APPENDIX A. CHAPTER 3 $^1$H AND $^{13}$C NMR SPECTRA
Image of a chemical structure and a spectrum graph.
APPENDIX B. CHAPTER 4 $^1$H AND $^{13}$C NMR SPECTRA
APPENDIX C. CHAPTER 5 $^1$H AND $^{13}$C NMR SPECTRA
the following isomer is not formed:

NOE correlation 6.59 (d, 1H) - 3.66 (s, 3H) is observed
NOE correlation 7.42 (1H) - 2.72 (s, 6H) is observed

1H-1H COSY correlation 7.42 (1H) - 7.91 (d, 1H) is observed

In the case of the other regioisomer the latter coupling would be a triplet signal.

vs

not observed
NOE correlation 3.48 (s, 3H) - 7.13 (d, 1H) and 6.11 (s, 1H) is observed. In case of the other regioisomer, a correlation of 3.48 (s, 3H) to one of the other OMe groups (3.86 or 3.77 ppm) and lack of 3.48 (s, 3H) - 6.11 (s, 1H) would be expected.