

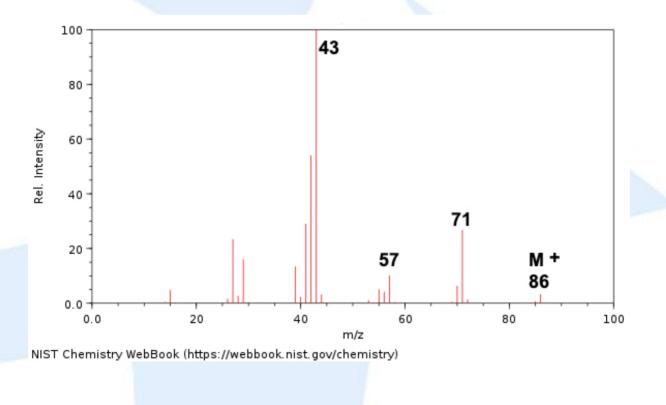
SL & HL Spectroscopic identification of organic compounds: Question 7

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

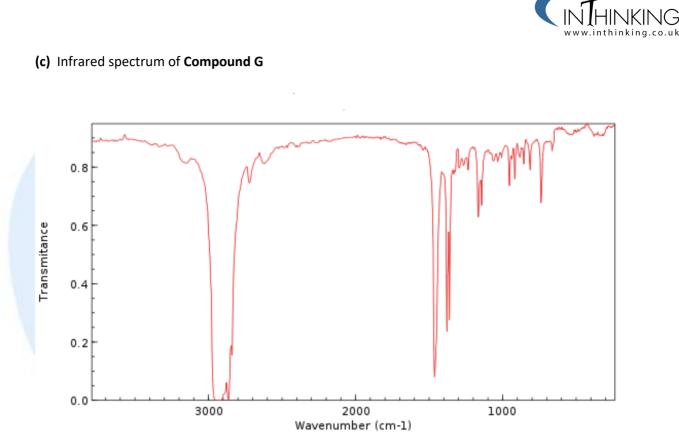
(a) Elemental analysis of Compound G.

Element	Percentage by mass
Carbon	83.60
Hydrogen	16.40

(b) Mass spectrum of Compound G



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NIST Chemistry WebBook (https://webbook.nist.gov/chemistry)

(d) Information from ¹H NMR spectrum of Compound G

Position of signals / δ ppm	Integration traces
Five signals all between 0.9 and 1.5	1:2:2:3:6

G