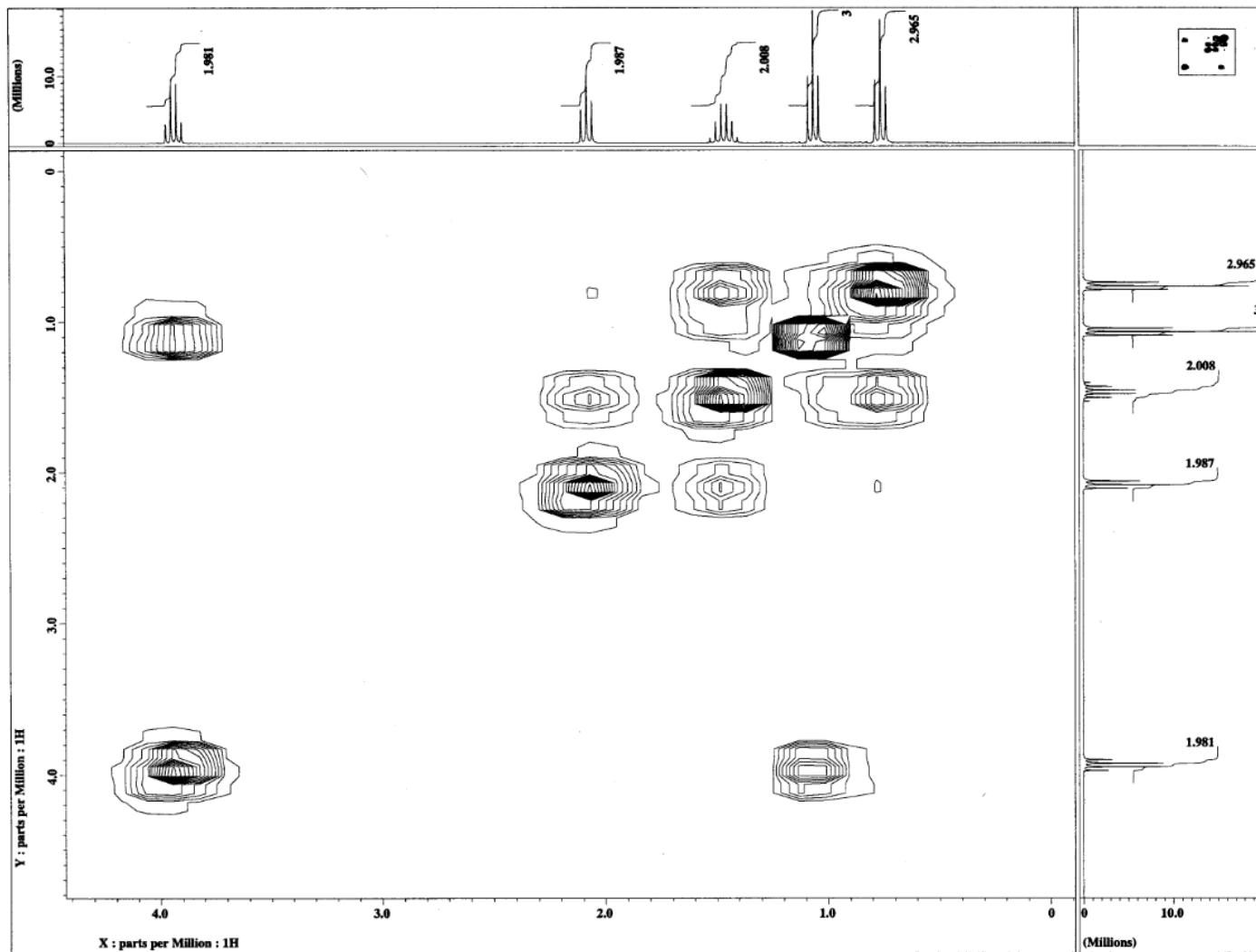


Determine the unknown.

You can use the rule of 13. Only determine the unsaturation number once you have identified the heteroatoms. For the COSY interpretation, only use the integration information in the reference spectrum! Provide a graphical analysis, all correlations and the connectivity.

M 116 g/mol

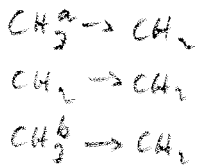
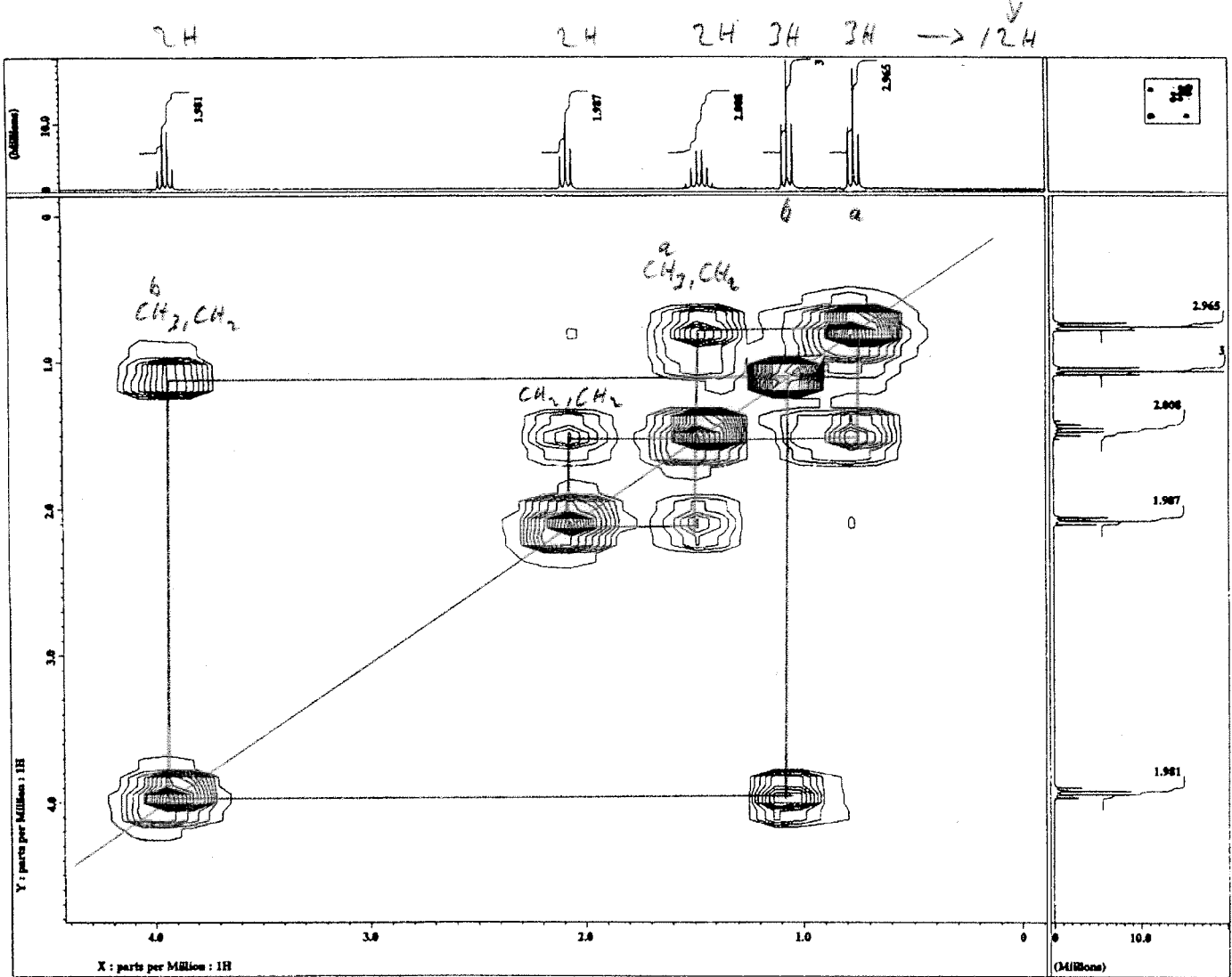


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$$\frac{116}{13} = 8 + \frac{12}{13} \Rightarrow C_8H_{20} \text{ or } C_6H_{12}O_2 \quad u = 6 + 1 - \frac{1}{2}(12 - 0) = 7 - 6 = 1 \Rightarrow \text{C}=\text{O}$$



1st connectivity: $CH_3^a - CH_2 - CH_2$
 2nd " : $CH_3^b - CH_2$

