

Supporting Information

Stereoselective One-Pot Synthesis of β -Alkylsulfide Enol Esters. Base-Triggered Rearrangement under Mild Conditions

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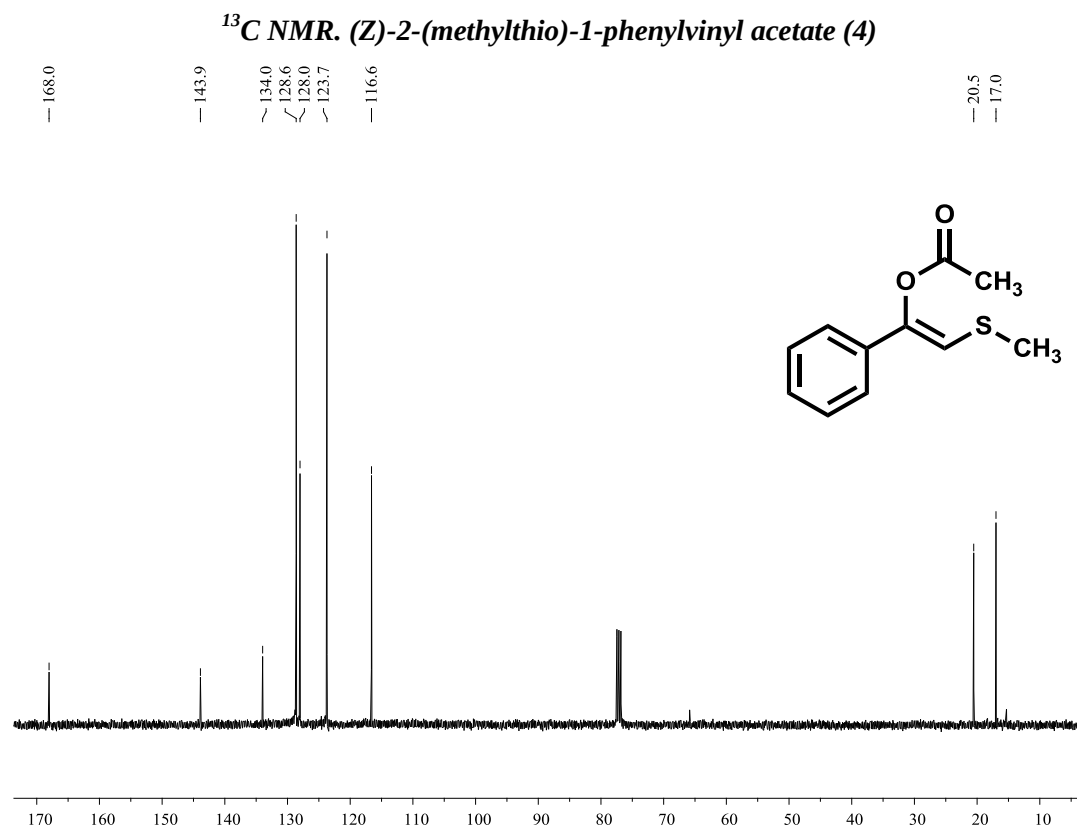
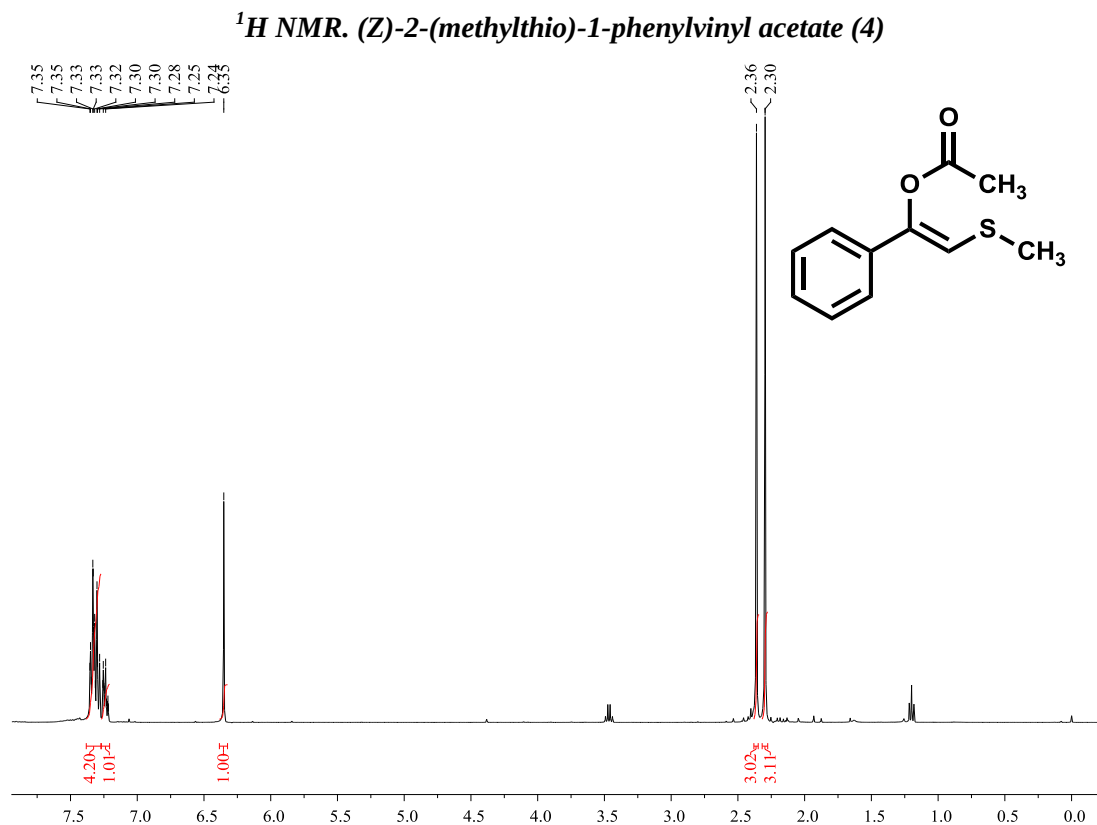
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¹H NMR. *S*-phenacyl thioacetate (3)

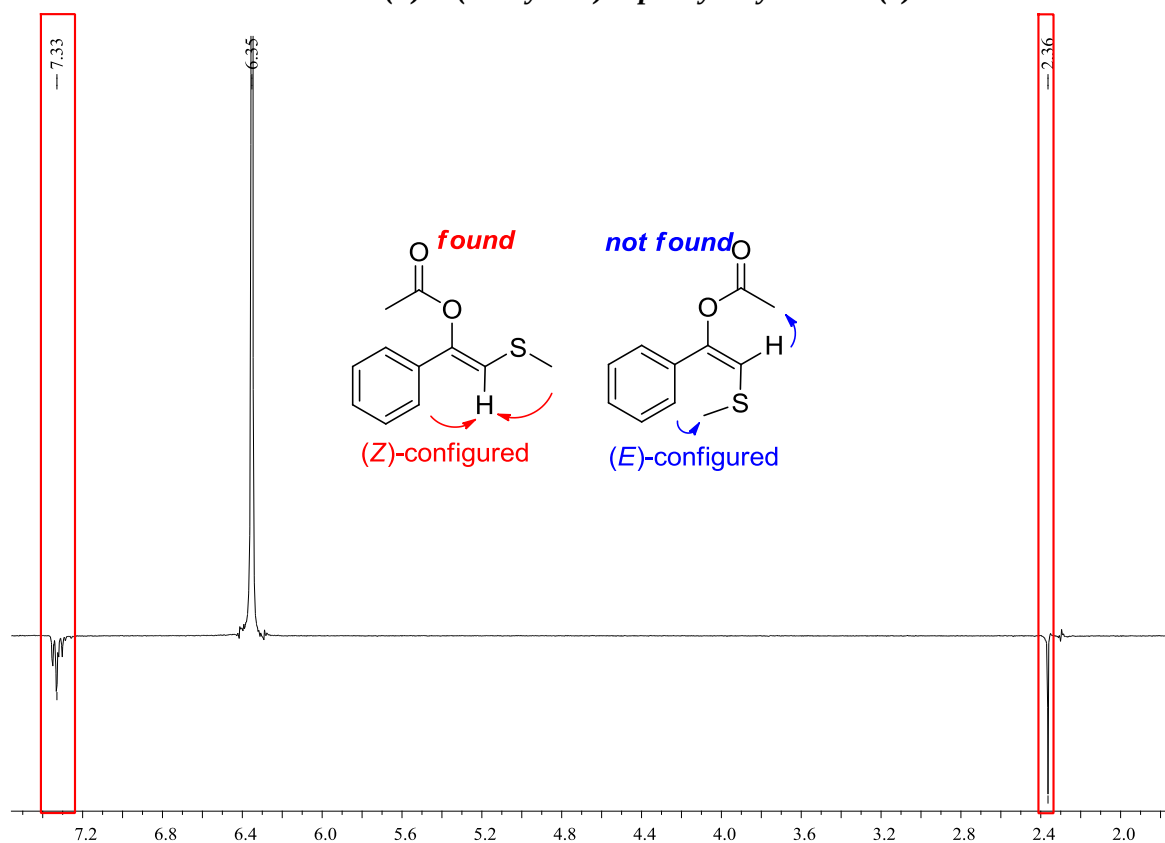


¹³C NMR. *S*-phenacyl thioacetate (3)

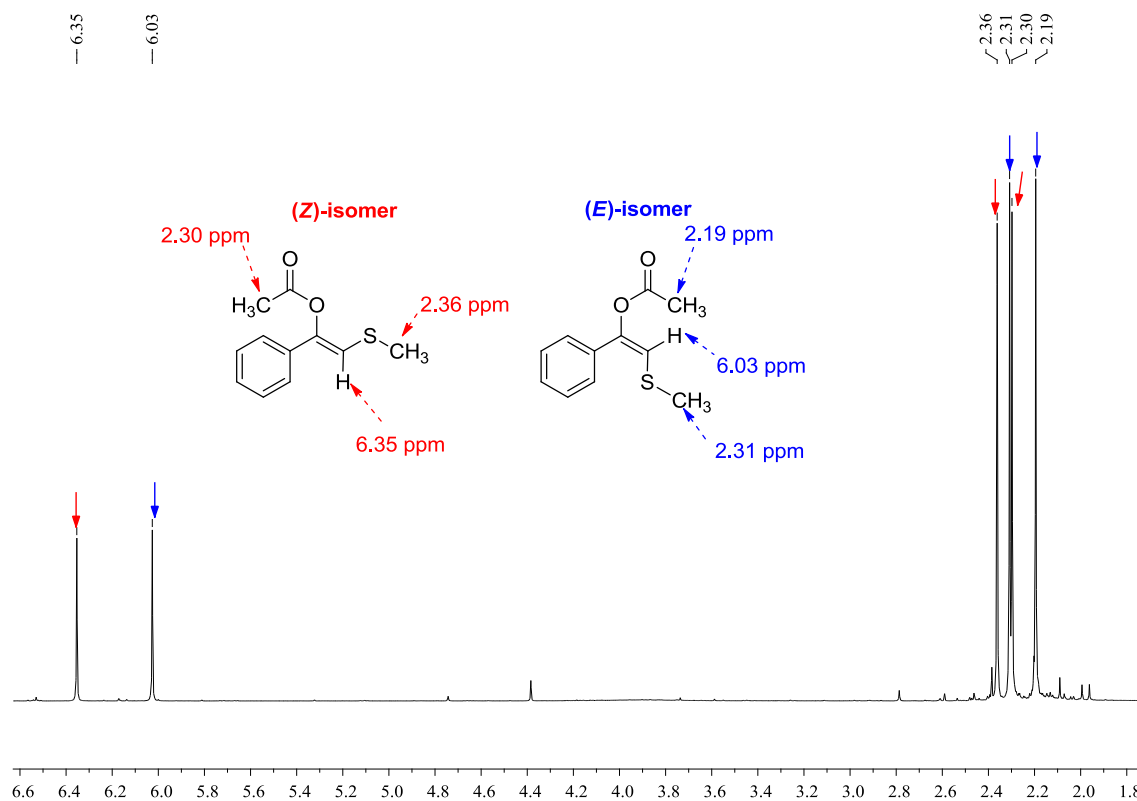


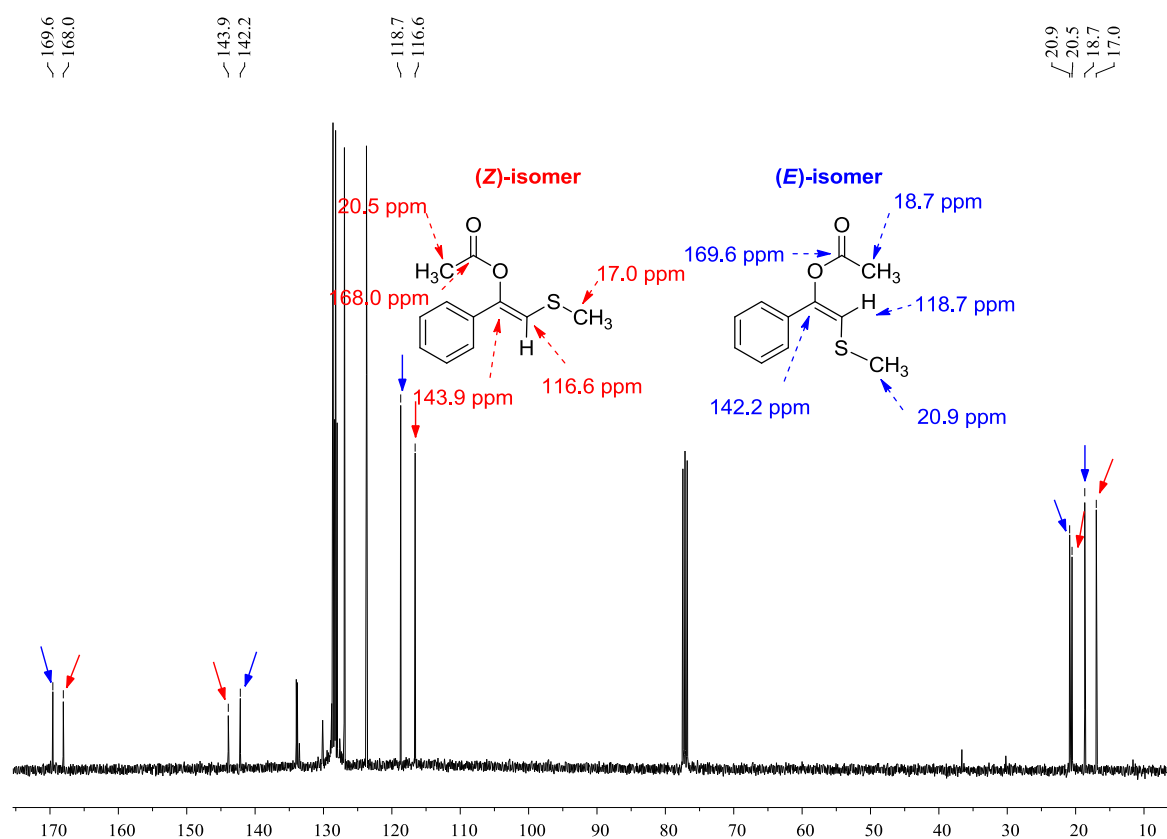


1D NOE (Z)-2-(methylthio)-1-phenylvinyl acetate (4)



^1H NMR and ^{13}C NMR spectra of a ca. 1:1 isomeric mixture of (Z,E)- 2-(methylthio)-1-phenylvinyl acetate

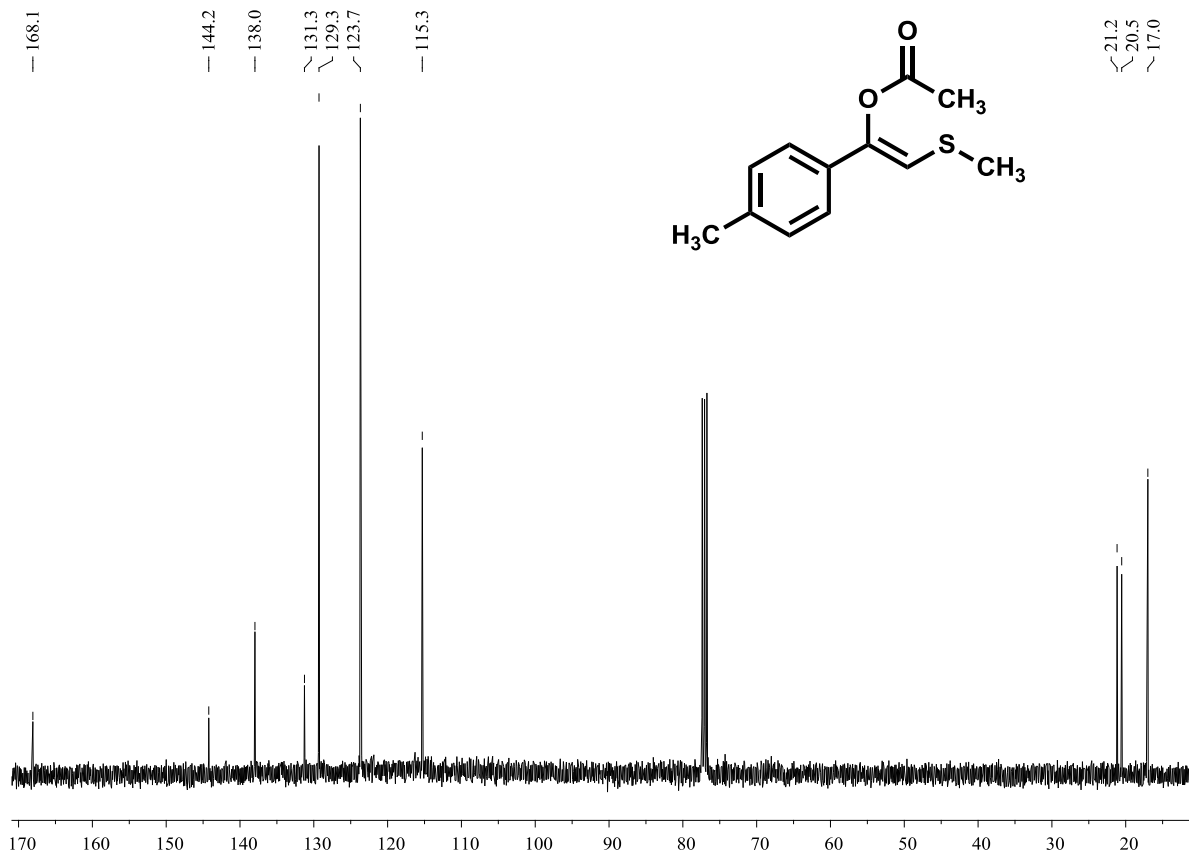




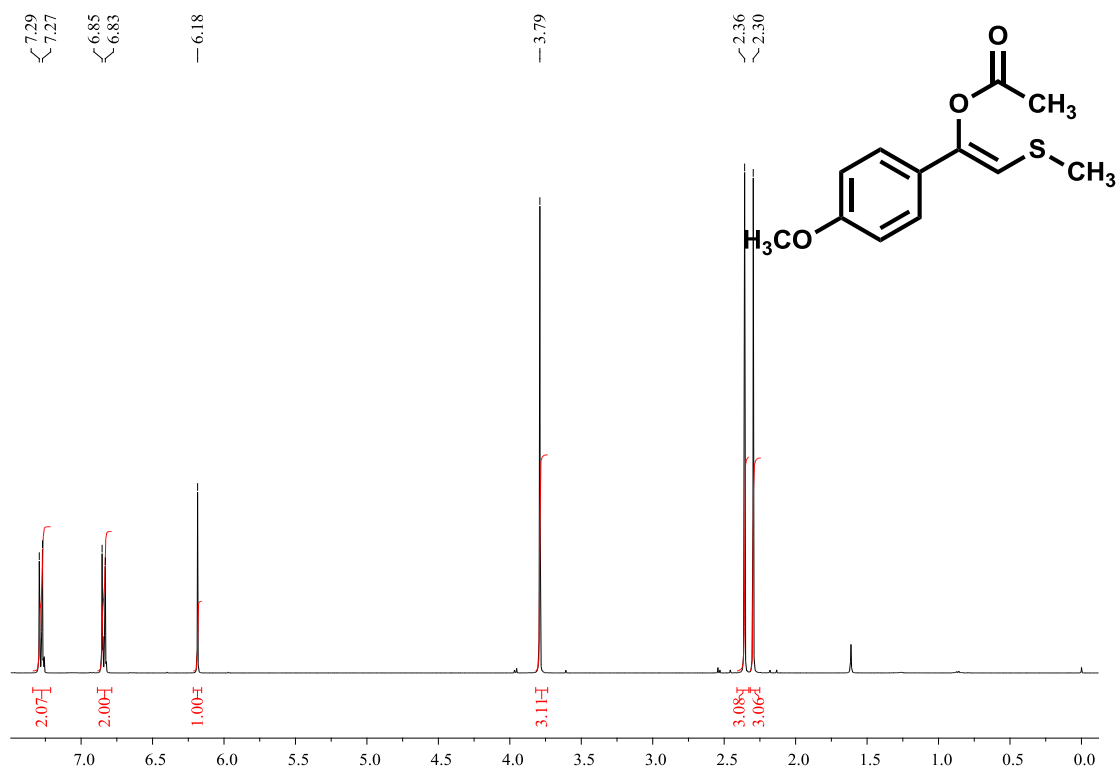
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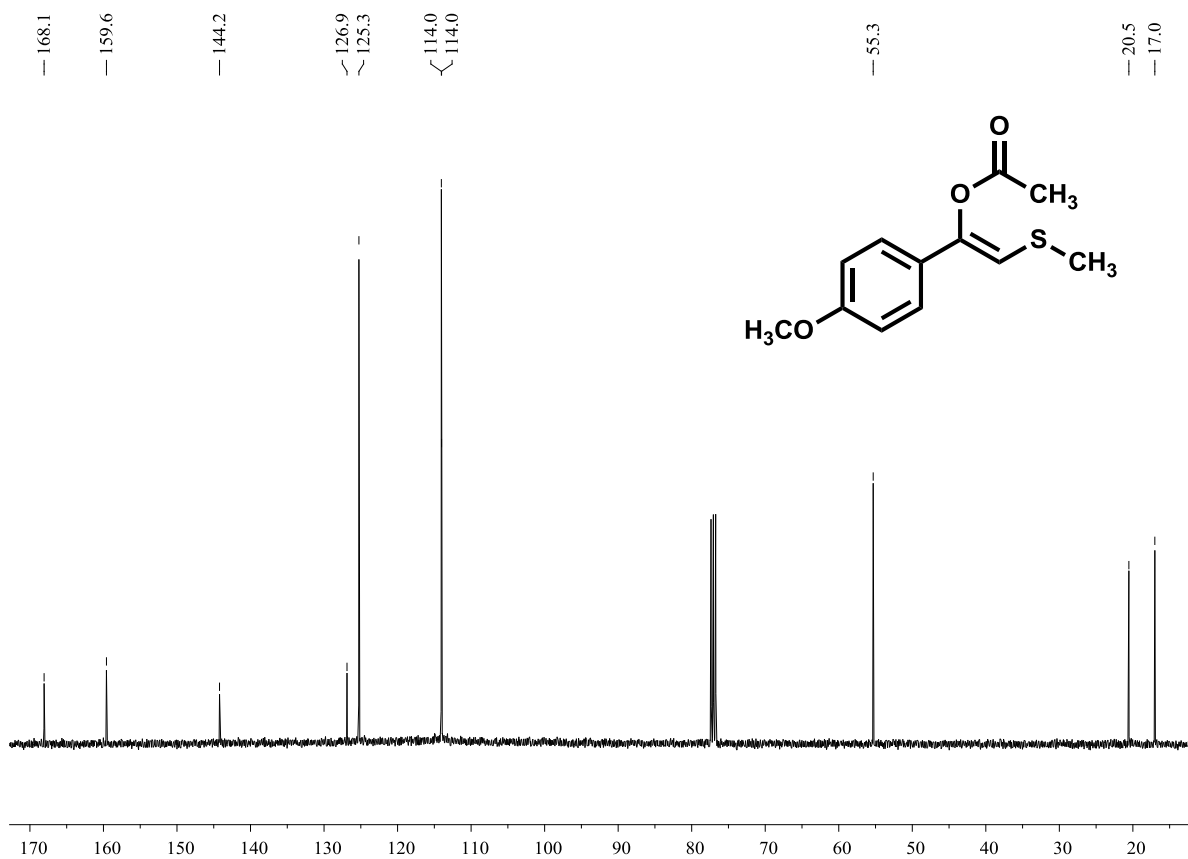
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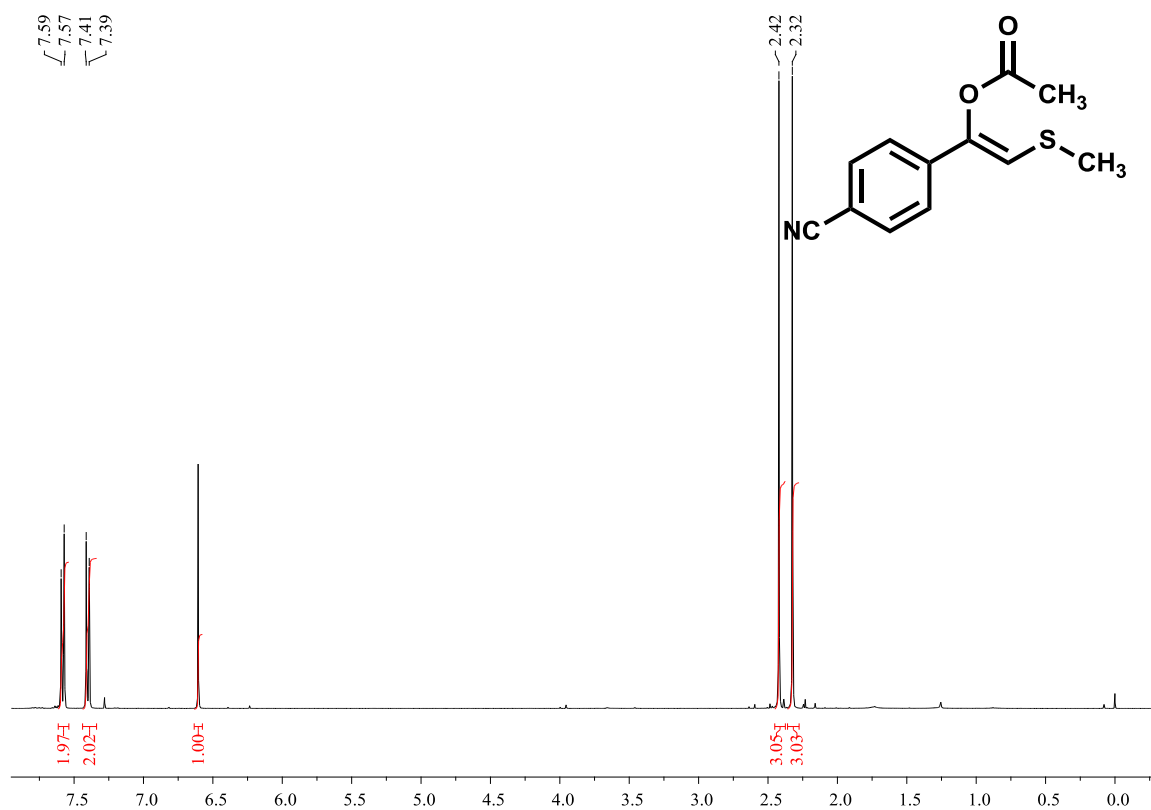
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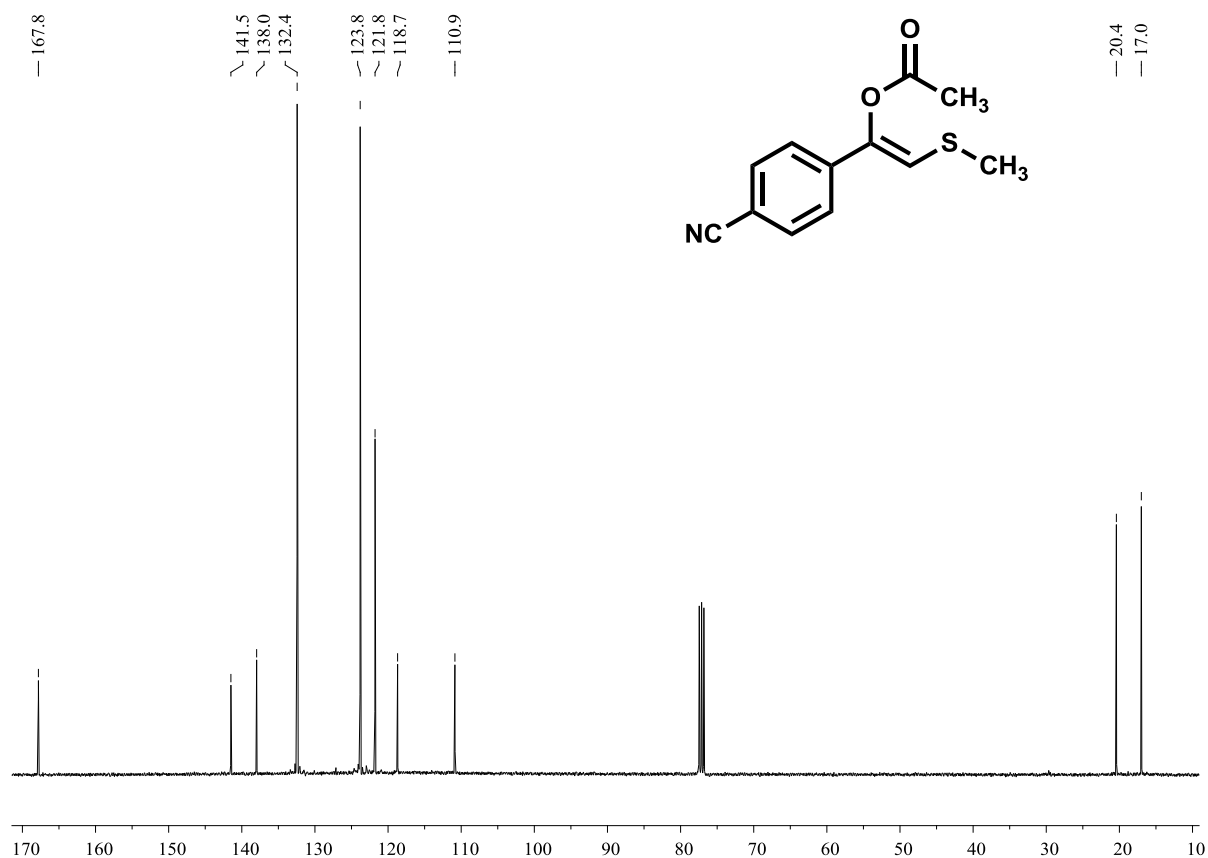
¹³C NMR. (Z)-1-(p-methoxyphenyl)-2-(methylthio)vinyl acetate (6)



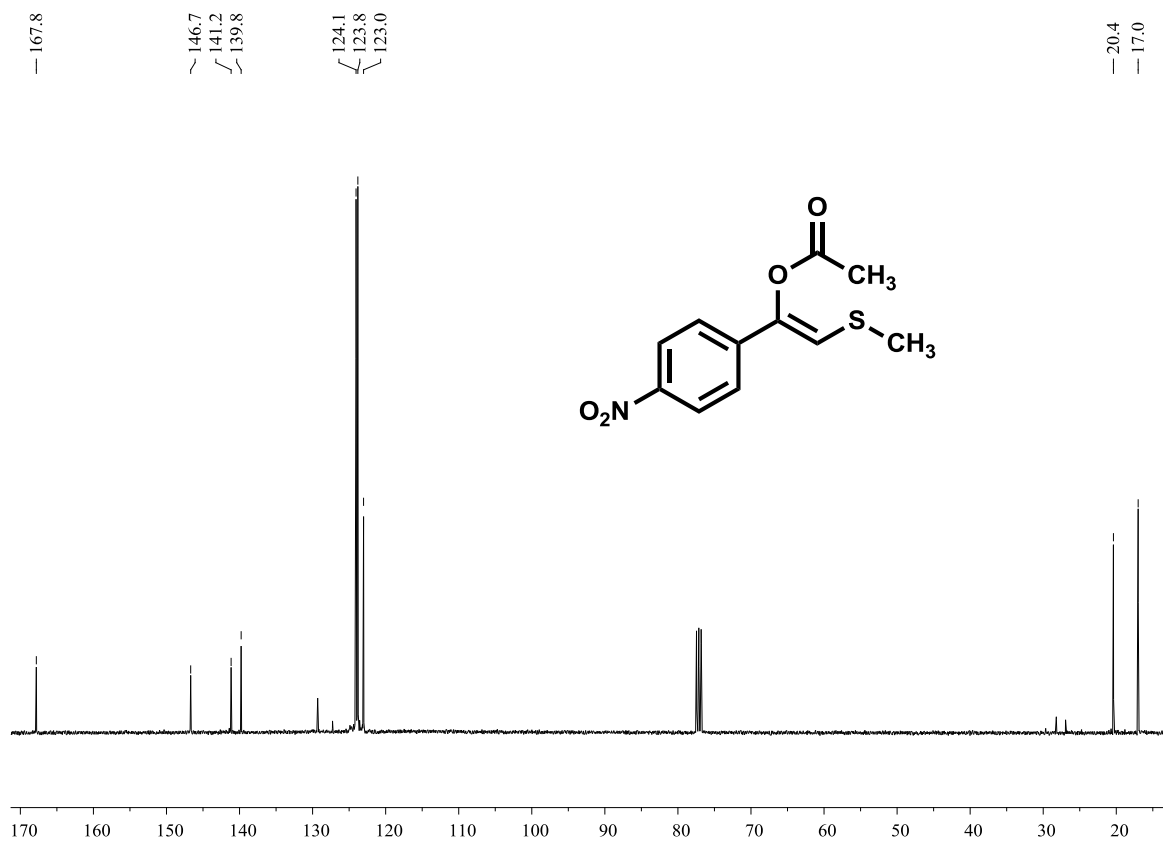
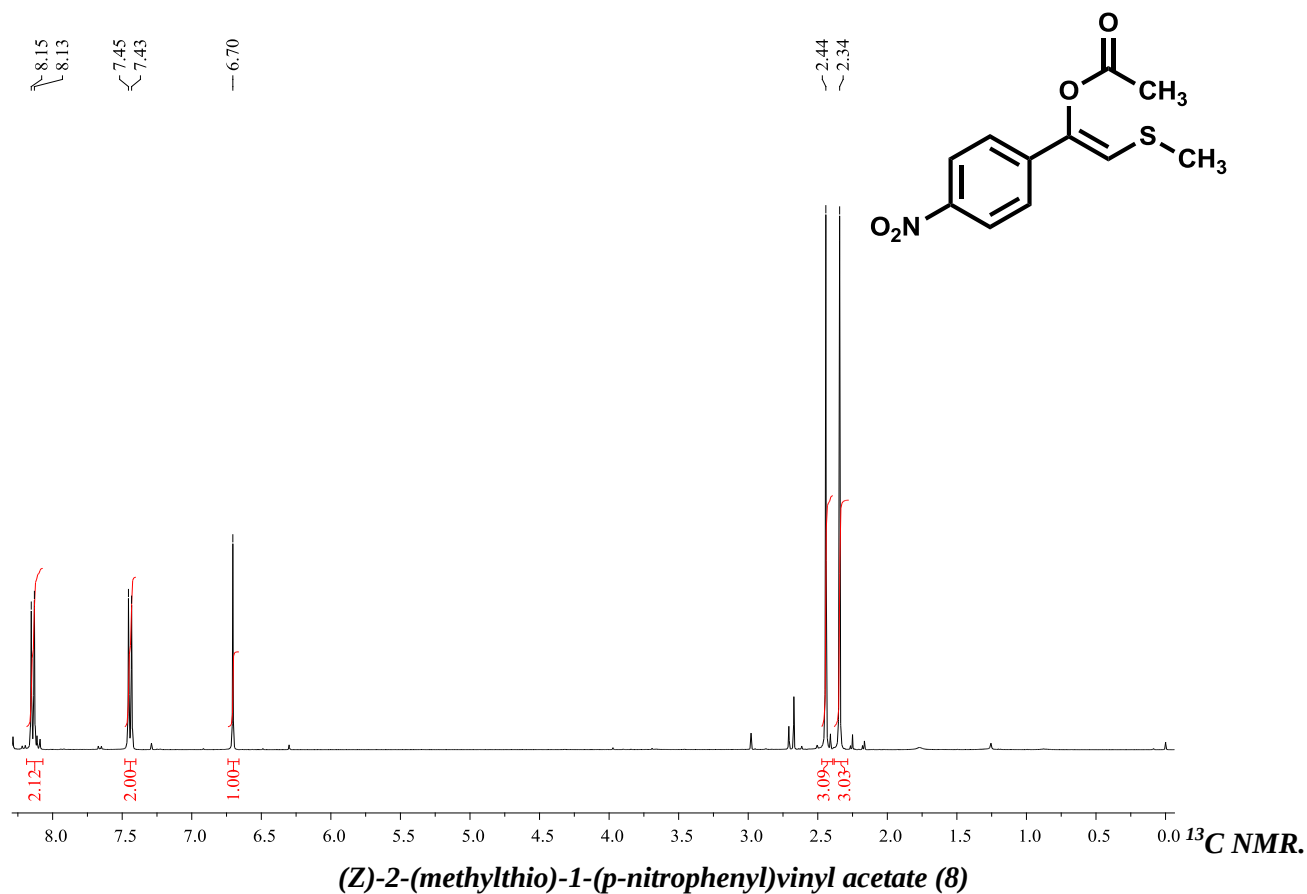
¹H NMR. (Z)-1-(p-cyanophenyl)-2-(methylthio)vinyl acetate (7)



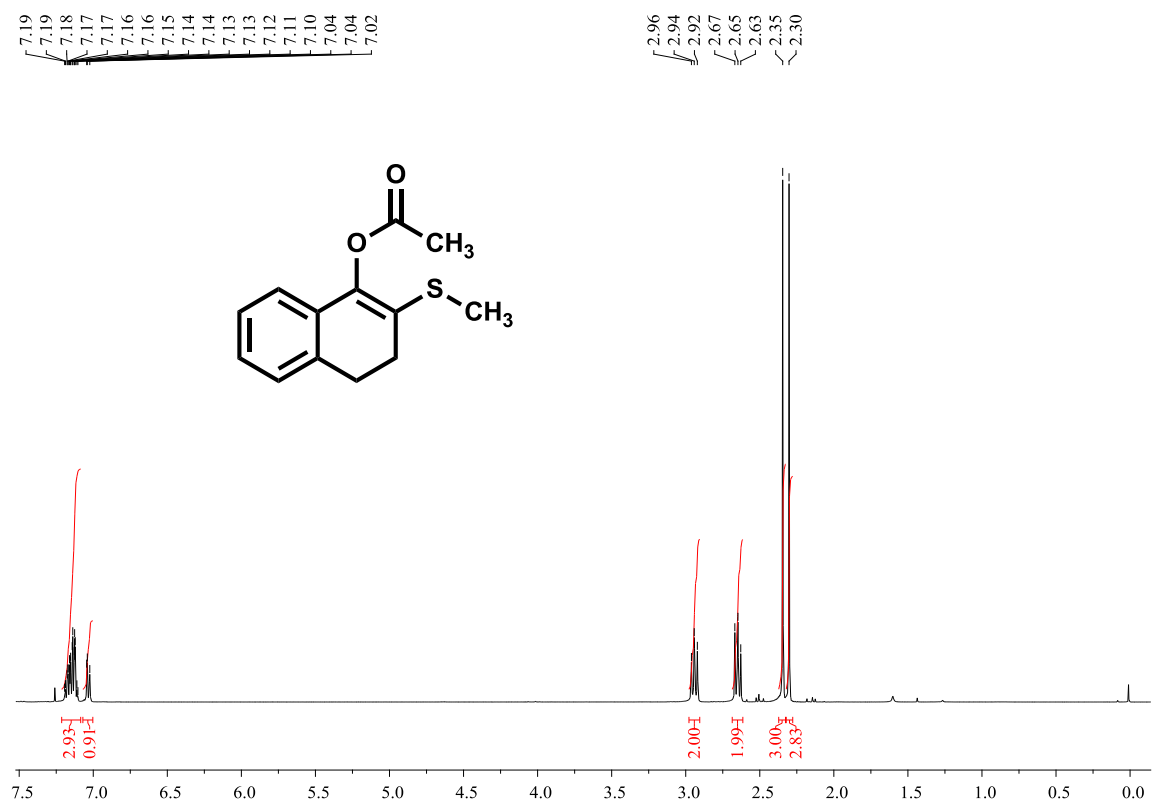
¹³C NMR. (Z)-1-(p-cyanophenyl)-2-(methylthio)vinyl acetate (7)



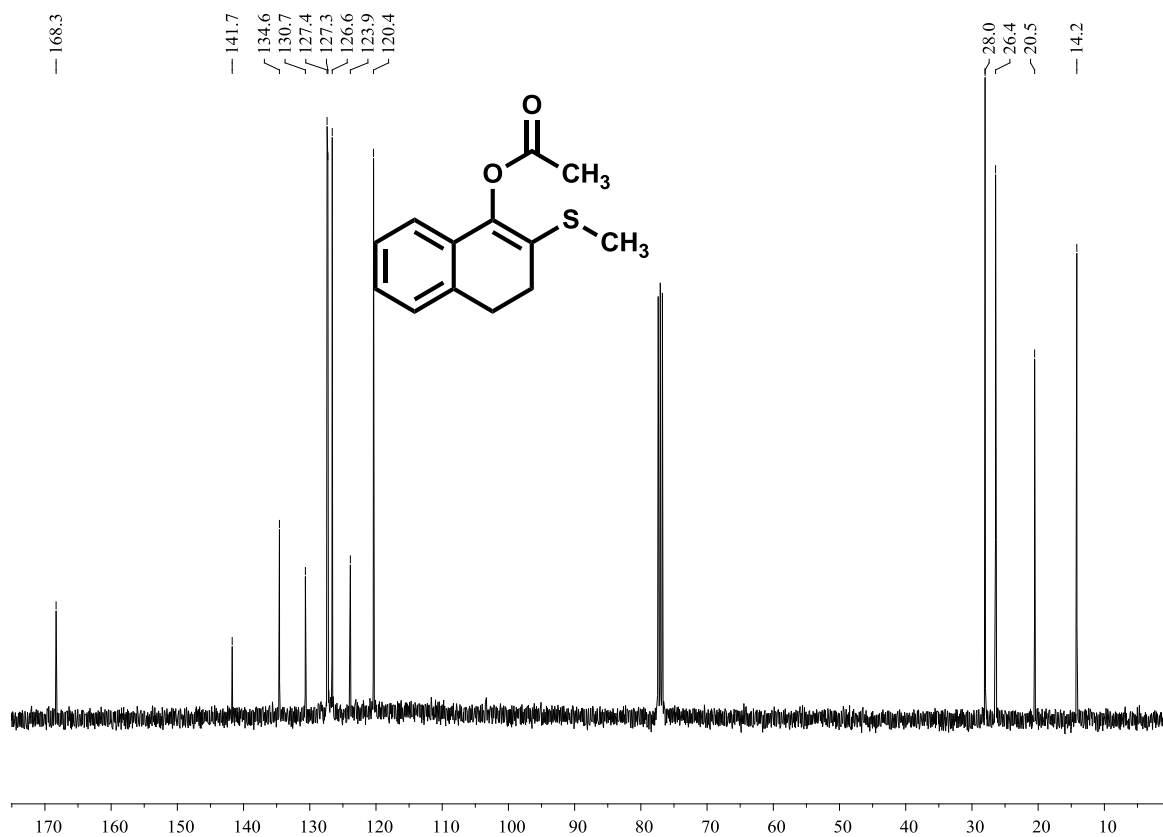
¹H NMR. (Z)-2-(methylthio)-1-(p-nitrophenyl)vinyl acetate (8)



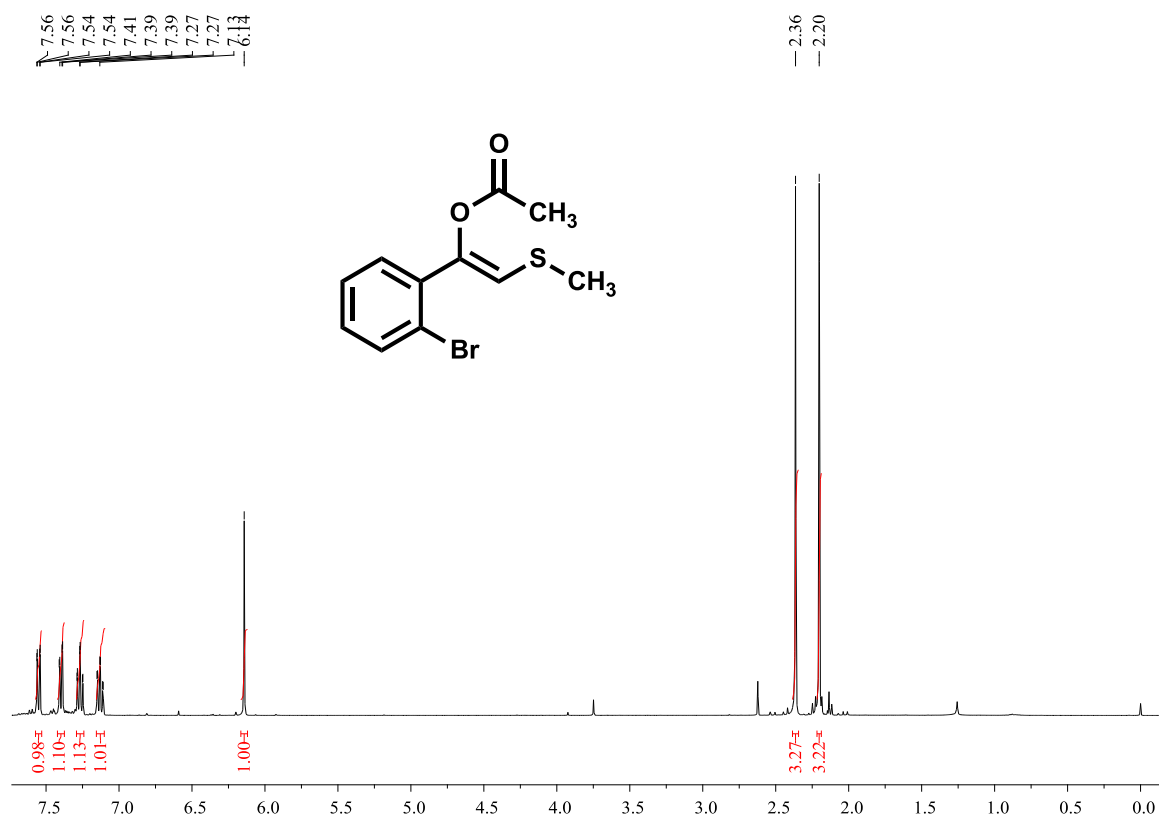
¹H NMR. 2-(methylthio)-3,4-dihydronaphthalen-1-yl acetate (9)



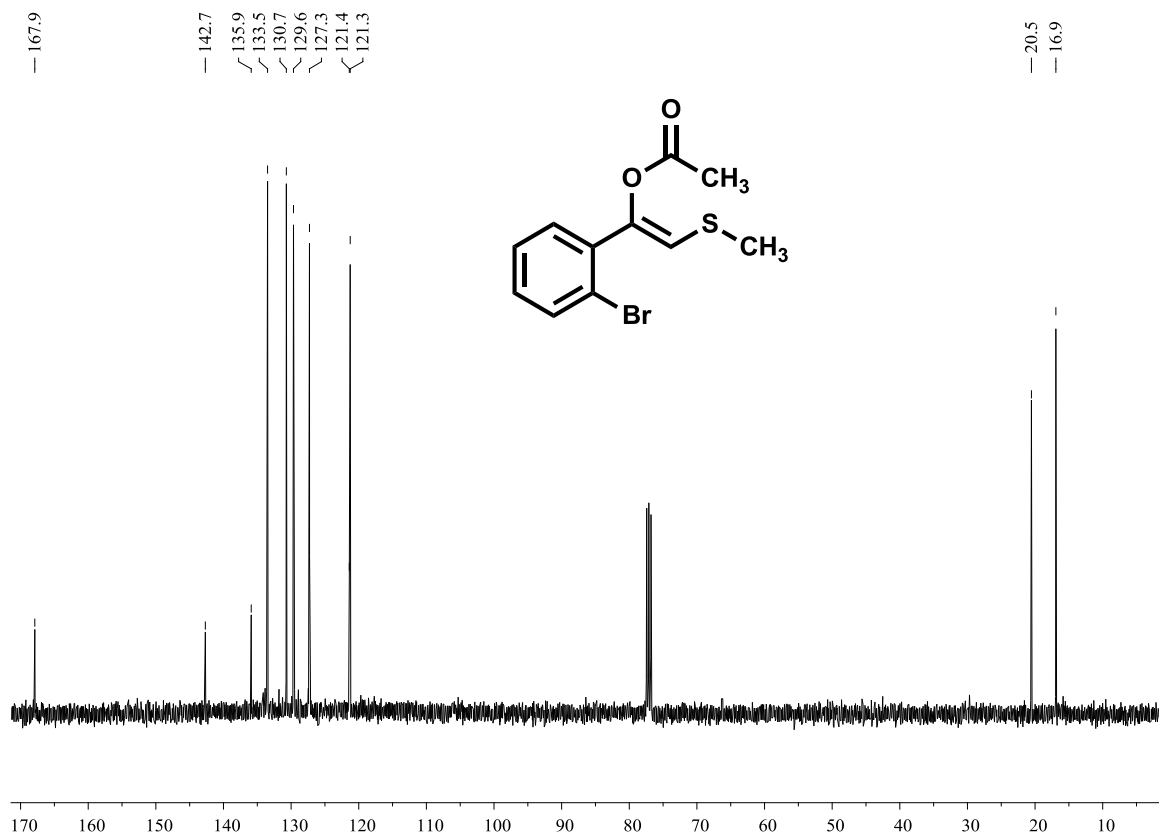
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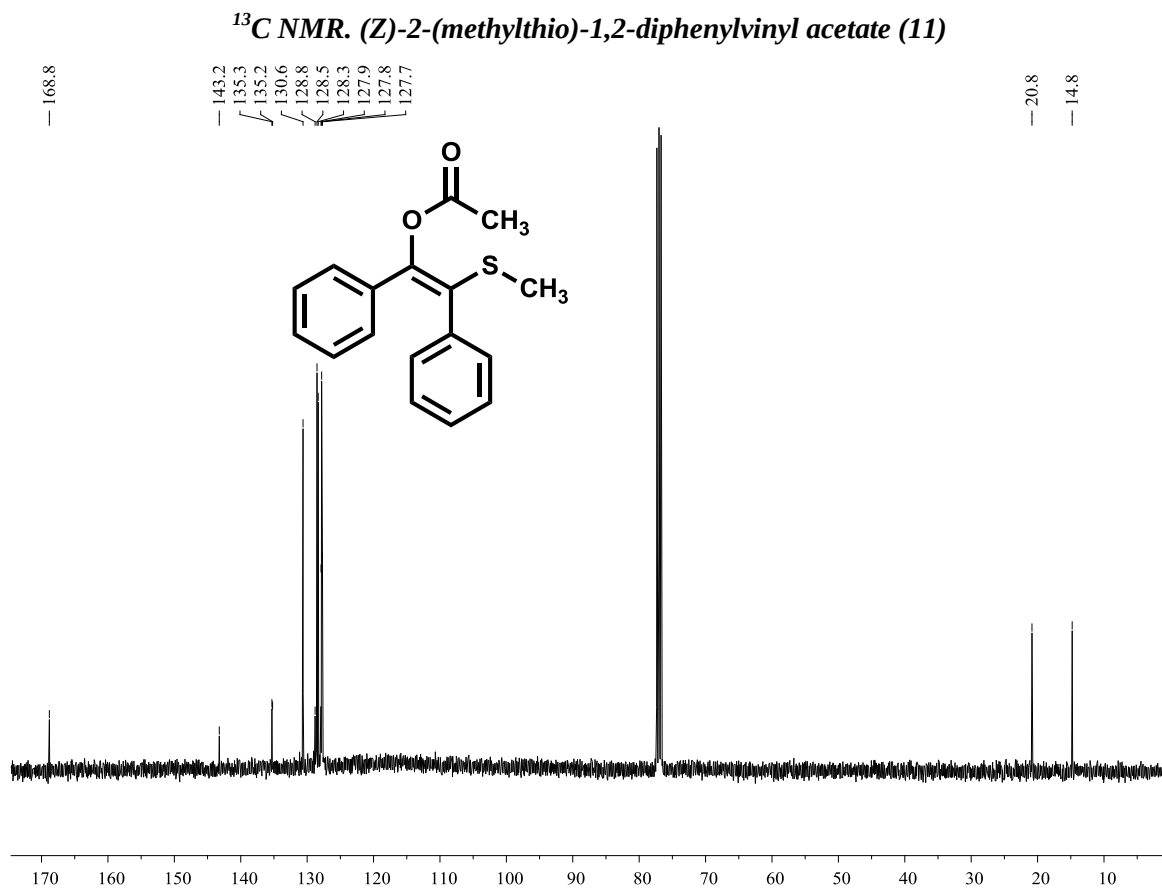
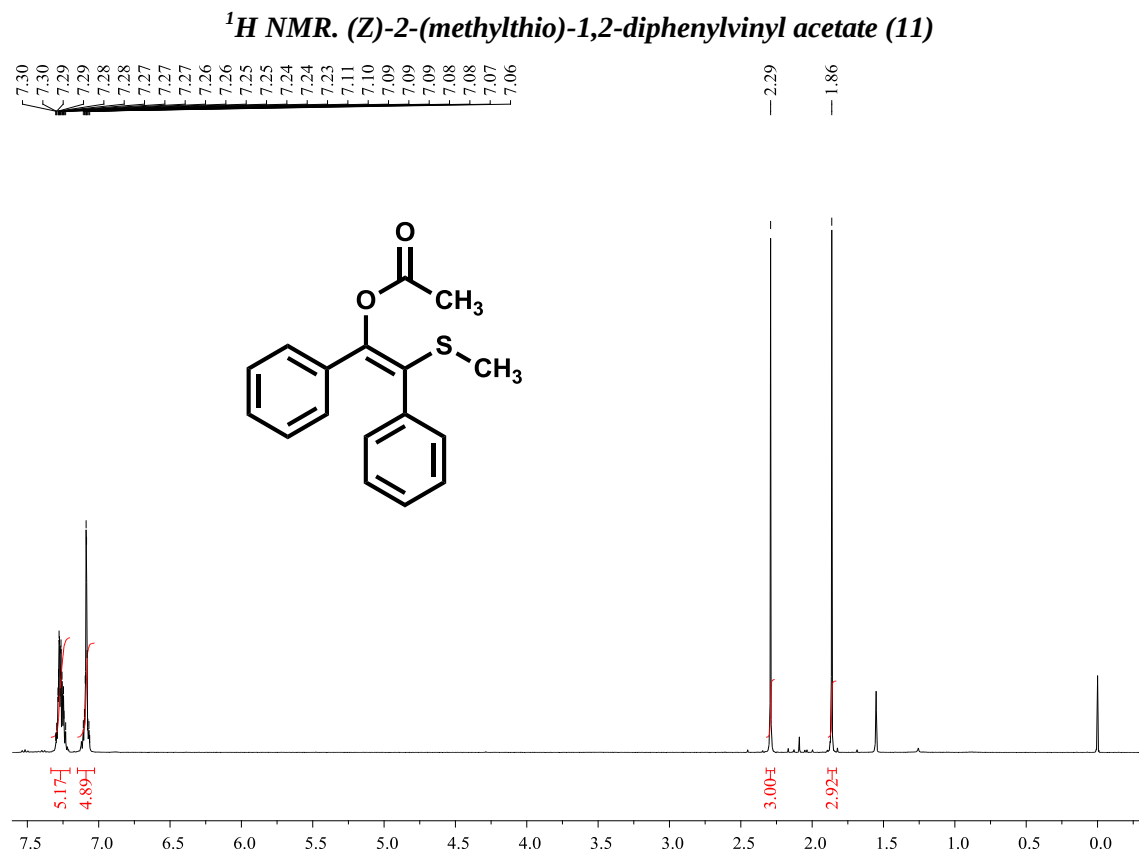


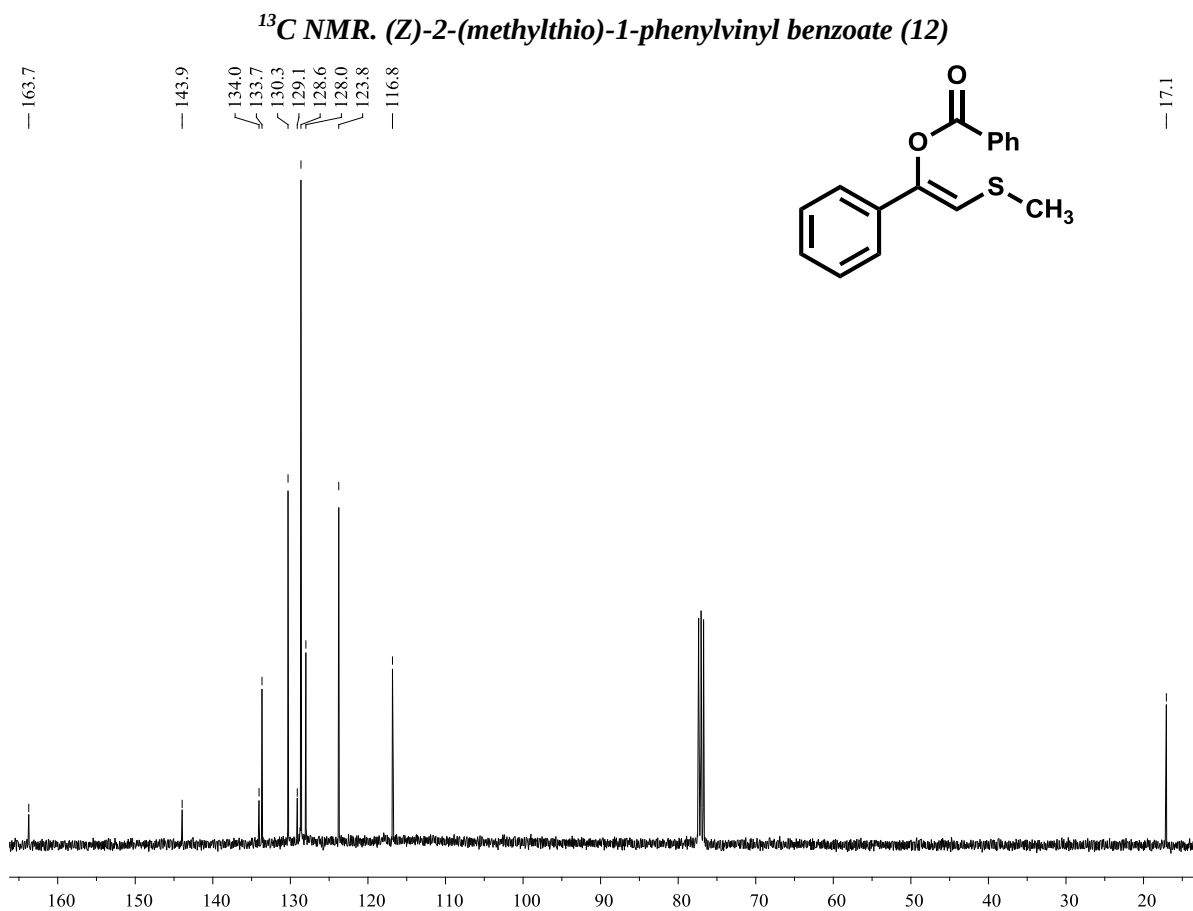
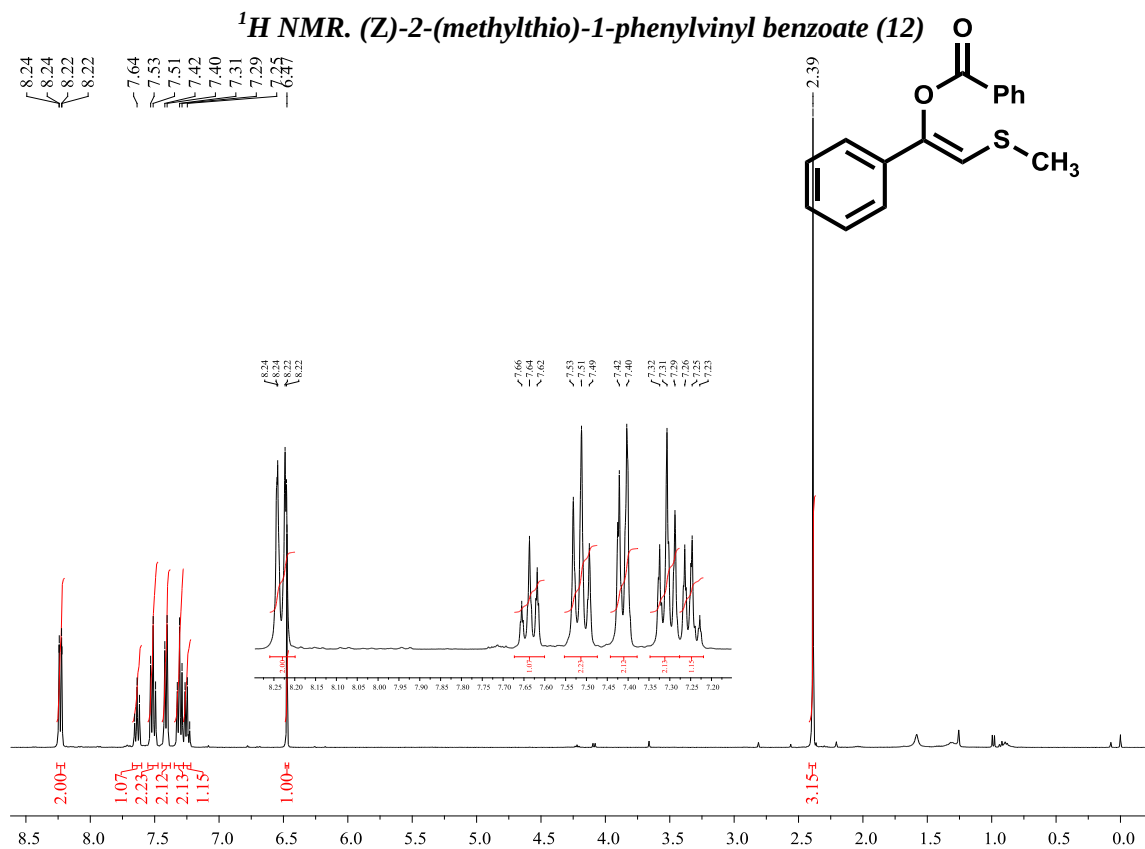
¹H NMR. (Z)-1-(2-bromophenyl)-2-(methylthio)vinyl acetate (10)



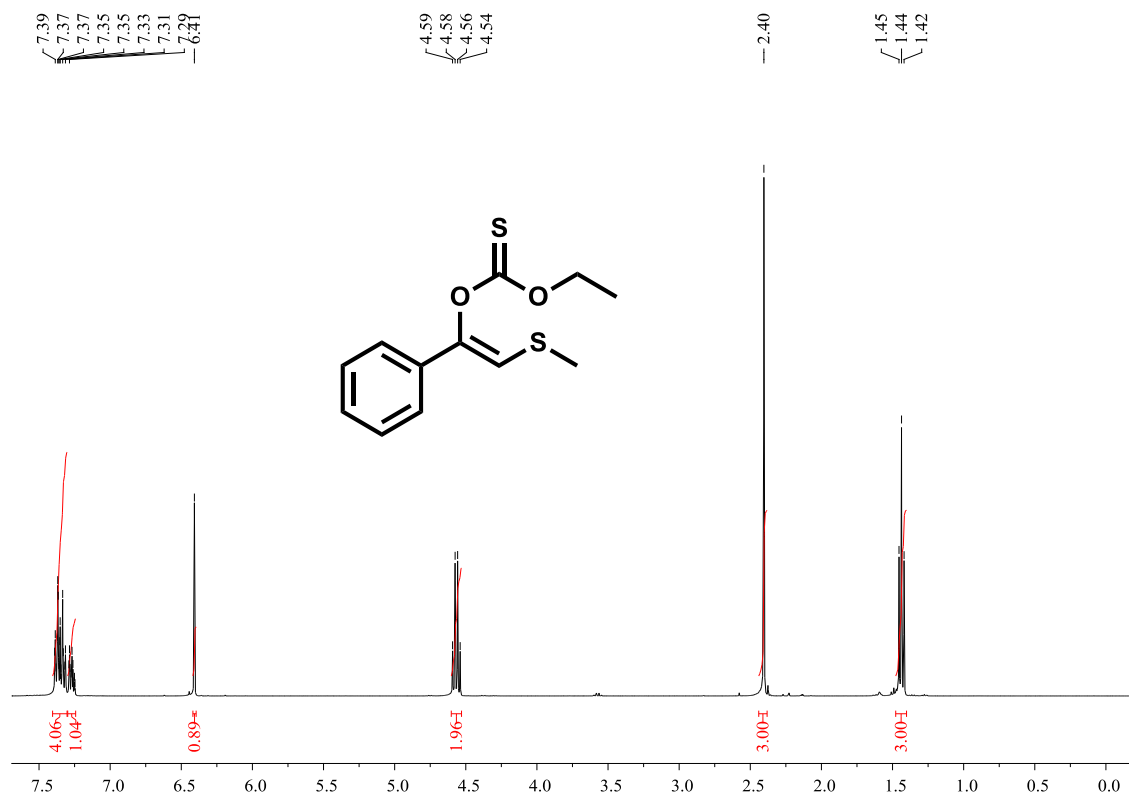
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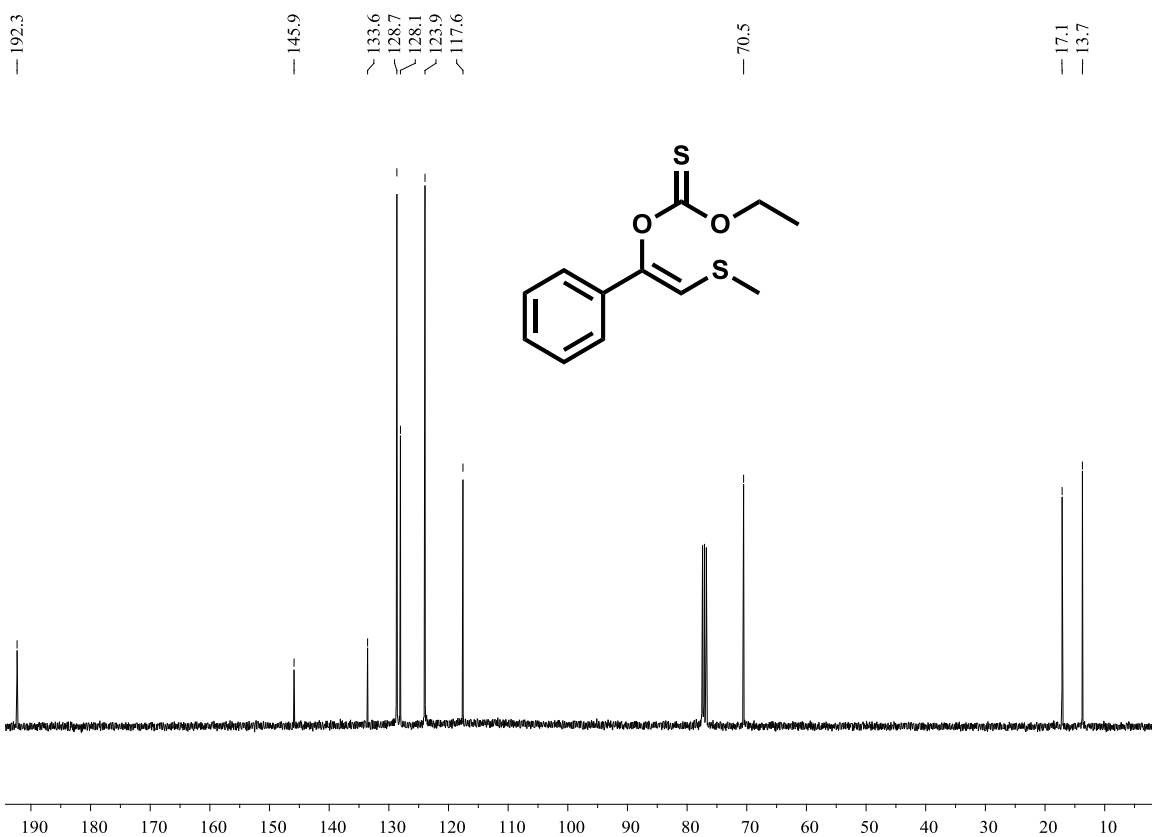




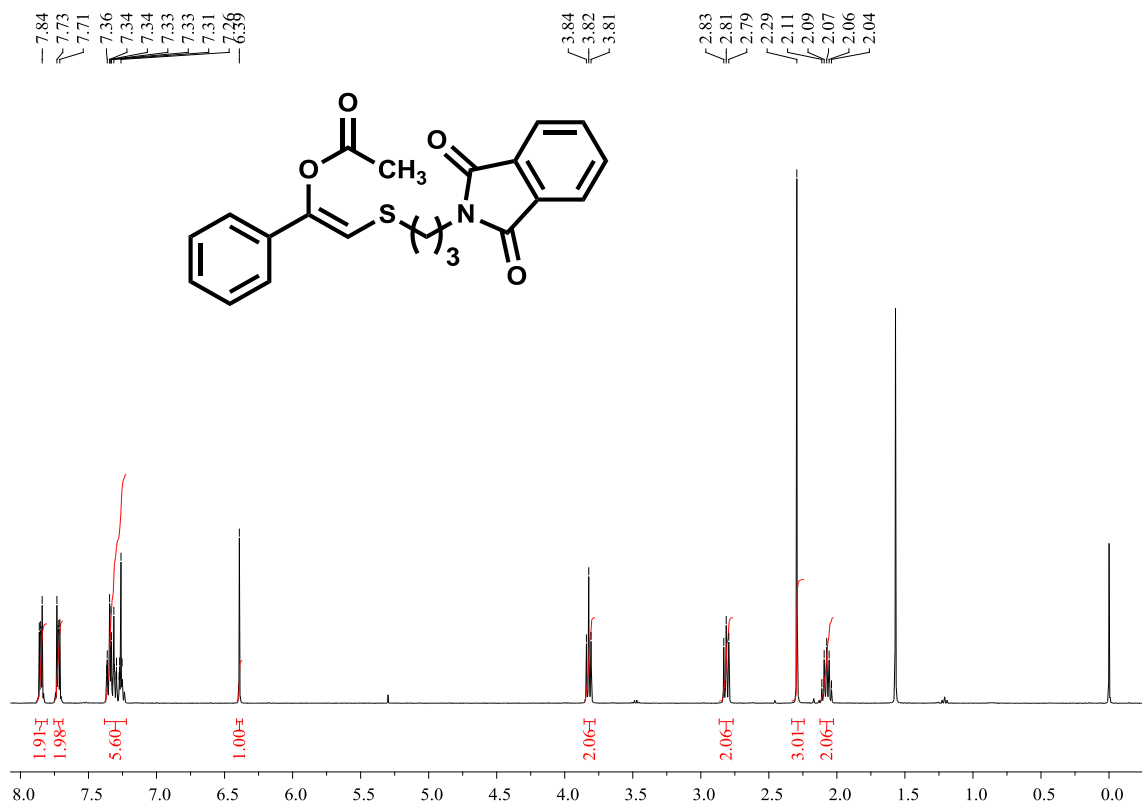
¹H NMR. (Z)-O-ethyl-O-(2-(methylthio)-1-phenylvinyl) carbonothioate (13)



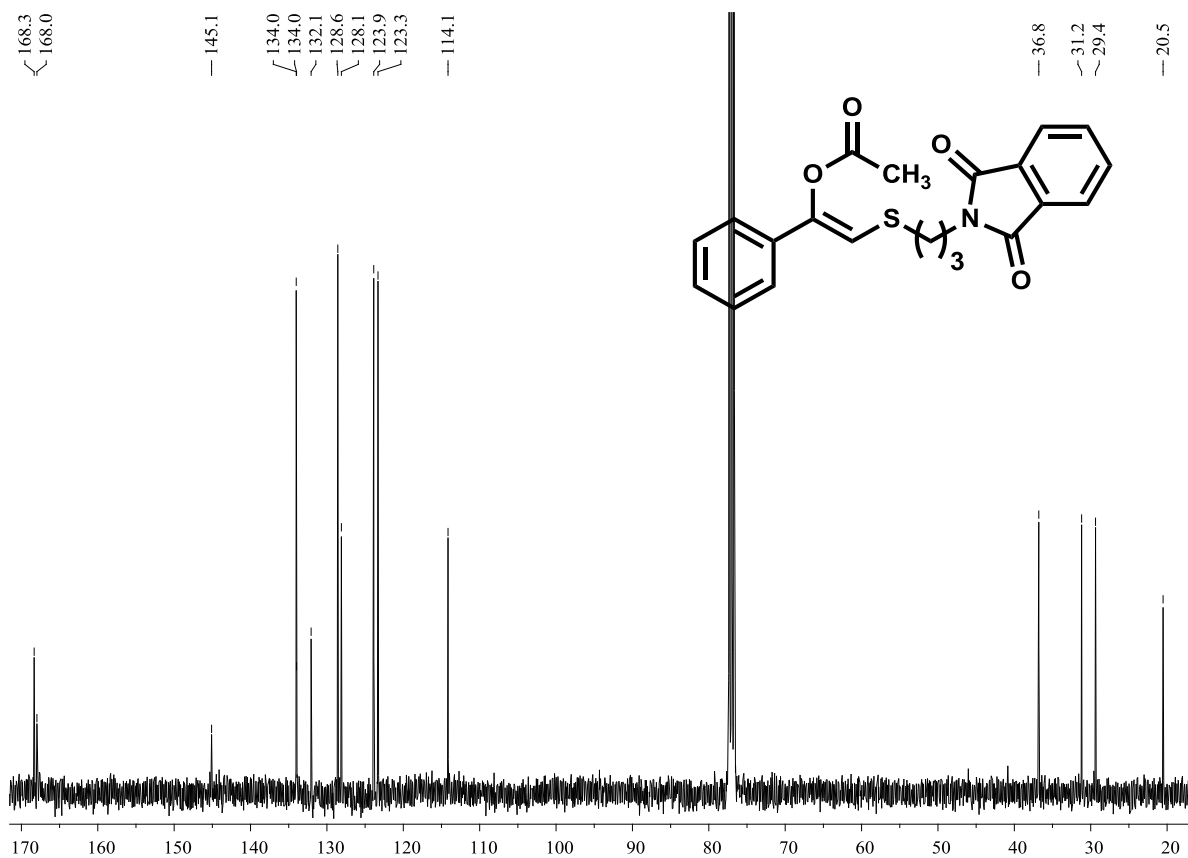
¹³C NMR. (Z)-O-ethyl-O-(2-(methylthio)-1-phenylvinyl) carbonothioate (13)



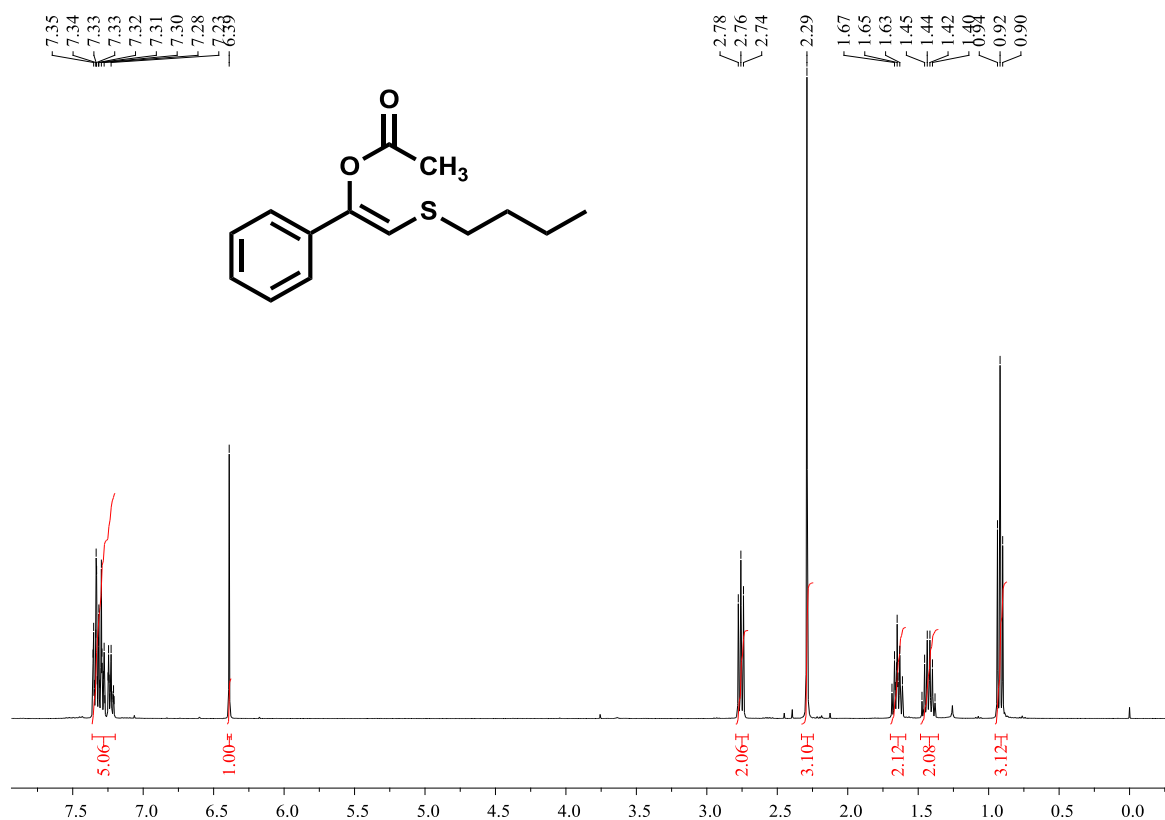
¹H NMR. (Z)-2-((3-(1,3-dioxoisindolin-2-yl)propyl)thio)-1-phenylvinyl acetate (14)



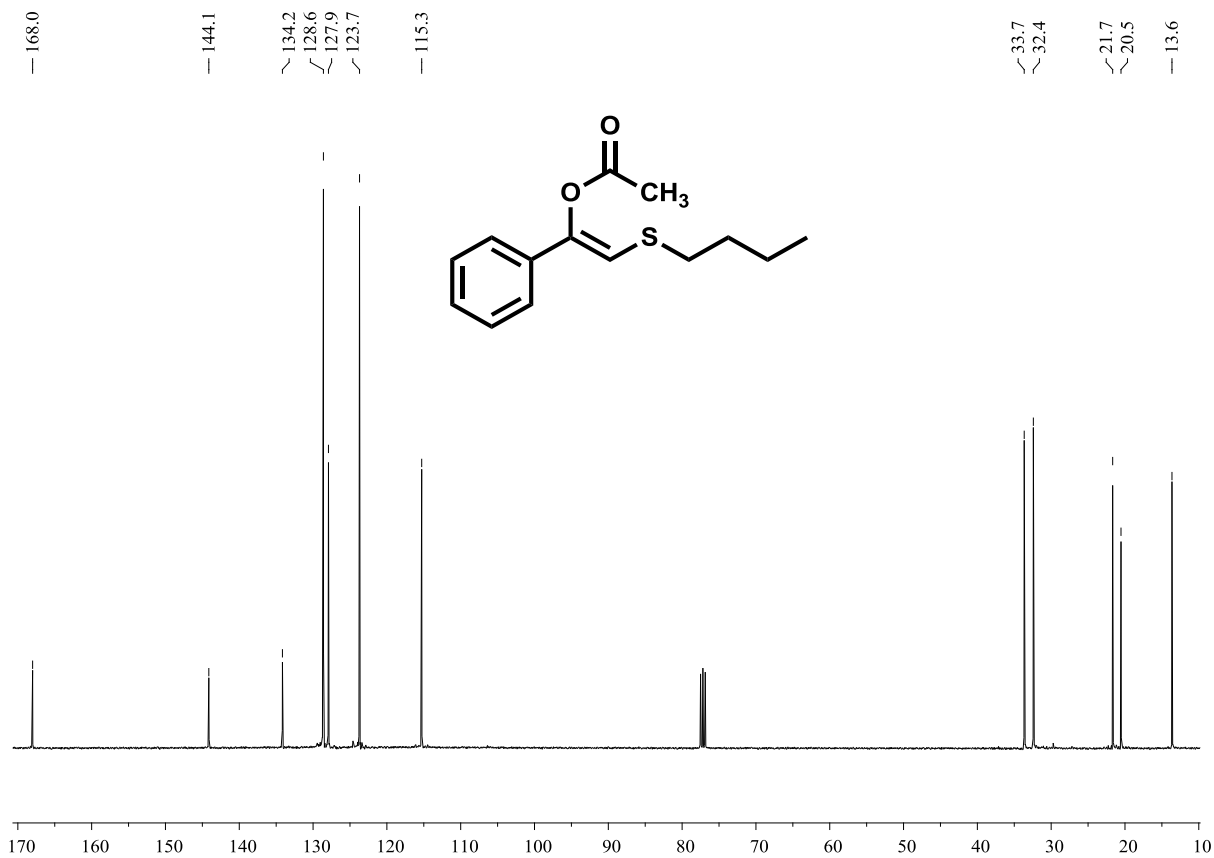
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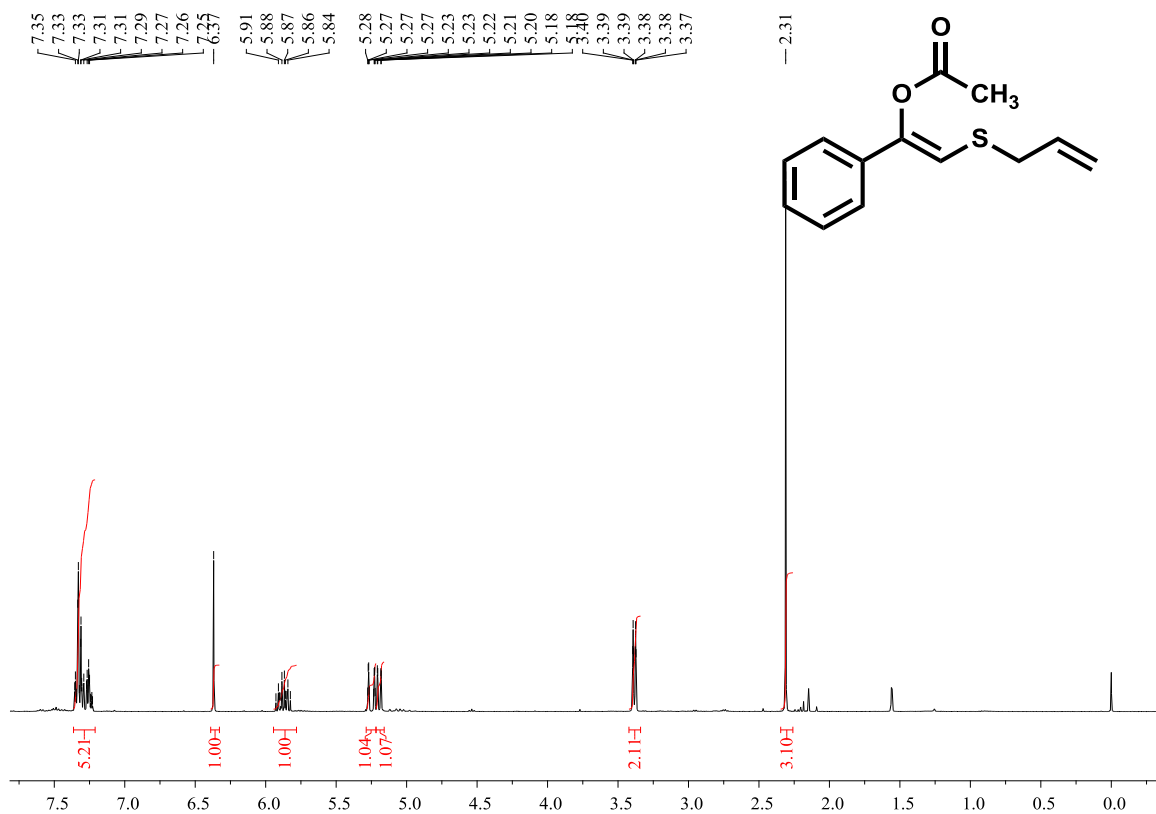
¹H NMR. (Z)-2-(butylthio)-1-phenylvinyl acetate (15)



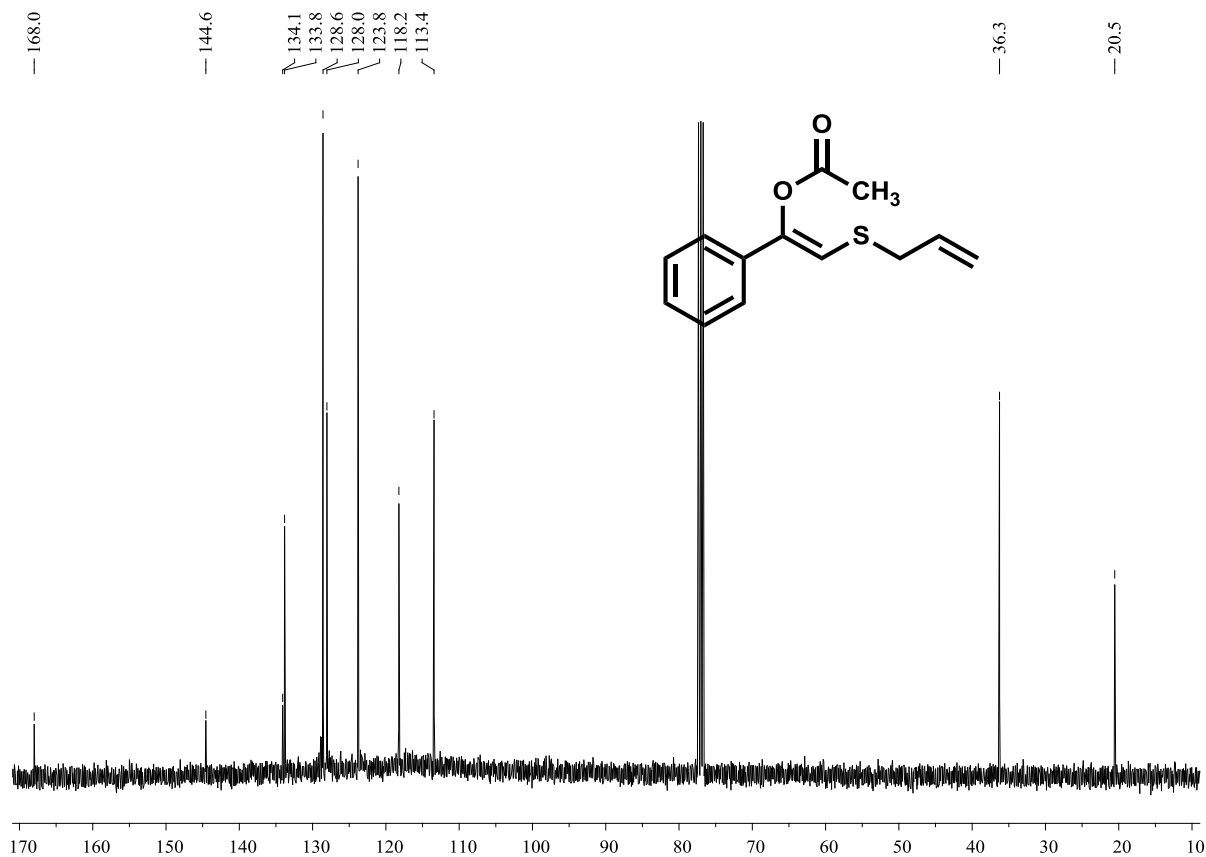
¹³C NMR. (Z)-2-(butylthio)-1-phenylvinyl acetate (15)



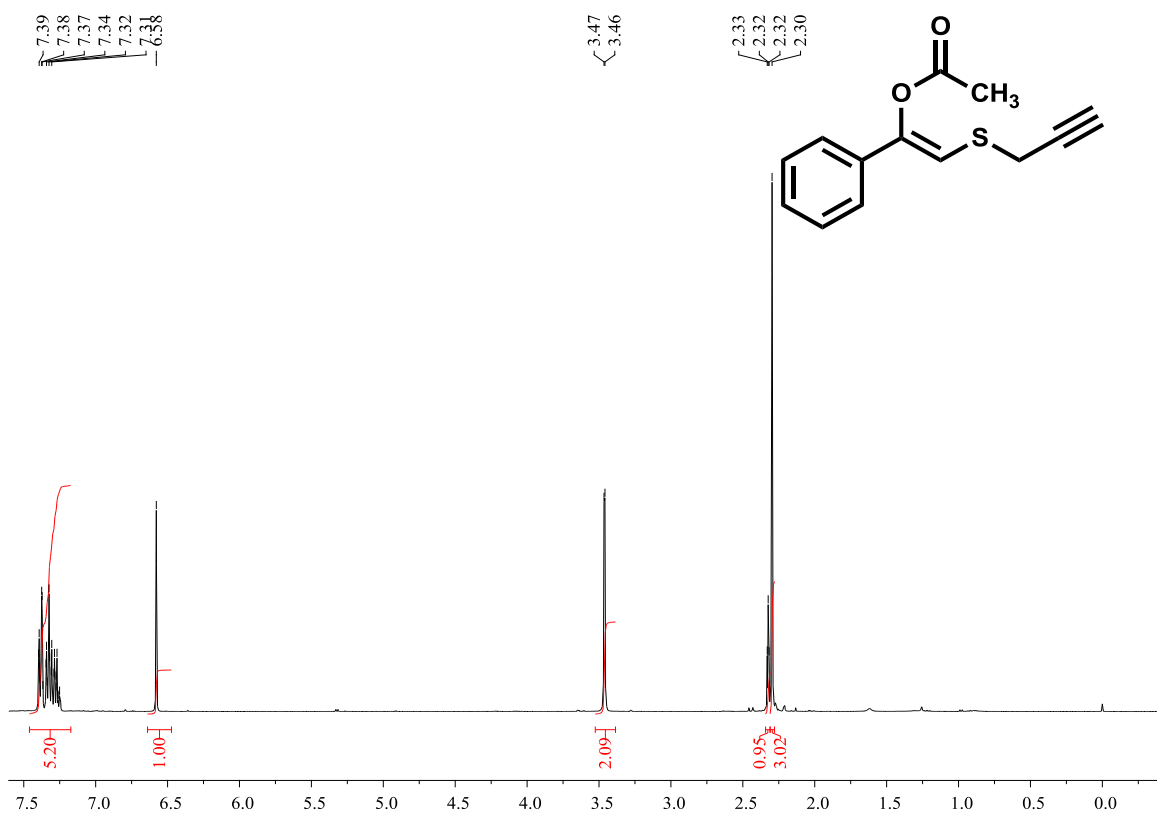
¹H NMR. (Z)-2-(allylthio)-1-phenylvinyl acetate (16)



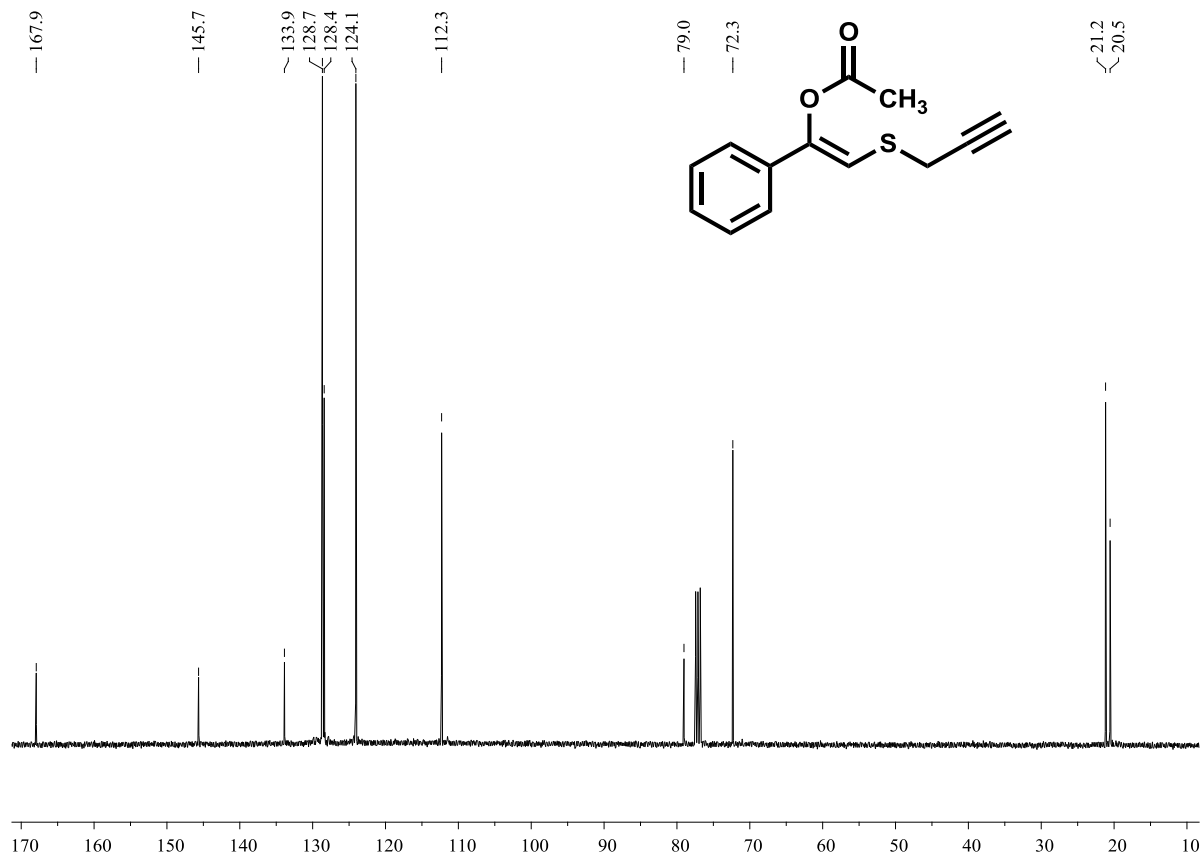
¹³C NMR. (Z)-2-(allylthio)-1-phenylvinyl acetate (16)



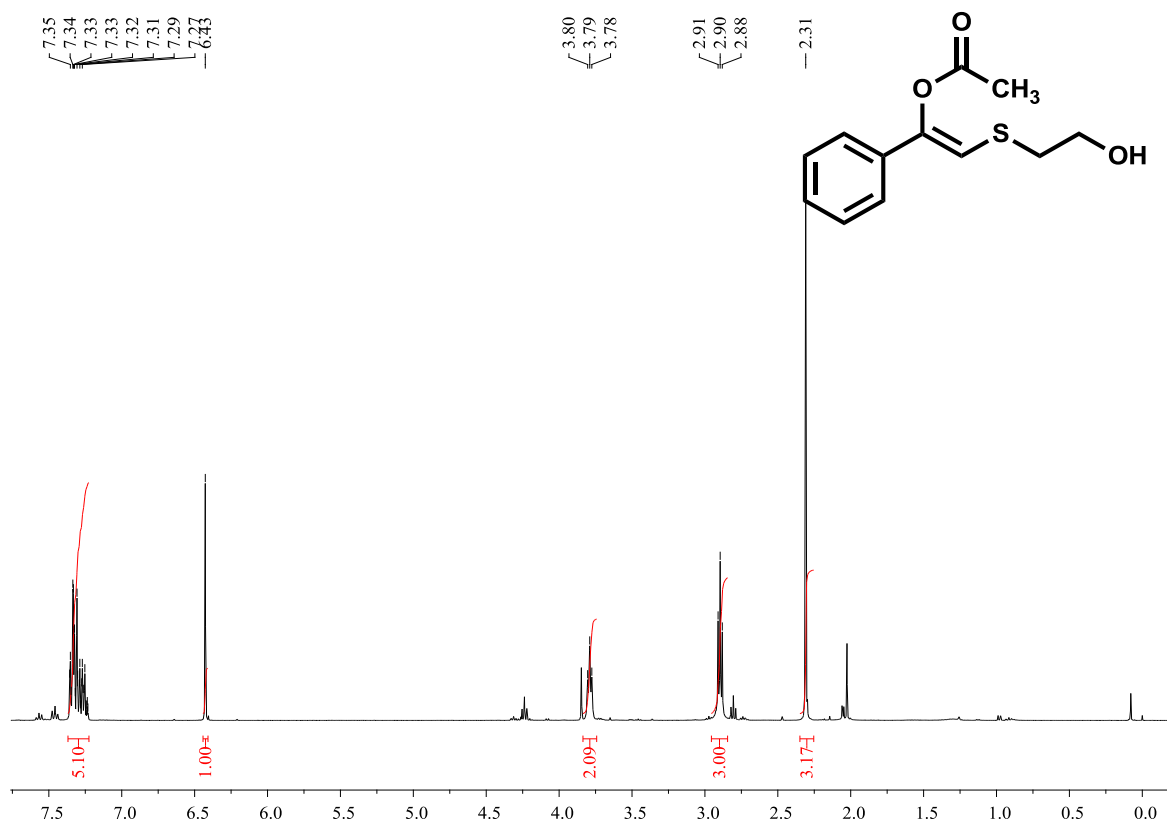
¹H NMR. (Z)-1-phenyl-2-(prop-2-yn-1-ylthio)vinyl acetate (17)



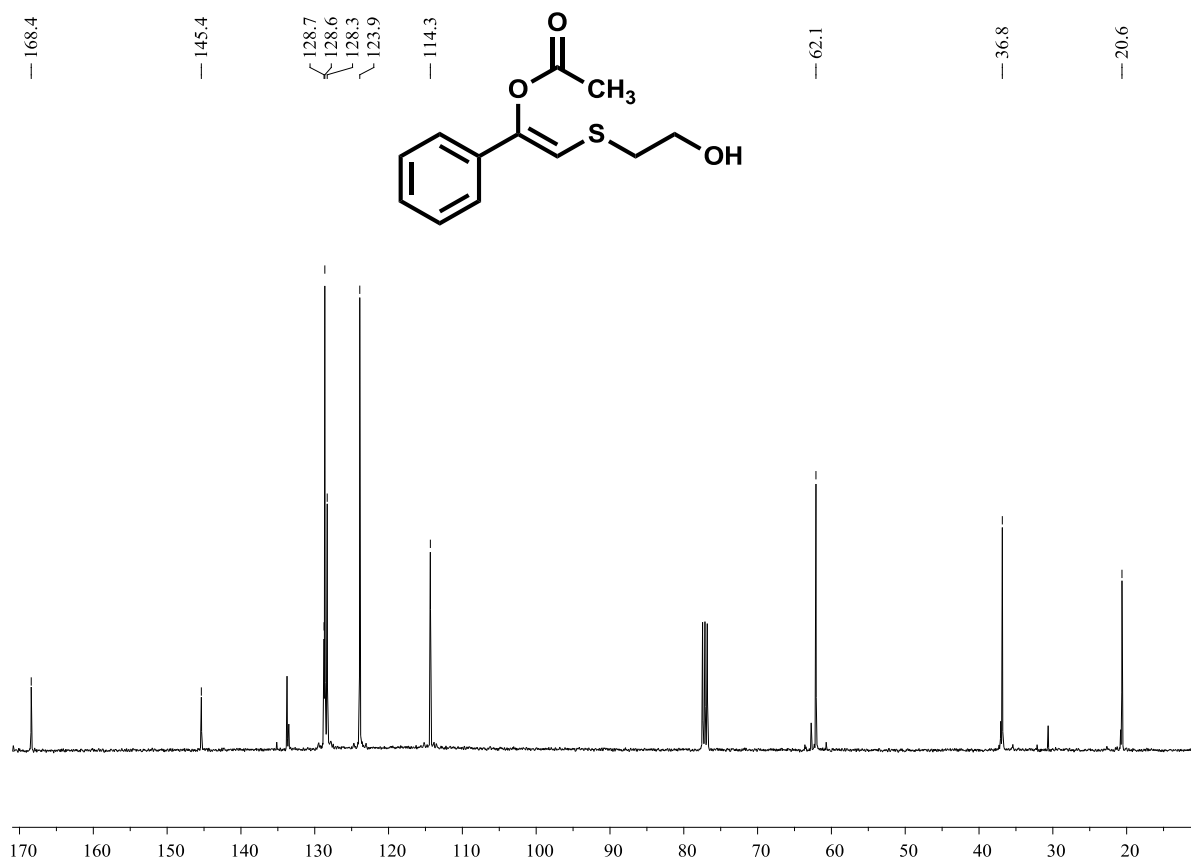
¹³C NMR. (Z)-1-phenyl-2-(prop-2-yn-1-ylthio)vinyl acetate (17)



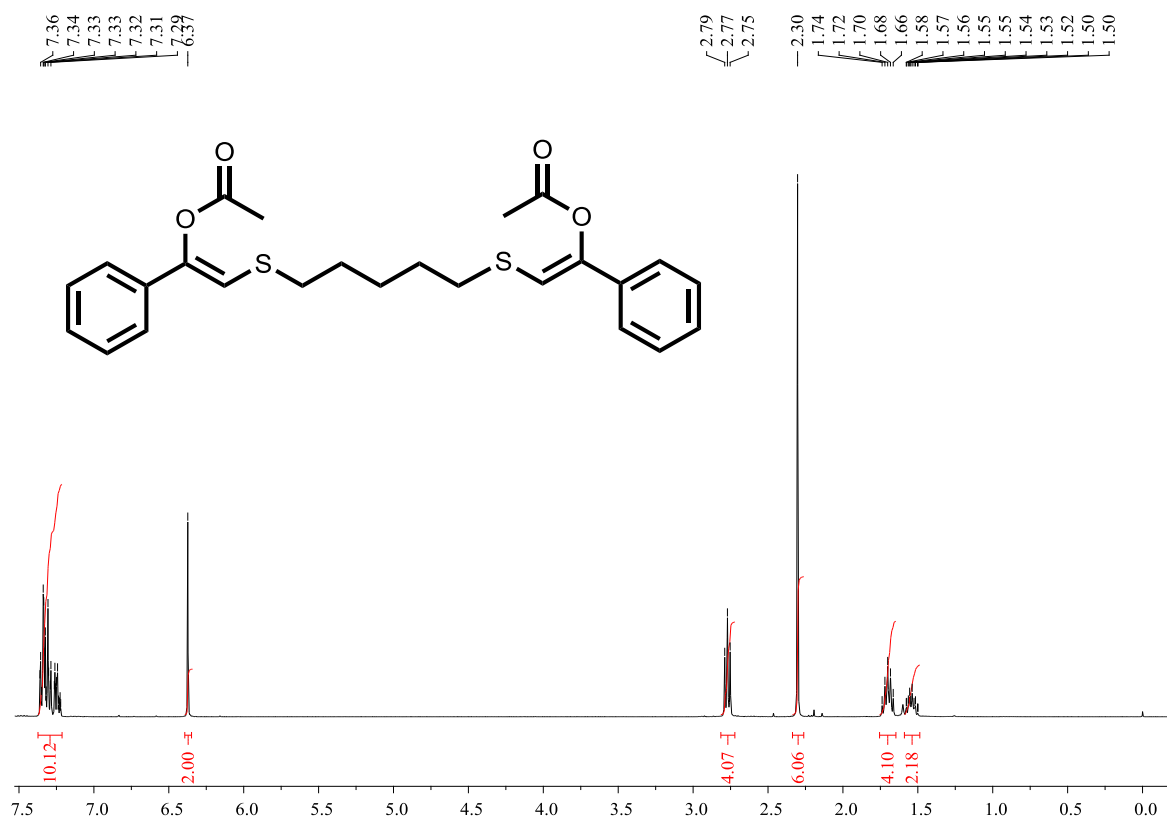
¹H NMR. (Z)-2-((2-hydroxyethyl)thio)-1-phenylvinyl acetate (18)



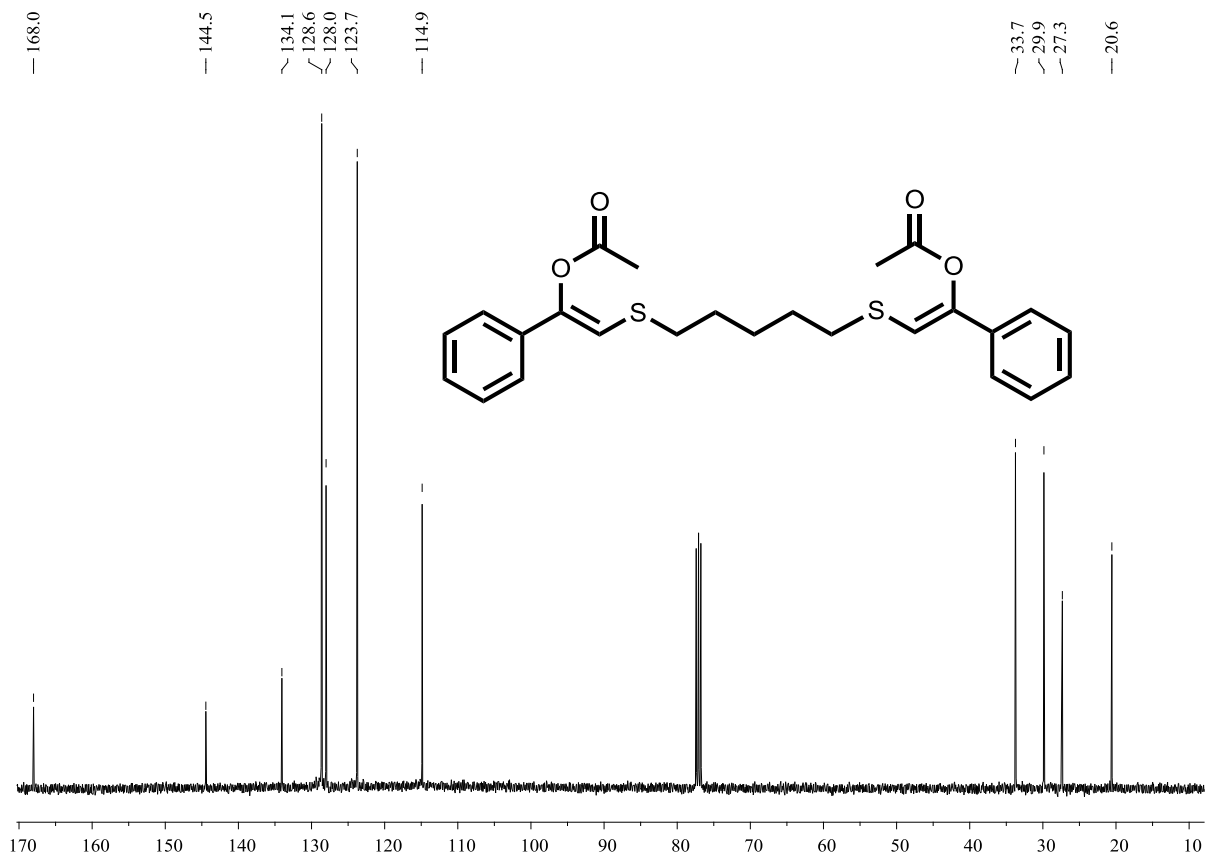
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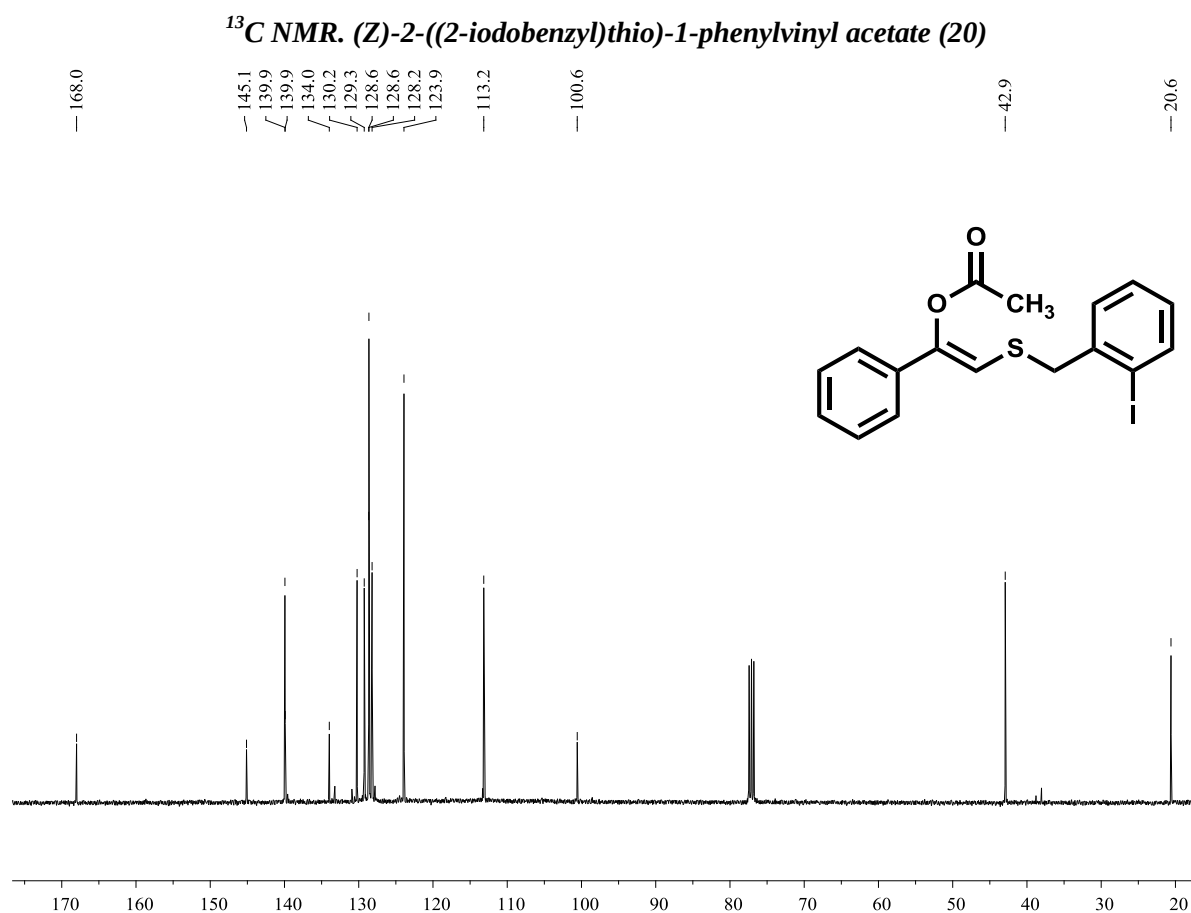
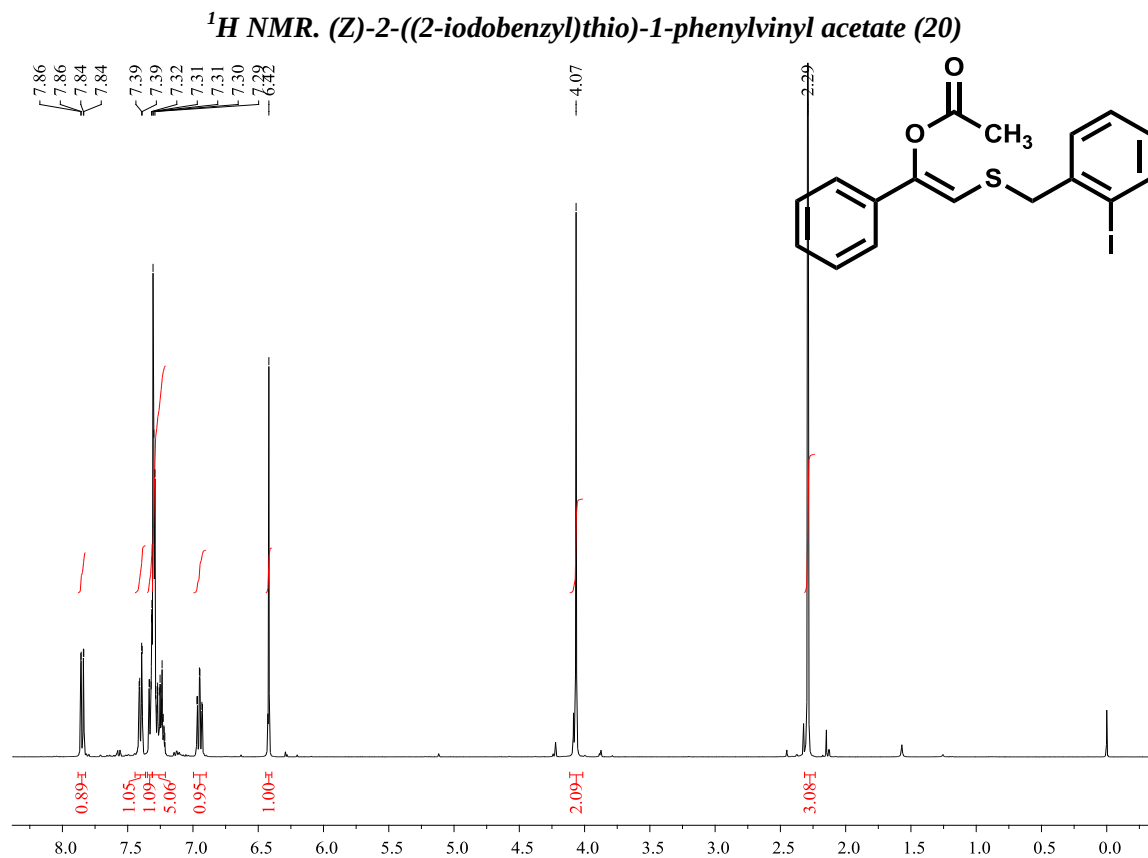


¹H NMR. (1Z,1'Z)-(pentane-1,5-diylbis(sulfanediyl))bis(1-phenylethene-2,1-diyl) diacetate (19)



¹³C NMR. (1Z,1'Z)-(pentane-1,5-diylbis(sulfanediyl))bis(1-phenylethene-2,1-diyl) diacetate (19)

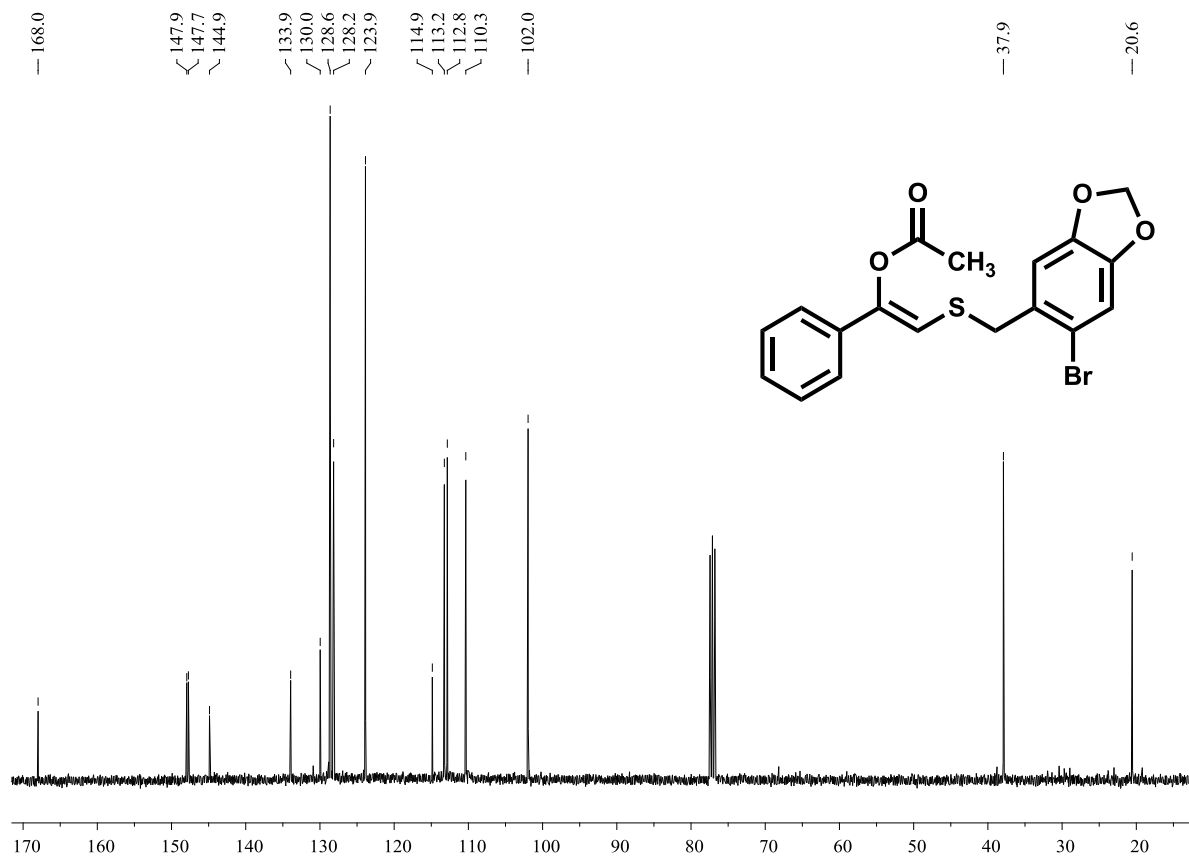




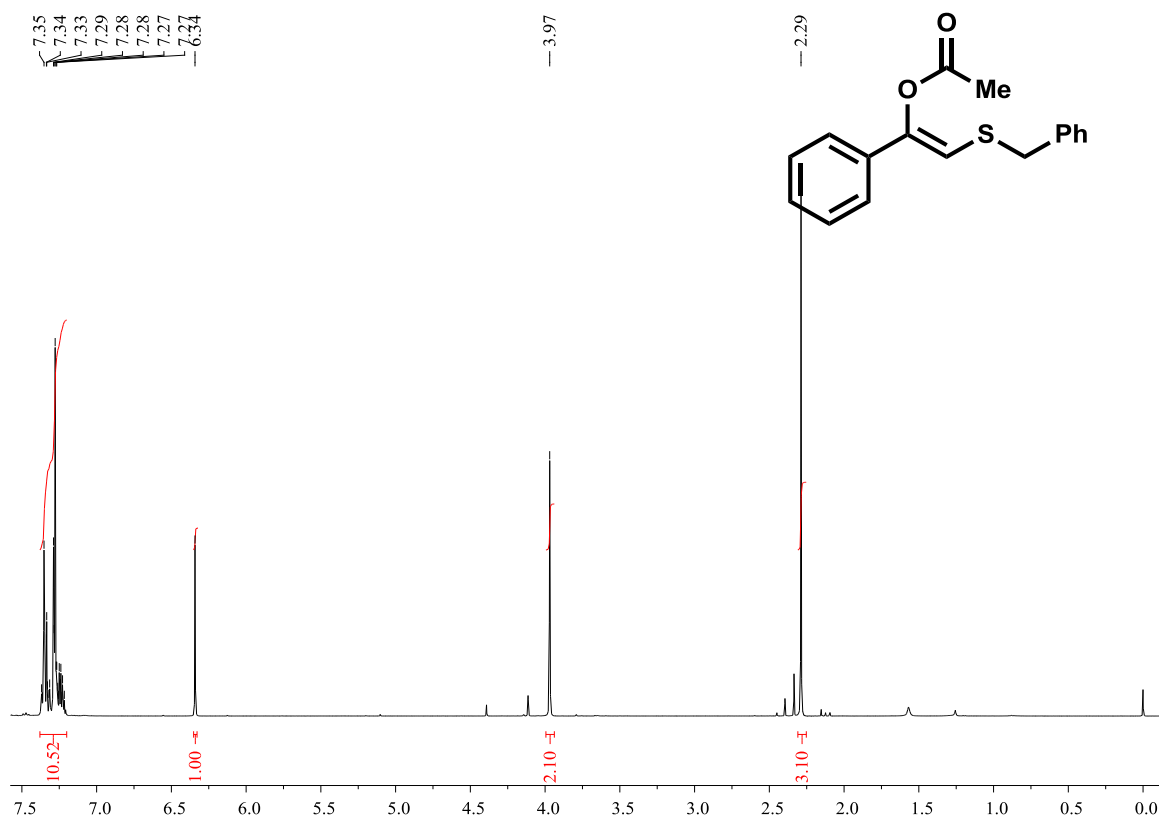
¹H NMR. (Z)-2-(((6-bromobenzo[d][1,3]dioxol-5-yl)methyl)thio)-1-phenylvinyl acetate (21)



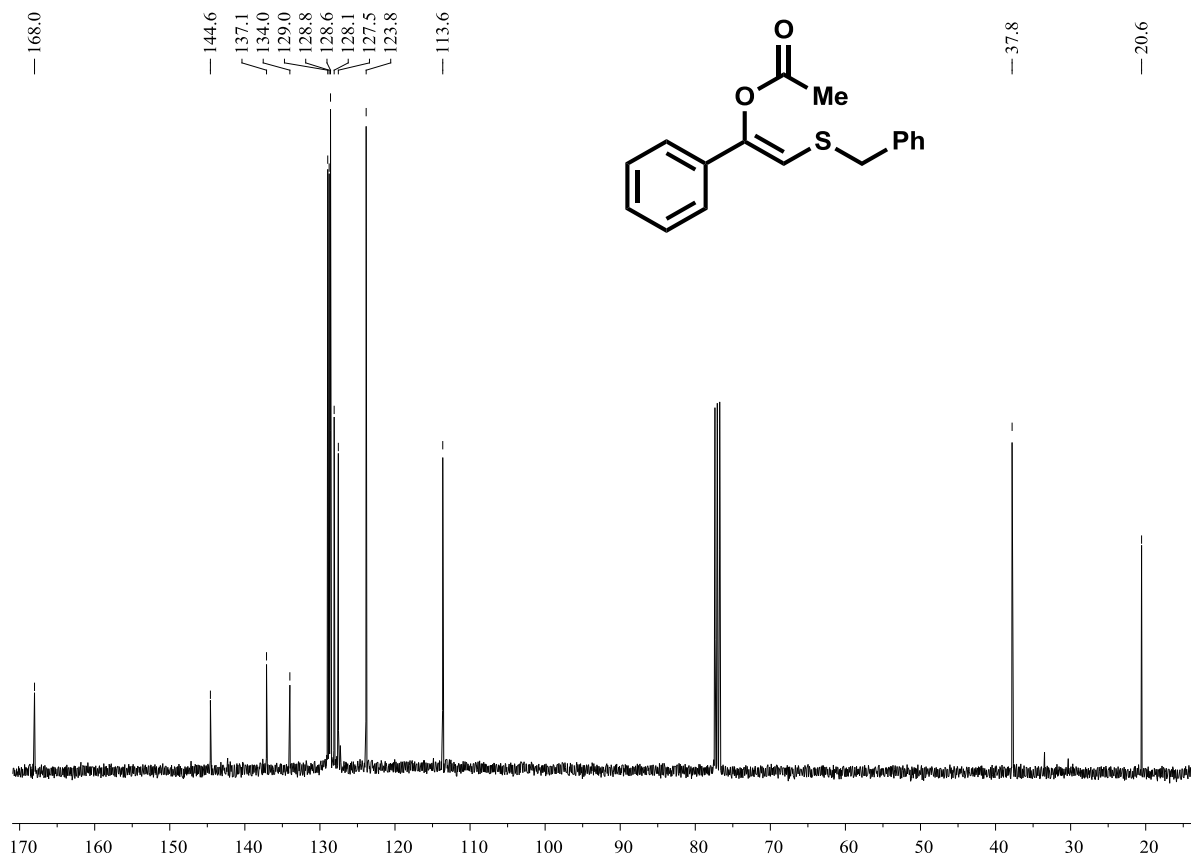
¹³C NMR. (Z)-2-(((6-bromobenzo[d][1,3]dioxol-5-yl)methyl)thio)-1-phenylvinyl acetate (21)



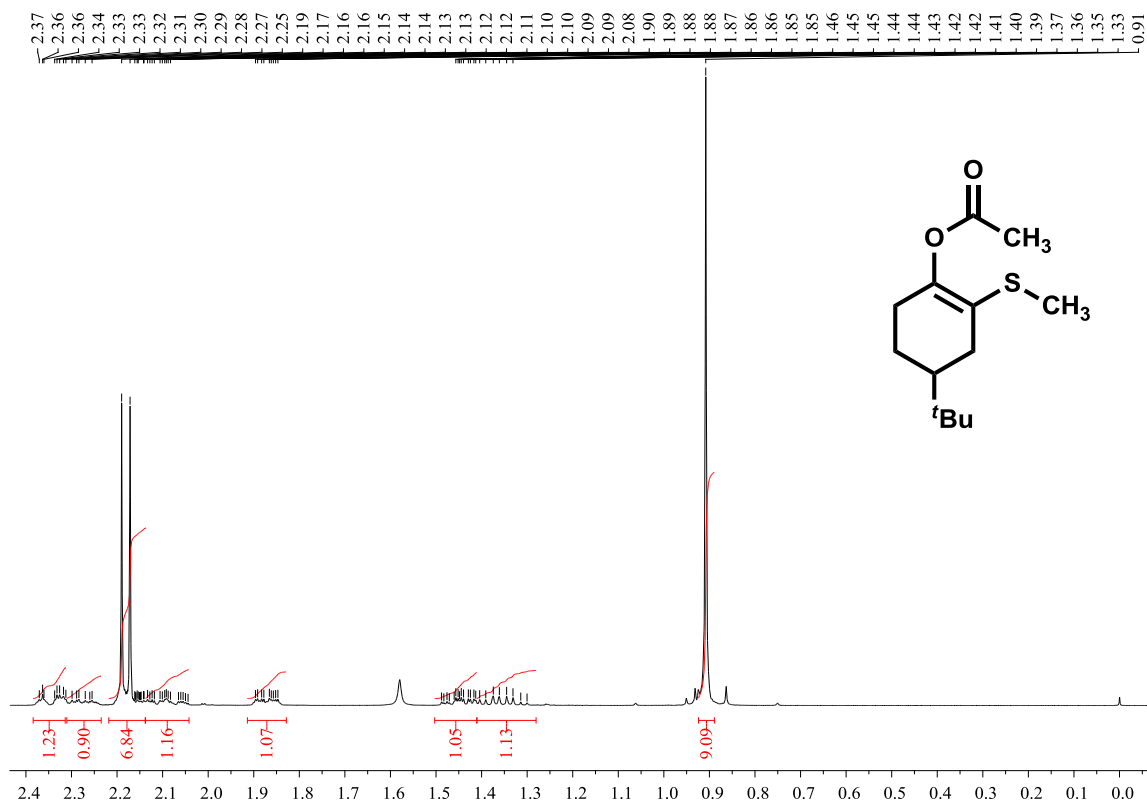
¹H NMR. (Z)-2-(benzylthio)-1-phenylvinyl acetate (22)



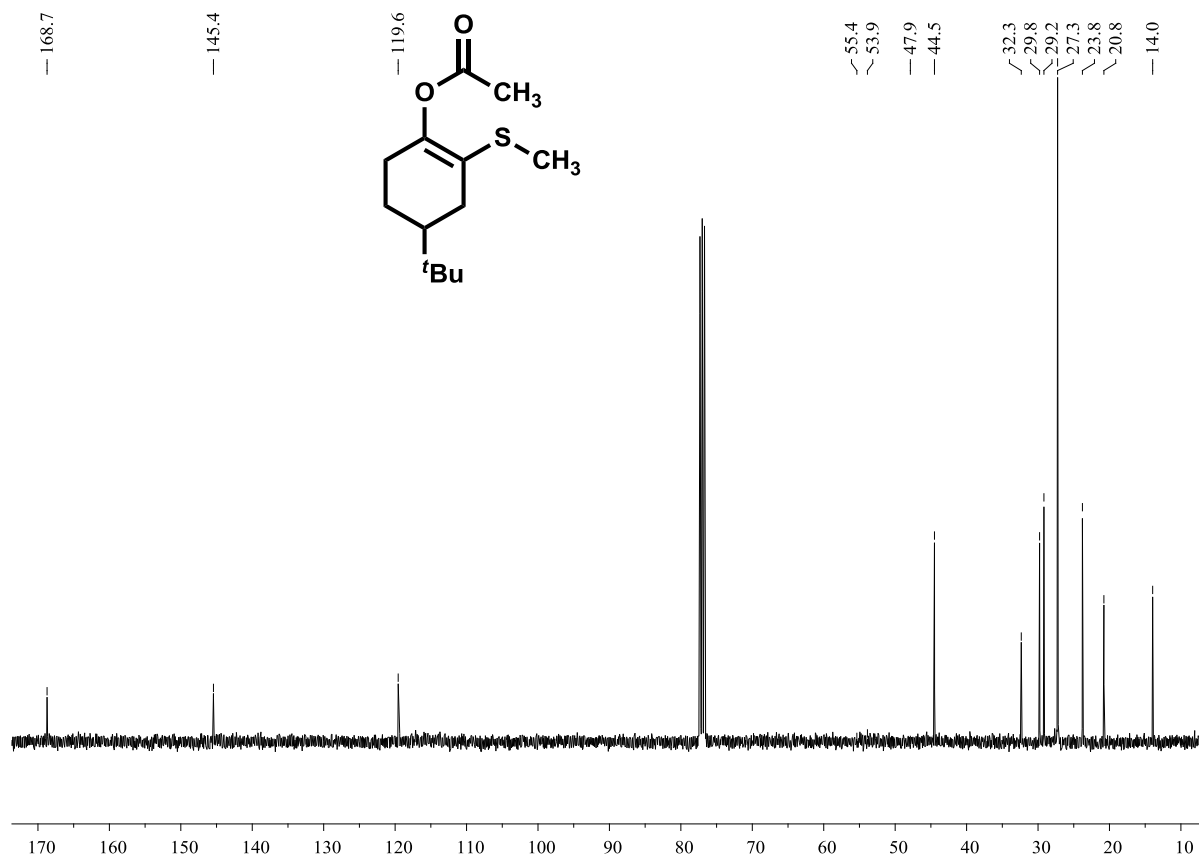
¹³C NMR. (Z)-2-(benzylthio)-1-phenylvinyl acetate (22)



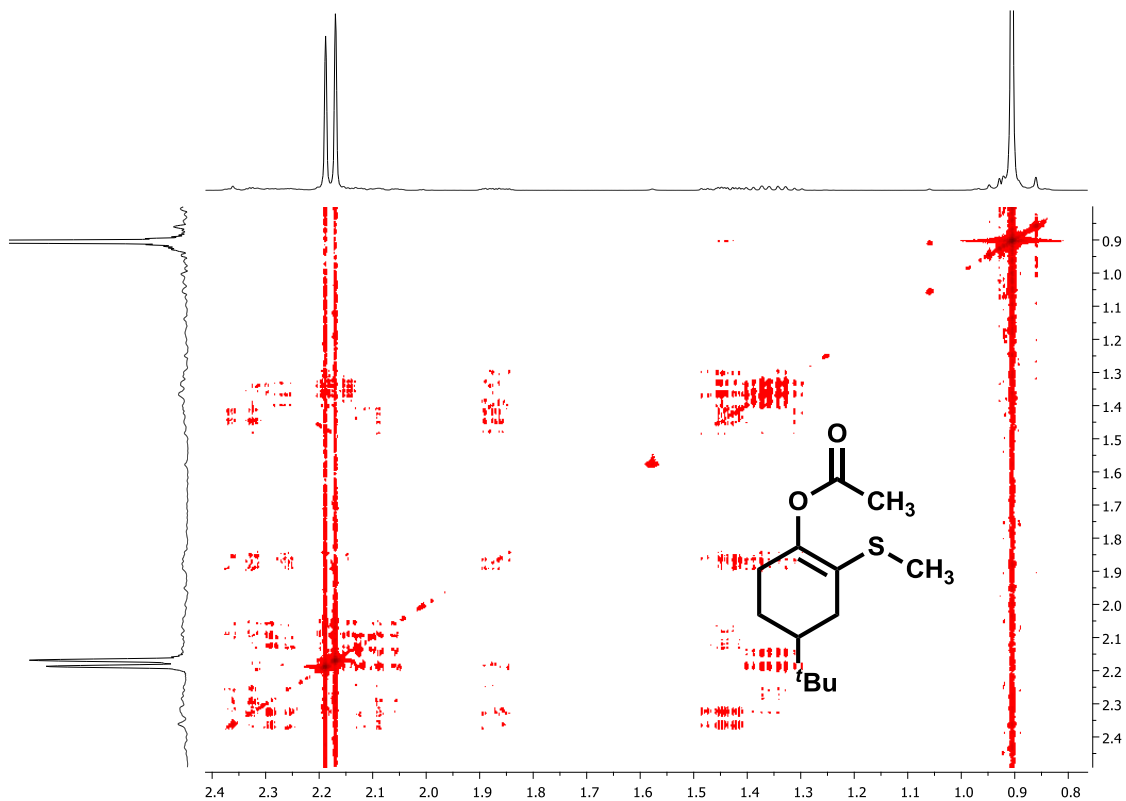
¹H NMR. 4-(tert-butyl)-2-(methylthio)cyclohex-1-en-1-yl acetate (23)



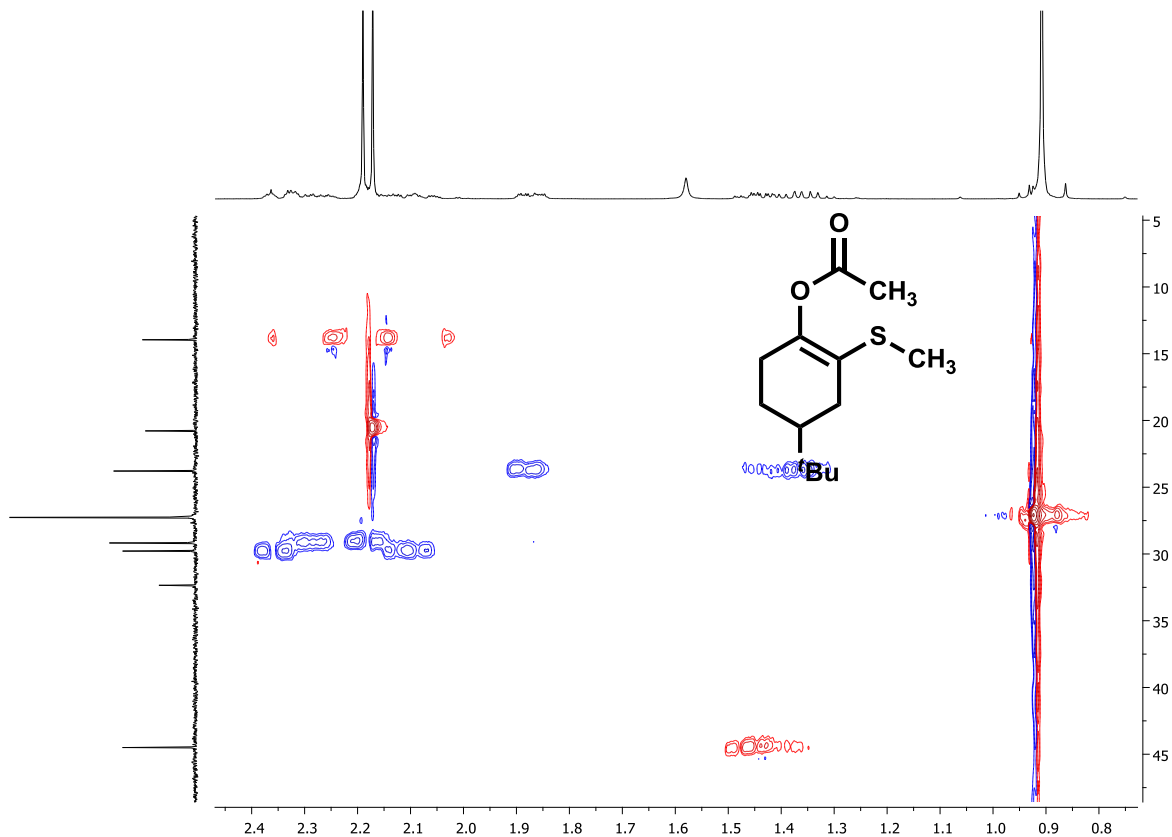
¹³C NMR. 4-(tert-butyl)-2-(methylthio)cyclohex-1-en-1-yl acetate (23)



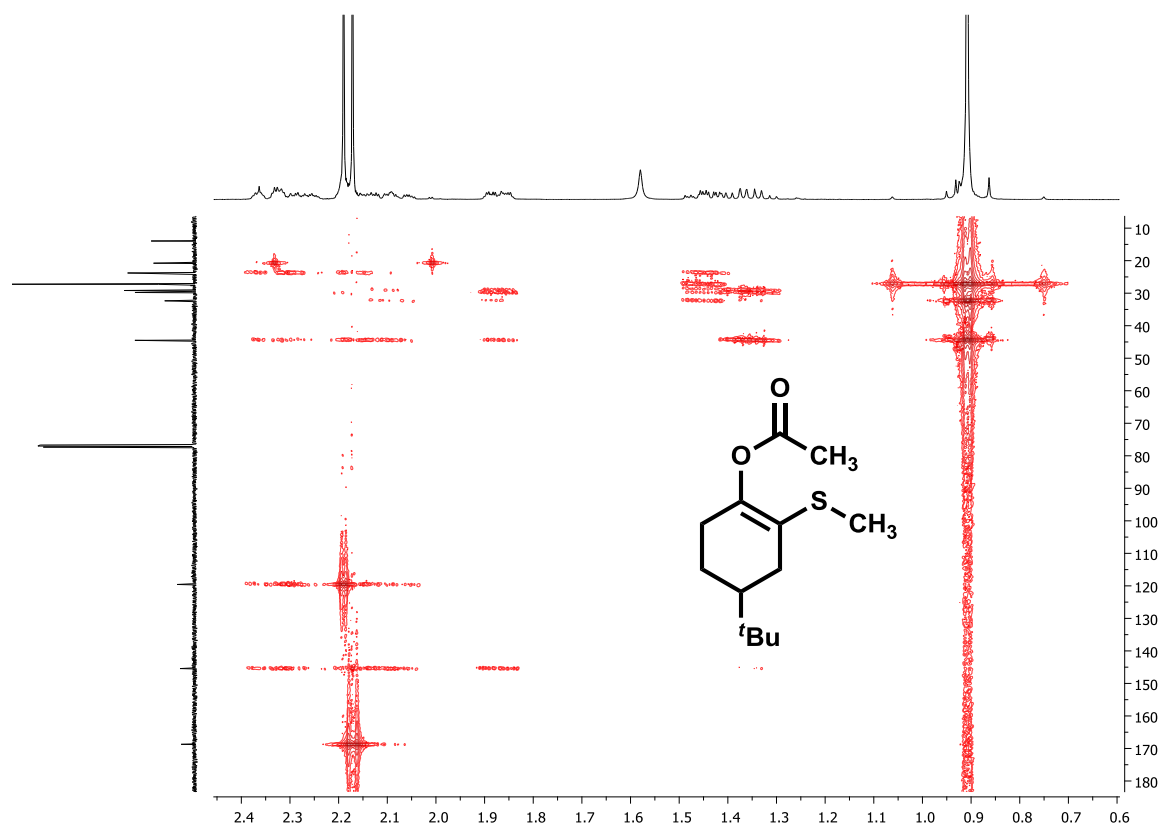
^1H - ^1H COSY NMR. 4-(*tert*-butyl)-2-(methylthio)cyclohex-1-en-1-yl acetate (23)



^1H - ^{13}C HSQC NMR. 4-(*tert*-butyl)-2-(methylthio)cyclohex-1-en-1-yl acetate (23)



^1H - ^{13}C HMBC NMR. 4-(*tert*-butyl)-2-(methylthio)cyclohex-1-en-1-yl acetate (23)



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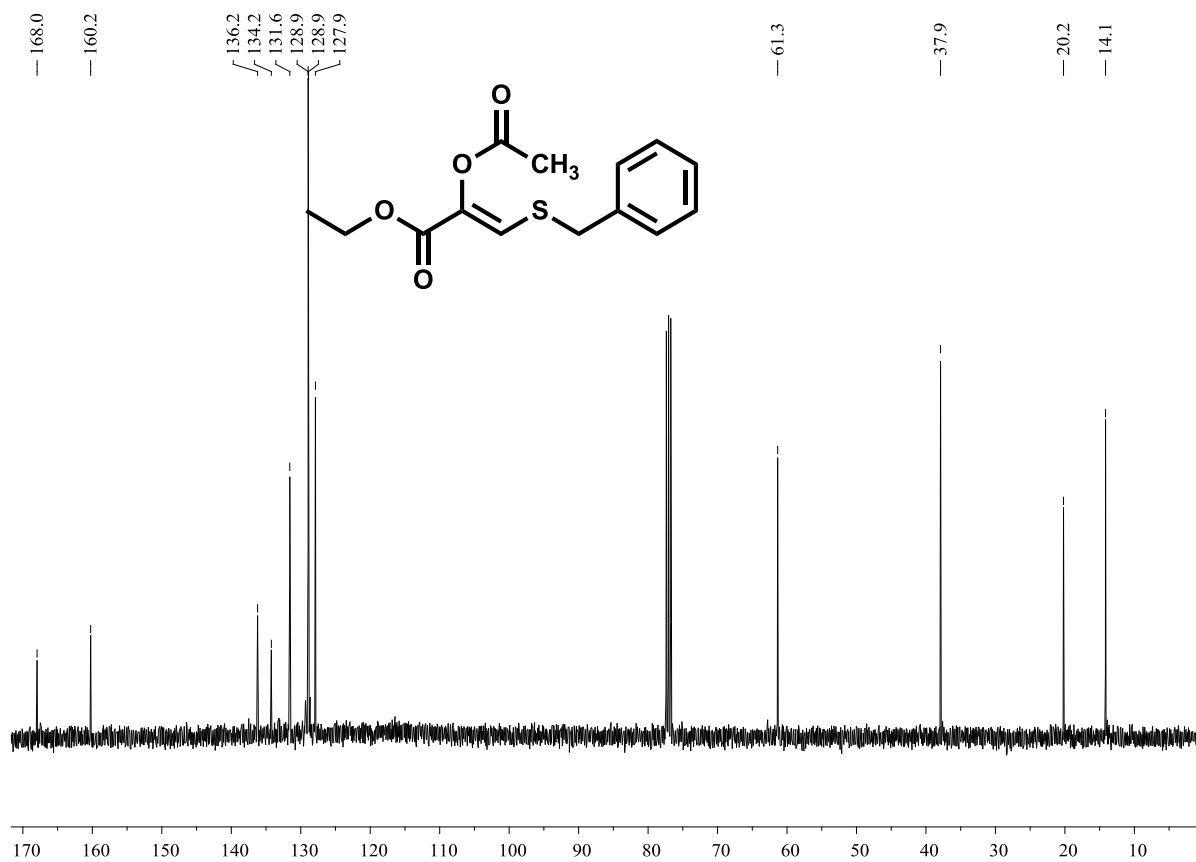
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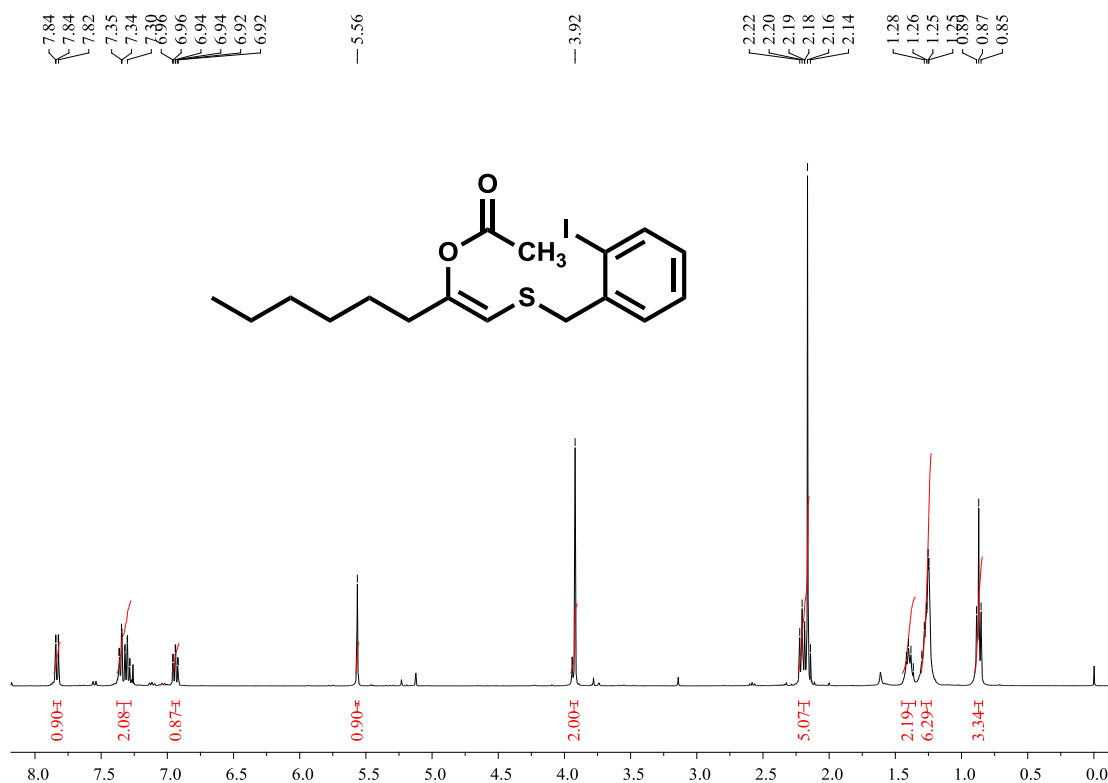
¹H NMR. (Z)-ethyl-2-acetoxy-3-(benzylthio)acrylate (24)



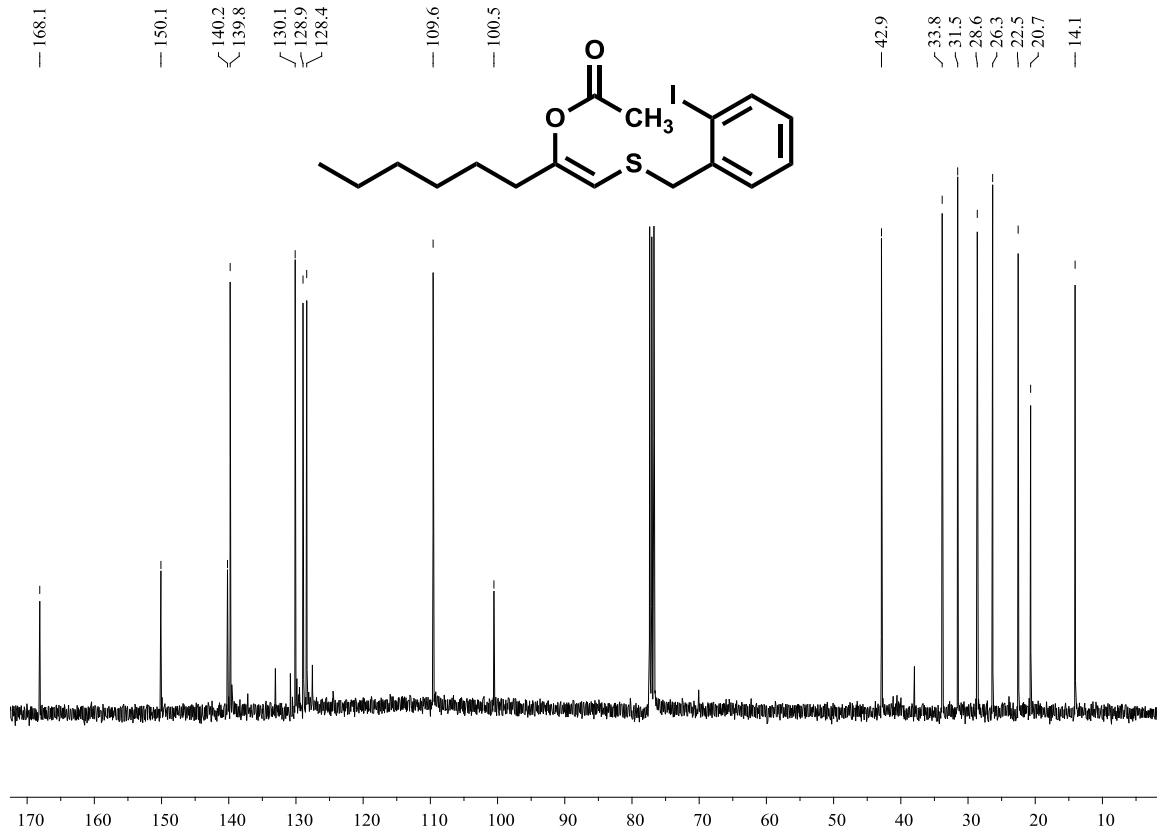
¹³C NMR. (Z)-ethyl-2-acetoxy-3-(benzylthio)acrylate (24)



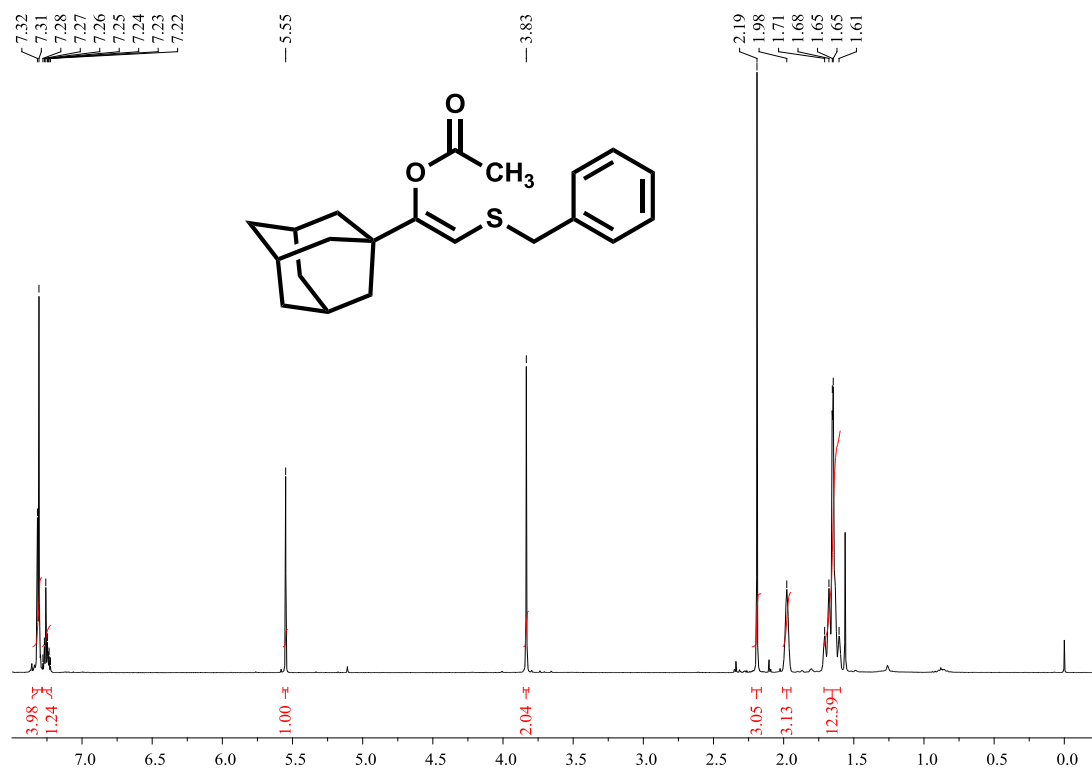
¹H NMR. (Z)-1-((2-iodobenzyl)thio)oct-1-en-2-yl acetate (25)



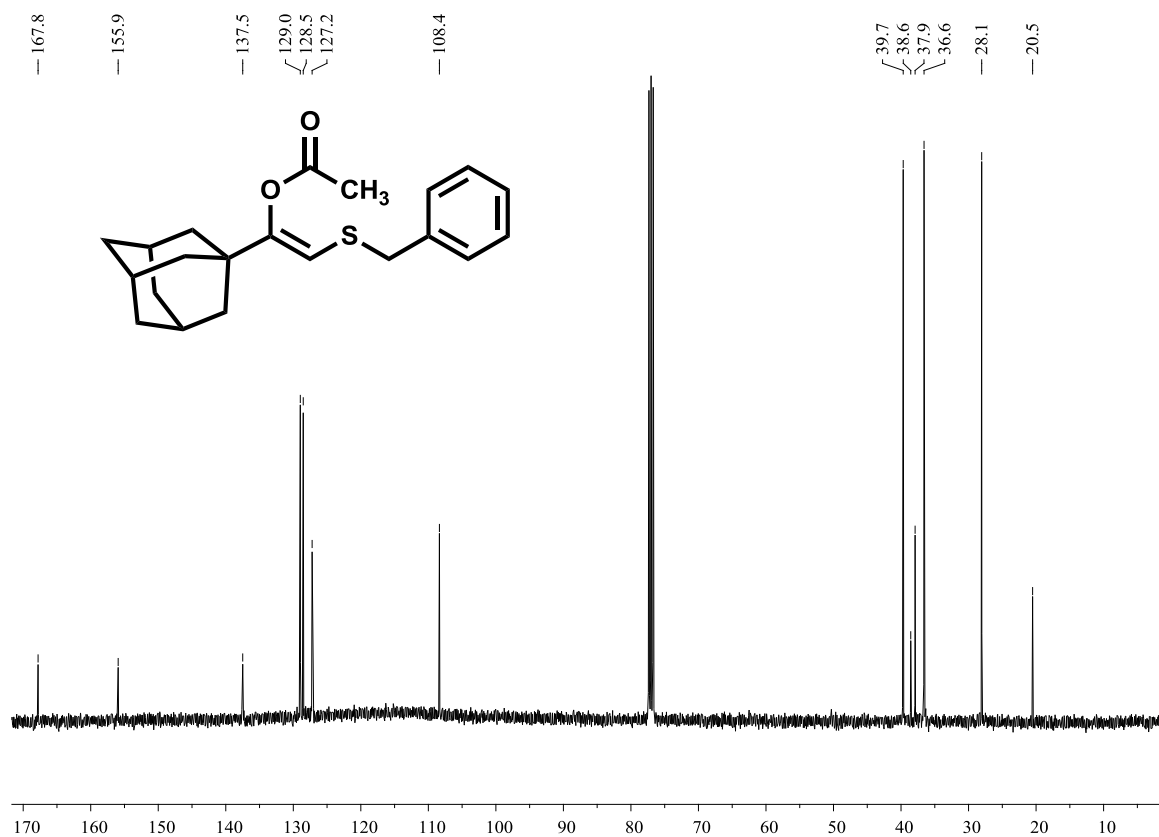
¹³C NMR. (Z)-1-((2-iodobenzyl)thio)oct-1-en-2-yl acetate (25)

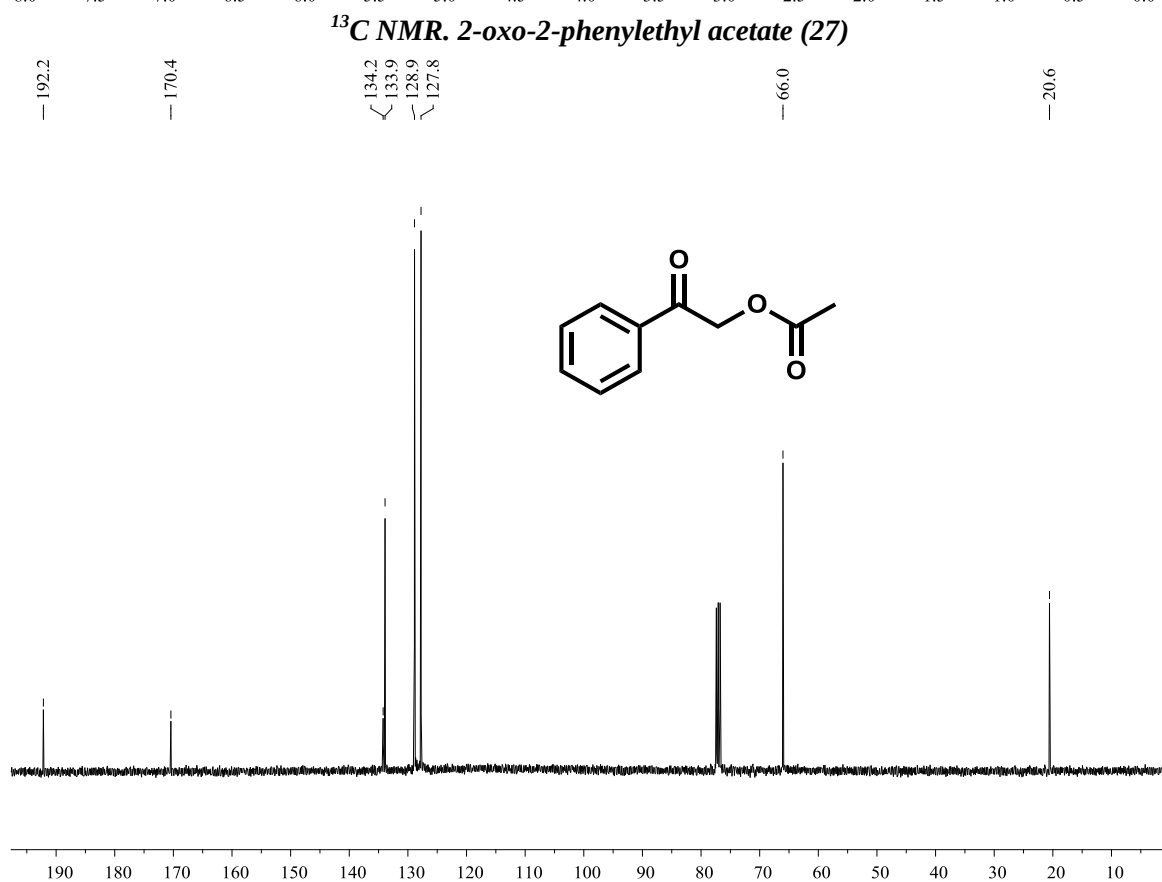
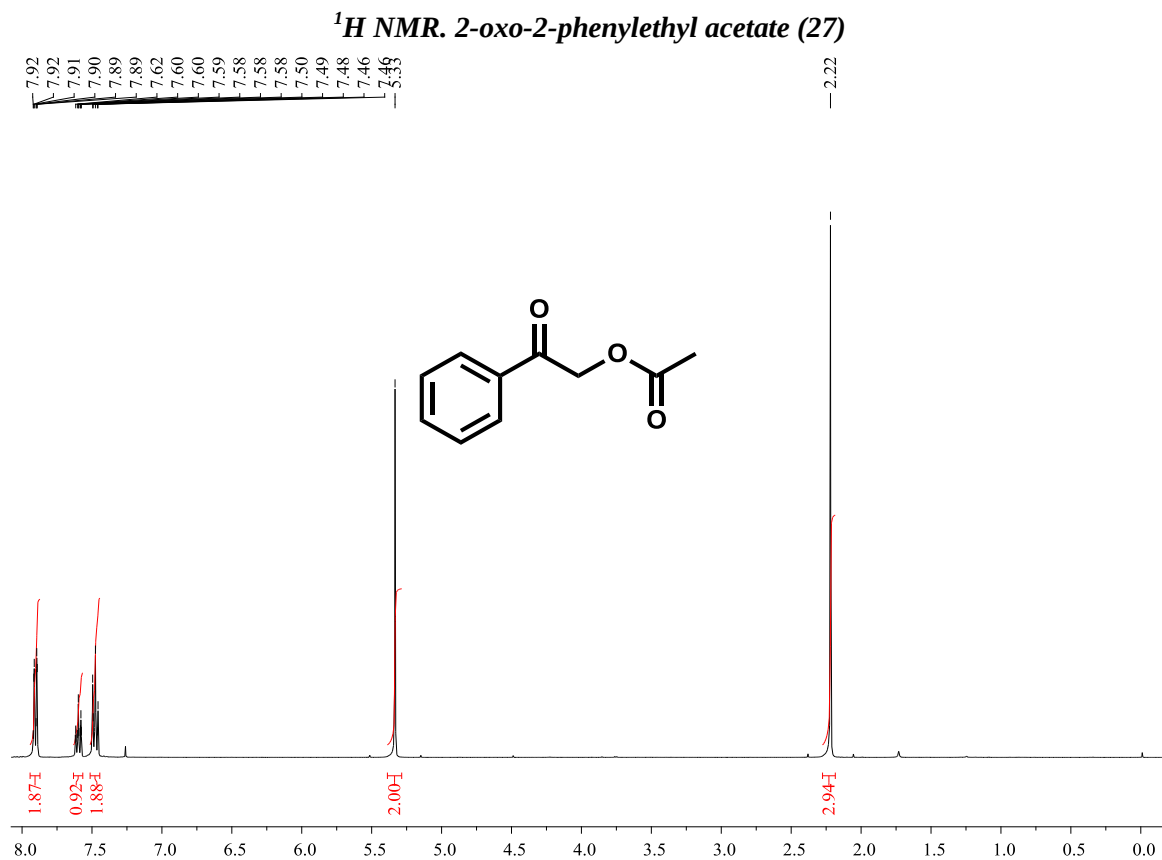


¹H NMR. (Z)-1-((3*r*,5*r*,7*r*)-adamantan-1-yl)-2-(benzylthio)vinyl acetate (26)

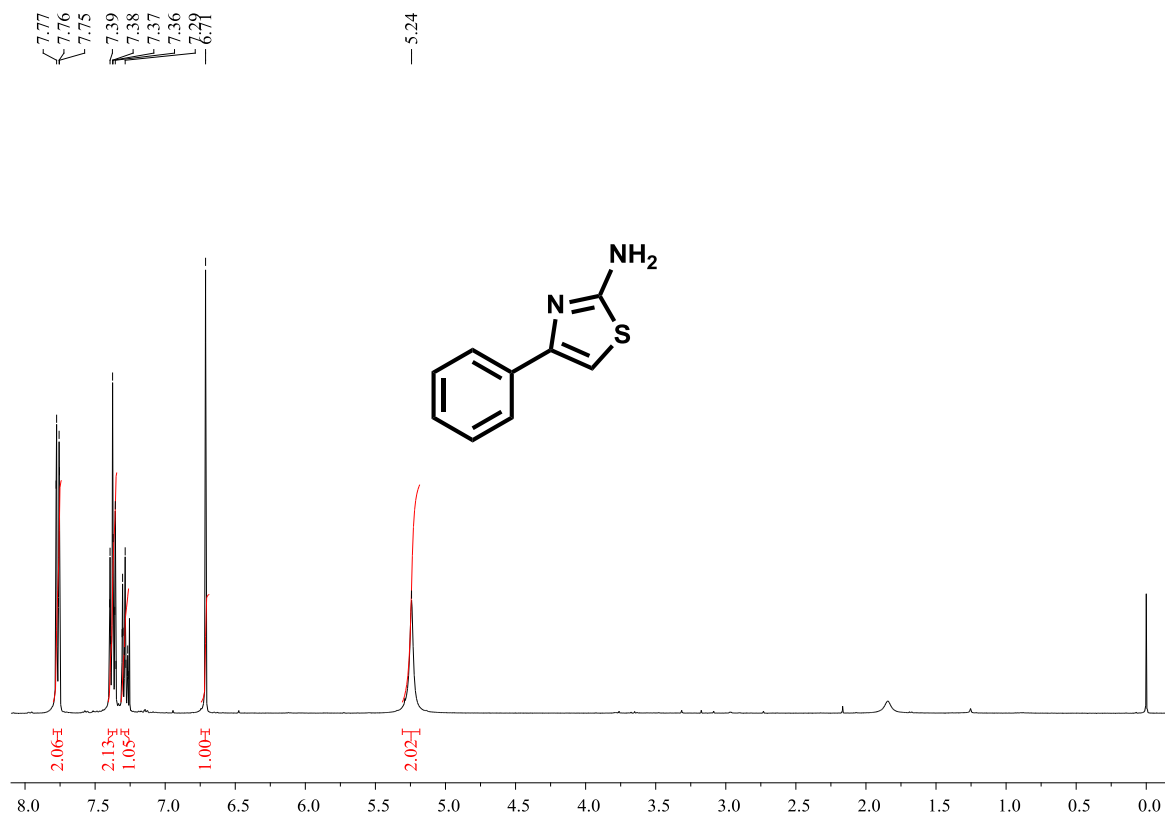


¹³C NMR. (Z)-1-((3*r*,5*r*,7*r*)-adamantan-1-yl)-2-(benzylthio)vinyl acetate (26)





¹H NMR. 4-phenylthiazol-2-amine (28)



¹³C NMR. 4-phenylthiazol-2-amine (28)

