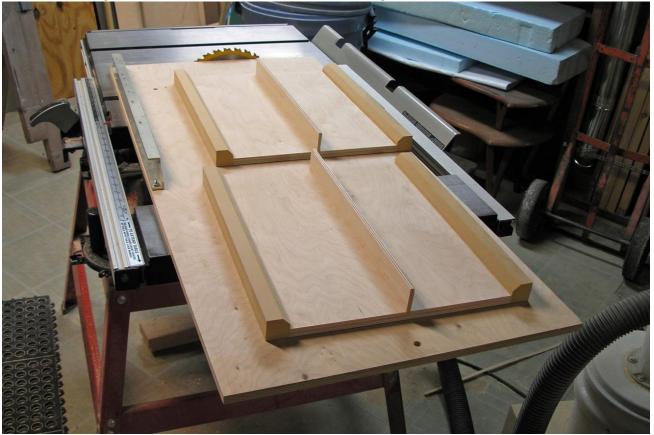
I built these speakers as wedding presents for my sister-in-law (affectionatly known as evil Barb) and her new husband Steve. I started with side panels made of ½" Baltic birch plywood with 1 1/8" corners made from MDF stair treads. I

added a 1/4" rib glued into a dado cut to use for internal bracing later in the build.





I made a rear chamber for the mid from a piece of 3" mailing tube and baltic birch and pre-wired it before the cabinet was glued up. The front panel is 34" BB.



The sides were glued up.



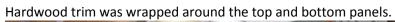
The box corners were rounded over with a 1" round over on the router table and the quarter sawn walnut veneer was wrapped all the way around the cabinet with a single seam in the back. I used the iron on method.





Cross bracing is glued in place.







The finished tops and bottoms.



The tops and bottoms were glued on.



I trimmed the corners on the table saw before using a router bearing bit to trim the tops and bottoms to mate with the cabinet sides and then I added a slight 45 degree chamfer on the edge.



I finished the cabinets with a couple of coats of Watco Natural Danish Oil and waited 72 hours before putting several coats of Minwax wipe-on poly on.



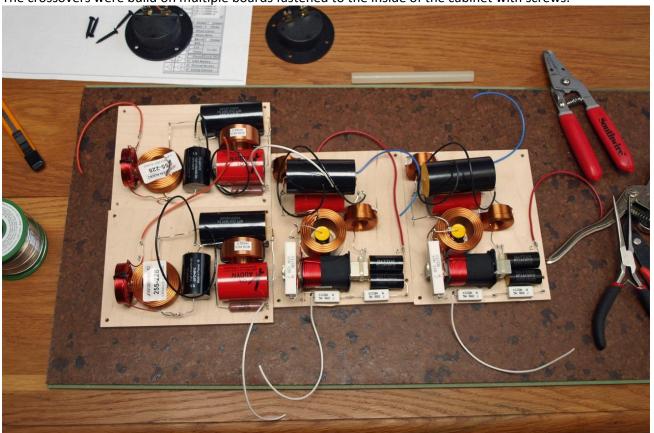
The remaining driver cutout were cut.



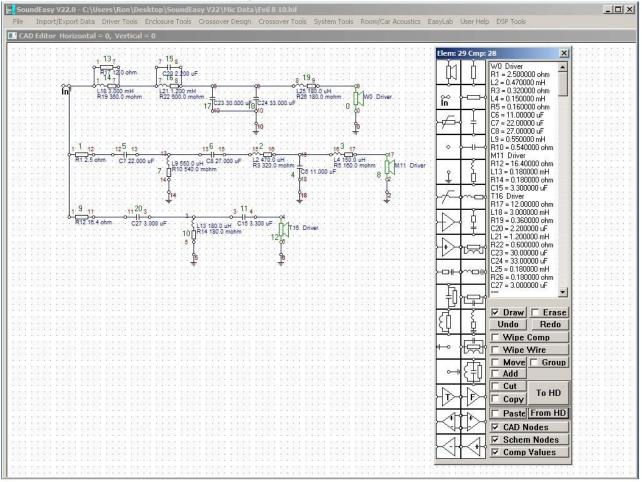
After the rebates were cut using templates and a top bearing router bit the drivers were test fit.



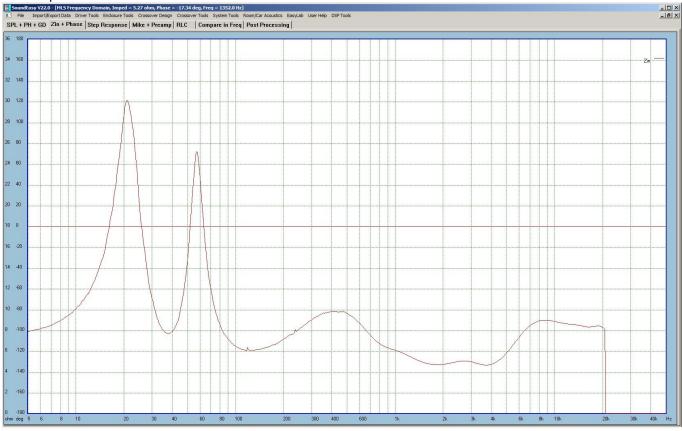
The crossovers were build on multiple boards fastened to the inside of the cabinet with screws.



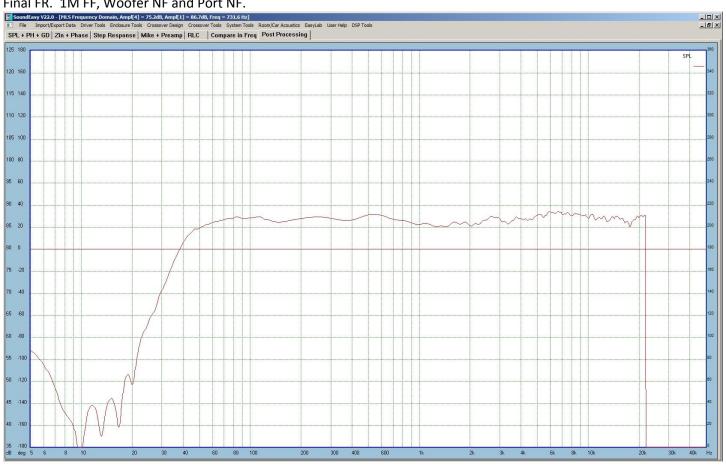
The crossover is 18db/oct with crossover points at 800 and 4K.



Final Impedance.



Final FR. 1M FF, Woofer NF and Port NF.



Finished with 3"x 8" port made with a piece of hardwood walnut trim and PE 3" plastic precision port. The internal box volume is .85 cu. ft. with a port tuning of 38Hz.



At DIY IA 2017. (Photo by 4thtry)



The drivers are the Dayton DSA215-8 woofer, Peerless 830985 mid and Peerless da25bg08-06 tweeter.

https://www.parts-express.com/dayton-audio-dsa215-8-8-designer-series-aluminum-cone-woofer--295-530 https://www.parts-express.com/peerless-da25bg08-06-1-aluminum-dome-tweeter-6-ohm--264-1460 https://www.parts-express.com/peerless-by-tymphany-830985-2-1-2-full-range-woofer--264-1050

I'm really quite pleased with how these turned out. They sound good. For those wondering about the new Peerless tweeter I think it's quite good although crossed at 4K probably isn't too much of a test for it.

Ron