# Exhibit R: Spurious Radiated Emissions for Radio Outside of Printer

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 Modulated

Antennas Investigated:
Dipole
Omni
Patch

Data Rates Investigated:	
Maximum – only one data rate available	
Output Power Setting(s) Investigated:	
Maximum – only one power level available	

## Power Input Settings Investigated:

120 VAC, 60 Hz for host device (printer).

Frequency Range Inv	vestigated		
Start Frequency	30 MHz	Stop Frequency	26 GHz

Software\Firmware A	Applied During Test		
Exercise software	Windows 98 Hyperterminal	Version	Unknown
Description			
Windows 98 Hypertermina	I was used to communicate	e with the RF module embe	dded firmware.

### **Equipment Modifications**

The following modifications were made to achieve compliance: a) Copper tape was added along the edge of the back RF shield, and b) copper tape was added near the rear I/O mounting screw.



## EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EASYLAN (EUT) installed outside of	Troy Group, Inc.	00-40-17-OB-74-94	00750740
printer.			
Printer	INTERMEC	3400E400	E7/199
Dipole antenna	Centurion Inc.	066147	N/A
Patch antenna	Xertex Technologies	067262	102955
Omni Antenna	Cushcraft	063363	N/A

## Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Antenna Adapter	Yes	.31	No	RF Server	Cushcraft Omni- Directional Antenna / Xertex Patch Antenna
AC Power	No	2.1	No	RF Server	AC Mains
DA = Cabla is normanan	thy attached	to the device Chi	alding and/a	r processo of formite r	aay ha unknown

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	8566B	AAL	03/19/2002	12 mo
Antenna, Biconilog	EMCO	3141	AXE	12/31/2001	12 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	12/03/2001	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	11/26/2001	12 mo
Antenna, Horn	EMCO	3115	AHC	08/24/2001	12 mo
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	24 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	01/17/2000	36 mo
Antenna, Horn	EMCO	3115	AHJ	05/16/2001	12 mo
High Pass Filter	RLC Electronics	F-100-4000-5-R (HPF>	HFD	02/04/2002	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**: Each 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 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
Measurements were made	using the bandwidths and o	letectors specified. No video	o filter was used except for
	average measuren	ients above 1 GHz.	

Completed by: Completed by: Rocky to Relenge



EMC         OALS DATA SHEET         Oracle 2002           Image: Control of the state of the s	NOR	THWEST									0111					REV	
Unit         EUT:         EASYLAN Installed Outside of Printer         Work Oracle 10ML0061 (5070-0)           Castoneer, INTERNEC Corporation         Tested by: [Rod Peloquin         Humber, 12 (1910-10-1)           Attendees:         None         Tested by: [Rod Peloquin         Humber, 12 (1910-10-1)           Specification:         Power, 120VAC/60Hz         Job Site; EV01         Specification:           Specification:         PCC 15.209         Year; 2201         Method; Alks CS.4           Method; Alks CS.4         Year; 2201         Year; 1992         Method; Alks CS.4           PLE CALCULATIONS         Method; Alks CS.4         Year; 1992         Method; Alks CS.4         Year; 1992           Attendees:         Method; Alks CS.4         Tested by: [Rod Peloty: Factor + Cable Altenuator         Method; Alks CS.4           Method; Alks CS.4         Method; Alks CS.4         Year; 2001         Year; 2001           Method; Alks CS.4         Method; Alks CS.4         Year; 2001         Year; 2001           Method; Alks CS.4         Method; Alks CS.4         Year; 2001         Year; 2001           Method; Alks CS.4         Tested By:         Year; 2001         Year; 2001           Method; Alks CS.4         Tested By:         Tested By:         Year; 2001           Motho; Year; 2001         Year; 2001<	E	MC						<b>OA</b>	ISL	ϽΑΙΑ	SHE	:EI				df1.8	
Image: TSP740         Date: P1102 10.41           Customer: TIVERNEC Corporation         Tested by: Rod Peloquin         Humdrid: 237.4           Attendes: None         Power: [20VAC/GHz         Job Site: [2V01           SPECIFICATION: S         Power: [120VAC/GHz         Job Site: [2V01           SPECIFICATION: Corporation         Year: [302         Year: [392           Mathematic: Ford ANSI C63.4         Year: [392         Year: [392           Ide of Internation: Ford Stemps - Measure Level + Attender Factor - Cade Allowation Factor - Real Allowater         Year: [392           Ide of Internation: Ford Stemps - Measure Level + Attender Factor - Cade Allowater Factor - Cade Allowater         Factor Allowater           SPECIFICATION: FOR Stemps - Measure Level + Attender Factor - Cade Allowater         Factor Allowater           Stemps - Mathematic Top Stemps - Measure Level + Attender Factor - Cade Allowater         Factor Allowater           Stemps - Mathematic Top Stemps - Measure Level + Attender Factor - Cade Allowater         Factor Allowater           Stemps - Mathematic Allowater         Stemps - Measure Allowater         Factor Allowater           Stemps - Mathematic Allowater         Stemps - Measure Allowater         Factor Allowater           Stemps - Mathematic Allowater         Stemps - Measure Allowater         Factor Allowater           Stemps - Mathematic Allowater         Stemps - Measure Allowater		EL	JT:	FASYL	AN In	stalled (	Outside of I	Printer					N N	ork Order:	INMC0015	03/21/200	
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Attendes:         None         Tested by:         Hundlify:         28%           SPECIFICATION:         Second and the second attended attende		Custom	er:	INTERN	IEC C	Corporat	ion						Те	mperature:	72		
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		12376.0	000	4	6.2	12.3	290.0	1.0	1.0	0.0	H-Horn	PK	0.0	58.5	83.5	-25.0	
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		407	5.483		43.	3		4.7		327	7.0		1.5		3.	0	(	0.0	H-Ho	rn	A	V		0.0		48.0		54.0	-6.0
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		417	5.483		48.	4		4.8		303	3.0		1.3		3.	0	(	0.0	H-Ho	rn	P	K		0.0		53.2		74.0	-20.8
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