



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

December 1, 2008

RE: Shure, Inc.

FCC ID: DD4UR1HF

After a review of the submitted information, I have a few comments on the above referenced Application. Depending on your responses, kindly understand there may be additional comments.

- 1) Please confirm the correct parts list was provided. It is noted that there are A, B, C, & F Hardware Groups associated with different designs. The EUT provided is for Hardware group denoted as F, but the parts list states it is for a variant A. It is unsure if variant vs. hardware group are related. Please confirm. [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.](#)
- 2) Several pieces of test equipment appeared out of calibration, but was uncertain if this particular equipment was used. Please review calibration list.

[See updated test report.](#)

- 3) FYI...For the 731 form I am showing that the power should be listed as frequency tolerance of 4058 Hz, and emissions designator of 125KF3E (Carson's rule for Analog devices).

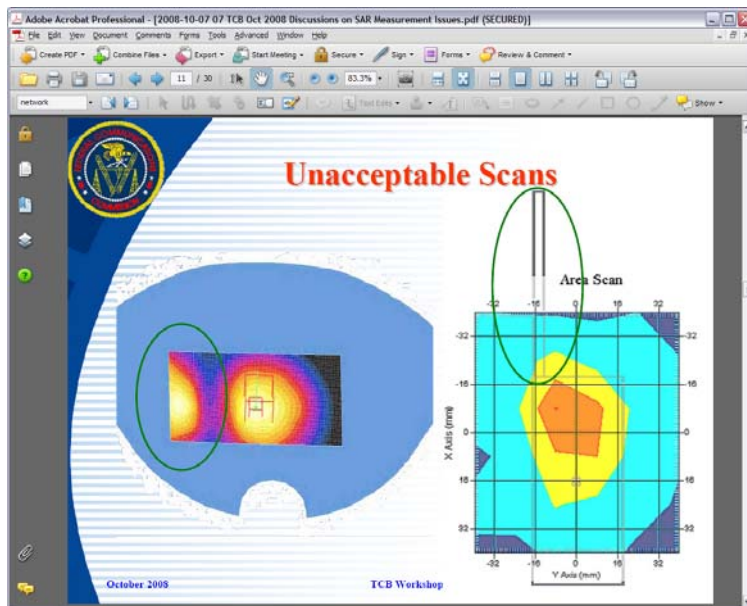
[See updated 731 Form.](#)

- 4) The RF exposure exhibit for mobile has a few concerns. a) The frequency specified is incorrect, b) The power is substitution ERP and only needs correction to EIRP (not antenna gain corrected) c) The exhibits mentions SAR is not necessary. However at  $\geq 20$  cm – we are not interested in SAR, but RF exposure evaluation. d) the equation mentions W, but may need to be mW. Please review.

[See updated RF Exposure Statement.](#)

SAR [See Responses to TCB Part 2 for the following answers.](#)

- 5) Test equipment list does not appear to show correct tissue fluid. Please explain.
- 6) FCC asks that liquid dielectric parameters and temperature measured at device mid-band frequencies. It does not appear this information was provided.
- 7) It does not appear that the phantom was big enough to encompass the entire antenna and unit at the same time. Was additional positions investigated to ensure additional hot spots along the antenna were not missed? The following are recent FCC issued concerns:



⌘ Page 2

December 3, 2008

Note: FCC has issued concerns such as the following on other recent applications:  
 SAR plots for all positions indicate the antenna has not been included in the SAR measurement; these positions need to be repeated with substantially larger area scans to include both the antenna and the DUT; when there are multiple hot spots, multiple zoom scans are needed; Note: phantom is \_\_\_\_cm; therefore, may need to adjust DUT & antenna so that both are toward center of phantom away from the phantom side walls when conducting SAR measurements.

- 8) It is uncertain what the frequency span coverage of the validity of the probe correction factor is. The calibration certificate does not provide sufficient information to support it covers the band in which it is used here for measurements.
- 9) It was not clear from the photos provided if the microphone was attached during testing despite the text of the document states it was attached the photos do not appear to support this. This is expected to be attached during SAR as it is an accessory that does contain metal and can affect the results

Timothy R. Johnson  
 Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@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.