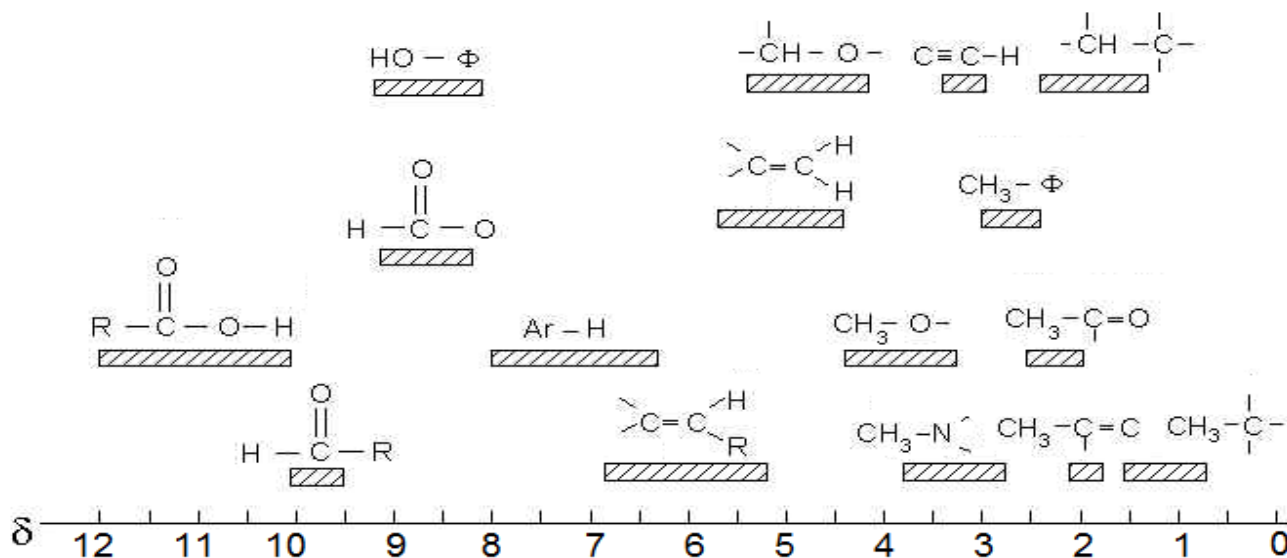


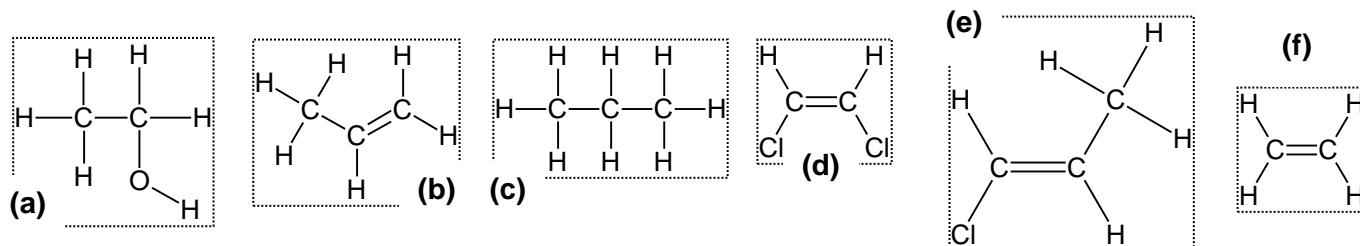
EX 03

Les spectres RMN

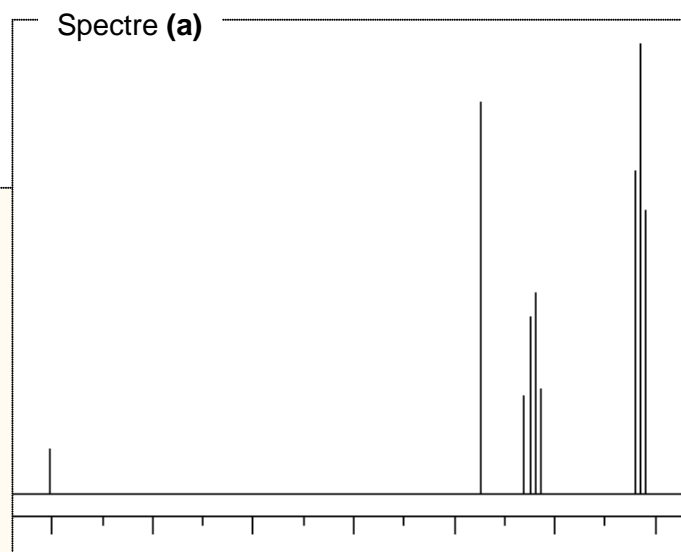
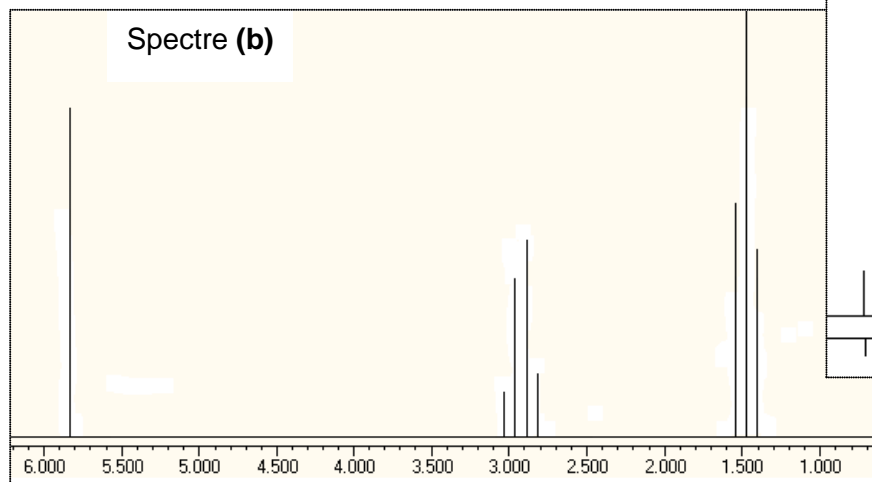
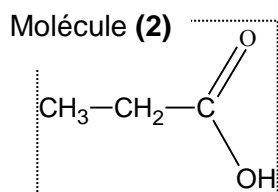
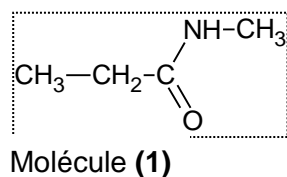


EX1

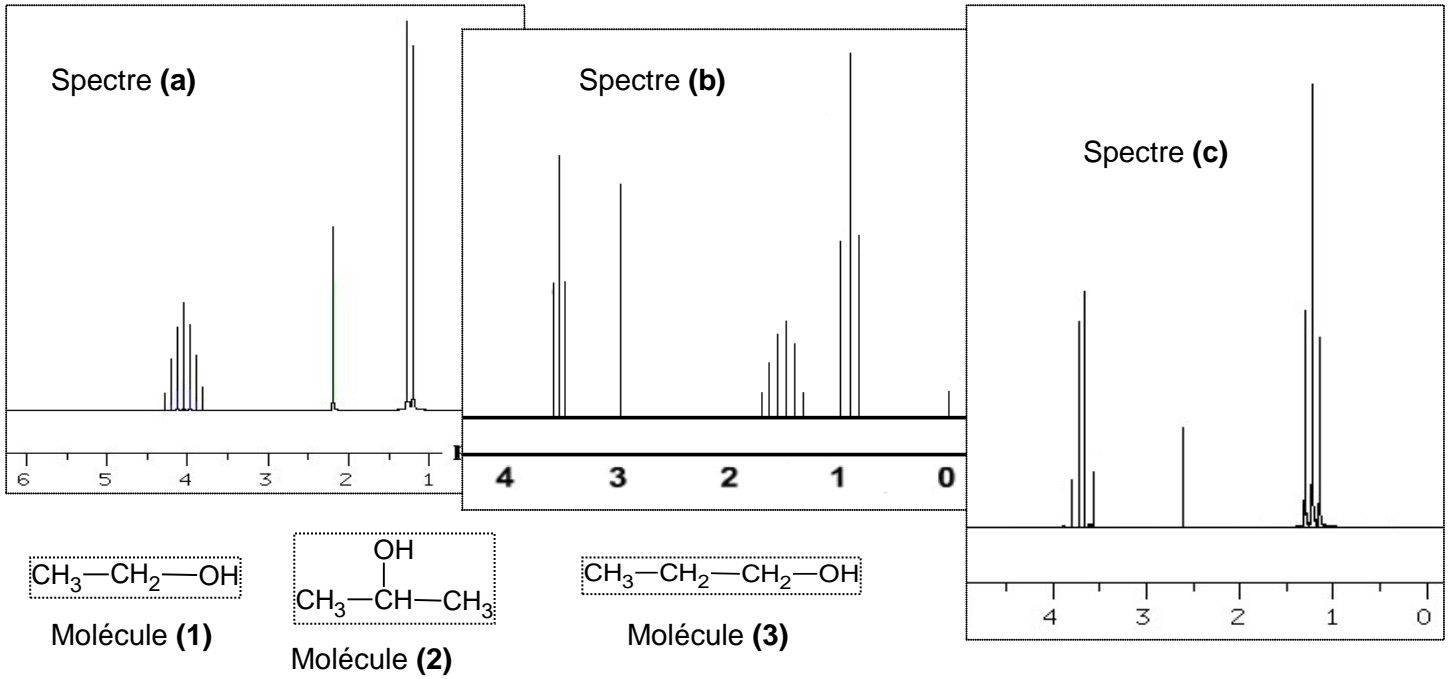
Pour chaque molécule ci-dessous, dénombrer les groupes de protons équivalents



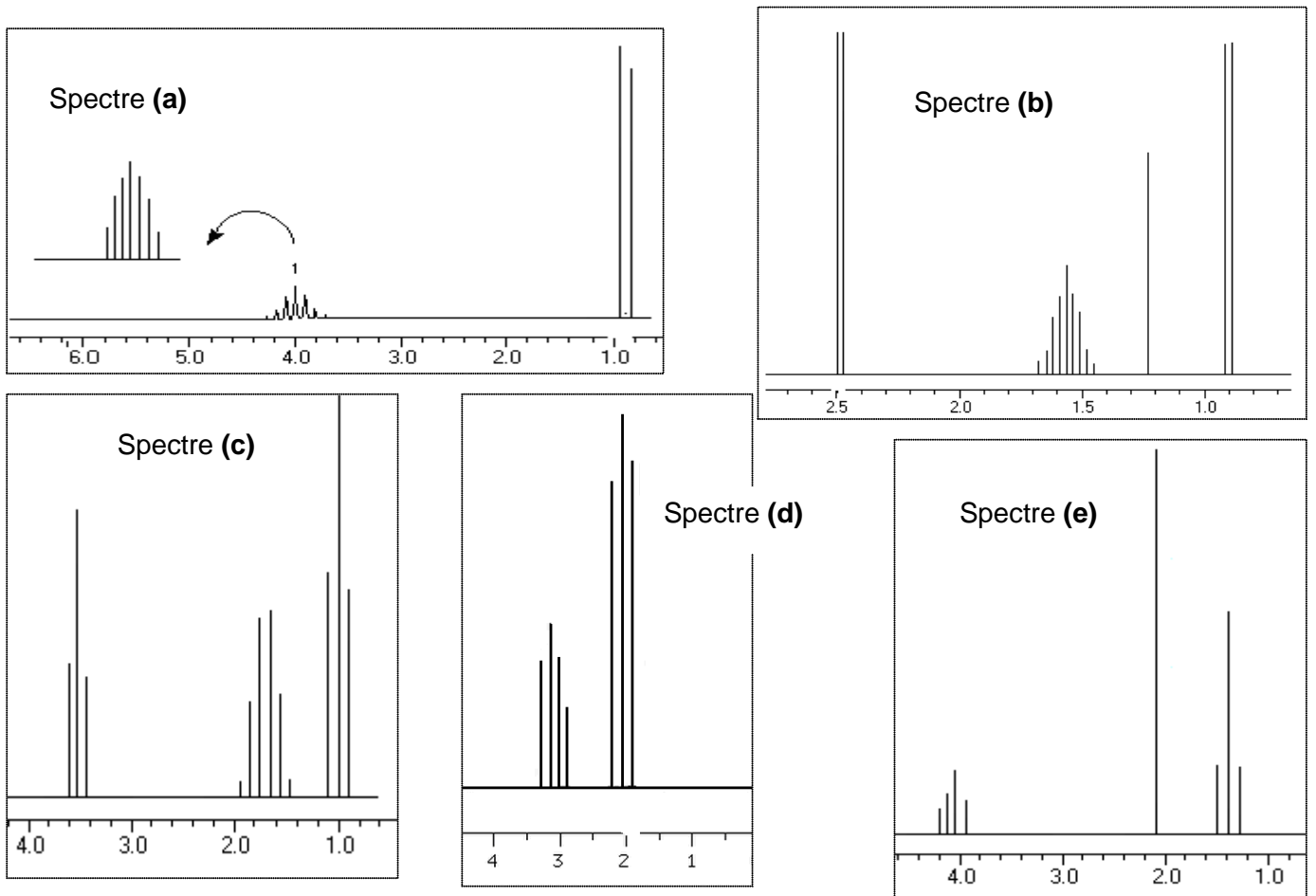
EX2



EX3

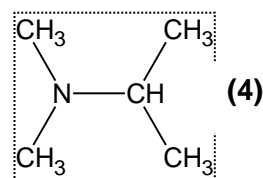
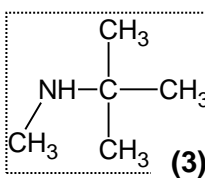
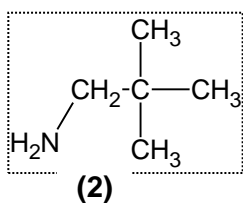
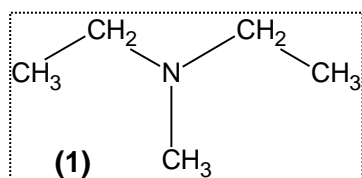
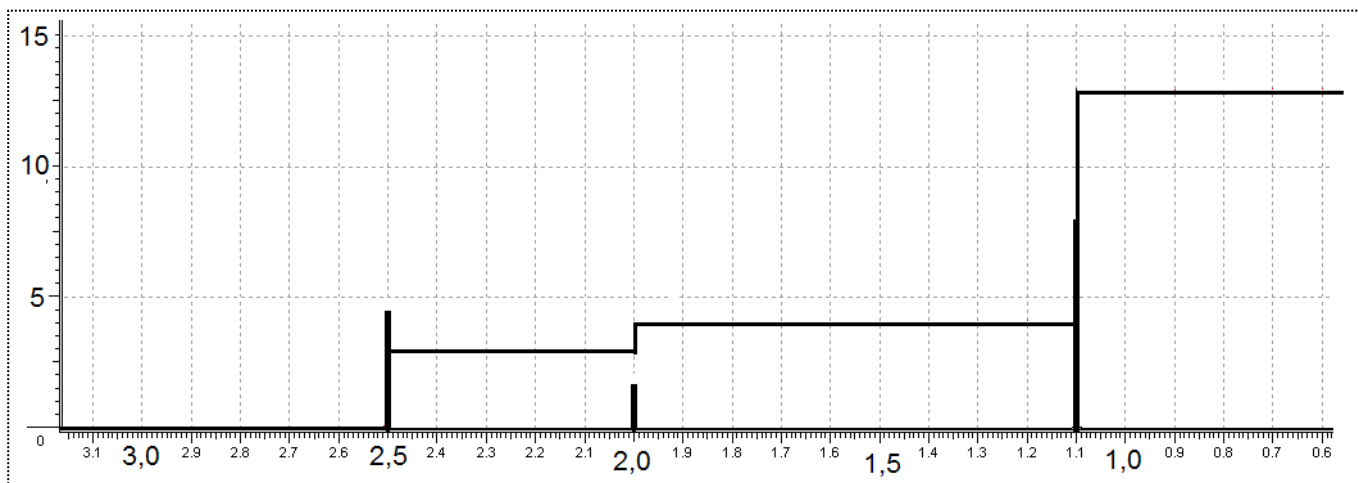


EX4

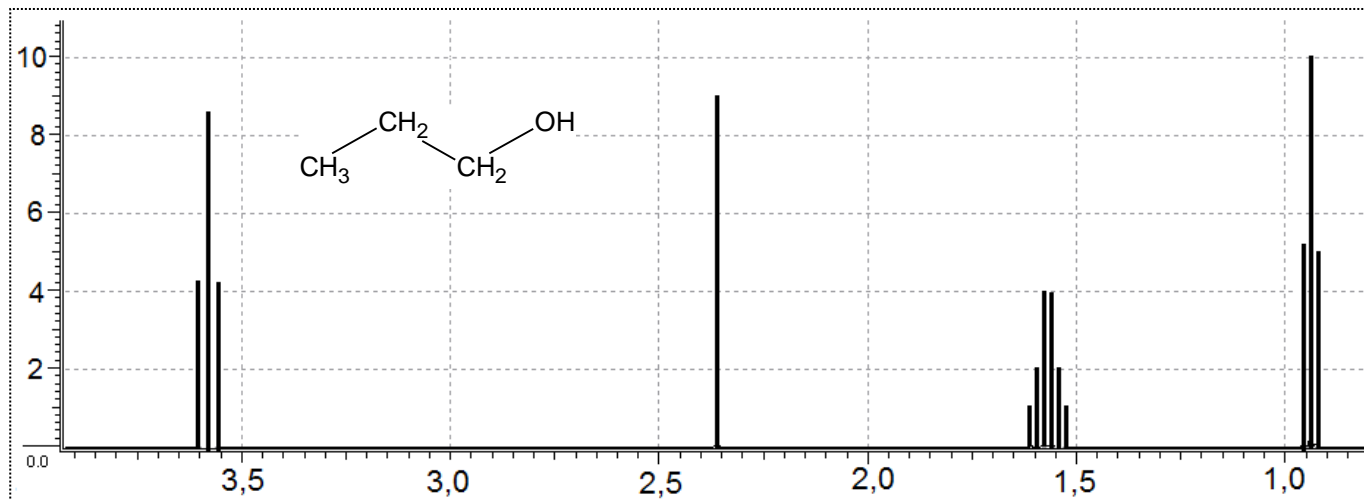


EX5

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



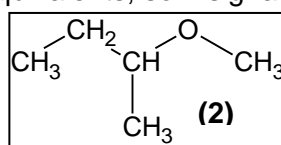
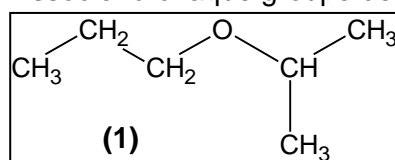
EX6

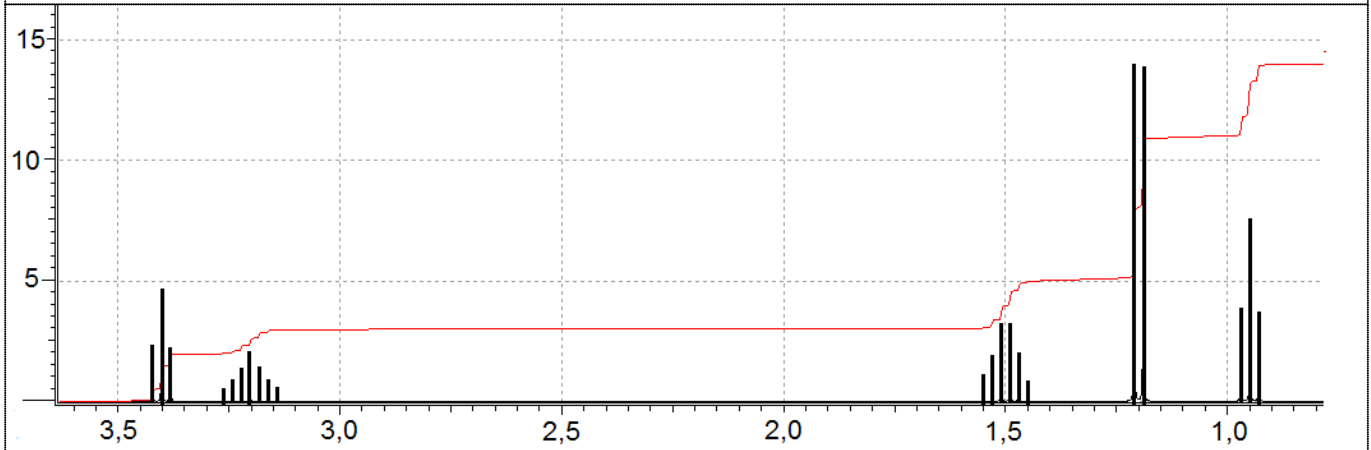
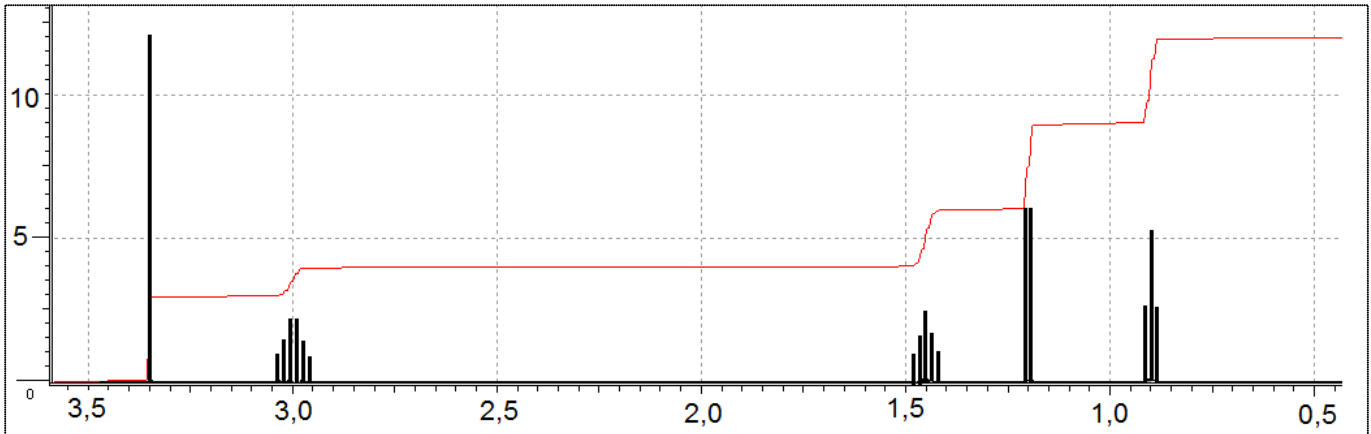


Associer à chaque groupe de protons équivalents, son signal ; dessiner sur le spectre la courbe d'intégration

EX7

Associer à chaque groupe de protons équivalents, son signal





EX8

