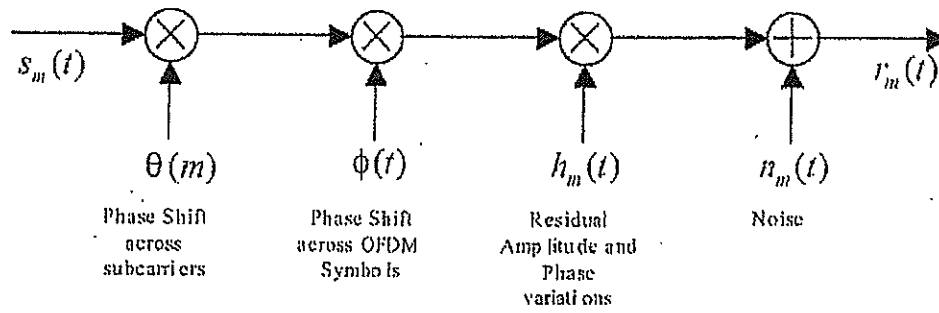
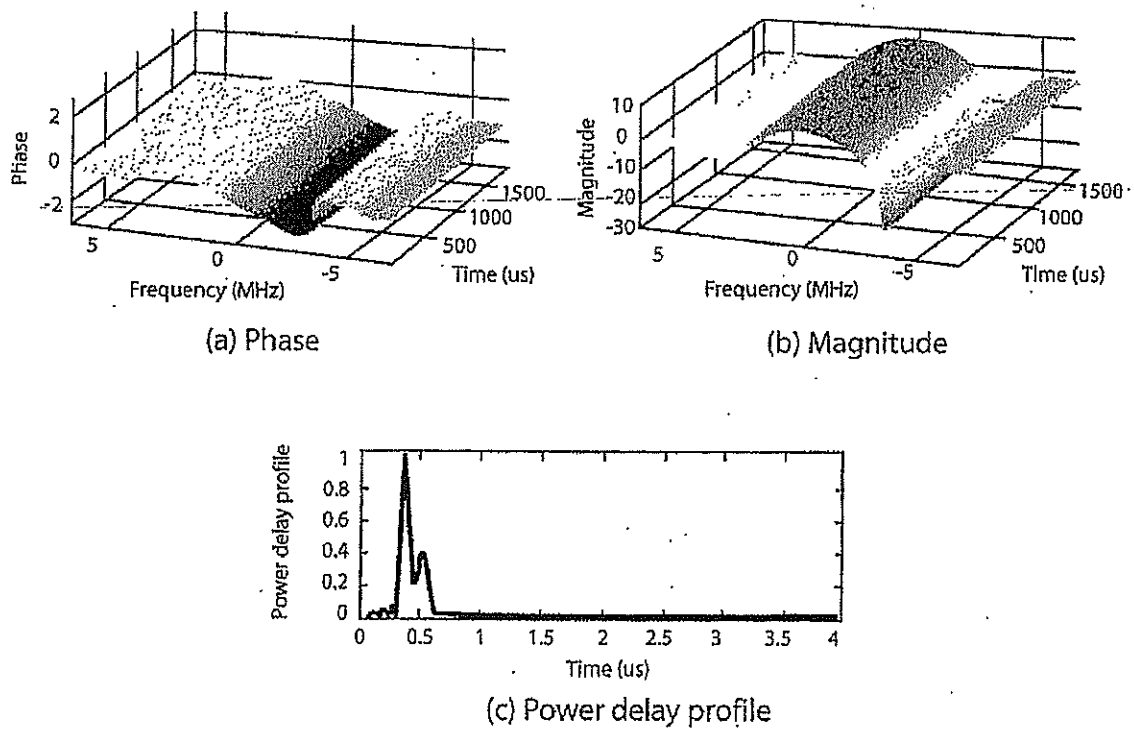


Figure 1

Figure 2
Indoor wireless channel (ETSI BRAN)

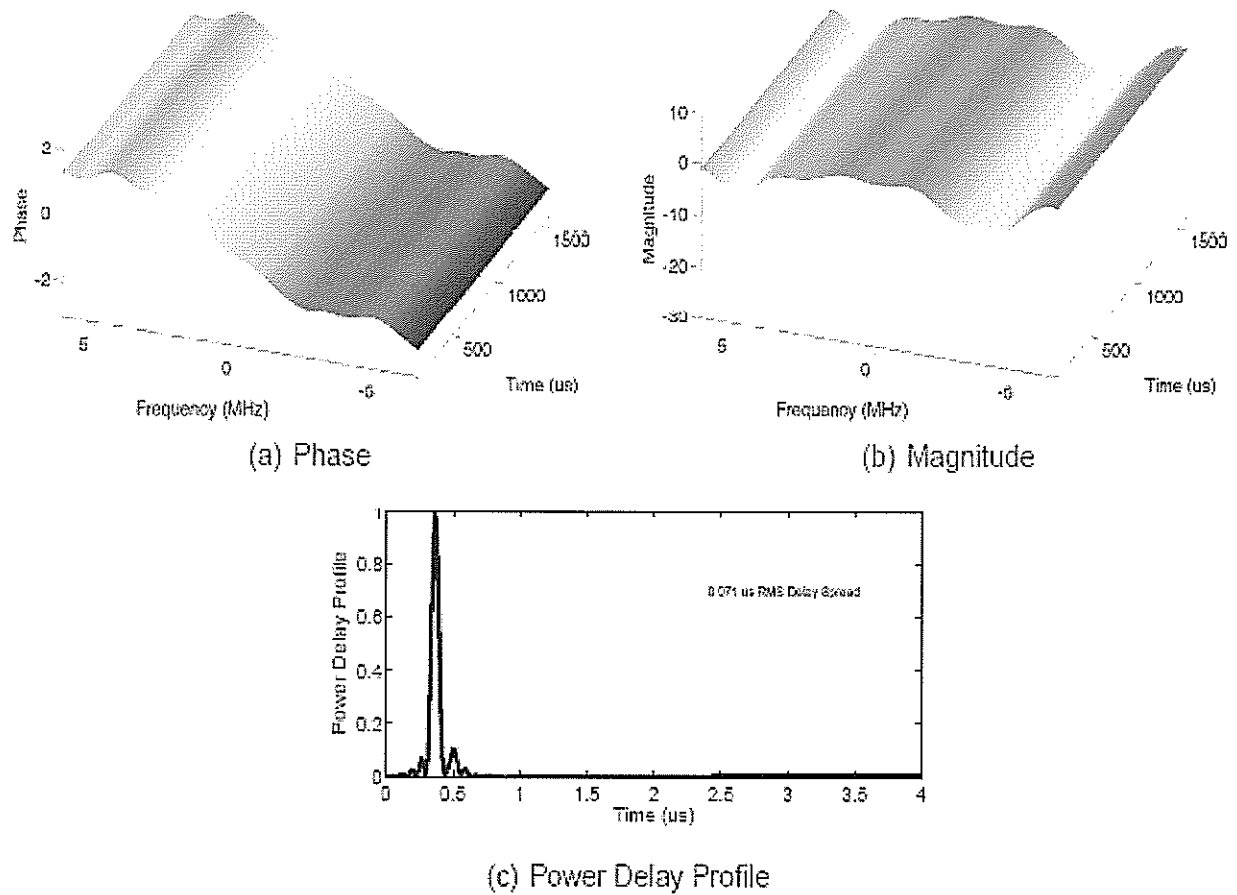


Figure 3: Outdoor Stationary Wireless Channel in Near LOS (802.20 Case-I)

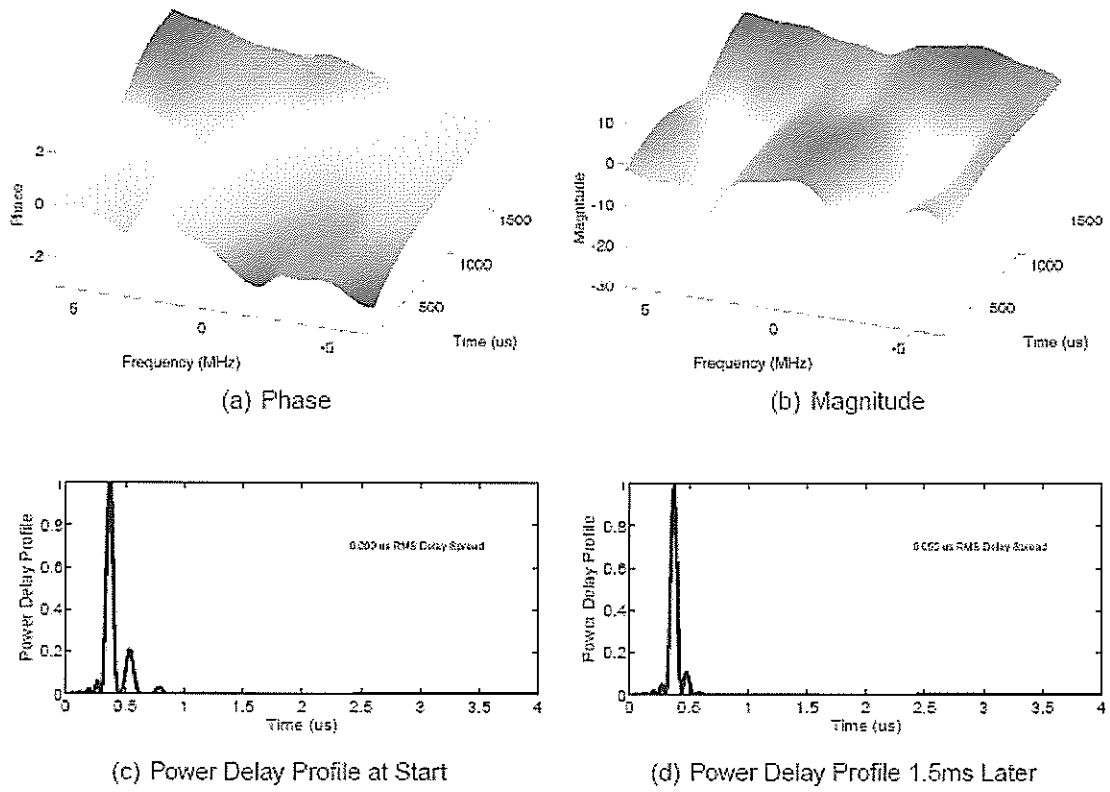


Figure 4: Outdoor Mobile Wireless Channel in Near LOS (802.20 Case-I at 70 mph)

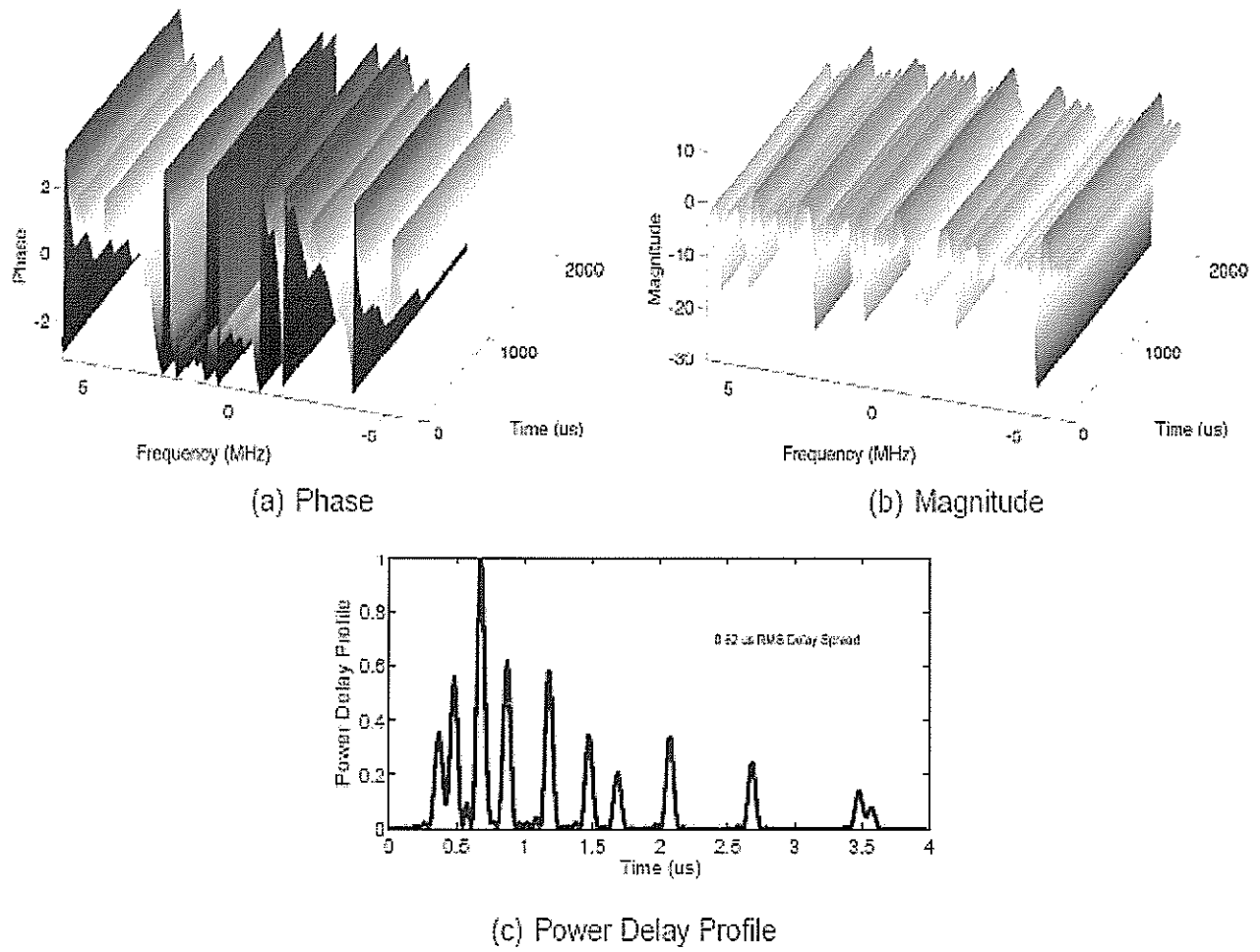


Figure 5: Outdoor Stationary Wireless Channel in NLOS (802.20 Case-IV)

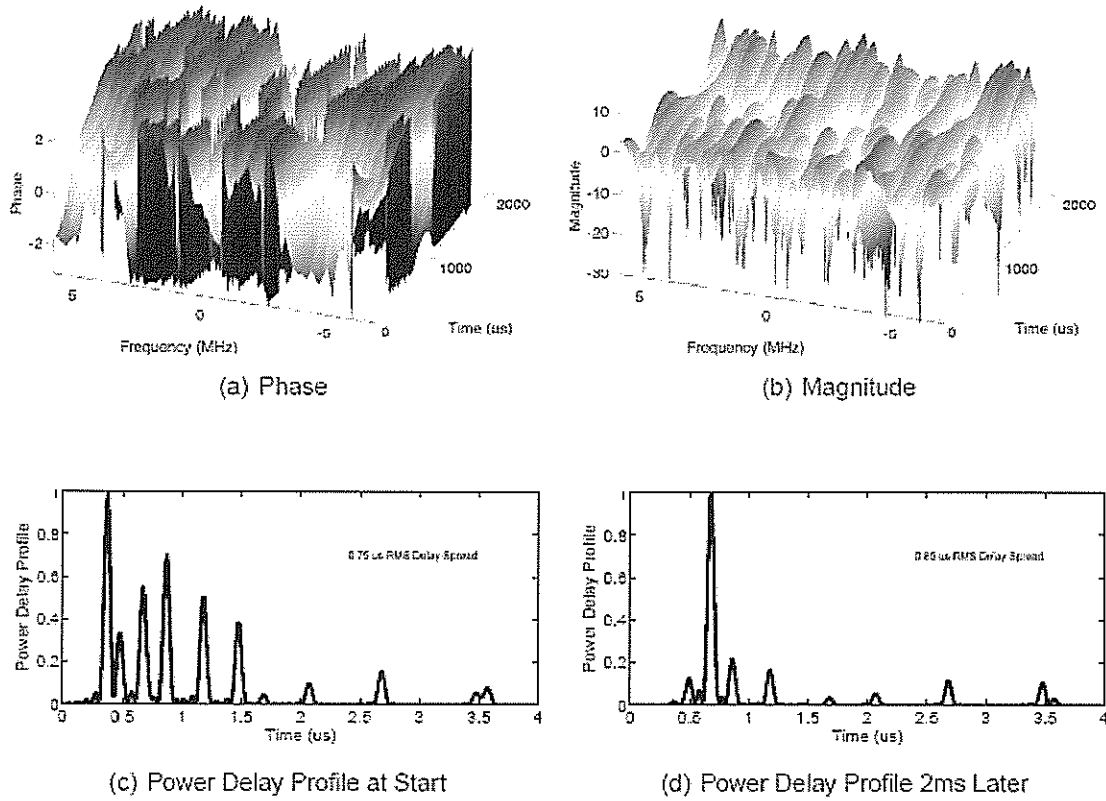
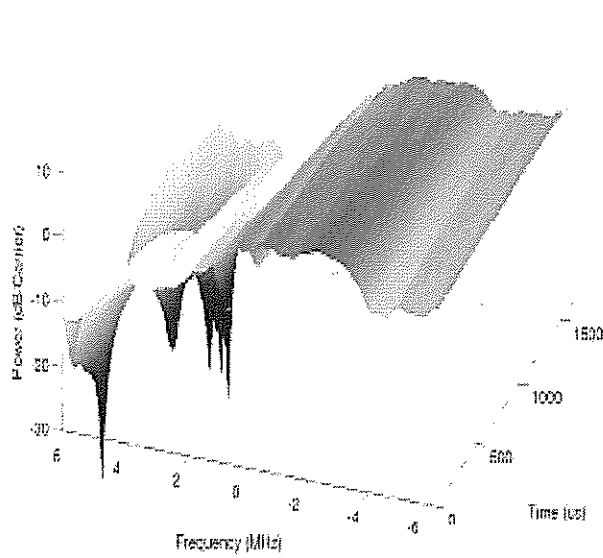
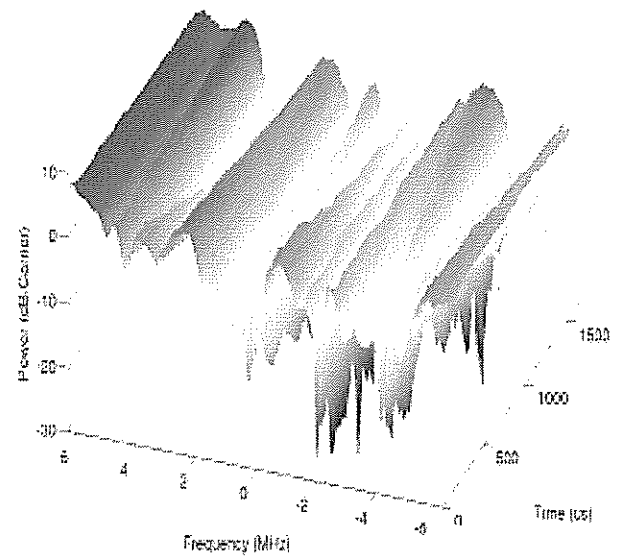


Figure 6: Outdoor Mobile Wireless Channel in NLOS (802.20 Case-IV at 135 mph)

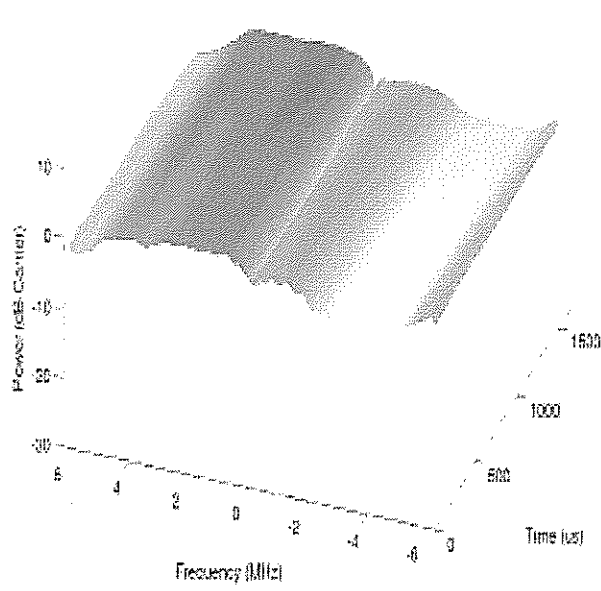


(a) Short Delay Channel

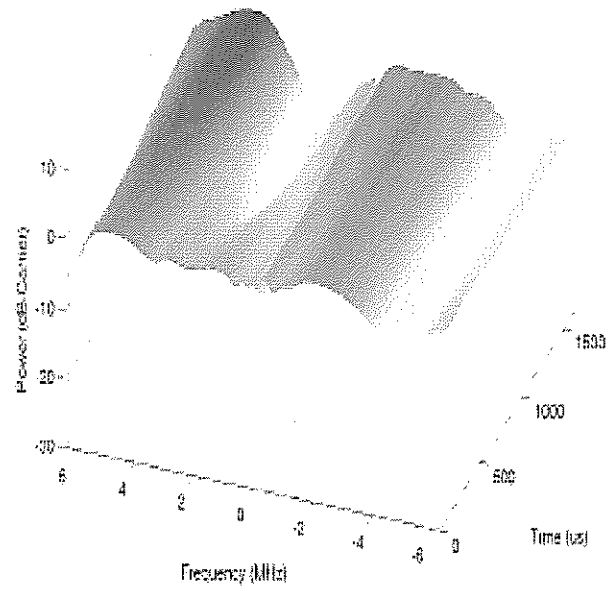


(b) Long Delay Channel

Figure 7: Mobile Channel Captures at 60 mph



(a) Antenna 1



(b) Antenna 2

Figure 8: Radio Channel to Two Antennas 1m Apart

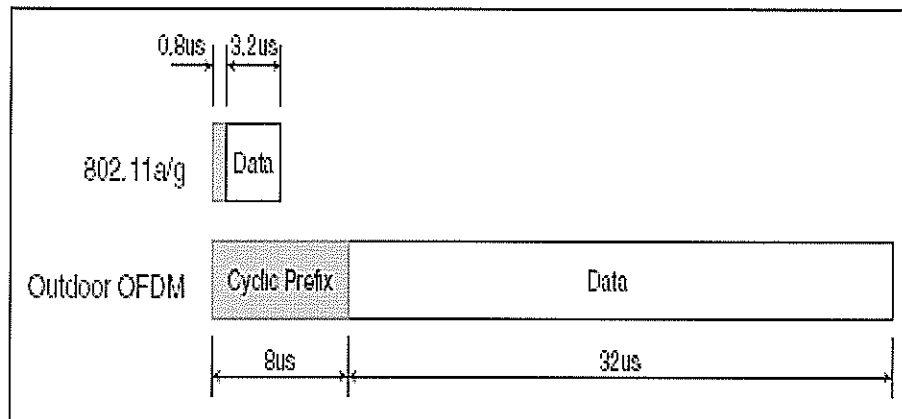


Figure 9: OFDM Symbol Dimensions

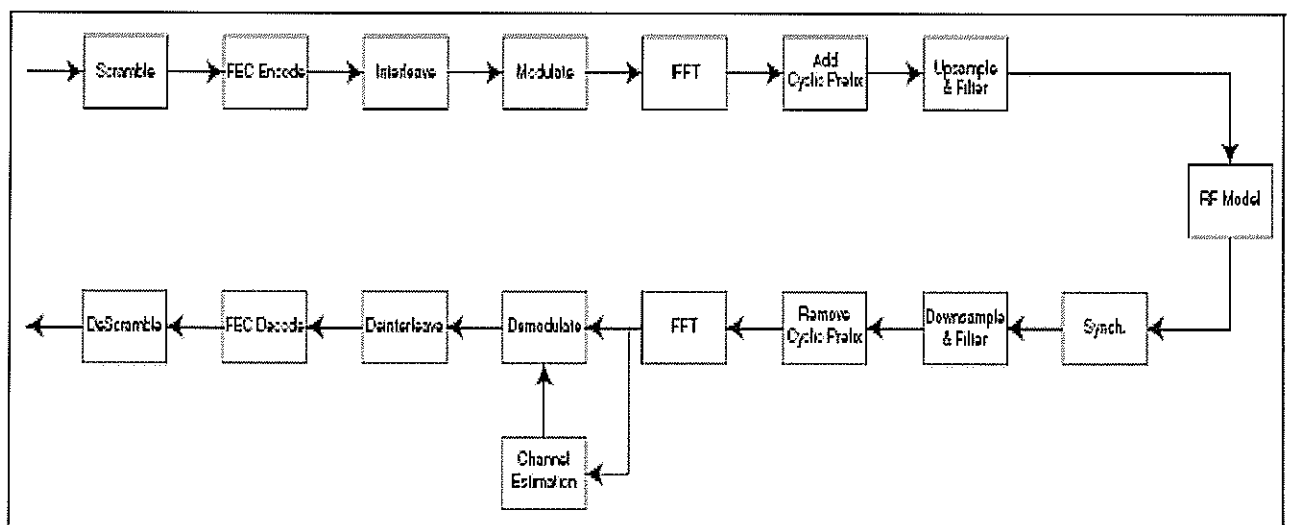


Figure 10: Conventional OFDM PHY System Model

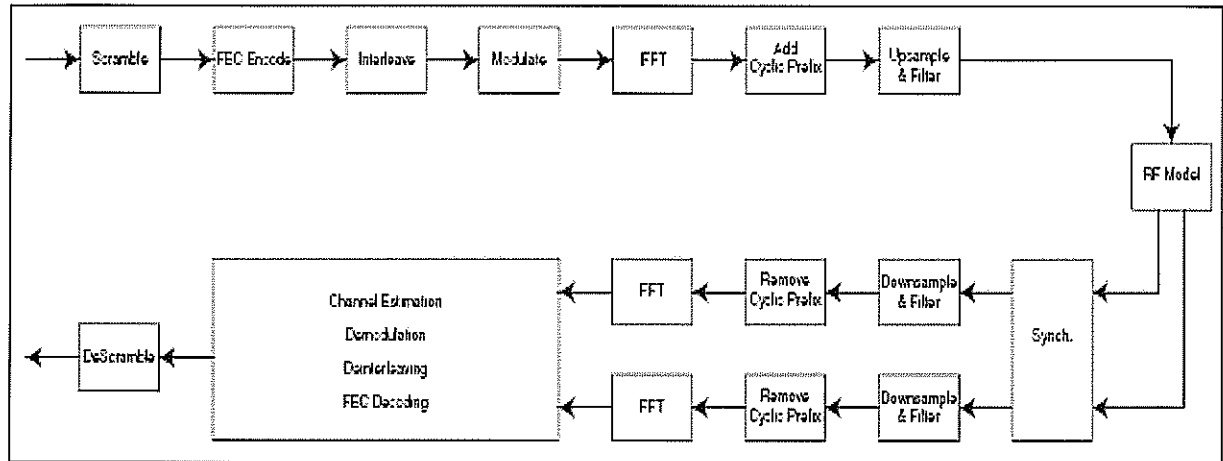


Figure 11: Generalized OFDM PHY System Model with Multiple Receive Antennas

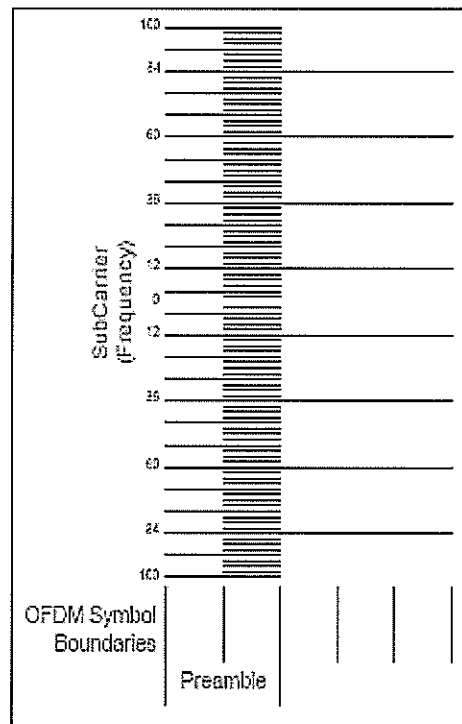


Figure 12: 802.16a OFDM Downlink Pilot and Preamble Structure

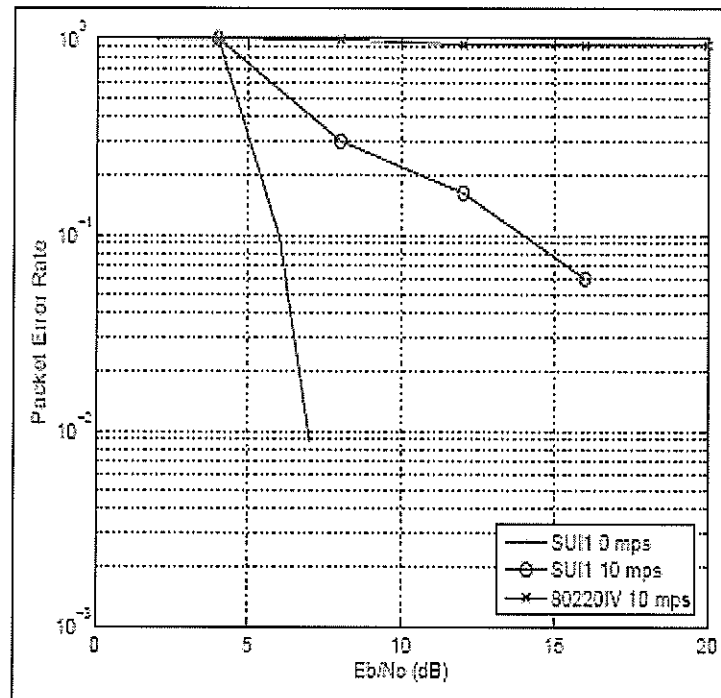


Figure 13: Packet Error Rate with Conventional Pilot Assisted Phase Tracking

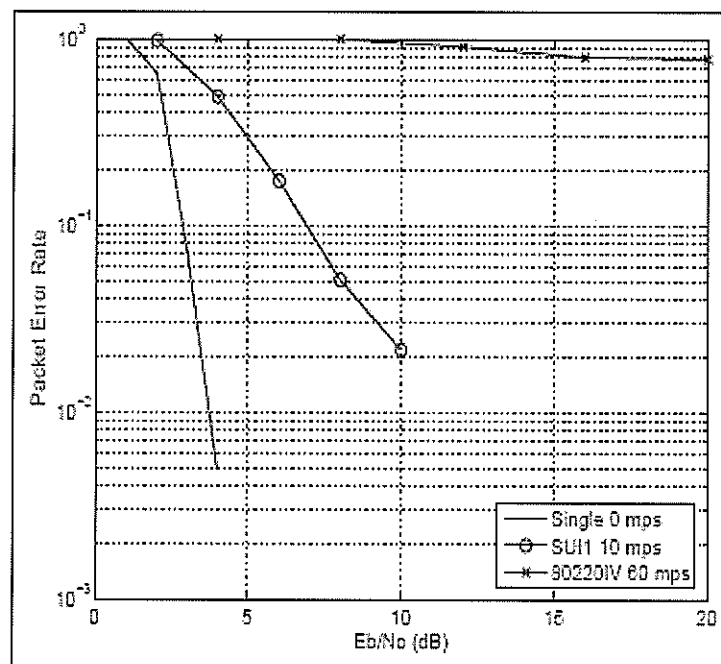


Figure 14: Packet Error Rate with Conventional Pilot Assisted Channel Tracking

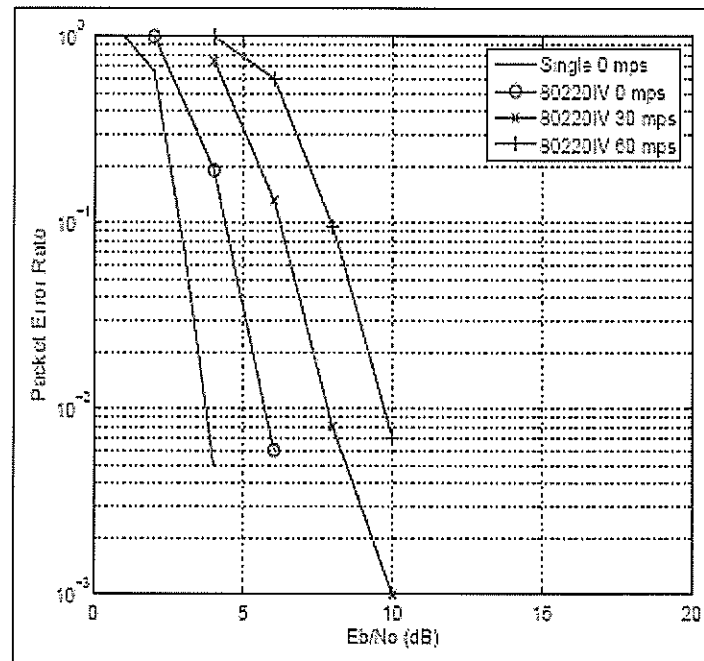
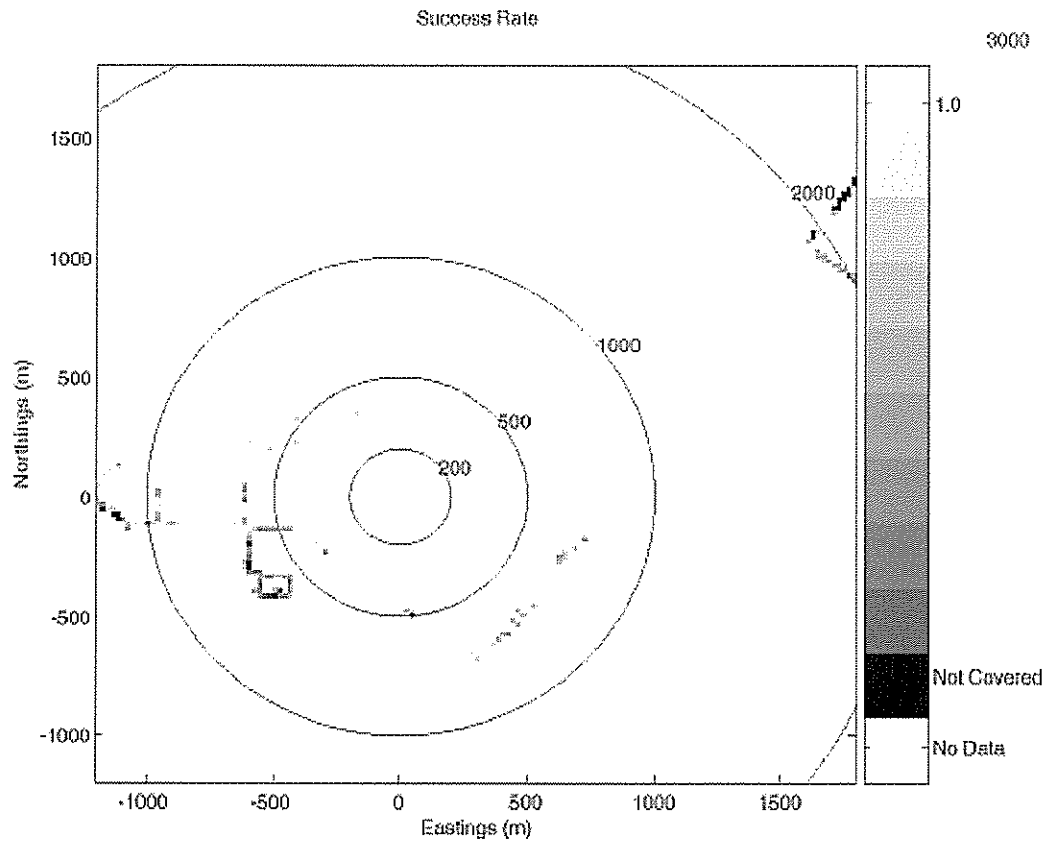


Figure 15: Packet Error Rate with Accurate Channel Tracking

**FIGURE 16 10 Mbps Coverage**

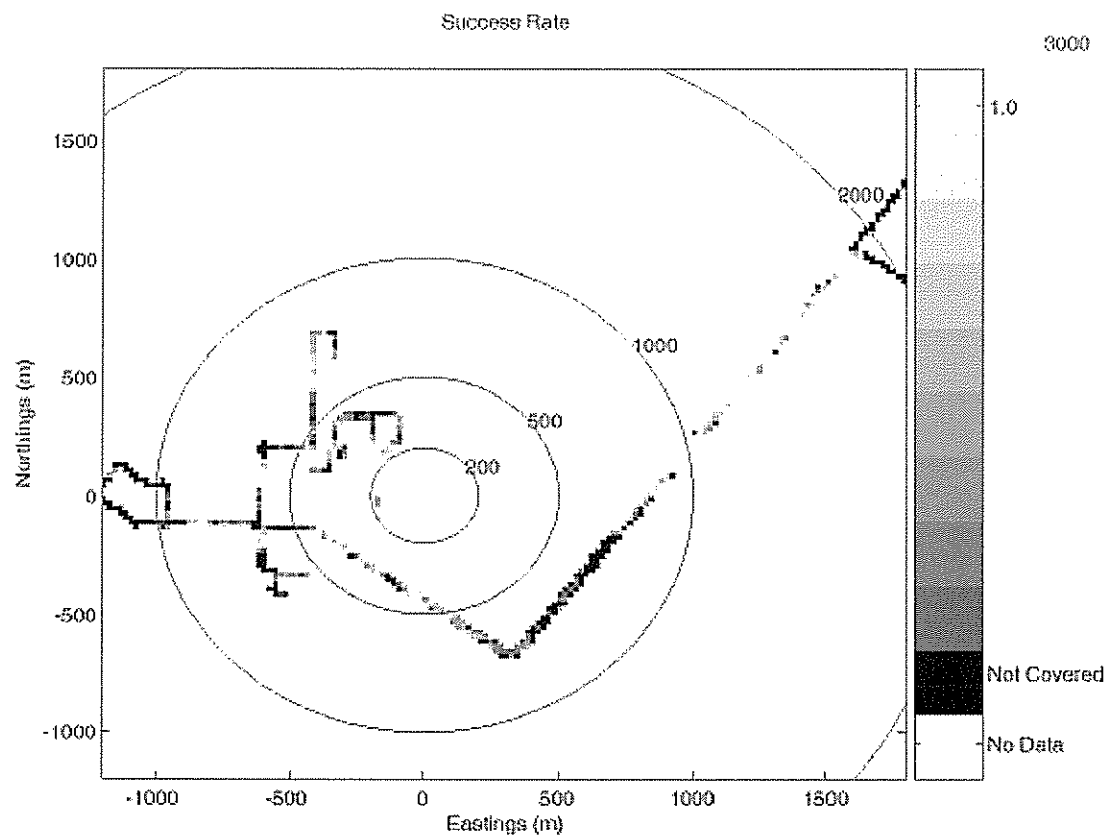


Figure 17: Best Grade 6 Mbps 802.11g Coverage

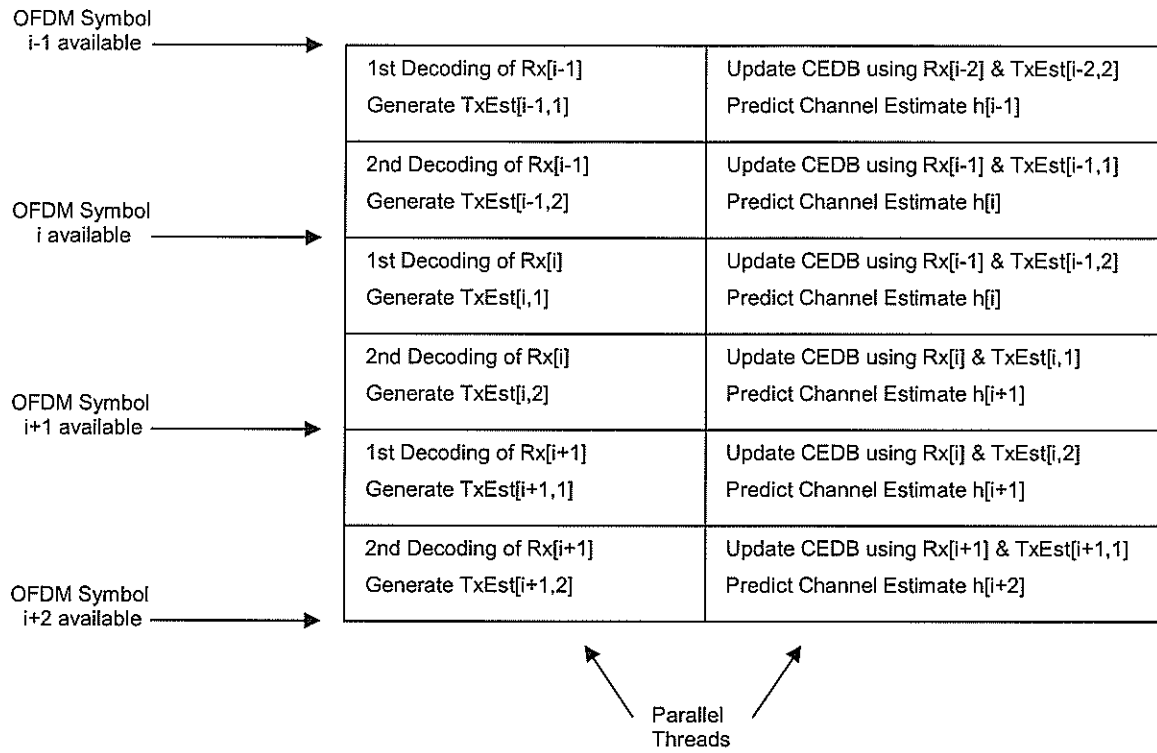


FIGURE 18

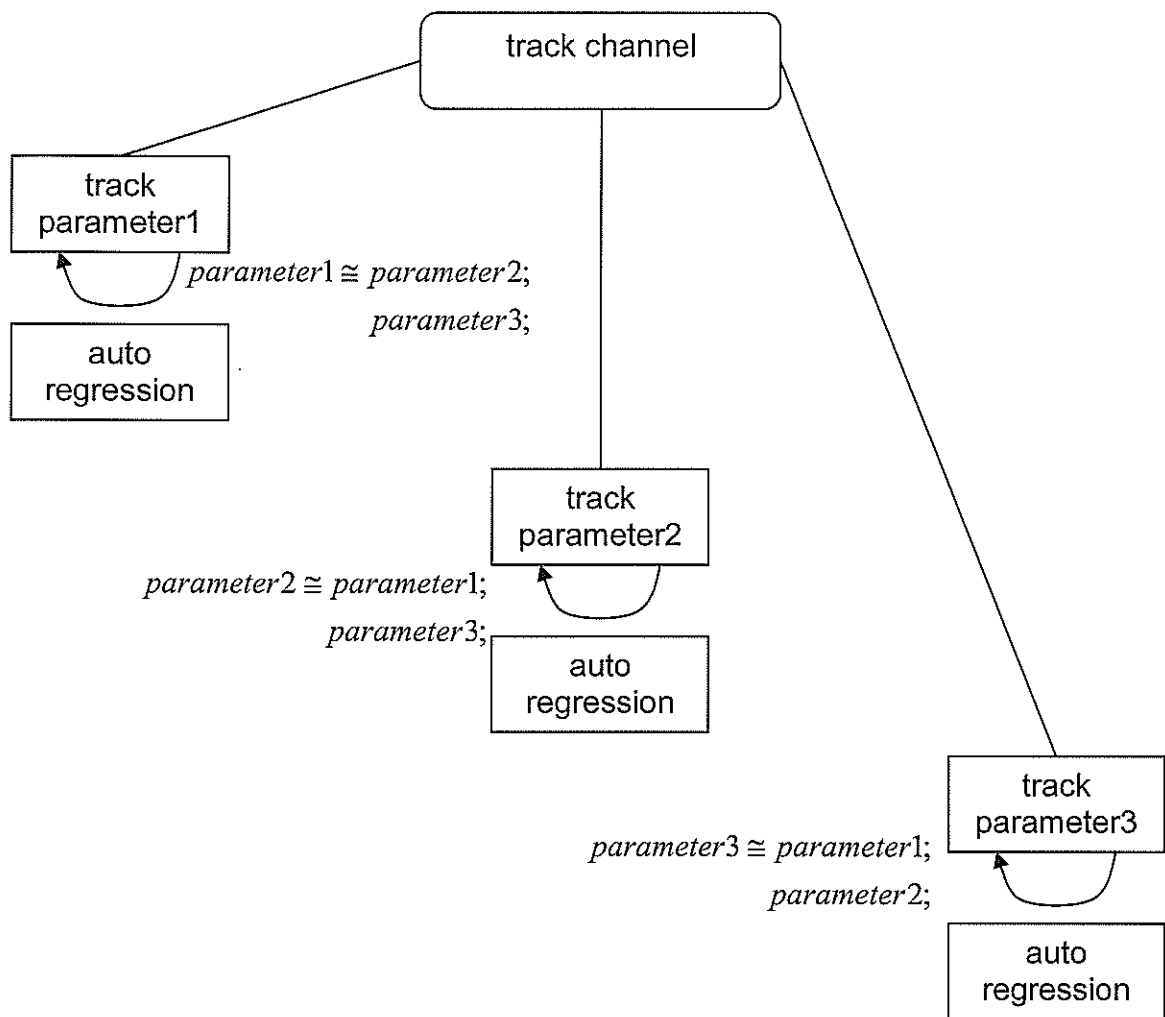
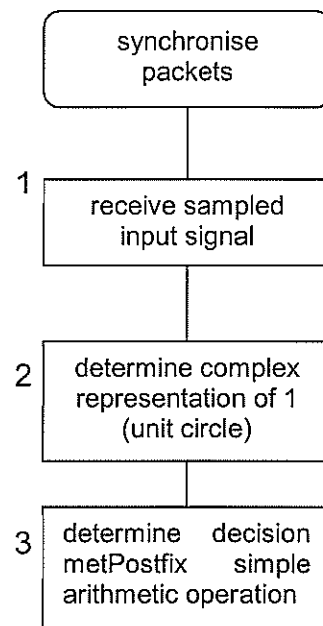
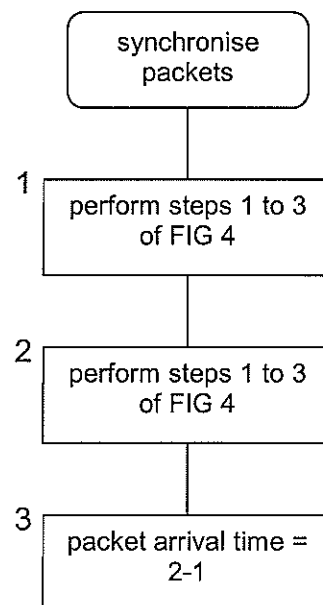


FIGURE 19

**Figure 20****Figure 21**

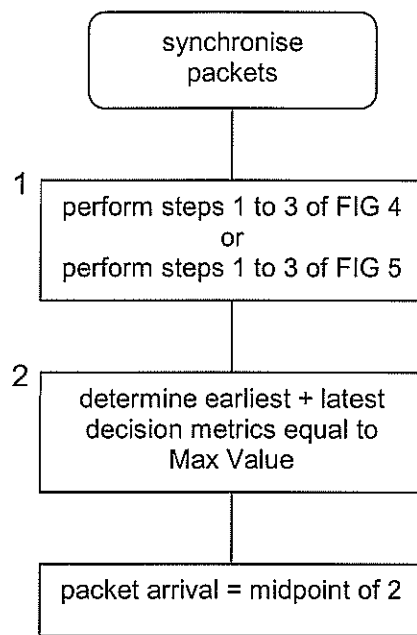


Figure 22

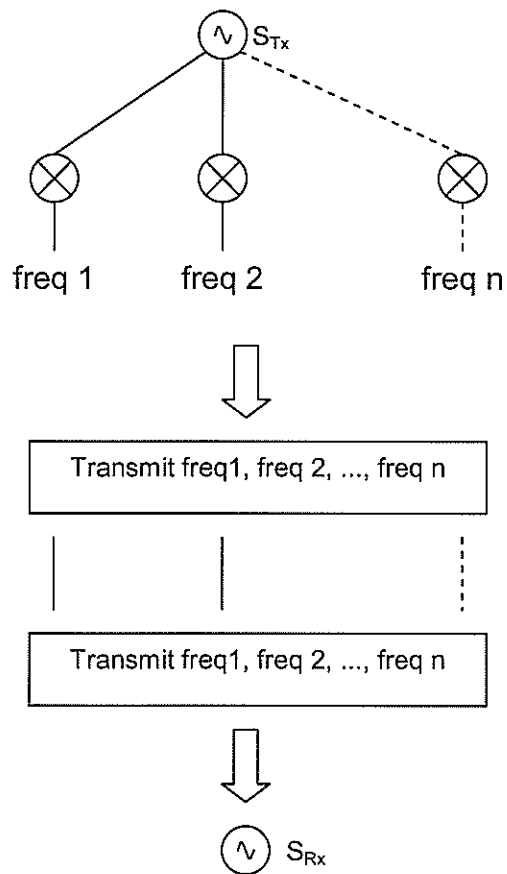
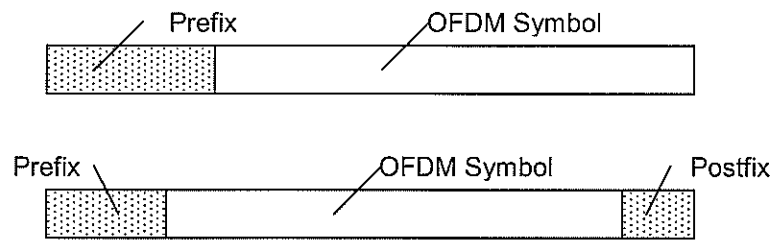
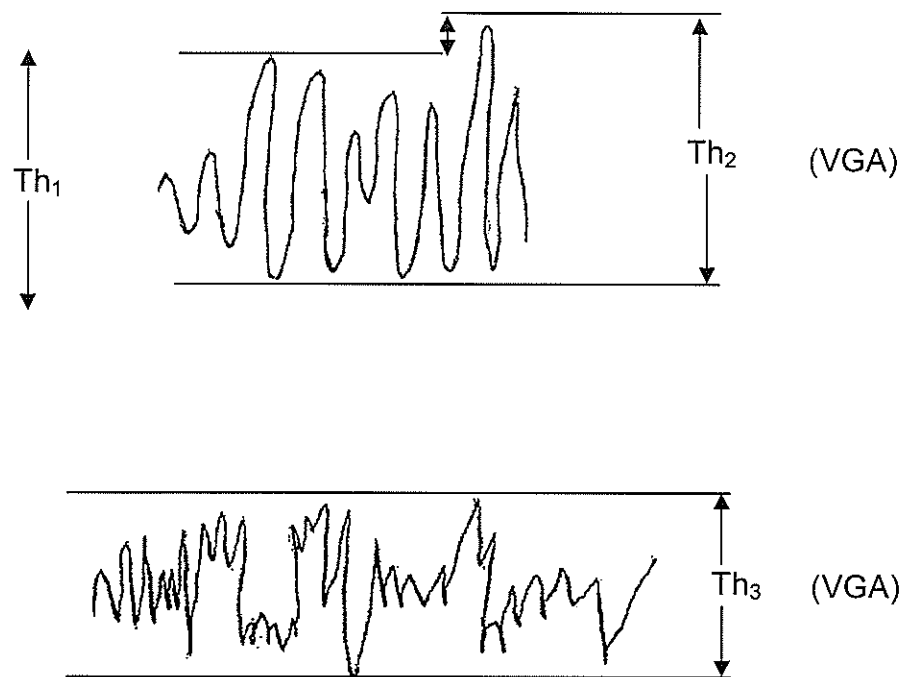
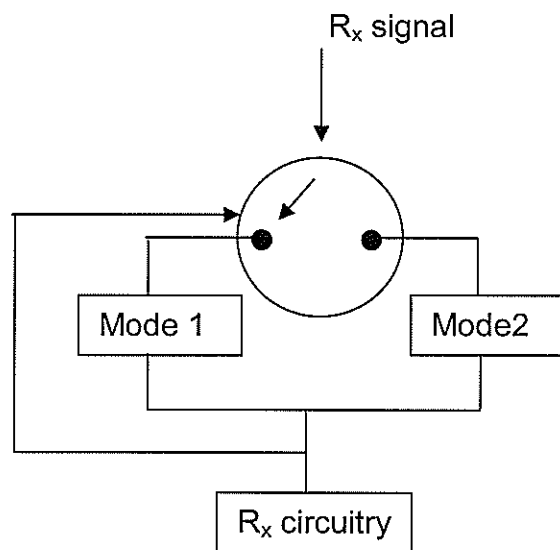


Figure 23

**Figure 24**

**Figure 25A****Figure 25B**