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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56FX1)

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Summary of FCC request for additional information

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56FX1). The requested information is addressed below in the same numbering sequence received.

1a . What is the CDMA MS Protocol Revision number.

RESPONSE: Protocol revision 6 (complaint to IS-2000 Rev 0).

1b . Please address the applicability of test codes to simulate the required test conditions, as defined in 3GPP2, TIA, and other standards.

RESPONSE: All phones are tested using a base station simulator, not in test mode as stated in section 6 Test Results in the SAR report. Future reports will have this section edited to properly reflect the configuration of the phone during testing.

1c. Please identify the CDMA Radio Configurations, Service Options, multiplex options voice/data, code channel combinations and options available to the EUT.

RESPONSE: To test voice calls on the DUT, the test equipment was configured to use "all up bits" for RC1 / SO2 on J-STD-008 for CDMA 1900MHz and TSB-74 for CDMA 800MHz on the Agilent E8285A CDMA Mobile Station test set.

1d. Please identify the CDMA Radio Configurations, Service Options, multiplex options, voice/data, code channel combinations and options used for the SAR tests.

RESPONSE: Please see answer to inquiry #3e below.

1e. Because of the different RC's, SO's, data rates, channel combinations and modulations, the filing should include justification for the selection of applicable configurations used to establish and maintain maximum output in order to demonstrate SAR compliance for other configurations that were not tested. Please provide the justification for the specific combination(s) used during the SAR tests.

RESPONSE: Motorola IS2000 CDMA cellular phones does not use different data rates or concurrent channels (supplemental channels) while in the voice mode, thus testing voice modes using RC1 is applicable. Motorola IS2000 CDMA products do use supplemental channels and different data rates for data mode. The output power of the DUT is controlled by a power control loop within the DUT. This power control loop measures the total RF power supplied into the antenna match network for emission. This output power measurement will include the power from different data rates and concurrent channels. The measured power level is controlled and limited to the maximum output power setting for the phone. Motorola performs SAR tests of IS2000 CDMA phones at this maximum power level using RC1 / SO2, thus the output power under this test setup is equivalent to the maximum output power for any data rate and/or concurrent channel capability of the DUT. The Motorola IS2000 CDMA cellular phones were measured in voice calls only.

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2. Does the EUT employ EV-DO? If so, body-worn SAR should be repeated in EV-DO (Rev. 0 only) using the CDMA 2000 body-worn channel configuration that resulted in the highest SAR among the various Radio Configurations in this frequency band (that is, just a single SAR test for EV-DO, as a sanity check). If this EV-DO SAR is greater than the highest body-worn SAR in CDMA 2000, perform body-worn SAR for the other 2 channels (among the required H, M, L channels).

   Note: EV-DO operates independently of CDMA 2000 with different modulation, channel and protocol structures. It is not an integral part (seamless) of the CDMA 2000 structure, but overlays the 1x structure. EV-DO Rev A allows 307 kbps and higher order modulations; therefore, may need additional considerations. The above procedures applies to single band CDMA 2000 1x handsets with built-in EV-DO (Rev. 0) using the same transmit path hardware. Please contact us if the device in question operates in other configurations or EV-DO does not apply to body-worn conditions.

Response: The EUT does not employ EV-DO.