

Justification

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

Channels in Specified Band Investigated:

High
Mid
Low

Data Rates Investigated:

1 Mbit 802.11b
5.5 Mbit 802.11b
11 Mbit 802.11b
6 Mbit 802.11g
36 Mbit 802.11g
54 Mbit 802.11g

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio 802MIAG-CV60	PRISM	3886	Unknown
Host PC	Intermec Technologies Corporation	CV60	23100400645
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	AC Mains

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

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

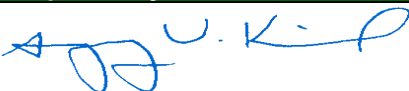
Test Description

Requirement: Per 47 CFR 15.247(d), the peak power spectral density conducted from the antenna port of a direct sequence transmitter must not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

Configuration: The peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

Completed by:


EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number: 000DF01504A8	Date: 09/03/04
Customer: INTERMEC Technologies	Temperature: 72 degrees F
Attendees: None	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992
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SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 1 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

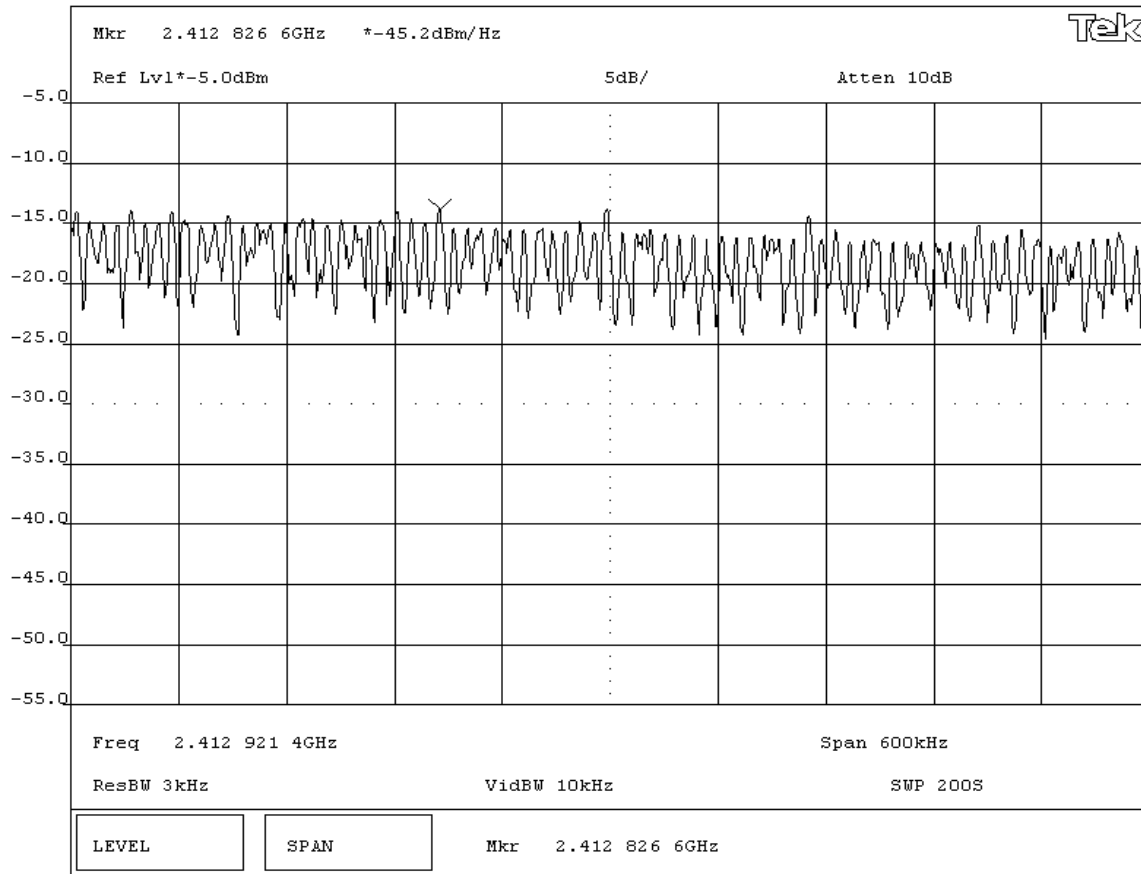
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude Power Spectral Density = -10.4 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(b) 1 Mbps



EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Rod Peloquin	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 1 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

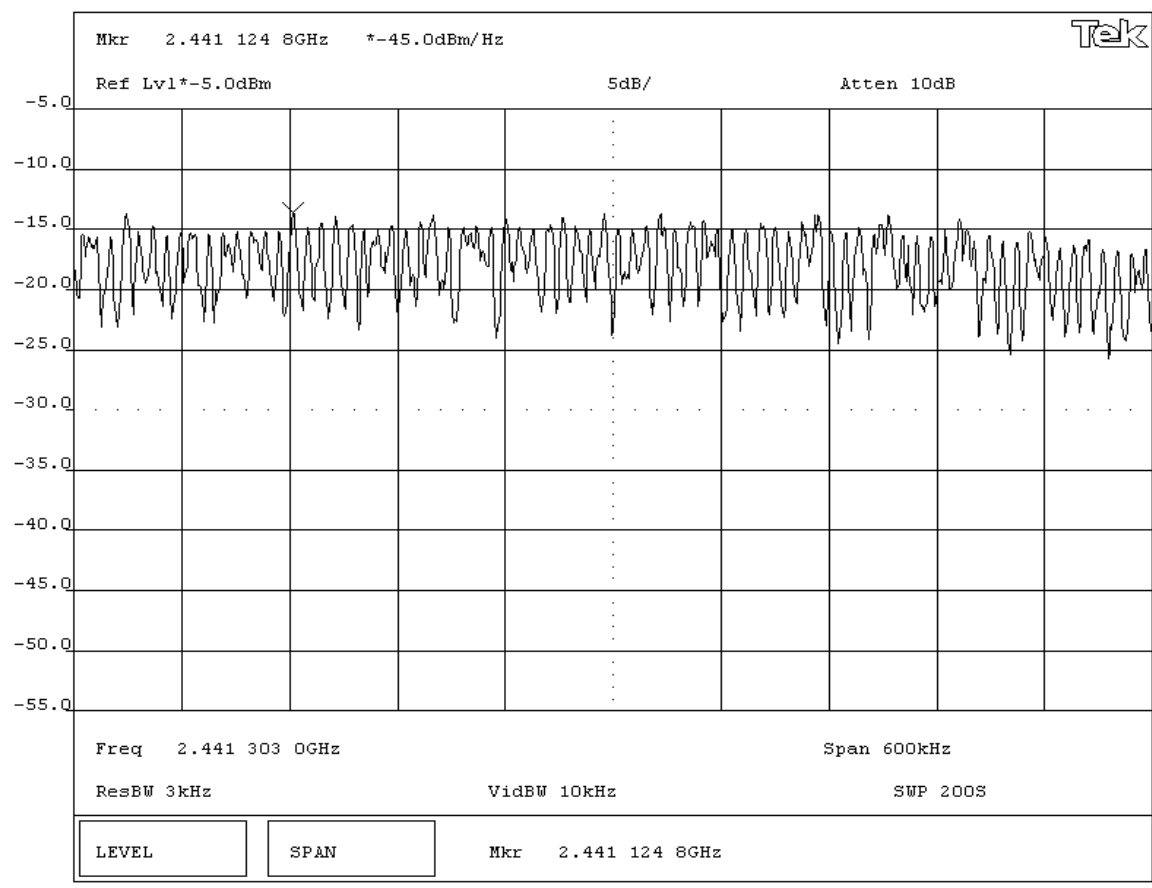
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -10.2 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Mid Channel - 802.11(b) 1 Mbps



EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Rod Peloquin	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at 1 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

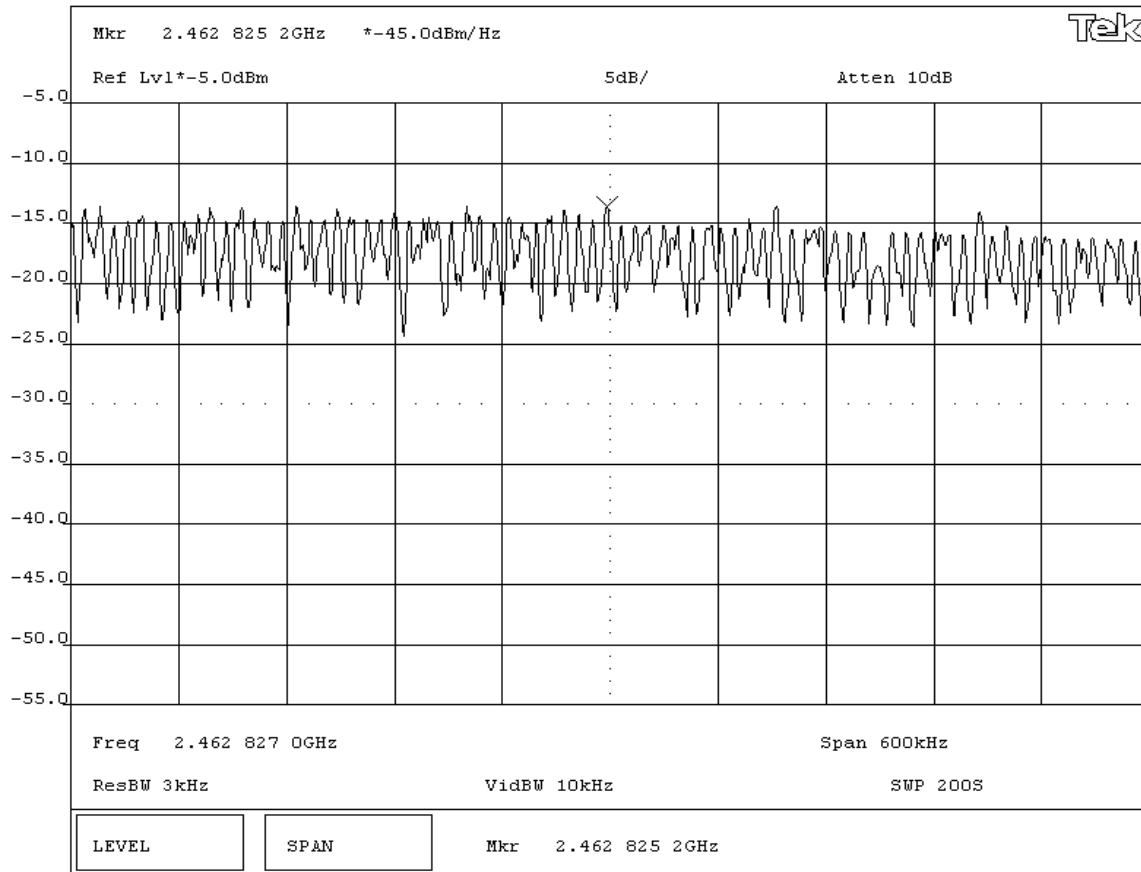
RESULTS

Pass Amplitude
 Power Spectral Density = -10.2 dBm / 3kHz

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST
Power Spectral Density - High Channel - 802.11(b) 1 Mbps



EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number: 000DF01504A8	Date: 09/03/04
Customer: INTERMEC Technologies	Temperature: 72 degrees F
Attendees: None	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992
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SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 5.5 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

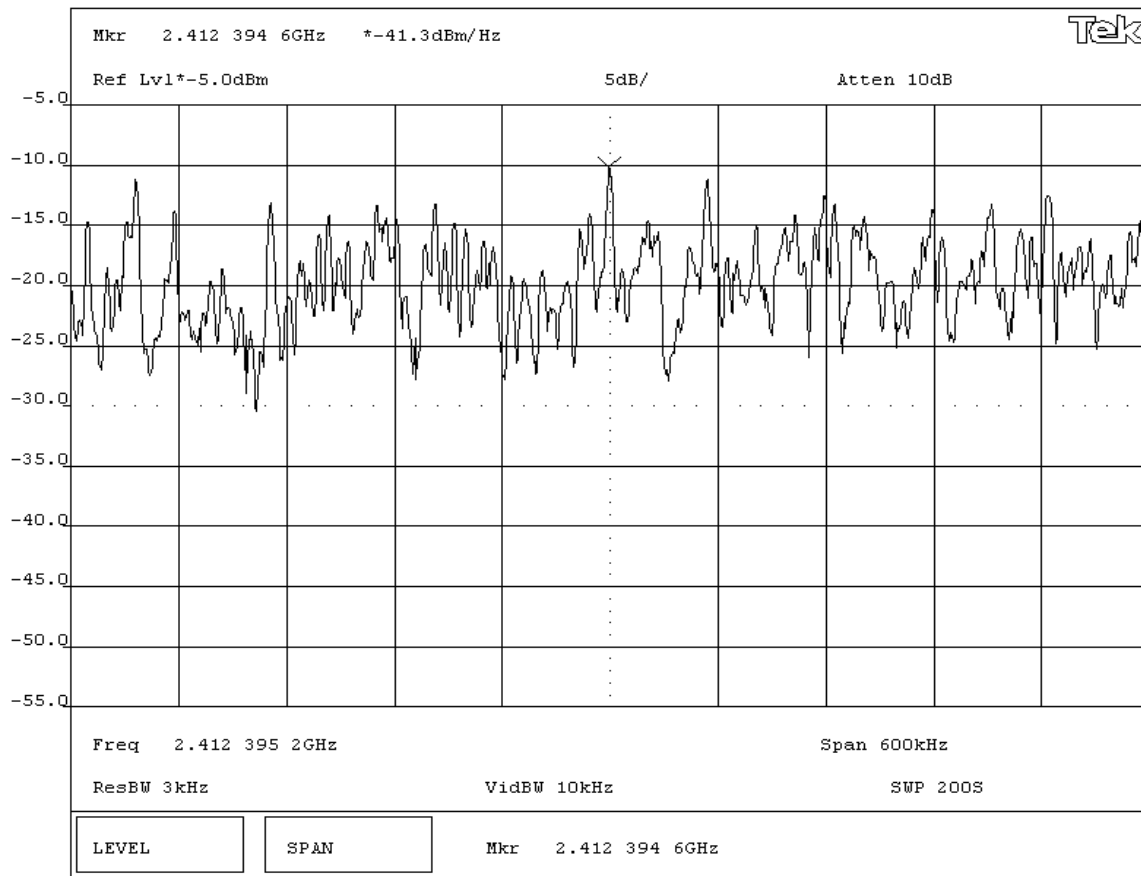
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude Power Spectral Density = -6.3 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(b) 5.5 Mbps



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EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number: 000DF01504A8	Date: 09/03/04
Customer: INTERMEC Technologies	Temperature: 72 degrees F
Attendees: None	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992
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SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 5.5 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

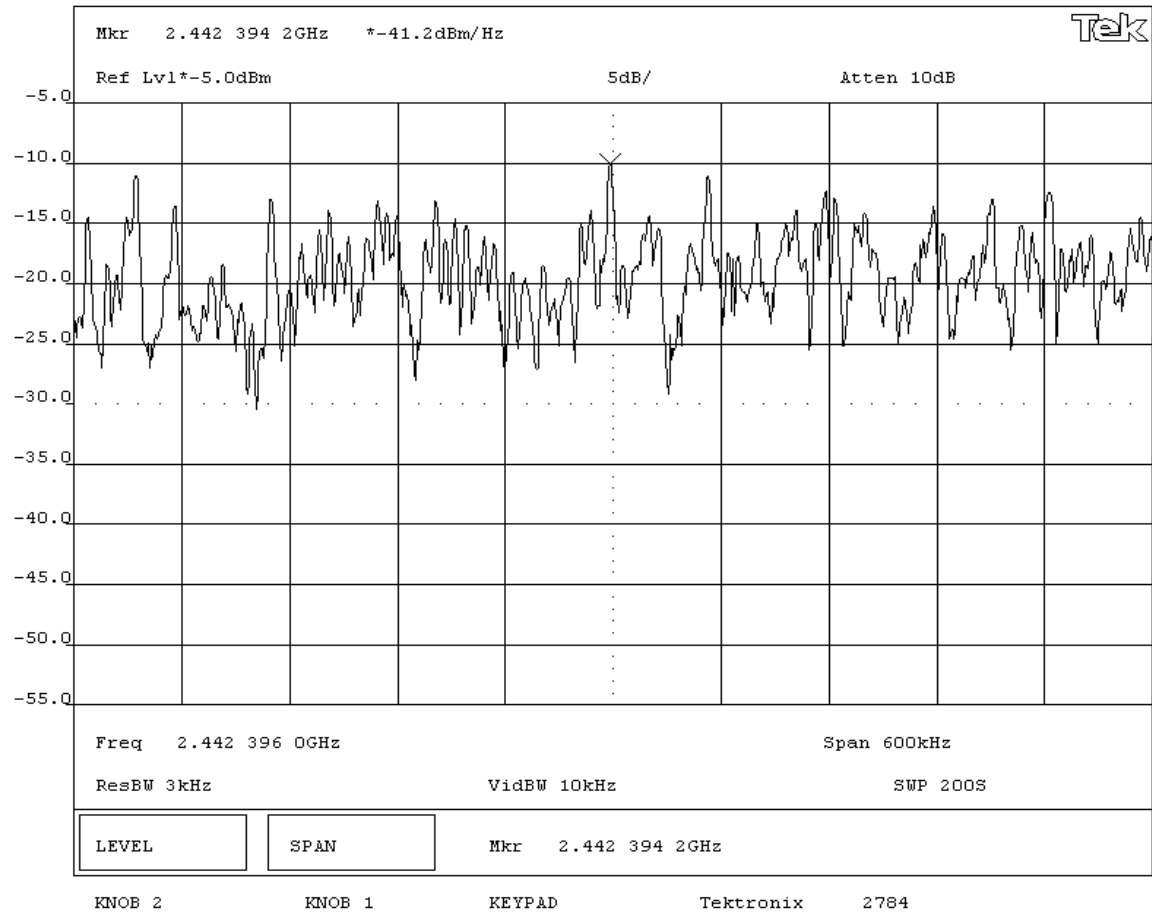
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -6.4 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Mid Channel - 802.11(b) 5.5 Mbps



EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0039
Serial Number: 000DF01504A8		Date: 09/03/04
Customer: INTERMEC Technologies		Temperature: 72 degrees F
Attendees: None	Tested by: Rod Peloquin	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz	Job Site: EV06

Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992
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SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at 5.5 Mbps data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS

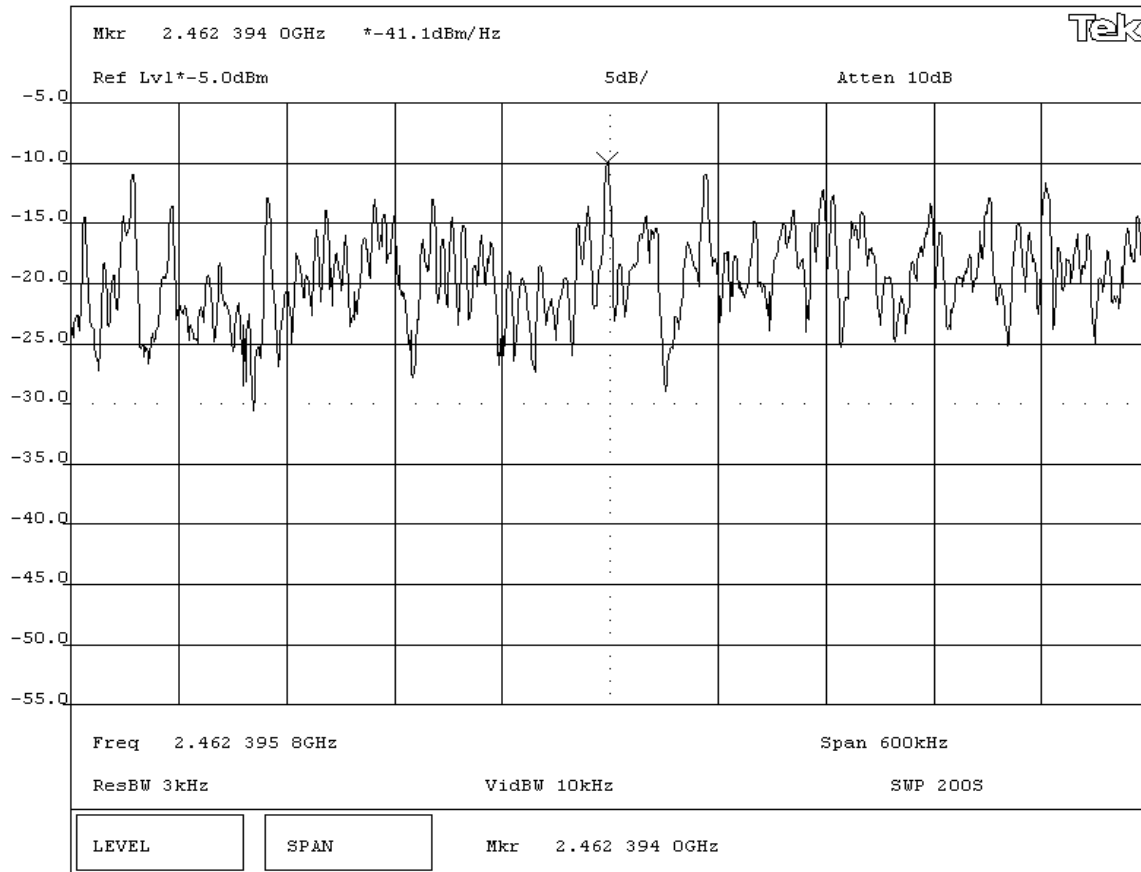
Pass Amplitude
 Power Spectral Density = -6.3 dBm / 3kHz

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 802.11(b) 5.5 Mbps



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EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/07/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

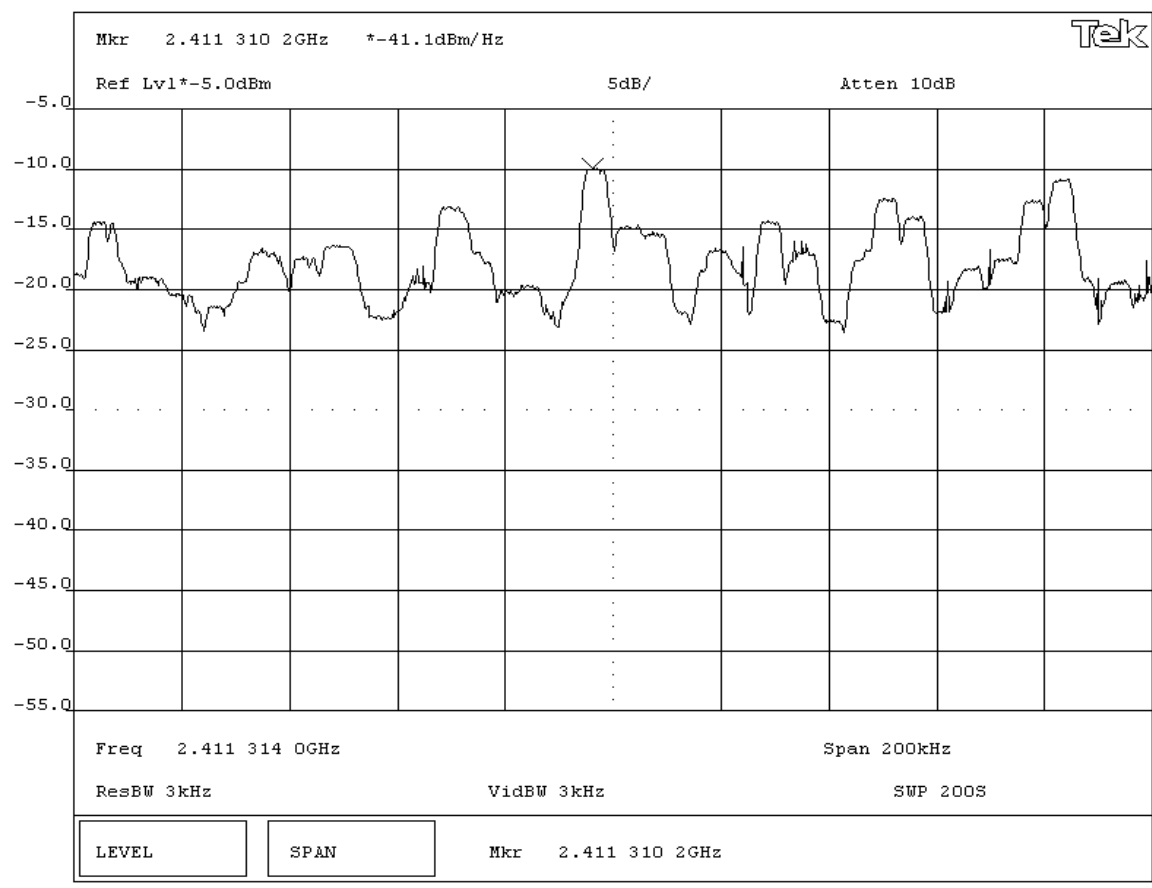
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -6.3 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(b) 11 Mbps



EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/07/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Rod Peloquin	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS

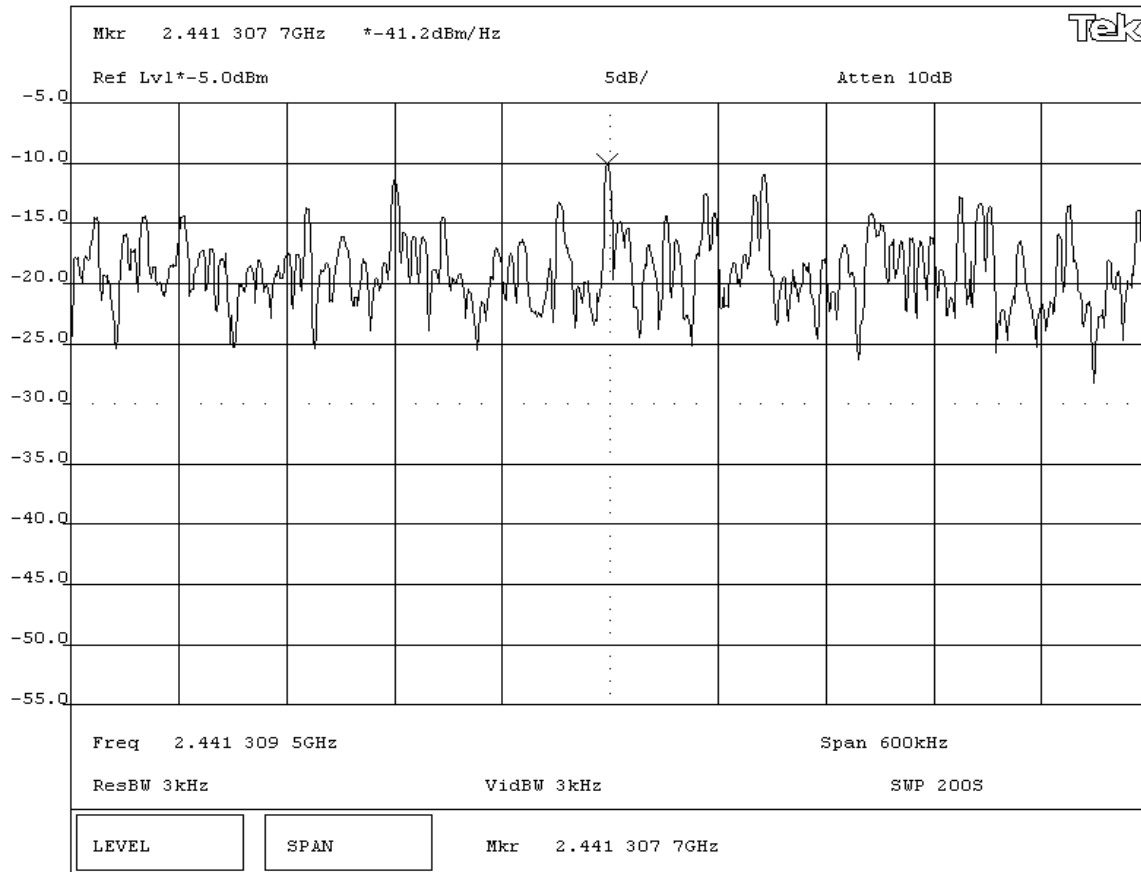
Pass Amplitude
 Power Spectral Density = -6.4 dBm / 3kHz

SIGNATURE

Tested By: *Rod Peloquin*

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 802.11(b) 11 Mbps



EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/07/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Rod Peloquin	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD
 None

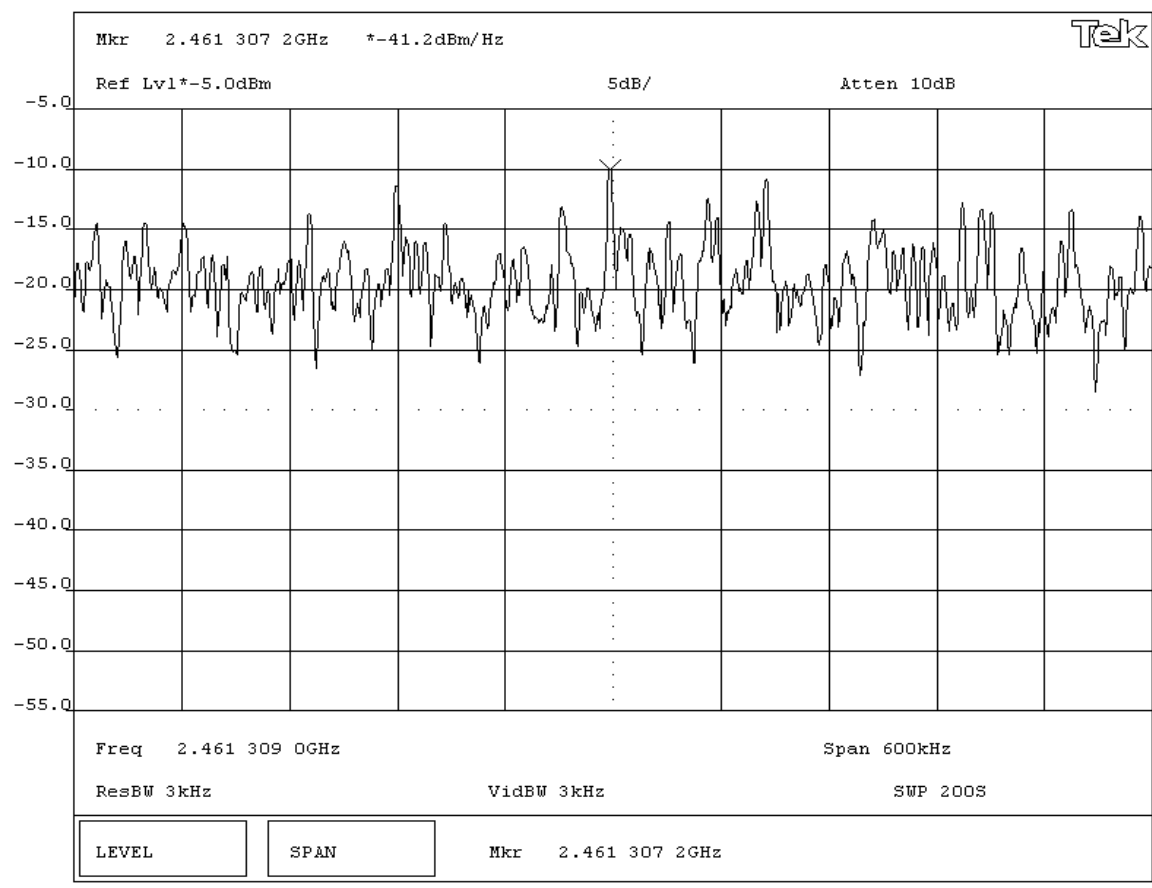
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -6.4 dBm / 3kHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - High Channel - 802.11(b) 11 Mbps



EUT: 802MIAG-CV60		Work Order: ITRM0039
Serial Number: 000DF01504A8		Date: 09/03/04
Customer: INTERMEC Technologies		Temperature: 72 degrees F
Attendees: None	Tested by: Greg Kiemel	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 6 Mbps data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

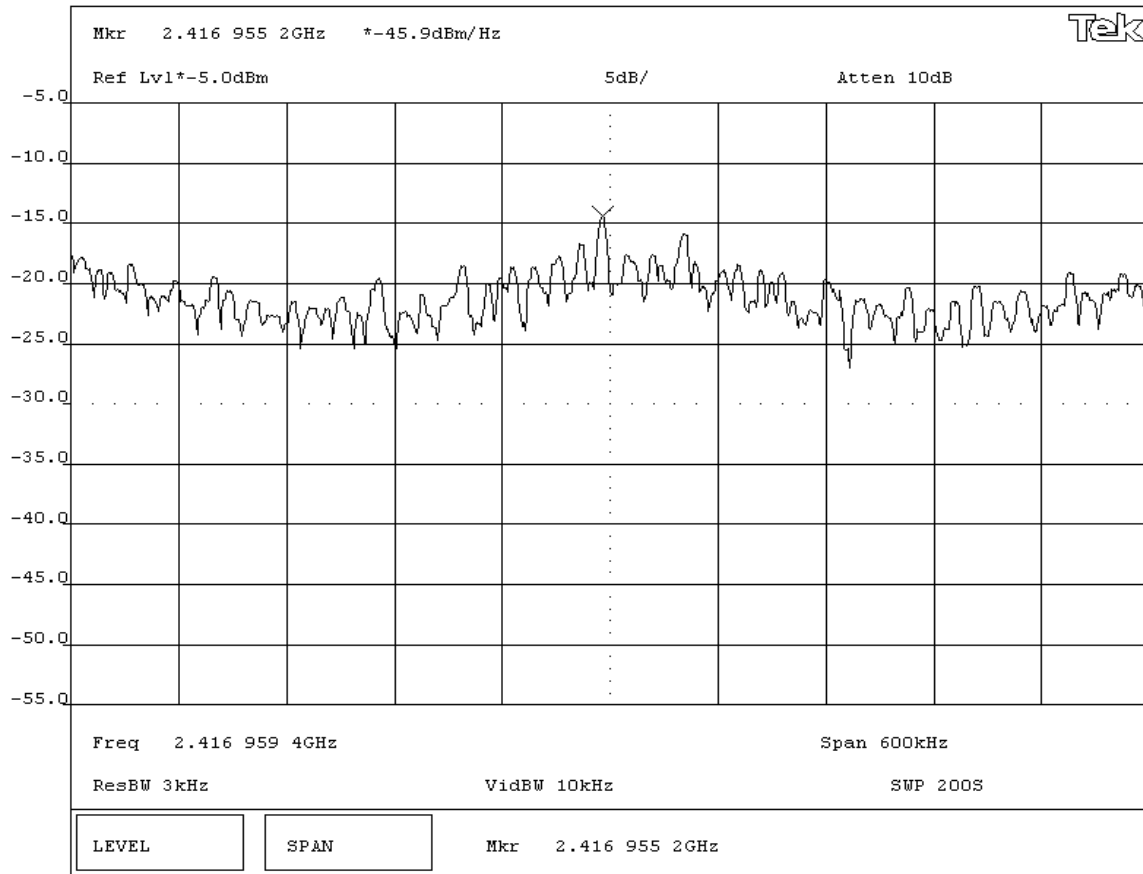
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude
 Power Spectral Density = -11.1 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(g) 6 Mbit



EUT: 802MIAG-CV60		Work Order: ITRM0039
Serial Number: 000DF01504A8		Date: 09/03/04
Customer: INTERMEC Technologies		Temperature: 72 degrees F
Attendees: None	Tested by: Greg Kiemel	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 6 Mbps data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

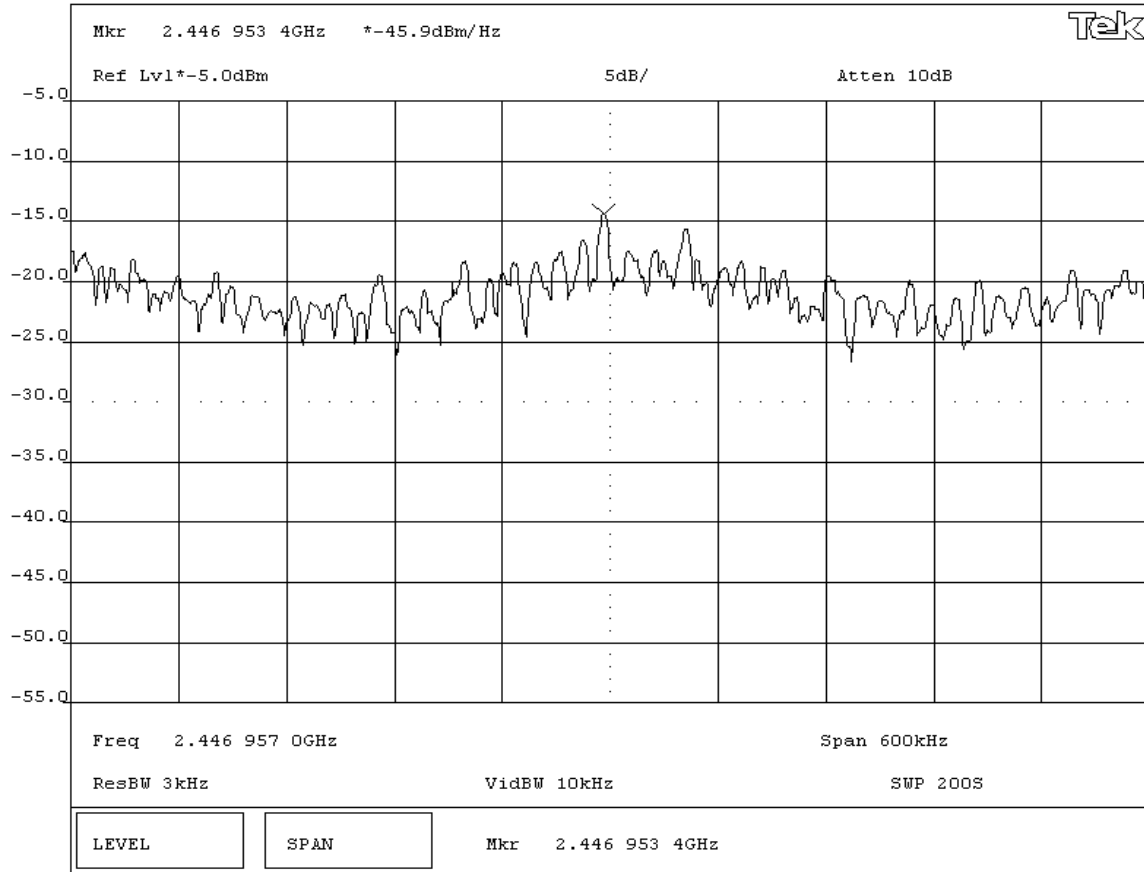
RESULTS
 Pass Amplitude
Power Spectral Density = -11.1 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density- Mid Channel - 802.11(g) 6 Mbit



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EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number: 000DF01504A8	Date: 09/03/04
Customer: INTERMEC Technologies	Temperature: 72 degrees F
Attendees: None	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz
Tested by: Greg Kiemel	Job Site: EV06

TEST SPECIFICATIONS
Specification: FCC Part 15.247(d) Year: 2003 Method: FCC 97-114, ANSI C63.4 Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 6 Mbps data rate, 802.11(g) modulation scheme.

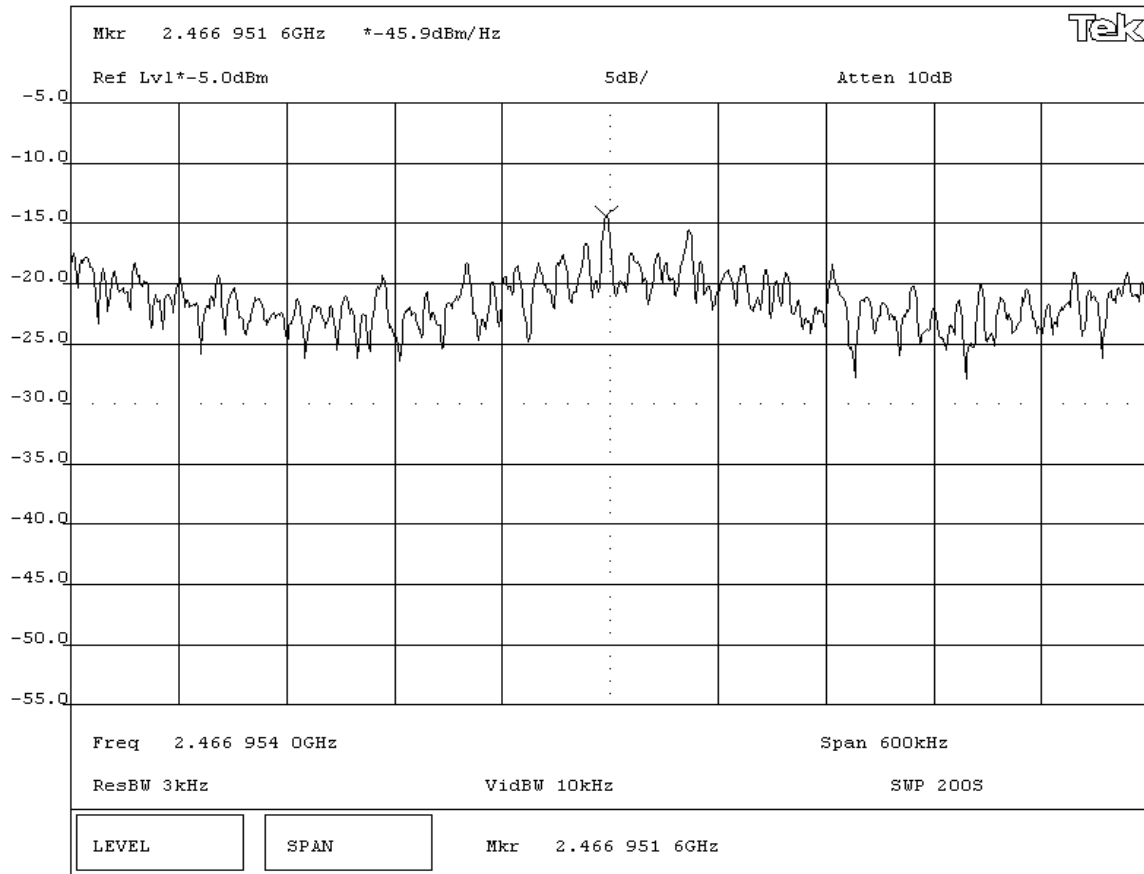
DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -11.1 dBm / 3kHz

SIGNATURE
 Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Power Spectral Density - High Channel - 802.11(g) 6 Mbit



EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 36 Mbps data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

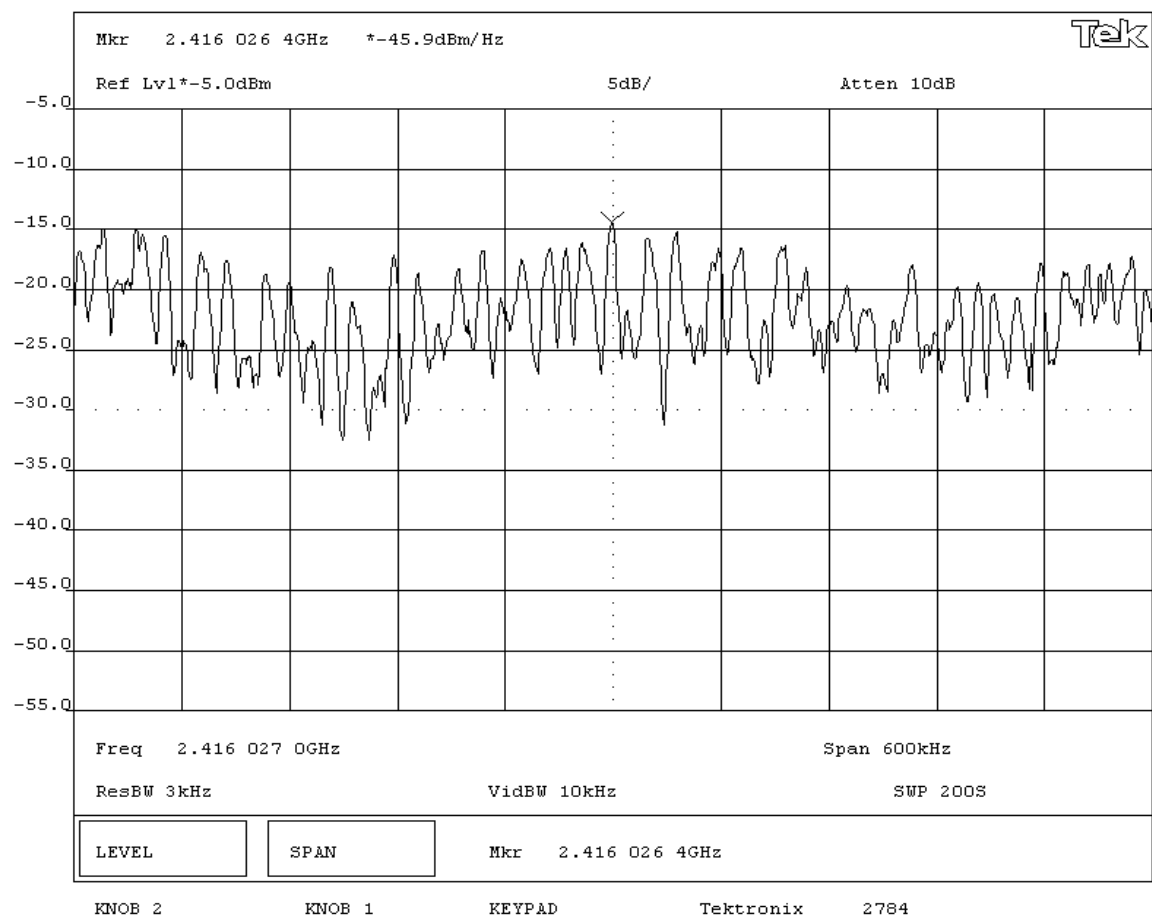
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude
 Power Spectral Density = -11.1 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(g) 36 Mbit



EUT: 802MIAG-CV60		Work Order: ITRM0039
Serial Number: 000DF01504A8		Date: 09/03/04
Customer: INTERMEC Technologies		Temperature: 72 degrees F
Attendees: None	Tested by: Greg Kiemel	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 36 Mbps data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

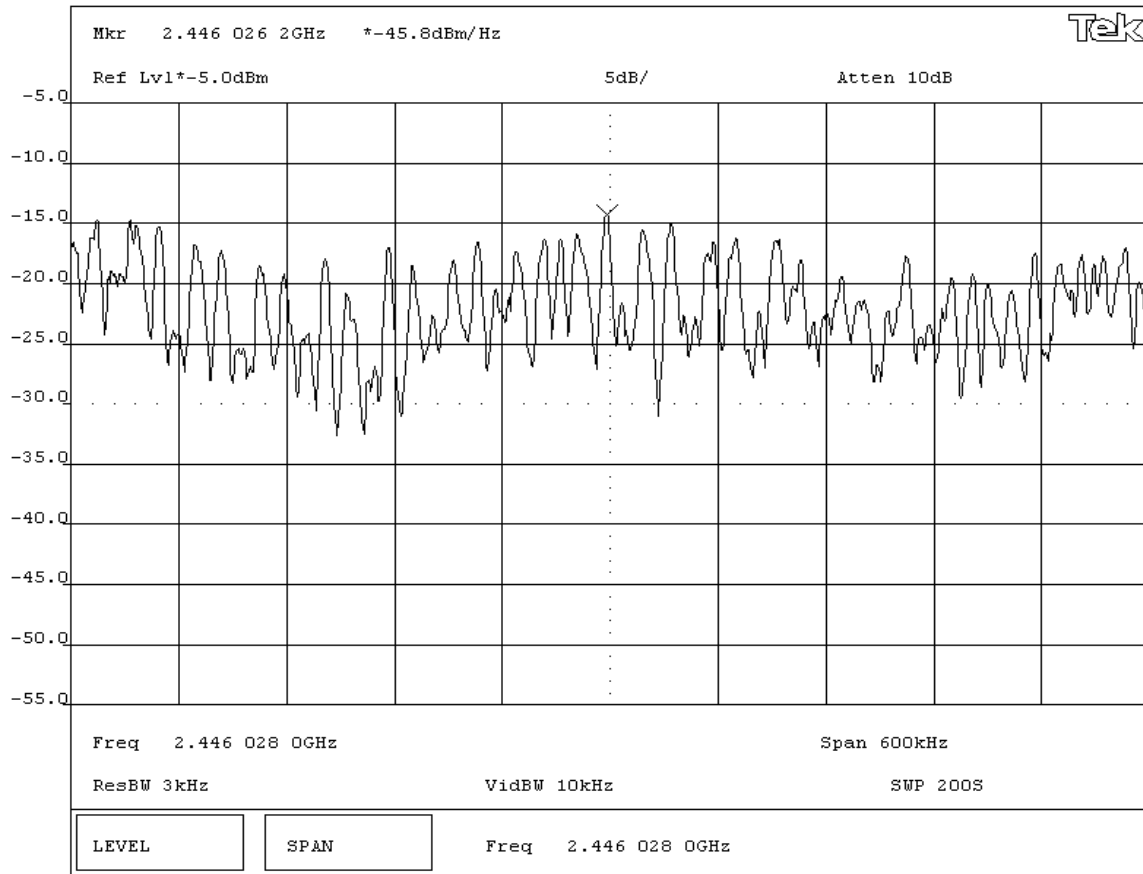
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude
 Power Spectral Density = -11.0 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Mid Channel - 802.11(g) 36 Mbit



EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number: 000DF01504A8	Date: 09/03/04
Customer: INTERMEC Technologies	Temperature: 72 degrees F
Attendees: None	Humidity: 43% RH
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992
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SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at 36 Mbps data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

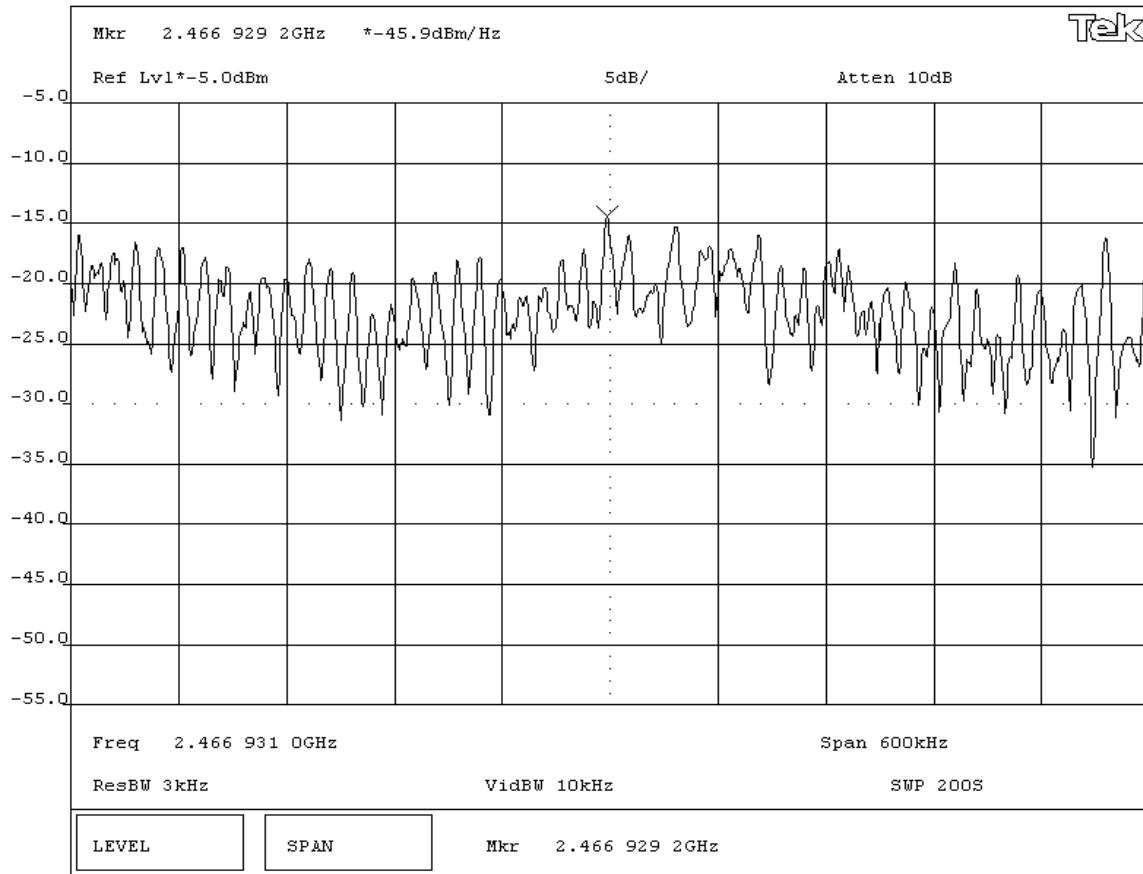
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS	Amplitude
Pass	Power Spectral Density = -11.1 dBm / 3kHz

SIGNATURE

Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Power Spectral Density - High Channel - 802.11(g) 36 Mbit



EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	Job Site: EV06	
Power: 120VAC/60Hz			

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

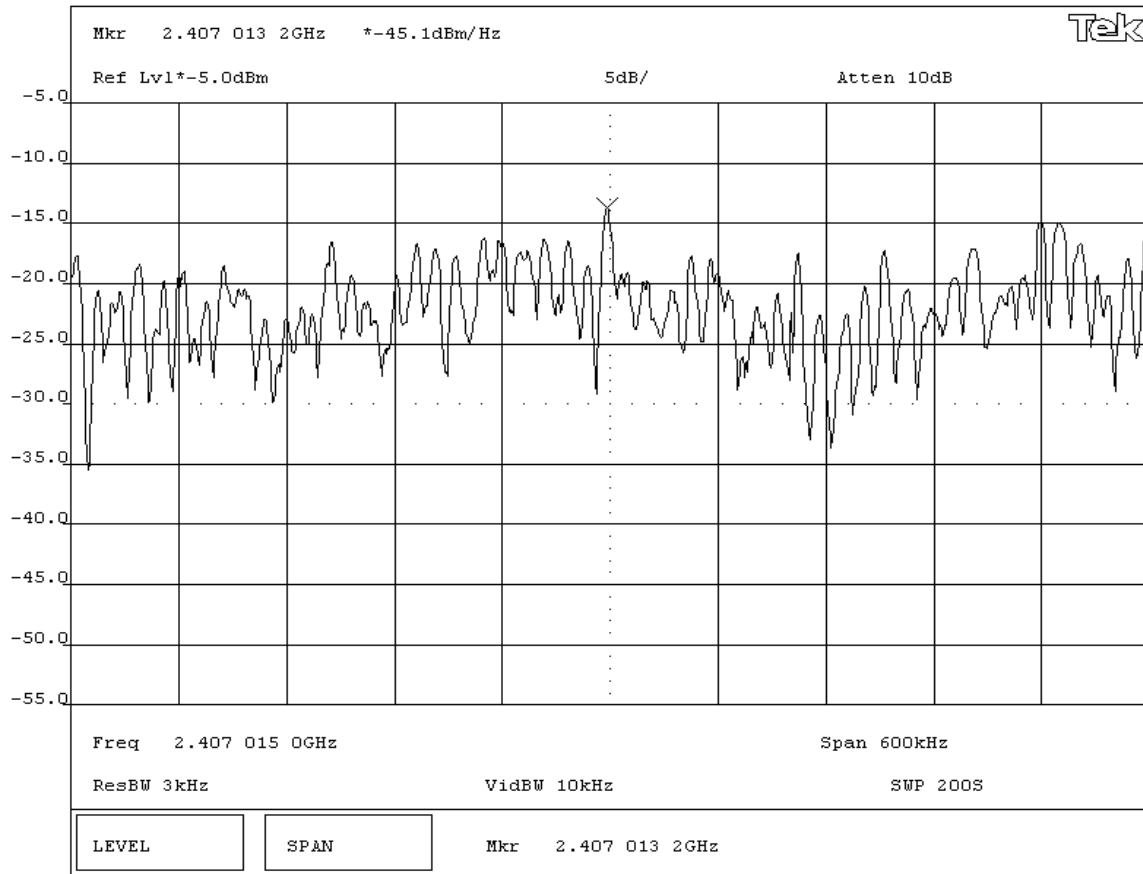
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude
 Power Spectral Density = -10.3 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Low Channel - 802.11(g) 54 Mbit



EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

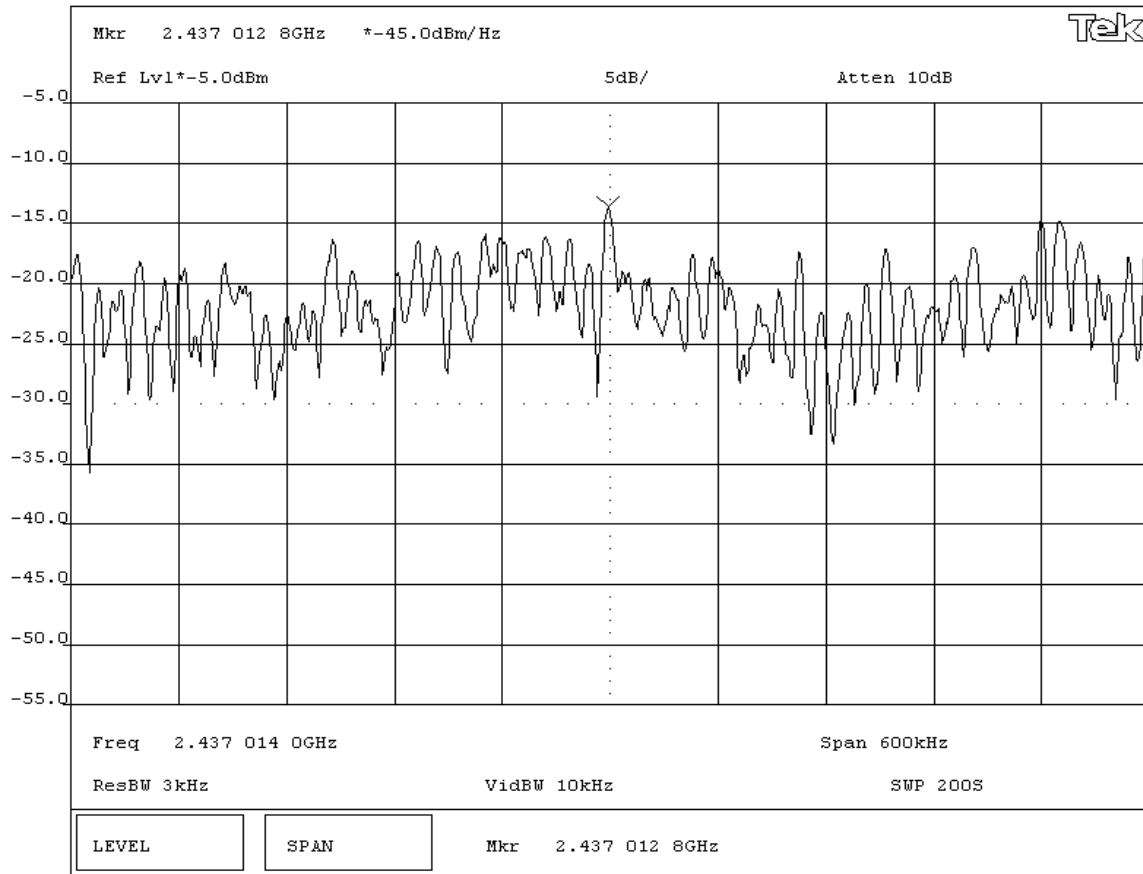
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS
 Pass Amplitude
 Power Spectral Density = -10.2 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - Mid Channel - 802.11(g) 54 Mbit



EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number: 000DF01504A8		Date: 09/03/04	
Customer: INTERMEC Technologies		Temperature: 72 degrees F	
Attendees: None		Humidity: 43% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	Power: 120VAC/60Hz	
		Job Site: EV06	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
 Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
 Bandwidth Correction Factor = $10 \cdot \log(3 \text{ kHz} / 1 \text{ Hz}) = 34.8 \text{ dB}$

COMMENTS

EUT OPERATING MODES
 Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD
 None

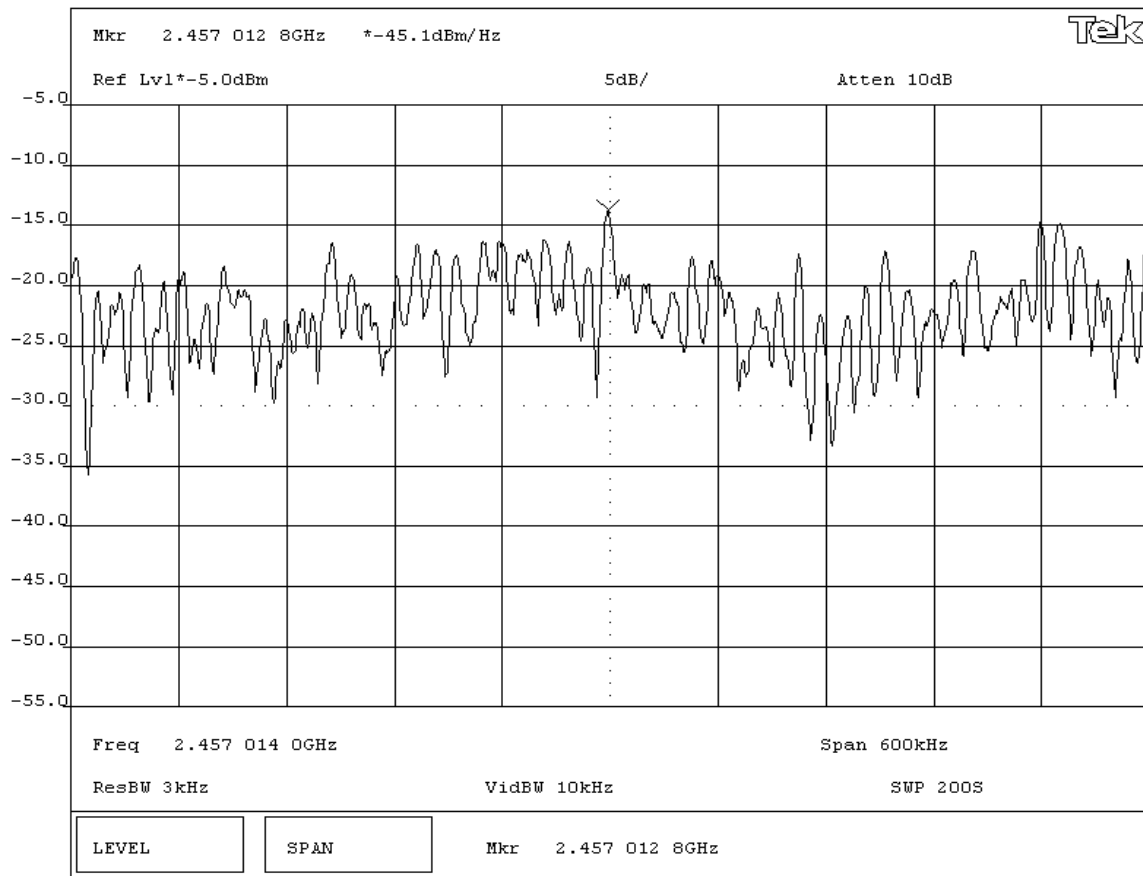
REQUIREMENTS
 Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

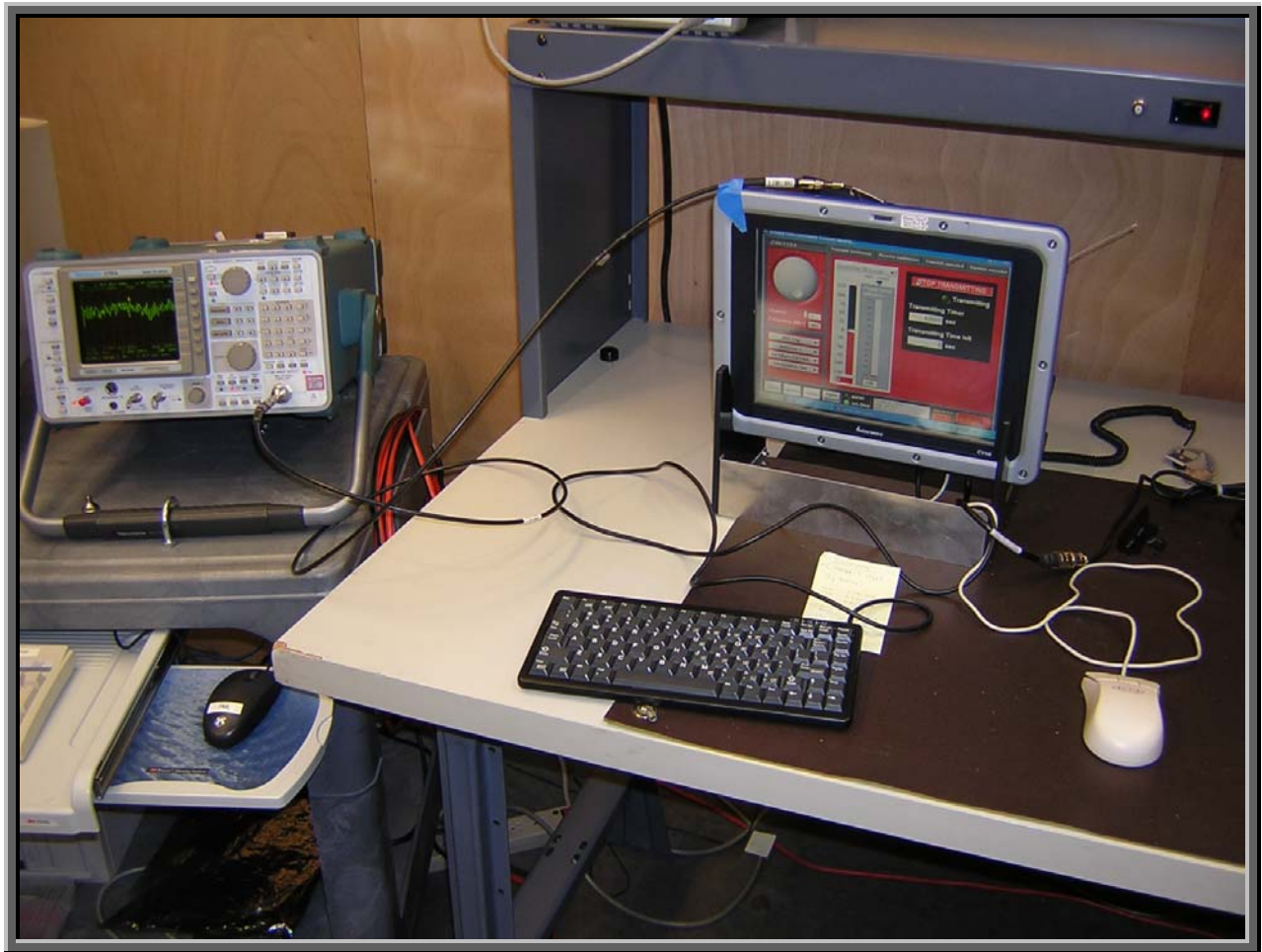
RESULTS
 Pass Amplitude
 Power Spectral Density = -10.3 dBm / 3kHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST
Power Spectral Density - High Channel - 802.11(g) 54 Mbit





Justification

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

Channels in Specified Band Investigated:

High
Mid
Low

Operating Modes Investigated:

Single Channel Continuous Transmit

Data Rates Investigated:

54 Mbit, 802.11(g)
36 Mbit, 802.11(g)
6 Mbit, 802.11(g)
11 Mbit, 802.11(b)
5.5 Mbit, 802.11(b)
1 Mbit, 802.11(b)

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated

Start Frequency	30 MHz	Stop Frequency	26 GHz
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Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals			
Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio 802MIAG-CV60	PRISM	3886	Unknown
Host PC	Intermec Technologies Corporation	CV60	23100400645
Headset	Unknown	Unknown	Unknown
Headphones	Sony	Unknown	Unknown
External Floppy Drive	TEAC	FC-05PU	0045708
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.2	No	Host PC	Headset
AC Power	No	1.0	No	Host PC	Headphones
USB	Yes	0.2	Yes	Host PC	External Floppy Drive
Serial (x2)	Yes	1.8	No	Host PC	Termination
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
LAN (10BT)	No	1.6	No	Host PC	Termination
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	AC Mains

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

Measurement Equipment					
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/23/2003	13 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	12/23/2003	13 mo
Spectrum Analyzer Display	Hewlett Packard	85662A	AALD	12/23/2003	13 mo
Antenna, Biconilog	EMCO	3141	AXE	12/03/2003	24 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	02/05/2004	13 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/05/2004	13 mo
Antenna, Horn	EMCO	3160-09	AHG	NCR	NA
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/08/2003	12 mo
High Pass Filter	Micro-Tronics	HPM50111	HFO	04/13/2004	13 mo
Attenuator		2082-6148-20	ATE	02/03/2004	13 mo
Antenna, Horn	EMCO	3160-08	AHK	NCR	NA
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/08/2003	12 mo

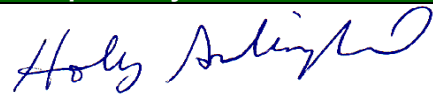
Test Description

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

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

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

Completed by:



Justification

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

Channels in Specified Band Investigated:

High
Mid
Low

Operating Modes Investigated:

Single Channel Continuous Transmit

Data Rates Investigated:

54 Mbit, 802.11(g)
36 Mbit, 802.11(g)
6 Mbit, 802.11(g)
11 Mbit, 802.11(b)
5.5 Mbit, 802.11(b)
1 Mbit, 802.11(b)

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated

Start Frequency	30 MHz	Stop Frequency	26 GHz
------------------------	--------	-----------------------	--------

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals			
Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio 802MIAG-CV60	PRISM	3886	Unknown
Host PC	Intermec Technologies Corporation	CV60	23100400645
Headset	Unknown	Unknown	Unknown
Headphones	Sony	Unknown	Unknown
External Floppy Drive	TEAC	FC-05PU	0045708
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.2	No	Host PC	Headset
AC Power	No	1.0	No	Host PC	Headphones
USB	Yes	0.2	Yes	Host PC	External Floppy Drive
Serial (x2)	Yes	1.8	No	Host PC	Termination
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
LAN (10BT)	No	1.6	No	Host PC	Termination
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	AC Mains

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

Measurement Equipment					
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/23/2003	13 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	12/23/2003	13 mo
Spectrum Analyzer Display	Hewlett Packard	85662A	AALD	12/23/2003	13 mo
Antenna, Biconilog	EMCO	3141	AXE	12/03/2003	24 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	02/05/2004	13 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/05/2004	13 mo
Antenna, Horn	EMCO	3160-09	AHG	NCR	NA
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/08/2003	12 mo
High Pass Filter	Micro-Tronics	HPM50111	HFO	04/13/2004	13 mo
Attenuator		2082-6148-20	ATE	02/03/2004	13 mo
Antenna, Horn	EMCO	3160-08	AHK	NCR	NA
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/08/2003	12 mo

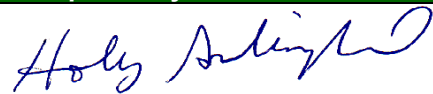
Test Description

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

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

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

Completed by:



RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number:	Date: 09/02/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.247(c) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC

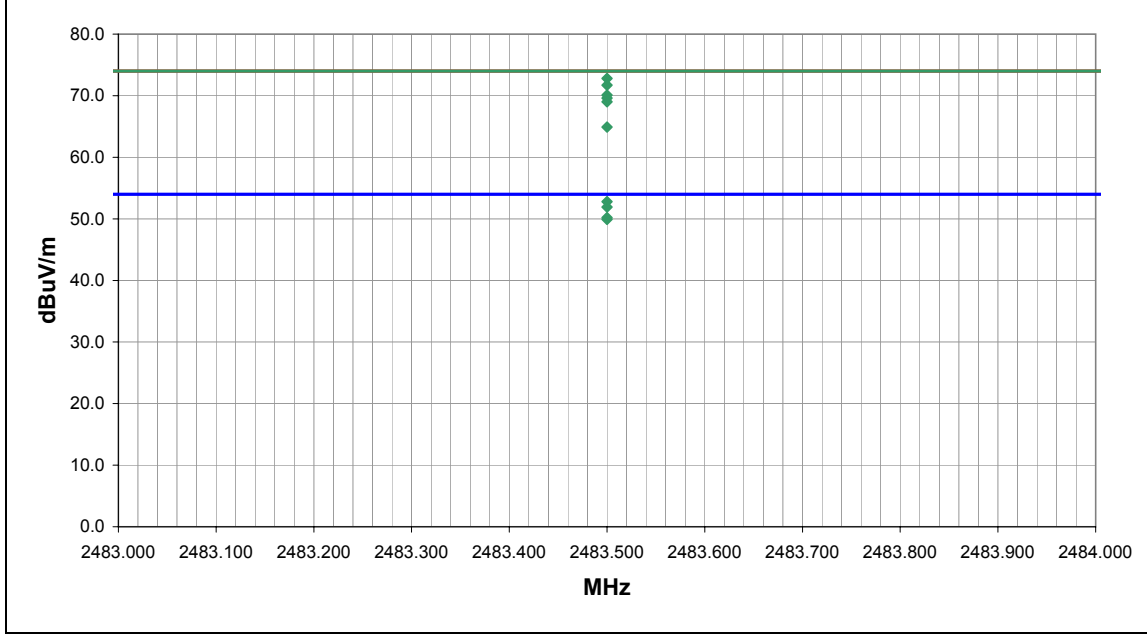
EUT OPERATING MODES
 Transmitting 802.11(g) High Channel. See comments for data rate.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Fail	1

Other


 Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	54.8	-2.0	13.0	1.1	3.0	20.0	H-Horn	PK	0.0	72.8	74.0	-1.2	36 Mbit
2483.500	34.8	-2.0	235.0	1.2	3.0	20.0	V-Horn	AV	0.0	52.8	54.0	-1.2	36 Mbit
2483.500	33.9	-2.0	20.0	2.6	3.0	20.0	H-Horn	AV	0.0	51.9	54.0	-2.1	6 Mbits
2483.500	53.7	-2.0	29.0	1.1	3.0	20.0	H-Horn	PK	0.0	71.7	74.0	-2.3	54 Mbit
2483.500	32.2	-2.0	244.0	1.9	3.0	20.0	V-Horn	AV	0.0	50.2	54.0	-3.8	36 Mbit
2483.500	52.1	-2.0	235.0	1.3	3.0	20.0	V-Horn	PK	0.0	70.1	74.0	-3.9	54 Mbit
2483.500	31.9	-2.0	242.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.9	54.0	-4.1	6 Mbits
2483.500	51.6	-2.0	20.0	2.6	3.0	20.0	H-Horn	PK	0.0	69.6	74.0	-4.4	6 Mbits
2483.500	51.0	-2.0	235.0	1.2	3.0	20.0	V-Horn	PK	0.0	69.0	74.0	-5.0	36 Mbit
2483.500	46.9	-2.0	242.0	1.2	3.0	20.0	V-Horn	PK	0.0	64.9	74.0	-9.1	6 Mbits

NORTHWEST
EMC RADIATED EMISSIONS DATA SHEET REV
 d14.2
 08/10/2004

EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number:	Date: 09/02/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.247(c) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC. Alternative Marker Delta test procedure.

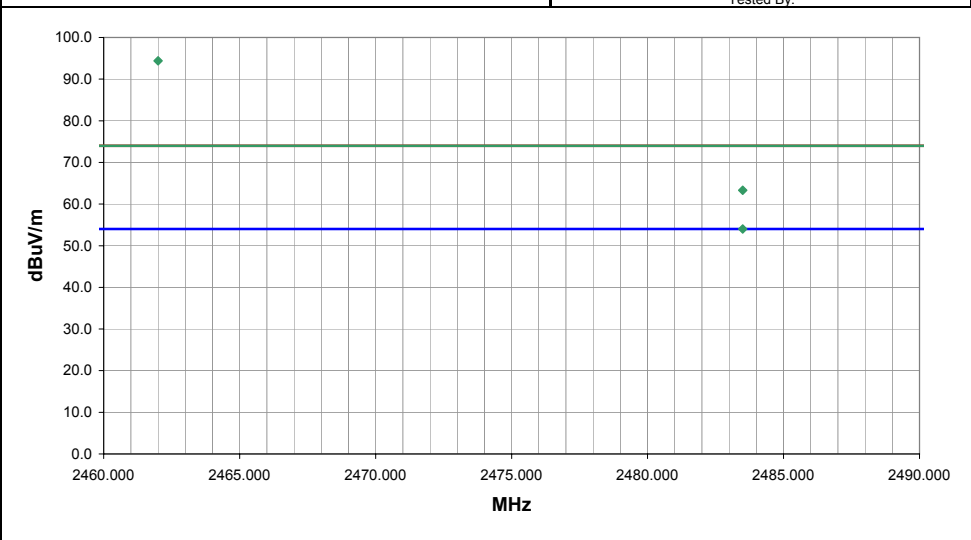
EUT OPERATING MODES
 Transmitting 802.11(g) High Channel. 36 Mbits.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	2

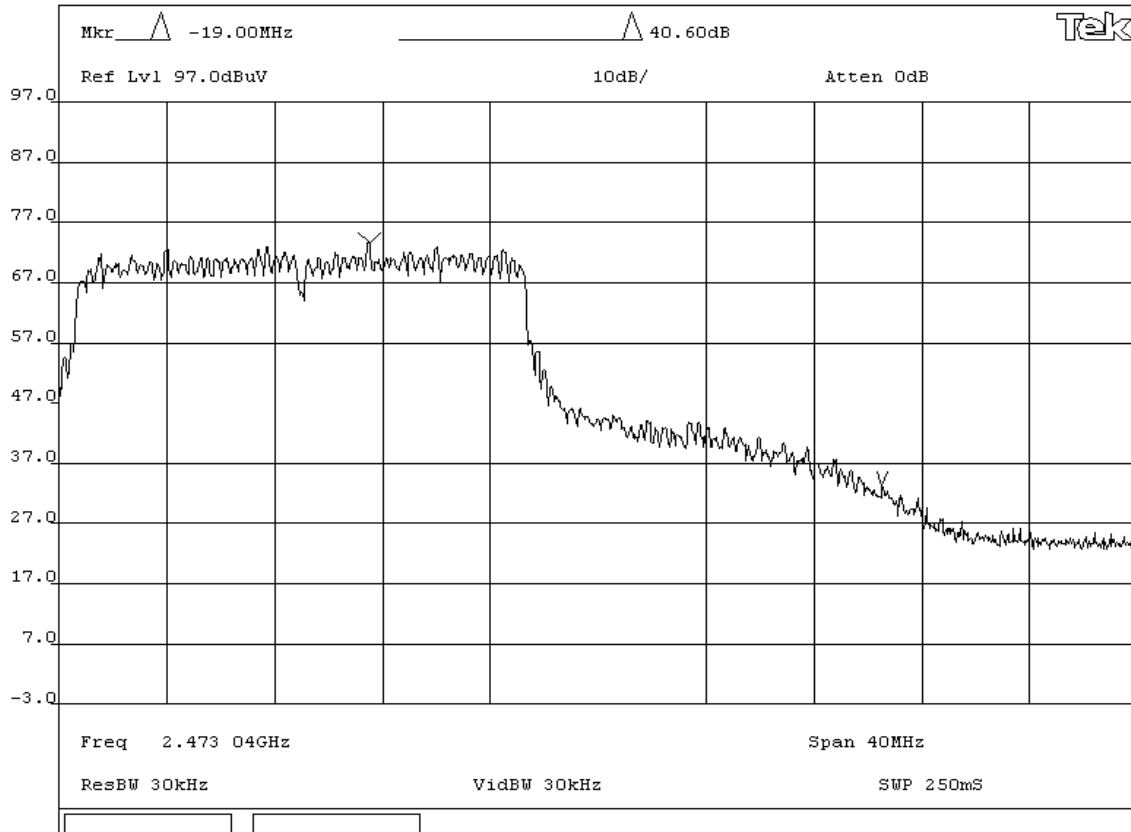
Other


 Tested By: _____



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2462.000	76.5	-2.1	23.0	1.1	3.0	20.0	H-Horn	AV	0.0	94.4	54.0	40.4	Fundamental
2462.000	85.8	-2.1	23.0	1.1	3.0	20.0	H-Horn	PK	0.0	103.7	74.0	29.7	Fundamental
2483.500	36.0	-2.0	23.0	1.1	3.0	20.0	H-Horn	AV	0.0	54.0	54.0	0.0	Marker delta = Fundamental - 40.5dB
2483.500	45.3	-2.0	23.0	1.1	3.0	20.0	H-Horn	PK	0.0	63.3	74.0	-10.7	Marker delta = Fundamental - 40.5dB

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
802MIAG-CV60 802.11(a)/(b)/(g) radio		Work Order: ITRM0039			
Serial Number:		Date: 09/02/04			
Customer: INTERMEC Technologies Corporation		Temperature: 75 degrees F			
Attendees: None		Tested by: Holly Ashkannejhad		Humidity: 40%	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV01	
TEST SPECIFICATIONS					
Specification: FCC Part 15.247(c)		Year: 2003	Method: FCC 97-114, ANSI C63.4		Year: 1992
SAMPLE CALCULATIONS					
Bandedge = Fundamental - Marker Delta.					
COMMENTS					
EUT OPERATING MODES					
Transmitting 802.11(g) High Channel at 36Mbps.					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
RESULTS					
Pass					
SIGNATURE					
Tested By: <i>Holly Ashkannejhad</i>					
DESCRIPTION OF TEST					
Marker Delta = 40.6dB					



NORTHWEST
EMC **RADIATED EMISSIONS DATA SHEET** REV
d14.2
08/10/2004

EUT: 802MIAG-CV60	Work Order: ITRM0039
Serial Number:	Date: 09/02/04
Customer: Intermec Technologies Corporation	Temperature: 75
Attendees: none	Humidity: 41%
Cust. Ref. No.:	Barometric Pressure: 30.02
Tested by: Holly Ashkannejhad	Power: 120VAC, 60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
Specification: FCC 15.247(c) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC. Alternative Marker Delta test procedure.

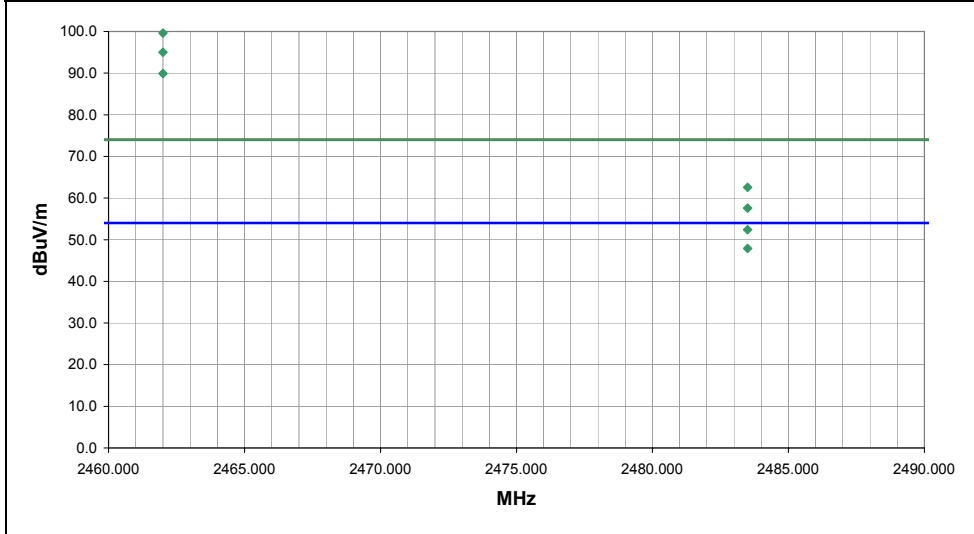
EUT OPERATING MODES
 Transmitting 802.11(g) High Channel. 54 Mbits.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	3

Other

Holly Ashkannejhad
 Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2462.000	77.1	-2.1	21.0	1.1	3.0	20.0	H-Horn	AV	0.0	95.0	54.0	41.0	Fundamental
2462.000	72.0	-2.1	244.0	1.2	3.0	20.0	V-Horn	AV	0.0	89.9	54.0	35.9	Fundamental
2462.000	87.3	-2.1	21.0	1.1	3.0	20.0	H-Horn	PK	0.0	105.2	74.0	31.2	Fundamental
2462.000	81.7	-2.1	244.0	1.2	3.0	20.0	V-Horn	PK	0.0	99.6	74.0	25.6	Marker Delta = Fundamental - 42.1dB
2483.500	34.4	-2.0	21.0	1.1	3.0	20.0	H-Horn	AV	0.0	52.4	54.0	-1.6	Marker delta = Fundamental - 42.7dB
2483.500	29.9	-2.0	244.0	1.2	3.0	20.0	V-Horn	AV	0.0	47.9	54.0	-6.1	Marker Delta = Fundamental - 42.1dB
2483.500	44.6	-2.0	21.0	1.1	3.0	20.0	H-Horn	PK	0.0	62.6	74.0	-11.4	Marker delta = Fundamental - 42.7dB
2483.500	39.6	-2.0	244.0	1.2	3.0	20.0	V-Horn	PK	0.0	57.6	74.0	-16.4	Fundamental

EMC EMISSIONS DATA SHEET Rev BETA 01/30/01

802MIAG-CV60	802.11(a)/(b)/(g) radio	Work Order:	ITRM0039
Serial Number:		Date:	09/02/04
Customer:	INTERMEC Technologies Corporation	Temperature:	75 degrees F
Attendees:	None	Tested by:	Holly Ashkannejhad
Customer Ref. No.:	N/A	Humidity:	40%
		Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC Part 15.247(c)	Year:	2003
Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS
 Bandedge = Fundamental - Marker Delta.

COMMENTS
 Marker delta for horizontal measurement

EUT OPERATING MODES
 Transmitting 802.11(g) High Channel at 54Mbps.

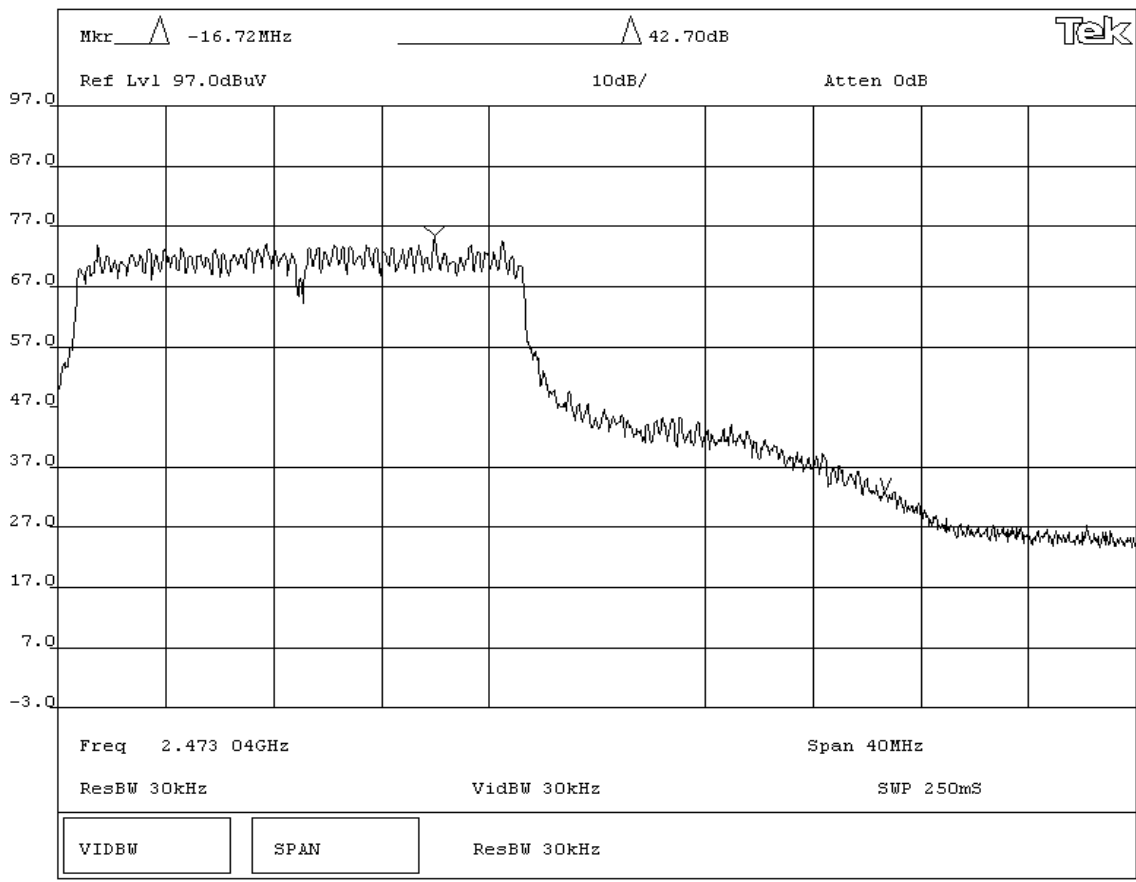
DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS

RESULTS
 Pass

SIGNATURE
 Tested By: Holly Ashkannejhad

DESCRIPTION OF TEST
Marker Delta = 42.7dB



ResBW 30kHz	VidBW 30kHz	SWP 250ms
-------------	-------------	-----------

EMC EMISSIONS DATA SHEET Rev BETA 01/30/01

802MIAG-CV60 802.11(a)/(b)/(g) radio		Work Order: ITRM0039	
Serial Number:		Date: 09/02/04	
Customer: INTERMEC Technologies Corporation		Temperature: 75 degrees F	
Attendees: None		Humidity: 40%	
Customer Ref. No.: N/A		Power: 120VAC/60Hz	
		Job Site: EV01	

TEST SPECIFICATIONS			
Specification: FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS
 Bandedge = Fundamental - Marker Delta.

COMMENTS
 Marker delta for vertical measurement

EUT OPERATING MODES
 Transmitting 802.11(g) High Channel at 54Mbps.

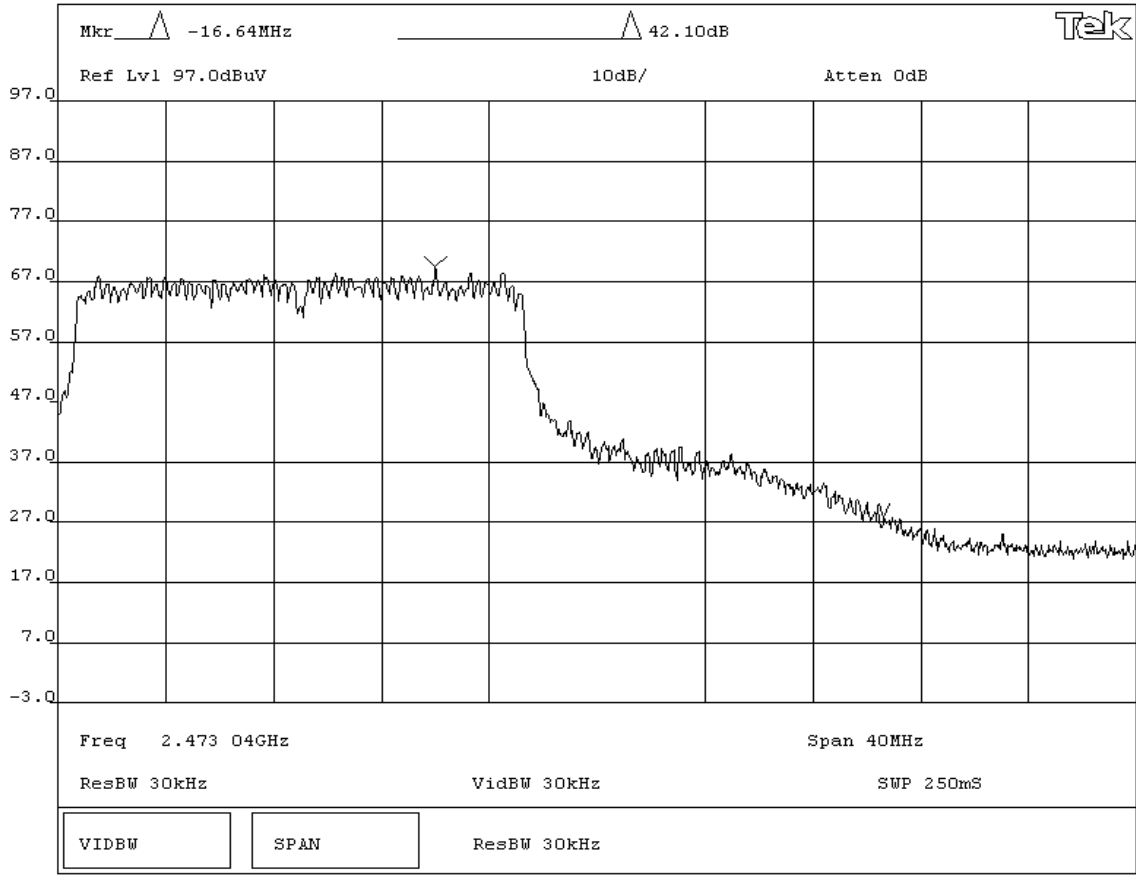
DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS

RESULTS
 Pass

SIGNATURE
 Tested By: *Holly Ashkannejhad*

DESCRIPTION OF TEST
Marker Delta = 42.1dB



Knob 2 Knob 1 Keypad Tektronix 2784

ResBW 30kHz VidBW 30kHz SWP 250ms

EMC RADIATED EMISSIONS DATA SHEET

EUT: 802MIAG-CV60		Work Order: ITRM0039	
Serial Number:		Date: 09/02/04	
Customer: Intermec Technologies Corporation		Temperature: 75	
Attendees: none		Humidity: 41%	
Cust. Ref. No.:		Barometric Pressure: 30.02	
Tested by: Holly Ashkannejhad		Power: 120VAC, 60Hz	
		Job Site: EV01	

TEST SPECIFICATIONS	
Specification: FCC 15.247(c) Spurious Radiated Emissions	Year: 2003
Method: ANSI C63.4	Year: 2001

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
 Radio in Host PC

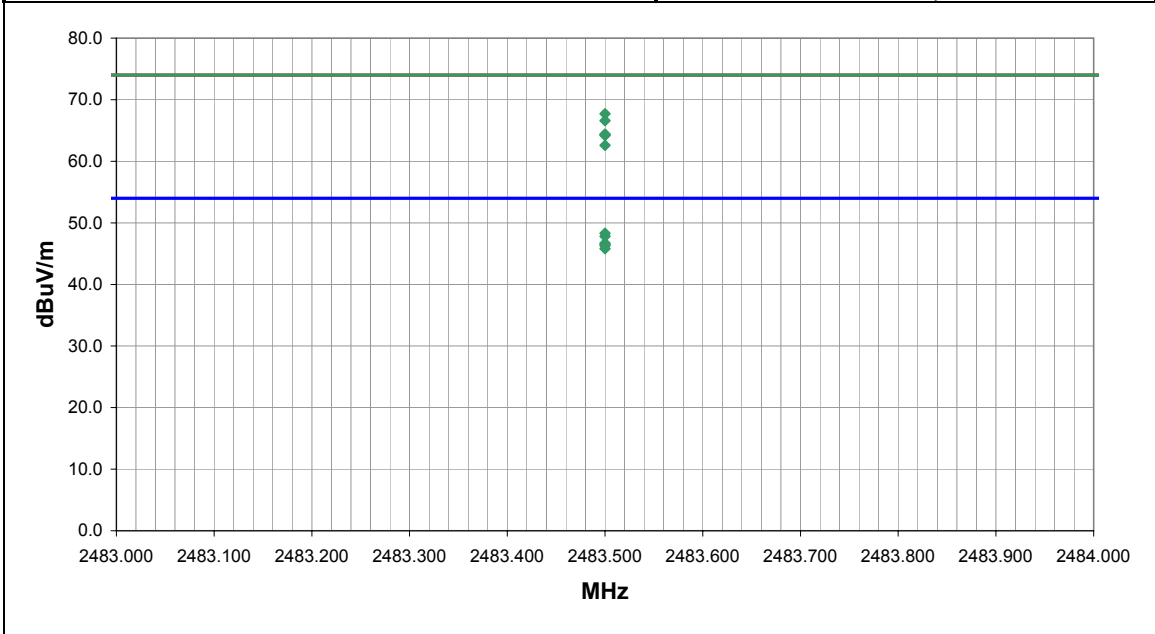
EUT OPERATING MODES
 Transmitting 802.11(b), High Channel. See comments for data rate.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	5

Other


 Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	30.3	-2.0	26.0	2.7	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	1Mbit
2483.500	29.8	-2.0	27.0	1.1	3.0	20.0	H-Horn	AV	0.0	47.8	54.0	-6.2	5.5Mbit
2483.500	49.7	-2.0	26.0	2.7	3.0	20.0	H-Horn	PK	0.0	67.7	74.0	-6.3	1Mbit
2483.500	28.7	-2.0	242.0	1.4	3.0	20.0	V-Horn	AV	0.0	46.7	54.0	-7.3	1Mbit
2483.500	48.6	-2.0	27.0	1.1	3.0	20.0	H-Horn	PK	0.0	66.6	74.0	-7.4	5.5Mbit
2483.500	28.5	-2.0	251.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.5	54.0	-7.5	5.5Mbit
2483.500	28.3	-2.0	258.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	11Mbits
2483.500	27.8	-2.0	39.0	1.7	3.0	20.0	H-Horn	AV	0.0	45.8	54.0	-8.2	11Mbits
2483.500	46.4	-2.0	251.0	1.2	3.0	20.0	V-Horn	PK	0.0	64.4	74.0	-9.6	5.5Mbit
2483.500	46.3	-2.0	242.0	1.4	3.0	20.0	V-Horn	PK	0.0	64.3	74.0	-9.7	1Mbit
2483.500	46.2	-2.0	258.0	1.2	3.0	20.0	V-Horn	PK	0.0	64.2	74.0	-9.8	11Mbits
2483.500	44.6	-2.0	39.0	1.7	3.0	20.0	H-Horn	PK	0.0	62.6	74.0	-11.4	11Mbits

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/02/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.247(c) Spurious Radiated Emissions
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
Radio in Host PC

EUT OPERATING MODES
Transmitting Low Channel. See comments for mode and data rate.

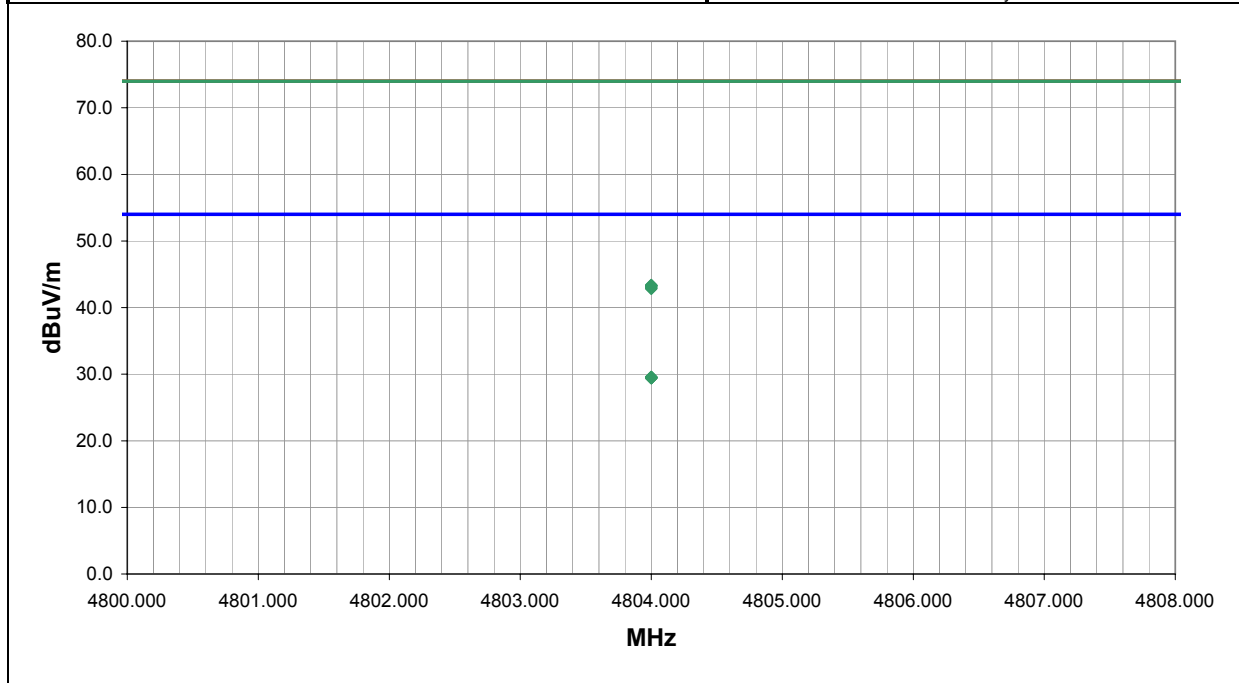
DEVIATIONS FROM TEST STANDARD
No deviations.

RESULTS	Run #
Evaluation	6

Other



Tested By: _____



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4804.000	26.2	3.4	312.0	1.6	3.0	0.0	H-Horn	AV	0.0	29.6	54.0	-24.4
4804.000	26.2	3.4	205.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.6	54.0	-24.4
4804.000	26.1	3.4	141.0	2.5	3.0	0.0	H-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.1	3.4	346.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.1	3.4	40.0	1.2	3.0	0.0	H-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.1	3.4	230.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.1	3.4	165.0	3.2	3.0	0.0	H-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.1	3.4	346.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.5	54.0	-24.5
4804.000	26.0	3.4	255.0	1.5	3.0	0.0	H-Horn	AV	0.0	29.4	54.0	-24.6
4804.000	26.0	3.4	211.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.4	54.0	-24.6
4804.000	26.0	3.4	104.0	1.3	3.0	0.0	H-Horn	AV	0.0	29.4	54.0	-24.6
4804.000	26.0	3.4	290.0	1.2	3.0	0.0	V-Horn	AV	0.0	29.4	54.0	-24.6
4804.000	40.0	3.4	211.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6
4804.000	39.9	3.4	346.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.3	74.0	-30.7
4804.000	39.9	3.4	312.0	1.6	3.0	0.0	H-Horn	PK	0.0	43.3	74.0	-30.7
4804.000	39.9	3.4	205.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.3	74.0	-30.7
4804.000	39.9	3.4	165.0	3.2	3.0	0.0	H-Horn	PK	0.0	43.3	74.0	-30.7
4804.000	39.9	3.4	290.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.3	74.0	-30.7
4804.000	39.8	3.4	230.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.2	74.0	-30.8
4804.000	39.7	3.4	255.0	1.5	3.0	0.0	H-Horn	PK	0.0	43.1	74.0	-30.9
4804.000	39.6	3.4	40.0	1.2	3.0	0.0	H-Horn	PK	0.0	43.0	74.0	-31.0

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4804.000	39.5	3.4	141.0	2.5	3.0	0.0	H-Horn	PK	0.0	42.9	74.0	-31.1
4804.000	39.5	3.4	346.0	1.2	3.0	0.0	V-Horn	PK	0.0	42.9	74.0	-31.1
4804.000	39.4	3.4	104.0	1.3	3.0	0.0	H-Horn	PK	0.0	42.8	74.0	-31.2

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/03/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS	
Specification:	FCC 15.247(c) Spurious Radiated Emissions
Method:	ANSI C63.4
Year:	2003
Year:	2001

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
 Radio in Host PC

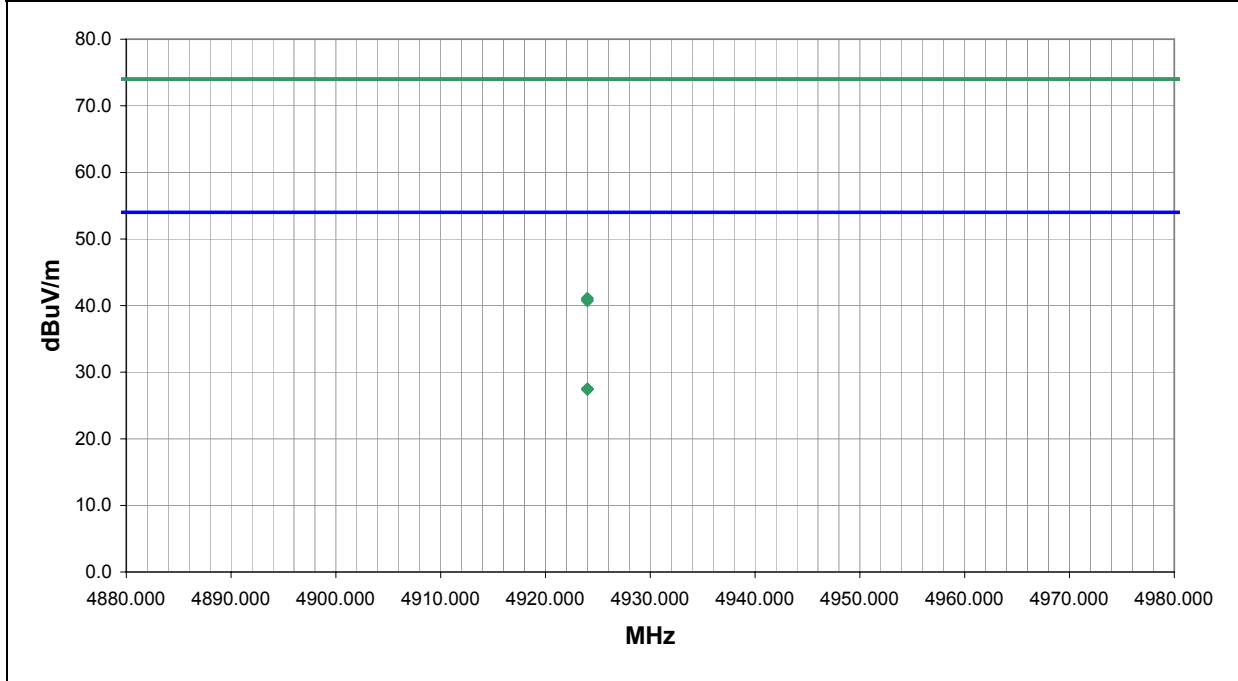
EUT OPERATING MODES
 Transmitting High Channel. See comments for mode and data rate.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Run #
Pass	7

Other


 Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4924.000	23.8	3.7	122.0	1.3	3.0	0.0	H-Horn	AV	0.0	27.5	54.0	-26.5
4924.000	23.8	3.7	103.0	1.2	3.0	0.0	V-Horn	AV	0.0	27.5	54.0	-26.5
4924.000	23.8	3.7	34.0	1.3	3.0	0.0	H-Horn	AV	0.0	27.5	54.0	-26.5
4924.000	23.7	3.7	230.0	1.3	3.0	0.0	H-Horn	AV	0.0	27.4	54.0	-26.6
4924.000	23.7	3.7	267.0	3.8	3.0	0.0	V-Horn	AV	0.0	27.4	54.0	-26.6
4924.000	23.7	3.7	217.0	1.9	3.0	0.0	V-Horn	AV	0.0	27.4	54.0	-26.6
4924.000	37.4	3.7	122.0	1.3	3.0	0.0	H-Horn	PK	0.0	41.1	74.0	-32.9
4924.000	37.4	3.7	217.0	1.9	3.0	0.0	V-Horn	PK	0.0	41.1	74.0	-32.9
4924.000	37.3	3.7	103.0	1.2	3.0	0.0	V-Horn	PK	0.0	41.0	74.0	-33.0
4924.000	37.1	3.7	230.0	1.3	3.0	0.0	H-Horn	PK	0.0	40.8	74.0	-33.2
4924.000	37.1	3.7	34.0	1.3	3.0	0.0	H-Horn	PK	0.0	40.8	74.0	-33.2
4924.000	37.0	3.7	267.0	3.8	3.0	0.0	V-Horn	PK	0.0	40.7	74.0	-33.3





Justification

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

Channels in Specified Band Investigated:

High
Mid
Low

Operating Modes Investigated:

Single Channel Continuous Transmit

Data Rates Investigated:

802.11(g), 6Mbit

Output Power Setting(s) Investigated:

Maximum default

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	cTxRx	Version	2.3.0.0
Description			
The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio 802MIAG-CV60	PRISM	3886	Unknown
Host PC	Intermec Technologies Corporation	CV60	23100400645
Headset	Unknown	Unknown	Unknown
Headphones	Sony	Unknown	Unknown
External Floppy Drive	TEAC	FC-05PU	0045708
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.2	No	Host PC	Headset
AC Power	No	1.0	No	Host PC	Headphones
USB	Yes	0.2	Yes	Host PC	External Floppy Drive
Serial (x2)	Yes	1.8	No	Host PC	Termination
USB	Yes	1.1	No	Host PC	USB Mouse
Keyboard	PA	1.5	PA	Host PC	Keyboard
LAN (10BT)	No	1.6	No	Host PC	Termination
DC Leads	PA	1.0	PA	Host PC	Power Supply
AC Power	No	2.0	No	Power Supply	AC Mains

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

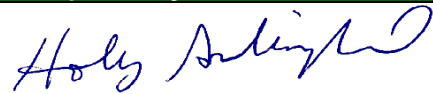
Measurement Equipment					
Description	Manufacturer	Model	Identifier	Last Cal	Interval
High Pass Filter	TTE	H97-100k-50-720B	HFC	02/01/2004	13 mo
LISN	Solar	9252-50-R-24-BNC	LIN	12/16/2003	13 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/23/2003	13 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	12/23/2003	13 mo
Spectrum Analyzer Display	Hewlett Packard	85662A	AALD	12/23/2003	13 mo

Test Description

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

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

Completed by:



EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(g), 6Mbps, Low Channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

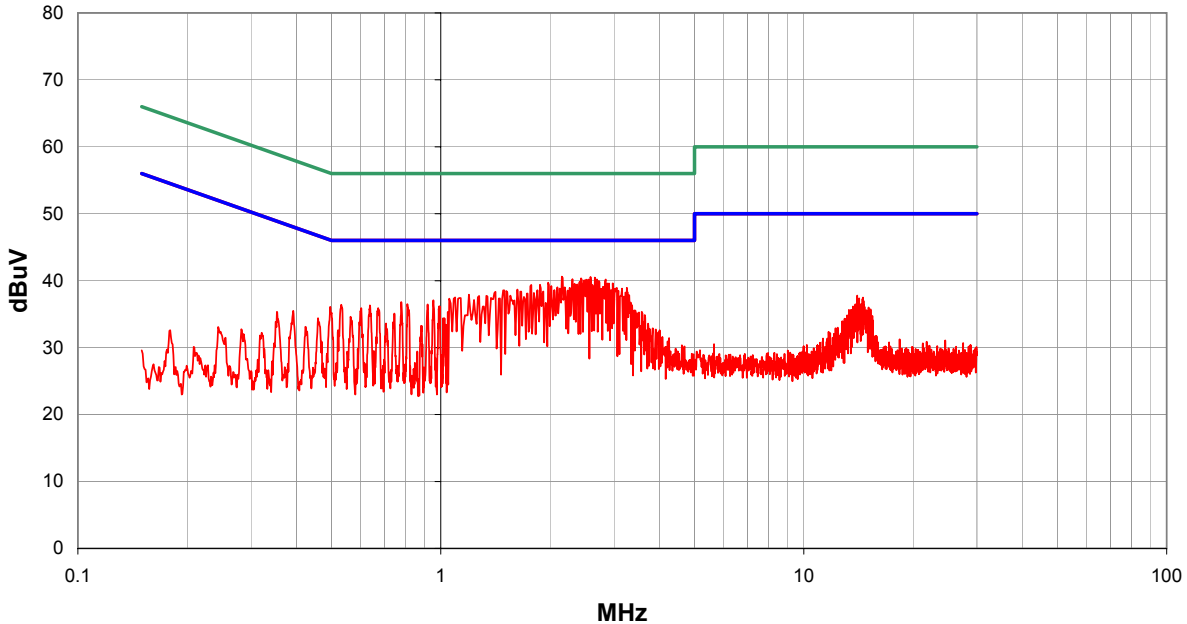
RESULTS

Pass	Line	Run #
Pass	L1	1

Other

Holly Ashkannejhad

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)
2.156	20.2	0.0	0.4	20.0		40.6	46.0	-5.4
2.586	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
2.656	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.436	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.306	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.846	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.696	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.556	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.726	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.416	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
1.975	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
2.976	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
2.906	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
2.876	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
2.336	19.1	0.0	0.4	20.0		39.5	46.0	-6.5
2.376	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
1.875	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
1.775	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
2.616	18.9	0.0	0.5	20.0		39.4	46.0	-6.6

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(g), 6Mbps, Low Channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

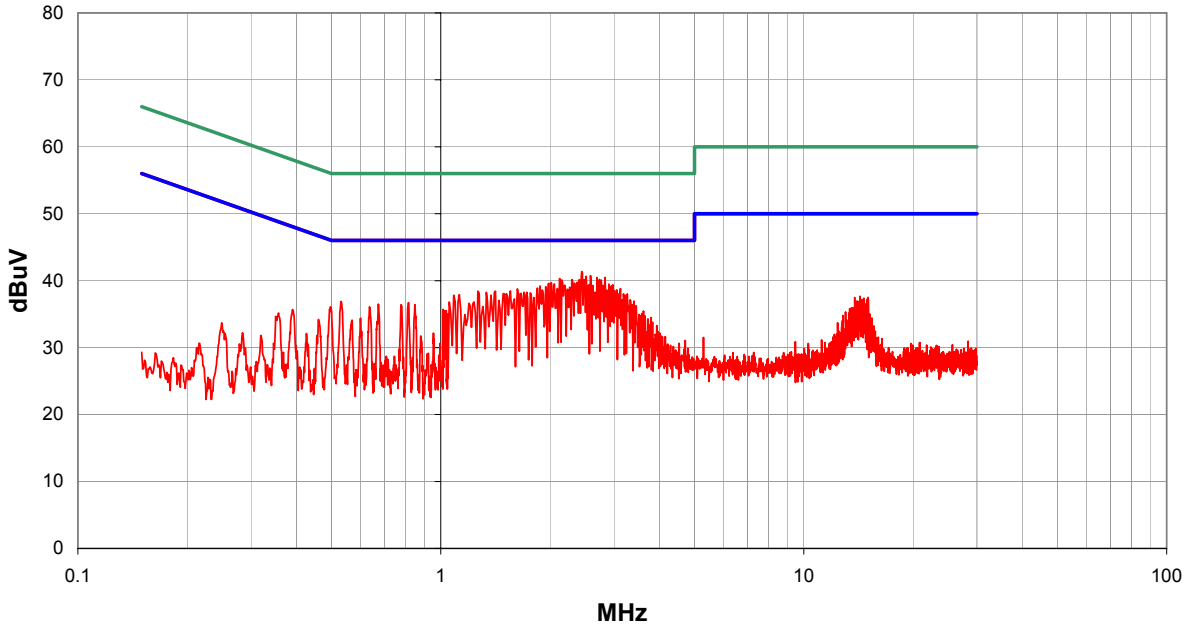
RESULTS

Pass	Line	Run #
	N	2

Other

Holly Ashkannejhad

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)
2.446	20.9	0.0	0.4	20.0		41.3	46.0	-4.7
2.586	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.516	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.836	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.696	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.126	19.9	0.0	0.4	20.0		40.3	46.0	-5.7
2.736	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.306	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
2.156	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
2.766	19.6	0.0	0.5	20.0		40.1	46.0	-5.9
2.016	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
1.985	19.2	0.0	0.4	20.0		39.6	46.0	-6.4
2.906	19.0	0.0	0.5	20.0		39.5	46.0	-6.5
2.976	18.9	0.0	0.5	20.0		39.4	46.0	-6.6
2.556	18.9	0.0	0.5	20.0		39.4	46.0	-6.6
2.946	18.7	0.0	0.5	20.0		39.2	46.0	-6.8
1.875	18.8	0.0	0.4	20.0		39.2	46.0	-6.8
1.945	18.7	0.0	0.4	20.0		39.1	46.0	-6.9
2.266	18.6	0.0	0.4	20.0		39.0	46.0	-7.0

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS			
Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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
 Radio in Host PC

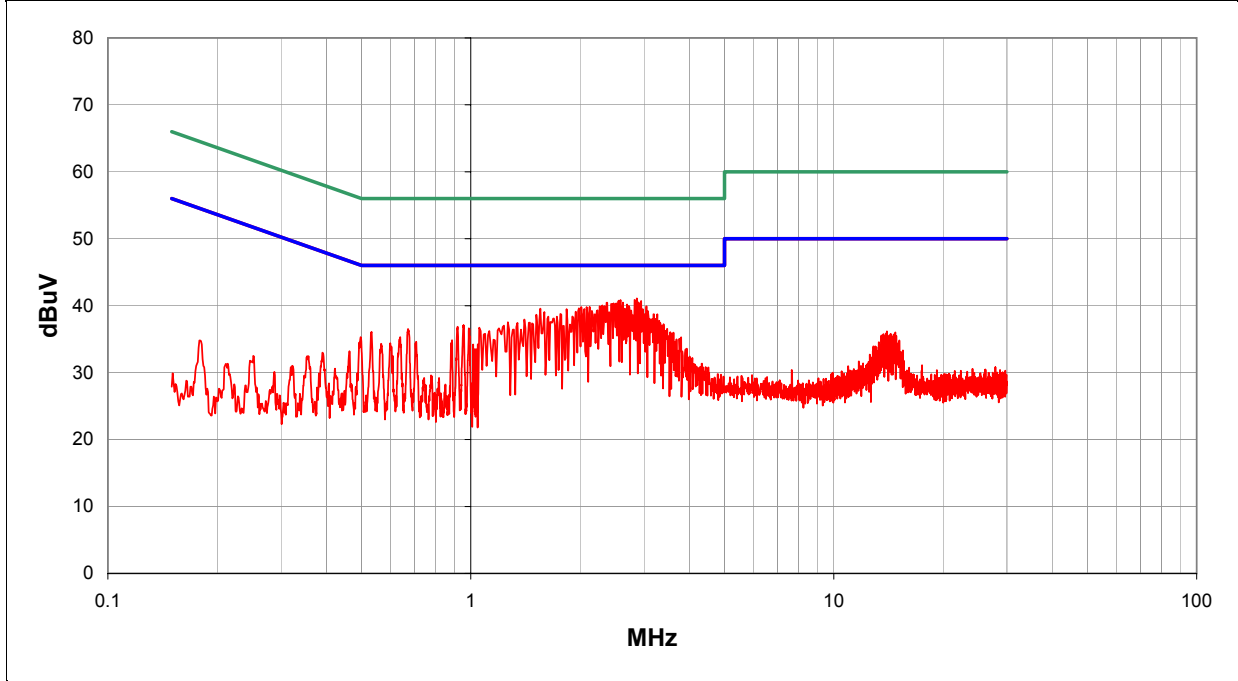
EUT OPERATING MODES
 Transmitting 802.11(g), 6Mbps, Mid Channel.

DEVIATIONS FROM TEST STANDARD
 No deviations.

RESULTS	Line	Run #
Pass	L1	3

Other


 Tested By:



Freq (MHz)	Amplitude (dBuV)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Detector (blank equal peaks [PK] from scan)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
2.866	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.826	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.586	20.4	0.0	0.5	20.0		40.9	46.0	-5.1
2.556	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.946	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.896	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.626	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.376	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.456	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.696	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
3.046	19.4	0.0	0.5	20.0		39.9	46.0	-6.1
2.126	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.086	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.016	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
1.985	19.2	0.0	0.4	20.0		39.6	46.0	-6.4
1.555	19.2	0.0	0.4	20.0		39.6	46.0	-6.4
1.835	19.1	0.0	0.4	20.0		39.5	46.0	-6.5
2.236	18.9	0.0	0.4	20.0		39.3	46.0	-6.7
3.076	18.7	0.0	0.5	20.0		39.2	46.0	-6.8

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(g), 6Mbps, Mid Channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

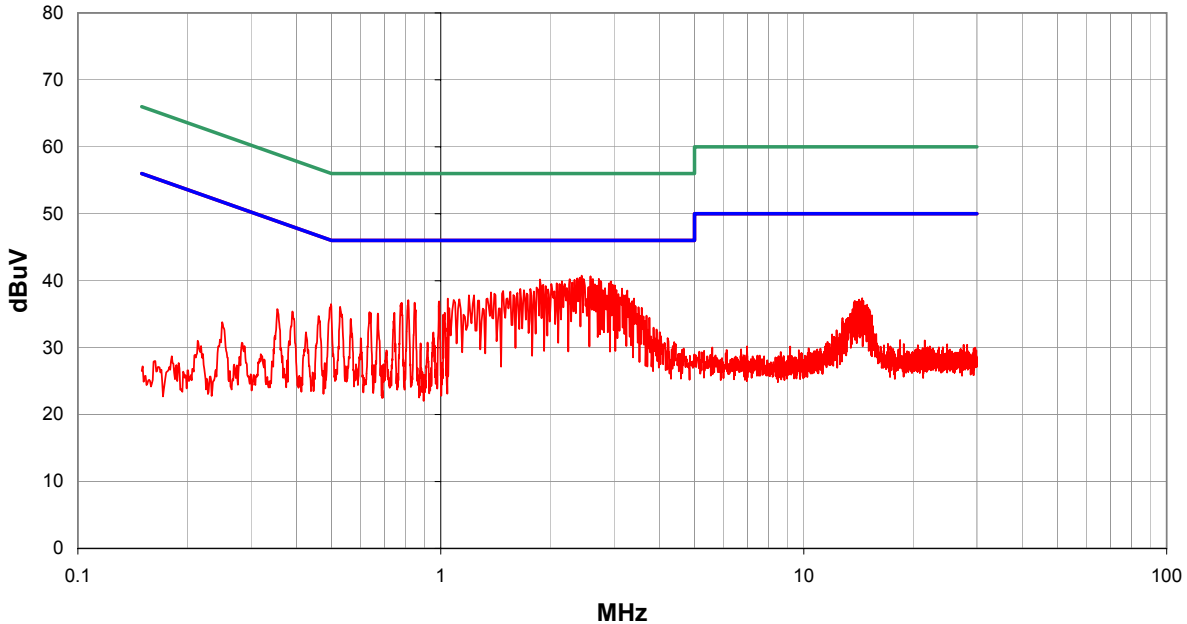
RESULTS

Pass	Line	Run #
	N	4

Other

Holly Ashkannejhad

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)
2.446	20.3	0.0	0.4	20.0		40.7	46.0	-5.3
2.586	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.416	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.726	19.8	0.0	0.5	20.0		40.3	46.0	-5.7
2.476	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.266	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
1.875	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.756	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.156	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
2.946	19.4	0.0	0.5	20.0		39.9	46.0	-6.1
2.086	19.2	0.0	0.4	20.0		39.6	46.0	-6.4
2.906	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
2.126	19.1	0.0	0.4	20.0		39.5	46.0	-6.5
2.016	19.1	0.0	0.4	20.0		39.5	46.0	-6.5
1.915	19.0	0.0	0.4	20.0		39.4	46.0	-6.6
3.016	18.8	0.0	0.5	20.0		39.3	46.0	-6.7
1.945	18.8	0.0	0.4	20.0		39.2	46.0	-6.8
2.836	18.4	0.0	0.5	20.0		38.9	46.0	-7.1
3.156	18.3	0.0	0.5	20.0		38.8	46.0	-7.2

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(g), 6Mbps, High Channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

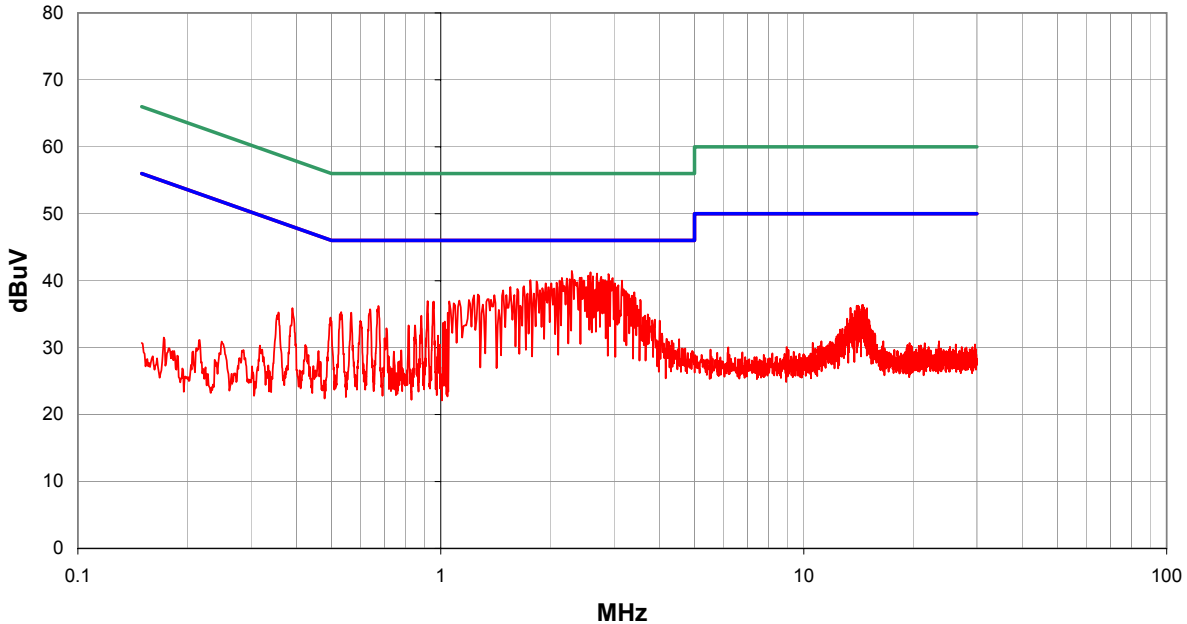
RESULTS

Pass	Line	Run #
Pass	L1	5

Other

Holly Ashkannejhad

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)
2.296	21.0	0.0	0.4	20.0		41.4	46.0	-4.6
2.586	20.8	0.0	0.5	20.0		41.3	46.0	-4.7
2.696	20.6	0.0	0.5	20.0		41.1	46.0	-4.9
2.896	20.5	0.0	0.5	20.0		41.0	46.0	-5.0
2.546	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.626	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.766	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
2.446	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.156	20.0	0.0	0.4	20.0		40.4	46.0	-5.6
2.976	19.9	0.0	0.5	20.0		40.4	46.0	-5.6
2.266	19.8	0.0	0.4	20.0		40.2	46.0	-5.8
2.836	19.6	0.0	0.5	20.0		40.1	46.0	-5.9
1.765	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
3.156	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.126	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
2.866	19.4	0.0	0.5	20.0		39.9	46.0	-6.1
1.835	19.5	0.0	0.4	20.0		39.9	46.0	-6.1
2.086	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
3.016	19.1	0.0	0.5	20.0		39.6	46.0	-6.4

EUT:	802MIAG-CV60	Work Order:	ITRM0039
Serial Number:		Date:	09/07/04
Customer:	Intermec Technologies Corporation	Temperature:	75
Attendees:	none	Humidity:	41%
Cust. Ref. No.:		Barometric Pressure:	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	2001

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

Radio in Host PC

EUT OPERATING MODES

Transmitting 802.11(g), 6Mbps, High Channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

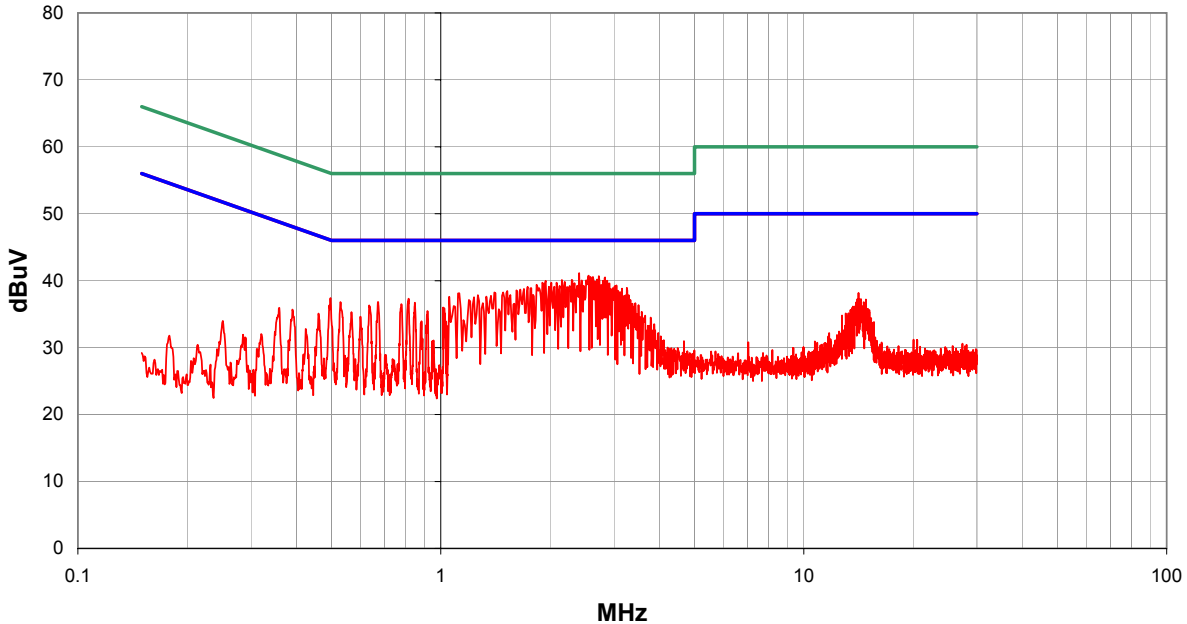
RESULTS

Pass	Line	Run #
	N	6

Other

Holly Ashkannejhad

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)
2.406	20.7	0.0	0.4	20.0		41.1	46.0	-4.9
2.556	20.3	0.0	0.5	20.0		40.8	46.0	-5.2
2.726	20.2	0.0	0.5	20.0		40.7	46.0	-5.3
2.626	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
2.586	20.1	0.0	0.5	20.0		40.6	46.0	-5.4
2.836	20.0	0.0	0.5	20.0		40.5	46.0	-5.5
2.696	19.7	0.0	0.5	20.0		40.2	46.0	-5.8
2.296	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
2.156	19.7	0.0	0.4	20.0		40.1	46.0	-5.9
1.945	19.6	0.0	0.4	20.0		40.0	46.0	-6.0
2.876	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.796	19.5	0.0	0.5	20.0		40.0	46.0	-6.0
2.196	19.4	0.0	0.4	20.0		39.8	46.0	-6.2
2.086	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
2.016	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
1.905	19.3	0.0	0.4	20.0		39.7	46.0	-6.3
2.916	19.1	0.0	0.5	20.0		39.6	46.0	-6.4
2.766	18.9	0.0	0.5	20.0		39.4	46.0	-6.6
3.046	18.8	0.0	0.5	20.0		39.3	46.0	-6.7

