

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

November 15, 2008

RE: ATCB006735 – Original Equipment

FCC ID: DD4UR1HB for Shure Inc.

I have a few comments on this Application. Please **do not put confidential information** in your responses to these questions because the response letter will not be held confidential by the FCC. Depending on your answers there may be more questions.

1. The MPE analysis for the wideband dipole antenna used in a mobile RF exposure condition is incorrect. This analysis uses a conducted output power of 84.7 milliwatts but the maximum conducted output power measured from this device is 224 milliwatts and the maximum EIRP measured with the wideband dipole antenna (using the substitution method) is 510 milliwatts. The worst case EIRP should be used to calculate the MPE to see if this device meets the mid-band limit of 0.405 milliwatts/cm² (608/1500).

[See updated RF Exposure Statement.](#)

2. The field strength values reported for ERP using the substitution method on pages 60 to 65 of the amended test report are really EIRP values because the 2.15 dB antenna gain has not been subtracted from the values listed on these pages. Please correct the values or the heading on the column reporting the field strength of these emissions.

[The antenna gain for this particular antenna is 2.15 db, exactly the same as the correction factor for ½ wavelength dipole, so it cancels out. ERP Substitution Method was used.](#)

3. Please confirm that the correct parts list was provided. It is noted that there are A, B, and C hardware groups associated with the different frequency range designs for this device (in three different applications). The EUT in this application is for hardware group denoted as B, but the parts list states it is for a variant A. It is unsure if variant A and hardware group B are different or if they are the same.

[Shure has the notation "var A" on the Parts Lists as internal documentation of the Parts List version. The hardware does not change based on the frequency allocation of the unit.](#)

4. The amended user manual does not address the use of the wideband dipole antenna as a mobile device for RF exposure purposes. The user manual must contain installation and operating conditions so this antenna can be used so this device meets the RF safety limits. Please provide a user manual with the appropriate RF exposure information, 20 cm statements, etc as necessary for the use of this dipole antenna in a mobile configuration.

[See updated User's Manual.](#)

5. For Your Information – I am still reviewing the SAR report for this application and I may have additional questions on the SAR measurements next week.



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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.

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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.