APPENDIX 2

Spectra Relevant to Chapter 3:

Progress Toward the Total Synthesis of Jorumycin
Figure A2.1.1: $^1$H NMR (500 MHz, CDCl$_3$) of compound 432.
Figure A2.1.2  Infrared spectrum (thin film/NaCl) of compound \textbf{432}

Figure A2.1.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound \textbf{432}
Figure A2.2.1 $^1$H NMR (500 MHz, CDCl$_3$) of compound 291i
Figure A2.2.2  Infrared spectrum (thin film/NaCl) of compound 291i

Figure A2.2.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 291i
Figure A2.3.1 \(^1\)H NMR (500 MHz, CDCl\(_3\)) of compound 434
Figure A2.3.2  Infrared spectrum (thin film/NaCl) of compound 434

Figure A2.3.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 434
Figure A2.4.1 $^1$H NMR (500 MHz, CDCl$_3$) of compound 439
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Figure A2.4.2  Infrared spectrum (thin film/NaCl) of compound 439

Figure A2.4.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 439
Figure A2.5.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 474
Figure A2.5.2  Infrared spectrum (thin film/NaCl) of compound 474

Figure A2.5.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 474
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Figure A2.6.1. $^1$H NMR (500 MHz, CDCl$_3$) of compound 443.
Figure A2.6.2  Infrared spectrum (thin film/NaCl) of compound 443

Figure A2.6.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 443
Figure A2.7.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 464
Figure A2.7.2  Infrared spectrum (thin film/NaCl) of compound 464

Figure A2.7.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 464
Figure A2.8.1 $^1$H NMR (500 MHz, CDCl$_3$) of compound 465
Figure A2.8.2  Infrared spectrum (thin film/NaCl) of compound 465

Figure A2.8.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 465
Figure A2.9.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 466
Figure A2.9.2  Infrared spectrum (thin film/NaCl) of compound 466

Figure A2.9.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 466
Appendix 2 – Spectra Relevant to Chapter 3

Figure A2.10.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 467
Appendix 2 – Spectra Relevant to Chapter 3

Figure A2.10.2  Infrared spectrum (thin film/NaCl) of compound 467

Figure A2.10.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 467
Figure A2.11.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 468
Figure A2.11.2 Infrared spectrum (thin film/NaCl) of compound 468

Figure A2.11.3 $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 468
Figure A2.12.1 $^1$H NMR (500 MHz, CDCl$_3$) of compound 468
Figure A2.12.2  Infrared spectrum (thin film/NaCl) of compound 295

Figure A2.12.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 295
Figure A2.13.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 469
Figure A2.13.2  Infrared spectrum (thin film/NaCl) of compound 469

Figure A2.13.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 469
Figure A2.1.4. 1H NMR (500 MHz, CDCl₃) of compound 426
Figure A2.14.2  Infrared spectrum (thin film/NaCl) of compound 426

Figure A2.14.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 426
Figure A2.15.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 292f
Figure A2.15.2 Infrared spectrum (thin film/NaCl) of compound 292f

Figure A2.15.3 $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 292f
Figure A2.16.1  $^1$H NMR (500 MHz, CDCl$_3$) of compound 428
Figure A2.16.2  Infrared spectrum (thin film/NaCl) of compound 428

Figure A2.16.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 428
Figure A2.17.1: $^1$H NMR (500 MHz, CDCl$_3$) of compound 427
Figure A2.17.2  Infrared spectrum (thin film/NaCl) of compound 427

Figure A2.17.3  $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 427