



motorola
a lenovo company

20 July 2016

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 IHDT56VB4, PCS Handsets, with LTE, Wi-Fi, Bluetooth, and NFC.

Gentlemen;

Motorola Mobility LLC; 222 W. Merchandise Mart Plaza; Chicago, IL submits its application for a Class II Permissive Change to the certified multi-mode handset with FCC ID: **IHDT56VB4**, adding Hearing Aid Compatibility.

Description of Transceiver:

The primary transceiver in this composite device operates in the 850 MHz Public Mobile Service (PMS), the 1700 MHz Advanced Wireless Service (AWS), and the 1900 MHz Personal Communications Service (PCS), supporting WCDMA signaling. It also supports GSM signaling in the 850 MHz and 1900 MHz bands, and employs GPRS Class 12 and EDGE Class 12 capabilities.

This mobile device is also equipped with an LTE transceiver. This LTE transceiver supports high-speed wireless data communications within LTE Bands 2, 4, 5, 7, 12, 17, and 25, with channels up to 20 MHz in bandwidth. The LTE device complies with Part 22 (Subpart H), Part 24 (Subpart E), Part 27 (Subpart C), Part 22 (Subpart H), and Part 27 (Subpart C).

This device is also equipped with a Wi-Fi (802.11a/b/g/n/ac) transceiver. Wi-Fi supports both voice and data for short range wireless communications. The Wi-Fi Bands of Operation are 2400 – 2483.5 MHz ISM band, 5150 – 5250 MHz U-NII Band 1, 5250 – 5350 MHz U-NII Band 2A band, 5470 – 5725 MHz U-NII Band 2C, and 5725 – 5850 MHz U-NII Band 3 for 802.11a/b/g/n/ac operation. The Wi-Fi device complies 15.247, 15.407, 15.205 and 15.209.

This device is equipped with a Bluetooth (BT) transceiver. BT supports both voice and data for short range wireless communications. The Bluetooth Band of Operation is 2.402 - 2.480 GHz (1 MHz channel bandwidth). The BT device complies with the requirements of FCC Rule Parts 15.247, 15.205 and 15.209.

This product also supports NFC operation as a low-power itinerant transmitter.

Description of Changes:

The subject device adds Hearing Aid Compatibility. No hardware changes, and only minor software changes, were required to accomplish this.

The original equipment application was subject to a PAG review. Motorola Mobility declares that none of the changes to this device necessary to add HAC capabilities in any way affect any device operating parameters that were the subject of the PAG.

Note that, since this device has not yet been introduced onto the market, there is no need to change the model number to provide differentiation in the field.

Impact of Change:

There were no hardware changes whatsoever, and the minor software changes were not to areas that could impact upon radio performance. Therefore, the performance of all applicable and reportable operating parameters for the various FCC rule parts that the original equipment device was certified under is not affected.

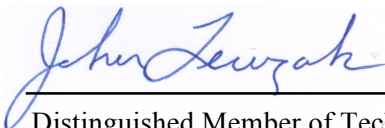
Conclusion:

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.

As stated earlier, since this device has not yet been introduced onto the market, there is no need to change the model number to provide differentiation in the field.

Enclosed are an amended test report, and Statements of Certification. Contact me at (954) 590-0254 if you require any additional information.

Regards,



Distinguished Member of Technical Staff
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Attachments:

1. Exhibit 2 (Statements of Certification).
2. Exhibits 6 (Full HAC reports).