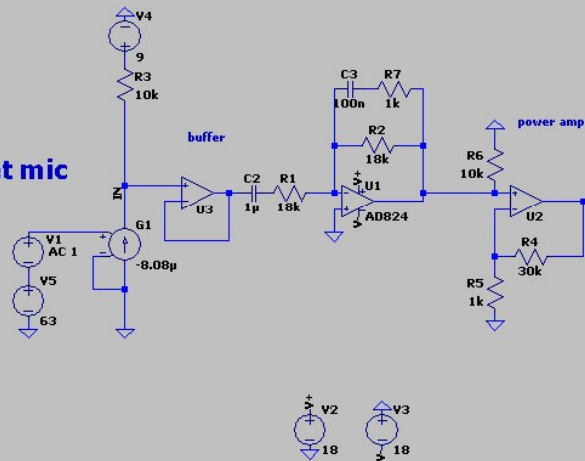
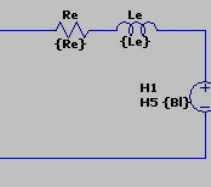
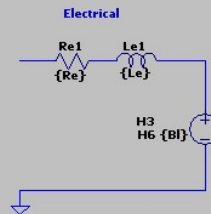


Electret mic



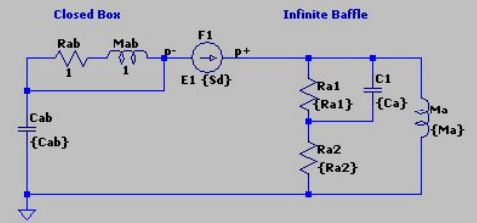
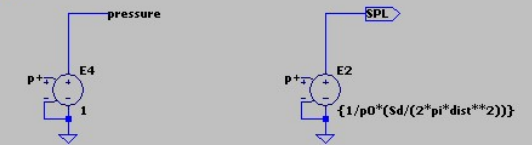
Woofer in closed box



Driver parameters
 .param Re 4.2
 .param Le 1.8e-3
 .param Rms 1.8
 .param Mms 78e-3
 .param Cms 0.74e-3
 .param Bl 10.7
 .param Sd 31.2e-3

Box in liters
 .param Vb=30

Analysis
 .ac oct 1000 20 20000 ;
 .lib opamp.sub



Constants
 .param rho 1.18
 .param c 344
 .param d 1
 .param pi=3.1418
 .param p0=2e-5
 .param dist=1

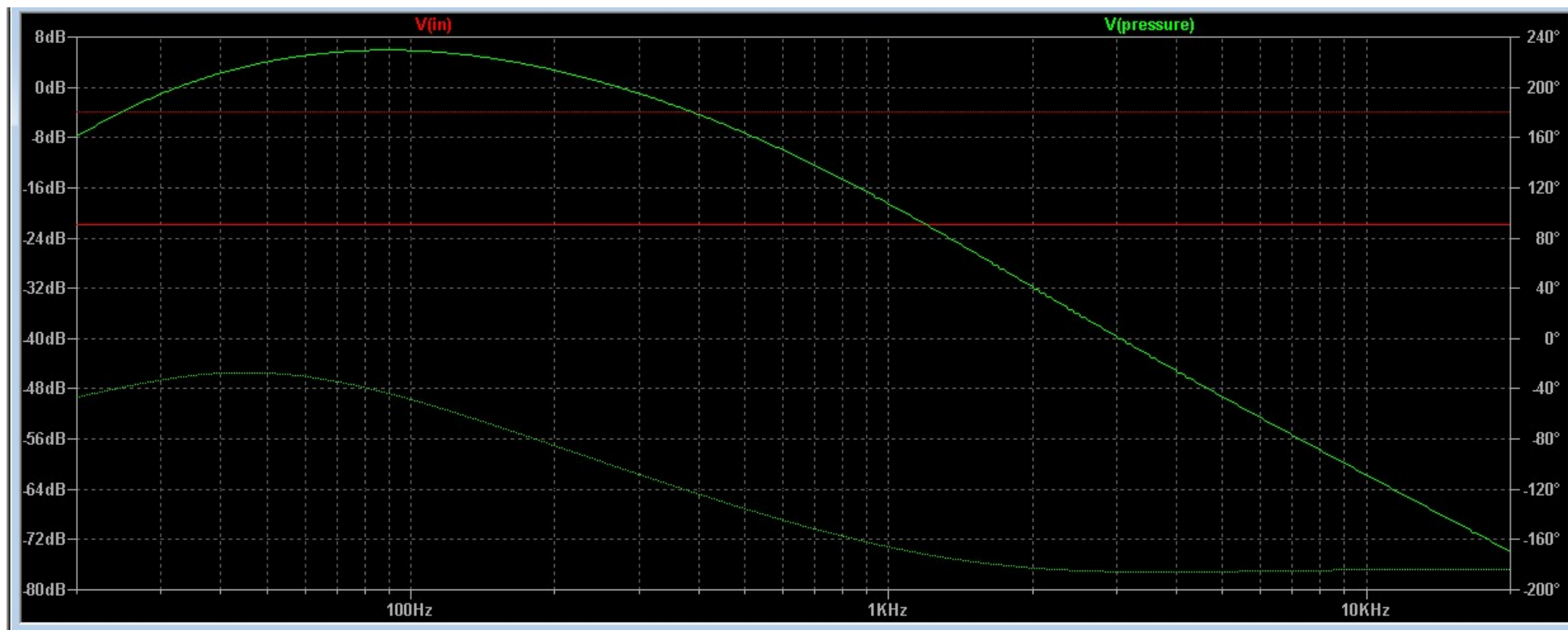
Computed
 .param Cab={Vb*1e-3/(rho*c**2)}
 .param rd={sqrt(Sd)/pi}
 .param Ra1={128*rho*c/(9*pi**3*rd**2)-Ra2}
 .param Ra2={rho*c/(pi*rd**2)}
 .param Ca={5.94*rd**3*ho*c**2}
 .param Ma={8*rho/(3*pi**2*rd)}

H : current dependant voltage source
 F : current dependant current source
 E : voltage dependant voltage source

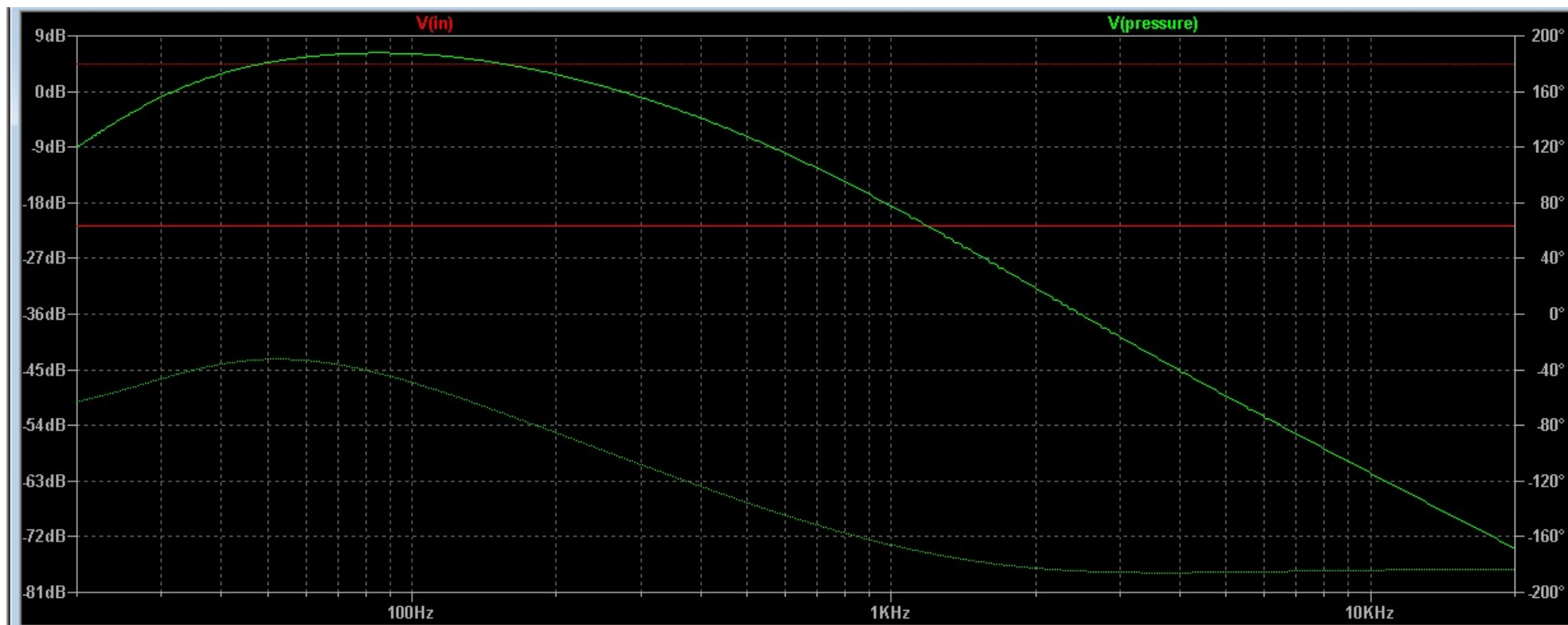
10 litres, $R7=680$, $C2=100n$



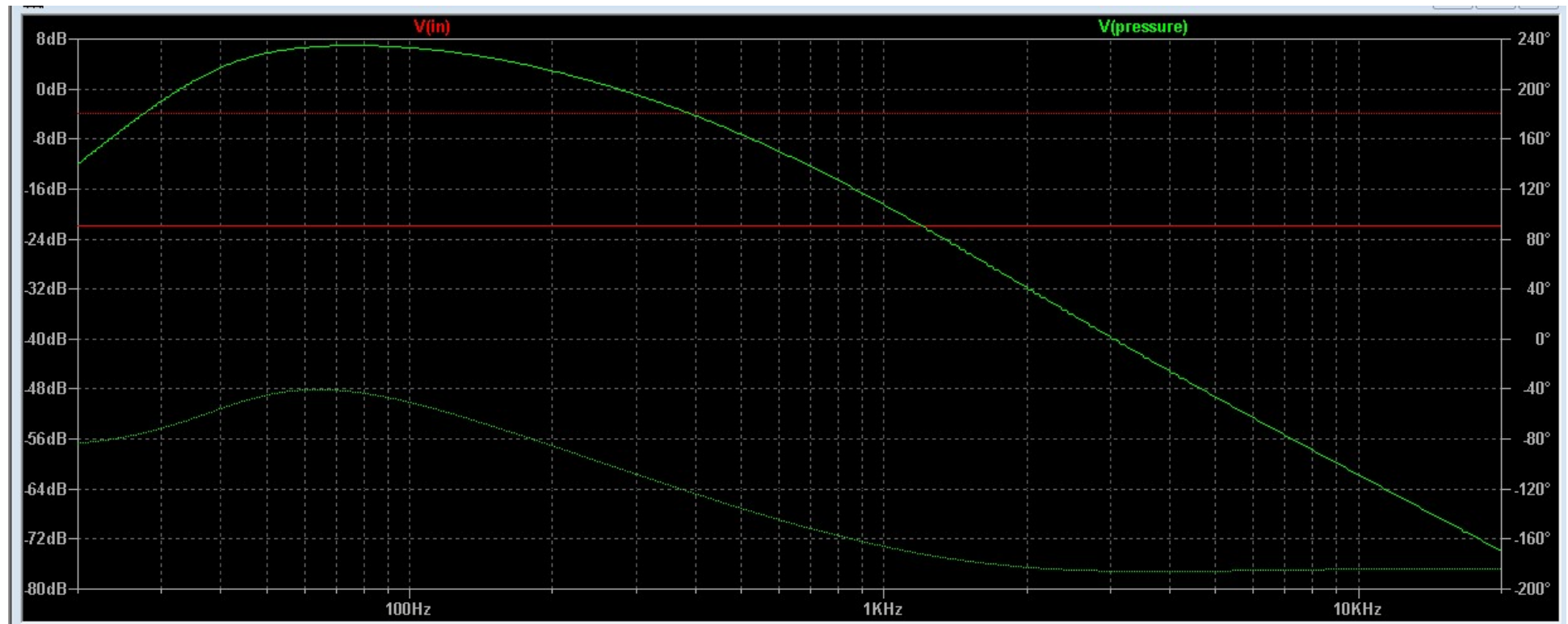
120 litres, $R7=680$, $C2=100n$



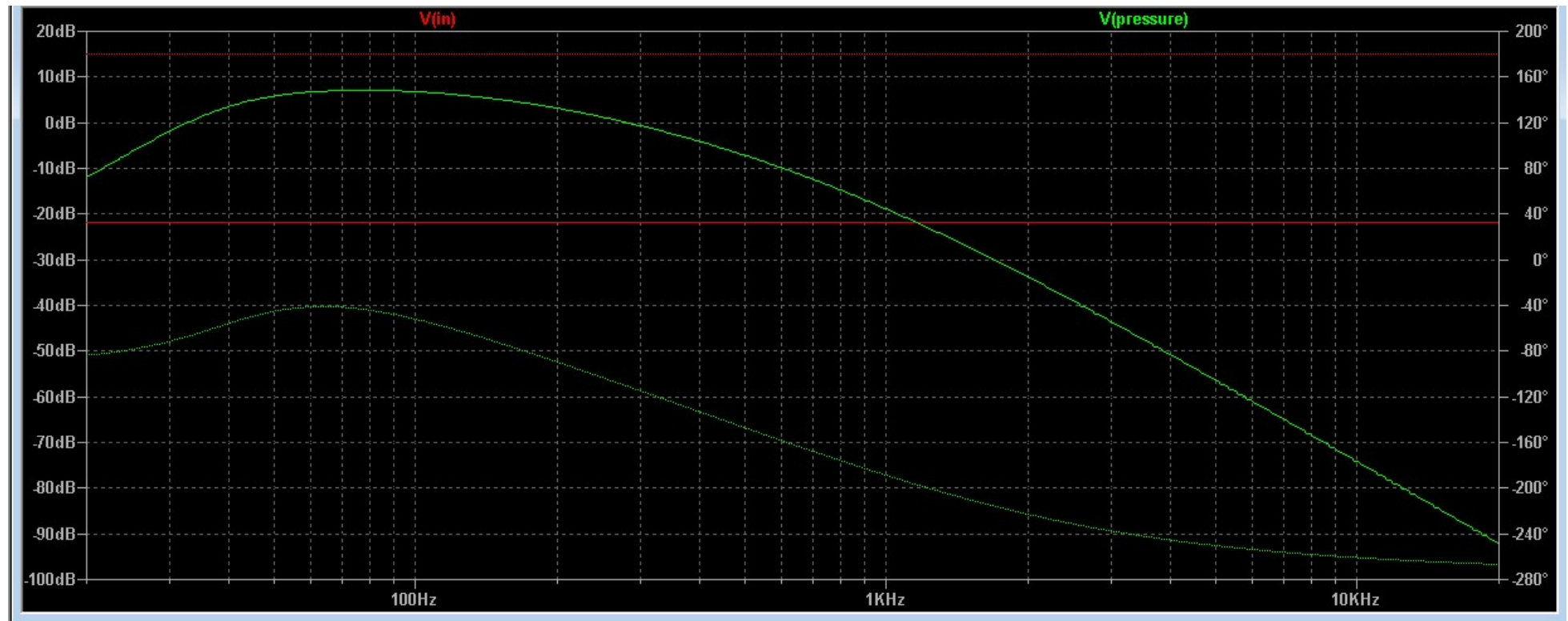
60 litres, R7=680, C2=100n



30 litres, $R7=680$, $C2=100n$



30 litres, $R7=0$, $C2=100n$



30 litres, $R7=680$, $C2=1\mu$

