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Radio Frequency Exposure Information For VTech 2625 2.4GHz Cordless Telephones

Handset (Tx / Rx: 2.4GHz)

Readings from test report :

(1) Page 34 -- Max. Output Power = 103 mW (20.1 dBm)

(2) Page 43 -- Duty cycle = $10 \times 850\mu\text{s} / 100\text{ms} = 8.5\%$ (measured in single slot transmission)

Under the worst environment with interference, dual slot diversity gives the max. duty cycle on the handset Tx (ie. $8.5\% \times 2$ or 17%)

Hence, taking the max. power output & max. duty cycle, the average effective output power is :

$$103 \text{ mW} \times 17\% = 17.51 \text{ mW}$$

Conclusion : The average effective output power is lower than the 25mW (ie.60/freq.) threshold which starts to require SAR testing. Hence, there is no RF exposure concerns on handset.

Base (Tx / Rx: 2.4GHz)

Readings from test report :

(1) Page 34 -- Max. Output Power = 115 mW (20.6 dBm)

(2) Page 42 -- Duty Cycle = $40 \times 800\mu\text{s} / 100\text{ms} = 32\%$

The phone is a TDD, FHSS. The testing was done at the worst case with 4 Tx carrier, equivalent to operating with 2 handsets in dual-slot diversity.

Hence, taking the worst case, the average effective output power is :

$$115 \text{ mW} \times 32\% = 37 \text{ mW}$$

Conclusion : The average effective output power is lower than the 50mW (ie.120/freq.) threshold which starts to require RF safety evaluation. Hence, there is no RF exposure concerns on base.

Provided by :

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