

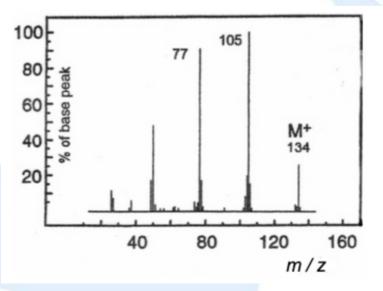
## HL Spectroscopic identification of organic compounds: Question 12

Identify **Compound L** from the data (a - d) given and explain how you arrived at your answer.

## (a) Elemental analysis of Compound L

Element	Percentage by mass
Carbon	80.56
Hydrogen	7.52
Oxygen	11.92

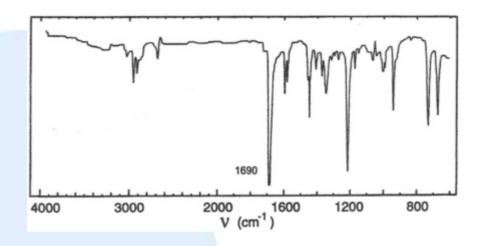
(b) Mass spectrum of Compound L



© Dr Geoffrey Neuss, InThinking http://www.thinkib.net/chemistry



(c) Infrared spectrum of Compound L



(d) <sup>1</sup>H NMR spectrum of Compound L

