



### **Tune-up procedure: Land Mobile BGAN Terminal, RF-7800B-VU104**

The transmitter power for each terminal is calibrated (tuned-up) during manufacture at Hughes Network Systems' factory. This calibration process manually varies the transmitter's output power by varying the transmitter's gain. Then at each power level, the detected voltage from the power detector is measured. This data (transmitter gain, output power and power detector voltage) is then stored in the terminal's non-volatile memory.

During operation, the power detector monitors the terminal's transmit power and the operational software varies the gain in the transmitter to maintain the correct output power. This ensures that the terminal's transmit power remains at the required level, as the ambient temperature changes, as the terminal's supply voltage varies, and as the terminal is instructed to operate at different transmit frequencies.

There is no requirement or facility for a user to perform a tune-up of the Land Mobile BGAN Terminal, RF-7800B-VU104.