

Supporting Information for

Direct Detection of Wiberg's Silene (1,1-Dimethyl-2,2-bis(trimethylsilyl)silene) and Absolute Rate Constants for its Reactions in Solution

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Figure 1. 500 MHz ^1H NMR spectra in CDCl_3 of two different mixtures of 7_{Me} and $11_{\text{Me}}\text{-}13_{\text{Me}}$, isolated by semi-preparative GC from the photolysis of **6a** in deoxygenated hexane containing MeOH to *ca.* 90% conversion.

Figure 2. GC/MS trace of the product mixtures from photolysis of **6a** in deoxygenated cyclohexane- d_{12} containing (a) MeOH and (b) *t*-BuOH to *ca.* 90% conversion.

Figure 3. Mass spectra of 7_{Me} and $11_{\text{Me}}\text{-}13_{\text{Me}}$, recorded using the product mixture of Figure 2a.

Figure 4. 500 MHz ^1H NMR spectrum of the crude mixture from photolysis of **6a** (0.024 M) in cyclohexane- d_{12} containing 0.15 M *t*-BuOH, to 90% conversion of **6a**.

Figure 1

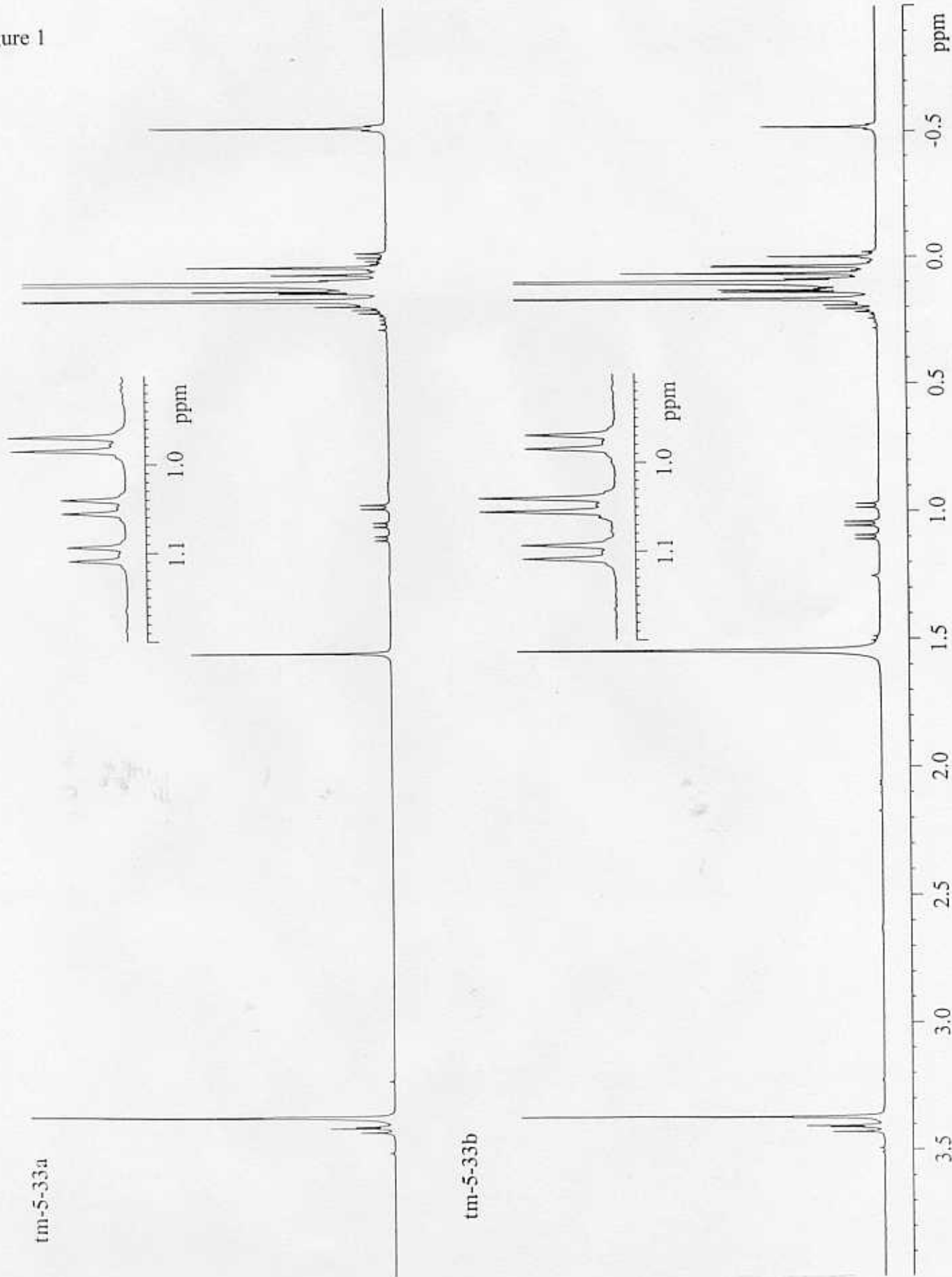


Figure 2a

File : D:\RACHEL\TM62MIXC.D
Operator : rachel
Acquired : 21 Aug 101 5:39 pm using AcqMethod TRACEYFU
Instrument : 5971 - In
Sample Name: methanol adducts - full scan
Misc Info : after 95% conversion of diazomethane
Vial Number: 1

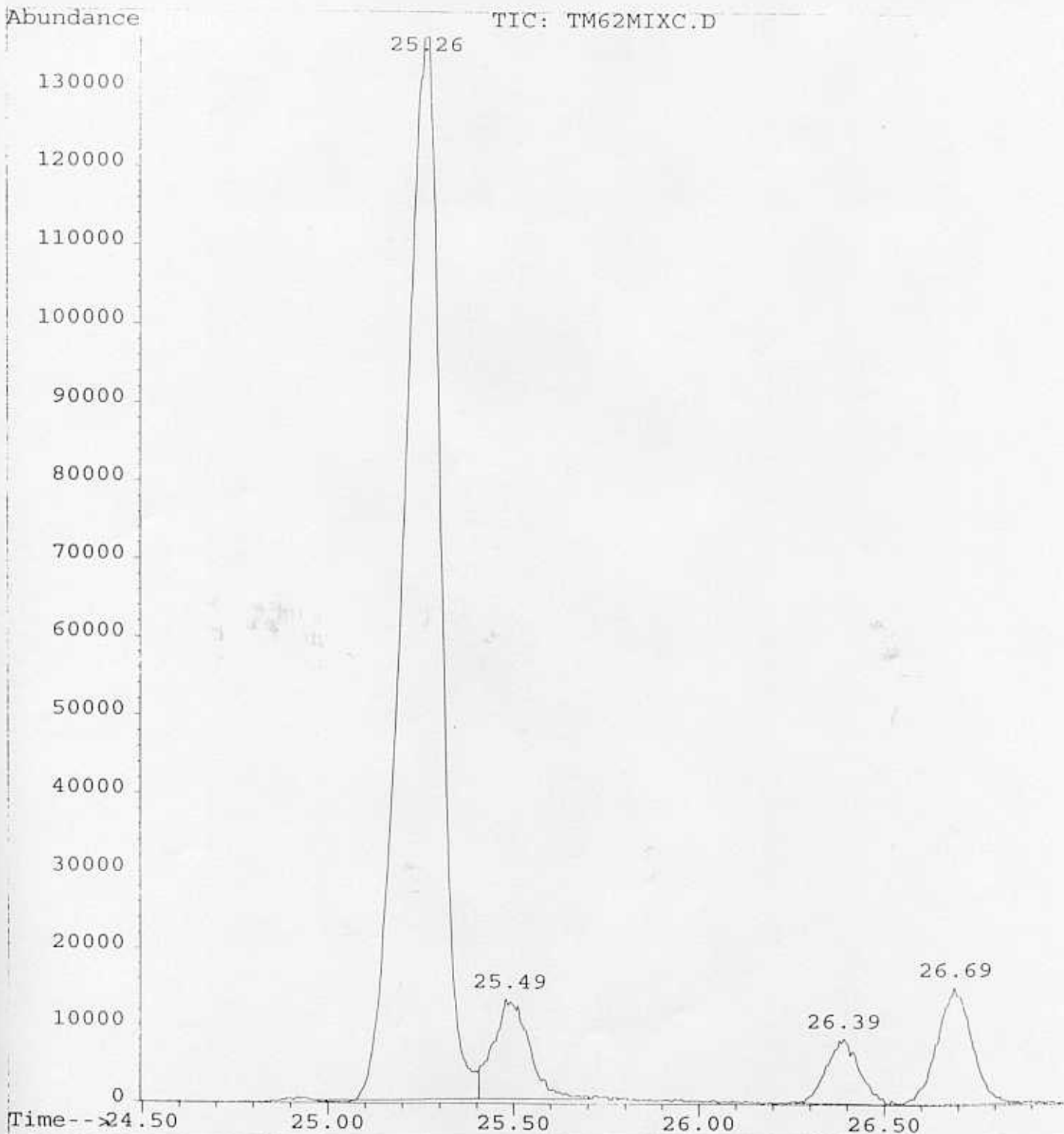
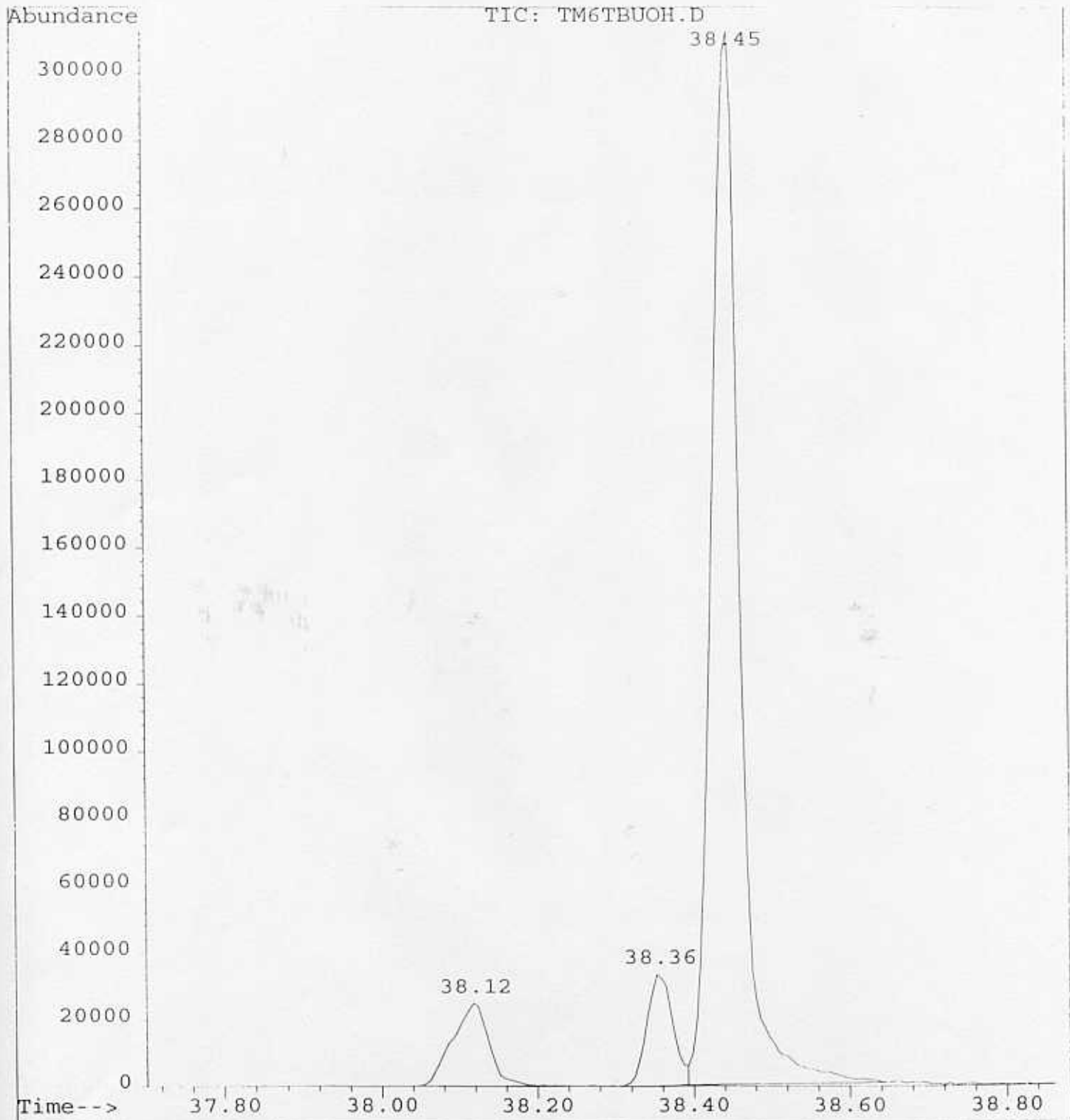
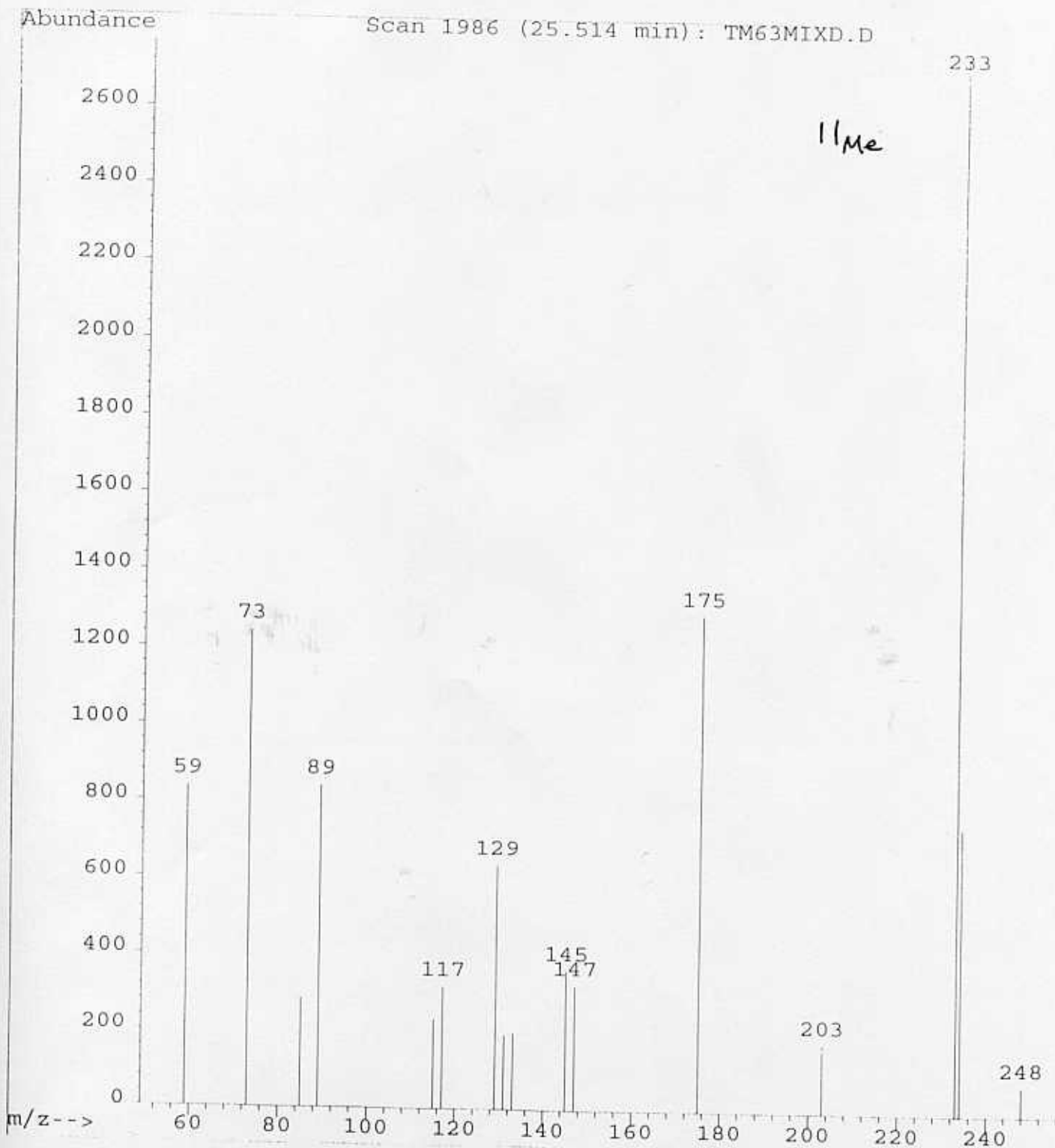


Figure 2b

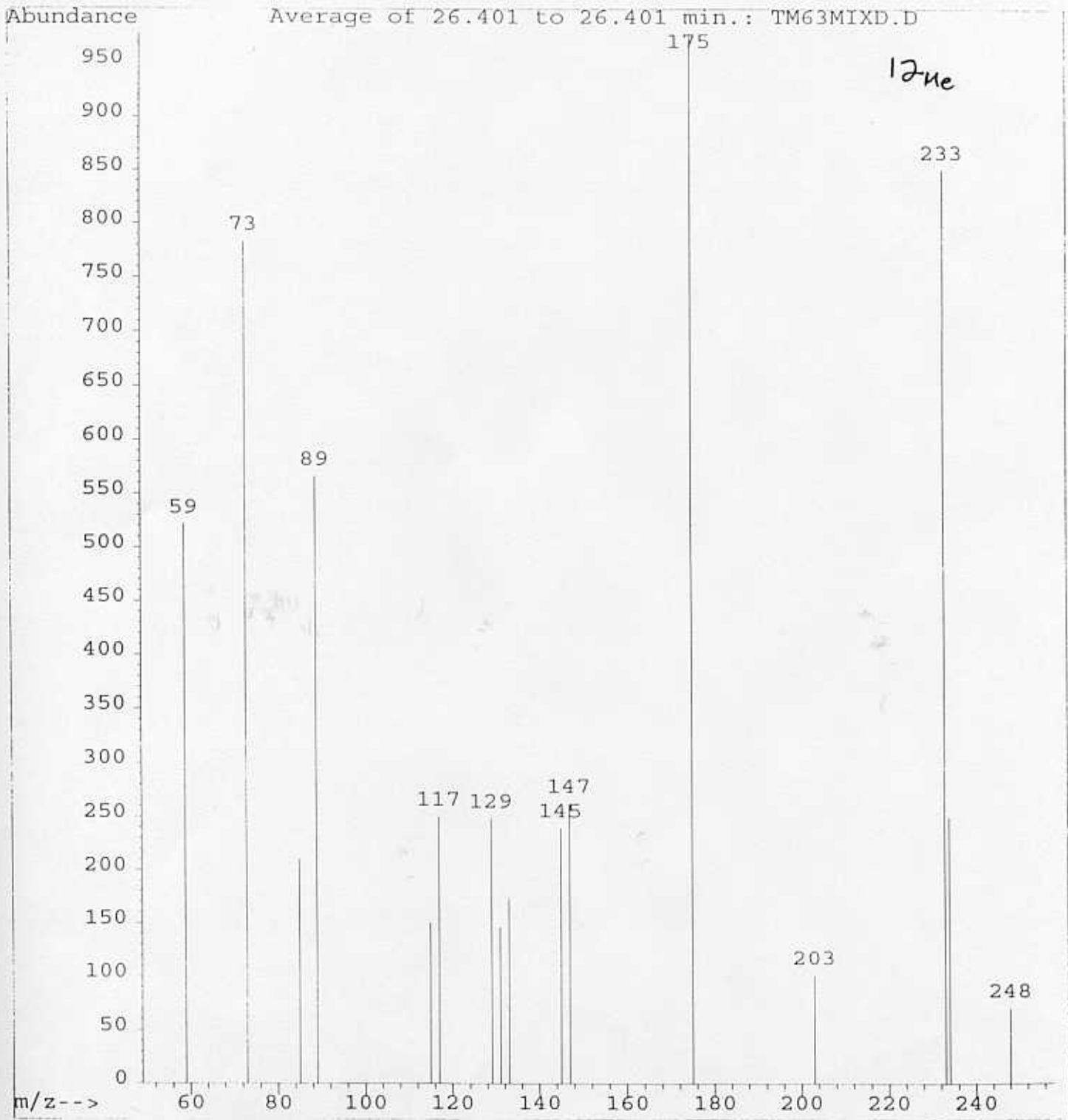
File : D:\RACHEL\TM6TBUOH.D
Operator : tracy
Acquired : 23 Aug 101 2:01 pm using AcqMethod TRACEYFU
Instrument : 5971 - In
Sample Name: t-buoh adducts
Misc Info : after 95% conversion of diazomethane
Vial Number: 1



File : D:\RACHEL\TM63MIXD.D
Operator : rachel
Acquired : 21 Aug 101 6:33 pm using AcqMethod TRACEYSM
Instrument : 5971 - In
Sample Name: methanol adducts - sim program
Misc Info : after 95% conversion of diazomethane
Vial Number: 1



File : D:\RACHEL\TM63MIXD.D
Operator : rachel
Acquired : 21 Aug 101 6:33 pm using AcqMethod TRACEYSM
Instrument : 5971 - In
Sample Name: methanol adducts - sim program
Misc Info : after 95% conversion of diazomethane
Vial Number: 1



File : D:\RACHEL\TM63MIXD.D
Operator : rachel
Acquired : 21 Aug 101 6:33 pm using AcqMethod TRACEYSM
Instrument : 5971 - In
Sample Name: methanol adducts - sim program
Misc Info : after 95% conversion of diazomethane
Vial Number: 1

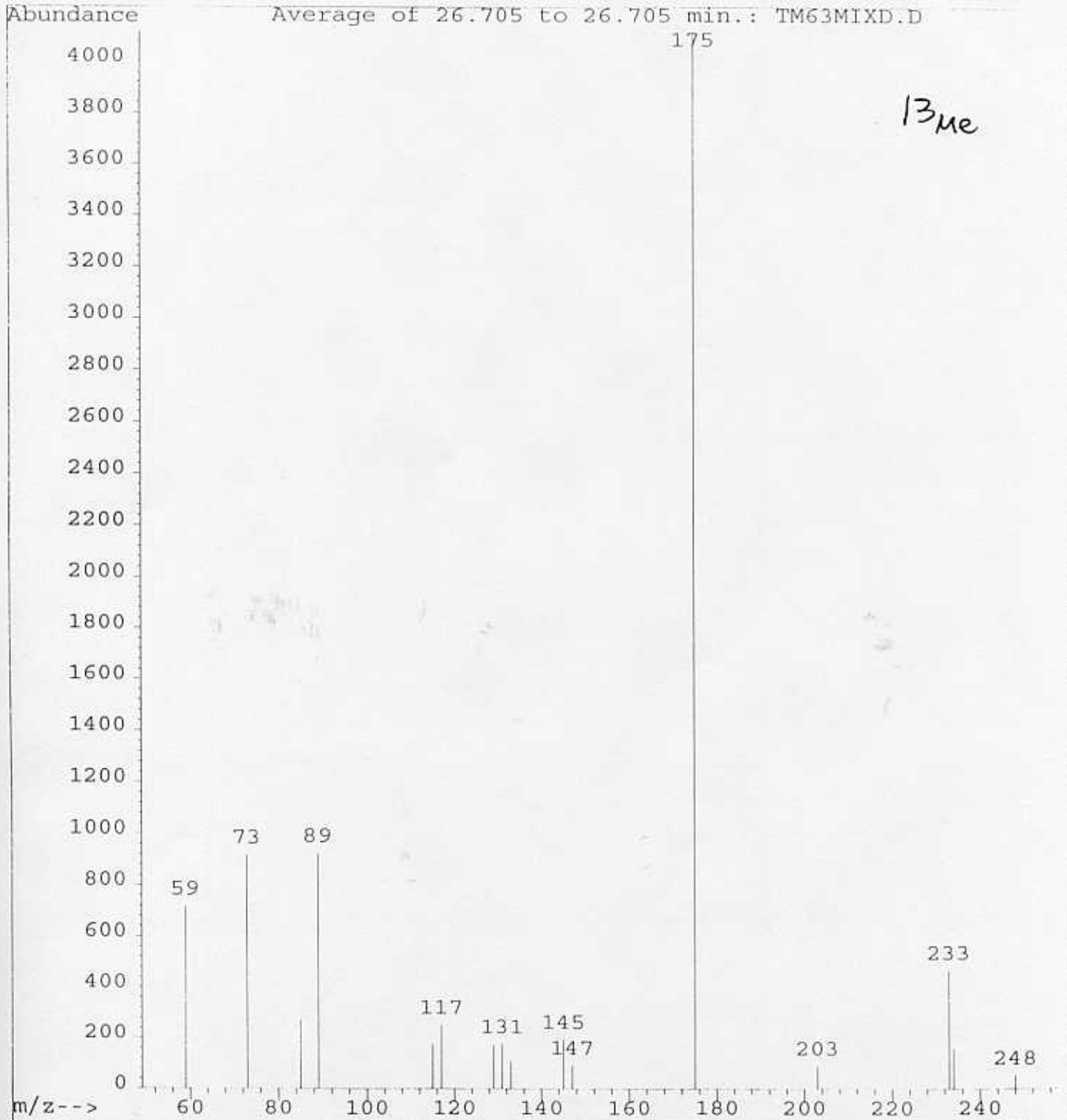


Figure 4

t-Butanol Sample
1H NMR in C6D12 (19-8-2001)

