Subject: Re: Am I in the Right Place?
Posted by Wayne Parham on Mon, 03 Apr 2023 14:04:00 GMT
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I think 2226 drivers would be perfect for a build like that. They offer high-efficiency, high-power and high-quality sound as a direct radiator.

They're also pretty easy to work with in that they have a smooth and extended response curve, having a well-damped cone that behaves well all the way up above 1kHz. Put 'em in a 2ft3 to 5ft3 cabinet with Helmholtz frequency of 40Hz using a port with ample area.

The only warning I would offer is that if you run them above 300Hz - which they are perfectly capable of doing - be sure to model the cabinet to avoid standing wave anomalies. And of course, measure to be sure. Cabinets as large as are needed for a system like this tend to setup standing waves in the lower midrange.

As for the crossover, see the link below:
Crossover optimization for DI-matched two-way speakersYou might also look at some of the other material on the Pi Speakers FAQ, which has more stuff on crossover design and other considerations. Most of it will apply to your build.