

Exhibit Q: Spurious Radiated Emissions Revised 10-21-02

FCC ID: HN2MPCI3A-20

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

Antennas Investigated:

Lowest gain of all antennas - dipole (066147)

Highest Gain **Yagi** (063365)Highest Gain **Omni** (065349)Highest Gain **Flat Panel** (063366)**Data Rates Investigated:**

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

DC from E-net

120 V, 60 Hz

Enclosures Investigated:

WA22 (plastic)

WA21 (metal)

Frequency Range Investigated

Start Frequency

30 MHz

Stop Frequency

26 GHz

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 access point. Hyper Terminal running in Windows 98 address the AP monitor commands for setting the transmit channel and data rate.

Equipment Modifications

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

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT – 802.11(b) radio	Intermec	MPCI3A-20	none
Access Point with plastic enclosure	Intermec	WA22	022-026
Access Point with metal enclosure	Intermec	WA21	022-075
Laptop PC	Panasonic	CF-35	7KHSA02247
Remote Power Bridge	Intermec	071579	U01156281006901
Yagi antenna	Cushcraft	063365	N/A
9dB Omni antenna	Intermec	065349	N/A
flat panel antenna	Larsen	063366	N/A
dipole antenna	Intermec	066147	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Ethernet cable	No	7.5	No	Remote Power Bridge	WA22 Access Point
Ethernet cable	No	2	No	Laptop	WA21 Access Point
AC power	No	1.9	No	Remote Power Bridge	AC mains
AC power	No	2.0	No	WA21 Access Point	AC mains
Serial cable	Yes	1.5	No	Access Point	Laptop (for setup)
Antenna adapter cable	Yes	.75	No	Access Point	Antennas

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
Pre-Amplifier	Amplifier Research	LN1000A	APS	12/03/2001	12 mo
Antenna, Biconilog	EMCO	3141	AXE	12/31/2001	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P	AOP	07/09/2002	12 mo
Antenna, Horn	EMCO	3115	AHC	08/24/2001	12 mo
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	24 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	07/09/2002	12 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	01/17/2000	36 mo
Antenna, Horn	EMCO	3160-09	AHG	01/15/2000	36 mo
DC Power Supply	Topward	TPS-2000	TPD	NCR	0 mo
High Pass Filter	RLC Electronics	F-100-4000-5-R (HPF>	HFF	02/04/2002	12 mo

Test Description

Requirement: The field strength of any spurious emissions or modulation products that fall in a restricted band, as defined in 47 CFR 15.205, is measured. The peak level must comply with the limits specified in 47 CFR 15.35(b). The average level (taken with a 10Hz VBW) must comply with the limits specified in 15.209.

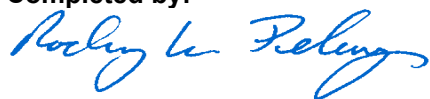
Configuration: The highest gain of each type of antenna to be used with the EUT was tested. In addition, the lowest gain of all the antennas to be used with the EUT was tested. The EUT can be used in either the applicant's WA22 access point or the WA21 access point. The access points are the same except that the WA22 uses a plastic enclosure and the WA21 uses a metal enclosure. The EUT was tested in both enclosures. The EUT can be configured in the access points as a single unit or as a pair. It was tested with just one radio transmitting and with both radios transmitting. The EUT was configured for the lowest, middle, and highest channel transmit frequencies.

For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:1992). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Bandwidths Used for Measurements

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 – 0.15	1.0	0.2	0.2
0.15 – 30.0	10.0	9.0	9.0
30.0 – 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0
<i>Measurements were made using the bandwidths and detectors specified. No video filter was used.</i>			

Completed by:



NORTHWEST

REV
d2.05
07/31/2002

EMC

OATS DATA SHEET

EUT: MPC13A-20

Serial Number: none

Customer: Intermec Corporation

Attendees: None

Cust. Ref. No.:

Tested by: Rod Peloquin

Power: DC from E-net

Work Order: INMC0023

Date: 08/09/02

Temperature: 77

Humidity: 38%

Barometric Pressure: 30.26

Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC Part 15.209(a)

Method: ANSI C63.4

Year: Current 47CFR

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

see notes

EUT OPERATING MODES

Transmitting radio b

DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS

Pass

Test Distance (m)
1

Run #
4

Other



Tested By:

100.0

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20.0

10.0

0.0

dBuV/m

2400.000

2410.000

2420.000

2430.000

2440.000

2450.000

2460.000

2470.000

2480.000

2490.000

2500.000

MHz

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2491.750	22.5	33.3	310.0	1.3	1.0	0.0	V-Horn	AV	0.0	55.8	63.5	-7.7	"high channel, Flat Panel "
2491.750	19.2	33.3	295.0	1.0	1.0	0.0	H-Horn	AV	0.0	52.5	63.5	-11.0	"high channel, flat panel antenna"
2491.750	36.2	33.3	310.0	1.3	1.0	0.0	V-Horn	PK	0.0	69.5	83.5	-14.0	"high channel, flat panel antenna"
2491.750	32.6	33.3	295.0	1.0	1.0	0.0	H-Horn	PK	0.0	65.9	83.5	-17.6	"high channel, flat panel antenna"

NORTHWEST

REV

df2.05

07/31/2002

EMC

OATS DATA SHEET

EUT: MPC13A-20

Serial Number: none

Customer: Intermec Corporation

Attendees: None

Cust. Ref. No.:

Tested by: Rod Peloquin

Work Order: INMC0023

Date: 08/09/02

Temperature: 77

Humidity: 38%

Barometric Pressure 30.26

Power: DC from E-net

Job Site: EV01

TEST SPECIFICATIONS

Specification: FCC Part 15.209(a)

Method: ANSI C63.4

Year: 2000

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

see notes

EUT OPERATING MODES

Transmitting radio b

DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS

Test Distance (m)

Run #

Pass

3

5

Other

Tested By:

80.0

70.0

60.0

50.0

40.0

30.0

20.0

10.0

0.0

4800.000

4820.000

4840.000

4860.000

4880.000

4900.000

4920.000

4940.000

4960.000

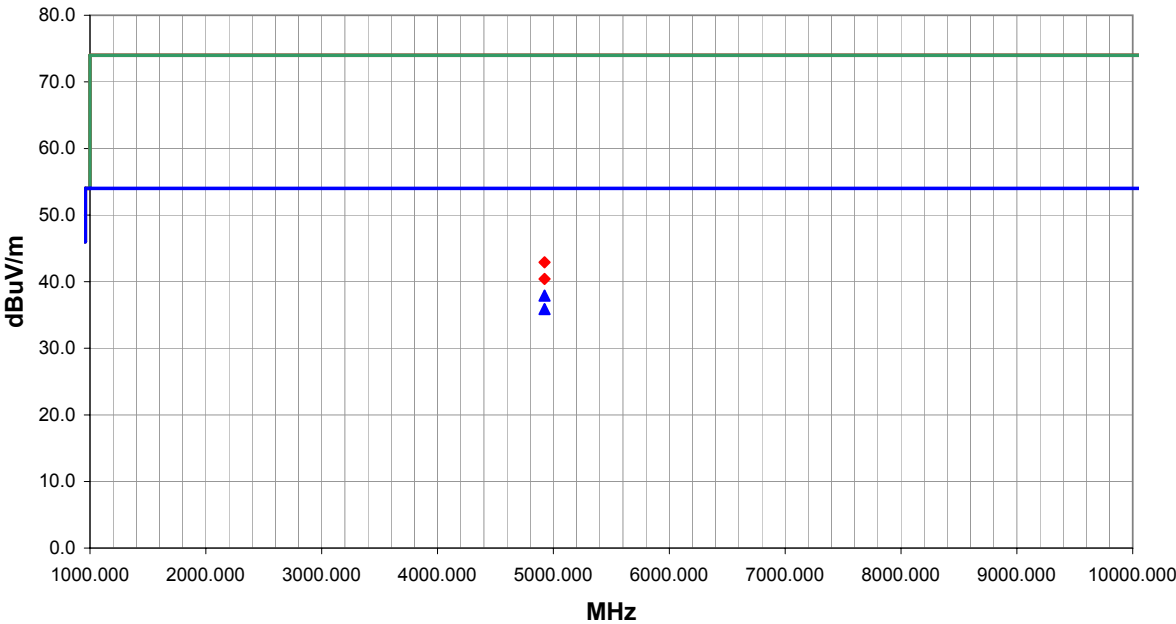
4980.000

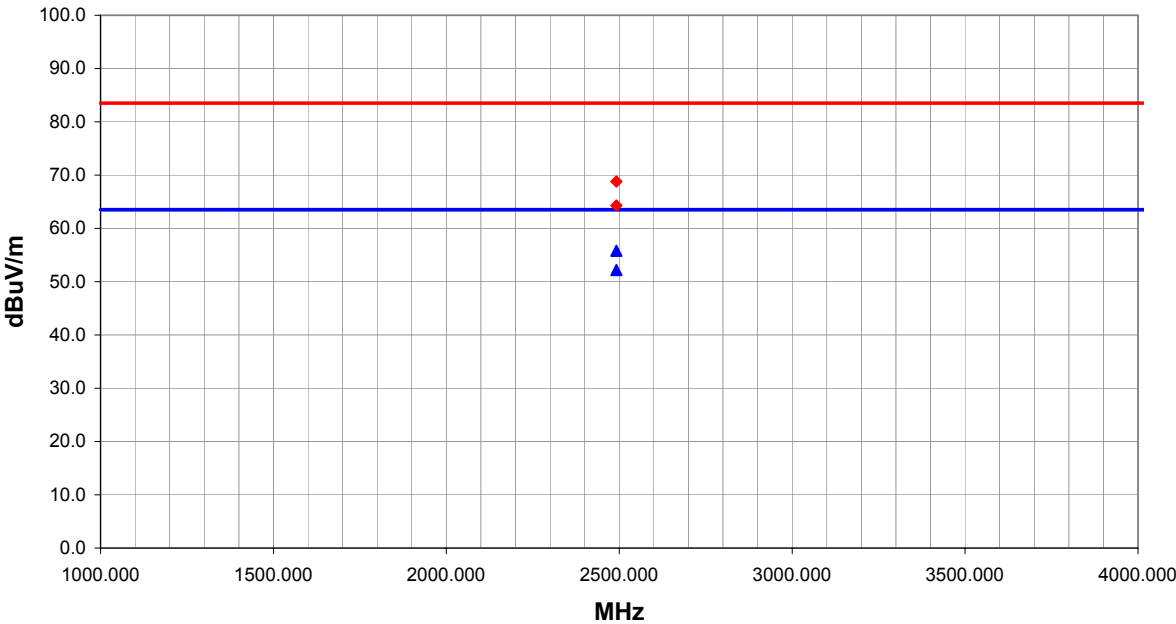
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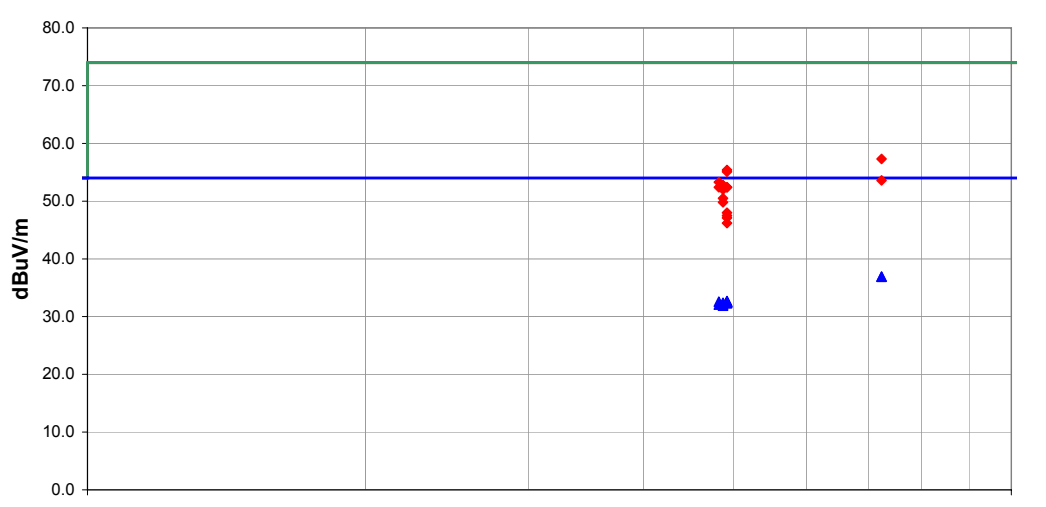
dBuV/m

MHz

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4824.000	31.3	7.3	14.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	"low channel, flat panel antenna"
4876.000	30.6	7.5	13.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	"mid channel, flat panel"
4924.000	30.2	7.7	11.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.9	54.0	-16.1	"high channel, flat panel antenna"
4876.000	28.1	7.5	312.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.6	54.0	-18.4	"mid channel, flat panel"
4924.000	27.3	7.7	272.0	1.4	3.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0	"high channel, flat panel antenna"
4924.000	27.3	7.7	257.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.0	54.0	-19.0	"high channel, dipole antenna"
4924.000	25.9	7.7	45.0	2.7	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4	"high channel, omni antenna"
4924.000	25.8	7.7	119.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.5	54.0	-20.5	"high channel, dipole antenna"
4954.000	25.0	7.8	190.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.8	54.0	-21.2	"mid channel, omni antenna"
4954.000	25.0	7.8	222.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	"mid channel, omni antenna"
4924.000	25.0	7.7	89.0	2.1	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	"high channel, yagi antenna"
4824.000	25.2	7.3	282.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.5	54.0	-21.5	"low channel, flat panel antenna"
4924.000	24.7	7.7	233.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	"high channel, yagi antenna"
4924.000	24.6	7.7	263.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	"high channel, omni antenna"
4924.000	44.1	7.7	11.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2	"high channel, flat panel"
4924.000	43.8	7.7	257.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	"high channel, dipole antenna"
4824.000	43.5	7.3	14.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.8	74.0	-23.2	"low channel, flat panel antenna"
4876.000	42.8	7.5	13.0	1.4	3.0	0.0	H-Horn	PK	0.0	50.3	74.0	-23.7	"mid channel, flat panel"
4924.000	40.7	7.7	272.0	1.4	3.0	0.0	V-Horn	PK	0.0	48.4	74.0	-25.6	"high channel., flat panel antenna"
4876.000	40.3	7.5	312.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.8	74.0	-26.2	"mid channel, flat panel"
4924.000	39.5	7.7	119.0	1.3	3.0	0.0	H-Horn	PK	0.0	47.2	74.0	-26.8	"high channel, dipole antenna"
4824.000	39.7	7.3	282.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.0	74.0	-27.0	"low channel, flat panel antenna"
4954.000	38.9	7.8	222.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3	"mid channel, omni antenna"
4924.000	38.9	7.7	45.0	2.7	3.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4	"high channel, omni antenna"
4924.000	38.1	7.7	89.0	2.1	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2	"high channel, yagi antenna"
4924.000	38.0	7.7	263.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.7	74.0	-28.3	"high channel, omni antenna"
4924.000	37.9	7.7	233.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.6	74.0	-28.4	"high channel, yagi antenna"
4954.000	37.7	7.8	190.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.5	74.0	-28.5	"mid channel, omni antenna"

NORTHWEST										REV				
EMC										OATS DATA SHEET				
										df2.05 07/31/2002				
EUT: MPC13A-20					Work Order: INMC0023									
Serial Number: none					Date: 08/11/02									
Customer: Intermec Corporation					Temperature: 77									
Attendees: None					Humidity: 38%									
Cust. Ref. No.:					Barometric Pressure: 30.26									
Tested by: Greg Kiemel					Power: 120 V, 60 Hz					Job Site: EV01				
TEST SPECIFICATIONS														
Specification: FCC Part 15.247(c)										Year: 2001				
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														
flat panel antenna														
EUT OPERATING MODES														
Transmitting radio b														
DEVIATIONS FROM TEST STANDARD														
No deviations.														
RESULTS										Test Distance (m)		Run #		
Pass										3		7		
Other														
 Tested By: _____														
														
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	
4924.000	30.2	7.7	46.0	1.2	3.0	0.0	H-Horn	AV	0.0	37.9	54.0	-16.1	"high channel"	
4924.000	28.2	7.7	24.0	1.3	3.0	0.0	V-Horn	AV	0.0	35.9	54.0	-18.1	"high channel"	
4924.000	35.2	7.7	46.0	1.2	3.0	0.0	H-Horn	PK	0.0	42.9	74.0	-31.1	"high channel"	
4924.000	32.7	7.7	24.0	1.3	3.0	0.0	V-Horn	PK	0.0	40.4	74.0	-33.6	"high channel"	

NORTHWEST										REV				
EMC										df2.05				
OATS DATA SHEET										07/31/2002				
EUT: MPC13A-20					Work Order: INMC0023									
Serial Number: none					Date: 08/11/02									
Customer: Intermec Corporation					Temperature: 77									
Attendees: None					Humidity: 38%									
Cust. Ref. No.:					Barometric Pressure: 30.26									
Tested by: Greg Kiemel					Power: 120 V, 60 Hz					Job Site: EV01				
TEST SPECIFICATIONS														
Specification: FCC 15.247(c)										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														
flat panel antenna														
EUT OPERATING MODES														
Transmitting radio b														
DEVIATIONS FROM TEST STANDARD														
No deviations.														
RESULTS										Test Distance (m)		Run #		
Pass										1		9		
Other														
 Tested By: _____														
														
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments	
2491.750	22.5	33.3	326.0	1.1	1.0	0.0	V-Horn	AV	0.0	55.8	63.5	-7.7	"high channel"	
2491.750	18.9	33.3	120.0	1.3	1.0	0.0	H-Horn	AV	0.0	52.2	63.5	-11.3	"high channel"	
2491.750	35.5	33.3	326.0	1.1	1.0	0.0	V-Horn	PK	0.0	68.8	83.5	-14.7	"high channel"	
2491.750	31.0	33.3	120.0	1.3	1.0	0.0	H-Horn	PK	0.0	64.3	83.5	-19.2	"high channel"	

NORTHWEST EMC										OATS DATA SHEET										REV d13.00 08/20/2002	
EUT: MPC13A-20										Work Order: INMC0042											
Serial Number:										Date: 10/12/02											
Customer: INTERMEC Corporation										Temperature: 75											
Attendees: none										Humidity: 31%											
Cust. Ref. No.:										Barometric Pressure: 30.27											
Tested by: Dan Haas										Power: DC power on Enet										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																					
EUT OPERATING MODES																					
Transmitting on both radios																					
DEVIATIONS FROM TEST STANDARD																					
No deviations.																					
RESULTS																					
															Test Distance (m)		Run #				
Pass															3		3				
Other																					
 Tested By:																					
																					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments								
7236.000	26.5	10.4	218.0	1.4	3.0	0.0	H-Horn	AV	0.0	36.9	54.0	-17.1	"Low Channel, Dipole Antenna"								
7236.000	26.5	10.4	167.0	1.3	3.0	0.0	V-Horn	AV	0.0	36.9	54.0	-17.1	"Low Channel, Dipole Antenna"								
4924.000	25.2	7.5	301.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	"High Channel, Dipole Antenna"								
4924.000	25.1	7.5	0.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	"High Channel, Yagi Antenna"								
4924.000	25.1	7.5	244.0	1.1	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	"High Channel, Omni Antenna"								
4824.000	25.5	7.1	255.0	1.2	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	"Low Channel, Flat Panel Antenna"								
4923.864	25.0	7.5	301.0	1.2	3.0	0.0	H-Horn	AV	0.0	32.5	54.0	-21.5	"High Channel, Flat Panel Antenna"								
4924.000	25.0	7.5	320.0	1.1	3.0	0.0	H-Horn	AV	0.0	32.5	54.0	-21.5	"High Channel, Yagi Antenna"								
4924.000	25.0	7.5	257.0	1.3	3.0	0.0	V-Horn	AV	0.0	32.5	54.0	-21.5	"High Channel, Flat Panel Antenna"								
4873.890	25.2	7.2	338.0	1.2	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	"Mid Channel, Flat Panel Antenna"								
4924.000	24.9	7.5	56.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.4	54.0	-21.6	"High Channel, Dipole Antenna"								
4924.000	24.8	7.5	360.0	1.3	3.0	0.0	V-Horn	AV	0.0	32.3	54.0	-21.7	"High Channel, Omni Antenna"								
4873.930	25.0	7.2	155.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.2	54.0	-21.8	"Mid Channel, Omni Antenna"								
4824.000	25.0	7.1	280.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.1	54.0	-21.9	"Low Channel, Flat Panel Antenna"								
4873.880	24.8	7.2	21.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.0	54.0	-22.0	"Mid Channel, Omni Antenna"								
4873.900	24.7	7.2	243.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.9	54.0	-22.1	"Mid Channel, Flat Panel Antenna"								
7236.000	46.9	10.4	218.0	1.4	3.0	0.0	H-Horn	PK	0.0	57.3	74.0	-16.7	"Low Channel, Dipole Antenna"								
4923.864	47.9	7.5	301.0	1.2	3.0	0.0	H-Horn	PK	0.0	55.4	74.0	-18.6	"High Channel, Flat Panel Antenna"								
4924.000	47.6	7.5	244.0	1.1	3.0	0.0	H-Horn	PK	0.0	55.1	74.0	-18.9	"High Channel, Omni Antenna"								
7236.000	43.2	10.4	167.0	1.3	3.0	0.0	V-Horn	PK	0.0	53.6	74.0	-20.4	"Low Channel, Dipole Antenna"								
4824.000	46.2	7.1	255.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	"Low Channel, Flat Panel Antenna"								
4873.890	45.6	7.2	338.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.8	74.0	-21.2	"Mid Channel, Flat Panel Antenna"								
4924.000	44.9	7.5	257.0	1.3	3.0	0.0	V-Horn	PK	0.0	52.4	74.0	-21.6	"High Channel, Flat Panel Antenna"								
4924.000	44.9	7.5	301.0	1.3	3.0	0.0	H-Horn	PK	0.0	52.4	74.0	-21.6	"High Channel, Dipole Antenna"								
4824.000	45.3	7.1	280.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.4	74.0	-21.6	"Low Channel, Flat Panel Antenna"								
4873.930	44.8	7.2	155.0	1.3	3.0	0.0	H-Horn	PK	0.0	52.0	74.0	-22.0	"Mid Channel, Omni Antenna"								
4873.900	43.3	7.2	243.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.5	74.0	-23.5	"Mid Channel, Flat Panel Antenna"								
4873.880	42.6	7.2	21.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.8	74.0	-24.2	"Mid Channel, Omni Antenna"								
4924.000	40.5	7.5	56.0	1.2	3.0	0.0	V-Horn	PK	0.0	48.0	74.0	-26.0	"High Channel, Dipole Antenna"								
4924.000	40.0	7.5	0.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5	"High Channel, Yagi Antenna"								
4924.000	39.6	7.5	320.0	1.1	3.0	0.0	H-Horn	PK	0.0	47.1	74.0	-26.9	"High Channel, Yagi Antenna"								
4924.000	38.7	7.5	360.0	1.3	3.0	0.0	V-Horn	PK	0.0	46.2	74.0	-27.8	"High Channel, Omni Antenna"								

