

Supplementary Materials: Novel 5-Substituted 2-(Aylmethylthio)-4-chloro-*N*-(5-aryl-1,2,4-triazin-3-yl)benzenesulfonamides: Synthesis, Molecular Structure, Anticancer Activity, Apoptosis-Inducing Activity and Metabolic Stability

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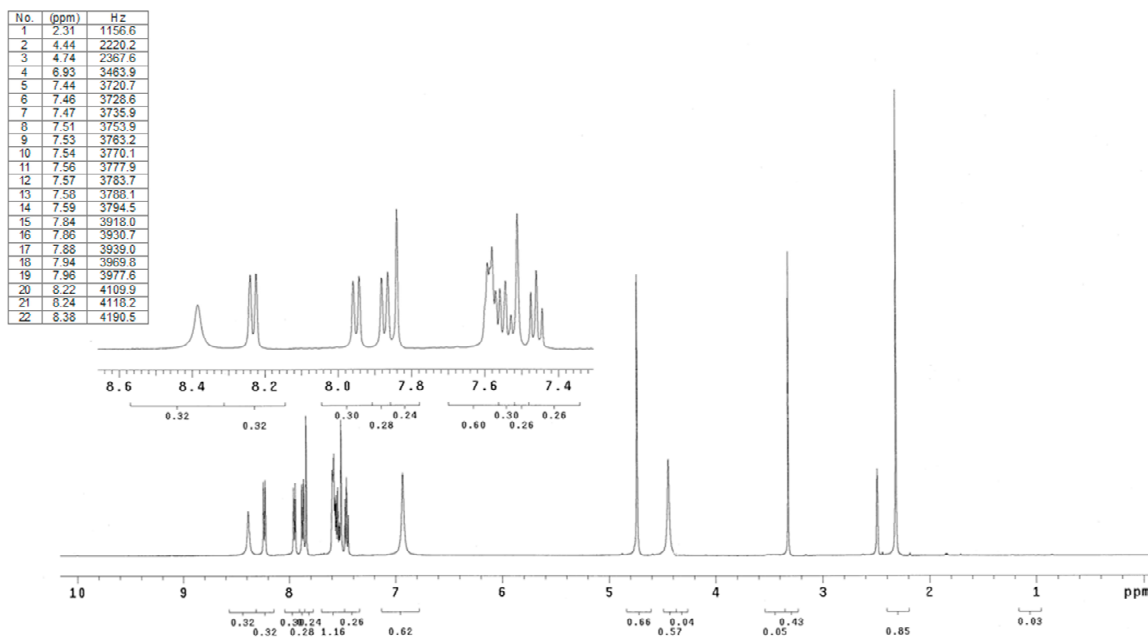


Figure S1. ¹H-NMR of compd 21 (500 MHz, DMSO-*d*₆).

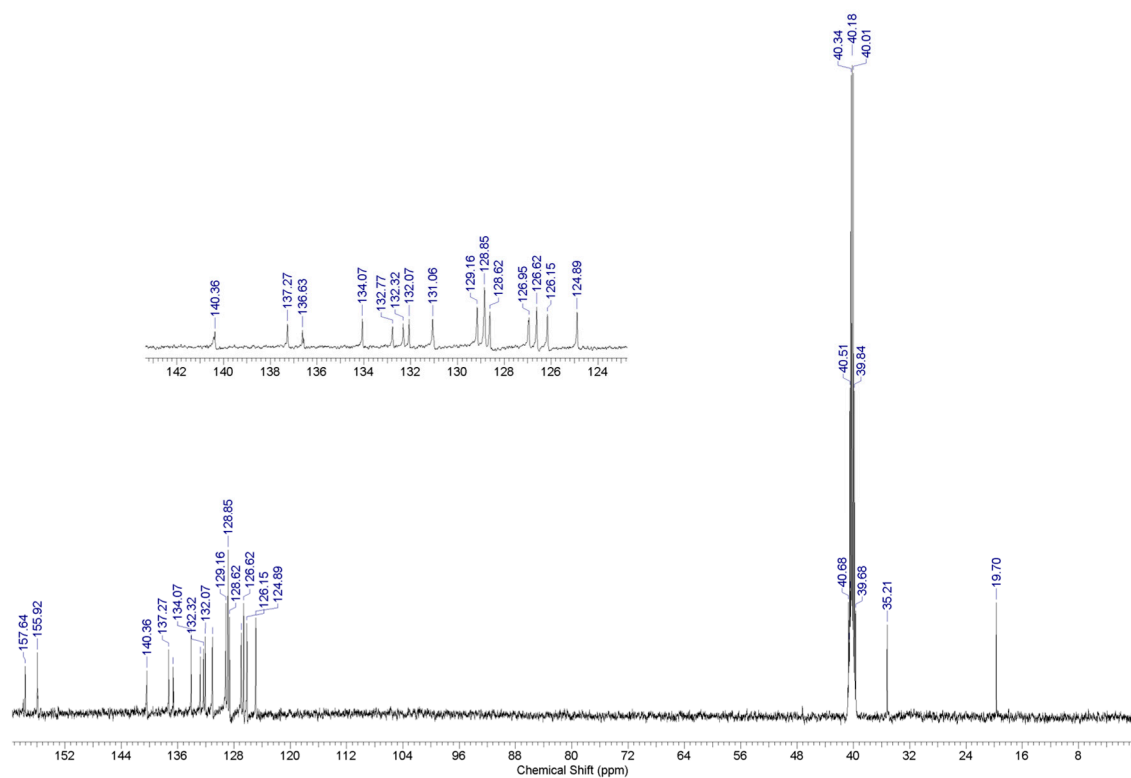


Figure S2. ^{13}C -NMR of compd 21 (125 MHz, $\text{DMSO-}d_6$).

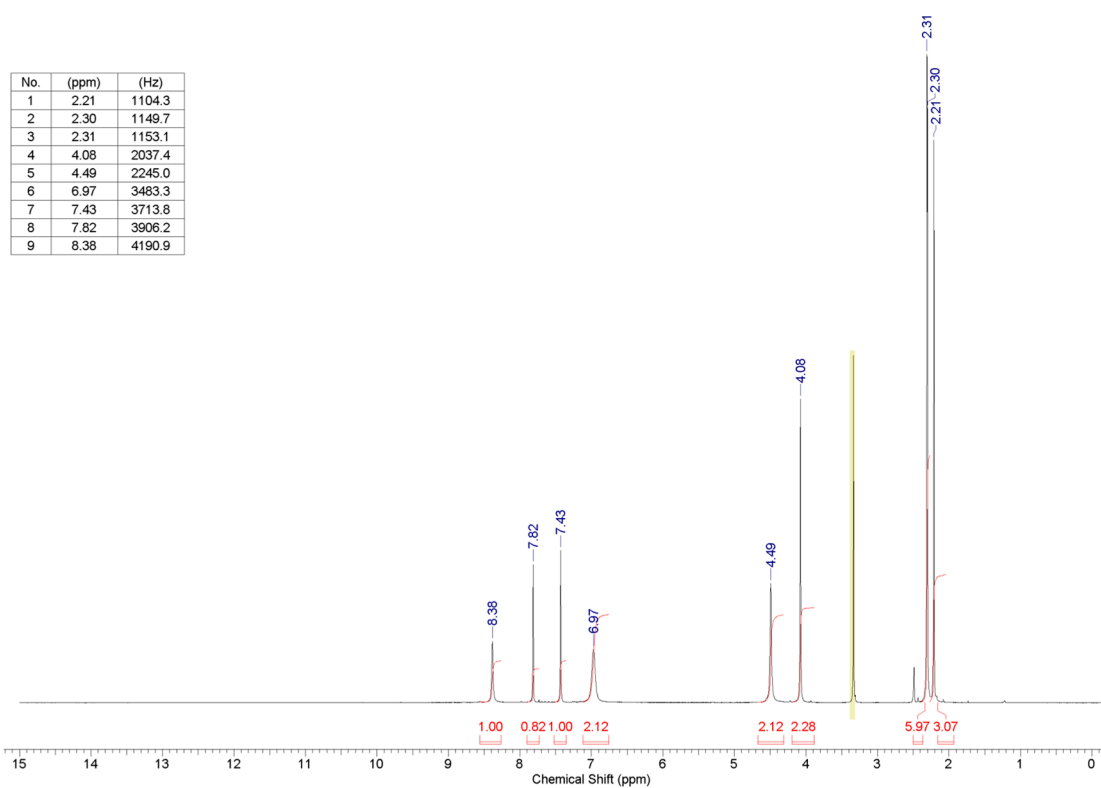
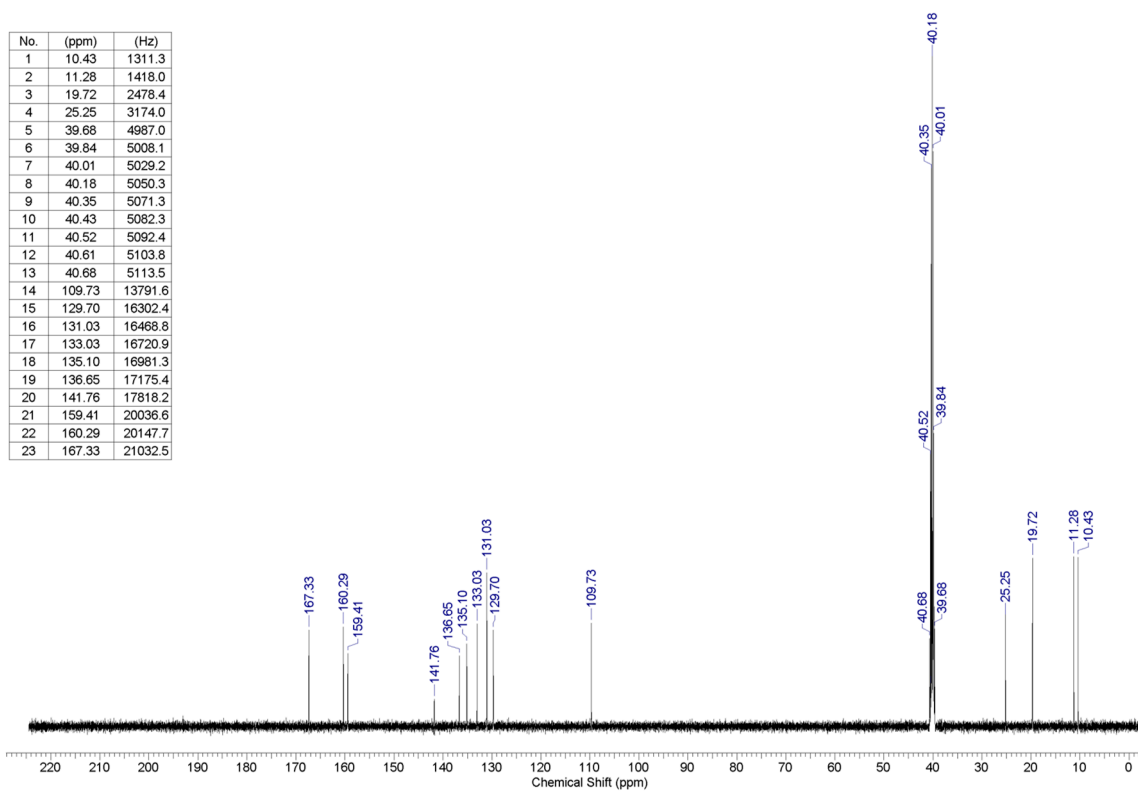
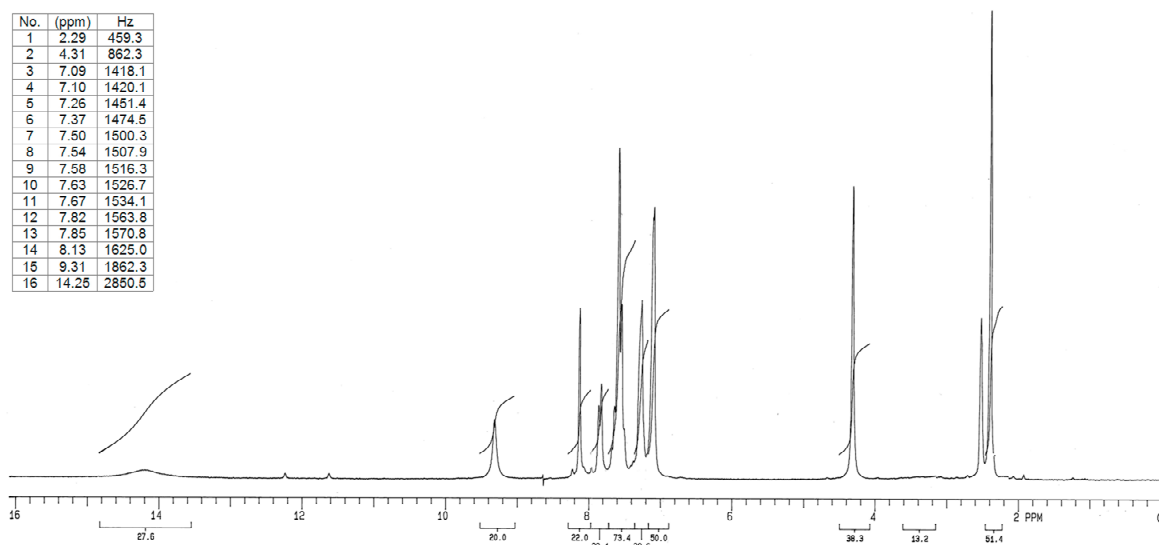
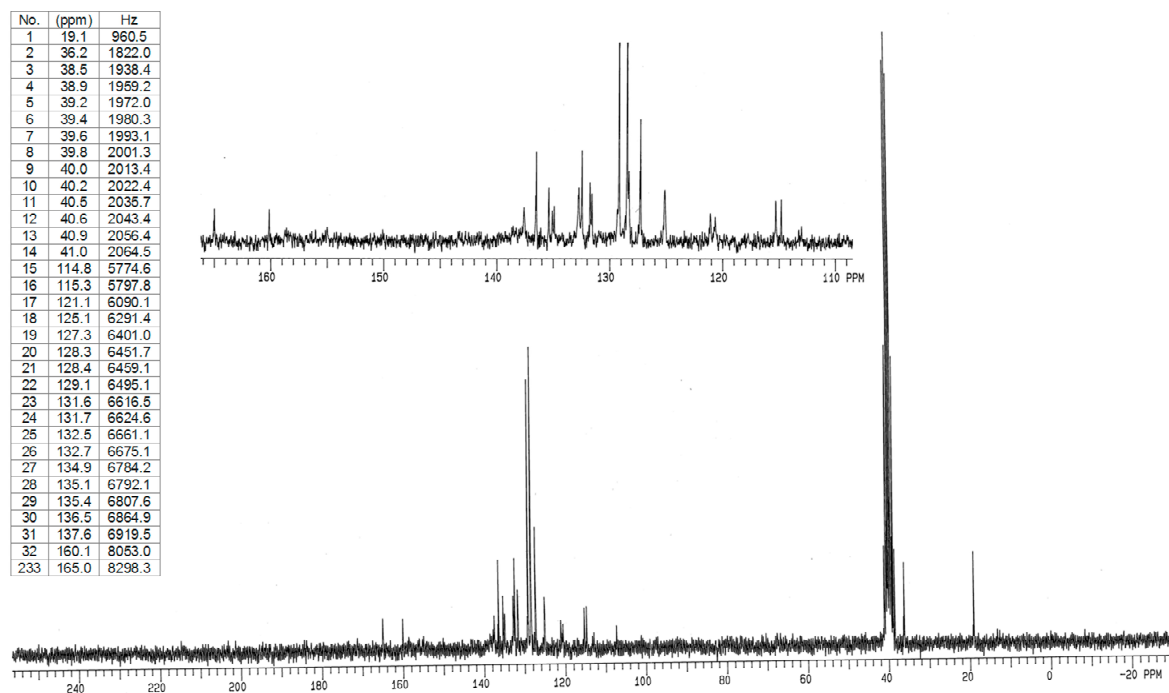
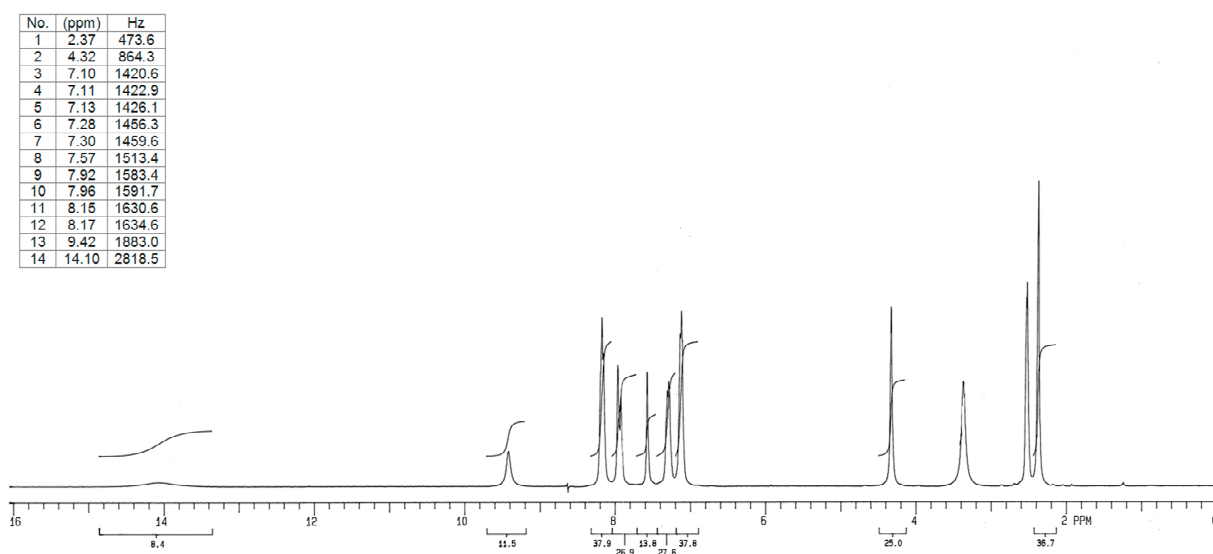
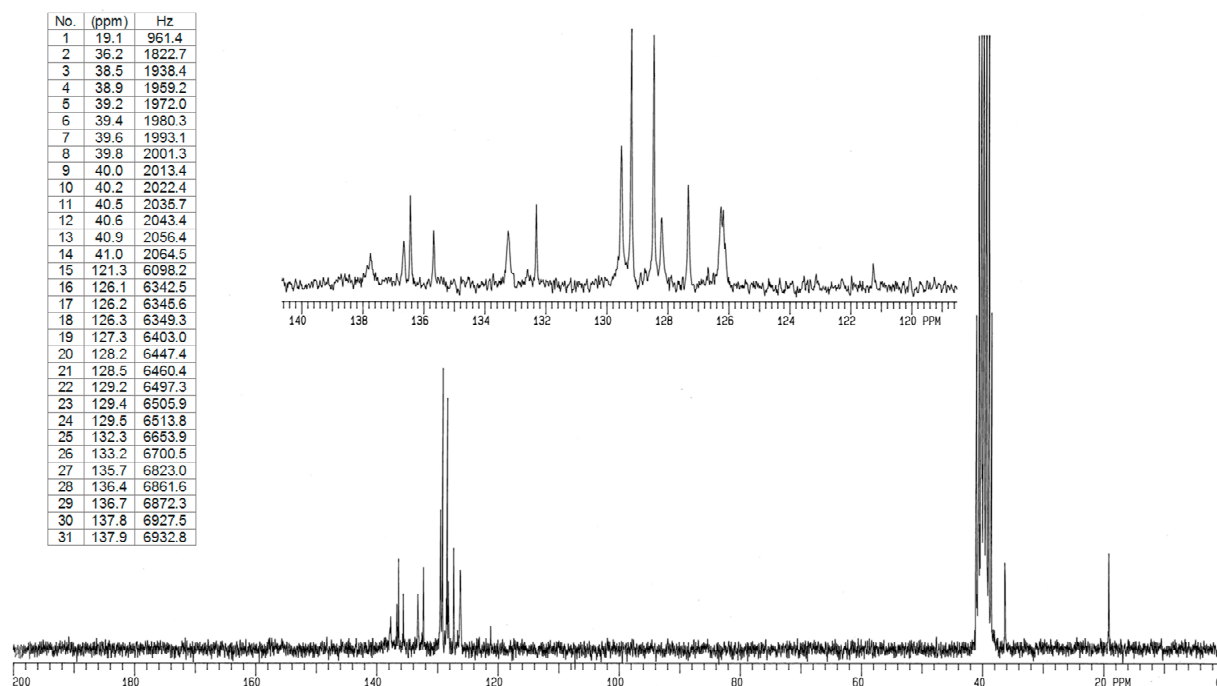
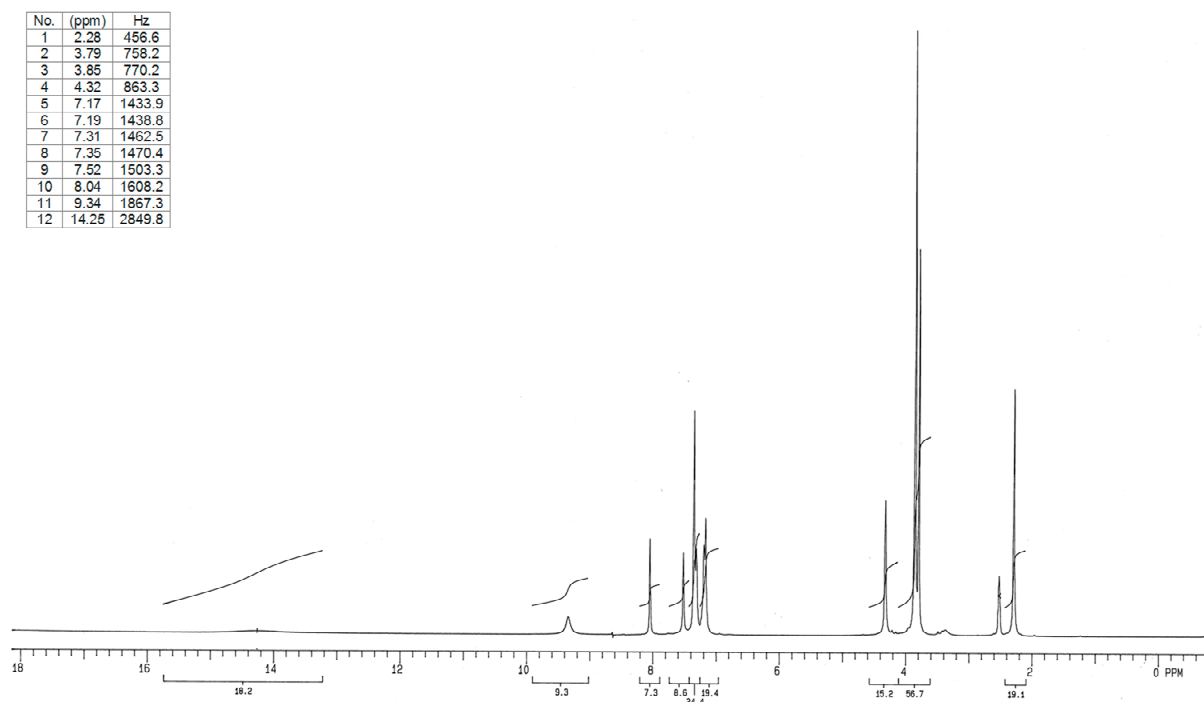
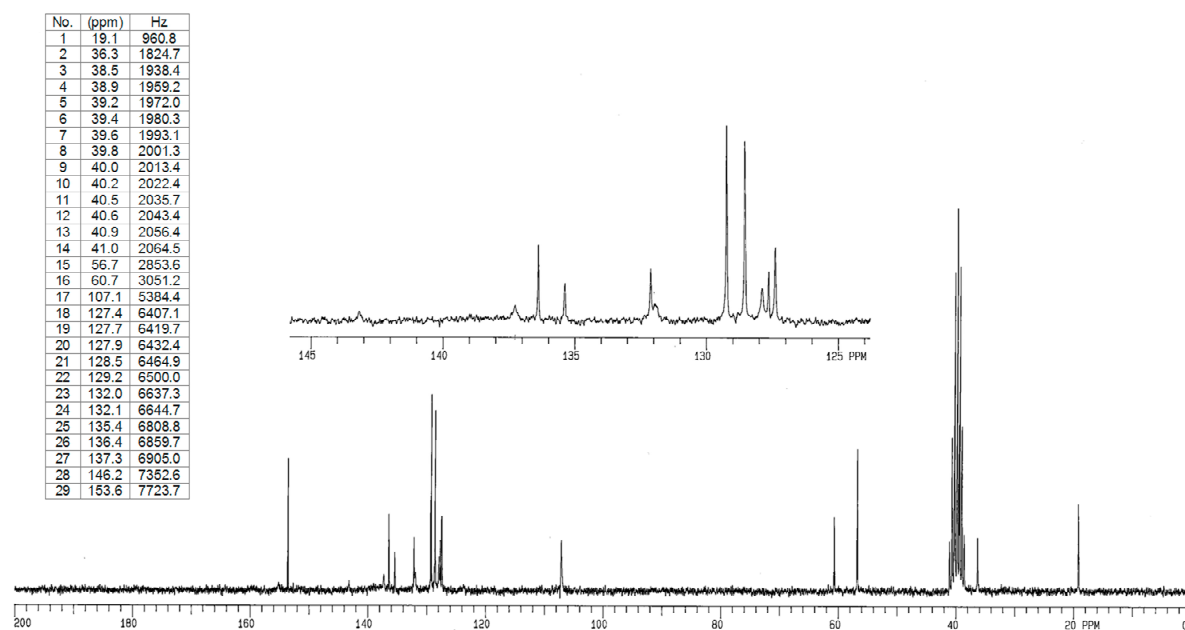
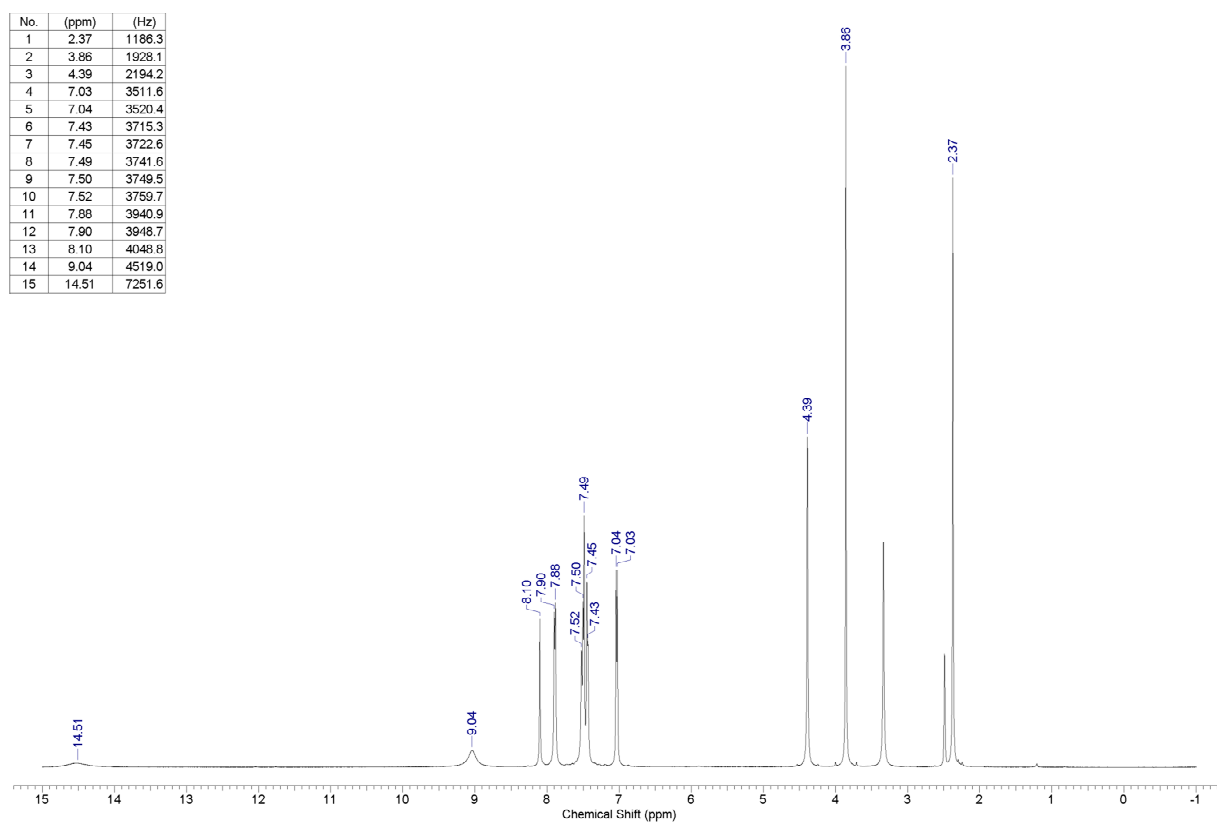


Figure S3. ^1H -NMR of compd 22 (500 MHz, $\text{DMSO-}d_6$).

Figure S4. ^{13}C -NMR of compd 22 (125 MHz, $\text{DMSO-}d_6$).Figure S5. ^1H -NMR of compd 27 (200 MHz, $\text{DMSO-}d_6$).

Figure S6. ^{13}C -NMR of compd 27 (50 MHz, $\text{DMSO-}d_6$).Figure S7. ^1H -NMR of compd 28 (200 MHz, $\text{DMSO-}d_6$).

Figure S8. ^{13}C -NMR of compd 28 (50 MHz, $\text{DMSO}-d_6$).Figure S9. ^1H -NMR of compd 32 (200 MHz, $\text{DMSO}-d_6$).

Figure S10. ^{13}C -NMR of compd 32 (50 MHz, $\text{DMSO-}d_6$).Figure S11. ^1H -NMR of compd 35 (500 MHz, $\text{DMSO-}d_6$).

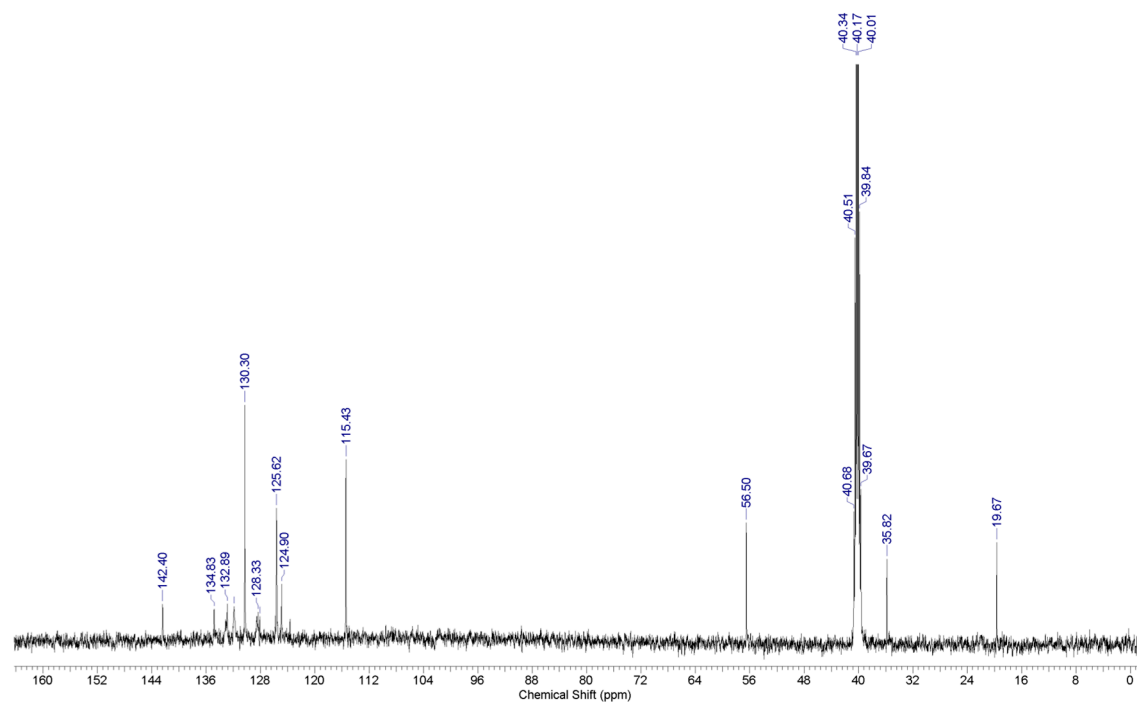


Figure S12. ^{13}C -NMR of compd 35 (125 MHz, $\text{DMSO-}d_6$).

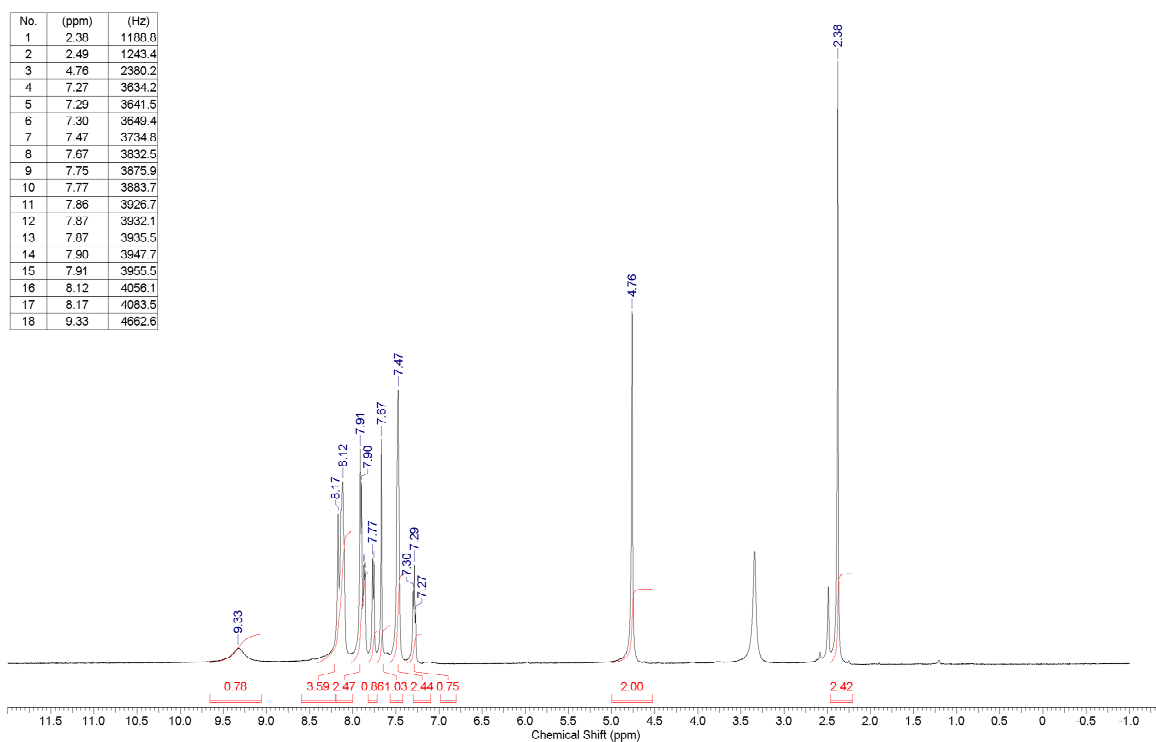
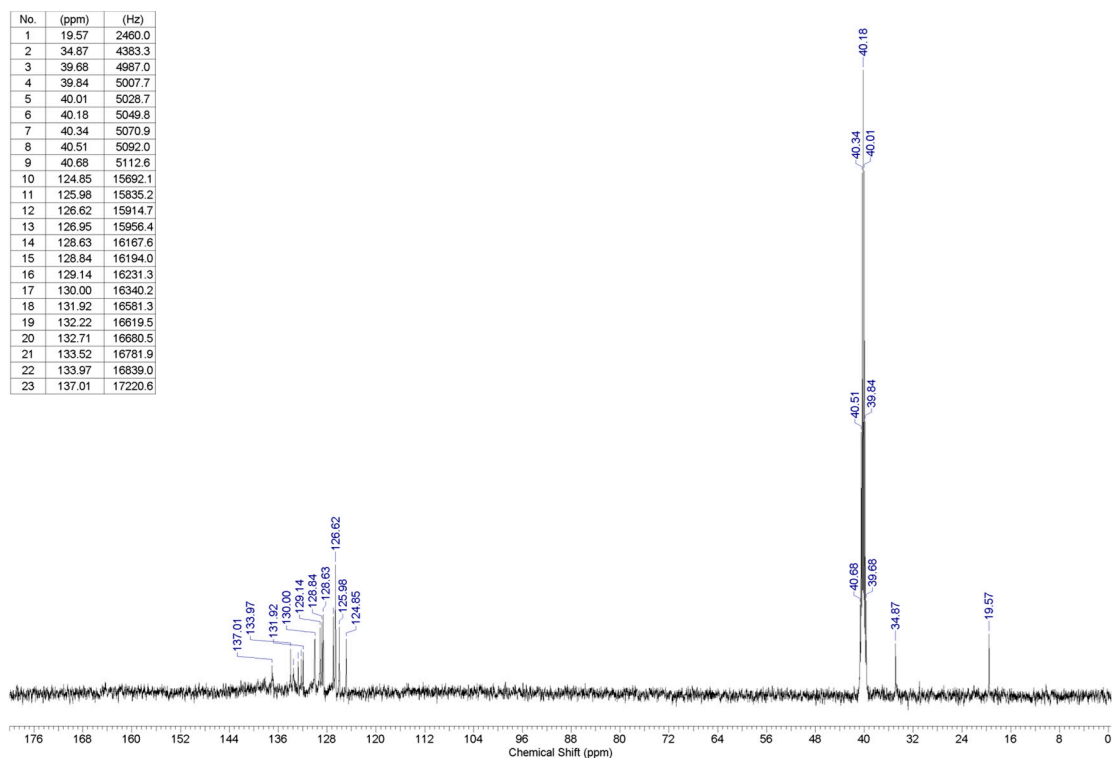
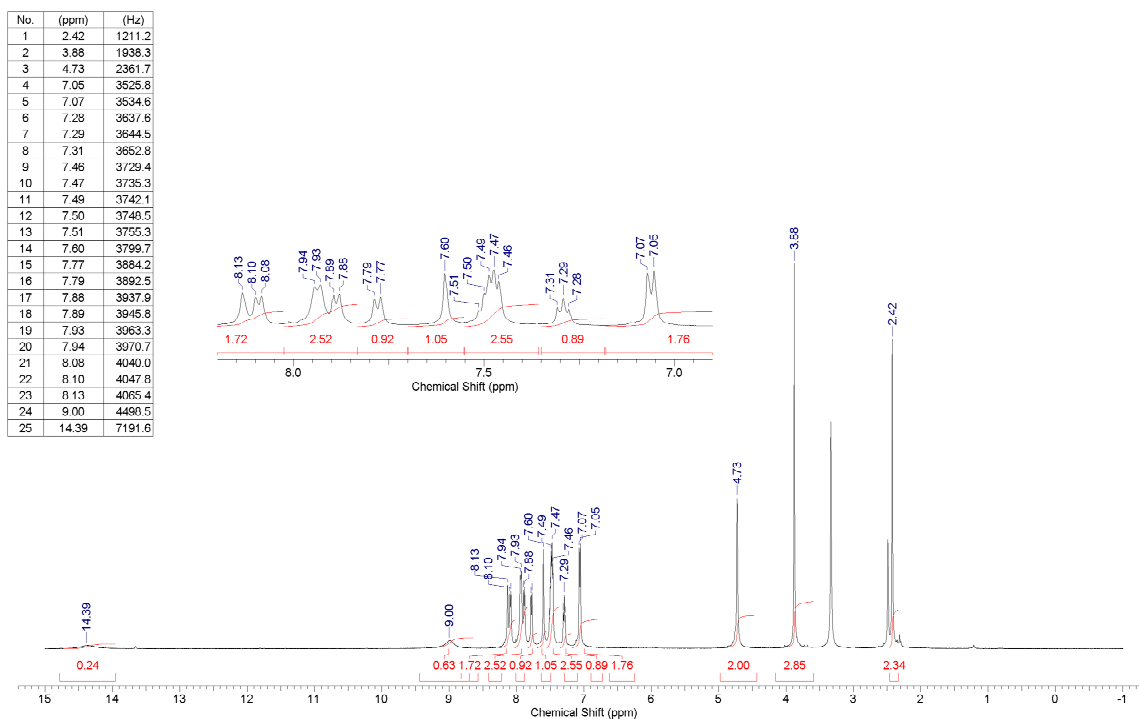


Figure S13. ^1H -NMR of compd 37 (500 MHz, $\text{DMSO-}d_6$).

Figure S14. ^{13}C -NMR of compd 37 (125 MHz, $\text{DMSO-}d_6$).Figure S15. ^1H -NMR of compd 38 (500 MHz, $\text{DMSO-}d_6$).

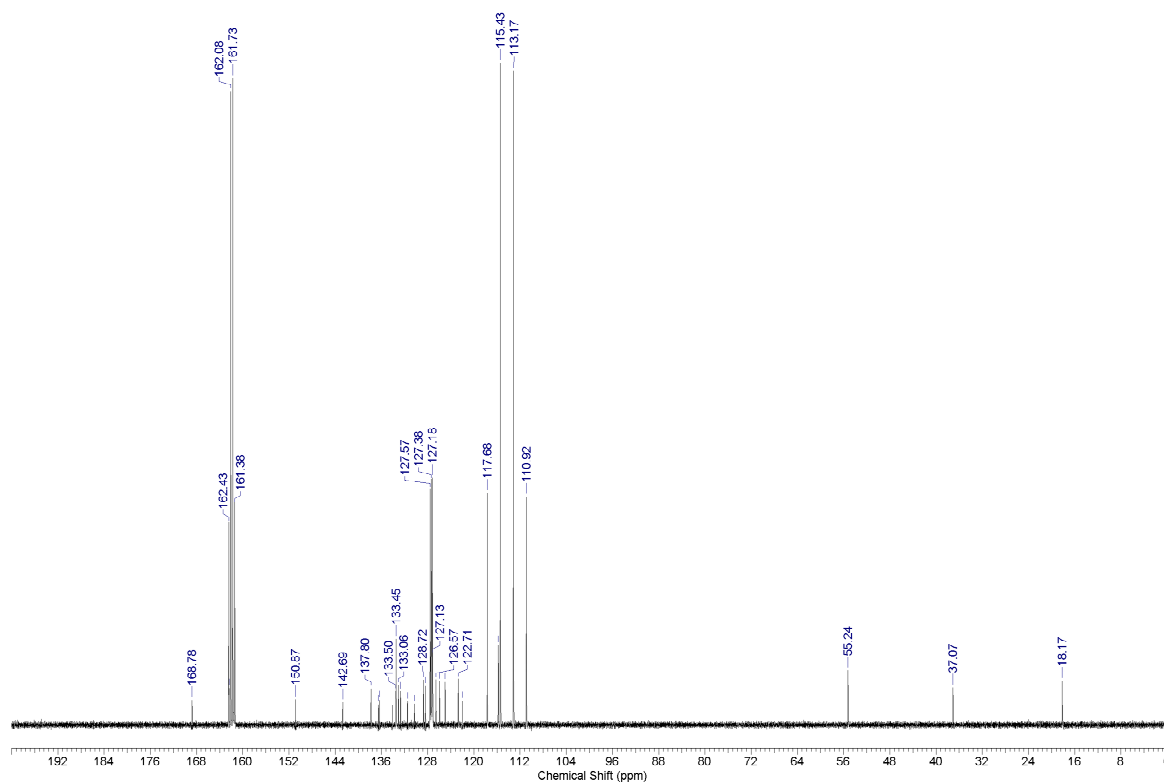


Figure S16. ^{13}C -NMR of compd 38 (125 MHz, TFA).

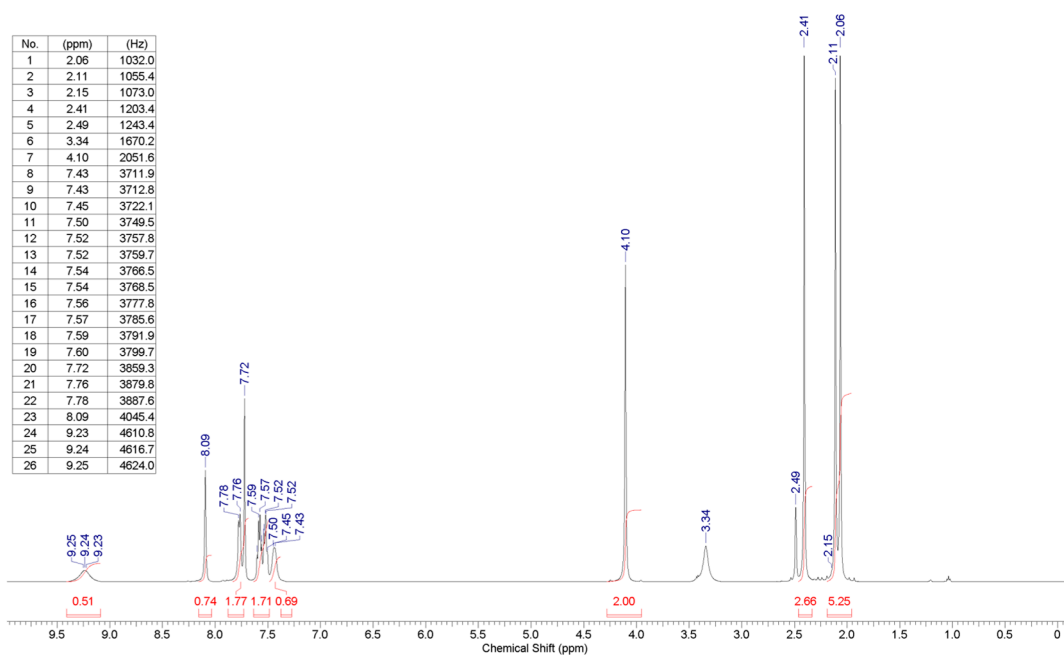


Figure S17. ^1H -NMR of compd 39 (500 MHz, $\text{DMSO}-d_6$).

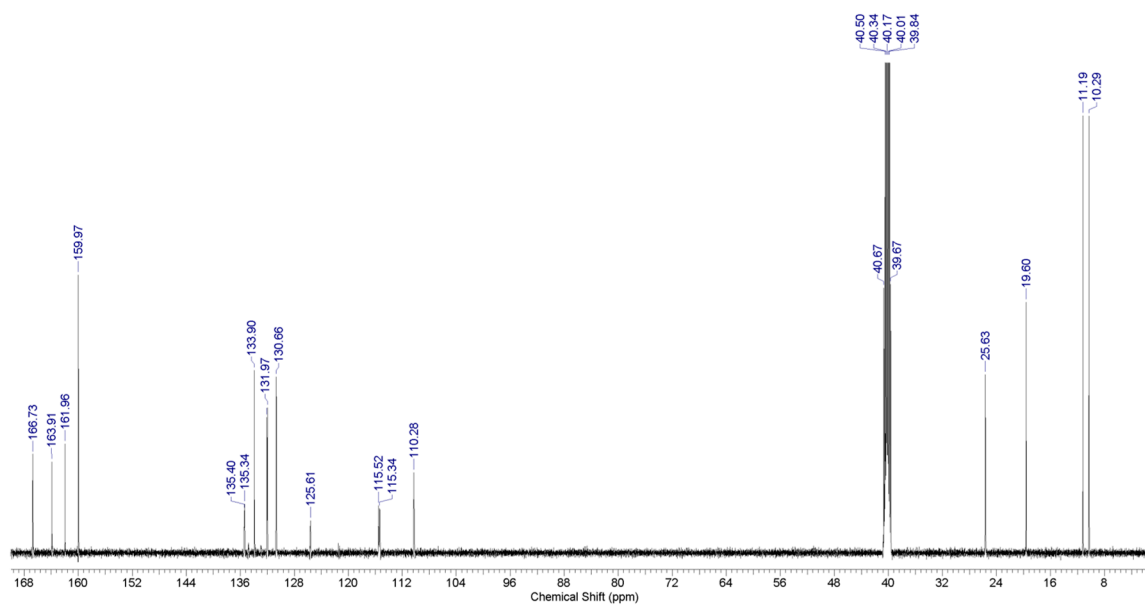


Figure S18. ^{13}C -NMR of compd **39** (125 MHz, $\text{DMSO-}d_6$).

No.	(ppm)	(Hz)
1	2.08	1040.3
2	2.14	1072.0
3	2.39	1196.6
4	4.11	2054.0
5	7.66	3831.0
6	7.89	3944.8
7	7.91	3953.1
8	8.10	4049.8
9	8.12	4056.6
10	8.15	4075.6
11	9.36	4676.8

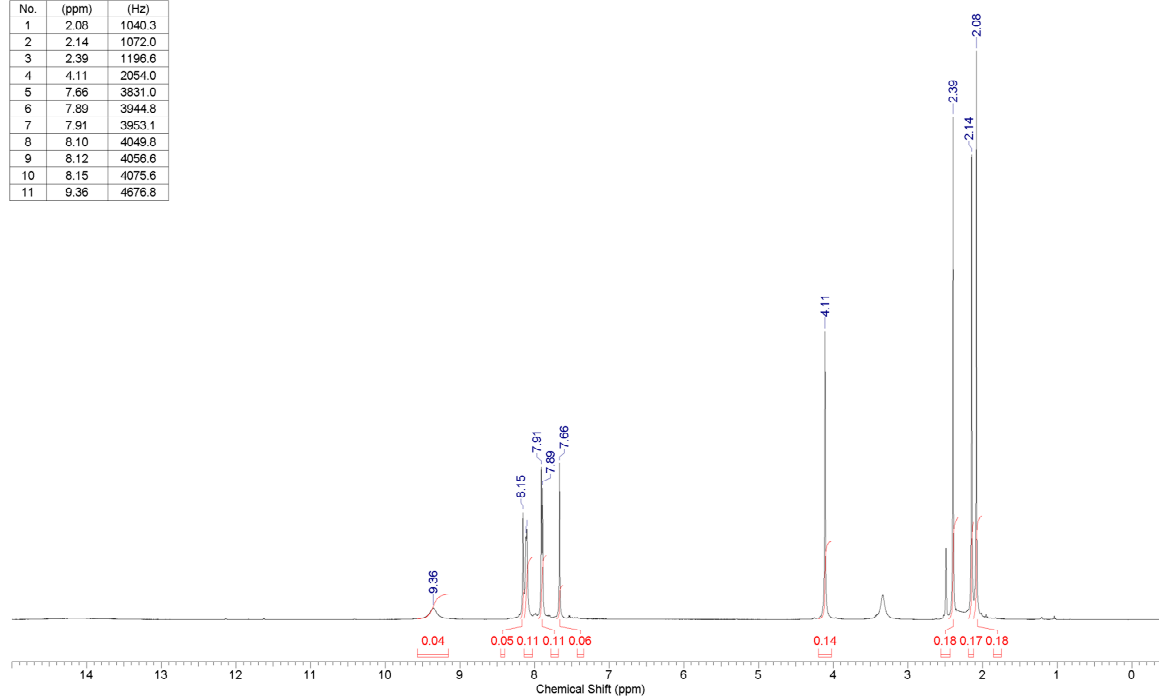


Figure S19. ^1H -NMR of compd **40** (500 MHz, $\text{DMSO-}d_6$).

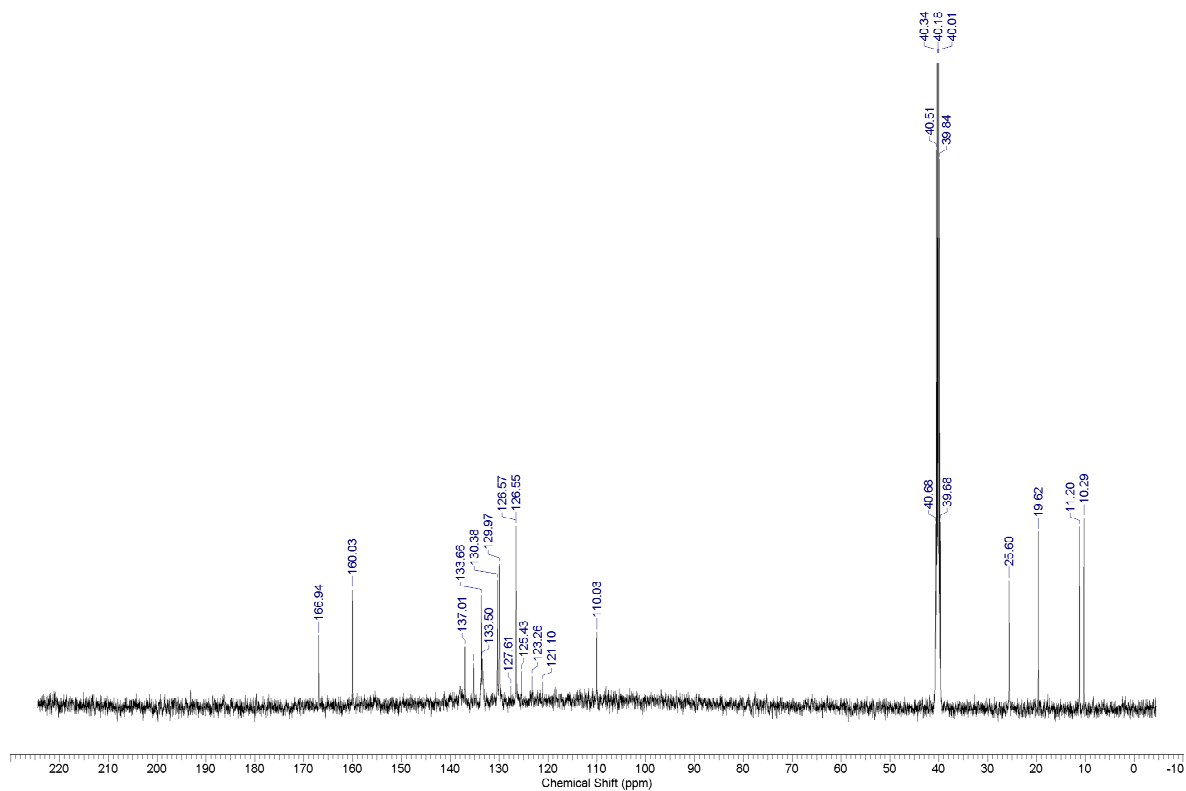


Figure S20. ^{13}C -NMR of compd 40 (125 MHz, $\text{DMSO-}d_6$).

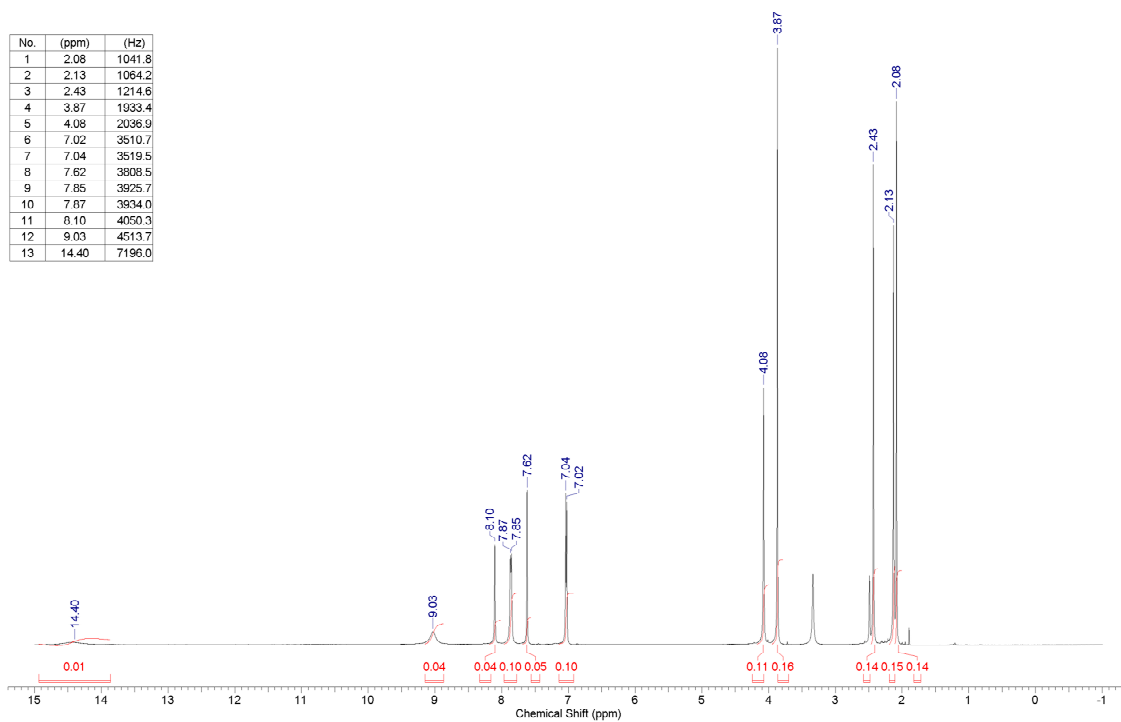


Figure S21. ^1H -NMR of compd 41 (500 MHz, $\text{DMSO-}d_6$).

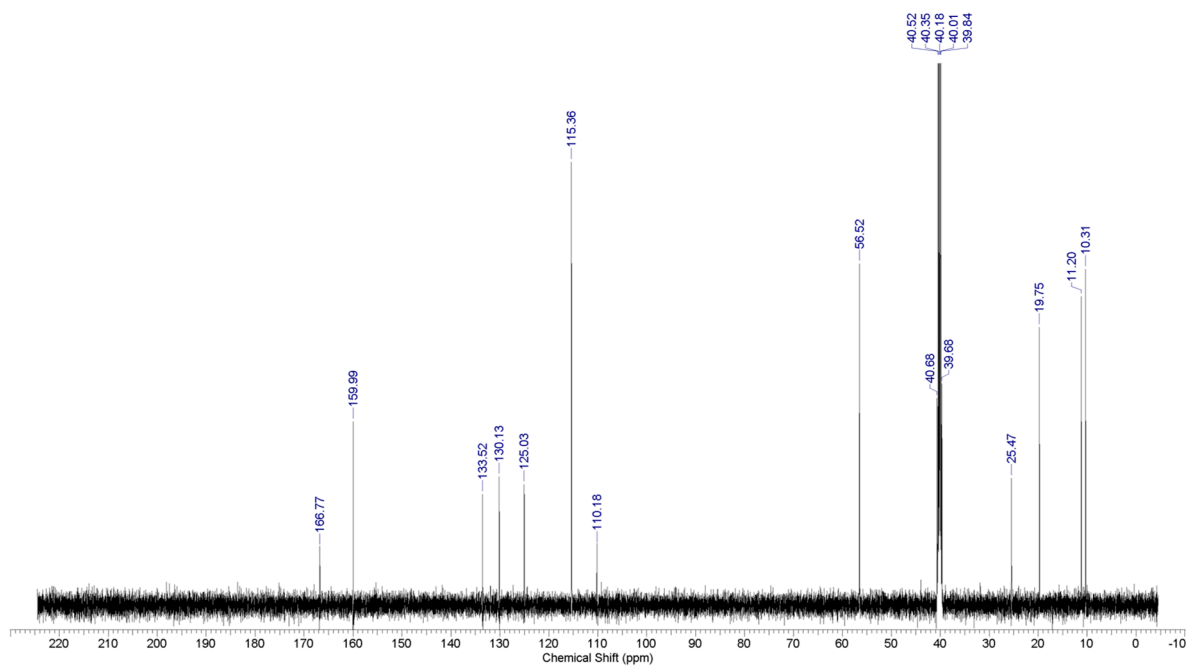


Figure S22. ^{13}C -NMR of compd 41 (125 MHz, $\text{DMSO-}d_6$).

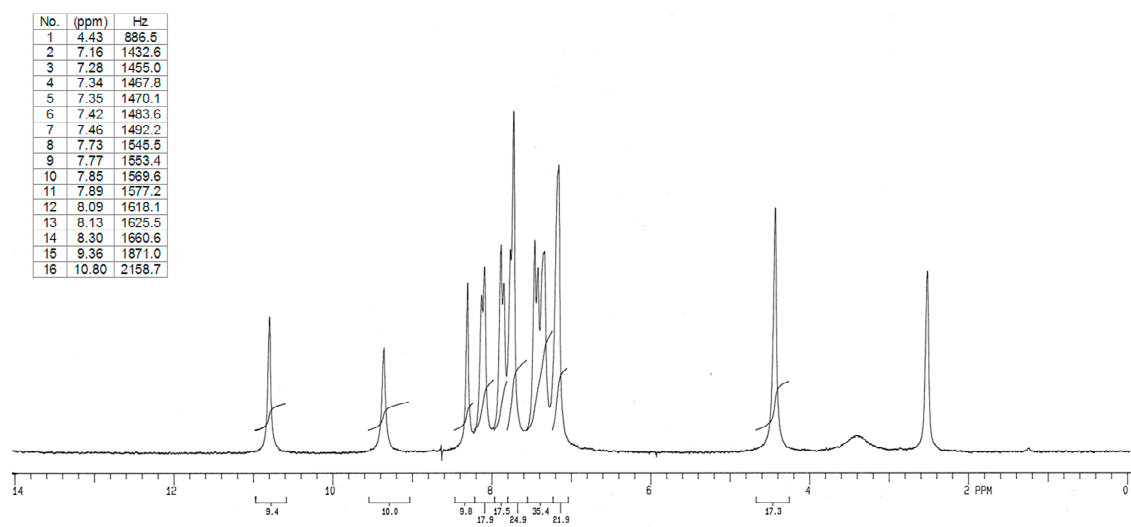
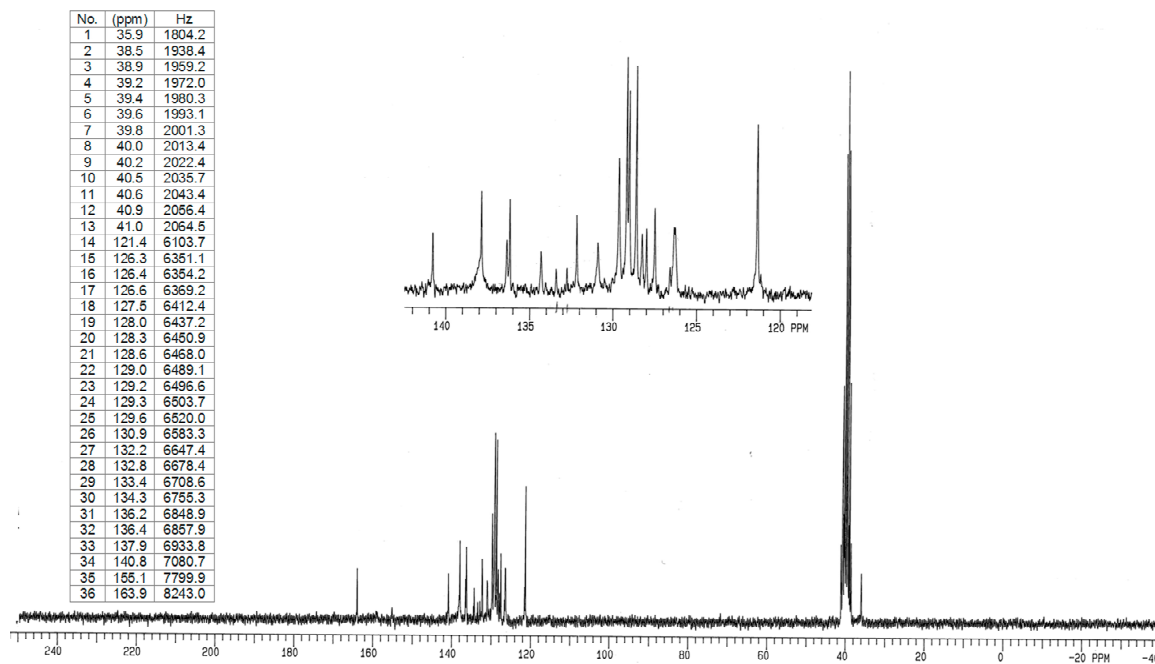
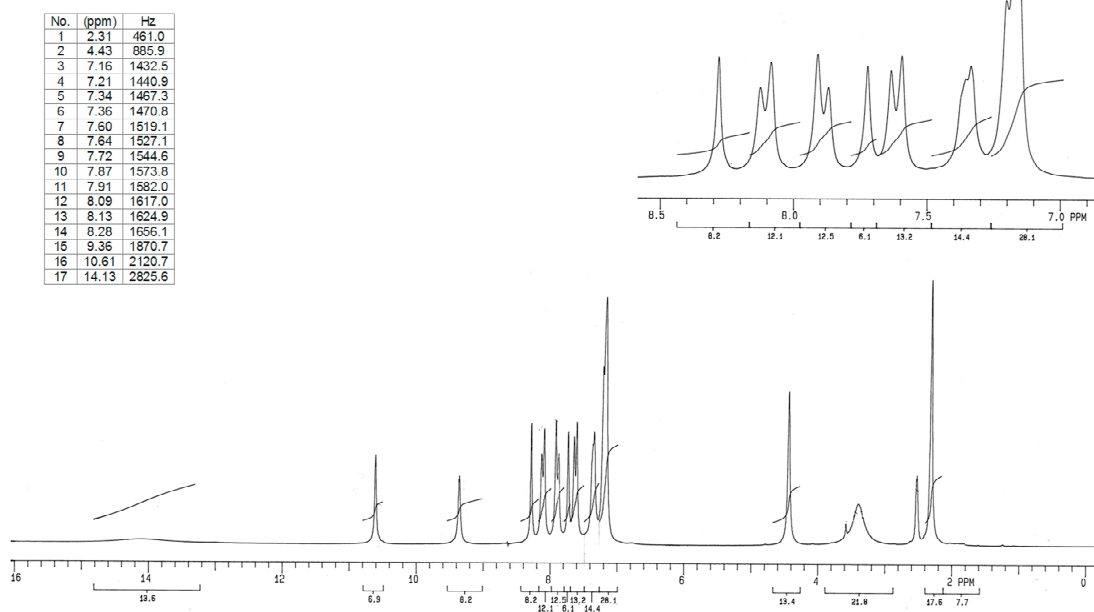
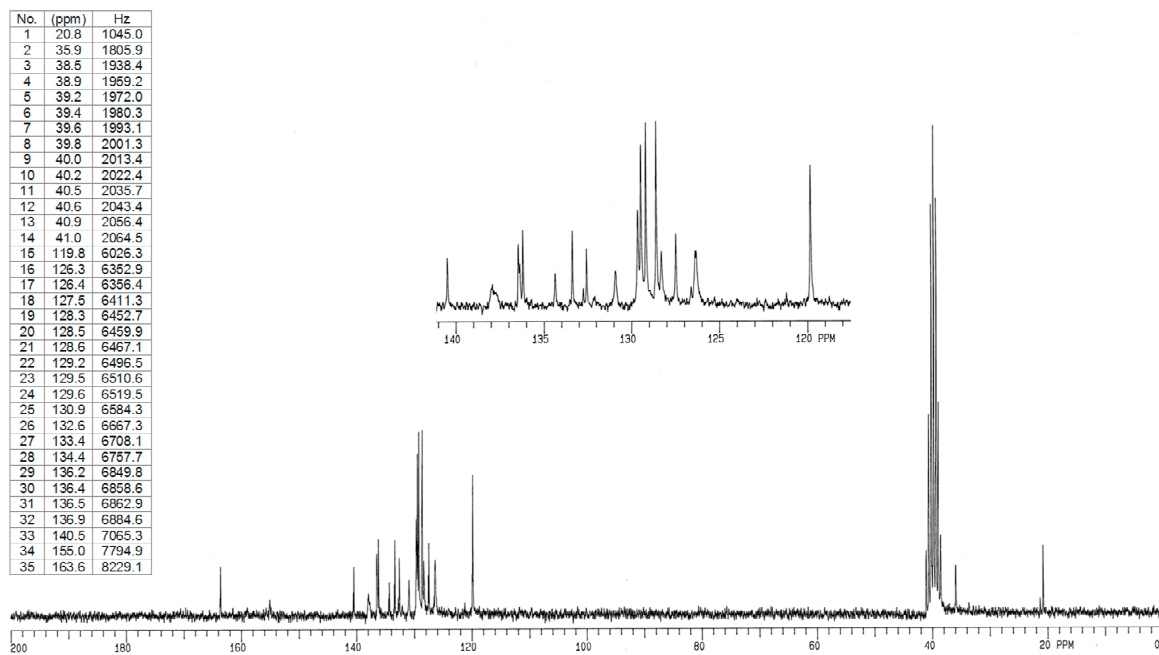
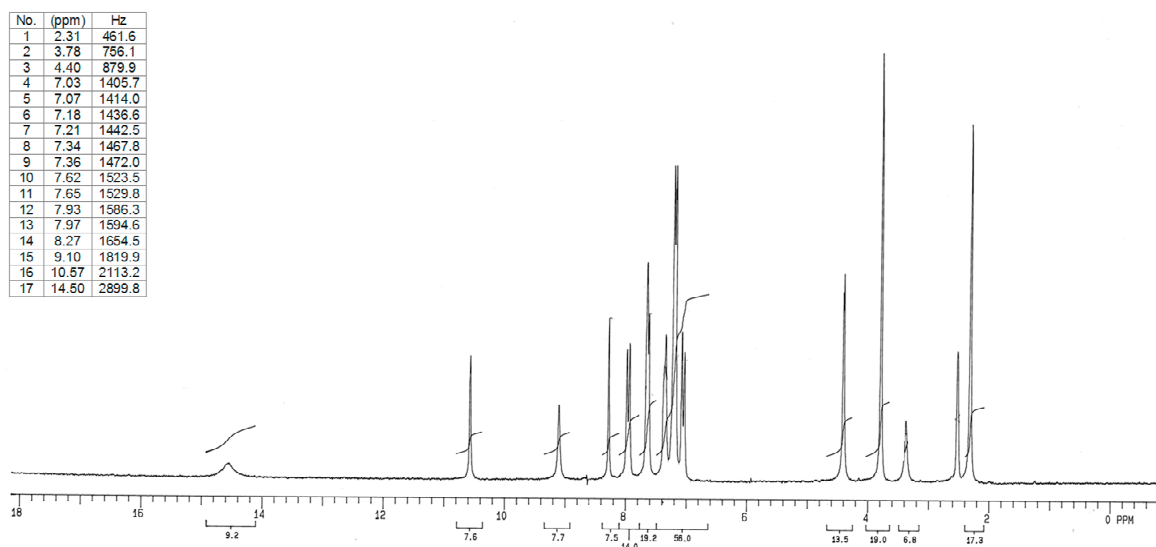


Figure S23. ^1H -NMR of compd 46 (200 MHz, $\text{DMSO-}d_6$).

Figure S24. ^{13}C -NMR of compd 46 (50 MHz, $\text{DMSO-}d_6$).Figure S25. ^1H -NMR of compd 52 (200 MHz, $\text{DMSO-}d_6$).

Figure S26. ^{13}C -NMR of compd 52 (50 MHz, $\text{DMSO-}d_6$).Figure S27. ^1H -NMR of compd 53 (200 MHz, $\text{DMSO-}d_6$).

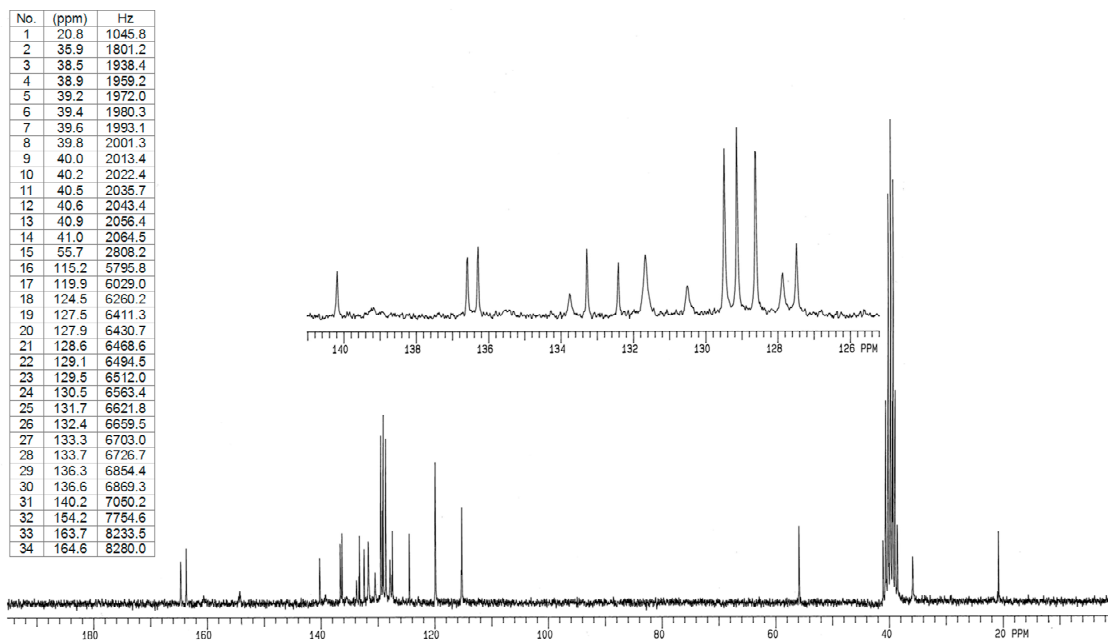


Figure S28. ^{13}C -NMR of compd 53 (50 MHz, $\text{DMSO-}d_6$).

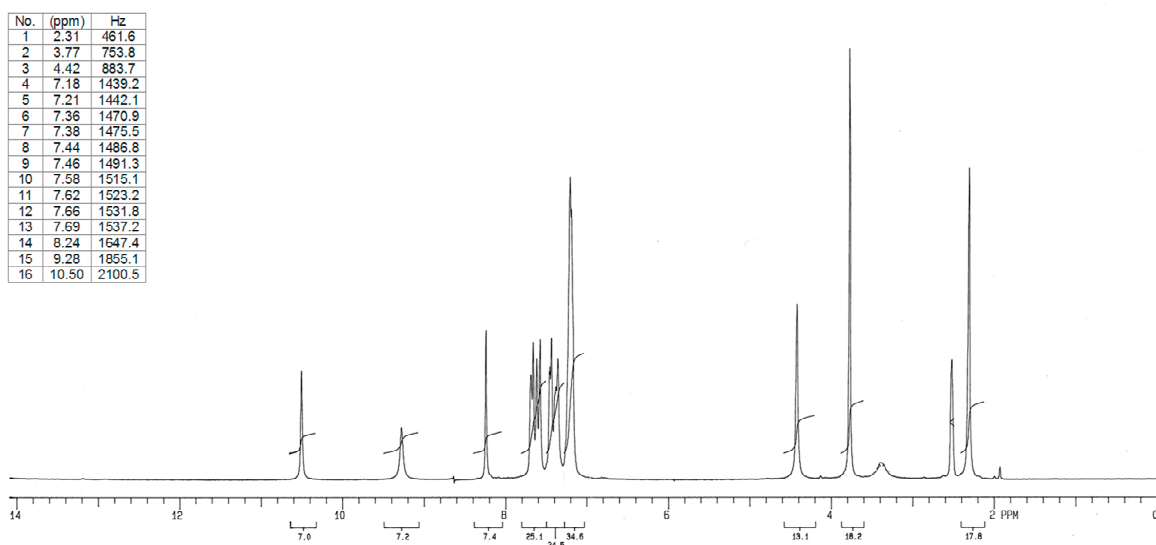
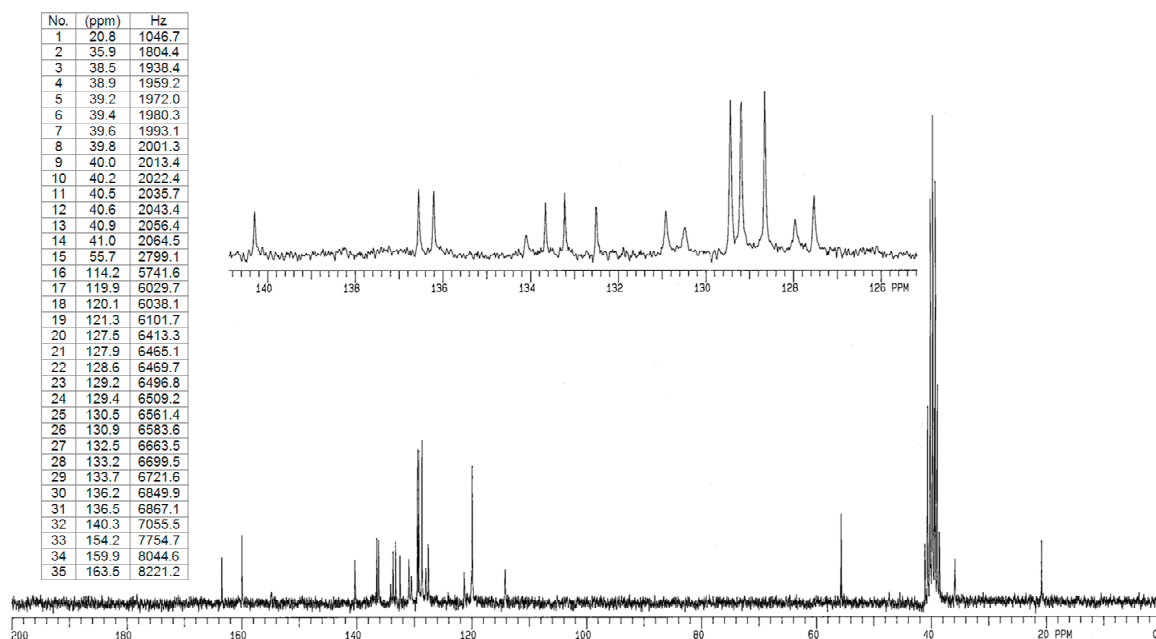
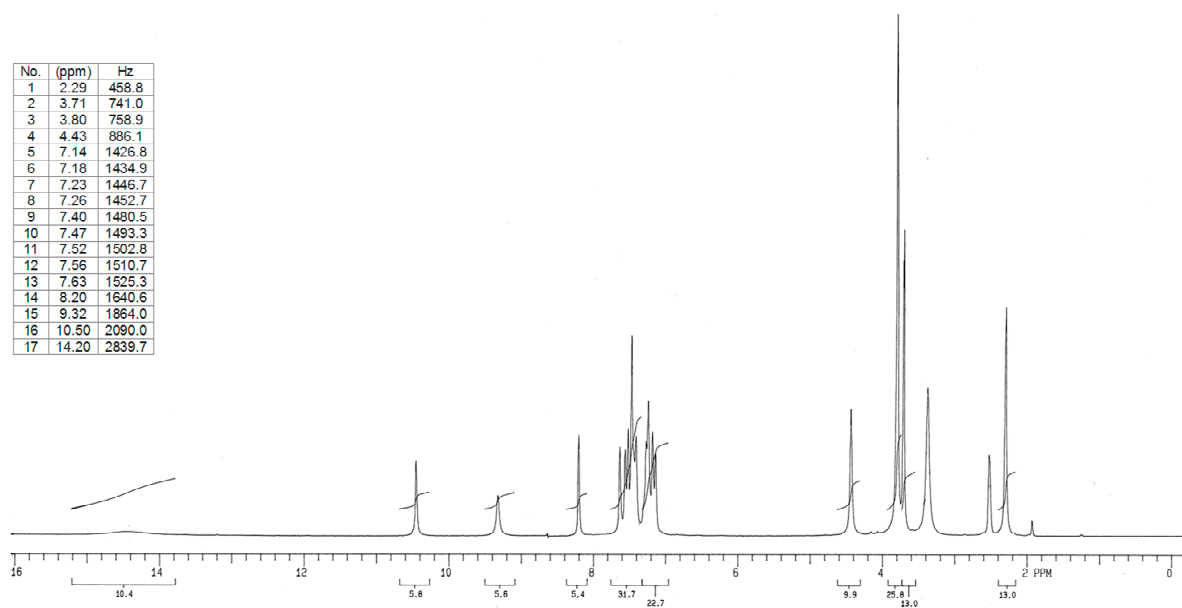
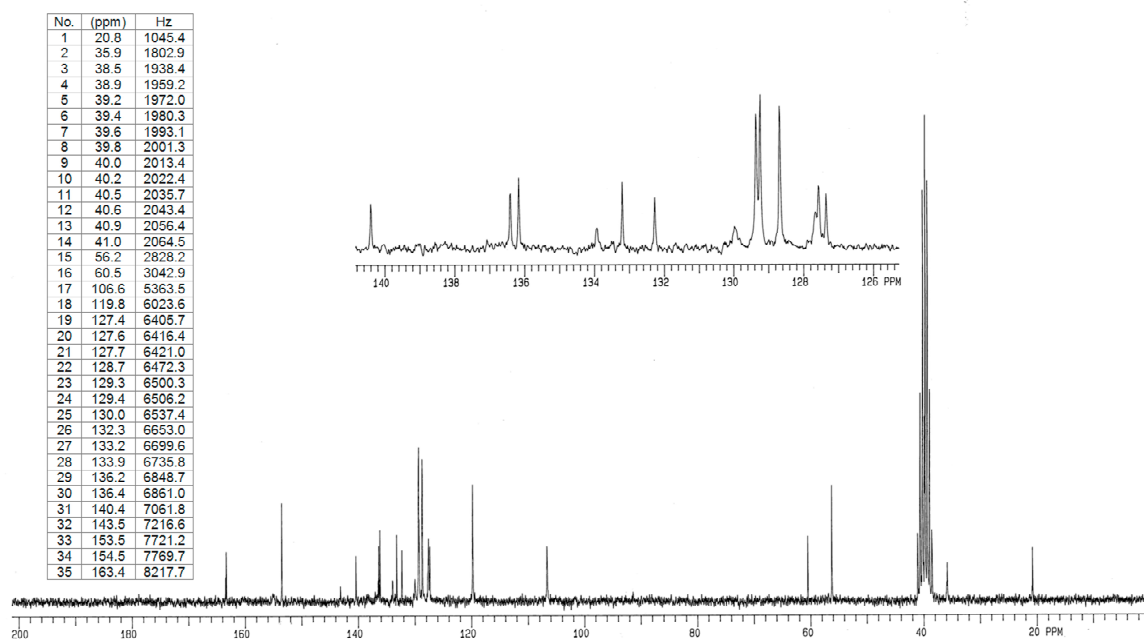
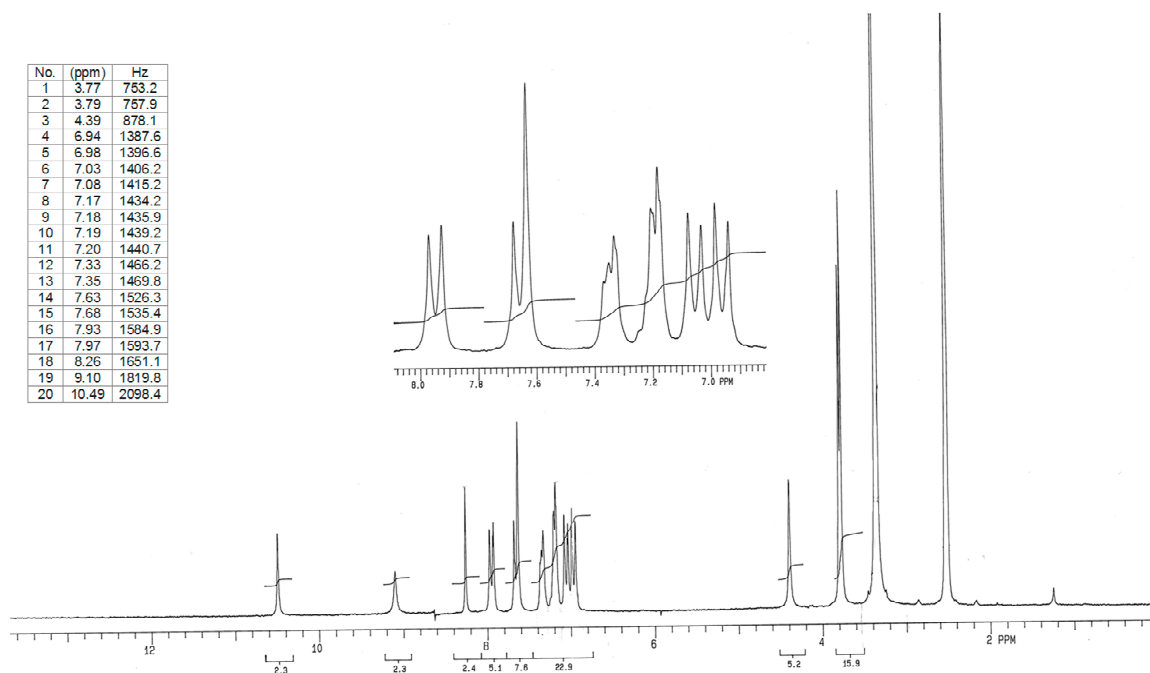
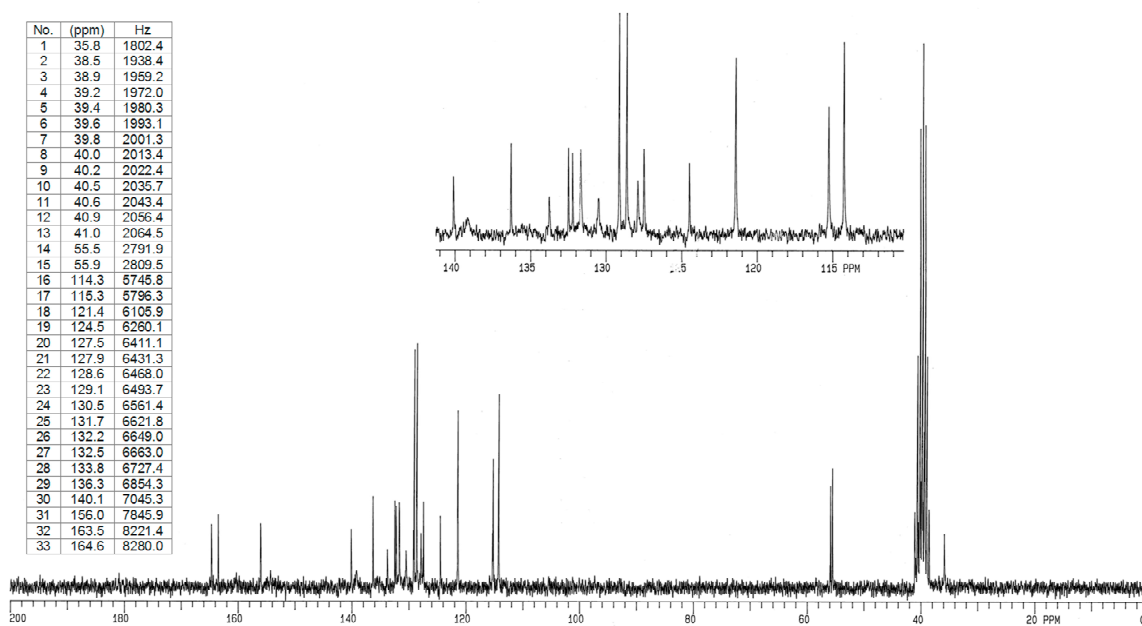
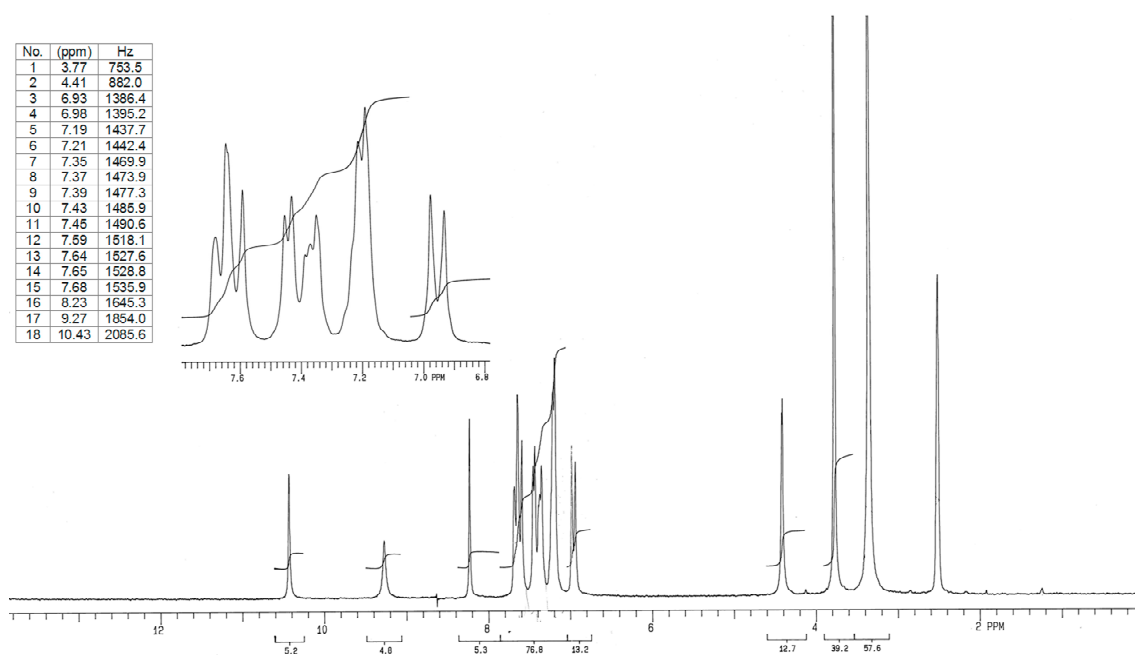


Figure S29. ^1H -NMR of compd 54 (200 MHz, $\text{DMSO-}d_6$).

Figure S30. ^{13}C -NMR of compd 54 (50 MHz, $\text{DMSO-}d_6$).Figure S31. ^1H -NMR of compd 56 (200 MHz, $\text{DMSO-}d_6$).

Figure S32. ^{13}C -NMR of compd 56 (50 MHz, $\text{DMSO-}d_6$).Figure S33. ^1H -NMR of compd 57 (200 MHz, $\text{DMSO-}d_6$).

Figure S34. ^{13}C -NMR of compd 57 (50 MHz, $\text{DMSO-}d_6$).Figure S35. ^1H -NMR of compd 58 (200 MHz, $\text{DMSO-}d_6$).

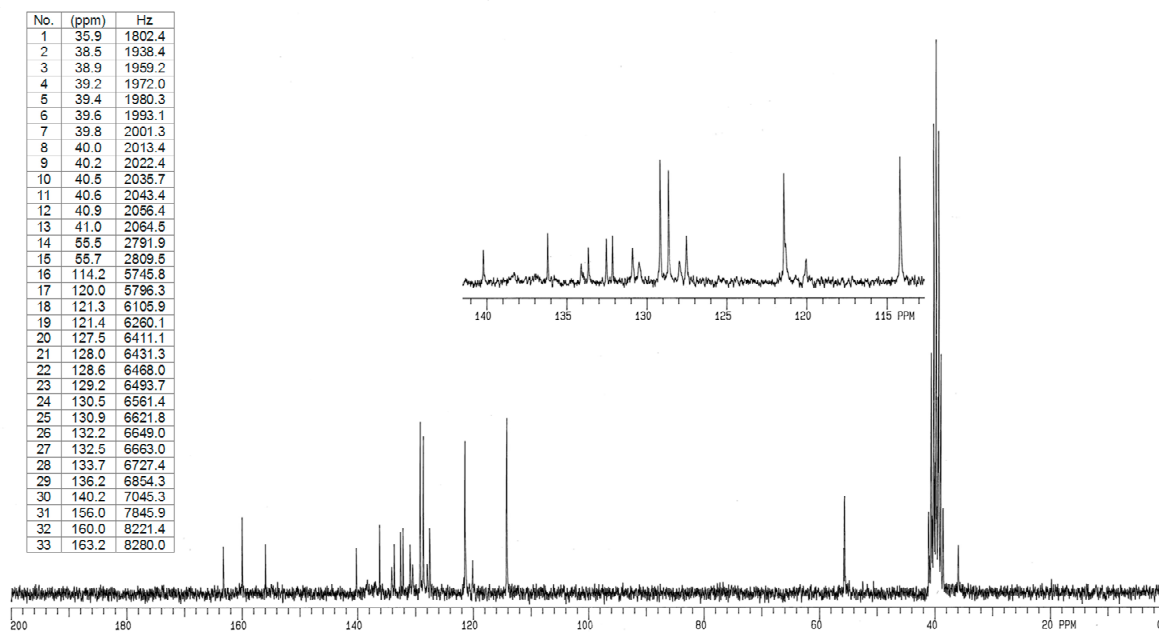


Figure S36. ^{13}C -NMR of compd 58 (50 MHz, $\text{DMSO-}d_6$).

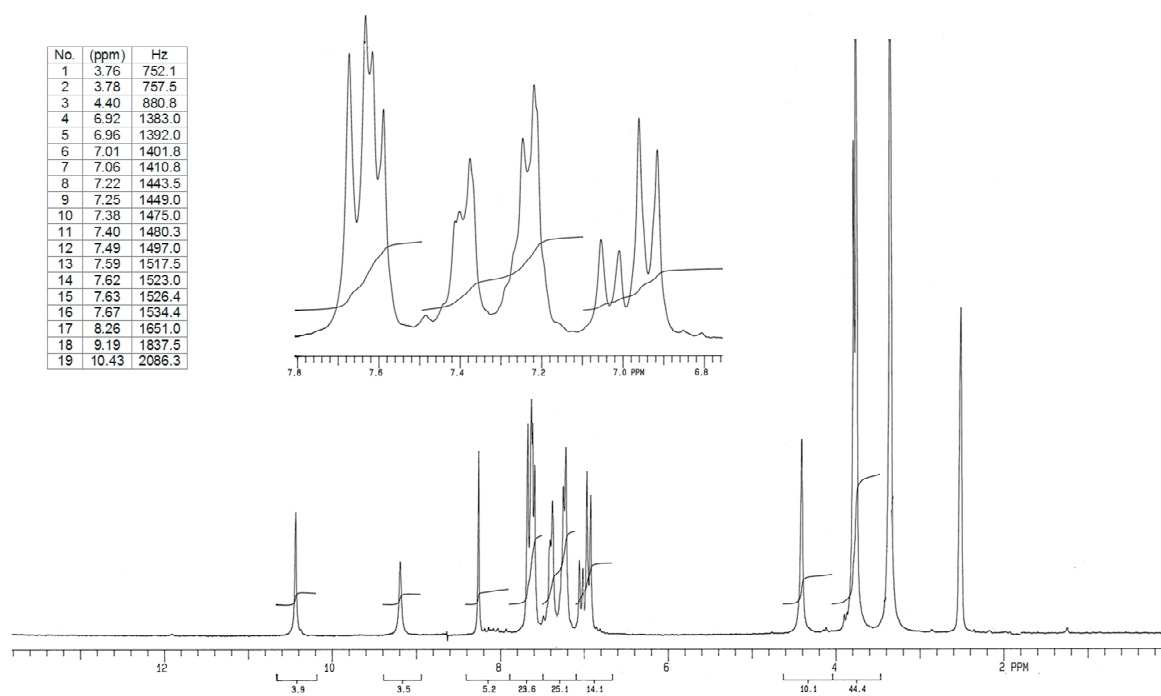


Figure S37. ^1H -NMR of compd 59 (200 MHz, $\text{DMSO-}d_6$).

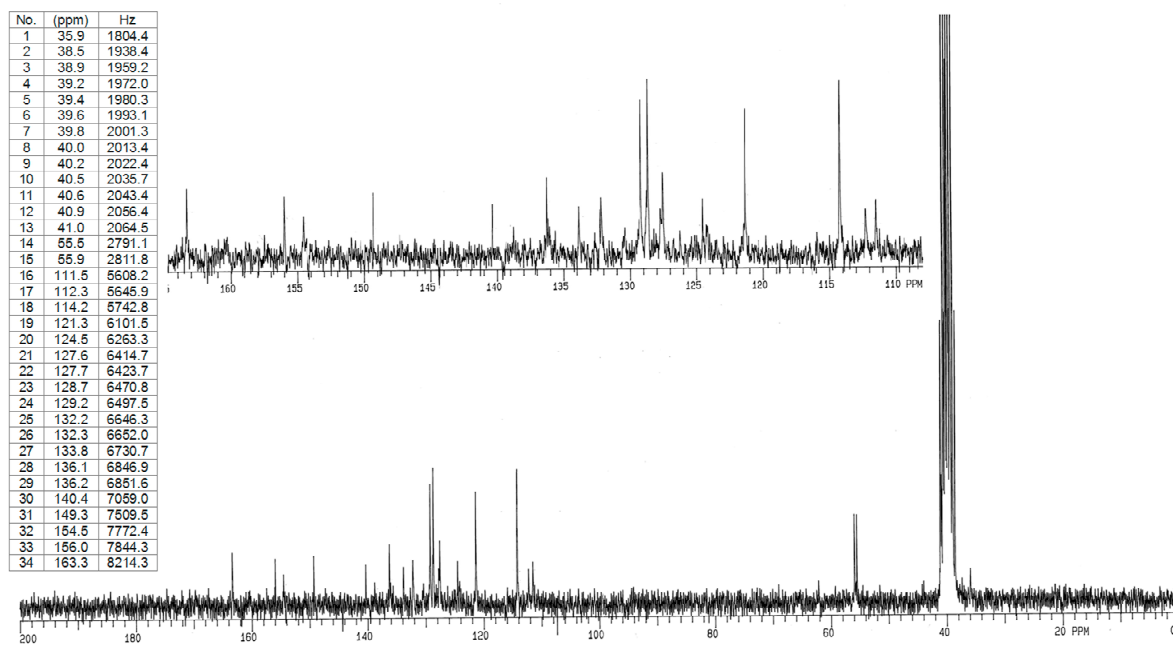


Figure S38. ^{13}C -NMR of compd 59 (50 MHz, $\text{DMSO-}d_6$).