Subject: Re: flat response
Posted by Wayne Parham on Thu, 31 Oct 2013 18:40:07 GMT
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I don't agree - I think they're quite flat. It is extremely rare to see speakers with response as flat as mine, and especially over a 90°x40° degree arc. Most speakers have a whole lot more anomalies, but their measurements are smoothed to cover them.

I won't mention any names, because it always seems to get people crying about it. But you'd be surprised how many speakers out there have response curves with huge peaks and valleys, like 15dB notches, that are simply smoothed out of their published response curves. And it isn't just commercial offerings either - Some of the DIY darlings are just as bad.

Most of the boutique drivers popular with some DIYers, for example, have excessive breakup, like really bad. Yet you'll see speakers made with them showing response curves that have no trace of the anomalies. You can't fix that kind of things in the crossover, so whatever is published is either highly smoothed or completely fabricated.

That's why I like to publish LMS charts, and datasets with no smoothing applied, whatsoever. It's sort of a "badge of honor" to me. It does make me vulnerable though, because it makes an unfair comparison with smoothed charts from other lesser products. But if you measure those lesser products with LMS, you'll not be happy with what you see.

There are no unpleasant surprises like that with my products. Tons of builders out there publish their measurements, and they look just like what I publish, no matter how high resolution they measure with. Look at some of the other DIY speakers out there, and how many people publish charts that look nothing like what is published. Seems like some of the other builders spend more time trying to reconcile their measurements than they do enjoying their speakers, and that's because the published data is overly processed, or outright bogus.