## **Intertek Testing Services**

For SAR evaluation of the handset, refer to TCB Exclusions List Revised on 17 July 2002. Potable transmitter with output power less than 60/fGHz (d < 2.5cm) can be certified by TCB without the SAR evaluation.

In fact, the Output power for portable transmitters is the higher of the conducted or radiated (EIRP) source-based time-averaged output. And the fGHz is midband frequency in GHz, and d is the distance to a person's body, excluding hands, wrists, feet, and ankles.

For the tested model of 35850, the measured peak conducted power was 79.4mW and the source-based time averaged output power was 7.7mW as TX duty cycle of the handset is 9.714%.

The maximum field strength (FS) was  $110.1 dB\mu V/m$  at 2401.808 MHz. The distance (D) between the antenna and the equipment under test (EUT) was 3 meters.

From these data, the EIRP can be calculated by:

EIRP = 
$$(FS*D)^2/30$$
  
= 77.1mW

Source-based time averaged output power = (77.1\*0.09714) mW

= 7.49 mW

Based on the above calculation, it is concluded that the handset can be certified by TCB without the SAR evaluation.

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