

Supplementary Material

Organocatalytic γ -oxidation of α,β -unsaturated aldehydes

Mikołaj Chromiński, Maciej Giedyk, and Dorota Gryko*

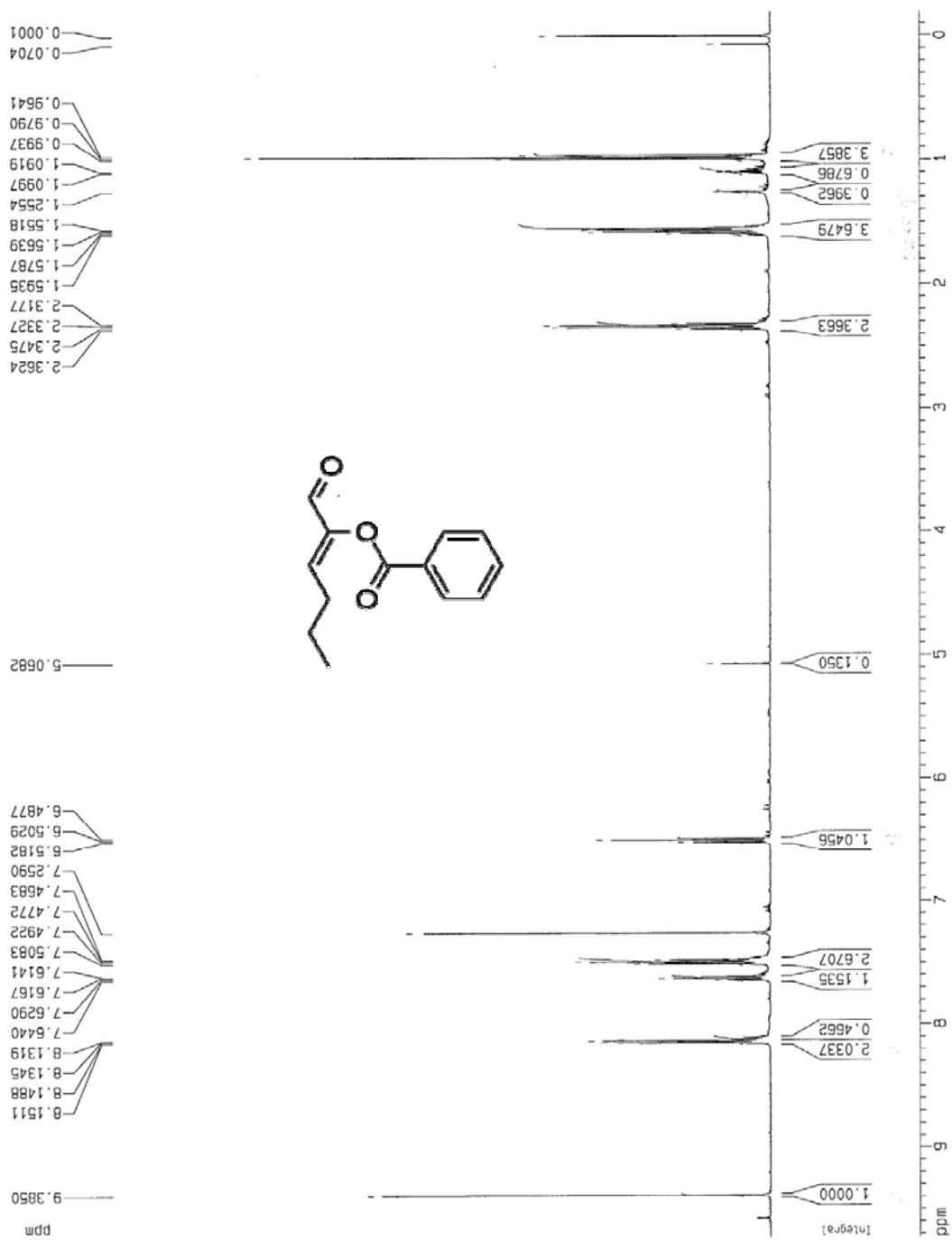
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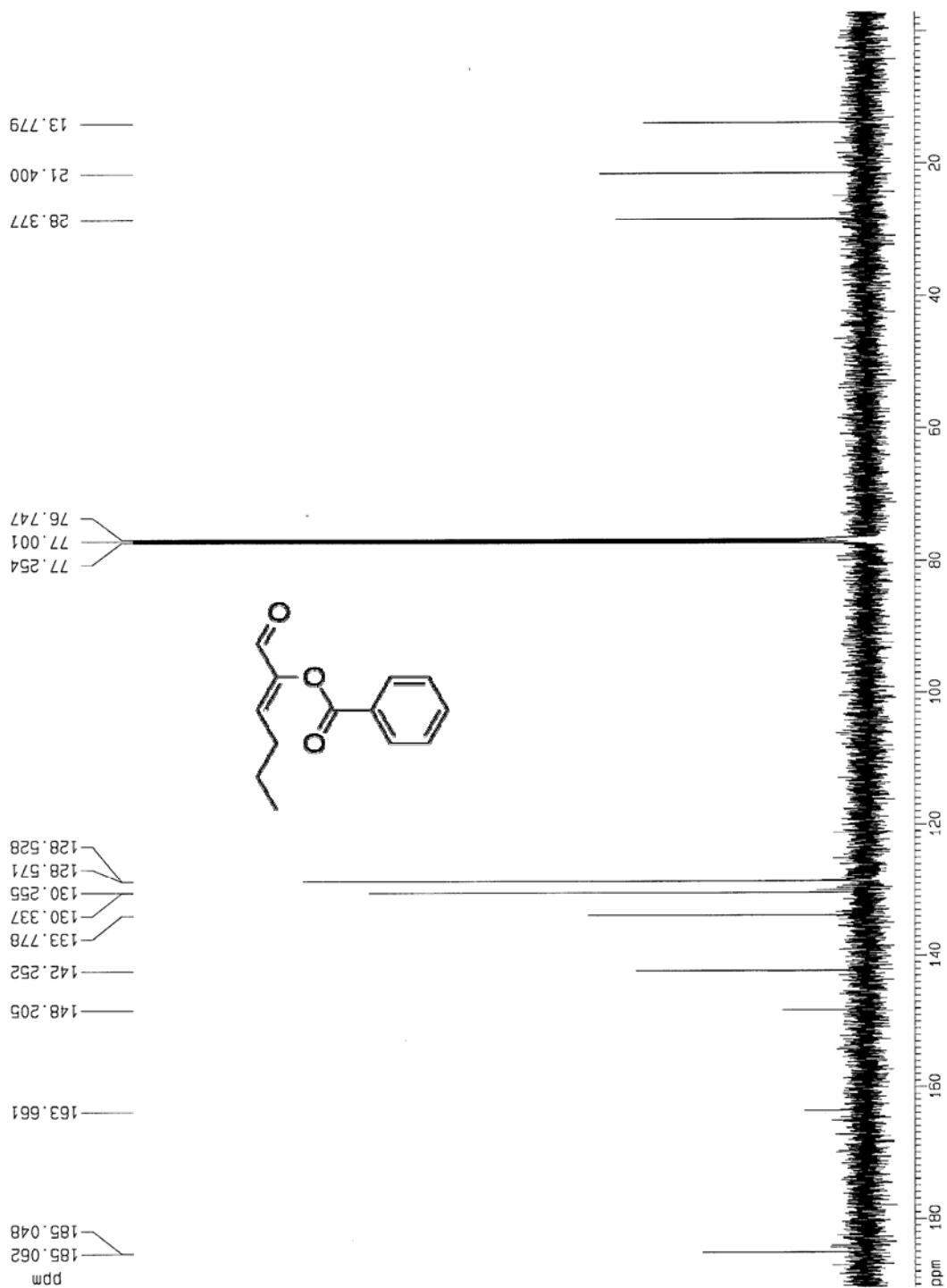
Table of Contents

1. <i>(Z)</i> -1-oxohex-2-en-2-yl benzoate 12	
¹ H NMR	S2
¹³ C NMR	S3
2. <i>(E)</i> -6-oxohex-4-en-3-yl benzoate 13	
¹ H NMR	S4
¹³ C NMR	S5
COSY	S6
HMBC	S7
HSQC	S8
3. <i>(E)</i> -6-hydroxyhex-4-en-3-yl benzoate 14	
¹ H NMR	S9
¹³ C NMR	S10
4. <i>(E)</i> -6-acetoxylhex-4-en-3-yl benzoate 15	
¹ H NMR	S11
¹³ C NMR	S12
5. <i>(4E,6E)</i> -8-ethoxy-8-oxoocta-4,6-dien-3-yl benzoate 17	
¹ H NMR	S13
¹³ C NMR	S14

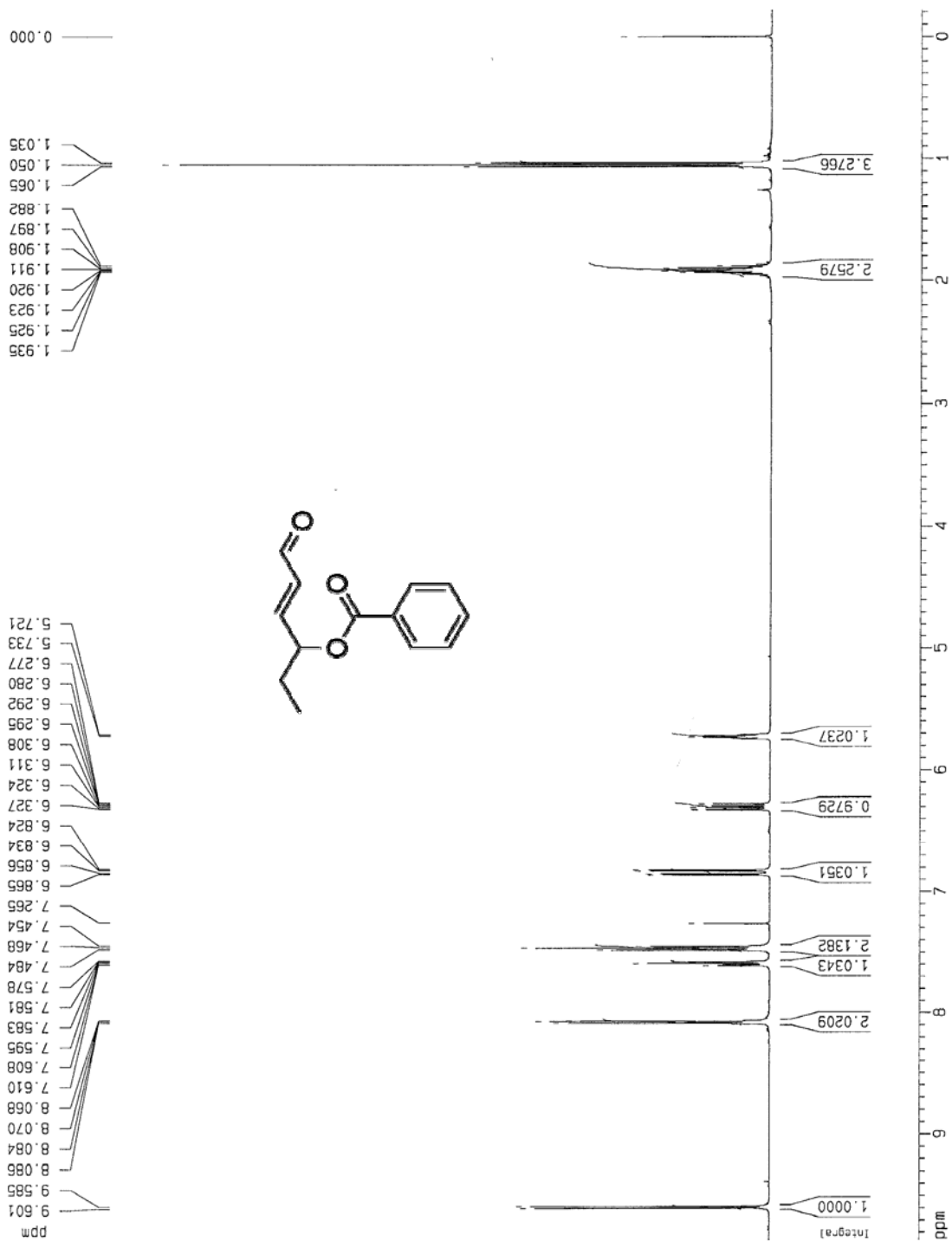
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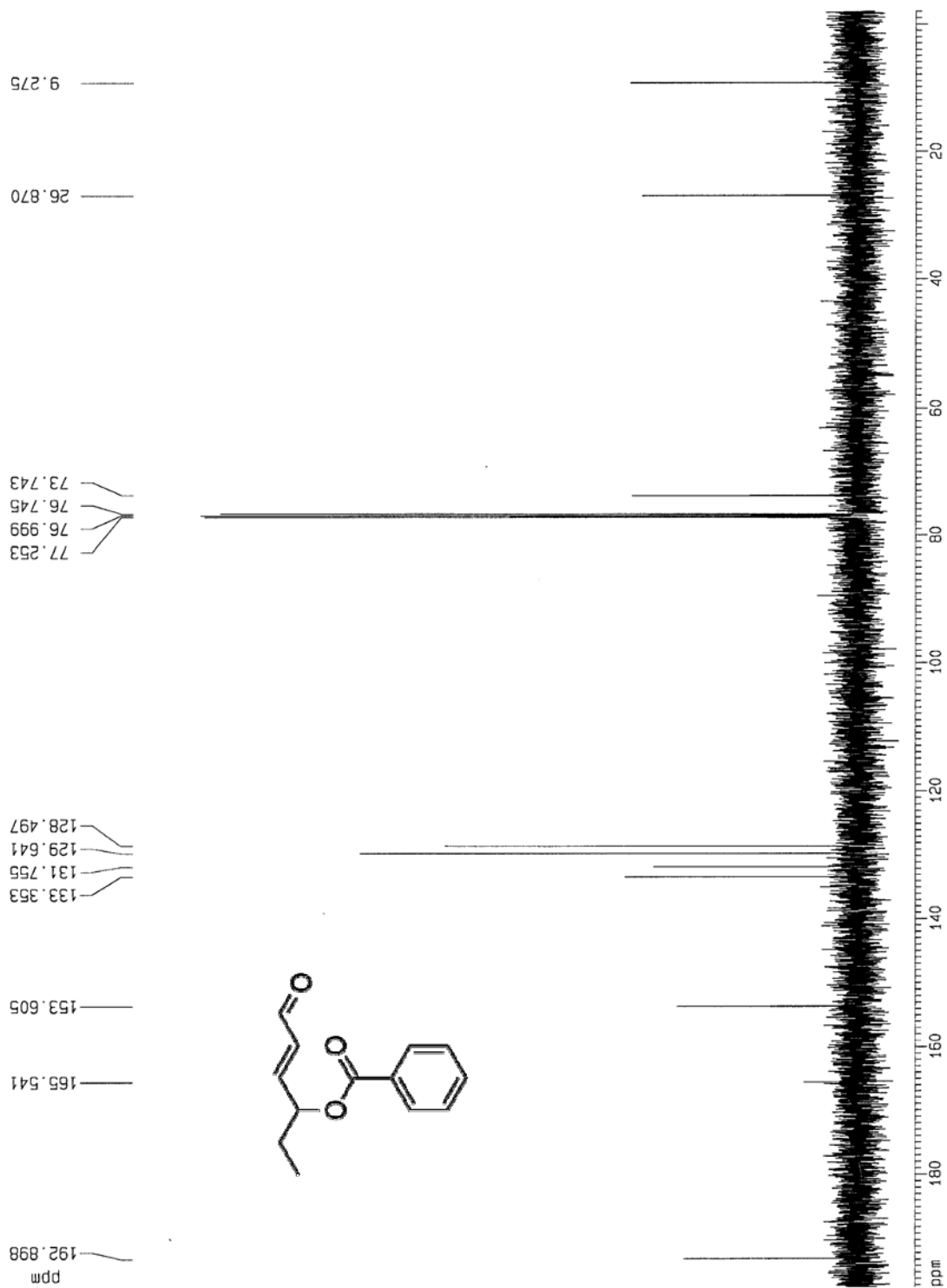


(Z)-1-oxohex-2-en-2-yl benzoate 12

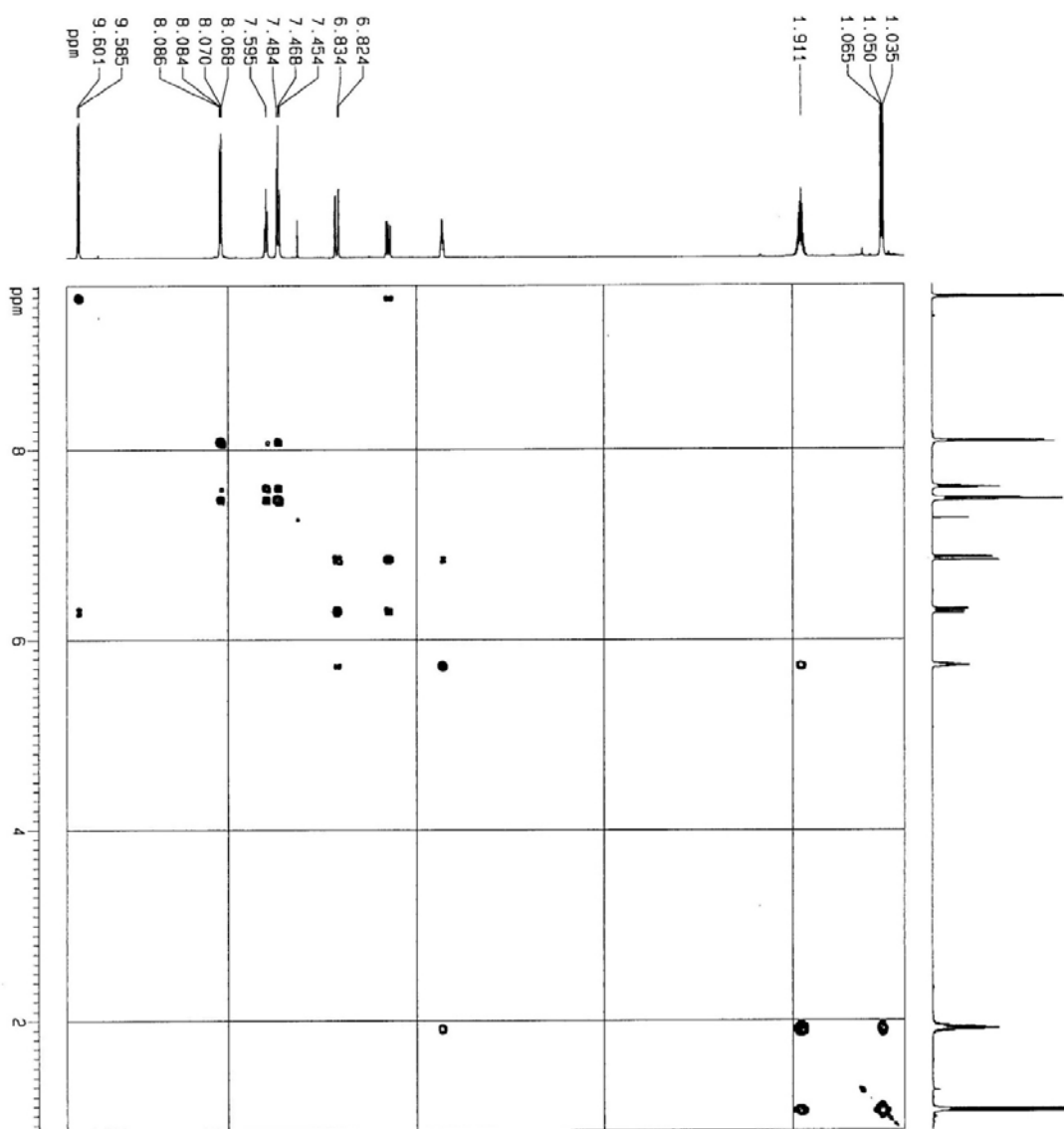
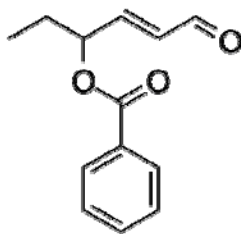


(E)-6-oxohex-4-en-3-yl benzoate 13

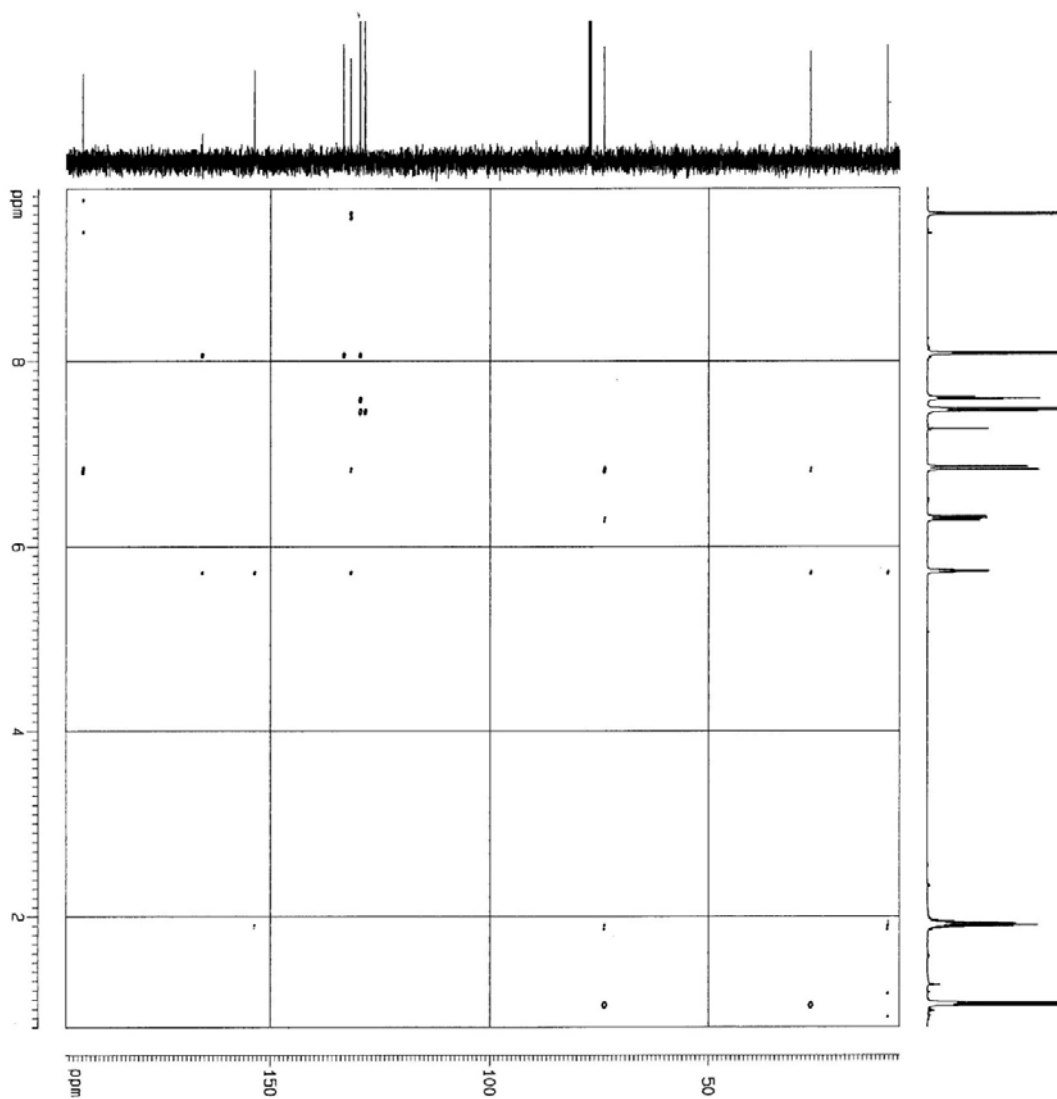
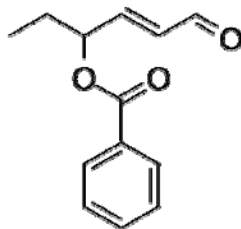


(E)-6-oxohex-4-en-3-yl benzoate 13

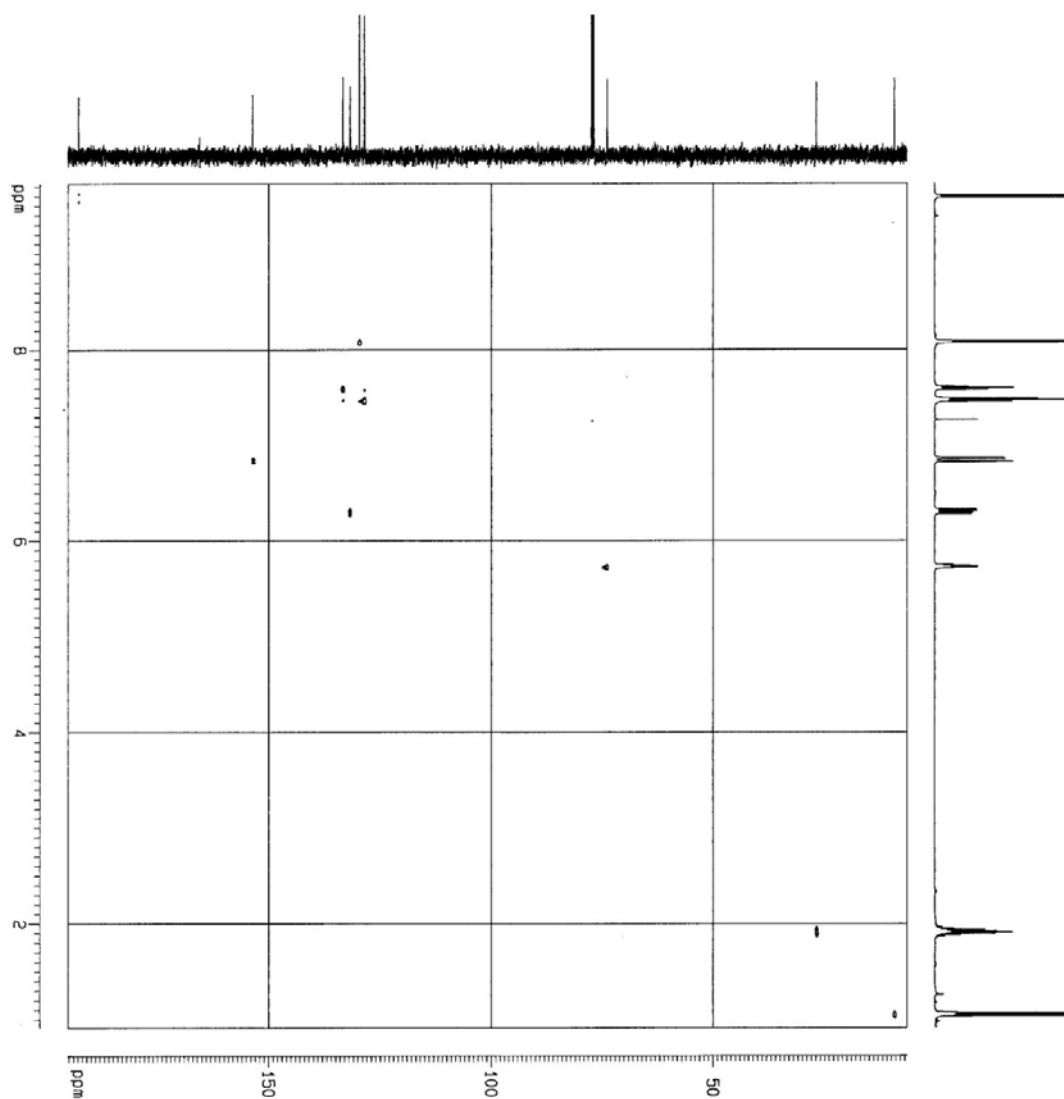
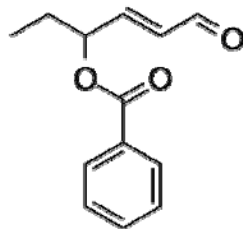
(E)-6-oxohex-4-en-3-yl benzoate 13
2D NMR COSY

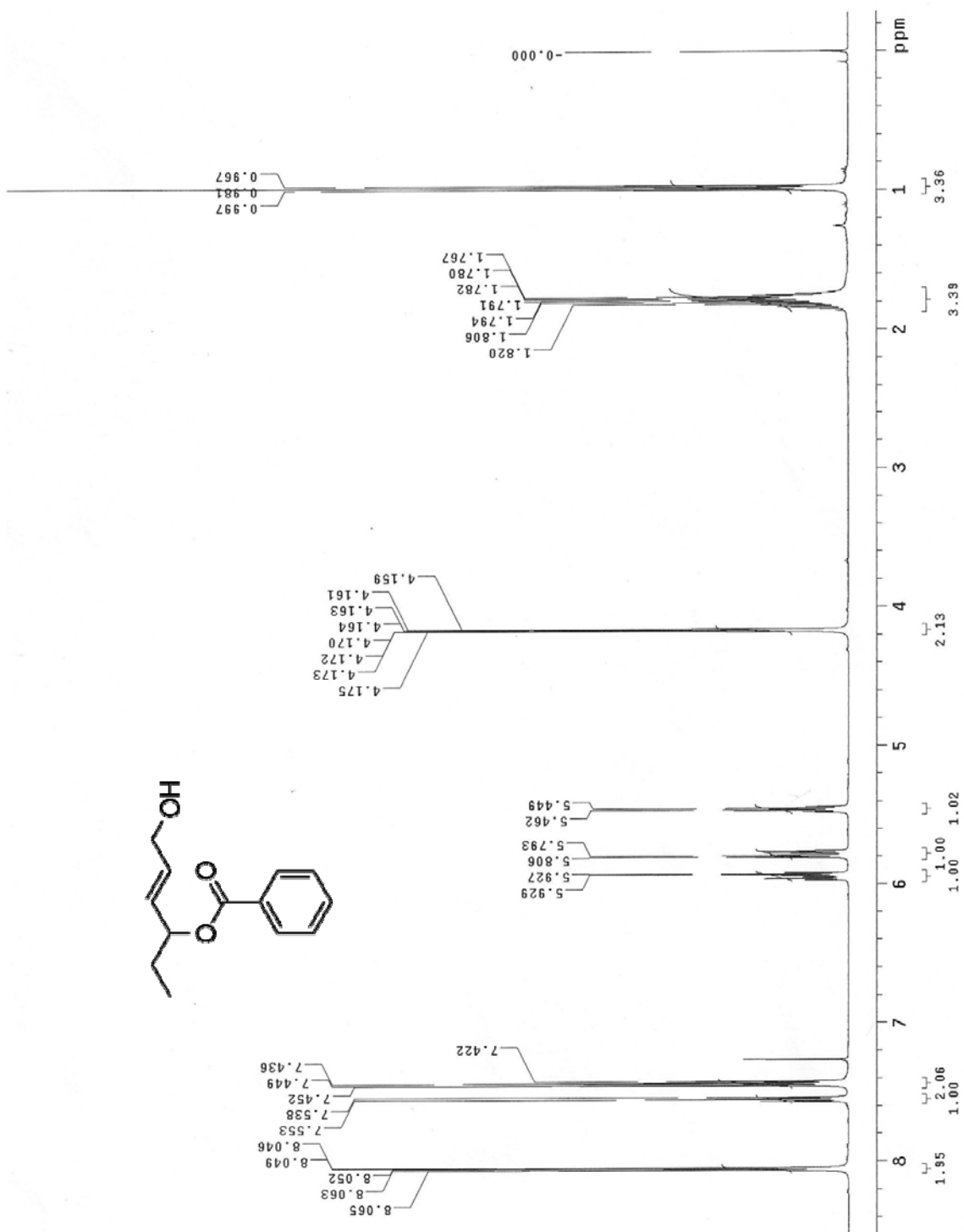


(E)-6-oxohex-4-en-3-yl benzoate 13
2D NMR HMBC

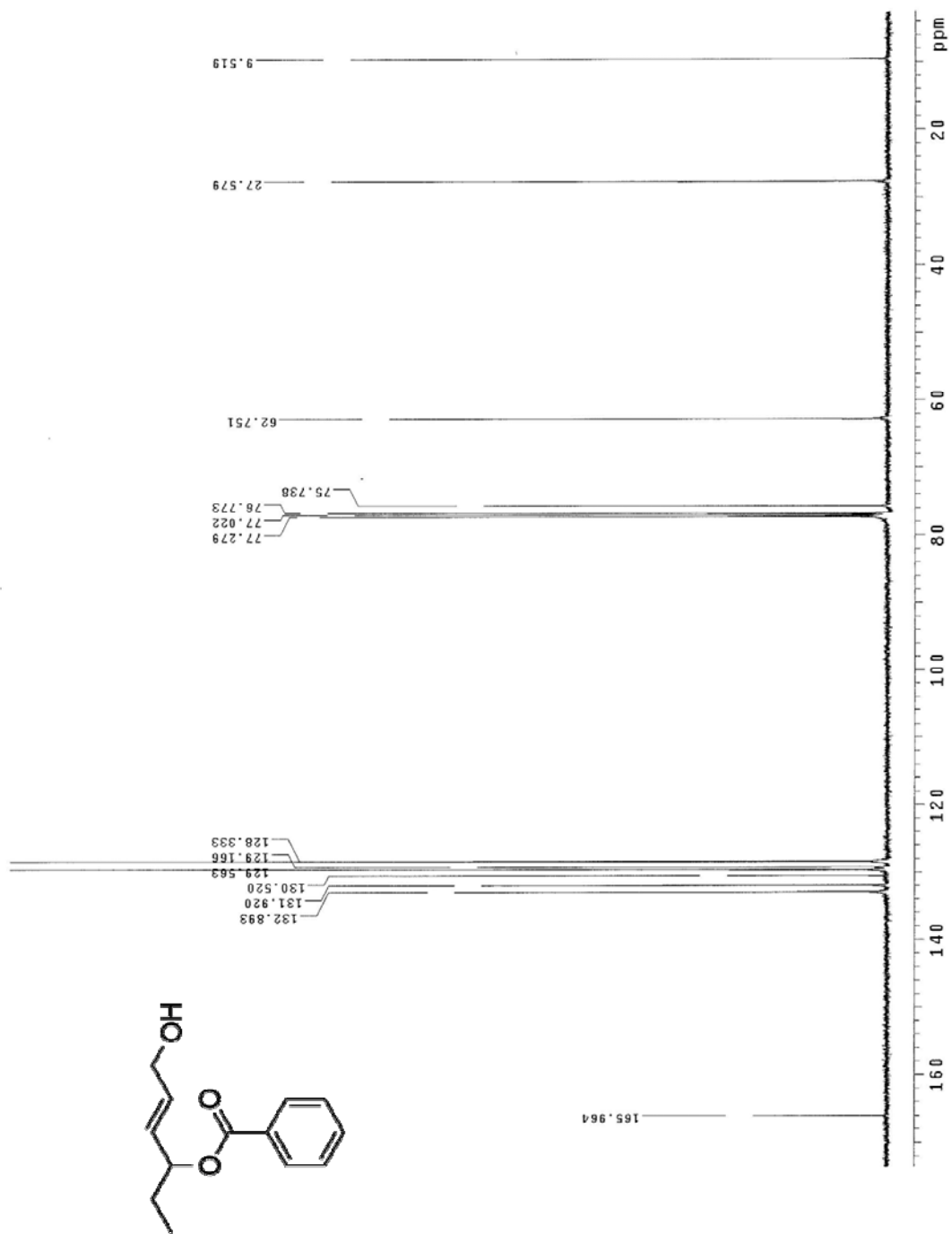


(E)-6-oxohex-4-en-3-yl benzoate 13
2D NMR HSQC

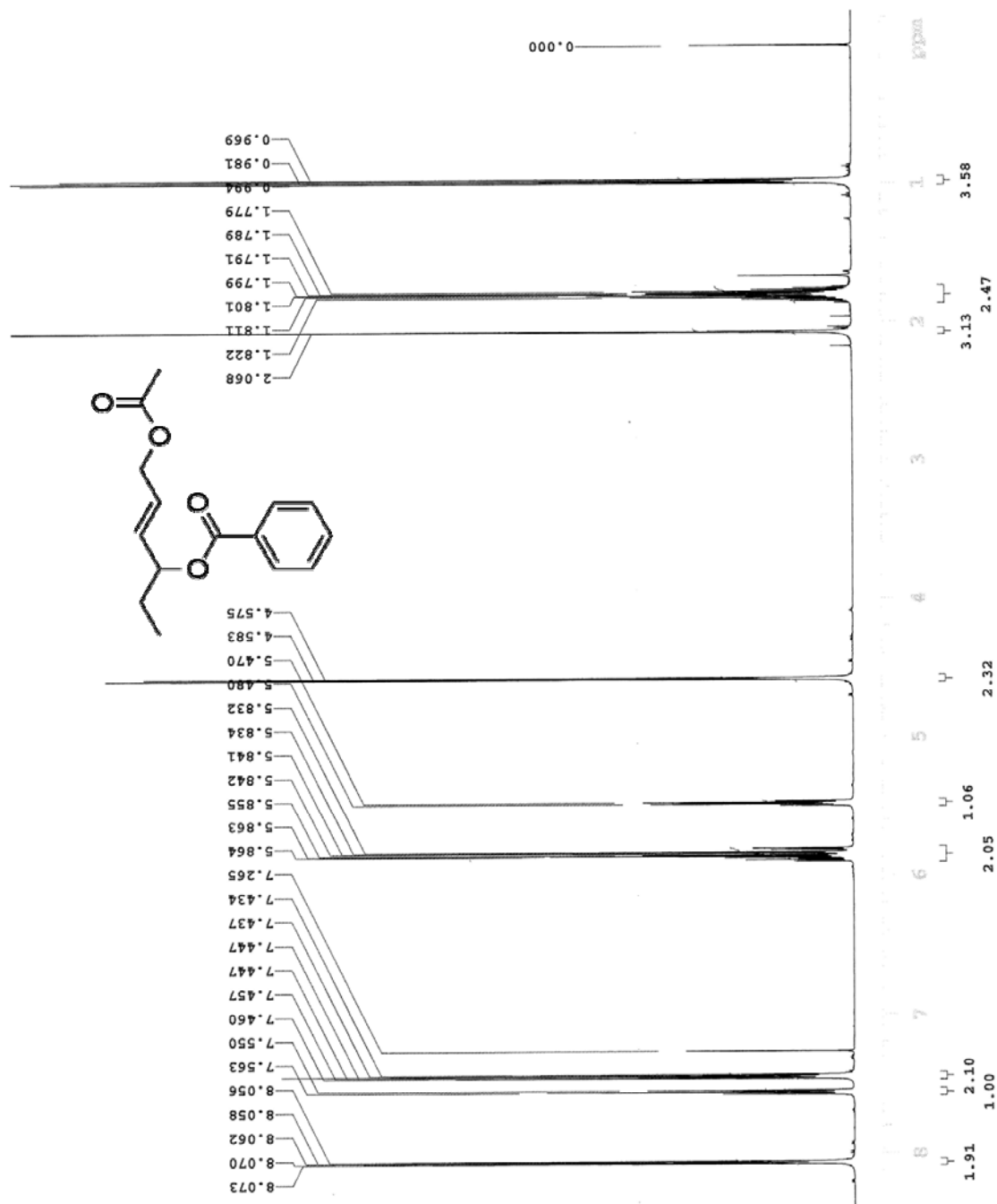


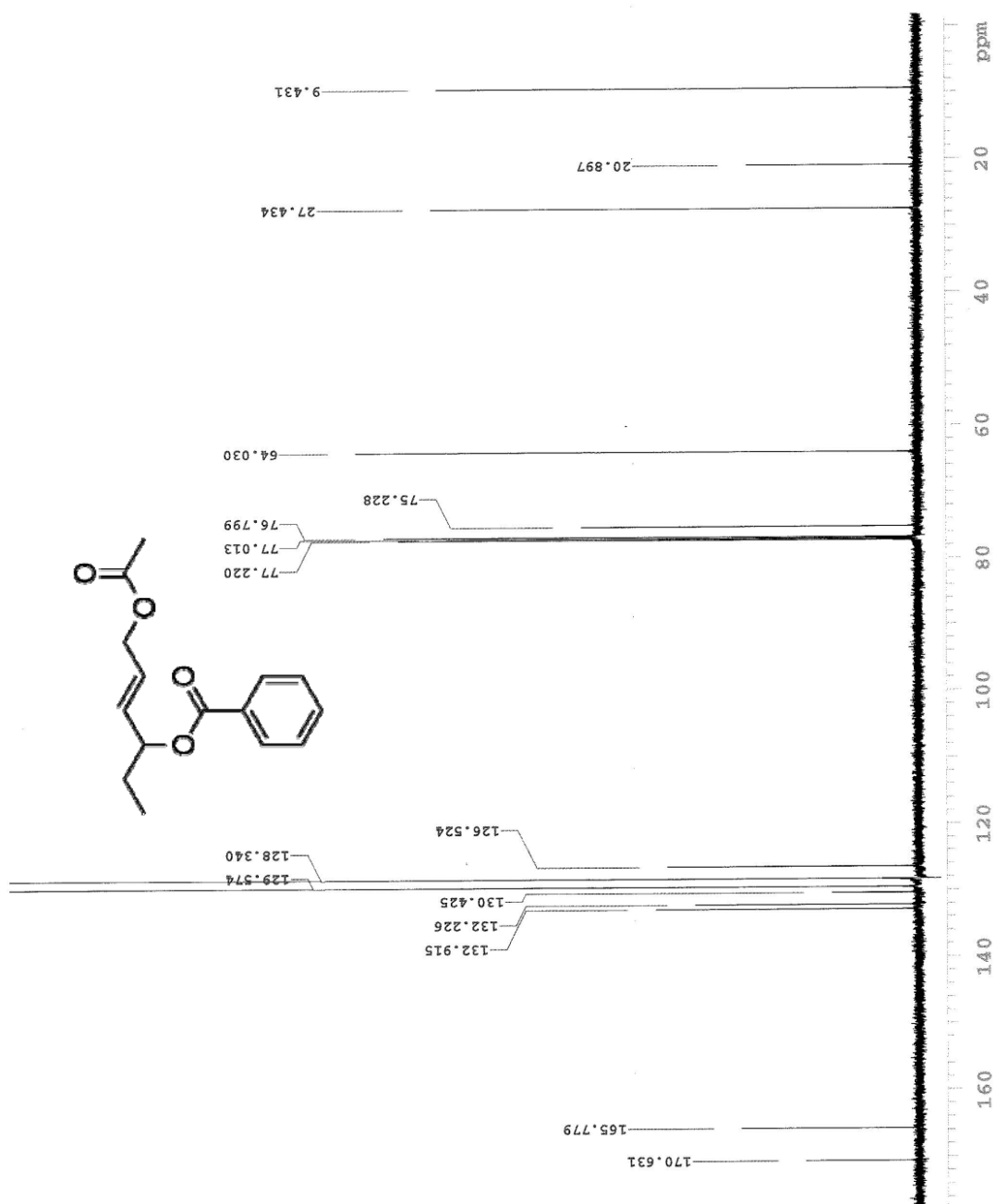
(E)-6-hydroxyhex-4-en-3-yl benzoate 14

(E)-6-hydroxyhex-4-en-3-yl benzoate **14**

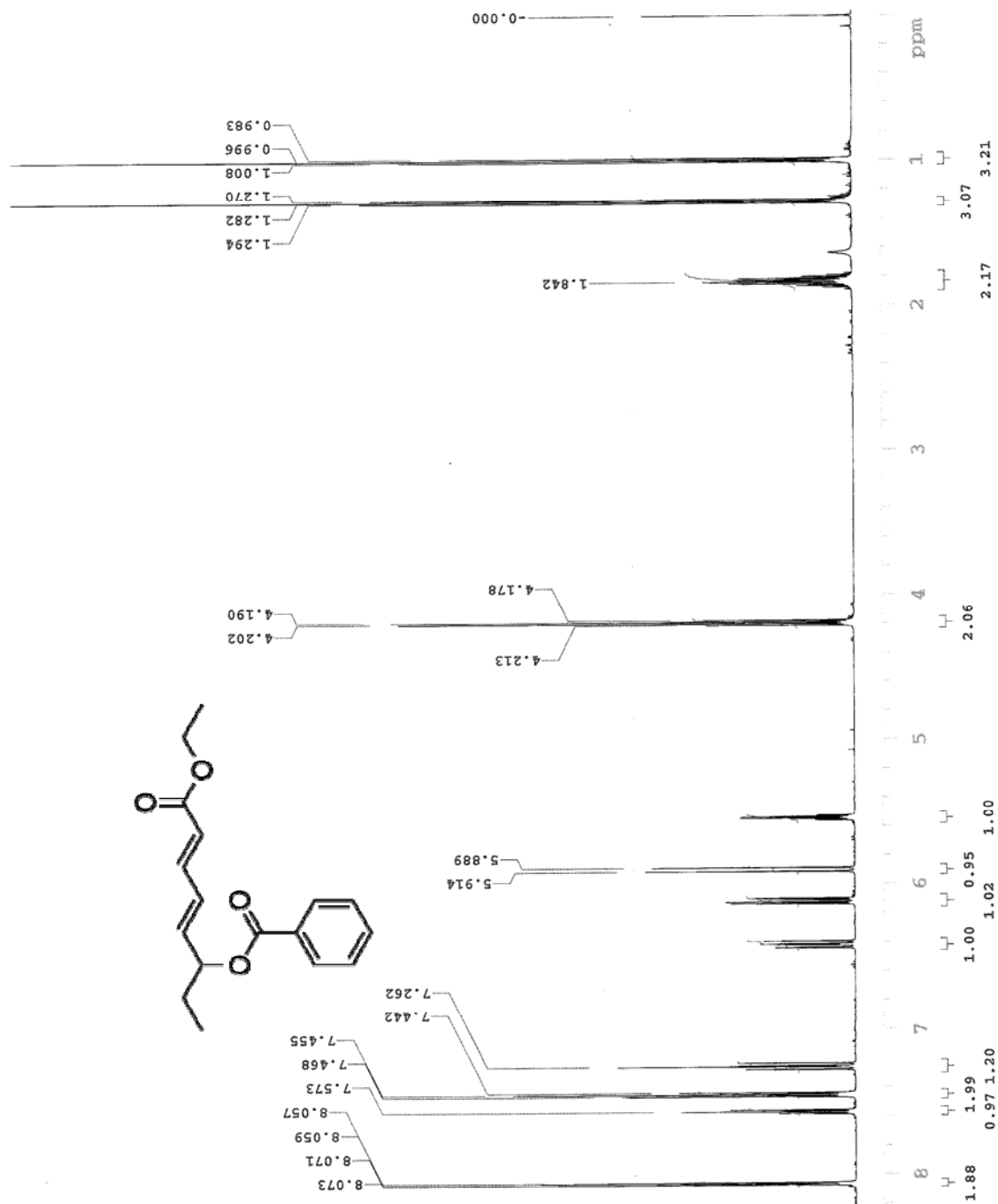


(E)-6-acetoxyhex-4-en-3-yl benzoate 15



(E)-6-acetoxylhex-4-en-3-yl benzoate 15

(4E,6E)-8-ethoxy-8-oxoocta-4,6-dien-3-yl benzoate 17



(4E,6E)-8-ethoxy-8-oxoocta-4,6-dien-3-yl benzoate 17