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Supplementary Information

Chemical Constituents Isolated from the Bark of *Guatteria blepharophylla* (Annonaceae) and their Antiproliferative and Antimicrobial Activities

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Table S1. Chemical constituents isolated from the bark of *Guatteria blepharophylla* and the respective morphology and data spectra numbering (Figure S_)

Caryophyllene oxide (**1**):	Colorless oil. EI-MS *m/z* 220 $[M]^+$. ^1H NMR (S1). ^{13}C NMR (S2).
Lichexanthone (**2**):	Light yellow needles ($CHCl_3$). Mp 189-190 °C. ^1H NMR (S3). ^{13}C NMR (S4).
Spathulenol (**3**):	Colorless oil. EI-MS *m/z* 220 $[M]^+$. ^1H NMR (S5). ^{13}C NMR (S6).
Mixture of β-sitosterol (**4**) and stigmasterol (**5**):	White needles (Hexane:CH_2Cl_2 2:1). ^1H NMR (S7). ^{13}C NMR (S8).
O-methylmoschatoline (**6**):	Orange needles ($CHCl_3$); mp 182-183 °C. ^1H NMR (S9). ^{13}C NMR (S10).
Lysicamine (**7**):	Yellow needles ($CHCl_3$); mp 186-187 °C. ^1H NMR (S11). ^{13}C NMR (S12).
Nornuciferine (**8**):	Brown amorphous solid. ^1H NMR (S13). ^{13}C NMR (S14).
Liriodenine (**9**):	Yellow needles ($CHCl_3$:MeOH 2:1); mp 279-280 °C. ^1H NMR (S15). HSQC (S16). HMBC (S17).
Isocoreximine (**10**):	Light yellowish prisms ($CHCl_3$:MeOH 2:1); mp 241-242 °C. ^1H NMR (S18). ^{13}C NMR (S19).
Subsessiline (**11**):	Orange needles ($CHCl_3$:MeOH 2:1). ^1H NMR (S20). ^{13}C NMR (S21). HSQC (S22). HMBC (S23).
Isomoschatoline (**12**):	Blue needles ($CHCl_3$:MeOH 2:1). ^1H NMR (S24). ^{13}C NMR (S25). HSQC (S26). HMBC (S27).

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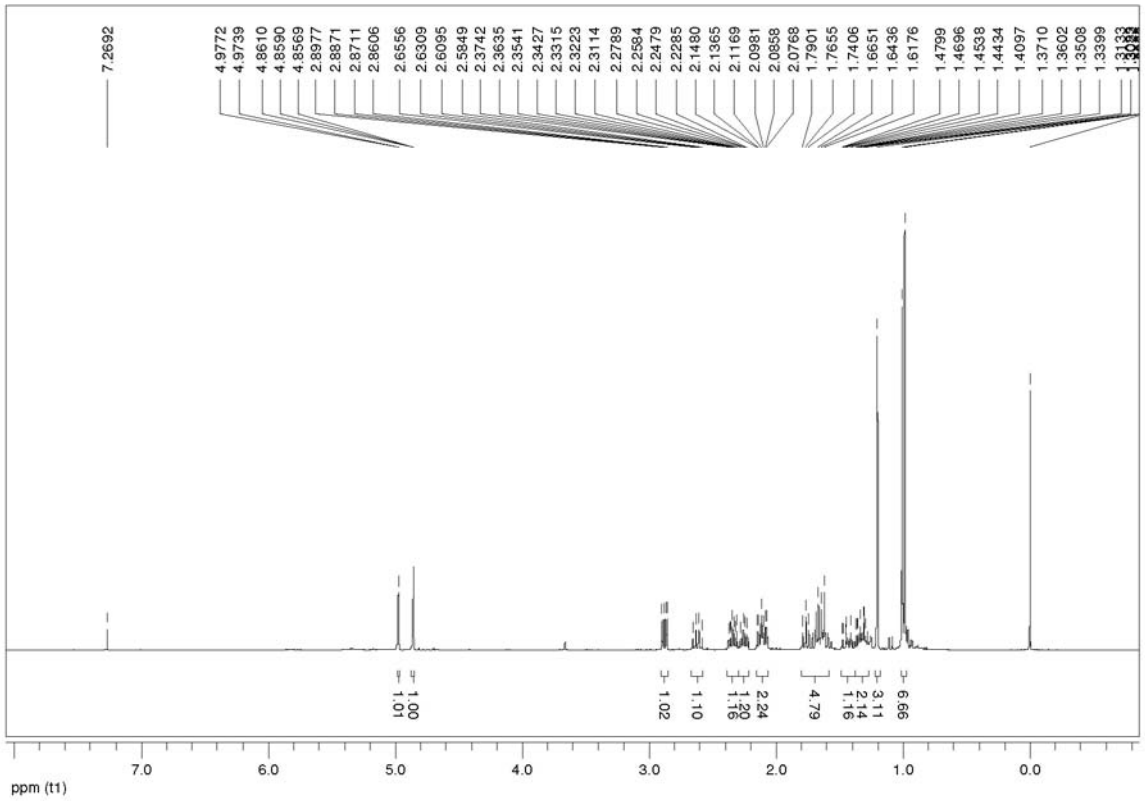

Figure S1. ^{1}H NMR spectrum of compound **1** in $CDCl_3$ at 400 MHz.

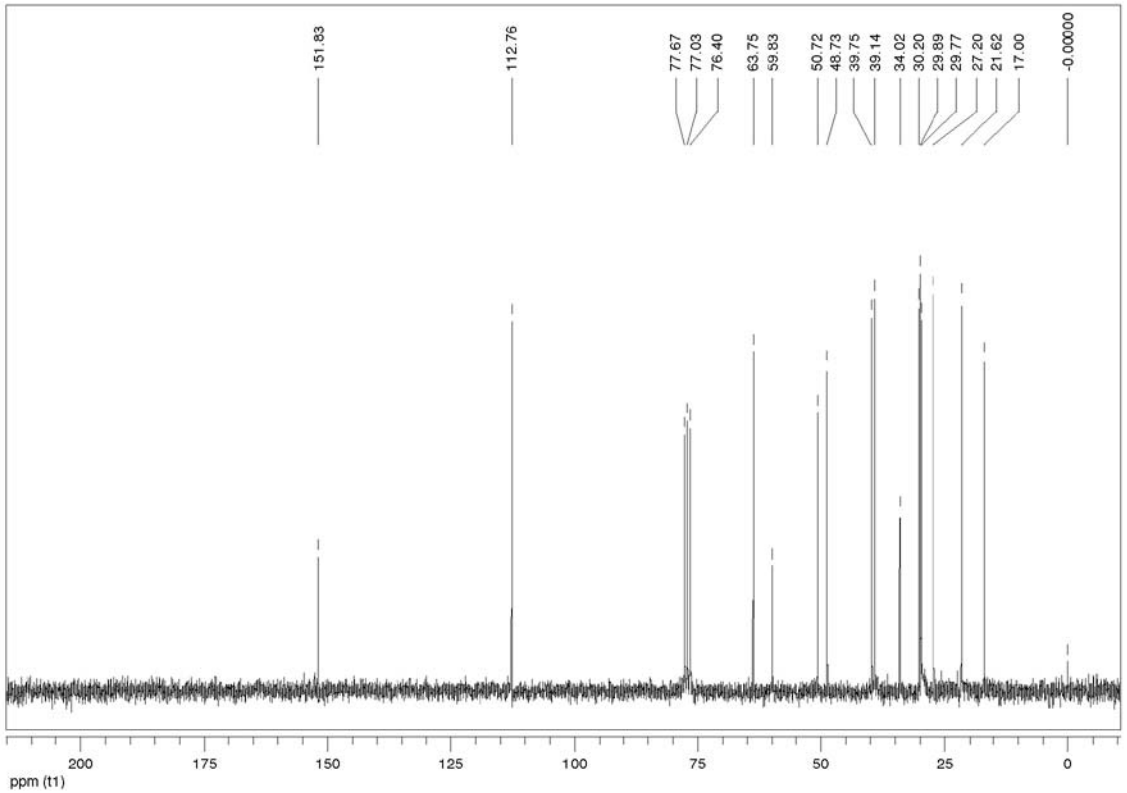

Figure S2. $^{13}C\{^{1}H\}$ NMR spectrum of compound **1** in $CDCl_3$ at 100 MHz.

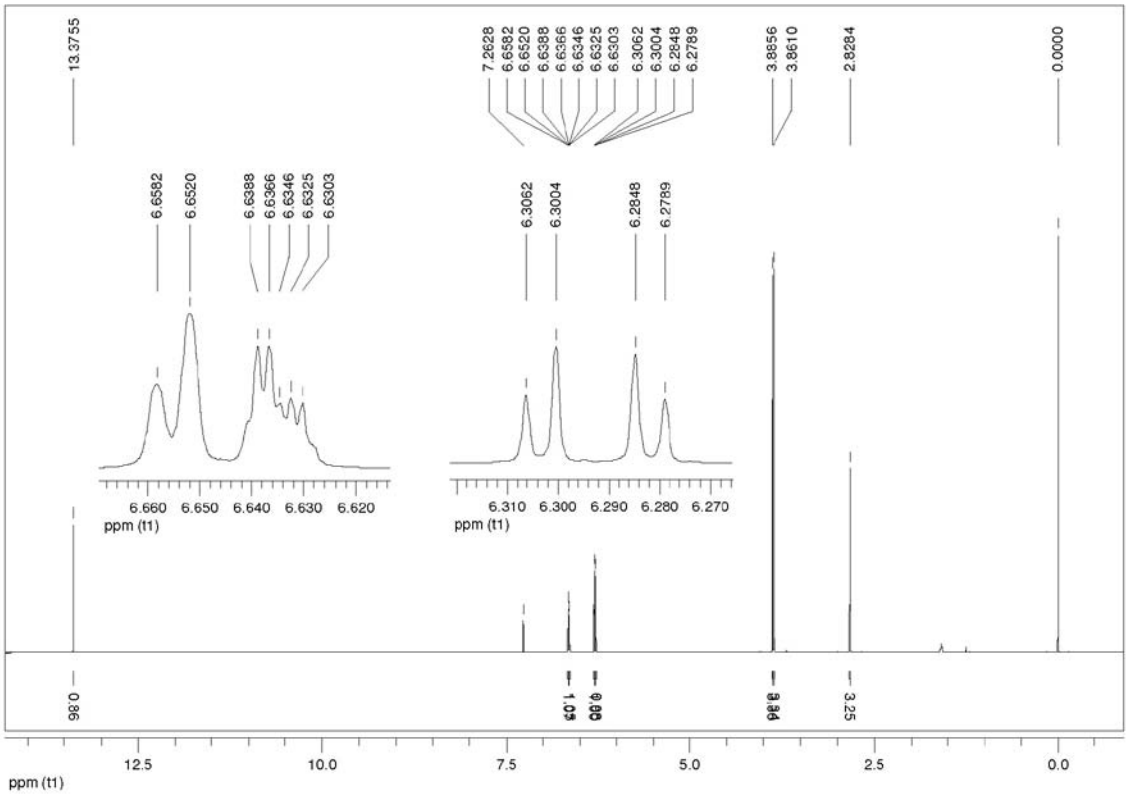

Figure S3. ^{1}H NMR spectrum of compound **2** in $CDCl_3$ at 400 MHz.

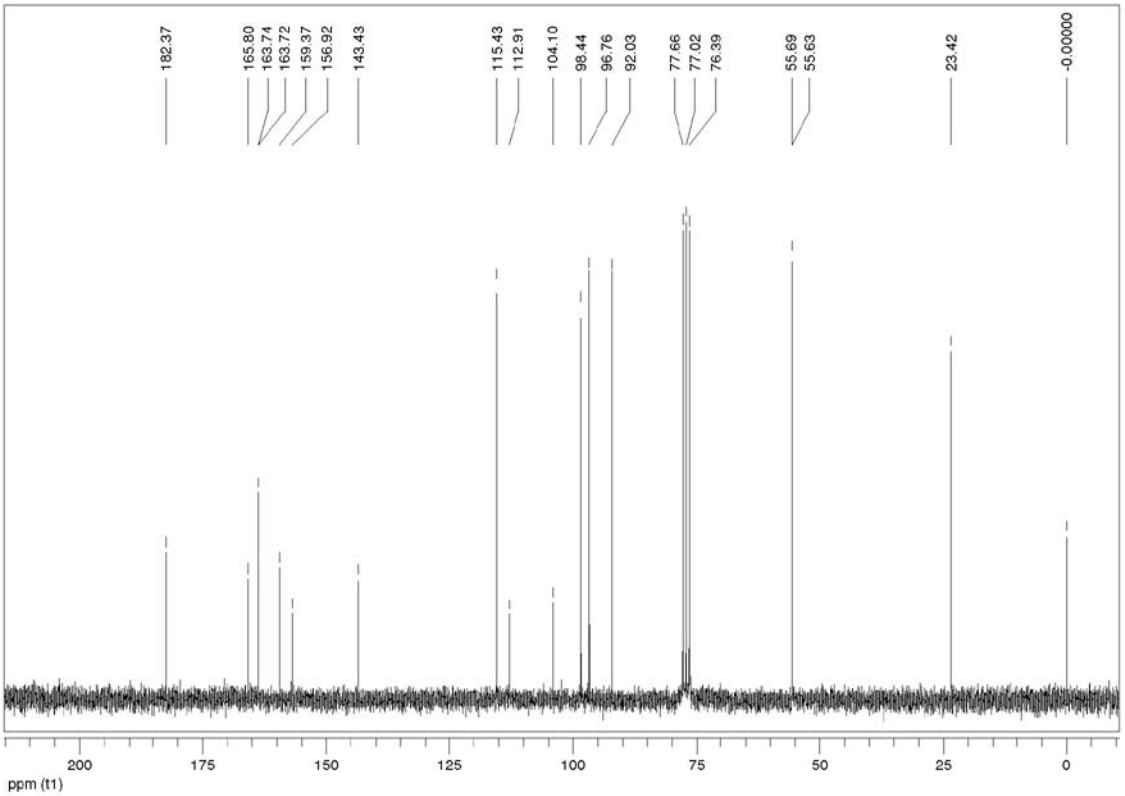

Figure S4. $^{13}C\{^{1}H\}$ NMR spectrum of compound **2** in $CDCl_3$ at 100 MHz.

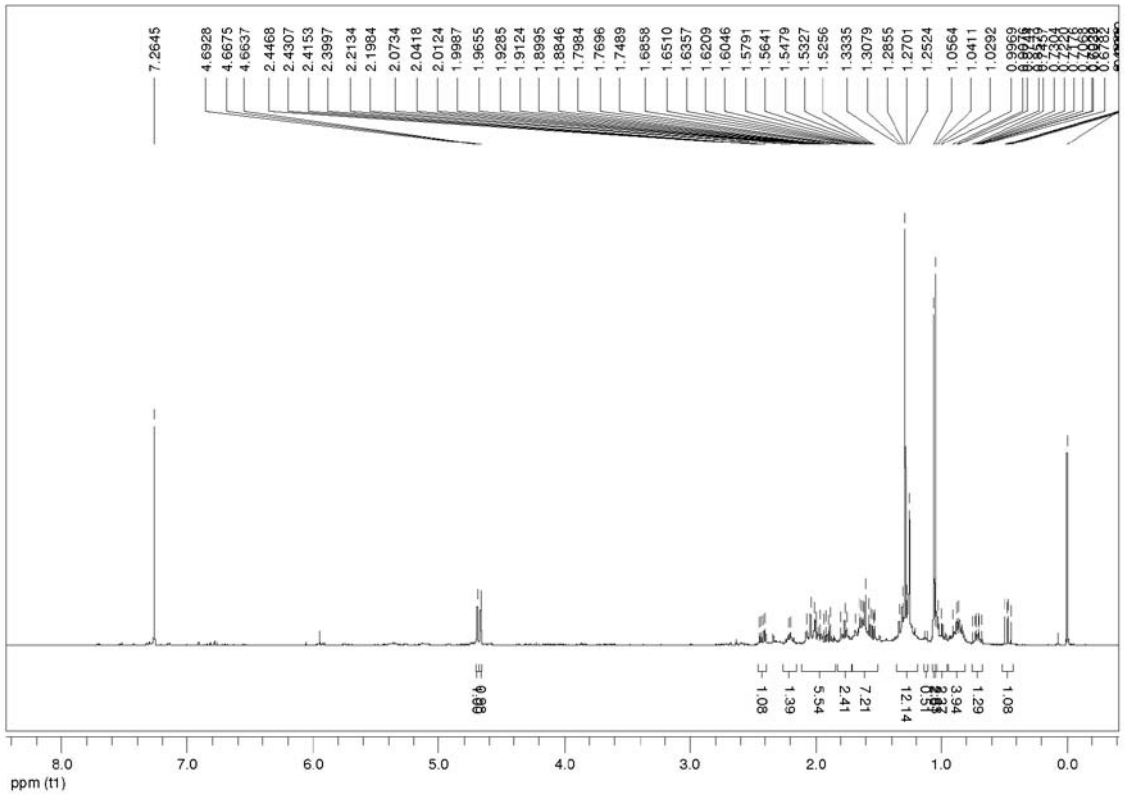

Figure S5. ^{1}H NMR spectrum of compound **3** in $CDCl_3$ at 400 MHz.

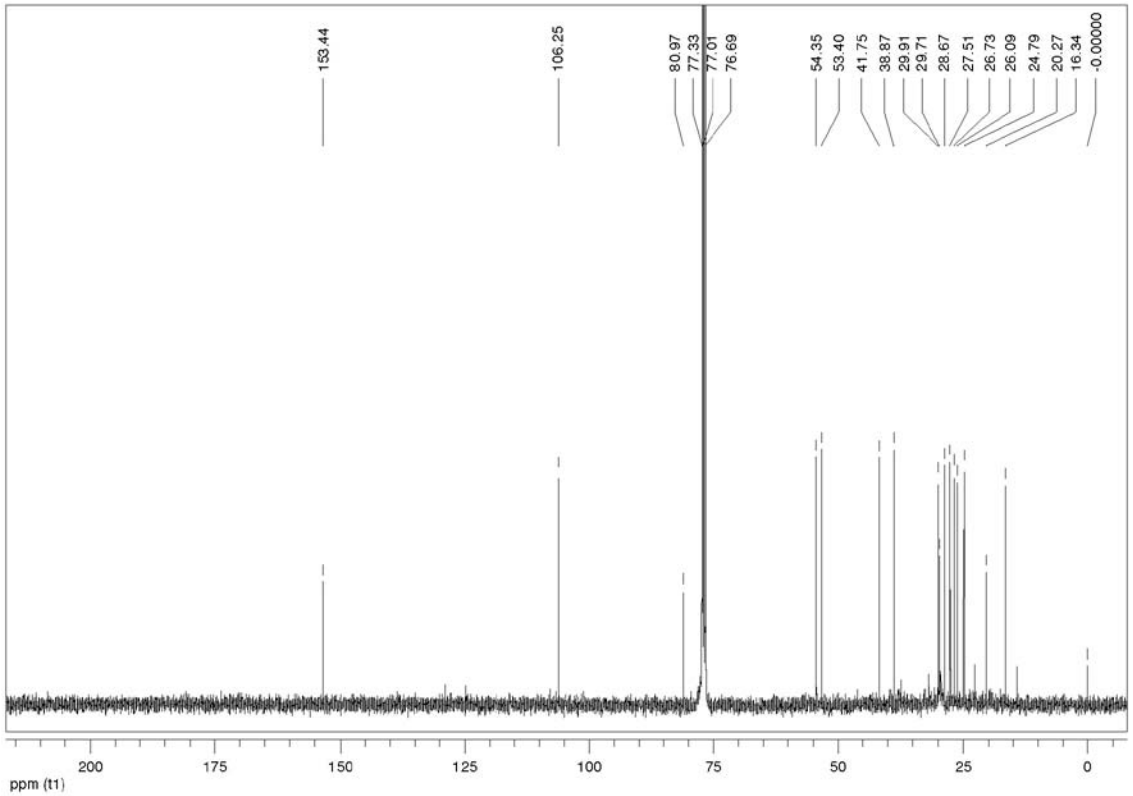

Figure S6. $^{13}C\{^{1}H\}$ NMR spectrum of compound **3** in $CDCl_3$ at 100 MHz.

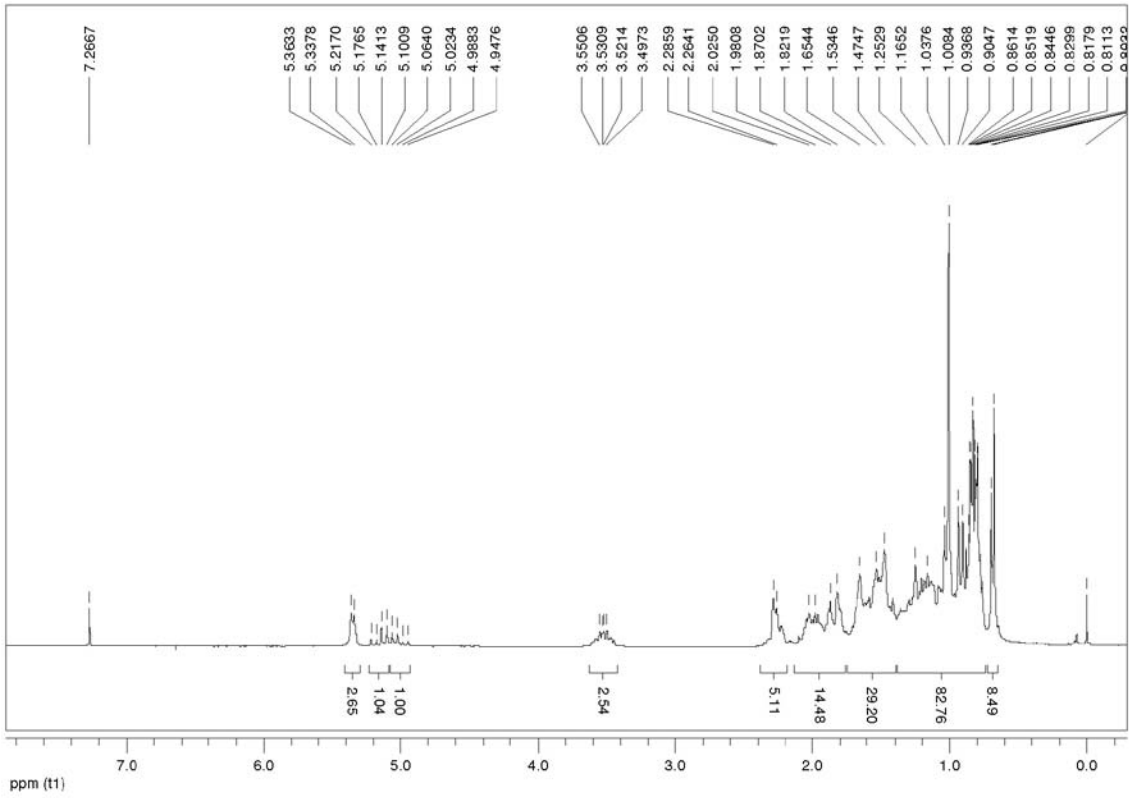

Figure S7. ^{1}H NMR spectrum of the mixture of compounds **4** and **5** in $CDCl_3$ at 200 MHz.

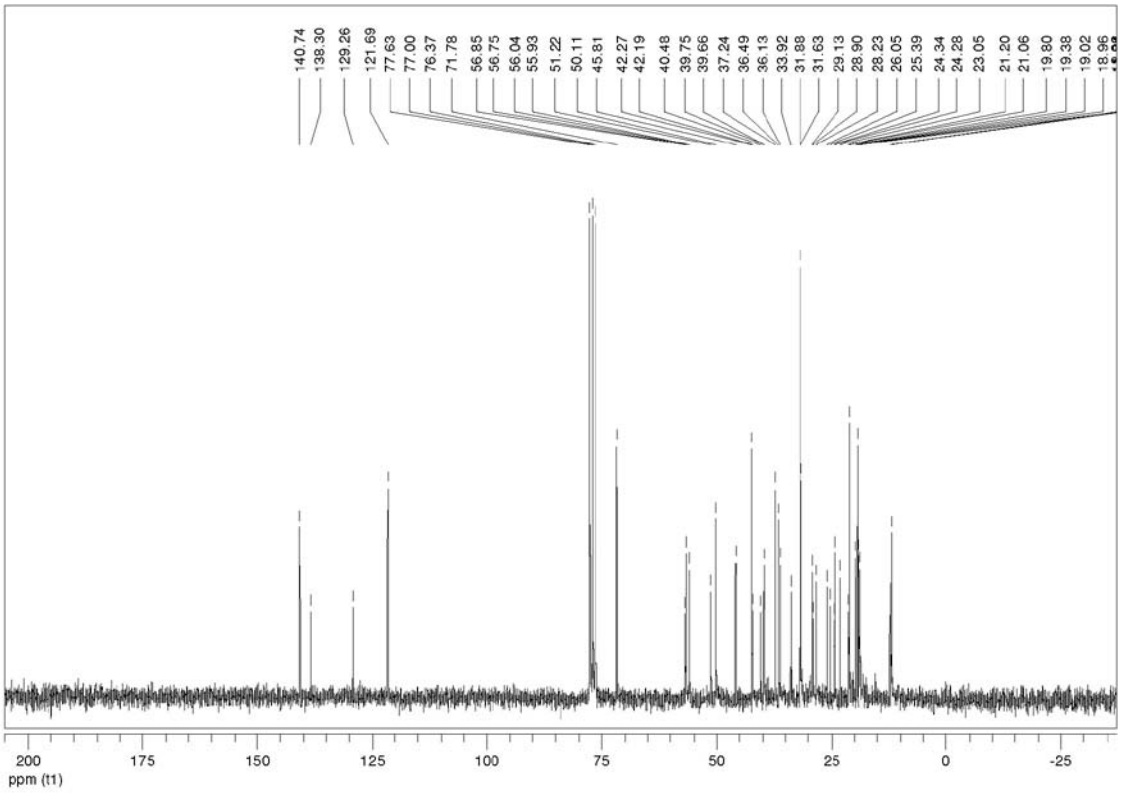

Figure S8. $^{13}C\{^{1}H\}$ NMR spectrum of the mixture of compounds **4** and **5** in $CDCl_3$ at 50 MHz.

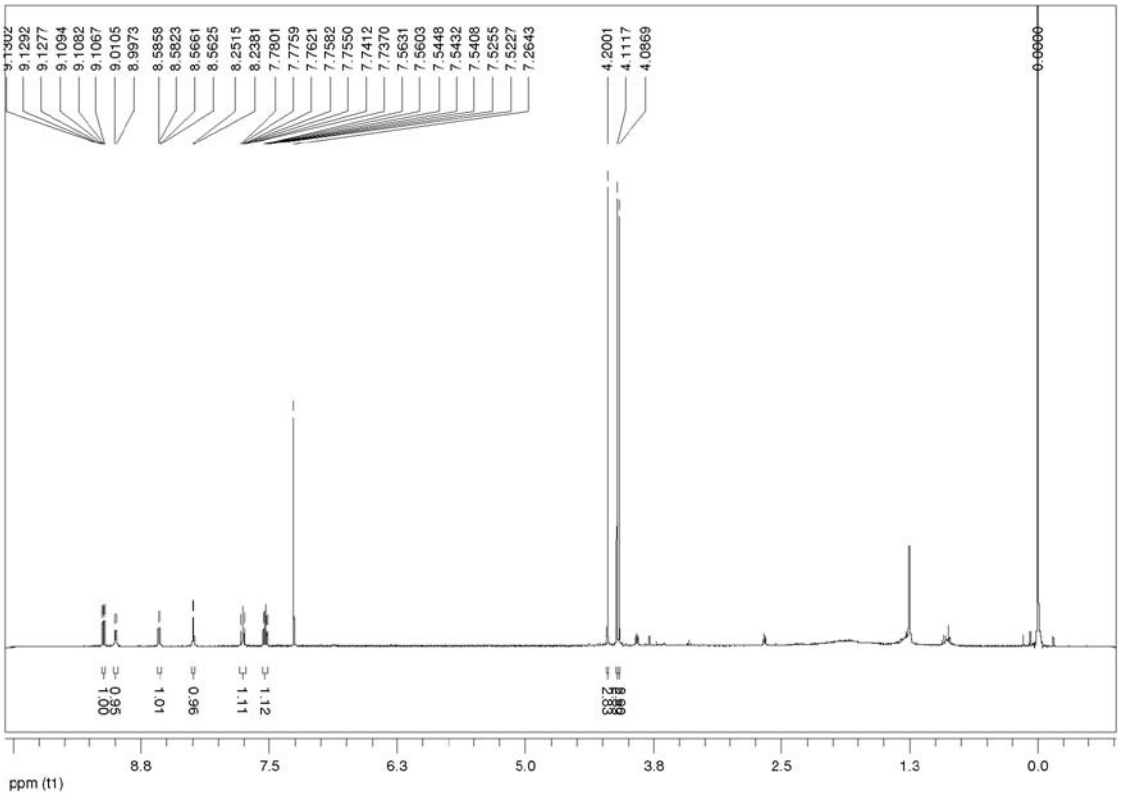

Figure S9. ^{1}H NMR spectrum of compound **6** in $CDCl_3$ at 400 MHz.

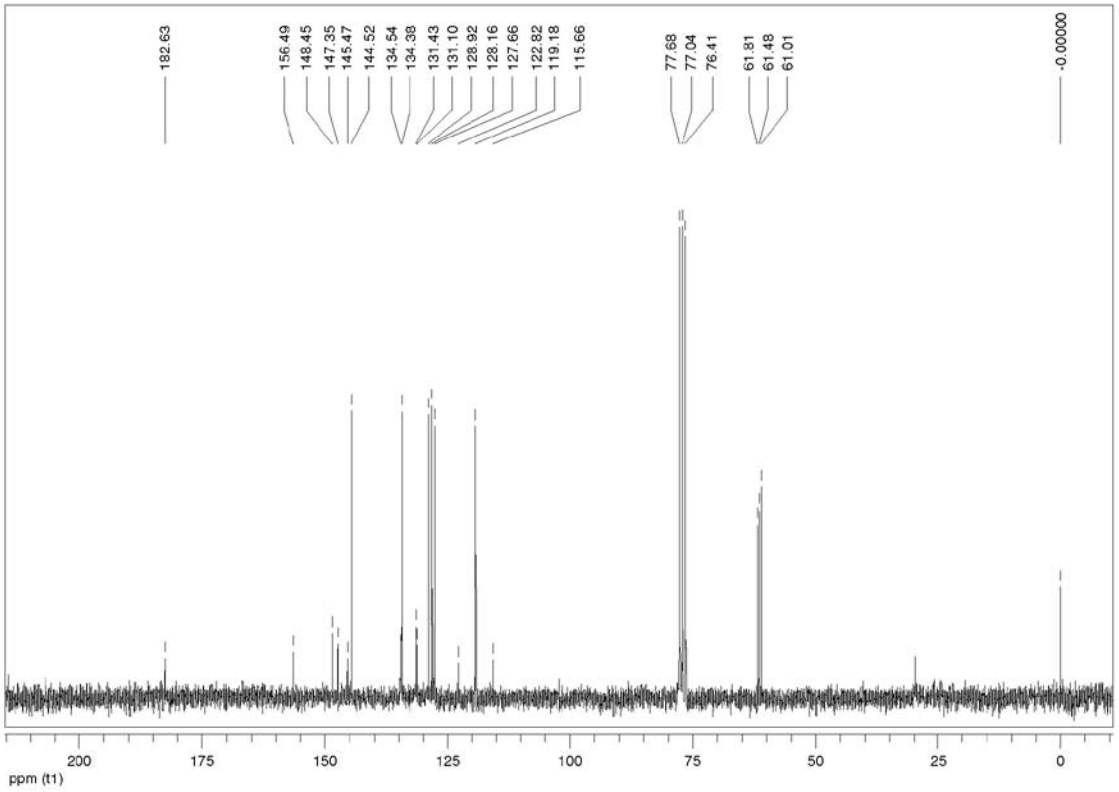

Figure S10. $^{13}C\{^{1}H\}$ NMR spectrum of compound **6** in $CDCl_3$ at 100 MHz.

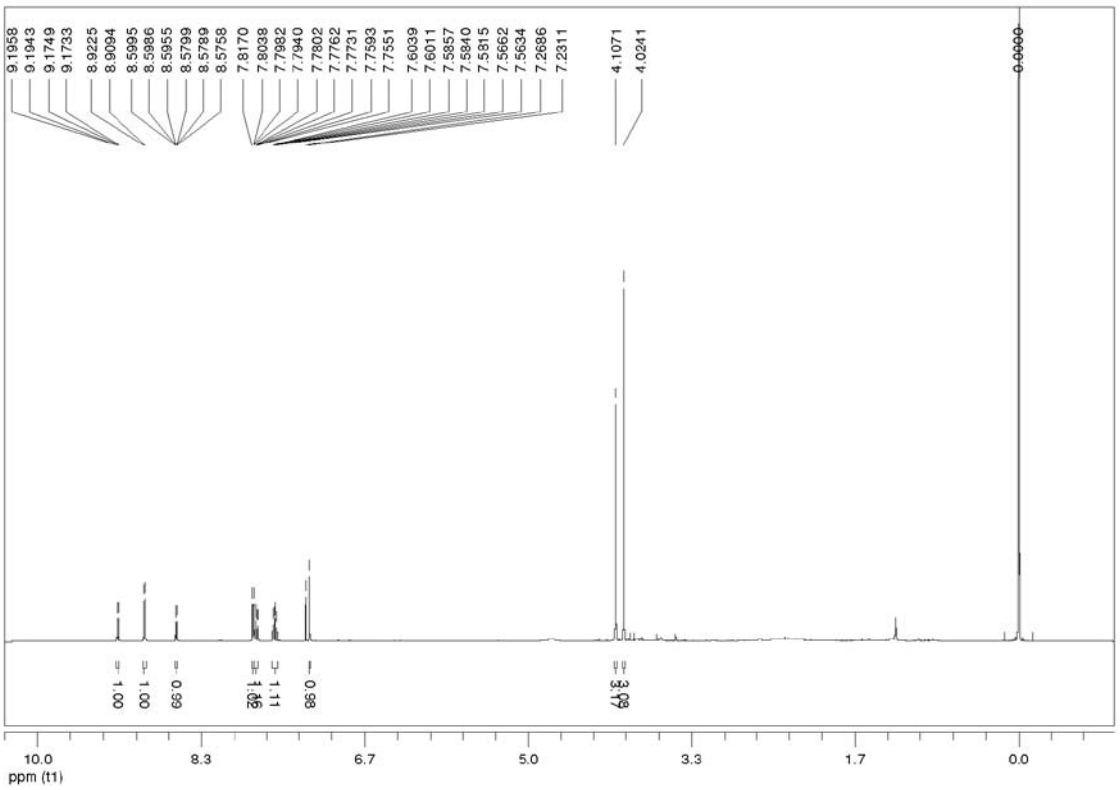

Figure S11. ^{1}H NMR spectrum of compound **7** in $CDCl_3$ at 400 MHz.

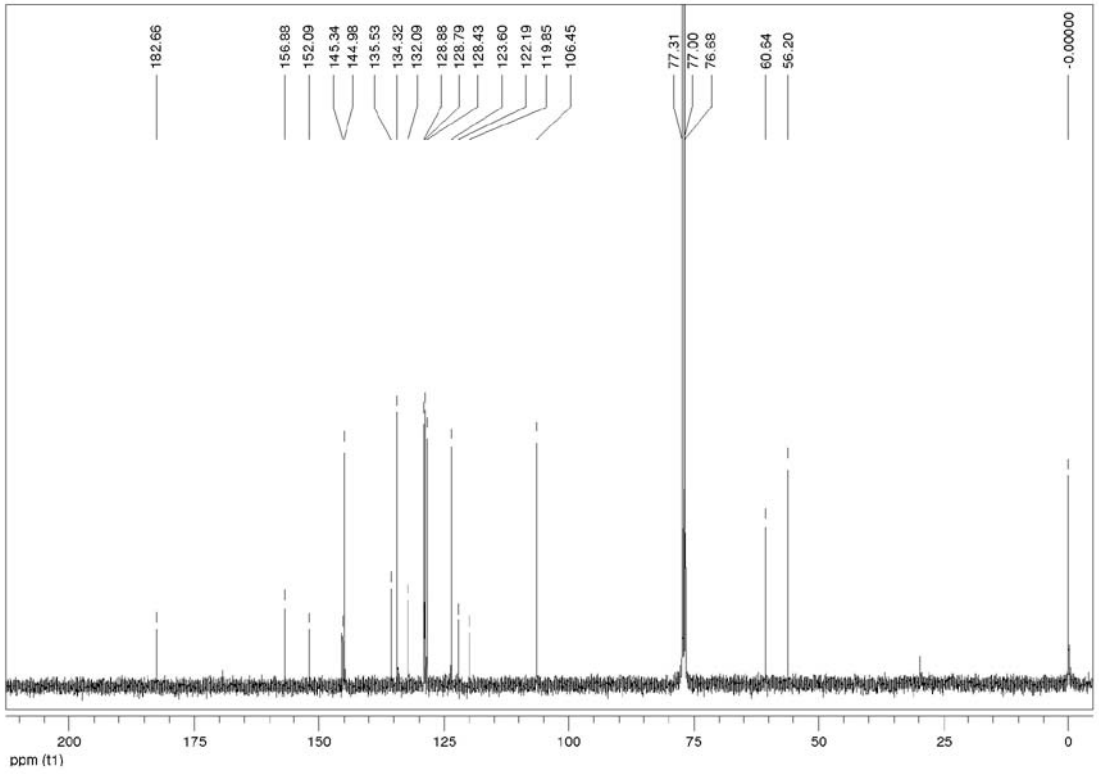

Figure S12. $^{13}C\{^{1}H\}$ NMR spectrum of compound **7** in $CDCl_3$ at 100 MHz.

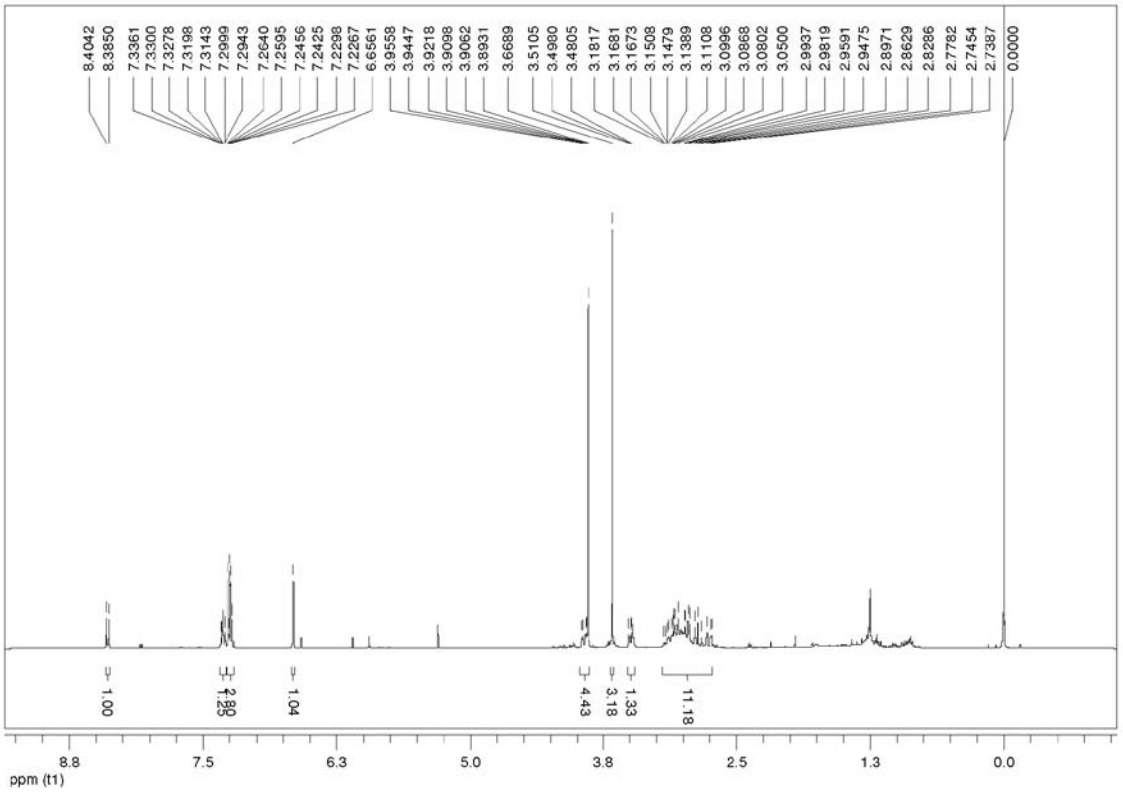

Figure S13. ^{1}H NMR spectrum of compound **8** in $CDCl_3$ at 400 MHz.

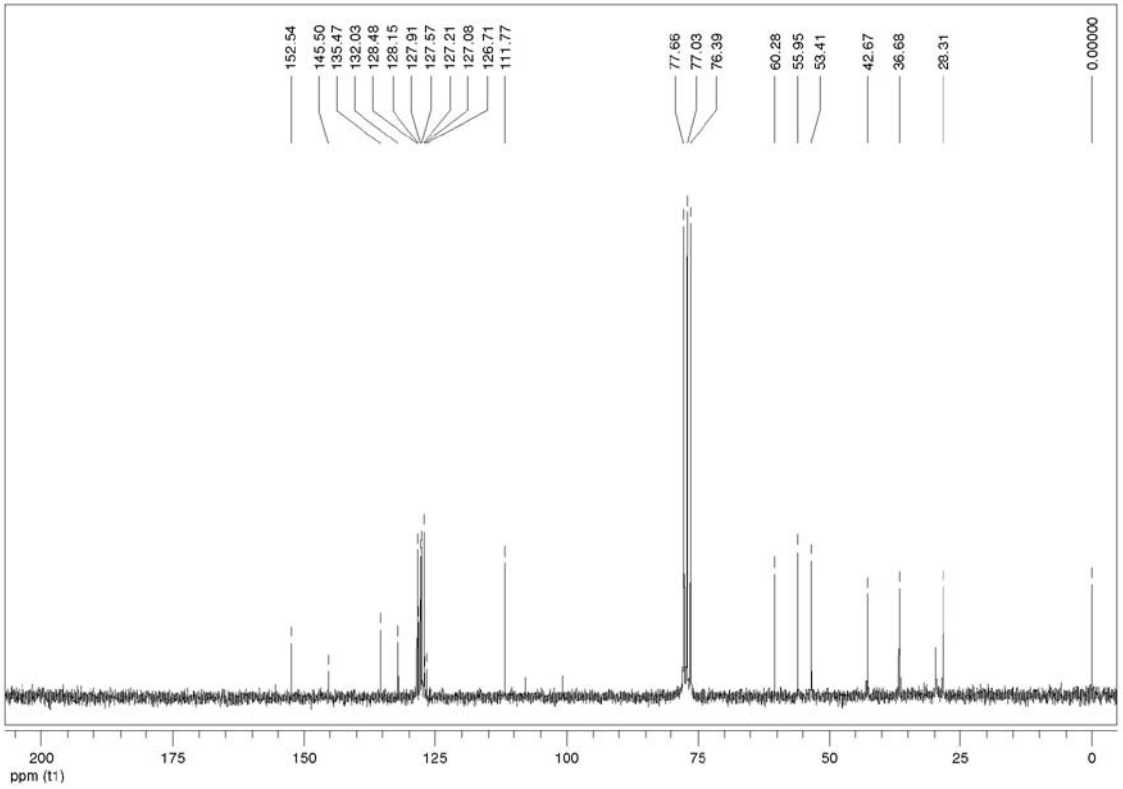

Figure S14. $^{13}C\{^{1}H\}$ NMR spectrum of compound **8** in $CDCl_3$ at 100 MHz.

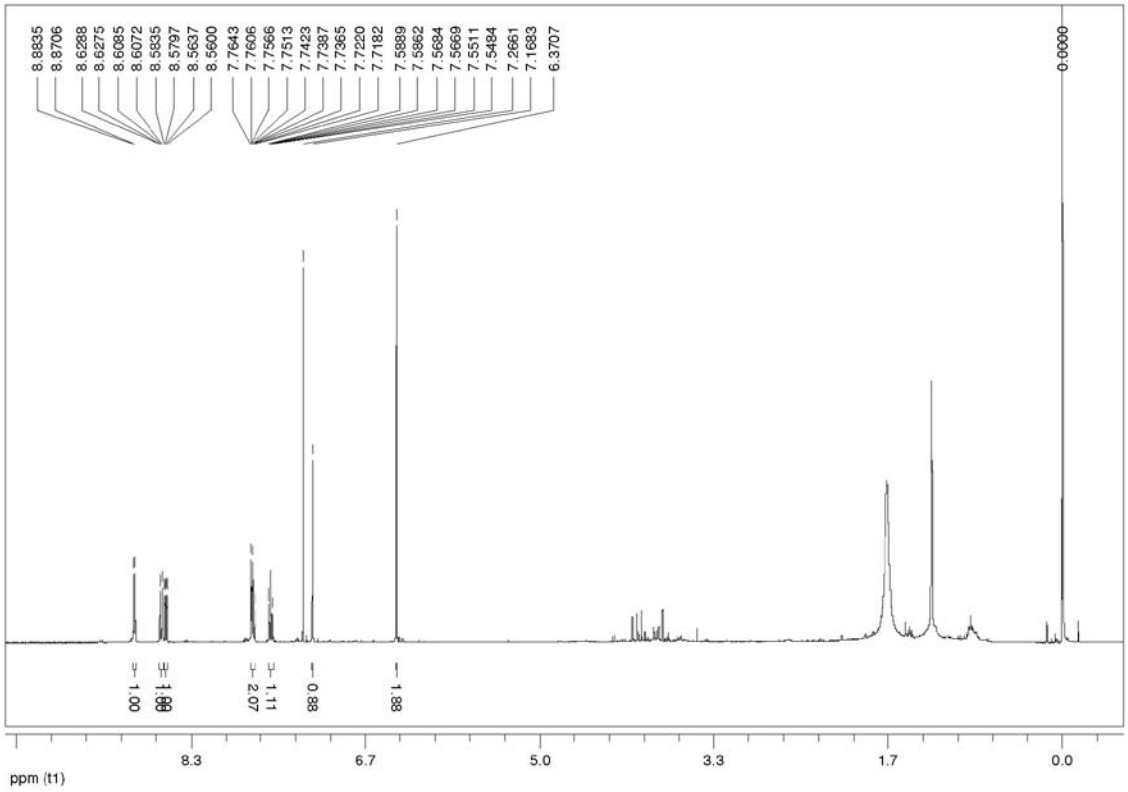

Figure S15. ^{1}H NMR spectrum of compound **9** in $CDCl_3$ at 400 MHz.

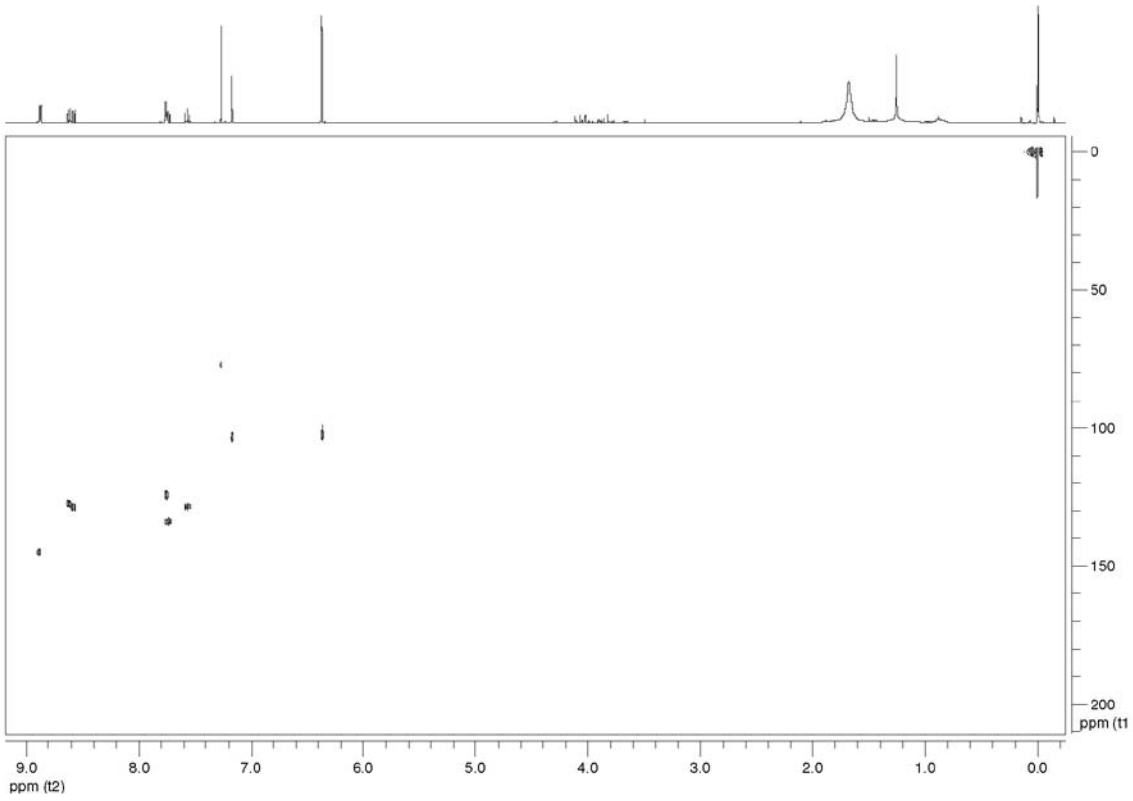

Figure S16. ^{1}H-^{13}C one-bond correlation map from HSQC NMR experiment of compound **9** in $CDCl_3$ at 400 and 100 MHz.

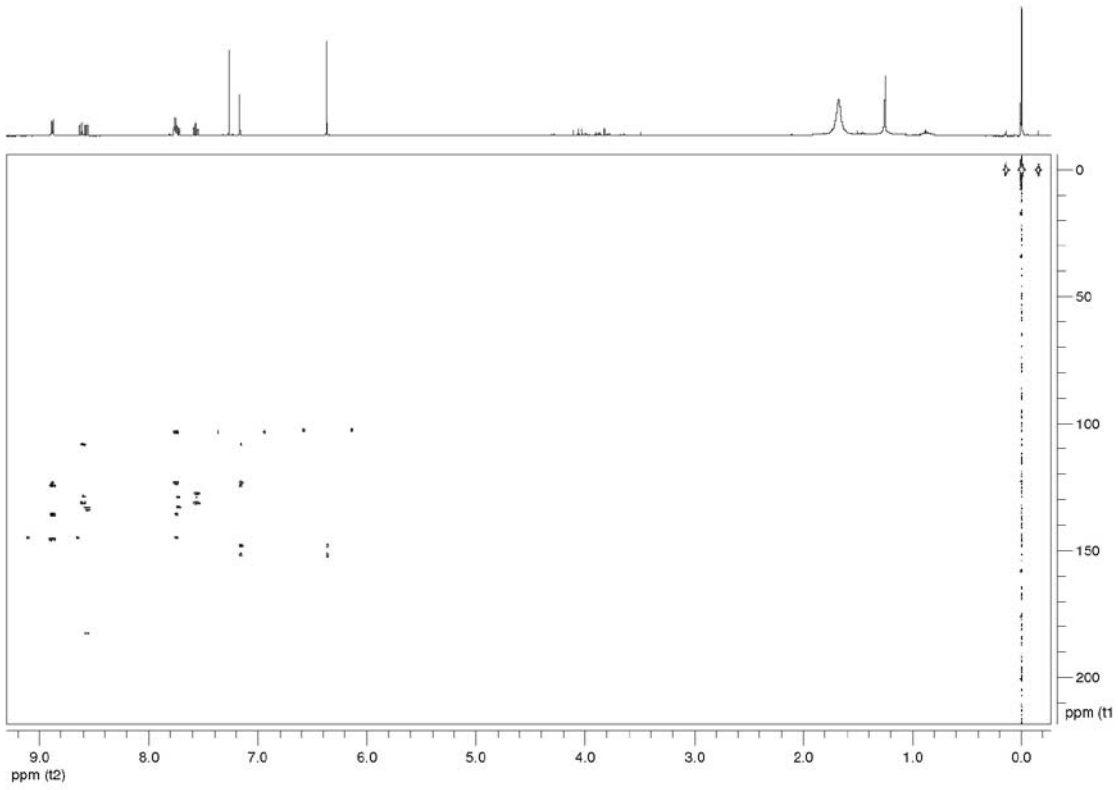

Figure S17. ^{1}H-^{13}C long-range correlation map from HMBC NMR experiment of compound **9** in $CDCl_3$ at 400 and 100 MHz.

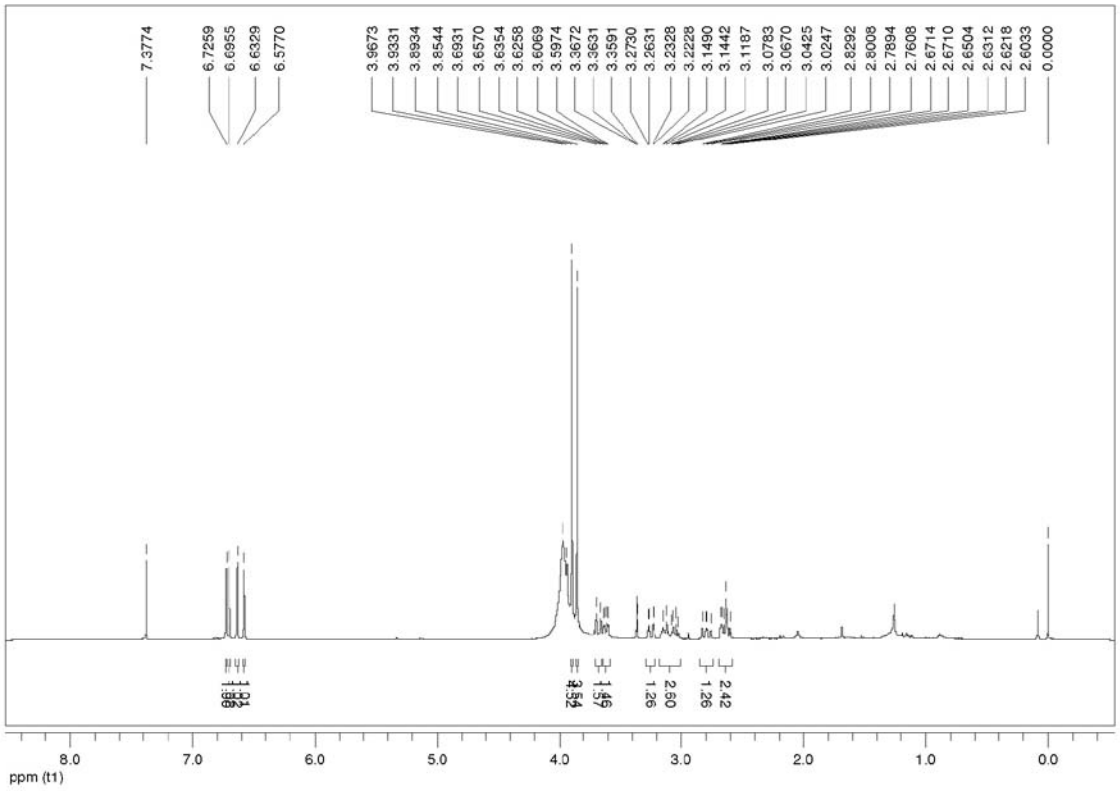

Figure S18. ^{1}H NMR spectrum of compound **10** in $CDCl_3$ + drops of CD_3OD at 400 MHz.

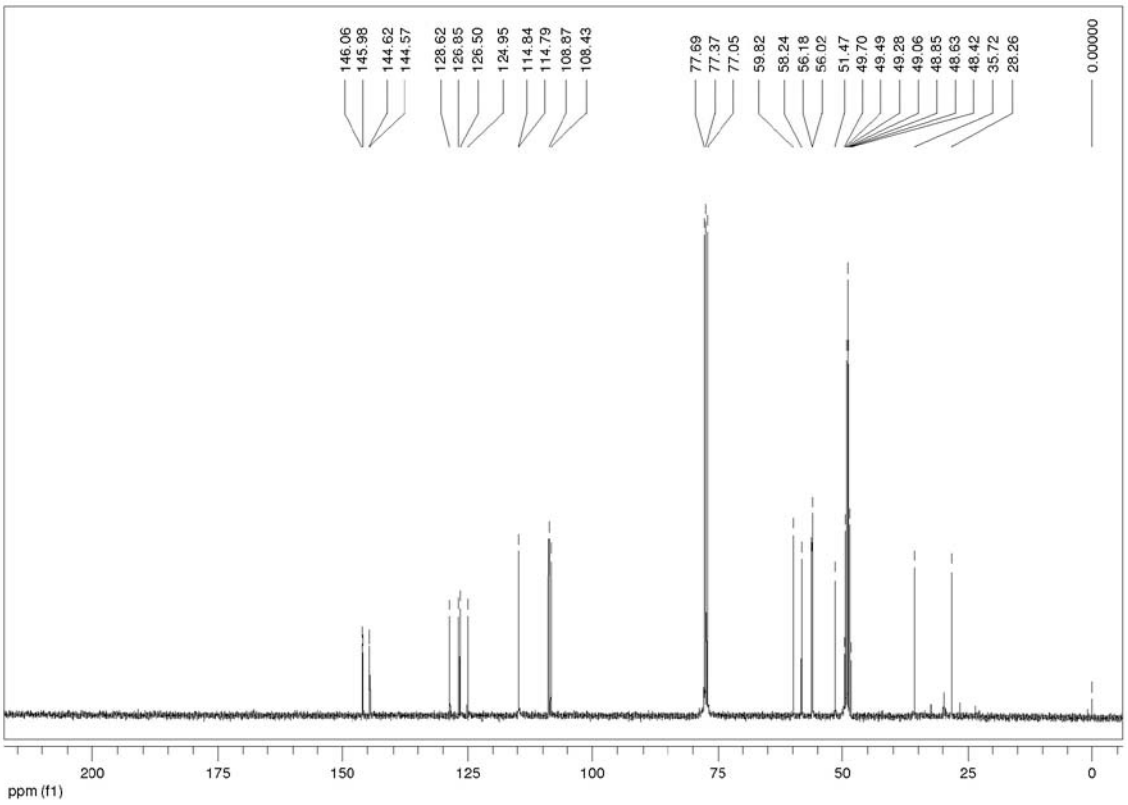

Figure S19. $^{13}C\{^{1}H\}$ NMR spectrum of compound **10** in $CDCl_3$ + drops of CD_3OD at 100 MHz.

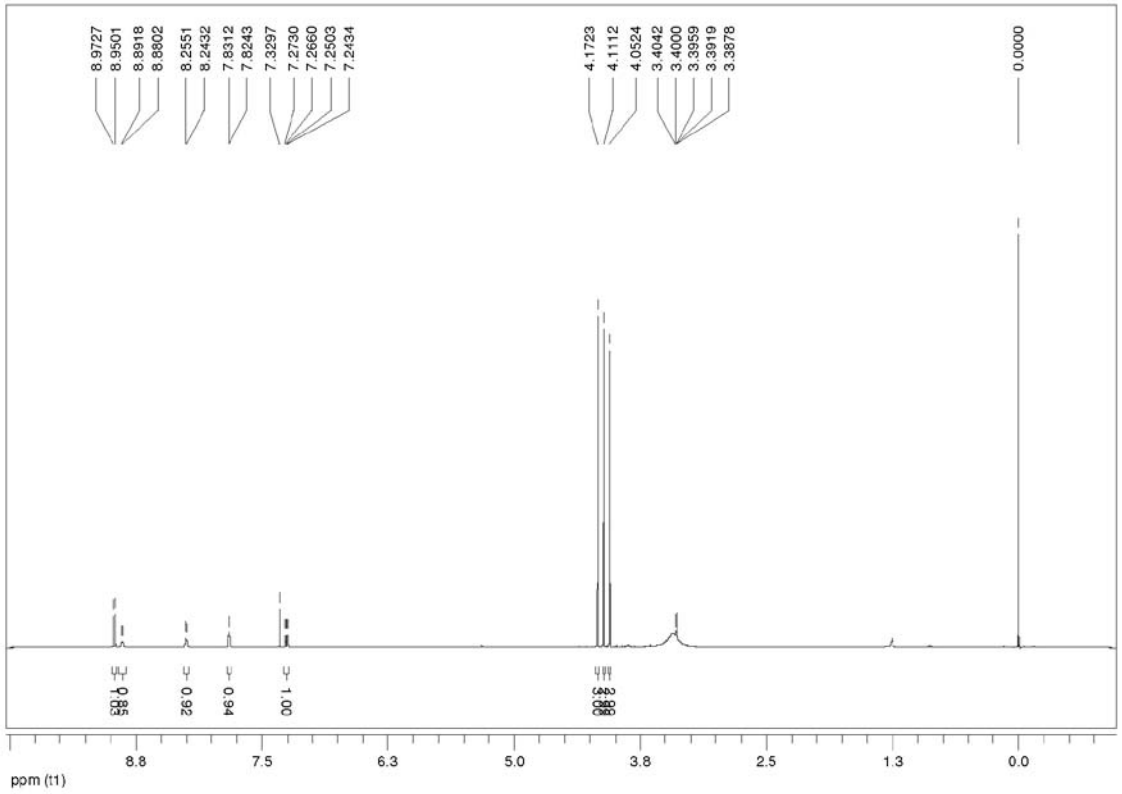

Figure S20. ^{1}H NMR spectrum of compound **11** in $CDCl_3$ + drops of CD_3OD at 400 MHz.

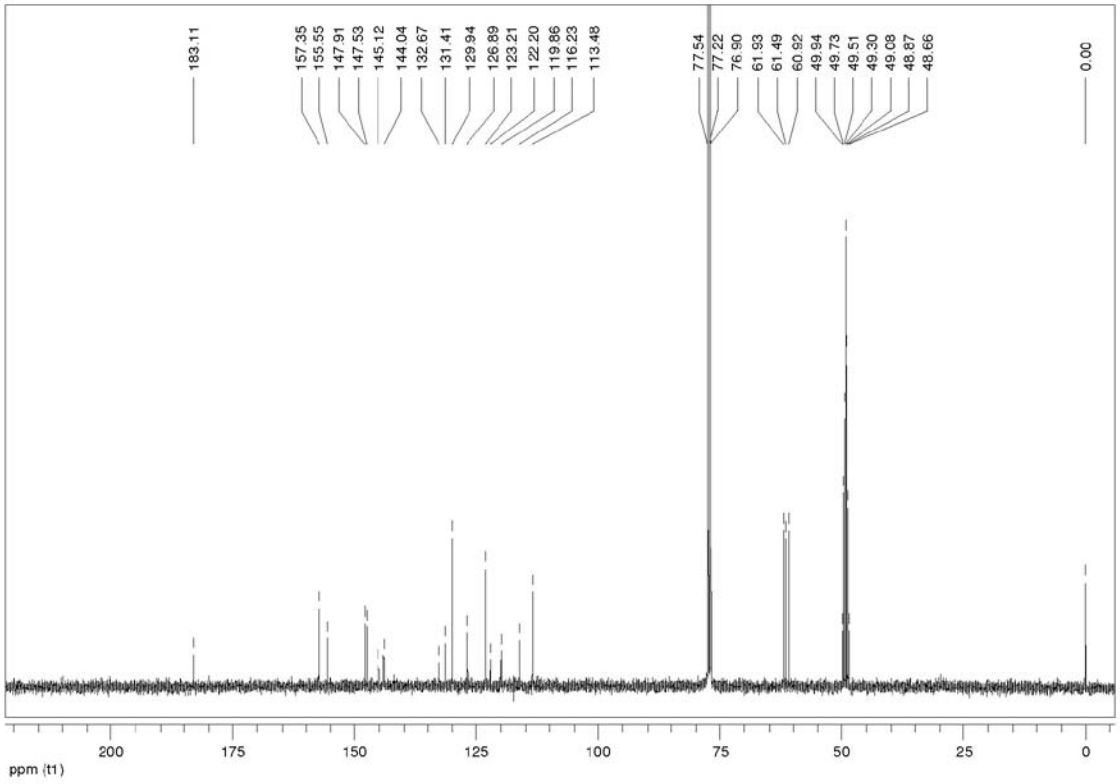

Figure S21. $^{13}C\{^{1}H\}$ NMR spectrum of compound **11** in $CDCl_3$ + drops of CD_3OD at 100 MHz.

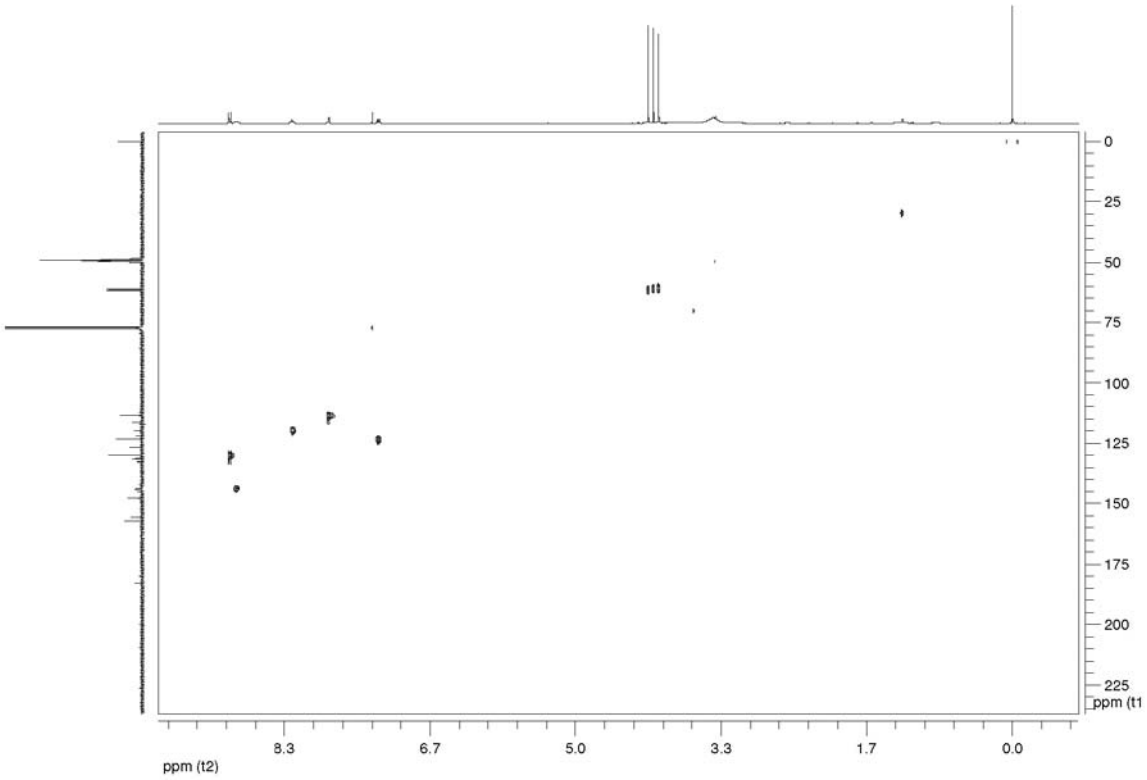

Figure S22. ^{1}H-^{13}C one-bond correlation map from HSQC NMR experiment of compound **11** in $CDCl_3$ + drops of CD_3OD at 400 and 100 MHz.

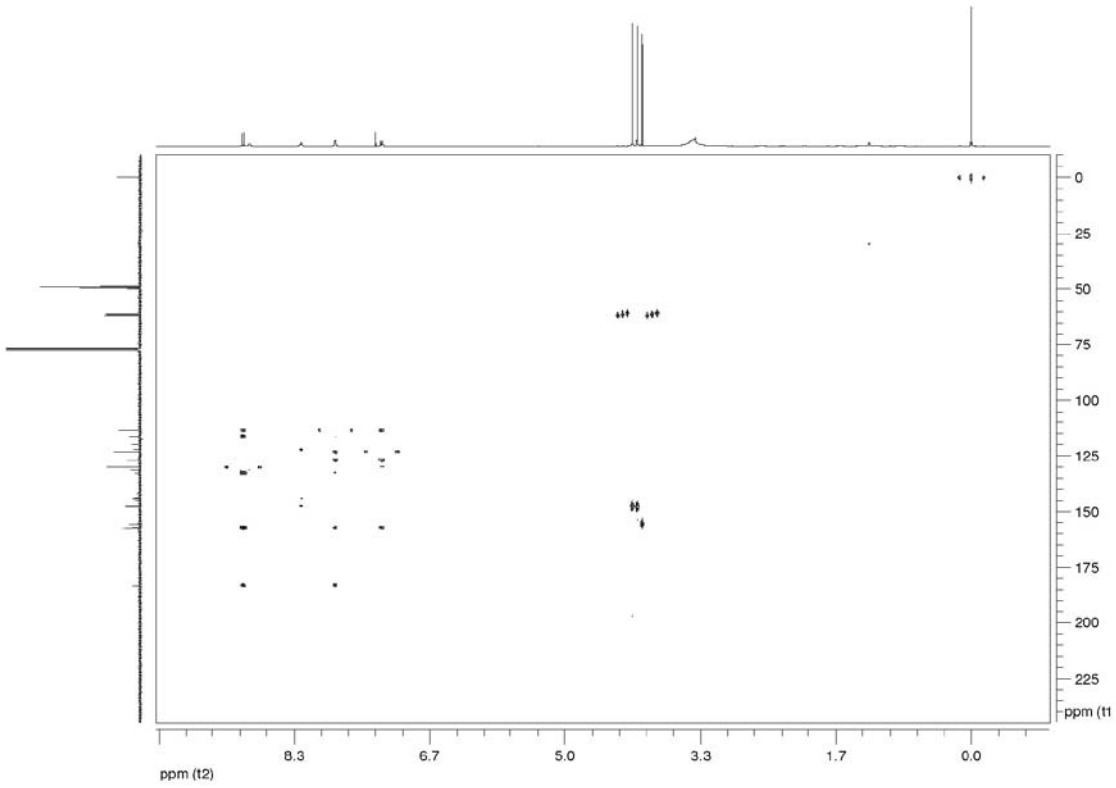

Figure S23. ^{1}H-^{13}C long-range correlation map from HMBC NMR experiment of compound **11** in $CDCl_3$ + drops of CD_3OD at 400 and 100 MHz.

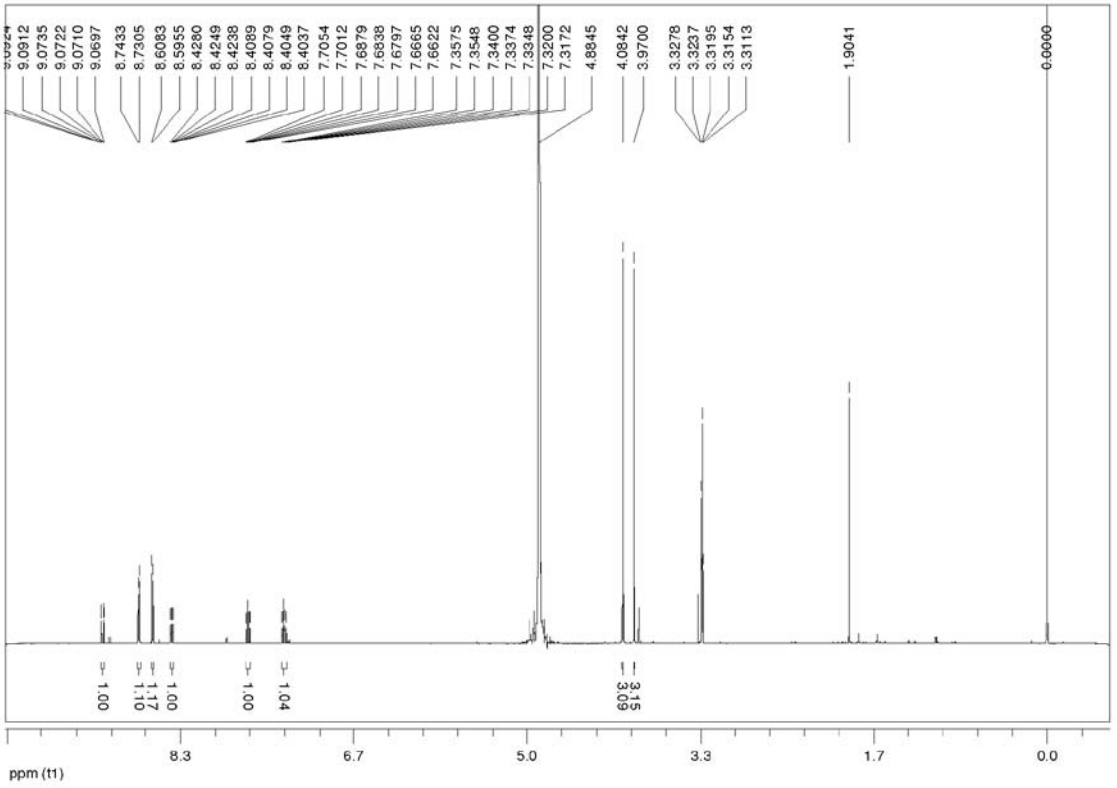

Figure S24. ^{1}H NMR spectrum of compound **12** in CD_3OD at 400 MHz.

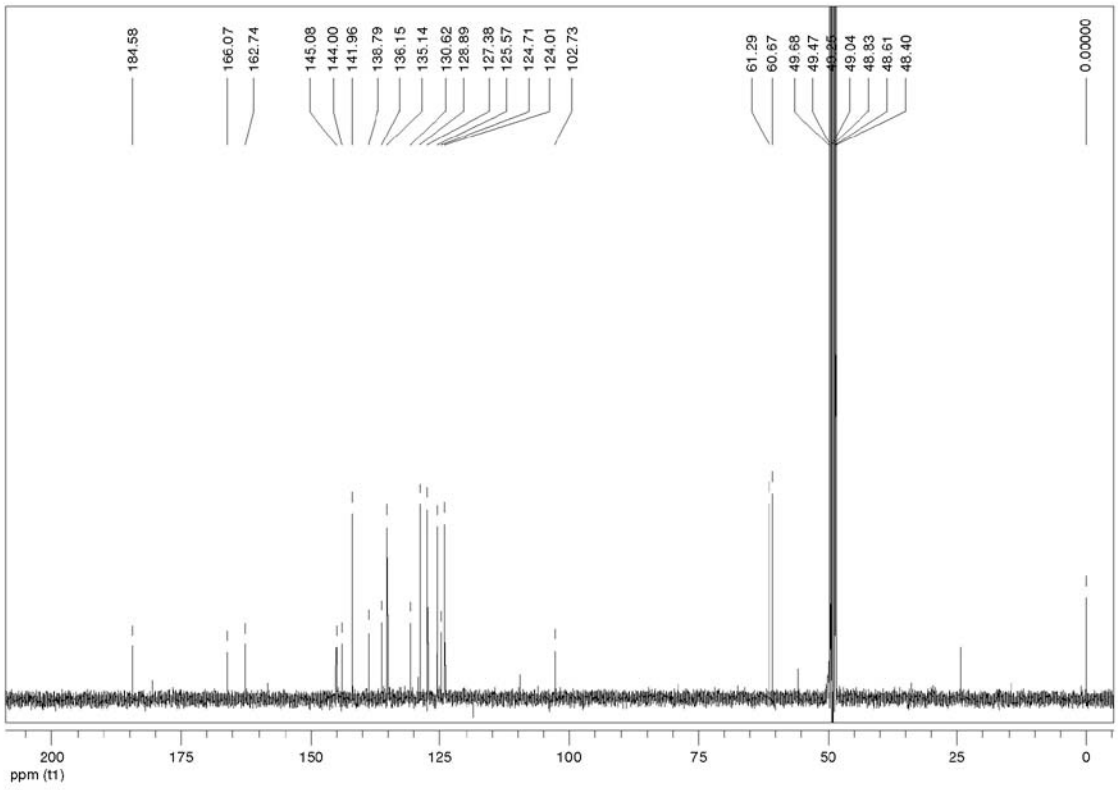

Figure S25. $^{13}C\{^{1}H\}$ NMR spectrum of compound **12** in CD_3OD at 100 MHz.

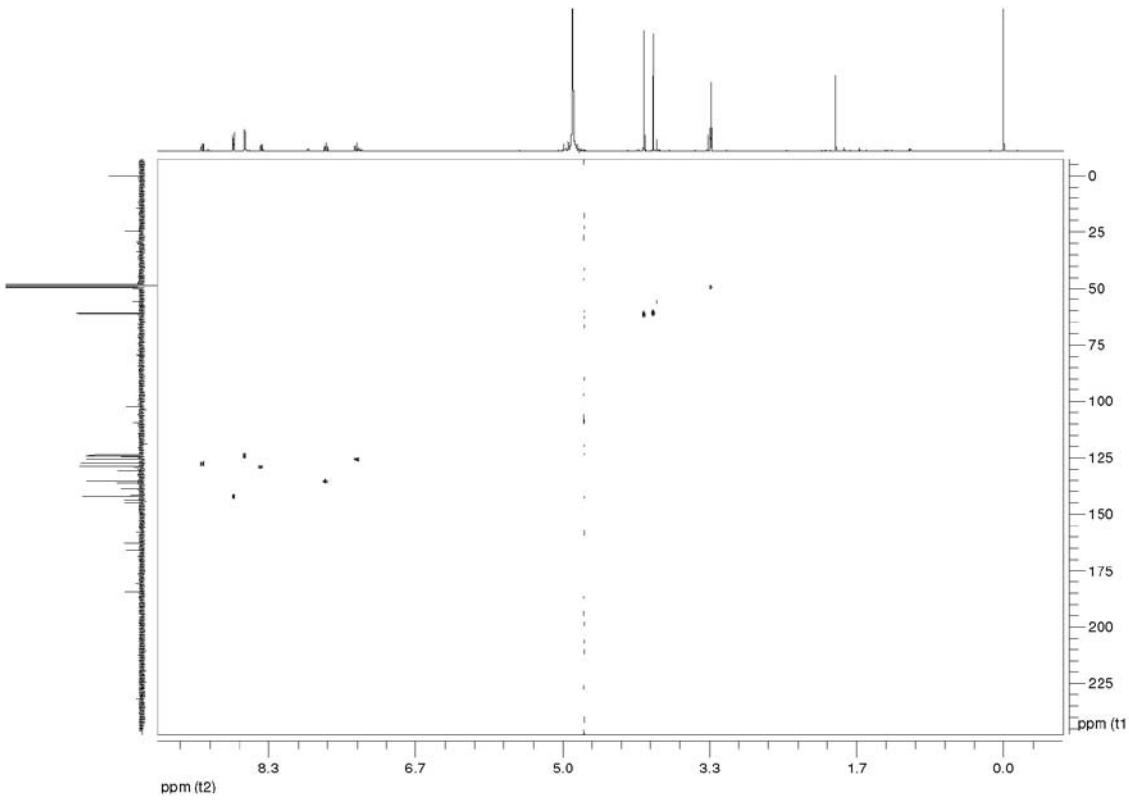

Figure S26. ^{1}H-^{13}C one-bond correlation map from HSQC NMR experiment of compound **12** in CD_3OD at 400 and 100 MHz.

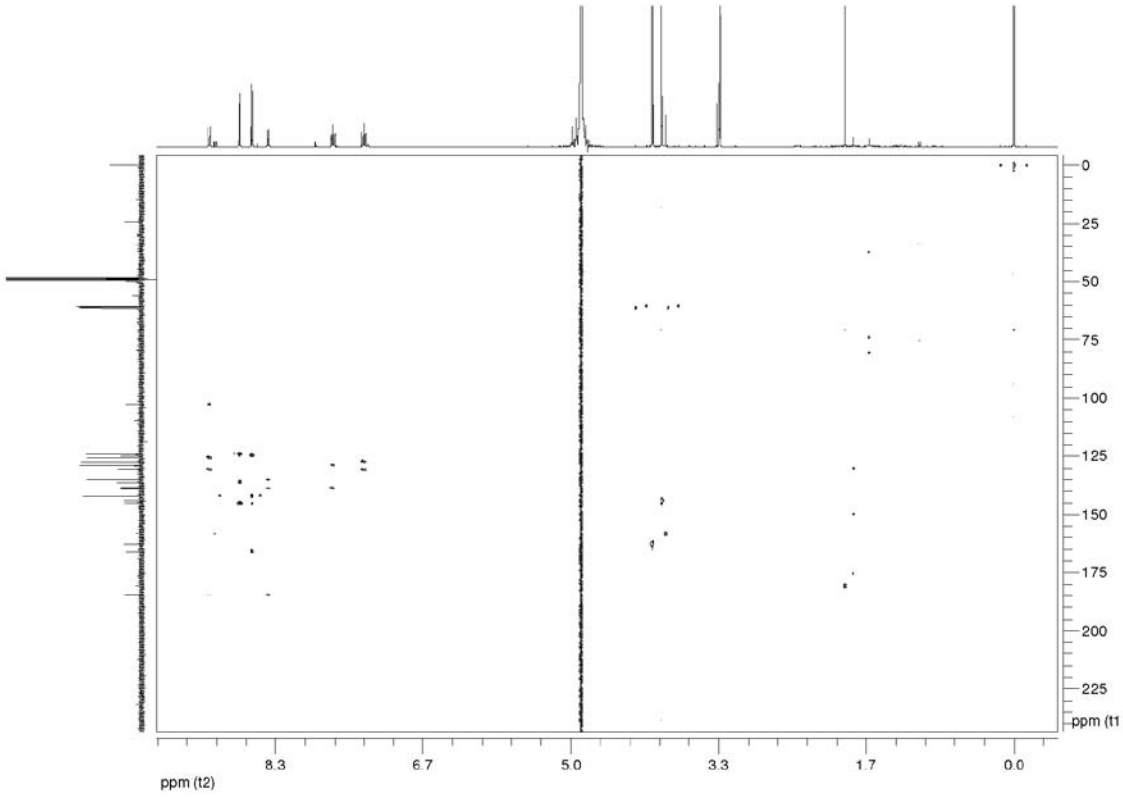

Figure S27. ^{1}H-^{13}C long-range correlation map from HMBC NMR experiment of compound **12** in CD_3OD at 400 and 100 MHz.