

Exhibit X: Output Power

FCC ID: HN2EASYLAN

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:

Max Modulation

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

120 VAC, 60 Hz.

Software\Firmware Applied During Test

Exercise software	Windows 98 Hyperterminal	Version	Unknown
Description			
Windows 98 Hyperterminal was used to communicate with the RF module embedded firmware.			

Equipment Modifications

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

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EASYLAN installed in Printer	Intermec	4440	2019900103

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	2.1	No	Printer	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	Hewlett-Packard	8593E	AAA	04/08/2002	12 mo

Test Description

Requirement: Per 47 CFR 15.247(b)(1), the maximum peak output power must not exceed 1 Watt. The measurement is made using either a peak power meter, or a spectrum analyzer.

If a spectrum analyzer is used, the resolution bandwidth must be set to greater than the 6 dB bandwidth of the modulated carrier, and the video bandwidth set to greater than or equal to the resolution bandwidth. If the largest resolution bandwidth is less than the 6 dB bandwidth of the modulated carrier, the analyzer band power function can be used with these settings:

- Set RBW = VBW = Max
- Set Channel Bandwidth = Bandwidth of modulated carrier plus the resolution bandwidth
- Set Frequency Span just large enough to capture emission
- User peak detector only – set to max hold

(This alternate method was presented by Joe Dichoso of the FCC's OET Division at an FCC Workshop for TCBs, Feb 14, 2002)

Configuration: The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate and maximum output power.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

Completed by:



NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: EASYLAN			Work Order: INMC0015		
Serial Number: 072603-001			Date: 05/08/02		
Customer: INTERMEC Corp.			Temperature: 23 degrees C		
Attendees: none		Tested by: Greg Kiemel		Humidity: 31% RH	
Customer Ref. No.: N/A		Power: 120V, 60 Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(b)(1)		Year: Most Current		Method: FCC 97-114, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
Maximum Output Power at Maximum Data Rate					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum peak conducted output power does not exceed 1 Watt					
RESULTS			AMPLITUDE		
Pass			22.4 mW		
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Output Power - Low Channel					

17:18:31 MAY 08, 2002

HP

MRK 2.41354 GHz

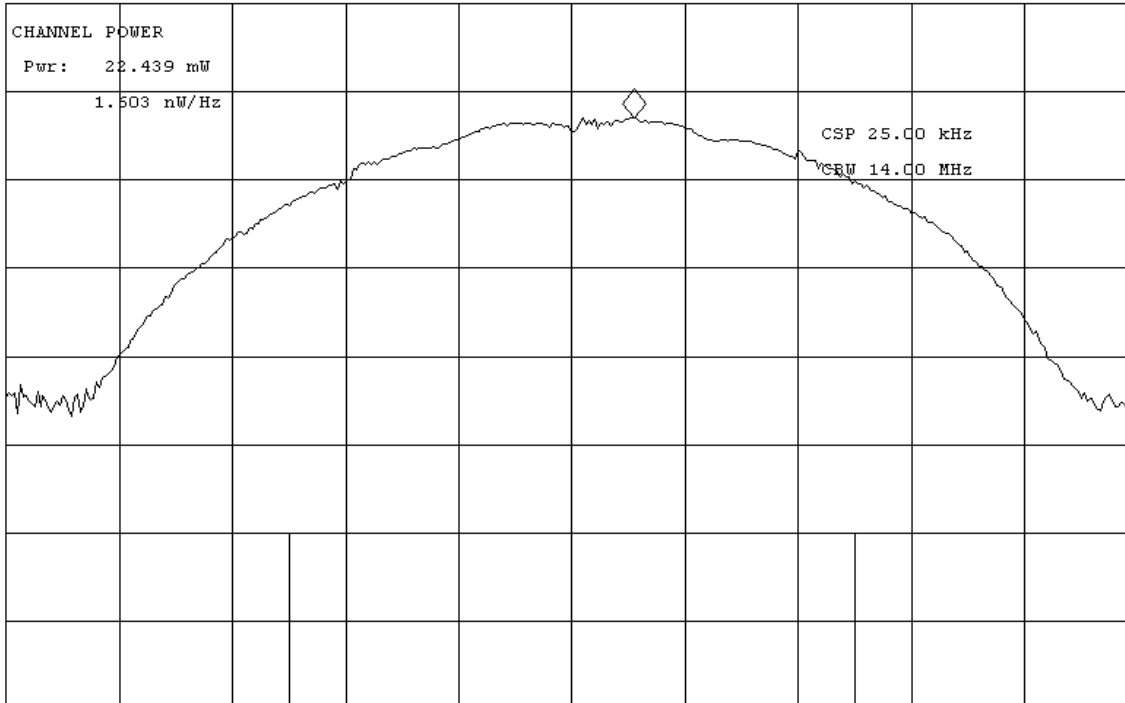
REF 200.0 mW

AT 20 dB

10.233 mW

No us
Me:

SMPL



CENTER 2.41200 GHz

SPAN 28.00 MHz

#RES BW 3.0 MHz

#VBW 3 MHz

SWP 20.0 msec

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: EASYLAN			Work Order: INMC0015		
Serial Number: 072603-001			Date: 05/08/02		
Customer: INTERMEC Corp.			Temperature: 23 degrees C		
Attendees: none		Tested by: Greg Kiemel		Humidity: 31% RH	
Customer Ref. No.: N/A		Power: 120V, 60 Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(b)(1)		Year: Most Current		Method: FCC 97-114, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
Maximum Output Power at Maximum Data Rate					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum peak conducted output power does not exceed 1 Watt					
RESULTS			AMPLITUDE		
Pass			18.5 mW		
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Output Power - Mid Channel					

17:43:13 MAY 08, 2002

REF 200.0 mW

AT 20 dB

No us:
Me:

SMPL

LOG

10

dB/

OFFST

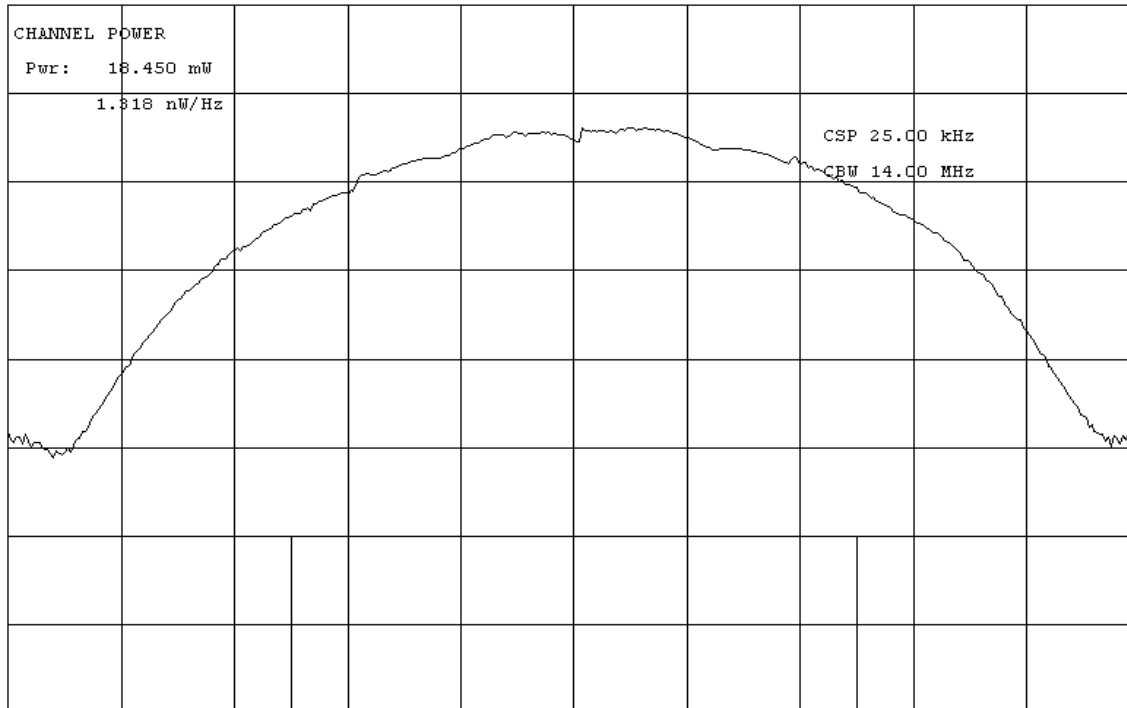
21.5

dB

MA SB

SC FC

CORR



CENTER 2.44200 GHz

SPAN 28.00 MHz

#RES BW 3.0 MHz

#VBW 3 MHz

SWP 20.0 msec

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: EASYLAN			Work Order: INMC0015		
Serial Number: 072603-001			Date: 05/08/02		
Customer: INTERMEC Corp.			Temperature: 23 degrees C		
Attendees: none		Tested by: Greg Kiemel		Humidity: 31% RH	
Customer Ref. No.: N/A		Power: 120V, 60 Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(b)(1)		Year: Most Current		Method: FCC 97-114, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
Maximum Output Power at Maximum Data Rate					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum peak conducted output power does not exceed 1 Watt					
RESULTS			AMPLITUDE		
Pass			17.1 mW		
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Output Power - High Channel					

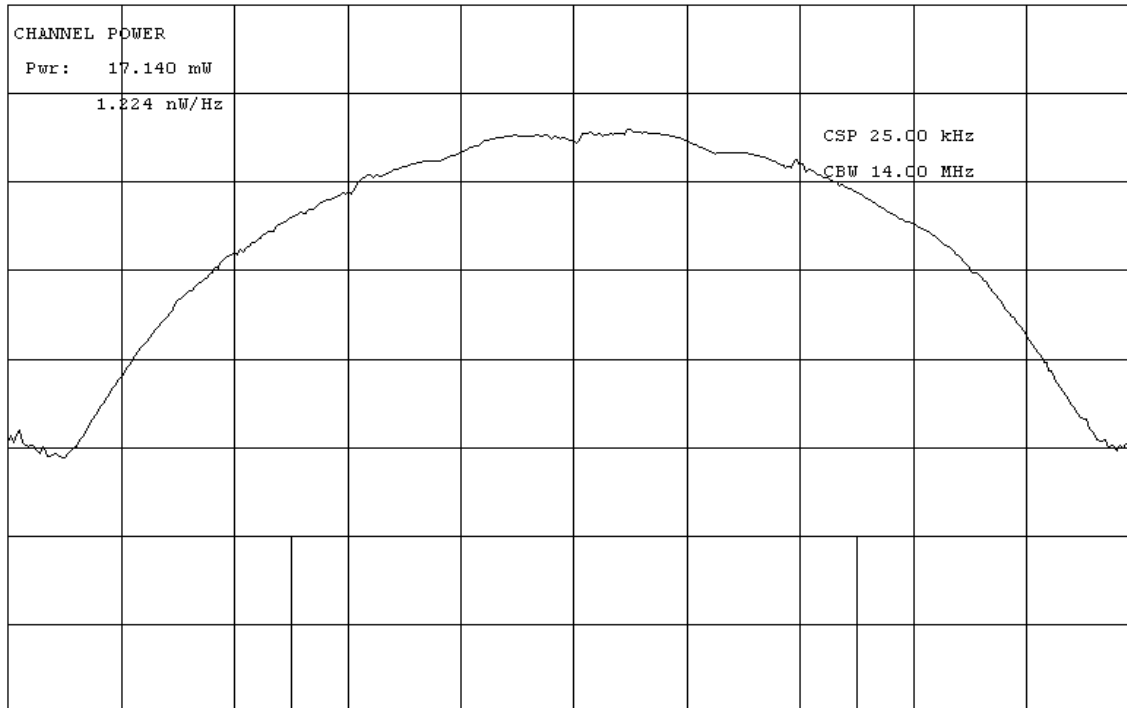
17:50:06 MAY 08, 2002

REF 200.0 mW

AT 20 dB

No us:
Me:

SMPL



CENTER 2.46200 GHz

SPAN 28.00 MHz

#RES BW 3.0 MHz

#VBW 3 MHz

SWP 20.0 msec