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Subject: PiAlign RS1354?

Posted by [craigha@attbi.com](mailto:craigha@attbi.com) on Wed, 02 Jan 2002 13:04:30 GMT

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First off thanks to Wayne and the others that have been answering my questions. I would like to build a Theater 4 Pi when I can afford the parts. In the meantime I have a pair of Radio Shack 1354 drivers on the shelf and some time to build a speaker. I want to try a PiAlign'ed cabinet with a full range 1354 and a Motorola 1038 piezo for HF fill. I'm using these parameters for the 1354: Fs 51, Vas .5 ft<sup>3</sup>, Qts .46, Qms .537, Qes 3.46, Pd 40W, Re 7, Diam. 4.75, Xmax 0.1 (??) From PiAlign I got: Vol. .23ft<sup>3</sup>, Fr 46 From Box Plot: Alpha 2.2, H 0.9 The Box Plot alignment was: vol. .8ft<sup>3</sup>, Fr 44 Hz Alpha .62, H .97 The Box Plot alignment Amplitude plot has -3dB at 40Hz and a flat 0dB line from 60Hz up. The Pi Alignment Amplitude plot has -3dB at 70 Hz and a hump from 90-250Hz. Some questions: 1) Am I entering things correctly? Assuming this is correct 2) Why the differences in the 2 alignments? How will the sound compare? 3) How are the cylindrical port sizes determined for each alignment? This has got me confused. Tia, Craig