

Comparison of acoustic properties of two USMC helmets



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No binding. Book Condition: New. This item is printed on demand. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 2008 OCLC Number: (OCoLC)318683906 Subject: Communications, Military -- Equipment and supplies. Excerpt: . . . Participants were familiarized with the MRT items before the start of data collection by completing a practice list of the MRT items recorded in quiet. Participants were seated in a sound-treated booth and wore the headset that would be worn for the first set of test trials. Participants listened to the items presented through the headset with no background noise presented. Four loudspeakers were positioned in the room to output background noise during the test trials. The loudspeakers were approximately 1 m from the position of the listener and were directed toward the listeners chair. The background noise consisted of a 7-minute recording of an M113 armored personnel carrier played at a level of 105 dB A-wtd, which was identical to that used in the recordings. The order of the two helmets was counterbalanced across participants. Each of the three ECVCH models was worn by 4 of the 12 participants. During data collection, all 300 MRT words were used once for each set divided into six 50-word lists. A full set of 300 words took approximately 20 minutes to complete. After a full MRT set was completed, a short (about 5-minute) break was taken and helmets were changed as needed. Longer breaks were taken at the discretion of the participants. Total participant time was approximately 1.5 hours. The dependent variable of interest in this study was the listeners performance in each condition. Data analysis includes descriptive statistics (means, standard deviations) and a paired samples t-test. Before data analysis, two transformations of the data were made. First, the adjusted percent...

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