

## APPENDIX SEVEN

### Spectra of Compounds Relevant to Chapter Four

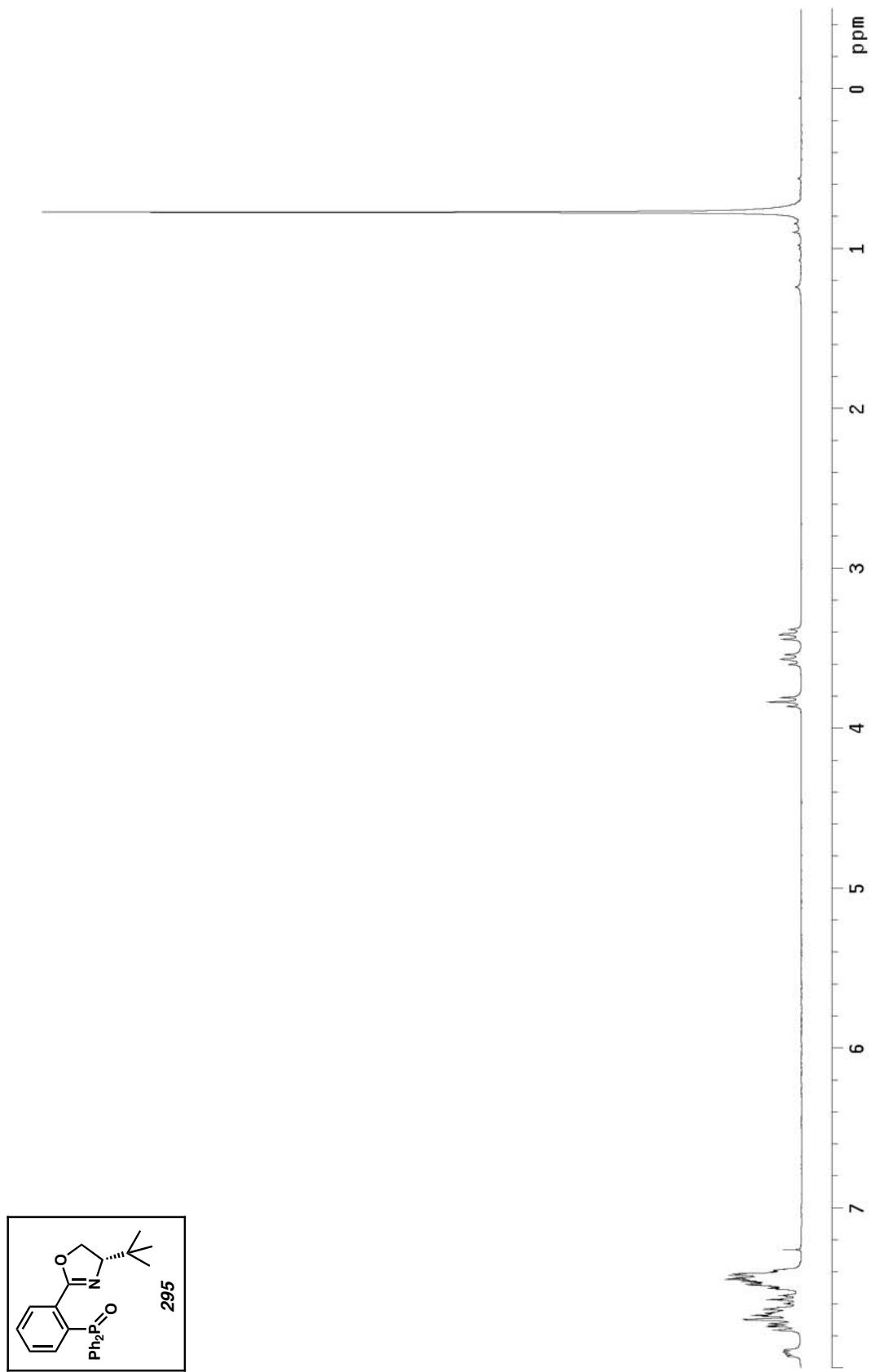


Figure A7.1 <sup>1</sup>H NMR of compound **295** (300 MHz, CDCl<sub>3</sub>)

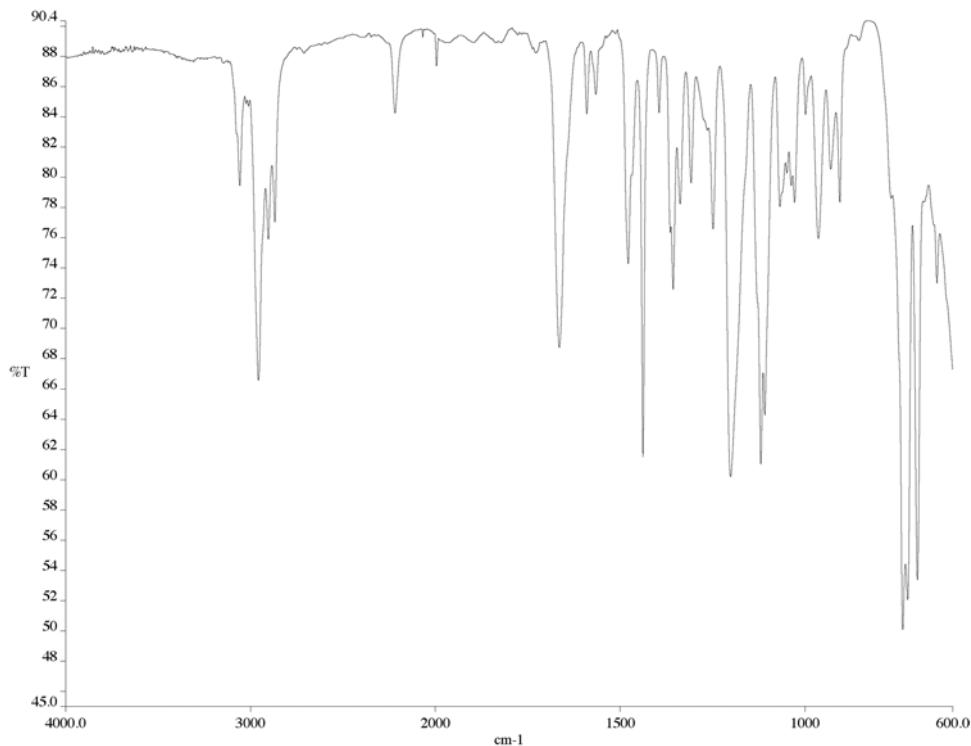


Figure A7.2 IR of compound **295** (NaCl/film)

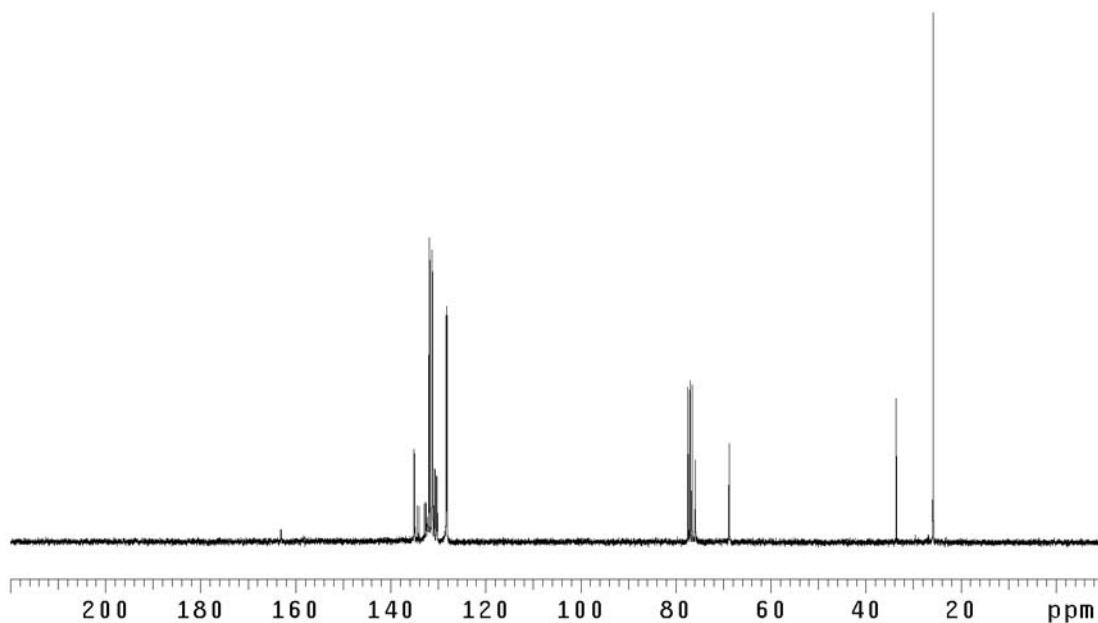


Figure A7.3 <sup>13</sup>C NMR of compound **295** (75 MHz, CDCl<sub>3</sub>)

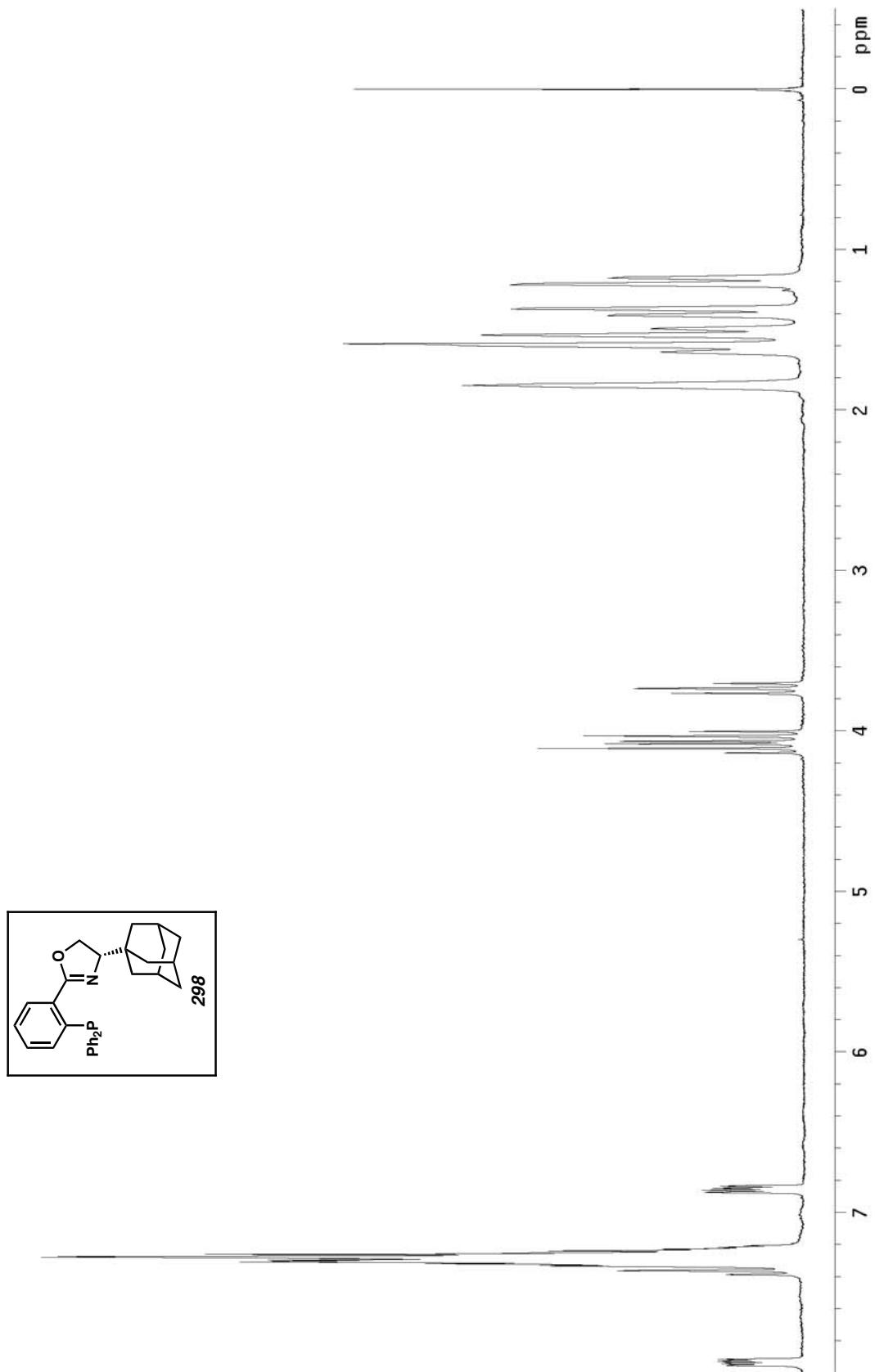


Figure A7.4  $^1\text{H}$  NMR of compound **298** (300 MHz,  $\text{CDCl}_3$ )

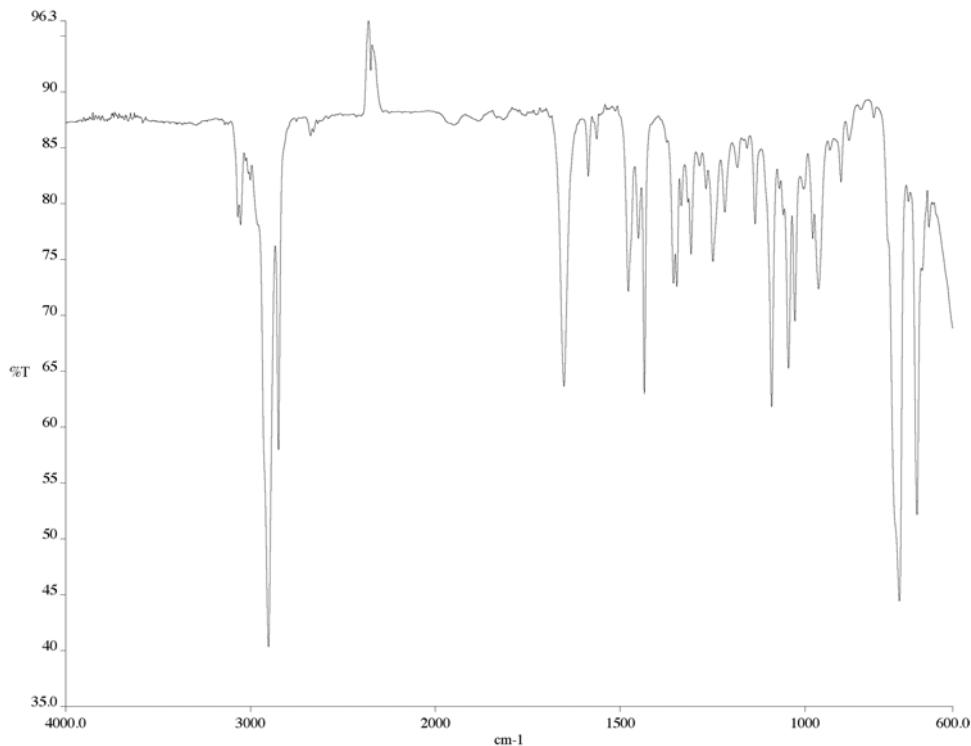


Figure A7.5 IR of compound **298** (NaCl/film)

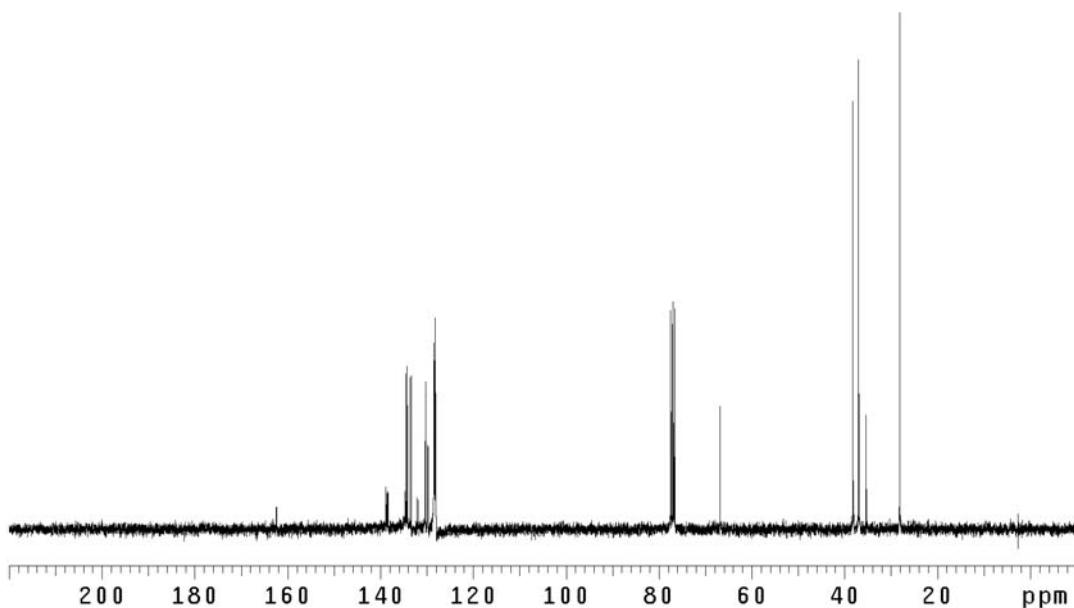


Figure A7.6 <sup>13</sup>C NMR of compound **298** (75 MHz, CDCl<sub>3</sub>)

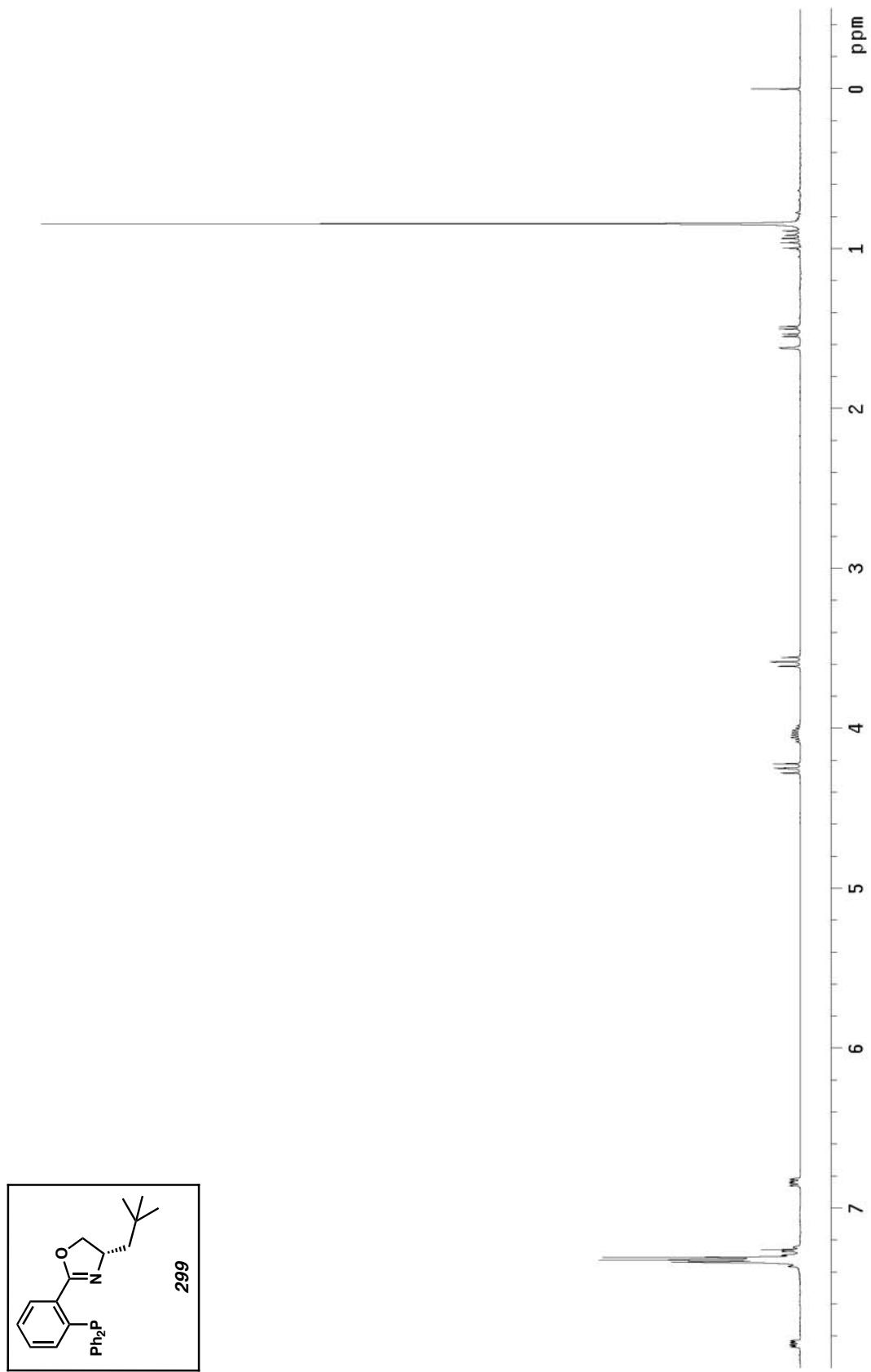


Figure A7.7  $^1\text{H}$  NMR of compound **299** (300 MHz,  $\text{CDCl}_3$ )

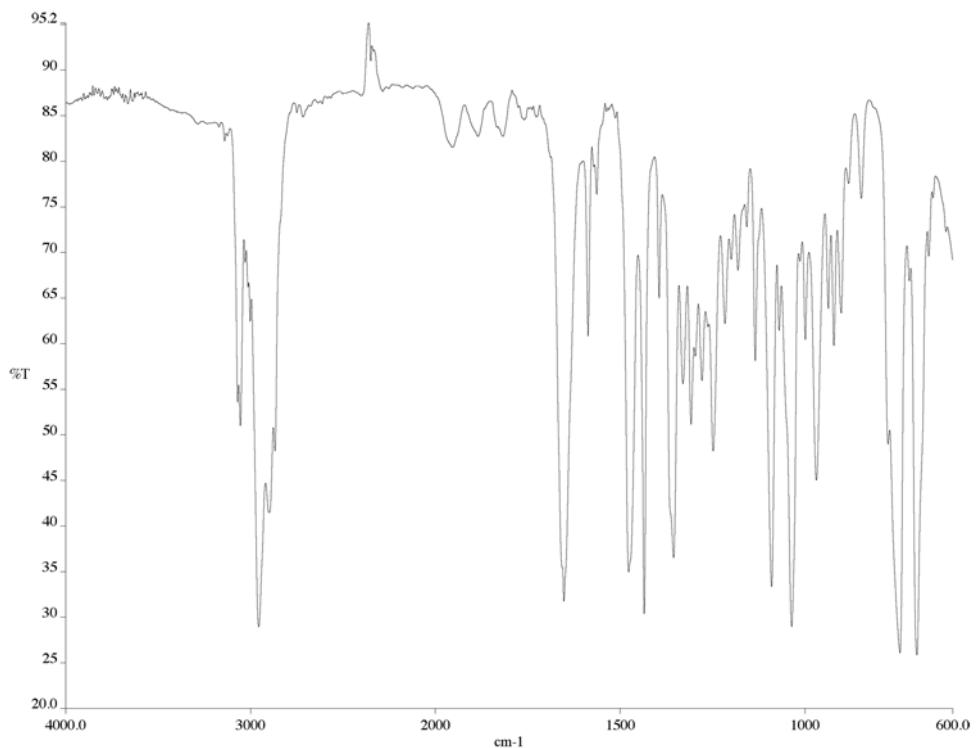


Figure A7.8 IR of compound **299** (NaCl/film)

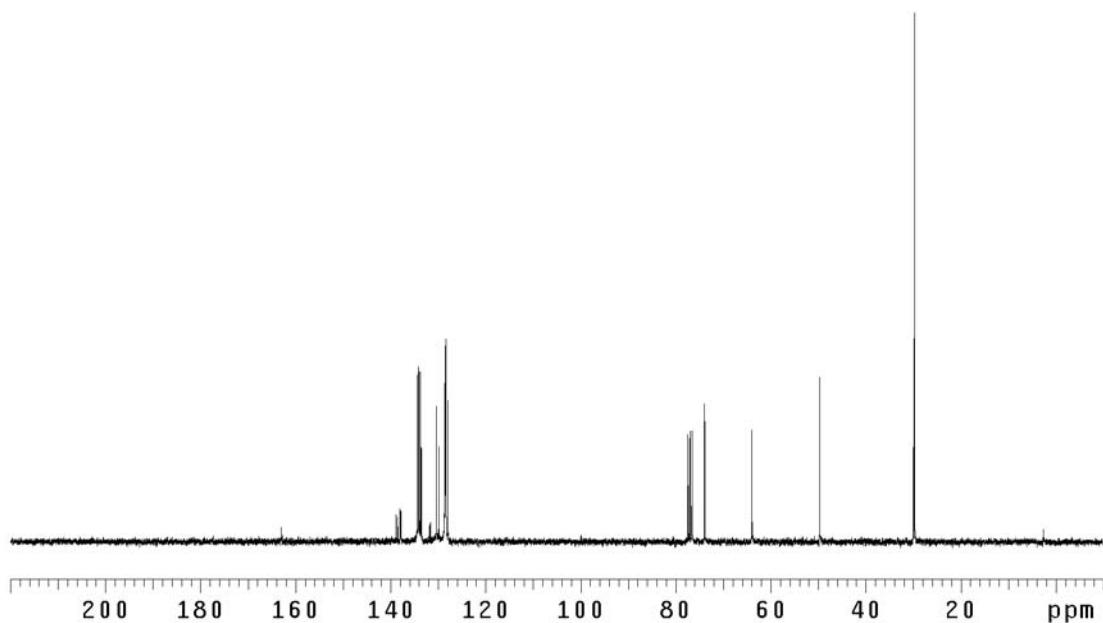


Figure A7.9 <sup>13</sup>C NMR of compound **299** (75 MHz, CDCl<sub>3</sub>)

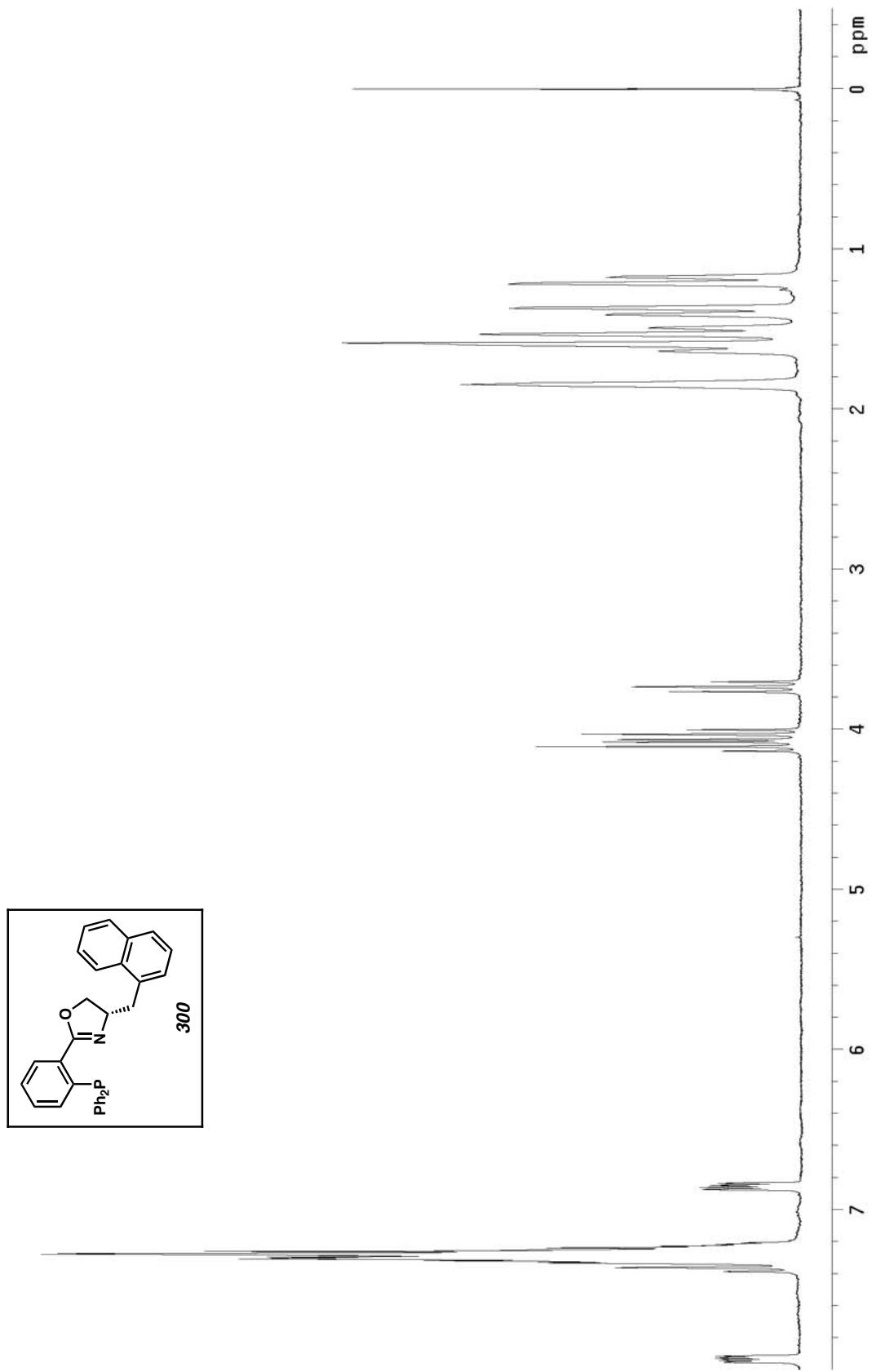


Figure A7.10  $^1\text{H}$  NMR of compound 300 (300 MHz,  $\text{CDCl}_3$ )

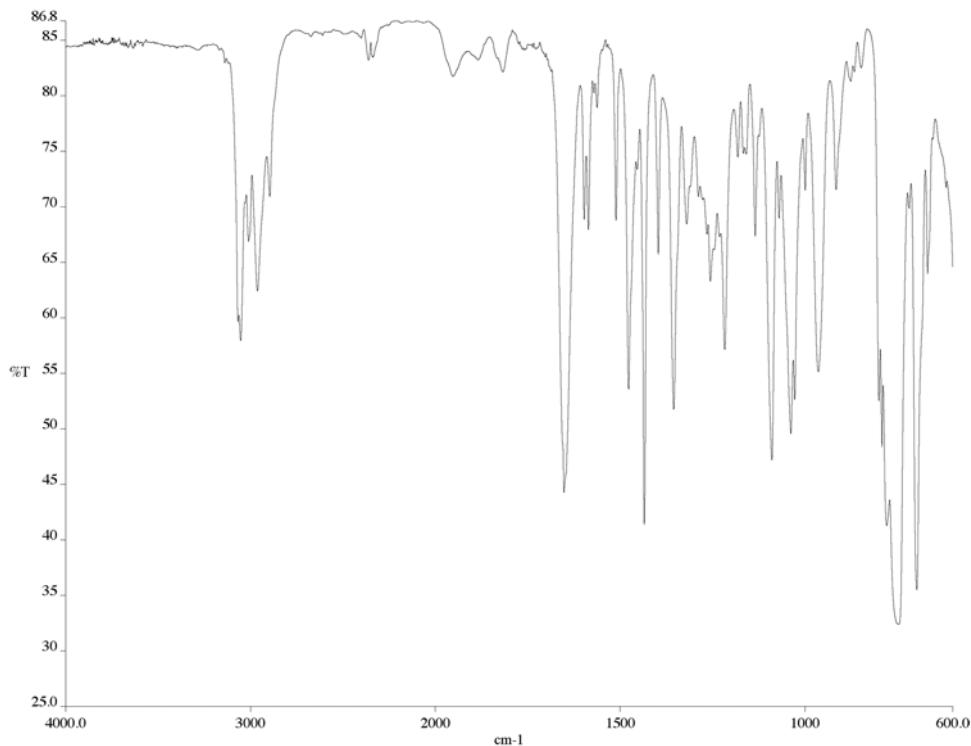


Figure A7.11 IR of compound **300** (NaCl/film)

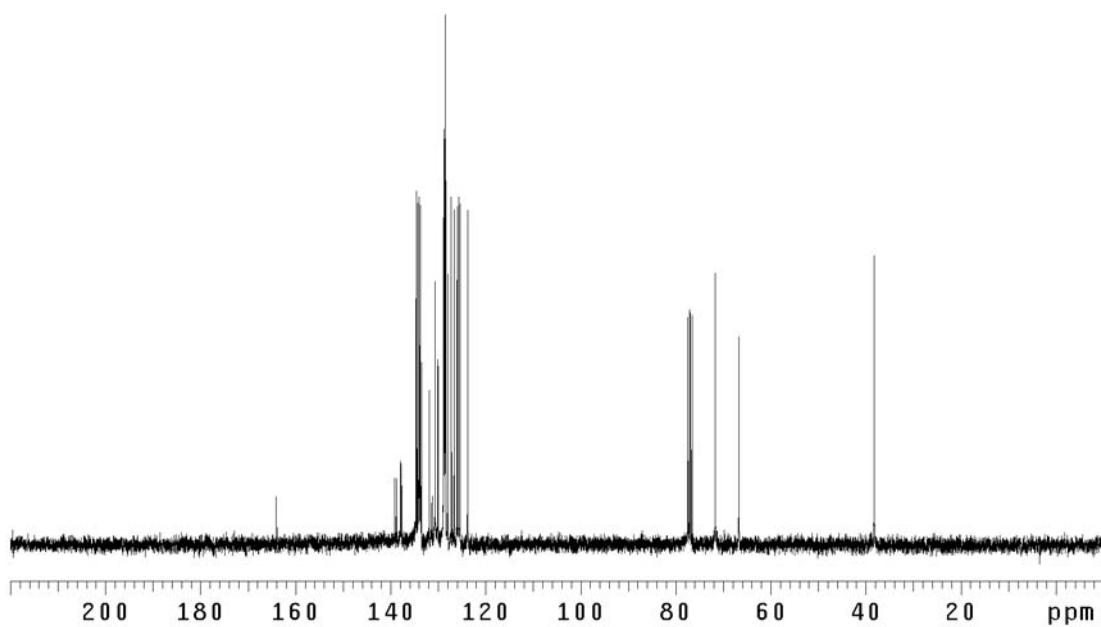


Figure A7.12 <sup>13</sup>C NMR of compound **300** (75 MHz, CDCl<sub>3</sub>)

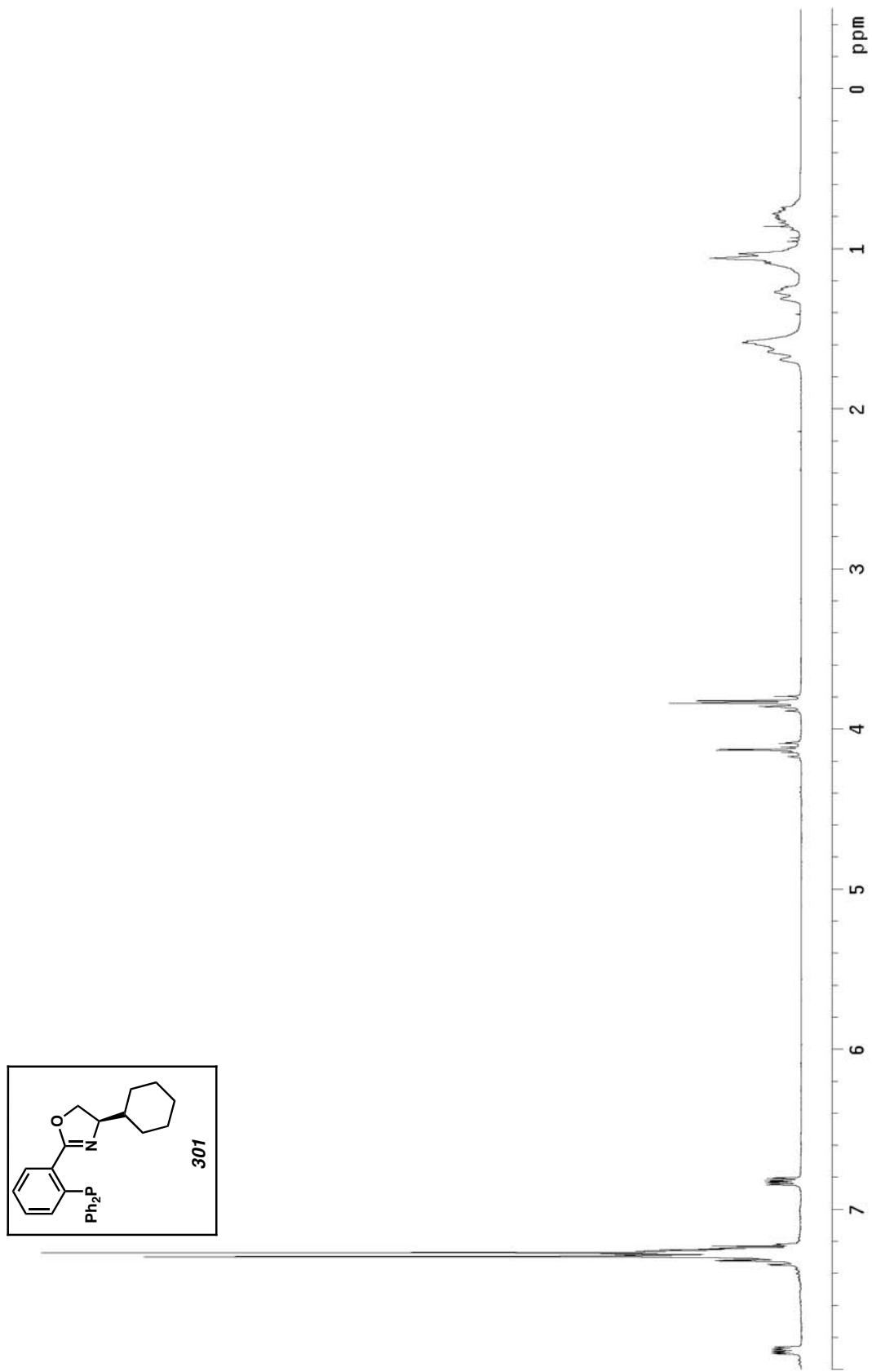


Figure A7.13  $^1\text{H}$  NMR of compound 301 (300 MHz,  $\text{CDCl}_3$ )

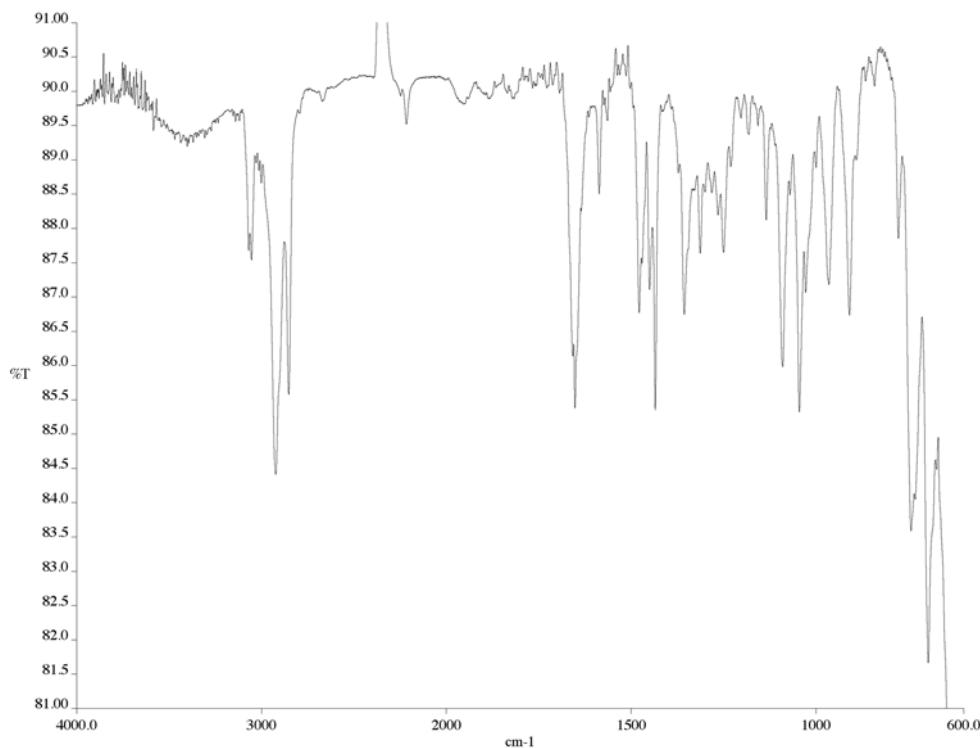


Figure A7.14 IR of compound **301** (NaCl/film)

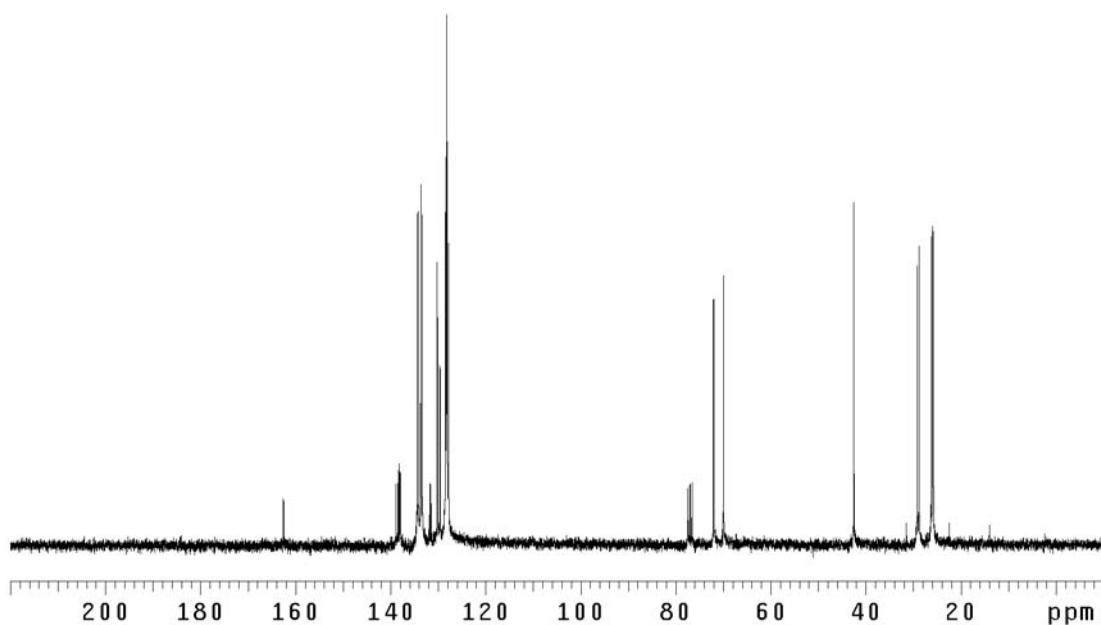


Figure A7.15 <sup>13</sup>C NMR of compound **301** (75 MHz, CDCl<sub>3</sub>)

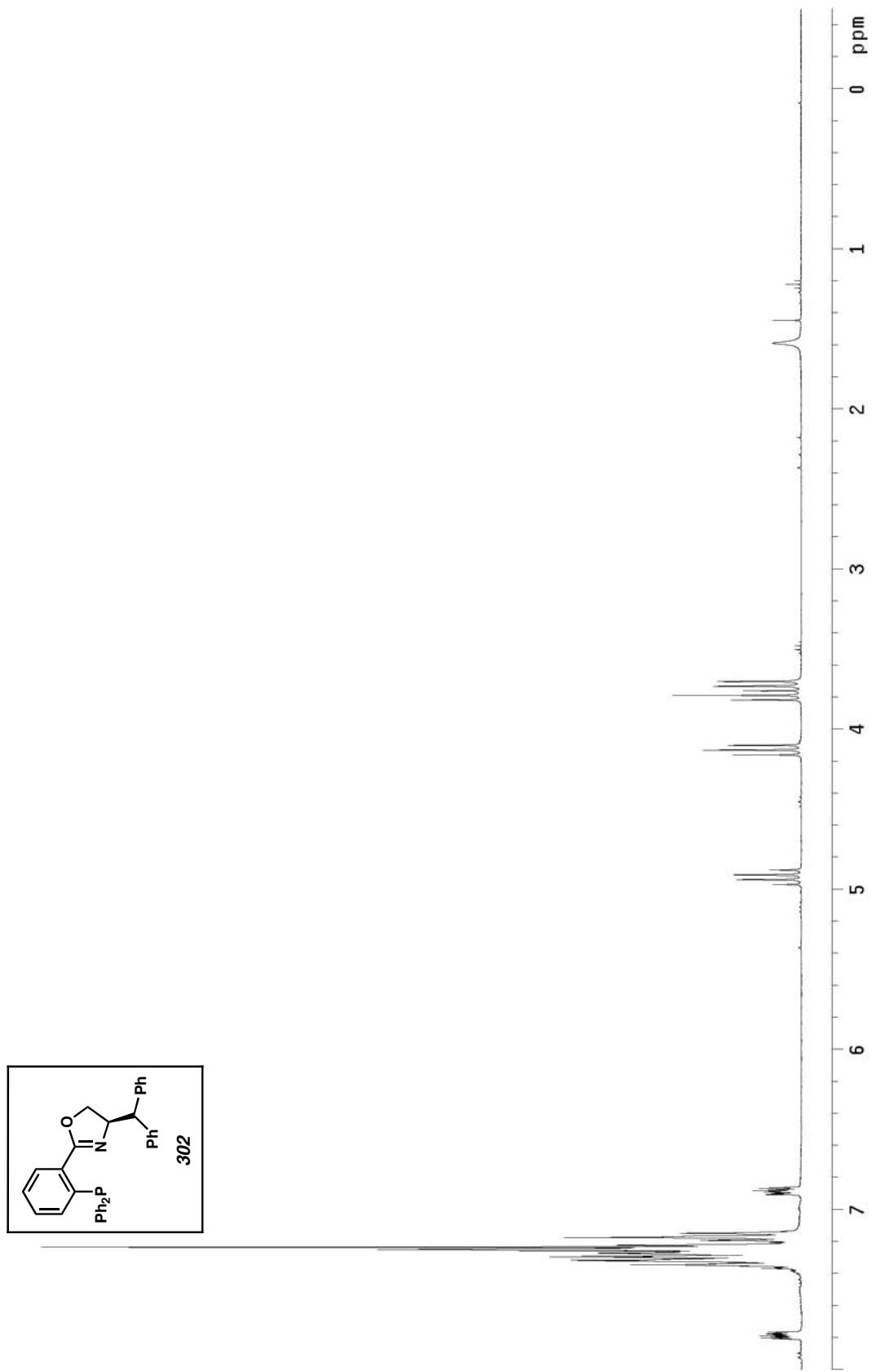


Figure A7.16  $^1\text{H}$  NMR of compound 302 (300 MHz,  $\text{CDCl}_3$ )

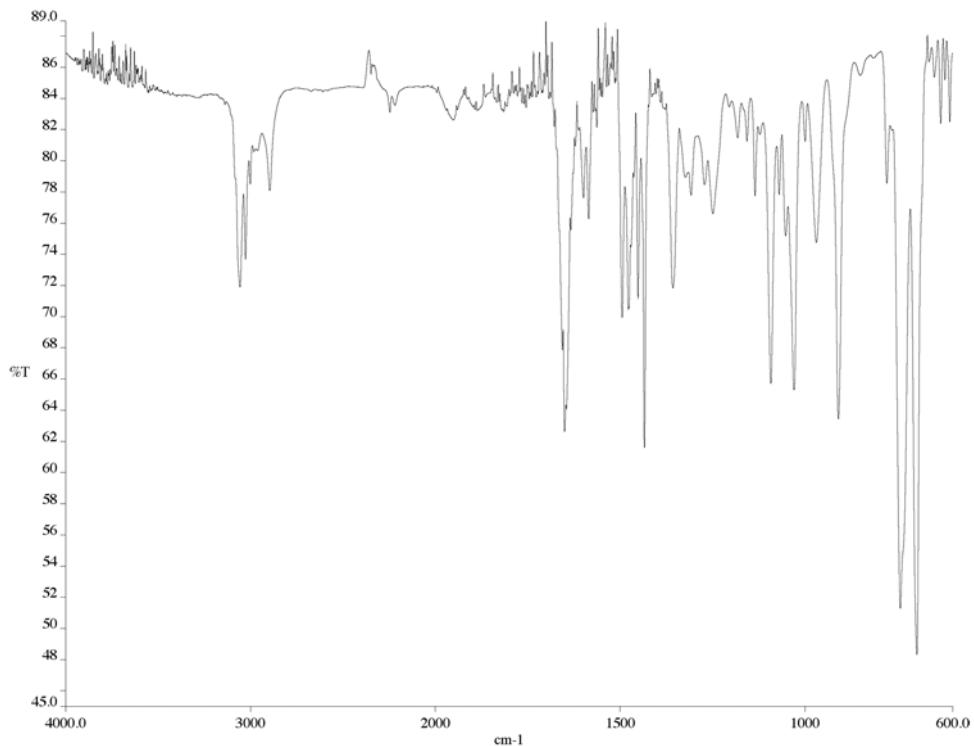


Figure A7.17 IR of compound **302** (NaCl/film)

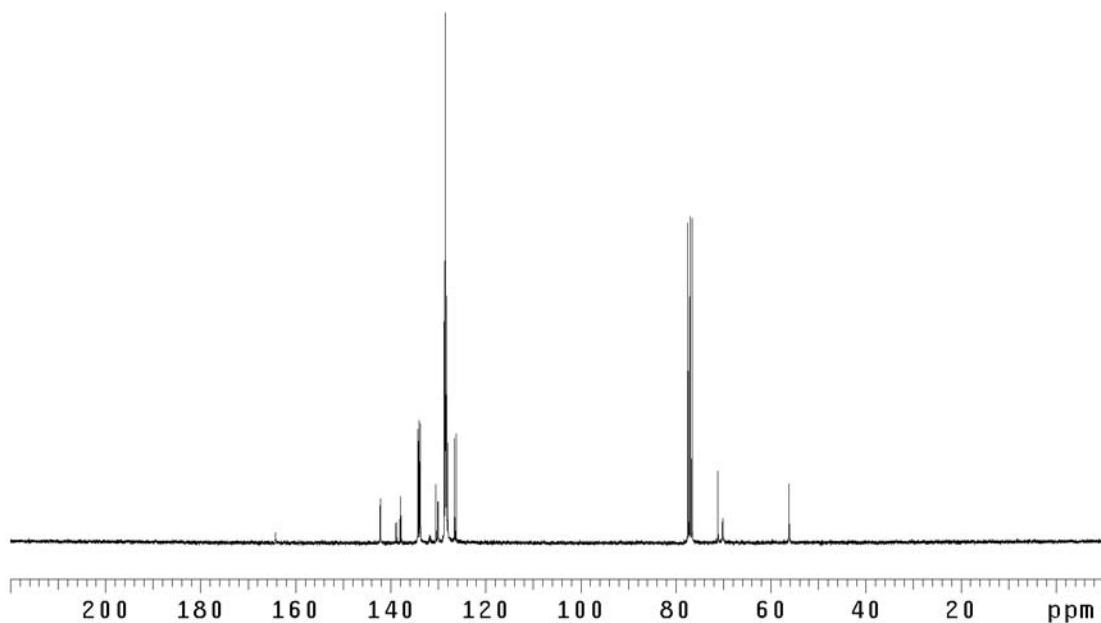


Figure A7.18 <sup>13</sup>C NMR of compound **302** (75 MHz, CDCl<sub>3</sub>)

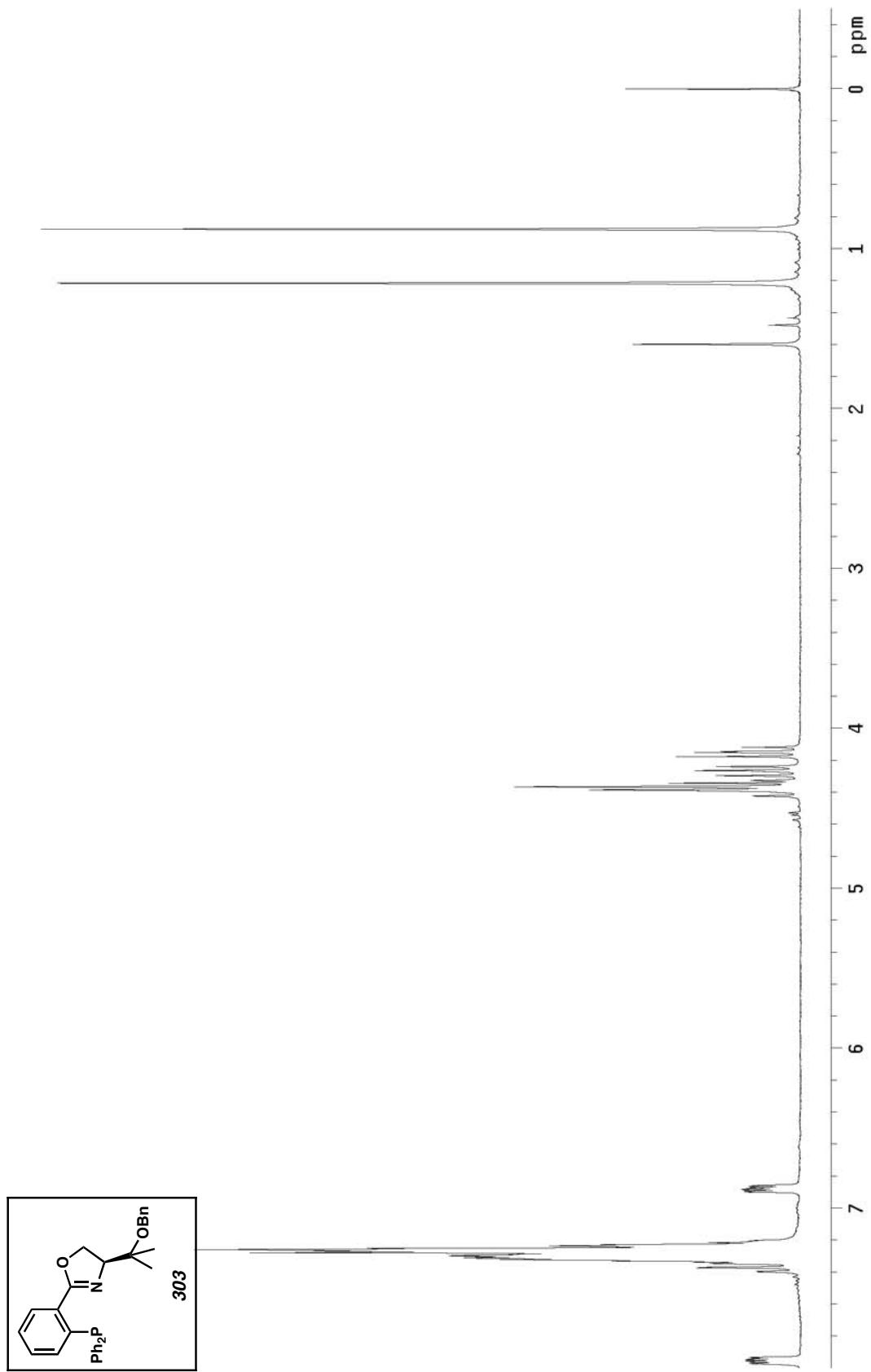


Figure A7.19  $^1\text{H}$  NMR of compound 303 (300 MHz,  $\text{CDCl}_3$ )

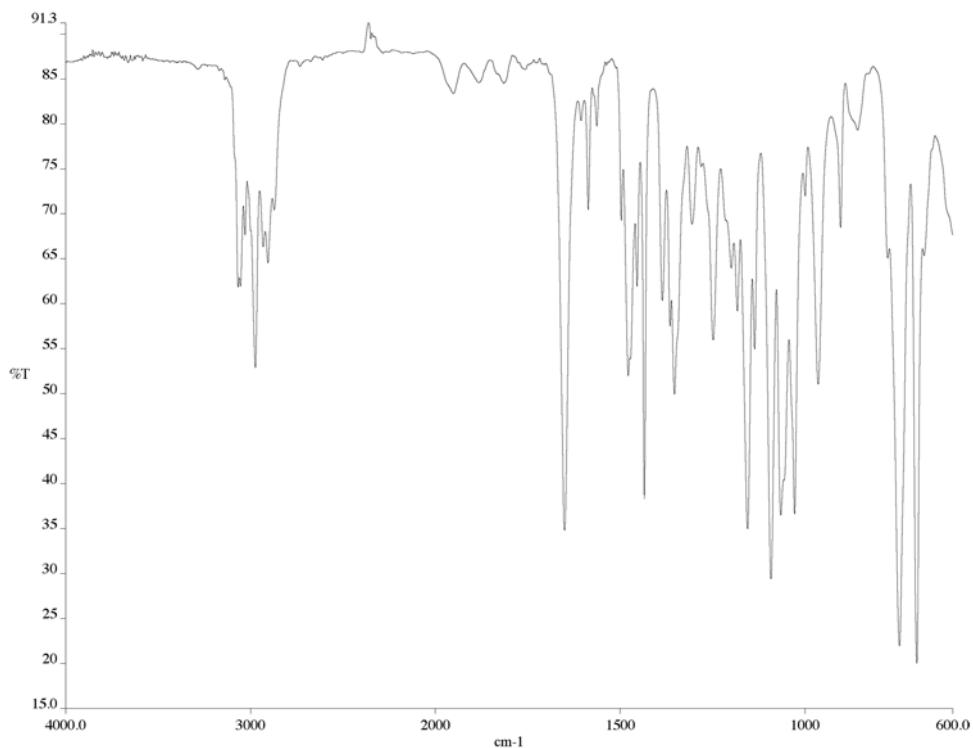


Figure A7.20 IR of compound **303** (NaCl/film)

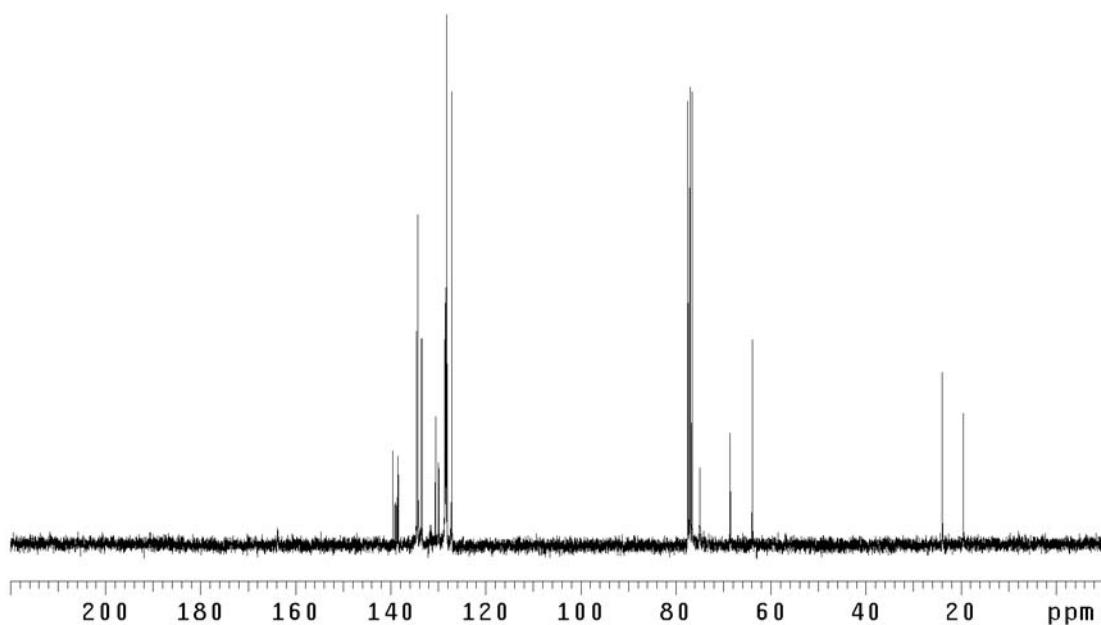


Figure A7.21 <sup>13</sup>C NMR of compound **303** (75 MHz, CDCl<sub>3</sub>)

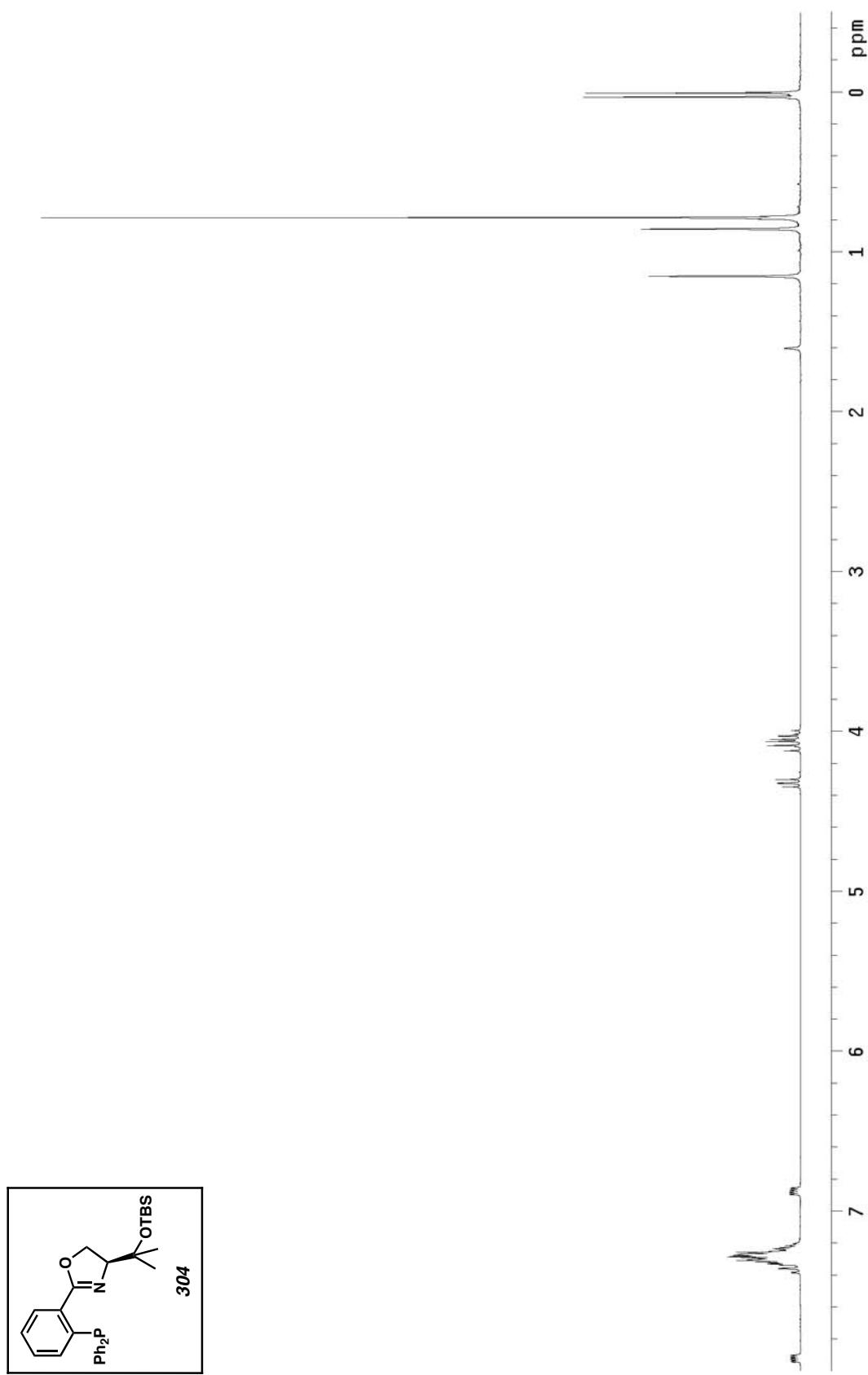


Figure A7.22  $^1\text{H}$  NMR of compound 304 (300 MHz,  $\text{CDCl}_3$ )

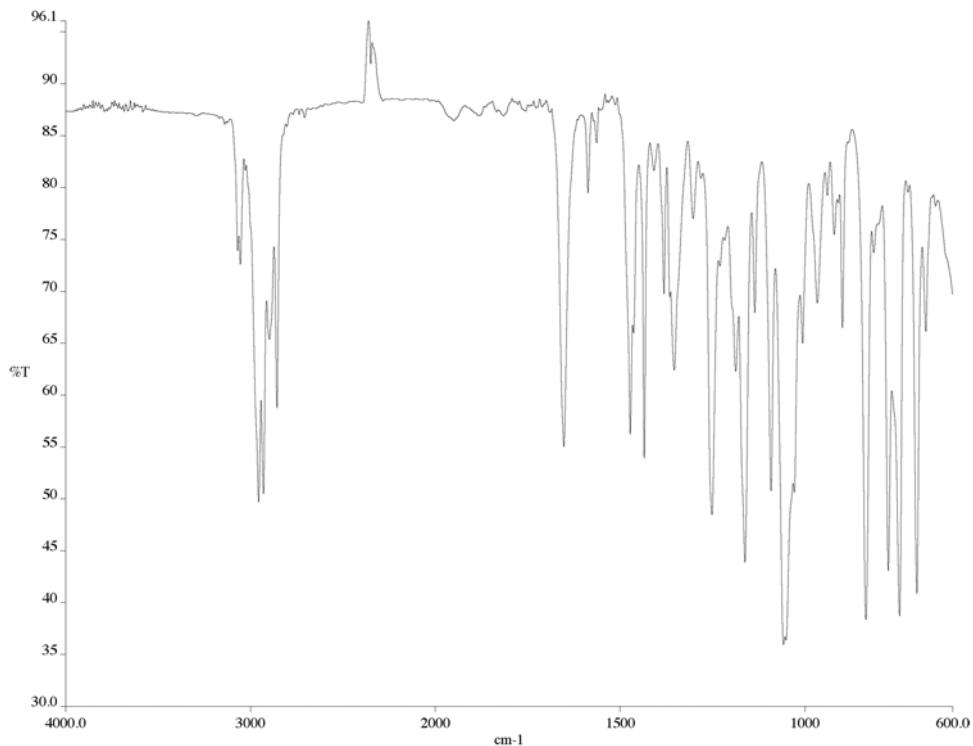


Figure A7.23 IR of compound **304** (NaCl/film)

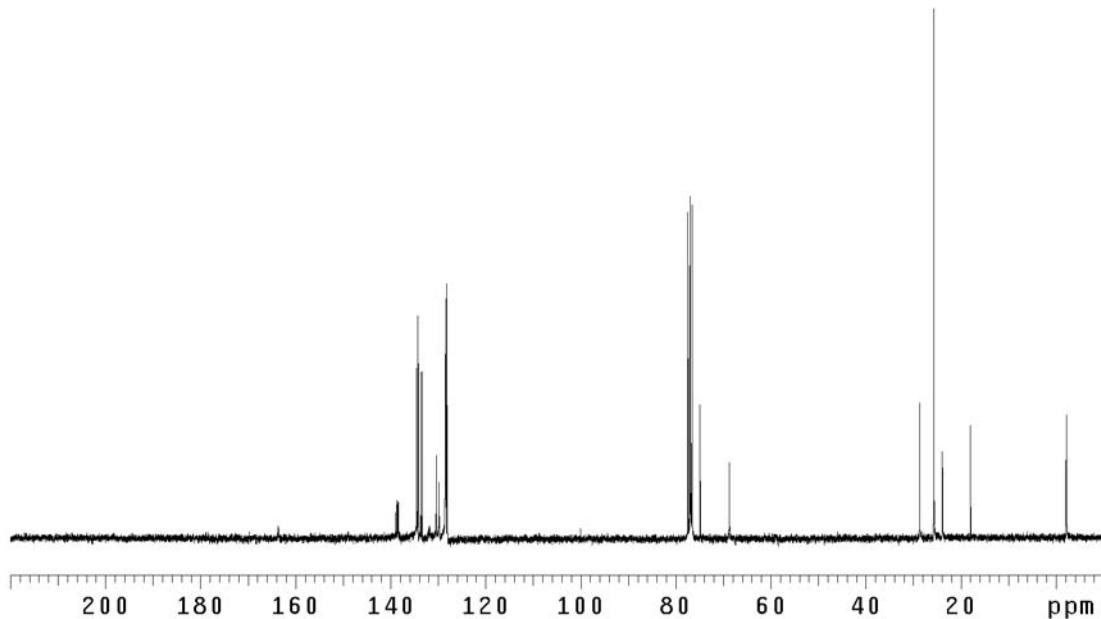


Figure A7.24 <sup>13</sup>C NMR of compound **304** (75 MHz, CDCl<sub>3</sub>)

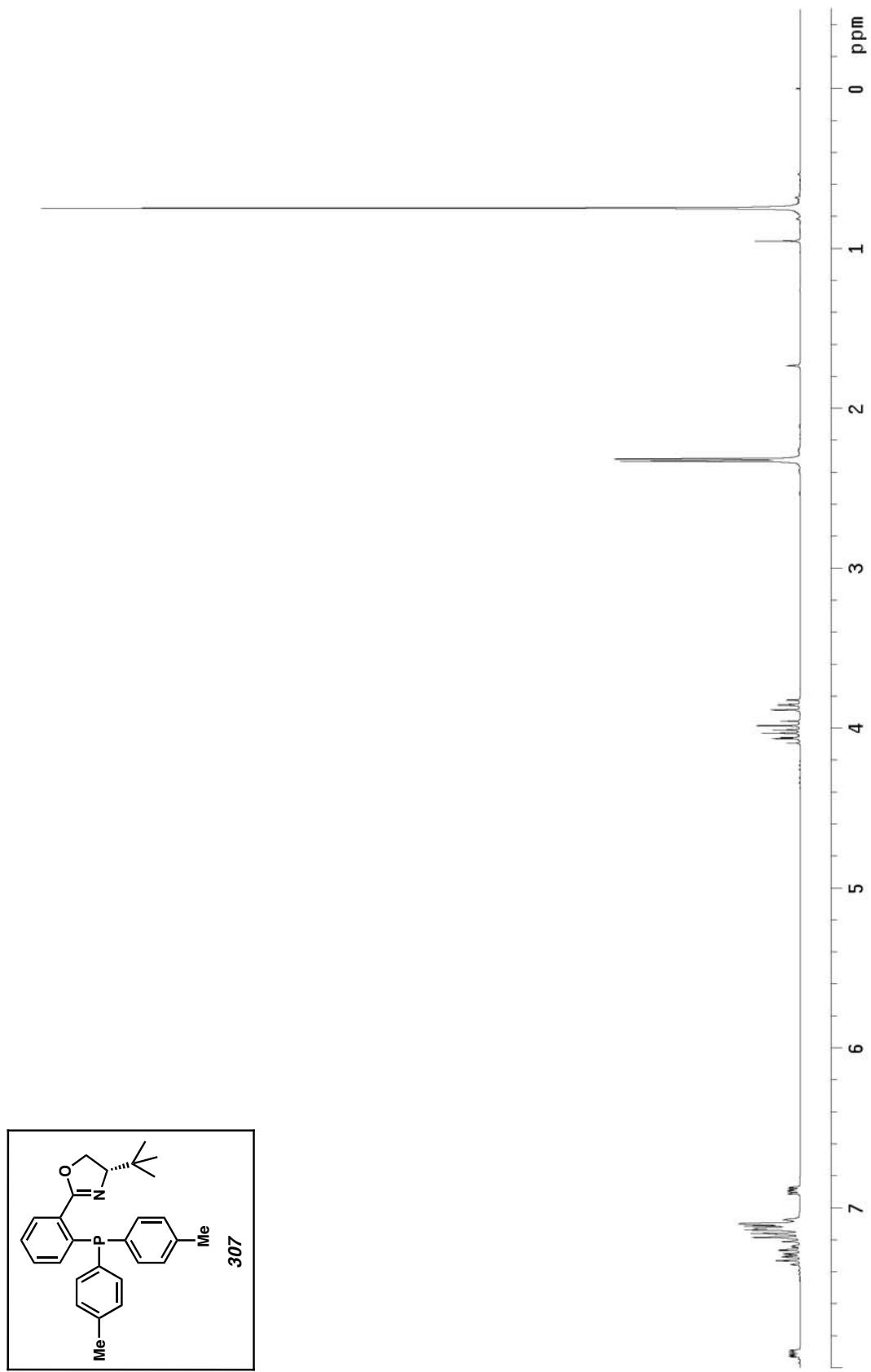


Figure A7.25  $^1\text{H}$  NMR of compound 307 (300 MHz,  $\text{CDCl}_3$ )

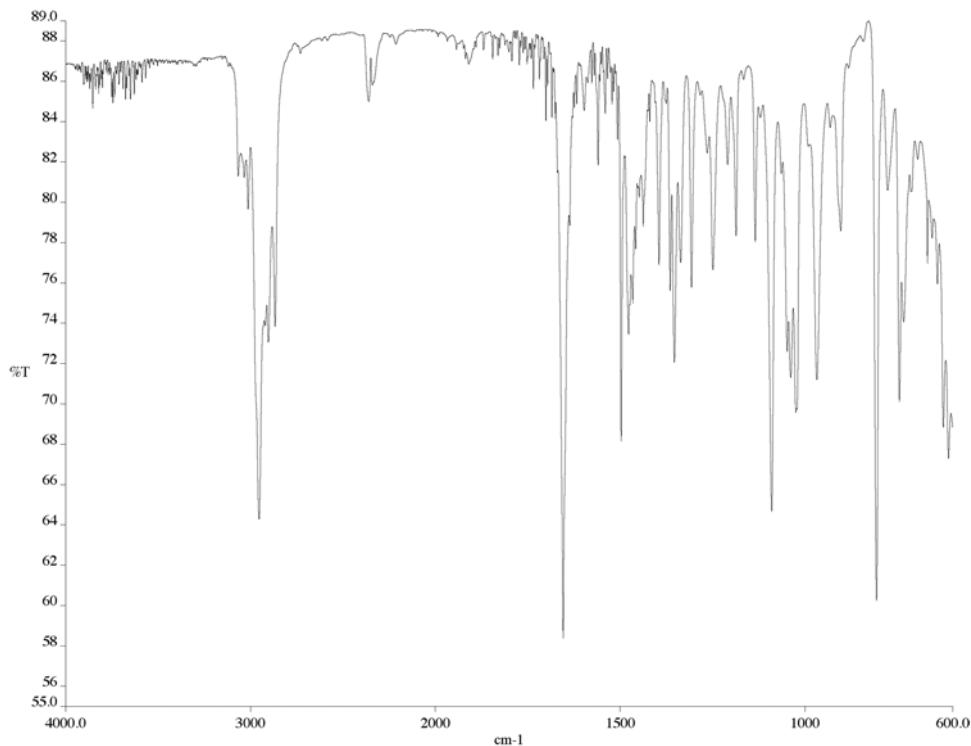


Figure A7.26 IR of compound **307** (NaCl/film)

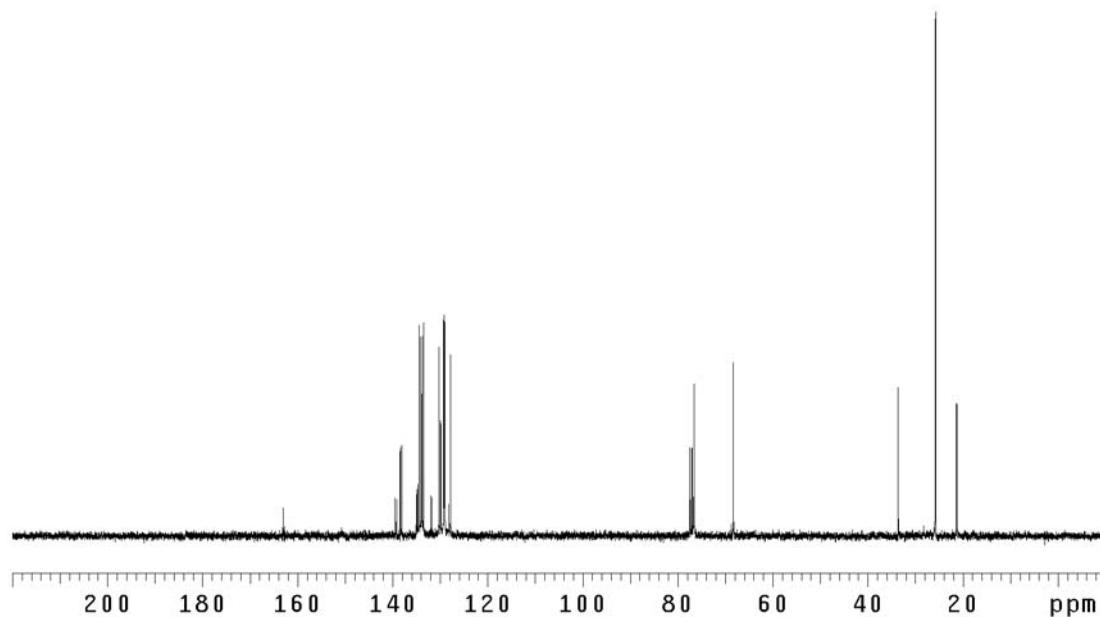


Figure A7.27 <sup>13</sup>C NMR of compound **307** (75 MHz, CDCl<sub>3</sub>)

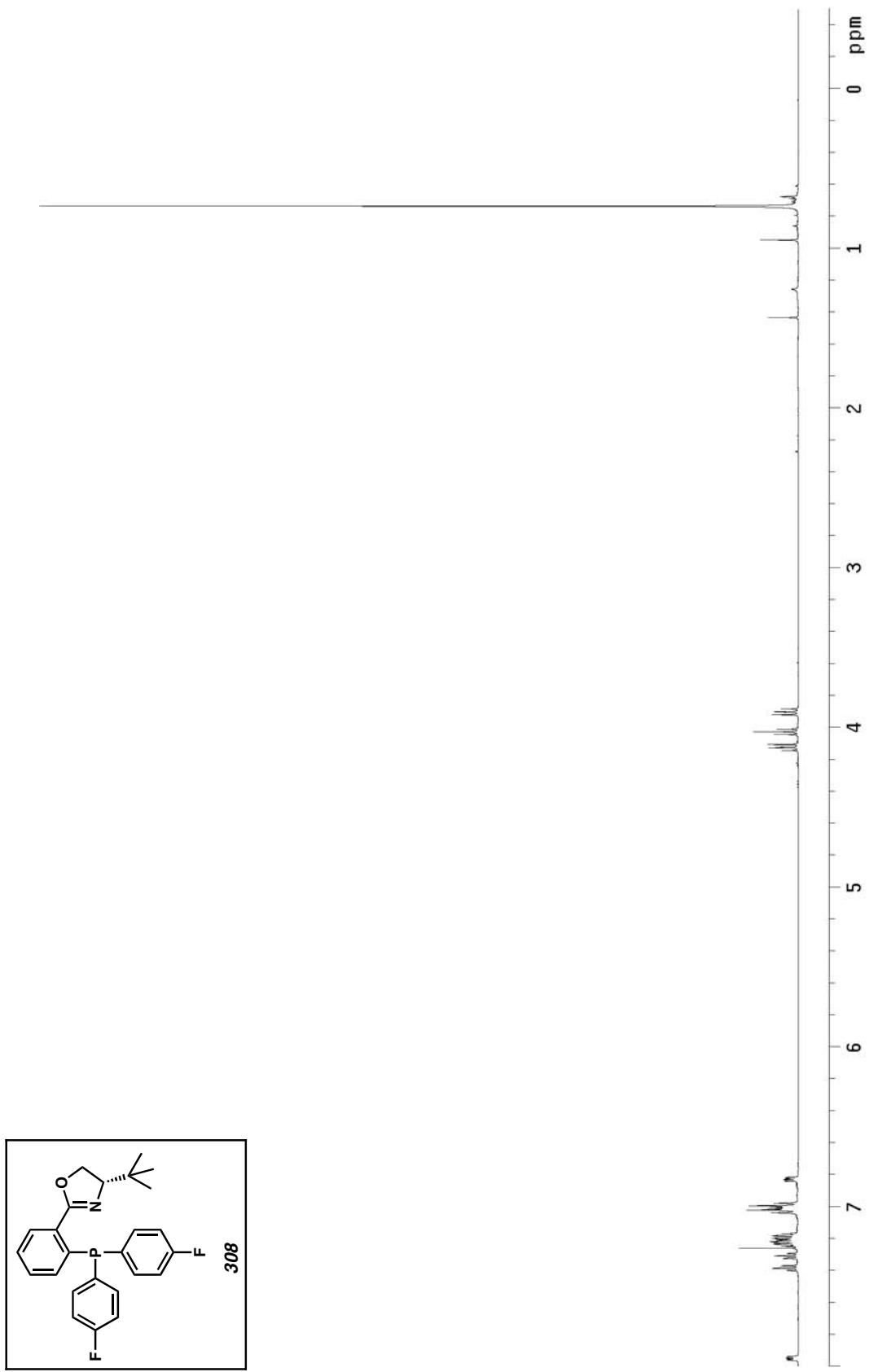


Figure A7.28  $^1\text{H}$  NMR of compound 308 (500 MHz,  $\text{CDCl}_3$ )

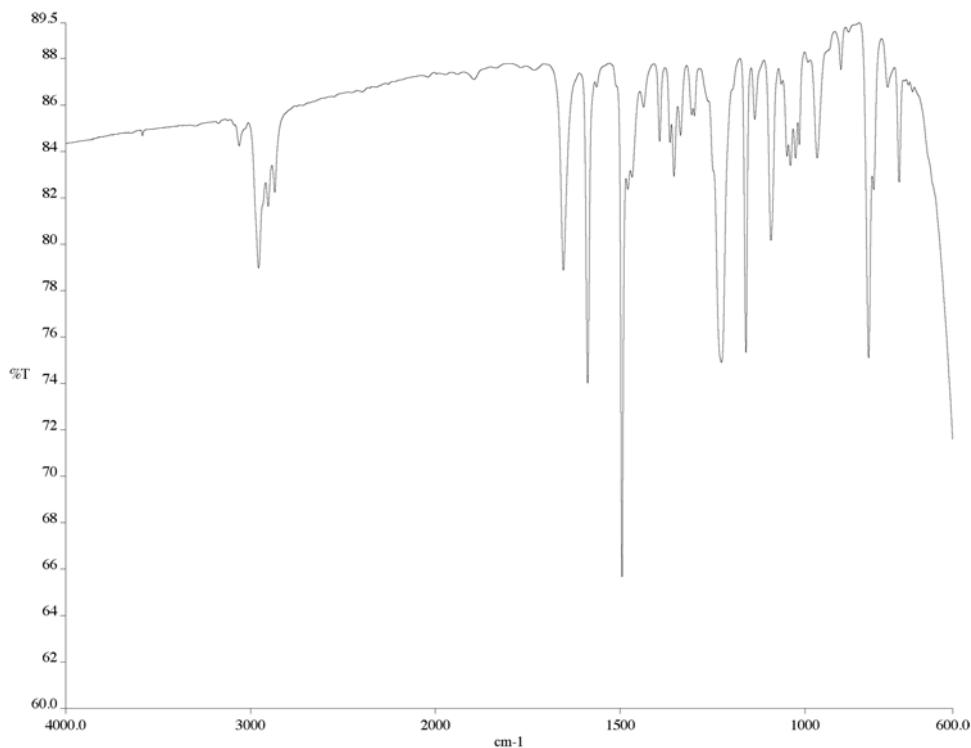


Figure A7.29 IR of compound **308** (NaCl/film)

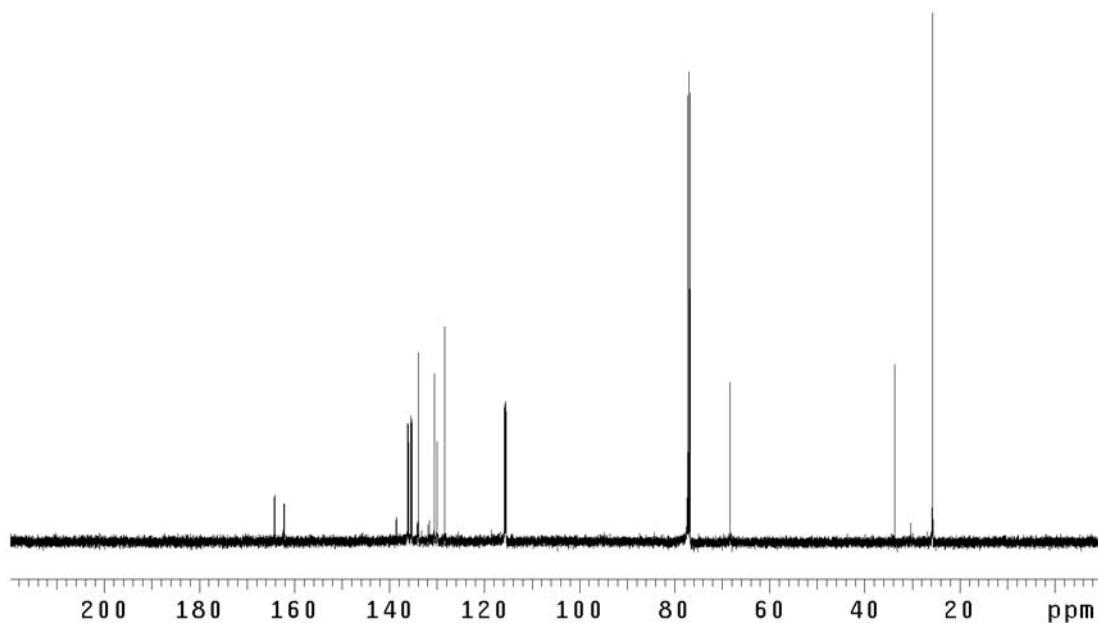


Figure A7.30 <sup>13</sup>C NMR of compound **308** (125 MHz, CDCl<sub>3</sub>)

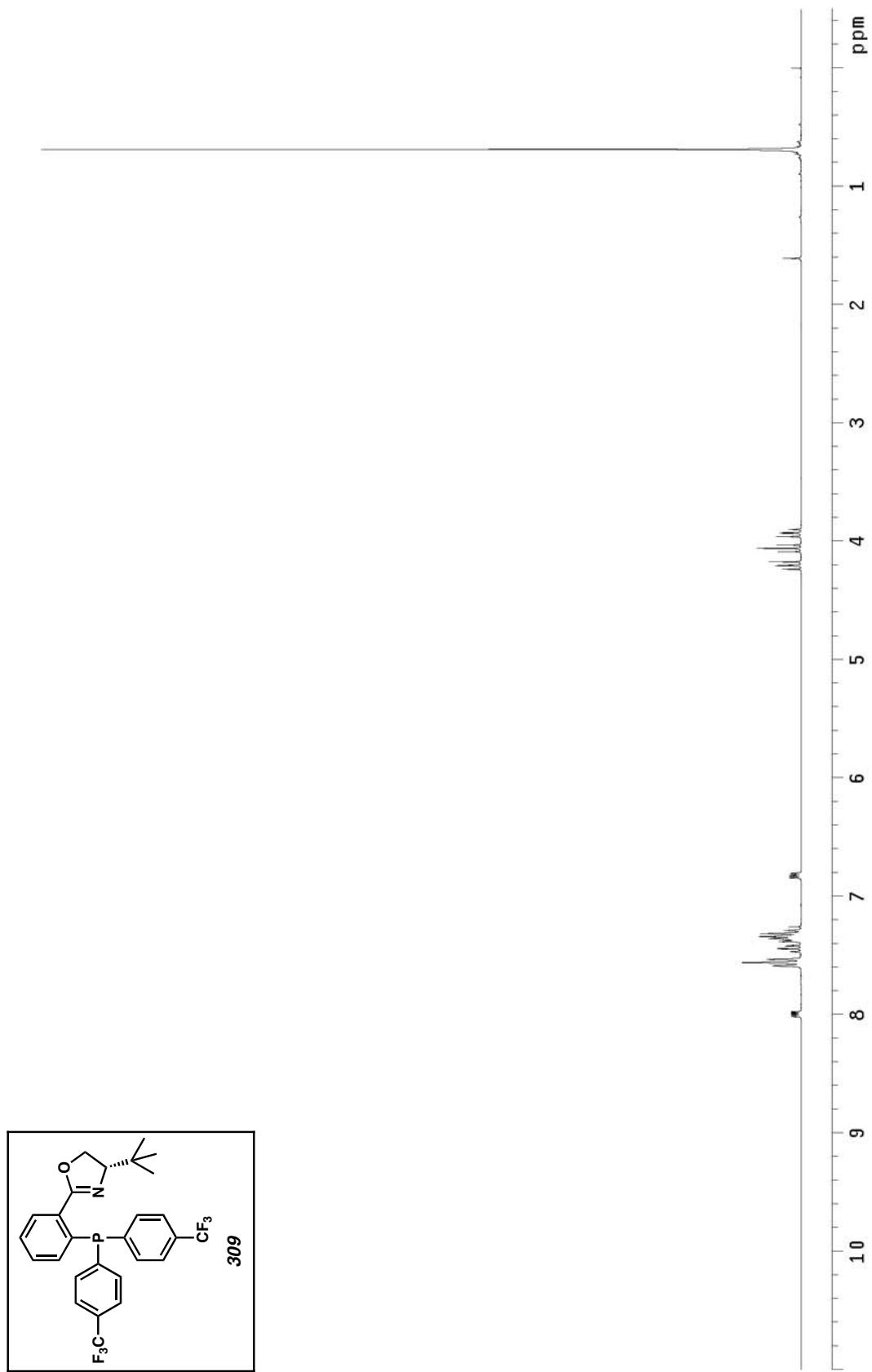


Figure A7.31  $^1\text{H}$  NMR of compound **309** (300 MHz,  $\text{CDCl}_3$ )

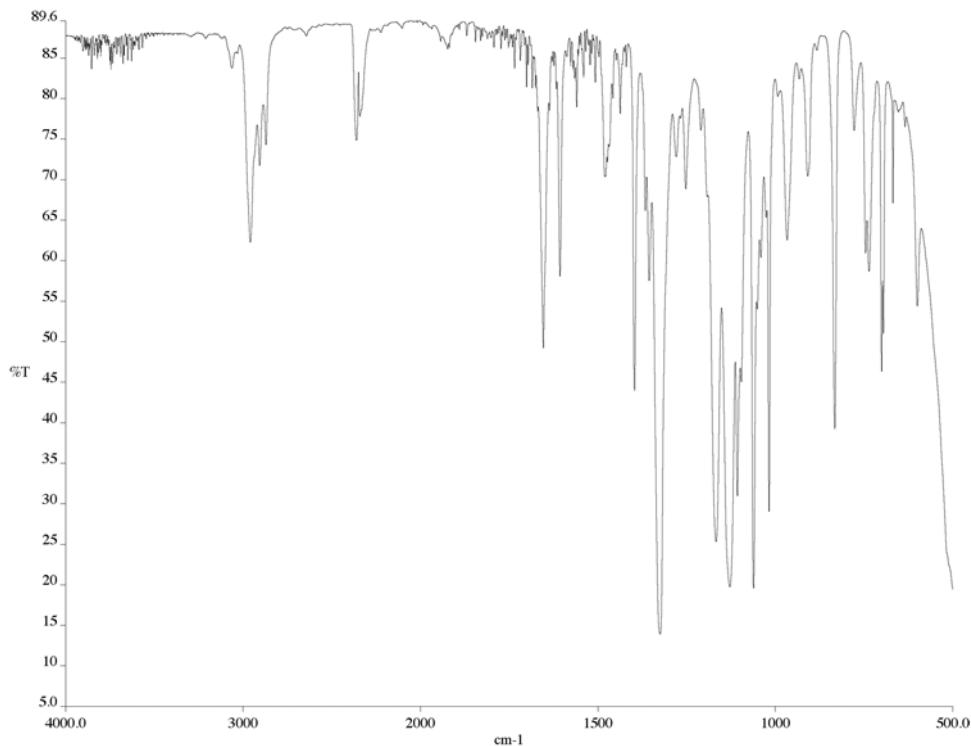


Figure A7.32 IR of compound **309** (NaCl/film)

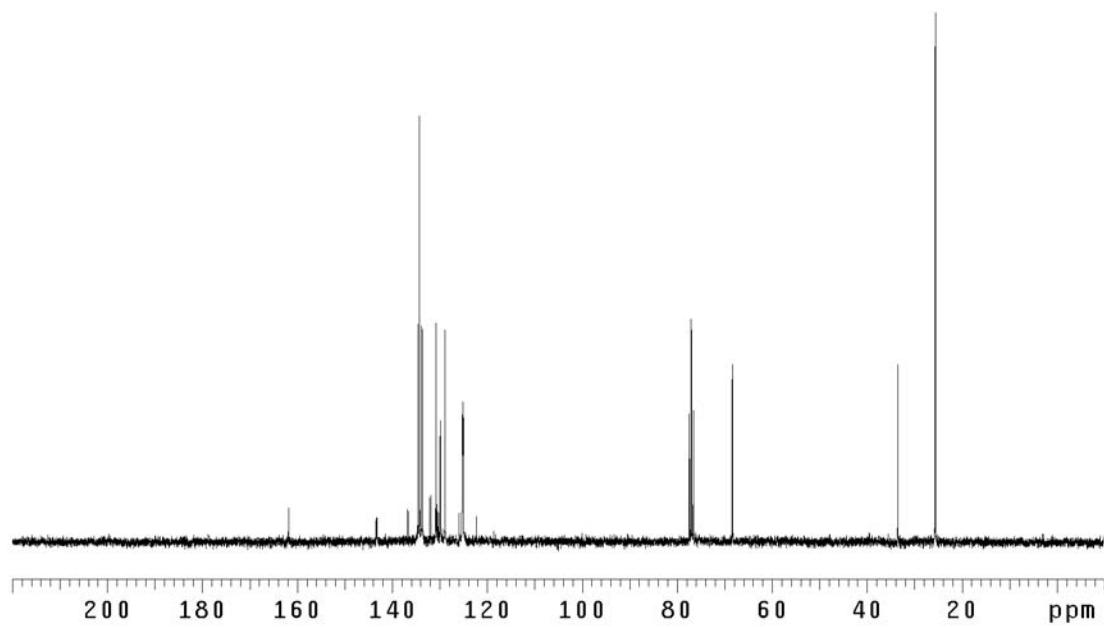


Figure A7.33 <sup>13</sup>C NMR of compound **309** (75 MHz, CDCl<sub>3</sub>)

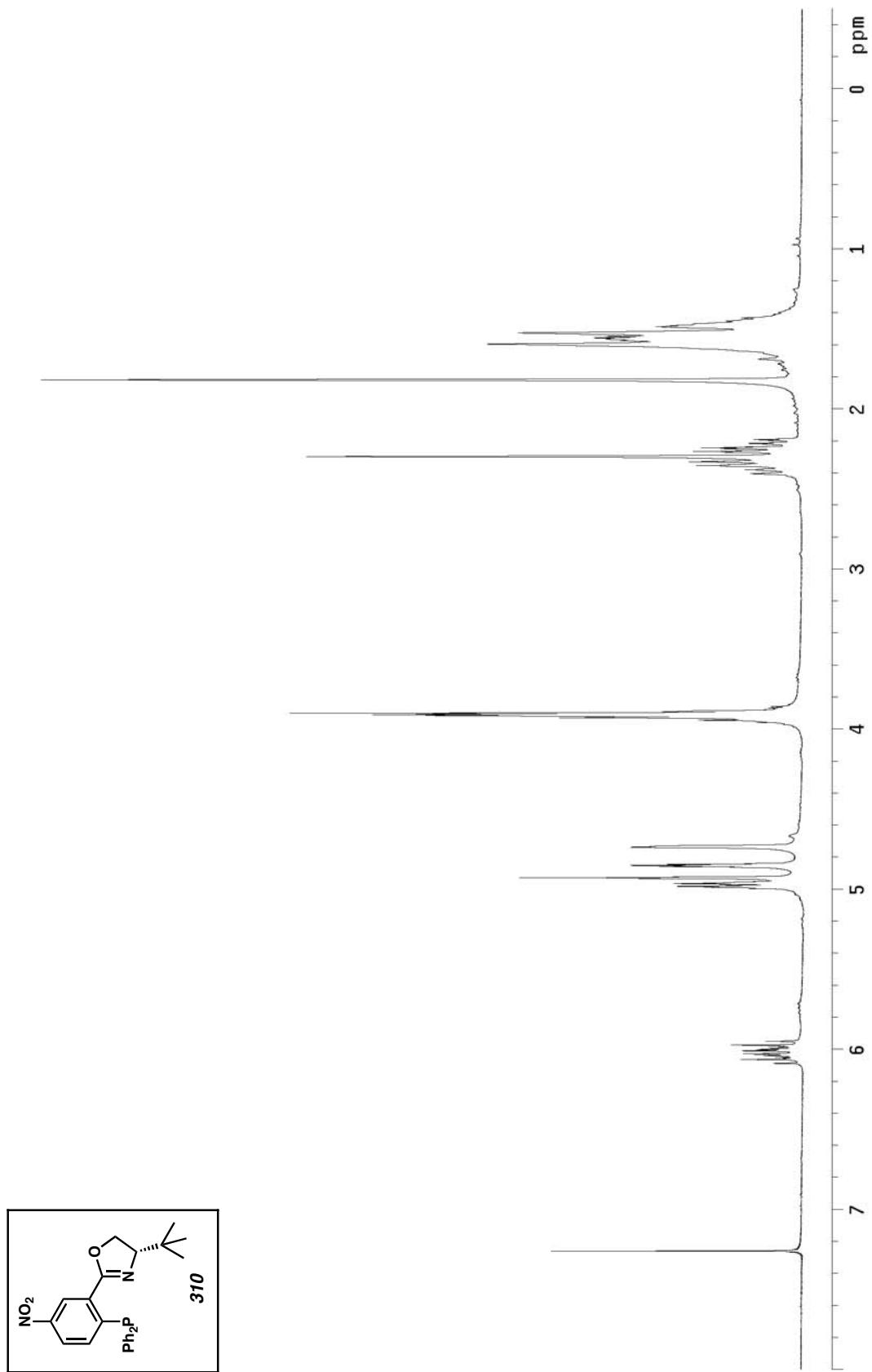


Figure A7.34  $^1\text{H}$  NMR of compound 310 (500 MHz,  $\text{CDCl}_3$ )

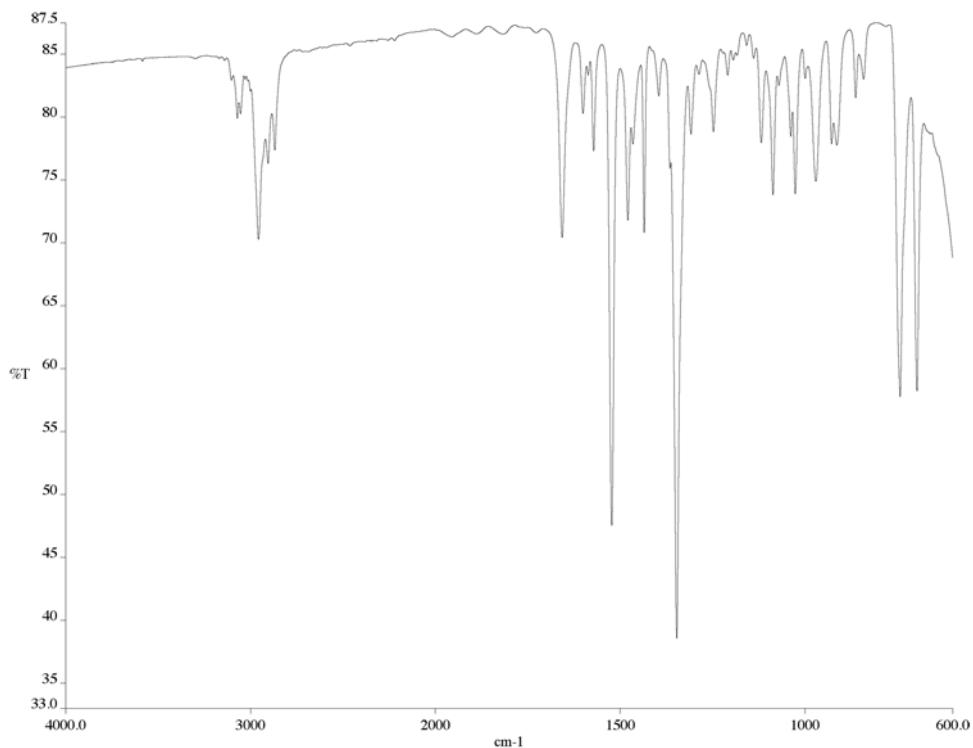


Figure A7.35 IR of compound **310** (NaCl/film)

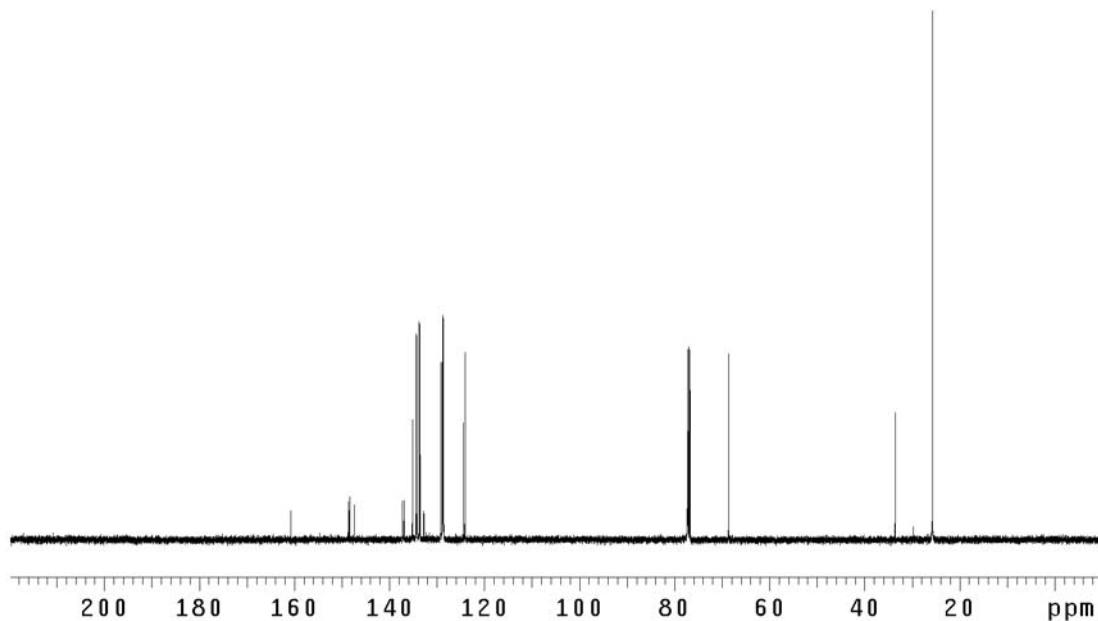


Figure A7.36 <sup>13</sup>C NMR of compound **310** (125 MHz, CDCl<sub>3</sub>)

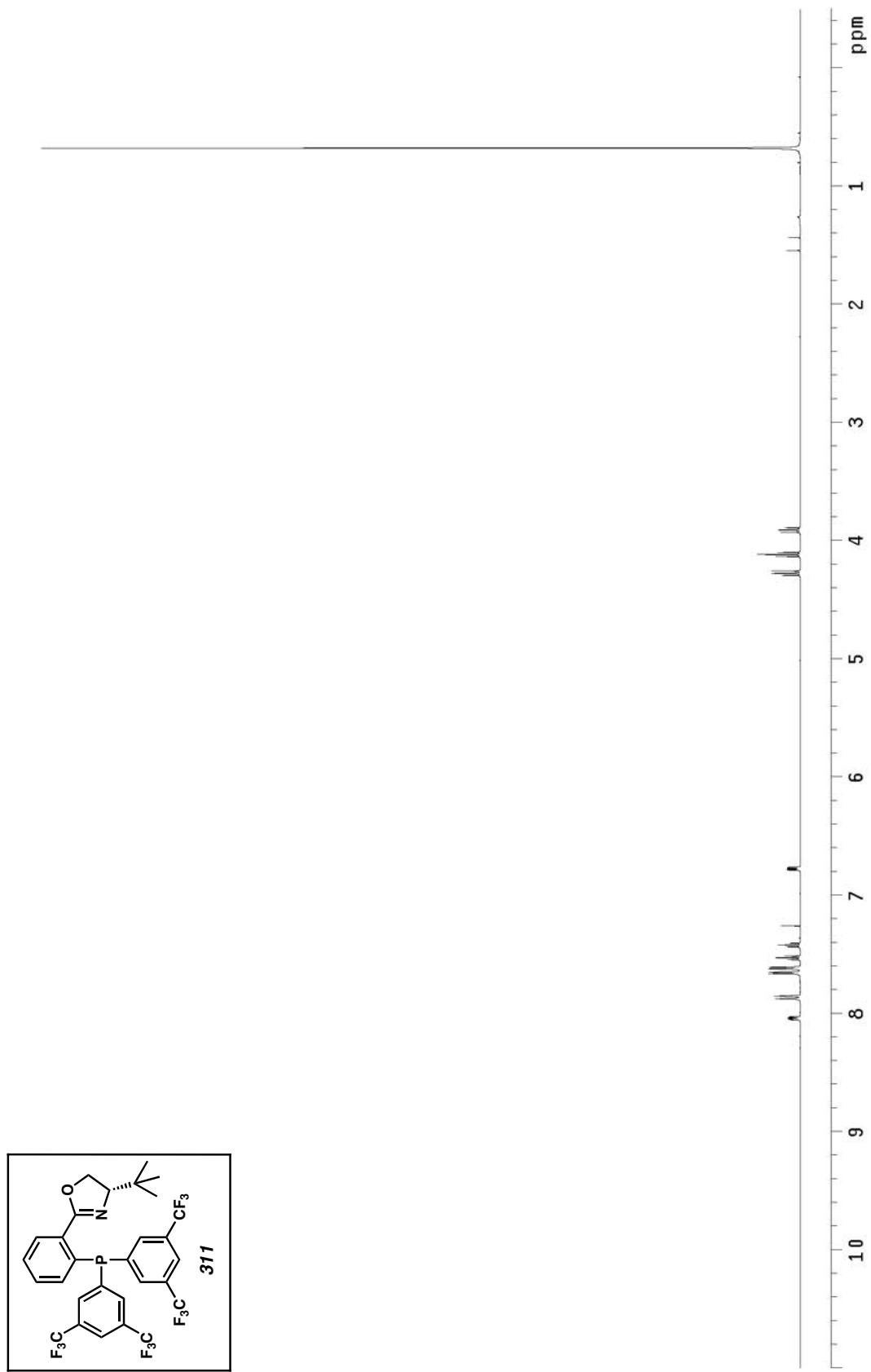


Figure A7.37 <sup>1</sup>H NMR of compound 311 (500 MHz, CDCl<sub>3</sub>)

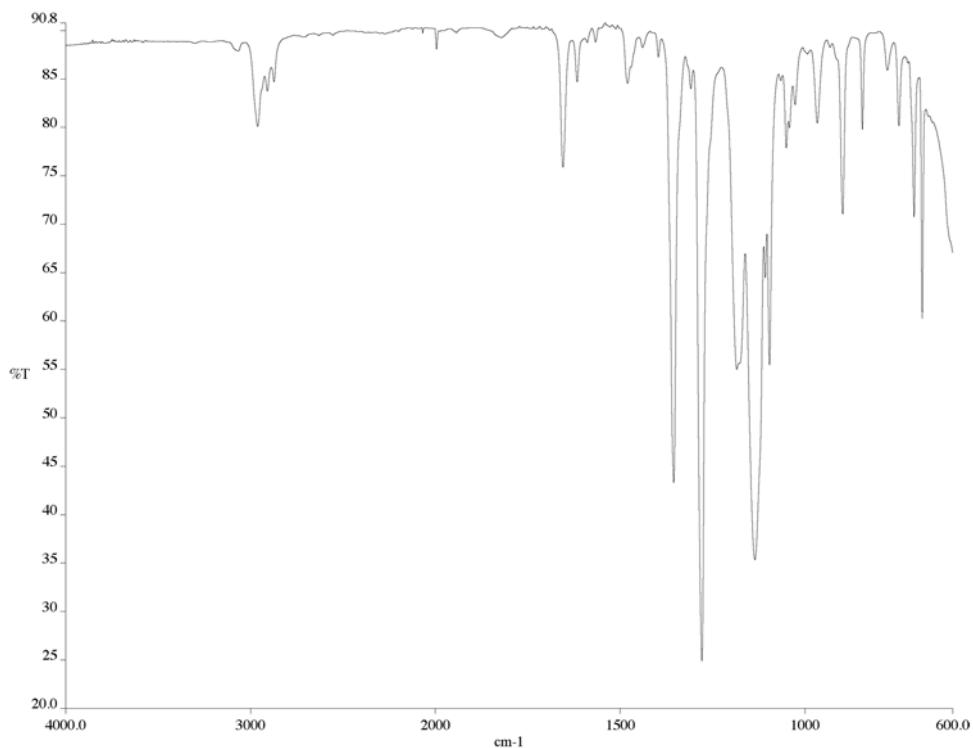


Figure A7.38 IR of compound **311** (NaCl/film)

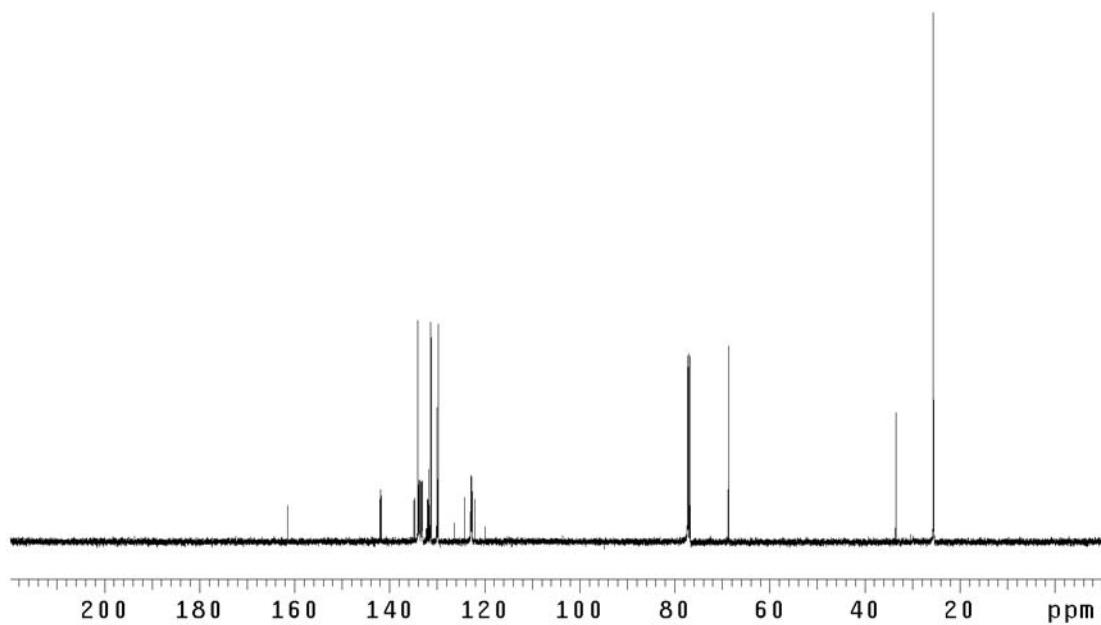


Figure A7.39 <sup>13</sup>C NMR of compound **311** (125 MHz, CDCl<sub>3</sub>)

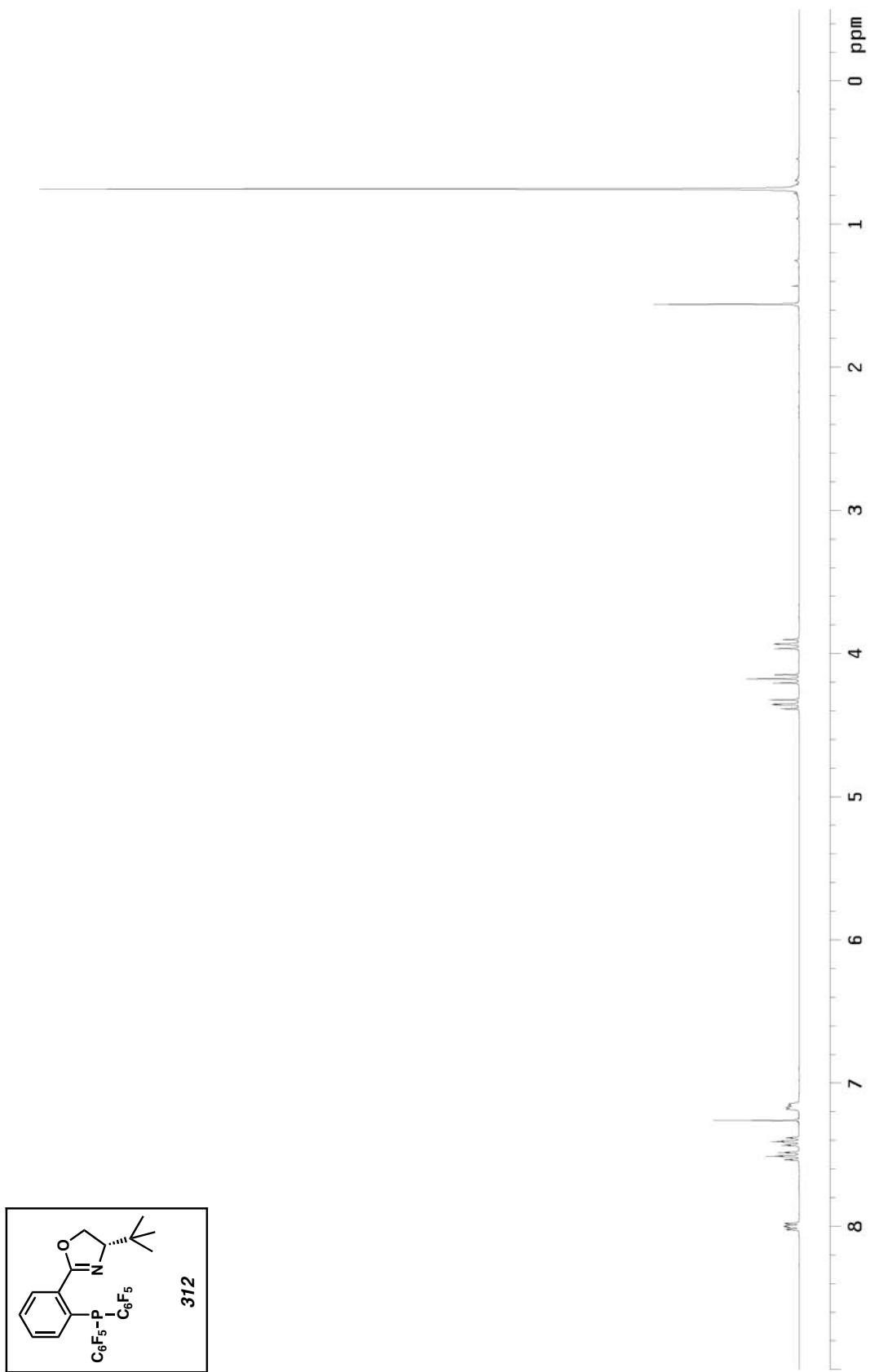


Figure A7.40  $^1\text{H}$  NMR of compound 312 (300 MHz,  $\text{CDCl}_3$ )

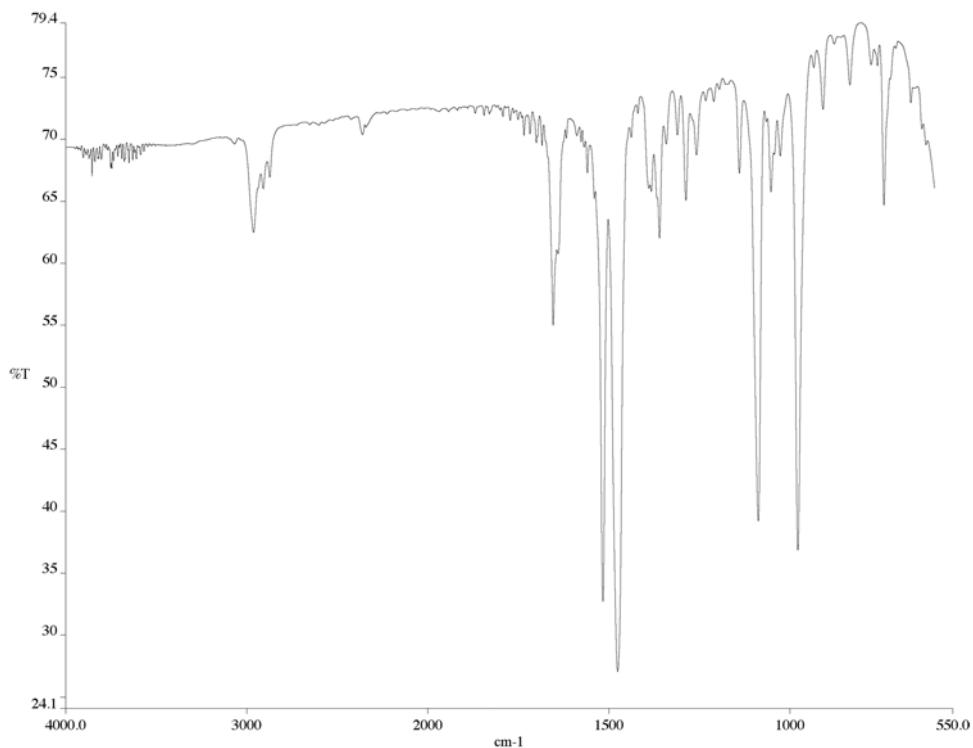


Figure A7.41 IR of compound **312** (NaCl/film)

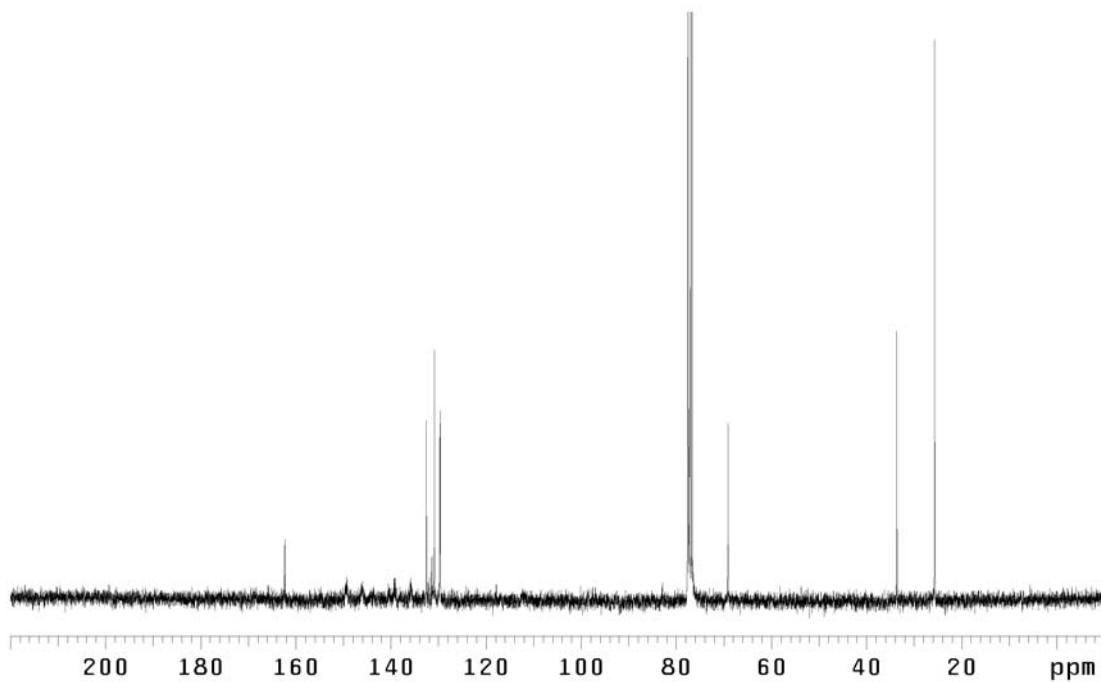


Figure A7.42  $^{13}\text{C}$  NMR of compound **312** (75 MHz,  $\text{CDCl}_3$ )

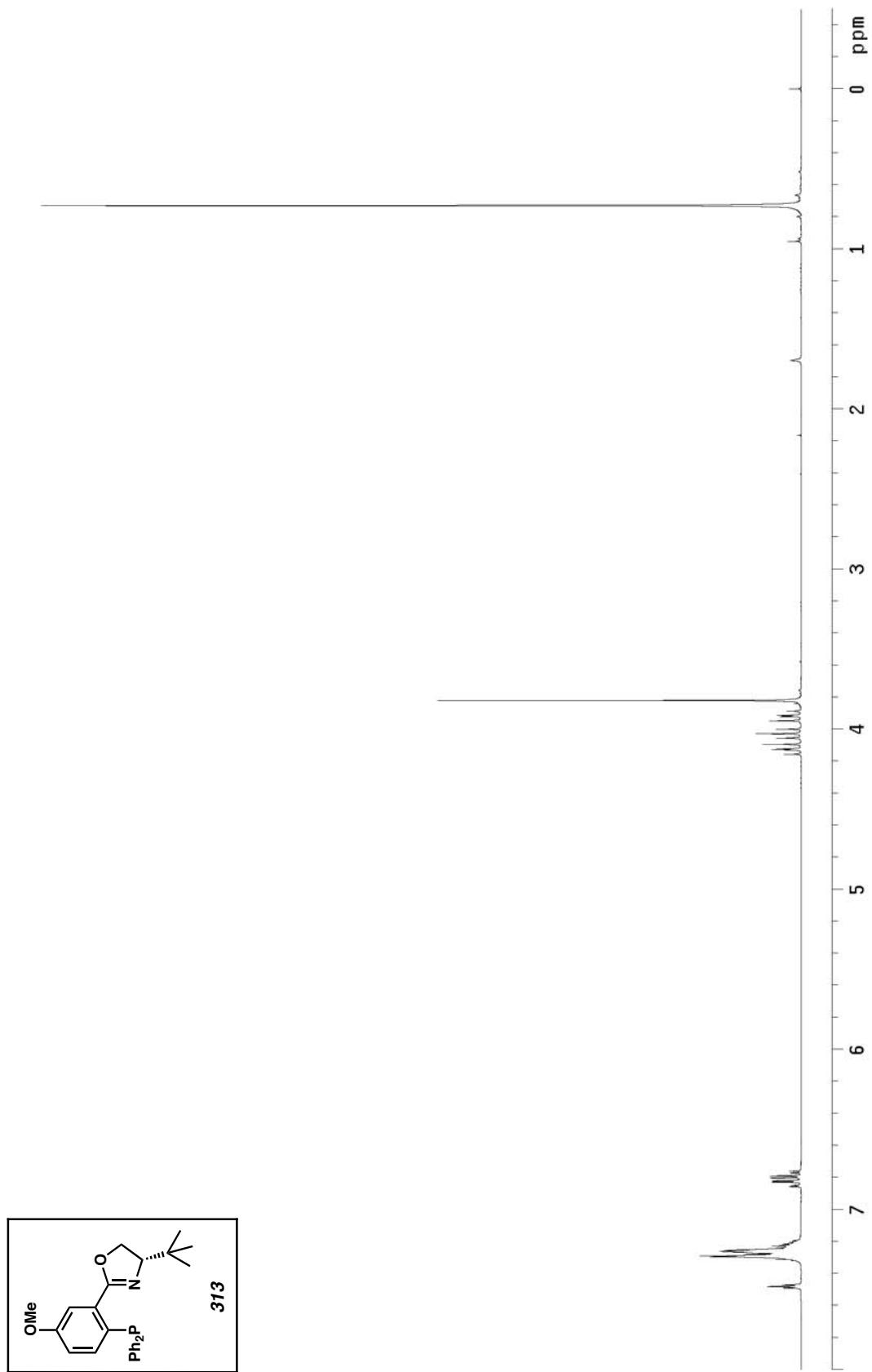


Figure A7.43 <sup>1</sup>H NMR of compound 313 (300 MHz, CDCl<sub>3</sub>)

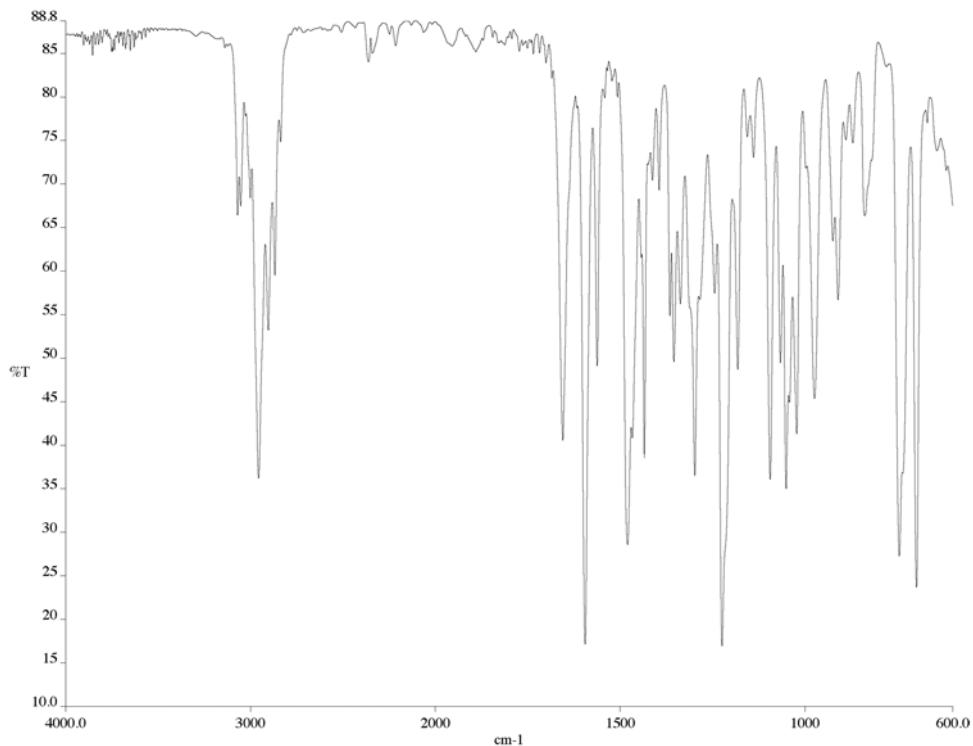


Figure A7.44 IR of compound **313** (NaCl/film)

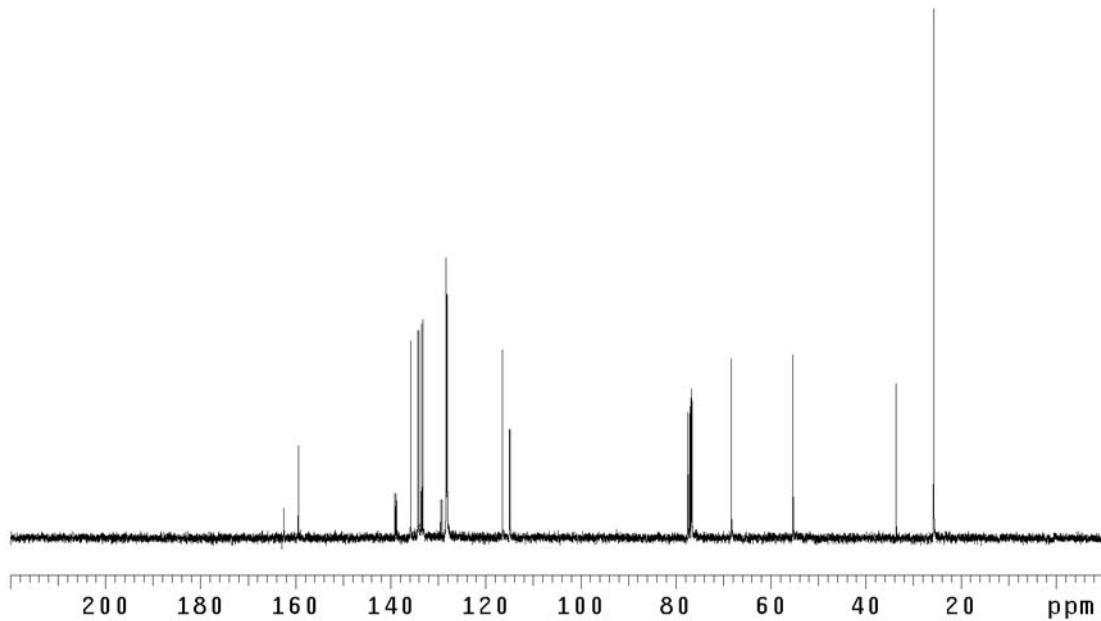


Figure A7.45  $^{13}\text{C}$  NMR of compound **313** (75 MHz,  $\text{CDCl}_3$ )

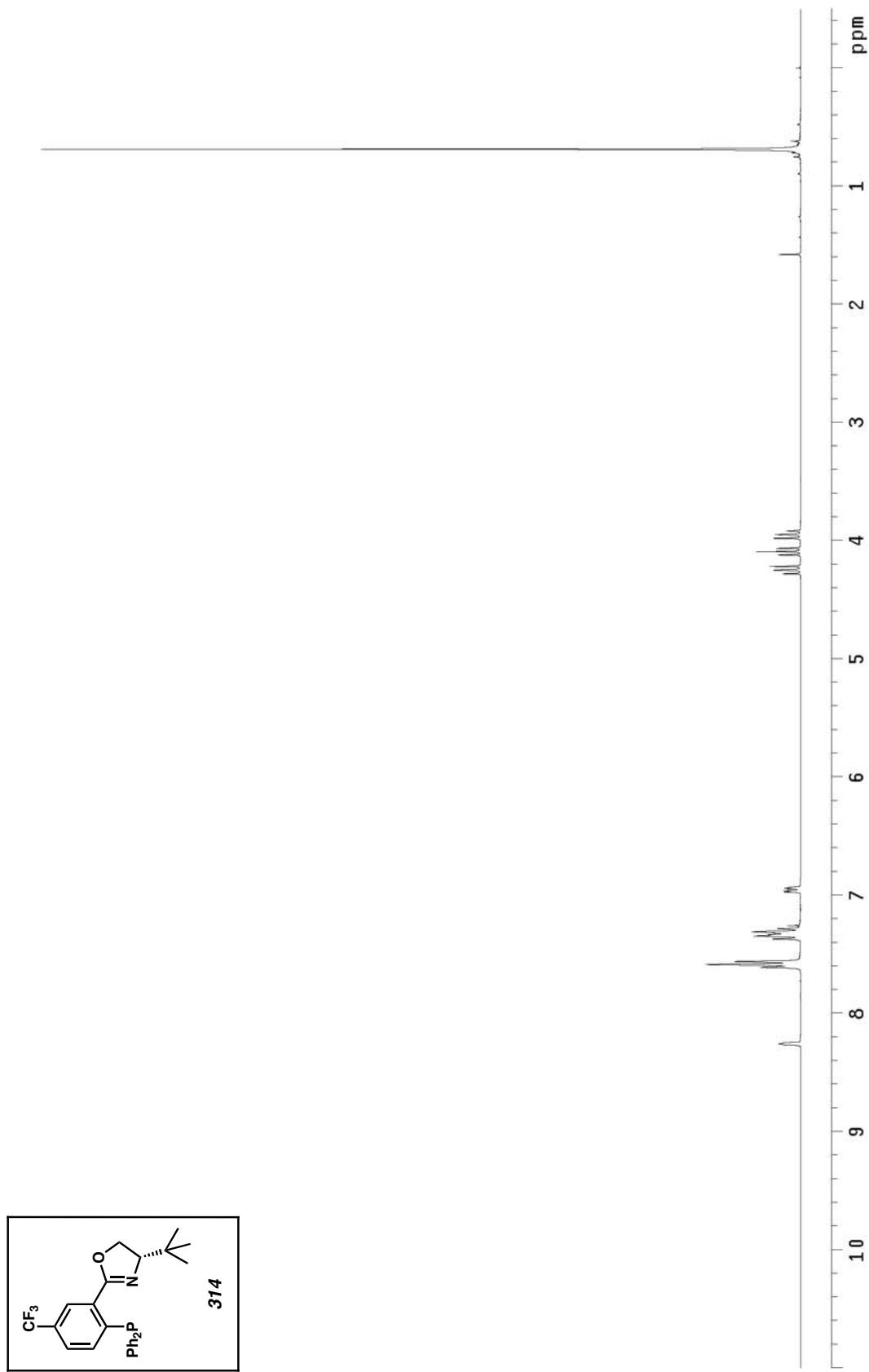


Figure A7.46  $^1\text{H}$  NMR of compound 314 (300 MHz,  $\text{CDCl}_3$ )

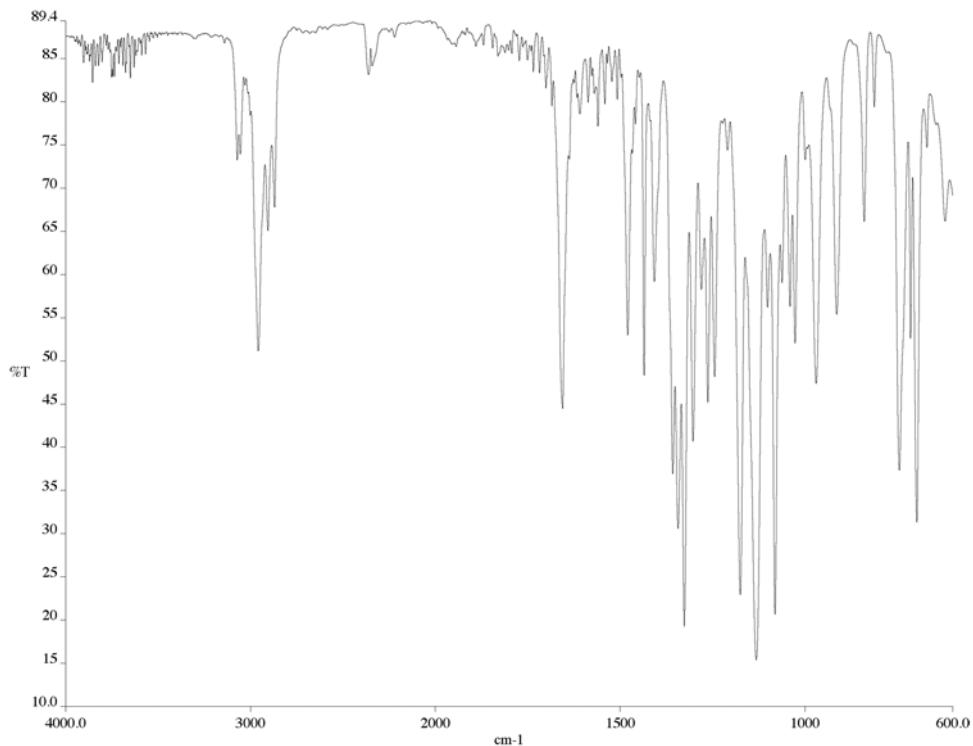


Figure A7.47 IR of compound **314** (NaCl/film)

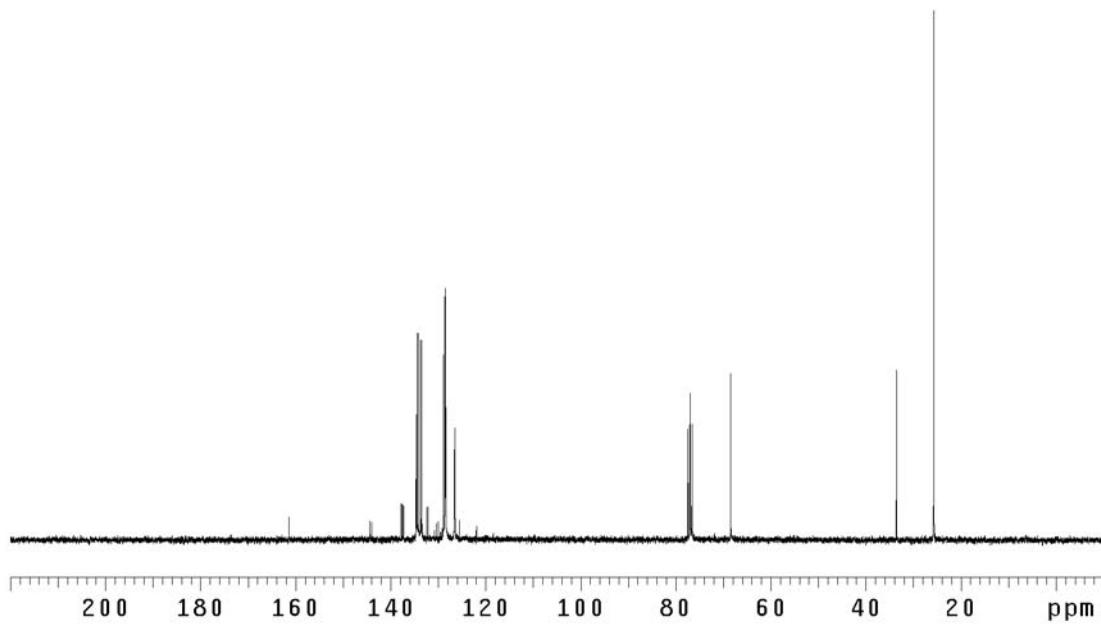


Figure A7.48 <sup>13</sup>C NMR of compound **314** (75 MHz, CDCl<sub>3</sub>)

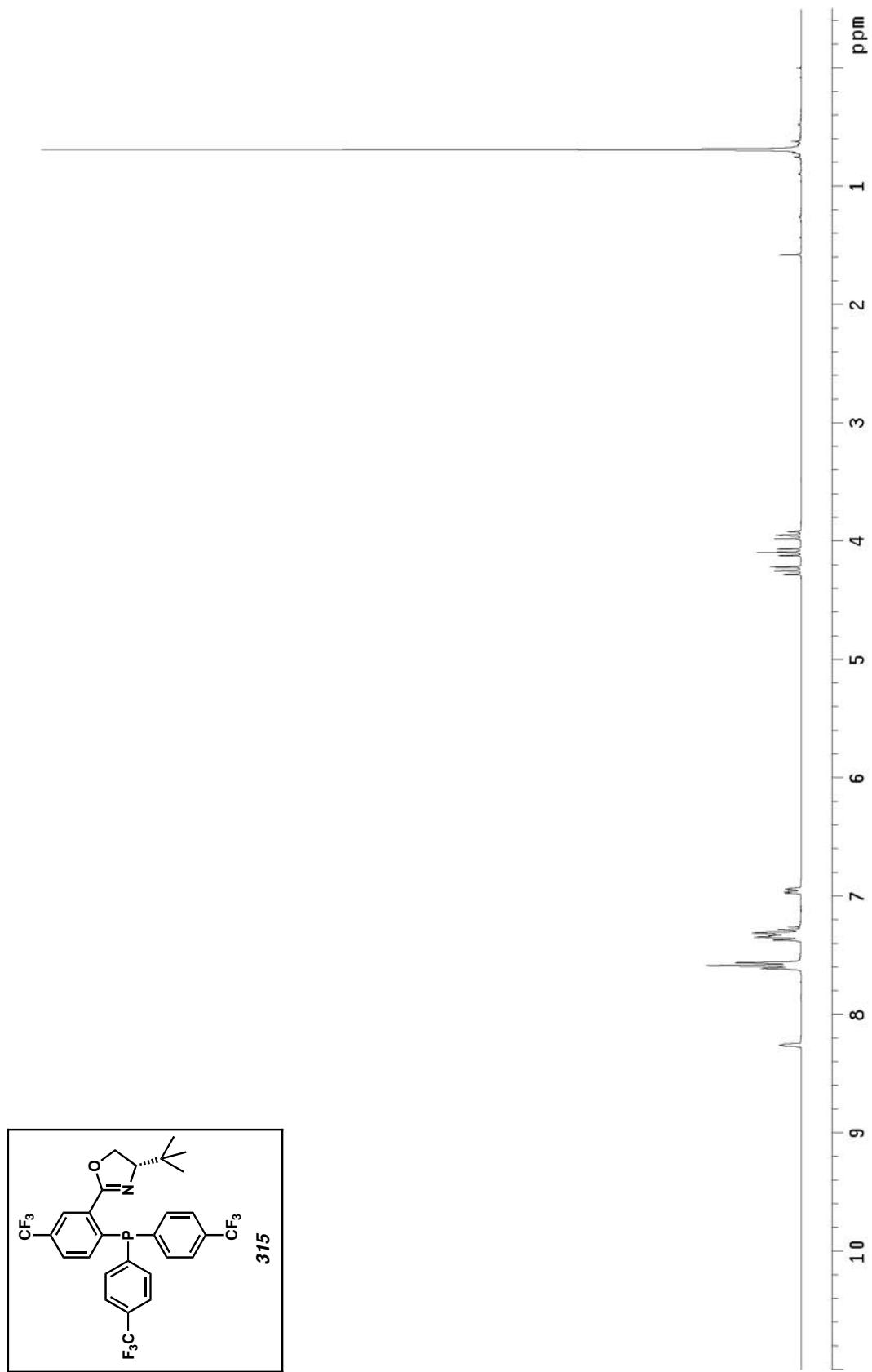


Figure A7.49  $^1\text{H}$  NMR of compound 315 (300 MHz,  $\text{CDCl}_3$ )

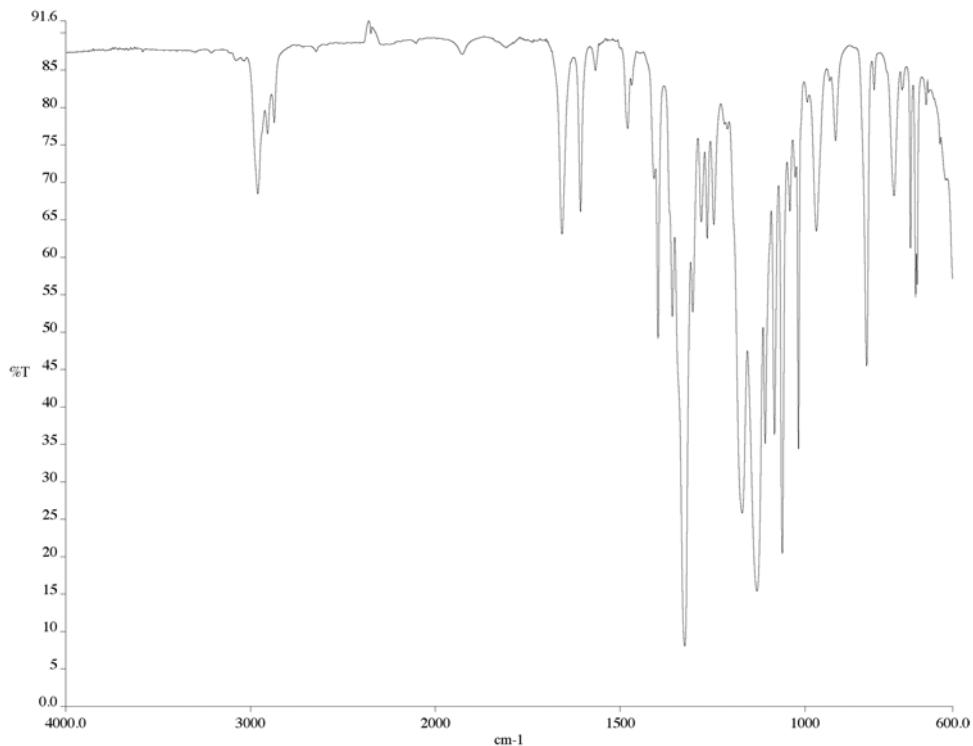


Figure A7.50 IR of compound **315** (NaCl/film)

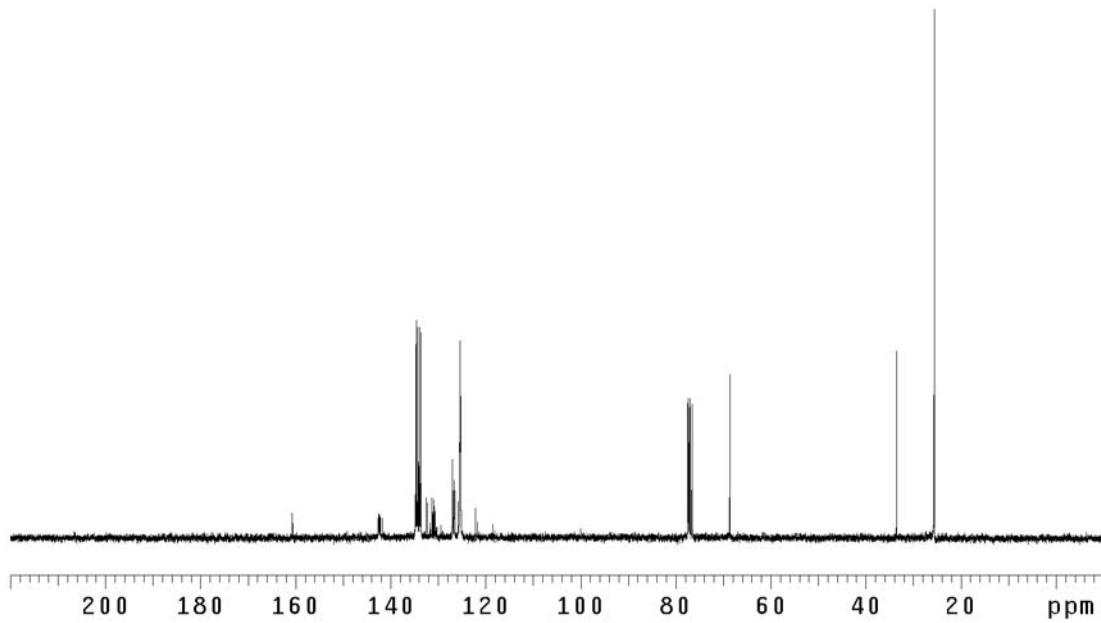


Figure A7.51 <sup>13</sup>C NMR of compound **315** (75 MHz, CDCl<sub>3</sub>)

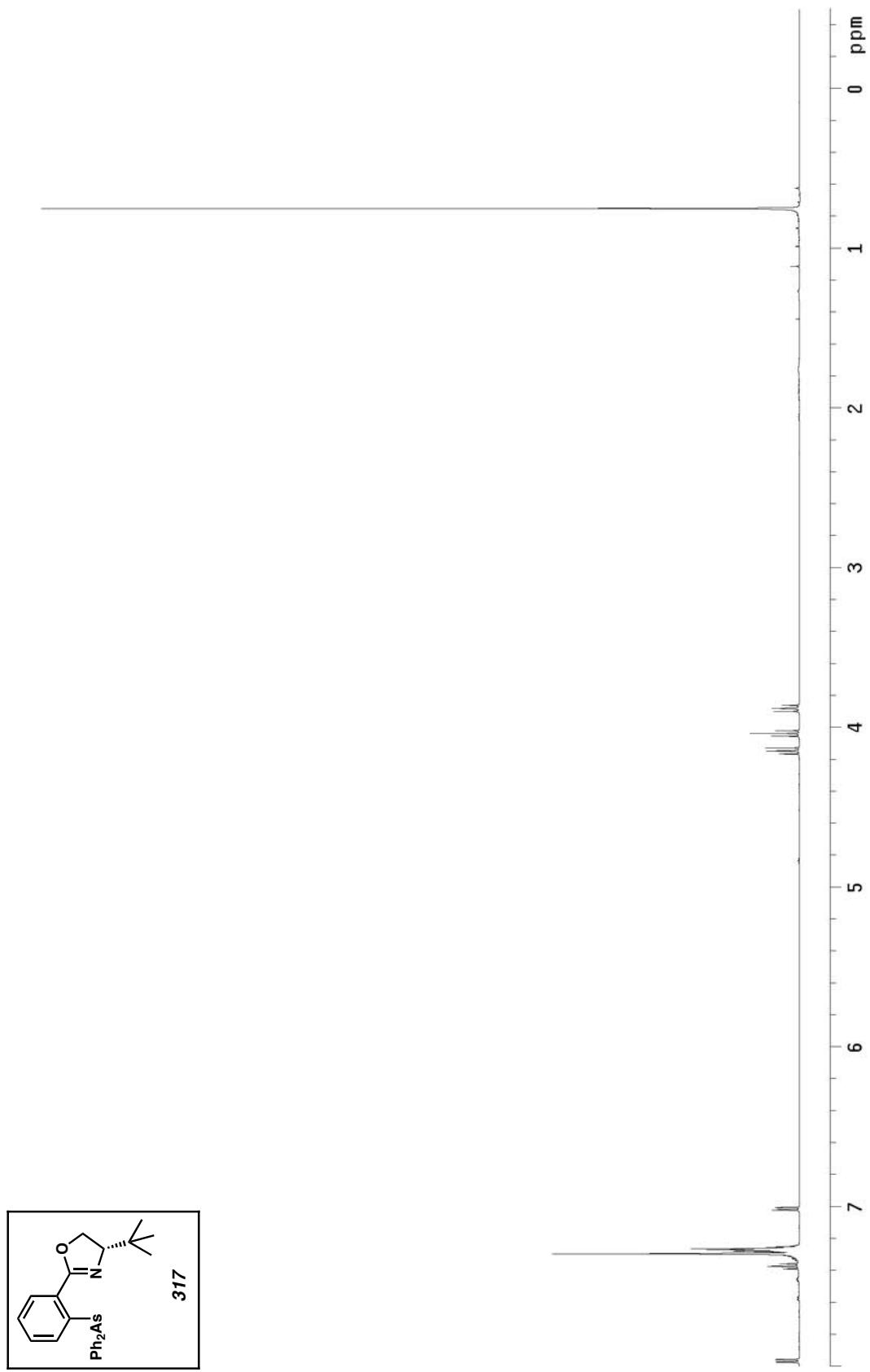


Figure A7.52  $^1\text{H}$  NMR of compound 317 (500 MHz,  $\text{CDCl}_3$ )

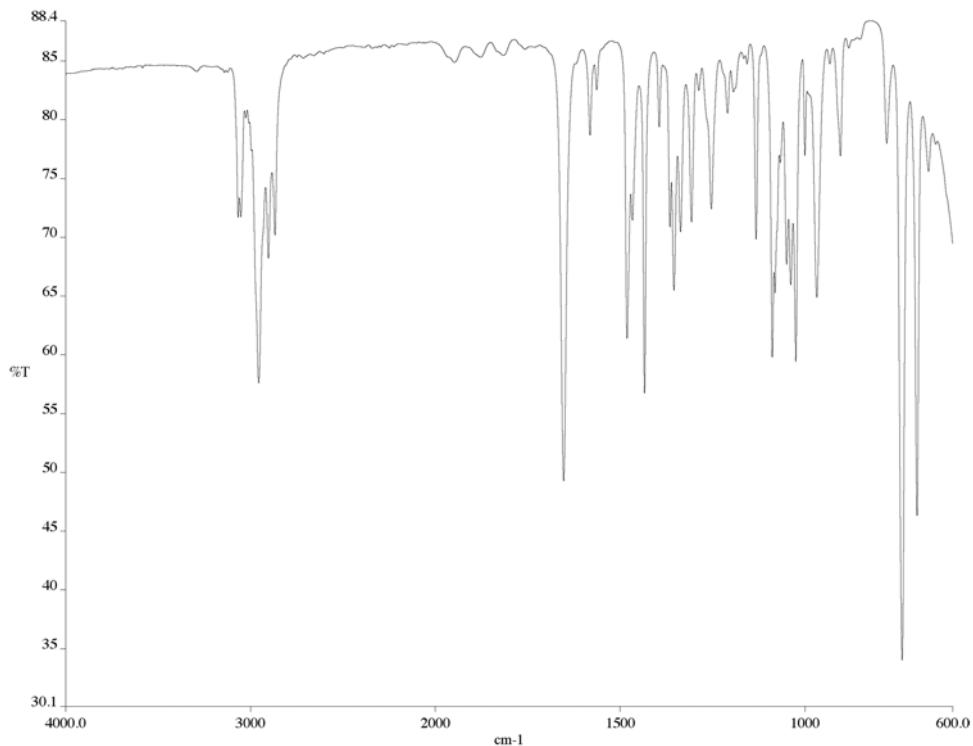


Figure A7.53 IR of compound **317** (NaCl/film)

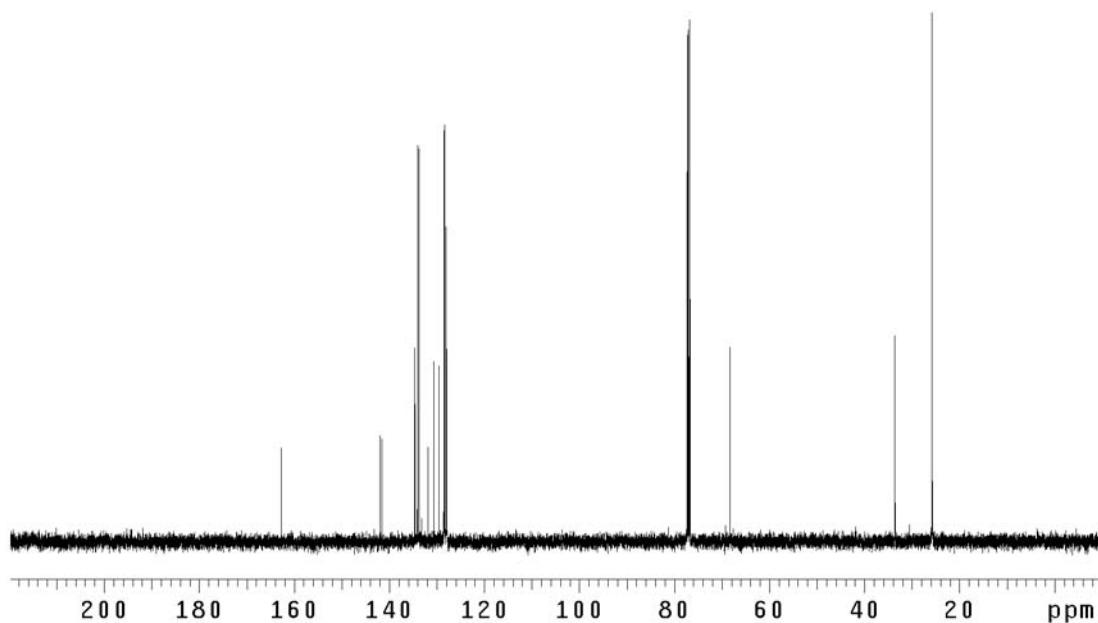


Figure A7.54 <sup>13</sup>C NMR of compound **317** (125 MHz, CDCl<sub>3</sub>)

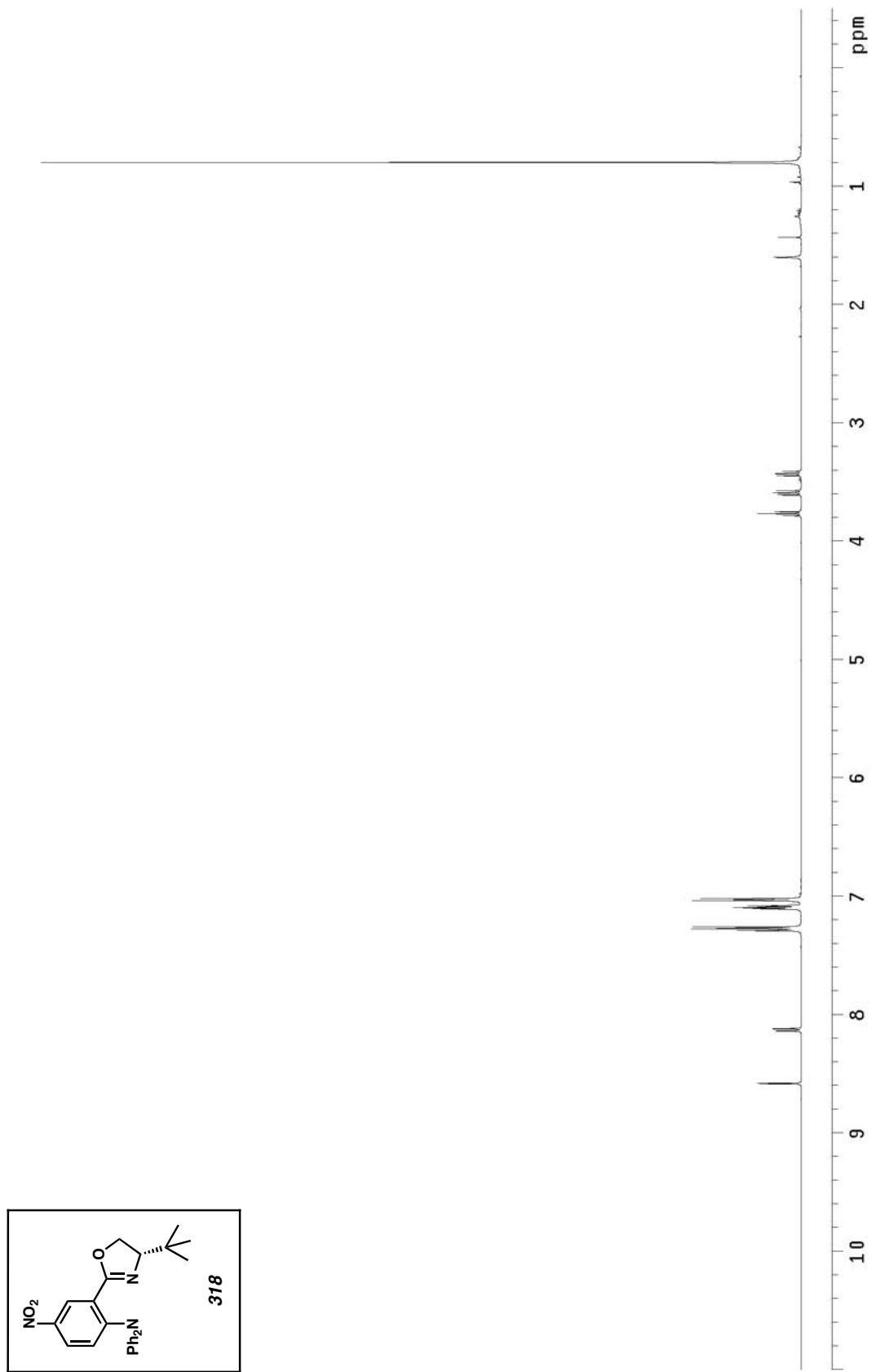


Figure A7.55  $^1\text{H}$  NMR of compound 318 (500 MHz,  $\text{CDCl}_3$ )

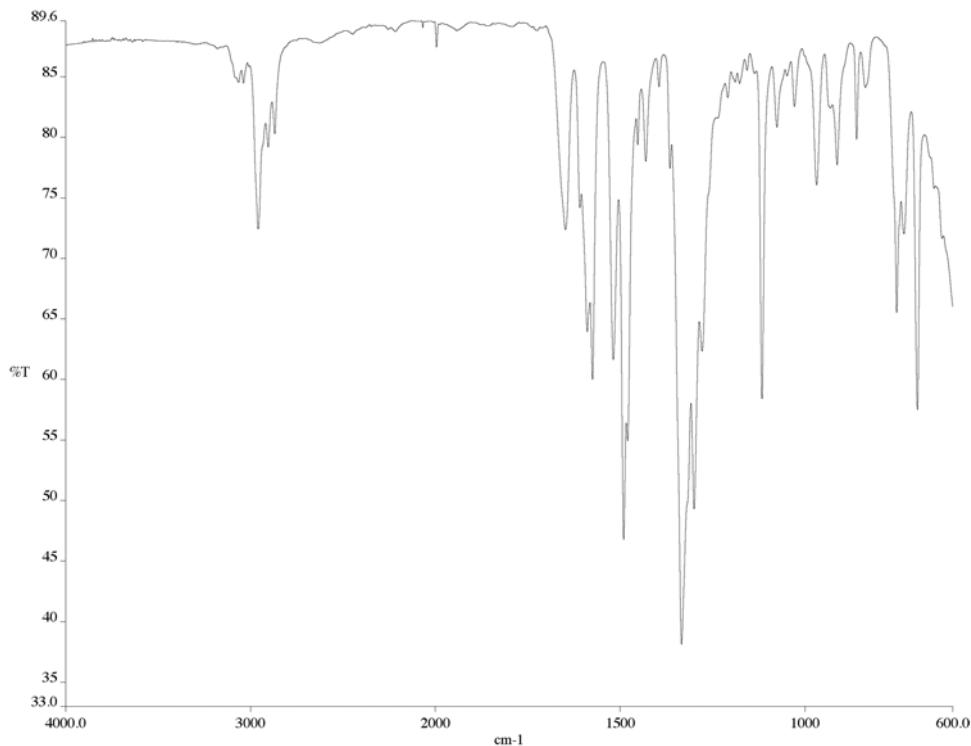


Figure A7.56 IR of compound **318** (NaCl/film)

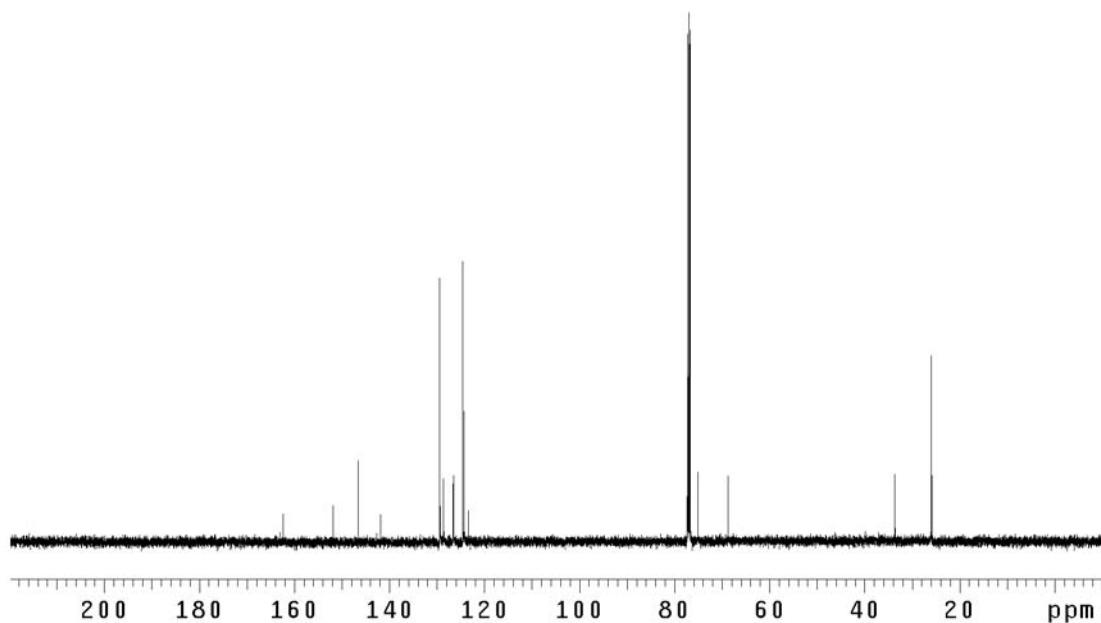


Figure A7.57 <sup>13</sup>C NMR of compound **318** (125 MHz, CDCl<sub>3</sub>)

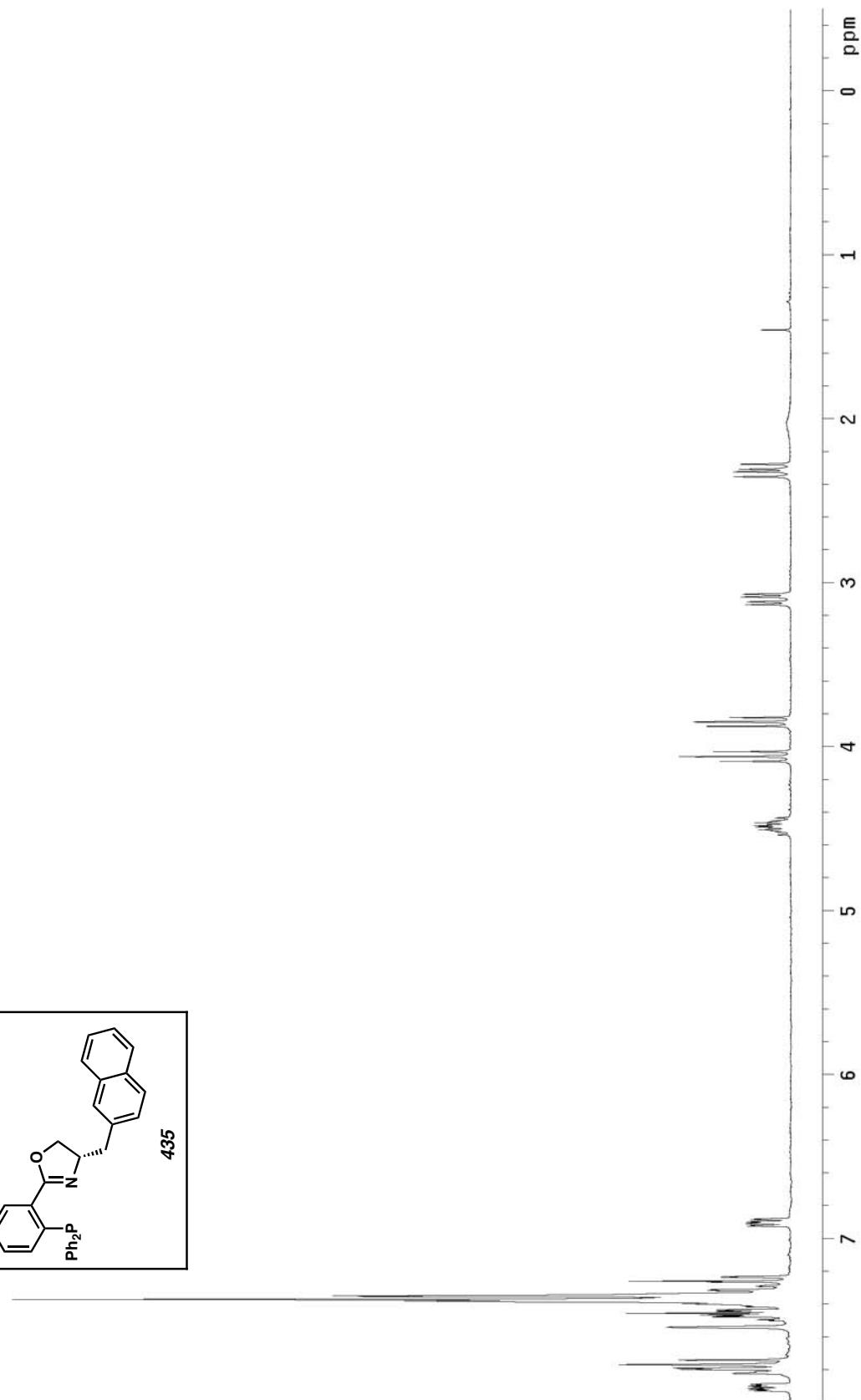
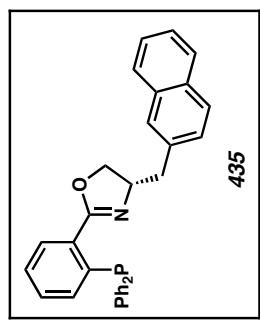


Figure A7.58  $^1\text{H}$  NMR of compound 435 (300 MHz,  $\text{CDCl}_3$ )

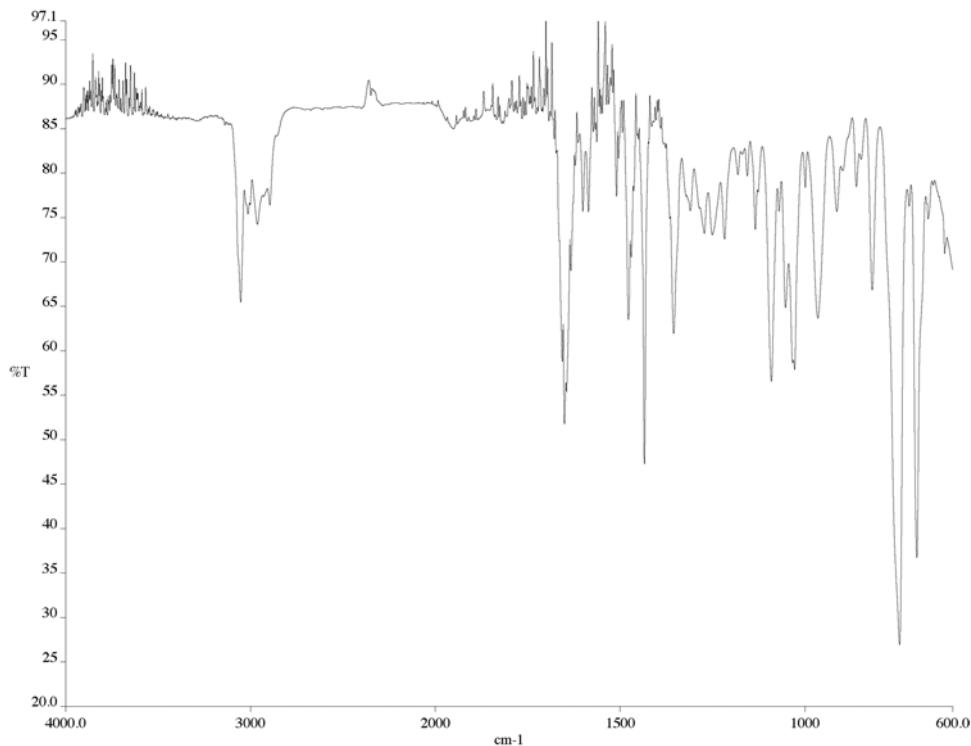


Figure A7.59 IR of compound **435** (NaCl/film)

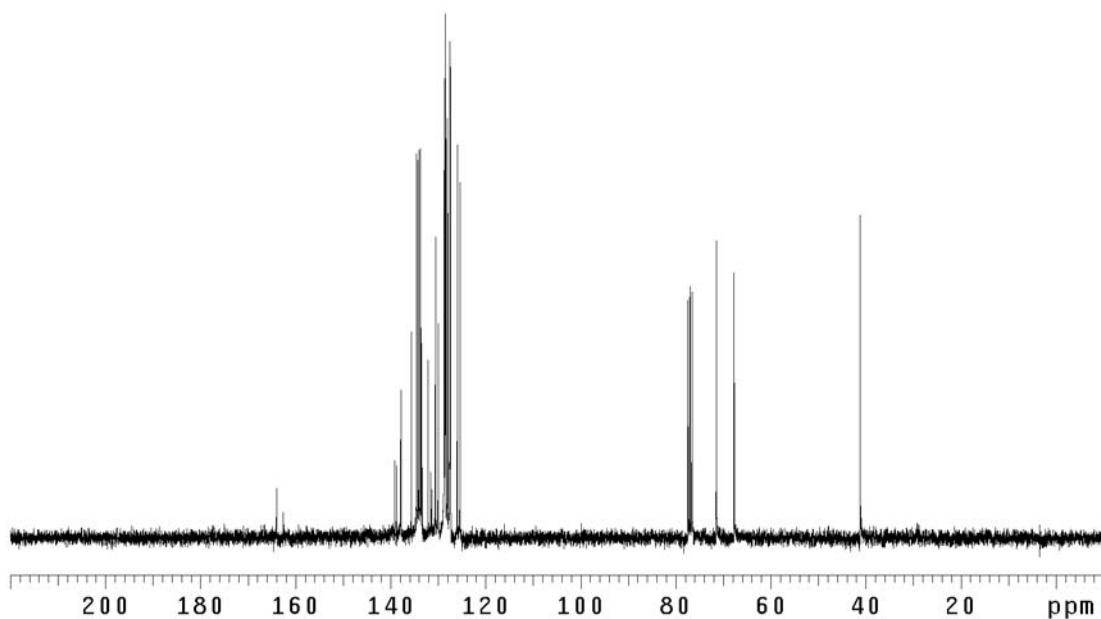


Figure A7.60 <sup>13</sup>C NMR of compound **435** (75 MHz, CDCl<sub>3</sub>)

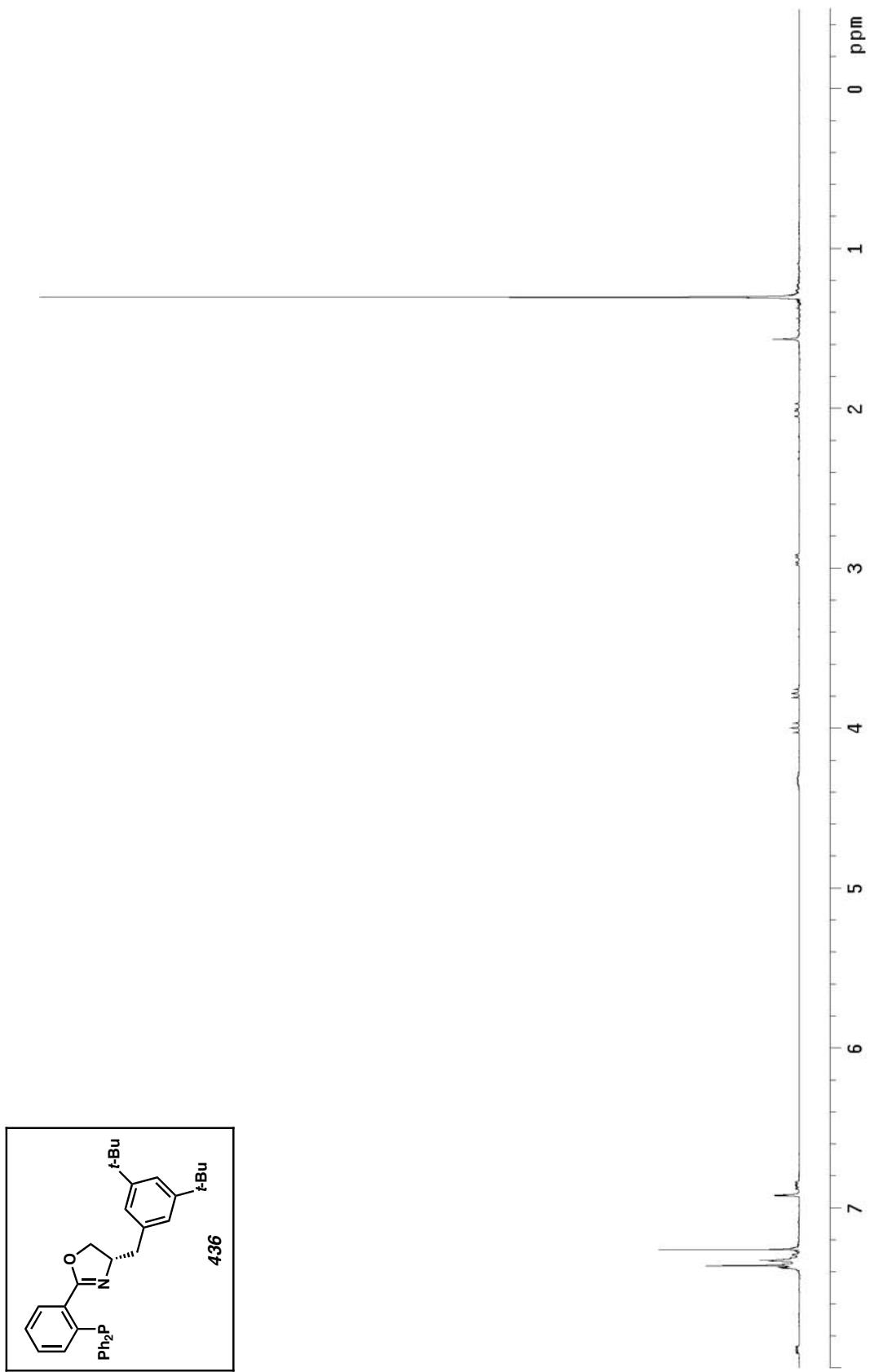


Figure A7.61 <sup>1</sup>H NMR of compound **436** (300 MHz, CDCl<sub>3</sub>)

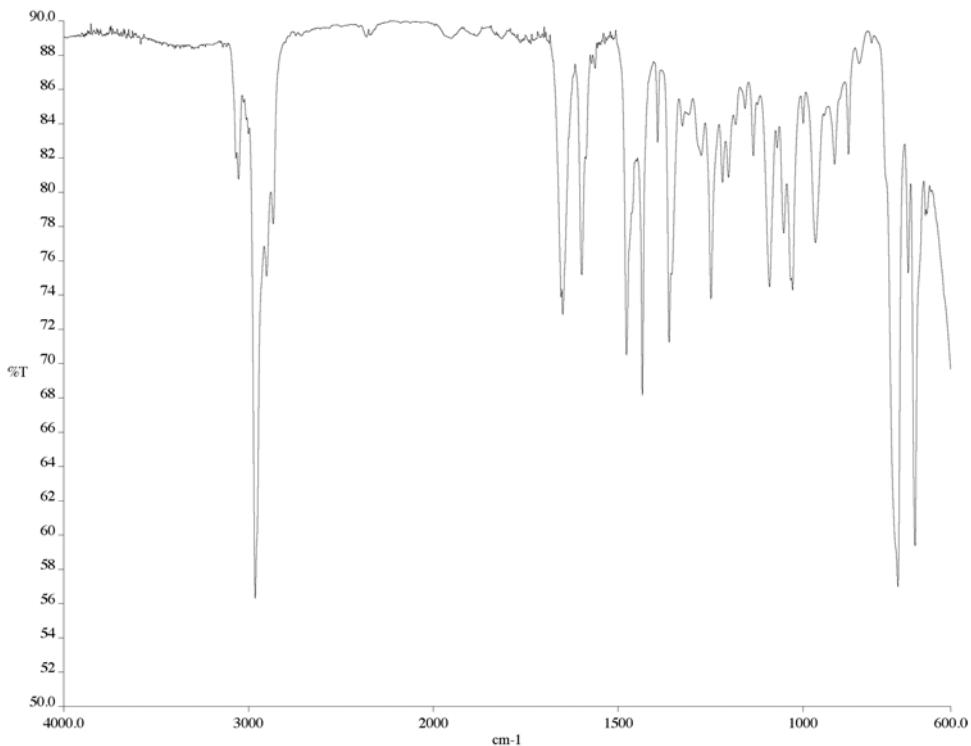


Figure A7.62 IR of compound **436** (NaCl/film)

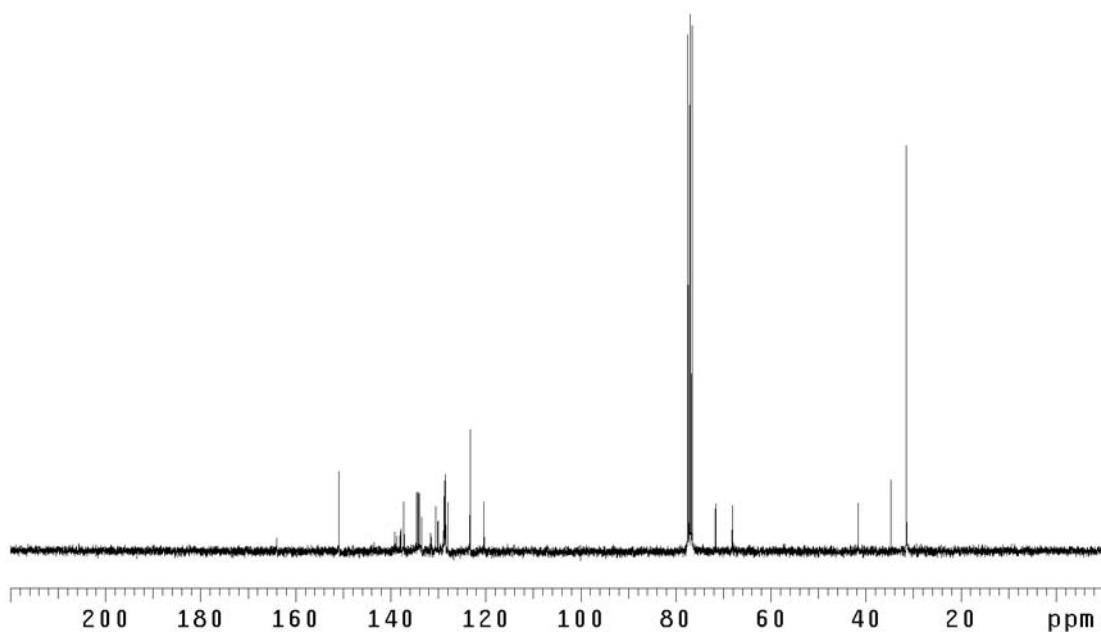


Figure A7.63 <sup>13</sup>C NMR of compound **436** (75 MHz, CDCl<sub>3</sub>)

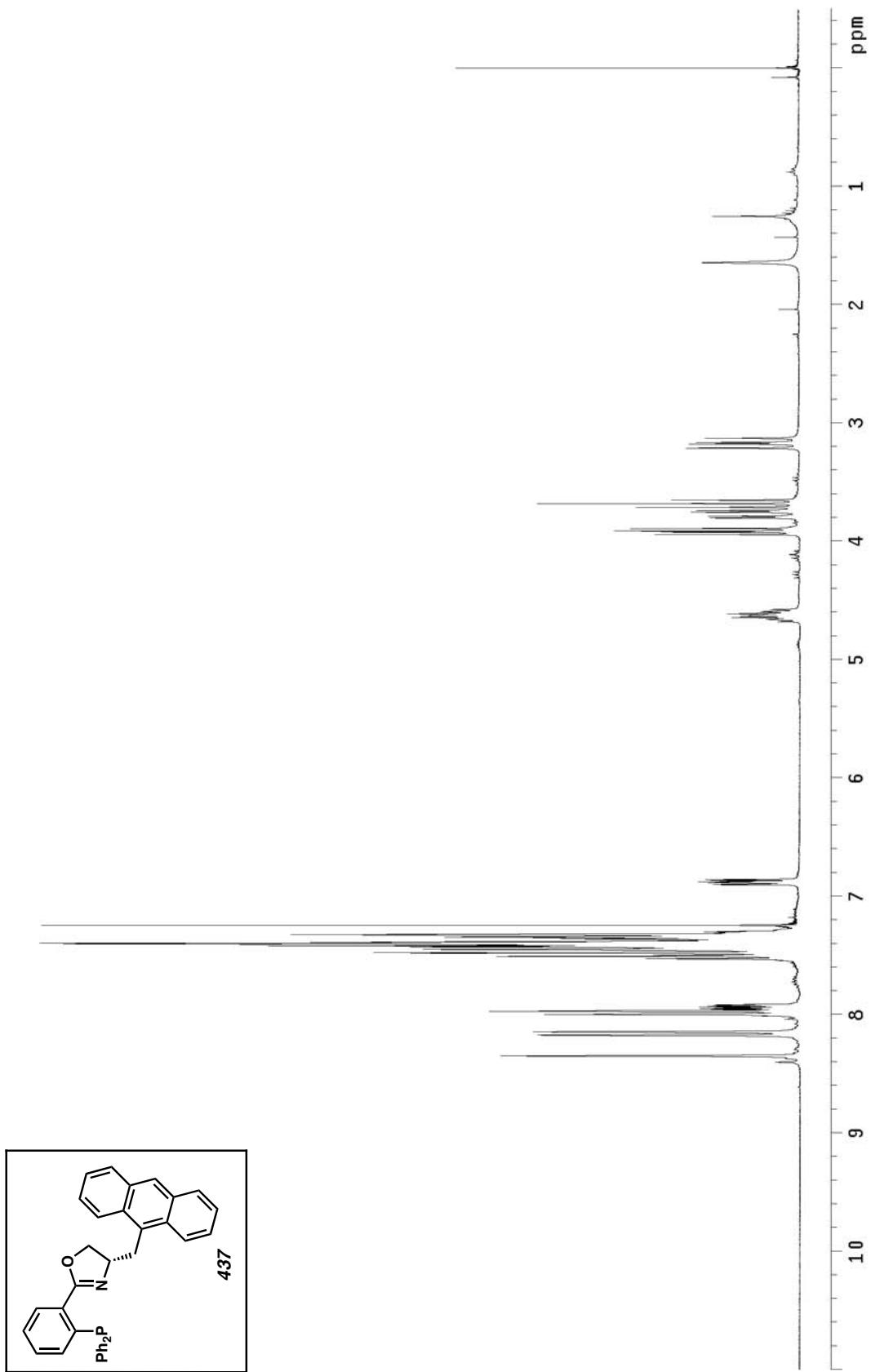


Figure A7.64 <sup>1</sup>H NMR of compound 437 (300 MHz, CDCl<sub>3</sub>)

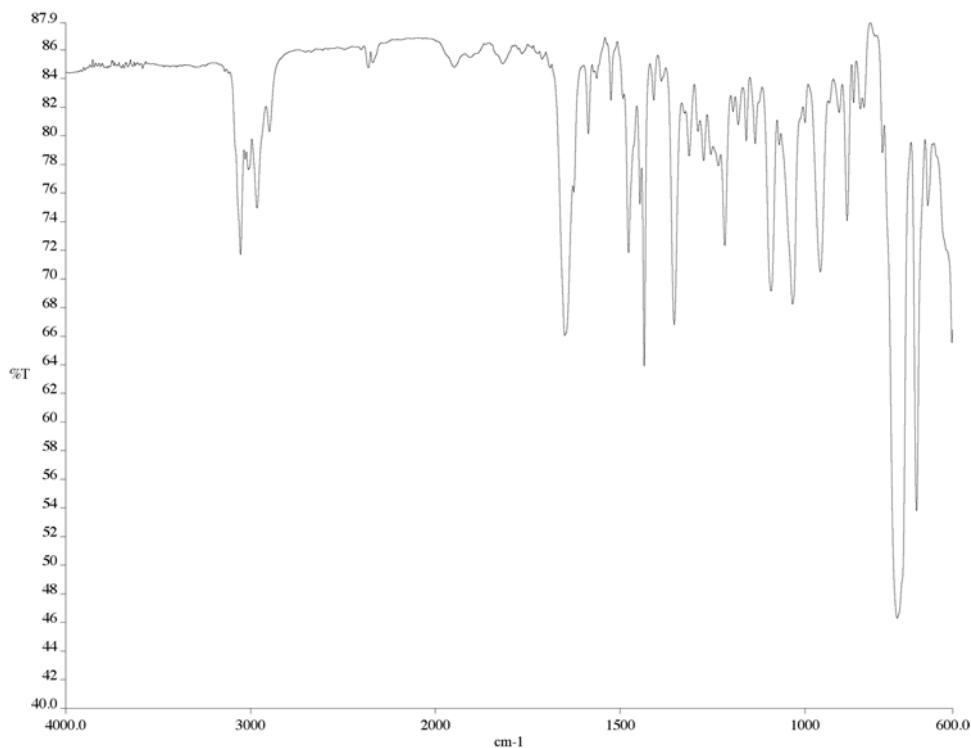


Figure A7.65 IR of compound **437** (NaCl/film)

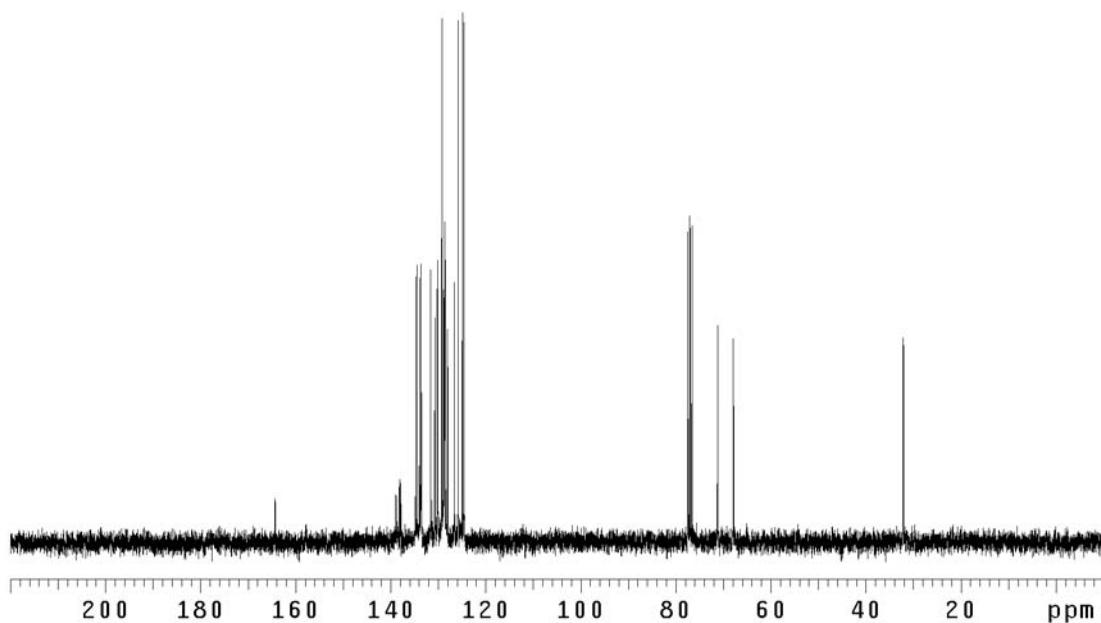


Figure A7.66 <sup>13</sup>C NMR of compound **437** (75 MHz, CDCl<sub>3</sub>)

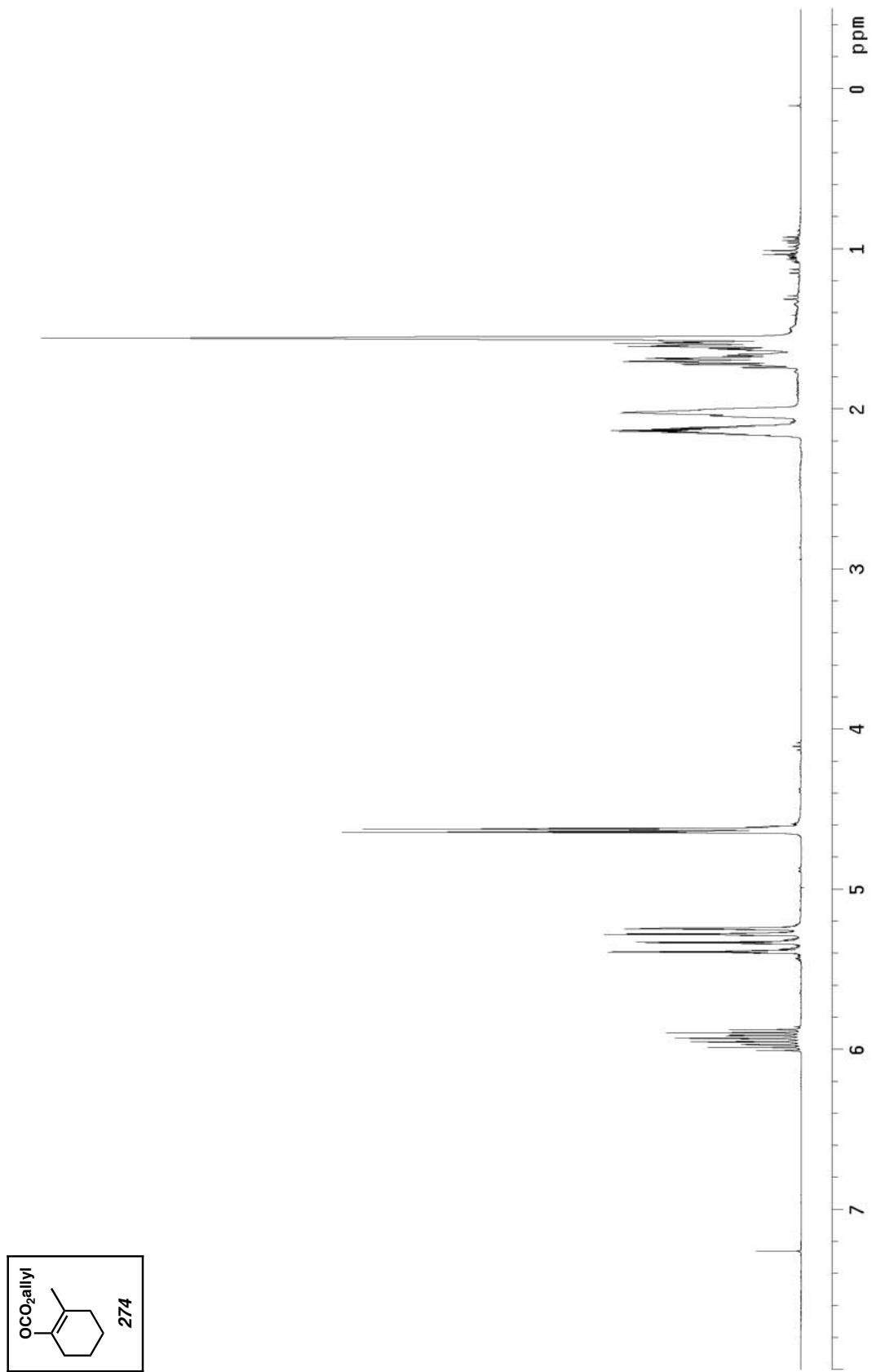
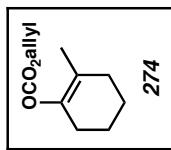


Figure A7.67 <sup>1</sup>H NMR of compound 274 (300 MHz, CDCl<sub>3</sub>)



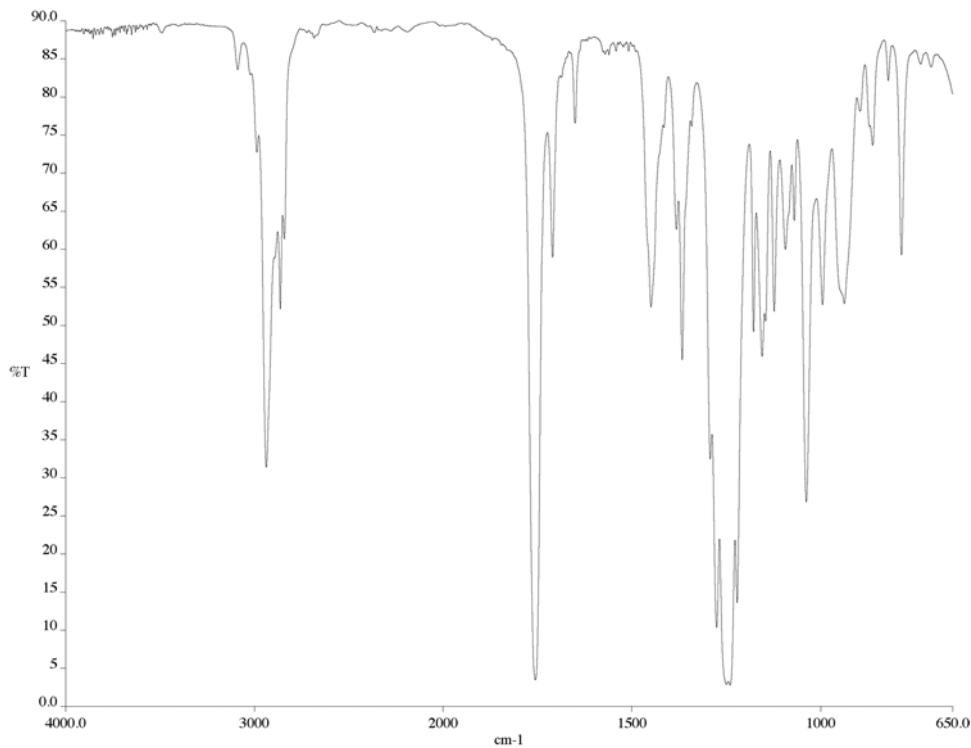


Figure A7.68 IR of compound **274** (NaCl/film)

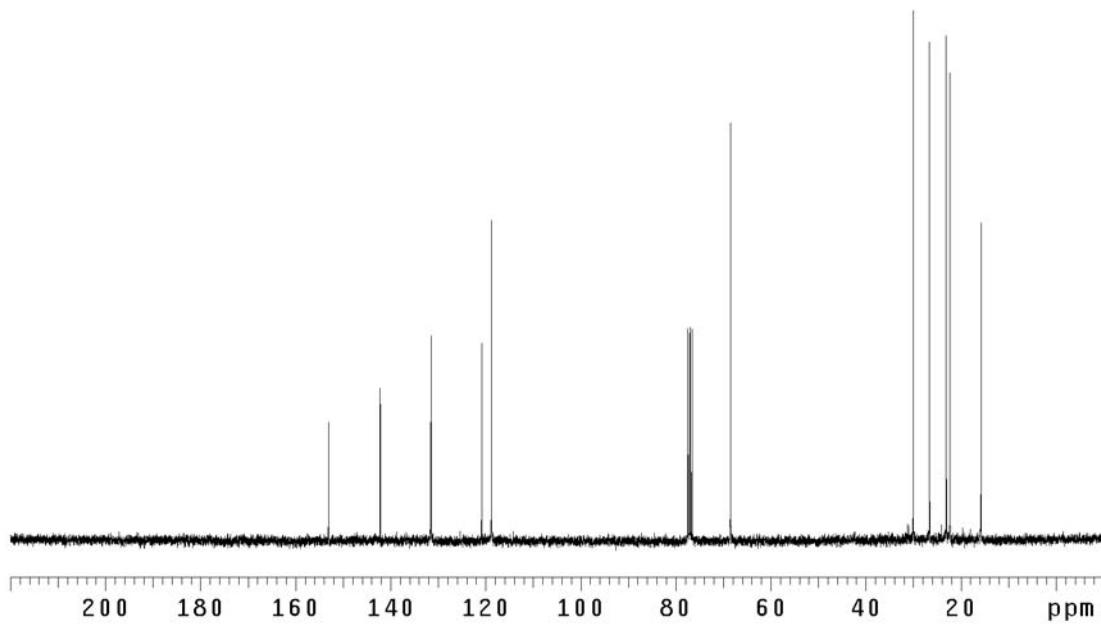


Figure A7.69 <sup>13</sup>C NMR of compound **274** (75 MHz, CDCl<sub>3</sub>)

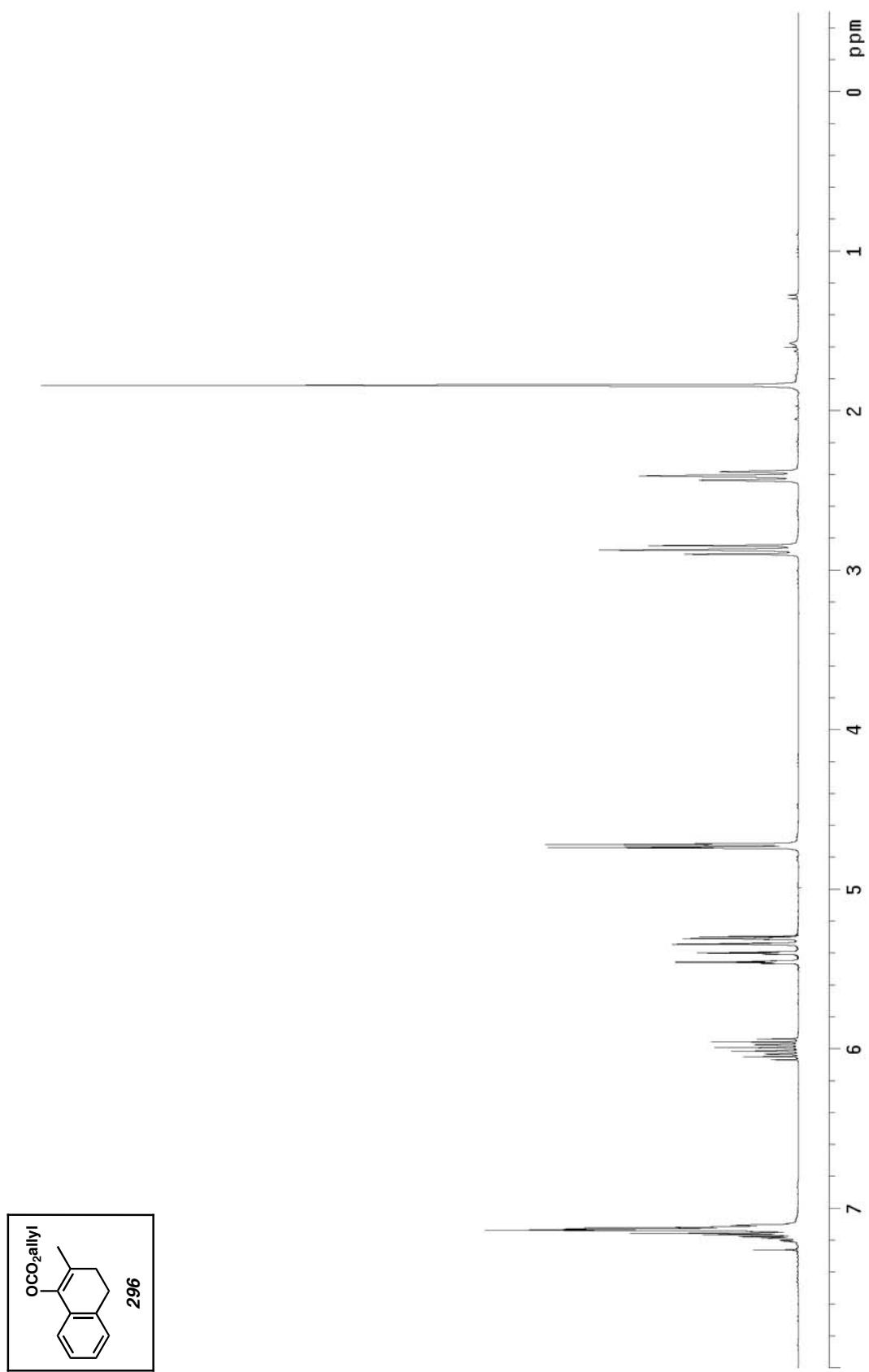


Figure A7.70 <sup>1</sup>H NMR of compound 296 (300 MHz, CDCl<sub>3</sub>)

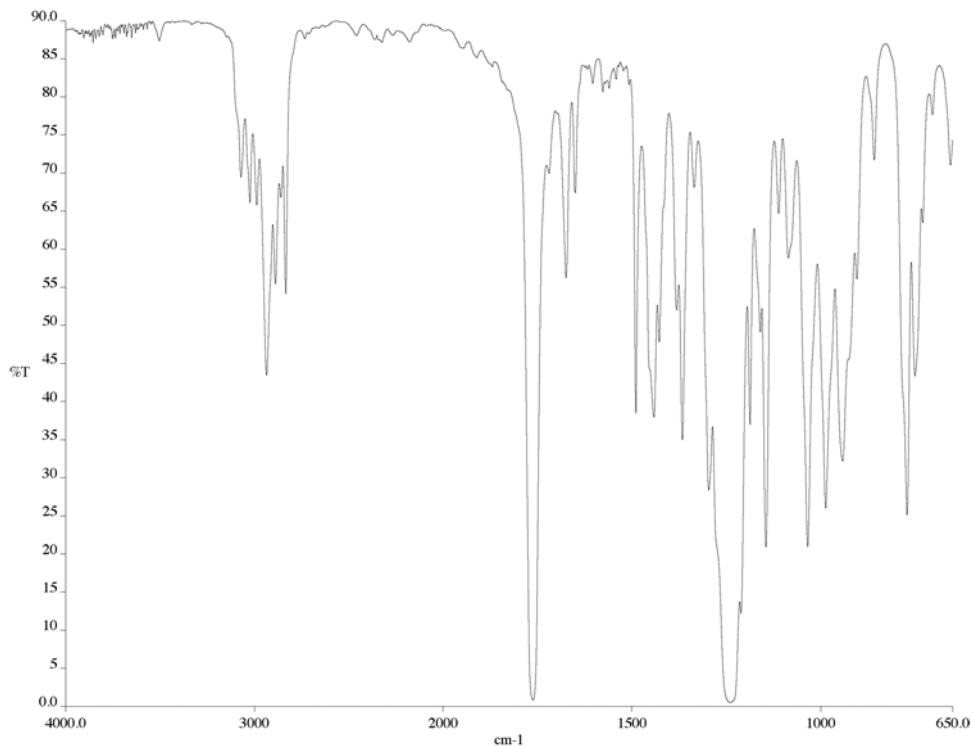


Figure A7.71 IR of compound **296** (NaCl/film)

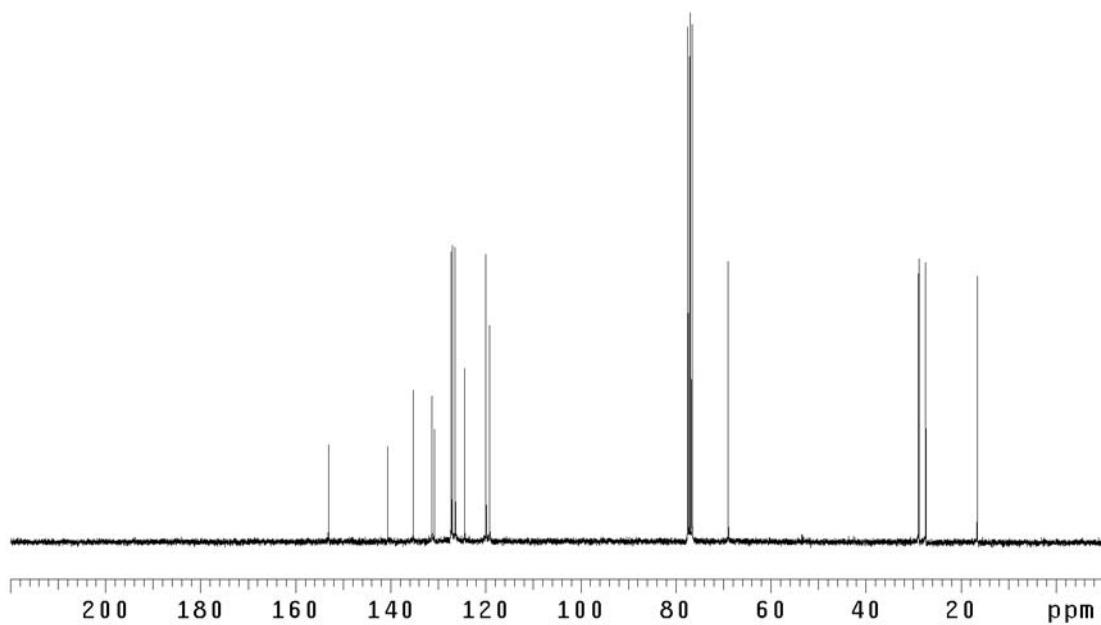


Figure A7.72 <sup>13</sup>C NMR of compound **296** (75 MHz, CDCl<sub>3</sub>)

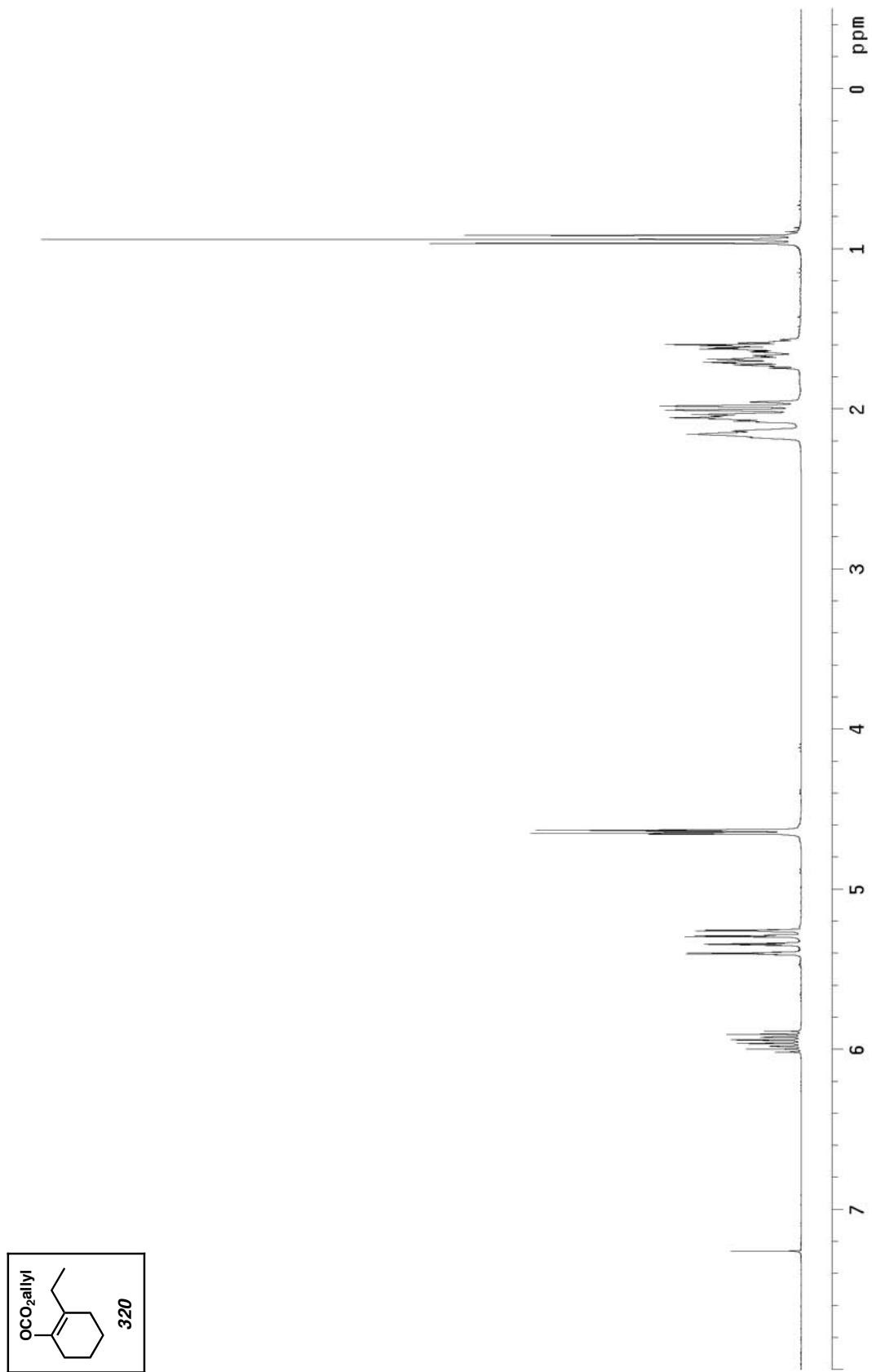
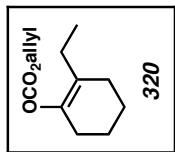


Figure A7.73 <sup>1</sup>H NMR of compound 320 (300 MHz, CDCl<sub>3</sub>)



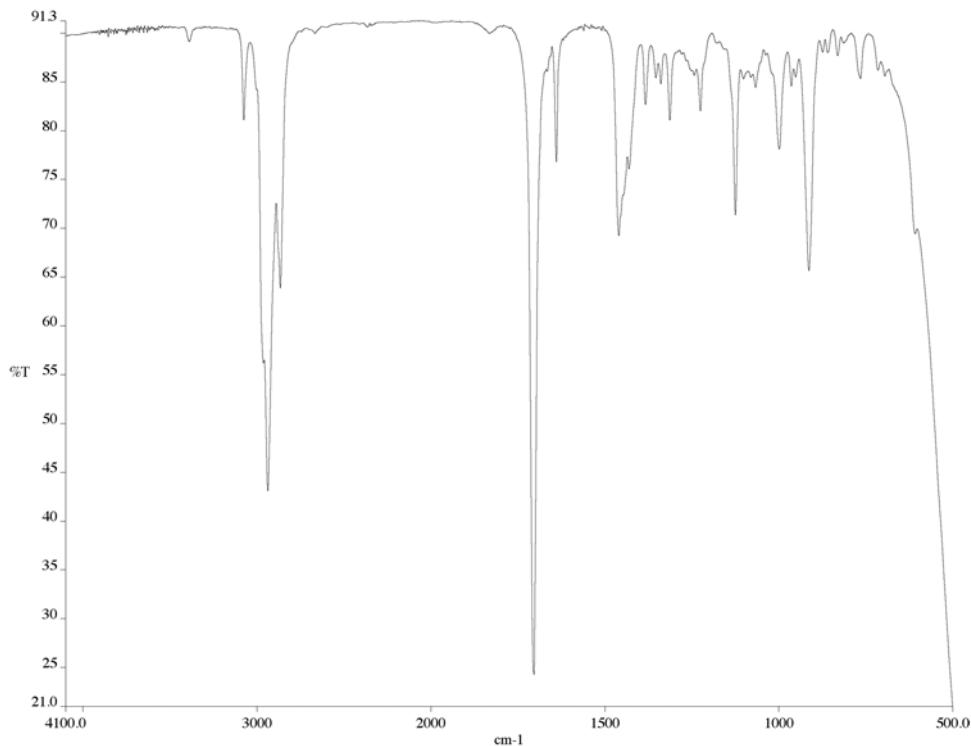


Figure A7.74 IR of compound **320** (NaCl/film)

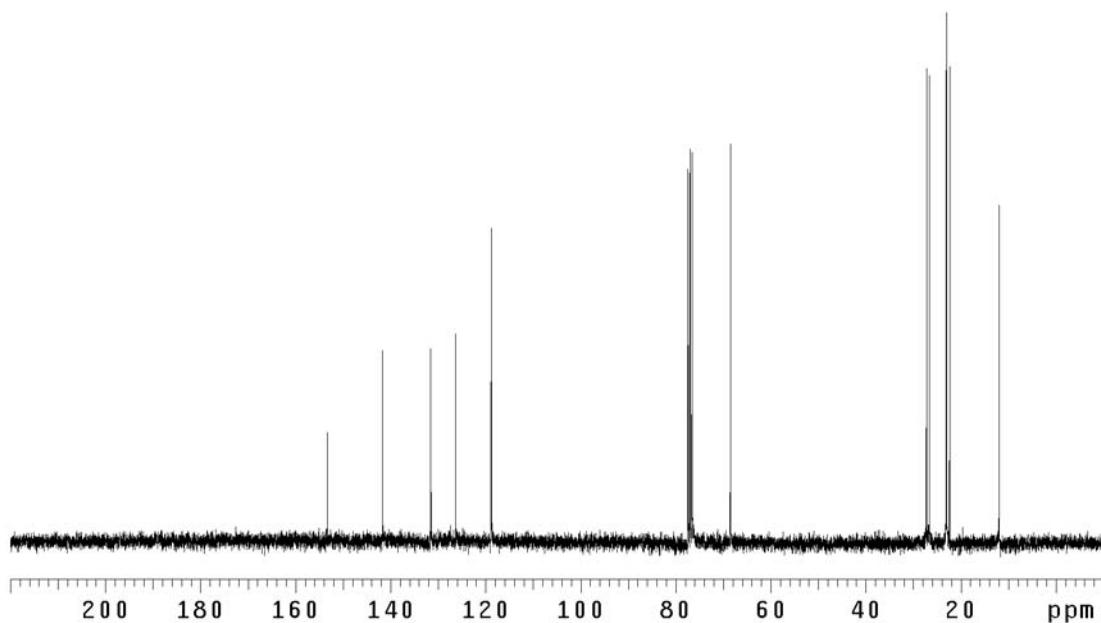


Figure A7.75 <sup>13</sup>C NMR of compound **320** (75 MHz, CDCl<sub>3</sub>)

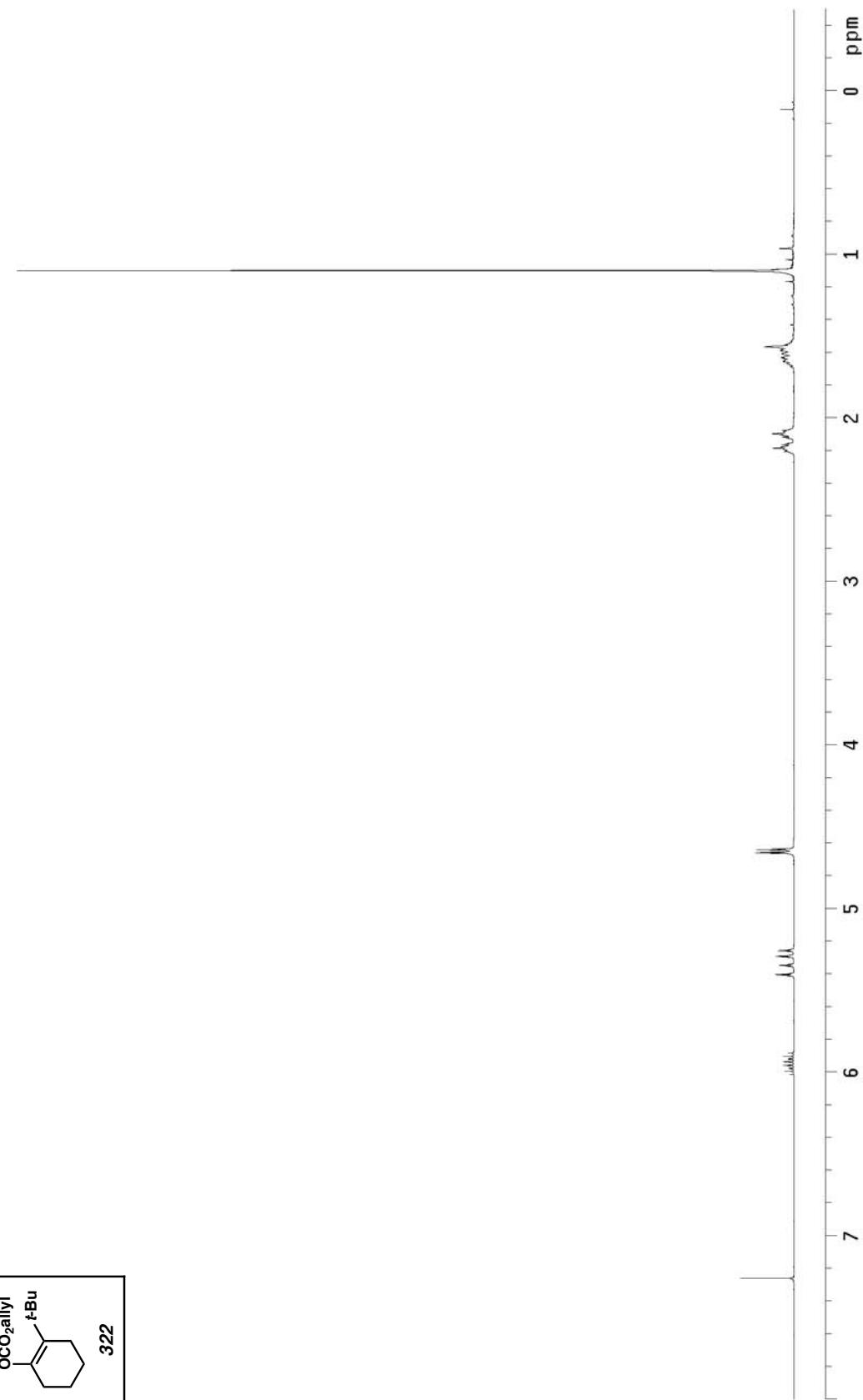
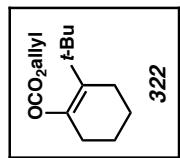


Figure A7.76 <sup>1</sup>H NMR of compound 322 (300 MHz, CDCl<sub>3</sub>)



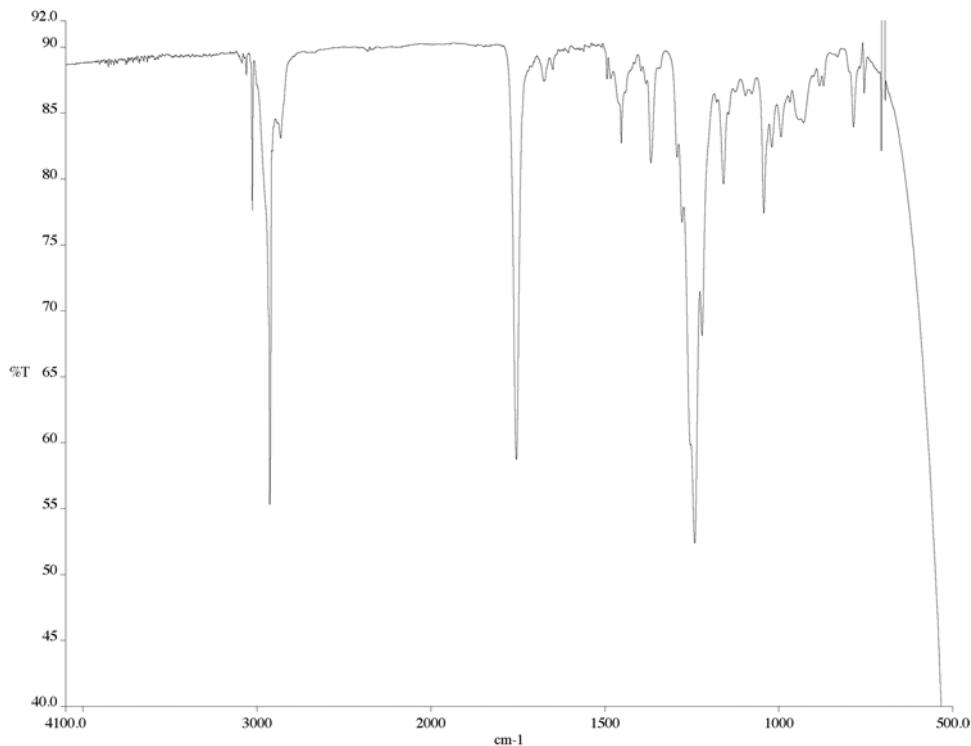


Figure A7.77 IR of compound **322** (NaCl/film)

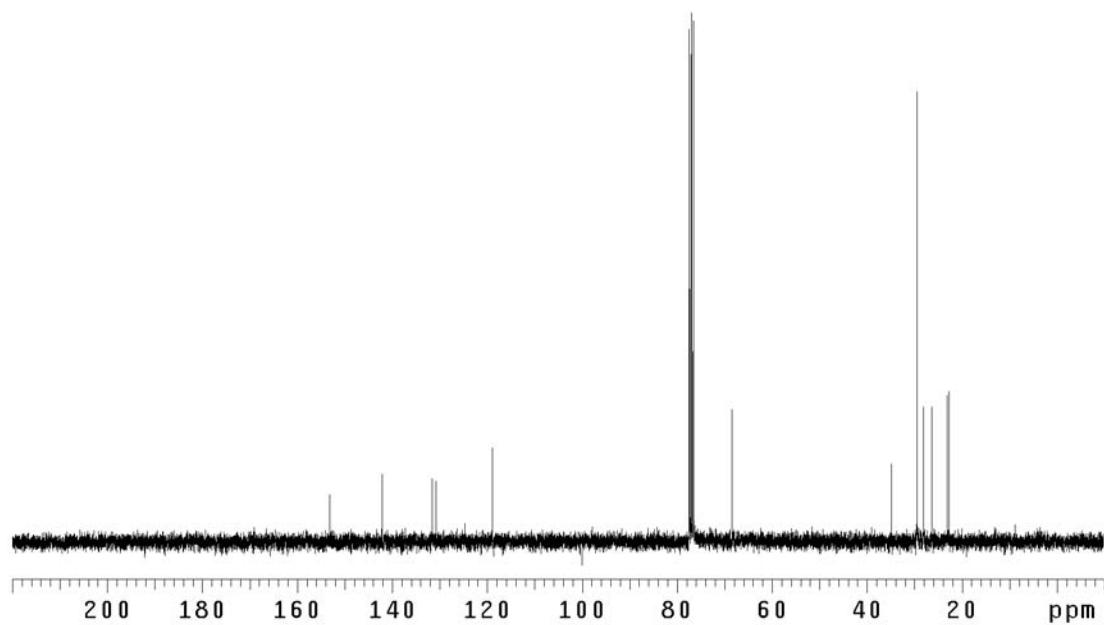


Figure A7.78 <sup>13</sup>C NMR of compound **322** (75 MHz, CDCl<sub>3</sub>)

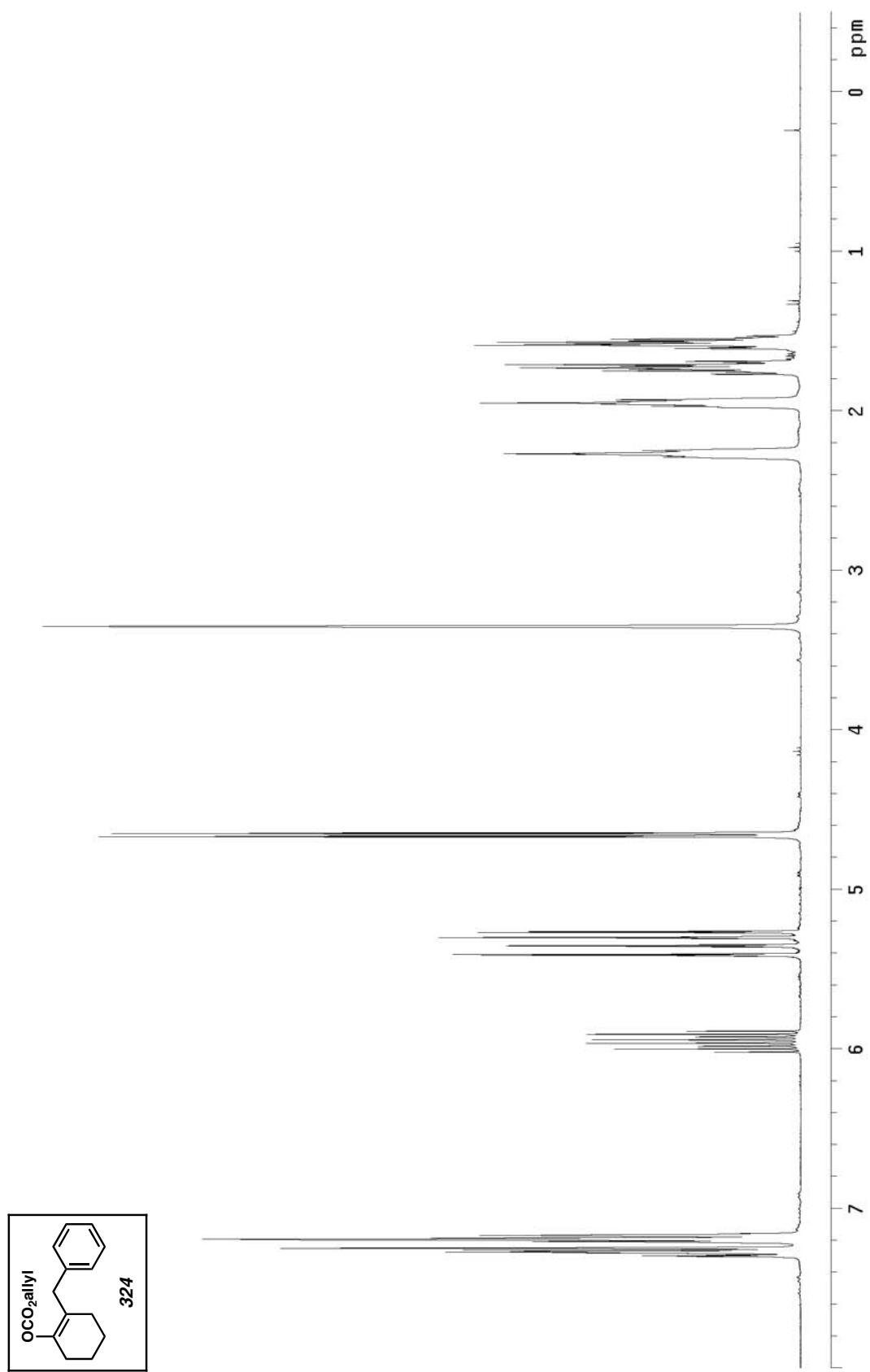


Figure A7.79  $^1\text{H}$  NMR of compound 324 (300 MHz,  $\text{CDCl}_3$ )

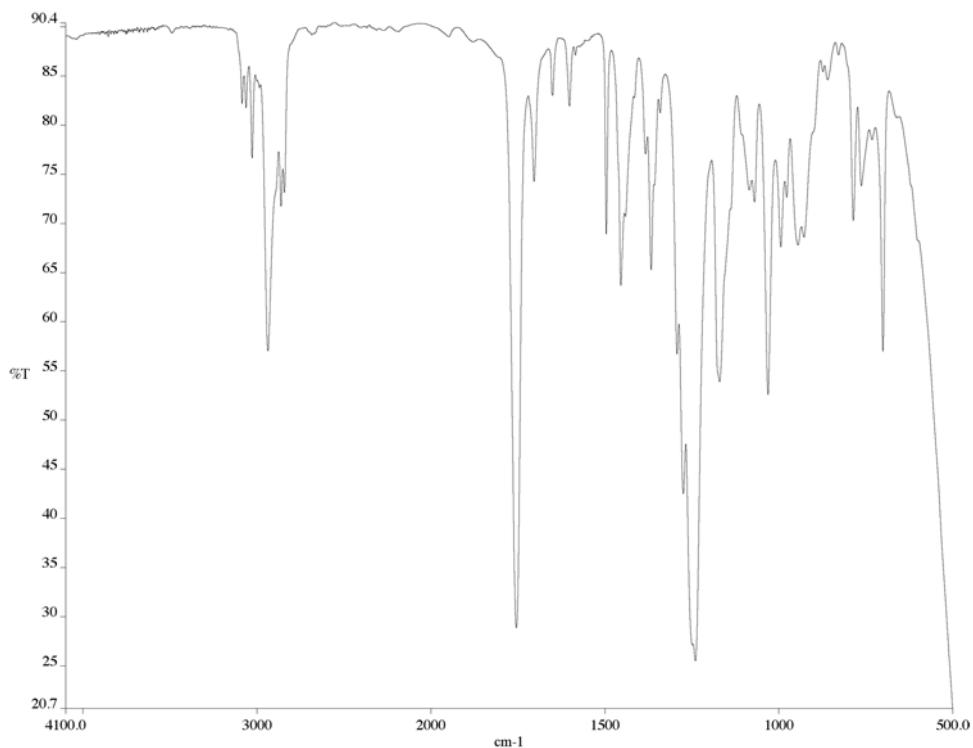


Figure A7.80 IR of compound **324** (NaCl/film)

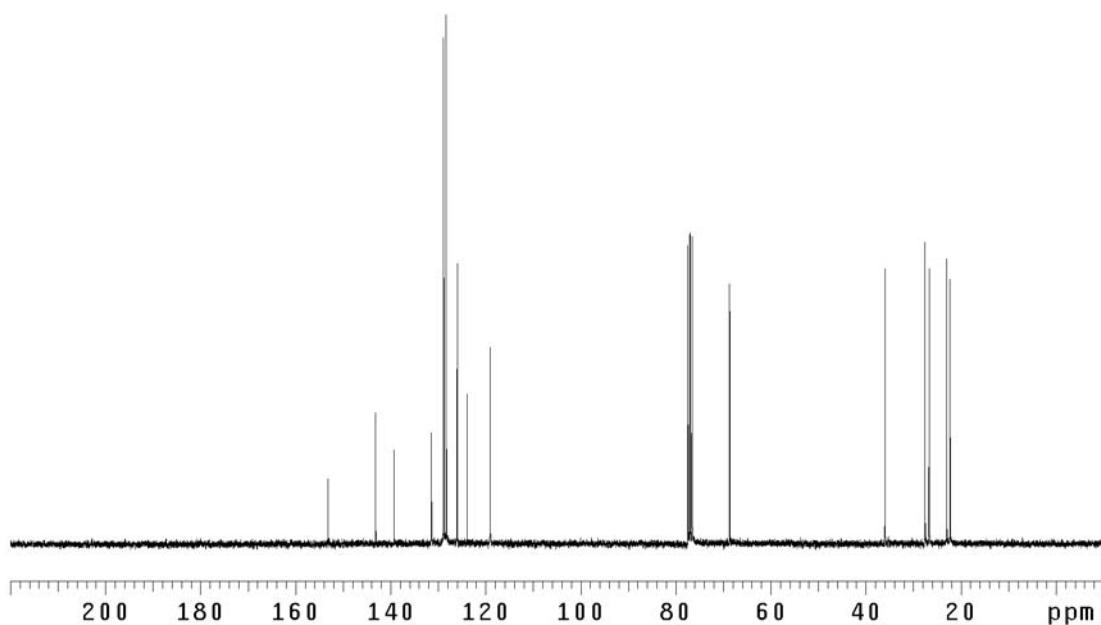


Figure A7.81 <sup>13</sup>C NMR of compound **324** (75 MHz, CDCl<sub>3</sub>)

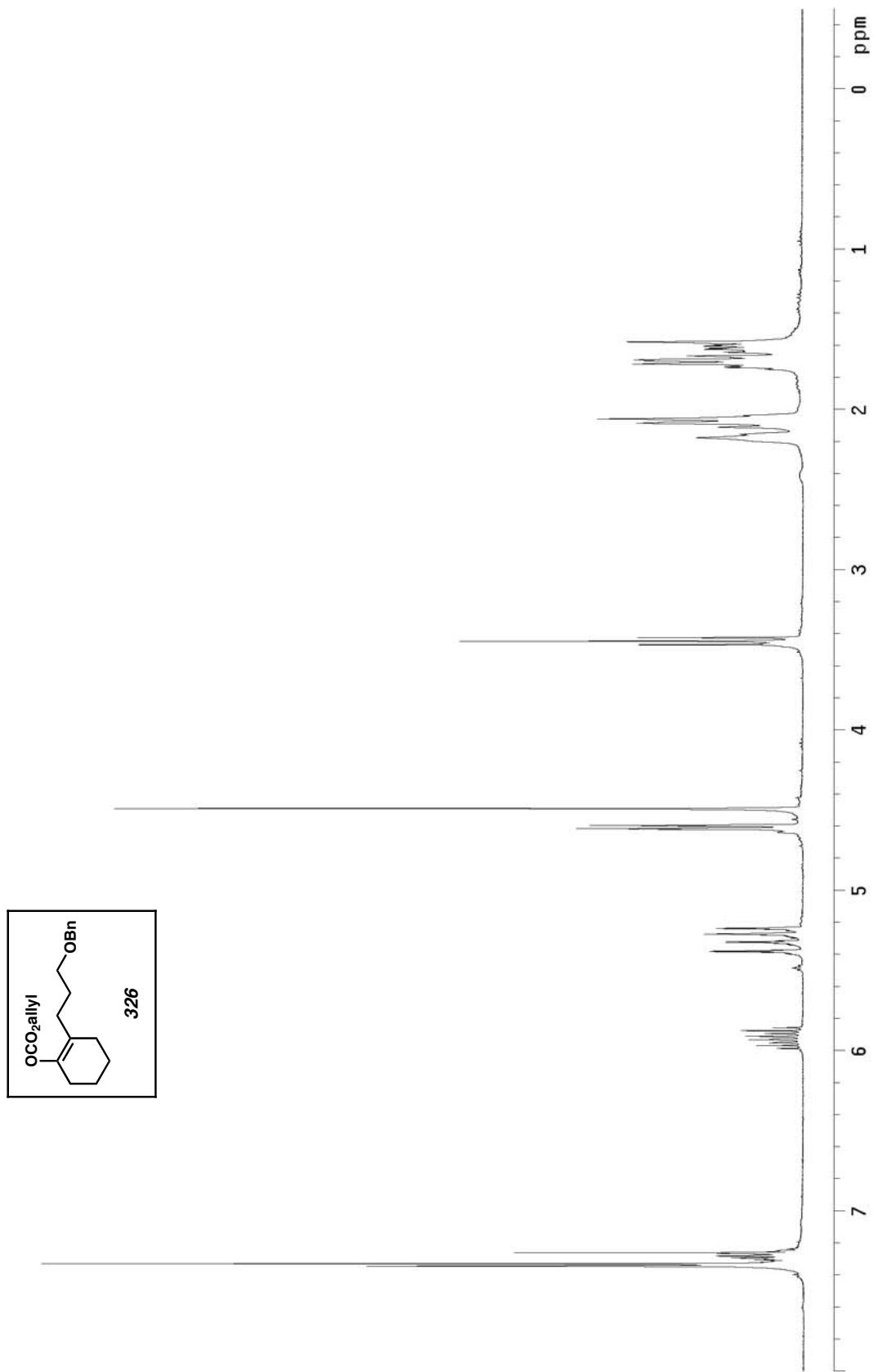


Figure A7.82  $^1\text{H}$  NMR of compound 326 (300 MHz,  $\text{CDCl}_3$ )

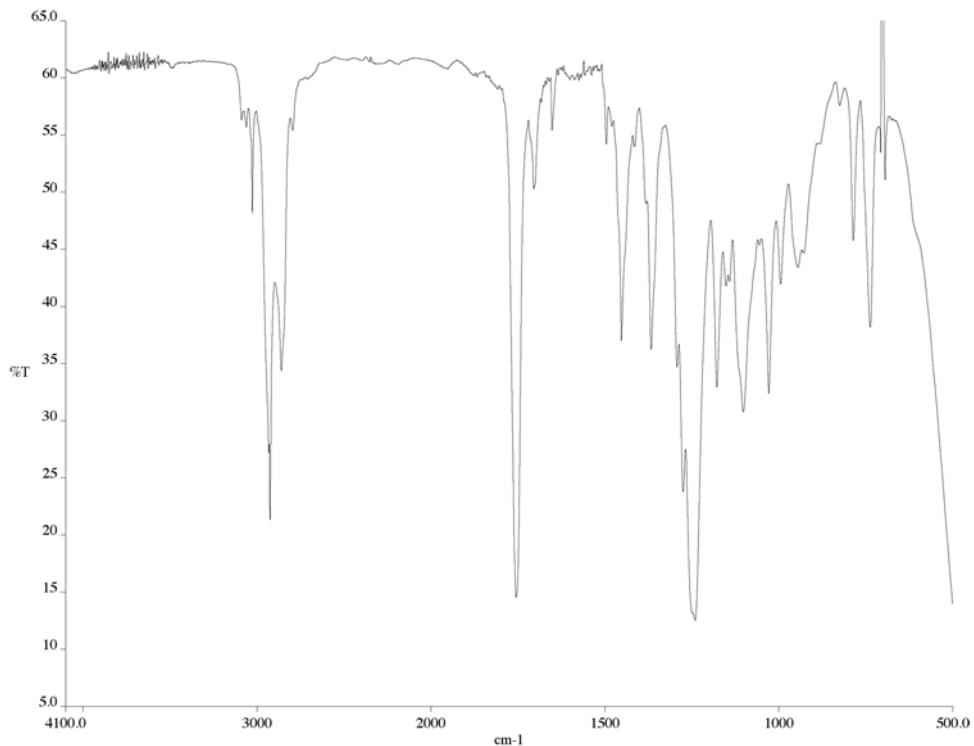


Figure A7.83 IR of compound **326** (NaCl/film)

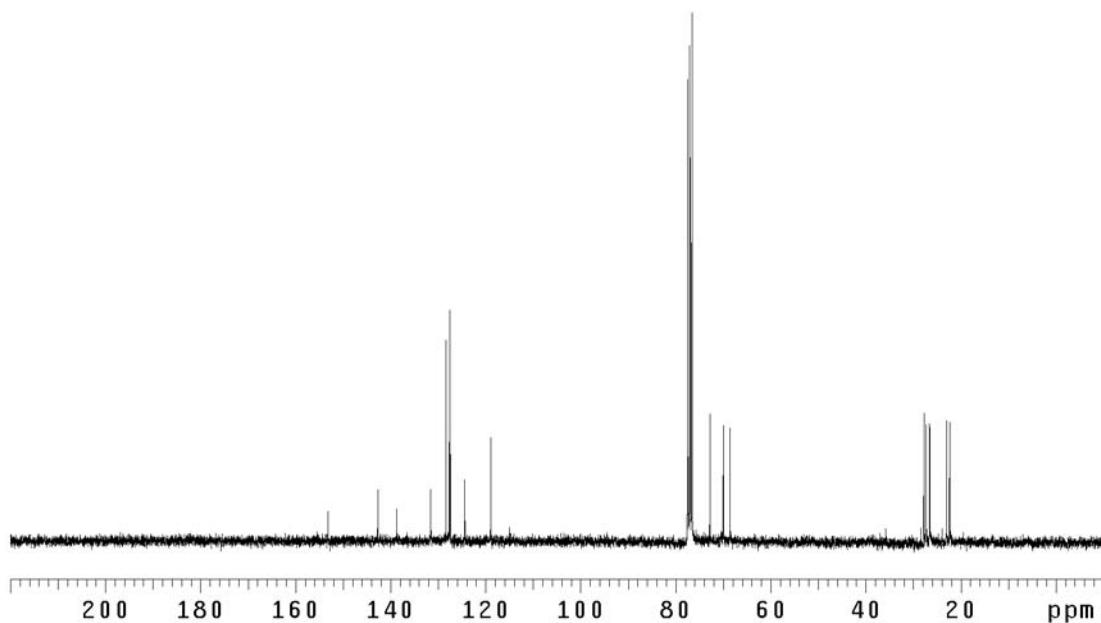


Figure A7.84 <sup>13</sup>C NMR of compound **326** (75 MHz, CDCl<sub>3</sub>)

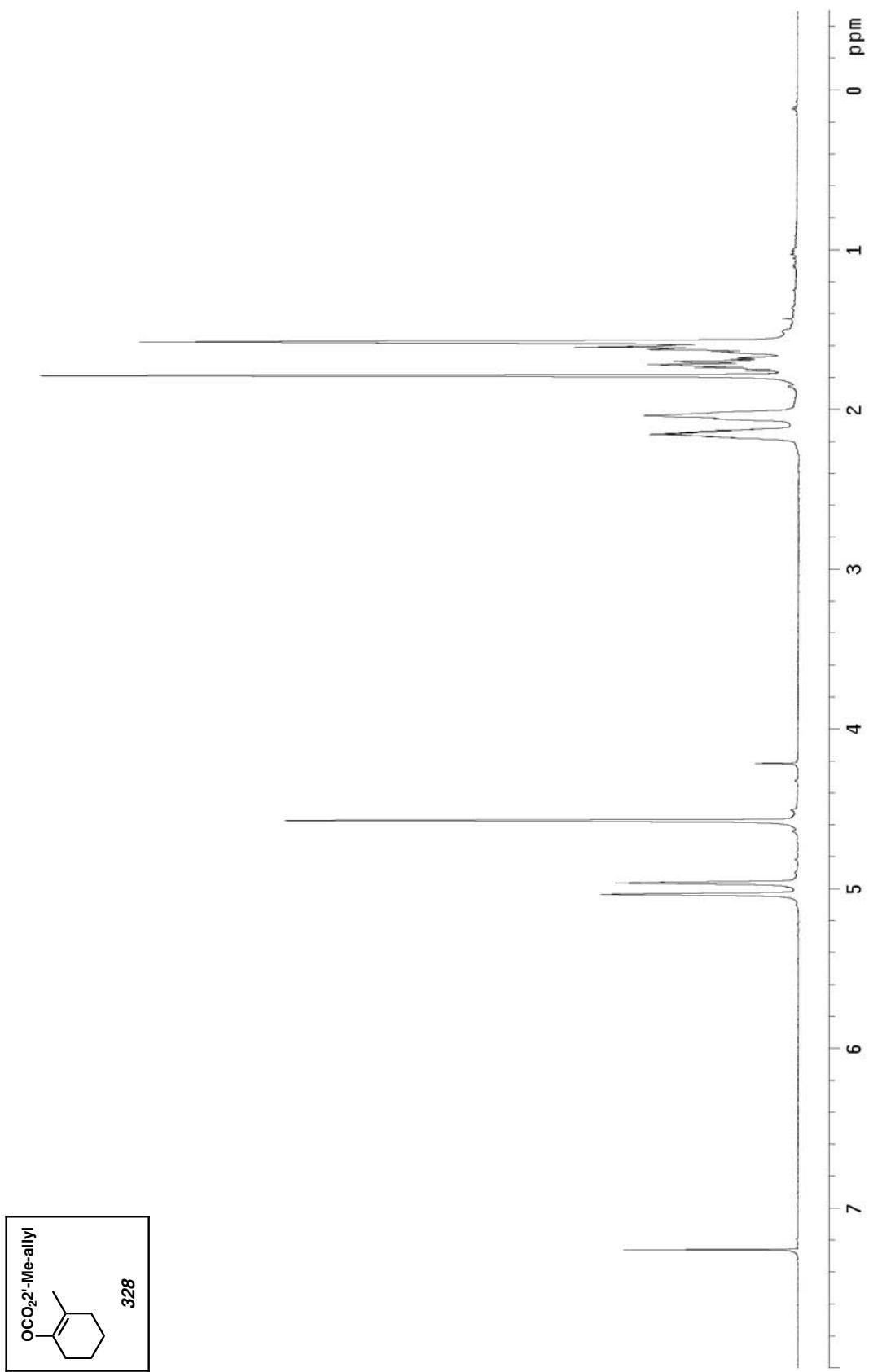


Figure A7.85 <sup>1</sup>H NMR of compound 328 (300 MHz, CDCl<sub>3</sub>)

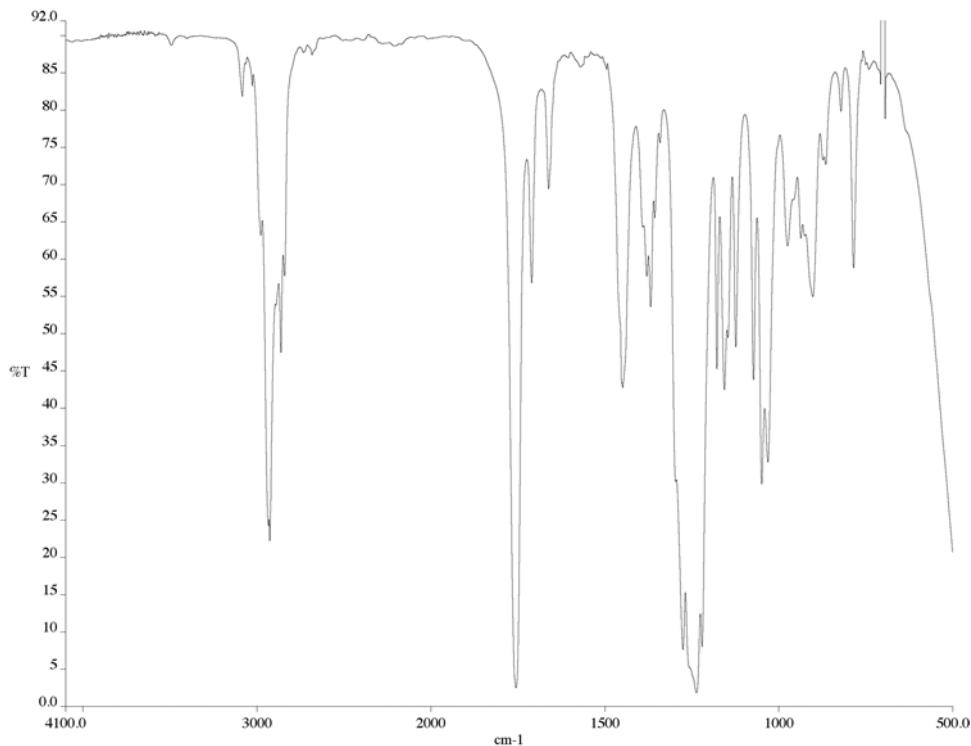


Figure A7.86 IR of compound **328** (NaCl/film)

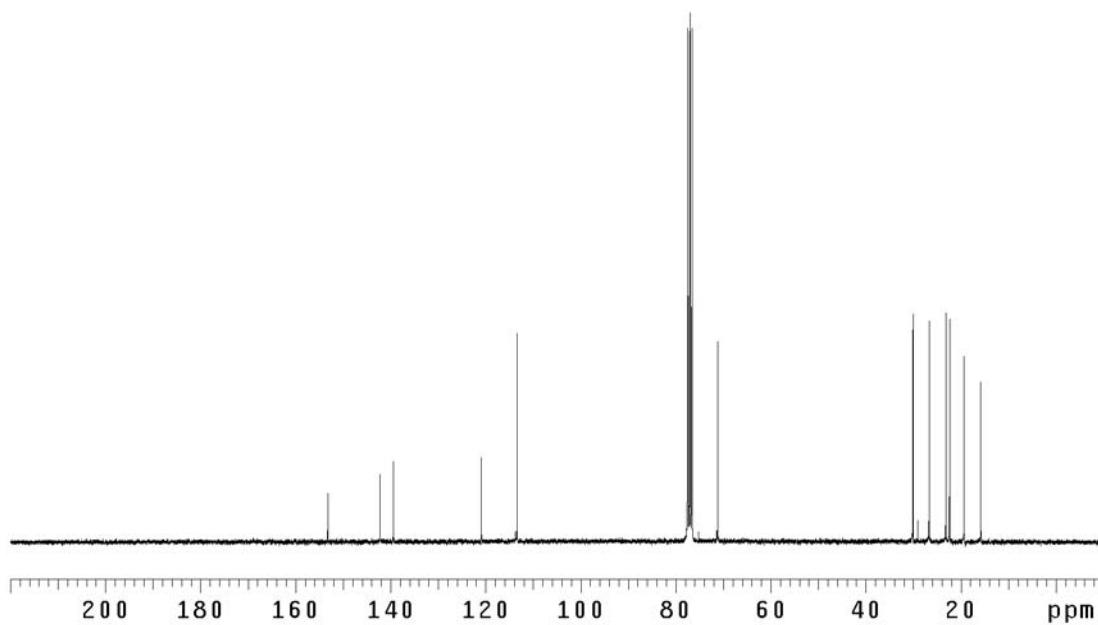


Figure A7.87 <sup>13</sup>C NMR of compound **328** (75 MHz, CDCl<sub>3</sub>)

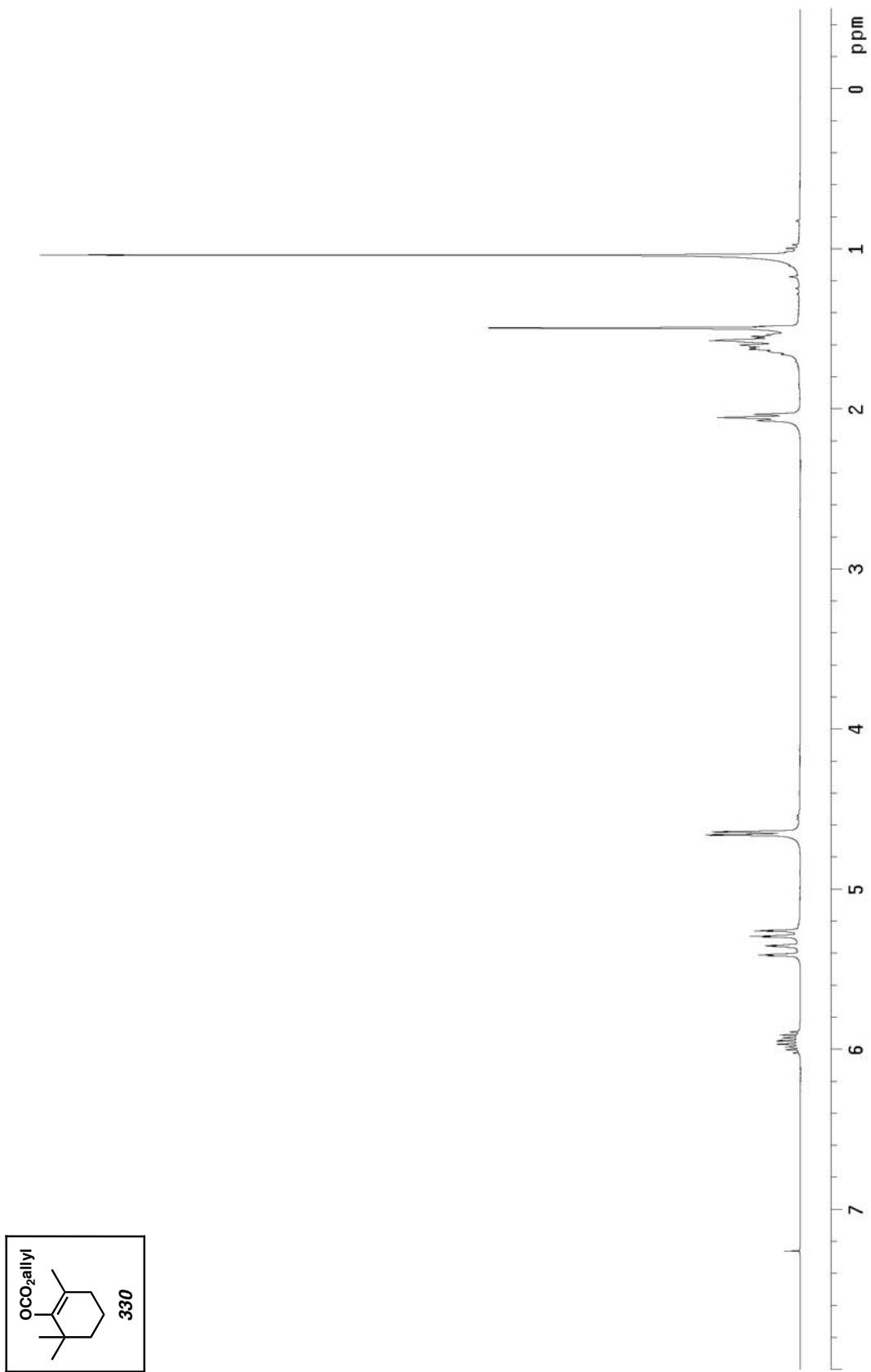
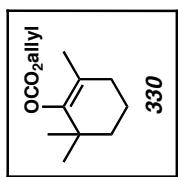


Figure A7.88 <sup>1</sup>H NMR of compound 330 (300 MHz, CDCl<sub>3</sub>)



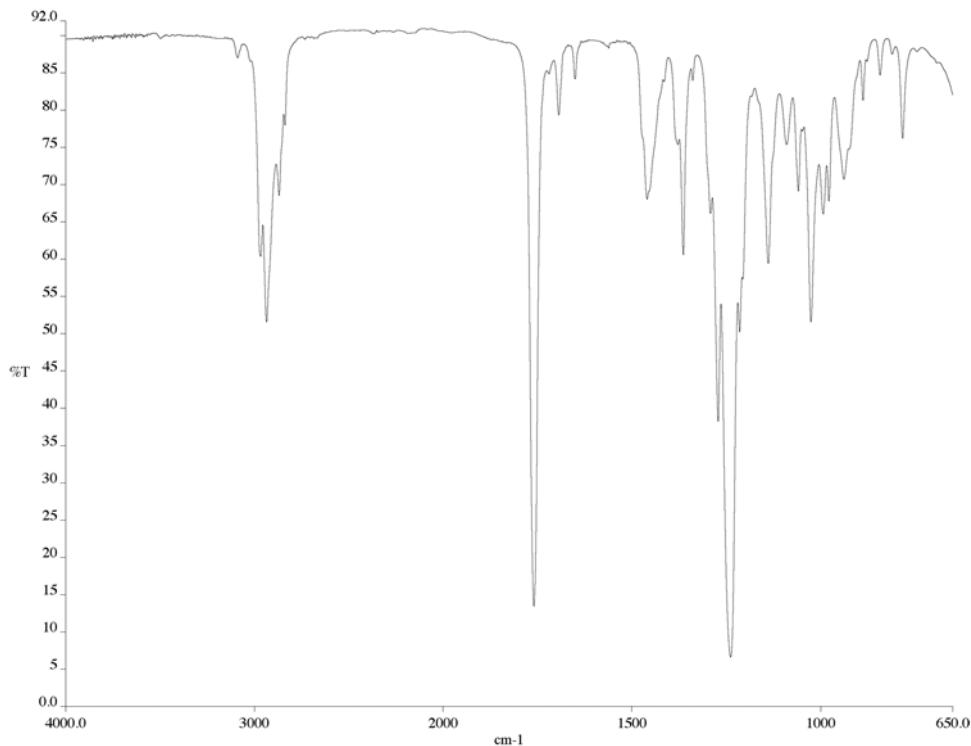


Figure A7.89 IR of compound **330** (NaCl/film)

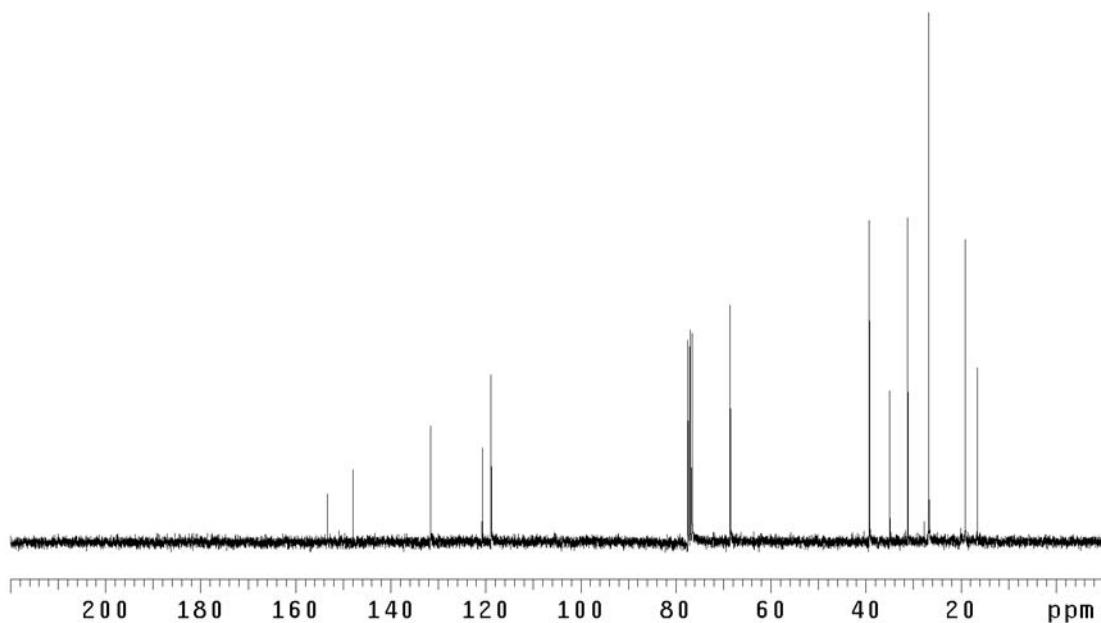


Figure A7.90 <sup>13</sup>C NMR of compound **330** (75 MHz, CDCl<sub>3</sub>)

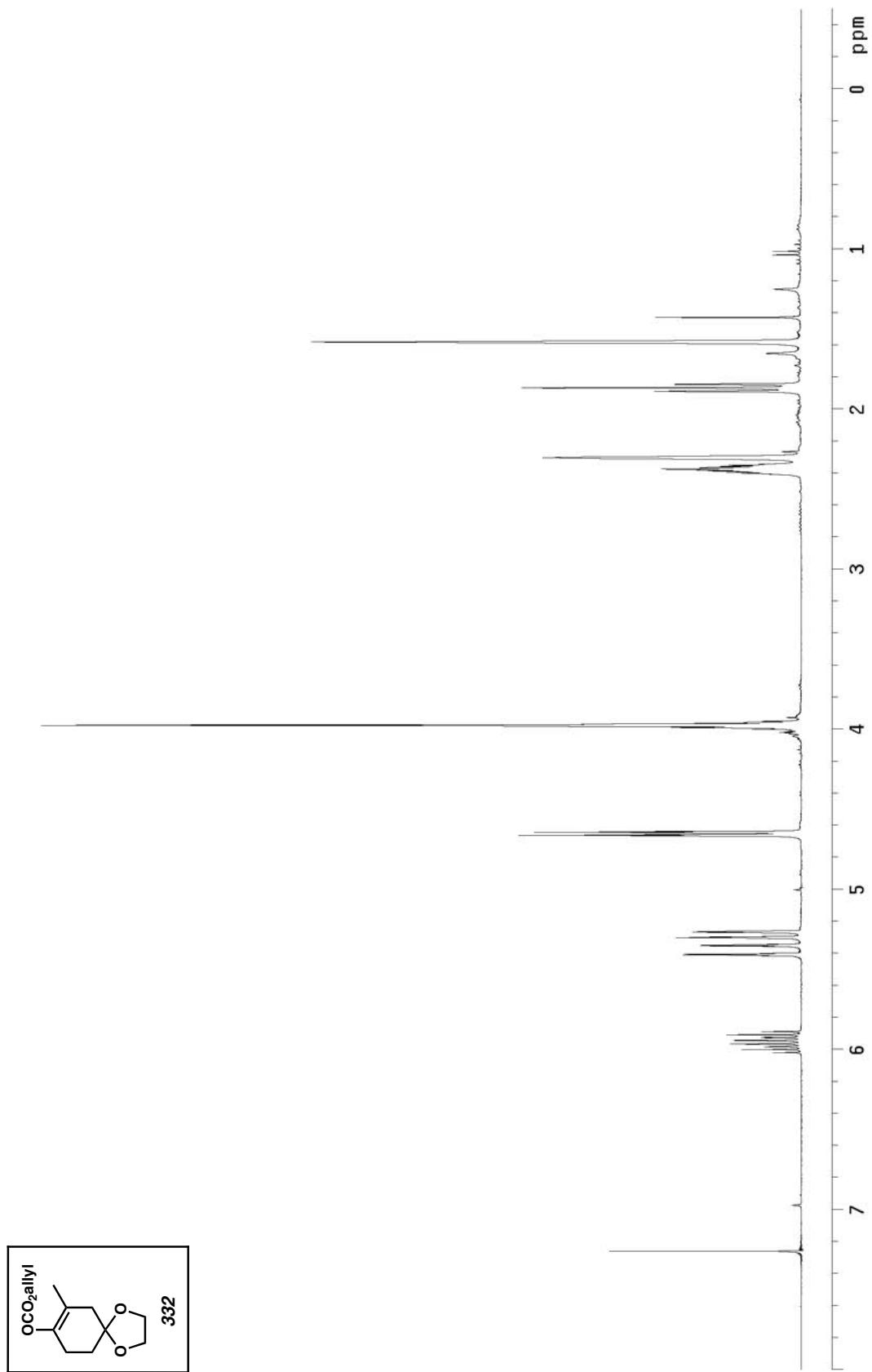


Figure A7.91 <sup>1</sup>H NMR of compound 332 (300 MHz, CDCl<sub>3</sub>)

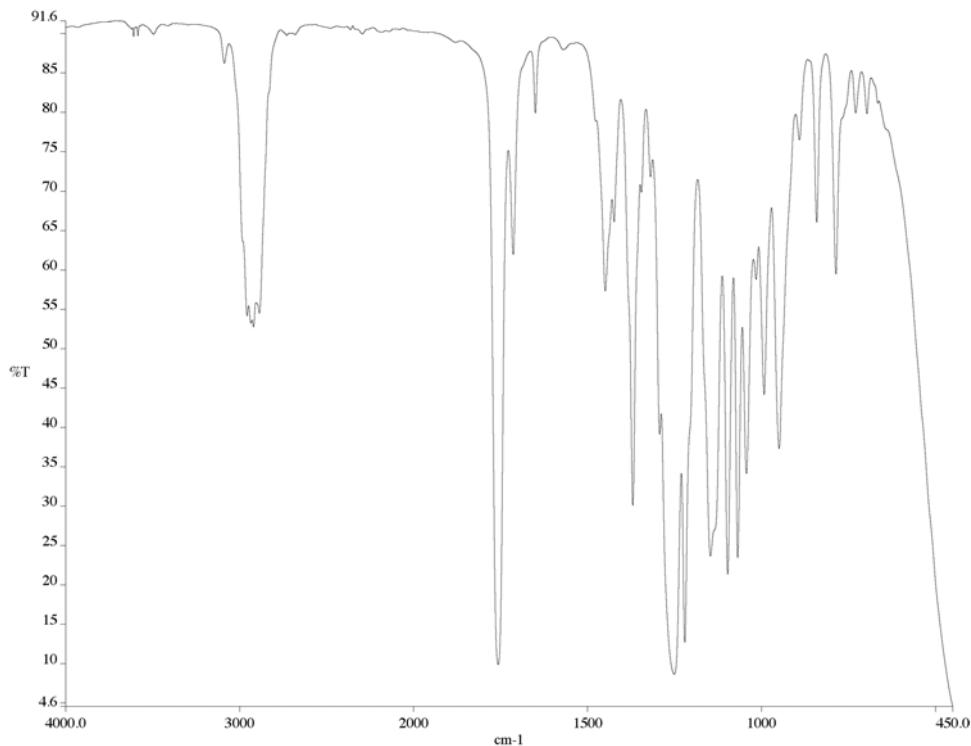


Figure A7.92 IR of compound **332** (NaCl/film)

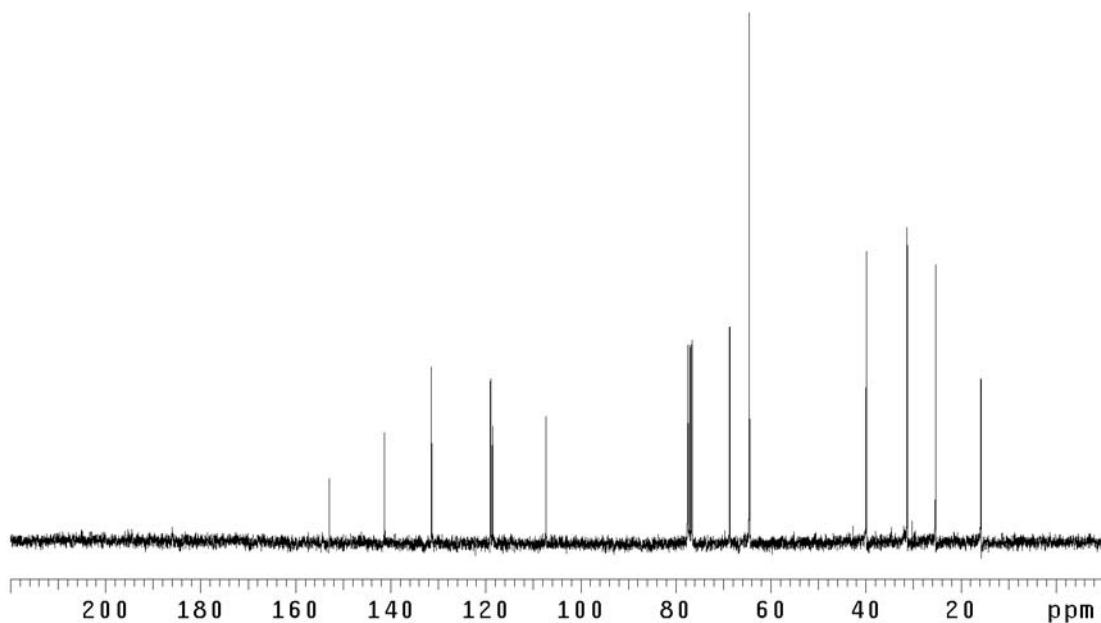


Figure A7.93 <sup>13</sup>C NMR of compound **332** (75 MHz, CDCl<sub>3</sub>)

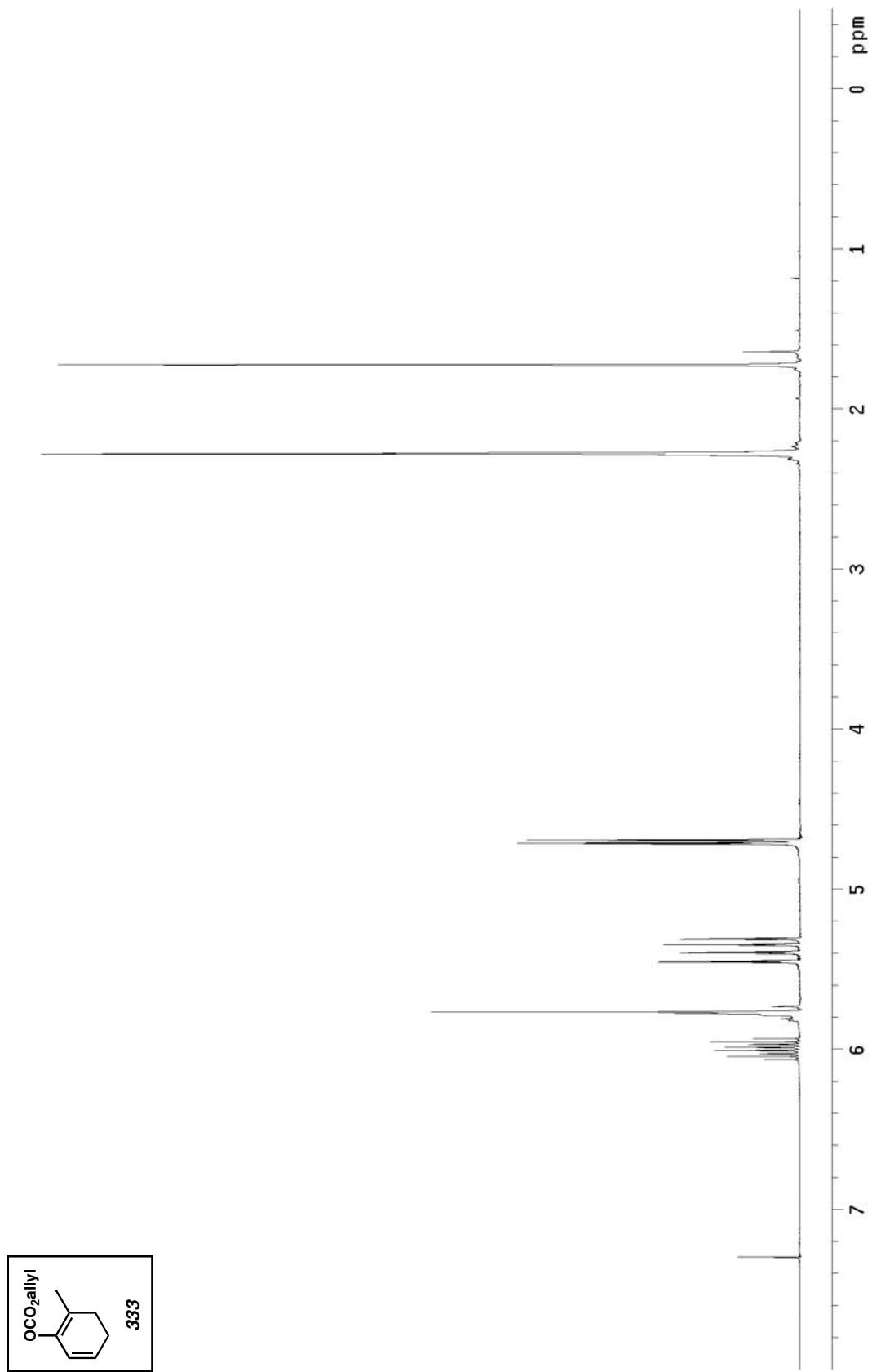
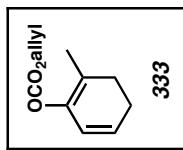


Figure A7.94 <sup>1</sup>H NMR of compound 333 (300 MHz, CDCl<sub>3</sub>)



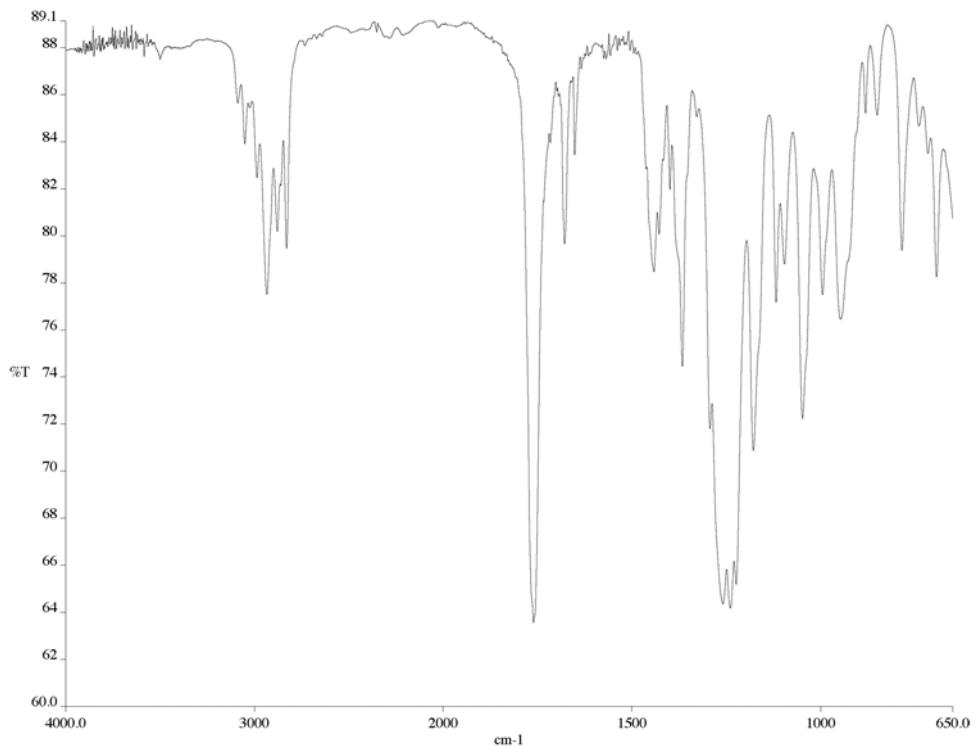


Figure A7.95 IR of compound **333** (NaCl/film)

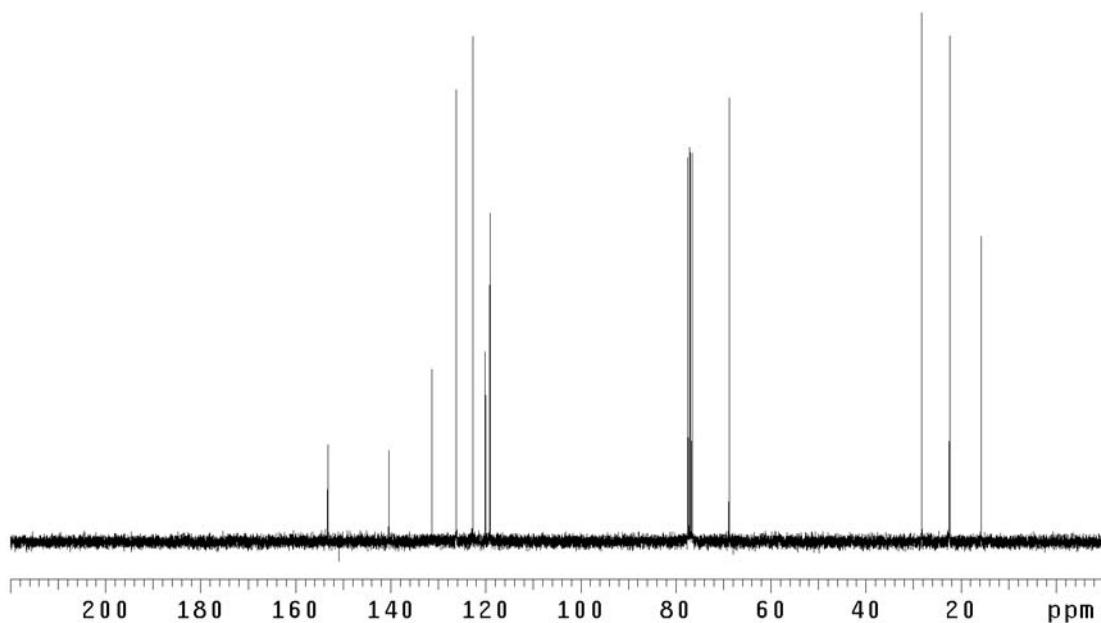


Figure A7.96  $^{13}\text{C}$  NMR of compound **333** (75 MHz,  $\text{CDCl}_3$ )

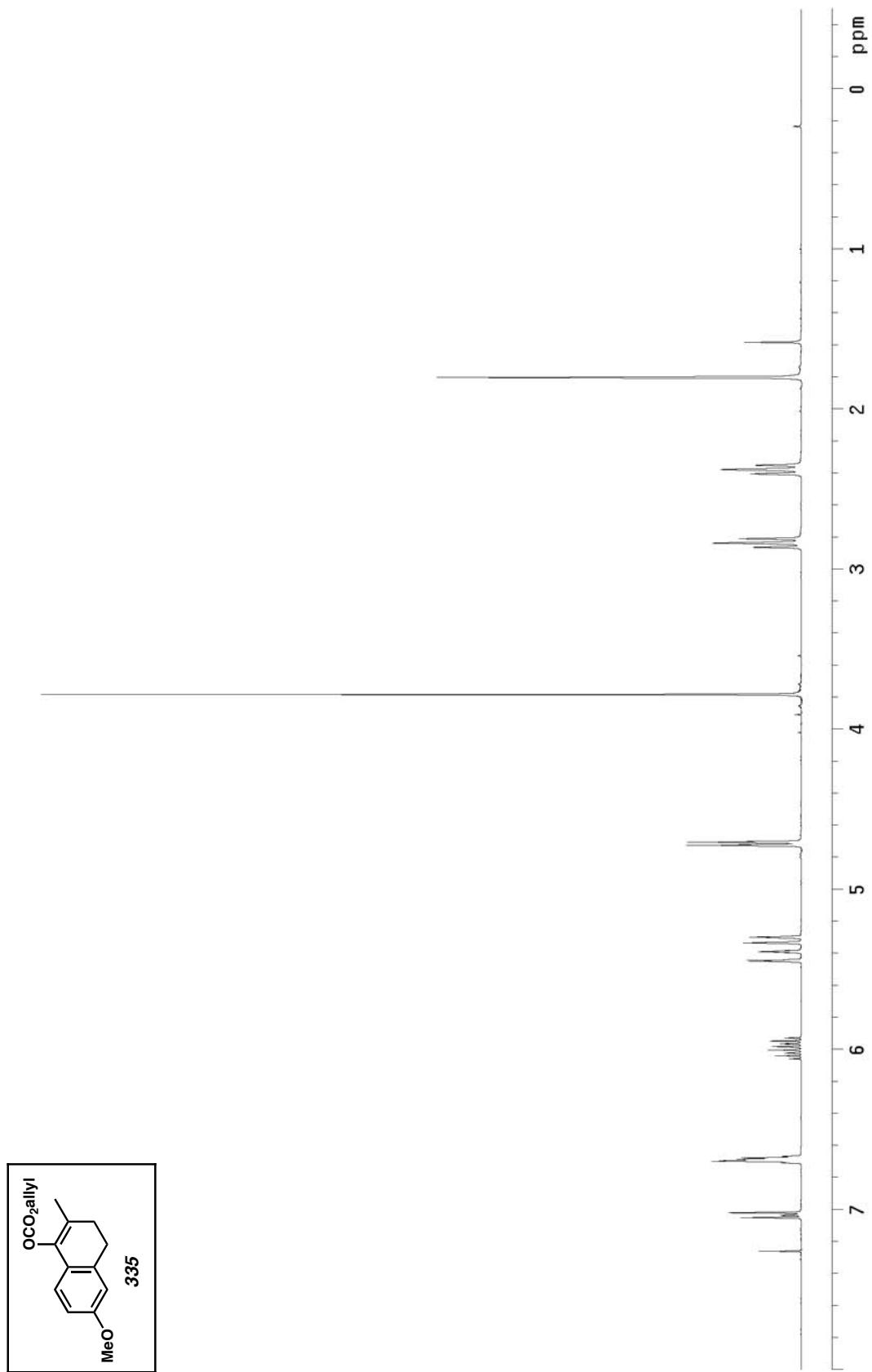


Figure A7.97  $^1\text{H}$  NMR of compound 335 (300 MHz,  $\text{CDCl}_3$ )

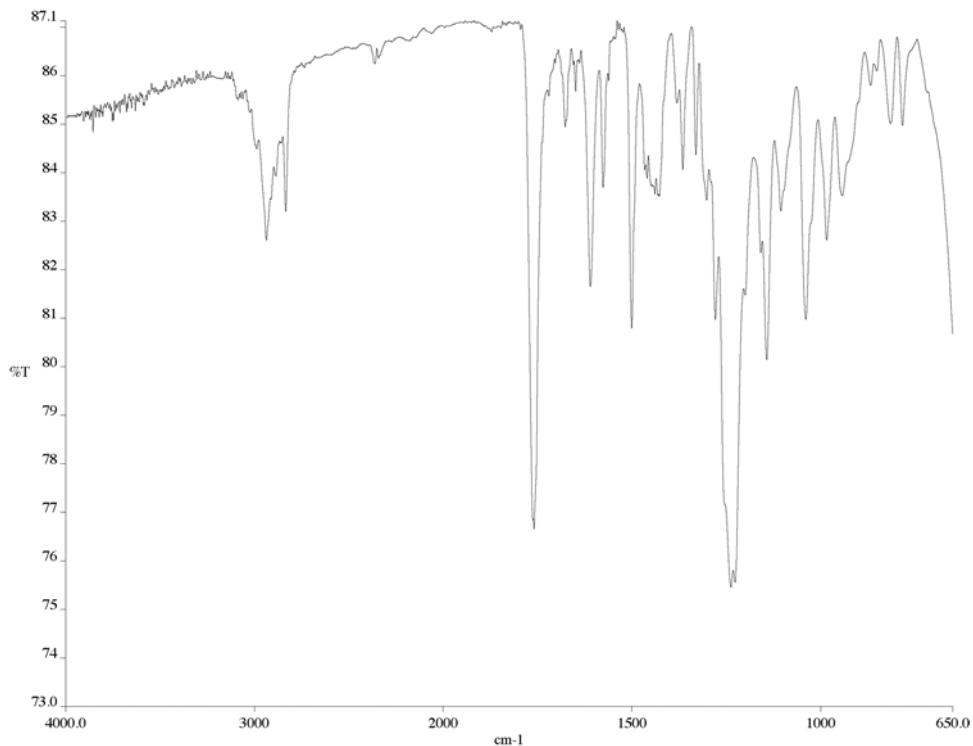


Figure A7.98 IR of compound **335** (NaCl/film)

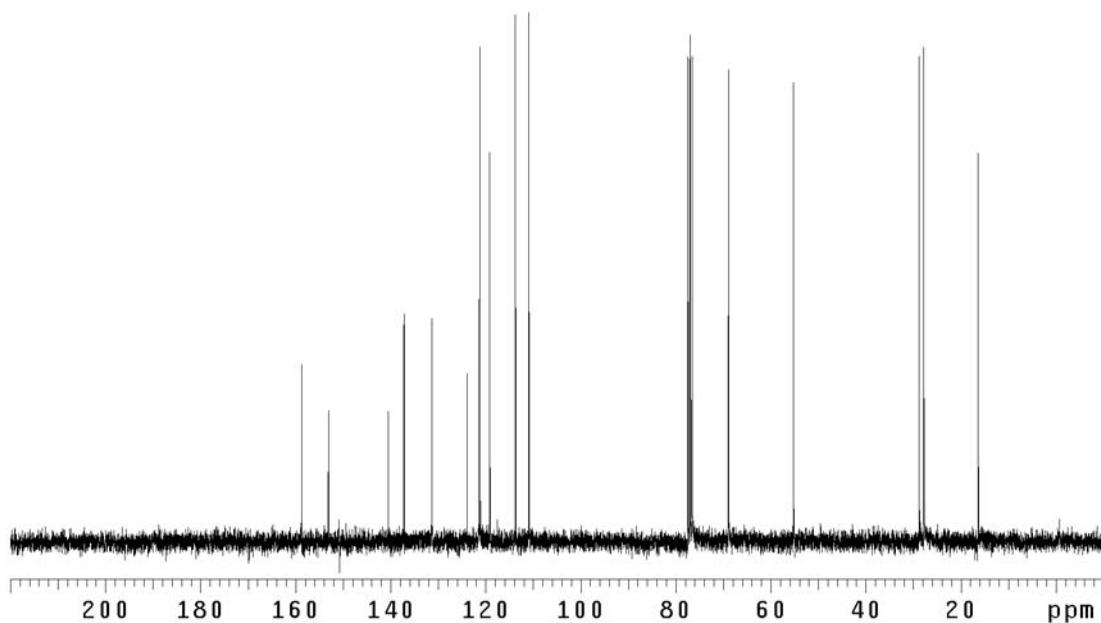


Figure A7.99 <sup>13</sup>C NMR of compound **335** (75 MHz, CDCl<sub>3</sub>)

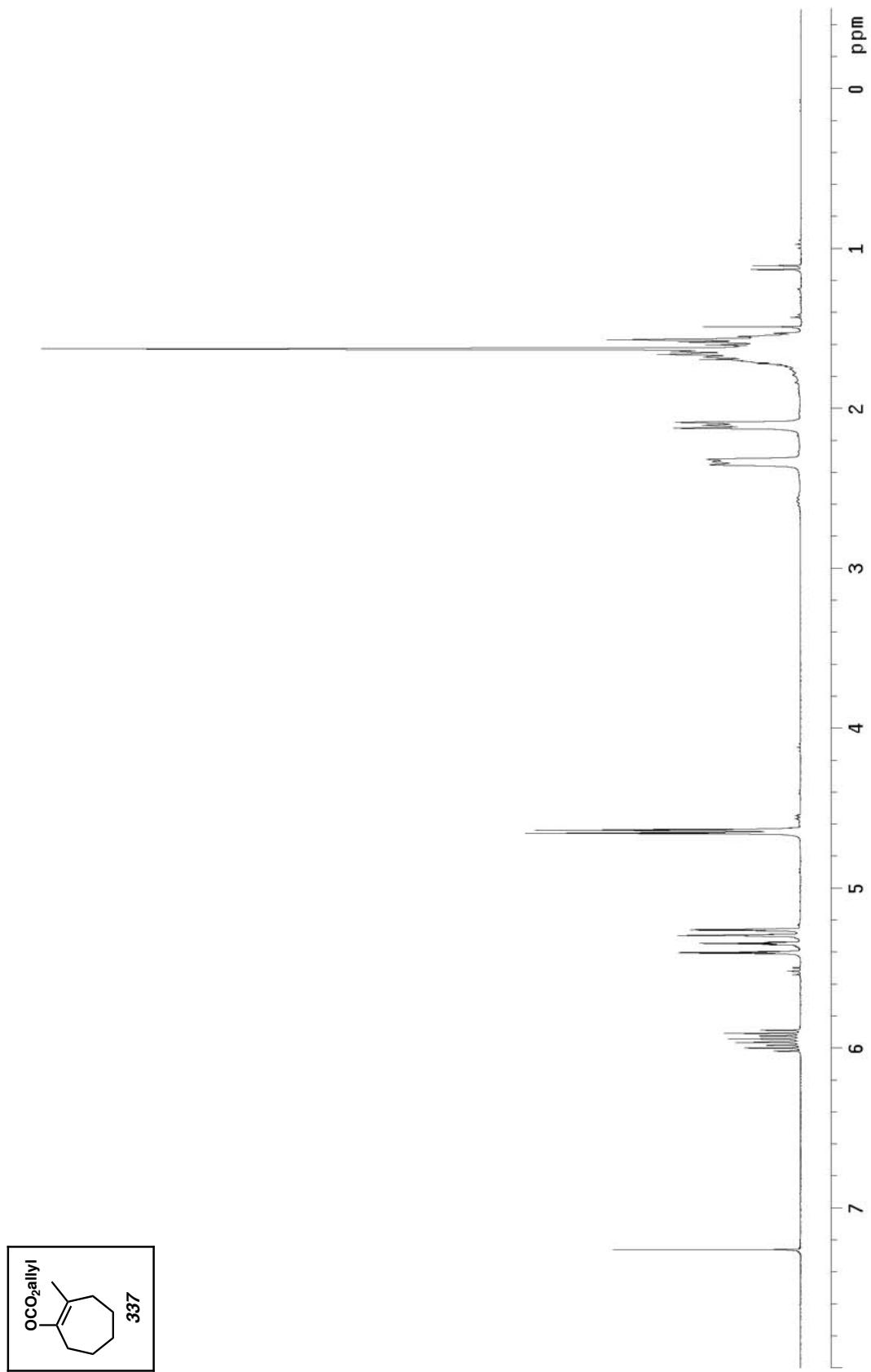
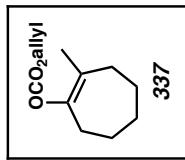


Figure A7.100 <sup>1</sup>H NMR of compound 337 (300 MHz, CDCl<sub>3</sub>)



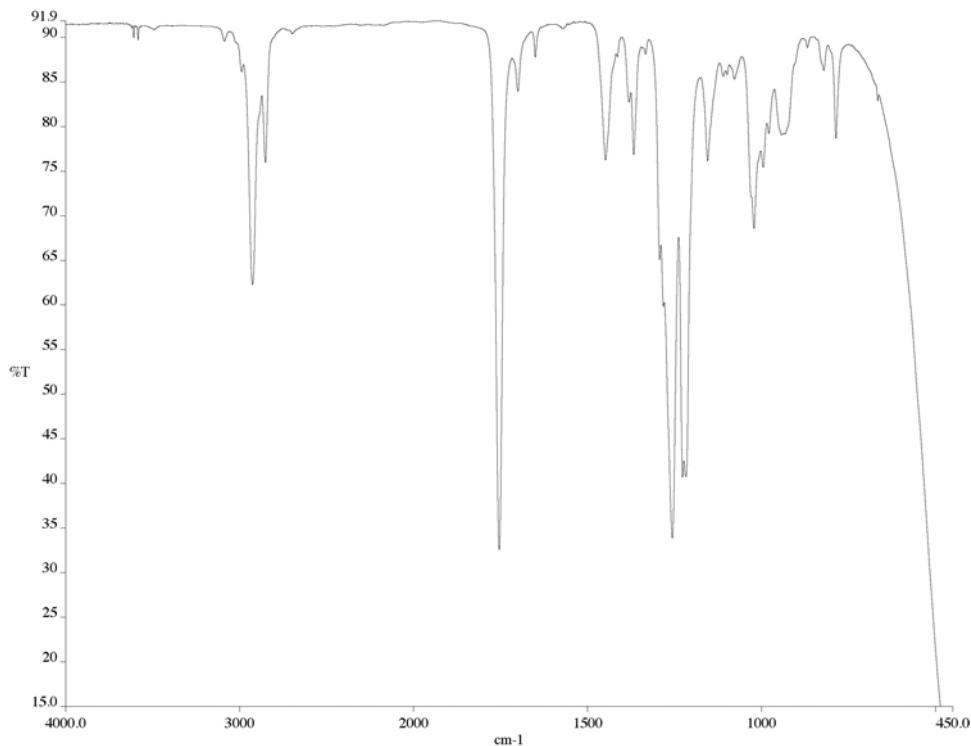


Figure A7.101 IR of compound **337** (NaCl/film)

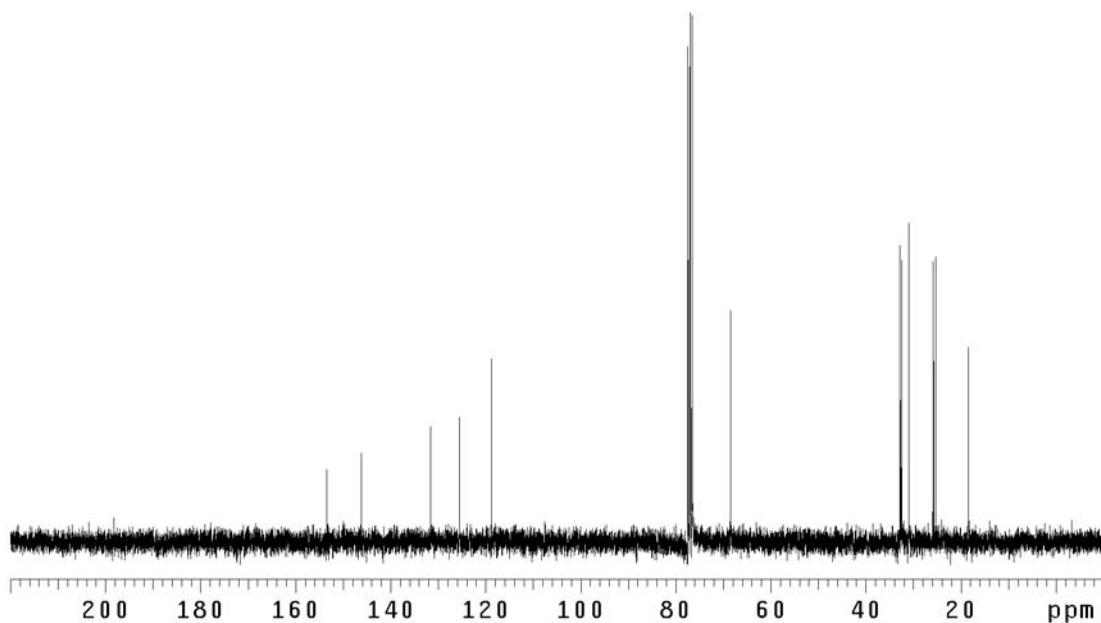


Figure A7.102 <sup>13</sup>C NMR of compound **337** (75 MHz, CDCl<sub>3</sub>)

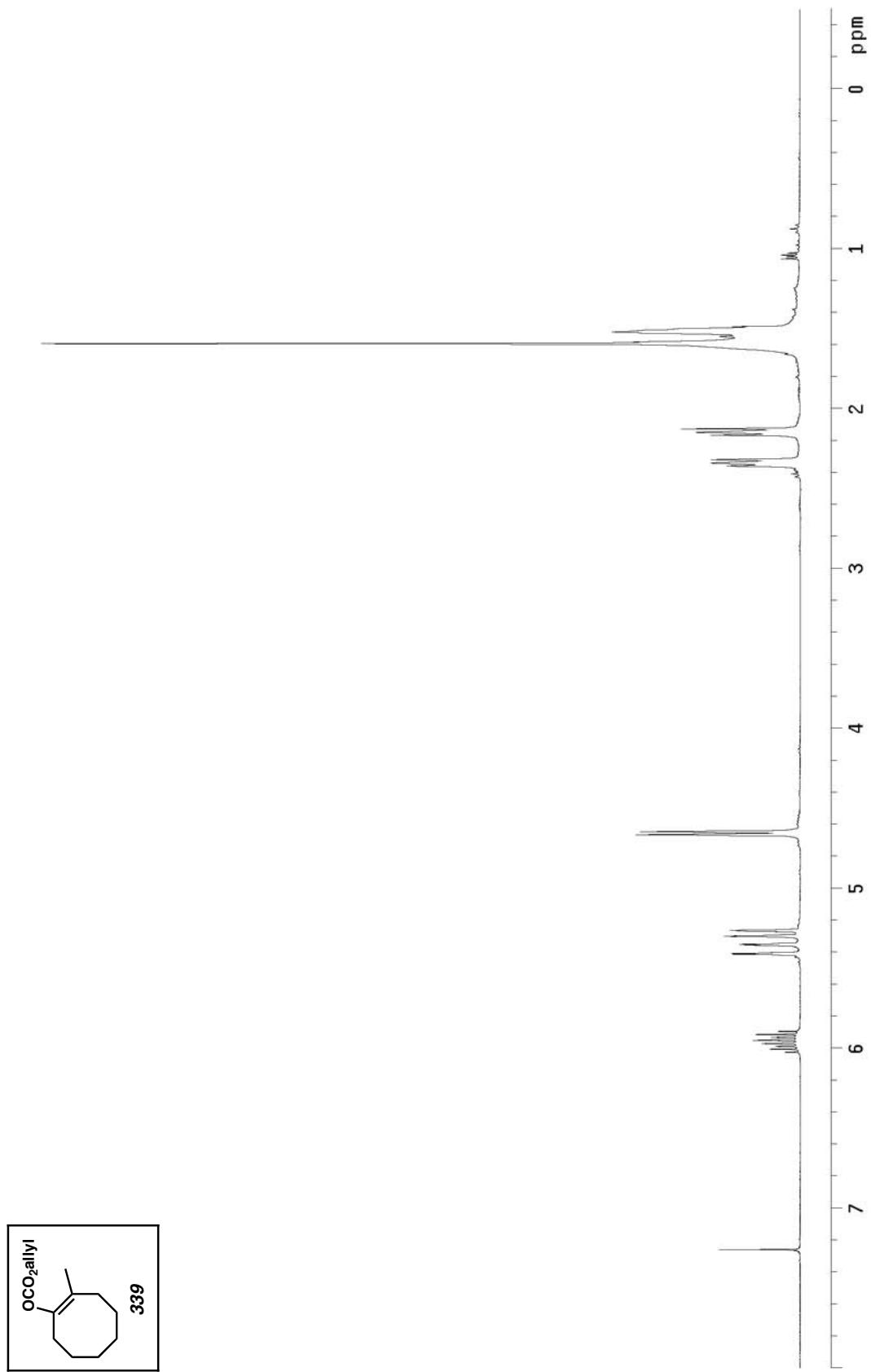


Figure A7.103 <sup>1</sup>H NMR of compound 339 (300 MHz, CDCl<sub>3</sub>)

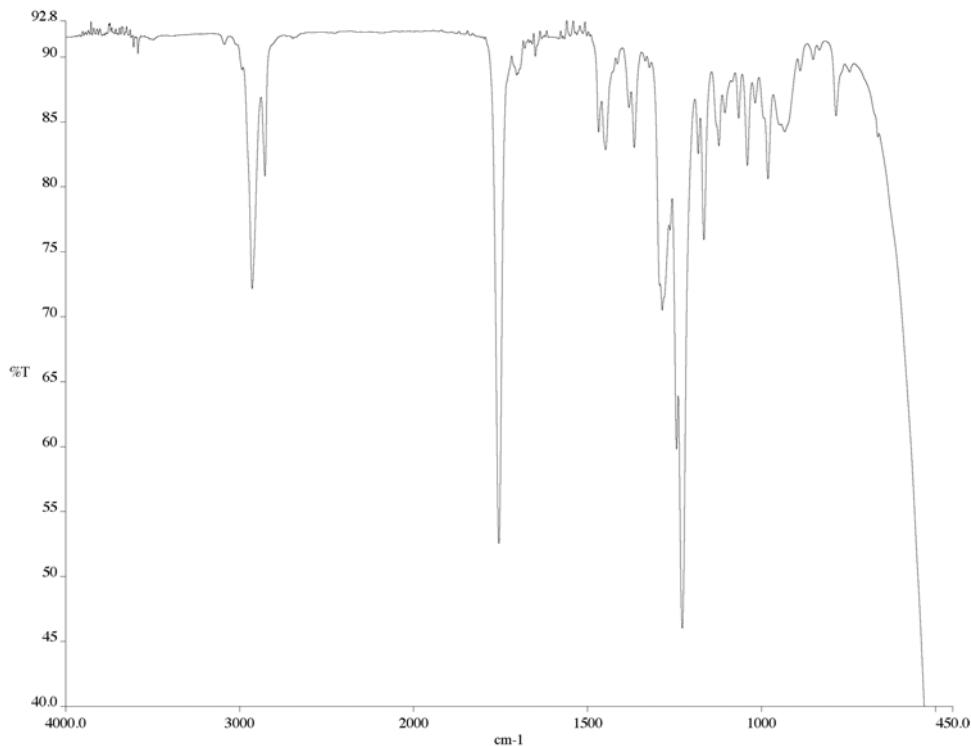


Figure A7.104 IR of compound **339** (NaCl/film)

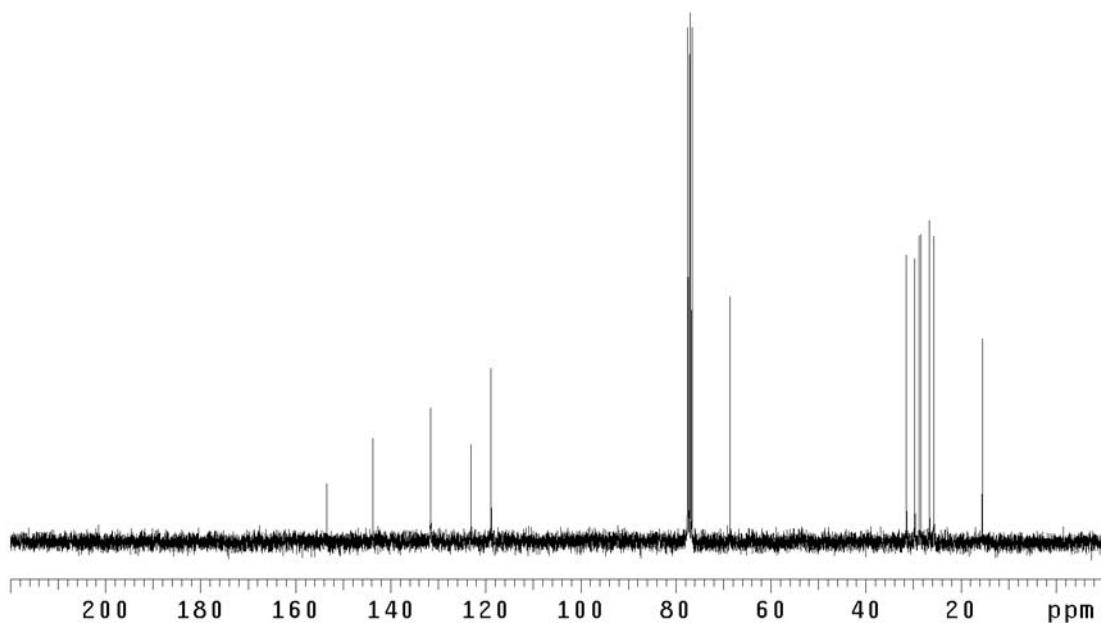


Figure A7.105 <sup>13</sup>C NMR of compound **339** (75 MHz, CDCl<sub>3</sub>)

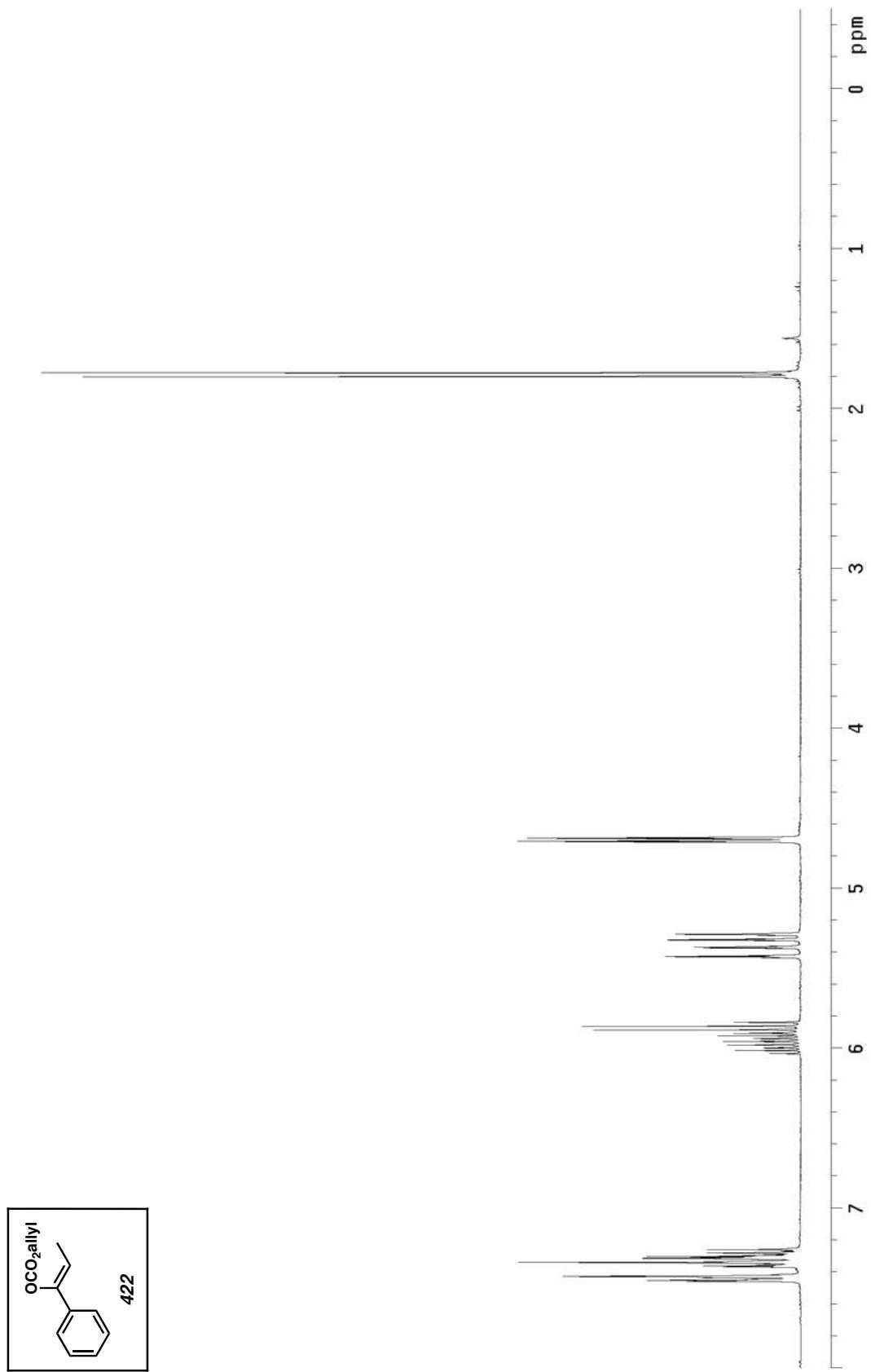


Figure A7.106  $^1\text{H}$  NMR of compound 422 (300 MHz,  $\text{CDCl}_3$ )

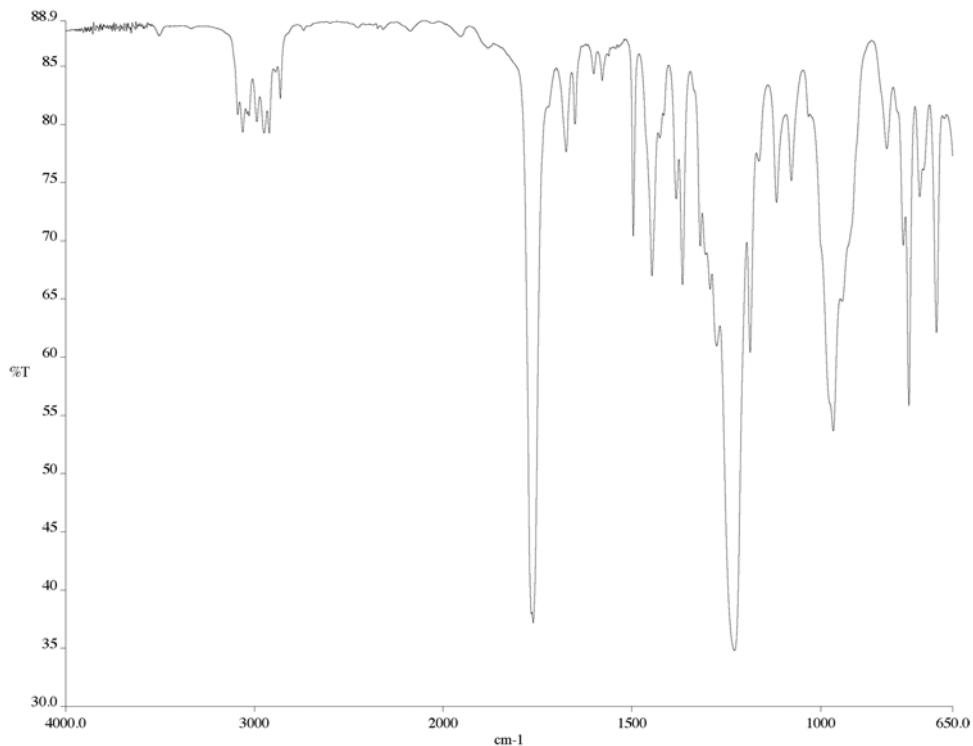


Figure A7.107 IR of compound **422** (NaCl/film)

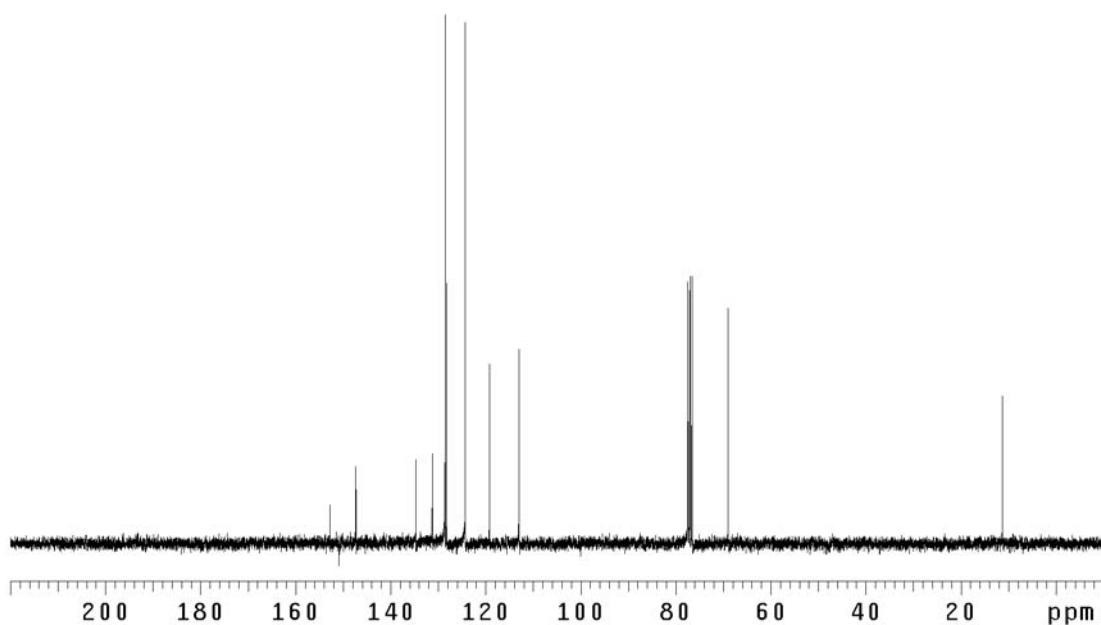


Figure A7.108 <sup>13</sup>C NMR of compound **422** (75 MHz, CDCl<sub>3</sub>)

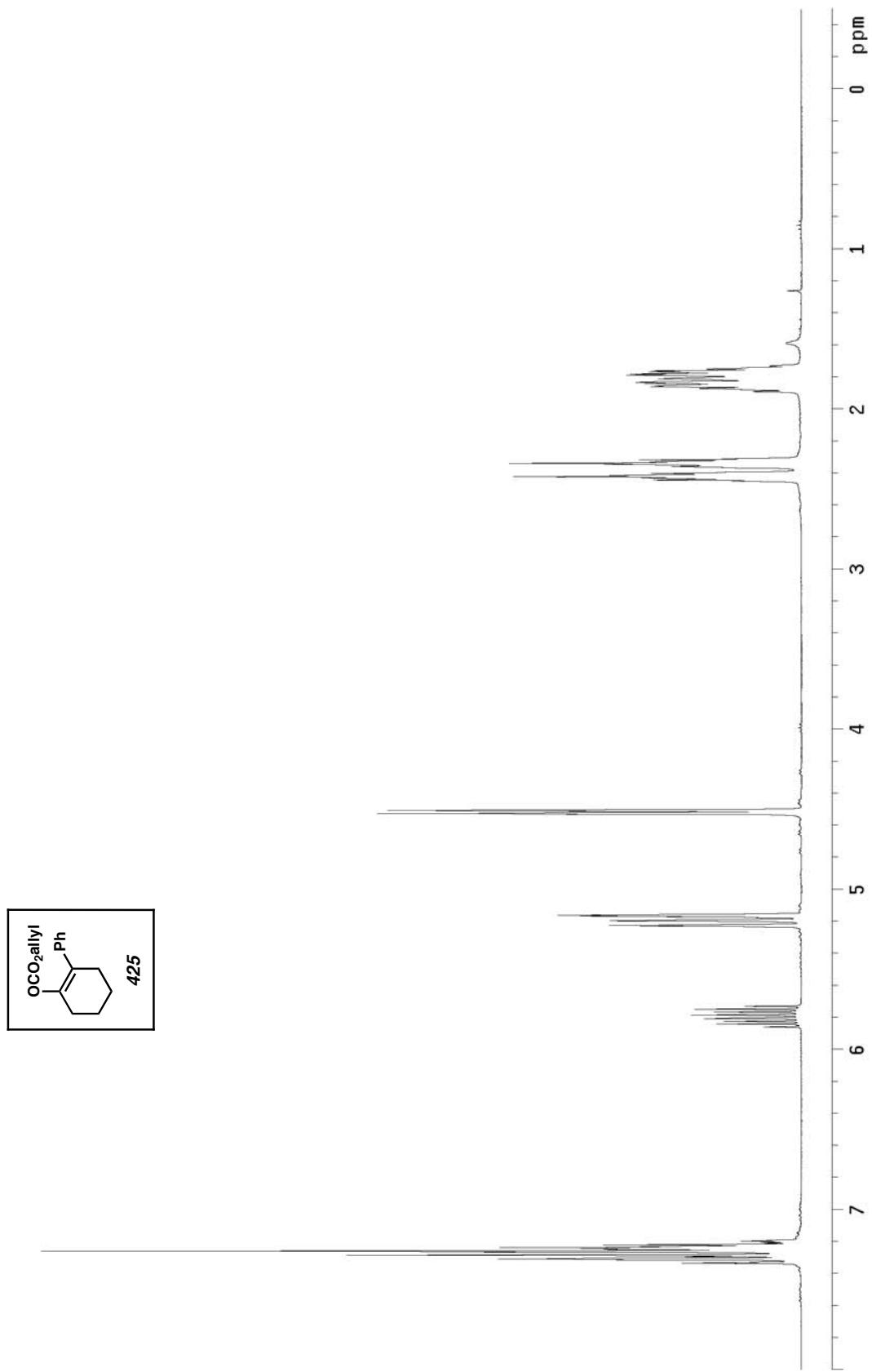


Figure A7.109 <sup>1</sup>H NMR of compound 425 (300 MHz, CDCl<sub>3</sub>)

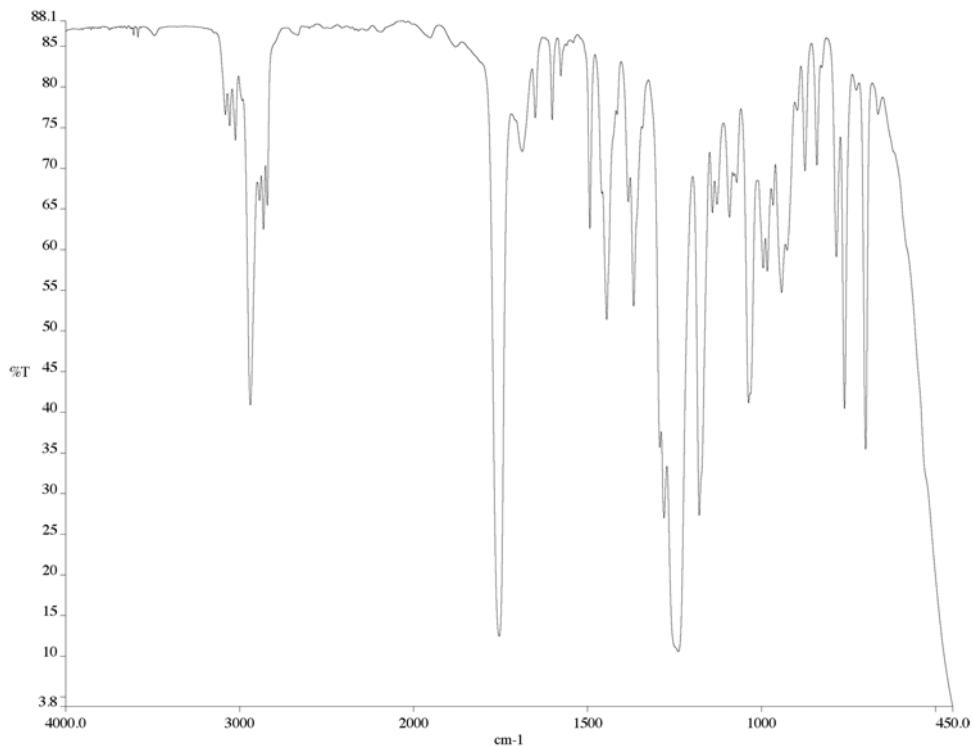


Figure A7.110 IR of compound **425** (NaCl/film)

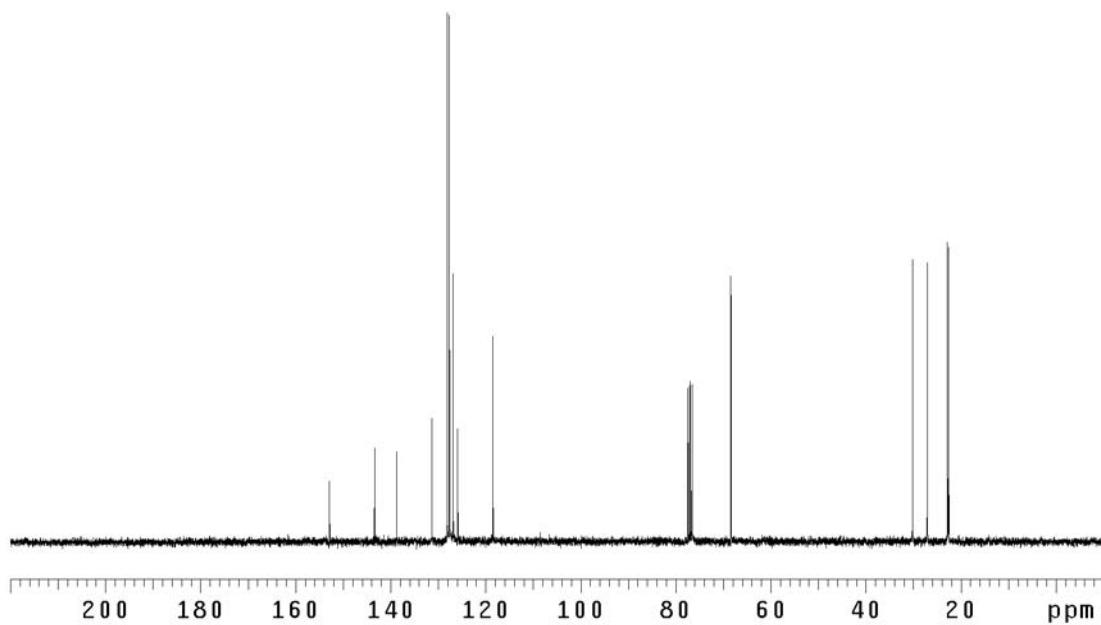


Figure A7.111 <sup>13</sup>C NMR of compound **425** (75 MHz, CDCl<sub>3</sub>)

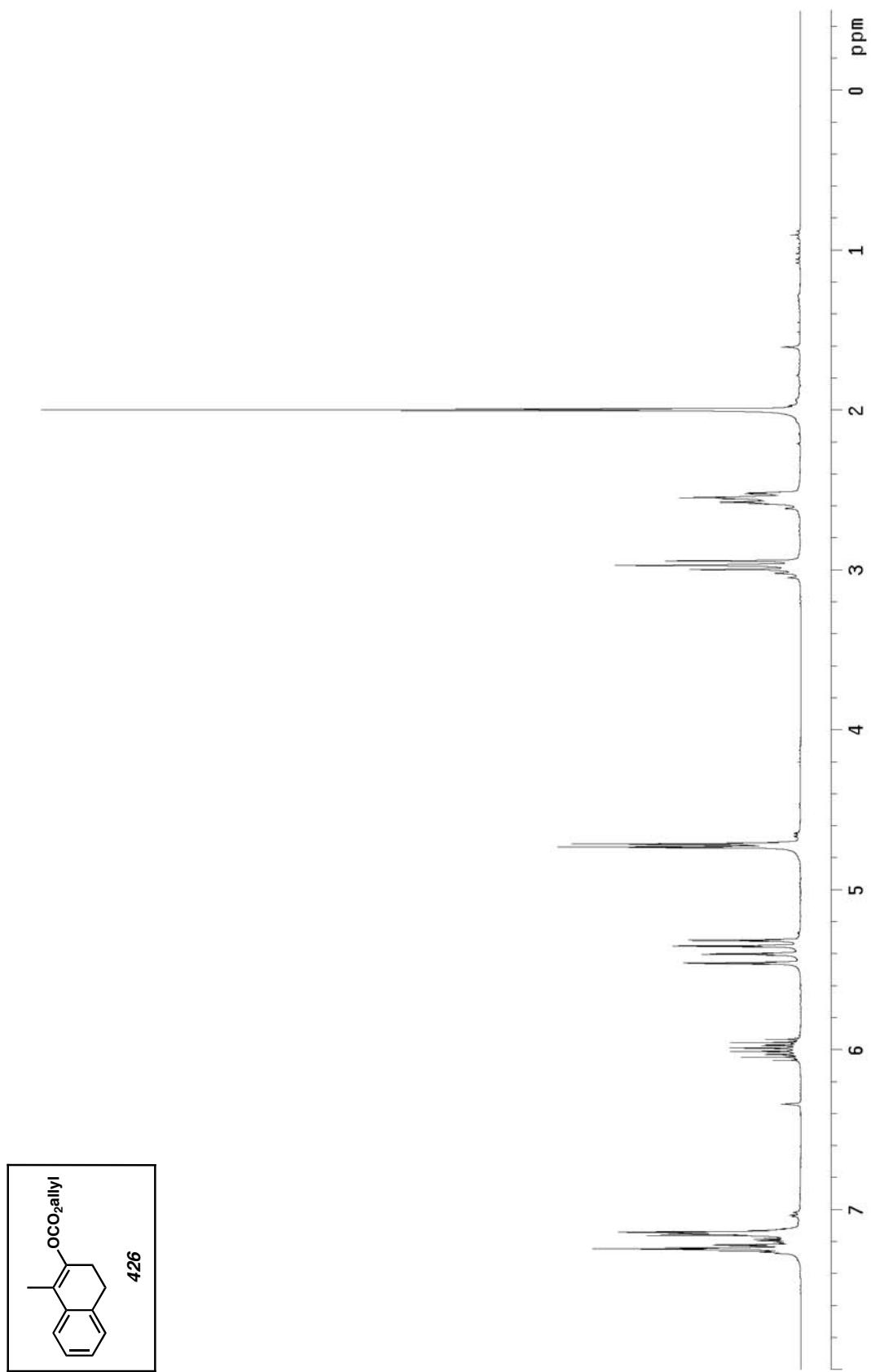


Figure A7.112  $^1\text{H}$  NMR of compound 426 (300 MHz,  $\text{CDCl}_3$ )

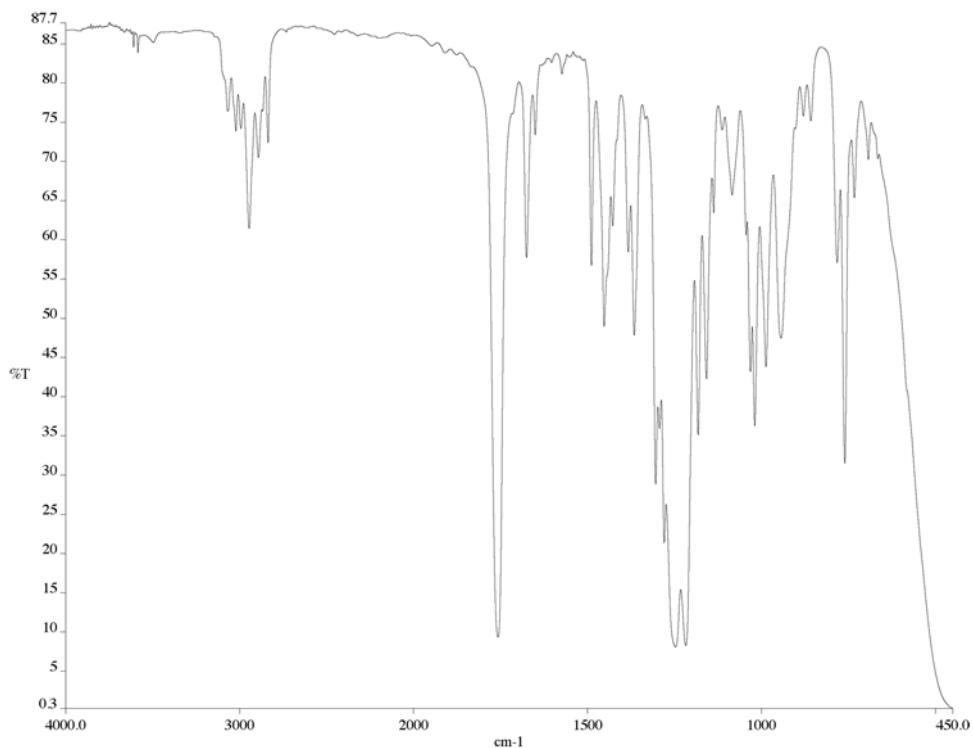


Figure A7.113 IR of compound **426** (NaCl/film)

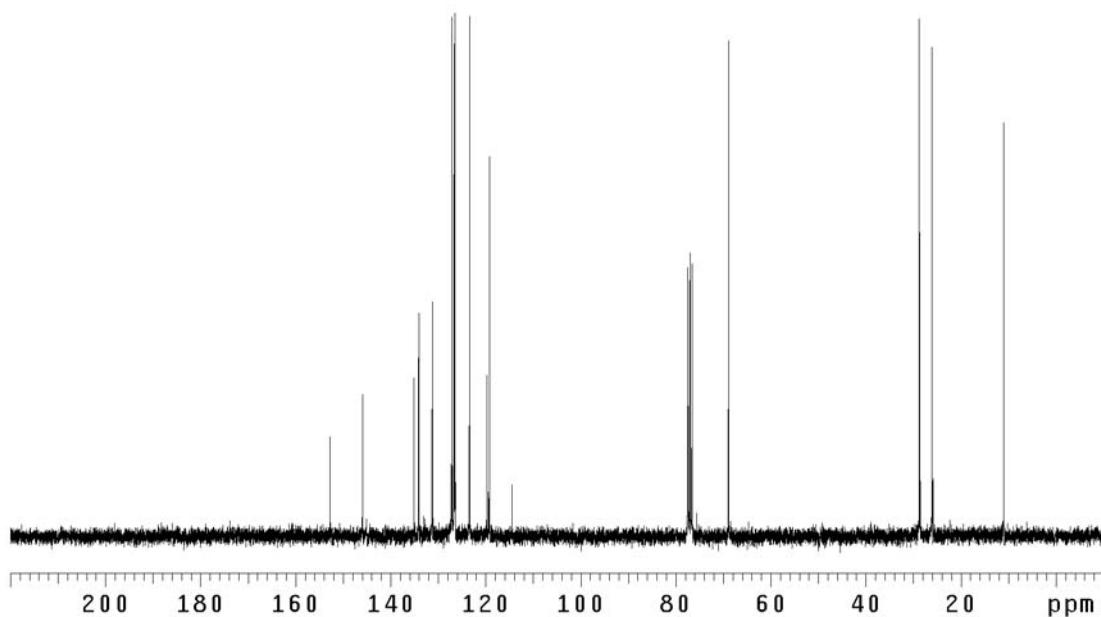


Figure A7.114 <sup>13</sup>C NMR of compound **426** (75 MHz, CDCl<sub>3</sub>)

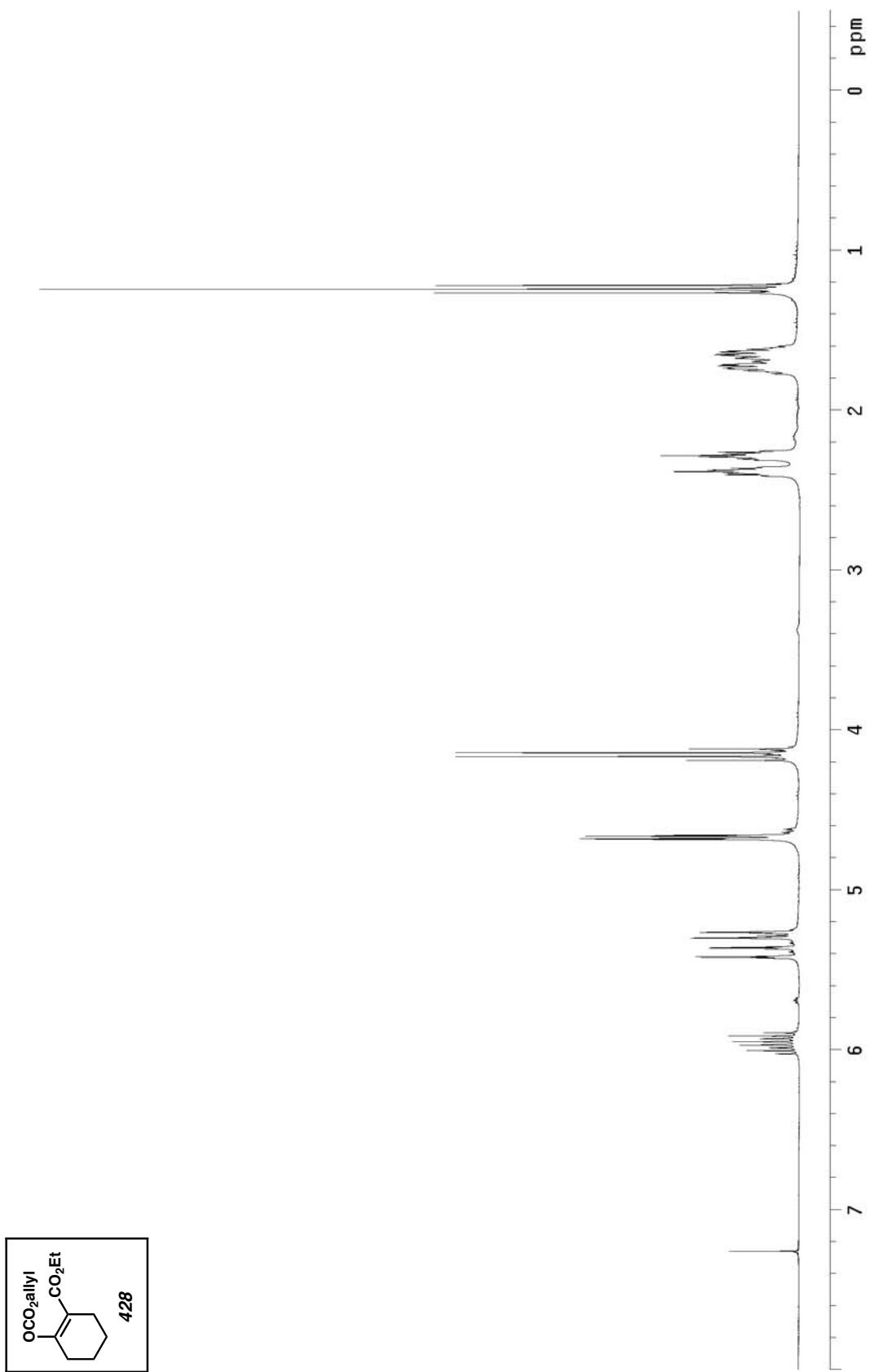
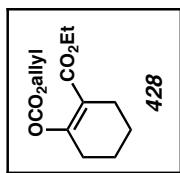
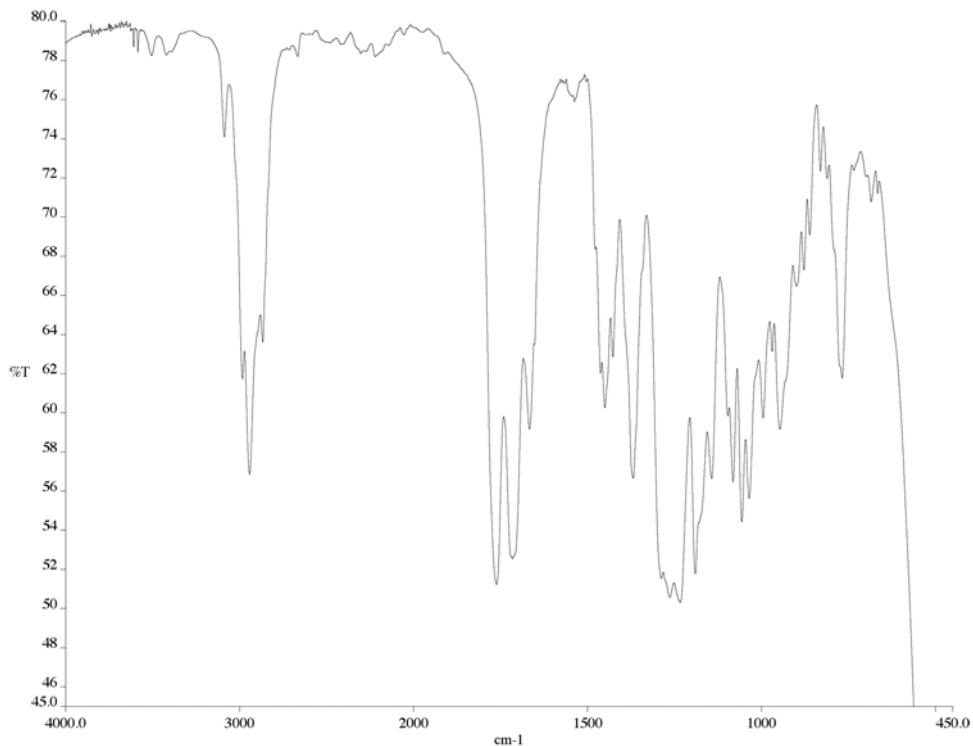
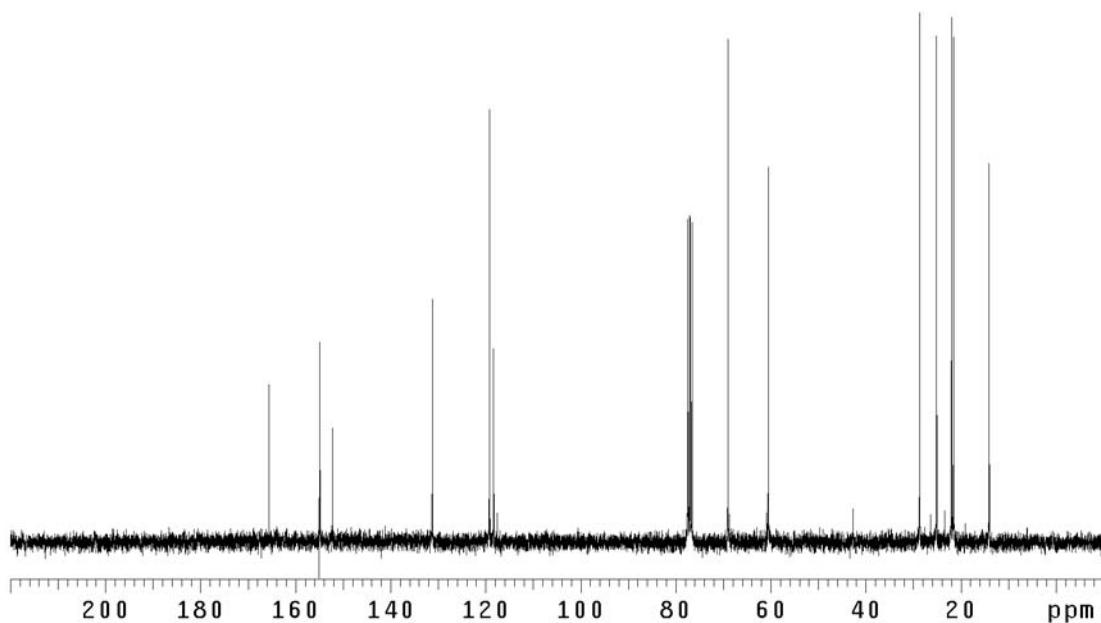


Figure A7.115 <sup>1</sup>H NMR of compound 428 (300 MHz, CDCl<sub>3</sub>)



Figure A7.116 IR of compound **428** (NaCl/film)Figure A7.117 <sup>13</sup>C NMR of compound **428** (75 MHz, CDCl<sub>3</sub>)

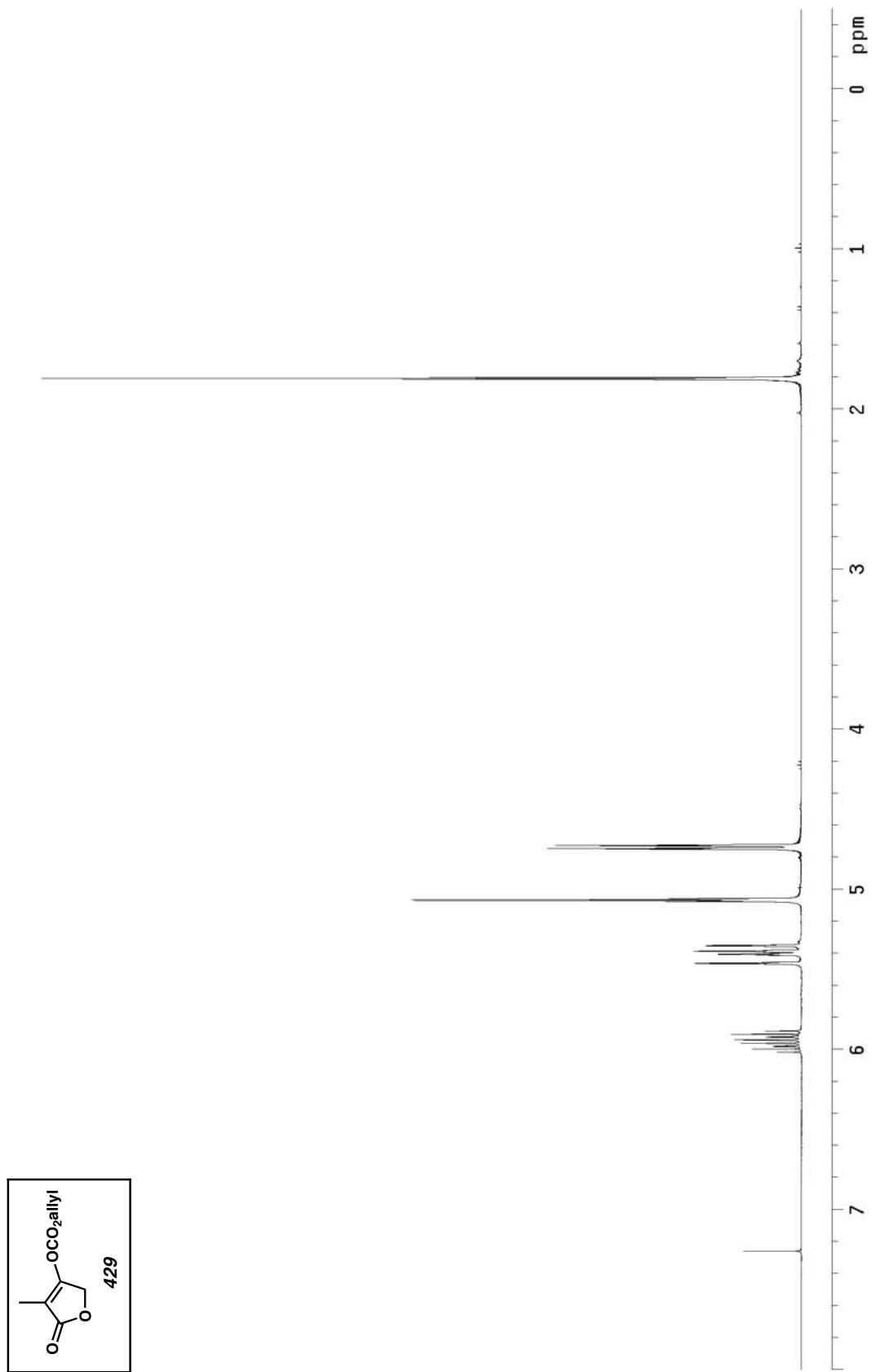


Figure A7.118 <sup>1</sup>H NMR of compound 429 (300 MHz, CDCl<sub>3</sub>)

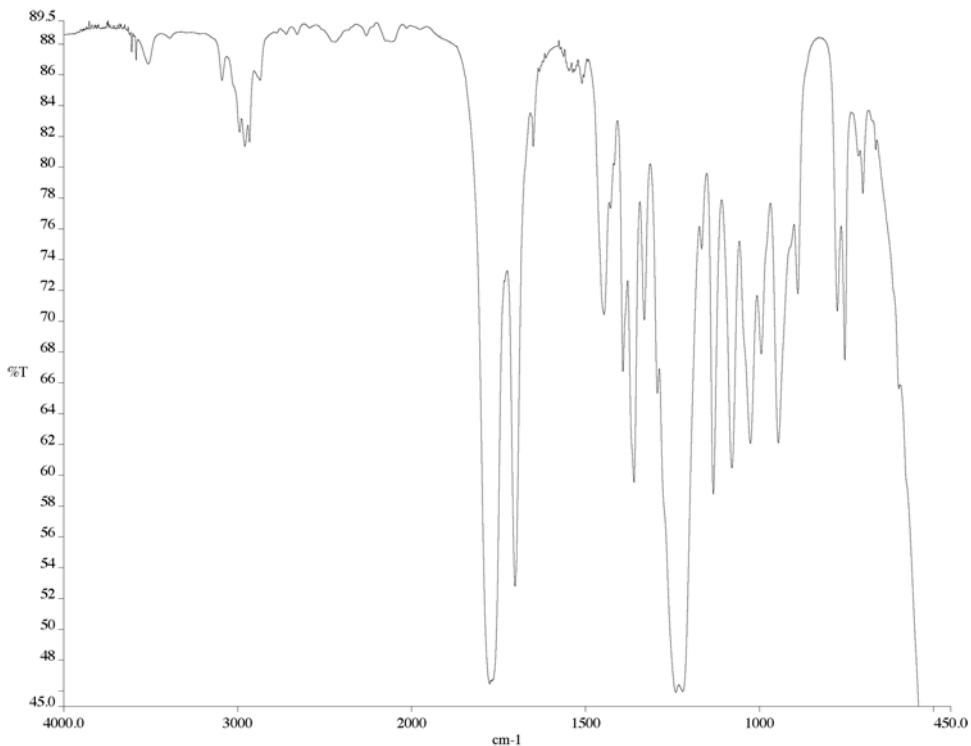


Figure A7.119 IR of compound **429** (NaCl/film)

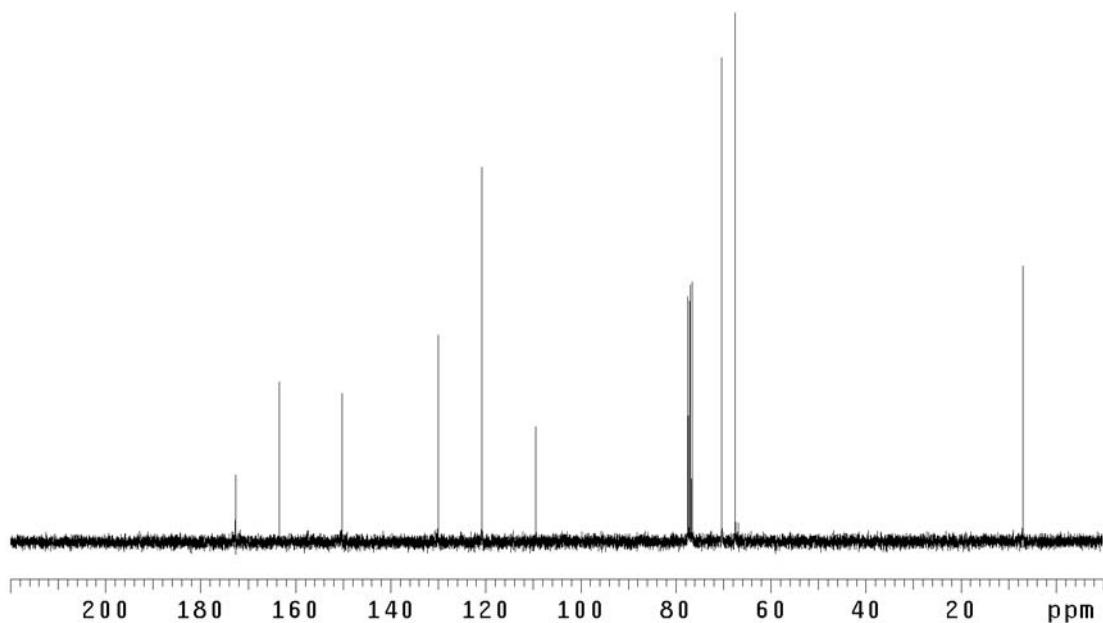


Figure A7.120 <sup>13</sup>C NMR of compound **429** (75 MHz, CDCl<sub>3</sub>)

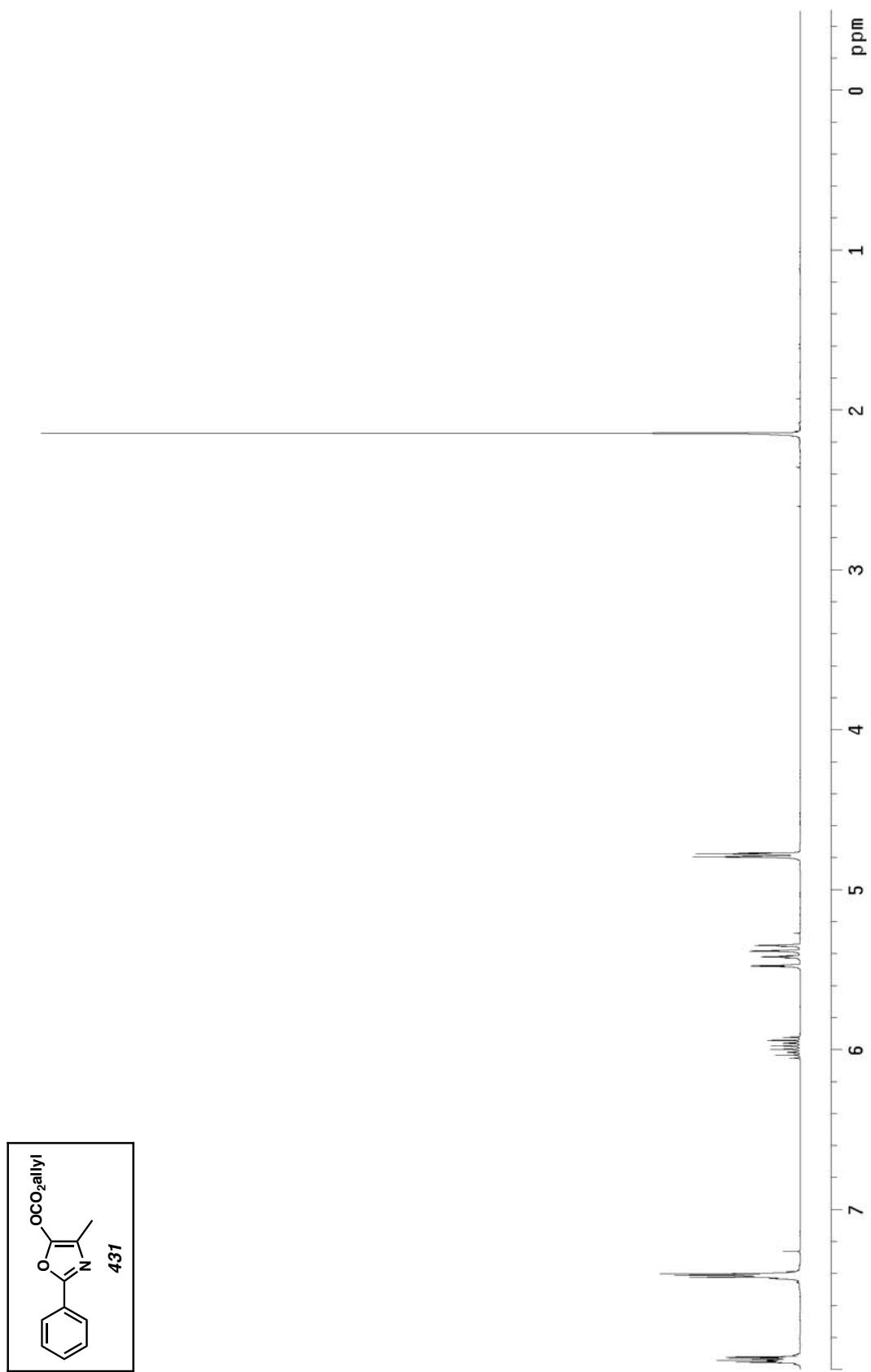


Figure A7.121 <sup>1</sup>H NMR of compound 431 (300 MHz, CDCl<sub>3</sub>)

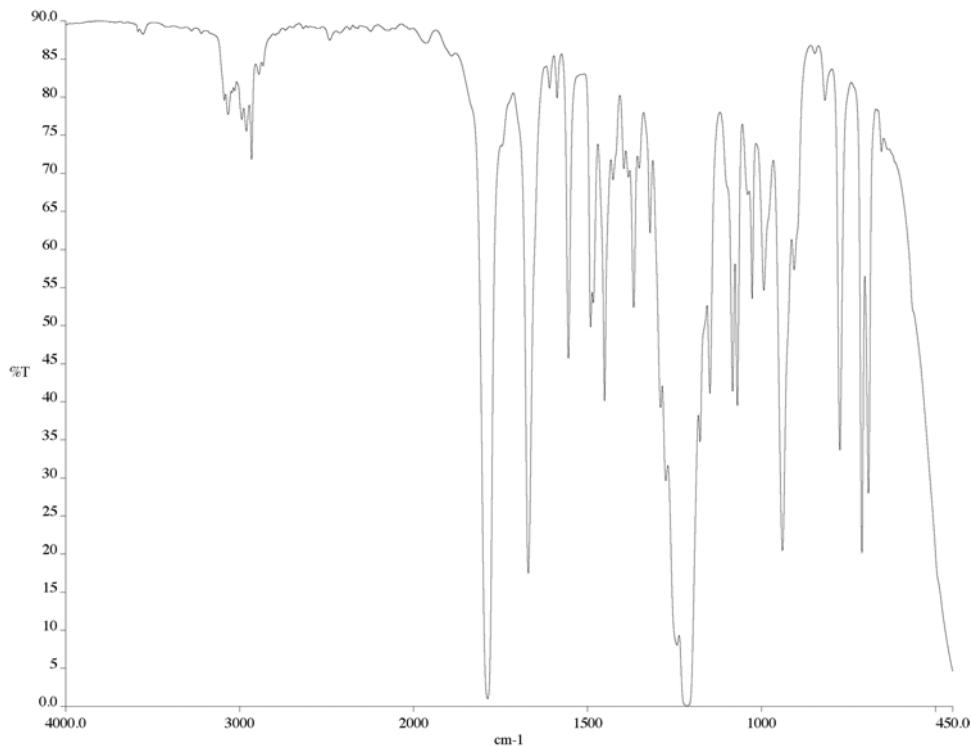


Figure A7.122 IR of compound **431** (NaCl/film)

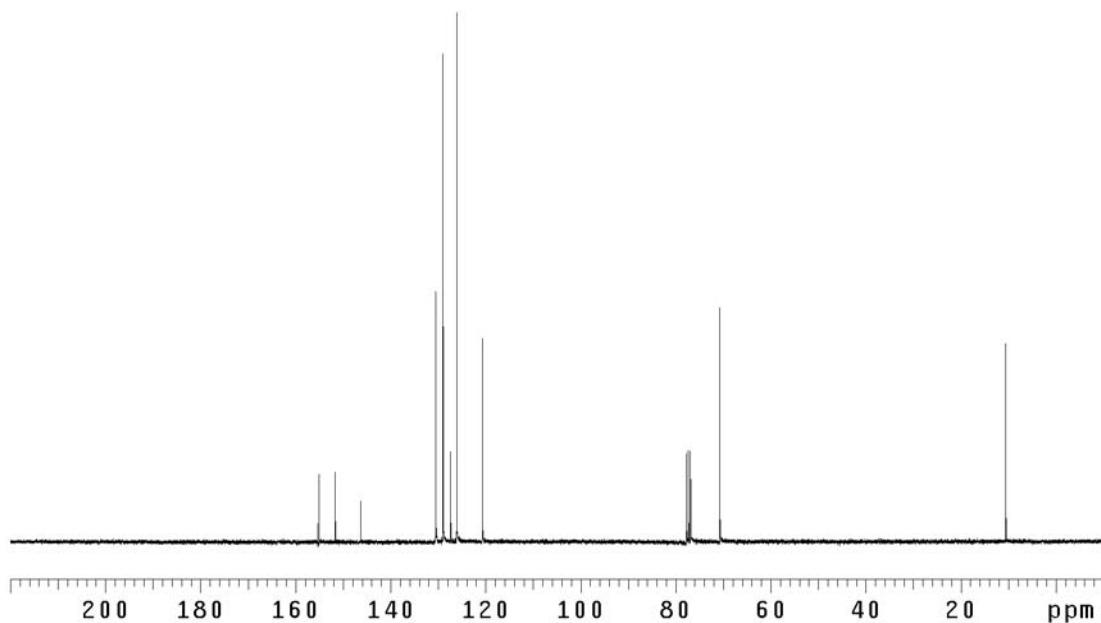


Figure A7.123 <sup>13</sup>C NMR of compound **431** (75 MHz, CDCl<sub>3</sub>)

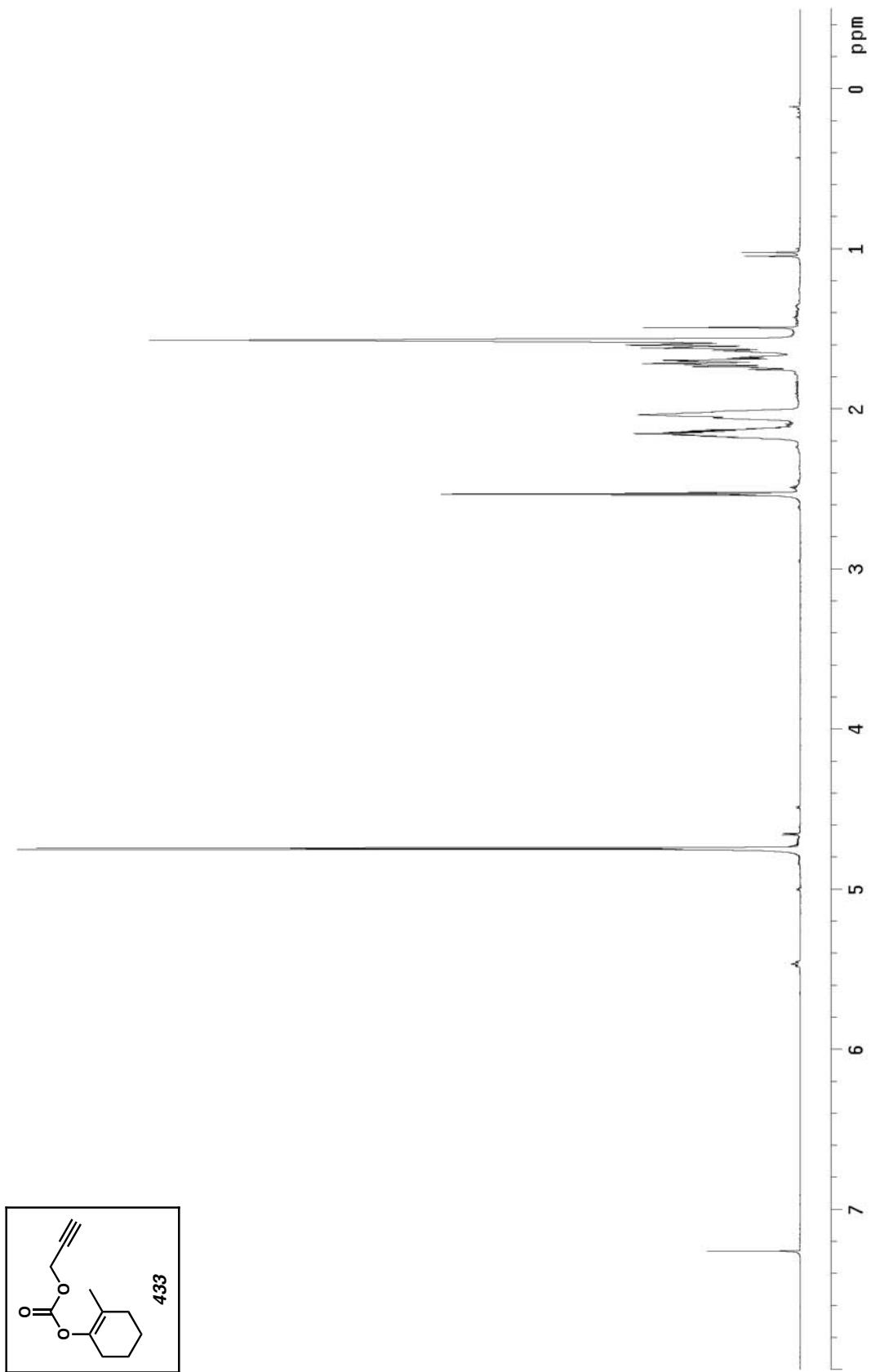


Figure A7.124 <sup>1</sup>H NMR of compound 433 (300 MHz, CDCl<sub>3</sub>)

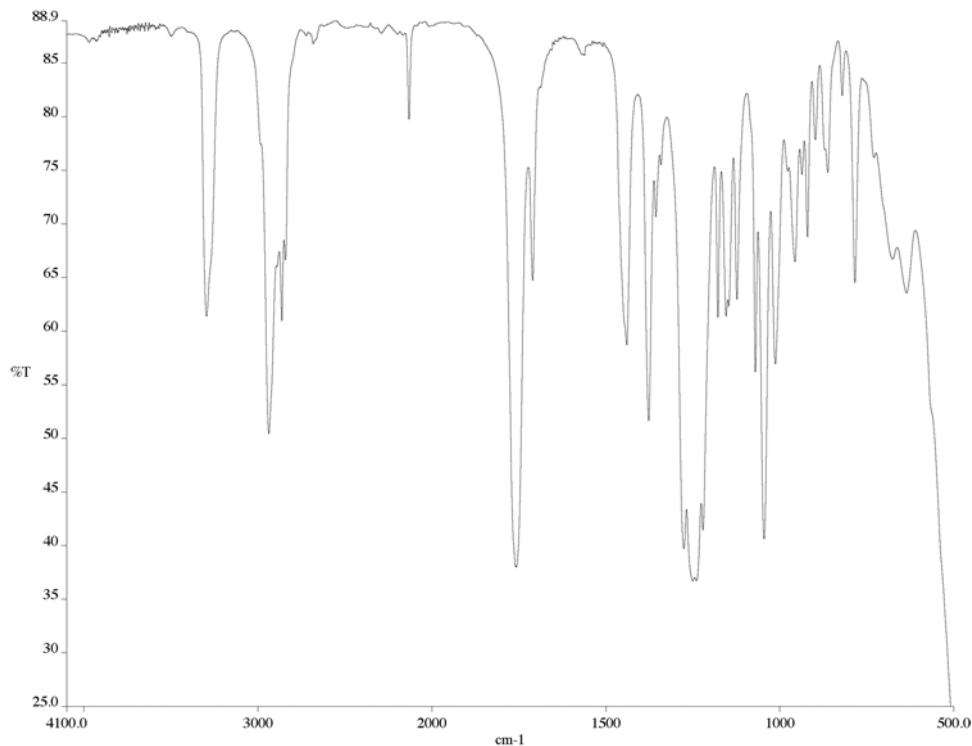


Figure A7.125 IR of compound **433** (NaCl/film)

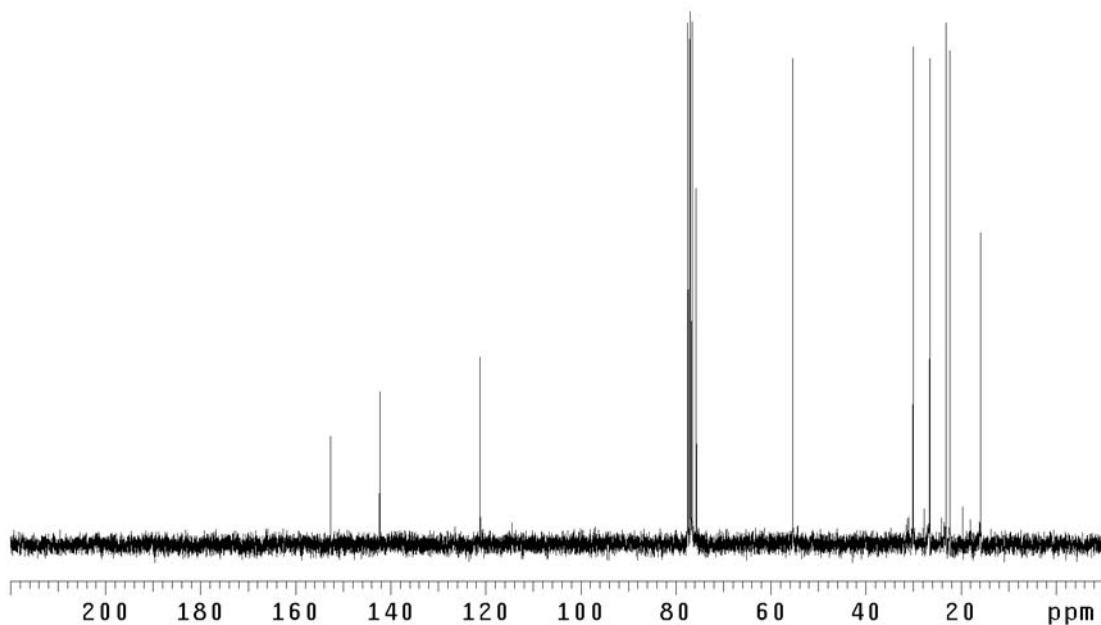


Figure A7.126 <sup>13</sup>C NMR of compound **433** (75 MHz, CDCl<sub>3</sub>)

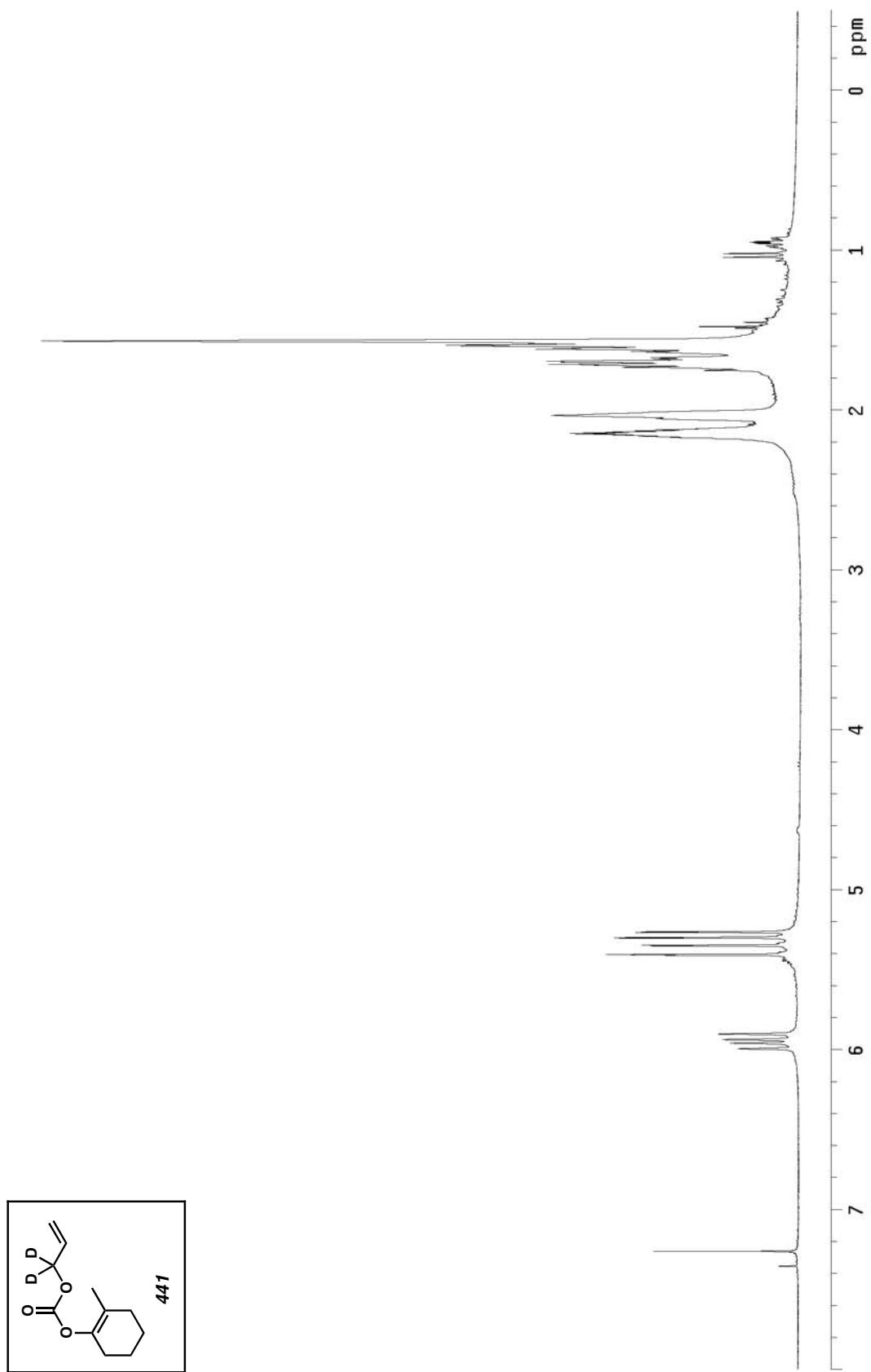


Figure A7.127  $^1\text{H}$  NMR of compound 441 (300 MHz,  $\text{CDCl}_3$ )

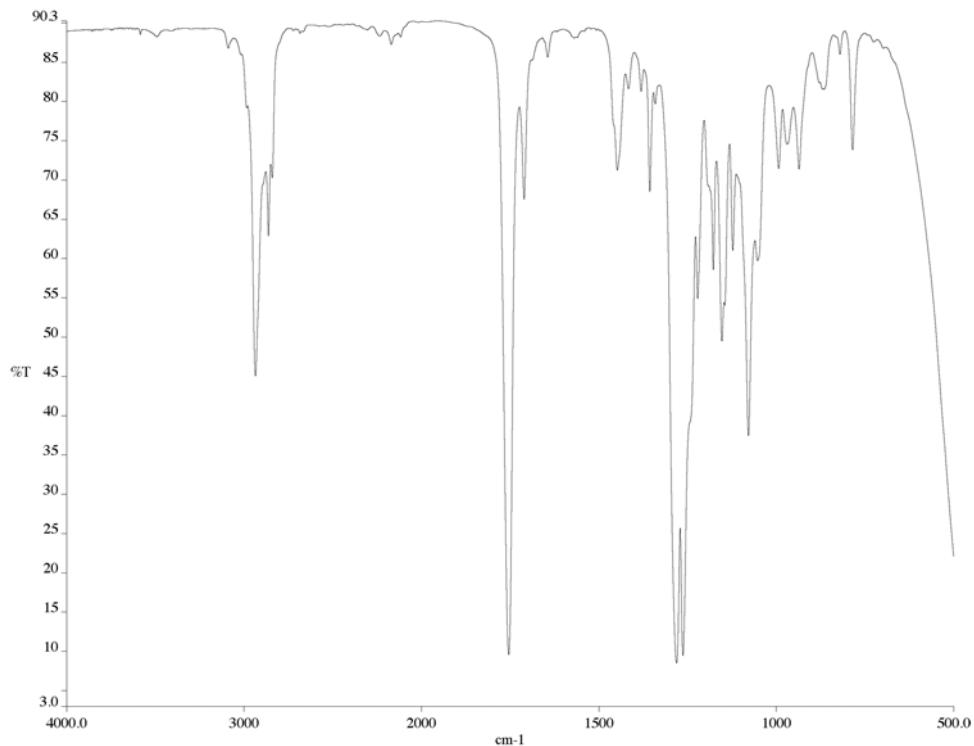


Figure A7.128 IR of compound **441** (NaCl/film)

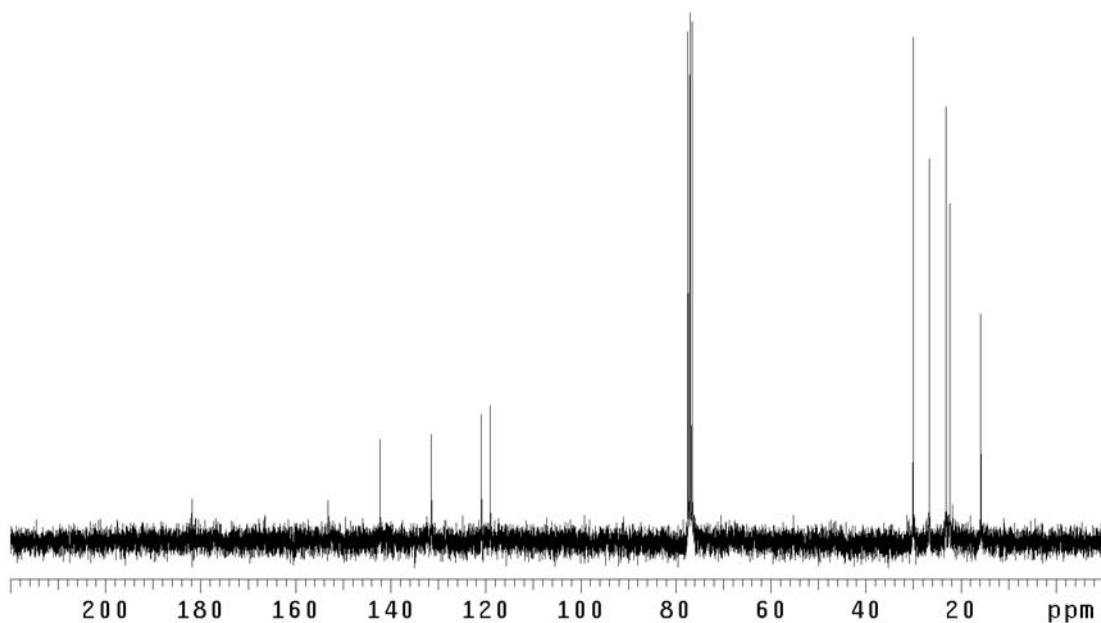


Figure A7.129 <sup>13</sup>C NMR of compound **441** (75 MHz, CDCl<sub>3</sub>)

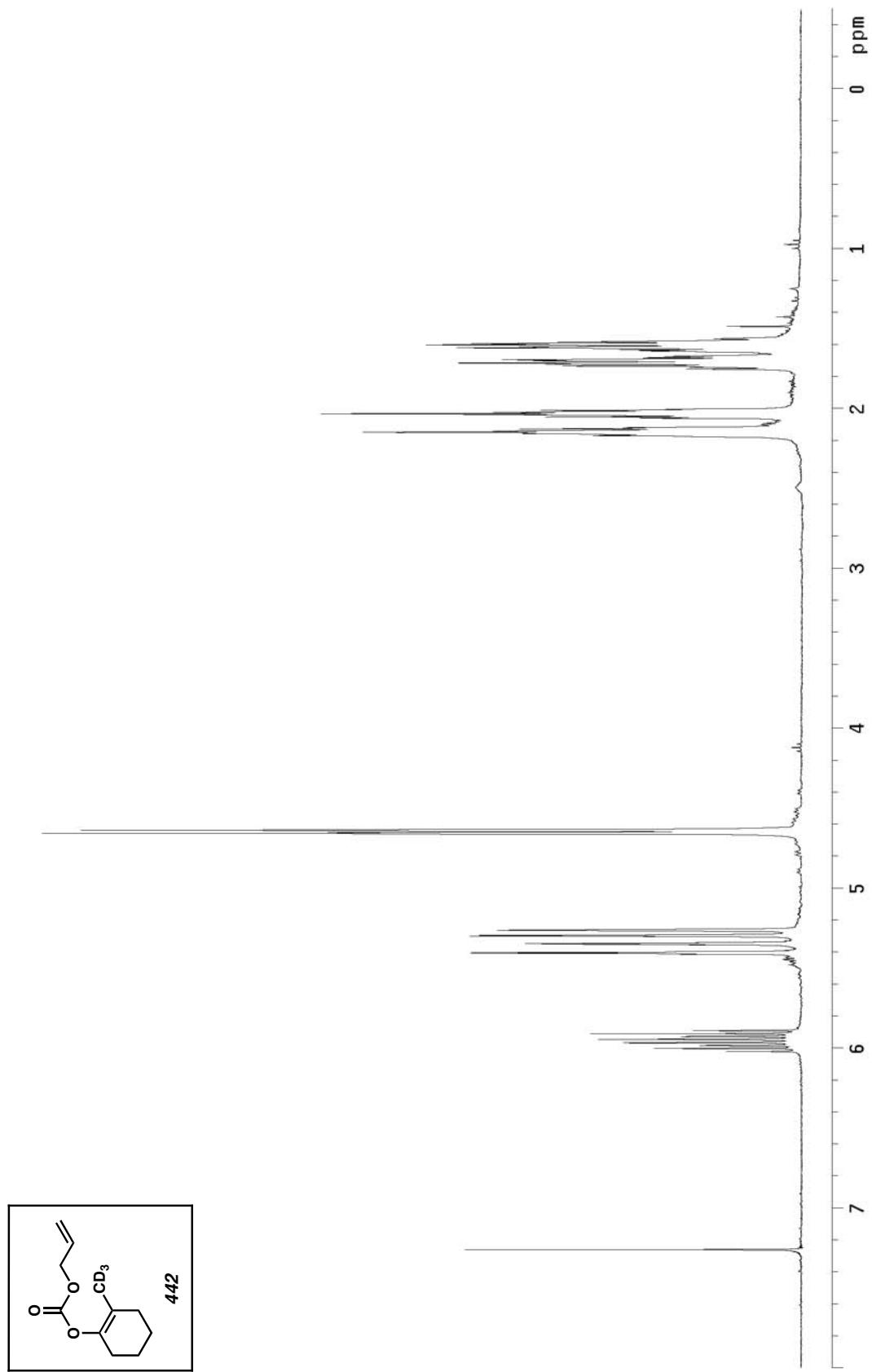


Figure A7.130  $^1\text{H}$  NMR of compound 442 (300 MHz,  $\text{CDCl}_3$ )

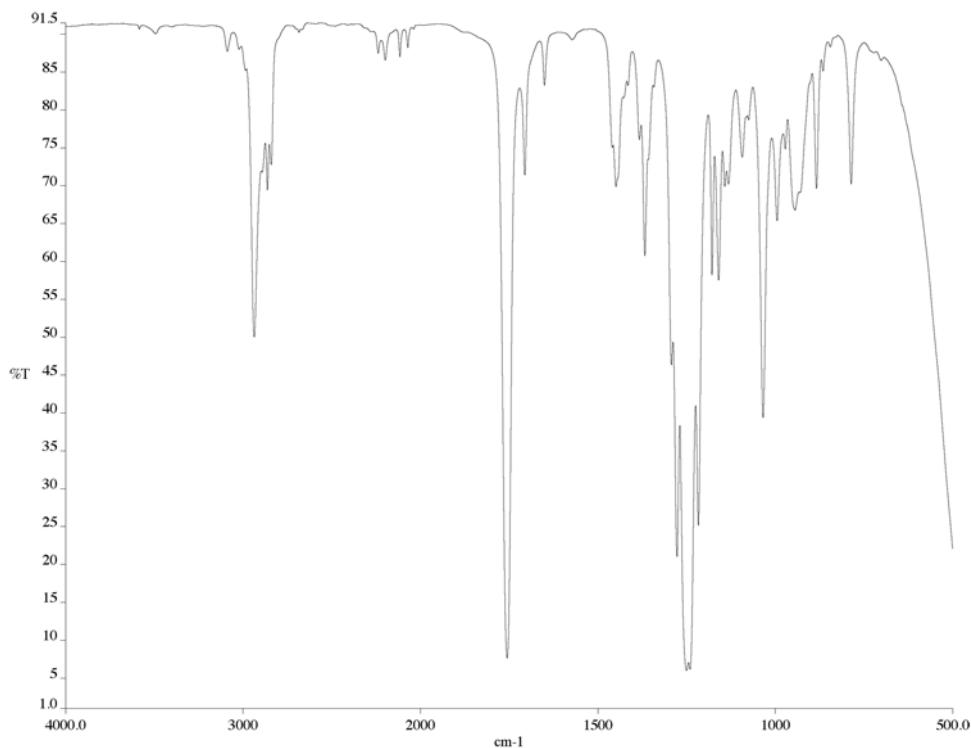


Figure A7.131 IR of compound **442** (NaCl/film)

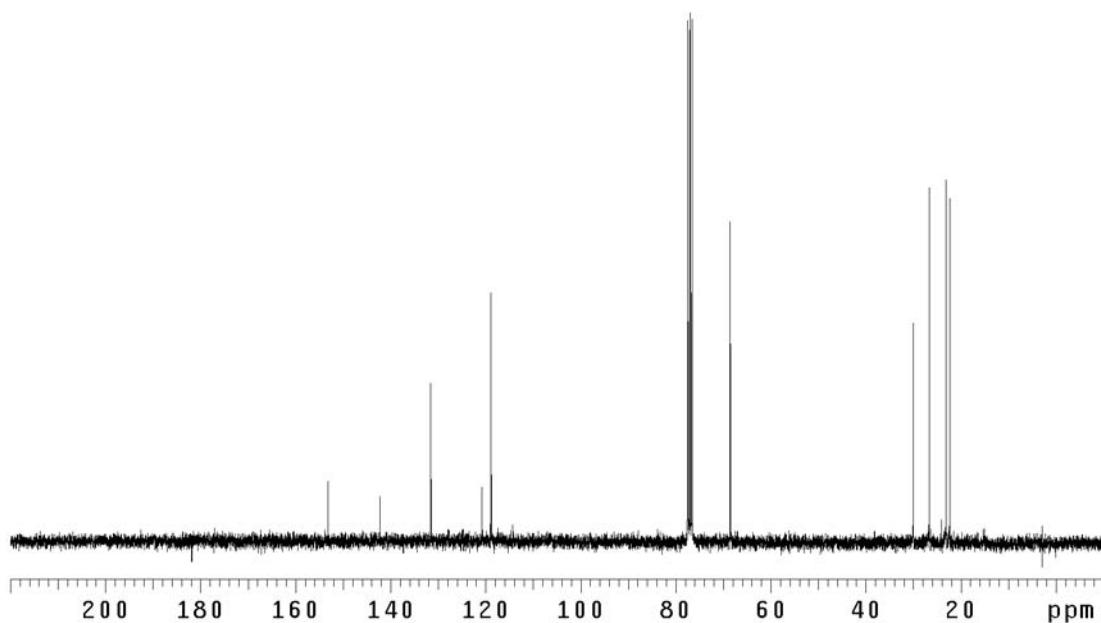


Figure A7.132 <sup>13</sup>C NMR of compound **442** (75 MHz, CDCl<sub>3</sub>)

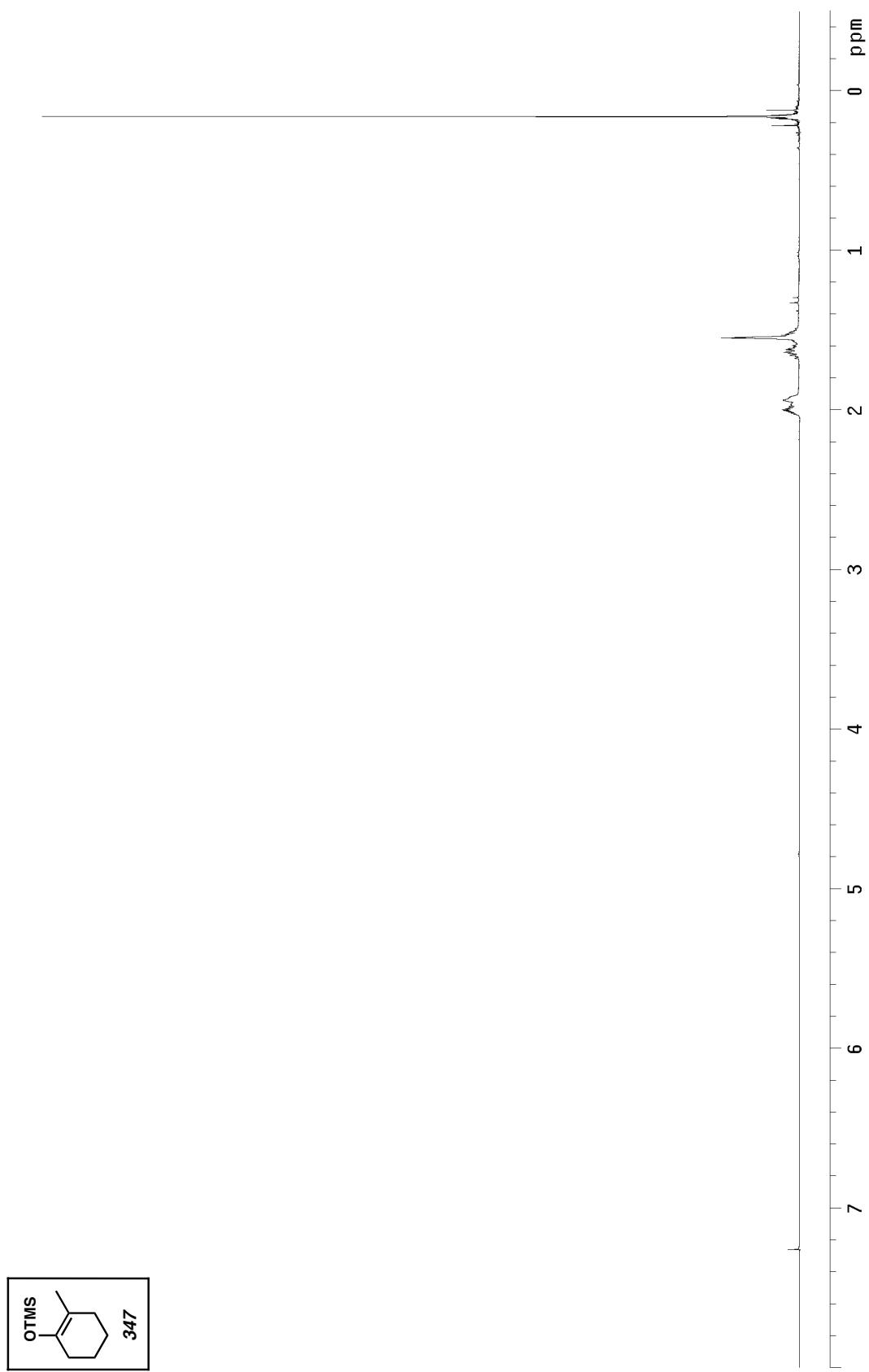


Figure A7.133 <sup>1</sup>H NMR of compound 347 (300 MHz, CDCl<sub>3</sub>)

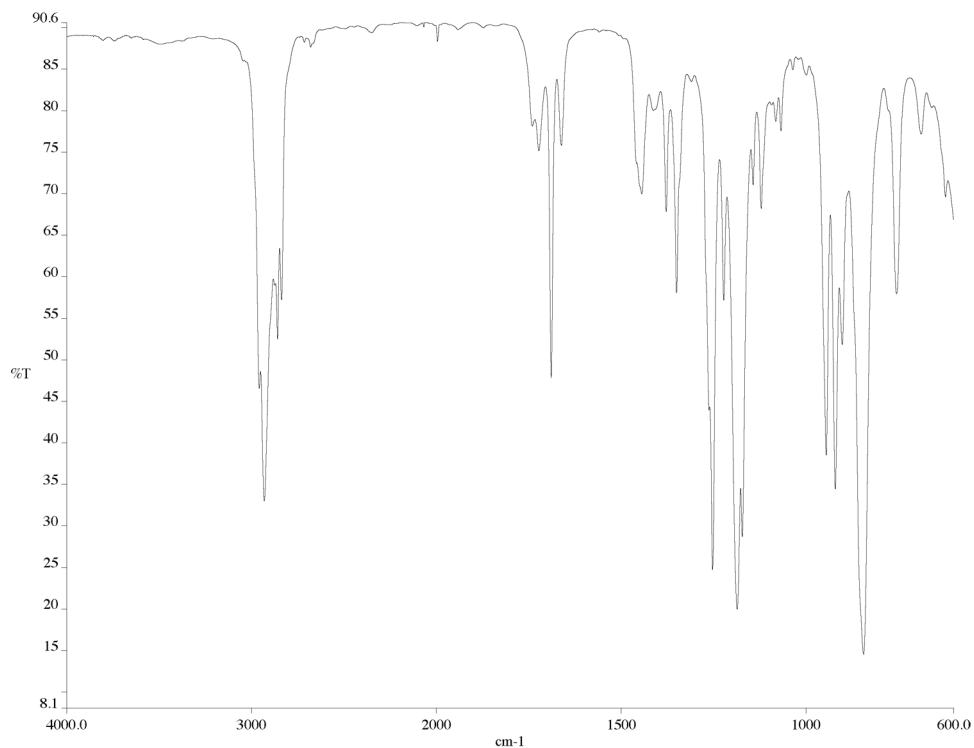


Figure A7.134 IR of compound **347** (NaCl/film)

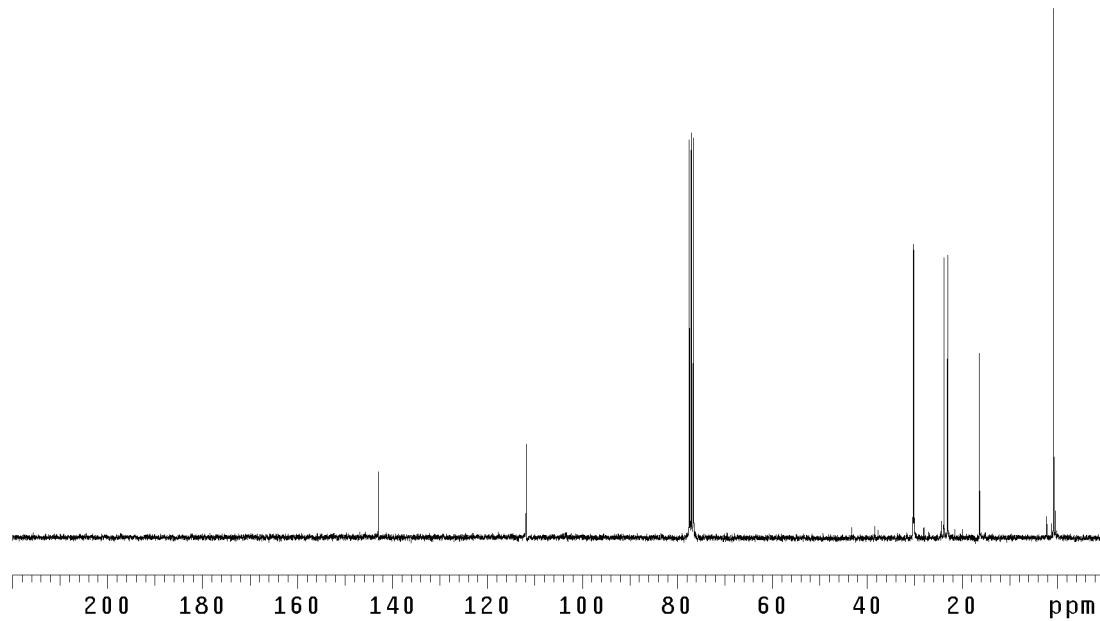


Figure A7.135 <sup>13</sup>C NMR of compound **347** (75 MHz, CDCl<sub>3</sub>)

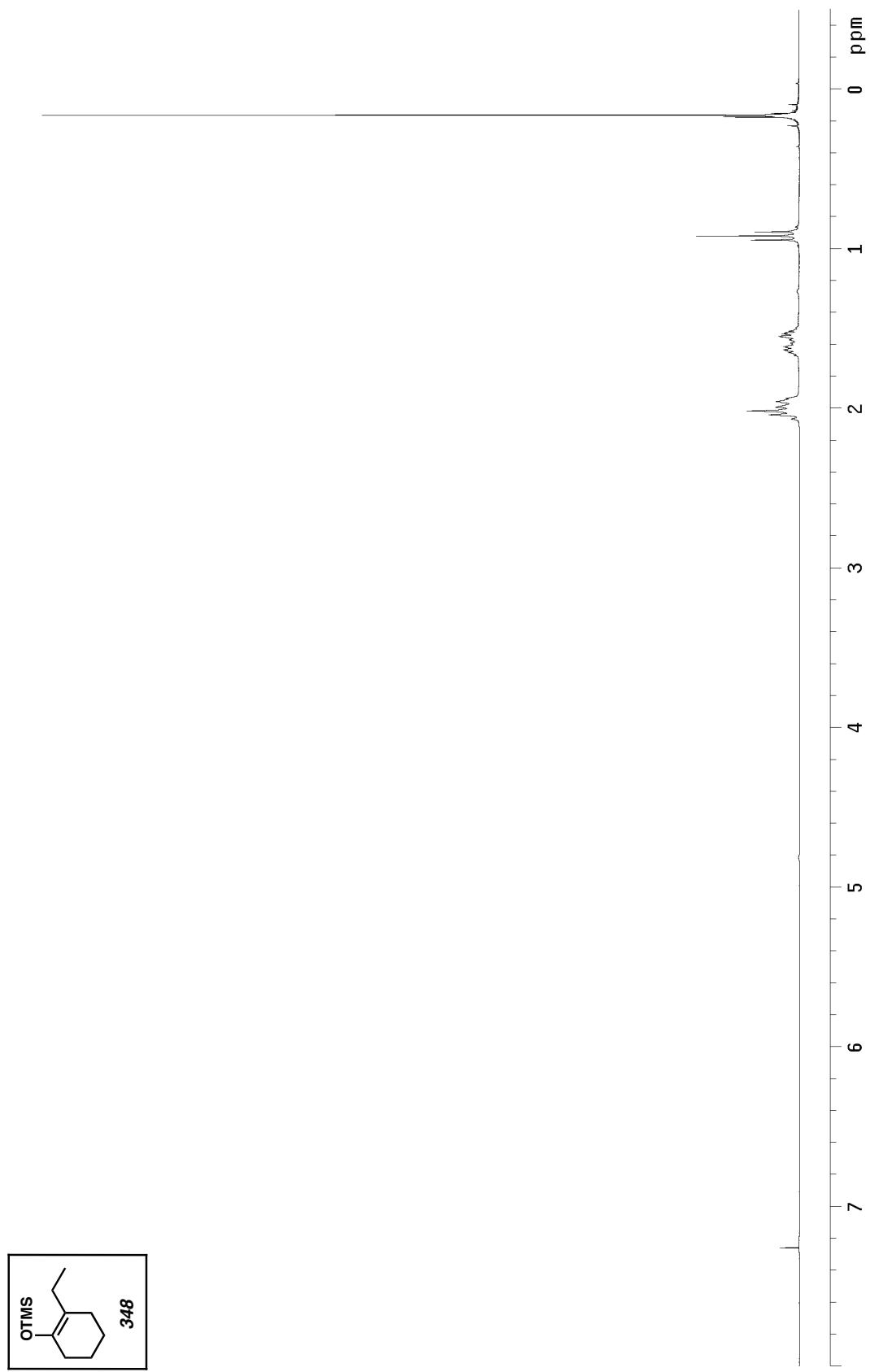


Figure A7.136 <sup>1</sup>H NMR of compound 348 (300 MHz, CDCl<sub>3</sub>)

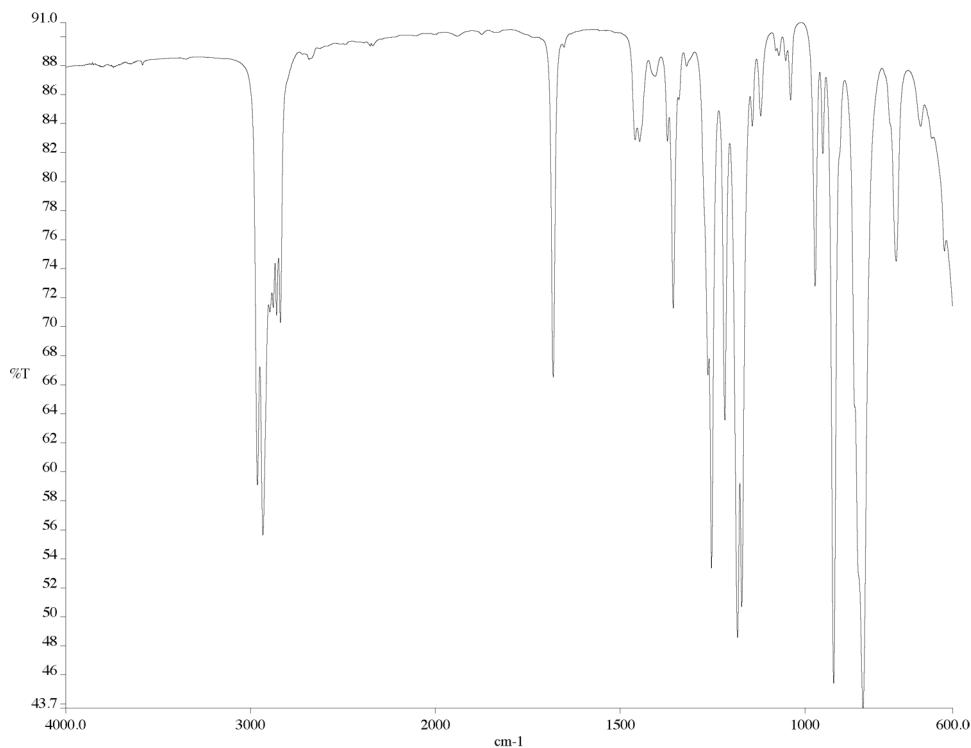


Figure A7.137 IR of compound **348** (NaCl/film)

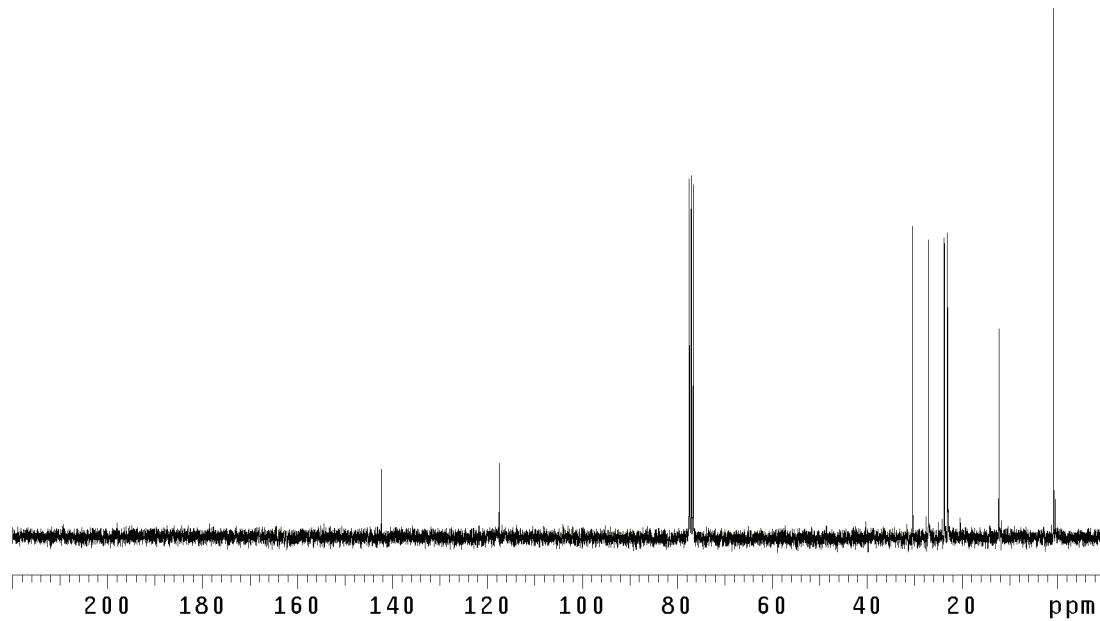


Figure A7.138 <sup>13</sup>C NMR of compound **348** (75 MHz, CDCl<sub>3</sub>)

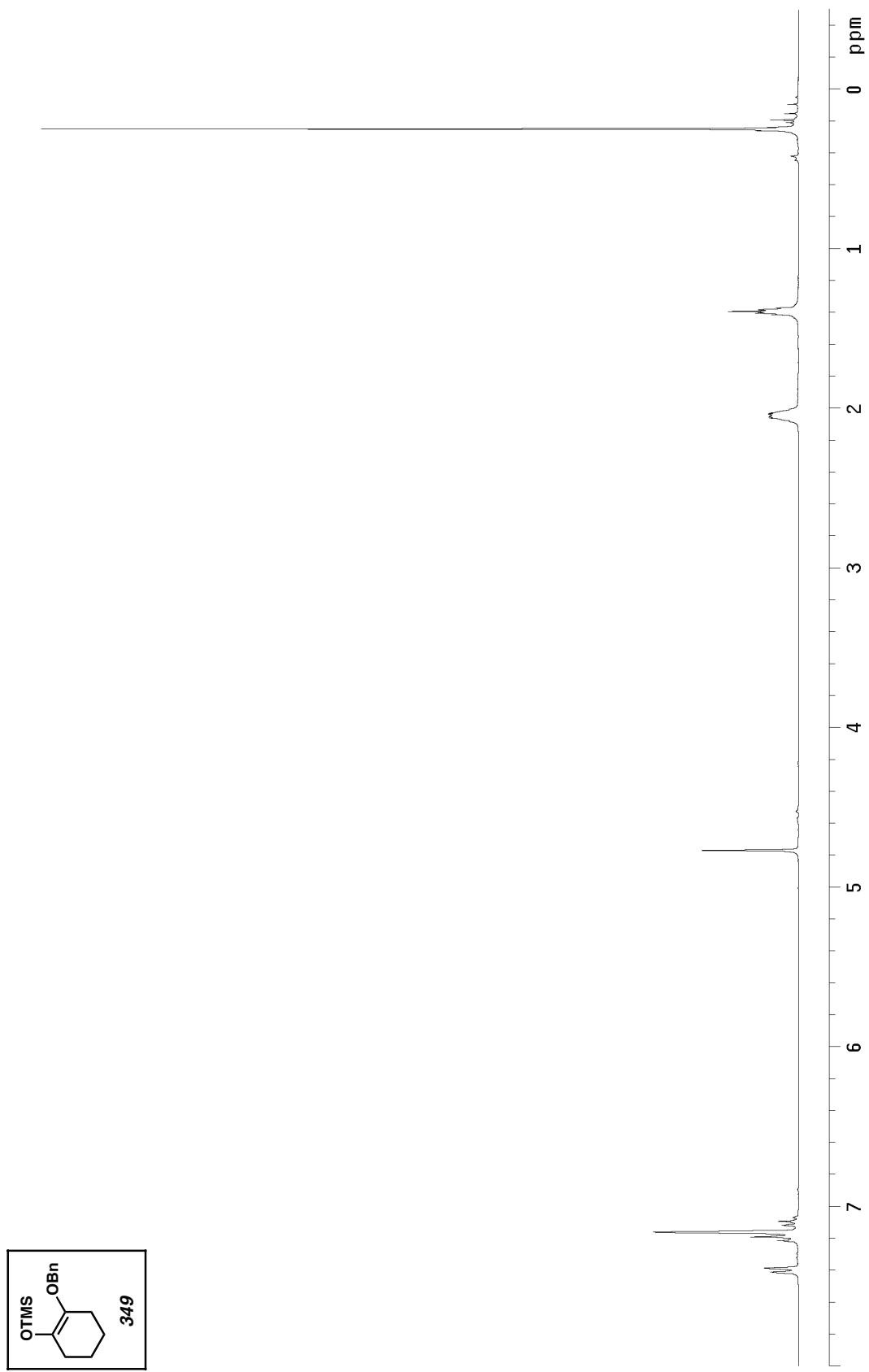


Figure A7.139 <sup>1</sup>H NMR of compound 349 (300 MHz, C<sub>6</sub>D<sub>6</sub>)

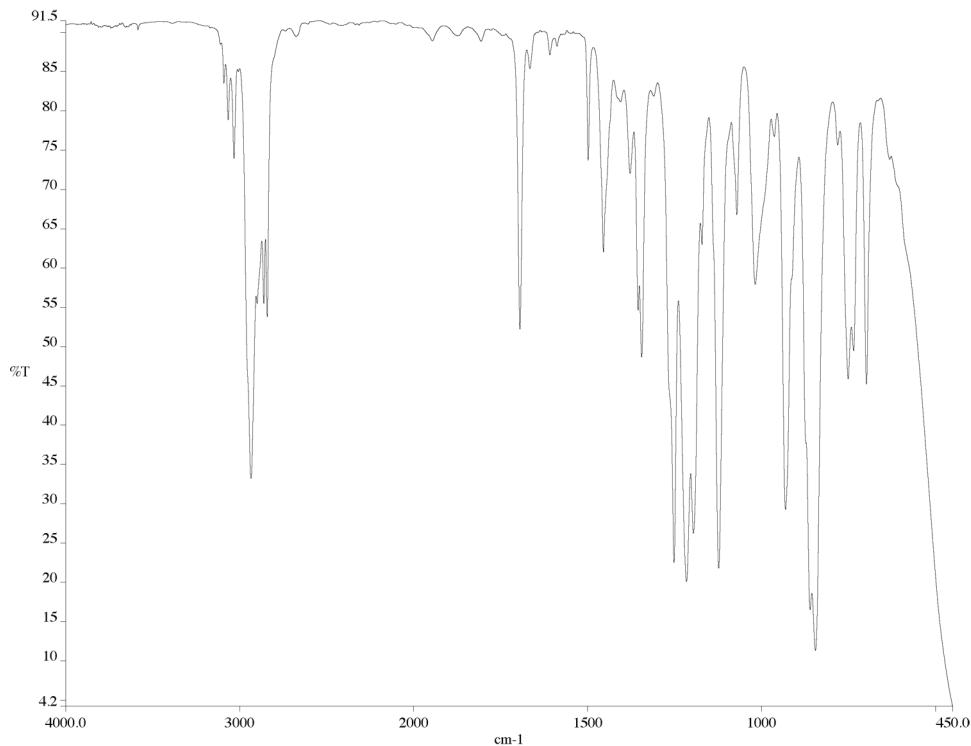


Figure A7.140 IR of compound **349** (NaCl/film)

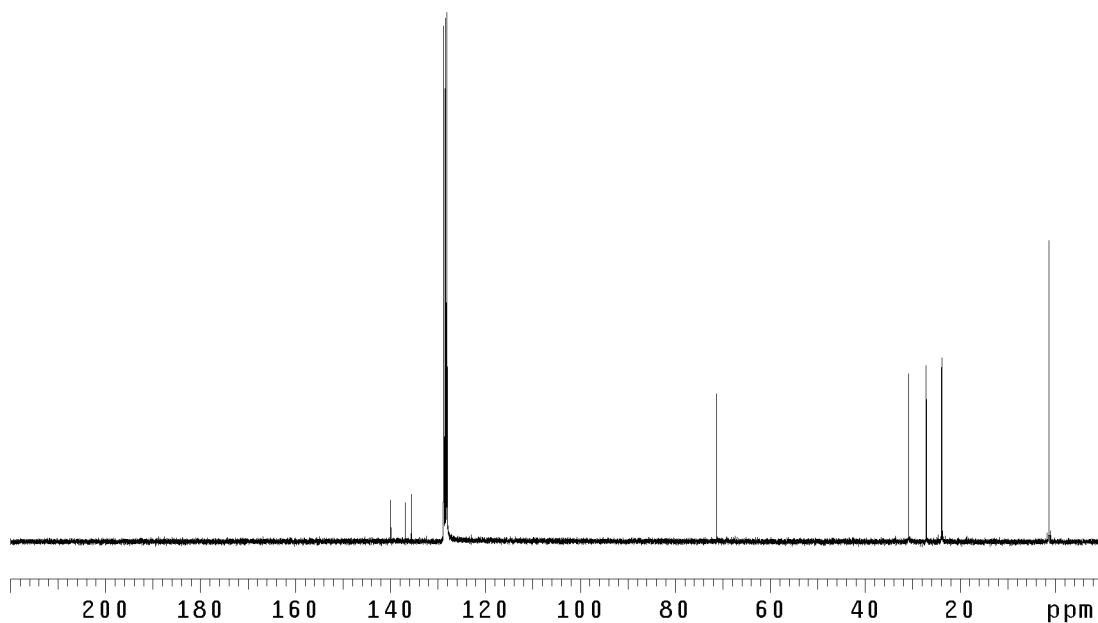


Figure A7.141 <sup>13</sup>C NMR of compound **349** (75 MHz, C<sub>6</sub>D<sub>6</sub>)

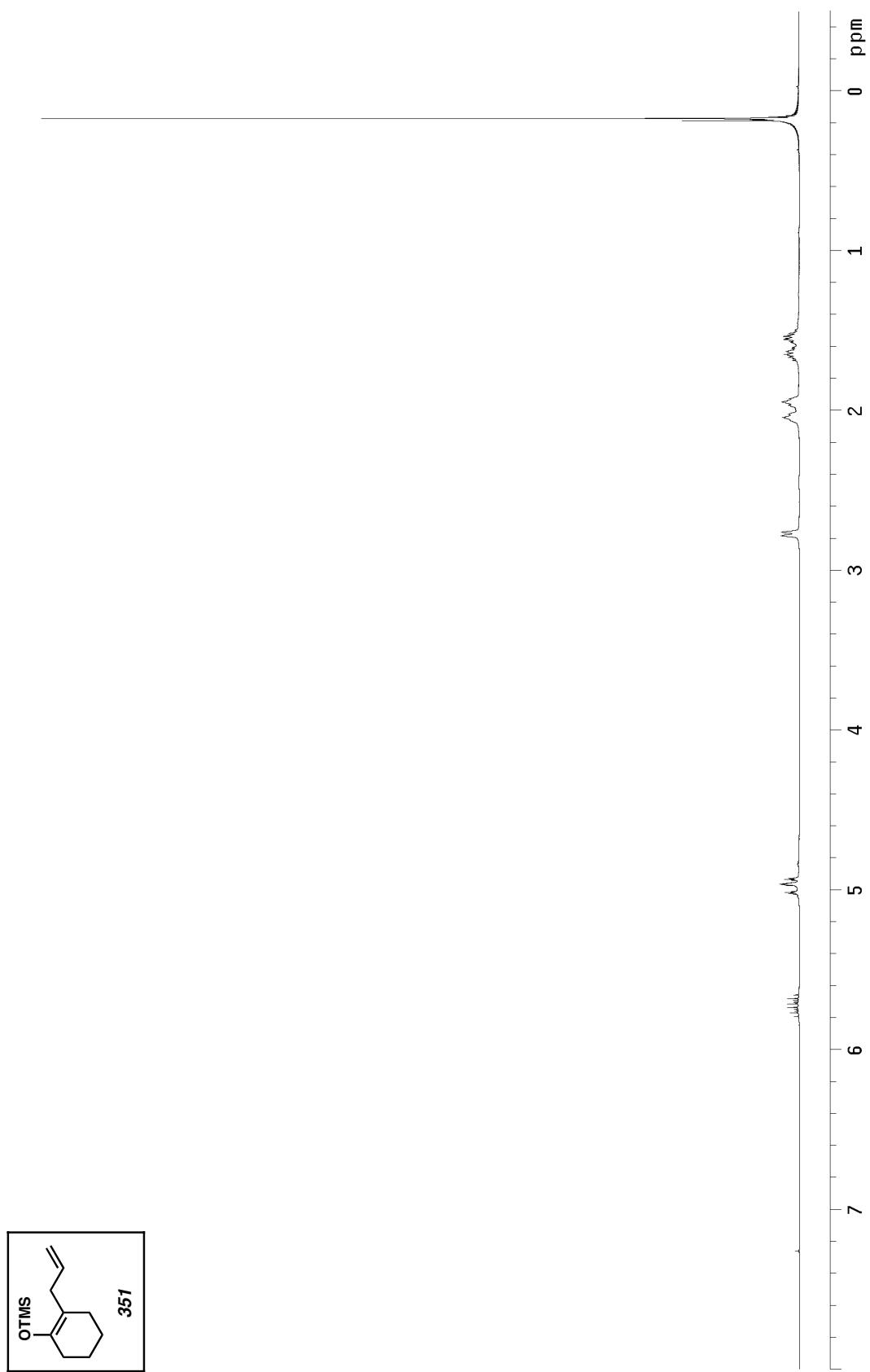


Figure A7.142 <sup>1</sup>H NMR of compound 351 (300 MHz, CDCl<sub>3</sub>)

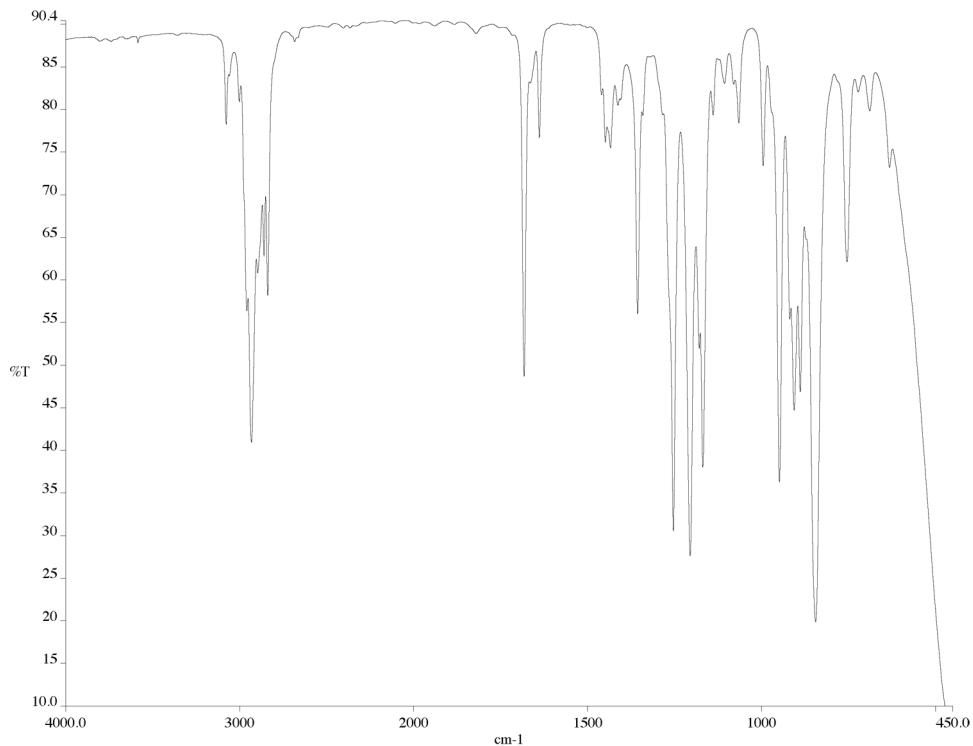


Figure A7.143 IR of compound **351** (NaCl/film)

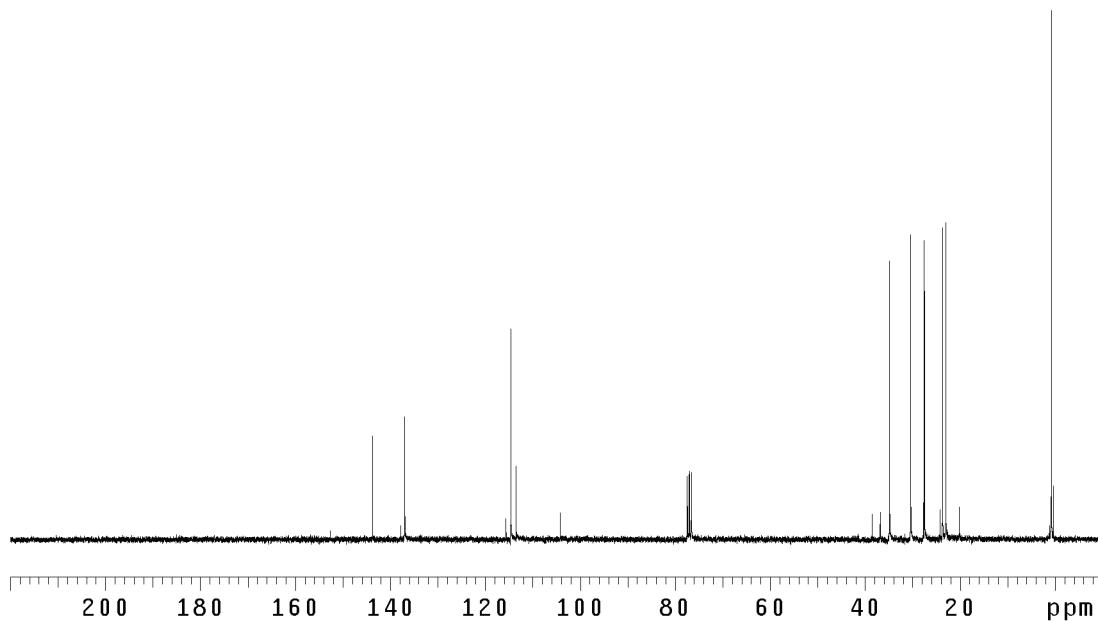


Figure A7.144 <sup>13</sup>C NMR of compound **351** (75 MHz, CDCl<sub>3</sub>)

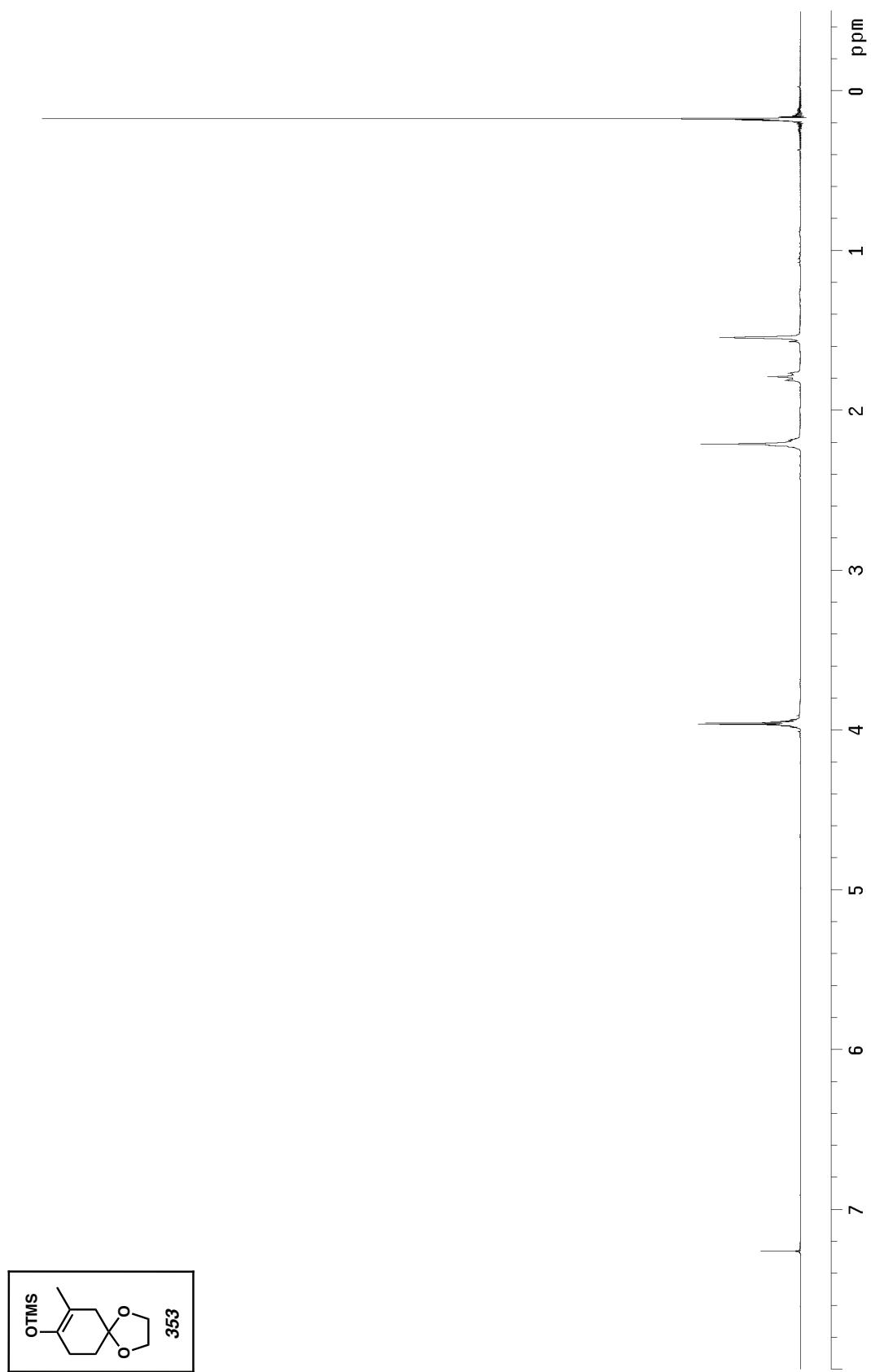


Figure A7.145 <sup>1</sup>H NMR of compound 353 (300 MHz, CDCl<sub>3</sub>)

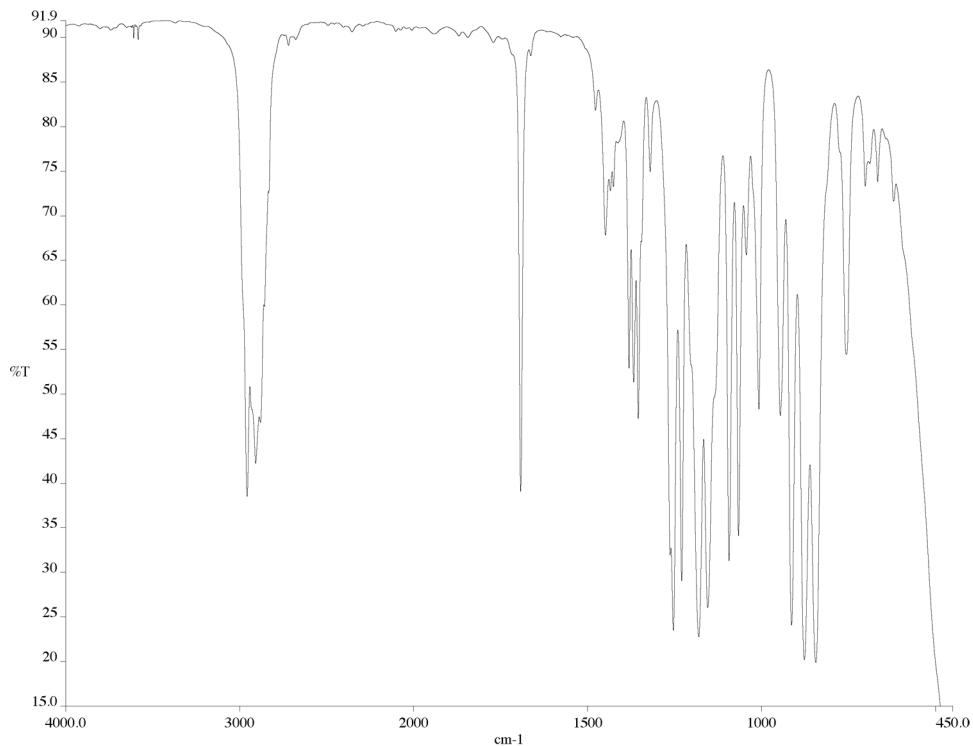


Figure A7.146 IR of compound **353** (NaCl/film)

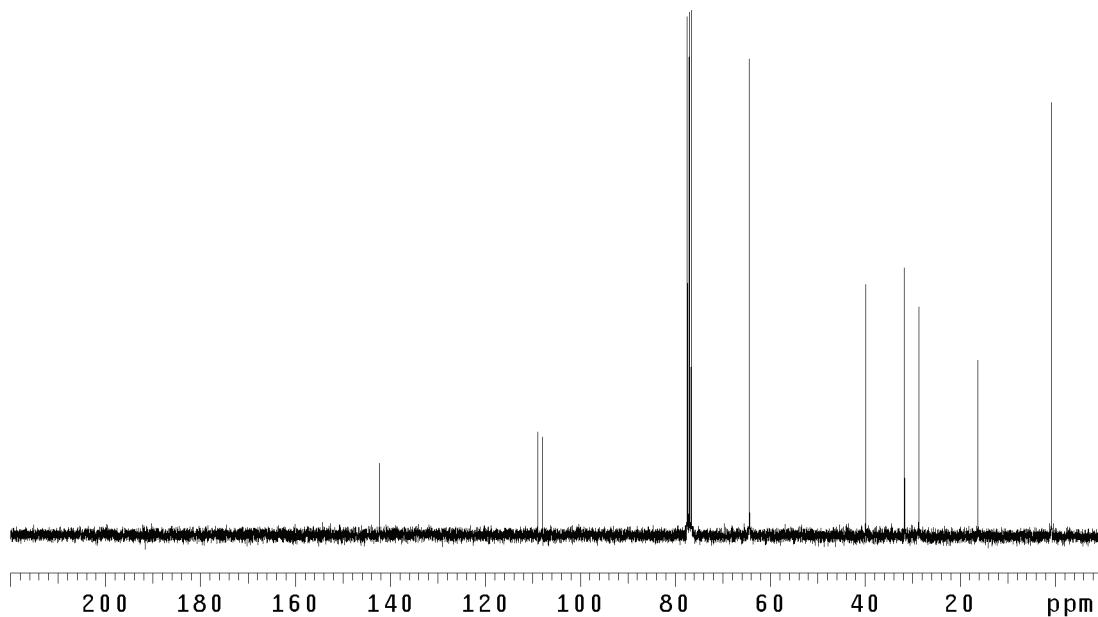


Figure A7.147 <sup>13</sup>C NMR of compound **353** (75 MHz, CDCl<sub>3</sub>)

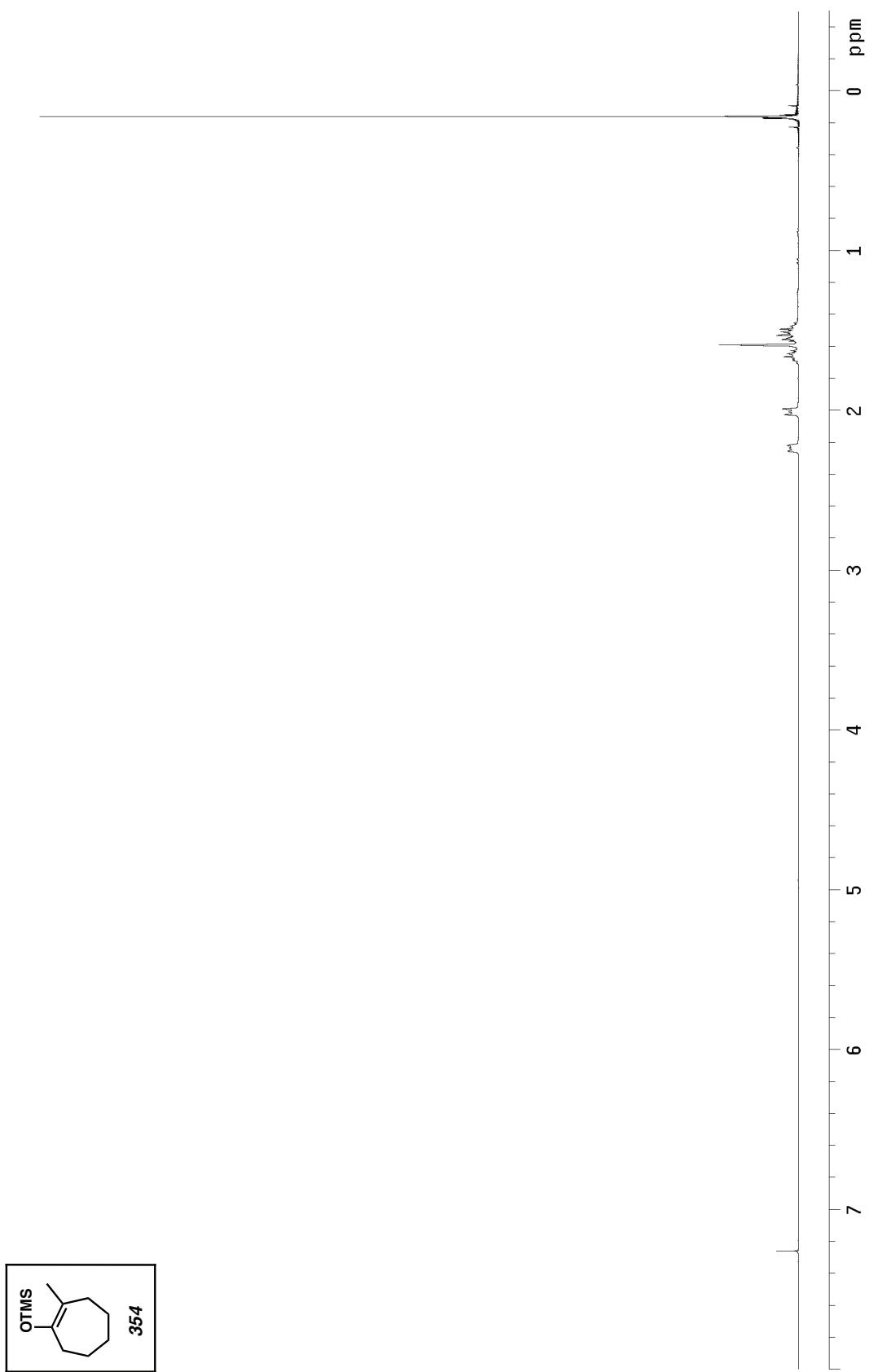
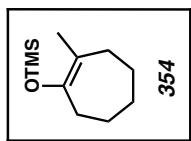


Figure A7.148 <sup>1</sup>H NMR of compound 354 (300 MHz, CDCl<sub>3</sub>)



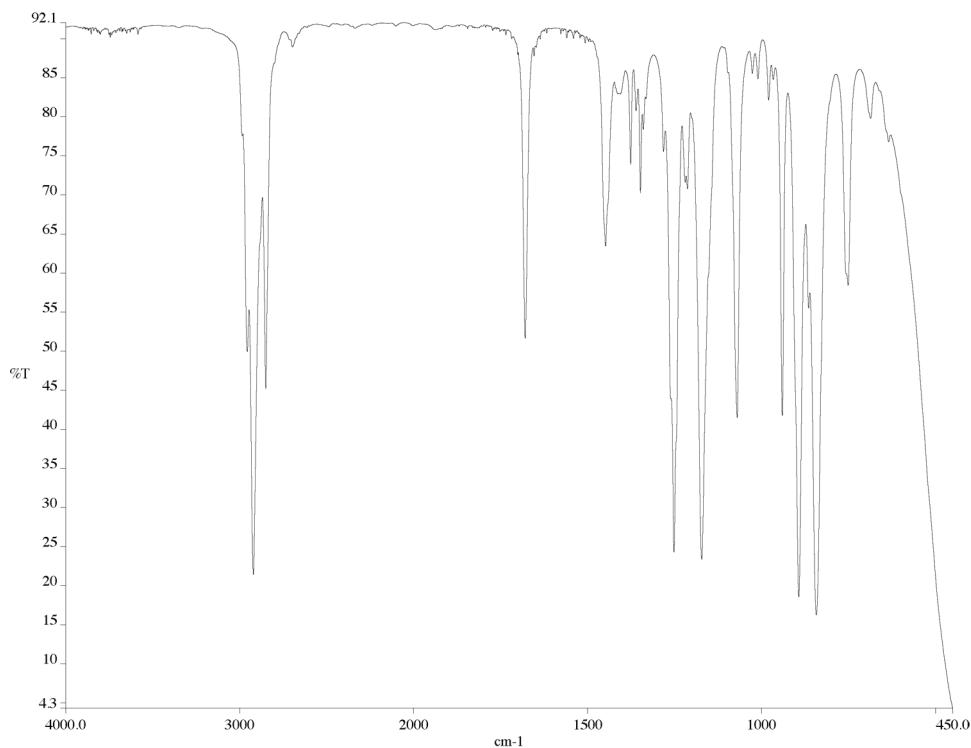


Figure A7.149 IR of compound **354** (NaCl/film)

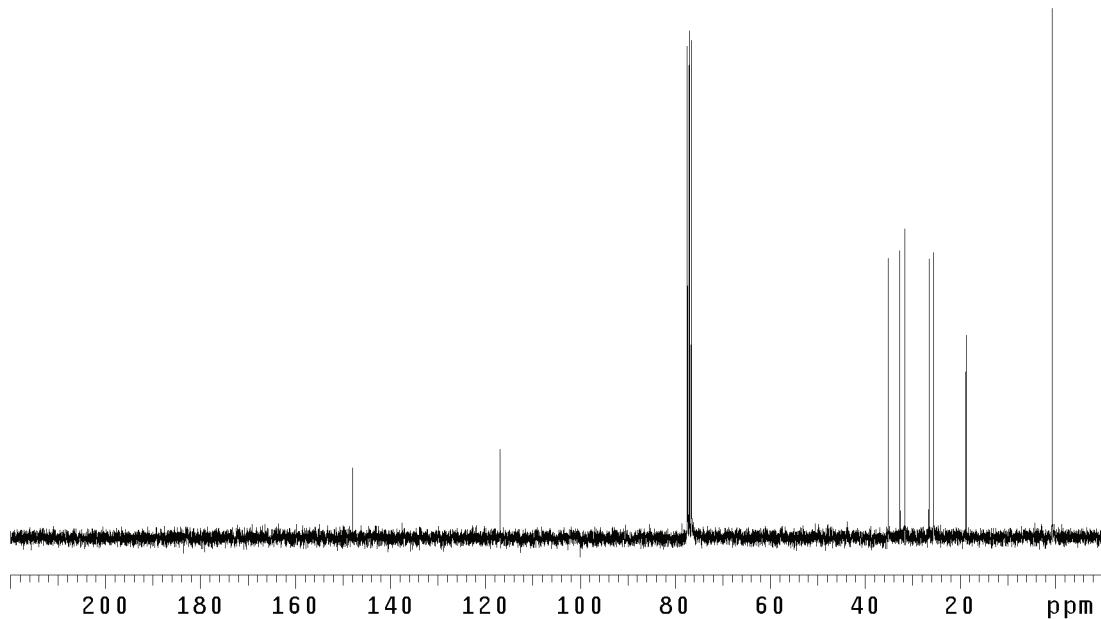


Figure A7.150 <sup>13</sup>C NMR of compound **354** (75 MHz, CDCl<sub>3</sub>)

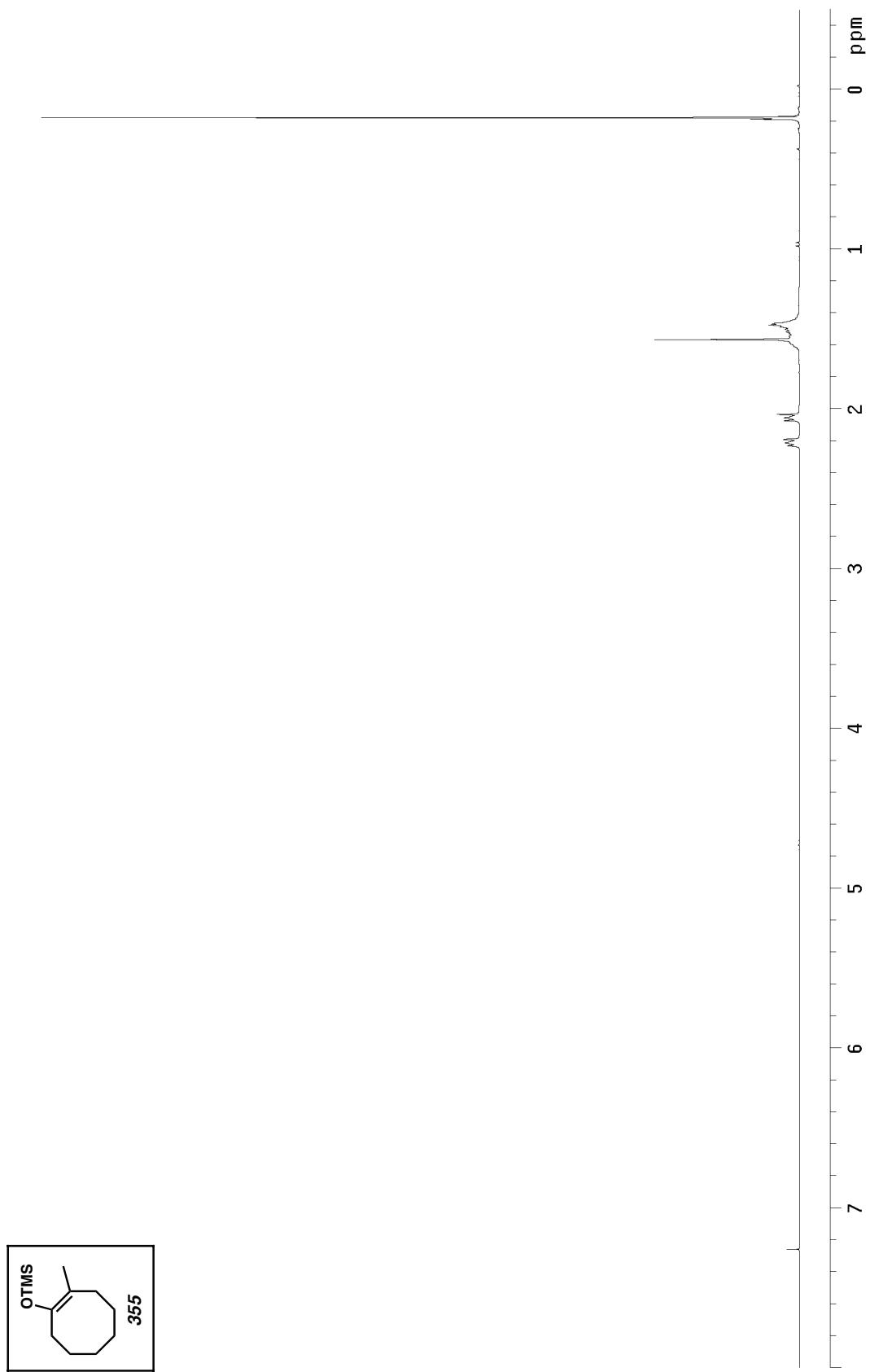
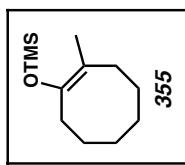
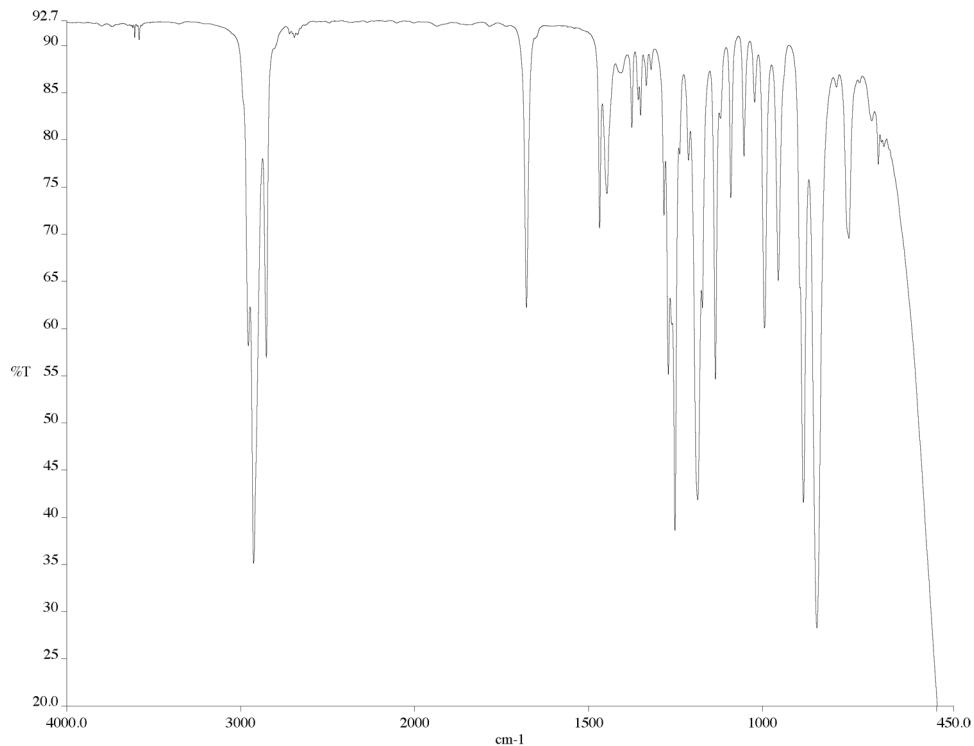
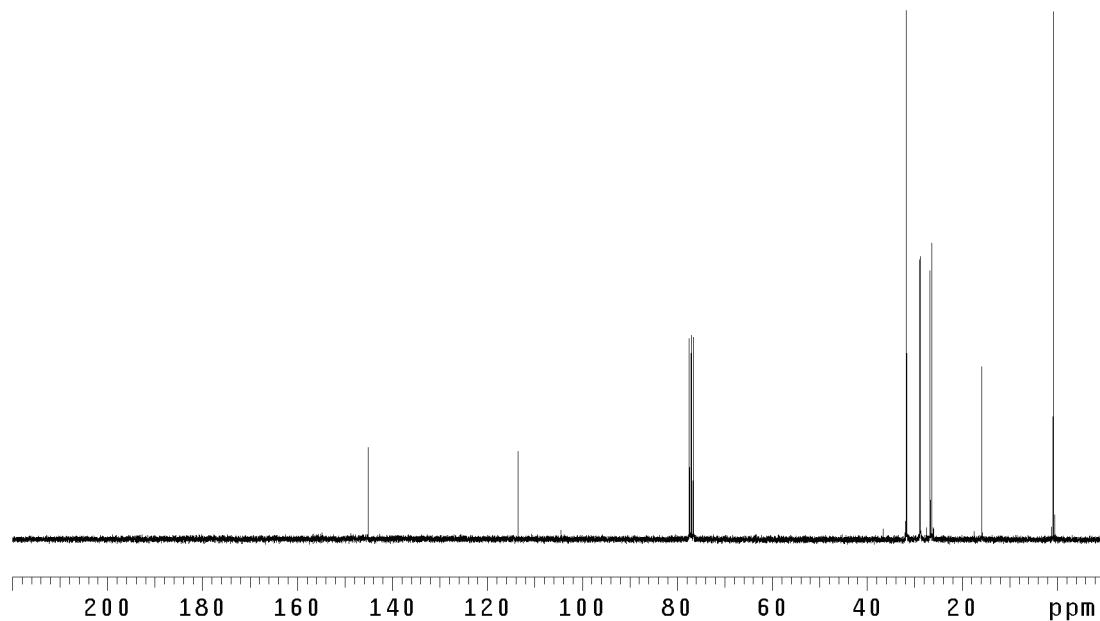


Figure A7.151 <sup>1</sup>H NMR of compound 355 (300 MHz, CDCl<sub>3</sub>)



Figure A7.152 IR of compound **355** (NaCl/film)Figure A7.153 <sup>13</sup>C NMR of compound **355** (75 MHz, CDCl<sub>3</sub>)

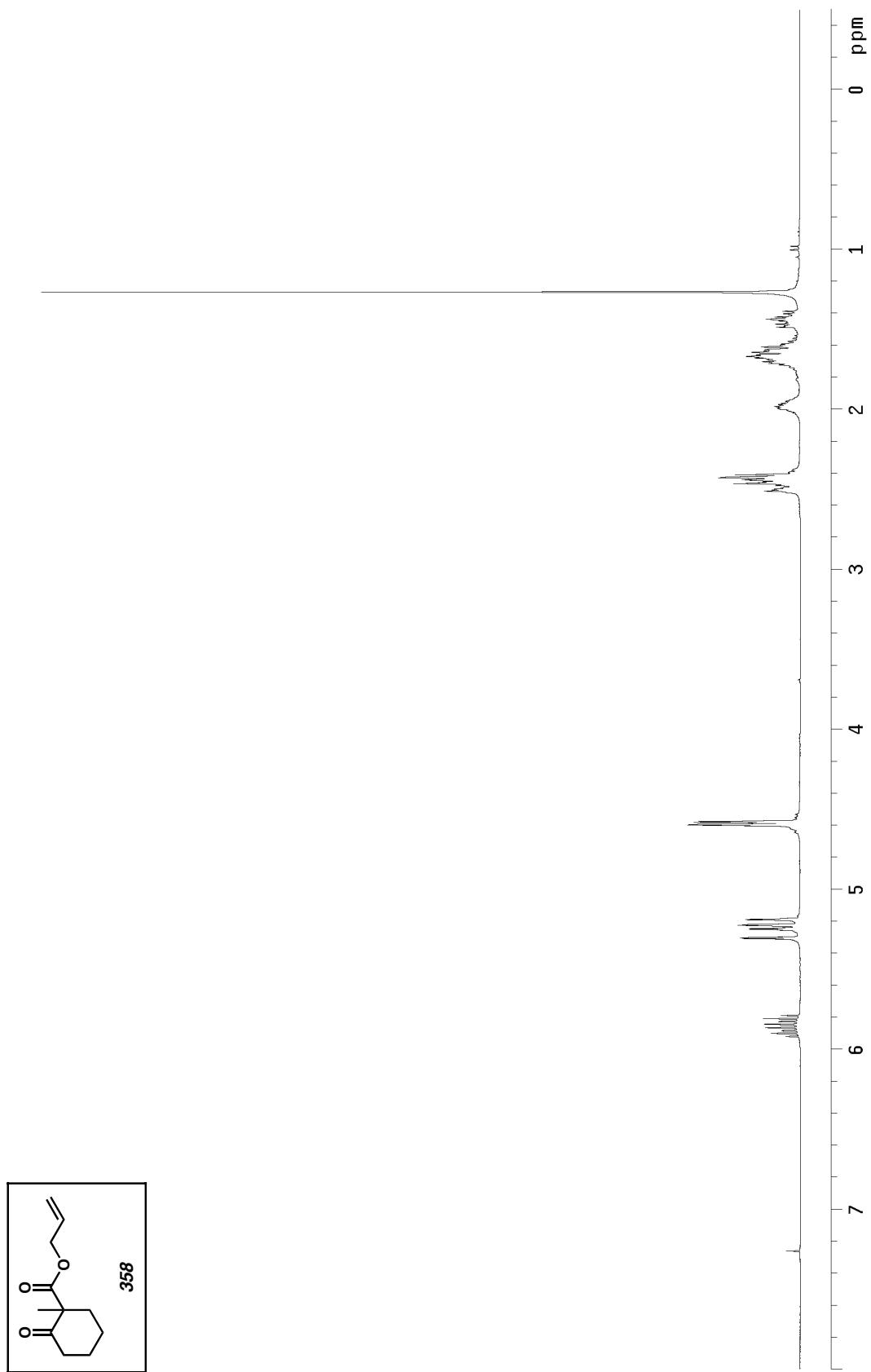


Figure A7.154  $^1\text{H}$  NMR of compound **358** (300 MHz,  $\text{CDCl}_3$ )

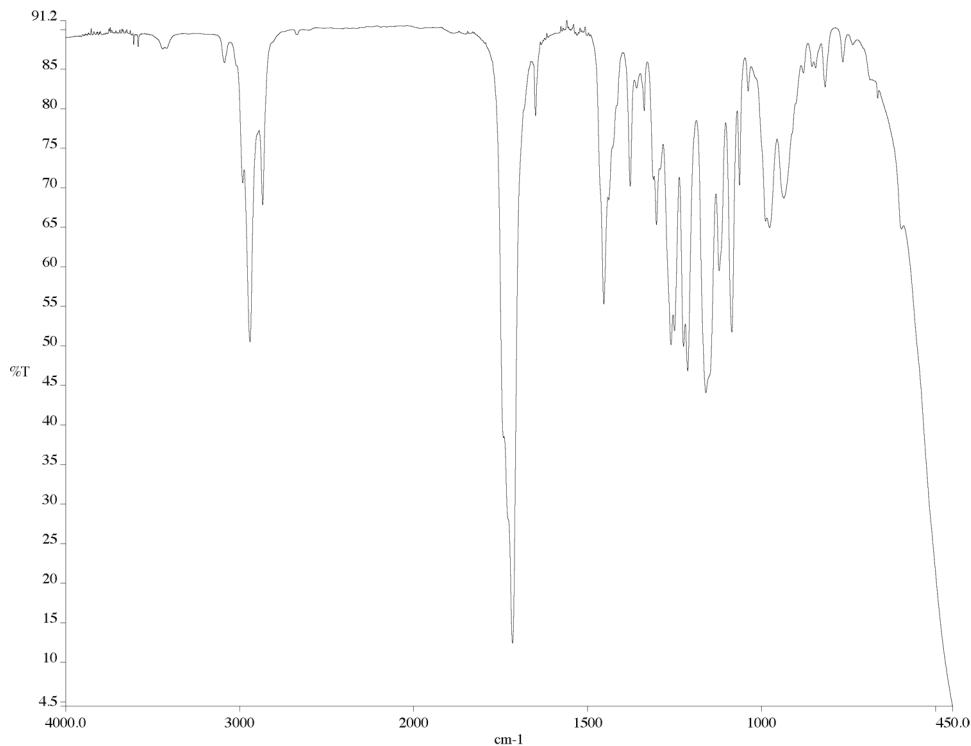


Figure A7.155 IR of compound **358** (NaCl/film)

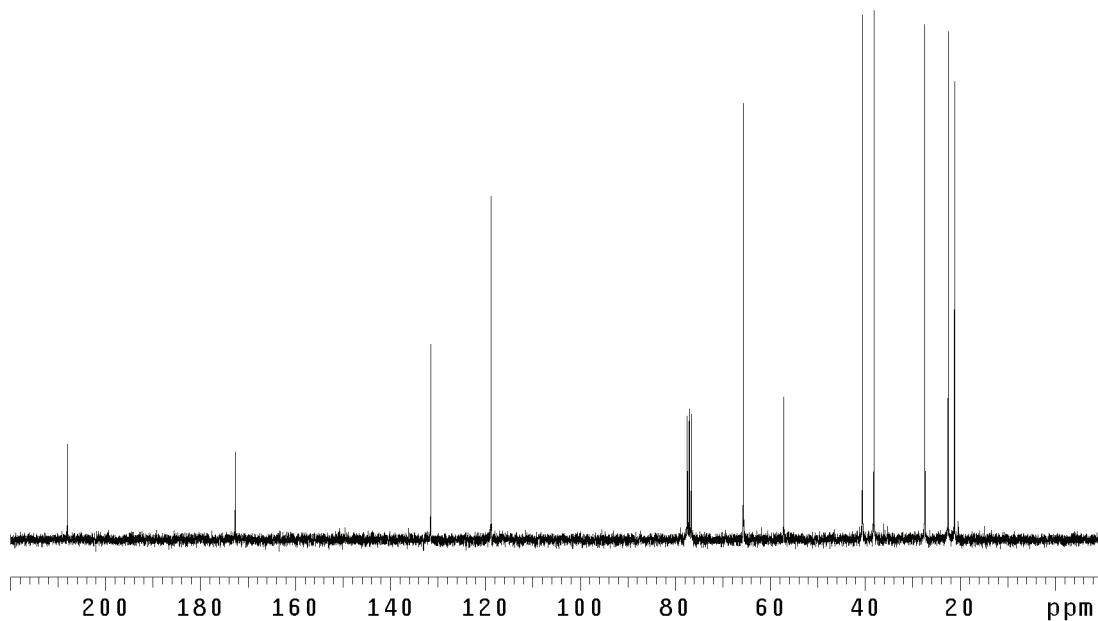


Figure A7.156  $^{13}\text{C}$  NMR of compound **358** (75 MHz,  $\text{CDCl}_3$ )

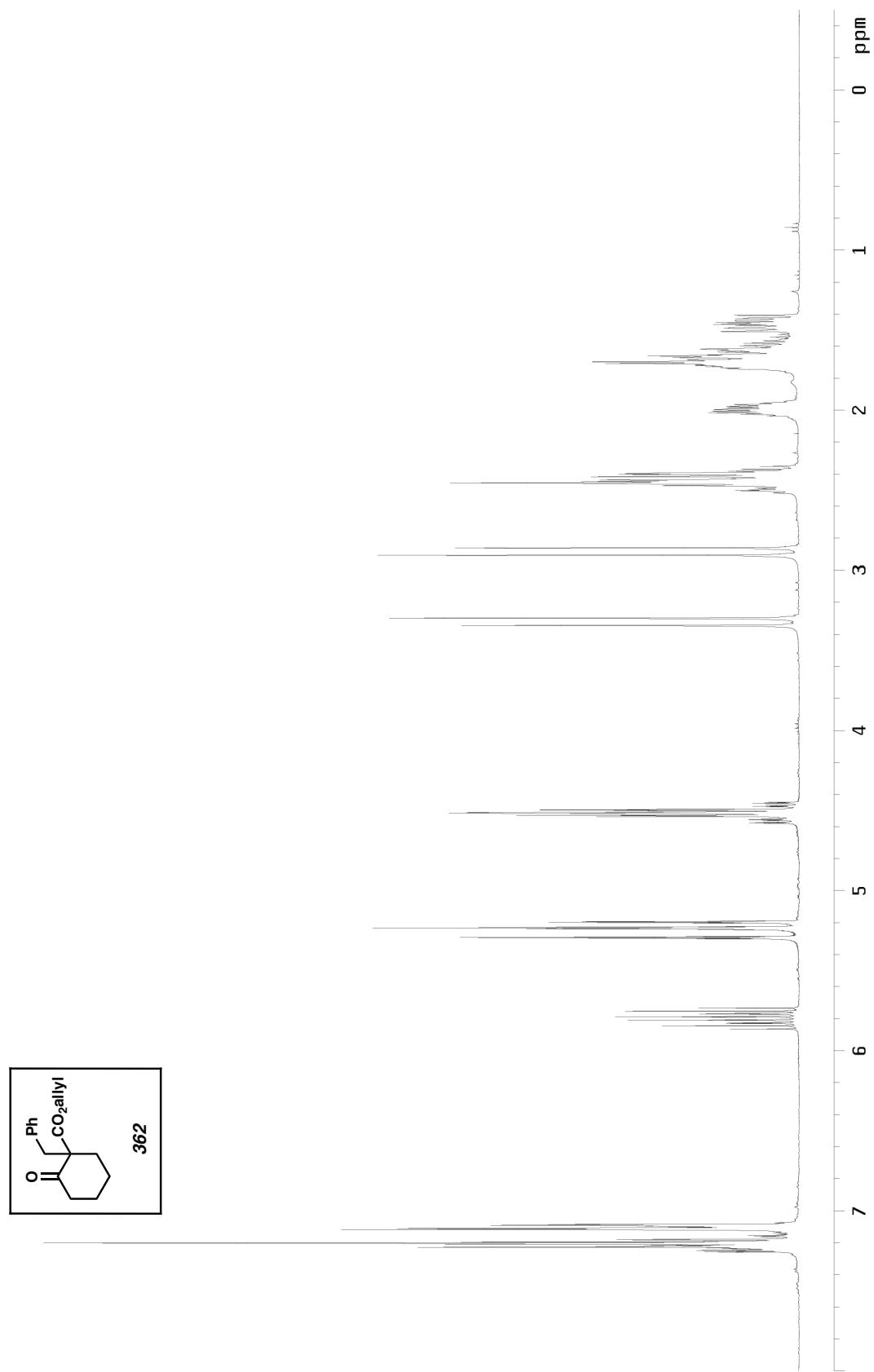


Figure A7.157  $^1\text{H}$  NMR of compound 362 (300 MHz,  $\text{CDCl}_3$ )

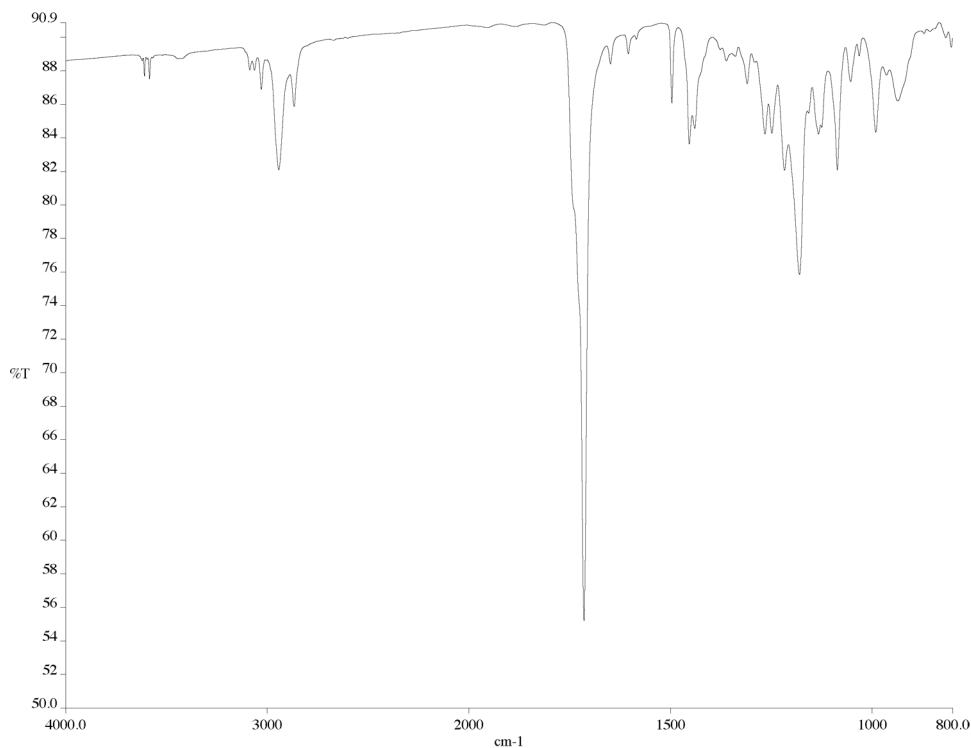


Figure A7.158 IR of compound **362** (NaCl/film)

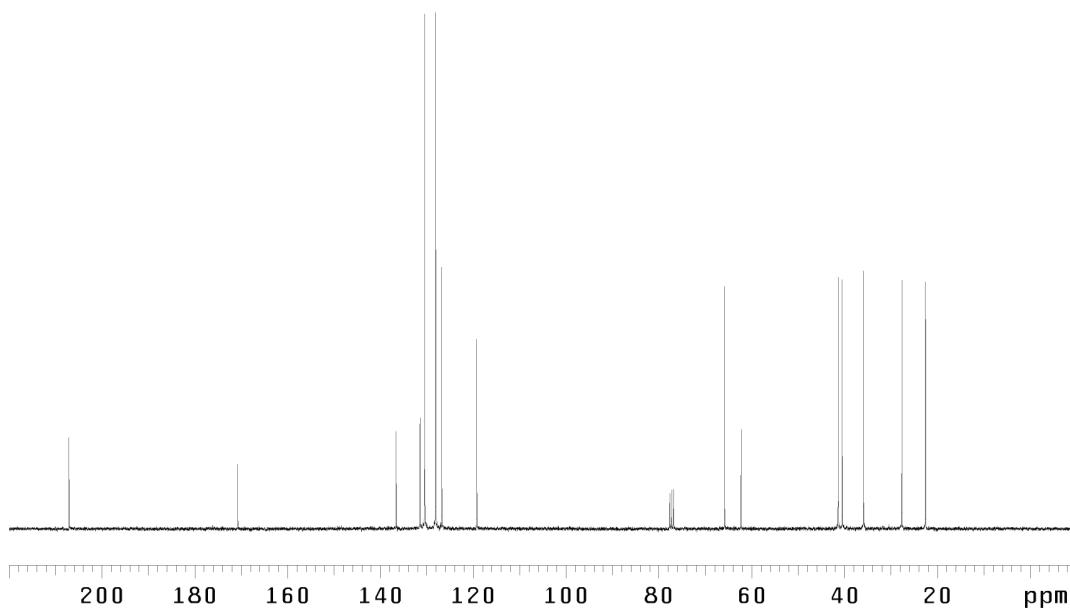


Figure A7.159  $^{13}\text{C}$  NMR of compound **362** (75 MHz,  $\text{CDCl}_3$ )

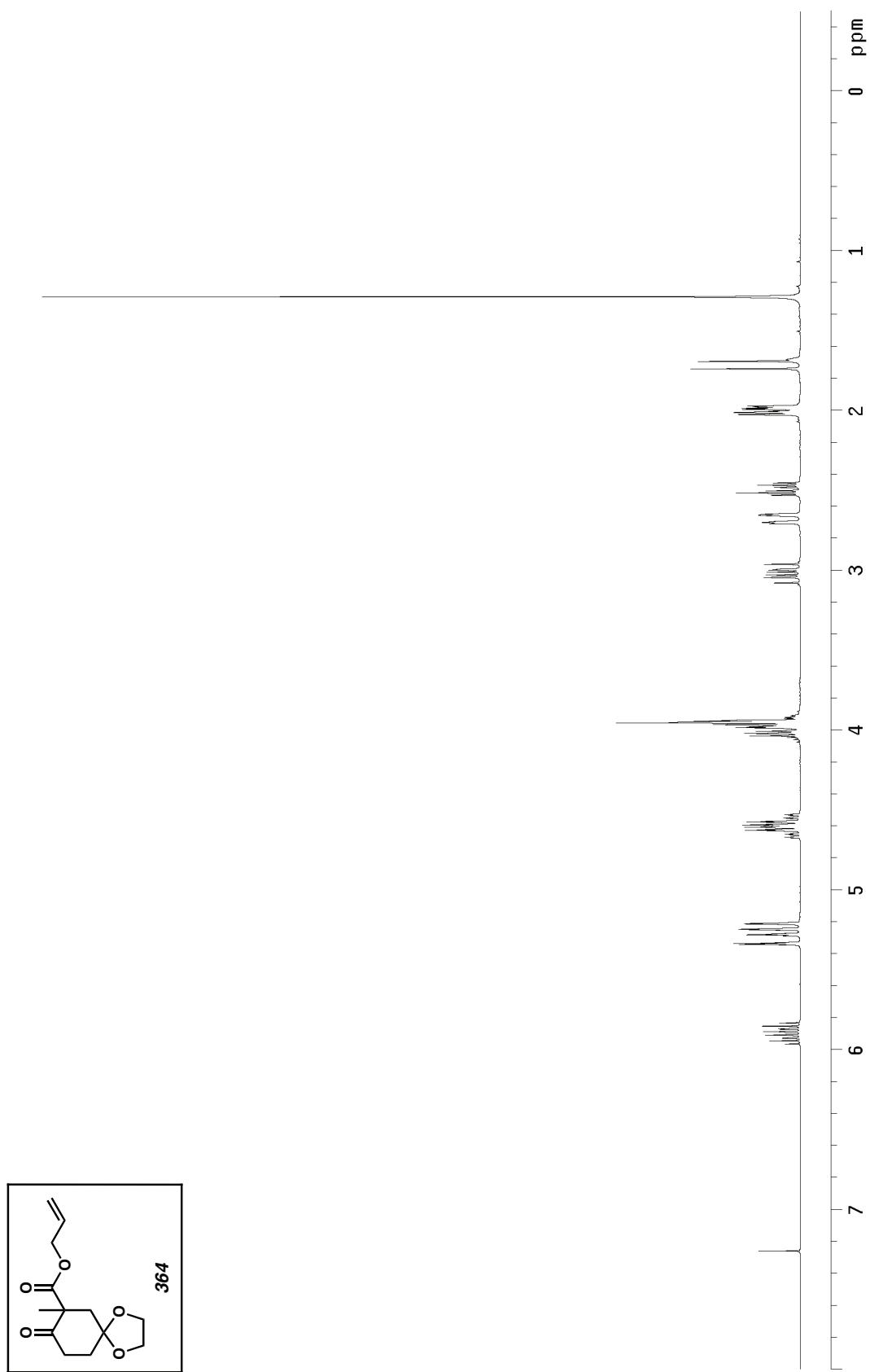


Figure A7.160  $^1\text{H}$  NMR of compound 364 (300 MHz,  $\text{CDCl}_3$ )

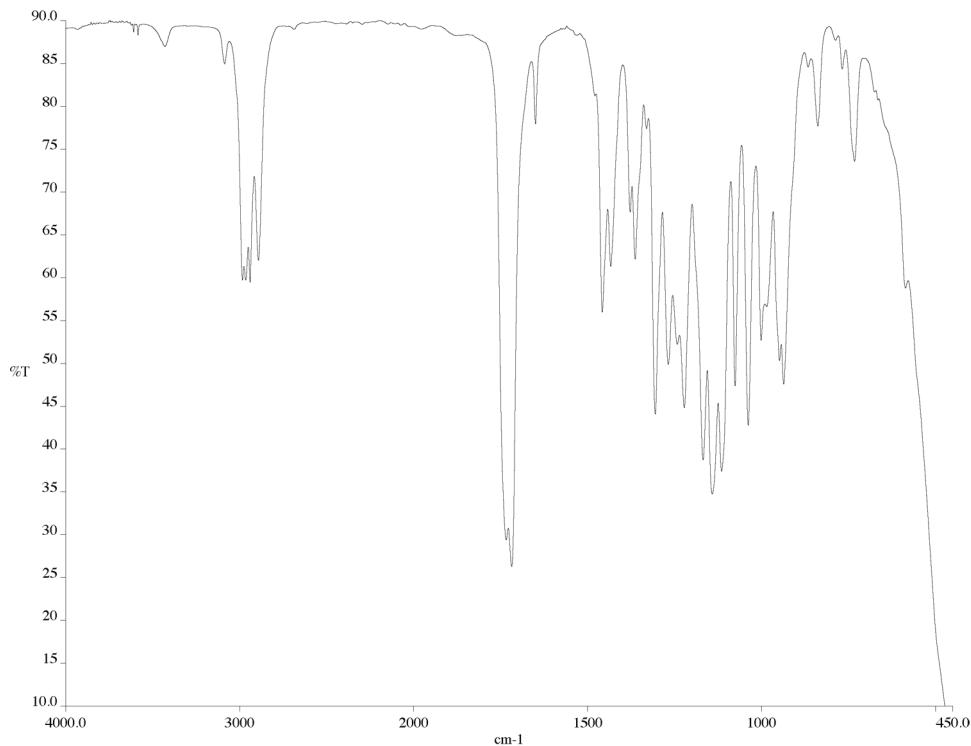


Figure A7.161 IR of compound **364** (NaCl/film)

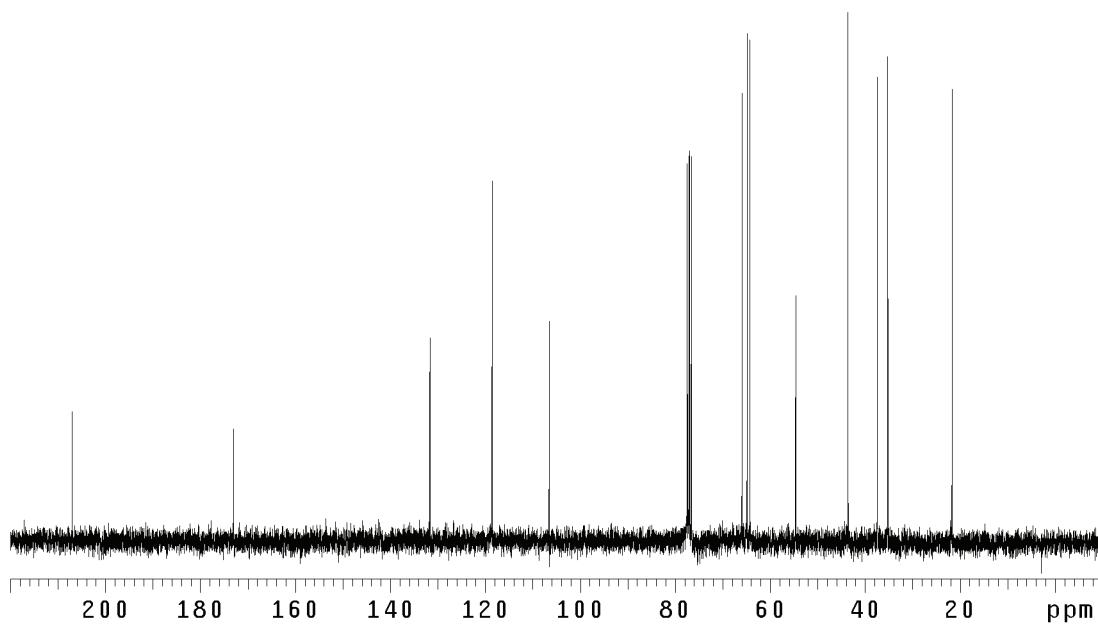


Figure A7.162  $^{13}\text{C}$  NMR of compound **364** (75 MHz,  $\text{CDCl}_3$ )

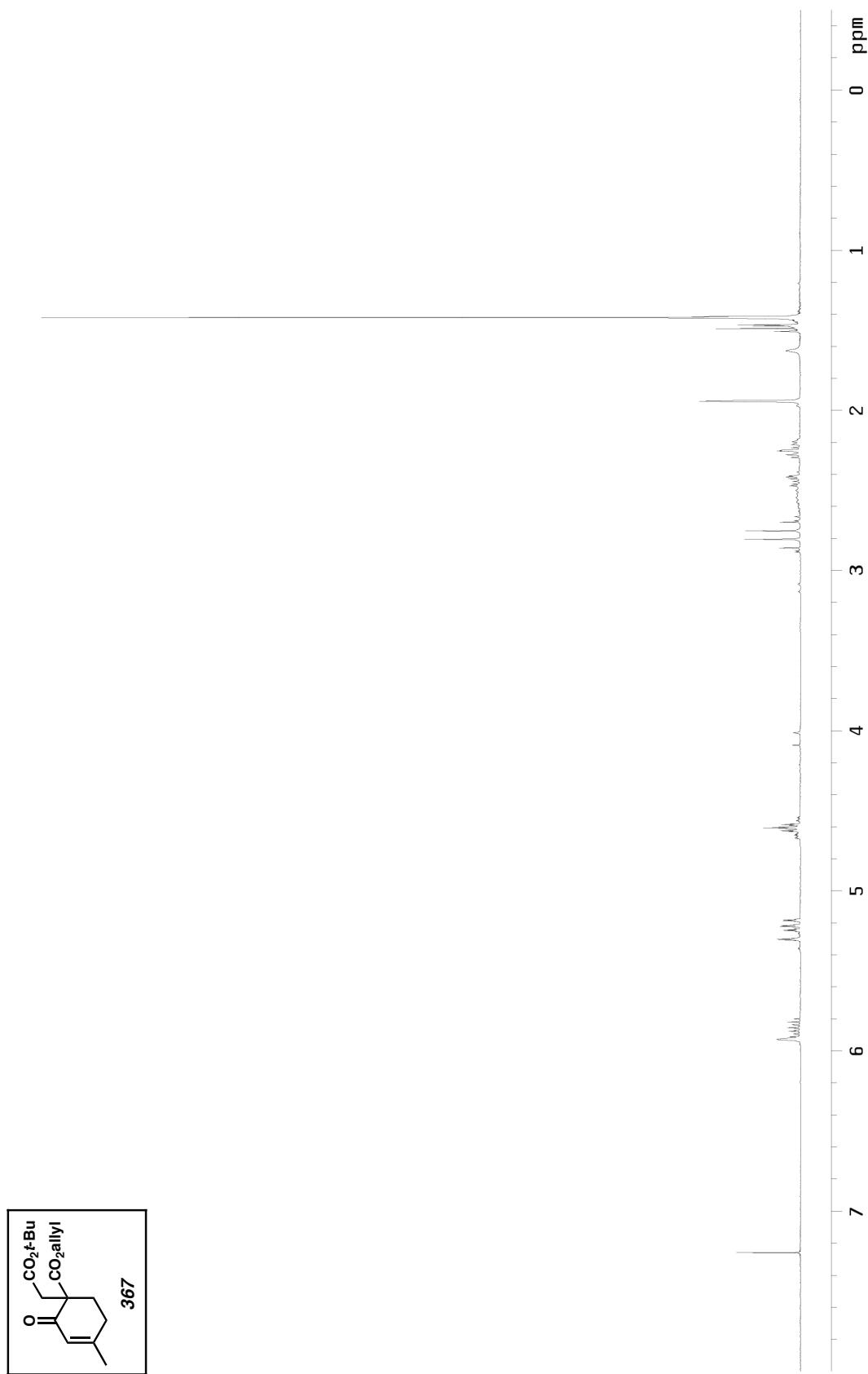


Figure A7.163  $^1\text{H}$  NMR of compound 367 (300 MHz, CDCl<sub>3</sub>)

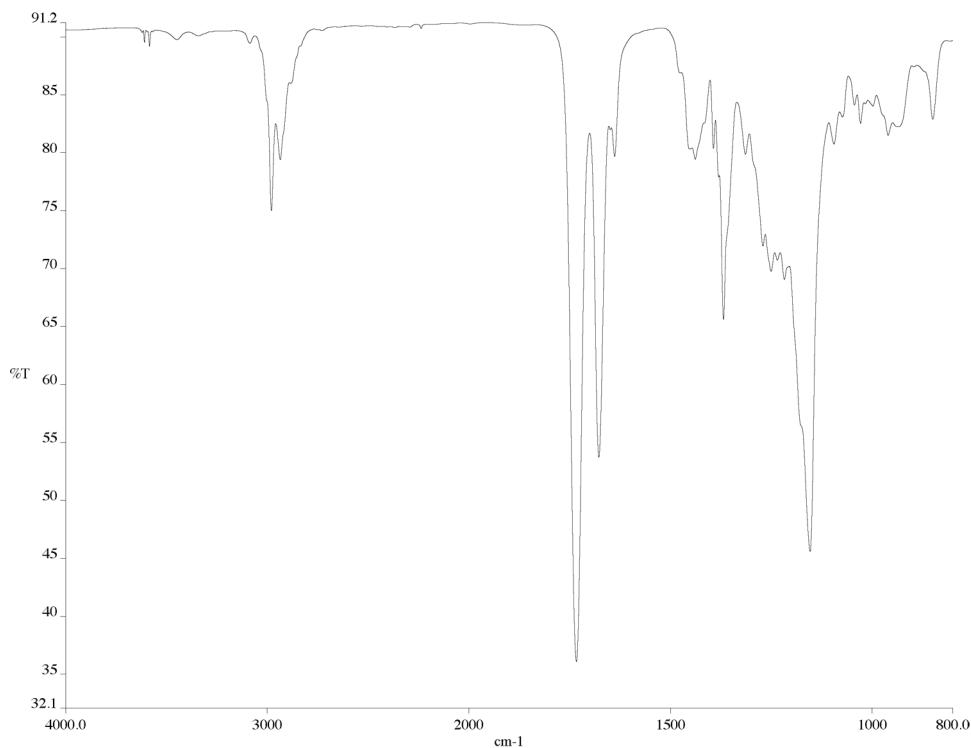


Figure A7.164 IR of compound **367** (NaCl/film)

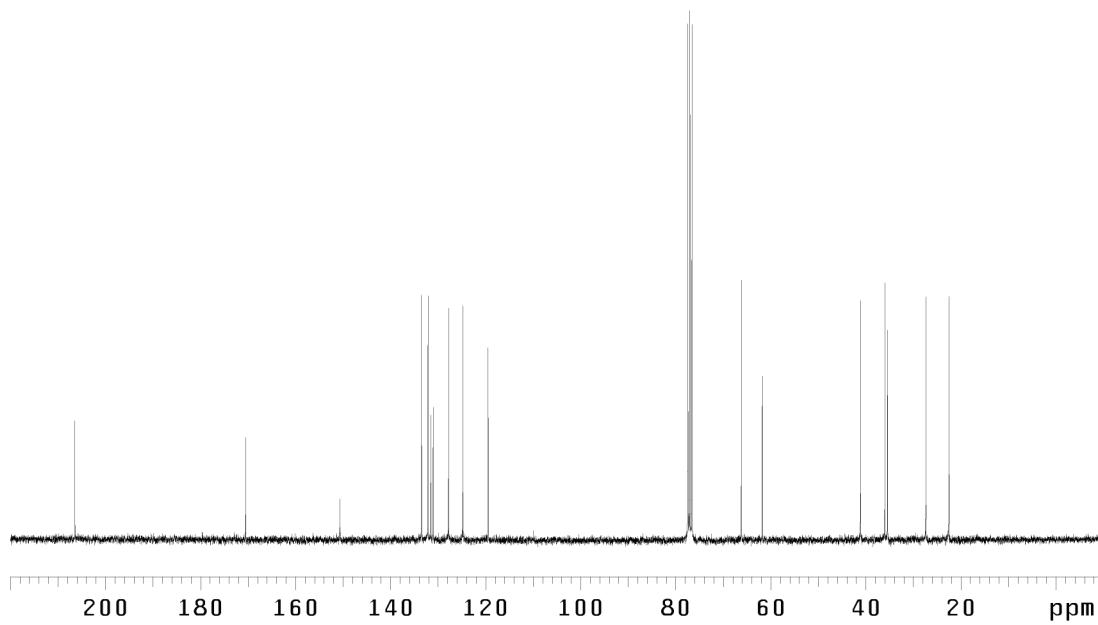


Figure A7.165 <sup>13</sup>C NMR of compound **367** (75 MHz, CDCl<sub>3</sub>)

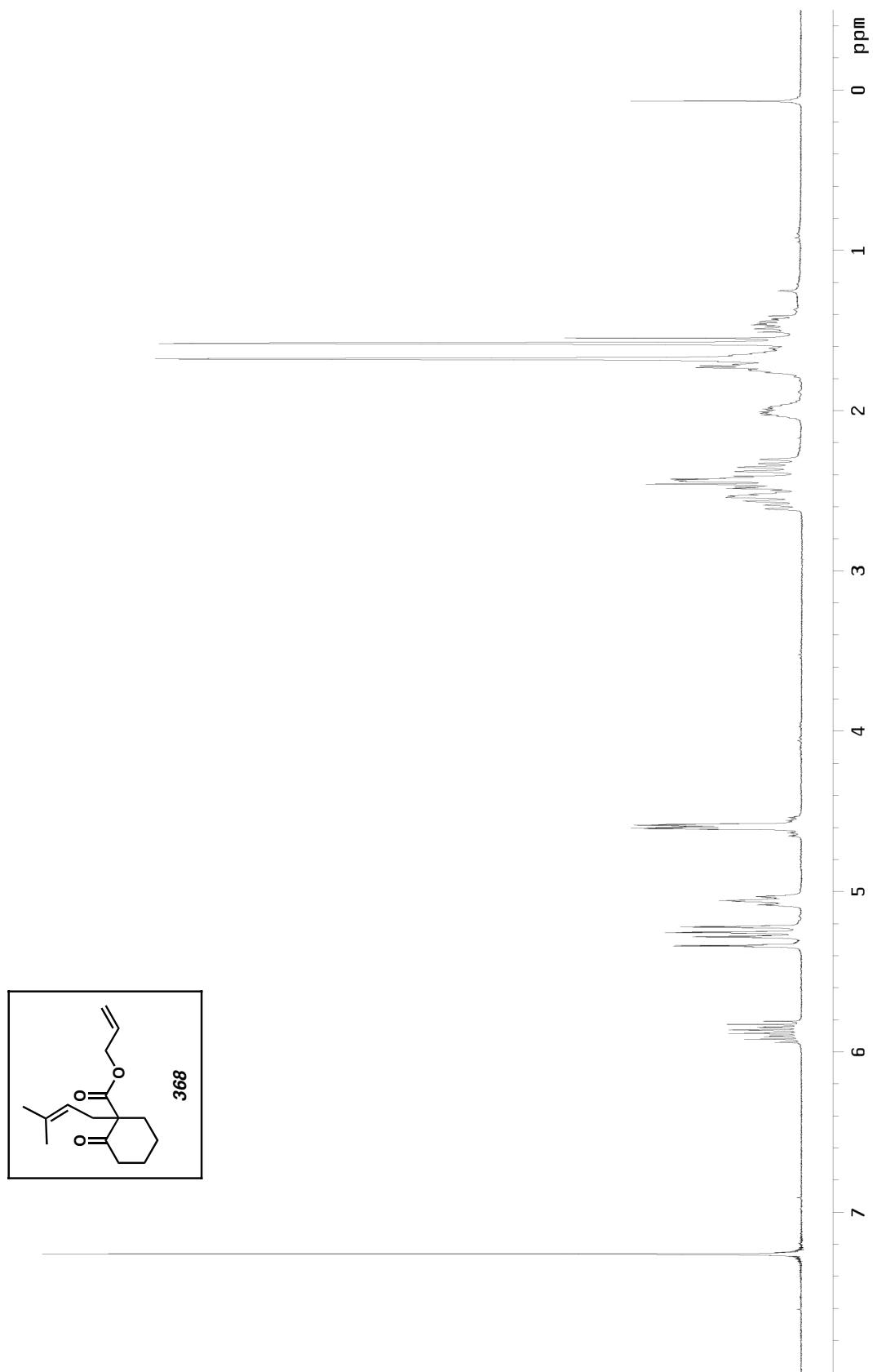


Figure A7.166  $^1\text{H}$  NMR of compound **368** (300 MHz,  $\text{CDCl}_3$ )

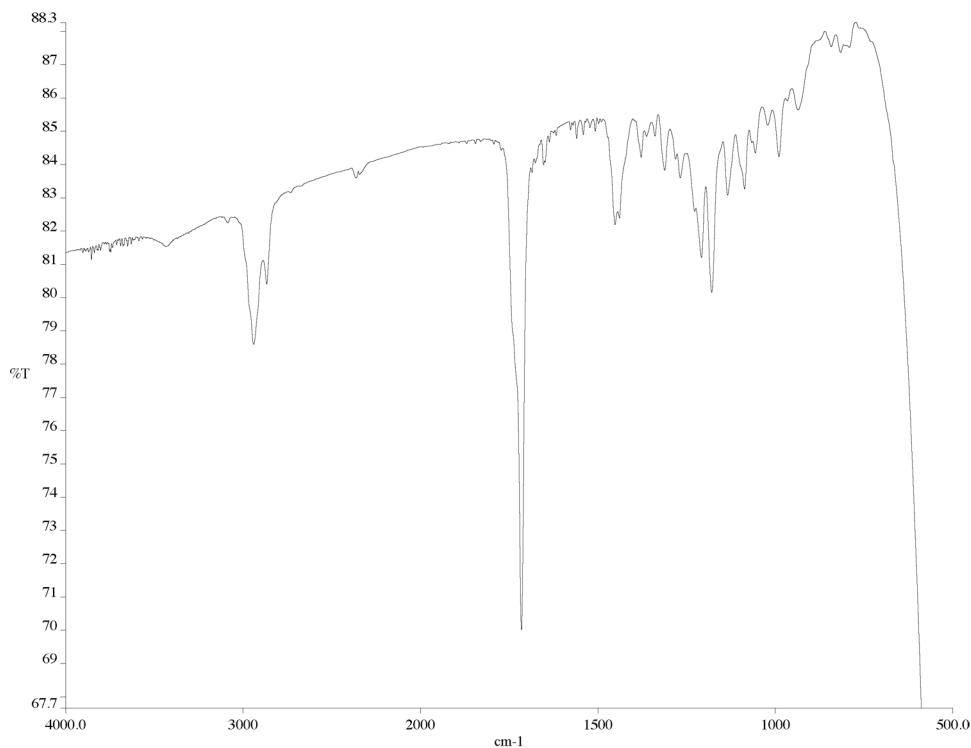


Figure A7.167 IR of compound **368** (NaCl/film)

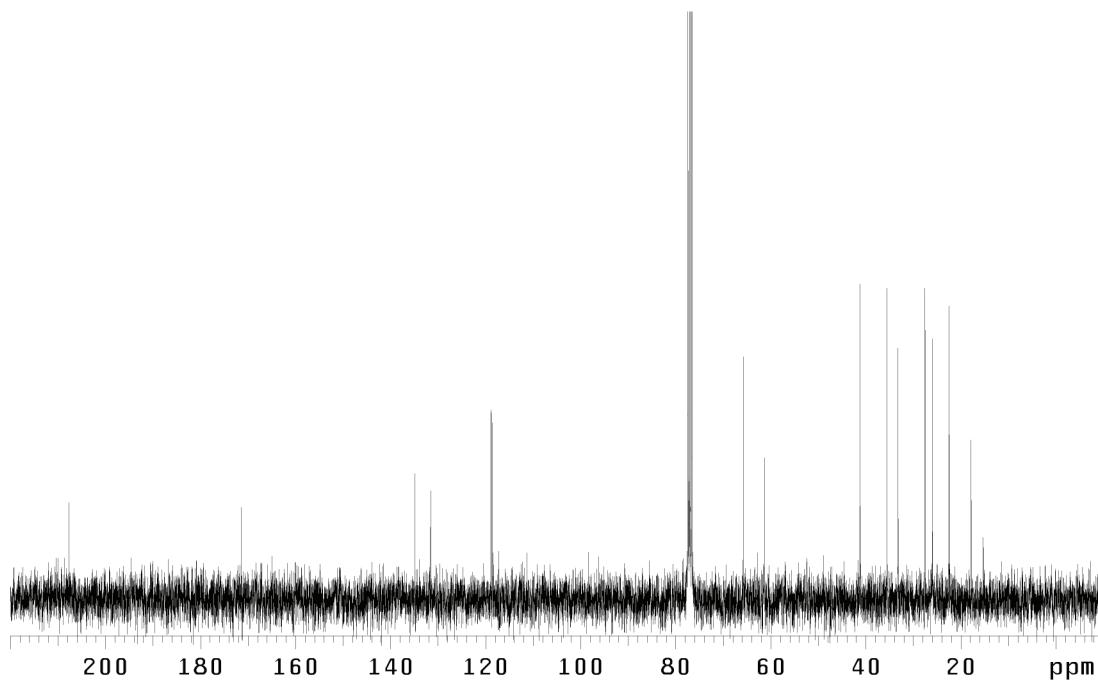


Figure A7.168 <sup>13</sup>C NMR of compound **368** (75 MHz, CDCl<sub>3</sub>)

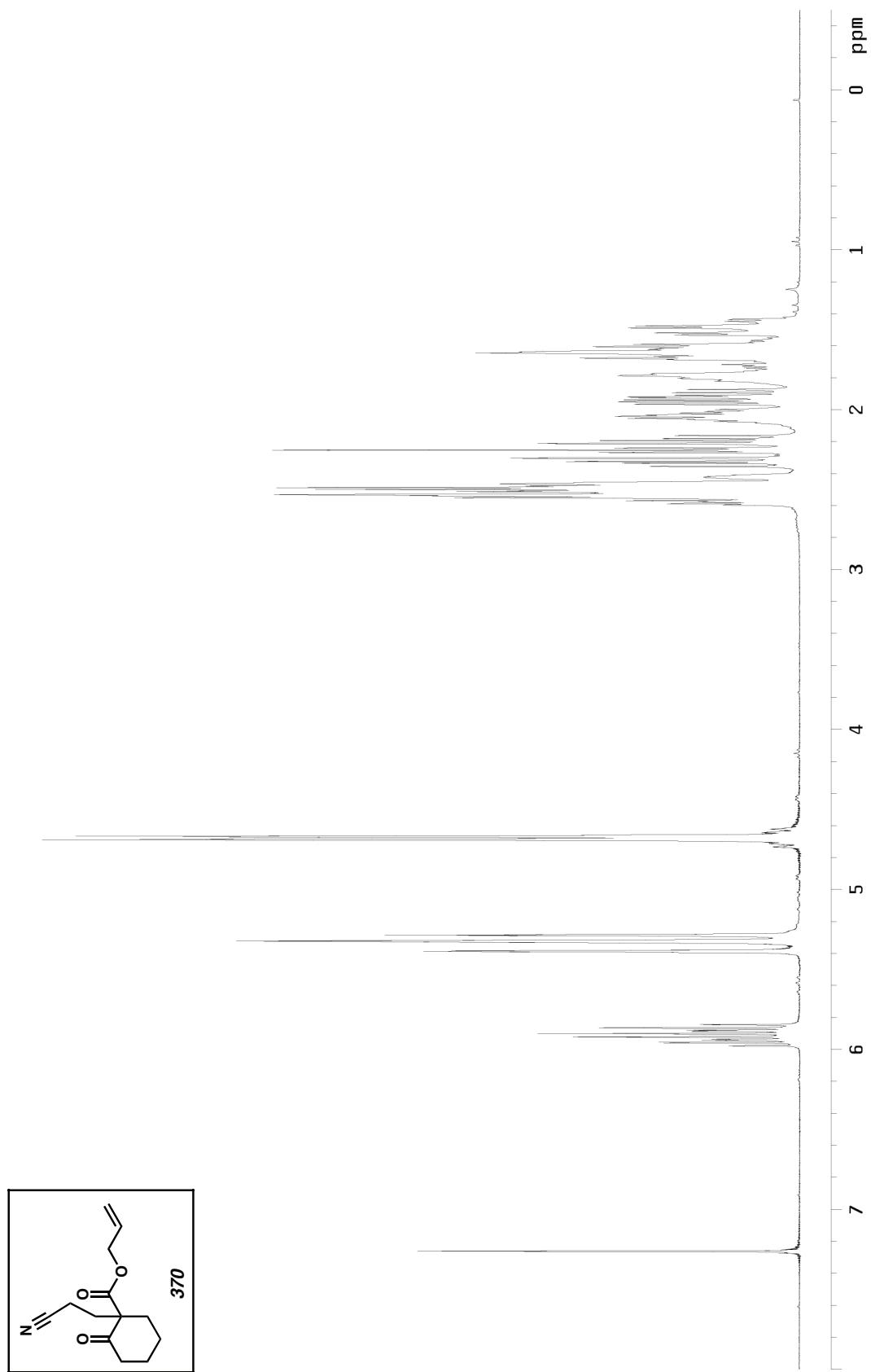


Figure A7.169  $^1\text{H}$  NMR of compound **370** (300 MHz,  $\text{CDCl}_3$ )

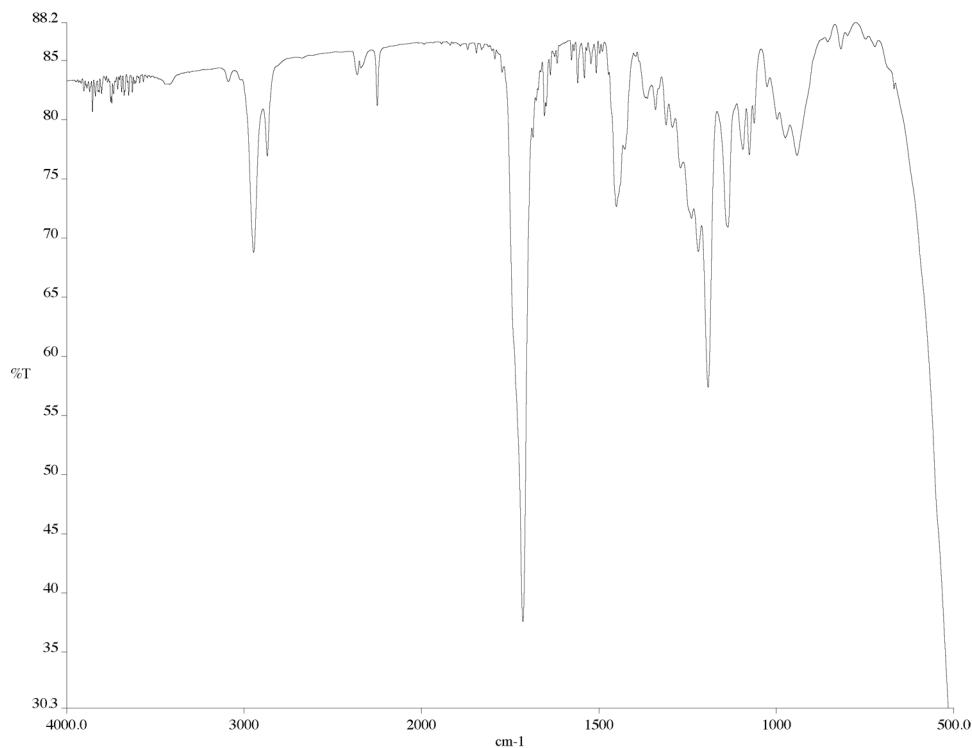


Figure A7.170 IR of compound **370** (NaCl/film)

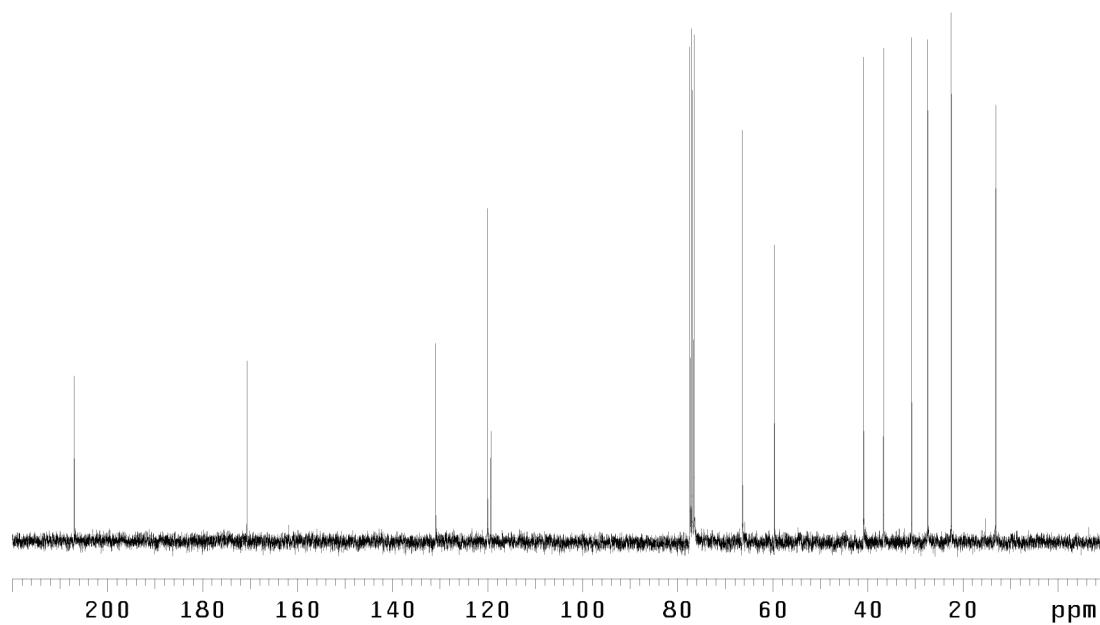


Figure A7.171 <sup>13</sup>C NMR of compound **370** (75 MHz, CDCl<sub>3</sub>)

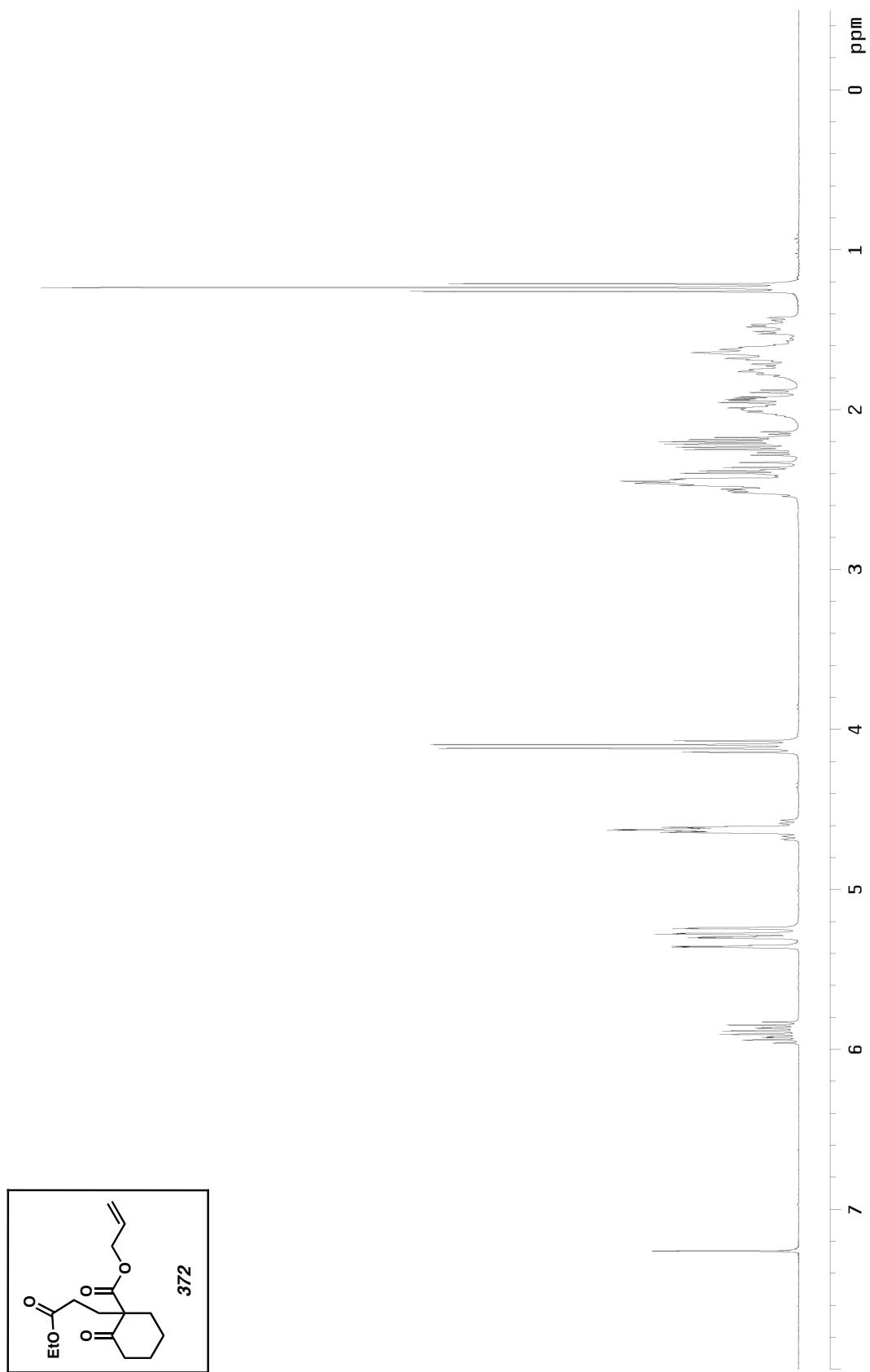


Figure A7.172  $^1\text{H}$  NMR of compound **372** (300 MHz,  $\text{CDCl}_3$ )

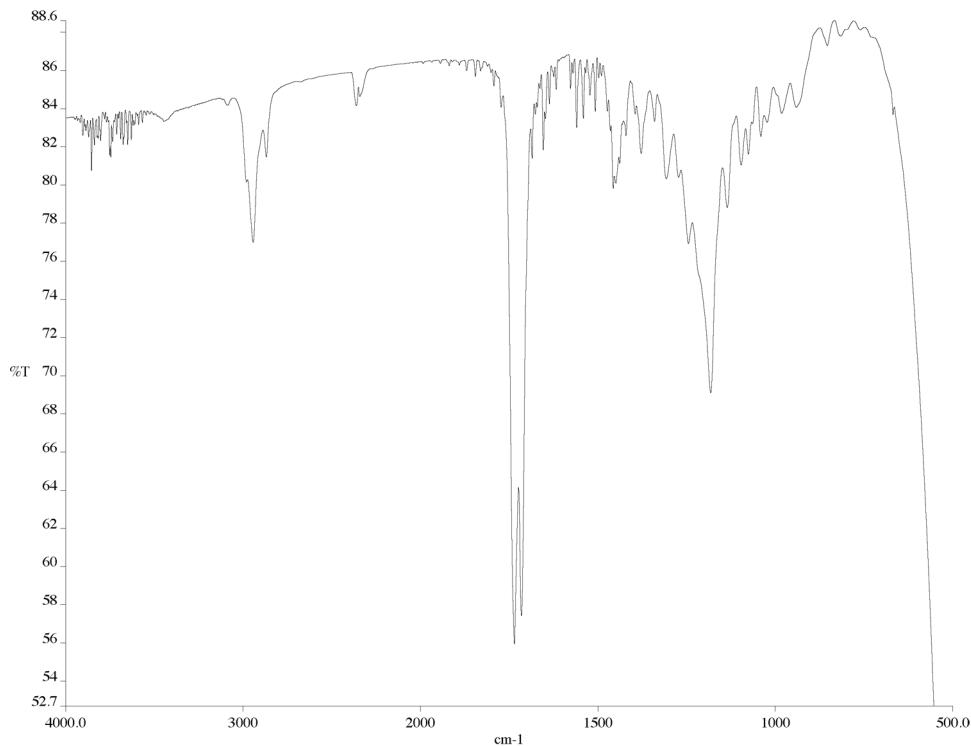


Figure A7.173 IR of compound **372** (NaCl/film)

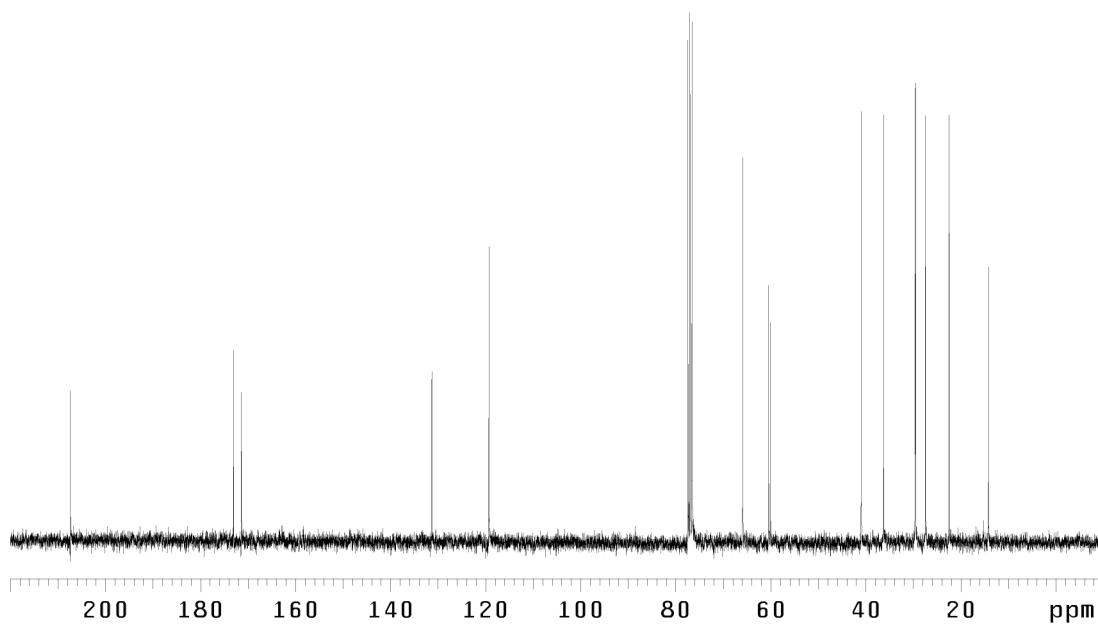


Figure A7.174 <sup>13</sup>C NMR of compound **372** (75 MHz, CDCl<sub>3</sub>)

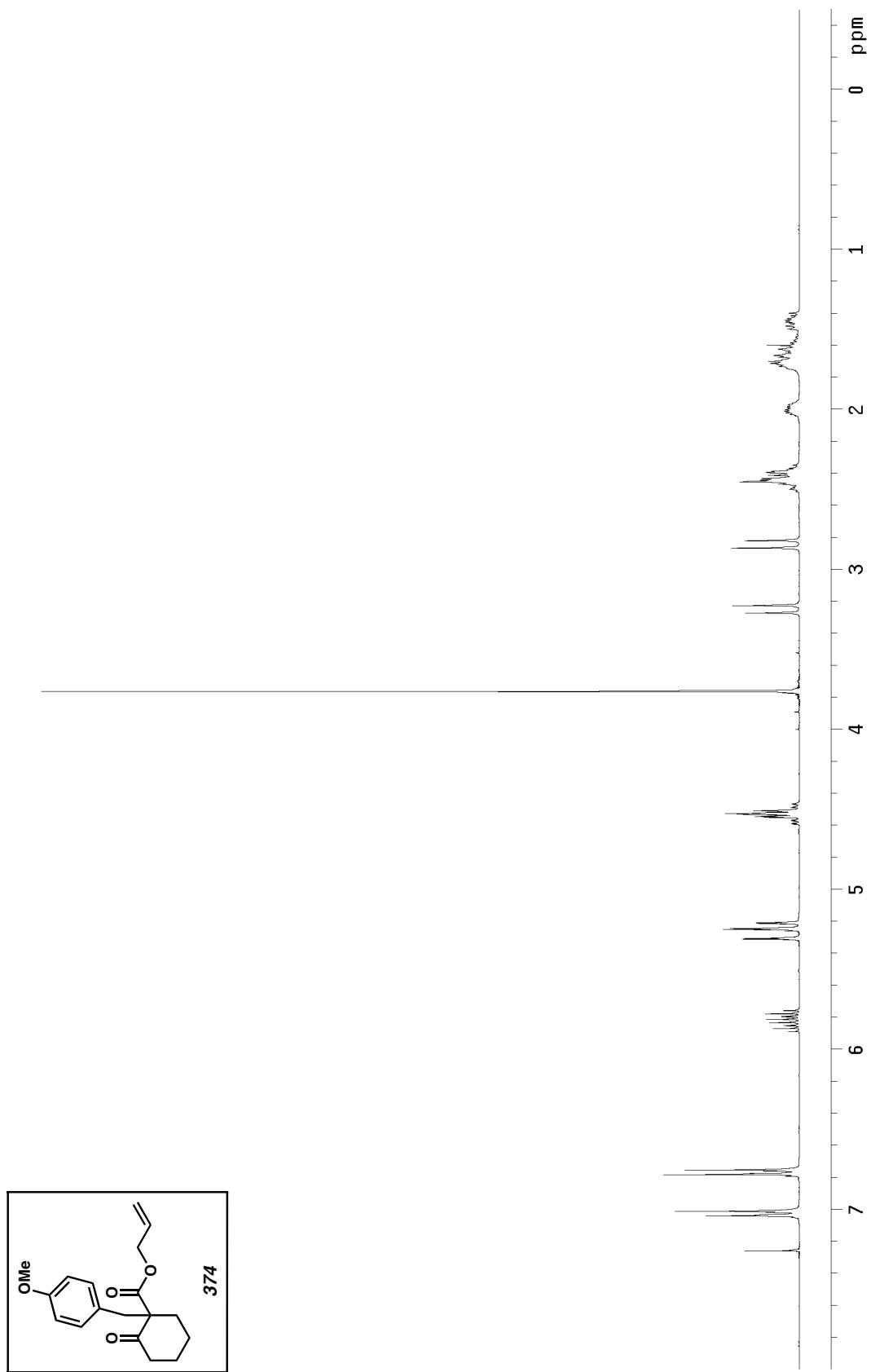


Figure A7.175  $^1\text{H}$  NMR of compound 374 (300 MHz,  $\text{CDCl}_3$ )

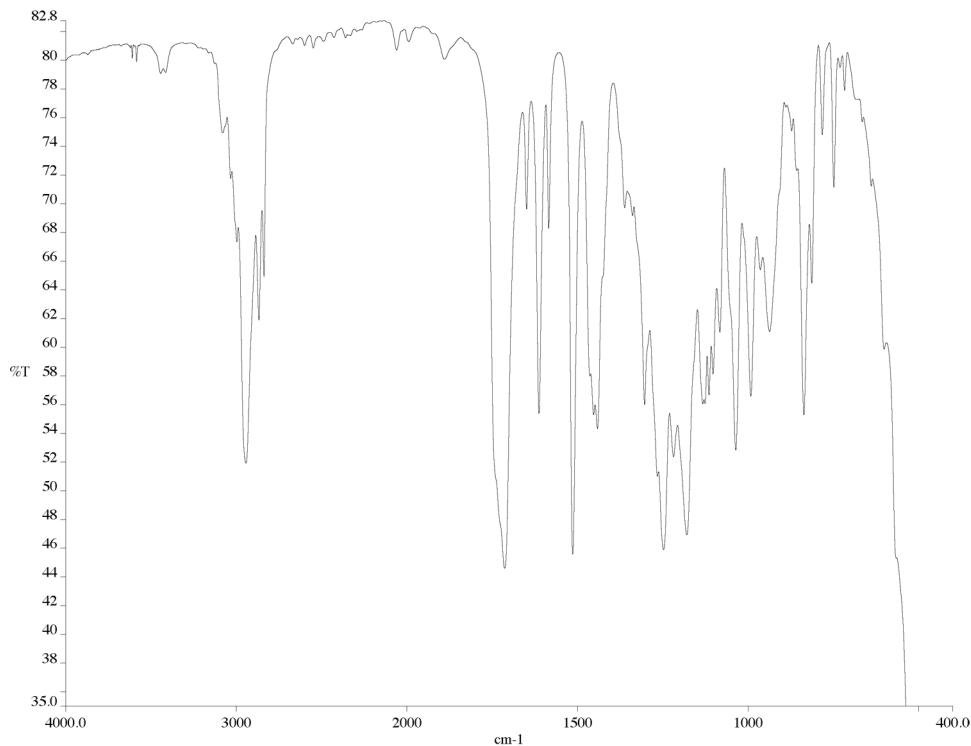


Figure A7.176 IR of compound **374** (NaCl/film)

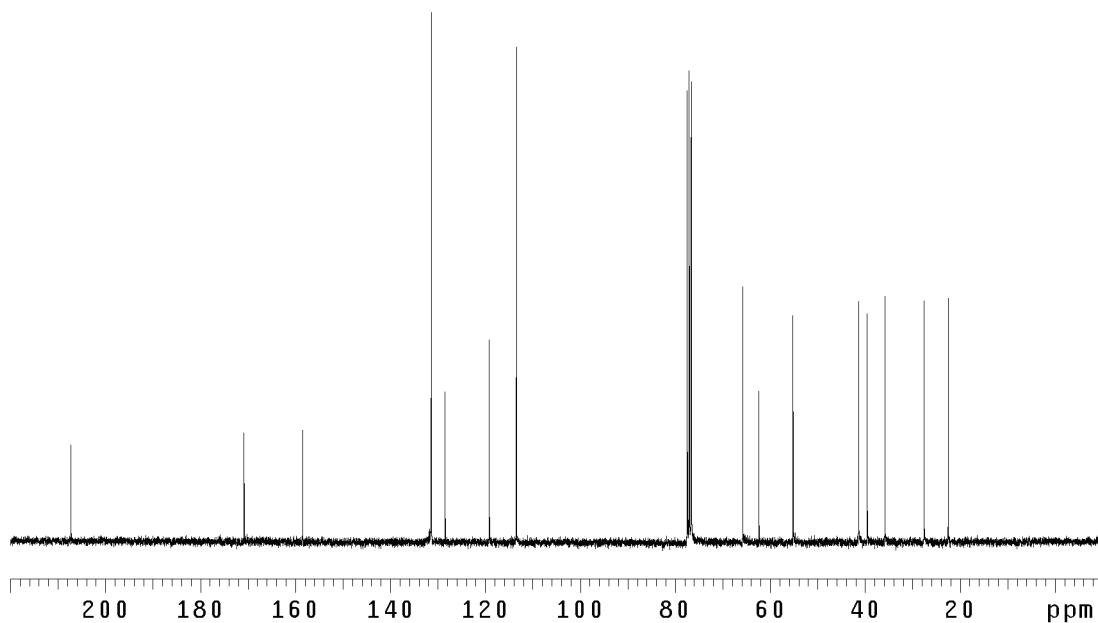


Figure A7.177 <sup>13</sup>C NMR of compound **374** (75 MHz, CDCl<sub>3</sub>)

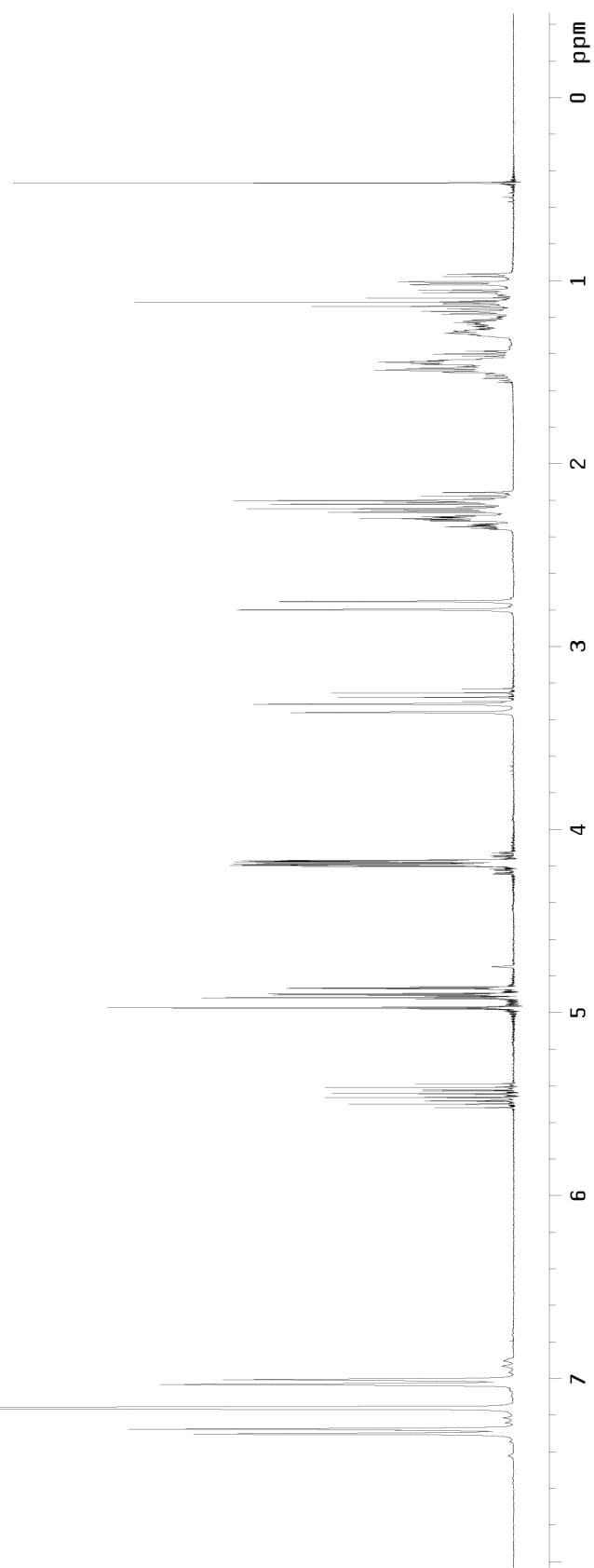
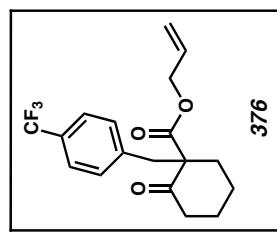


Figure A7.178 <sup>1</sup>H NMR of compound 376 (300 MHz, CDCl<sub>3</sub>)

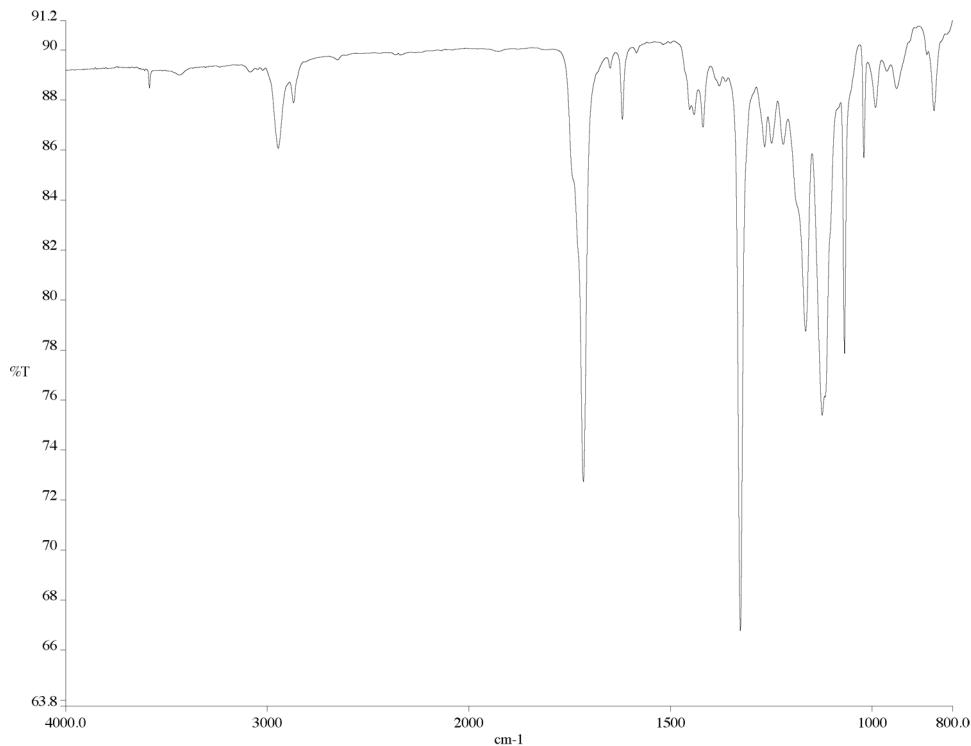


Figure A7.179 IR of compound **376** (NaCl/film)

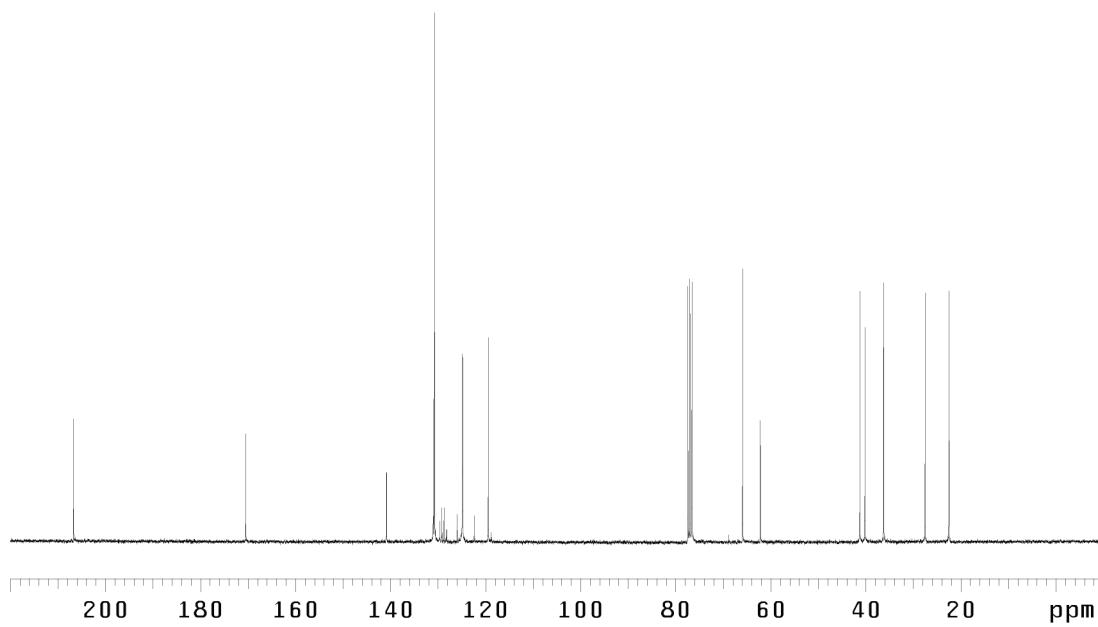


Figure A7.180  $^{13}\text{C}$  NMR of compound **376** (75 MHz,  $\text{CDCl}_3$ )

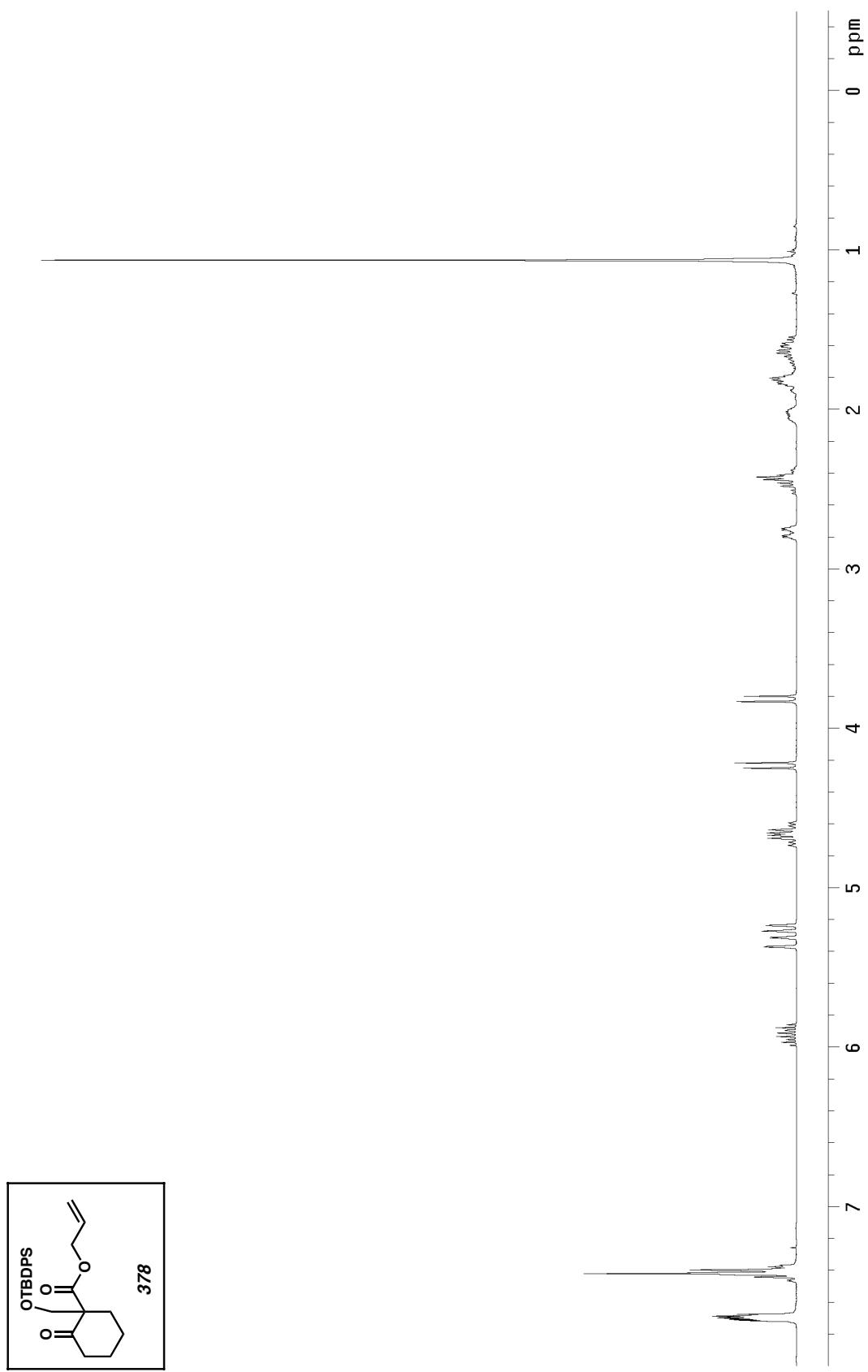


Figure A7.181  $^1\text{H}$  NMR of compound **378** (300 MHz,  $\text{CDCl}_3$ )

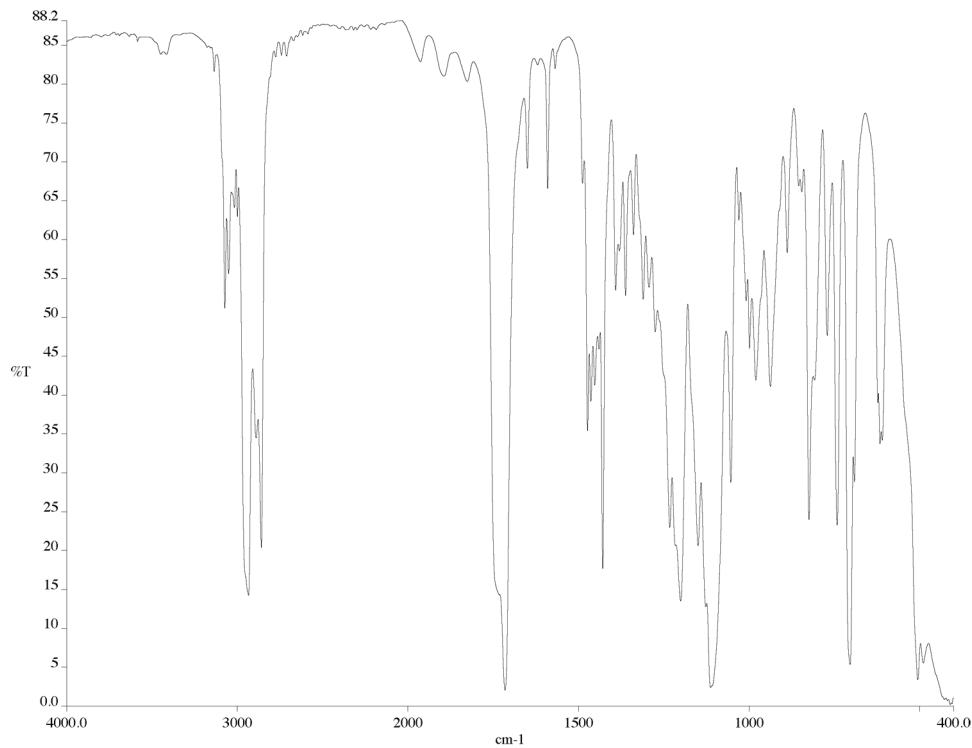


Figure A7.182 IR of compound **378** (NaCl/film)

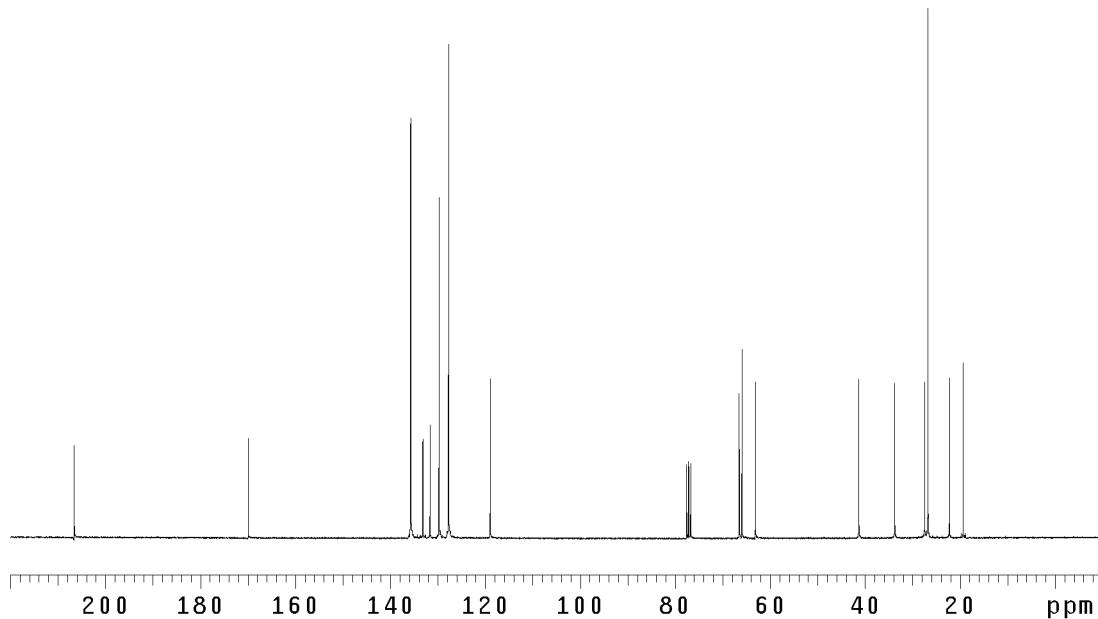


Figure A7.183 <sup>13</sup>C NMR of compound **378** (75 MHz, CDCl<sub>3</sub>)

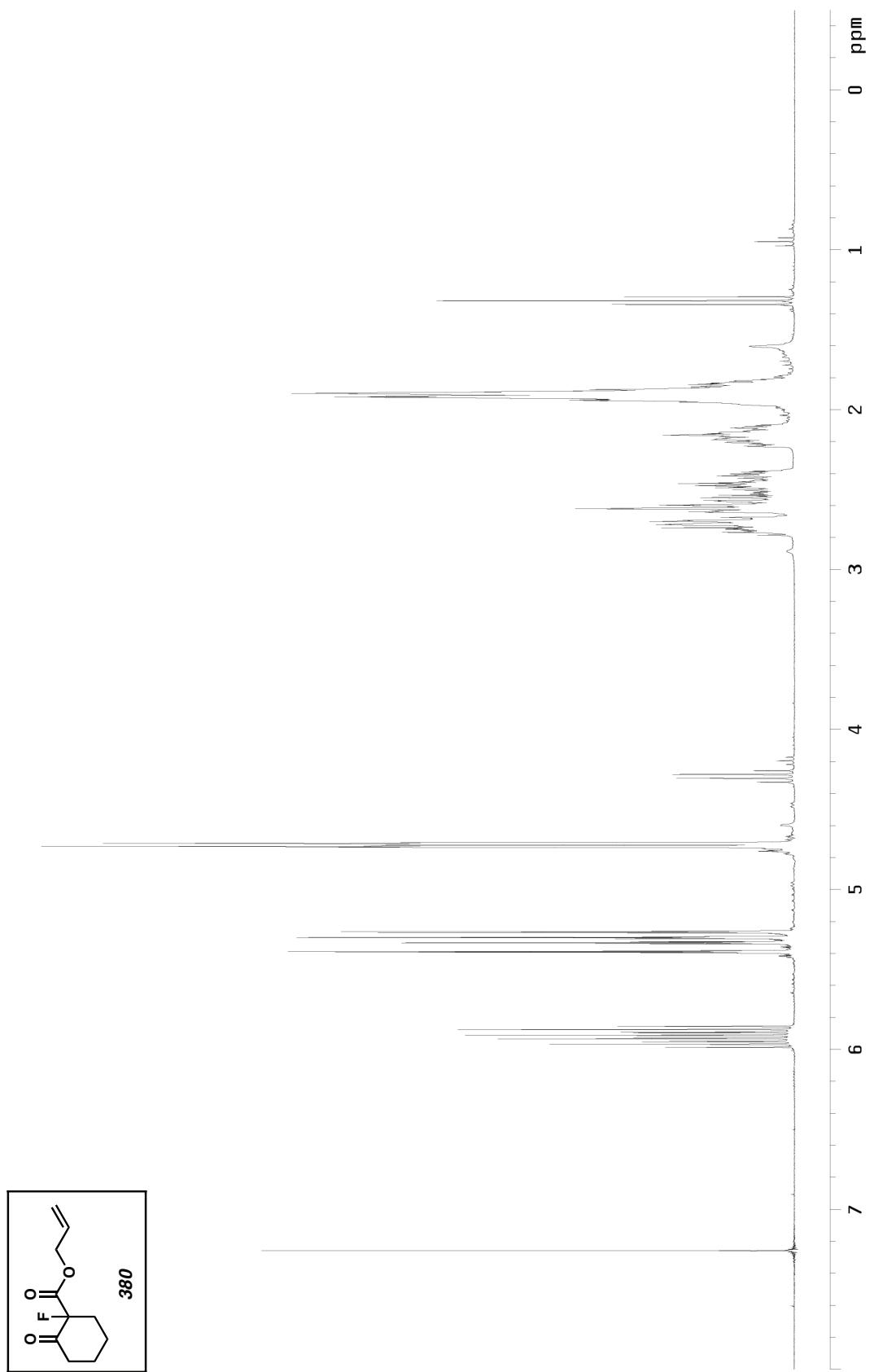


Figure A7.184 <sup>1</sup>H NMR of compound 380 (300 MHz, CDCl<sub>3</sub>)

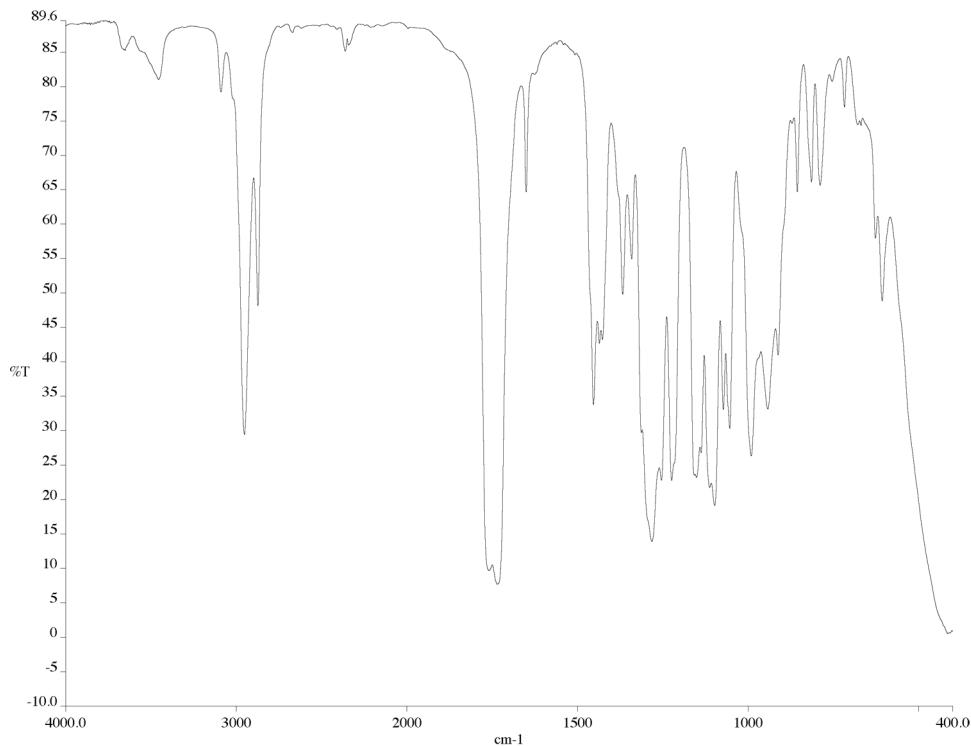


Figure A7.185 IR of compound **380** (NaCl/film)

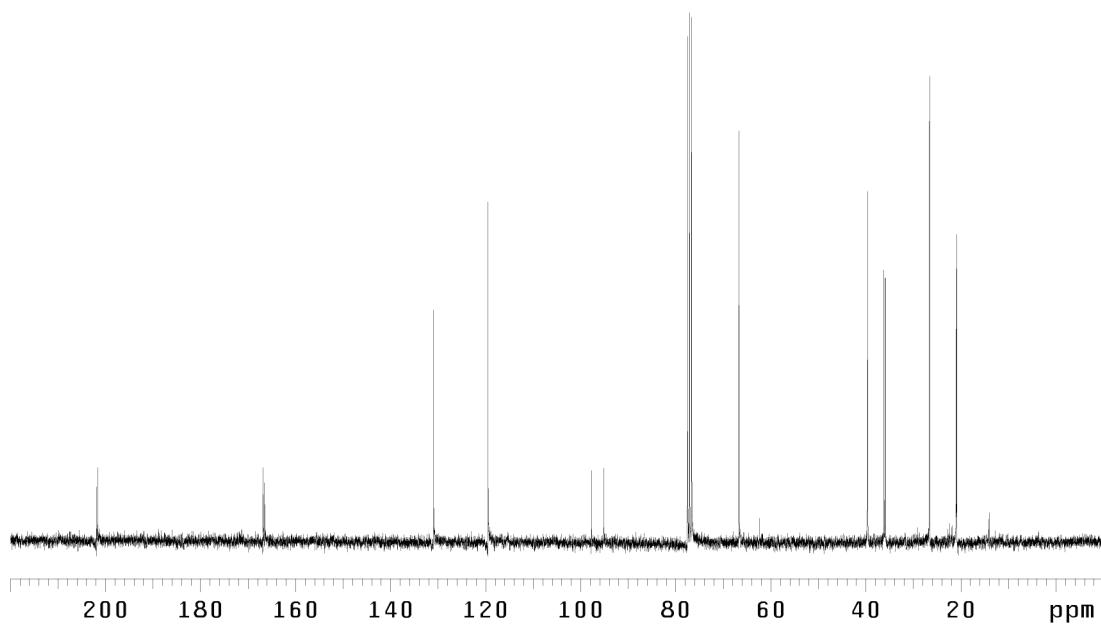


Figure A7.186  $^{13}\text{C}$  NMR of compound **380** (75 MHz,  $\text{CDCl}_3$ )

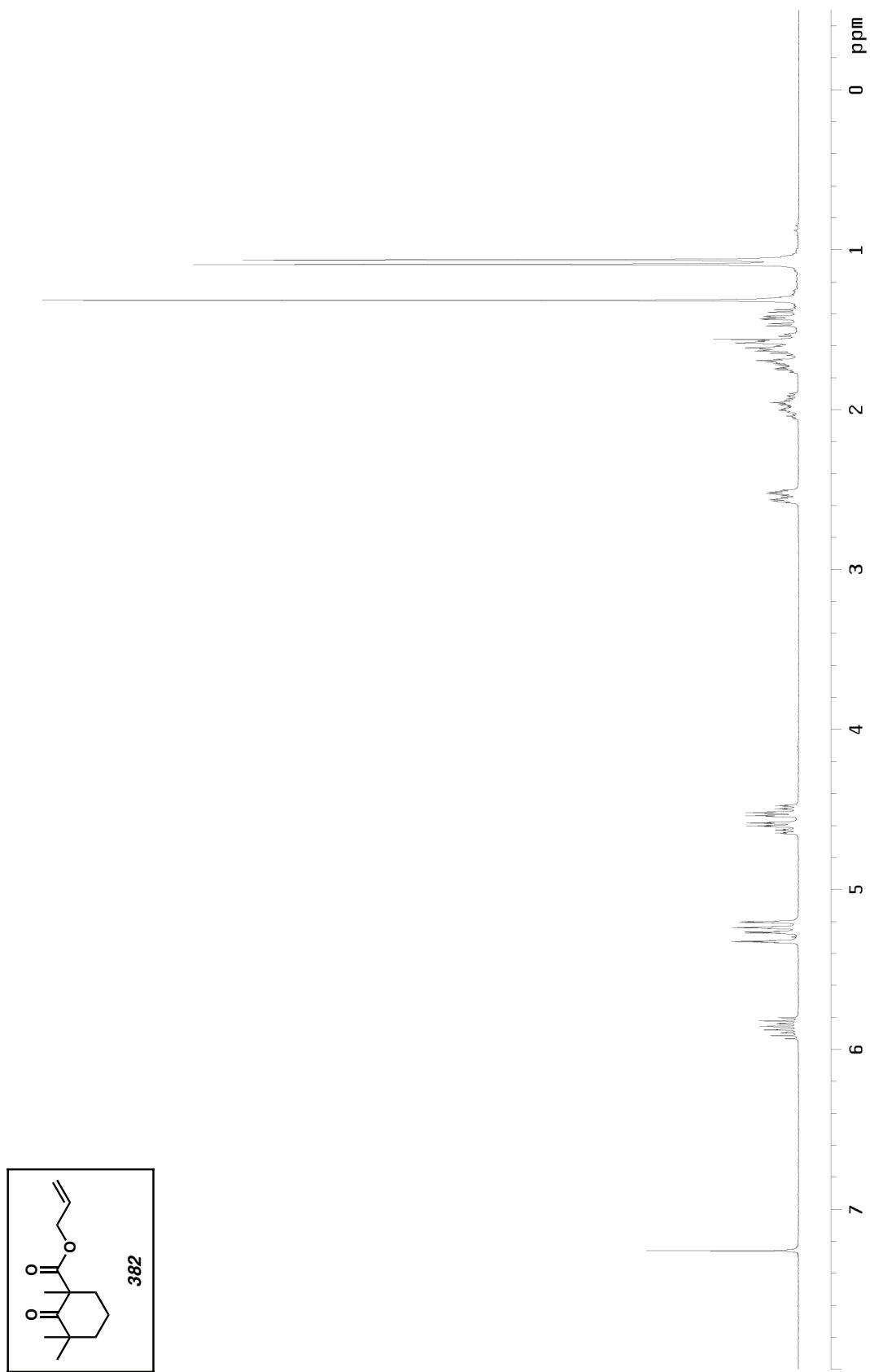


Figure A7.187  $^1\text{H}$  NMR of compound 382 (300 MHz, CDCl<sub>3</sub>)

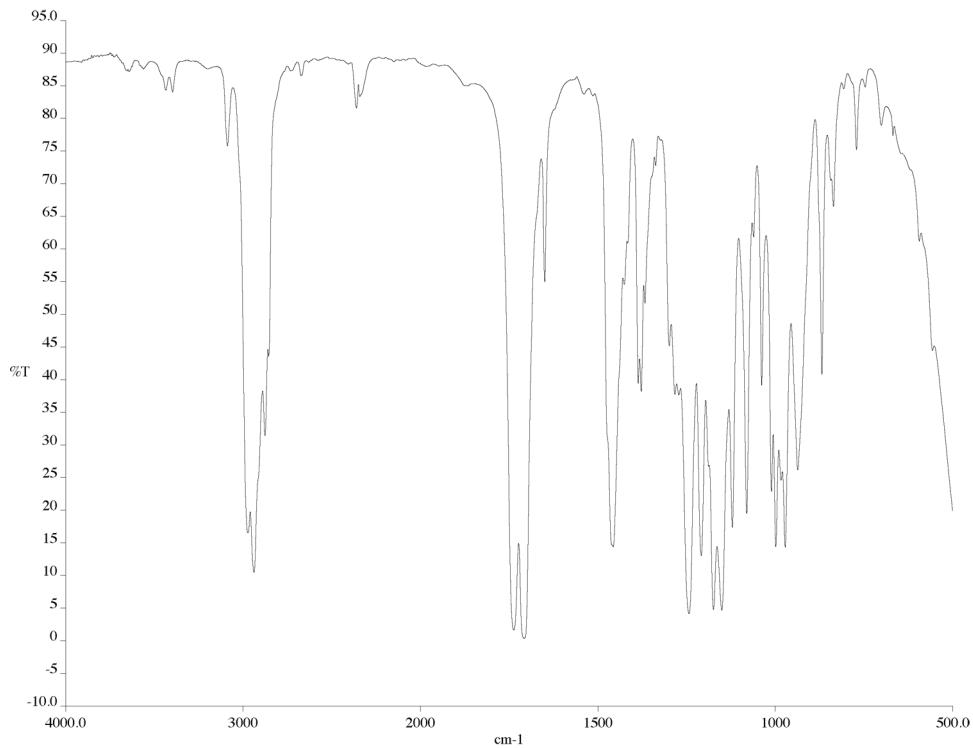


Figure A7.188 IR of compound **282** (NaCl/film)

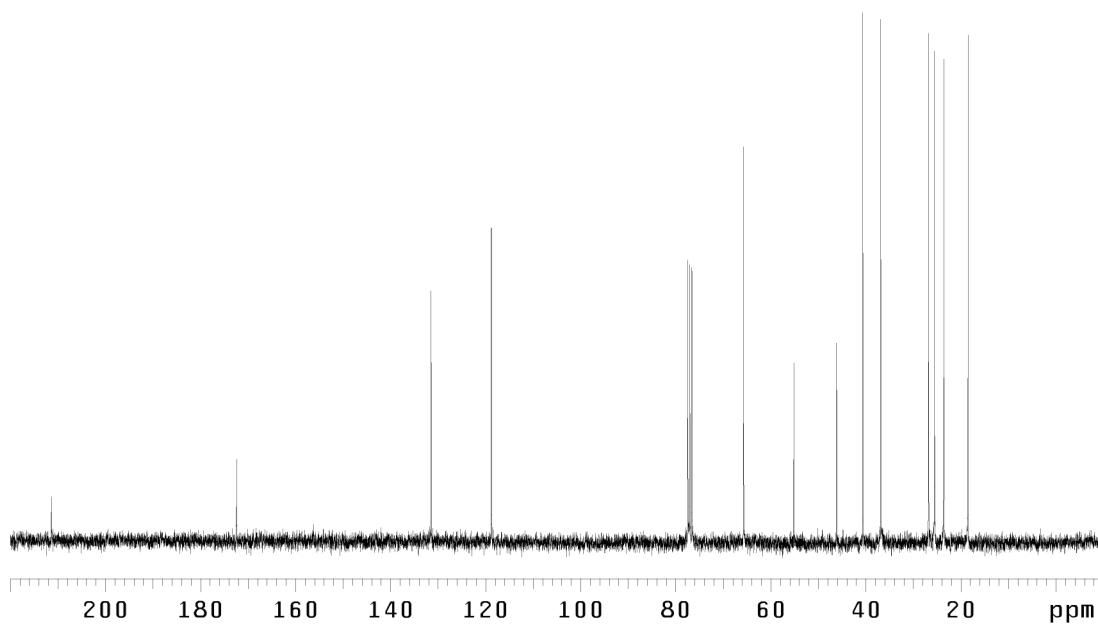


Figure A7.189 <sup>13</sup>C NMR of compound **282** (75 MHz, CDCl<sub>3</sub>)

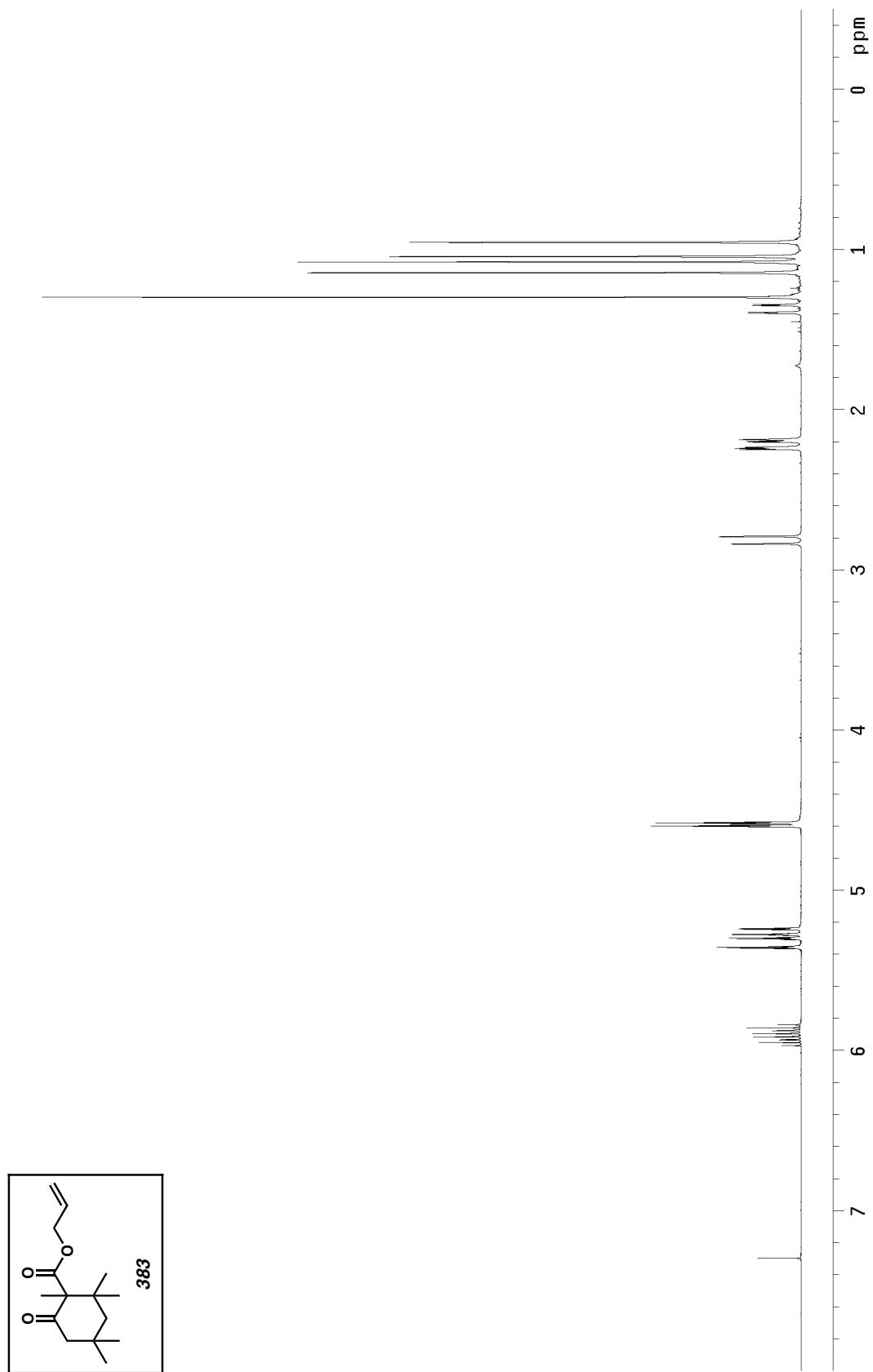
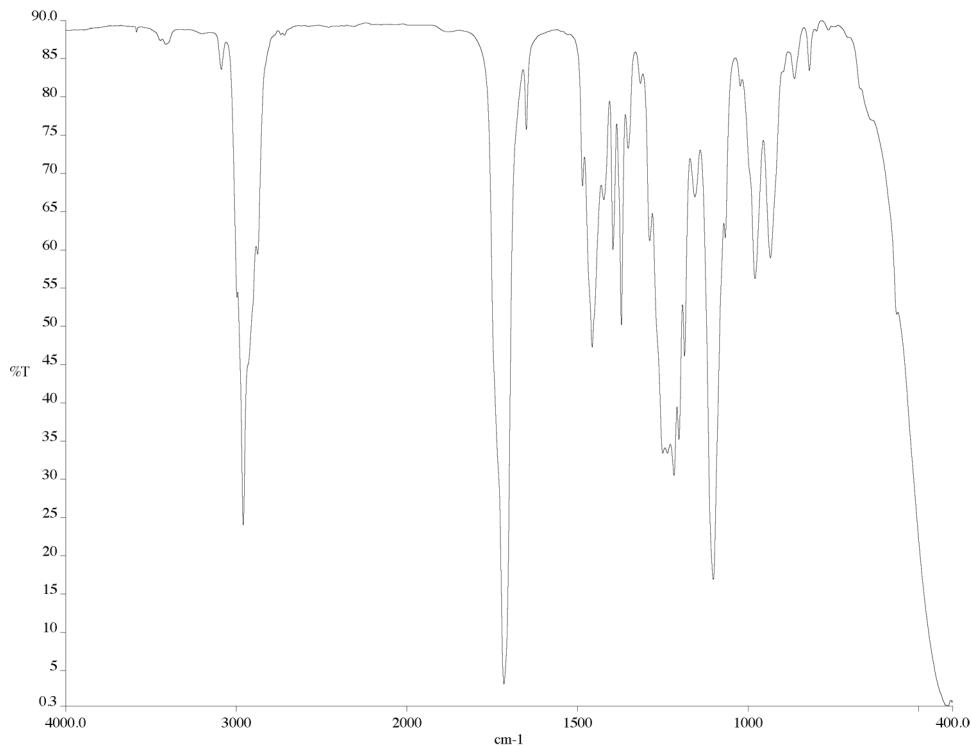
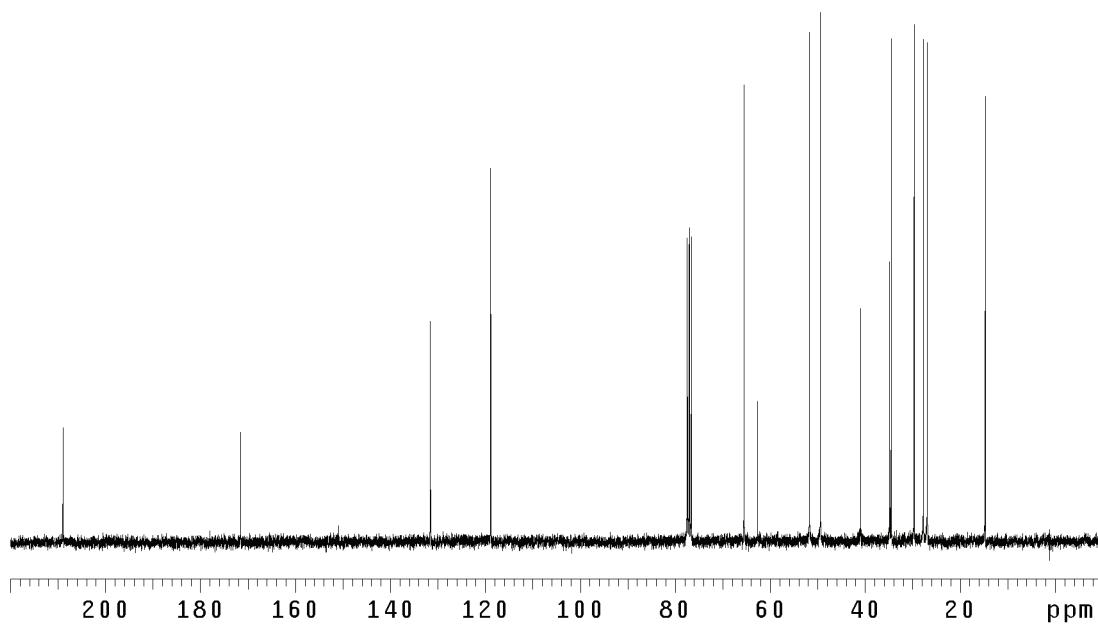


Figure A7.190  $^1\text{H}$  NMR of compound 383 (300 MHz,  $\text{CDCl}_3$ )

Figure A7.191 IR of compound **383** (NaCl/film)Figure A7.192 <sup>13</sup>C NMR of compound **383** (75 MHz, CDCl<sub>3</sub>)

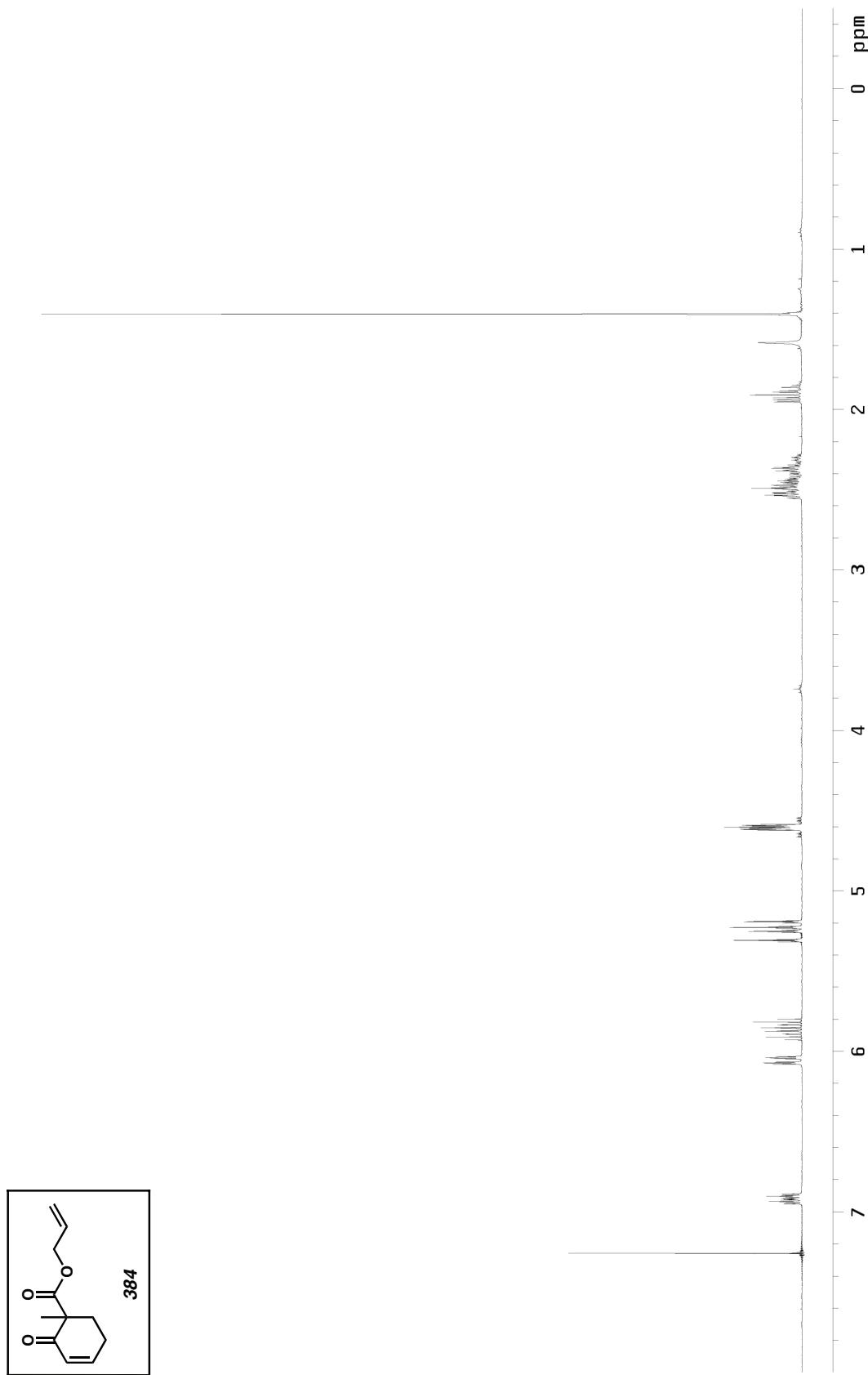


Figure A7.193  $^1\text{H}$  NMR of compound **384** (300 MHz,  $\text{CDCl}_3$ )

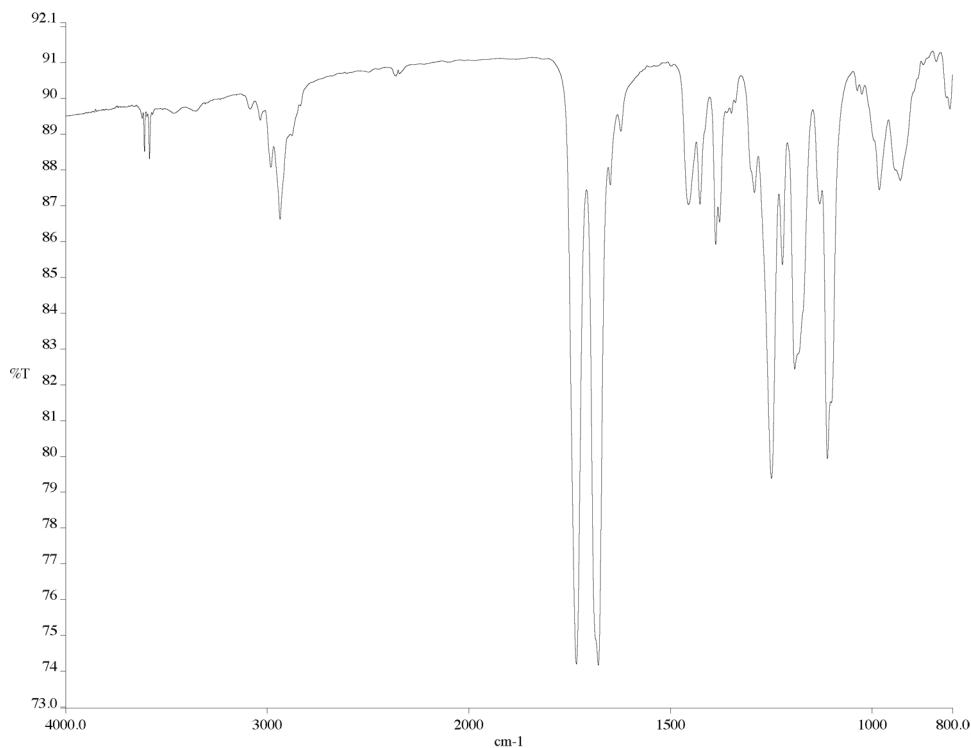


Figure A7.194 IR of compound **384** (NaCl/film)

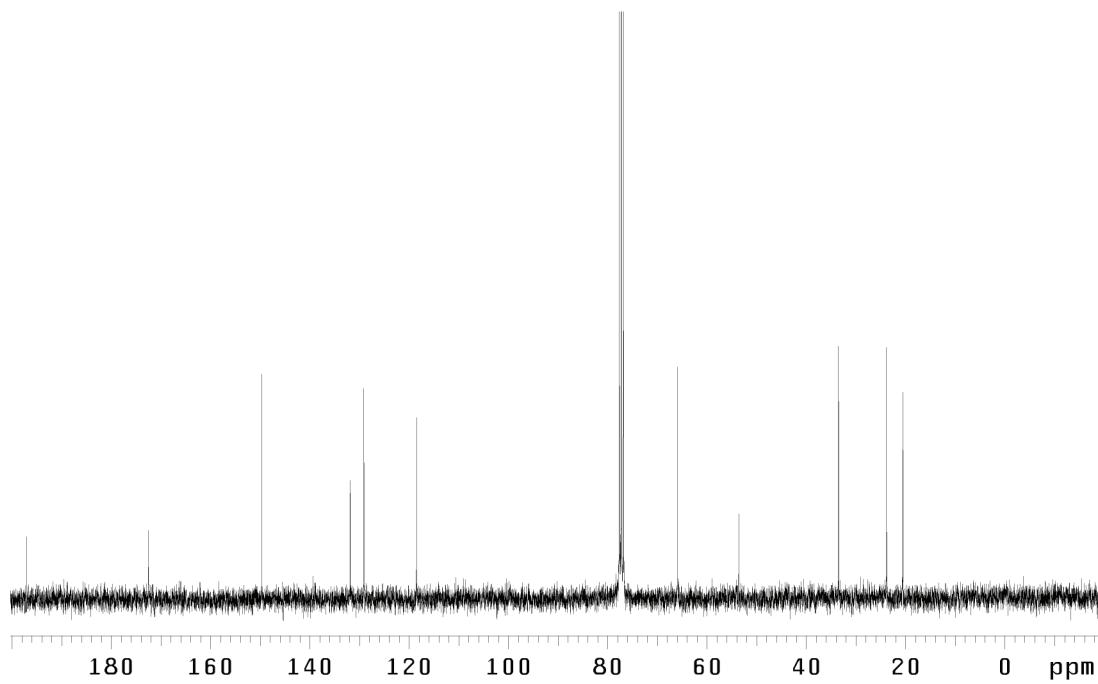


Figure A7.195  $^{13}\text{C}$  NMR of compound **384** (75 MHz,  $\text{CDCl}_3$ )

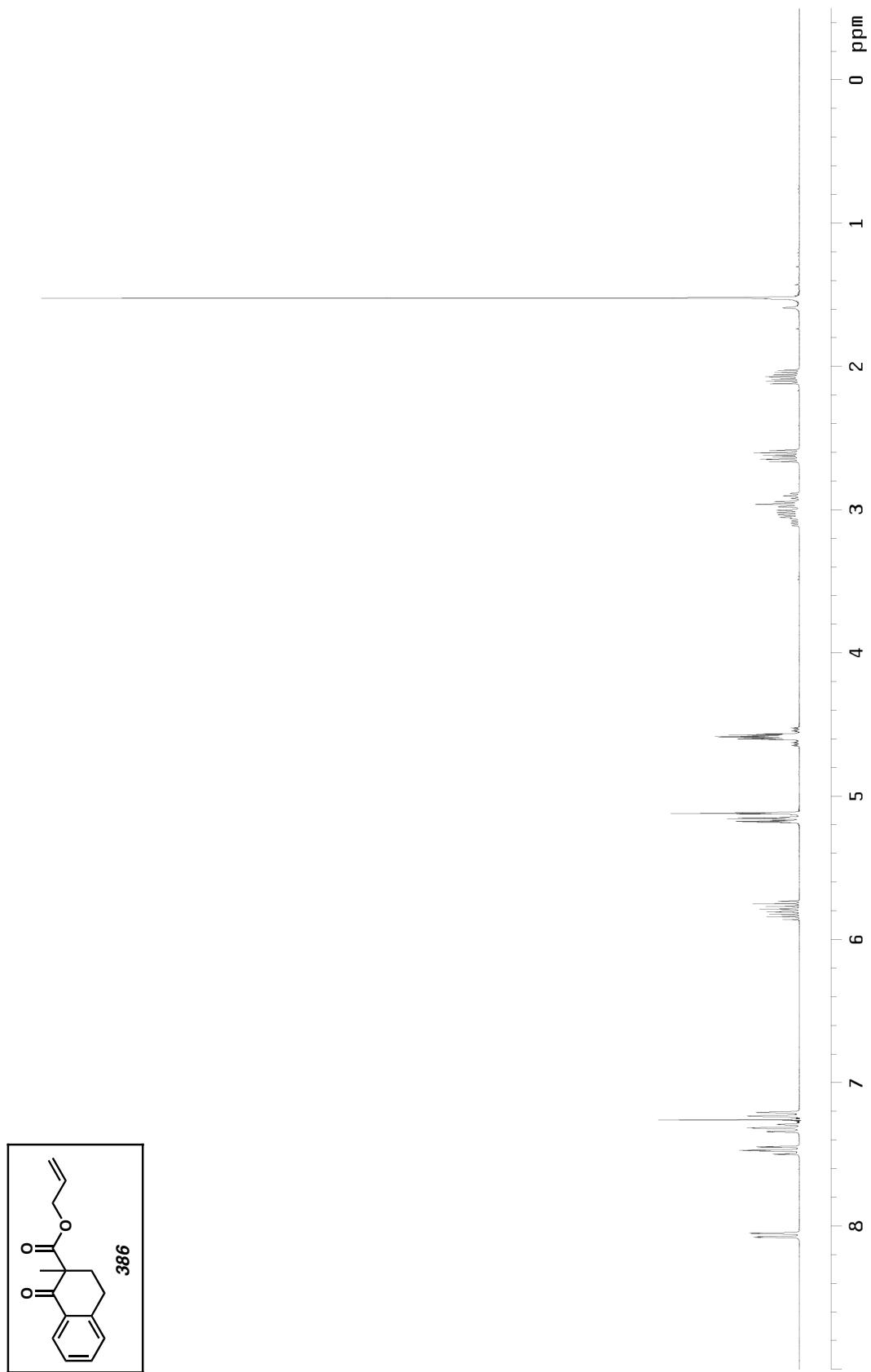


Figure A7.196  $^1\text{H}$  NMR of compound **386** (300 MHz,  $\text{CDCl}_3$ )

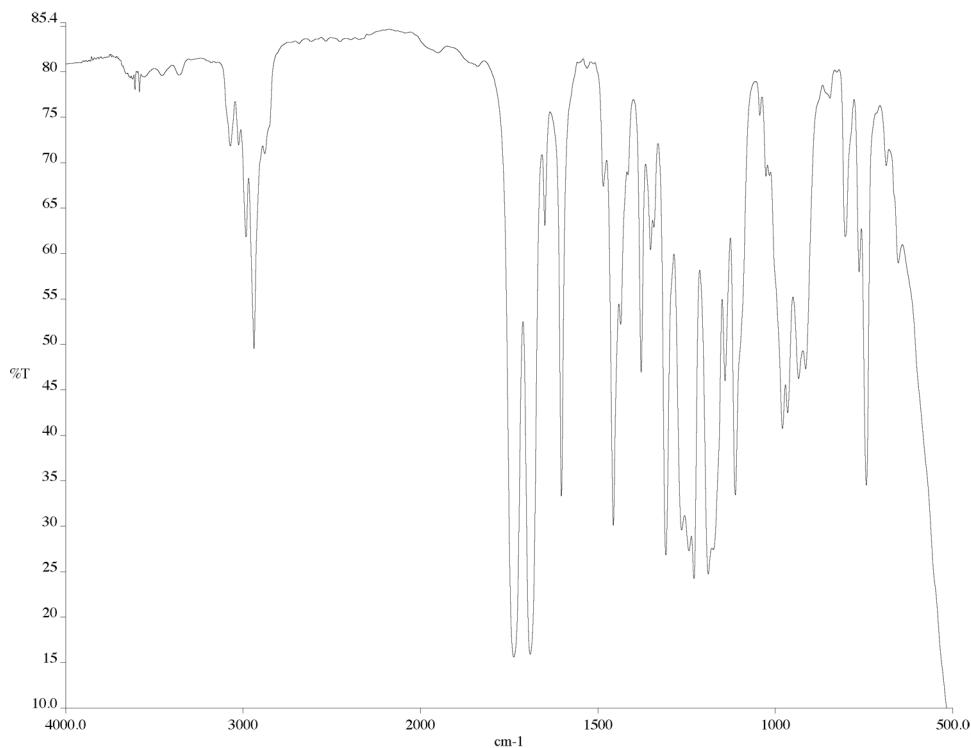


Figure A7.197 IR of compound **386** (NaCl/film)

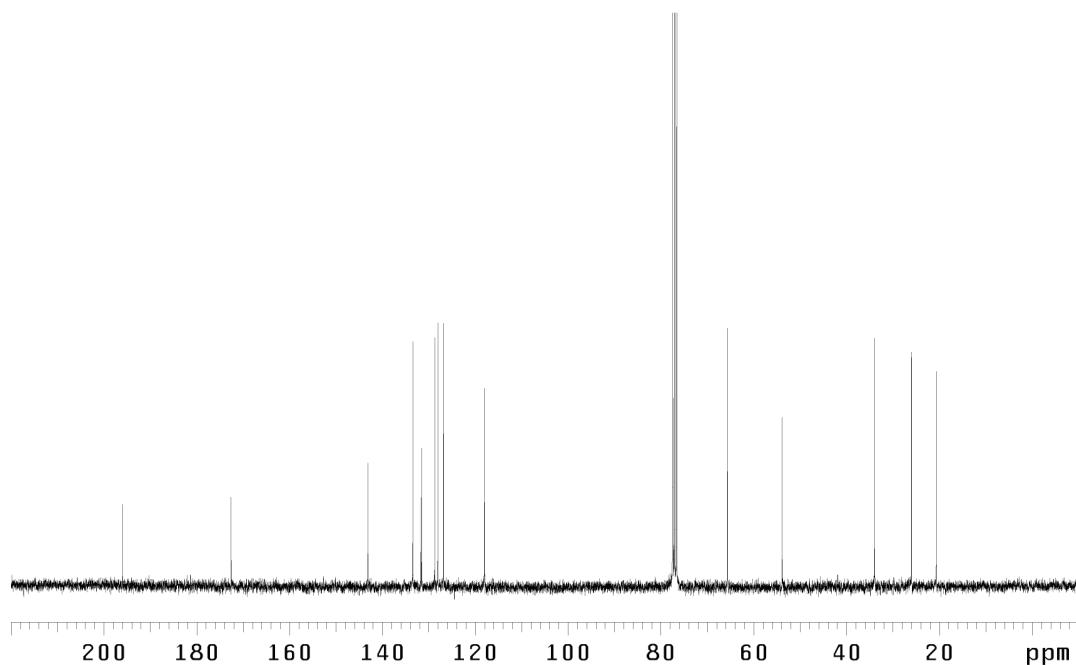


Figure A7.198 <sup>13</sup>C NMR of compound **386** (75 MHz, CDCl<sub>3</sub>)

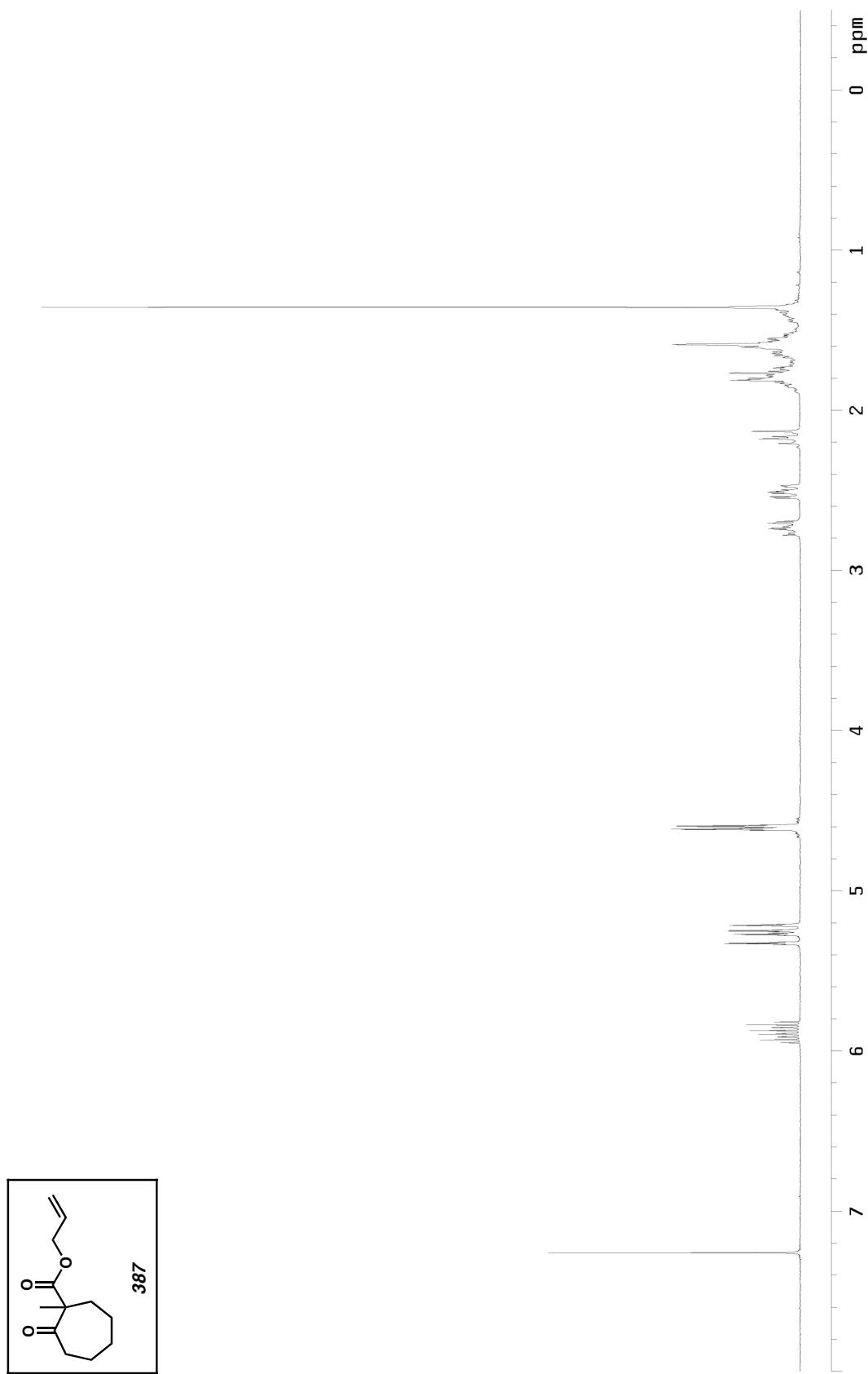
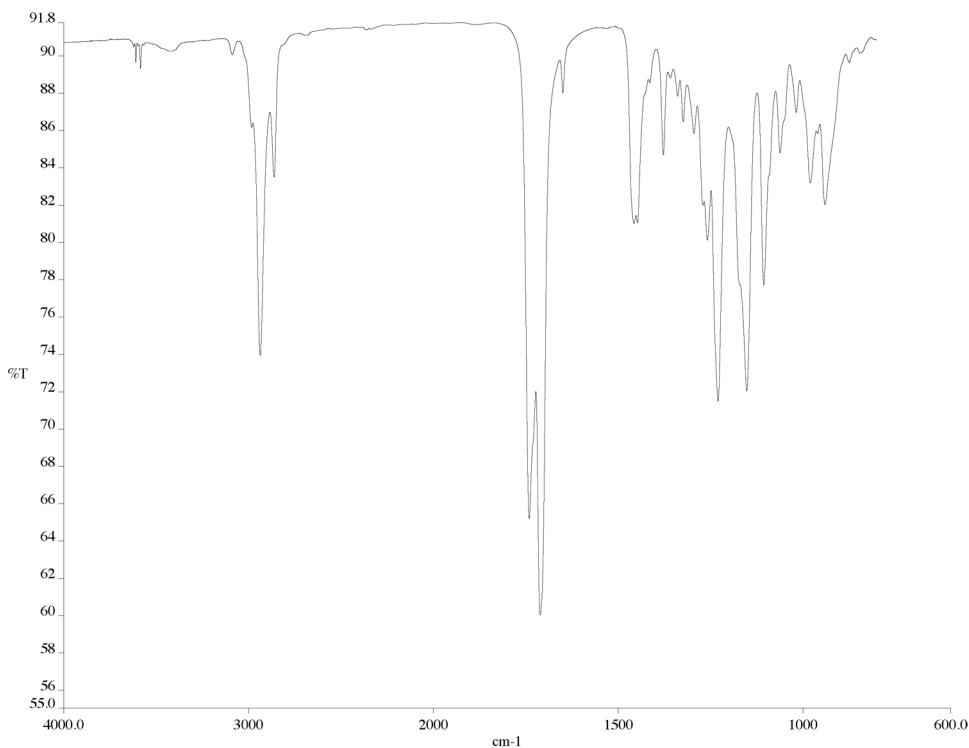
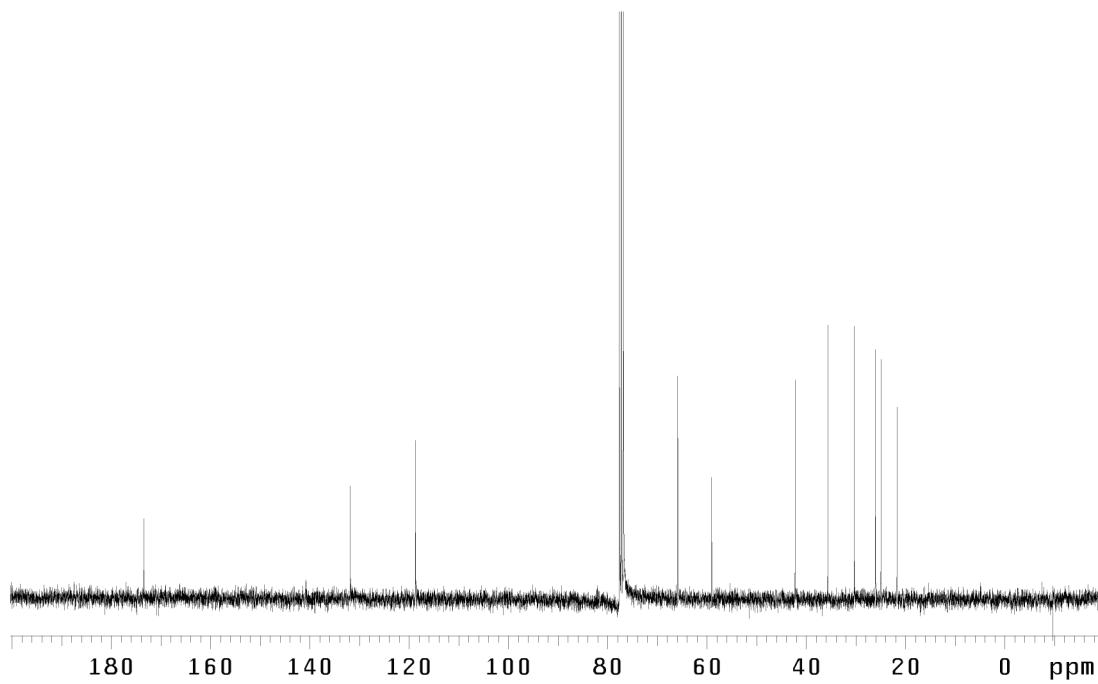


Figure A7.199  $^1\text{H}$  NMR of compound 387 (300 MHz,  $\text{CDCl}_3$ )

Figure A7.200 IR of compound **387** (NaCl/film)Figure A7.201 <sup>13</sup>C NMR of compound **387** (75 MHz, CDCl<sub>3</sub>)

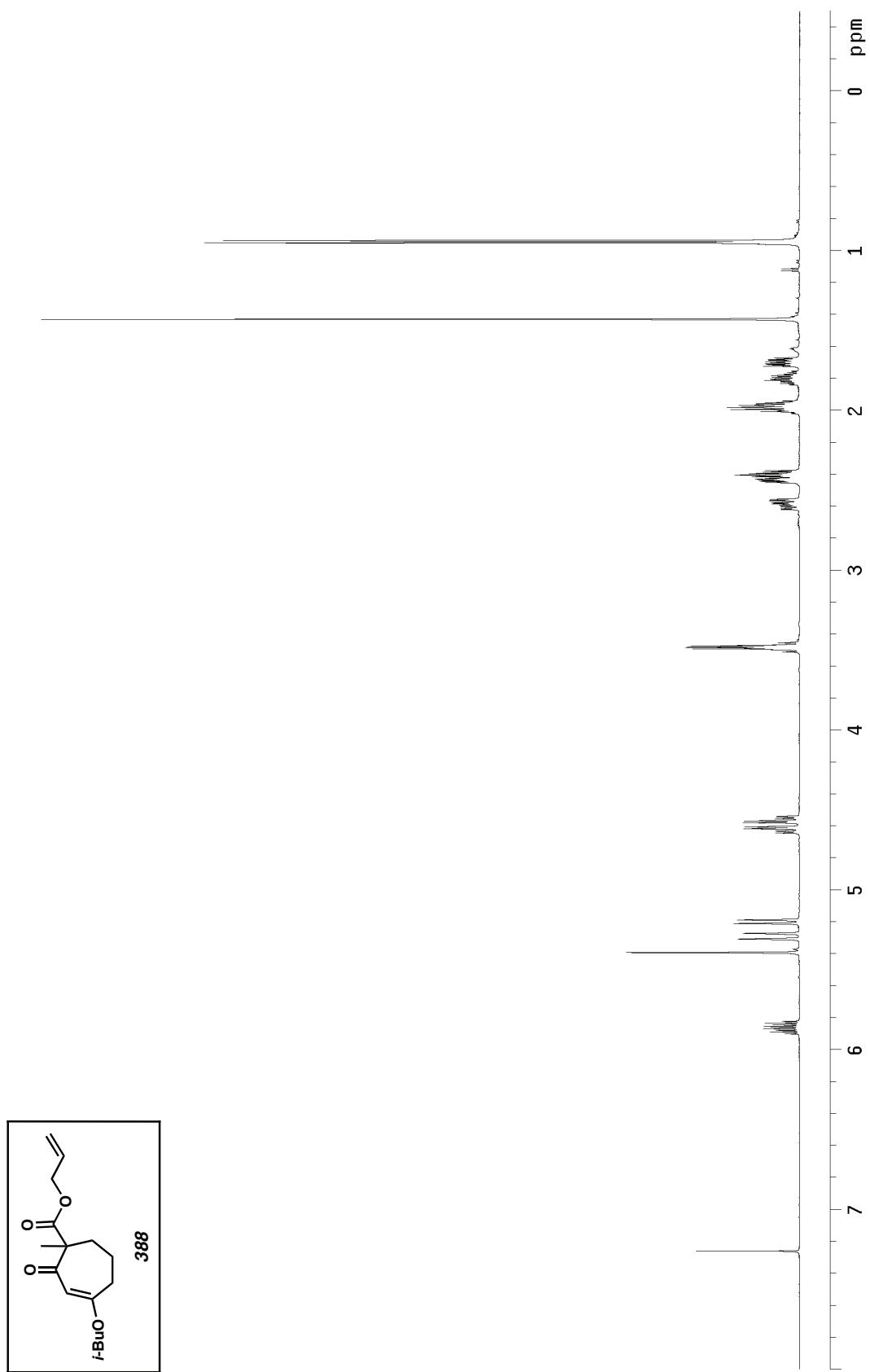


Figure A7.202  $^1\text{H}$  NMR of compound **388** (500 MHz,  $\text{CDCl}_3$ )

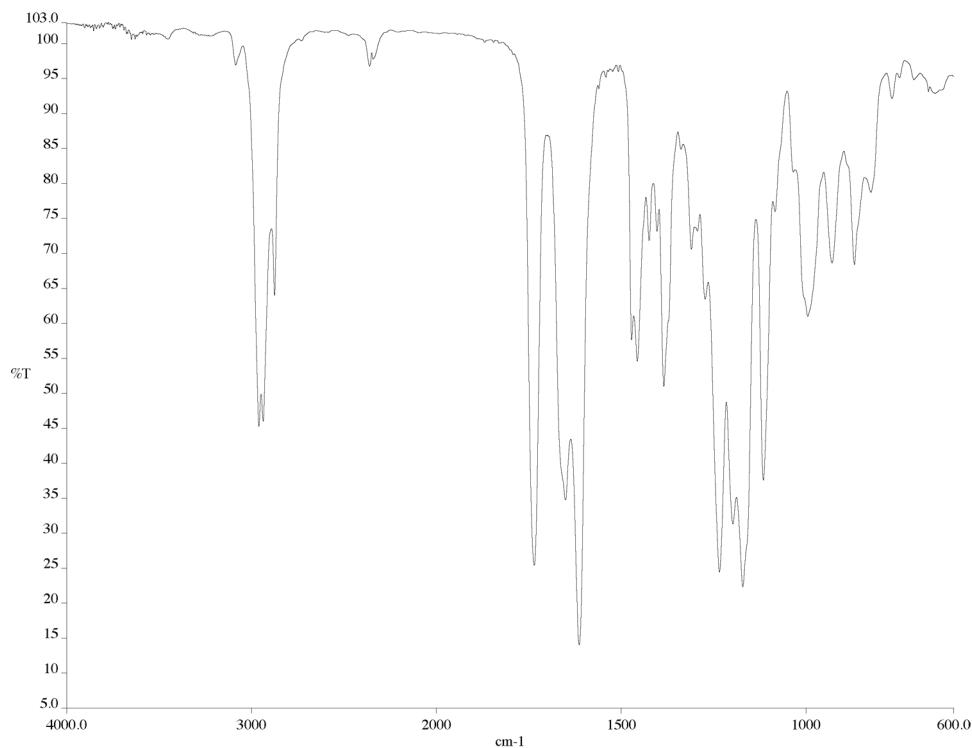


Figure A7.203 IR of compound **388** (NaCl/film)

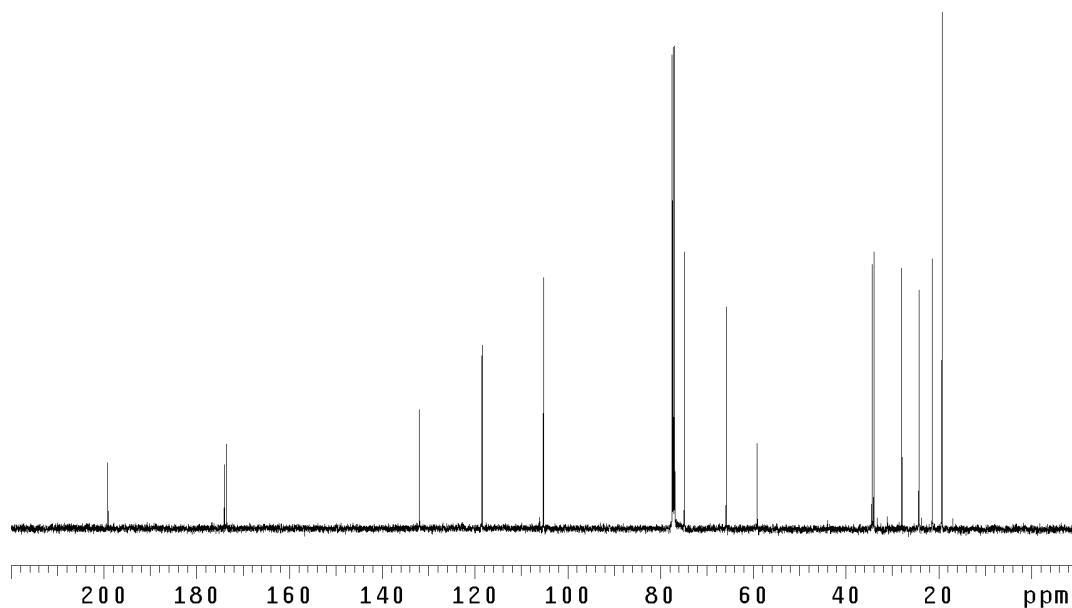


Figure A7.204 <sup>13</sup>C NMR of compound **388** (125 MHz, CDCl<sub>3</sub>)

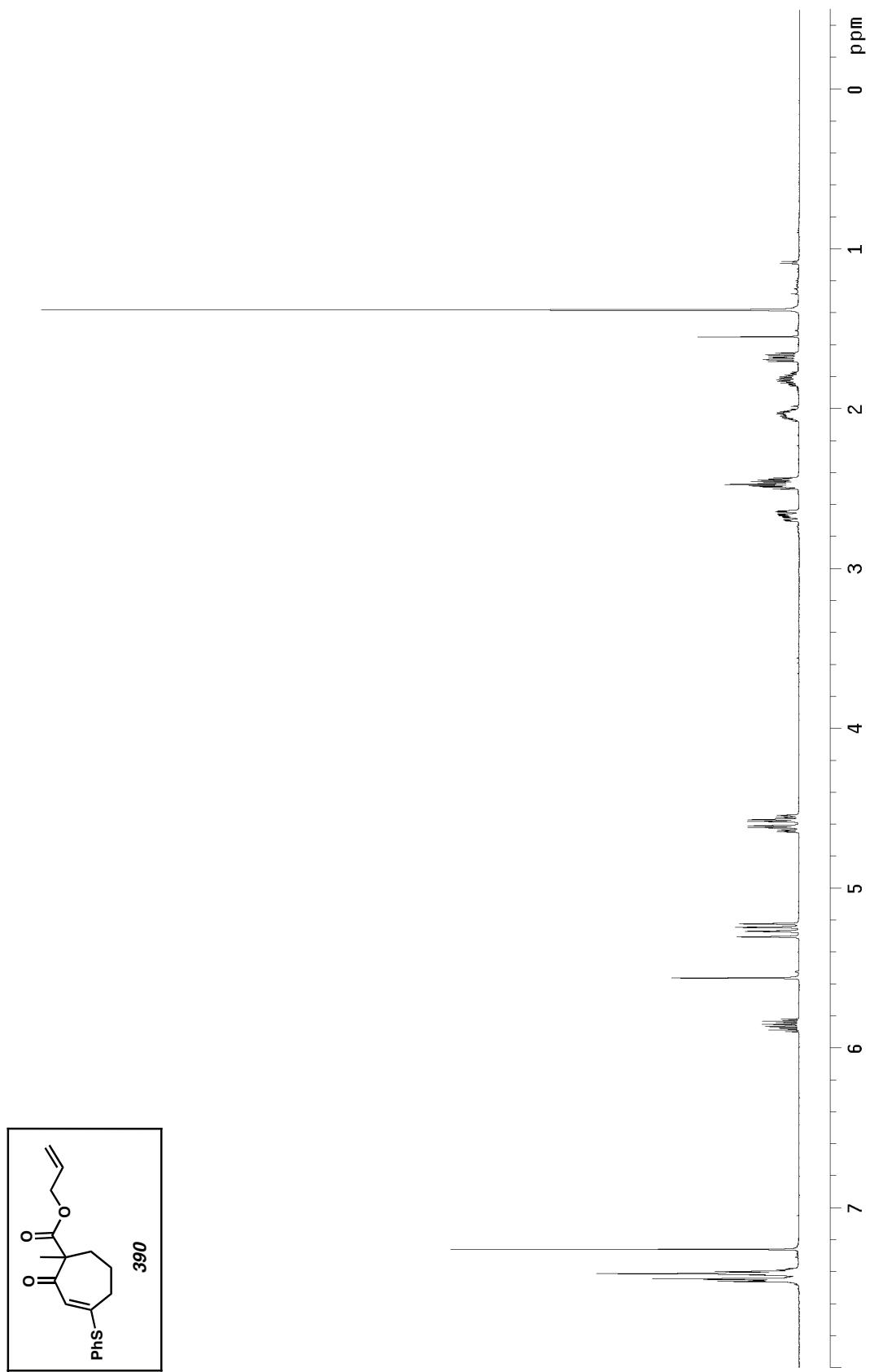


Figure A7.205  $^1\text{H}$  NMR of compound 390 (500 MHz,  $\text{CDCl}_3$ )

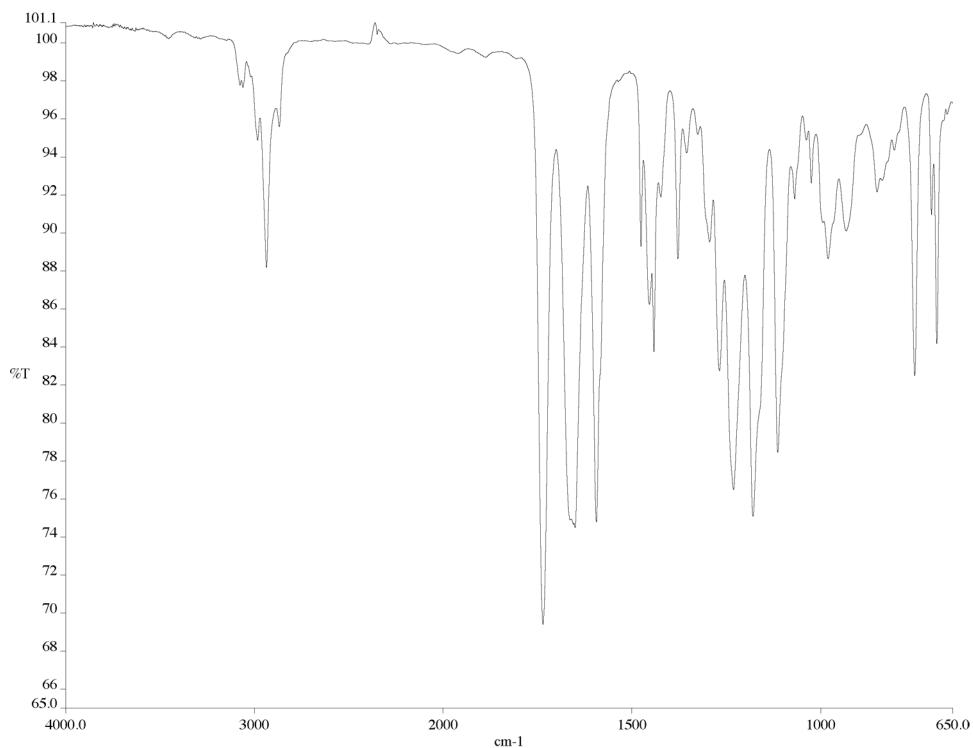


Figure A7.206 IR of compound **390** (NaCl/film)

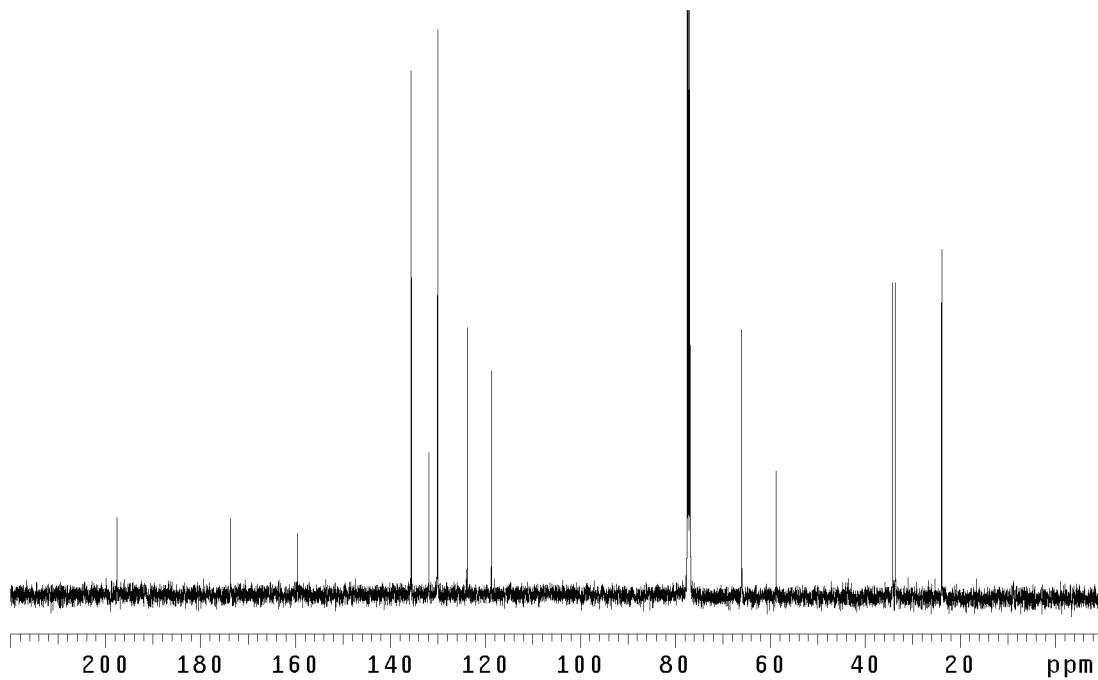


Figure A7.207  $^{13}\text{C}$  NMR of compound **390** (125 MHz,  $\text{CDCl}_3$ )

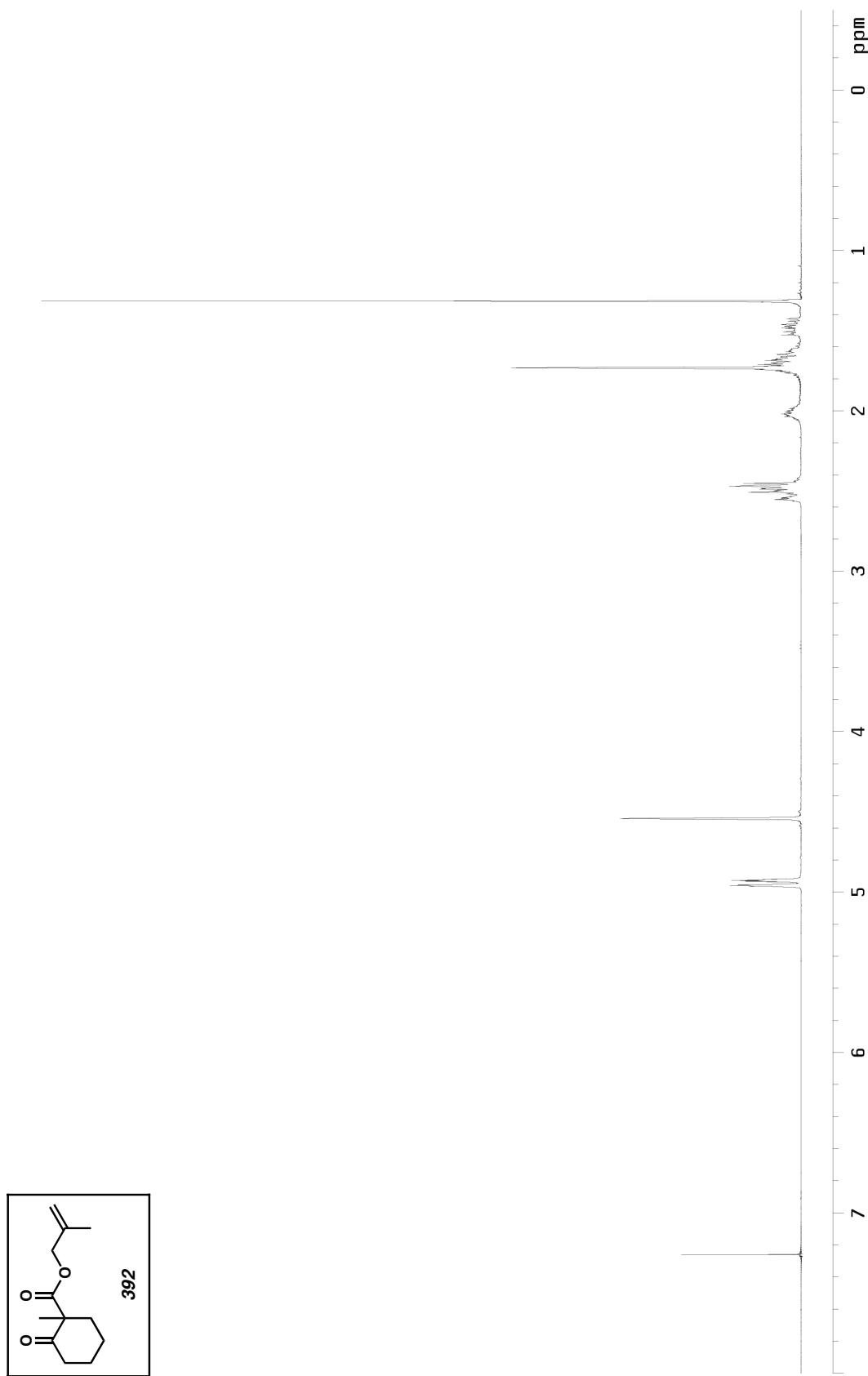


Figure A7.208  $^1\text{H}$  NMR of compound 392 (300 MHz,  $\text{CDCl}_3$ )

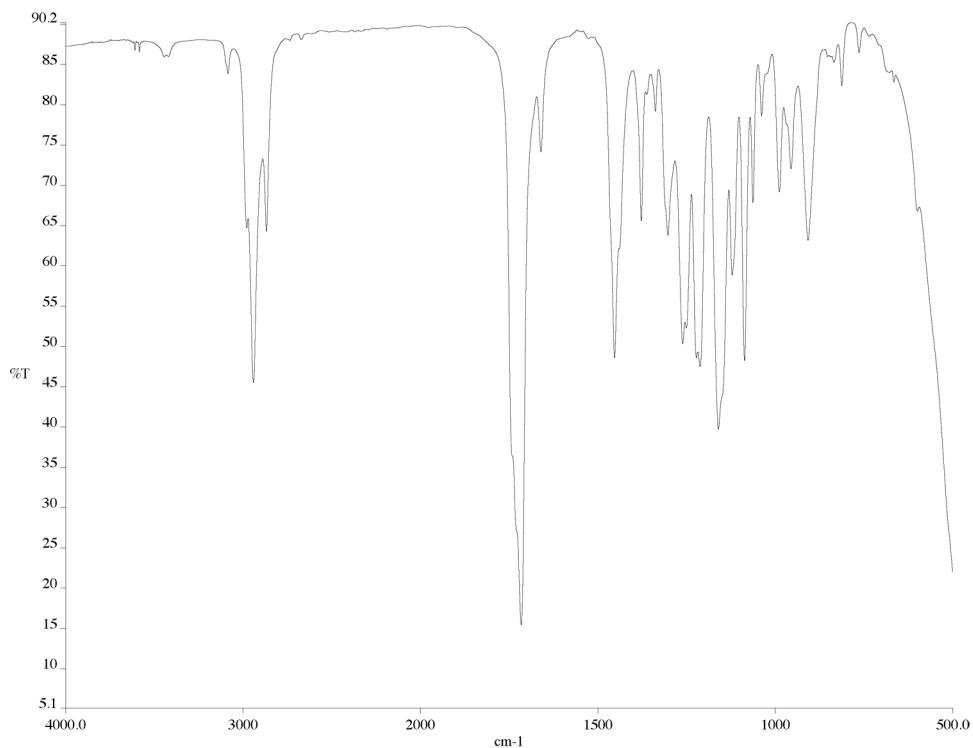


Figure A7.209 IR of compound **392** (NaCl/film)

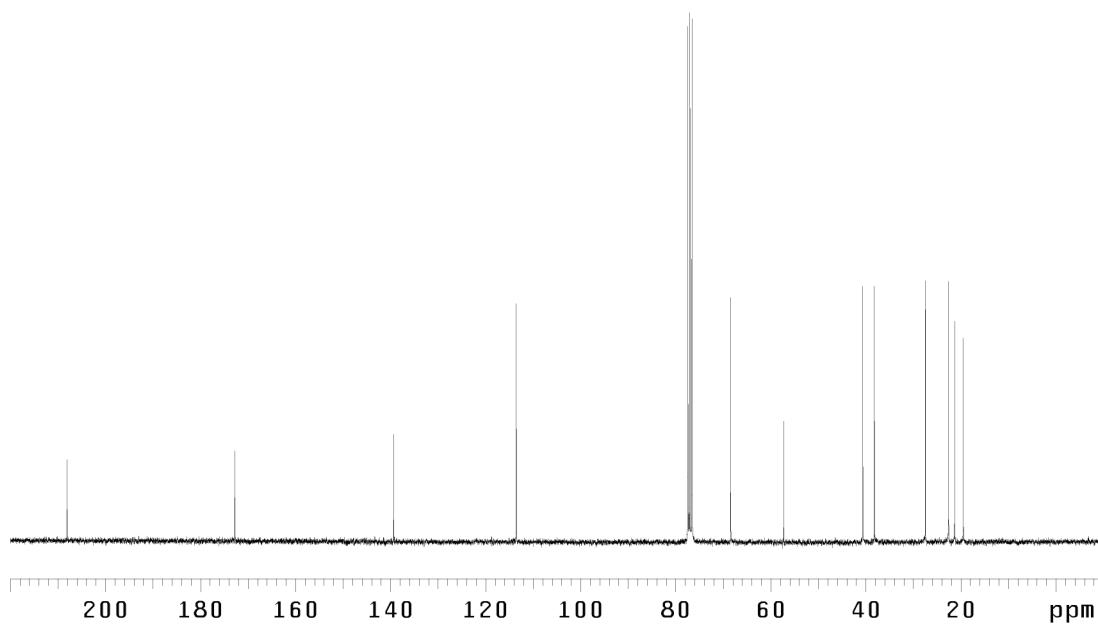


Figure A7.210  $^{13}\text{C}$  NMR of compound **392** (75 MHz,  $\text{CDCl}_3$ )

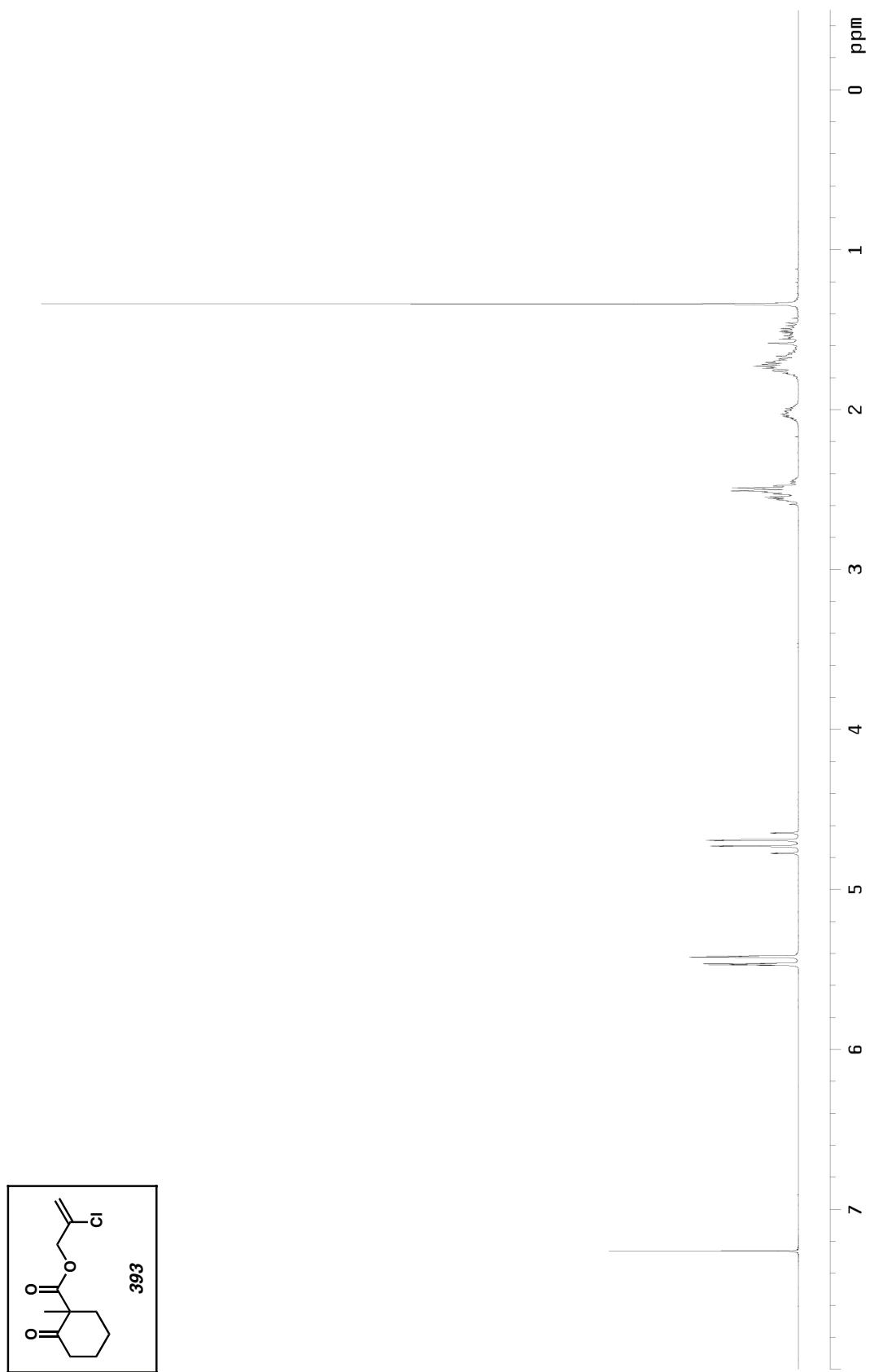


Figure A7.211 <sup>1</sup>H NMR of compound 393 (300 MHz, CDCl<sub>3</sub>)

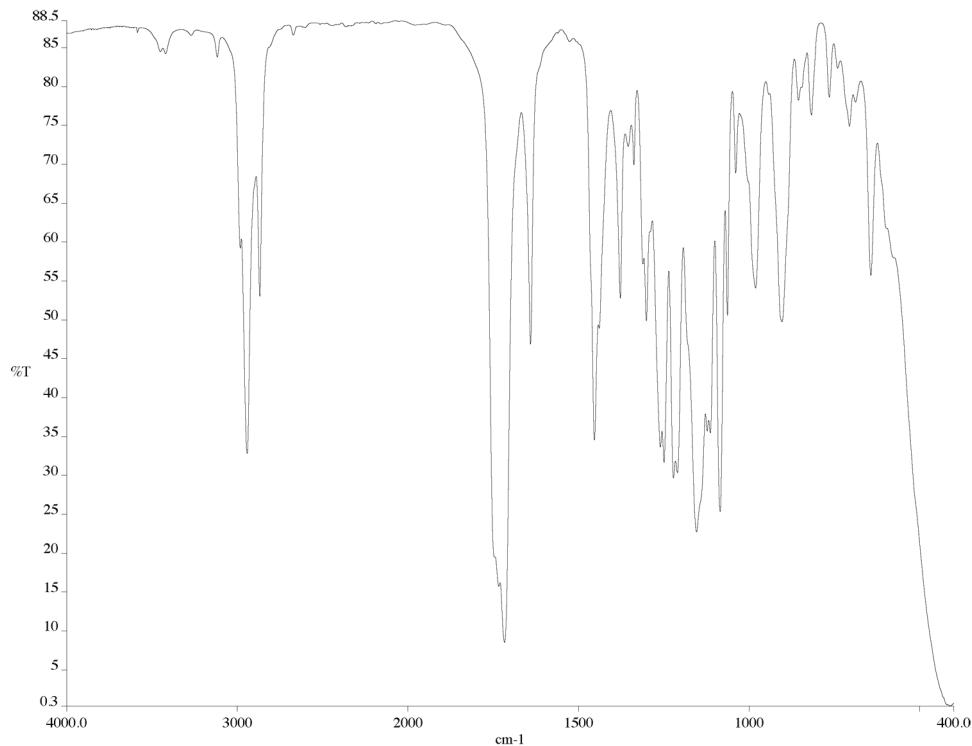


Figure A7.212 IR of compound **393** (NaCl/film)

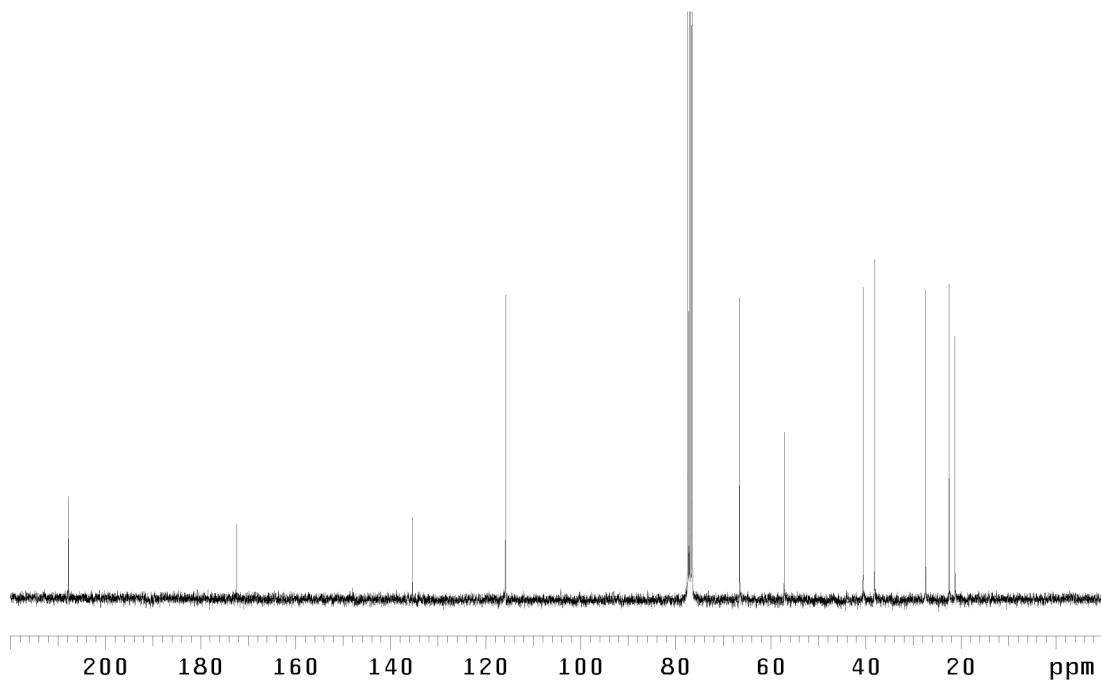


Figure A7.213 <sup>13</sup>C NMR of compound **393** (75 MHz, CDCl<sub>3</sub>)

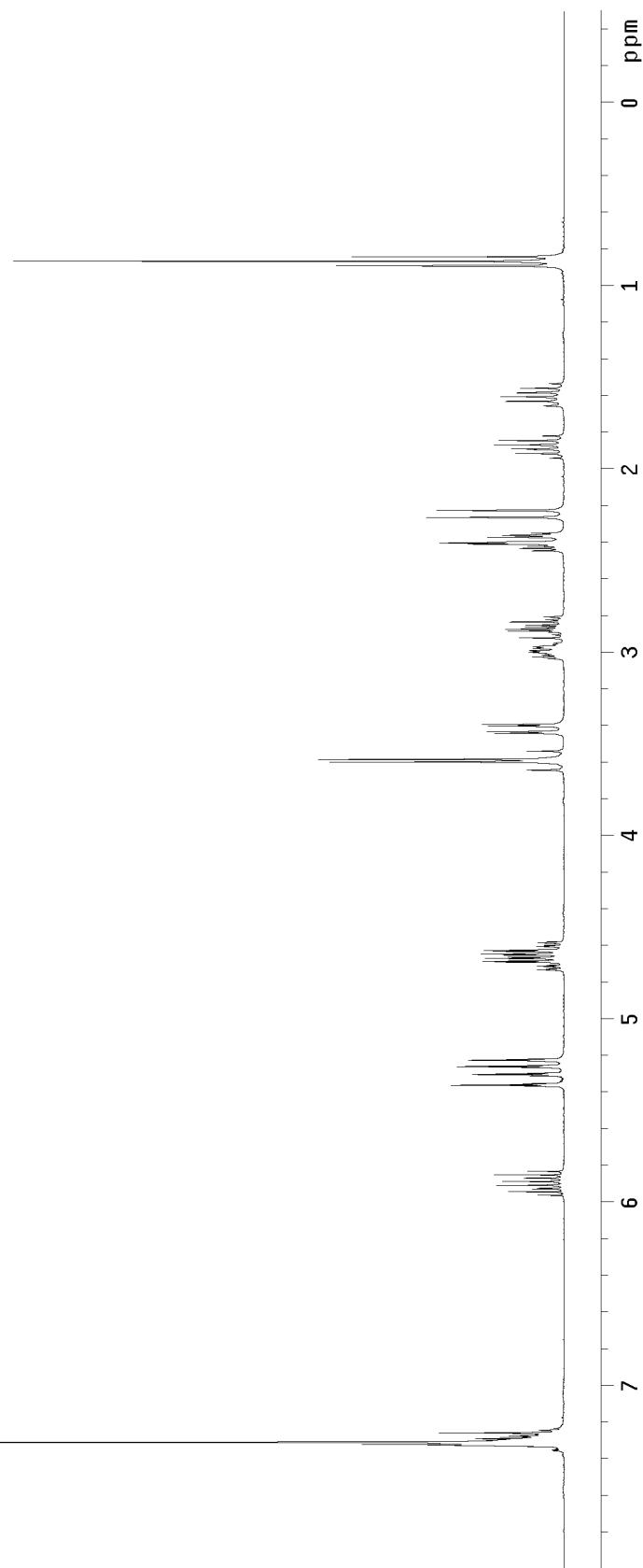
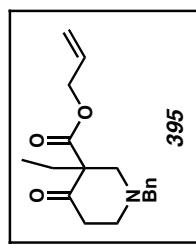


Figure A7.214 <sup>1</sup>H NMR of compound 395 (300 MHz, CDCl<sub>3</sub>)

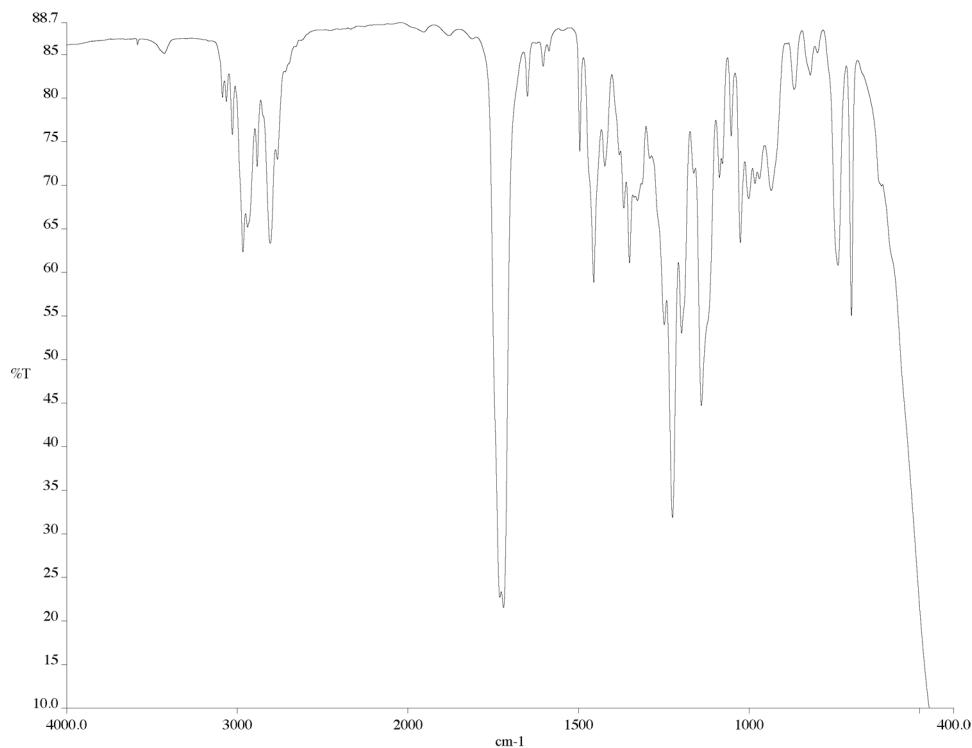


Figure A7.215 IR of compound **395** (NaCl/film)

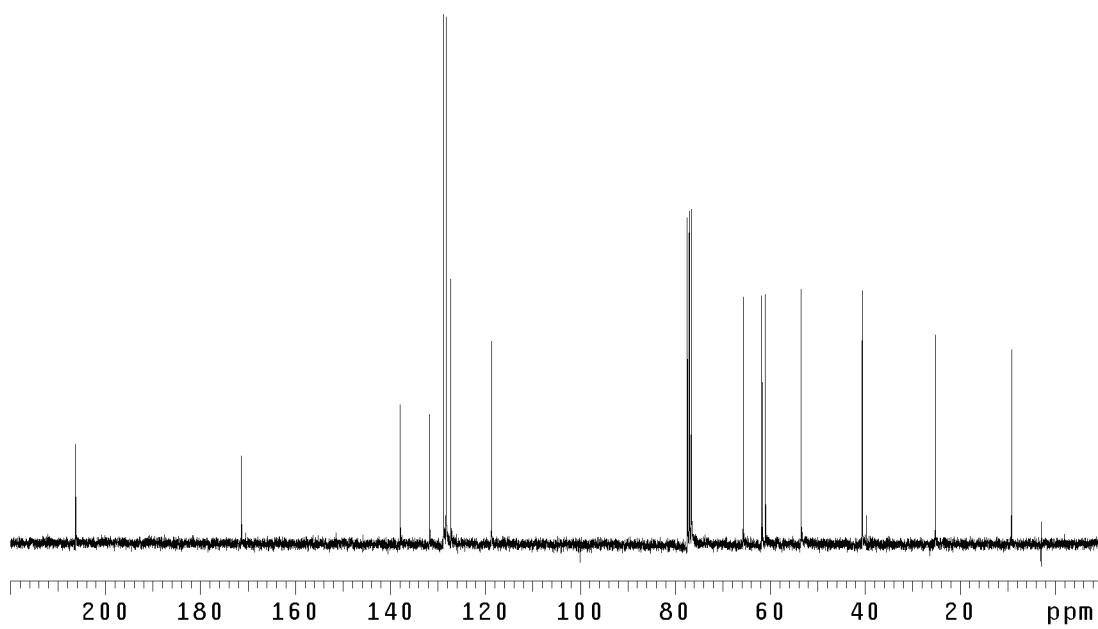


Figure A7.216 <sup>13</sup>C NMR of compound **395** (75 MHz, CDCl<sub>3</sub>)

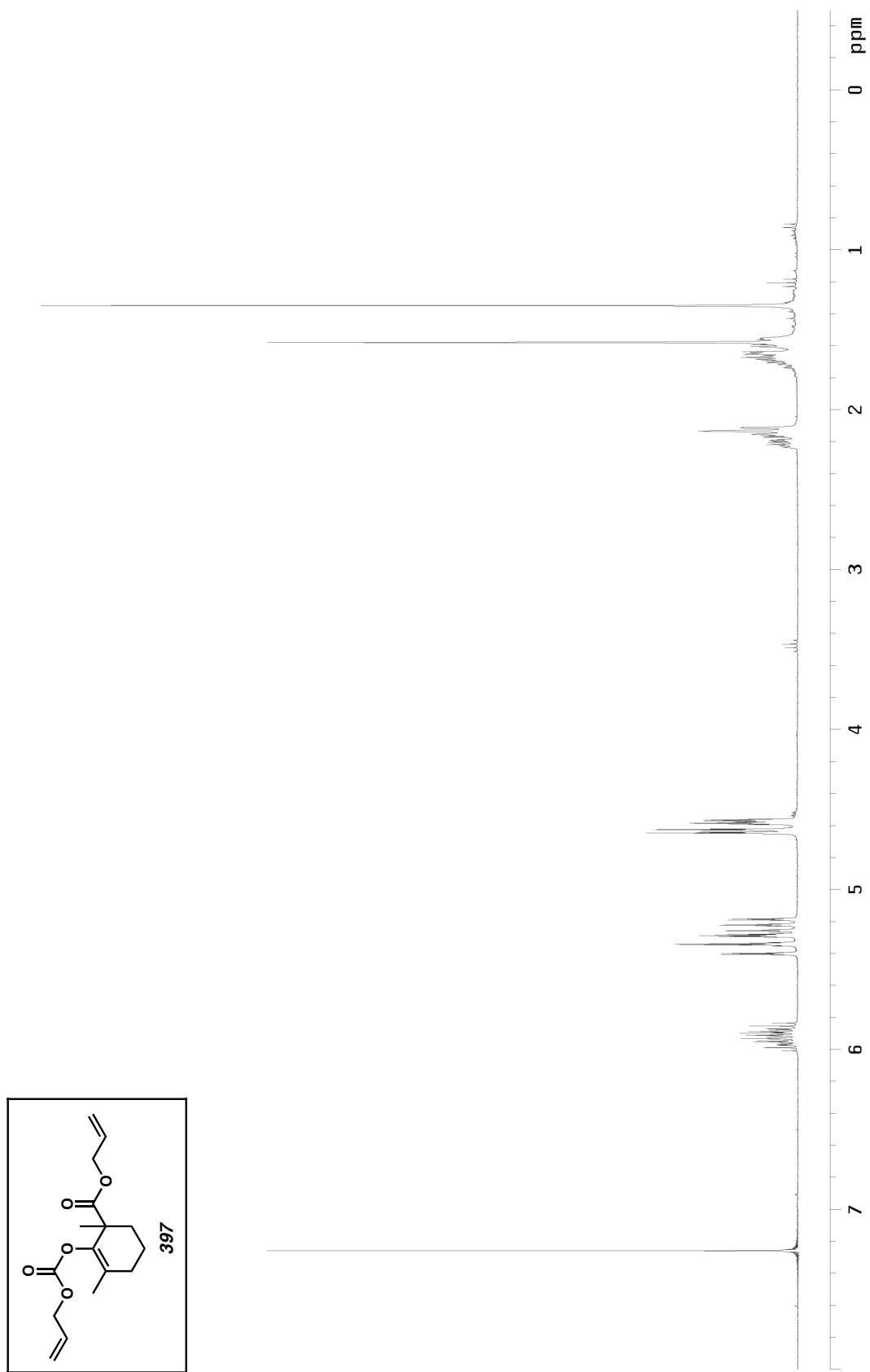


Figure A7.217  $^1\text{H}$  NMR of compound 397 (300 MHz,  $\text{CDCl}_3$ )

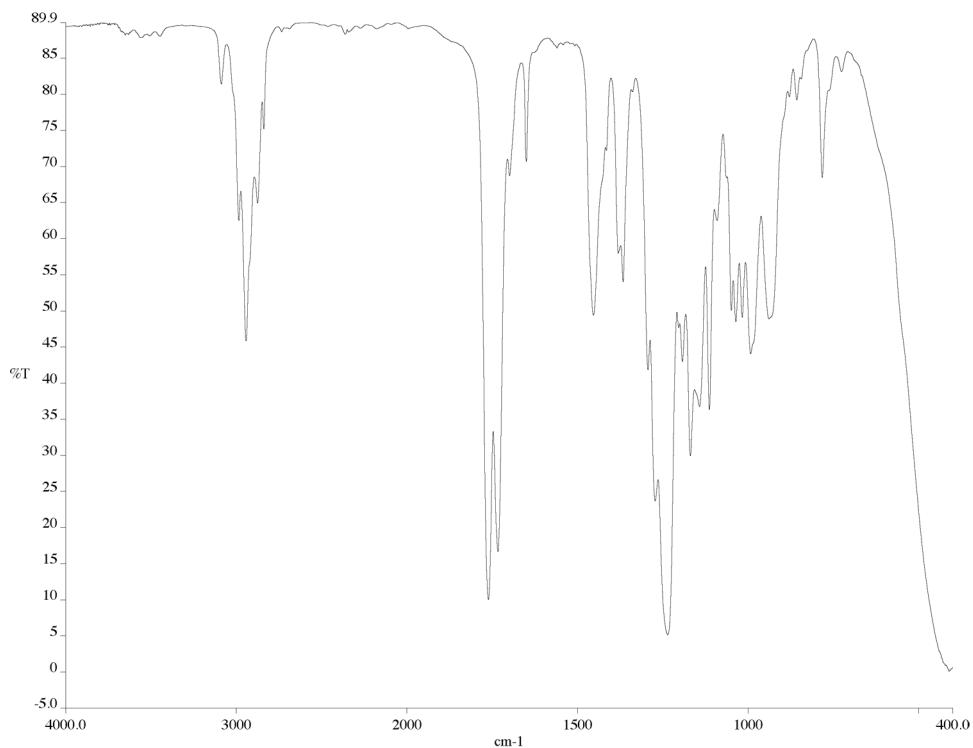


Figure A7.218 IR of compound **397** (NaCl/film)

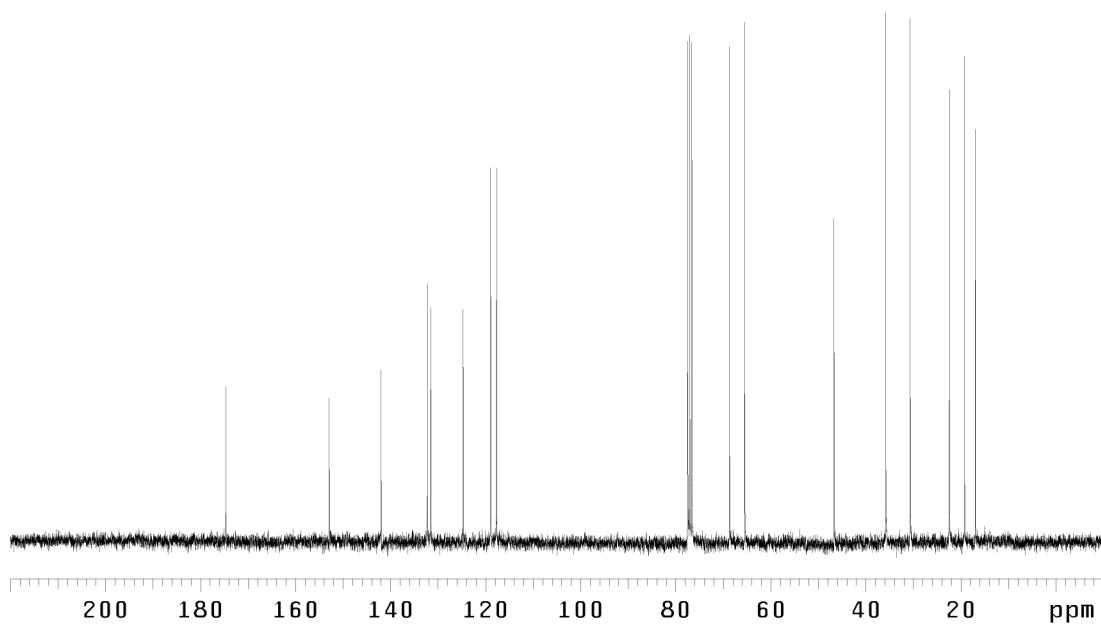


Figure A7.219 <sup>13</sup>C NMR of compound **397** (75 MHz, CDCl<sub>3</sub>)

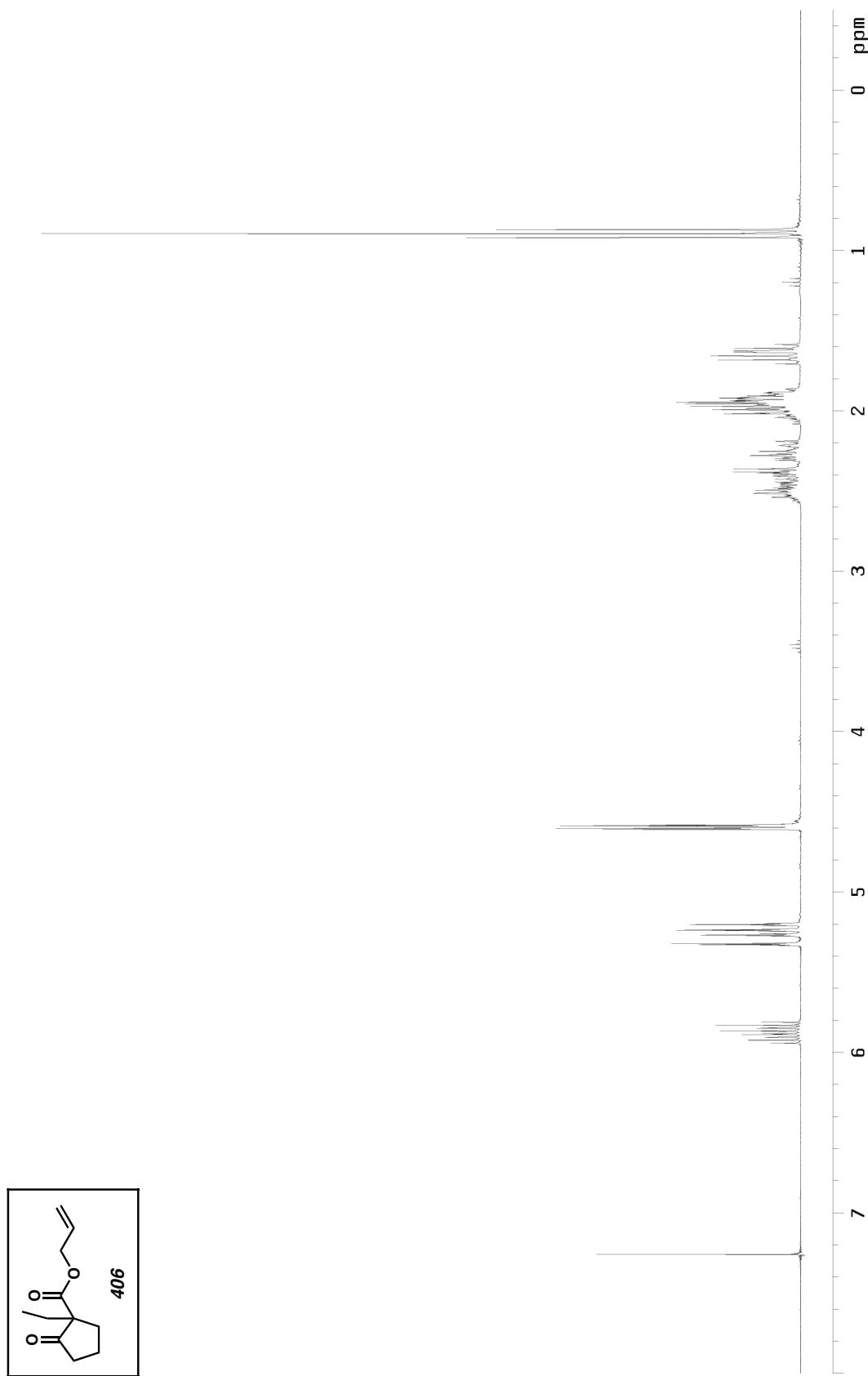


Figure A7.220  $^1\text{H}$  NMR of compound 406 (300 MHz,  $\text{CDCl}_3$ )

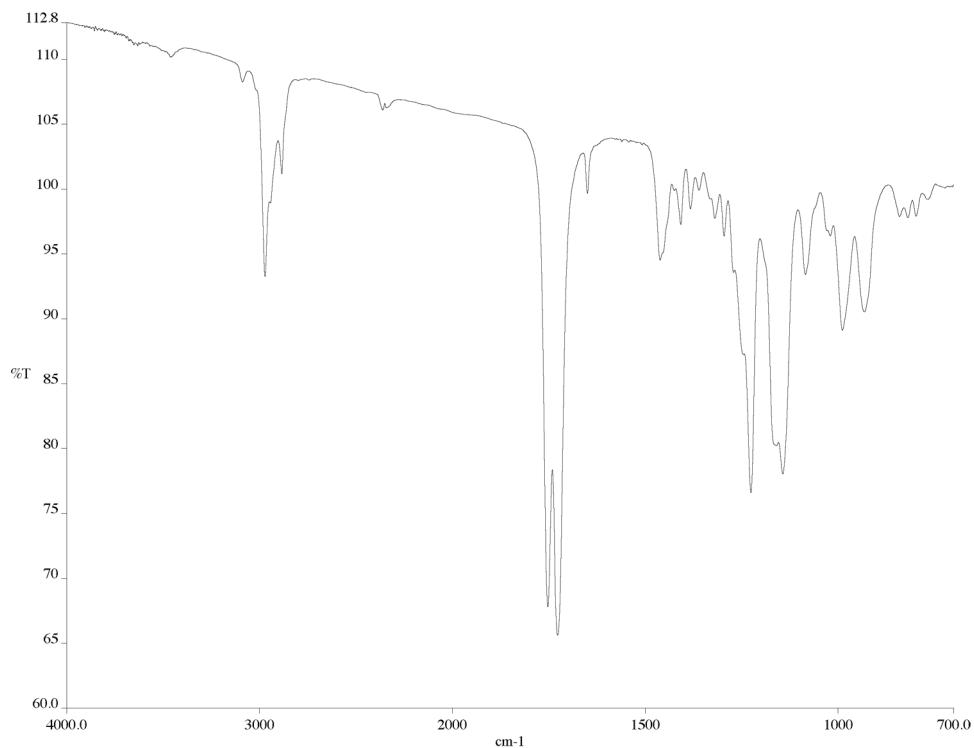


Figure A7.221 IR of compound **406** (NaCl/film)

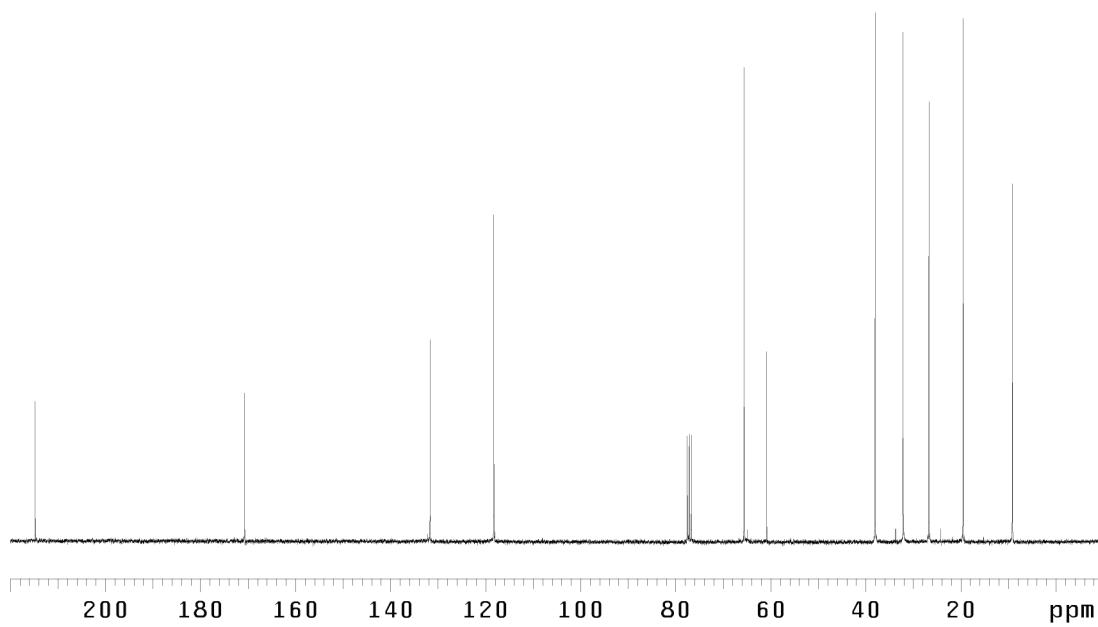


Figure A7.222  $^{13}\text{C}$  NMR of compound **406** (75 MHz,  $\text{CDCl}_3$ )

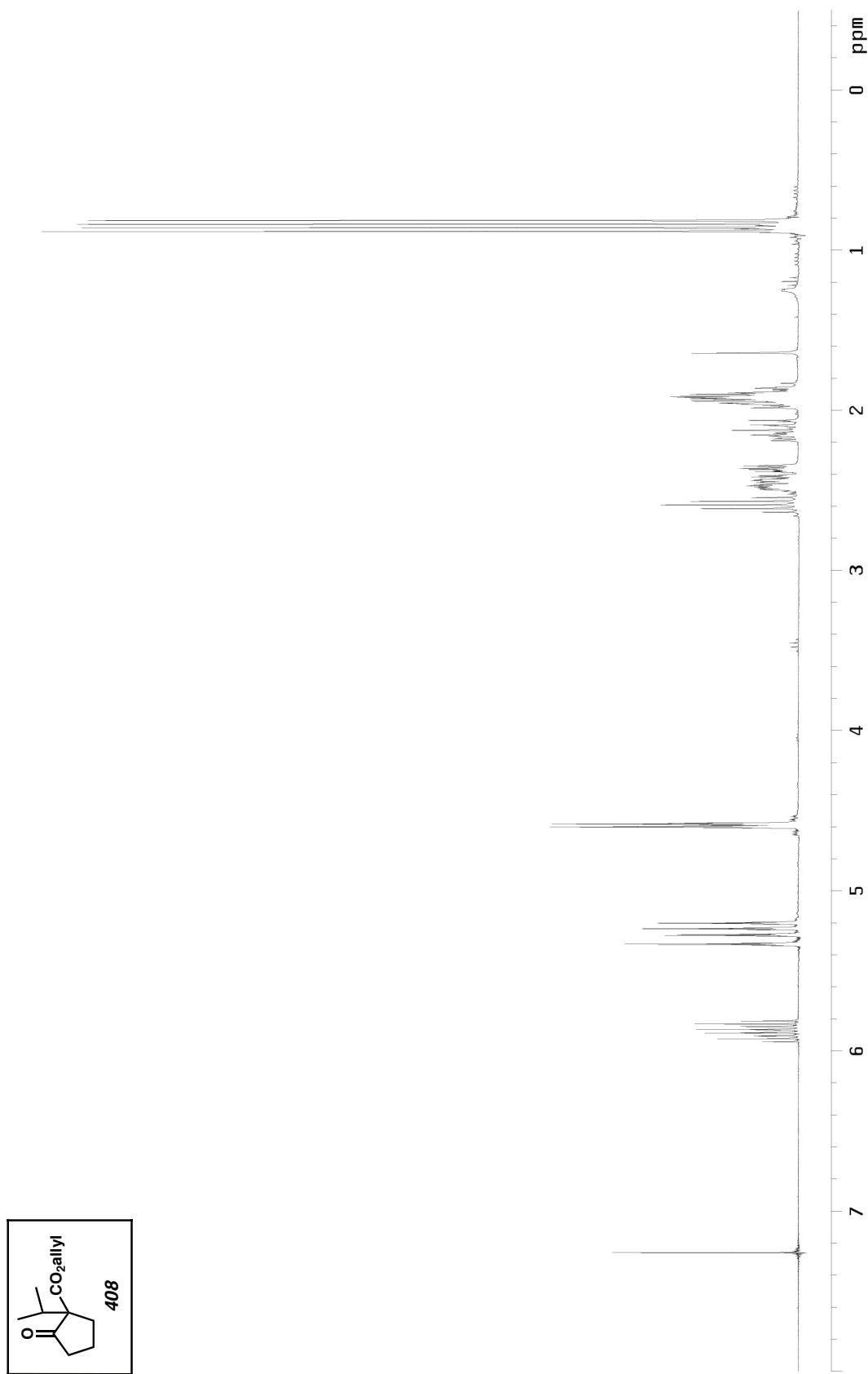


Figure A7.223 <sup>1</sup>H NMR of compound 408 (300 MHz, CDCl<sub>3</sub>)

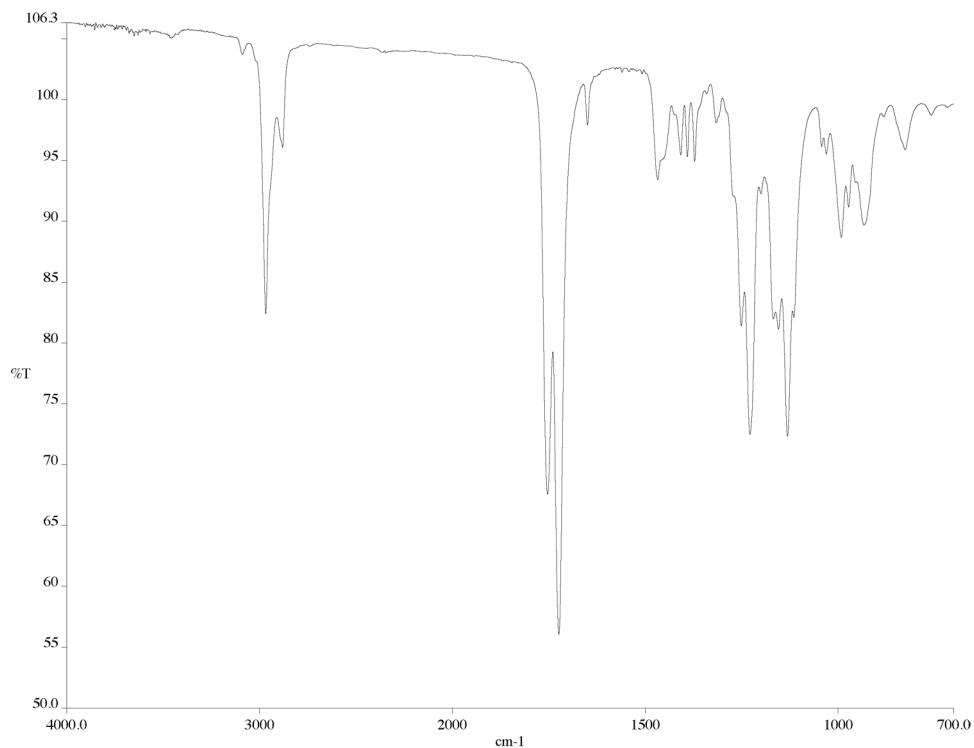


Figure A7.224 IR of compound **408** (NaCl/film)

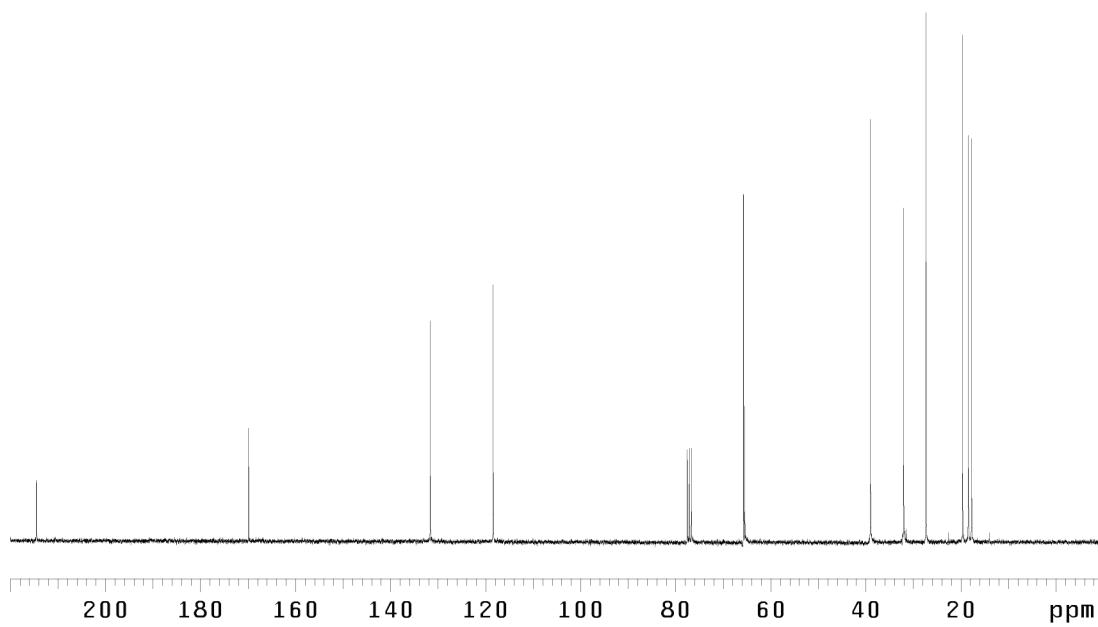


Figure A7.225  $^{13}\text{C}$  NMR of compound **408** (75 MHz,  $\text{CDCl}_3$ )

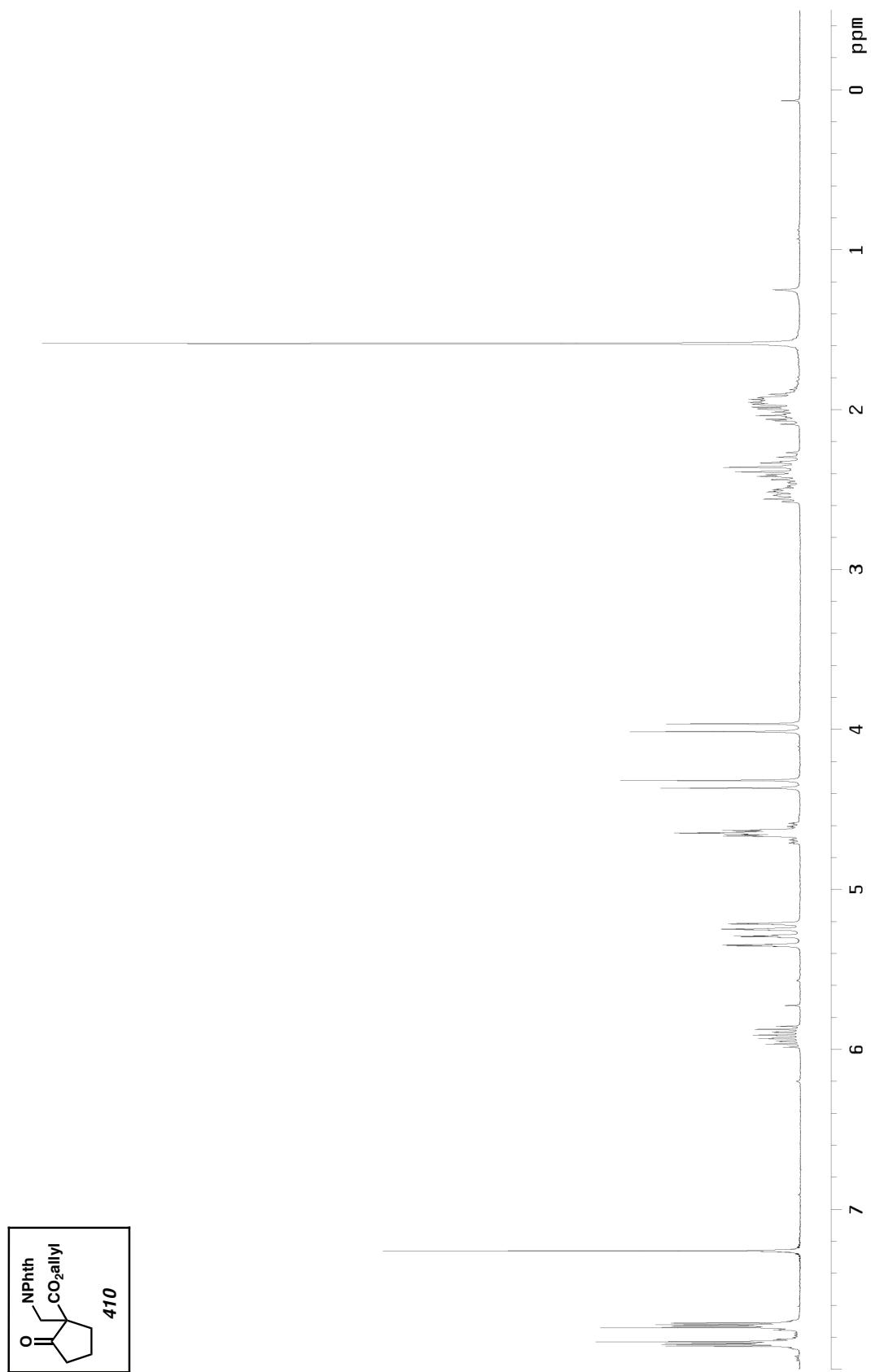


Figure A7.226 <sup>1</sup>H NMR of compound 410 (300 MHz, CDCl<sub>3</sub>)

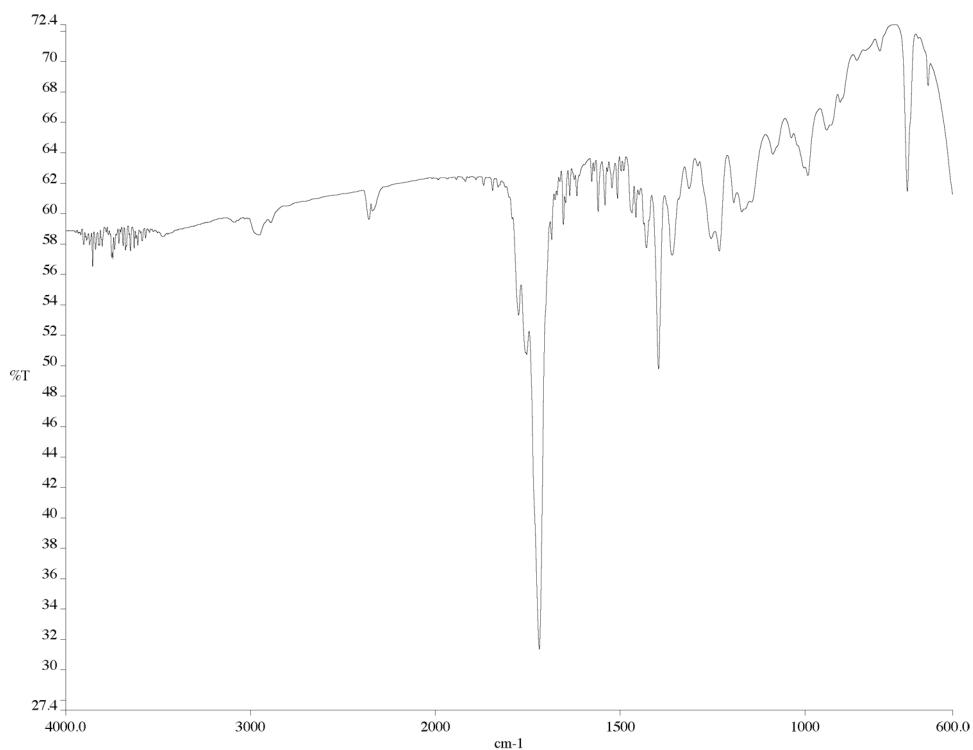


Figure A7.227 IR of compound **410** (NaCl/film)

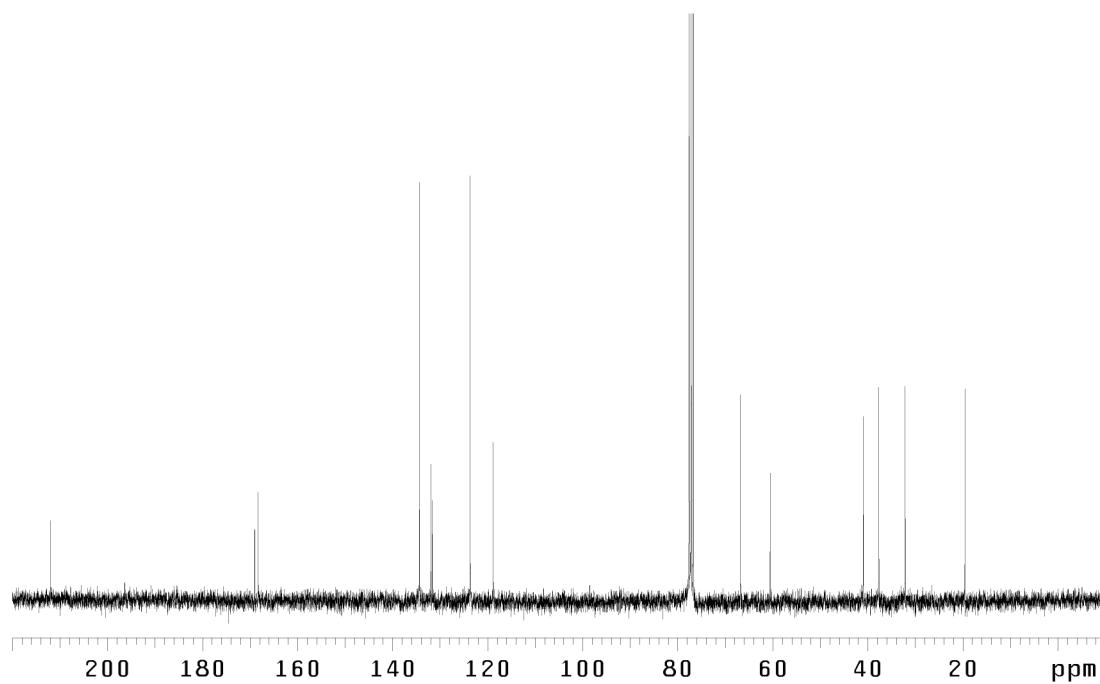


Figure A7.228 <sup>13</sup>C NMR of compound **410** (75 MHz, CDCl<sub>3</sub>)

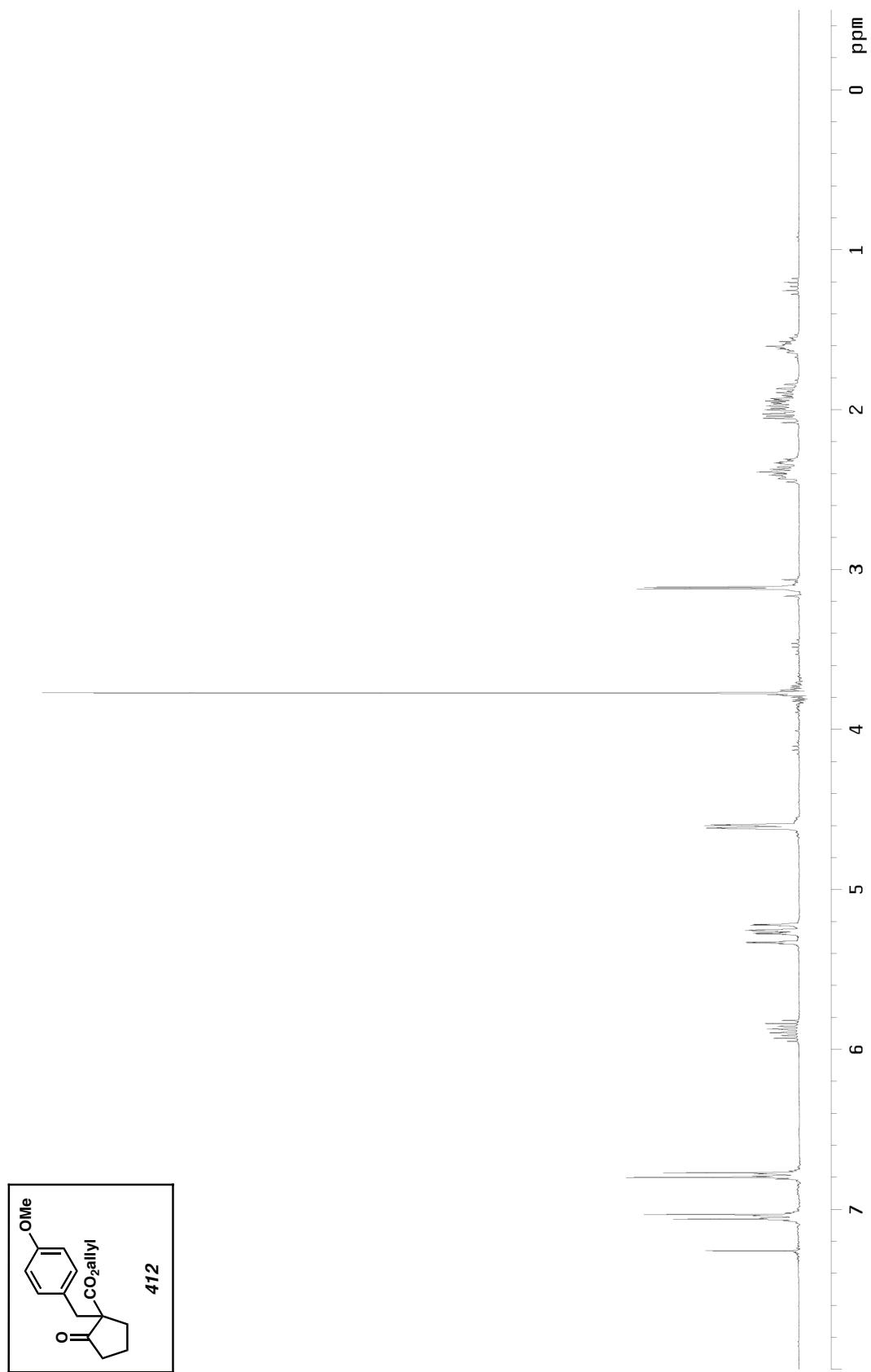


Figure A7.229  $^1\text{H}$  NMR of compound 412 (300 MHz, CDCl<sub>3</sub>)

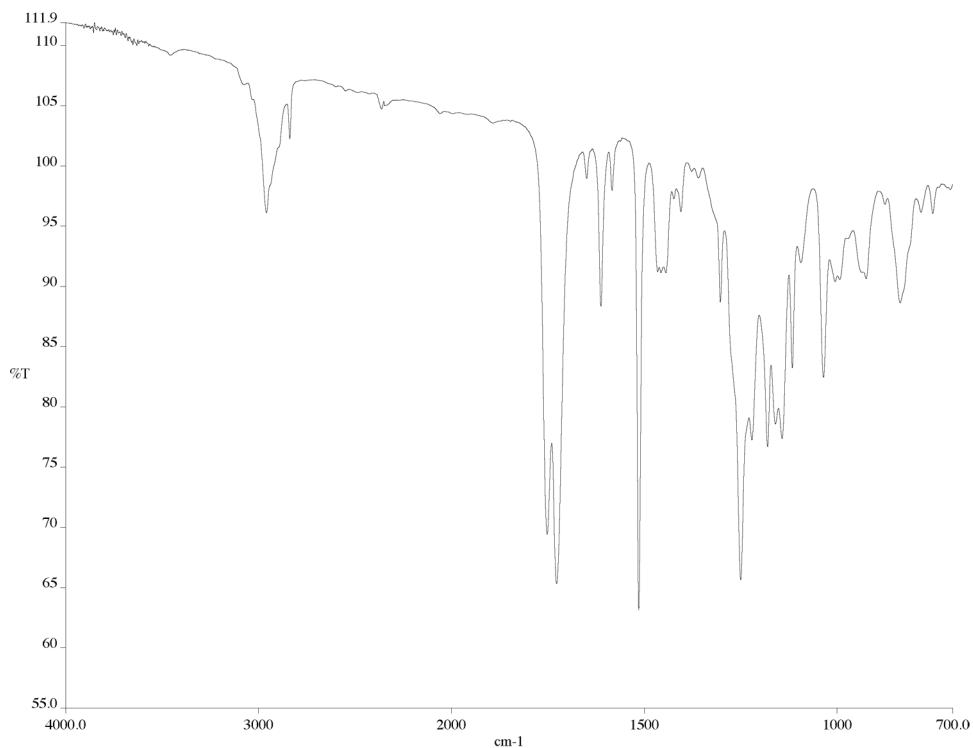


Figure A7.230 IR of compound **412** (NaCl/film)

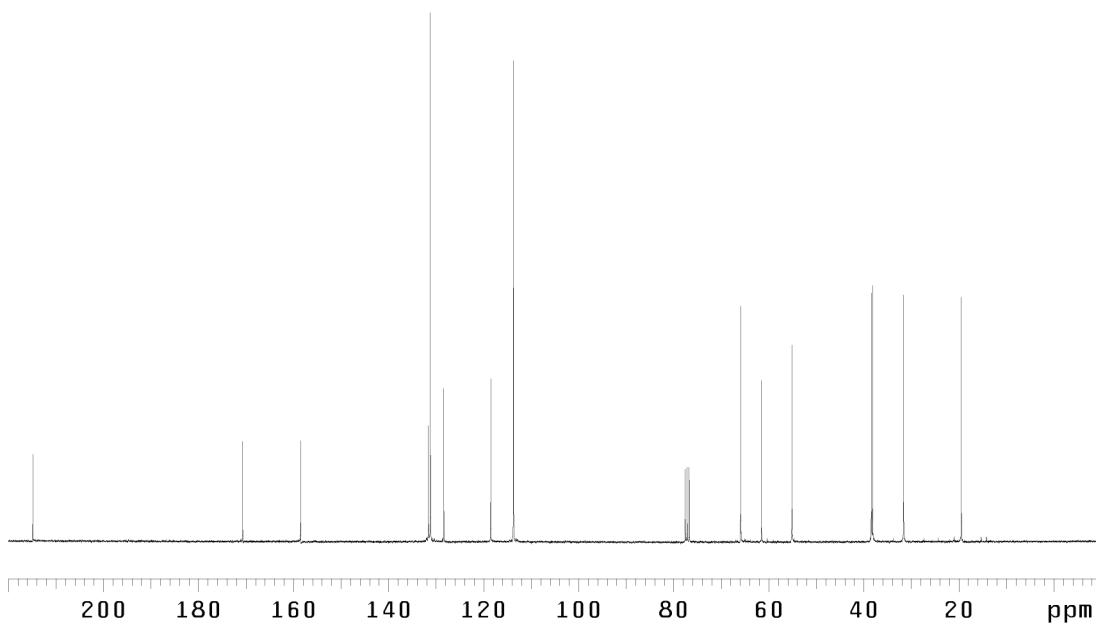


Figure A7.231  $^{13}\text{C}$  NMR of compound **412** (75 MHz,  $\text{CDCl}_3$ )

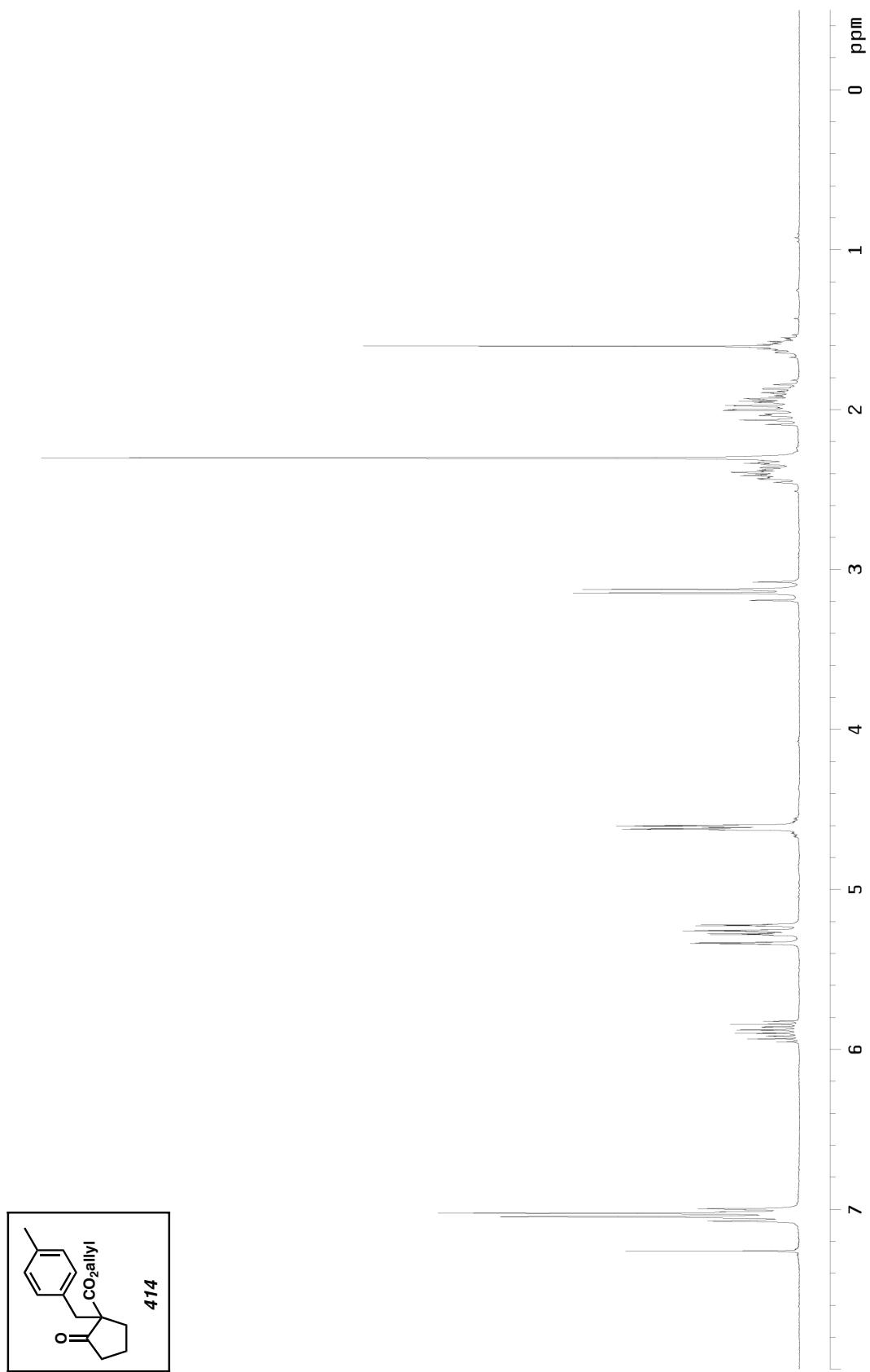


Figure A7.232  $^1\text{H}$  NMR of compound 414 (300 MHz,  $\text{CDCl}_3$ )

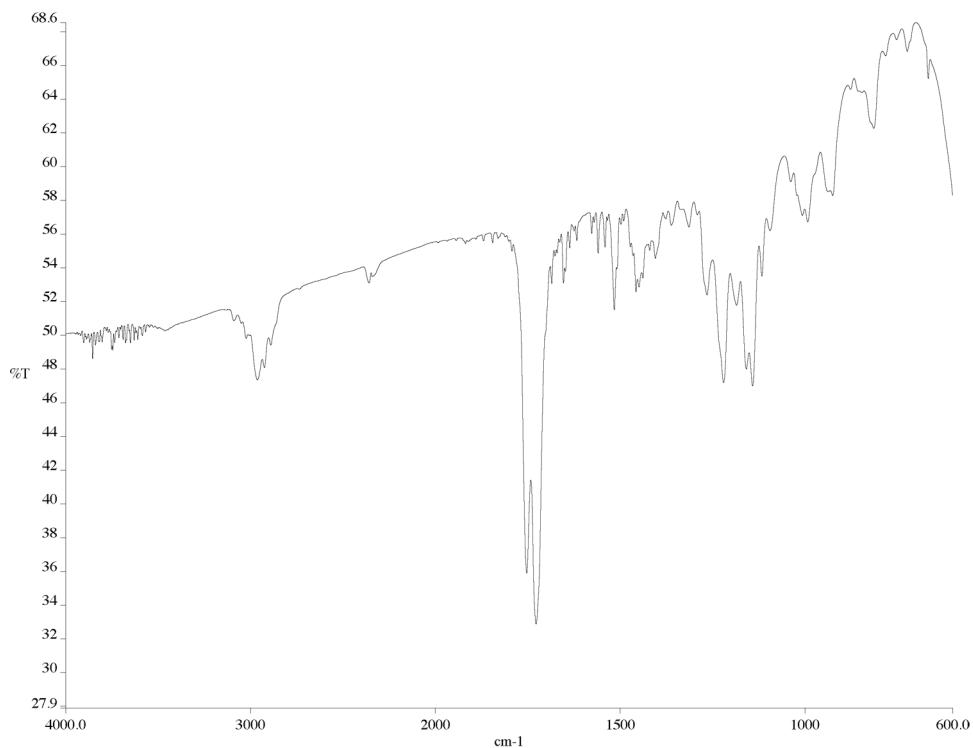


Figure A7.233 IR of compound **414** (NaCl/film)

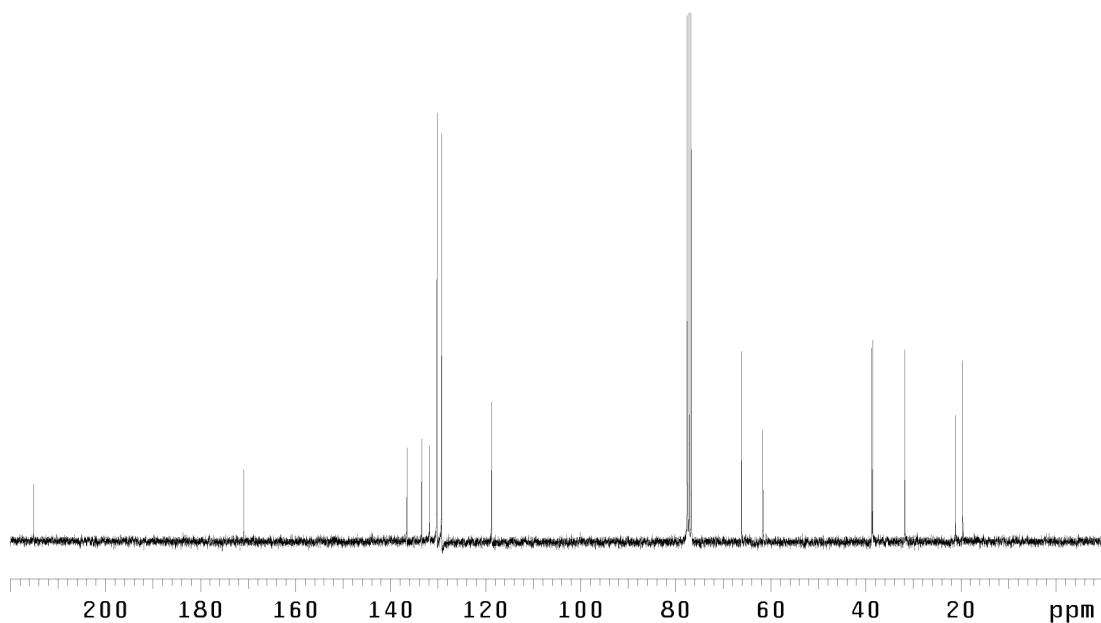


Figure A7.234 <sup>13</sup>C NMR of compound **414** (75 MHz, CDCl<sub>3</sub>)

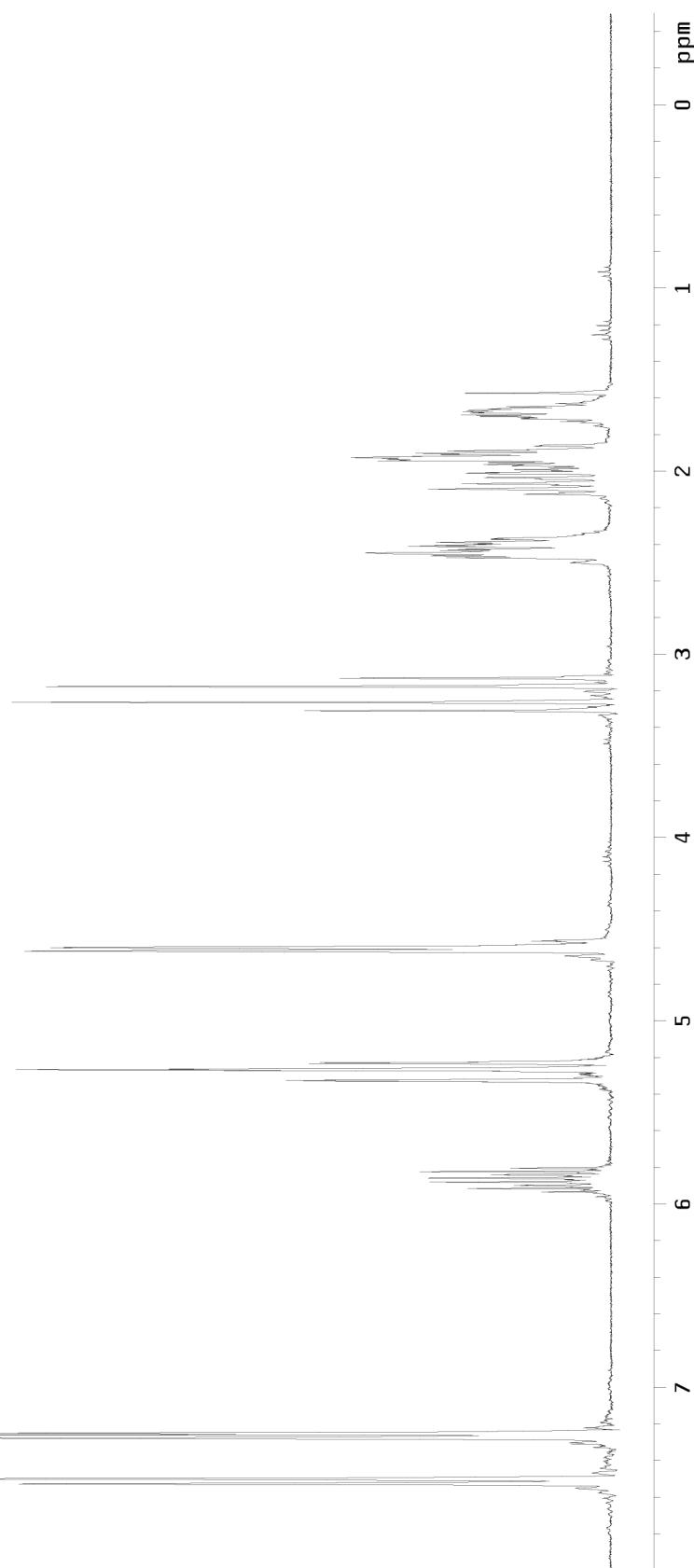
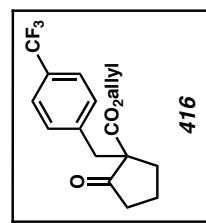


Figure A7.235  $^1\text{H}$  NMR of compound 416 (300 MHz,  $\text{CDCl}_3$ )

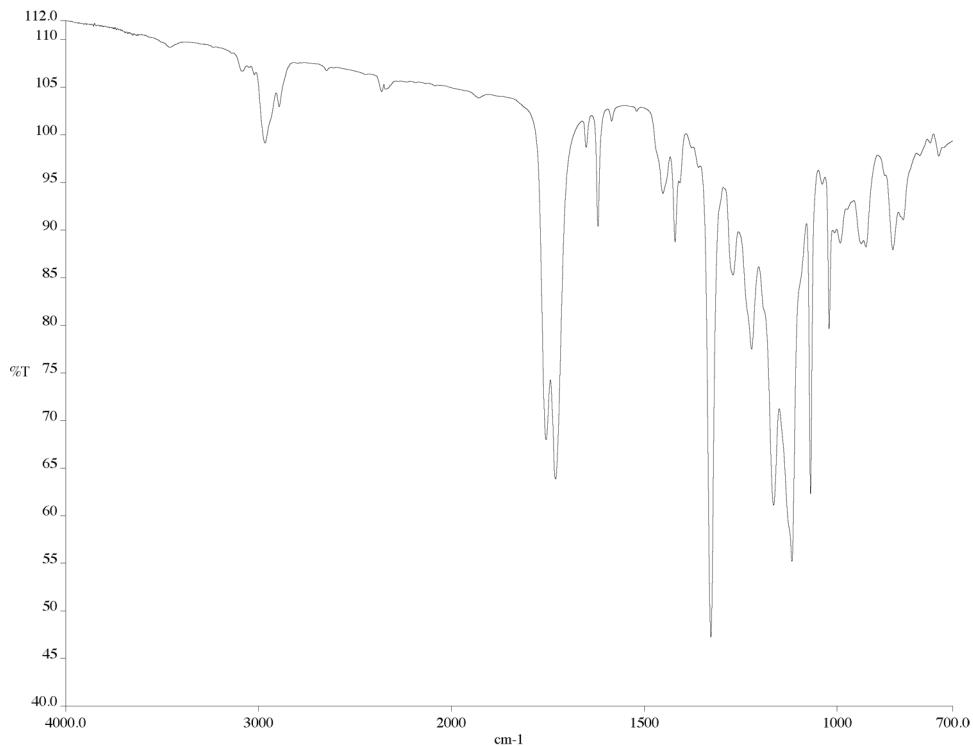


Figure A7.236 IR of compound **416** (NaCl/film)

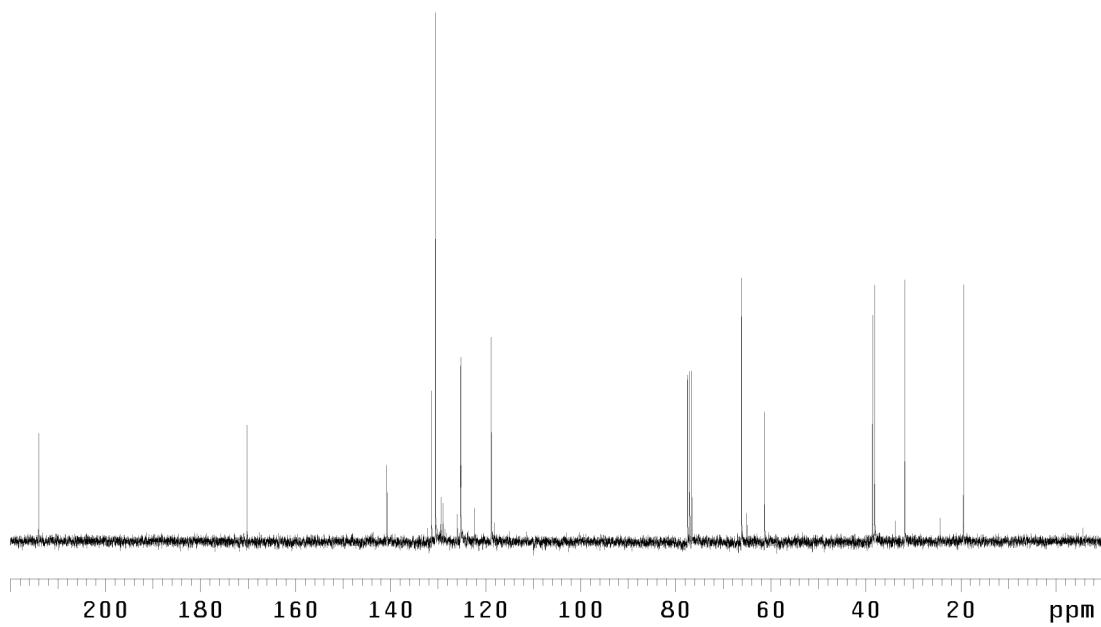
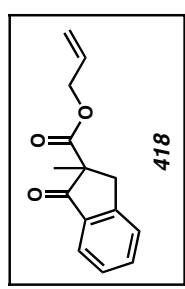


Figure A7.237 <sup>13</sup>C NMR of compound **416** (75 MHz, CDCl<sub>3</sub>)



418

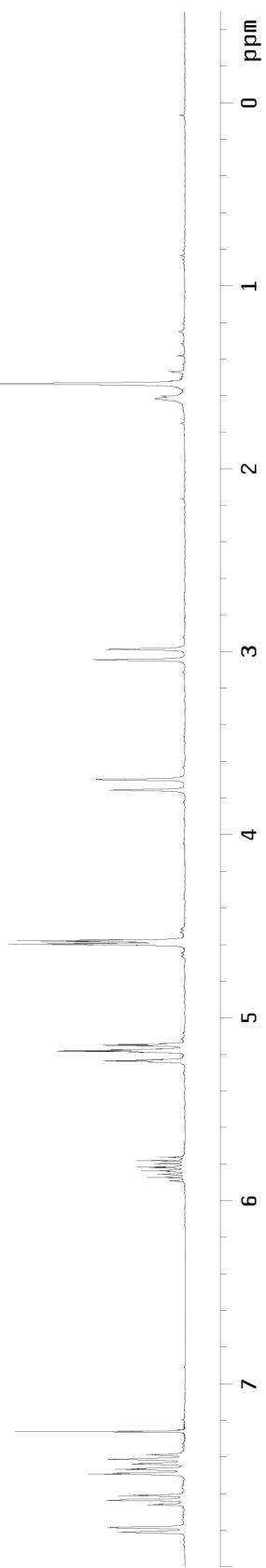


Figure A7.238 <sup>1</sup>H NMR of compound 418 (300 MHz, CDCl<sub>3</sub>)

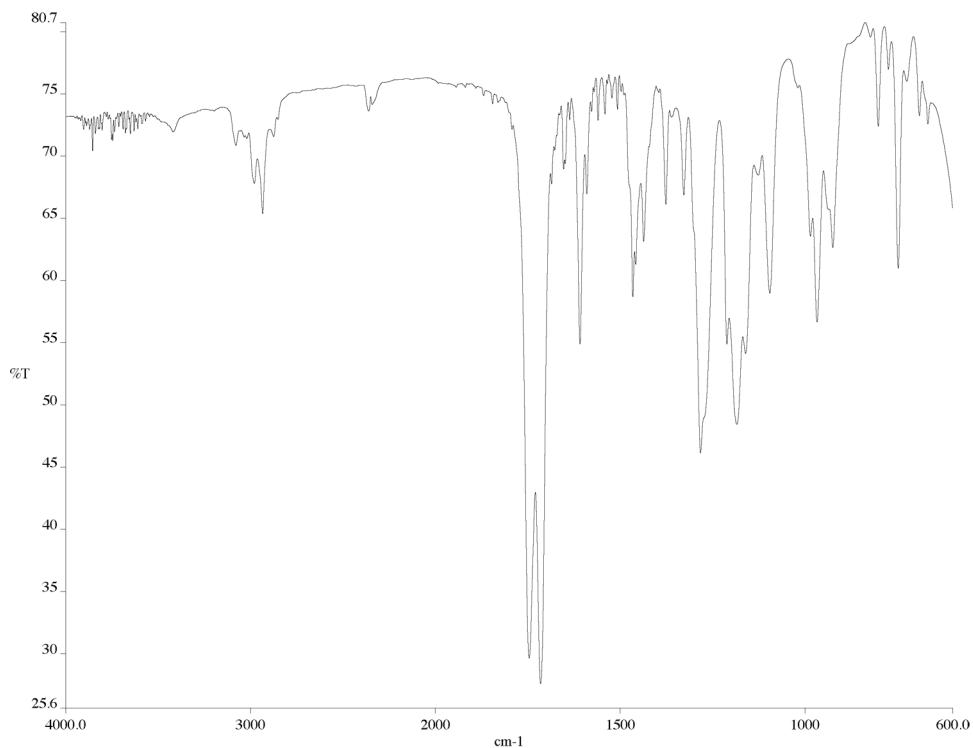


Figure A7.239 IR of compound **418** (NaCl/film)

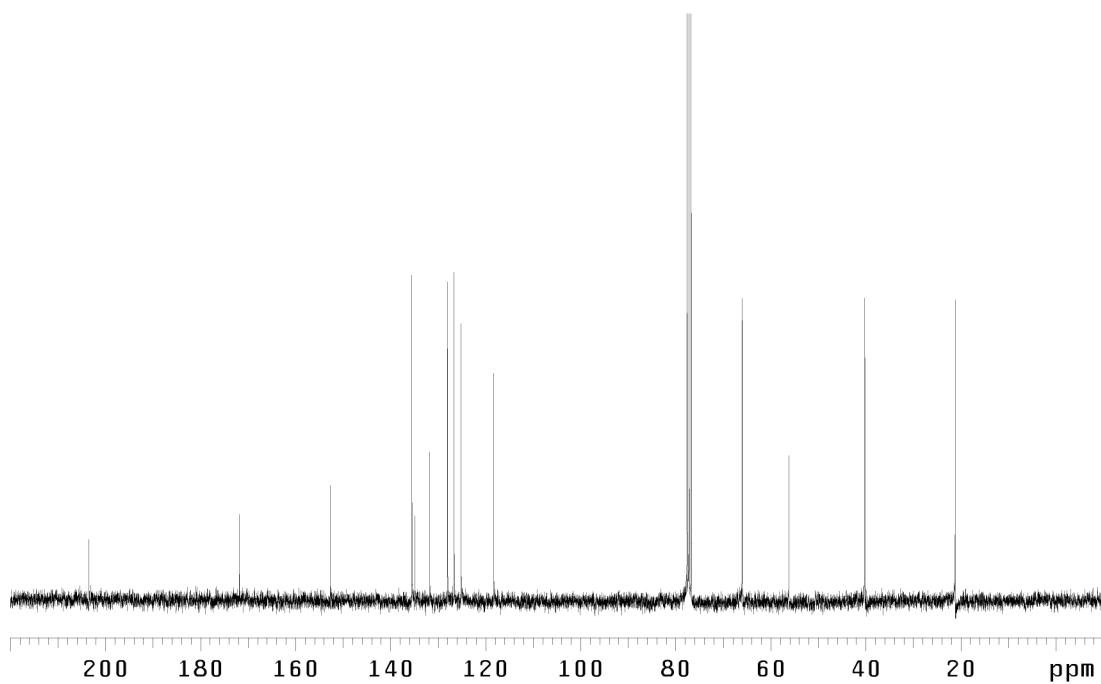


Figure A7.240 <sup>13</sup>C NMR of compound **418** (75 MHz, CDCl<sub>3</sub>)

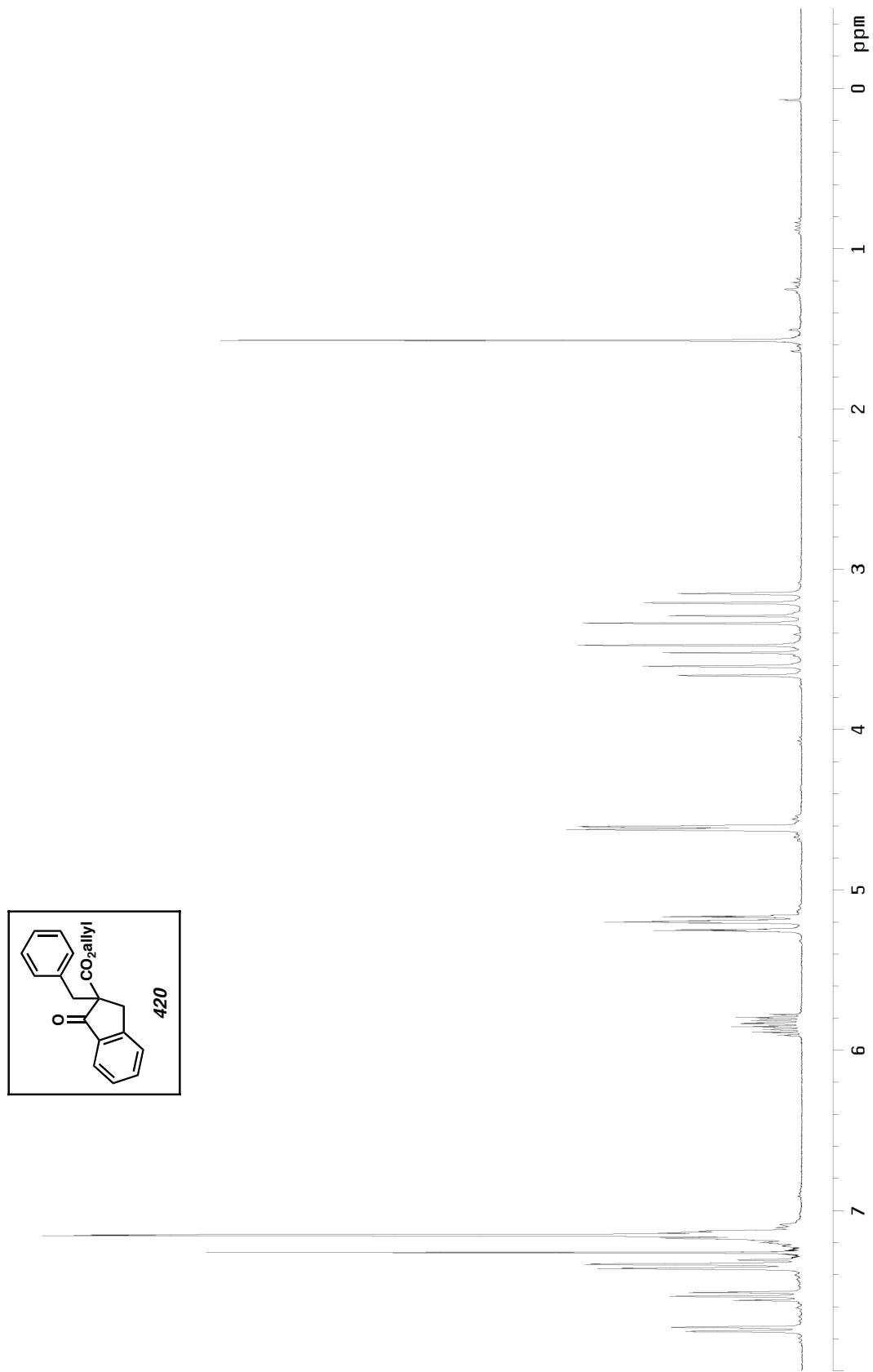


Figure A7.241  $^1\text{H}$  NMR of compound 420 (300 MHz,  $\text{CDCl}_3$ )

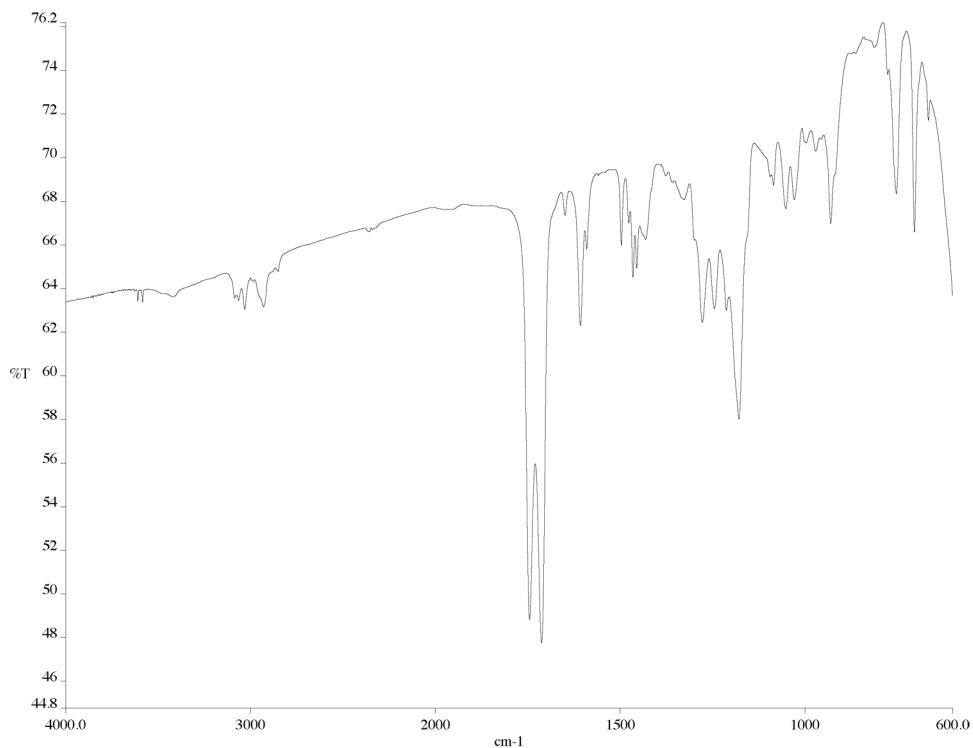


Figure A7.242 IR of compound **420** (NaCl/film)

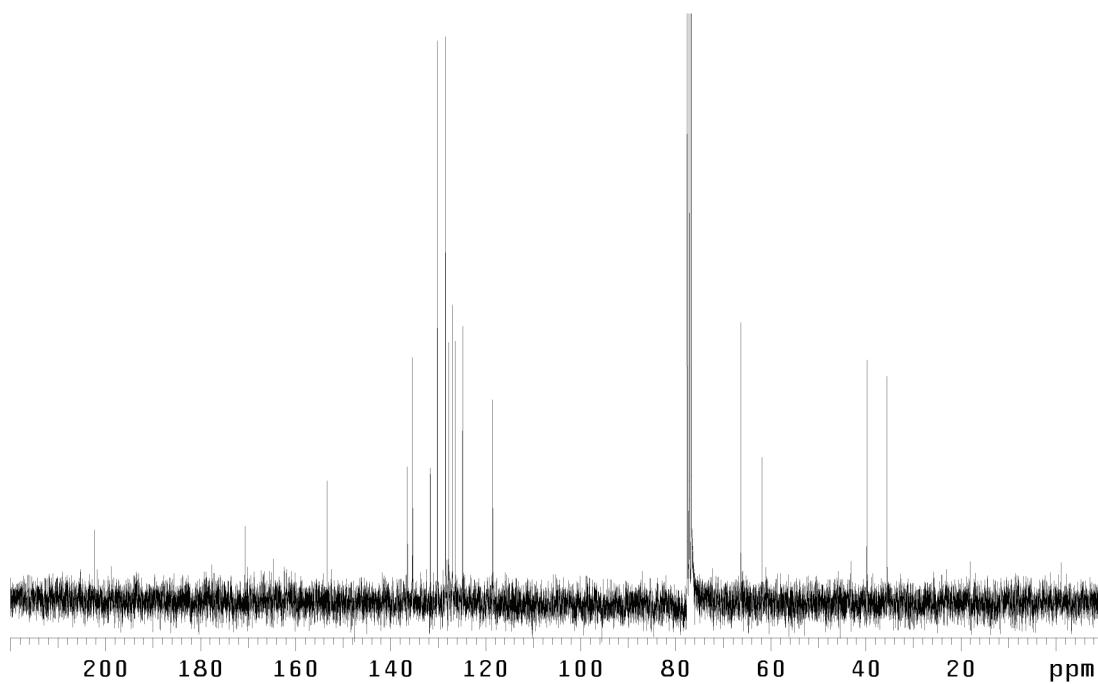


Figure A7.243 <sup>13</sup>C NMR of compound **420** (75 MHz, CDCl<sub>3</sub>)

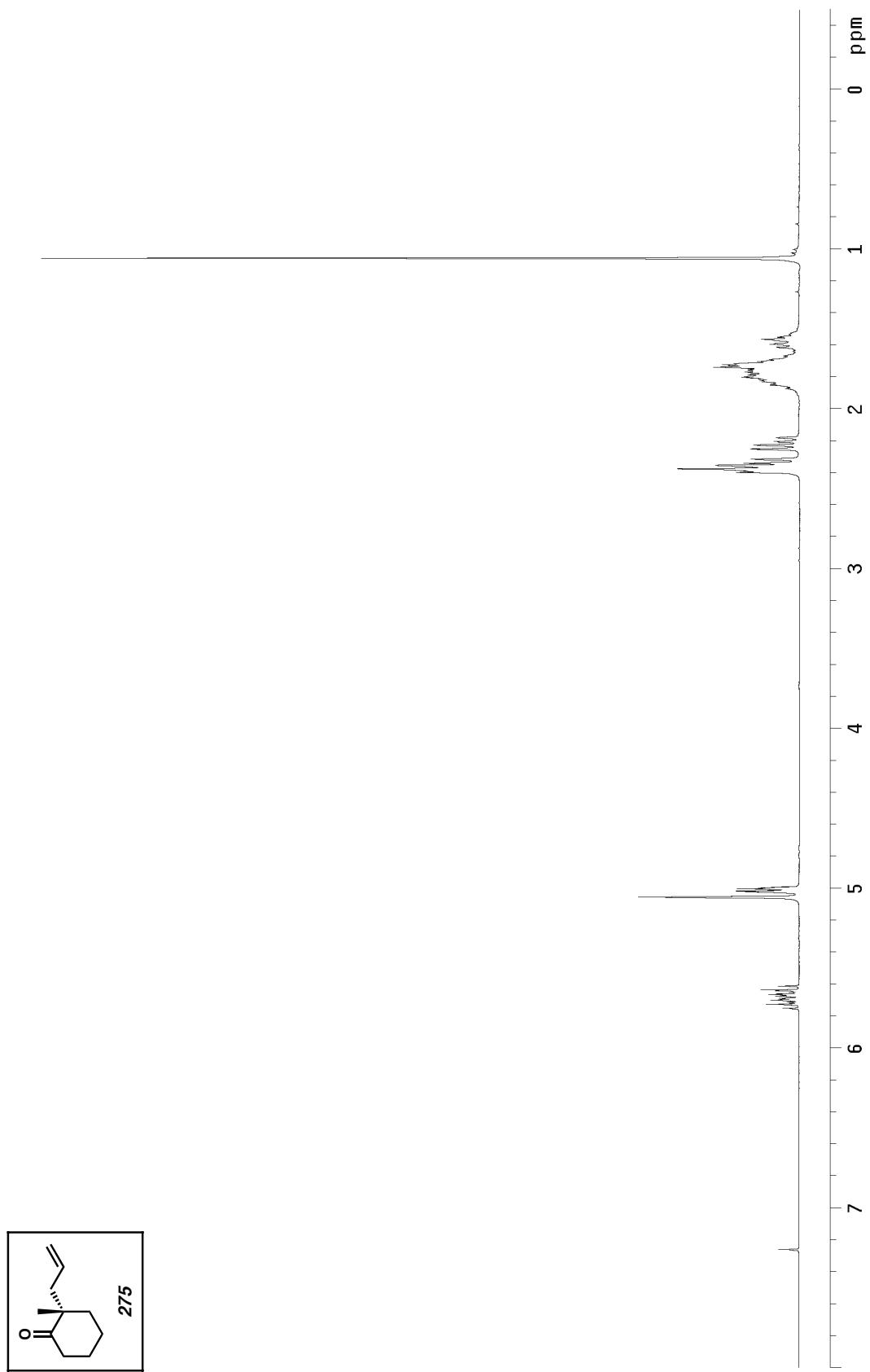
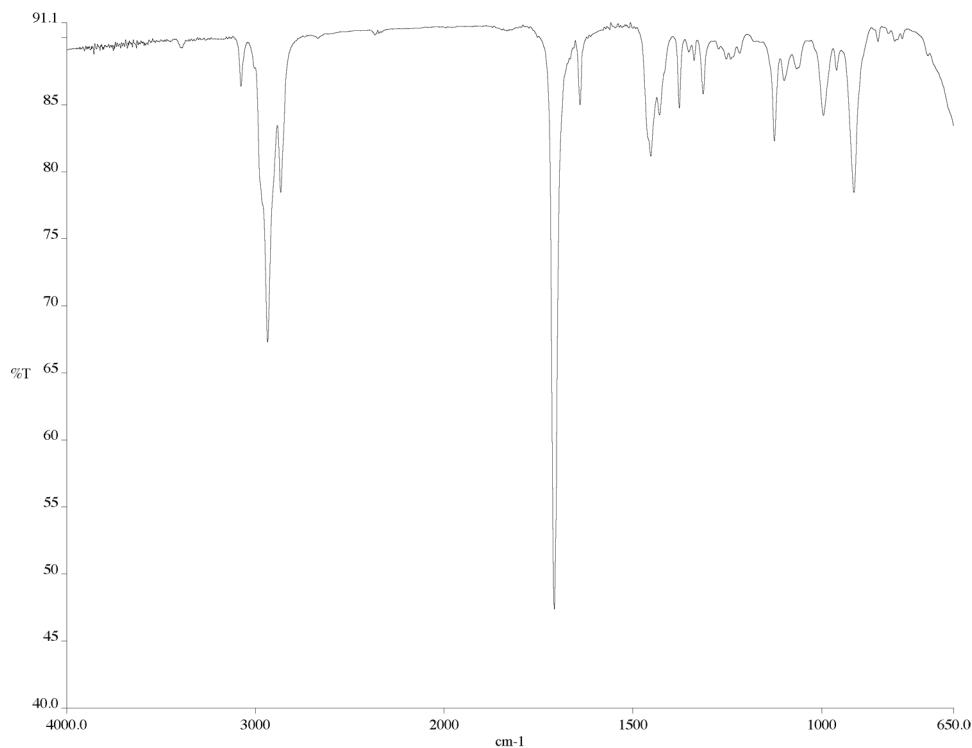
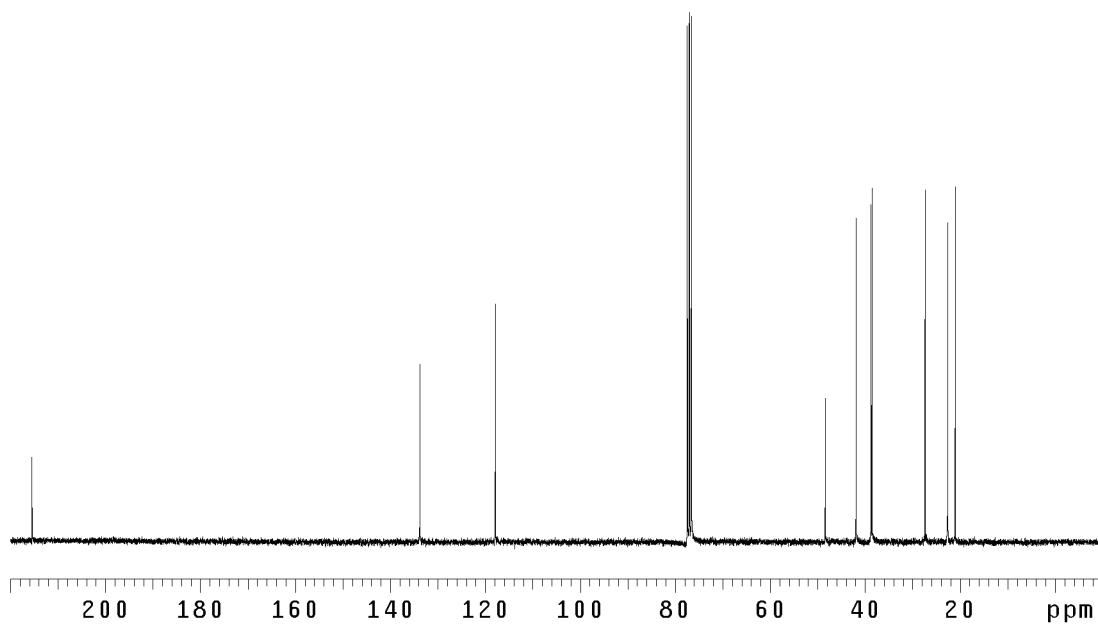


Figure A7.244 <sup>1</sup>H NMR of compound 275 (300 MHz, CDCl<sub>3</sub>)

Figure A7.245 IR of compound **275** (NaCl/film)Figure A7.246  $^{13}\text{C}$  NMR of compound **275** (75 MHz,  $\text{CDCl}_3$ )

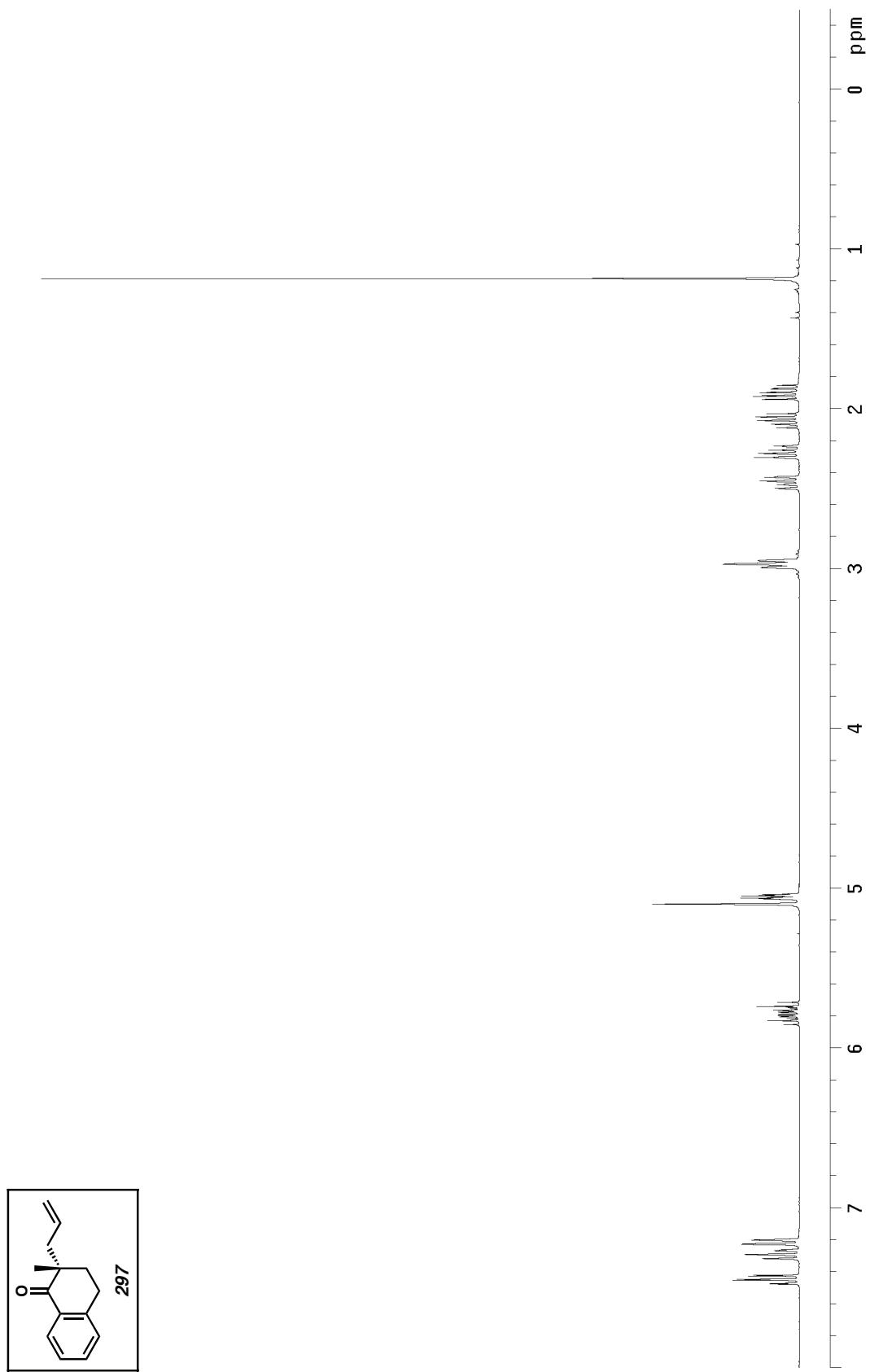


Figure A7.247  $^1\text{H}$  NMR of compound 297 (300 MHz,  $\text{CDCl}_3$ )

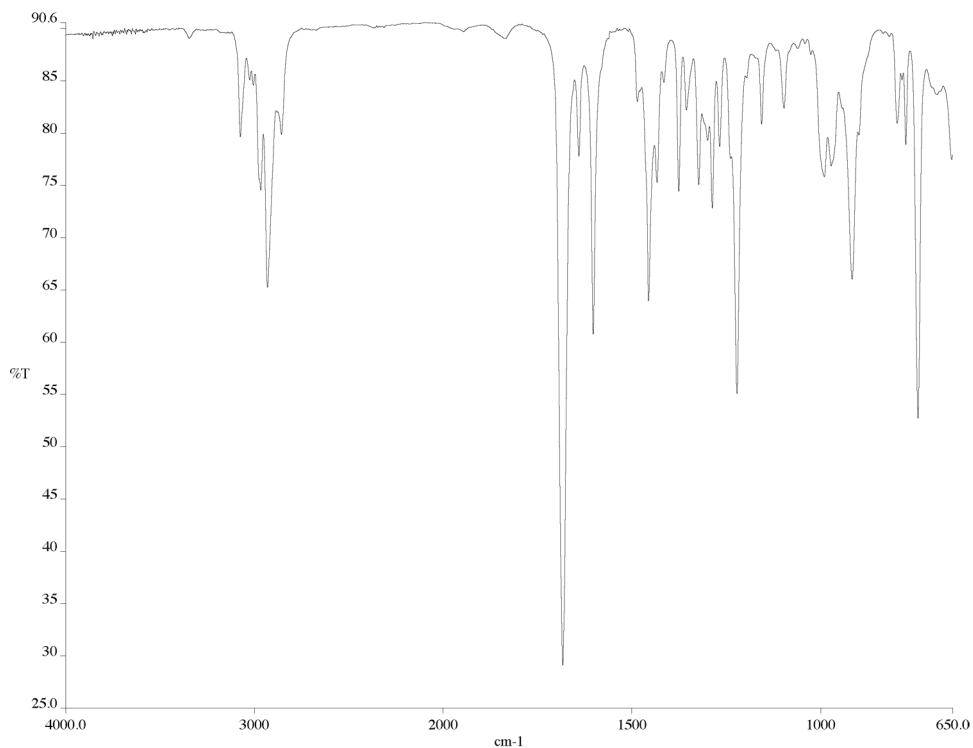


Figure A7.248 IR of compound **297** (NaCl/film)

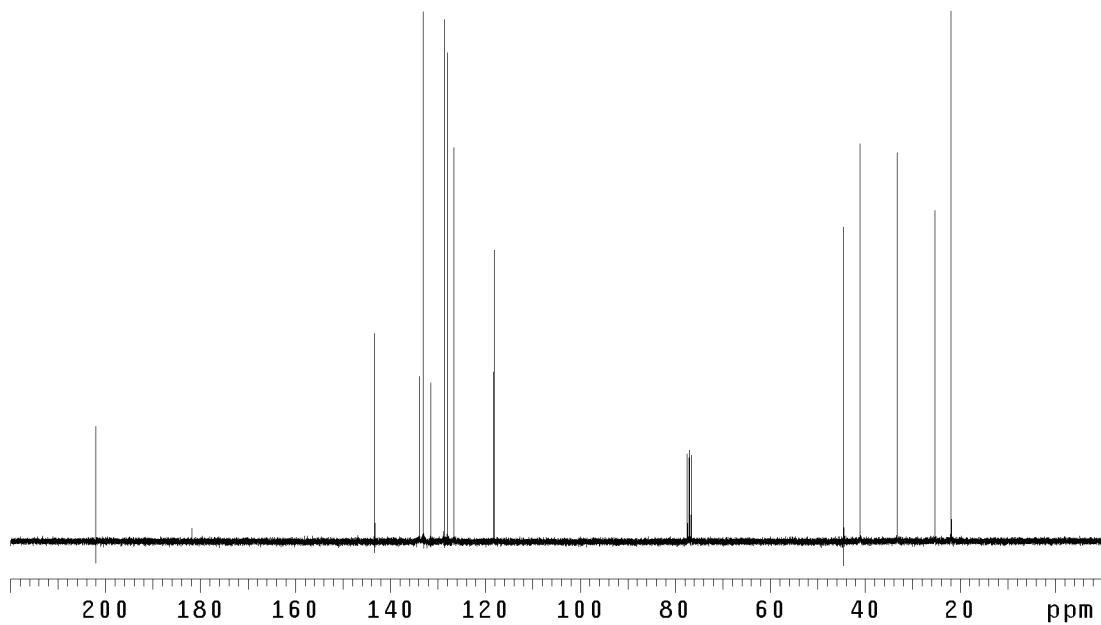


Figure A7.249  $^{13}\text{C}$  NMR of compound **297** (75 MHz,  $\text{CDCl}_3$ )

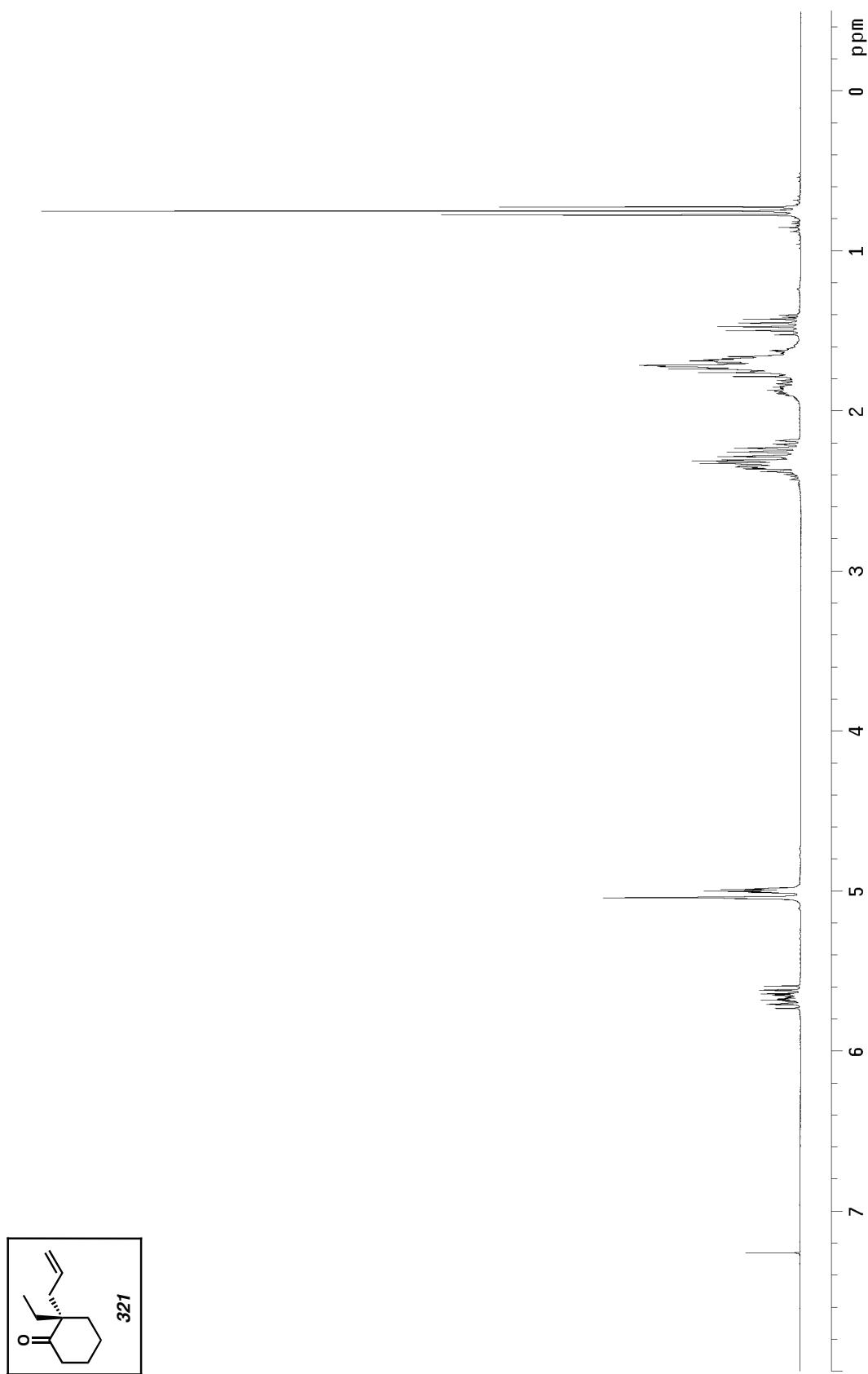
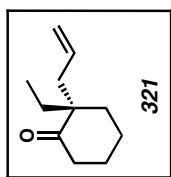


Figure A7.250  ${}^1\text{H}$  NMR of compound 321 (300 MHz,  $\text{CDCl}_3$ )



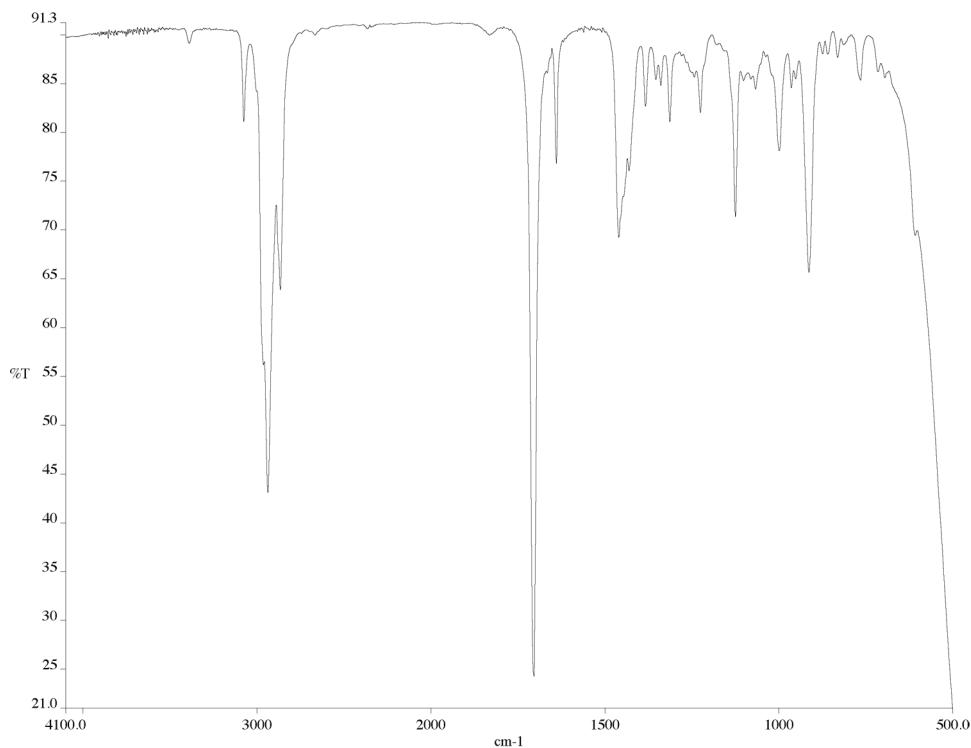


Figure A7.251 IR of compound **321** (NaCl/film)

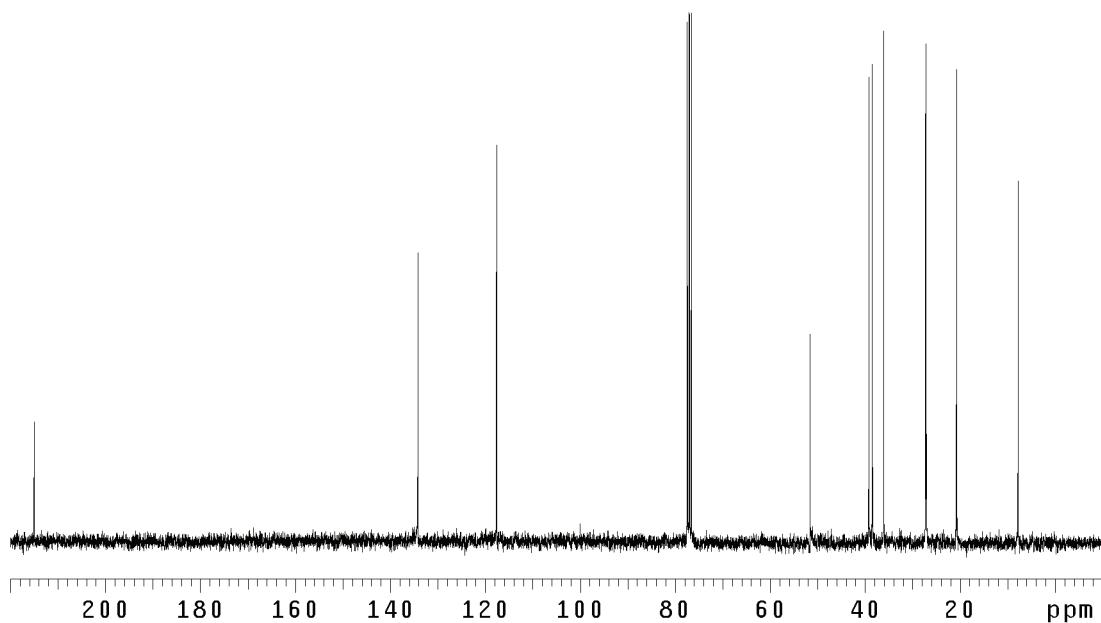


Figure A7.252 <sup>13</sup>C NMR of compound **321** (75 MHz, CDCl<sub>3</sub>)

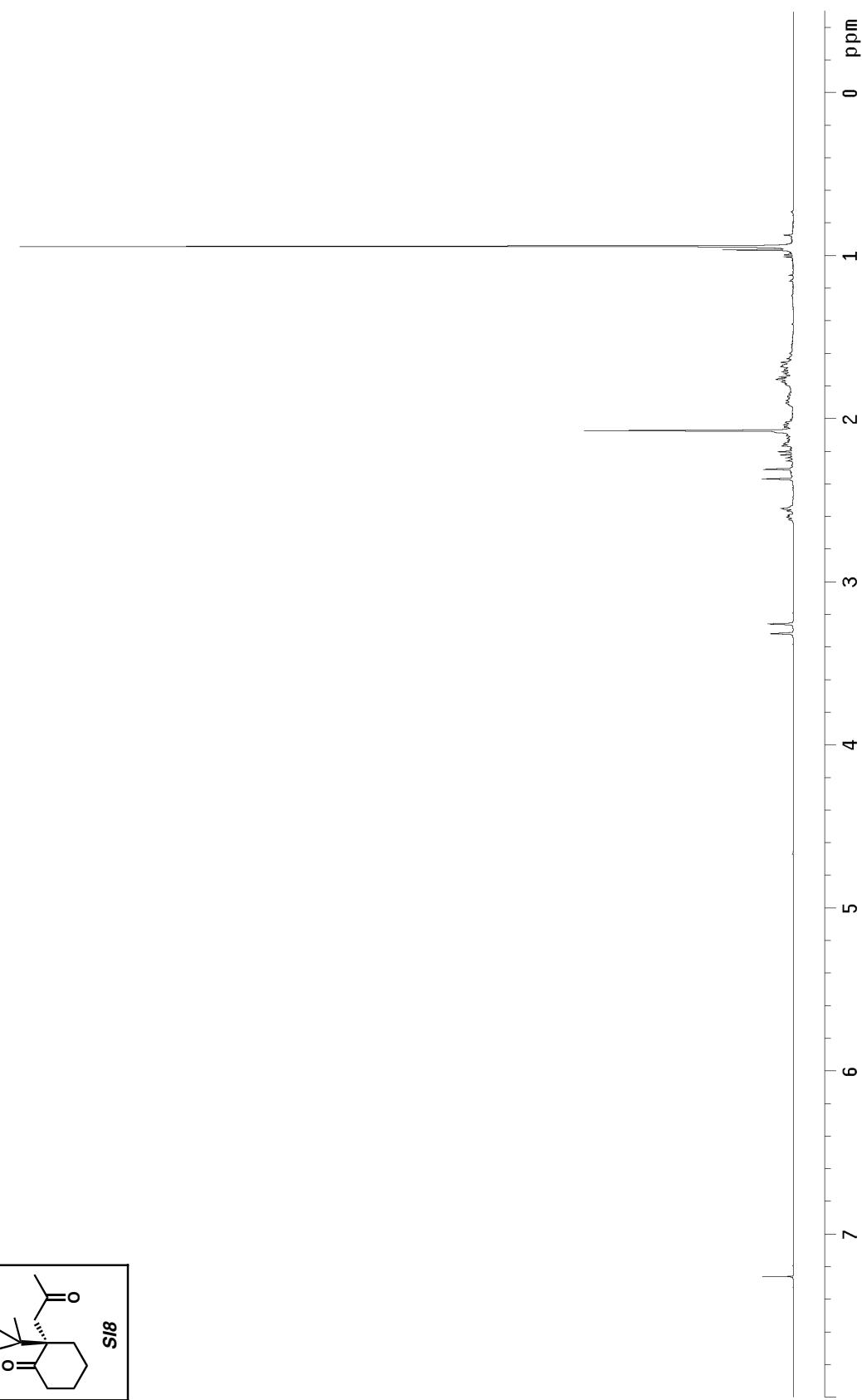
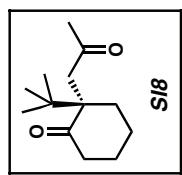


Figure A7.253 <sup>1</sup>H NMR of compound SI8 (300 MHz, CDCl<sub>3</sub>)



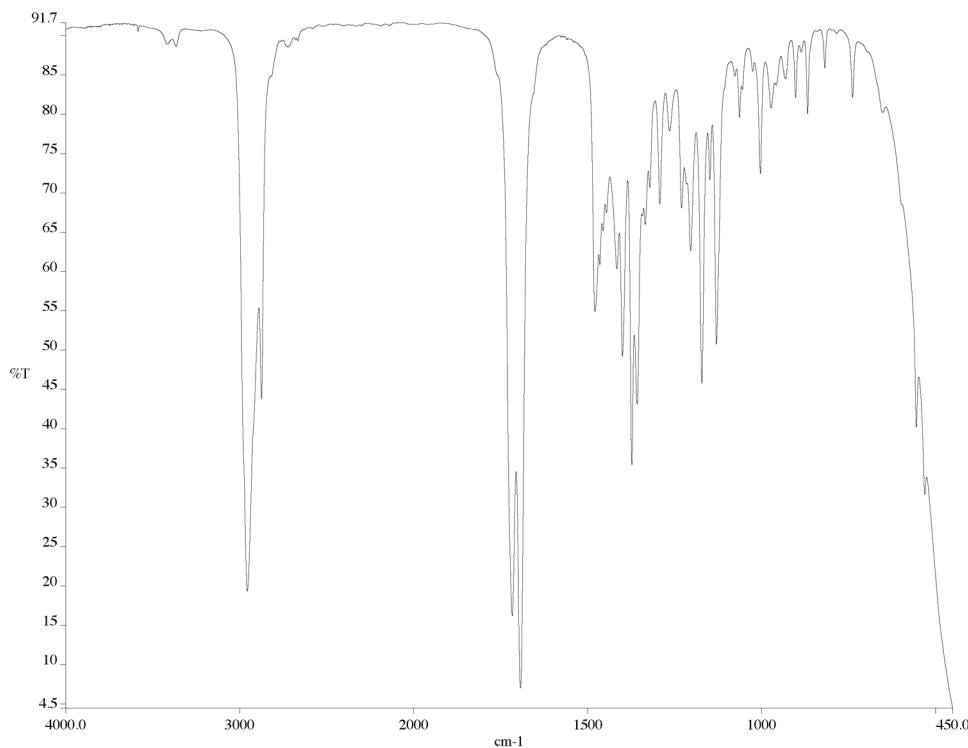


Figure A7.254 IR of compound **SI8** (NaCl/film)

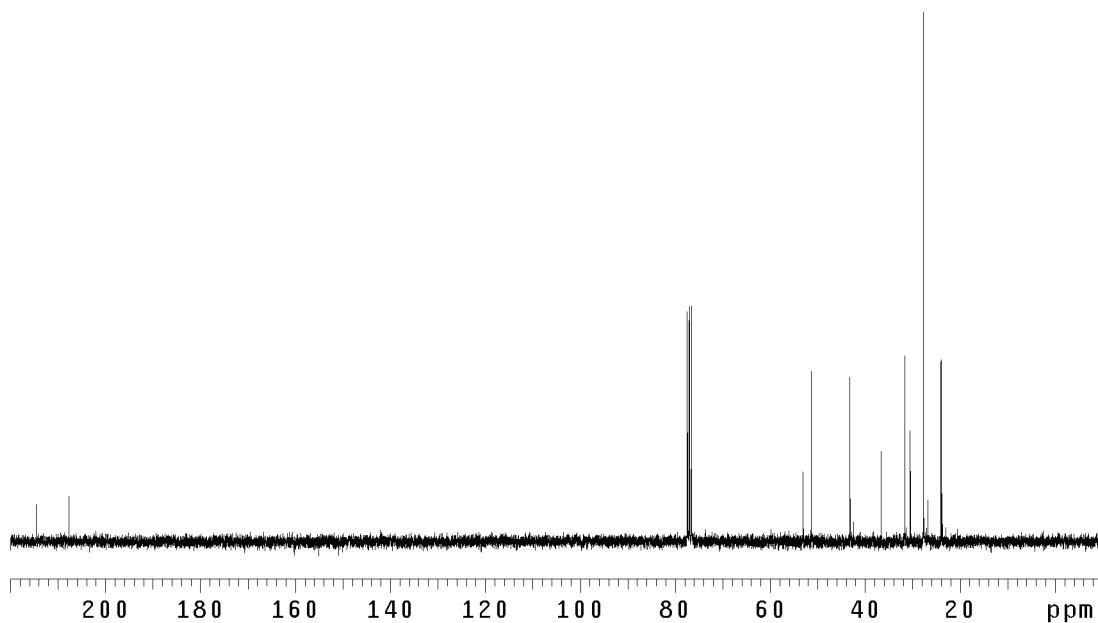


Figure A7.255 <sup>13</sup>C NMR of compound **SI8** (75 MHz, CDCl<sub>3</sub>)

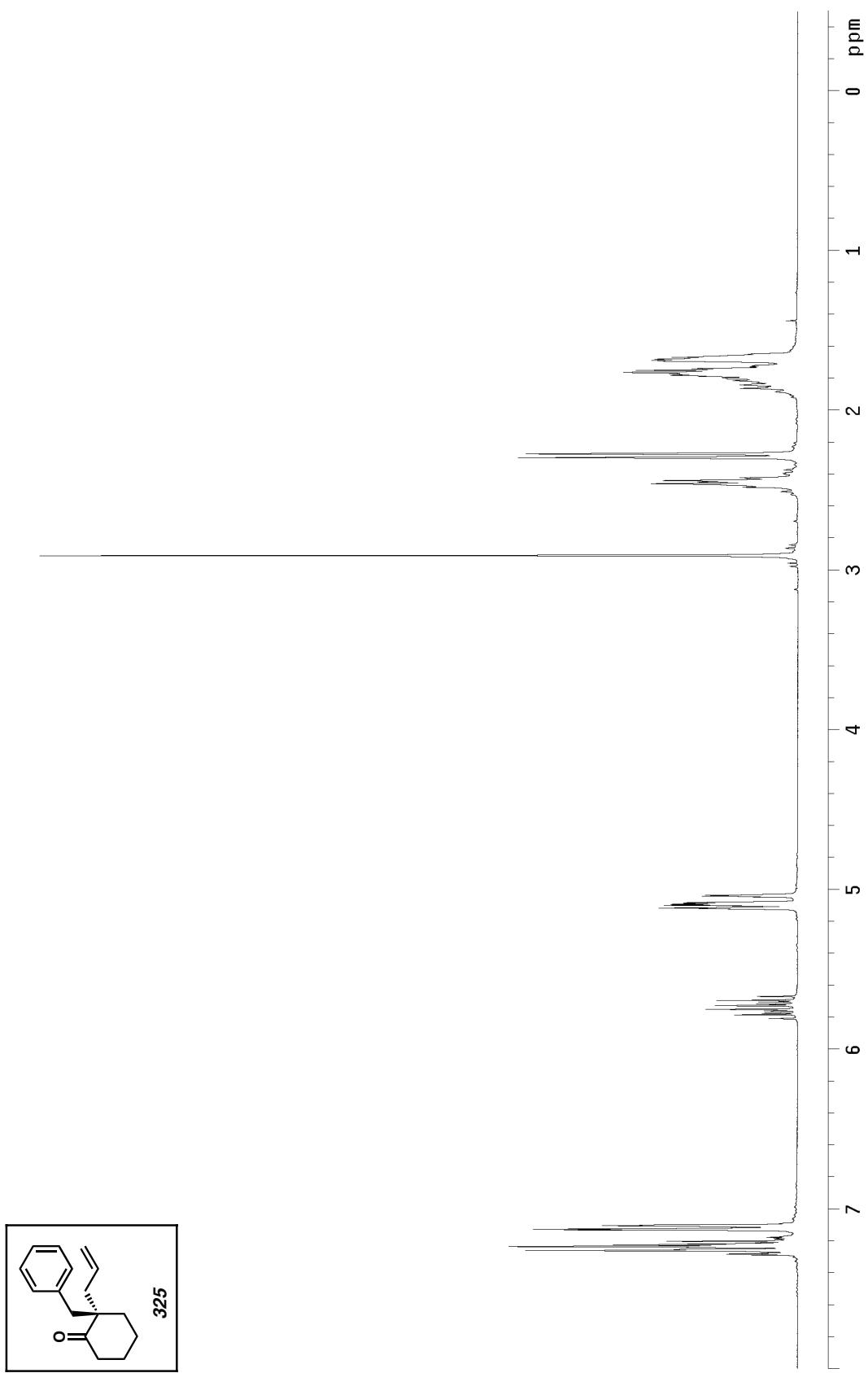


Figure A7.256  $^1\text{H}$  NMR of compound 325 (300 MHz,  $\text{CDCl}_3$ )

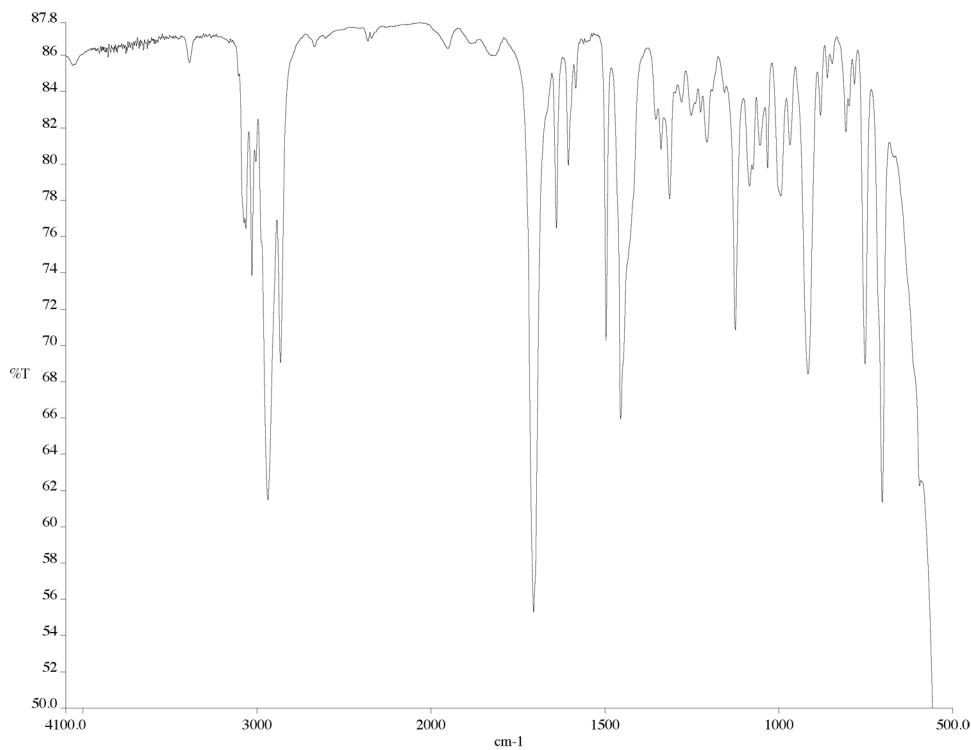


Figure A7.257 IR of compound **325** (NaCl/film)

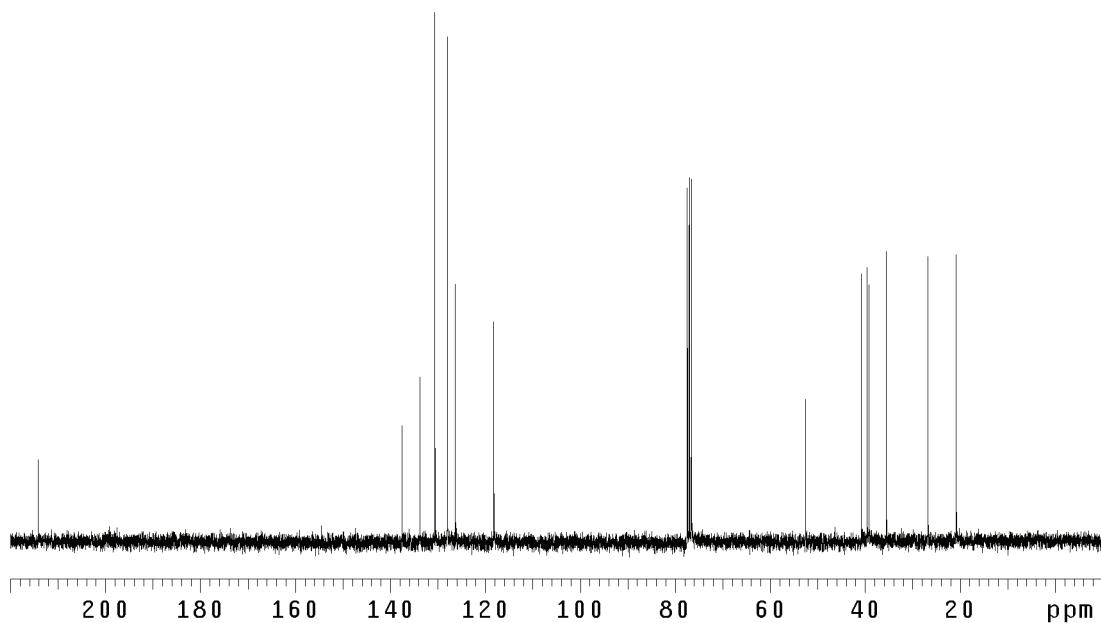


Figure A7.158 <sup>13</sup>C NMR of compound **325** (75 MHz, CDCl<sub>3</sub>)

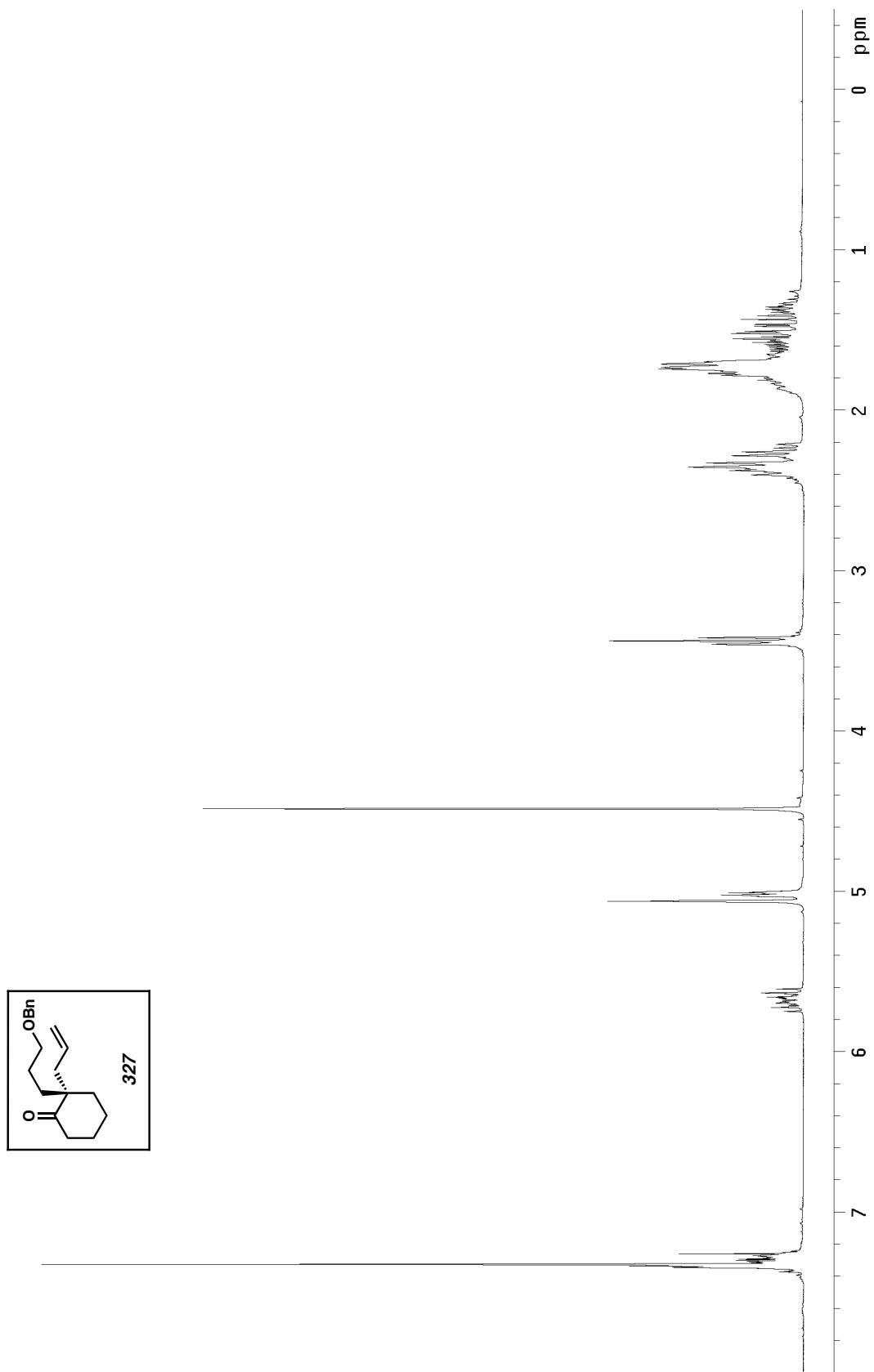


Figure A7.259  $^1\text{H}$  NMR of compound 327 (300 MHz,  $\text{CDCl}_3$ )

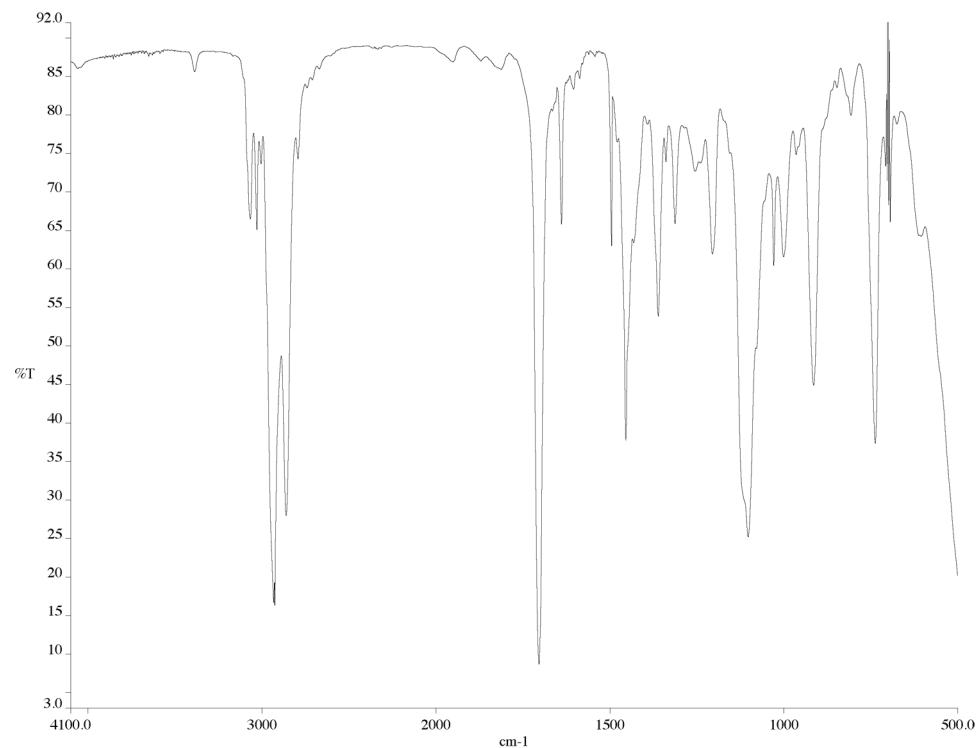


Figure A7.260 IR of compound **327** (NaCl/film)

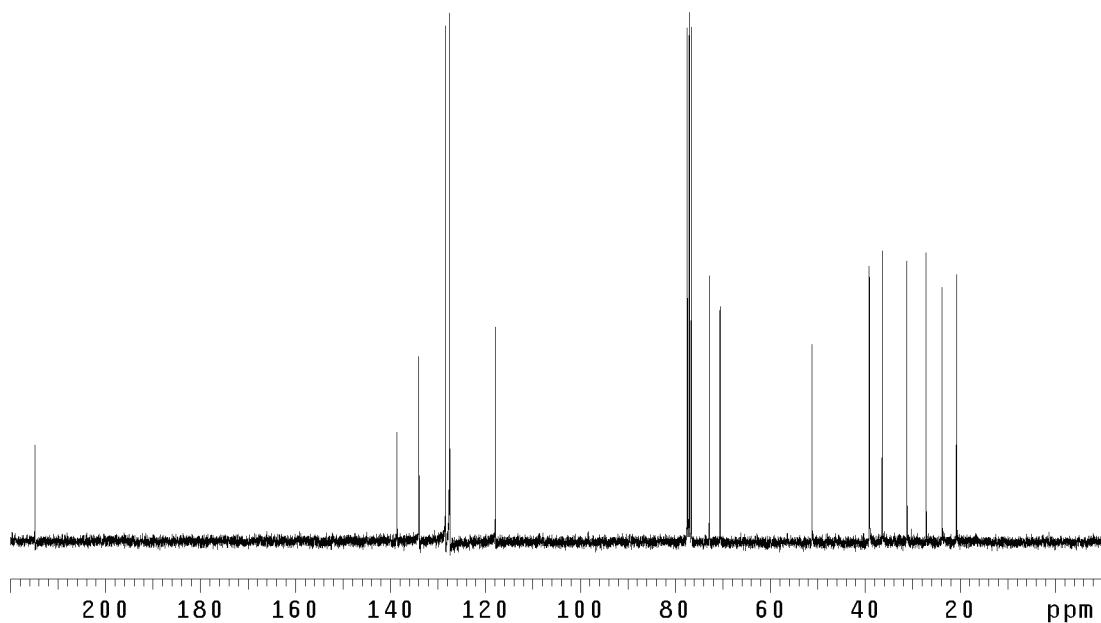


Figure A7.261 <sup>13</sup>C NMR of compound **327** (75 MHz, CDCl<sub>3</sub>)

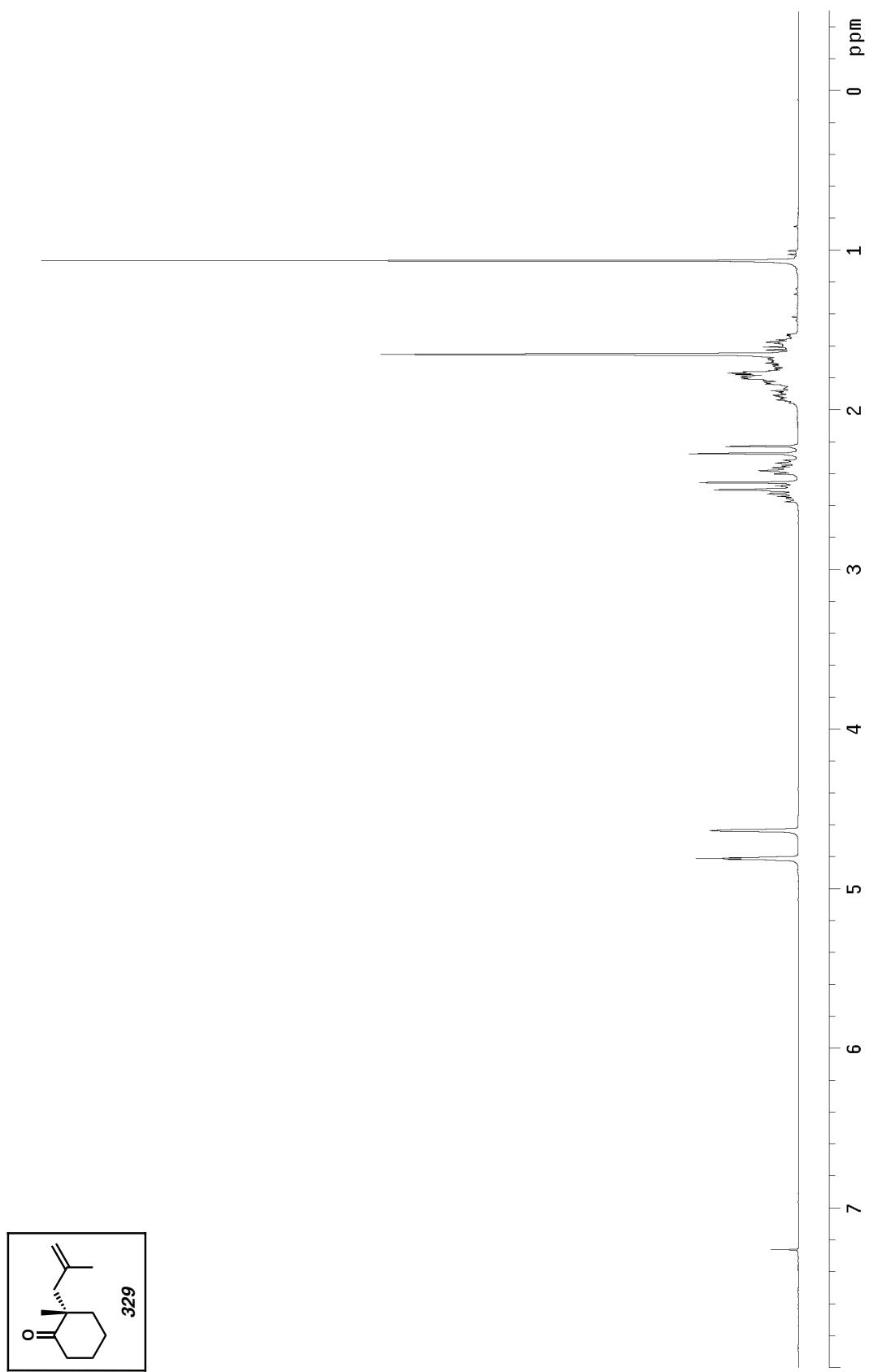


Figure A7.262  $^1\text{H}$  NMR of compound 329 (300 MHz,  $\text{CDCl}_3$ )

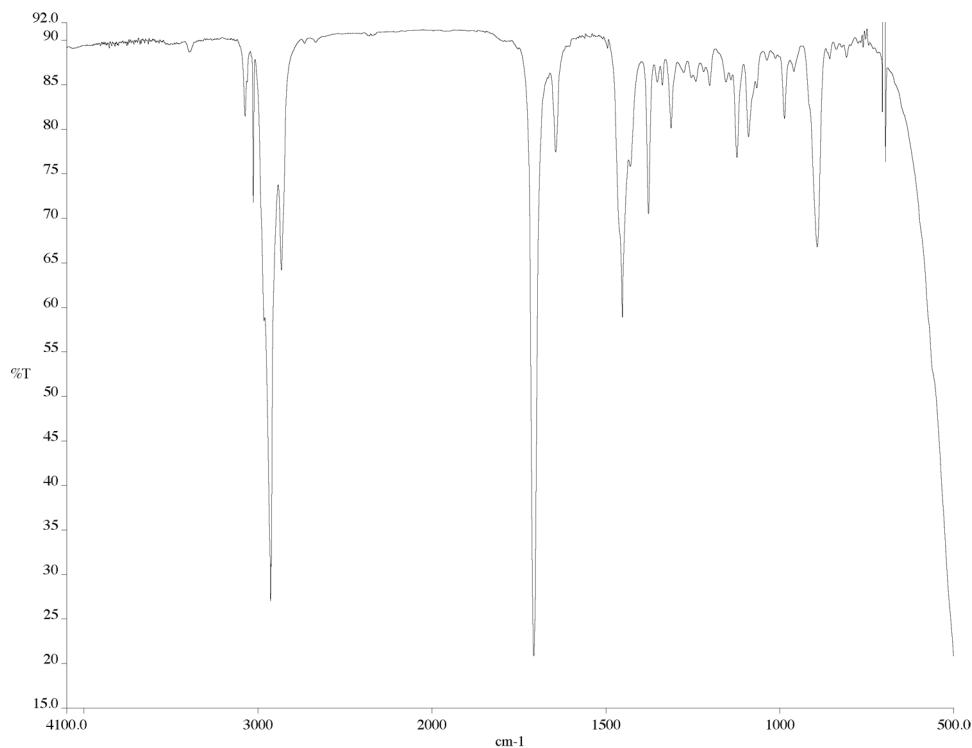


Figure A7.263 IR of compound **329** (NaCl/film)

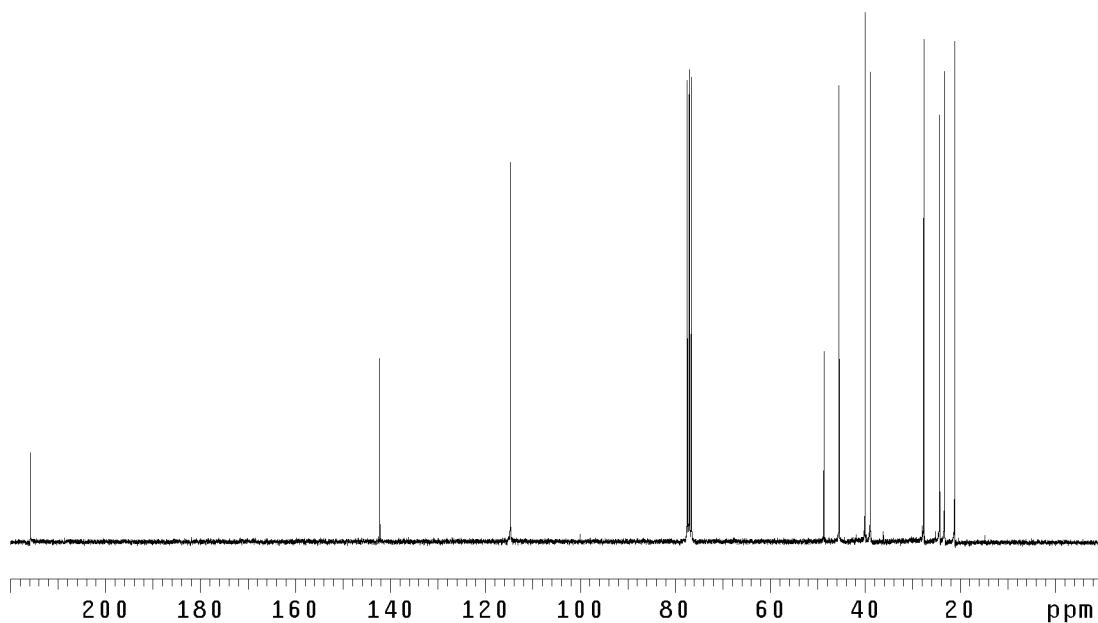


Figure A7.264 <sup>13</sup>C NMR of compound **329** (75 MHz, CDCl<sub>3</sub>)

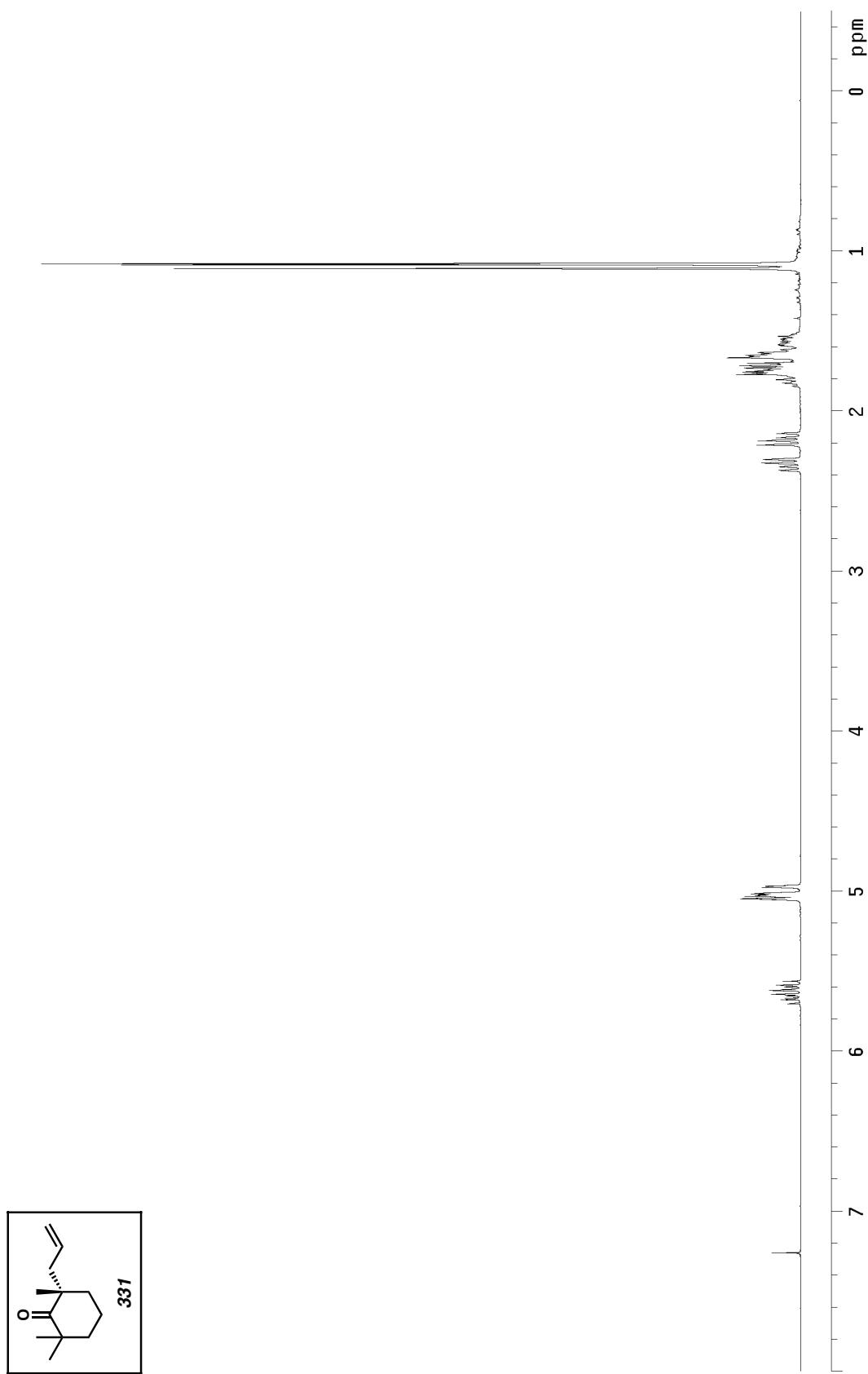


Figure A7.265  $^1\text{H}$  NMR of compound 331 (300 MHz,  $\text{CDCl}_3$ )

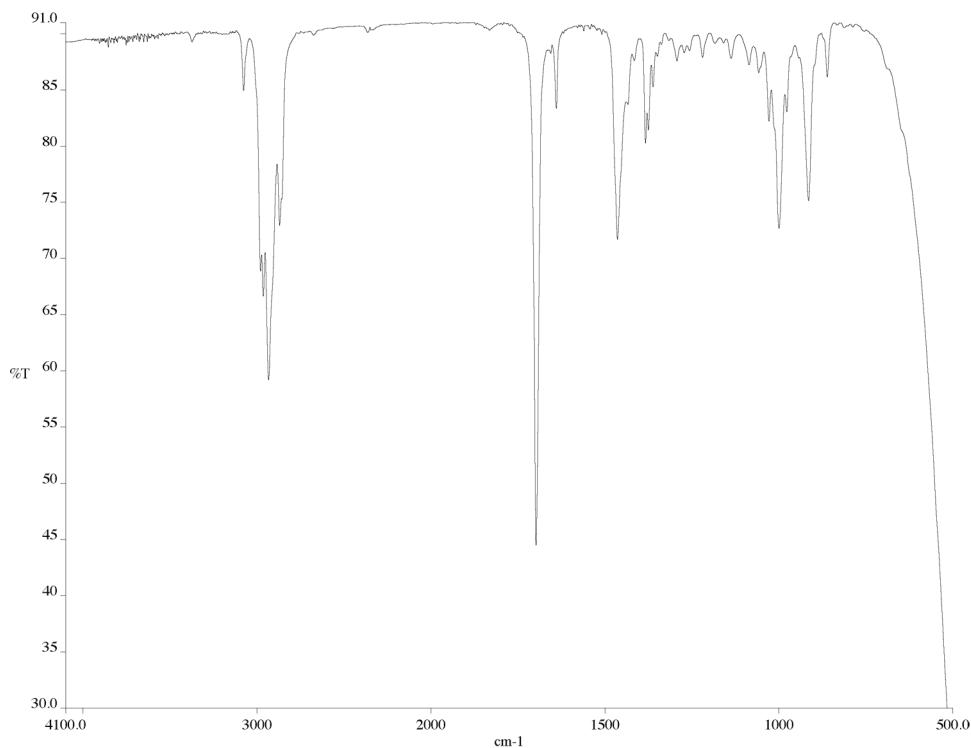


Figure A7.266 IR of compound **331** (NaCl/film)

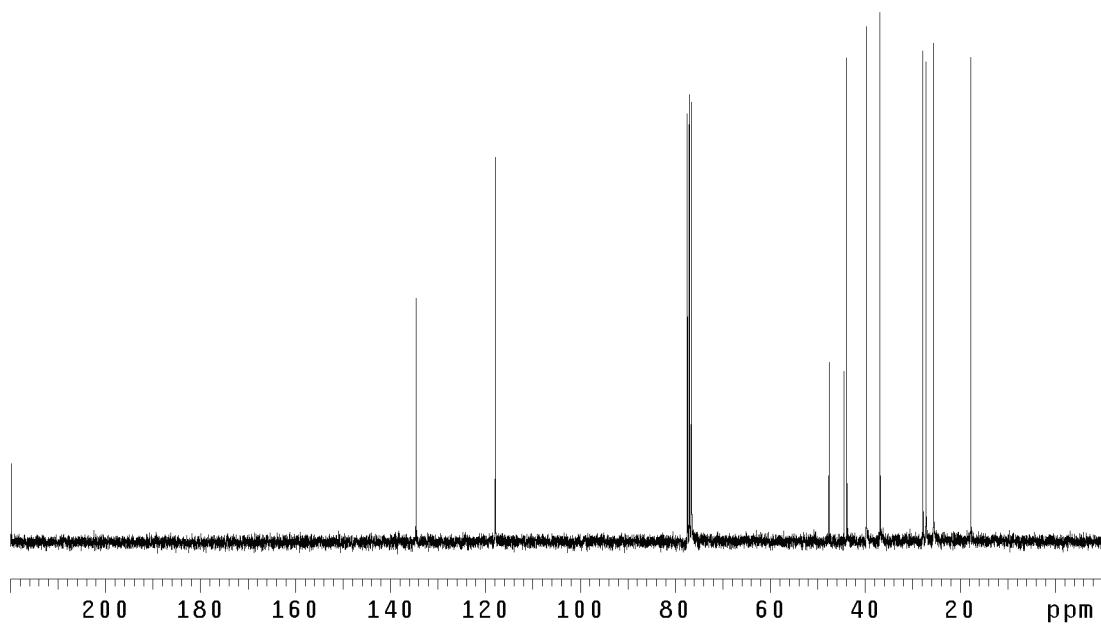


Figure A7.267 <sup>13</sup>C NMR of compound **331** (75 MHz, CDCl<sub>3</sub>)

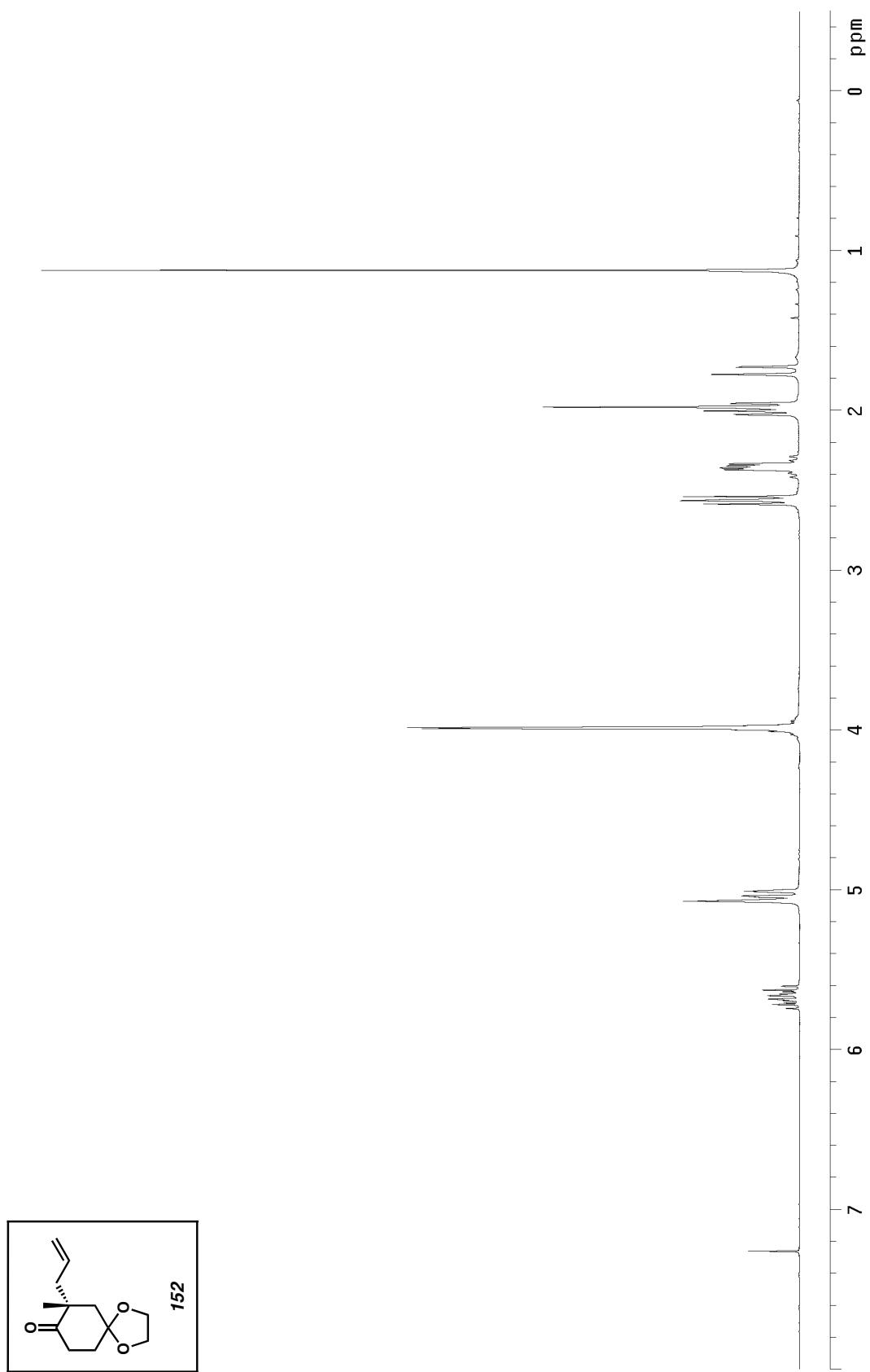


Figure A7.268  $^1\text{H}$  NMR of compound **152** (300 MHz, CDCl<sub>3</sub>)

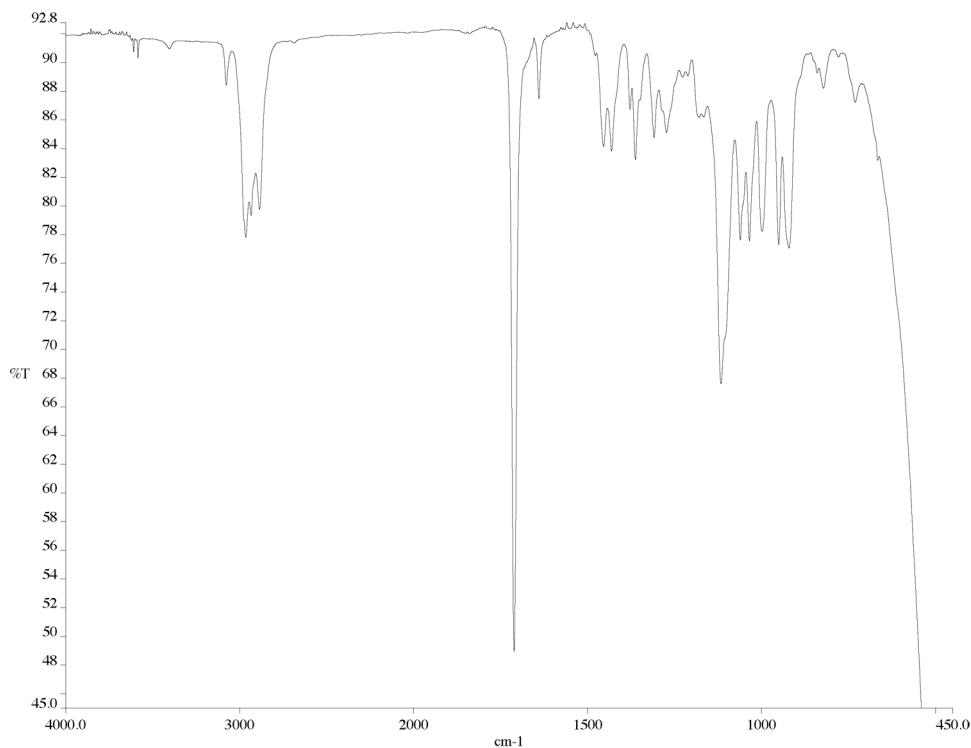


Figure A7.269 IR of compound **152** (NaCl/film)

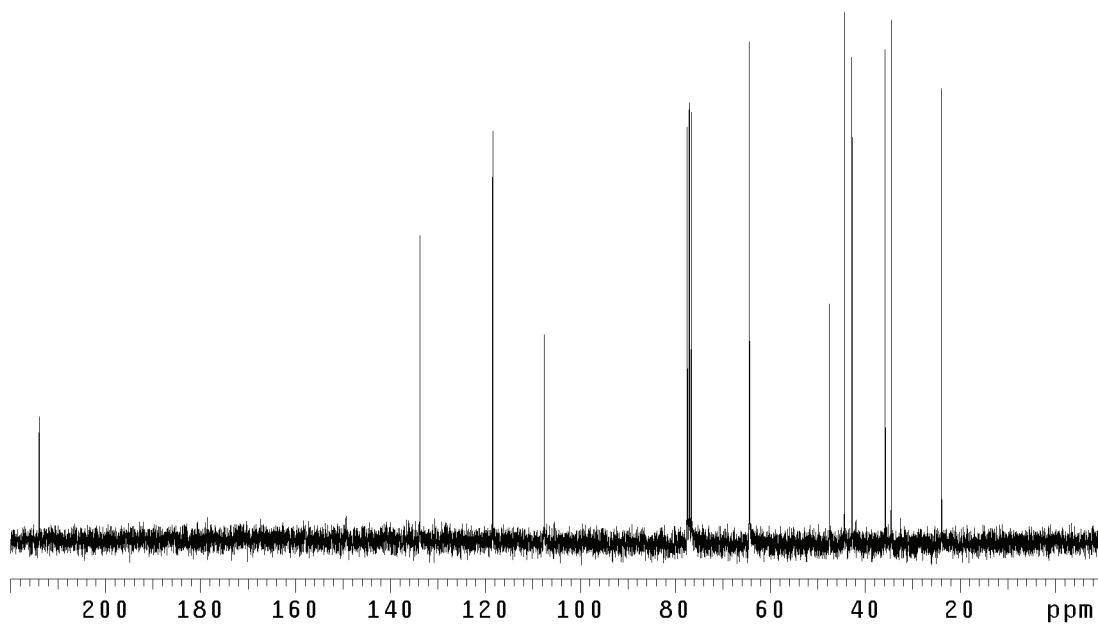


Figure A7.270 <sup>13</sup>C NMR of compound **152** (75 MHz, CDCl<sub>3</sub>)

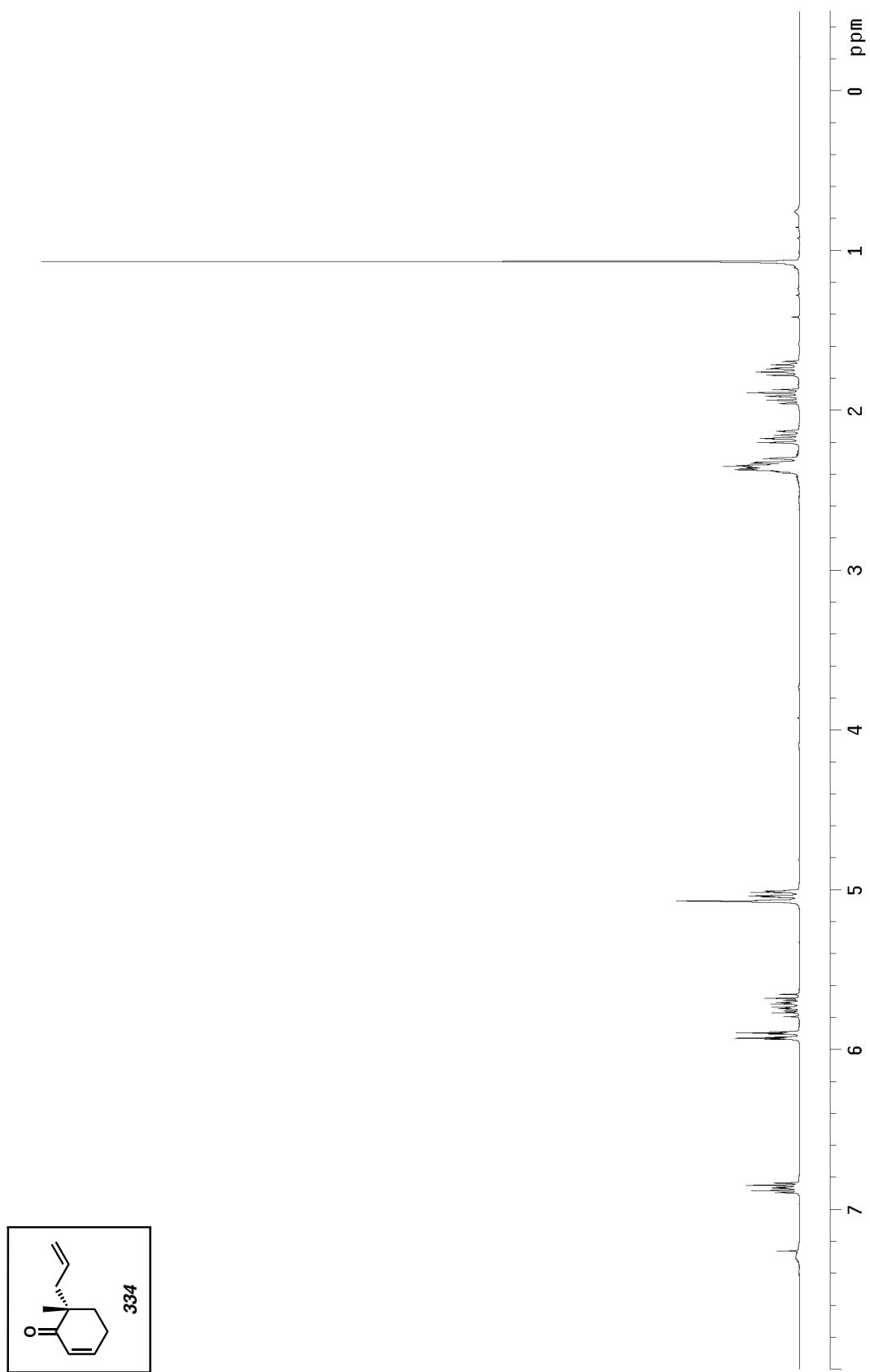


Figure A7.271  $^1\text{H}$  NMR of compound 334 (300 MHz,  $\text{CDCl}_3$ )

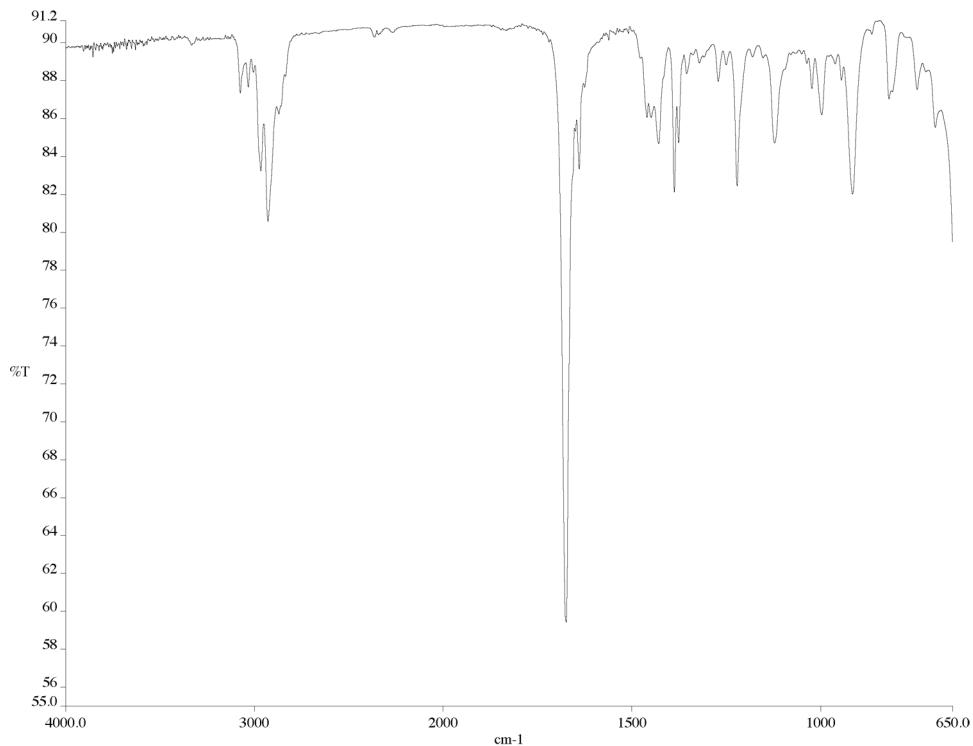


Figure A7.272 IR of compound **334** (NaCl/film)

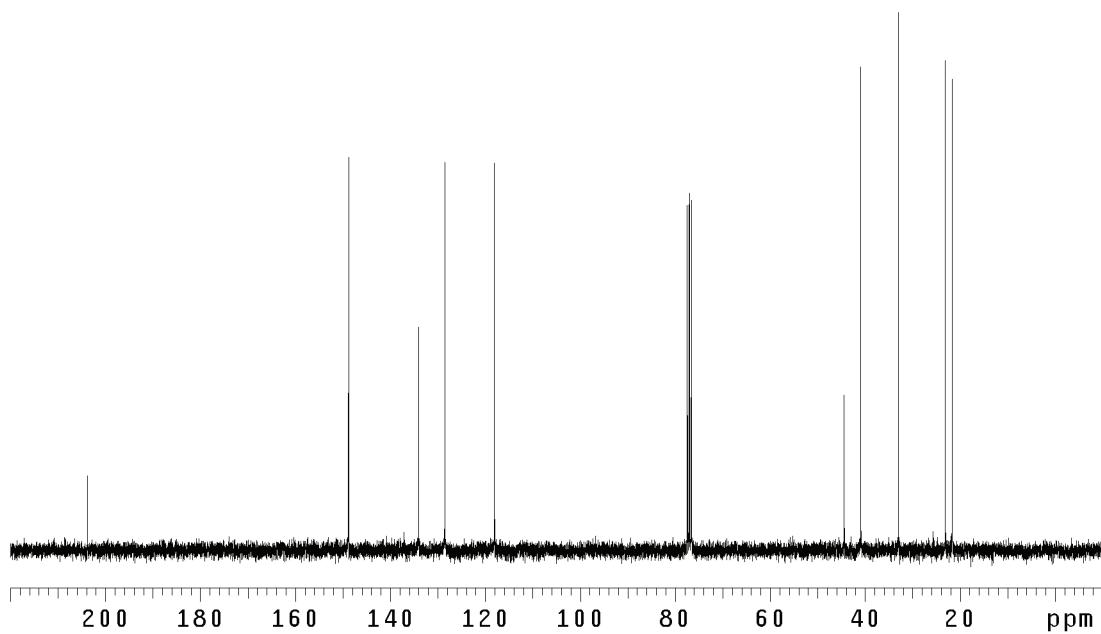


Figure A7.273  $^{13}\text{C}$  NMR of compound **334** (75 MHz,  $\text{CDCl}_3$ )

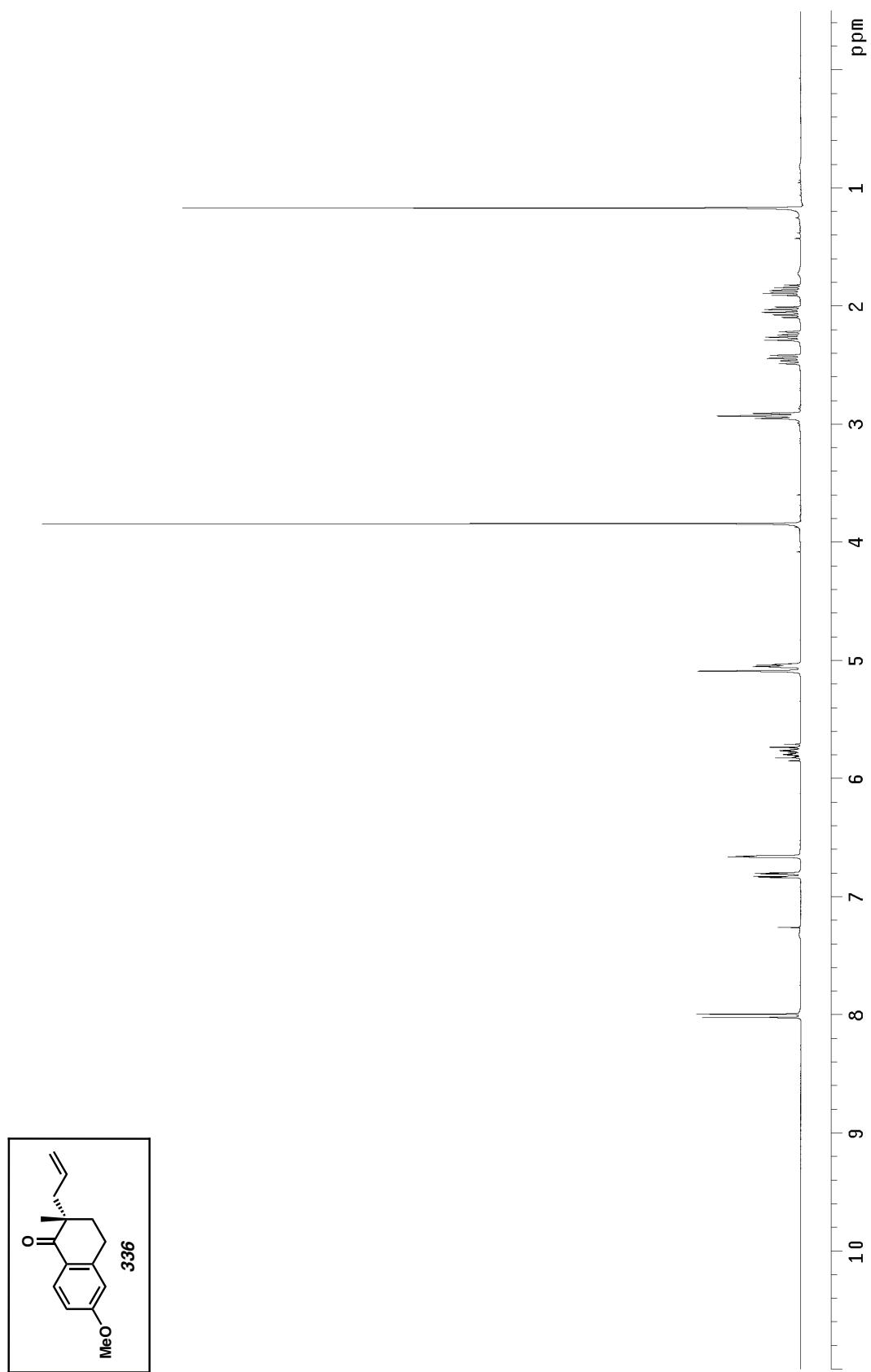


Figure A7.274 <sup>1</sup>H NMR of compound 336 (300 MHz, CDCl<sub>3</sub>)

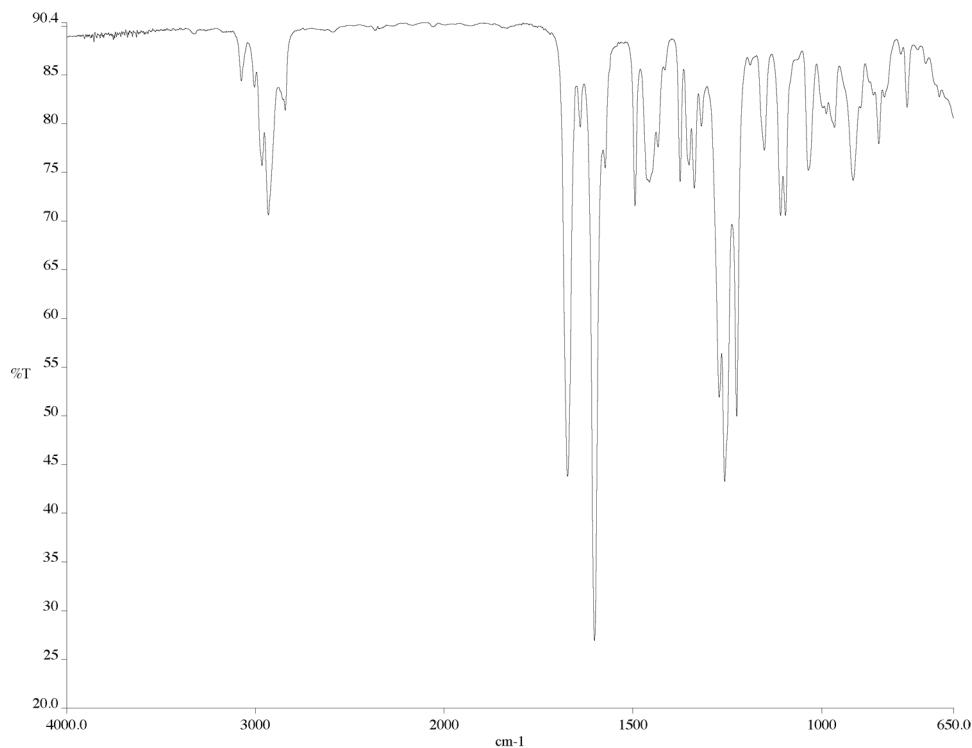


Figure A7.275 IR of compound **336** (NaCl/film)

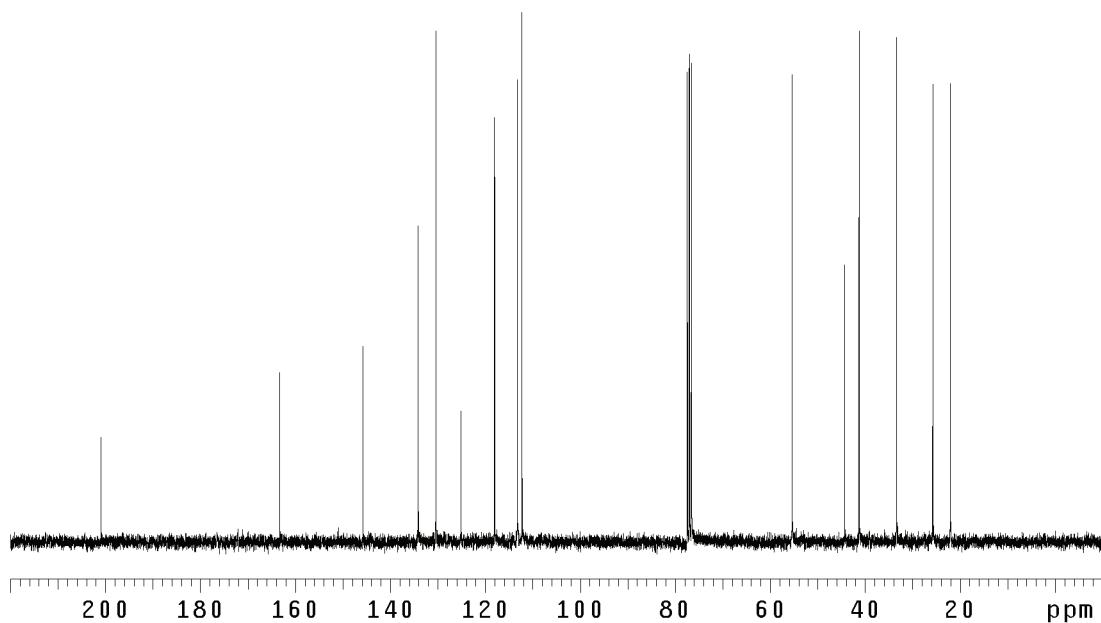


Figure A7.276 <sup>13</sup>C NMR of compound **336** (75 MHz, CDCl<sub>3</sub>)

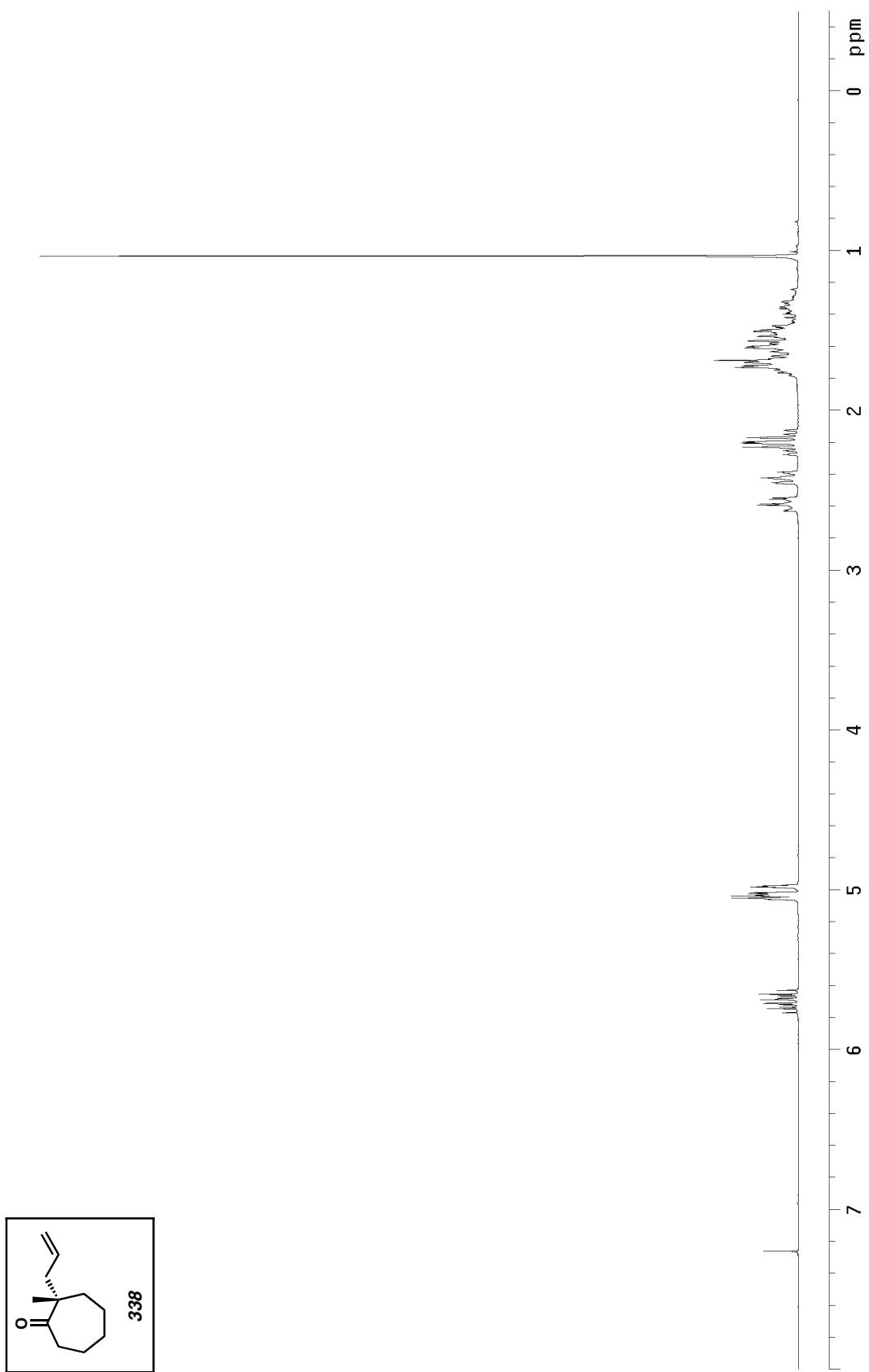


Figure A7.277  $^1\text{H}$  NMR of compound 338 (300 MHz,  $\text{CDCl}_3$ )

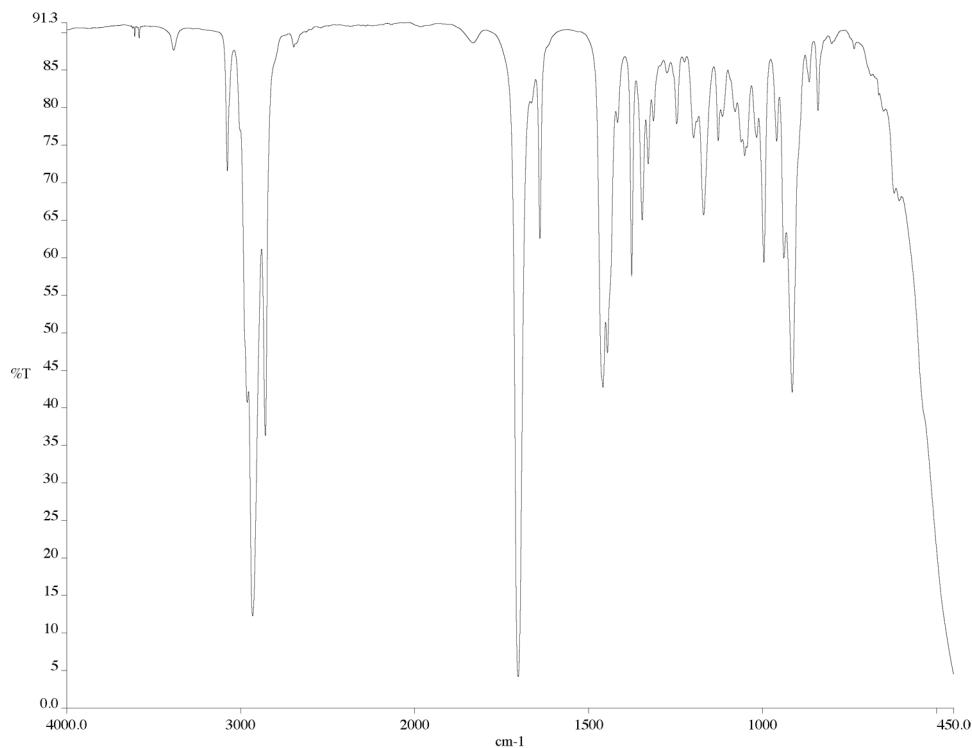


Figure A7.278 IR of compound **338** (NaCl/film)

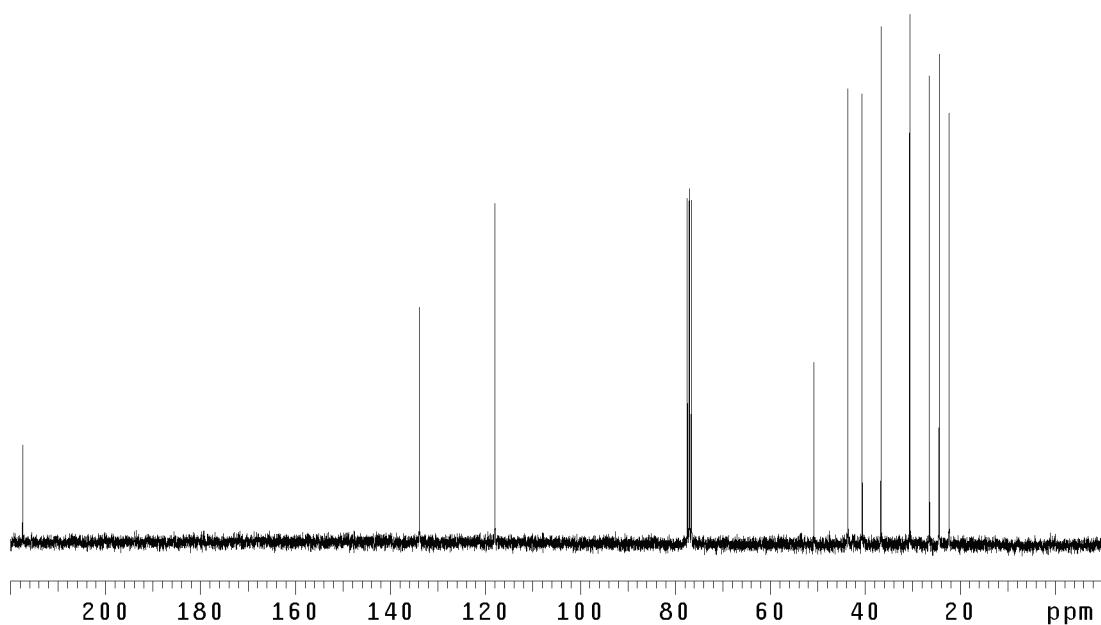


Figure A7.279 <sup>13</sup>C NMR of compound **338** (75 MHz, CDCl<sub>3</sub>)

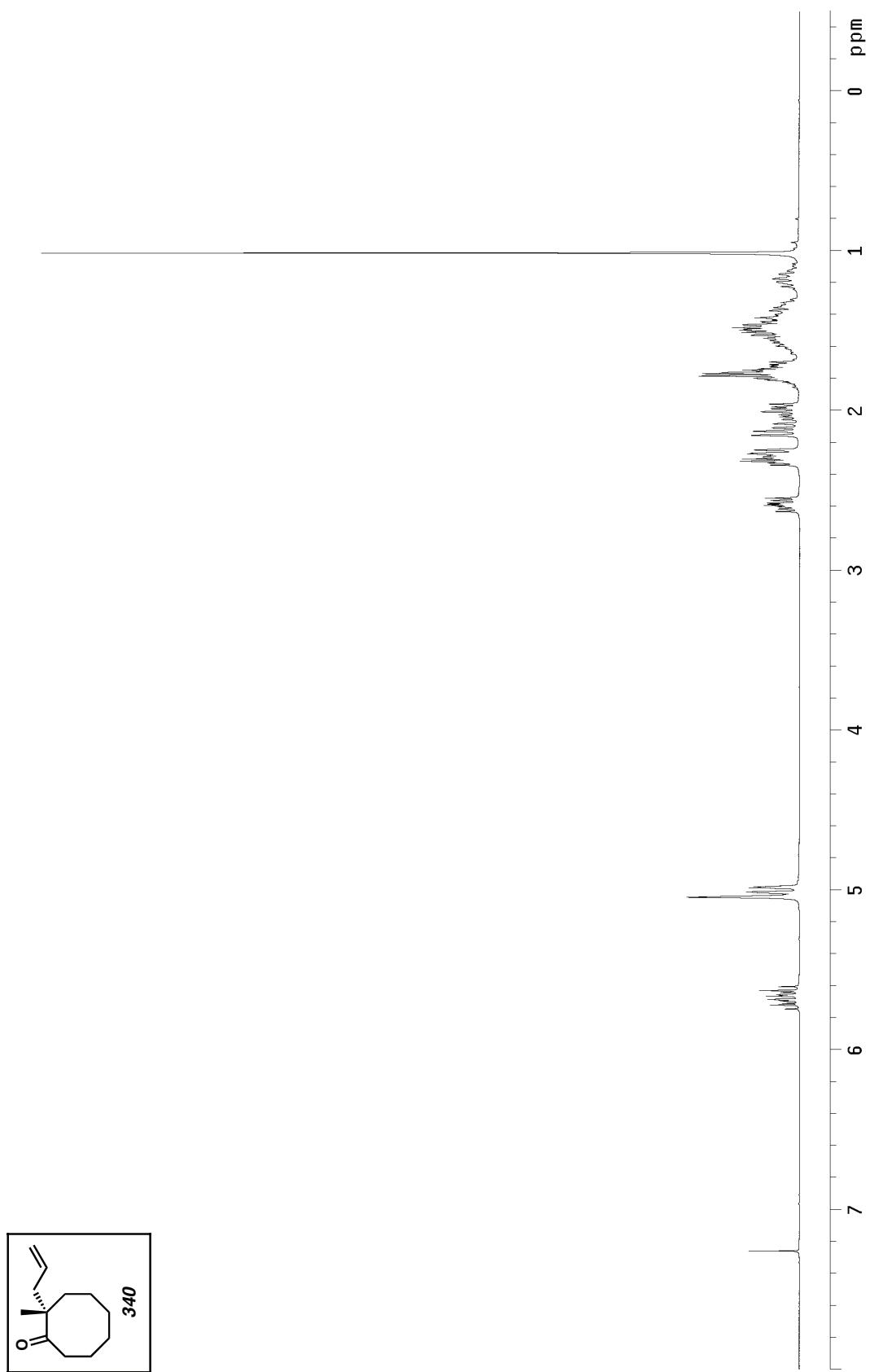
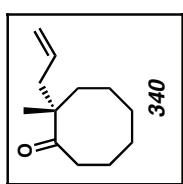


Figure A7.280 <sup>1</sup>H NMR of compound 340 (300 MHz, CDCl<sub>3</sub>)



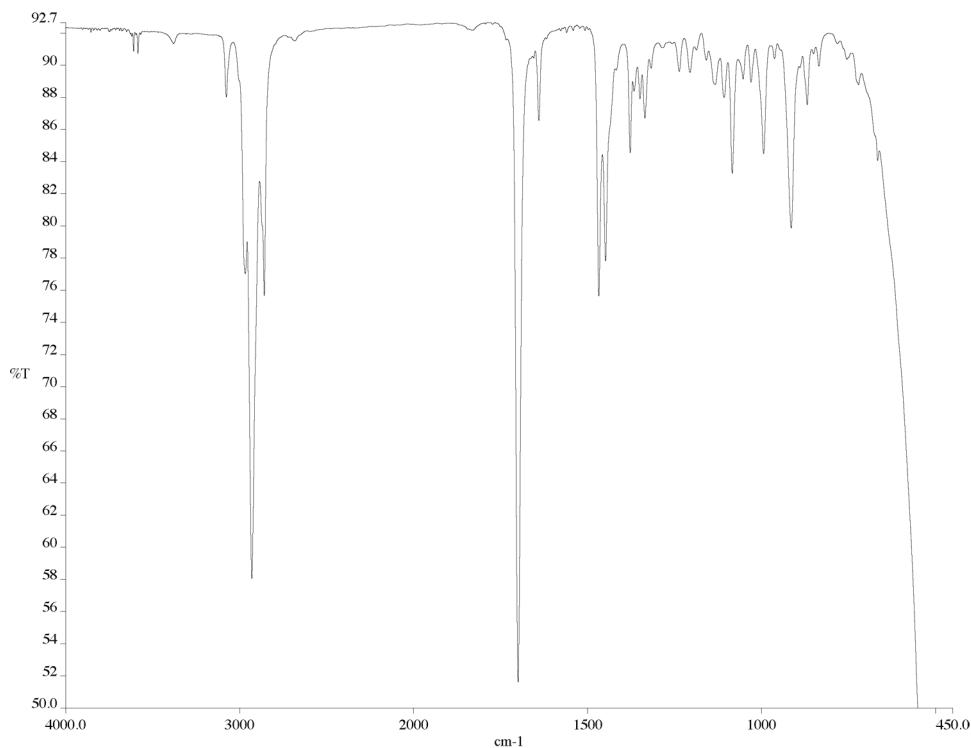


Figure A7.281 IR of compound **340** (NaCl/film)

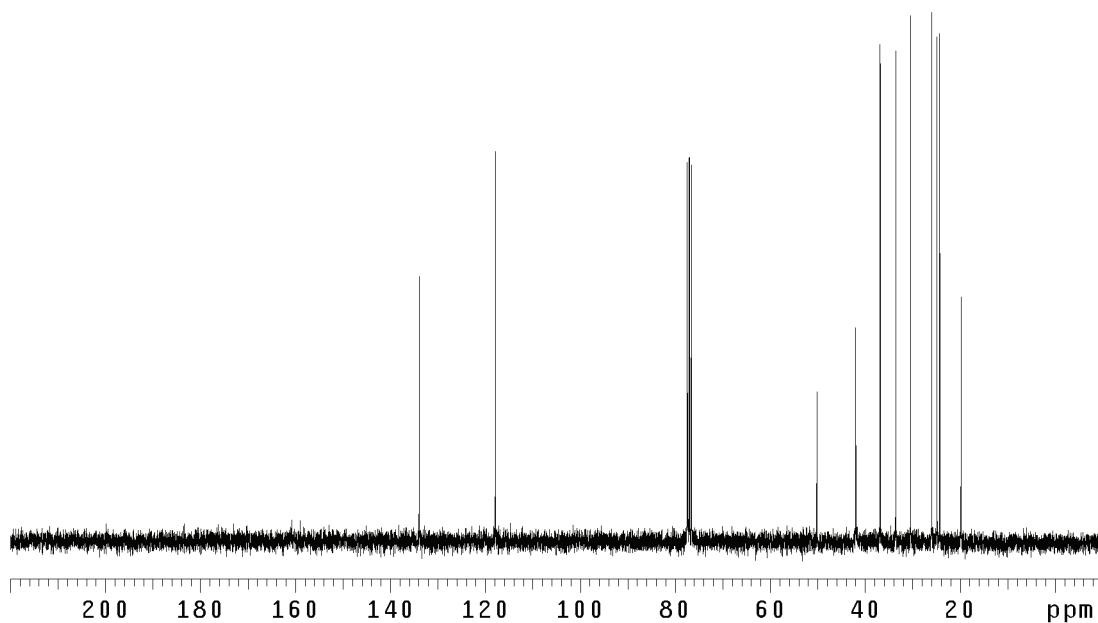


Figure A7.282 <sup>13</sup>C NMR of compound **340** (75 MHz, CDCl<sub>3</sub>)

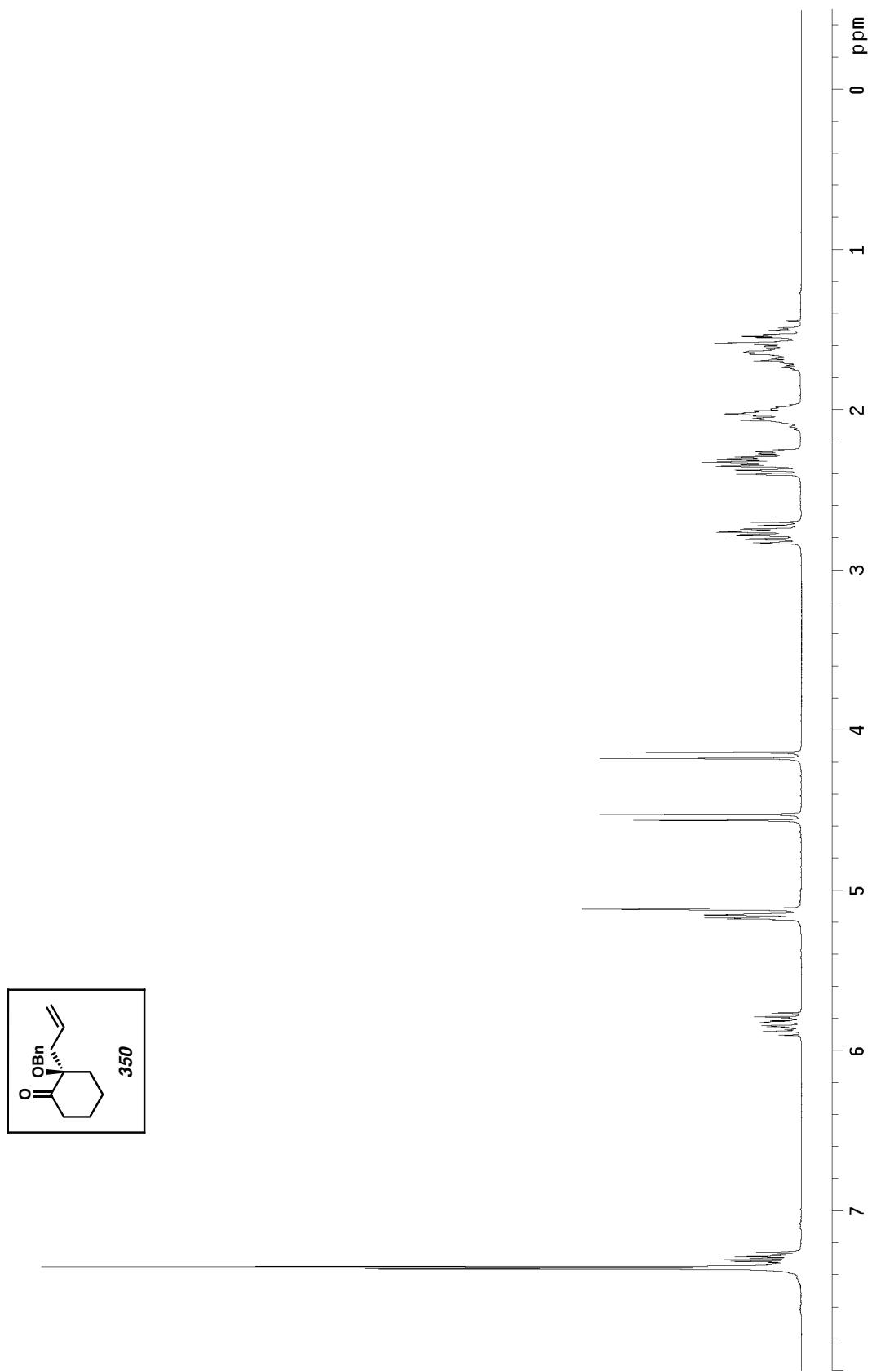


Figure A7.283  $^1\text{H}$  NMR of compound 350 (300 MHz,  $\text{CDCl}_3$ )

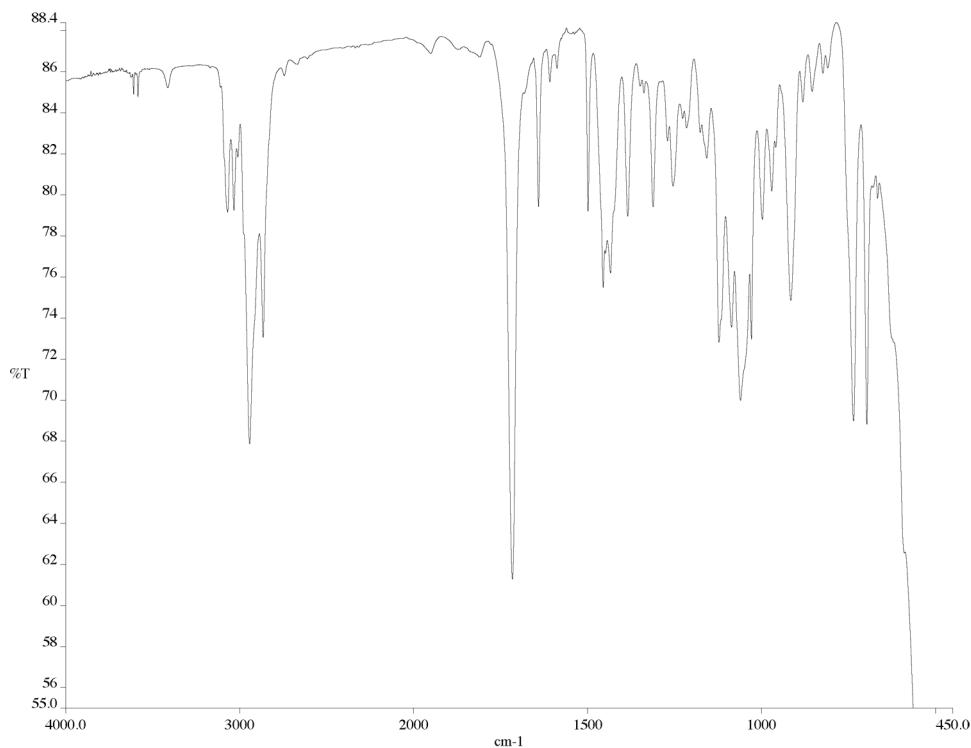


Figure A7.284 IR of compound **350** (NaCl/film)

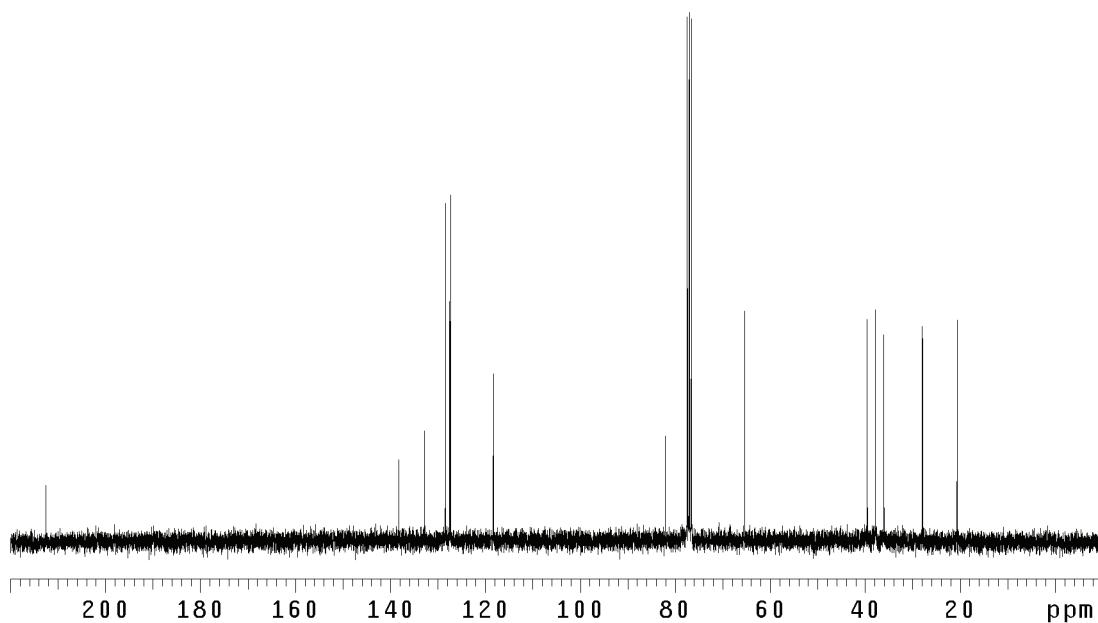


Figure A7.285 <sup>13</sup>C NMR of compound **350** (75 MHz, CDCl<sub>3</sub>)

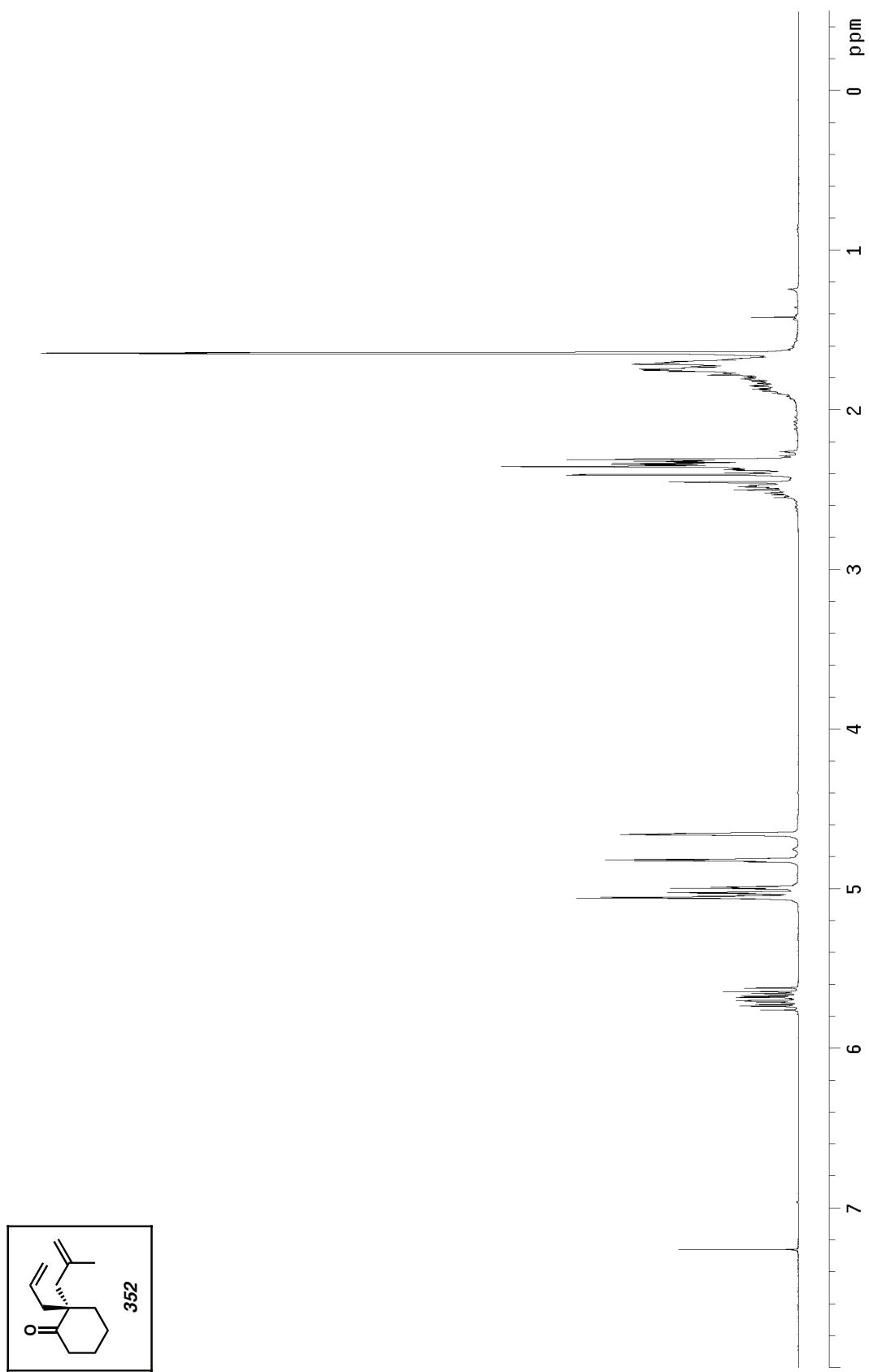


Figure A7.286  $^1\text{H}$  NMR of compound 352 (300 MHz,  $\text{CDCl}_3$ )

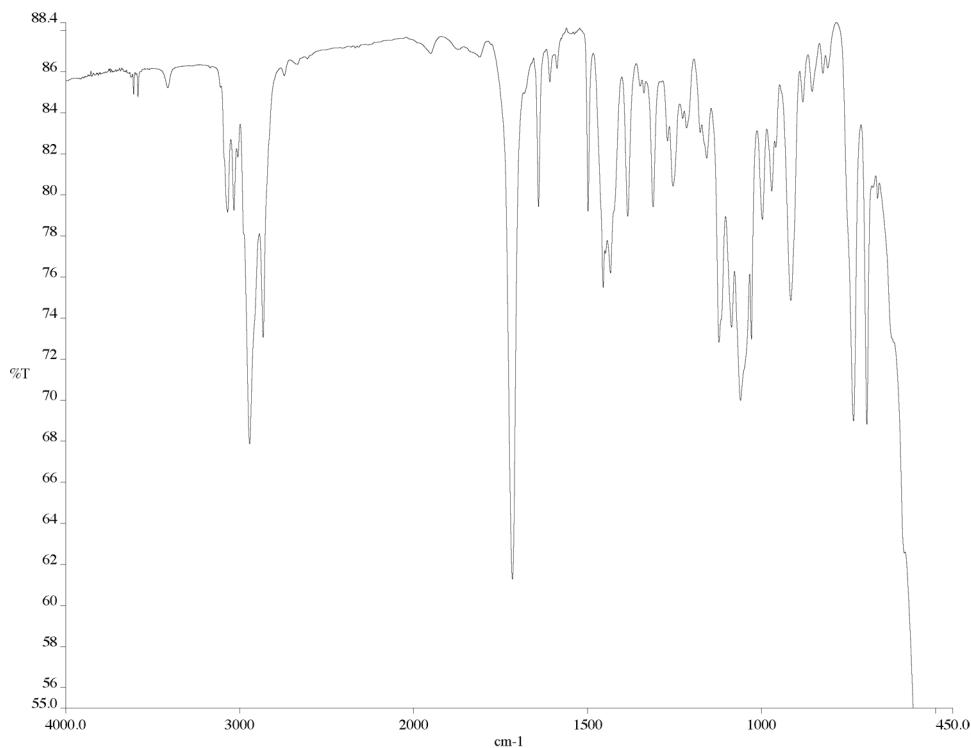


Figure A7.287 IR of compound **352** (NaCl/film)

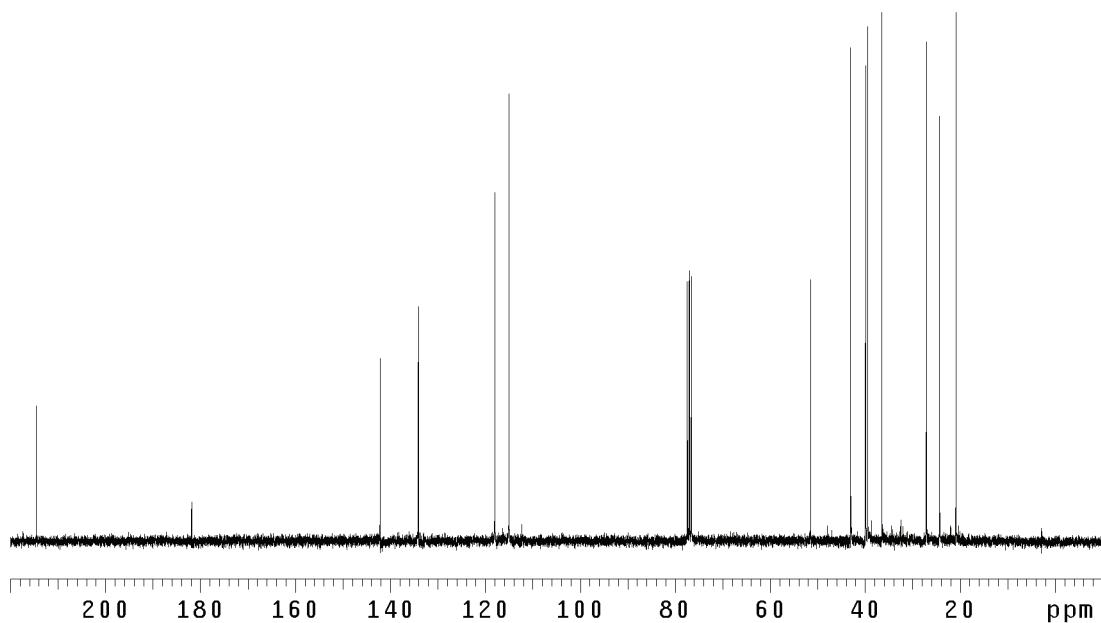


Figure A7.288 <sup>13</sup>C NMR of compound **352** (75 MHz, CDCl<sub>3</sub>)

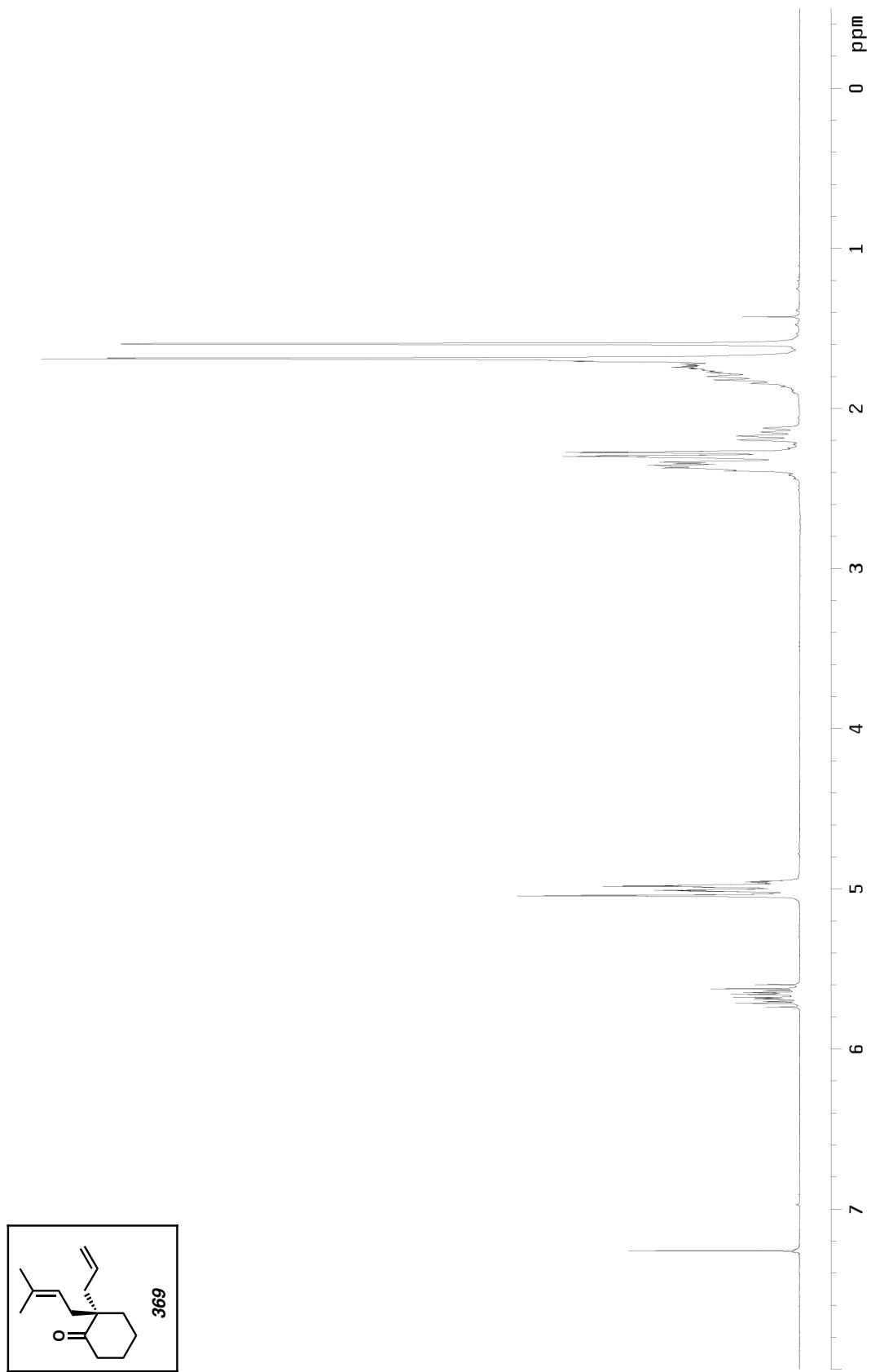


Figure A7.289  $^1\text{H}$  NMR of compound 369 (300 MHz, CDCl<sub>3</sub>)

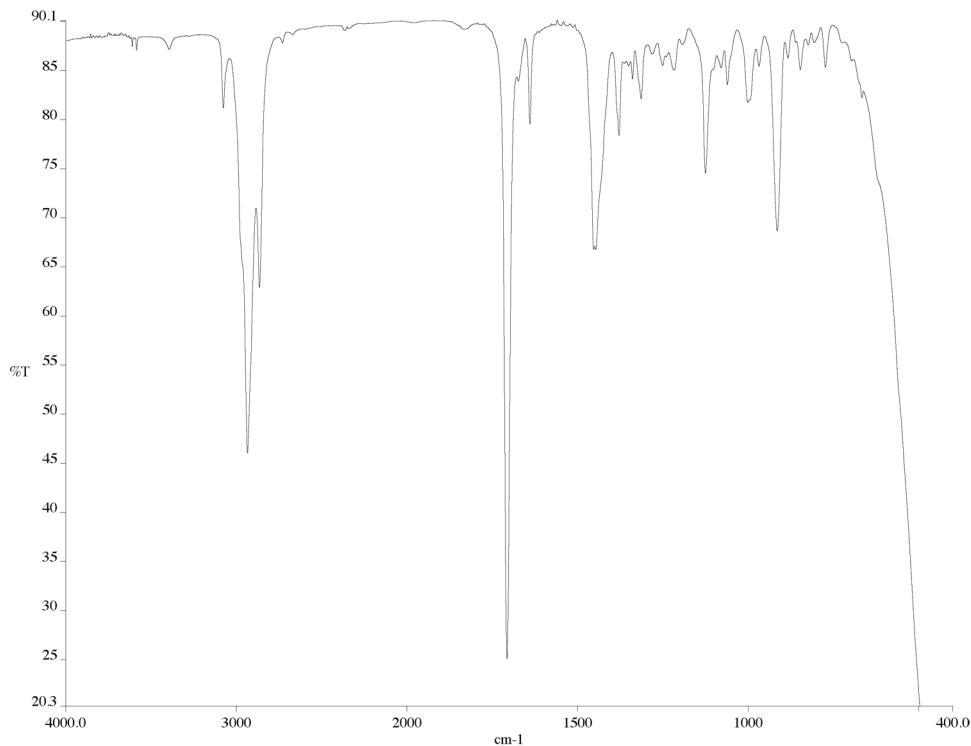


Figure A7.290 IR of compound **369** (NaCl/film)

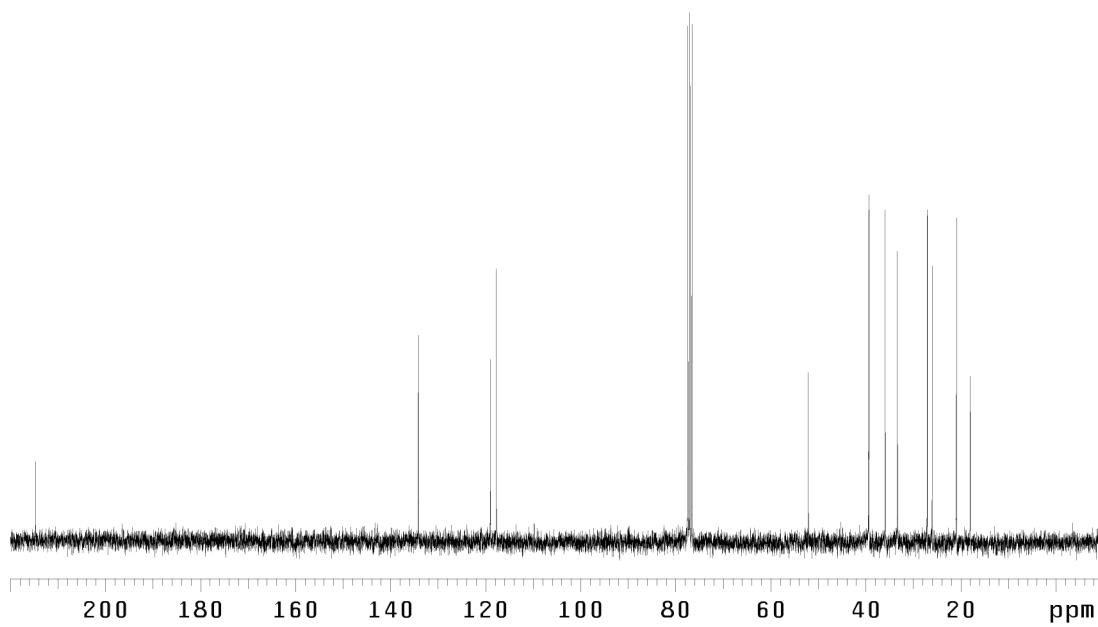


Figure A7.291 <sup>13</sup>C NMR of compound **369** (75 MHz, CDCl<sub>3</sub>)

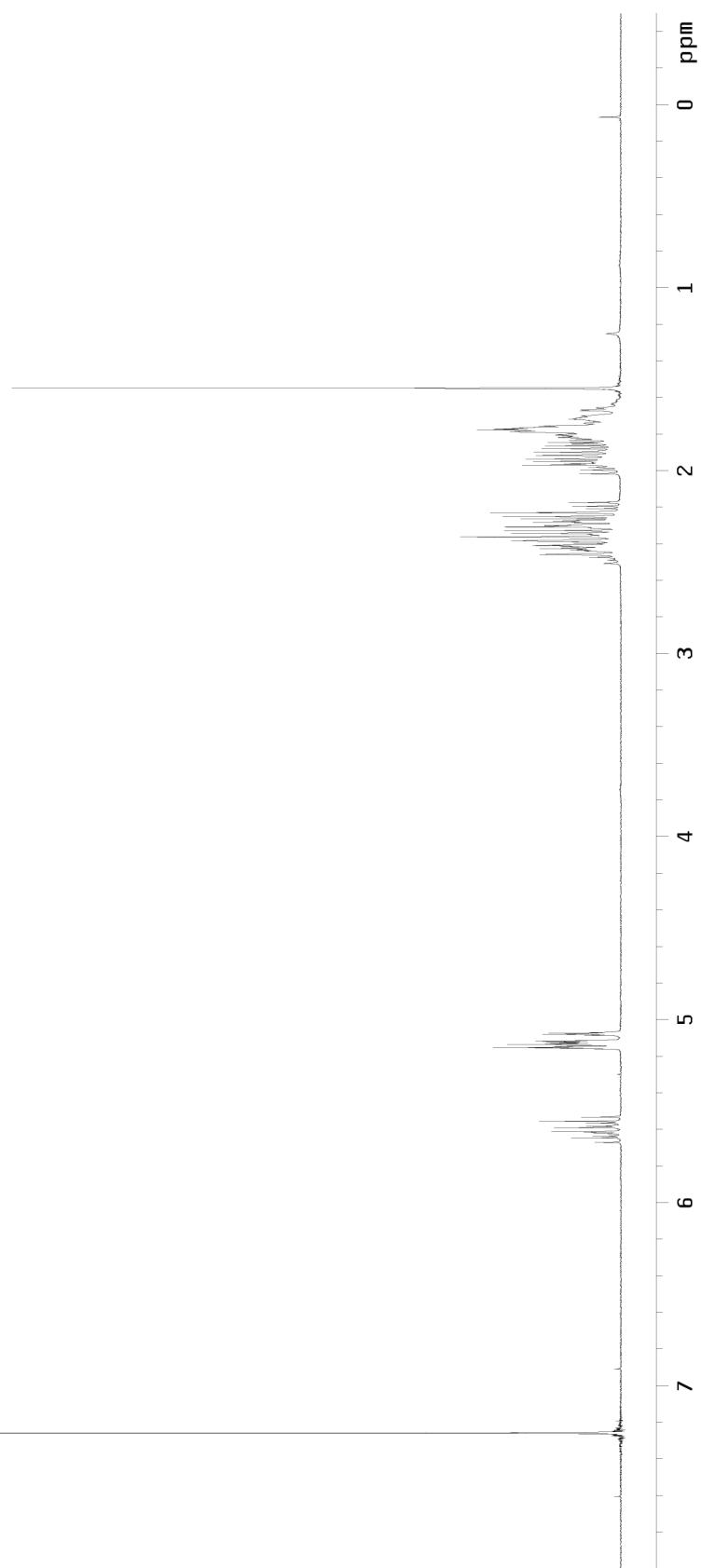
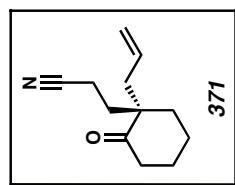


Figure A7.292  $^1\text{H}$  NMR of compound 371 (300 MHz,  $\text{CDCl}_3$ )

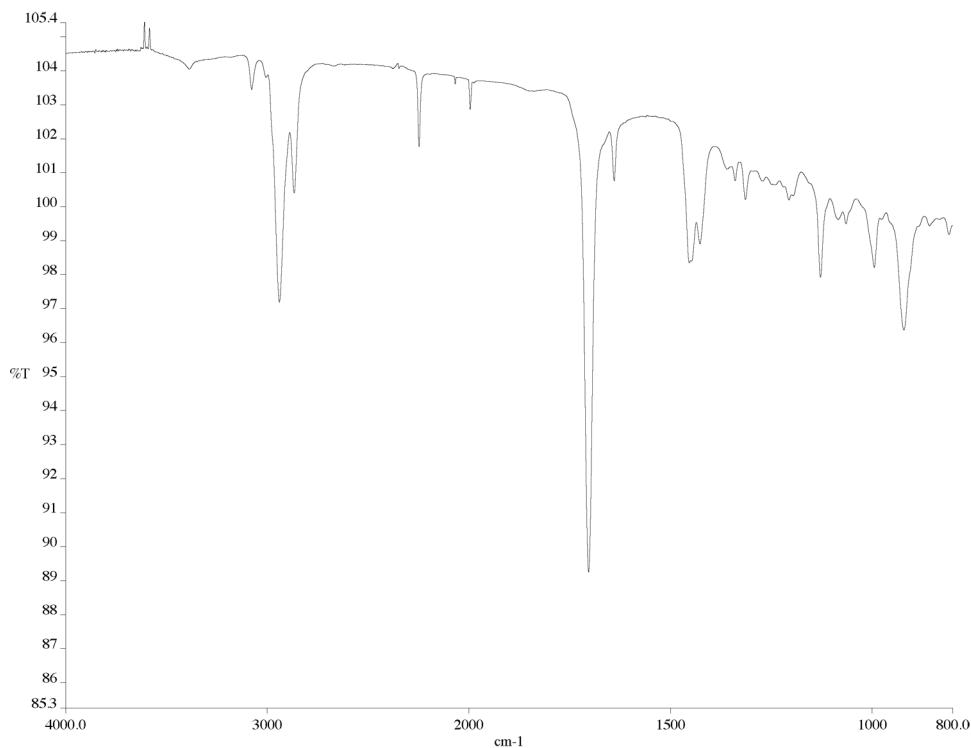


Figure A7.293 IR of compound **371** (NaCl/film)

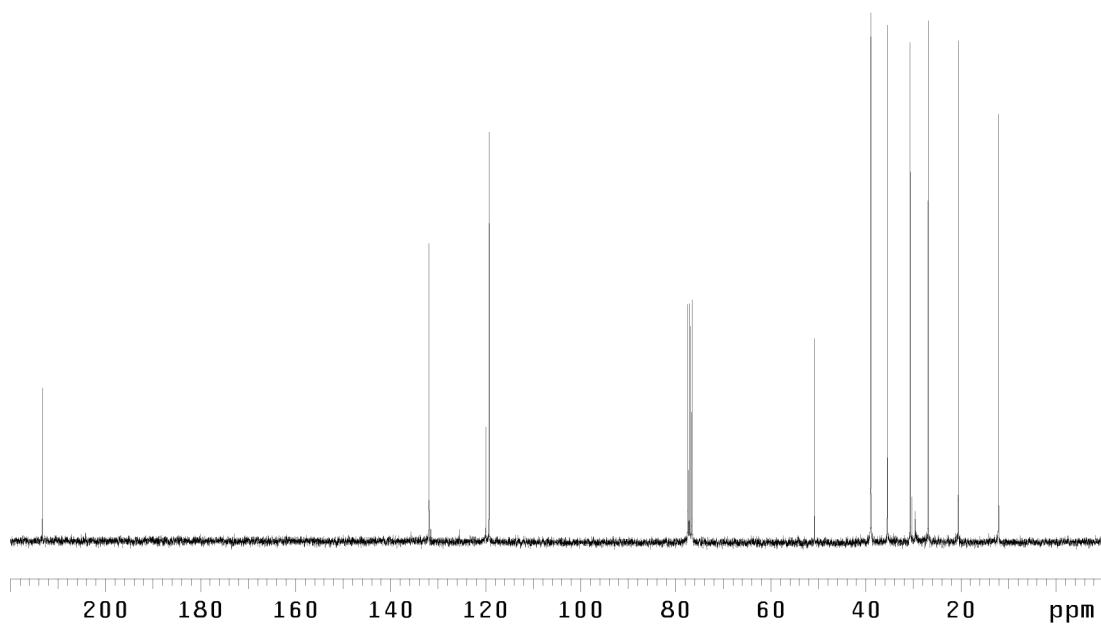


Figure A7.294 <sup>13</sup>C NMR of compound **371** (75 MHz, CDCl<sub>3</sub>)

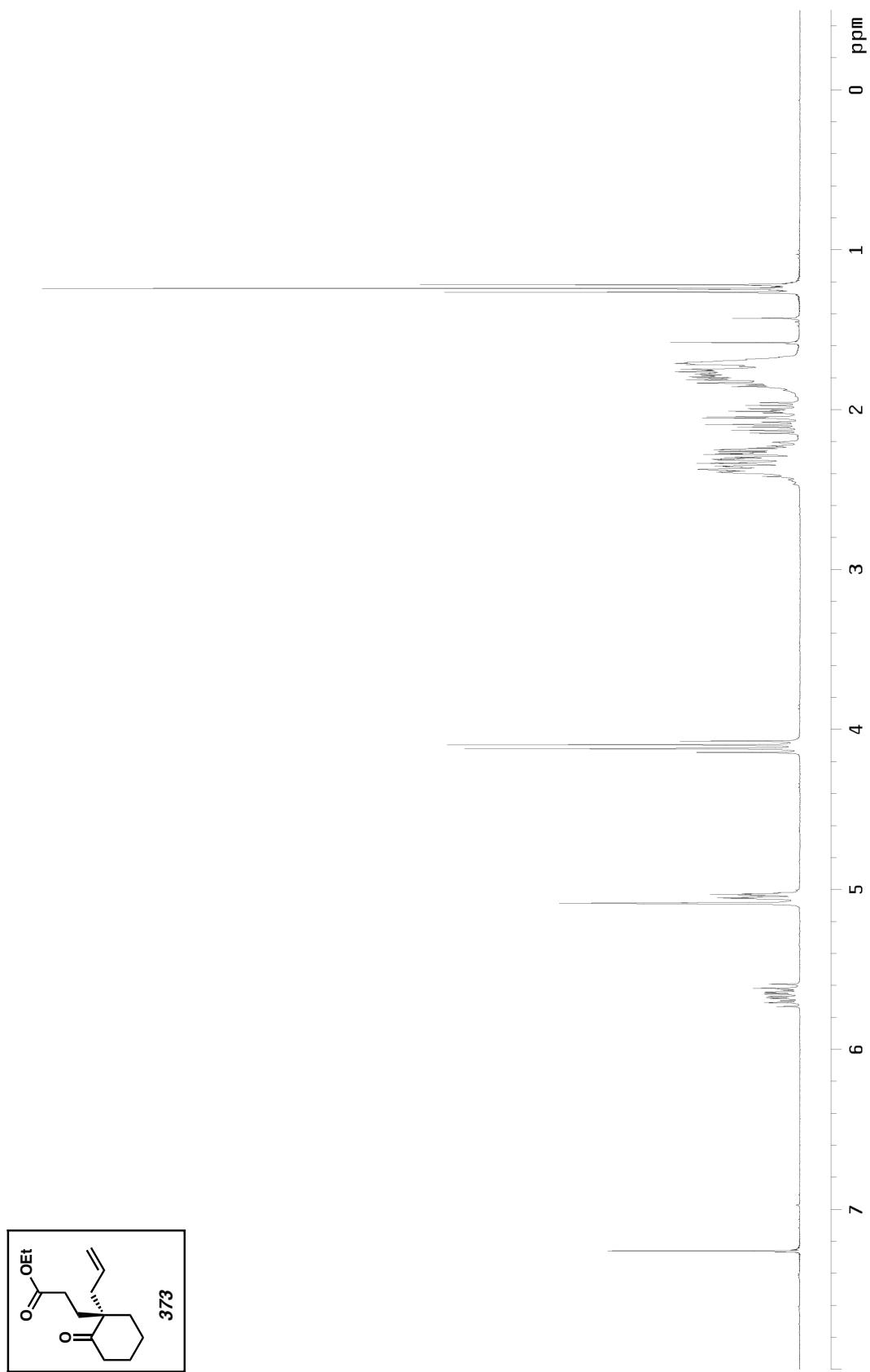


Figure A7.295  $^1\text{H}$  NMR of compound 373 (300 MHz,  $\text{CDCl}_3$ )

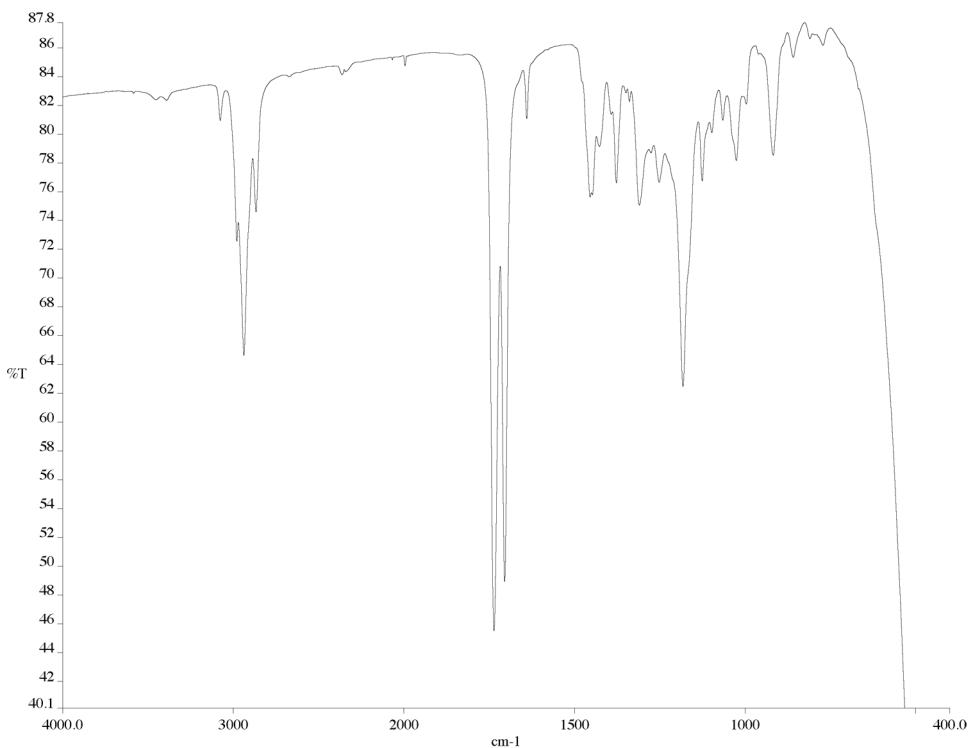


Figure A7.296 IR of compound **373** (NaCl/film)

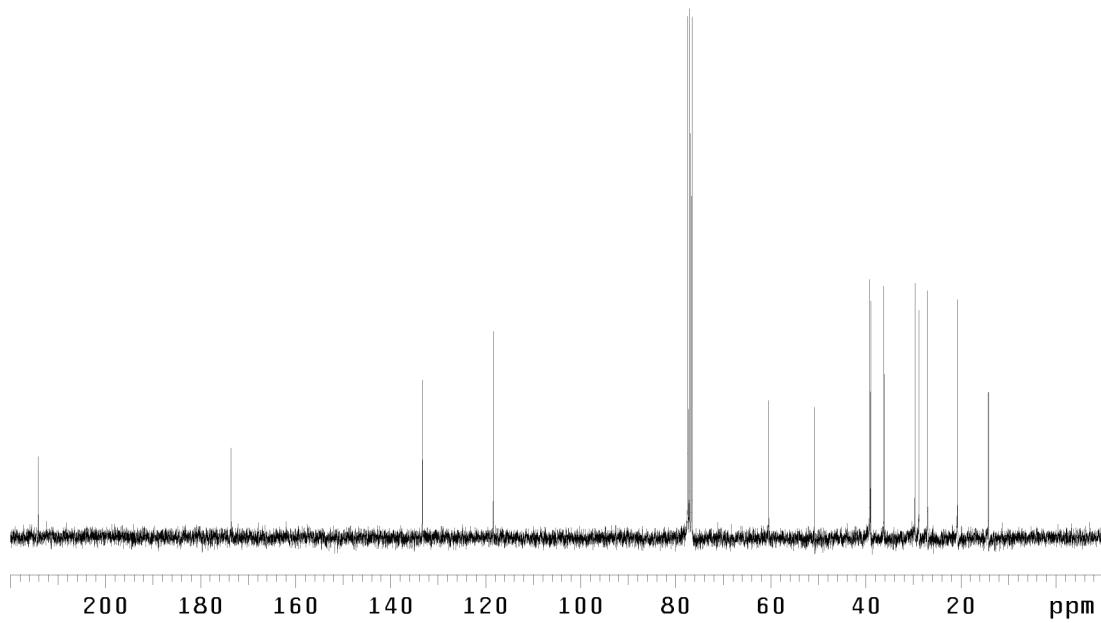


Figure A7.297 <sup>13</sup>C NMR of compound **373** (75 MHz, CDCl<sub>3</sub>)

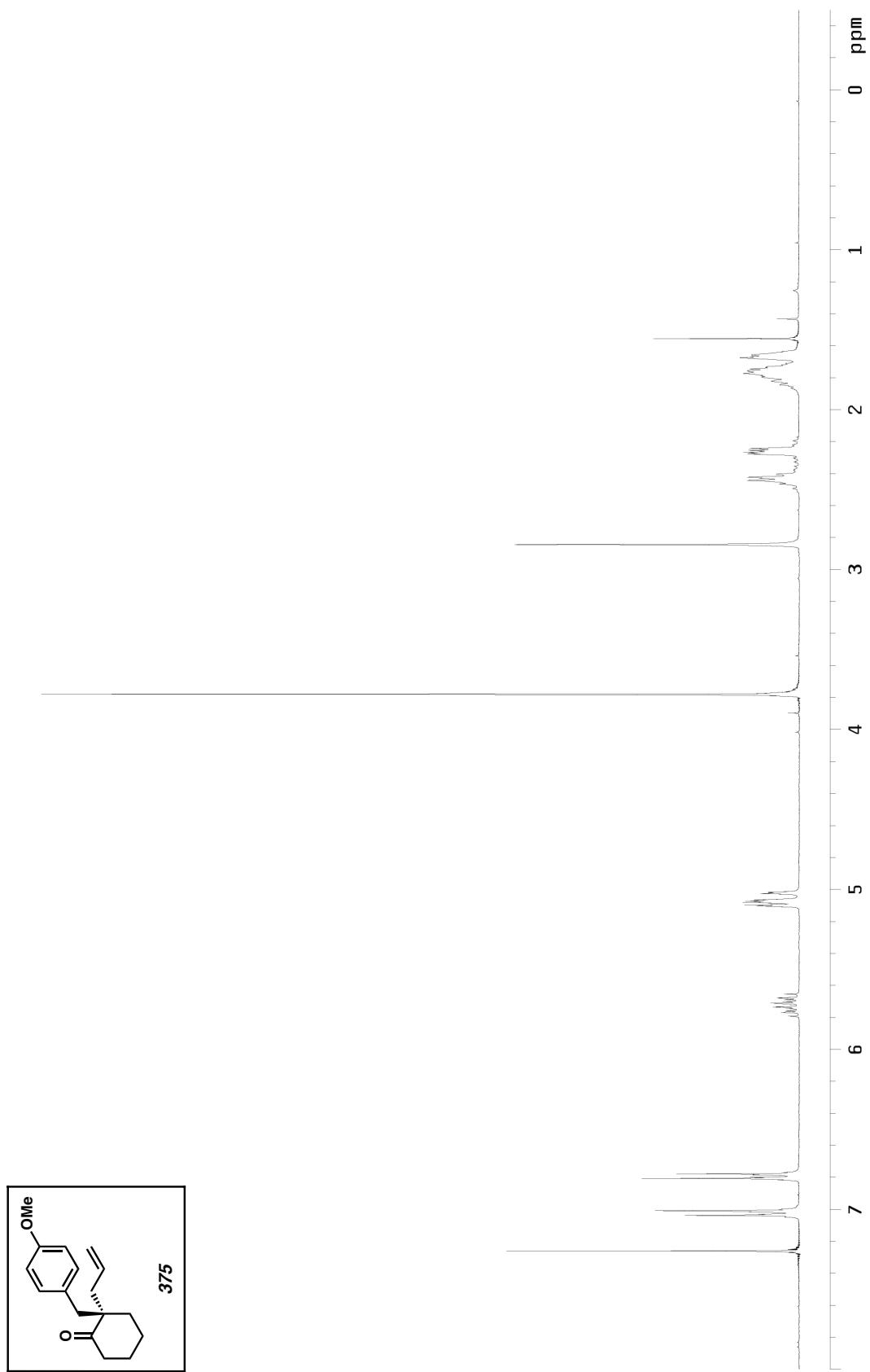


Figure A7.298  $^1\text{H}$  NMR of compound **375** (300 MHz,  $\text{CDCl}_3$ )

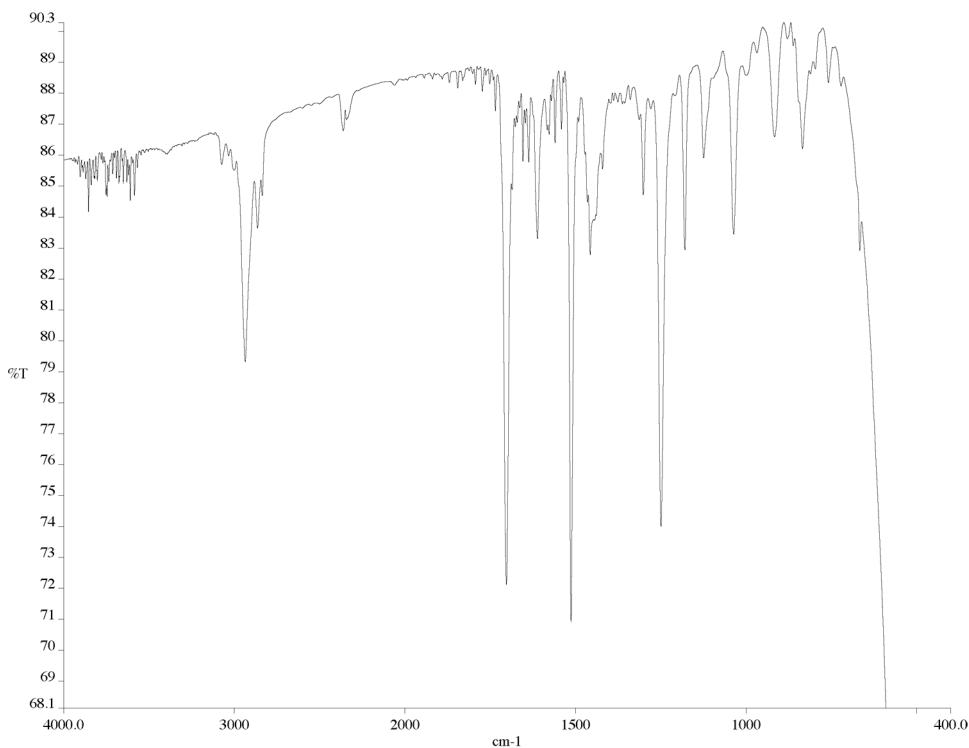


Figure A7.299 IR of compound **375** (NaCl/film)

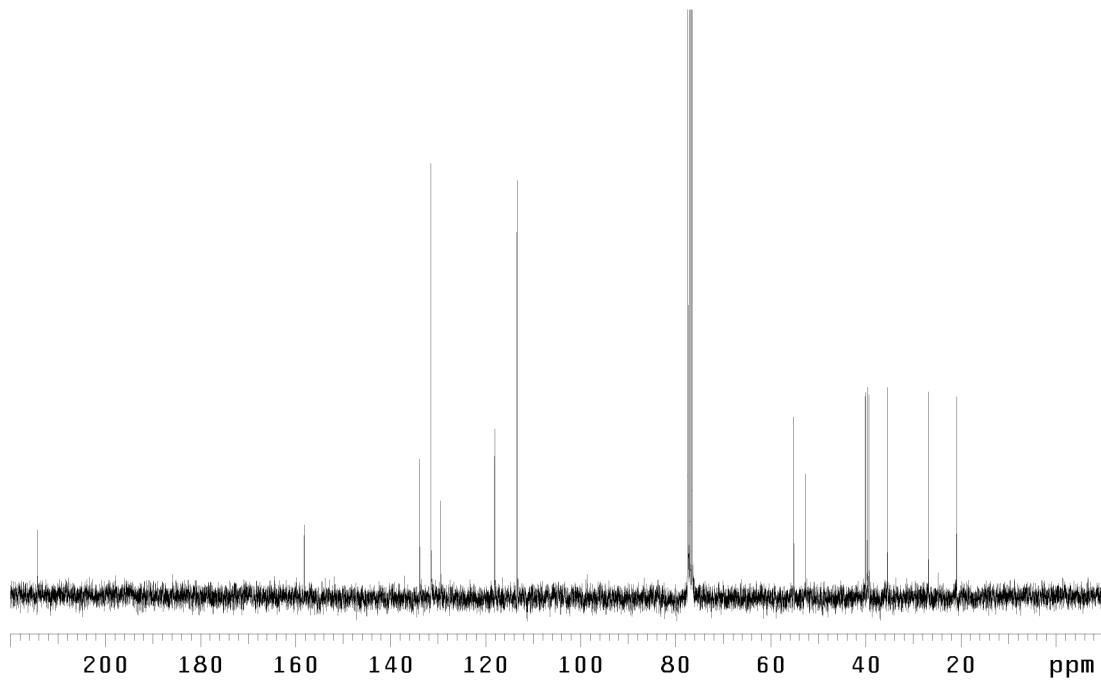


Figure A7.300  $^{13}\text{C}$  NMR of compound **375** (75 MHz,  $\text{CDCl}_3$ )

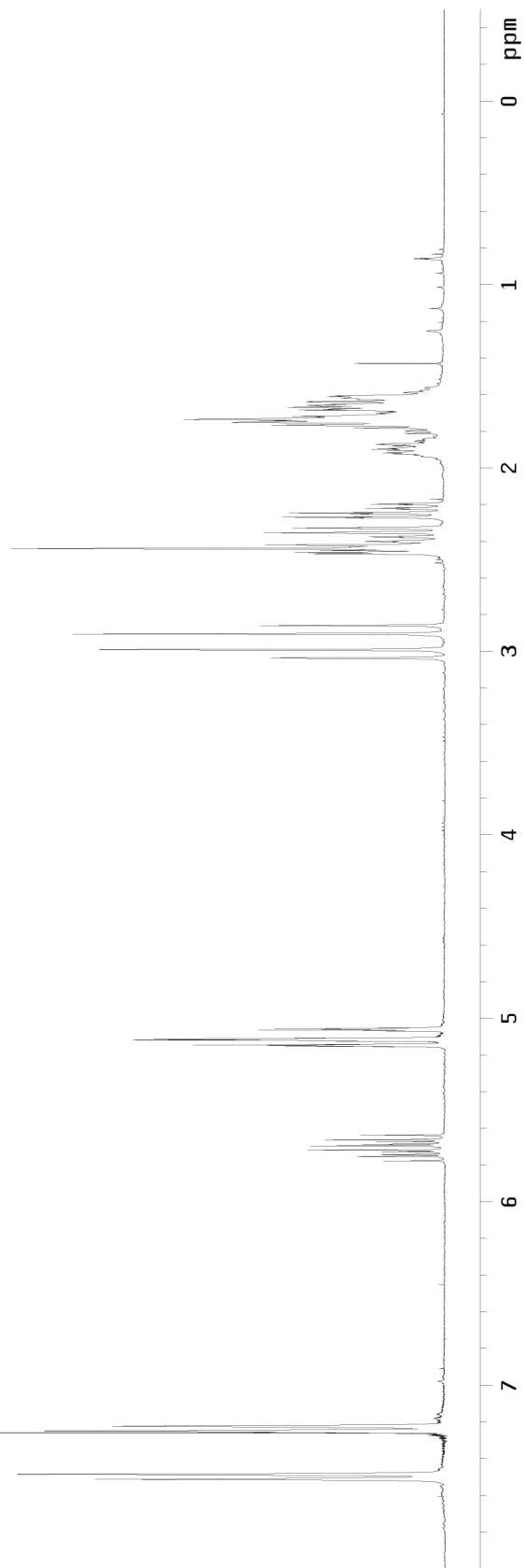
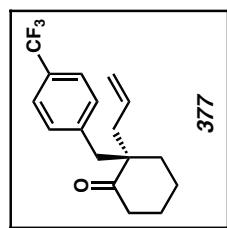


Figure A7.301  $^1\text{H}$  NMR of compound 377 (300 MHz,  $\text{CDCl}_3$ )

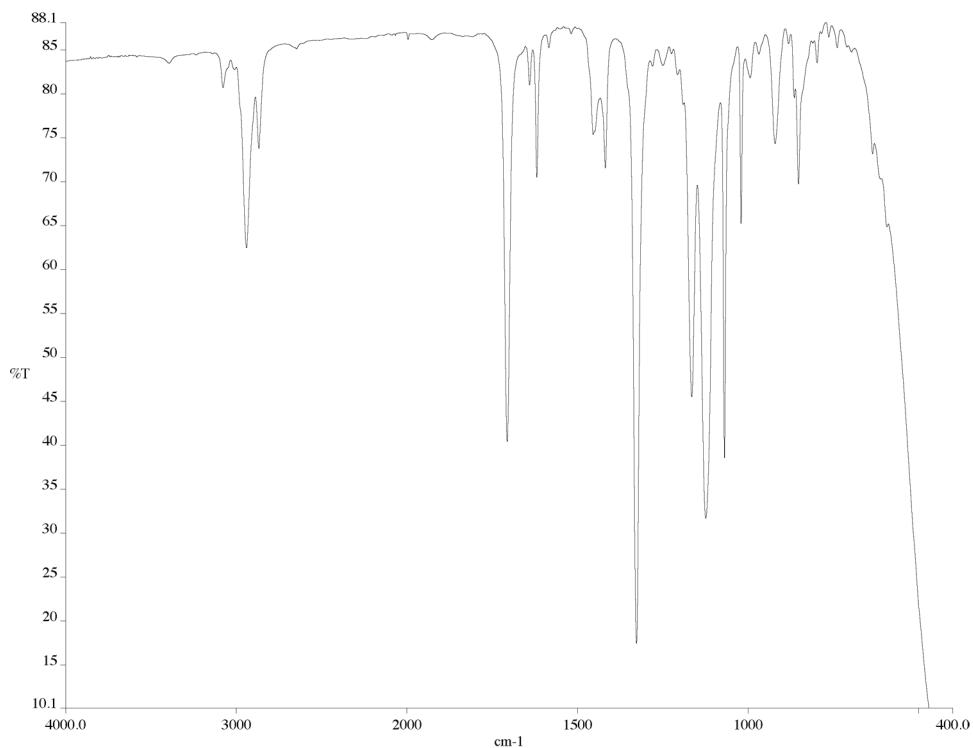


Figure A7.302 IR of compound **377** (NaCl/film)

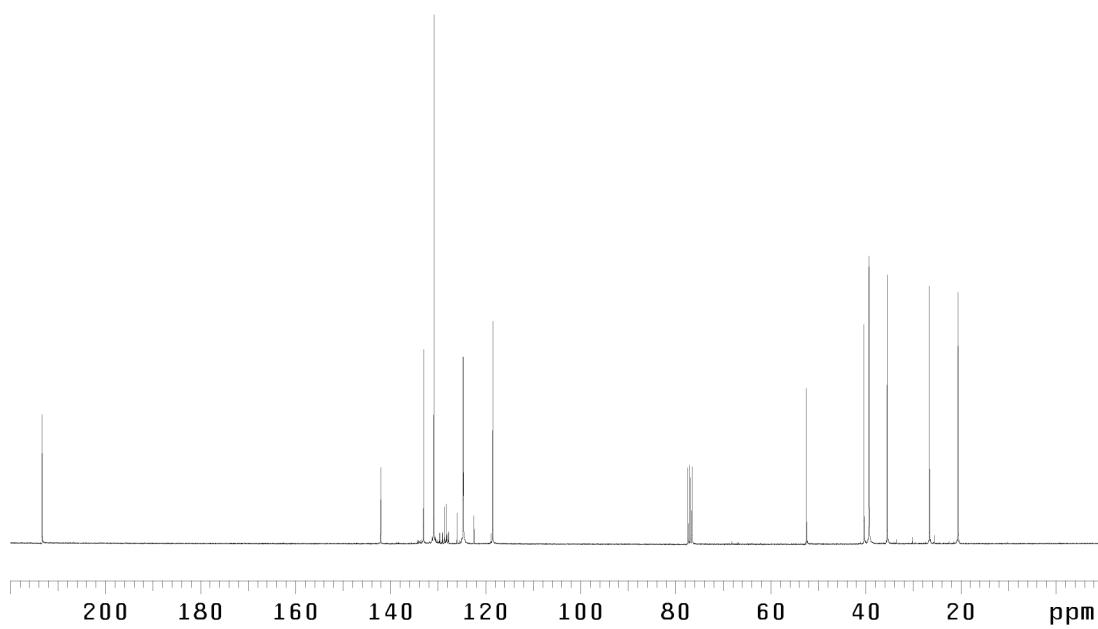


Figure A7.303  $^{13}\text{C}$  NMR of compound **377** (75 MHz,  $\text{CDCl}_3$ )

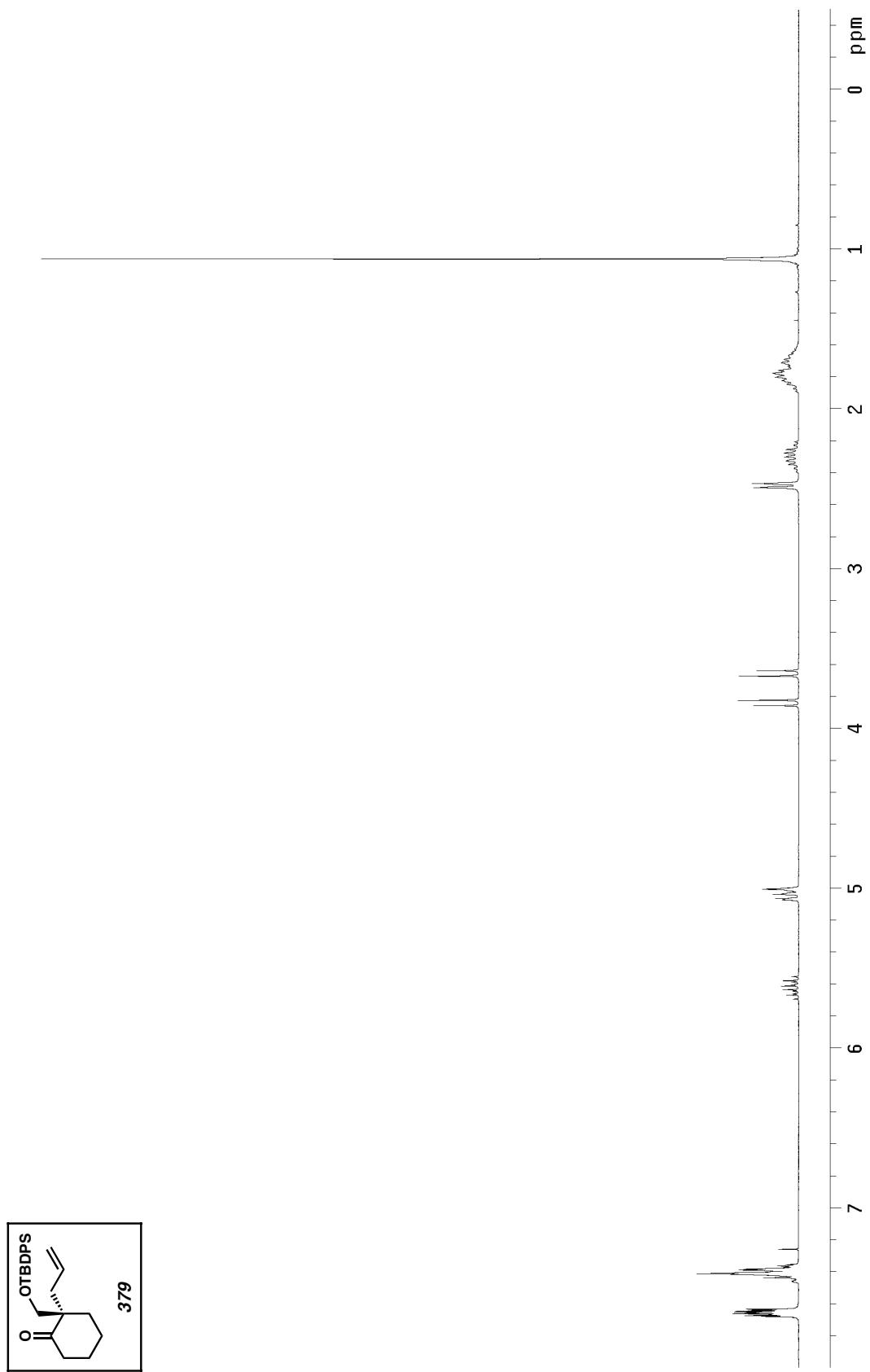


Figure A7.304  $^1\text{H}$  NMR of compound 379 (300 MHz, CDCl<sub>3</sub>)

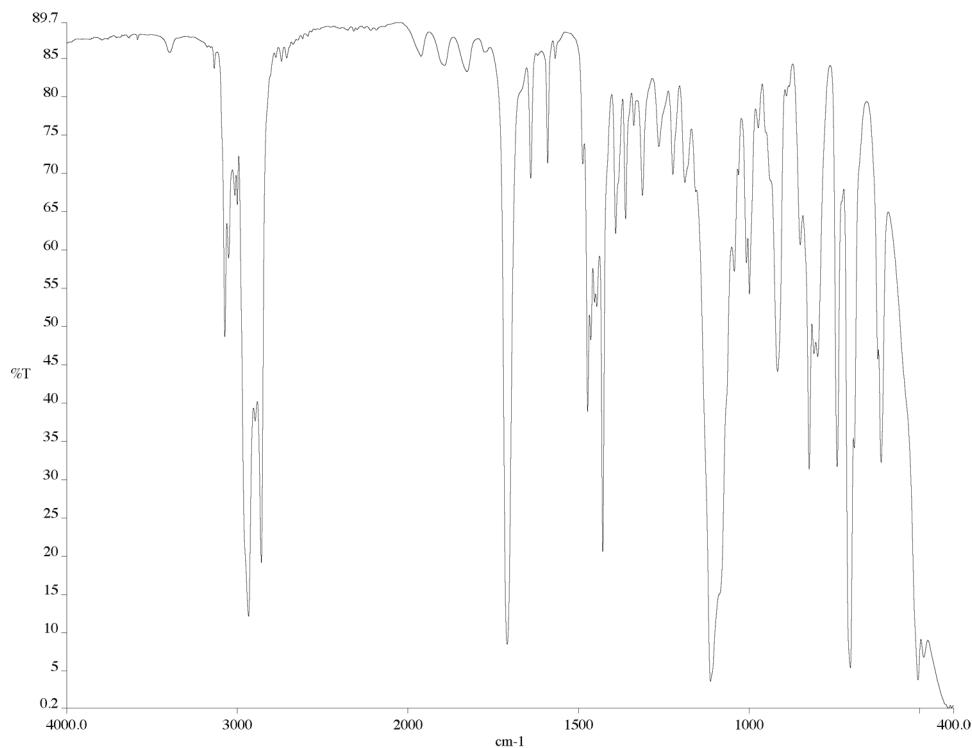


Figure A7.305 IR of compound **379** (NaCl/film)

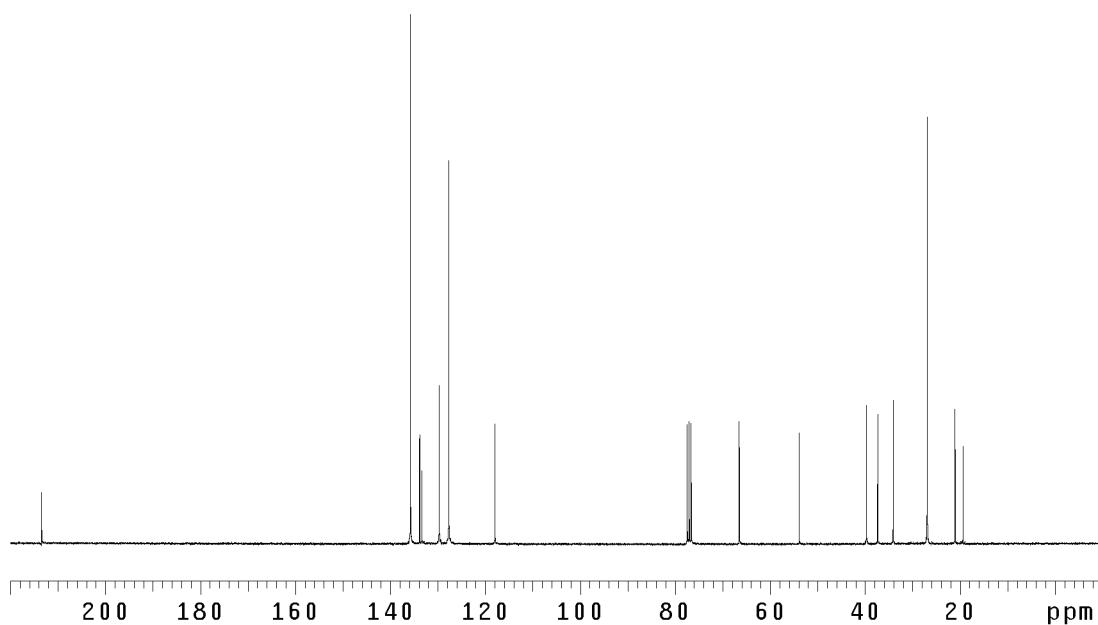
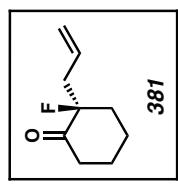


Figure A7.306  $^{13}\text{C}$  NMR of compound **379** (75 MHz,  $\text{CDCl}_3$ )



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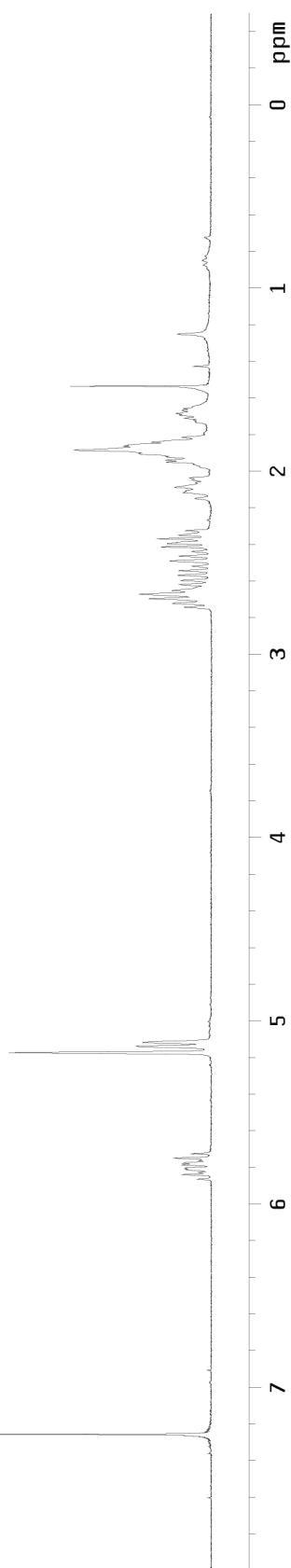


Figure A7.307  $^1\text{H}$  NMR of compound 381 (300 MHz,  $\text{CDCl}_3$ )

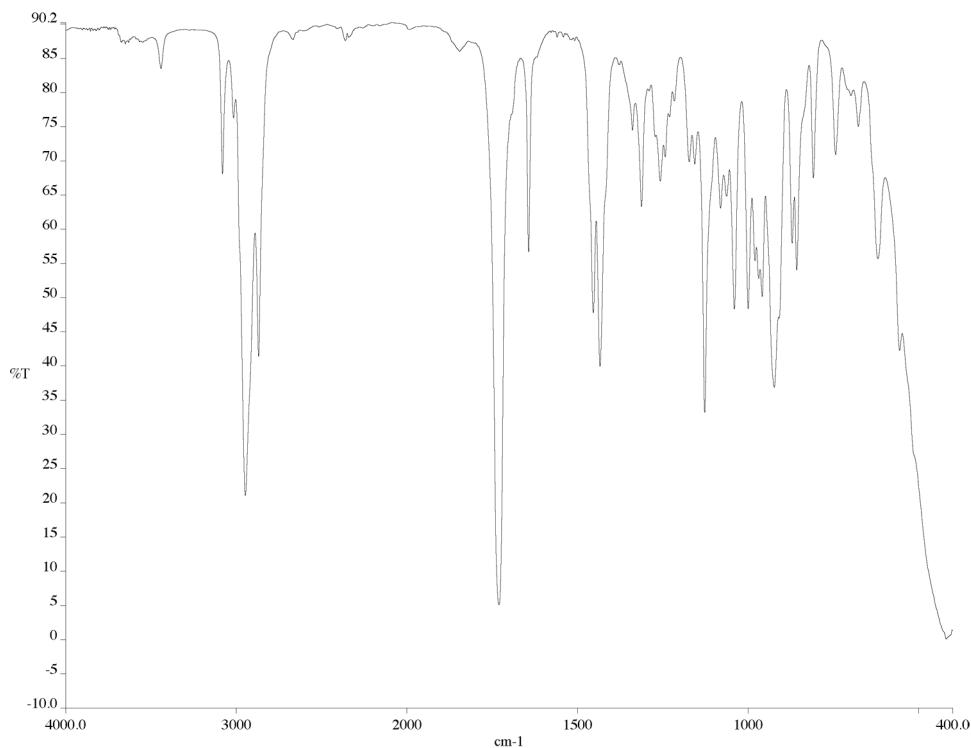


Figure A7.308 IR of compound **381** (NaCl/film)

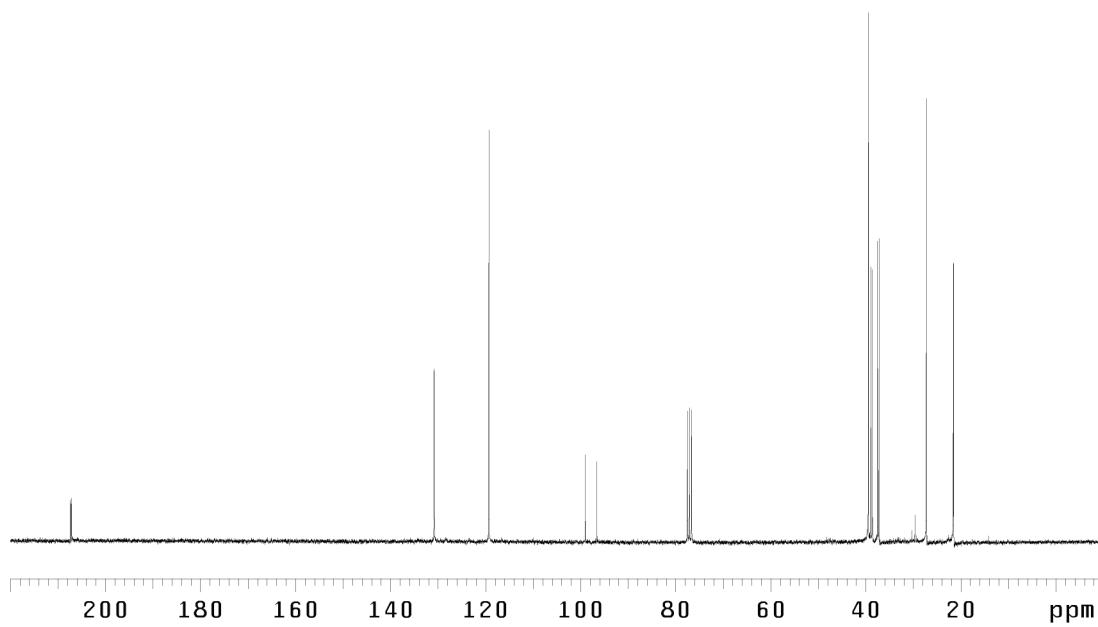


Figure A7.309  $^{13}\text{C}$  NMR of compound **381** (75 MHz,  $\text{CDCl}_3$ )

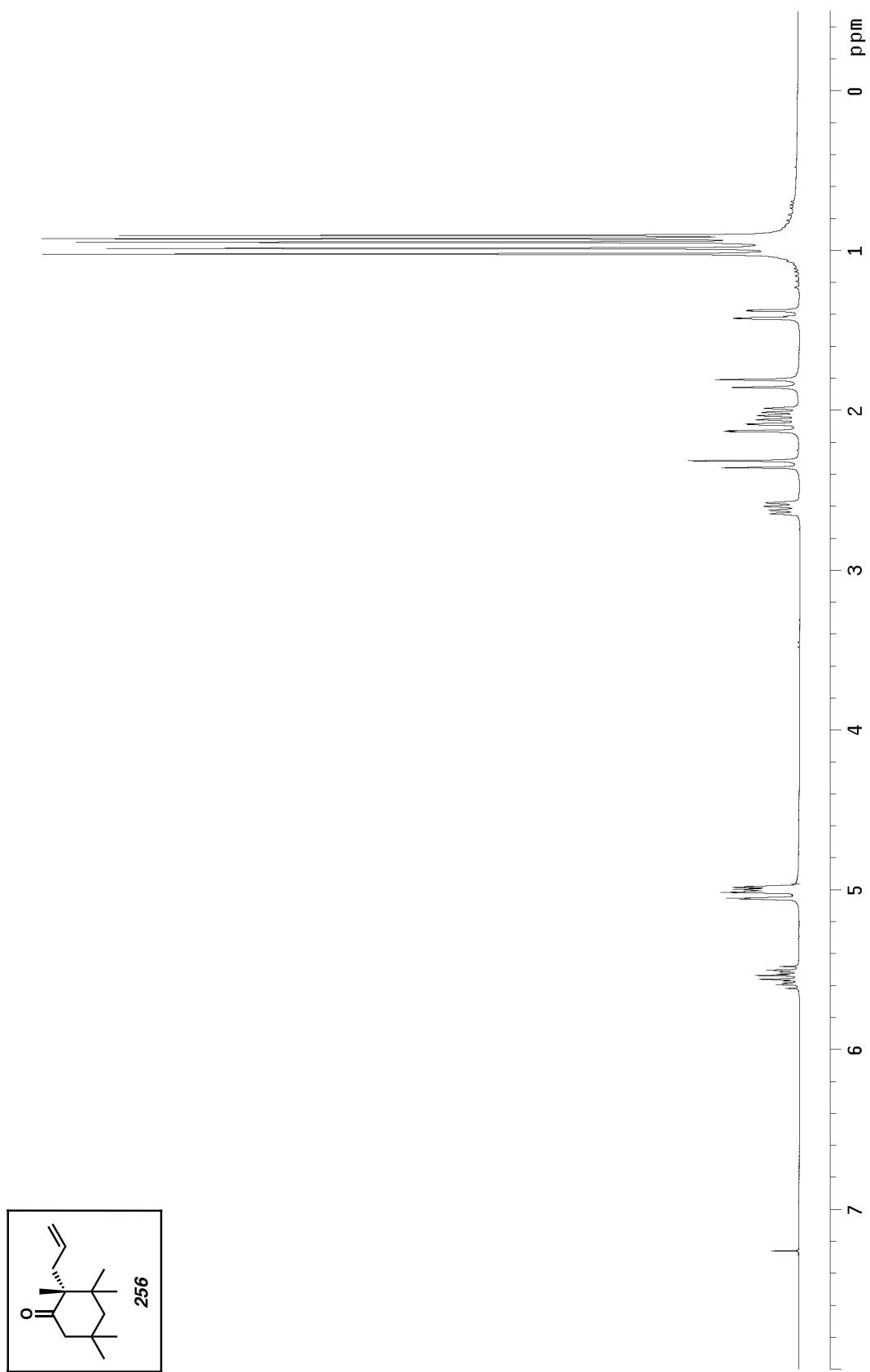
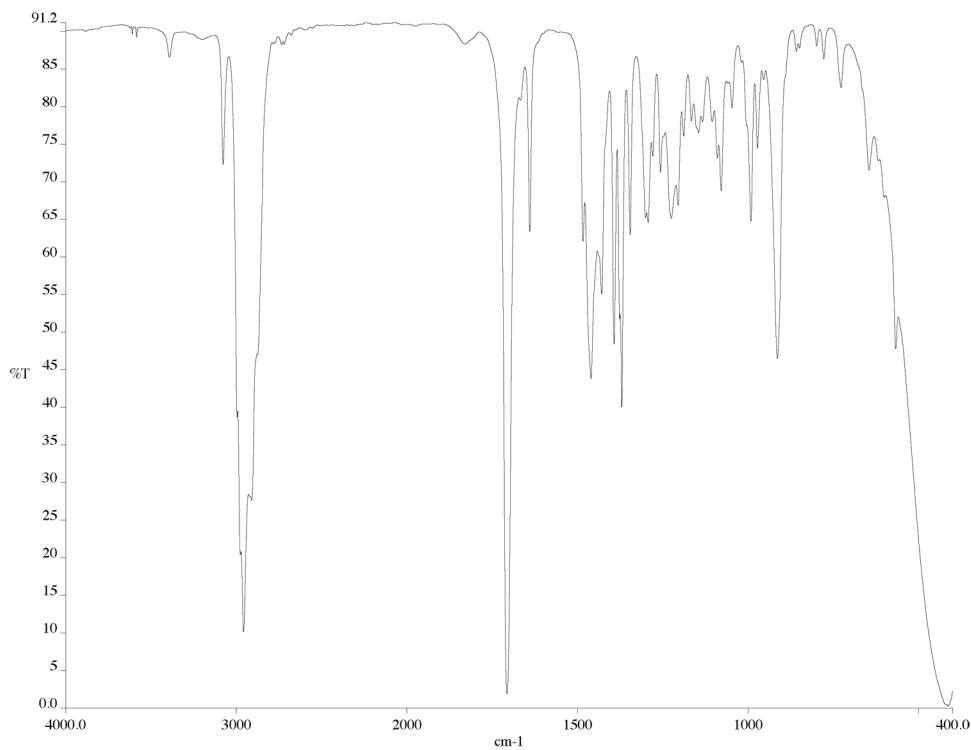
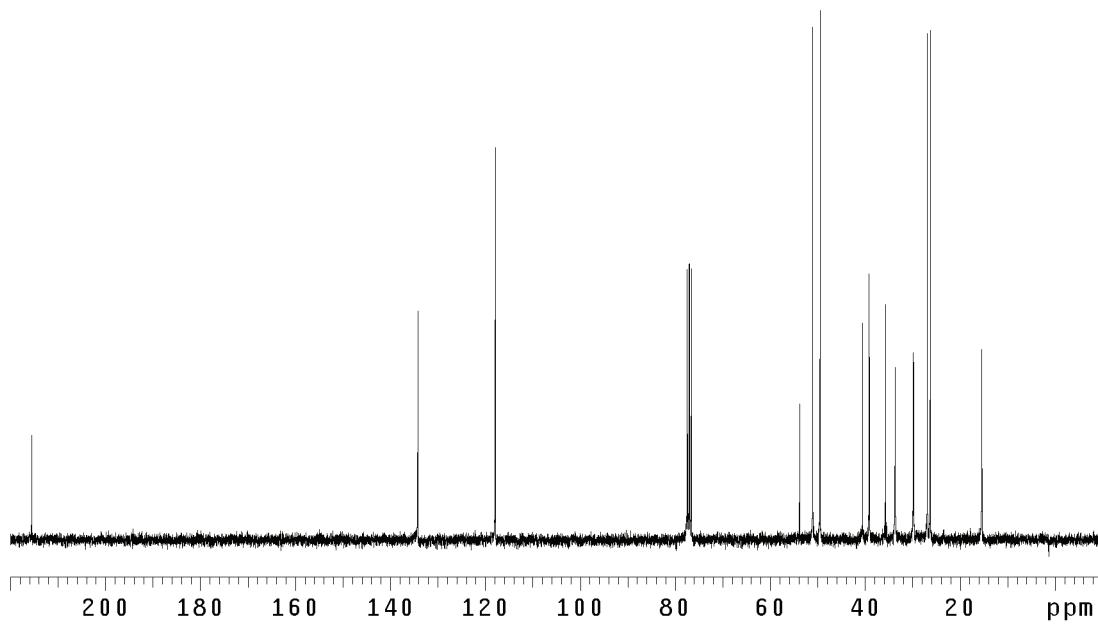


Figure A7.310 <sup>1</sup>H NMR of compound **256** (300 MHz, CDCl<sub>3</sub>)

Figure A7.311 IR of compound **256** (NaCl/film)Figure A7.312  $^{13}\text{C}$  NMR of compound **256** (75 MHz,  $\text{CDCl}_3$ )

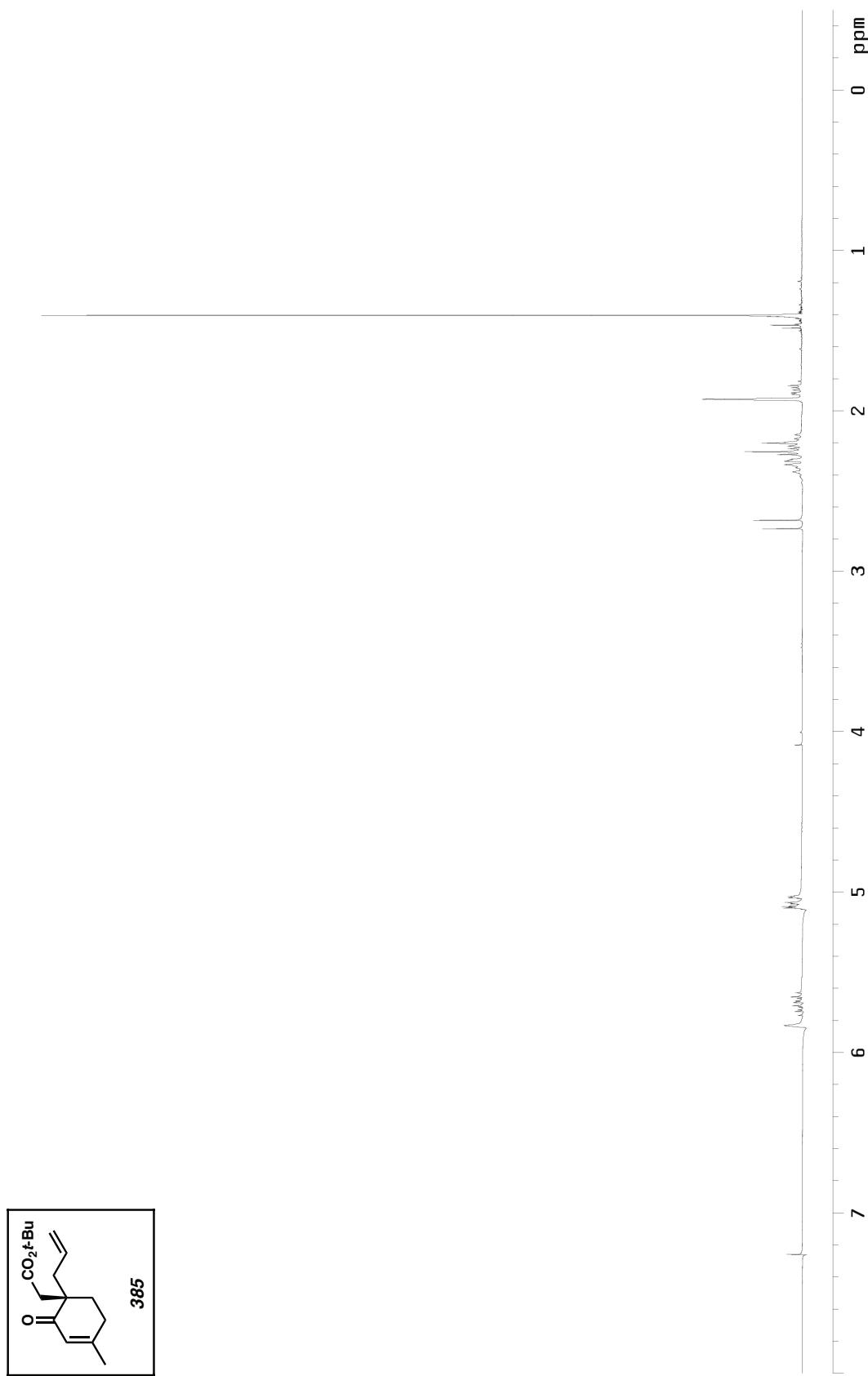


Figure A7.313  $^1\text{H}$  NMR of compound **385** (300 MHz,  $\text{CDCl}_3$ )

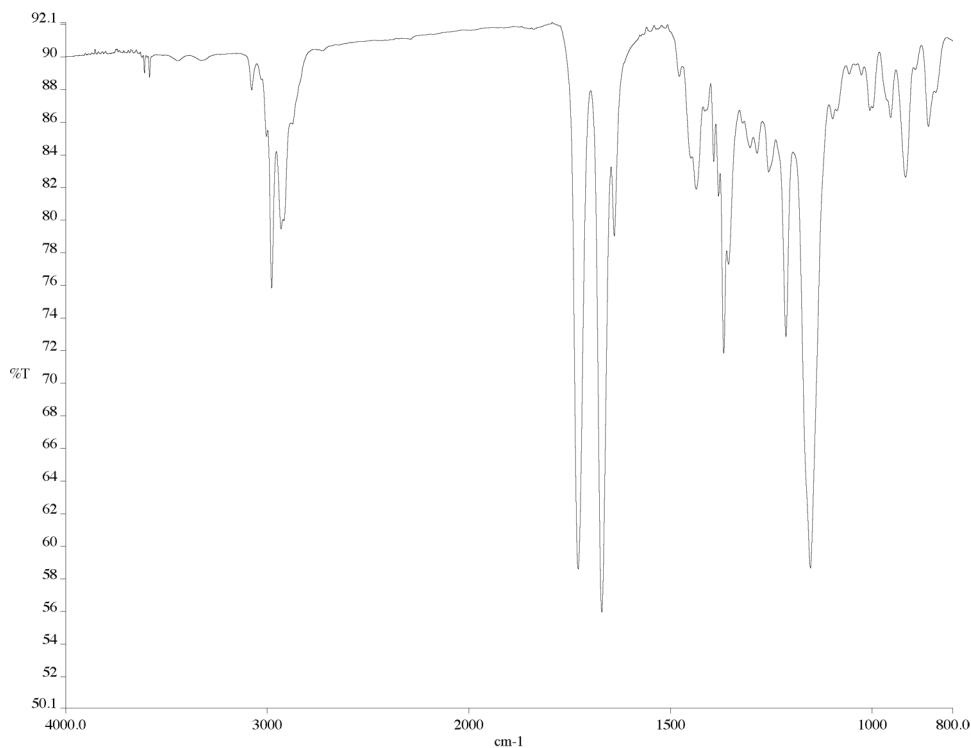


Figure A7.314 IR of compound **385** (NaCl/film)

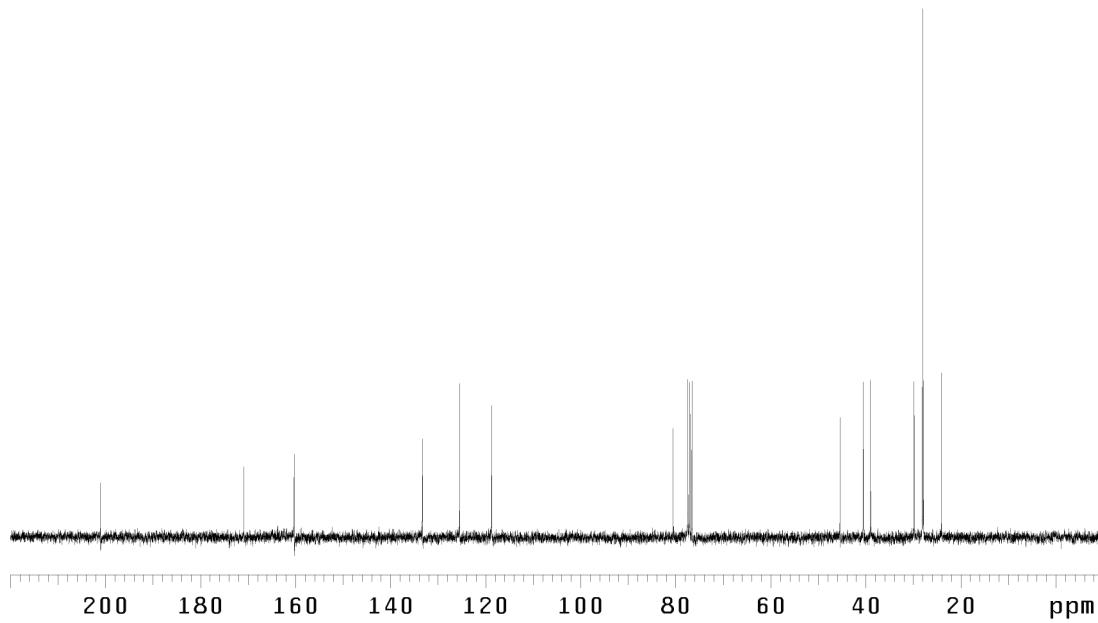


Figure A7.315 <sup>13</sup>C NMR of compound **385** (75 MHz, CDCl<sub>3</sub>)

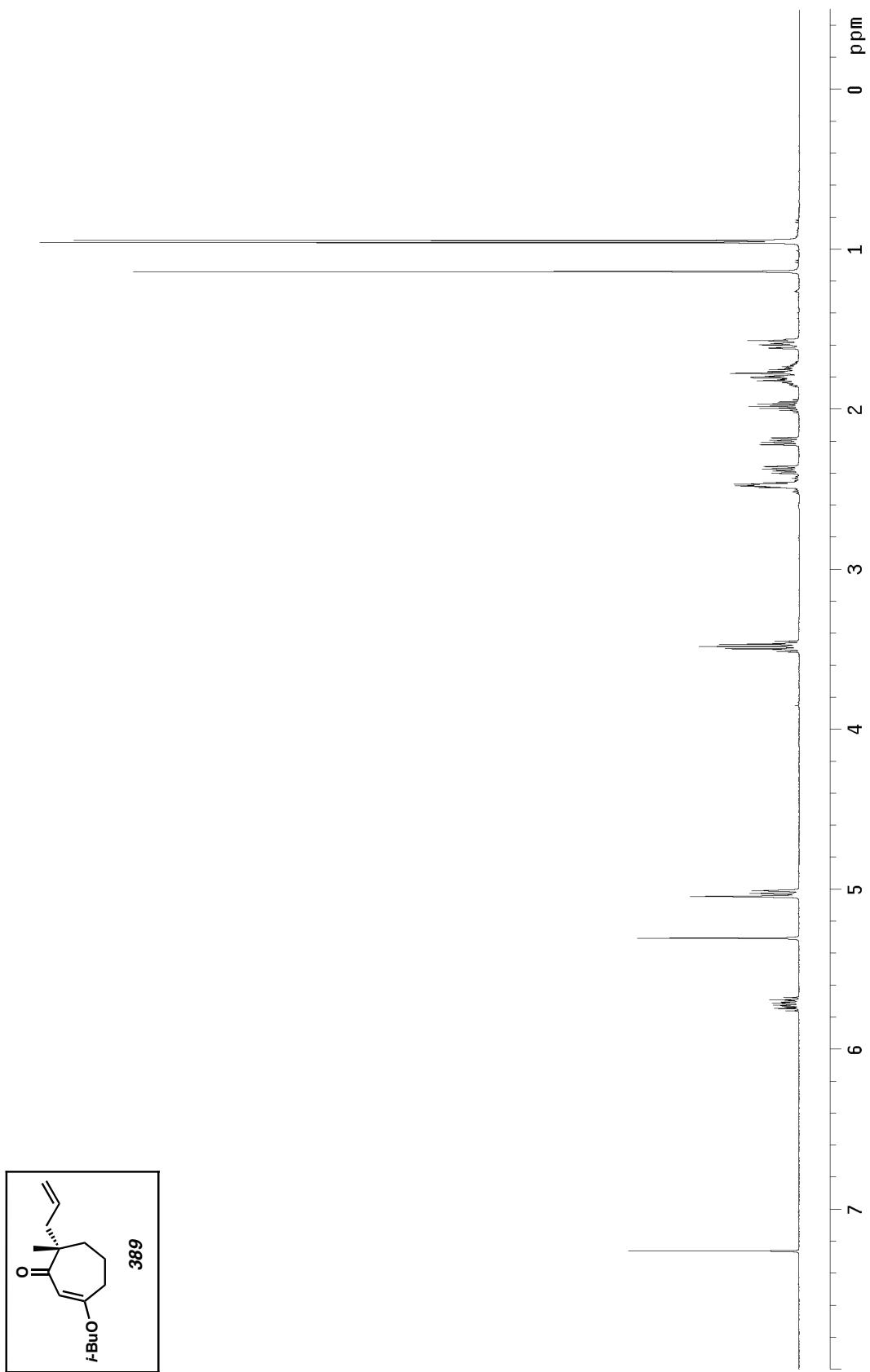


Figure A7.316  $^1\text{H}$  NMR of compound 389 (500 MHz,  $\text{CDCl}_3$ )

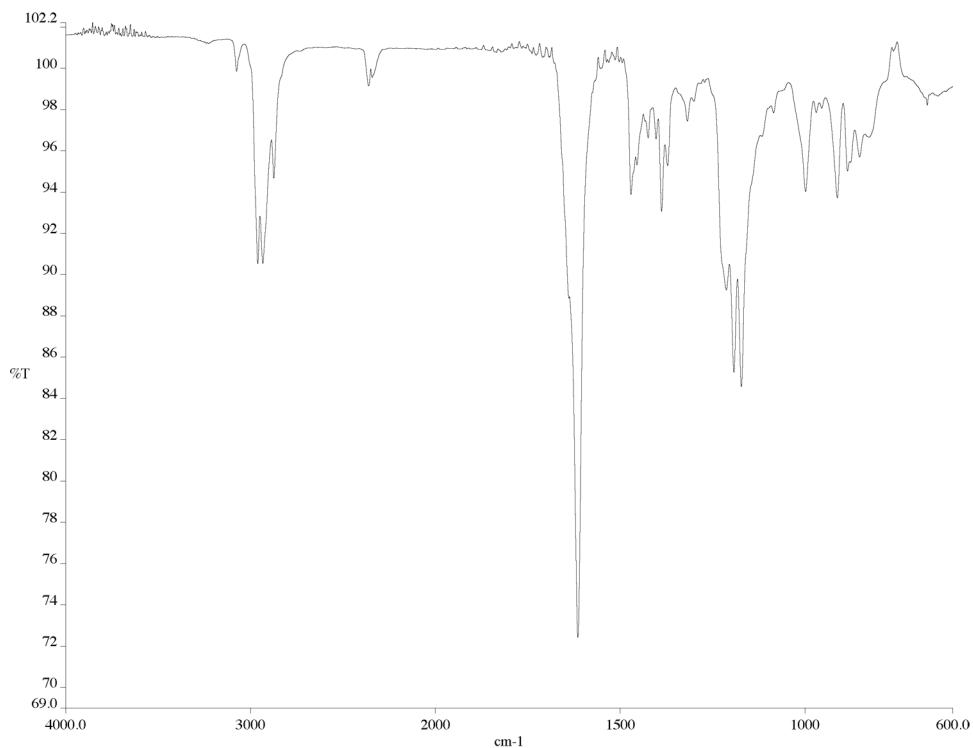


Figure A7.317 IR of compound **389** (NaCl/film)

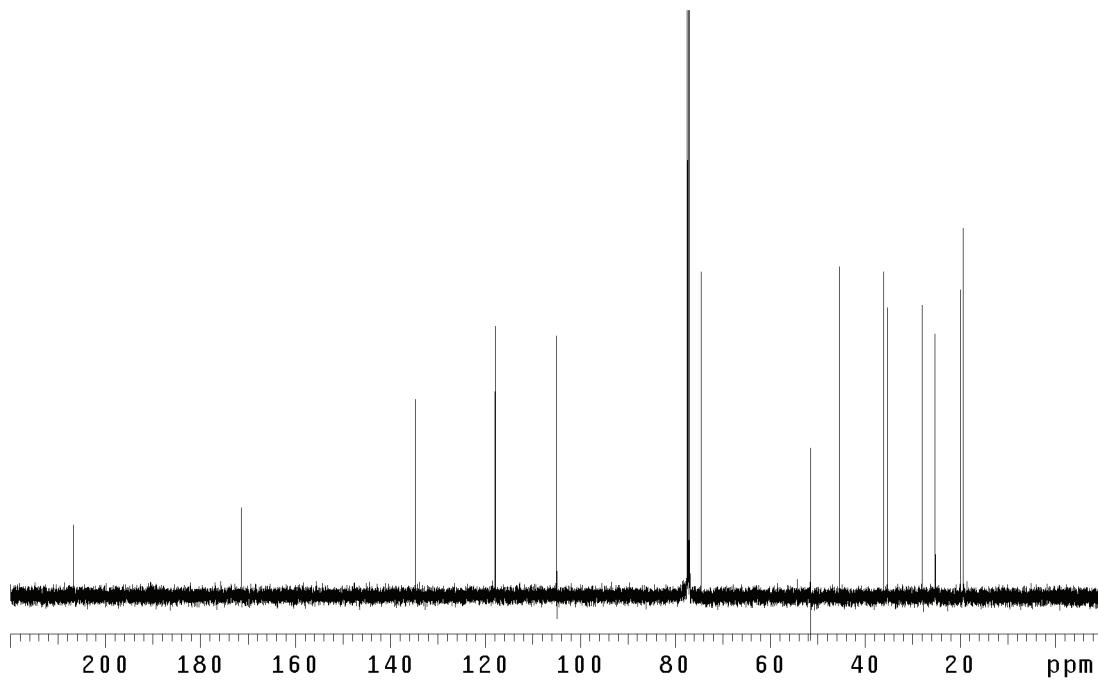


Figure A7.318 <sup>13</sup>C NMR of compound **389** (125 MHz, CDCl<sub>3</sub>)

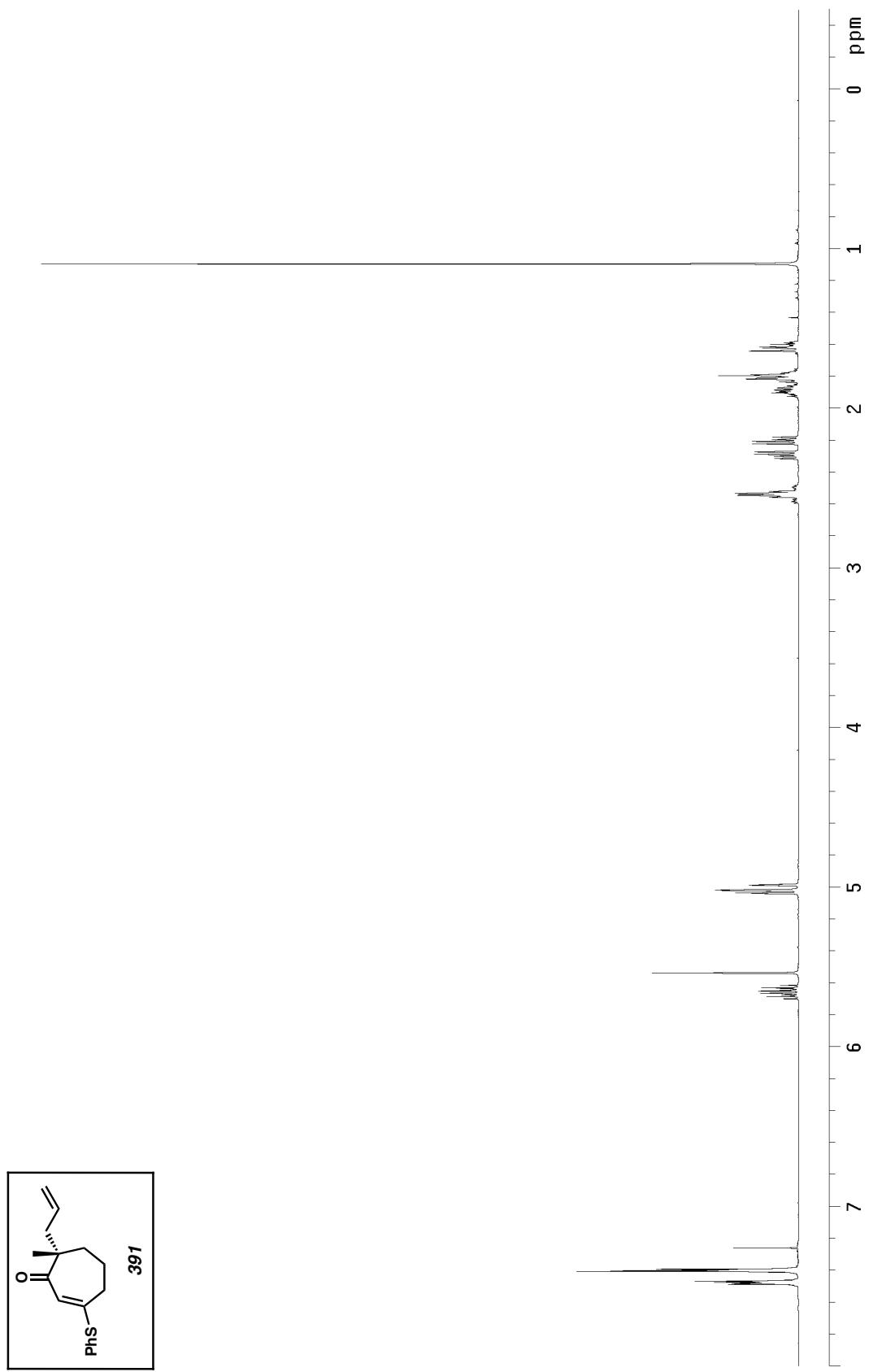


Figure A7.319  $^1\text{H}$  NMR of compound 391 (300 MHz,  $\text{CDCl}_3$ )

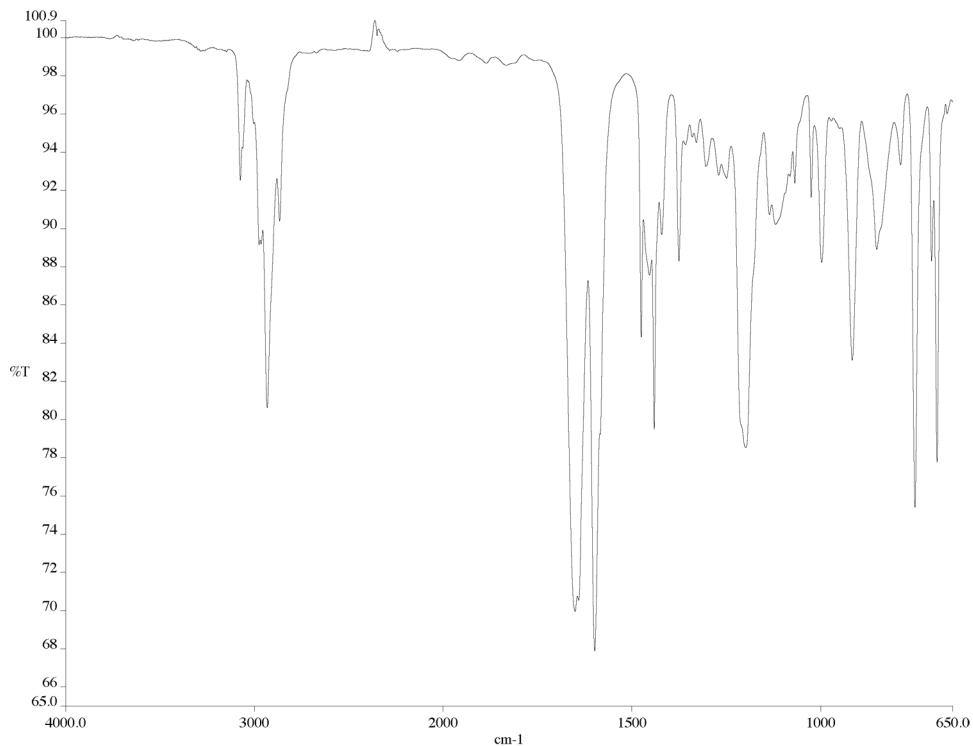


Figure A7.320 IR of compound **391** (NaCl/film)

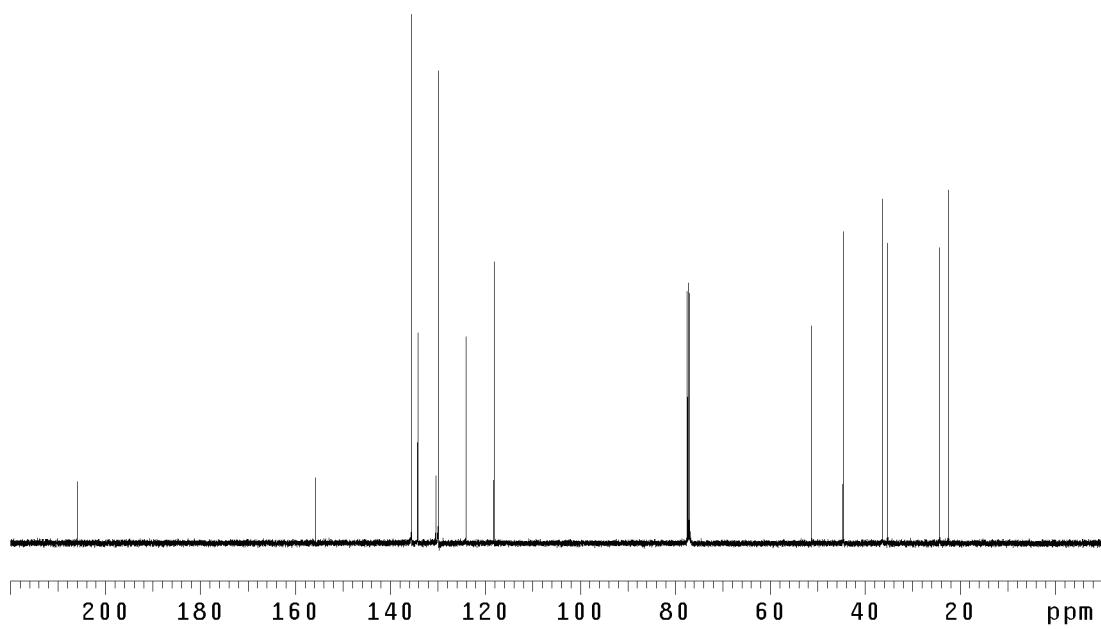


Figure A7.321 <sup>13</sup>C NMR of compound **391** (125 MHz, CDCl<sub>3</sub>)

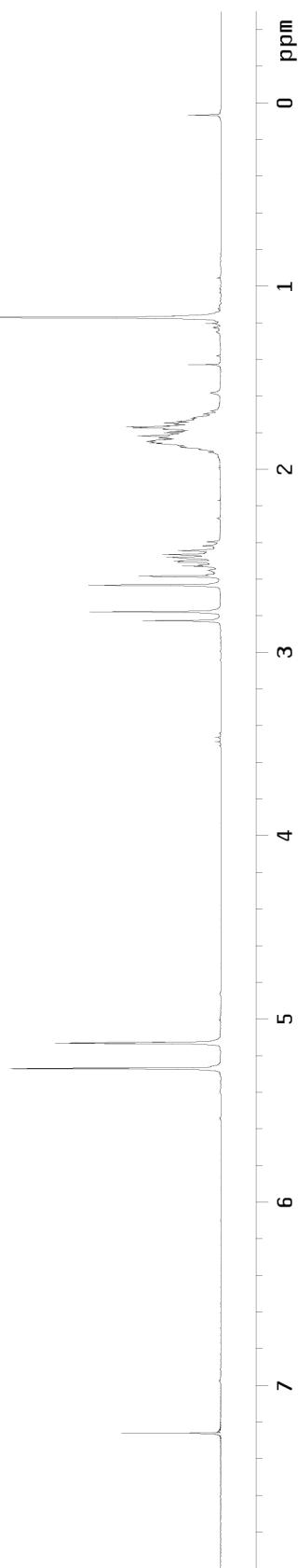
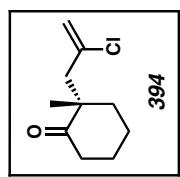


Figure A7.322 <sup>1</sup>H NMR of compound 394 (300 MHz, CDCl<sub>3</sub>)



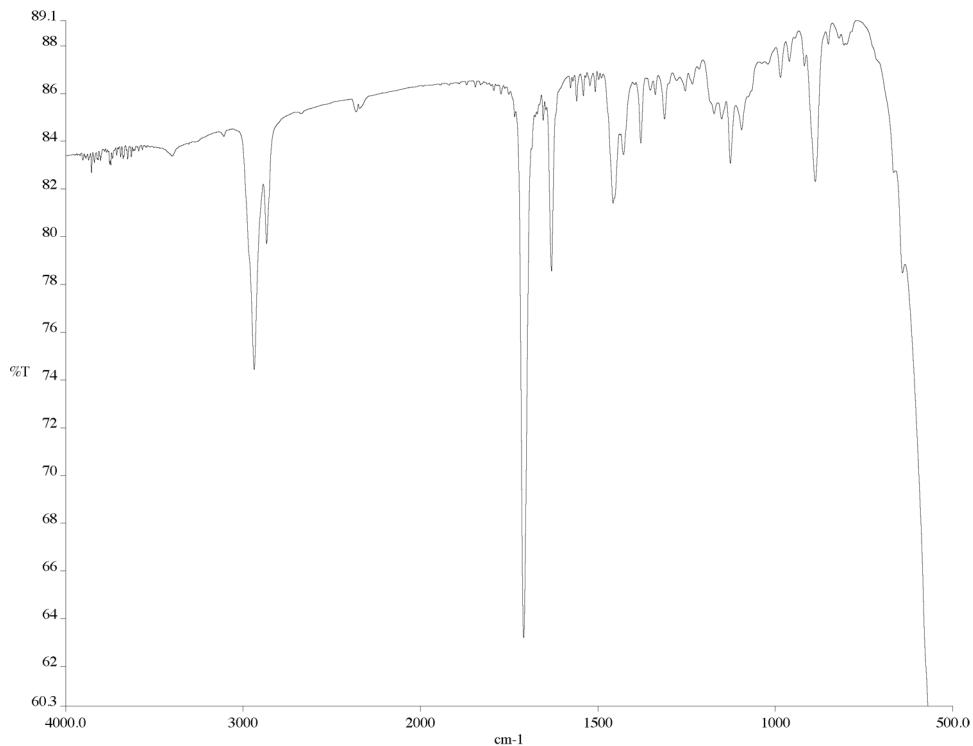


Figure A7.323 IR of compound **394** (NaCl/film)

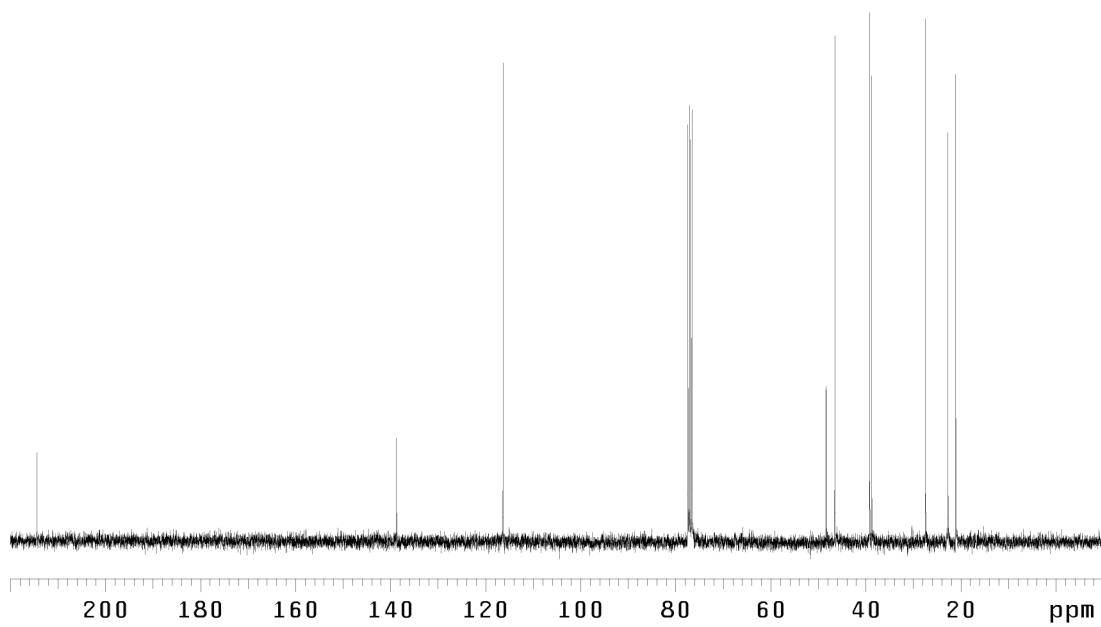


Figure A7.324 <sup>13</sup>C NMR of compound **394** (75 MHz, CDCl<sub>3</sub>)

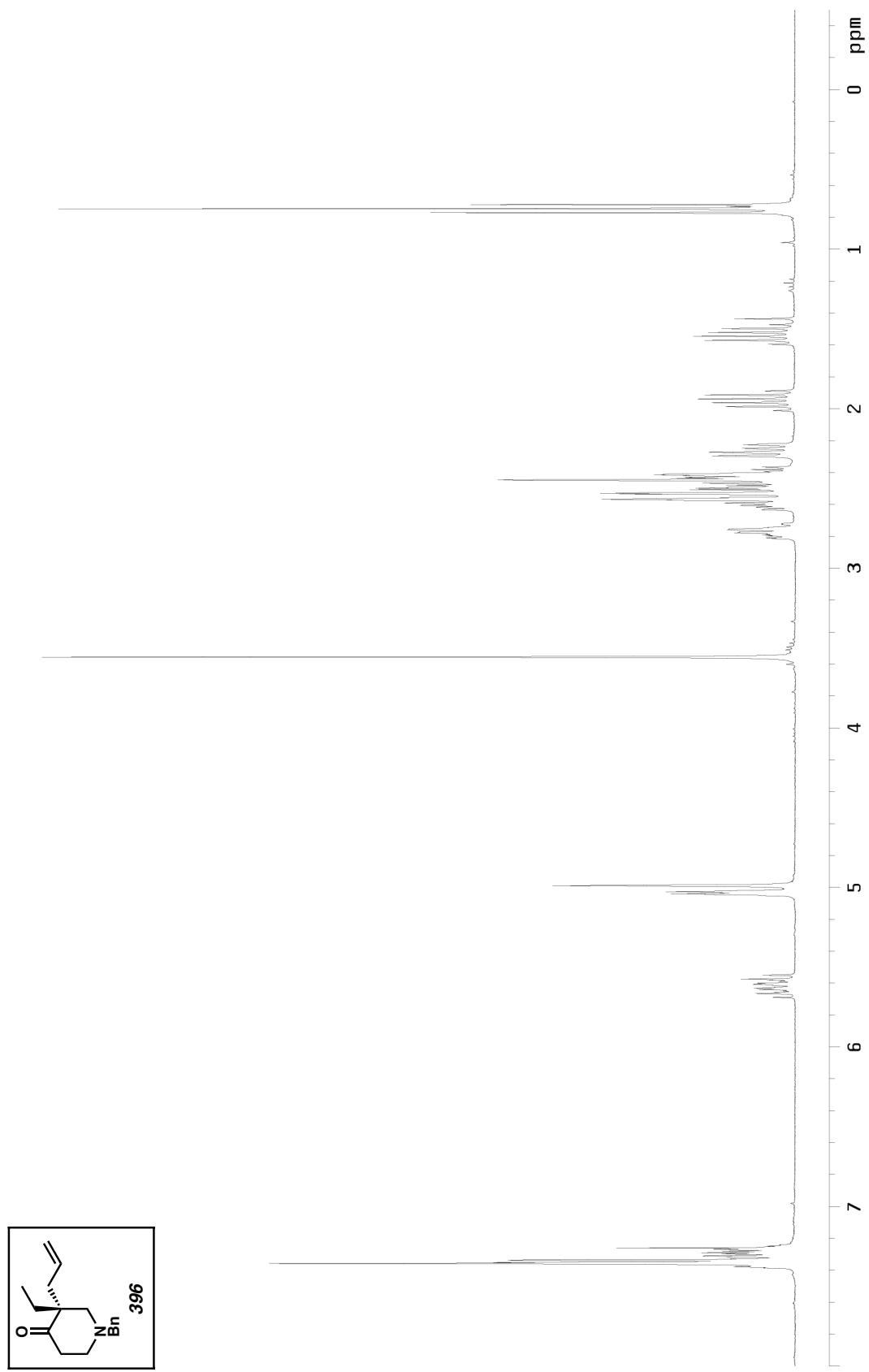


Figure A7.325  $^1\text{H}$  NMR of compound 396 (300 MHz,  $\text{CDCl}_3$ )

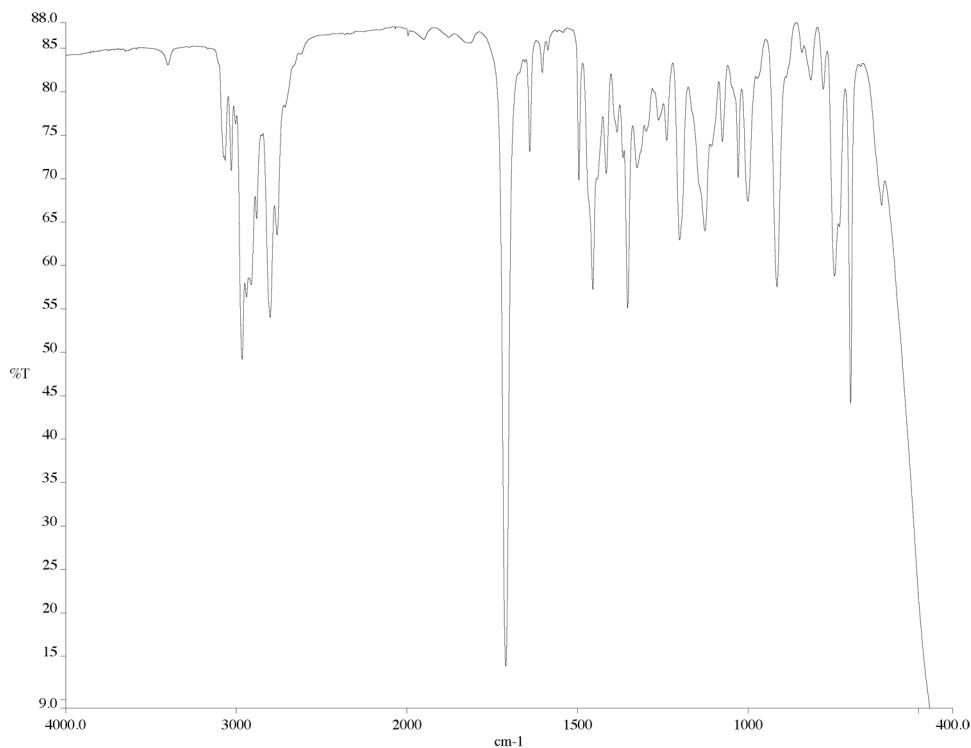


Figure A7.326 IR of compound **396** (NaCl/film)

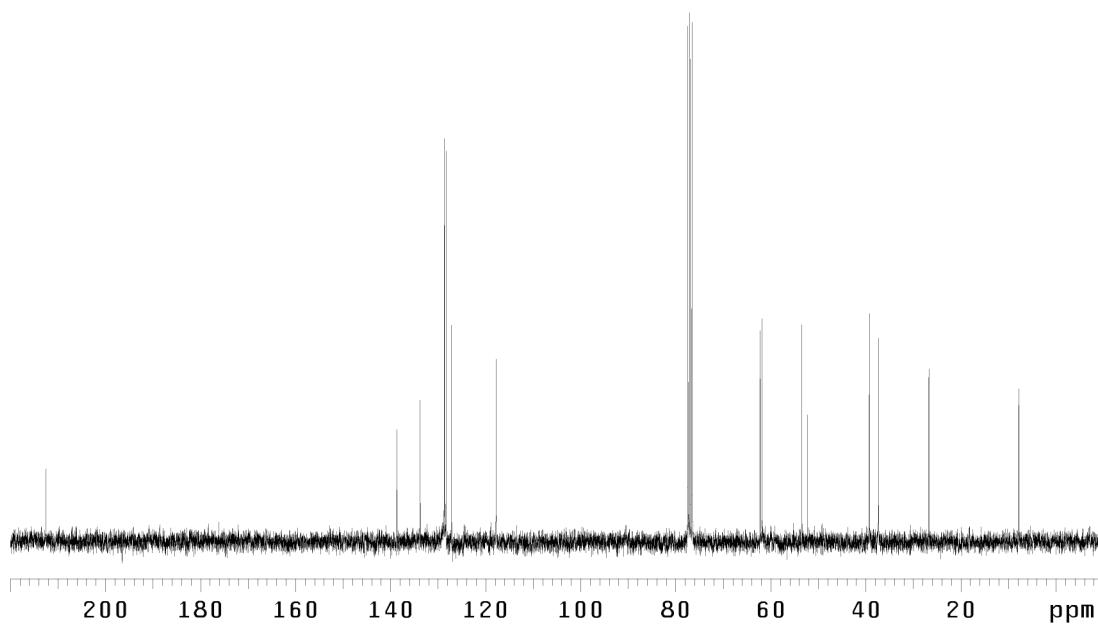


Figure A7.327 <sup>13</sup>C NMR of compound **396** (75 MHz, CDCl<sub>3</sub>)

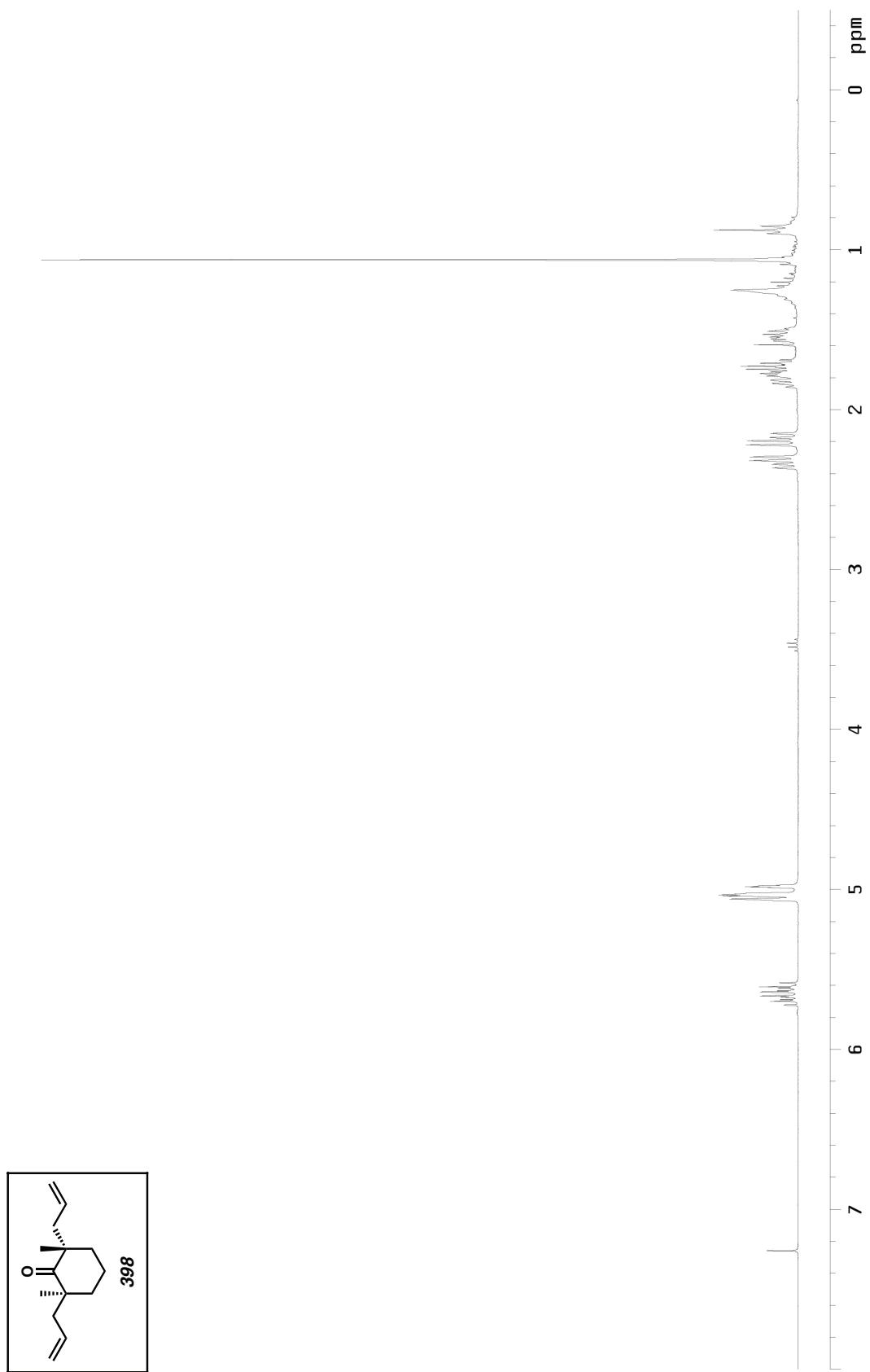


Figure A7.328  $^1\text{H}$  NMR of compound **398** (300 MHz, CDCl<sub>3</sub>)

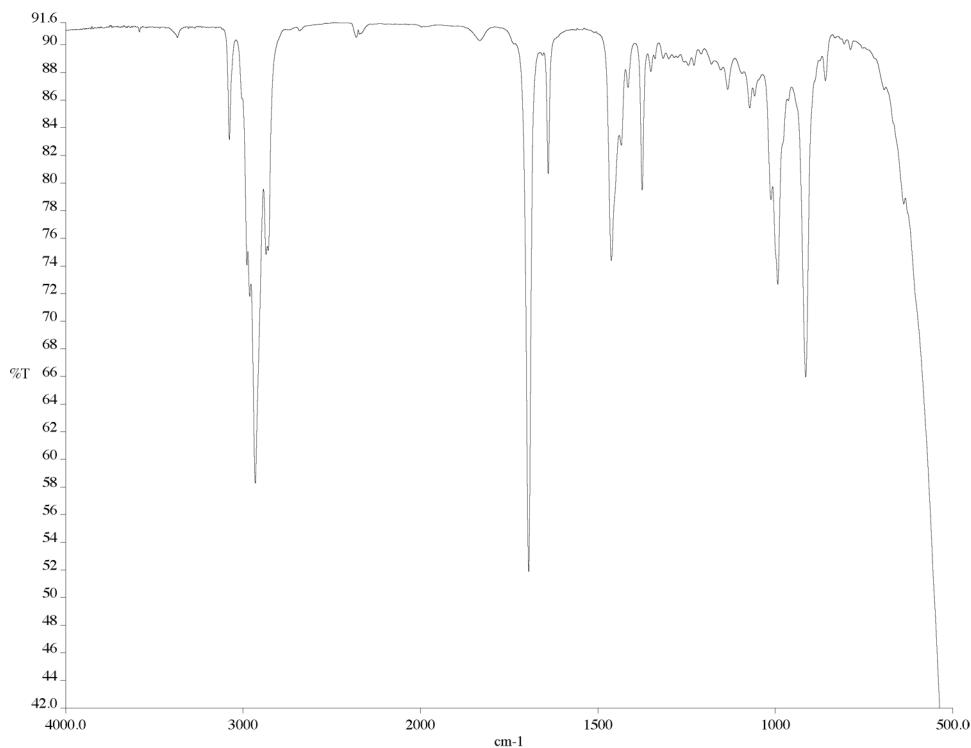


Figure A7.329 IR of compound **398** (NaCl/film)

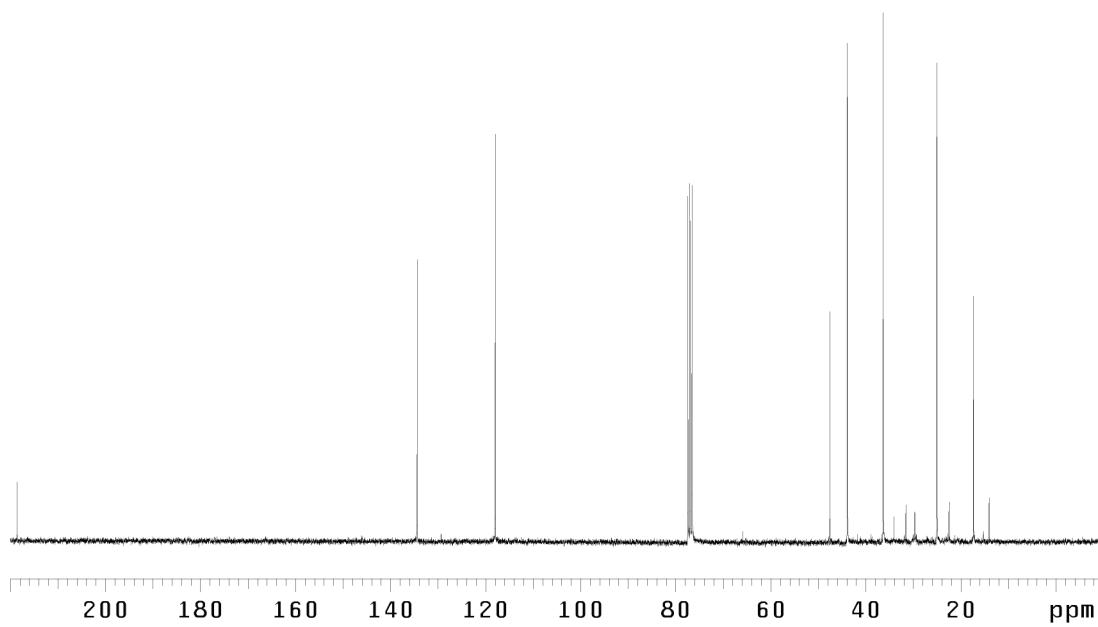


Figure A7.330 <sup>13</sup>C NMR of compound **398** (75 MHz, CDCl<sub>3</sub>)

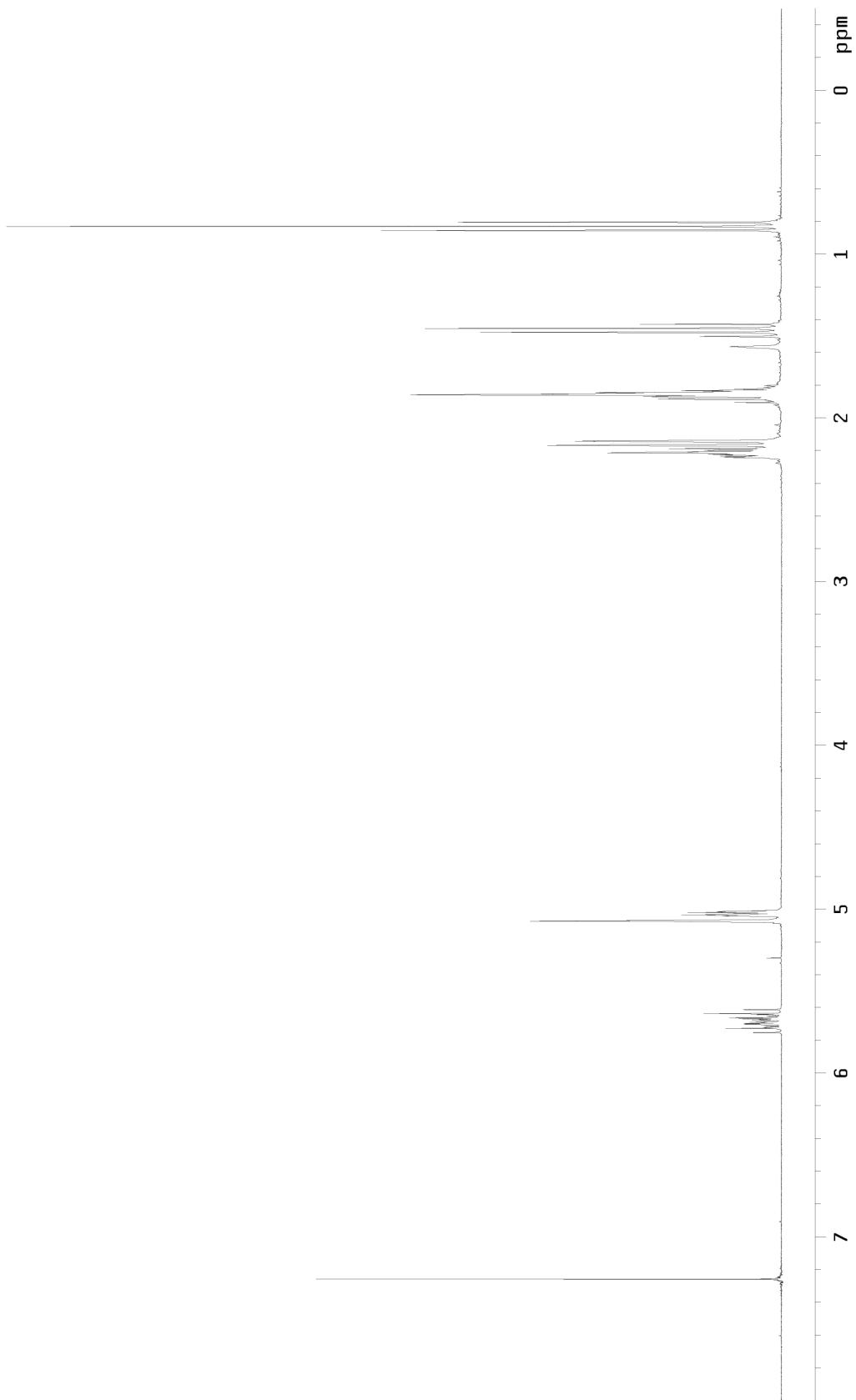


Figure A7.331 <sup>1</sup>H NMR of compound **407** (300 MHz, CDCl<sub>3</sub>)

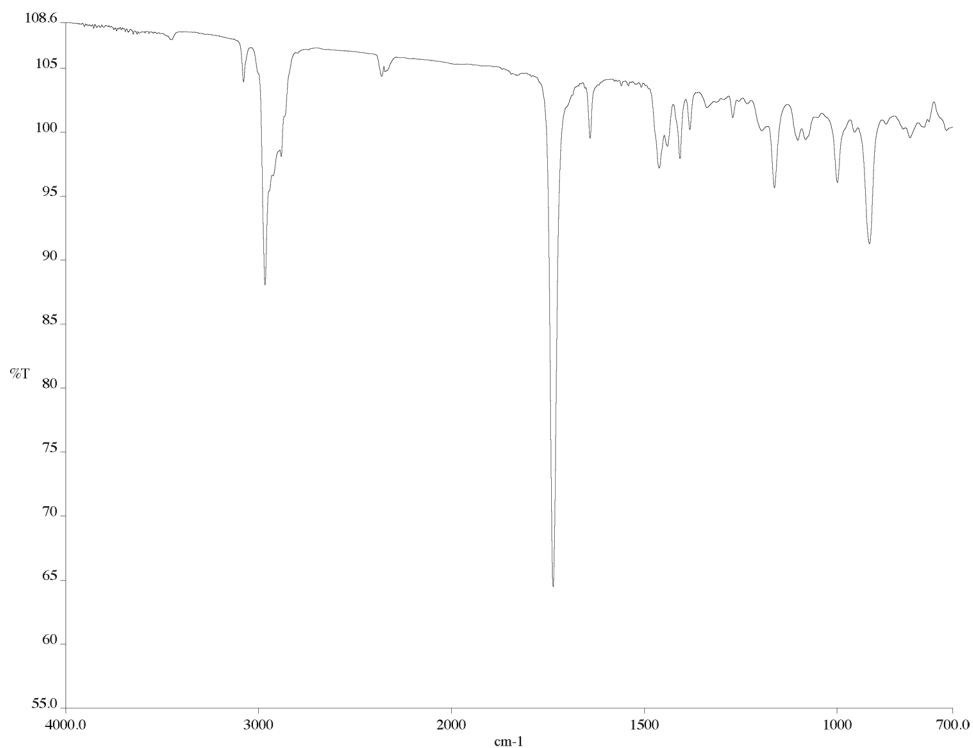


Figure A7.332 IR of compound **407** (NaCl/film)

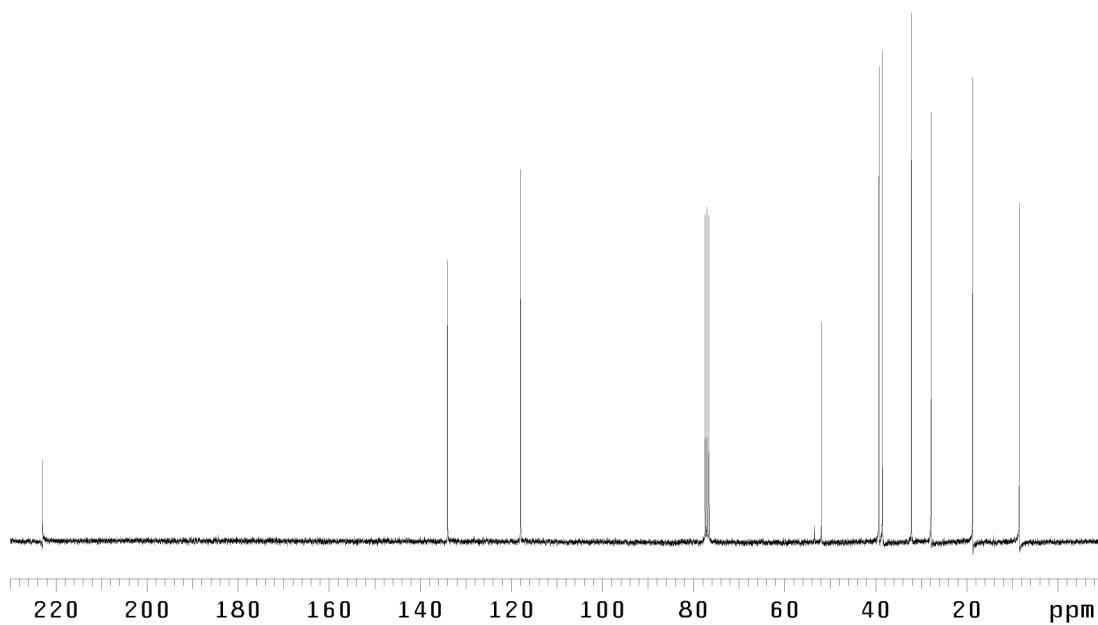


Figure A7.333 <sup>13</sup>C NMR of compound **407** (75 MHz, CDCl<sub>3</sub>)

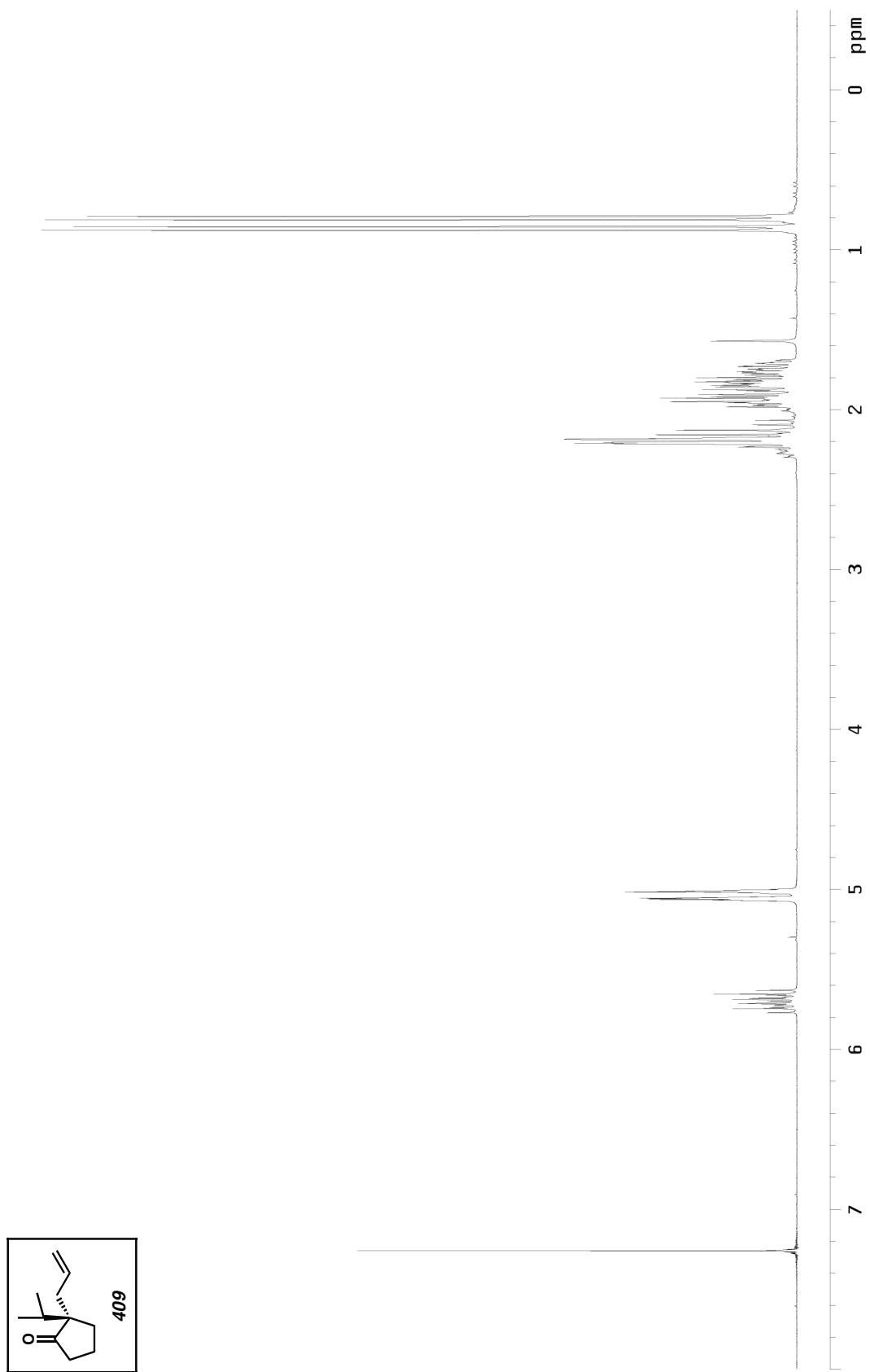


Figure A7.334  $^1\text{H}$  NMR of compound 409 (300 MHz,  $\text{CDCl}_3$ )

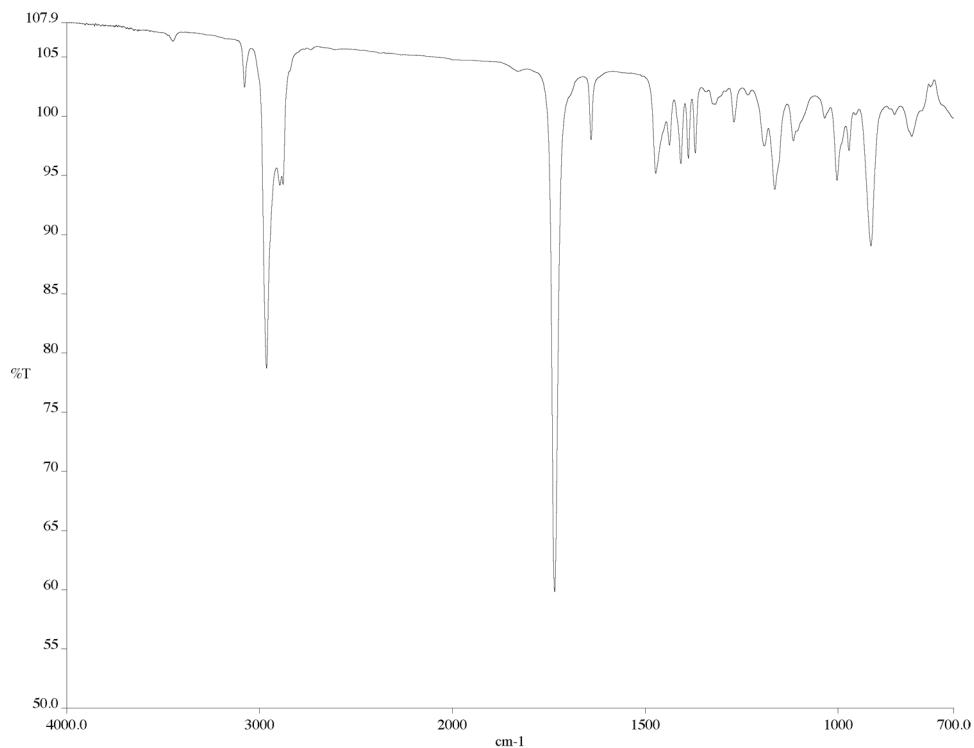


Figure A7.335 IR of compound **409** (NaCl/film)

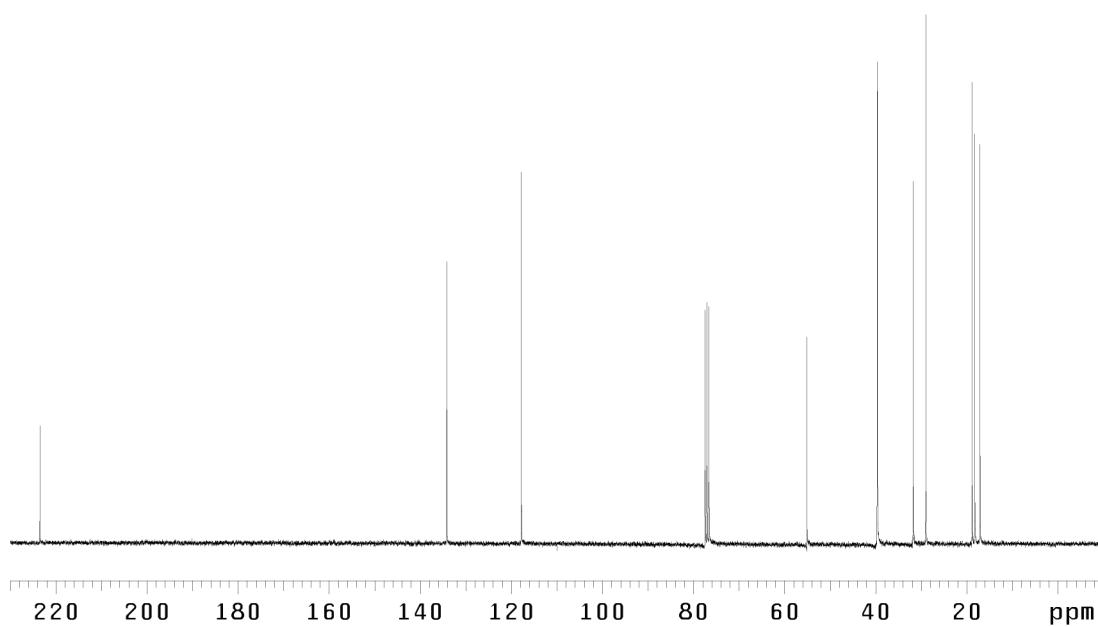
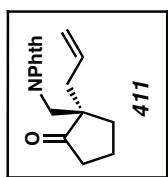


Figure A7.336  $^{13}\text{C}$  NMR of compound **409** (75 MHz,  $\text{CDCl}_3$ )



Figure A7.337 <sup>1</sup>H NMR of compound 411 (300 MHz, CDCl<sub>3</sub>)



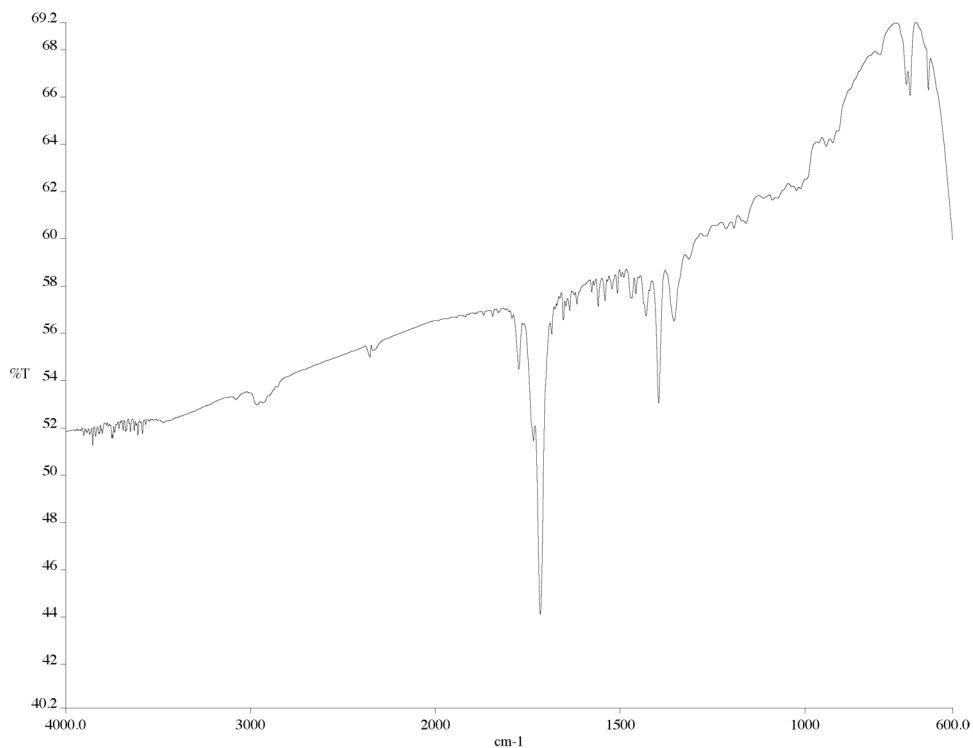


Figure A7.338 IR of compound **411** (NaCl/film)

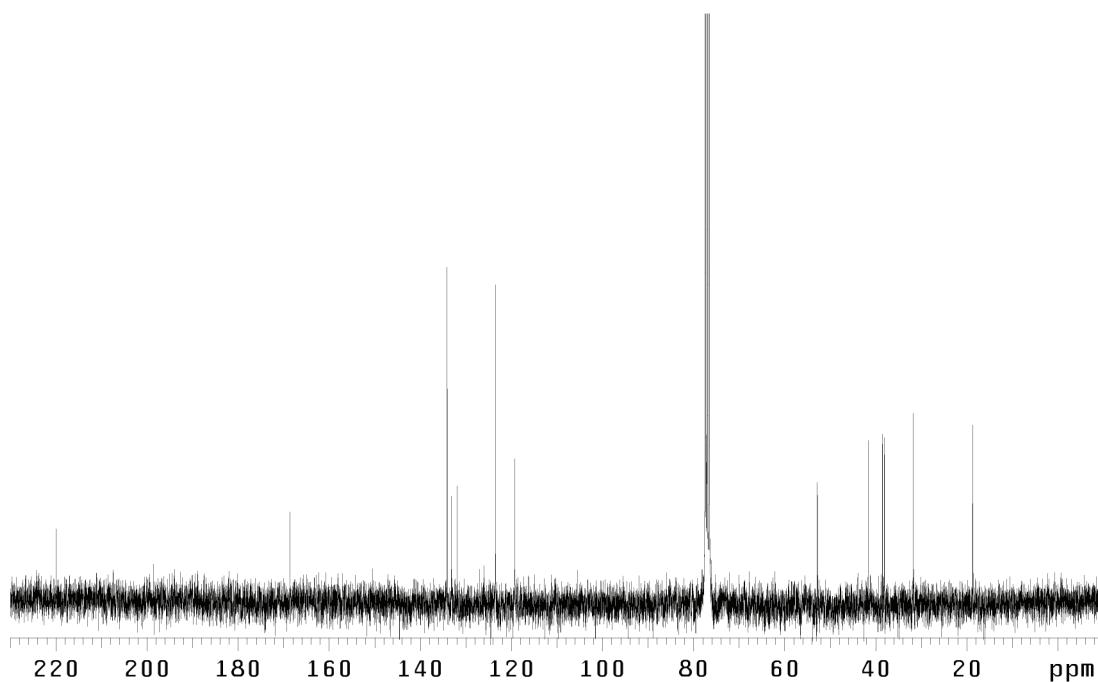


Figure A7.339 <sup>13</sup>C NMR of compound **411** (75 MHz, CDCl<sub>3</sub>)

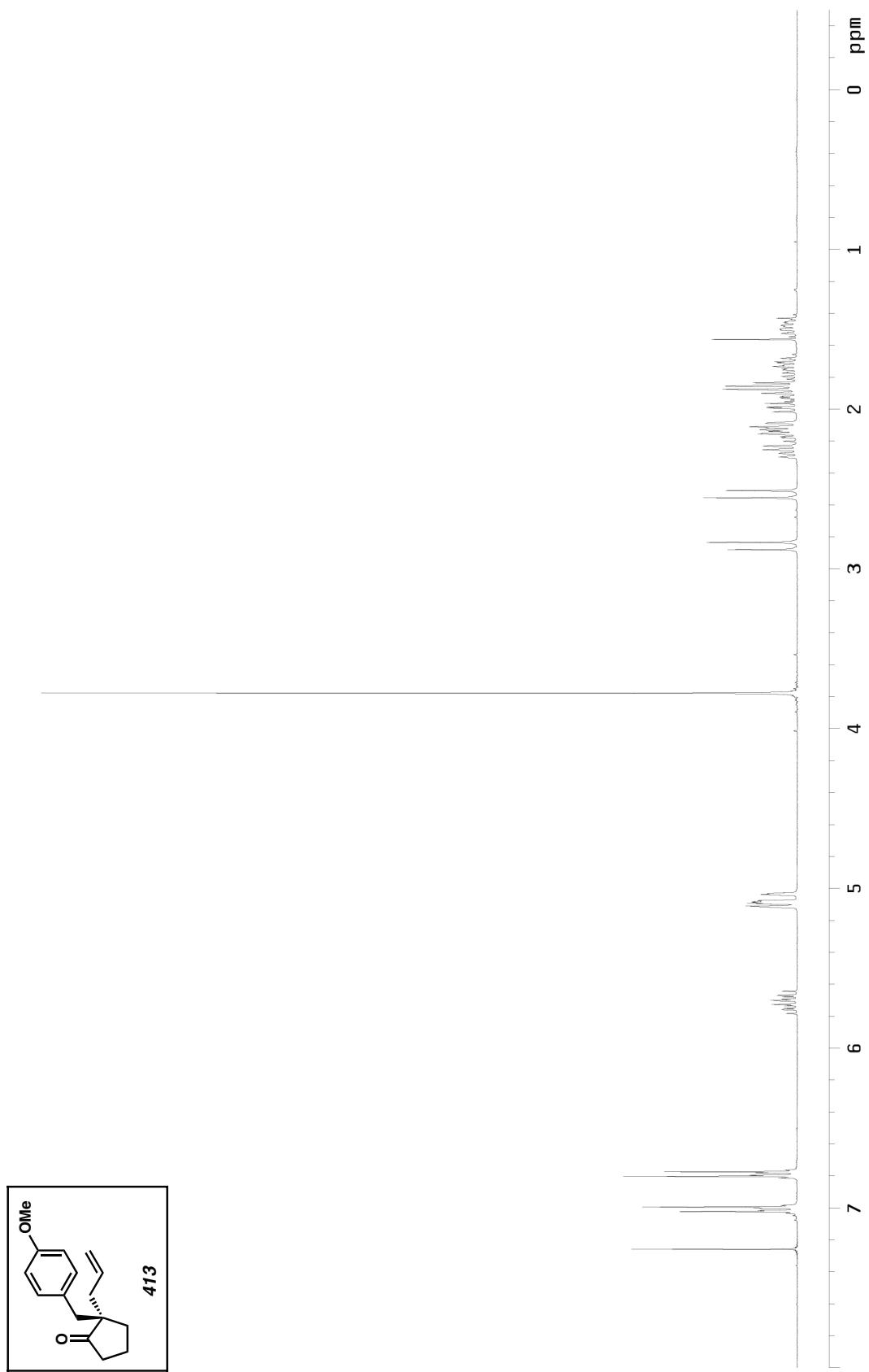


Figure A7.340  $^1\text{H}$  NMR of compound 413 (300 MHz,  $\text{CDCl}_3$ )

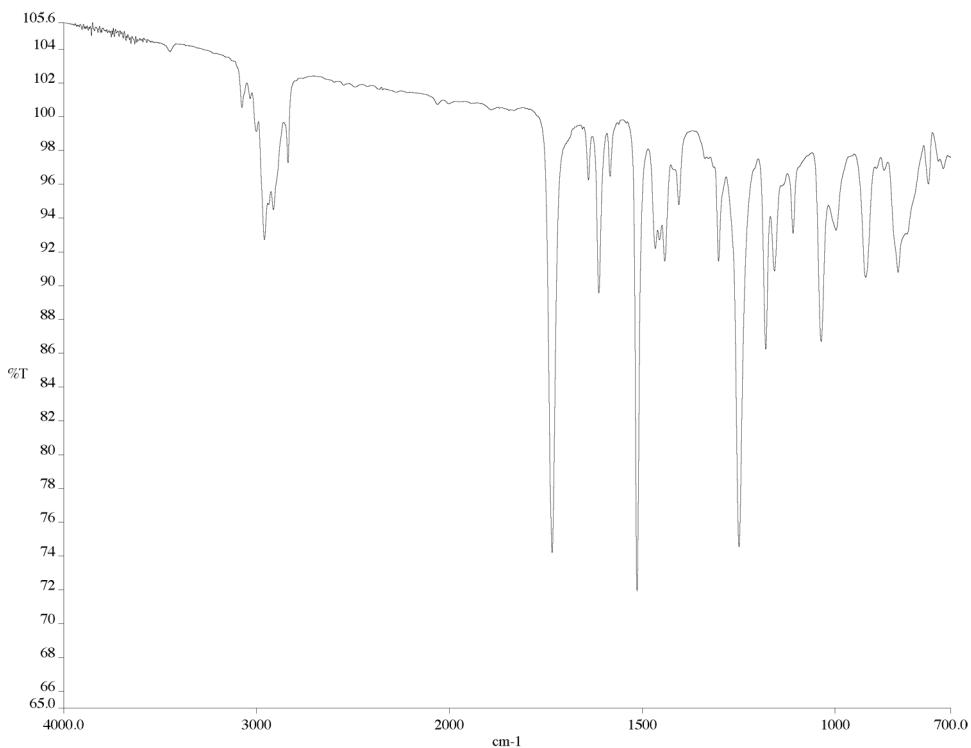


Figure A7.341 IR of compound **413** (NaCl/film)

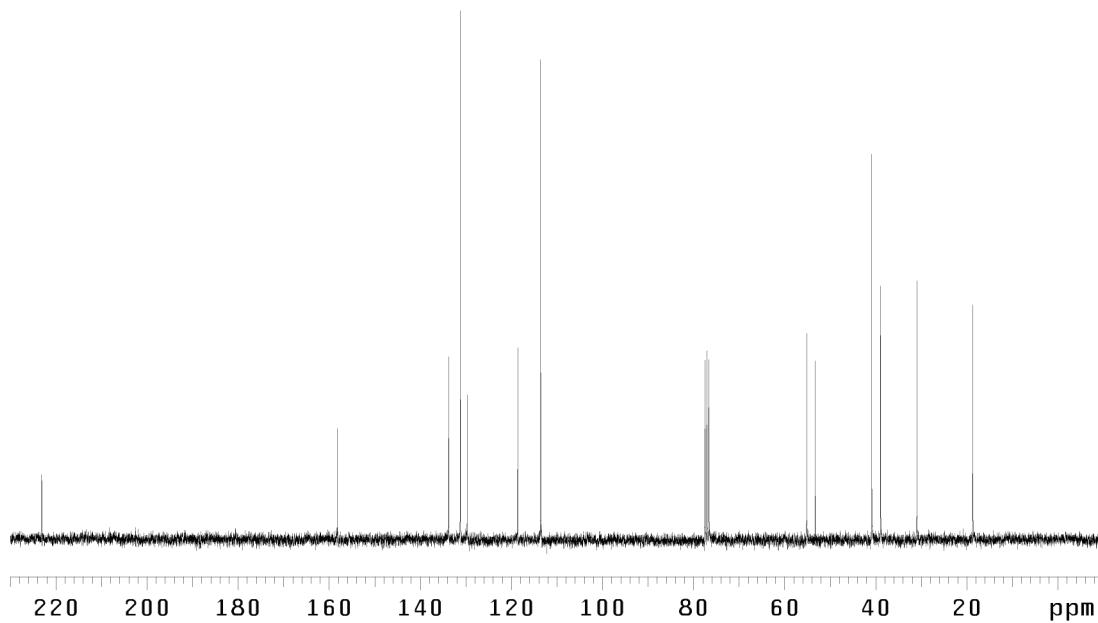


Figure A7.342 <sup>13</sup>C NMR of compound **413** (75 MHz, CDCl<sub>3</sub>)

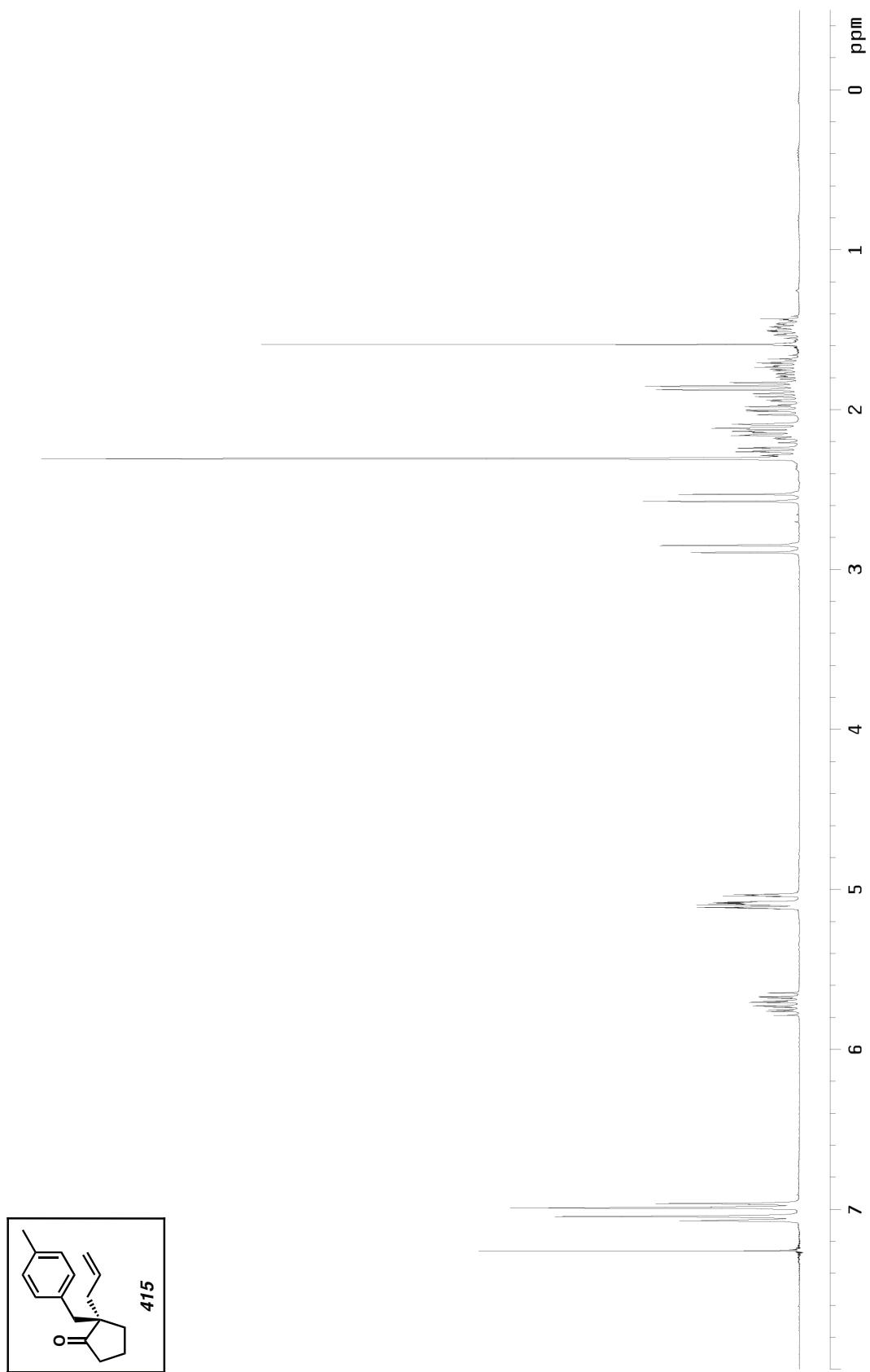


Figure A7.343  $^1\text{H}$  NMR of compound 415 (300 MHz,  $\text{CDCl}_3$ )

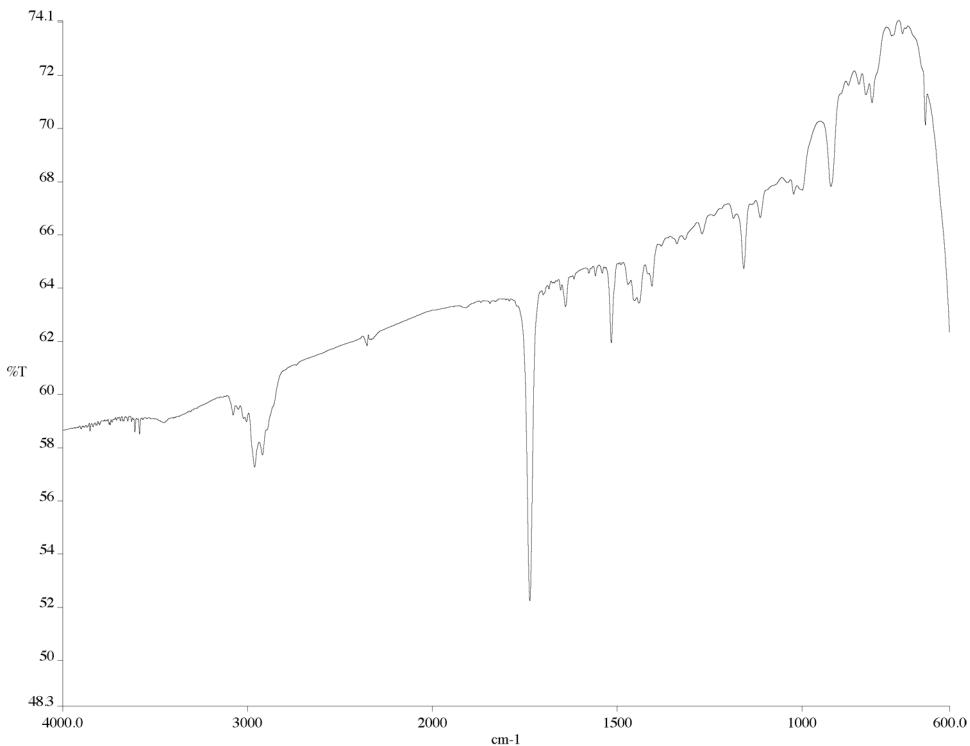


Figure A7.344 IR of compound **415** (NaCl/film)

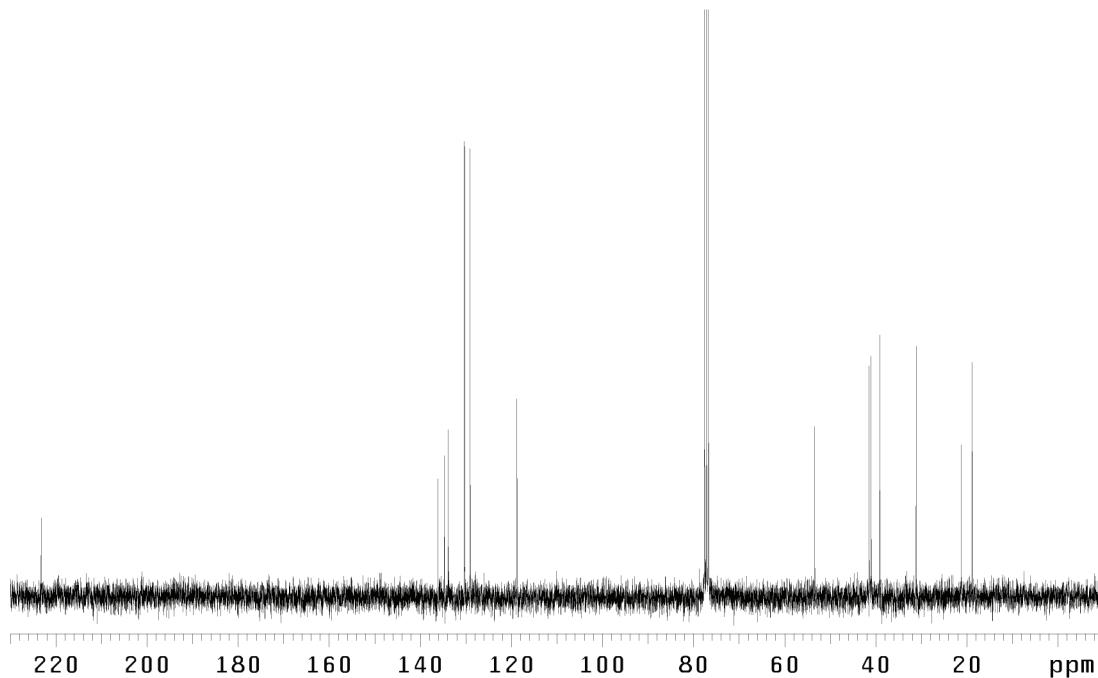


Figure A7.345 <sup>13</sup>C NMR of compound **415** (75 MHz, CDCl<sub>3</sub>)

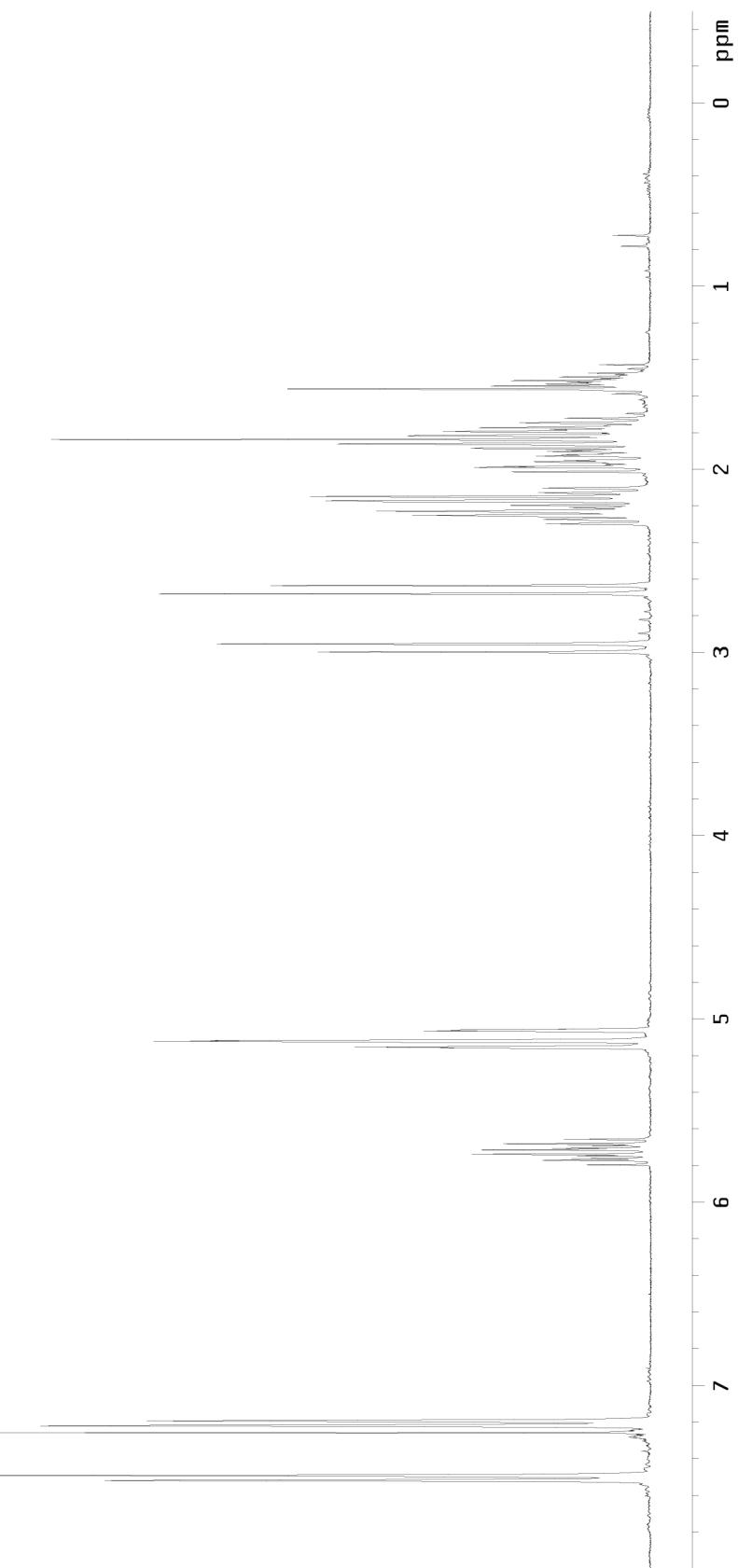
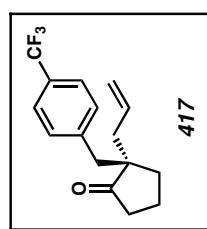


Figure A7.346 <sup>1</sup>H NMR of compound 417 (300 MHz, CDCl<sub>3</sub>)

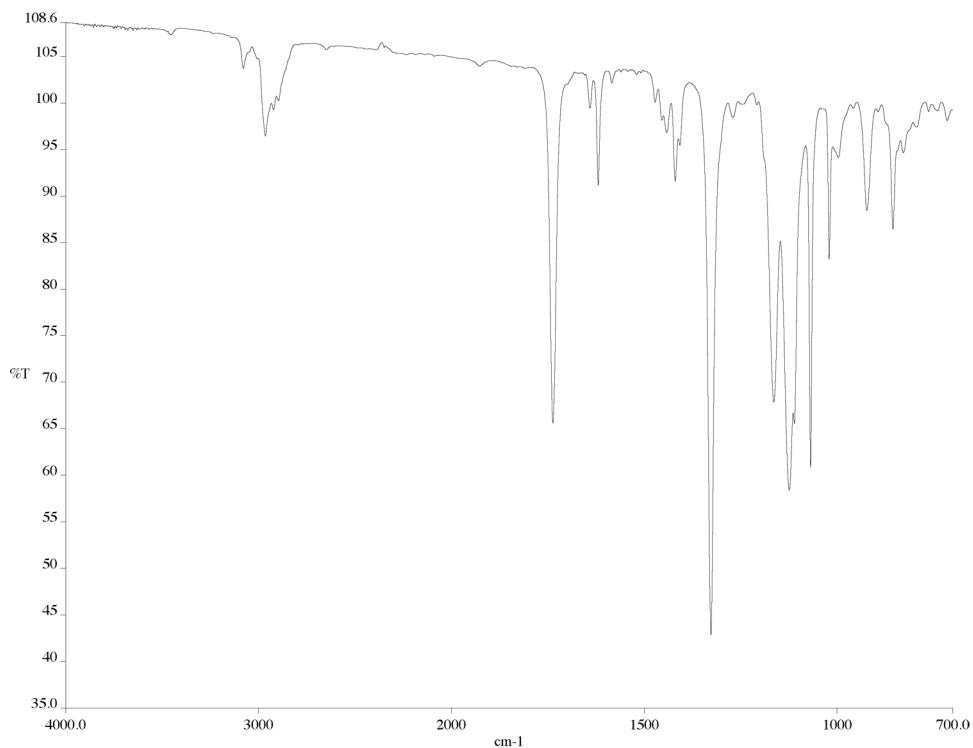


Figure A7.347 IR of compound **417** (NaCl/film)

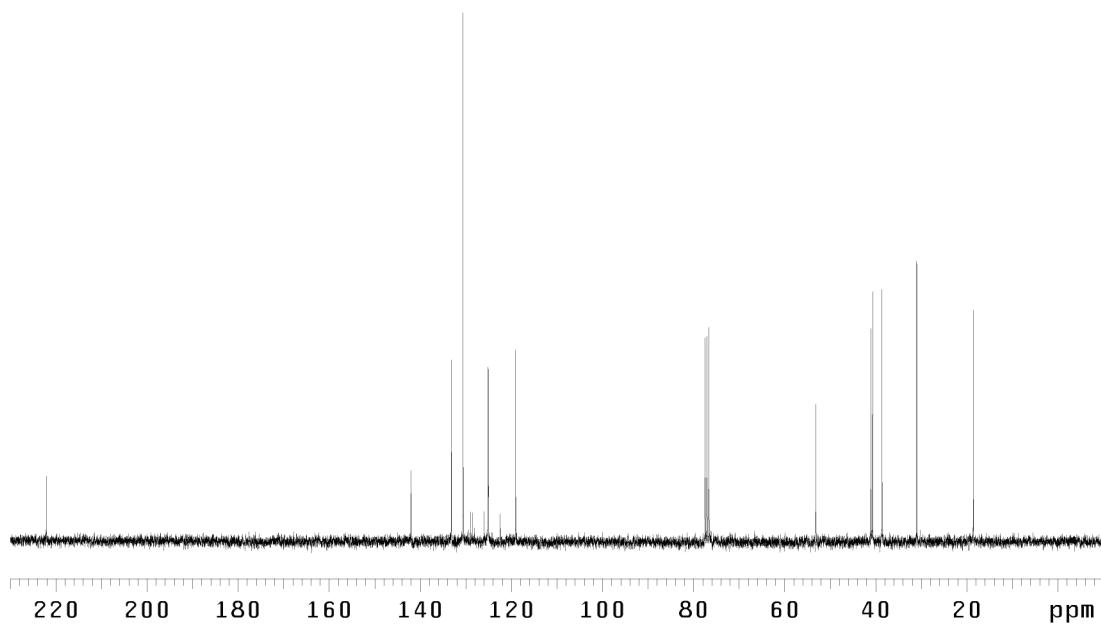


Figure A7.348 <sup>13</sup>C NMR of compound **417** (75 MHz, CDCl<sub>3</sub>)



Figure A7.349  $^1\text{H}$  NMR of compound 421 (300 MHz,  $\text{CDCl}_3$ )

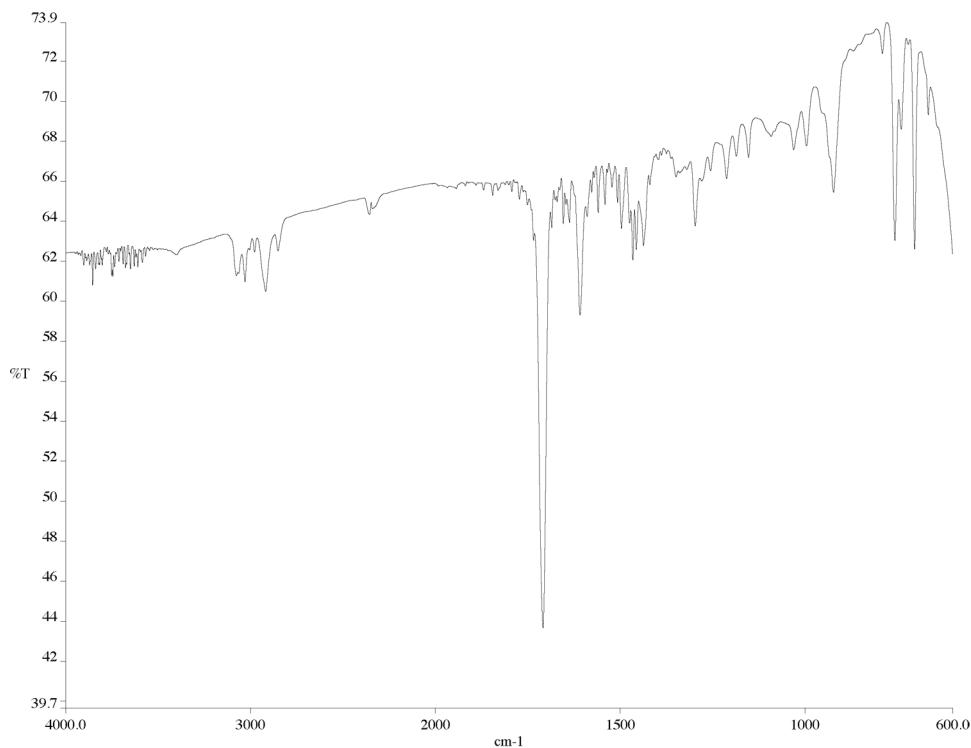


Figure A7.350 IR of compound **421** (NaCl/film)

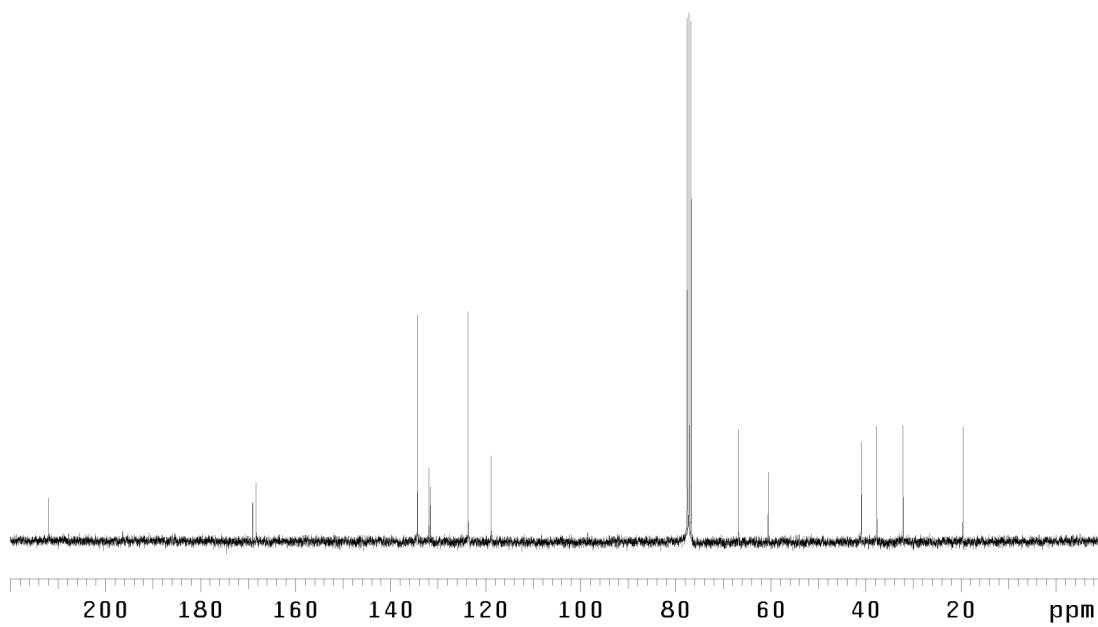


Figure A7.351 <sup>13</sup>C NMR of compound **421** (75 MHz, CDCl<sub>3</sub>)

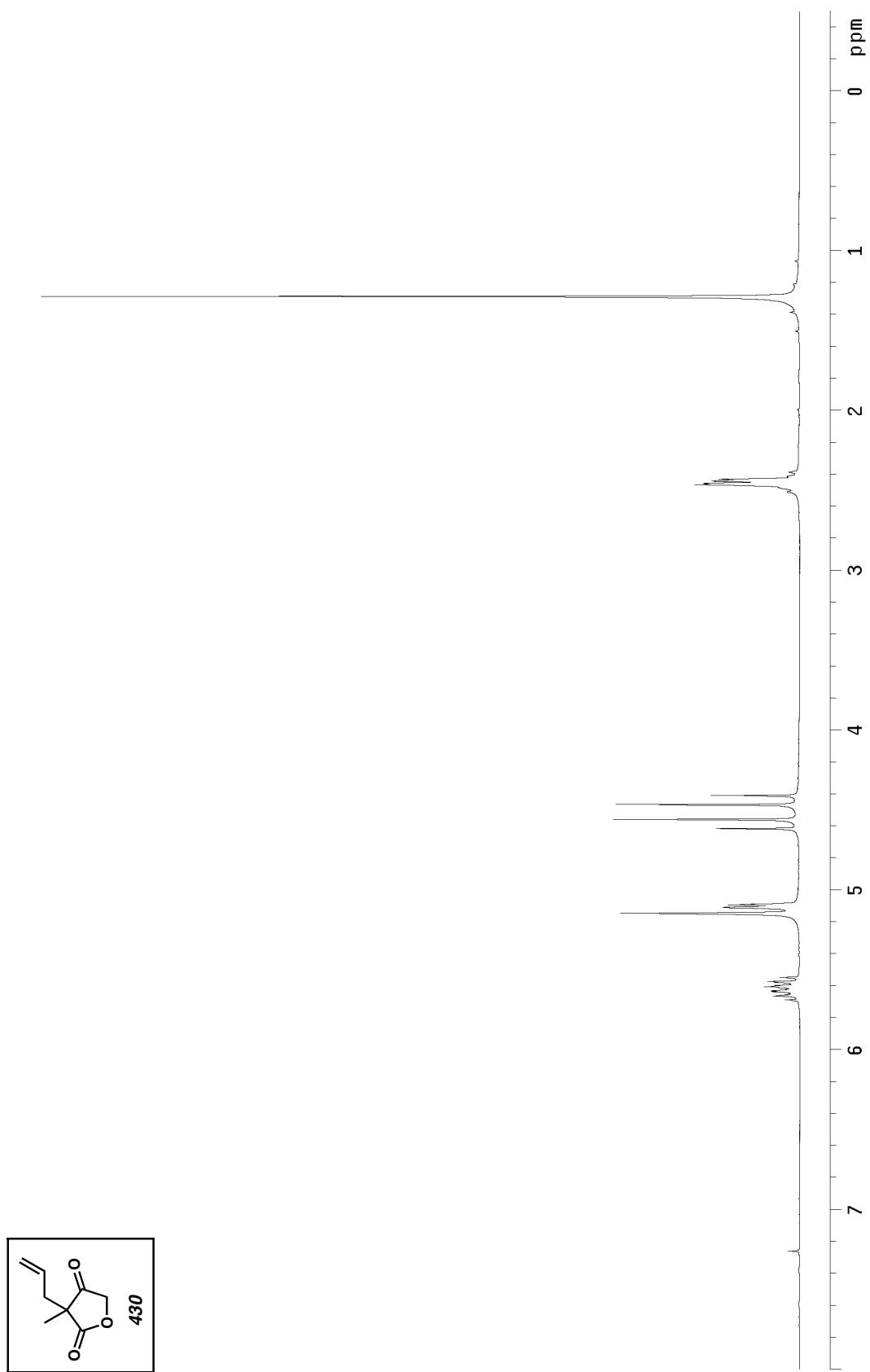


Figure A7.352 <sup>1</sup>H NMR of compound 430 (300 MHz, CDCl<sub>3</sub>)

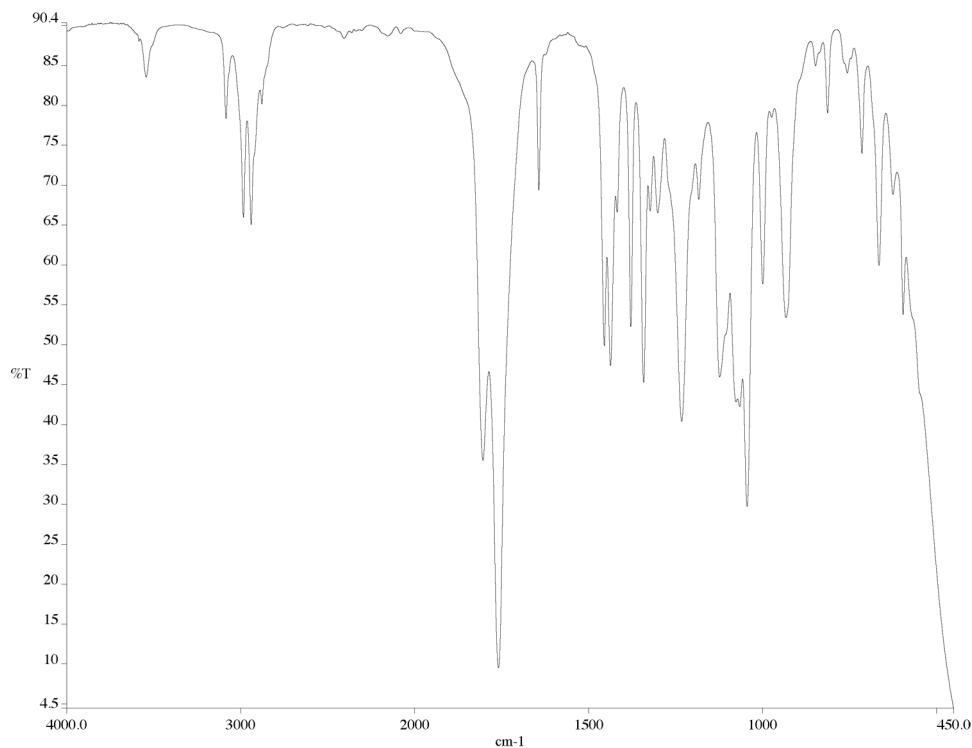


Figure A7.353 IR of compound **430** (NaCl/film)

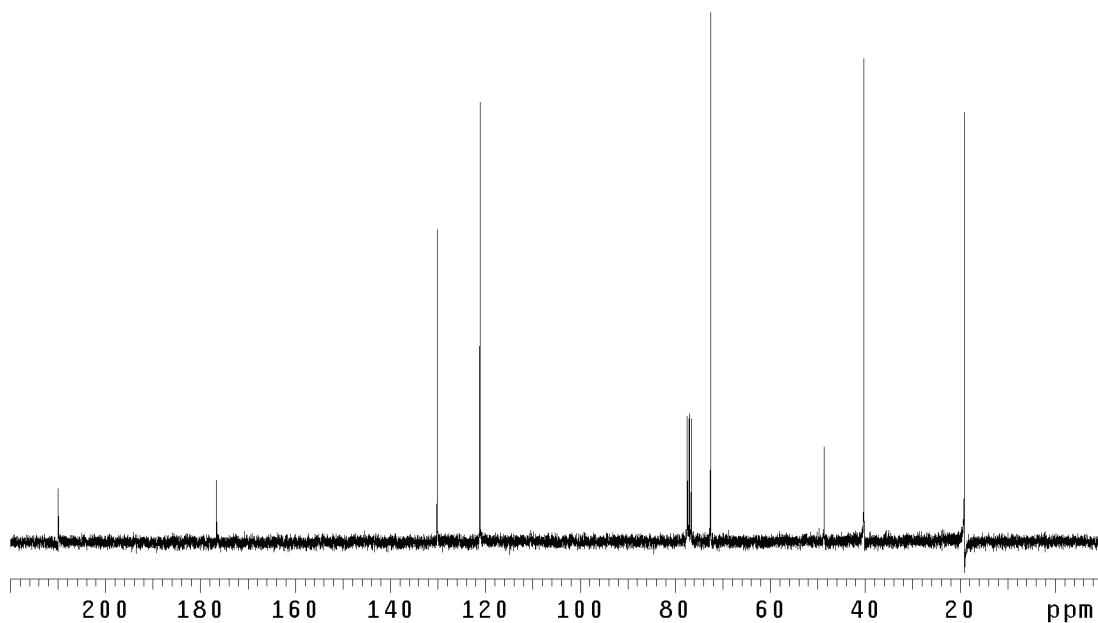


Figure A7.354 <sup>13</sup>C NMR of compound **430** (75 MHz, CDCl<sub>3</sub>)

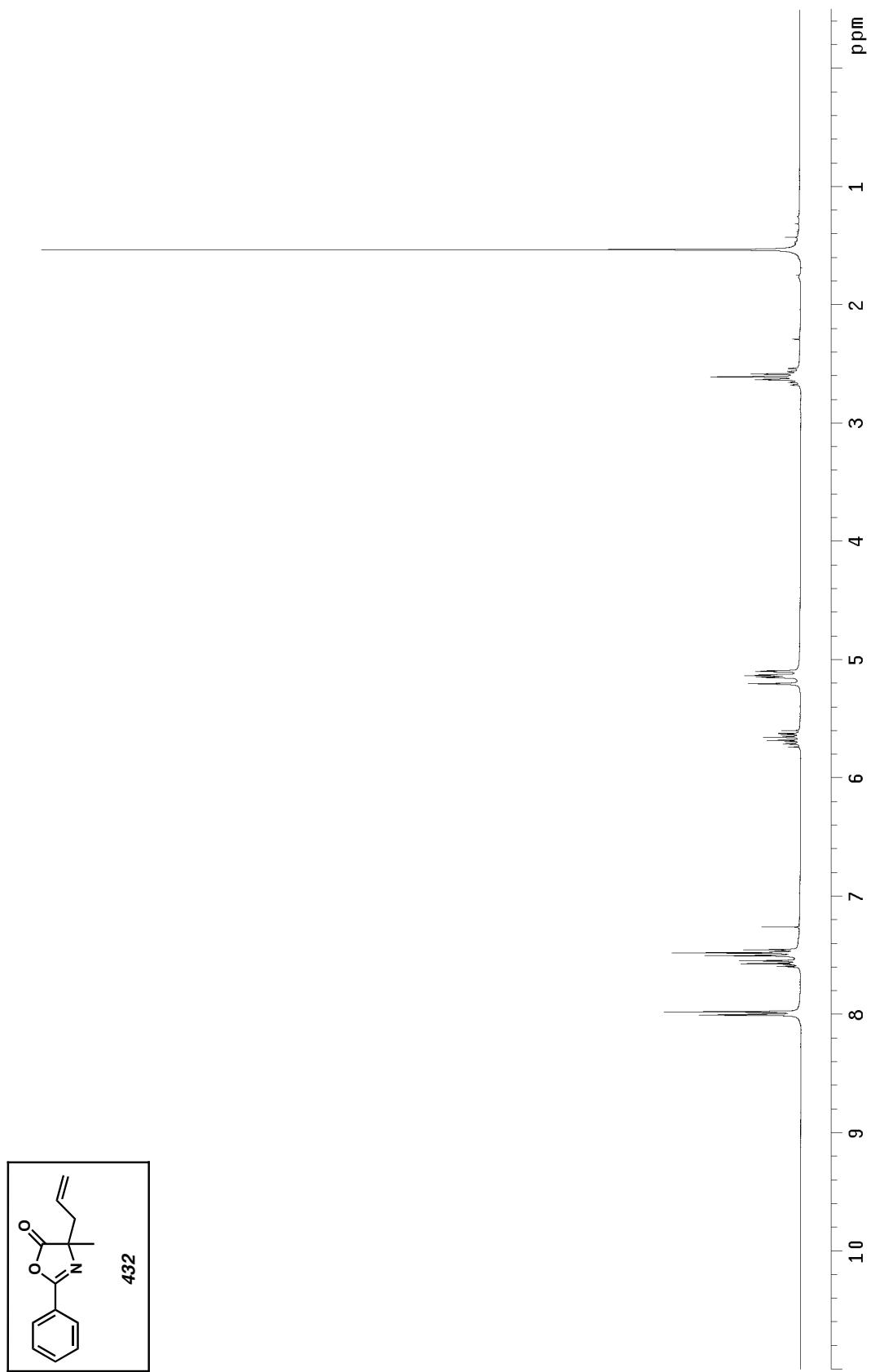


Figure A7.355 <sup>1</sup>H NMR of compound 432 (300 MHz, CDCl<sub>3</sub>)

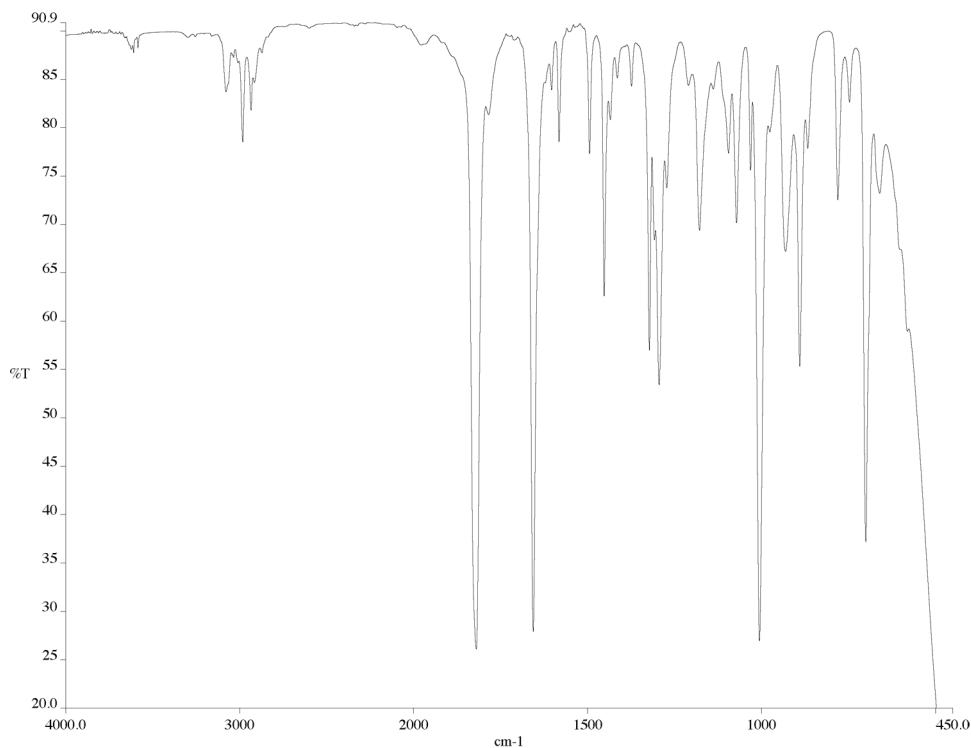


Figure A7.356 IR of compound **432** (NaCl/film)

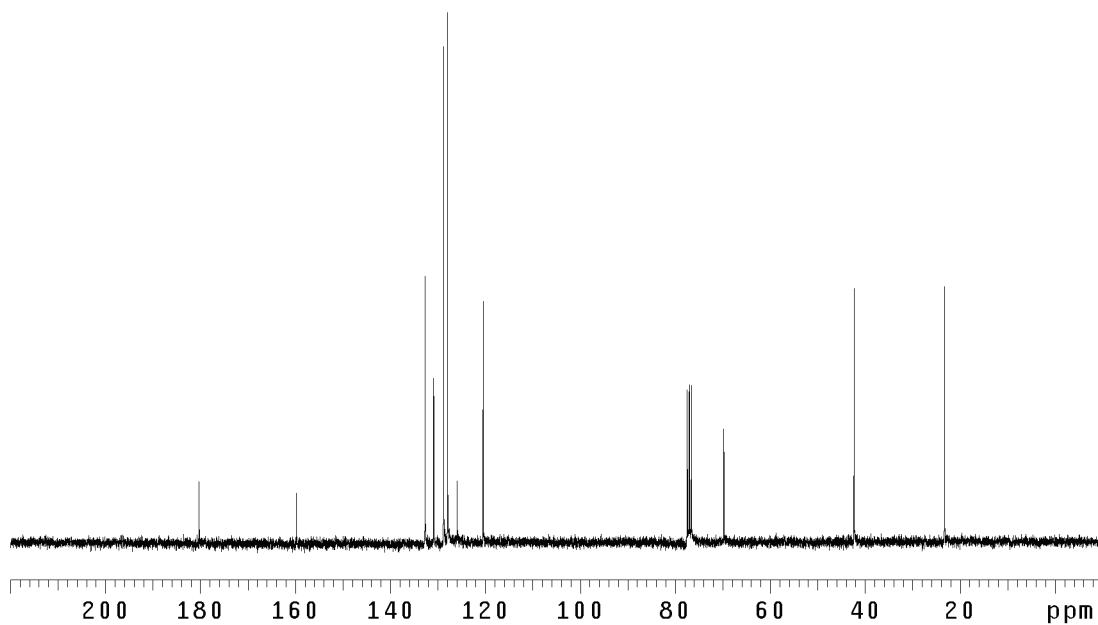


Figure A7.357  $^{13}\text{C}$  NMR of compound **432** (75 MHz,  $\text{CDCl}_3$ )

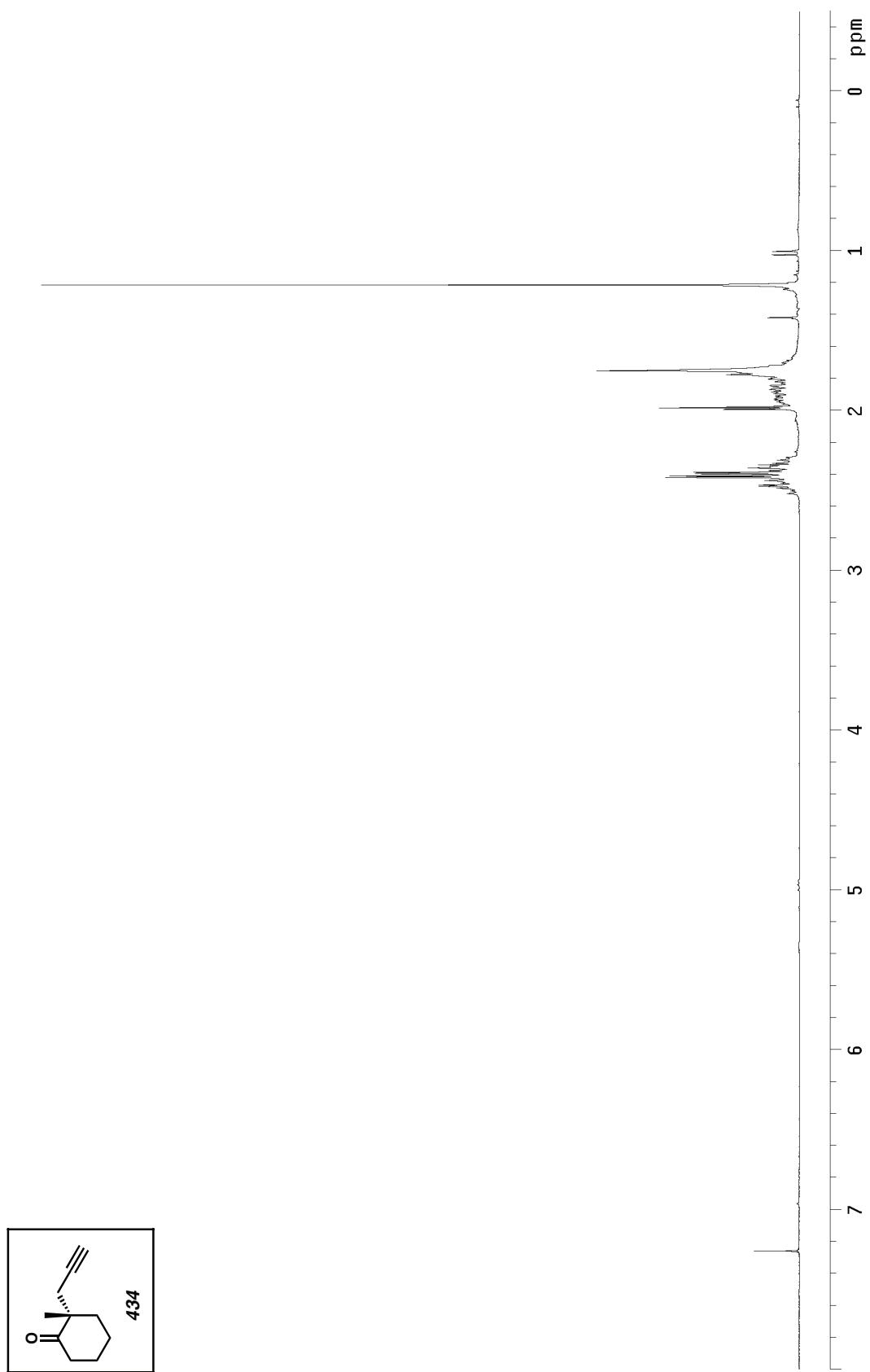


Figure A7.358  $^1\text{H}$  NMR of compound 434 (300 MHz,  $\text{CDCl}_3$ )

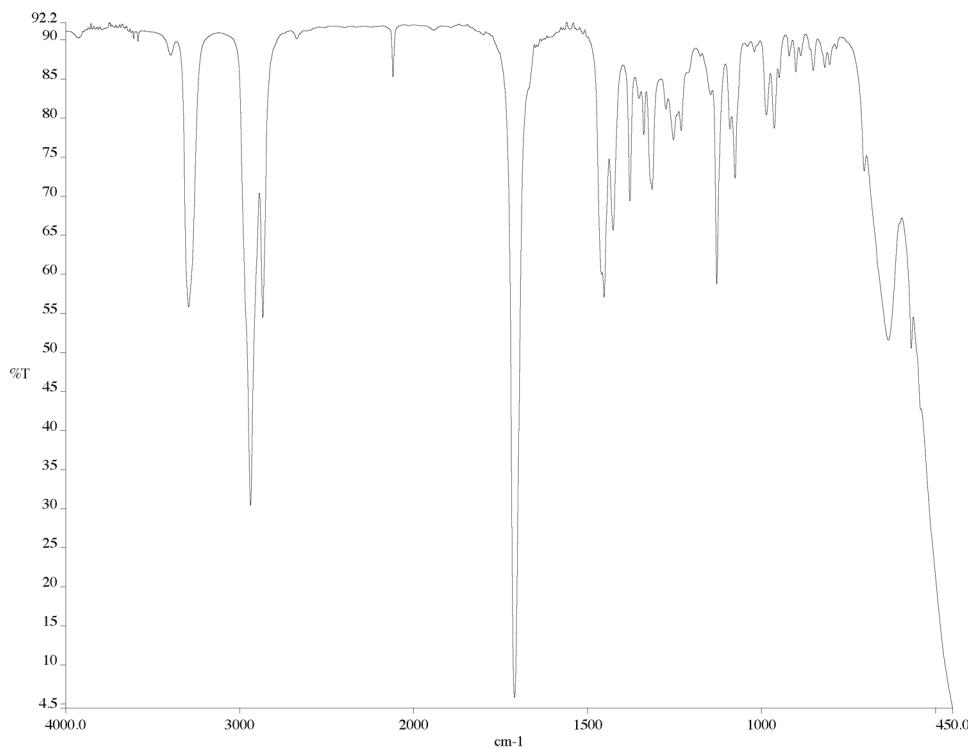


Figure A7.359 IR of compound **434** (NaCl/film)

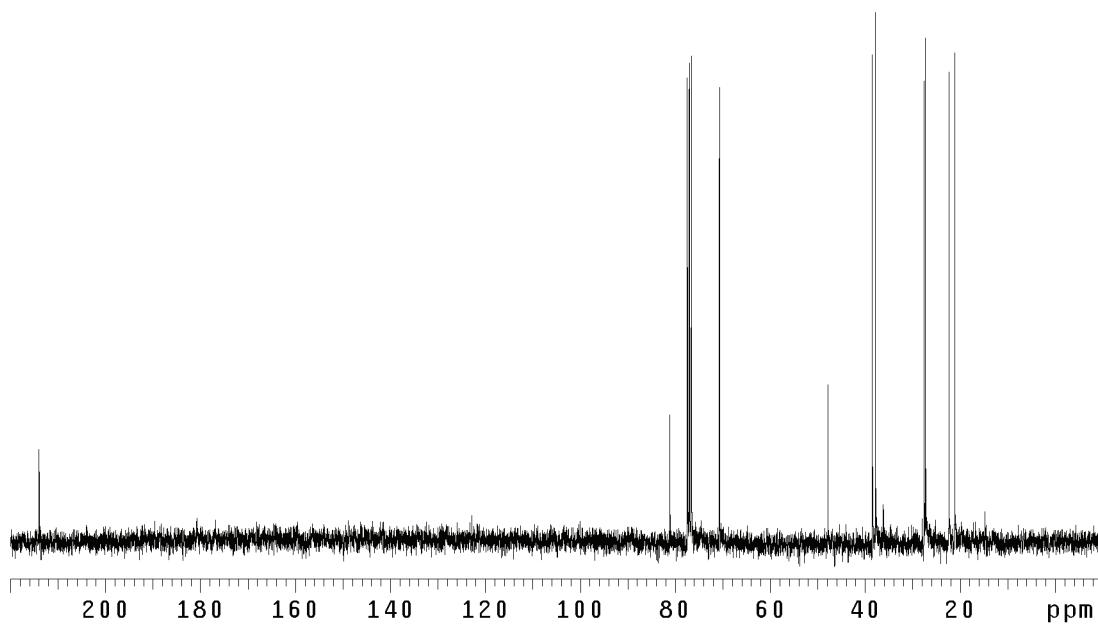


Figure A7.360 <sup>13</sup>C NMR of compound **434** (75 MHz, CDCl<sub>3</sub>)

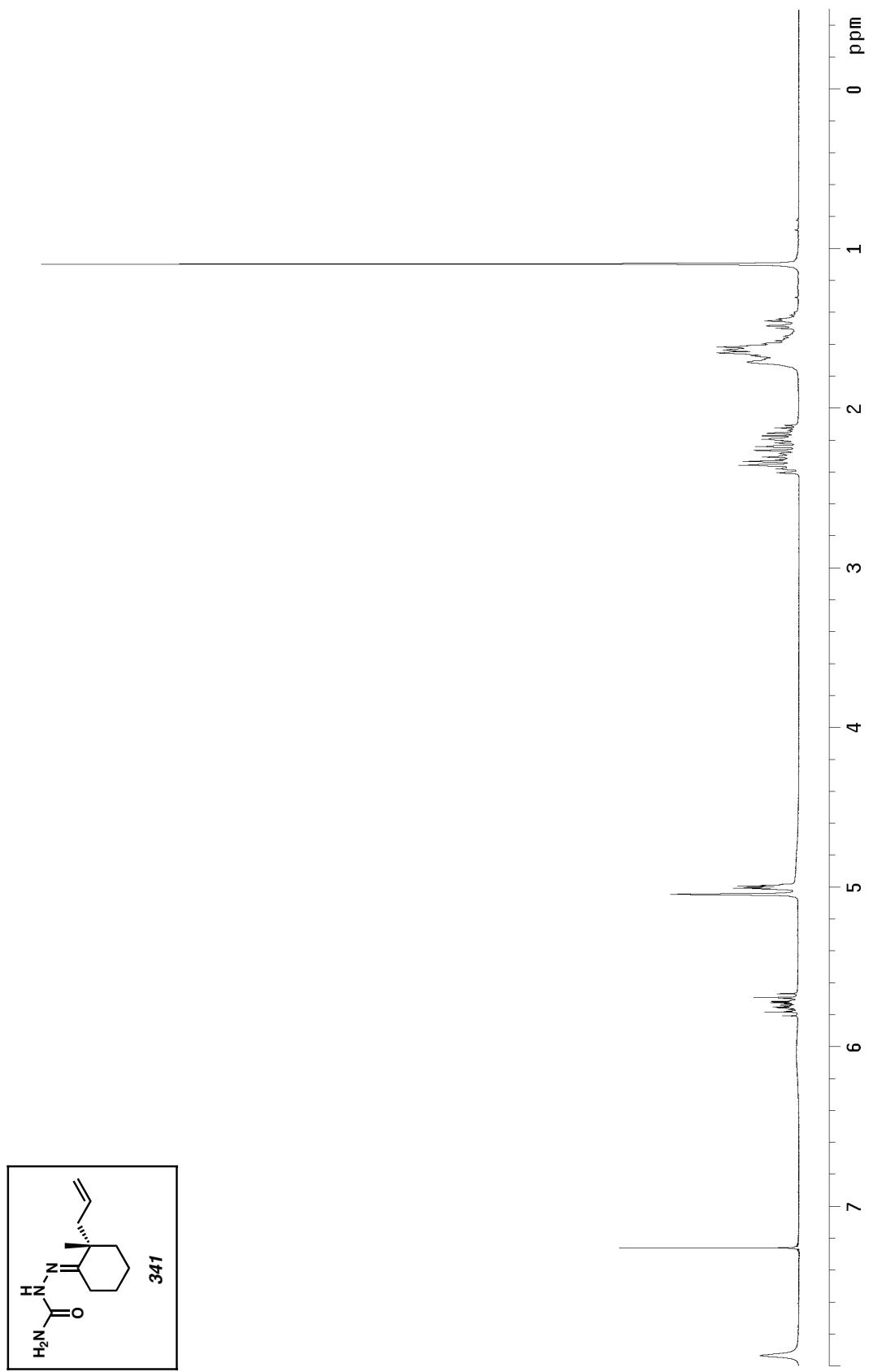


Figure A7.361  $^1\text{H}$  NMR of compound 341 (300 MHz,  $\text{CDCl}_3$ )

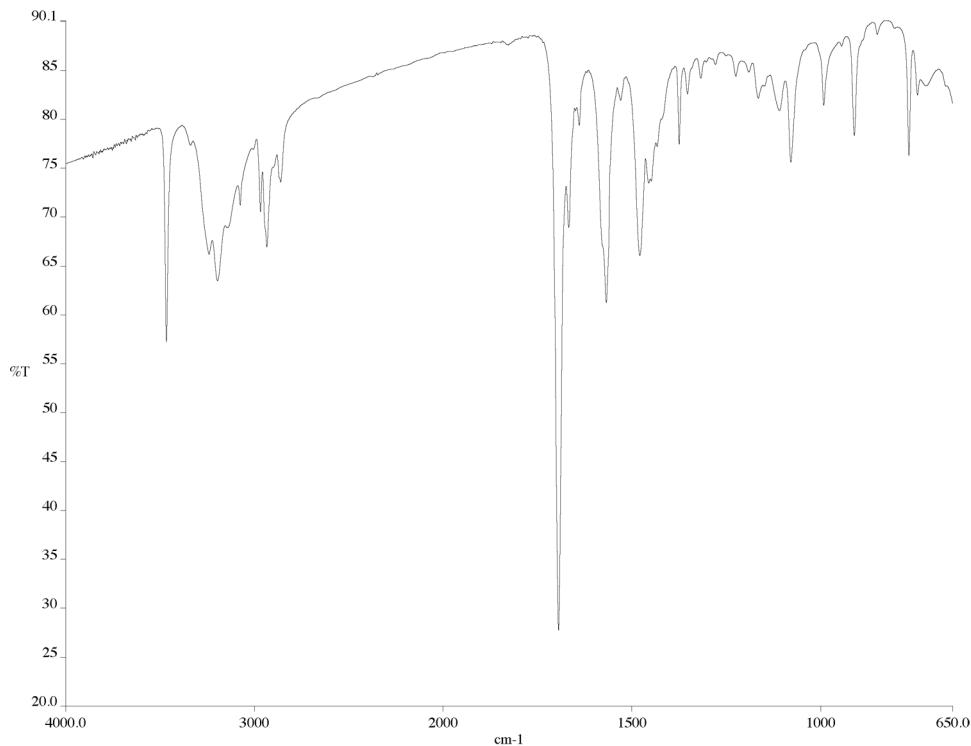


Figure A7.362 IR of compound **341** (NaCl/film)

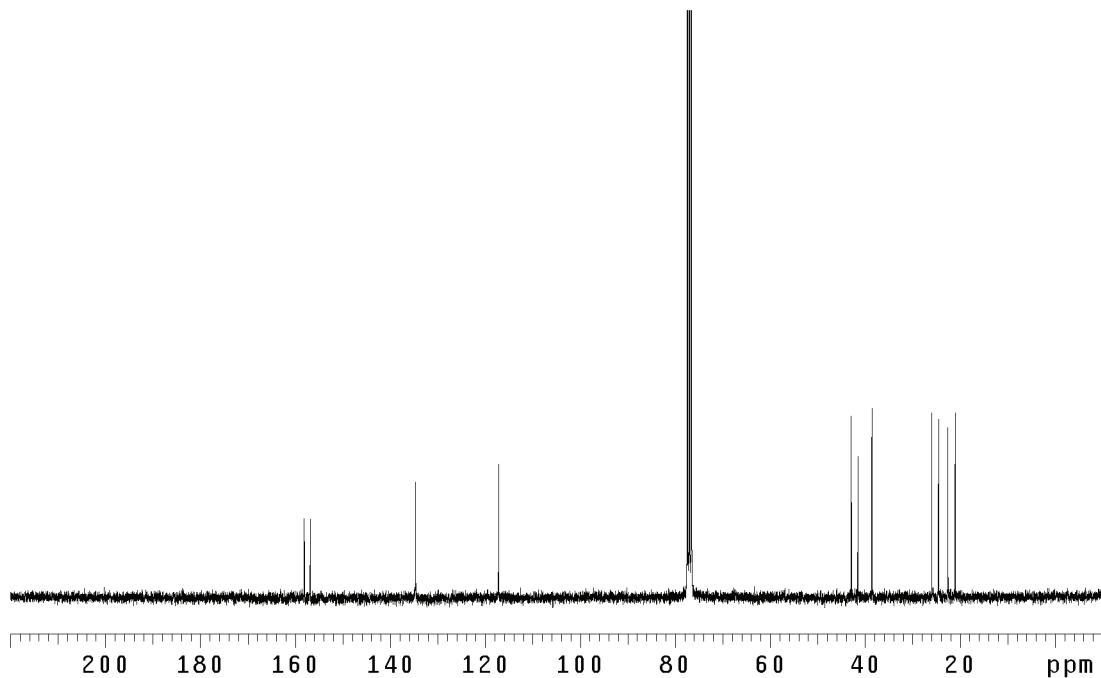


Figure A7.363 <sup>13</sup>C NMR of compound **341** (75 MHz, CDCl<sub>3</sub>)

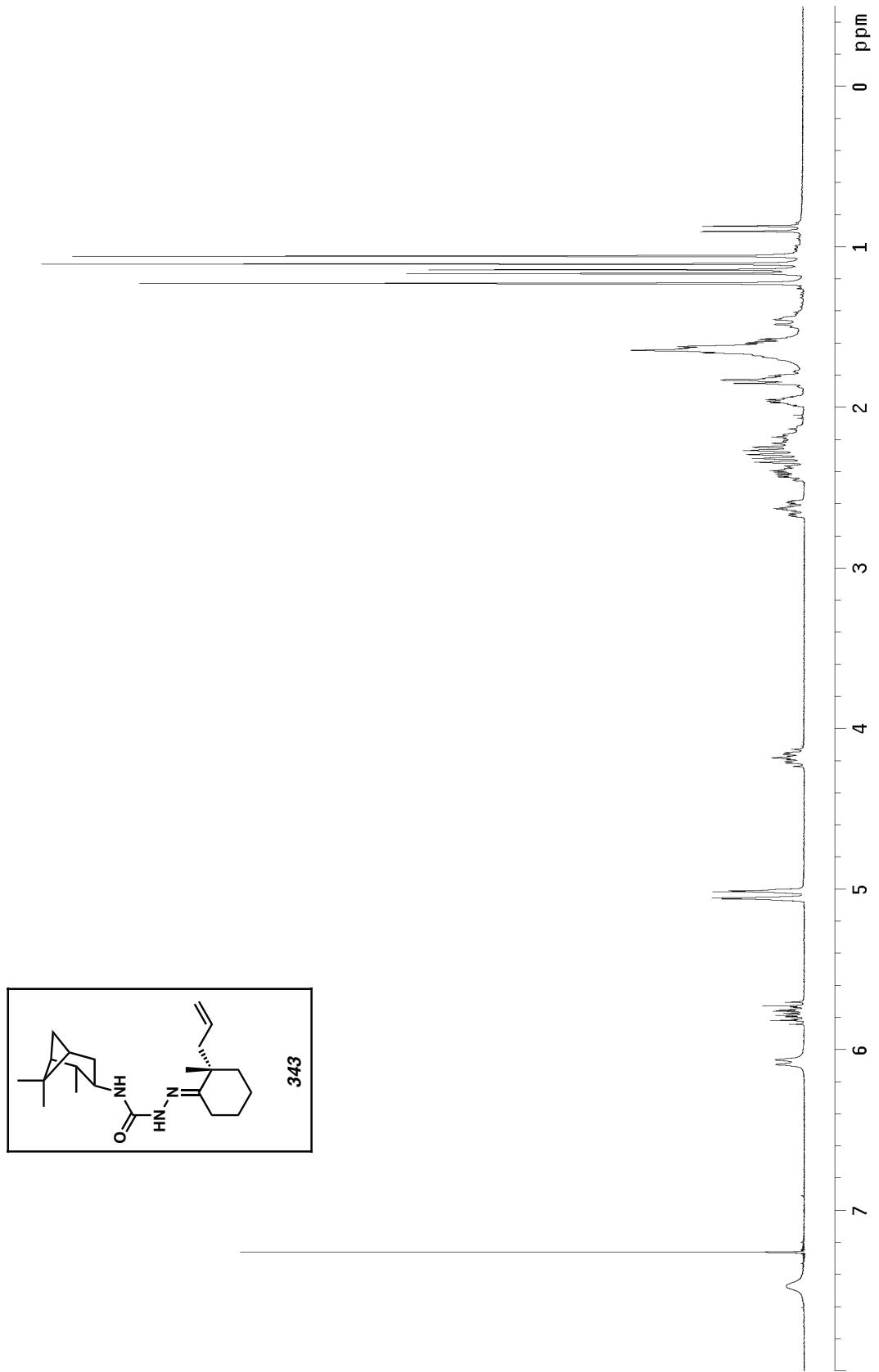


Figure A7.364  $^1\text{H}$  NMR of compound 343 (300 MHz, CDCl<sub>3</sub>)

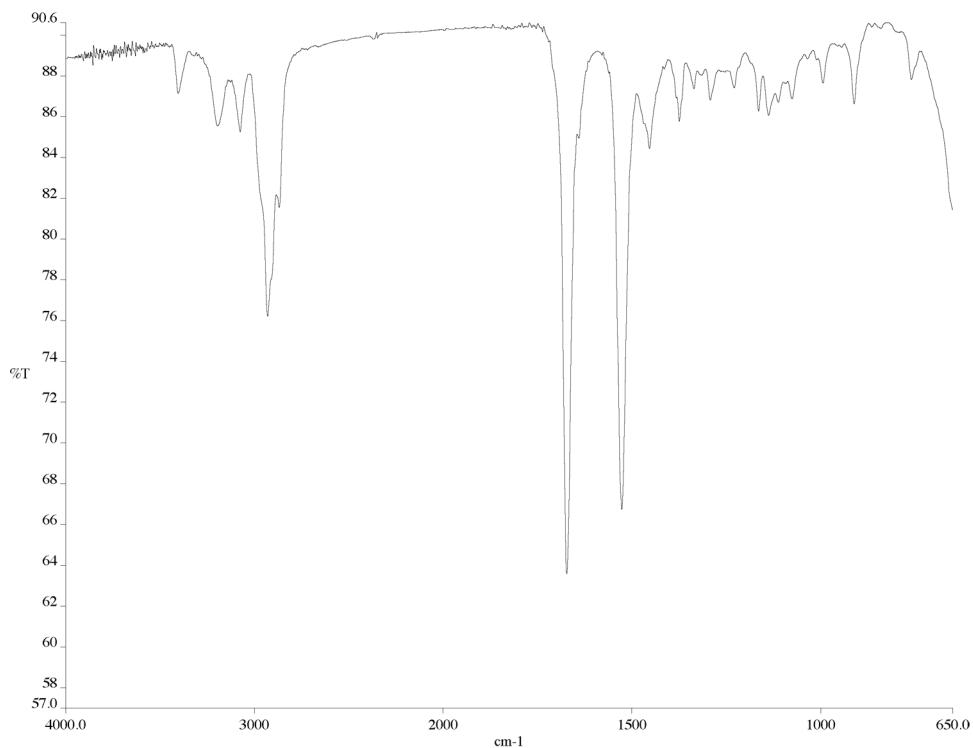


Figure A7.365 IR of compound **343** (NaCl/film)

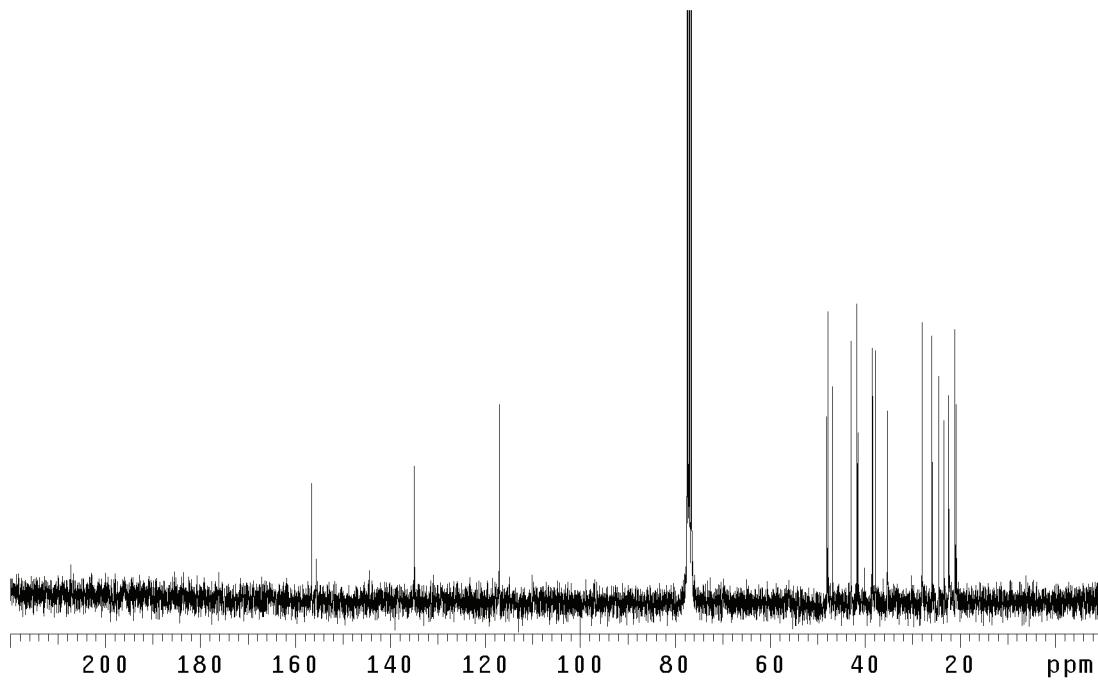


Figure A7.366 <sup>13</sup>C NMR of compound **343** (75 MHz, CDCl<sub>3</sub>)

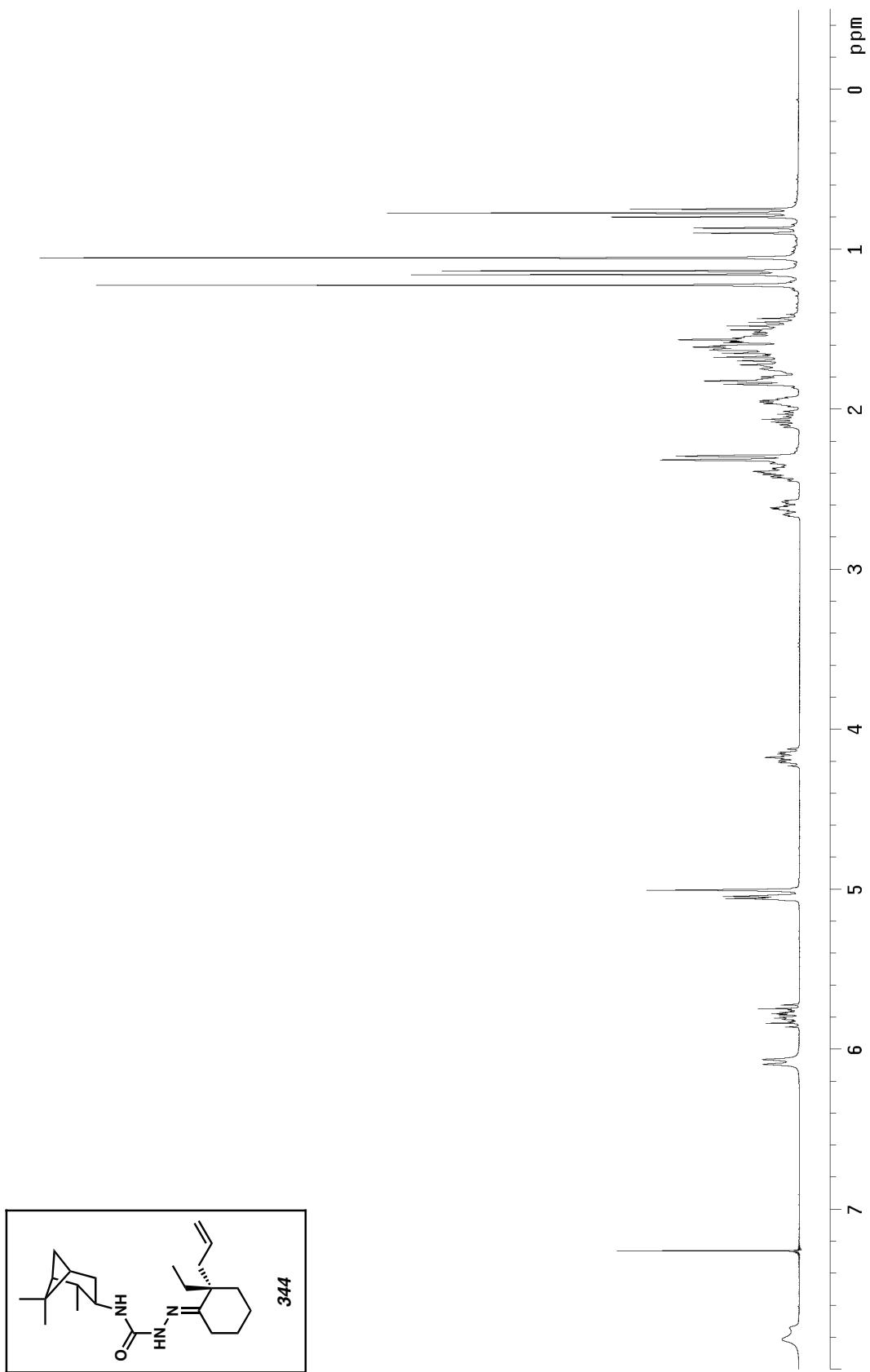


Figure A7.367 <sup>1</sup>H NMR of compound 344 (300 MHz, CDCl<sub>3</sub>)

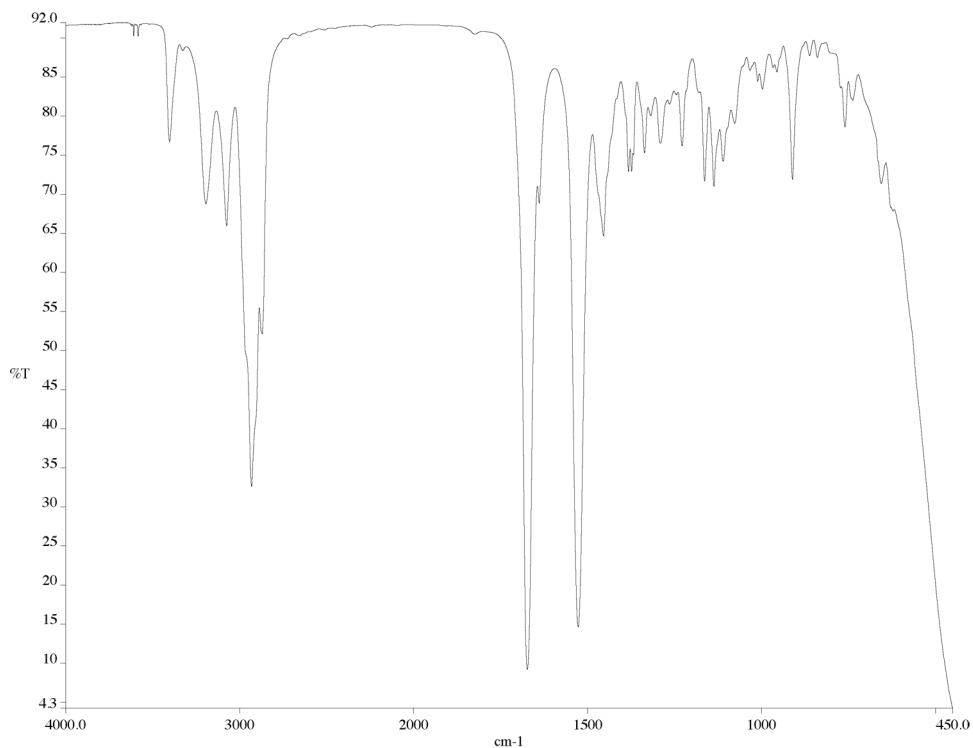


Figure A7.368 IR of compound **344** (NaCl/film)

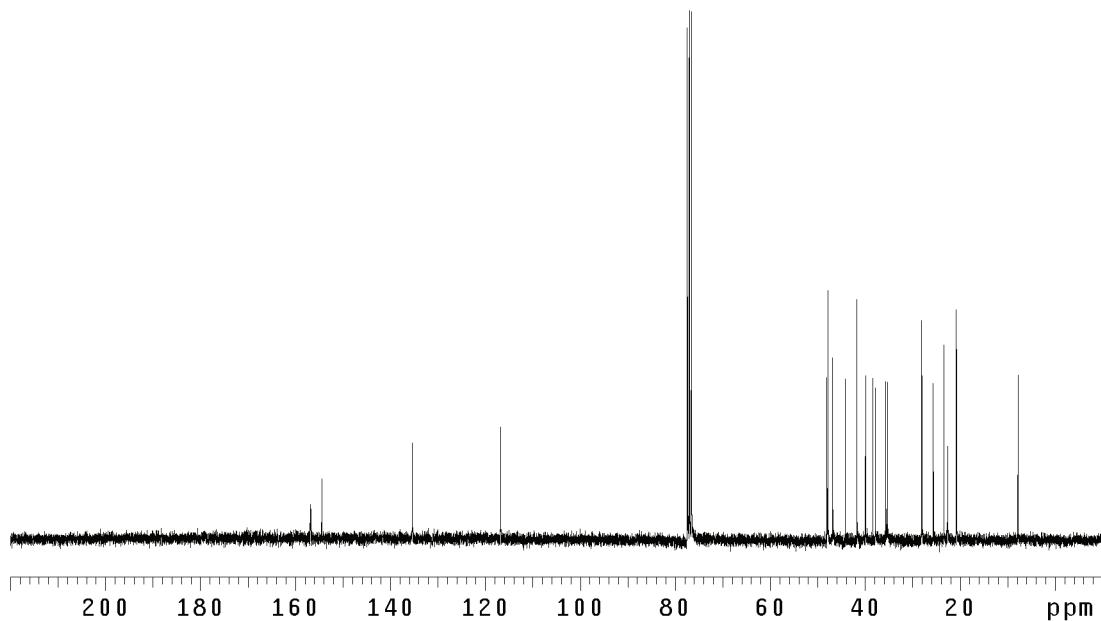


Figure A7.369 <sup>13</sup>C NMR of compound **344** (75 MHz, CDCl<sub>3</sub>)

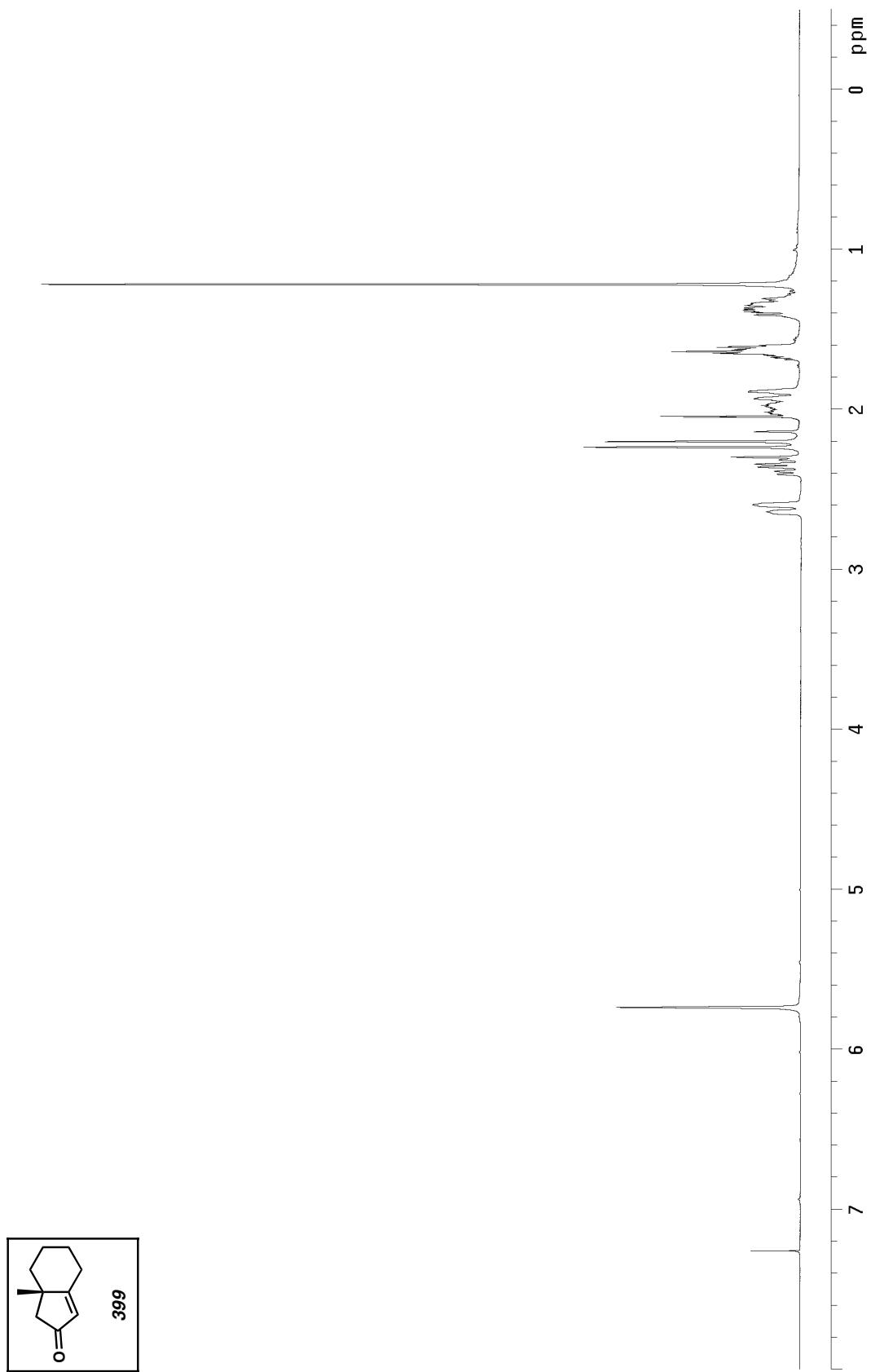


Figure A7.370  $^1\text{H}$  NMR of compound 399 (300 MHz,  $\text{CDCl}_3$ )

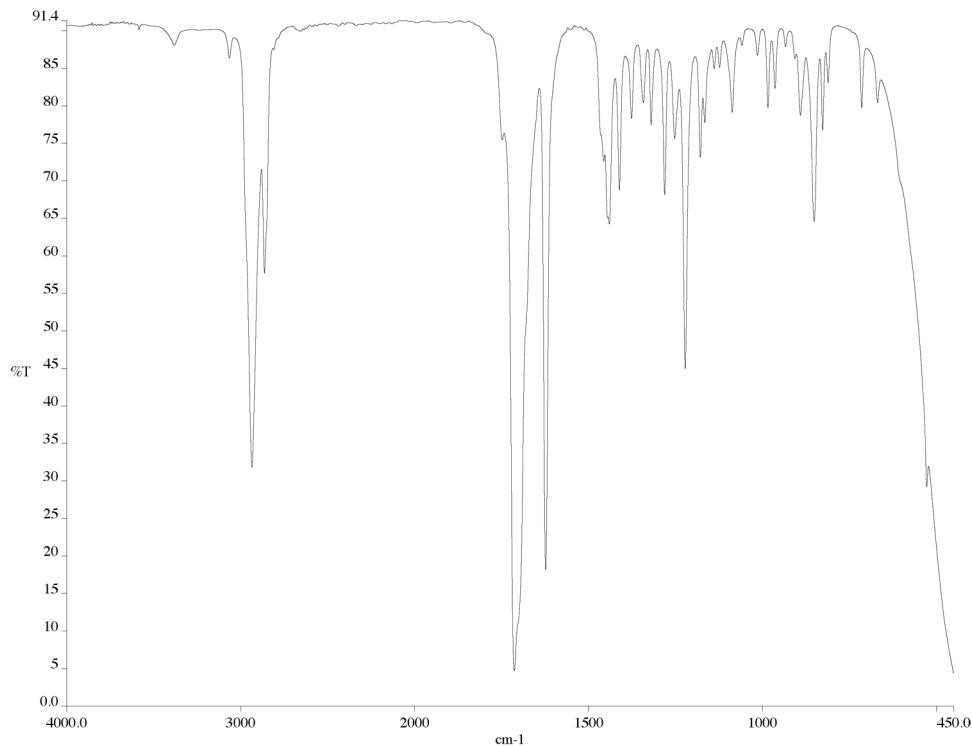


Figure A7.371 IR of compound **399** (NaCl/film)

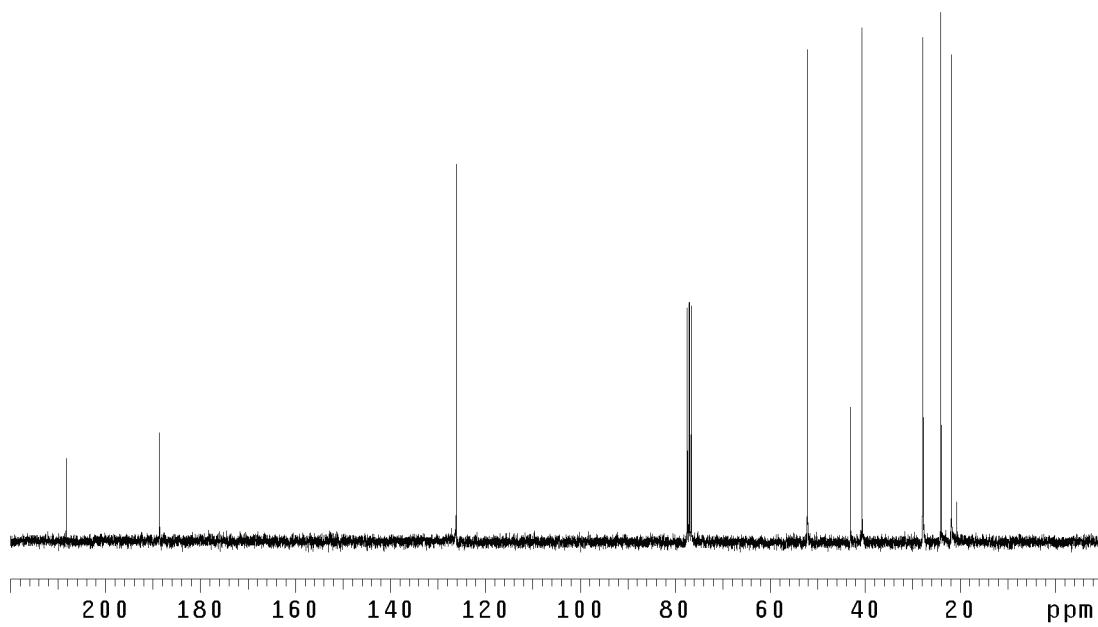


Figure A7.372 <sup>13</sup>C NMR of compound **399** (75 MHz, CDCl<sub>3</sub>)

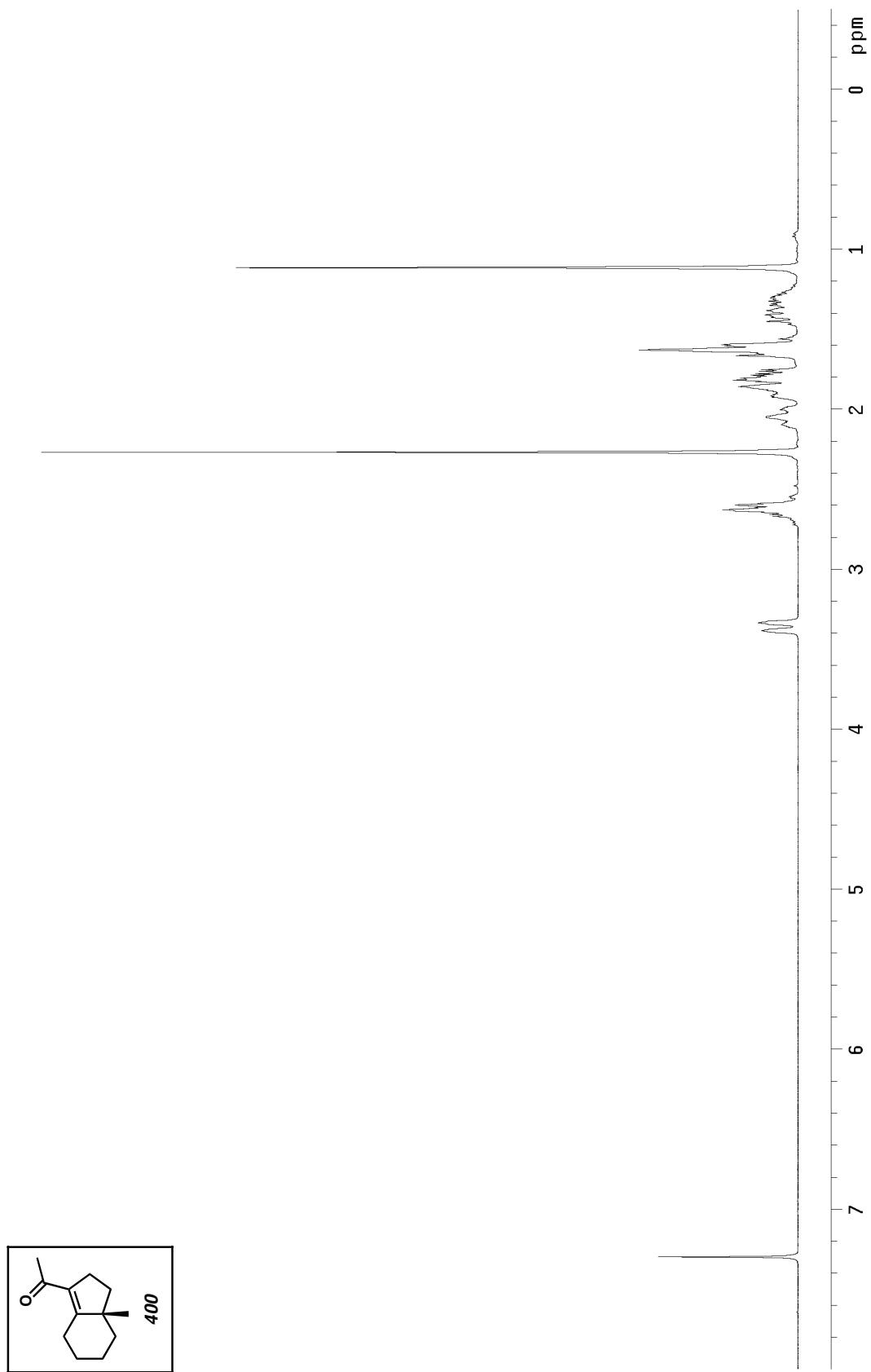


Figure A7.373  $^1\text{H}$  NMR of compound 400 (300 MHz,  $\text{CDCl}_3$ )

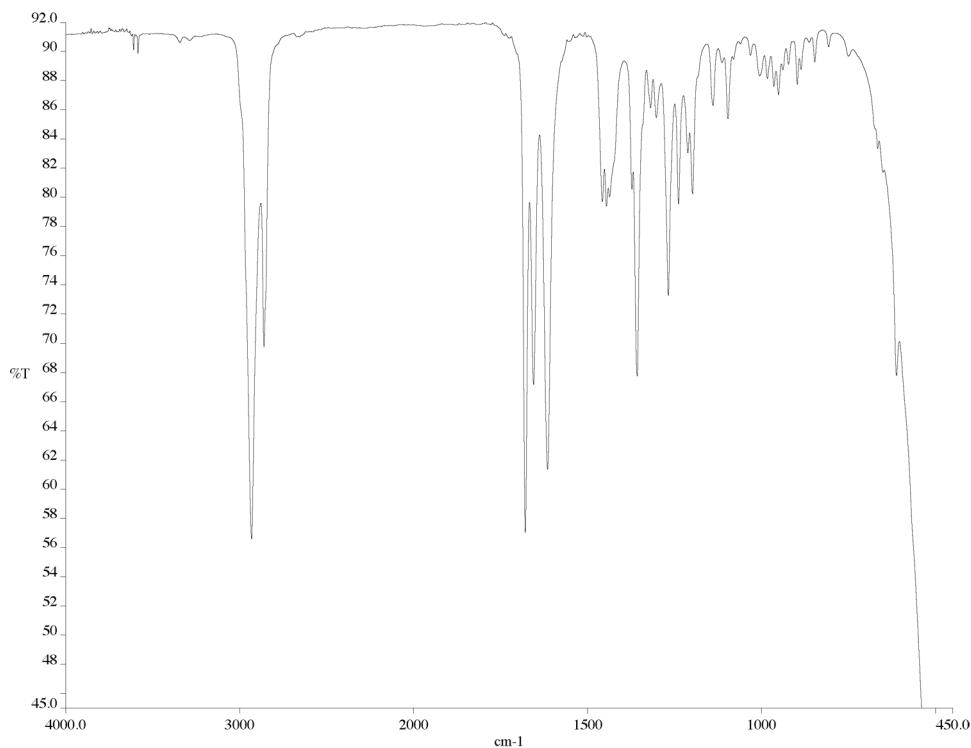


Figure A7.374 IR of compound **400** (NaCl/film)

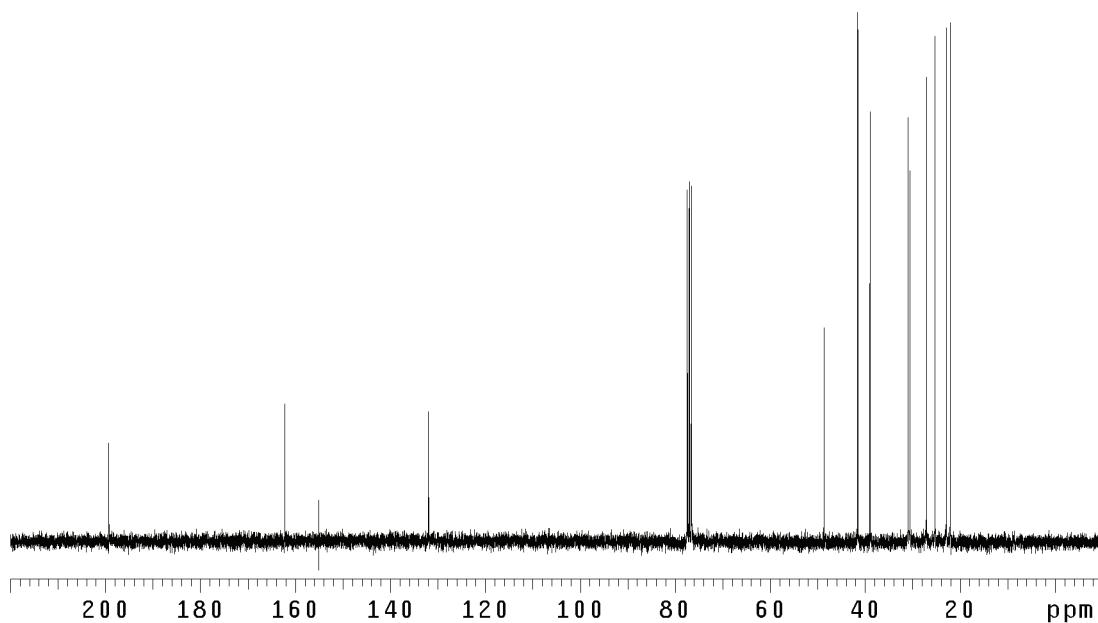


Figure A7.475 <sup>13</sup>C NMR of compound **400** (75 MHz, CDCl<sub>3</sub>)

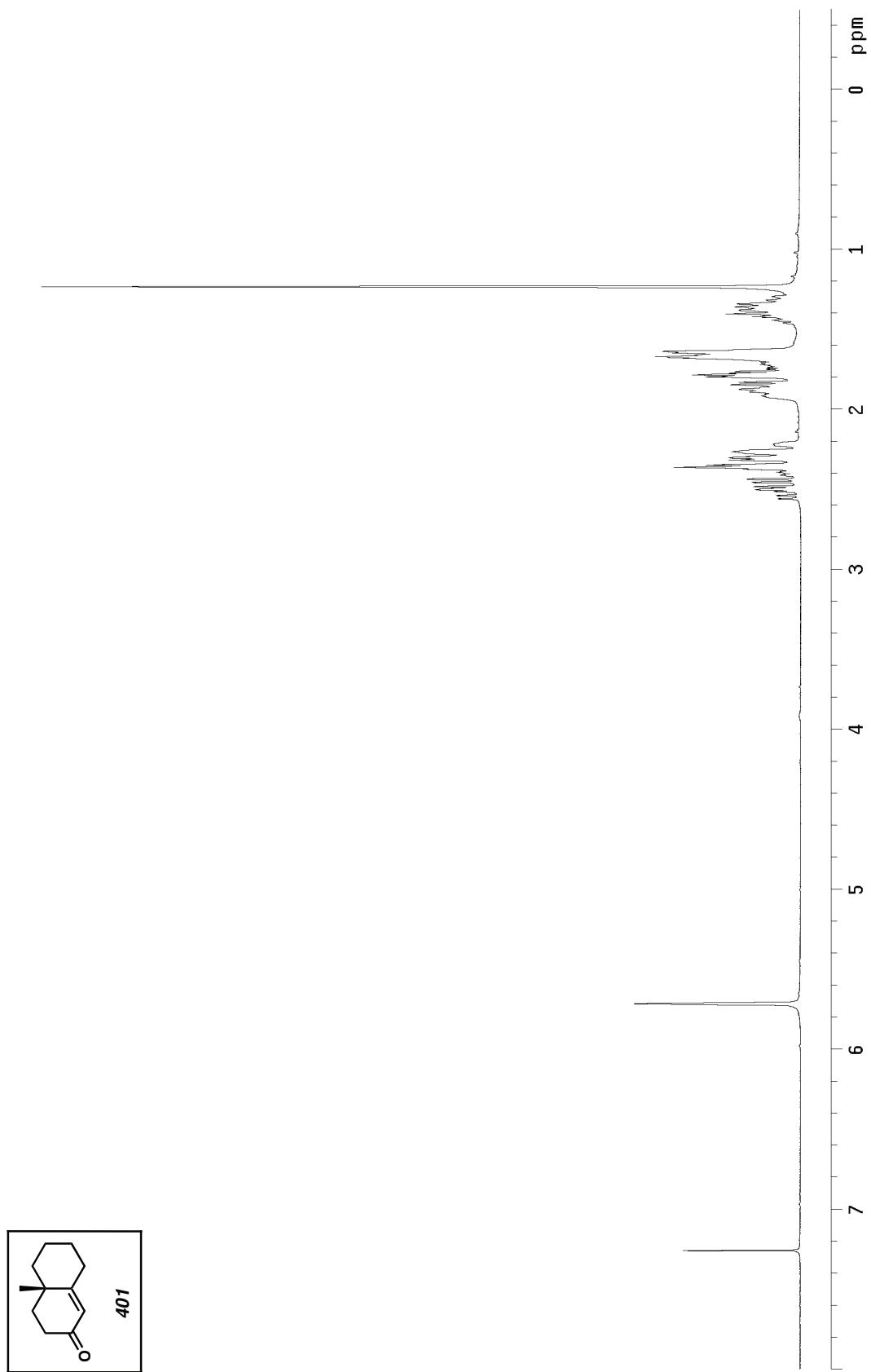


Figure A7.376 <sup>1</sup>H NMR of compound 401 (300 MHz, CDCl<sub>3</sub>)

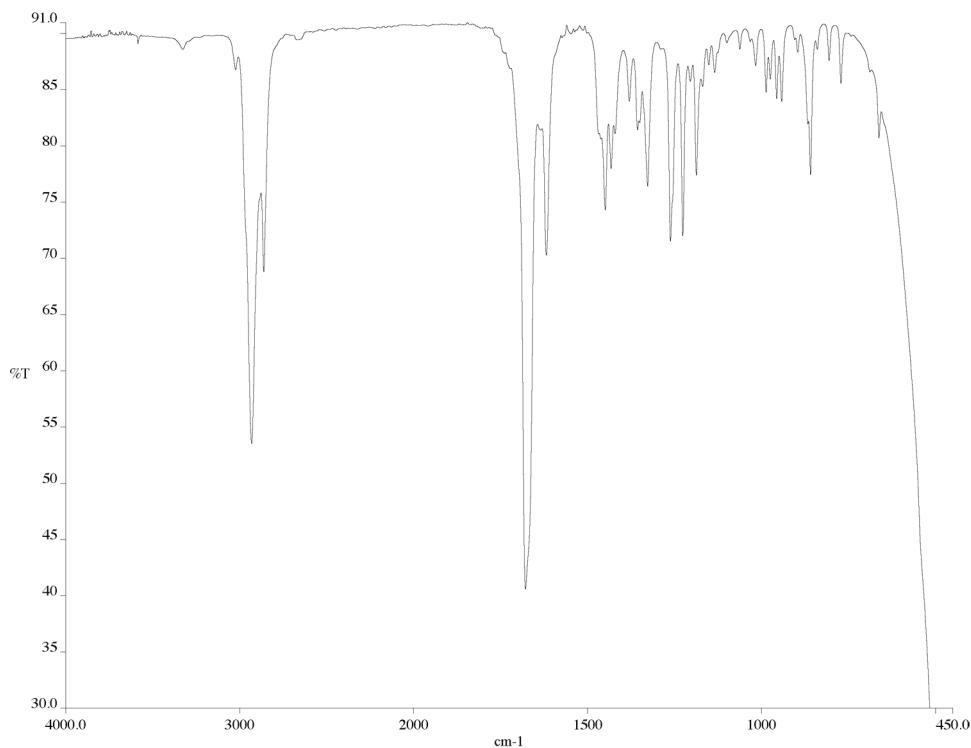


Figure A7.377 IR of compound **401** (NaCl/film)

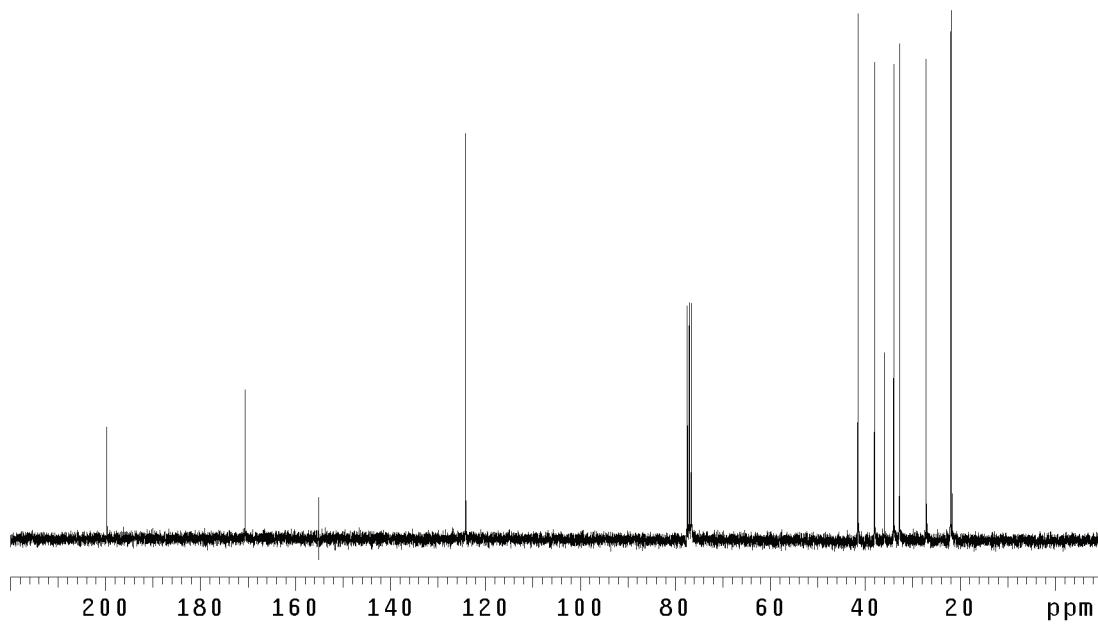


Figure A7.378 <sup>13</sup>C NMR of compound **401** (75 MHz, CDCl<sub>3</sub>)

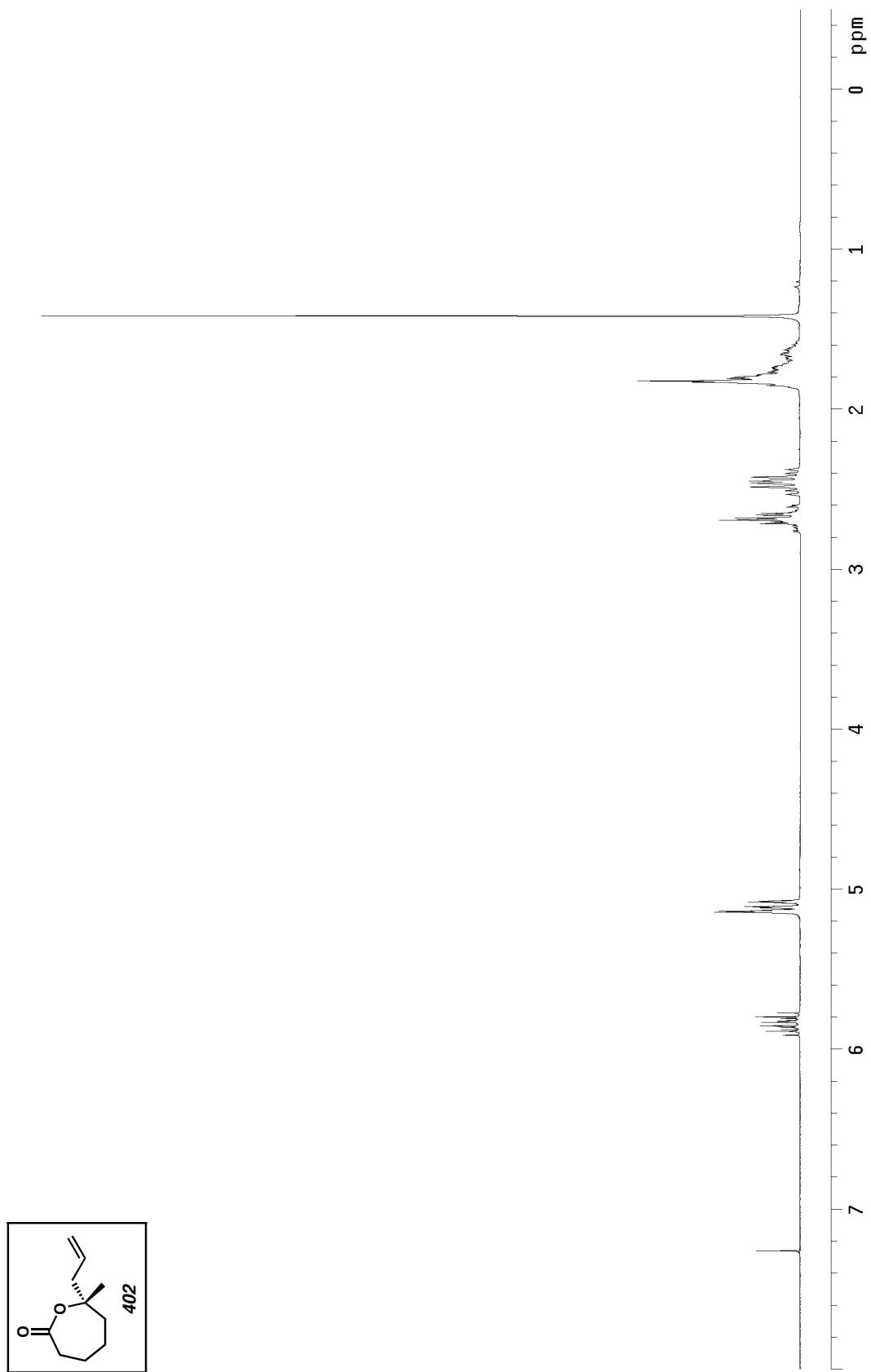


Figure A7.379  $^1\text{H}$  NMR of compound 403 (300 MHz,  $\text{CDCl}_3$ )

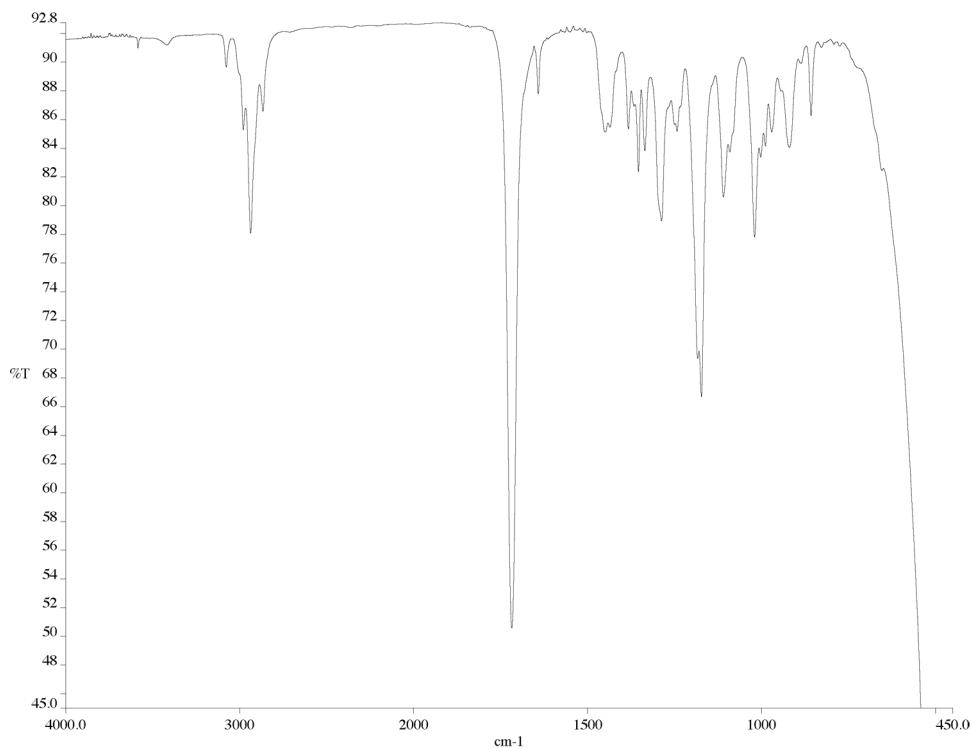


Figure A7.380 IR of compound **402** (NaCl/film)

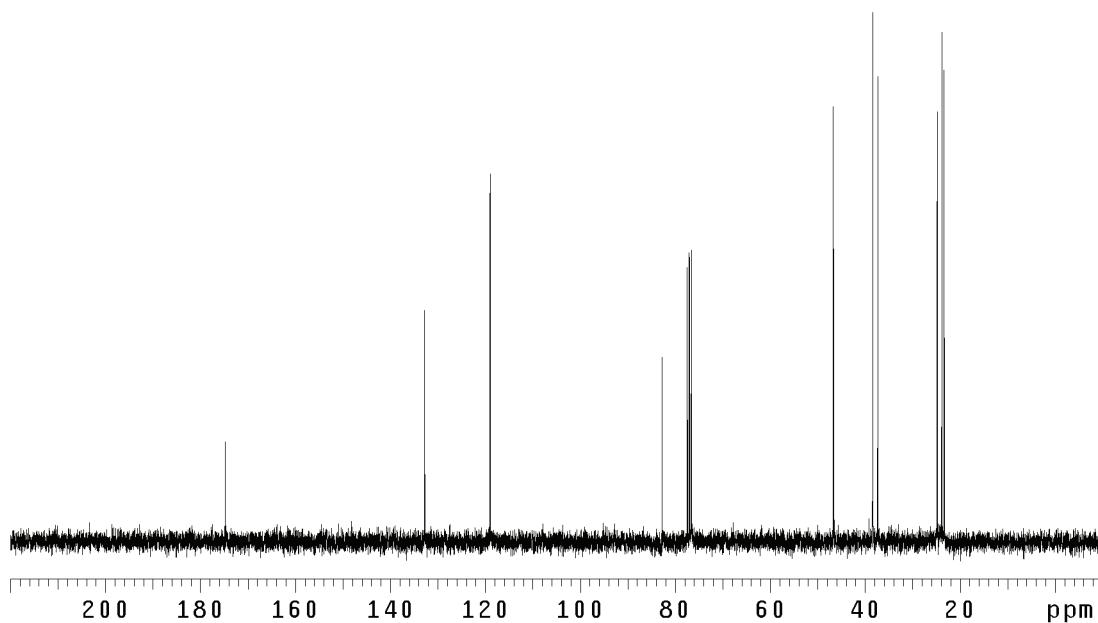


Figure A7.381 <sup>13</sup>C NMR of compound **402** (75 MHz, CDCl<sub>3</sub>)

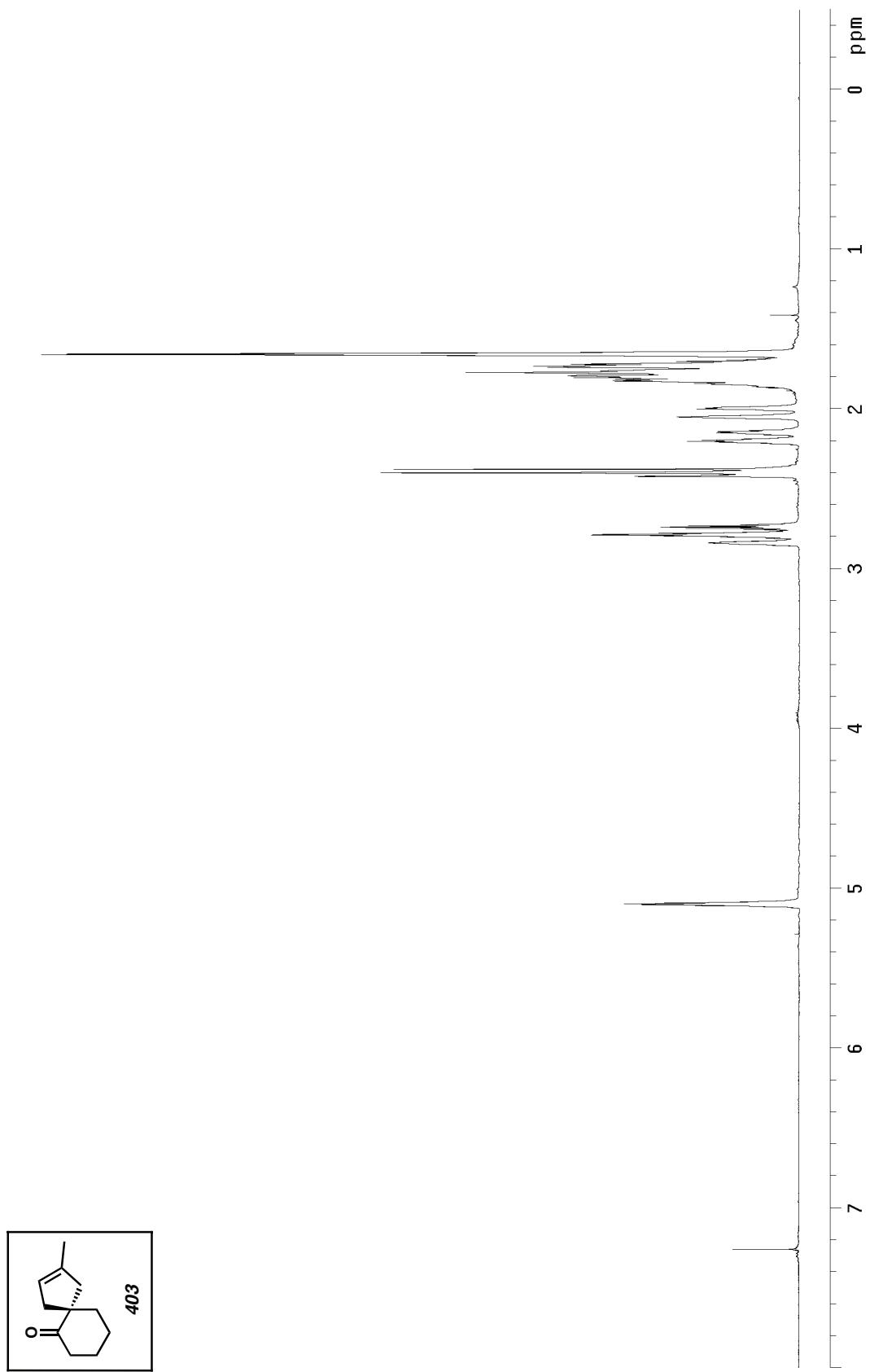


Figure A7.382  $^1\text{H}$  NMR of compound 403 (300 MHz,  $\text{CDCl}_3$ )

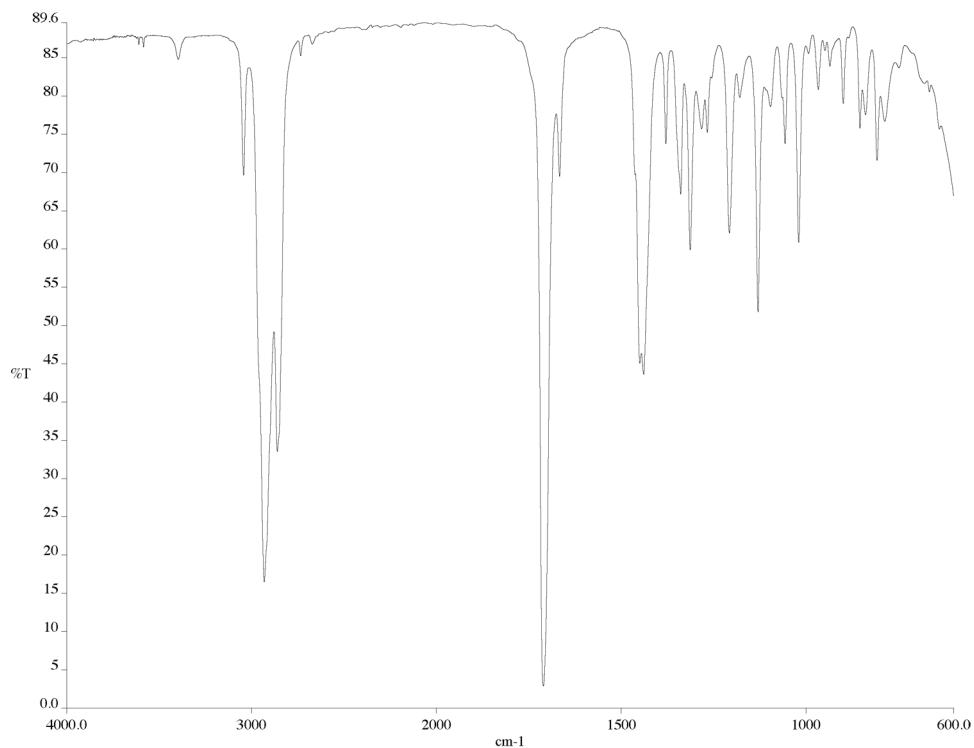


Figure A7.383 IR of compound **403** (NaCl/film)

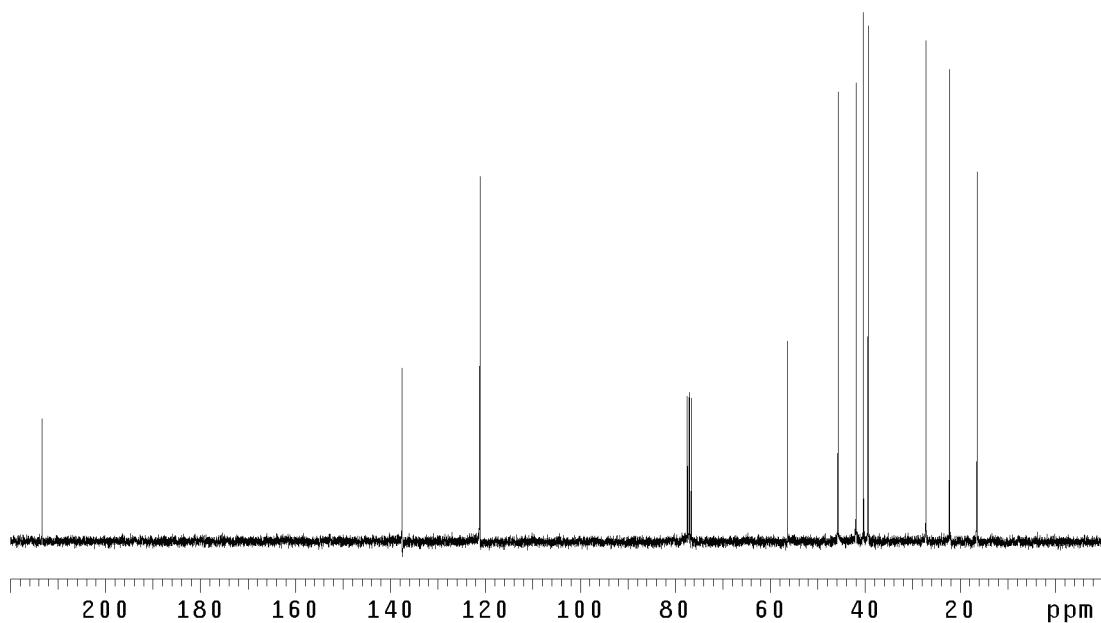


Figure A7.384 <sup>13</sup>C NMR of compound **403** (75 MHz, CDCl<sub>3</sub>)

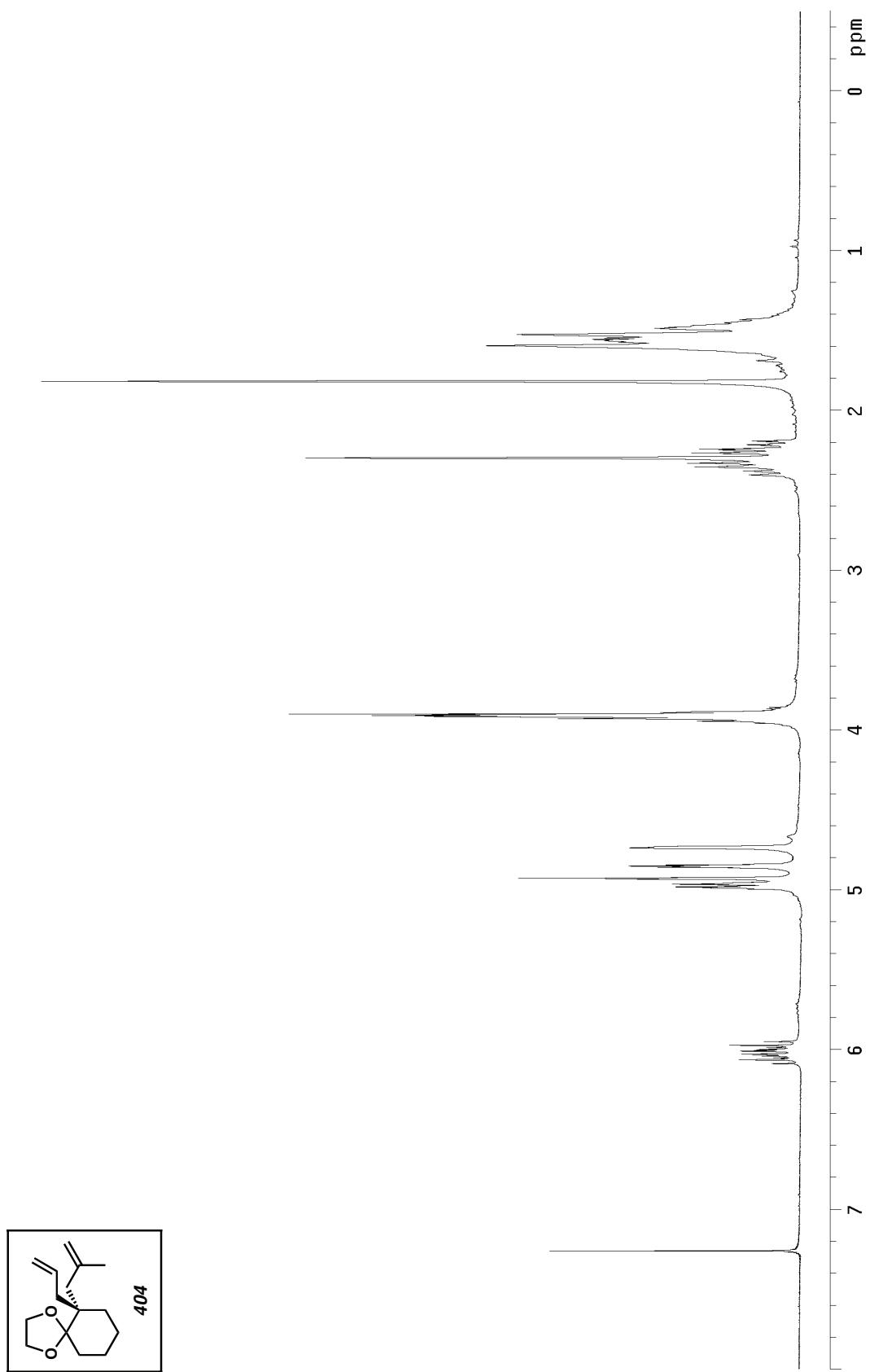


Figure A7.385  $^1\text{H}$  NMR of compound **404** (300 MHz, CDCl<sub>3</sub>)

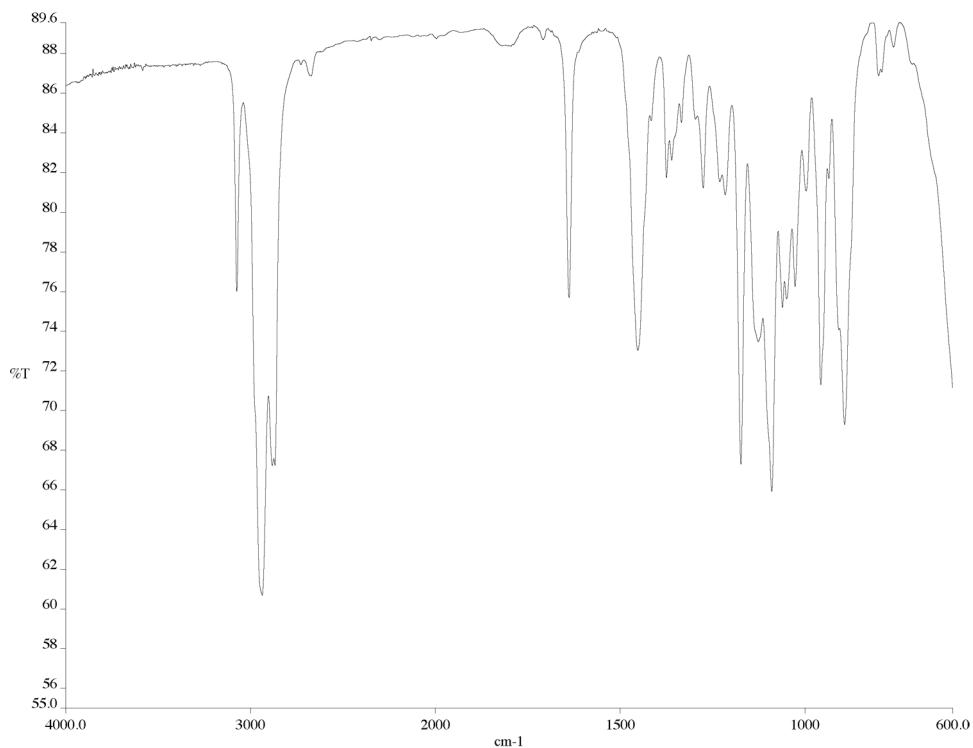


Figure A7.386 IR of compound **404** (NaCl/film)

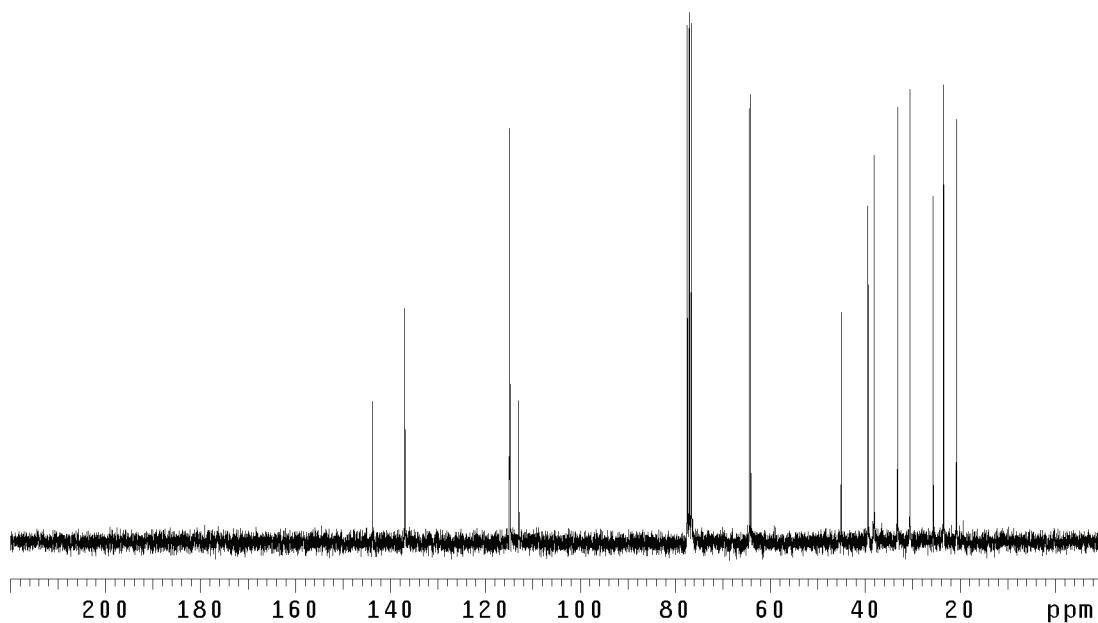


Figure A7.387 <sup>13</sup>C NMR of compound **404** (75 MHz, CDCl<sub>3</sub>)

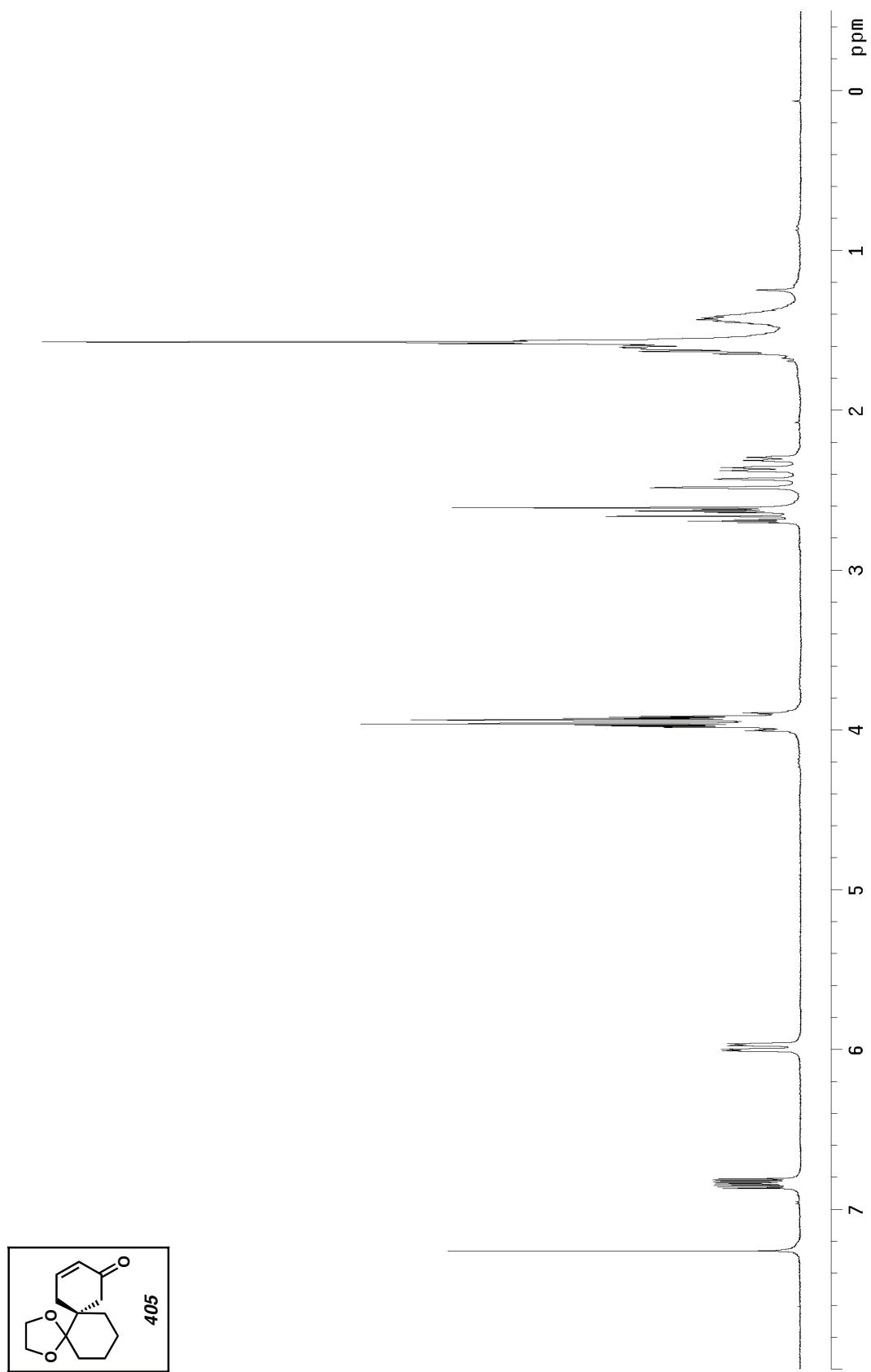


Figure A7.388  $^1\text{H}$  NMR of compound **405** (300 MHz,  $\text{CDCl}_3$ )

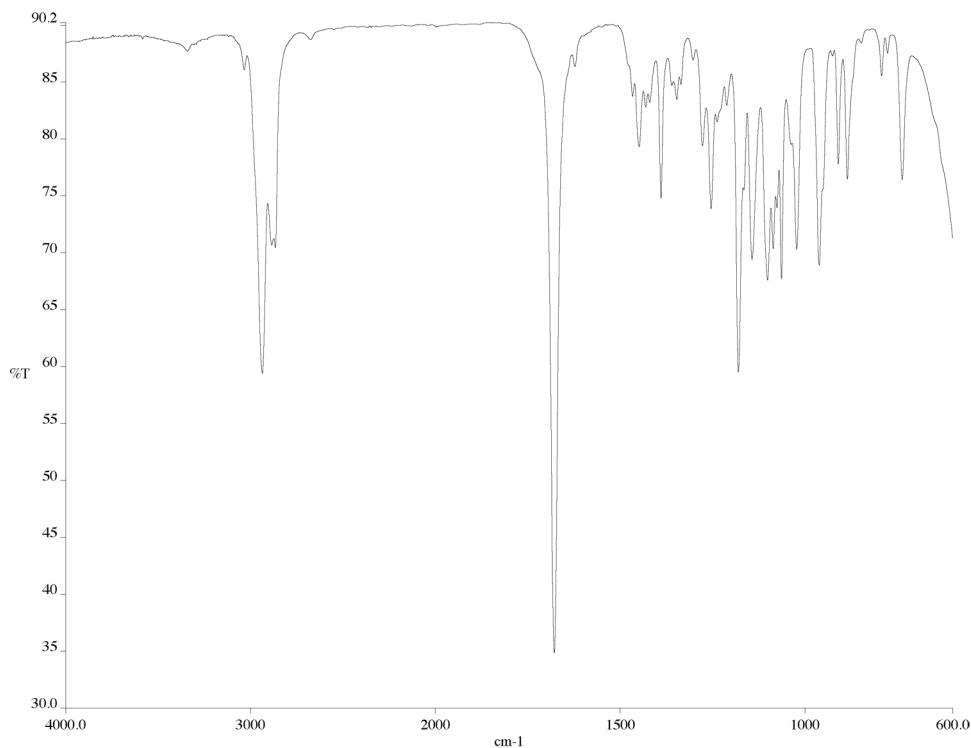


Figure A7.389 IR of compound **405** (NaCl/film)

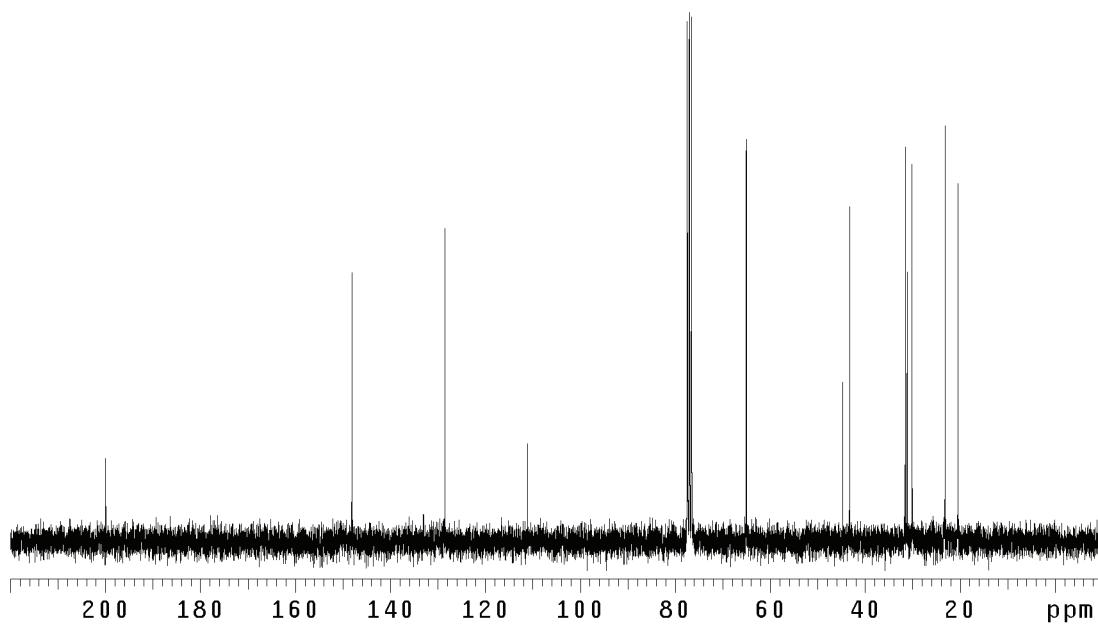


Figure A7.390  $^{13}\text{C}$  NMR of compound **405** (75 MHz,  $\text{CDCl}_3$ )

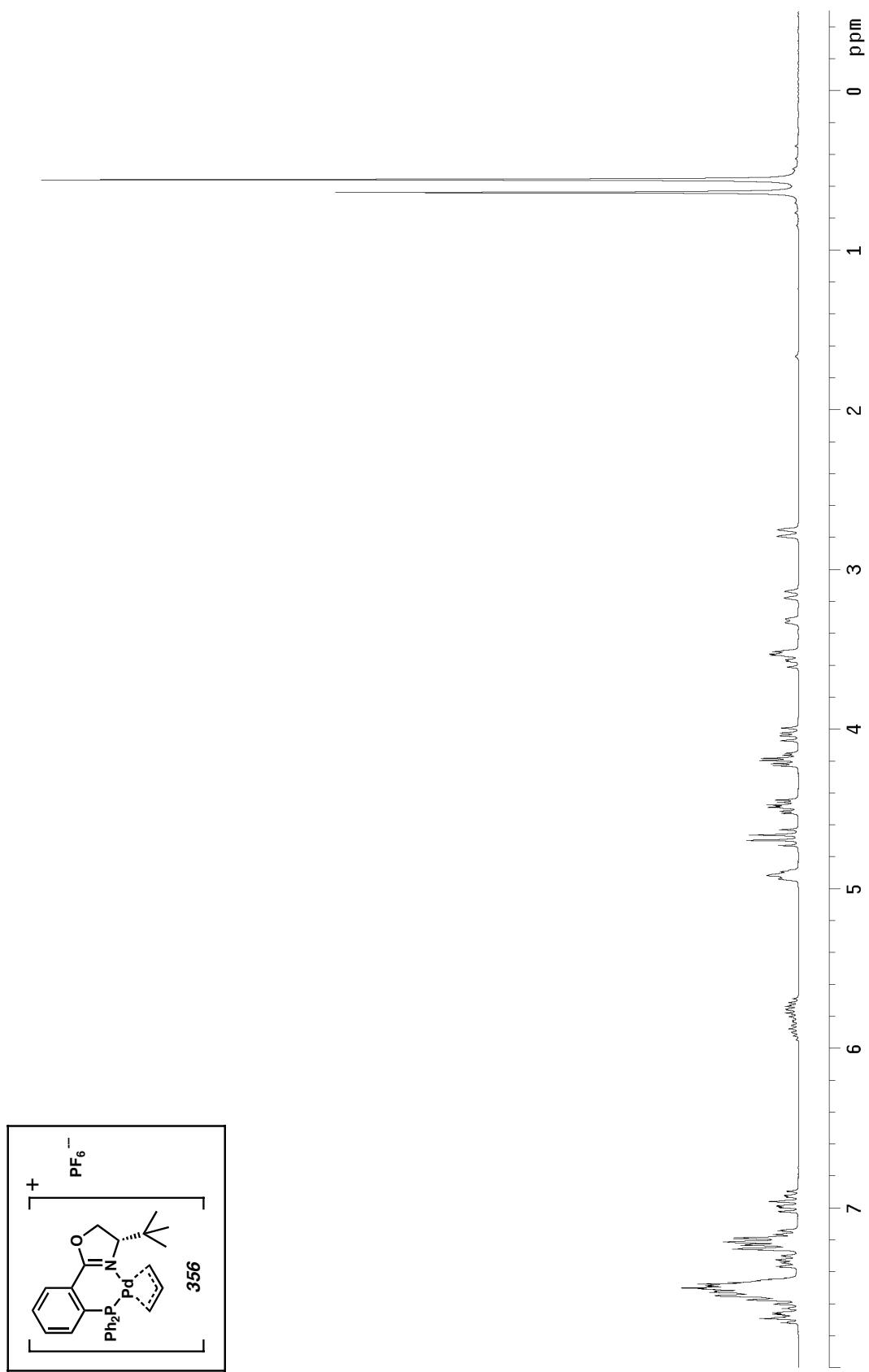


Figure A7.391  $^1\text{H}$  NMR of compound **356** (300 MHz,  $\text{CDCl}_3$ )

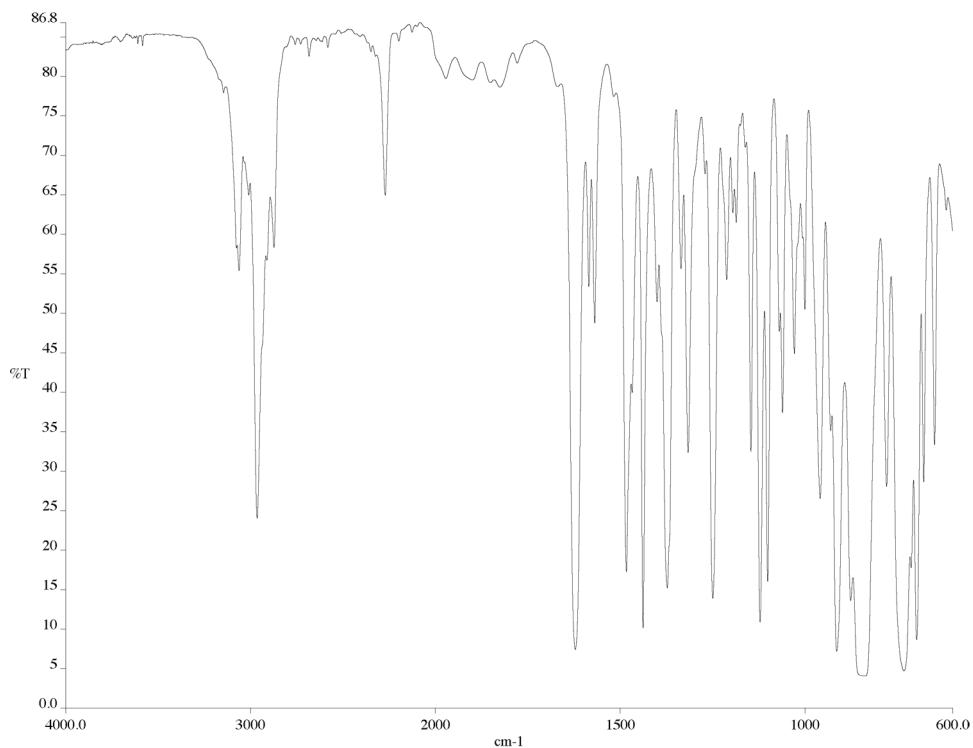


Figure A7.392 IR of compound **356** (NaCl/film)

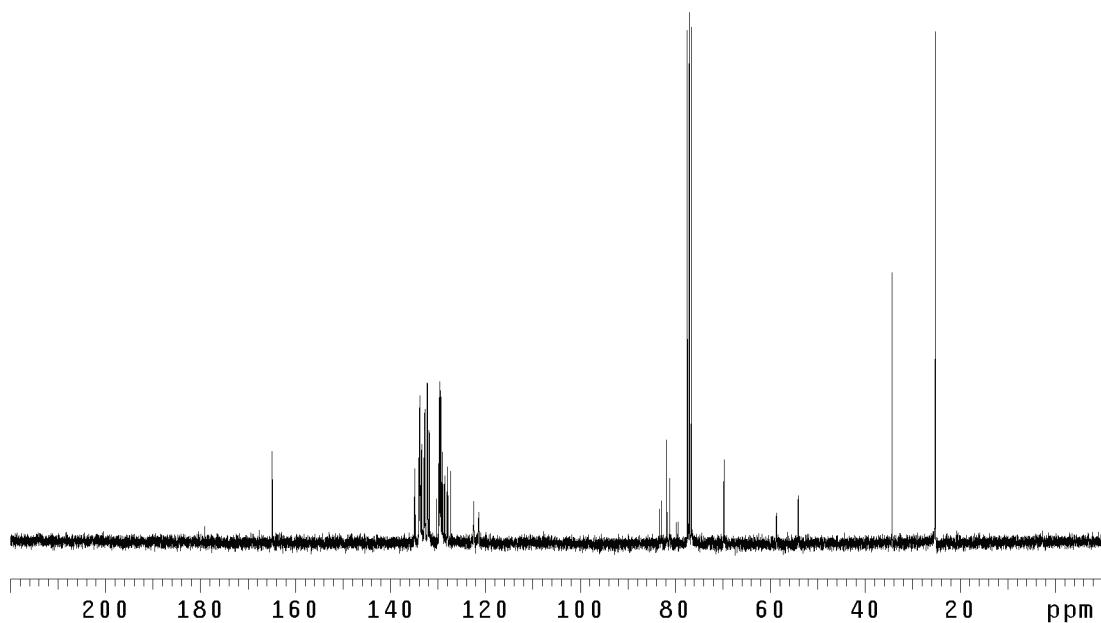


Figure A7.393 <sup>13</sup>C NMR of compound **356** (75 MHz, CDCl<sub>3</sub>)