Point Six , Inc.

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Dear Mr. Quinlan:

The Point Six, Inc. wireless iButton ID transmitter "WOWPIR" transmits a 15-16 millisecond packet each time an iButon is touched. This is identical to the data packet timing of a previously certified "M5ZWOW". I will restate this timing below.

The packet consists of transmitter-on/transmitter-off timing that represents the serial number of the iButton touched and the 16-bit serial number of the WOWPIR. The duty cycle is approximately 50%. The packet time can vary with serial number between 14-16 milliseconds. The packet data is controlled by a microprocessor whose timing is based on a ceramic resonator that is very stable. The packet below (figure #2) illustrates a typical data packet, the worst case, 16 milliseconds, cannot be shown because serial number would have to be forced to make this so. Figure #1 illustrates the overall timing; a packet is sent each time the iButton is touched. It is possible to touch more often then once each 10 seconds but this is not the intended use, in normal use the touches would be minutes apart at the most often.

The battery used during the tests was new and was a standard 3.0 Volt Lithium cell. The battery is a 3. Volt Lithium chemistry, which has a flat discharge curve from new to about 90% used. In this application the battery requires about 5 years to discharge to the point that it cannot be used or about 100,000 touche/transmissions. The battery was used for no other purpose and had operated in the test unit for only a short time when the test was performed. ✓

The label will be Flexcon 2 mil PM200S mylar with a Flexcon 1 mil PM100C Polyester laminate. ✓

John I. Compton
President, Point Six, inc.