APPENDIX 2

Spectra Relevant to Chapter 4
Figure A2.1. $^1$H NMR (500 MHz, CDCl$_3$) of compound 243.
Figure A2.2 Infrared spectrum (thin film/NaCl) of compound 243.

Figure A2.3 $^{13}$C NMR (126 MHz, CDCl$_3$) of compound 243.
Figure A2.4 $^1$H NMR (300 MHz, CDCl$_3$) of compound 269.
Figure A2.5 Infrared spectrum (thin film/NaCl) of compound 269.

Figure A2.6 $^{13}$C NMR (75 MHz, CDCl$_3$) of compound 269.
Figure A2.7  $^1$H NMR (300 MHz, CDCl$_3$) of compound 270.
Figure A2.8 Infrared spectrum (thin film/NaCl) of compound 270.

Figure A2.9 $^{13}$C NMR (75 MHz, CDCl$_3$) of compound 270.
Figure A2.10 $^1$H NMR (300 MHz, CDCl$_3$) of compound 274.
**Figure A2.11** Infrared spectrum (thin film/NaCl) of compound 274.

**Figure A2.12** $^{13}$C NMR (75 MHz, CDCl$_3$) of compound 274.
Figure A2.13. $^1$H NMR (500 MHz, CDCl$_3$) of compound 267.
Figure A2.14 Infrared spectrum (thin film/NaCl) of compound 267.

Figure A2.15 $^{13}$C NMR (126 MHz, CDCl$_3$) of compound 267.
Figure A2.16 $^1$H NMR (500 MHz, CDCl$_3$) of compound 268.
Figure A2.17 Infrared spectrum (thin film/NaCl) of compound 268.

Figure A2.18 $^{13}$C NMR (126 MHz, CDCl$_3$) of compound 268.