



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

January 24, 2007

RE: Enping Ding Li Acoustics Technological Co., Ltd.

FCC ID: RW2BT16U

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

- 1.) Please define more carefully the FCC Rule parts for which you desire Certification. There are some references within this filing to both Part 74 and to Part 90. Which is correct? FYI: For your reference, you may also wish to review 90.217. You may be able to add this to this filing.
- 2.) It appears, when comparing your frequency range on Form 731 to what is written in the Manual, the operating range should be properly quoted as 470-05-509.95 MHz. Is this correct? If so, kindly revise your Form 731.
- 3.) The Test Report cites an incorrect standard used for Certification. All Licensed transmitters should use TIA/EIA 603 as a reference – never ANSI C63.4. Please review and correct.
- 4.) The FCC requires transmitter block diagrams to show the way RF signals are created, modulated and amplified. The block submitted does not appear to show any crystals or provide any understanding of how the fundamental frequency is generated. Please correct.
- 5.) The specifications for this device in the Manual indicate this device may actually operate up to 25mW (+14dBm). But your Test Report and Form 731 show only ~4.7mw. The Test Report (pp 4) also indicates the RF power can be changed. It is a large discrepancy between 4.7 and 25 mW, and makes one consider if this device was tuned up properly before testing. Unfortunately we are unable to verify this because the Tune-Up instructions are unavailable. It is obvious from the Internal Photographs that some adjustments on the circuit board are possible. Please provide a Tune-Up procedure for this device as required by FCC rules. In most FM wireless microphone systems this typically would include instructions for adjustment of frequency, power, and deviation. Please provide this information.
- 6.) All Licensed radio transmitters must provide a Parts List. Kindly submit.
- 7.) Please expand on the Operational Description to describe how this device creates, modulates, and amplifies a radio signal from a circuit-level view.
- 8.) It appears that some out-of-calibration equipment was used during testing (pp 6).
- 9.) The Radiated Spurious Emissions test (pp 39) claims to utilize the substitution method for measurement of RF spurs. But to properly evaluate this test, I will need to have all substitution test details such as cable loss, antenna correction factors, signal generator levels, etc. Please provide.
- 10.) FYI: For greater accuracy during radiated emissions testing. Mai I suggest that the equipment be set to a higher distance than the .8M table-top used for computer peripheral testing? My personal recommendations are to use at least 1.5M as measured from the floor This will help minimize the effects of ground bounce in any semi-anechoic room
- 11.) You have requested an emission designator of 96K0F3E. Please justify this analog FM designator using the classic 2M + 2DK formula.
- 12.) No Confidentiality is requested for this transmitter. Please confirm in writing that Confidentiality is not required.
- 13.) No Agent Authorization letter is provided but TUV SDU is listed as both technical and non-technical contact for this filing. How do we know that TUV SUD has the authority to act on behalf of Enping Ding Li Acoustics Technological Co., Ltd? Please correct.
- 14.) FCC may require the FCC ID label shown in the photographs be placed in a different position. As a general rule, placement of labels on battery compartment doors – even hinged doors – is

a problem. The difficulty is that doors can become lost. I have also attached a copy of FCC labeling guidelines for your reference. Kindly review carefully with your client.

- 15.) Please provide reference levels used for all audio modulation characteristics tests. FYI: You may wish to consider using a 600 ohm balanced audio signal generator in lieu of the artificial mouth for both modulation limiting and audio response. This may make it easier.



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.