



Date: November 22, 2021

To: Federal Communication Commission  
Subject: Zigbee Max Duty cycle operation

ID: IC: 4668A-ER28, FCC: Q95ER28

1. The device incorporate Zigbee based DSSS radio that was modified to proprietary protocol.
2. The device transmits packets based on 560uSec.
3. After Each packet transmit, device set to receiving mode for a duration of 16.1mSec before next packet transmit.
4. Per these conditions, for 100mSec time frame device transmit 6 pulses. This is the Max device Transmission Duty Cycle:
  - a. Tx time=0.56uSec
  - b. Rx time=16.6mSec
  - c. DC % =  $(0.56 * 6) / 100 = 3.36\%$  DC.
5. The Device Max Duty cycle cannot be modified by user. It is a part of the device FW that is not available to any user apart from Cardo Development.

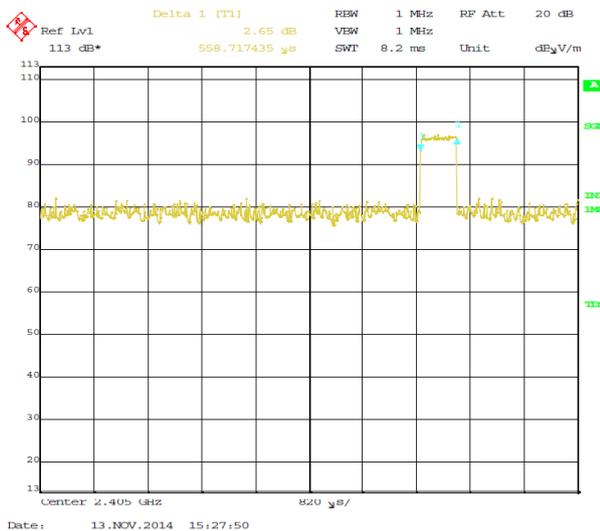


Figure 33. Burst Duration

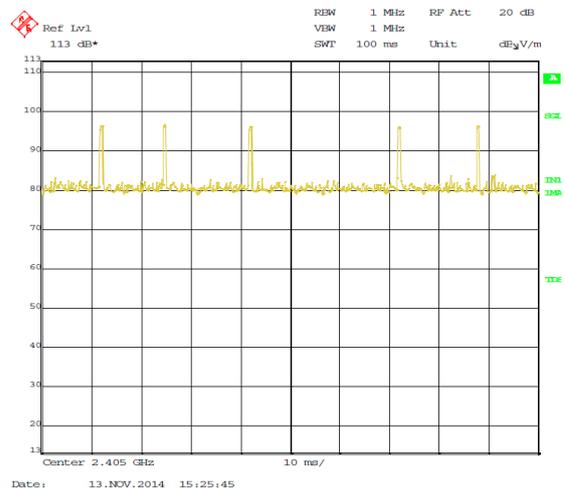


Figure 34. Number of Bursts in 100msec

Thank you,

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