

Exhibit N: Field Strength of Fundamental (revised 7/31/02)

FCC ID: CM676A91343-600

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

Low

Operating Modes Investigated:

Typical

Antennas Investigated:

Integral

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

Battery

Frequency Range Investigated

Start Frequency	608 MHz	Stop Frequency	614 MHz
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Software\Firmware Applied During Test

Exercise software	Standard Production Software	Version	Unknown
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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
EUT	SpaceLabs Medical	91343-05	P025
Shorting bar	SpaceLabs Medical	N/A	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
ECG Leads (5)	No	.61	No	EUT	Shorting bar
Patient cable1	No	1.5	No	EUT	Unterminated
Patient cable2	No	1.7	No	EUT	Unterminated

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
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	03/19/2002	12 mo
Antenna, Biconilog	EMCO	3141	AXE	12/31/2001	12 mo

Test Description

Requirement: The field strength of the fundamental radiated emission shall meet the limits as defined in 47 CFR 95.1115. Field strength limits are specified at a distance of 3 meters. Below 960 MHz, measurements are made using instrumentation with a CISPR quasi-peak detector. Above 960 MHz, measurements are made using instrumentation with an averaging detector and a 1 MHz bandwidth.

Configuration: The antenna to be used with the EUT was tested. The EUT was transmitting while set at the lowest and highest channels available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:1992).

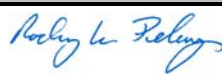
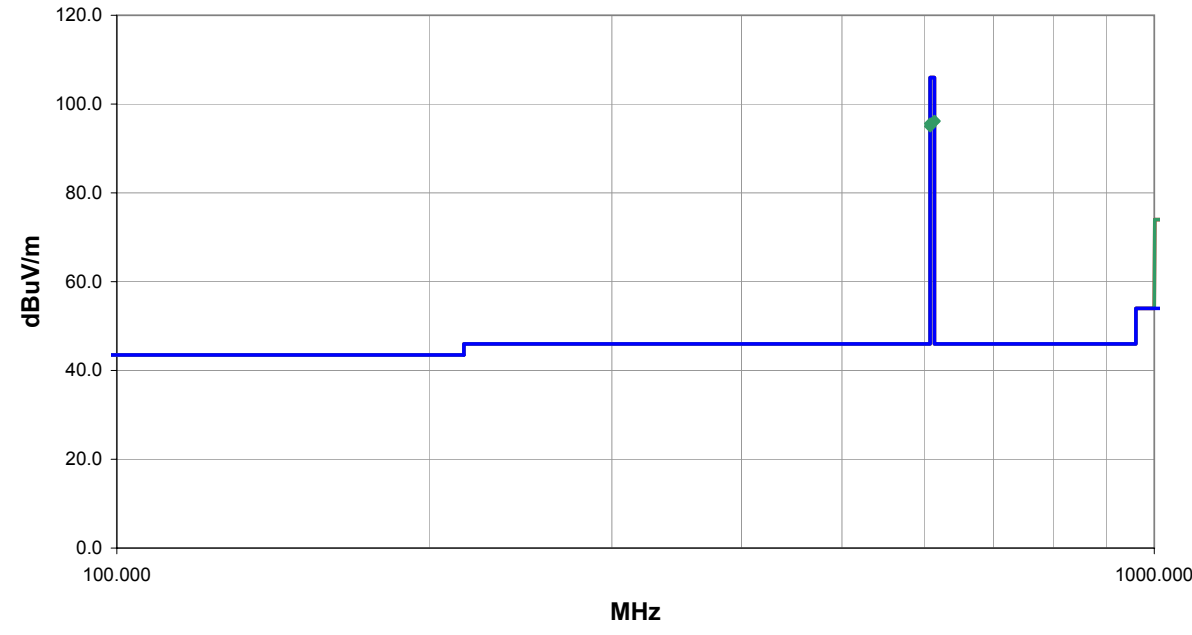
Bandwidths Used for Measurements



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 detectors specified. No video filter was used.

Completed by:



NORTHWEST EMC										OATS DATA SHEET				REV d12.02 05/20/2002	
EUT: 91343-05						Work Order: SPAC0306									
Serial Number: PO25						Date: 6/10/02 11:17									
Customer: SpaceLabs Medical, Inc.						Temperature: 75									
Attendees: None						Humidity: 46%									
Cust. Ref. No.:						Barometric Pressure: 29.9									
Tested by: Rod Peloquin				Power: 9VDC		Job Site: EV01									
TEST SPECIFICATIONS															
Specification: FCC 95_1115						Year: 2001									
Method: ANSI C63.4						Year: 1992									
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															
5 leadwires and shorting bar, two monitor probes															
EUT OPERATING MODES															
DEVIATIONS FROM TEST STANDARD															
No deviations.															
RESULTS															
Pass						Test Distance (m)		Run #							
						3		4							
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)			
613.963	74.4	21.8	188.0	1.5	3.0	0.0	H-Bilog	QP	0.0	96.2	106.0	-9.8			
613.967	74.3	21.8	210.0	1.0	3.0	0.0	V-Bilog	QP	0.0	96.1	106.0	-9.9			
608.061	73.9	21.7	222.0	1.0	3.0	0.0	V-Bilog	QP	0.0	95.6	106.0	-10.4			
608.067	73.3	21.7	136.0	1.4	3.0	0.0	H-Bilog	QP	0.0	95.0	106.0	-11.0			

NORTHWEST EMC										Apparent Power Data Sheet				REV df2.02 05/20/2002	
EUT: 91343-05					Work Order: SPAC0306										
Serial Number: PO25					Date: 6/10/02 11:17										
Customer: SpaceLabs Medical, Inc.					Temperature: 75										
Attendees: None					Humidity: 46%										
Cust. Ref. No.:					Barometric Pressure: 29.9										
Tested by: Rod Peloquin					Power: 9VDC					Job Site: EV01					
TEST SPECIFICATIONS															
Specification: FCC 95_1115										Year: 2001					
Method: ANSI C63.4										Year: 1992					
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															
5 leadwires and shorting bar, two monitor probes															
EUT OPERATING MODES															
DEVIATIONS FROM TEST STANDARD															
No deviations.															
RESULTS										Test Distance (m)		Run #			
Pass										3		4			
Other										 Tested By:					
															
Freq (MHz)		Azimuth (degrees)		Height (meters)		Polarity		EIRP (dBm)		EIRP (W)					
613.963		188.0		1.5		H-Bilog		-1.0		0.000795					
613.967		210.0		1.0		V-Bilog		-1.4		0.000728					
608.061		222.0		1.0		V-Bilog		-1.9		0.000652					
608.067		136.0		1.4		H-Bilog		-2.2		0.000603					