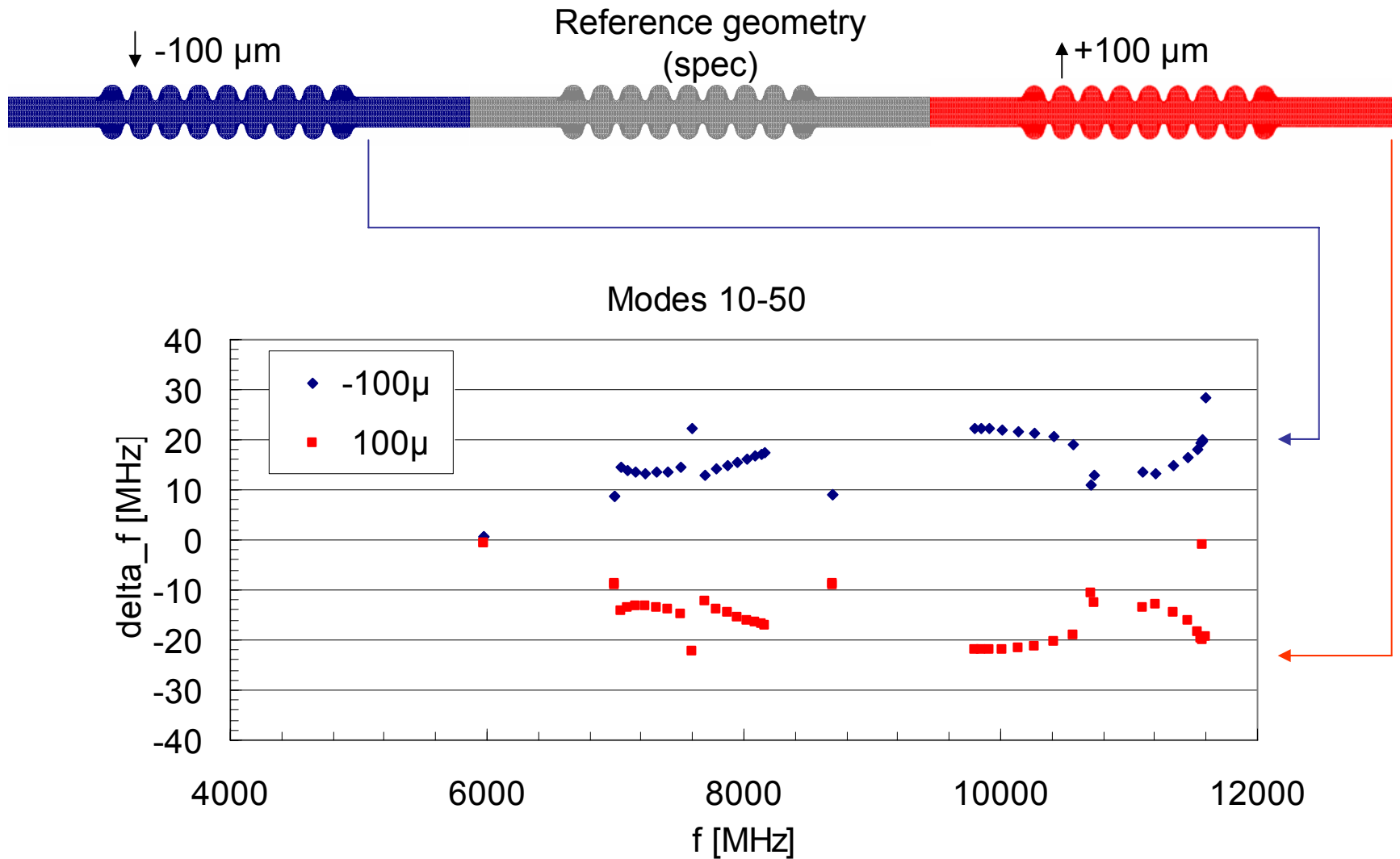


Monopole mode trapping in the 3.9 GHz cryomodule

J. Sekutowicz, MPY

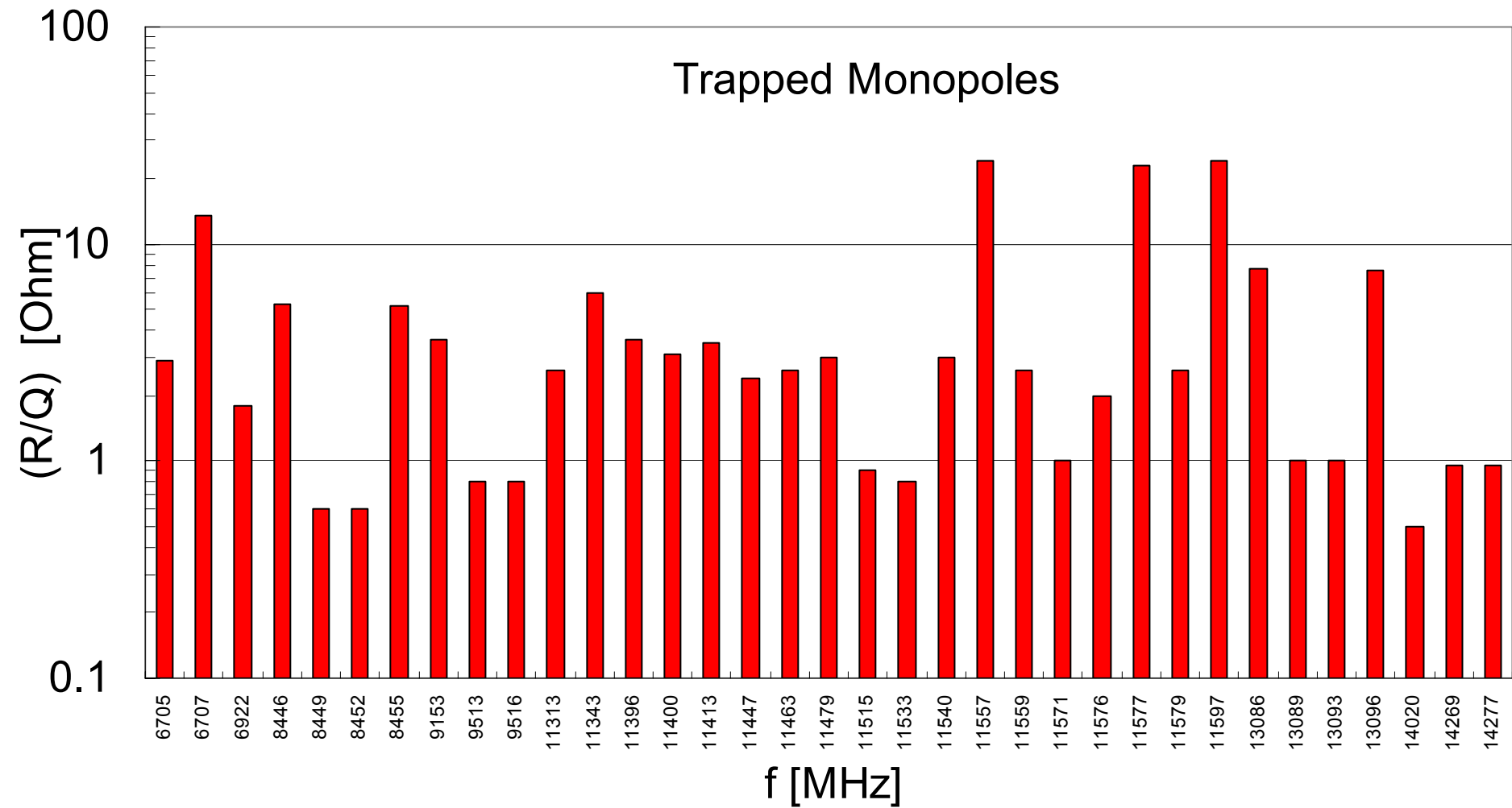
21.01.2008

3-cavity string for the modeling

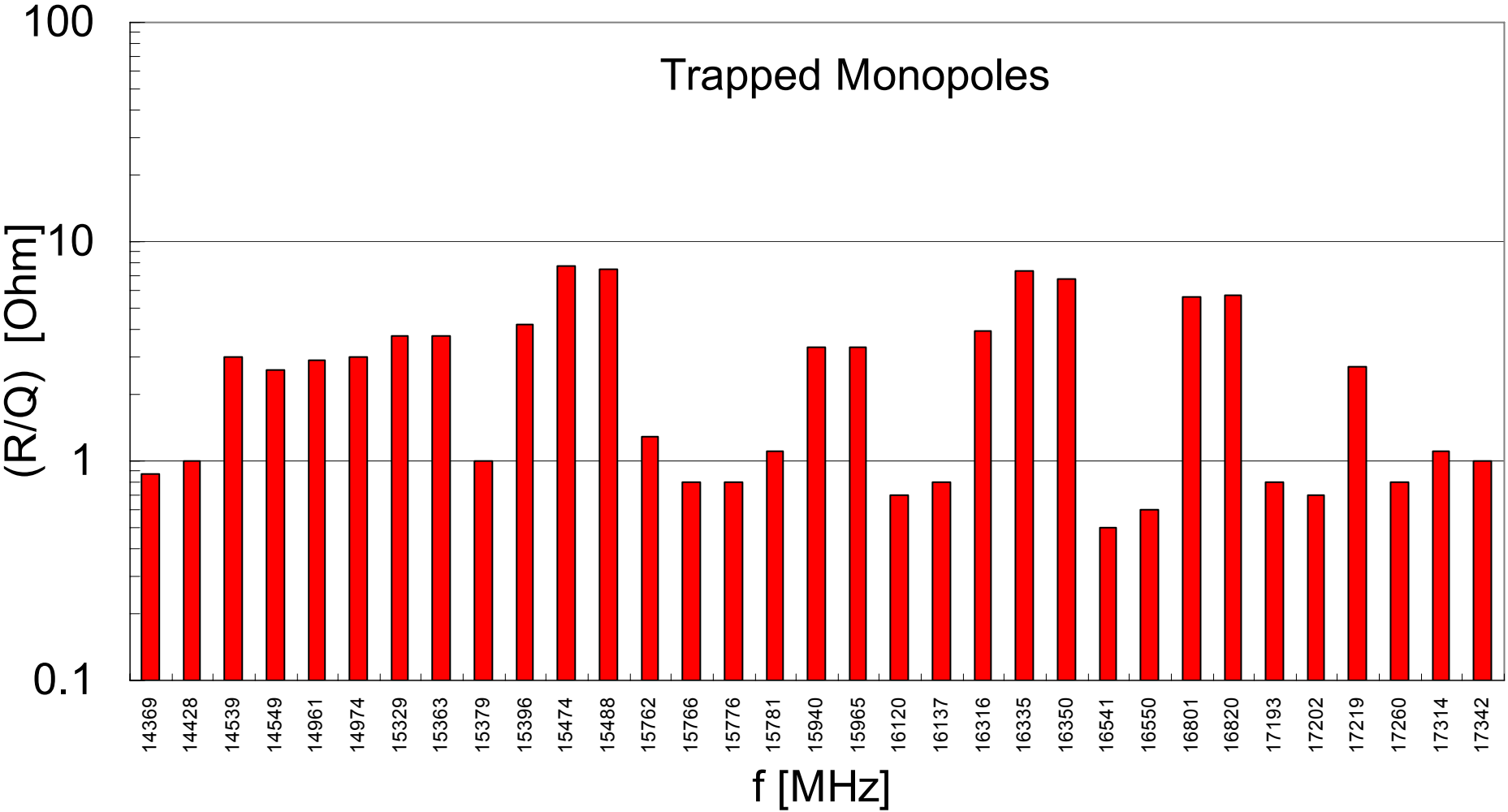


HOM frequency shift due to geometry perturbation

Trapped Monopoles

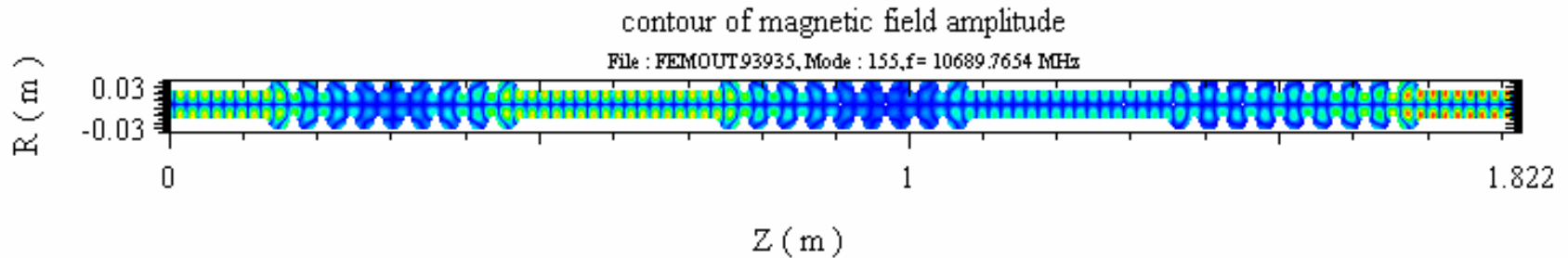


Continuation:

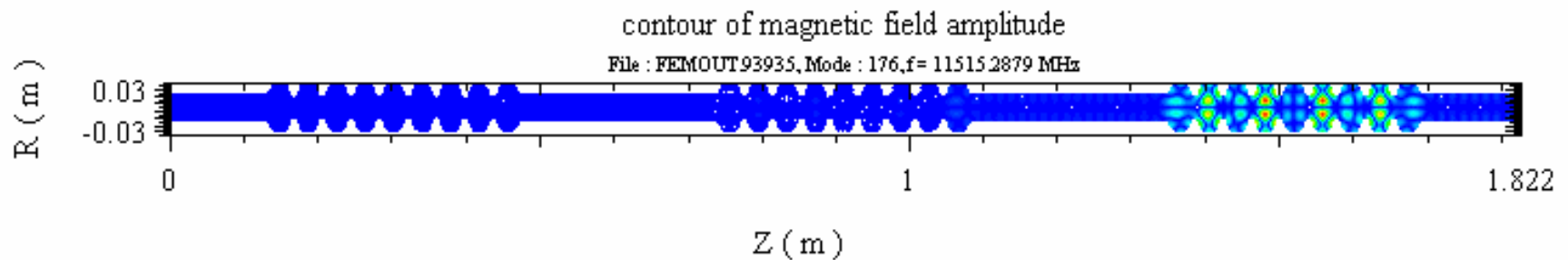
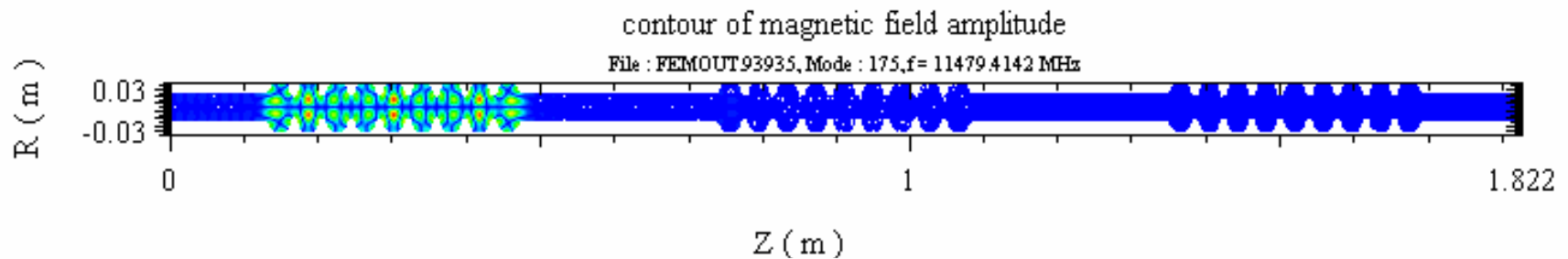


Examples

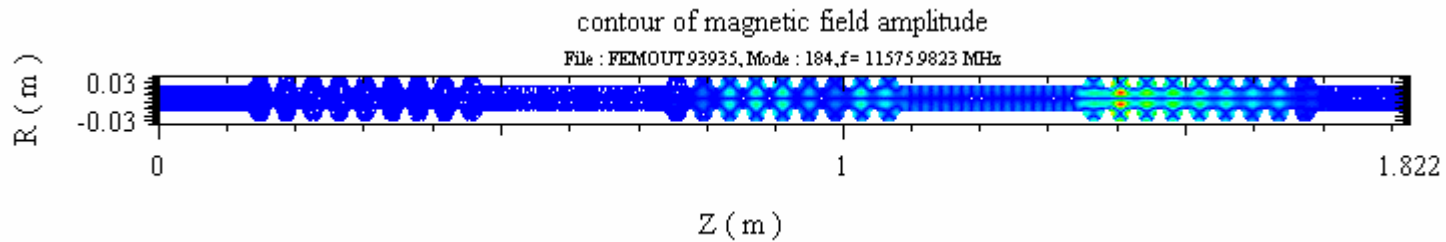
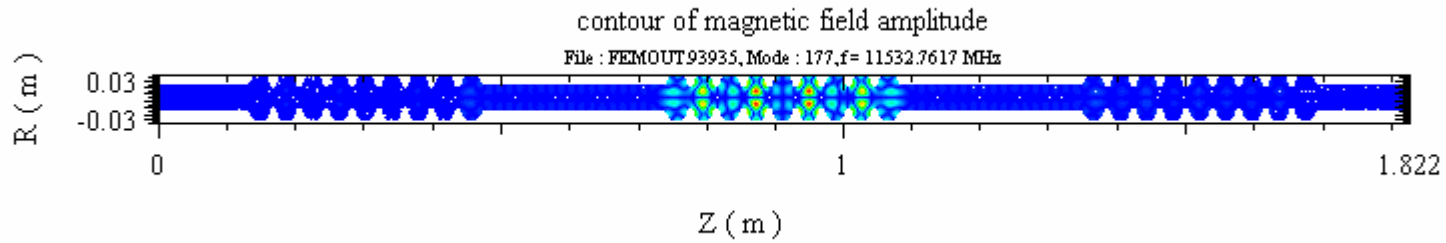
Propagating mode



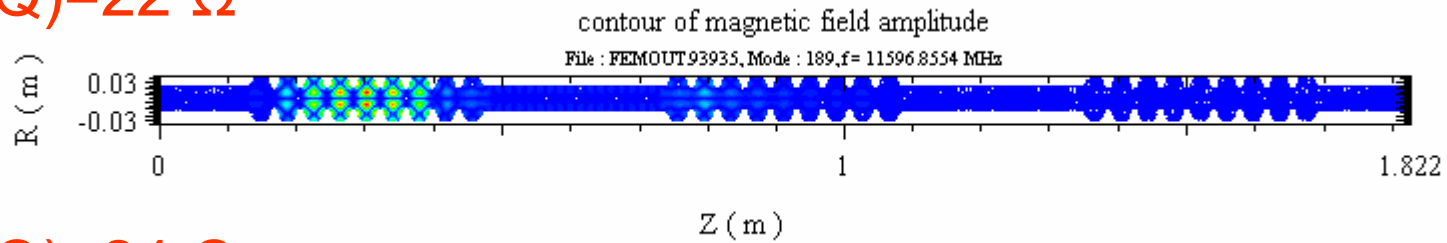
Trapped mode



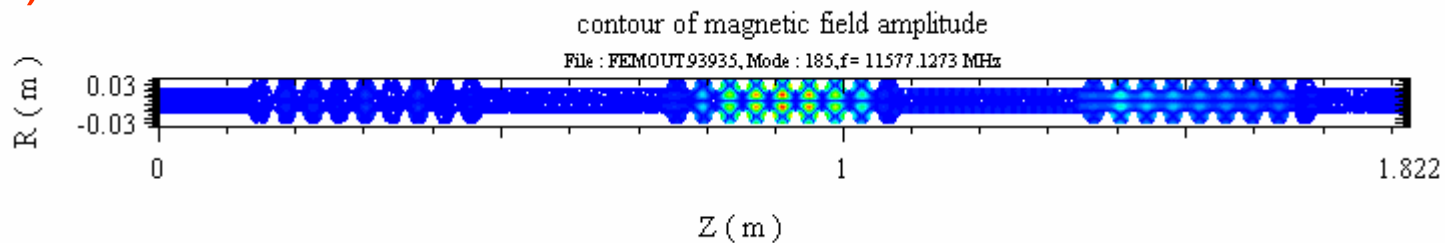
Trapped mode, cont.



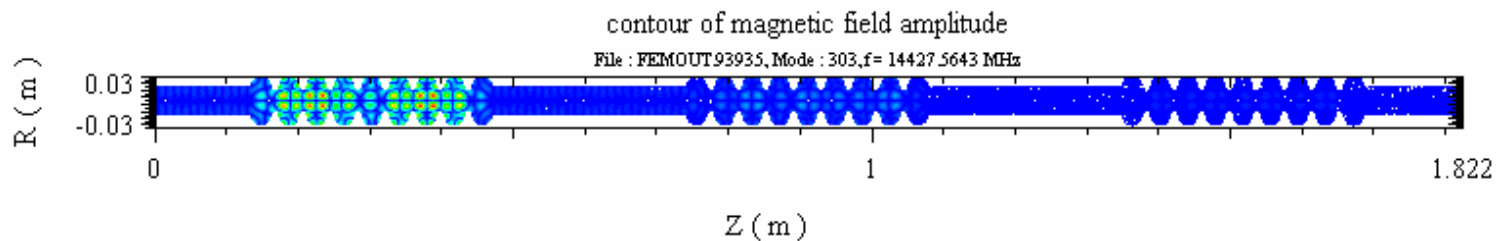
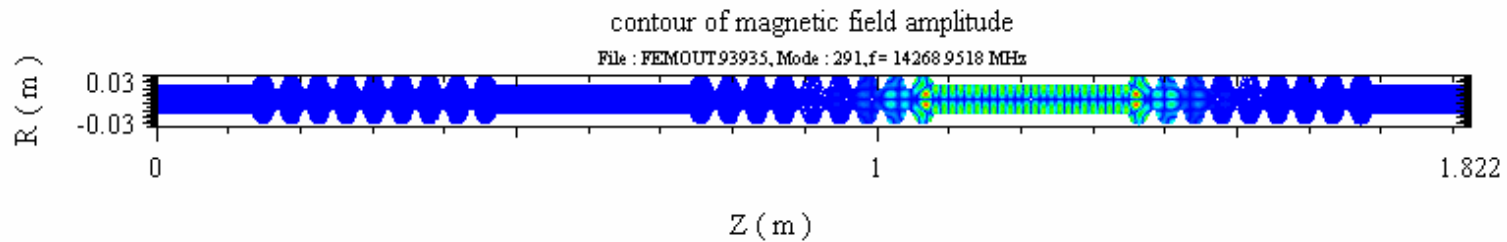
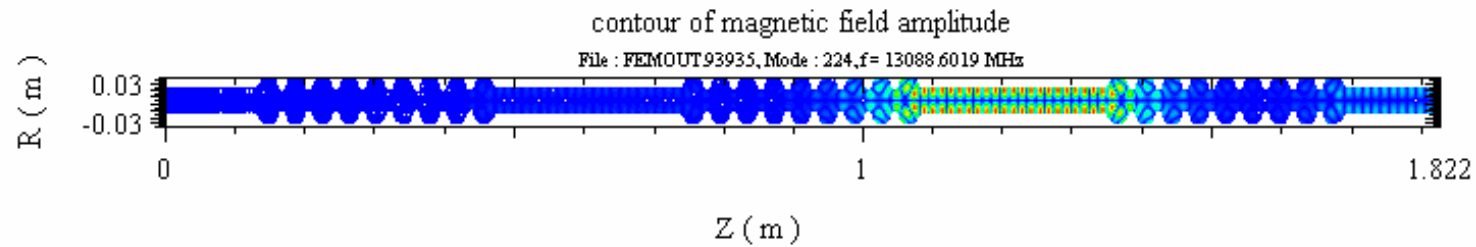
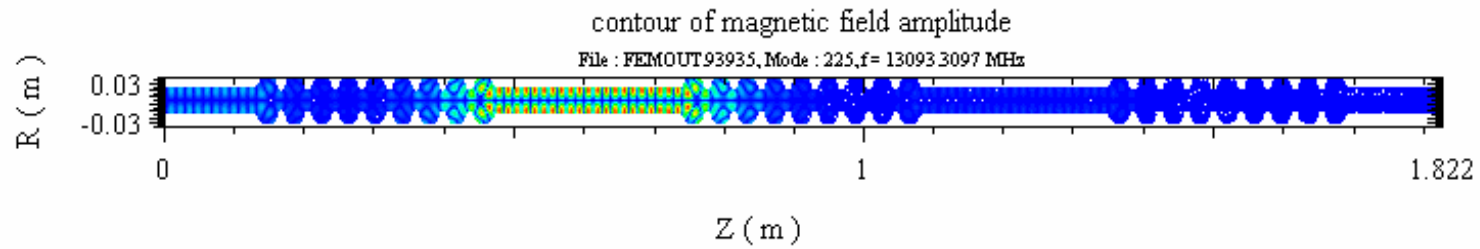
$(R/Q)=22 \Omega$



$(R/Q)=24 \Omega$

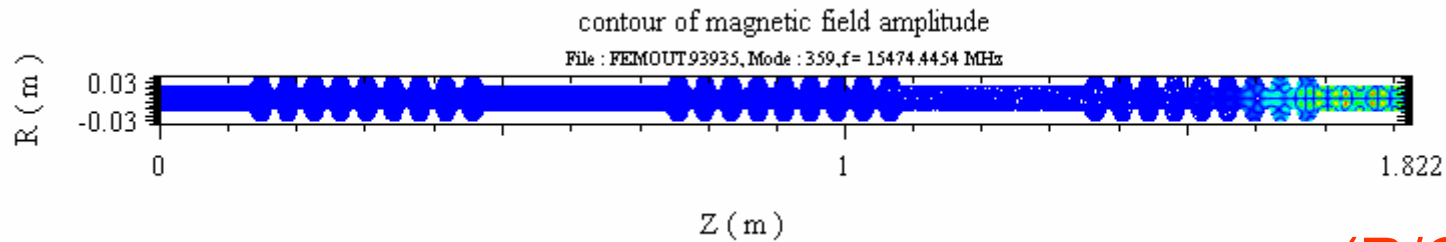


Trapped mode, cont.

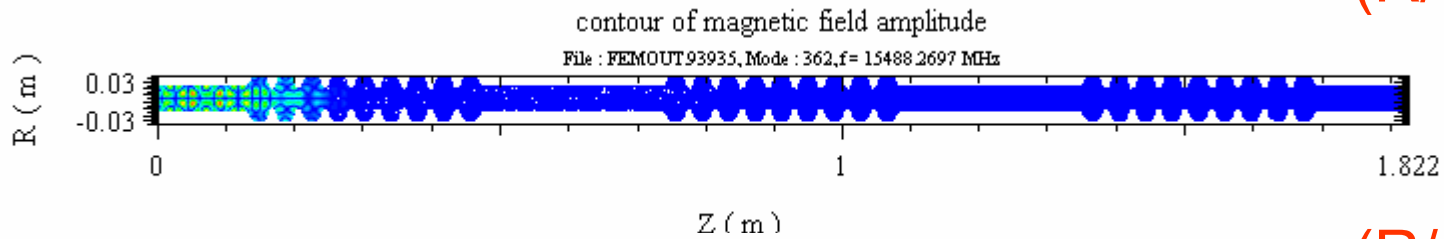


Trapped mode, cont.

$(R/Q)=7.8 \Omega$



$(R/Q)=7.3 \Omega$



$(R/Q)=7 \Omega$

