



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

April 24, 2006

RE: Advanced Audio Concepts, Ltd

FCC ID: T3Z-BROOKSTONE-T

I have a few comments on this Application. Depending on your responses, kindly understand there may be additional comments.

- 1.) FYI: The Form 731 shows the RF power for this device should be 1.8 Watts. This is far in excess of what is allowed under 15.249. Please review and correct. In reality RF power rarely needs to be stated for any Part 15C device except for those under 15.247
- 2.) FYI: It is usually good practice to list on Form 731 in the space provided by 4(a) a brief description of the device that your client wants to be shown on the Grant. For this device, I suggest "Low Power Audio FM Transmitter". Is this satisfactory?
- 3.) There is a typo on page 3 of the Test Report – there should be no mention of 15.239, only 15.249. Please review and change.
- 4.) Please provide a listing of equipment in Section 4.2 used for measurements to the 10th harmonic. Only the Chase Bi-Log antenna is shown, nothing which appears capable of higher frequency measurements.
- 5.) Please provide some indication as to the system sensitivity using a 1MHz RBW at the 10th harmonic. Can you see emissions of only 500 microvolts on a 3 meter site using the specified RBW?
- 6.) I have some concerns that this device may not have been properly modulated with the Kenwood audio generator described in the diagram 3.3 of the Test Report. Can you kindly provide the audio input level used during testing?
- 7.) My concern for proper modulation extends to the Occupied Bandwidth plot of Section 7. This device when tuned to 927.4 MHz may have modulation products which extend outside the permitted 902-928 MHz band. May I please have another plot with the exact settings you show for the plot in 7.2 (same span, center frequency, RBW and VBW), but using a 10KHz audio tone from the Kenwood audio generator instead of 1KHz? Please remember to provide a level for the 10KHz audio tone.
- 8.) There are two controls in the schematic which appear to be some sort of tune-up device. One is VR1 which appears to set the audio input level to the transmitter section. The other is VC1 next to a 5MHz reference crystal. What is the function of VC1? Is it possible to alter the frequency of this device? If this control will change the frequency at all, how does the factory adjust this circuit?

William H. Graff
President and Director of Engineering

[mailto: whgraff@AmericanTCB.com](mailto:whgraff@AmericanTCB.com)

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.