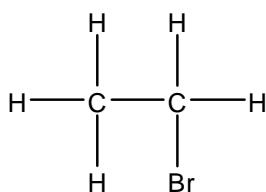
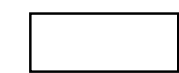
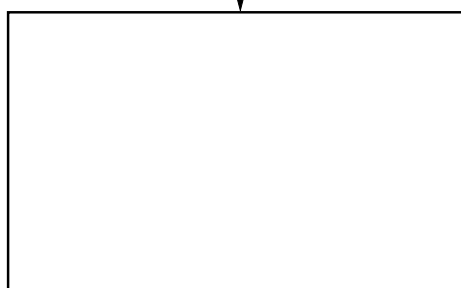
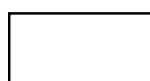
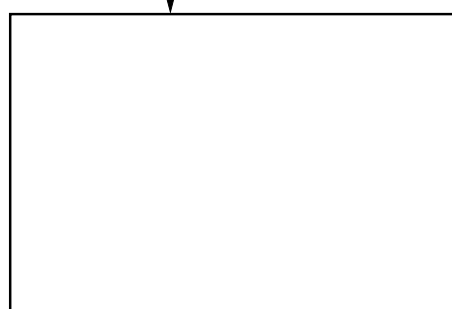
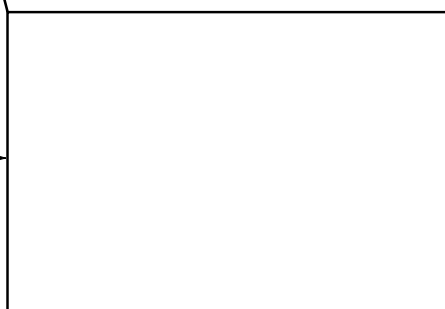
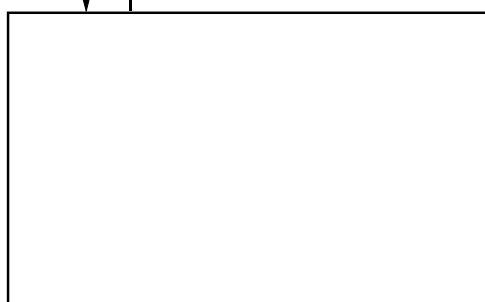
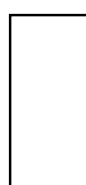


Question One- Complete the reaction scheme



Compound A

Compound F $\text{C}_2\text{H}_7\text{N}$ Compound B $\text{C}_2\text{H}_6\text{O}$ Compound G $\text{C}_4\text{H}_9\text{ON}$ Compound C $\text{C}_2\text{H}_4\text{O}_2$ Compound E $\text{C}_2\text{H}_3\text{OCl}$ Compound D $\text{C}_2\text{H}_4\text{O}$ 

Question Two

Complete the table below, Compound A as an example

	Name	MS m/z	Isotope peak?	Number of ¹³ C peaks and region	IR Functional group and peaks
A	1-bromo ethane	108	1 : 1 110	2 carbon environments ~40 – 45 ppm ~10 – 15 ppm	C-H 3100 – 2800 cm ⁻¹
B					
C					
D					
E					
F					
G					