Appendix A: Spectral Representation

A1. Representation Spectra of Chapter 2

Figure A1. $^1$H NMR spectrum of 9b in CDCl$_3$. 
**Figure A2.** $^{13}$C NMR spectrum of 9b in CDCl$_3$.

**Figure A3.** $^1$H NMR spectrum of 9c in CDCl$_3$. 
Figure A4. $^{13}$C NMR spectrum of 9c in CDCl$_3$.

Figure A5. $^1$H NMR spectrum of 10b in CDCl$_3$. 
Figure A6. $^{13}$C NMR spectrum of 10b in CDCl$_3$.

Figure A7. $^1$H NMR spectrum of 10c in CDCl$_3$. 
Figure A8. $^{13}$C NMR spectrum of 10c in CDCl$_3$.

Figure A9. $^1$H NMR spectrum of 11a in DMSO-$d_6$. 
Figure A10. $^1$H NMR spectrum of 11b in CDCl$_3$.

Figure A11. $^{13}$C NMR spectrum of 11b in CDCl$_3$. 
Figure A12. $^1$H NMR spectrum of 11c in CDCl$_3$.

Figure A13 $^{13}$C NMR spectrum of 11c in CDCl$_3$. 
Figure A14. Mass spectrum of 11a in methanol.
A2. Representation Spectra of Chapter 3

Figure A15. $^1$H NMR spectrum of 3b in CDCl$_3$.

Figure A16. $^{13}$C NMR spectrum of 3b in CDCl$_3$.
Figure A17. $^1$H NMR spectrum of 3c in CDCl$_3$.

Figure A18. $^{13}$C NMR spectrum of 3c in CDCl$_3$. 
Figure A19. $^1$H NMR spectrum of 4a in DMSO-$d_6$.

Figure A20. $^1$H NMR spectrum of 4b in CDCl$_3$. 
Figure A21. $^{13}$C NMR spectrum of 4b in CDCl$_3$.

Figure A22. $^1$H NMR spectrum of 4c in CDCl$_3$. 
Figure A23. $^{13}$C NMR spectrum of 4c in CDCl$_3$.

Figure A24. Mass spectra of compound 4b in methanol.
Figure A25. Mass spectra of compound 4c in methanol.
A3 Representation Spectra of Chapter 4

Figure A26. $^1$H NMR spectrum of 3a in CDCl$_3$.

Figure A27. $^{13}$C NMR spectrum of 3a in CDCl$_3$. 
Figure A28. $^1$H NMR spectrum of $3b$ in CDCl$_3$.

Figure A29. $^{13}$C NMR spectrum of $3b$ in CDCl$_3$. 
Figure A30. $^1$H NMR spectrum of 4a in CDCl$_3$.

Figure A31. $^{13}$C NMR spectrum of 4a in CDCl$_3$. 
Figure A32. $^1$H NMR spectrum of 4b in CDCl$_3$.

Figure A33. $^{13}$C NMR spectrum of 4b in CDCl$_3$. 
Figure A34. Mass spectrum of 4b in chloroform.
A4. Representation Spectra of Chapter 5

Figure A35. $^1$H NMR spectrum of compound 3a in CDCl$_3$.

Figure A36. $^{13}$C NMR spectrum of compound 3a in CDCl$_3$. 
Figure A37. $^1$H NMR spectrum of compound 3b in CDCl$_3$.

Figure A38. $^{13}$C NMR spectrum of compound 3b in CDCl$_3$. 
Figure A39. $^1$H NMR spectrum of compound 4a in CDCl$_3$.

Figure A40. $^{13}$C NMR spectrum of compound 4a in CDCl$_3$. 
Figure A41. $^1$H NMR spectrum of compound 4b in CDCl$_3$.

Figure A42. $^{13}$C NMR spectrum of compound 4b in CDCl$_3$. 
Figure A43. $^1$H NMR spectrum of linseed oil in CDCl$_3$.

Figure A44. $^1$H NMR spectrum of epoxidized linseed oil (ELO) in CDCl$_3$. 
Figure A45. $^1$H NMR spectrum of acrylated epoxidized linseed oil (AELO) in CDCl$_3$.

Figure A46. Mass spectrum of compound 4a in methanol.
Figure A47. Mass spectra of compound 4b in methanol.

Figure A48. Mass spectra of compound 4c in methanol.
Figure A49. Mass spectra of compound 4d in methanol.
A5. Representation Spectra of Chapter 6

Figure A50. $^1$H NMR of compound 3a in DMSO-$d_6$.

Figure A51. $^{13}$C NMR of compound 3a in DMSO-$d_6$. 
Figure A52. $^1$H NMR of compound 3b in DMSO-$d_6$.

Figure A53. $^{13}$C NMR of compound 3b in DMSO-$d_6$. 
Figure A54. $^1$H NMR of compound 3c in DMSO-$d_6$.

Figure A55. $^{13}$C NMR of compound 3c in DMSO-$d_6$. 
Figure A56. Mass spectra of 3a in methanol.

Figure A57. Mass spectra of 3b in methanol.

Figure A58. Mass spectra of 3c in methanol.