



MOTOROLA

Date: January 12, 2005

Subject: Request for additional information regarding FCC ID: IHDT56EL1 (Portable Cellular/PCS CDMA transceiver with embedded Bluetooth Transmitter)

Reference:

Application Received:	12/14/2004
Correspondence Reference Number:	241222A.IHD
Confirmation Number:	TC4416 & TC4417
Date of Original Email:	12/22/2004

Prepared by:

Andrew Bachler, Principal Staff Engineer
Motorola Personal Communications Sector
Libertyville, Illinois

Questions and responses follow:

Parts 22/24 application:

1. Please confirm that the following is a typo: page 8 of the EMC report lists the BAP function as being used to measure EIRP, instead of the MAP function normally used for CDMA.

Response: Confirmed; the report was in error. The radiated power was measured using a Gigatronics 8542C power meter in "Mod Avg" mode.

2. Conducted bandedge measurements for the cellular band were made with a RBW=10 kHz. The FCC Rules require that a RBW of at least 1% of the emission bandwidth be used. Please remeasure, using a RBW equal to or greater than 1% of the emission bandwidth (1.27 MHz) and submit new plots (both upper and lower bandedge).

Response: Please refer the plots in the supplemental test report, submitted January 12, 2005.

3. Apparent typo: p.6 of the SAR report, the validation data taken on November 11 for 900 MHz- the average of the 2 values on the SAR data page is 11.2, not 11.3. Please confirm.

Response: Please refer to the supplemental SAR report submitted on January 12, 2005.

4. Apparent typo: p.10 of the SAR report, the channel 777 right hand touch measured level should be 1.22, per the data plot page. This, in turn, affects the extrapolated level. Please address.

Response: Please refer to the supplemental SAR report submitted on January 12, 2005.

5. Please correct the User's Manual's maximum head SAR listing to 1.24, and body SAR to 1.31.

Response: Please refer to the updated "pages from EP-EX08" for the SAR values, submitted on January 12, 2005.

6. Please add the required body-worn SAR warning statement to the User's Manual.

Response: The body-worn SAR warning statement is located on page 5 of Exhibit 8A, submitted on January 12, 2005.

7. FYI: in the future, please be sure to specify the detector function used to make spurious radiated and conducted emission measurements.

Part 15C application:

8. Several spurious radiated emission peak field strength levels exceed the average limit (low channel emission at 12006 MHz, both x and y orientation, and the mid channel emission at 12204 MHz y orientation). Please submit average field strength data for these emissions, in order to demonstrate compliance with Sections 15.205 and 15.209.

Response: Please refer the plots in the supplemental Bluetooth test report, submitted January 12, 2005

9. While the spurious conducted emission plot for the hi channel is labeled as 20-26.5 GHz, the actual plot is for 10-20 GHz (repeating the previous plot). Please provide the plot for 20-26.5 GHz.

Response: Please refer the plots in the supplemental Bluetooth test report, submitted January 12, 2005

10. Please describe the Bluetooth antenna. What is its gain?

Response: The Bluetooth module uses a separate antenna internal to the housing of the phone. The maximum antenna gain is approximately 3 dBi. It is heat staked to the internal structure in the lower portion of the phone. (The Bluetooth antenna is located below the battery compartment and next to the speaker.)

11. Please include the statements required by Sections 15.19(a)(3) and 15.21 in the User's Manual.

Response:

- Section 15.19(a)(3) is located on page 20 of User's Manual Exhibit 8A, submitted on January 12, 2005.
- Section 15.21 compliance statement is to be located on the "Copyright" page in the user's manual (page 5 of the preliminary version). The text follows:

Caution: Changes or modifications made in the radio phone, not expressly approved by Motorola, will void the user's authority to operate the equipment.