Subject: power graph in BoxPlot
Posted by Chris R. on Tue, 03 Apr 2007 19:09:14 GMT
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Wayne, Using Boxplot, some drivers have a max power curve that dips ratherlow towards the lower freq's, while other drivers are "allowed" specpower at all freq's. One such odd drive is the Delta15 that you use.I'm assuming that for the given driver params (Xmax, Vas) and boxsize, the Xmax of the driver would be exceeded if power was abovethe curve. Is all this correct?Thx, Chris

Subject: Re: power graph in BoxPlot
Posted by Wayne Parham on Tue, 03 Apr 2007 20:56:12 GMT
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That's right, the power curve includes both thermal and mechanical limits, and the dip near resonance is due to the driver's thermal limit.

Subject: Re: power graph in BoxPlot
Posted by Chris R. on Tue, 03 Apr 2007 22:27:33 GMT
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thanks Wayne,> That's right, the power curve includes both thermal and mechanical> limits, and the dip near resonance is due to the driver's thermal> limit. Isn't that sort of bad, then? Too much content at the wrong freq.(mid-band, though) would wreck the driver.Chris

Subject: Re: power graph in BoxPlot
Posted by Wayne Parham on Wed, 04 Apr 2007 02:23:13 GMT
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It's just a consequence of the system. A system at resonance is easily excited with little input. The cone of a speaker driven at resonance moves a long way with relatively little input power. If damped, the movement is less, but that also means bass output is reduced. So it's a balancing act.