
Subject: Beware predicted HF responses.

Posted by [Bill Fitzmaurice](#) on Tue, 13 Apr 2004 20:11:42 GMT

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I use McBean, and while it is reasonably accurate in predicting F_c and about an octave or two higher, it is way off the mark past that. How high can a twelve go? My DR12 loaded with an EVM 12L gets 114dB at 4kHz, and it's a folded horn to boot. The question shouldn't be how high can you go, but how high before dispersion gets too beamy for a particular application. For example, look at the axial plot in this chart for my DR 250a, and note how things start getting a bit hinky around 2kHz, which is where it gets crossed over to the HF section not because of SPL (the SN10 woofer is fine to 4kHz) but because of dispersion.

<http://hometown.aol.com/fitzmauricew/myhomepage/photo.html>
