FCC Part 15 Certification
Test Report

910.5MHz – 918.5MHz Multi-Channel Transmitter

FCC ID: RPE1000-7315

FCC Rule Part: 15.249

ACS Report Number: 04-0038-15C249

Manufacturer: VeriFiber, LLC.
Model: VT31XX

RF Exposure Information

General Information:

Applicant: VeriFiber
ACS Project: 04-0038
FCC ID: RPE 1000-7315
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Resonant Tank Circuit
Antenna Gain: -6dBi
Transmitter Conducted Power: -14.76dBm
Maximum System EIRP: -20.76dBm
Operating Configuration: Mounted where wireless sensing of temperature is required.
Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30xPxG}}{d} \qquad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for 916.5MHz Periodic Operated Transmitter Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	**Radio Power (dBm)**	**Power Density Limit (mW/Cm2)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**MPE Distance (cm)**
916.5	-14.76	0.61	-6	0.25	0.0331

Installation Guidelines
The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)
In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of (20cm)."

Conclusion
This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.