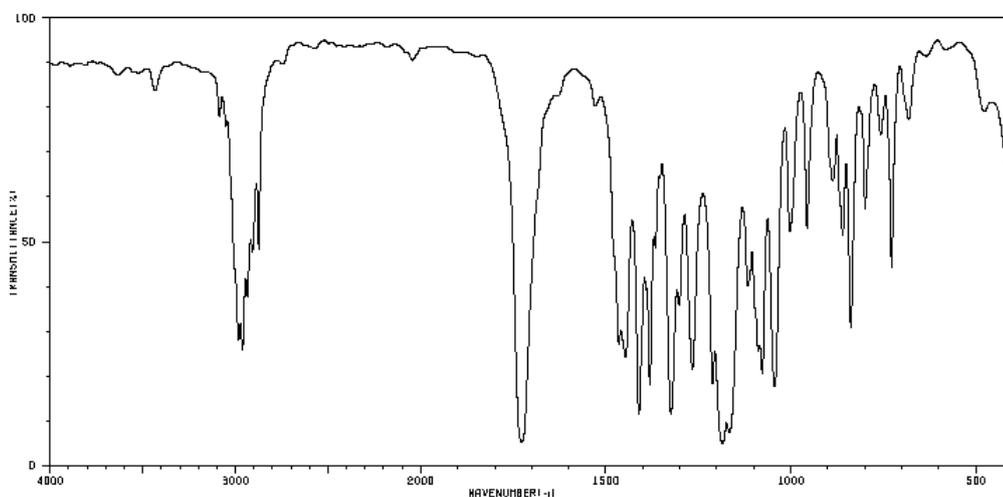
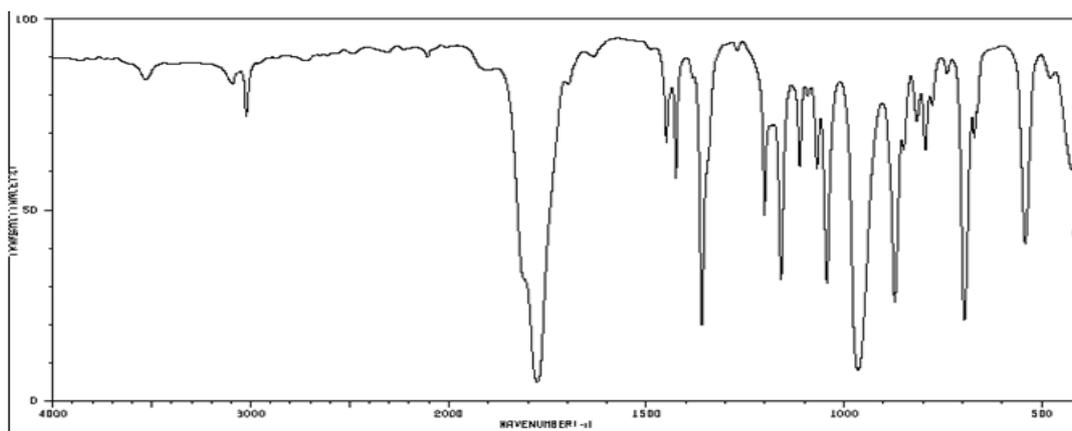
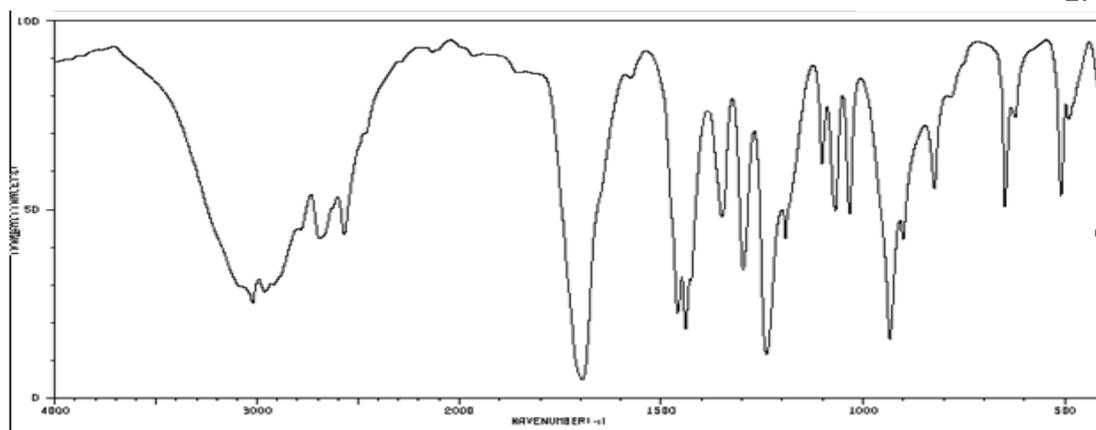
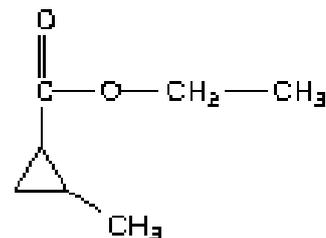
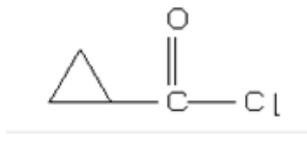
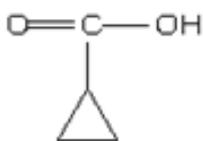


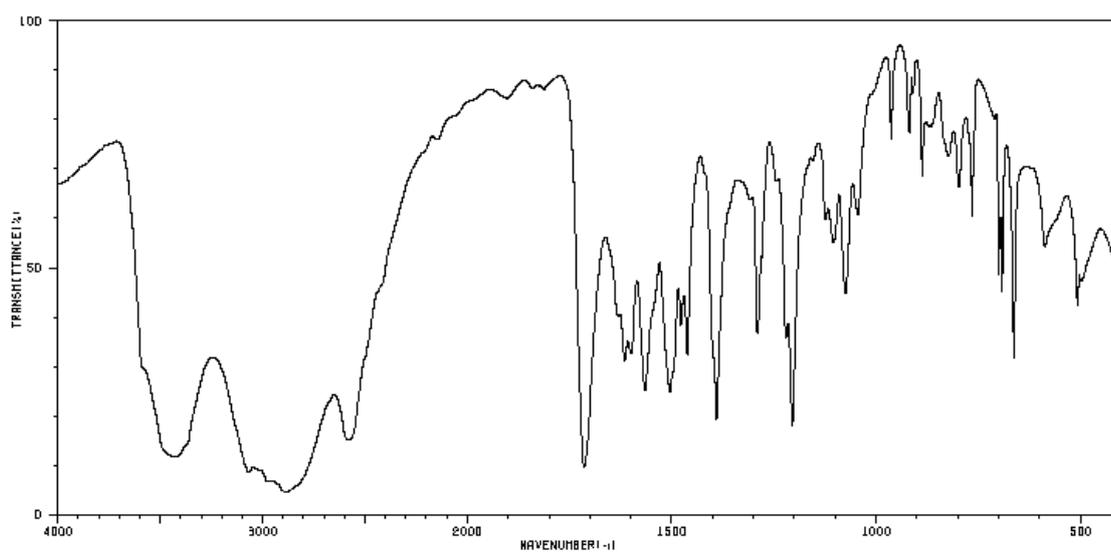
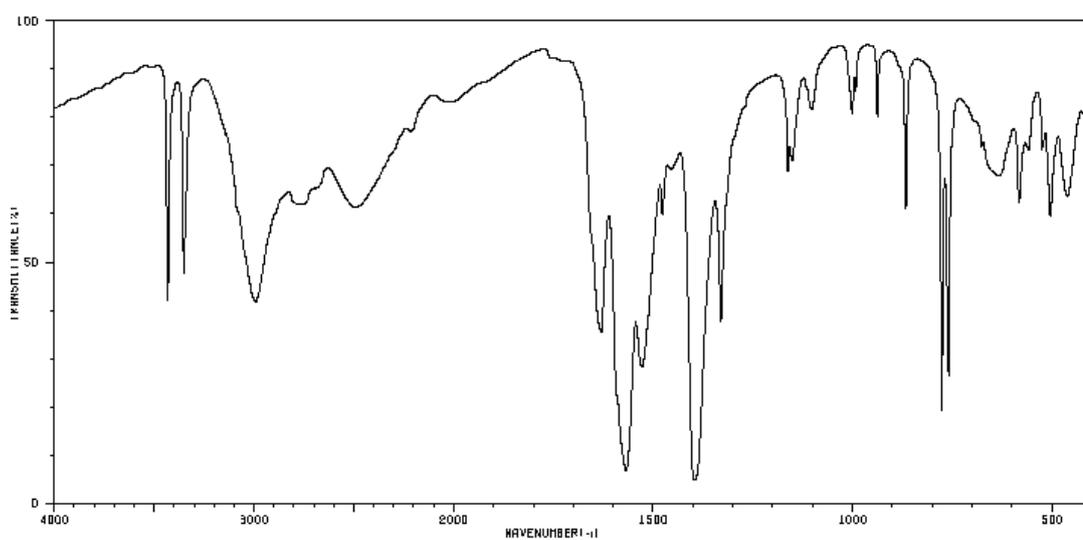
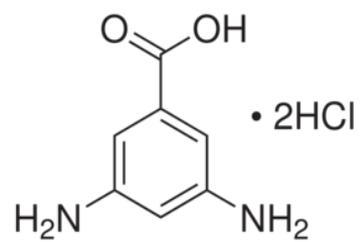
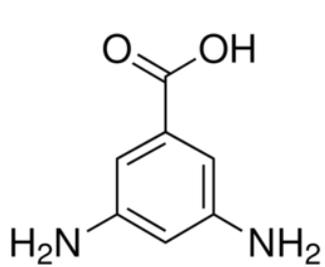
EXERCÍCIOS DE INFRAVERMELHO – Parte 2 - 2016

1 – Relacione cada uma das estruturas químicas apresentadas abaixo com o espectro de infravermelho correspondente. Explique as absorções.

a)

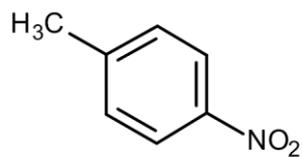


b)

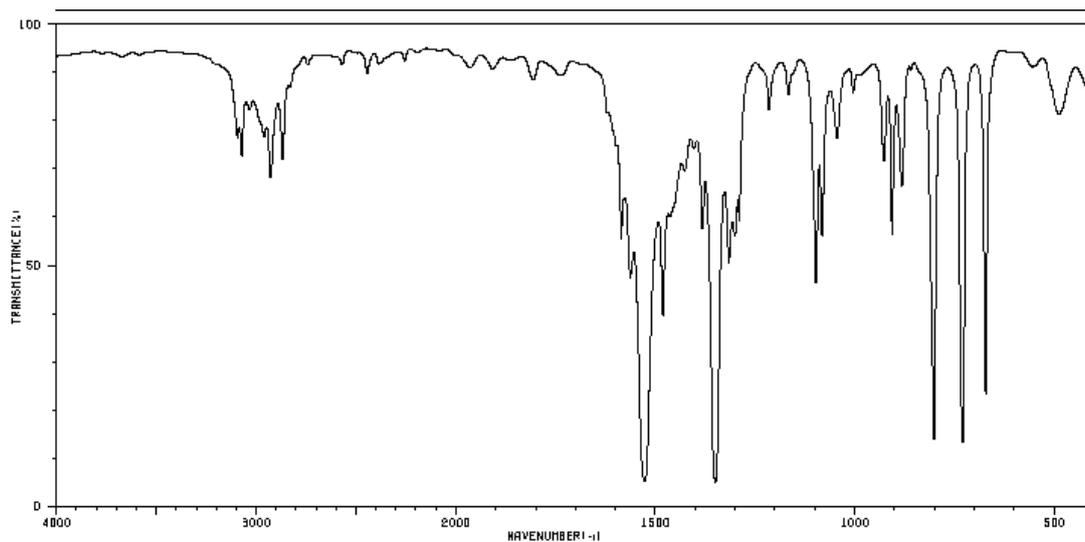


2 – Analise os espectros abaixo, relacionando e explicando as principais bandas de absorção

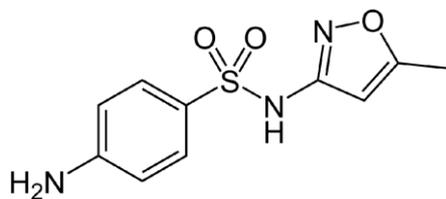
a)



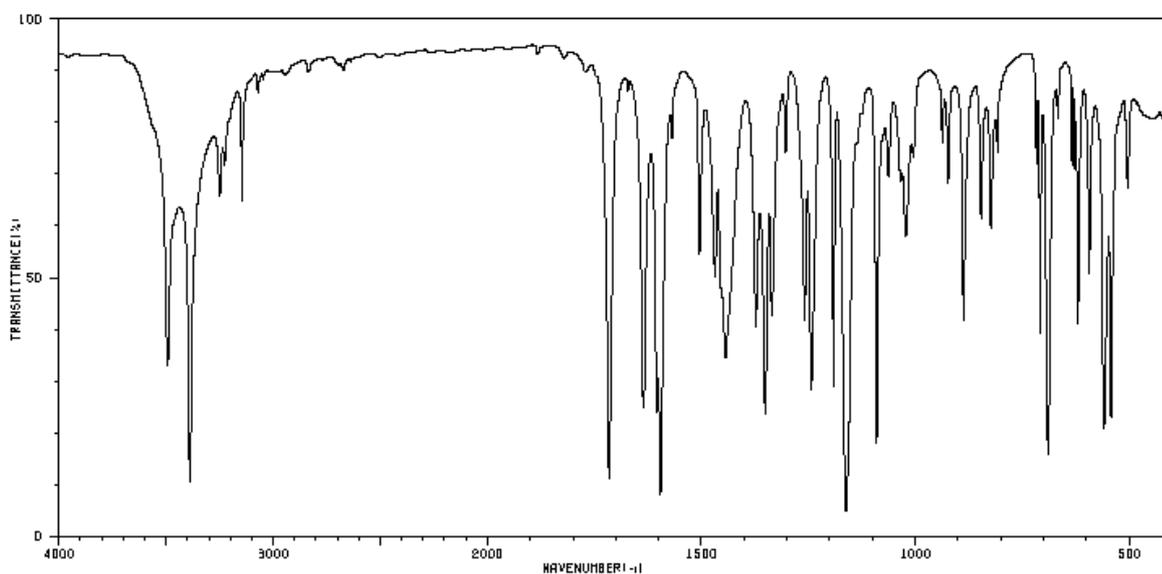
m-nitrotolueno



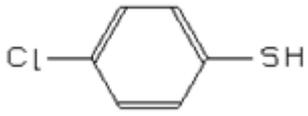
b)



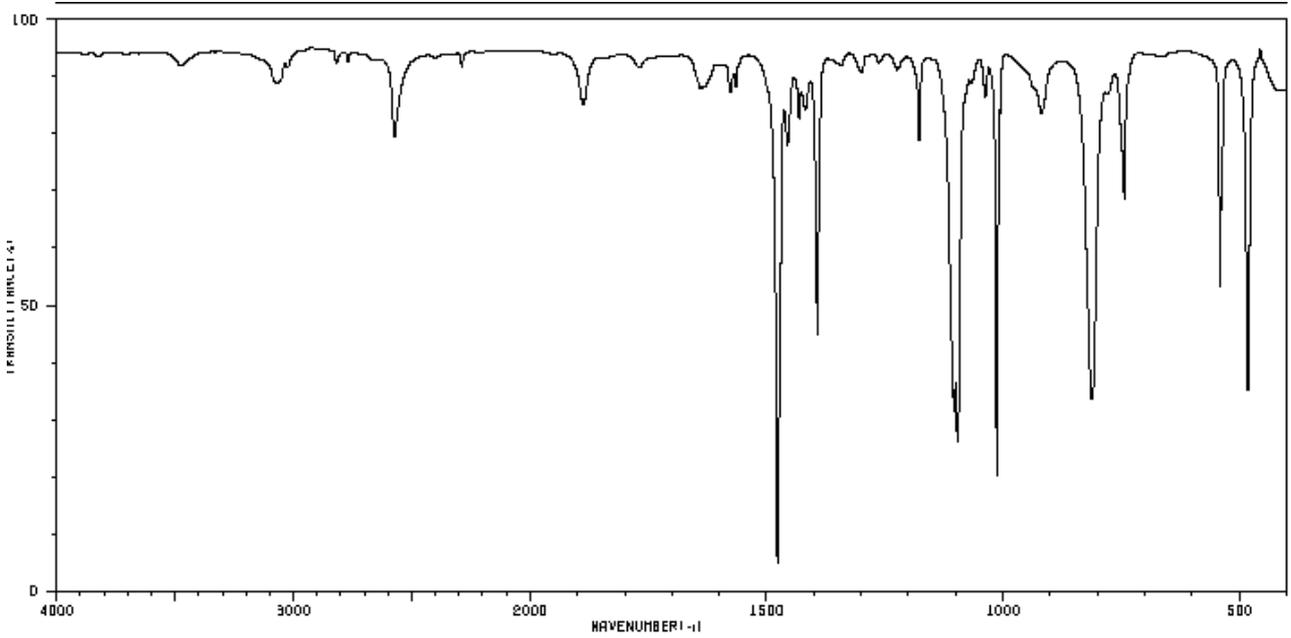
sulfametoxazol



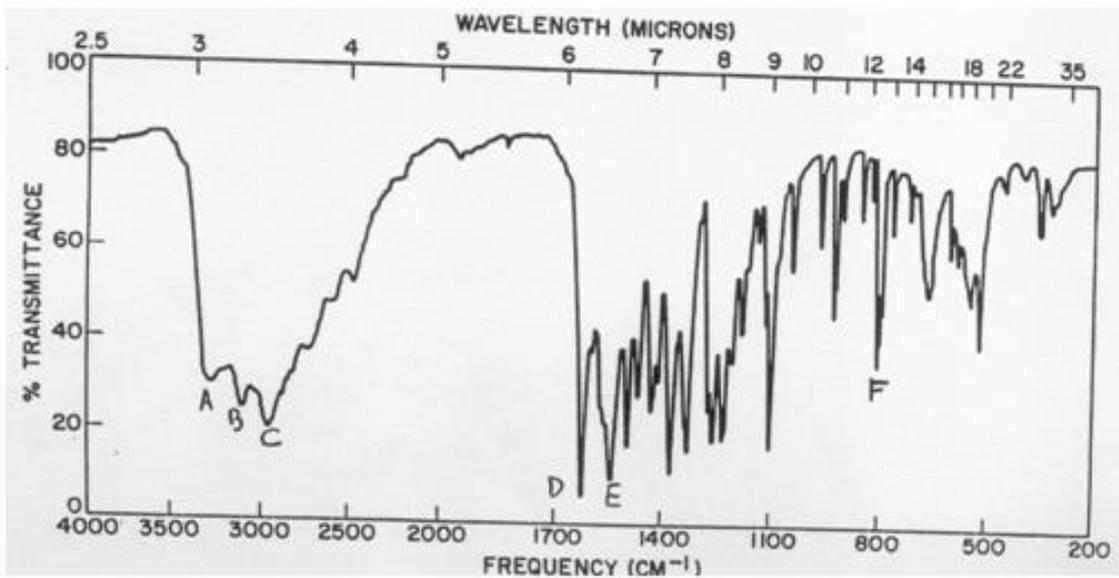
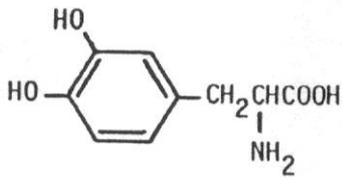
c)



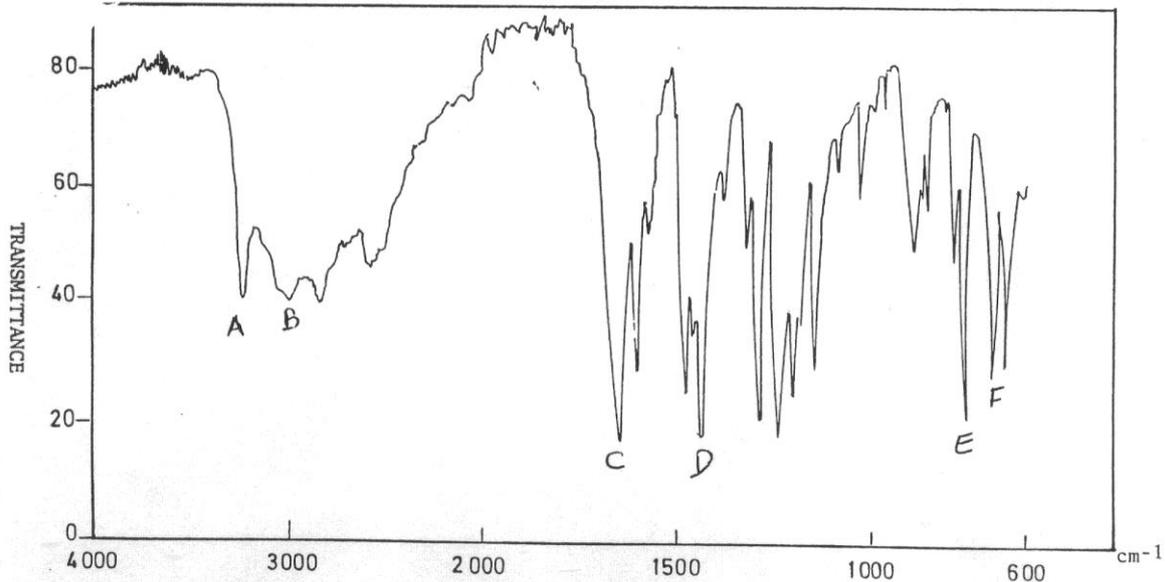
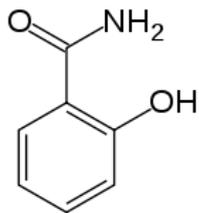
p-clorobenzenotiol



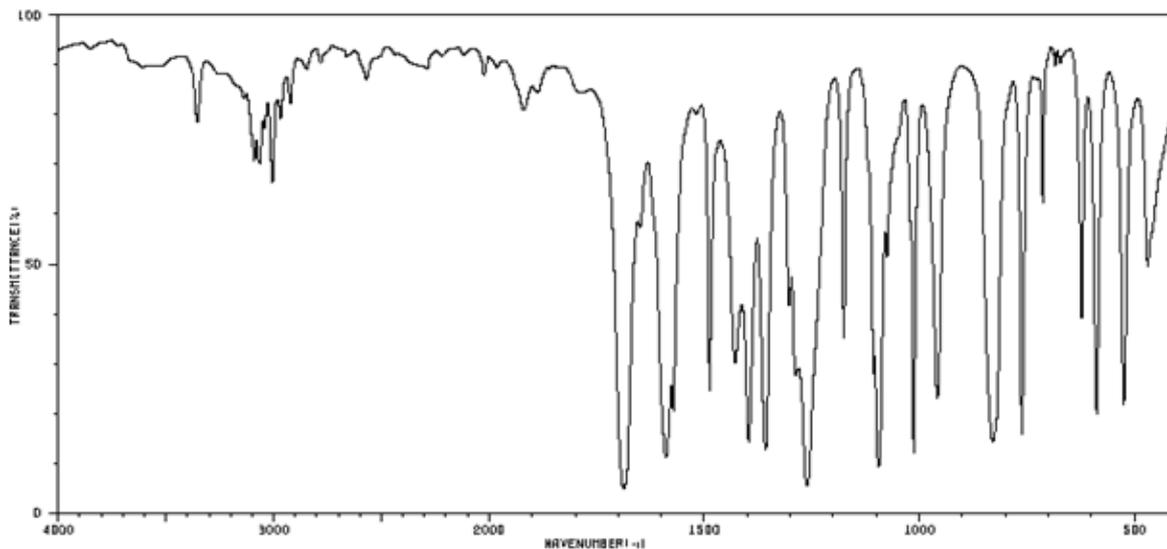
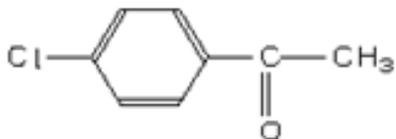
d) Levodopa(em KBr)



e) Salicilamida em Kbr

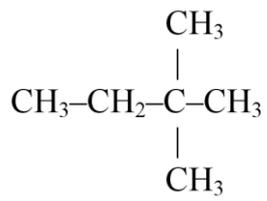


f) 4-cloroacetofenona

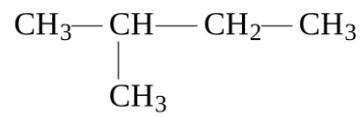


3 – Relacione cada estrutura com seu espectro. Explique.

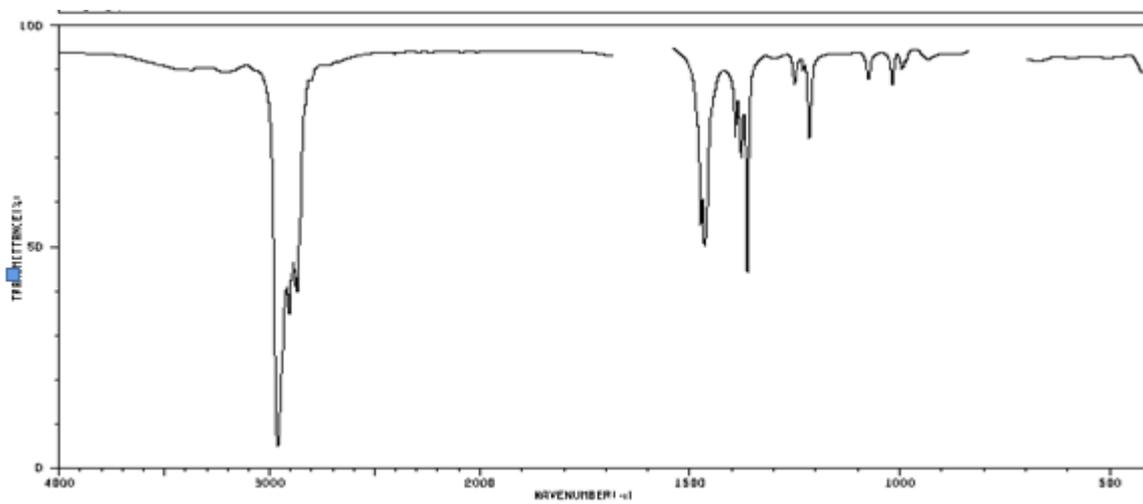
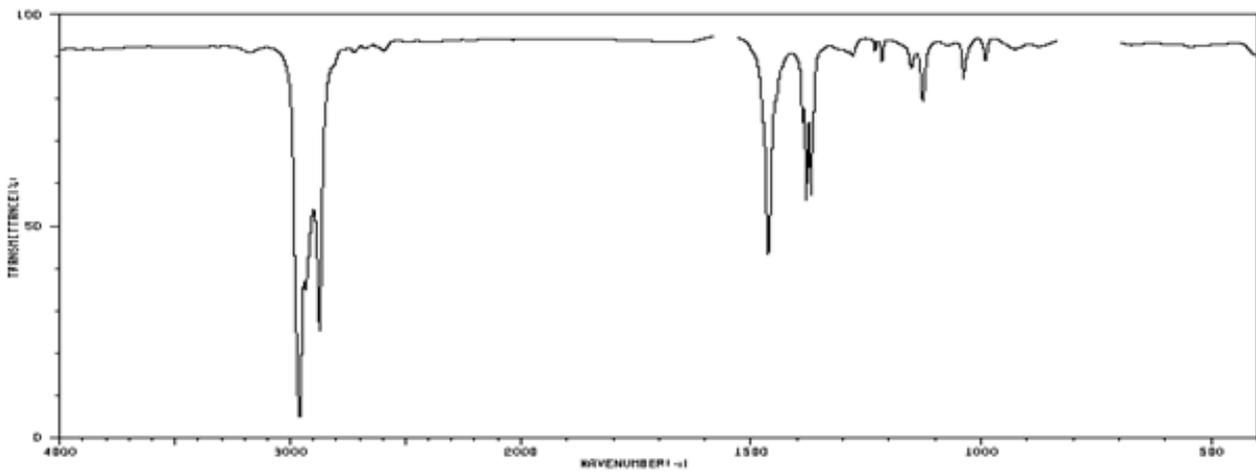
a)



2,2-dimetilbutano



2,3- dimetilbutano



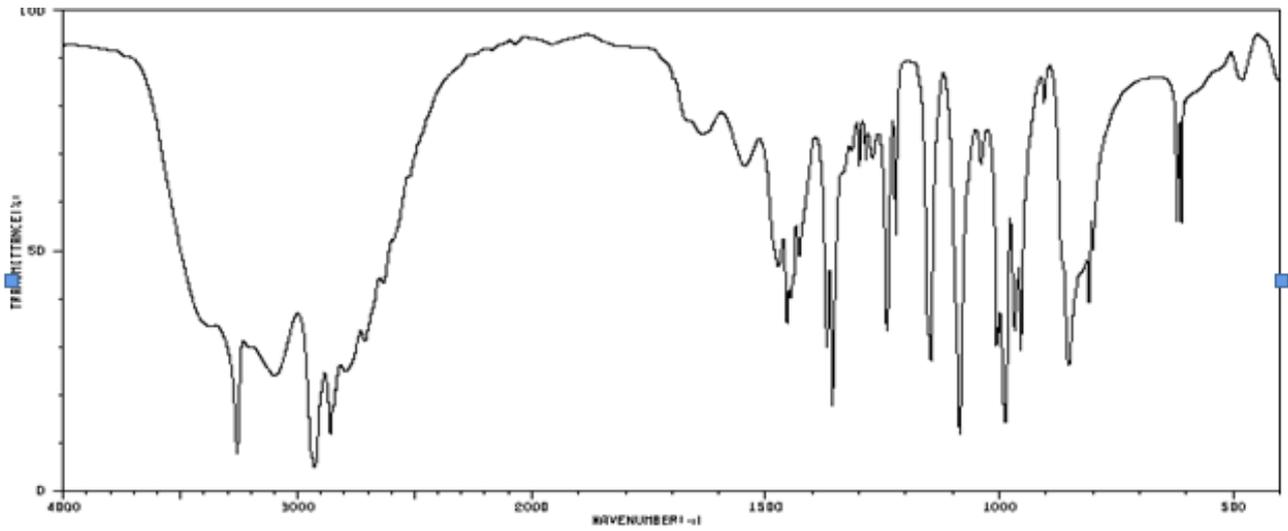
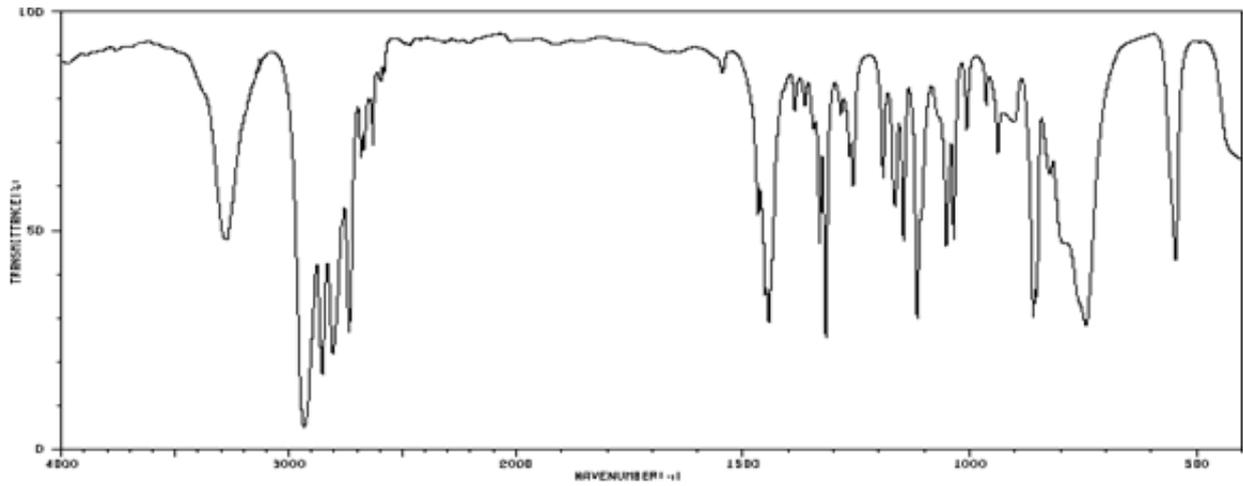
b)



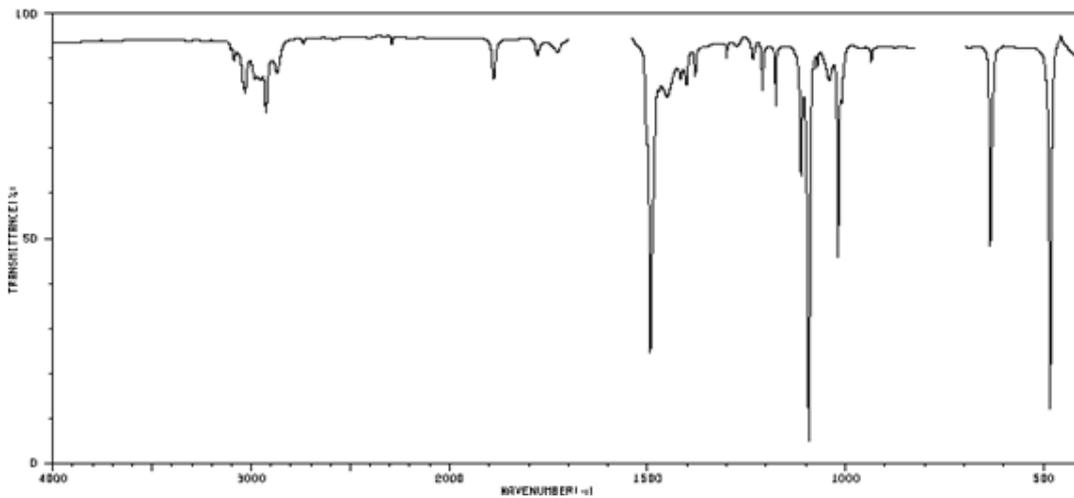
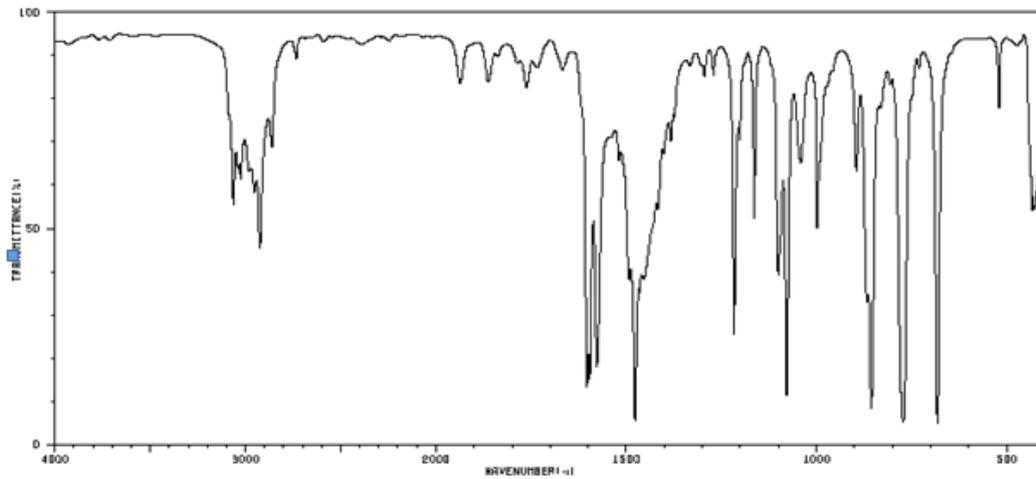
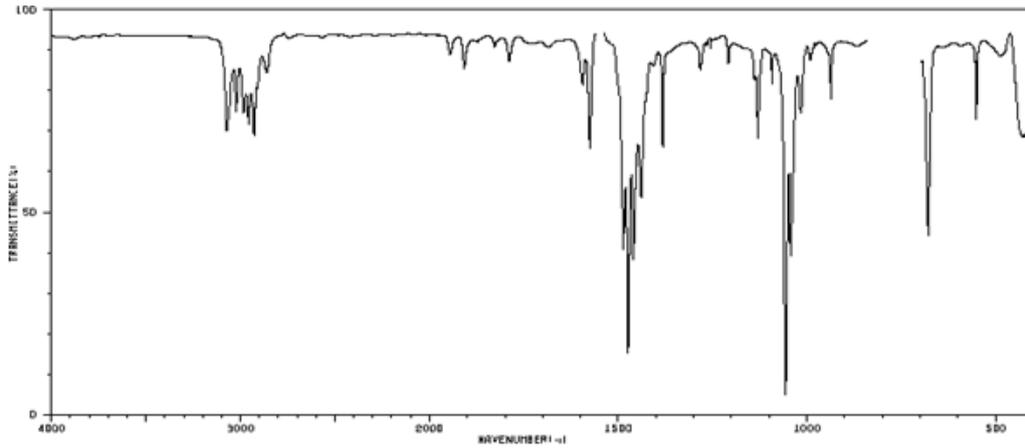
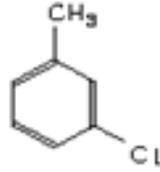
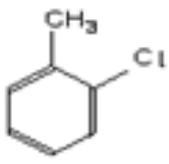
piperidina



4-piperidinol

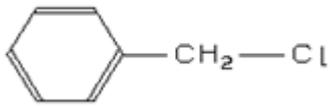


4- Explique as principais bandas de absorção no infravermelho para os espectros abaixo, justificando se é derivado o, m ou p. (Não esqueça de colocar a estrutura correta em cada espectro).

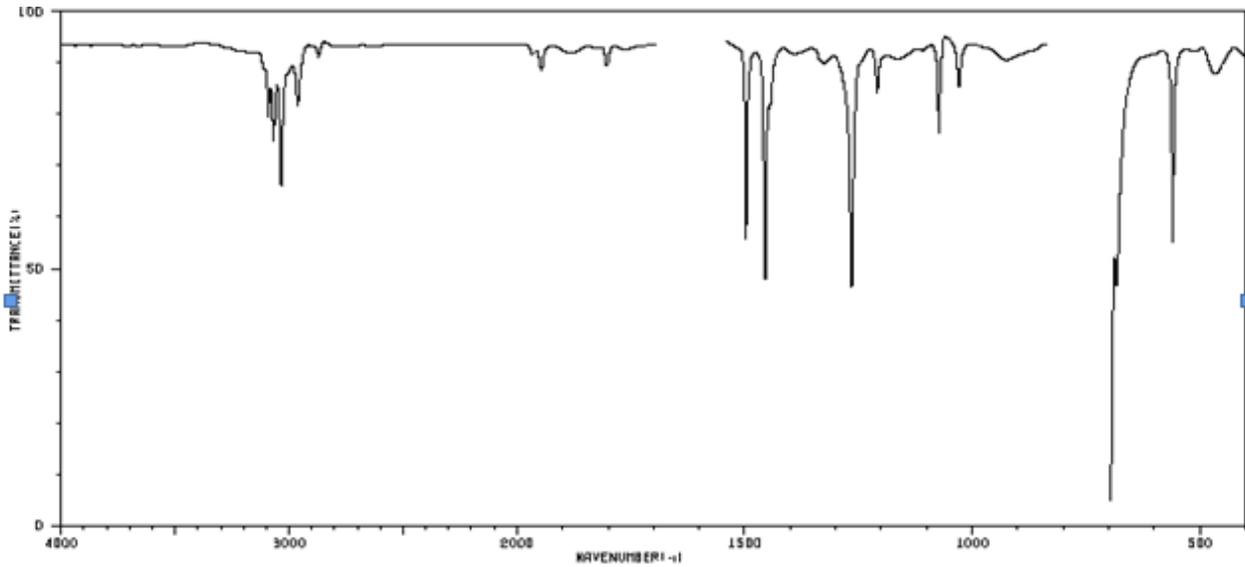


5- Analise as bandas de absorção de estiramento C=O e estiramento C-Cl nos compostos abaixo. Procure os valores para cada caso.

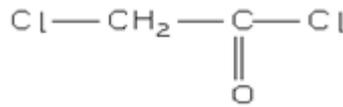
a)



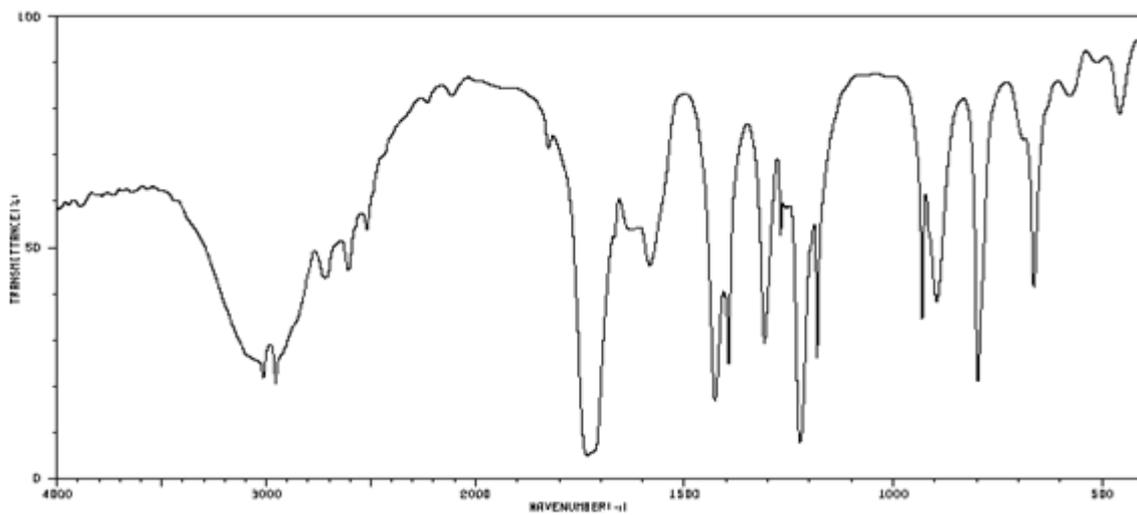
cloreto de benzila



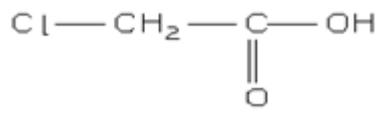
b)



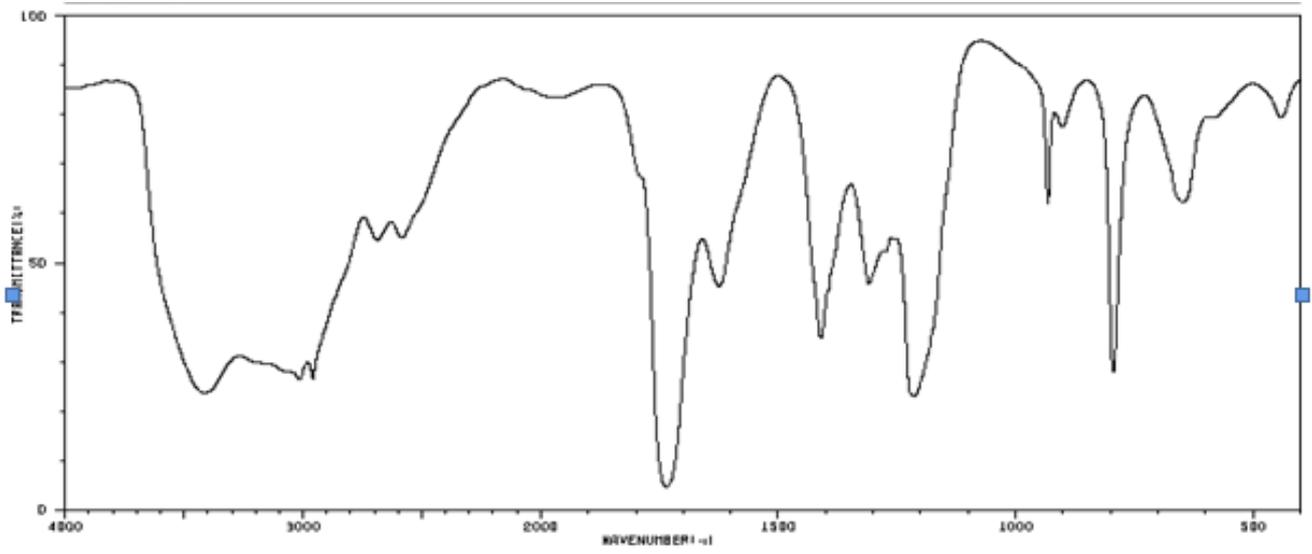
cloreto de cloroacetila



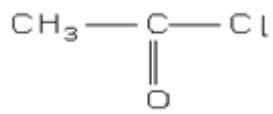
c)



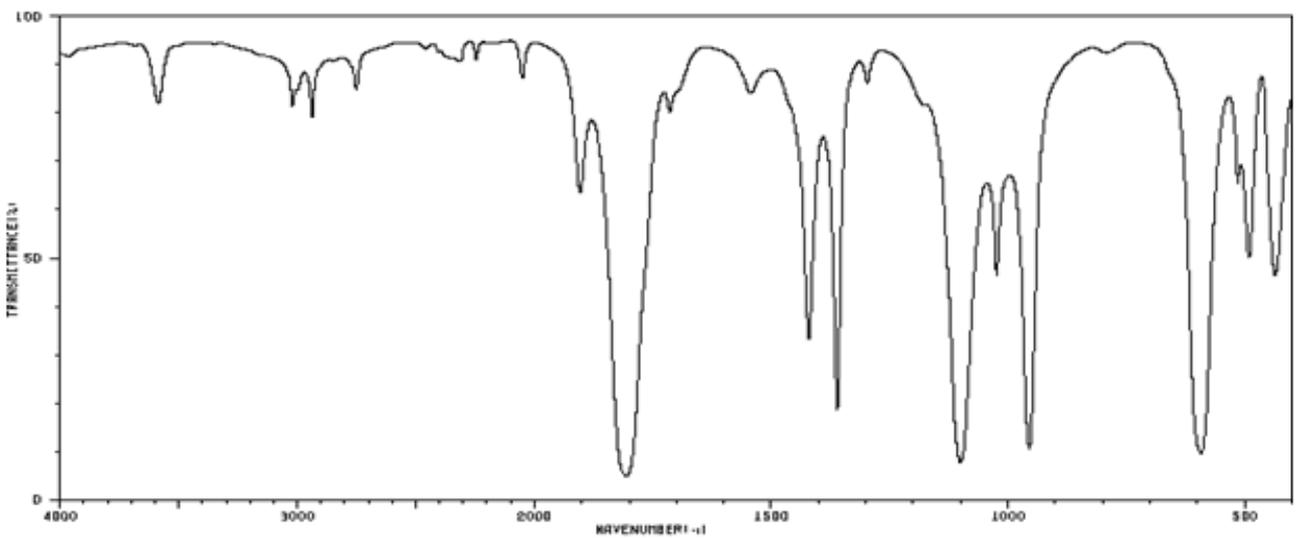
ácido cloroacético



d)

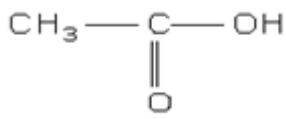


Cloreto de acetila

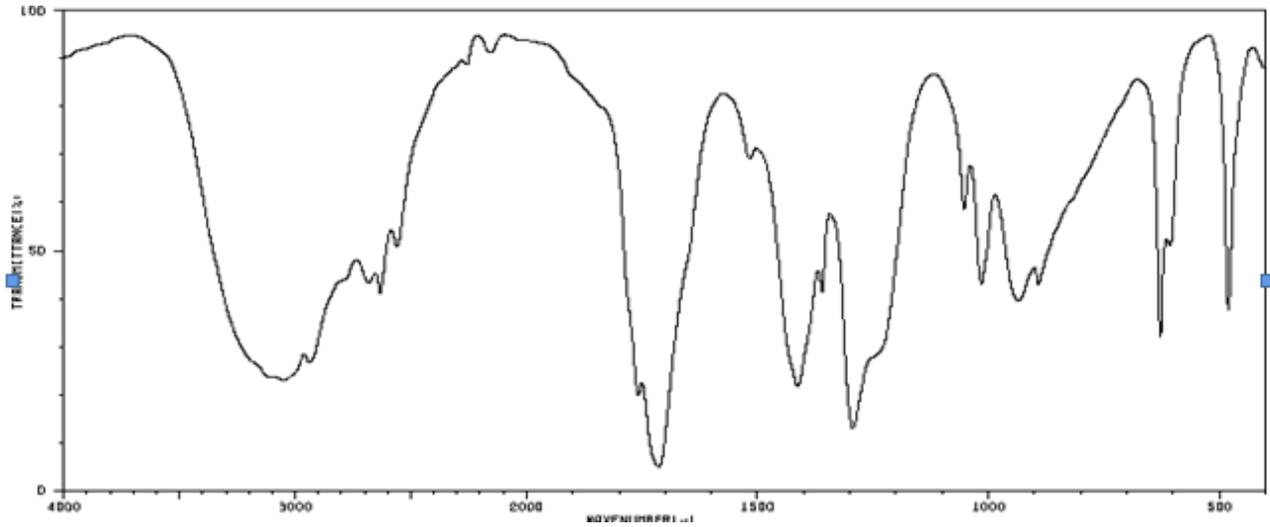


6 - Analise as bandas de absorção de estiramento C=O nos compostos abaixo. Procure os valores para cada caso.

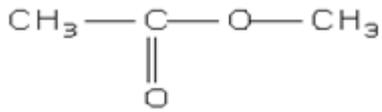
a)



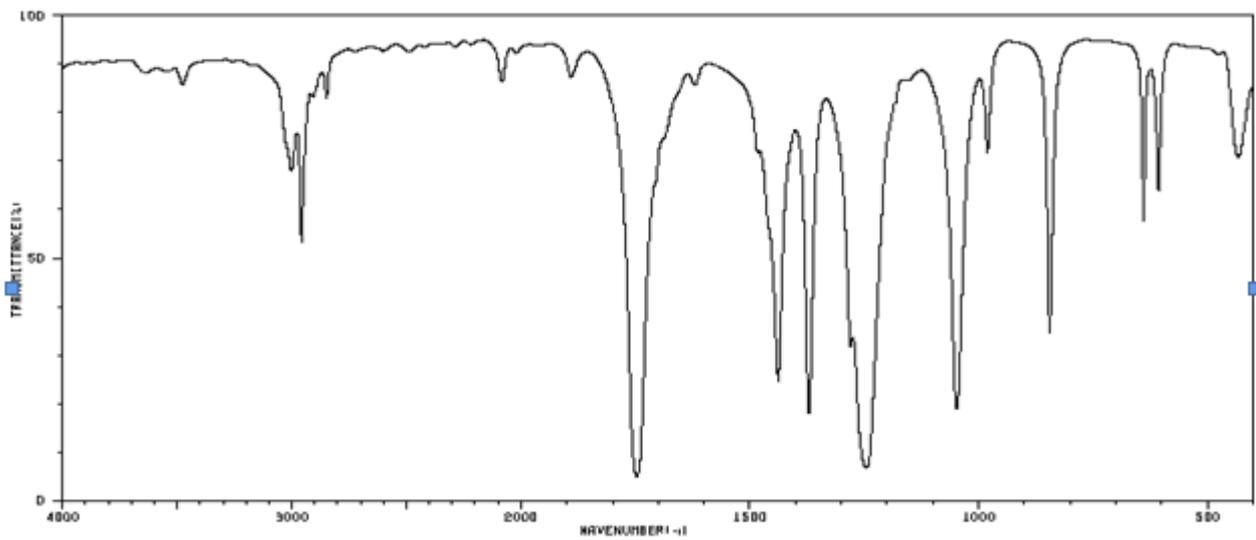
ácido acético



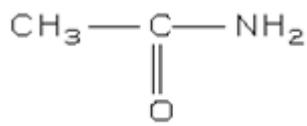
b)



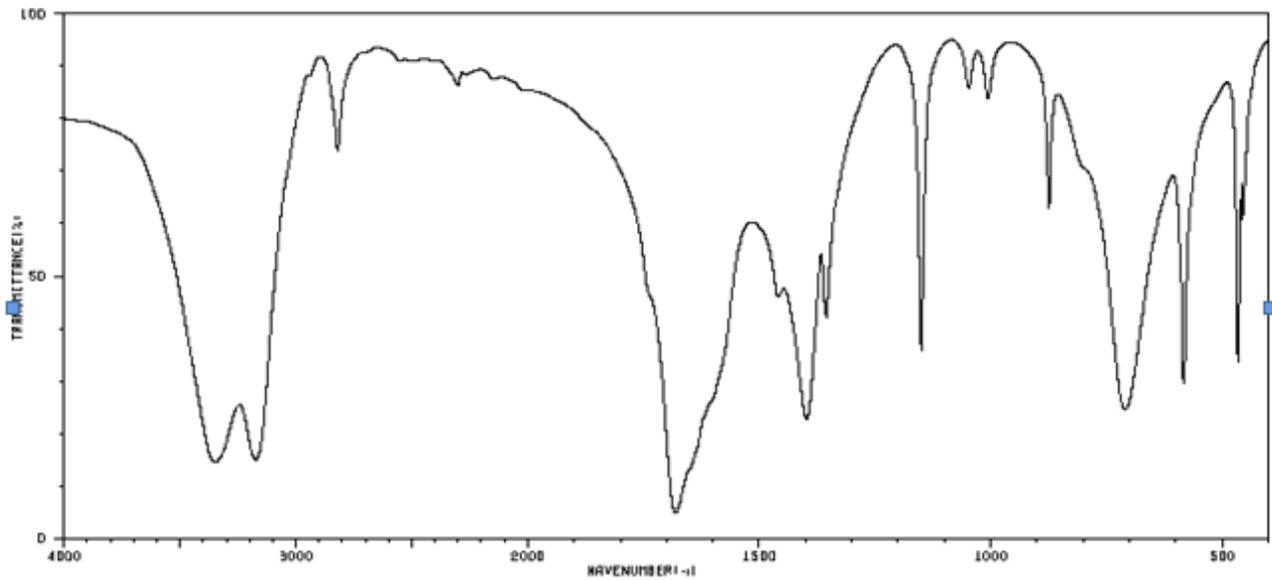
acetato de metila



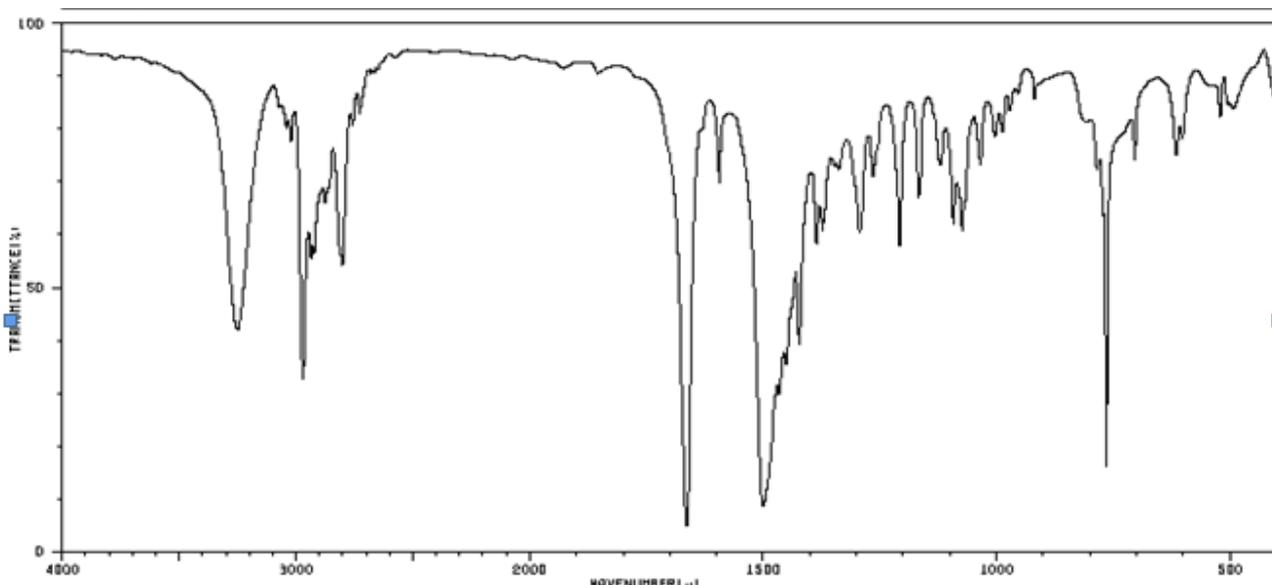
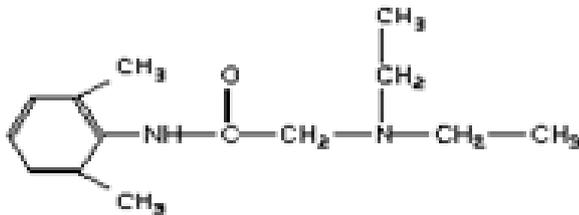
c)



acetamida

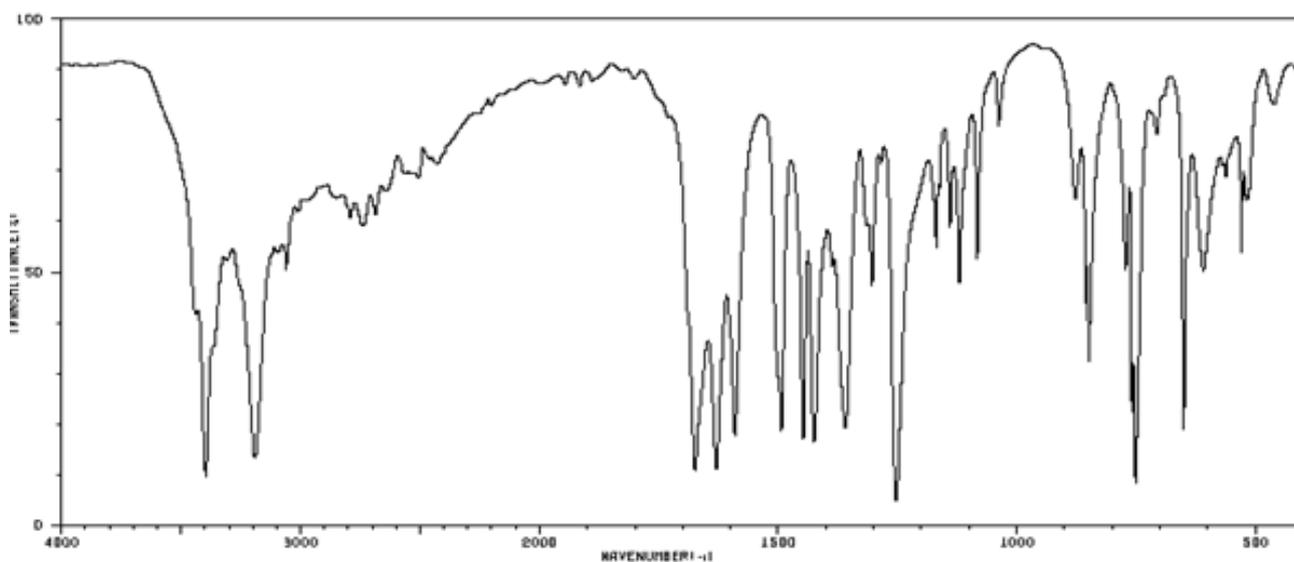
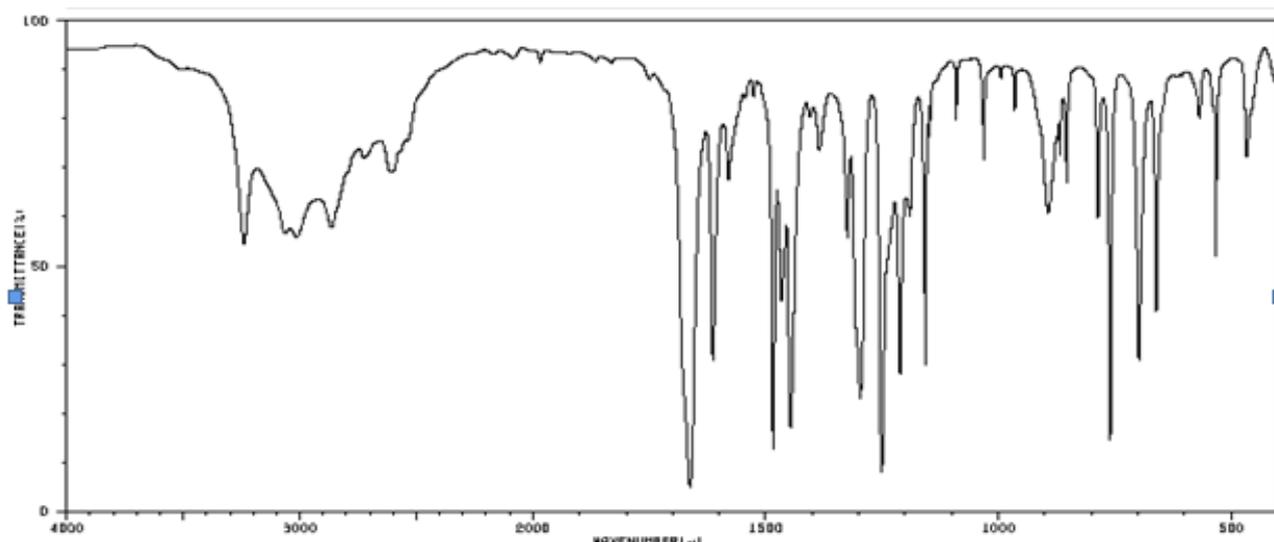
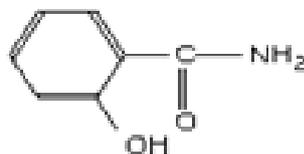
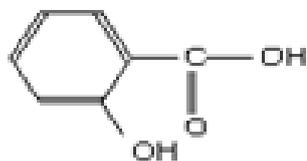


7 – Identifique as principais bandas de absorção no infravermelho da lidocaina. Observe se o espectro abaixo é de base livre ou cloridrato



8 - Relacione cada uma das estruturas químicas apresentadas abaixo com o espectro infravermelho correspondente. Justifique

a)



b)

