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Subject: Re: 4pi build with stands finally realized

Posted by [Wayne Parham](#) on Sun, 03 Oct 2021 19:14:13 GMT

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Your measurements look good, congratulations! I feel better about that 2226H cone now, because the measurements appear in line with what I expect from the OEM.

As for box tuning at 35Hz, that's not bad at all. The expected Helmholtz frequency is 37Hz - and that's what I've measured on several occasions - but even if you have some slight differences in your box or damping material that shifts it down to 35Hz, that's not too bad.

The truth is the 2226 will perform very well in cabinets from 2ft3 to 5ft3 with Helmholtz frequencies between 35Hz and 40Hz. I've found that the thing that matters more than the box tuning - provided it's in that range - is the positions of the driver and port in the cabinet and its size and shape because of internal standing waves. We don't want a pressure node to line up with the port or driver in the lower midrange 'cause that will give noticeable midrange aberrations.

I can see from your response curve that your loudspeaker system is free of any such aberrations and it is working as designed.

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