



5 August 2009

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: IHDT56KC1, i856 with Bluetooth.

Gentlemen;

Motorola Inc., 600 North US Hwy 45, Libertyville, IL herein submits its application for a Class II Permissive Change to the certified multi-mode handset with FCC ID: **IHDT56KC1**.

Description of Transceiver:

This transceiver features a variable output power (0.22 to 640 milliwatts) transmitter that is part of a handheld transceiver used in SMR and EA SMR trunking systems operating within the United States 806-821/851-866 MHz and 896-901/935-940 MHz frequency bands. Operation is also extended for use in a Narrowband PCS system operating in the United States in the spectrum between 901-902/940-941 MHz, on channels which the licensee has aggregated together to form twenty-one 25 kHz operating channels.

This device also possesses a transmitter that operates in the ISM band (902 – 928 MHz). The two transmitters are configured so that they operate exclusive of each other (i.e. only one mode can operate at a time). While in this mode there is no connectivity to any cellular networks, and the transceiver uses only the FHSS protocol, as permitted in the ISM band. The operational mode is selected by the user via a menu selection.

This radio product is also 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). It is a Class 1 type device, with power rated +4 to +10 dBm (typical +8 dBm).

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 Change:

There has been no change to the electrical or mechanical design, components utilized, or software responsible for transmitter control. During Motorola's routine evaluation of the RF exposure characteristics of Pilot-vintage product prior to authorizing large scale distribution, it was discovered that the SAR laboratory employed the incorrect radio test scripts during their initial evaluation in support of the original equipment filing. The proper scripts were used for Pilot testing, and these resulted in SAR values higher than those of the original filing, beyond what can be accounted for by system measurement error. The error affected only the MOTOtalk mode (900 MHz ISM band) performance, which continues to be compliant with FCC required performance levels. The error also only affected SAR testing, as all other testing was performed with the correct test scripts.

Impact of Change:

The RF Exposure performance of this transmitter, with applicable accessories attached and operating, was evaluated in accordance with 47 CFR 2.1093 at Motorola's Government & Public Safety EME Laboratory in Plantation, FL. Due to the use of an inappropriate test script, the RF Exposure performance of the transmitter was found to have degraded beyond what could be explained by measurement error, though continues to be compliant with FCC rules. All other aspects of the transmitter's Part 90, Part 24, and Part 15 ISM band performance (including Radiated Spurious emissions and 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 RF exposure and emissions requirements for which authorization was granted. Since all other data currently on file with the FCC for this transmitter are unchanged, this change meets the requirements for a Class 2 Permissive Change, in accordance with 47 CFR 2.1043.

Enclosed is an amended test report, and Statements of Certification. Contact me at (847) 523-6167 if you require any additional information.

Sincerely,



Andrew J. Bachler
FCC Liaison
Motorola Mobile Devices Business
Email: A.Bachler@motorola.com

Attachments:

1. Exhibit 2 (Statements of Certification).
2. Exhibit 11 (Amended MOTOtalk SAR Report, in three parts).