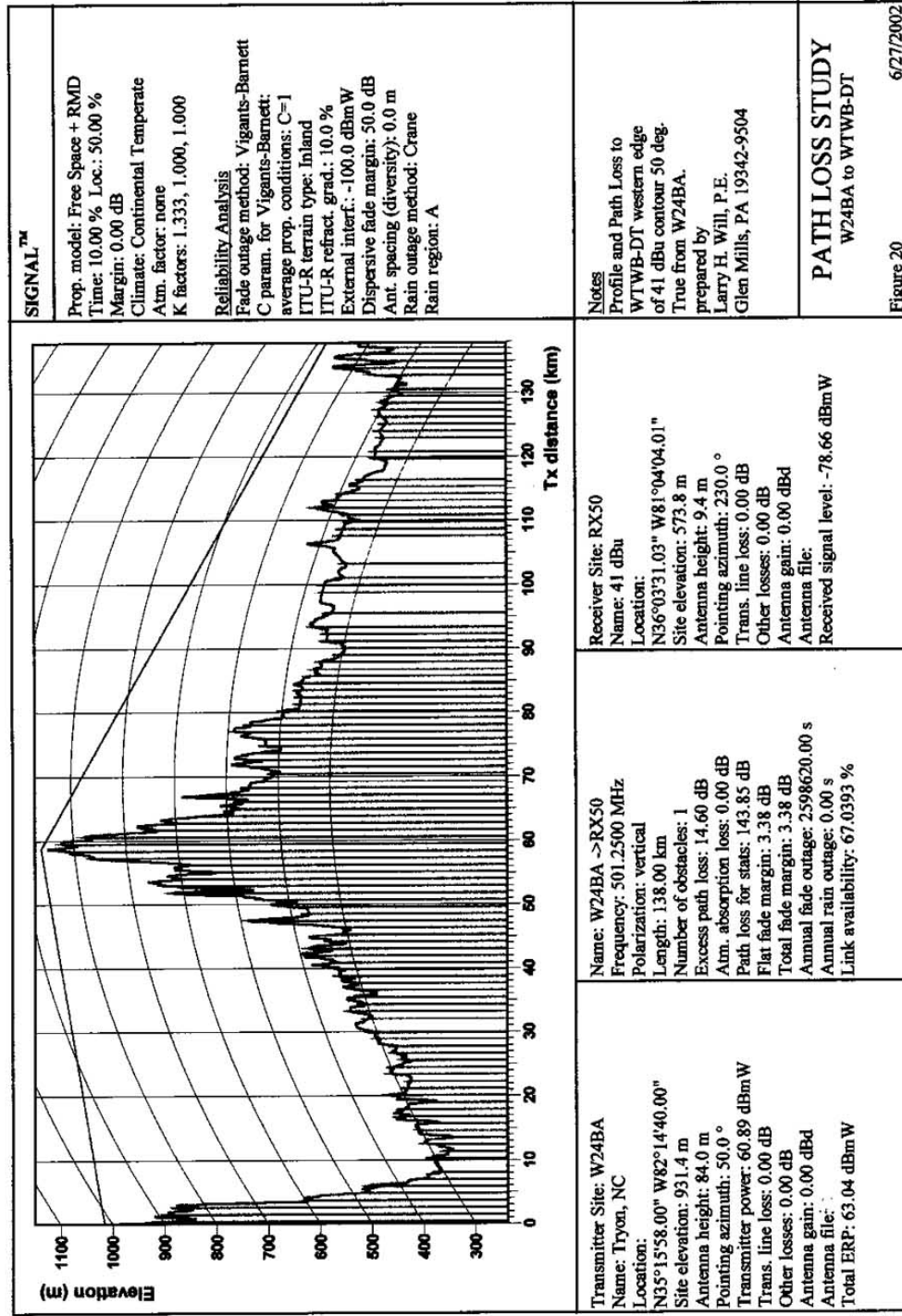


**Transmitter Site: W24BA**  
 Name: Tryon, NC  
 Location:  
 N35°15'58.00" W82°14'40.00"  
 Site elevation: 931.4 m  
 Antenna height: 84.0 m  
 Pointing azimuth: 43.0°  
 Transmitter power: 60.89 dBmW  
 Trans. line loss: 0.00 dB  
 Other losses: 0.00 dB  
 Antenna gain: 0.00 dBd  
 Antenna file:  
 Total ERP: 63.04 dBmW

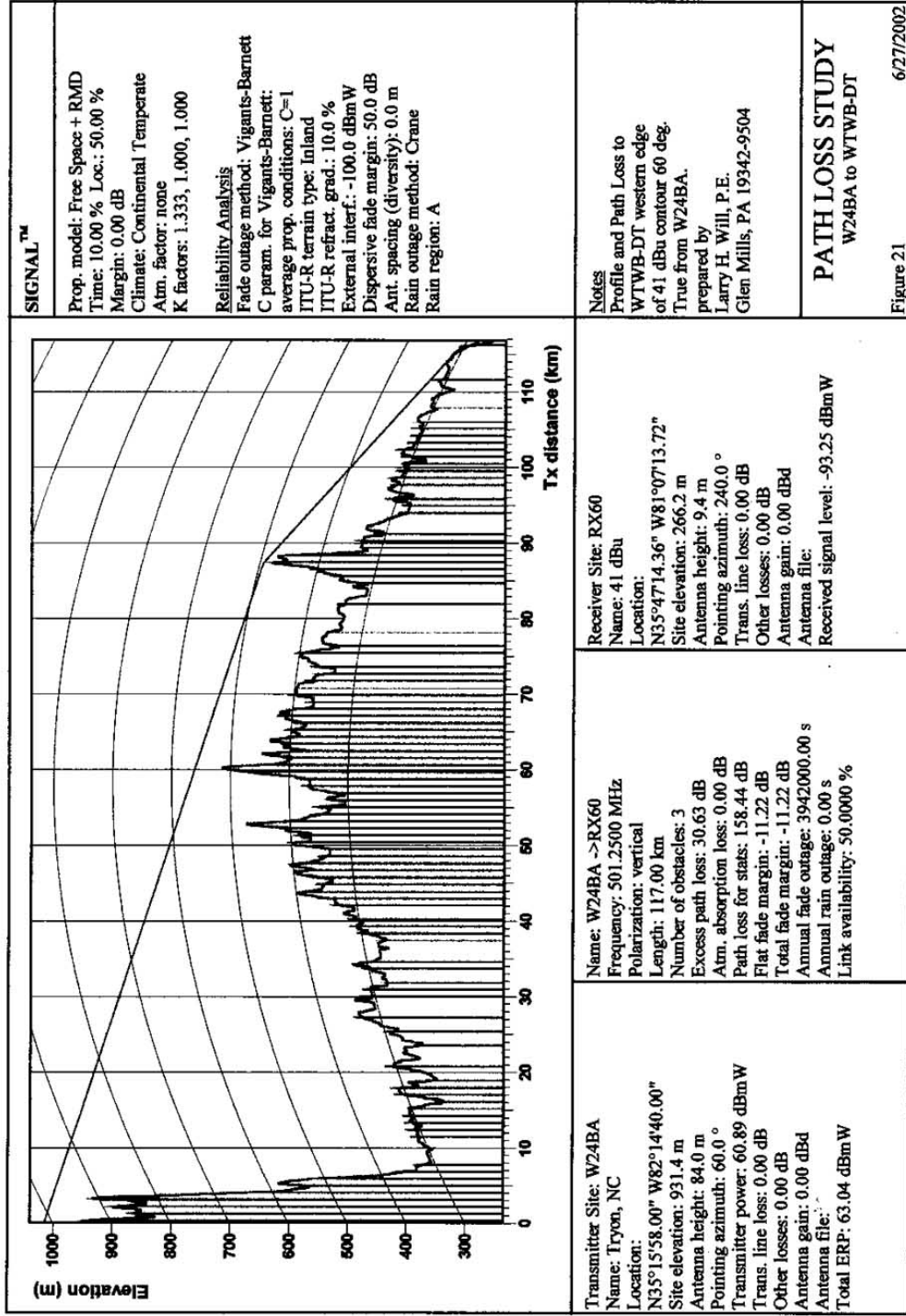
**Receiver Site: RX43**  
 Name: 41 dBu  
 Location:  
 N36°26'34.64" W80°52'16.88"  
 Site elevation: 426.3 m  
 Antenna height: 9.4 m  
 Pointing azimuth: 223.0°  
 Trans. line loss: 0.00 dB  
 Other losses: 0.00 dB  
 Antenna gain: 0.00 dBd  
 Antenna file:  
 Received signal level: -107.28 dBmW

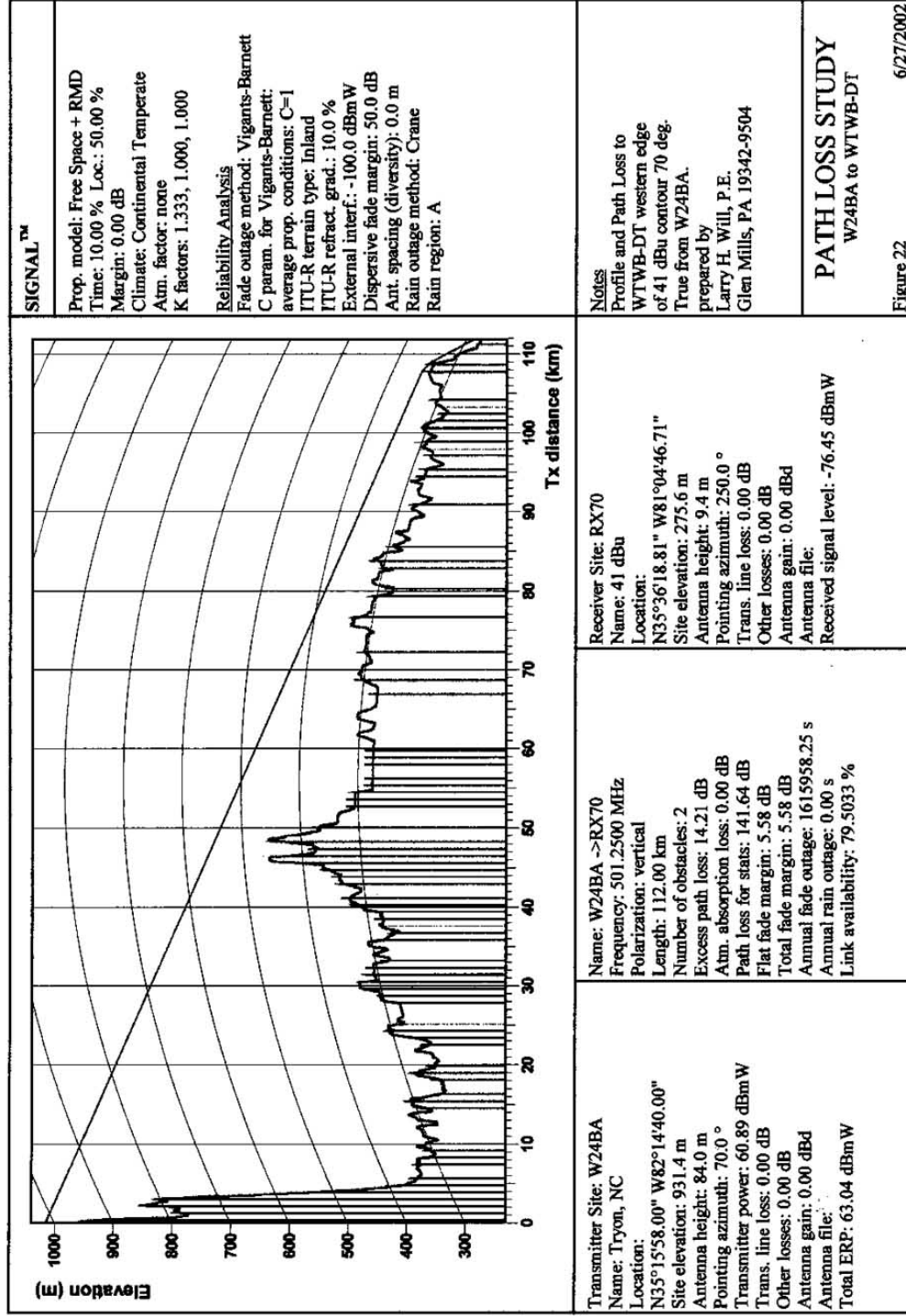
**Path Loss Summary:**  
 Name: W24BA -> RX43  
 Frequency: 501.2500 MHz  
 Polarization: vertical  
 Length: 180.00 km  
 Number of obstacles: 2  
 Excess path loss: 40.91 dB  
 Atm. absorption loss: 0.00 dB  
 Path loss for status: 172.47 dB  
 Flat fade margin: -25.25 dB  
 Total fade margin: -25.25 dB  
 Annual fade outage: 3942000.00 s  
 Annual rain outage: 0.00 s  
 Link availability: 50.0000 %

Link Study: trn/W24BA-RX50.trn



Link Study: trn/W24BA-RX60.trn





Link Study: trn/W24BA-RX80.trn

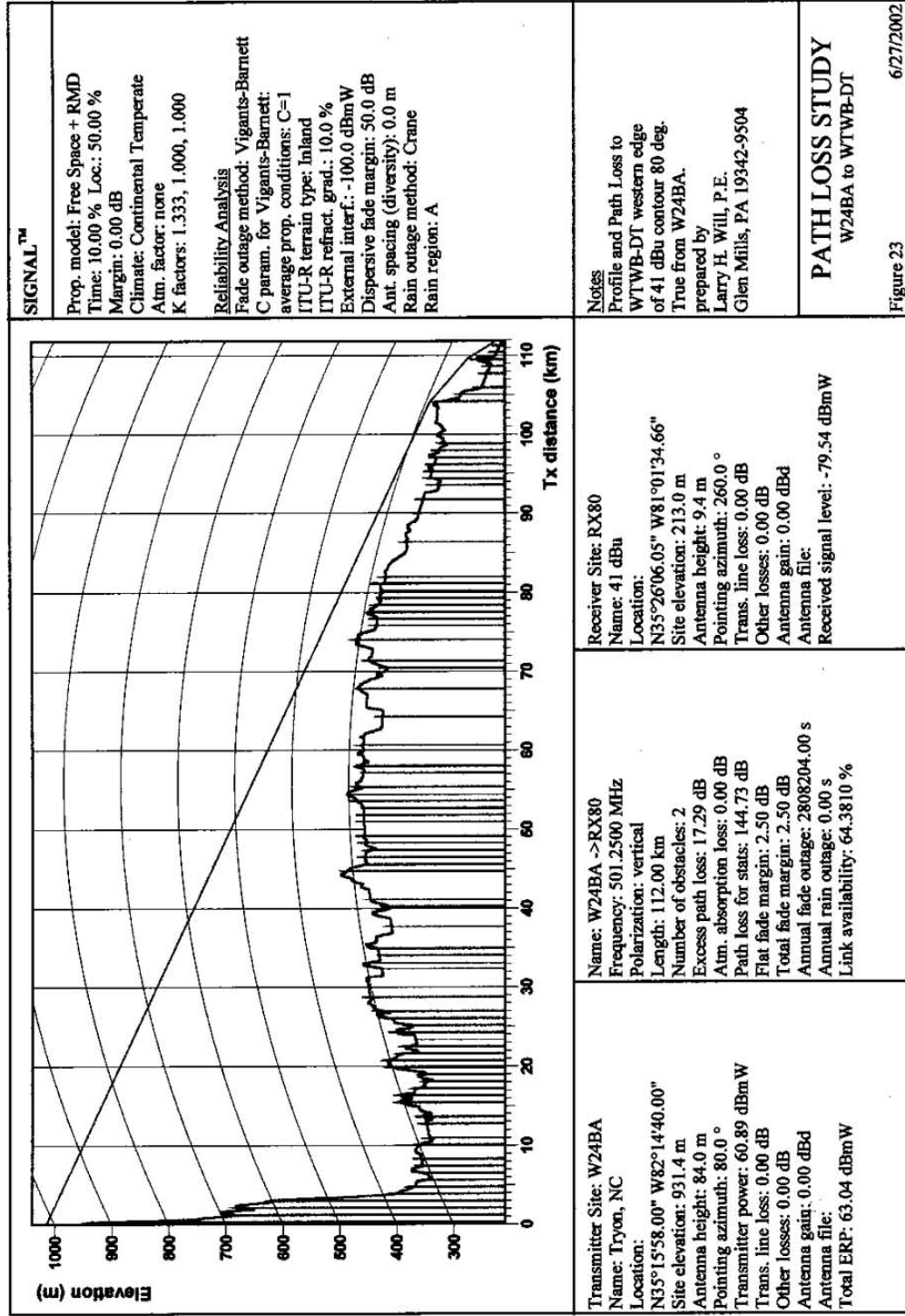
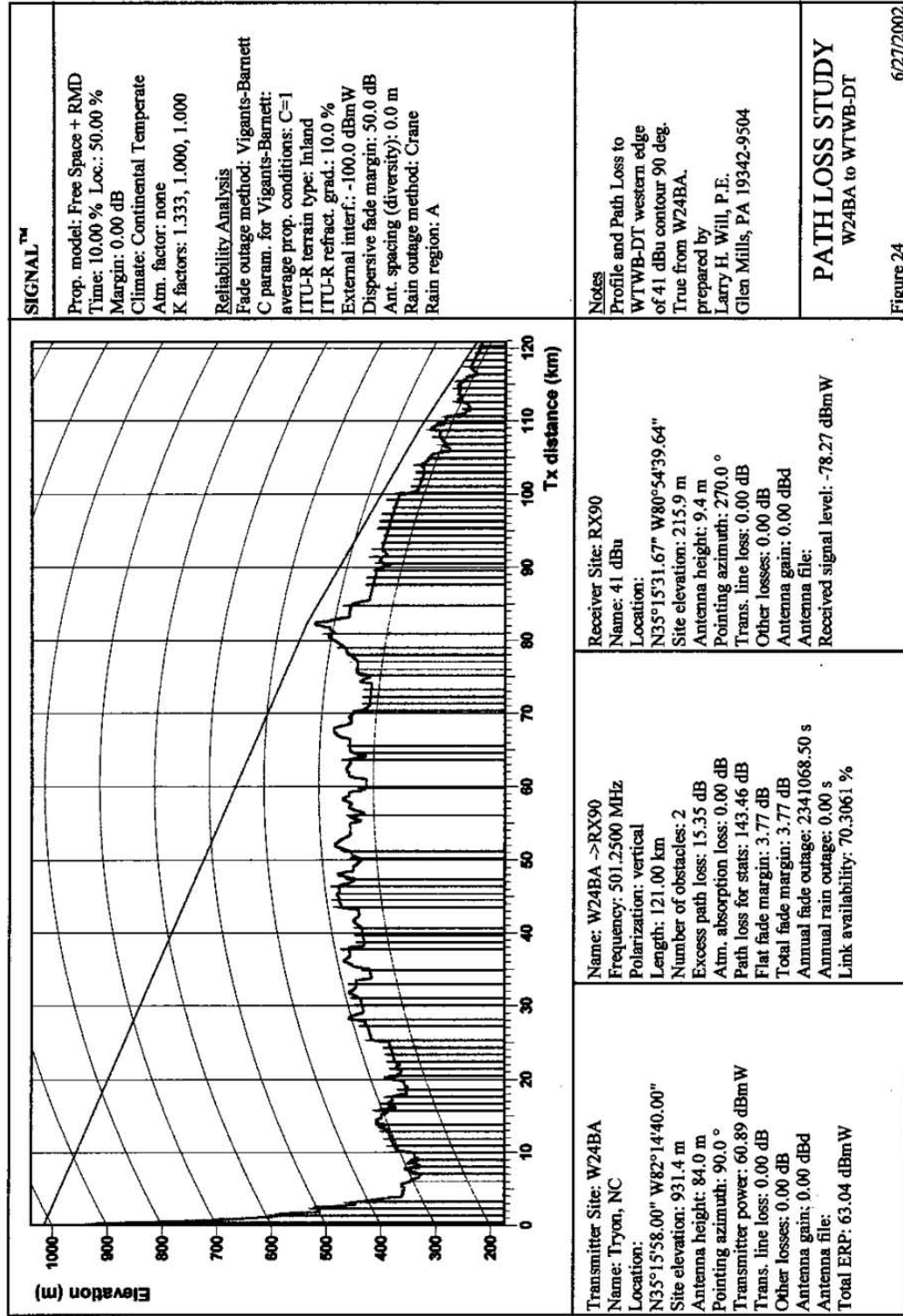


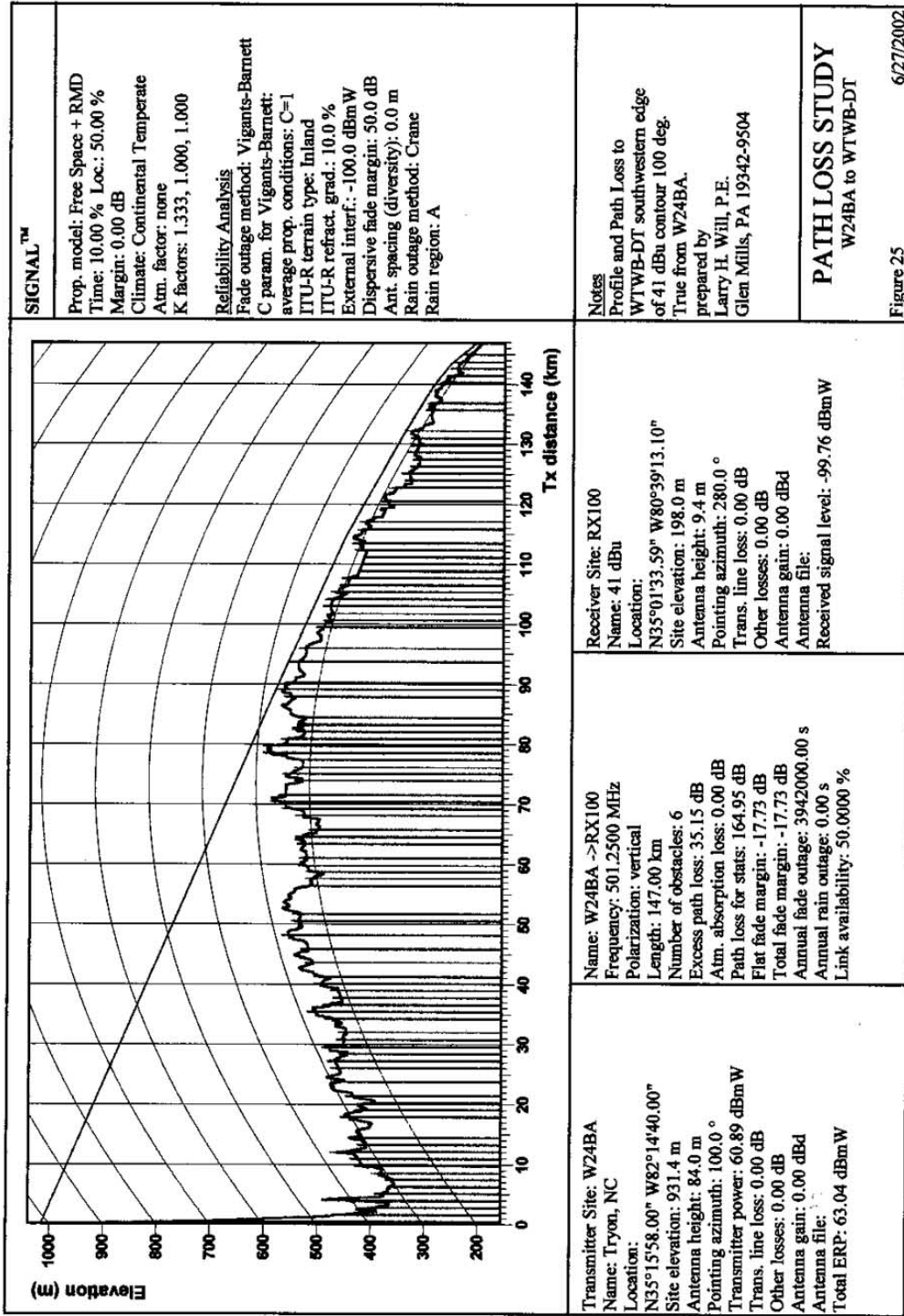
Figure 23

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Link Study: trn/W24BA-RX90.trn

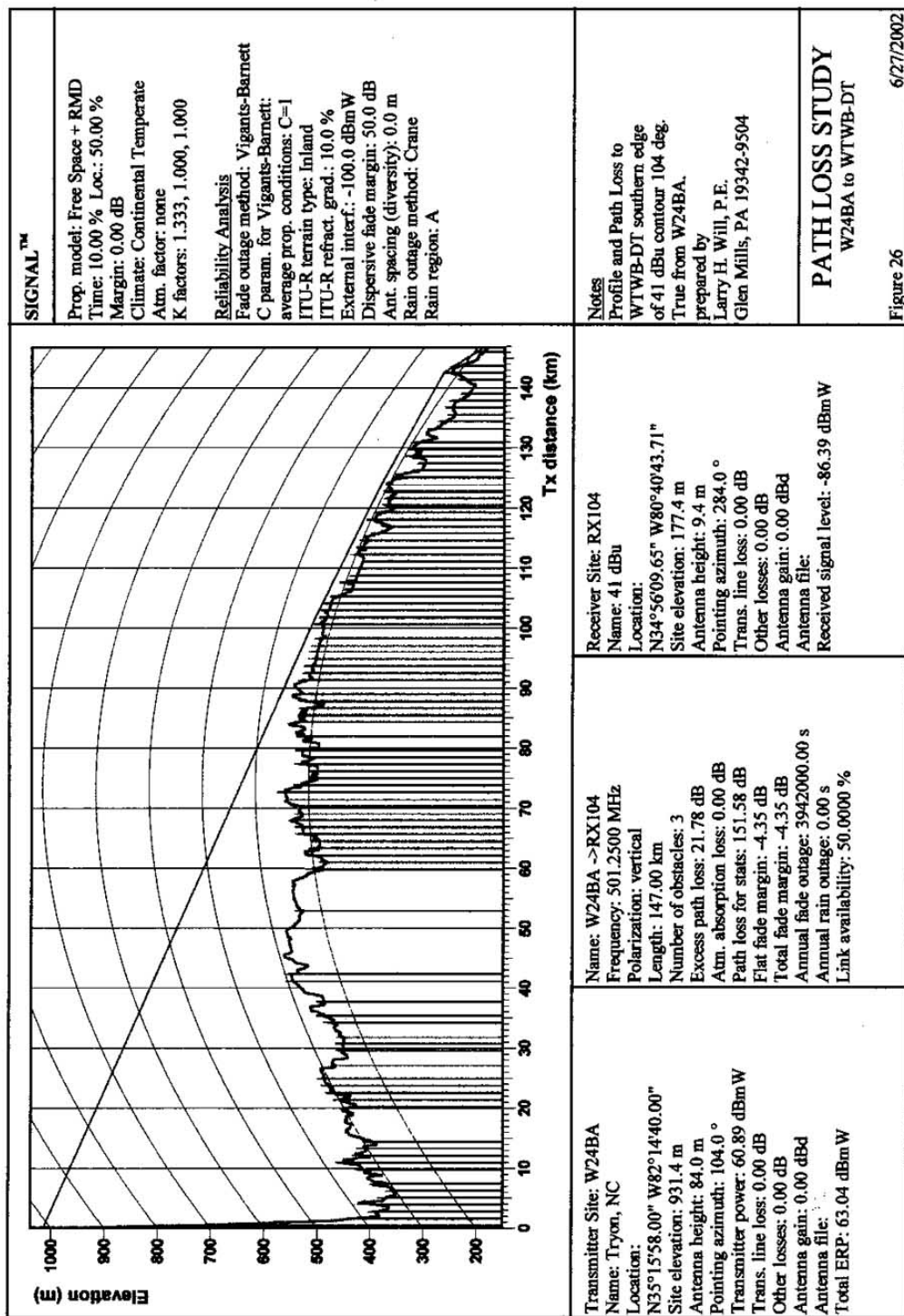


Link Study: trn/W24BA-RX100.trn





Link Study: trn/W24BA-RX104.trn



6/27/2002