

# **Exhibit T: Additional AC Powerline Conducted Emissions**

**FCC ID: HN2MPCI3A-20**

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:22
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

<b>TEST SPECIFICATIONS</b>	
Specification:	CISPR22 Class B
Method:	CISPR 22
Year:	1997
Year:	1997

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

**COMMENTS**  
 Low channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

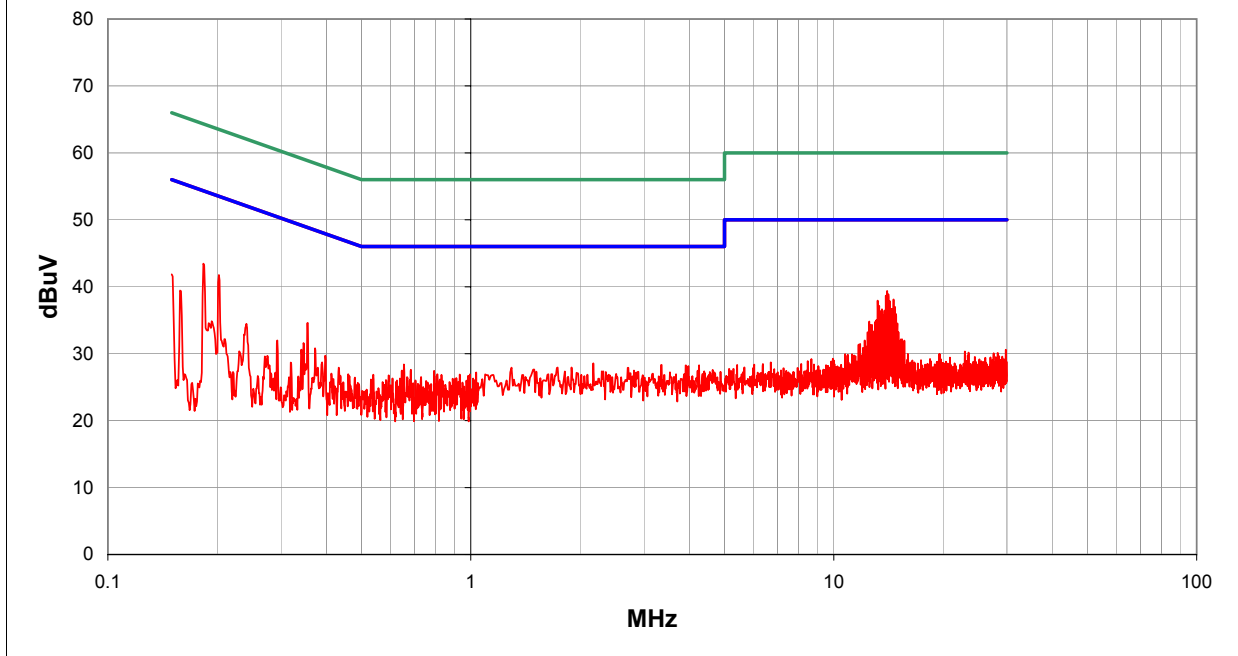
**EUT OPERATING MODES**

**DEVIATIONS FROM TEST STANDARD**  
 No deviations.

<b>RESULTS</b>	Line	Run #
Pass	L1	7

Other

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



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.040	18.3	0.0	1.1	20.0		39.4	50.0	-10.6
0.183	23.3	0.0	0.2	20.0		43.5	54.3	-10.9
14.136	17.8	0.0	1.1	20.0		38.9	50.0	-11.1
13.920	17.6	0.0	1.1	20.0		38.7	50.0	-11.3
0.202	21.6	0.0	0.2	20.0		41.8	53.5	-11.8
14.616	17.0	0.0	1.1	20.0		38.1	50.0	-11.9
13.212	16.9	0.0	1.0	20.0		37.9	50.0	-12.1
14.256	16.8	0.0	1.1	20.0		37.9	50.0	-12.1
13.344	16.1	0.0	1.0	20.0		37.1	50.0	-12.9
14.736	15.9	0.0	1.1	20.0		37.0	50.0	-13.0
14.496	15.6	0.0	1.1	20.0		36.7	50.0	-13.3
14.376	15.6	0.0	1.1	20.0		36.7	50.0	-13.3
13.572	15.6	0.0	1.1	20.0		36.7	50.0	-13.3
13.800	15.4	0.0	1.1	20.0		36.5	50.0	-13.5
13.452	15.3	0.0	1.0	20.0		36.3	50.0	-13.7
14.844	14.8	0.0	1.1	20.0		35.9	50.0	-14.1
0.150	21.7	0.0	0.1	20.0		41.8	56.0	-14.2
0.355	14.4	0.0	0.2	20.0		34.6	48.8	-14.2
13.680	14.7	0.0	1.1	20.0		35.8	50.0	-14.2
13.104	14.0	0.0	1.0	20.0		35.0	50.0	-15.0
12.528	13.8	0.0	1.0	20.0		34.8	50.0	-15.2

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:24
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

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

SAMPLE CALCULATIONS

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

COMMENTS

Low channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

EUT OPERATING MODES

DEVIATIONS FROM TEST STANDARD

No deviations.

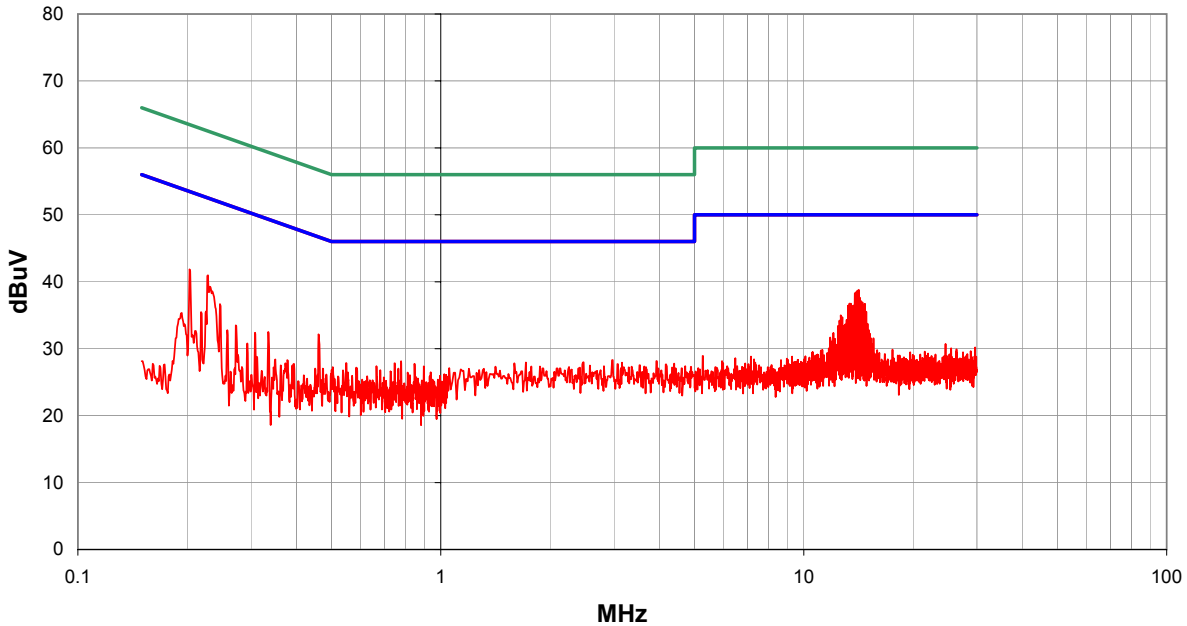
RESULTS

Pass	Line	N	Run #	8
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Other



Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.184	17.7	0.0	1.1	20.0		38.8	50.0	-11.2
14.052	17.6	0.0	1.1	20.0		38.7	50.0	-11.3
13.944	17.4	0.0	1.1	20.0		38.5	50.0	-11.5
0.228	20.8	0.0	0.2	20.0		41.0	52.5	-11.5
0.203	21.7	0.0	0.2	20.0		41.9	53.5	-11.6
13.824	17.2	0.0	1.1	20.0		38.3	50.0	-11.7
14.304	16.5	0.0	1.1	20.0		37.6	50.0	-12.4
14.400	16.0	0.0	1.1	20.0		37.1	50.0	-12.9
14.520	15.8	0.0	1.1	20.0		36.9	50.0	-13.1
13.476	15.7	0.0	1.0	20.0		36.7	50.0	-13.3
13.368	15.7	0.0	1.0	20.0		36.7	50.0	-13.3
14.748	15.6	0.0	1.1	20.0		36.7	50.0	-13.3
14.640	15.4	0.0	1.1	20.0		36.5	50.0	-13.5
13.704	15.4	0.0	1.1	20.0		36.5	50.0	-13.5
13.236	15.4	0.0	1.0	20.0		36.4	50.0	-13.6
13.584	15.3	0.0	1.1	20.0		36.4	50.0	-13.6
14.880	14.4	0.0	1.1	20.0		35.5	50.0	-14.5
0.461	11.9	0.0	0.2	20.0		32.1	46.7	-14.5
12.648	14.0	0.0	1.0	20.0		35.0	50.0	-15.0
0.246	16.5	0.0	0.2	20.0		36.7	51.9	-15.2
12.780	13.7	0.0	1.0	20.0		34.7	50.0	-15.3

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:27
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

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

SAMPLE CALCULATIONS

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

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

COMMENTS

Mid channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

EUT OPERATING MODES

DEVIATIONS FROM TEST STANDARD

No deviations.

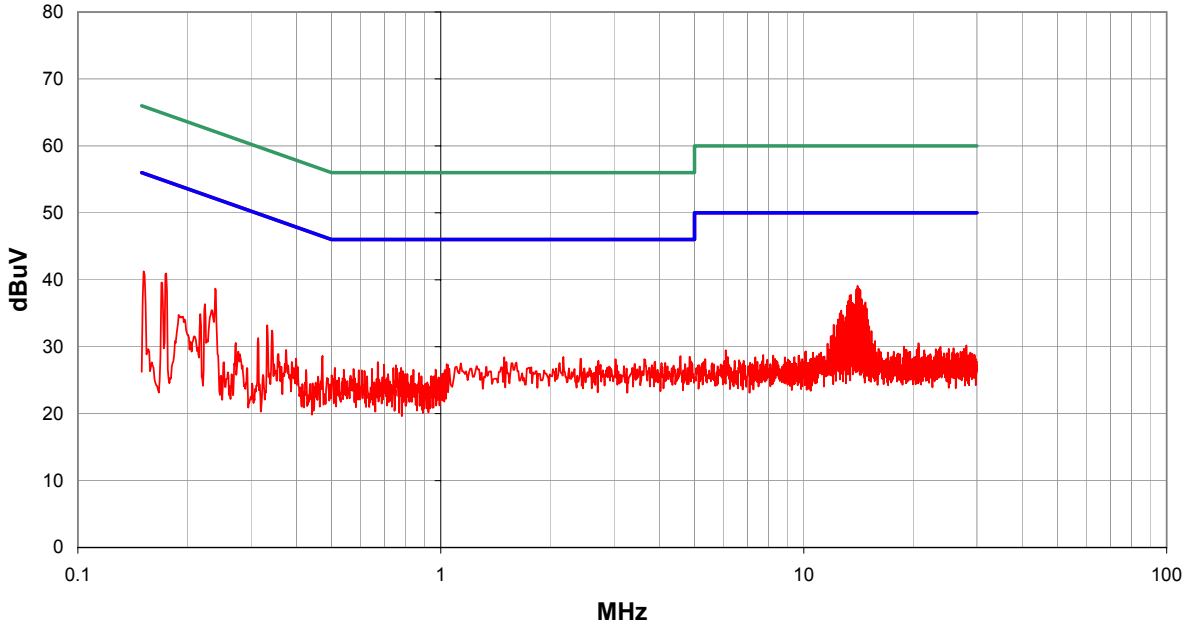
RESULTS

Pass	Line	L1	Run #	9
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Other



Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.076	18.0	0.0	1.1	20.0		39.1	50.0	-10.9
14.196	17.6	0.0	1.1	20.0		38.7	50.0	-11.3
13.968	17.5	0.0	1.1	20.0		38.6	50.0	-11.4
14.316	17.4	0.0	1.1	20.0		38.5	50.0	-11.5
13.500	16.7	0.0	1.0	20.0		37.7	50.0	-12.3
13.380	16.6	0.0	1.0	20.0		37.6	50.0	-12.4
14.448	16.0	0.0	1.1	20.0		37.1	50.0	-12.9
13.260	15.8	0.0	1.0	20.0		36.8	50.0	-13.2
14.784	15.5	0.0	1.1	20.0		36.6	50.0	-13.4
13.620	15.5	0.0	1.1	20.0		36.6	50.0	-13.4
0.239	18.5	0.0	0.2	20.0		38.7	52.1	-13.5
13.728	15.3	0.0	1.1	20.0		36.4	50.0	-13.6
13.848	15.2	0.0	1.1	20.0		36.3	50.0	-13.7
0.175	20.8	0.0	0.2	20.0		41.0	54.7	-13.8
14.664	15.1	0.0	1.1	20.0		36.2	50.0	-13.8
13.152	15.1	0.0	1.0	20.0		36.1	50.0	-13.9
14.544	15.0	0.0	1.1	20.0		36.1	50.0	-13.9
14.904	14.6	0.0	1.1	20.0		35.7	50.0	-14.3
12.684	14.4	0.0	1.0	20.0		35.4	50.0	-14.6
0.152	21.1	0.0	0.1	20.0		41.2	55.9	-14.7
12.576	14.0	0.0	1.0	20.0		35.0	50.0	-15.0

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:28
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

**TEST SPECIFICATIONS**

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

**SAMPLE CALCULATIONS**

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

**COMMENTS**

Mid channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

**EUT OPERATING MODES**

**DEVIATIONS FROM TEST STANDARD**

No deviations.

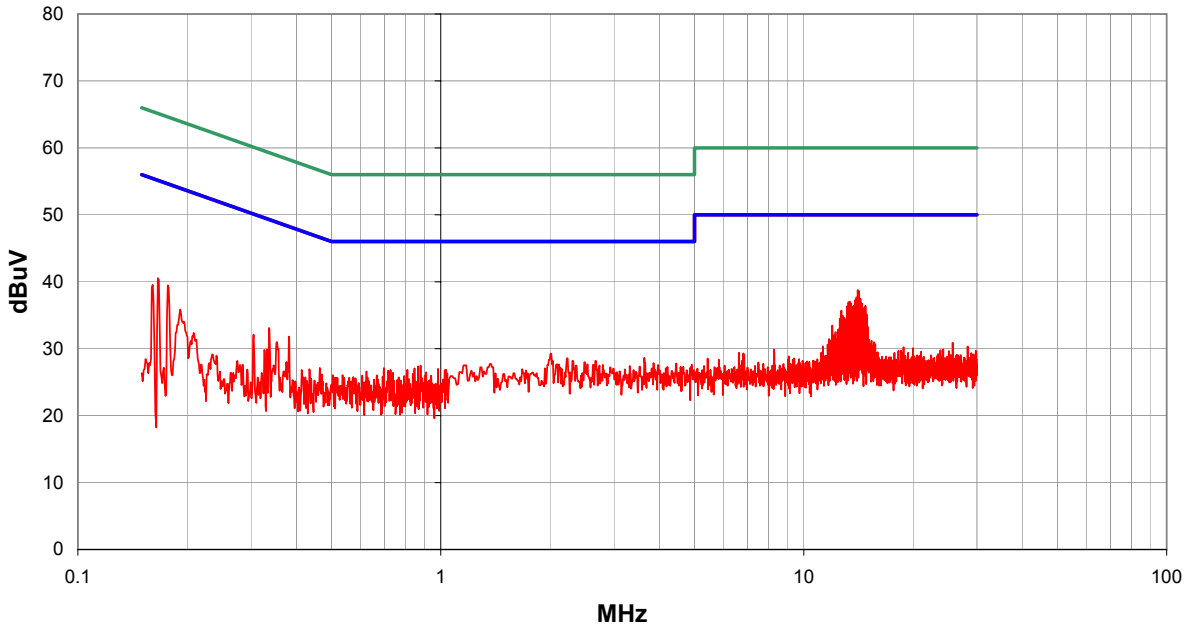
**RESULTS**

Pass	Line	N	Run #	10
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**Other**



Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.088	17.7	0.0	1.1	20.0		38.8	50.0	-11.2
14.208	17.5	0.0	1.1	20.0		38.6	50.0	-11.4
13.968	16.6	0.0	1.1	20.0		37.7	50.0	-12.3
14.328	16.4	0.0	1.1	20.0		37.5	50.0	-12.5
13.872	16.2	0.0	1.1	20.0		37.3	50.0	-12.7
13.392	16.0	0.0	1.0	20.0		37.0	50.0	-13.0
13.272	15.9	0.0	1.0	20.0		36.9	50.0	-13.1
14.448	15.7	0.0	1.1	20.0		36.8	50.0	-13.2
13.512	15.7	0.0	1.0	20.0		36.7	50.0	-13.3
13.752	15.4	0.0	1.1	20.0		36.5	50.0	-13.5
14.784	15.3	0.0	1.1	20.0		36.4	50.0	-13.6
13.164	15.3	0.0	1.0	20.0		36.3	50.0	-13.7
13.620	15.2	0.0	1.1	20.0		36.3	50.0	-13.7
14.688	15.0	0.0	1.1	20.0		36.1	50.0	-13.9
14.556	14.9	0.0	1.1	20.0		36.0	50.0	-14.0
12.696	14.7	0.0	1.0	20.0		35.7	50.0	-14.3
0.166	20.4	0.0	0.1	20.0		40.5	55.1	-14.6
14.904	14.0	0.0	1.1	20.0		35.1	50.0	-14.9
12.816	13.9	0.0	1.0	20.0		34.9	50.0	-15.1
0.177	19.3	0.0	0.2	20.0		39.5	54.6	-15.2
12.936	13.6	0.0	1.0	20.0		34.6	50.0	-15.4

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:30
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

**TEST SPECIFICATIONS**

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

**SAMPLE CALCULATIONS**

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

**COMMENTS**

High channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

**EUT OPERATING MODES**

**DEVIATIONS FROM TEST STANDARD**

No deviations.

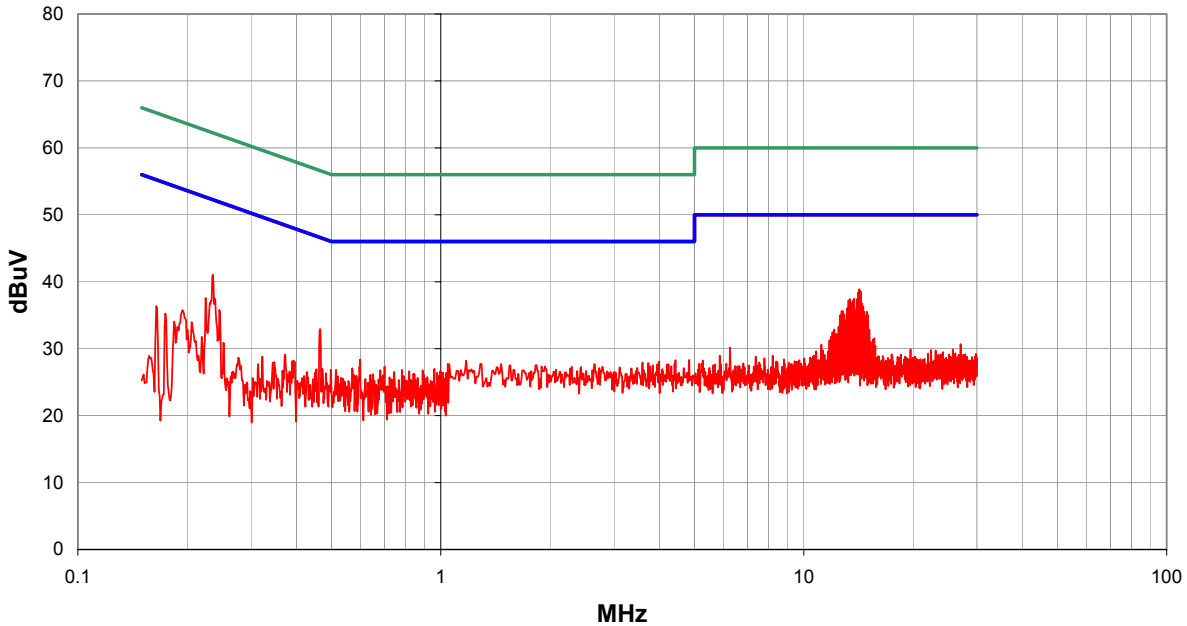
**RESULTS**

Pass	Line	L1	Run #	11
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**Other**



Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.232	17.8	0.0	1.1	20.0		38.9	50.0	-11.1
0.236	20.9	0.0	0.2	20.0		41.1	52.3	-11.2
14.340	17.5	0.0	1.1	20.0		38.6	50.0	-11.4
14.112	17.3	0.0	1.1	20.0		38.4	50.0	-11.6
13.752	16.4	0.0	1.1	20.0		37.5	50.0	-12.5
13.404	16.4	0.0	1.0	20.0		37.4	50.0	-12.6
13.992	16.3	0.0	1.1	20.0		37.4	50.0	-12.6
13.296	16.2	0.0	1.0	20.0		37.2	50.0	-12.8
13.644	16.1	0.0	1.1	20.0		37.2	50.0	-12.8
13.536	15.8	0.0	1.0	20.0		36.8	50.0	-13.2
14.460	15.7	0.0	1.1	20.0		36.8	50.0	-13.2
0.465	12.7	0.0	0.2	20.0		32.9	46.6	-13.7
14.592	15.2	0.0	1.1	20.0		36.3	50.0	-13.7
13.176	15.0	0.0	1.0	20.0		36.0	50.0	-14.0
13.872	14.7	0.0	1.1	20.0		35.8	50.0	-14.2
12.816	14.6	0.0	1.0	20.0		35.6	50.0	-14.4
12.720	14.6	0.0	1.0	20.0		35.6	50.0	-14.4
14.928	14.4	0.0	1.1	20.0		35.5	50.0	-14.5
14.688	14.4	0.0	1.1	20.0		35.5	50.0	-14.5
12.936	14.1	0.0	1.0	20.0		35.1	50.0	-14.9
15.048	13.9	0.0	1.1	20.0		35.0	50.0	-15.0

EUT:	MPCI3A-20	Work Order:	INMC0023
Serial Number:	002-026	Date:	8/19/02 10:31
Customer:	Intermec Corporation	Temperature:	75
Attendees:	None	Humidity:	39%
Cust. Ref. No.:		Barometric Pressure:	30
Tested by:	Rod Peloquin	Power:	120VAC/60Hz
		Job Site:	EV01

**TEST SPECIFICATIONS**

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

**SAMPLE CALCULATIONS**

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

**COMMENTS**

High channel, tested in WA21 Access Point. Radio transmitting at maximum data rate, worst case antenna configuration

**EUT OPERATING MODES**

**DEVIATIONS FROM TEST STANDARD**

No deviations.

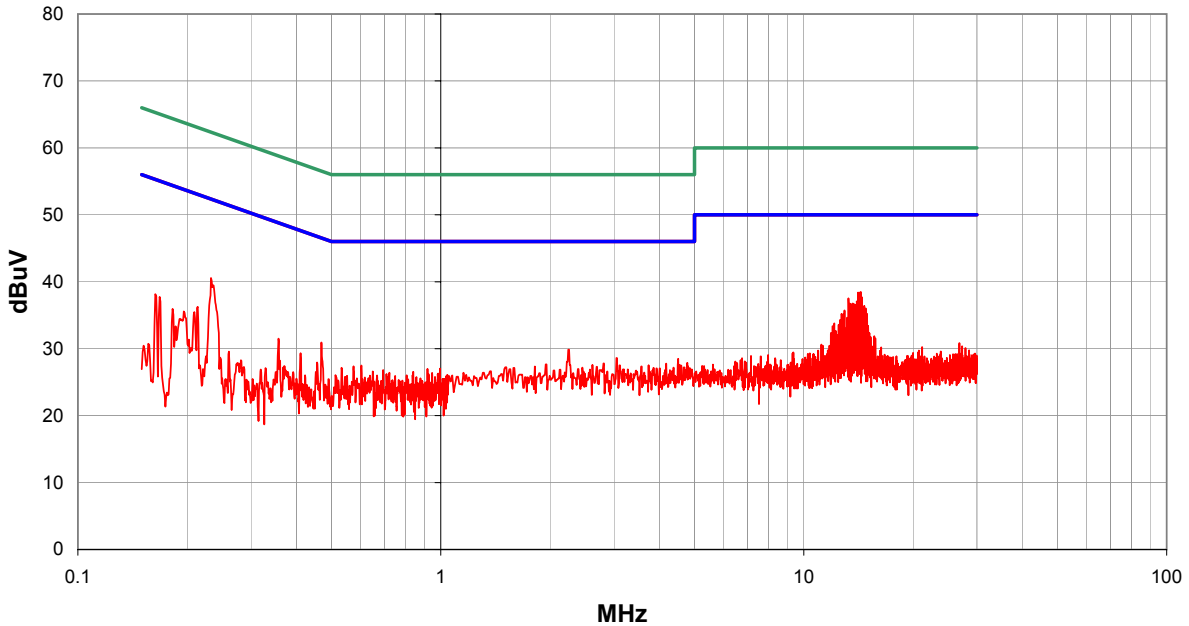
**RESULTS**

Pass	Line	N	Run #	12
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**Other**



Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
14.352	17.4	0.0	1.1	20.0		38.5	50.0	-11.5
14.232	17.3	0.0	1.1	20.0		38.4	50.0	-11.6
14.112	17.3	0.0	1.1	20.0		38.4	50.0	-11.6
0.233	20.4	0.0	0.2	20.0		40.6	52.3	-11.8
14.460	16.6	0.0	1.1	20.0		37.7	50.0	-12.3
13.284	16.5	0.0	1.0	20.0		37.5	50.0	-12.5
13.992	16.0	0.0	1.1	20.0		37.1	50.0	-12.9
13.644	15.7	0.0	1.1	20.0		36.8	50.0	-13.2
13.404	15.7	0.0	1.0	20.0		36.7	50.0	-13.3
13.764	15.6	0.0	1.1	20.0		36.7	50.0	-13.3
13.524	15.6	0.0	1.0	20.0		36.6	50.0	-13.4
13.872	15.5	0.0	1.1	20.0		36.6	50.0	-13.4
14.688	15.3	0.0	1.1	20.0		36.4	50.0	-13.6
14.820	14.9	0.0	1.1	20.0		36.0	50.0	-14.0
14.592	14.8	0.0	1.1	20.0		35.9	50.0	-14.1
12.960	14.7	0.0	1.0	20.0		35.7	50.0	-14.3
14.928	14.1	0.0	1.1	20.0		35.2	50.0	-14.8
12.708	14.2	0.0	1.0	20.0		35.2	50.0	-14.8
12.840	14.1	0.0	1.0	20.0		35.1	50.0	-14.9
13.176	13.6	0.0	1.0	20.0		34.6	50.0	-15.4
0.469	10.7	0.0	0.2	20.0		30.9	46.5	-15.6