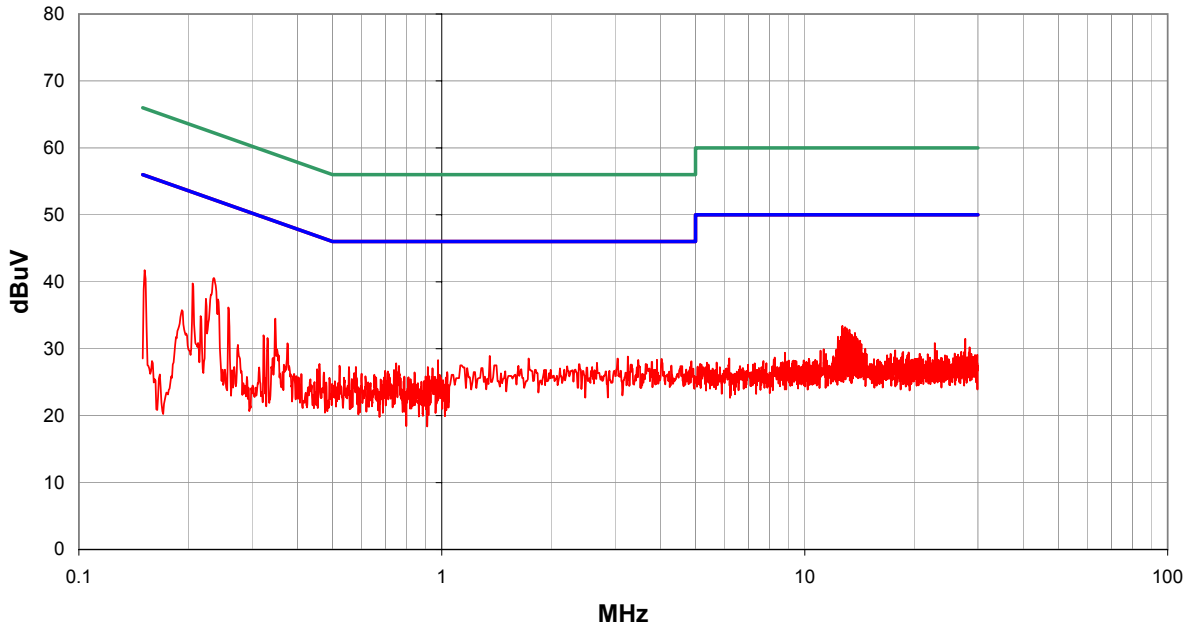
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 8 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.236 | 20.4 | | | 0.0 | 0.2 | 20.0 | | | | 40.6 | 52.3 | -11.7 |
| 0.206 | 19.6 | | | 0.0 | 0.2 | 20.0 | | | | 39.8 | 53.4 | -13.6 |
| 0.152 | 21.6 | | | 0.0 | 0.1 | 20.0 | | | | 41.7 | 55.9 | -14.2 |
| 0.348 | 14.3 | | | 0.0 | 0.2 | 20.0 | | | | 34.5 | 49.0 | -14.5 |
| 0.242 | 17.2 | | | 0.0 | 0.2 | 20.0 | | | | 37.4 | 52.0 | -14.7 |
| 0.224 | 17.3 | | | 0.0 | 0.2 | 20.0 | | | | 37.5 | 52.7 | -15.2 |
| 0.258 | 16.0 | | | 0.0 | 0.2 | 20.0 | | | | 36.2 | 51.5 | -15.3 |
| 12.696 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 12.924 | 12.2 | | | 0.0 | 1.0 | 20.0 | | | | 33.2 | 50.0 | -16.8 |
| 13.056 | 12.0 | | | 0.0 | 1.0 | 20.0 | | | | 33.0 | 50.0 | -17.0 |
| 1.355 | 8.5 | | | 0.0 | 0.4 | 20.0 | | | | 28.9 | 46.0 | -17.1 |
| 12.816 | 11.9 | | | 0.0 | 1.0 | 20.0 | | | | 32.9 | 50.0 | -17.1 |
| 13.272 | 11.8 | | | 0.0 | 1.0 | 20.0 | | | | 32.8 | 50.0 | -17.2 |
| 3.256 | 8.3 | | | 0.0 | 0.5 | 20.0 | | | | 28.8 | 46.0 | -17.2 |
| 1.735 | 8.1 | | | 0.0 | 0.4 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 3.056 | 8.0 | | | 0.0 | 0.5 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 4.037 | 7.9 | | | 0.0 | 0.6 | 20.0 | | | | 28.5 | 46.0 | -17.5 |
| 0.376 | 10.6 | | | 0.0 | 0.2 | 20.0 | | | | 30.8 | 48.4 | -17.6 |
| 0.323 | 11.8 | | | 0.0 | 0.2 | 20.0 | | | | 32.0 | 49.6 | -17.6 |
| 13.752 | 11.3 | | | 0.0 | 1.1 | 20.0 | | | | 32.4 | 50.0 | -17.6 |
| 3.916 | 7.8 | | | 0.0 | 0.6 | 20.0 | | | | 28.4 | 46.0 | -17.6 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:31 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

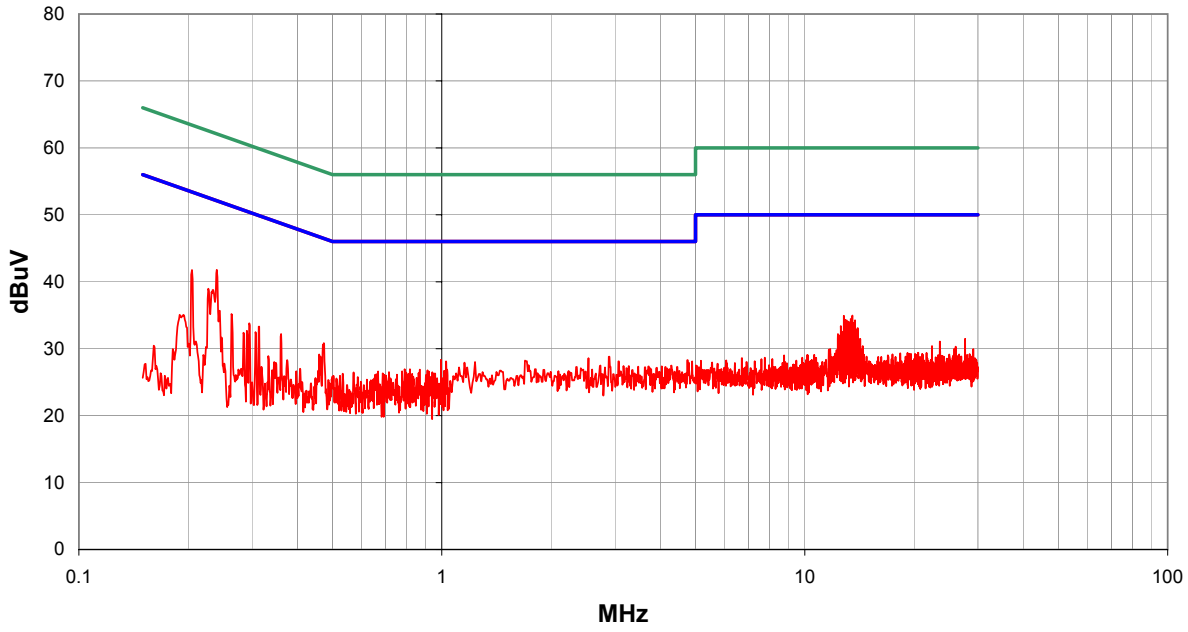
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 9 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.240 | 21.6 | | | 0.0 | 0.2 | 20.0 | | | | 41.8 | 52.1 | -10.3 |
| 0.205 | 21.6 | | | 0.0 | 0.2 | 20.0 | | | | 41.8 | 53.4 | -11.7 |
| 0.227 | 18.8 | | | 0.0 | 0.2 | 20.0 | | | | 39.0 | 52.5 | -13.6 |
| 13.536 | 13.9 | | | 0.0 | 1.0 | 20.0 | | | | 34.9 | 50.0 | -15.1 |
| 12.816 | 13.9 | | | 0.0 | 1.0 | 20.0 | | | | 34.9 | 50.0 | -15.1 |
| 13.404 | 13.4 | | | 0.0 | 1.0 | 20.0 | | | | 34.4 | 50.0 | -15.6 |
| 0.473 | 10.6 | | | 0.0 | 0.2 | 20.0 | | | | 30.8 | 46.5 | -15.6 |
| 12.936 | 13.3 | | | 0.0 | 1.0 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 13.752 | 13.2 | | | 0.0 | 1.1 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 13.056 | 13.2 | | | 0.0 | 1.0 | 20.0 | | | | 34.2 | 50.0 | -15.8 |
| 13.176 | 13.0 | | | 0.0 | 1.0 | 20.0 | | | | 34.0 | 50.0 | -16.0 |
| 13.296 | 12.9 | | | 0.0 | 1.0 | 20.0 | | | | 33.9 | 50.0 | -16.1 |
| 0.263 | 15.0 | | | 0.0 | 0.2 | 20.0 | | | | 35.2 | 51.3 | -16.1 |
| 13.632 | 12.8 | | | 0.0 | 1.1 | 20.0 | | | | 33.9 | 50.0 | -16.1 |
| 0.361 | 12.0 | | | 0.0 | 0.2 | 20.0 | | | | 32.2 | 48.7 | -16.5 |
| 0.314 | 13.1 | | | 0.0 | 0.2 | 20.0 | | | | 33.3 | 49.9 | -16.6 |
| 0.295 | 13.6 | | | 0.0 | 0.2 | 20.0 | | | | 33.8 | 50.4 | -16.6 |
| 12.576 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 13.992 | 12.0 | | | 0.0 | 1.1 | 20.0 | | | | 33.1 | 50.0 | -16.9 |
| 13.872 | 11.8 | | | 0.0 | 1.1 | 20.0 | | | | 32.9 | 50.0 | -17.1 |
| 2.896 | 8.3 | | | 0.0 | 0.5 | 20.0 | | | | 28.8 | 46.0 | -17.2 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:33 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

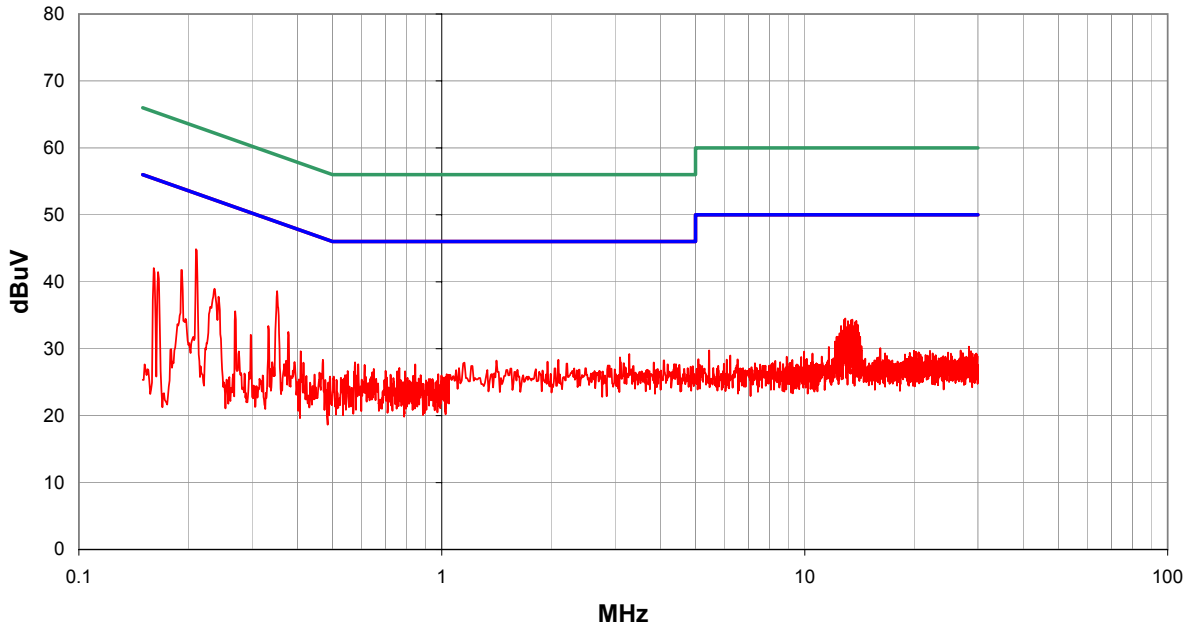
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 10 |

**Other**

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.210 | 24.7 | | | 0.0 | 0.2 | 20.0 | | | | 44.9 | 53.2 | -8.3 |
| 0.352 | 18.4 | | | 0.0 | 0.2 | 20.0 | | | | 38.6 | 48.9 | -10.3 |
| 0.192 | 21.6 | | | 0.0 | 0.2 | 20.0 | | | | 41.8 | 53.9 | -12.2 |
| 0.236 | 18.8 | | | 0.0 | 0.2 | 20.0 | | | | 39.0 | 52.2 | -13.3 |
| 0.161 | 21.9 | | | 0.0 | 0.1 | 20.0 | | | | 42.0 | 55.4 | -13.4 |
| 0.165 | 21.3 | | | 0.0 | 0.1 | 20.0 | | | | 41.4 | 55.2 | -13.7 |
| 0.243 | 17.6 | | | 0.0 | 0.2 | 20.0 | | | | 37.8 | 52.0 | -14.2 |
| 12.936 | 13.5 | | | 0.0 | 1.0 | 20.0 | | | | 34.5 | 50.0 | -15.5 |
| 0.270 | 15.4 | | | 0.0 | 0.2 | 20.0 | | | | 35.6 | 51.1 | -15.5 |
| 13.524 | 13.3 | | | 0.0 | 1.0 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 12.840 | 13.3 | | | 0.0 | 1.0 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 13.404 | 13.2 | | | 0.0 | 1.0 | 20.0 | | | | 34.2 | 50.0 | -15.8 |
| 0.378 | 12.3 | | | 0.0 | 0.2 | 20.0 | | | | 32.5 | 48.3 | -15.8 |
| 13.872 | 13.1 | | | 0.0 | 1.1 | 20.0 | | | | 34.2 | 50.0 | -15.8 |
| 13.164 | 13.1 | | | 0.0 | 1.0 | 20.0 | | | | 34.1 | 50.0 | -15.9 |
| 0.333 | 13.2 | | | 0.0 | 0.2 | 20.0 | | | | 33.4 | 49.4 | -16.0 |
| 13.752 | 12.9 | | | 0.0 | 1.1 | 20.0 | | | | 34.0 | 50.0 | -16.0 |
| 13.992 | 12.5 | | | 0.0 | 1.1 | 20.0 | | | | 33.6 | 50.0 | -16.4 |
| 13.284 | 12.5 | | | 0.0 | 1.0 | 20.0 | | | | 33.5 | 50.0 | -16.5 |
| 12.600 | 12.4 | | | 0.0 | 1.0 | 20.0 | | | | 33.4 | 50.0 | -16.6 |
| 13.656 | 12.3 | | | 0.0 | 1.1 | 20.0 | | | | 33.4 | 50.0 | -16.6 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:35 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

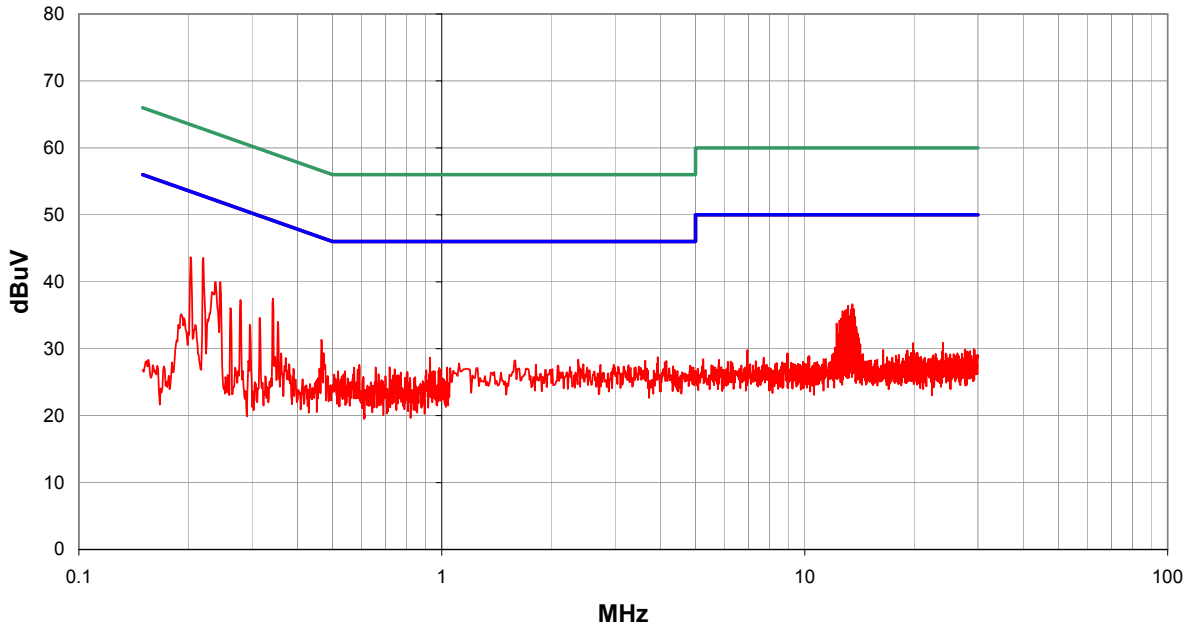
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | L1 | 11 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.220 | 23.4 | | | 0.0 | 0.2 | 20.0 | | | | 43.6 | 52.8 | -9.2 |
| 0.203 | 23.5 | | | 0.0 | 0.2 | 20.0 | | | | 43.7 | 53.5 | -9.8 |
| 0.343 | 17.3 | | | 0.0 | 0.2 | 20.0 | | | | 37.5 | 49.1 | -11.6 |
| 0.245 | 19.8 | | | 0.0 | 0.2 | 20.0 | | | | 40.0 | 51.9 | -11.9 |
| 0.238 | 19.8 | | | 0.0 | 0.2 | 20.0 | | | | 40.0 | 52.2 | -12.2 |
| 13.536 | 15.6 | | | 0.0 | 1.0 | 20.0 | | | | 36.6 | 50.0 | -13.4 |
| 13.176 | 15.4 | | | 0.0 | 1.0 | 20.0 | | | | 36.4 | 50.0 | -13.6 |
| 0.279 | 17.1 | | | 0.0 | 0.2 | 20.0 | | | | 37.3 | 50.9 | -13.6 |
| 13.656 | 14.9 | | | 0.0 | 1.1 | 20.0 | | | | 36.0 | 50.0 | -14.0 |
| 13.416 | 14.8 | | | 0.0 | 1.0 | 20.0 | | | | 35.8 | 50.0 | -14.2 |
| 13.056 | 14.8 | | | 0.0 | 1.0 | 20.0 | | | | 35.8 | 50.0 | -14.2 |
| 12.936 | 14.7 | | | 0.0 | 1.0 | 20.0 | | | | 35.7 | 50.0 | -14.3 |
| 12.720 | 14.6 | | | 0.0 | 1.0 | 20.0 | | | | 35.6 | 50.0 | -14.4 |
| 0.353 | 13.8 | | | 0.0 | 0.2 | 20.0 | | | | 34.0 | 48.9 | -14.9 |
| 12.828 | 14.0 | | | 0.0 | 1.0 | 20.0 | | | | 35.0 | 50.0 | -15.0 |
| 13.296 | 13.8 | | | 0.0 | 1.0 | 20.0 | | | | 34.8 | 50.0 | -15.2 |
| 0.316 | 14.4 | | | 0.0 | 0.2 | 20.0 | | | | 34.6 | 49.8 | -15.2 |
| 13.764 | 13.7 | | | 0.0 | 1.1 | 20.0 | | | | 34.8 | 50.0 | -15.2 |
| 0.466 | 11.1 | | | 0.0 | 0.2 | 20.0 | | | | 31.3 | 46.6 | -15.2 |
| 0.262 | 15.9 | | | 0.0 | 0.2 | 20.0 | | | | 36.1 | 51.4 | -15.3 |
| 12.600 | 13.5 | | | 0.0 | 1.0 | 20.0 | | | | 34.5 | 50.0 | -15.5 |

NORTHWEST EMC

# CONDUCTED EMISSIONS DATA SHEET

REV df2.06 08/16/2002

| | | | | | |
|---|---|---|---|---|---|
| EUT: | WN-5MP01 | | | Work Order: | INMC0024 |
| Serial Number: | 002-032 | | | Date: | 8/19/02 9:37 |
| Customer: | INTERMEC Corporation | | | Temperature: | 72 |
| Attendees: | None | | | Humidity: | 38% |
| Cust. Ref. No.: | | | | Barometric Pressure | 30 |
| Tested by: | Rod Peloquin | Power: | 120VAC/60Hz | Job Site: | EV01 |

**TEST SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Specification: | CISPR22 Class B | Year: | 1997 |
| Method: | CISPR 22 | Year: | 1997 |

**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, tested in WA21, Tx radio b corner mount antenna, Rx radio b omni antenna

**EUT OPERATING MODES**

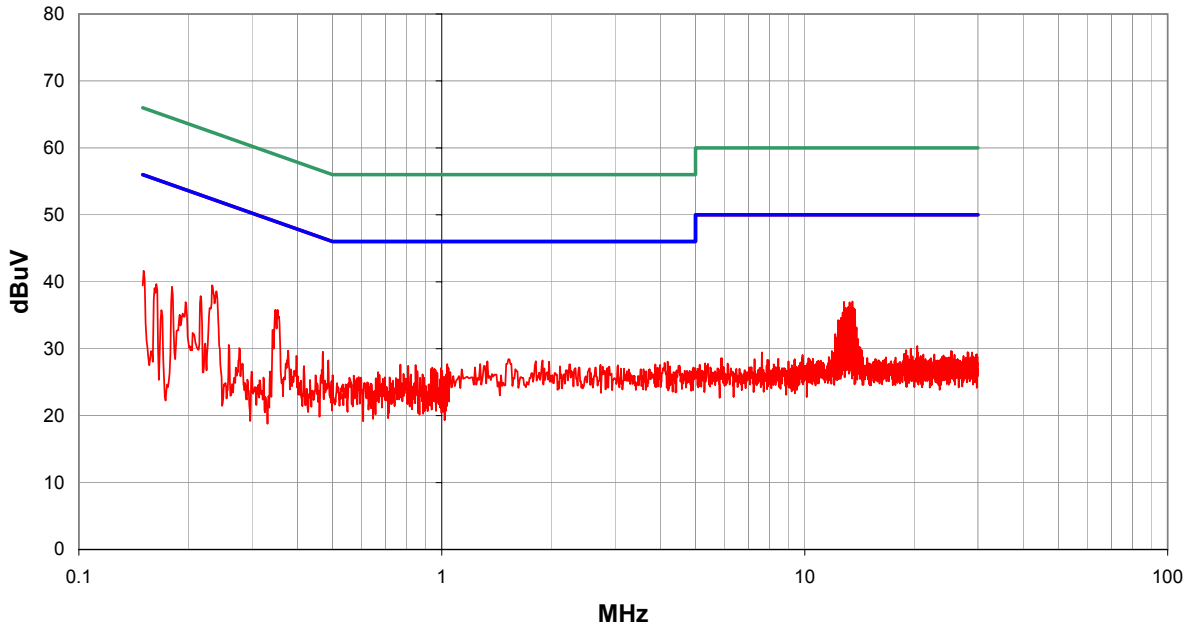
**DEVIATIONS FROM TEST STANDARD**

No deviations.

| RESULTS | Line | Run # |
|---|---|---|
| Pass | N | 12 |

Other

Tested By:




| Freq (MHz) | Amplitude (dBuV) | | | Transducer (dB) | Cable (dB) | External Attenuation (dB) | | Detector (blank equal peaks [PK] from scan) | | Adjusted dBuV | Spec. Limit dBuV | Compared to Spec. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.233 | 19.3 | | | 0.0 | 0.2 | 20.0 | | | | 39.5 | 52.3 | -12.9 |
| 13.536 | 16.0 | | | 0.0 | 1.0 | 20.0 | | | | 37.0 | 50.0 | -13.0 |
| 12.828 | 16.0 | | | 0.0 | 1.0 | 20.0 | | | | 37.0 | 50.0 | -13.0 |
| 13.296 | 15.9 | | | 0.0 | 1.0 | 20.0 | | | | 36.9 | 50.0 | -13.1 |
| 0.353 | 15.6 | | | 0.0 | 0.2 | 20.0 | | | | 35.8 | 48.9 | -13.1 |
| 0.348 | 15.6 | | | 0.0 | 0.2 | 20.0 | | | | 35.8 | 49.0 | -13.2 |
| 13.176 | 15.2 | | | 0.0 | 1.0 | 20.0 | | | | 36.2 | 50.0 | -13.8 |
| 12.960 | 15.1 | | | 0.0 | 1.0 | 20.0 | | | | 36.1 | 50.0 | -13.9 |
| 13.644 | 15.0 | | | 0.0 | 1.1 | 20.0 | | | | 36.1 | 50.0 | -13.9 |
| 13.416 | 15.0 | | | 0.0 | 1.0 | 20.0 | | | | 36.0 | 50.0 | -14.0 |
| 13.068 | 15.0 | | | 0.0 | 1.0 | 20.0 | | | | 36.0 | 50.0 | -14.0 |
| 13.764 | 14.8 | | | 0.0 | 1.1 | 20.0 | | | | 35.9 | 50.0 | -14.1 |
| 0.151 | 21.5 | | | 0.0 | 0.1 | 20.0 | | | | 41.6 | 56.0 | -14.3 |
| 12.720 | 14.4 | | | 0.0 | 1.0 | 20.0 | | | | 35.4 | 50.0 | -14.6 |
| 0.217 | 17.7 | | | 0.0 | 0.2 | 20.0 | | | | 37.9 | 52.9 | -15.1 |
| 0.181 | 19.1 | | | 0.0 | 0.2 | 20.0 | | | | 39.3 | 54.5 | -15.2 |
| 12.588 | 13.6 | | | 0.0 | 1.0 | 20.0 | | | | 34.6 | 50.0 | -15.4 |
| 0.164 | 19.5 | | | 0.0 | 0.1 | 20.0 | | | | 39.6 | 55.3 | -15.6 |
| 12.360 | 13.3 | | | 0.0 | 1.0 | 20.0 | | | | 34.3 | 50.0 | -15.7 |
| 12.480 | 13.2 | | | 0.0 | 1.0 | 20.0 | | | | 34.2 | 50.0 | -15.8 |
| 0.343 | 12.6 | | | 0.0 | 0.2 | 20.0 | | | | 32.8 | 49.1 | -16.3 |