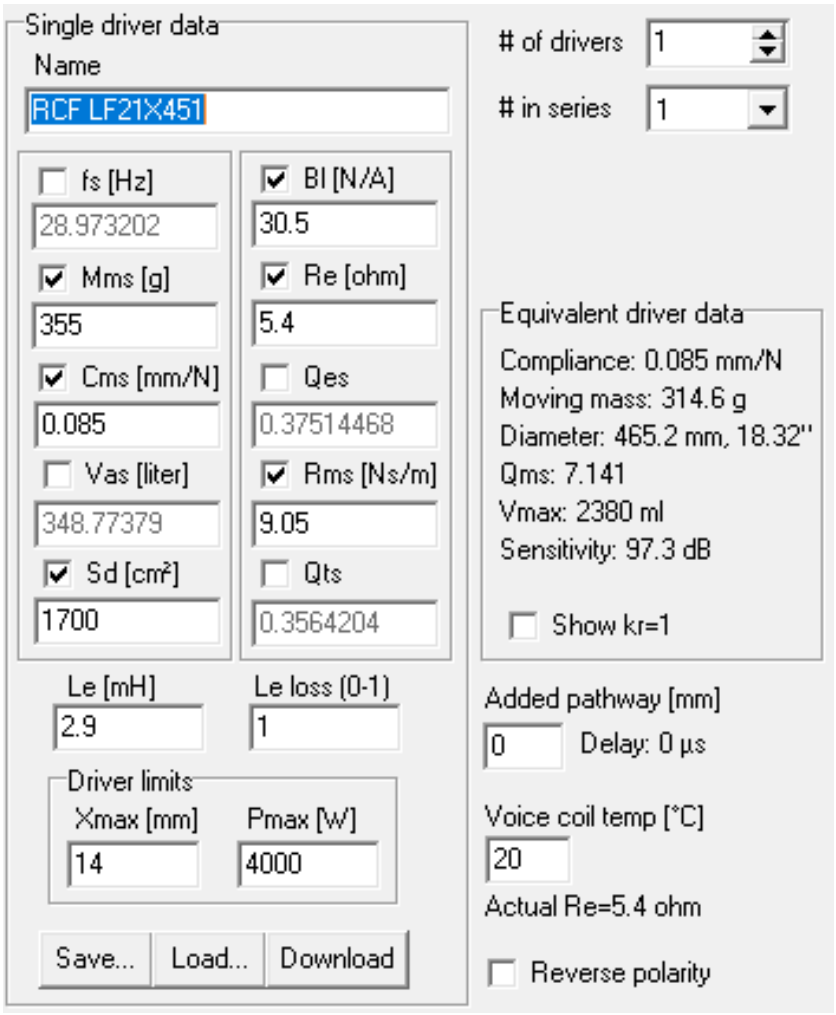
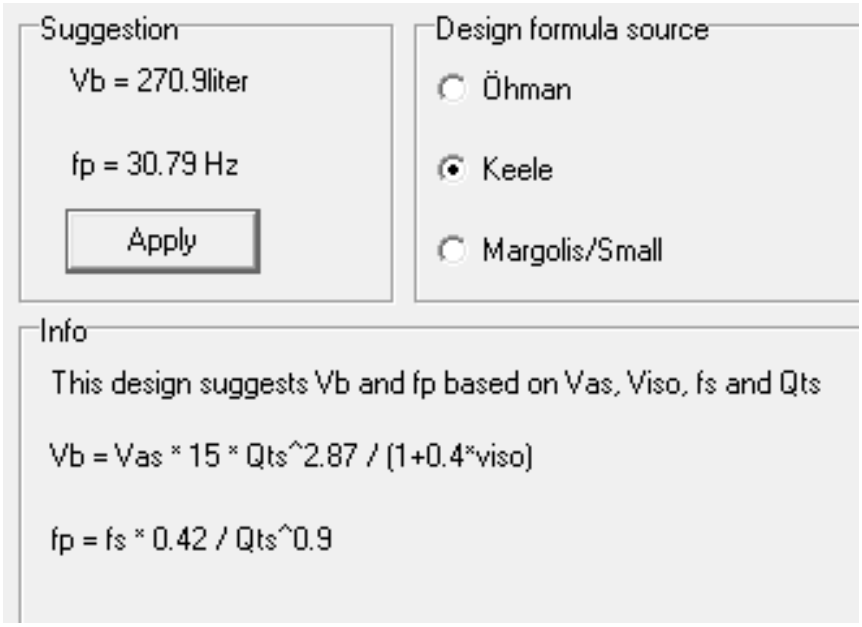
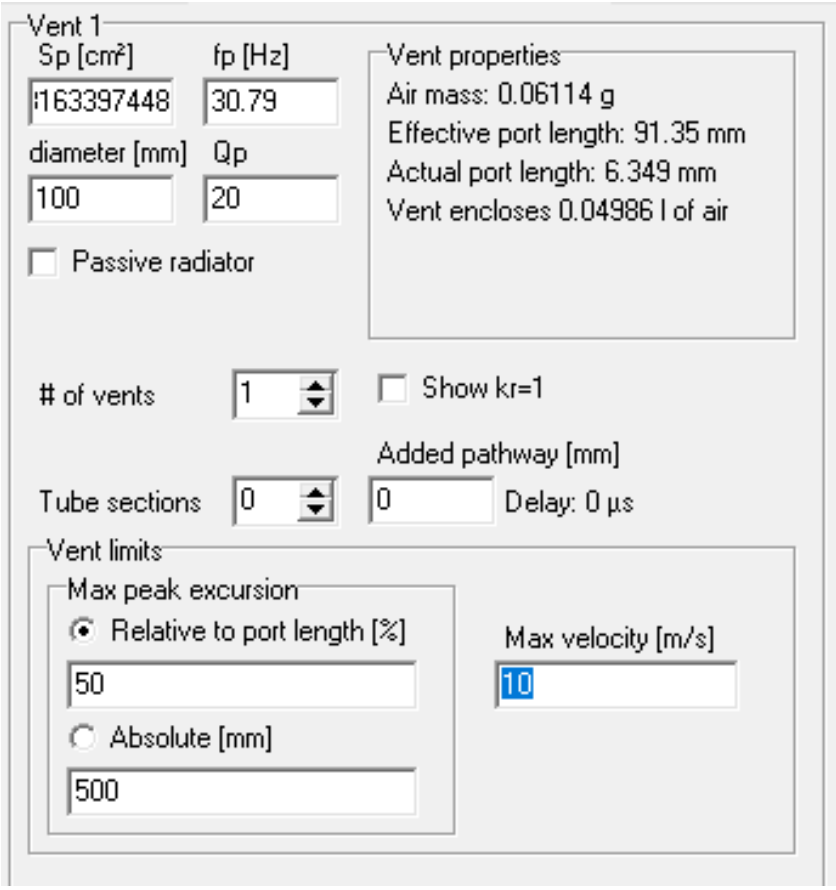
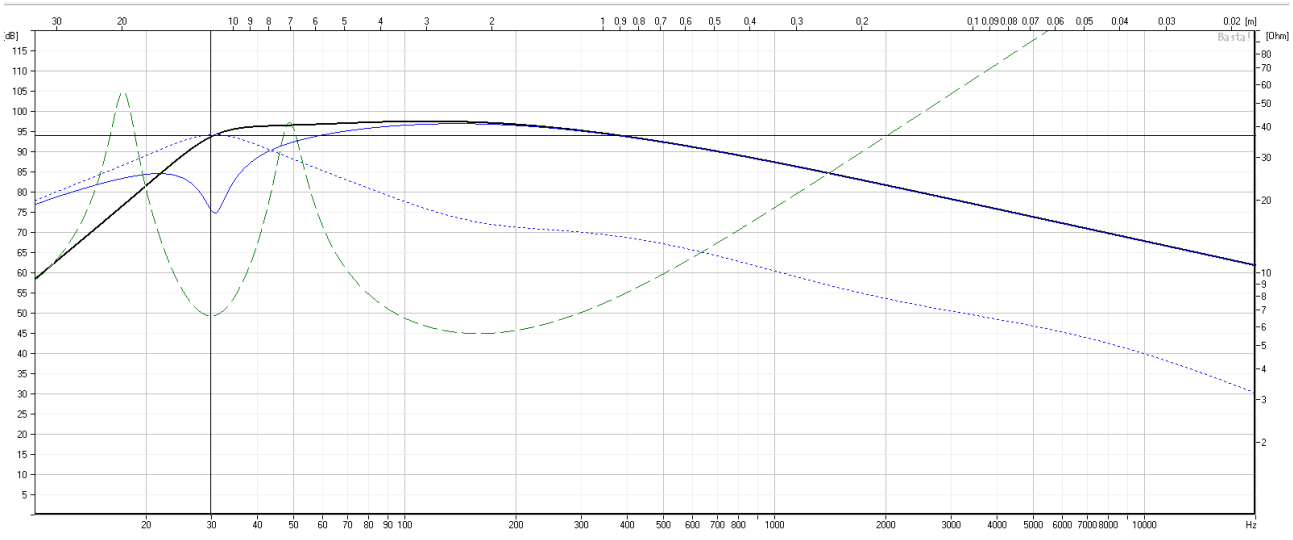

Single driver data
Name
RCF LF21X451
fs [Hz]
28.973202
Mms [g]
355
Cms [mm/N]
0.085
Vas [liter]
348.77379
Sd [cm²]
1700
Bl [N/A]
30.5
Re [ohm]
5.4
Qes
0.37514468
Rms [Ns/m]
9.05
Qts
0.3564204
Le [mH]
2.9
Le loss (0-1)
1
Driver limits
Xmax [mm]
14
Pmax [W]
4000
Save...
Load...
Download
# of drivers
1
in series
1
Equivalent driver data
Compliance: 0.085 mm/N
Moving mass: 314.6 g
Diameter: 465.2 mm, 18.32"
Qms: 7.141
Vmax: 2380 ml
Sensitivity: 97.3 dB
Show kr=1
Added pathway [mm]
0
Delay: 0 µs
Voice coil temp [°C]
20
Actual Re=5.4 ohm
Reverse polarity


Suggestion
Vb = 270.9liter
fp = 30.79 Hz
Apply
Design formula source
Öhman
Keele
Margolis/Small
Info
This design suggests Vb and fp based on Vas, Viso, fs and Qts
Vb = Vas * 15 * Qts^2.87 / (1+0.4*viso)
fp = fs * 0.42 / Qts^0.9


Vent 1
Sp [cm²]
:163397448
fp [Hz]
30.79
diameter [mm]
100
Qp
20
Passive radiator
Vent properties
Air mass: 0.06114 g
Effective port length: 91.35 mm
Actual port length: 6.349 mm
Vent encloses 0.04986 l of air
# of vents
1
Show kr=1
Added pathway [mm]
Tube sections
0
0
Delay: 0 µs
Vent limits
Max peak excursion
Relative to port length [%]
50
Absolute [mm]
500
Max velocity [m/s]
10


[dB]
[Ohm]
Hz