

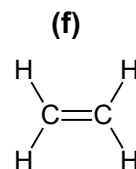
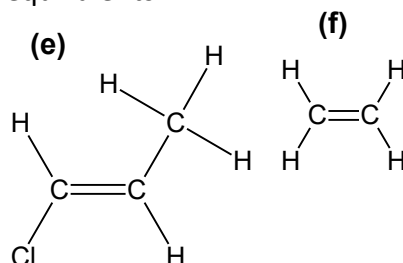
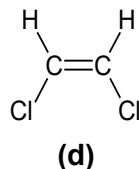
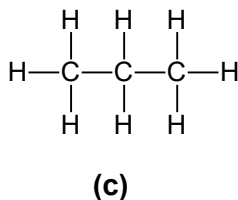
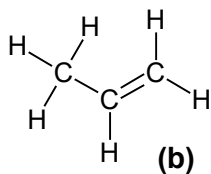
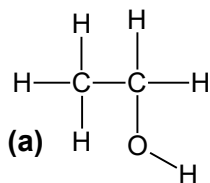


Analyse structurale de la matière par spectroscopie RMN

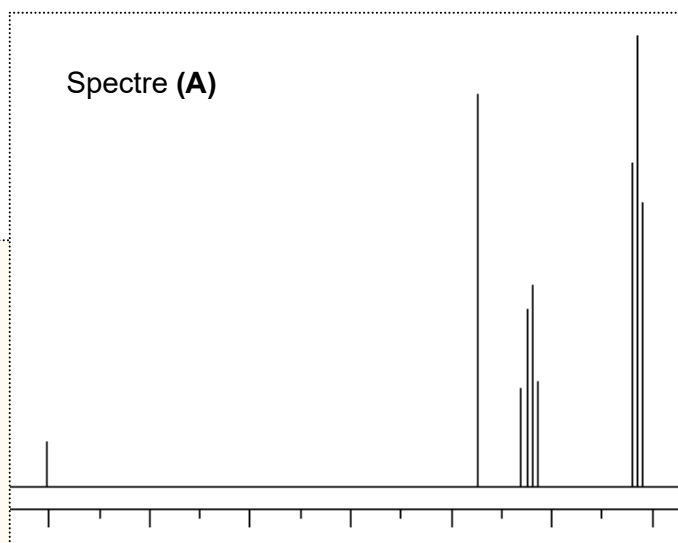
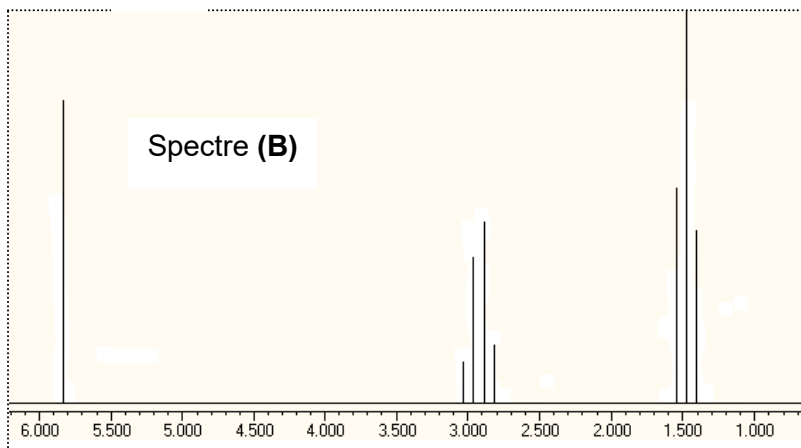
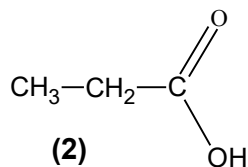
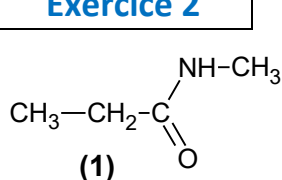
Exercices

Exercice 1

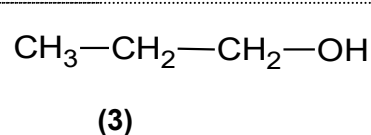
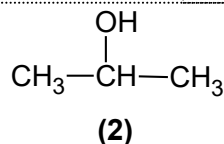
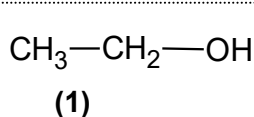
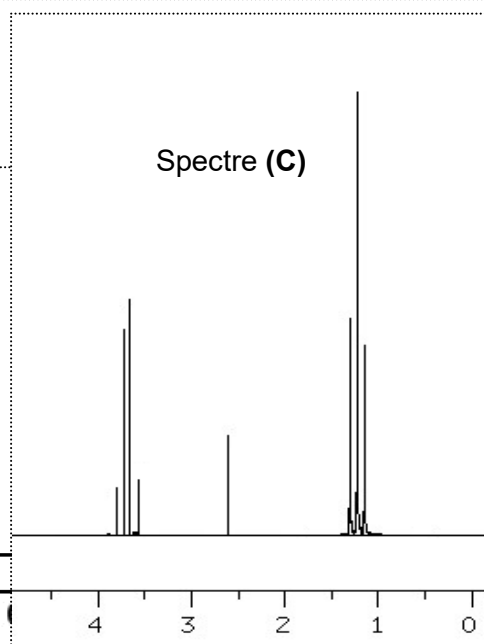
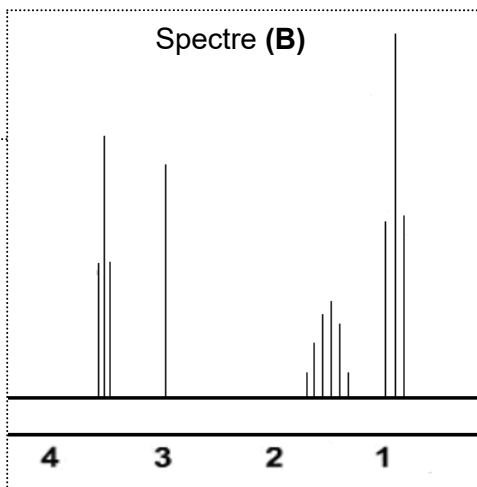
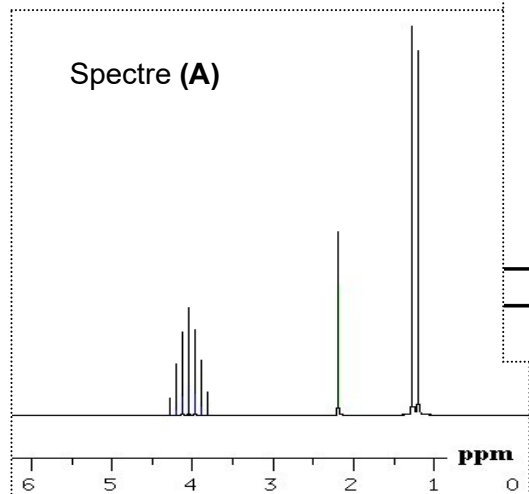
Pour chaque molécule ci-dessous, dénombrer les groupes de protons équivalents



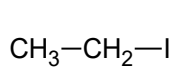
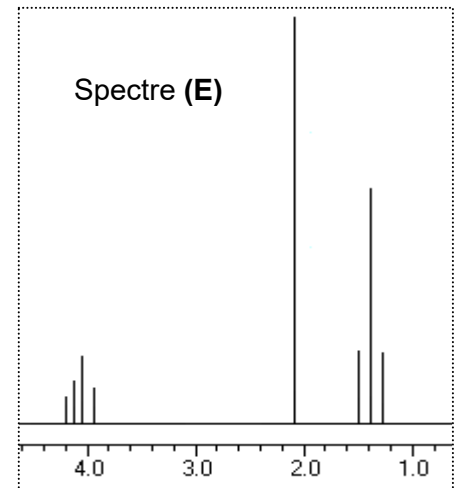
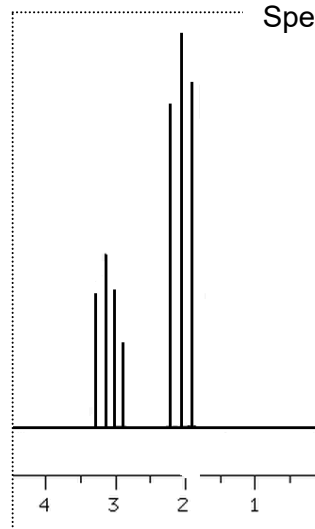
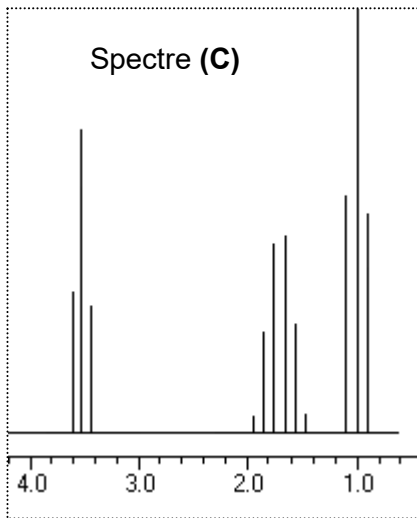
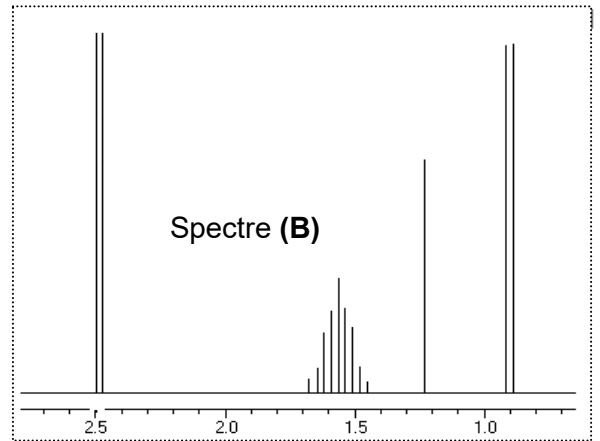
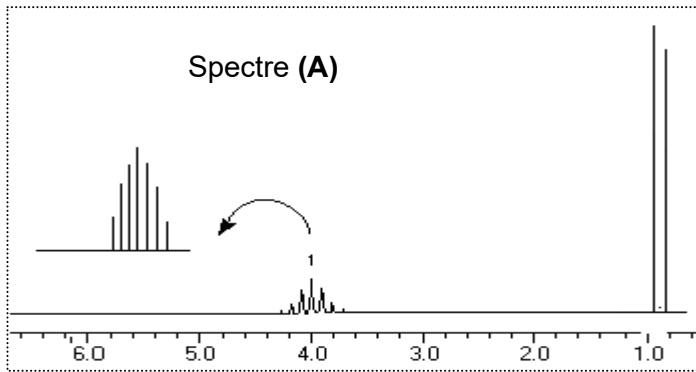
Exercice 2



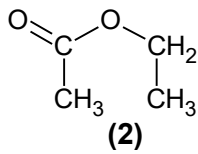
Exercice 3



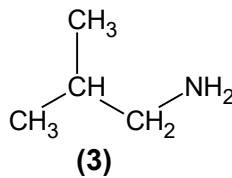
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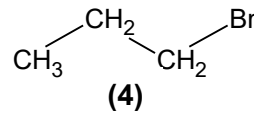
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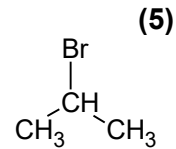
(2)



(3)



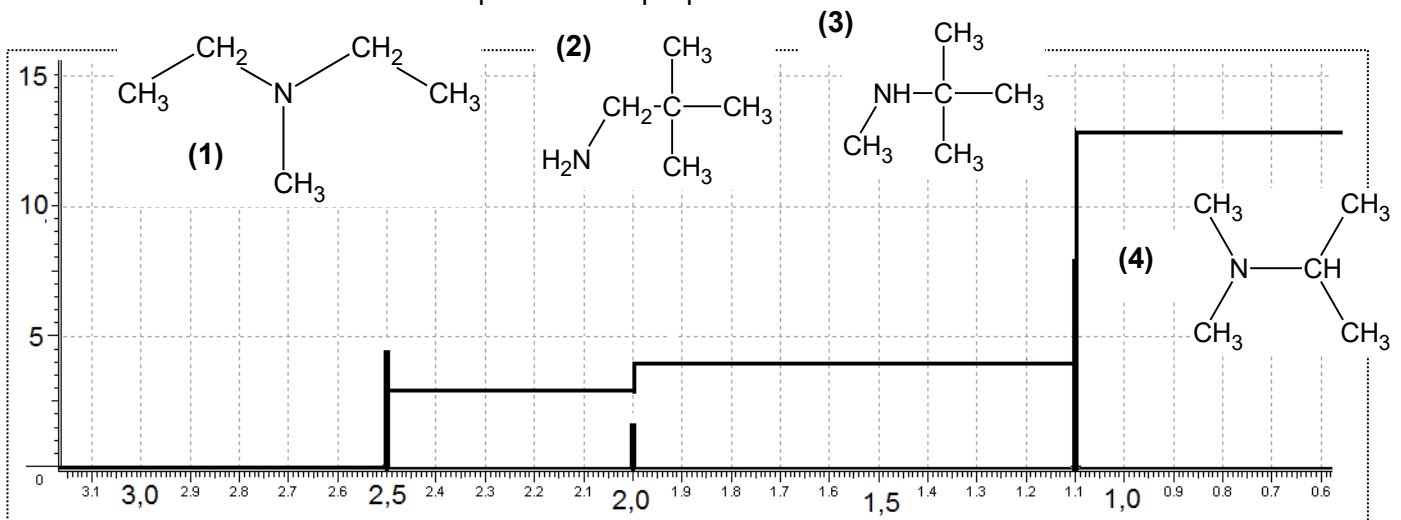
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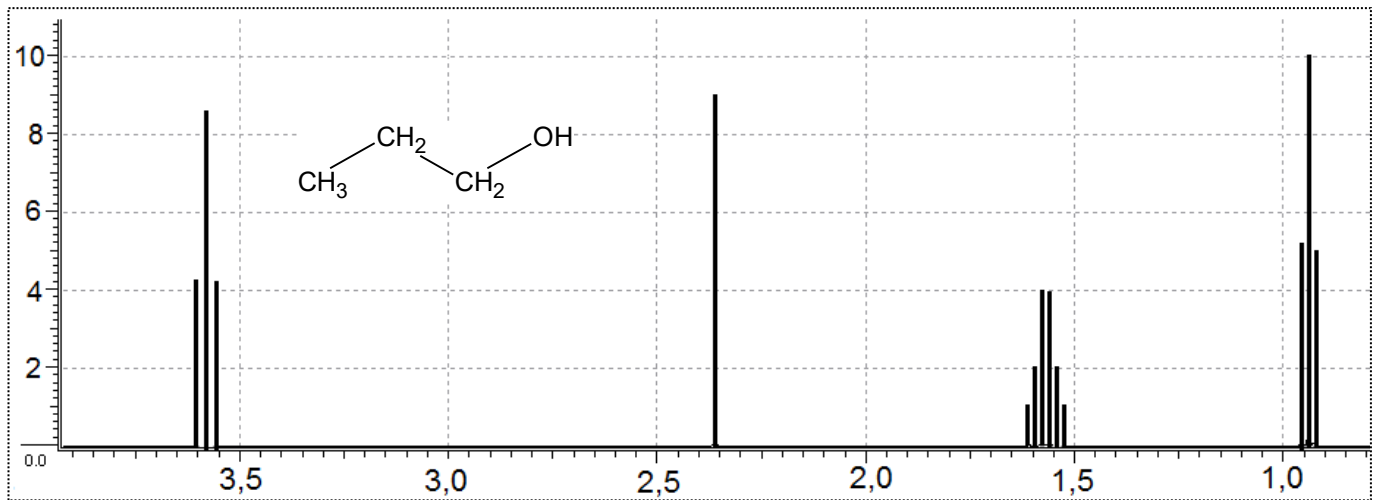
(5)

Exercice 5

Pour le spectre suivant, retrouver le nombre de protons équivalents associés à chaque signal, puis en déduire la formule de la molécule parmi celles proposées



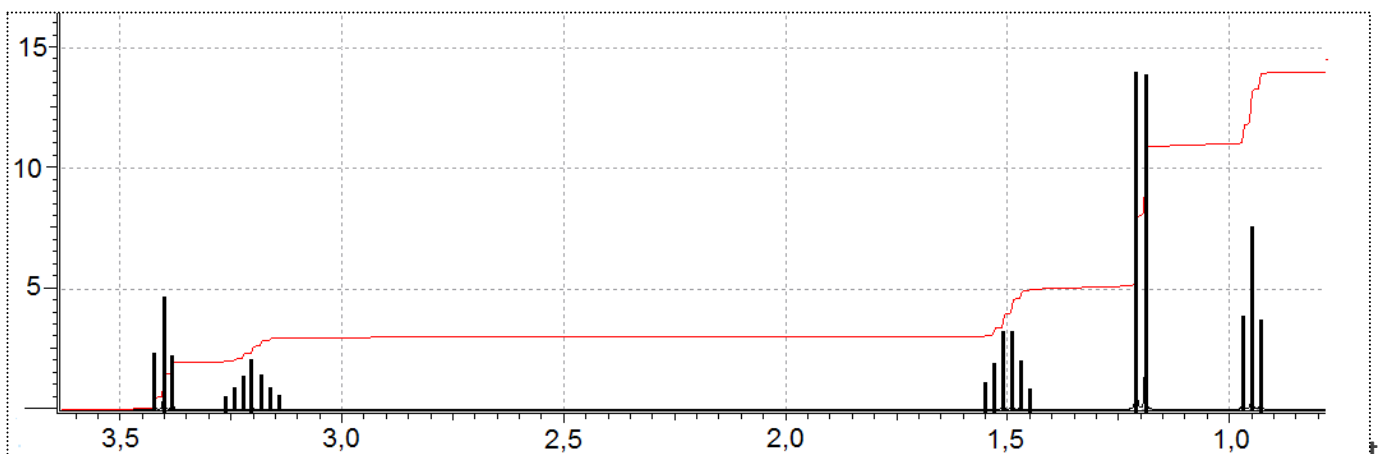
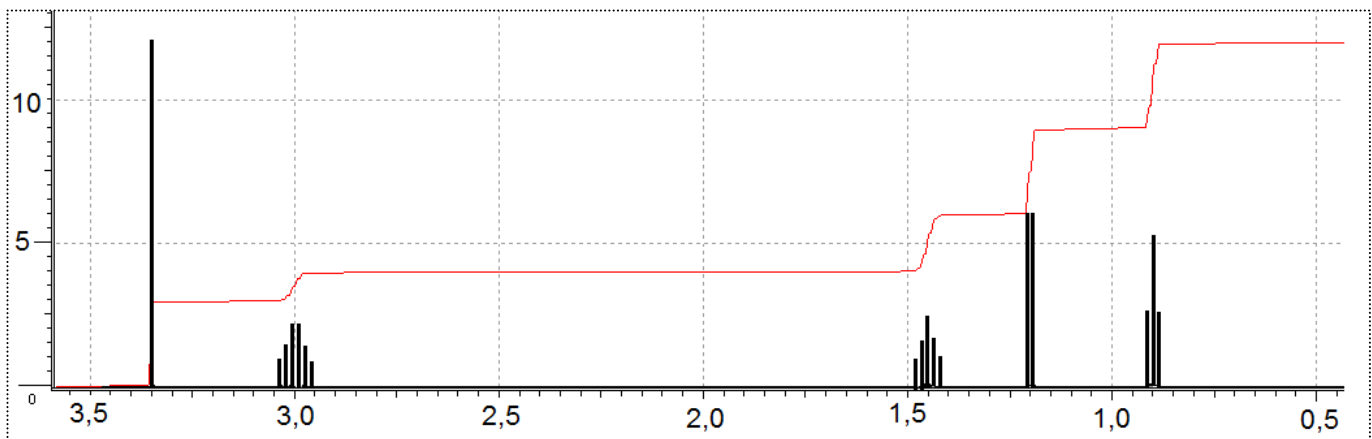
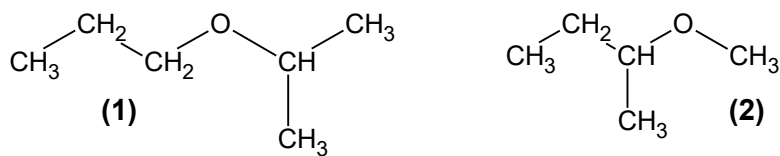
Exercice 6



Associer à chaque groupe de protons équivalents, son signal ; dessiner sur le spectre la courbe d'intégration

Exercice 7

Associer à chaque groupe de protons équivalents, son signal



Exercice 8

