

Form 442 Question 7: Experimentation Description

0107-EX-ML-2014 (amended 7/11/14)

I4C Innovations Inc. is planning to design and test a new UWB radar transceiver to ensure consistency with the FCC's UWB rules under Part 15.

UWB radar transmitter operates using a 10 dB bandwidth between 3.1 and 8 GHz. Transmit pulse is a 4Vpp, 150 ps (FWHM) monocycle. PRF is selectable between 1 MHz and 20 MHz. No modulation.

Research and experimentation will include:

- Testing and development of UWB radio for interrogation of cervical cardio/pulmonary signatures
- Validation of safety and efficacy of UWB radio design for select basic vital sign monitoring
- Validation of use of UWB radio for basic cardio/pulmonary monitoring

Friends and Family Trial:

- Health band experimental units to be distributed to "friends and family" of i4C Innovations' employees to conduct testing on animals under natural conditions inside the home of the pet. In addition to the Friends and Family trial, we will be conducting demonstrations at five trade shows (the five fixed locations).
- I4C Innovations to maintain ownership and control over all experimental units. Full contact information for all trials participants will be kept to enable tracking, including address, phone, email.
- Instructions provided to trial participants to include requirement that the experimental units may not be used outside of 5 km radius of home.
- High likelihood that UWB capability will only be operational at fixed location within the trial participants' homes and only at night when animal is at rest. Timers, light sensor, and accelerometer are intended to verify that it is night and animal is resting before initiating UWB mode.
- UWB functionality can be disabled remotely as needed.
- i4C Innovations will collect all experimental units at the end of the trial.