

Geminal
Dihaloalkanes

Vicinal
Tetrahaloalkanes

Alkynes (DFW)

Carboxylic
Acids



Aldehydes,
Ketones

Vicinal
Diols

Vicinal or Geminal
Dihaloalkanes (Waco)

Epoxides

Alkenes (Austin)

Alcohols

Halohydrins

Thiols

Haloalkanes (S.M., N.B.)

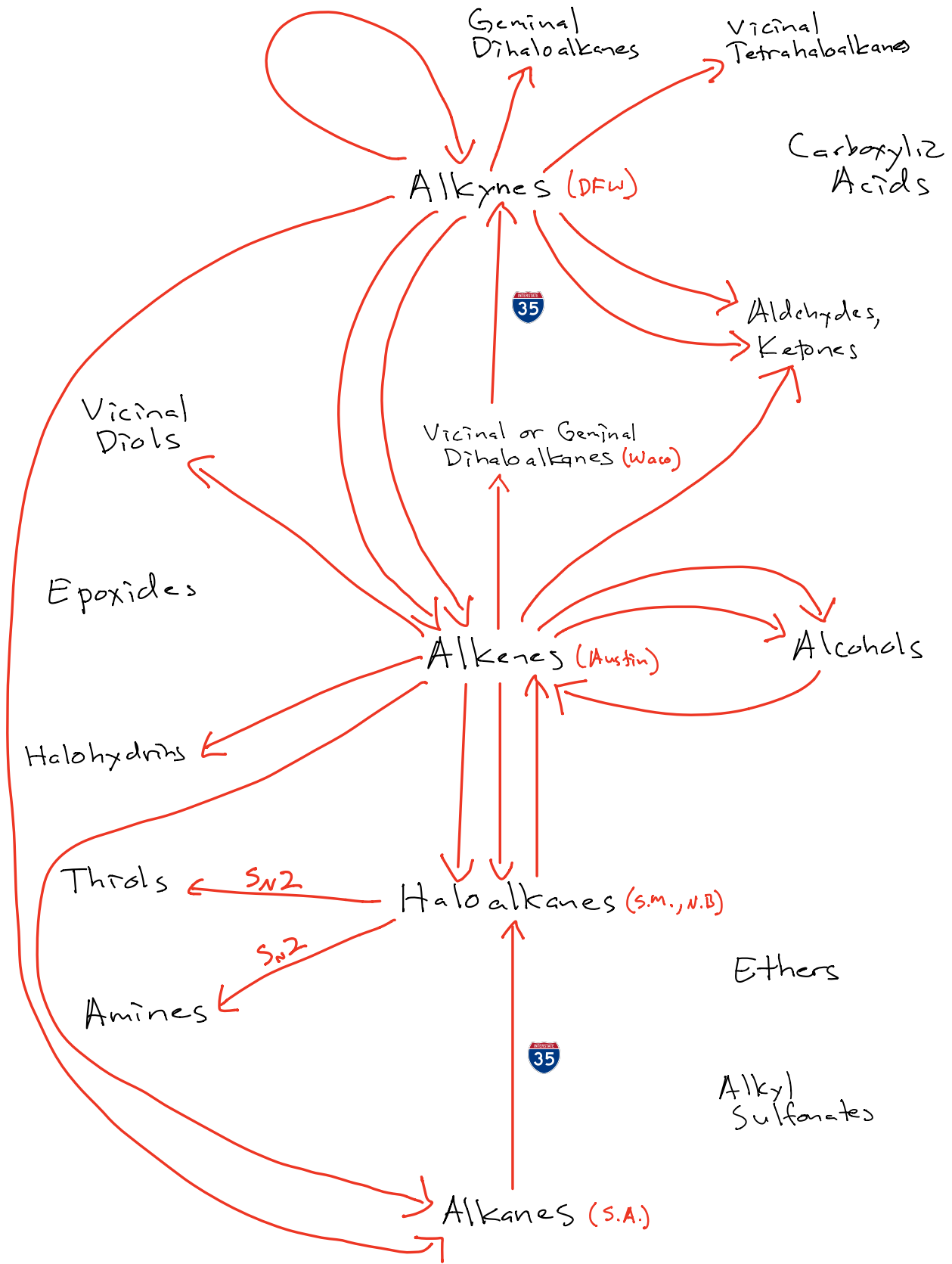
Ethers

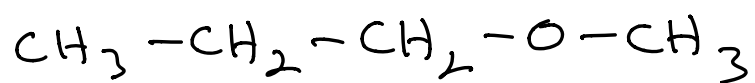
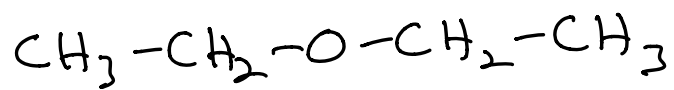
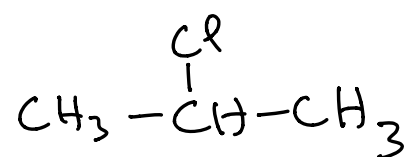
Amines

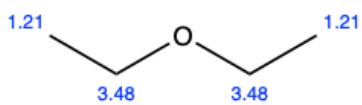


Alkyl
Sulfonates

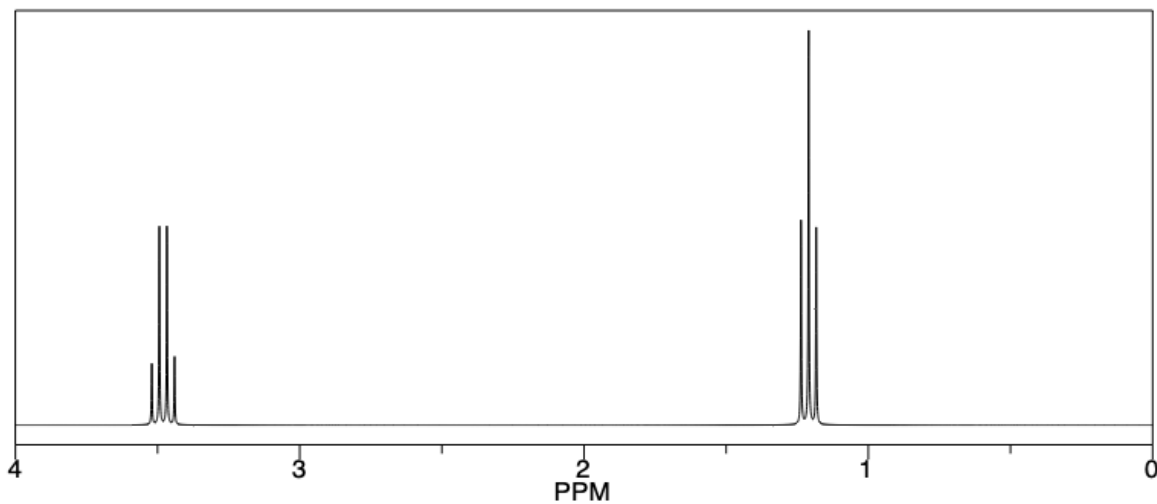
Alkanes (S.A.)



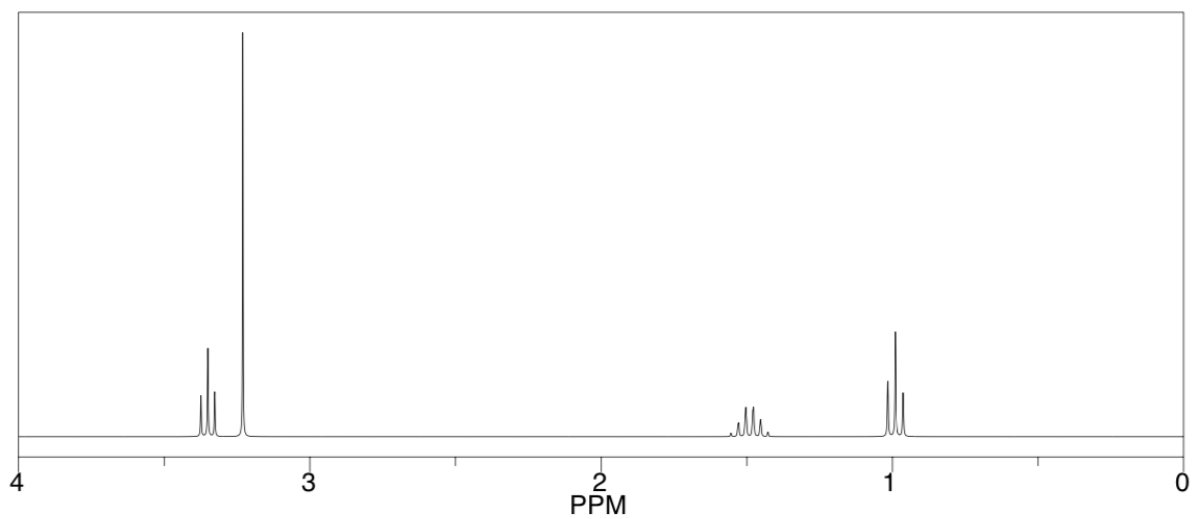


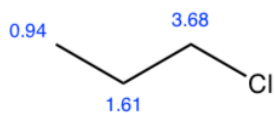


Estimation quality is indicated by color: good, medium, rough

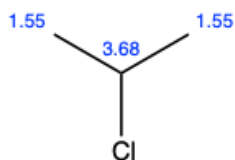
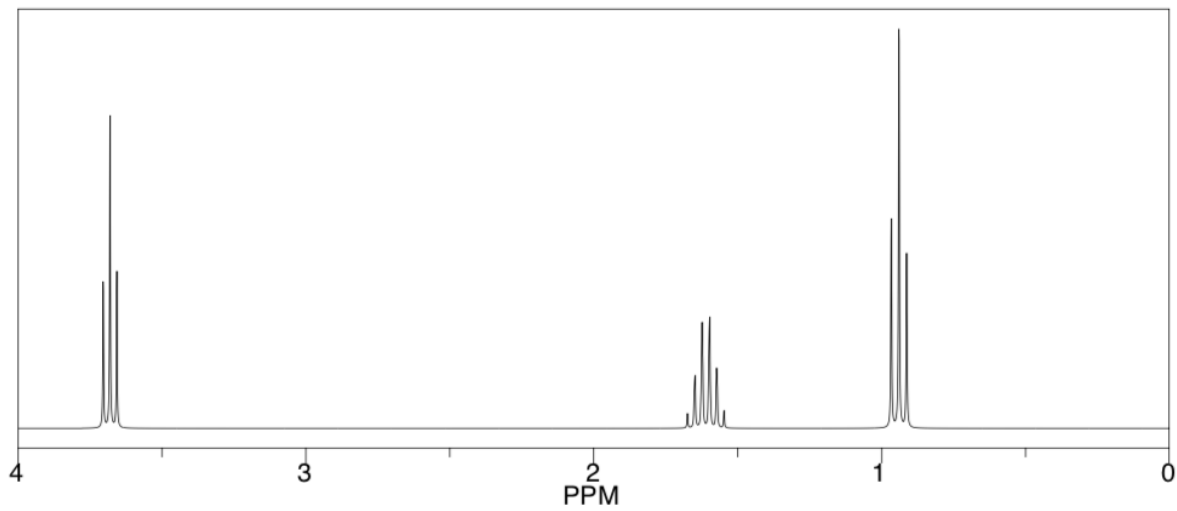


Estimation quality is indicated by color: good, medium, rough

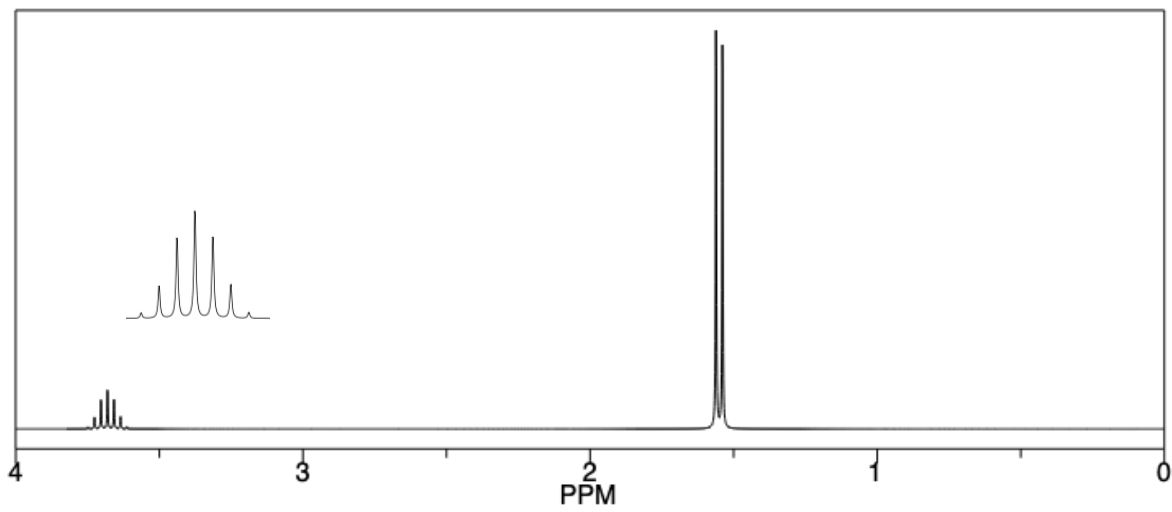




Estimation quality is indicated by color: **good**, **medium**, **rough**



Estimation quality is indicated by color: **good**, **medium**, **rough**



V. When solving NMR spectra problems:

- 1) Determine number and relative integrations of signals predicted for a given structure**
- 2) Make sure the splitting pattern matches with the spectrum for each signal and**
- 3) If the number and relative integrations as well as splitting patterns match with the spectra, compare expected chemical shifts with those of the signals in the spectra.**

