

Supporting Information

Metal-free Insertion Reactions of Silanes with Aryldiazoacetates

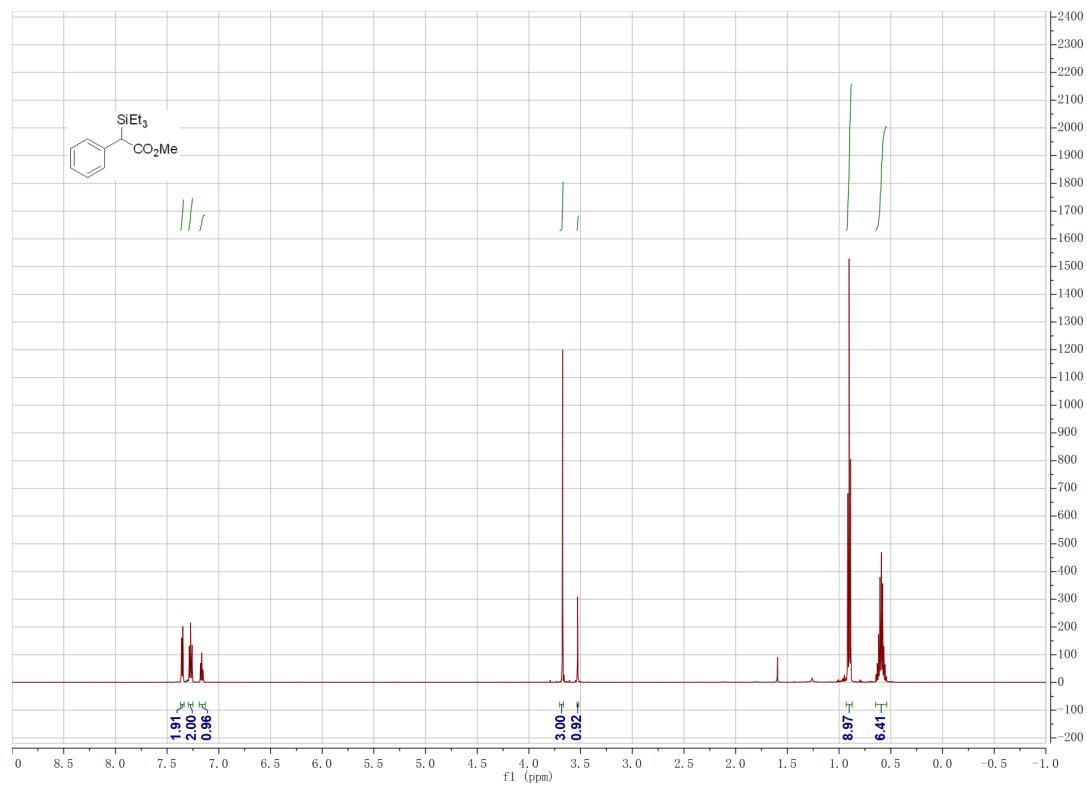
Feifei He, Fang Li and Rene M. Koenigs*

rene.koenigs@rwth-aachen.de

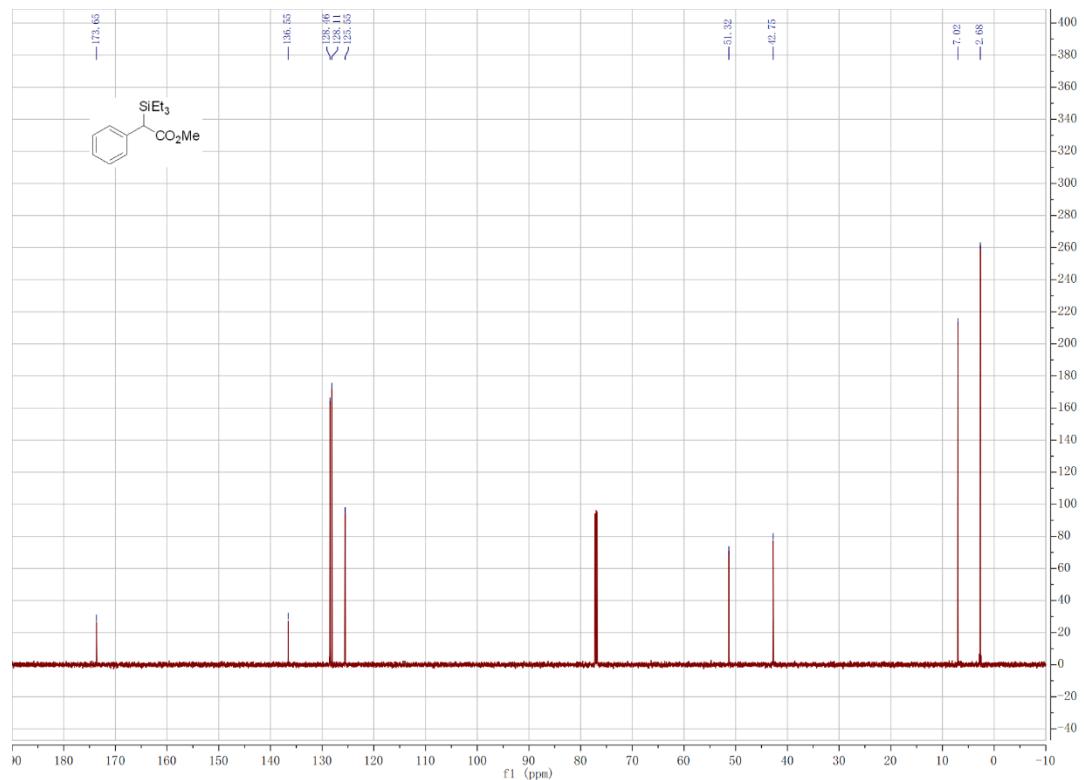
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Spectra of Compounds
methyl 2-phenyl-2-(triethylsilyl)acetate (3aa)
¹H NMR (600 MHz, Chloroform-*d*)

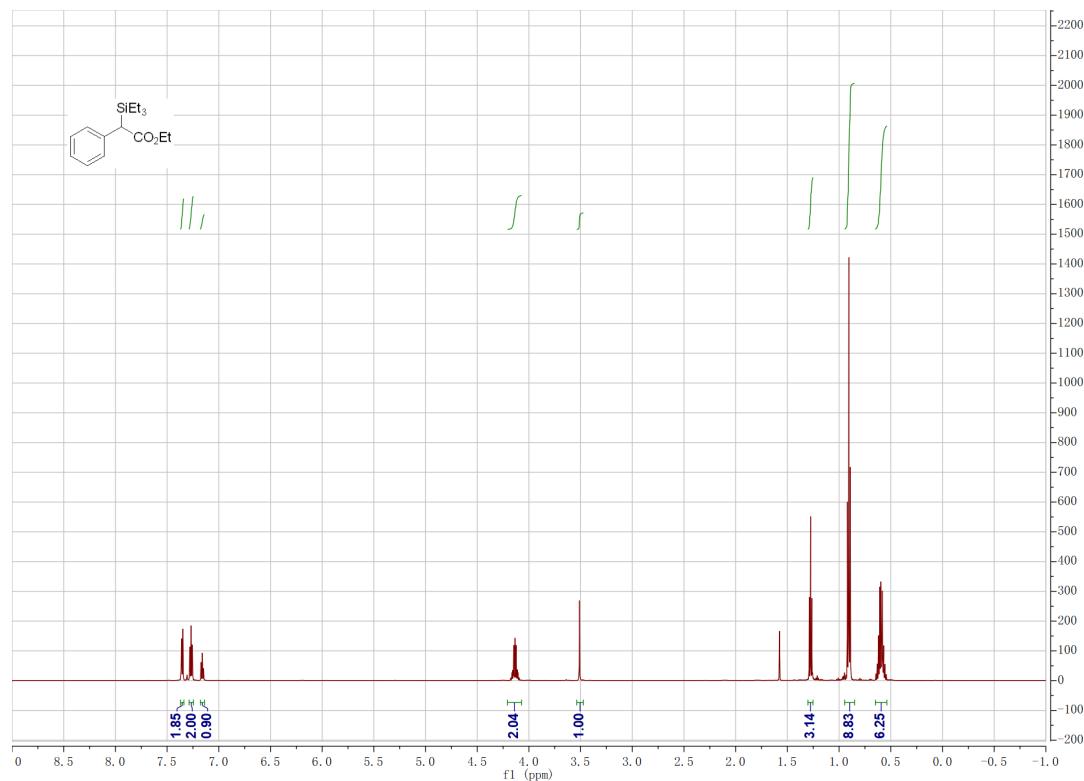


¹³C NMR (151 MHz, Chloroform-*d*)

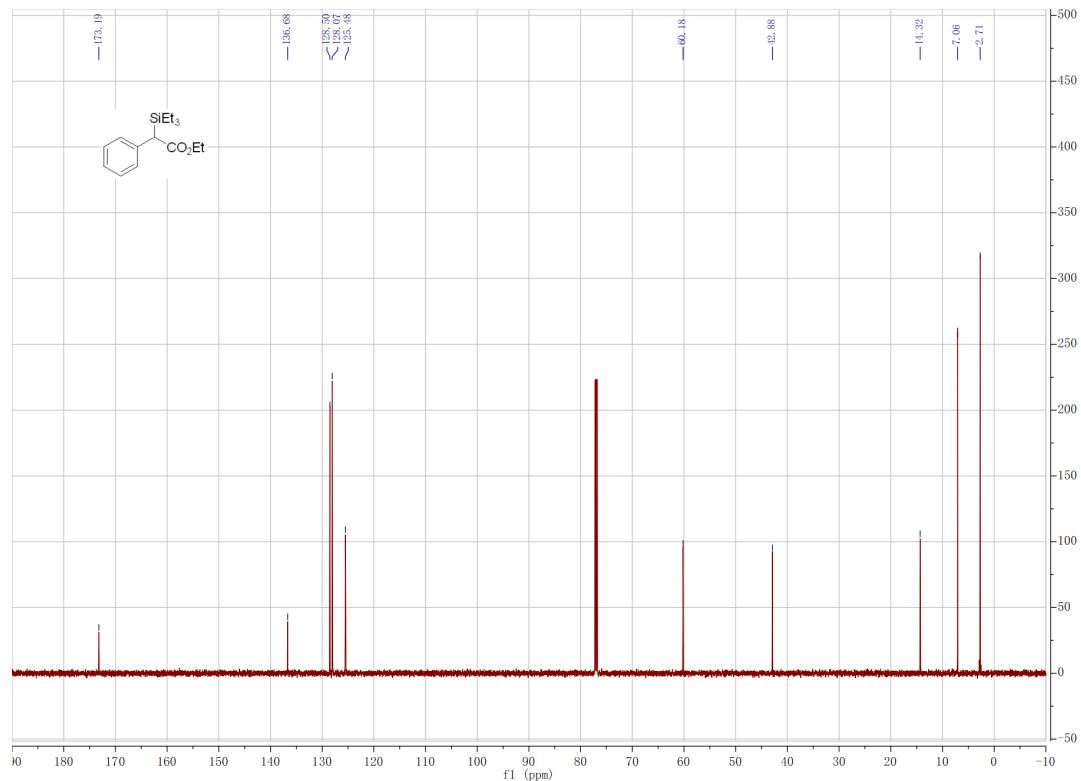


ethyl 2-phenyl-2-(triethylsilyl)acetate (3ab)

¹H NMR (600 MHz, Chloroform-d)

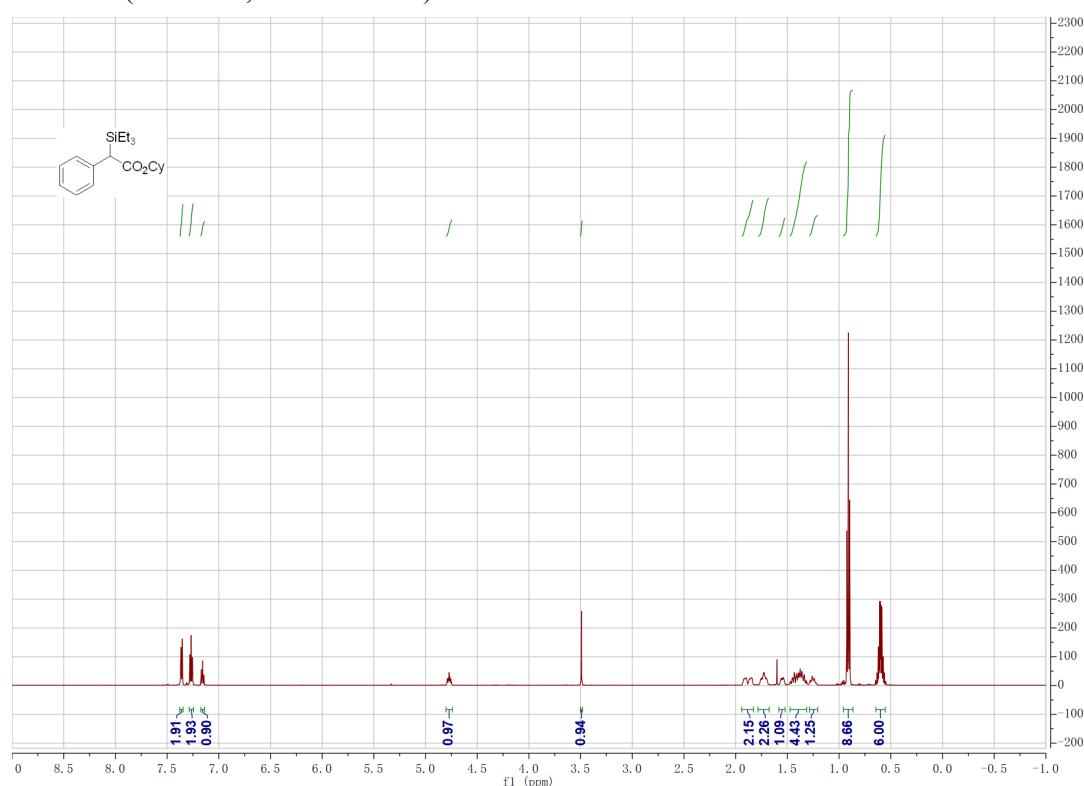


¹³C NMR (151 MHz, Chloroform-d)

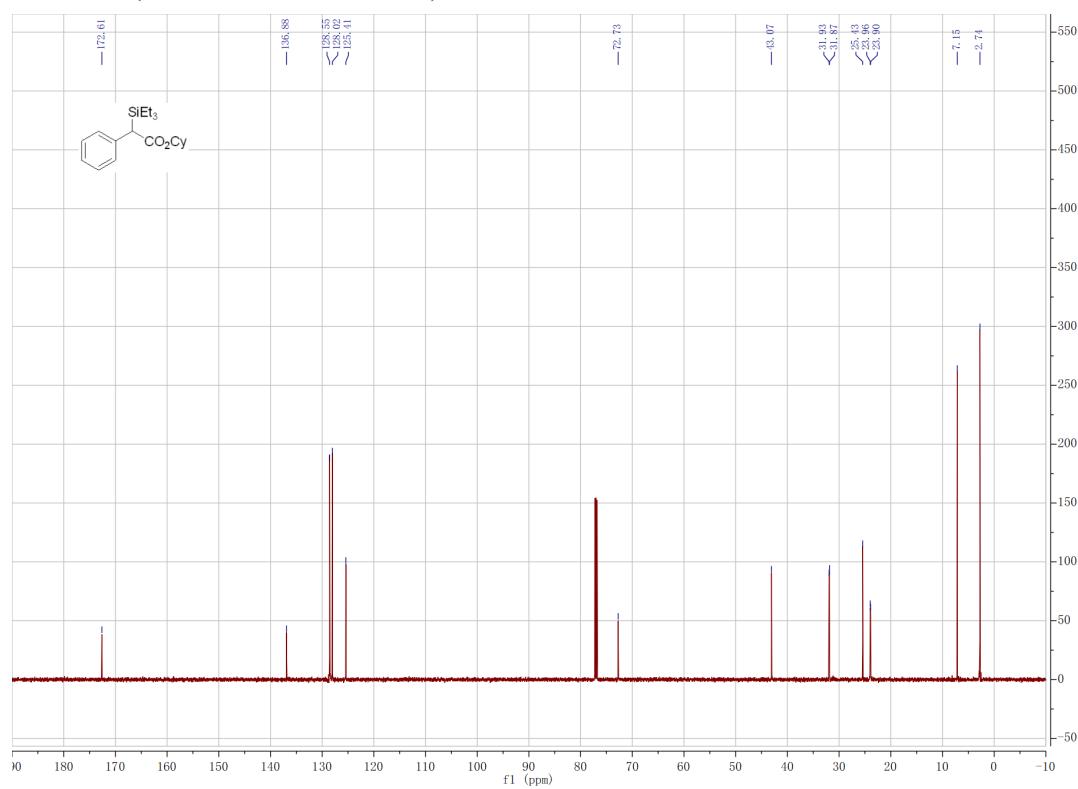


cyclohexyl 2-phenyl-2-(triethylsilyl)acetate (3ac)

¹H NMR (600 MHz, Chloroform-d)

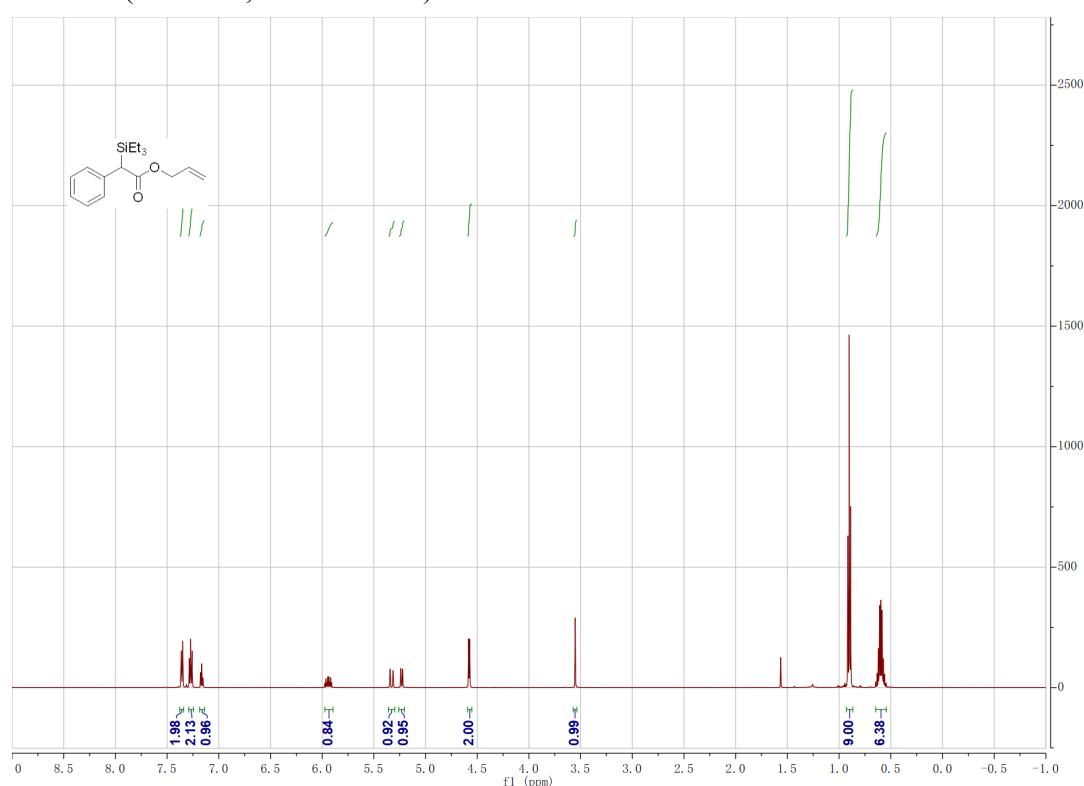


¹³C NMR (151 MHz, Chloroform-d)

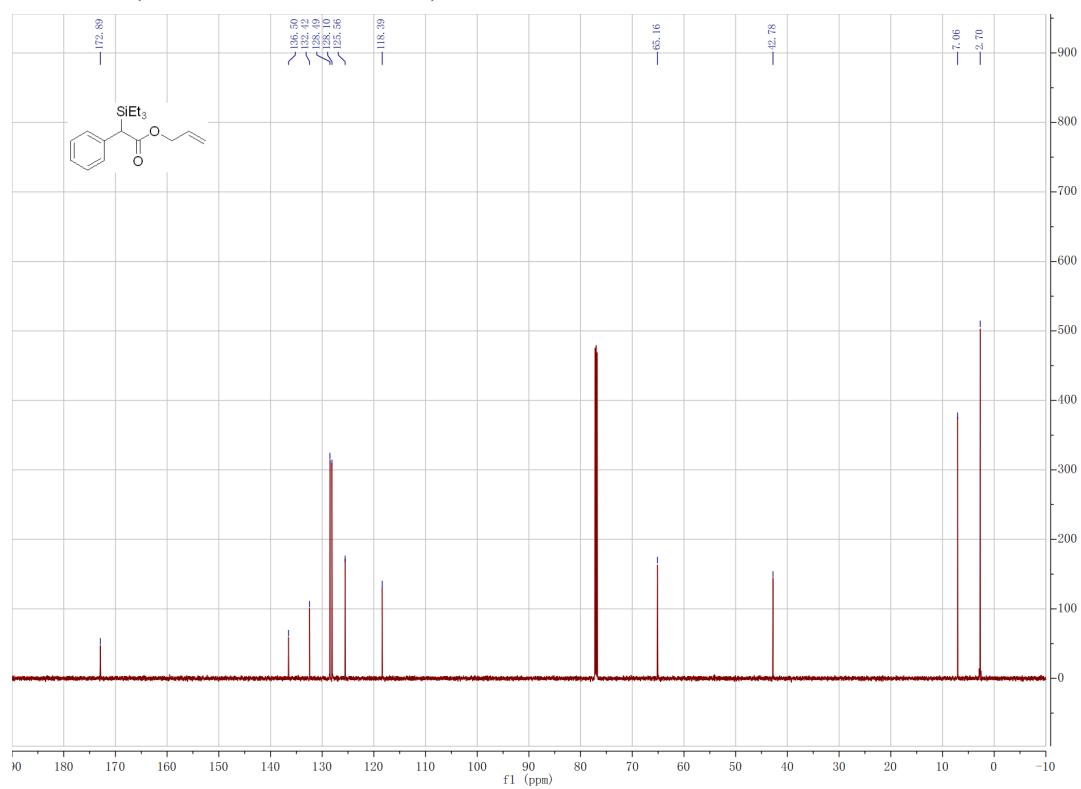


vinyl 2-phenyl-2-(triethylsilyl)acetate (3ad)

¹H NMR (600 MHz, Chloroform-d)

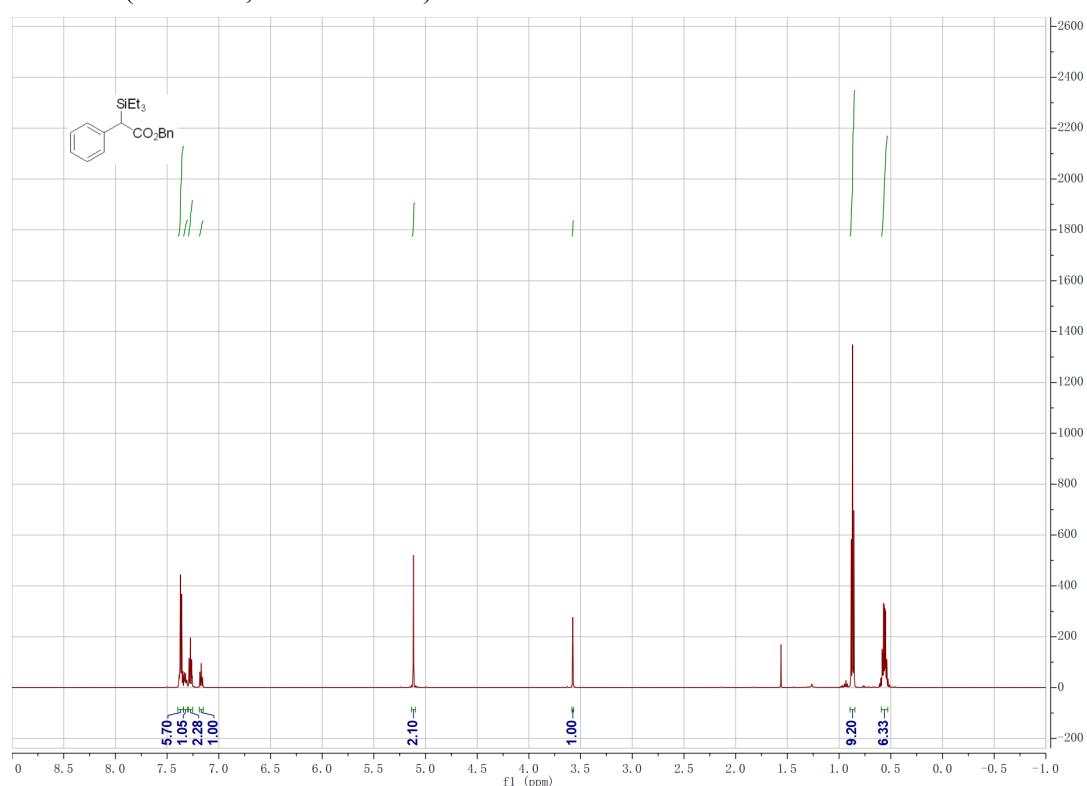


¹³C NMR (151 MHz, Chloroform-d)

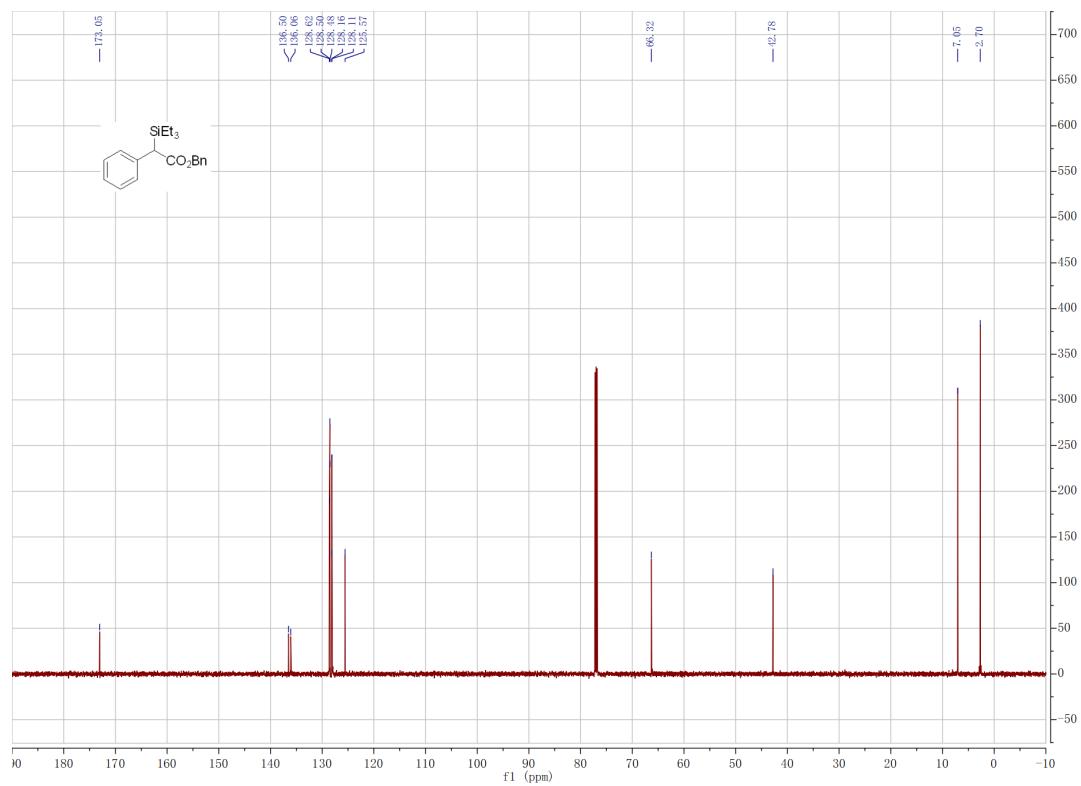


benzyl 2-phenyl-2-(triethylsilyl)acetate (3ae)

¹H NMR (600 MHz, Chloroform-d)

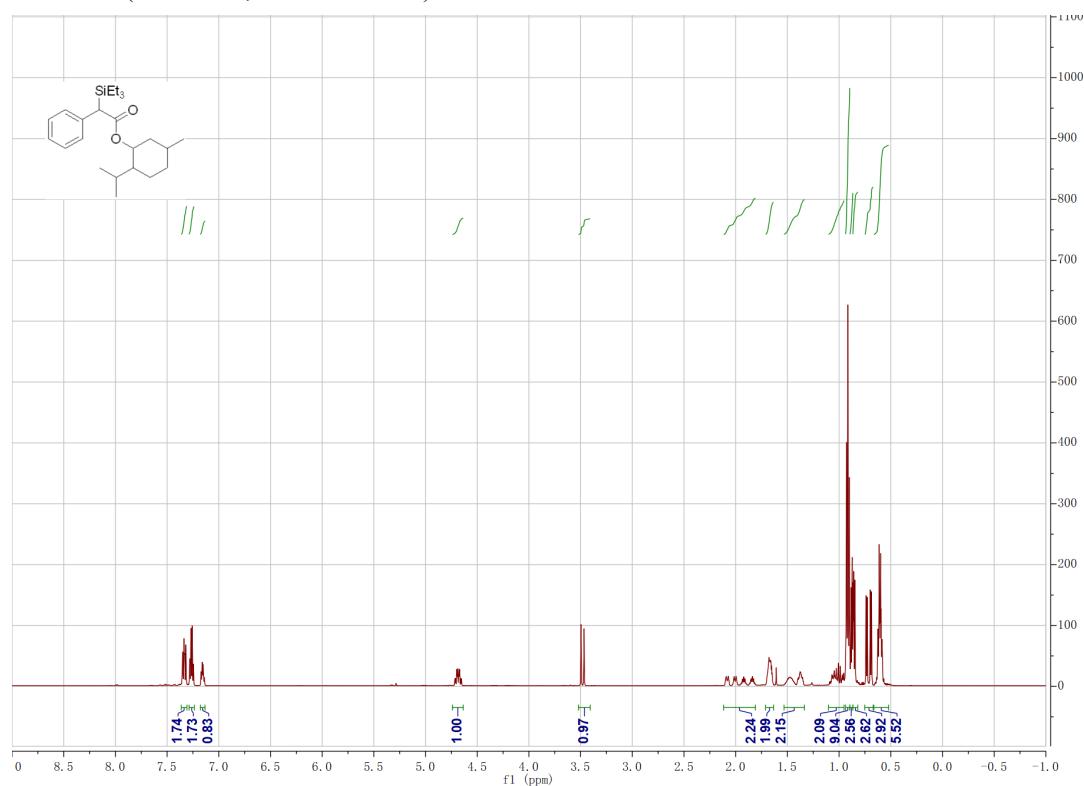


¹³C NMR (151 MHz, Chloroform-d)

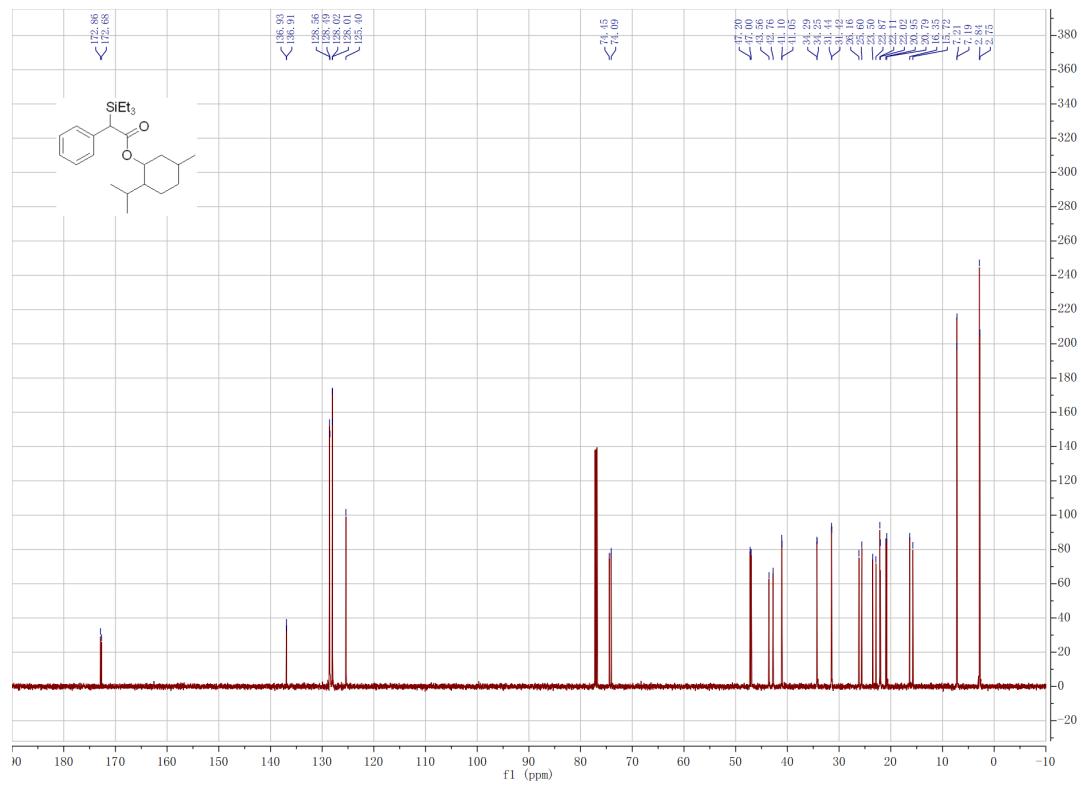


2-isopropyl-5-methylcyclohexyl 2-phenyl-2-(triethylsilyl)acetate (3af)

^1H NMR (600 MHz, Chloroform-*d*)

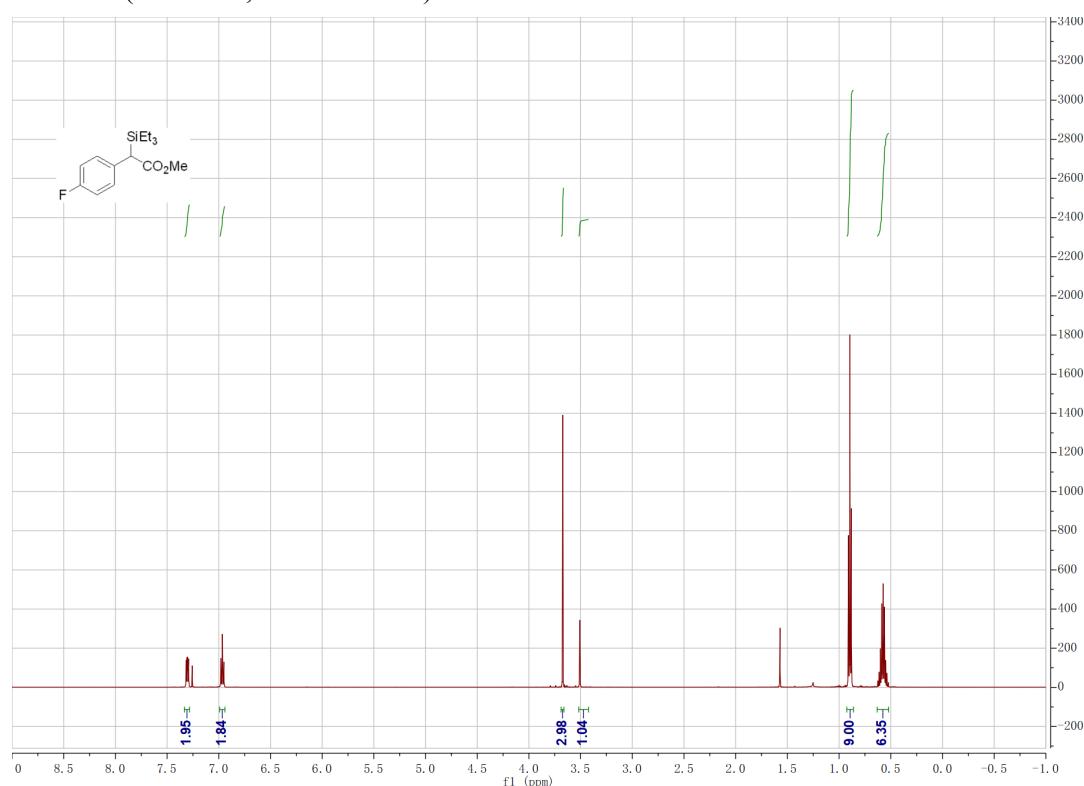


^{13}C NMR (151 MHz, Chloroform-*d*)

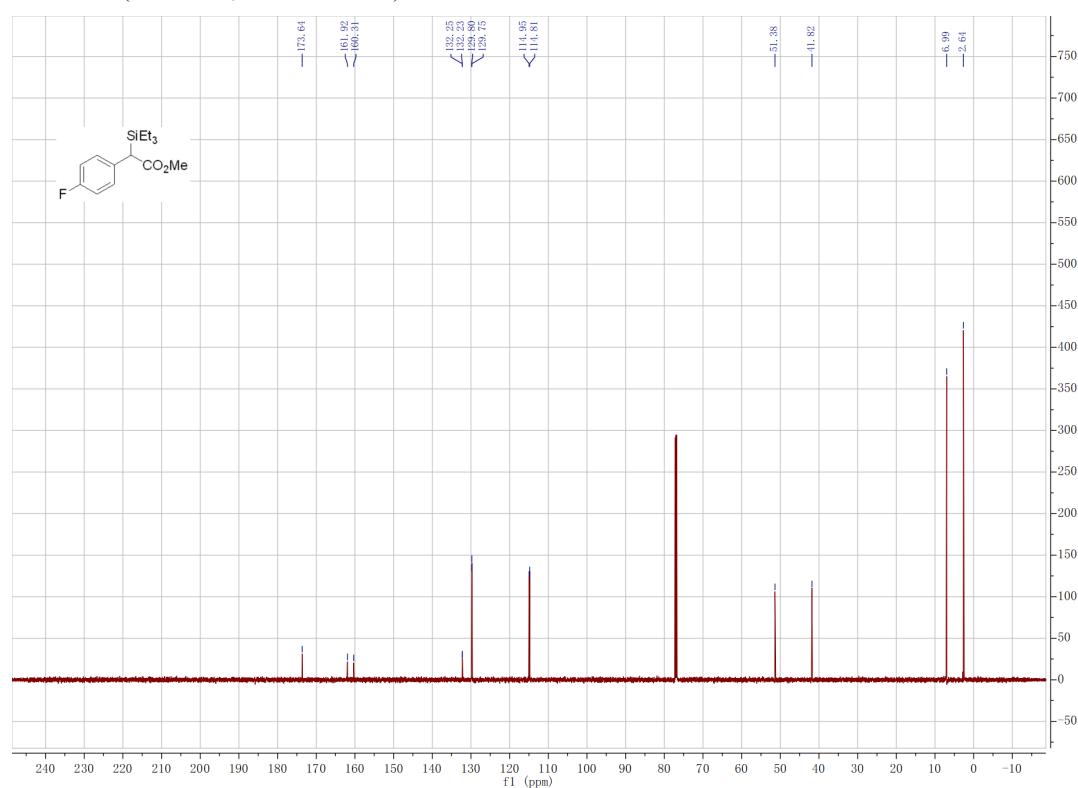


methyl 2-(4-fluorophenyl)-2-(triethylsilyl)acetate (3ag)

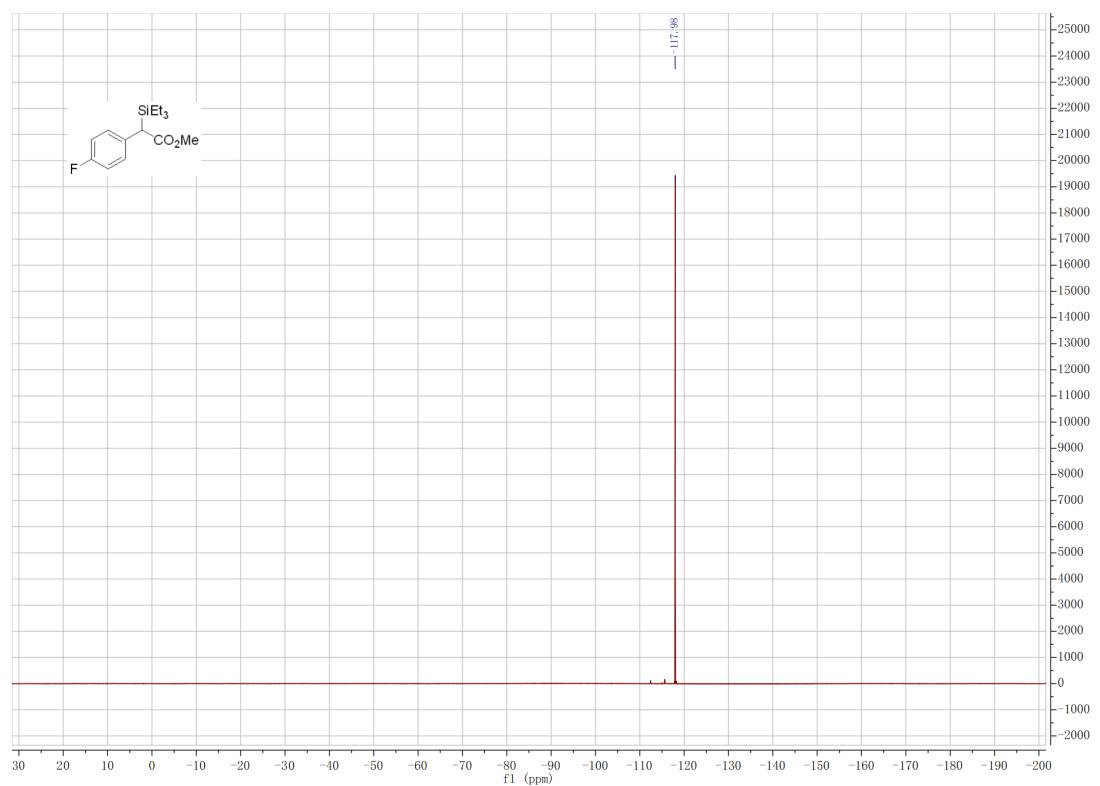
¹H NMR (600 MHz, Chloroform-d)



¹³C NMR (151 MHz, Chloroform-d)

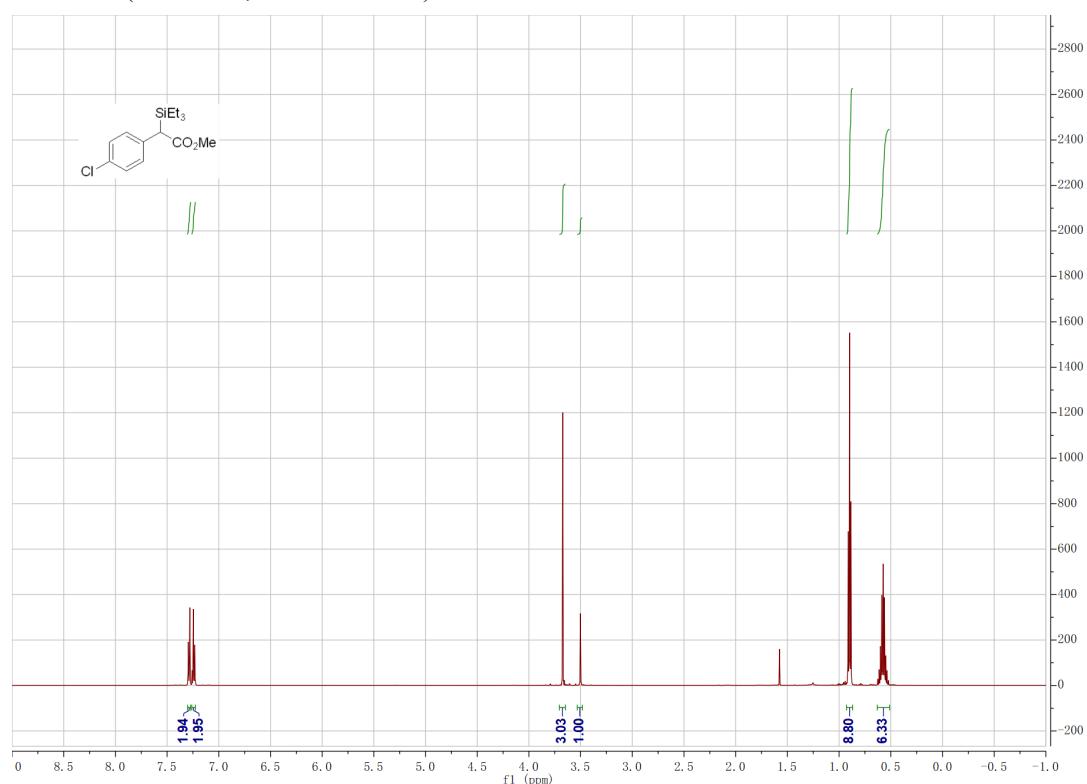


¹⁹F NMR (564 MHz, Chloroform-*d*)

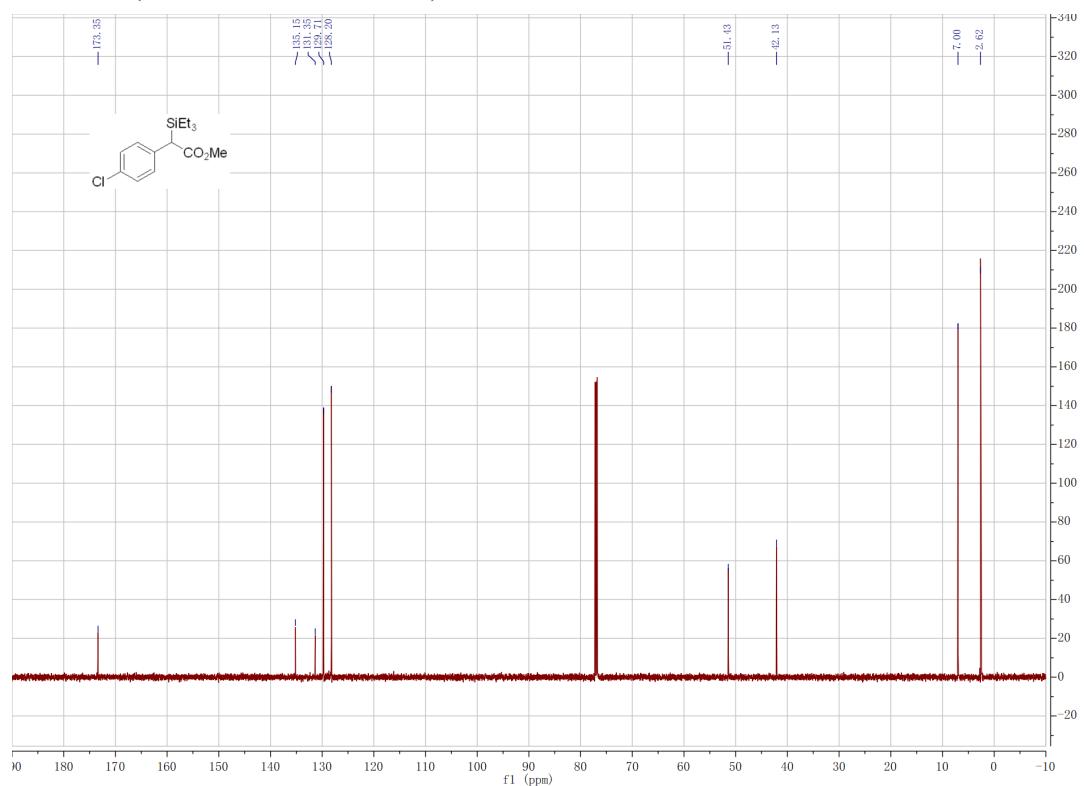


methyl 2-(4-chlorophenyl)-2-(triethylsilyl)acetate (3ah)

¹H NMR (600 MHz, Chloroform-*d*)

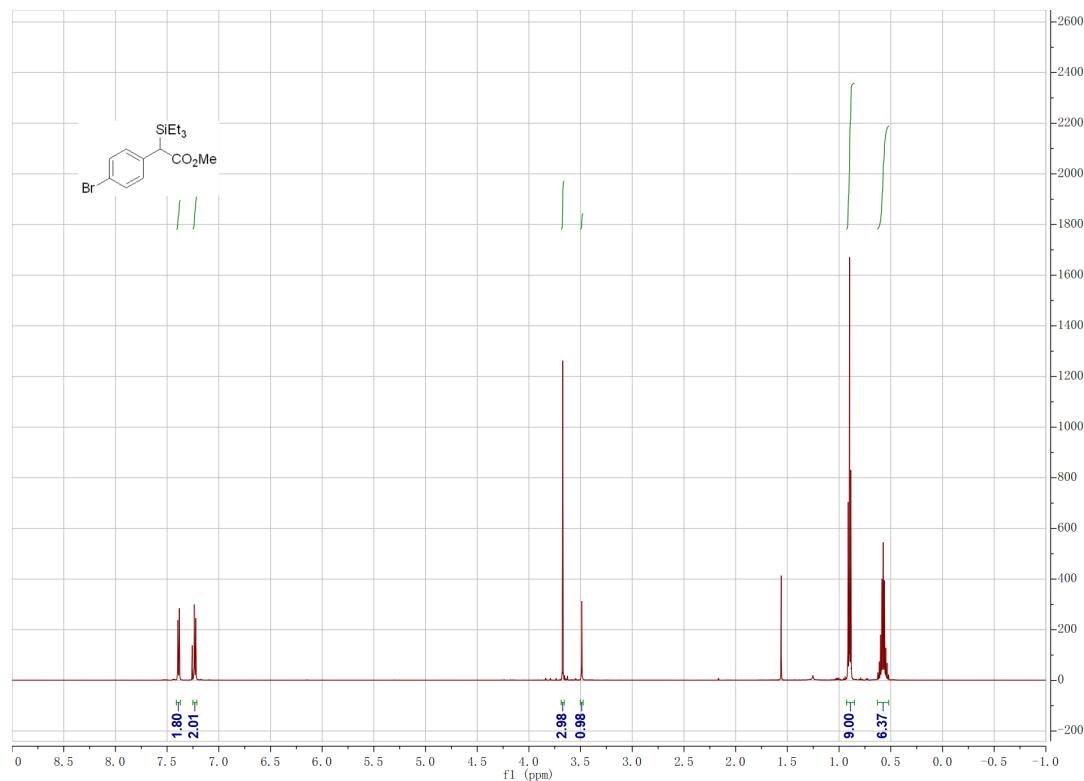


¹³C NMR (151 MHz, Chloroform-*d*)

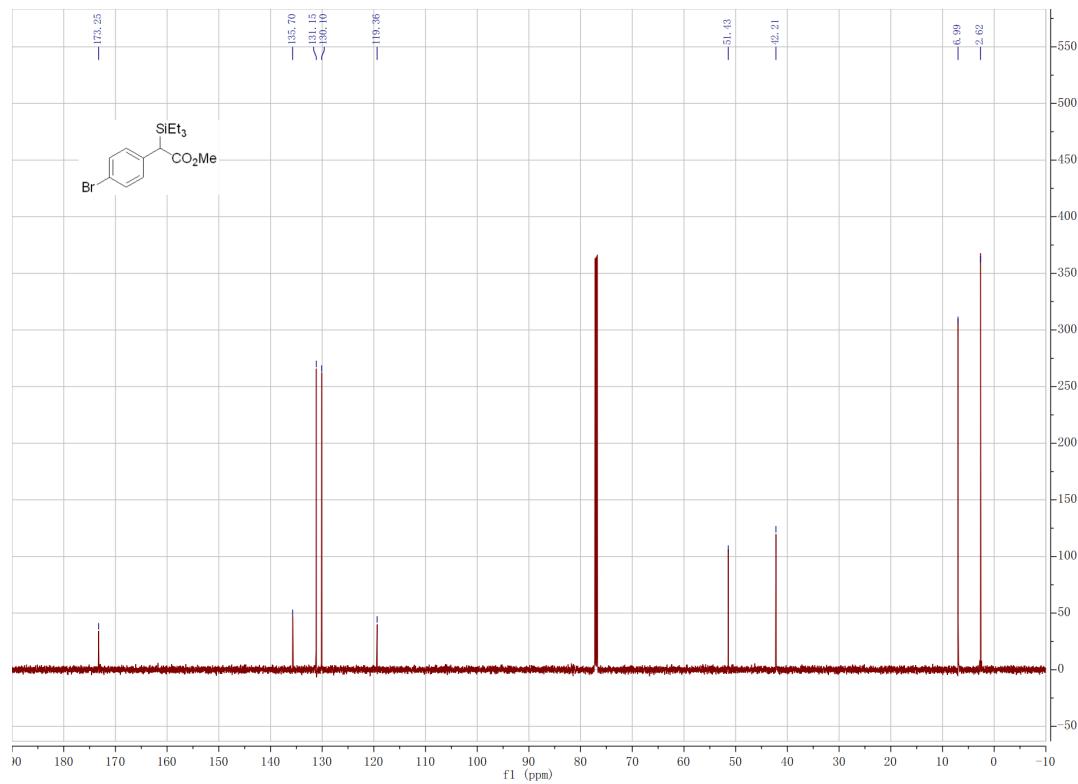


methyl 2-(4-bromophenyl)-2-(triethylsilyl)acetate (3ai)

¹H NMR (600 MHz, Chloroform-d)

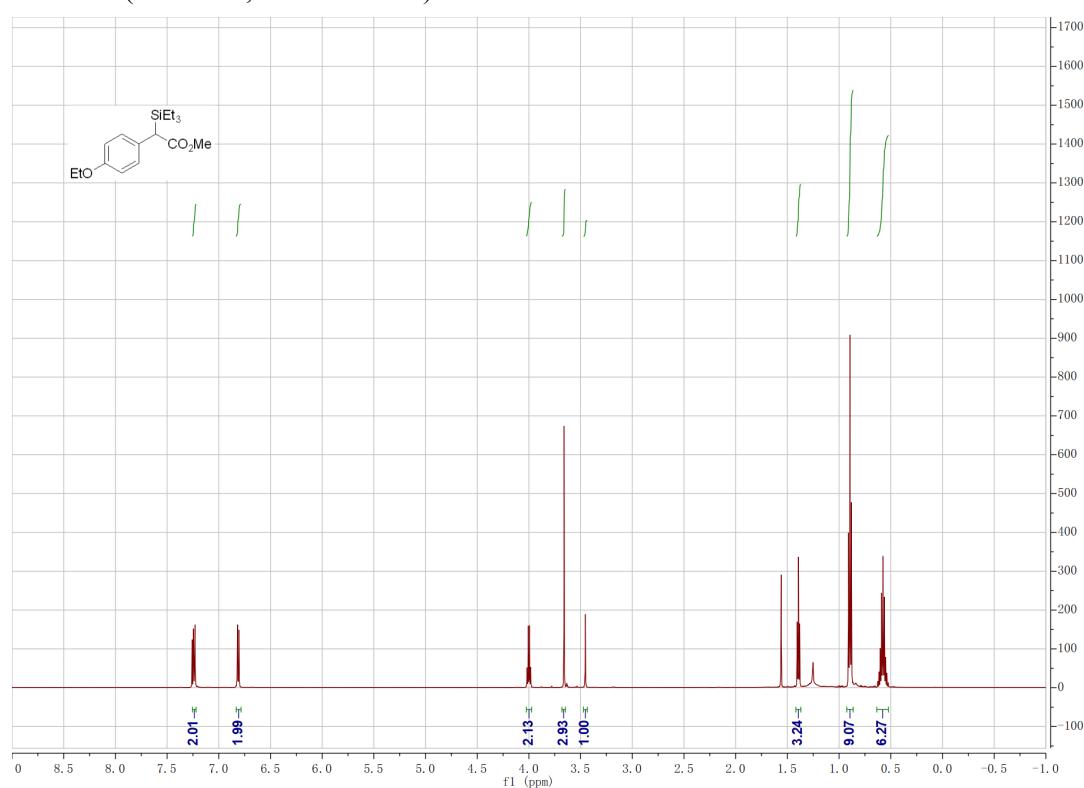


¹³C NMR (151 MHz, Chloroform-d)

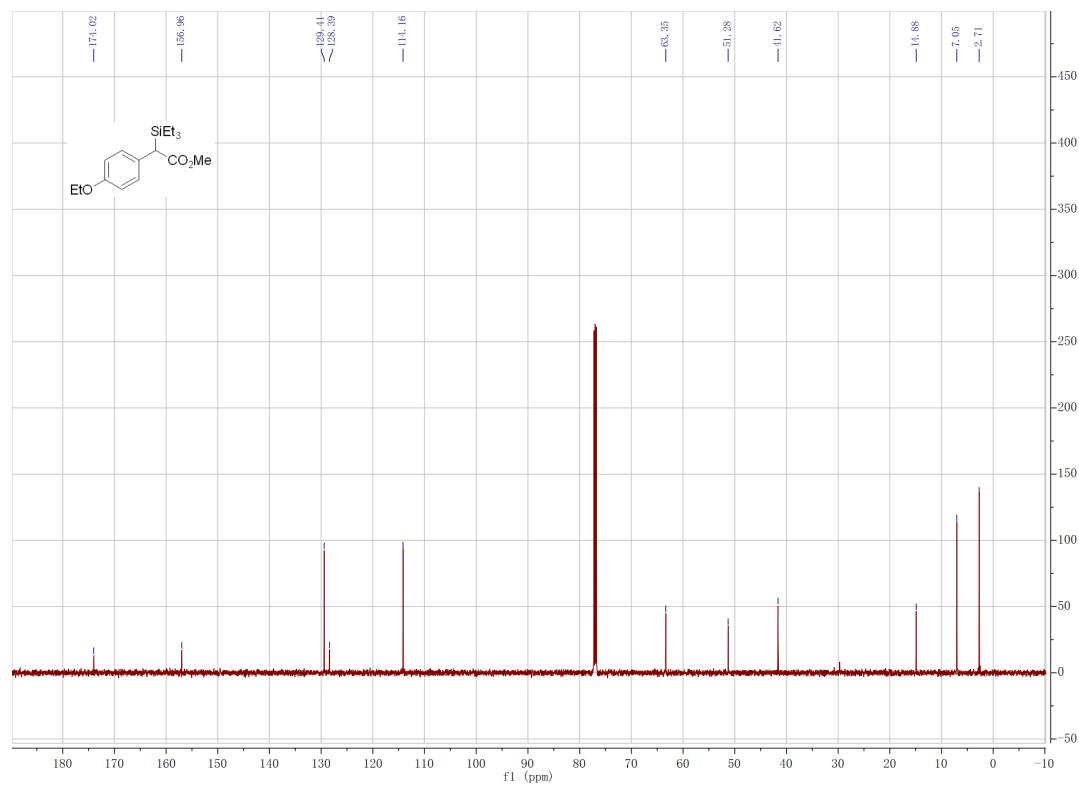


methyl 2-(4-ethoxyphenyl)-2-(triethylsilyl)acetate (3aj)

¹H NMR (600 MHz, Chloroform-d)

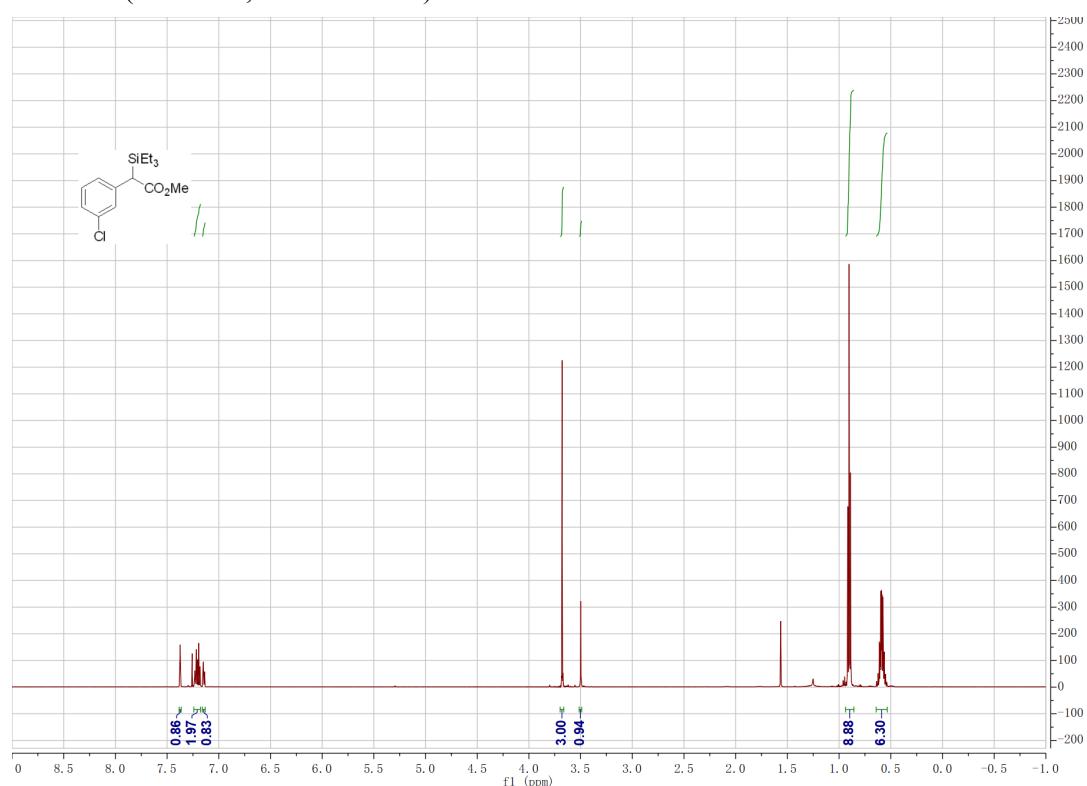


¹³C NMR (151 MHz, Chloroform-d)

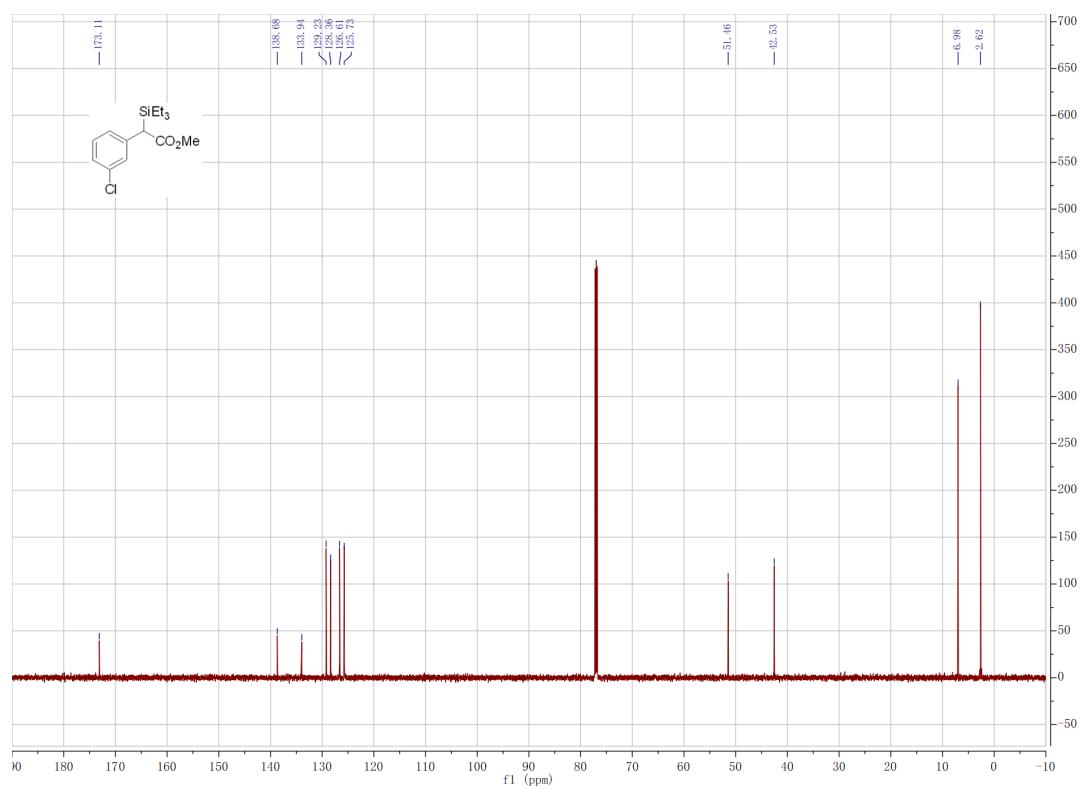


methyl 2-(3-chlorophenyl)-2-(triethylsilyl)acetate (3ak)

¹H NMR (600 MHz, Chloroform-d)

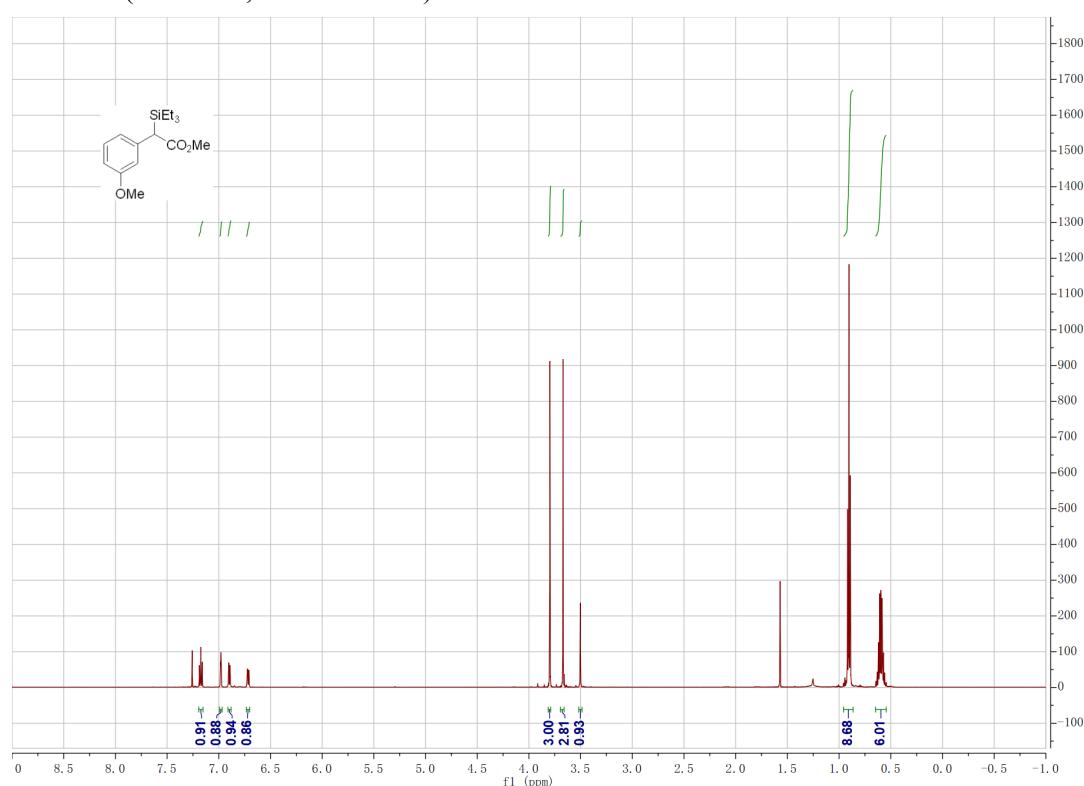


¹³C NMR (151 MHz, Chloroform-d)

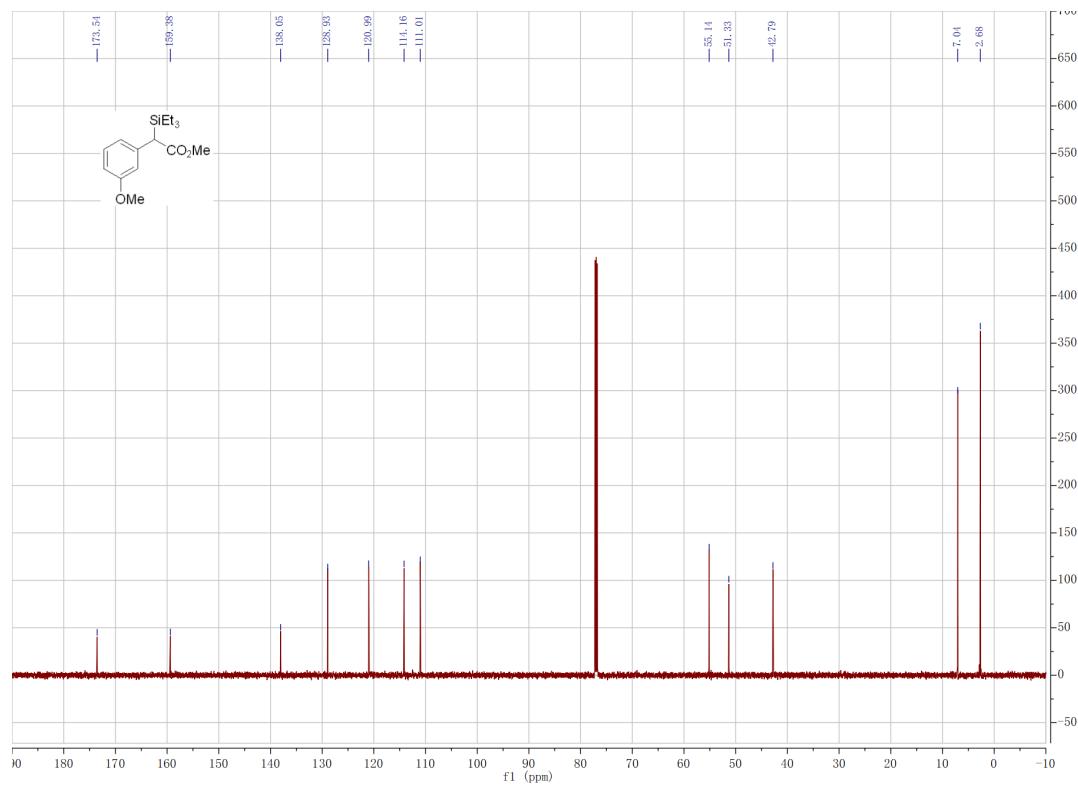


methyl 2-(3-methoxyphenyl)-2-(triethylsilyl)acetate (3al)

¹H NMR (600 MHz, Chloroform-d)

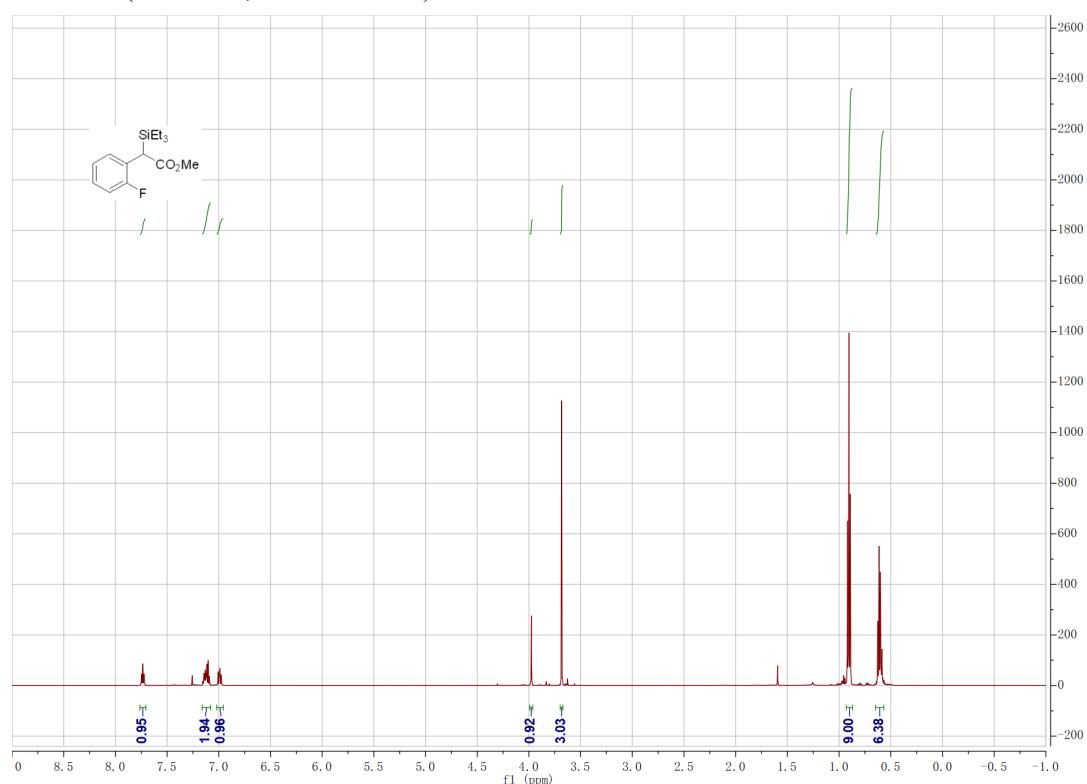


¹³C NMR (151 MHz, Chloroform-d)

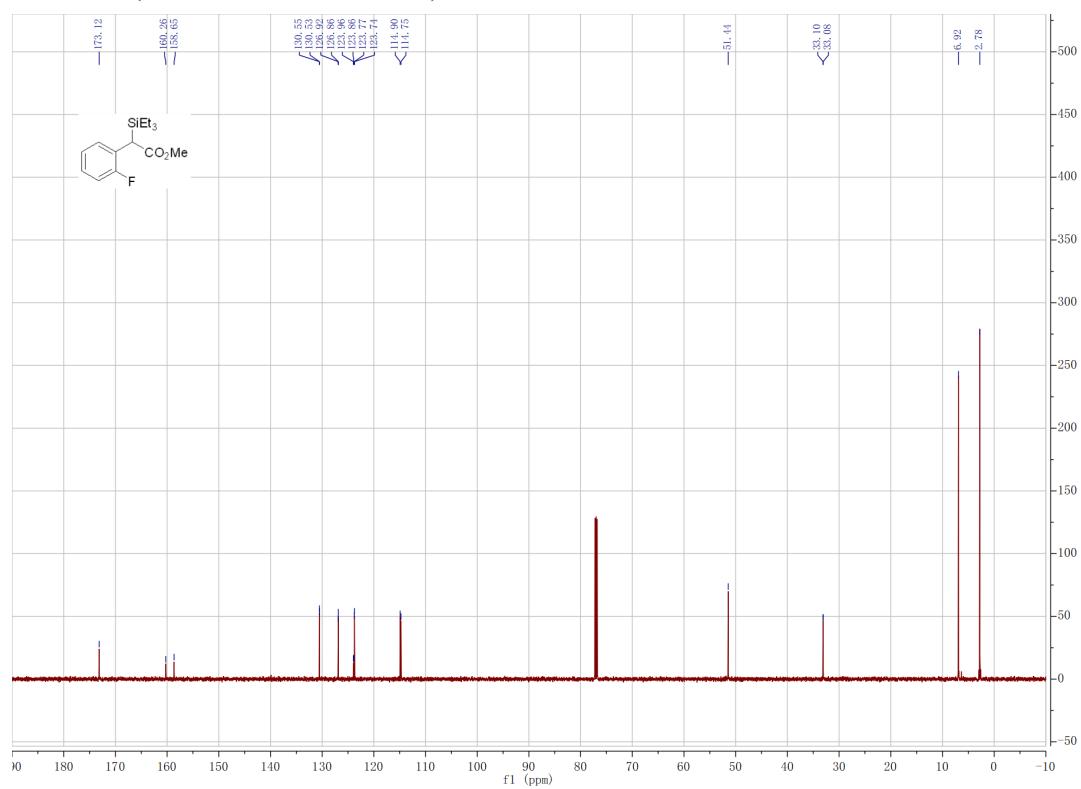


methyl 2-(2-fluorophenyl)-2-(triethylsilyl)acetate (3am)

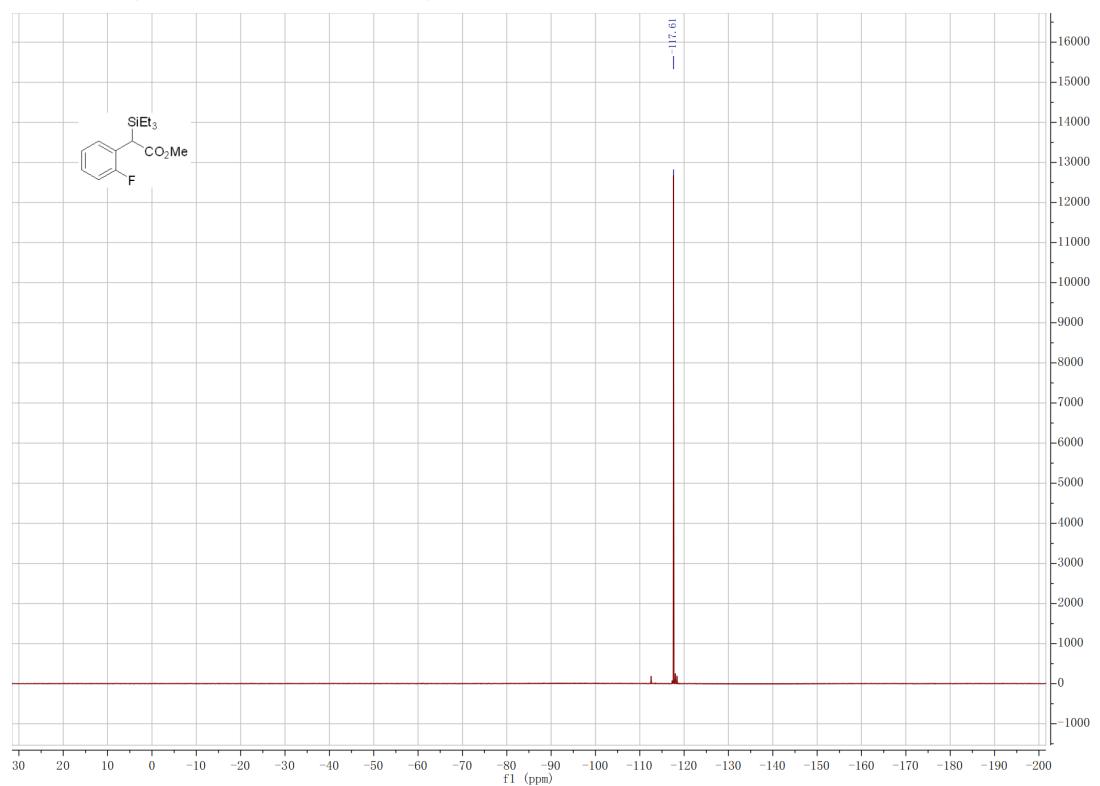
¹H NMR (600 MHz, Chloroform-d)



¹³C NMR (151 MHz, Chloroform-d)

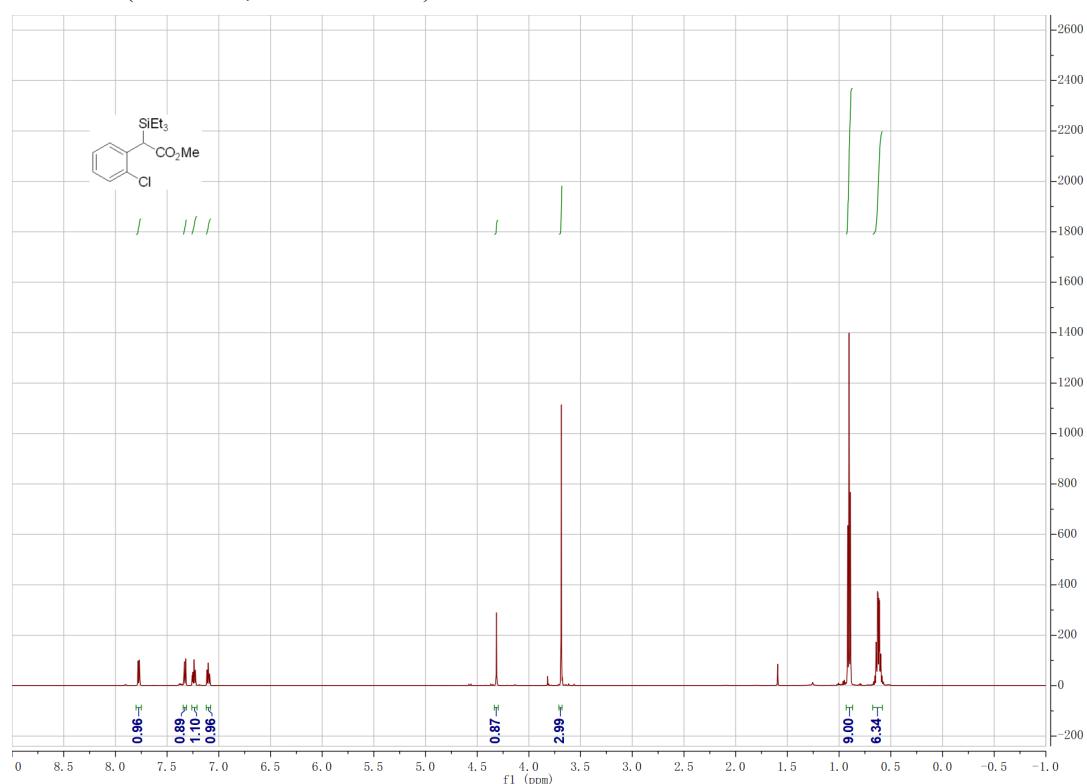


¹⁹F NMR (564 MHz, Chloroform-*d*)

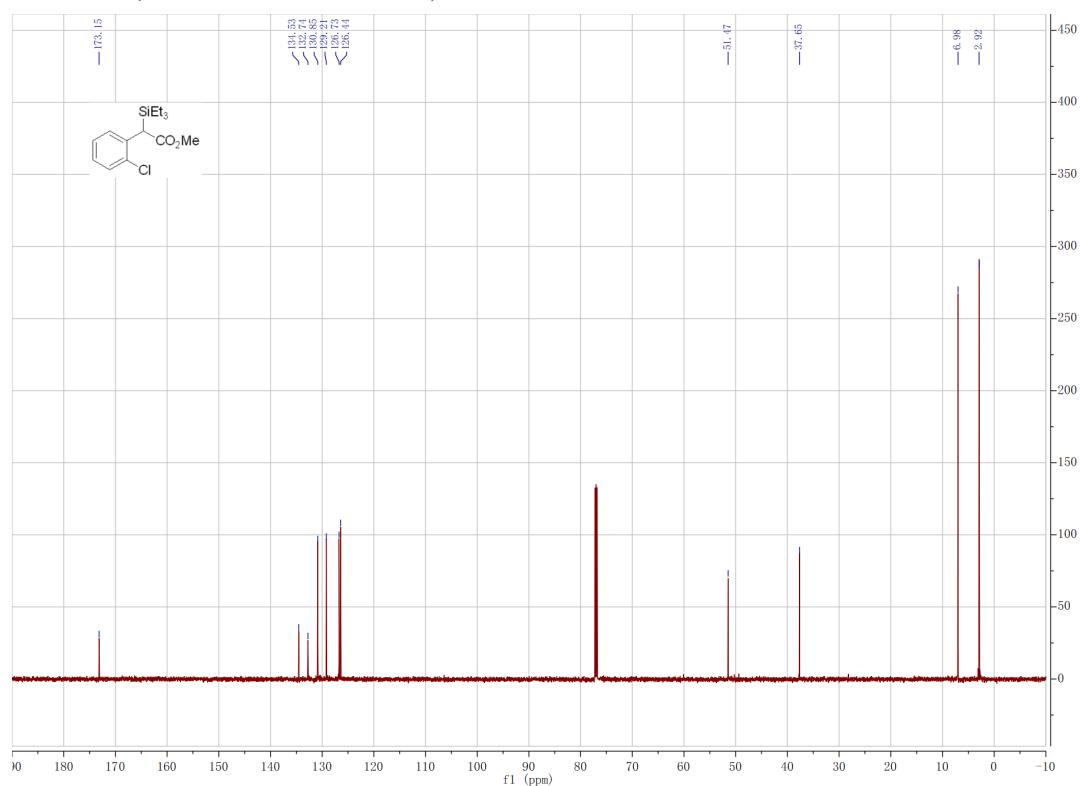


methyl 2-(2-chlorophenyl)-2-(triethylsilyl)acetate (3an)

¹H NMR (600 MHz, Chloroform-d)

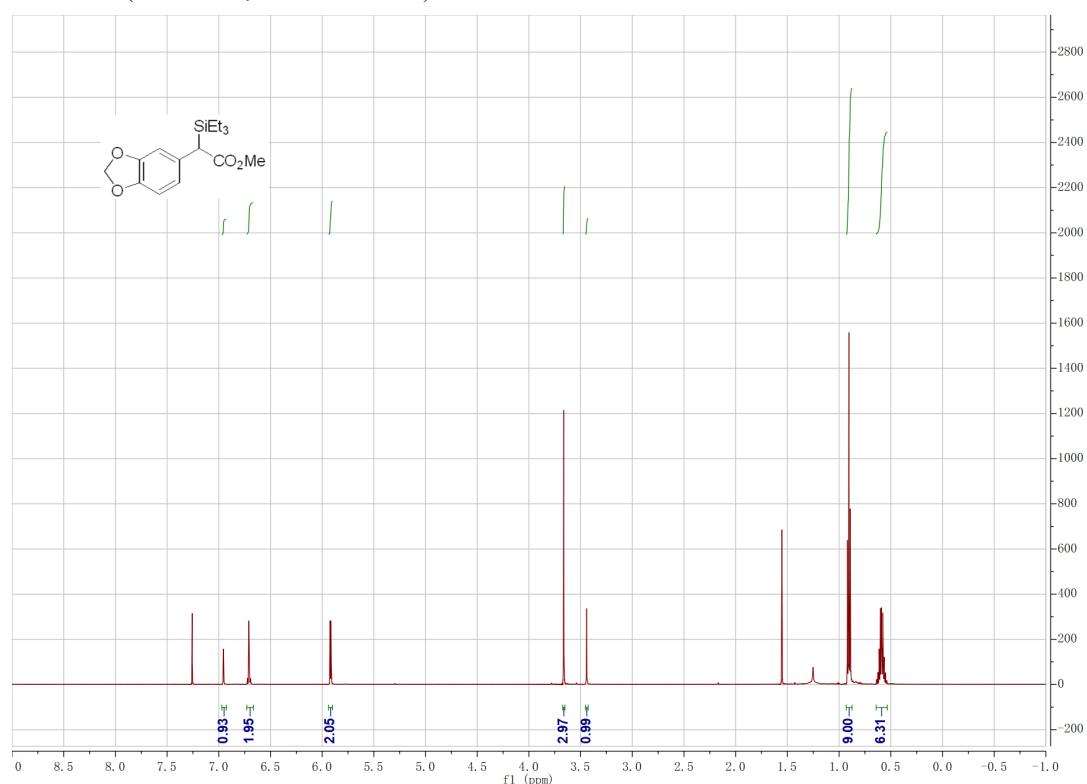


¹³C NMR (151 MHz, Chloroform-d)

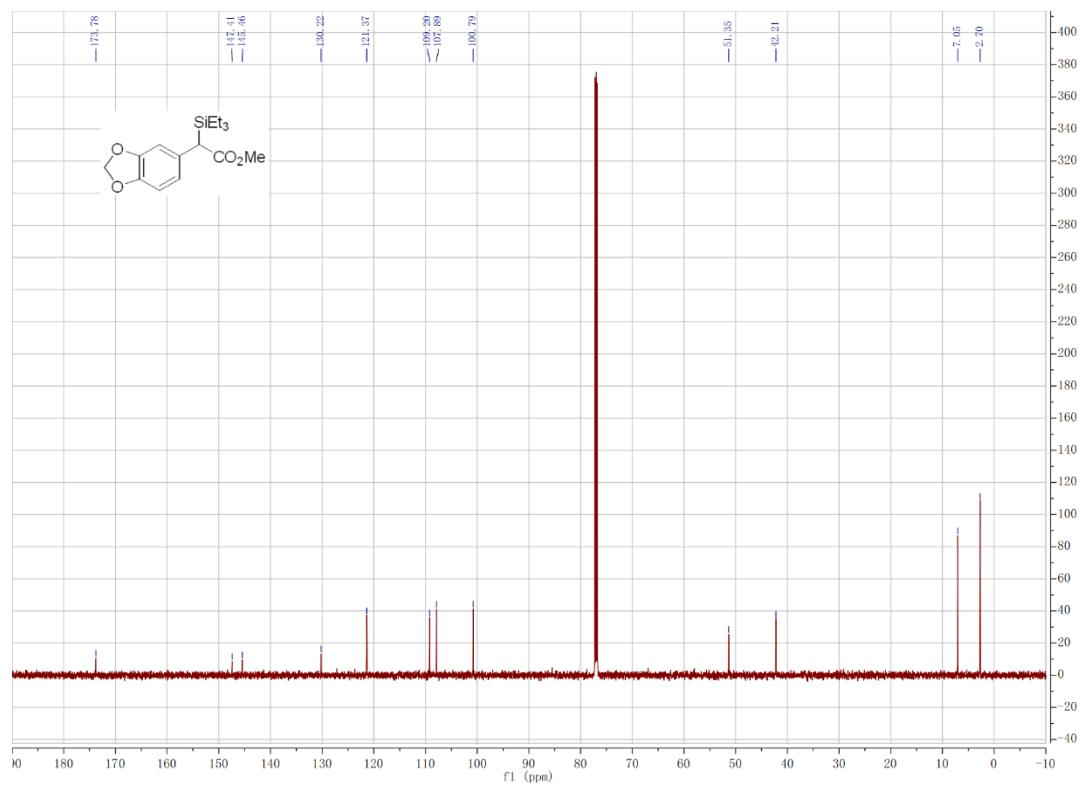


methyl 2-(benzo[d][1,3]dioxol-5-yl)-2-(triethylsilyl)acetate (3ao)

¹H NMR (600 MHz, Chloroform-d)

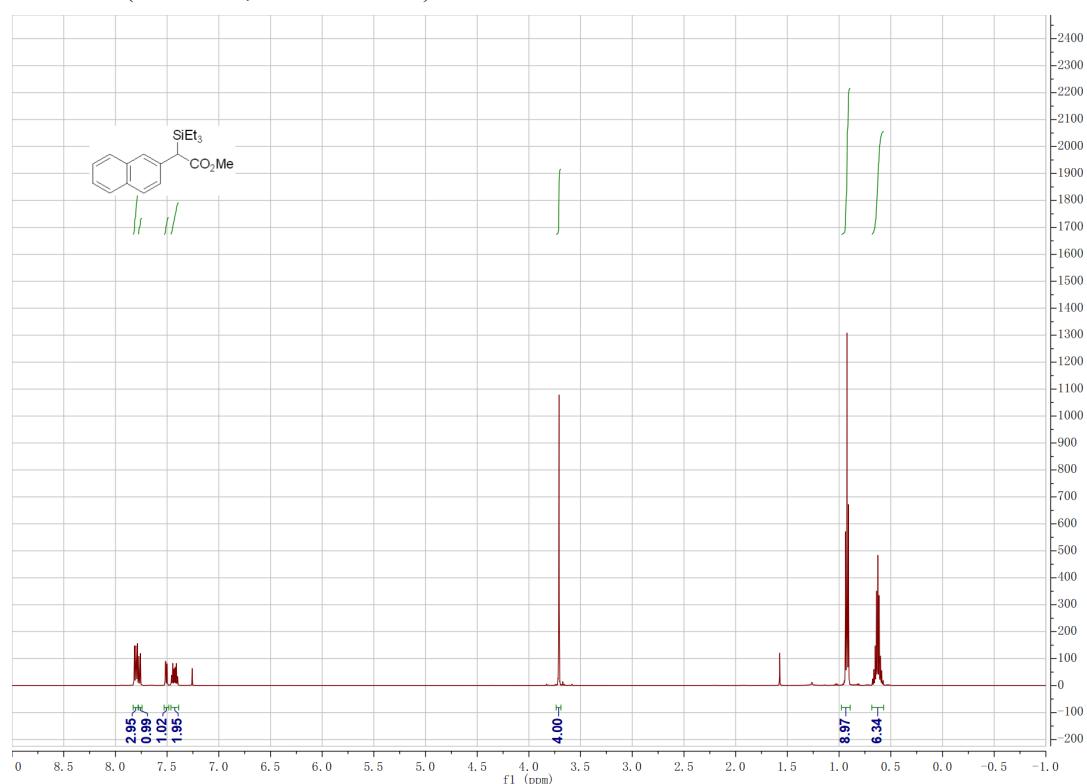


¹³C NMR (151 MHz, Chloroform-d)

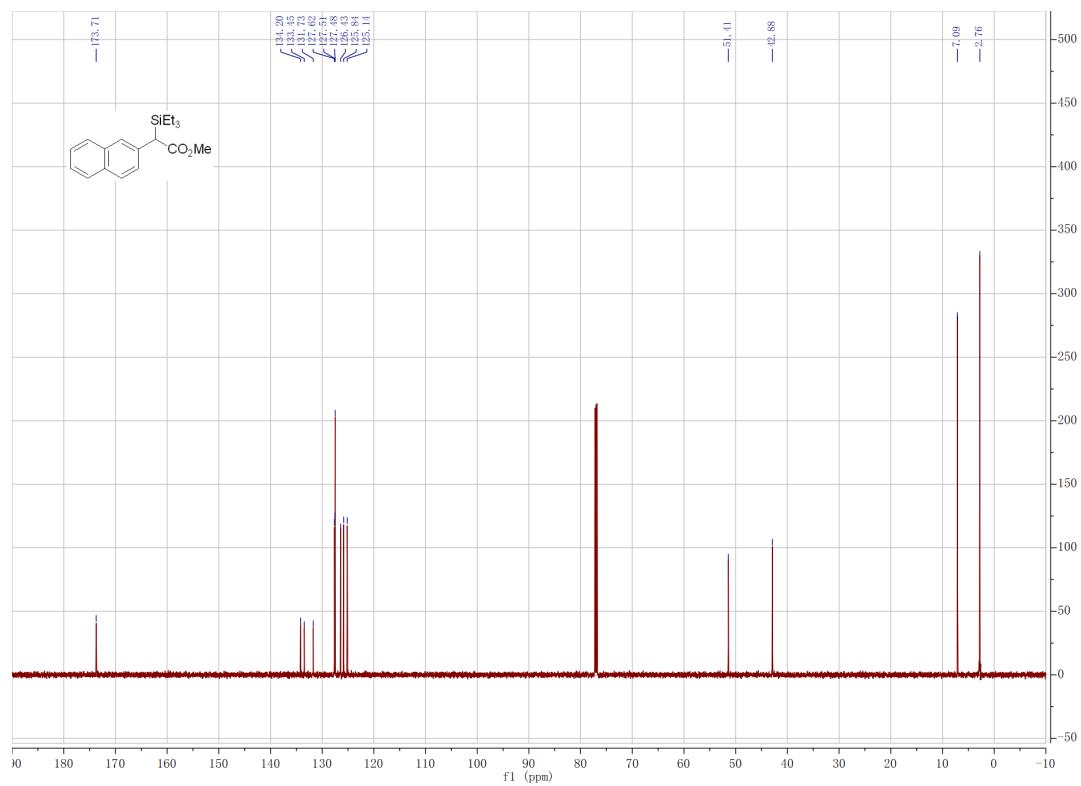


methyl 2-(naphthalen-2-yl)-2-(triethylsilyl)acetate (3ap)

¹H NMR (600 MHz, Chloroform-d)

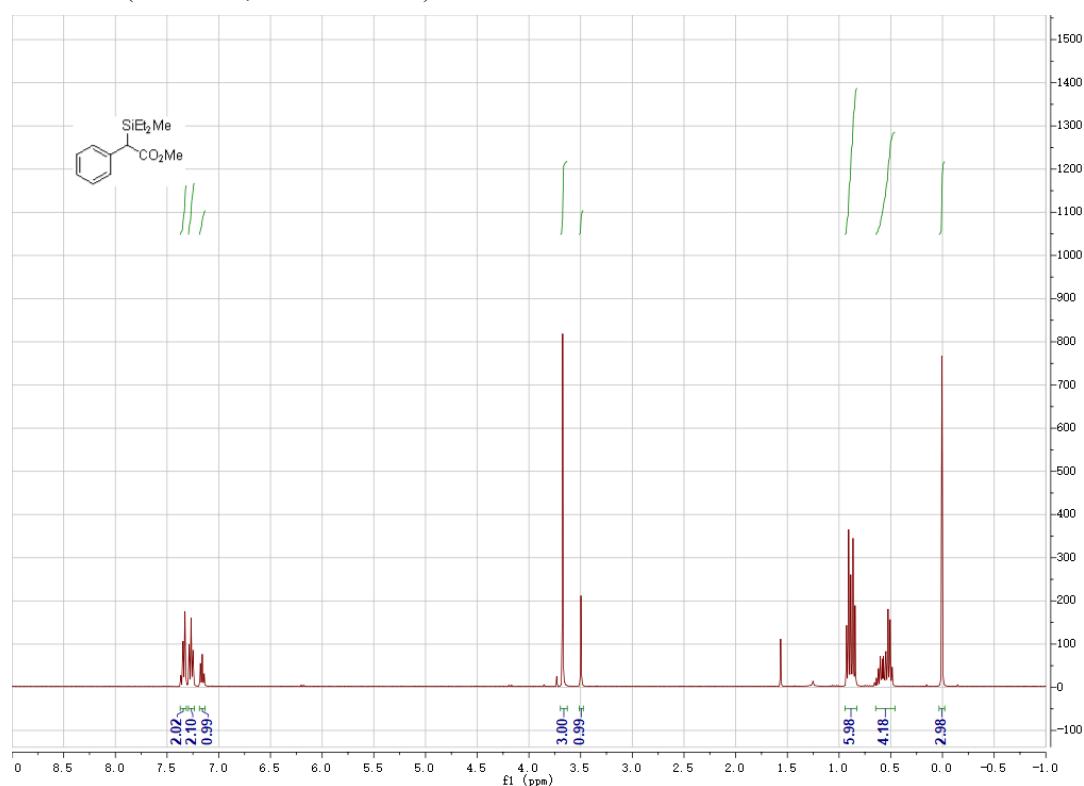


¹³C NMR (151 MHz, Chloroform-d)

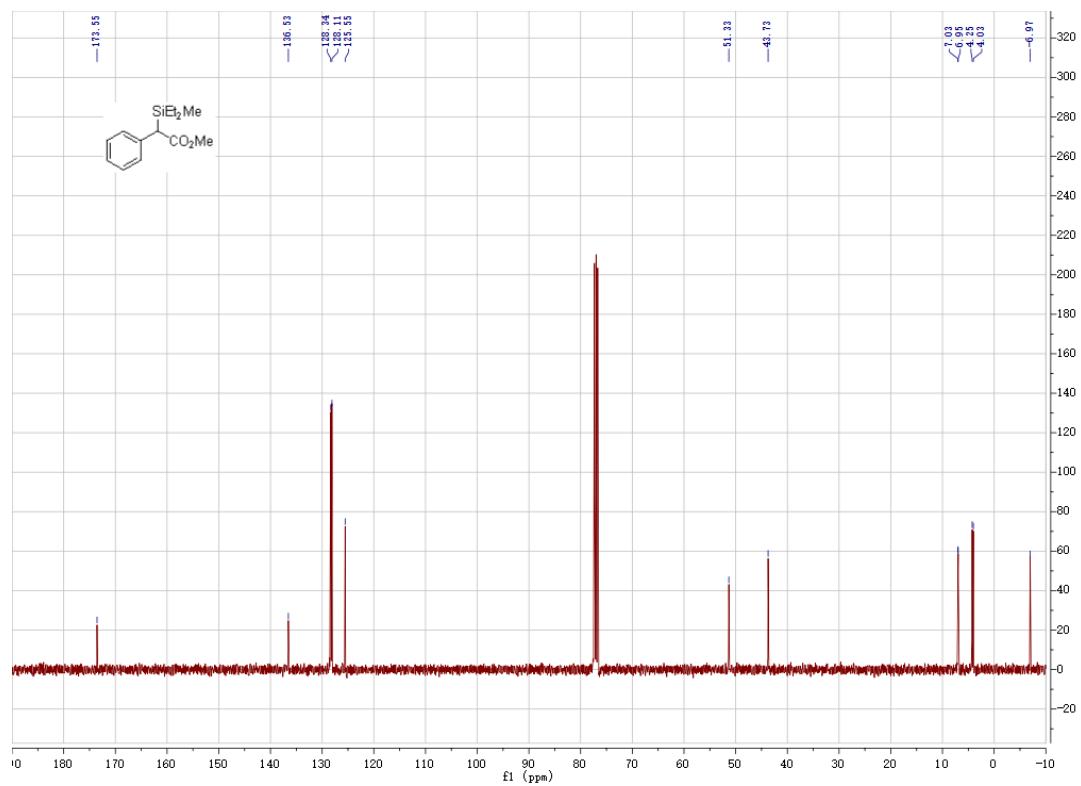


methyl 2-(diethyl(methyl)silyl)-2-phenylacetate (3ba)

¹H NMR (400 MHz, Chloroform-*d*)

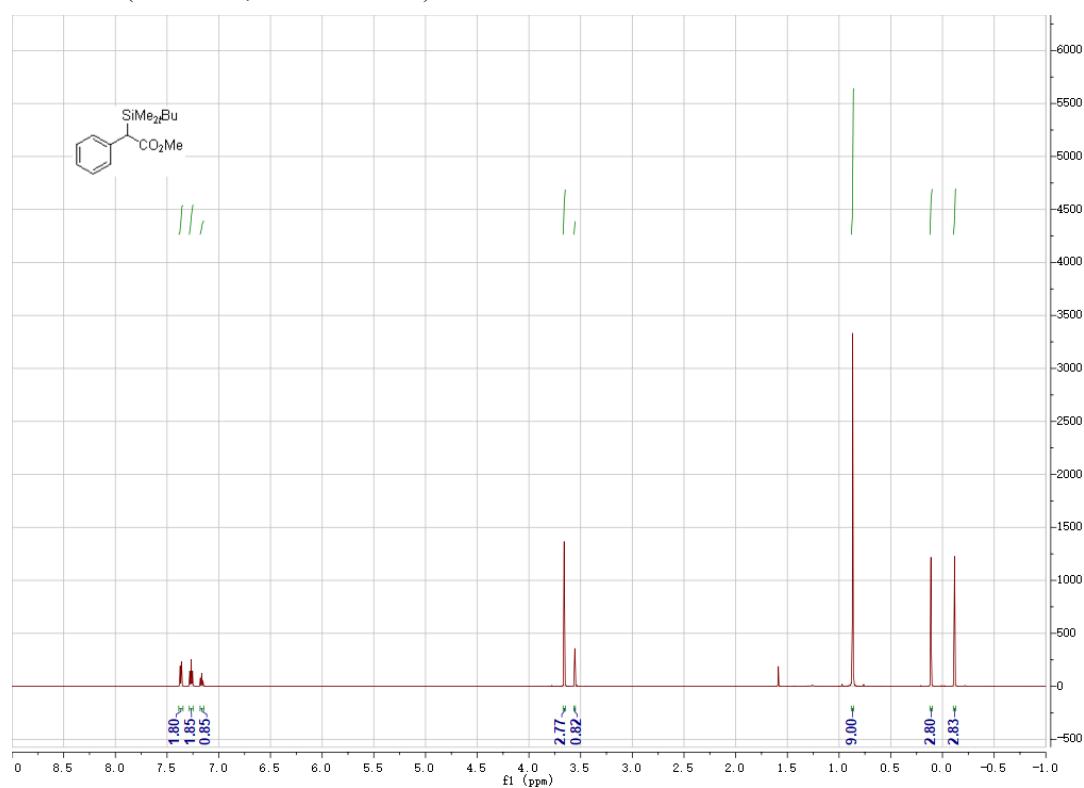


¹³C NMR (101 MHz, Chloroform-*d*)

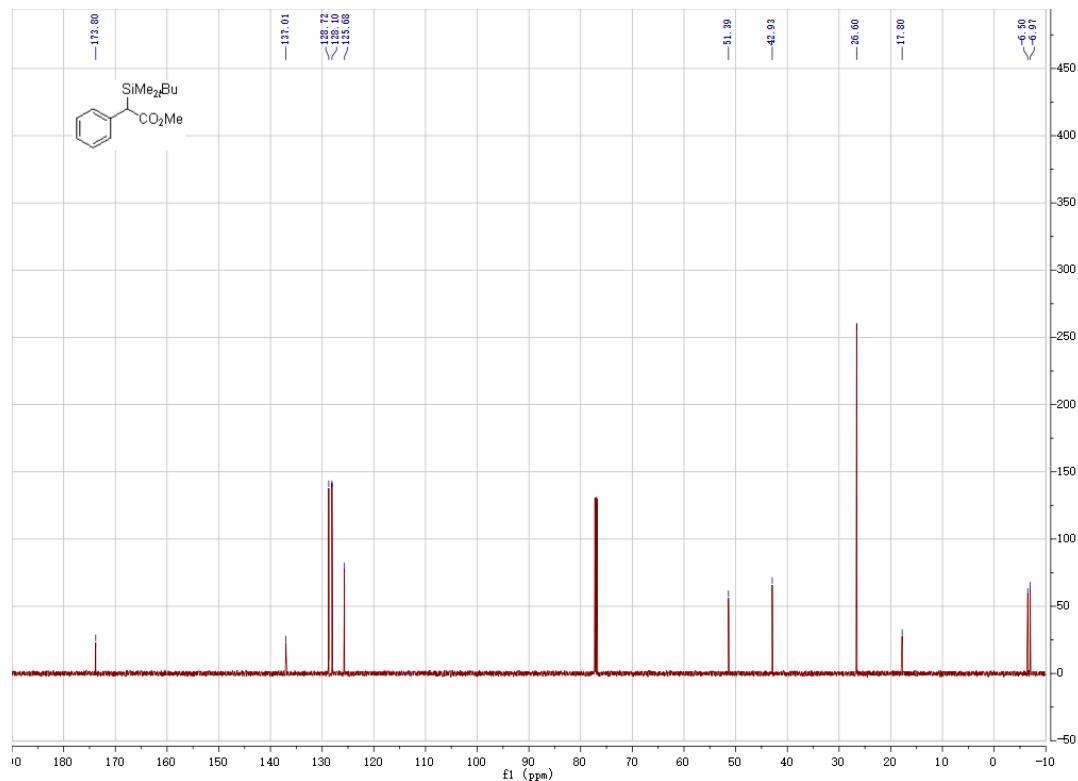


methyl 2-(tert-butyldimethylsilyl)-2-phenylacetate (3ca)

¹H NMR (600 MHz, Chloroform-d)

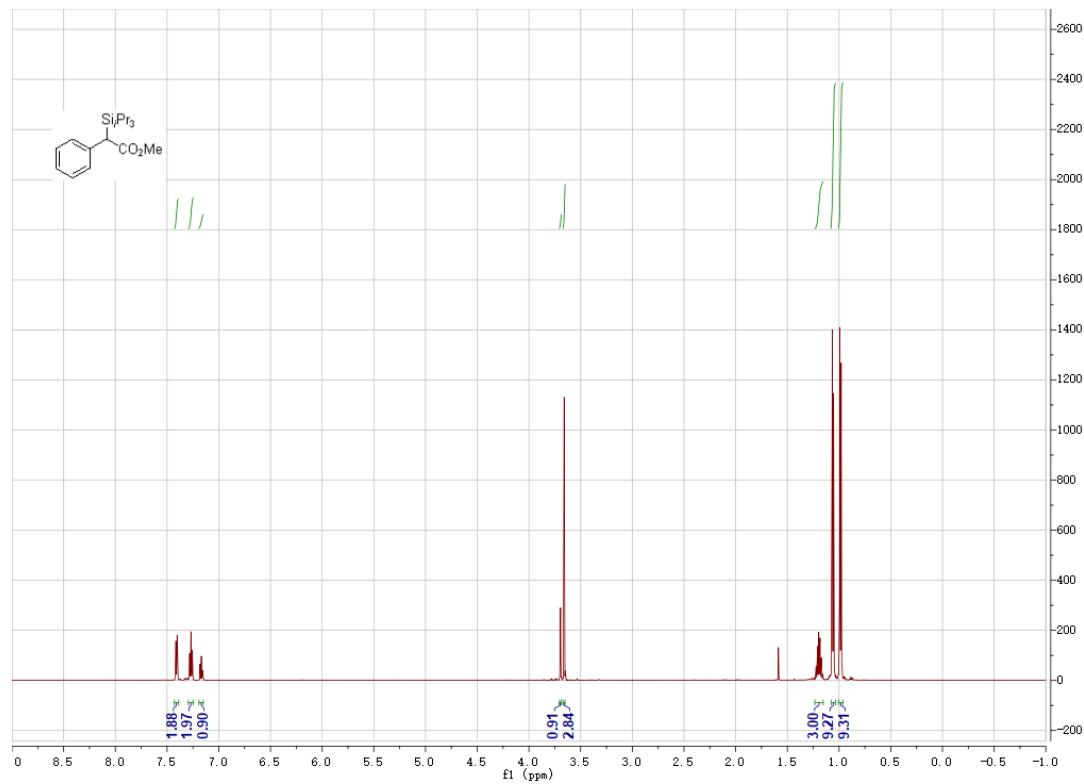


¹³C NMR (151 MHz, Chloroform-d)

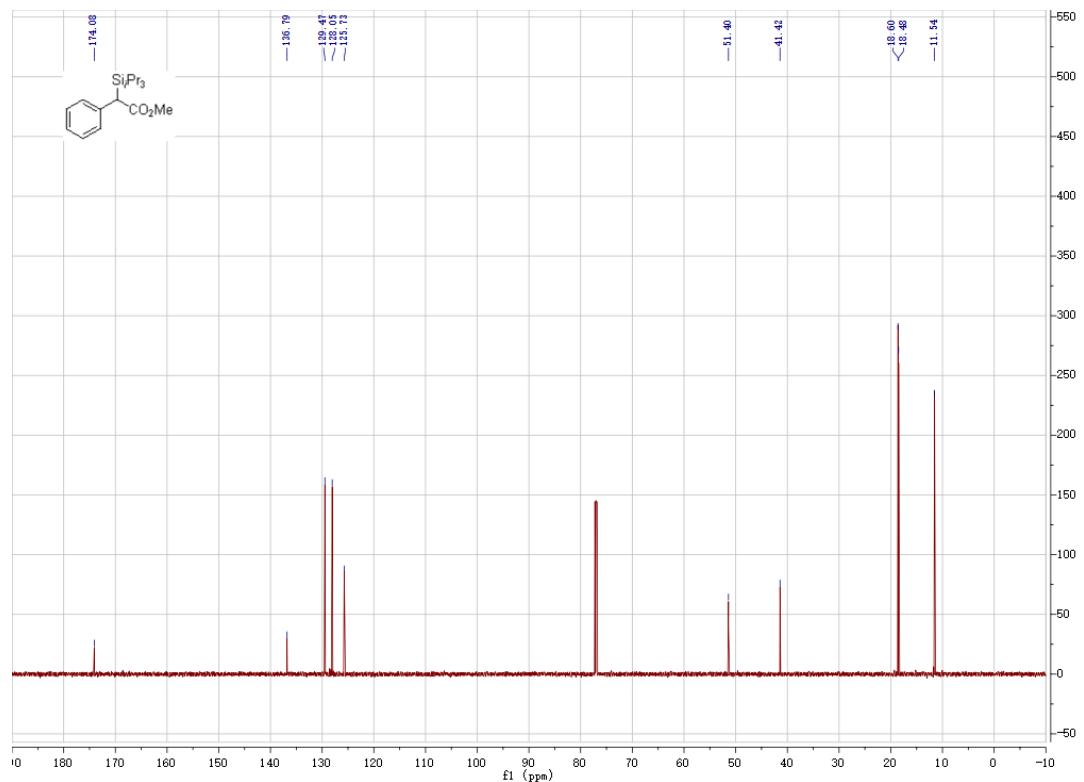


methyl 2-phenyl-2-(triisopropylsilyl)acetate (3da)

¹H NMR (600 MHz, Chloroform-*d*)

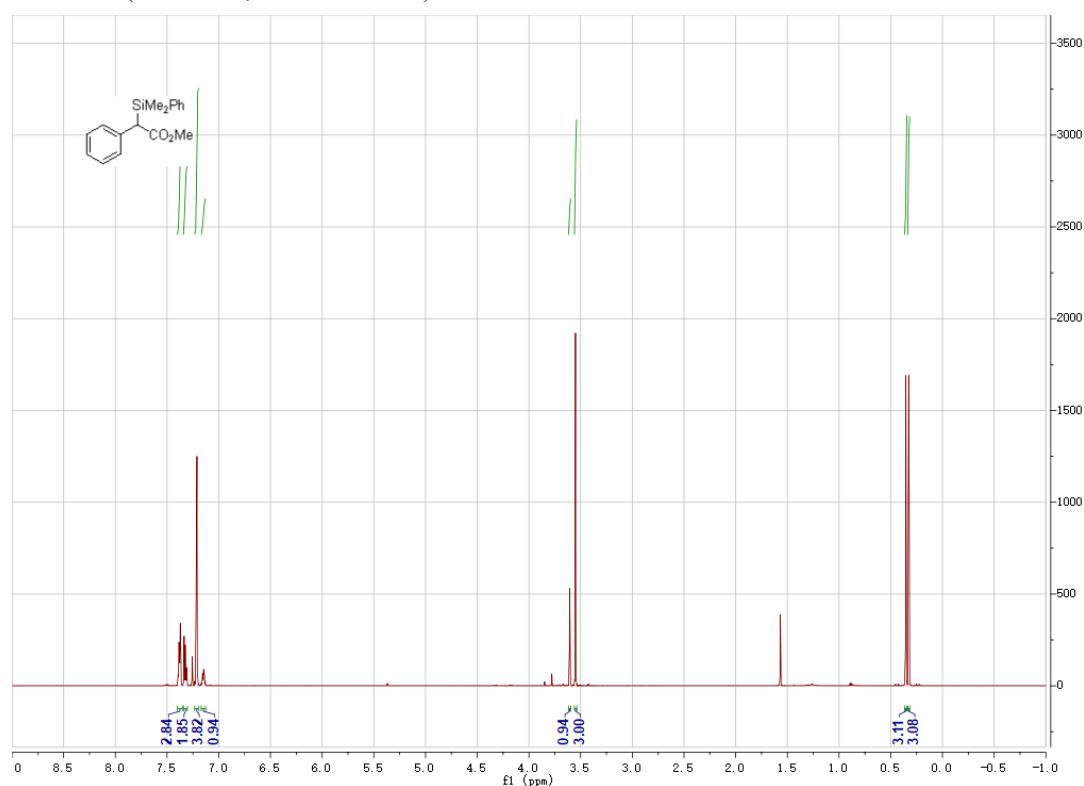


¹³C NMR (151 MHz, Chloroform-*d*)

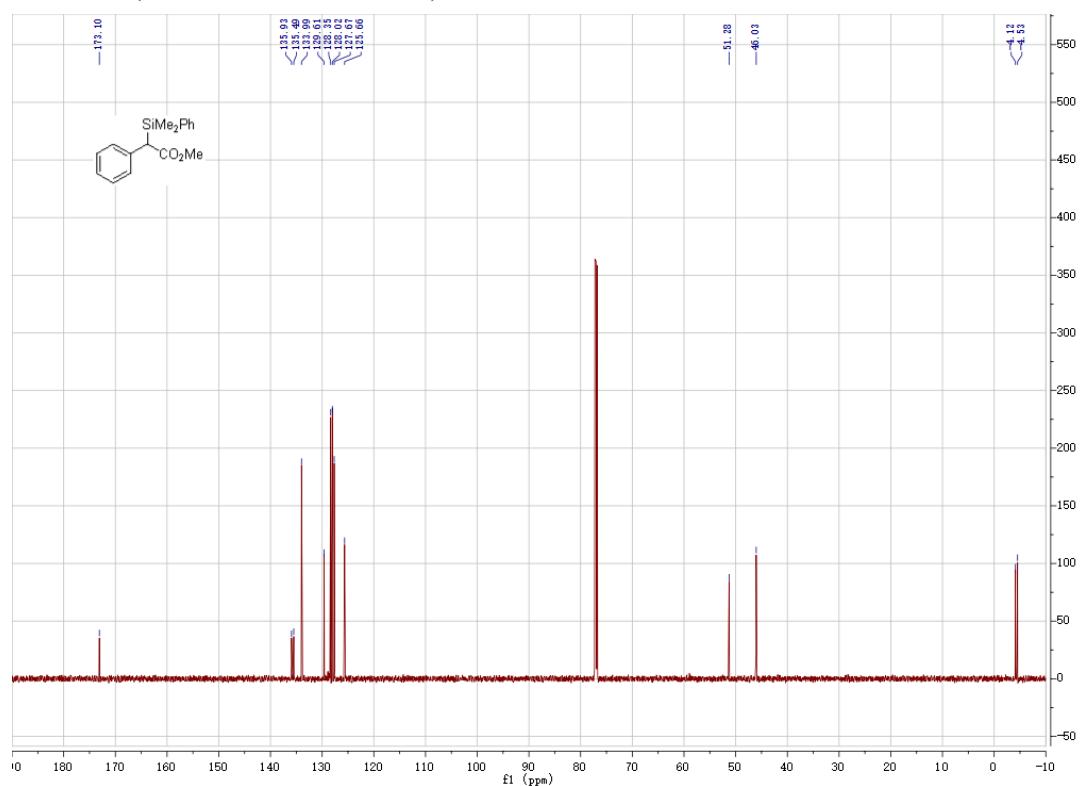


methyl 2-(dimethyl(phenyl)silyl)-2-phenylacetate (3ea)

¹H NMR (600 MHz, Chloroform-d)

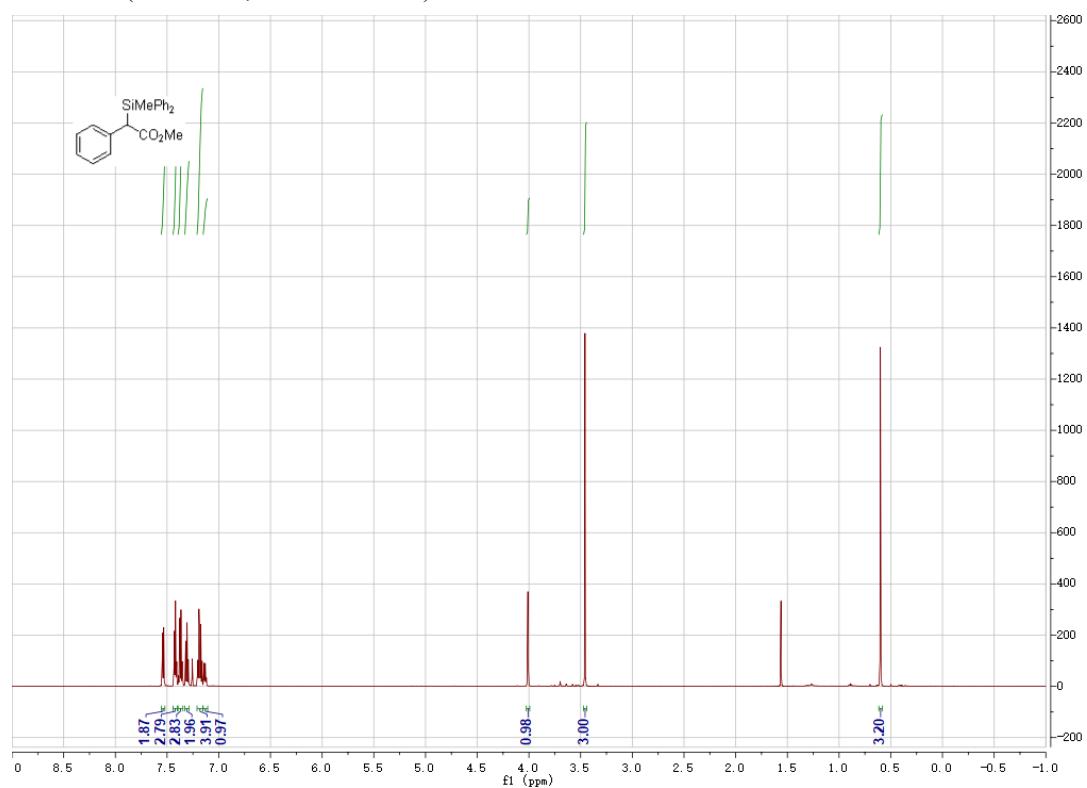


¹³C NMR (151 MHz, Chloroform-d)

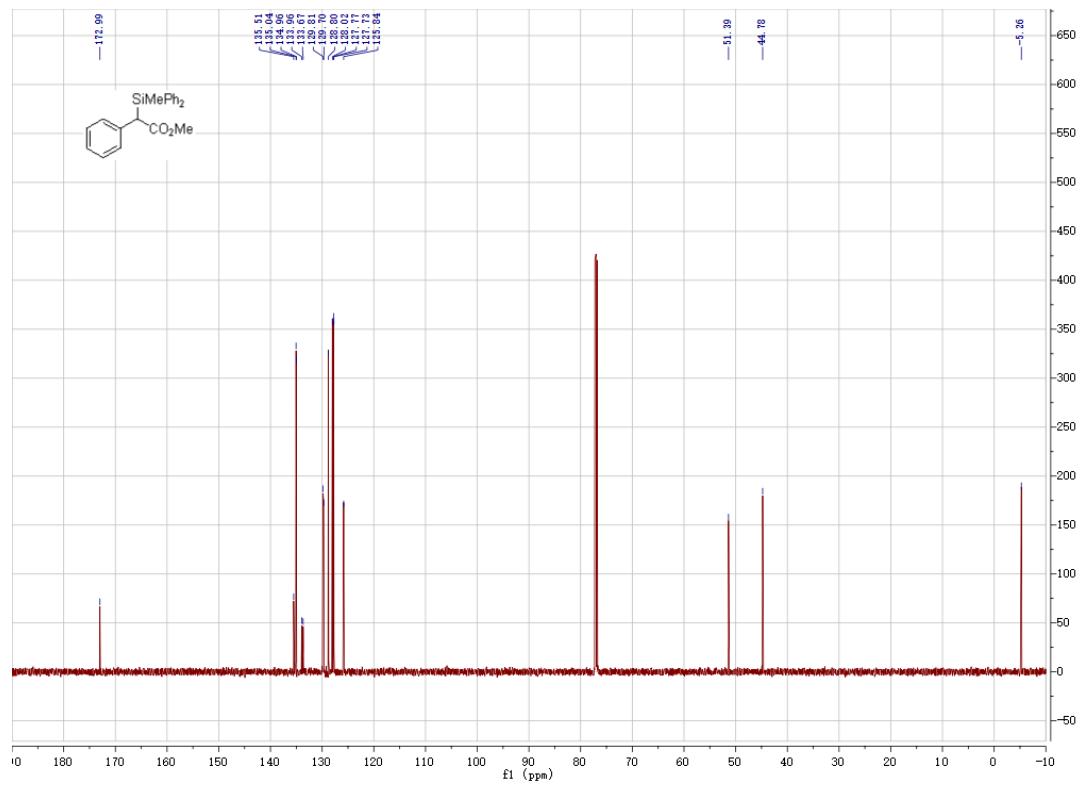


methyl 2-(methyldiphenylsilyl)-2-phenylacetate (3fa)

¹H NMR (600 MHz, Chloroform-*d*)

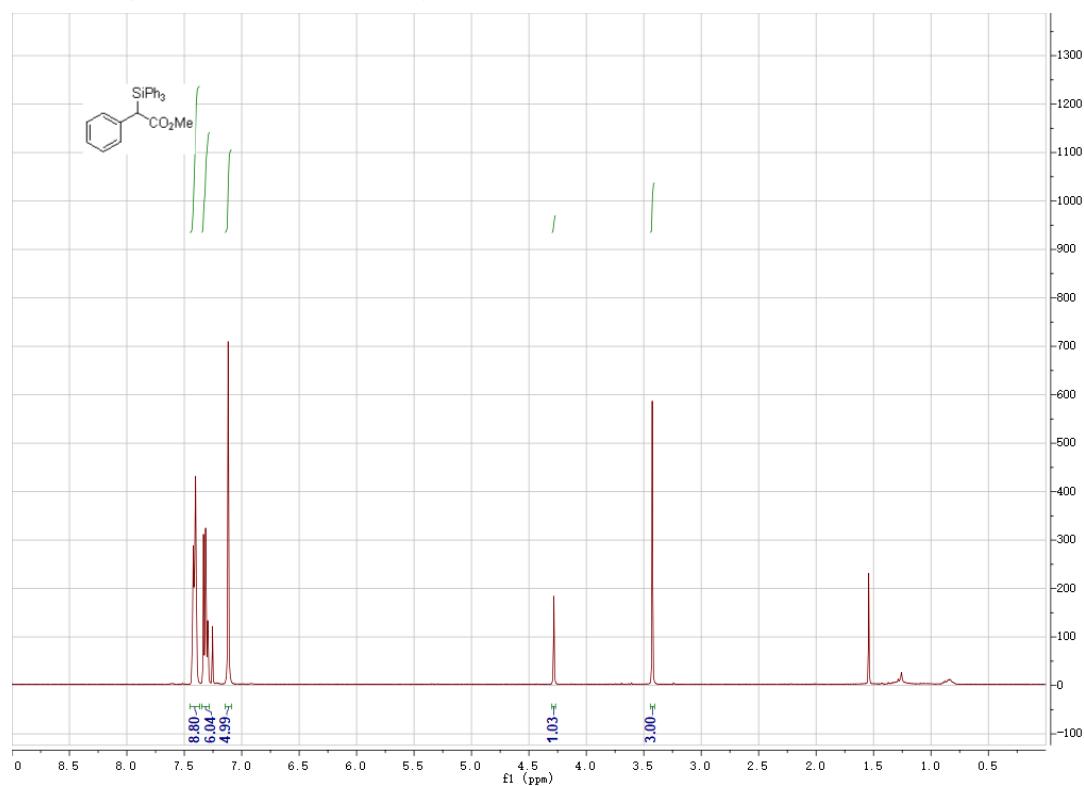


¹³C NMR (151 MHz, Chloroform-*d*)



methyl 2-phenyl-2-(triphenylsilyl)acetate (3ga)

¹H NMR (400 MHz, Chloroform-d)



¹³C NMR (101 MHz, Chloroform-d)

