
Subject: Re: Confused about sensitivity information
Posted by [Adrian Mack](#) on Wed, 14 Apr 2004 22:30:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

The Eminence sensitivity guide should be showing the real 1w/1m levels of the driver. The graph must be showing something else, maybe 2.83v or something. I'd trust the sensitivity guides numbers, which are the real numbers. $n_0 = (9.64 \cdot 10^{-10} \cdot (F_s \cdot a^3 \cdot V_{as} \cdot a)) / Q_{es} \cdot a$
 $= (9.64 \cdot 10^{-10} \cdot (118^3 \cdot 5.8)) / 0.60 = 0.0153 \text{ SPL}$ 1w/1m = $112 + 10 \cdot \text{LOG}(n_0) =$
 $112 + 10 \cdot \text{LOG}(0.0153) = 93.85 \text{ db}$ 1w/1m Reference efficiency converted to 1w/1m sensitivity, it corresponds to Eminences sensitivity guide, but not the graph. The graph must be measured under different conditions. Adrian
