

Electronic Supplementary Information (ESI)

Survey, fluorescence spectra, and solubility of liquid cyanine dyes

Masaki Matsui,* Takaya Yamamoto, Yasuhiro Kubota and Kazumasa Funabiki

Department of Chemistry and Biomolecular Science,
Faculty of Engineering, Gifu University,
Yanagido, Gifu 501-1193, Japan

Figure S1. ^1H NMR for 23 .	3
Figure S2. ^1H NMR for 39 .	3
Figure S3. ^1H NMR for 40 .	4
Figure S4. ^1H NMR for 41 .	4
Figure S5. ^1H NMR for 42 .	5
Figure S6. ^1H NMR for 43 .	5
Figure S7. ^1H NMR for 44 .	6
Figure S8. ^1H NMR for 45 .	6
Figure S9. ^1H NMR for 46 .	7
Figure S10. ^1H NMR for 47 .	7
Figure S11. ^1H NMR for 48 .	8
Figure S12. ^1H NMR for 49 .	8
Figure S13. ^1H NMR for 50 .	9
Figure S14. ^1H NMR for 51 .	9
Figure S15. ^1H NMR for 52 .	10
Figure S16. ^1H NMR for 53 .	10
Figure S17. ^1H NMR for 57 .	11
Figure S18. TG/DTA for 23 .	12
Figure S19. DSC for 39 .	12
Figure S20. DSC for 40 .	12
Figure S21. DSC for 41 .	12

Figure S22. DSC for 42 .	12
Figure S23. DSC for 43 .	12
Figure S24. DSC for 46 .	12
Figure S25. DSC for 47 .	12
Figure S26. DSC for 48 .	13
Figure S27. DSC for 49 .	13
Figure S28. DSC for 52 .	13
Figure S29. DSC for 53 .	13
Figure S30. DSC for 57 .	13

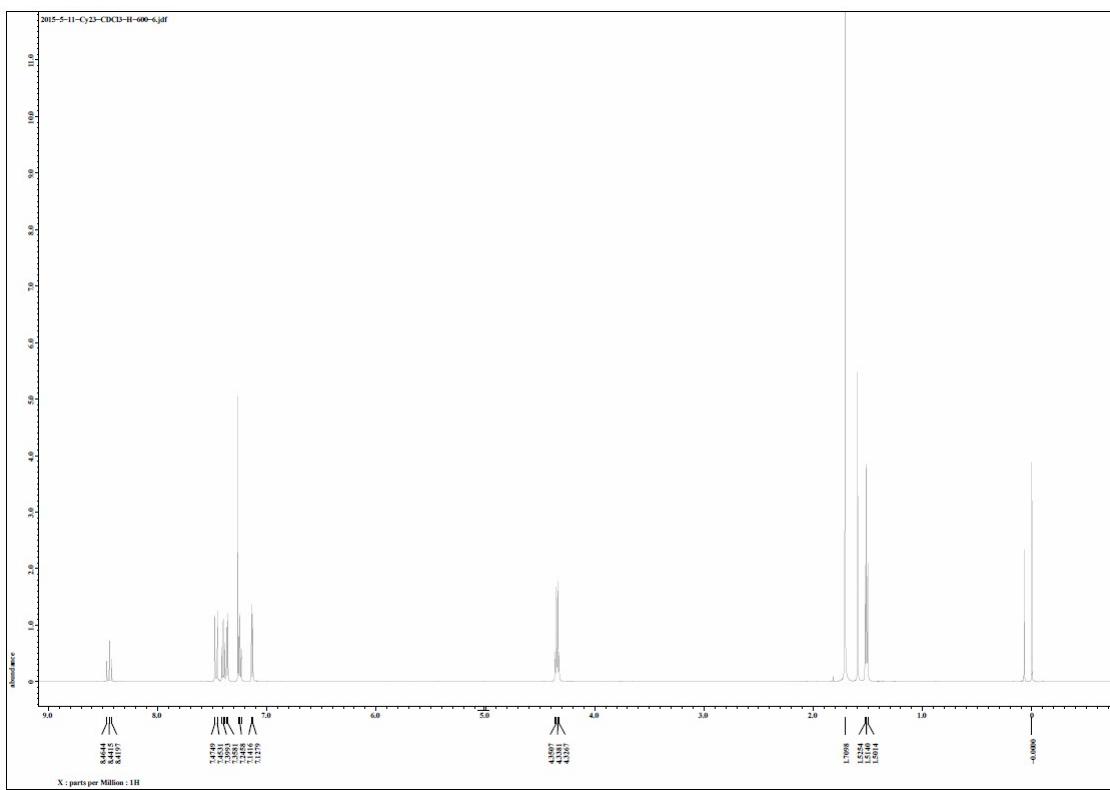


Figure S1. ^1H NMR for **23**.

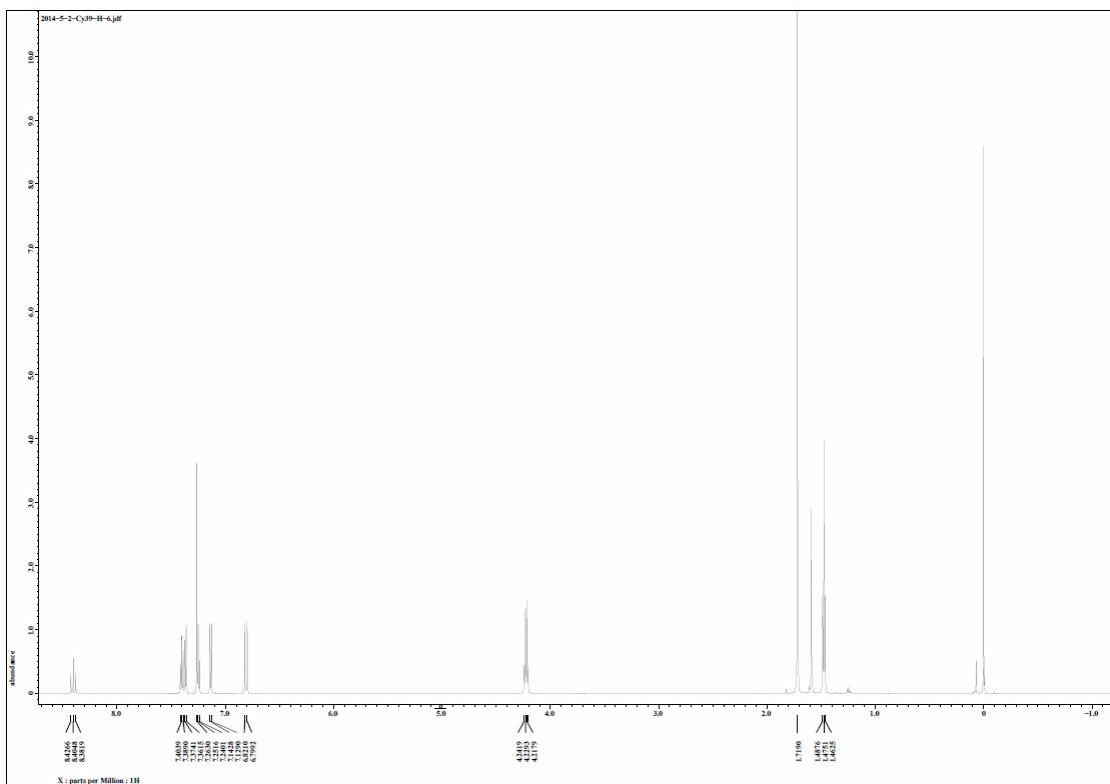


Figure S2. ^1H NMR for **39**.

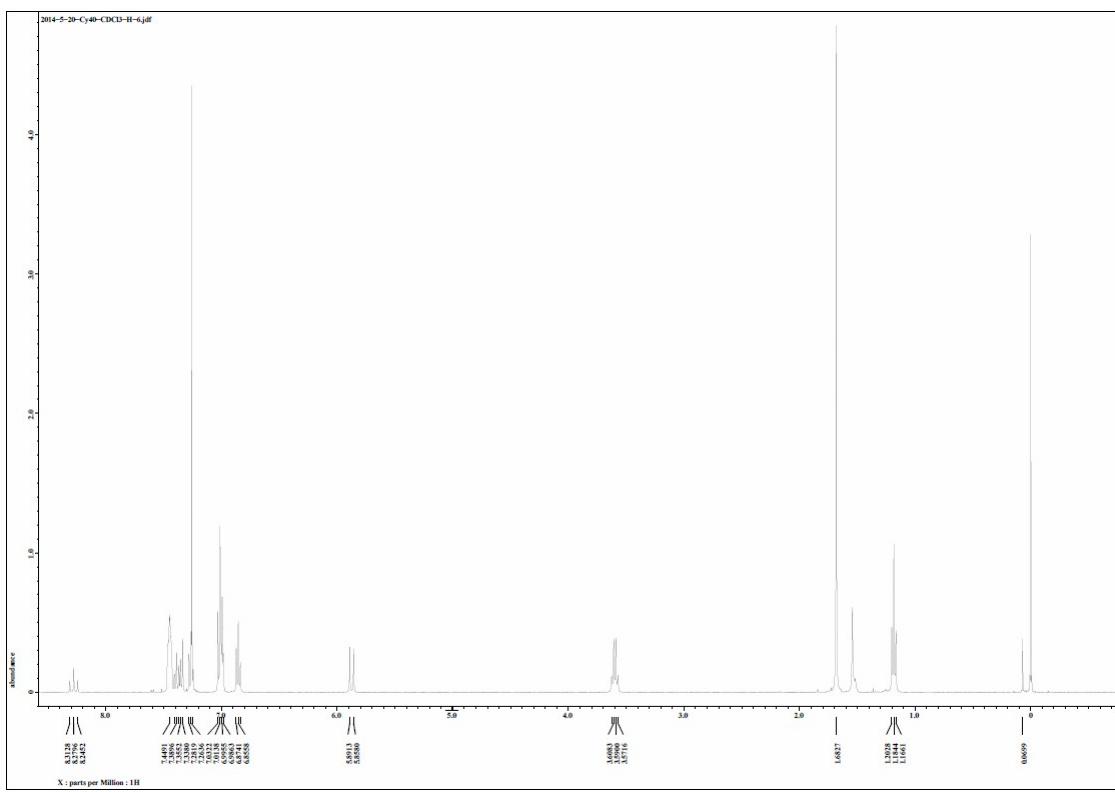


Figure S3. ^1H NMR for 40.

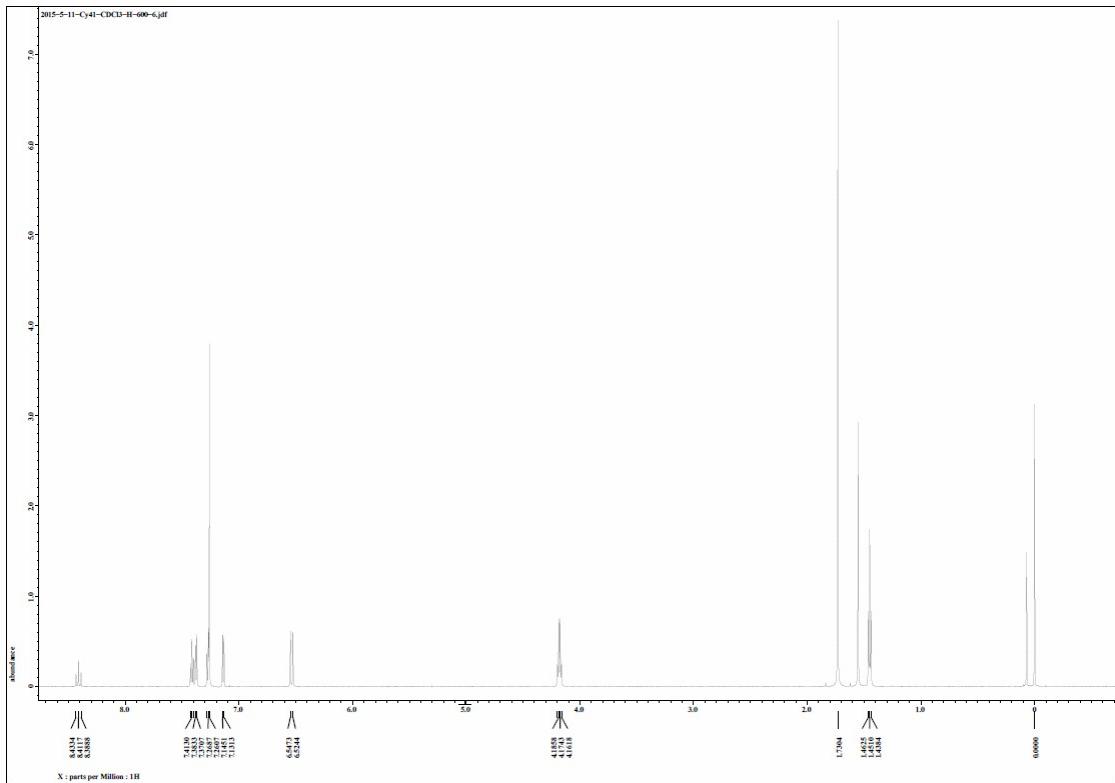


Figure S4. ^1H NMR for 41.

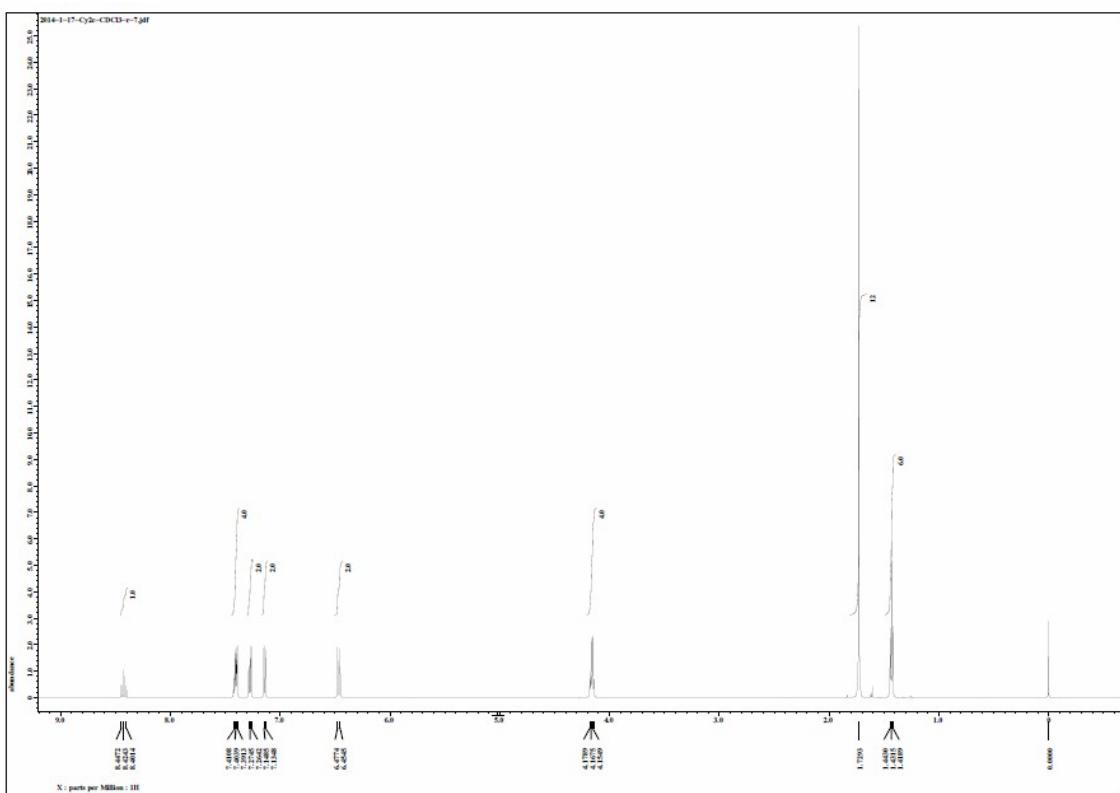


Figure S5. ^1H NMR for **42**.

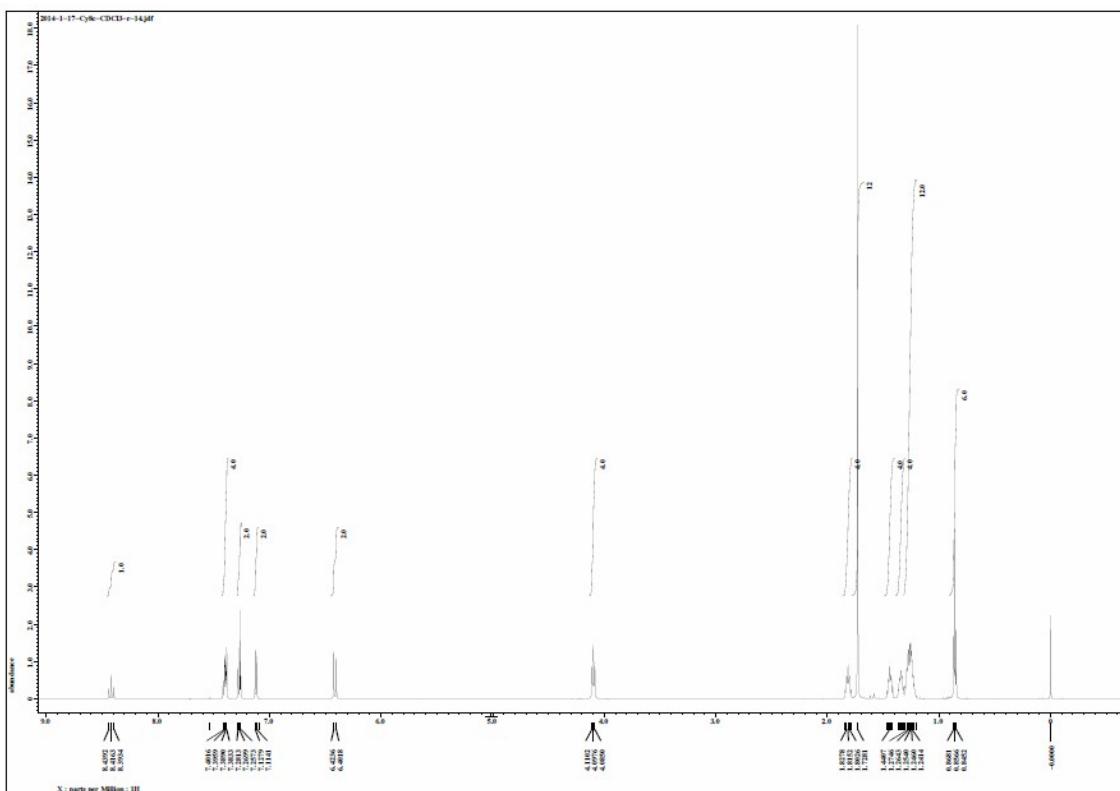


Figure S6. ^1H NMR for **43**.

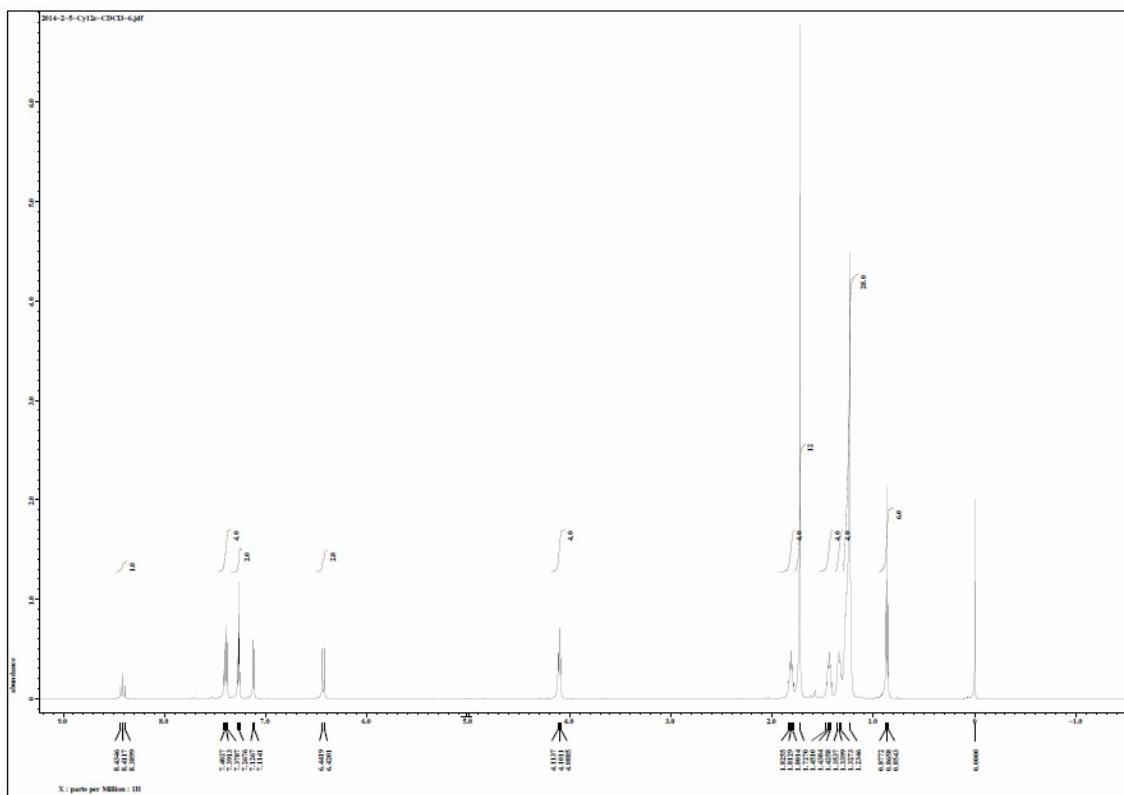


Figure S7. ^1H NMR for **44**.

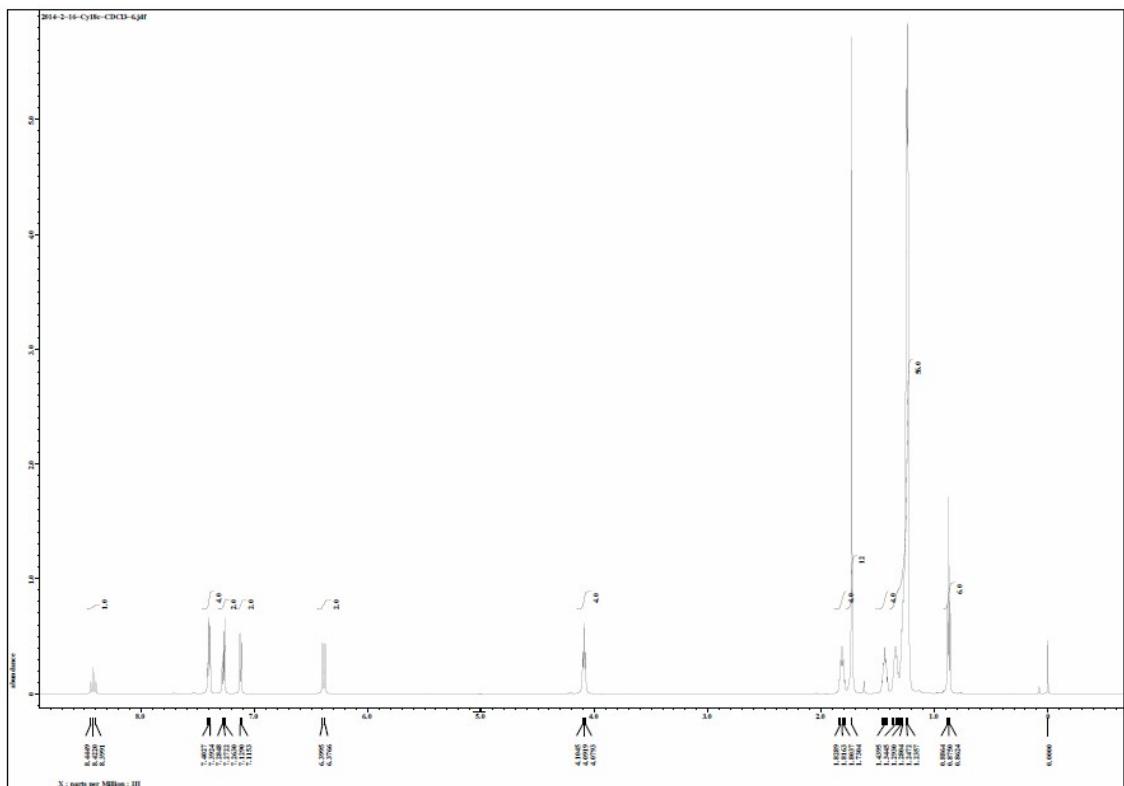


Figure S8. ^1H NMR for **45**.

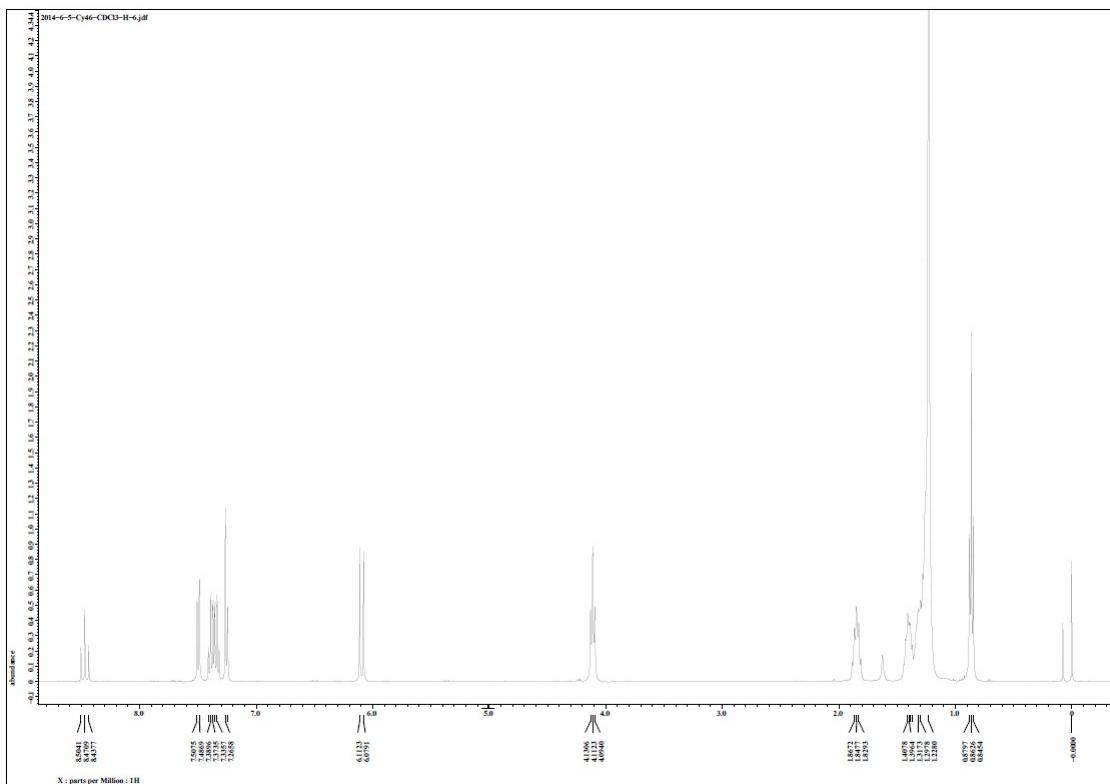


Figure S9. ^1H NMR for **46**.

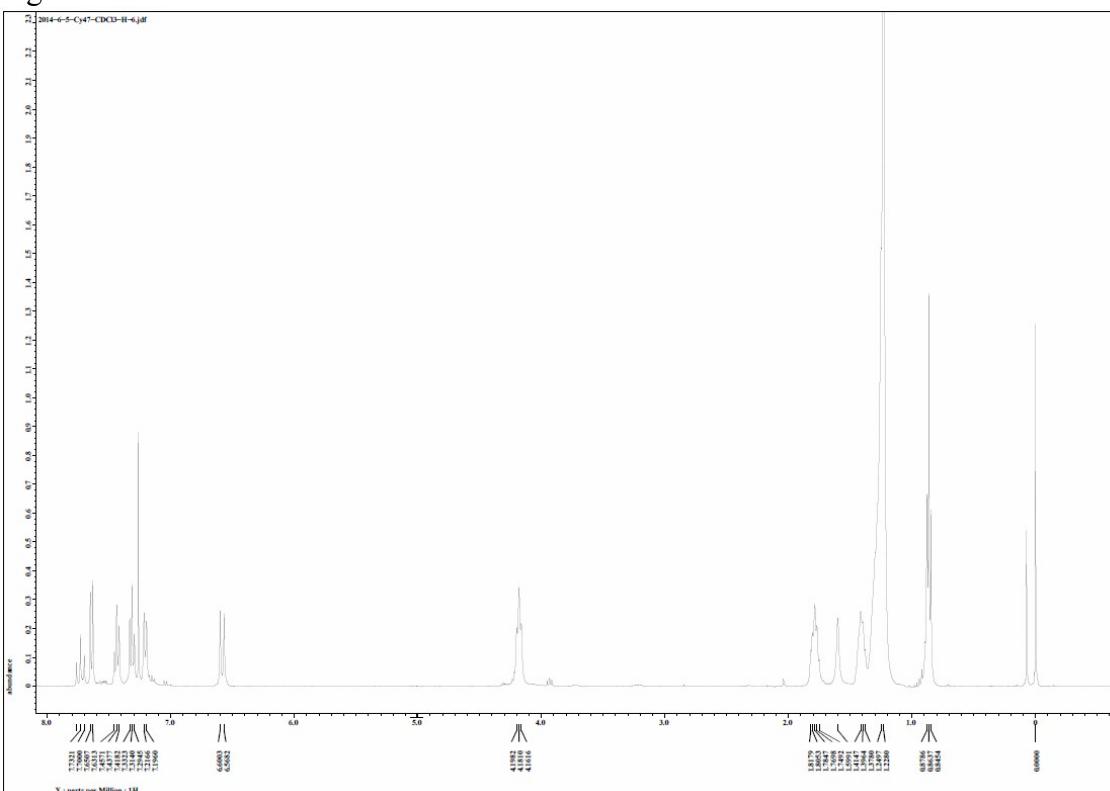


Figure S10. ^1H NMR for **47**.

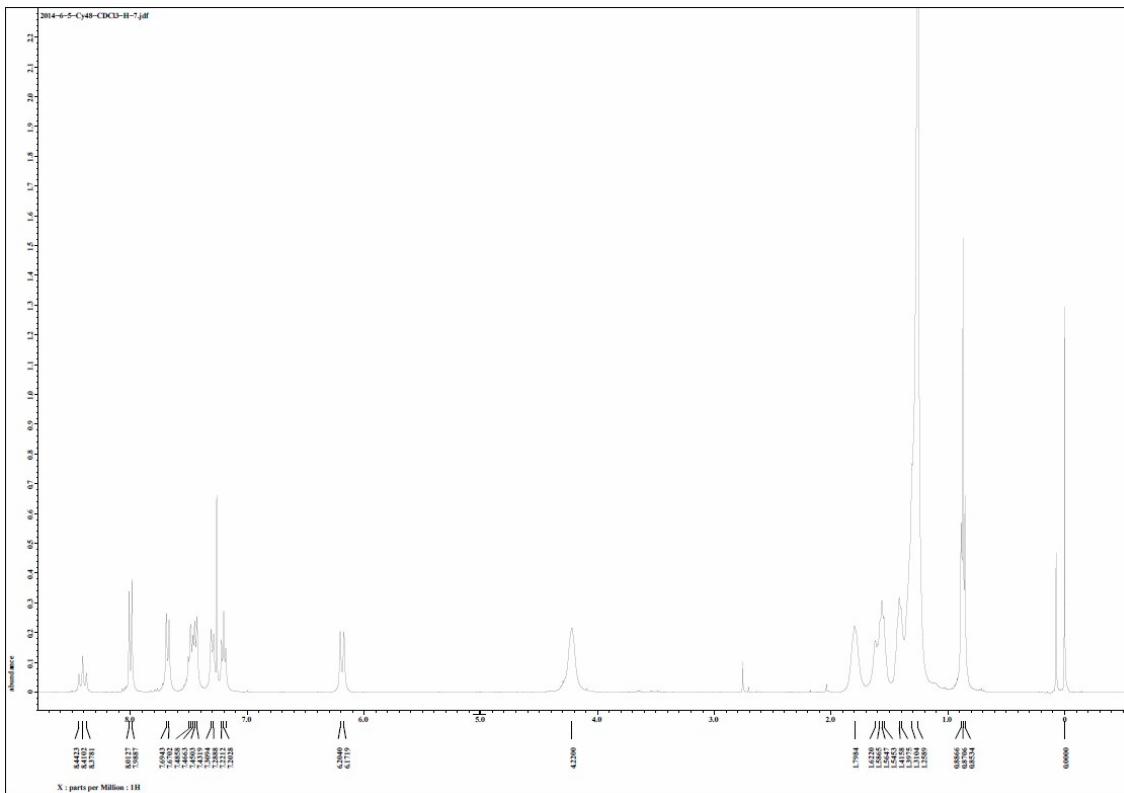


Figure S11. ^1H NMR for **48**.

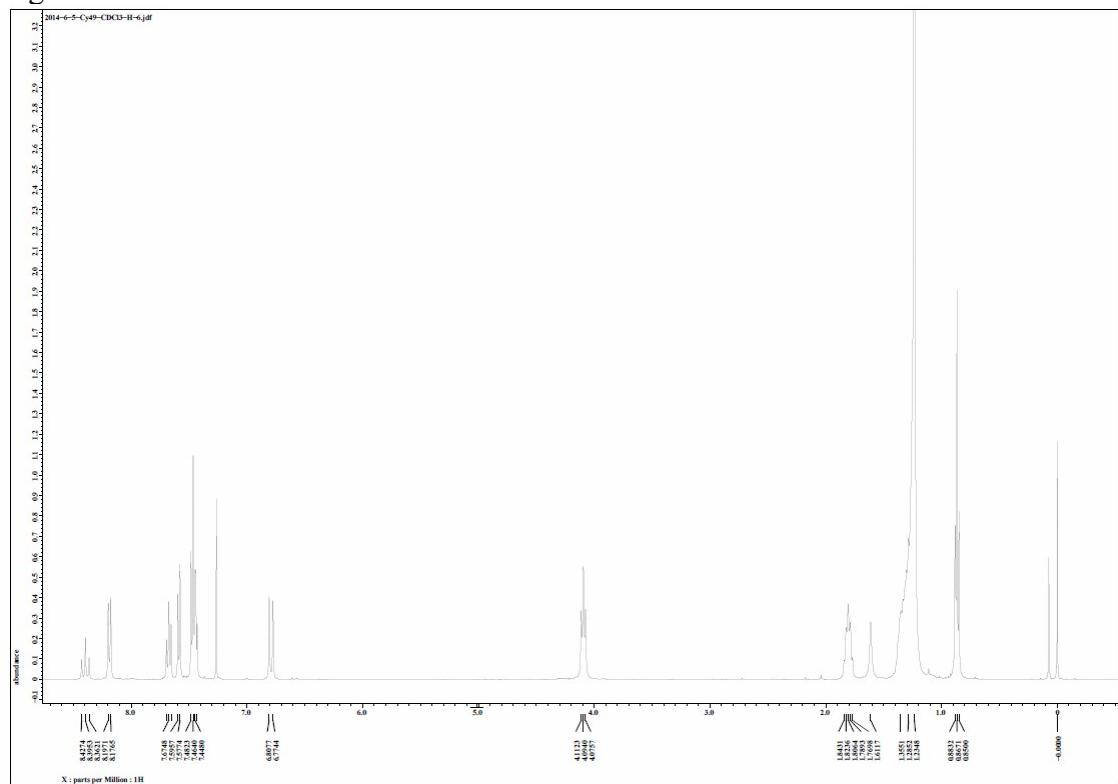


Figure S12. ^1H NMR for **49**.

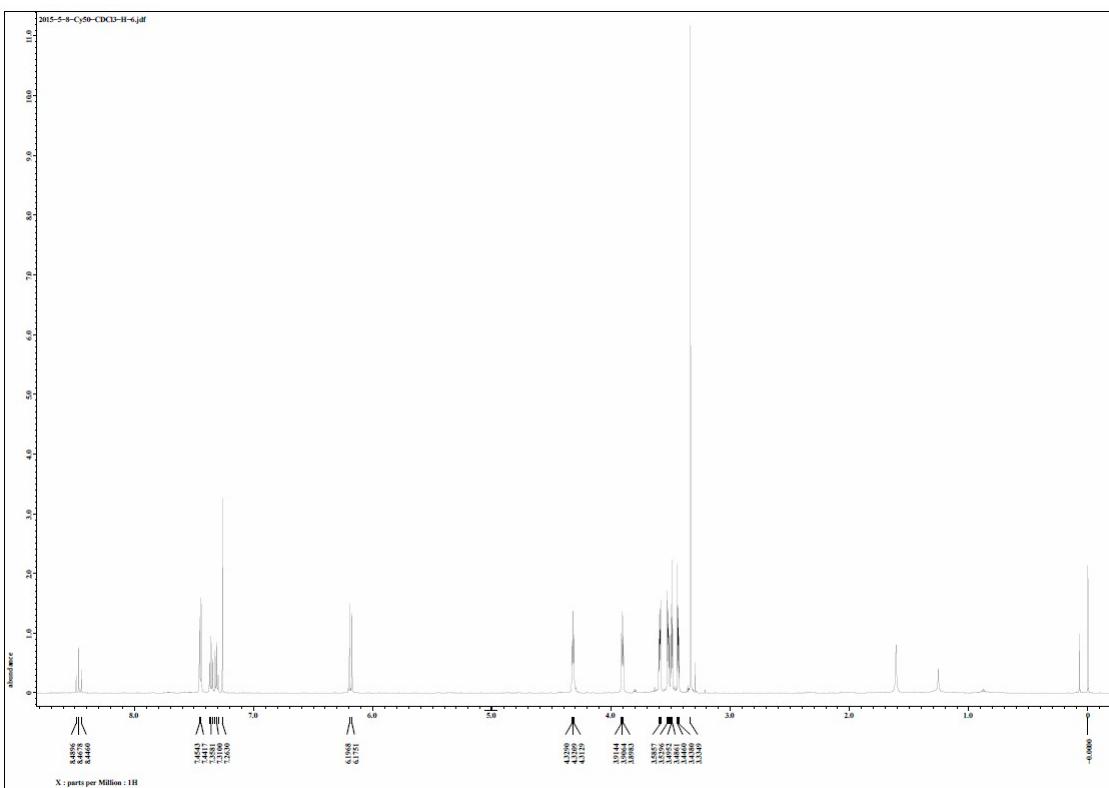


Figure S13. ¹H NMR for **50**.

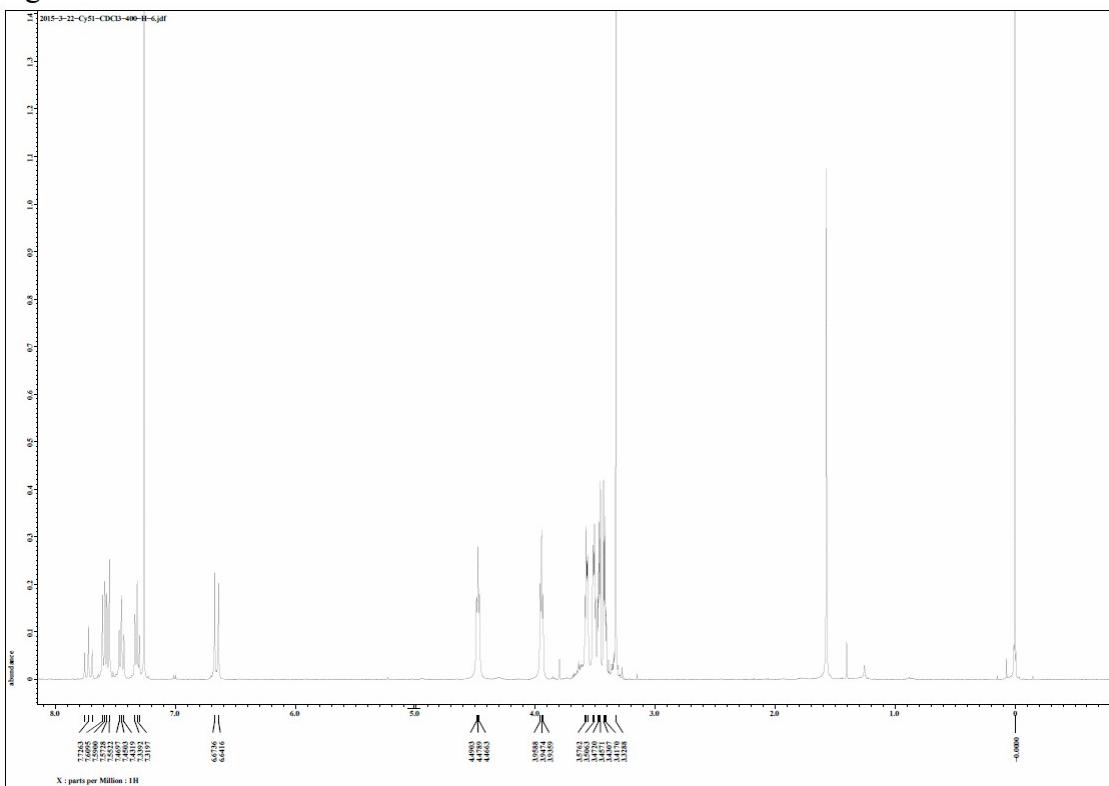


Figure S14. ¹H NMR for **51**.

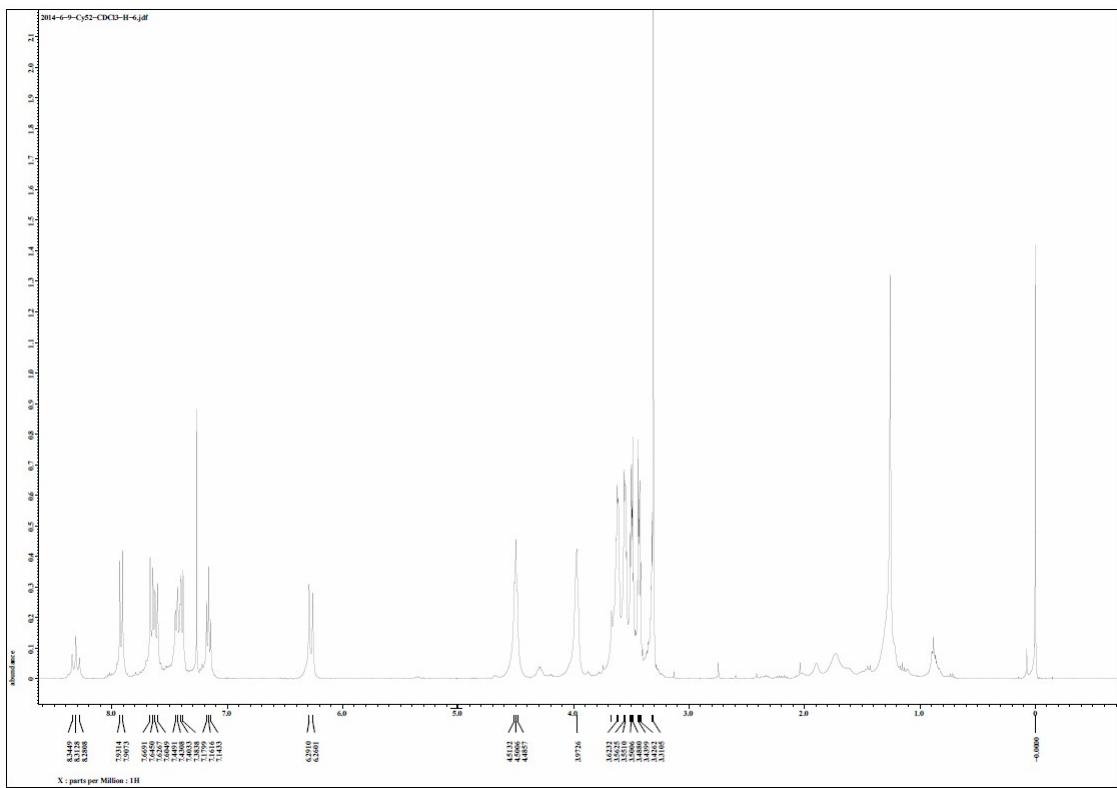


Figure S15. ¹H NMR for **52**.

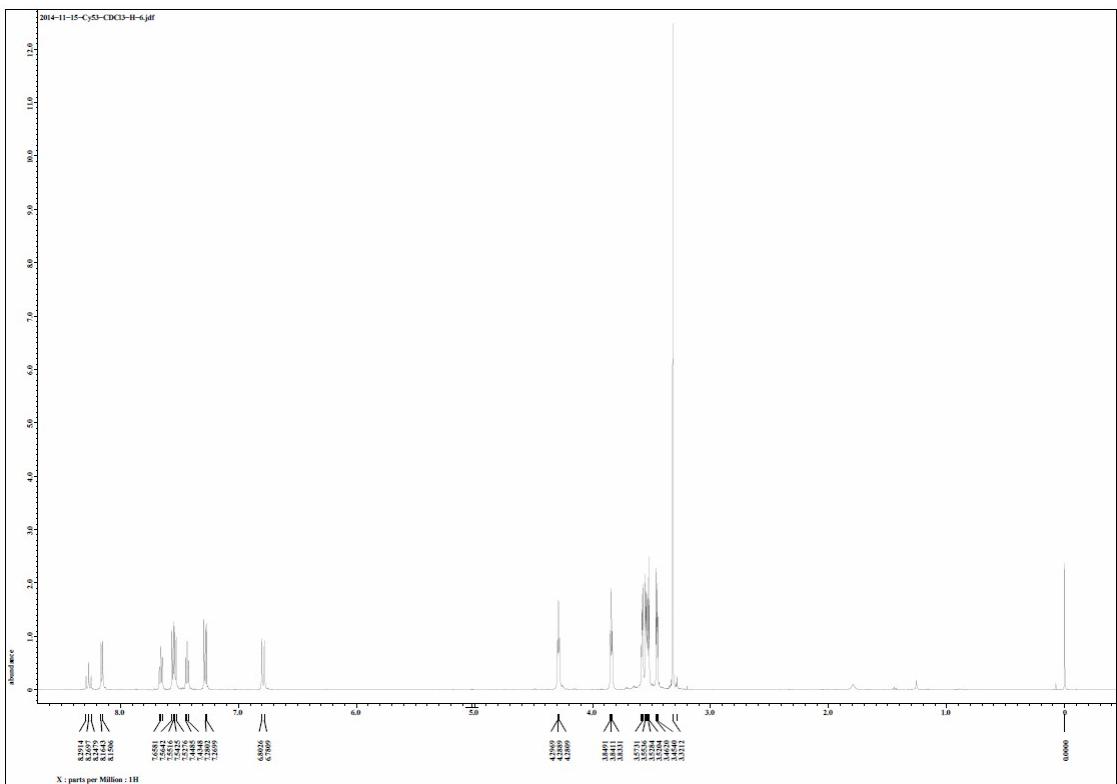


Figure S16. ¹H NMR for **53**.

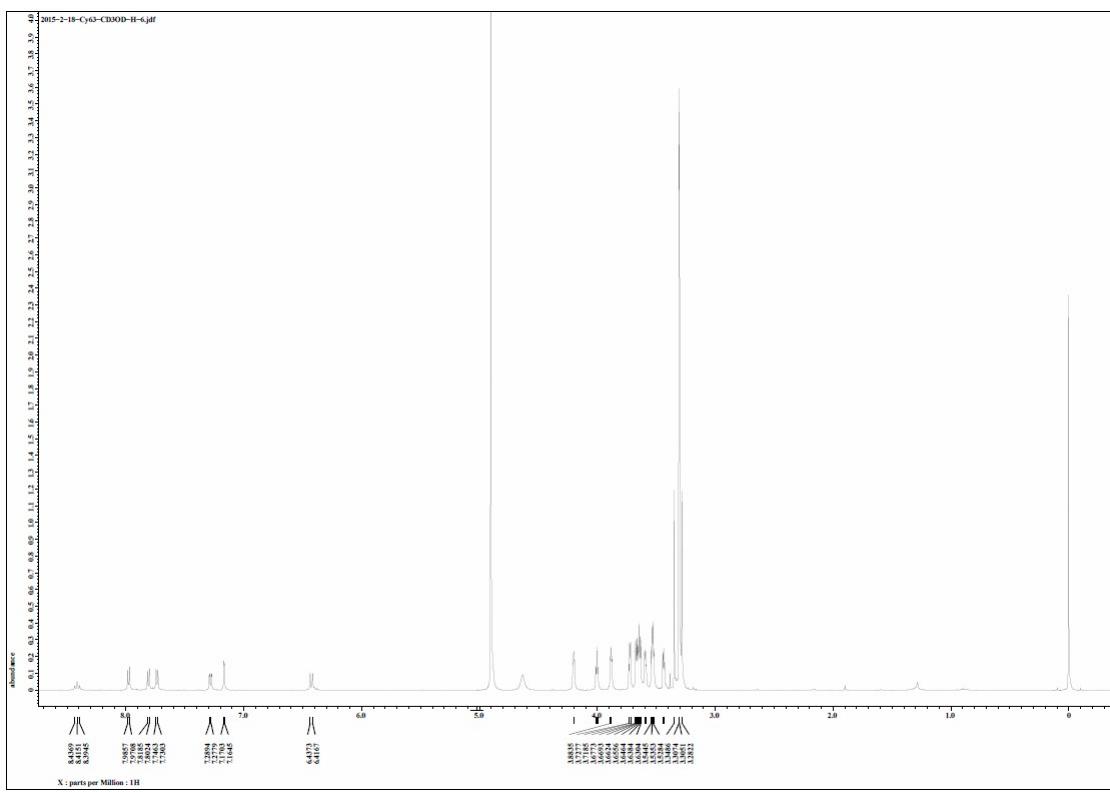


Figure S17. ^1H NMR for **57**.

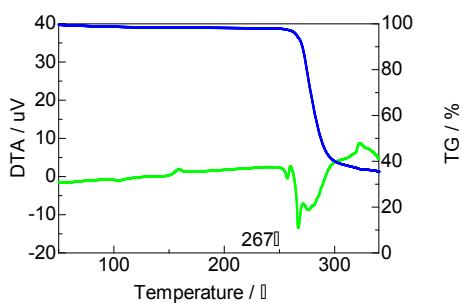


Figure S18. TG/DTA of **23**.

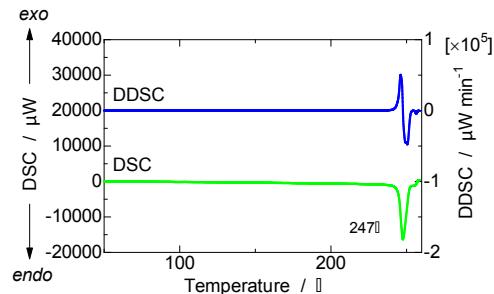


Figure S19. DSC of **39**.

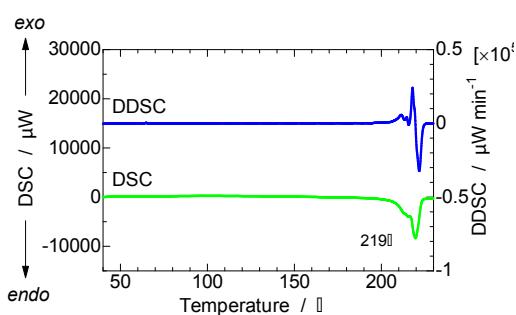


Figure S20. DSC of **40**.

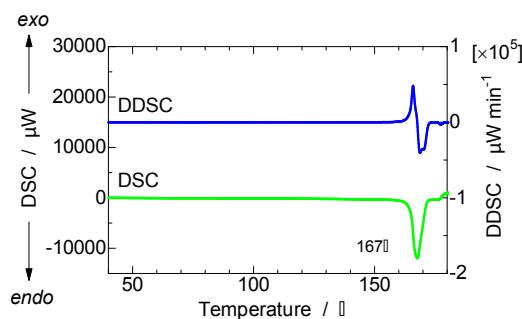


Figure S21. DSC of **41**.

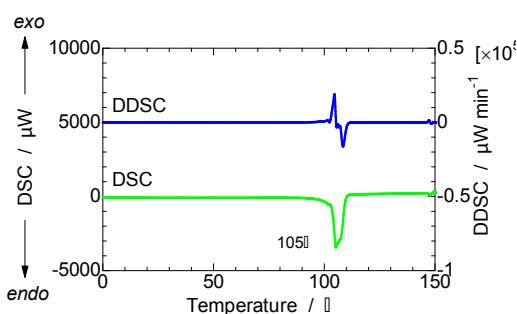


Figure S22. DSC of **42**.

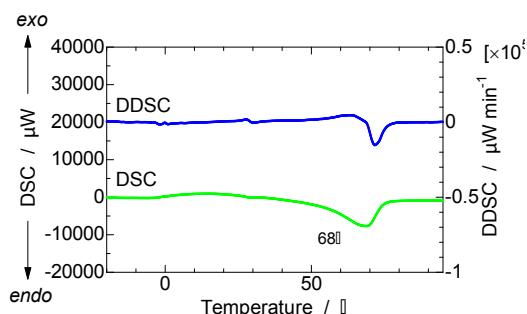


Figure S23. DSC of **43**.

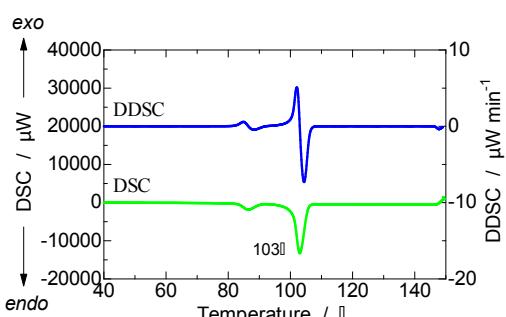


Figure S24. DSC of **46**.

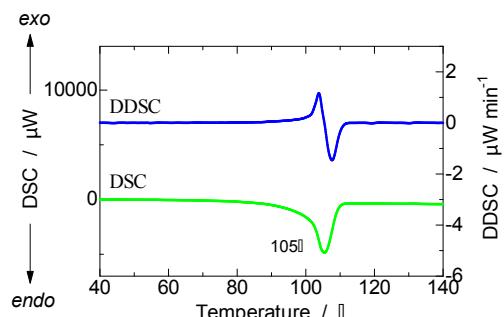


Figure S25. DSC of **47**.

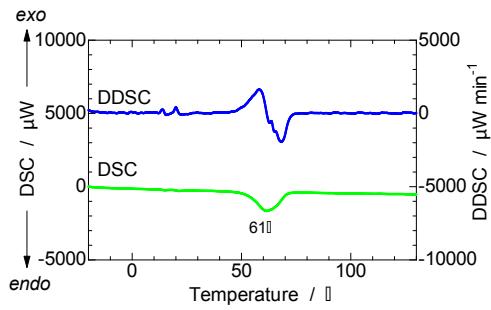


Figure S26. DSC of **48**.

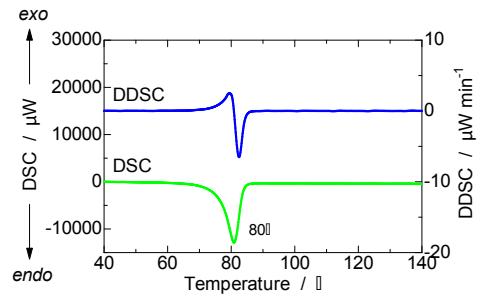


Figure S27. DSC of **49**.

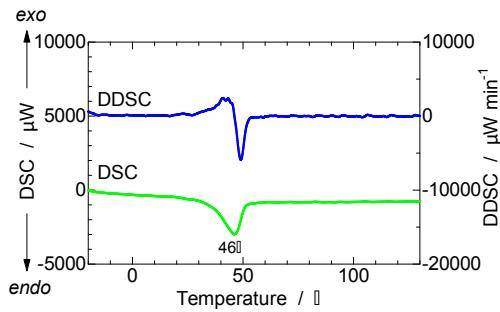


Figure S28. DSC of **52**.

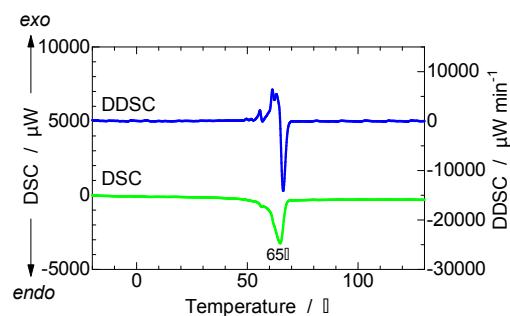


Figure S29. DSC of **53**.

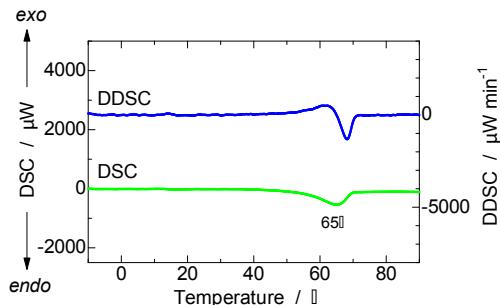


Figure S30. DSC of **57**.