## **INTERTEK TESTING SERVICES**

For Maximum Permissible Exposure (MPE) evaluation of the base unit, the maximum power density at 20 cm from this mobile transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65.

For the base unit of tested model of TL86109, the maximum field strength measured (FS) was 115.4 dB $\mu$ V/m. The distance (D) between the antenna and the equipment under test (EUT) was 3 meters. And the maximum source-based time-averaging duty factor in four-handsets operation is 20.83%. From these data, the exposed power density at a distance (R) of 20cm from the center of radiation of the antenna can be calculated according to OET Bulletin 65 as follow:

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The radiated power = (FS*D)^2/30
= 104.02 mW
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The radiated (EIRP) source-based time-averaging output power = (104.02 \* 0.208) mW = 21.67 mW

The power density at 20 cm from the antenna = EIRP /  $4\pi R^2$ = 0.0043 mW cm<sup>-2</sup>

In the frequency range of 1,500 - 100,000MHz, the MPE limit is 1.0 mWcm<sup>-2</sup> for general population and uncontrolled exposure. As the measured power density at 20cm from the transmitter is lower than the MPE limit, the compliance to the MPE limit can be ensured by indicating the minimum 20cm separation between the transmitter's radiating structures and body of the user or nearby persons.

The following RF exposure statement is proposed to be included in the user manual:

"FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the base unit at least 20cm from nearby persons."