

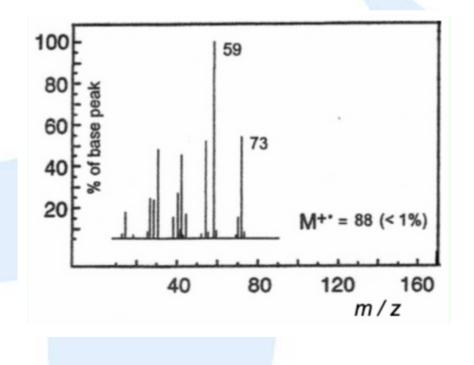
HL Spectroscopic identification of organic compounds: Question 13

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

(a) Elemental analysis of Compound M

Element	Percentage by mass
Carbon	68.11
Hydrogen	13.74
Oxygen	18.15

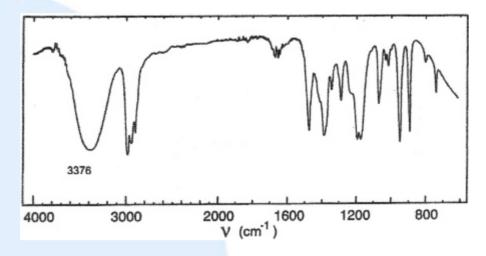
(b) Mass spectrum of Compound M



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(c) Infrared spectrum of Compound M



(d) ¹H NMR spectrum of Compound M

