Subject: Re: Would you say . . . Posted by Wayne Parham on Fri, 07 Nov 2003 17:20:01 GMT View Forum Message <> Reply to Message

Assuming resonance around 50Hz, wavelength at the Helmholtz and fo frequencies is around 20 feet, so distances that are less than about 5 feet are pretty insignificant, acoustically. At this scale, the distance between a room boundary and the woofer is about the same as the distance between the boundary and the port; The difference is probably less than 5 feet. So the room boundary should act the same on sound coming from the woofer and from the port. I'm sure there are some applications where the two are decoupled; I've seen a few designs where the port doubles as part of a Helmholtz resonator and also as a sort of truncated horn. But in general, the woofer and port are treated as forming a system and their inter-relationships are intimately combined. Certainly, midrange output from the port. But the bass output from the cone and the bass output from the port - within an octave of each other - interact with the room in pretty much the same way.

