

Exhibit Q: Peak Output Power

FCC ID: HN2PC24-11

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:

Low
Mid
High

Operating Modes Investigated:

Typical

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

5VDC

Software\Firmware Applied During Test

Exercise software	FCCTST24.BIN	Version	Unknown
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Description

The system was tested using the FCCTST24.BIN software to exercise the functions of the device during the testing.

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
EUT-PCMCIA Card	INTERMEC	P24-11-FC/R	02UT34371446
Extender Card	Swart Interconnect	EXT-PCM-68-SM3	060501-212
Host Device	INTERMEC	2435	27300200205
5VDC Adapter	INTERMEC	0-302029-01	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
5VDC power	No	1.9	PA	5VDC Adapter	EUT

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	8594E	AAD	05/31/2002	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

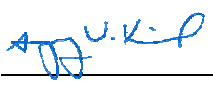
(This alternate method was presented by Joe Dichoso of the FCC's OET Division at an FCC Workshop for TCBs, Feb 14, 2002)

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:



EMISSIONS DATA SHEET				Transmitters
NORTHWEST EMC		Output Power		
EUT: PC24-11-FC/R		Work Order: INMC0036		
Serial Number: 02UT34371446		Date: 12/05/02		
Customer: INTERMEC Corporation		Temperature: 22 °C		
Attendees: None		Humidity: 41%		
Customer Ref. No.: None		Bar. Pressure: 30.12		
Tested by: Greg Kiemel		Power: 5VDC		Job Site: EV01
TEST SPECIFICATIONS				
Specification: 47 CFR 15.247(b)(1)		Year: Most Current		Method: FCC 97-114, ANSI C63.4
				Year: 1992
SAMPLE CALCULATIONS				
COMMENTS				
EUT OPERATING MODES				
Maximum output power at maximum data rate				
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
Maximum peak conducted output power does not exceed 1 Watt				
RESULTS				
Pass		AMPLITUDE 37.4 mW		
SIGNATURE				
 Tested By: _____				
DESCRIPTION OF TEST				
Low Channel				

13:42:01 DEC 05, 2002

REF 200.0 mW

AT 20 dB

SMPL

LOG
10

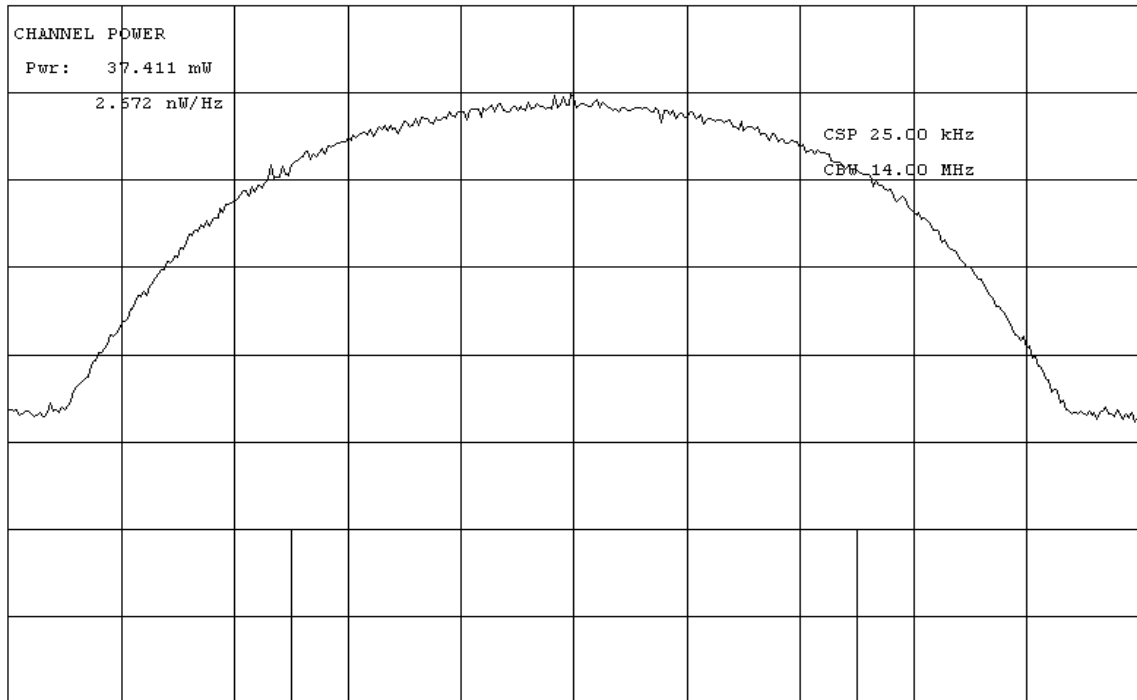
dB/

OFFST
21.5

dB

MA SB
SC FC

CORR



CENTER 2.41200 GHz

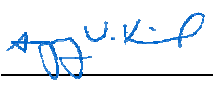
SPAN 28.00 MHz

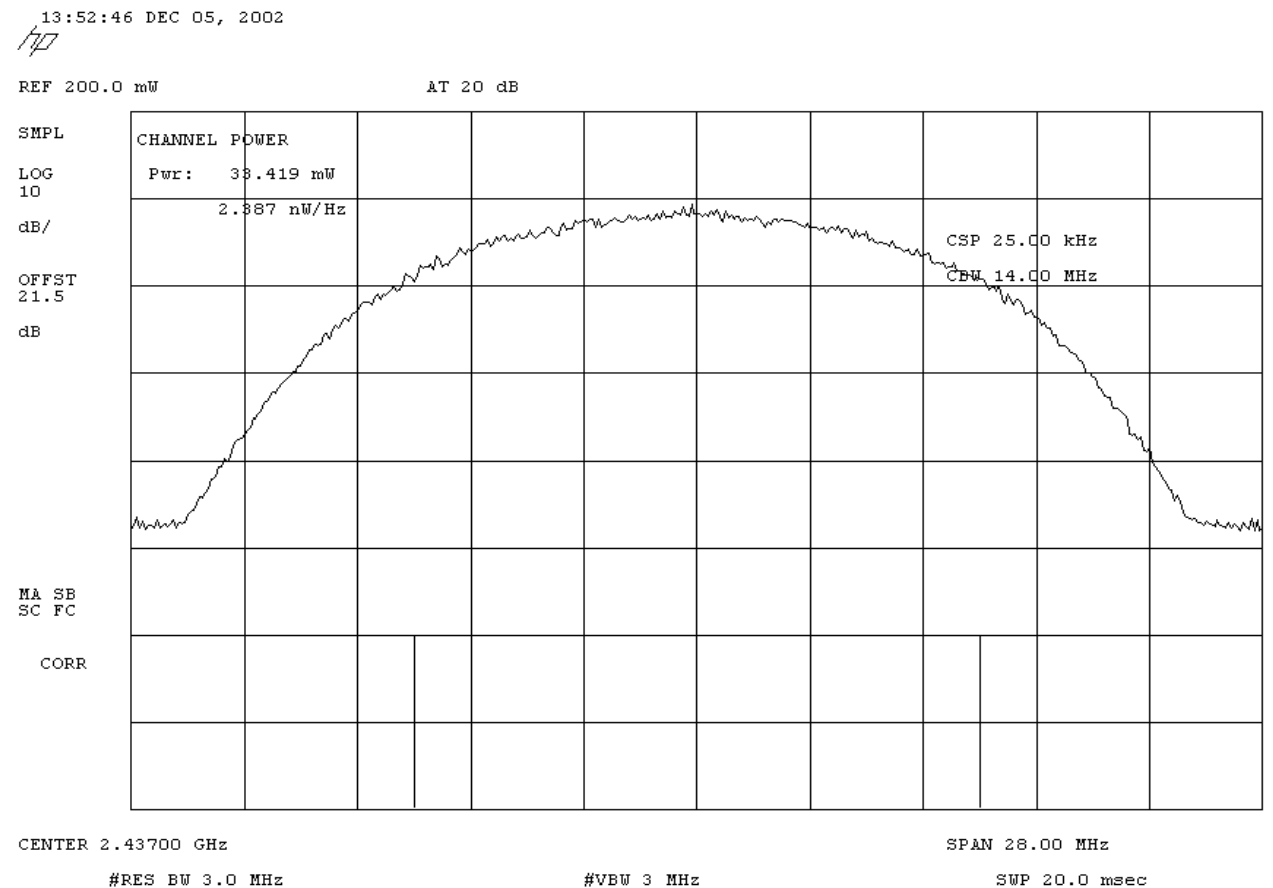
#RES BW 3.0 MHz

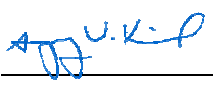
#VBW 3 MHz

SWP 20.0 msec

No use
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EMISSIONS DATA SHEET			
Output Power		Transmitters	
NORTHWEST EMC		Rev df11/15/02	
EUT: PC24-11-FC/R	Work Order: INMC0036		
Serial Number: 02UT34371446	Date: 12/05/02		
Customer: INTERMEC Corporation		Temperature: 22 °C	
Attendees: None		Humidity: 41%	
Customer Ref. No.: None		Bar. Pressure: 30.12	
Tested by: Greg Kiemel	Power: 5VDC	Job Site: EV01	
TEST SPECIFICATIONS			
Specification: 47 CFR 15.247(b)(1)	Year: Most Current	Method: FCC 97-114, ANSI C63.4	Year: 1992
SAMPLE CALCULATIONS			
COMMENTS			
EUT OPERATING MODES			
Maximum output power at maximum data rate			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum peak conducted output power does not exceed 1 Watt			
RESULTS		AMPLITUDE	
Pass		33.4 mW	
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
Mid Channel			



EMISSIONS DATA SHEET			
Output Power		Transmitters	
NORTHWEST EMC		Rev df11/15/02	
EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	12/05/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	41%
Customer Ref. No.:	None	Bar. Pressure:	30.12
Tested by:	Greg Kiemel	Power:	5VDC
Job Site:	EV01		
TEST SPECIFICATIONS			
Specification:	47 CFR 15.247(b)(1)	Year:	Most Current
Method:	FCC 97-114, ANSI C63.4	Year:	1992
SAMPLE CALCULATIONS			
COMMENTS			
EUT OPERATING MODES			
Maximum output power at maximum data rate			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum peak conducted output power does not exceed 1 Watt			
RESULTS			
Pass		AMPLITUDE 31.9 mW	
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
High Channel			

