

Exercise 1: Is a phone call half-duplex, full-duplex or simplex?

How about a radio broadcast? A typical taxi dispatch radio?

Phone Call = Full Duplex

Radio Broadcast = Simplex

Taxi Dispatch = Half-Duplex

Exercise 2: The GSM TDMA frame duration is approximately 5ms. What frequency would you expect to hear if the GSM RF signal was rectified and output by a speaker?

$$\underline{200\text{Hz}} \left(= \frac{1}{5\text{ms}} \right)$$