5 October 2011

Authorization & Evaluation Division
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Application for Class II Permissive Change to Certified transmitter with FCC ID: IHDT56MP1, PCS Handsets, with Wi-Fi and Bluetooth.

Gentlemen;

Motorola Inc., 8000 W. Sunrise Blvd., Suite A; Plantation, FL herein submits its application for a Class II Permissive Change to the certified multi-mode handset with FCC ID: **IHDT56MP1.**

Description of Transceiver:

The primary transceiver in this composite device operates in the 800 MHz Enhanced Specialized Mobile Radio Service (ESMR), for which Sprint/Nextel has obtained waivers from the FCC to deploy broadband services, and the 1900 MHz Personal Communications Service (PCS). It supports CDMA signaling, and employs CDMA 1X and EV-DO Rev. A operating capabilities.

This radio product is also equipped with a Wi-Fi (802.11b/g/n) transceiver. The Wi-Fi Band of operation is 2.412 - 2.462 GHz, with channels up to 17 MHz in bandwidth for 802.11g operation. The Wi-Fi device complies 15.247 (c), 15.205, and 15.209 (b).

This radio product is equipped with a Bluetooth (BT) transceiver. BT supports both voice and data for short range wireless communications. The Bluetooth Band of Operation is 2.4 - 2.4835 GHz (1 MHz channel bandwidth). The BT device also complies with the requirements of FCC Rule Parts 15.247 (c), 15.205 and 15.209 (b).

This radio product features an integrated GPS receiver, and is designed to function as a computer peripheral device when functioning as an RF modem, while connected to a computer via a data cable, as described in 47 CFR Part 15.3(r).

Description of Changes:

Optimization of the Receiver Diversity antenna was implemented via minor dimensional changes to the receiver diversity antenna. Additionally, minor modifications to the Front and Rear Housing mechanics were made to improve fit and finish of the device, and improve manufacturability. No changes were made to the circuit design, PC Board, or components used for the transmitters in the manufacture of this device. All those changes are so subtle that they won't show in the photos.

Impact of Change:

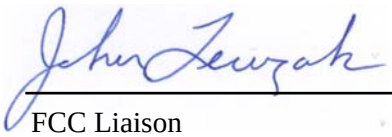
The performance of all applicable and reportable operating parameters under FCC Rule Part 90, Subpart S, Part 24, Subpart E, and Part 15, Subparts B and C were evaluated and compared with the values originally filed. In particular, the RF Exposure performance (per 47 CFR 2.1093), Radiated Emissions, and other characteristics (per 47 CFR 2.1046 – 2.1055, as required) were evaluated. The harmonics emissions (second) degraded by more than 3 dB in the PCS band, but remain compliant with FCC requirements. The SAR measurements were done and found no significant change from the original submission. The levels remain compliant with FCC limits. All other aspects of the transmitter's performance (including HAC performance) remains unchanged, within measurement uncertainty, from that originally filed with the FCC for this ID

Conclusion:

This transceiver continues to meet all FCC requirements for which the original authorization was granted. The changes described, therefore, meet the requirements for a Class 2 Permissive Change, in accordance with 47 CFR 2.1043.

Enclosed are an amended test report, and Statements of Certification. Contact me at (954) 723-6272 if you require any additional information.

Regards,



FCC Liaison
Motorola Mobility, Inc.
8000 W. Sunrise Blvd.; Suite A
Mail Stop 52-5JJ
Plantation, FL 33322
E-mail: John.Lewczak@motorola.com

Attachments:

1. Exhibit 2 (Statements of Certification).
2. Exhibit 6 (New Part 90/24 RF Report).