

**Exhibit Q: Spur. Radiated Emissions Revised 10-21-02 P2**

**FCC ID: HN2MPCI3A-20**

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 07/31/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/09/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Rod Peloquin	Power: DC from E-net
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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, yagi antenna

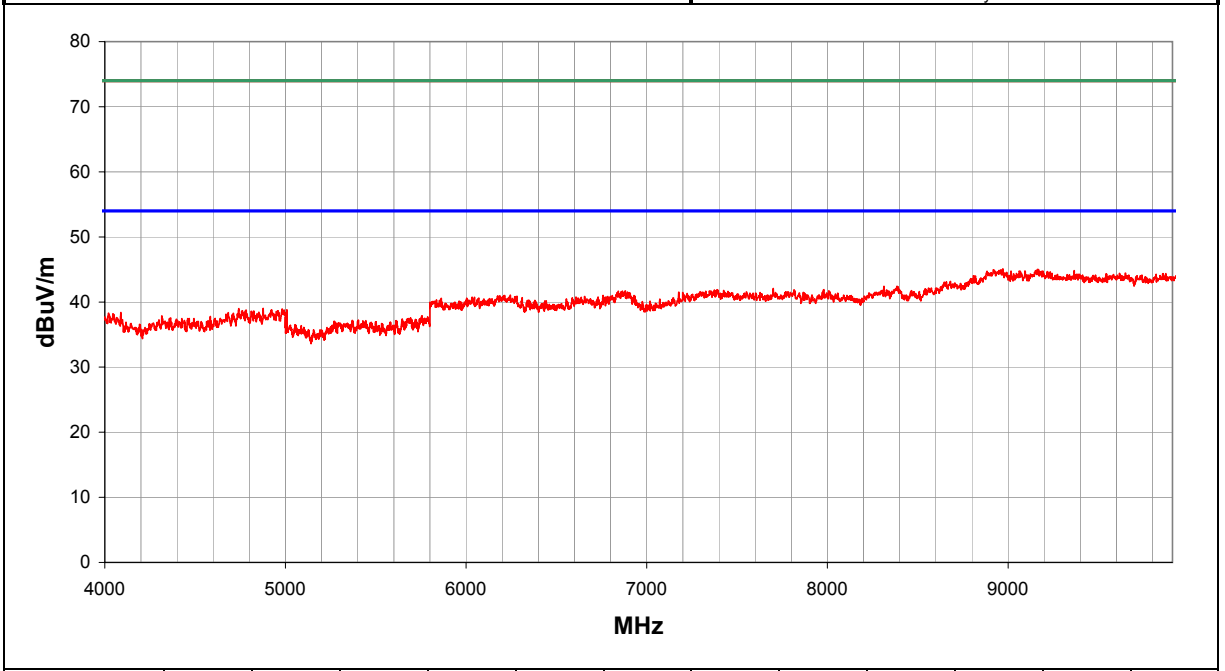
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8971.047	29.4	31.0	0.0	40.3	6.4	0.0	H		0.0	45.1	74.0	-28.9
9161.277	29.5	30.9	0.0	39.9	6.5	0.0	H		0.0	45.0	74.0	-29.0
9162.787	29.5	30.9	0.0	39.9	6.5	0.0	V		0.0	45.0	74.0	-29.0
9366.605	29.8	30.9	0.0	39.4	6.5	0.0	H		0.0	44.8	74.0	-29.2
8385.965	30.2	32.0	0.0	38.0	6.2	0.0	H		0.0	42.4	74.0	-31.6
8313.496	30.4	32.1	0.0	38.0	6.2	0.0	H		0.0	42.4	74.0	-31.6
8392.004	30.1	32.0	0.0	38.0	6.2	0.0	V		0.0	42.3	74.0	-31.7
7700.531	31.0	32.8	0.0	37.9	6.0	0.0	V		0.0	42.1	74.0	-31.9
7981.348	30.8	32.7	0.0	37.7	6.1	0.0	V		0.0	41.9	74.0	-32.1
7389.520	31.1	32.9	0.0	37.8	5.9	0.0	H		0.0	41.9	74.0	-32.1
8008.523	30.6	32.7	0.0	37.7	6.1	0.0	H		0.0	41.7	74.0	-32.3
6881.705	32.0	33.0	0.0	37.0	5.8	0.0	V		0.0	41.7	74.0	-32.3
6874.445	31.8	33.0	0.0	37.0	5.7	0.0	H		0.0	41.5	74.0	-32.5
7199.289	31.1	33.0	0.0	37.5	5.9	0.0	H		0.0	41.5	74.0	-32.5
6244.056	31.6	32.6	0.0	36.6	5.5	0.0	H		0.0	41.1	74.0	-32.9
6208.967	31.5	32.6	0.0	36.6	5.5	0.0	V		0.0	41.0	74.0	-33.0
4876.500	31.6	32.0	0.0	35.0	4.4	0.0	V		0.0	39.0	74.0	-35.0
4742.201	32.1	32.0	0.0	34.6	4.3	0.0	V		0.0	39.0	74.0	-35.0
4982.525	31.1	31.9	0.0	35.3	4.5	0.0	H		0.0	38.9	74.0	-35.1
5007.770	30.9	31.9	0.0	35.3	4.5	0.0	V		0.0	38.8	74.0	-35.2
4782.592	31.7	32.0	0.0	34.7	4.4	0.0	H		0.0	38.8	74.0	-35.2

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.05  
07/31/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/09/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Rod Peloquin	Power: DC from E-net
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

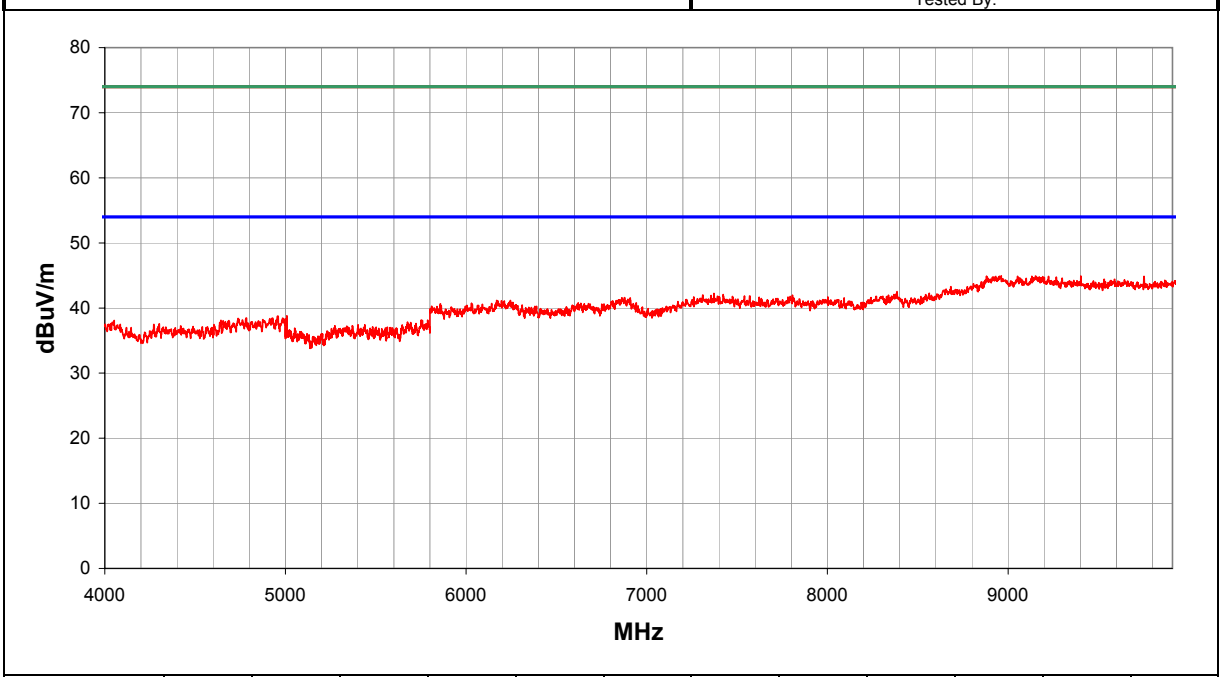
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
Evaluation	3	77

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)
8961.988	29.3	31.0	0.0	40.2	6.4	0.0	V		0.0	44.9	74.0	-29.1
9152.219	29.4	30.9	0.0	40.0	6.5	0.0	H		0.0	44.9	74.0	-29.1
9753.105	30.1	30.9	0.0	38.9	6.7	0.0	H		0.0	44.9	74.0	-29.1
8385.965	30.3	32.0	0.0	38.0	6.2	0.0	V		0.0	42.5	74.0	-31.5
7371.402	31.5	33.0	0.0	37.8	5.9	0.0	H		0.0	42.3	74.0	-31.7
8382.945	30.0	32.0	0.0	38.0	6.2	0.0	H		0.0	42.2	74.0	-31.8
7806.215	30.9	32.8	0.0	37.8	6.0	0.0	H		0.0	42.0	74.0	-32.0
7356.305	31.2	33.0	0.0	37.8	5.9	0.0	V		0.0	41.9	74.0	-32.1
8002.484	30.6	32.7	0.0	37.7	6.1	0.0	V		0.0	41.7	74.0	-32.3
6876.865	31.9	33.0	0.0	37.0	5.8	0.0	H		0.0	41.6	74.0	-32.4
6876.865	31.8	33.0	0.0	37.0	5.8	0.0	V		0.0	41.5	74.0	-32.5
6169.038	31.6	32.6	0.0	36.7	5.5	0.0	V		0.0	41.2	74.0	-32.8
6245.266	31.7	32.6	0.0	36.6	5.5	0.0	H		0.0	41.2	74.0	-32.8
6620.354	31.5	32.9	0.0	36.5	5.6	0.0	V		0.0	40.8	74.0	-33.2
6634.873	31.4	32.9	0.0	36.5	5.7	0.0	H		0.0	40.7	74.0	-33.3
5858.078	31.1	32.4	0.0	36.7	5.3	0.0	H		0.0	40.7	74.0	-33.3
6380.781	31.0	32.7	0.0	36.4	5.6	0.0	H		0.0	40.3	74.0	-33.7
5007.770	30.9	31.9	0.0	35.3	4.5	0.0	V		0.0	38.8	74.0	-35.2
4960.311	31.0	31.9	0.0	35.2	4.5	0.0	V		0.0	38.7	74.0	-35.3
4784.611	31.4	32.0	0.0	34.7	4.4	0.0	V		0.0	38.5	74.0	-35.5
4985.555	30.6	31.9	0.0	35.3	4.5	0.0	V		0.0	38.4	74.0	-35.6

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 07/31/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/09/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Rod Peloquin	Power: DC from E-net
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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, yagi antenna

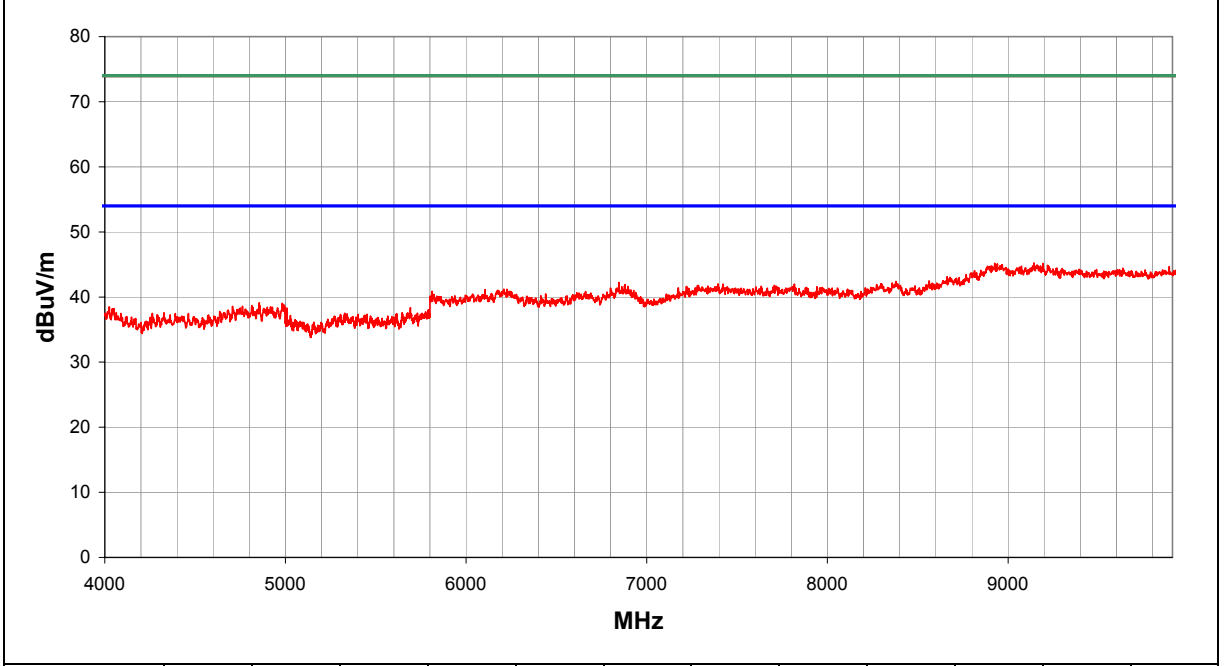
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	78

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)
9143.160	29.7	30.9	0.0	40.0	6.5	0.0	V		0.0	45.3	74.0	-28.7
8925.754	29.8	31.0	0.0	40.1	6.4	0.0	H		0.0	45.2	74.0	-28.8
8940.852	29.6	31.0	0.0	40.1	6.4	0.0	V		0.0	45.1	74.0	-28.9
9892.004	29.9	30.9	0.0	38.9	6.8	0.0	H		0.0	44.7	74.0	-29.3
8379.926	30.2	32.0	0.0	38.0	6.2	0.0	V		0.0	42.4	74.0	-31.6
6845.406	32.6	33.0	0.0	36.9	5.7	0.0	H		0.0	42.3	74.0	-31.7
8376.906	30.0	32.0	0.0	38.0	6.2	0.0	H		0.0	42.2	74.0	-31.8
7395.559	31.2	32.9	0.0	37.8	5.9	0.0	V		0.0	42.0	74.0	-32.0
7818.293	30.9	32.8	0.0	37.8	6.0	0.0	V		0.0	42.0	74.0	-32.0
7422.734	31.1	32.9	0.0	37.9	5.9	0.0	H		0.0	42.0	74.0	-32.0
6879.285	32.2	33.0	0.0	37.0	5.8	0.0	V		0.0	41.9	74.0	-32.1
7815.273	30.7	32.8	0.0	37.8	6.0	0.0	H		0.0	41.8	74.0	-32.2
7942.094	30.5	32.7	0.0	37.7	6.1	0.0	V		0.0	41.6	74.0	-32.4
6208.967	31.7	32.6	0.0	36.6	5.5	0.0	V		0.0	41.2	74.0	-32.8
6104.910	31.5	32.6	0.0	36.8	5.4	0.0	V		0.0	41.2	74.0	-32.8
6175.088	31.5	32.6	0.0	36.7	5.5	0.0	H		0.0	41.1	74.0	-32.9
5812.100	31.4	32.4	0.0	36.6	5.2	0.0	V		0.0	40.9	74.0	-33.1
6661.492	31.5	32.9	0.0	36.6	5.7	0.0	H		0.0	40.9	74.0	-33.1
6440.069	31.3	32.8	0.0	36.4	5.6	0.0	V		0.0	40.5	74.0	-33.5
4855.295	31.8	32.0	0.0	34.9	4.4	0.0	V		0.0	39.1	74.0	-34.9
4982.525	31.2	31.9	0.0	35.3	4.5	0.0	V		0.0	39.0	74.0	-35.0

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 07/31/2002

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Serial Number: none	Date: 08/09/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Rod Peloquin	Power: DC from E-net
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
Specification: FCC Part 15.209(a)	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, yagi antenna

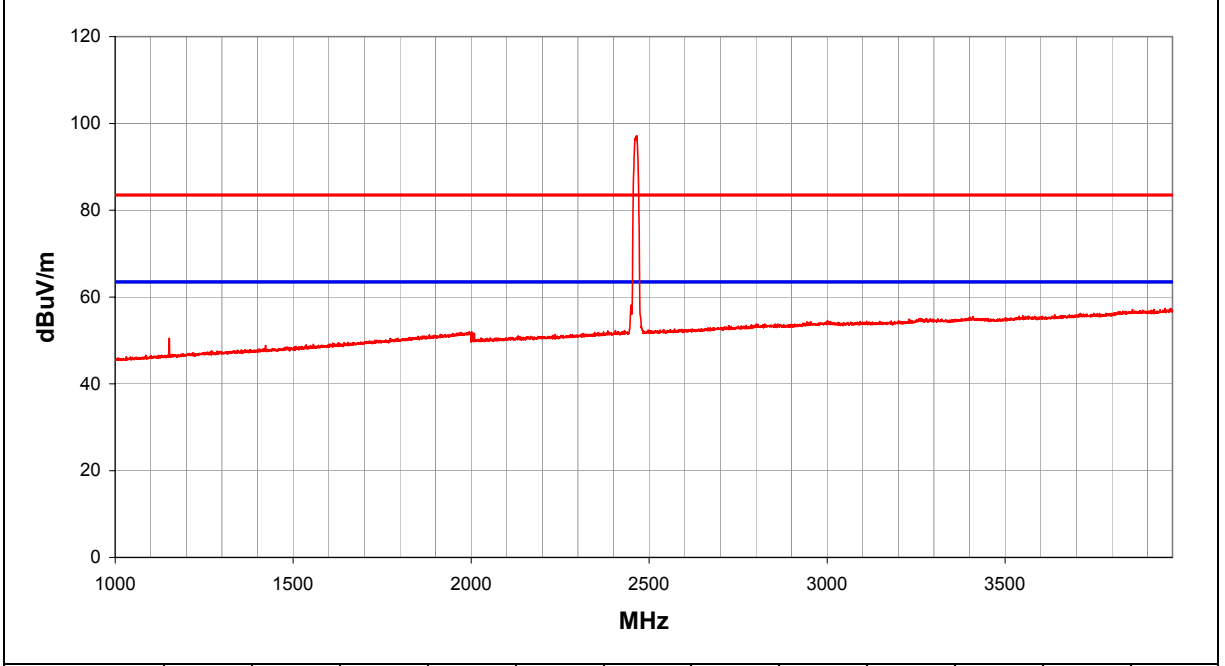
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	79

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)
2465.129	64.0	0.0	0.0	30.6	2.6	0.0	H		0.0	97.2	83.5	13.7
2463.599	61.6	0.0	0.0	30.6	2.6	0.0	V		0.0	94.8	83.5	11.3
2449.319	25.0	0.0	0.0	30.5	2.6	0.0	H		0.0	58.1	83.5	-25.4
4007.970	19.1	0.0	0.0	34.5	3.9	0.0	V		0.0	57.5	83.5	-26.0
3949.319	19.2	0.0	0.0	34.3	3.9	0.0	H		0.0	57.4	83.5	-26.1
2001.340	20.4	0.0	0.0	29.1	2.5	0.0	H		0.0	52.0	83.5	-31.5
1994.709	20.4	0.0	0.0	29.1	2.5	0.0	V		0.0	52.0	83.5	-31.5
1989.609	20.2	0.0	0.0	29.0	2.5	0.0	H		0.0	51.7	83.5	-31.8
2001.340	20.1	0.0	0.0	29.1	2.5	0.0	V		0.0	51.7	83.5	-31.8
2007.460	20.0	0.0	0.0	29.1	2.5	0.0	H		0.0	51.6	83.5	-31.9
1151.983	23.0	0.0	0.0	25.4	2.1	0.0	V		0.0	50.5	83.5	-33.0

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#2.05 07/31/2002

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Customer: Intermec Corporation	Temperature: 77
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Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Rod Peloquin	Power: DC from E-net
	Job Site: EV01

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**COMMENTS**  
 mid channel, yagi antenna

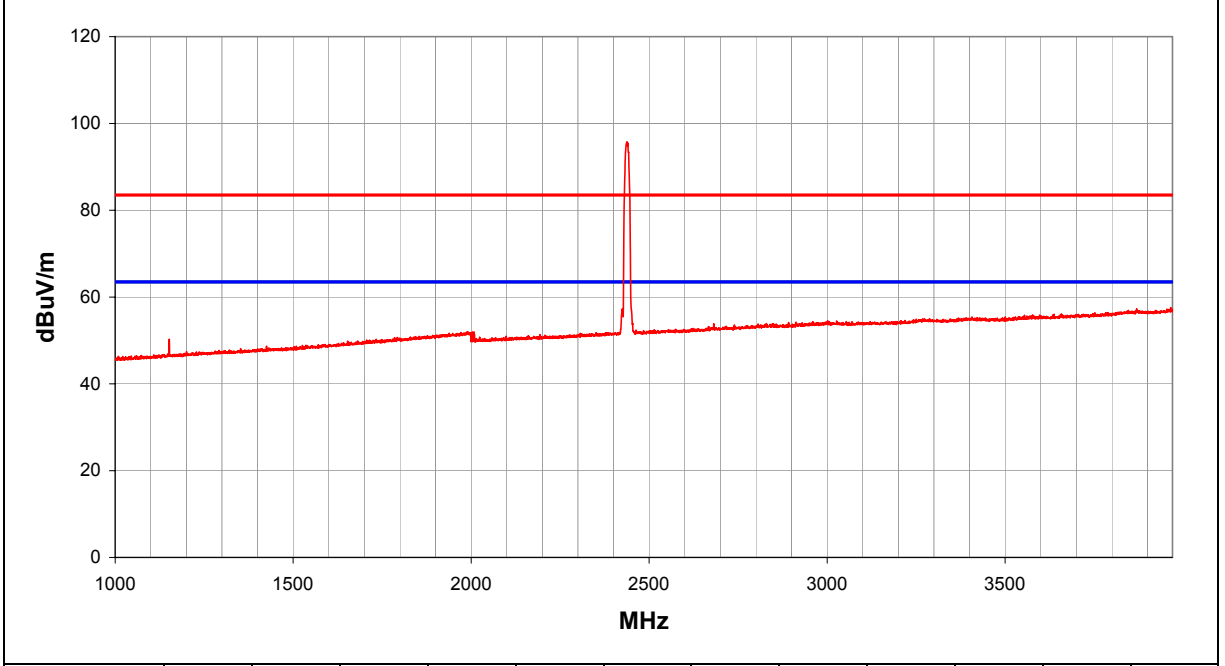
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	80

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)
2437.588	62.7	0.0	0.0	30.5	2.6	0.0	H		0.0	95.8	83.5	12.3
2438.098	57.2	0.0	0.0	30.5	2.6	0.0	V		0.0	90.3	83.5	6.8
3987.569	19.3	0.0	0.0	34.5	3.9	0.0	V		0.0	57.7	83.5	-25.8
4003.380	19.2	0.0	0.0	34.5	3.9	0.0	H		0.0	57.6	83.5	-25.9
1988.589	20.5	0.0	0.0	29.0	2.5	0.0	V		0.0	52.0	83.5	-31.5
1992.159	20.4	0.0	0.0	29.1	2.5	0.0	H		0.0	52.0	83.5	-31.5
2008.480	20.3	0.0	0.0	29.1	2.5	0.0	H		0.0	51.9	83.5	-31.6
2008.480	20.3	0.0	0.0	29.1	2.5	0.0	V		0.0	51.9	83.5	-31.6
2005.420	20.3	0.0	0.0	29.1	2.5	0.0	V		0.0	51.9	83.5	-31.6
2003.380	20.3	0.0	0.0	29.1	2.5	0.0	H		0.0	51.9	83.5	-31.6
2005.420	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	22.8	0.0	0.0	25.4	2.1	0.0	V		0.0	50.3	83.5	-33.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 07/31/2002

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 low channel, yagi antenna

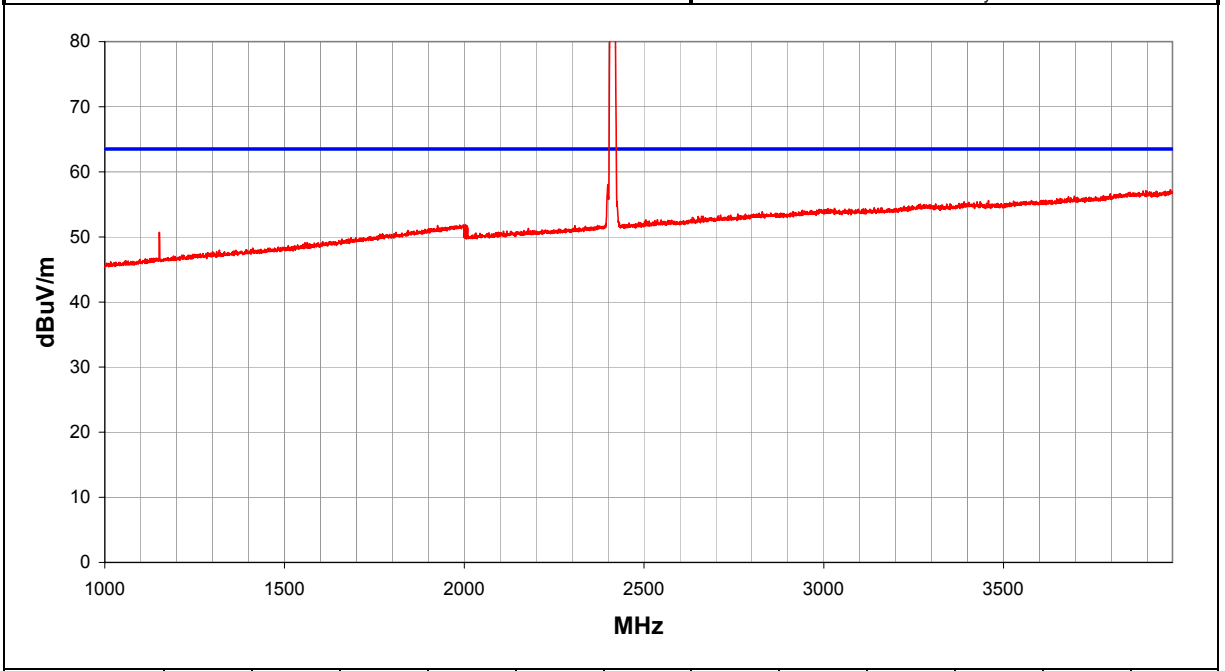
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	81

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)
2411.578	62.0	0.0	0.0	30.4	2.6	0.0	H		0.0	95.0	83.5	11.5
2412.088	57.7	0.0	0.0	30.4	2.6	0.0	V		0.0	90.7	83.5	7.2
2399.338	25.1	0.0	0.0	30.4	2.6	0.0	H		0.0	58.1	83.5	-25.4
3975.329	19.2	0.0	0.0	34.4	3.9	0.0	H		0.0	57.5	83.5	-26.0
3982.469	19.1	0.0	0.0	34.4	3.9	0.0	V		0.0	57.4	83.5	-26.1
2003.380	20.3	0.0	0.0	29.1	2.5	0.0	V		0.0	51.9	83.5	-31.6
1987.059	20.3	0.0	0.0	29.0	2.5	0.0	H		0.0	51.8	83.5	-31.7
2005.420	20.1	0.0	0.0	29.1	2.5	0.0	V		0.0	51.7	83.5	-31.8
2003.380	20.1	0.0	0.0	29.1	2.5	0.0	H		0.0	51.7	83.5	-31.8
2006.950	20.0	0.0	0.0	29.1	2.5	0.0	H		0.0	51.6	83.5	-31.9
1151.983	23.2	0.0	0.0	25.4	2.1	0.0	V		0.0	50.7	83.5	-32.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV 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

<b>TEST SPECIFICATIONS</b>	
Specification: FCC Part 15.247 Class B	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**  
 High Channel, flat panel antenna

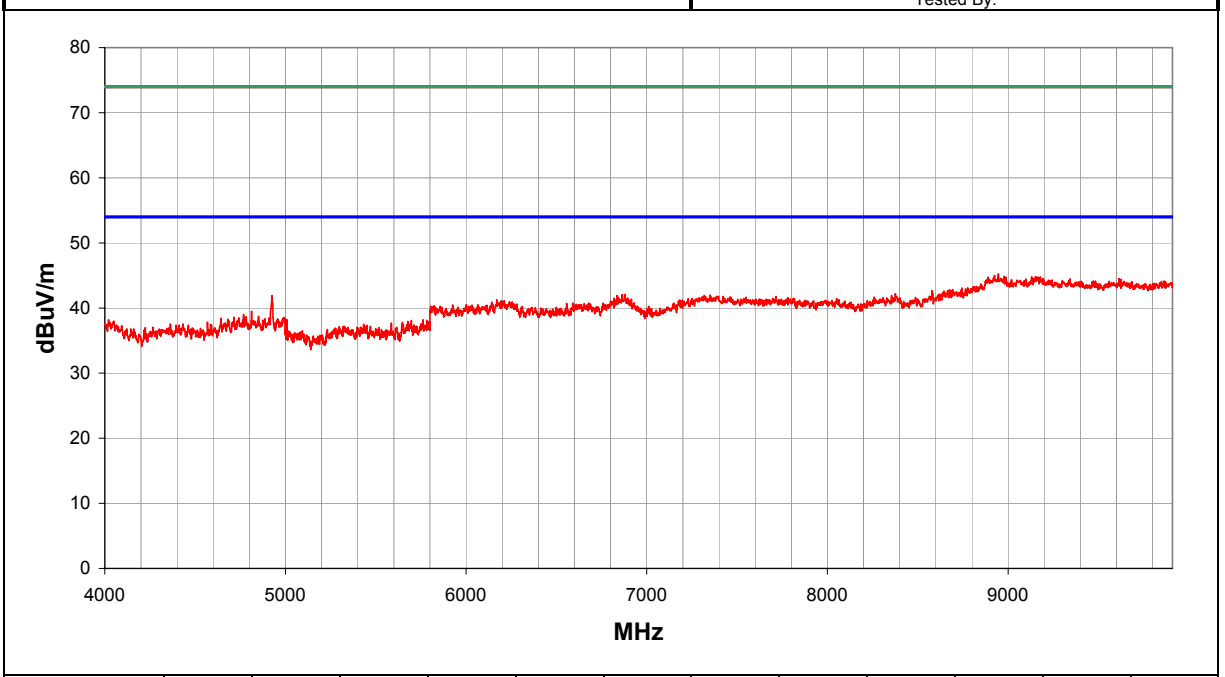
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	86

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)
8946.891	29.7	31.0	0.0	40.2	6.4	0.0	H		0.0	45.2	74.0	-28.8
8980.105	29.1	30.9	0.0	40.3	6.4	0.0	V		0.0	44.9	74.0	-29.1
9614.207	29.8	30.9	0.0	39.0	6.6	0.0	H		0.0	44.5	74.0	-29.5
8578.508	29.6	31.7	0.0	38.5	6.3	0.0	V		0.0	42.7	74.0	-31.3
8376.906	30.0	32.0	0.0	38.0	6.2	0.0	H		0.0	42.2	74.0	-31.8
6879.285	32.4	33.0	0.0	37.0	5.8	0.0	V		0.0	42.1	74.0	-31.9
7350.266	31.3	33.0	0.0	37.8	5.9	0.0	V		0.0	42.0	74.0	-32.0
6835.727	32.3	33.0	0.0	36.9	5.7	0.0	H		0.0	41.9	74.0	-32.1
8355.770	29.8	32.1	0.0	38.0	6.2	0.0	V		0.0	41.9	74.0	-32.1
4925.979	34.3	31.9	0.0	35.1	4.5	0.0	V		0.0	41.9	74.0	-32.1
4925.979	34.2	31.9	0.0	35.1	4.5	0.0	H		0.0	41.8	74.0	-32.2
7353.285	31.0	33.0	0.0	37.8	5.9	0.0	H		0.0	41.7	74.0	-32.3
6170.248	31.7	32.6	0.0	36.7	5.5	0.0	H		0.0	41.3	74.0	-32.7
6194.447	31.6	32.6	0.0	36.7	5.5	0.0	V		0.0	41.1	74.0	-32.9
6678.432	31.4	32.9	0.0	36.6	5.7	0.0	H		0.0	40.8	74.0	-33.2
5925.836	30.8	32.5	0.0	36.8	5.3	0.0	H		0.0	40.5	74.0	-33.5
4812.885	32.3	32.0	0.0	34.8	4.4	0.0	V		0.0	39.5	74.0	-34.5
4768.455	32.0	32.0	0.0	34.7	4.4	0.0	V		0.0	39.0	74.0	-35.0
4715.947	31.8	32.0	0.0	34.5	4.3	0.0	V		0.0	38.6	74.0	-35.4
4990.604	30.7	31.9	0.0	35.3	4.5	0.0	H		0.0	38.6	74.0	-35.4
4642.234	31.9	32.1	0.0	34.3	4.3	0.0	V		0.0	38.4	74.0	-35.6



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 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

<b>TEST SPECIFICATIONS</b>	
Specification: FCC Part 15.247 Class B	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**  
 Mid Channel, flat panel antenna

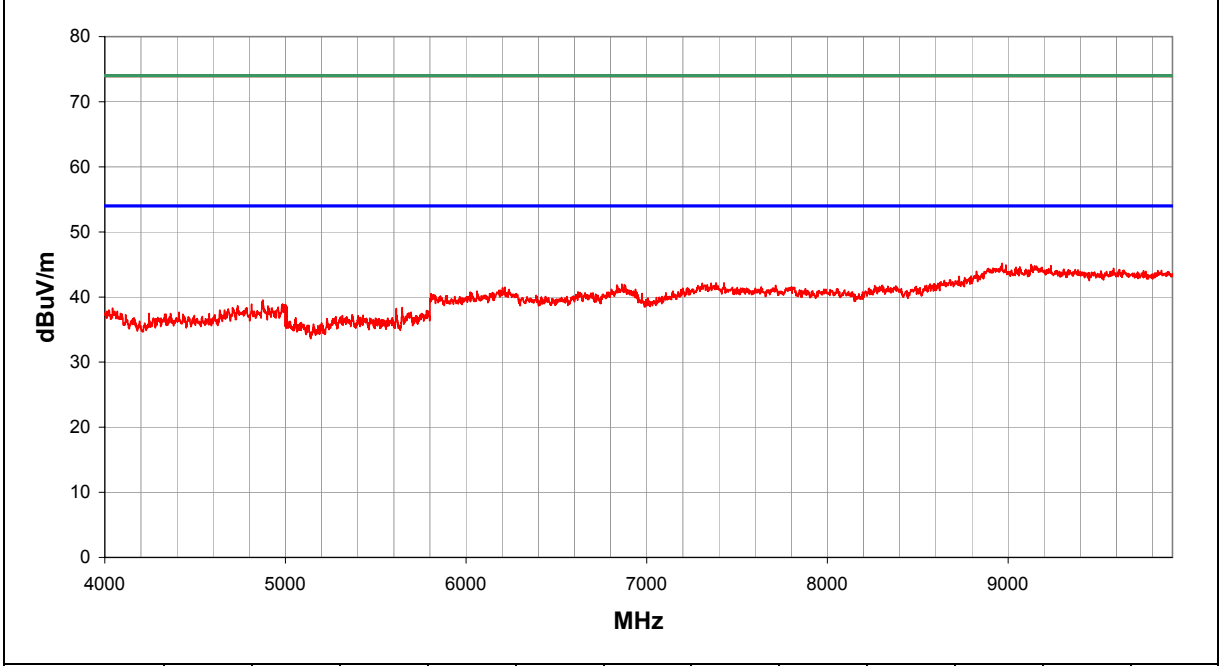
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	87

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)
8968.027	29.5	31.0	0.0	40.3	6.4	0.0	H		0.0	45.2	74.0	-28.8
9128.063	29.4	30.9	0.0	40.0	6.5	0.0	H		0.0	45.0	74.0	-29.0
8987.654	29.1	30.9	0.0	40.3	6.4	0.0	V		0.0	44.9	74.0	-29.1
9236.766	29.5	30.9	0.0	39.7	6.5	0.0	V		0.0	44.8	74.0	-29.2
9584.012	29.7	30.9	0.0	39.0	6.6	0.0	H		0.0	44.4	74.0	-29.6
7428.773	31.3	32.9	0.0	37.9	5.9	0.0	V		0.0	42.2	74.0	-31.8
7383.480	31.4	32.9	0.0	37.8	5.9	0.0	H		0.0	42.2	74.0	-31.8
6862.346	32.3	33.0	0.0	37.0	5.7	0.0	H		0.0	42.0	74.0	-32.0
6876.865	32.2	33.0	0.0	37.0	5.8	0.0	V		0.0	41.9	74.0	-32.1
8304.438	29.8	32.2	0.0	37.9	6.2	0.0	H		0.0	41.8	74.0	-32.2
8301.418	29.8	32.2	0.0	37.9	6.2	0.0	V		0.0	41.8	74.0	-32.2
6213.807	32.0	32.6	0.0	36.6	5.5	0.0	V		0.0	41.5	74.0	-32.5
6201.707	31.9	32.6	0.0	36.7	5.5	0.0	H		0.0	41.4	74.0	-32.6
6619.144	31.5	32.9	0.0	36.5	5.6	0.0	V		0.0	40.8	74.0	-33.2
4875.490	32.1	32.0	0.0	35.0	4.4	0.0	V		0.0	39.5	74.0	-34.5
4875.490	31.7	32.0	0.0	35.0	4.4	0.0	H		0.0	39.1	74.0	-34.9
4984.545	31.1	31.9	0.0	35.3	4.5	0.0	V		0.0	38.9	74.0	-35.1
4812.885	31.7	32.0	0.0	34.8	4.4	0.0	V		0.0	38.9	74.0	-35.1
5000.701	30.9	31.9	0.0	35.3	4.5	0.0	V		0.0	38.8	74.0	-35.2
4736.143	31.8	32.0	0.0	34.6	4.3	0.0	H		0.0	38.7	74.0	-35.3
5006.760	30.6	31.9	0.0	35.3	4.5	0.0	V		0.0	38.5	74.0	-35.5

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV 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

<b>TEST SPECIFICATIONS</b>	
Specification: FCC Part 15.247 Class B	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**  
 Low Channel, flat panel antenna

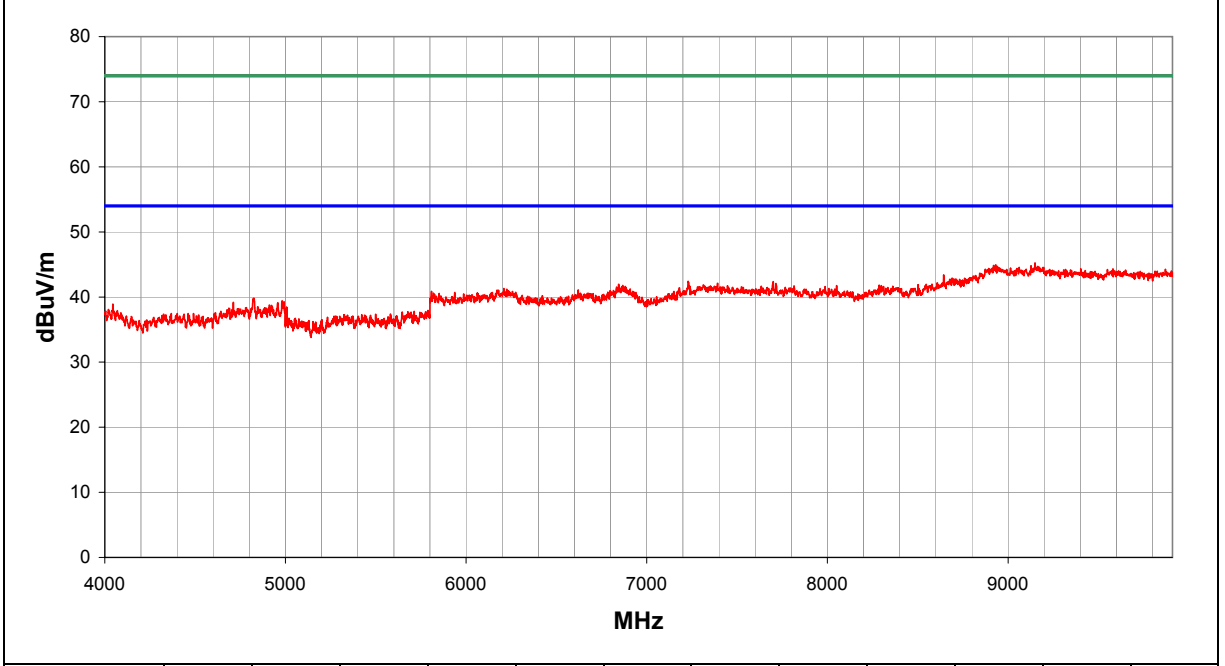
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	88

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)
9149.199	29.7	30.9	0.0	40.0	6.5	0.0	V		0.0	45.2	74.0	-28.8
8931.793	29.5	31.0	0.0	40.1	6.4	0.0	V		0.0	44.9	74.0	-29.1
9126.553	29.2	30.9	0.0	40.0	6.5	0.0	H		0.0	44.8	74.0	-29.2
8643.428	29.9	31.5	0.0	38.8	6.3	0.0	V		0.0	43.4	74.0	-30.6
7229.484	32.0	33.0	0.0	37.6	5.9	0.0	H		0.0	42.4	74.0	-31.6
7700.531	31.3	32.8	0.0	37.9	6.0	0.0	V		0.0	42.4	74.0	-31.6
6845.406	32.3	33.0	0.0	36.9	5.7	0.0	H		0.0	42.0	74.0	-32.0
8286.320	29.9	32.2	0.0	37.9	6.2	0.0	H		0.0	41.8	74.0	-32.2
8050.797	30.5	32.6	0.0	37.7	6.1	0.0	H		0.0	41.7	74.0	-32.3
6881.705	31.9	33.0	0.0	37.0	5.8	0.0	V		0.0	41.6	74.0	-32.4
7987.387	30.5	32.7	0.0	37.7	6.1	0.0	V		0.0	41.6	74.0	-32.4
6208.967	31.8	32.6	0.0	36.6	5.5	0.0	V		0.0	41.3	74.0	-32.7
6224.696	31.7	32.6	0.0	36.6	5.5	0.0	H		0.0	41.2	74.0	-32.8
6620.354	31.8	32.9	0.0	36.5	5.6	0.0	H		0.0	41.1	74.0	-32.9
5808.438	31.4	32.4	0.0	36.6	5.2	0.0	H		0.0	40.9	74.0	-33.1
5850.818	31.0	32.4	0.0	36.7	5.3	0.0	V		0.0	40.5	74.0	-33.5
4825.002	32.6	32.0	0.0	34.8	4.4	0.0	H		0.0	39.8	74.0	-34.2
4982.525	31.6	31.9	0.0	35.3	4.5	0.0	H		0.0	39.4	74.0	-34.6
4992.623	31.4	31.9	0.0	35.3	4.5	0.0	V		0.0	39.3	74.0	-34.7
4711.908	32.4	32.0	0.0	34.5	4.3	0.0	V		0.0	39.2	74.0	-34.8
4958.291	31.4	31.9	0.0	35.2	4.5	0.0	H		0.0	39.1	74.0	-34.9

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
d2.05  
07/31/2002

EUT: <b>MPCI3A-20</b>		Work Order: <b>INMC0023</b>
Serial Number: <b>none</b>		Date: <b>08/11/02</b>
Customer: <b>Intermec Corporation</b>		Temperature: <b>77</b>
Attendees: <b>None</b>		Humidity: <b>38%</b>
Cust. Ref. No.:		Barometric Pressure: <b>30.26</b>
Tested by: <b>Greg Kiemel</b>	Power: <b>120 V, 60 Hz</b>	Job Site: <b>EV01</b>

<b>TEST SPECIFICATIONS</b>	
Specification: <b>FCC 15.209</b>	Year: <b>Current 47CFR</b>
Method: <b>ANSI C63.4</b>	Year: <b>2000</b>

**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, flat panel antenna

**EUT OPERATING MODES**

Transmitting radio b

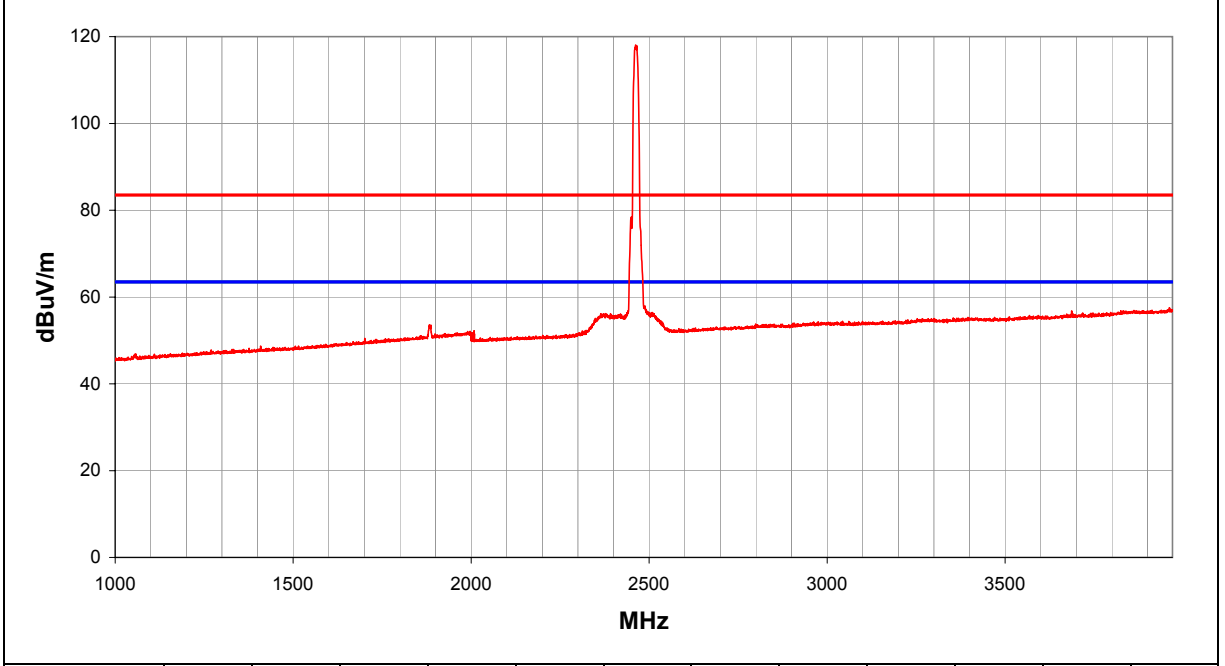
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	89

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)
2462.069	84.9	0.0	0.0	30.6	2.6	0.0	V		0.0	118.1	83.5	34.6
2463.089	67.2	0.0	0.0	30.6	2.6	0.0	H		0.0	100.4	83.5	16.9
2449.829	45.3	0.0	0.0	30.5	2.6	0.0	V		0.0	78.4	83.5	-5.1
2449.319	28.1	0.0	0.0	30.5	2.6	0.0	H		0.0	61.2	83.5	-22.3
3961.559	19.3	0.0	0.0	34.4	3.9	0.0	H		0.0	57.6	83.5	-25.9
4002.360	19.0	0.0	0.0	34.5	3.9	0.0	V		0.0	57.4	83.5	-26.1
1882.507	22.7	0.0	0.0	28.5	2.4	0.0	V		0.0	53.6	83.5	-29.9
2007.970	20.6	0.0	0.0	29.1	2.5	0.0	H		0.0	52.2	83.5	-31.3
1996.750	20.5	0.0	0.0	29.1	2.5	0.0	H		0.0	52.1	83.5	-31.4
2005.420	20.1	0.0	0.0	29.1	2.5	0.0	V		0.0	51.7	83.5	-31.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

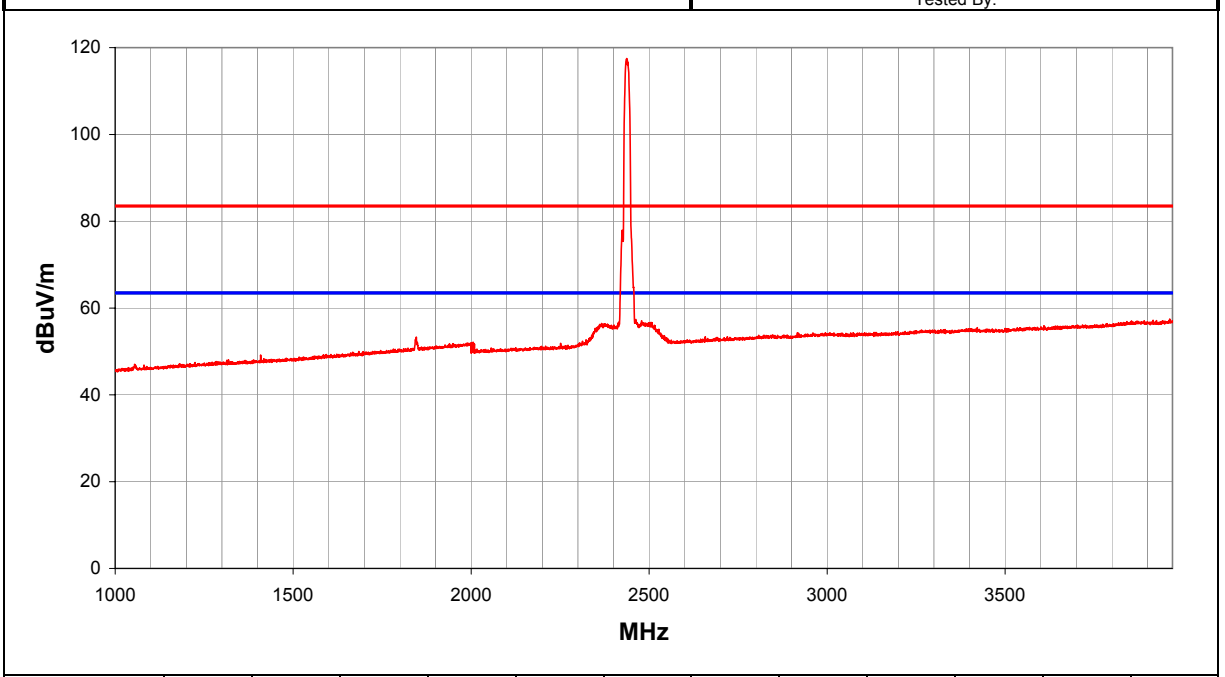
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	90

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)
2437.078	84.4	0.0	0.0	30.5	2.6	0.0	V		0.0	117.5	83.5	34.0
2436.568	67.6	0.0	0.0	30.5	2.6	0.0	H		0.0	100.7	83.5	17.2
2424.328	44.9	0.0	0.0	30.5	2.6	0.0	V		0.0	77.9	83.5	-5.6
2424.838	28.3	0.0	0.0	30.5	2.6	0.0	H		0.0	61.3	83.5	-22.2
3980.429	19.2	0.0	0.0	34.4	3.9	0.0	V		0.0	57.5	83.5	-26.0
3962.579	19.2	0.0	0.0	34.4	3.9	0.0	H		0.0	57.5	83.5	-26.0
1845.787	22.6	0.0	0.0	28.3	2.4	0.0	V		0.0	53.3	83.5	-30.2
2005.420	20.5	0.0	0.0	29.1	2.5	0.0	H		0.0	52.1	83.5	-31.4
2001.340	20.4	0.0	0.0	29.1	2.5	0.0	H		0.0	52.0	83.5	-31.5
1989.099	20.4	0.0	0.0	29.0	2.5	0.0	H		0.0	51.9	83.5	-31.6
2005.420	20.3	0.0	0.0	29.1	2.5	0.0	V		0.0	51.9	83.5	-31.6
2003.890	20.3	0.0	0.0	29.1	2.5	0.0	V		0.0	51.9	83.5	-31.6
2003.380	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
2000.830	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
2008.990	20.0	0.0	0.0	29.1	2.5	0.0	V		0.0	51.6	83.5	-31.9

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.05 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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

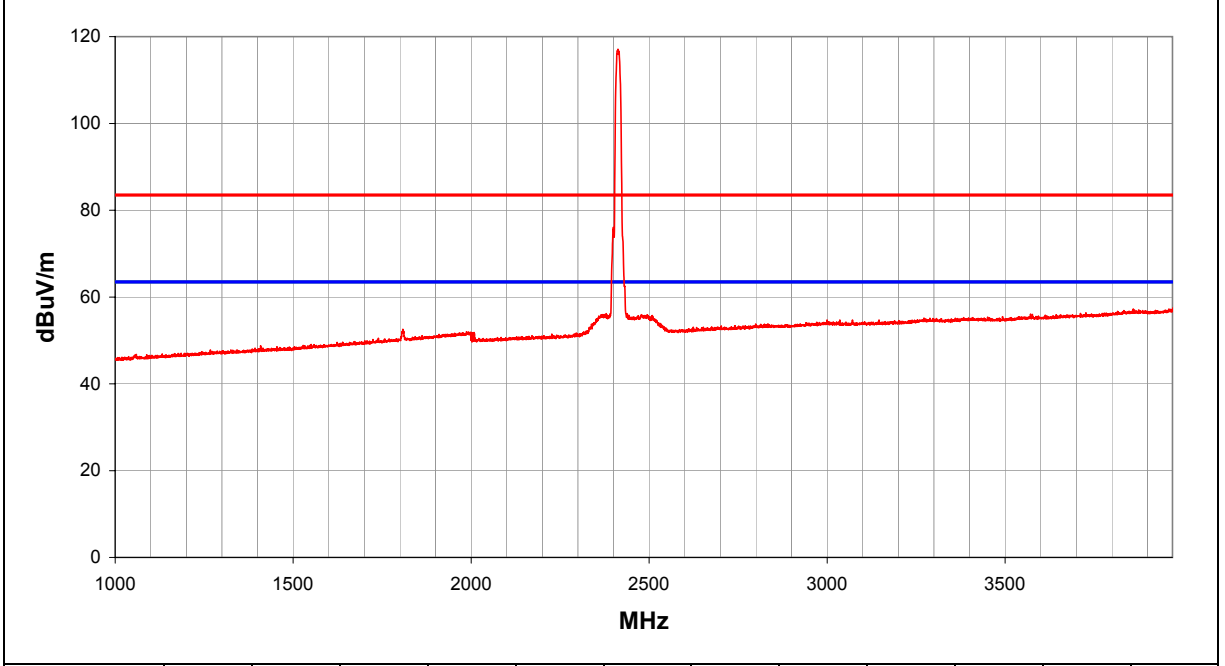
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	91

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)
2412.088	84.1	0.0	0.0	30.4	2.6	0.0	V		0.0	117.1	83.5	33.6
2413.108	67.2	0.0	0.0	30.4	2.6	0.0	H		0.0	100.2	83.5	16.7
2399.338	43.1	0.0	0.0	30.4	2.6	0.0	V		0.0	76.1	83.5	-7.4
3992.159	19.4	0.0	0.0	34.5	3.9	0.0	V		0.0	57.8	83.5	-25.7
3971.759	19.2	0.0	0.0	34.4	3.9	0.0	H		0.0	57.5	83.5	-26.0
1808.046	22.1	0.0	0.0	28.1	2.3	0.0	V		0.0	52.6	83.5	-30.9
1987.059	20.5	0.0	0.0	29.0	2.5	0.0	V		0.0	52.0	83.5	-31.5
1999.300	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	V		0.0	51.8	83.5	-31.7
2006.950	20.1	0.0	0.0	29.1	2.5	0.0	H		0.0	51.7	83.5	-31.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.03 07/10/2002

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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

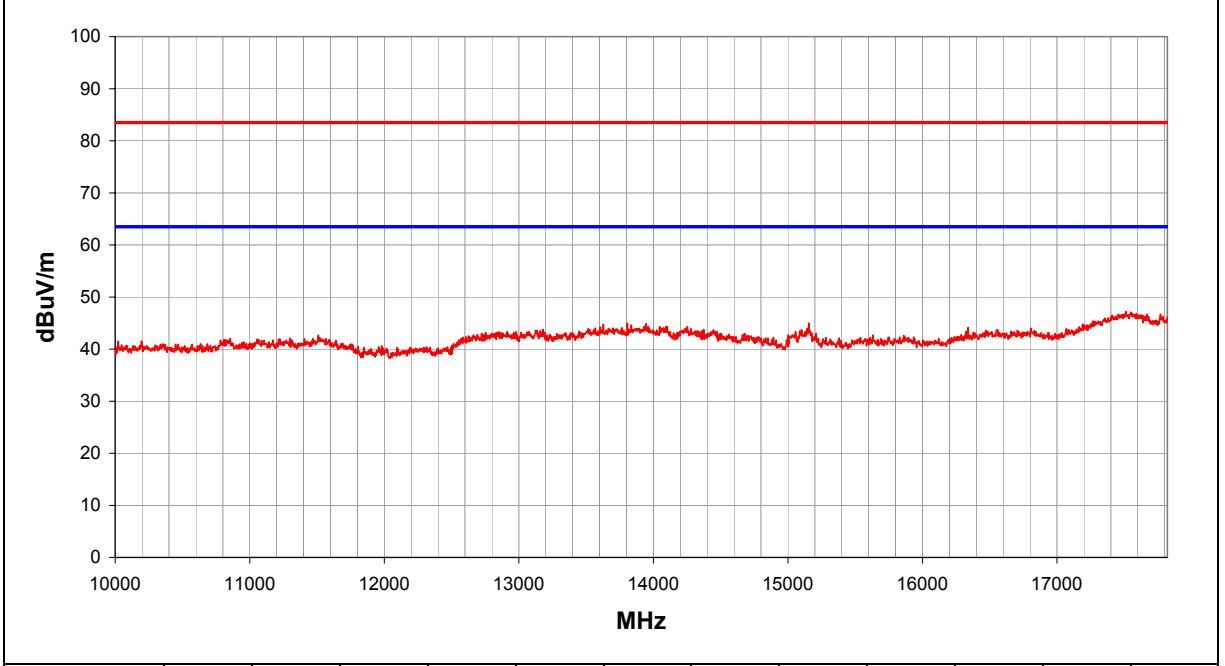
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	Test Distance (m)	Run #
Evaluation	1	92

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)
17514.170	31.7	34.7	0.0	44.2	6.0	0.0	V		0.0	47.3	83.5	-36.2
17891.680	30.9	34.8	0.0	44.7	6.1	0.0	V		0.0	46.8	83.5	-36.7
17544.130	31.2	34.7	0.0	44.3	6.0	0.0	H		0.0	46.8	83.5	-36.7
17882.690	30.7	34.8	0.0	44.7	6.1	0.0	H		0.0	46.6	83.5	-36.9
13806.570	33.4	34.6	0.0	41.2	5.0	0.0	V		0.0	45.0	83.5	-38.5
15155.850	34.7	34.2	0.0	39.1	5.3	0.0	V		0.0	45.0	83.5	-38.5
13947.010	33.0	34.5	0.0	41.4	5.0	0.0	V		0.0	44.9	83.5	-38.6
13628.520	33.6	34.7	0.0	40.9	4.9	0.0	V		0.0	44.8	83.5	-38.7
13836.660	33.0	34.6	0.0	41.2	5.0	0.0	V		0.0	44.6	83.5	-38.9
14252.960	32.7	34.4	0.0	41.0	5.1	0.0	V		0.0	44.3	83.5	-39.2
13962.050	32.4	34.5	0.0	41.4	5.0	0.0	H		0.0	44.3	83.5	-39.2
16339.690	33.5	34.1	0.0	39.0	5.7	0.0	H		0.0	44.2	83.5	-39.3
16804.100	32.3	34.3	0.0	40.2	5.8	0.0	V		0.0	44.0	83.5	-39.5
13179.620	33.7	34.9	0.0	40.1	4.8	0.0	H		0.0	43.8	83.5	-39.7
16558.420	32.3	34.2	0.0	39.8	5.8	0.0	H		0.0	43.7	83.5	-39.8
14245.440	32.0	34.4	0.0	41.0	5.1	0.0	H		0.0	43.7	83.5	-39.8
13134.480	33.6	34.9	0.0	40.0	4.8	0.0	V		0.0	43.6	83.5	-39.9
15155.850	33.3	34.2	0.0	39.1	5.3	0.0	H		0.0	43.6	83.5	-39.9
15056.940	32.8	34.2	0.0	39.4	5.3	0.0	V		0.0	43.3	83.5	-40.2
12981.500	33.7	35.0	0.0	39.8	4.8	0.0	V		0.0	43.3	83.5	-40.2
14426.000	31.9	34.4	0.0	40.6	5.1	0.0	H		0.0	43.3	83.5	-40.2

NORTHWEST **EMC** **RADIATED EMISSIONS DATA SHEET** REV d#2.03 07/10/2002

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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

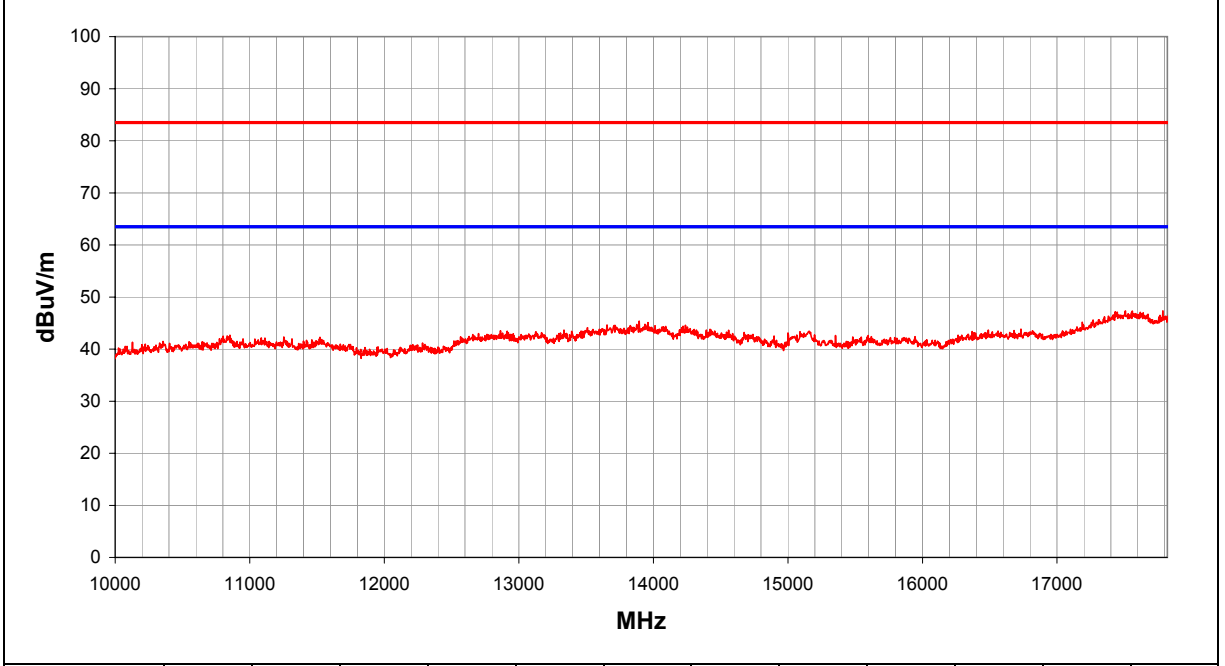
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	Test Distance (m)	Run #
Evaluation	1	93

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)
17508.180	31.8	34.7	0.0	44.2	6.0	0.0	H		0.0	47.4	83.5	-36.1
17786.820	31.5	34.8	0.0	44.5	6.1	0.0	H		0.0	47.3	83.5	-36.2
17559.120	31.7	34.7	0.0	44.3	6.0	0.0	V		0.0	47.3	83.5	-36.2
17828.760	30.7	34.8	0.0	44.6	6.1	0.0	V		0.0	46.5	83.5	-37.0
13894.340	33.6	34.5	0.0	41.3	5.0	0.0	H		0.0	45.4	83.5	-38.1
13959.550	33.2	34.5	0.0	41.4	5.0	0.0	V		0.0	45.1	83.5	-38.4
13656.100	33.4	34.7	0.0	40.9	4.9	0.0	H		0.0	44.6	83.5	-38.9
14237.910	32.9	34.4	0.0	41.0	5.1	0.0	H		0.0	44.6	83.5	-38.9
14237.910	32.6	34.4	0.0	41.0	5.1	0.0	V		0.0	44.3	83.5	-39.2
16732.190	32.2	34.3	0.0	40.1	5.8	0.0	H		0.0	43.8	83.5	-39.7
14420.980	32.4	34.4	0.0	40.7	5.1	0.0	H		0.0	43.8	83.5	-39.7
13335.100	33.2	34.8	0.0	40.4	4.9	0.0	H		0.0	43.7	83.5	-39.8
12863.630	34.2	35.0	0.0	39.6	4.8	0.0	V		0.0	43.5	83.5	-40.0
12913.790	34.0	35.0	0.0	39.7	4.8	0.0	V		0.0	43.5	83.5	-40.0
15158.840	33.2	34.2	0.0	39.1	5.3	0.0	H		0.0	43.5	83.5	-40.0
16816.080	31.7	34.3	0.0	40.2	5.8	0.0	V		0.0	43.4	83.5	-40.1
13126.950	33.4	34.9	0.0	40.0	4.8	0.0	H		0.0	43.4	83.5	-40.1
15158.840	33.1	34.2	0.0	39.1	5.3	0.0	V		0.0	43.4	83.5	-40.1
14674.270	32.1	34.3	0.0	40.2	5.2	0.0	H		0.0	43.2	83.5	-40.3
12921.310	33.7	35.0	0.0	39.7	4.8	0.0	H		0.0	43.2	83.5	-40.3
13124.450	33.2	34.9	0.0	40.0	4.8	0.0	V		0.0	43.2	83.5	-40.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.03 07/10/2002

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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

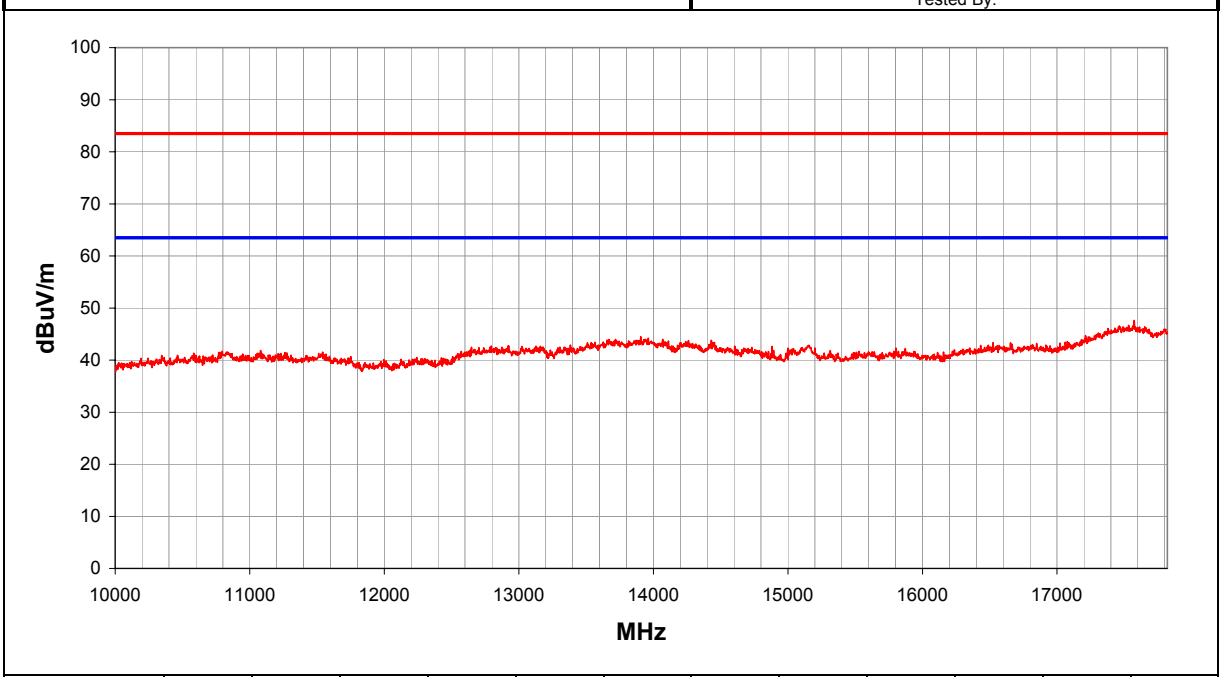
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	Test Distance (m)	Run #
Evaluation	1	94

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)
17574.100	32.0	34.7	0.0	44.3	6.0	0.0	V		0.0	47.6	83.5	-35.9
17574.100	31.0	34.7	0.0	44.3	6.0	0.0	H		0.0	46.6	83.5	-36.9
17906.660	30.5	34.9	0.0	44.7	6.1	0.0	H		0.0	46.4	83.5	-37.1
17891.680	30.3	34.8	0.0	44.7	6.1	0.0	V		0.0	46.2	83.5	-37.3
13906.880	32.7	34.5	0.0	41.4	5.0	0.0	H		0.0	44.5	83.5	-39.0
14069.890	32.1	34.5	0.0	41.4	5.0	0.0	V		0.0	44.0	83.5	-39.5
13941.990	32.1	34.5	0.0	41.4	5.0	0.0	V		0.0	44.0	83.5	-39.5
13718.800	32.6	34.6	0.0	41.1	4.9	0.0	V		0.0	44.0	83.5	-39.5
14431.020	32.4	34.4	0.0	40.6	5.1	0.0	V		0.0	43.8	83.5	-39.7
14260.480	32.1	34.4	0.0	41.0	5.1	0.0	H		0.0	43.7	83.5	-39.8
14257.980	31.8	34.4	0.0	41.0	5.1	0.0	V		0.0	43.4	83.5	-40.1
14453.590	32.0	34.4	0.0	40.6	5.1	0.0	H		0.0	43.4	83.5	-40.1
16525.460	32.0	34.2	0.0	39.7	5.8	0.0	H		0.0	43.3	83.5	-40.2
16654.290	31.8	34.2	0.0	39.9	5.8	0.0	H		0.0	43.3	83.5	-40.2
13382.750	32.3	34.8	0.0	40.5	4.9	0.0	V		0.0	42.9	83.5	-40.6
15155.850	32.6	34.2	0.0	39.1	5.3	0.0	H		0.0	42.9	83.5	-40.6
12923.820	33.3	35.0	0.0	39.7	4.8	0.0	V		0.0	42.8	83.5	-40.7
15146.860	32.4	34.2	0.0	39.1	5.3	0.0	V		0.0	42.7	83.5	-40.8
13126.950	32.7	34.9	0.0	40.0	4.8	0.0	H		0.0	42.7	83.5	-40.8
14882.420	31.8	34.2	0.0	39.8	5.3	0.0	V		0.0	42.6	83.5	-40.9
13159.550	32.6	34.9	0.0	40.1	4.8	0.0	V		0.0	42.6	83.5	-40.9



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#2.03 07/10/2002

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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

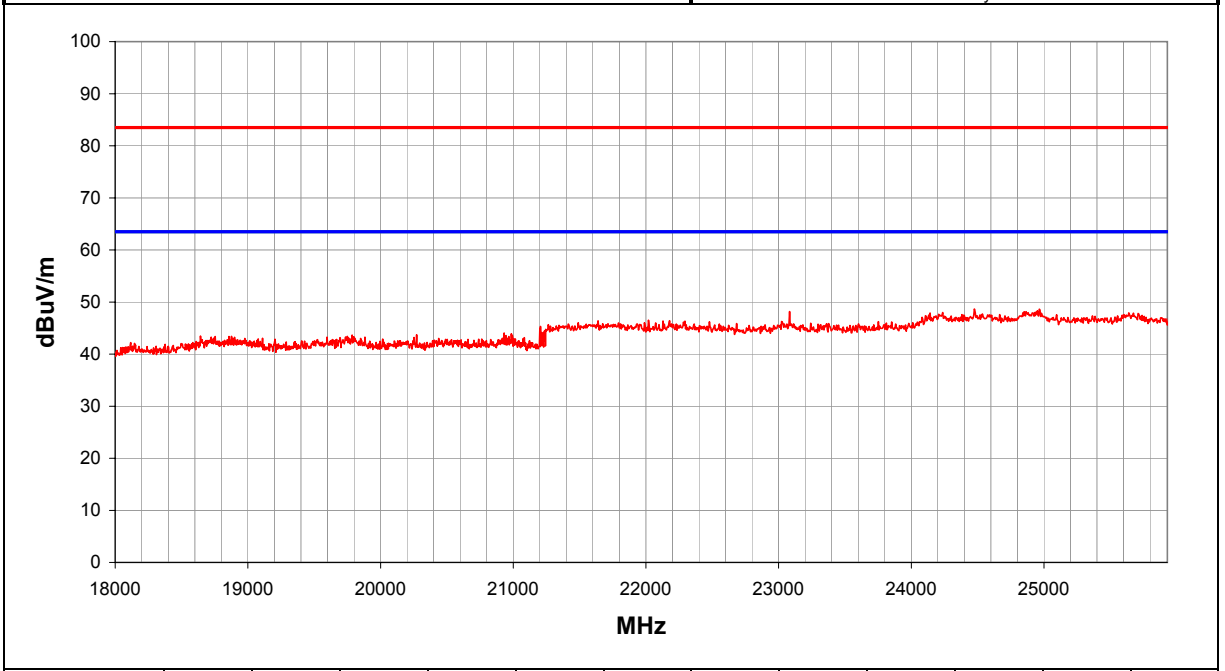
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	95

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)
24476.160	37.4	36.4	0.0	40.4	7.2	0.0	H		0.0	48.7	83.5	-34.8
24965.580	37.0	36.3	0.0	40.4	7.5	0.0	V		0.0	48.6	83.5	-34.9
24965.580	36.9	36.3	0.0	40.4	7.5	0.0	H		0.0	48.5	83.5	-35.0
23082.790	37.5	36.1	0.0	40.4	6.4	0.0	V		0.0	48.2	83.5	-35.3
26099.250	35.3	35.5	0.0	40.5	7.7	0.0	V		0.0	48.0	83.5	-35.5
24236.440	36.9	36.4	0.0	40.4	7.0	0.0	H		0.0	48.0	83.5	-35.5
25639.790	35.6	35.8	0.0	40.5	7.6	0.0	H		0.0	47.9	83.5	-35.6
24141.550	36.9	36.4	0.0	40.4	7.0	0.0	V		0.0	47.9	83.5	-35.6
26104.250	34.9	35.5	0.0	40.5	7.7	0.0	H		0.0	47.6	83.5	-35.9
25714.700	35.2	35.7	0.0	40.5	7.6	0.0	V		0.0	47.6	83.5	-35.9
22019.040	35.2	36.0	0.0	40.3	7.0	0.0	H		0.0	46.5	83.5	-37.0
22178.850	35.2	36.0	0.0	40.3	6.9	0.0	H		0.0	46.4	83.5	-37.1
21639.480	35.3	36.1	0.0	40.3	6.9	0.0	H		0.0	46.4	83.5	-37.1
22128.910	35.1	36.0	0.0	40.3	6.9	0.0	H		0.0	46.3	83.5	-37.2
23752.010	35.4	36.3	0.0	40.4	6.8	0.0	H		0.0	46.2	83.5	-37.3
22478.500	35.2	36.0	0.0	40.3	6.7	0.0	H		0.0	46.2	83.5	-37.3
21639.480	35.1	36.1	0.0	40.3	6.9	0.0	V		0.0	46.2	83.5	-37.3
22283.730	35.0	36.0	0.0	40.3	6.8	0.0	V		0.0	46.1	83.5	-37.4
23242.600	35.2	36.2	0.0	40.4	6.5	0.0	H		0.0	45.9	83.5	-37.6
22683.260	35.0	36.1	0.0	40.4	6.6	0.0	V		0.0	45.9	83.5	-37.6
23362.460	35.1	36.2	0.0	40.4	6.6	0.0	H		0.0	45.9	83.5	-37.6

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

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	Job Site: EV01
Tested by: Greg Kiemel	Power: 120 V, 60 Hz	

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

**EUT OPERATING MODES**

Transmitting radio b

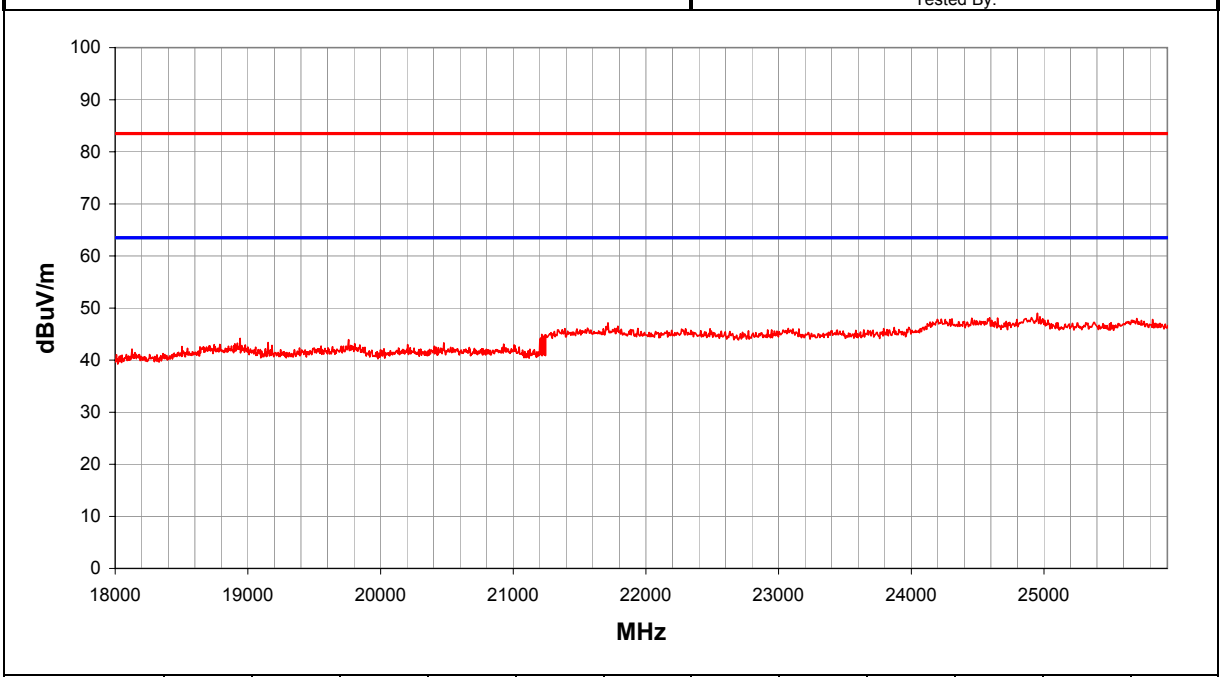
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	96

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)
24950.600	37.4	36.3	0.0	40.4	7.5	0.0	H		0.0	49.0	83.5	-34.5
24970.580	36.7	36.3	0.0	40.4	7.5	0.0	V		0.0	48.3	83.5	-35.2
24591.020	36.8	36.3	0.0	40.4	7.3	0.0	H		0.0	48.1	83.5	-35.4
24650.950	36.7	36.3	0.0	40.4	7.3	0.0	V		0.0	48.1	83.5	-35.4
26044.320	35.3	35.5	0.0	40.5	7.7	0.0	H		0.0	48.0	83.5	-35.5
25699.720	35.6	35.7	0.0	40.5	7.6	0.0	H		0.0	48.0	83.5	-35.5
24306.360	36.8	36.4	0.0	40.4	7.1	0.0	H		0.0	47.9	83.5	-35.6
24226.450	36.8	36.4	0.0	40.4	7.0	0.0	V		0.0	47.9	83.5	-35.6
26099.250	35.1	35.5	0.0	40.5	7.7	0.0	V		0.0	47.8	83.5	-35.7
24291.370	36.7	36.4	0.0	40.4	7.1	0.0	H		0.0	47.8	83.5	-35.7
25669.760	35.3	35.8	0.0	40.5	7.6	0.0	V		0.0	47.7	83.5	-35.8
21714.400	36.0	36.1	0.0	40.3	6.9	0.0	H		0.0	47.2	83.5	-36.3
21559.580	35.1	36.2	0.0	40.3	6.9	0.0	V		0.0	46.2	83.5	-37.3
23072.800	35.4	36.1	0.0	40.4	6.4	0.0	H		0.0	46.1	83.5	-37.4
23152.710	35.3	36.1	0.0	40.4	6.5	0.0	V		0.0	46.0	83.5	-37.5
21214.980	34.1	36.3	0.0	40.3	6.8	0.0	H		0.0	44.9	83.5	-38.6
21239.950	34.0	36.3	0.0	40.3	6.8	0.0	H		0.0	44.9	83.5	-38.6
21224.970	33.8	36.3	0.0	40.3	6.8	0.0	V		0.0	44.6	83.5	-38.9
21224.970	33.4	36.3	0.0	40.3	6.8	0.0	H		0.0	44.2	83.5	-39.3
21204.990	33.4	36.3	0.0	40.3	6.8	0.0	V		0.0	44.2	83.5	-39.3
18941.370	35.1	37.4	0.0	40.2	6.3	0.0	V		0.0	44.2	83.5	-39.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.03 07/10/2002

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

<b>TEST SPECIFICATIONS</b>	
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, flat panel antenna

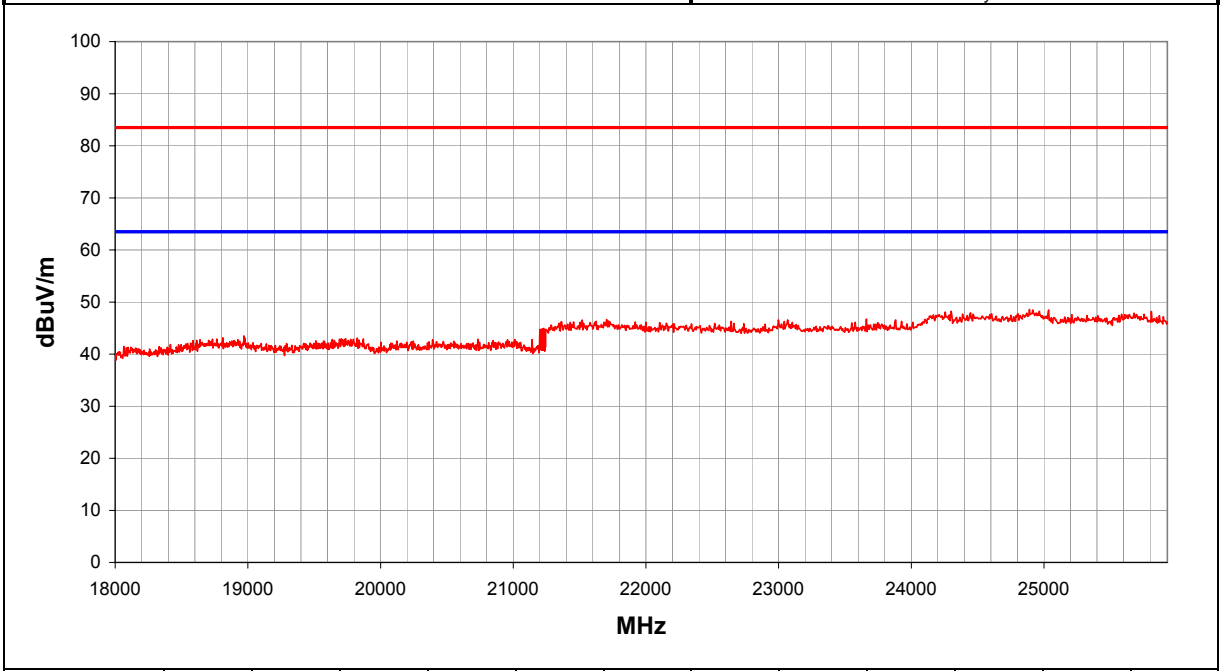
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	97

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)
24890.670	37.0	36.3	0.0	40.4	7.4	0.0	V		0.0	48.6	83.5	-34.9
25035.500	36.8	36.3	0.0	40.5	7.5	0.0	H		0.0	48.5	83.5	-35.0
24915.640	36.9	36.3	0.0	40.4	7.4	0.0	H		0.0	48.5	83.5	-35.0
24301.360	37.1	36.4	0.0	40.4	7.1	0.0	V		0.0	48.2	83.5	-35.3
25809.590	35.7	35.7	0.0	40.5	7.7	0.0	V		0.0	48.2	83.5	-35.3
24256.410	37.0	36.4	0.0	40.4	7.1	0.0	H		0.0	48.1	83.5	-35.4
24446.190	36.7	36.4	0.0	40.4	7.2	0.0	H		0.0	47.9	83.5	-35.6
24606.000	36.4	36.3	0.0	40.4	7.3	0.0	V		0.0	47.8	83.5	-35.7
26079.280	35.0	35.5	0.0	40.5	7.7	0.0	V		0.0	47.7	83.5	-35.8
25210.290	35.7	36.1	0.0	40.5	7.5	0.0	V		0.0	47.6	83.5	-35.9
25624.810	35.2	35.8	0.0	40.5	7.6	0.0	H		0.0	47.5	83.5	-36.0
26159.180	34.7	35.5	0.0	40.5	7.7	0.0	H		0.0	47.4	83.5	-36.1
23662.110	35.9	36.3	0.0	40.4	6.7	0.0	V		0.0	46.7	83.5	-36.8
21704.410	35.5	36.1	0.0	40.3	6.9	0.0	V		0.0	46.6	83.5	-36.9
23067.810	35.9	36.1	0.0	40.4	6.4	0.0	H		0.0	46.6	83.5	-36.9
23881.850	35.7	36.4	0.0	40.4	6.8	0.0	V		0.0	46.6	83.5	-36.9
22997.890	35.9	36.1	0.0	40.4	6.4	0.0	V		0.0	46.6	83.5	-36.9
21519.630	35.5	36.2	0.0	40.3	6.9	0.0	V		0.0	46.5	83.5	-37.0
22643.310	35.4	36.1	0.0	40.4	6.6	0.0	H		0.0	46.3	83.5	-37.2
23926.800	35.4	36.4	0.0	40.4	6.9	0.0	V		0.0	46.3	83.5	-37.2
21364.810	35.3	36.3	0.0	40.3	6.9	0.0	H		0.0	46.2	83.5	-37.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042	
Serial Number:		Date:	10/07/02
Customer:	INTERMEC Corporation	Temperature:	75F
Attendees:	None	Humidity:	43%
Cust. Ref. No.:		Barometric Pressure:	30.3
Tested by:	Rod Peloquin	Power:	DC power on ENet
		Job Site:	EV01

<b>TEST SPECIFICATIONS</b>	
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**

Flat panel antennas, high channel

**EUT OPERATING MODES**

Transmitting on both radios

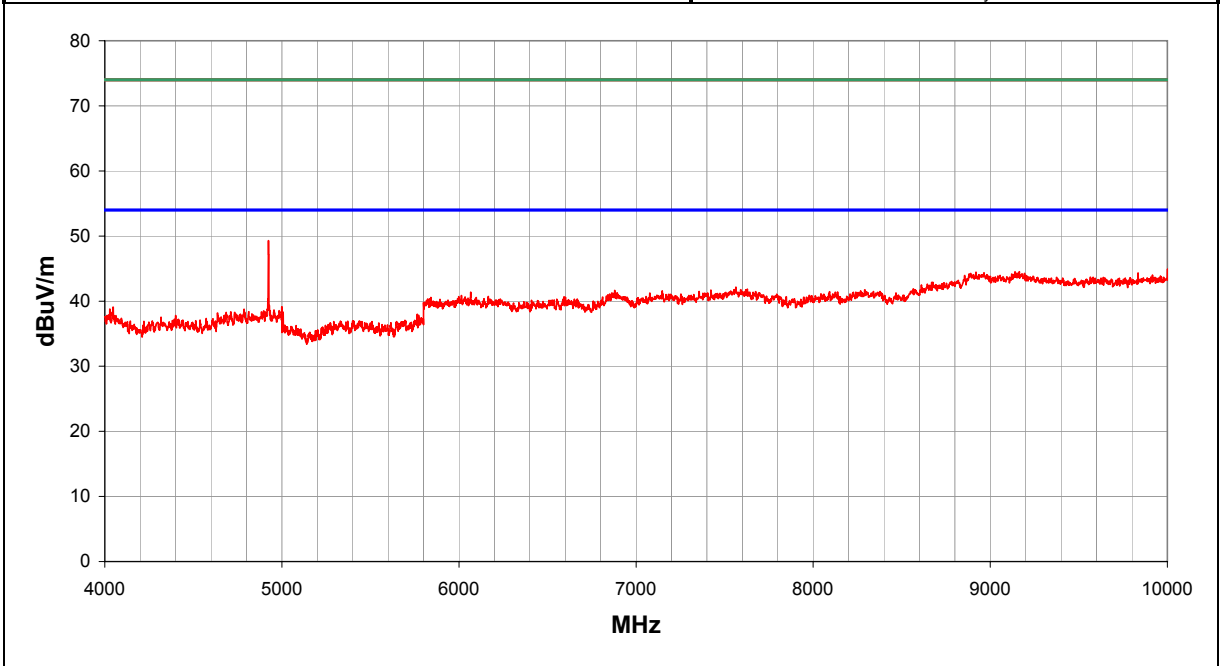
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
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)
4923.959	41.9	31.9	0.0	34.9	4.5	0.0	H		0.0	49.3	74.0	-24.7
10000.710	30.1	30.9	0.0	38.9	6.8	0.0	V		0.0	44.9	74.0	-29.1
9164.297	29.3	30.9	0.0	39.7	6.5	0.0	H		0.0	44.5	74.0	-29.5
9140.141	29.2	30.9	0.0	39.8	6.5	0.0	V		0.0	44.5	74.0	-29.5
9834.633	29.7	30.9	0.0	38.8	6.7	0.0	H		0.0	44.3	74.0	-29.7
4923.959	36.7	31.9	0.0	34.9	4.5	0.0	V		0.0	44.1	74.0	-29.9
7564.652	31.3	32.9	0.0	37.8	6.0	0.0	V		0.0	42.2	74.0	-31.8
7619.004	30.9	32.9	0.0	37.7	6.0	0.0	H		0.0	41.8	74.0	-32.2
8292.359	30.0	32.2	0.0	37.7	6.2	0.0	H		0.0	41.7	74.0	-32.3
6879.285	32.0	33.0	0.0	36.9	5.8	0.0	H		0.0	41.7	74.0	-32.3
7147.957	31.4	33.0	0.0	37.4	5.8	0.0	H		0.0	41.6	74.0	-32.4
8376.906	29.5	32.0	0.0	37.8	6.2	0.0	V		0.0	41.5	74.0	-32.5
8093.070	30.3	32.5	0.0	37.6	6.1	0.0	V		0.0	41.5	74.0	-32.5
6879.285	31.8	33.0	0.0	36.9	5.8	0.0	V		0.0	41.5	74.0	-32.5
8138.363	30.1	32.5	0.0	37.6	6.1	0.0	H		0.0	41.4	74.0	-32.6
6066.191	31.8	32.5	0.0	36.7	5.4	0.0	H		0.0	41.4	74.0	-32.6
6014.163	31.2	32.5	0.0	36.8	5.4	0.0	V		0.0	40.9	74.0	-33.1
6593.734	31.6	32.9	0.0	36.3	5.6	0.0	V		0.0	40.7	74.0	-33.3
6600.994	31.5	32.9	0.0	36.3	5.6	0.0	H		0.0	40.6	74.0	-33.4
5000.701	31.4	31.9	0.0	35.1	4.5	0.0	V		0.0	39.1	74.0	-34.9

**EMC RADIATED EMISSIONS DATA SHEET**

REV d3.01  
09/20/2002

EUT: MPC3A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75F
Attendees: None		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Rod Peloquin	Power: DC power on ENet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Flat panel antennas, mid channel

**EUT OPERATING MODES**

Transmitting on both radios

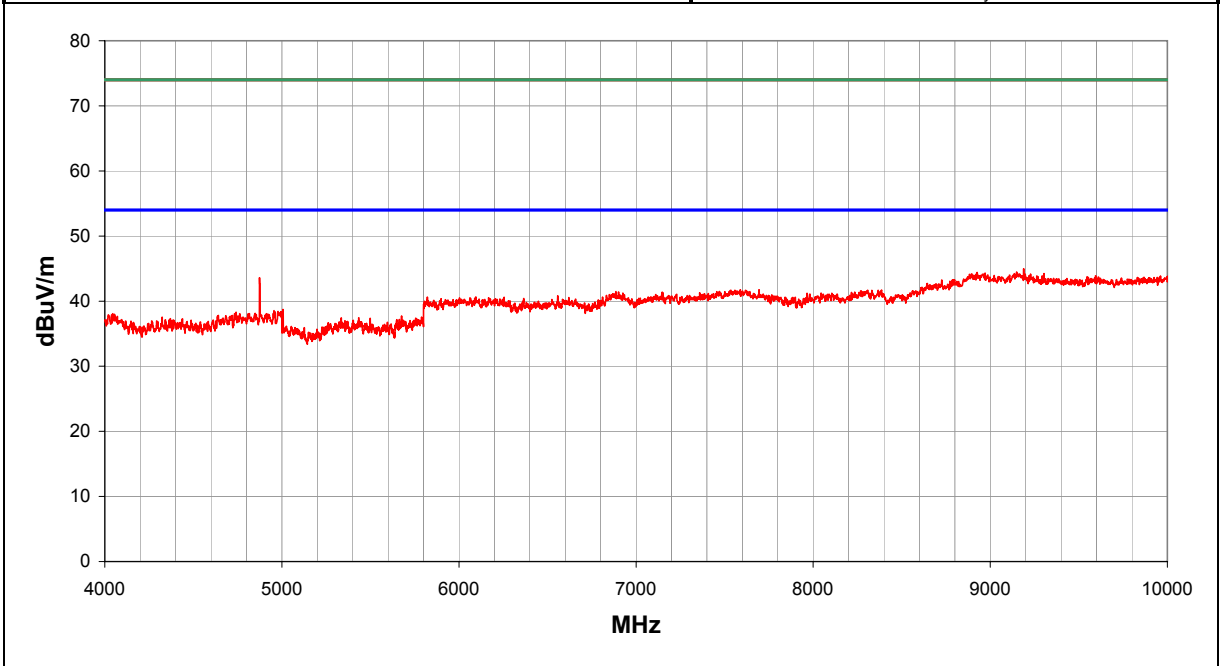
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
9188.453	29.8	30.9	0.0	39.6	6.5	0.0	V		0.0	45.0	74.0	-29.0
9149.199	29.2	30.9	0.0	39.7	6.5	0.0	H		0.0	44.5	74.0	-29.5
9596.090	29.5	30.9	0.0	38.7	6.6	0.0	V		0.0	43.9	74.0	-30.1
4873.471	36.4	32.0	0.0	34.7	4.4	0.0	H		0.0	43.6	74.0	-30.4
7694.492	30.9	32.8	0.0	37.7	6.0	0.0	H		0.0	41.8	74.0	-32.2
7588.809	30.9	32.9	0.0	37.7	6.0	0.0	V		0.0	41.8	74.0	-32.2
8385.965	29.7	32.0	0.0	37.8	6.2	0.0	V		0.0	41.7	74.0	-32.3
8367.848	29.7	32.0	0.0	37.8	6.2	0.0	H		0.0	41.7	74.0	-32.3
6886.545	31.8	33.0	0.0	37.0	5.8	0.0	H		0.0	41.5	74.0	-32.5
7147.957	31.2	33.0	0.0	37.4	5.8	0.0	V		0.0	41.4	74.0	-32.6
6876.865	31.4	33.0	0.0	36.9	5.8	0.0	V		0.0	41.1	74.0	-32.9
6557.436	31.8	32.8	0.0	36.2	5.6	0.0	H		0.0	40.8	74.0	-33.2
6095.230	31.1	32.6	0.0	36.7	5.4	0.0	H		0.0	40.6	74.0	-33.4
5821.779	31.3	32.4	0.0	36.5	5.2	0.0	V		0.0	40.6	74.0	-33.4
6365.052	31.3	32.7	0.0	36.3	5.5	0.0	V		0.0	40.4	74.0	-33.6
6659.072	31.1	32.9	0.0	36.4	5.7	0.0	V		0.0	40.3	74.0	-33.7
5006.760	31.0	31.9	0.0	35.1	4.5	0.0	V		0.0	38.7	74.0	-35.3
5005.750	31.0	31.9	0.0	35.1	4.5	0.0	V		0.0	38.7	74.0	-35.3
4956.271	31.0	31.9	0.0	35.0	4.5	0.0	V		0.0	38.5	74.0	-35.5
4978.486	30.8	31.9	0.0	35.0	4.5	0.0	V		0.0	38.4	74.0	-35.6

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75F
Attendees: None		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Rod Peloquin	Power: DC power on ENet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Flat panel antennas, low channel

**EUT OPERATING MODES**

Transmitting on both radios

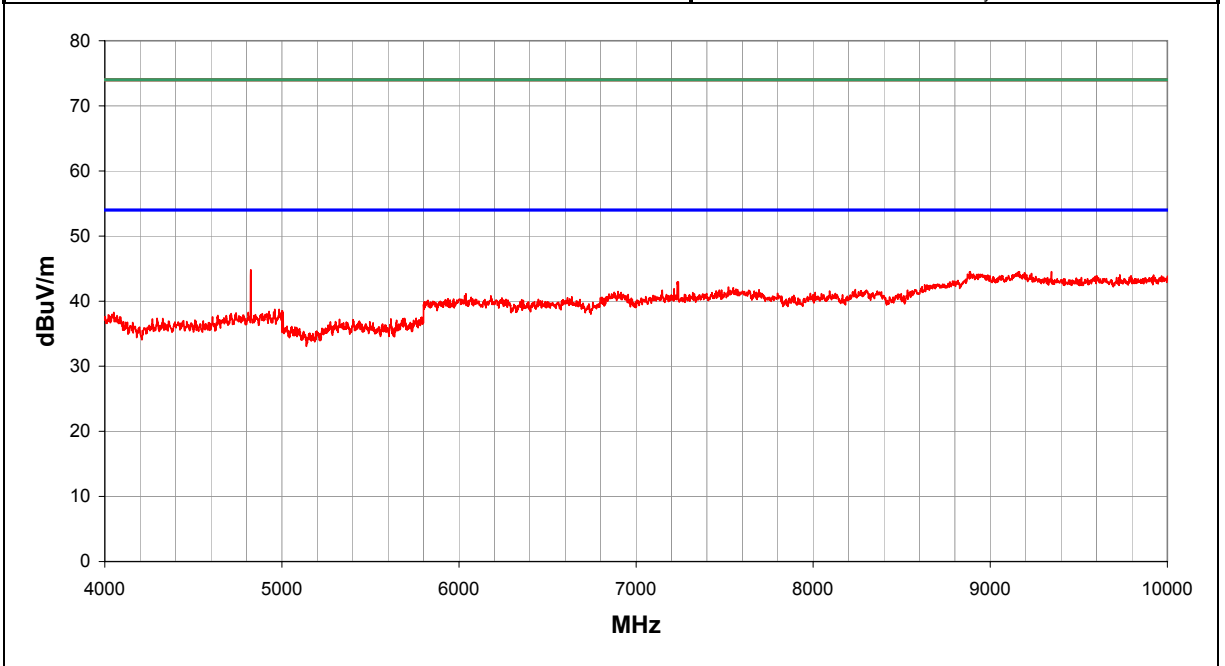
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
4825.002	37.8	32.0	0.0	34.6	4.4	0.0	H		0.0	44.8	74.0	-29.2
9164.297	29.3	30.9	0.0	39.7	6.5	0.0	V		0.0	44.5	74.0	-29.5
8886.500	29.6	31.1	0.0	39.7	6.4	0.0	V		0.0	44.5	74.0	-29.5
9345.469	29.8	30.9	0.0	39.1	6.5	0.0	V		0.0	44.5	74.0	-29.5
8883.480	29.6	31.1	0.0	39.7	6.4	0.0	H		0.0	44.5	74.0	-29.5
7238.543	32.6	33.0	0.0	37.5	5.9	0.0	H		0.0	43.0	74.0	-31.0
7522.379	31.3	32.9	0.0	37.8	6.0	0.0	H		0.0	42.2	74.0	-31.8
7549.555	31.2	32.9	0.0	37.8	6.0	0.0	V		0.0	42.1	74.0	-31.9
7214.387	31.6	33.0	0.0	37.5	5.9	0.0	V		0.0	41.9	74.0	-32.1
8238.008	30.2	32.3	0.0	37.7	6.2	0.0	H		0.0	41.8	74.0	-32.2
7147.957	31.5	33.0	0.0	37.4	5.8	0.0	V		0.0	41.7	74.0	-32.3
8238.008	30.0	32.3	0.0	37.7	6.2	0.0	V		0.0	41.6	74.0	-32.4
8093.070	30.4	32.5	0.0	37.6	6.1	0.0	V		0.0	41.6	74.0	-32.4
6898.645	31.8	33.0	0.0	37.0	5.8	0.0	V		0.0	41.5	74.0	-32.5
6881.705	31.5	33.0	0.0	36.9	5.8	0.0	H		0.0	41.2	74.0	-32.8
6039.572	31.5	32.5	0.0	36.7	5.4	0.0	H		0.0	41.1	74.0	-32.9
6179.928	31.4	32.6	0.0	36.5	5.5	0.0	V		0.0	40.8	74.0	-33.2
6637.293	31.5	32.9	0.0	36.4	5.7	0.0	H		0.0	40.7	74.0	-33.3
6625.193	31.2	32.9	0.0	36.4	5.7	0.0	V		0.0	40.4	74.0	-33.6
6363.842	31.0	32.7	0.0	36.3	5.5	0.0	V		0.0	40.1	74.0	-33.9

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.01 09/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/07/02
Customer: INTERMEC Corporation	Temperature: 75F
Attendees: None	Humidity: 43%
Cust. Ref. No.:	Barometric Pressure 30.3
Tested by: Rod Peloquin	Power: DC power on ENet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Yagi antennas, low channel

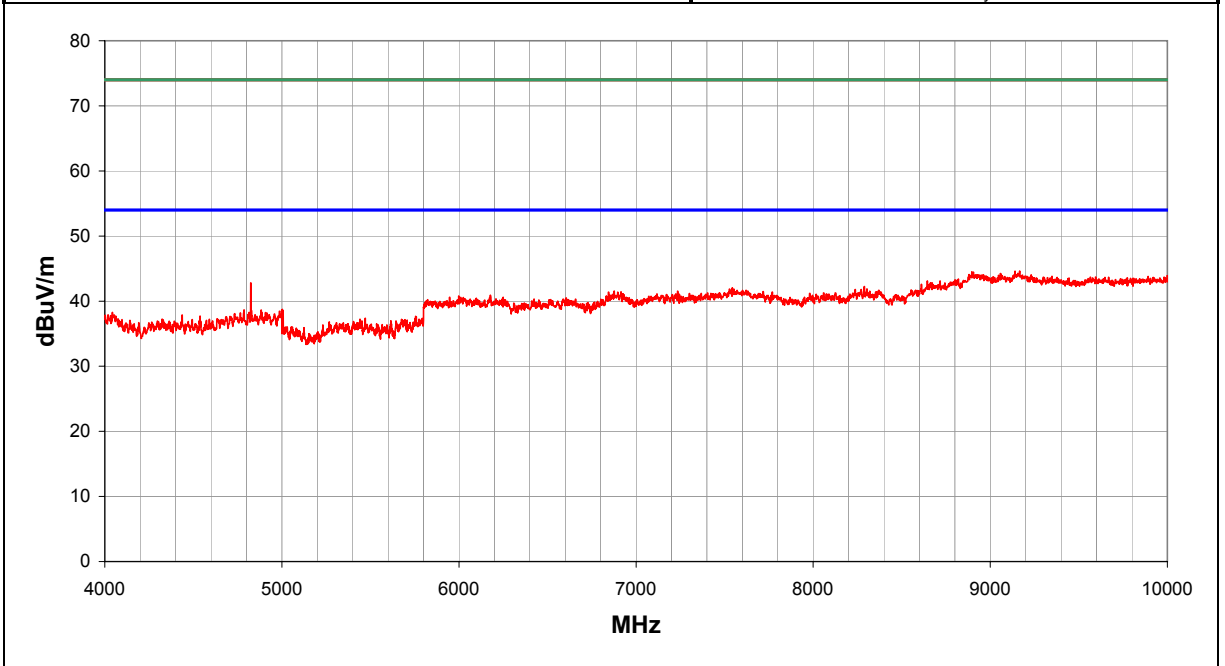
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
9165.807	29.4	30.9	0.0	39.7	6.5	0.0	H		0.0	44.6	74.0	-29.4
8895.559	29.5	31.1	0.0	39.7	6.4	0.0	H		0.0	44.5	74.0	-29.5
8898.578	29.2	31.1	0.0	39.7	6.4	0.0	V		0.0	44.2	74.0	-29.8
10006.750	29.2	30.9	0.0	38.9	6.8	0.0	V		0.0	44.0	74.0	-30.0
10006.750	29.1	30.9	0.0	38.9	6.8	0.0	H		0.0	43.9	74.0	-30.1
4825.002	35.8	32.0	0.0	34.6	4.4	0.0	V		0.0	42.8	74.0	-31.2
8289.340	30.5	32.2	0.0	37.7	6.2	0.0	H		0.0	42.2	74.0	-31.8
7543.516	31.2	32.9	0.0	37.8	6.0	0.0	V		0.0	42.1	74.0	-31.9
8304.438	30.1	32.2	0.0	37.7	6.2	0.0	V		0.0	41.9	74.0	-32.1
7552.574	31.0	32.9	0.0	37.8	6.0	0.0	H		0.0	41.9	74.0	-32.1
6876.865	31.9	33.0	0.0	36.9	5.8	0.0	V		0.0	41.6	74.0	-32.4
7235.523	31.2	33.0	0.0	37.5	5.9	0.0	V		0.0	41.5	74.0	-32.5
6915.584	31.7	33.0	0.0	37.0	5.8	0.0	H		0.0	41.4	74.0	-32.6
6177.508	31.5	32.6	0.0	36.6	5.5	0.0	H		0.0	40.9	74.0	-33.1
6177.508	31.4	32.6	0.0	36.6	5.5	0.0	V		0.0	40.8	74.0	-33.2
5998.434	31.1	32.5	0.0	36.8	5.4	0.0	V		0.0	40.8	74.0	-33.2
6605.834	31.4	32.9	0.0	36.3	5.6	0.0	V		0.0	40.5	74.0	-33.5
6424.340	31.3	32.8	0.0	36.2	5.6	0.0	H		0.0	40.3	74.0	-33.7
5002.721	31.0	31.9	0.0	35.1	4.5	0.0	V		0.0	38.7	74.0	-35.3
5001.711	31.0	31.9	0.0	35.1	4.5	0.0	V		0.0	38.7	74.0	-35.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75F
Attendees: None		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Rod Peloquin	Power: DC power on ENet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi antennas, mid channel

**EUT OPERATING MODES**

Transmitting on both radios

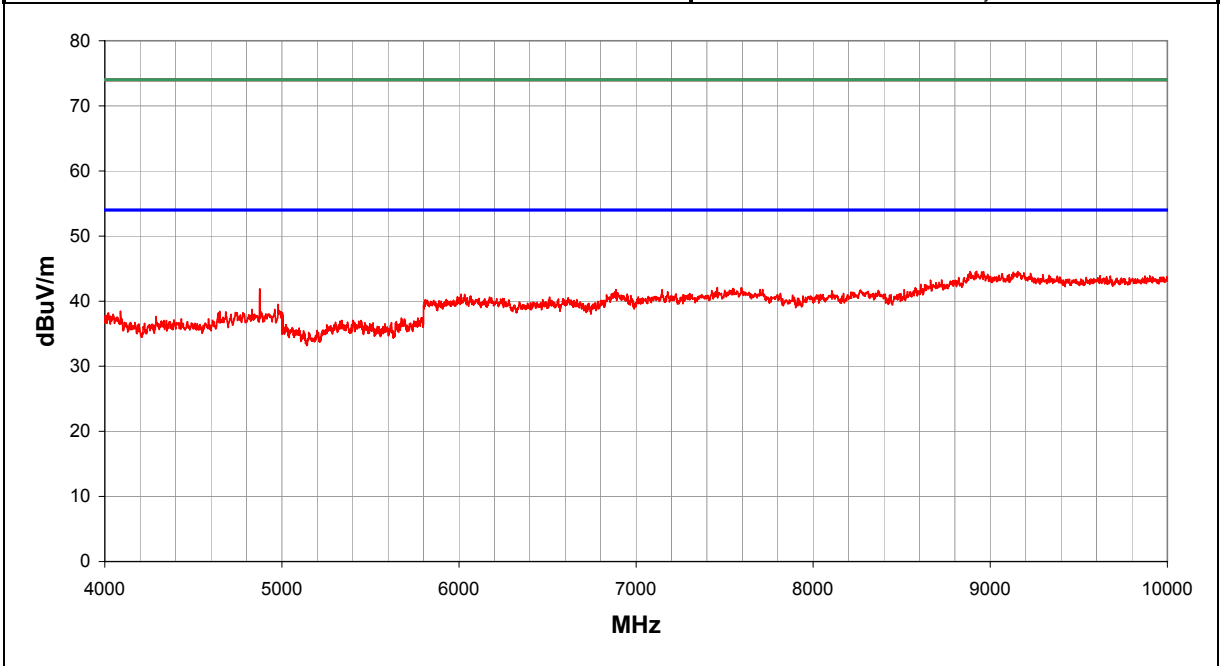
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
8922.734	29.4	31.0	0.0	39.8	6.4	0.0	V		0.0	44.6	74.0	-29.4
9155.238	29.3	30.9	0.0	39.7	6.5	0.0	H		0.0	44.6	74.0	-29.4
8952.930	29.1	31.0	0.0	40.0	6.4	0.0	H		0.0	44.5	74.0	-29.5
9901.063	29.2	30.9	0.0	38.8	6.8	0.0	V		0.0	43.9	74.0	-30.1
10006.750	29.1	30.9	0.0	38.9	6.8	0.0	H		0.0	43.9	74.0	-30.1
7458.969	31.3	32.9	0.0	37.8	5.9	0.0	V		0.0	42.1	74.0	-31.9
7594.848	31.2	32.9	0.0	37.7	6.0	0.0	H		0.0	42.1	74.0	-31.9
4875.490	34.7	32.0	0.0	34.8	4.4	0.0	H		0.0	41.9	74.0	-32.1
7147.957	31.6	33.0	0.0	37.4	5.8	0.0	V		0.0	41.8	74.0	-32.2
6886.545	32.1	33.0	0.0	37.0	5.8	0.0	V		0.0	41.8	74.0	-32.2
8268.203	30.0	32.2	0.0	37.7	6.2	0.0	H		0.0	41.7	74.0	-32.3
8265.184	30.0	32.2	0.0	37.7	6.2	0.0	V		0.0	41.7	74.0	-32.3
8105.148	30.4	32.5	0.0	37.6	6.1	0.0	V		0.0	41.6	74.0	-32.4
6881.705	31.8	33.0	0.0	36.9	5.8	0.0	H		0.0	41.5	74.0	-32.5
6011.743	31.4	32.5	0.0	36.8	5.4	0.0	H		0.0	41.1	74.0	-32.9
6032.313	31.4	32.5	0.0	36.8	5.4	0.0	V		0.0	41.0	74.0	-33.0
6172.668	31.2	32.6	0.0	36.6	5.5	0.0	H		0.0	40.6	74.0	-33.4
6511.457	31.7	32.8	0.0	36.1	5.6	0.0	V		0.0	40.6	74.0	-33.4
6616.724	31.4	32.9	0.0	36.4	5.6	0.0	H		0.0	40.5	74.0	-33.5
4873.471	33.3	32.0	0.0	34.7	4.4	0.0	V		0.0	40.5	74.0	-33.5



**EMC RADIATED EMISSIONS DATA SHEET**

REV d3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75F
Attendees: None		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Rod Peloquin	Power: DC power on ENet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi antennas, high channel

**EUT OPERATING MODES**

Transmitting on both radios

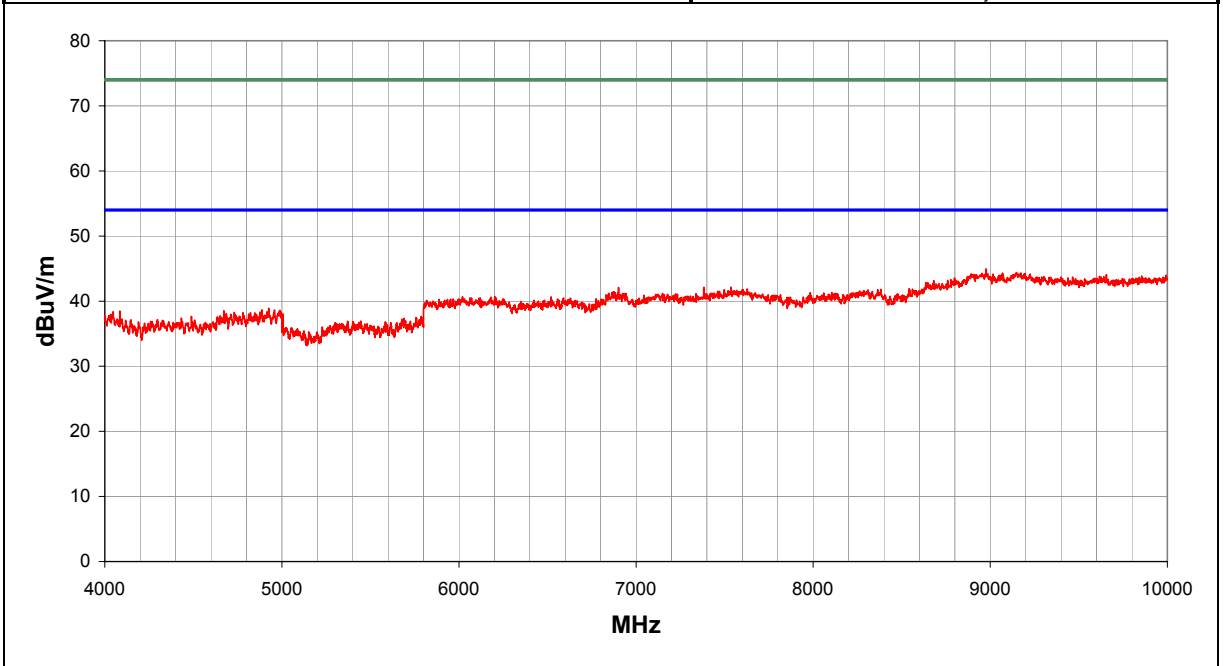
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8977.086	29.4	30.9	0.0	40.1	6.4	0.0	H		0.0	44.9	74.0	-29.1
9147.689	29.1	30.9	0.0	39.7	6.5	0.0	V		0.0	44.4	74.0	-29.6
9656.480	29.6	30.9	0.0	38.7	6.7	0.0	H		0.0	44.1	74.0	-29.9
9991.648	29.2	30.9	0.0	38.9	6.8	0.0	H		0.0	44.0	74.0	-30.0
7537.477	31.3	32.9	0.0	37.8	6.0	0.0	H		0.0	42.2	74.0	-31.8
7383.480	31.5	32.9	0.0	37.7	5.9	0.0	V		0.0	42.1	74.0	-31.9
6901.064	32.4	33.0	0.0	37.0	5.8	0.0	H		0.0	42.1	74.0	-31.9
8382.945	29.8	32.0	0.0	37.8	6.2	0.0	V		0.0	41.8	74.0	-32.2
8364.828	29.8	32.0	0.0	37.8	6.2	0.0	H		0.0	41.8	74.0	-32.2
6872.025	31.8	33.0	0.0	36.9	5.7	0.0	V		0.0	41.4	74.0	-32.6
8105.148	30.1	32.5	0.0	37.6	6.1	0.0	V		0.0	41.3	74.0	-32.7
6201.707	31.3	32.6	0.0	36.5	5.5	0.0	V		0.0	40.7	74.0	-33.3
6521.137	31.7	32.8	0.0	36.1	5.6	0.0	V		0.0	40.6	74.0	-33.4
6181.138	31.2	32.6	0.0	36.5	5.5	0.0	H		0.0	40.6	74.0	-33.4
6591.314	31.4	32.9	0.0	36.3	5.6	0.0	H		0.0	40.5	74.0	-33.5
4925.979	31.5	31.9	0.0	34.9	4.5	0.0	V		0.0	38.9	74.0	-35.1
4887.607	31.4	32.0	0.0	34.8	4.4	0.0	V		0.0	38.7	74.0	-35.3
4958.291	31.1	31.9	0.0	35.0	4.5	0.0	V		0.0	38.6	74.0	-35.4
4925.979	31.2	31.9	0.0	34.9	4.5	0.0	H		0.0	38.6	74.0	-35.4
4986.564	30.9	31.9	0.0	35.1	4.5	0.0	H		0.0	38.5	74.0	-35.5

**EMC RADIATED EMISSIONS DATA SHEET**

REV d3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

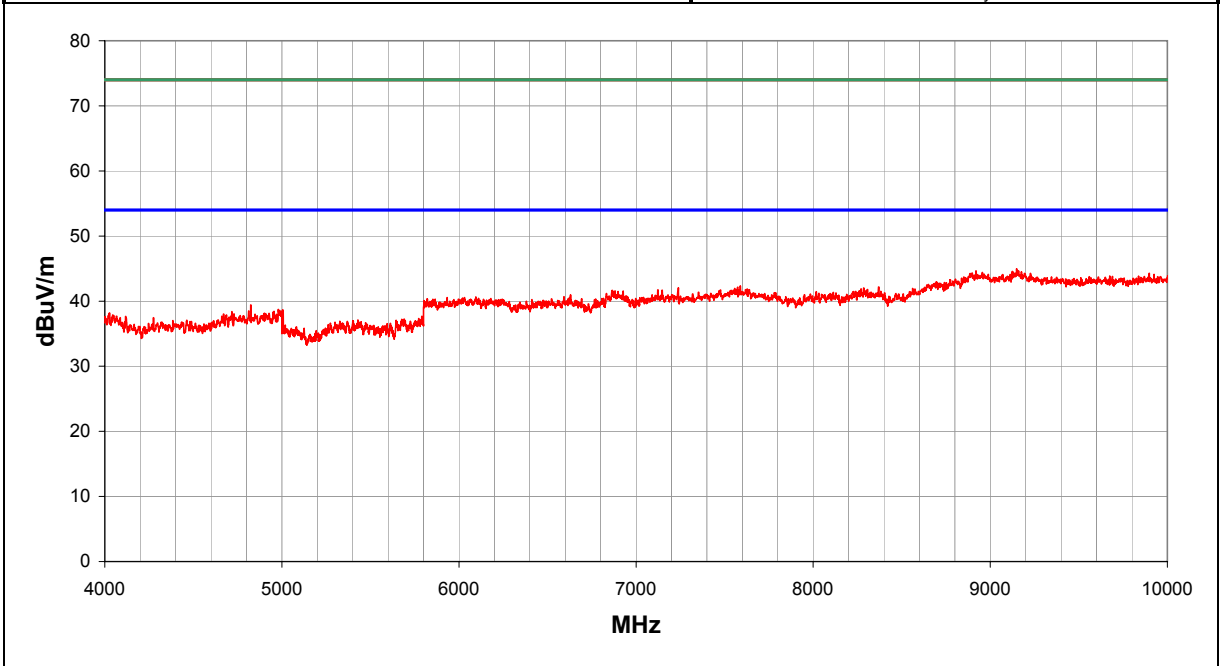
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
9149.199	29.7	30.9	0.0	39.7	6.5	0.0	V		0.0	45.0	74.0	-29.0
8919.715	29.5	31.0	0.0	39.8	6.4	0.0	H		0.0	44.7	74.0	-29.3
9898.043	29.6	30.9	0.0	38.8	6.8	0.0	V		0.0	44.3	74.0	-29.7
7588.809	31.5	32.9	0.0	37.7	6.0	0.0	H		0.0	42.4	74.0	-31.6
8370.867	30.2	32.0	0.0	37.8	6.2	0.0	H		0.0	42.2	74.0	-31.8
7238.543	31.7	33.0	0.0	37.5	5.9	0.0	V		0.0	42.1	74.0	-31.9
8286.320	30.3	32.2	0.0	37.7	6.2	0.0	V		0.0	42.0	74.0	-32.0
7557.104	31.1	32.9	0.0	37.8	6.0	0.0	V		0.0	42.0	74.0	-32.0
7123.801	31.6	33.1	0.0	37.3	5.8	0.0	V		0.0	41.7	74.0	-32.3
7147.957	31.5	33.0	0.0	37.4	5.8	0.0	H		0.0	41.7	74.0	-32.3
6867.186	32.0	33.0	0.0	36.9	5.7	0.0	V		0.0	41.6	74.0	-32.4
6864.766	32.0	33.0	0.0	36.9	5.7	0.0	H		0.0	41.6	74.0	-32.4
8017.582	30.5	32.7	0.0	37.5	6.1	0.0	H		0.0	41.5	74.0	-32.5
8129.305	30.0	32.5	0.0	37.6	6.1	0.0	V		0.0	41.3	74.0	-32.7
6630.033	31.8	32.9	0.0	36.4	5.7	0.0	H		0.0	41.0	74.0	-33.0
6095.230	31.1	32.6	0.0	36.7	5.4	0.0	H		0.0	40.6	74.0	-33.4
5933.096	31.0	32.5	0.0	36.7	5.3	0.0	V		0.0	40.6	74.0	-33.4
6692.951	31.1	32.9	0.0	36.5	5.7	0.0	V		0.0	40.4	74.0	-33.6
4825.002	32.4	32.0	0.0	34.6	4.4	0.0	H		0.0	39.4	74.0	-34.6
4980.506	31.1	31.9	0.0	35.0	4.5	0.0	V		0.0	38.7	74.0	-35.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

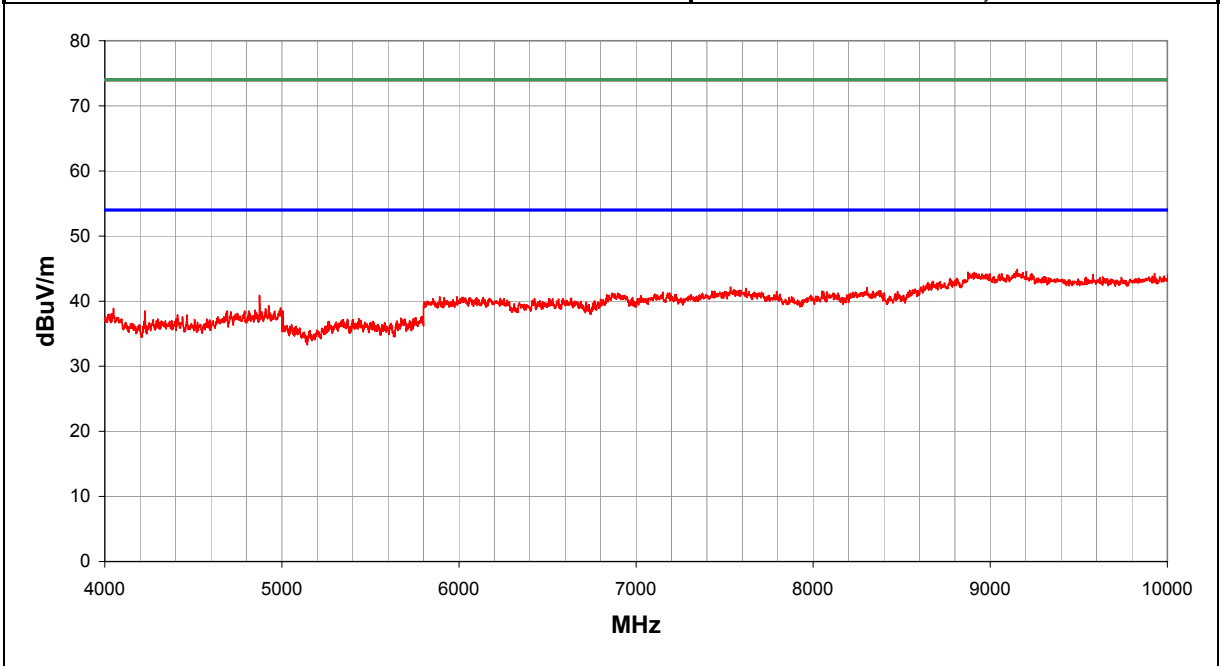
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
9152.219	29.6	30.9	0.0	39.7	6.5	0.0	H		0.0	44.9	74.0	-29.1
9146.180	29.3	30.9	0.0	39.7	6.5	0.0	V		0.0	44.6	74.0	-29.4
8874.422	29.6	31.1	0.0	39.6	6.4	0.0	H		0.0	44.5	74.0	-29.5
9928.238	29.5	30.9	0.0	38.9	6.8	0.0	V		0.0	44.2	74.0	-29.8
10003.730	29.3	30.9	0.0	38.9	6.8	0.0	H		0.0	44.1	74.0	-29.9
7534.457	31.3	32.9	0.0	37.8	6.0	0.0	H		0.0	42.2	74.0	-31.8
8304.438	30.3	32.2	0.0	37.7	6.2	0.0	H		0.0	42.1	74.0	-31.9
7552.574	30.9	32.9	0.0	37.8	6.0	0.0	V		0.0	41.8	74.0	-32.2
8304.438	29.8	32.2	0.0	37.7	6.2	0.0	V		0.0	41.6	74.0	-32.4
8050.797	30.5	32.6	0.0	37.5	6.1	0.0	H		0.0	41.5	74.0	-32.5
7794.137	30.6	32.8	0.0	37.6	6.0	0.0	V		0.0	41.5	74.0	-32.5
6864.766	31.6	33.0	0.0	36.9	5.7	0.0	V		0.0	41.2	74.0	-32.8
8141.383	29.9	32.4	0.0	37.6	6.1	0.0	V		0.0	41.2	74.0	-32.8
6898.645	31.5	33.0	0.0	37.0	5.8	0.0	H		0.0	41.2	74.0	-32.8
4873.471	33.7	32.0	0.0	34.7	4.4	0.0	V		0.0	40.9	74.0	-33.1
5988.754	31.0	32.5	0.0	36.8	5.4	0.0	H		0.0	40.7	74.0	-33.3
6017.793	30.9	32.5	0.0	36.8	5.4	0.0	V		0.0	40.6	74.0	-33.4
6634.873	31.3	32.9	0.0	36.4	5.7	0.0	H		0.0	40.5	74.0	-33.5
6509.037	31.5	32.8	0.0	36.1	5.6	0.0	V		0.0	40.4	74.0	-33.6
4925.979	31.9	31.9	0.0	34.9	4.5	0.0	V		0.0	39.3	74.0	-34.7

**EMC RADIATED EMISSIONS DATA SHEET**

REV d3.01  
09/20/2002

EUT: MPC3A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

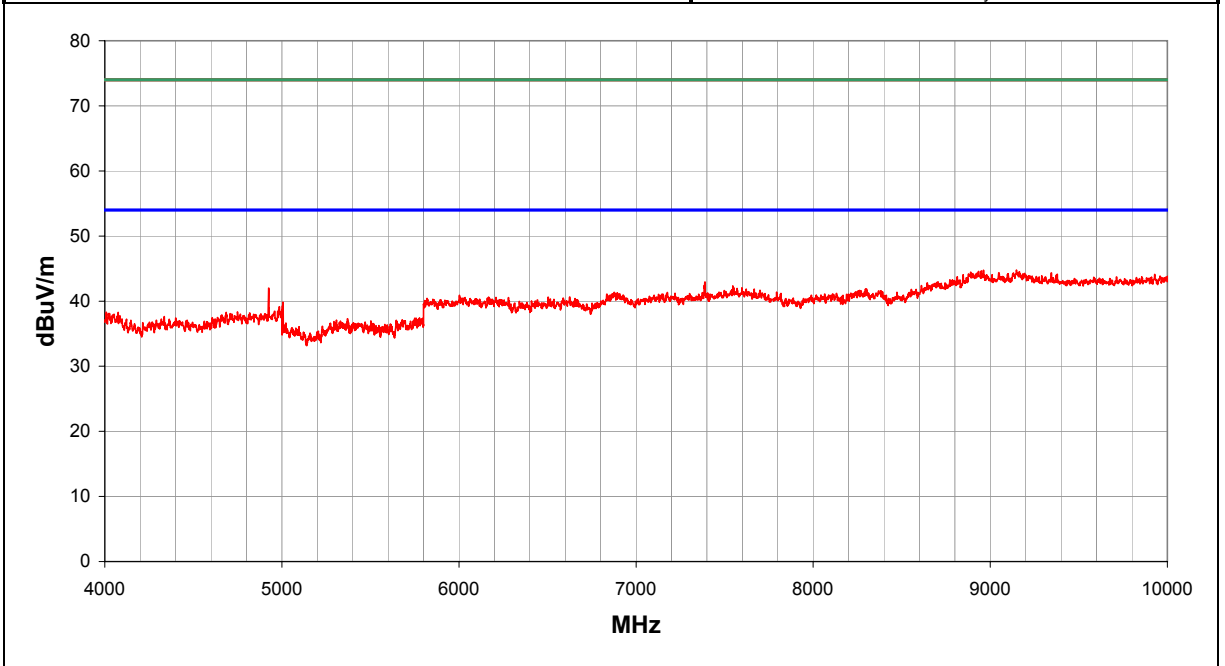
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
9147.689	29.5	30.9	0.0	39.7	6.5	0.0	V		0.0	44.8	74.0	-29.2
8961.988	29.3	31.0	0.0	40.0	6.4	0.0	V		0.0	44.7	74.0	-29.3
8949.910	29.2	31.0	0.0	40.0	6.4	0.0	H		0.0	44.6	74.0	-29.4
9164.297	29.3	30.9	0.0	39.7	6.5	0.0	H		0.0	44.5	74.0	-29.5
8814.031	29.3	31.2	0.0	39.3	6.3	0.0	H		0.0	43.8	74.0	-30.2
7389.520	32.3	32.9	0.0	37.7	5.9	0.0	V		0.0	42.9	74.0	-31.1
7546.535	31.5	32.9	0.0	37.8	6.0	0.0	V		0.0	42.4	74.0	-31.6
7597.867	31.2	32.9	0.0	37.7	6.0	0.0	H		0.0	42.1	74.0	-31.9
4925.979	34.6	31.9	0.0	34.9	4.5	0.0	H		0.0	42.0	74.0	-32.0
8301.418	30.1	32.2	0.0	37.7	6.2	0.0	V		0.0	41.9	74.0	-32.1
8295.379	30.1	32.2	0.0	37.7	6.2	0.0	H		0.0	41.9	74.0	-32.1
6876.865	31.7	33.0	0.0	36.9	5.8	0.0	H		0.0	41.4	74.0	-32.6
6879.285	31.6	33.0	0.0	36.9	5.8	0.0	V		0.0	41.3	74.0	-32.7
6002.063	31.2	32.5	0.0	36.8	5.4	0.0	V		0.0	40.9	74.0	-33.1
6625.193	31.5	32.9	0.0	36.4	5.7	0.0	V		0.0	40.7	74.0	-33.3
6167.828	31.2	32.6	0.0	36.6	5.5	0.0	H		0.0	40.6	74.0	-33.4
6504.197	31.7	32.8	0.0	36.1	5.6	0.0	H		0.0	40.6	74.0	-33.4
6588.895	31.4	32.9	0.0	36.3	5.6	0.0	H		0.0	40.5	74.0	-33.5
5006.760	32.1	31.9	0.0	35.1	4.5	0.0	H		0.0	39.8	74.0	-34.2
5005.750	32.1	31.9	0.0	35.1	4.5	0.0	H		0.0	39.8	74.0	-34.2

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.01  
09/20/2002

EUT: MPC3A-20		Work Order: INMC0042
Serial Number:		Date: 10/07/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Dipole Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

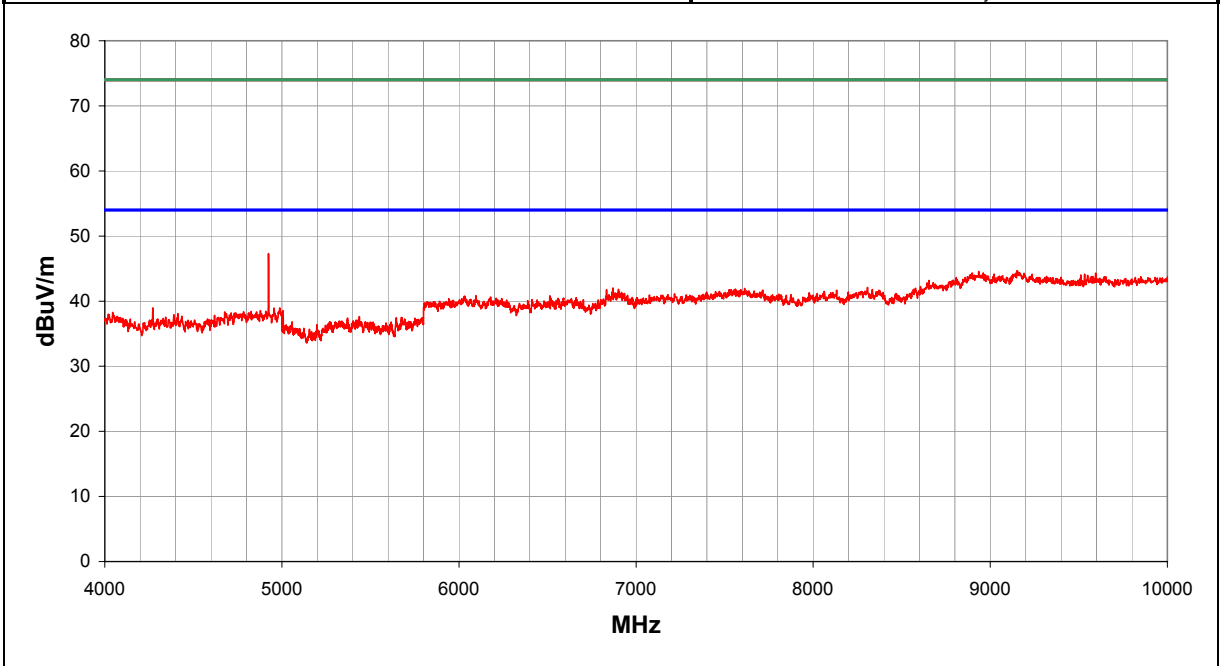
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
4923.959	39.9	31.9	0.0	34.9	4.5	0.0	H		0.0	47.3	74.0	-26.7
9150.709	29.4	30.9	0.0	39.7	6.5	0.0	H		0.0	44.7	74.0	-29.3
8934.813	29.3	31.0	0.0	39.9	6.4	0.0	H		0.0	44.6	74.0	-29.4
9158.258	29.2	30.9	0.0	39.7	6.5	0.0	V		0.0	44.5	74.0	-29.5
9596.090	29.9	30.9	0.0	38.7	6.6	0.0	V		0.0	44.3	74.0	-29.7
8307.457	30.3	32.1	0.0	37.7	6.2	0.0	V		0.0	42.1	74.0	-31.9
6869.605	32.4	33.0	0.0	36.9	5.7	0.0	V		0.0	42.0	74.0	-32.0
7612.965	31.1	32.9	0.0	37.7	6.0	0.0	H		0.0	42.0	74.0	-32.0
7561.633	31.0	32.9	0.0	37.8	6.0	0.0	V		0.0	41.9	74.0	-32.1
8132.324	30.4	32.5	0.0	37.6	6.1	0.0	H		0.0	41.7	74.0	-32.3
8370.867	29.7	32.0	0.0	37.8	6.2	0.0	H		0.0	41.7	74.0	-32.3
6918.004	31.6	33.1	0.0	37.0	5.8	0.0	H		0.0	41.3	74.0	-32.7
6095.230	31.3	32.6	0.0	36.7	5.4	0.0	V		0.0	40.8	74.0	-33.2
6513.877	31.9	32.8	0.0	36.1	5.6	0.0	V		0.0	40.8	74.0	-33.2
6029.893	31.1	32.5	0.0	36.8	5.4	0.0	H		0.0	40.8	74.0	-33.2
6177.508	31.2	32.6	0.0	36.6	5.5	0.0	H		0.0	40.6	74.0	-33.4
6661.492	31.3	32.9	0.0	36.5	5.7	0.0	H		0.0	40.5	74.0	-33.5
4270.641	33.1	32.3	0.0	34.1	4.1	0.0	H		0.0	39.0	74.0	-35.0
4988.584	31.3	31.9	0.0	35.1	4.5	0.0	H		0.0	39.0	74.0	-35.0
4956.271	31.4	31.9	0.0	35.0	4.5	0.0	H		0.0	38.9	74.0	-35.1

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Dipole Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

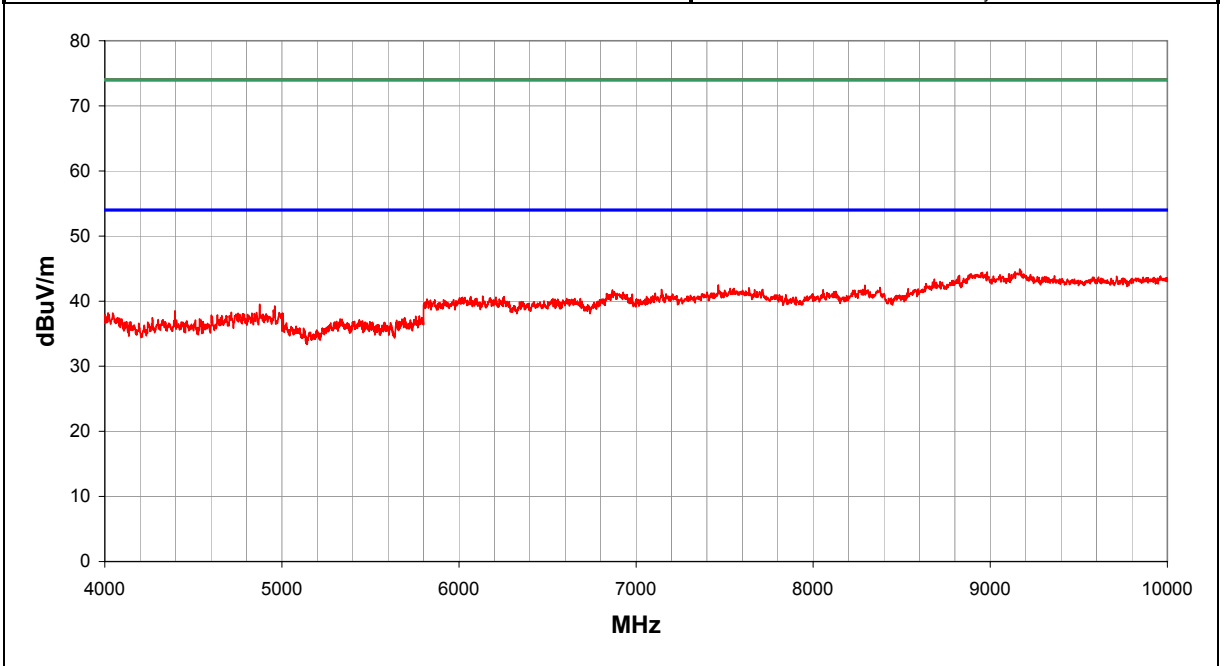
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	25

Other

\_\_\_\_\_  
Tested By:



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector <small>(blank equal peaks [PK] from scan)</small>	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
9165.807	29.7	30.9	0.0	39.7	6.5	0.0	H		0.0	44.9	74.0	-29.1
8983.125	28.9	30.9	0.0	40.1	6.4	0.0	V		0.0	44.5	74.0	-29.5
8826.109	29.4	31.2	0.0	39.4	6.3	0.0	H		0.0	43.9	74.0	-30.1
7465.008	31.7	32.9	0.0	37.8	5.9	0.0	V		0.0	42.5	74.0	-31.5
8292.359	30.7	32.2	0.0	37.7	6.2	0.0	H		0.0	42.4	74.0	-31.6
7637.121	31.2	32.8	0.0	37.7	6.0	0.0	H		0.0	42.1	74.0	-31.9
7144.938	31.6	33.0	0.0	37.4	5.8	0.0	H		0.0	41.8	74.0	-32.2
8056.836	30.7	32.6	0.0	37.5	6.1	0.0	H		0.0	41.8	74.0	-32.2
6867.186	32.1	33.0	0.0	36.9	5.7	0.0	H		0.0	41.7	74.0	-32.3
8310.477	29.9	32.1	0.0	37.7	6.2	0.0	V		0.0	41.7	74.0	-32.3
7144.938	31.4	33.0	0.0	37.4	5.8	0.0	V		0.0	41.6	74.0	-32.4
8126.285	30.2	32.5	0.0	37.6	6.1	0.0	V		0.0	41.5	74.0	-32.5
6893.805	31.5	33.0	0.0	37.0	5.8	0.0	V		0.0	41.2	74.0	-32.8
6133.949	31.3	32.6	0.0	36.6	5.5	0.0	V		0.0	40.8	74.0	-33.2
6066.191	31.1	32.5	0.0	36.7	5.4	0.0	H		0.0	40.7	74.0	-33.3
6177.508	31.1	32.6	0.0	36.6	5.5	0.0	H		0.0	40.5	74.0	-33.5
6608.254	31.3	32.9	0.0	36.3	5.6	0.0	V		0.0	40.4	74.0	-33.6
6654.232	31.2	32.9	0.0	36.4	5.7	0.0	H		0.0	40.4	74.0	-33.6
5819.359	31.0	32.4	0.0	36.5	5.2	0.0	H		0.0	40.3	74.0	-33.7
4875.490	32.3	32.0	0.0	34.8	4.4	0.0	H		0.0	39.5	74.0	-34.5

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.01  
09/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Dipole Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

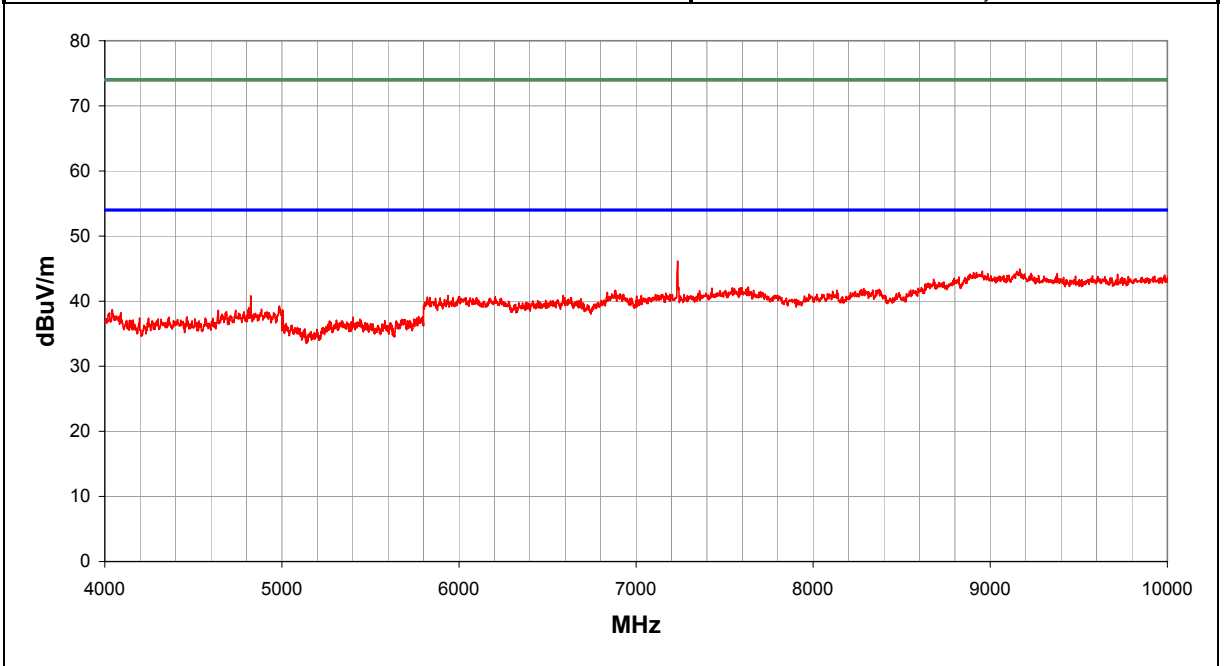
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
7234.014	35.8	33.0	0.0	37.5	5.9	0.0	H		0.0	46.1	74.0	-27.9
9165.807	29.7	30.9	0.0	39.7	6.5	0.0	H		0.0	44.9	74.0	-29.1
8922.734	29.2	31.0	0.0	39.8	6.4	0.0	V		0.0	44.4	74.0	-29.6
9719.891	29.6	30.9	0.0	38.7	6.7	0.0	V		0.0	44.1	74.0	-29.9
7634.102	31.3	32.8	0.0	37.7	6.0	0.0	H		0.0	42.2	74.0	-31.8
7591.828	31.2	32.9	0.0	37.7	6.0	0.0	V		0.0	42.1	74.0	-31.9
8286.320	30.2	32.2	0.0	37.7	6.2	0.0	V		0.0	41.9	74.0	-32.1
8271.223	30.1	32.2	0.0	37.7	6.2	0.0	H		0.0	41.8	74.0	-32.2
8133.834	30.4	32.5	0.0	37.6	6.1	0.0	H		0.0	41.7	74.0	-32.3
6884.125	32.0	33.0	0.0	36.9	5.8	0.0	V		0.0	41.7	74.0	-32.3
8111.188	30.3	32.5	0.0	37.6	6.1	0.0	V		0.0	41.5	74.0	-32.5
6838.146	31.8	33.0	0.0	36.8	5.7	0.0	H		0.0	41.4	74.0	-32.6
6588.895	31.8	32.9	0.0	36.3	5.6	0.0	V		0.0	40.9	74.0	-33.1
5937.936	31.3	32.5	0.0	36.7	5.3	0.0	H		0.0	40.9	74.0	-33.1
4825.002	33.8	32.0	0.0	34.6	4.4	0.0	H		0.0	40.8	74.0	-33.2
6204.127	31.3	32.6	0.0	36.5	5.5	0.0	V		0.0	40.7	74.0	-33.3
5821.779	31.3	32.4	0.0	36.5	5.2	0.0	H		0.0	40.6	74.0	-33.4
6632.453	31.4	32.9	0.0	36.4	5.7	0.0	H		0.0	40.6	74.0	-33.4
5836.299	31.2	32.4	0.0	36.5	5.3	0.0	V		0.0	40.6	74.0	-33.4
4986.564	31.6	31.9	0.0	35.1	4.5	0.0	H		0.0	39.2	74.0	-34.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/08/02
Customer: INTERMEC Corporation	Temperature: 72F
Attendees: None	Humidity: 42%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN
	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat panel antennas, low channel.

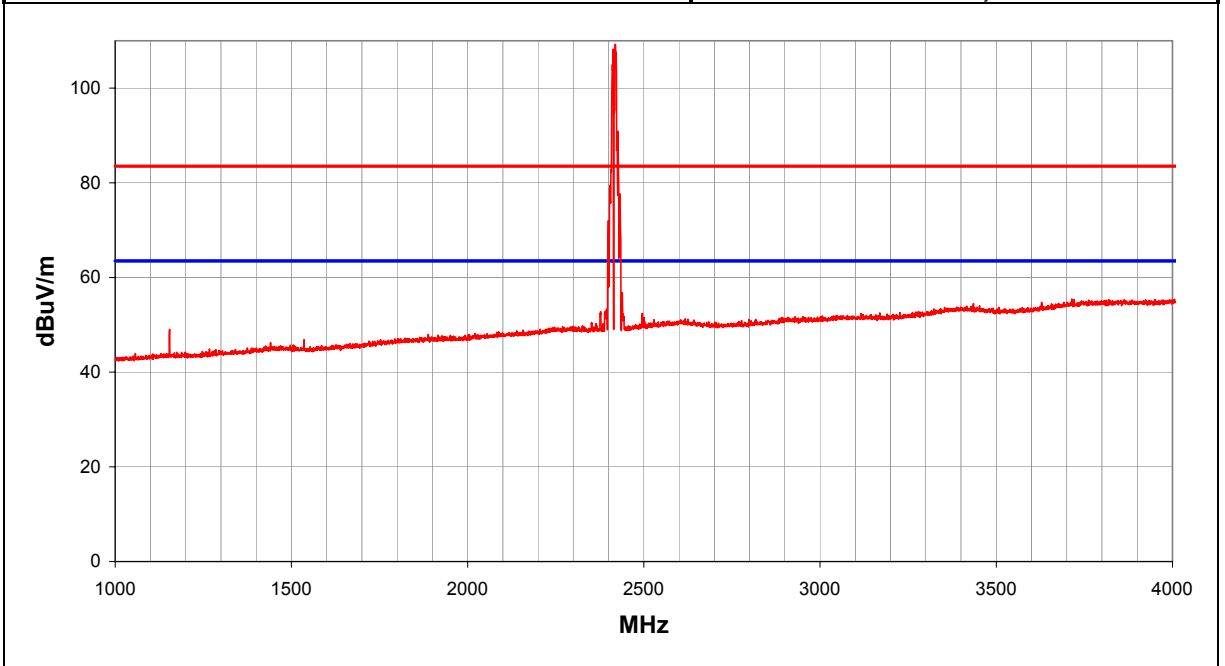
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2419.336	77.5	0.0	0.0	30.3	1.4	0.0	V		0.0	109.2	83.5	25.7
2413.222	76.5	0.0	0.0	30.3	1.4	0.0	V		0.0	108.2	83.5	24.7
2420.355	63.8	0.0	0.0	30.3	1.4	0.0	H		0.0	95.5	83.5	12.0
2416.789	63.0	0.0	0.0	30.3	1.4	0.0	H		0.0	94.7	83.5	11.2
2426.469	59.1	0.0	0.0	30.3	1.4	0.0	V		0.0	90.9	83.5	7.4
2410.165	57.5	0.0	0.0	30.3	1.4	0.0	H		0.0	89.2	83.5	5.7
2403.541	47.8	0.0	0.0	30.3	1.4	0.0	V		0.0	79.5	83.5	-4.0
2432.074	45.9	0.0	0.0	30.4	1.4	0.0	V		0.0	77.7	83.5	-5.8
2398.955	40.3	0.0	0.0	30.3	1.4	0.0	V		0.0	72.0	83.5	-11.5
2403.541	35.2	0.0	0.0	30.3	1.4	0.0	H		0.0	66.9	83.5	-16.6
2431.565	26.4	0.0	0.0	30.4	1.4	0.0	H		0.0	58.2	83.5	-25.3
2438.698	25.0	0.0	0.0	30.4	1.4	0.0	V		0.0	56.8	83.5	-26.7
3714.509	20.2	0.0	0.0	33.5	1.7	0.0	V		0.0	55.4	83.5	-28.1
3950.927	19.2	0.0	0.0	34.3	1.8	0.0	H		0.0	55.3	83.5	-28.2
3435.131	20.2	0.0	0.0	32.6	1.6	0.0	H		0.0	54.5	83.5	-29.0
2394.370	21.6	0.0	0.0	30.2	1.4	0.0	V		0.0	53.3	83.5	-30.2
2377.555	21.2	0.0	0.0	30.2	1.4	0.0	V		0.0	52.8	83.5	-30.7
2495.764	20.4	0.0	0.0	30.6	1.4	0.0	V		0.0	52.4	83.5	-31.1
2500.860	19.5	0.0	0.0	30.6	1.4	0.0	V		0.0	51.5	83.5	-32.0
2499.331	19.4	0.0	0.0	30.6	1.4	0.0	V		0.0	51.4	83.5	-32.1



**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 72F
Attendees: None		Humidity: 42%
Cust. Ref. No.:		Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**

Yagi antennas, low channel.

**EUT OPERATING MODES**

Transmitting on both radios

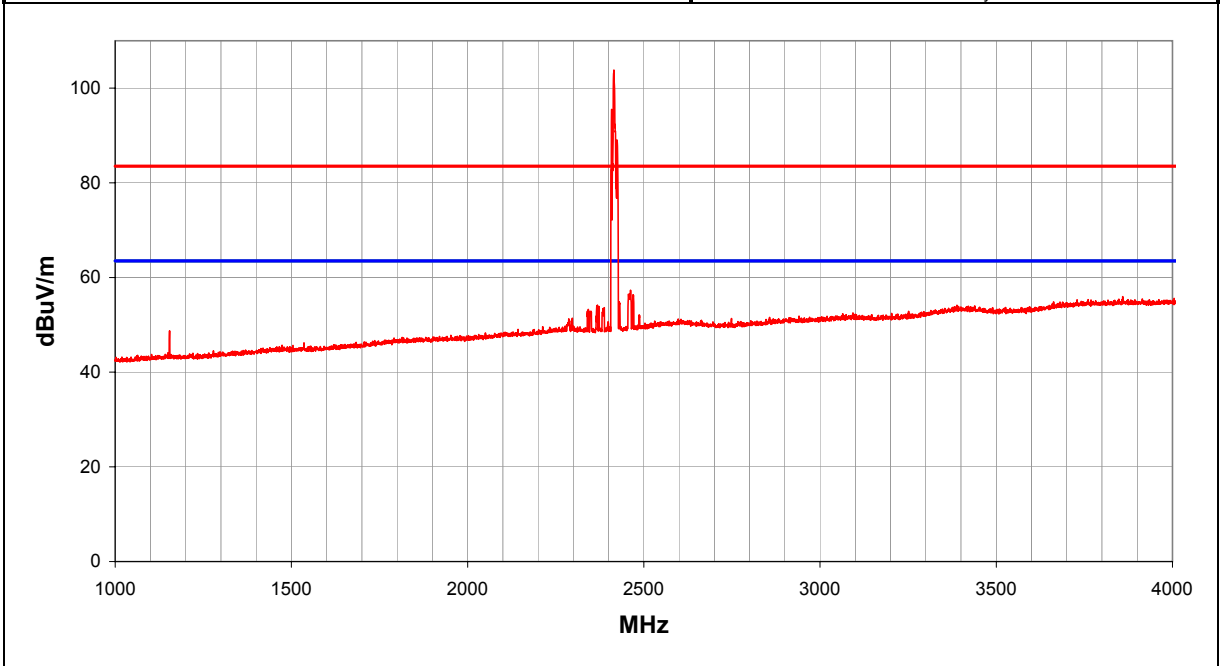
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2415.260	72.1	0.0	0.0	30.3	1.4	0.0	V		0.0	103.8	83.5	20.3
2408.636	63.8	0.0	0.0	30.3	1.4	0.0	V		0.0	95.5	83.5	12.0
2418.317	60.6	0.0	0.0	30.3	1.4	0.0	H		0.0	92.3	83.5	8.8
2423.922	57.3	0.0	0.0	30.3	1.4	0.0	V		0.0	89.1	83.5	5.6
2419.846	47.5	0.0	0.0	30.3	1.4	0.0	V		0.0	79.2	83.5	-4.3
2424.941	47.0	0.0	0.0	30.3	1.4	0.0	H		0.0	78.8	83.5	-4.7
2462.136	25.4	0.0	0.0	30.5	1.4	0.0	V		0.0	57.3	83.5	-26.2
2469.269	24.4	0.0	0.0	30.5	1.4	0.0	V		0.0	56.3	83.5	-27.2
3858.703	20.2	0.0	0.0	34.0	1.7	0.0	V		0.0	56.0	83.5	-27.5
3848.003	19.7	0.0	0.0	34.0	1.7	0.0	H		0.0	55.4	83.5	-28.1
2430.036	23.1	0.0	0.0	30.4	1.4	0.0	H		0.0	54.9	83.5	-28.6
2368.384	22.6	0.0	0.0	30.2	1.4	0.0	V		0.0	54.2	83.5	-29.3
2372.970	22.3	0.0	0.0	30.2	1.4	0.0	V		0.0	53.9	83.5	-29.6
2387.746	22.0	0.0	0.0	30.2	1.4	0.0	V		0.0	53.6	83.5	-29.9
2342.398	21.8	0.0	0.0	30.1	1.4	0.0	V		0.0	53.3	83.5	-30.2
2349.532	21.4	0.0	0.0	30.1	1.4	0.0	V		0.0	52.9	83.5	-30.6
2486.593	20.1	0.0	0.0	30.6	1.4	0.0	V		0.0	52.1	83.5	-31.4
2297.051	20.1	0.0	0.0	29.9	1.4	0.0	V		0.0	51.4	83.5	-32.1
2286.861	20.0	0.0	0.0	29.9	1.4	0.0	V		0.0	51.3	83.5	-32.2
2597.828	19.0	0.0	0.0	30.8	1.5	0.0	H		0.0	51.2	83.5	-32.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/08/02
Customer: INTERMEC Corporation	Temperature: 72F
Attendees: None	Humidity: 42%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN
	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**  
 Omni antennas, low channel.

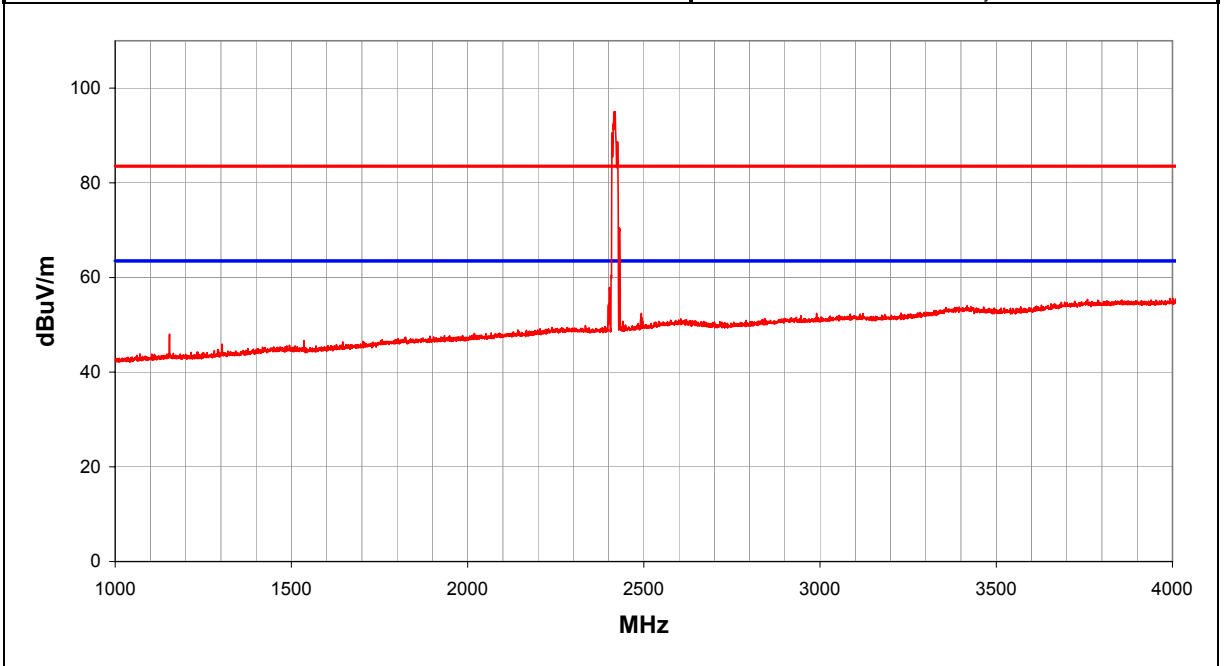
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2418.317	63.3	0.0	0.0	30.3	1.4	0.0	H		0.0	95.0	83.5	11.5
2416.279	63.3	0.0	0.0	30.3	1.4	0.0	H		0.0	95.0	83.5	11.5
2413.731	60.8	0.0	0.0	30.3	1.4	0.0	V		0.0	92.5	83.5	9.0
2418.317	59.9	0.0	0.0	30.3	1.4	0.0	V		0.0	91.6	83.5	8.1
2410.674	58.9	0.0	0.0	30.3	1.4	0.0	H		0.0	90.6	83.5	7.1
2425.450	56.9	0.0	0.0	30.3	1.4	0.0	H		0.0	88.7	83.5	5.2
2412.712	56.4	0.0	0.0	30.3	1.4	0.0	H		0.0	88.1	83.5	4.6
2423.922	54.5	0.0	0.0	30.3	1.4	0.0	H		0.0	86.3	83.5	2.8
2430.546	38.7	0.0	0.0	30.4	1.4	0.0	H		0.0	70.5	83.5	-13.0
2402.522	26.2	0.0	0.0	30.3	1.4	0.0	V		0.0	57.9	83.5	-25.6
4000.350	19.4	0.0	0.0	34.5	1.8	0.0	V		0.0	55.7	83.5	-27.8
3992.707	19.3	0.0	0.0	34.5	1.8	0.0	H		0.0	55.5	83.5	-28.0
2399.974	22.7	0.0	0.0	30.3	1.4	0.0	H		0.0	54.4	83.5	-29.1
3417.298	19.8	0.0	0.0	32.6	1.6	0.0	V		0.0	54.0	83.5	-29.5
2990.160	19.4	0.0	0.0	31.5	1.5	0.0	V		0.0	52.4	83.5	-31.1
2492.707	20.4	0.0	0.0	30.6	1.4	0.0	H		0.0	52.4	83.5	-31.1
2495.255	19.4	0.0	0.0	30.6	1.4	0.0	H		0.0	51.4	83.5	-32.1
2604.961	19.0	0.0	0.0	30.8	1.5	0.0	V		0.0	51.3	83.5	-32.2
2440.736	18.9	0.0	0.0	30.4	1.4	0.0	H		0.0	50.7	83.5	-32.8
1154.382	21.6	0.0	0.0	25.3	1.1	0.0	V		0.0	48.0	83.5	-35.5

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 72F
Attendees: None		Humidity: 42%
Cust. Ref. No.:		Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**

Dipole antennas, low channel.

**EUT OPERATING MODES**

Transmitting on both radios

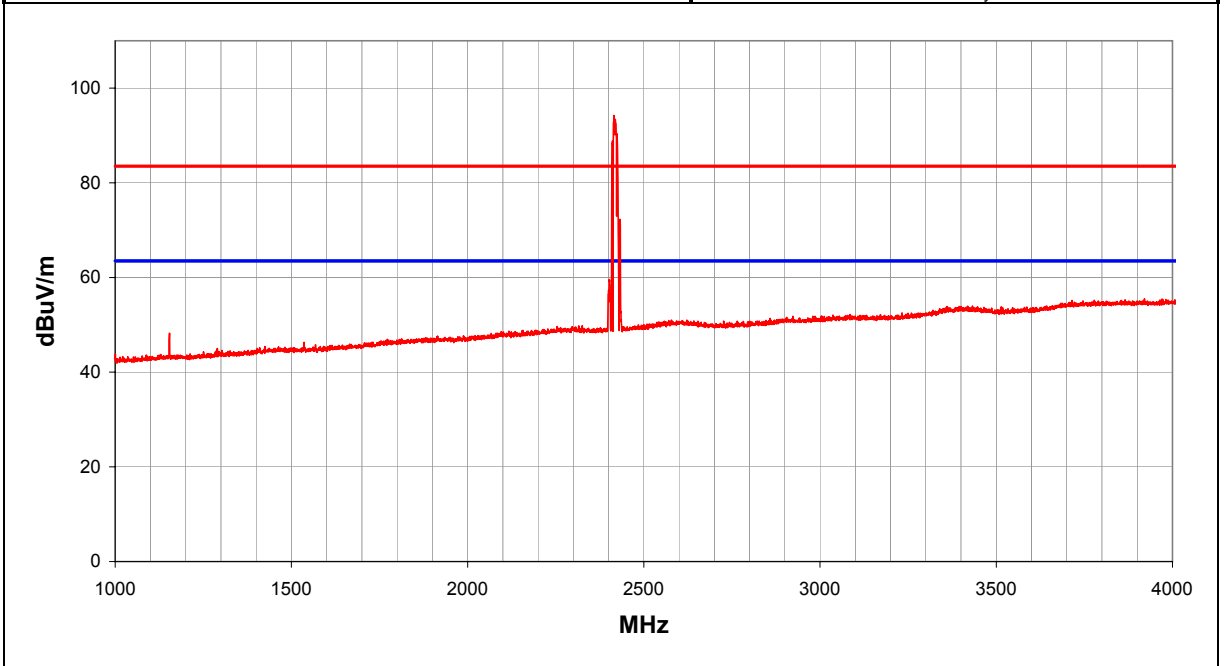
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2415.260	62.5	0.0	0.0	30.3	1.4	0.0	V		0.0	94.2	83.5	10.7
2419.336	61.6	0.0	0.0	30.3	1.4	0.0	V		0.0	93.3	83.5	9.8
2415.770	59.8	0.0	0.0	30.3	1.4	0.0	H		0.0	91.5	83.5	8.0
2420.865	59.0	0.0	0.0	30.3	1.4	0.0	H		0.0	90.8	83.5	7.3
2423.922	58.6	0.0	0.0	30.3	1.4	0.0	V		0.0	90.4	83.5	6.9
2411.184	57.1	0.0	0.0	30.3	1.4	0.0	V		0.0	88.8	83.5	5.3
2424.431	53.4	0.0	0.0	30.3	1.4	0.0	H		0.0	85.2	83.5	1.7
2411.184	44.0	0.0	0.0	30.3	1.4	0.0	H		0.0	75.7	83.5	-7.8
2432.074	40.5	0.0	0.0	30.4	1.4	0.0	V		0.0	72.3	83.5	-11.2
2433.093	29.6	0.0	0.0	30.4	1.4	0.0	H		0.0	61.4	83.5	-22.1
2402.012	27.9	0.0	0.0	30.3	1.4	0.0	H		0.0	59.6	83.5	-23.9
2404.051	26.6	0.0	0.0	30.3	1.4	0.0	V		0.0	58.3	83.5	-25.2
2399.974	25.6	0.0	0.0	30.3	1.4	0.0	V		0.0	57.3	83.5	-26.2
3920.355	19.5	0.0	0.0	34.2	1.8	0.0	V		0.0	55.5	83.5	-28.0
3970.288	19.3	0.0	0.0	34.4	1.8	0.0	H		0.0	55.5	83.5	-28.0
2436.150	19.3	0.0	0.0	30.4	1.4	0.0	V		0.0	51.1	83.5	-32.4
1154.382	21.8	0.0	0.0	25.3	1.1	0.0	V		0.0	48.2	83.5	-35.3
1536.176	18.3	0.0	0.0	26.8	1.2	0.0	V		0.0	46.3	83.5	-37.2
1153.873	18.3	0.0	0.0	25.3	1.1	0.0	H		0.0	44.7	83.5	-38.8

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 72F
Attendees: None		Humidity: 42%
Cust. Ref. No.:		Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**

Dipole antennas, mid channel.

**EUT OPERATING MODES**

Transmitting on both radios

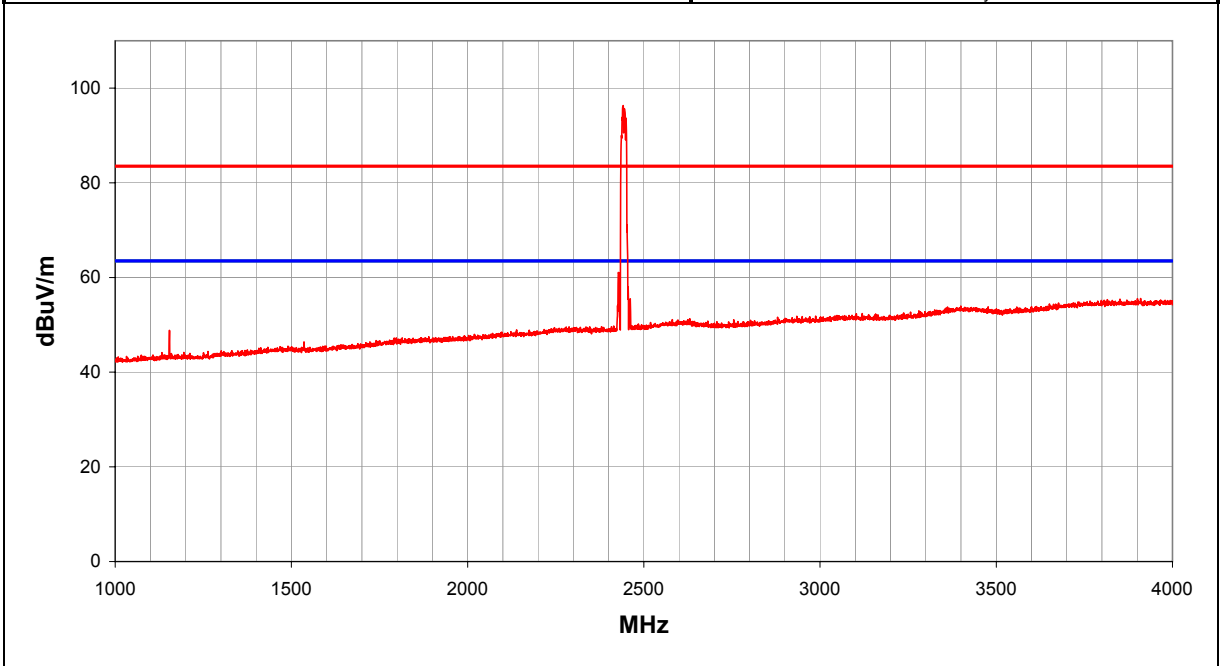
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2441.246	64.5	0.0	0.0	30.4	1.4	0.0	V		0.0	96.3	83.5	12.8
2444.812	63.8	0.0	0.0	30.4	1.4	0.0	V		0.0	95.6	83.5	12.1
2443.793	62.6	0.0	0.0	30.4	1.4	0.0	H		0.0	94.4	83.5	10.9
2442.265	62.6	0.0	0.0	30.4	1.4	0.0	H		0.0	94.4	83.5	10.9
2449.398	61.8	0.0	0.0	30.4	1.4	0.0	V		0.0	93.7	83.5	10.2
2438.188	56.5	0.0	0.0	30.4	1.4	0.0	H		0.0	88.3	83.5	4.8
2450.417	45.7	0.0	0.0	30.4	1.4	0.0	H		0.0	77.6	83.5	-5.9
2427.998	29.3	0.0	0.0	30.4	1.4	0.0	V		0.0	61.1	83.5	-22.4
2429.017	29.2	0.0	0.0	30.4	1.4	0.0	H		0.0	61.0	83.5	-22.5
2455.512	26.1	0.0	0.0	30.4	1.4	0.0	V		0.0	58.0	83.5	-25.5
3909.655	19.6	0.0	0.0	34.2	1.8	0.0	V		0.0	55.5	83.5	-28.0
3900.484	19.6	0.0	0.0	34.2	1.8	0.0	H		0.0	55.5	83.5	-28.0
2461.626	23.6	0.0	0.0	30.5	1.4	0.0	V		0.0	55.5	83.5	-28.0
2457.550	22.6	0.0	0.0	30.5	1.4	0.0	H		0.0	54.5	83.5	-29.0
2430.036	22.2	0.0	0.0	30.4	1.4	0.0	V		0.0	54.0	83.5	-29.5
2424.431	19.7	0.0	0.0	30.3	1.4	0.0	H		0.0	51.5	83.5	-32.0
2630.438	19.0	0.0	0.0	30.8	1.5	0.0	V		0.0	51.3	83.5	-32.2
1153.873	22.4	0.0	0.0	25.3	1.1	0.0	V		0.0	48.8	83.5	-34.7
1535.667	18.4	0.0	0.0	26.8	1.2	0.0	V		0.0	46.4	83.5	-37.1
1153.873	18.2	0.0	0.0	25.3	1.1	0.0	H		0.0	44.6	83.5	-38.9

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 72F
Attendees: None		Humidity: 42%
Cust. Ref. No.:		Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**

Omni antennas, mid channel.

**EUT OPERATING MODES**

Transmitting on both radios

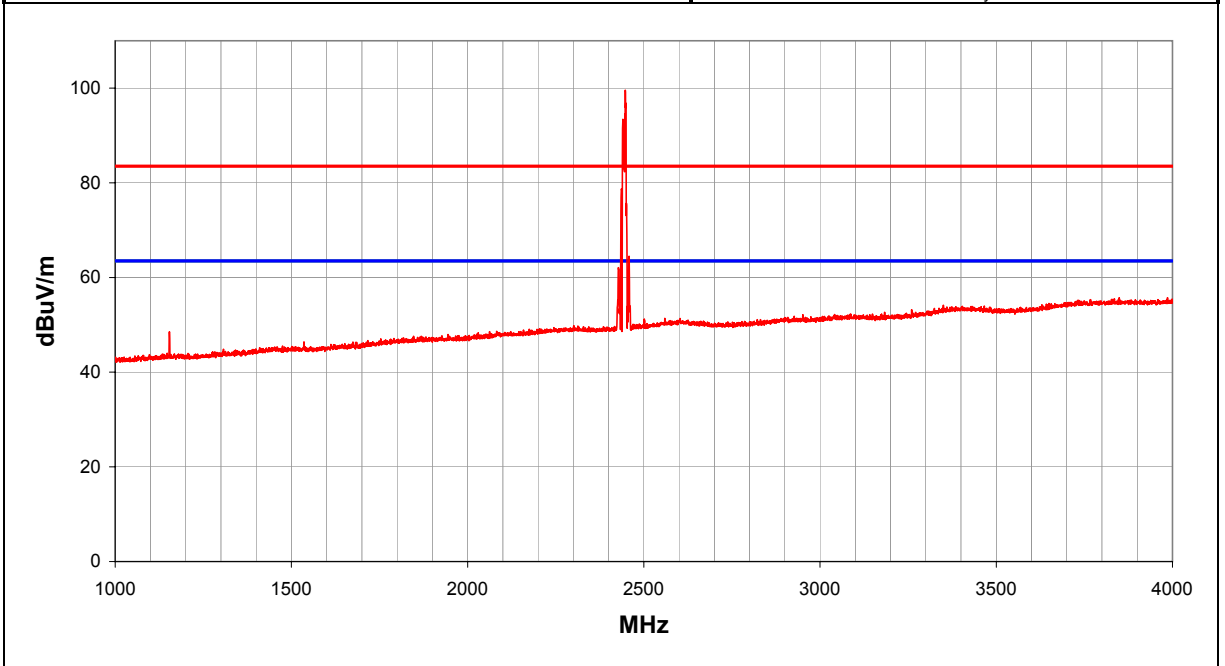
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2447.360	67.7	0.0	0.0	30.4	1.4	0.0	H		0.0	99.5	83.5	16.0
2440.736	61.6	0.0	0.0	30.4	1.4	0.0	H		0.0	93.4	83.5	9.9
2440.736	53.6	0.0	0.0	30.4	1.4	0.0	V		0.0	85.4	83.5	1.9
2443.793	51.2	0.0	0.0	30.4	1.4	0.0	V		0.0	83.0	83.5	-0.5
2436.660	46.9	0.0	0.0	30.4	1.4	0.0	V		0.0	78.7	83.5	-4.8
2450.417	43.8	0.0	0.0	30.4	1.4	0.0	V		0.0	75.7	83.5	-7.8
2458.060	32.6	0.0	0.0	30.5	1.4	0.0	H		0.0	64.5	83.5	-19.0
2427.998	30.3	0.0	0.0	30.4	1.4	0.0	V		0.0	62.1	83.5	-21.4
2427.998	29.5	0.0	0.0	30.4	1.4	0.0	H		0.0	61.3	83.5	-22.2
2432.584	26.8	0.0	0.0	30.4	1.4	0.0	V		0.0	58.6	83.5	-24.9
2456.022	24.0	0.0	0.0	30.5	1.4	0.0	V		0.0	55.9	83.5	-27.6
3849.022	20.0	0.0	0.0	34.0	1.7	0.0	H		0.0	55.7	83.5	-27.8
4001.369	19.1	0.0	0.0	34.5	1.8	0.0	V		0.0	55.4	83.5	-28.1
2453.474	22.1	0.0	0.0	30.4	1.4	0.0	V		0.0	54.0	83.5	-29.5
2424.431	20.5	0.0	0.0	30.3	1.4	0.0	V		0.0	52.3	83.5	-31.2
2460.607	19.8	0.0	0.0	30.5	1.4	0.0	V		0.0	51.7	83.5	-31.8
2559.614	19.2	0.0	0.0	30.7	1.5	0.0	V		0.0	51.4	83.5	-32.1
2501.369	19.2	0.0	0.0	30.6	1.4	0.0	H		0.0	51.2	83.5	-32.3
1153.873	22.1	0.0	0.0	25.3	1.1	0.0	V		0.0	48.5	83.5	-35.0
1535.667	18.4	0.0	0.0	26.8	1.2	0.0	V		0.0	46.4	83.5	-37.1

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/08/02
Customer: INTERMEC Corporation		Temperature: 72F
Attendees: None		Humidity: 42%
Cust. Ref. No.:		Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**

Yagi antennas, mid channel.

**EUT OPERATING MODES**

Transmitting on both radios

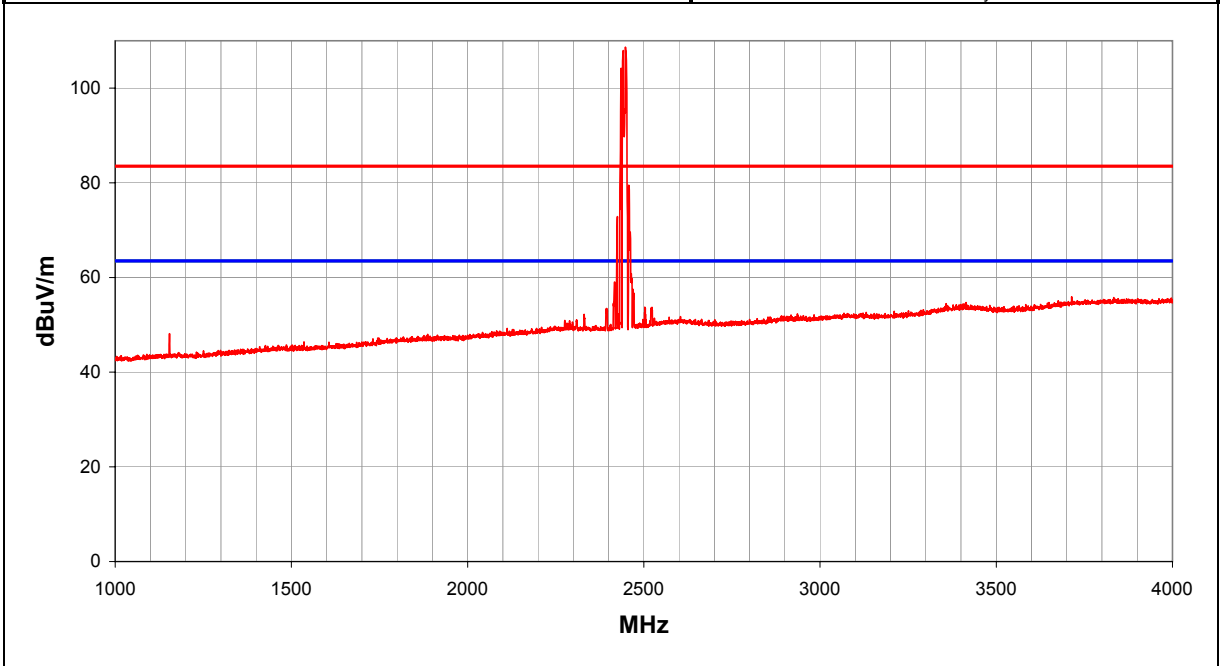
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2447.869	76.8	0.0	0.0	30.4	1.4	0.0	V		0.0	108.6	83.5	25.1
2441.755	76.1	0.0	0.0	30.4	1.4	0.0	V		0.0	107.9	83.5	24.4
2435.641	72.4	0.0	0.0	30.4	1.4	0.0	V		0.0	104.2	83.5	20.7
2441.755	61.2	0.0	0.0	30.4	1.4	0.0	H		0.0	93.0	83.5	9.5
2449.907	51.8	0.0	0.0	30.4	1.4	0.0	H		0.0	83.7	83.5	0.2
2457.550	47.6	0.0	0.0	30.5	1.4	0.0	V		0.0	79.5	83.5	-4.0
2437.679	45.0	0.0	0.0	30.4	1.4	0.0	H		0.0	76.8	83.5	-6.7
2424.941	41.1	0.0	0.0	30.3	1.4	0.0	V		0.0	72.9	83.5	-10.6
2461.626	37.7	0.0	0.0	30.5	1.4	0.0	V		0.0	69.6	83.5	-13.9
2417.298	27.3	0.0	0.0	30.3	1.4	0.0	V		0.0	59.0	83.5	-24.5
2469.269	25.6	0.0	0.0	30.5	1.4	0.0	V		0.0	57.5	83.5	-26.0
3713.999	20.7	0.0	0.0	33.5	1.7	0.0	V		0.0	55.9	83.5	-27.6
3996.274	19.3	0.0	0.0	34.5	1.8	0.0	H		0.0	55.6	83.5	-27.9
3414.241	20.5	0.0	0.0	32.6	1.6	0.0	V		0.0	54.7	83.5	-28.8
3409.146	20.2	0.0	0.0	32.6	1.6	0.0	H		0.0	54.4	83.5	-29.1
2502.898	21.7	0.0	0.0	30.6	1.4	0.0	V		0.0	53.7	83.5	-29.8
2522.928	21.6	0.0	0.0	30.6	1.4	0.0	V		0.0	53.7	83.5	-29.8
2503.917	21.5	0.0	0.0	30.6	1.4	0.0	V		0.0	53.5	83.5	-30.0
2394.879	21.8	0.0	0.0	30.2	1.4	0.0	V		0.0	53.5	83.5	-30.0
2503.407	21.1	0.0	0.0	30.6	1.4	0.0	V		0.0	53.1	83.5	-30.4

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/08/02
Customer: INTERMEC Corporation	Temperature: 72F
Attendees: None	Humidity: 42%
Cust. Ref. No.:	Barometric Pressure: 30.15
Tested by: Dan Haas	Power: DC over LAN
	Job Site: EV10

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat panel antennas, mid channel.

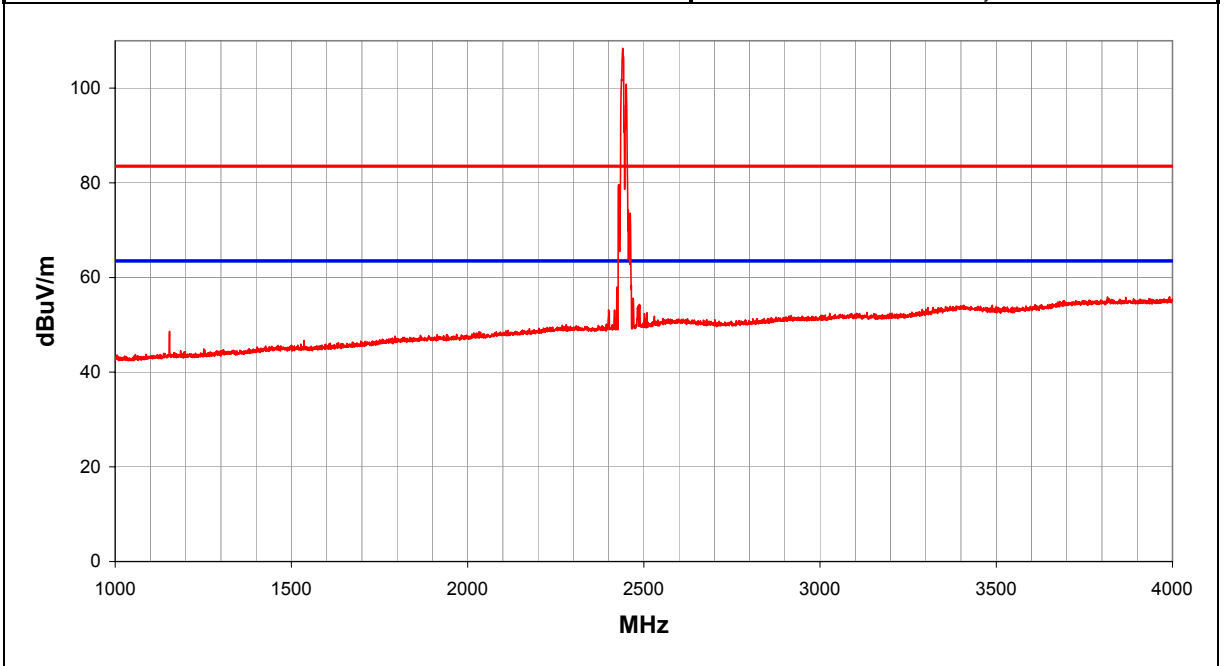
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2440.227	76.6	0.0	0.0	30.4	1.4	0.0	V		0.0	108.4	83.5	24.9
2449.907	69.0	0.0	0.0	30.4	1.4	0.0	V		0.0	100.9	83.5	17.4
2446.341	60.5	0.0	0.0	30.4	1.4	0.0	H		0.0	92.3	83.5	8.8
2442.265	59.7	0.0	0.0	30.4	1.4	0.0	H		0.0	91.5	83.5	8.0
2449.398	56.5	0.0	0.0	30.4	1.4	0.0	H		0.0	88.4	83.5	4.9
2436.150	55.4	0.0	0.0	30.4	1.4	0.0	H		0.0	87.2	83.5	3.7
2429.017	47.8	0.0	0.0	30.4	1.4	0.0	V		0.0	79.6	83.5	-3.9
2456.022	42.4	0.0	0.0	30.5	1.4	0.0	V		0.0	74.3	83.5	-9.2
2461.626	41.7	0.0	0.0	30.5	1.4	0.0	V		0.0	73.6	83.5	-9.9
2457.550	41.3	0.0	0.0	30.5	1.4	0.0	V		0.0	73.2	83.5	-10.3
2457.550	32.8	0.0	0.0	30.5	1.4	0.0	H		0.0	64.7	83.5	-18.8
2423.922	26.2	0.0	0.0	30.3	1.4	0.0	V		0.0	58.0	83.5	-25.5
3991.688	19.7	0.0	0.0	34.5	1.8	0.0	V		0.0	55.9	83.5	-27.6
3815.903	20.3	0.0	0.0	33.9	1.7	0.0	H		0.0	55.9	83.5	-27.6
2469.779	23.7	0.0	0.0	30.5	1.4	0.0	V		0.0	55.6	83.5	-27.9
2487.103	22.3	0.0	0.0	30.6	1.4	0.0	V		0.0	54.3	83.5	-29.2
2483.536	22.0	0.0	0.0	30.5	1.4	0.0	V		0.0	54.0	83.5	-29.5
2399.974	21.5	0.0	0.0	30.3	1.4	0.0	V		0.0	53.2	83.5	-30.3
2416.789	21.4	0.0	0.0	30.3	1.4	0.0	V		0.0	53.1	83.5	-30.4
2509.012	20.5	0.0	0.0	30.6	1.4	0.0	V		0.0	52.6	83.5	-30.9

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/09/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 43%
Cust. Ref. No.:	Barometric Pressure 30.3
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat Panel Antennas, High Channel

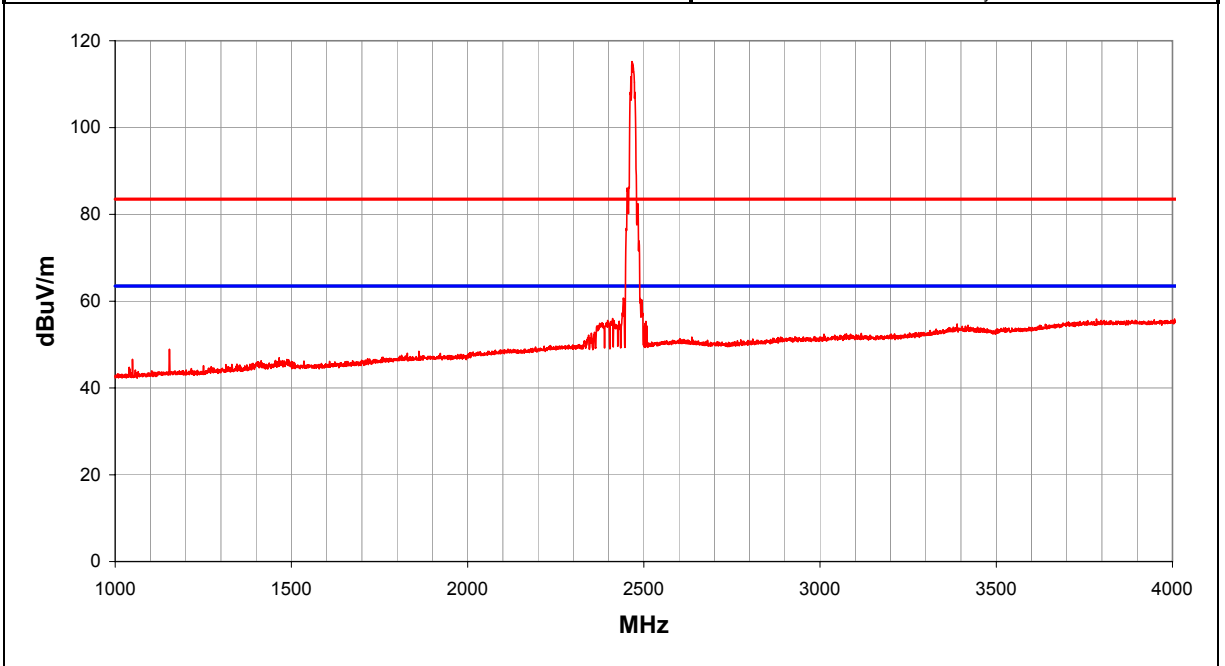
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2466.212	83.3	0.0	0.0	30.5	1.4	0.0	V		0.0	115.2	83.5	31.7
2463.155	79.8	0.0	0.0	30.5	1.4	0.0	V		0.0	111.7	83.5	28.2
2466.212	63.9	0.0	0.0	30.5	1.4	0.0	H		0.0	95.8	83.5	12.3
2452.965	54.2	0.0	0.0	30.4	1.4	0.0	V		0.0	86.1	83.5	2.6
2471.307	53.6	0.0	0.0	30.5	1.4	0.0	H		0.0	85.5	83.5	2.0
2483.026	50.5	0.0	0.0	30.5	1.4	0.0	V		0.0	82.5	83.5	-1.0
2486.593	41.9	0.0	0.0	30.6	1.4	0.0	V		0.0	73.9	83.5	-9.6
2459.079	38.1	0.0	0.0	30.5	1.4	0.0	H		0.0	70.0	83.5	-13.5
2441.755	28.9	0.0	0.0	30.4	1.4	0.0	V		0.0	60.7	83.5	-22.8
2494.236	28.3	0.0	0.0	30.6	1.4	0.0	V		0.0	60.3	83.5	-23.2
2477.931	25.2	0.0	0.0	30.5	1.4	0.0	H		0.0	57.2	83.5	-26.3
2411.693	24.3	0.0	0.0	30.3	1.4	0.0	V		0.0	56.0	83.5	-27.5
3784.313	20.4	0.0	0.0	33.8	1.7	0.0	V		0.0	55.9	83.5	-27.6
2397.427	23.9	0.0	0.0	30.3	1.4	0.0	V		0.0	55.6	83.5	-27.9
3797.561	20.0	0.0	0.0	33.8	1.7	0.0	H		0.0	55.5	83.5	-28.0
2415.770	23.8	0.0	0.0	30.3	1.4	0.0	V		0.0	55.5	83.5	-28.0
2430.036	23.6	0.0	0.0	30.4	1.4	0.0	V		0.0	55.4	83.5	-28.1
2505.955	23.3	0.0	0.0	30.6	1.4	0.0	V		0.0	55.3	83.5	-28.2
2381.122	23.4	0.0	0.0	30.2	1.4	0.0	V		0.0	55.0	83.5	-28.5
2502.898	22.8	0.0	0.0	30.6	1.4	0.0	V		0.0	54.8	83.5	-28.7



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/09/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 43%
Cust. Ref. No.:	Barometric Pressure 30.3
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Omni Antennas, High Channel

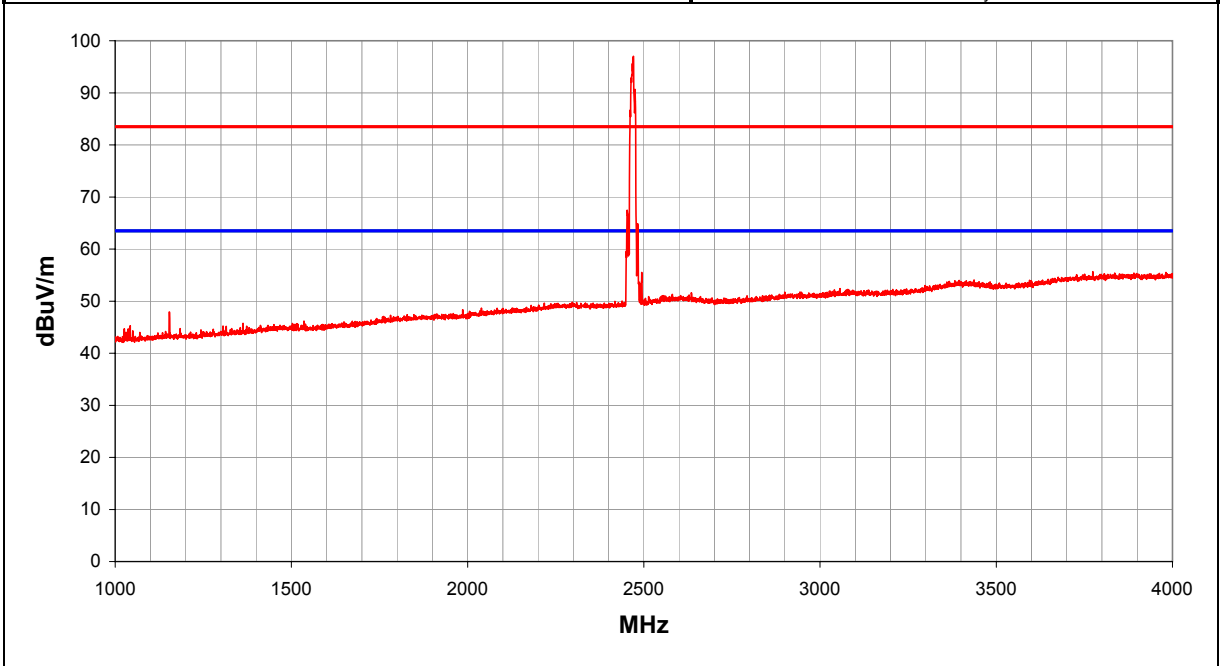
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2470.288	65.1	0.0	0.0	30.5	1.4	0.0	H		0.0	97.0	83.5	13.5
2465.703	60.2	0.0	0.0	30.5	1.4	0.0	V		0.0	92.1	83.5	8.6
2474.874	58.7	0.0	0.0	30.5	1.4	0.0	H		0.0	90.6	83.5	7.1
2469.779	58.6	0.0	0.0	30.5	1.4	0.0	V		0.0	90.5	83.5	7.0
2466.722	58.6	0.0	0.0	30.5	1.4	0.0	V		0.0	90.5	83.5	7.0
2471.817	57.2	0.0	0.0	30.5	1.4	0.0	V		0.0	89.1	83.5	5.6
2461.626	51.2	0.0	0.0	30.5	1.4	0.0	V		0.0	83.1	83.5	-0.4
2452.965	35.6	0.0	0.0	30.4	1.4	0.0	H		0.0	67.5	83.5	-16.0
2454.493	34.8	0.0	0.0	30.4	1.4	0.0	V		0.0	66.7	83.5	-16.8
2482.517	32.9	0.0	0.0	30.5	1.4	0.0	H		0.0	64.9	83.5	-18.6
2457.550	31.1	0.0	0.0	30.5	1.4	0.0	H		0.0	63.0	83.5	-20.5
2457.550	28.9	0.0	0.0	30.5	1.4	0.0	V		0.0	60.8	83.5	-22.7
2482.517	27.4	0.0	0.0	30.5	1.4	0.0	V		0.0	59.4	83.5	-24.1
3774.123	20.2	0.0	0.0	33.7	1.7	0.0	H		0.0	55.7	83.5	-27.8
4003.407	19.3	0.0	0.0	34.5	1.8	0.0	V		0.0	55.6	83.5	-27.9
2494.236	23.5	0.0	0.0	30.6	1.4	0.0	H		0.0	55.5	83.5	-28.0
2489.650	21.3	0.0	0.0	30.6	1.4	0.0	H		0.0	53.3	83.5	-30.2
2635.023	19.3	0.0	0.0	30.8	1.5	0.0	V		0.0	51.6	83.5	-31.9
1153.873	21.5	0.0	0.0	25.3	1.1	0.0	V		0.0	47.9	83.5	-35.6
1535.667	18.2	0.0	0.0	26.8	1.2	0.0	V		0.0	46.2	83.5	-37.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/09/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

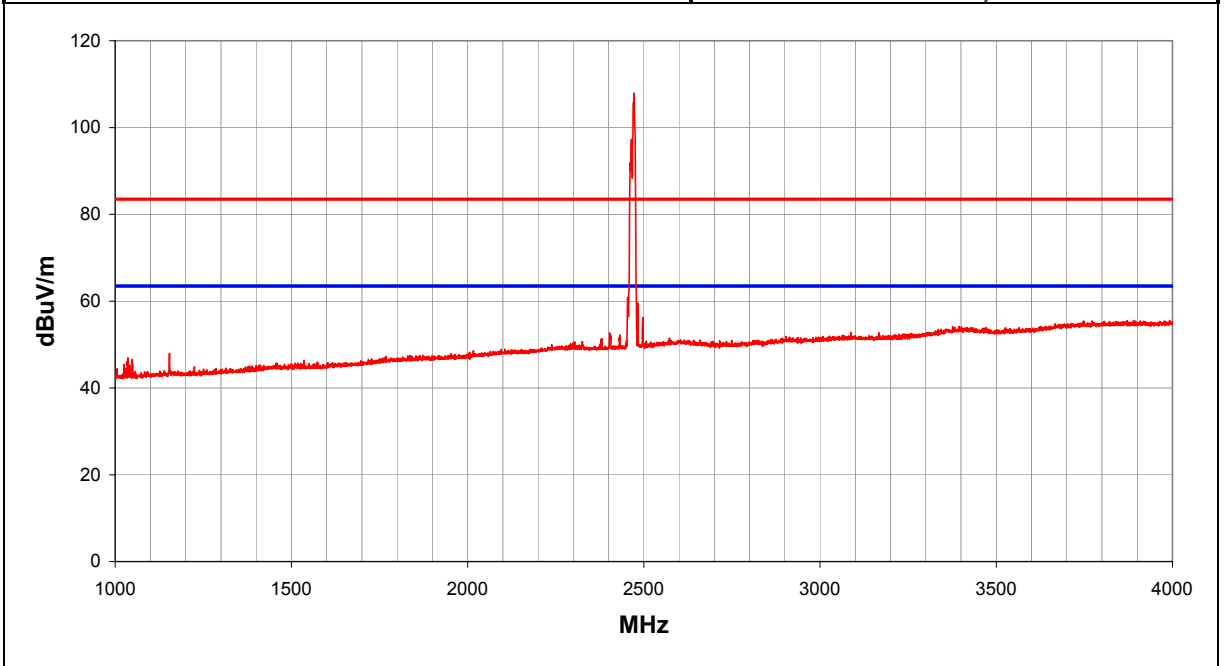
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
2471.817	76.0	0.0	0.0	30.5	1.4	0.0	H		0.0	107.9	83.5	24.4
2465.193	65.4	0.0	0.0	30.5	1.4	0.0	H		0.0	97.3	83.5	13.8
2463.155	58.4	0.0	0.0	30.5	1.4	0.0	V		0.0	90.3	83.5	6.8
2472.836	53.6	0.0	0.0	30.5	1.4	0.0	V		0.0	85.5	83.5	2.0
2453.984	29.0	0.0	0.0	30.4	1.4	0.0	H		0.0	60.9	83.5	-22.6
2483.026	27.6	0.0	0.0	30.5	1.4	0.0	H		0.0	59.6	83.5	-23.9
2497.293	24.2	0.0	0.0	30.6	1.4	0.0	H		0.0	56.2	83.5	-27.3
3889.784	19.7	0.0	0.0	34.1	1.8	0.0	H		0.0	55.6	83.5	-27.9
3871.441	19.7	0.0	0.0	34.1	1.7	0.0	V		0.0	55.5	83.5	-28.0
2477.931	21.4	0.0	0.0	30.5	1.4	0.0	V		0.0	53.4	83.5	-30.1
2403.031	21.0	0.0	0.0	30.3	1.4	0.0	H		0.0	52.7	83.5	-30.8
2452.455	20.5	0.0	0.0	30.4	1.4	0.0	V		0.0	52.4	83.5	-31.1
2432.074	20.4	0.0	0.0	30.4	1.4	0.0	H		0.0	52.2	83.5	-31.3
2572.862	19.3	0.0	0.0	30.7	1.5	0.0	H		0.0	51.5	83.5	-32.0
2380.613	19.8	0.0	0.0	30.2	1.4	0.0	H		0.0	51.4	83.5	-32.1
1153.873	21.5	0.0	0.0	25.3	1.1	0.0	V		0.0	47.9	83.5	-35.6
1036.173	21.0	0.0	0.0	24.8	1.1	0.0	H		0.0	46.9	83.5	-36.6
1048.402	20.6	0.0	0.0	24.9	1.1	0.0	H		0.0	46.6	83.5	-36.9
1535.667	18.4	0.0	0.0	26.8	1.2	0.0	V		0.0	46.4	83.5	-37.1
1025.473	19.5	0.0	0.0	24.8	1.1	0.0	H		0.0	45.4	83.5	-38.1

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/09/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 43%
Cust. Ref. No.:	Barometric Pressure 30.3
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Dipole Antennas, High Channel

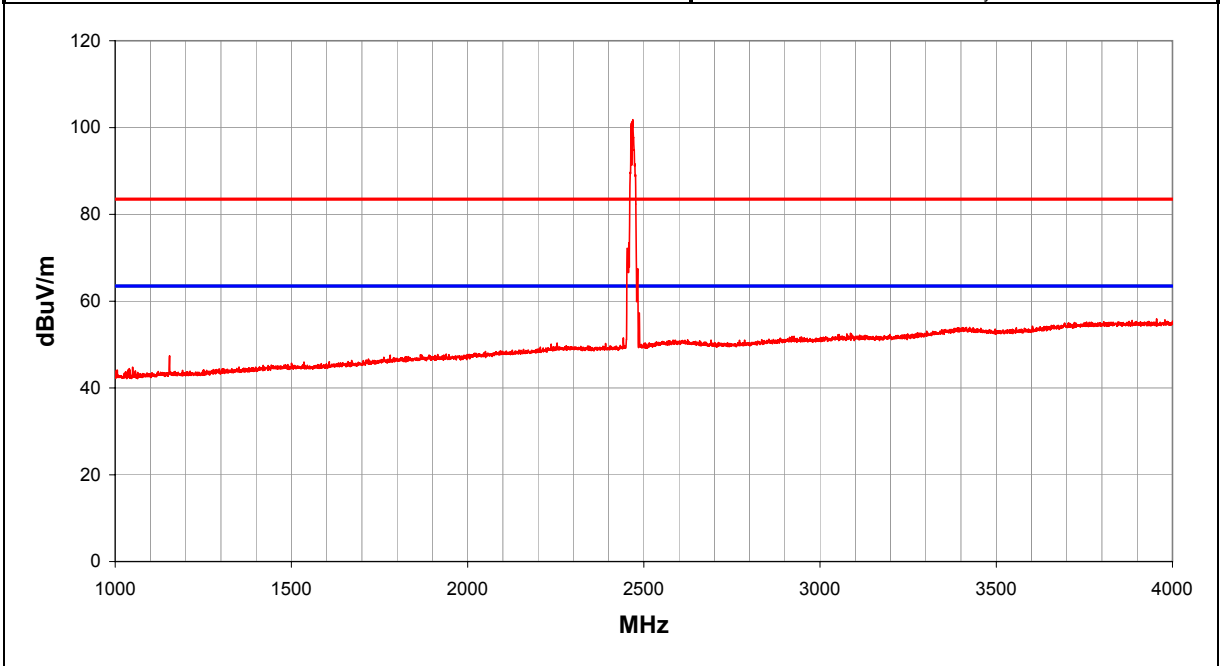
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
2468.760	69.9	0.0	0.0	30.5	1.4	0.0	V		0.0	101.8	83.5	18.3
2465.193	69.1	0.0	0.0	30.5	1.4	0.0	V		0.0	101.0	83.5	17.5
2467.231	65.0	0.0	0.0	30.5	1.4	0.0	H		0.0	96.9	83.5	13.4
2474.365	59.2	0.0	0.0	30.5	1.4	0.0	H		0.0	91.1	83.5	7.6
2464.174	57.3	0.0	0.0	30.5	1.4	0.0	H		0.0	89.2	83.5	5.7
2476.403	57.2	0.0	0.0	30.5	1.4	0.0	V		0.0	89.2	83.5	5.7
2460.607	49.4	0.0	0.0	30.5	1.4	0.0	H		0.0	81.3	83.5	-2.2
2458.060	41.5	0.0	0.0	30.5	1.4	0.0	V		0.0	73.4	83.5	-10.1
2452.965	40.3	0.0	0.0	30.4	1.4	0.0	V		0.0	72.2	83.5	-11.3
2483.026	35.5	0.0	0.0	30.5	1.4	0.0	V		0.0	67.5	83.5	-16.0
2452.965	28.7	0.0	0.0	30.4	1.4	0.0	H		0.0	60.6	83.5	-22.9
2487.103	25.3	0.0	0.0	30.6	1.4	0.0	V		0.0	57.3	83.5	-26.2
3955.003	19.8	0.0	0.0	34.3	1.8	0.0	V		0.0	55.9	83.5	-27.6
3978.441	19.5	0.0	0.0	34.4	1.8	0.0	H		0.0	55.7	83.5	-27.8
2483.536	23.0	0.0	0.0	30.5	1.4	0.0	H		0.0	55.0	83.5	-28.5
2441.755	19.7	0.0	0.0	30.4	1.4	0.0	V		0.0	51.5	83.5	-32.0
1154.382	21.0	0.0	0.0	25.3	1.1	0.0	V		0.0	47.4	83.5	-36.1
1049.421	18.8	0.0	0.0	24.9	1.1	0.0	V		0.0	44.8	83.5	-38.7
1049.421	18.7	0.0	0.0	24.9	1.1	0.0	H		0.0	44.7	83.5	-38.8
1039.740	18.5	0.0	0.0	24.9	1.1	0.0	H		0.0	44.5	83.5	-39.0

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/09/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 43%
Cust. Ref. No.:		Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Dipole Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

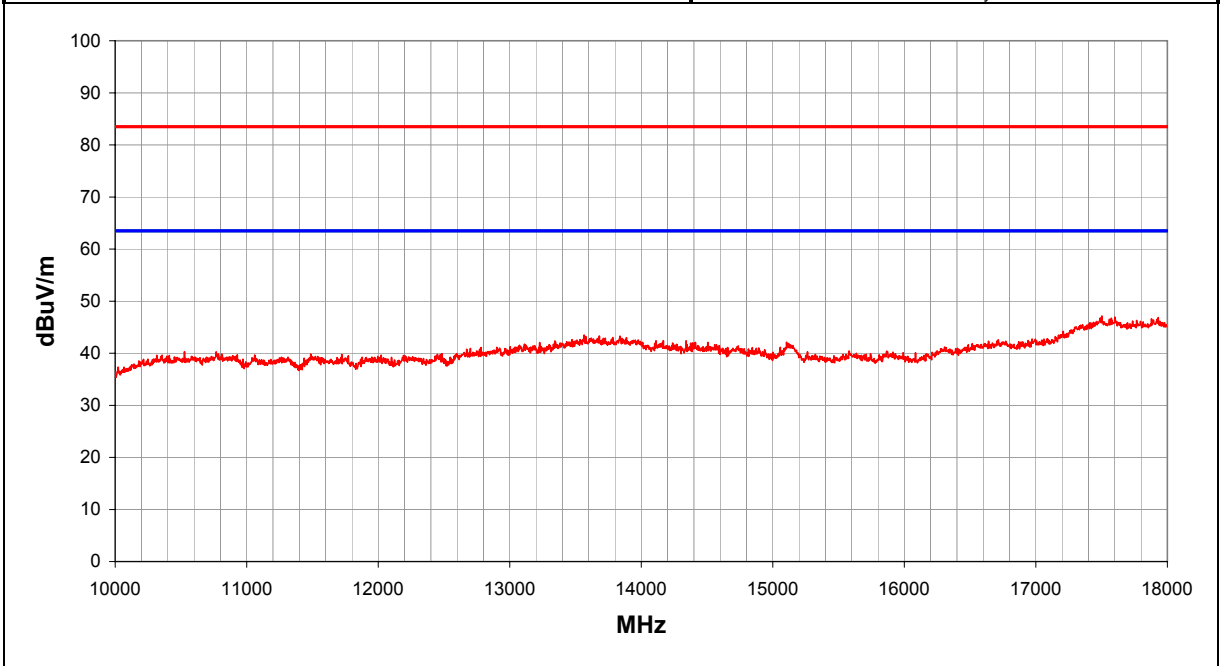
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17502.190	31.1	34.7	0.0	44.7	6.0	0.0	H		0.0	47.2	83.5	-36.3
17601.060	30.8	34.7	0.0	44.8	6.0	0.0	V		0.0	46.9	83.5	-36.6
17930.630	30.4	34.9	0.0	45.2	6.1	0.0	V		0.0	46.8	83.5	-36.7
17879.700	30.2	34.8	0.0	45.2	6.1	0.0	H		0.0	46.6	83.5	-36.9
13565.820	32.5	34.7	0.0	40.8	4.9	0.0	V		0.0	43.5	83.5	-40.0
13681.180	32.1	34.6	0.0	40.9	4.9	0.0	H		0.0	43.3	83.5	-40.2
13839.170	31.8	34.6	0.0	41.1	5.0	0.0	H		0.0	43.3	83.5	-40.2
14167.700	30.8	34.4	0.0	41.0	5.1	0.0	V		0.0	42.4	83.5	-41.1
14112.520	30.7	34.5	0.0	41.1	5.0	0.0	H		0.0	42.4	83.5	-41.1
14340.730	30.9	34.4	0.0	40.8	5.1	0.0	H		0.0	42.4	83.5	-41.1
15104.900	31.7	34.2	0.0	39.2	5.3	0.0	V		0.0	42.1	83.5	-41.4
14506.250	30.8	34.3	0.0	40.5	5.2	0.0	V		0.0	42.1	83.5	-41.4
14410.950	30.7	34.4	0.0	40.6	5.1	0.0	H		0.0	42.1	83.5	-41.4
13227.270	31.9	34.8	0.0	40.2	4.8	0.0	V		0.0	42.1	83.5	-41.4
14736.970	30.4	34.3	0.0	40.1	5.2	0.0	V		0.0	41.4	83.5	-42.1
15143.860	31.1	34.2	0.0	39.1	5.3	0.0	H		0.0	41.4	83.5	-42.1
15866.150	31.1	33.9	0.0	37.7	5.6	0.0	V		0.0	40.4	83.5	-43.1
15581.430	31.1	34.0	0.0	37.9	5.5	0.0	H		0.0	40.4	83.5	-43.1
15578.430	31.1	34.0	0.0	37.9	5.5	0.0	V		0.0	40.4	83.5	-43.1
10526.640	33.1	35.2	0.0	38.3	4.1	0.0	H		0.0	40.3	83.5	-43.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/09/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 43%
Cust. Ref. No.:	Barometric Pressure: 30.3
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Yagi Antennas, High Channel

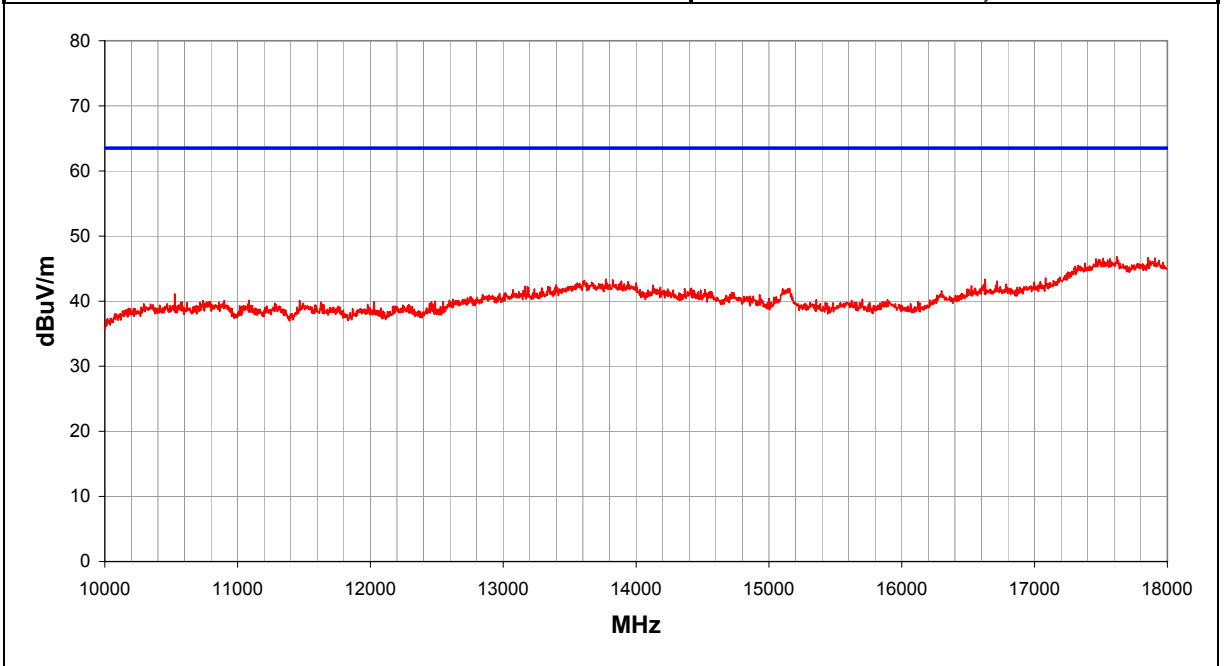
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
17619.040	30.7	34.7	0.0	44.8	6.0	0.0	H		0.0	46.9	83.5	-36.6
17855.730	30.3	34.8	0.0	45.1	6.1	0.0	H		0.0	46.7	83.5	-36.8
17517.170	30.5	34.7	0.0	44.7	6.0	0.0	V		0.0	46.6	83.5	-36.9
17082.740	30.3	34.4	0.0	41.8	5.9	0.0	H		0.0	43.6	83.5	-39.9
16627.330	31.5	34.2	0.0	40.3	5.8	0.0	V		0.0	43.4	83.5	-40.1
13771.460	32.0	34.6	0.0	41.0	5.0	0.0	V		0.0	43.4	83.5	-40.1
13889.330	31.5	34.5	0.0	41.2	5.0	0.0	H		0.0	43.1	83.5	-40.4
16717.210	31.0	34.3	0.0	40.5	5.8	0.0	V		0.0	43.1	83.5	-40.4
14127.570	30.8	34.5	0.0	41.1	5.0	0.0	H		0.0	42.5	83.5	-41.0
13164.570	32.3	34.9	0.0	40.0	4.8	0.0	V		0.0	42.3	83.5	-41.2
13182.130	32.2	34.9	0.0	40.1	4.8	0.0	H		0.0	42.2	83.5	-41.3
14415.970	30.6	34.4	0.0	40.6	5.1	0.0	V		0.0	42.0	83.5	-41.5
15155.850	31.7	34.2	0.0	39.1	5.3	0.0	V		0.0	42.0	83.5	-41.5
14365.810	30.5	34.4	0.0	40.7	5.1	0.0	H		0.0	41.9	83.5	-41.6
15143.860	31.6	34.2	0.0	39.1	5.3	0.0	H		0.0	41.9	83.5	-41.6
14518.790	30.5	34.3	0.0	40.5	5.2	0.0	H		0.0	41.8	83.5	-41.7
16300.730	30.9	34.1	0.0	39.0	5.7	0.0	H		0.0	41.6	83.5	-41.9
14719.410	30.3	34.3	0.0	40.1	5.2	0.0	V		0.0	41.3	83.5	-42.2
14734.460	30.3	34.3	0.0	40.1	5.2	0.0	H		0.0	41.3	83.5	-42.2
10526.640	33.9	35.2	0.0	38.3	4.1	0.0	V		0.0	41.1	83.5	-42.4

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

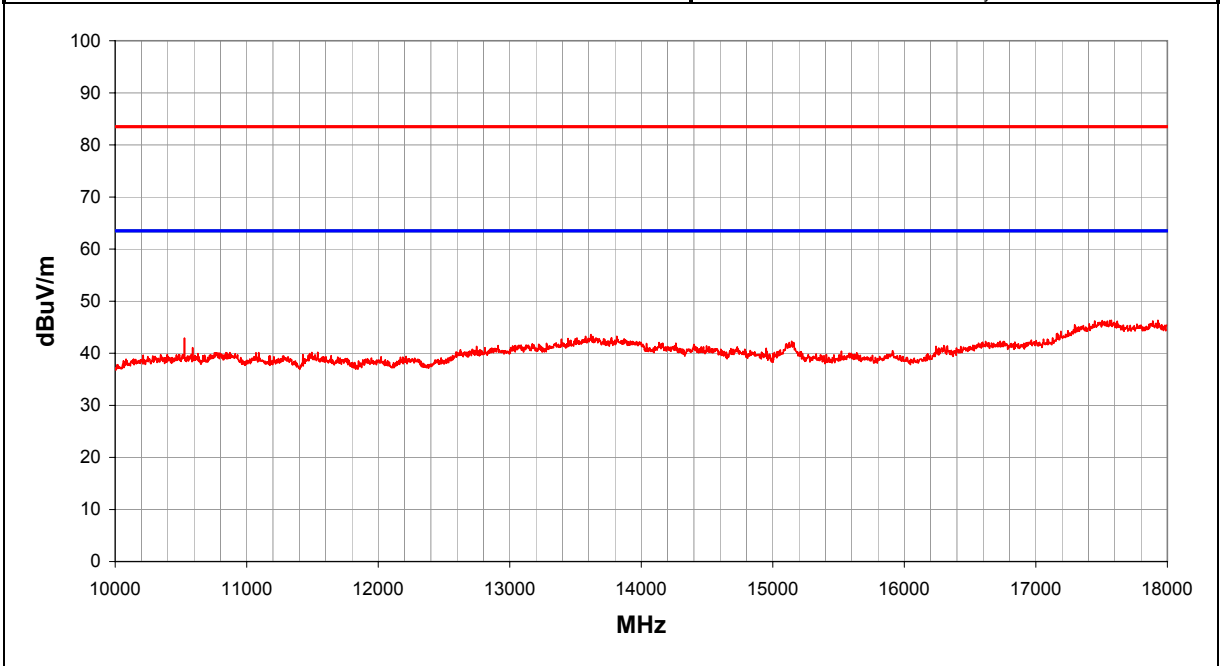
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17927.630	29.9	34.9	0.0	45.2	6.1	0.0	V		0.0	46.3	83.5	-37.2
17574.100	30.2	34.7	0.0	44.8	6.0	0.0	V		0.0	46.3	83.5	-37.2
17568.100	30.1	34.7	0.0	44.8	6.0	0.0	H		0.0	46.2	83.5	-37.3
13618.480	32.5	34.7	0.0	40.8	4.9	0.0	H		0.0	43.6	83.5	-39.9
13814.090	31.8	34.6	0.0	41.1	5.0	0.0	H		0.0	43.3	83.5	-40.2
13631.020	32.1	34.7	0.0	40.9	4.9	0.0	V		0.0	43.2	83.5	-40.3
13773.970	31.6	34.6	0.0	41.0	5.0	0.0	V		0.0	43.0	83.5	-40.5
10526.640	35.7	35.2	0.0	38.3	4.1	0.0	H		0.0	42.9	83.5	-40.6
15143.860	32.0	34.2	0.0	39.1	5.3	0.0	V		0.0	42.3	83.5	-41.2
14135.090	30.4	34.5	0.0	41.1	5.0	0.0	H		0.0	42.1	83.5	-41.4
15158.840	31.8	34.2	0.0	39.1	5.3	0.0	H		0.0	42.1	83.5	-41.4
14400.920	30.3	34.4	0.0	40.7	5.1	0.0	H		0.0	41.7	83.5	-41.8
16300.730	30.8	34.1	0.0	39.0	5.7	0.0	H		0.0	41.5	83.5	-42.0
16327.700	30.6	34.1	0.0	39.2	5.7	0.0	V		0.0	41.4	83.5	-42.1
14496.220	30.1	34.4	0.0	40.5	5.1	0.0	V		0.0	41.4	83.5	-42.1
14729.450	30.2	34.3	0.0	40.1	5.2	0.0	H		0.0	41.2	83.5	-42.3
10589.340	33.9	35.2	0.0	38.2	4.1	0.0	H		0.0	41.1	83.5	-42.4
14950.130	30.2	34.2	0.0	39.7	5.3	0.0	H		0.0	41.0	83.5	-42.5
15911.110	31.2	33.9	0.0	37.7	5.6	0.0	H		0.0	40.5	83.5	-43.0
15521.490	31.1	34.0	0.0	37.9	5.5	0.0	V		0.0	40.4	83.5	-43.1

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: <b>MPC13A-20</b>		Work Order: <b>INMC0042</b>
Serial Number:		Date: <b>10/10/02</b>
Customer: <b>INTERMEC Corporation</b>		Temperature: <b>75</b>
Attendees: <b>none</b>		Humidity: <b>38%</b>
Cust. Ref. No.:		Barometric Pressure: <b>30.01</b>
Tested by: <b>Greg Kiemel</b>	Power: <b>DC power on Enet</b>	Job Site: <b>EV01</b>

<b>TEST SPECIFICATIONS</b>	
Specification: <b>FCC 15.209</b>	Year: <b>Current 47CFR</b>
Method: <b>ANSI C63.4</b>	Year: <b>2000</b>

**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 Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

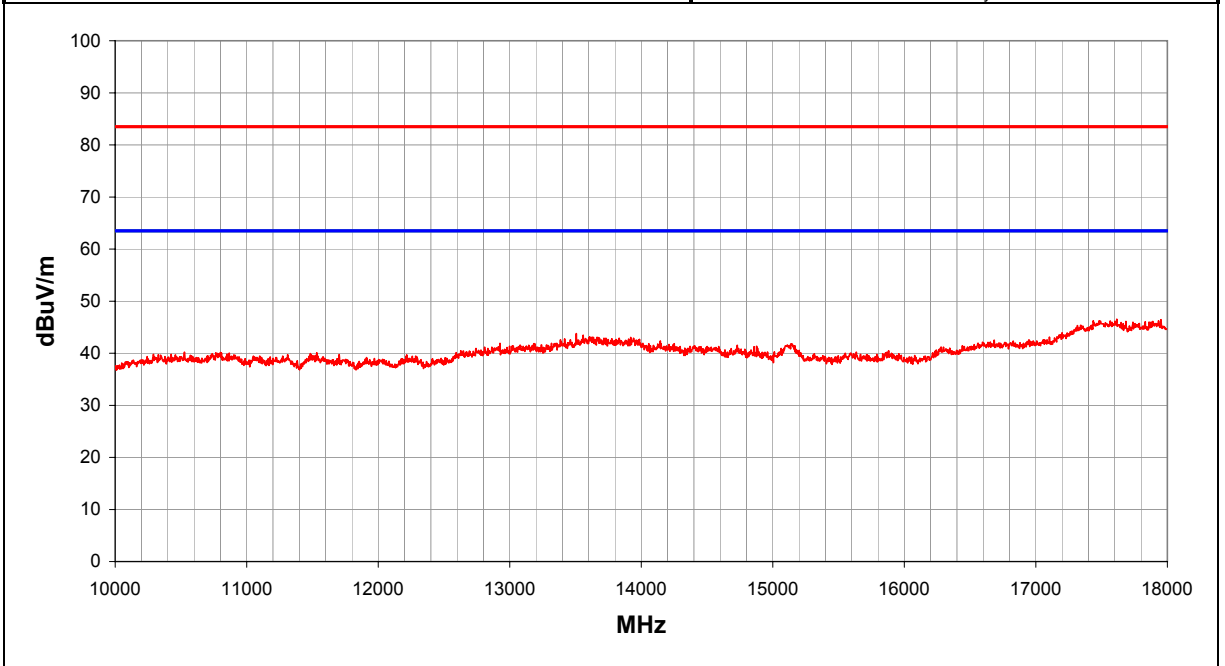
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17616.040	30.4	34.7	0.0	44.8	6.0	0.0	V		0.0	46.6	83.5	-36.9
17951.600	30.0	34.9	0.0	45.2	6.1	0.0	H		0.0	46.5	83.5	-37.0
17436.280	30.6	34.6	0.0	44.3	6.0	0.0	H		0.0	46.2	83.5	-37.3
17888.690	29.7	34.8	0.0	45.2	6.1	0.0	V		0.0	46.1	83.5	-37.4
13505.630	32.9	34.7	0.0	40.7	4.9	0.0	H		0.0	43.8	83.5	-39.7
13558.300	32.5	34.7	0.0	40.8	4.9	0.0	V		0.0	43.5	83.5	-40.0
13608.450	32.1	34.7	0.0	40.8	4.9	0.0	H		0.0	43.2	83.5	-40.3
13417.860	32.1	34.8	0.0	40.5	4.9	0.0	H		0.0	42.8	83.5	-40.7
16684.260	30.5	34.2	0.0	40.4	5.8	0.0	H		0.0	42.5	83.5	-41.0
14145.130	30.7	34.5	0.0	41.1	5.0	0.0	V		0.0	42.4	83.5	-41.1
12926.330	32.5	35.0	0.0	39.6	4.8	0.0	V		0.0	41.9	83.5	-41.6
13182.130	31.8	34.9	0.0	40.1	4.8	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
15149.850	31.4	34.2	0.0	39.1	5.3	0.0	V		0.0	41.7	83.5	-41.8
14729.450	30.5	34.3	0.0	40.1	5.2	0.0	V		0.0	41.5	83.5	-42.0
14877.410	30.5	34.2	0.0	39.8	5.3	0.0	V		0.0	41.3	83.5	-42.2
14370.830	29.9	34.4	0.0	40.7	5.1	0.0	V		0.0	41.3	83.5	-42.2
14857.340	30.4	34.2	0.0	39.9	5.3	0.0	H		0.0	41.3	83.5	-42.2
15881.140	31.2	33.9	0.0	37.7	5.6	0.0	H		0.0	40.5	83.5	-43.0
10526.640	33.0	35.2	0.0	38.3	4.1	0.0	H		0.0	40.2	83.5	-43.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Flat Panel Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

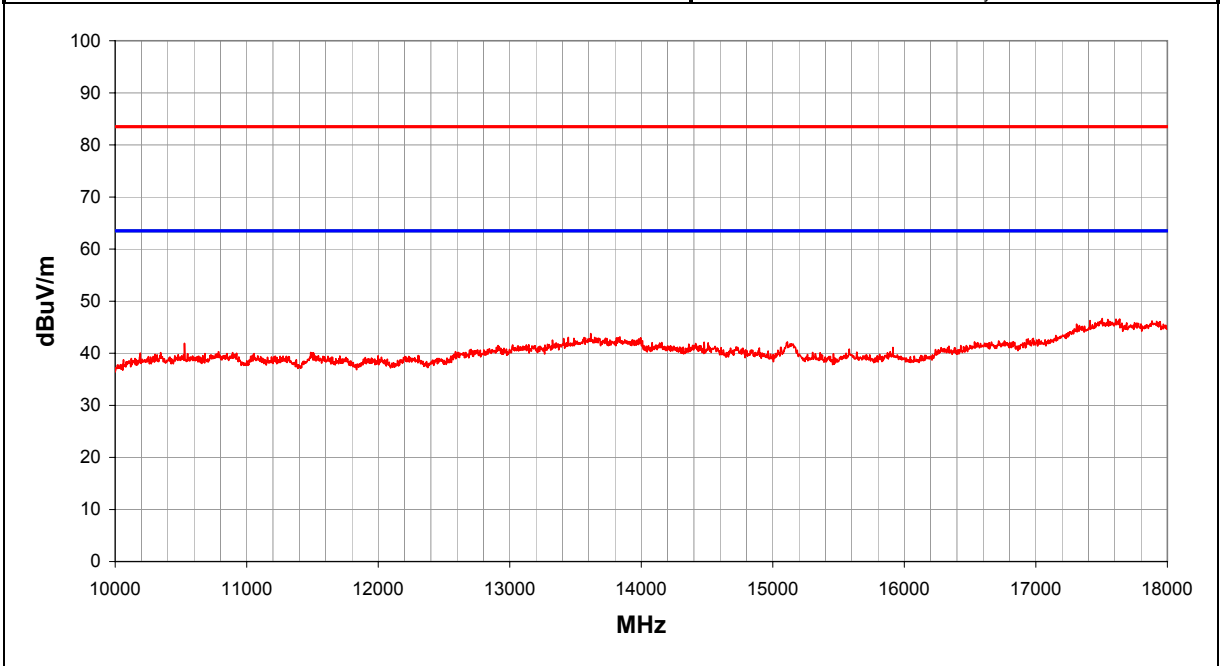
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17505.190	30.6	34.7	0.0	44.7	6.0	0.0	V		0.0	46.7	83.5	-36.8
17610.050	30.4	34.7	0.0	44.8	6.0	0.0	H		0.0	46.5	83.5	-37.0
17882.690	29.8	34.8	0.0	45.2	6.1	0.0	V		0.0	46.2	83.5	-37.3
17945.610	29.5	34.9	0.0	45.2	6.1	0.0	H		0.0	46.0	83.5	-37.5
13615.980	32.7	34.7	0.0	40.8	4.9	0.0	V		0.0	43.8	83.5	-39.7
13836.660	31.6	34.6	0.0	41.1	5.0	0.0	V		0.0	43.1	83.5	-40.4
13646.070	31.9	34.7	0.0	40.9	4.9	0.0	H		0.0	43.0	83.5	-40.5
13445.450	32.3	34.7	0.0	40.6	4.9	0.0	V		0.0	43.0	83.5	-40.5
13325.070	32.1	34.8	0.0	40.4	4.9	0.0	H		0.0	42.5	83.5	-41.0
15110.890	31.8	34.2	0.0	39.2	5.3	0.0	V		0.0	42.2	83.5	-41.3
14478.660	30.8	34.4	0.0	40.5	5.1	0.0	H		0.0	42.1	83.5	-41.4
14508.760	30.7	34.3	0.0	40.5	5.2	0.0	V		0.0	42.0	83.5	-41.5
10526.640	34.7	35.2	0.0	38.3	4.1	0.0	H		0.0	41.9	83.5	-41.6
15140.860	31.5	34.2	0.0	39.1	5.3	0.0	H		0.0	41.8	83.5	-41.7
12911.280	32.1	35.0	0.0	39.6	4.8	0.0	H		0.0	41.5	83.5	-42.0
14721.920	30.2	34.3	0.0	40.1	5.2	0.0	V		0.0	41.2	83.5	-42.3
14731.950	30.1	34.3	0.0	40.1	5.2	0.0	H		0.0	41.1	83.5	-42.4
15914.110	31.8	33.9	0.0	37.7	5.6	0.0	H		0.0	41.1	83.5	-42.4
14897.470	30.2	34.2	0.0	39.8	5.3	0.0	V		0.0	41.0	83.5	-42.5
15581.430	31.5	34.0	0.0	37.9	5.5	0.0	V		0.0	40.8	83.5	-42.7



**RADIATED EMISSIONS DATA SHEET**

NORTHWEST  
**EMC**

REV  
df3.00  
08/20/2002

EUT: <b>MPC13A-20</b>		Work Order: <b>INMC0042</b>
Serial Number:		Date: <b>10/10/02</b>
Customer: <b>INTERMEC Corporation</b>		Temperature: <b>75</b>
Attendees: <b>none</b>		Humidity: <b>38%</b>
Cust. Ref. No.:		Barometric Pressure: <b>30.01</b>
Tested by: <b>Greg Kiemel</b>	Power: <b>DC power on Enet</b>	Job Site: <b>EV01</b>

<b>TEST SPECIFICATIONS</b>	
Specification: <b>FCC 15.209</b>	Year: <b>Current 47CFR</b>
Method: <b>ANSI C63.4</b>	Year: <b>2000</b>

**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**

Omni Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

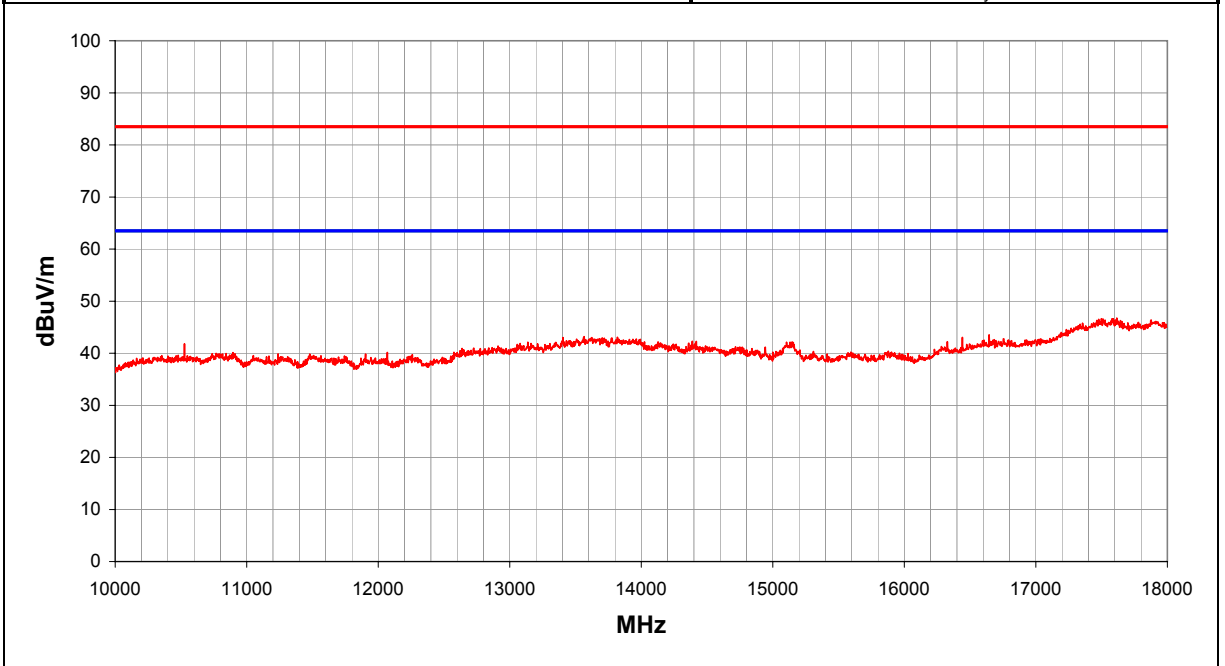
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17616.040	30.6	34.7	0.0	44.8	6.0	0.0	H		0.0	46.8	83.5	-36.7
17876.700	30.0	34.8	0.0	45.2	6.1	0.0	H		0.0	46.4	83.5	-37.1
17601.060	30.2	34.7	0.0	44.8	6.0	0.0	V		0.0	46.3	83.5	-37.2
16645.310	31.6	34.2	0.0	40.3	5.8	0.0	V		0.0	43.5	83.5	-40.0
13565.820	32.2	34.7	0.0	40.8	4.9	0.0	H		0.0	43.2	83.5	-40.3
13819.110	31.6	34.6	0.0	41.1	5.0	0.0	V		0.0	43.1	83.5	-40.4
16441.570	31.7	34.1	0.0	39.7	5.7	0.0	H		0.0	43.0	83.5	-40.5
14388.380	30.9	34.4	0.0	40.7	5.1	0.0	H		0.0	42.3	83.5	-41.2
16327.700	31.4	34.1	0.0	39.2	5.7	0.0	H		0.0	42.2	83.5	-41.3
15146.860	31.9	34.2	0.0	39.1	5.3	0.0	H		0.0	42.2	83.5	-41.3
14127.570	30.5	34.5	0.0	41.1	5.0	0.0	H		0.0	42.2	83.5	-41.3
13136.980	32.2	34.9	0.0	40.0	4.8	0.0	H		0.0	42.1	83.5	-41.4
15104.900	31.7	34.2	0.0	39.2	5.3	0.0	V		0.0	42.1	83.5	-41.4
14360.800	30.5	34.4	0.0	40.7	5.1	0.0	V		0.0	41.9	83.5	-41.6
13162.060	31.9	34.9	0.0	40.0	4.8	0.0	V		0.0	41.9	83.5	-41.6
10526.640	34.6	35.2	0.0	38.3	4.1	0.0	H		0.0	41.8	83.5	-41.7
14716.910	30.2	34.3	0.0	40.1	5.2	0.0	H		0.0	41.2	83.5	-42.3
14749.510	30.2	34.3	0.0	40.1	5.2	0.0	V		0.0	41.2	83.5	-42.3
14942.610	30.4	34.2	0.0	39.7	5.3	0.0	V		0.0	41.2	83.5	-42.3
15878.140	31.1	33.9	0.0	37.7	5.6	0.0	H		0.0	40.4	83.5	-43.1

**RADIATED EMISSIONS DATA SHEET**

REV  
df3.00  
08/20/2002

<b>EUT:</b> MPC13A-20		<b>Work Order:</b> INMC0042
<b>Serial Number:</b>		<b>Date:</b> 10/10/02
<b>Customer:</b> INTERMEC Corporation		<b>Temperature:</b> 75
<b>Attendees:</b> none		<b>Humidity:</b> 38%
<b>Cust. Ref. No.:</b>		<b>Barometric Pressure:</b> 30.01
<b>Tested by:</b> Greg Kiemel	<b>Power:</b> DC power on Enet	<b>Job Site:</b> EV01

<b>TEST SPECIFICATIONS</b>	
<b>Specification:</b> FCC 15.209	<b>Year:</b> Current 47CFR
<b>Method:</b> ANSI C63.4	<b>Year:</b> 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**

Yagi Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

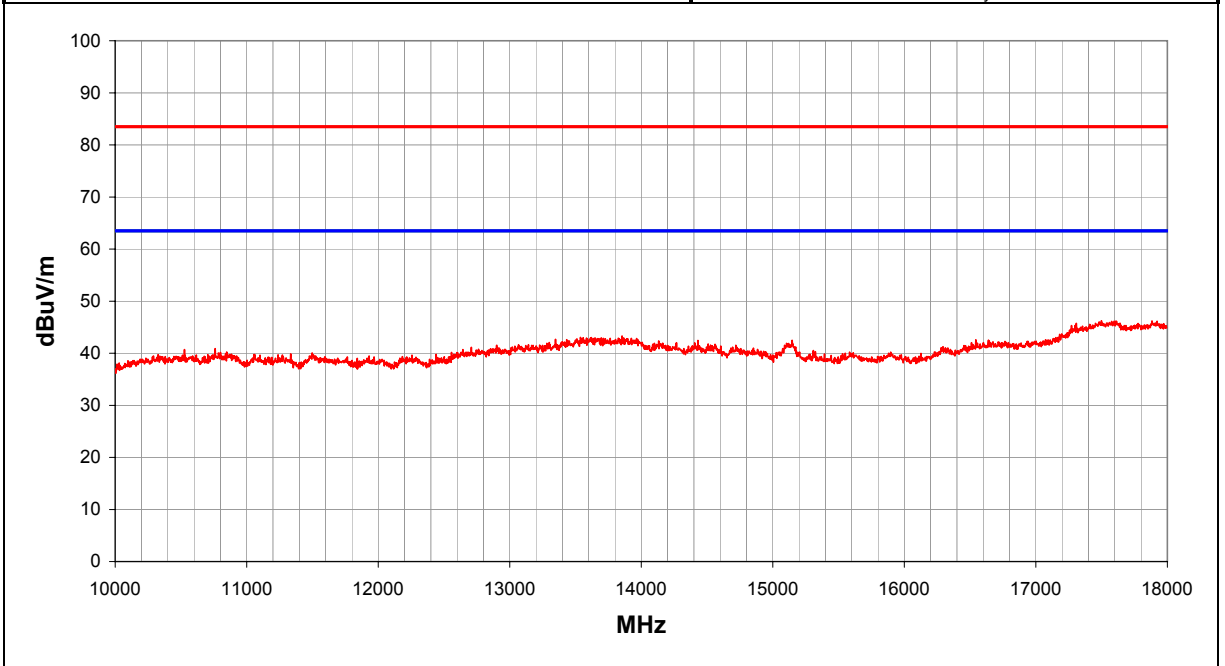
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
<b>Evaluation</b>	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)
17499.190	30.2	34.6	0.0	44.7	6.0	0.0	H		0.0	46.2	83.5	-37.3
17882.690	29.8	34.8	0.0	45.2	6.1	0.0	H		0.0	46.2	83.5	-37.3
17607.050	30.0	34.7	0.0	44.8	6.0	0.0	V		0.0	46.1	83.5	-37.4
17921.640	29.7	34.9	0.0	45.2	6.1	0.0	V		0.0	46.1	83.5	-37.4
13854.220	31.8	34.6	0.0	41.1	5.0	0.0	H		0.0	43.3	83.5	-40.2
13538.230	32.1	34.7	0.0	40.7	4.9	0.0	V		0.0	43.0	83.5	-40.5
13347.640	32.2	34.8	0.0	40.4	4.9	0.0	H		0.0	42.7	83.5	-40.8
16543.440	30.9	34.2	0.0	40.1	5.8	0.0	H		0.0	42.6	83.5	-40.9
16639.310	30.6	34.2	0.0	40.3	5.8	0.0	V		0.0	42.5	83.5	-41.0
15146.860	32.2	34.2	0.0	39.1	5.3	0.0	H		0.0	42.5	83.5	-41.0
14431.020	31.1	34.4	0.0	40.6	5.1	0.0	H		0.0	42.5	83.5	-41.0
14132.590	30.7	34.5	0.0	41.1	5.0	0.0	V		0.0	42.4	83.5	-41.1
14405.940	30.6	34.4	0.0	40.7	5.1	0.0	V		0.0	42.0	83.5	-41.5
15104.900	31.5	34.2	0.0	39.2	5.3	0.0	V		0.0	41.9	83.5	-41.6
14508.760	30.5	34.3	0.0	40.5	5.2	0.0	V		0.0	41.8	83.5	-41.7
14561.420	30.5	34.3	0.0	40.4	5.2	0.0	H		0.0	41.7	83.5	-41.8
12901.250	32.2	35.0	0.0	39.6	4.8	0.0	H		0.0	41.5	83.5	-42.0
14719.410	30.5	34.3	0.0	40.1	5.2	0.0	H		0.0	41.5	83.5	-42.0
12898.740	32.1	35.0	0.0	39.6	4.8	0.0	V		0.0	41.4	83.5	-42.1
10759.870	33.8	35.2	0.0	38.1	4.2	0.0	H		0.0	40.9	83.5	-42.6

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Dipole Antennas, Mid Channel

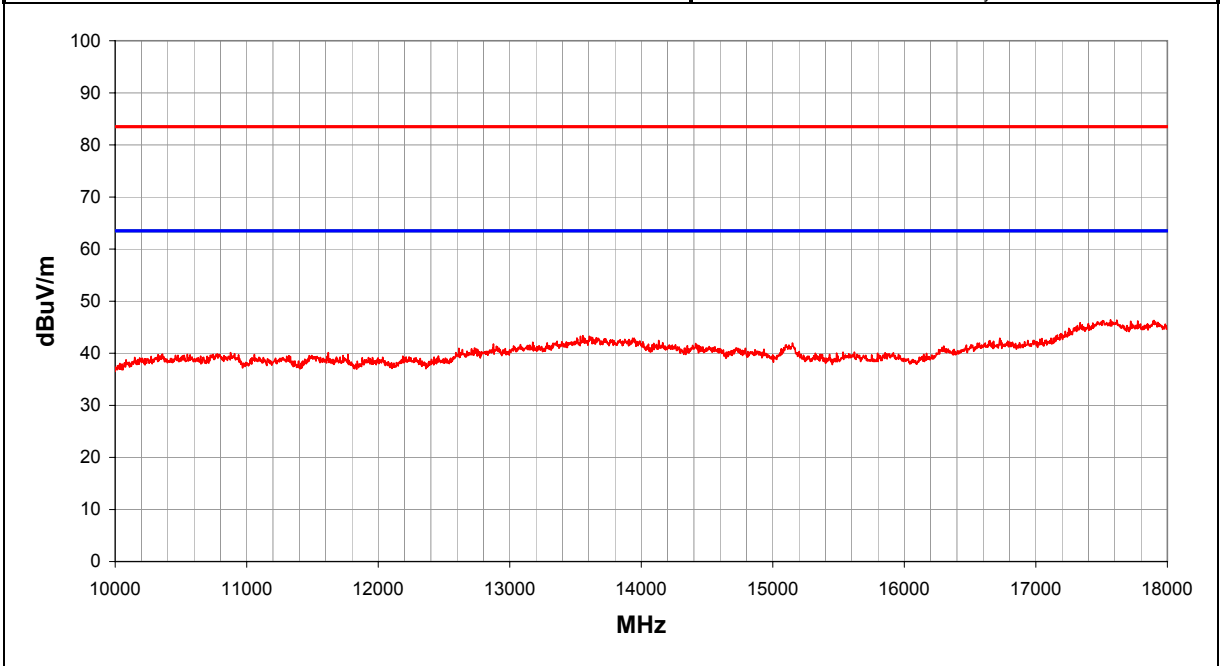
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
17568.100	30.3	34.7	0.0	44.8	6.0	0.0	H		0.0	46.4	83.5	-37.1
17616.040	30.2	34.7	0.0	44.8	6.0	0.0	V		0.0	46.4	83.5	-37.1
17897.670	29.9	34.8	0.0	45.2	6.1	0.0	H		0.0	46.3	83.5	-37.2
17891.680	29.8	34.8	0.0	45.2	6.1	0.0	V		0.0	46.2	83.5	-37.3
17774.830	29.9	34.8	0.0	45.0	6.1	0.0	H		0.0	46.2	83.5	-37.3
13555.790	32.4	34.7	0.0	40.8	4.9	0.0	V		0.0	43.4	83.5	-40.1
13618.480	32.0	34.7	0.0	40.8	4.9	0.0	H		0.0	43.1	83.5	-40.4
16726.200	30.8	34.3	0.0	40.5	5.8	0.0	V		0.0	42.9	83.5	-40.6
14132.590	30.8	34.5	0.0	41.1	5.0	0.0	V		0.0	42.5	83.5	-41.0
16651.300	30.5	34.2	0.0	40.4	5.8	0.0	H		0.0	42.4	83.5	-41.1
15149.850	31.7	34.2	0.0	39.1	5.3	0.0	V		0.0	42.0	83.5	-41.5
14413.460	30.5	34.4	0.0	40.6	5.1	0.0	V		0.0	41.9	83.5	-41.6
12876.170	32.5	35.0	0.0	39.5	4.8	0.0	V		0.0	41.8	83.5	-41.7
14413.460	30.4	34.4	0.0	40.6	5.1	0.0	H		0.0	41.8	83.5	-41.7
15152.850	31.2	34.2	0.0	39.1	5.3	0.0	H		0.0	41.5	83.5	-42.0
12898.740	32.0	35.0	0.0	39.6	4.8	0.0	H		0.0	41.3	83.5	-42.2
14721.920	30.0	34.3	0.0	40.1	5.2	0.0	V		0.0	41.0	83.5	-42.5
12733.230	32.0	35.1	0.0	39.3	4.7	0.0	V		0.0	41.0	83.5	-42.5
12612.850	32.2	35.1	0.0	39.2	4.7	0.0	V		0.0	41.0	83.5	-42.5
15533.480	30.9	34.0	0.0	37.9	5.5	0.0	H		0.0	40.2	83.5	-43.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Dipole Antennas, Low Channel

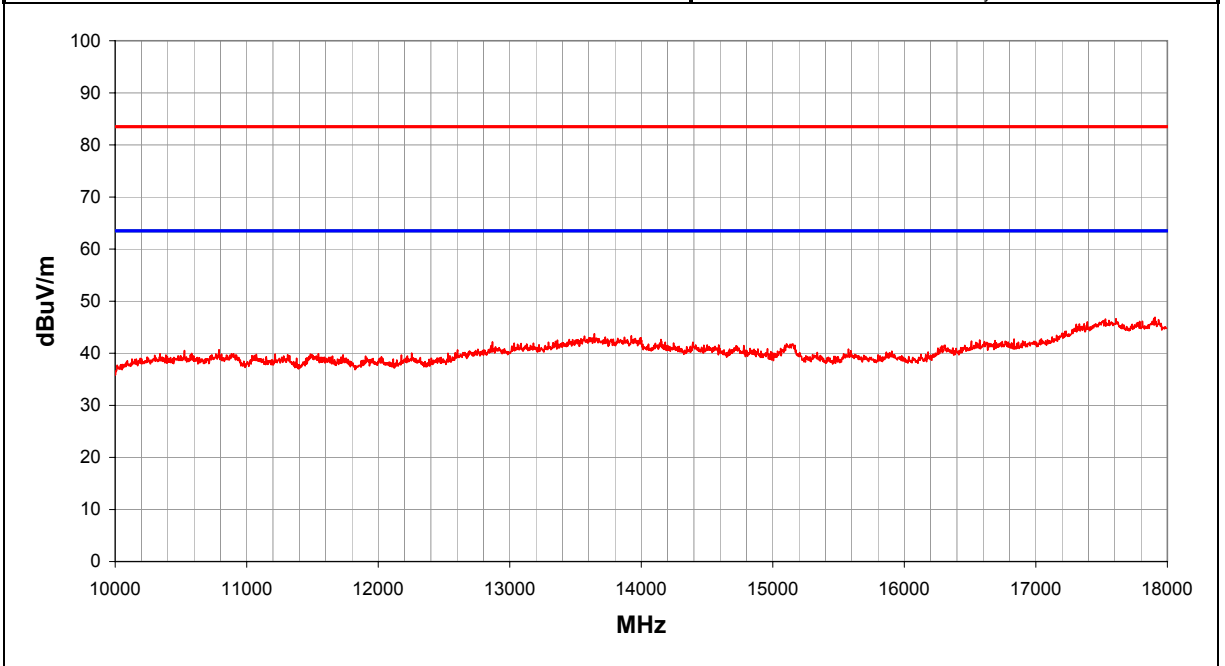
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
17906.660	30.5	34.9	0.0	45.2	6.1	0.0	H		0.0	46.9	83.5	-36.6
17897.670	30.3	34.8	0.0	45.2	6.1	0.0	V		0.0	46.7	83.5	-36.8
17610.050	30.5	34.7	0.0	44.8	6.0	0.0	H		0.0	46.6	83.5	-36.9
17529.150	30.5	34.7	0.0	44.7	6.0	0.0	V		0.0	46.6	83.5	-36.9
13643.560	32.6	34.7	0.0	40.9	4.9	0.0	H		0.0	43.7	83.5	-39.8
13924.440	31.7	34.5	0.0	41.2	5.0	0.0	V		0.0	43.4	83.5	-40.1
13568.330	32.3	34.7	0.0	40.8	4.9	0.0	V		0.0	43.3	83.5	-40.2
13871.770	31.5	34.6	0.0	41.1	5.0	0.0	H		0.0	43.1	83.5	-40.4
16834.060	30.4	34.3	0.0	40.8	5.9	0.0	H		0.0	42.7	83.5	-40.8
14150.140	31.0	34.5	0.0	41.1	5.0	0.0	V		0.0	42.6	83.5	-40.9
16573.400	30.8	34.2	0.0	40.2	5.8	0.0	H		0.0	42.6	83.5	-40.9
16510.480	30.7	34.2	0.0	40.0	5.8	0.0	V		0.0	42.3	83.5	-41.2
14155.160	30.6	34.5	0.0	41.1	5.0	0.0	H		0.0	42.2	83.5	-41.3
12868.650	32.9	35.0	0.0	39.5	4.8	0.0	H		0.0	42.2	83.5	-41.3
13294.980	31.8	34.8	0.0	40.3	4.9	0.0	V		0.0	42.1	83.5	-41.4
14393.400	30.7	34.4	0.0	40.7	5.1	0.0	H		0.0	42.1	83.5	-41.4
13034.160	32.3	34.9	0.0	39.8	4.8	0.0	H		0.0	41.9	83.5	-41.6
13086.830	32.1	34.9	0.0	39.9	4.8	0.0	V		0.0	41.9	83.5	-41.6
15104.900	31.4	34.2	0.0	39.2	5.3	0.0	V		0.0	41.8	83.5	-41.7
15149.850	31.5	34.2	0.0	39.1	5.3	0.0	H		0.0	41.8	83.5	-41.7

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

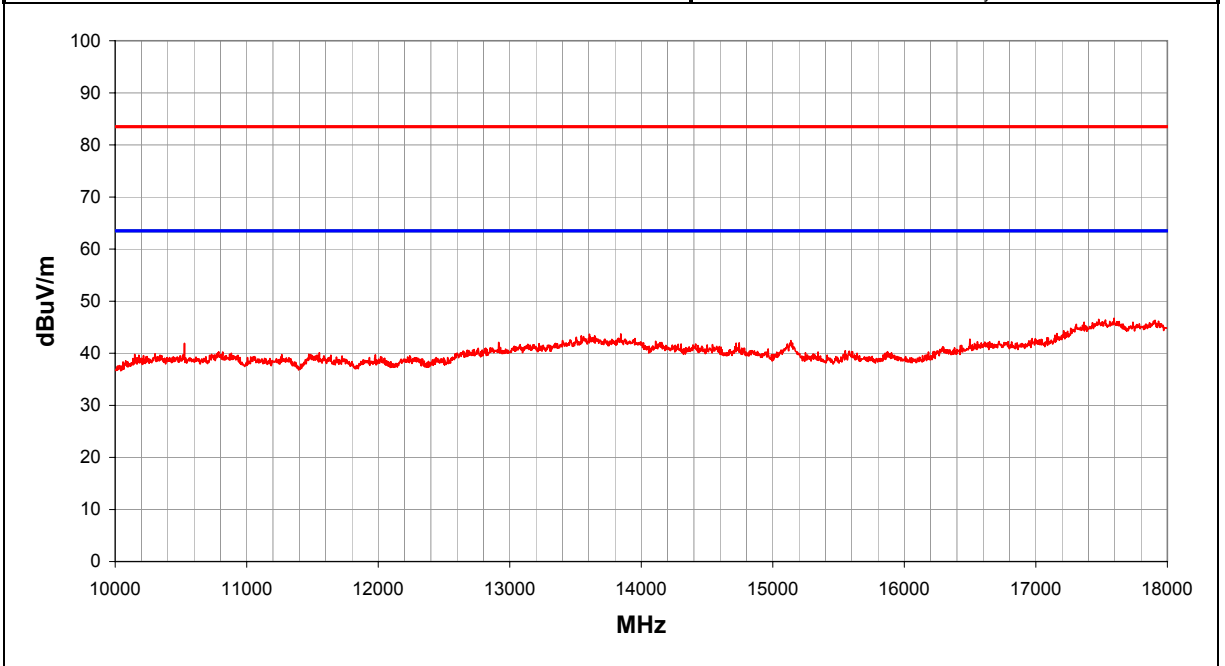
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
17595.070	30.6	34.7	0.0	44.8	6.0	0.0	V		0.0	46.7	83.5	-36.8
17478.220	30.6	34.6	0.0	44.5	6.0	0.0	H		0.0	46.5	83.5	-37.0
17906.660	29.9	34.9	0.0	45.2	6.1	0.0	H		0.0	46.3	83.5	-37.2
13844.190	32.2	34.6	0.0	41.1	5.0	0.0	V		0.0	43.7	83.5	-39.8
13605.950	32.6	34.7	0.0	40.8	4.9	0.0	V		0.0	43.7	83.5	-39.8
13543.250	32.4	34.7	0.0	40.8	4.9	0.0	H		0.0	43.4	83.5	-40.1
13505.630	32.2	34.7	0.0	40.7	4.9	0.0	H		0.0	43.1	83.5	-40.4
16498.500	31.1	34.1	0.0	40.0	5.7	0.0	H		0.0	42.7	83.5	-40.8
15137.870	32.1	34.2	0.0	39.1	5.3	0.0	V		0.0	42.4	83.5	-41.1
14110.020	30.6	34.5	0.0	41.1	5.0	0.0	H		0.0	42.3	83.5	-41.2
12916.300	32.7	35.0	0.0	39.6	4.8	0.0	V		0.0	42.1	83.5	-41.4
14744.490	31.0	34.3	0.0	40.1	5.2	0.0	H		0.0	42.0	83.5	-41.5
10526.640	34.7	35.2	0.0	38.3	4.1	0.0	H		0.0	41.9	83.5	-41.6
15131.870	31.5	34.2	0.0	39.2	5.3	0.0	H		0.0	41.8	83.5	-41.7
14413.460	30.4	34.4	0.0	40.6	5.1	0.0	V		0.0	41.8	83.5	-41.7
14711.890	30.2	34.3	0.0	40.1	5.2	0.0	V		0.0	41.2	83.5	-42.3
15551.460	31.2	34.0	0.0	37.9	5.5	0.0	H		0.0	40.5	83.5	-43.0
15578.430	31.0	34.0	0.0	37.9	5.5	0.0	V		0.0	40.3	83.5	-43.2
15872.150	31.0	33.9	0.0	37.7	5.6	0.0	V		0.0	40.3	83.5	-43.2
10787.450	33.2	35.2	0.0	38.1	4.2	0.0	H		0.0	40.3	83.5	-43.2

**RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

<b>EUT:</b> MPC13A-20		<b>Work Order:</b> INMC0042	
<b>Serial Number:</b>		<b>Date:</b> 10/10/02	
<b>Customer:</b> INTERMEC Corporation		<b>Temperature:</b> 75	
<b>Attendees:</b> none		<b>Humidity:</b> 38%	
<b>Cust. Ref. No.:</b>		<b>Barometric Pressure:</b> 30.01	
<b>Tested by:</b> Greg Kiemel		<b>Power:</b> DC power on Enet	
		<b>Job Site:</b> EV01	

<b>TEST SPECIFICATIONS</b>	
<b>Specification:</b> FCC 15.209	<b>Year:</b> Current 47CFR
<b>Method:</b> ANSI C63.4	<b>Year:</b> 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**

Omni Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

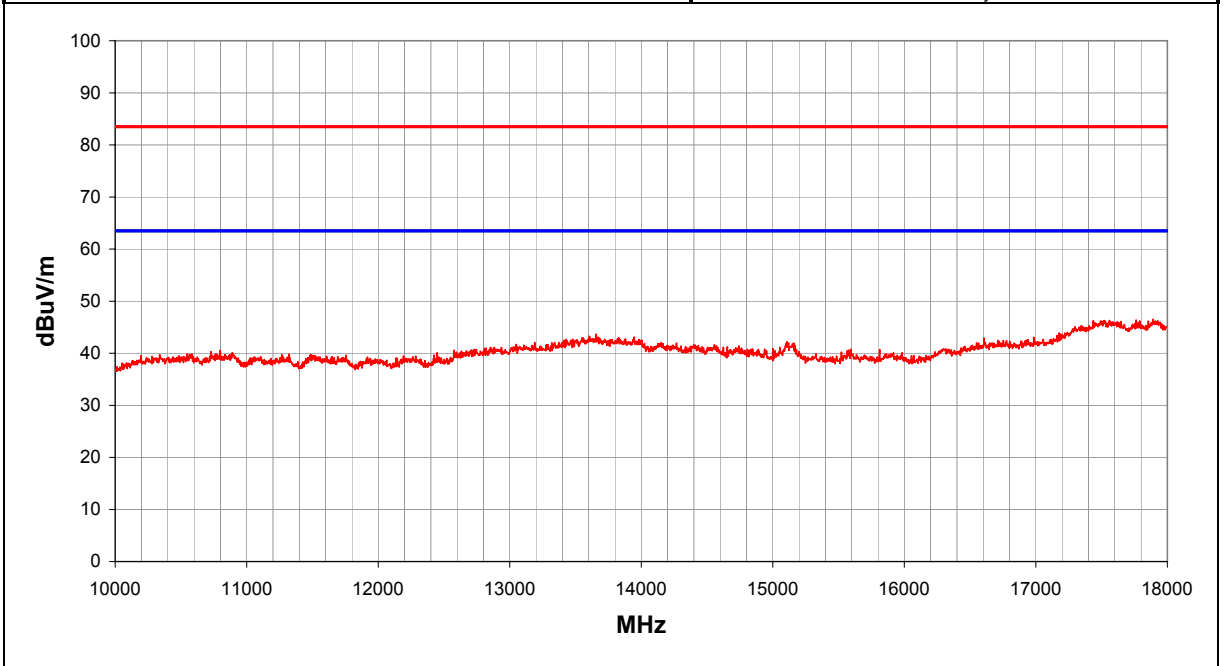
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
<b>Evaluation</b>	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)
17891.680	30.1	34.8	0.0	45.2	6.1	0.0	H		0.0	46.5	83.5	-37.0
17762.850	30.1	34.8	0.0	45.0	6.1	0.0	V		0.0	46.4	83.5	-37.1
17559.120	30.2	34.7	0.0	44.8	6.0	0.0	V		0.0	46.3	83.5	-37.2
17517.170	30.2	34.7	0.0	44.7	6.0	0.0	H		0.0	46.3	83.5	-37.2
13656.100	32.5	34.7	0.0	40.9	4.9	0.0	H		0.0	43.7	83.5	-39.8
13947.010	31.4	34.5	0.0	41.2	5.0	0.0	H		0.0	43.1	83.5	-40.4
13671.150	31.9	34.6	0.0	40.9	4.9	0.0	V		0.0	43.1	83.5	-40.4
16606.360	31.1	34.2	0.0	40.3	5.8	0.0	V		0.0	42.9	83.5	-40.6
16711.220	30.4	34.3	0.0	40.5	5.8	0.0	H		0.0	42.5	83.5	-41.0
15107.890	31.8	34.2	0.0	39.2	5.3	0.0	H		0.0	42.2	83.5	-41.3
13189.650	32.0	34.9	0.0	40.1	4.8	0.0	V		0.0	42.1	83.5	-41.4
15119.880	31.6	34.2	0.0	39.2	5.3	0.0	V		0.0	42.0	83.5	-41.5
14741.980	30.4	34.3	0.0	40.1	5.2	0.0	H		0.0	41.4	83.5	-42.1
14654.210	30.1	34.3	0.0	40.2	5.2	0.0	V		0.0	41.2	83.5	-42.3
15053.950	30.6	34.2	0.0	39.4	5.3	0.0	V		0.0	41.1	83.5	-42.4
15000.000	30.2	34.2	0.0	39.6	5.3	0.0	H		0.0	40.9	83.5	-42.6
15593.420	31.5	34.0	0.0	37.8	5.5	0.0	V		0.0	40.8	83.5	-42.7
15812.210	31.4	34.0	0.0	37.7	5.5	0.0	H		0.0	40.7	83.5	-42.8
15578.430	31.3	34.0	0.0	37.9	5.5	0.0	H		0.0	40.6	83.5	-42.9
10797.480	33.5	35.2	0.0	38.1	4.2	0.0	V		0.0	40.6	83.5	-42.9

NORTHWEST **EMC** **RADIATED EMISSIONS DATA SHEET** REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Greg Kiemel	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat Panel Antennas, Low Channel

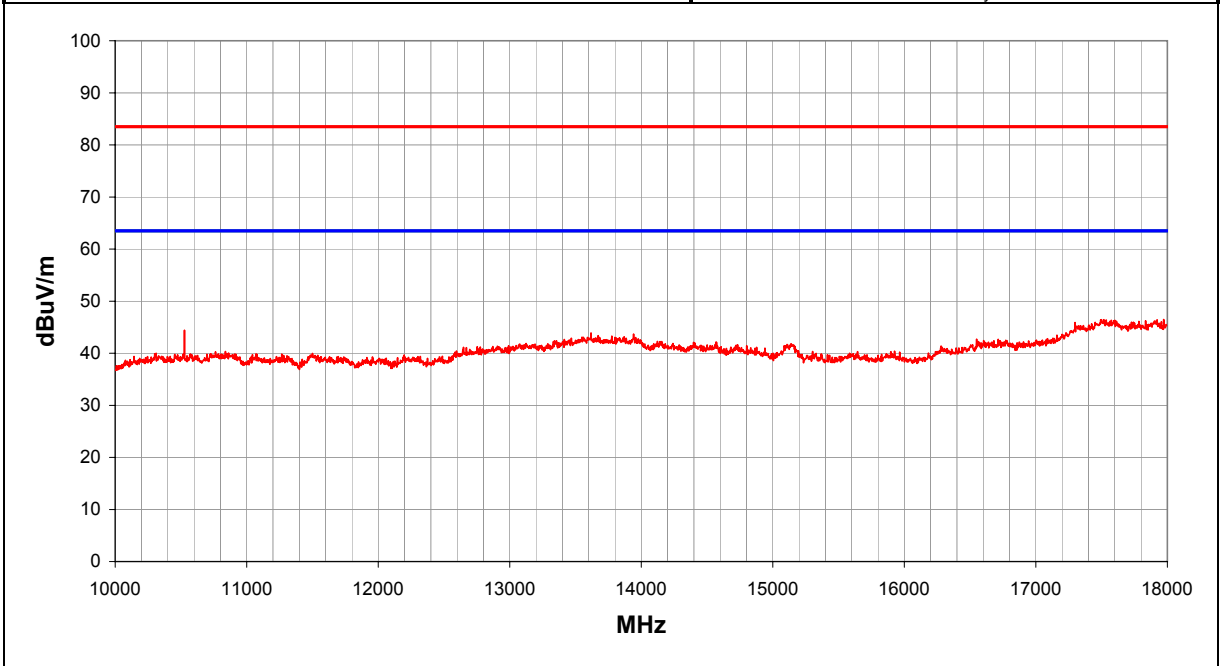
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
17972.580	30.0	34.9	0.0	45.3	6.1	0.0	V		0.0	46.5	83.5	-37.0
17517.170	30.4	34.7	0.0	44.7	6.0	0.0	V		0.0	46.5	83.5	-37.0
17921.640	30.0	34.9	0.0	45.2	6.1	0.0	H		0.0	46.4	83.5	-37.1
17601.060	30.2	34.7	0.0	44.8	6.0	0.0	H		0.0	46.3	83.5	-37.2
17298.460	31.2	34.5	0.0	43.3	6.0	0.0	H		0.0	45.9	83.5	-37.6
10526.640	37.2	35.2	0.0	38.3	4.1	0.0	H		0.0	44.4	83.5	-39.1
13618.480	32.8	34.7	0.0	40.8	4.9	0.0	V		0.0	43.9	83.5	-39.6
13941.990	32.0	34.5	0.0	41.2	5.0	0.0	H		0.0	43.7	83.5	-39.8
16549.430	31.0	34.2	0.0	40.1	5.8	0.0	H		0.0	42.7	83.5	-40.8
16774.140	30.1	34.3	0.0	40.7	5.8	0.0	V		0.0	42.3	83.5	-41.2
14122.550	30.6	34.5	0.0	41.1	5.0	0.0	H		0.0	42.3	83.5	-41.2
14566.440	30.9	34.3	0.0	40.4	5.2	0.0	V		0.0	42.1	83.5	-41.4
14571.450	30.9	34.3	0.0	40.4	5.2	0.0	H		0.0	42.1	83.5	-41.4
15137.870	31.5	34.2	0.0	39.1	5.3	0.0	H		0.0	41.8	83.5	-41.7
15140.860	31.5	34.2	0.0	39.1	5.3	0.0	V		0.0	41.8	83.5	-41.7
16279.750	30.8	34.0	0.0	38.9	5.7	0.0	H		0.0	41.4	83.5	-42.1
14731.950	30.2	34.3	0.0	40.1	5.2	0.0	H		0.0	41.2	83.5	-42.3
10526.640	33.5	35.2	0.0	38.3	4.1	0.0	V		0.0	40.7	83.5	-42.8
15926.090	31.1	33.9	0.0	37.6	5.6	0.0	H		0.0	40.4	83.5	-43.1
15302.700	30.5	34.1	0.0	38.6	5.4	0.0	H		0.0	40.4	83.5	-43.1

**EMC RADIATED EMISSIONS DATA SHEET**

REV df3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Flat Panel Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

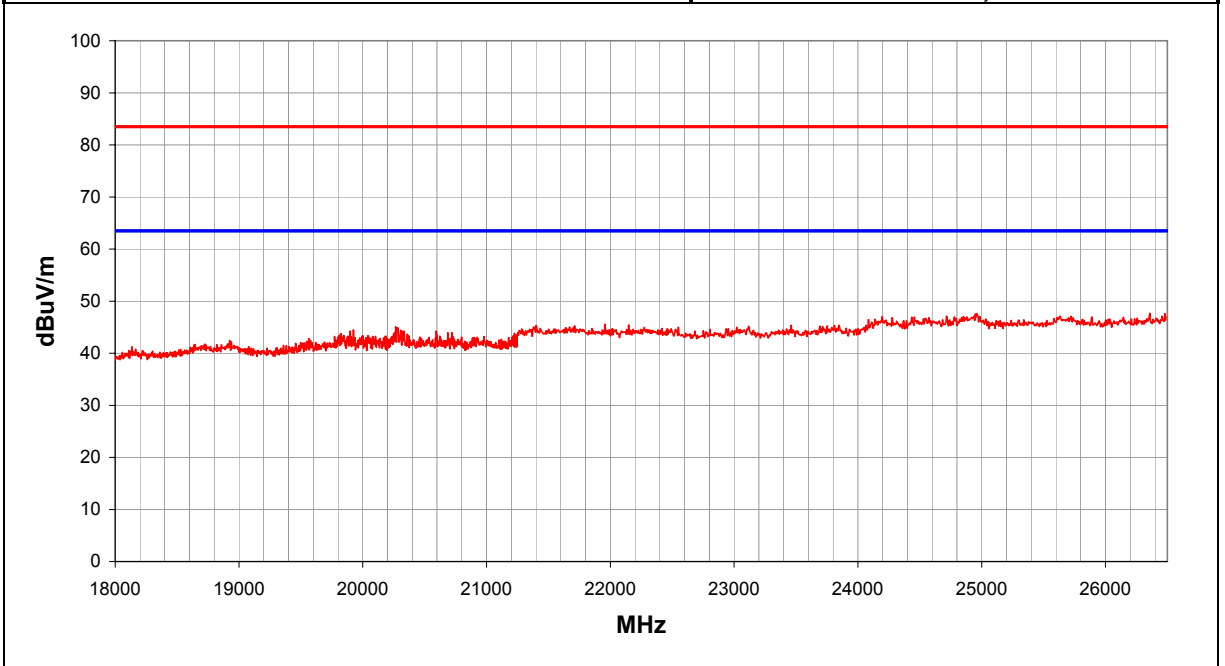
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
26357.250	34.5	35.1	0.0	40.5	7.8	0.0	H		0.0	47.7	83.5	-35.8
26479.040	34.3	35.0	0.0	40.5	7.8	0.0	H		0.0	47.6	83.5	-35.9
24959.390	36.0	36.3	0.0	40.4	7.5	0.0	H		0.0	47.6	83.5	-35.9
24948.800	35.9	36.3	0.0	40.4	7.5	0.0	V		0.0	47.5	83.5	-36.0
24715.830	35.7	36.3	0.0	40.4	7.3	0.0	H		0.0	47.1	83.5	-36.4
25631.850	34.8	35.8	0.0	40.5	7.6	0.0	V		0.0	47.1	83.5	-36.4
24196.930	36.0	36.4	0.0	40.4	7.0	0.0	H		0.0	47.0	83.5	-36.5
25891.300	34.4	35.6	0.0	40.5	7.7	0.0	V		0.0	47.0	83.5	-36.5
24456.380	35.7	36.4	0.0	40.4	7.2	0.0	H		0.0	46.9	83.5	-36.6
26489.630	33.6	35.0	0.0	40.5	7.9	0.0	V		0.0	46.9	83.5	-36.6
24572.870	35.5	36.3	0.0	40.4	7.2	0.0	V		0.0	46.8	83.5	-36.7
25737.750	34.4	35.7	0.0	40.5	7.6	0.0	H		0.0	46.8	83.5	-36.7
24276.350	35.7	36.4	0.0	40.4	7.1	0.0	V		0.0	46.8	83.5	-36.7
21957.170	34.3	36.0	0.0	40.3	7.0	0.0	V		0.0	45.6	83.5	-37.9
22147.790	34.2	36.0	0.0	40.3	6.9	0.0	H		0.0	45.4	83.5	-38.1
23460.930	34.6	36.2	0.0	40.4	6.6	0.0	V		0.0	45.4	83.5	-38.1
23847.460	34.5	36.4	0.0	40.4	6.8	0.0	H		0.0	45.4	83.5	-38.1
23810.400	34.5	36.3	0.0	40.4	6.8	0.0	V		0.0	45.4	83.5	-38.1
21401.210	34.4	36.2	0.0	40.3	6.9	0.0	H		0.0	45.4	83.5	-38.1
21713.610	34.1	36.1	0.0	40.3	6.9	0.0	V		0.0	45.3	83.5	-38.2



**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi Antennas, Low Channel

**EUT OPERATING MODES**

Transmitting on both radios

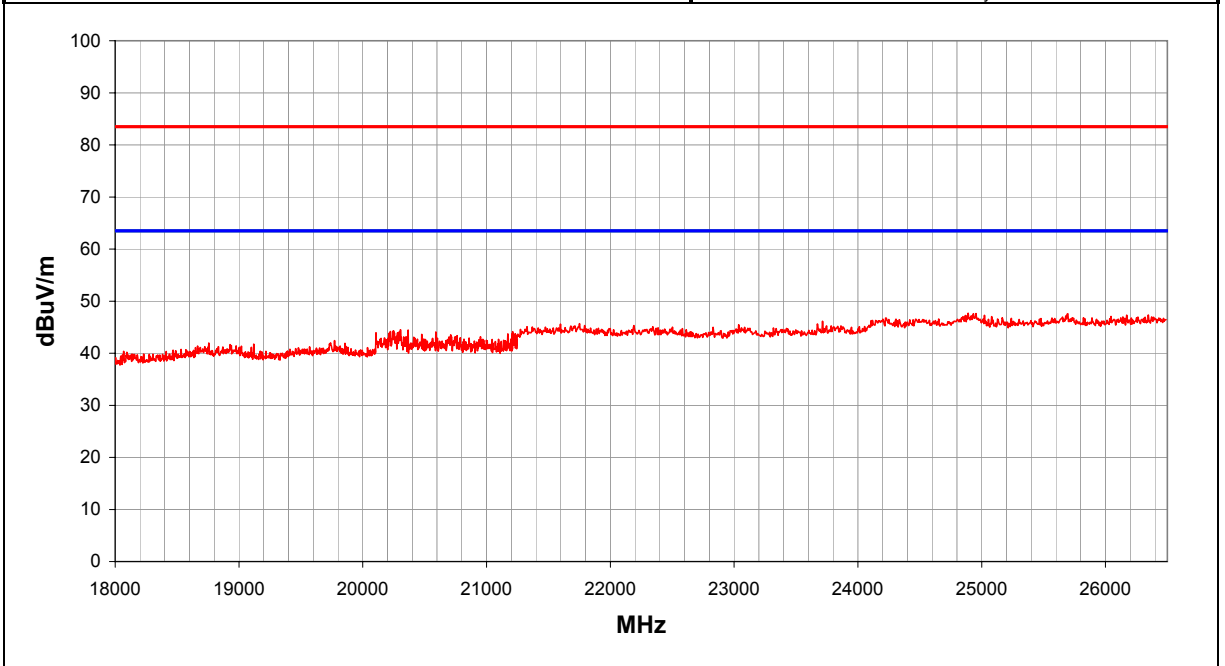
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
24890.560	36.1	36.3	0.0	40.4	7.4	0.0	H		0.0	47.7	83.5	-35.8
24932.920	36.0	36.3	0.0	40.4	7.5	0.0	V		0.0	47.6	83.5	-35.9
25695.390	35.2	35.7	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
26346.660	34.2	35.2	0.0	40.5	7.8	0.0	H		0.0	47.4	83.5	-36.1
26171.930	34.4	35.3	0.0	40.5	7.8	0.0	H		0.0	47.3	83.5	-36.2
25679.500	34.8	35.8	0.0	40.5	7.6	0.0	V		0.0	47.2	83.5	-36.3
25081.180	35.3	36.2	0.0	40.5	7.5	0.0	V		0.0	47.0	83.5	-36.5
26320.190	33.8	35.2	0.0	40.5	7.8	0.0	V		0.0	46.9	83.5	-36.6
25165.900	35.0	36.2	0.0	40.5	7.5	0.0	V		0.0	46.8	83.5	-36.7
24228.700	35.7	36.4	0.0	40.4	7.0	0.0	V		0.0	46.8	83.5	-36.7
23715.090	35.3	36.3	0.0	40.4	6.8	0.0	H		0.0	46.1	83.5	-37.4
21750.670	34.5	36.1	0.0	40.3	7.0	0.0	H		0.0	45.7	83.5	-37.8
23037.340	34.8	36.1	0.0	40.4	6.4	0.0	H		0.0	45.5	83.5	-38.0
22190.150	34.1	36.0	0.0	40.3	6.9	0.0	V		0.0	45.3	83.5	-38.2
21793.030	34.1	36.1	0.0	40.3	7.0	0.0	V		0.0	45.3	83.5	-38.2
23863.350	34.4	36.4	0.0	40.4	6.8	0.0	V		0.0	45.3	83.5	-38.2
22830.840	34.2	36.1	0.0	40.4	6.5	0.0	H		0.0	45.0	83.5	-38.5
23016.160	34.0	36.1	0.0	40.4	6.4	0.0	V		0.0	44.7	83.5	-38.8
20304.730	34.2	36.5	0.0	40.3	6.6	0.0	V		0.0	44.5	83.5	-39.0
20366.400	34.1	36.5	0.0	40.3	6.6	0.0	V		0.0	44.5	83.5	-39.0

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Omni Antennas, Low Channel

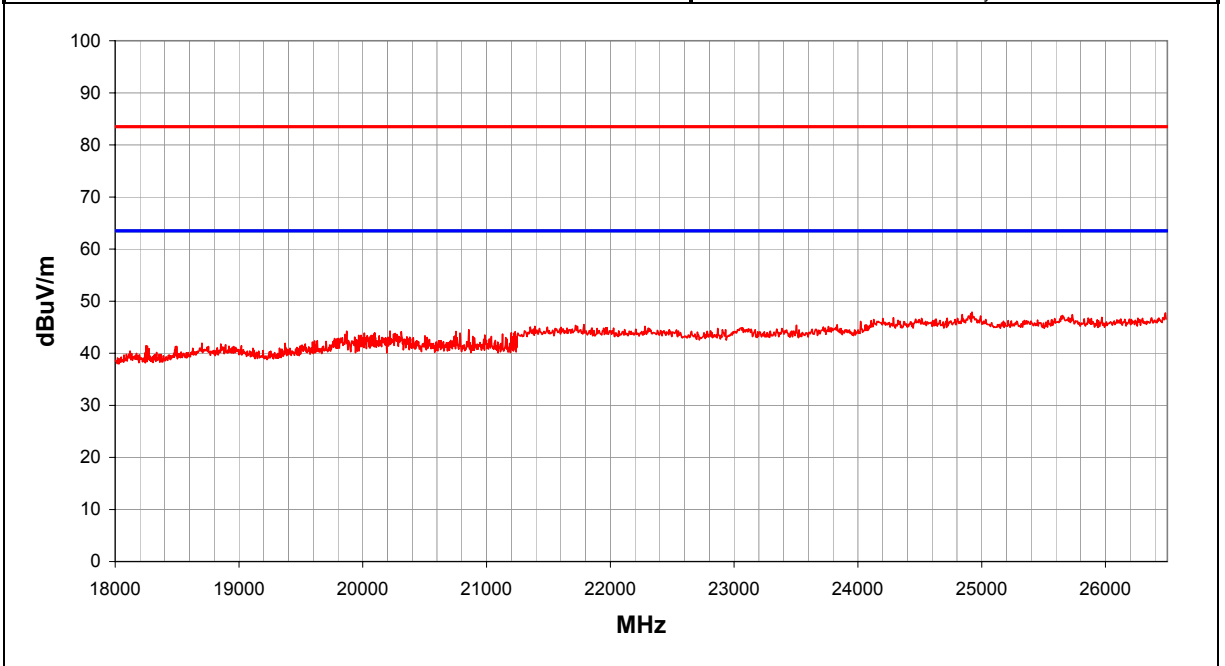
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
24922.330	36.3	36.3	0.0	40.4	7.5	0.0	H		0.0	47.9	83.5	-35.6
26484.330	34.4	35.0	0.0	40.5	7.8	0.0	V		0.0	47.7	83.5	-35.8
25732.450	35.0	35.7	0.0	40.5	7.6	0.0	H		0.0	47.4	83.5	-36.1
24895.860	35.6	36.3	0.0	40.4	7.4	0.0	V		0.0	47.2	83.5	-36.3
25663.620	34.6	35.8	0.0	40.5	7.6	0.0	V		0.0	46.9	83.5	-36.6
25970.720	34.2	35.5	0.0	40.5	7.7	0.0	H		0.0	46.9	83.5	-36.6
24286.940	35.7	36.4	0.0	40.4	7.1	0.0	V		0.0	46.8	83.5	-36.7
26468.450	33.5	35.0	0.0	40.5	7.8	0.0	H		0.0	46.8	83.5	-36.7
24202.220	35.6	36.4	0.0	40.4	7.0	0.0	H		0.0	46.7	83.5	-36.8
24022.190	35.2	36.4	0.0	40.4	6.9	0.0	H		0.0	46.1	83.5	-37.4
21787.740	34.3	36.1	0.0	40.3	7.0	0.0	V		0.0	45.5	83.5	-38.0
23831.580	34.6	36.3	0.0	40.4	6.8	0.0	V		0.0	45.5	83.5	-38.0
23503.290	34.6	36.3	0.0	40.4	6.7	0.0	H		0.0	45.4	83.5	-38.1
21724.200	34.0	36.1	0.0	40.3	6.9	0.0	H		0.0	45.2	83.5	-38.3
21390.620	34.2	36.2	0.0	40.3	6.9	0.0	V		0.0	45.1	83.5	-38.4
22280.160	34.0	36.0	0.0	40.3	6.8	0.0	H		0.0	45.1	83.5	-38.4
23762.740	34.3	36.3	0.0	40.4	6.8	0.0	H		0.0	45.1	83.5	-38.4
21353.550	34.1	36.3	0.0	40.3	6.9	0.0	H		0.0	45.0	83.5	-38.5
23069.110	34.2	36.1	0.0	40.4	6.4	0.0	H		0.0	44.9	83.5	-38.6
23058.520	34.2	36.1	0.0	40.4	6.4	0.0	V		0.0	44.9	83.5	-38.6

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Dipole Antennas, Low Channel

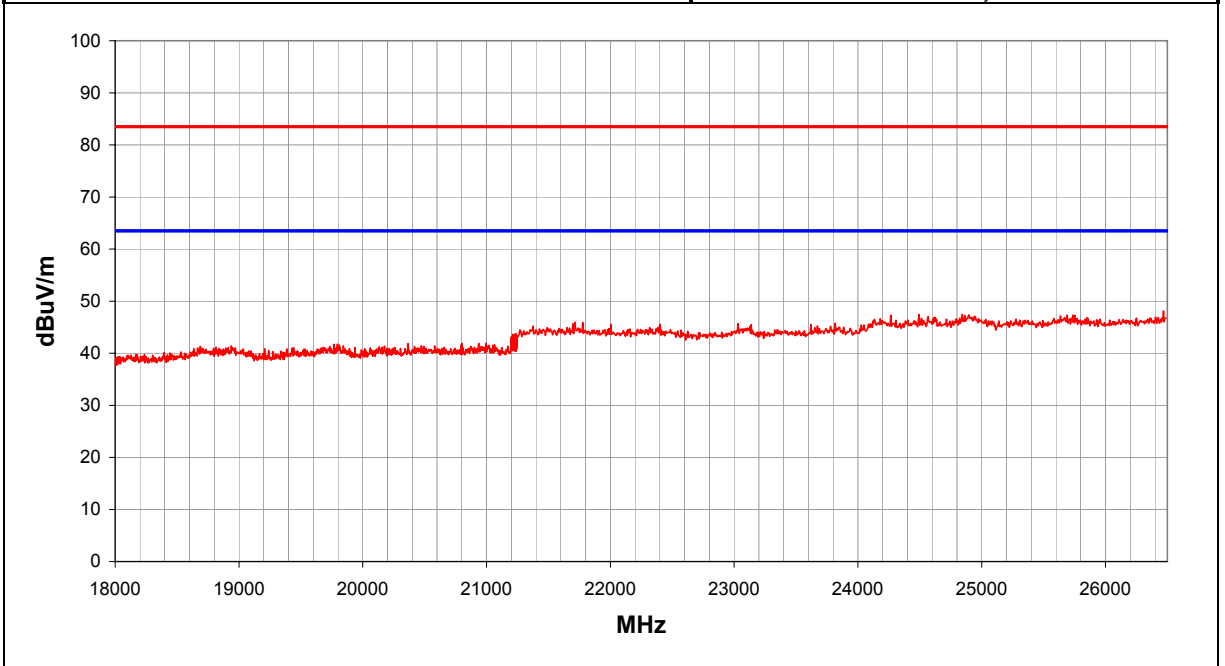
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
26468.450	34.8	35.0	0.0	40.5	7.8	0.0	V		0.0	48.1	83.5	-35.4
24493.440	36.2	36.4	0.0	40.4	7.2	0.0	H		0.0	47.5	83.5	-36.0
24842.910	35.9	36.3	0.0	40.4	7.4	0.0	V		0.0	47.4	83.5	-36.1
24895.860	35.8	36.3	0.0	40.4	7.4	0.0	H		0.0	47.4	83.5	-36.1
25737.750	34.9	35.7	0.0	40.5	7.6	0.0	V		0.0	47.3	83.5	-36.2
24265.760	36.2	36.4	0.0	40.4	7.1	0.0	V		0.0	47.3	83.5	-36.2
25690.090	34.9	35.7	0.0	40.5	7.6	0.0	H		0.0	47.3	83.5	-36.2
25753.630	34.8	35.7	0.0	40.5	7.7	0.0	H		0.0	47.2	83.5	-36.3
24567.570	35.7	36.3	0.0	40.4	7.2	0.0	H		0.0	47.0	83.5	-36.5
24625.810	35.5	36.3	0.0	40.4	7.3	0.0	V		0.0	46.9	83.5	-36.6
24133.390	35.5	36.4	0.0	40.4	7.0	0.0	H		0.0	46.5	83.5	-37.0
21713.610	34.8	36.1	0.0	40.3	6.9	0.0	H		0.0	46.0	83.5	-37.5
21777.150	34.7	36.1	0.0	40.3	7.0	0.0	H		0.0	45.9	83.5	-37.6
23815.690	34.9	36.3	0.0	40.4	6.8	0.0	V		0.0	45.8	83.5	-37.7
23032.040	35.0	36.1	0.0	40.4	6.4	0.0	H		0.0	45.7	83.5	-37.8
21697.720	34.5	36.1	0.0	40.3	6.9	0.0	V		0.0	45.6	83.5	-37.9
22401.950	34.5	36.0	0.0	40.3	6.8	0.0	V		0.0	45.6	83.5	-37.9
22004.830	34.2	36.0	0.0	40.3	7.0	0.0	V		0.0	45.5	83.5	-38.0
23619.780	34.7	36.3	0.0	40.4	6.7	0.0	H		0.0	45.5	83.5	-38.0
23137.940	34.8	36.1	0.0	40.4	6.5	0.0	V		0.0	45.5	83.5	-38.0

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Dipole Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

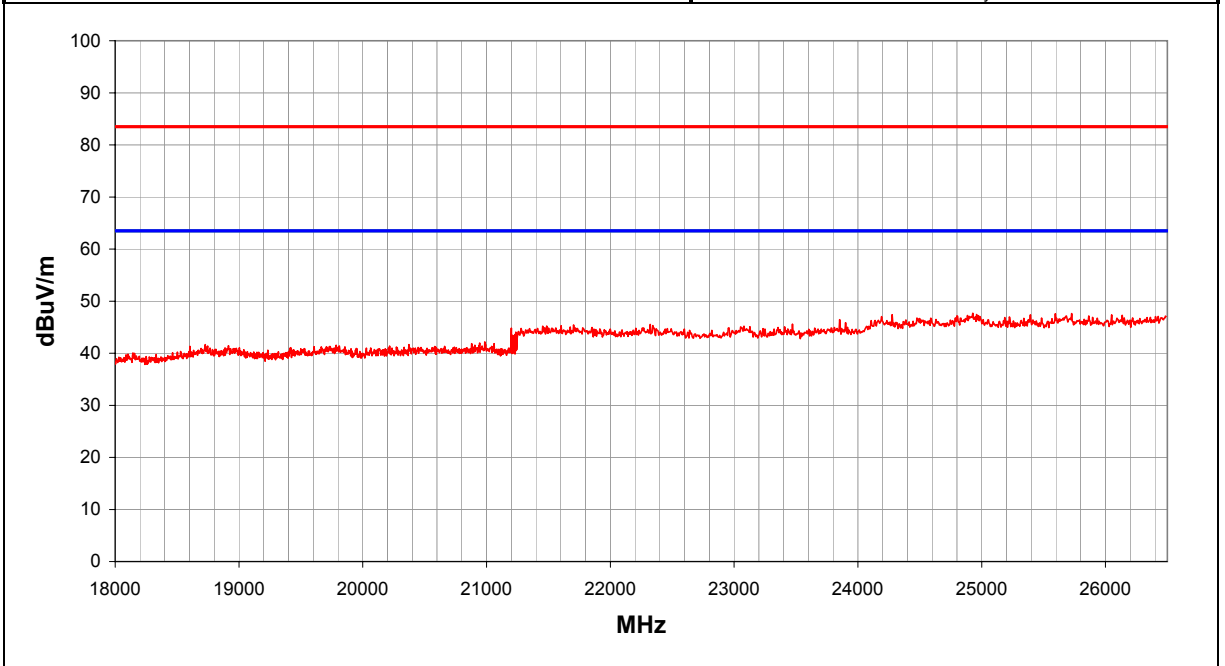
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
24927.630	36.1	36.3	0.0	40.4	7.5	0.0	H		0.0	47.7	83.5	-35.8
25727.160	35.2	35.7	0.0	40.5	7.6	0.0	V		0.0	47.6	83.5	-35.9
24959.390	35.8	36.3	0.0	40.4	7.5	0.0	V		0.0	47.4	83.5	-36.1
24276.350	36.3	36.4	0.0	40.4	7.1	0.0	V		0.0	47.4	83.5	-36.1
26050.150	34.6	35.4	0.0	40.5	7.7	0.0	V		0.0	47.4	83.5	-36.1
25393.580	35.3	36.0	0.0	40.5	7.6	0.0	H		0.0	47.4	83.5	-36.1
26134.870	34.4	35.4	0.0	40.5	7.7	0.0	H		0.0	47.3	83.5	-36.2
24800.550	35.7	36.3	0.0	40.4	7.4	0.0	V		0.0	47.2	83.5	-36.3
25864.830	34.6	35.6	0.0	40.5	7.7	0.0	H		0.0	47.2	83.5	-36.3
26484.330	33.8	35.0	0.0	40.5	7.8	0.0	V		0.0	47.1	83.5	-36.4
25679.500	34.7	35.8	0.0	40.5	7.6	0.0	H		0.0	47.1	83.5	-36.4
24191.630	36.0	36.4	0.0	40.4	7.0	0.0	H		0.0	47.0	83.5	-36.5
26404.910	33.8	35.1	0.0	40.5	7.8	0.0	H		0.0	47.0	83.5	-36.5
25224.140	35.1	36.1	0.0	40.5	7.5	0.0	H		0.0	47.0	83.5	-36.5
24477.560	35.5	36.4	0.0	40.4	7.2	0.0	V		0.0	46.8	83.5	-36.7
24588.750	35.4	36.3	0.0	40.4	7.3	0.0	H		0.0	46.7	83.5	-36.8
23852.760	35.6	36.4	0.0	40.4	6.8	0.0	H		0.0	46.5	83.5	-37.0
23900.410	35.0	36.4	0.0	40.4	6.9	0.0	V		0.0	45.9	83.5	-37.6
23471.520	34.8	36.2	0.0	40.4	6.6	0.0	V		0.0	45.6	83.5	-37.9
22322.520	34.4	36.0	0.0	40.3	6.8	0.0	H		0.0	45.5	83.5	-38.0

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

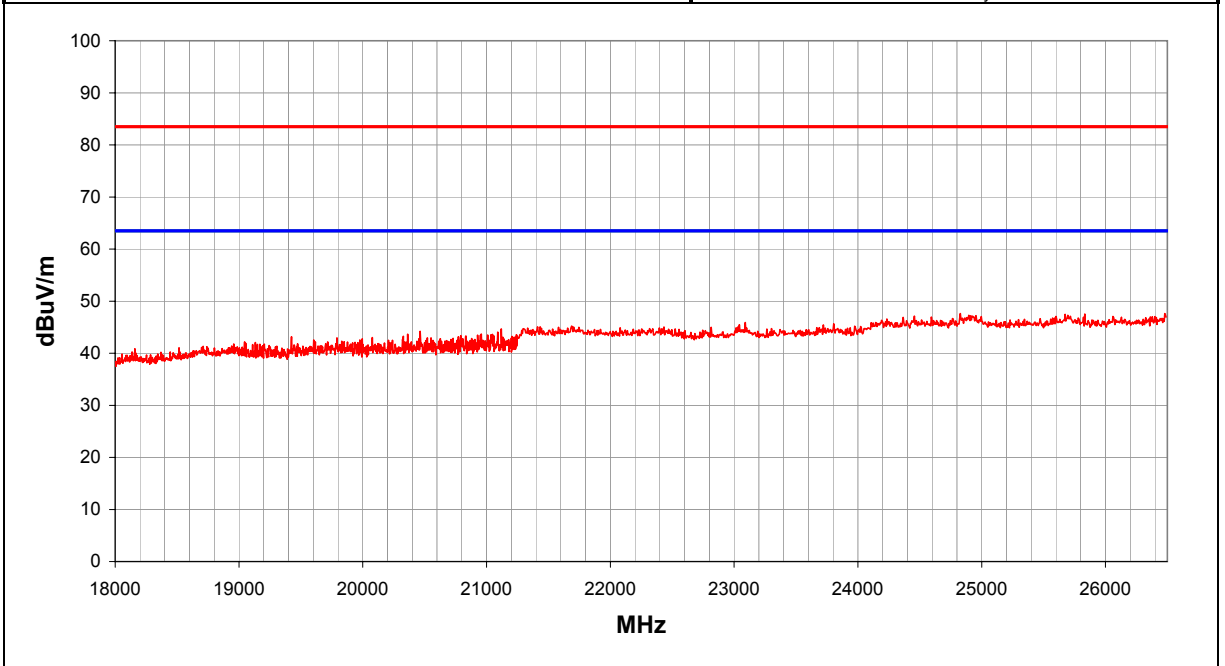
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
26479.040	34.3	35.0	0.0	40.5	7.8	0.0	V		0.0	47.6	83.5	-35.9
24827.020	36.1	36.3	0.0	40.4	7.4	0.0	H		0.0	47.6	83.5	-35.9
25833.060	35.0	35.6	0.0	40.5	7.7	0.0	V		0.0	47.5	83.5	-36.0
25674.210	35.1	35.8	0.0	40.5	7.6	0.0	V		0.0	47.5	83.5	-36.0
25695.390	34.9	35.7	0.0	40.5	7.6	0.0	H		0.0	47.3	83.5	-36.2
24895.860	35.7	36.3	0.0	40.4	7.4	0.0	H		0.0	47.3	83.5	-36.2
24456.380	35.9	36.4	0.0	40.4	7.2	0.0	V		0.0	47.1	83.5	-36.4
24927.630	35.5	36.3	0.0	40.4	7.5	0.0	V		0.0	47.1	83.5	-36.4
26060.740	34.3	35.4	0.0	40.5	7.7	0.0	V		0.0	47.1	83.5	-36.4
26399.610	33.8	35.1	0.0	40.5	7.8	0.0	H		0.0	47.0	83.5	-36.5
24594.040	35.6	36.3	0.0	40.4	7.3	0.0	H		0.0	46.9	83.5	-36.6
24366.360	35.7	36.4	0.0	40.4	7.1	0.0	H		0.0	46.9	83.5	-36.6
24233.990	35.5	36.4	0.0	40.4	7.0	0.0	V		0.0	46.6	83.5	-36.9
25118.240	34.6	36.2	0.0	40.5	7.5	0.0	V		0.0	46.4	83.5	-37.1
24191.630	35.3	36.4	0.0	40.4	7.0	0.0	H		0.0	46.3	83.5	-37.2
23090.290	35.2	36.1	0.0	40.4	6.4	0.0	H		0.0	45.9	83.5	-37.6
23805.100	34.8	36.3	0.0	40.4	6.8	0.0	V		0.0	45.7	83.5	-37.8
23720.380	34.6	36.3	0.0	40.4	6.8	0.0	H		0.0	45.4	83.5	-38.1
21687.130	34.1	36.1	0.0	40.3	6.9	0.0	H		0.0	45.2	83.5	-38.3
21432.980	34.1	36.2	0.0	40.3	6.9	0.0	H		0.0	45.1	83.5	-38.4

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Yagi Antennas, Mid Channel

**EUT OPERATING MODES**

Transmitting on both radios

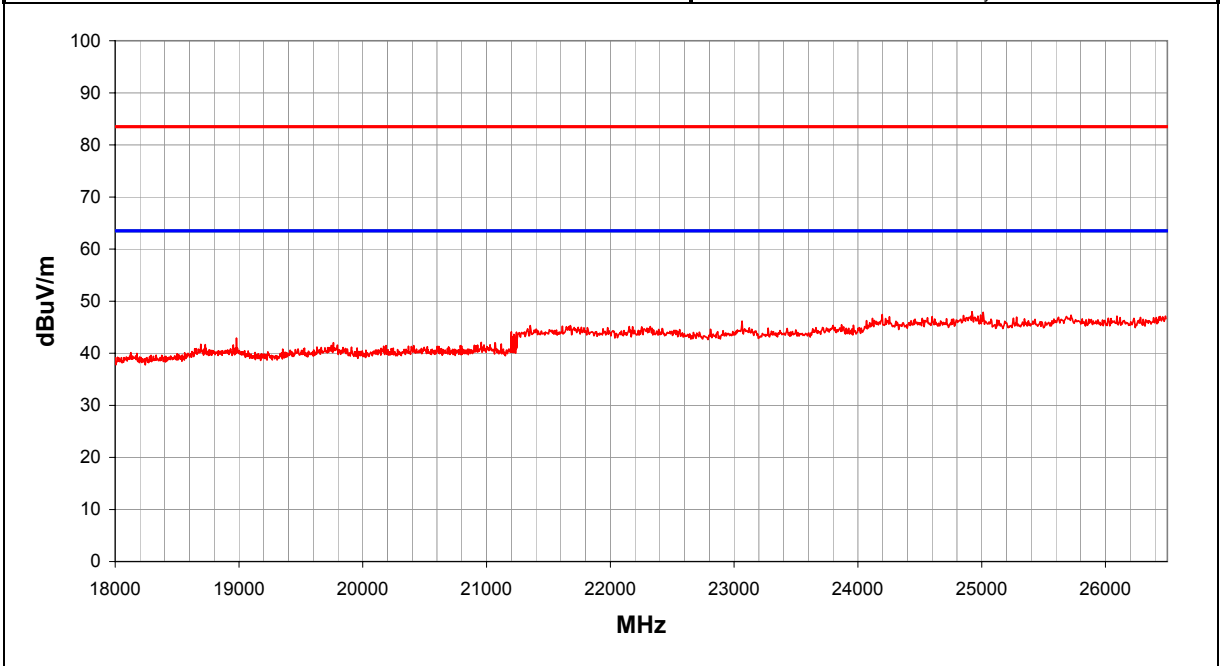
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	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)
24922.330	36.4	36.3	0.0	40.4	7.5	0.0	H		0.0	48.0	83.5	-35.5
25012.340	36.2	36.3	0.0	40.5	7.5	0.0	H		0.0	47.9	83.5	-35.6
24196.930	36.4	36.4	0.0	40.4	7.0	0.0	H		0.0	47.4	83.5	-36.1
24991.160	35.7	36.3	0.0	40.4	7.5	0.0	H		0.0	47.3	83.5	-36.2
25721.860	34.9	35.7	0.0	40.5	7.6	0.0	H		0.0	47.3	83.5	-36.2
24922.330	35.7	36.3	0.0	40.4	7.5	0.0	V		0.0	47.3	83.5	-36.2
26484.330	33.8	35.0	0.0	40.5	7.8	0.0	H		0.0	47.1	83.5	-36.4
26092.510	34.3	35.4	0.0	40.5	7.7	0.0	V		0.0	47.1	83.5	-36.4
25684.800	34.7	35.8	0.0	40.5	7.6	0.0	V		0.0	47.1	83.5	-36.4
24599.340	35.7	36.3	0.0	40.4	7.3	0.0	V		0.0	47.0	83.5	-36.5
24255.170	35.9	36.4	0.0	40.4	7.1	0.0	H		0.0	47.0	83.5	-36.5
25282.380	35.0	36.1	0.0	40.5	7.6	0.0	H		0.0	46.9	83.5	-36.6
26283.130	33.8	35.2	0.0	40.5	7.8	0.0	V		0.0	46.9	83.5	-36.6
26410.200	33.6	35.1	0.0	40.5	7.8	0.0	V		0.0	46.8	83.5	-36.7
24117.500	35.7	36.4	0.0	40.4	7.0	0.0	V		0.0	46.7	83.5	-36.8
23063.810	35.5	36.1	0.0	40.4	6.4	0.0	V		0.0	46.2	83.5	-37.3
23868.640	34.6	36.4	0.0	40.4	6.8	0.0	V		0.0	45.5	83.5	-38.0
21676.540	34.2	36.1	0.0	40.3	6.9	0.0	H		0.0	45.3	83.5	-38.2
21353.550	34.4	36.3	0.0	40.3	6.9	0.0	V		0.0	45.3	83.5	-38.2
21681.840	34.0	36.1	0.0	40.3	6.9	0.0	V		0.0	45.1	83.5	-38.4

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat Panel Antennas, Mid Channel

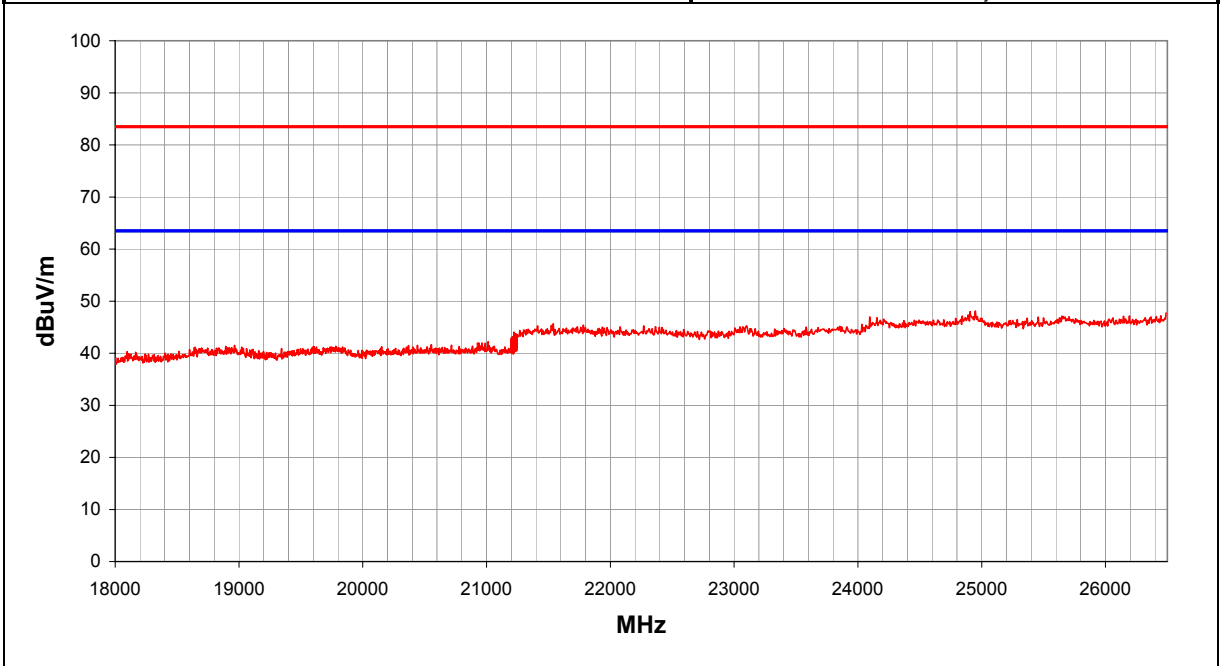
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
24948.800	36.5	36.3	0.0	40.4	7.5	0.0	V		0.0	48.1	83.5	-35.4
26489.630	34.4	35.0	0.0	40.5	7.9	0.0	V		0.0	47.7	83.5	-35.8
26447.270	33.9	35.1	0.0	40.5	7.8	0.0	H		0.0	47.2	83.5	-36.3
26193.110	34.2	35.3	0.0	40.5	7.8	0.0	H		0.0	47.2	83.5	-36.3
25647.730	34.8	35.8	0.0	40.5	7.6	0.0	H		0.0	47.1	83.5	-36.4
24917.040	35.5	36.3	0.0	40.4	7.5	0.0	H		0.0	47.1	83.5	-36.4
25658.320	34.7	35.8	0.0	40.5	7.6	0.0	V		0.0	47.0	83.5	-36.5
24096.320	36.0	36.4	0.0	40.4	7.0	0.0	V		0.0	47.0	83.5	-36.5
24154.570	35.8	36.4	0.0	40.4	7.0	0.0	V		0.0	46.8	83.5	-36.7
25367.100	34.7	36.0	0.0	40.5	7.6	0.0	H		0.0	46.7	83.5	-36.8
21538.880	34.6	36.2	0.0	40.3	6.9	0.0	V		0.0	45.6	83.5	-37.9
21782.440	34.2	36.1	0.0	40.3	7.0	0.0	H		0.0	45.4	83.5	-38.1
23100.880	34.6	36.1	0.0	40.4	6.5	0.0	H		0.0	45.3	83.5	-38.2
22269.570	34.1	36.0	0.0	40.3	6.8	0.0	H		0.0	45.3	83.5	-38.2
22078.960	33.8	36.0	0.0	40.3	7.0	0.0	V		0.0	45.1	83.5	-38.4
23106.170	34.3	36.1	0.0	40.4	6.5	0.0	V		0.0	45.0	83.5	-38.5
21221.180	33.2	36.3	0.0	40.3	6.8	0.0	V		0.0	44.0	83.5	-39.5
21237.060	32.9	36.3	0.0	40.3	6.8	0.0	V		0.0	43.8	83.5	-39.7
21237.060	32.5	36.3	0.0	40.3	6.8	0.0	H		0.0	43.4	83.5	-40.1
21242.360	32.4	36.3	0.0	40.3	6.8	0.0	V		0.0	43.3	83.5	-40.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Flat Panel Antennas, High Channel

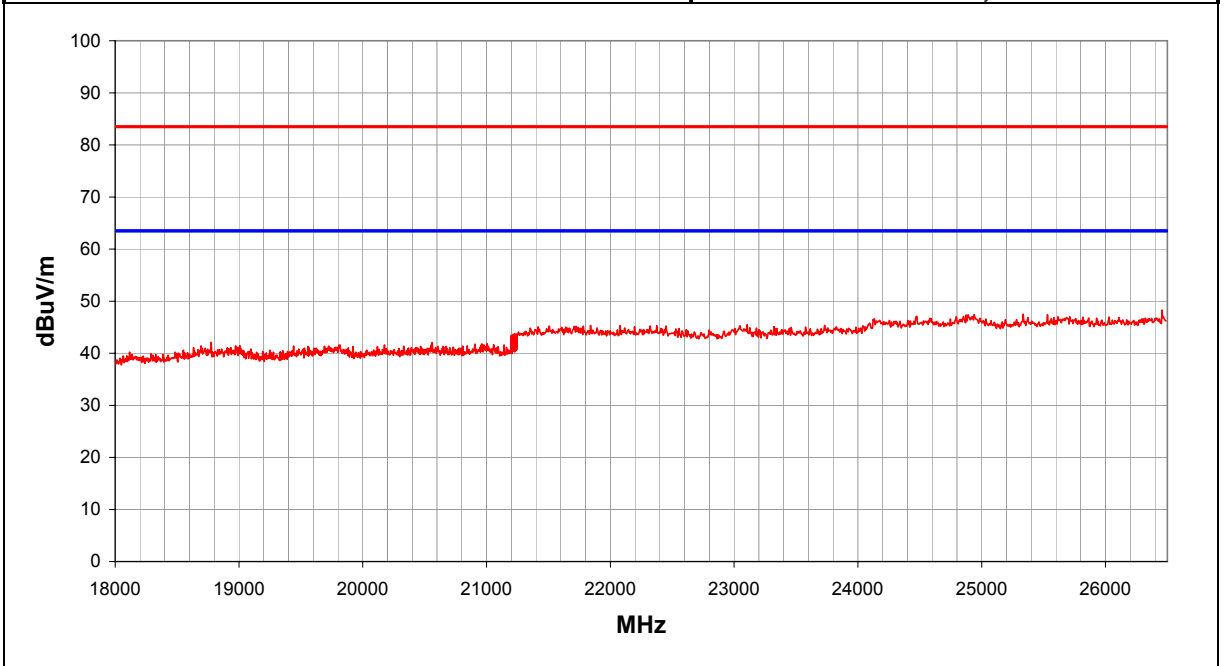
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
26457.860	35.0	35.0	0.0	40.5	7.8	0.0	H		0.0	48.3	83.5	-35.2
25335.330	35.5	36.0	0.0	40.5	7.6	0.0	V		0.0	47.5	83.5	-36.0
25531.250	35.2	35.9	0.0	40.5	7.6	0.0	V		0.0	47.4	83.5	-36.1
24938.210	35.8	36.3	0.0	40.4	7.5	0.0	V		0.0	47.4	83.5	-36.1
24874.680	35.8	36.3	0.0	40.4	7.4	0.0	H		0.0	47.4	83.5	-36.1
24477.560	35.8	36.4	0.0	40.4	7.2	0.0	H		0.0	47.1	83.5	-36.4
26468.450	33.7	35.0	0.0	40.5	7.8	0.0	V		0.0	47.0	83.5	-36.5
25615.960	34.7	35.8	0.0	40.5	7.6	0.0	H		0.0	47.0	83.5	-36.5
24133.390	35.6	36.4	0.0	40.4	7.0	0.0	V		0.0	46.6	83.5	-36.9
23106.170	34.8	36.1	0.0	40.4	6.5	0.0	V		0.0	45.5	83.5	-38.0
21840.690	34.1	36.1	0.0	40.3	7.0	0.0	V		0.0	45.3	83.5	-38.2
22375.470	34.2	36.0	0.0	40.3	6.8	0.0	V		0.0	45.3	83.5	-38.2
22078.960	34.0	36.0	0.0	40.3	7.0	0.0	H		0.0	45.3	83.5	-38.2
22449.600	34.2	36.0	0.0	40.3	6.7	0.0	H		0.0	45.2	83.5	-38.3
21507.110	34.2	36.2	0.0	40.3	6.9	0.0	H		0.0	45.2	83.5	-38.3
23323.260	34.4	36.2	0.0	40.4	6.6	0.0	V		0.0	45.1	83.5	-38.4
23460.930	34.2	36.2	0.0	40.4	6.6	0.0	V		0.0	45.0	83.5	-38.5
23180.300	34.1	36.2	0.0	40.4	6.5	0.0	H		0.0	44.8	83.5	-38.7
22799.070	33.7	36.1	0.0	40.4	6.5	0.0	H		0.0	44.5	83.5	-39.0
21226.470	32.9	36.3	0.0	40.3	6.8	0.0	H		0.0	43.7	83.5	-39.8



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC13A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Yagi Antennas, High Channel

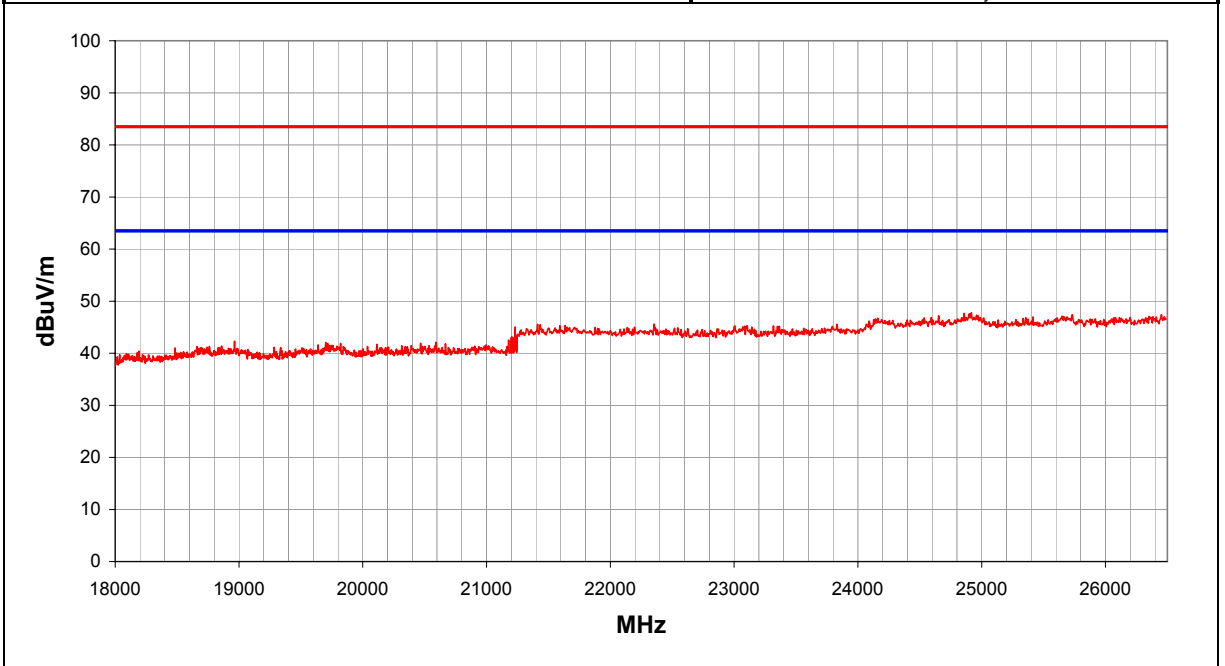
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	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)
24917.040	36.2	36.3	0.0	40.4	7.5	0.0	H		0.0	47.8	83.5	-35.7
24901.150	36.0	36.3	0.0	40.4	7.4	0.0	V		0.0	47.6	83.5	-35.9
25732.450	35.0	35.7	0.0	40.5	7.6	0.0	V		0.0	47.4	83.5	-36.1
26452.560	34.1	35.0	0.0	40.5	7.8	0.0	H		0.0	47.4	83.5	-36.1
24652.290	35.8	36.3	0.0	40.4	7.3	0.0	V		0.0	47.2	83.5	-36.3
25647.730	34.8	35.8	0.0	40.5	7.6	0.0	H		0.0	47.1	83.5	-36.4
26473.740	33.7	35.0	0.0	40.5	7.8	0.0	V		0.0	47.0	83.5	-36.5
25414.760	34.9	36.0	0.0	40.5	7.6	0.0	H		0.0	47.0	83.5	-36.5
25356.510	34.8	36.0	0.0	40.5	7.6	0.0	V		0.0	46.8	83.5	-36.7
22354.290	34.5	36.0	0.0	40.3	6.8	0.0	H		0.0	45.6	83.5	-37.9
21411.800	34.6	36.2	0.0	40.3	6.9	0.0	V		0.0	45.6	83.5	-37.9
23831.580	34.7	36.3	0.0	40.4	6.8	0.0	H		0.0	45.6	83.5	-37.9
21432.980	34.5	36.2	0.0	40.3	6.9	0.0	H		0.0	45.5	83.5	-38.0
21634.180	34.2	36.1	0.0	40.3	6.9	0.0	V		0.0	45.3	83.5	-38.2
23106.170	34.6	36.1	0.0	40.4	6.5	0.0	V		0.0	45.3	83.5	-38.2
23317.970	34.5	36.2	0.0	40.4	6.6	0.0	H		0.0	45.2	83.5	-38.3
23365.620	34.4	36.2	0.0	40.4	6.6	0.0	V		0.0	45.2	83.5	-38.3
23084.990	34.4	36.1	0.0	40.4	6.4	0.0	H		0.0	45.1	83.5	-38.4
21231.770	34.2	36.3	0.0	40.3	6.8	0.0	V		0.0	45.0	83.5	-38.5
22862.610	33.9	36.1	0.0	40.4	6.5	0.0	V		0.0	44.7	83.5	-38.8

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#3.00  
08/20/2002

EUT: MPC13A-20		Work Order: INMC0042
Serial Number:		Date: 10/10/02
Customer: INTERMEC Corporation		Temperature: 75
Attendees: none		Humidity: 38%
Cust. Ref. No.:		Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**

Omni Antennas, High Channel

**EUT OPERATING MODES**

Transmitting on both radios

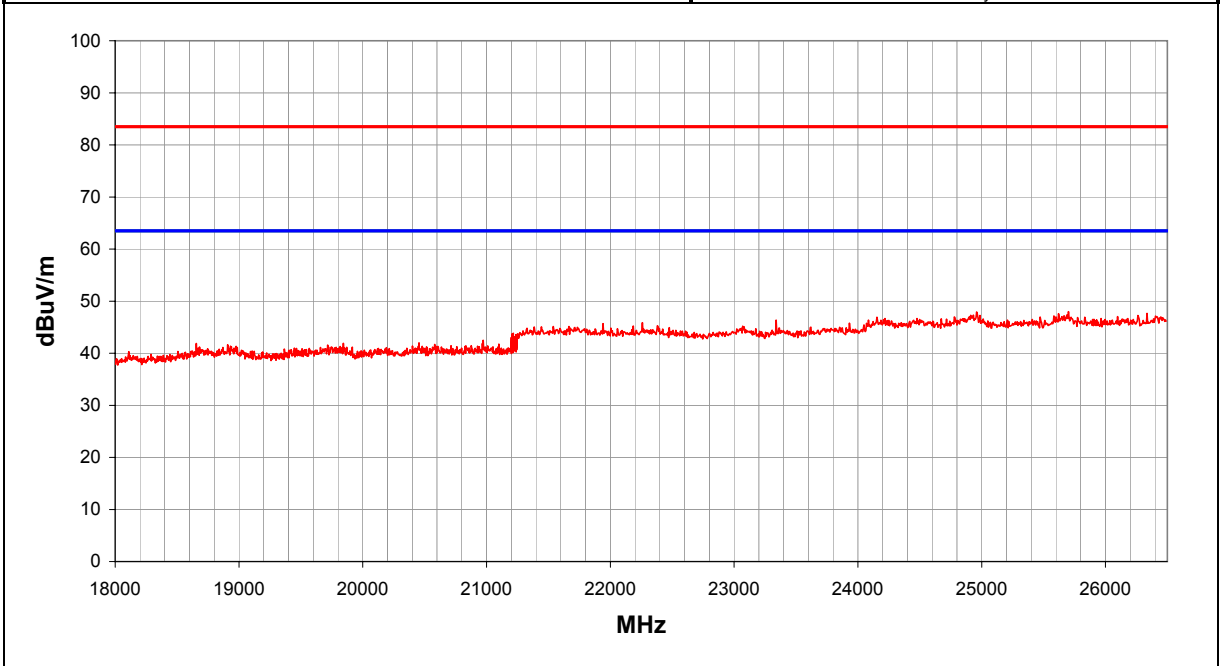
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
25700.680	35.6	35.7	0.0	40.5	7.6	0.0	H		0.0	48.0	83.5	-35.5
24959.390	36.3	36.3	0.0	40.4	7.5	0.0	V		0.0	47.9	83.5	-35.6
26336.070	34.5	35.2	0.0	40.5	7.8	0.0	V		0.0	47.6	83.5	-35.9
24964.690	35.9	36.3	0.0	40.4	7.5	0.0	H		0.0	47.5	83.5	-36.0
26261.950	34.2	35.2	0.0	40.5	7.8	0.0	V		0.0	47.2	83.5	-36.3
25584.200	34.9	35.8	0.0	40.5	7.6	0.0	V		0.0	47.2	83.5	-36.3
26415.500	33.8	35.1	0.0	40.5	7.8	0.0	H		0.0	47.0	83.5	-36.5
25473.000	34.8	35.9	0.0	40.5	7.6	0.0	V		0.0	46.9	83.5	-36.6
24154.570	35.9	36.4	0.0	40.4	7.0	0.0	V		0.0	46.9	83.5	-36.6
24218.110	35.6	36.4	0.0	40.4	7.0	0.0	H		0.0	46.7	83.5	-36.8
24477.560	35.4	36.4	0.0	40.4	7.2	0.0	V		0.0	46.7	83.5	-36.8
23339.150	35.6	36.2	0.0	40.4	6.6	0.0	H		0.0	46.3	83.5	-37.2
22258.980	34.7	36.0	0.0	40.3	6.8	0.0	H		0.0	45.9	83.5	-37.6
23932.180	34.9	36.4	0.0	40.4	6.9	0.0	V		0.0	45.8	83.5	-37.7
21941.290	34.4	36.0	0.0	40.3	7.0	0.0	V		0.0	45.7	83.5	-37.8
22380.770	34.2	36.0	0.0	40.3	6.8	0.0	H		0.0	45.3	83.5	-38.2
22184.860	34.0	36.0	0.0	40.3	6.9	0.0	V		0.0	45.2	83.5	-38.3
23069.110	34.5	36.1	0.0	40.4	6.4	0.0	H		0.0	45.2	83.5	-38.3
21538.880	34.1	36.2	0.0	40.3	6.9	0.0	H		0.0	45.1	83.5	-38.4
23079.700	34.4	36.1	0.0	40.4	6.4	0.0	V		0.0	45.1	83.5	-38.4

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df3.00 08/20/2002

EUT: MPC3A-20	Work Order: INMC0042
Serial Number:	Date: 10/10/02
Customer: INTERMEC Corporation	Temperature: 75
Attendees: none	Humidity: 38%
Cust. Ref. No.:	Barometric Pressure: 30.01
Tested by: Dan Haas	Power: DC power on Enet
	Job Site: EV01

<b>TEST SPECIFICATIONS</b>	
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**  
 Dipole Antennas, High Channel

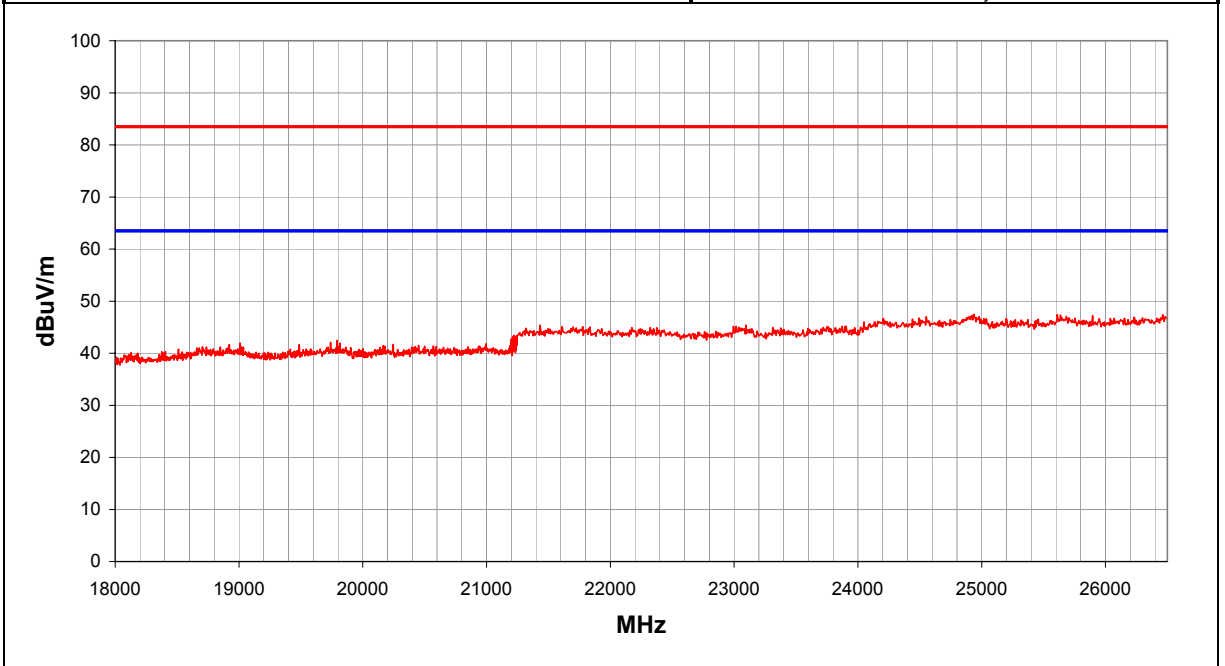
**EUT OPERATING MODES**  
 Transmitting on both radios

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
24938.210	35.9	36.3	0.0	40.4	7.5	0.0	V		0.0	47.5	83.5	-36.0
26463.150	34.1	35.0	0.0	40.5	7.8	0.0	V		0.0	47.4	83.5	-36.1
25610.670	35.1	35.8	0.0	40.5	7.6	0.0	V		0.0	47.4	83.5	-36.1
25637.140	35.0	35.8	0.0	40.5	7.6	0.0	H		0.0	47.3	83.5	-36.2
24932.920	35.6	36.3	0.0	40.4	7.5	0.0	H		0.0	47.2	83.5	-36.3
25896.600	34.6	35.6	0.0	40.5	7.7	0.0	V		0.0	47.2	83.5	-36.3
26484.330	33.7	35.0	0.0	40.5	7.8	0.0	H		0.0	47.0	83.5	-36.5
24551.690	35.7	36.3	0.0	40.4	7.2	0.0	H		0.0	47.0	83.5	-36.5
26230.180	33.9	35.3	0.0	40.5	7.8	0.0	V		0.0	46.9	83.5	-36.6
25197.670	34.8	36.1	0.0	40.5	7.5	0.0	H		0.0	46.7	83.5	-36.8
24207.520	35.6	36.4	0.0	40.4	7.0	0.0	V		0.0	46.7	83.5	-36.8
24048.670	35.1	36.4	0.0	40.4	6.9	0.0	H		0.0	46.0	83.5	-37.5
23095.580	34.7	36.1	0.0	40.4	6.4	0.0	V		0.0	45.4	83.5	-38.1
21432.980	34.4	36.2	0.0	40.3	6.9	0.0	H		0.0	45.4	83.5	-38.1
23016.160	34.5	36.1	0.0	40.4	6.4	0.0	H		0.0	45.2	83.5	-38.3
21777.150	33.9	36.1	0.0	40.3	7.0	0.0	H		0.0	45.1	83.5	-38.4
21607.710	34.0	36.2	0.0	40.3	6.9	0.0	V		0.0	45.1	83.5	-38.4
23312.670	34.2	36.2	0.0	40.4	6.6	0.0	V		0.0	44.9	83.5	-38.6
22322.520	33.8	36.0	0.0	40.3	6.8	0.0	H		0.0	44.9	83.5	-38.6
23376.210	34.1	36.2	0.0	40.4	6.6	0.0	V		0.0	44.9	83.5	-38.6