



MOTOROLA

Date: October 9, 2002

Subject: Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56CG1)

Reference:

Correspondence Reference Number:	5284
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Summary of FCC request for additional information

EMC

1) Information demonstrating compliance with part 22 ESN and E911 requirements. Such information could not be located.

Response: Please refer to Exhibit 12I and Exhibit 12K in the Operational Description for the original filing.

SAR:

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56CG1). The requested information is addressed below in the same numbering sequence received.

1) New 1900 MHZ body measurements using a certified probe calibration factor. No corresponding probe certification could be found. This problem has been previously pointed out under TC 842138.

Response: Since simulated tissue targets are the same for both 1800 & 1900 MHz head and the conversion factor for both 1800 & 1900 MHz head is the same '5.41' (Original SAR report "Probe SN1508 Attached Calibration Certificate), it is also true for body worn that both 1800 and 1900 MHz share the same conversion factor of '5.0' since they share the same simulated tissue targets.

INFORMATION REGARDING ELECTRONIC SERIAL NUMBER (ESN) PROTECTION

This cellular transceiver uses a microprocessor to control its call processing operation. This microprocessor accesses a programmable memory area, which is used to store an encrypted data block that contains the Electronic Serial Number (ESN).

A proprietary scheme is used to create this data block whereby it is encrypted using methods similar to known public key cryptography methods. It is emphasized that the method used is similar to but **different from** these known methods and the actual method used is kept proprietary to provide the essential security for the ESN. Also, the transceiver will not operate unless the microprocessor is able to decrypt this data block correctly.

Access is controlled to both the method of encryption and to the production/repair equipment that has the ability to program the encrypted data block.

911 Call Processing Method Compliance Statement**Method Used**

The Motorola CDMA phone uses the “*Automatic A/B Roaming-IR*” method for providing Enhanced 911 Emergency Calling support in compliance with the FCC mandate.

User Interface

While in the process of attempting to complete a 911 call the Motorola CDMA phone provides both audible and visual feedback to the caller per the FCC order. The display of the phone will show the text “Connecting Emergency” and a feedback tone of three short beeps sounded at 5-second intervals will indicate that the phone is attempting to find a carrier system to complete the call. When the call has been successfully established, the sounding of the feedback tone is terminated and the content of the display is changed to the normal in call display.

System Description

When a 911 call is initiated, the Motorola CDMA phone ignores all programmed restrictions with regard to which systems, both analog and digital are useable for completing the call. If the Motorola CDMA phone has acquired service on a system at the time the 911 call is initiated it will attempt to complete the call using that system. If the phone is not in service on a system it will initially attempt to complete the call using any available system it can find, which may exist on any frequency band or mode, supported by the handset. The phone’s scanning algorithm ensures that both analog sides are scanned at least once approximately every 15 seconds. The phone will continue attempting to complete the 911 call until the call is completed, the user has ended the call, or the battery is exhausted.