



American Telecommunications Certification Body Inc.  
6731 Whittier Ave, McLean, VA 22101

August 14, 2002

RE: TopSeed Technology

FCC ID: PTITSBD-401

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 (see CFR2.1033(a)(5)). Please provide an updated block diagram.
- 2) 15.231(a)(1) states that a manually activated transmitter must stop transmitting within 5 seconds of being released. Please provide further information as to how the device meets this requirement (i.e. Does the EUT stop transmitting immediately after a button is released. If Not, please provide a plot showing how soon the device stops transmitting.)
- 3) Please provide an additional plot > 100 msec showing the plot train.
- 4) Tables in section 5.5 of the test report do not show limits or margins. Please correct.
- 5) Page 13 of 18 states that the "peak levels were obtained by subtracting the duty cycle correction factors from the peak readings". Please note that by subtracting the duty cycle from the peak reading, you are obtaining an corrected average reading (average measurements are not allowed for 15.231. The average measurement is obtained by correcting by the duty cycle).
- 6) The duty cycle information was given in the test report but is not shown in the sample calculations given in sections 5.2 & 5.5 of the test report. It is not clear if the duty cycle correction was included in the data of section 5.5 (to show average results) or if the data in section 5.5 is only peak data. Please explain if the duty cycle was applied and to what sets of data.
- 7) The fundamental frequency is 433.92. Data was taken for several harmonics between the 4<sup>th</sup> and 10<sup>th</sup> harmonics. However no data was provide for the 2<sup>nd</sup> or 3<sup>rd</sup> harmonics which tend to be radiate more than the higher order harmonics. Please explain.
- 8) The above 1 GHz data does not show any correction factors. This does not match the information given in section 5.2 of the report. Please provide updated data tables.
- 9) Please provide a Users Manual exhibit which includes the information specified by 15.21 & 15.105 (it is assumed the users manual covers the receiver as well).

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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.