

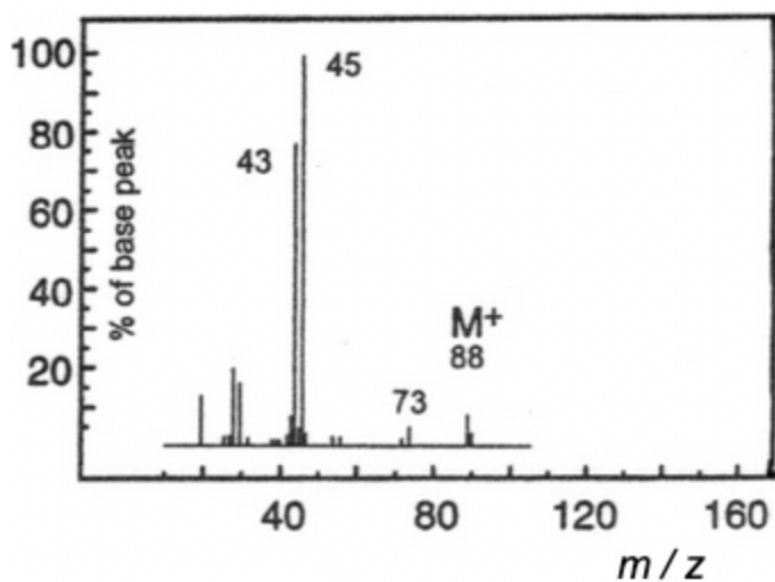
HL Spectroscopic identification of organic compounds: Question 14

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

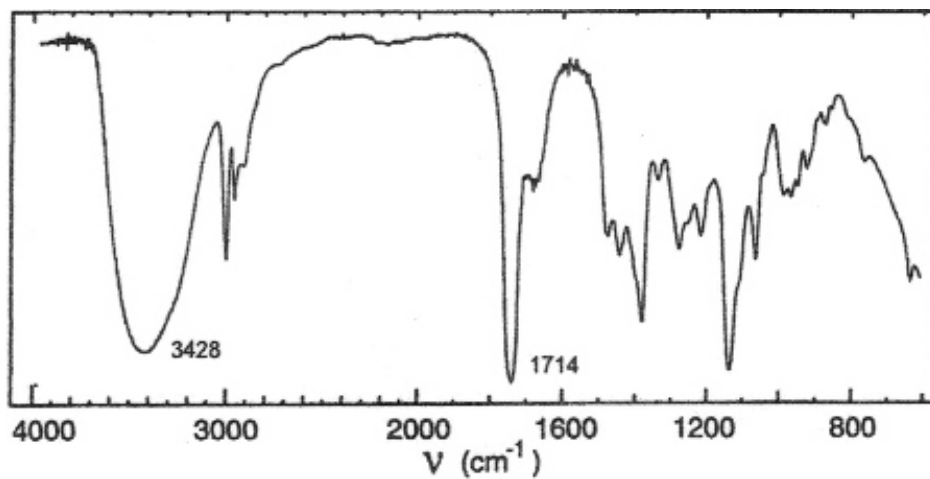
(a) Elemental analysis of **Compound N**.

Element	Percentage by mass
Carbon	54.52
Hydrogen	9.17
Oxygen	36.31

(b) Mass spectrum of **Compound N**



(c) Infrared spectrum of **Compound N**



(d) ^1H NMR spectrum of **Compound N**

