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Supporting Information

Stereoselective Synthesis of Alkyl Styryl Selenides in One-Pot: A Straightforward Approach by *in situ* Dialkyl Diselenide Formation under Transition Metal-Free Conditions

*Adrián A. Heredia and Alicia B. Peñéñory**

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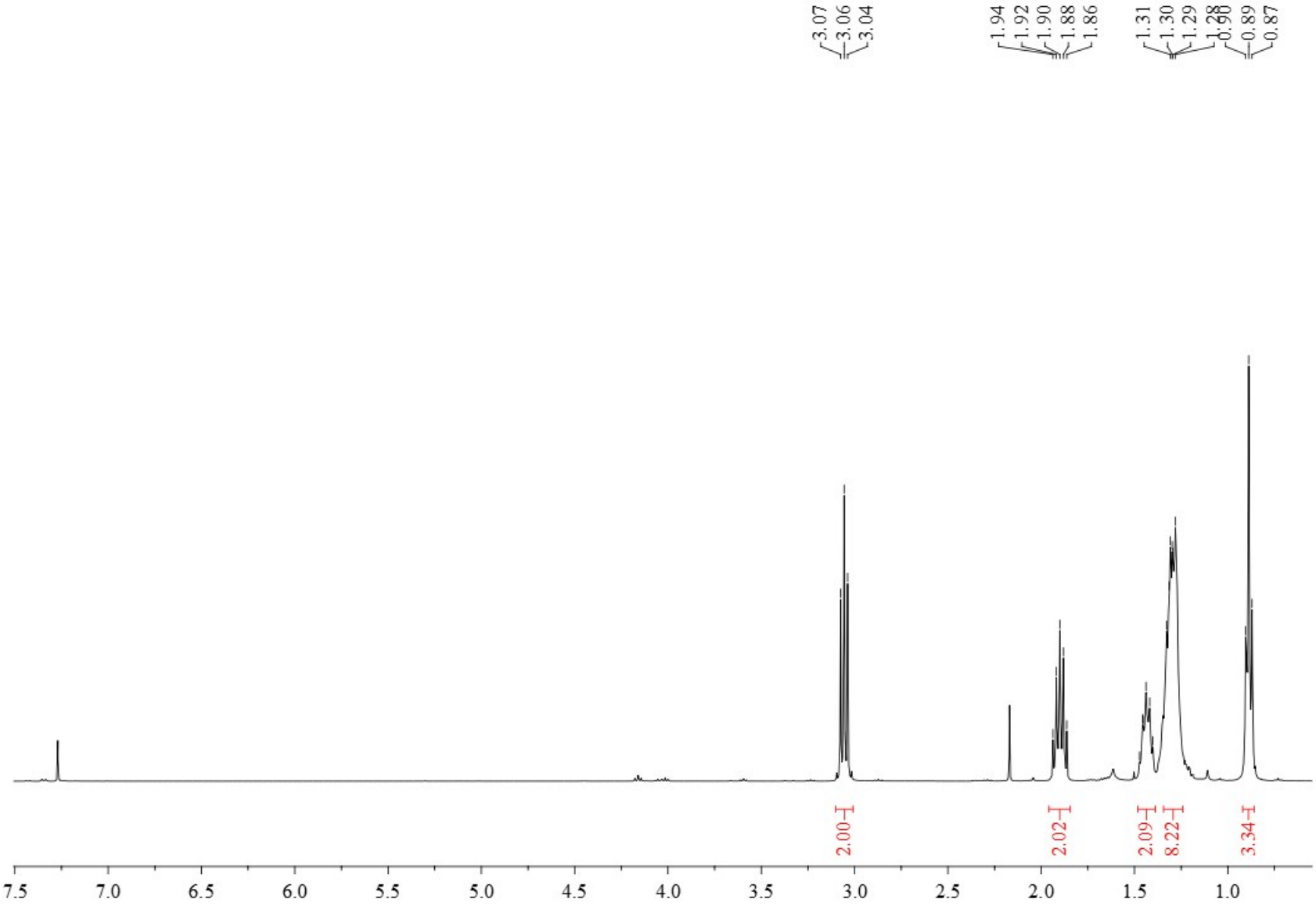
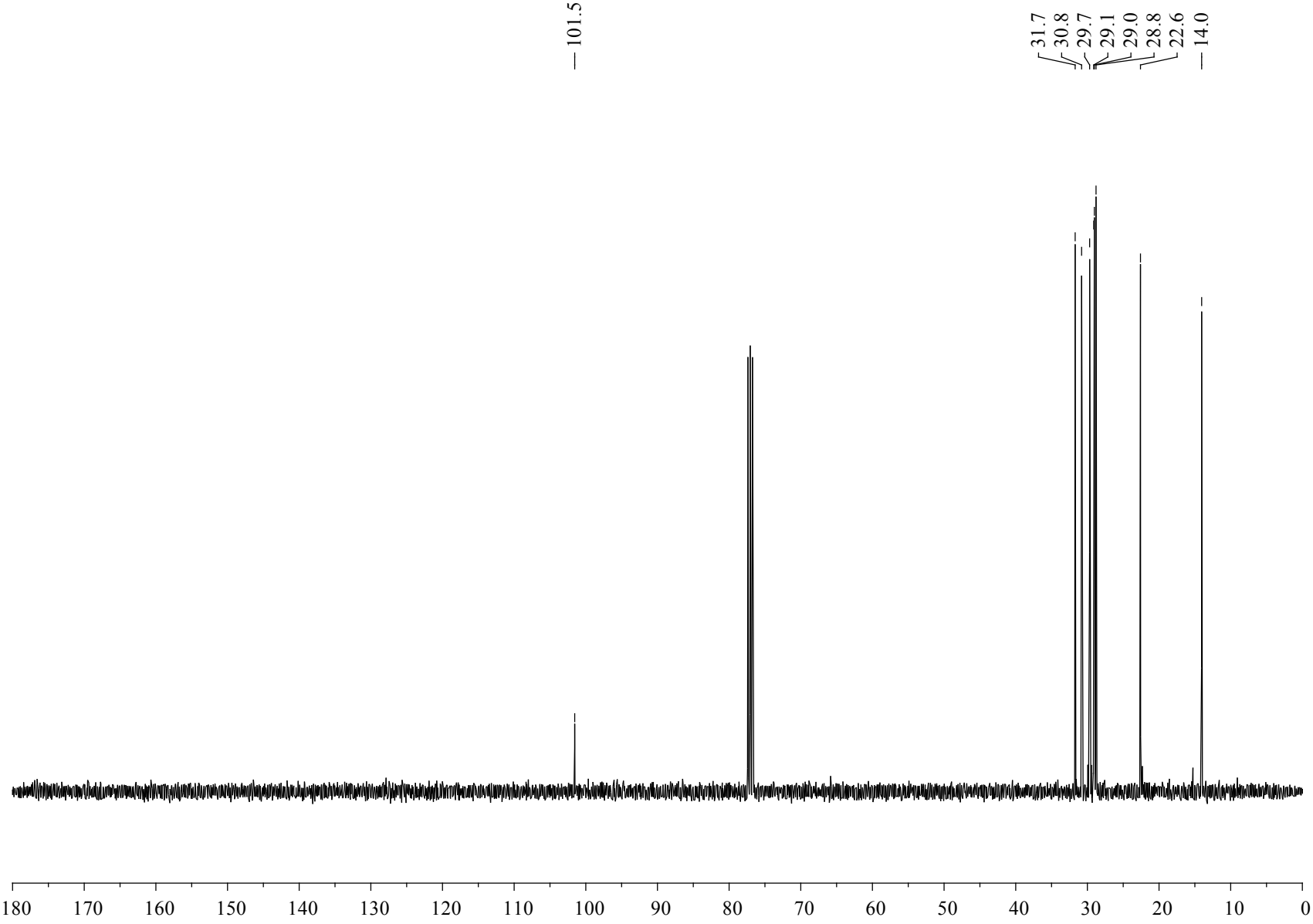
^{1}H NMR, ^{13}C NMR and ^{77}Se NMR spectra as consigned of the following compounds:

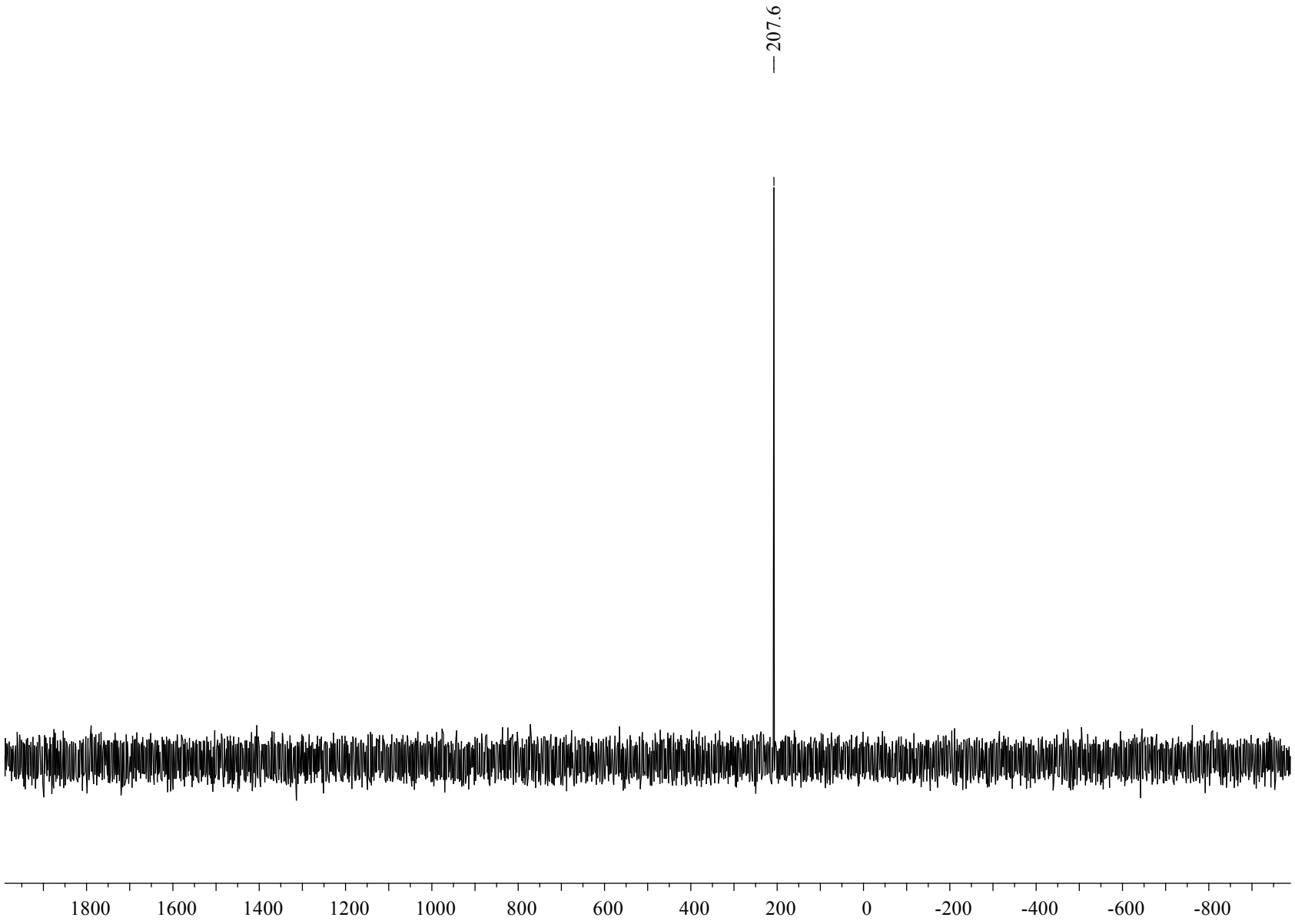
^{1}H NMR. 1-selenocyanatooctane



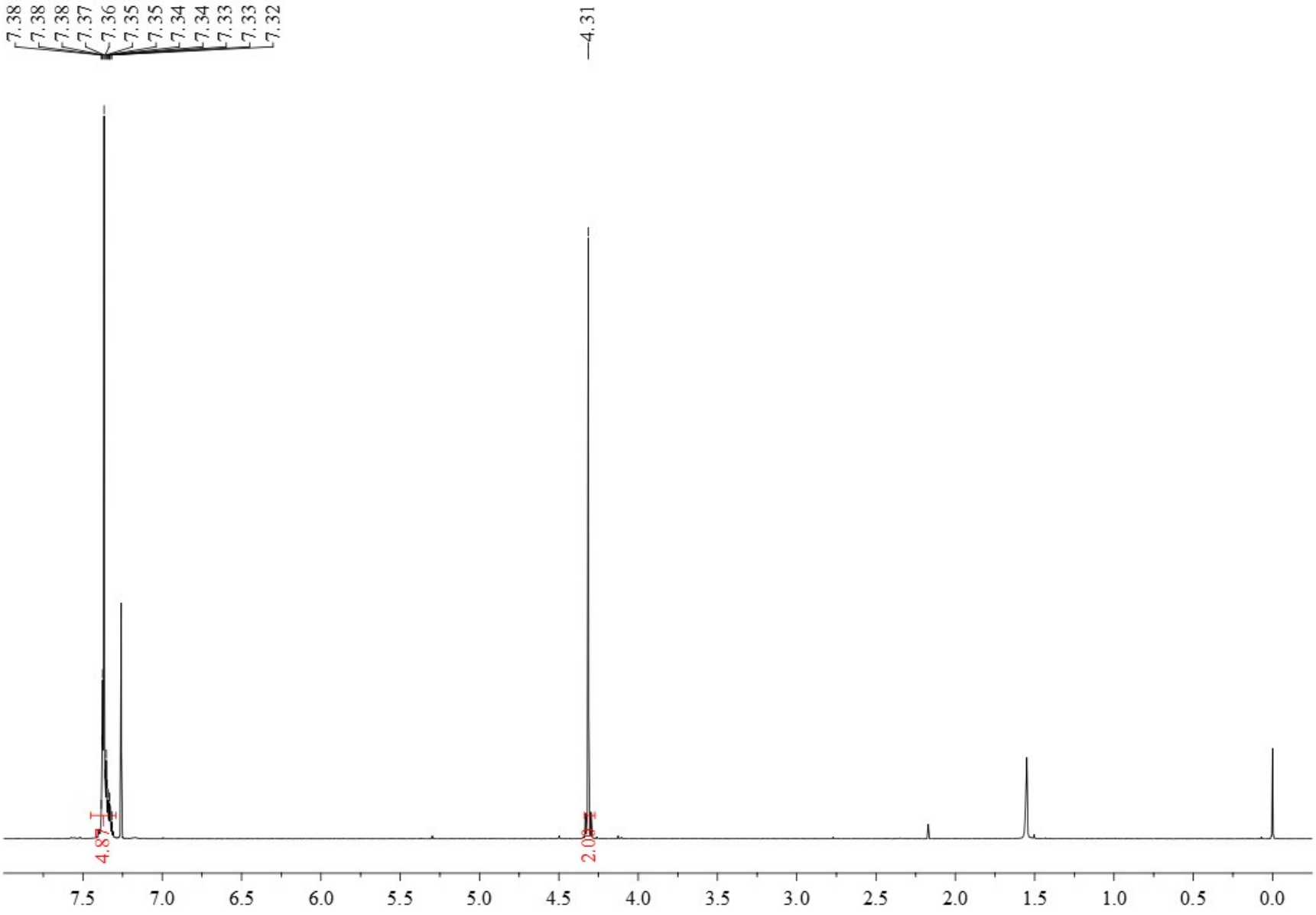
^{13}C NMR.1-selenocyanatooctane



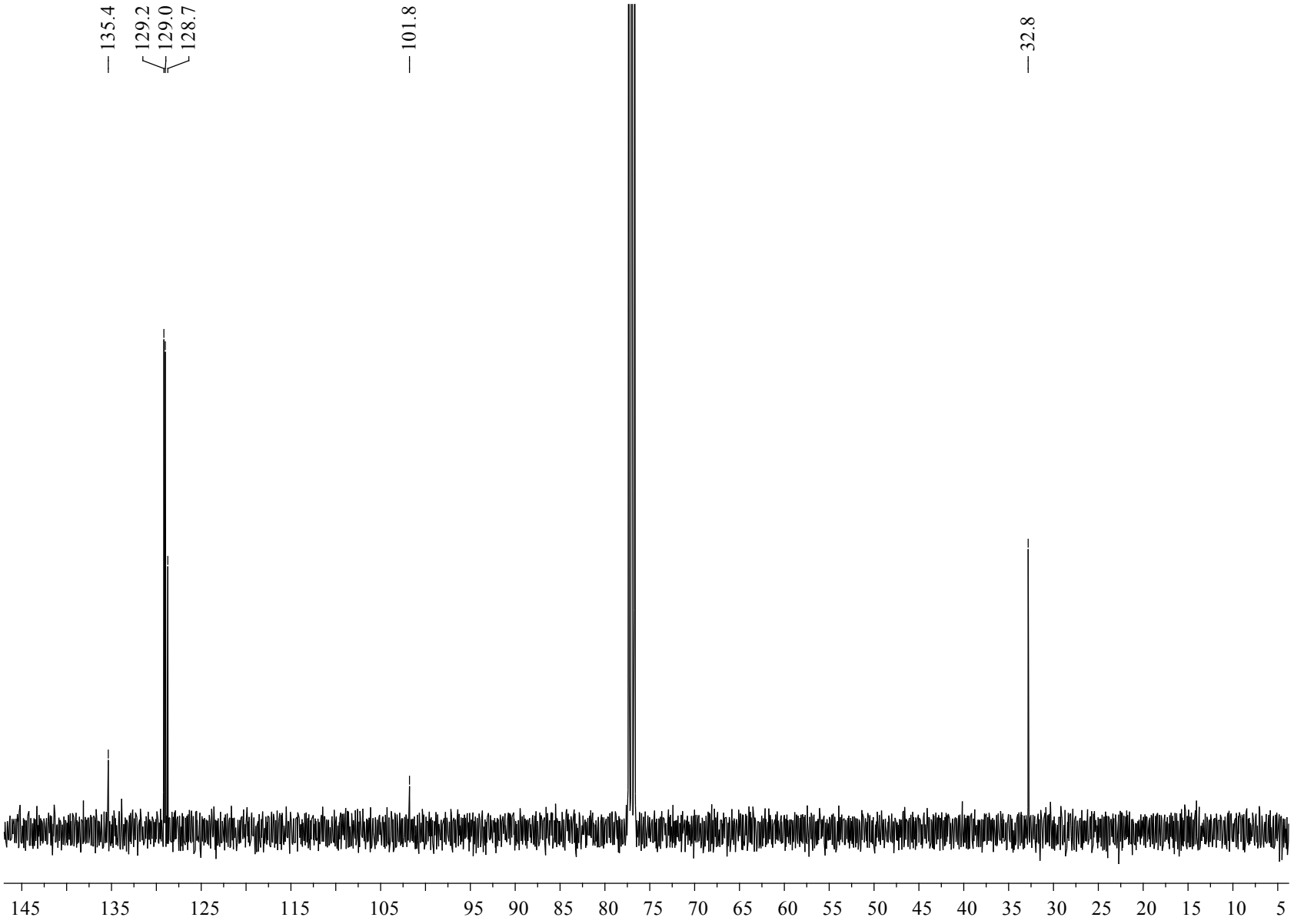
^{77}Se NMR. 1-selenocyanatooctane



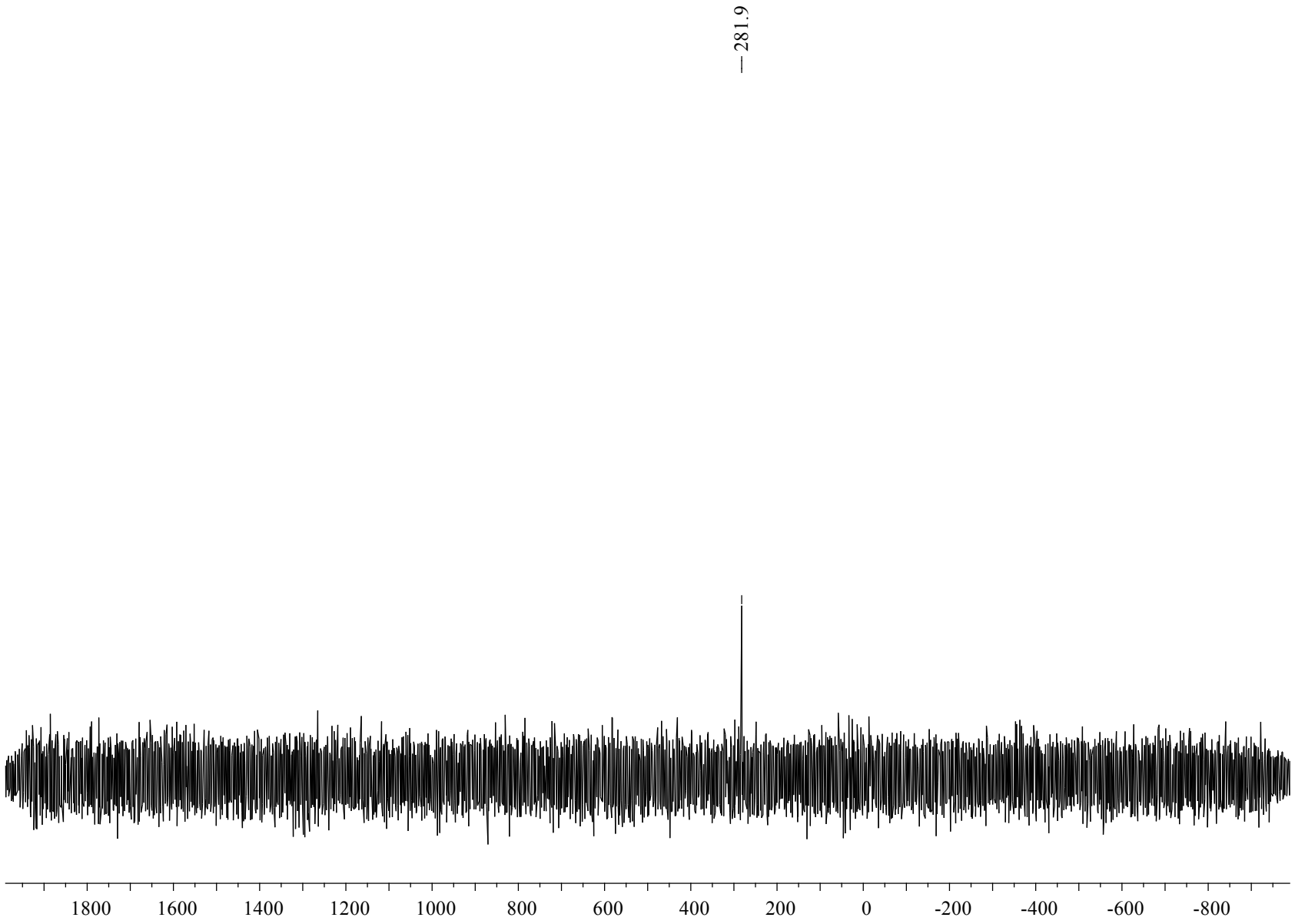
^{1}H NMR.(Selenocyanatomethyl)benzene



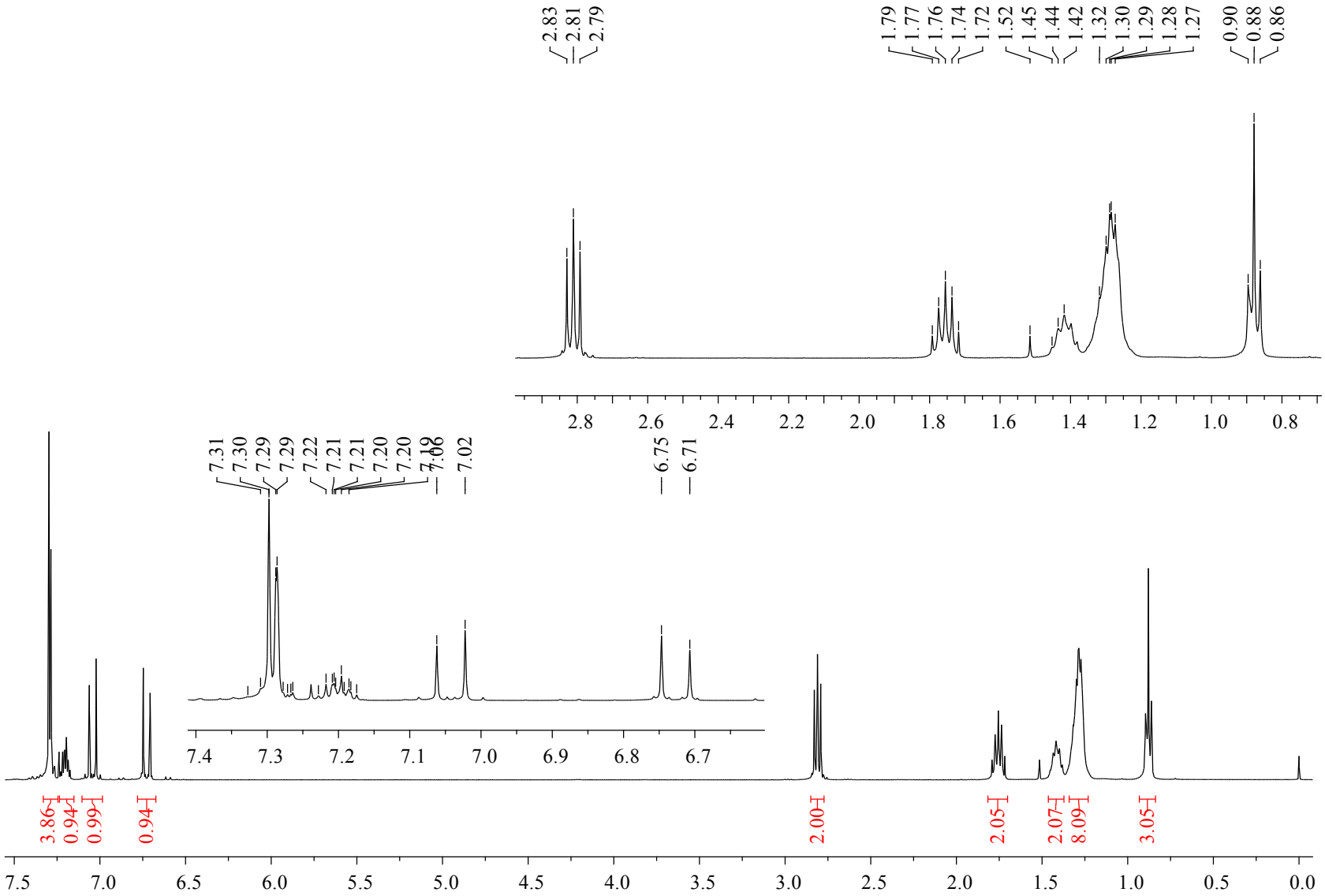
^{13}C NMR. (Selenocyanatomethyl)benzene



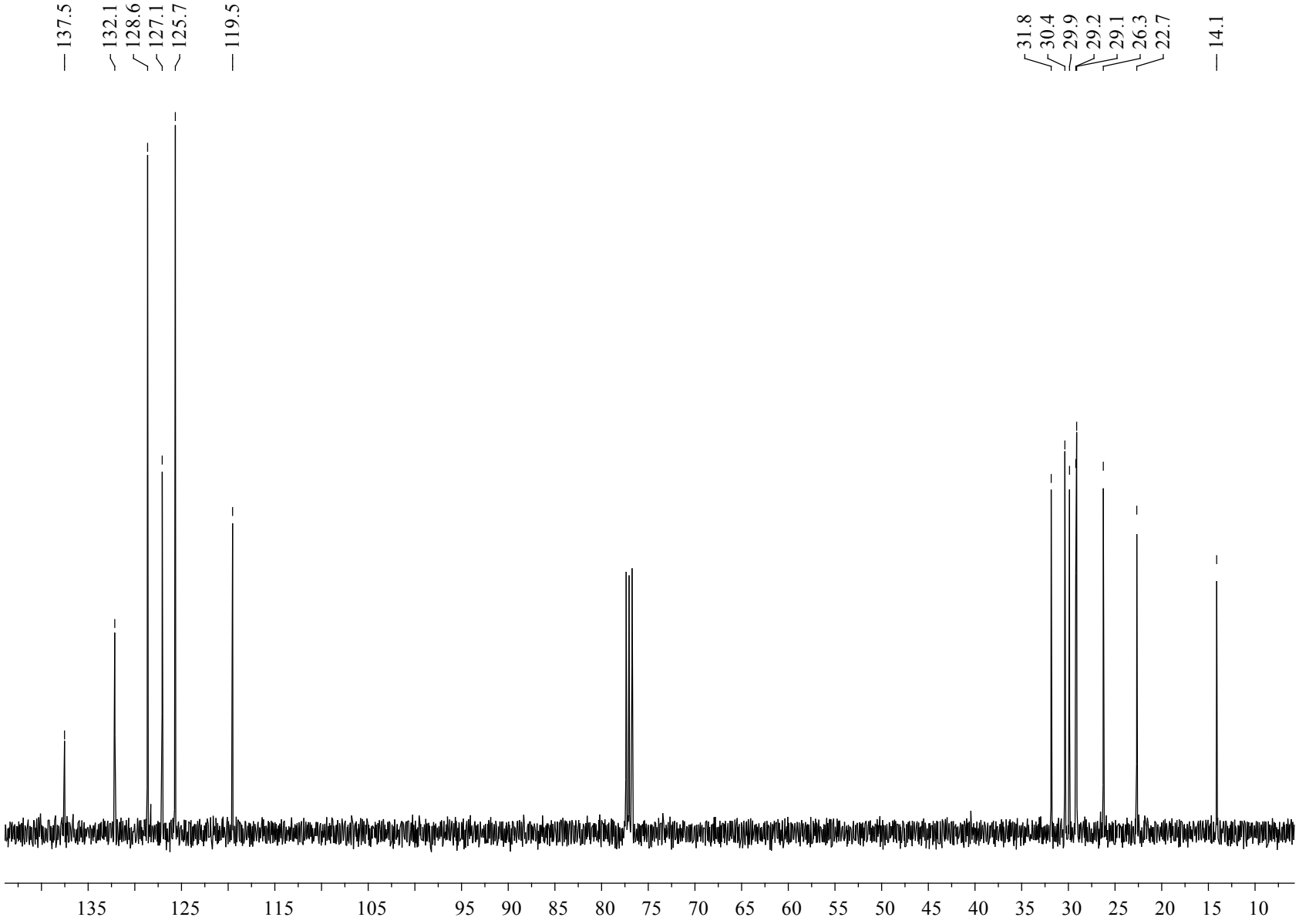
^{77}Se NMR. (Selenocyanatomethyl)benzene



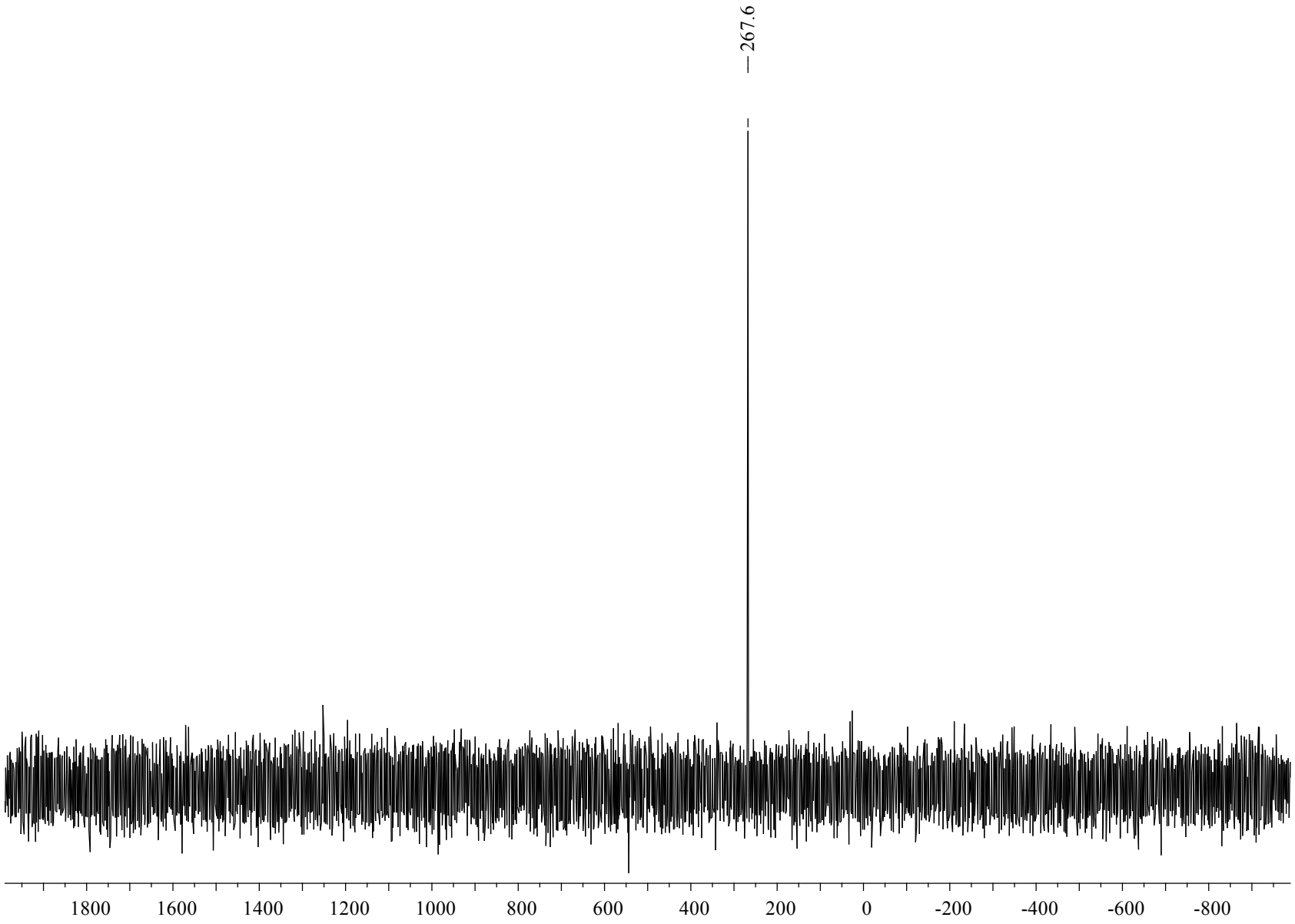
^{1}H NMR. (*E*)-octyl(styryl)selane (4a)



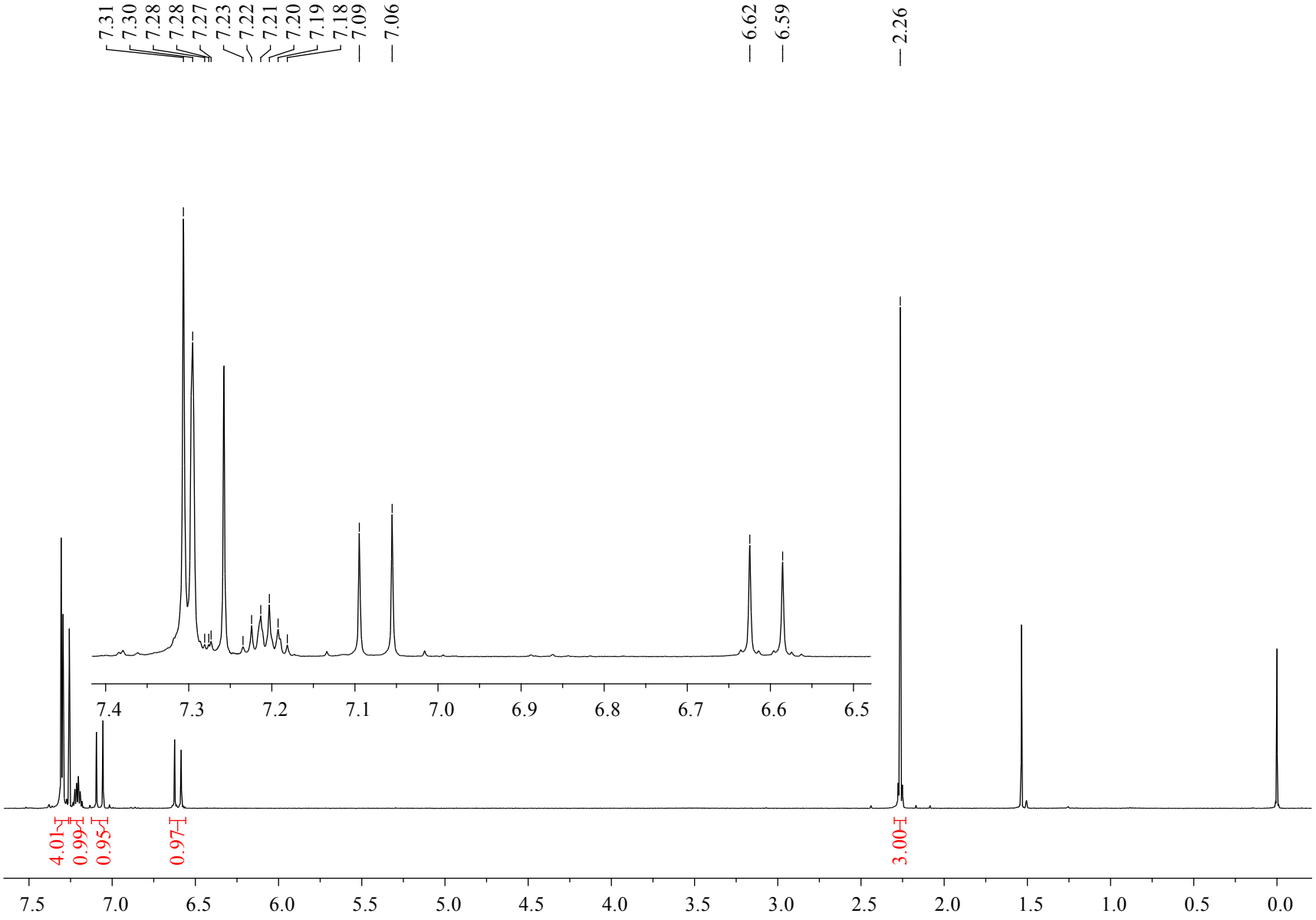
^{13}C NMR. (*E*)-octyl(styryl)selane (4a)



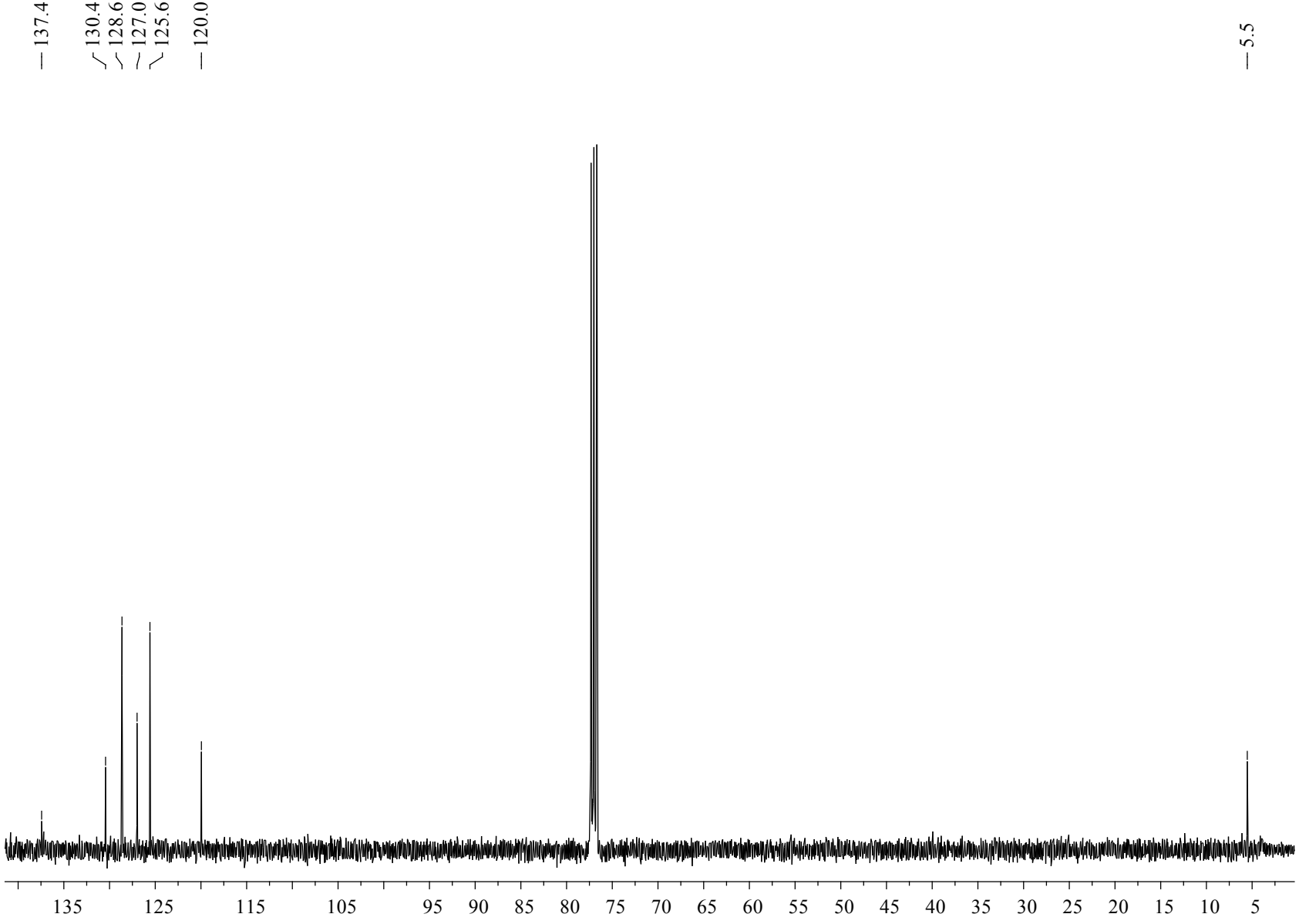
^{77}Se NMR. (*E*)-octyl(styryl)selane (4a)



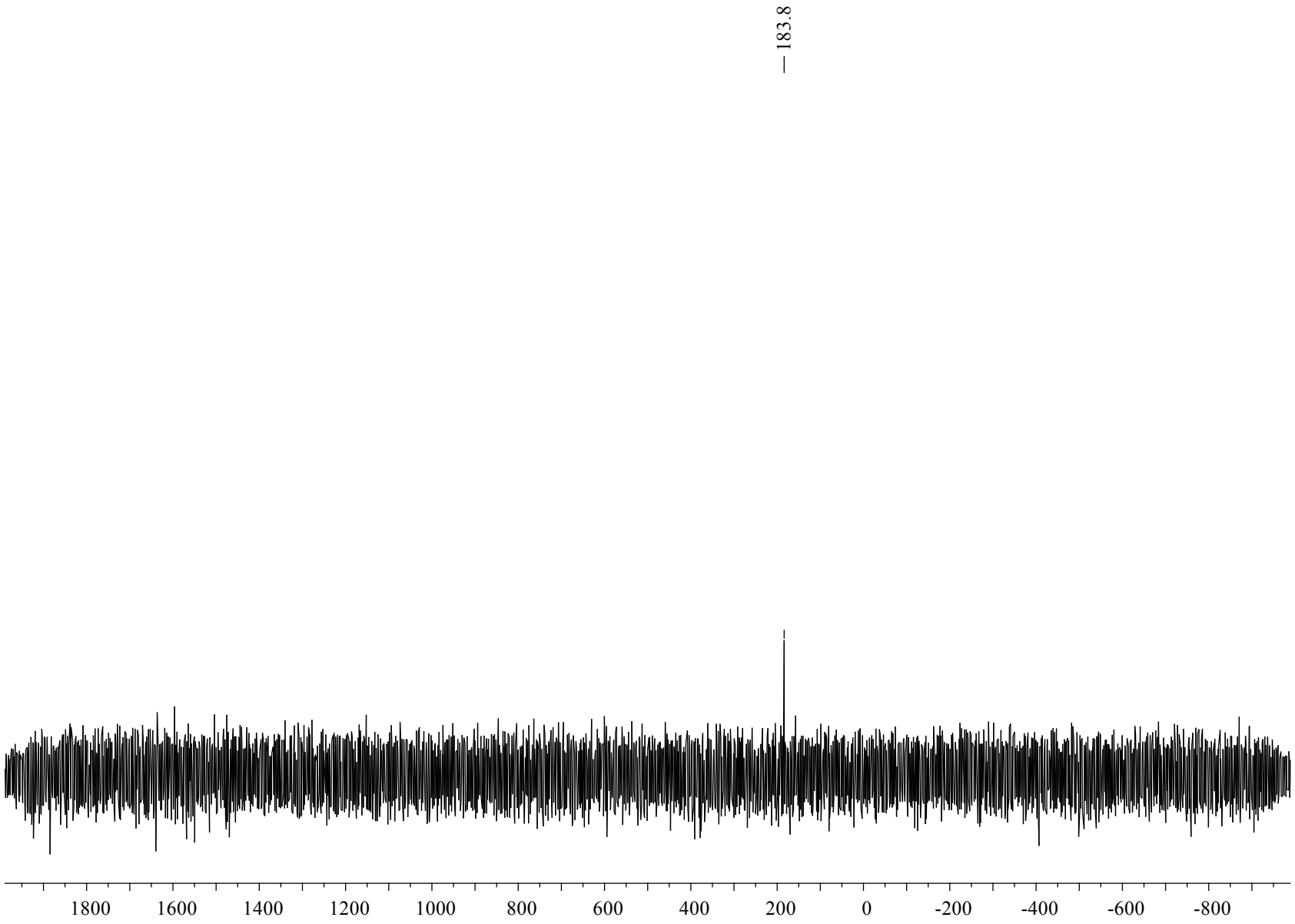
^{1}H NMR. (*E*)-methyl(styryl)selane (4b)



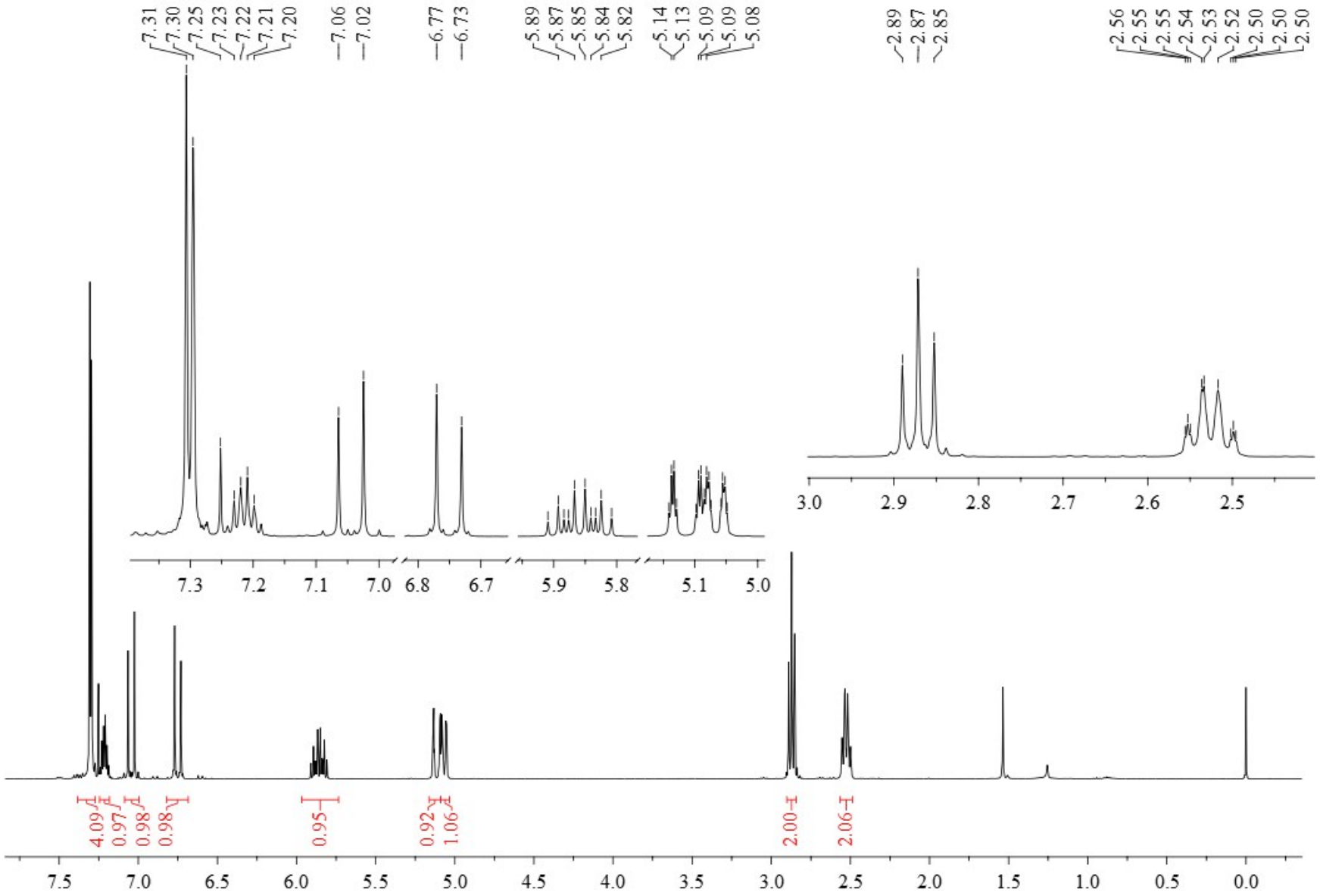
^{13}C NMR. (*E*)-methyl(styryl)selane (4b)



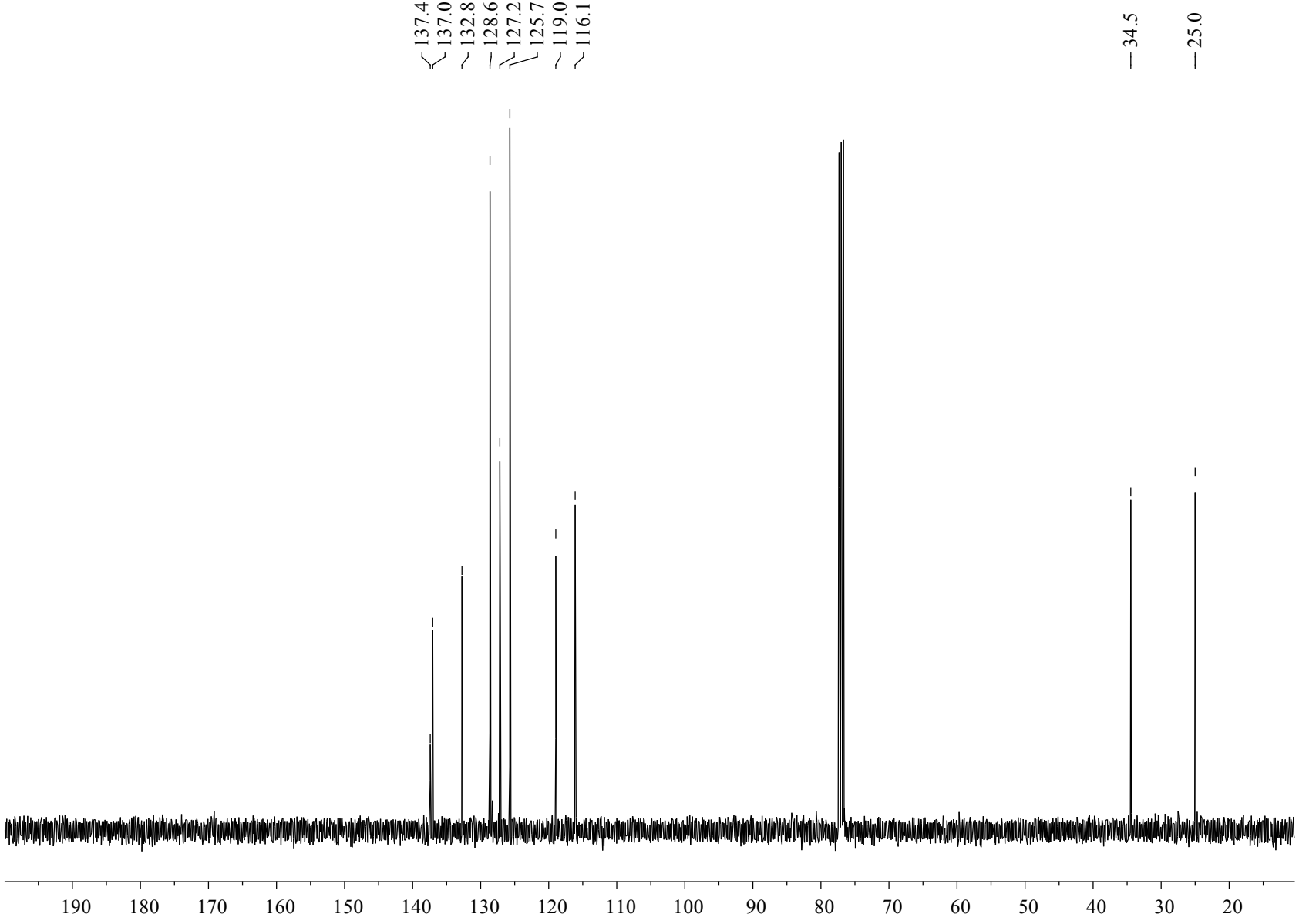
^{77}Se NMR. (*E*)-methyl(styryl)selane (4b)



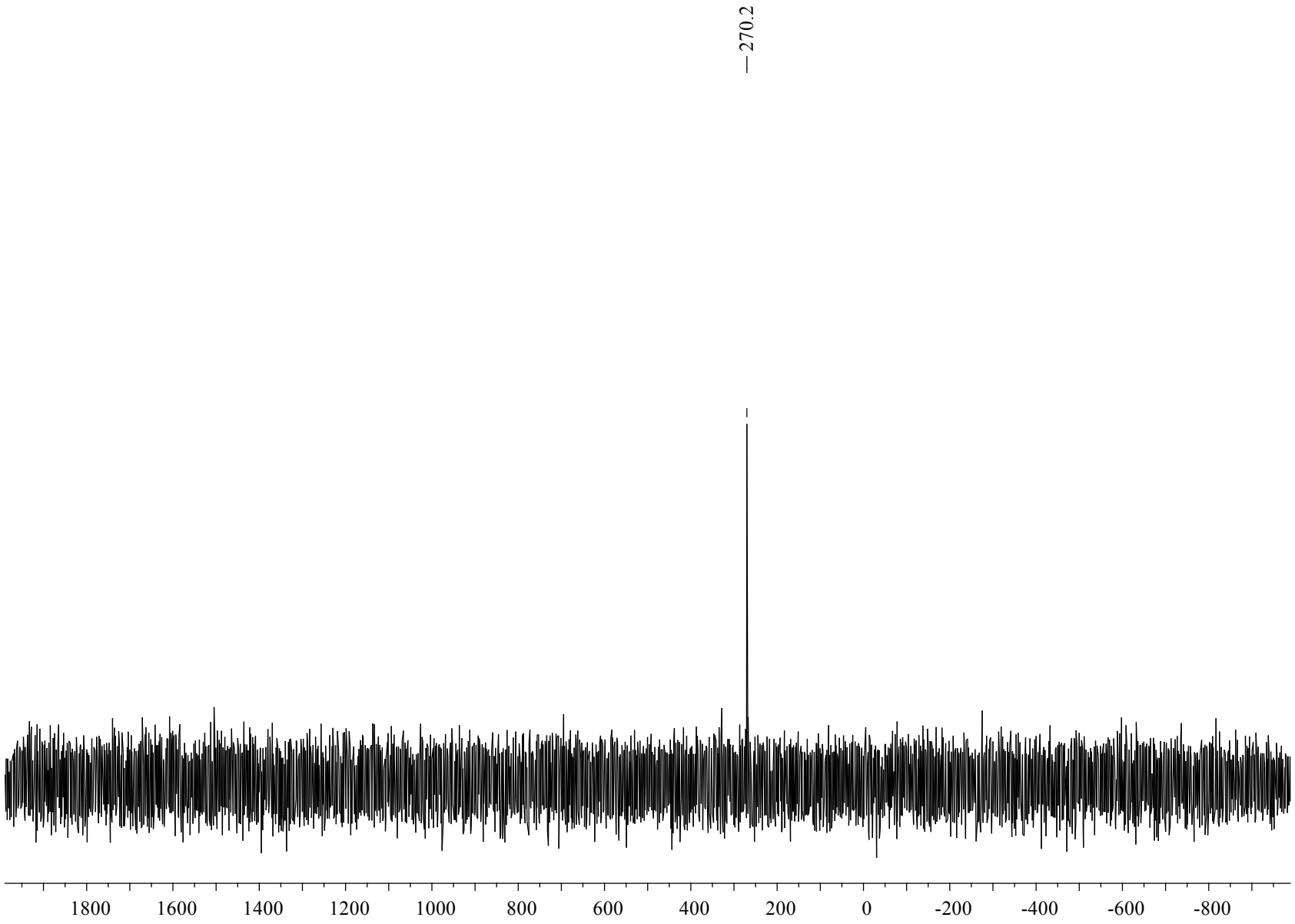
^{1}H NMR. (*E*)-but-3-en-1-yl(styryl)selane (4c)



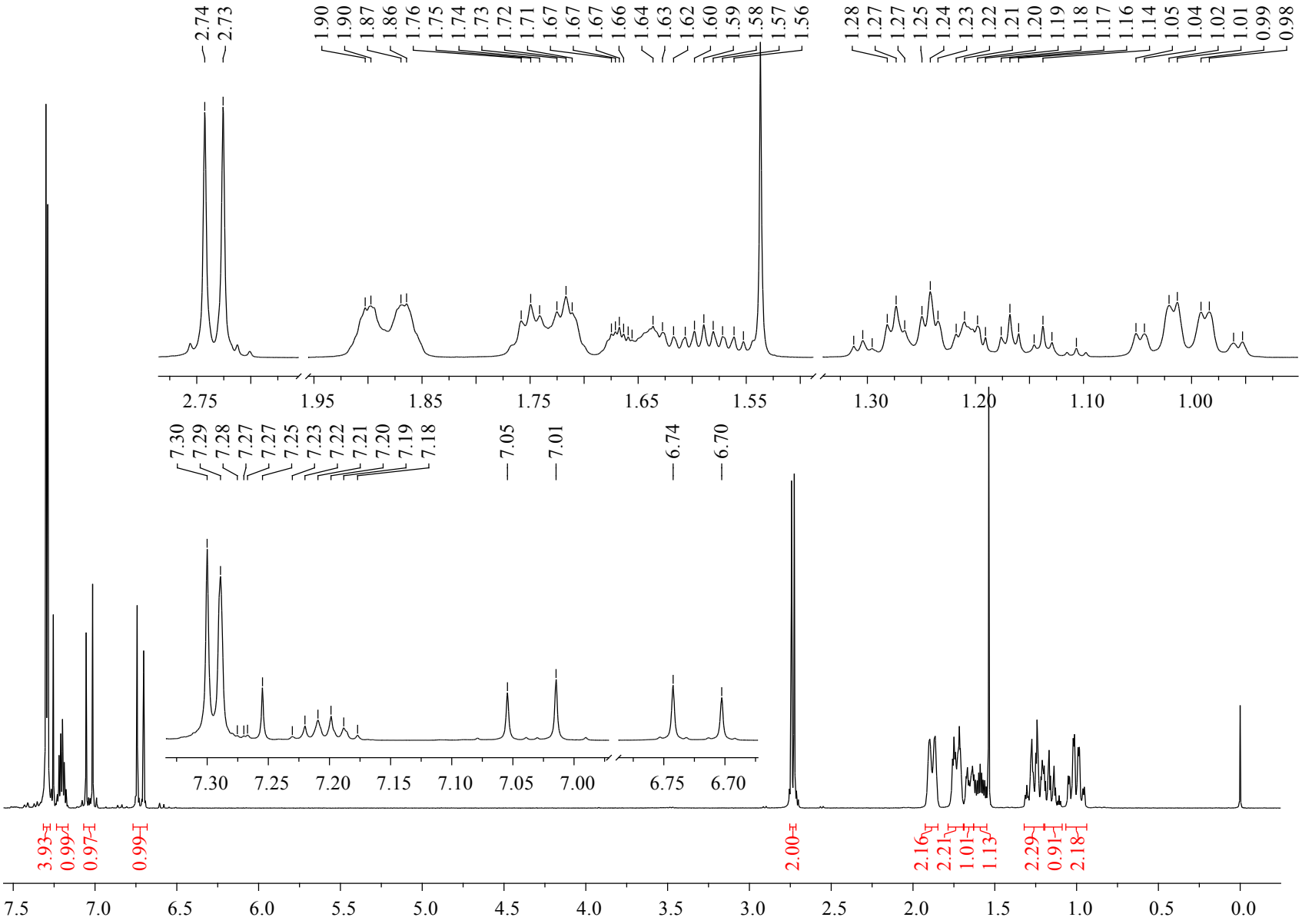
^{13}C NMR. (*E*)-but-3-en-1-yl(styryl)selane (4c)



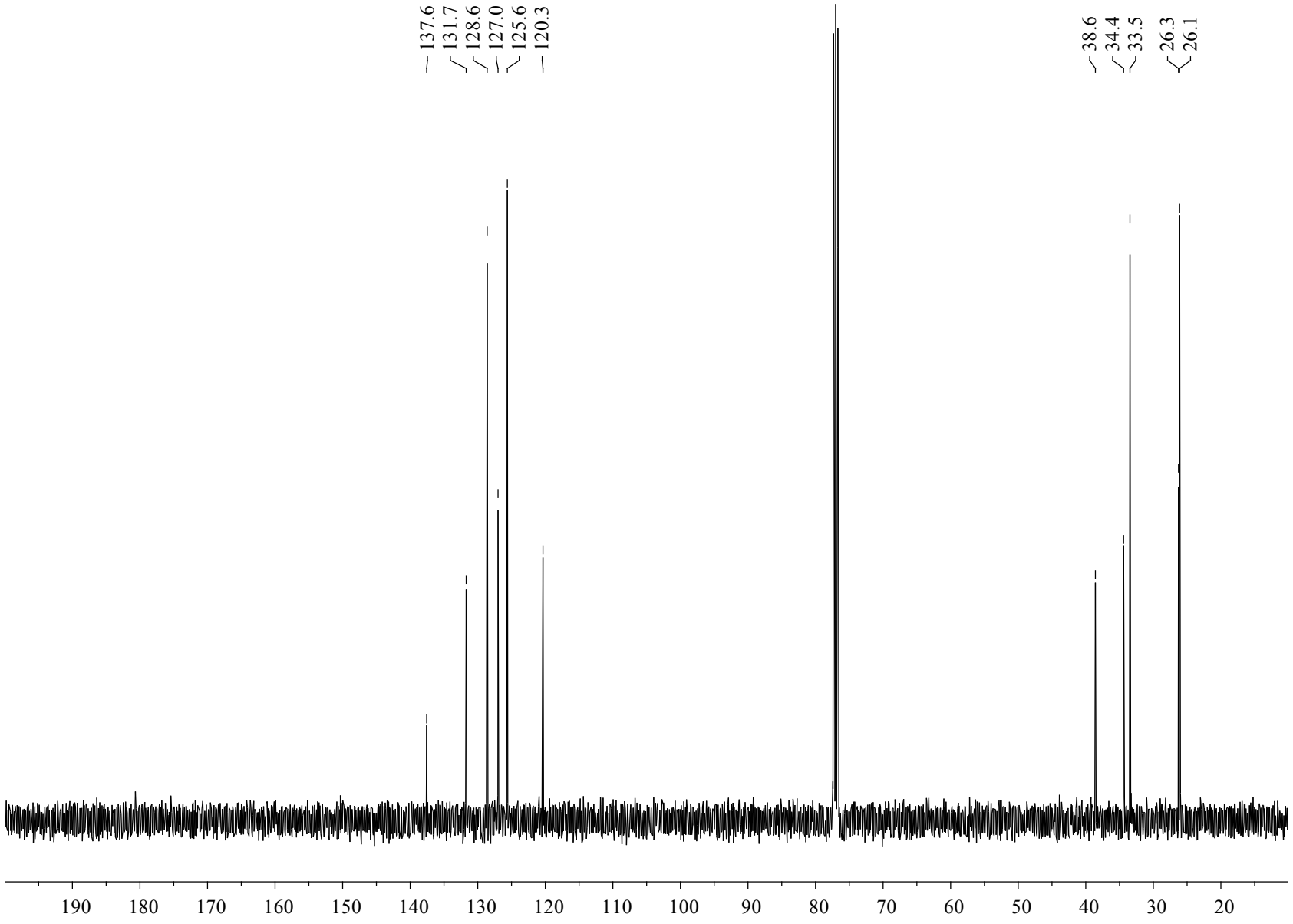
^{77}Se NMR. (*E*)-but-3-en-1-yl(styryl)selane (4c)



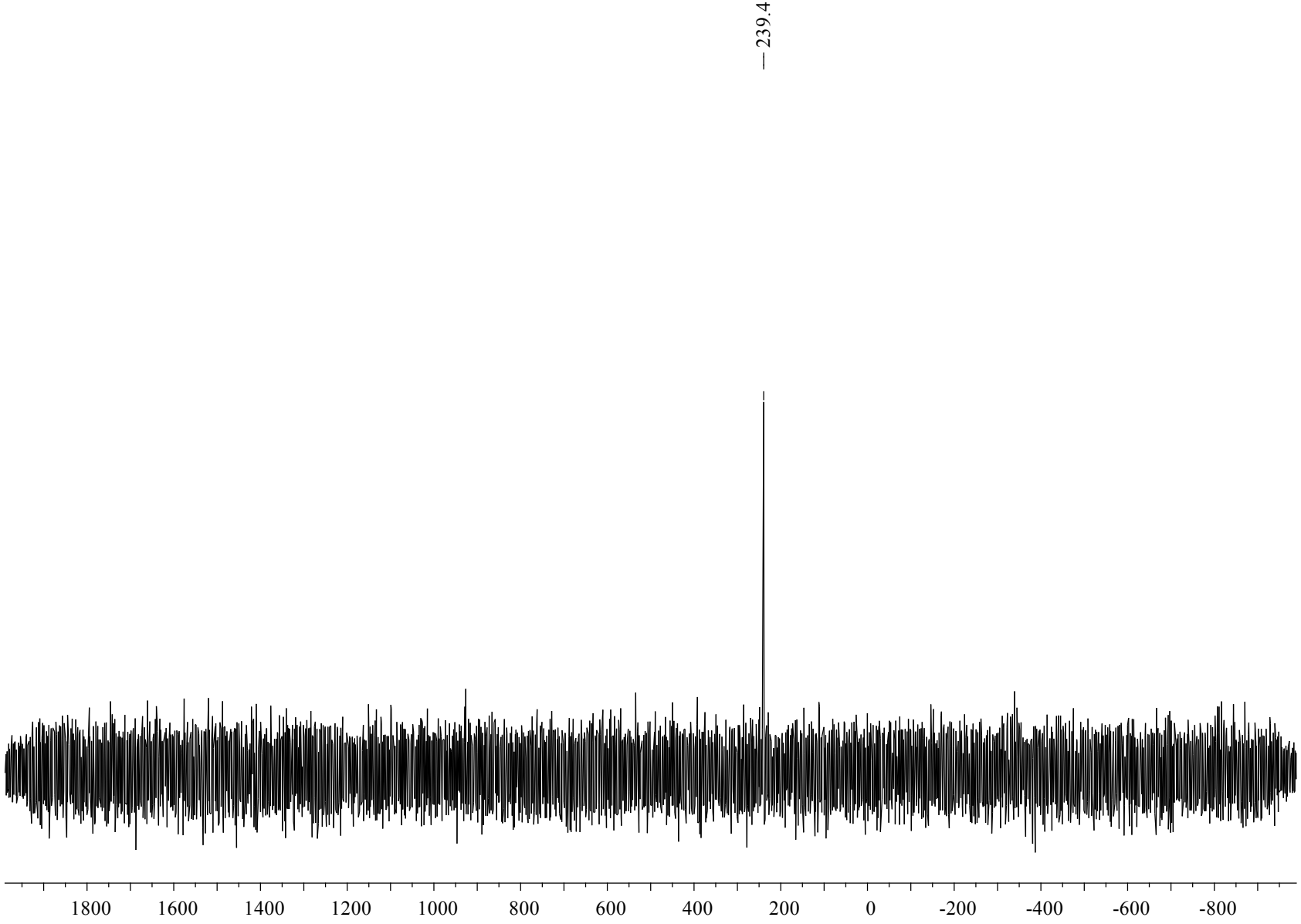
^{1}H NMR. (*E*)-(cyclohexylmethyl)(styryl)selane (4d)



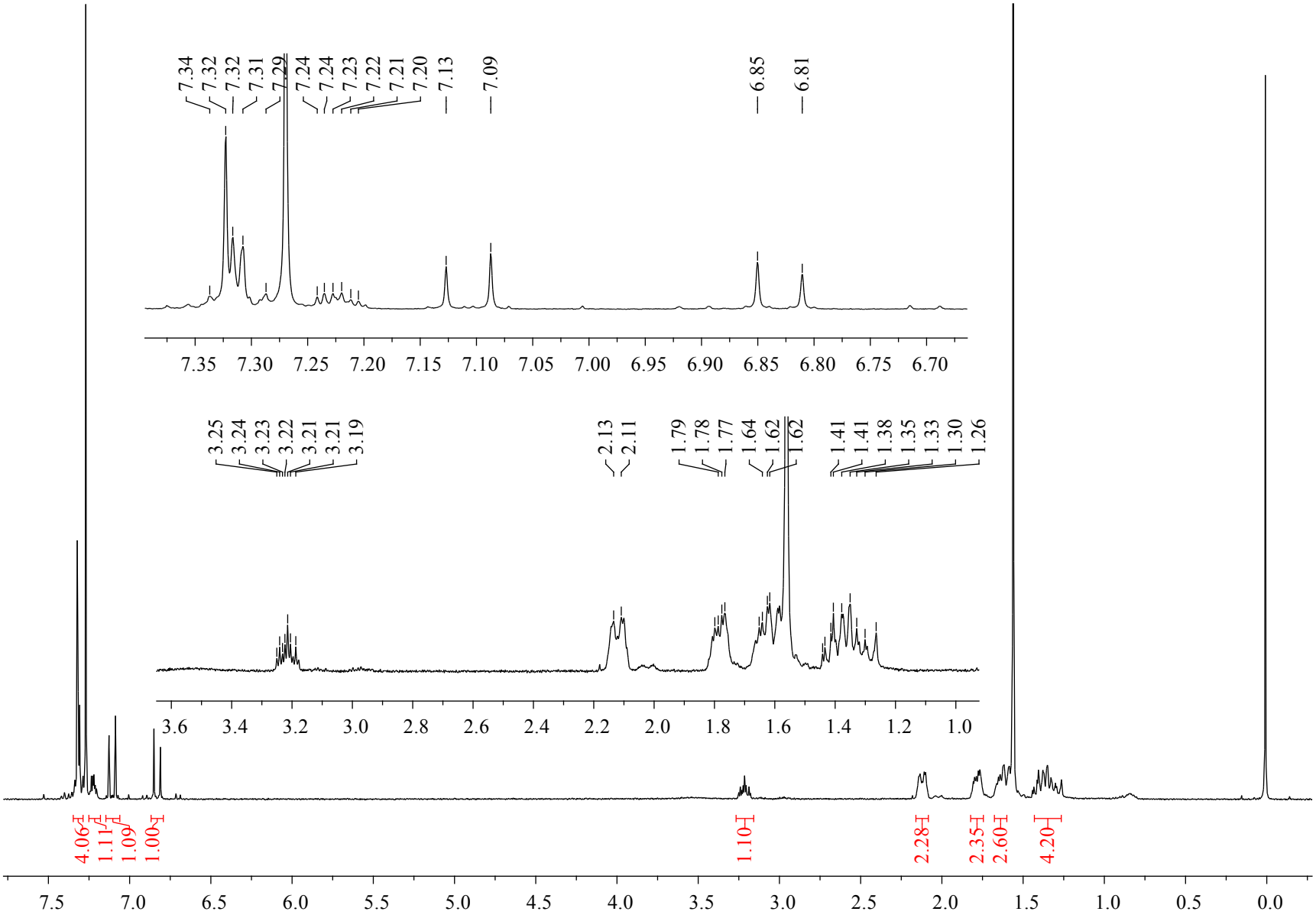
^{13}C NMR. (*E*)-(cyclohexylmethyl)(styryl)selane (4d)



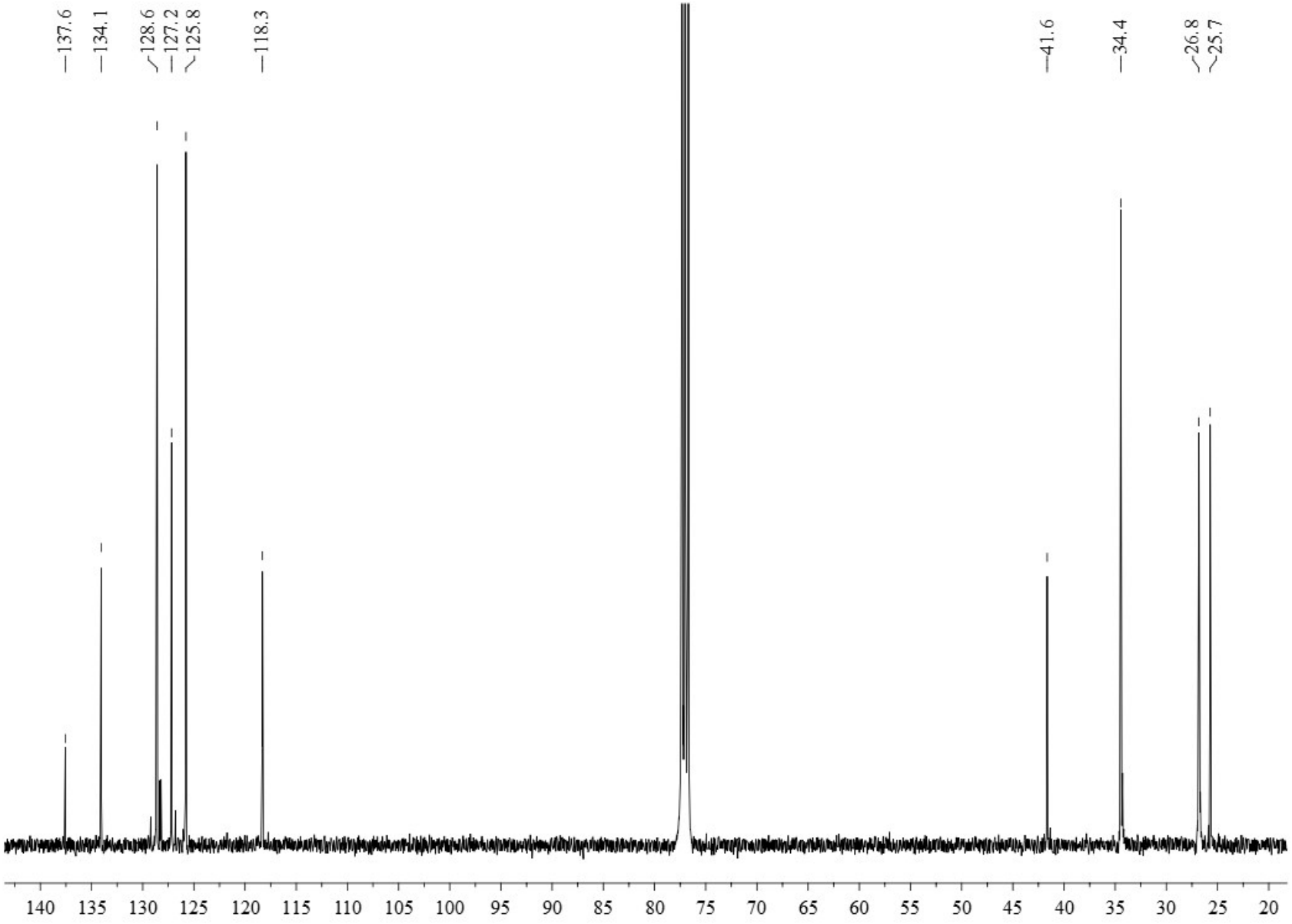
^{77}Se NMR. (*E*)-(cyclohexylmethyl)(styryl)selane (4d)



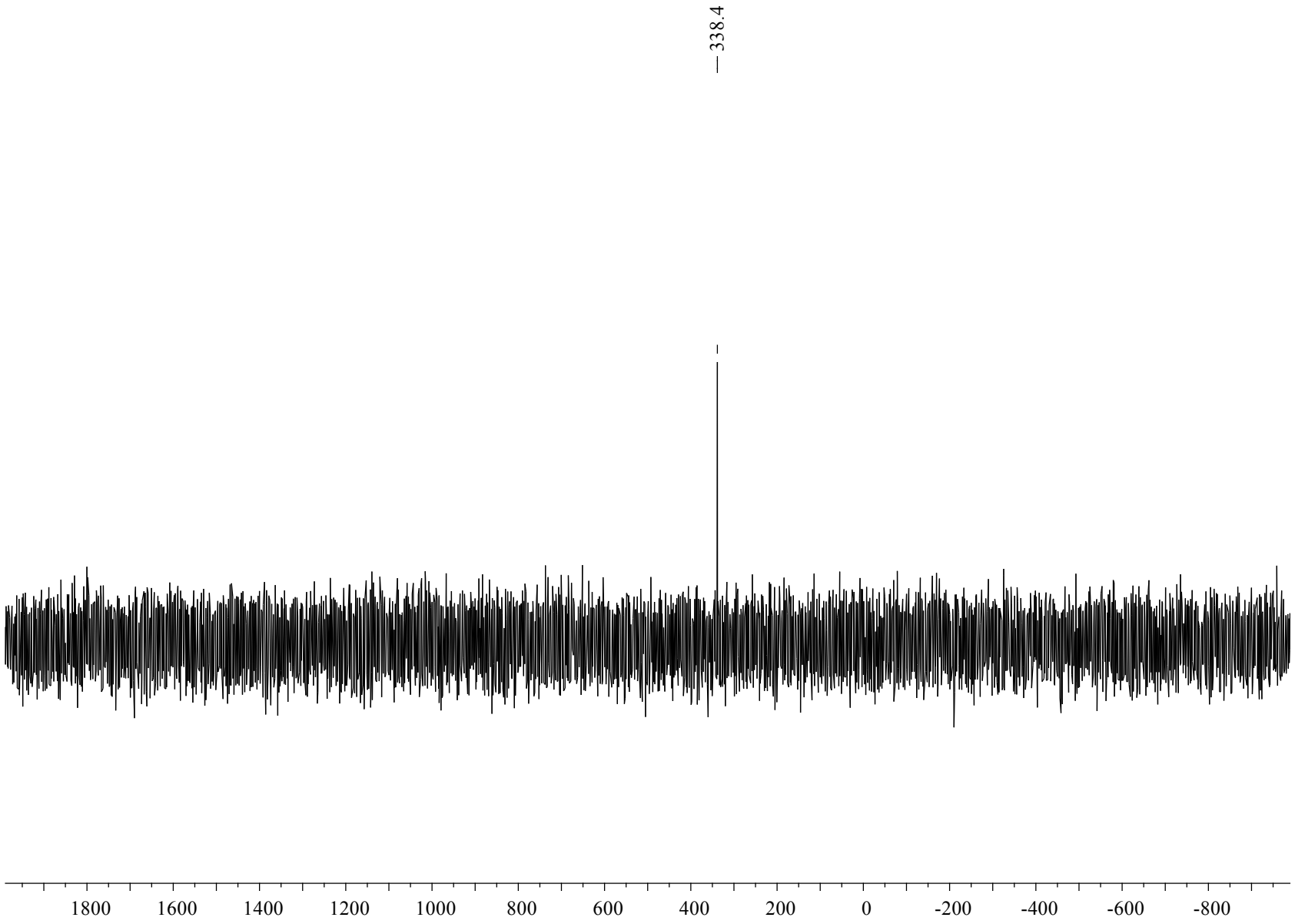
^{1}H NMR. (E)-cyclohexyl(styryl)selane (4e)



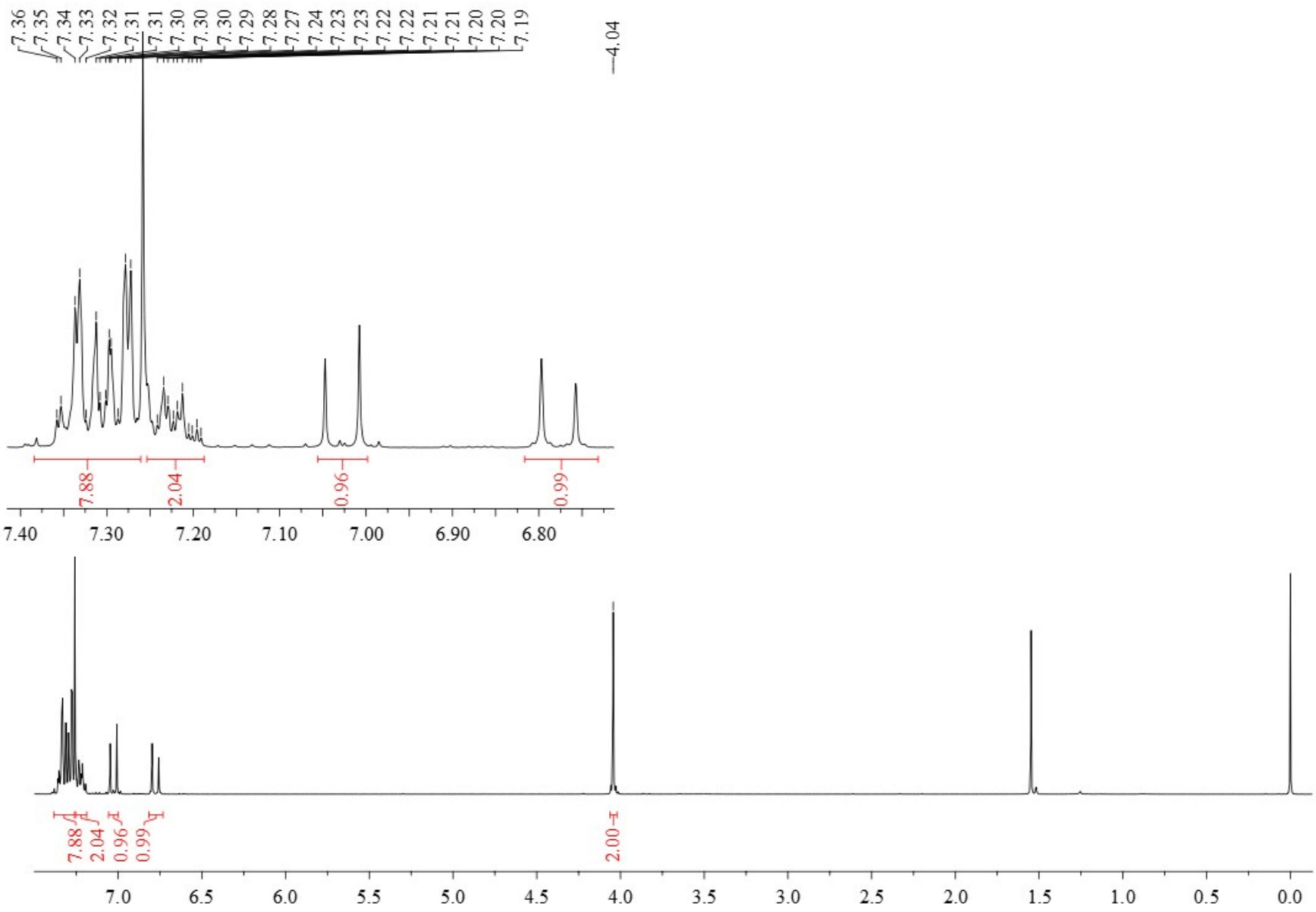
^{13}C NMR. (E)-cyclohexyl(styryl)selane (4e)



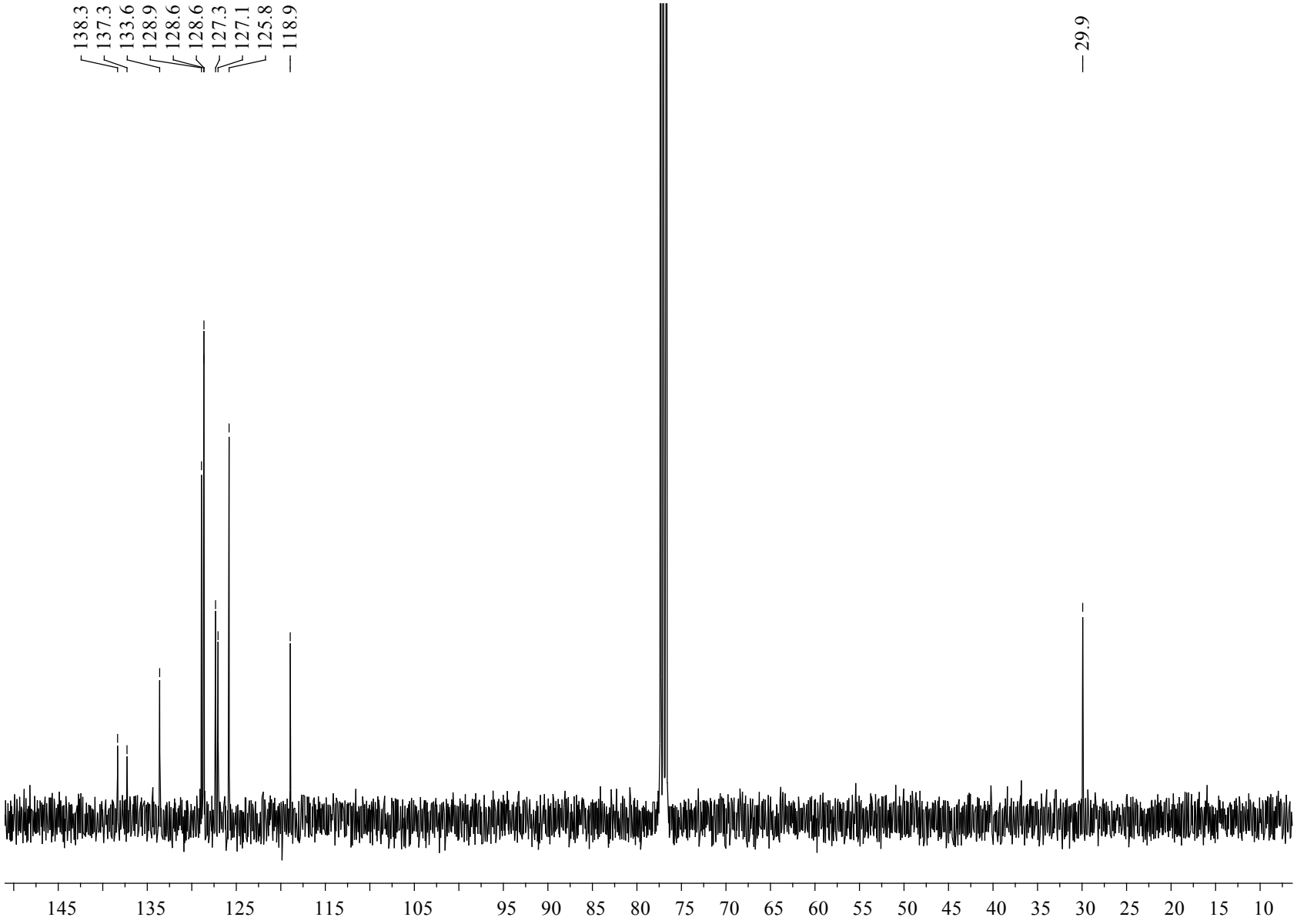
^{77}Se NMR. (E)-cyclohexyl(styryl)selane (4e)



^{1}H NMR. (*E*)-benzyl(styryl)selane (4f)



^{13}C NMR. (*E*)-benzyl(styryl)selane (4f)



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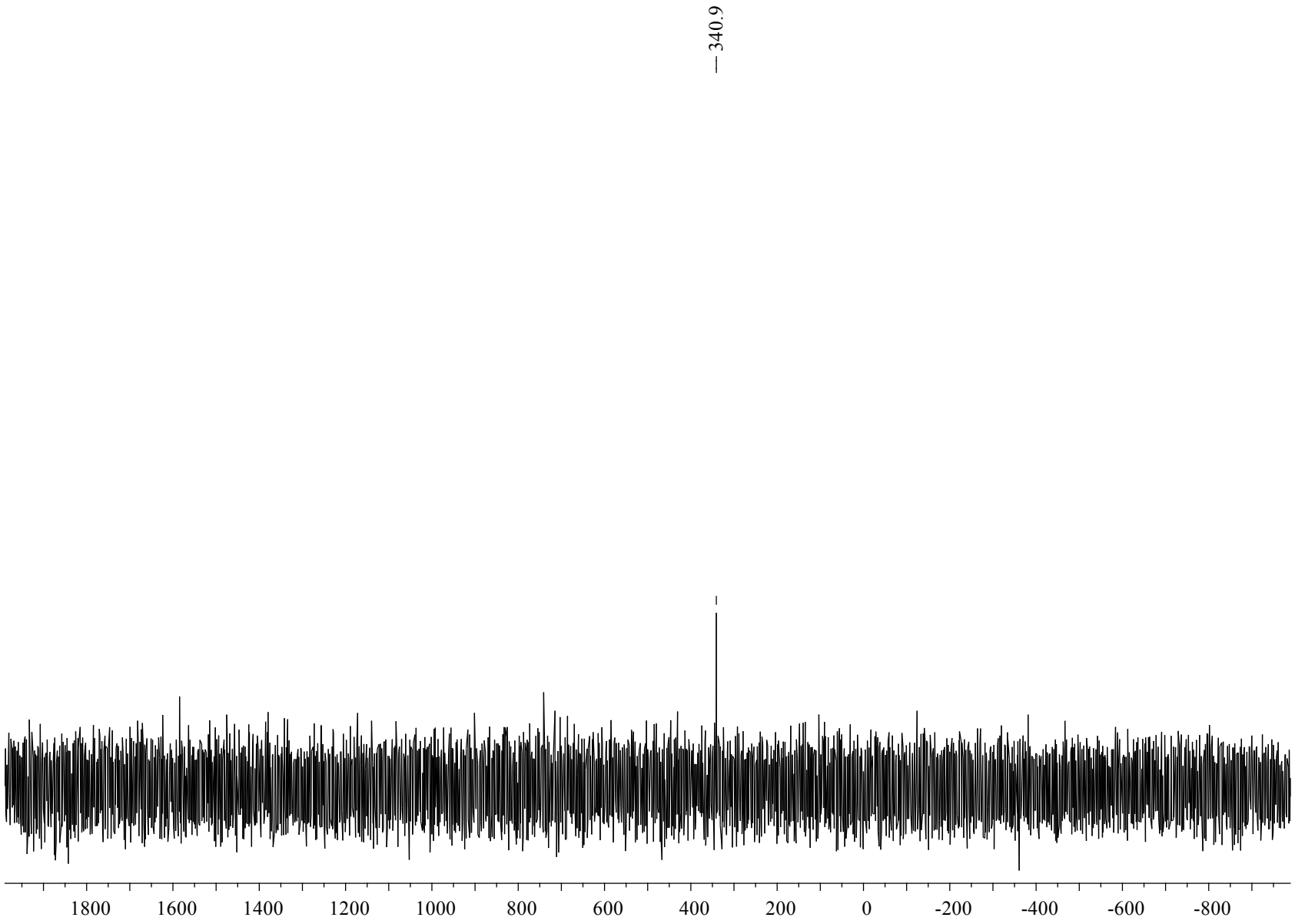
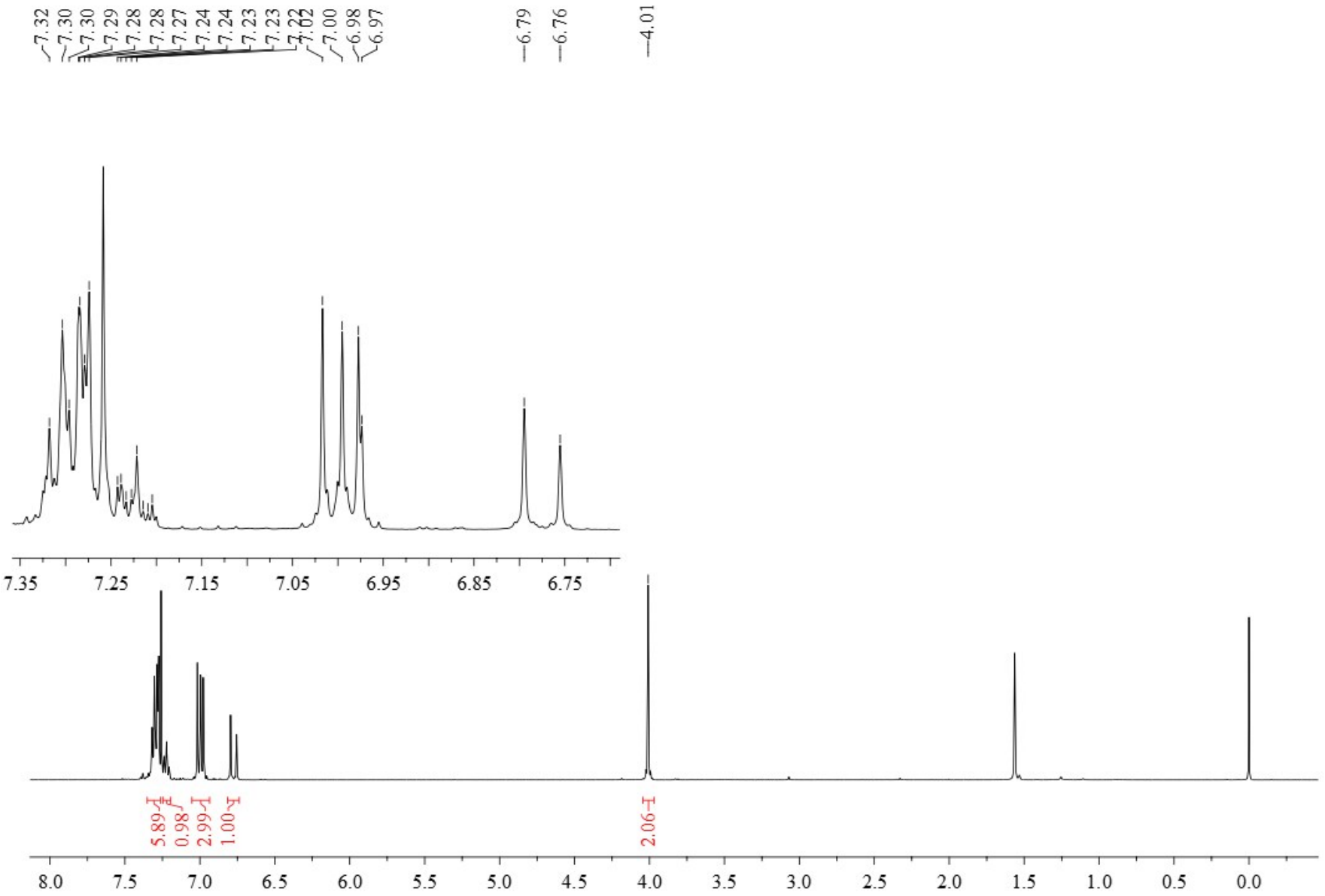
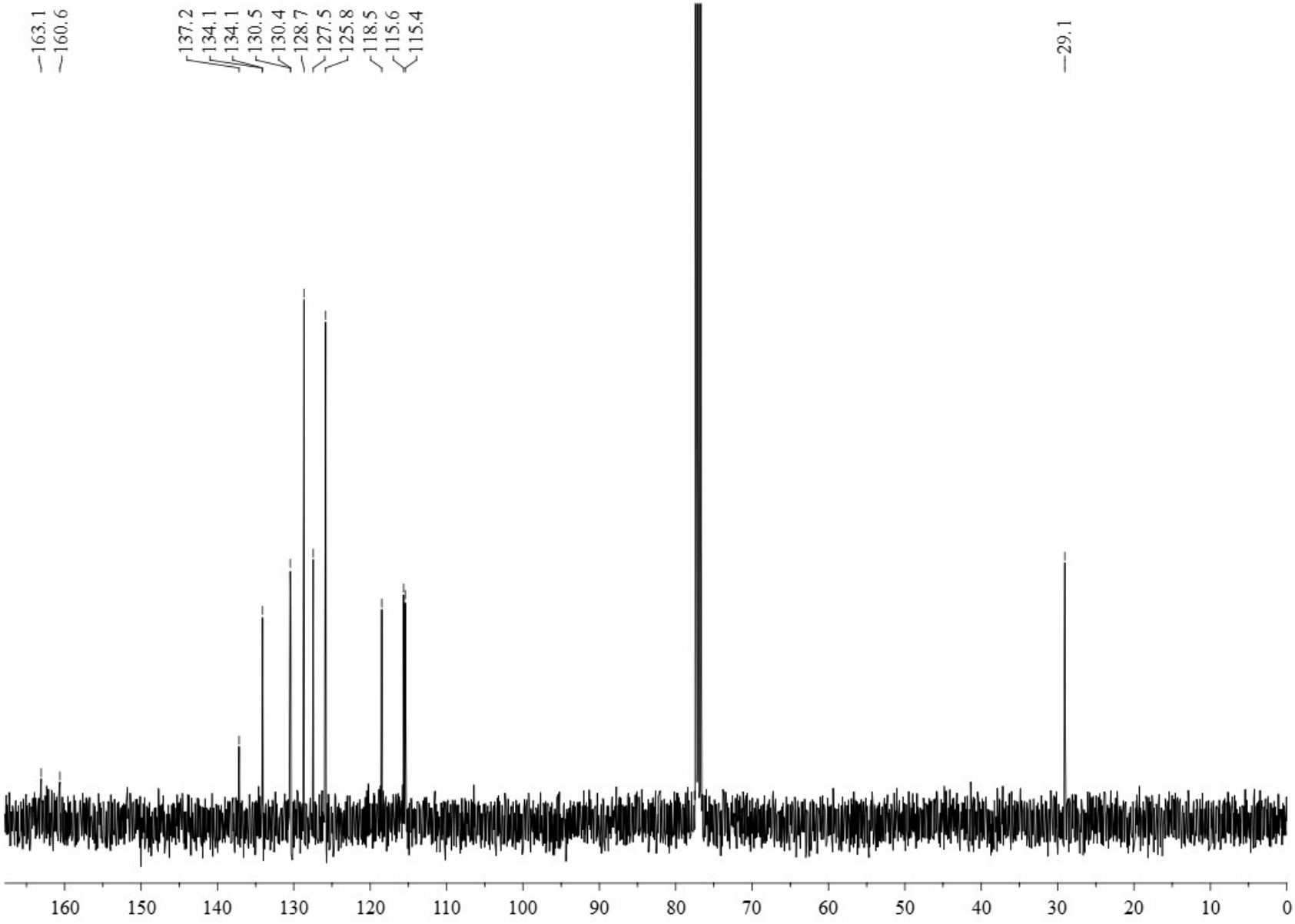


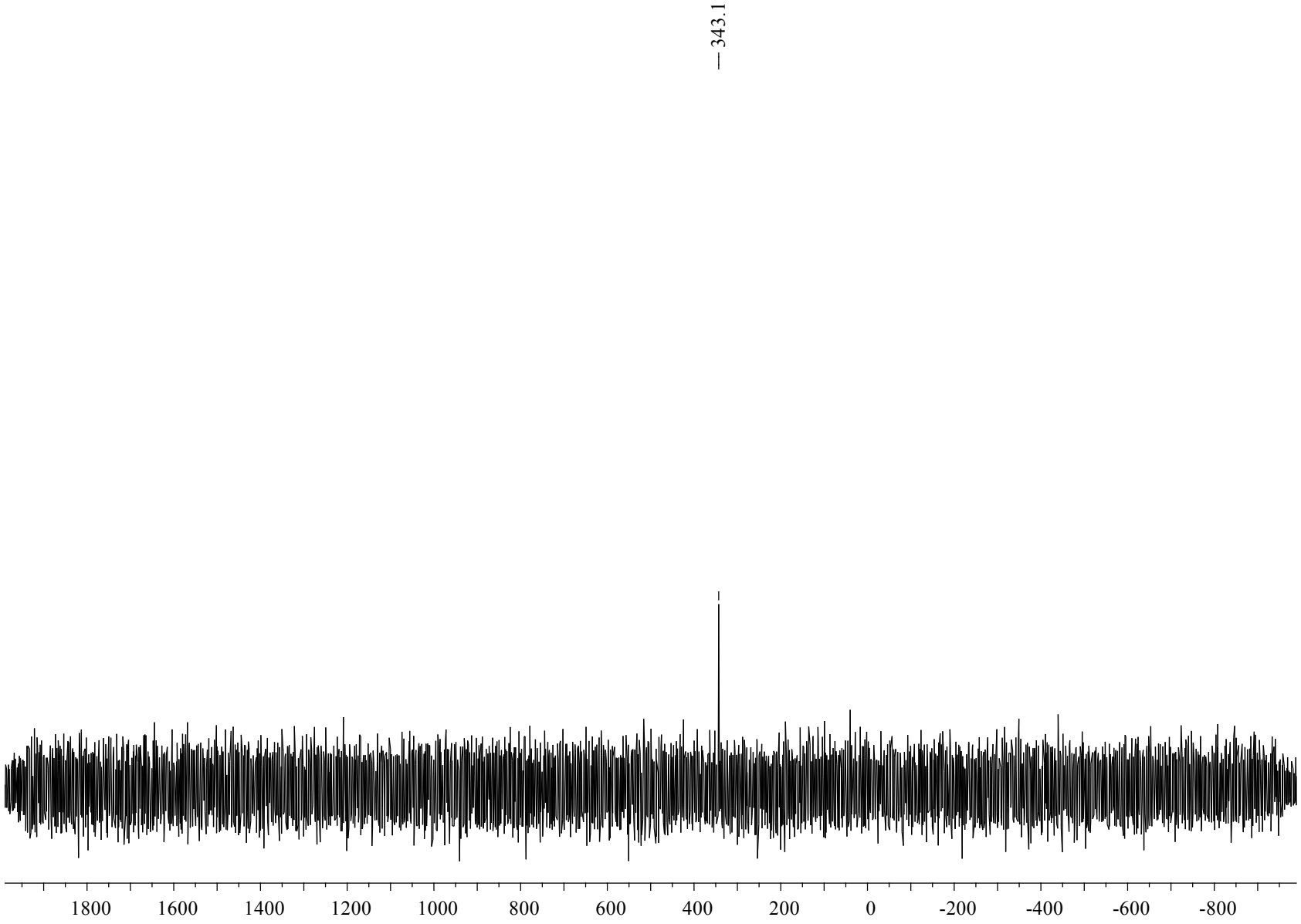
^{1}H NMR. (*E*)-(4-fluorobenzyl)(styryl)selane (4g)



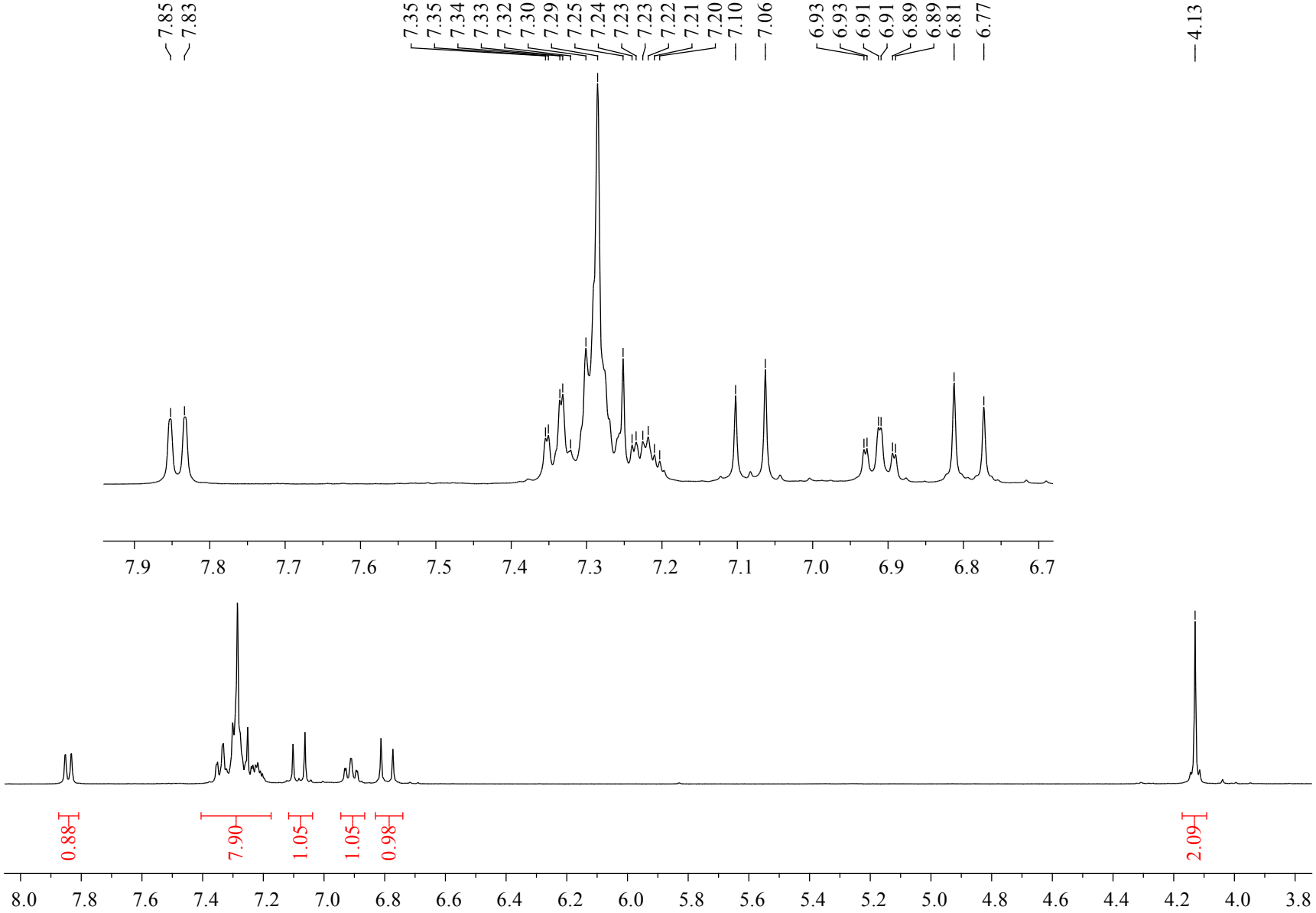
^{13}C NMR. (*E*)-(4-fluorobenzyl)(styryl)selane (4g)



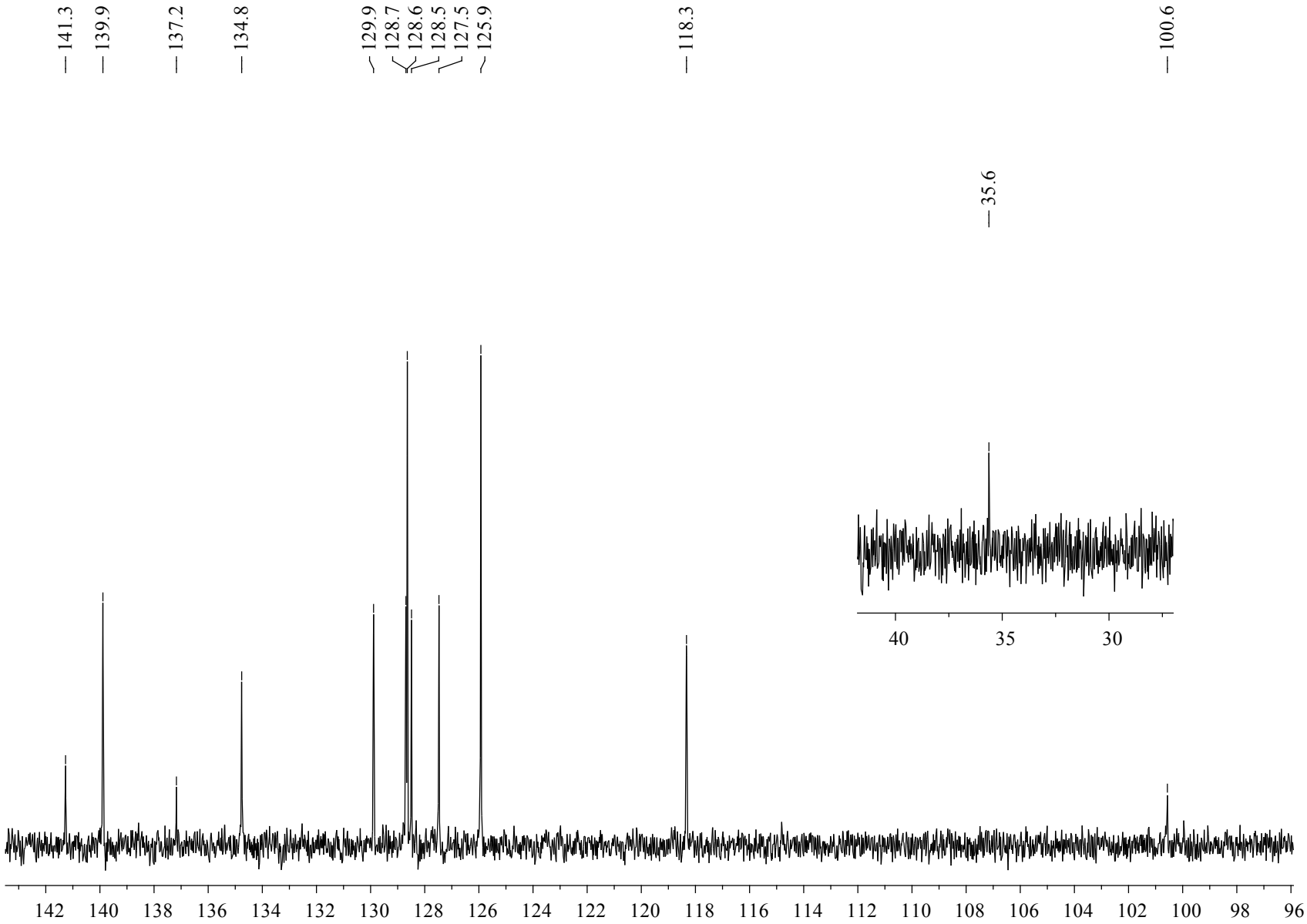
^{77}Se NMR. (*E*)-(4-fluorobenzyl)(styryl)selane (4g)



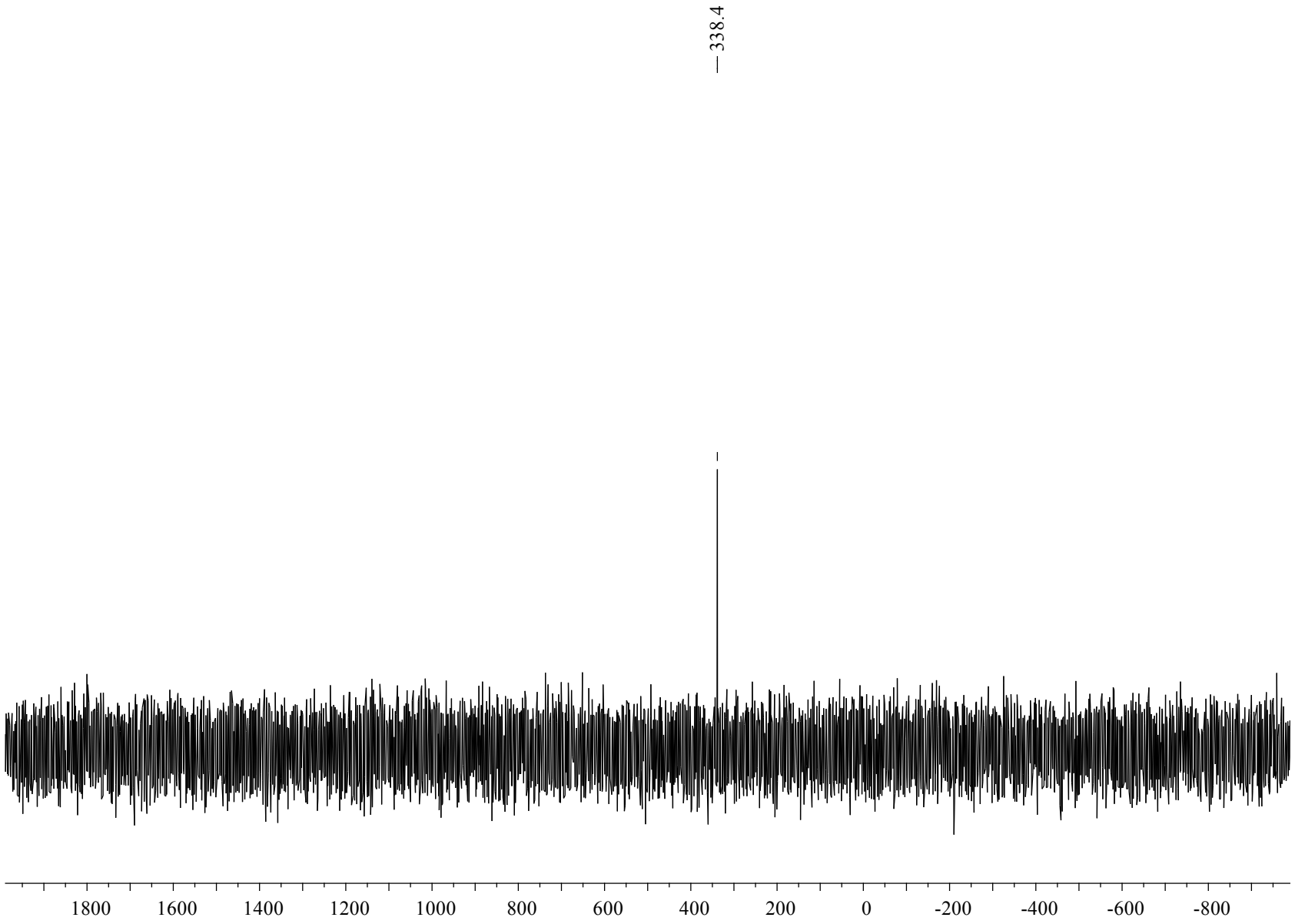
^{1}H NMR.(*E*)-(2-iodobenzyl)(styryl)selane (4h)



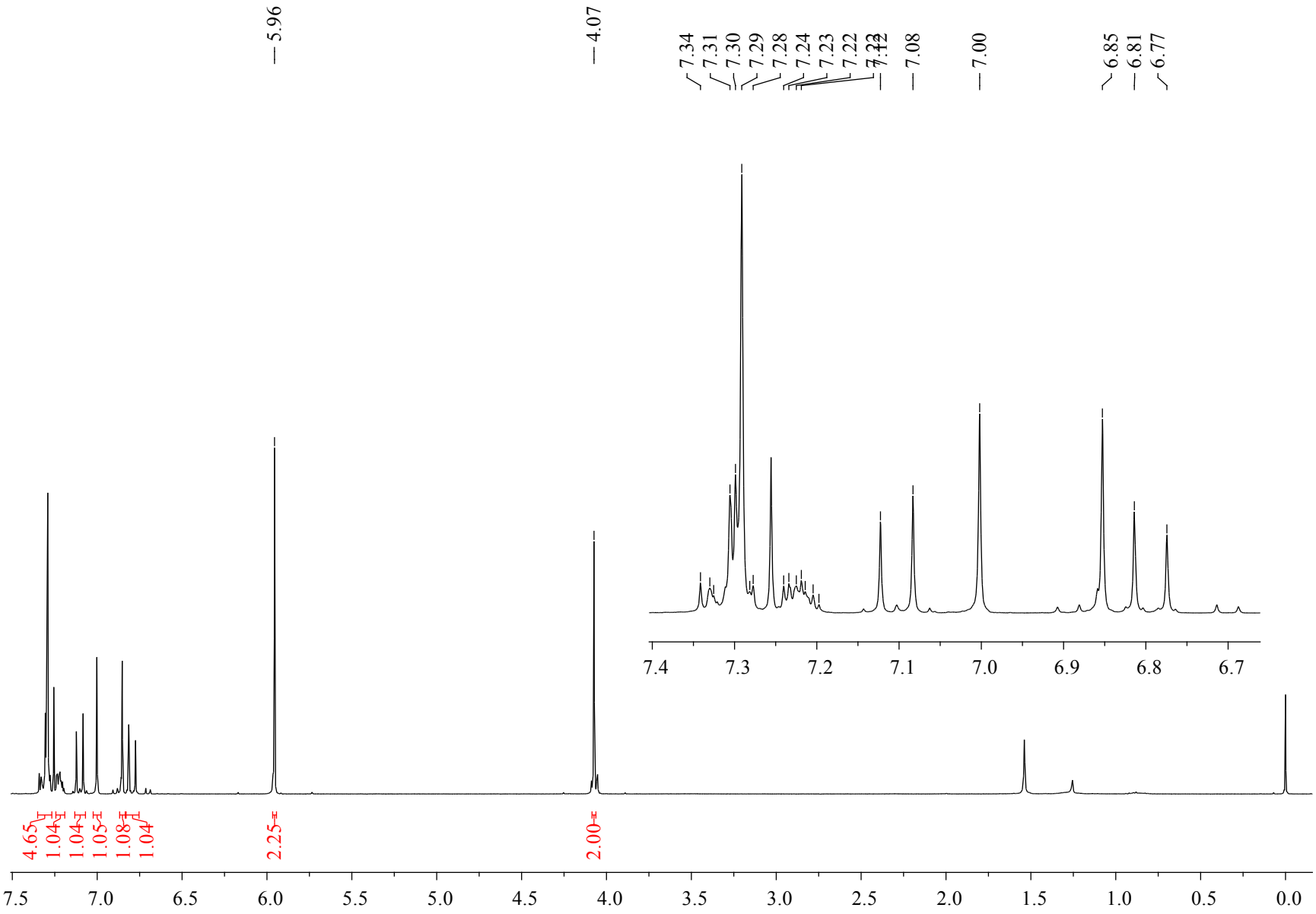
^{13}C NMR. (*E*)-(2-iodobenzyl)(styryl)selane (4h)



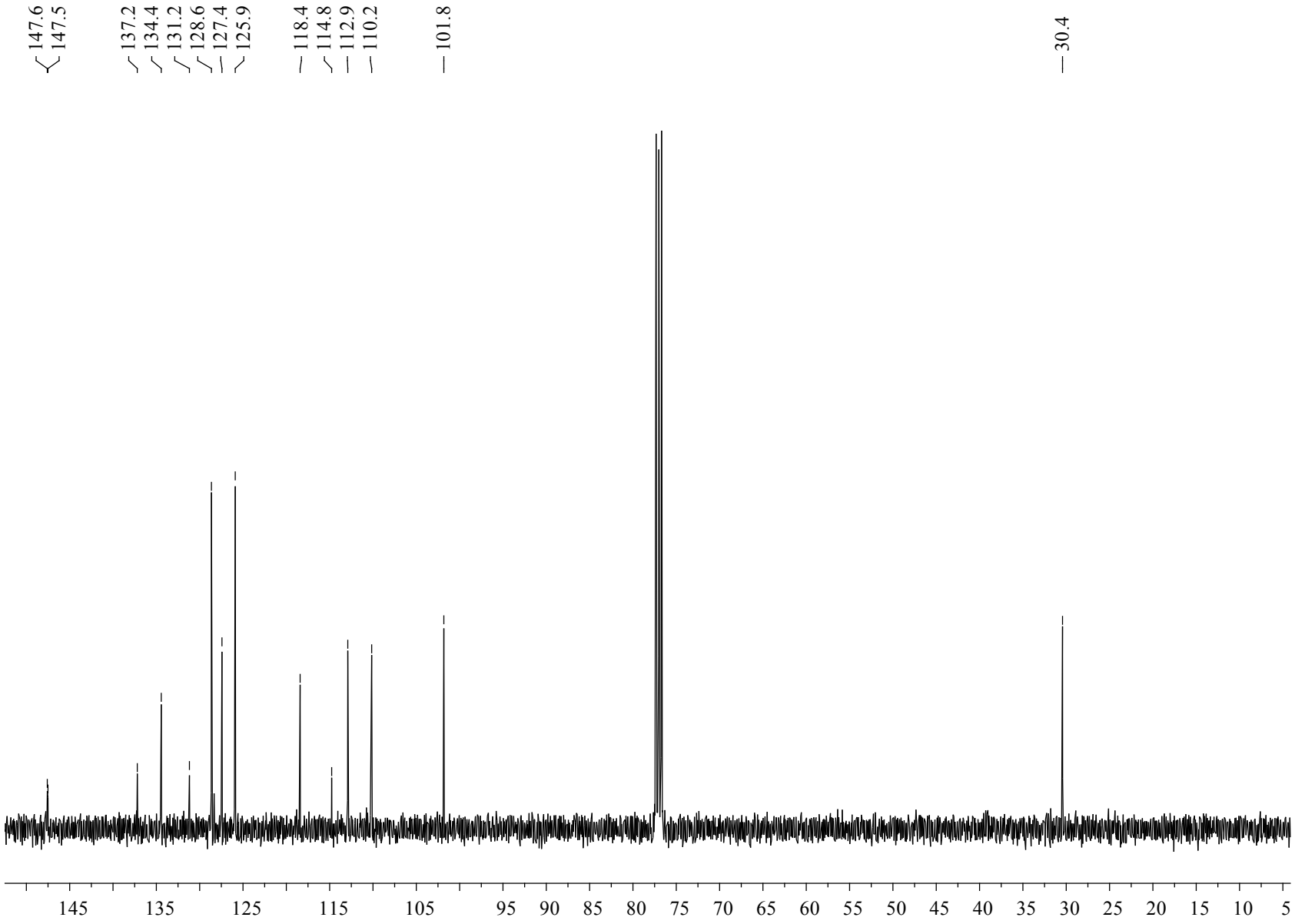
^{77}Se NMR. (*E*)-(2-iodobenzyl)(styryl)selane (4h)



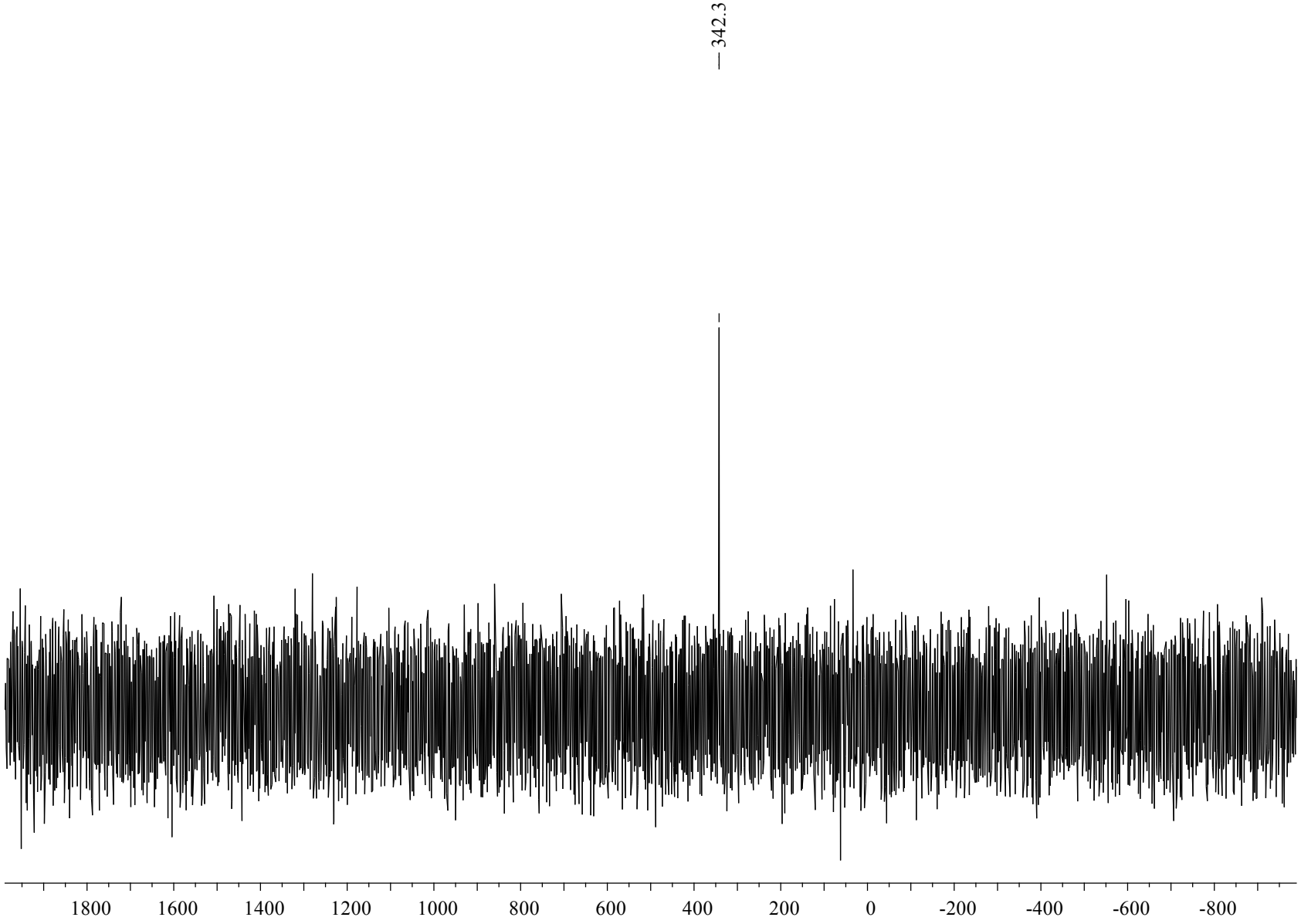
^{1}H NMR. (*E*)-5-bromo-6-((styrylselanyl)methyl)benzo[d][1,3]dioxole (4i)



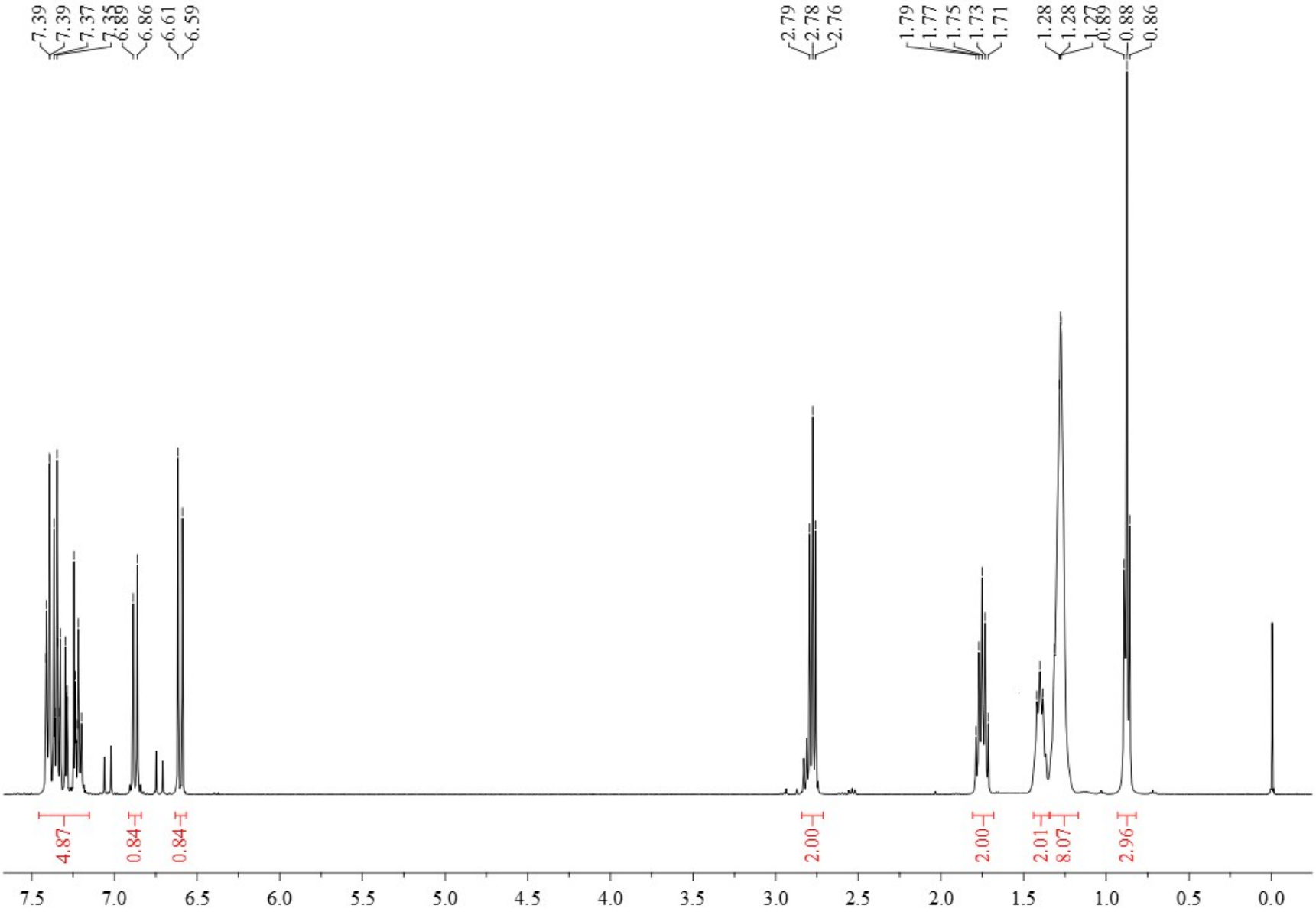
^{13}C NMR .(*E*)-5-bromo-6-((styrylselanyl)methyl)benzo[d][1,3]dioxole (4i)



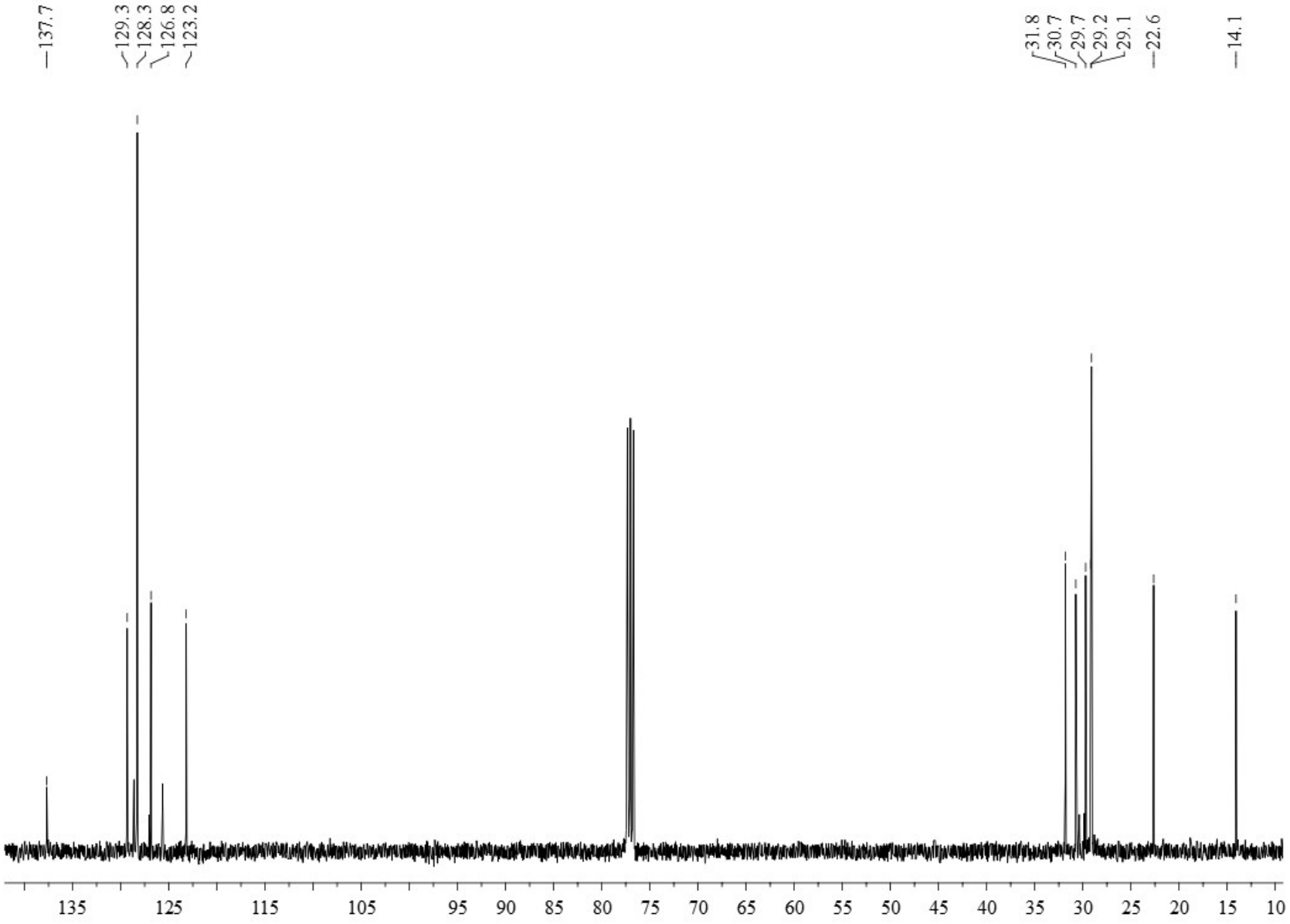
^{77}Se NMR .(*E*)-5-bromo-6-((styrylselanyl)methyl)benzo[d][1,3]dioxole (4i)



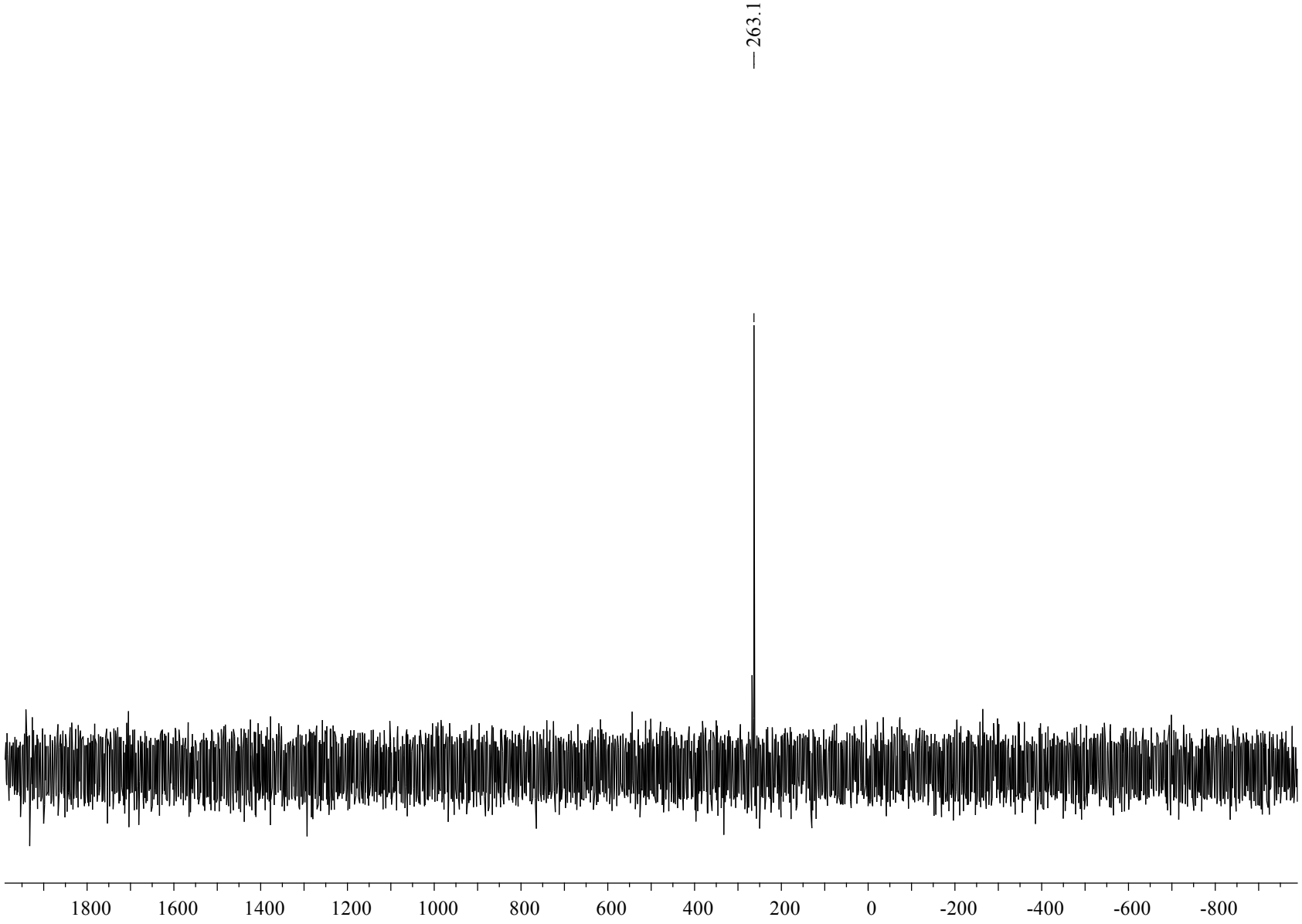
^{1}H NMR. (*Z*)-octyl(styryl)selane (Z4a)



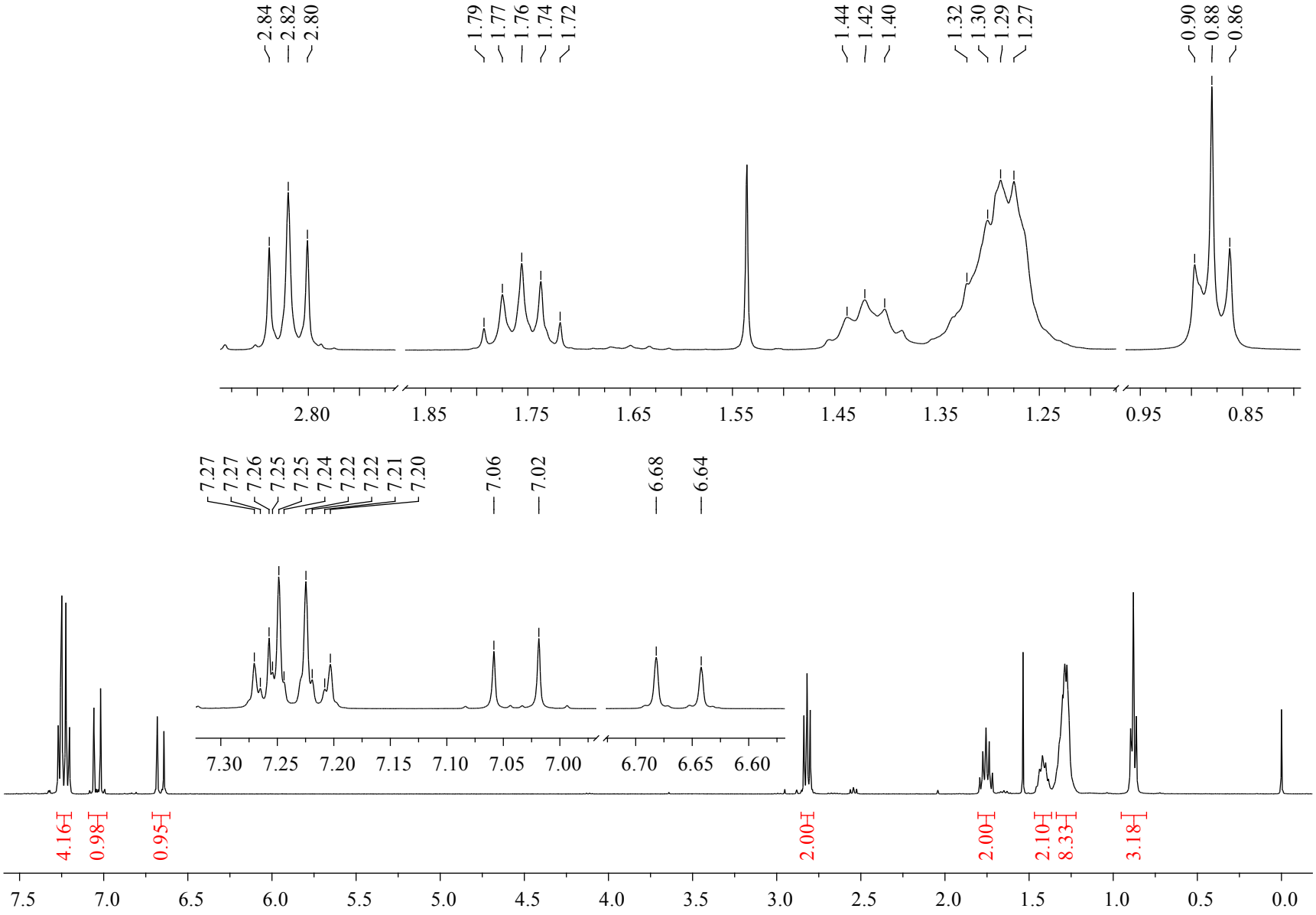
^{13}C NMR. (*Z*)-octyl(styryl)selane (Z4a)



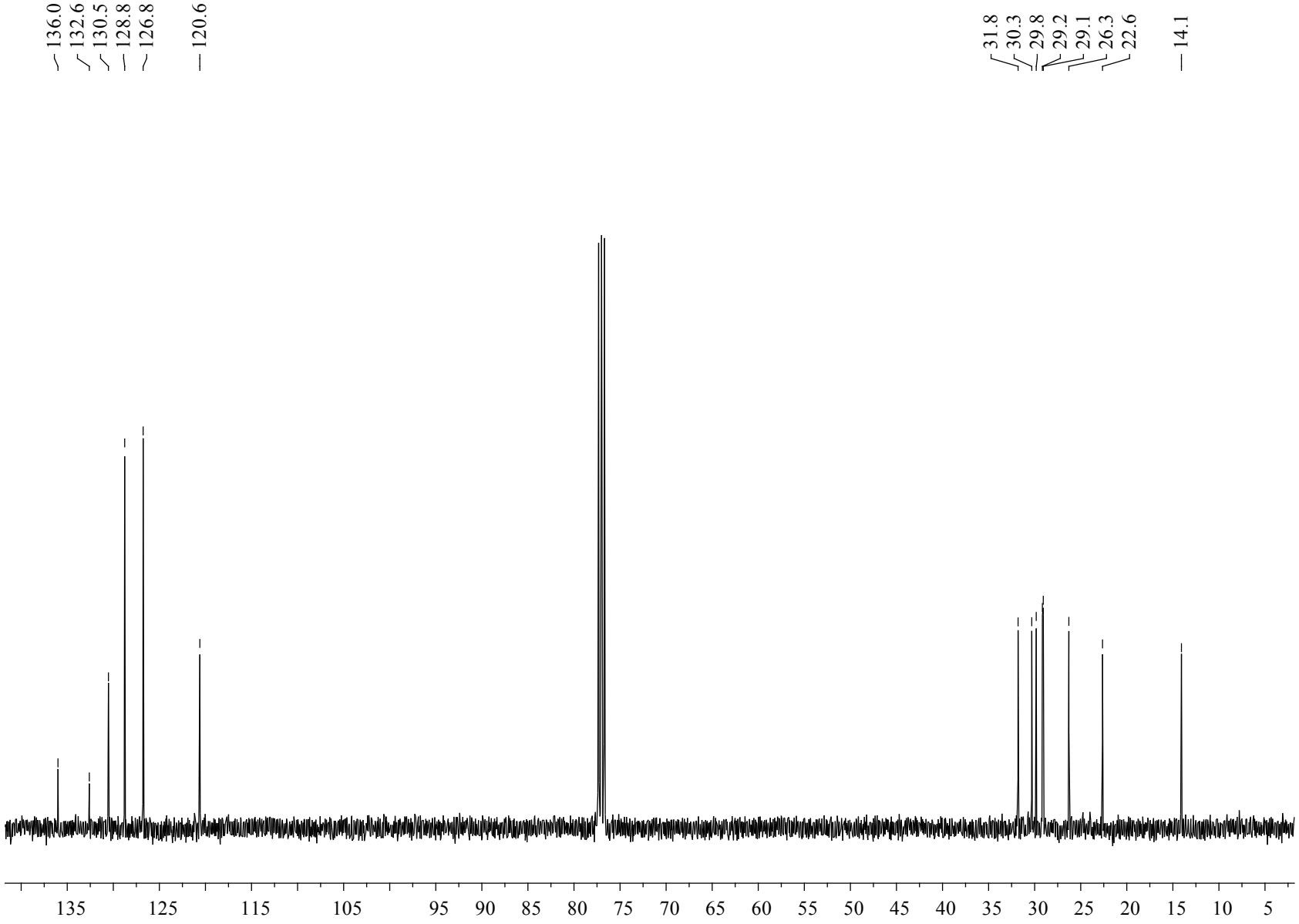
^{77}Se NMR. (*Z*)-octyl(styryl)selane (Z4a)



^{1}H NMR. (*E*)-(4-chlorostyryl)(octyl)selane (4j)



^{13}C NMR. (*E*)-(4-chlorostyryl)(octyl)selane (4j)



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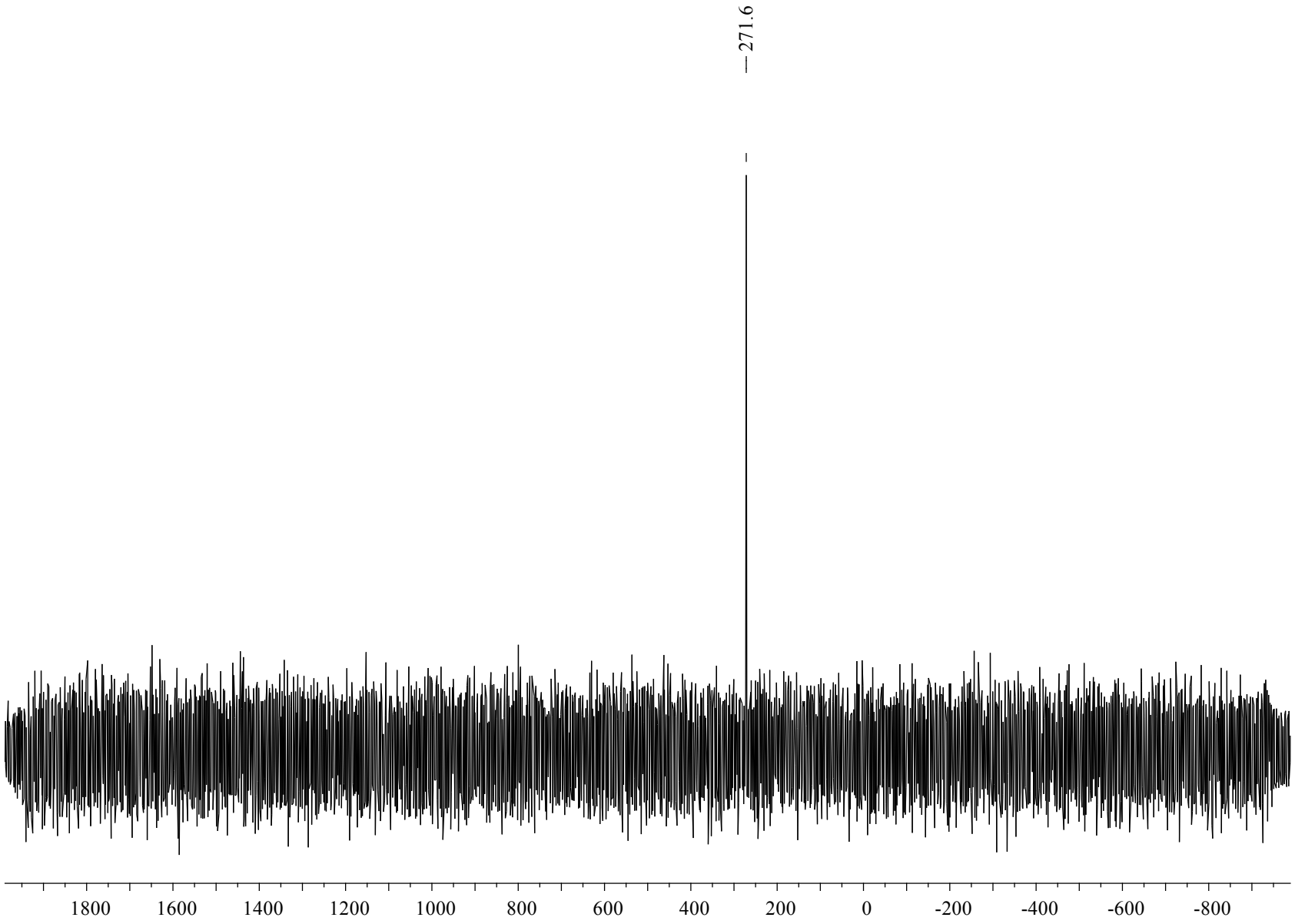
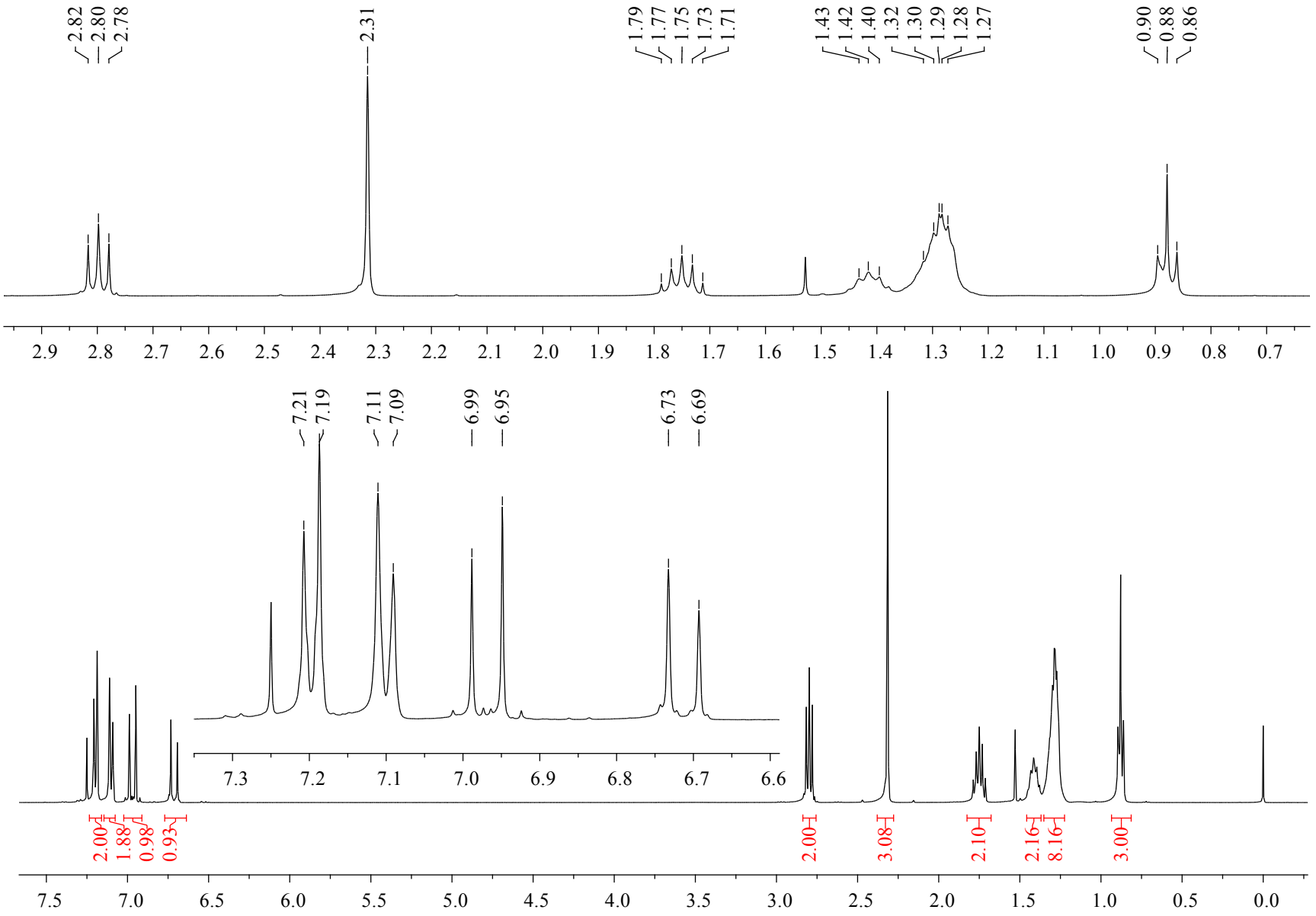
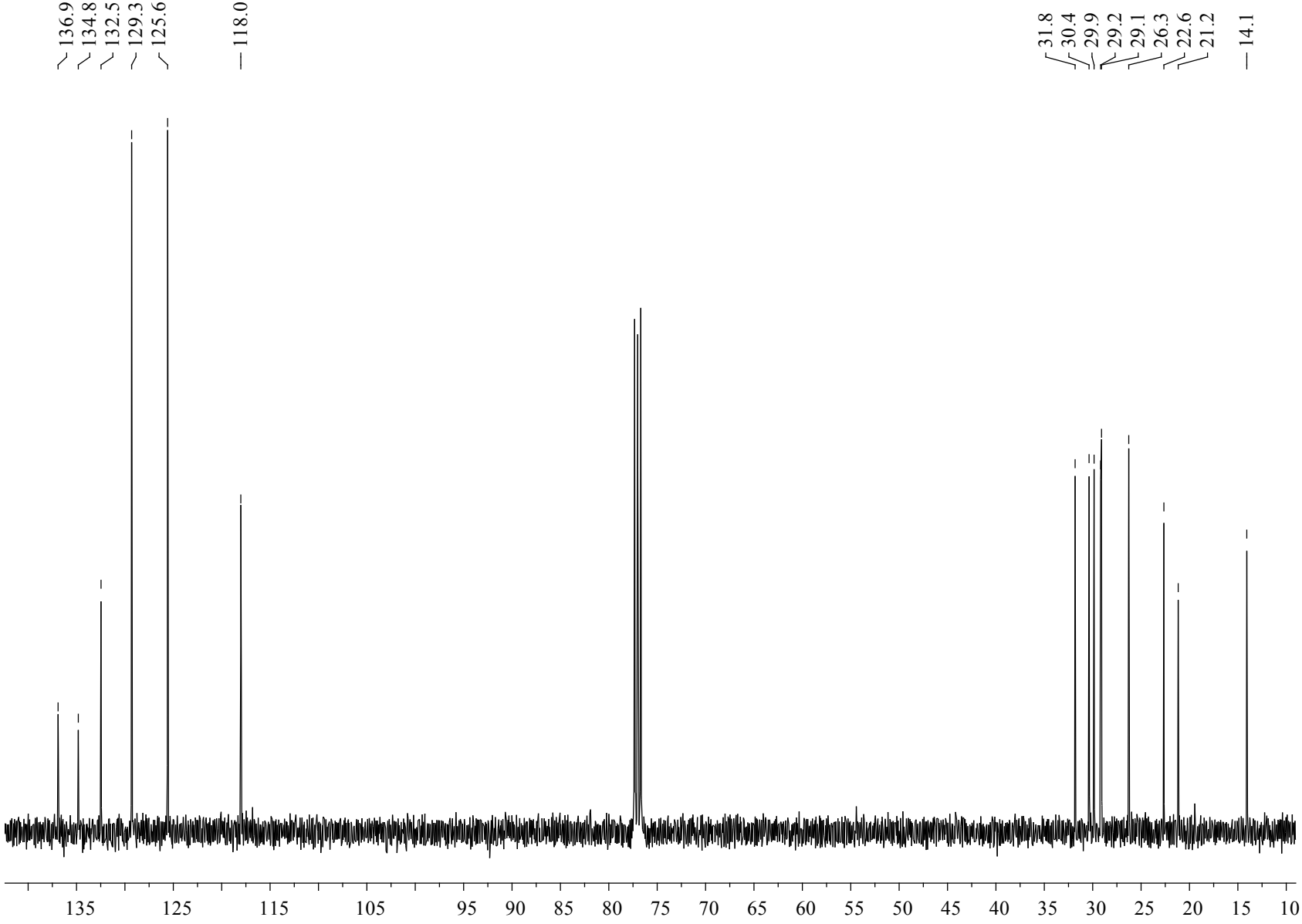


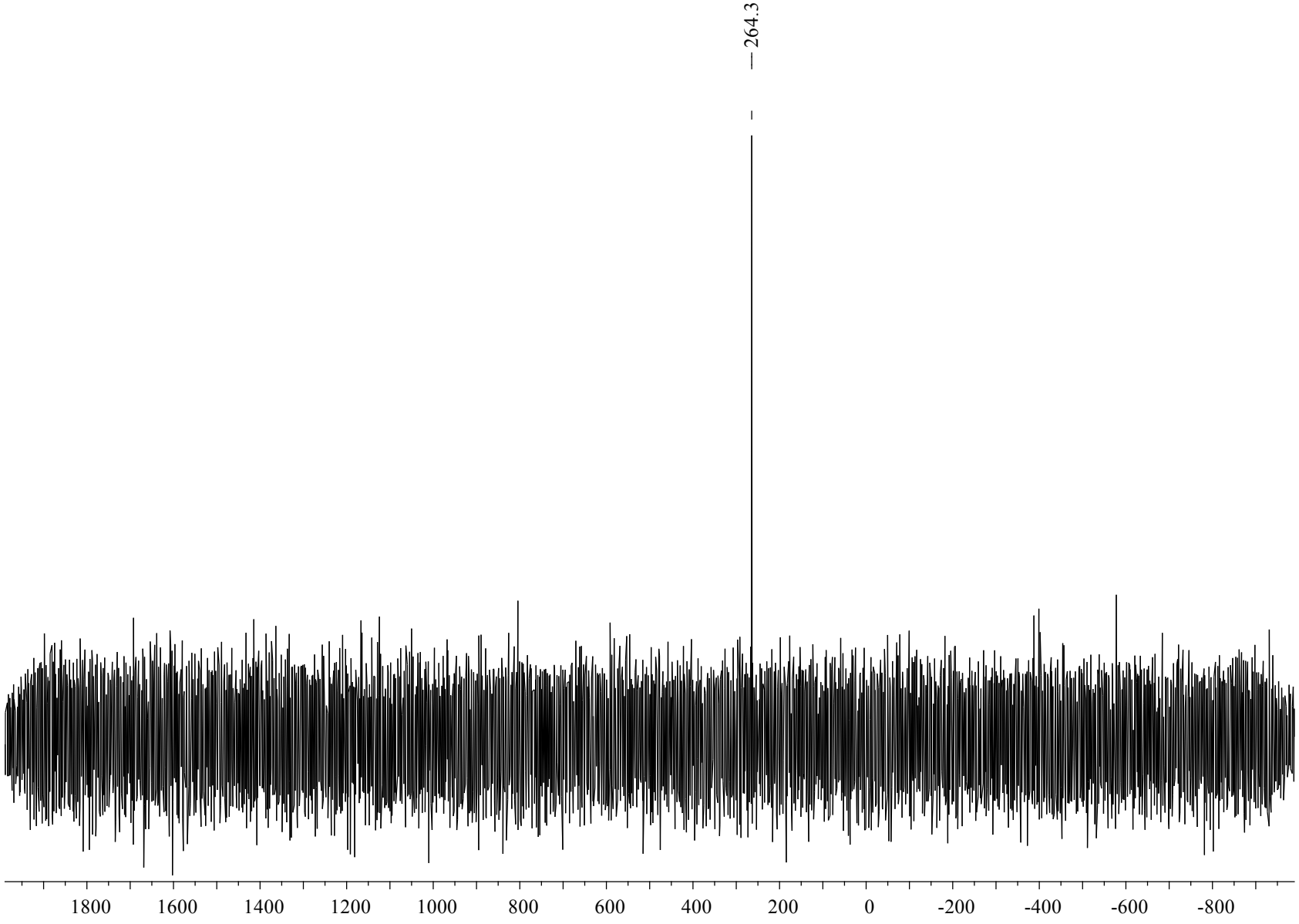
^{1}H NMR. (*E*)-(4-methylstyryl)(octyl)selane (4k)



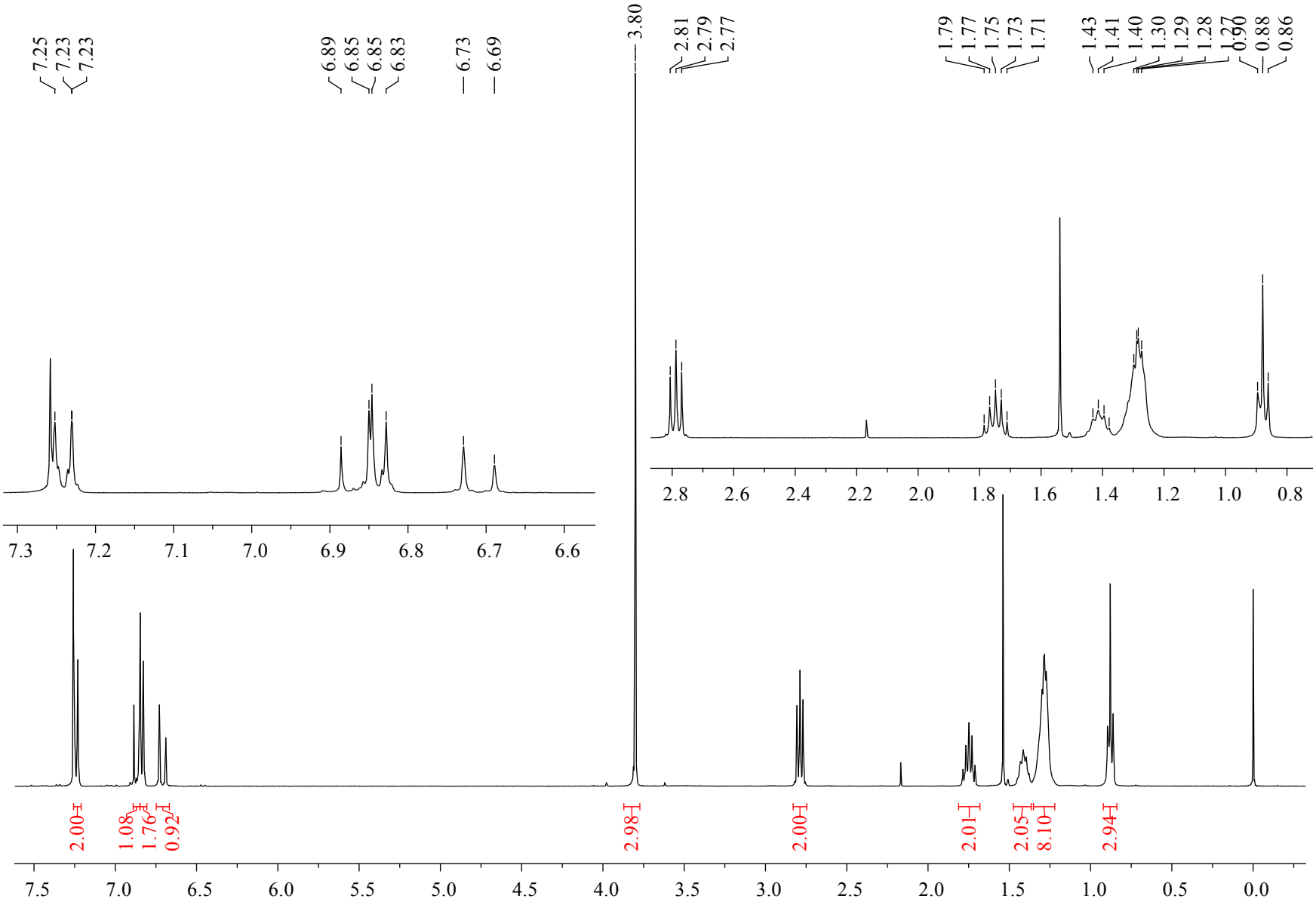
^{13}C NMR. (*E*)-(4-methylstyryl)(octyl)selane (4k)



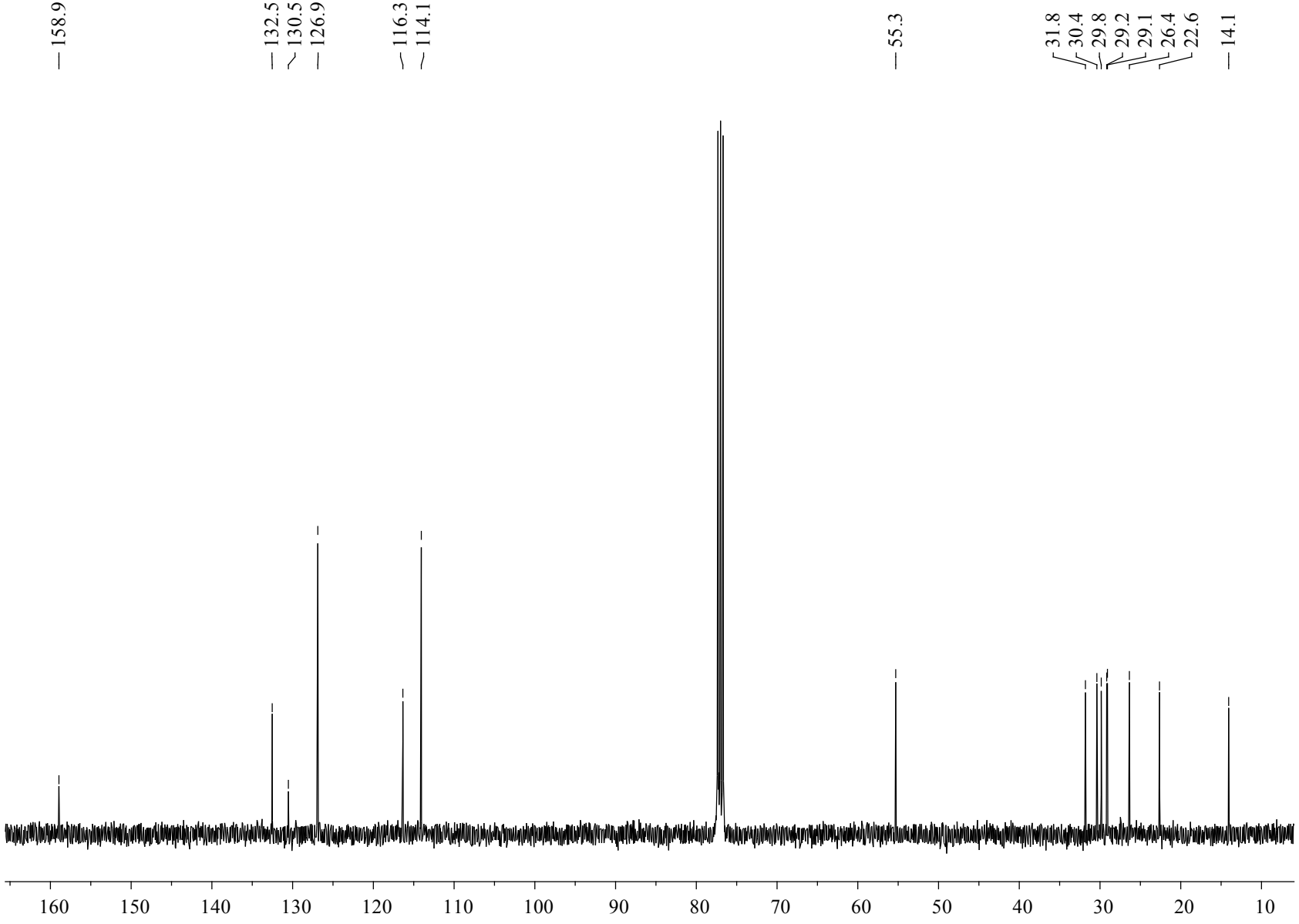
^{77}Se NMR. (*E*)-(4-methylstyryl)(octyl)selane (4k)



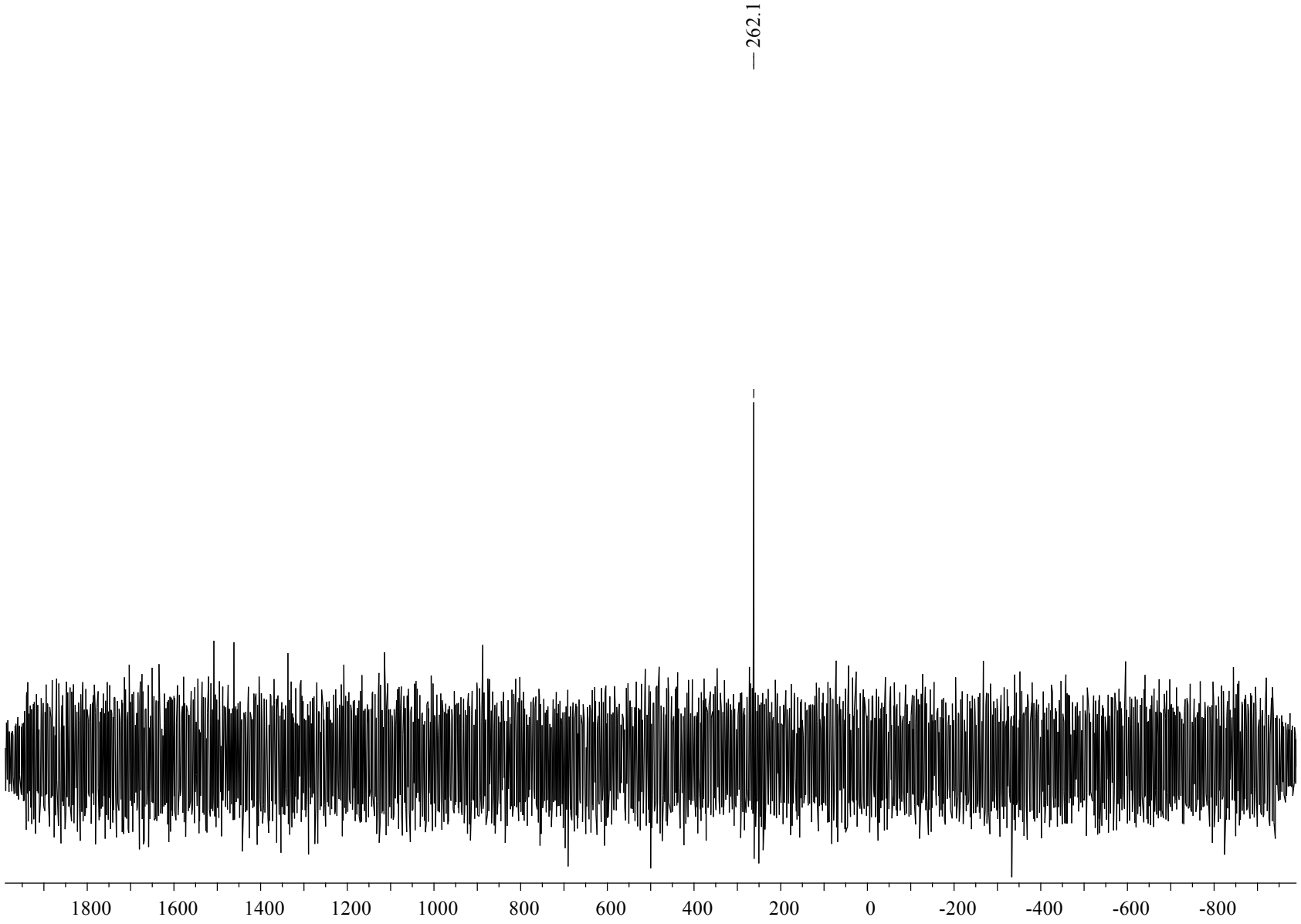
^{1}H NMR. (*E*)-(4-methoxystyryl)(octyl)selane (4l)



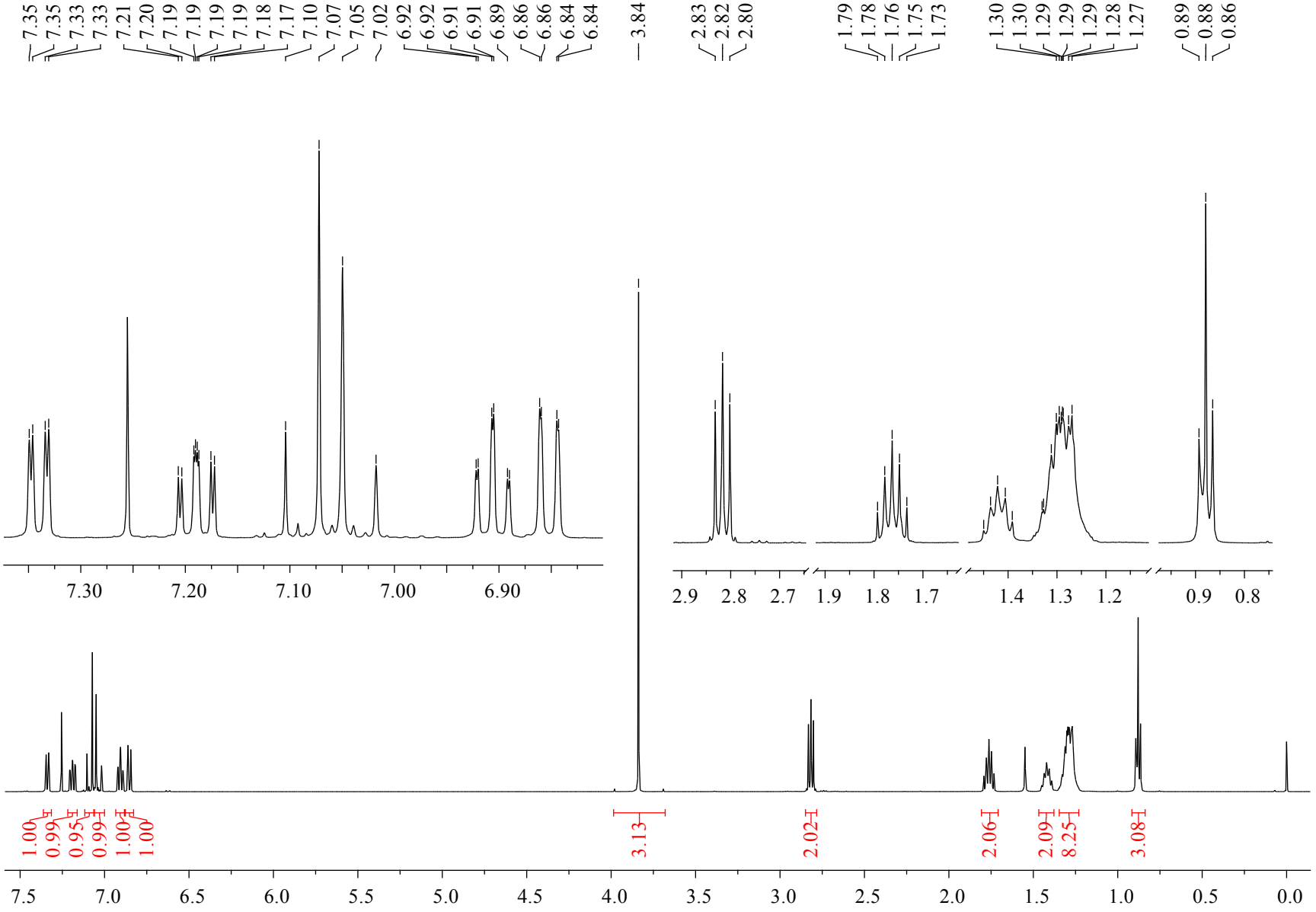
^{13}C NMR. (*E*)-(4-methoxystyryl)(octyl)selane (4l)



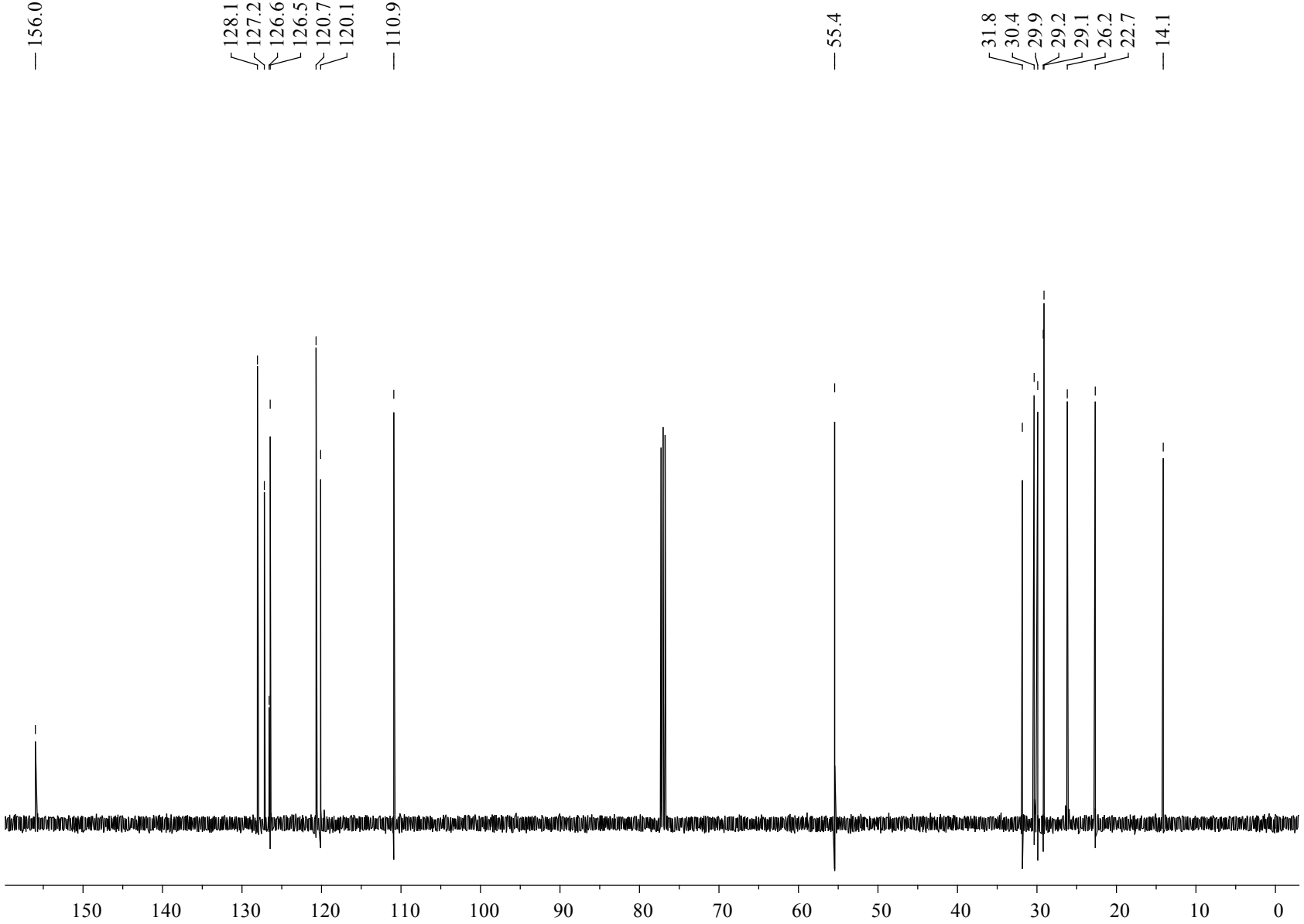
^{77}Se NMR. (*E*)-(4-methoxystyryl)(octyl)selane (4l)



^{1}H NMR. (*E*)-(2-methoxystyryl)(octyl)selane (4m)



^{13}C NMR. (*E*)-(2-methoxystyryl)(octyl)selane (4m)



^{77}Se NMR. (*E*)-(2-methoxystyryl)(octyl)selane (4m)