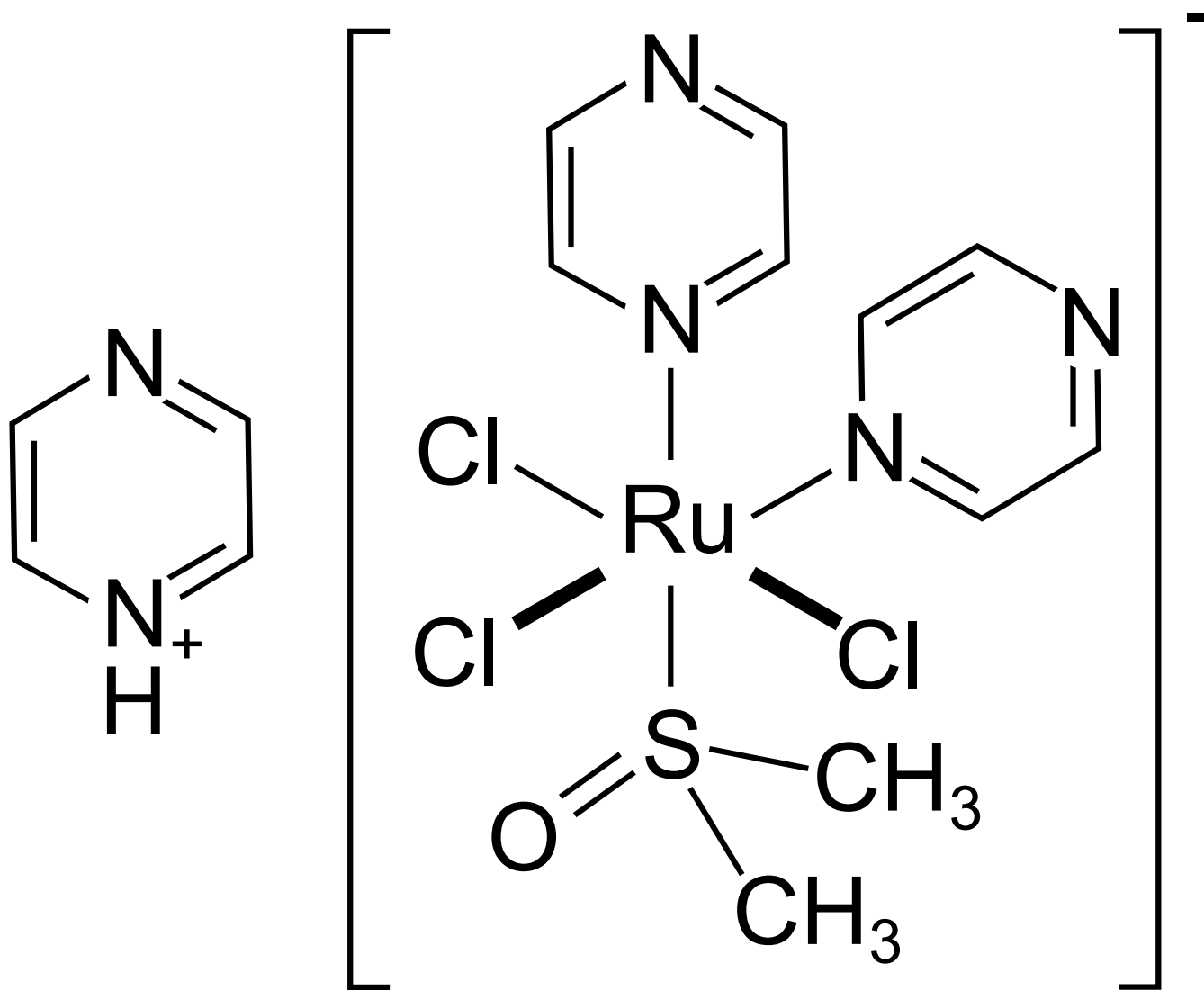


C8953
NMR structural analysis - seminar
1D ^{13}C -NMR

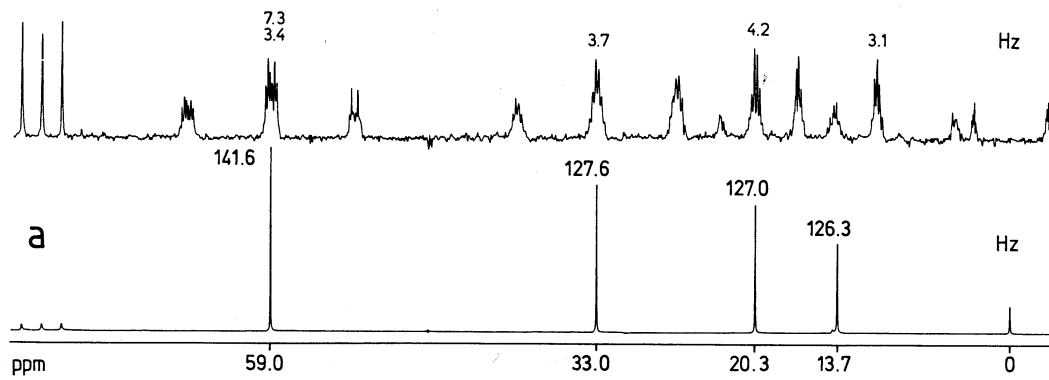
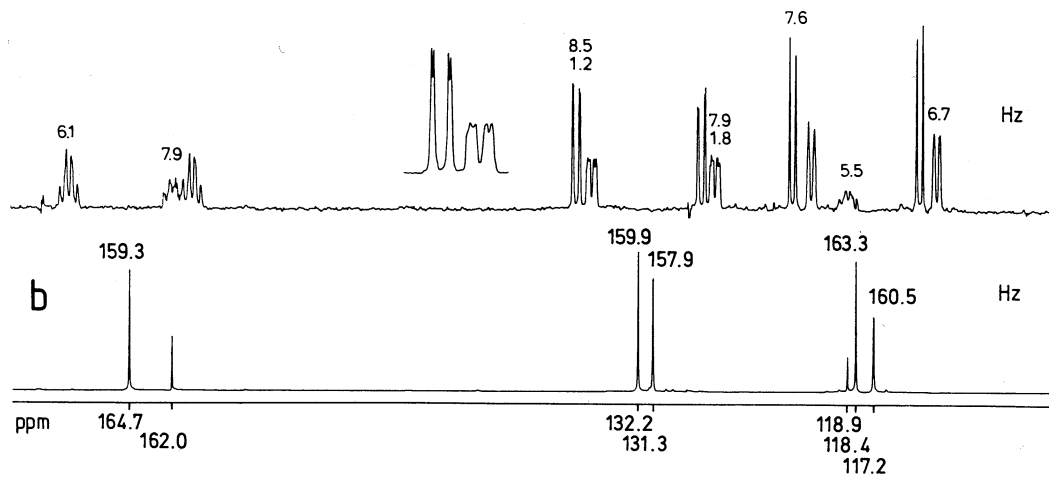
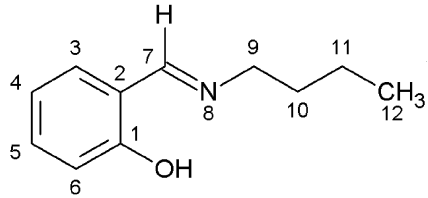
Jan Novotny
176003@mail.muni.cz

February 28, 2024

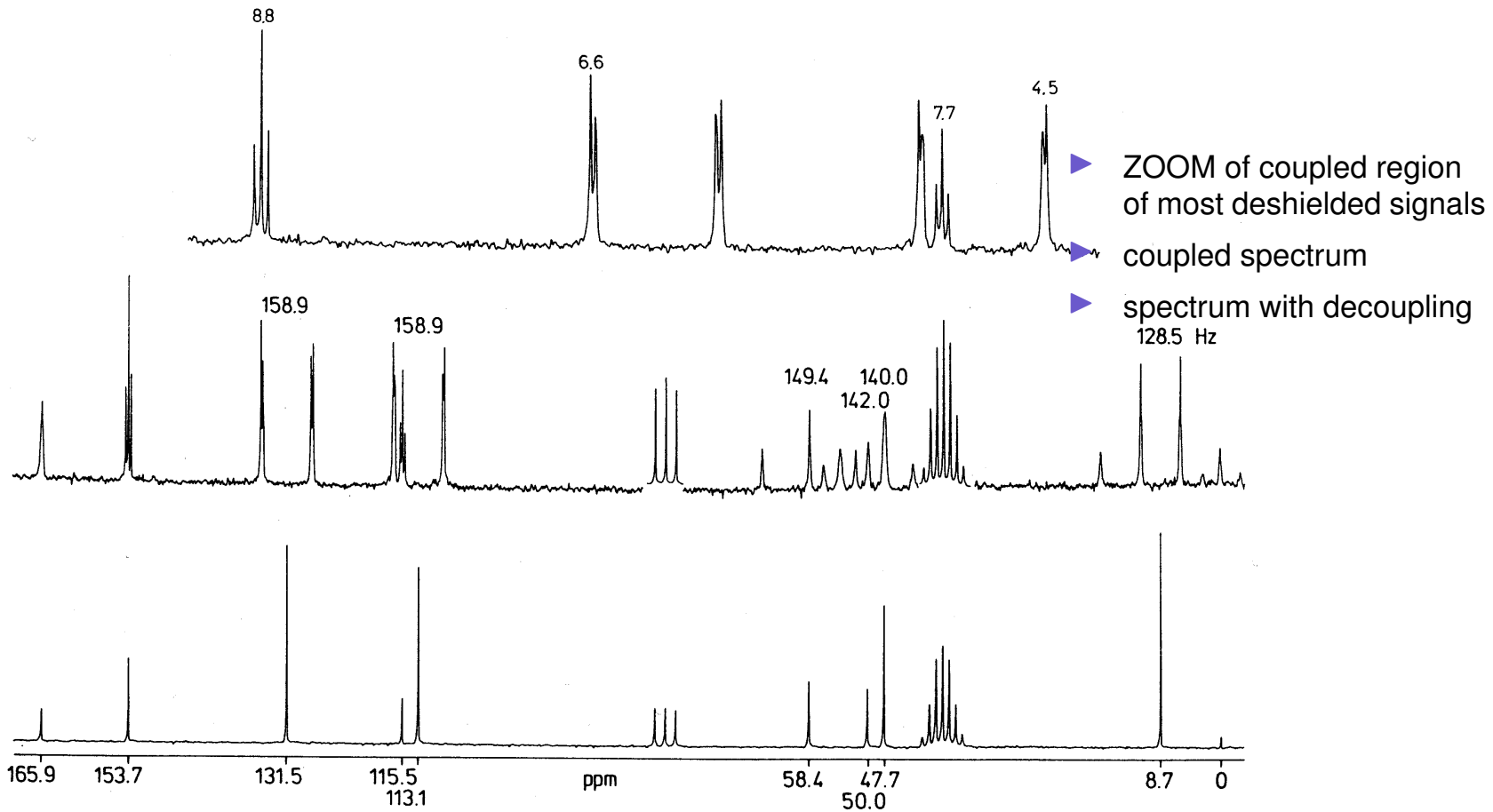
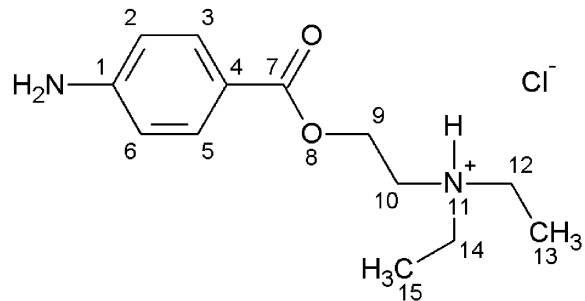
How many ^{13}C signal would you expect in the NMR spectrum?



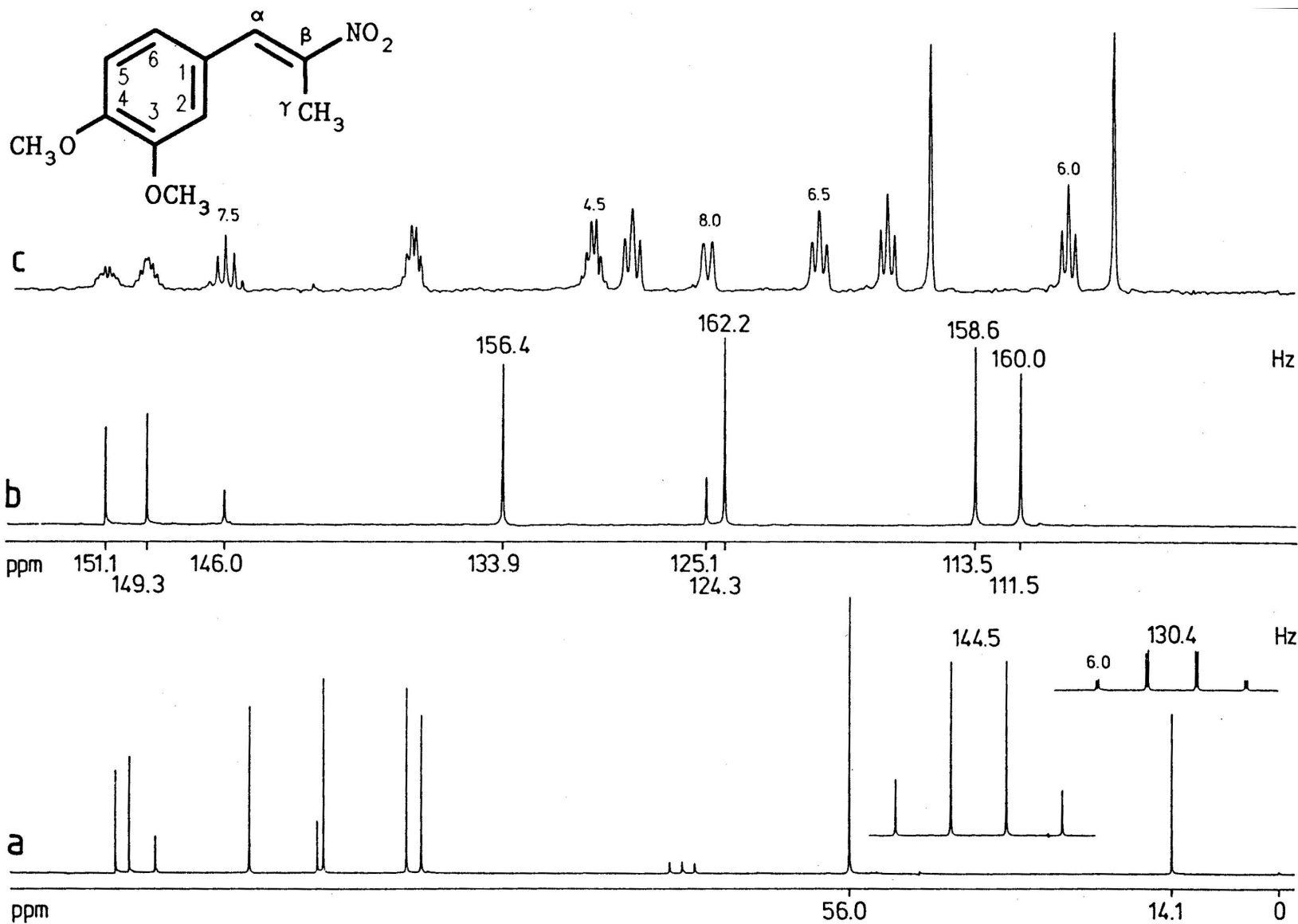
1D ^{13}C -NMR 1, bottom without CPD



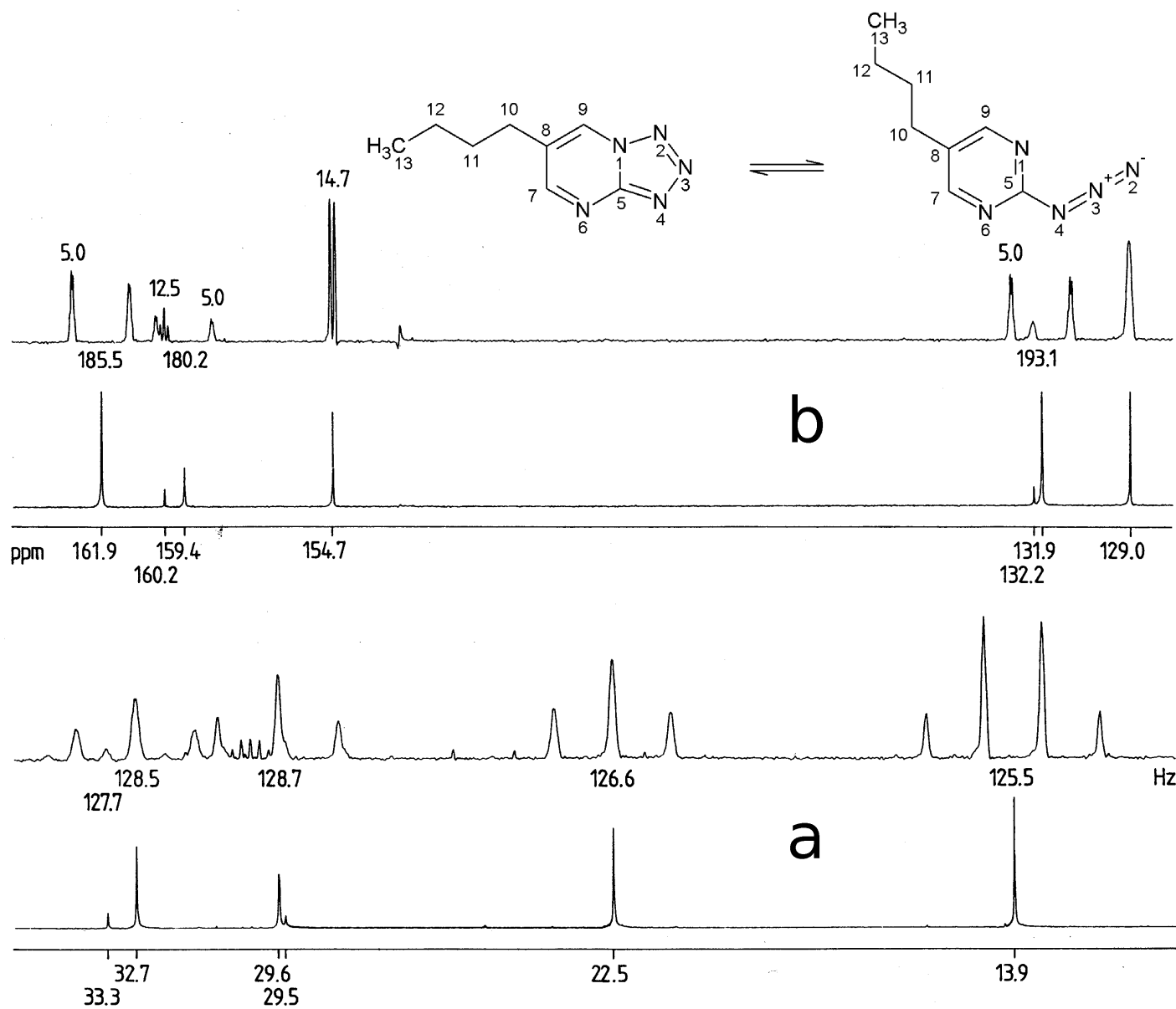
1D ^{13}C -NMR 2



1D ^{13}C -NMR 3, *b* - zoom of right region, *a* - full decoupled spectrum



1D ^{13}C -NMR 4, consider equilibrium minor-major form



Which form dominates and why?