

## INTERTEK TESTING SERVICE

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Report No.: HK09101135-1

### RF Exposure Evaluation

For Specific Absorption Rate (SAR) evaluation of the Transmitter Unit, with reference to TCB Exclusions List revised on July 17, 2002, portable transmitters with output power less than low threshold and operating within 2.5cm from person's body can be certified by TCB without the SAR evaluation. The output power for portable transmitters is defined as the higher of the conducted or radiated (EIRP) source-based time averaging output power. And the low threshold is equal to  $(60/f\text{GHz})$  mW for  $d < 2.5\text{cm}$ , where fGHz is mid-band frequency in GHz, and d is the distance from the portable transmitter to a person's body, excluding hands, wrists, feet, and ankles.

For the Transmitter Unit of the tested model of 33-283, the measured peak conducted power was 1.73 mW. The maximum source-based time averaging duty factor is 2.64%.

$$\begin{aligned} &\text{The conducted source-based time averaging output power} \\ &= (1.73 * 0.0264) \text{ mW} \\ &= 0.046 \text{ mW} \end{aligned}$$

The measured maximum field strength (FS) was 98.3 dB $\mu$ V/m. The distance (D) between the antenna and the equipment under test (EUT) was 3 meters. From these data, the radiated (EIRP) source-based time-averaging output power can be calculated by:

$$\begin{aligned} &\text{The radiated power} = (FS * D)^2 / 30 \text{ mW} \\ &= 2.0 \text{ mW} \\ &\text{The radiated (EIRP) source-based time-averaging output power} \\ &= (2.0 * 0.0264) \text{ mW} \\ &= 0.054 \text{ mW} \end{aligned}$$

The low threshold in the 2400 – 2483.5MHz band is 25 mW.

From the above calculation, output power obtained in both method is less than low threshold, it is concluded that the handset can be certified by TCB without the SAR evaluation.