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0176 ANALYSIS OF CENTRAL NERVOUS SYSTEM
INVOLVEMENT IN THE MICROWAVE AUDITORY
EFFECT. (E.) Taylor, E. M. (U. Washington Sch.
Med., Seattle) and B. T. Ashleman. *Brain Res*
74(2):201-208, 1974.

Nine cats were prepared for the recording of potentials in three brain sites evoked by acoustic stimuli (square wave pulses 10 μ sec in duration with a repetition rate of 1 pulse/sec) and microwave stimuli (pulses of 2450 MHz energy). Loci in which potentials were observed were the eighth cranial nerve, medial geniculate nucleus, and primary auditory cortex. The effect of cochlear disablement on these potentials was evaluated. Potentials at all sites were abolished by cochlear damage. There were no differences between acoustic and microwave stimuli in this regard. The data support the contention that the microwave auditory effect is mediated at the periphery as are the effects of conventional acoustic stimuli. (9 references)