

December 13, 2001

RE: Savi Technology

FCC ID: KL7-612R-V1

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) The block diagram should show the frequency of all oscillators in the device (CFR2.1033(a)(5)).
- 2) Photographs may not be held confidential based only upon on the basis of trade secrets. Please remove the request for photographs from the letter of confidentiality or provide a better justification. As an alternative, you may use a black marker to "black out" the top of any readable components and provide new internal photographs. Please provide feedback with respect to this issue.
- The theory of operation provided information with respect to meeting the requirements of 15.231(a) & 15.231(e). In specific please address the following concerns:
 - a) The information is somewhat ambiguous (i.e. what is the timing between elements, of the collection mode, etc.) Please provide a timing diagram showing worse case timing elements and possible variants that occur between reader and tag as mentioned in the Theory of Operation.
 - b) The Theory of Operation categorizes all of the collection mode signals under 15.231(a), and only the data under 15.231(e). However the test report separates only the "wake up" signal. Please provide a better explanation of which signals are categorized under 15.231(a) and which ones under 15.231(e). Also explain why each type of signal is categorized as which.
 - c) The duty cycle in the report was listed as 33% for all types of signals, while the theory of operation states 30% and 12%. Please explain.
 - d) Please explain what is meant by the Data transmission mode where "the duty cycle of data pulses is limited by firmware control to maximum 12 ms every 100 ms.
- 4) Please explain the purpose of 2 identical transmitters in the unit. The theory of operation does not bring up this issue. Are they ever expected to transmit at the same time? If so, how does this affect the measurements made?
- 5) FYI, Page 8 of 16 states that the EUT was received on October 4, 2001 and tested on September 6, 2001.
- 6) It appears that the data/control signals measured were higher than the wakeup signal. Was this expected since the reports states that the wakeup signals was to meet 15.231(a), while the data/control was to meet 15.231(e)?
- 7) FYI, the information requested in item 3) & 4) will need to be provided before a final the review of the test report can be completed.

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.