

LIST OF FIGURES

	Page
Figure 2.1. Anderson Mountain transmitter site showing mast and antenna mount....	13
Figure 2.2. View looking north from Anderson Mountain.....	14
Figure 2.3. Van with trailer at Pidcoke transmitter site.....	15
Figure 2.4. Measurement crew at Pidcoke transmitter site.....	15
Figure 2.5. Anderson Mountain transmitter site and drive route, Ft. Hood, Texas....	16
Figure 2.6. Pidcoke transmitter site and drive route, Ft. Hood, Texas.....	16
Figure 4.1. Basic transmission loss scatterplot, Anderson Mountain transmitter site.	17
Figure 4.2. Basic transmission loss scatterplot, Pidcoke transmitter site.....	18
Figure 4.3. Basic transmission loss variance, Anderson Mt., 440 MHz.....	19
Figure 4.4. Basic transmission loss variance (trailer), Anderson Mt. 1360 MHz.....	19
Figure 4.5. Basic transmission loss variance (van), Anderson Mt., 1360 MHz.....	20
Figure 4.6. Basic transmission loss variance, Anderson Mt., 1920 MHz.....	20
Figure 4.7. Basic transmission loss variance, Pidcoke, 440 MHz.....	21
Figure 4.8. Basic transmission loss variance (trailer), Pidcoke, 1360 MHz.....	21
Figure 4.9. Basic transmission loss variance (van), Pidcoke, 1360 MHz.....	22
Figure 4.10. Basic transmission loss variance Pidcoke, 1920 MHz.....	22
Figure 4.11. Basic transmission loss map, 440 MHz, Anderson Mountain.....	23
Figure 4.12. Basic transmission loss map, 1360 MHz (low antenna), Anderson Mountain.....	23
Figure 4.13. Basic transmission loss map, 1360 MHz (high antenna), Anderson Mountain.....	24
Figure 4.14. Basic transmission loss map, 1920 MHz, Anderson Mountain.....	24

	Page
Figure 4.15. Basic transmission loss map, 440 MHz, Pidcoke.....	25
Figure 4.16. Basic transmission loss map, 1360 MHz (low antenna), Pidcoke.....	25
Figure 4.17. Basic transmission loss map, 1360 MHz (high antenna), Pidcoke.....	26
Figure 4.18. Basic transmission loss map, 1920 MHz, Pidcoke.....	26
Figure 4.19. Basic transmission loss differential for low versus high 1360 MHz receive antennas from Anderson Mountain transmitter.....	27
Figure 4.20. Basic transmission loss differential for low versus high 1360 MHz receive antennas from Pidcoke transmitter site.....	27
Figure 5.1. Idealized impulse response diagram with descriptive terminology.....	28
Figure 5.2. Anderson Mt. 20 dB ID: maximum delay CDF.....	29
Figure 5.3. Anderson Mt. 20 dB ID: mean delay CDF.....	29
Figure 5.4. Anderson Mt. 20 dB ID: RMS delay spread CDF.....	30
Figure 5.5. Pidcoke 20 dB ID: maximum delay CDF.....	30
Figure 5.6. Pidcoke 20 dB ID: mean delay CDF.....	31
Figure 5.7. Pidcoke, 20 dB ID: RMS delay spread CDF.....	31
Figure 5.8. Anderson Mt. 10 dB ID: maximum delay CDF.....	32
Figure 5.9. Anderson Mt. 10 dB ID: mean delay CDF.....	32
Figure 5.10. Anderson Mt. 10 dB ID: RMS delay spread CDF.....	33
Figure 5.11. Pidcoke 10 dB ID: maximum delay CDF.....	33
Figure 5.12. Pidcoke 10 dB ID: mean delay CDF.....	34
Figure 5.13. Pidcoke 10 dB ID: RMS delay delay CDF.....	34
Figure 5.14. Delay spread (S) map, 440 MHz, Anderson Mountain transmitter site...	35
Figure 5.15. Delay spread (S) map, 1360 MHz (low antenna), Anderson Mountain transmitter site.....	35

Figure 5.16.	Delay spread (S) map, 1360 MHz (high antenna), Anderson Mountain transmitter site.....	36
Figure 5.17.	Delay spread (S) map, 1920 MHz, Anderson Mountain transmitter site...36	
Figure 5.18.	Delay spread (S) map, 440 MHz, Pidcoke transmitter site.....37	
Figure 5.19.	Delay spread (S) map, 1360 MHz (low antenna), Pidcoke transmitter site.....37	
Figure 5.20.	Delay spread (S) map, 1920 MHz, Pidcoke transmitter site.....38	
Figure A1.	Antenna patterns measured at Table Mountain showing gain above isotropic versus van azimuth.....40	
Figure A2.	Gain of 440 MHz Cushcraft transmitter dipole (NIST Chamber).....41	
Figure A3.	1360 MHz Larson receiving monopole pattern (NIST Chamber).....42	
Figure A4.	Gain of 440 MHz Cushcraft transmitter dipole (NIST Chamber)..... 43	
Figure A5.	1920 MHz Andrew receiving monopole (NIST Chamber)..... 45	