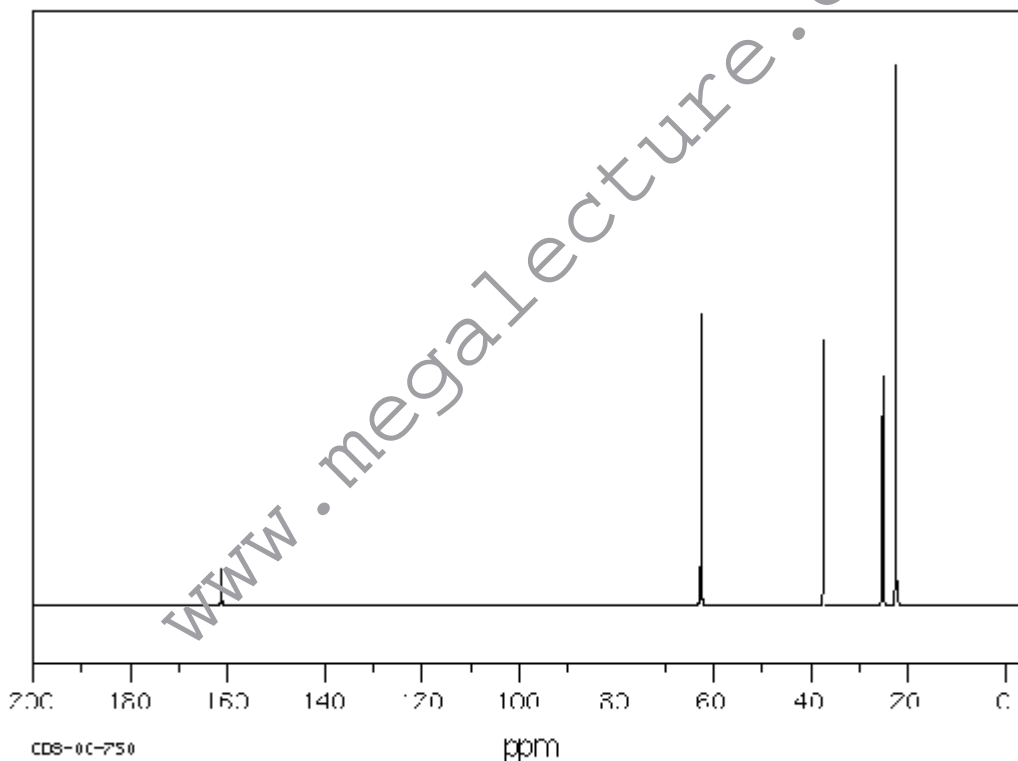
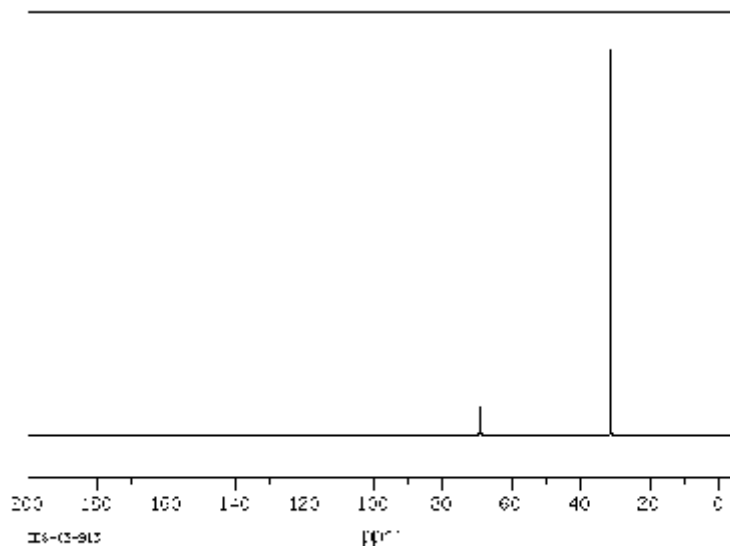


Topic 20 Exercise 2 – carbon-13 nmr spectra

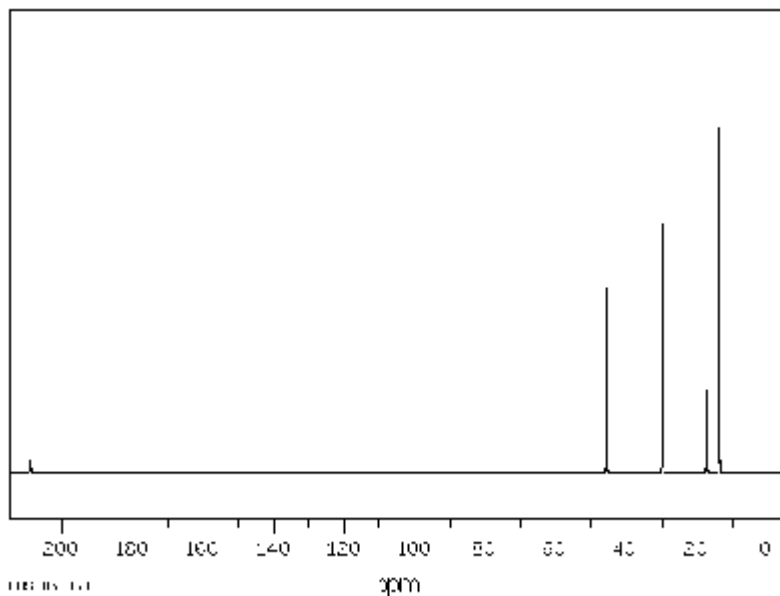
1.
  - a) Suggest how propanal and propanone could be distinguished from their carbon-13 nmr spectra.
  - b) Suggest how propan-2-ol and propanone could be distinguished from their carbon-13 nmr spectra.
  - c) Predict the number of peaks in the carbon-13 nmr spectrum of:
    - i) butanone
    - ii) pentan-2-one
    - iii) pentan-3-one
2. Can you find seven different molecules which could be responsible for the carbon-13 nmr spectrum below? (rmm = 116)



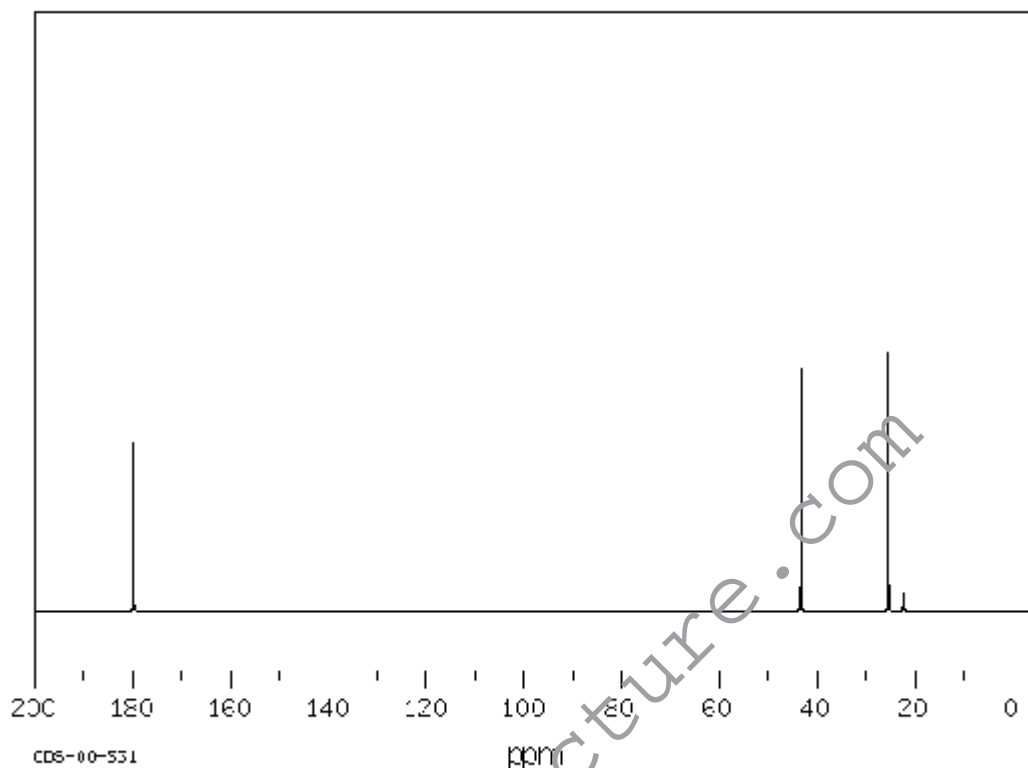
3. Can you identify this molecule (rmm = 74)?



4. Can you find three possible structures for this molecule (rmm = 86)?



5. Can you identify this molecule (rmm = 102)



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