

**Exhibit Q: Spur. Radiated Emissions Revised 10-21-02 P1**

**FCC ID: HN2MPCI3A-20**

# **Radiated Emissions Scans**

**RADIATED EMISSIONS DATA SHEET**

NORTHWEST  
**EMC**

REV  
df2.04  
07/23/2002

EUT: MPC13A-20		Work Order: INMC0023	
Serial Number: none		Date: 07/24/02	
Customer: Intermec Corporation		Temperature: 77	
Attendees: None		Humidity: 45%	
Cust. Ref. No.:		Barometric Pressure: 30.07	
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, dipole antenna

**EUT OPERATING MODES**

Transmitting radio b

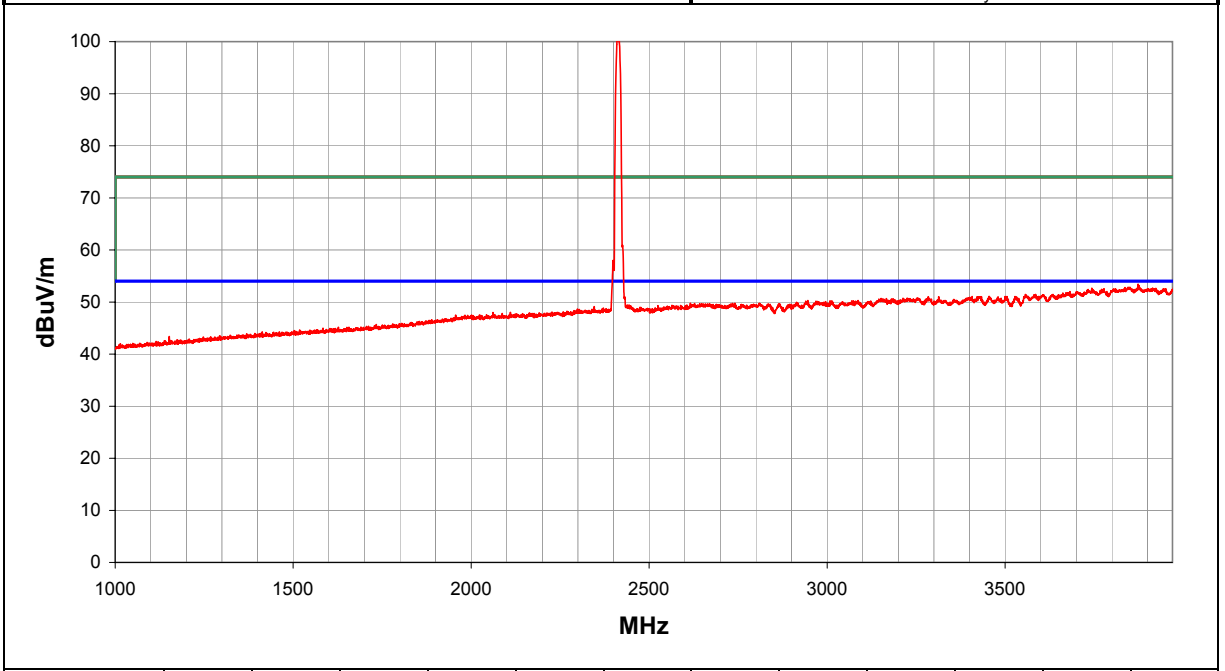
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
Evaluation	3	4

**Other**

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2413.108	81.2	32.5	0.0	30.0	2.6	20.0	V		0.0	101.3	74.0	27.3
2413.108	74.6	32.5	0.0	30.0	2.6	20.0	H		0.0	94.7	74.0	20.7
3873.327	28.2	32.4	0.0	33.8	3.8	20.0	V		0.0	53.4	74.0	-20.6
3996.750	27.4	32.4	0.0	34.2	3.9	20.0	H		0.0	53.1	74.0	-20.9
3454.929	27.4	32.5	0.0	32.7	3.5	20.0	H		0.0	51.1	74.0	-22.9
3504.590	27.2	32.4	0.0	32.8	3.5	20.0	V		0.0	51.1	74.0	-22.9

**RADIATED EMISSIONS DATA SHEET**

NORTHWEST  
**EMC**

REV  
d2.04  
07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/24/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.07
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**

mid channel, dipole antenna

**EUT OPERATING MODES**

Transmitting radio b

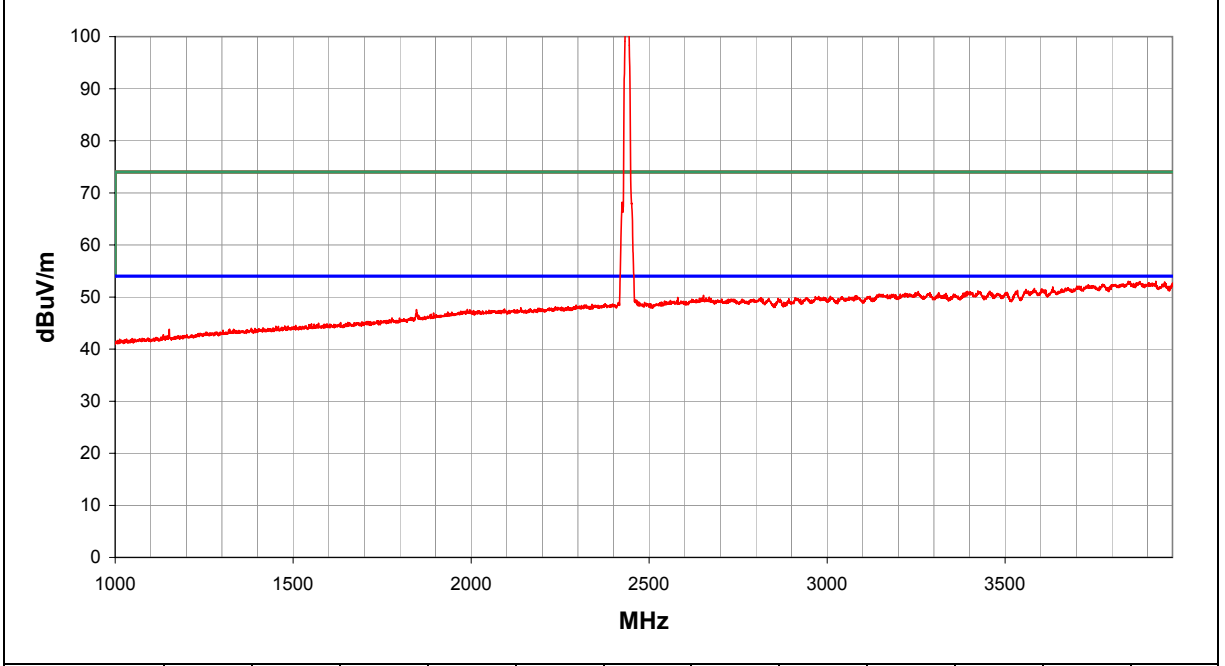
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	5

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2439.118	85.9	32.5	0.0	30.1	2.6	20.0	V		0.0	106.0	74.0	32.0
2439.118	78.9	32.5	0.0	30.1	2.6	20.0	H		0.0	99.0	74.0	25.0
3997.770	27.4	32.4	0.0	34.2	3.9	20.0	H		0.0	53.1	74.0	-20.9
3990.629	27.4	32.4	0.0	34.2	3.9	20.0	V		0.0	53.1	74.0	-20.9
3534.681	27.3	32.4	0.0	32.9	3.5	20.0	H		0.0	51.3	74.0	-22.7
3423.308	27.6	32.5	0.0	32.6	3.5	20.0	H		0.0	51.2	74.0	-22.8
3456.969	27.4	32.5	0.0	32.7	3.5	20.0	V		0.0	51.1	74.0	-22.9
2652.493	29.5	32.6	0.0	30.5	2.8	20.0	H		0.0	50.3	74.0	-23.7
2668.813	29.1	32.6	0.0	30.6	2.9	20.0	V		0.0	50.0	74.0	-24.0
1151.983	29.9	33.6	0.0	25.4	2.1	20.0	V		0.0	43.8	74.0	-30.2

**RADIATED EMISSIONS DATA SHEET**

NORTHWEST  
**EMC**

REV  
d2.04  
07/23/2002

EUT: <b>MPCI3A-20</b>	Work Order: <b>INMC0023</b>
Serial Number: <b>none</b>	Date: <b>07/24/02</b>
Customer: <b>Intermec Corporation</b>	Temperature: <b>77</b>
Attendees: <b>None</b>	Humidity: <b>45%</b>
Cust. Ref. No.:	Barometric Pressure: <b>30.07</b>
Tested by: <b>Rod Peloquin</b>	Power: <b>DC from E-net</b>
	Job Site: <b>EV01</b>

<b>TEST SPECIFICATIONS</b>	
Specification: <b>FCC Part 15.209(a)</b>	Year: <b>2000</b>
Method: <b>ANSI C63.4</b>	Year: <b>1992</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, dipole antenna

**EUT OPERATING MODES**

Transmitting radio b

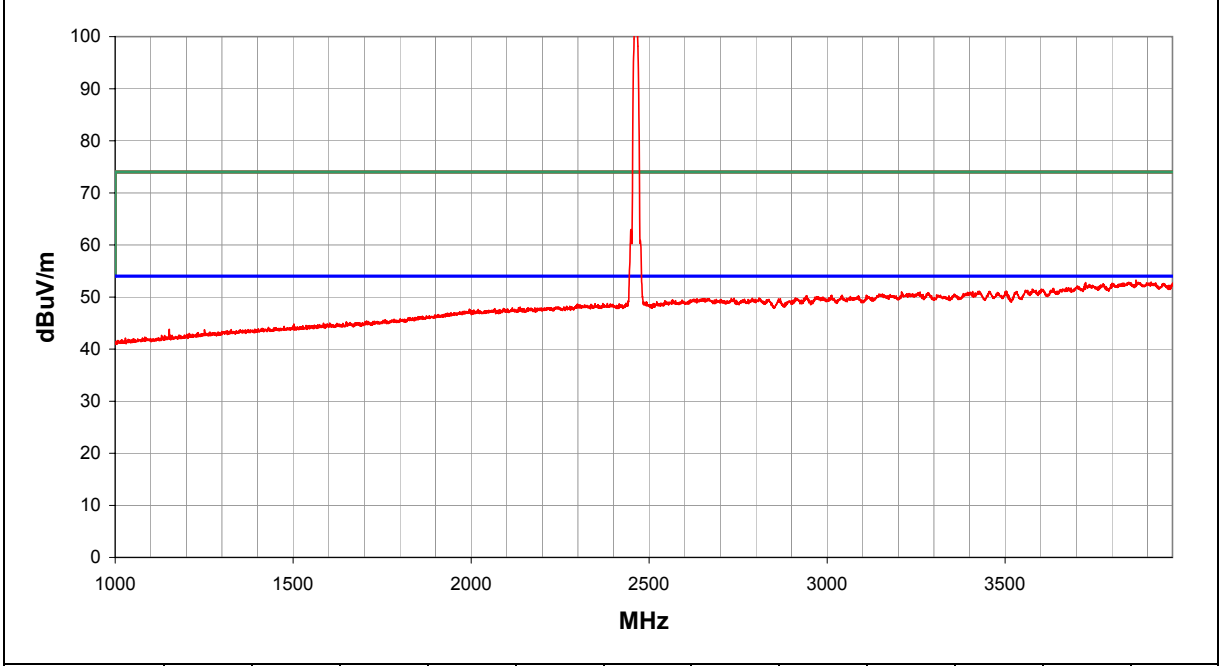
**DEVIATIONS FROM TEST STANDARD**

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)
2463.089	83.8	32.6	0.0	30.1	2.6	20.0	V		0.0	104.0	74.0	30.0
2463.089	77.5	32.6	0.0	30.1	2.6	20.0	H		0.0	97.7	74.0	23.7
2449.319	42.8	32.5	0.0	30.1	2.6	20.0	V		0.0	62.9	74.0	-11.1
2449.319	35.7	32.5	0.0	30.1	2.6	20.0	H		0.0	55.8	74.0	-18.2
3996.750	27.8	32.4	0.0	34.2	3.9	20.0	V		0.0	53.5	74.0	-20.5
3996.240	27.6	32.4	0.0	34.2	3.9	20.0	H		0.0	53.3	74.0	-20.7
3503.380	27.3	32.4	0.0	32.8	3.5	20.0	H		0.0	51.2	74.0	-22.8
3427.388	27.5	32.5	0.0	32.6	3.5	20.0	V		0.0	51.1	74.0	-22.9
1151.983	29.9	33.6	0.0	25.4	2.1	20.0	V		0.0	43.8	74.0	-30.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/24/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.07
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, dipole antenna

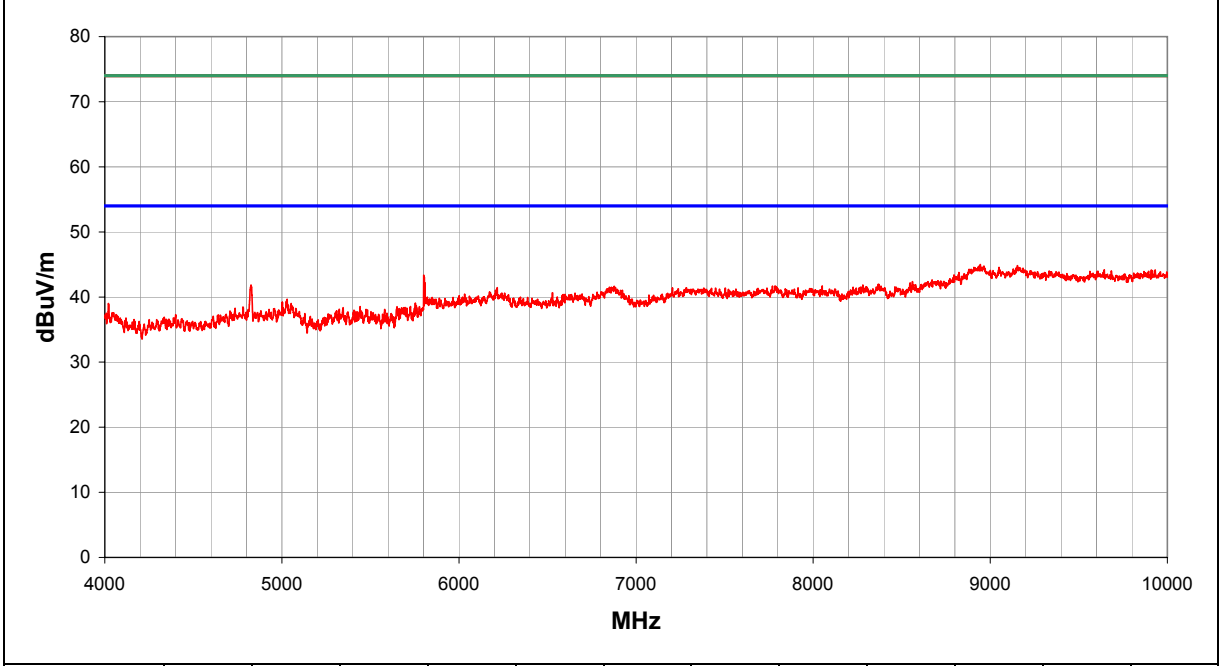
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	7

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
8943.871	29.7	31.0	0.0	39.9	6.4	0.0	V		0.0	45.0	74.0	-29.0
9153.729	29.6	30.9	0.0	39.7	6.5	0.0	V		0.0	44.8	74.0	-29.2
8936.322	29.5	31.0	0.0	39.9	6.4	0.0	H		0.0	44.8	74.0	-29.2
9644.402	29.9	30.9	0.0	38.5	6.7	0.0	V		0.0	44.2	74.0	-29.8
5801.148	34.2	32.4	0.0	36.3	5.2	0.0	V		0.0	43.4	74.0	-30.6
5804.388	33.9	32.4	0.0	36.3	5.2	0.0	V		0.0	43.1	74.0	-30.9
5803.578	33.9	32.4	0.0	36.3	5.2	0.0	V		0.0	43.1	74.0	-30.9
5808.438	33.0	32.4	0.0	36.3	5.2	0.0	V		0.0	42.2	74.0	-31.8
5806.818	32.9	32.4	0.0	36.3	5.2	0.0	V		0.0	42.1	74.0	-31.9
8370.867	30.0	32.0	0.0	37.8	6.2	0.0	V		0.0	42.0	74.0	-32.0
5801.958	32.7	32.4	0.0	36.3	5.2	0.0	V		0.0	41.9	74.0	-32.1
4826.012	34.9	32.0	0.0	34.5	4.4	0.0	V		0.0	41.9	74.0	-32.1
8367.848	29.9	32.0	0.0	37.8	6.2	0.0	H		0.0	41.8	74.0	-32.2
5802.768	32.6	32.4	0.0	36.3	5.2	0.0	H		0.0	41.8	74.0	-32.2
5801.958	32.6	32.4	0.0	36.3	5.2	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
7785.078	30.8	32.8	0.0	37.7	6.0	0.0	H		0.0	41.7	74.0	-32.3
7769.980	30.8	32.8	0.0	37.7	6.0	0.0	V		0.0	41.7	74.0	-32.3
5808.438	32.5	32.4	0.0	36.3	5.2	0.0	H		0.0	41.7	74.0	-32.3
5806.818	32.5	32.4	0.0	36.3	5.2	0.0	H		0.0	41.7	74.0	-32.3
6876.865	32.0	33.0	0.0	36.9	5.8	0.0	H		0.0	41.7	74.0	-32.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/24/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.07
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**  
 mid channel, dipole antenna

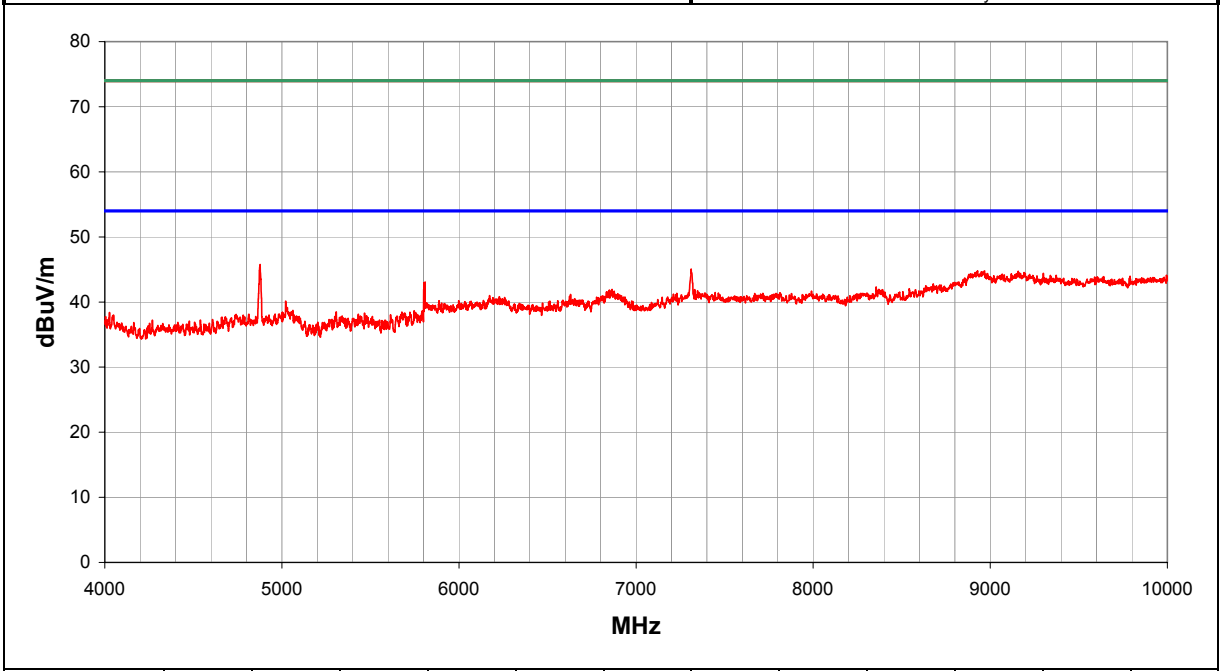
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	8

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4877.510	38.6	32.0	0.0	34.7	4.4	0.0	V		0.0	45.8	74.0	-28.2
7311.012	34.7	33.0	0.0	37.4	5.9	0.0	V		0.0	45.1	74.0	-28.9
8928.773	29.6	31.0	0.0	39.9	6.4	0.0	H		0.0	44.8	74.0	-29.2
9158.258	29.5	30.9	0.0	39.7	6.5	0.0	H		0.0	44.7	74.0	-29.3
8922.734	29.5	31.0	0.0	39.8	6.4	0.0	V		0.0	44.7	74.0	-29.3
5808.438	33.9	32.4	0.0	36.3	5.2	0.0	V		0.0	43.1	74.0	-30.9
5804.388	33.8	32.4	0.0	36.3	5.2	0.0	H		0.0	43.0	74.0	-31.0
5803.578	33.8	32.4	0.0	36.3	5.2	0.0	H		0.0	43.0	74.0	-31.0
5802.768	33.7	32.4	0.0	36.3	5.2	0.0	V		0.0	42.9	74.0	-31.1
5801.958	33.7	32.4	0.0	36.3	5.2	0.0	V		0.0	42.9	74.0	-31.1
8355.770	30.4	32.1	0.0	37.8	6.2	0.0	H		0.0	42.3	74.0	-31.7
5806.008	33.1	32.4	0.0	36.3	5.2	0.0	H		0.0	42.3	74.0	-31.7
4877.510	34.8	32.0	0.0	34.7	4.4	0.0	H		0.0	42.0	74.0	-32.0
5801.148	32.8	32.4	0.0	36.3	5.2	0.0	V		0.0	42.0	74.0	-32.0
8370.867	30.0	32.0	0.0	37.8	6.2	0.0	V		0.0	42.0	74.0	-32.0
6864.766	32.3	33.0	0.0	36.9	5.7	0.0	H		0.0	41.9	74.0	-32.1
5806.008	32.7	32.4	0.0	36.3	5.2	0.0	V		0.0	41.9	74.0	-32.1
5801.148	32.7	32.4	0.0	36.3	5.2	0.0	H		0.0	41.9	74.0	-32.1
6850.246	32.2	33.0	0.0	36.9	5.7	0.0	V		0.0	41.8	74.0	-32.2
5807.628	32.6	32.4	0.0	36.3	5.2	0.0	H		0.0	41.8	74.0	-32.2
5806.818	32.6	32.4	0.0	36.3	5.2	0.0	H		0.0	41.8	74.0	-32.2

# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/24/02
Customer: Intermec Corporation	Temperature: 77
Attendees: None	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.07
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, dipole antenna

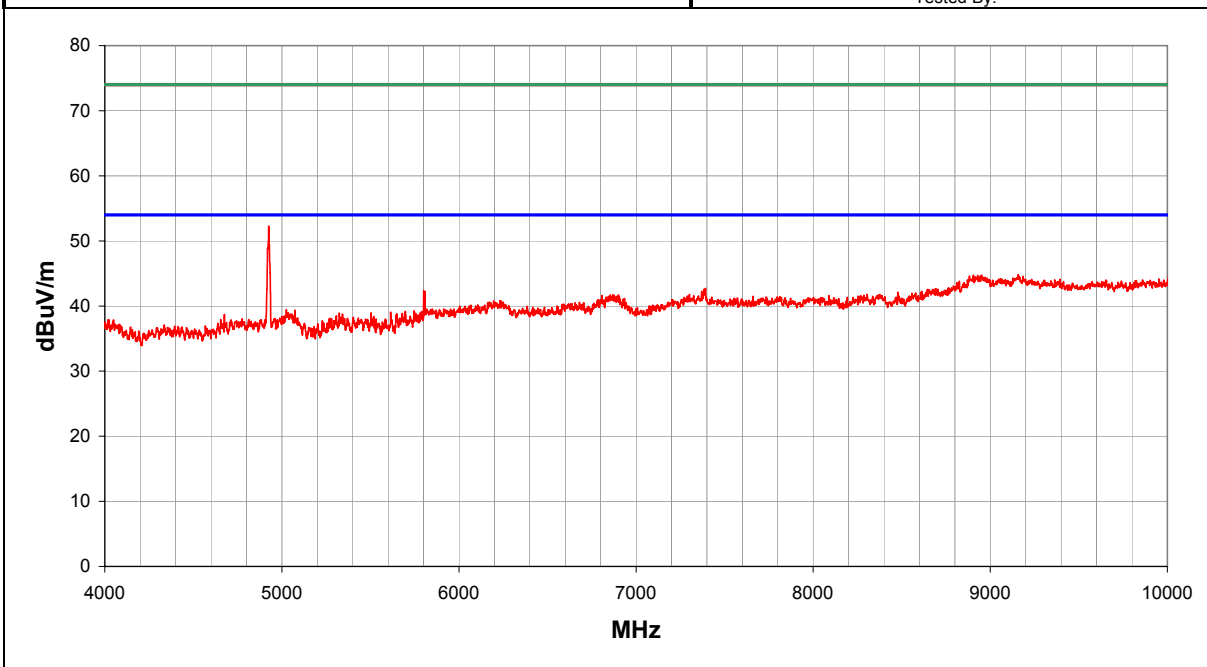
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
4925.979	44.9	31.9	0.0	34.9	4.5	0.0	V		0.0	52.3	74.0	-21.7
4923.959	38.3	31.9	0.0	34.9	4.5	0.0	H		0.0	45.7	74.0	-28.3
9158.258	29.6	30.9	0.0	39.7	6.5	0.0	H		0.0	44.8	74.0	-29.2
8951.420	29.4	31.0	0.0	40.0	6.4	0.0	V		0.0	44.8	74.0	-29.2
8904.617	29.7	31.1	0.0	39.7	6.4	0.0	H		0.0	44.7	74.0	-29.3
10006.750	30.2	30.9	0.0	38.6	6.8	0.0	H		0.0	44.7	74.0	-29.3
9860.299	29.6	30.9	0.0	38.6	6.7	0.0	V		0.0	44.0	74.0	-30.0
7392.539	32.2	32.9	0.0	37.5	5.9	0.0	V		0.0	42.7	74.0	-31.3
5801.148	33.2	32.4	0.0	36.3	5.2	0.0	H		0.0	42.4	74.0	-31.6
7371.402	31.8	33.0	0.0	37.5	5.9	0.0	H		0.0	42.3	74.0	-31.7
5807.628	33.0	32.4	0.0	36.3	5.2	0.0	H		0.0	42.2	74.0	-31.8
5806.818	33.0	32.4	0.0	36.3	5.2	0.0	H		0.0	42.2	74.0	-31.8
8479.570	29.9	31.8	0.0	37.8	6.2	0.0	V		0.0	42.1	74.0	-31.9
5806.008	32.9	32.4	0.0	36.3	5.2	0.0	V		0.0	42.1	74.0	-31.9
5802.768	32.7	32.4	0.0	36.3	5.2	0.0	H		0.0	41.9	74.0	-32.1
5801.958	32.7	32.4	0.0	36.3	5.2	0.0	H		0.0	41.9	74.0	-32.1
8304.438	30.0	32.2	0.0	37.8	6.2	0.0	H		0.0	41.8	74.0	-32.2
5807.628	32.6	32.4	0.0	36.3	5.2	0.0	V		0.0	41.8	74.0	-32.2
5804.388	32.6	32.4	0.0	36.3	5.2	0.0	H		0.0	41.8	74.0	-32.2
5804.388	32.6	32.4	0.0	36.3	5.2	0.0	V		0.0	41.8	74.0	-32.2
5803.578	32.6	32.4	0.0	36.3	5.2	0.0	V		0.0	41.8	74.0	-32.2



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

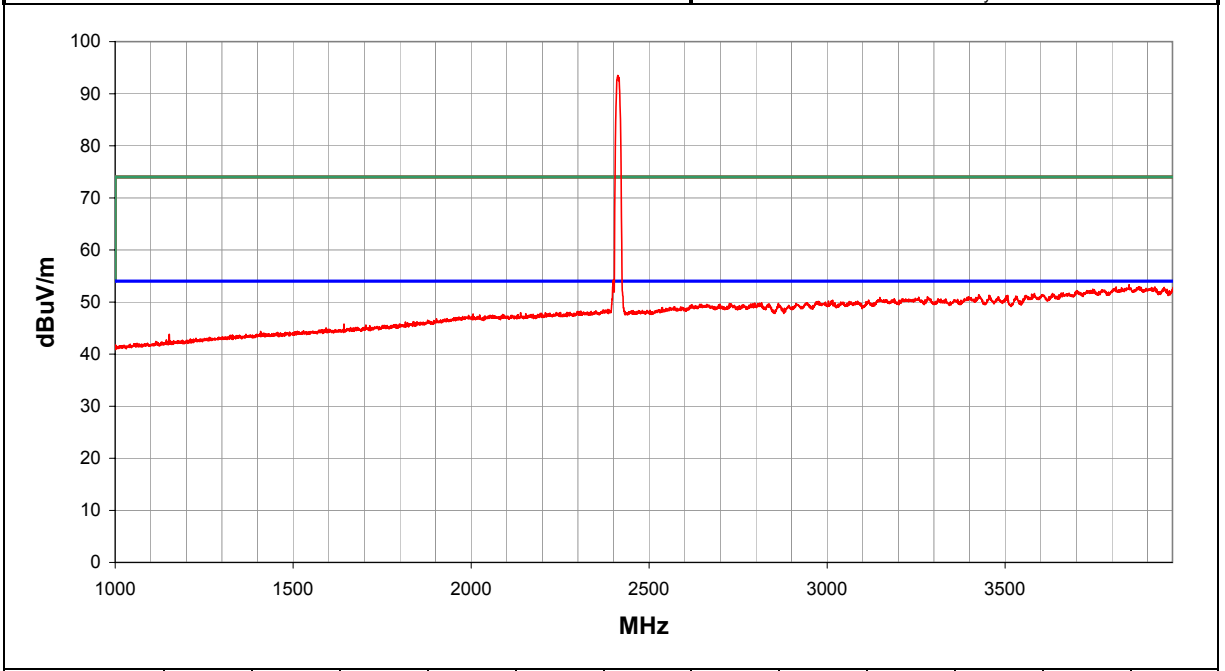
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
2412.088	73.4	32.5	0.0	30.0	2.6	20.0	V		0.0	93.5	74.0	19.5
2411.578	73.4	32.5	0.0	30.0	2.6	20.0	H		0.0	93.5	74.0	19.5
2399.848	34.2	32.5	0.0	30.0	2.6	20.0	V		0.0	54.3	74.0	-19.7
2398.318	33.9	32.5	0.0	30.0	2.6	20.0	H		0.0	54.0	74.0	-20.0
3848.337	28.2	32.4	0.0	33.8	3.8	20.0	V		0.0	53.3	74.0	-20.7
4001.340	27.5	32.4	0.0	34.2	3.9	20.0	V		0.0	53.2	74.0	-20.8
3995.219	27.5	32.4	0.0	34.2	3.9	20.0	H		0.0	53.2	74.0	-20.8
3425.858	27.8	32.5	0.0	32.6	3.5	20.0	V		0.0	51.4	74.0	-22.6
3454.929	27.6	32.5	0.0	32.7	3.5	20.0	H		0.0	51.3	74.0	-22.7
2815.696	28.4	32.5	0.0	30.9	3.1	20.0	H		0.0	49.9	74.0	-24.1
2791.726	28.3	32.5	0.0	30.8	3.1	20.0	V		0.0	49.7	74.0	-24.3
1151.983	29.9	33.6	0.0	25.4	2.1	20.0	V		0.0	43.8	74.0	-30.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

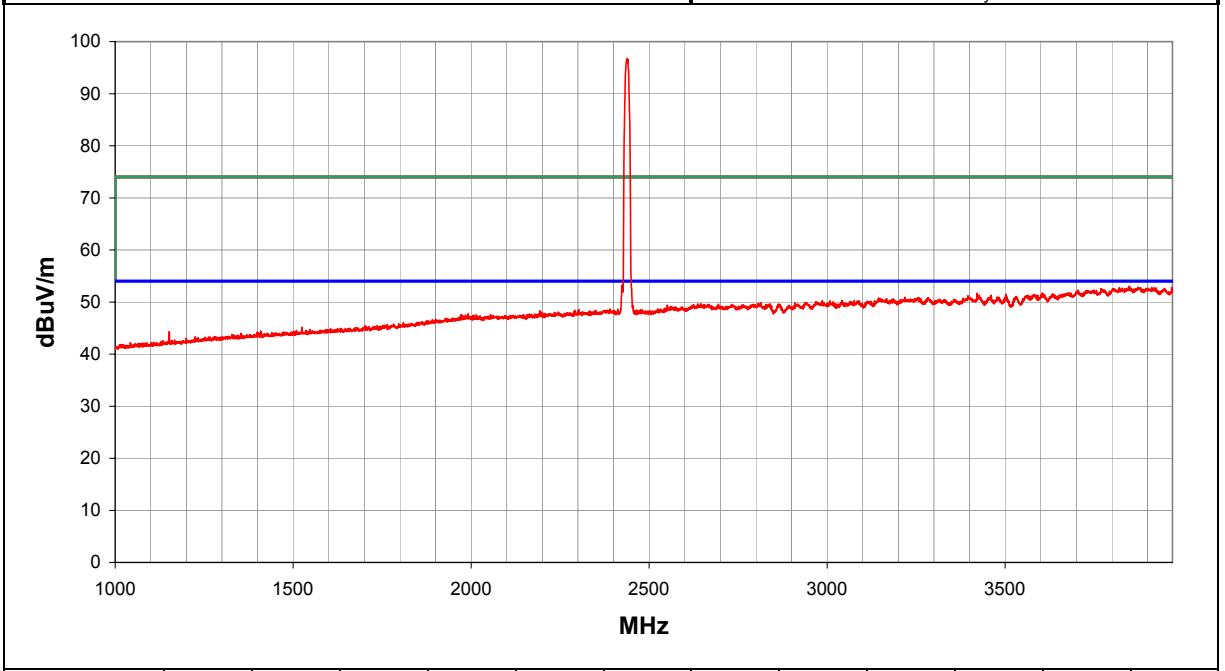
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
2438.608	76.6	32.5	0.0	30.1	2.6	20.0	H		0.0	96.7	74.0	22.7
2437.078	74.4	32.5	0.0	30.1	2.6	20.0	V		0.0	94.5	74.0	20.5
3997.260	27.4	32.4	0.0	34.2	3.9	20.0	V		0.0	53.1	74.0	-20.9
3847.827	27.9	32.4	0.0	33.8	3.8	20.0	H		0.0	53.0	74.0	-21.0
2423.818	32.6	32.5	0.0	30.0	2.6	20.0	V		0.0	52.7	74.0	-21.3
3421.778	28.1	32.5	0.0	32.6	3.5	20.0	V		0.0	51.7	74.0	-22.3
3502.360	27.6	32.4	0.0	32.8	3.5	20.0	H		0.0	51.5	74.0	-22.5
3460.029	27.6	32.5	0.0	32.7	3.5	20.0	V		0.0	51.3	74.0	-22.7
2814.166	28.4	32.5	0.0	30.9	3.1	20.0	H		0.0	49.9	74.0	-24.1
2807.026	28.3	32.5	0.0	30.9	3.1	20.0	V		0.0	49.7	74.0	-24.3
1151.983	30.4	33.6	0.0	25.4	2.1	20.0	V		0.0	44.3	74.0	-29.7

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

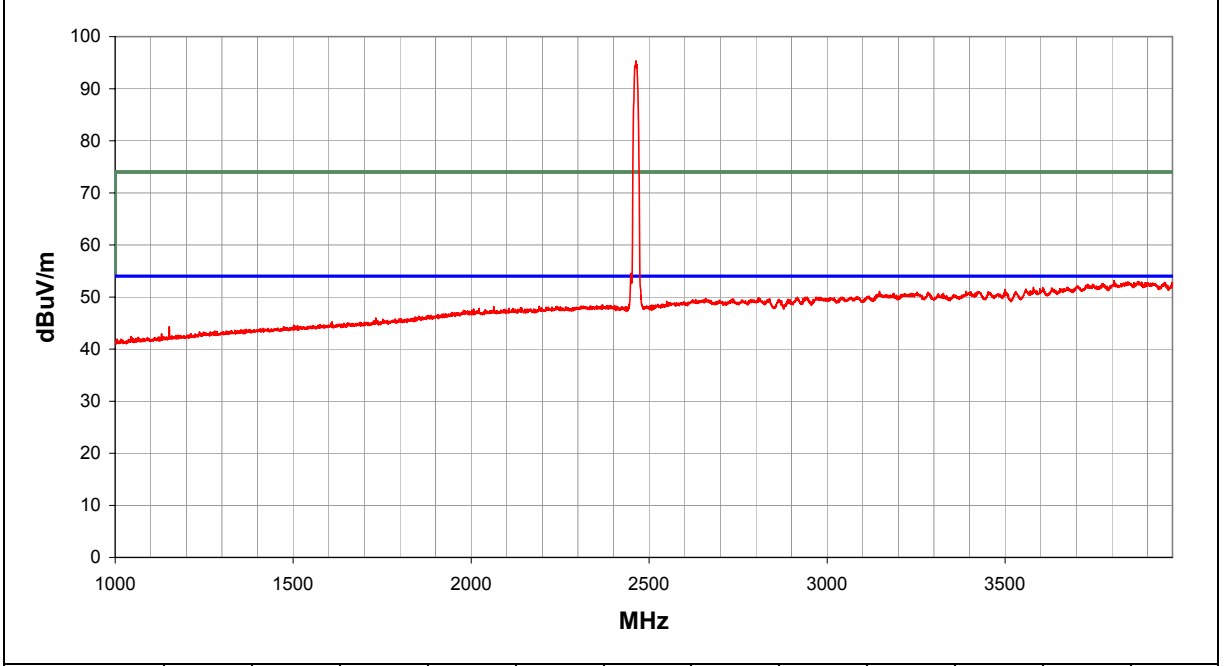
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	15

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2463.089	75.2	32.6	0.0	30.1	2.6	20.0	H		0.0	95.4	74.0	21.4
2462.069	73.5	32.6	0.0	30.1	2.6	20.0	V		0.0	93.7	74.0	19.7
3997.260	27.5	32.4	0.0	34.2	3.9	20.0	V		0.0	53.2	74.0	-20.8
3806.006	28.2	32.4	0.0	33.7	3.7	20.0	H		0.0	53.2	74.0	-20.8
3500.000	27.6	32.5	0.0	32.8	3.5	20.0	V		0.0	51.4	74.0	-22.6
3390.157	27.6	32.5	0.0	32.5	3.5	20.0	H		0.0	51.1	74.0	-22.9
2809.066	28.4	32.5	0.0	30.9	3.1	20.0	V		0.0	49.8	74.0	-24.2
2811.616	28.2	32.5	0.0	30.9	3.1	20.0	H		0.0	49.6	74.0	-24.4
1151.983	30.4	33.6	0.0	25.4	2.1	20.0	V		0.0	44.3	74.0	-29.7

NORTHWEST **EMC** **RADIATED EMISSIONS DATA SHEET** REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

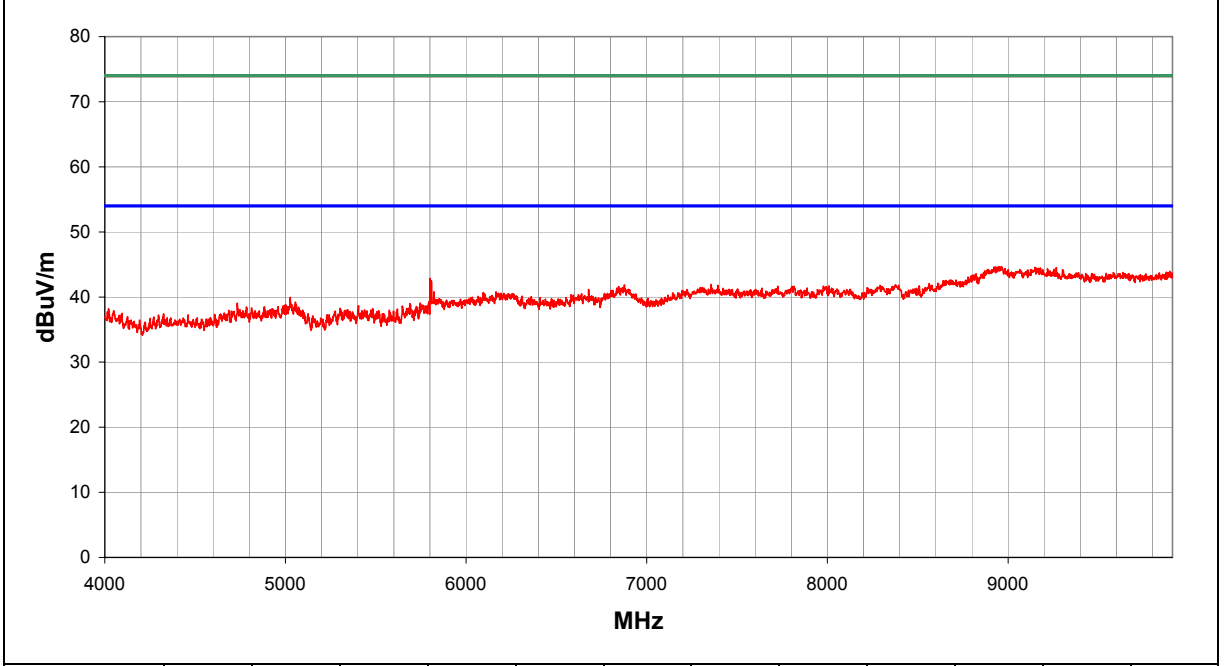
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	16

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
8965.008	29.2	31.0	0.0	40.0	6.4	0.0	V		0.0	44.7	74.0	-29.3
8949.910	29.3	31.0	0.0	40.0	6.4	0.0	H		0.0	44.7	74.0	-29.3
5800.338	33.7	32.4	0.0	36.3	5.2	0.0	V		0.0	42.9	74.0	-31.1
5802.768	33.4	32.4	0.0	36.3	5.2	0.0	H		0.0	42.6	74.0	-31.4
5801.958	33.4	32.4	0.0	36.3	5.2	0.0	H		0.0	42.6	74.0	-31.4
5807.628	33.3	32.4	0.0	36.3	5.2	0.0	H		0.0	42.5	74.0	-31.5
5806.818	33.3	32.4	0.0	36.3	5.2	0.0	H		0.0	42.5	74.0	-31.5
5804.388	33.1	32.4	0.0	36.3	5.2	0.0	V		0.0	42.3	74.0	-31.7
5803.578	33.1	32.4	0.0	36.3	5.2	0.0	V		0.0	42.3	74.0	-31.7
5806.008	33.0	32.4	0.0	36.3	5.2	0.0	V		0.0	42.2	74.0	-31.8
5801.148	32.9	32.4	0.0	36.3	5.2	0.0	H		0.0	42.1	74.0	-31.9
5807.628	32.8	32.4	0.0	36.3	5.2	0.0	V		0.0	42.0	74.0	-32.0
5806.818	32.8	32.4	0.0	36.3	5.2	0.0	V		0.0	42.0	74.0	-32.0
7356.305	31.5	33.0	0.0	37.5	5.9	0.0	V		0.0	41.9	74.0	-32.1
5806.008	32.7	32.4	0.0	36.3	5.2	0.0	H		0.0	41.9	74.0	-32.1
8376.906	29.9	32.0	0.0	37.8	6.2	0.0	H		0.0	41.9	74.0	-32.1
5801.958	32.7	32.4	0.0	36.3	5.2	0.0	V		0.0	41.9	74.0	-32.1
6876.865	32.2	33.0	0.0	36.9	5.8	0.0	V		0.0	41.9	74.0	-32.1
7394.049	31.3	32.9	0.0	37.5	5.9	0.0	H		0.0	41.8	74.0	-32.2
8379.926	29.8	32.0	0.0	37.8	6.2	0.0	V		0.0	41.8	74.0	-32.2
5804.388	32.6	32.4	0.0	36.3	5.2	0.0	H		0.0	41.8	74.0	-32.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

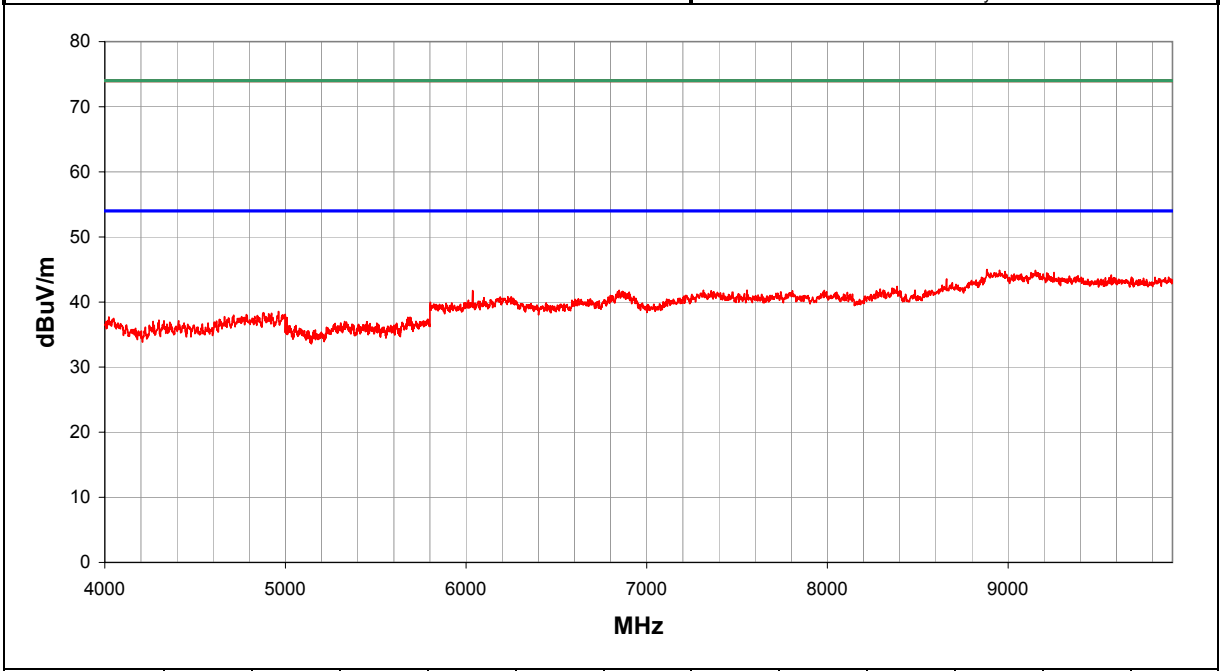
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	17

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
8883.480	30.1	31.1	0.0	39.6	6.4	0.0	V		0.0	45.0	74.0	-29.0
9150.709	29.6	30.9	0.0	39.7	6.5	0.0	H		0.0	44.8	74.0	-29.2
8660.035	30.2	31.5	0.0	38.6	6.3	0.0	V		0.0	43.6	74.0	-30.4
8385.965	30.4	32.0	0.0	37.8	6.2	0.0	V		0.0	42.4	74.0	-31.6
8358.789	30.2	32.1	0.0	37.8	6.2	0.0	H		0.0	42.1	74.0	-31.9
7555.594	31.1	32.9	0.0	37.6	6.0	0.0	V		0.0	41.8	74.0	-32.2
6847.826	32.2	33.0	0.0	36.9	5.7	0.0	H		0.0	41.8	74.0	-32.2
7982.857	30.7	32.7	0.0	37.7	6.1	0.0	H		0.0	41.8	74.0	-32.2
7314.031	31.4	33.0	0.0	37.5	5.9	0.0	V		0.0	41.8	74.0	-32.2
6035.942	32.3	32.5	0.0	36.6	5.4	0.0	V		0.0	41.8	74.0	-32.2
7806.215	30.8	32.8	0.0	37.7	6.0	0.0	H		0.0	41.7	74.0	-32.3
6903.484	31.8	33.0	0.0	37.0	5.8	0.0	V		0.0	41.5	74.0	-32.5
6230.746	31.6	32.6	0.0	36.4	5.5	0.0	V		0.0	40.8	74.0	-33.2
6188.397	31.5	32.6	0.0	36.4	5.5	0.0	H		0.0	40.8	74.0	-33.2
6098.860	31.3	32.6	0.0	36.5	5.4	0.0	V		0.0	40.7	74.0	-33.3
4962.330	31.0	31.9	0.0	35.0	4.5	0.0	V		0.0	38.5	74.0	-35.5
4877.510	31.2	32.0	0.0	34.7	4.4	0.0	V		0.0	38.4	74.0	-35.6
4881.549	31.1	32.0	0.0	34.7	4.4	0.0	H		0.0	38.3	74.0	-35.7
4713.928	31.5	32.0	0.0	34.2	4.3	0.0	H		0.0	38.0	74.0	-36.0
4663.439	31.5	32.1	0.0	34.0	4.3	0.0	V		0.0	37.8	74.0	-36.2
4988.584	30.1	31.9	0.0	35.1	4.5	0.0	H		0.0	37.8	74.0	-36.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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, Yagi antenna

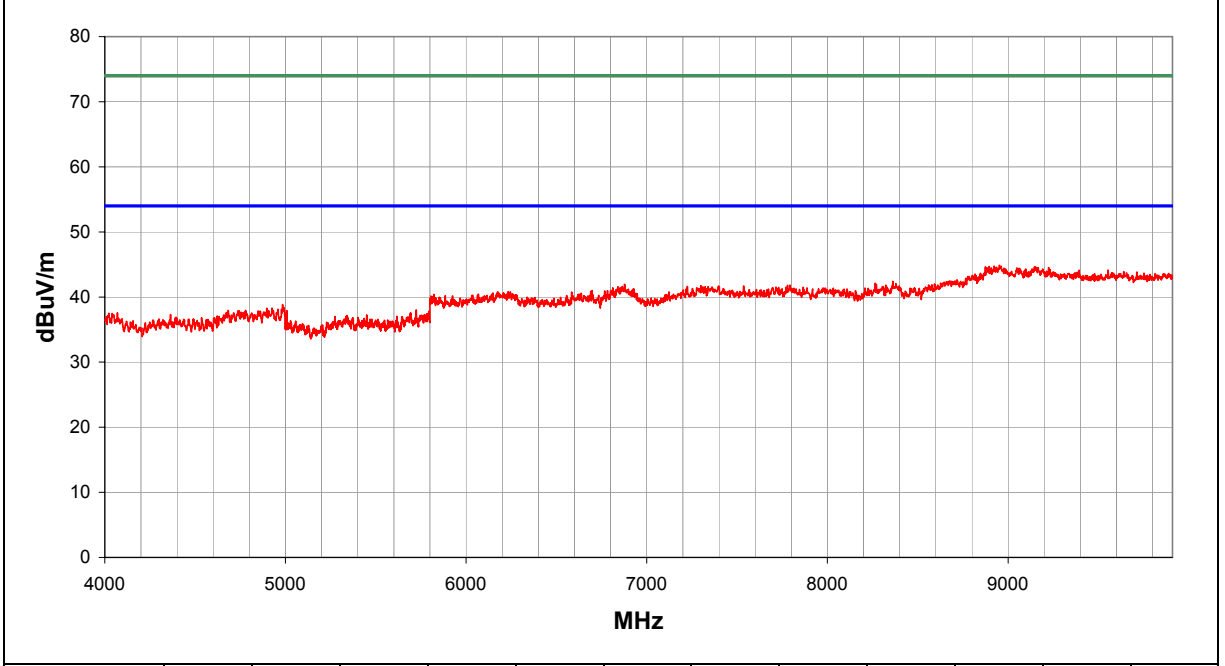
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	18

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
8952.930	29.5	31.0	0.0	40.0	6.4	0.0	H		0.0	44.9	74.0	-29.1
8961.988	29.3	31.0	0.0	40.0	6.4	0.0	V		0.0	44.7	74.0	-29.3
9991.648	29.7	30.9	0.0	38.6	6.8	0.0	V		0.0	44.2	74.0	-29.8
9976.551	29.7	30.9	0.0	38.6	6.8	0.0	H		0.0	44.2	74.0	-29.8
9553.816	29.9	30.9	0.0	38.5	6.6	0.0	V		0.0	44.1	74.0	-29.9
8361.809	30.5	32.0	0.0	37.8	6.2	0.0	V		0.0	42.4	74.0	-31.6
6876.865	32.3	33.0	0.0	36.9	5.8	0.0	H		0.0	42.0	74.0	-32.0
6879.285	32.2	33.0	0.0	36.9	5.8	0.0	V		0.0	41.9	74.0	-32.1
7794.137	30.9	32.8	0.0	37.7	6.0	0.0	V		0.0	41.8	74.0	-32.2
7298.934	31.4	33.0	0.0	37.4	5.9	0.0	V		0.0	41.7	74.0	-32.3
8398.043	29.7	32.0	0.0	37.8	6.2	0.0	H		0.0	41.7	74.0	-32.3
7794.137	30.8	32.8	0.0	37.7	6.0	0.0	H		0.0	41.7	74.0	-32.3
7398.578	31.2	32.9	0.0	37.5	5.9	0.0	H		0.0	41.7	74.0	-32.3
7975.309	30.3	32.7	0.0	37.7	6.1	0.0	H		0.0	41.4	74.0	-32.6
6697.791	31.7	32.9	0.0	36.5	5.7	0.0	H		0.0	41.0	74.0	-33.0
6233.166	31.6	32.6	0.0	36.4	5.5	0.0	V		0.0	40.8	74.0	-33.2
6584.055	31.7	32.9	0.0	36.3	5.6	0.0	V		0.0	40.8	74.0	-33.2
6175.088	31.4	32.6	0.0	36.4	5.5	0.0	H		0.0	40.7	74.0	-33.3
5821.779	31.2	32.4	0.0	36.4	5.2	0.0	H		0.0	40.4	74.0	-33.6
4984.545	31.2	31.9	0.0	35.1	4.5	0.0	V		0.0	38.8	74.0	-35.2
4925.979	30.9	31.9	0.0	34.9	4.5	0.0	H		0.0	38.3	74.0	-35.7

# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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

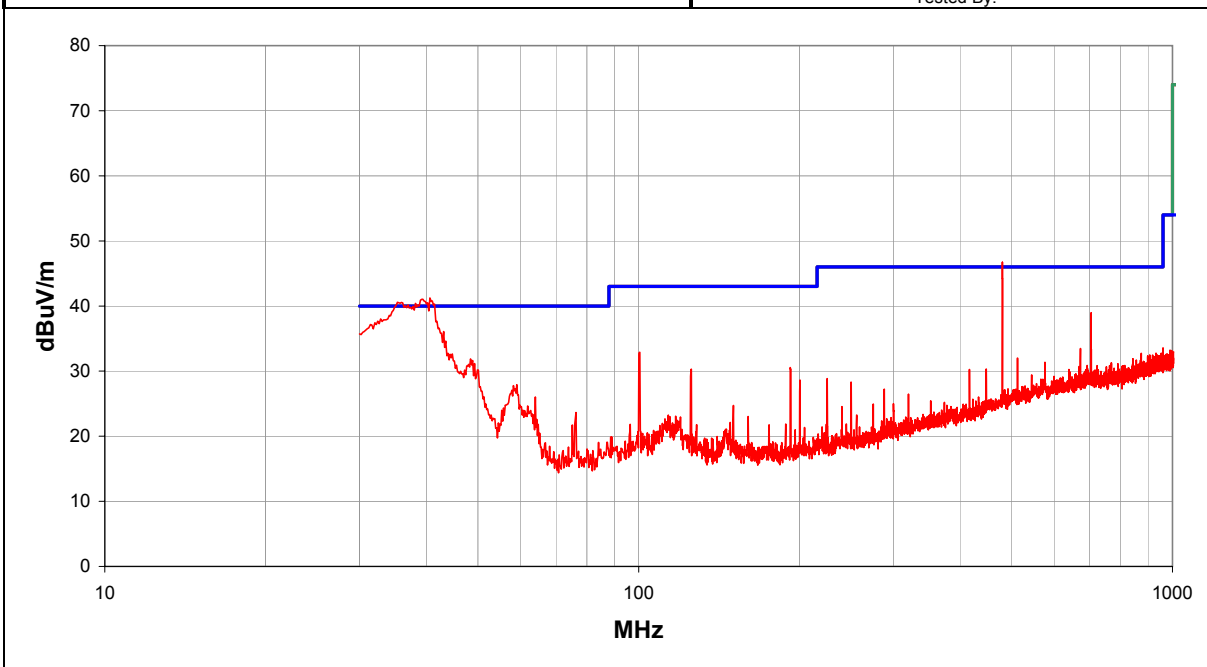
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
40.660	52.4	29.7	0.0	8.1	0.4	10.0	V		0.0	41.2	40.0	1.2
480.162	47.0	29.1	0.0	17.6	1.2	10.0	V		0.0	46.7	46.0	0.7
480.162	42.2	29.1	0.0	17.6	1.2	10.0	H		0.0	41.9	46.0	-4.1
704.187	35.7	29.9	0.0	21.7	1.5	10.0	V		0.0	39.0	46.0	-7.0
48.450	44.2	29.6	0.0	6.8	0.5	10.0	V		0.0	31.9	40.0	-8.1
100.316	42.0	29.3	0.0	9.6	0.6	10.0	V		0.0	32.9	43.0	-10.1
59.110	39.9	29.5	0.0	7.1	0.5	10.0	H		0.0	27.9	40.0	-12.1
192.361	38.8	29.2	0.0	10.2	0.8	10.0	H		0.0	30.6	43.0	-12.4
672.240	30.6	29.8	0.0	21.2	1.5	10.0	H		0.0	33.5	46.0	-12.5
125.531	40.4	29.3	0.0	8.5	0.7	10.0	H		0.0	30.3	43.0	-12.7
672.240	30.3	29.8	0.0	21.2	1.5	10.0	V		0.0	33.2	46.0	-12.8
952.533	27.2	29.9	0.0	23.7	1.8	10.0	H		0.0	32.8	46.0	-13.2
931.621	27.5	30.0	0.0	23.6	1.7	10.0	H		0.0	32.8	46.0	-13.2
873.806	28.4	30.2	0.0	22.9	1.7	10.0	H		0.0	32.7	46.0	-13.3
935.311	27.2	30.0	0.0	23.6	1.7	10.0	H		0.0	32.5	46.0	-13.5
906.609	27.6	30.2	0.0	23.4	1.7	10.0	H		0.0	32.5	46.0	-13.5
953.763	26.9	29.9	0.0	23.7	1.8	10.0	V		0.0	32.5	46.0	-13.5
917.680	27.4	30.1	0.0	23.4	1.7	10.0	H		0.0	32.5	46.0	-13.5
959.503	26.7	29.9	0.0	23.8	1.8	10.0	H		0.0	32.4	46.0	-13.6
944.332	26.9	30.0	0.0	23.7	1.7	10.0	H		0.0	32.3	46.0	-13.7
950.483	26.8	29.9	0.0	23.7	1.8	10.0	V		0.0	32.3	46.0	-13.7

# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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

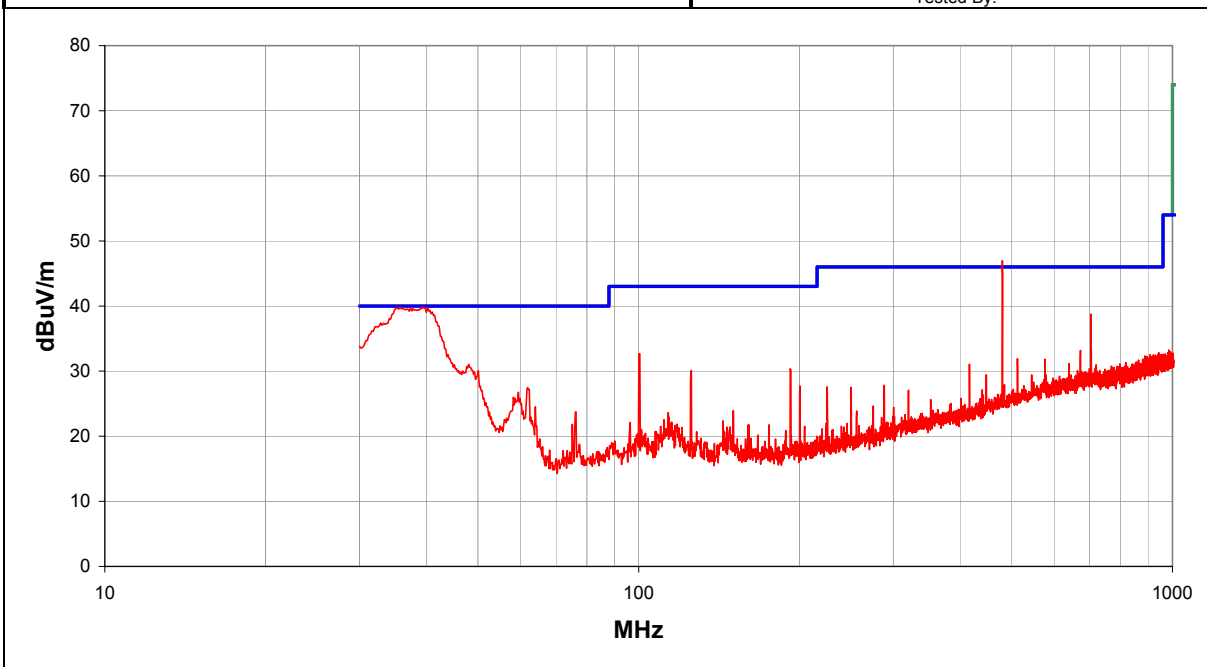
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
480.162	47.2	29.1	0.0	17.6	1.2	10.0	V		0.0	46.9	46.0	0.9
39.430	50.7	29.7	0.0	8.4	0.4	10.0	V		0.0	39.8	40.0	-0.2
480.162	42.1	29.1	0.0	17.6	1.2	10.0	H		0.0	41.8	46.0	-4.2
704.187	35.5	29.9	0.0	21.7	1.5	10.0	V		0.0	38.8	46.0	-7.2
100.316	41.8	29.3	0.0	9.6	0.6	10.0	V		0.0	32.7	43.0	-10.3
61.980	39.1	29.5	0.0	7.4	0.5	10.0	V		0.0	27.4	40.0	-12.6
192.361	38.6	29.2	0.0	10.2	0.8	10.0	H		0.0	30.4	43.0	-12.6
672.240	30.3	29.8	0.0	21.2	1.5	10.0	H		0.0	33.2	46.0	-12.8
672.240	30.3	29.8	0.0	21.2	1.5	10.0	V		0.0	33.2	46.0	-12.8
125.531	40.2	29.3	0.0	8.5	0.7	10.0	H		0.0	30.1	43.0	-12.9
942.282	27.4	30.0	0.0	23.6	1.7	10.0	V		0.0	32.8	46.0	-13.2
59.520	38.7	29.5	0.0	7.1	0.5	10.0	H		0.0	26.8	40.0	-13.2
940.642	27.2	30.0	0.0	23.6	1.7	10.0	V		0.0	32.6	46.0	-13.4
951.303	27.0	29.9	0.0	23.7	1.8	10.0	H		0.0	32.5	46.0	-13.5
908.659	27.6	30.2	0.0	23.4	1.7	10.0	H		0.0	32.5	46.0	-13.5
920.960	27.4	30.1	0.0	23.5	1.7	10.0	V		0.0	32.5	46.0	-13.5
953.763	26.9	29.9	0.0	23.7	1.8	10.0	V		0.0	32.5	46.0	-13.5
929.571	27.2	30.0	0.0	23.5	1.7	10.0	H		0.0	32.4	46.0	-13.6
925.060	27.2	30.1	0.0	23.5	1.7	10.0	H		0.0	32.4	46.0	-13.6
888.157	27.7	30.2	0.0	23.1	1.7	10.0	V		0.0	32.3	46.0	-13.7
938.182	26.9	30.0	0.0	23.6	1.7	10.0	H		0.0	32.3	46.0	-13.7



# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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

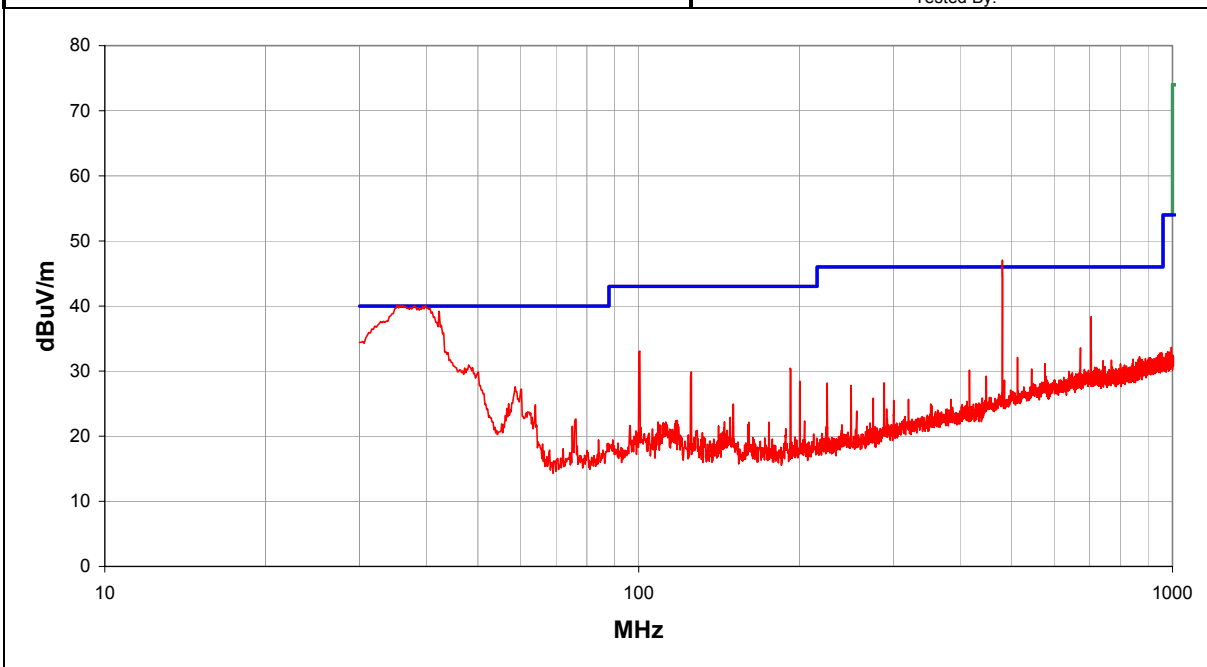
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
480.162	47.3	29.1	0.0	17.6	1.2	10.0	V		0.0	47.0	46.0	1.0
35.330	49.5	29.7	0.0	10.0	0.4	10.0	V		0.0	40.2	40.0	0.2
42.300	50.6	29.7	0.0	7.8	0.4	10.0	V		0.0	39.2	40.0	-0.8
480.162	42.0	29.1	0.0	17.6	1.2	10.0	H		0.0	41.7	46.0	-4.3
704.187	35.1	29.9	0.0	21.7	1.5	10.0	V		0.0	38.4	46.0	-7.6
100.521	42.2	29.3	0.0	9.6	0.6	10.0	V		0.0	33.1	43.0	-9.9
58.700	39.6	29.5	0.0	7.0	0.5	10.0	V		0.0	27.6	40.0	-12.4
672.240	30.7	29.8	0.0	21.2	1.5	10.0	V		0.0	33.6	46.0	-12.4
192.361	38.7	29.2	0.0	10.2	0.8	10.0	H		0.0	30.5	43.0	-12.5
672.240	30.3	29.8	0.0	21.2	1.5	10.0	H		0.0	33.2	46.0	-12.8
125.531	40.0	29.3	0.0	8.5	0.7	10.0	H		0.0	29.9	43.0	-13.1
948.432	27.3	29.9	0.0	23.7	1.7	10.0	H		0.0	32.8	46.0	-13.2
954.173	27.2	29.9	0.0	23.7	1.8	10.0	V		0.0	32.8	46.0	-13.2
955.403	27.1	29.9	0.0	23.7	1.8	10.0	H		0.0	32.7	46.0	-13.3
943.102	27.1	30.0	0.0	23.6	1.7	10.0	V		0.0	32.5	46.0	-13.5
953.763	26.8	29.9	0.0	23.7	1.8	10.0	V		0.0	32.4	46.0	-13.6
939.002	27.0	30.0	0.0	23.6	1.7	10.0	V		0.0	32.4	46.0	-13.6
938.182	26.9	30.0	0.0	23.6	1.7	10.0	V		0.0	32.3	46.0	-13.7
867.656	28.0	30.2	0.0	22.8	1.7	10.0	H		0.0	32.2	46.0	-13.8
954.993	26.6	29.9	0.0	23.7	1.8	10.0	H		0.0	32.2	46.0	-13.8
952.533	26.6	29.9	0.0	23.7	1.8	10.0	V		0.0	32.2	46.0	-13.8

# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 15.247 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**  
 no transmit - both radios off, flat panel antenna

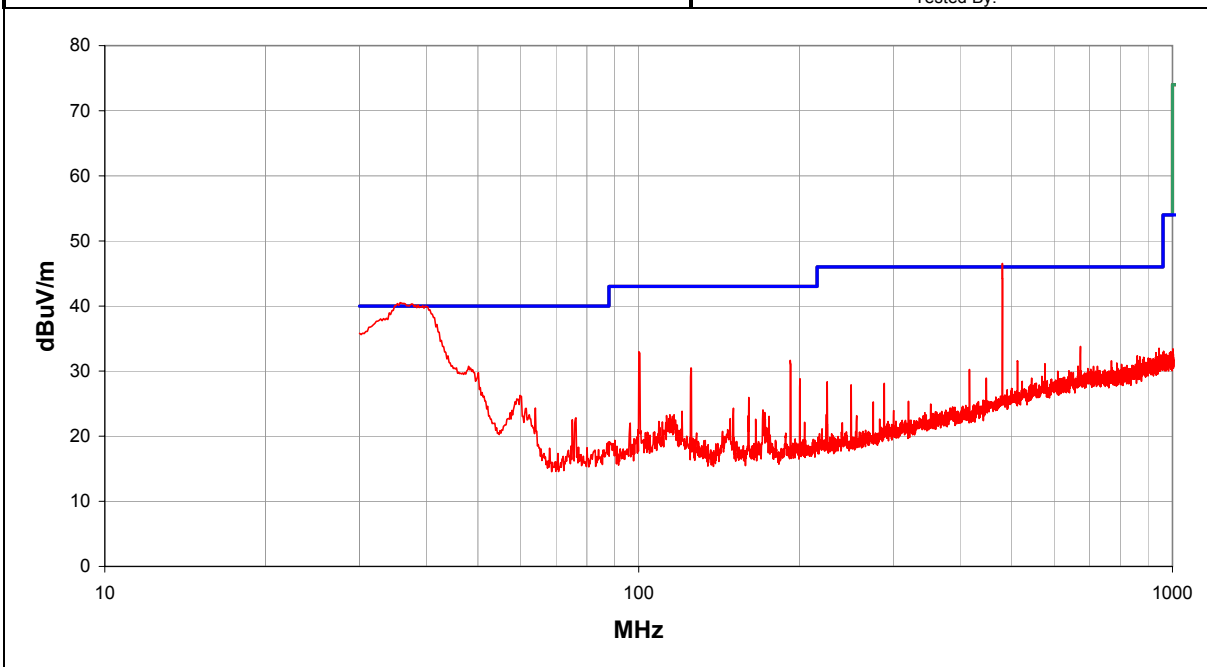
**EUT OPERATING MODES**  
 no transmit

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	23

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
35.740	50.0	29.7	0.0	9.9	0.4	10.0	V		0.0	40.5	40.0	0.5
480.162	46.8	29.1	0.0	17.6	1.2	10.0	V		0.0	46.5	46.0	0.5
480.162	42.0	29.1	0.0	17.6	1.2	10.0	H		0.0	41.7	46.0	-4.3
100.111	42.1	29.3	0.0	9.6	0.6	10.0	V		0.0	33.0	43.0	-10.0
192.361	39.9	29.2	0.0	10.2	0.8	10.0	H		0.0	31.7	43.0	-11.3
672.240	30.9	29.8	0.0	21.2	1.5	10.0	V		0.0	33.8	46.0	-12.2
672.240	30.8	29.8	0.0	21.2	1.5	10.0	H		0.0	33.7	46.0	-12.3
943.922	28.1	30.0	0.0	23.7	1.7	10.0	H		0.0	33.5	46.0	-12.5
125.326	40.6	29.3	0.0	8.5	0.7	10.0	H		0.0	30.5	43.0	-12.5
930.801	27.6	30.0	0.0	23.5	1.7	10.0	V		0.0	32.8	46.0	-13.2
952.533	26.9	29.9	0.0	23.7	1.8	10.0	V		0.0	32.5	46.0	-13.5
943.512	27.0	30.0	0.0	23.6	1.7	10.0	H		0.0	32.4	46.0	-13.6
949.663	26.9	29.9	0.0	23.7	1.7	10.0	H		0.0	32.4	46.0	-13.6
959.913	26.7	29.9	0.0	23.8	1.8	10.0	H		0.0	32.4	46.0	-13.6
859.045	28.3	30.2	0.0	22.6	1.7	10.0	H		0.0	32.4	46.0	-13.6
59.930	38.2	29.5	0.0	7.1	0.5	10.0	V		0.0	26.3	40.0	-13.7
868.476	28.0	30.2	0.0	22.8	1.7	10.0	H		0.0	32.2	46.0	-13.8
939.822	26.8	30.0	0.0	23.6	1.7	10.0	V		0.0	32.2	46.0	-13.8
938.182	26.8	30.0	0.0	23.6	1.7	10.0	H		0.0	32.2	46.0	-13.8
929.161	26.9	30.0	0.0	23.5	1.7	10.0	H		0.0	32.1	46.0	-13.9
934.901	26.8	30.0	0.0	23.6	1.7	10.0	V		0.0	32.1	46.0	-13.9

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/25/02
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 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

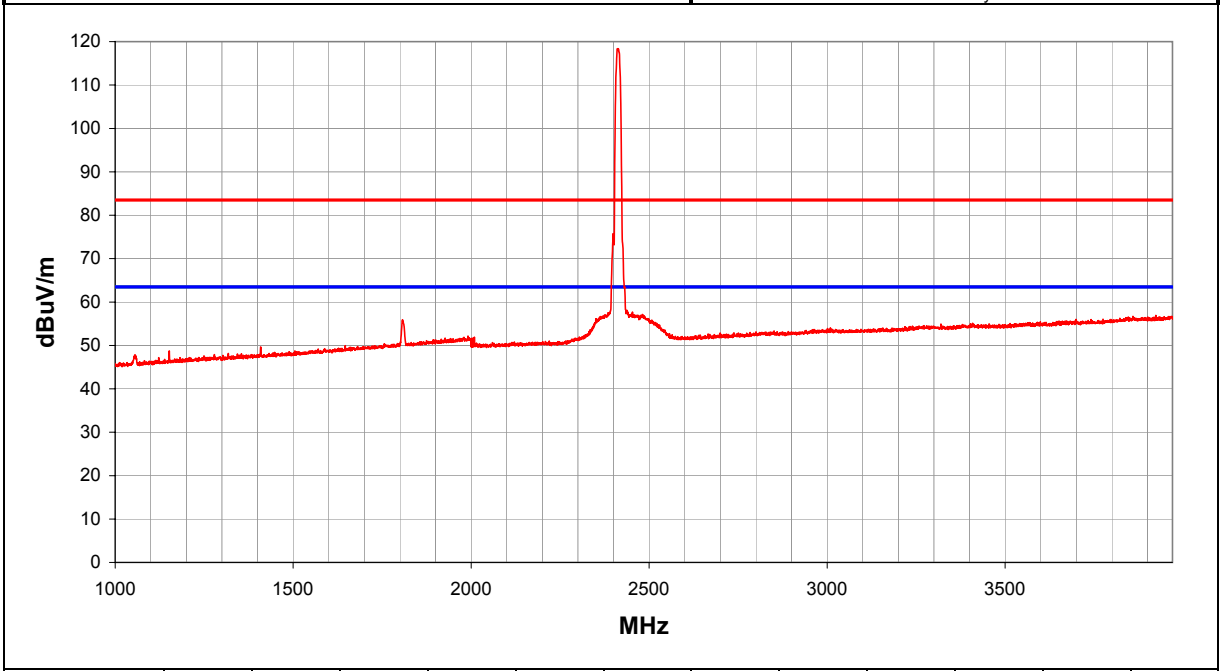
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2413.108	85.8	0.0	0.0	30.0	2.6	0.0	H		0.0	118.4	83.5	34.9
2413.618	85.7	0.0	0.0	30.0	2.6	0.0	V		0.0	118.3	83.5	34.8
2398.828	43.2	0.0	0.0	30.0	2.6	0.0	H		0.0	75.8	83.5	-7.7
2398.828	43.0	0.0	0.0	30.0	2.6	0.0	V		0.0	75.6	83.5	-7.9
3989.609	18.9	0.0	0.0	34.2	3.9	0.0	V		0.0	57.0	83.5	-26.5
3989.099	18.9	0.0	0.0	34.2	3.9	0.0	H		0.0	57.0	83.5	-26.5
1807.026	25.4	0.0	0.0	28.2	2.3	0.0	H		0.0	55.9	83.5	-27.6
1806.516	25.1	0.0	0.0	28.2	2.3	0.0	V		0.0	55.6	83.5	-27.9
1991.139	20.6	0.0	0.0	29.1	2.5	0.0	V		0.0	52.2	83.5	-31.3
2008.990	20.3	0.0	0.0	29.1	2.5	0.0	H		0.0	51.9	83.5	-31.6
1979.919	20.4	0.0	0.0	29.0	2.5	0.0	H		0.0	51.9	83.5	-31.6
2007.970	20.1	0.0	0.0	29.1	2.5	0.0	V		0.0	51.7	83.5	-31.8
2000.320	20.0	0.0	0.0	29.1	2.5	0.0	V		0.0	51.6	83.5	-31.9
1408.518	21.1	0.0	0.0	26.4	2.2	0.0	V		0.0	49.7	83.5	-33.8
1409.028	21.0	0.0	0.0	26.4	2.2	0.0	H		0.0	49.6	83.5	-33.9
1151.983	21.2	0.0	0.0	25.4	2.1	0.0	V		0.0	48.7	83.5	-34.8
1151.983	20.6	0.0	0.0	25.4	2.1	0.0	H		0.0	48.1	83.5	-35.4
1055.591	20.8	0.0	0.0	25.1	2.0	0.0	H		0.0	47.9	83.5	-35.6
1055.591	20.7	0.0	0.0	25.1	2.0	0.0	V		0.0	47.8	83.5	-35.7

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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 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

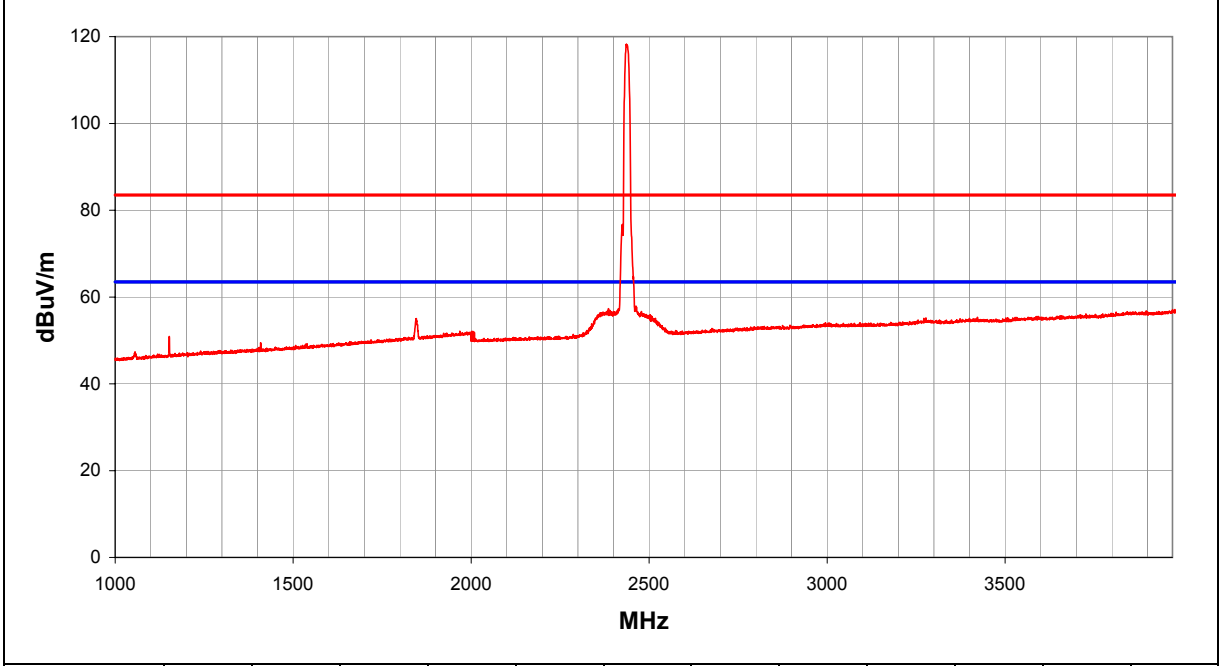
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2436.568	85.6	0.0	0.0	30.1	2.6	0.0	V		0.0	118.2	83.5	34.7
2435.548	64.8	0.0	0.0	30.1	2.6	0.0	H		0.0	97.4	83.5	13.9
2424.838	44.1	0.0	0.0	30.0	2.6	0.0	V		0.0	76.7	83.5	-6.8
3992.159	19.1	0.0	0.0	34.2	3.9	0.0	H		0.0	57.2	83.5	-26.3
3988.589	19.1	0.0	0.0	34.2	3.9	0.0	V		0.0	57.2	83.5	-26.3
1845.787	24.3	0.0	0.0	28.4	2.4	0.0	V		0.0	55.0	83.5	-28.5
1968.189	20.7	0.0	0.0	28.9	2.5	0.0	H		0.0	52.1	83.5	-31.4
2004.400	20.5	0.0	0.0	29.1	2.5	0.0	H		0.0	52.1	83.5	-31.4
2000.830	20.5	0.0	0.0	29.1	2.5	0.0	H		0.0	52.1	83.5	-31.4
2002.870	20.4	0.0	0.0	29.1	2.5	0.0	H		0.0	52.0	83.5	-31.5
2007.460	20.3	0.0	0.0	29.1	2.5	0.0	H		0.0	51.9	83.5	-31.6
2008.990	20.2	0.0	0.0	29.1	2.5	0.0	V		0.0	51.8	83.5	-31.7
2002.870	20.2	0.0	0.0	29.1	2.5	0.0	V		0.0	51.8	83.5	-31.7
1151.983	23.4	0.0	0.0	25.4	2.1	0.0	V		0.0	50.9	83.5	-32.6
1408.518	20.9	0.0	0.0	26.4	2.2	0.0	V		0.0	49.5	83.5	-34.0

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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 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

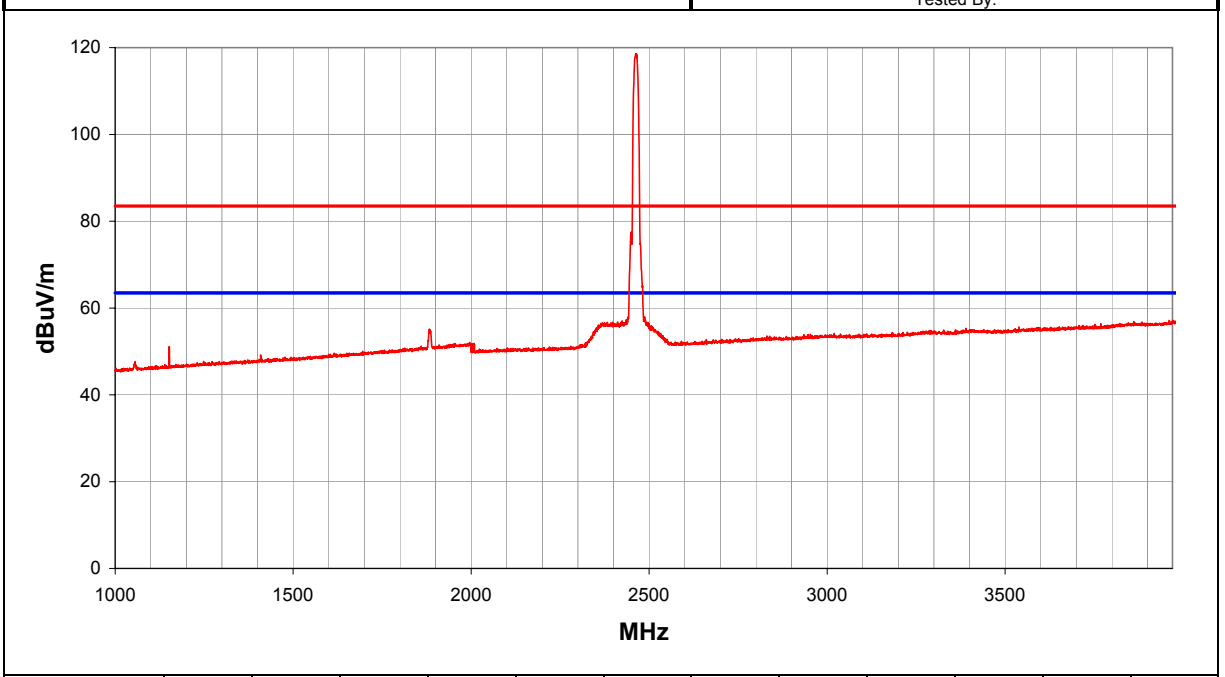
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
2463.599	85.9	0.0	0.0	30.1	2.6	0.0	V		0.0	118.6	83.5	35.1
2462.069	65.4	0.0	0.0	30.1	2.6	0.0	H		0.0	98.1	83.5	14.6
2449.319	44.8	0.0	0.0	30.1	2.6	0.0	V		0.0	77.5	83.5	-6.0
3970.739	19.2	0.0	0.0	34.1	3.9	0.0	H		0.0	57.2	83.5	-26.3
3961.049	19.2	0.0	0.0	34.1	3.9	0.0	V		0.0	57.2	83.5	-26.3
1882.507	24.2	0.0	0.0	28.5	2.4	0.0	V		0.0	55.1	83.5	-28.4
1995.729	20.5	0.0	0.0	29.1	2.5	0.0	H		0.0	52.1	83.5	-31.4
2007.970	20.2	0.0	0.0	29.1	2.5	0.0	H		0.0	51.8	83.5	-31.7
2006.440	20.2	0.0	0.0	29.1	2.5	0.0	H		0.0	51.8	83.5	-31.7
2008.990	20.0	0.0	0.0	29.1	2.5	0.0	V		0.0	51.6	83.5	-31.9
1151.983	23.6	0.0	0.0	25.4	2.1	0.0	V		0.0	51.1	83.5	-32.4
1151.983	20.8	0.0	0.0	25.4	2.1	0.0	H		0.0	48.3	83.5	-35.2
1056.101	20.6	0.0	0.0	25.1	2.0	0.0	V		0.0	47.7	83.5	-35.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, flat panel antenna

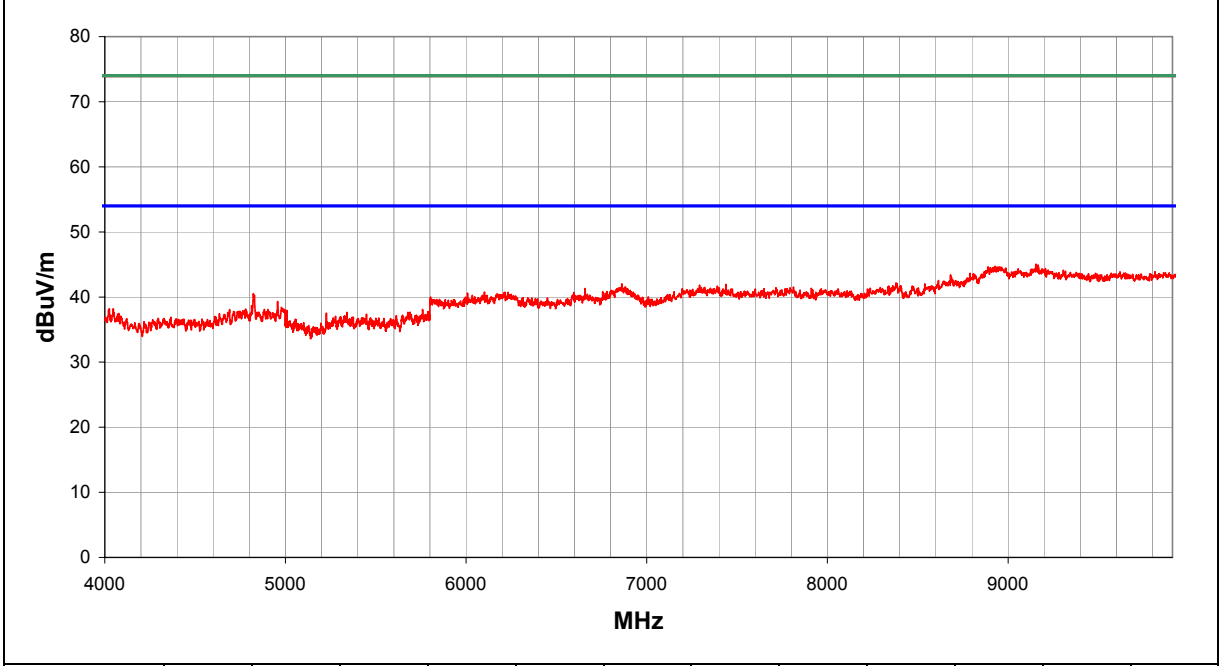
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
9153.729	29.8	30.9	0.0	39.7	6.5	0.0	V		0.0	45.0	74.0	-29.0
9158.258	29.7	30.9	0.0	39.7	6.5	0.0	H		0.0	44.9	74.0	-29.1
8943.871	29.3	31.0	0.0	39.9	6.4	0.0	H		0.0	44.6	74.0	-29.4
9979.570	29.6	30.9	0.0	38.6	6.8	0.0	V		0.0	44.1	74.0	-29.9
8379.926	30.2	32.0	0.0	37.8	6.2	0.0	H		0.0	42.2	74.0	-31.8
8385.965	30.1	32.0	0.0	37.8	6.2	0.0	V		0.0	42.1	74.0	-31.9
6862.346	32.4	33.0	0.0	36.9	5.7	0.0	V		0.0	42.0	74.0	-32.0
7437.832	31.4	32.9	0.0	37.6	5.9	0.0	H		0.0	42.0	74.0	-32.0
7292.895	31.5	33.0	0.0	37.4	5.9	0.0	V		0.0	41.8	74.0	-32.2
6881.705	31.9	33.0	0.0	36.9	5.8	0.0	H		0.0	41.6	74.0	-32.4
6659.072	32.1	32.9	0.0	36.4	5.7	0.0	V		0.0	41.3	74.0	-32.7
6101.280	31.4	32.6	0.0	36.5	5.4	0.0	V		0.0	40.8	74.0	-33.2
6213.807	31.5	32.6	0.0	36.4	5.5	0.0	V		0.0	40.7	74.0	-33.3
6208.967	31.4	32.6	0.0	36.4	5.5	0.0	H		0.0	40.6	74.0	-33.4
4822.982	33.6	32.0	0.0	34.5	4.4	0.0	V		0.0	40.5	74.0	-33.5
4825.002	33.1	32.0	0.0	34.5	4.4	0.0	H		0.0	40.0	74.0	-34.0
4956.271	31.8	31.9	0.0	35.0	4.5	0.0	V		0.0	39.3	74.0	-34.7
4024.240	32.5	32.4	0.0	34.1	3.9	0.0	V		0.0	38.2	74.0	-35.8
4046.460	32.5	32.4	0.0	34.1	3.9	0.0	H		0.0	38.2	74.0	-35.8
4988.584	30.5	31.9	0.0	35.1	4.5	0.0	H		0.0	38.2	74.0	-35.8
4903.764	30.8	31.9	0.0	34.8	4.4	0.0	H		0.0	38.1	74.0	-35.9

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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**  
 mid channel, flat panel antenna

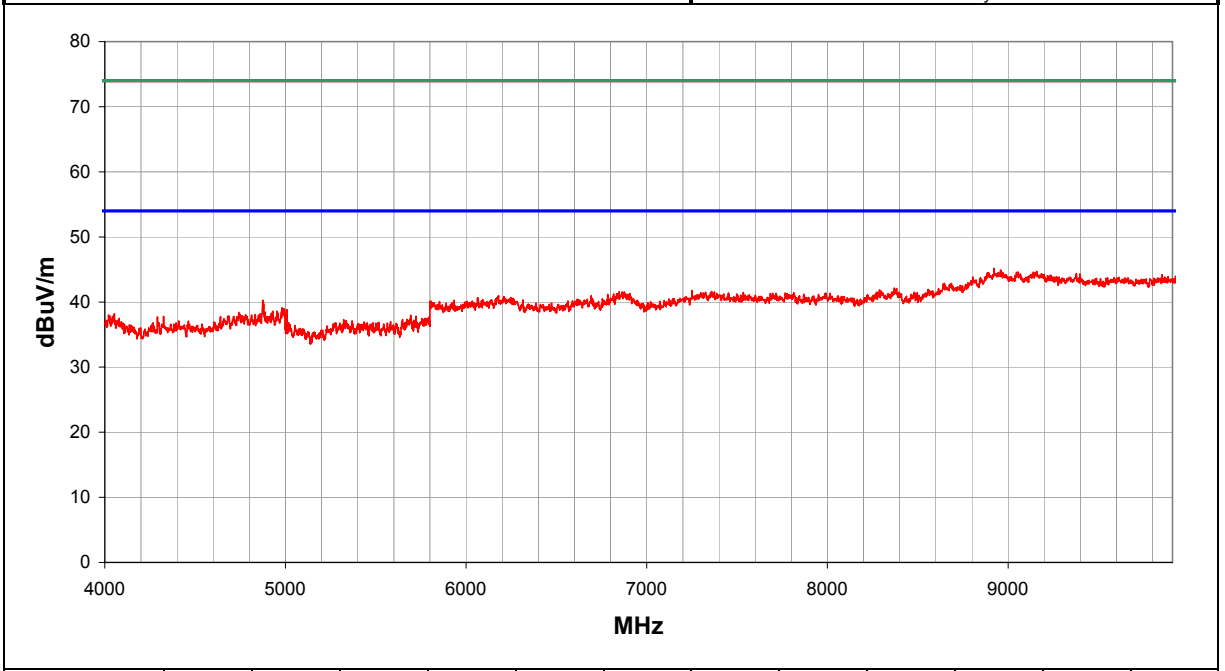
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8922.734	30.0	31.0	0.0	39.8	6.4	0.0	V		0.0	45.2	74.0	-28.8
8958.969	29.5	31.0	0.0	40.0	6.4	0.0	H		0.0	44.9	74.0	-29.1
9158.258	29.5	30.9	0.0	39.7	6.5	0.0	H		0.0	44.7	74.0	-29.3
9852.750	29.8	30.9	0.0	38.6	6.7	0.0	V		0.0	44.2	74.0	-29.8
8370.867	30.2	32.0	0.0	37.8	6.2	0.0	V		0.0	42.2	74.0	-31.8
8382.945	30.1	32.0	0.0	37.8	6.2	0.0	H		0.0	42.1	74.0	-31.9
7250.621	31.5	33.0	0.0	37.4	5.9	0.0	V		0.0	41.8	74.0	-32.2
6847.826	32.0	33.0	0.0	36.9	5.7	0.0	H		0.0	41.6	74.0	-32.4
7298.934	31.1	33.0	0.0	37.4	5.9	0.0	H		0.0	41.4	74.0	-32.6
7990.406	30.3	32.7	0.0	37.7	6.1	0.0	H		0.0	41.4	74.0	-32.6
6872.025	31.7	33.0	0.0	36.9	5.7	0.0	V		0.0	41.3	74.0	-32.7
6692.951	31.7	32.9	0.0	36.5	5.7	0.0	H		0.0	41.0	74.0	-33.0
6179.928	31.7	32.6	0.0	36.4	5.5	0.0	H		0.0	41.0	74.0	-33.0
6208.967	31.6	32.6	0.0	36.4	5.5	0.0	V		0.0	40.8	74.0	-33.2
4875.490	33.1	32.0	0.0	34.7	4.4	0.0	V		0.0	40.3	74.0	-33.7
5853.238	30.8	32.4	0.0	36.4	5.3	0.0	V		0.0	40.1	74.0	-33.9
4879.529	32.6	32.0	0.0	34.7	4.4	0.0	H		0.0	39.8	74.0	-34.2
4982.525	31.5	31.9	0.0	35.0	4.5	0.0	V		0.0	39.1	74.0	-34.9
5006.760	31.1	31.9	0.0	35.1	4.5	0.0	V		0.0	38.8	74.0	-35.2
5005.750	31.1	31.9	0.0	35.1	4.5	0.0	V		0.0	38.8	74.0	-35.2
5006.760	30.9	31.9	0.0	35.1	4.5	0.0	H		0.0	38.6	74.0	-35.4

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, flat panel antenna

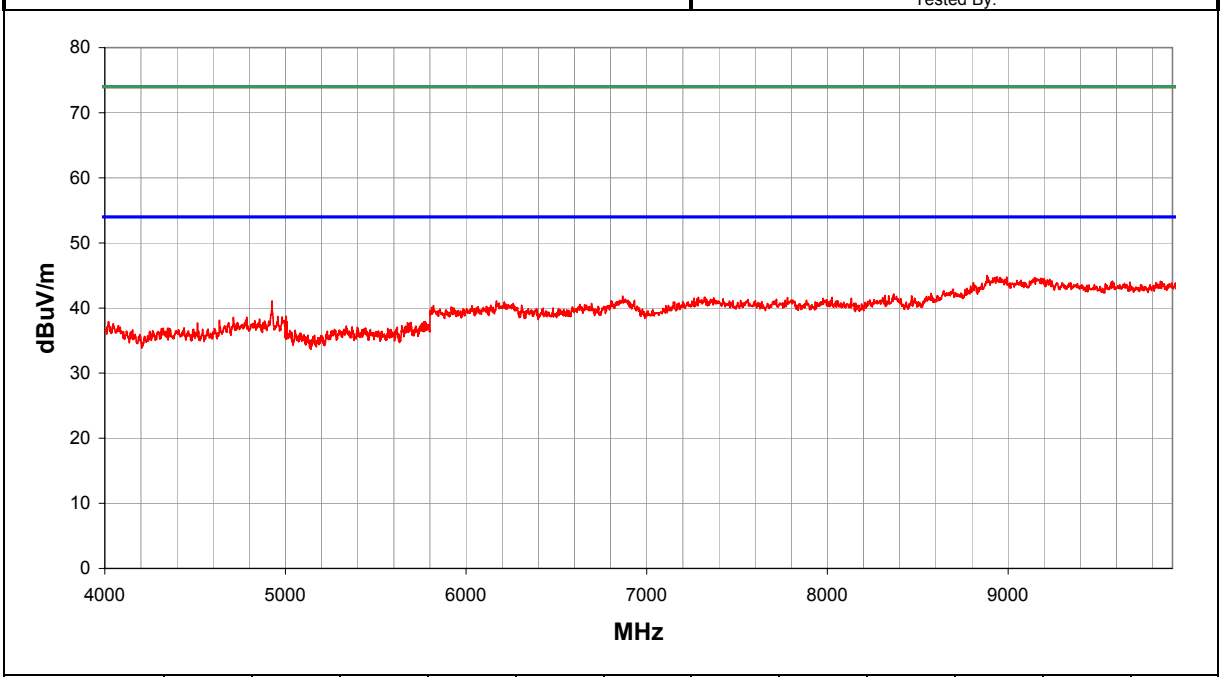
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8883.480	30.1	31.1	0.0	39.6	6.4	0.0	H		0.0	45.0	74.0	-29.0
8934.813	29.5	31.0	0.0	39.9	6.4	0.0	V		0.0	44.8	74.0	-29.2
9147.689	29.4	30.9	0.0	39.7	6.5	0.0	H		0.0	44.7	74.0	-29.3
8367.848	30.2	32.0	0.0	37.8	6.2	0.0	H		0.0	42.1	74.0	-31.9
8367.848	30.1	32.0	0.0	37.8	6.2	0.0	V		0.0	42.0	74.0	-32.0
8467.492	29.7	31.9	0.0	37.8	6.2	0.0	H		0.0	41.9	74.0	-32.1
6867.186	32.2	33.0	0.0	36.9	5.7	0.0	V		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
7320.070	31.3	33.0	0.0	37.5	5.9	0.0	H		0.0	41.7	74.0	-32.3
8026.641	30.5	32.7	0.0	37.7	6.1	0.0	H		0.0	41.7	74.0	-32.3
7779.039	30.7	32.8	0.0	37.7	6.0	0.0	H		0.0	41.6	74.0	-32.4
7779.039	30.7	32.8	0.0	37.7	6.0	0.0	V		0.0	41.6	74.0	-32.4
7371.402	31.1	33.0	0.0	37.5	5.9	0.0	V		0.0	41.6	74.0	-32.4
7975.309	30.4	32.7	0.0	37.7	6.1	0.0	V		0.0	41.5	74.0	-32.5
6167.828	31.8	32.6	0.0	36.4	5.5	0.0	H		0.0	41.1	74.0	-32.9
4925.979	33.7	31.9	0.0	34.9	4.5	0.0	V		0.0	41.1	74.0	-32.9
6211.387	31.7	32.6	0.0	36.4	5.5	0.0	V		0.0	40.9	74.0	-33.1
6695.371	31.4	32.9	0.0	36.5	5.7	0.0	V		0.0	40.7	74.0	-33.3
4925.979	33.2	31.9	0.0	34.9	4.5	0.0	H		0.0	40.6	74.0	-33.4
6306.974	31.3	32.7	0.0	36.3	5.5	0.0	V		0.0	40.4	74.0	-33.6
5819.359	31.2	32.4	0.0	36.3	5.2	0.0	H		0.0	40.4	74.0	-33.6



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

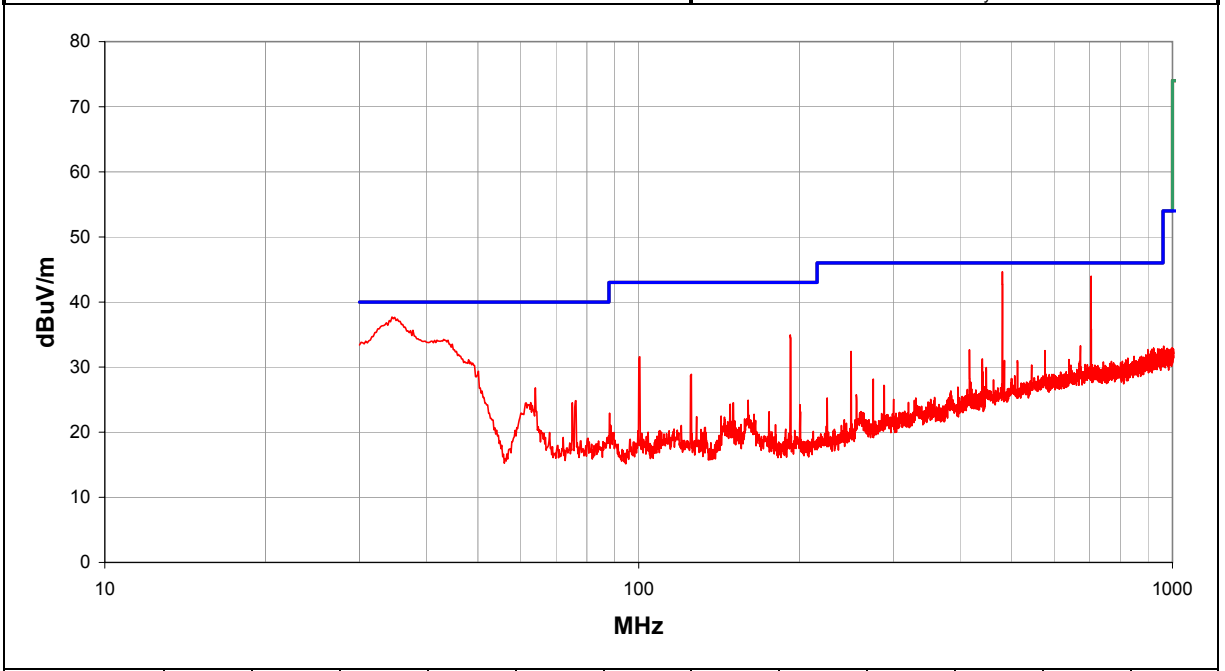
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
480.162	44.9	29.1	0.0	17.6	1.2	10.0	V		0.0	44.6	46.0	-1.4
704.187	40.7	29.9	0.0	21.7	1.5	10.0	V		0.0	44.0	46.0	-2.0
34.510	46.7	29.8	0.0	10.3	0.4	10.0	V		0.0	37.7	40.0	-2.3
704.187	40.4	29.9	0.0	21.7	1.5	10.0	H		0.0	43.7	46.0	-2.3
480.162	41.2	29.1	0.0	17.6	1.2	10.0	H		0.0	40.9	46.0	-5.1
192.361	43.2	29.2	0.0	10.2	0.8	10.0	H		0.0	35.0	43.0	-8.0
100.316	40.7	29.3	0.0	9.6	0.6	10.0	V		0.0	31.6	43.0	-11.4
672.240	30.4	29.8	0.0	21.2	1.5	10.0	V		0.0	33.3	46.0	-12.7
672.240	30.3	29.8	0.0	21.2	1.5	10.0	H		0.0	33.2	46.0	-12.8
921.780	27.8	30.1	0.0	23.5	1.7	10.0	V		0.0	32.9	46.0	-13.1
64.030	38.2	29.5	0.0	7.6	0.5	10.0	V		0.0	26.8	40.0	-13.2
954.993	27.2	29.9	0.0	23.7	1.8	10.0	H		0.0	32.8	46.0	-13.2
938.592	27.4	30.0	0.0	23.6	1.7	10.0	H		0.0	32.8	46.0	-13.2
944.332	27.3	30.0	0.0	23.7	1.7	10.0	H		0.0	32.7	46.0	-13.3
922.190	27.6	30.1	0.0	23.5	1.7	10.0	V		0.0	32.7	46.0	-13.3
914.810	27.7	30.1	0.0	23.4	1.7	10.0	H		0.0	32.7	46.0	-13.3
899.638	27.9	30.2	0.0	23.3	1.7	10.0	H		0.0	32.7	46.0	-13.3
941.052	27.3	30.0	0.0	23.6	1.7	10.0	V		0.0	32.7	46.0	-13.3
416.617	34.3	29.1	0.0	16.3	1.1	10.0	V		0.0	32.7	46.0	-13.3
949.663	27.1	29.9	0.0	23.7	1.7	10.0	V		0.0	32.6	46.0	-13.4
577.028	30.9	29.4	0.0	19.7	1.4	10.0	V		0.0	32.6	46.0	-13.4

# RADIATED EMISSIONS DATA SHEET

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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**  
 Mid channel, omni antenna

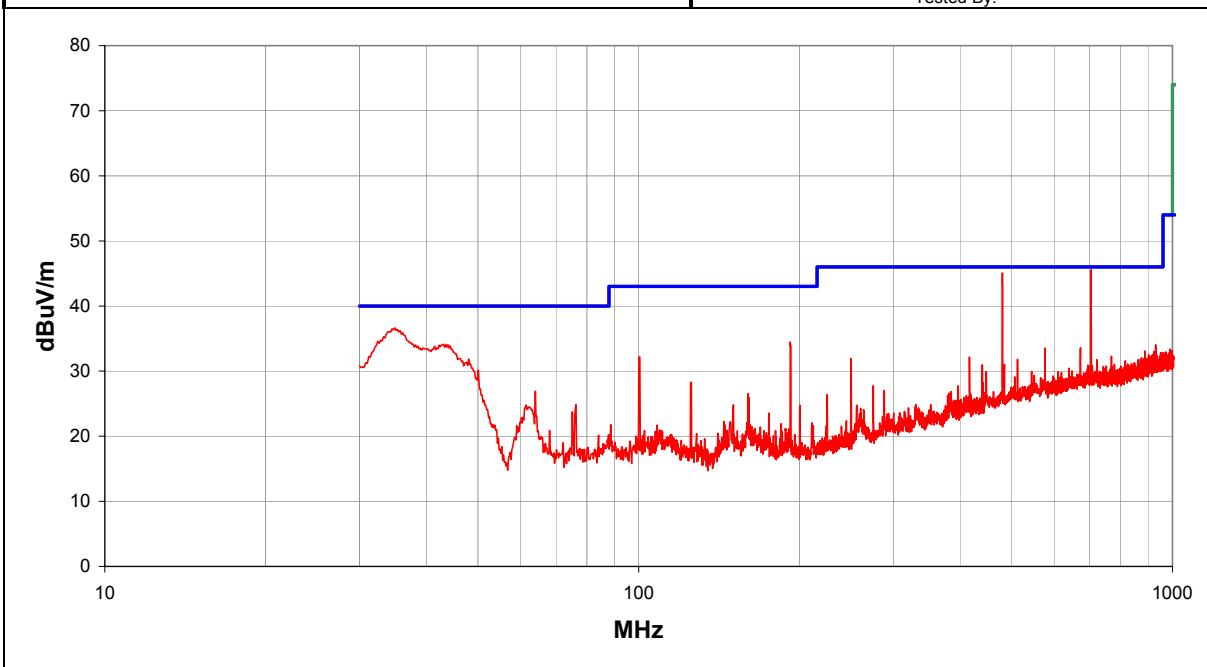
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
704.187	42.3	29.9	0.0	21.7	1.5	10.0	H		0.0	45.6	46.0	-0.4
480.162	45.3	29.1	0.0	17.6	1.2	10.0	V		0.0	45.0	46.0	-1.0
704.187	40.9	29.9	0.0	21.7	1.5	10.0	V		0.0	44.2	46.0	-1.8
480.162	43.0	29.1	0.0	17.6	1.2	10.0	H		0.0	42.7	46.0	-3.3
34.920	45.8	29.8	0.0	10.2	0.4	10.0	V		0.0	36.6	40.0	-3.4
192.361	42.7	29.2	0.0	10.2	0.8	10.0	H		0.0	34.5	43.0	-8.5
100.316	41.3	29.3	0.0	9.6	0.6	10.0	V		0.0	32.2	43.0	-10.8
930.391	28.8	30.0	0.0	23.5	1.7	10.0	H		0.0	34.0	46.0	-12.0
672.240	30.7	29.8	0.0	21.2	1.5	10.0	V		0.0	33.6	46.0	-12.4
577.028	31.9	29.4	0.0	19.7	1.4	10.0	V		0.0	33.6	46.0	-12.4
888.977	28.5	30.2	0.0	23.1	1.7	10.0	H		0.0	33.1	46.0	-12.9
923.420	27.9	30.1	0.0	23.5	1.7	10.0	V		0.0	33.0	46.0	-13.0
192.361	38.2	29.2	0.0	10.2	0.8	10.0	V		0.0	30.0	43.0	-13.0
64.030	38.3	29.5	0.0	7.6	0.5	10.0	V		0.0	26.9	40.0	-13.1
950.483	27.3	29.9	0.0	23.7	1.8	10.0	V		0.0	32.8	46.0	-13.2
954.173	27.2	29.9	0.0	23.7	1.8	10.0	V		0.0	32.8	46.0	-13.2
952.533	27.1	29.9	0.0	23.7	1.8	10.0	V		0.0	32.7	46.0	-13.3
672.240	29.7	29.8	0.0	21.2	1.5	10.0	H		0.0	32.6	46.0	-13.4
902.099	27.7	30.2	0.0	23.3	1.7	10.0	V		0.0	32.5	46.0	-13.5
918.500	27.4	30.1	0.0	23.4	1.7	10.0	H		0.0	32.5	46.0	-13.5
916.040	27.4	30.1	0.0	23.4	1.7	10.0	H		0.0	32.4	46.0	-13.6

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d#2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

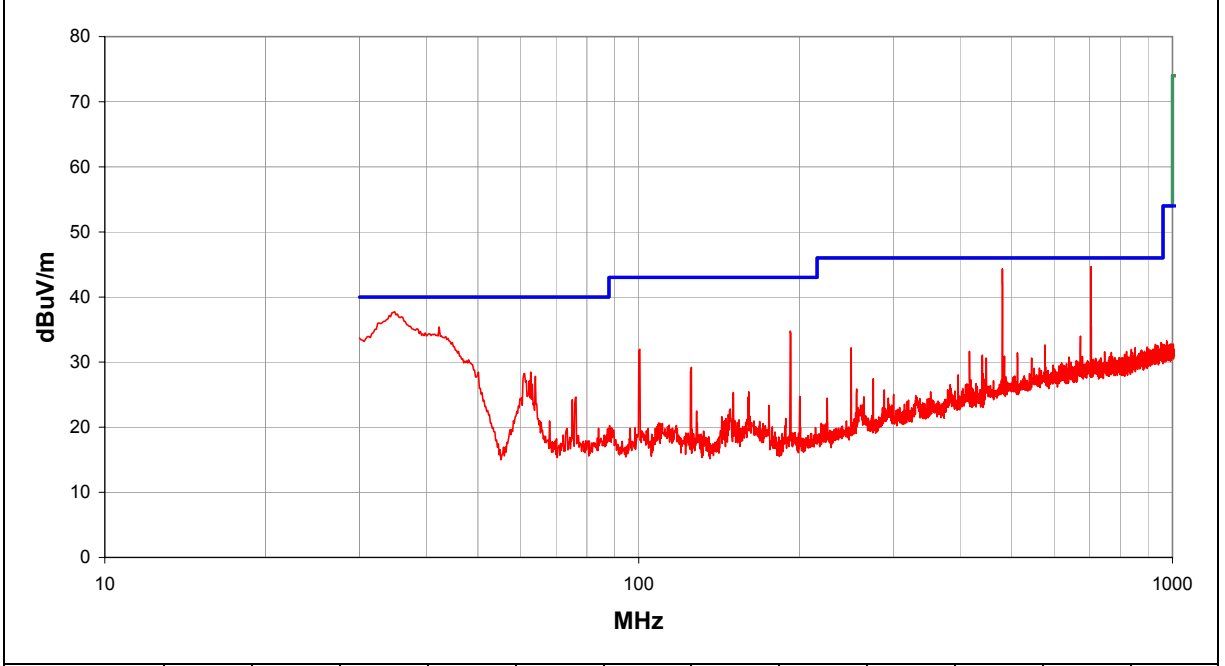
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
704.187	41.4	29.9	0.0	21.7	1.5	10.0	H		0.0	44.7	46.0	-1.3
480.162	44.6	29.1	0.0	17.6	1.2	10.0	V		0.0	44.3	46.0	-1.7
704.187	40.6	29.9	0.0	21.7	1.5	10.0	V		0.0	43.9	46.0	-2.1
34.920	46.9	29.8	0.0	10.2	0.4	10.0	V		0.0	37.7	40.0	-2.3
480.162	39.8	29.1	0.0	17.6	1.2	10.0	H		0.0	39.5	46.0	-6.5
192.361	43.0	29.2	0.0	10.2	0.8	10.0	H		0.0	34.8	43.0	-8.2
192.361	41.3	29.2	0.0	10.2	0.8	10.0	V		0.0	33.1	43.0	-9.9
100.521	41.1	29.3	0.0	9.6	0.6	10.0	V		0.0	32.0	43.0	-11.0
62.800	40.0	29.5	0.0	7.5	0.5	10.0	V		0.0	28.5	40.0	-11.5
61.160	40.0	29.5	0.0	7.3	0.5	10.0	V		0.0	28.2	40.0	-11.8
672.240	31.1	29.8	0.0	21.2	1.5	10.0	H		0.0	34.0	46.0	-12.0
64.030	39.2	29.5	0.0	7.6	0.5	10.0	V		0.0	27.8	40.0	-12.2
672.240	30.7	29.8	0.0	21.2	1.5	10.0	V		0.0	33.6	46.0	-12.4
62.390	38.7	29.5	0.0	7.4	0.5	10.0	V		0.0	27.1	40.0	-12.9
952.123	27.4	29.9	0.0	23.7	1.8	10.0	V		0.0	33.0	46.0	-13.0
958.273	27.1	29.9	0.0	23.8	1.8	10.0	H		0.0	32.8	46.0	-13.2
929.161	27.5	30.0	0.0	23.5	1.7	10.0	H		0.0	32.7	46.0	-13.3
576.738	31.0	29.4	0.0	19.7	1.4	10.0	V		0.0	32.6	46.0	-13.4
63.210	38.1	29.5	0.0	7.5	0.5	10.0	V		0.0	26.6	40.0	-13.4
954.583	27.0	29.9	0.0	23.7	1.8	10.0	H		0.0	32.6	46.0	-13.4
952.533	27.0	29.9	0.0	23.7	1.8	10.0	H		0.0	32.6	46.0	-13.4

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
d#2.04  
07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

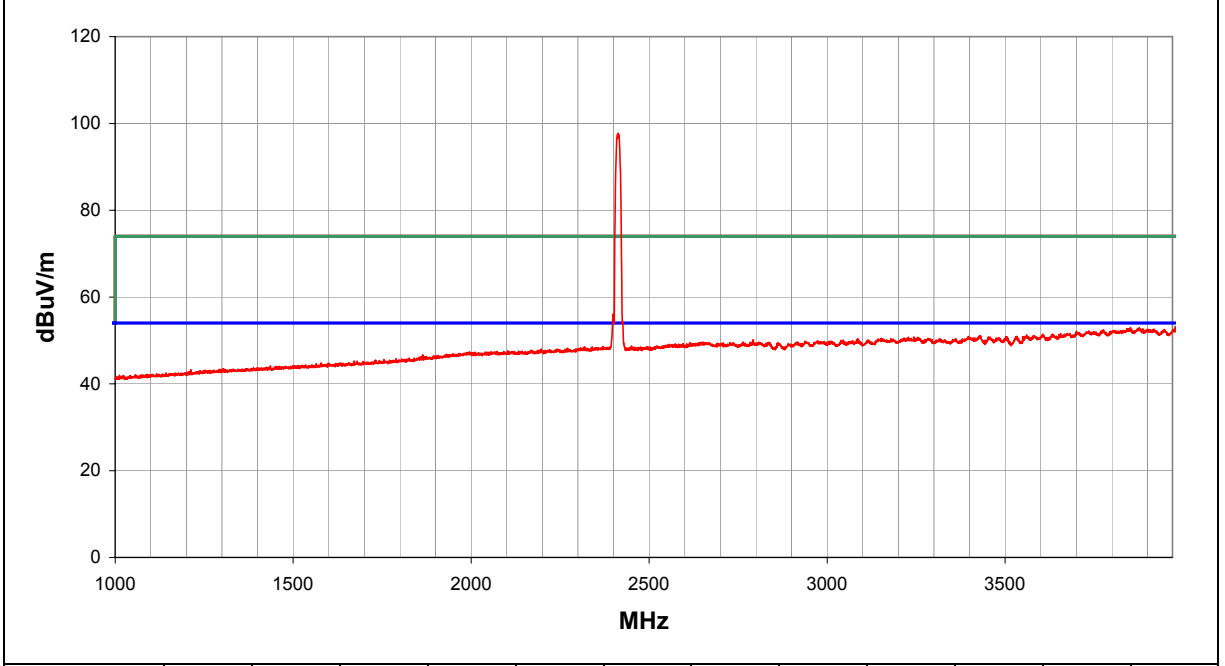
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
2413.108	77.6	32.5	0.0	30.0	2.6	20.0	V		0.0	97.7	74.0	23.7
2413.108	60.9	32.5	0.0	30.0	2.6	20.0	H		0.0	81.0	74.0	7.0
2399.338	36.0	32.5	0.0	30.0	2.6	20.0	V		0.0	56.1	74.0	-17.9
3977.879	27.5	32.4	0.0	34.1	3.9	20.0	H		0.0	53.1	74.0	-20.9
3876.387	27.7	32.4	0.0	33.9	3.8	20.0	V		0.0	52.9	74.0	-21.1
3430.958	27.4	32.5	0.0	32.6	3.5	20.0	H		0.0	51.0	74.0	-23.0
3428.918	27.4	32.5	0.0	32.6	3.5	20.0	V		0.0	51.0	74.0	-23.0
2792.236	28.8	32.5	0.0	30.8	3.1	20.0	H		0.0	50.2	74.0	-23.8
2763.675	28.4	32.5	0.0	30.8	3.0	20.0	V		0.0	49.7	74.0	-24.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV d2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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**  
 Mid channel, omni antenna

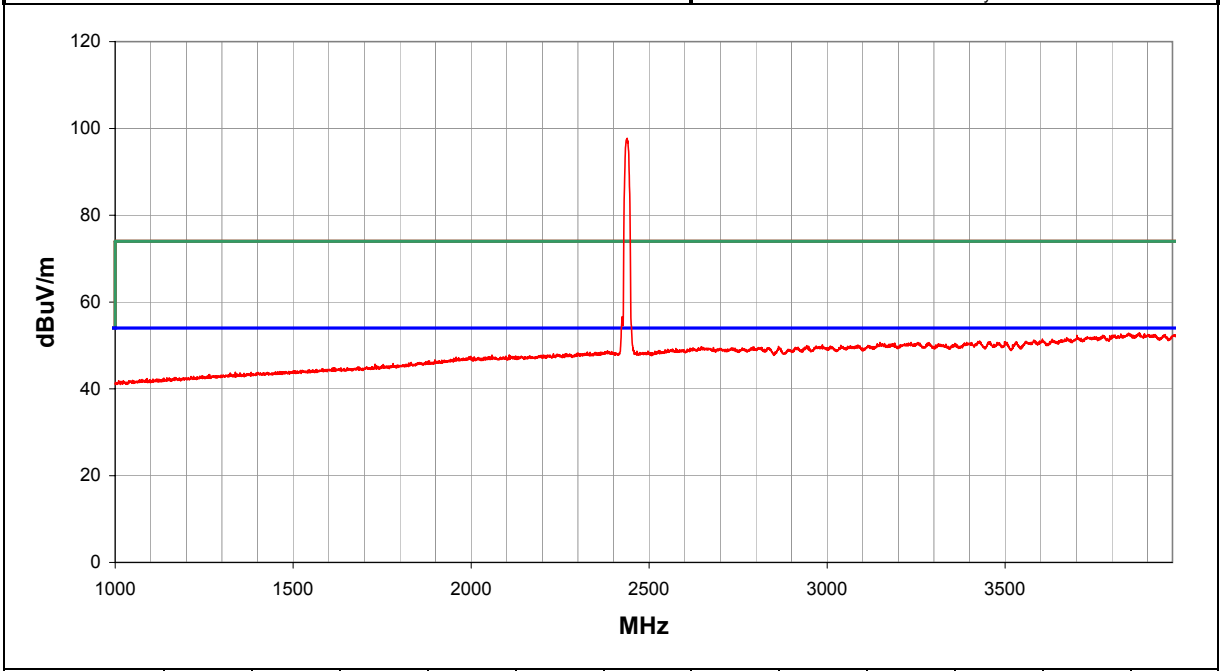
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
2438.098	77.6	32.5	0.0	30.1	2.6	20.0	V		0.0	97.7	74.0	23.7
2438.098	61.1	32.5	0.0	30.1	2.6	20.0	H		0.0	81.2	74.0	7.2
2424.328	36.5	32.5	0.0	30.0	2.6	20.0	V		0.0	56.6	74.0	-17.4
3876.897	27.7	32.4	0.0	33.9	3.8	20.0	H		0.0	52.9	74.0	-21.1
3998.280	27.2	32.4	0.0	34.2	3.9	20.0	V		0.0	52.9	74.0	-21.1
3428.408	27.4	32.5	0.0	32.6	3.5	20.0	H		0.0	51.0	74.0	-23.0
3500.510	27.0	32.4	0.0	32.8	3.5	20.0	V		0.0	50.9	74.0	-23.1
2646.373	28.9	32.6	0.0	30.5	2.8	20.0	V		0.0	49.7	74.0	-24.3
2794.276	28.3	32.5	0.0	30.8	3.1	20.0	H		0.0	49.7	74.0	-24.3

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
d2.04  
07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

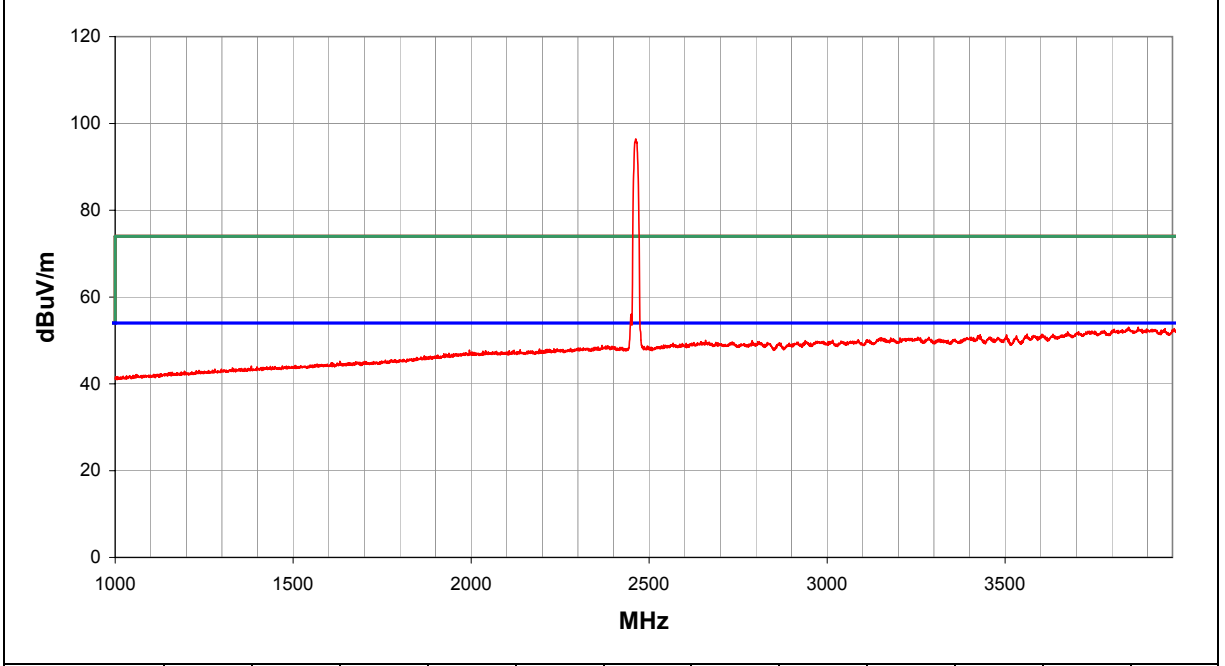
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
2463.089	76.2	32.6	0.0	30.1	2.6	20.0	V		0.0	96.4	74.0	22.4
2465.129	63.8	32.6	0.0	30.1	2.6	20.0	H		0.0	84.0	74.0	10.0
2449.319	35.9	32.5	0.0	30.1	2.6	20.0	V		0.0	56.0	74.0	-18.0
3873.837	27.8	32.4	0.0	33.8	3.8	20.0	V		0.0	53.0	74.0	-21.0
3845.277	27.7	32.4	0.0	33.8	3.8	20.0	H		0.0	52.8	74.0	-21.2
3429.938	27.7	32.5	0.0	32.6	3.5	20.0	V		0.0	51.3	74.0	-22.7
3504.080	27.4	32.4	0.0	32.8	3.5	20.0	H		0.0	51.3	74.0	-22.7
3424.328	27.5	32.5	0.0	32.6	3.5	20.0	H		0.0	51.1	74.0	-22.9
2658.613	29.2	32.6	0.0	30.5	2.9	20.0	H		0.0	50.0	74.0	-24.0
2809.066	28.3	32.5	0.0	30.9	3.1	20.0	V		0.0	49.7	74.0	-24.3

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

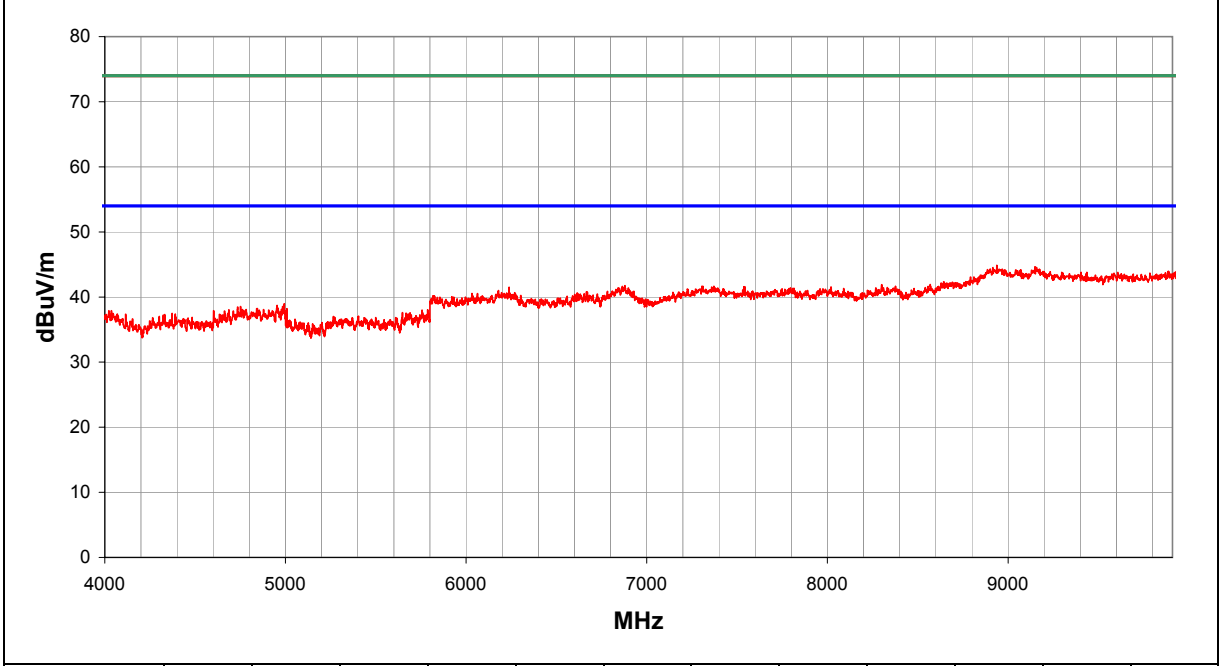
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8937.832	29.6	31.0	0.0	39.9	6.4	0.0	V		0.0	44.9	74.0	-29.1
9149.199	29.4	30.9	0.0	39.7	6.5	0.0	V		0.0	44.7	74.0	-29.3
8916.695	29.4	31.0	0.0	39.8	6.4	0.0	H		0.0	44.5	74.0	-29.5
9888.984	29.5	30.9	0.0	38.6	6.8	0.0	H		0.0	43.9	74.0	-30.1
9885.965	29.5	30.9	0.0	38.6	6.8	0.0	V		0.0	43.9	74.0	-30.1
8301.418	30.1	32.2	0.0	37.8	6.2	0.0	V		0.0	41.9	74.0	-32.1
6879.285	32.1	33.0	0.0	36.9	5.8	0.0	V		0.0	41.8	74.0	-32.2
8376.906	29.7	32.0	0.0	37.8	6.2	0.0	H		0.0	41.7	74.0	-32.3
7311.012	31.3	33.0	0.0	37.4	5.9	0.0	V		0.0	41.7	74.0	-32.3
7371.402	31.2	33.0	0.0	37.5	5.9	0.0	H		0.0	41.7	74.0	-32.3
6878.075	32.0	33.0	0.0	36.9	5.8	0.0	H		0.0	41.7	74.0	-32.3
8020.602	30.4	32.7	0.0	37.7	6.1	0.0	H		0.0	41.5	74.0	-32.5
6238.006	32.3	32.6	0.0	36.4	5.5	0.0	V		0.0	41.5	74.0	-32.5
8090.051	30.0	32.5	0.0	37.7	6.1	0.0	V		0.0	41.3	74.0	-32.7
6666.332	31.6	32.9	0.0	36.5	5.7	0.0	V		0.0	40.8	74.0	-33.2
6176.298	31.5	32.6	0.0	36.4	5.5	0.0	H		0.0	40.8	74.0	-33.2
6671.172	31.5	32.9	0.0	36.5	5.7	0.0	H		0.0	40.7	74.0	-33.3
5816.939	31.0	32.4	0.0	36.3	5.2	0.0	H		0.0	40.2	74.0	-33.8
4993.633	31.3	31.9	0.0	35.1	4.5	0.0	V		0.0	39.0	74.0	-35.0
4954.252	31.2	31.9	0.0	35.0	4.5	0.0	H		0.0	38.7	74.0	-35.3
4752.299	31.9	32.0	0.0	34.3	4.4	0.0	V		0.0	38.5	74.0	-35.5

NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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**  
 Mid channel, omni antenna

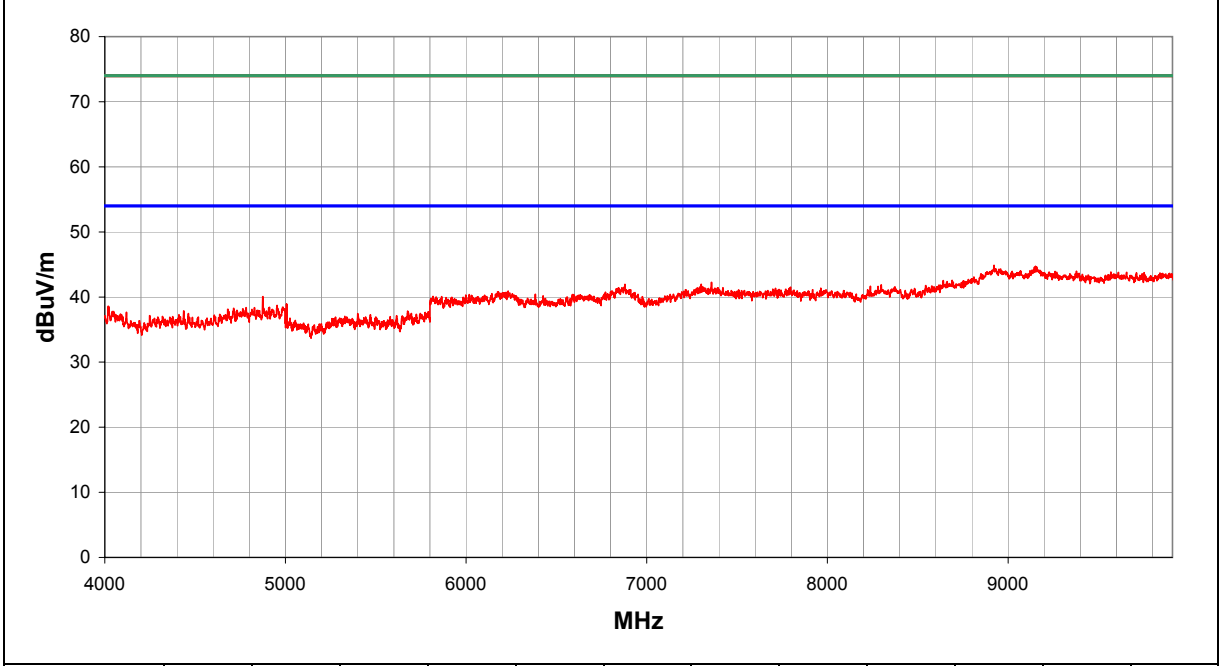
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8922.734	29.7	31.0	0.0	39.8	6.4	0.0	H		0.0	44.9	74.0	-29.1
9152.219	29.5	30.9	0.0	39.7	6.5	0.0	H		0.0	44.7	74.0	-29.3
9144.670	29.3	30.9	0.0	39.7	6.5	0.0	V		0.0	44.6	74.0	-29.4
9934.277	29.5	30.9	0.0	38.6	6.8	0.0	H		0.0	44.0	74.0	-30.0
7359.324	31.8	33.0	0.0	37.5	5.9	0.0	V		0.0	42.2	74.0	-31.8
6879.285	32.3	33.0	0.0	36.9	5.8	0.0	H		0.0	42.0	74.0	-32.0
7301.953	31.6	33.0	0.0	37.4	5.9	0.0	H		0.0	42.0	74.0	-32.0
8298.398	30.1	32.2	0.0	37.8	6.2	0.0	V		0.0	41.9	74.0	-32.1
8238.008	30.0	32.3	0.0	37.7	6.2	0.0	H		0.0	41.6	74.0	-32.4
6875.655	31.9	33.0	0.0	36.9	5.8	0.0	V		0.0	41.6	74.0	-32.4
7797.156	30.6	32.8	0.0	37.7	6.0	0.0	H		0.0	41.5	74.0	-32.5
7963.230	30.3	32.7	0.0	37.7	6.1	0.0	H		0.0	41.4	74.0	-32.6
6233.166	31.7	32.6	0.0	36.4	5.5	0.0	V		0.0	40.9	74.0	-33.1
6221.066	31.5	32.6	0.0	36.4	5.5	0.0	H		0.0	40.7	74.0	-33.3
6383.201	31.4	32.7	0.0	36.2	5.6	0.0	V		0.0	40.4	74.0	-33.6
6425.550	31.2	32.8	0.0	36.2	5.6	0.0	V		0.0	40.2	74.0	-33.8
4875.490	32.9	32.0	0.0	34.7	4.4	0.0	V		0.0	40.1	74.0	-33.9
5006.760	31.2	31.9	0.0	35.1	4.5	0.0	V		0.0	38.9	74.0	-35.1
5005.750	31.2	31.9	0.0	35.0	4.5	0.0	V		0.0	38.9	74.0	-35.1
4954.252	31.2	31.9	0.0	35.0	4.5	0.0	V		0.0	38.7	74.0	-35.3
4018.180	32.9	32.4	0.0	34.2	3.9	0.0	V		0.0	38.6	74.0	-35.4



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/29/02
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, omni antenna

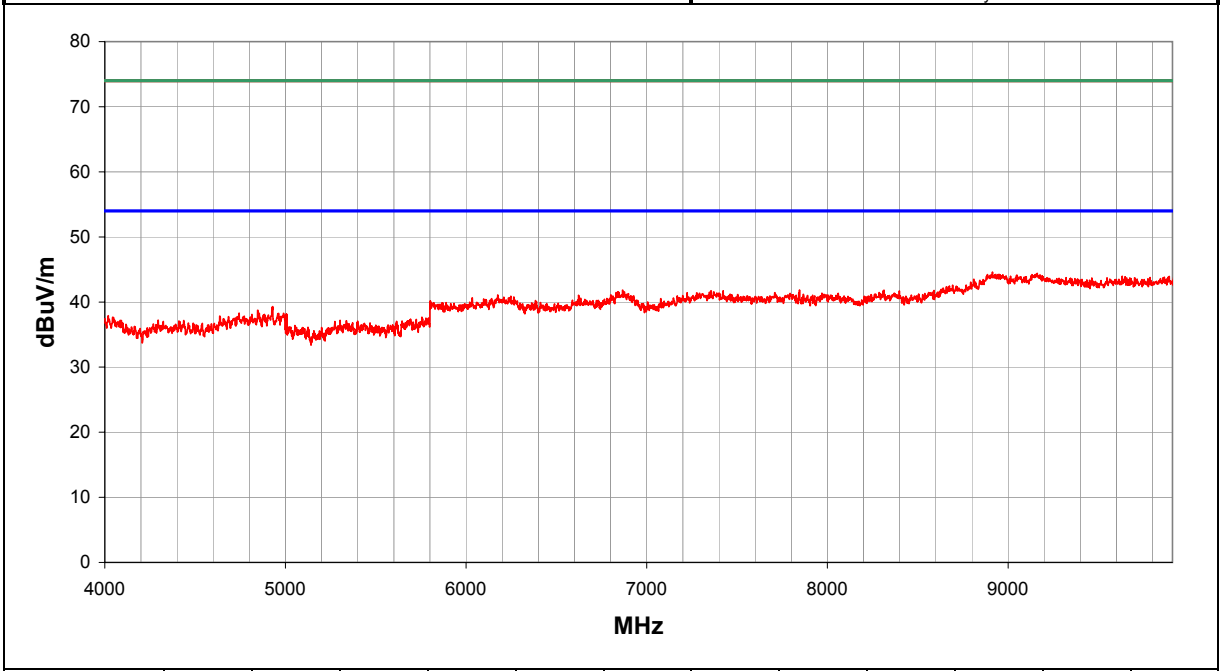
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	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)
8913.676	29.5	31.1	0.0	39.8	6.4	0.0	V		0.0	44.6	74.0	-29.4
9161.277	29.2	30.9	0.0	39.7	6.5	0.0	H		0.0	44.4	74.0	-29.6
9632.324	29.7	30.9	0.0	38.5	6.7	0.0	V		0.0	44.0	74.0	-30.0
7845.469	30.9	32.8	0.0	37.7	6.1	0.0	V		0.0	41.9	74.0	-32.1
6867.186	32.2	33.0	0.0	36.9	5.7	0.0	H		0.0	41.8	74.0	-32.2
8313.496	30.0	32.1	0.0	37.8	6.2	0.0	H		0.0	41.8	74.0	-32.2
7356.305	31.3	33.0	0.0	37.5	5.9	0.0	V		0.0	41.7	74.0	-32.3
8398.043	29.7	32.0	0.0	37.8	6.2	0.0	V		0.0	41.7	74.0	-32.3
7347.246	31.1	33.0	0.0	37.5	5.9	0.0	H		0.0	41.5	74.0	-32.5
6830.887	31.9	33.0	0.0	36.8	5.7	0.0	V		0.0	41.5	74.0	-32.5
6175.088	31.8	32.6	0.0	36.4	5.5	0.0	V		0.0	41.1	74.0	-32.9
6622.773	31.9	32.9	0.0	36.4	5.6	0.0	H		0.0	41.0	74.0	-33.0
6208.967	31.5	32.6	0.0	36.4	5.5	0.0	H		0.0	40.7	74.0	-33.3
6033.522	31.2	32.5	0.0	36.6	5.4	0.0	H		0.0	40.7	74.0	-33.3
6384.411	31.2	32.7	0.0	36.2	5.6	0.0	H		0.0	40.2	74.0	-33.8
4930.018	31.9	31.9	0.0	34.9	4.5	0.0	V		0.0	39.3	74.0	-34.7
4847.217	31.7	32.0	0.0	34.6	4.4	0.0	V		0.0	38.7	74.0	-35.3
4744.221	31.7	32.0	0.0	34.3	4.3	0.0	V		0.0	38.3	74.0	-35.7
5006.760	30.4	31.9	0.0	35.1	4.5	0.0	V		0.0	38.1	74.0	-35.9
5005.750	30.4	31.9	0.0	35.1	4.5	0.0	V		0.0	38.1	74.0	-35.9
5004.740	30.4	31.9	0.0	35.1	4.5	0.0	V		0.0	38.1	74.0	-35.9

NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 15.209	Year: Current 47CFR
Method: ANSI C63.4	Year: 2000

**SAMPLE CALCULATIONS**  
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation  
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**  
 Low channel, omni antenna

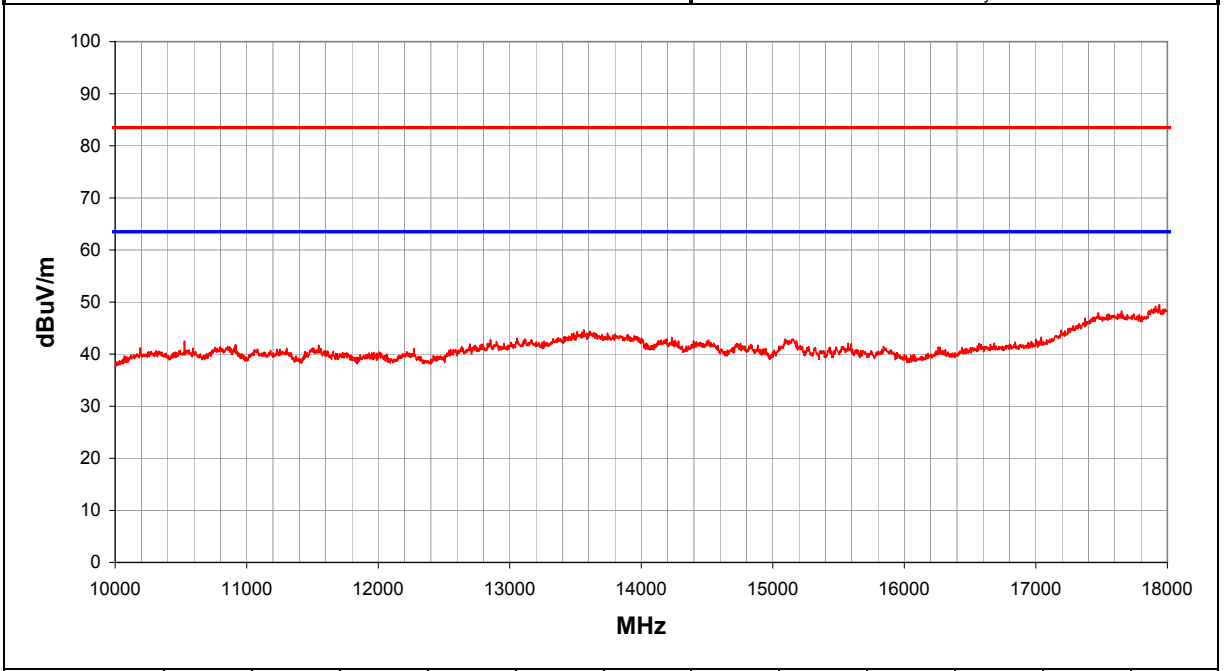
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<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)
17939.620	30.8	34.9	0.0	47.5	6.1	0.0	H		0.0	49.5	83.5	-34.0
17897.670	30.2	34.8	0.0	47.3	6.1	0.0	V		0.0	48.7	83.5	-34.8
17651.990	30.9	34.7	0.0	46.1	6.0	0.0	H		0.0	48.3	83.5	-35.2
13563.310	33.4	34.7	0.0	41.0	4.9	0.0	V		0.0	44.7	83.5	-38.8
13560.800	33.1	34.7	0.0	41.1	4.9	0.0	H		0.0	44.4	83.5	-39.1
14232.900	31.9	34.4	0.0	40.7	5.1	0.0	H		0.0	43.2	83.5	-40.3
13054.230	32.9	34.9	0.0	40.3	4.8	0.0	H		0.0	43.1	83.5	-40.4
15149.850	32.5	34.2	0.0	39.2	5.3	0.0	V		0.0	42.9	83.5	-40.6
12853.600	33.2	35.0	0.0	39.8	4.8	0.0	H		0.0	42.8	83.5	-40.7
13119.430	32.4	34.9	0.0	40.4	4.8	0.0	V		0.0	42.7	83.5	-40.8
15143.860	32.3	34.2	0.0	39.3	5.3	0.0	H		0.0	42.7	83.5	-40.8
14511.270	31.3	34.3	0.0	40.6	5.2	0.0	H		0.0	42.7	83.5	-40.8
14130.080	31.3	34.5	0.0	40.7	5.0	0.0	V		0.0	42.6	83.5	-40.9
10526.640	34.9	35.2	0.0	38.7	4.1	0.0	V		0.0	42.5	83.5	-41.0
12898.740	32.7	35.0	0.0	40.0	4.8	0.0	V		0.0	42.4	83.5	-41.1
14506.250	30.9	34.3	0.0	40.6	5.2	0.0	V		0.0	42.3	83.5	-41.2
14726.940	30.9	34.3	0.0	40.2	5.2	0.0	H		0.0	42.1	83.5	-41.4
15572.440	32.8	34.0	0.0	37.8	5.5	0.0	H		0.0	42.1	83.5	-41.4
14716.910	30.7	34.3	0.0	40.3	5.2	0.0	V		0.0	41.9	83.5	-41.6
10917.860	34.4	35.2	0.0	38.4	4.2	0.0	V		0.0	41.8	83.5	-41.7
11547.320	33.6	35.3	0.0	39.0	4.4	0.0	H		0.0	41.7	83.5	-41.8

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.04  
07/23/2002

<b>EUT:</b> MPC13A-20	<b>Work Order:</b> INMC0023
<b>Serial Number:</b> none	<b>Date:</b> 07/30/02
<b>Customer:</b> Intermec Corporation	<b>Temperature:</b> 77
<b>Attendees:</b> None	<b>Humidity:</b> 45%
<b>Cust. Ref. No.:</b>	<b>Barometric Pressure:</b> 30.15
<b>Tested by:</b> Rod Peloquin	<b>Power:</b> DC from E-net
	<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**

Mid channel, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

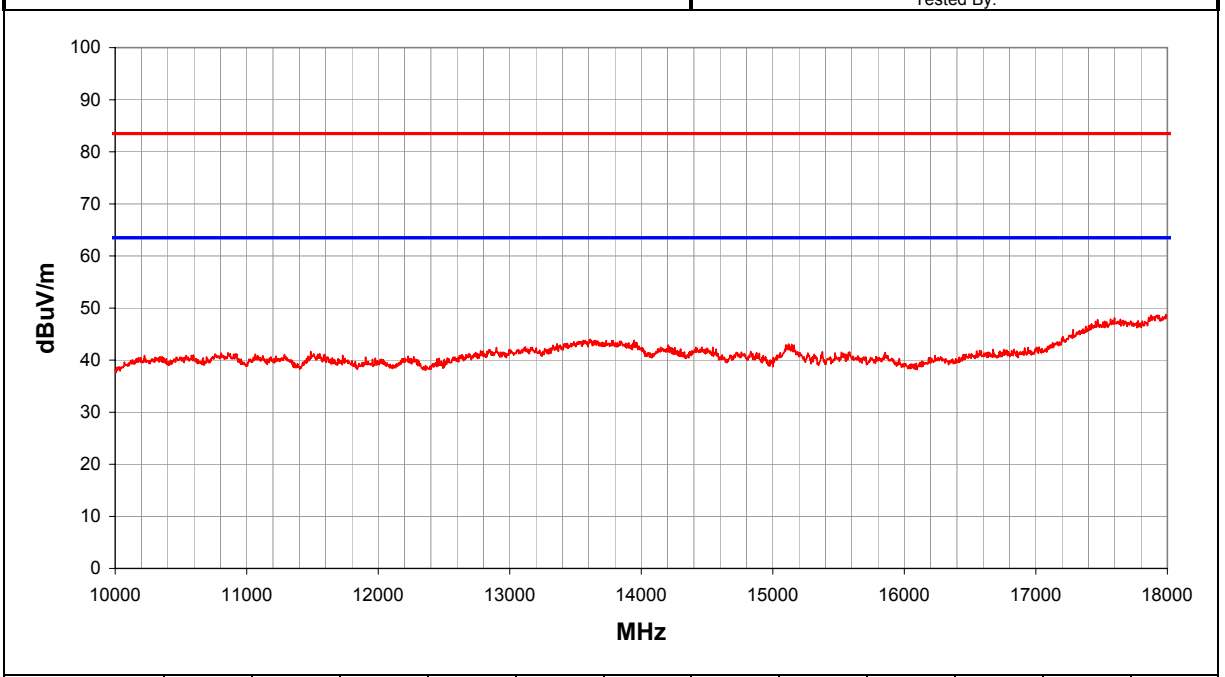
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	<b>Test Distance (m)</b>	<b>Run #</b>
Evaluation	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)
17990.550	29.8	34.9	0.0	47.8	6.1	0.0	V		0.0	48.8	83.5	-34.7
17936.620	29.9	34.9	0.0	47.5	6.1	0.0	H		0.0	48.6	83.5	-34.9
17598.060	31.0	34.7	0.0	45.8	6.0	0.0	V		0.0	48.1	83.5	-35.4
17643.010	30.5	34.7	0.0	46.0	6.0	0.0	H		0.0	47.8	83.5	-35.7
13605.950	32.7	34.7	0.0	41.0	4.9	0.0	H		0.0	44.0	83.5	-39.5
13615.980	32.6	34.7	0.0	41.0	4.9	0.0	V		0.0	43.9	83.5	-39.6
15119.880	32.6	34.2	0.0	39.3	5.3	0.0	V		0.0	43.1	83.5	-40.4
15143.860	32.6	34.2	0.0	39.3	5.3	0.0	H		0.0	43.0	83.5	-40.5
14205.310	31.6	34.4	0.0	40.7	5.1	0.0	V		0.0	42.9	83.5	-40.6
14461.110	31.1	34.4	0.0	40.6	5.1	0.0	V		0.0	42.5	83.5	-41.0
14147.630	31.2	34.5	0.0	40.7	5.0	0.0	H		0.0	42.5	83.5	-41.0
14543.870	31.1	34.3	0.0	40.5	5.2	0.0	H		0.0	42.5	83.5	-41.0
12898.740	32.7	35.0	0.0	40.0	4.8	0.0	H		0.0	42.4	83.5	-41.1
16675.270	30.9	34.2	0.0	39.6	5.8	0.0	V		0.0	42.1	83.5	-41.4
14832.270	30.6	34.3	0.0	40.1	5.2	0.0	H		0.0	41.7	83.5	-41.8
11487.130	33.6	35.3	0.0	39.0	4.4	0.0	H		0.0	41.7	83.5	-41.8
15377.630	31.9	34.1	0.0	38.4	5.4	0.0	H		0.0	41.6	83.5	-41.9
15584.430	32.3	34.0	0.0	37.8	5.5	0.0	H		0.0	41.6	83.5	-41.9
14724.430	30.3	34.3	0.0	40.2	5.2	0.0	V		0.0	41.5	83.5	-42.0
15854.170	32.3	33.9	0.0	37.5	5.6	0.0	H		0.0	41.5	83.5	-42.0
10857.670	34.0	35.2	0.0	38.5	4.2	0.0	H		0.0	41.4	83.5	-42.1

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV dfl.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 15.209	Year: Current 47CFR
Method: ANSI C63.4	Year: 2000

**SAMPLE CALCULATIONS**  
 Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation  
 Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**COMMENTS**  
 High channel, omni antenna

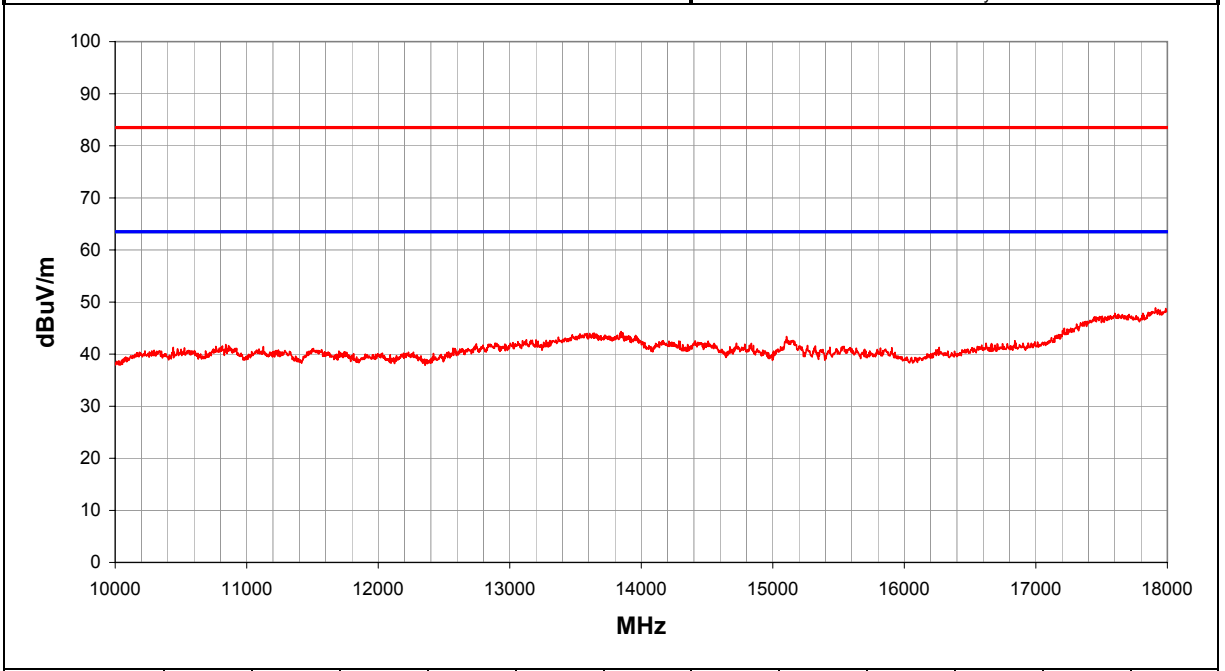
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<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)
17909.660	30.3	34.9	0.0	47.3	6.1	0.0	H		0.0	48.9	83.5	-34.6
17978.570	29.3	34.9	0.0	47.7	6.1	0.0	V		0.0	48.2	83.5	-35.3
13846.700	33.1	34.6	0.0	40.8	5.0	0.0	H		0.0	44.3	83.5	-39.2
13641.050	32.8	34.7	0.0	41.0	4.9	0.0	V		0.0	44.1	83.5	-39.4
15104.900	32.8	34.2	0.0	39.4	5.3	0.0	H		0.0	43.4	83.5	-40.1
13126.950	32.4	34.9	0.0	40.4	4.8	0.0	V		0.0	42.8	83.5	-40.7
15098.900	32.1	34.2	0.0	39.4	5.3	0.0	V		0.0	42.7	83.5	-40.8
14165.190	31.3	34.5	0.0	40.7	5.0	0.0	H		0.0	42.6	83.5	-40.9
14160.170	31.3	34.5	0.0	40.7	5.0	0.0	V		0.0	42.6	83.5	-40.9
14408.450	31.2	34.4	0.0	40.6	5.1	0.0	V		0.0	42.6	83.5	-40.9
14724.430	30.9	34.3	0.0	40.2	5.2	0.0	H		0.0	42.1	83.5	-41.4
10840.120	34.4	35.2	0.0	38.5	4.2	0.0	V		0.0	41.8	83.5	-41.7
14721.920	30.5	34.3	0.0	40.2	5.2	0.0	V		0.0	41.7	83.5	-41.8
15263.740	31.6	34.1	0.0	38.8	5.4	0.0	V		0.0	41.7	83.5	-41.8
10862.690	34.2	35.2	0.0	38.5	4.2	0.0	H		0.0	41.6	83.5	-41.9
15323.680	31.7	34.1	0.0	38.6	5.4	0.0	V		0.0	41.6	83.5	-41.9
15533.480	32.2	34.0	0.0	37.9	5.5	0.0	V		0.0	41.5	83.5	-42.0
15542.470	32.2	34.0	0.0	37.9	5.5	0.0	H		0.0	41.5	83.5	-42.0
11126.010	33.9	35.3	0.0	38.6	4.3	0.0	V		0.0	41.4	83.5	-42.1
10441.380	33.7	35.2	0.0	38.7	4.1	0.0	V		0.0	41.3	83.5	-42.2
16264.760	31.4	34.0	0.0	38.2	5.7	0.0	V		0.0	41.3	83.5	-42.2

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 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

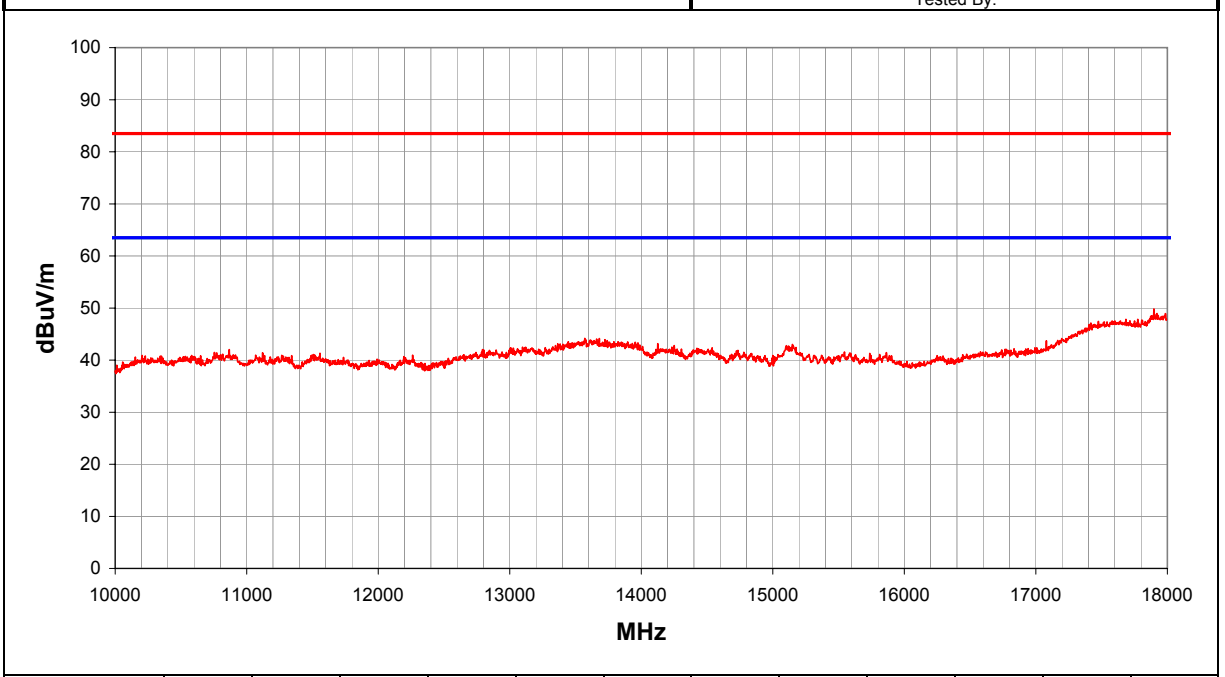
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
17897.670	31.3	34.8	0.0	47.3	6.1	0.0	H		0.0	49.8	83.5	-33.7
17921.640	30.3	34.9	0.0	47.4	6.1	0.0	V		0.0	48.9	83.5	-34.6
13570.840	32.9	34.7	0.0	41.0	4.9	0.0	V		0.0	44.2	83.5	-39.3
13681.180	32.9	34.6	0.0	41.0	4.9	0.0	H		0.0	44.1	83.5	-39.4
17079.740	30.8	34.4	0.0	41.4	5.9	0.0	H		0.0	43.7	83.5	-39.8
14125.060	31.9	34.5	0.0	40.7	5.0	0.0	H		0.0	43.2	83.5	-40.3
15149.850	32.6	34.2	0.0	39.2	5.3	0.0	V		0.0	43.0	83.5	-40.5
15149.850	32.4	34.2	0.0	39.2	5.3	0.0	H		0.0	42.8	83.5	-40.7
14247.950	31.1	34.4	0.0	40.7	5.1	0.0	V		0.0	42.4	83.5	-41.1
14538.850	31.0	34.3	0.0	40.5	5.2	0.0	H		0.0	42.4	83.5	-41.1
10867.700	34.6	35.2	0.0	38.5	4.2	0.0	H		0.0	42.0	83.5	-41.5
14734.460	30.7	34.3	0.0	40.2	5.2	0.0	V		0.0	41.9	83.5	-41.6
15545.470	32.3	34.0	0.0	37.9	5.5	0.0	H		0.0	41.6	83.5	-41.9
14779.600	30.4	34.3	0.0	40.2	5.2	0.0	H		0.0	41.5	83.5	-42.0
10754.850	34.0	35.2	0.0	38.5	4.2	0.0	V		0.0	41.5	83.5	-42.0
15863.160	32.3	33.9	0.0	37.5	5.6	0.0	V		0.0	41.5	83.5	-42.0
11120.990	33.9	35.3	0.0	38.5	4.2	0.0	V		0.0	41.4	83.5	-42.1
15587.430	32.1	34.0	0.0	37.8	5.5	0.0	V		0.0	41.4	83.5	-42.1
11557.350	33.2	35.3	0.0	39.0	4.4	0.0	H		0.0	41.3	83.5	-42.2
15737.280	32.1	34.0	0.0	37.7	5.5	0.0	H		0.0	41.3	83.5	-42.2
12262.050	32.4	35.3	0.0	39.2	4.7	0.0	H		0.0	41.0	83.5	-42.5

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 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

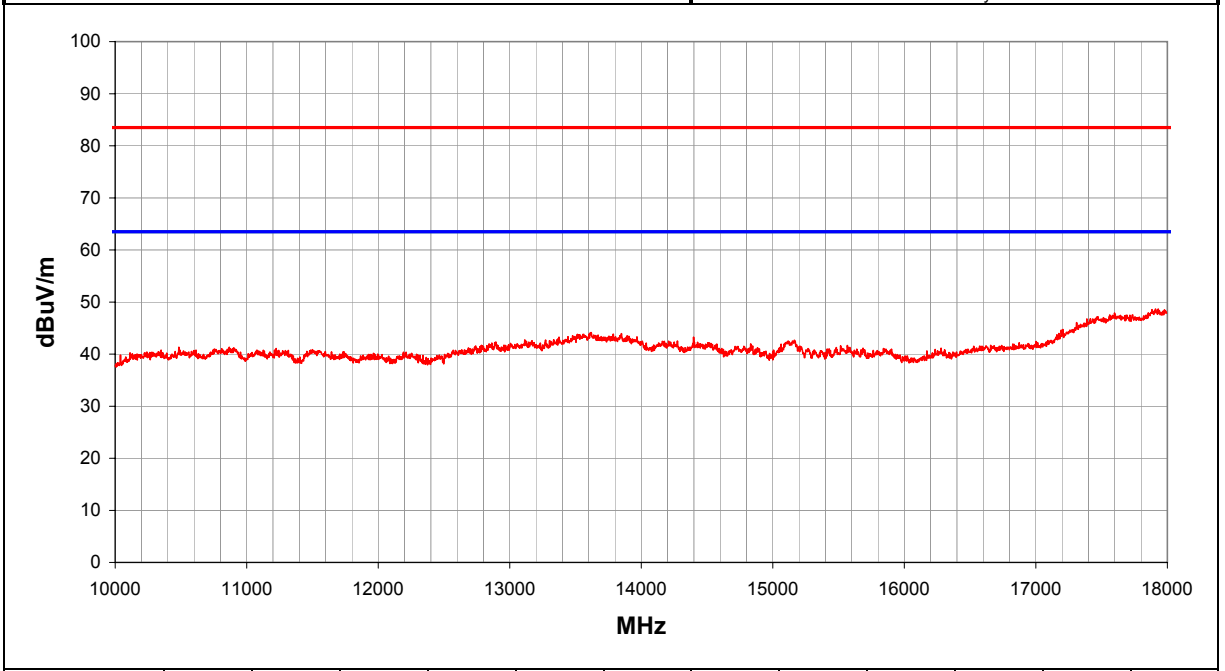
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
17909.660	30.1	34.9	0.0	47.3	6.1	0.0	H		0.0	48.7	83.5	-34.8
17930.630	30.0	34.9	0.0	47.5	6.1	0.0	V		0.0	48.7	83.5	-34.8
13618.480	32.9	34.7	0.0	41.0	4.9	0.0	H		0.0	44.2	83.5	-39.3
13610.960	32.8	34.7	0.0	41.0	4.9	0.0	V		0.0	44.1	83.5	-39.4
14398.410	31.9	34.4	0.0	40.6	5.1	0.0	V		0.0	43.3	83.5	-40.2
13114.410	32.4	34.9	0.0	40.4	4.8	0.0	V		0.0	42.7	83.5	-40.8
15164.840	32.3	34.2	0.0	39.2	5.3	0.0	H		0.0	42.7	83.5	-40.8
13169.590	32.1	34.9	0.0	40.5	4.8	0.0	H		0.0	42.6	83.5	-40.9
15149.850	32.1	34.2	0.0	39.2	5.3	0.0	V		0.0	42.5	83.5	-41.0
14275.530	31.2	34.4	0.0	40.6	5.1	0.0	H		0.0	42.5	83.5	-41.0
14160.170	31.2	34.5	0.0	40.7	5.0	0.0	V		0.0	42.5	83.5	-41.0
14428.510	30.9	34.4	0.0	40.6	5.1	0.0	H		0.0	42.3	83.5	-41.2
14832.270	30.9	34.3	0.0	40.1	5.2	0.0	H		0.0	42.0	83.5	-41.5
15566.450	32.4	34.0	0.0	37.8	5.5	0.0	V		0.0	41.7	83.5	-41.8
14847.310	30.5	34.2	0.0	40.0	5.3	0.0	V		0.0	41.6	83.5	-41.9
10867.700	33.9	35.2	0.0	38.5	4.2	0.0	H		0.0	41.3	83.5	-42.2
10484.010	33.7	35.2	0.0	38.7	4.1	0.0	V		0.0	41.3	83.5	-42.2
15575.440	32.0	34.0	0.0	37.8	5.5	0.0	H		0.0	41.3	83.5	-42.2
16279.750	31.2	34.0	0.0	38.3	5.7	0.0	V		0.0	41.1	83.5	-42.4
10905.320	33.7	35.2	0.0	38.5	4.2	0.0	V		0.0	41.1	83.5	-42.4
11223.810	33.4	35.3	0.0	38.7	4.3	0.0	V		0.0	41.1	83.5	-42.4

NORTHWEST **EMC RADIATED EMISSIONS DATA SHEET** REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 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

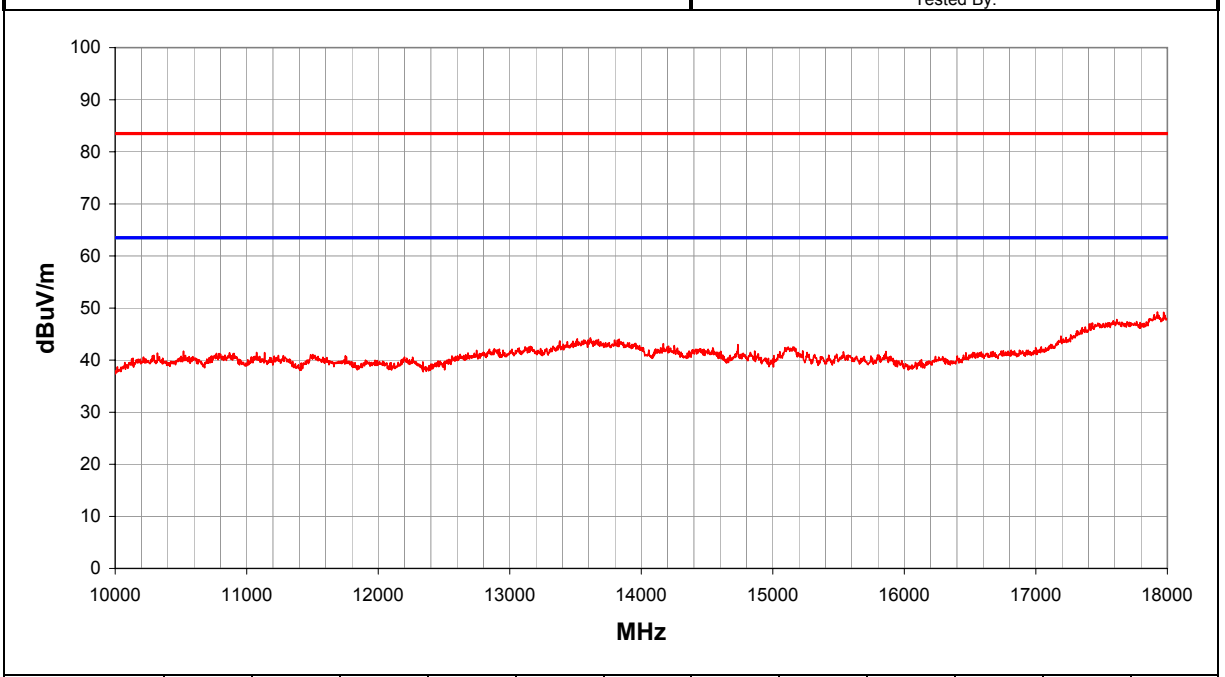
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	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)
17924.640	30.6	34.9	0.0	47.4	6.1	0.0	V		0.0	49.2	83.5	-34.3
17972.580	30.3	34.9	0.0	47.7	6.1	0.0	H		0.0	49.2	83.5	-34.3
13613.470	33.0	34.7	0.0	41.0	4.9	0.0	V		0.0	44.3	83.5	-39.2
13513.160	32.8	34.7	0.0	41.1	4.9	0.0	H		0.0	44.1	83.5	-39.4
14167.700	31.9	34.4	0.0	40.7	5.1	0.0	H		0.0	43.2	83.5	-40.3
14734.460	31.8	34.3	0.0	40.2	5.2	0.0	H		0.0	43.0	83.5	-40.5
14250.450	31.5	34.4	0.0	40.6	5.1	0.0	V		0.0	42.8	83.5	-40.7
13157.050	32.2	34.9	0.0	40.5	4.8	0.0	V		0.0	42.6	83.5	-40.9
15116.890	32.0	34.2	0.0	39.4	5.3	0.0	H		0.0	42.5	83.5	-41.0
15152.850	32.1	34.2	0.0	39.2	5.3	0.0	V		0.0	42.5	83.5	-41.0
14543.870	31.0	34.3	0.0	40.5	5.2	0.0	H		0.0	42.4	83.5	-41.1
14546.380	30.9	34.3	0.0	40.5	5.2	0.0	V		0.0	42.3	83.5	-41.2
12883.700	32.5	35.0	0.0	39.9	4.8	0.0	H		0.0	42.2	83.5	-41.3
14862.360	30.7	34.2	0.0	40.0	5.3	0.0	H		0.0	41.7	83.5	-41.8
10519.120	34.1	35.2	0.0	38.7	4.1	0.0	H		0.0	41.7	83.5	-41.8
15860.160	32.5	33.9	0.0	37.5	5.6	0.0	V		0.0	41.7	83.5	-41.8
15536.480	32.3	34.0	0.0	37.9	5.5	0.0	V		0.0	41.6	83.5	-41.9
14736.970	30.4	34.3	0.0	40.2	5.2	0.0	V		0.0	41.6	83.5	-41.9
11075.850	34.0	35.3	0.0	38.5	4.2	0.0	V		0.0	41.5	83.5	-42.0
11136.040	33.9	35.3	0.0	38.6	4.3	0.0	V		0.0	41.4	83.5	-42.1
10870.210	34.0	35.2	0.0	38.5	4.2	0.0	V		0.0	41.4	83.5	-42.1

**RADIATED EMISSIONS DATA SHEET**

NORTHWEST  
**EMC**

REV  
df2.04  
07/23/2002

EUT: <b>MPC13A-20</b>		Work Order: <b>INMC0023</b>
Serial Number: <b>none</b>		Date: <b>07/30/02</b>
Customer: <b>Intermec Corporation</b>		Temperature: <b>77</b>
Attendees: <b>None</b>		Humidity: <b>45%</b>
Cust. Ref. No.:		Barometric Pressure: <b>30.15</b>
Tested by: <b>Rod Peloquin</b>	Power: <b>DC from E-net</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**

Low channel, dipole antenna

**EUT OPERATING MODES**

Transmitting radio b

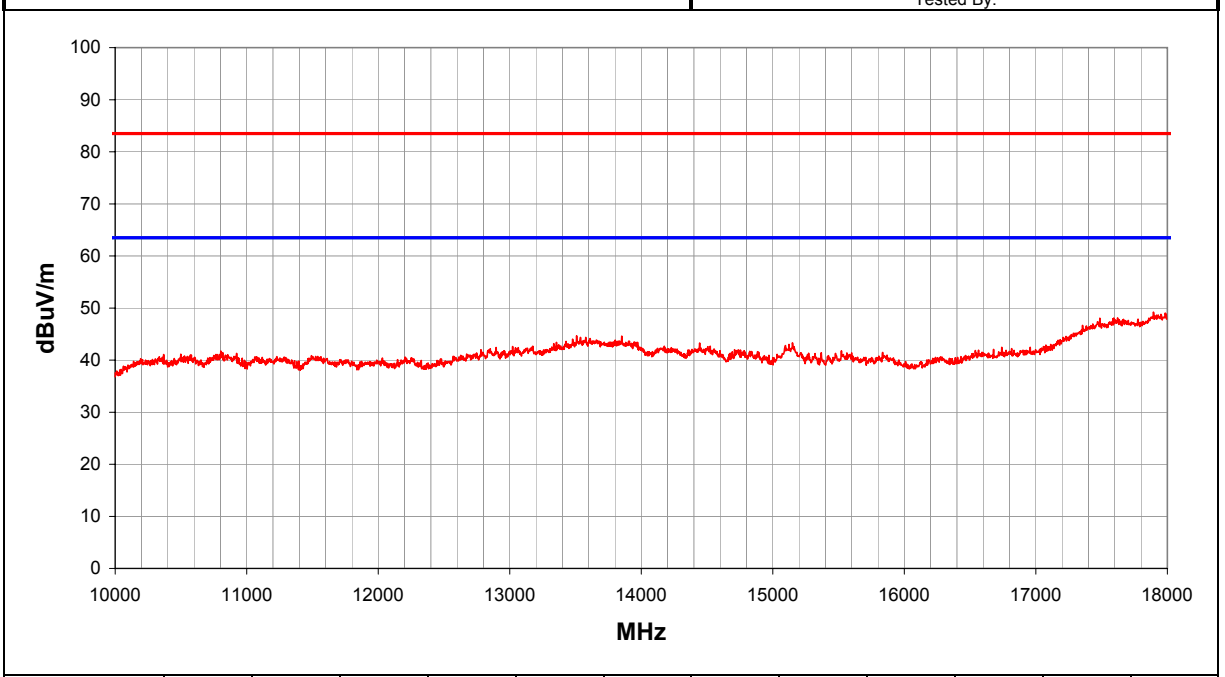
**DEVIATIONS FROM TEST STANDARD**

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)
17894.680	30.7	34.8	0.0	47.3	6.1	0.0	H		0.0	49.2	83.5	-34.3
17984.560	30.1	34.9	0.0	47.7	6.1	0.0	V		0.0	49.0	83.5	-34.5
17622.030	30.9	34.7	0.0	45.9	6.0	0.0	V		0.0	48.1	83.5	-35.4
13508.140	33.4	34.7	0.0	41.1	4.9	0.0	H		0.0	44.7	83.5	-38.8
13851.710	33.4	34.6	0.0	40.8	5.0	0.0	V		0.0	44.6	83.5	-38.9
13578.360	33.1	34.7	0.0	41.0	4.9	0.0	V		0.0	44.4	83.5	-39.1
15149.850	32.9	34.2	0.0	39.2	5.3	0.0	H		0.0	43.3	83.5	-40.2
14443.550	31.9	34.4	0.0	40.6	5.1	0.0	H		0.0	43.3	83.5	-40.2
15122.880	32.5	34.2	0.0	39.3	5.3	0.0	V		0.0	43.0	83.5	-40.5
13174.600	32.2	34.9	0.0	40.5	4.8	0.0	H		0.0	42.7	83.5	-40.8
14523.800	31.3	34.3	0.0	40.6	5.2	0.0	V		0.0	42.7	83.5	-40.8
14175.220	31.4	34.4	0.0	40.7	5.1	0.0	H		0.0	42.7	83.5	-40.8
16741.180	31.1	34.3	0.0	39.8	5.8	0.0	V		0.0	42.5	83.5	-41.0
12896.230	32.7	35.0	0.0	40.0	4.8	0.0	H		0.0	42.4	83.5	-41.1
13064.260	32.2	34.9	0.0	40.3	4.8	0.0	V		0.0	42.4	83.5	-41.1
14230.390	31.0	34.4	0.0	40.7	5.1	0.0	V		0.0	42.3	83.5	-41.2
12851.090	32.6	35.0	0.0	39.8	4.8	0.0	V		0.0	42.2	83.5	-41.3
14709.380	30.8	34.3	0.0	40.3	5.2	0.0	H		0.0	42.0	83.5	-41.5
12780.880	32.6	35.0	0.0	39.7	4.8	0.0	V		0.0	42.0	83.5	-41.5
14754.520	30.8	34.3	0.0	40.2	5.2	0.0	V		0.0	41.9	83.5	-41.6
15521.490	32.5	34.0	0.0	37.9	5.5	0.0	V		0.0	41.8	83.5	-41.7



NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 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, dipole antenna

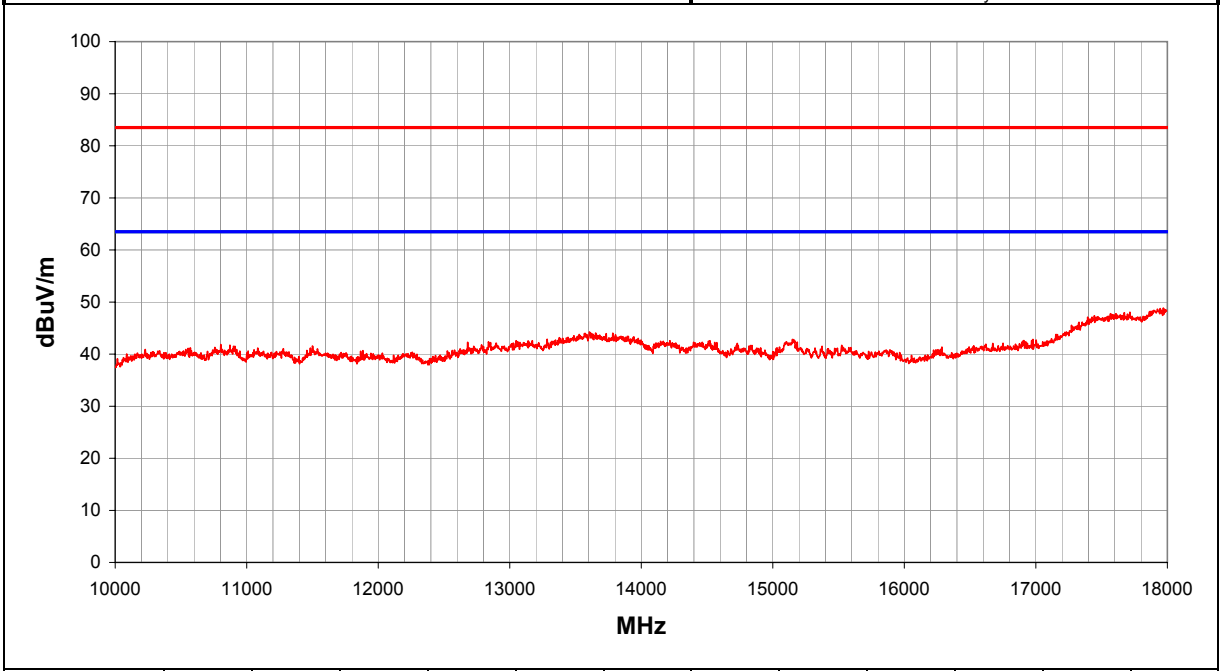
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	50

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17969.580	30.0	34.9	0.0	47.6	6.1	0.0	H		0.0	48.9	83.5	-34.6
17924.640	30.0	34.9	0.0	47.4	6.1	0.0	V		0.0	48.6	83.5	-34.9
13605.950	33.0	34.7	0.0	41.0	4.9	0.0	V		0.0	44.3	83.5	-39.2
13613.470	32.8	34.7	0.0	41.0	4.9	0.0	H		0.0	44.1	83.5	-39.4
16977.870	30.7	34.4	0.0	40.6	5.9	0.0	V		0.0	42.8	83.5	-40.7
15149.850	32.4	34.2	0.0	39.2	5.3	0.0	H		0.0	42.8	83.5	-40.7
14217.850	31.3	34.4	0.0	40.7	5.1	0.0	V		0.0	42.6	83.5	-40.9
14521.300	31.2	34.3	0.0	40.6	5.2	0.0	H		0.0	42.6	83.5	-40.9
13172.090	32.1	34.9	0.0	40.5	4.8	0.0	V		0.0	42.6	83.5	-40.9
15167.840	32.2	34.1	0.0	39.2	5.4	0.0	V		0.0	42.6	83.5	-40.9
14167.700	31.2	34.4	0.0	40.7	5.1	0.0	H		0.0	42.5	83.5	-41.0
12838.550	32.8	35.0	0.0	39.8	4.8	0.0	H		0.0	42.4	83.5	-41.1
12680.560	33.2	35.1	0.0	39.4	4.7	0.0	H		0.0	42.3	83.5	-41.2
14558.910	30.9	34.3	0.0	40.5	5.2	0.0	V		0.0	42.2	83.5	-41.3
12853.600	32.6	35.0	0.0	39.8	4.8	0.0	V		0.0	42.2	83.5	-41.3
14729.450	30.9	34.3	0.0	40.2	5.2	0.0	V		0.0	42.1	83.5	-41.4
10802.500	34.4	35.2	0.0	38.5	4.2	0.0	V		0.0	41.9	83.5	-41.6
10872.720	34.3	35.2	0.0	38.5	4.2	0.0	V		0.0	41.7	83.5	-41.8
15524.490	32.4	34.0	0.0	37.9	5.5	0.0	V		0.0	41.7	83.5	-41.8
14832.270	30.6	34.3	0.0	40.1	5.2	0.0	V		0.0	41.7	83.5	-41.8
14736.970	30.5	34.3	0.0	40.2	5.2	0.0	H		0.0	41.7	83.5	-41.8

NORTHWEST  
**EMC RADIATED EMISSIONS DATA SHEET**  
 REV df2.04 07/23/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 07/30/02
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 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, dipole antenna

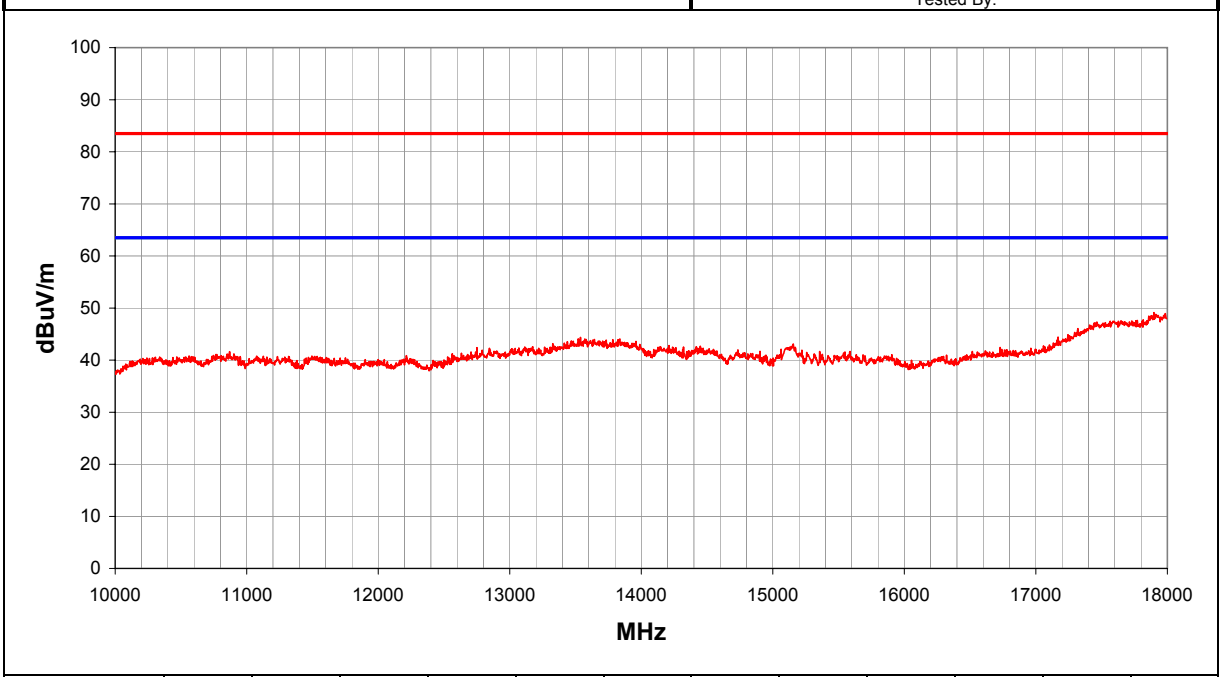
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
17897.670	30.6	34.8	0.0	47.3	6.1	0.0	V		0.0	49.1	83.5	-34.4
17930.630	29.9	34.9	0.0	47.5	6.1	0.0	H		0.0	48.6	83.5	-34.9
13538.230	33.1	34.7	0.0	41.1	4.9	0.0	H		0.0	44.4	83.5	-39.1
13580.870	32.7	34.7	0.0	41.0	4.9	0.0	V		0.0	44.0	83.5	-39.5
15155.850	32.7	34.2	0.0	39.2	5.3	0.0	V		0.0	43.1	83.5	-40.4
15155.850	32.4	34.2	0.0	39.2	5.3	0.0	H		0.0	42.8	83.5	-40.7
14210.330	31.5	34.4	0.0	40.7	5.1	0.0	V		0.0	42.8	83.5	-40.7
14448.570	31.3	34.4	0.0	40.6	5.1	0.0	H		0.0	42.7	83.5	-40.8
14142.620	31.3	34.5	0.0	40.7	5.0	0.0	H		0.0	42.6	83.5	-40.9
14320.670	31.2	34.4	0.0	40.6	5.1	0.0	H		0.0	42.5	83.5	-41.0
16729.200	31.1	34.3	0.0	39.8	5.8	0.0	V		0.0	42.4	83.5	-41.1
12750.780	33.1	35.1	0.0	39.6	4.8	0.0	V		0.0	42.4	83.5	-41.1
14418.480	31.0	34.4	0.0	40.6	5.1	0.0	V		0.0	42.4	83.5	-41.1
12846.080	32.7	35.0	0.0	39.8	4.8	0.0	H		0.0	42.3	83.5	-41.2
15062.940	31.4	34.2	0.0	39.6	5.3	0.0	V		0.0	42.1	83.5	-41.4
14734.460	30.8	34.3	0.0	40.2	5.2	0.0	H		0.0	42.0	83.5	-41.5
14902.480	30.7	34.2	0.0	40.0	5.3	0.0	H		0.0	41.7	83.5	-41.8
15587.430	32.4	34.0	0.0	37.8	5.5	0.0	H		0.0	41.7	83.5	-41.8
15356.650	31.9	34.1	0.0	38.4	5.4	0.0	V		0.0	41.7	83.5	-41.8
10870.210	34.2	35.2	0.0	38.5	4.2	0.0	V		0.0	41.6	83.5	-41.9
15257.750	31.4	34.1	0.0	38.8	5.4	0.0	H		0.0	41.5	83.5	-42.0

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, dipole antenna

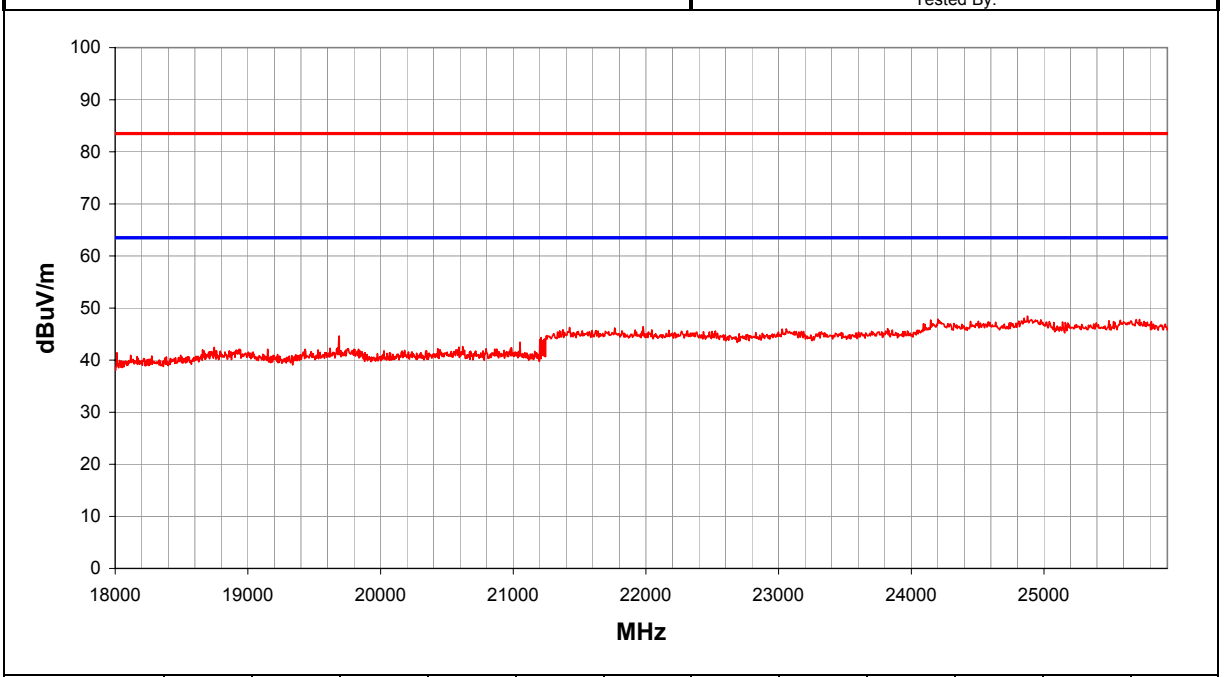
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
24875.690	36.9	36.3	0.0	40.4	7.4	0.0	V		0.0	48.5	83.5	-35.0
24850.720	36.5	36.3	0.0	40.4	7.4	0.0	H		0.0	48.0	83.5	-35.5
24201.480	36.8	36.4	0.0	40.4	7.0	0.0	V		0.0	47.9	83.5	-35.6
25719.700	35.4	35.7	0.0	40.5	7.6	0.0	H		0.0	47.8	83.5	-35.7
25694.730	35.4	35.7	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
25489.970	35.4	35.9	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
24506.120	36.2	36.3	0.0	40.4	7.2	0.0	V		0.0	47.5	83.5	-36.0
24446.190	36.2	36.4	0.0	40.4	7.2	0.0	H		0.0	47.4	83.5	-36.1
26044.320	34.7	35.5	0.0	40.5	7.7	0.0	V		0.0	47.4	83.5	-36.1
26029.330	34.7	35.5	0.0	40.5	7.7	0.0	H		0.0	47.4	83.5	-36.1
21979.090	35.1	36.0	0.0	40.3	7.0	0.0	V		0.0	46.4	83.5	-37.1
21424.740	35.3	36.2	0.0	40.3	6.9	0.0	V		0.0	46.3	83.5	-37.2
21764.340	35.0	36.1	0.0	40.3	7.0	0.0	H		0.0	46.2	83.5	-37.3
23821.920	35.2	36.3	0.0	40.4	6.8	0.0	V		0.0	46.1	83.5	-37.4
23057.820	35.3	36.1	0.0	40.4	6.4	0.0	H		0.0	46.0	83.5	-37.5
23027.860	35.3	36.1	0.0	40.4	6.4	0.0	V		0.0	46.0	83.5	-37.5
21374.790	34.9	36.3	0.0	40.3	6.9	0.0	H		0.0	45.8	83.5	-37.7
22044.010	34.5	36.0	0.0	40.3	7.0	0.0	H		0.0	45.8	83.5	-37.7
22173.860	34.5	36.0	0.0	40.3	6.9	0.0	H		0.0	45.7	83.5	-37.8
19687.970	34.8	36.8	0.0	40.3	6.4	0.0	V		0.0	44.6	83.5	-38.9
21209.990	33.5	36.3	0.0	40.3	6.8	0.0	V		0.0	44.3	83.5	-39.2

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, dipole antenna

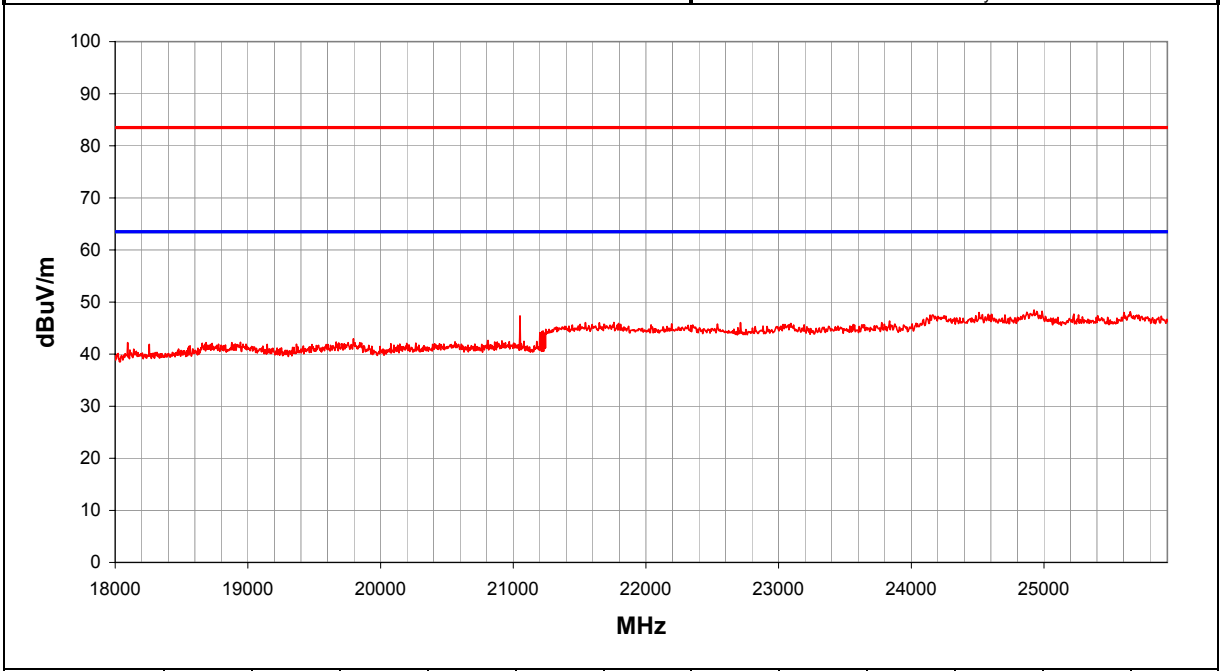
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
24925.630	36.9	36.3	0.0	40.4	7.5	0.0	H		0.0	48.5	83.5	-35.0
24925.630	36.7	36.3	0.0	40.4	7.5	0.0	V		0.0	48.3	83.5	-35.2
25649.780	35.8	35.8	0.0	40.5	7.6	0.0	H		0.0	48.1	83.5	-35.4
24511.120	36.7	36.3	0.0	40.4	7.2	0.0	H		0.0	48.0	83.5	-35.5
26069.290	35.1	35.5	0.0	40.5	7.7	0.0	H		0.0	47.8	83.5	-35.7
25225.280	35.8	36.1	0.0	40.5	7.5	0.0	H		0.0	47.7	83.5	-35.8
24606.000	36.3	36.3	0.0	40.4	7.3	0.0	V		0.0	47.7	83.5	-35.8
25260.240	35.6	36.1	0.0	40.5	7.6	0.0	H		0.0	47.5	83.5	-36.0
24141.550	36.5	36.4	0.0	40.4	7.0	0.0	H		0.0	47.5	83.5	-36.0
25599.840	35.1	35.8	0.0	40.5	7.6	0.0	V		0.0	47.4	83.5	-36.1
21051.330	36.6	36.4	0.0	40.3	6.8	0.0	H		0.0	47.3	83.5	-36.2
23836.910	35.5	36.4	0.0	40.4	6.8	0.0	V		0.0	46.4	83.5	-37.1
21759.340	34.9	36.1	0.0	40.3	7.0	0.0	H		0.0	46.1	83.5	-37.4
22713.220	35.2	36.1	0.0	40.4	6.6	0.0	V		0.0	46.1	83.5	-37.4
21544.600	35.0	36.2	0.0	40.3	6.9	0.0	V		0.0	46.0	83.5	-37.5
23092.780	35.2	36.1	0.0	40.4	6.4	0.0	H		0.0	45.9	83.5	-37.6
22193.830	34.6	36.0	0.0	40.3	6.9	0.0	V		0.0	45.8	83.5	-37.7
22538.430	34.8	36.1	0.0	40.4	6.7	0.0	V		0.0	45.8	83.5	-37.7
22538.430	34.7	36.1	0.0	40.4	6.7	0.0	H		0.0	45.7	83.5	-37.8
21224.970	33.6	36.3	0.0	40.3	6.8	0.0	H		0.0	44.4	83.5	-39.1
21214.980	33.5	36.3	0.0	40.3	6.8	0.0	H		0.0	44.3	83.5	-39.2

**EMC RADIATED EMISSIONS DATA SHEET**

REV df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, dipole antenna

**EUT OPERATING MODES**

Transmitting radio b

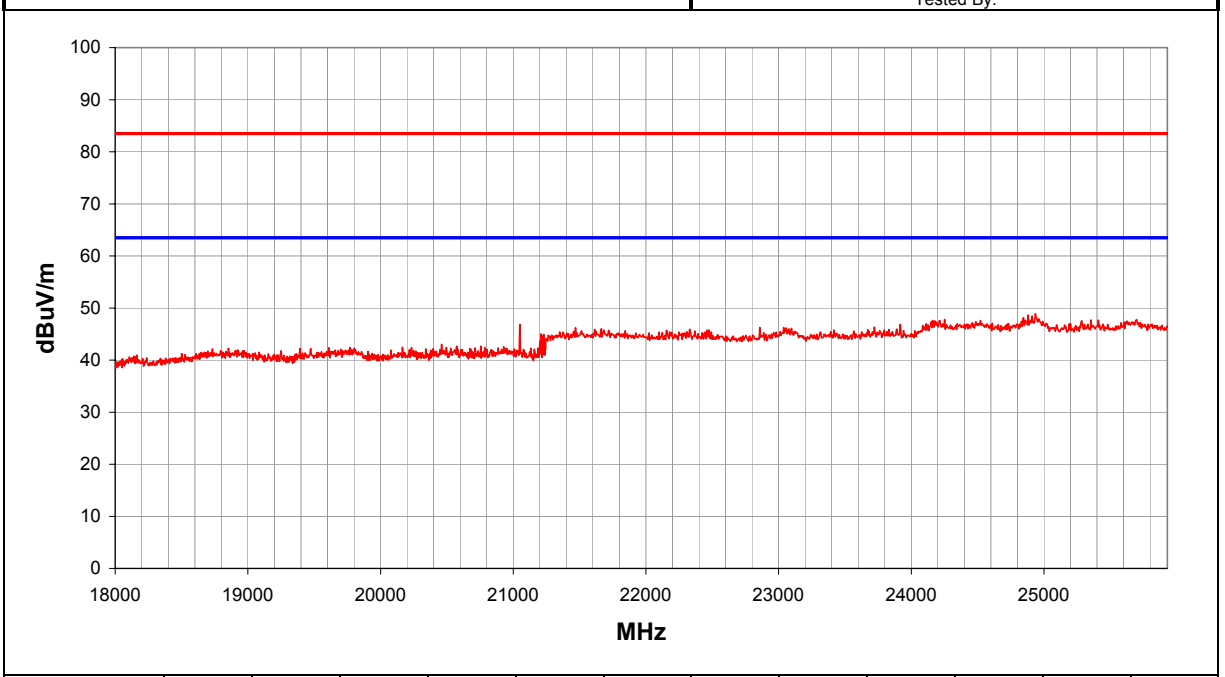
**DEVIATIONS FROM TEST STANDARD**

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)
24935.620	37.3	36.3	0.0	40.4	7.5	0.0	H		0.0	48.9	83.5	-34.6
24880.680	37.1	36.3	0.0	40.4	7.4	0.0	V		0.0	48.7	83.5	-34.8
26144.200	35.2	35.5	0.0	40.5	7.7	0.0	H		0.0	47.9	83.5	-35.6
24251.420	36.7	36.4	0.0	40.4	7.1	0.0	H		0.0	47.8	83.5	-35.7
25699.720	35.4	35.7	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
25355.130	35.7	36.0	0.0	40.5	7.6	0.0	H		0.0	47.7	83.5	-35.8
25410.060	35.6	36.0	0.0	40.5	7.6	0.0	H		0.0	47.7	83.5	-35.8
24161.530	36.6	36.4	0.0	40.4	7.0	0.0	V		0.0	47.6	83.5	-35.9
24521.100	36.3	36.3	0.0	40.4	7.2	0.0	H		0.0	47.6	83.5	-35.9
25689.730	35.2	35.7	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
26039.320	34.8	35.5	0.0	40.5	7.7	0.0	V		0.0	47.5	83.5	-36.0
23916.810	36.0	36.4	0.0	40.4	6.9	0.0	H		0.0	46.9	83.5	-36.6
21051.330	36.1	36.4	0.0	40.3	6.8	0.0	H		0.0	46.8	83.5	-36.7
23722.040	35.5	36.3	0.0	40.4	6.8	0.0	H		0.0	46.3	83.5	-37.2
23037.840	35.6	36.1	0.0	40.4	6.4	0.0	H		0.0	46.3	83.5	-37.2
22858.050	35.5	36.1	0.0	40.4	6.5	0.0	V		0.0	46.3	83.5	-37.2
21469.680	35.2	36.2	0.0	40.3	6.9	0.0	H		0.0	46.2	83.5	-37.3
23057.820	35.5	36.1	0.0	40.4	6.4	0.0	V		0.0	46.2	83.5	-37.3
21664.460	34.9	36.1	0.0	40.3	6.9	0.0	V		0.0	46.0	83.5	-37.5
23891.840	35.1	36.4	0.0	40.4	6.8	0.0	V		0.0	46.0	83.5	-37.5
22328.680	34.8	36.0	0.0	40.3	6.8	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: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

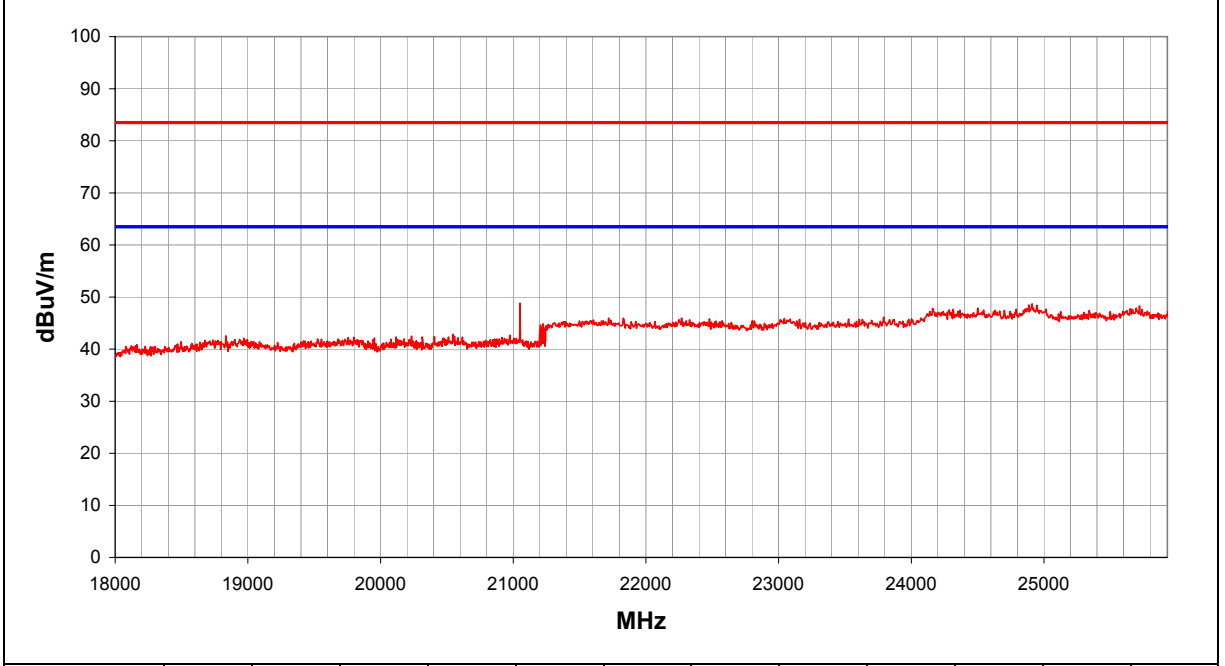
**DEVIATIONS FROM TEST STANDARD**

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)
21051.330	38.1	36.4	0.0	40.3	6.8	0.0	H		0.0	48.8	83.5	-34.7
24910.650	37.1	36.3	0.0	40.4	7.4	0.0	V		0.0	48.7	83.5	-34.8
24945.610	36.8	36.3	0.0	40.4	7.5	0.0	H		0.0	48.4	83.5	-35.1
25719.700	35.9	35.7	0.0	40.5	7.6	0.0	V		0.0	48.3	83.5	-35.2
24501.130	36.6	36.3	0.0	40.4	7.2	0.0	V		0.0	47.9	83.5	-35.6
24161.530	36.8	36.4	0.0	40.4	7.0	0.0	V		0.0	47.8	83.5	-35.7
25664.760	35.3	35.8	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
24316.340	36.5	36.4	0.0	40.4	7.1	0.0	V		0.0	47.6	83.5	-35.9
26109.240	34.8	35.5	0.0	40.5	7.7	0.0	V		0.0	47.5	83.5	-36.0
24286.380	36.4	36.4	0.0	40.4	7.1	0.0	H		0.0	47.5	83.5	-36.0
24546.070	36.2	36.3	0.0	40.4	7.2	0.0	H		0.0	47.5	83.5	-36.0
25340.140	35.4	36.0	0.0	40.5	7.6	0.0	H		0.0	47.4	83.5	-36.1
23791.960	35.3	36.3	0.0	40.4	6.8	0.0	H		0.0	46.2	83.5	-37.3
21719.390	34.8	36.1	0.0	40.3	6.9	0.0	V		0.0	46.0	83.5	-37.5
22268.750	34.8	36.0	0.0	40.3	6.8	0.0	H		0.0	46.0	83.5	-37.5
21829.260	34.7	36.1	0.0	40.3	7.0	0.0	H		0.0	45.9	83.5	-37.6
23042.840	35.2	36.1	0.0	40.4	6.4	0.0	V		0.0	45.9	83.5	-37.6
22478.500	34.8	36.0	0.0	40.3	6.7	0.0	H		0.0	45.8	83.5	-37.7
23082.790	35.0	36.1	0.0	40.4	6.4	0.0	H		0.0	45.7	83.5	-37.8
22248.770	34.5	36.0	0.0	40.3	6.9	0.0	V		0.0	45.7	83.5	-37.8
21051.330	34.4	36.4	0.0	40.3	6.8	0.0	V		0.0	45.1	83.5	-38.4

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, yagi antenna

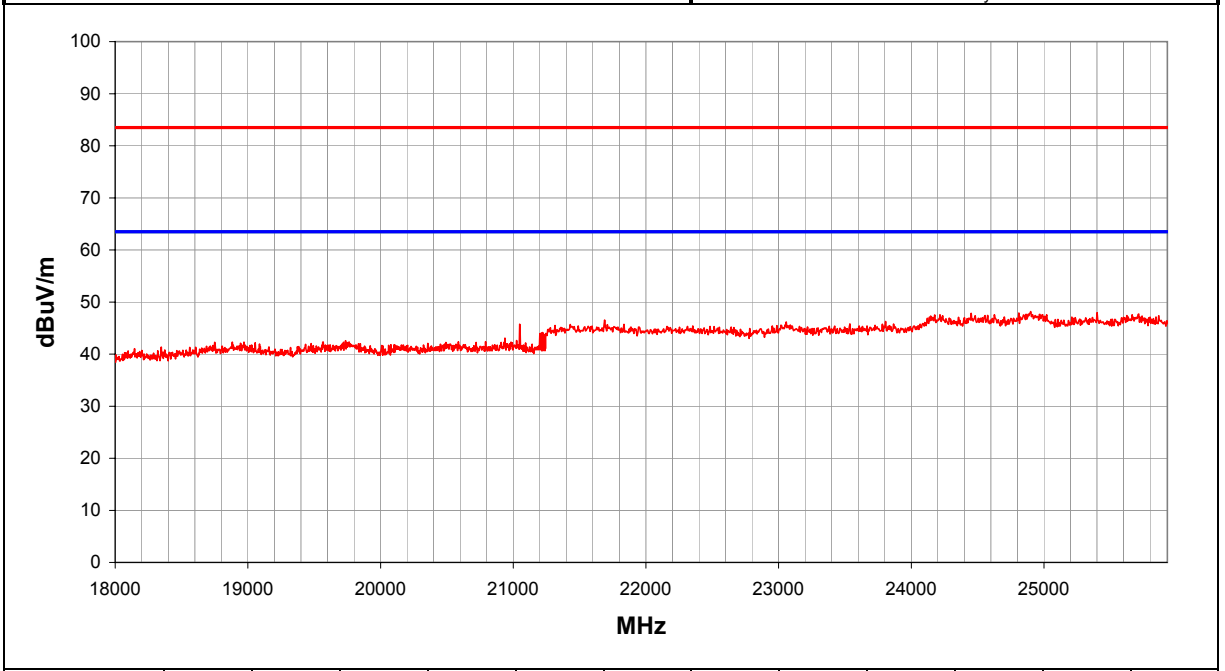
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
24900.660	36.6	36.3	0.0	40.4	7.4	0.0	V		0.0	48.2	83.5	-35.3
25979.390	35.3	35.5	0.0	40.5	7.7	0.0	H		0.0	48.0	83.5	-35.5
25400.070	35.9	36.0	0.0	40.5	7.6	0.0	H		0.0	48.0	83.5	-35.5
24895.660	36.3	36.3	0.0	40.4	7.4	0.0	H		0.0	47.9	83.5	-35.6
24451.190	36.6	36.4	0.0	40.4	7.2	0.0	H		0.0	47.8	83.5	-35.7
26089.260	35.1	35.5	0.0	40.5	7.7	0.0	V		0.0	47.8	83.5	-35.7
25714.700	35.3	35.7	0.0	40.5	7.6	0.0	V		0.0	47.7	83.5	-35.8
24625.980	36.2	36.3	0.0	40.4	7.3	0.0	H		0.0	47.6	83.5	-35.9
24216.460	36.5	36.4	0.0	40.4	7.0	0.0	H		0.0	47.6	83.5	-35.9
25664.760	35.2	35.8	0.0	40.5	7.6	0.0	H		0.0	47.5	83.5	-36.0
24176.510	36.5	36.4	0.0	40.4	7.0	0.0	V		0.0	47.5	83.5	-36.0
24576.040	36.1	36.3	0.0	40.4	7.2	0.0	H		0.0	47.4	83.5	-36.1
24556.060	36.1	36.3	0.0	40.4	7.2	0.0	V		0.0	47.4	83.5	-36.1
24146.540	36.3	36.4	0.0	40.4	7.0	0.0	H		0.0	47.3	83.5	-36.2
24700.890	35.7	36.3	0.0	40.4	7.3	0.0	H		0.0	47.1	83.5	-36.4
21689.430	35.4	36.1	0.0	40.3	6.9	0.0	V		0.0	46.5	83.5	-37.0
23806.940	35.4	36.3	0.0	40.4	6.8	0.0	V		0.0	46.3	83.5	-37.2
23057.820	35.5	36.1	0.0	40.4	6.4	0.0	H		0.0	46.2	83.5	-37.3
23537.260	35.0	36.3	0.0	40.4	6.7	0.0	H		0.0	45.8	83.5	-37.7
23781.970	34.9	36.3	0.0	40.4	6.8	0.0	H		0.0	45.7	83.5	-37.8
21048.080	35.0	36.4	0.0	40.3	6.8	0.0	V		0.0	45.7	83.5	-37.8

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, yagi antenna

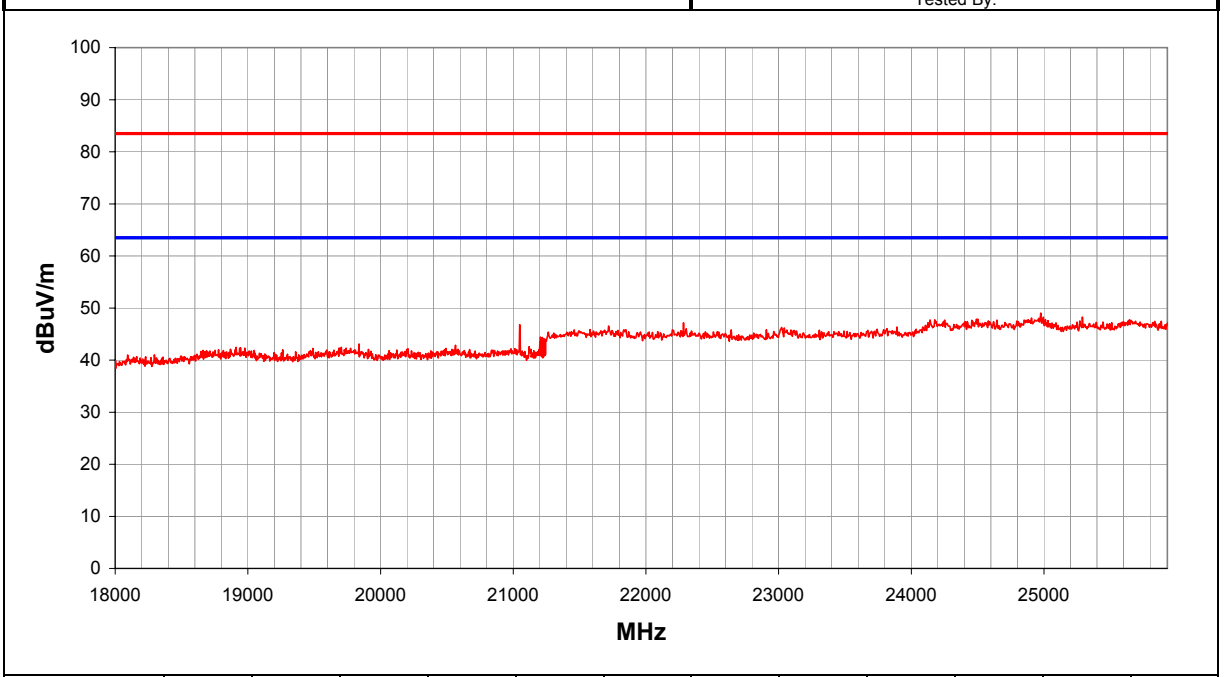
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
24975.570	37.4	36.3	0.0	40.4	7.5	0.0	V		0.0	49.0	83.5	-34.5
25290.200	36.3	36.1	0.0	40.5	7.6	0.0	V		0.0	48.3	83.5	-35.2
24995.550	36.6	36.3	0.0	40.4	7.5	0.0	H		0.0	48.2	83.5	-35.3
24501.130	36.6	36.3	0.0	40.4	7.2	0.0	V		0.0	47.9	83.5	-35.6
24176.510	36.7	36.4	0.0	40.4	7.0	0.0	H		0.0	47.7	83.5	-35.8
25644.790	35.4	35.8	0.0	40.5	7.6	0.0	H		0.0	47.7	83.5	-35.8
24141.550	36.7	36.4	0.0	40.4	7.0	0.0	V		0.0	47.7	83.5	-35.8
24645.960	36.3	36.3	0.0	40.4	7.3	0.0	H		0.0	47.7	83.5	-35.8
25270.220	35.6	36.1	0.0	40.5	7.6	0.0	H		0.0	47.5	83.5	-36.0
22283.730	36.0	36.0	0.0	40.3	6.8	0.0	V		0.0	47.1	83.5	-36.4
21048.080	36.1	36.4	0.0	40.3	6.8	0.0	V		0.0	46.8	83.5	-36.7
21719.390	35.4	36.1	0.0	40.3	6.9	0.0	H		0.0	46.6	83.5	-36.9
23891.840	35.5	36.4	0.0	40.4	6.8	0.0	V		0.0	46.4	83.5	-37.1
23022.860	35.6	36.1	0.0	40.4	6.4	0.0	H		0.0	46.3	83.5	-37.2
21048.080	35.5	36.4	0.0	40.3	6.8	0.0	H		0.0	46.2	83.5	-37.3
22303.710	34.9	36.0	0.0	40.3	6.8	0.0	H		0.0	46.0	83.5	-37.5
23742.020	35.1	36.3	0.0	40.4	6.8	0.0	H		0.0	45.9	83.5	-37.6
23027.860	35.2	36.1	0.0	40.4	6.4	0.0	V		0.0	45.9	83.5	-37.6
21849.240	34.6	36.1	0.0	40.3	7.0	0.0	V		0.0	45.8	83.5	-37.7
22908.000	35.1	36.1	0.0	40.4	6.5	0.0	H		0.0	45.8	83.5	-37.7
22643.310	34.9	36.1	0.0	40.4	6.6	0.0	H		0.0	45.8	83.5	-37.7



**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

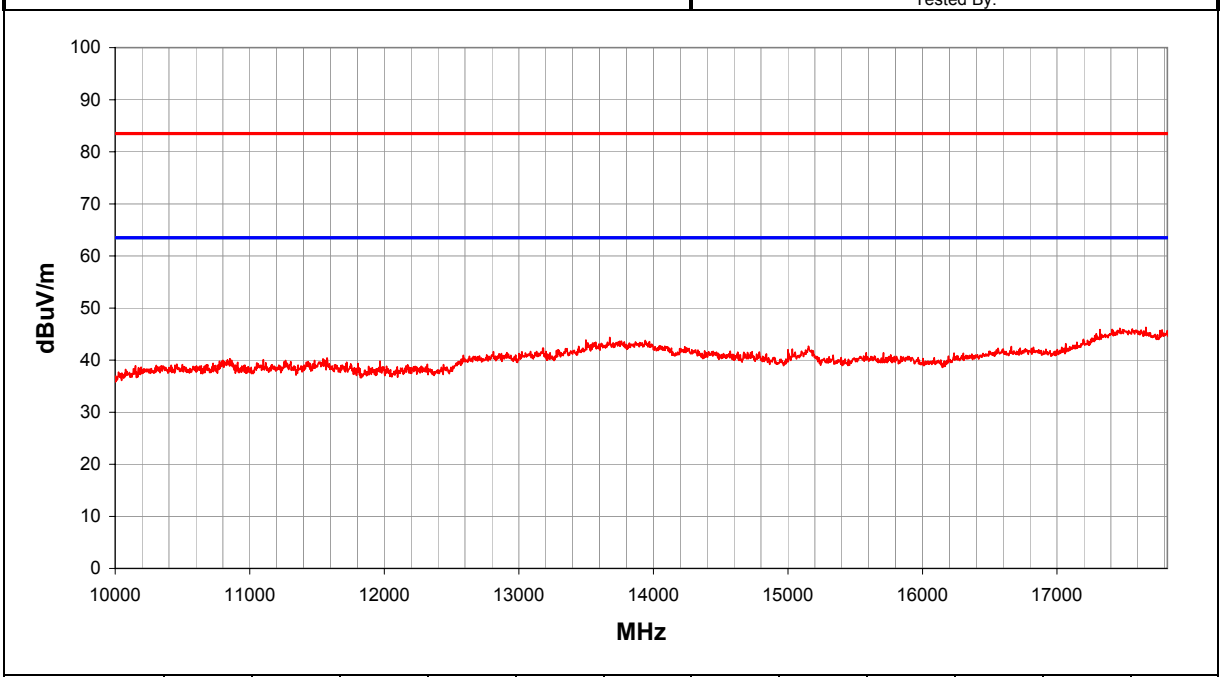
**DEVIATIONS FROM TEST STANDARD**

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)
17912.650	30.8	34.9	0.0	44.7	6.1	0.0	H		0.0	46.7	83.5	-36.8
17660.980	30.6	34.7	0.0	44.4	6.0	0.0	H		0.0	46.3	83.5	-37.2
17466.240	30.8	34.6	0.0	44.0	6.0	0.0	V		0.0	46.1	83.5	-37.4
17319.430	31.6	34.6	0.0	42.9	6.0	0.0	H		0.0	45.9	83.5	-37.6
17948.610	29.9	34.9	0.0	44.7	6.1	0.0	V		0.0	45.9	83.5	-37.6
13676.160	33.1	34.6	0.0	41.0	4.9	0.0	H		0.0	44.4	83.5	-39.1
13498.110	33.0	34.7	0.0	40.7	4.9	0.0	V		0.0	43.9	83.5	-39.6
13939.480	31.9	34.5	0.0	41.4	5.0	0.0	V		0.0	43.8	83.5	-39.7
15152.850	32.4	34.2	0.0	39.1	5.3	0.0	H		0.0	42.7	83.5	-40.8
16660.290	31.1	34.2	0.0	40.0	5.8	0.0	V		0.0	42.6	83.5	-40.9
14232.900	30.9	34.4	0.0	41.0	5.1	0.0	V		0.0	42.6	83.5	-40.9
16825.070	30.7	34.3	0.0	40.2	5.8	0.0	H		0.0	42.5	83.5	-41.0
15155.850	32.1	34.2	0.0	39.1	5.3	0.0	V		0.0	42.4	83.5	-41.1
14247.950	30.7	34.4	0.0	41.0	5.1	0.0	H		0.0	42.4	83.5	-41.1
13182.130	32.2	34.9	0.0	40.1	4.8	0.0	H		0.0	42.3	83.5	-41.2
13177.110	32.2	34.9	0.0	40.1	4.8	0.0	V		0.0	42.3	83.5	-41.2
15032.970	31.5	34.2	0.0	39.5	5.3	0.0	V		0.0	42.1	83.5	-41.4
15000.000	31.3	34.2	0.0	39.6	5.3	0.0	V		0.0	42.0	83.5	-41.5
14571.450	30.5	34.3	0.0	40.4	5.2	0.0	H		0.0	41.7	83.5	-41.8
12810.970	32.4	35.0	0.0	39.5	4.8	0.0	V		0.0	41.6	83.5	-41.9
14734.460	30.6	34.3	0.0	40.1	5.2	0.0	H		0.0	41.6	83.5	-41.9

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

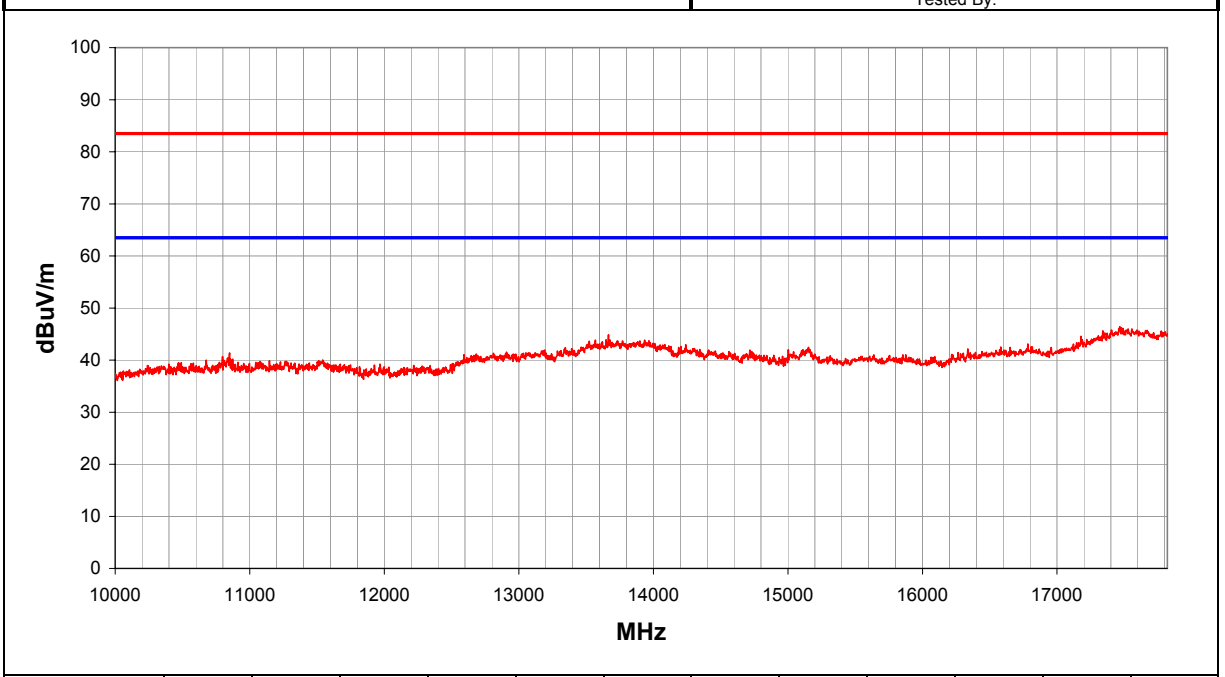
**DEVIATIONS FROM TEST STANDARD**

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)
17891.680	30.7	34.8	0.0	44.7	6.1	0.0	V		0.0	46.6	83.5	-36.9
17466.240	31.1	34.6	0.0	44.0	6.0	0.0	V		0.0	46.4	83.5	-37.1
17478.220	30.8	34.6	0.0	44.0	6.0	0.0	H		0.0	46.2	83.5	-37.3
17909.660	30.2	34.9	0.0	44.7	6.1	0.0	H		0.0	46.1	83.5	-37.4
13666.130	33.6	34.7	0.0	41.0	4.9	0.0	H		0.0	44.8	83.5	-38.7
17178.610	31.3	34.5	0.0	41.8	5.9	0.0	V		0.0	44.6	83.5	-38.9
13648.580	32.7	34.7	0.0	40.9	4.9	0.0	V		0.0	43.9	83.5	-39.6
13934.470	32.0	34.5	0.0	41.4	5.0	0.0	H		0.0	43.9	83.5	-39.6
13568.330	32.8	34.7	0.0	40.8	4.9	0.0	V		0.0	43.8	83.5	-39.7
13523.190	32.7	34.7	0.0	40.7	4.9	0.0	H		0.0	43.6	83.5	-39.9
16783.130	31.4	34.3	0.0	40.2	5.8	0.0	H		0.0	43.1	83.5	-40.4
14240.420	31.3	34.4	0.0	41.0	5.1	0.0	H		0.0	43.0	83.5	-40.5
16816.080	30.8	34.3	0.0	40.2	5.8	0.0	V		0.0	42.5	83.5	-41.0
16582.390	31.1	34.2	0.0	39.8	5.8	0.0	H		0.0	42.5	83.5	-41.0
15152.850	32.2	34.2	0.0	39.1	5.3	0.0	H		0.0	42.5	83.5	-41.0
14187.760	30.7	34.4	0.0	41.1	5.1	0.0	V		0.0	42.4	83.5	-41.1
16336.690	31.5	34.1	0.0	39.0	5.7	0.0	V		0.0	42.1	83.5	-41.4
15149.850	31.8	34.2	0.0	39.1	5.3	0.0	V		0.0	42.1	83.5	-41.4
15003.000	31.3	34.2	0.0	39.6	5.3	0.0	H		0.0	42.0	83.5	-41.5
14716.910	30.9	34.3	0.0	40.1	5.2	0.0	H		0.0	41.9	83.5	-41.6
13192.160	31.8	34.9	0.0	40.1	4.8	0.0	V		0.0	41.9	83.5	-41.6

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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, yagi antenna

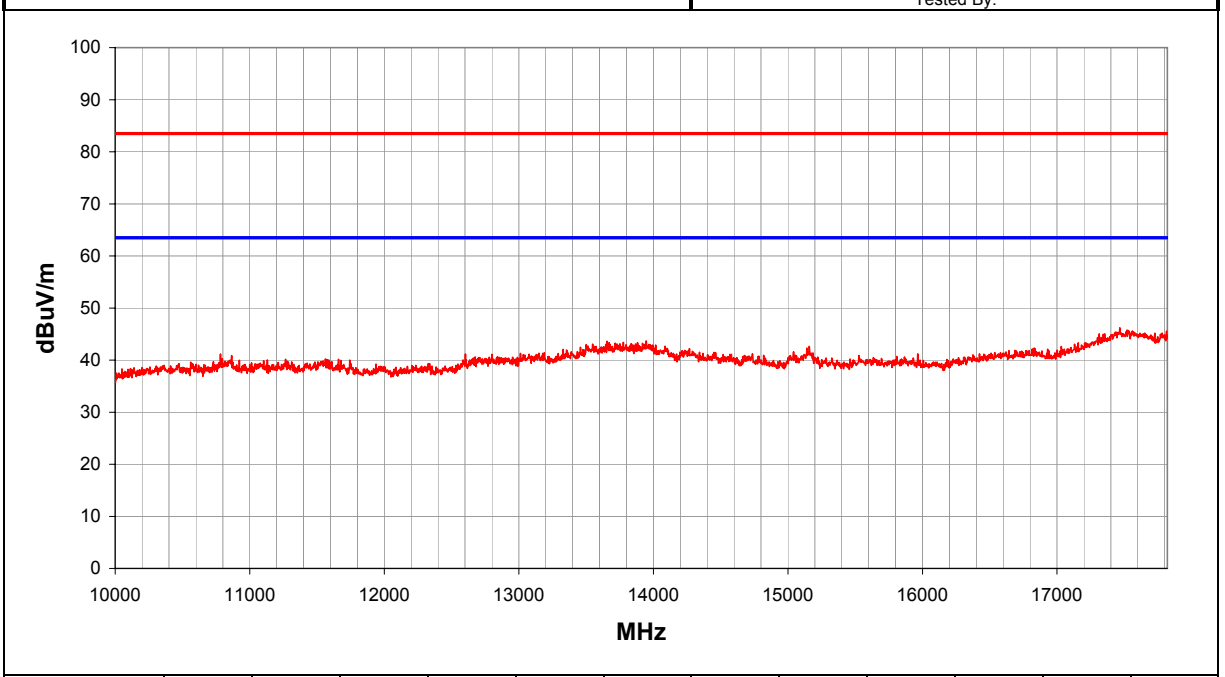
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	Test Distance (m)	Run #
Evaluation	1	60

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17466.240	30.9	34.6	0.0	44.0	6.0	0.0	H		0.0	46.2	83.5	-37.3
17900.670	30.1	34.9	0.0	44.7	6.1	0.0	H		0.0	46.0	83.5	-37.5
17933.630	30.0	34.9	0.0	44.7	6.1	0.0	H		0.0	45.9	83.5	-37.6
17891.680	29.7	34.8	0.0	44.7	6.1	0.0	V		0.0	45.6	83.5	-37.9
17813.780	29.7	34.8	0.0	44.6	6.1	0.0	V		0.0	45.5	83.5	-38.0
17514.170	29.9	34.7	0.0	44.2	6.0	0.0	V		0.0	45.5	83.5	-38.0
17313.440	30.8	34.6	0.0	42.8	6.0	0.0	V		0.0	45.0	83.5	-38.5
13947.010	31.8	34.5	0.0	41.4	5.0	0.0	H		0.0	43.7	83.5	-39.8
13656.100	32.4	34.7	0.0	40.9	4.9	0.0	H		0.0	43.6	83.5	-39.9
13776.480	31.9	34.6	0.0	41.1	5.0	0.0	V		0.0	43.4	83.5	-40.1
13671.150	32.1	34.6	0.0	41.0	4.9	0.0	V		0.0	43.4	83.5	-40.1
13881.800	31.6	34.6	0.0	41.3	5.0	0.0	V		0.0	43.3	83.5	-40.2
13548.270	32.1	34.7	0.0	40.8	4.9	0.0	H		0.0	43.1	83.5	-40.4
13500.620	32.1	34.7	0.0	40.7	4.9	0.0	V		0.0	43.0	83.5	-40.5
15158.840	32.4	34.2	0.0	39.1	5.3	0.0	V		0.0	42.7	83.5	-40.8
13457.980	31.7	34.7	0.0	40.6	4.9	0.0	V		0.0	42.5	83.5	-41.0
15140.860	32.0	34.2	0.0	39.1	5.3	0.0	H		0.0	42.3	83.5	-41.2
16834.060	30.5	34.3	0.0	40.2	5.9	0.0	V		0.0	42.3	83.5	-41.2
16828.070	30.5	34.3	0.0	40.2	5.8	0.0	H		0.0	42.3	83.5	-41.2
14102.490	30.4	34.5	0.0	41.3	5.0	0.0	H		0.0	42.3	83.5	-41.2
14268.010	30.6	34.4	0.0	41.0	5.1	0.0	V		0.0	42.2	83.5	-41.3

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
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, yagi antenna

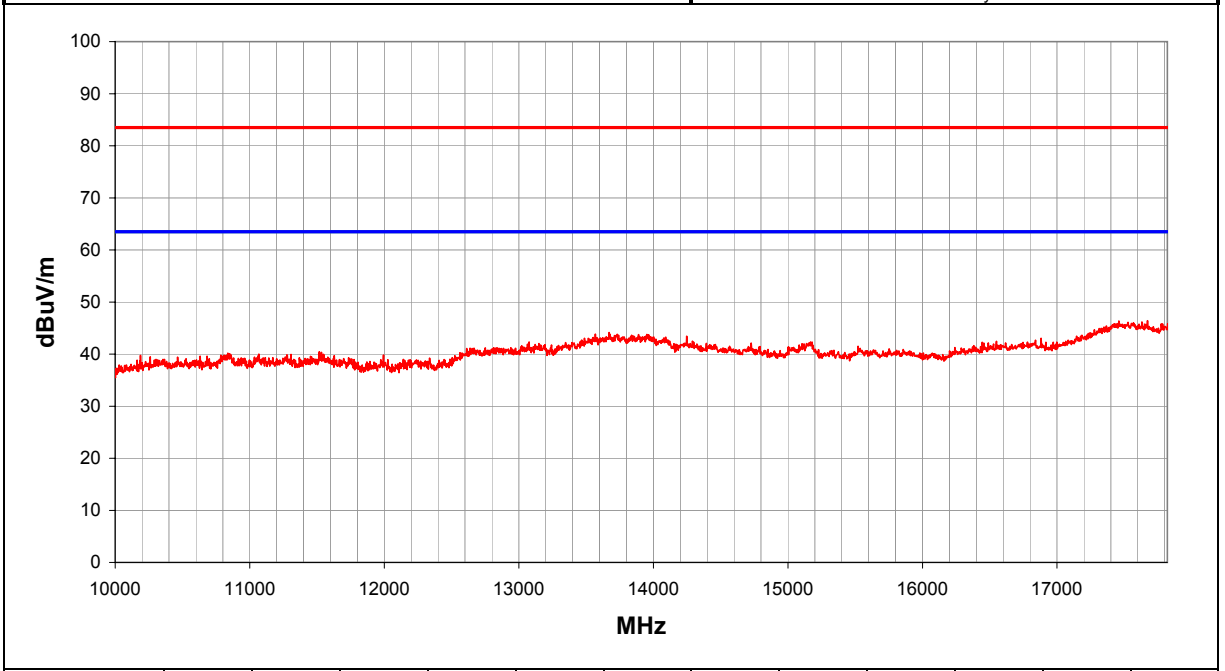
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	Test Distance (m)	Run #
Evaluation	1	61

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
17672.970	30.7	34.7	0.0	44.4	6.0	0.0	V		0.0	46.4	83.5	-37.1
17631.020	30.5	34.7	0.0	44.4	6.0	0.0	H		0.0	46.2	83.5	-37.3
17906.660	30.1	34.9	0.0	44.7	6.1	0.0	V		0.0	46.0	83.5	-37.5
13671.150	32.9	34.6	0.0	41.0	4.9	0.0	V		0.0	44.2	83.5	-39.3
13568.330	32.8	34.7	0.0	40.8	4.9	0.0	V		0.0	43.8	83.5	-39.7
13952.020	31.9	34.5	0.0	41.4	5.0	0.0	V		0.0	43.8	83.5	-39.7
13889.330	32.0	34.5	0.0	41.3	5.0	0.0	H		0.0	43.8	83.5	-39.7
14247.950	31.8	34.4	0.0	41.0	5.1	0.0	V		0.0	43.5	83.5	-40.0
16882.000	31.2	34.3	0.0	40.3	5.9	0.0	H		0.0	43.0	83.5	-40.5
16840.050	30.9	34.3	0.0	40.2	5.9	0.0	V		0.0	42.7	83.5	-40.8
14290.580	30.9	34.4	0.0	40.9	5.1	0.0	H		0.0	42.5	83.5	-41.0
13076.800	32.5	34.9	0.0	39.9	4.8	0.0	V		0.0	42.3	83.5	-41.2
15167.840	32.1	34.1	0.0	39.0	5.4	0.0	V		0.0	42.3	83.5	-41.2
16444.570	31.2	34.1	0.0	39.5	5.7	0.0	V		0.0	42.3	83.5	-41.2
15167.840	32.0	34.1	0.0	39.0	5.4	0.0	H		0.0	42.2	83.5	-41.3
14726.940	31.1	34.3	0.0	40.1	5.2	0.0	V		0.0	42.1	83.5	-41.4
13149.520	32.0	34.9	0.0	40.1	4.8	0.0	H		0.0	42.0	83.5	-41.5
15521.490	32.2	34.0	0.0	37.9	5.5	0.0	H		0.0	41.5	83.5	-42.0
15536.480	31.8	34.0	0.0	37.9	5.5	0.0	V		0.0	41.1	83.5	-42.4
11517.230	32.2	35.3	0.0	39.2	4.4	0.0	H		0.0	40.5	83.5	-43.0
10837.610	33.0	35.2	0.0	38.2	4.2	0.0	H		0.0	40.2	83.5	-43.3

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
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, yagi antenna

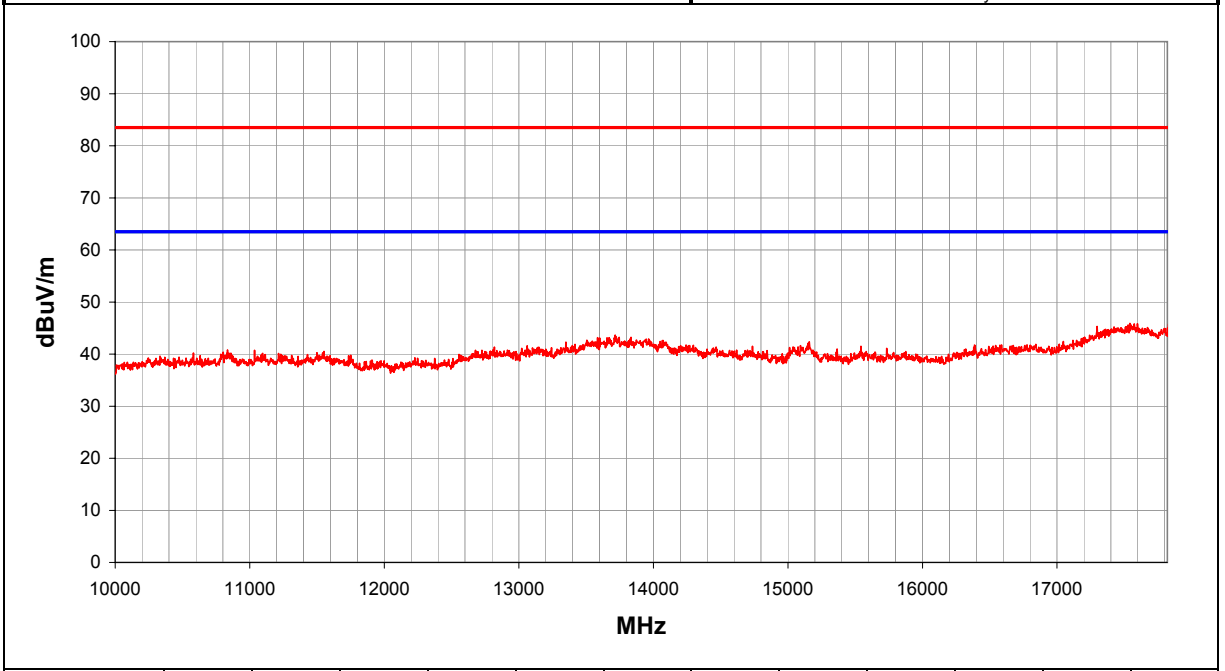
**EUT OPERATING MODES**  
 Transmitting radio b

**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)
17541.140	30.3	34.7	0.0	44.2	6.0	0.0	V		0.0	45.9	83.5	-37.6
17574.100	30.2	34.7	0.0	44.3	6.0	0.0	H		0.0	45.8	83.5	-37.7
17828.760	29.9	34.8	0.0	44.6	6.1	0.0	V		0.0	45.7	83.5	-37.8
17298.460	31.2	34.5	0.0	42.7	6.0	0.0	V		0.0	45.3	83.5	-38.2
17891.680	29.4	34.8	0.0	44.7	6.1	0.0	H		0.0	45.3	83.5	-38.2
13716.290	32.3	34.6	0.0	41.0	4.9	0.0	H		0.0	43.7	83.5	-39.8
13834.160	31.6	34.6	0.0	41.2	5.0	0.0	H		0.0	43.2	83.5	-40.3
13585.880	32.1	34.7	0.0	40.8	4.9	0.0	V		0.0	43.2	83.5	-40.3
13671.150	31.9	34.6	0.0	41.0	4.9	0.0	V		0.0	43.2	83.5	-40.3
13600.930	32.0	34.7	0.0	40.9	4.9	0.0	V		0.0	43.1	83.5	-40.4
13826.630	31.3	34.6	0.0	41.2	5.0	0.0	V		0.0	42.9	83.5	-40.6
13505.630	31.8	34.7	0.0	40.7	4.9	0.0	H		0.0	42.7	83.5	-40.8
14067.380	30.7	34.5	0.0	41.4	5.0	0.0	H		0.0	42.6	83.5	-40.9
14072.400	30.7	34.5	0.0	41.4	5.0	0.0	V		0.0	42.6	83.5	-40.9
17046.780	30.1	34.4	0.0	40.8	5.9	0.0	V		0.0	42.4	83.5	-41.1
15158.840	32.1	34.2	0.0	39.1	5.3	0.0	V		0.0	42.4	83.5	-41.1
13350.150	31.8	34.8	0.0	40.4	4.9	0.0	V		0.0	42.3	83.5	-41.2
17016.820	29.8	34.4	0.0	40.6	5.9	0.0	H		0.0	41.9	83.5	-41.6
16843.050	30.1	34.3	0.0	40.2	5.9	0.0	V		0.0	41.9	83.5	-41.6
16777.130	30.1	34.3	0.0	40.1	5.8	0.0	H		0.0	41.8	83.5	-41.7
14242.930	30.1	34.4	0.0	41.0	5.1	0.0	H		0.0	41.8	83.5	-41.7

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
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, yagi antenna

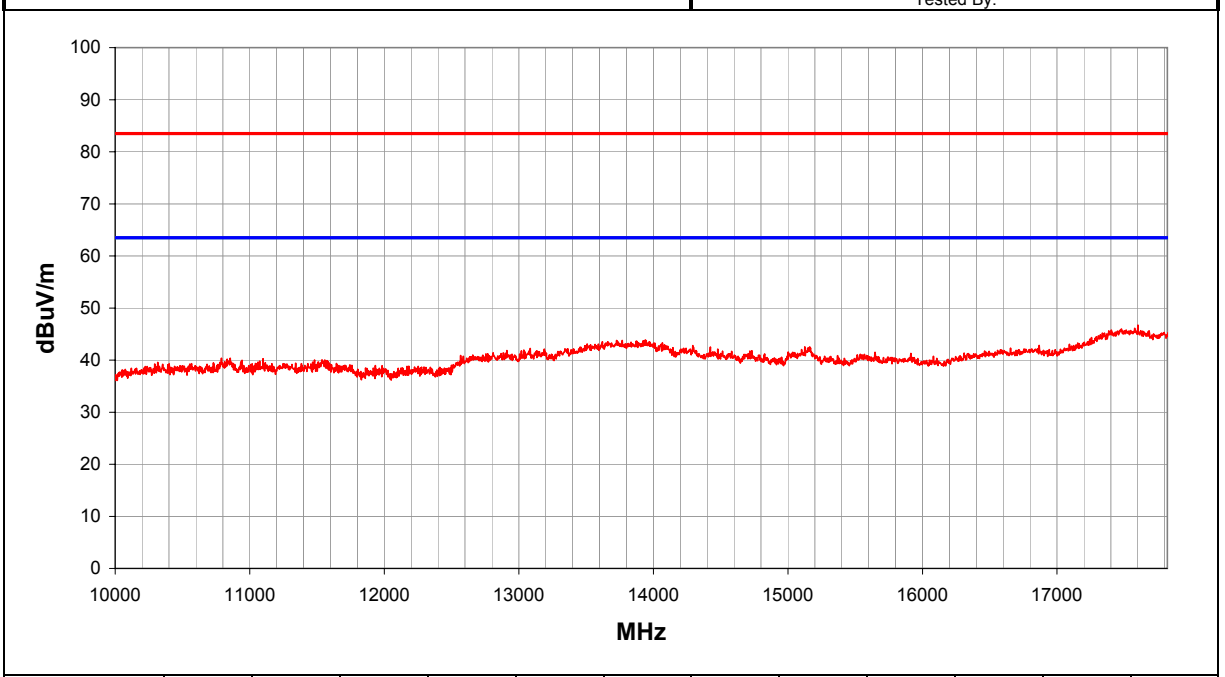
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

RESULTS	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)
17601.060	31.1	34.7	0.0	44.3	6.0	0.0	H		0.0	46.7	83.5	-36.8
17577.090	30.5	34.7	0.0	44.3	6.0	0.0	V		0.0	46.1	83.5	-37.4
17858.720	30.0	34.8	0.0	44.6	6.1	0.0	V		0.0	45.9	83.5	-37.6
13939.480	32.0	34.5	0.0	41.4	5.0	0.0	H		0.0	43.9	83.5	-39.6
13726.320	32.4	34.6	0.0	41.1	4.9	0.0	V		0.0	43.8	83.5	-39.7
13768.950	32.3	34.6	0.0	41.1	5.0	0.0	H		0.0	43.8	83.5	-39.7
16867.020	31.0	34.3	0.0	40.3	5.9	0.0	H		0.0	42.8	83.5	-40.7
14293.090	31.2	34.4	0.0	40.9	5.1	0.0	V		0.0	42.8	83.5	-40.7
15125.880	32.2	34.2	0.0	39.2	5.3	0.0	H		0.0	42.5	83.5	-41.0
15161.840	32.3	34.2	0.0	39.0	5.3	0.0	V		0.0	42.5	83.5	-41.0
14423.490	31.1	34.4	0.0	40.7	5.1	0.0	H		0.0	42.5	83.5	-41.0
13084.320	32.4	34.9	0.0	40.0	4.8	0.0	H		0.0	42.3	83.5	-41.2
14478.660	30.8	34.4	0.0	40.5	5.1	0.0	V		0.0	42.1	83.5	-41.4
13189.650	32.0	34.9	0.0	40.1	4.8	0.0	V		0.0	42.1	83.5	-41.4
12911.280	32.4	35.0	0.0	39.7	4.8	0.0	V		0.0	41.9	83.5	-41.6
14731.950	30.8	34.3	0.0	40.1	5.2	0.0	H		0.0	41.8	83.5	-41.7
14716.910	30.7	34.3	0.0	40.1	5.2	0.0	V		0.0	41.7	83.5	-41.8
15647.370	32.2	34.0	0.0	37.8	5.5	0.0	H		0.0	41.5	83.5	-42.0
15914.110	32.0	33.9	0.0	37.7	5.6	0.0	V		0.0	41.3	83.5	-42.2
15536.480	31.8	34.0	0.0	37.9	5.5	0.0	V		0.0	41.1	83.5	-42.4
16081.940	31.1	33.9	0.0	37.9	5.6	0.0	V		0.0	40.7	83.5	-42.8

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

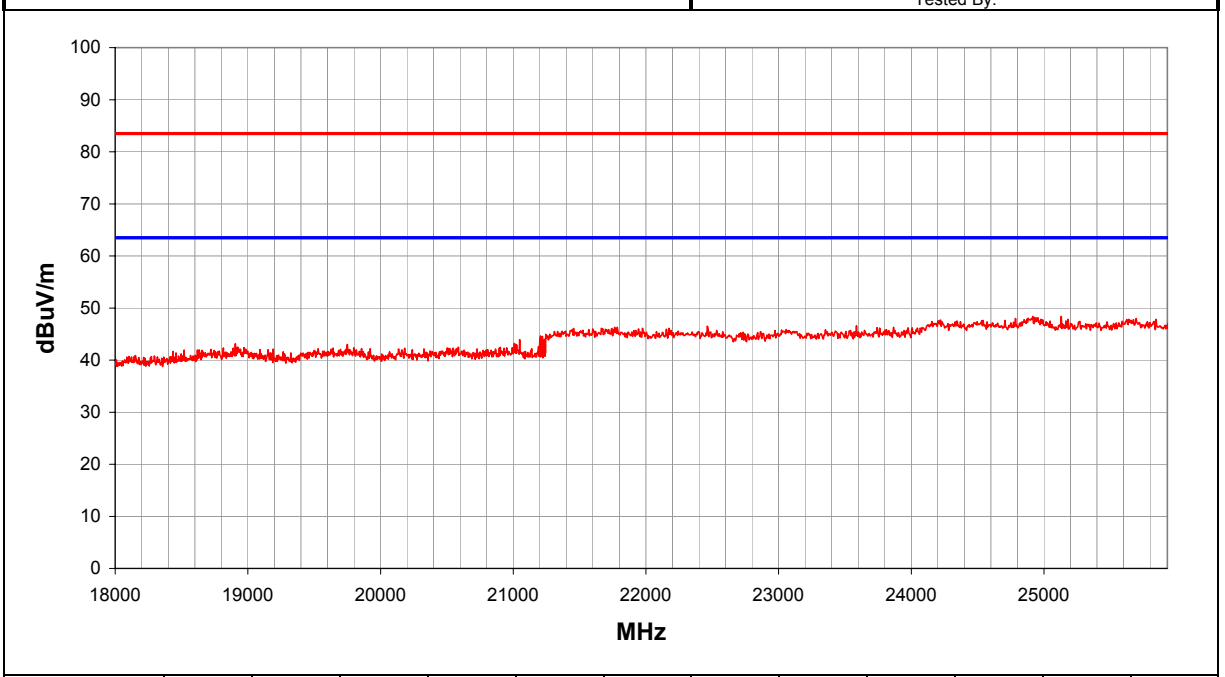
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	64

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
25130.390	36.6	36.2	0.0	40.5	7.5	0.0	V		0.0	48.4	83.5	-35.1
24915.640	36.8	36.3	0.0	40.4	7.4	0.0	V		0.0	48.4	83.5	-35.1
24955.590	36.5	36.3	0.0	40.4	7.5	0.0	H		0.0	48.1	83.5	-35.4
25694.730	35.6	35.7	0.0	40.5	7.6	0.0	V		0.0	48.0	83.5	-35.5
25180.330	36.0	36.2	0.0	40.5	7.5	0.0	H		0.0	47.8	83.5	-35.7
25844.550	35.3	35.6	0.0	40.5	7.7	0.0	H		0.0	47.8	83.5	-35.7
25639.790	35.5	35.8	0.0	40.5	7.6	0.0	H		0.0	47.8	83.5	-35.7
24221.460	36.6	36.4	0.0	40.4	7.0	0.0	H		0.0	47.7	83.5	-35.8
24705.890	36.2	36.3	0.0	40.4	7.3	0.0	H		0.0	47.6	83.5	-35.9
24201.480	36.5	36.4	0.0	40.4	7.0	0.0	V		0.0	47.6	83.5	-35.9
25165.350	35.7	36.2	0.0	40.5	7.5	0.0	V		0.0	47.5	83.5	-36.0
26084.270	34.7	35.5	0.0	40.5	7.7	0.0	V		0.0	47.4	83.5	-36.1
26049.310	34.7	35.5	0.0	40.5	7.7	0.0	H		0.0	47.4	83.5	-36.1
23587.200	35.8	36.3	0.0	40.4	6.7	0.0	V		0.0	46.6	83.5	-36.9
22463.520	35.5	36.0	0.0	40.3	6.7	0.0	H		0.0	46.5	83.5	-37.0
21784.310	35.1	36.1	0.0	40.3	7.0	0.0	H		0.0	46.3	83.5	-37.2
21764.340	35.1	36.1	0.0	40.3	7.0	0.0	V		0.0	46.3	83.5	-37.2
23866.870	35.4	36.4	0.0	40.4	6.8	0.0	V		0.0	46.3	83.5	-37.2
23742.020	35.4	36.3	0.0	40.4	6.8	0.0	H		0.0	46.2	83.5	-37.3
22173.860	34.9	36.0	0.0	40.3	6.9	0.0	H		0.0	46.1	83.5	-37.4
22468.510	35.0	36.0	0.0	40.3	6.7	0.0	V		0.0	46.0	83.5	-37.5

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	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, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

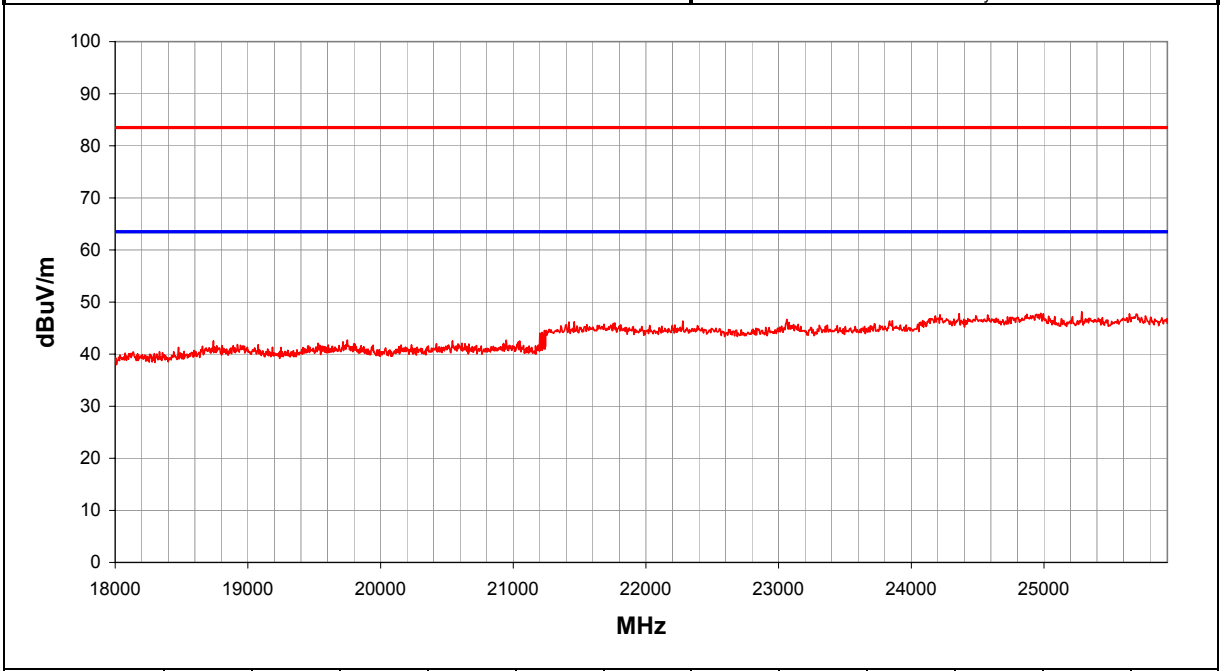
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	65

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
26124.220	35.7	35.5	0.0	40.5	7.7	0.0	V		0.0	48.4	83.5	-35.1
25285.210	36.2	36.1	0.0	40.5	7.6	0.0	V		0.0	48.1	83.5	-35.4
24975.570	36.2	36.3	0.0	40.4	7.5	0.0	V		0.0	47.8	83.5	-35.7
24361.290	36.6	36.4	0.0	40.4	7.1	0.0	V		0.0	47.8	83.5	-35.7
25644.790	35.4	35.8	0.0	40.5	7.6	0.0	V		0.0	47.7	83.5	-35.8
24216.460	36.5	36.4	0.0	40.4	7.0	0.0	V		0.0	47.6	83.5	-35.9
24576.040	36.2	36.3	0.0	40.4	7.2	0.0	V		0.0	47.5	83.5	-36.0
25764.640	34.9	35.7	0.0	40.5	7.7	0.0	H		0.0	47.4	83.5	-36.1
24915.640	35.7	36.3	0.0	40.4	7.4	0.0	H		0.0	47.3	83.5	-36.2
25080.450	35.5	36.2	0.0	40.5	7.5	0.0	H		0.0	47.2	83.5	-36.3
25215.290	35.3	36.1	0.0	40.5	7.5	0.0	H		0.0	47.2	83.5	-36.3
25440.030	34.9	35.9	0.0	40.5	7.6	0.0	H		0.0	47.0	83.5	-36.5
24206.470	35.9	36.4	0.0	40.4	7.0	0.0	H		0.0	47.0	83.5	-36.5
25964.410	34.1	35.5	0.0	40.5	7.7	0.0	H		0.0	46.8	83.5	-36.7
23062.810	36.0	36.1	0.0	40.4	6.4	0.0	V		0.0	46.7	83.5	-36.8
23856.880	35.5	36.4	0.0	40.4	6.8	0.0	V		0.0	46.4	83.5	-37.1
22278.730	35.2	36.0	0.0	40.3	6.8	0.0	V		0.0	46.3	83.5	-37.2
21459.700	35.2	36.2	0.0	40.3	6.9	0.0	H		0.0	46.2	83.5	-37.3
21419.740	35.2	36.2	0.0	40.3	6.9	0.0	V		0.0	46.2	83.5	-37.3
23077.800	35.4	36.1	0.0	40.4	6.4	0.0	H		0.0	46.1	83.5	-37.4
21764.340	34.8	36.1	0.0	40.3	7.0	0.0	V		0.0	46.0	83.5	-37.5



**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	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**

Low Channel, yagi antenna

**EUT OPERATING MODES**

Transmitting radio b

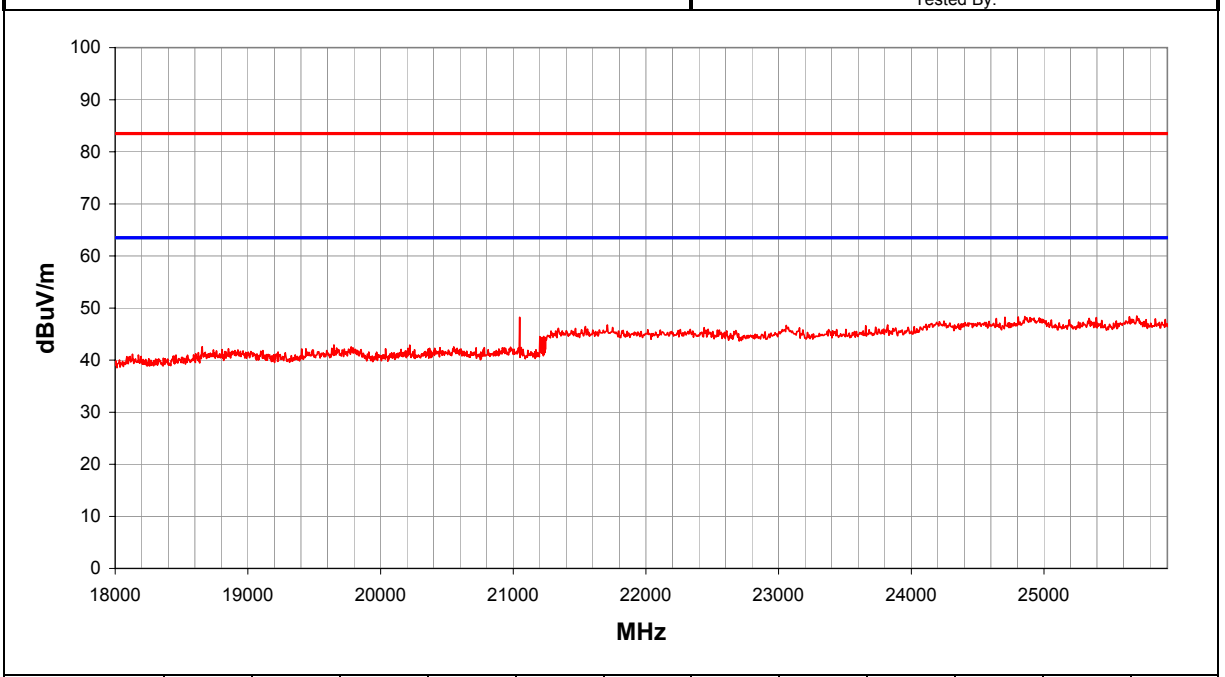
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	66

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
25699.720	36.1	35.7	0.0	40.5	7.6	0.0	V		0.0	48.5	83.5	-35.0
24855.710	36.8	36.3	0.0	40.4	7.4	0.0	V		0.0	48.3	83.5	-35.2
25644.790	36.0	35.8	0.0	40.5	7.6	0.0	H		0.0	48.3	83.5	-35.2
24805.770	36.8	36.3	0.0	40.4	7.4	0.0	H		0.0	48.3	83.5	-35.2
21048.080	37.5	36.4	0.0	40.3	6.8	0.0	H		0.0	48.2	83.5	-35.3
24705.890	36.8	36.3	0.0	40.4	7.3	0.0	H		0.0	48.2	83.5	-35.3
25395.080	36.1	36.0	0.0	40.5	7.6	0.0	V		0.0	48.2	83.5	-35.3
26109.240	35.4	35.5	0.0	40.5	7.7	0.0	V		0.0	48.1	83.5	-35.4
26154.190	35.3	35.5	0.0	40.5	7.7	0.0	V		0.0	48.0	83.5	-35.5
24640.960	36.6	36.3	0.0	40.4	7.3	0.0	H		0.0	48.0	83.5	-35.5
25839.560	35.4	35.6	0.0	40.5	7.7	0.0	H		0.0	47.9	83.5	-35.6
25190.320	35.9	36.1	0.0	40.5	7.5	0.0	H		0.0	47.7	83.5	-35.8
26154.190	34.9	35.5	0.0	40.5	7.7	0.0	H		0.0	47.6	83.5	-35.9
25435.030	35.5	36.0	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
24246.430	36.4	36.4	0.0	40.4	7.0	0.0	H		0.0	47.5	83.5	-36.0
23821.920	35.9	36.3	0.0	40.4	6.8	0.0	V		0.0	46.8	83.5	-36.7
21709.400	35.6	36.1	0.0	40.3	6.9	0.0	V		0.0	46.7	83.5	-36.8
23057.820	36.0	36.1	0.0	40.4	6.4	0.0	H		0.0	46.7	83.5	-36.8
23657.120	35.8	36.3	0.0	40.4	6.7	0.0	H		0.0	46.6	83.5	-36.9
21544.600	35.4	36.2	0.0	40.3	6.9	0.0	H		0.0	46.4	83.5	-37.1
23732.030	35.5	36.3	0.0	40.4	6.8	0.0	H		0.0	46.3	83.5	-37.2

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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

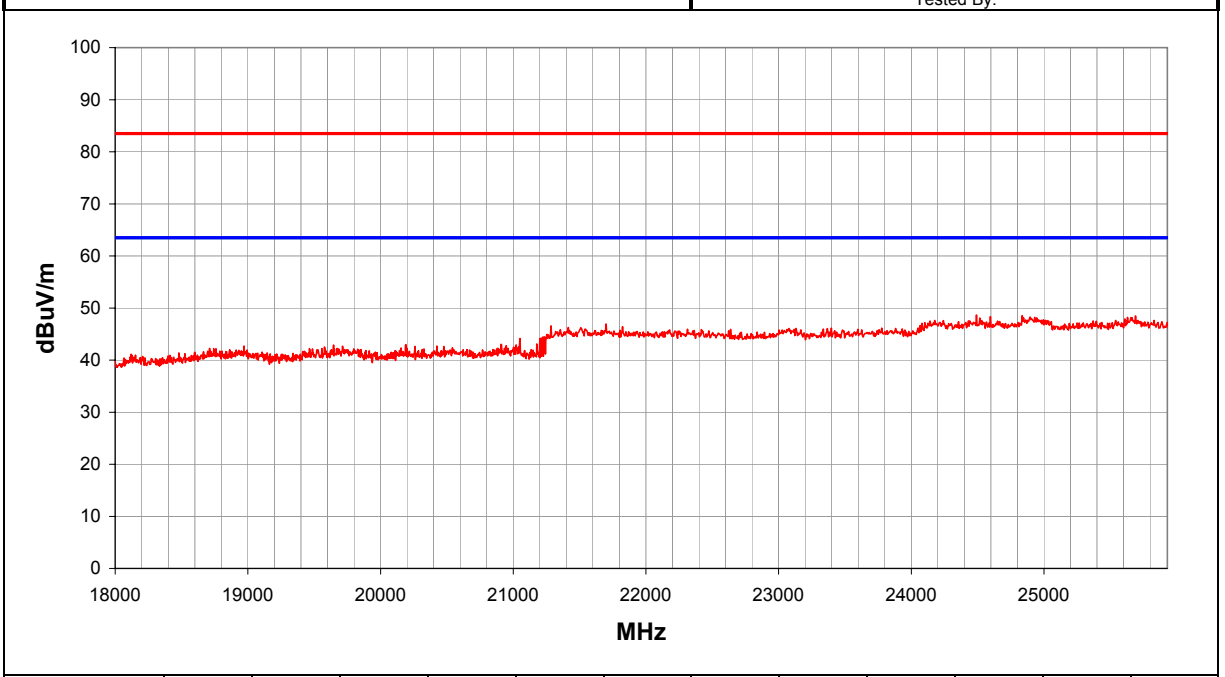
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	67

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
24491.140	37.4	36.4	0.0	40.4	7.2	0.0	V		0.0	48.7	83.5	-34.8
24835.730	37.0	36.3	0.0	40.4	7.4	0.0	H		0.0	48.5	83.5	-35.0
25689.730	36.1	35.7	0.0	40.5	7.6	0.0	V		0.0	48.5	83.5	-35.0
24596.020	37.0	36.3	0.0	40.4	7.3	0.0	V		0.0	48.3	83.5	-35.2
24895.660	36.7	36.3	0.0	40.4	7.4	0.0	V		0.0	48.3	83.5	-35.2
25629.800	35.9	35.8	0.0	40.5	7.6	0.0	H		0.0	48.2	83.5	-35.3
24516.110	36.6	36.3	0.0	40.4	7.2	0.0	H		0.0	47.9	83.5	-35.6
24176.510	36.6	36.4	0.0	40.4	7.0	0.0	H		0.0	47.6	83.5	-35.9
25395.080	35.4	36.0	0.0	40.5	7.6	0.0	H		0.0	47.5	83.5	-36.0
26089.260	34.6	35.5	0.0	40.5	7.7	0.0	H		0.0	47.3	83.5	-36.2
21699.410	35.8	36.1	0.0	40.3	6.9	0.0	V		0.0	46.9	83.5	-36.6
21284.900	35.7	36.3	0.0	40.3	6.9	0.0	V		0.0	46.6	83.5	-36.9
21824.270	35.2	36.1	0.0	40.3	7.0	0.0	H		0.0	46.4	83.5	-37.1
21414.750	35.3	36.2	0.0	40.3	6.9	0.0	H		0.0	46.3	83.5	-37.2
21509.640	35.2	36.2	0.0	40.3	6.9	0.0	H		0.0	46.2	83.5	-37.3
23397.420	35.4	36.2	0.0	40.4	6.6	0.0	H		0.0	46.2	83.5	-37.3
23132.730	35.4	36.1	0.0	40.4	6.5	0.0	H		0.0	46.1	83.5	-37.4
23077.800	35.4	36.1	0.0	40.4	6.4	0.0	V		0.0	46.1	83.5	-37.4
22638.310	35.0	36.1	0.0	40.4	6.6	0.0	H		0.0	45.9	83.5	-37.6
21234.960	33.6	36.3	0.0	40.3	6.8	0.0	H		0.0	44.4	83.5	-39.1
21224.970	33.6	36.3	0.0	40.3	6.8	0.0	H		0.0	44.4	83.5	-39.1

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

EUT: MPC13A-20	Work Order: INMC0023
Serial Number: none	Date: 08/07/02
Customer: Intermec Corporation	Temperature: 75
Attendees: none	Humidity: 45%
Cust. Ref. No.:	Barometric Pressure: 30.1
Tested by: Greg Kiemel	Power: DC from E-net
	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

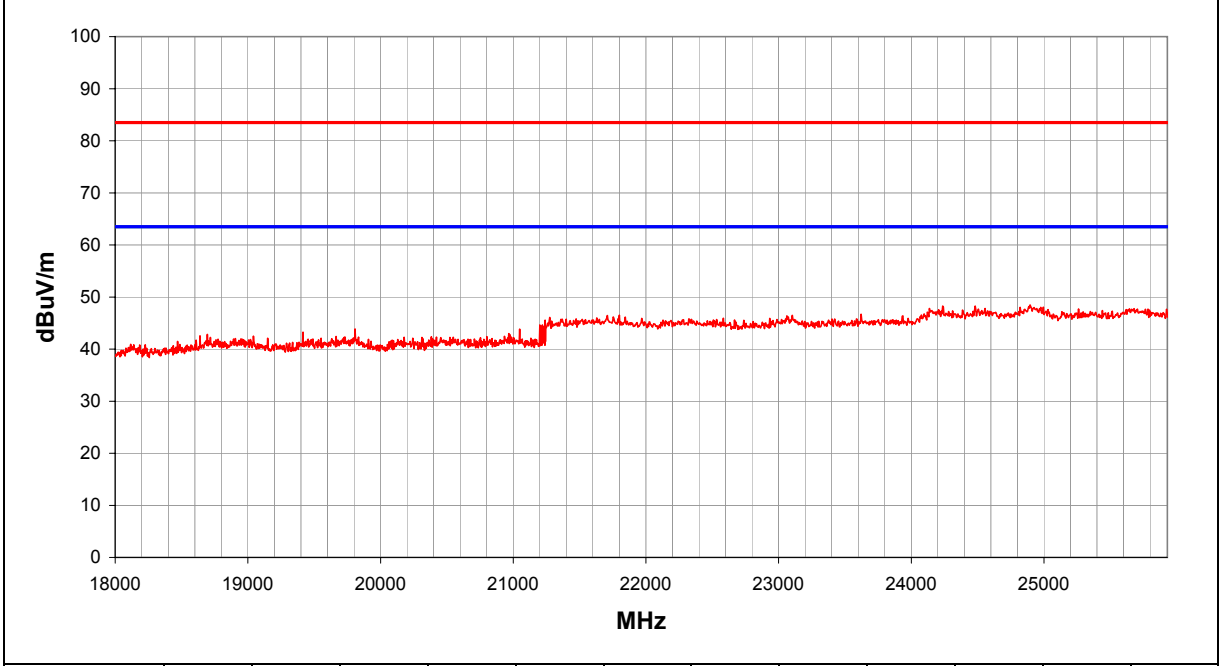
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	68

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
24895.660	36.9	36.3	0.0	40.4	7.4	0.0	V		0.0	48.5	83.5	-35.0
24236.440	37.2	36.4	0.0	40.4	7.0	0.0	V		0.0	48.3	83.5	-35.2
24481.150	37.0	36.4	0.0	40.4	7.2	0.0	V		0.0	48.3	83.5	-35.2
24885.680	36.6	36.3	0.0	40.4	7.4	0.0	H		0.0	48.2	83.5	-35.3
24241.430	37.0	36.4	0.0	40.4	7.0	0.0	H		0.0	48.1	83.5	-35.4
25679.740	35.4	35.8	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
25260.240	35.8	36.1	0.0	40.5	7.6	0.0	H		0.0	47.7	83.5	-35.8
25704.710	35.3	35.7	0.0	40.5	7.6	0.0	H		0.0	47.7	83.5	-35.8
26139.210	34.9	35.5	0.0	40.5	7.7	0.0	H		0.0	47.6	83.5	-35.9
23622.160	35.9	36.3	0.0	40.4	6.7	0.0	V		0.0	46.7	83.5	-36.8
21799.300	35.3	36.1	0.0	40.3	7.0	0.0	H		0.0	46.5	83.5	-37.0
23102.770	35.8	36.1	0.0	40.4	6.5	0.0	V		0.0	46.5	83.5	-37.0
21709.400	35.3	36.1	0.0	40.3	6.9	0.0	V		0.0	46.4	83.5	-37.1
23936.790	35.5	36.4	0.0	40.4	6.9	0.0	V		0.0	46.4	83.5	-37.1
21754.350	35.0	36.1	0.0	40.3	7.0	0.0	H		0.0	46.2	83.5	-37.3
21844.240	34.9	36.1	0.0	40.3	7.0	0.0	H		0.0	46.1	83.5	-37.4
21274.910	35.2	36.3	0.0	40.3	6.9	0.0	H		0.0	46.1	83.5	-37.4
22583.380	35.0	36.1	0.0	40.4	6.6	0.0	H		0.0	45.9	83.5	-37.6
22932.970	35.2	36.1	0.0	40.4	6.4	0.0	H		0.0	45.9	83.5	-37.6
22328.680	34.6	36.0	0.0	40.3	6.8	0.0	V		0.0	45.7	83.5	-37.8
21239.950	34.7	36.3	0.0	40.3	6.8	0.0	H		0.0	45.6	83.5	-37.9

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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

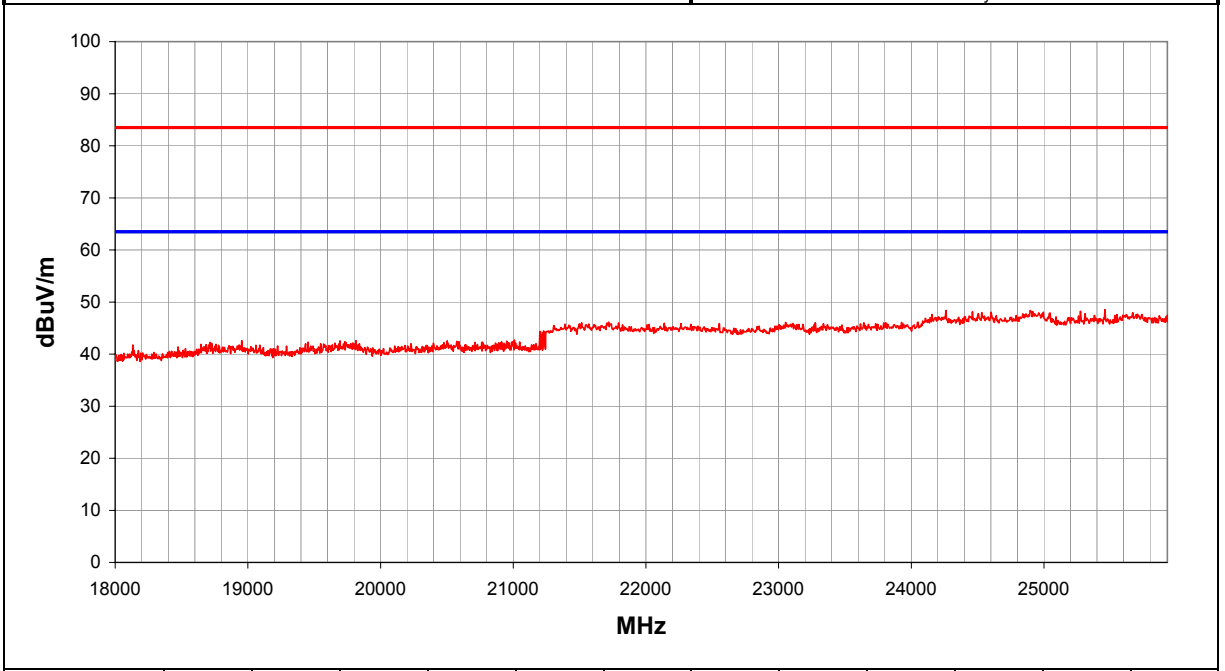
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	69

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
25460.000	36.4	35.9	0.0	40.5	7.6	0.0	H		0.0	48.5	83.5	-35.0
24261.410	37.3	36.4	0.0	40.4	7.1	0.0	H		0.0	48.4	83.5	-35.1
24895.660	36.8	36.3	0.0	40.4	7.4	0.0	H		0.0	48.4	83.5	-35.1
25275.220	36.3	36.1	0.0	40.5	7.6	0.0	V		0.0	48.2	83.5	-35.3
24915.640	36.6	36.3	0.0	40.4	7.4	0.0	V		0.0	48.2	83.5	-35.3
24461.170	36.9	36.4	0.0	40.4	7.2	0.0	H		0.0	48.1	83.5	-35.4
24601.010	36.7	36.3	0.0	40.4	7.3	0.0	H		0.0	48.1	83.5	-35.4
25669.760	35.6	35.8	0.0	40.5	7.6	0.0	V		0.0	48.0	83.5	-35.5
26044.320	35.1	35.5	0.0	40.5	7.7	0.0	V		0.0	47.8	83.5	-35.7
25310.180	35.8	36.1	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
25549.900	35.4	35.9	0.0	40.5	7.6	0.0	H		0.0	47.6	83.5	-35.9
24156.530	36.6	36.4	0.0	40.4	7.0	0.0	V		0.0	47.6	83.5	-35.9
26029.330	34.8	35.5	0.0	40.5	7.7	0.0	H		0.0	47.5	83.5	-36.0
25380.100	35.4	36.0	0.0	40.5	7.6	0.0	H		0.0	47.4	83.5	-36.1
21719.390	35.0	36.1	0.0	40.3	6.9	0.0	V		0.0	46.2	83.5	-37.3
23052.830	35.4	36.1	0.0	40.4	6.4	0.0	H		0.0	46.1	83.5	-37.4
23277.560	35.3	36.2	0.0	40.4	6.5	0.0	V		0.0	46.0	83.5	-37.5
23642.130	35.2	36.3	0.0	40.4	6.7	0.0	V		0.0	46.0	83.5	-37.5
21794.300	34.8	36.1	0.0	40.3	7.0	0.0	H		0.0	46.0	83.5	-37.5
22138.900	34.7	36.0	0.0	40.3	6.9	0.0	H		0.0	45.9	83.5	-37.6
22553.410	34.9	36.1	0.0	40.4	6.7	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: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

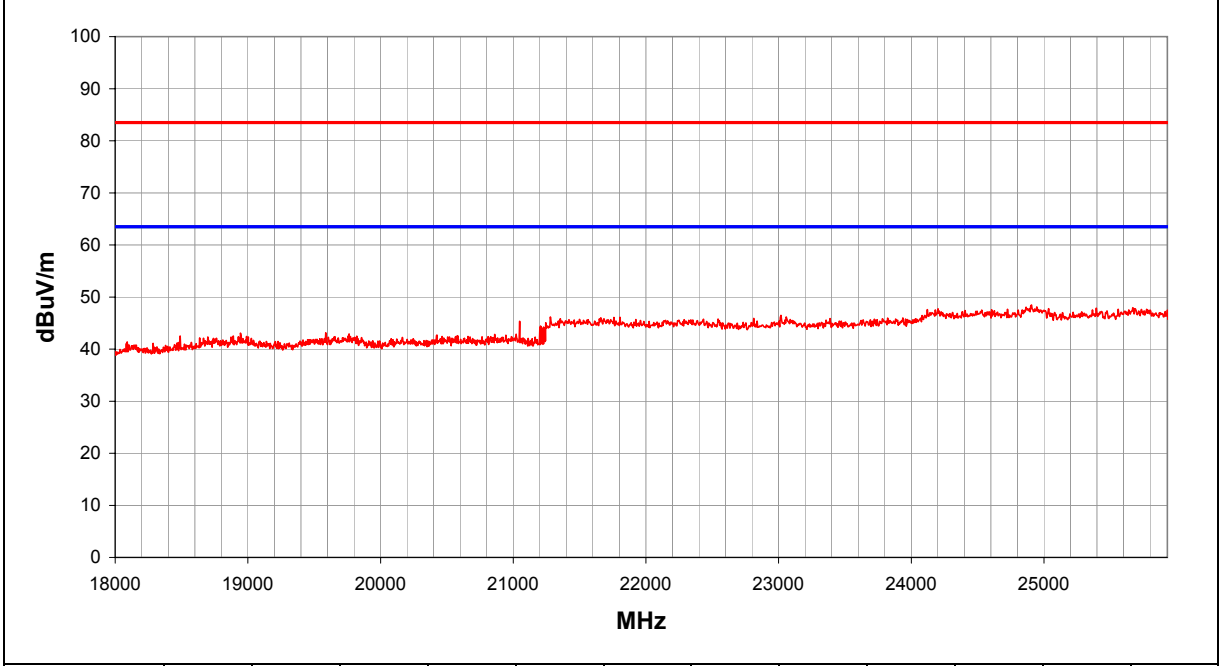
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	70

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
24905.650	36.9	36.3	0.0	40.4	7.4	0.0	H		0.0	48.5	83.5	-35.0
24900.660	36.7	36.3	0.0	40.4	7.4	0.0	V		0.0	48.3	83.5	-35.2
25669.760	35.6	35.8	0.0	40.5	7.6	0.0	H		0.0	48.0	83.5	-35.5
25395.080	35.8	36.0	0.0	40.5	7.6	0.0	H		0.0	47.9	83.5	-35.6
25684.740	35.4	35.8	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
24201.480	36.7	36.4	0.0	40.4	7.0	0.0	V		0.0	47.8	83.5	-35.7
24121.570	36.6	36.4	0.0	40.4	7.0	0.0	H		0.0	47.6	83.5	-35.9
24606.000	36.2	36.3	0.0	40.4	7.3	0.0	V		0.0	47.6	83.5	-35.9
25365.110	35.5	36.0	0.0	40.5	7.6	0.0	V		0.0	47.5	83.5	-36.0
25929.450	34.8	35.6	0.0	40.5	7.7	0.0	H		0.0	47.4	83.5	-36.1
23017.870	35.8	36.1	0.0	40.4	6.4	0.0	H		0.0	46.5	83.5	-37.0
21279.910	35.3	36.3	0.0	40.3	6.9	0.0	H		0.0	46.2	83.5	-37.3
21804.290	34.9	36.1	0.0	40.3	7.0	0.0	H		0.0	46.1	83.5	-37.4
21759.340	34.9	36.1	0.0	40.3	7.0	0.0	V		0.0	46.1	83.5	-37.4
22813.110	35.1	36.1	0.0	40.4	6.5	0.0	V		0.0	45.9	83.5	-37.6
23062.810	35.1	36.1	0.0	40.4	6.4	0.0	V		0.0	45.8	83.5	-37.7
21048.080	34.6	36.4	0.0	40.3	6.8	0.0	H		0.0	45.3	83.5	-38.2
21204.990	33.6	36.3	0.0	40.3	6.8	0.0	V		0.0	44.4	83.5	-39.1
21209.990	33.5	36.3	0.0	40.3	6.8	0.0	V		0.0	44.3	83.5	-39.2
21229.960	33.4	36.3	0.0	40.3	6.8	0.0	H		0.0	44.2	83.5	-39.3
21234.960	33.2	36.3	0.0	40.3	6.8	0.0	H		0.0	44.0	83.5	-39.5

**EMC RADIATED EMISSIONS DATA SHEET**

REV d#2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

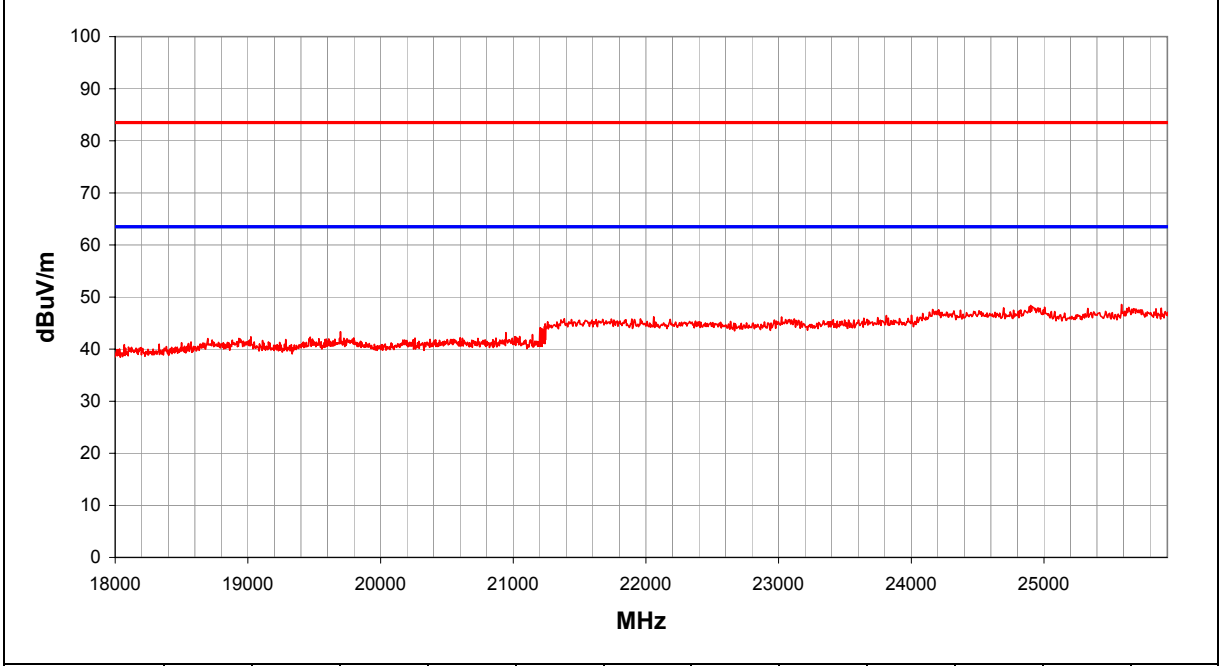
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	71

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
25584.860	36.3	35.8	0.0	40.5	7.6	0.0	H		0.0	48.6	83.5	-34.9
24900.660	36.8	36.3	0.0	40.4	7.4	0.0	H		0.0	48.4	83.5	-35.1
24890.670	36.6	36.3	0.0	40.4	7.4	0.0	V		0.0	48.2	83.5	-35.3
26144.200	35.2	35.5	0.0	40.5	7.7	0.0	V		0.0	47.9	83.5	-35.6
24695.900	36.5	36.3	0.0	40.4	7.3	0.0	H		0.0	47.9	83.5	-35.6
25884.500	35.3	35.6	0.0	40.5	7.7	0.0	V		0.0	47.9	83.5	-35.6
25330.150	35.8	36.0	0.0	40.5	7.6	0.0	V		0.0	47.8	83.5	-35.7
25844.550	35.2	35.6	0.0	40.5	7.7	0.0	H		0.0	47.7	83.5	-35.8
25684.740	35.3	35.8	0.0	40.5	7.6	0.0	V		0.0	47.7	83.5	-35.8
25969.400	35.0	35.5	0.0	40.5	7.7	0.0	H		0.0	47.7	83.5	-35.8
24161.530	36.6	36.4	0.0	40.4	7.0	0.0	H		0.0	47.6	83.5	-35.9
24371.280	36.3	36.4	0.0	40.4	7.1	0.0	V		0.0	47.5	83.5	-36.0
24001.710	35.6	36.4	0.0	40.4	6.9	0.0	H		0.0	46.5	83.5	-37.0
23811.940	35.6	36.3	0.0	40.4	6.8	0.0	H		0.0	46.5	83.5	-37.0
22058.990	34.9	36.0	0.0	40.3	7.0	0.0	V		0.0	46.2	83.5	-37.3
23022.860	35.5	36.1	0.0	40.4	6.4	0.0	H		0.0	46.2	83.5	-37.3
21384.780	34.9	36.2	0.0	40.3	6.9	0.0	H		0.0	45.8	83.5	-37.7
23117.750	35.1	36.1	0.0	40.4	6.5	0.0	V		0.0	45.8	83.5	-37.7
22183.850	34.5	36.0	0.0	40.3	6.9	0.0	H		0.0	45.7	83.5	-37.8
21239.950	34.0	36.3	0.0	40.3	6.8	0.0	V		0.0	44.9	83.5	-38.6
21239.950	33.5	36.3	0.0	40.3	6.8	0.0	H		0.0	44.4	83.5	-39.1

**EMC RADIATED EMISSIONS DATA SHEET**

REV  
df2.03  
07/10/2002

EUT: MPC13A-20		Work Order: INMC0023
Serial Number: none	Date: 08/07/02	
Customer: Intermec Corporation	Temperature: 75	
Attendees: none	Humidity: 45%	
Cust. Ref. No.:	Barometric Pressure: 30.1	Job Site: EV01
Tested by: Greg Kiemel	Power: DC from E-net	

<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, omni antenna

**EUT OPERATING MODES**

Transmitting radio b

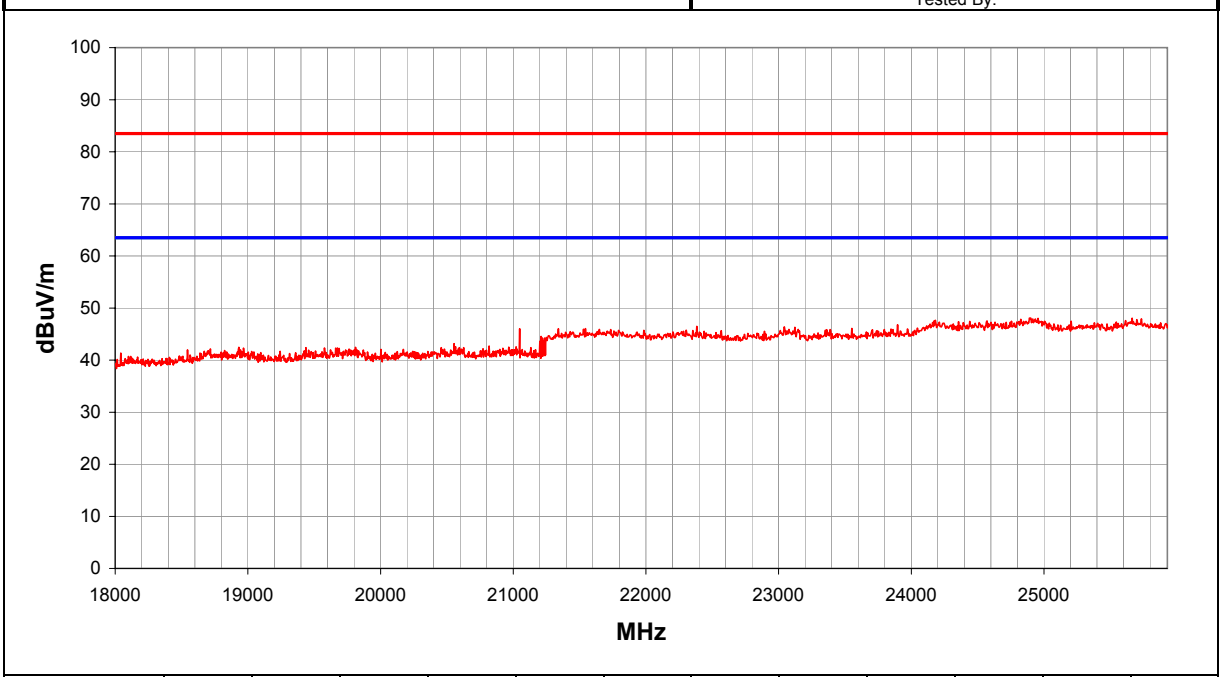
**DEVIATIONS FROM TEST STANDARD**

No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	1	72

Other

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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)
24900.660	36.5	36.3	0.0	40.4	7.4	0.0	V		0.0	48.1	83.5	-35.4
25664.760	35.7	35.8	0.0	40.5	7.6	0.0	V		0.0	48.0	83.5	-35.5
24955.590	36.4	36.3	0.0	40.4	7.5	0.0	H		0.0	48.0	83.5	-35.5
25734.680	35.5	35.7	0.0	40.5	7.6	0.0	H		0.0	47.9	83.5	-35.6
26174.160	35.1	35.5	0.0	40.5	7.8	0.0	V		0.0	47.9	83.5	-35.6
24181.500	36.6	36.4	0.0	40.4	7.0	0.0	V		0.0	47.6	83.5	-35.9
26039.320	34.9	35.5	0.0	40.5	7.7	0.0	H		0.0	47.6	83.5	-35.9
24171.510	36.5	36.4	0.0	40.4	7.0	0.0	H		0.0	47.5	83.5	-36.0
24571.040	36.2	36.3	0.0	40.4	7.2	0.0	H		0.0	47.5	83.5	-36.0
25205.300	35.6	36.1	0.0	40.5	7.5	0.0	V		0.0	47.5	83.5	-36.0
24441.200	36.2	36.4	0.0	40.4	7.2	0.0	V		0.0	47.4	83.5	-36.1
23896.840	35.9	36.4	0.0	40.4	6.8	0.0	V		0.0	46.8	83.5	-36.7
22383.610	35.4	36.0	0.0	40.3	6.8	0.0	H		0.0	46.5	83.5	-37.0
23042.840	35.7	36.1	0.0	40.4	6.4	0.0	V		0.0	46.4	83.5	-37.1
23552.240	35.3	36.3	0.0	40.4	6.7	0.0	H		0.0	46.1	83.5	-37.4
21544.600	35.0	36.2	0.0	40.3	6.9	0.0	H		0.0	46.0	83.5	-37.5
21048.080	35.3	36.4	0.0	40.3	6.8	0.0	H		0.0	46.0	83.5	-37.5
21529.610	34.9	36.2	0.0	40.3	6.9	0.0	V		0.0	45.9	83.5	-37.6
23147.710	35.2	36.1	0.0	40.4	6.5	0.0	H		0.0	45.9	83.5	-37.6
23387.430	35.1	36.2	0.0	40.4	6.6	0.0	H		0.0	45.9	83.5	-37.6
22353.650	34.6	36.0	0.0	40.3	6.8	0.0	V		0.0	45.7	83.5	-37.8

NORTHWEST  
**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>	
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, dipole antenna

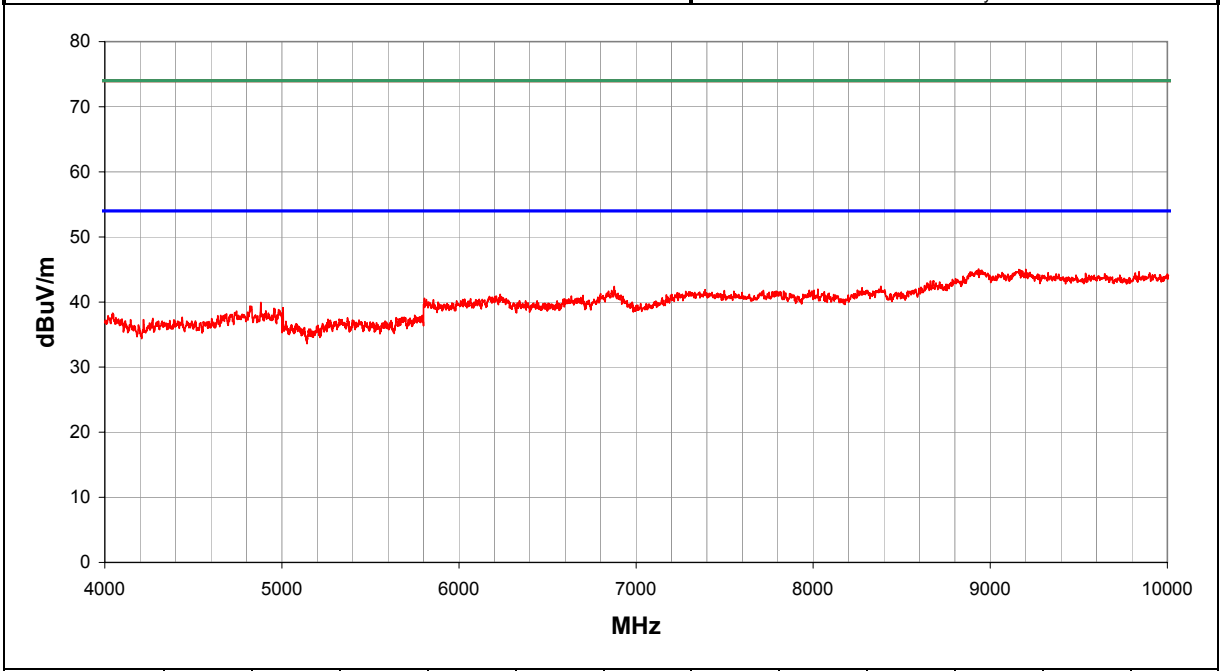
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	73

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
8934.813	29.6	31.0	0.0	40.1	6.4	0.0	H		0.0	45.1	74.0	-28.9
9200.531	29.6	30.9	0.0	39.8	6.5	0.0	V		0.0	45.0	74.0	-29.0
9840.672	29.9	30.9	0.0	38.9	6.7	0.0	V		0.0	44.7	74.0	-29.3
8382.945	30.2	32.0	0.0	38.0	6.2	0.0	V		0.0	42.4	74.0	-31.6
6876.865	32.7	33.0	0.0	37.0	5.8	0.0	H		0.0	42.4	74.0	-31.6
8026.641	30.8	32.7	0.0	37.7	6.1	0.0	H		0.0	42.0	74.0	-32.0
8384.455	29.7	32.0	0.0	38.0	6.2	0.0	H		0.0	41.9	74.0	-32.1
7389.520	31.1	32.9	0.0	37.8	5.9	0.0	V		0.0	41.9	74.0	-32.1
6862.346	32.1	33.0	0.0	37.0	5.7	0.0	V		0.0	41.8	74.0	-32.2
7498.223	30.7	32.9	0.0	38.0	5.9	0.0	H		0.0	41.7	74.0	-32.3
6231.956	31.7	32.6	0.0	36.6	5.5	0.0	H		0.0	41.2	74.0	-32.8
6700.211	31.6	32.9	0.0	36.7	5.7	0.0	H		0.0	41.0	74.0	-33.0
6210.177	31.4	32.6	0.0	36.6	5.5	0.0	V		0.0	40.9	74.0	-33.1
6673.592	31.2	32.9	0.0	36.6	5.7	0.0	V		0.0	40.6	74.0	-33.4
5804.840	31.1	32.4	0.0	36.6	5.2	0.0	V		0.0	40.6	74.0	-33.4
4881.549	32.5	32.0	0.0	35.0	4.4	0.0	H		0.0	39.9	74.0	-34.1
4819.953	32.2	32.0	0.0	34.8	4.4	0.0	H		0.0	39.4	74.0	-34.6
5006.760	31.2	31.9	0.0	35.3	4.5	0.0	H		0.0	39.1	74.0	-34.9
5005.750	31.2	31.9	0.0	35.3	4.5	0.0	H		0.0	39.1	74.0	-34.9
4956.271	31.3	31.9	0.0	35.2	4.5	0.0	V		0.0	39.0	74.0	-35.0
4960.311	31.2	31.9	0.0	35.2	4.5	0.0	H		0.0	38.9	74.0	-35.1



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**  
 mid channel, dipole antenna

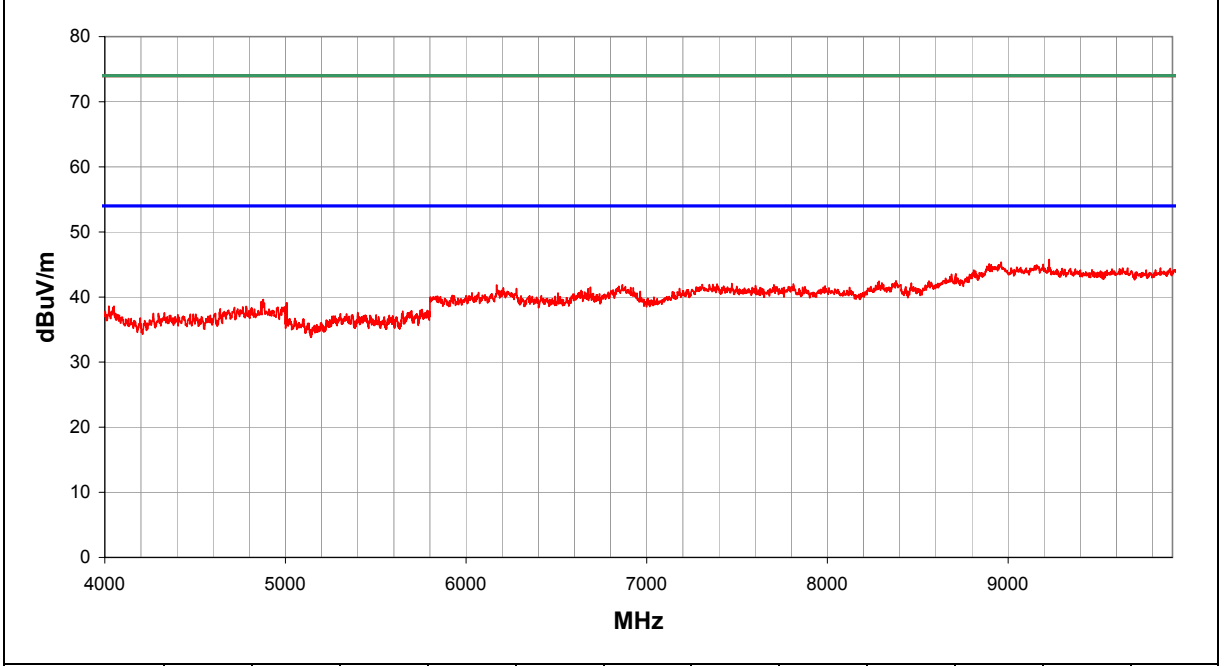
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	74

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
9226.197	30.4	30.9	0.0	39.8	6.5	0.0	V		0.0	45.8	74.0	-28.2
8961.988	29.7	31.0	0.0	40.2	6.4	0.0	V		0.0	45.3	74.0	-28.7
9194.492	29.6	30.9	0.0	39.9	6.5	0.0	H		0.0	45.0	74.0	-29.0
9958.434	29.9	30.9	0.0	38.9	6.8	0.0	H		0.0	44.7	74.0	-29.3
8379.926	30.3	32.0	0.0	38.0	6.2	0.0	H		0.0	42.5	74.0	-31.5
8280.281	30.3	32.2	0.0	37.9	6.2	0.0	V		0.0	42.2	74.0	-31.8
8464.473	29.7	31.9	0.0	38.1	6.2	0.0	V		0.0	42.1	74.0	-31.9
7471.047	31.1	32.9	0.0	38.0	5.9	0.0	H		0.0	42.1	74.0	-31.9
7389.520	31.2	32.9	0.0	37.8	5.9	0.0	V		0.0	42.0	74.0	-32.0
7812.254	30.9	32.8	0.0	37.8	6.0	0.0	V		0.0	42.0	74.0	-32.0
6864.766	32.2	33.0	0.0	37.0	5.7	0.0	H		0.0	41.9	74.0	-32.1
6169.038	32.3	32.6	0.0	36.7	5.5	0.0	V		0.0	41.9	74.0	-32.1
6688.111	32.1	32.9	0.0	36.6	5.7	0.0	V		0.0	41.5	74.0	-32.5
6910.744	31.7	33.0	0.0	37.0	5.8	0.0	V		0.0	41.5	74.0	-32.5
6279.145	31.9	32.7	0.0	36.6	5.5	0.0	H		0.0	41.3	74.0	-32.7
6676.012	31.9	32.9	0.0	36.6	5.7	0.0	H		0.0	41.3	74.0	-32.7
6509.037	31.5	32.8	0.0	36.3	5.6	0.0	H		0.0	40.6	74.0	-33.4
4877.510	32.2	32.0	0.0	35.0	4.4	0.0	V		0.0	39.6	74.0	-34.4
5006.760	31.2	31.9	0.0	35.3	4.5	0.0	V		0.0	39.1	74.0	-34.9
5005.750	31.2	31.9	0.0	35.3	4.5	0.0	V		0.0	39.1	74.0	-34.9
5002.721	30.7	31.9	0.0	35.3	4.5	0.0	V		0.0	38.6	74.0	-35.4

NORTHWEST  
**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>	
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, dipole antenna

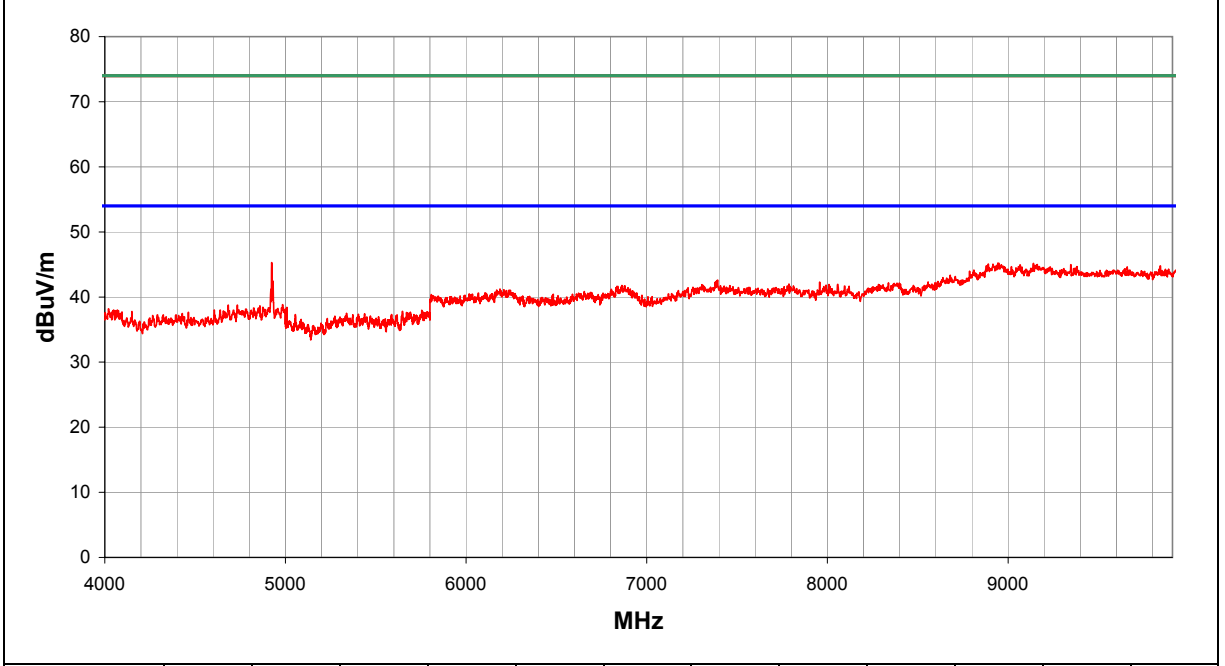
**EUT OPERATING MODES**  
 Transmitting radio b

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Test Distance (m)	Run #
Evaluation	3	75

Other

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



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Chamber (dB)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector (blank equal peaks [PK] from scan)	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4923.959	37.7	31.9	0.0	35.1	4.5	0.0	V		0.0	45.3	74.0	-28.7
8943.871	29.7	31.0	0.0	40.1	6.4	0.0	H		0.0	45.2	74.0	-28.8
8949.910	29.6	31.0	0.0	40.2	6.4	0.0	V		0.0	45.2	74.0	-28.8
9140.141	29.6	30.9	0.0	40.0	6.5	0.0	V		0.0	45.2	74.0	-28.8
9346.979	29.9	30.9	0.0	39.4	6.5	0.0	H		0.0	45.0	74.0	-29.0
9843.691	30.0	30.9	0.0	38.9	6.7	0.0	V		0.0	44.8	74.0	-29.2
9659.500	29.9	30.9	0.0	39.0	6.7	0.0	H		0.0	44.6	74.0	-29.4
7392.539	31.8	32.9	0.0	37.8	5.9	0.0	V		0.0	42.6	74.0	-31.4
4932.037	34.8	31.9	0.0	35.1	4.5	0.0	V		0.0	42.4	74.0	-31.6
7957.191	31.2	32.7	0.0	37.7	6.1	0.0	H		0.0	42.3	74.0	-31.7
8337.652	30.1	32.1	0.0	38.0	6.2	0.0	V		0.0	42.2	74.0	-31.8
7788.098	30.9	32.8	0.0	37.8	6.0	0.0	H		0.0	42.0	74.0	-32.0
8056.836	30.7	32.6	0.0	37.7	6.1	0.0	V		0.0	42.0	74.0	-32.0
7304.973	31.3	33.0	0.0	37.7	5.9	0.0	H		0.0	41.9	74.0	-32.1
6862.346	32.1	33.0	0.0	37.0	5.7	0.0	H		0.0	41.8	74.0	-32.2
6879.285	32.0	33.0	0.0	37.0	5.8	0.0	V		0.0	41.7	74.0	-32.3
6187.188	31.7	32.6	0.0	36.7	5.5	0.0	V		0.0	41.2	74.0	-32.8
4925.979	33.5	31.9	0.0	35.1	4.5	0.0	H		0.0	41.1	74.0	-32.9
6169.038	31.5	32.6	0.0	36.7	5.5	0.0	H		0.0	41.1	74.0	-32.9
6654.232	31.5	32.9	0.0	36.6	5.7	0.0	H		0.0	40.8	74.0	-33.2
5807.260	30.9	32.4	0.0	36.6	5.2	0.0	V		0.0	40.4	74.0	-33.6