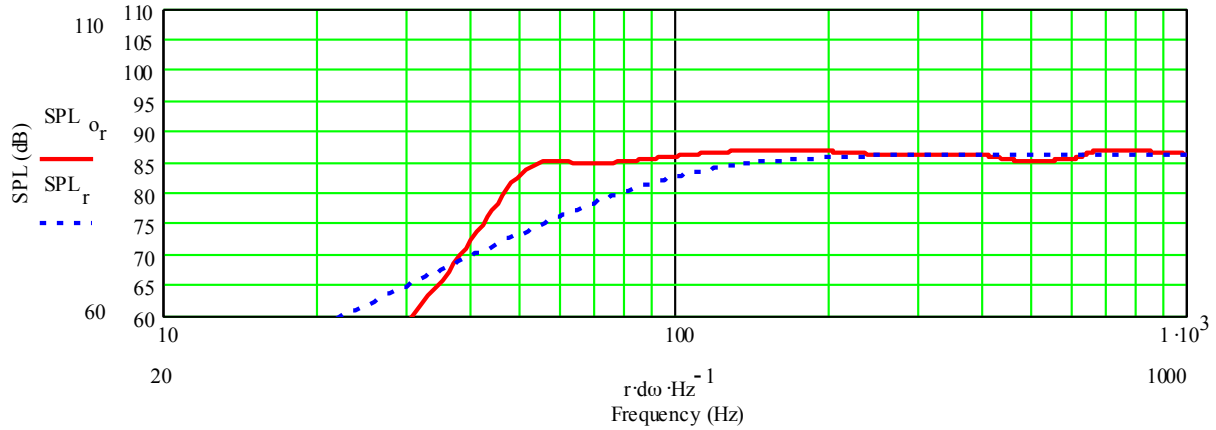
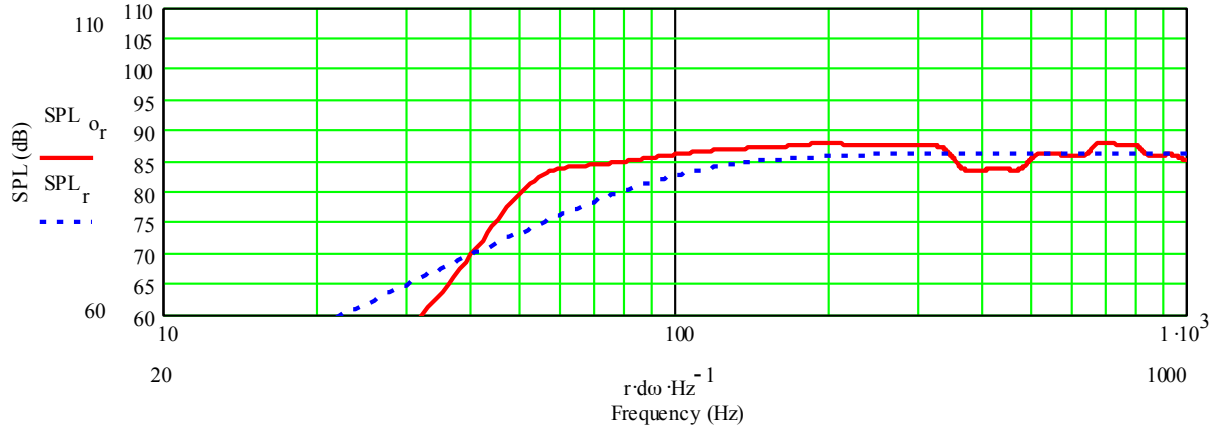
TABAQ and Circlo-MLTL Compared

SPL Damped



TABAQ

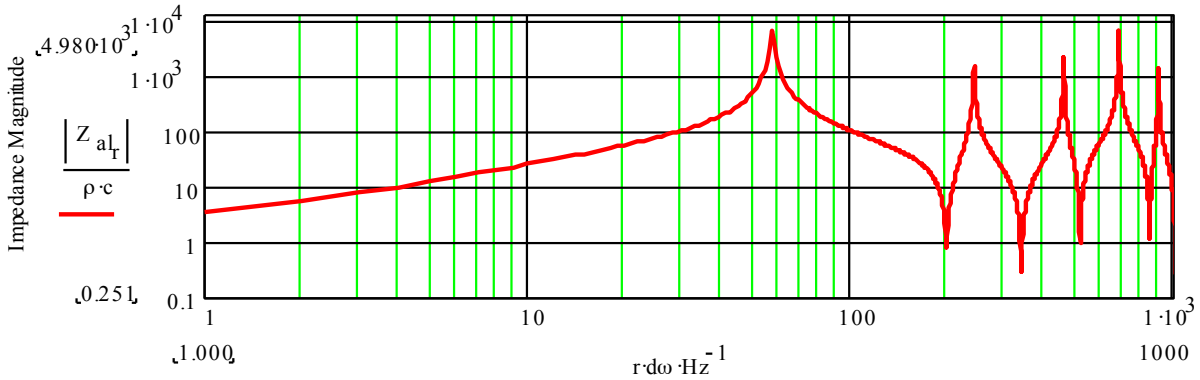


Circlo-MLTL

On the following pages both designs are documented with and without damping. As you can see, damping is essential for quarter wave designs and enables you to tune the result to the desired result.

TABAQ Tuning

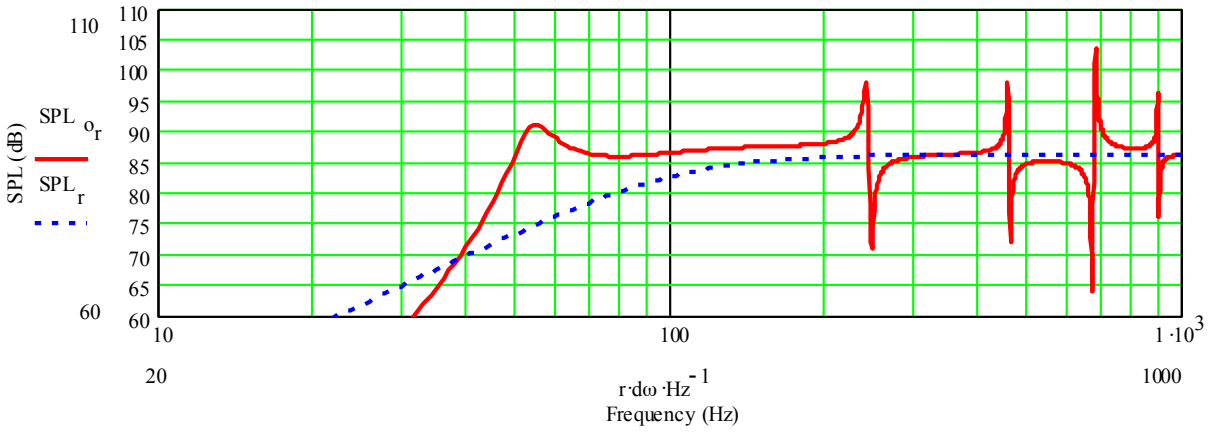
Tuning ca. 58 Hz in the unstuffed cabinet:



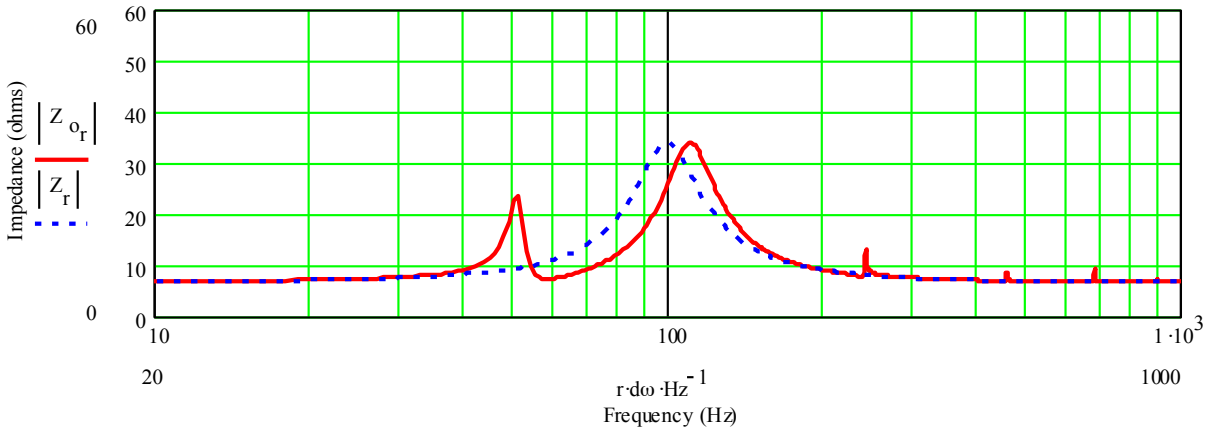
In the stuffed cabinet, tuning will drop a few Hz.

TABAQ Not Damped

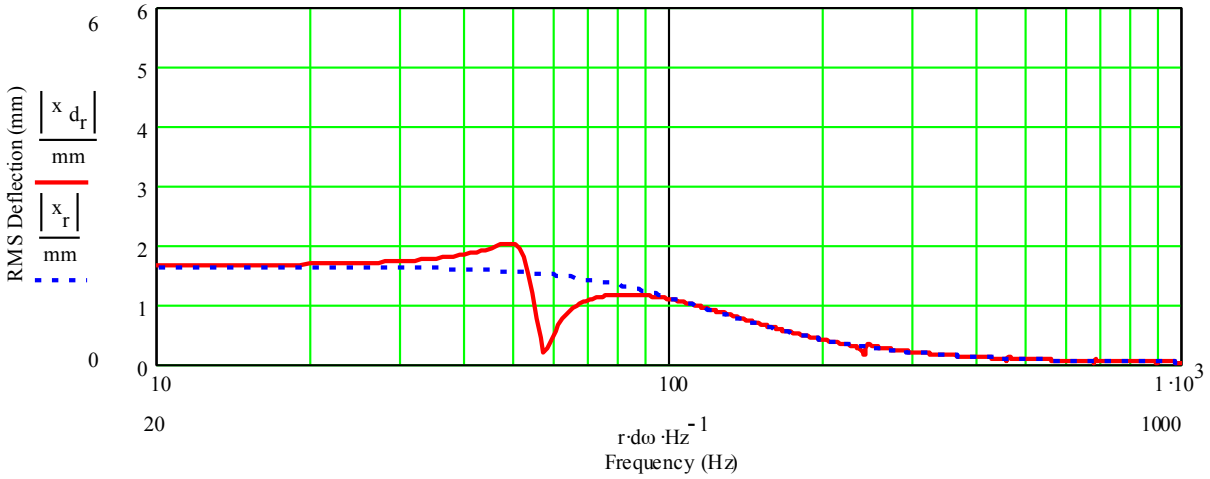
SPL:



Impedance:

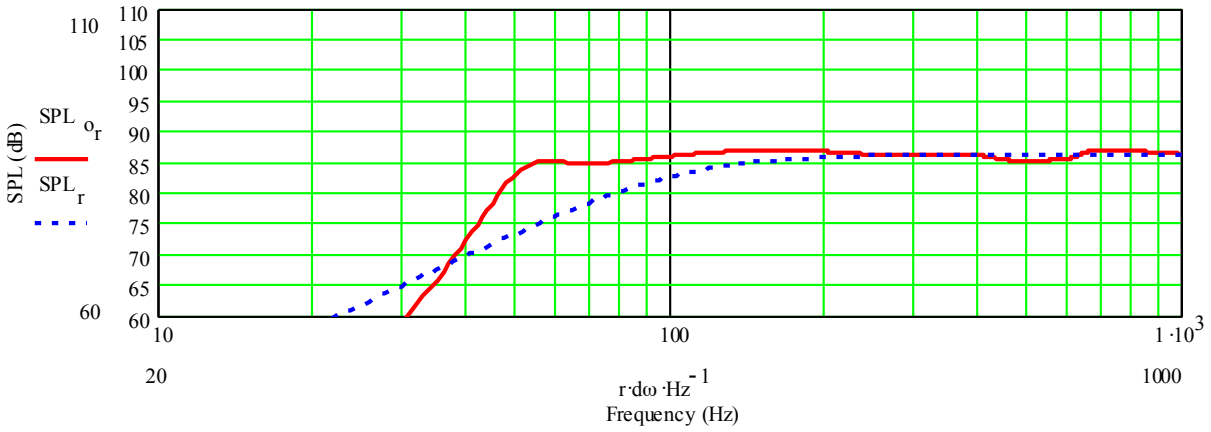


Woofer Displacement:

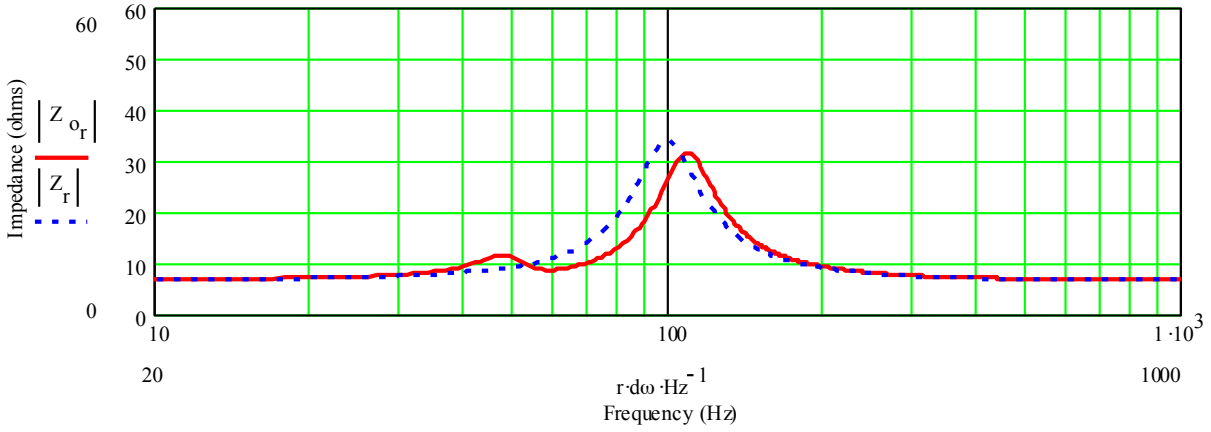


TABAQ Damped

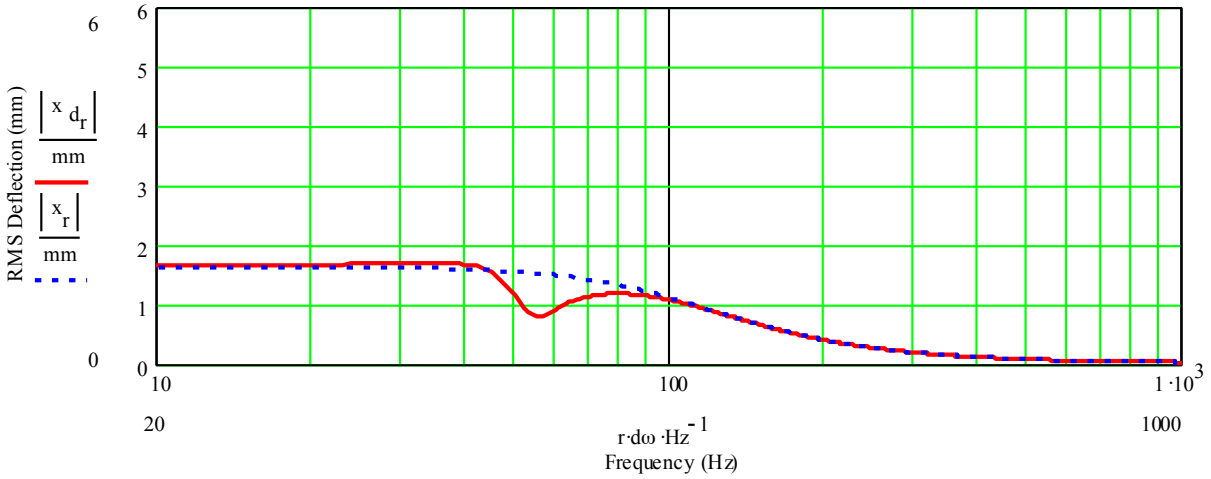
SPL:



Impedance:

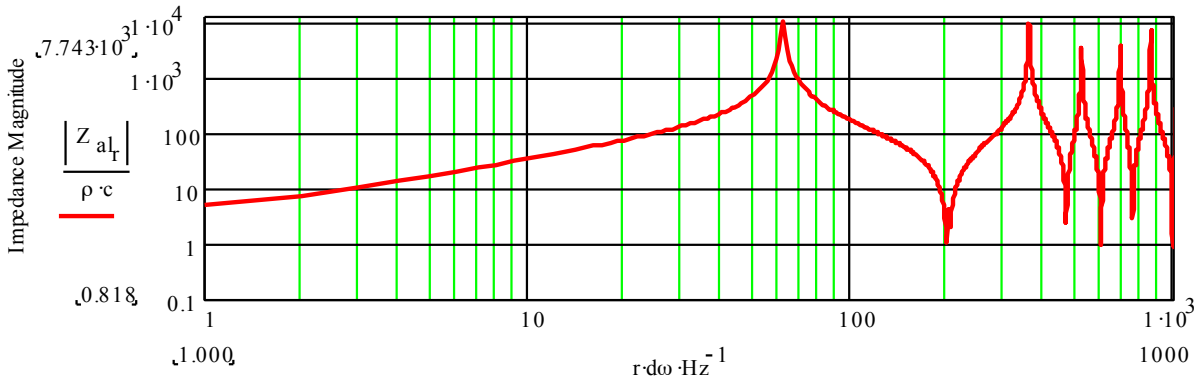


Woofer Displacement:



Circlo-MLTL Tuning

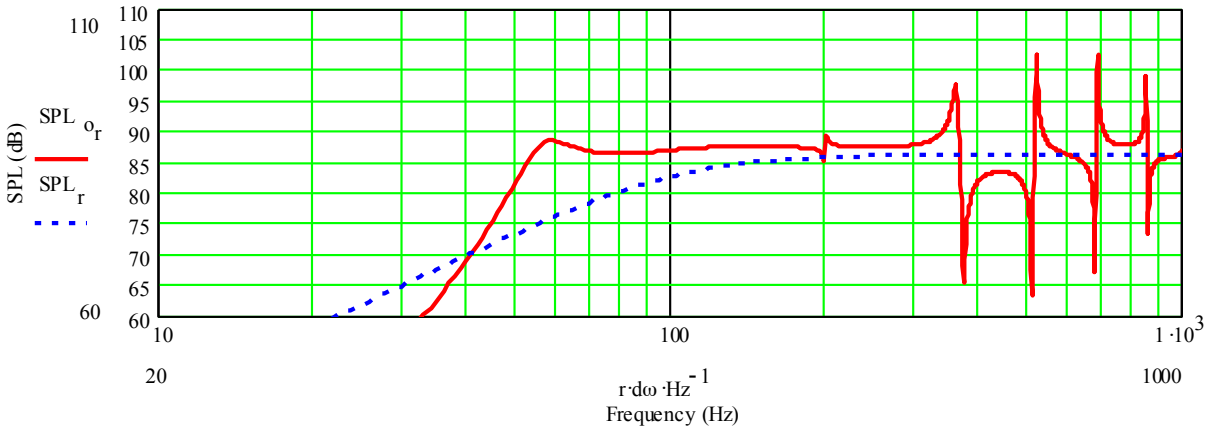
Tuning ca. 63 Hz in the unstuffed cabinet:



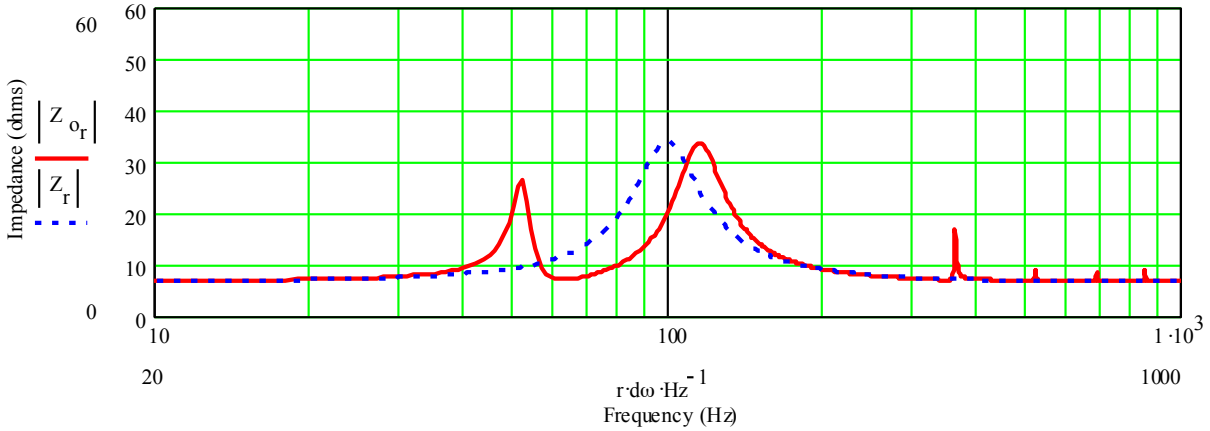
In the stuffed cabinet, tuning will drop a few Hz.

Circlo-MLTL Not Damped

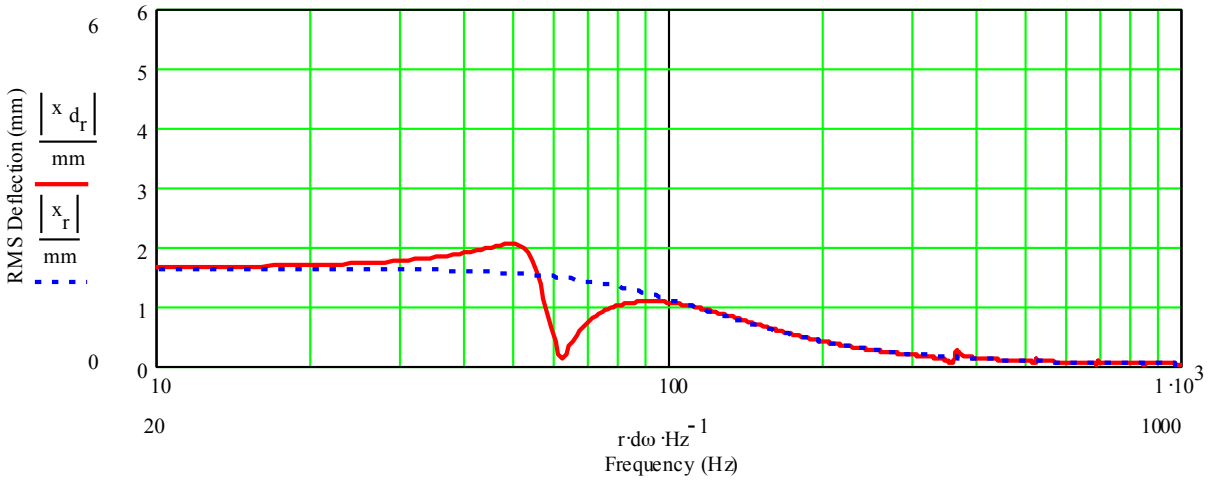
SPL:



Impedance:



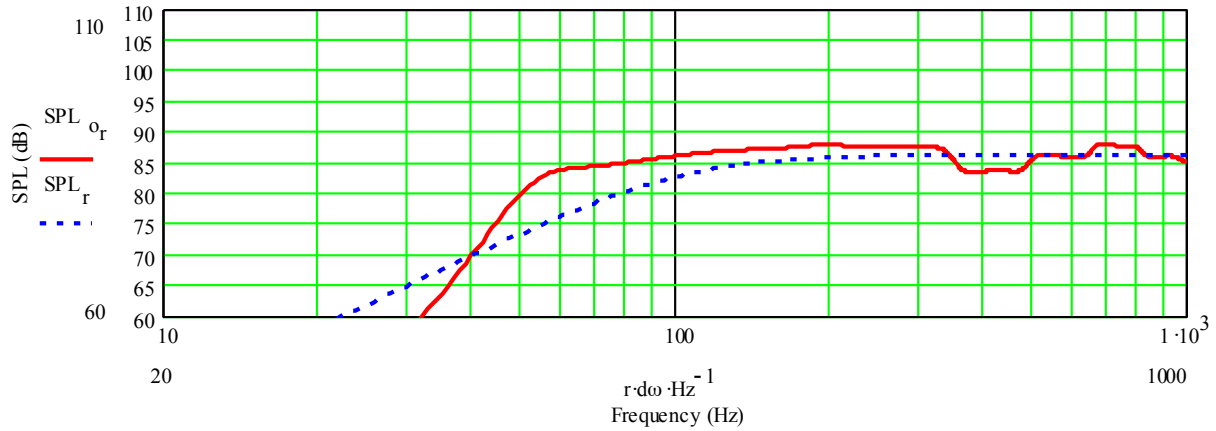
Woofer Displacement:



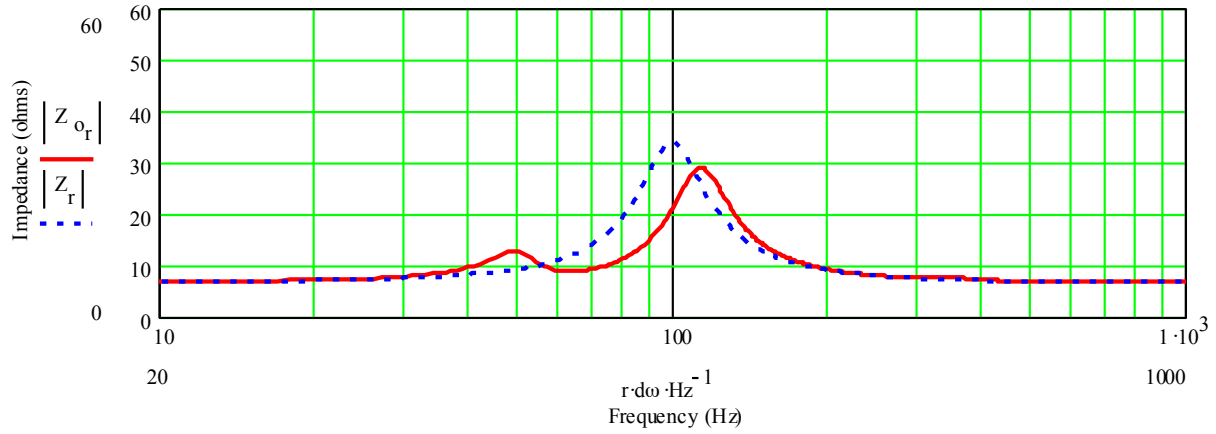
Circlo-MLTL Damped

Damping upper two third 35g.

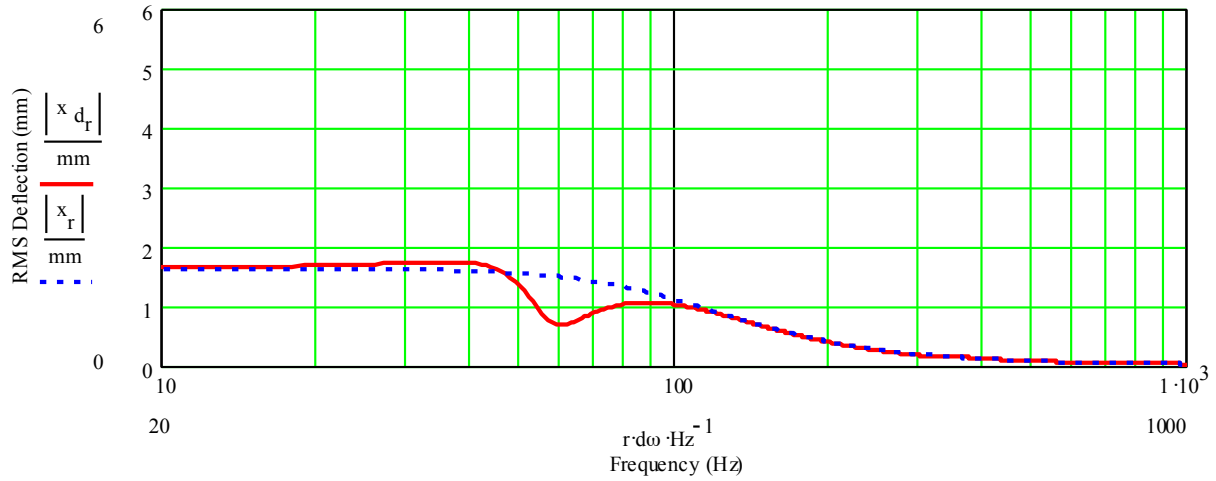
SPL:



Impedance:



Woofer Displacement:



TABAQ is designed by Bjørn Johannesen, using software from Martin J. King.