Time of Occupancy (Dwell Time)

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. 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:
Mid

Operating Modes Investigated:
Typical hopping mode.

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	Standard Production Software	Version	Unknown
Description			
The system was tested using standard operating production 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
Host System	SpaceLabs Medical	90310-1A	PAR327-1
EUT	Proxim	6330	A30549980020A6386465
Ethernet Board	SpaceLabs Medical	670-0829-00	N3112-95B-040
Power Supply	SpaceLabs Medical	90486	486-101522

Northwest EMC

Time of Occupancy (Dwell Time)

Revision 2/4/02

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8	No	Power Supply	AC Mains
DC Power	Yes	.96	Yes	Power Supply	Host System

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

Measurement Equipment

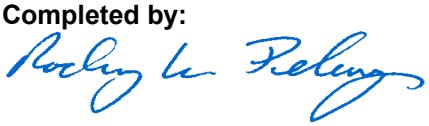
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	12 mo

Test Description

Requirement: Per 47 CFR 15.247(a)(1)(ii), the average time of occupancy on any frequency must not be greater than 0.4 seconds within a 30 second period. The measurement is made with the spectrum analyzer's span set to zero, the resolution bandwidth set to 1 MHz, and the video bandwidth set to 7 MHz. The measurement is made in two steps. First, the sweep speed is adjusted to capture the pulse width or dwell time of a single transmission. Then, the sweep speed is set to 30 seconds to count the number of transmissions during that period. The dwell time of a single transmission multiplied by the number of transmissions during a 30 second period equals the average time of occupancy during a 30 second period.

Configuration: The average dwell time per hopping channel was measured at one hopping channel in the middle of the authorized band. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The hopping function of the EUT was enabled.

Completed by:



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	6330			Work Order:	SPAC0264
Serial Number:	A30549980020A6386465			Date:	07/16/01
Customer:	SpaceLabs			Temperature:	23 degrees C
Attendees:	N/A	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	120 V, 60 Hz	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(a)(1)(ii)	Year:	Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Total Dwell time = (Dwell Time during a single transmission) X (Number of transmissions during a 30 second period)

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate. Hopping carrier.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

In acquisition mode, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

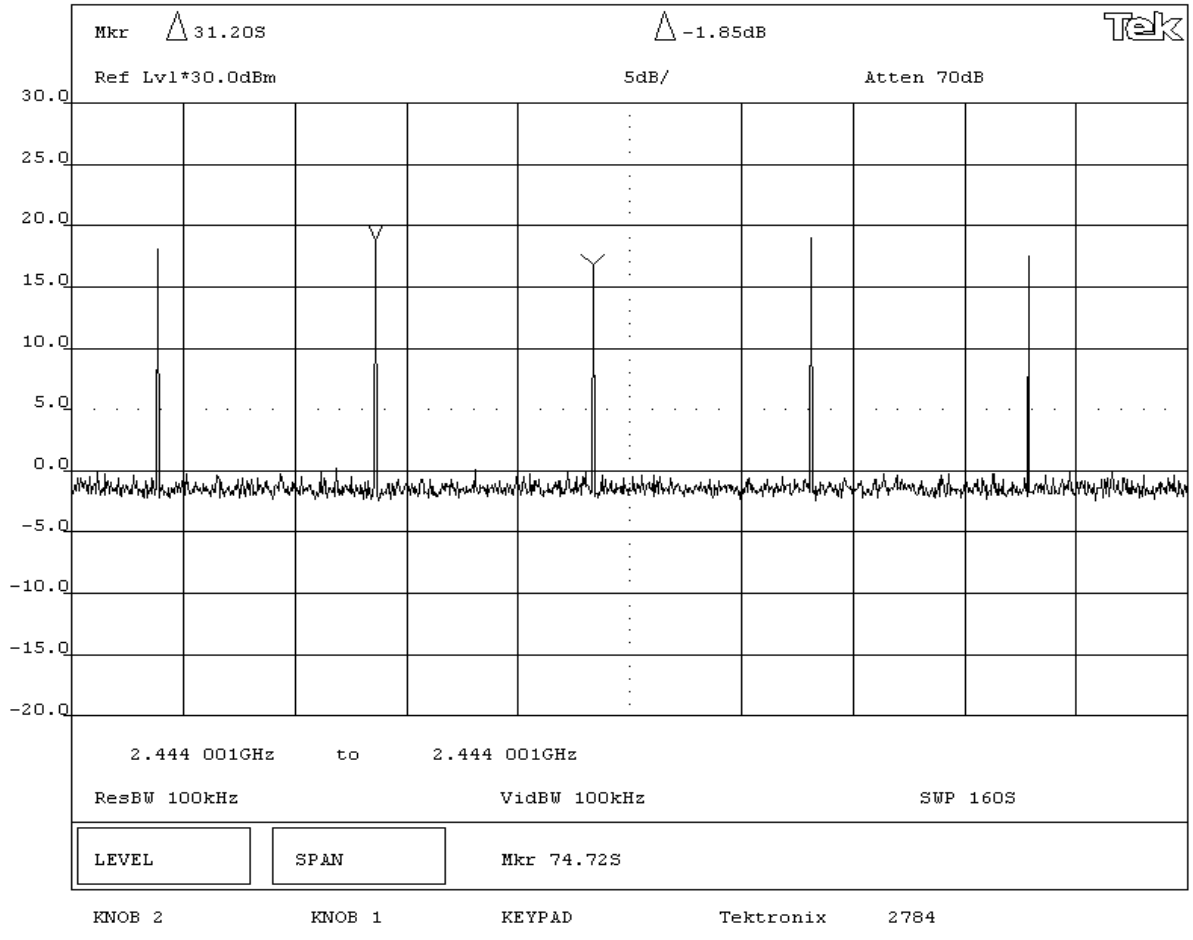
RESULTS	NUMBER OF TRANSMISSIONS DURING A 30 SECOND PERIOD
Pass	1

SIGNATURE

Tested By: A.J. U.K.P

DESCRIPTION OF TEST

Number of transmissions during a 160 second period



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	6330			Work Order:	SPAC0264
Serial Number:	A30549980020A6386465			Date:	07/16/01
Customer:	SpaceLabs			Temperature:	23 degrees C
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TEST SPECIFICATIONS

Specification:	47 CFR 15.247(a)(1)(ii)	Year:	Most Current	Method:	DA 00-705, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Total Dwell time = (Dwell Time during a single transmission) X (Number of transmissions during a 30 second period)

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate. Hopping carrier.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

In acquisition mode, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

RESULTS	DWELL TIME DURING A SINGLE TRANSMISSION
Pass	26.8 mS

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Dwell Time During a Single Transmission