

Spacelabs Medical

91341-09 ULTRAVIEW® DIGITAL TELEMETRY TRANSMITTER

EUT INFORMATION

FCC ID: CM676A91341-1400

DATE: AUGUST 13, 2003

91341-09 Transmitter EUT Information

The following EUT Information is provided relating to the FCC submittal of our planned quantity production product the 91341-09 Digital Telemetry Transmitter:

This document contains the following information about the equipment under test (EUT):

a) Type of equipment tested:

Pre-production 91341-09 Digital Telemetry Transmitter

b) Modifications:

No modifications were made during testing that are required for FCC compliance.

c) Software / Firmware:

Firmware in the radio of this telemetry transmitter performs the following functions:

1. Configuration

- Translating channel selection DIP switch settings to programming the RF synthesizer for operating RF frequency.
- Initializing digital potentiometers to set peak deviation limits

2. RF Output Power Failsafe

- Checking for Invalid channel selections and loss of synthesized lock that will result in disabling the RF output to avoid operation on unauthorized frequencies.
- Detecting input battery voltage levels so as to disable RF output when these levels fall below the minimum usable level to assure specification compliance.

d) Type of emissions used:

The device has **F1D** emission.

e) Necessary Bandwidth as defined in 47CFR 2.202(b).

Necessary Bandwidth: Carson's Rule $2M + 2D$; where D = max modulation in Hz and M = peak deviation in Hz. $2(4096) + 2(3300) = 14792$ or 14.8 kHz.

f) The dc voltages applied to and dc currents into the several elements.

The final RF amplifier is supplied with a regulated voltage (3.0 VDC) and draws a current of 3.0 mA.

The RF oscillator is supplied with 3.0 VDC and draws a current of 3.0 mA.

All other circuit elements are supplied with 5.0 VDC and draw a current of 2.7 mA.

The total dc current into the unit is 8.7 mA.