

Supporting information.

Figure 1. ^1H - ^1H COSY NMR spectrum of (1*RS*,2*SR*,3*RS*,4*SR*,5*RS*)-2,4-dibenzoyl-1,3,5-triphenylcyclohexan-1-ol, (1).

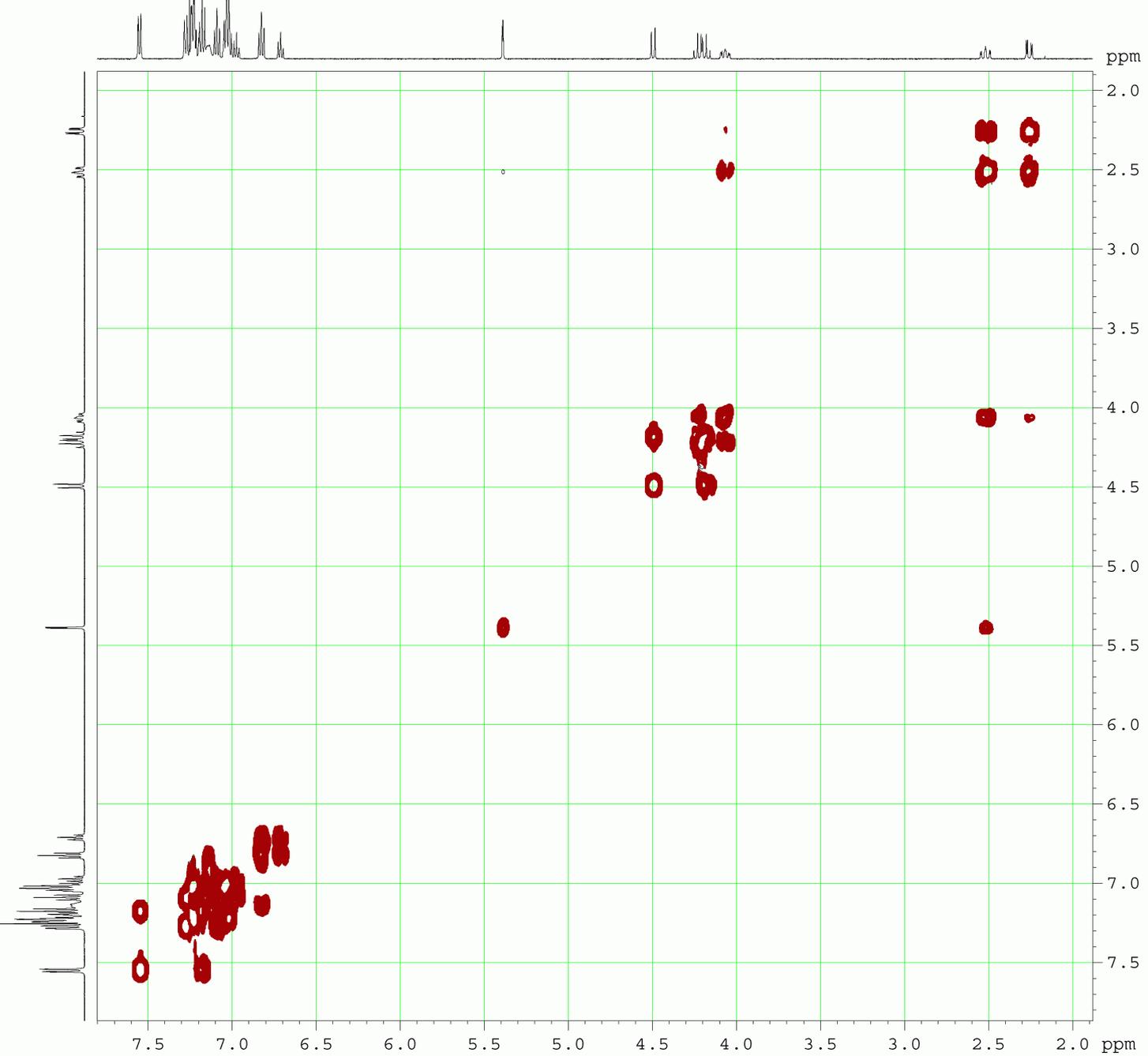
Figure 2. ^1H - ^1H NOESY NMR spectrum of (1*RS*,2*SR*,3*RS*,4*SR*,5*RS*)-2,4-dibenzoyl-1,3,5-triphenylcyclohexan-1-ol, (1).

Figure 3. ^1H - ^{13}C HSQC NMR spectrum of (1*RS*,2*SR*,3*RS*,4*SR*,5*RS*)-2,4-dibenzoyl-1,3,5-triphenylcyclohexan-1-ol, (1).

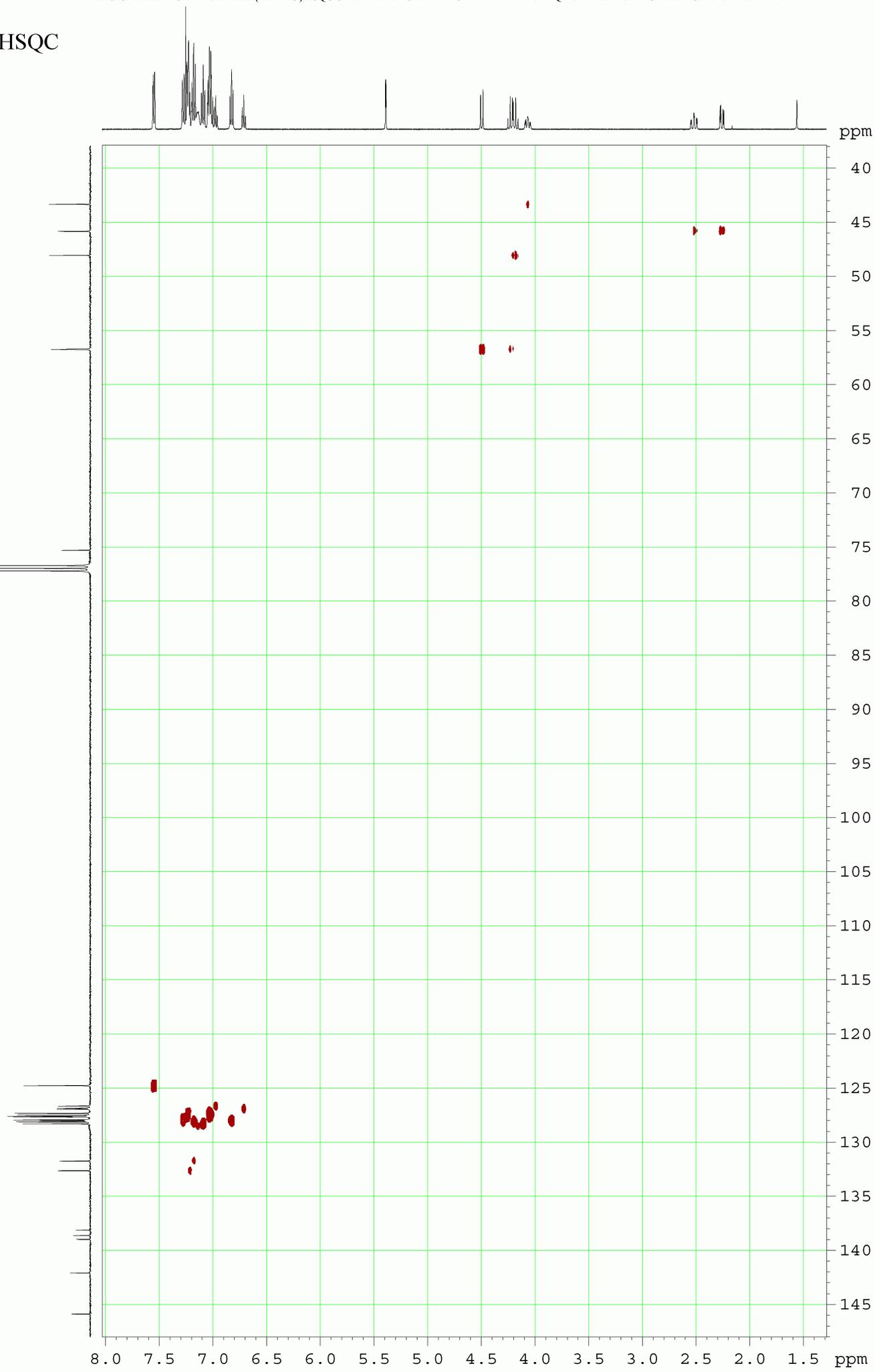
Figure 4. ^1H - ^{13}C HMBC NMR spectrum of (1*RS*,2*SR*,3*RS*,4*SR*,5*RS*)-2,4-dibenzoyl-1,3,5-triphenylcyclohexan-1-ol, (1).

Figure 5. FTIR spectrum of (1*RS*,2*SR*,3*RS*,4*SR*,5*RS*)-2,4-dibenzoyl-1,3,5-triphenylcyclohexan-1-ol, (1). The FTIR diffuse reflection spectrum was recorded with the "HYPERION-2000" IR microscope connected to the "IFS 66 v/s Bruker" FTIR spectrometer (Ge crystal, 2 cm^{-1} resolution, 150 scans, 600-4000 cm^{-1} wavenumber range).

COSY



HSQC



HMBC

