



MOTOROLA

Date: MAY 1, 2009

Subject: Request for additional information regarding FCC ID: IHDT56KY1

Reference:

Correspondence Reference Number:	IHD90419
Confirmation Number:	904130419-21
Date of Original Email:	April 24, 2009

Prepared by:

Andrew Bachler, Principal Staff Engineer
Motorola Mobile Device Business
Libertyville, Illinois 60048

Questions and responses follow:

1. The following required documents are missing from the application. Please submit them.
 - a. BT Block Diagram
 - b. BT Operational Description
 - c. Licensed transmitter Block Diagram listing all clocks/oscillators

Response: [Please refer to the BT Block Diagram \(EX4A\) & BT Operational Description \(EX12A\) and the revised licensed transmitter Block Diagram \(EX04 revised\) submitted online.](#)

2. What is the gain of the BT antenna?

Response: [The maximum Bluetooth antenna gain is 0.31 dBi](#)

3. Please resubmit the user's manual, including the required HAC language.

Response: [Please refer to page 63-64 of the revised user's manual submitted online.](#)

4. Please provide RF conducted plots at 1 MHz removed from upper and lower bandedges (all 3 bands) using RBW = 100 kHz (cellular band) and 1 MHz (PCS

and AWS bands).

Response: Please refer to the Band Edge Plots attached.

5. Page 5/30 of the BT report states that the EUT does not support EDR mode, but the test data shows otherwise. Please revise.

Response: Please refer to the revised Exhibit 6A1 attached.

6. Page 17/30 of the BT report: the plot at the top should be for non-EDR mode, but it appears to be identical to the plot at the top of p.18/30. Please address.

Response: Please refer to the revised Exhibit 6A1 attached.

7. The measured AWS band head and body SAR tissue fluid conductivities are more than 5% below the target levels. Please address.

Response: Please refer to the revised Exhibit 11 attached.

8. The SAR probe calibration points (900 MHz and 1810 MHz) are more than 50 MHz removed from the measured bands. In accordance with the FCC Application Note 450824 D01 SAR Prob Cal and Ver Meas v01r01, this situation entails additional requirements for the tissue fluid parameters used during testing (see p.4/7 of the App Note). The cellular and AWS band tissue fluids used in the SAR tests do not meet the criteria set forth in the App Note. In accordance with FCC instructions given during the 4/14/09 TCB Conference Call, a KDB question must be sent to the FCC, along with the pertinent information and data, so that they may determine if additional testing is required. Please do so, and then, after following any instructions given to you by the FCC, submit their written (email) response to us, so that we may complete our review. It is suggested that, in the future, this procedure take place prior to submittal of the application to the TCB. Alternatively, cellular and AWS band SAR may be remeasured, using either a probe calibrated within 50 MHz of the measured band, or else using tissue fluids that comply with the more stringent requirements.

Response: A KDB inquiry has been submitted to FCC. We will forward you the FCC correspondence once we get it.

9. Please revise the user's manual, correcting the maximum SAR levels reported therein to those actually measured.

Response: [Please refer to the revised user's manual submitted online.](#)

10. From the set-up photos it is impossible to tell if the earpiece was connected during SAR body testing. Please confirm that it was, or else retest body SAR with it attached.

Response: [It is confirmed that the earpiece was always connected to the phone during SAR body testing. We always input earpiece model number in the scan comment area for SAR body testing. Please refer to the revised Exhibit 7D submitted online.](#)