## **Radio Frequency Exposure Information**

For AT&T 2230 LC (low cost) 2.4GHz Cordless Telephone

## Handset :

Readings from test report :

(1) Max. Output Power – Ant. A = 0.1W; Ant. B = 0.08W

(2) Duty cycle -750us x10 / 100ms = 7.5% (measured in single slot transmission)

Under the worst environment with interference, dual slot diversity gives the max. duty cycle on the handset Tx (ie. 7.5% x2 or 15%)

Hence, taking the max. power output & max. duty cycle, the average effective output power is :  $0.1W \ge 15\% = 0.015W$  or 15mW

<u>Conclusion : The average effective output power is much lower than the 50mW level (Supplement C, Table 1) which starts to require SAR testing. Hence, there is no RF exposure concerns on handset.</u>

## Base :

Readings from test report :

(1) Max. Output Power – 0.15W

(2) Duty Cycle -750us x15 / 100ms = 11.25% (with single handset & dummy carriers)

The phone is a TDD, FHSS. So, the worst case is actually operating with 4 handsets (750us x40 / 100ms, or 30%).

Hence, taking the worst case, the average effective output power is :  $0.15W \ge 30\% = 0.045W$  or 45mW

Conclusion : The base of a cordless phone system is not normally operated close to the users as that of the handset. Together with the low average effective output power, the base is also with no concerns on RF exposure.

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