

APPENDIX: MEASURED IMPULSE RESPONSES

Figures A-1 through A-7 show the magnitude of the measured impulse response for configuration 3, mobile station location 9 for each of the 13 mobile station measurements listed in Table 4 of this report.

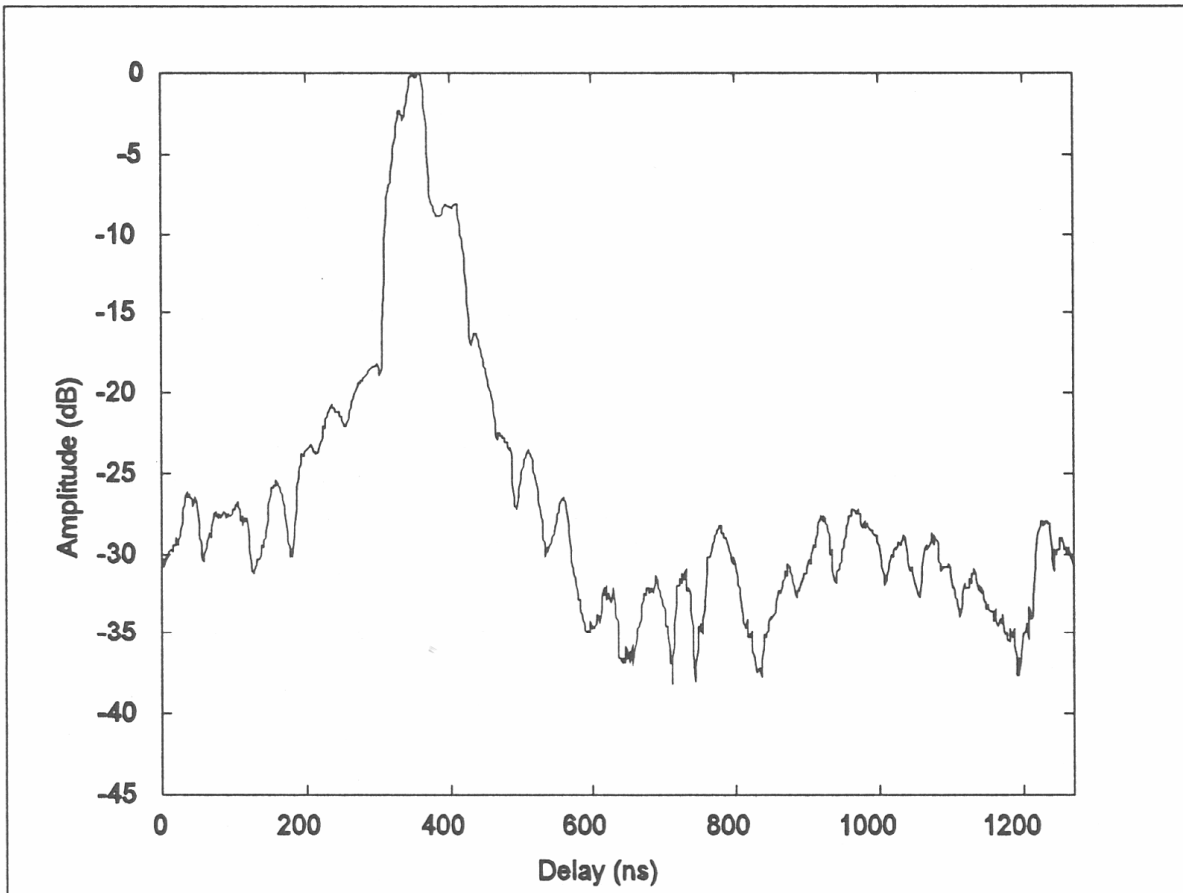
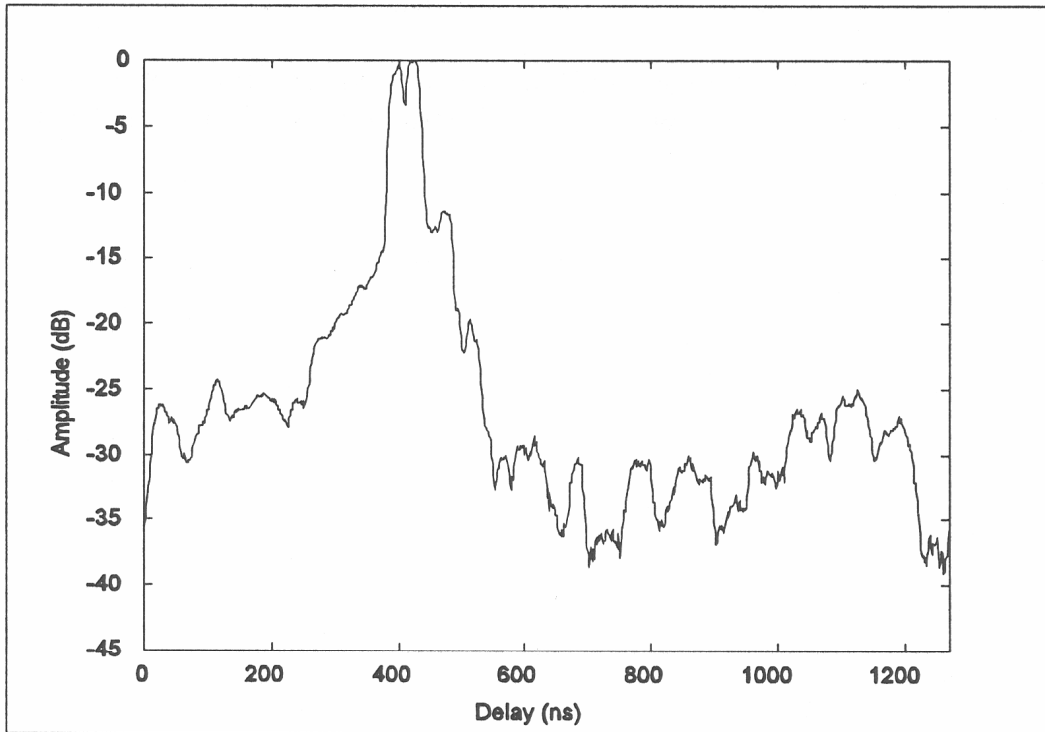
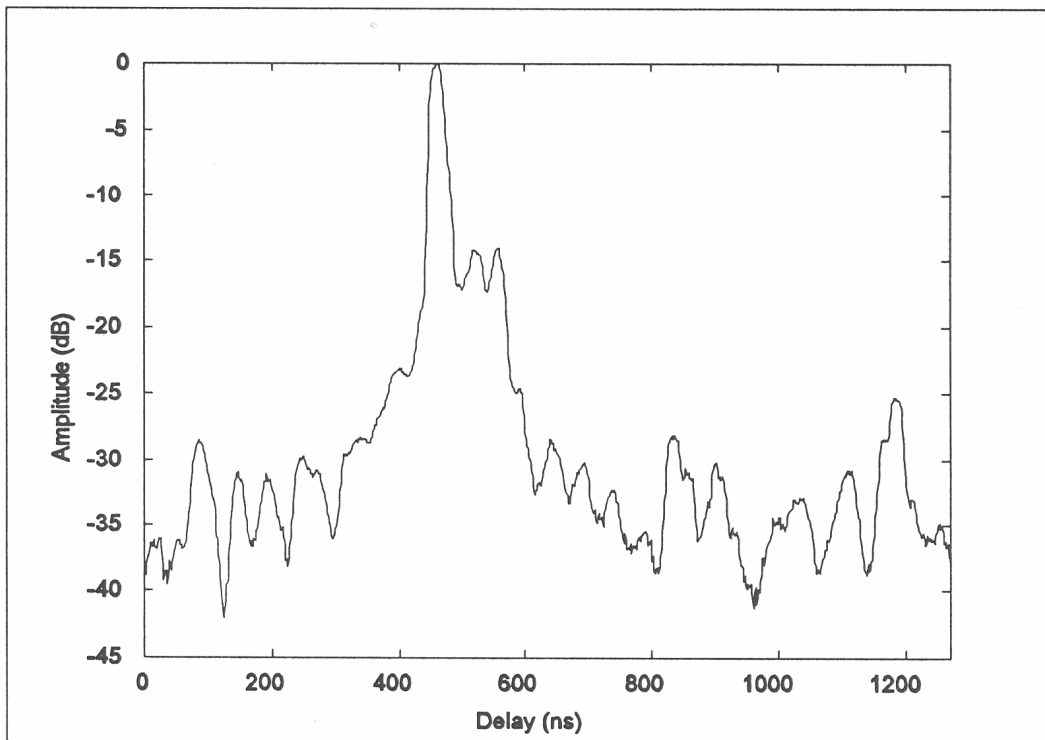


Figure A-1. Magnitude of measured impulse response for MS measurement 1.

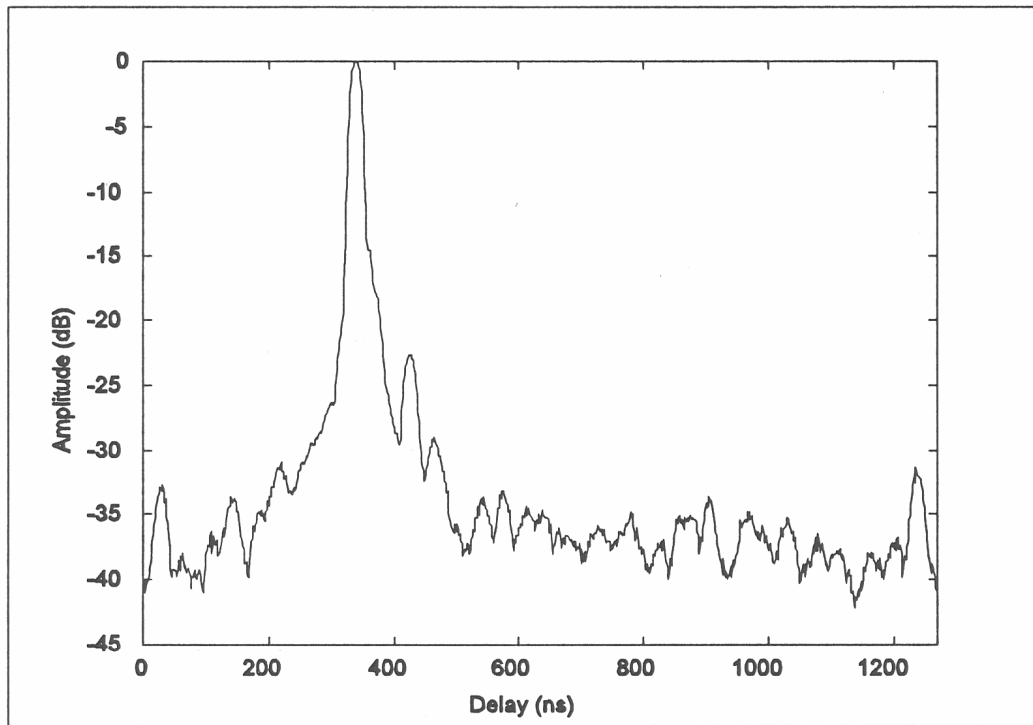


(a)

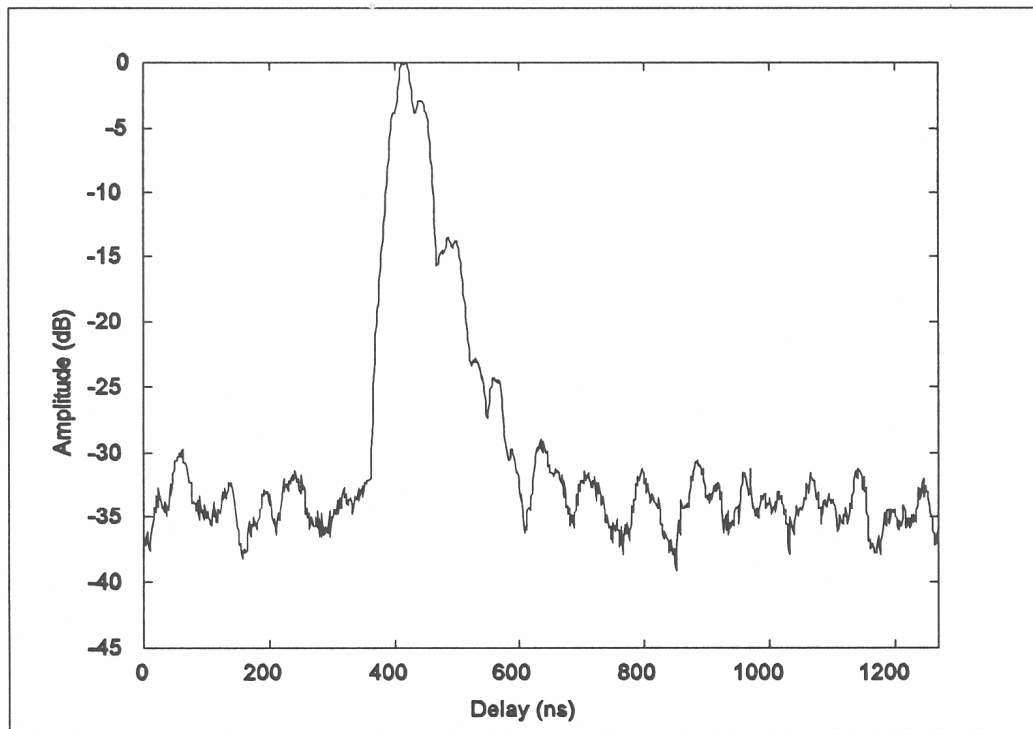


(b)

Figure A-2. Magnitude of measured impulse response for MS measurement: 2(a) and 3(b).

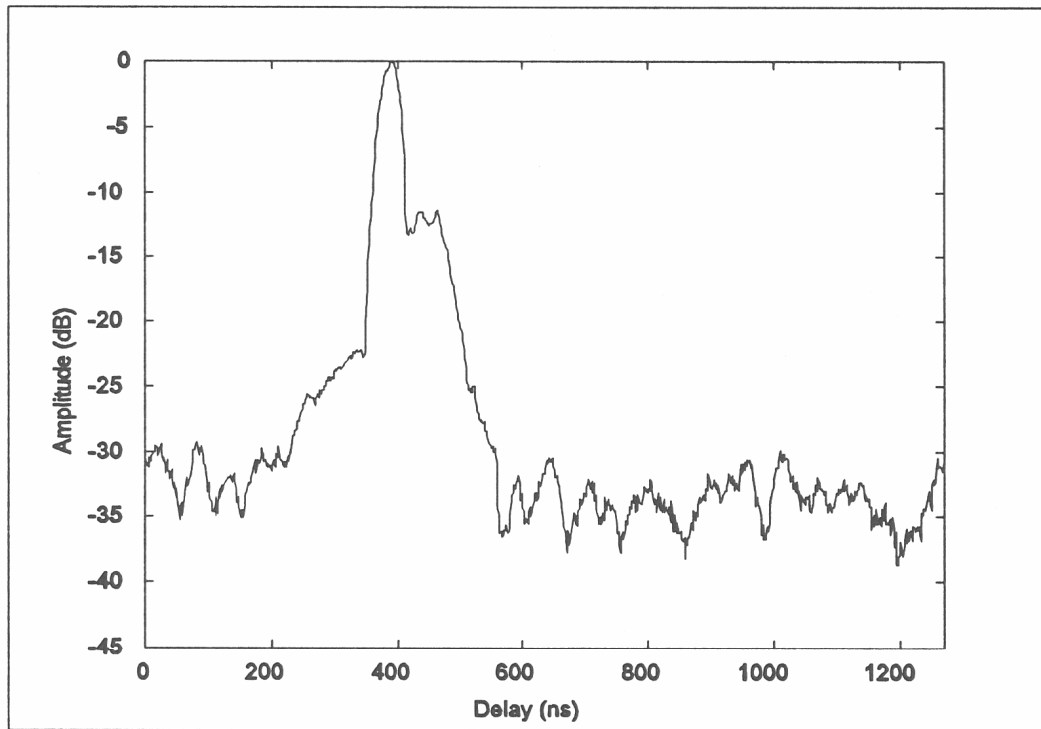


(a)

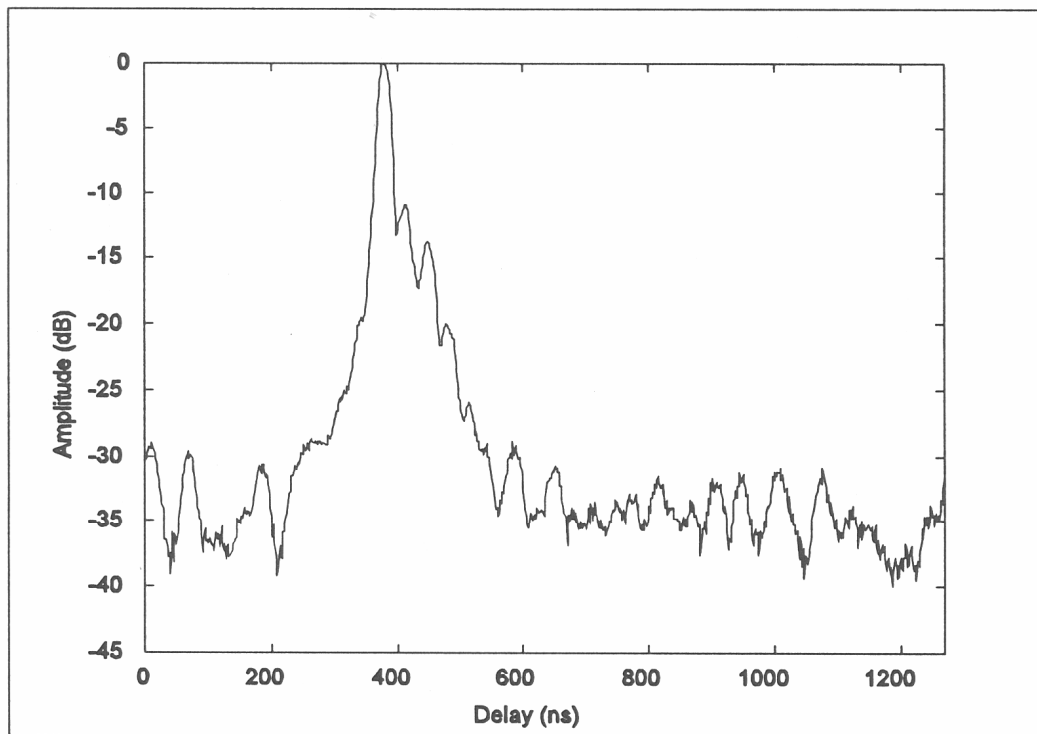


(b)

Figure A-3. Magnitude of measured impulse response for MS measurement: 4(a) and 5(b).

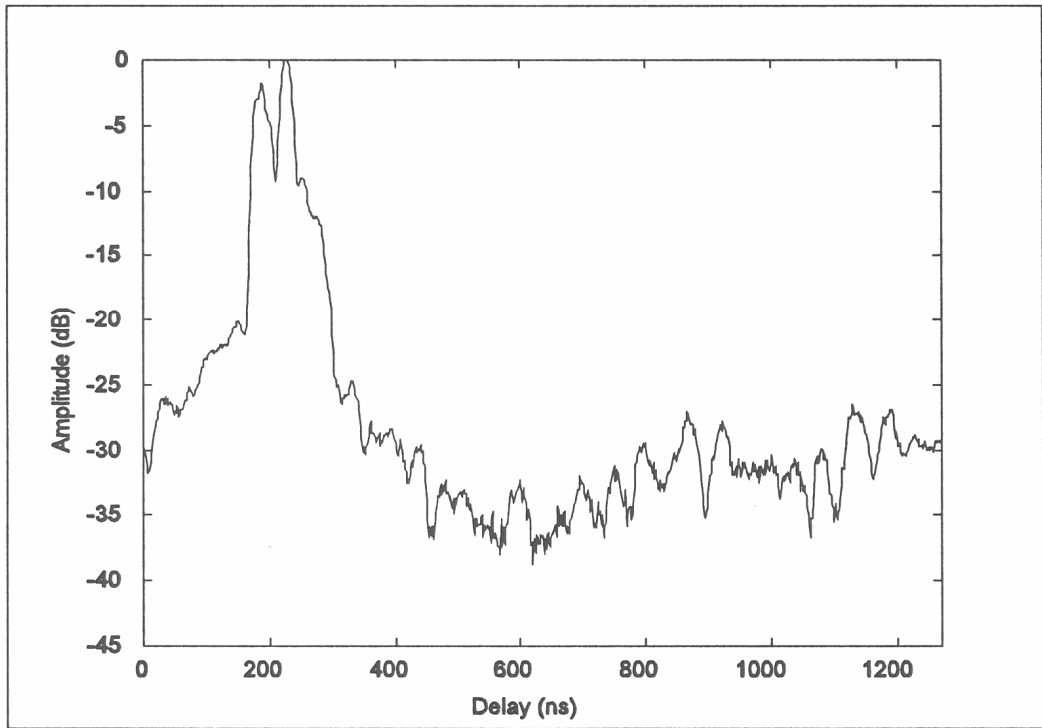


(a)

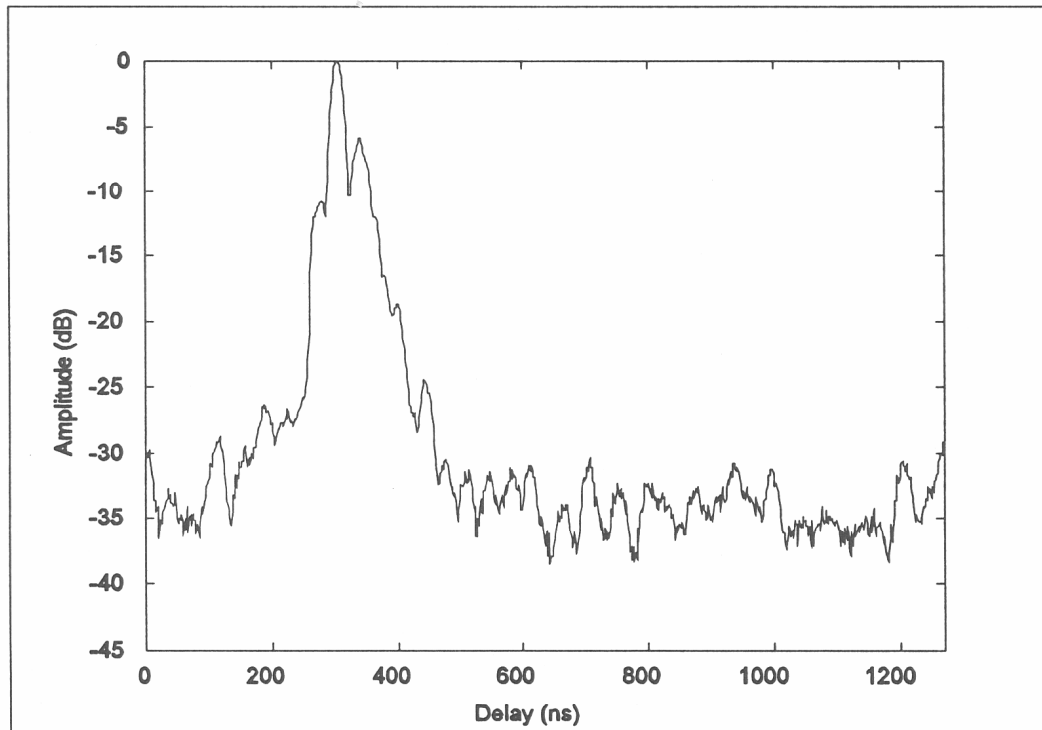


(b)

Figure A-4. Magnitude of measured impulse response for MS measurement: 6(a) and 7(b).

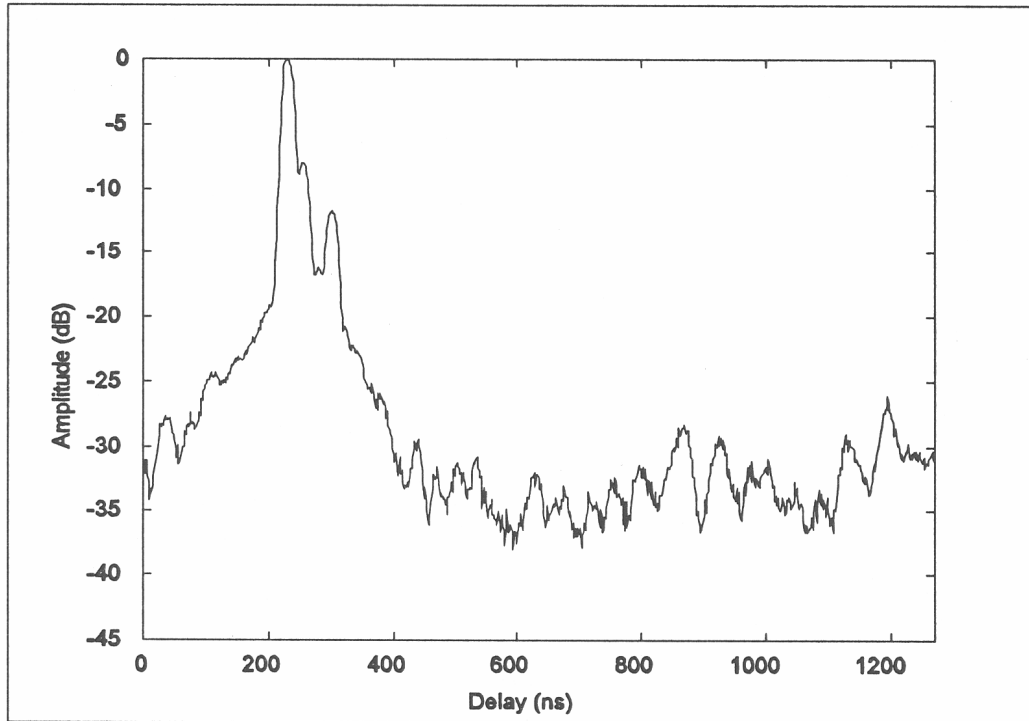


(a)

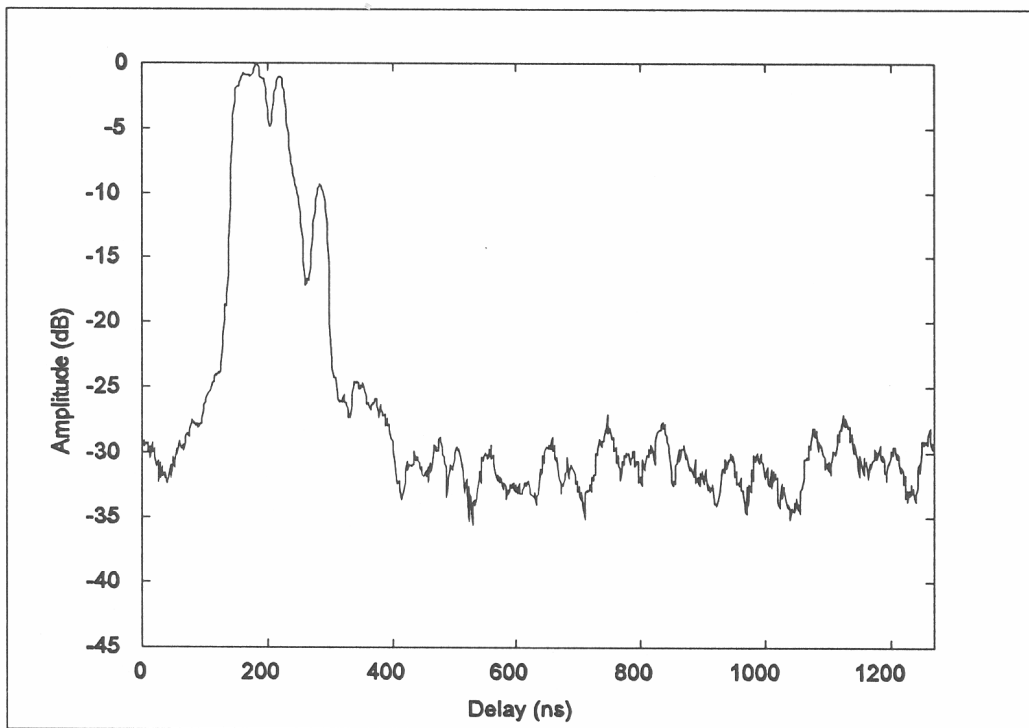


(b)

Figure A-5. Magnitude of measured impulse response for MS measurement: 8(a) and 9(b).

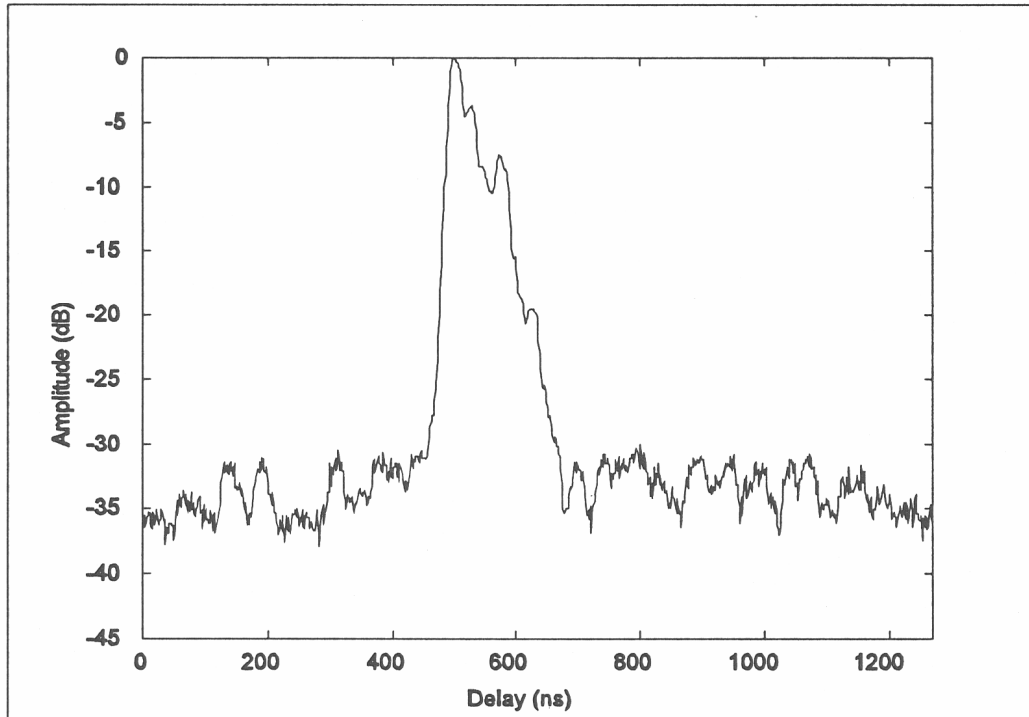


(a)

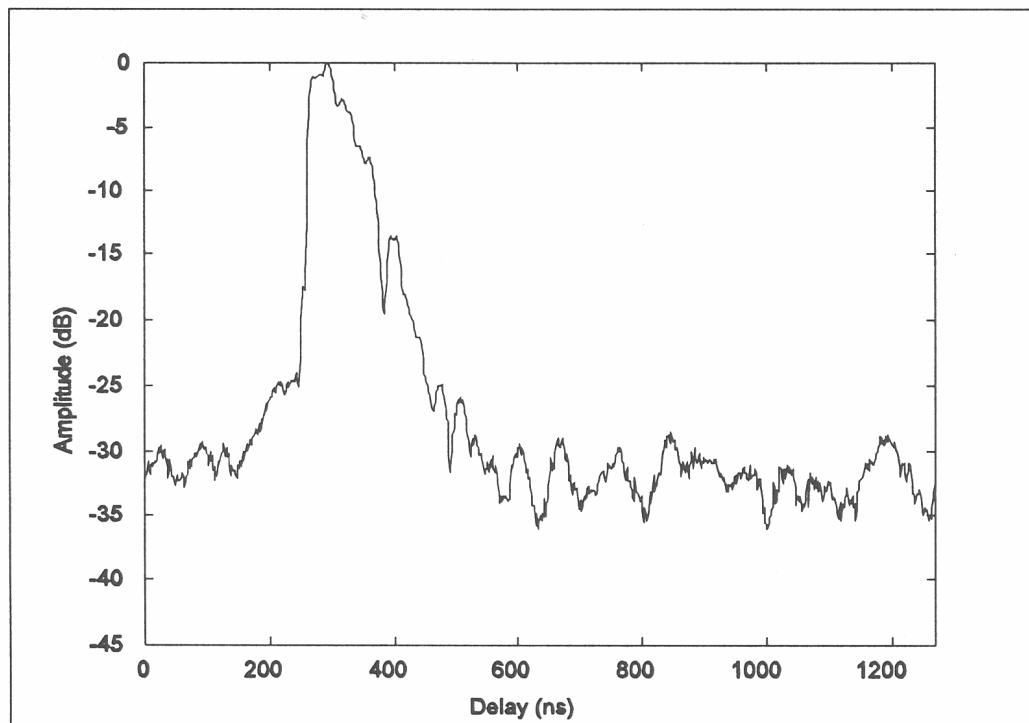


(b)

Figure A-6. Magnitude of measured impulse response for MS measurement: 10(a) and 11(b).



(a)



(b)

Figure A-7. Magnitude of measured impulse response for MS measurement: 12(a) and 13(b).

BIBLIOGRAPHIC DATA SHEET

1. PUBLICATION NO. 98-351		2. Gov't Accession No.	3. Recipient's Accession No.
4. TITLE AND SUBTITLE Indoor Direction Diversity at 5.8 GHz		5. Publication Date July 1998	6. Performing Organization Code NTIA/ITS
7. AUTHOR(S) Robert J. Achatz, Yeh Lo, Elizabeth E. Pol		9. Project/Task/Work Unit No.	
8. PERFORMING ORGANIZATION NAME AND ADDRESS NTIA/ITS 325 Broadway Boulder, CO 80303-3328		10. Contract/Grant No.	
11. Sponsoring Organization Name and Address NTIA 1401 Constitution Ave, NW Washington, DC 20230		12. Type of Report and Period Covered	
14. SUPPLEMENTARY NOTES		13.	
15. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) Complex impulse response measurements of a warehouse building were made at 5.8-GHz with a sliding correlator channel probe. These measurements were made with vertically and horizontally polarized directional antennas so performance improvement due to polarization- and direction-diversity could be evaluated. Improvement in performance was determined by changes in the radio channel's delay spread. Performance improved with direction diversity; however, adding polarization diversity yielded little improvement over direction diversity alone.			
16. Key Words (Alphabetical order, separated by semicolons) Key words: complex impulse response measurements; direction diversity; polarization diversity; indoor propagation; delay spread			
17. AVAILABILITY STATEMENT <input checked="" type="checkbox"/> UNLIMITED. <input type="checkbox"/> FOR OFFICIAL DISTRIBUTION.		18. Security Class. (This report) unclassified	20. Number of pages 30
		19. Security Class. (This page) unclassified	21. Price: