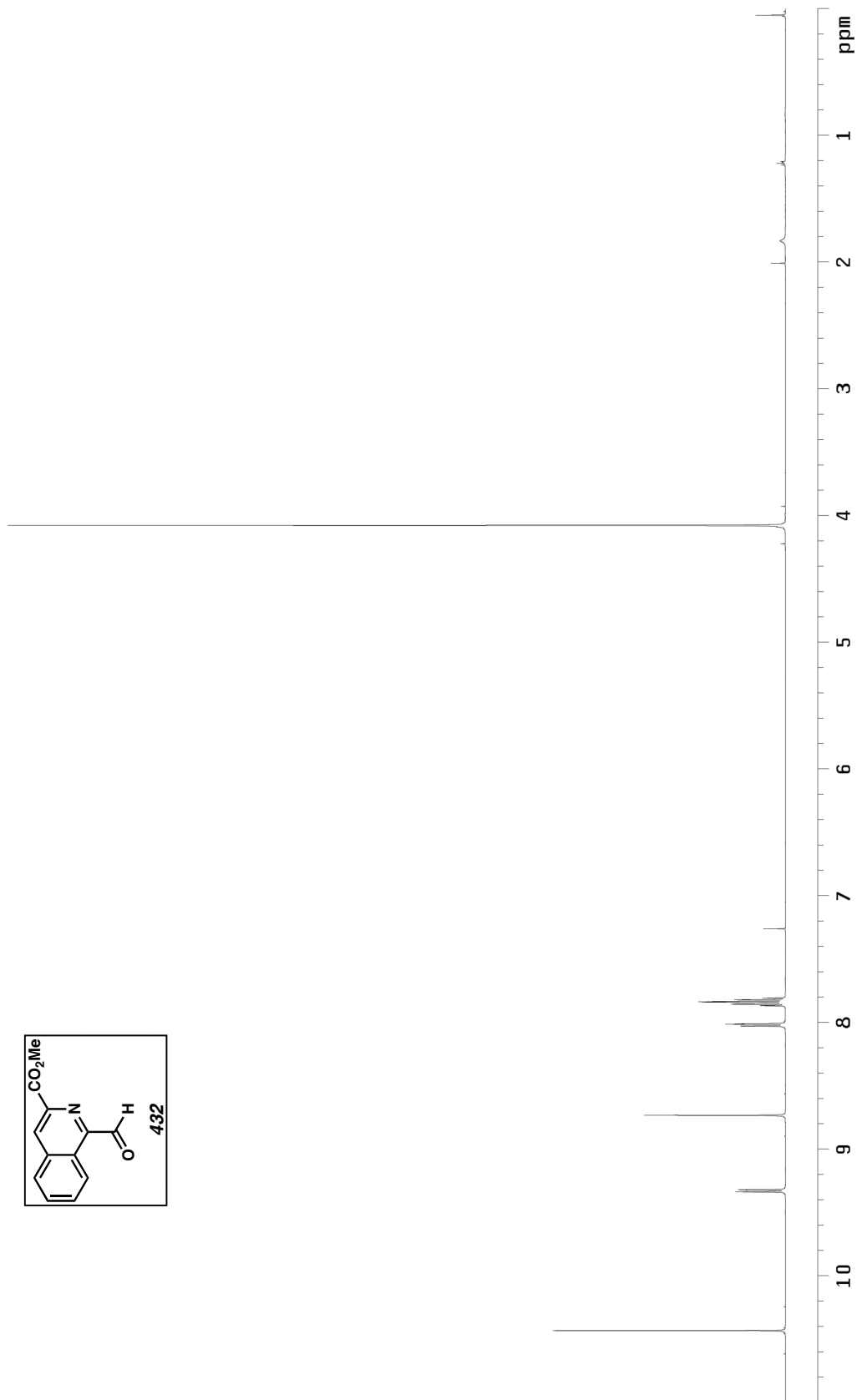
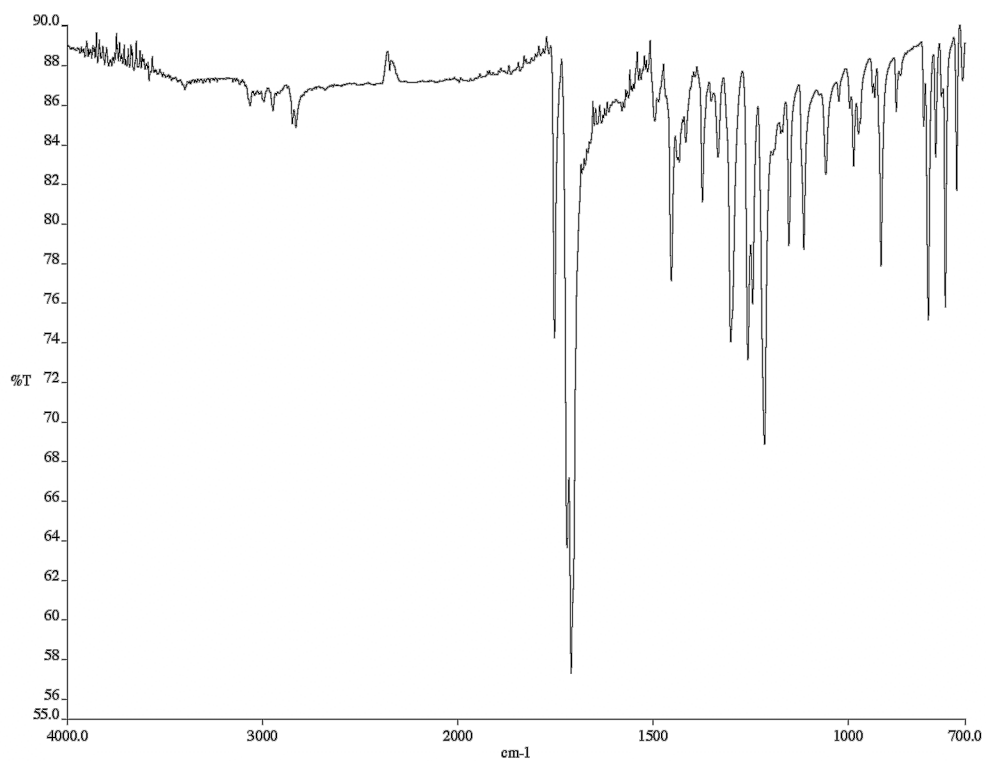
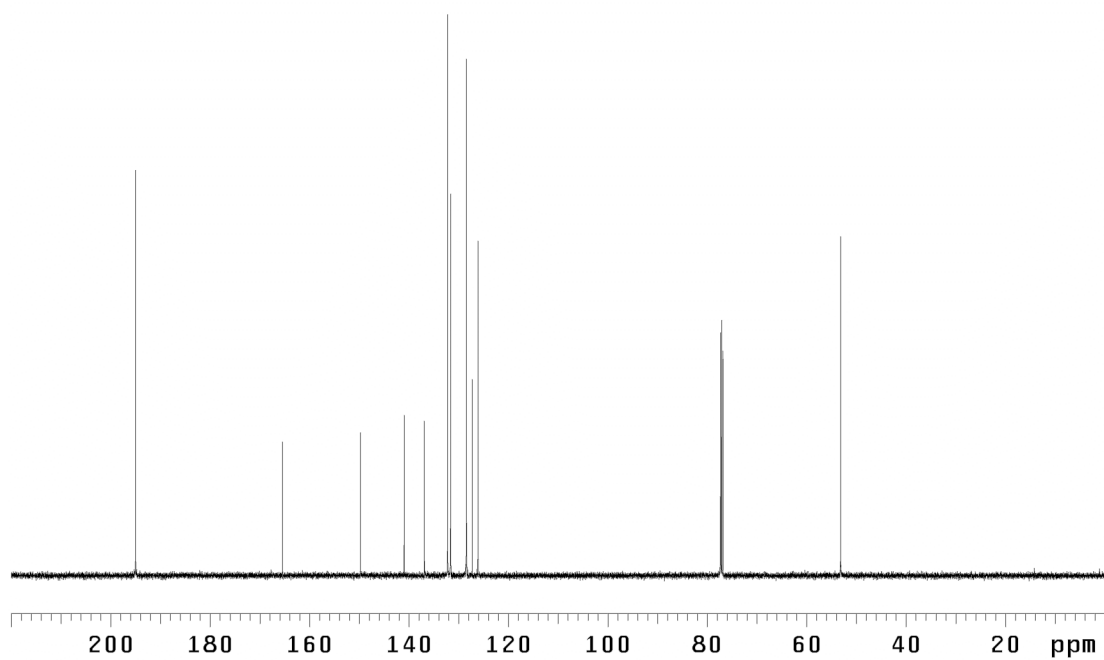


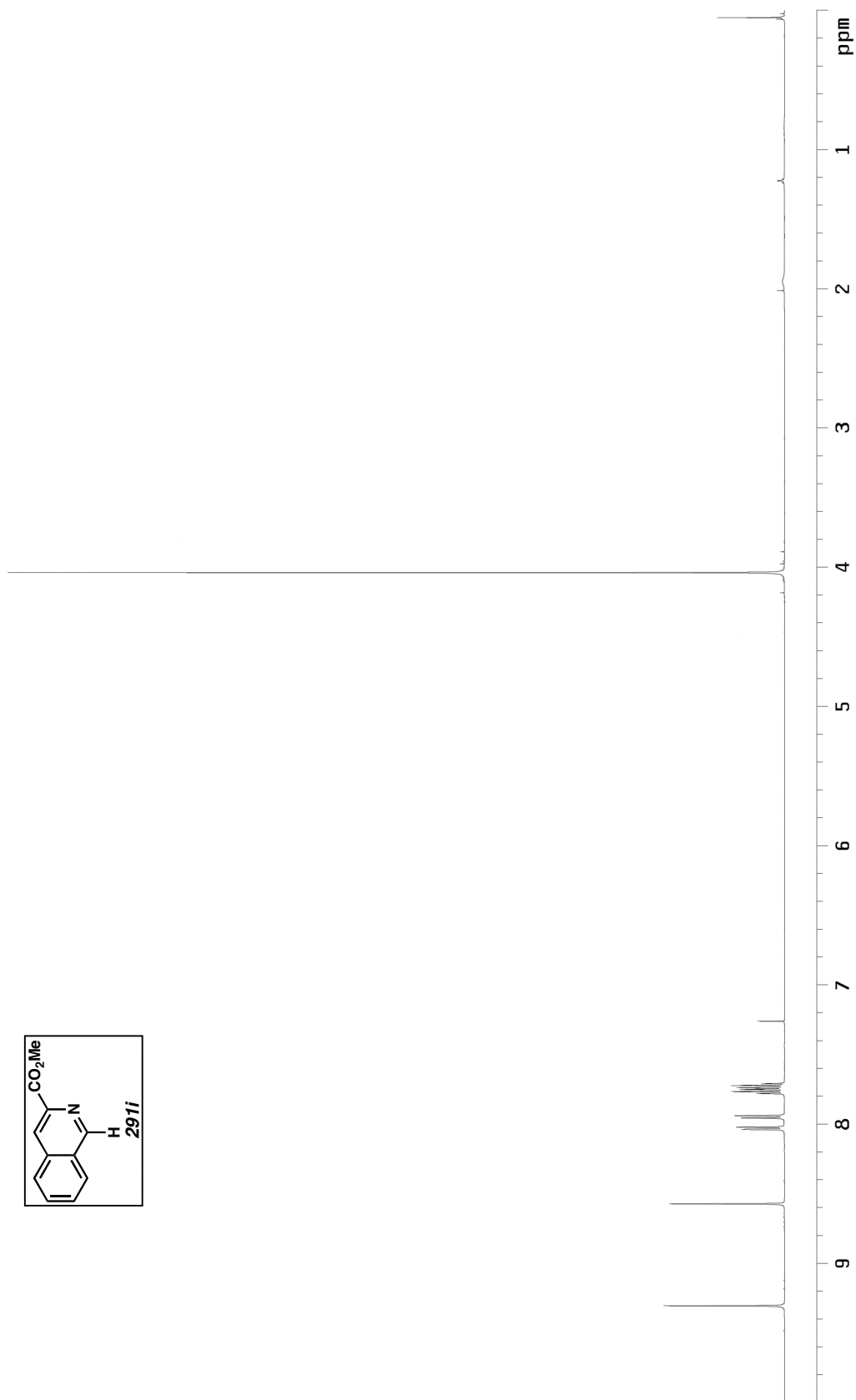
APPENDIX 2

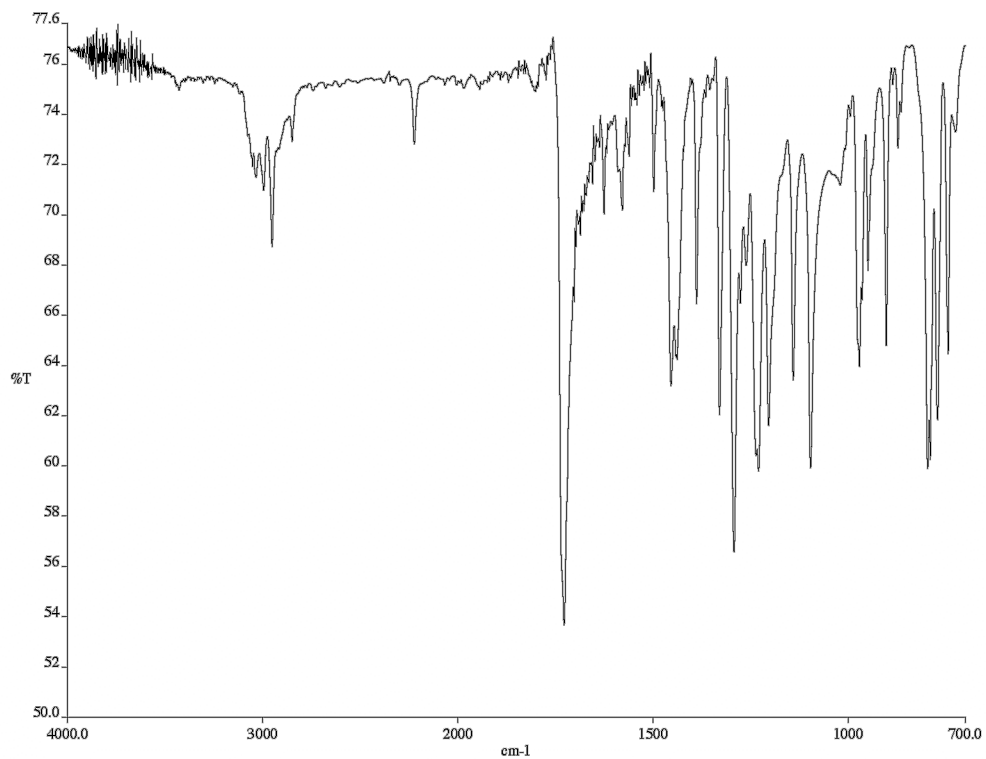
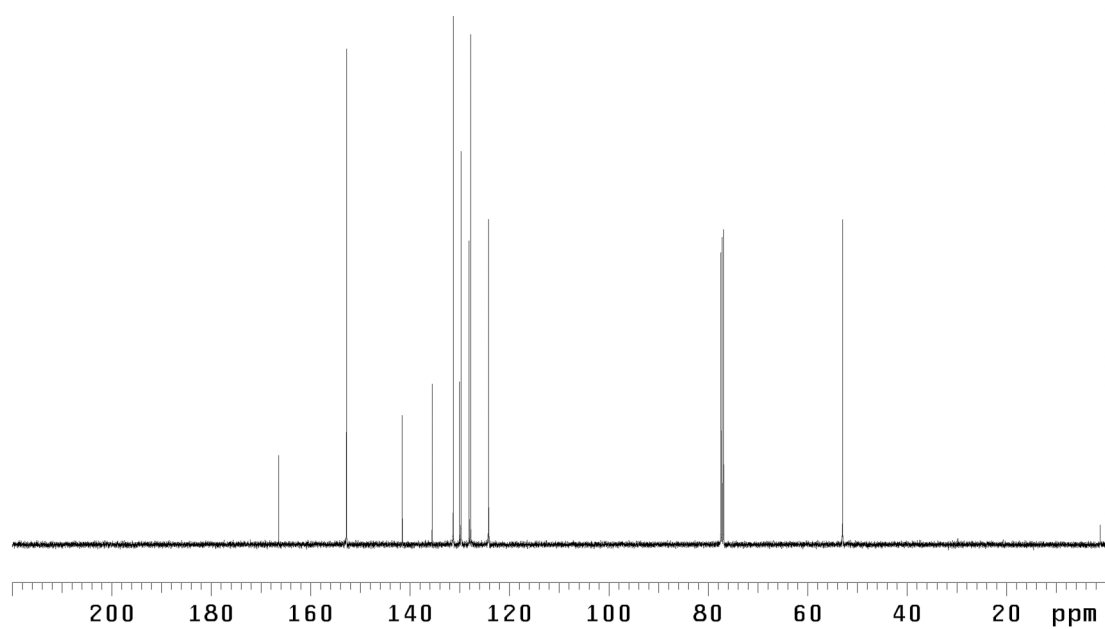
Spectra Relevant to Chapter 3:

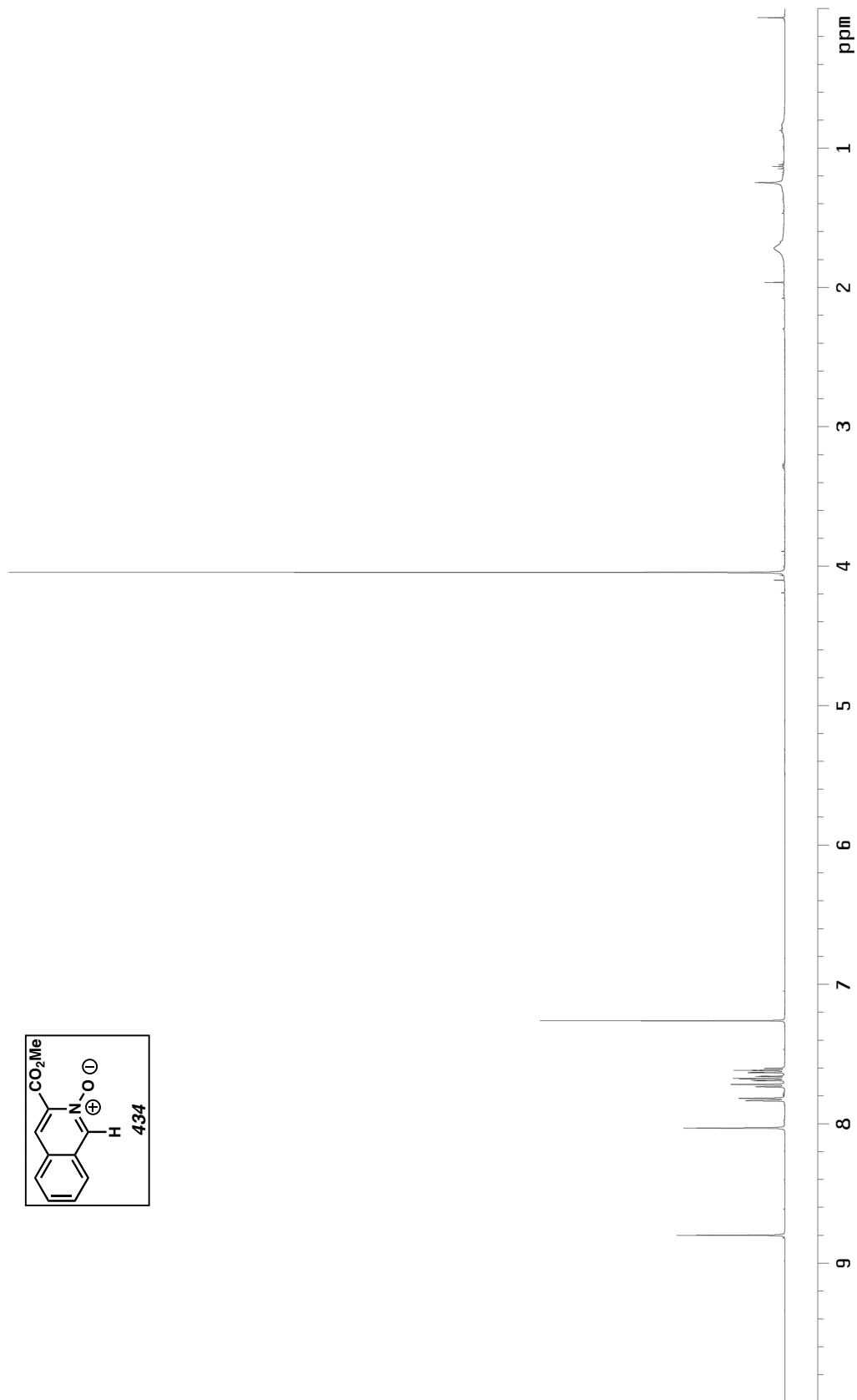
Progress Toward the Total Synthesis of Jorumycin

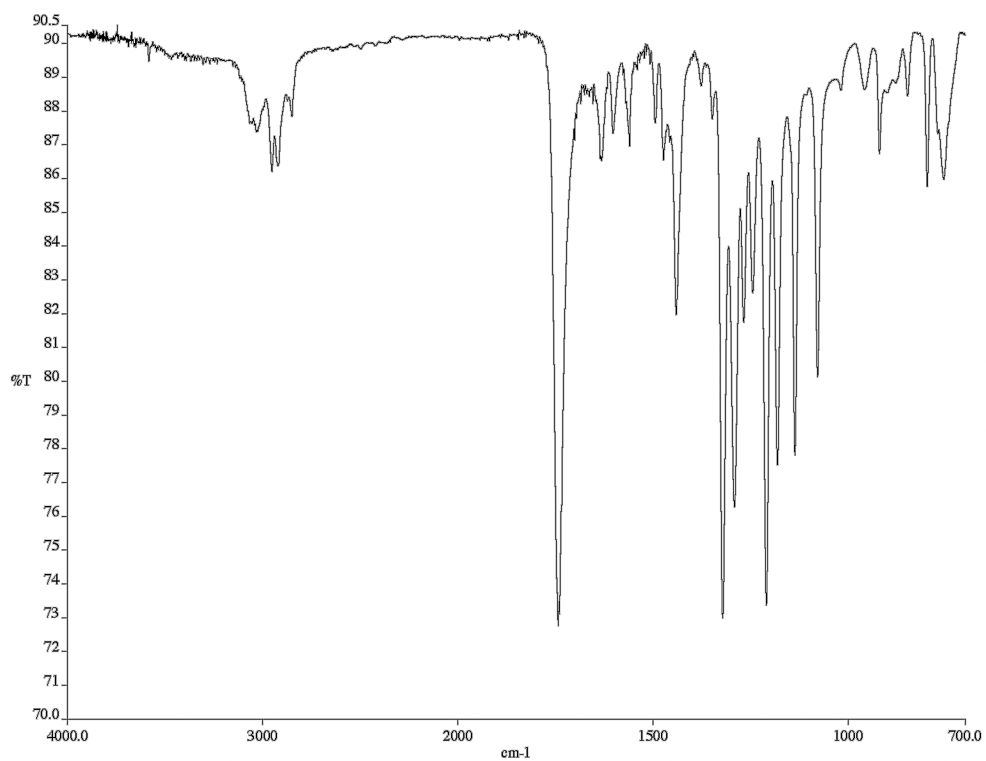
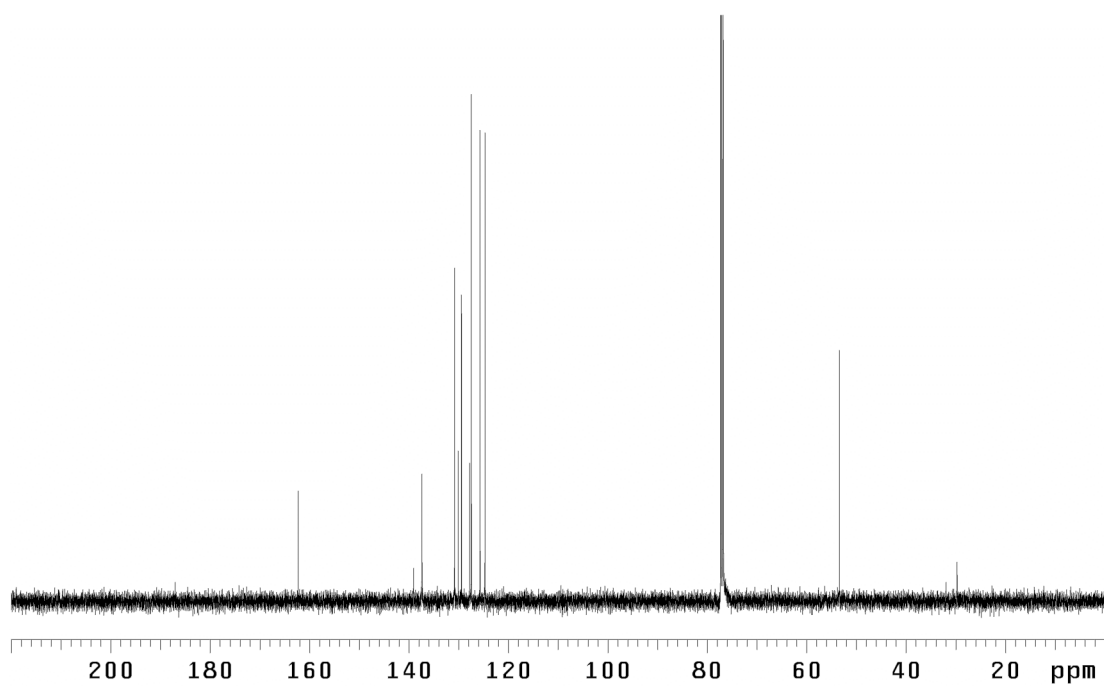
Figure A2.1.1 ¹H NMR (500 MHz, CDCl₃) of compound 432

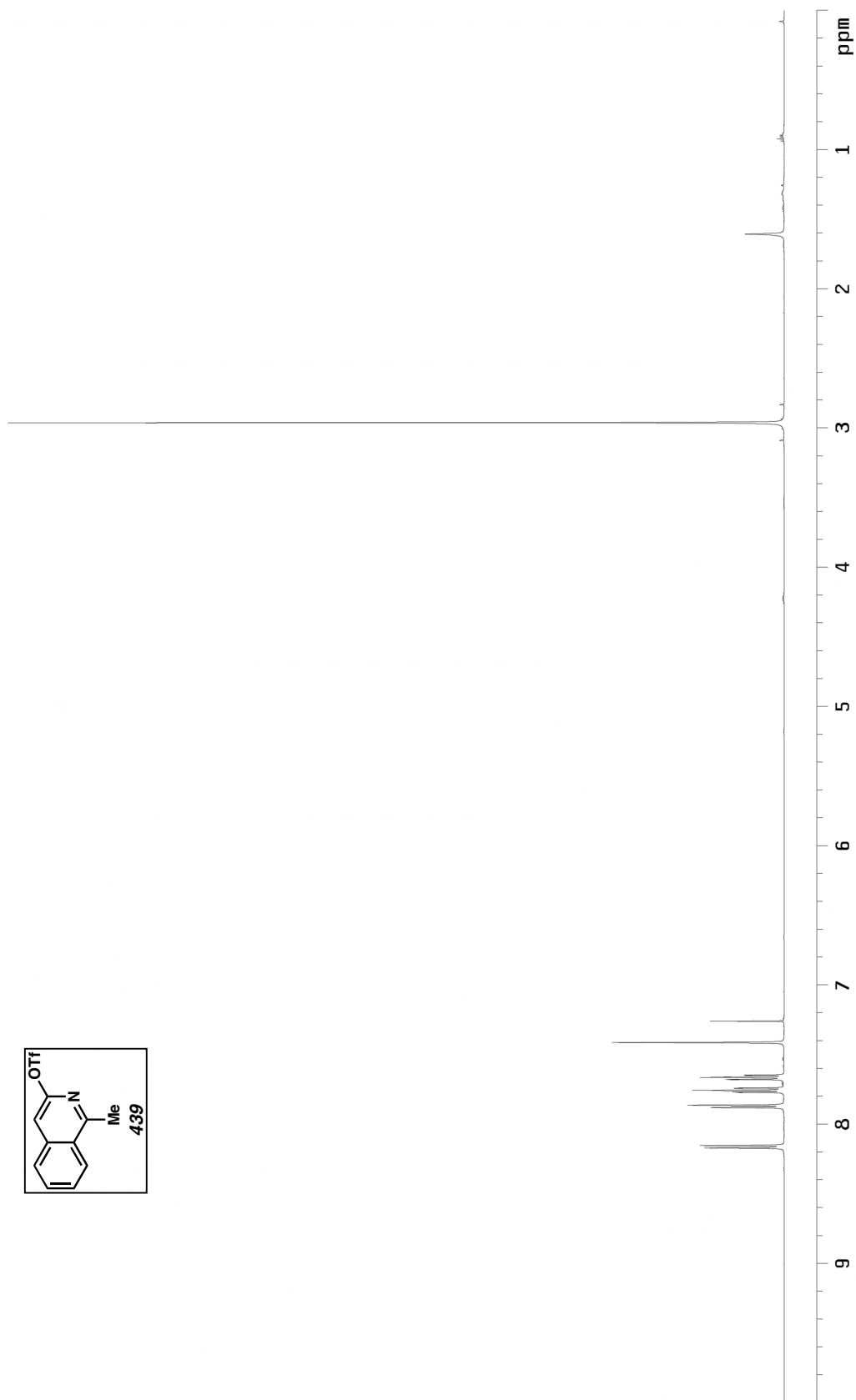
Figure A2.1.2 Infrared spectrum (thin film/NaCl) of compound **432**Figure A2.1.3 ¹³C NMR (125 MHz, CDCl₃) of compound **432**

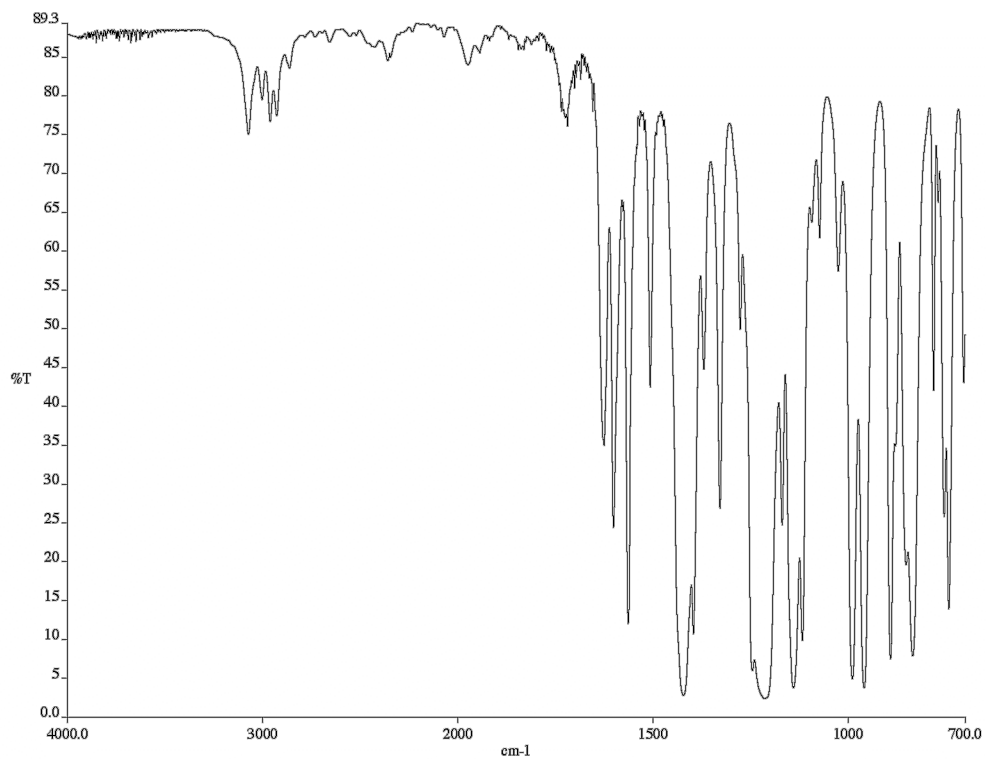
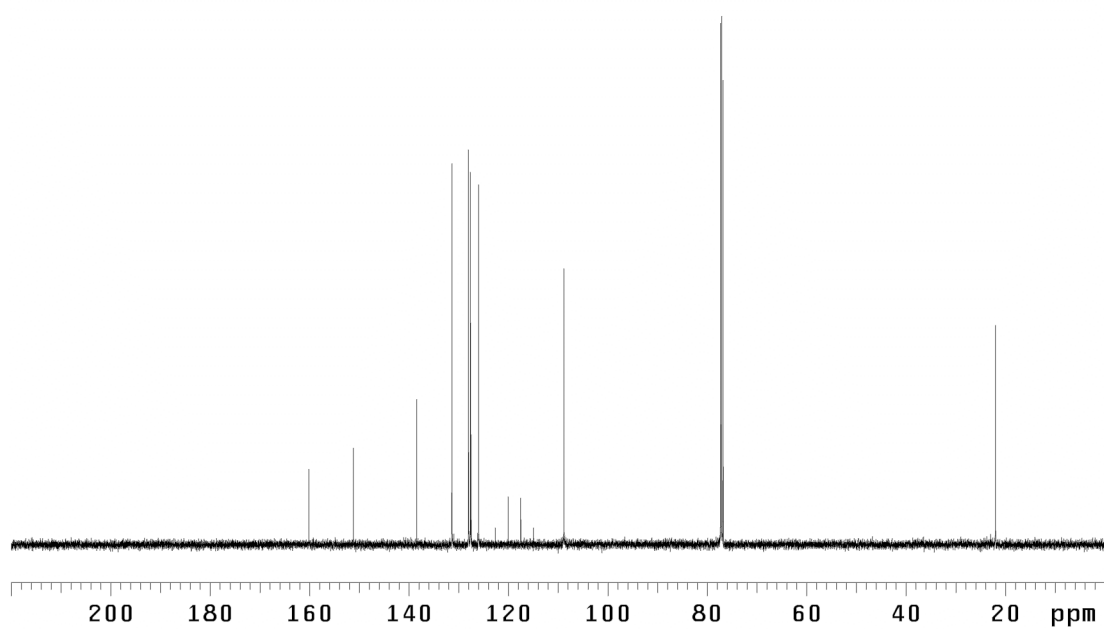
Figure A2.2.1 ^1H NMR (500 MHz, CDCl_3) of compound **291i**

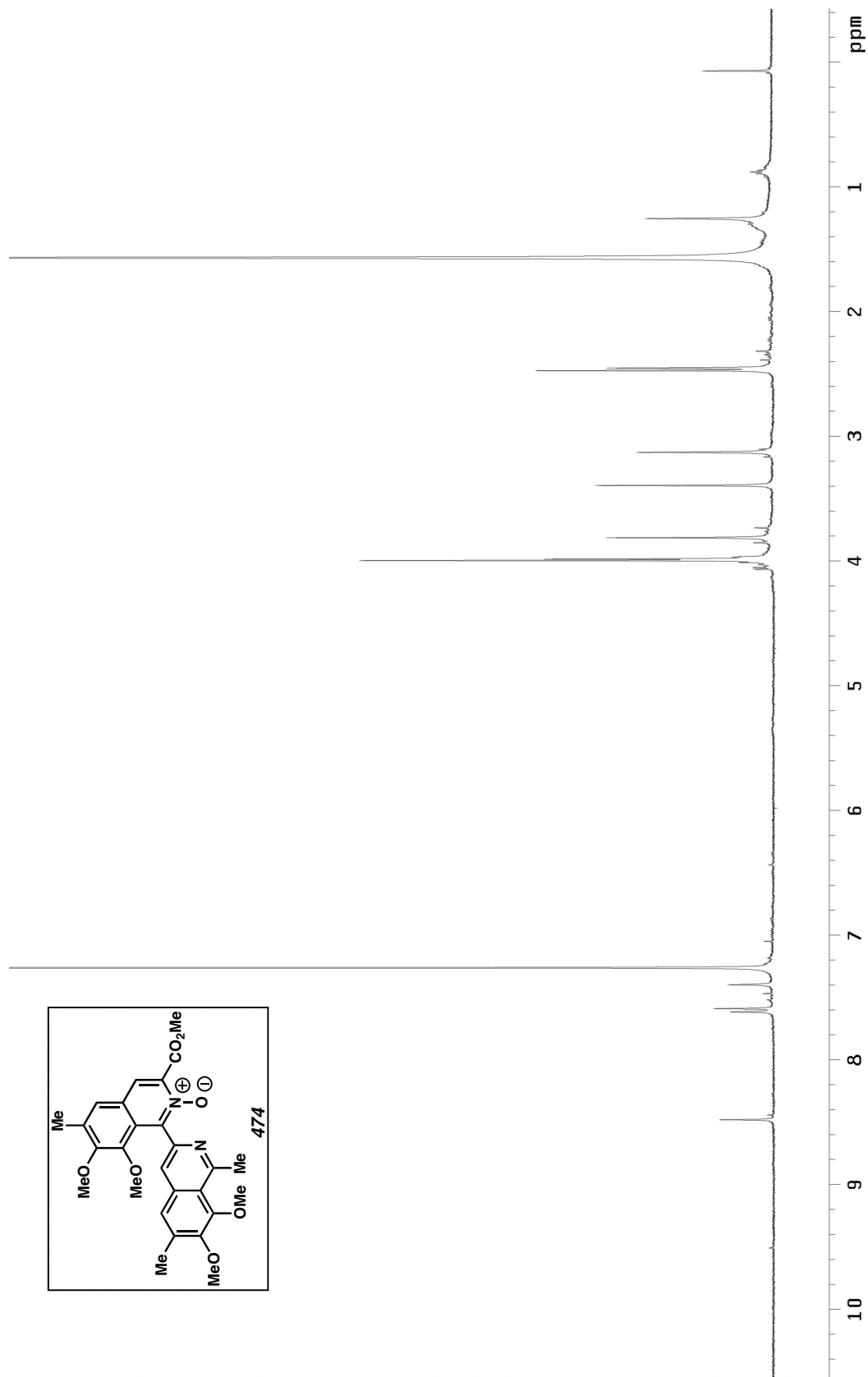
Figure A2.2.2 Infrared spectrum (thin film/NaCl) of compound **291i**Figure A2.2.3 ¹³C NMR (125 MHz, CDCl₃) of compound **291i**

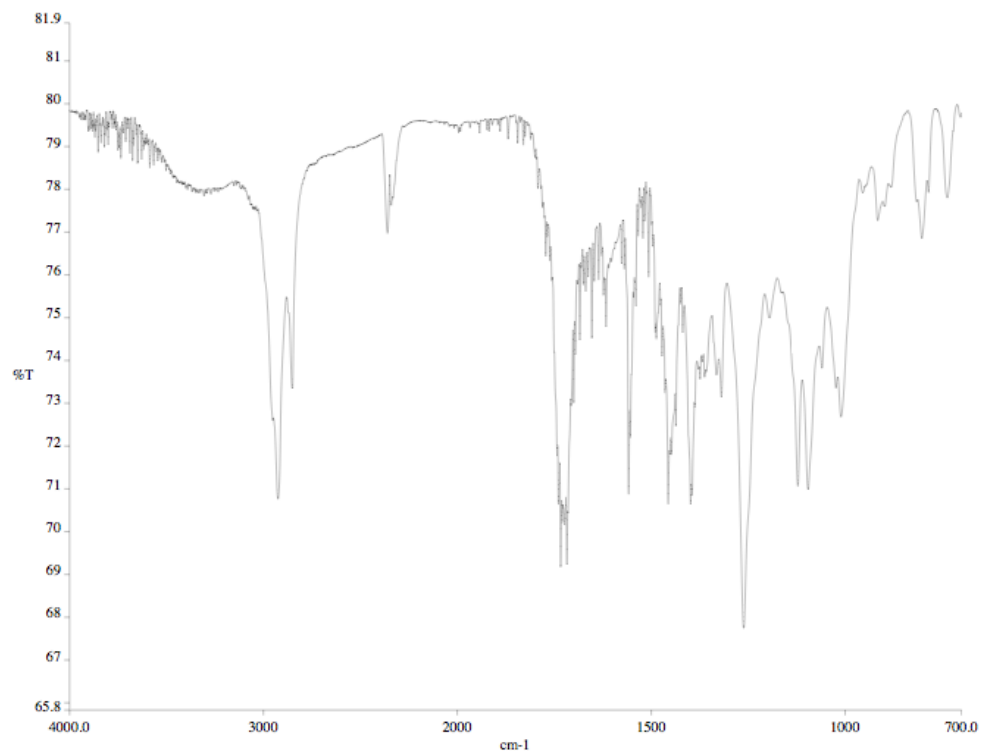
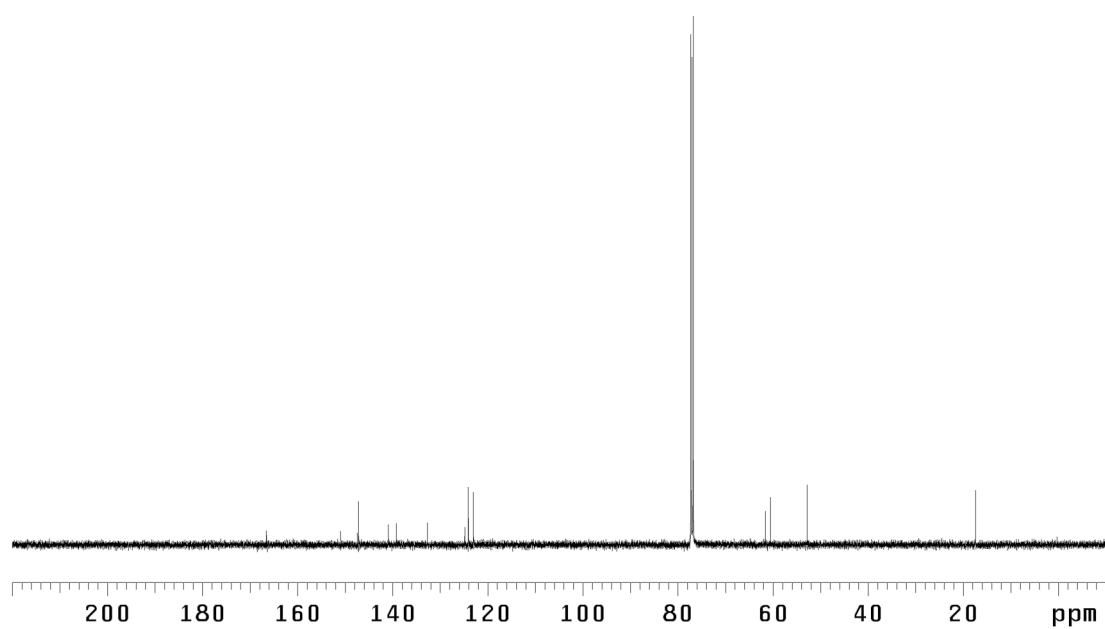
Figure A2.3.1 ^1H NMR (500 MHz, CDCl_3) of compound 434

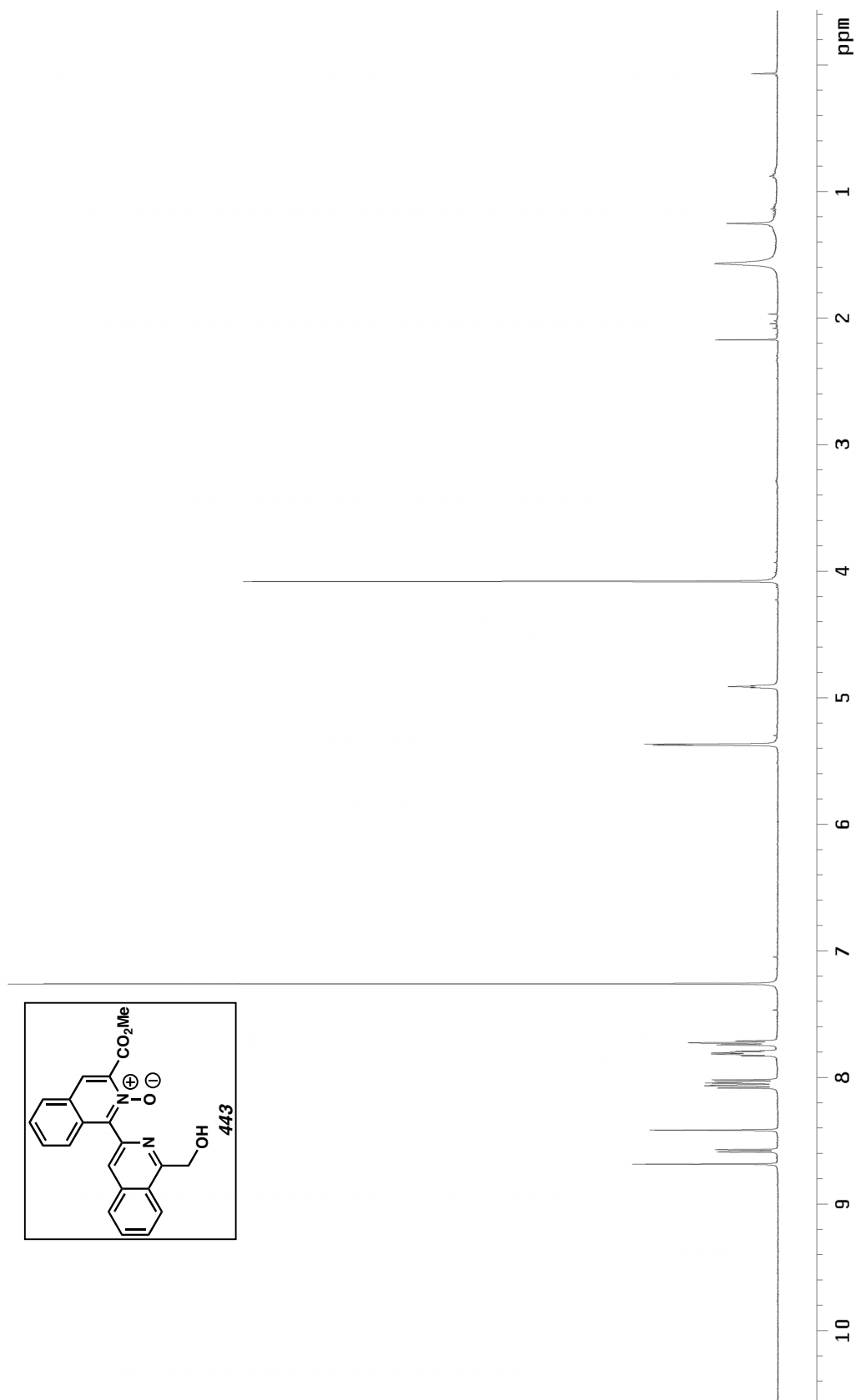
Figure A2.3.2 Infrared spectrum (thin film/NaCl) of compound **434**Figure A2.3.3 ¹³C NMR (125 MHz, CDCl₃) of compound **434**

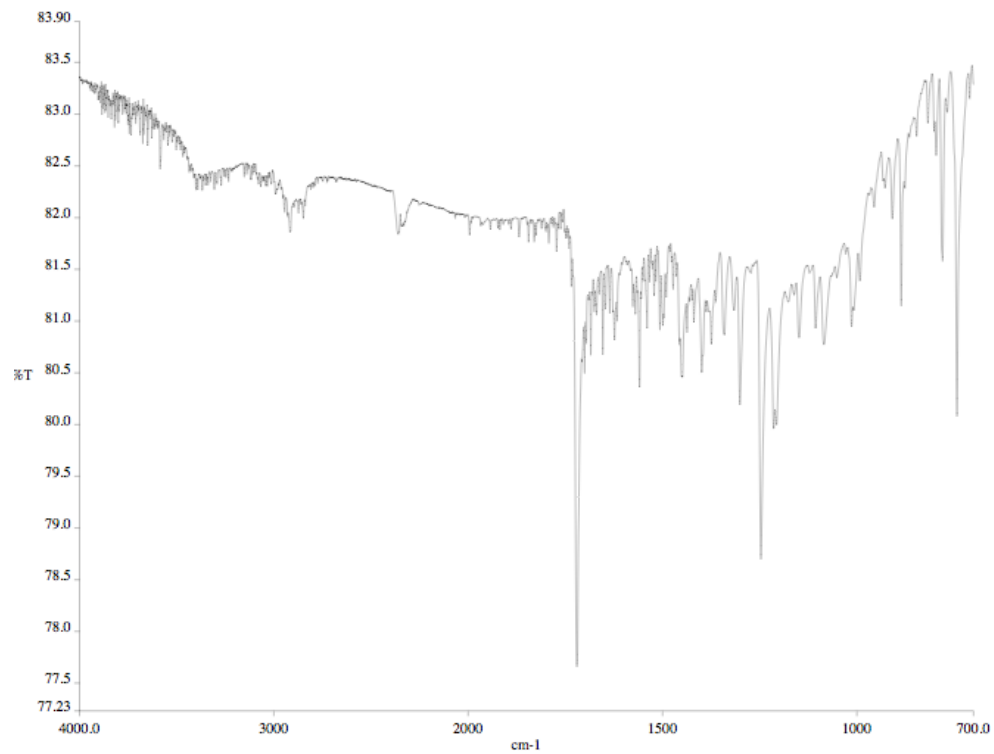
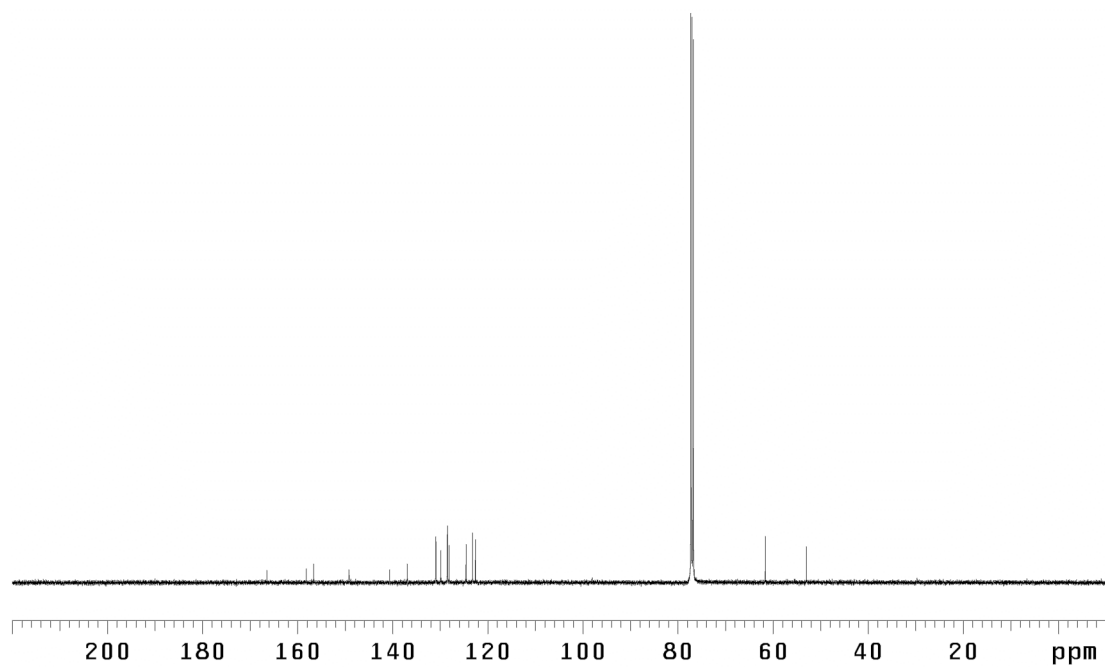
Figure A2.4.1 ¹H NMR (500 MHz, CDCl₃) of compound 439

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 ^1H NMR (500 MHz, CDCl_3) of compound 474

Figure A2.5.2 Infrared spectrum (thin film/NaCl) of compound **474**Figure A2.5.3 ¹³C NMR (125 MHz, CDCl₃) of compound **474**

Figure A2.6.1 ¹H NMR (500 MHz, CDCl₃) of compound 443

Figure A2.6.2 Infrared spectrum (thin film/NaCl) of compound **443**Figure A2.6.3 ¹³C NMR (125 MHz, CDCl₃) of compound **443**

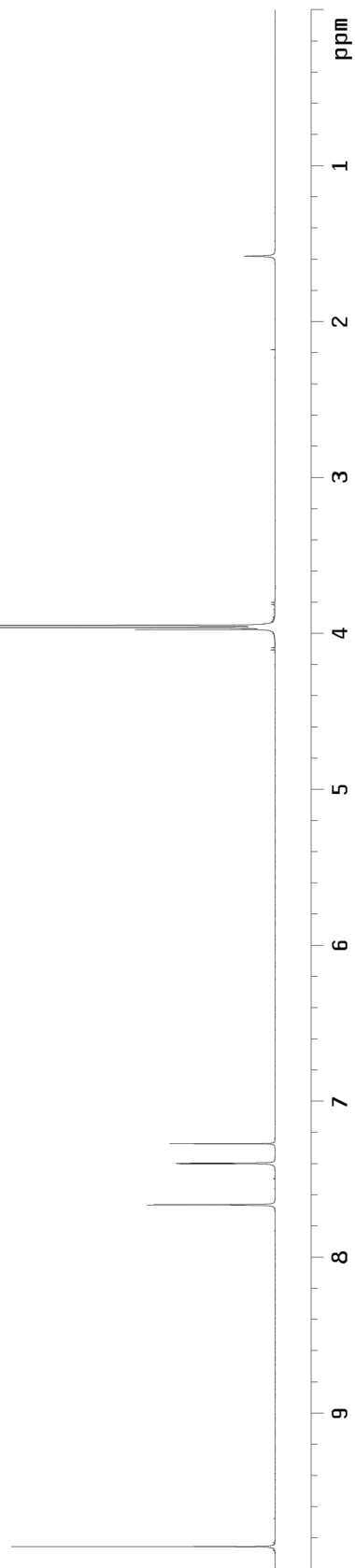
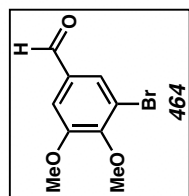
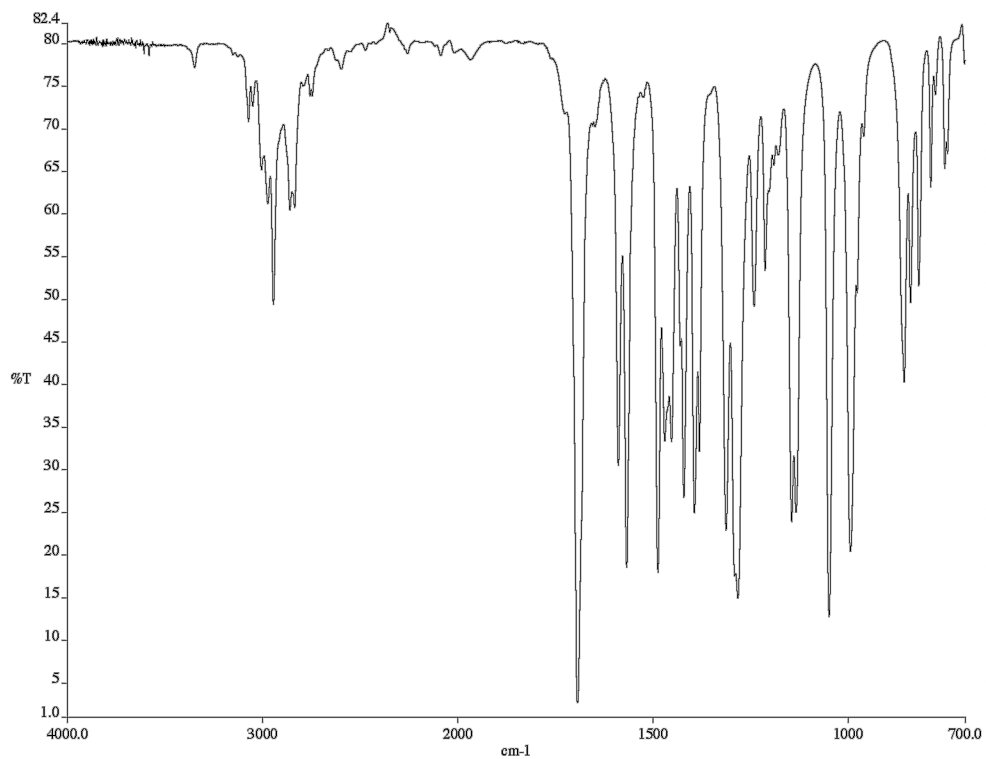
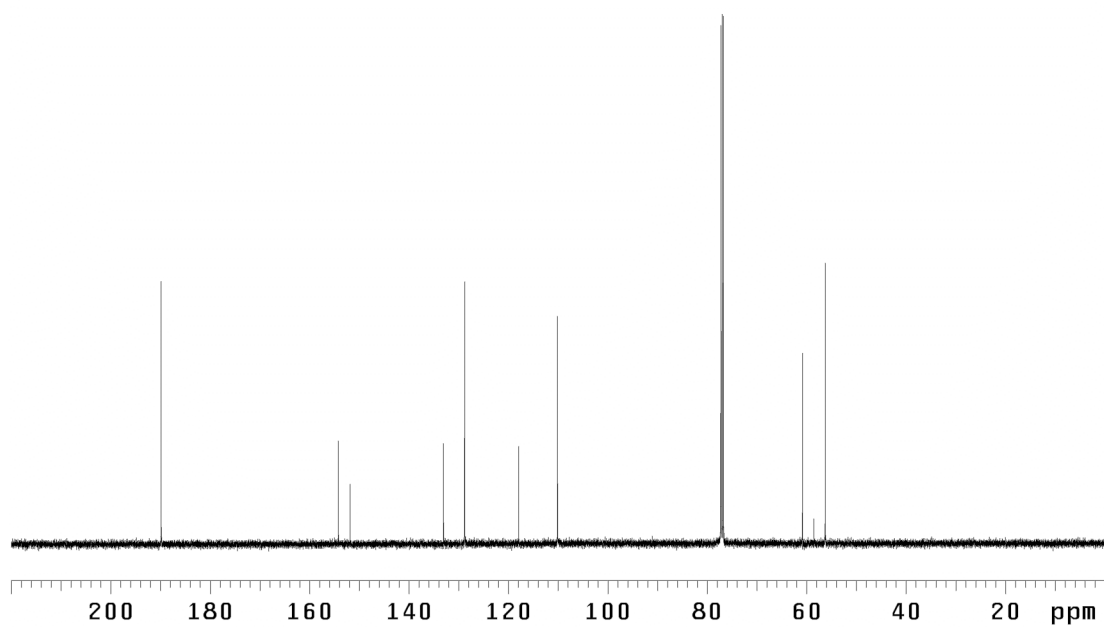
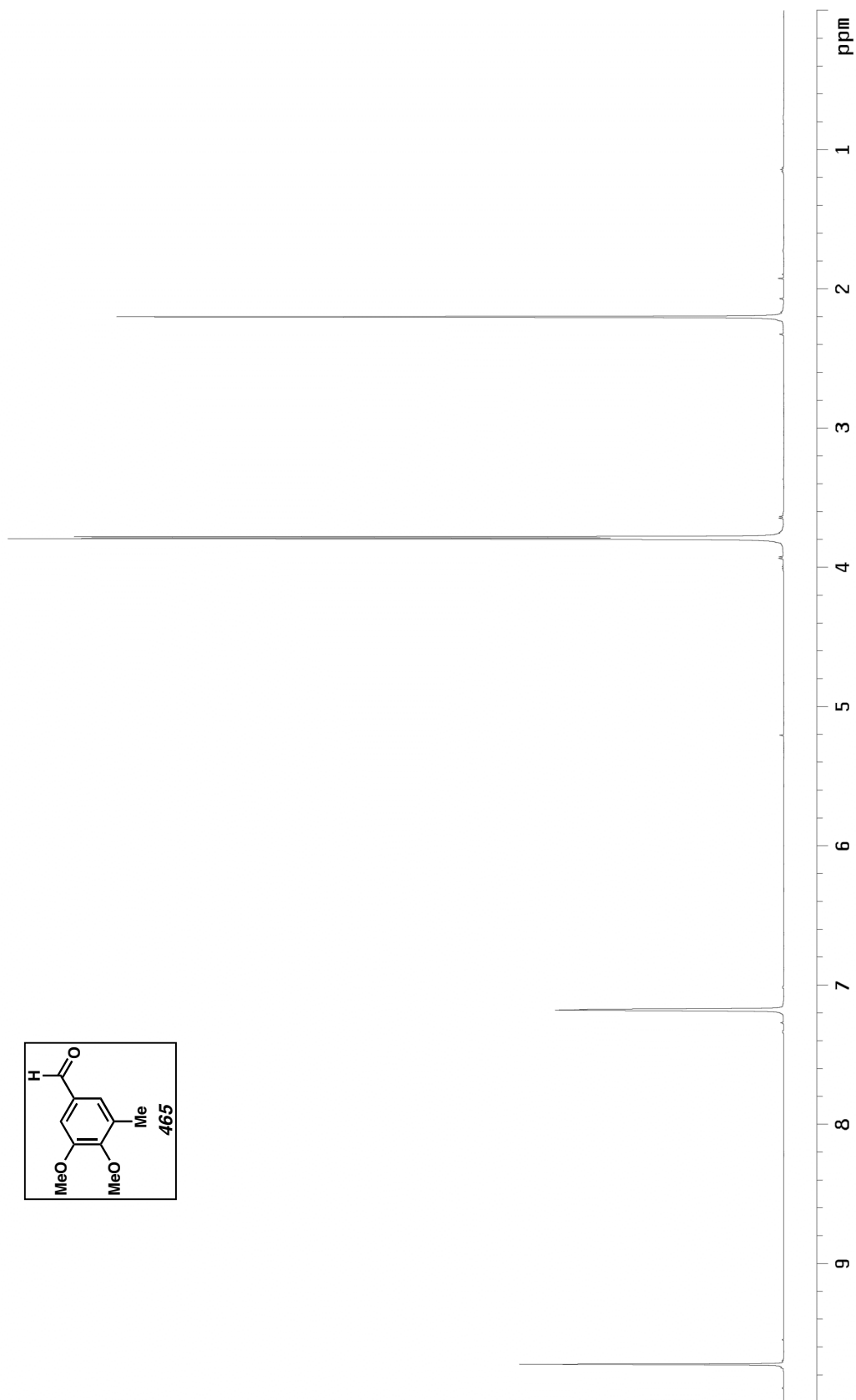
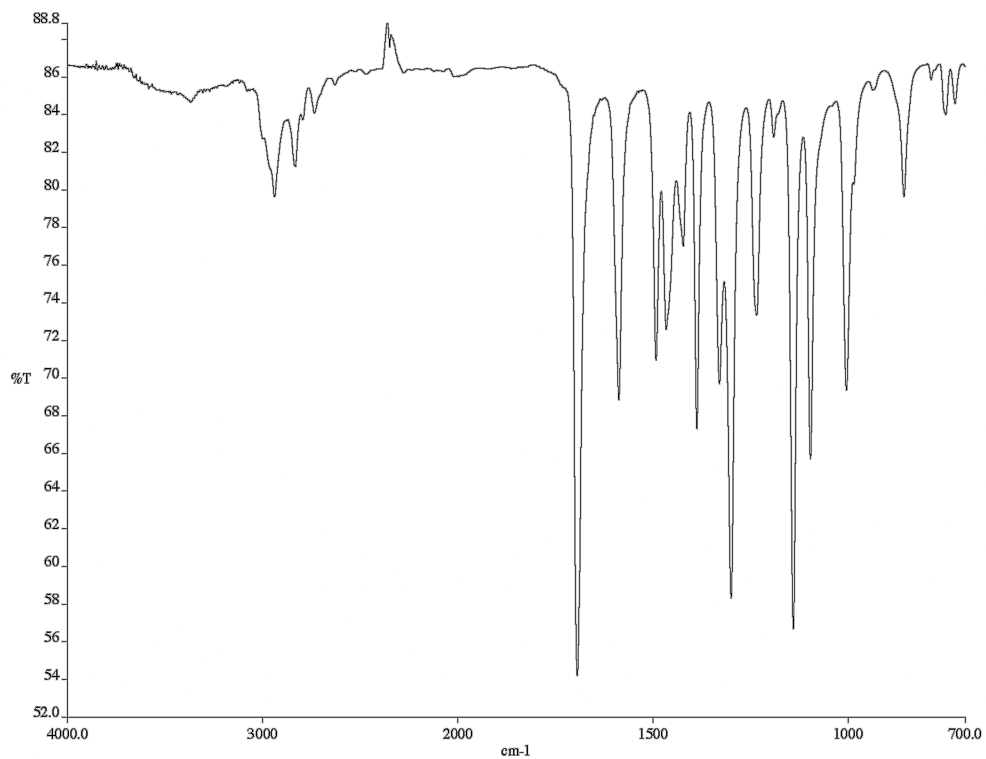
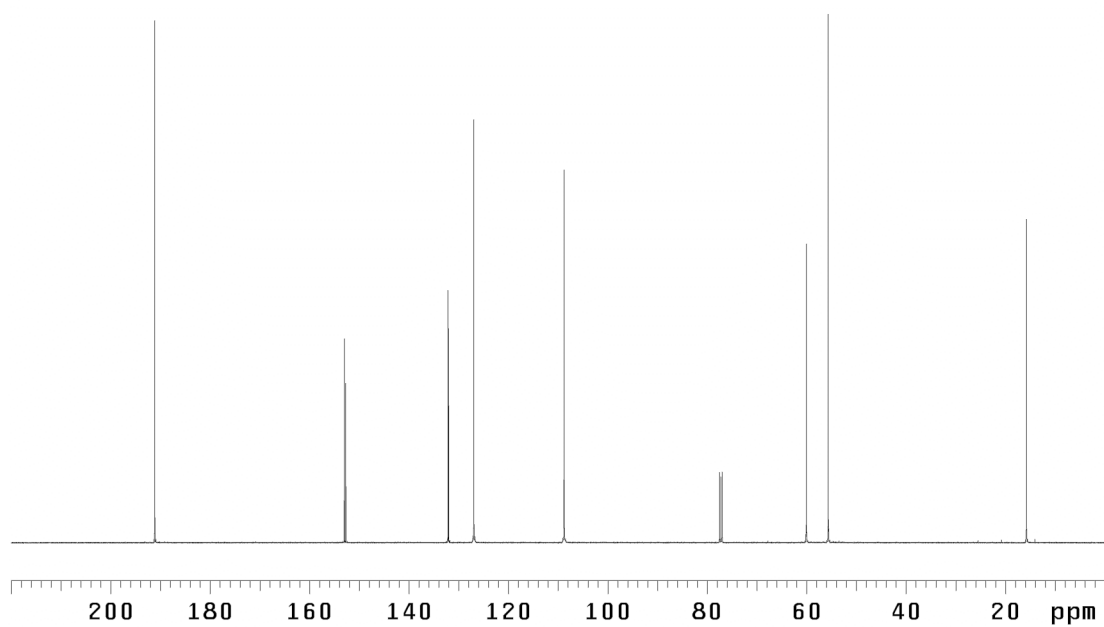
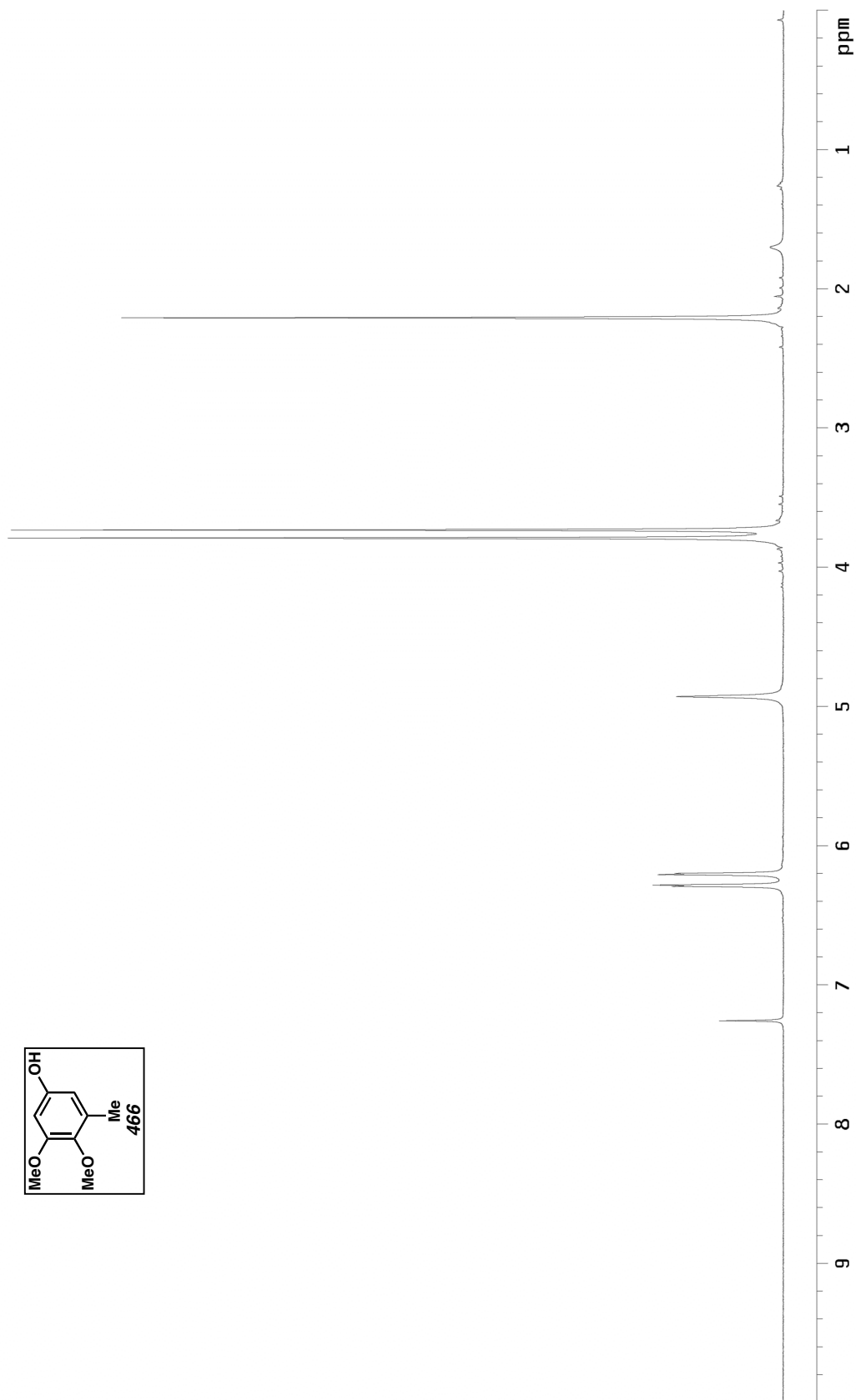


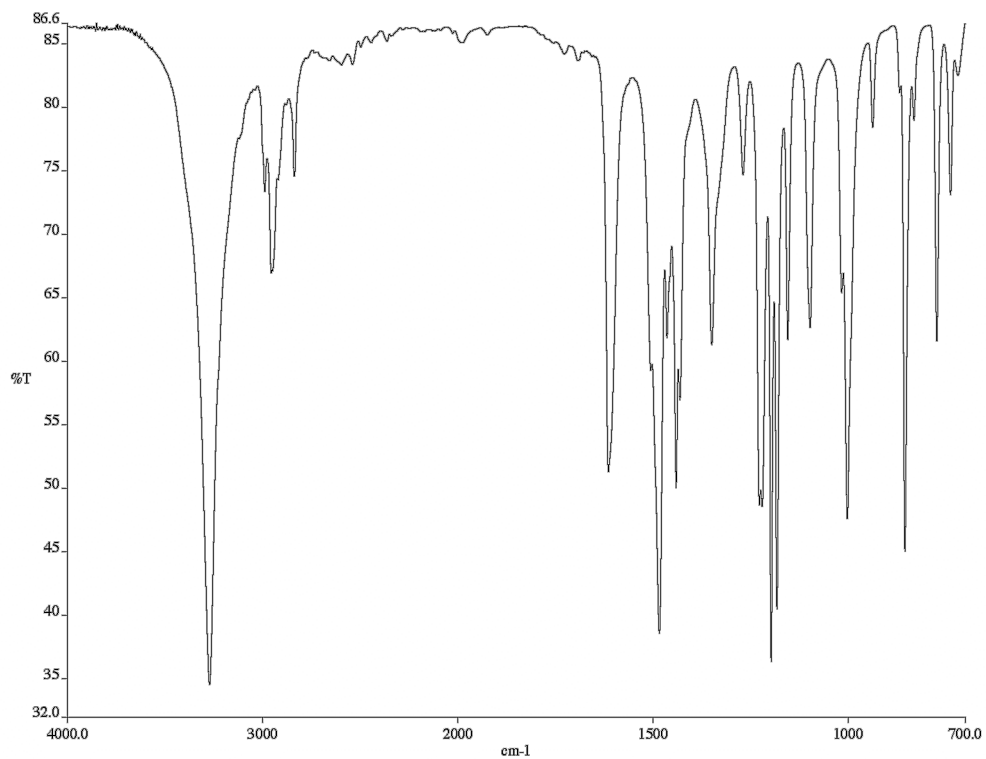
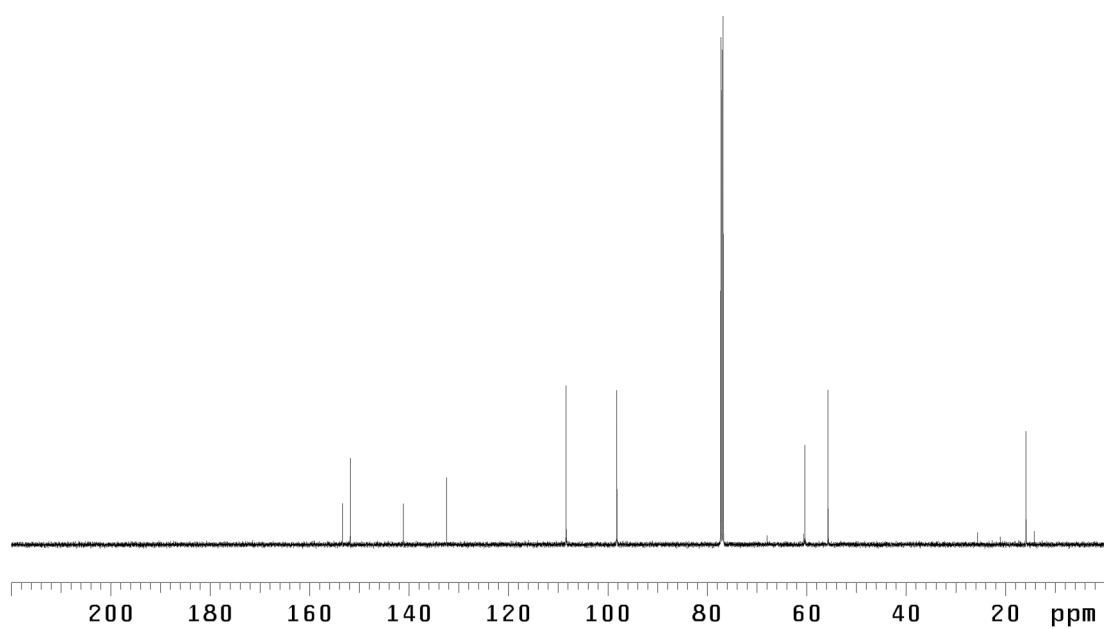
Figure A2.7.1 ¹H NMR (500 MHz, CDCl₃) of compound **464**

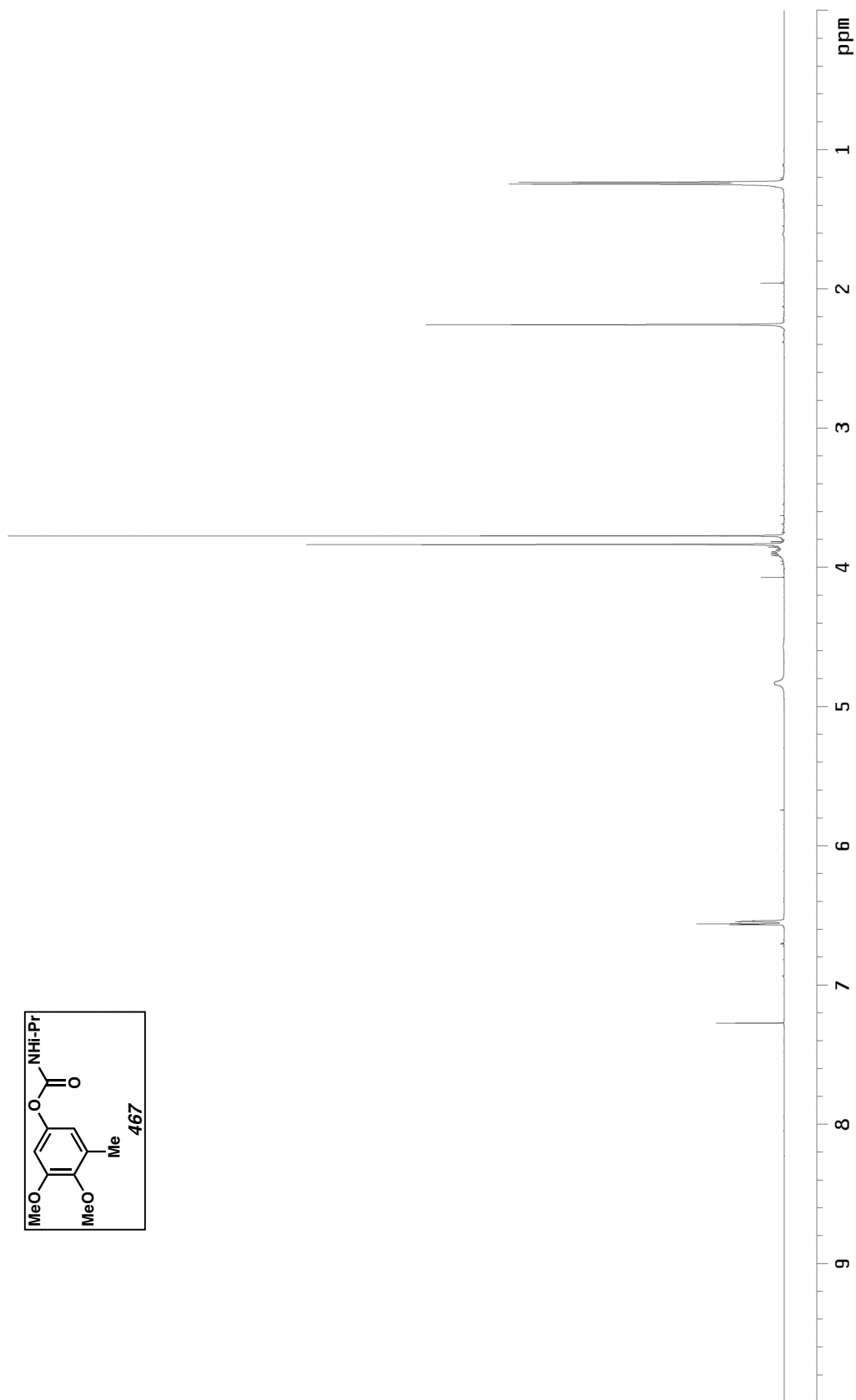
Figure A2.7.2 Infrared spectrum (thin film/NaCl) of compound **464**Figure A2.7.3 ¹³C NMR (125 MHz, CDCl₃) of compound **464**

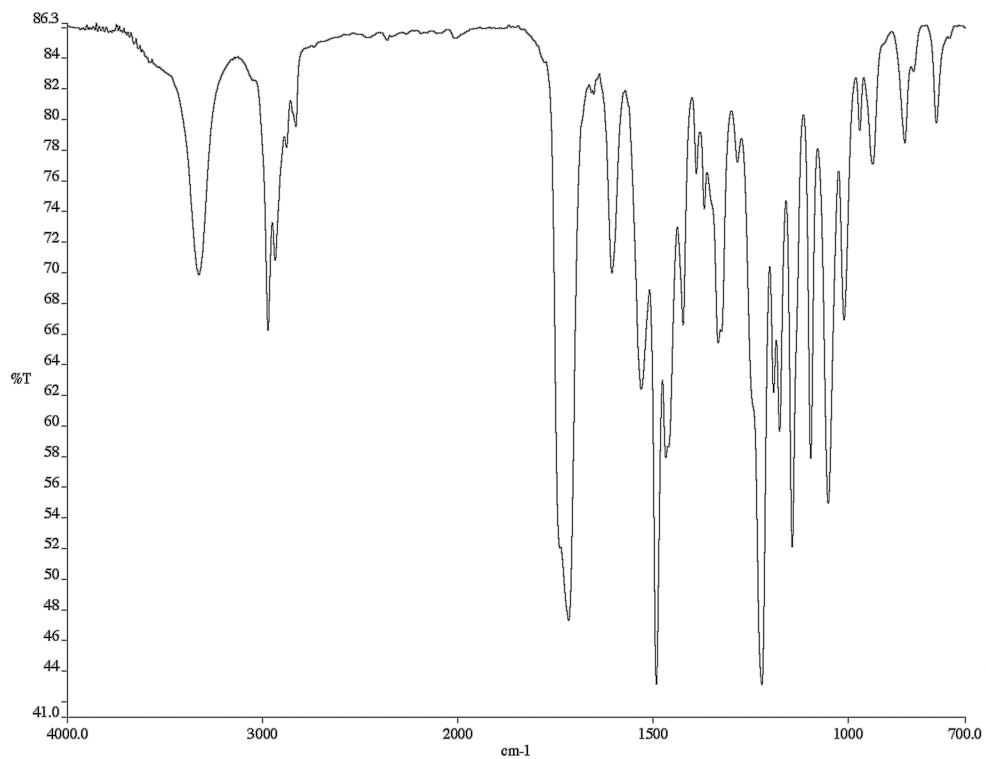
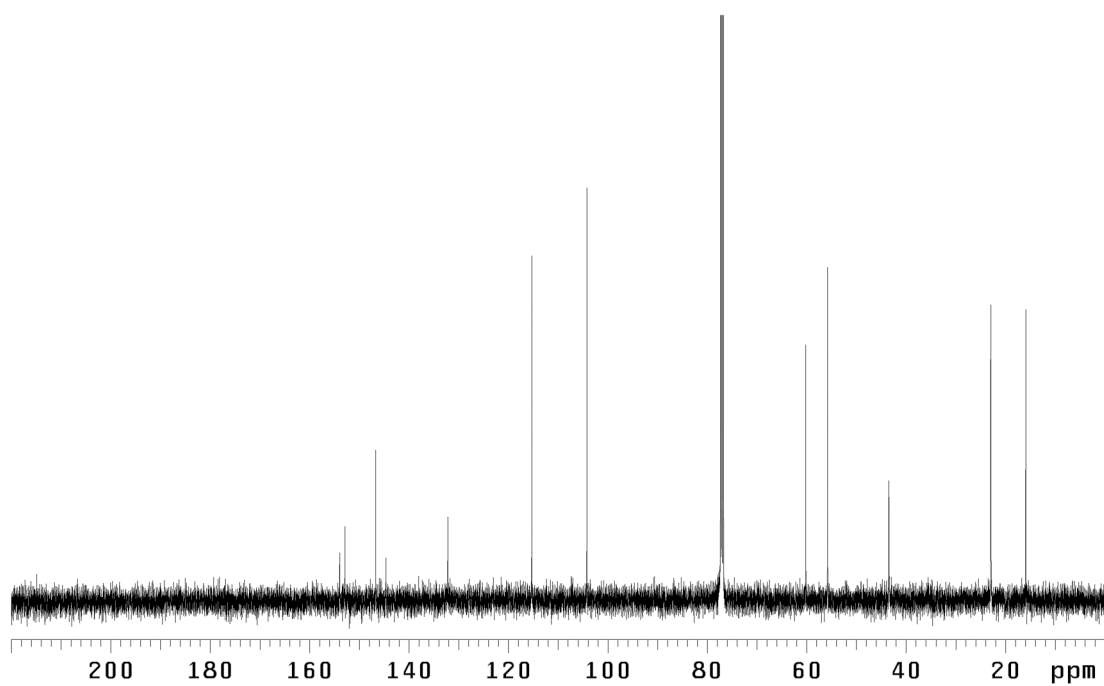
Figure A2.8.1 ^1H NMR (500 MHz, CDCl_3) of compound 465

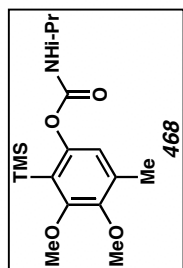
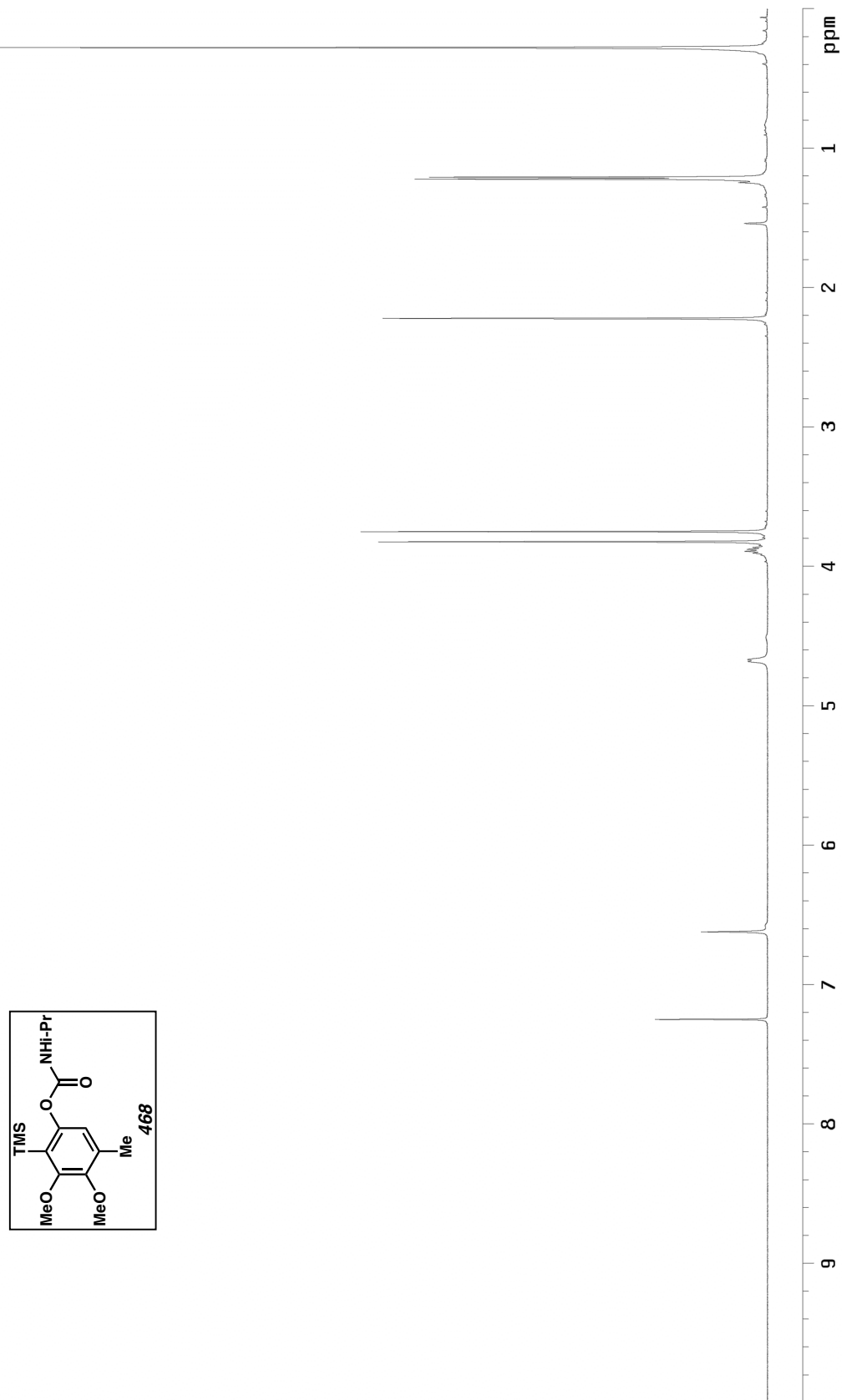
Figure A2.8.2 Infrared spectrum (thin film/NaCl) of compound **465**Figure A2.8.3 ¹³C NMR (125 MHz, CDCl₃) of compound **465**

Figure A2.9.1 ^1H NMR (500 MHz, CDCl_3) of compound 466

Figure A2.9.2 Infrared spectrum (thin film/NaCl) of compound **466**Figure A2.9.3 ¹³C NMR (125 MHz, CDCl₃) of compound **466**

Figure A2.10.1 ¹H NMR (500 MHz, CDCl₃) of compound 467

Figure A2.10.2 Infrared spectrum (thin film/NaCl) of compound **467**Figure A2.10.3 ¹³C NMR (125 MHz, CDCl₃) of compound **467**

Figure A2.11.1 ^1H NMR (500 MHz, CDCl_3) of compound 468

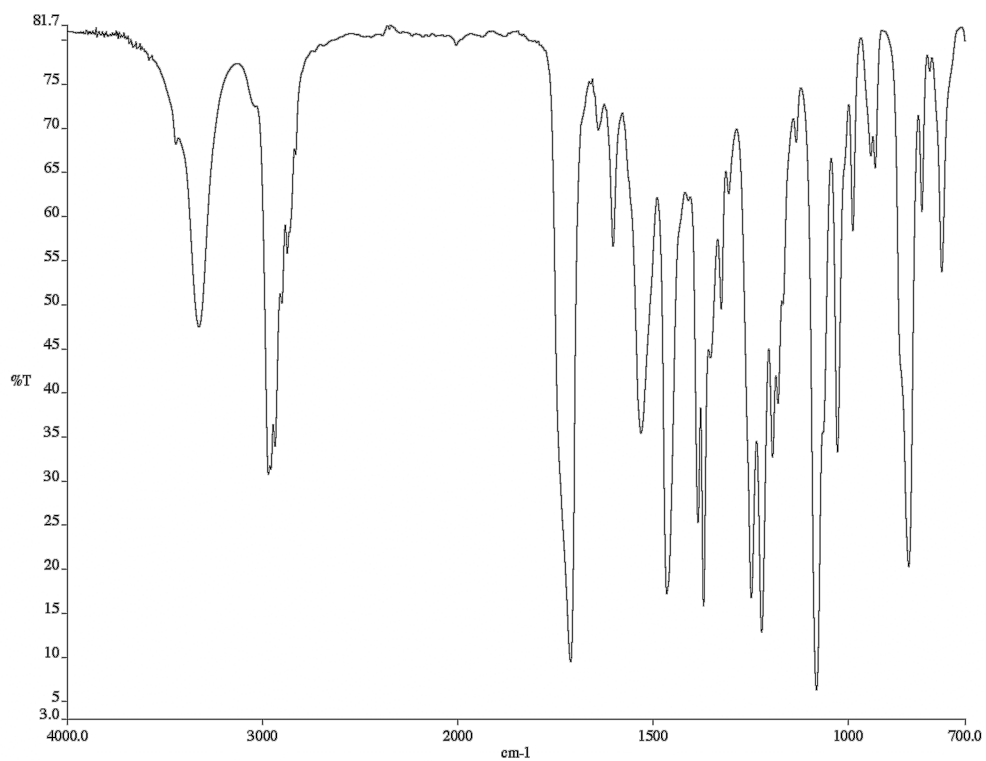


Figure A2.11.2 Infrared spectrum (thin film/NaCl) of compound **468**

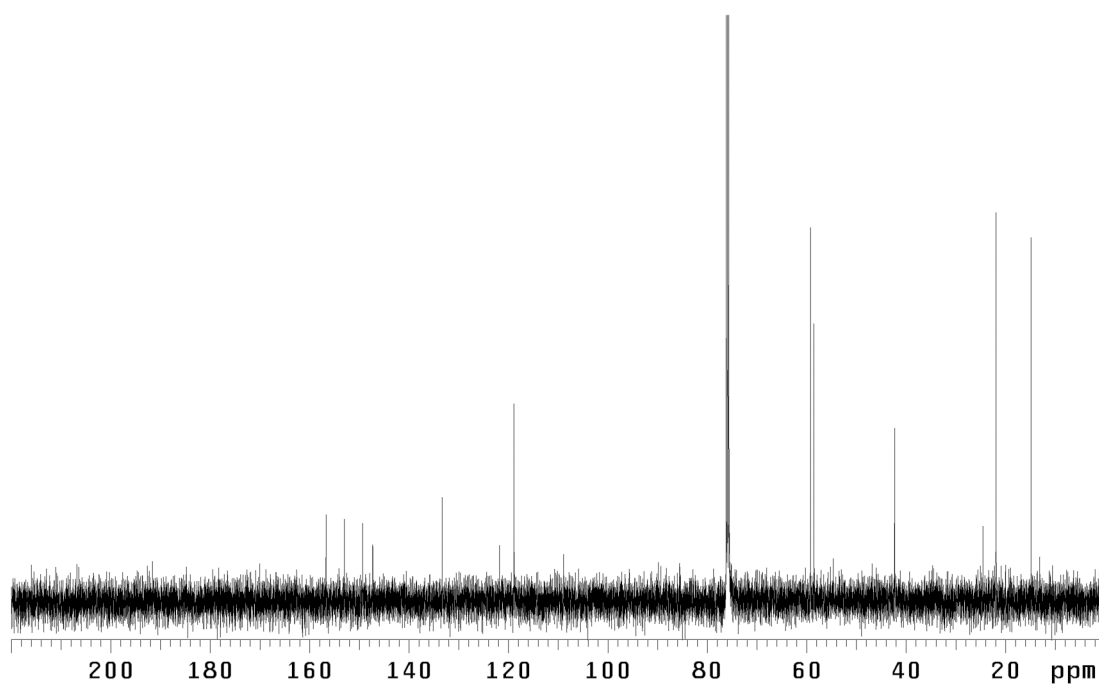
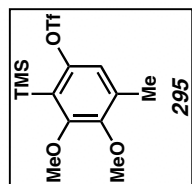
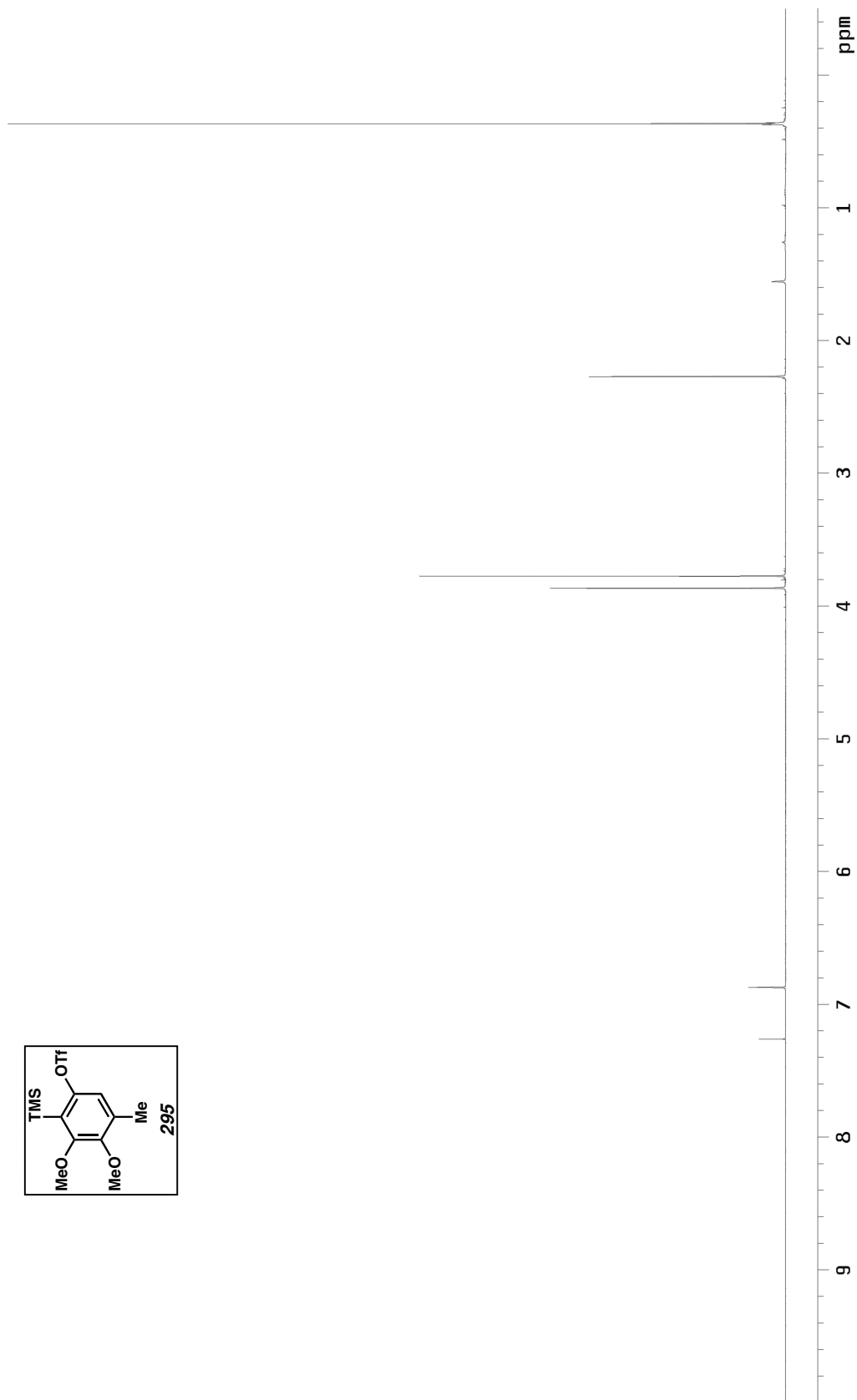
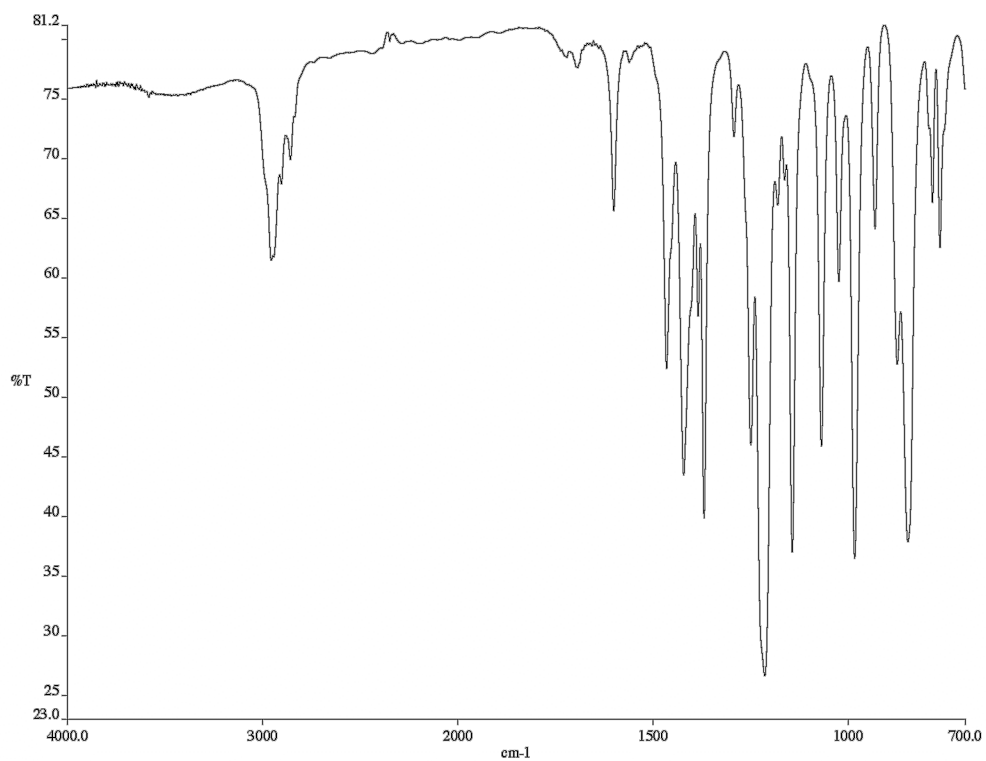
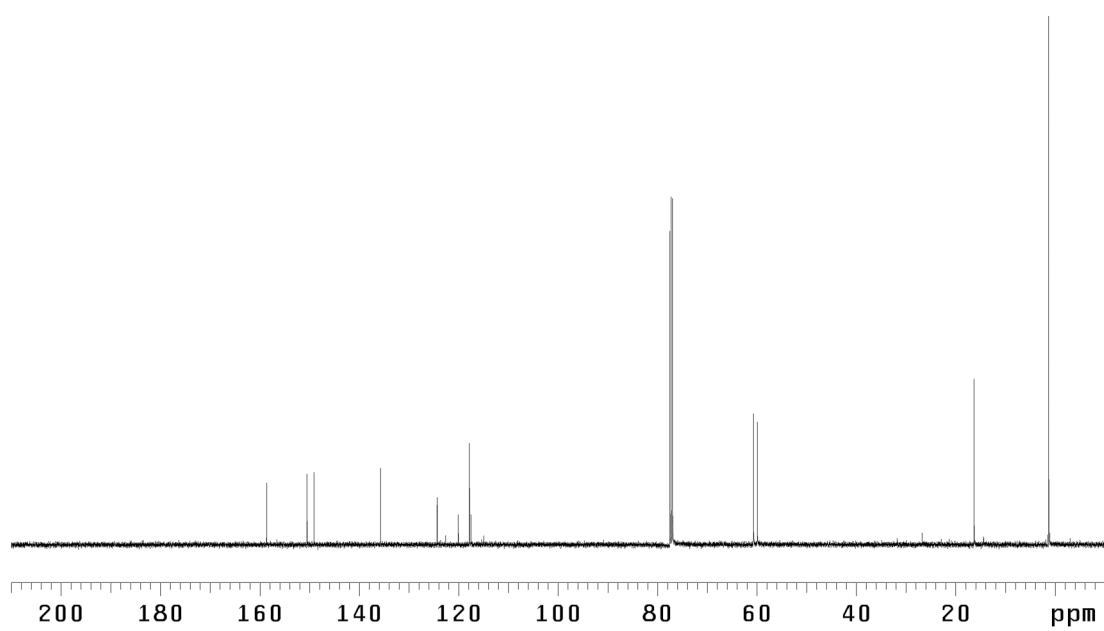
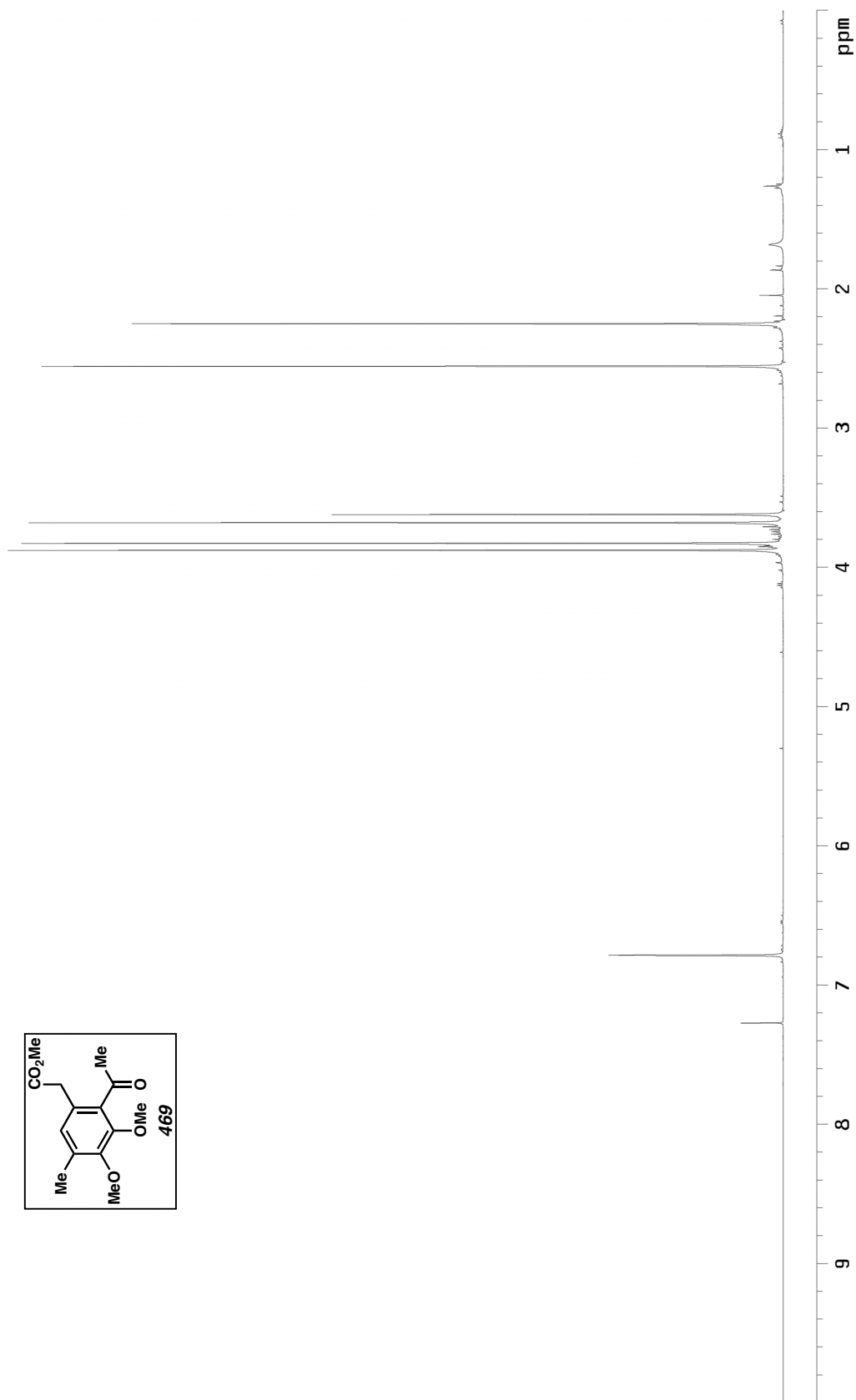
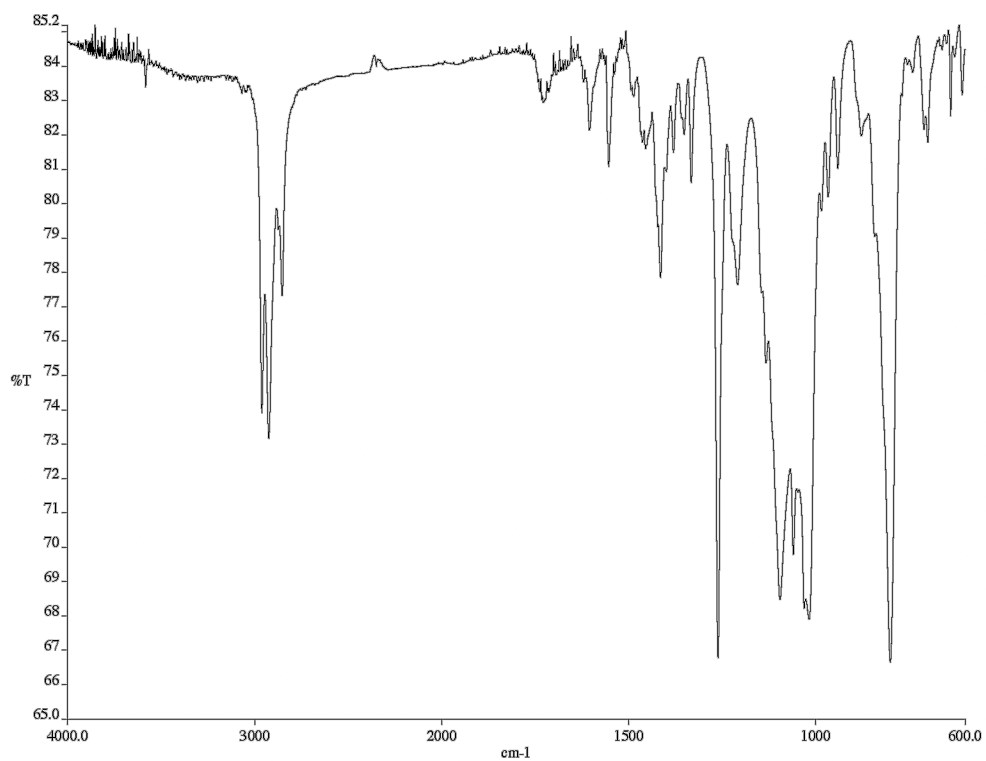
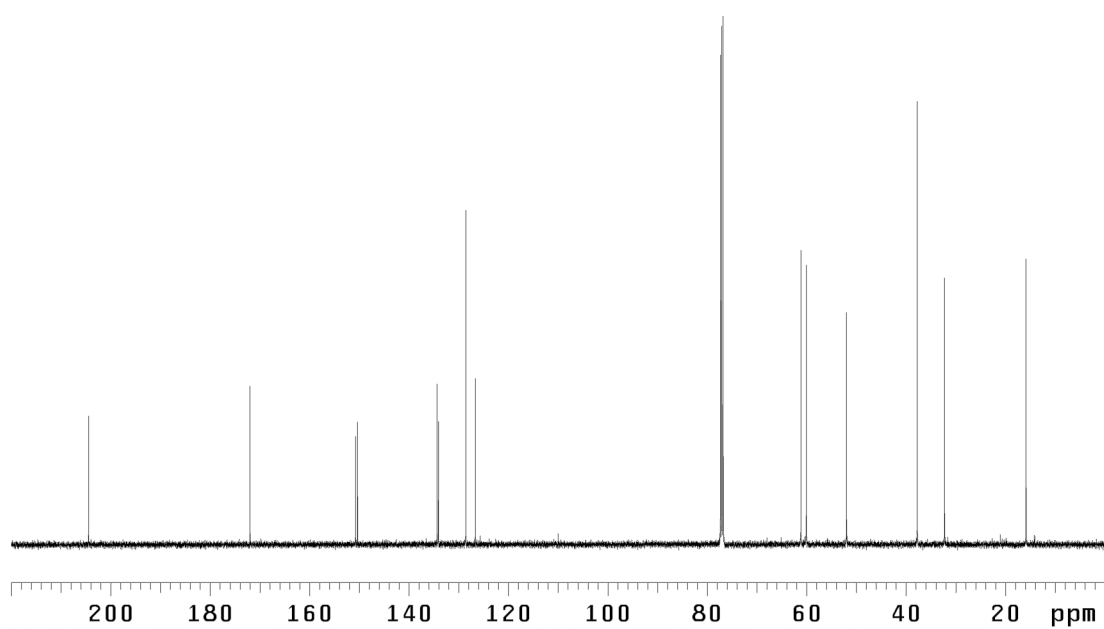


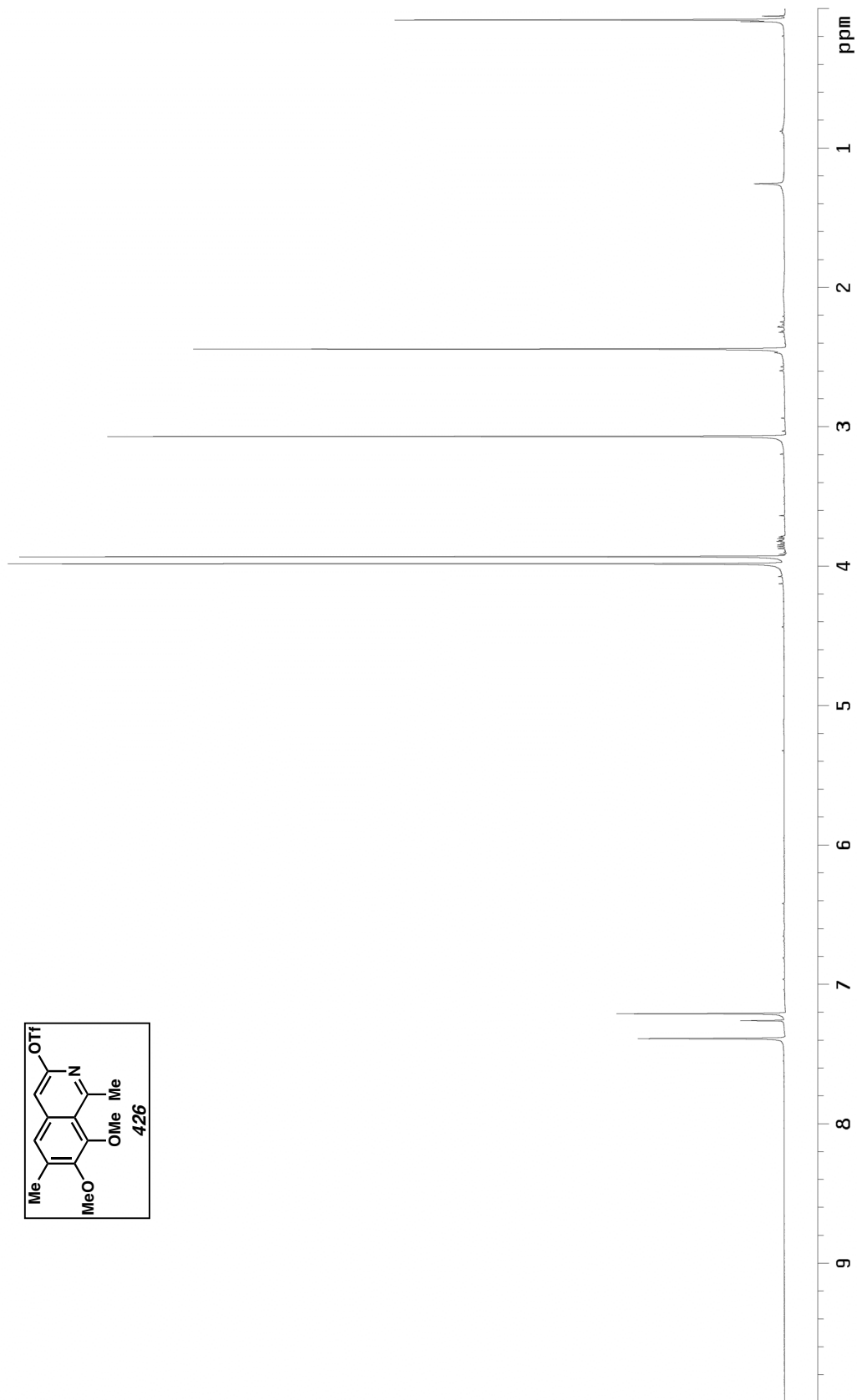
Figure A2.11.3 ¹³C NMR (125 MHz, CDCl₃) of compound **468**

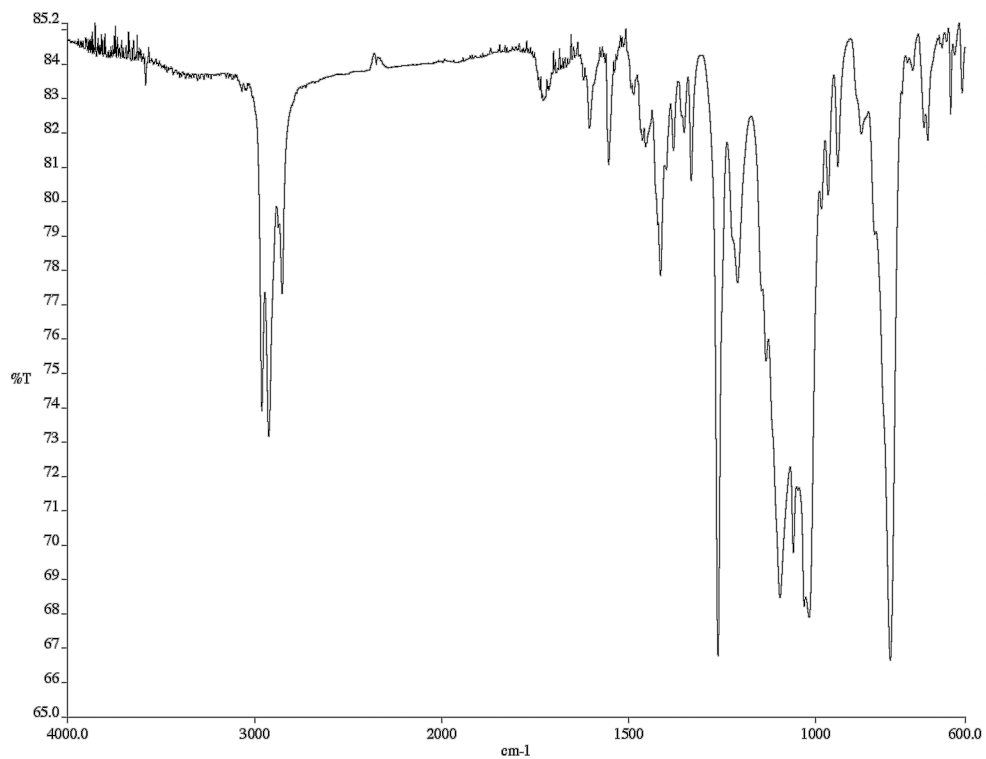
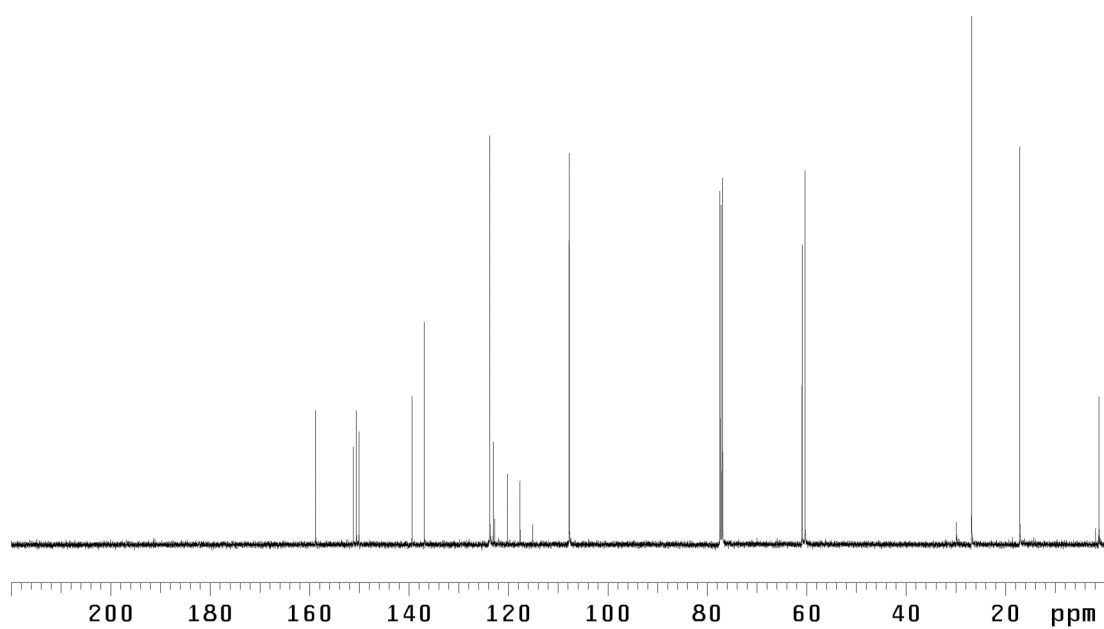
Figure A2.12.1 ^1H NMR (500 MHz, CDCl_3) of compound 468

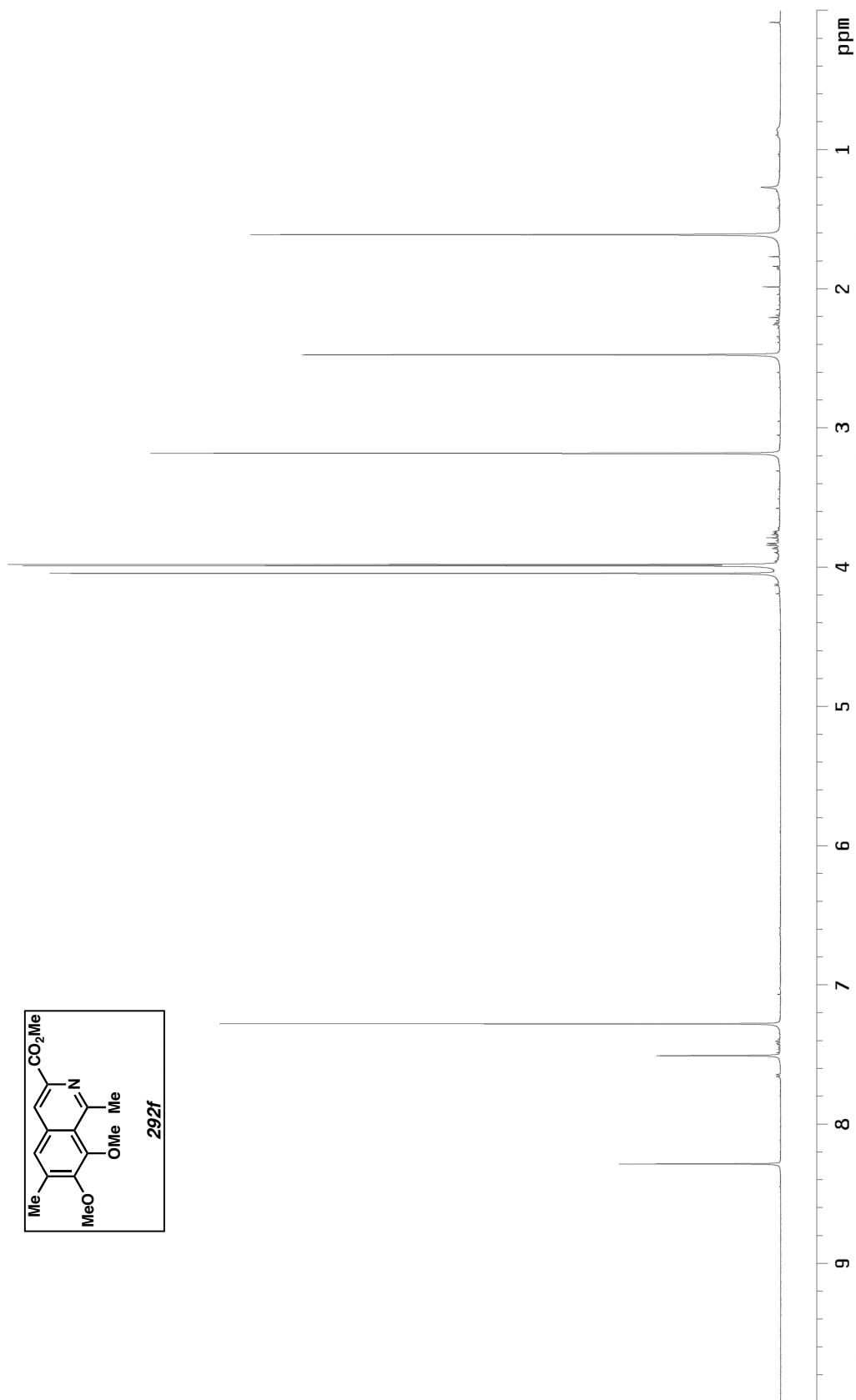
Figure A2.12.2 Infrared spectrum (thin film/NaCl) of compound **295**Figure A2.12.3 ¹³C NMR (125 MHz, CDCl₃) of compound **295**

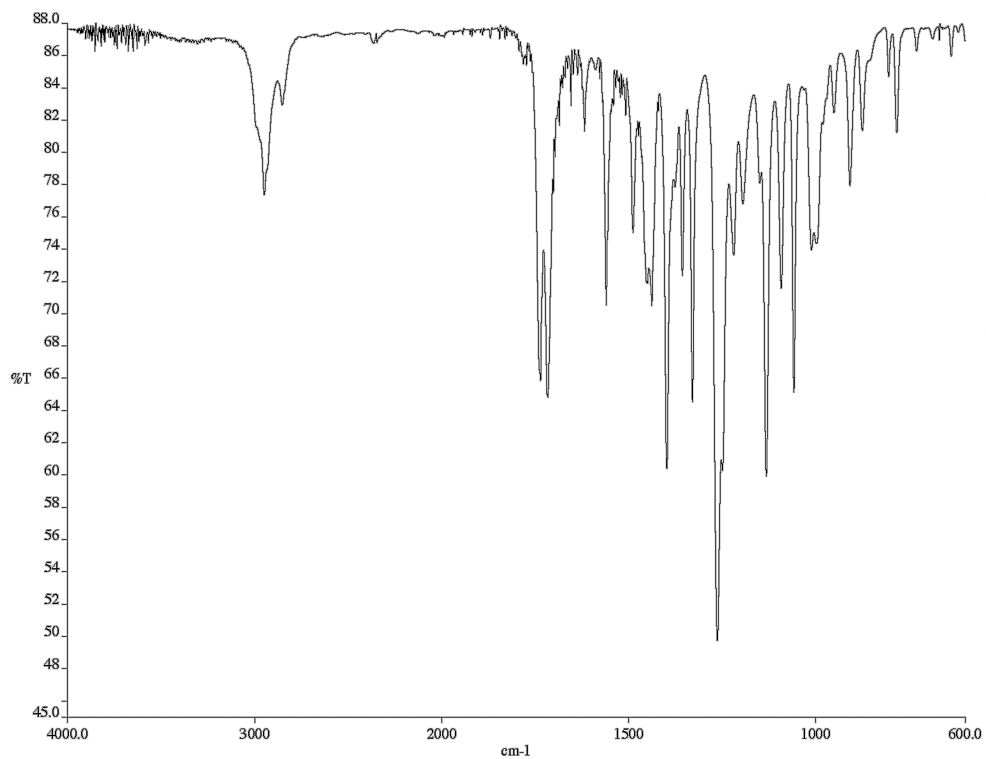
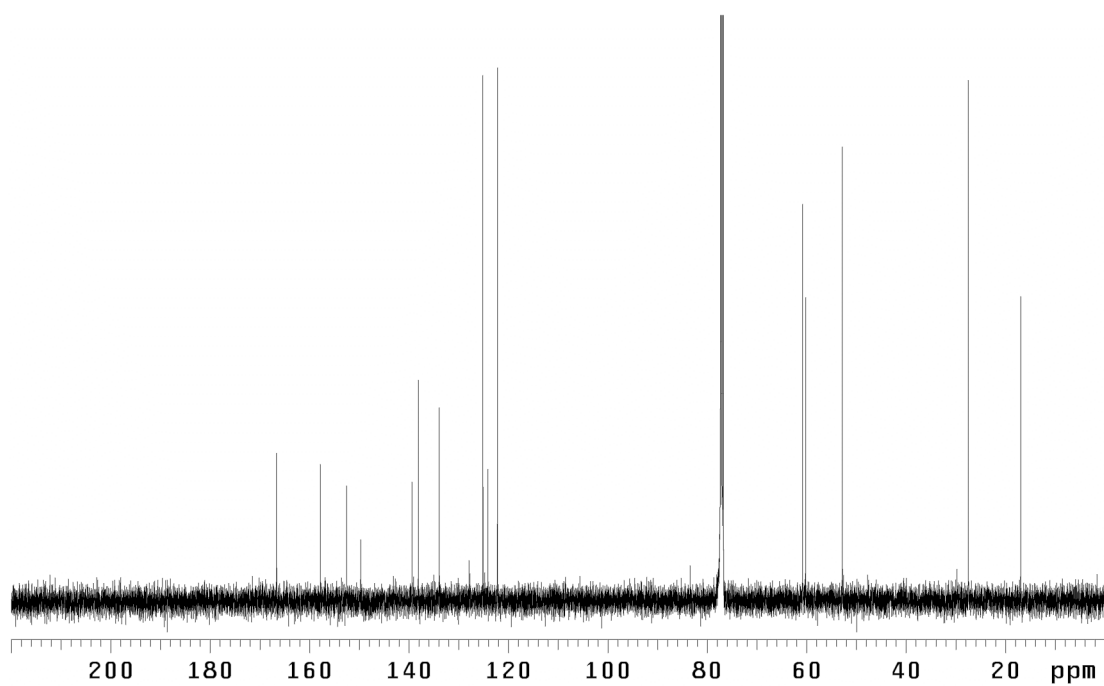
Figure A2.13.1 ^1H NMR (500 MHz, CDCl_3) of compound 469

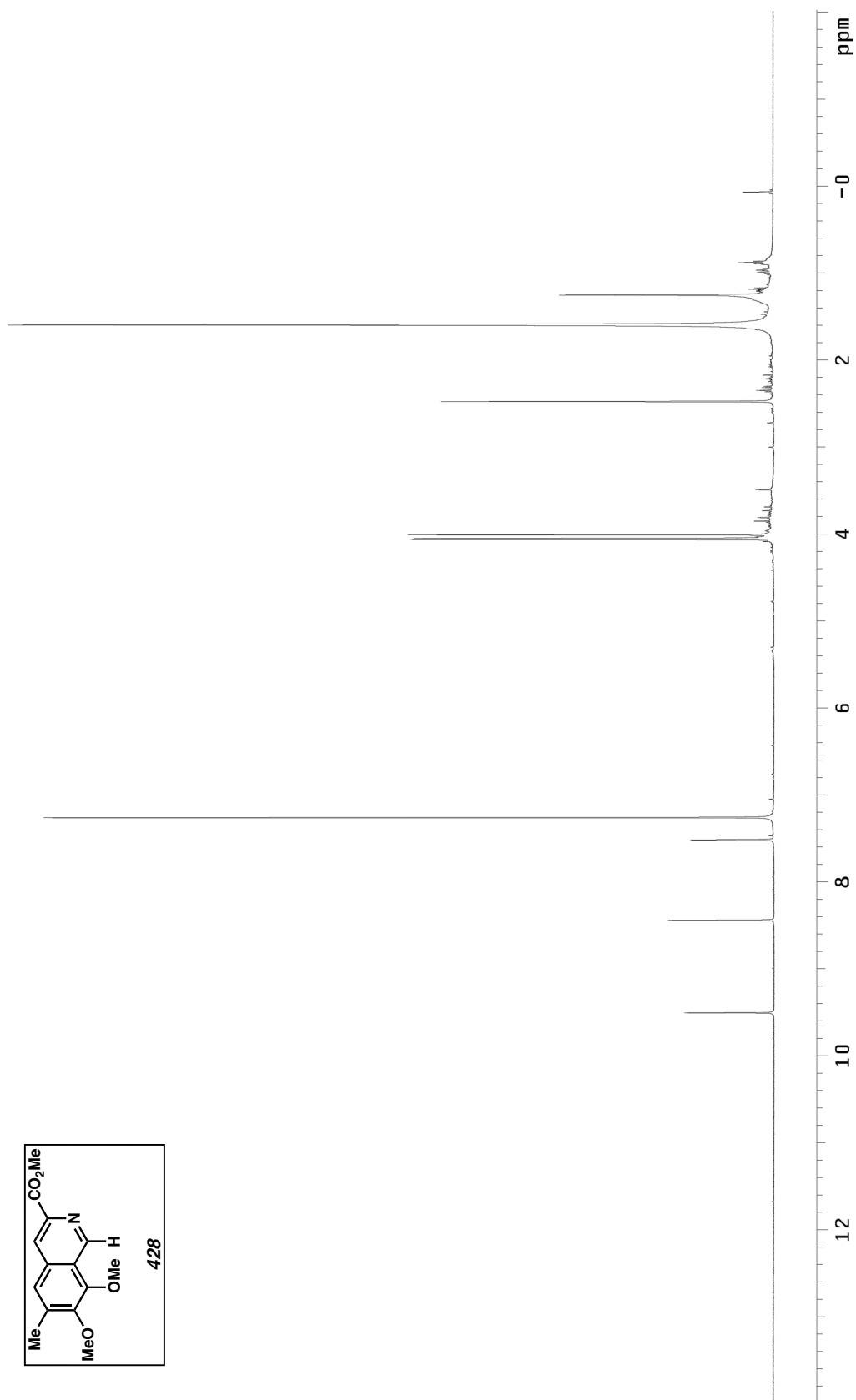
Figure A2.13.2 Infrared spectrum (thin film/NaCl) of compound **469**Figure A2.13.3 ¹³C NMR (125 MHz, CDCl₃) of compound **469**

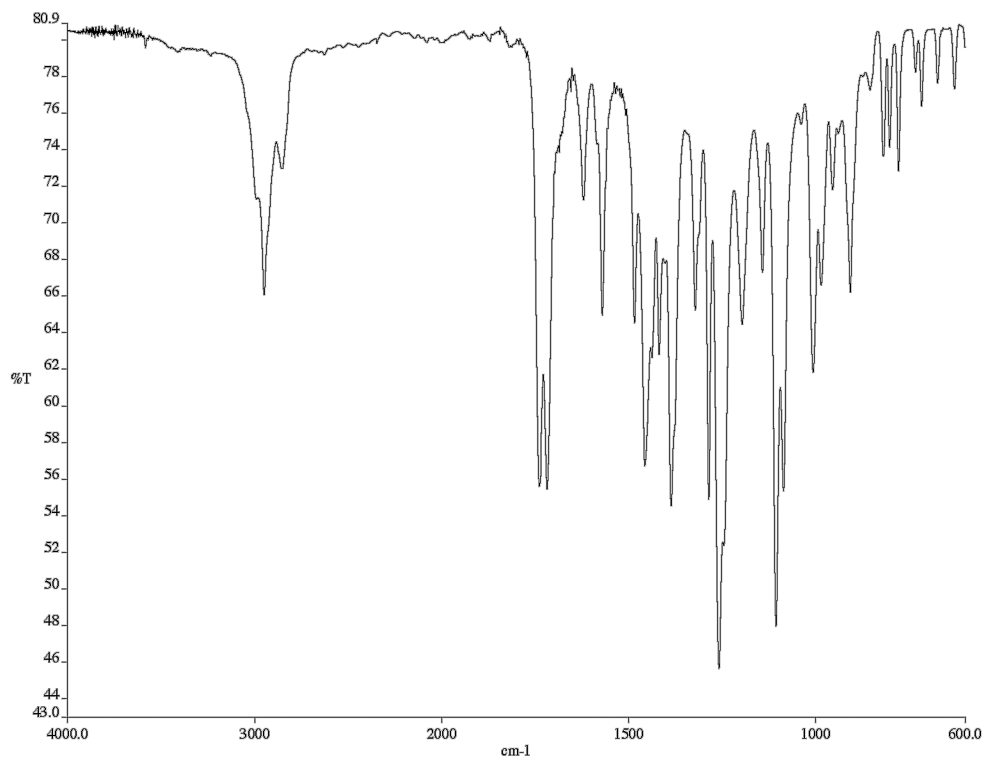
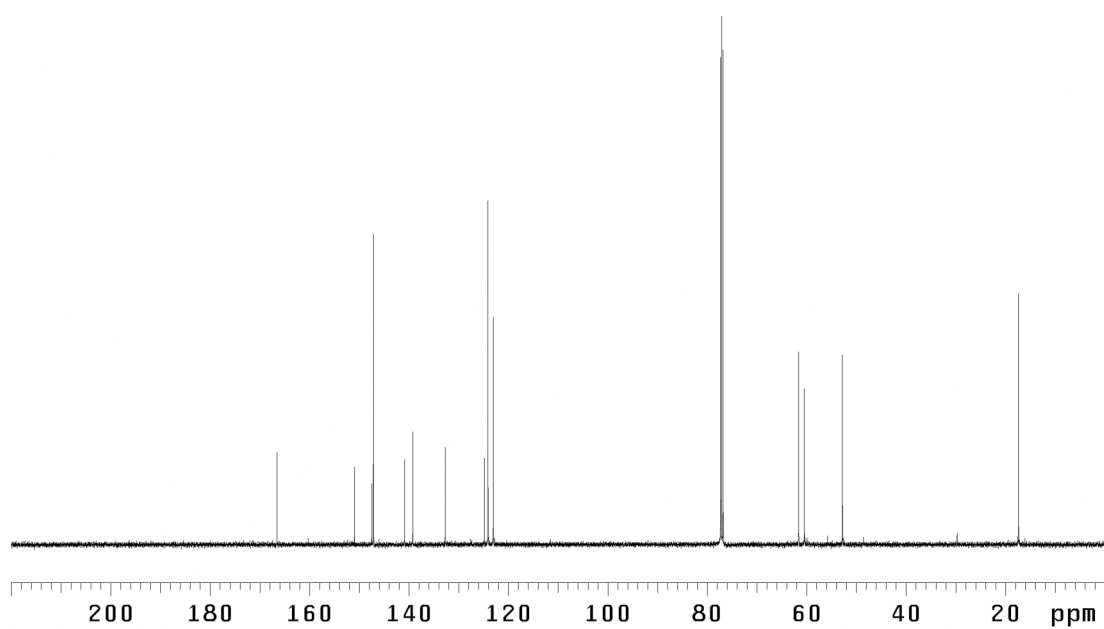
Figure A2.14.1 ^1H NMR (500 MHz, CDCl_3) of compound 426

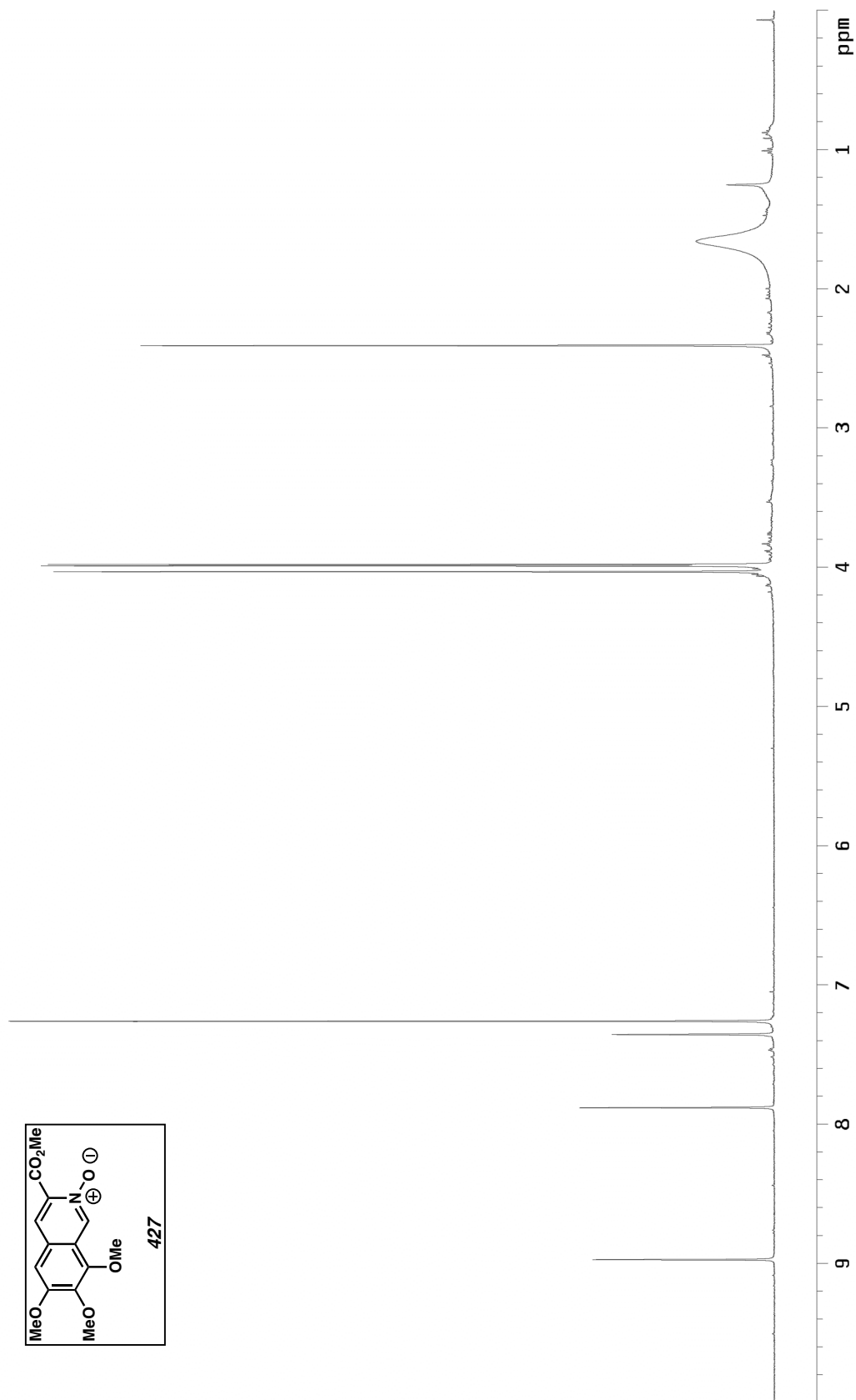
Figure A2.14.2 Infrared spectrum (thin film/NaCl) of compound **426**Figure A2.14.3 ¹³C NMR (125 MHz, CDCl₃) of compound **426**

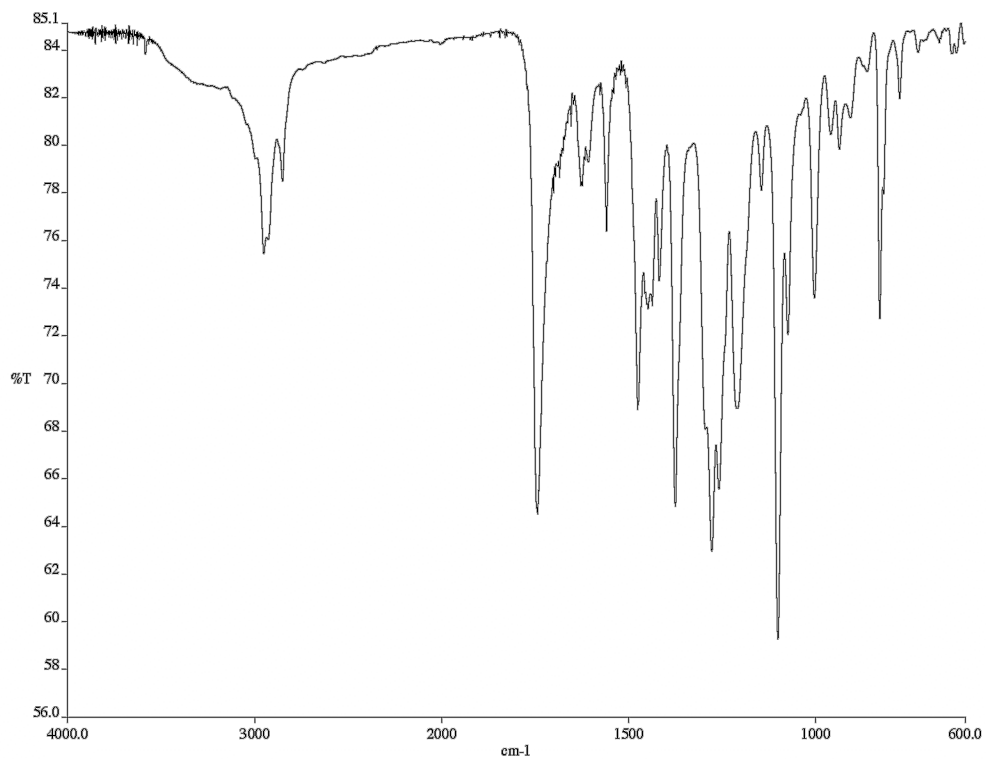
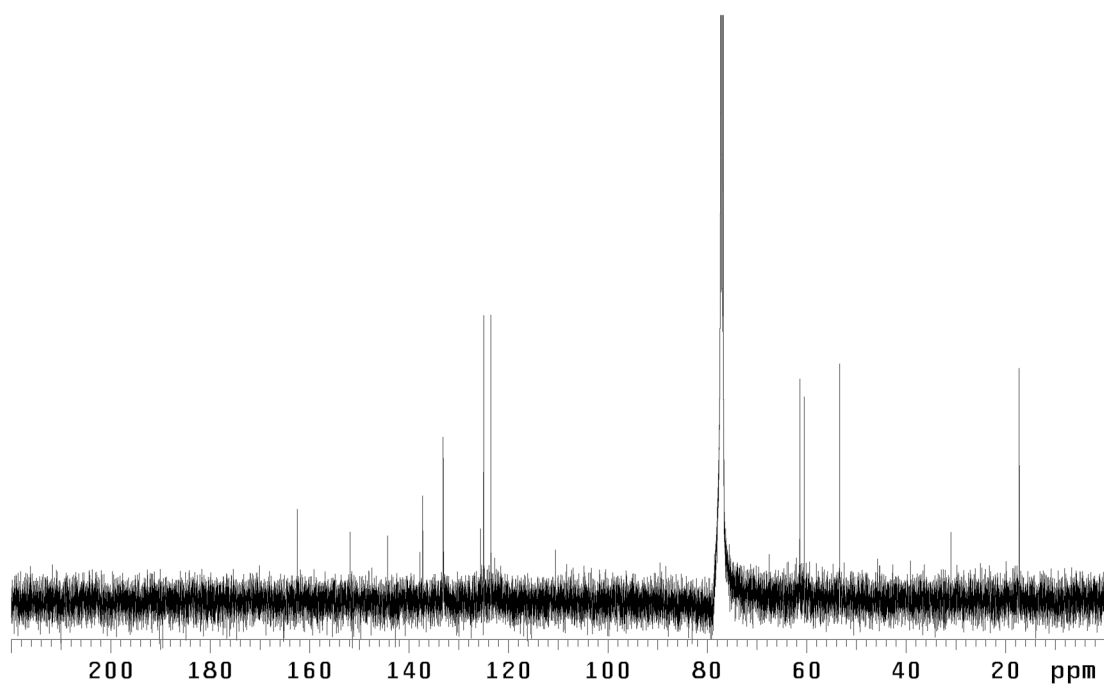
Figure A2.15.1 ¹H NMR (500 MHz, CDCl₃) of compound 292f

Figure A2.15.2 Infrared spectrum (thin film/NaCl) of compound **292f**Figure A2.15.3 ¹³C NMR (125 MHz, CDCl₃) of compound **292f**

Figure A2.16.1 ^1H NMR (500 MHz, CDCl_3) of compound 428

Figure A2.16.2 Infrared spectrum (thin film/NaCl) of compound **428**Figure A2.16.3 ¹³C NMR (125 MHz, CDCl₃) of compound **428**

Figure A2.17.1 ^1H NMR (500 MHz, CDCl_3) of compound 427

Figure A2.17.2 Infrared spectrum (thin film/NaCl) of compound **427**Figure A2.17.3 ¹³C NMR (125 MHz, CDCl₃) of compound **427**