Average time of occupancy for inquiry and page modes.

Inquire Mode
There are 32 Channels used in the inquiry mode (Figure 1). In a 13 second span, there are three blocks of transmission on a channel, each block spanning 2.553 seconds (Figure 2). During a block of transmission, there is a transmission every 10 msec (Figure 3). Thus there are 58.85 transmissions per second on a channel [(2.553 x 3) ÷ 13 ÷ .01]. In 30 seconds there would be a maximum of 1765.4 transmissions on a channel. Each transmission is 138.4 µs in duration. The maximum time on a channel in a thirty second span would be 244.3 ms vs. a limit of 400 ms maximum.

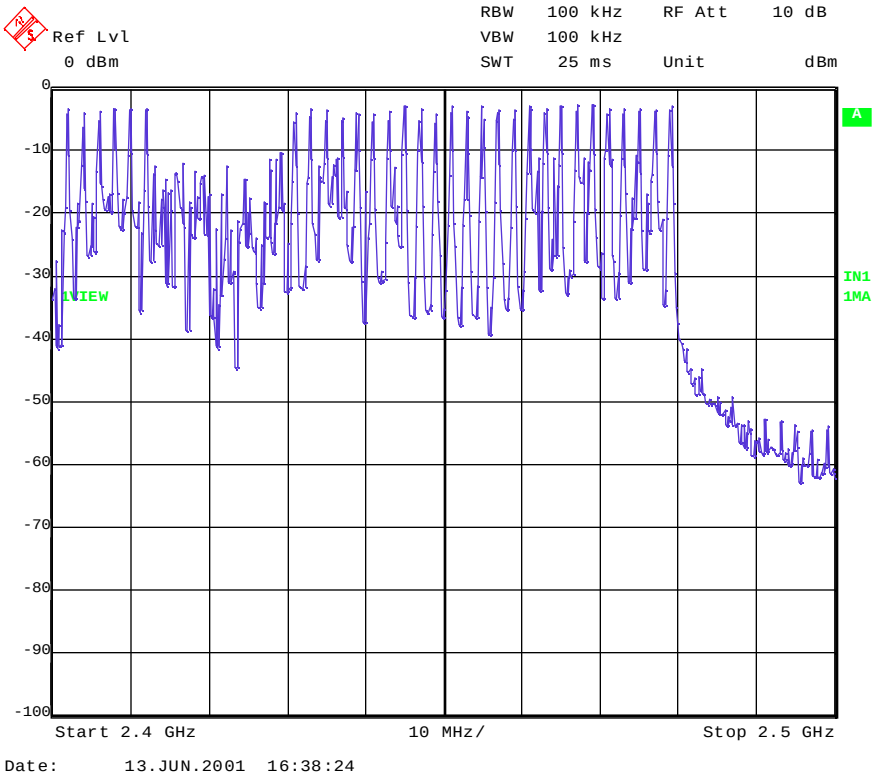

Figure 1 – Number of Channels (Inquire)

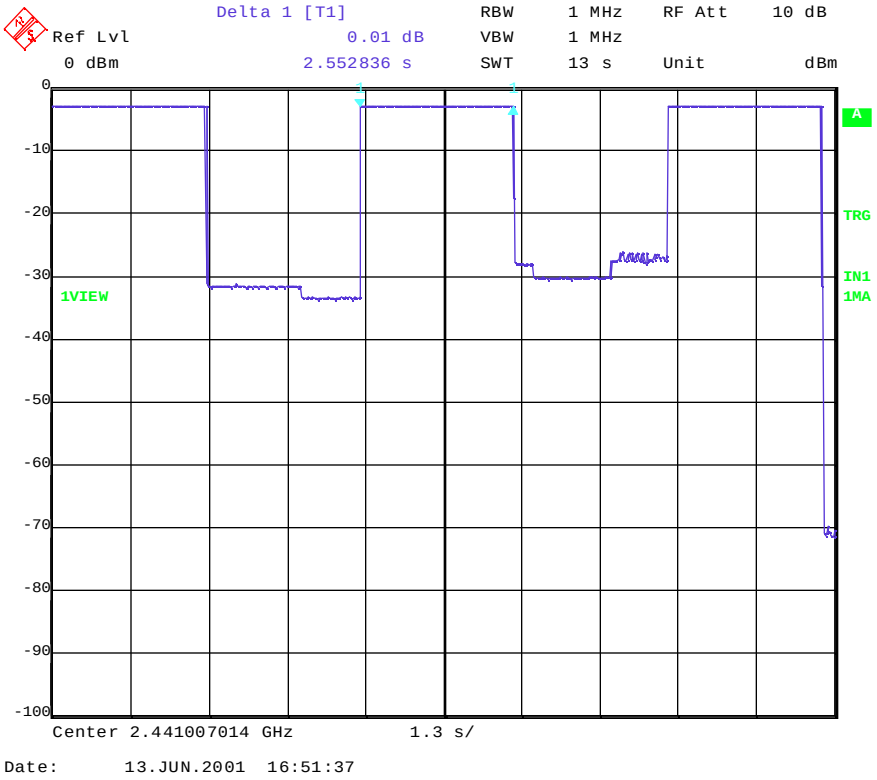

Figure 2 – Transmission Blocks (Inquire)

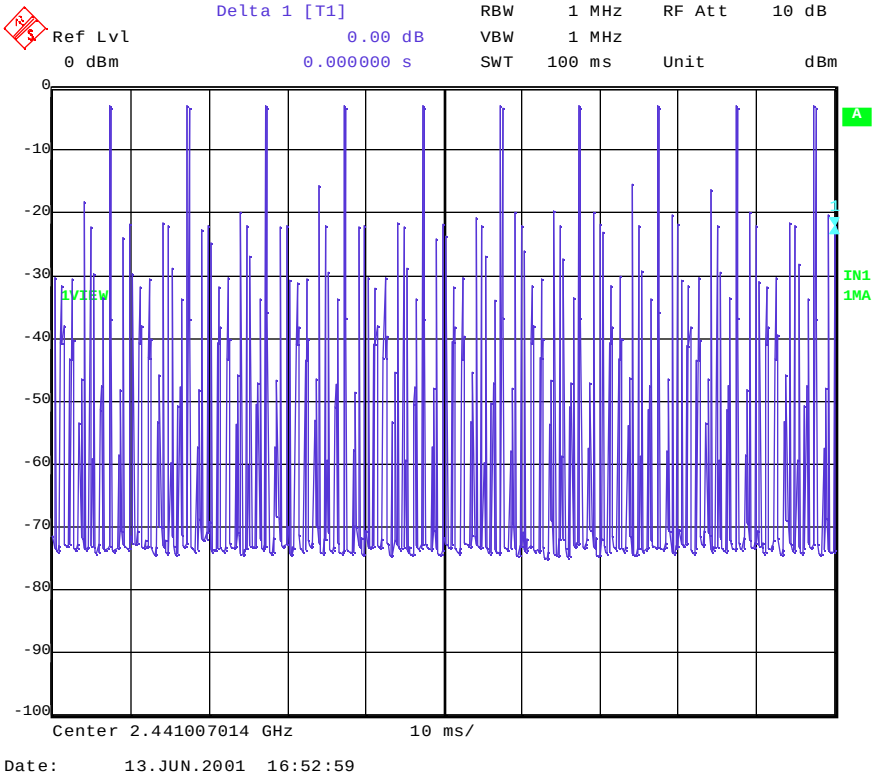

Figure 3 – Transmissions on Channel (Inquire)

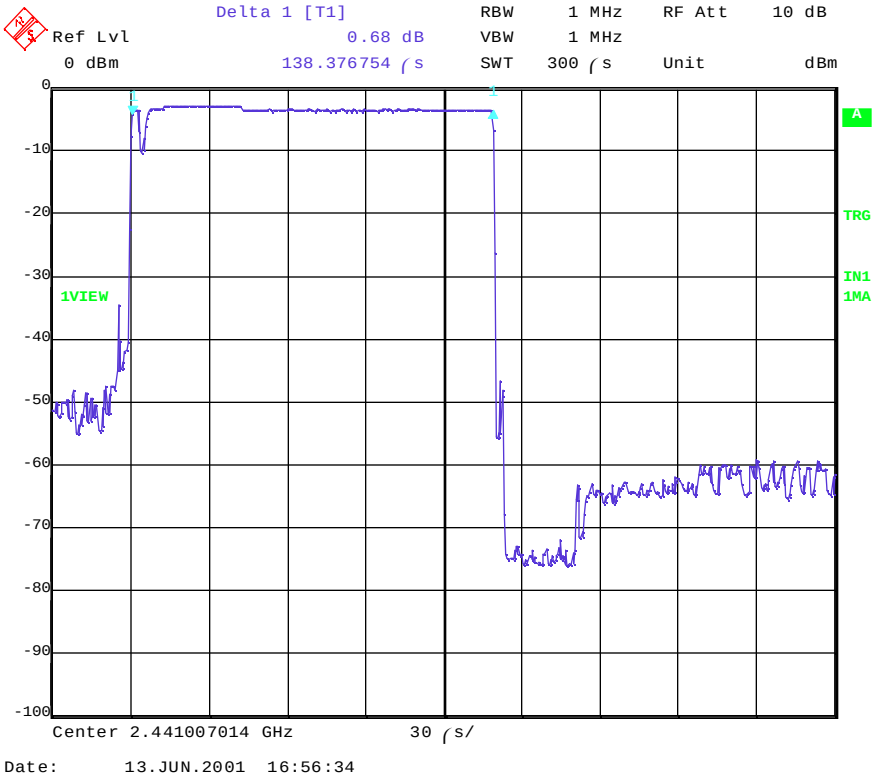

Figure 4 – Span of individual transmissions (Inquire)

Page Mode

There are 32 Channels used in the inquiry mode (Figure 5). In a 30 second span, there are 5 blocks of transmission on a channel, each block spanning 5.109 seconds (Figure 6). During a block of transmission, there is a transmission every 10 msec (Figure 3). Thus there are 85.15 transmissions per second on a channel [(5.109 x 5) ÷ 30 ÷ .01]. In 30 seconds there would be a maximum of 2554.5 transmissions on a channel. Each transmission is 146.79 µs in duration. The maximum time on a channel in a thirty second span would be 374.7 ms (2554.5 x 146.79 µs) vs. a limit of 400 ms maximum.

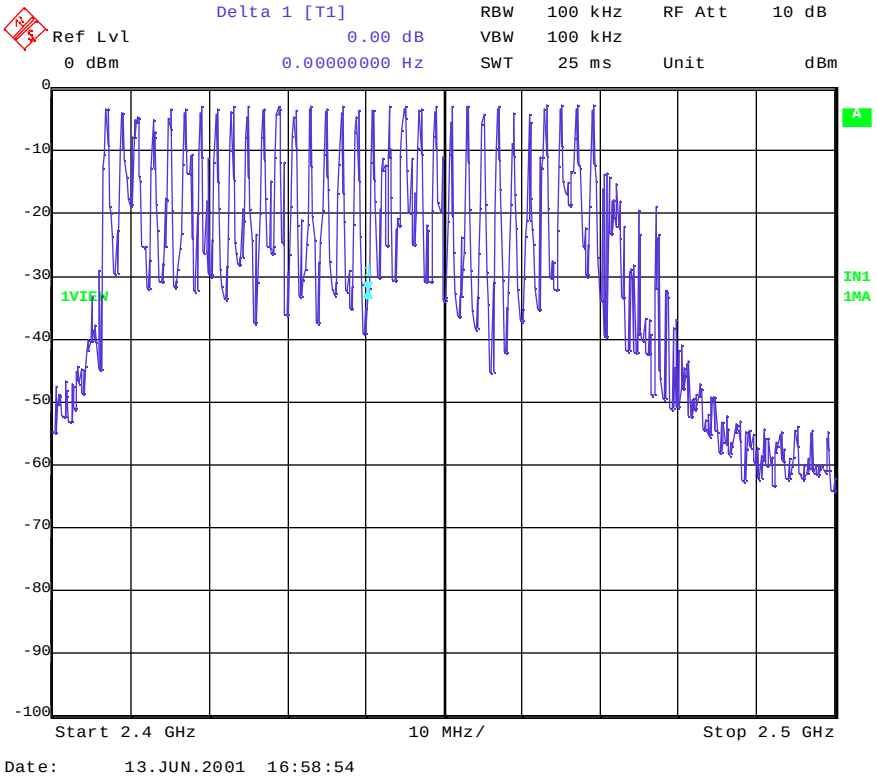

Figure 5 – Number of Channels (Page Mode)

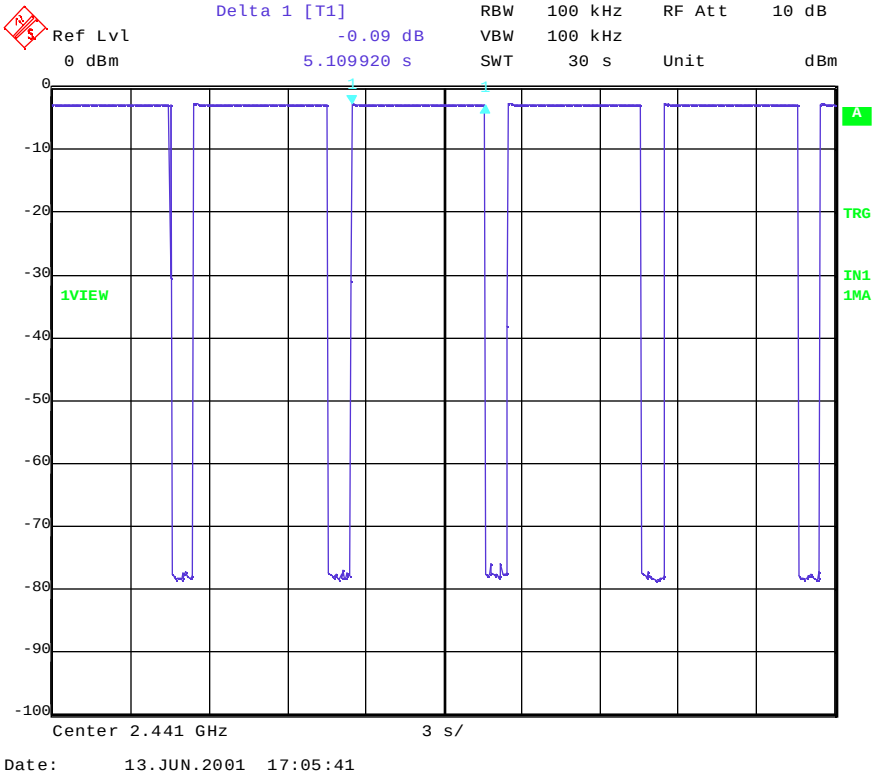

Figure 6 – Transmission Blocks (Page Mode)

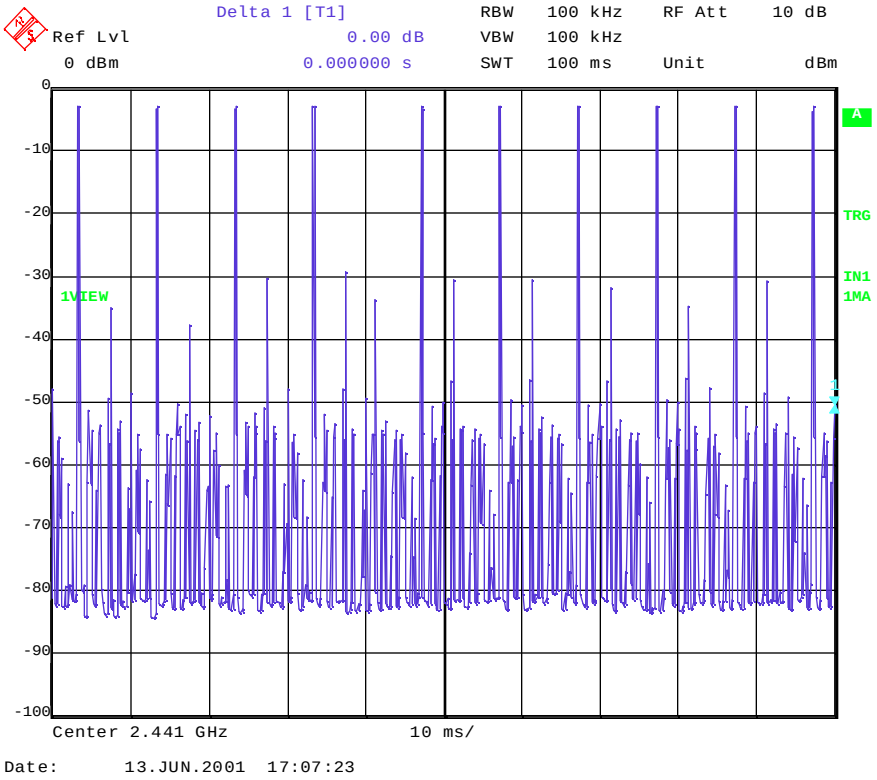

Figure 7 – Transmissions on Channel (Page Mode)

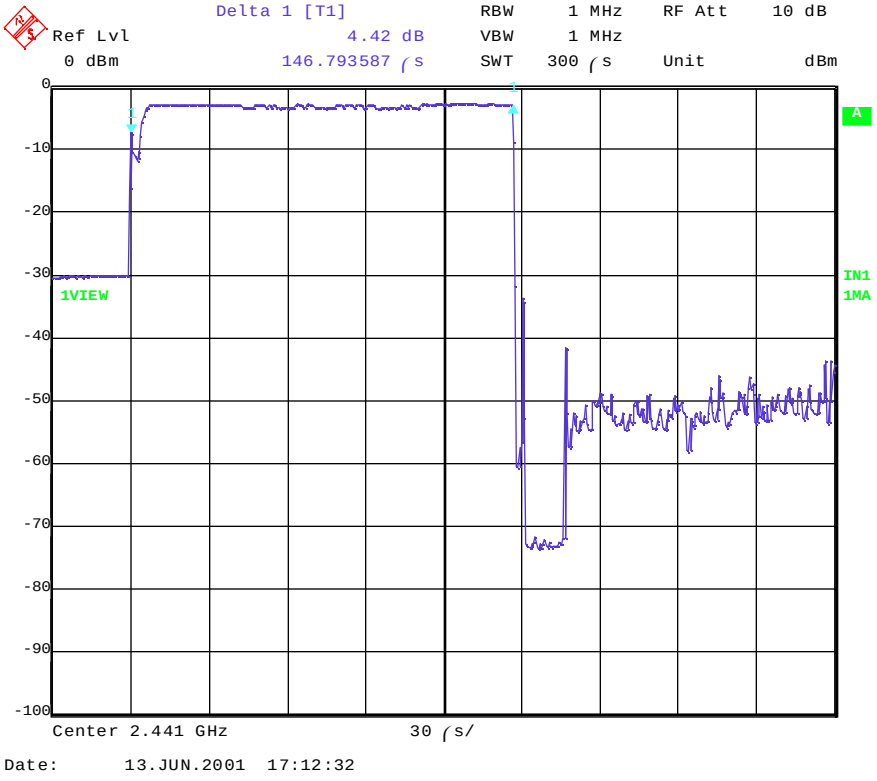

Figure 8 - Span of individual transmissions (Page Mode)