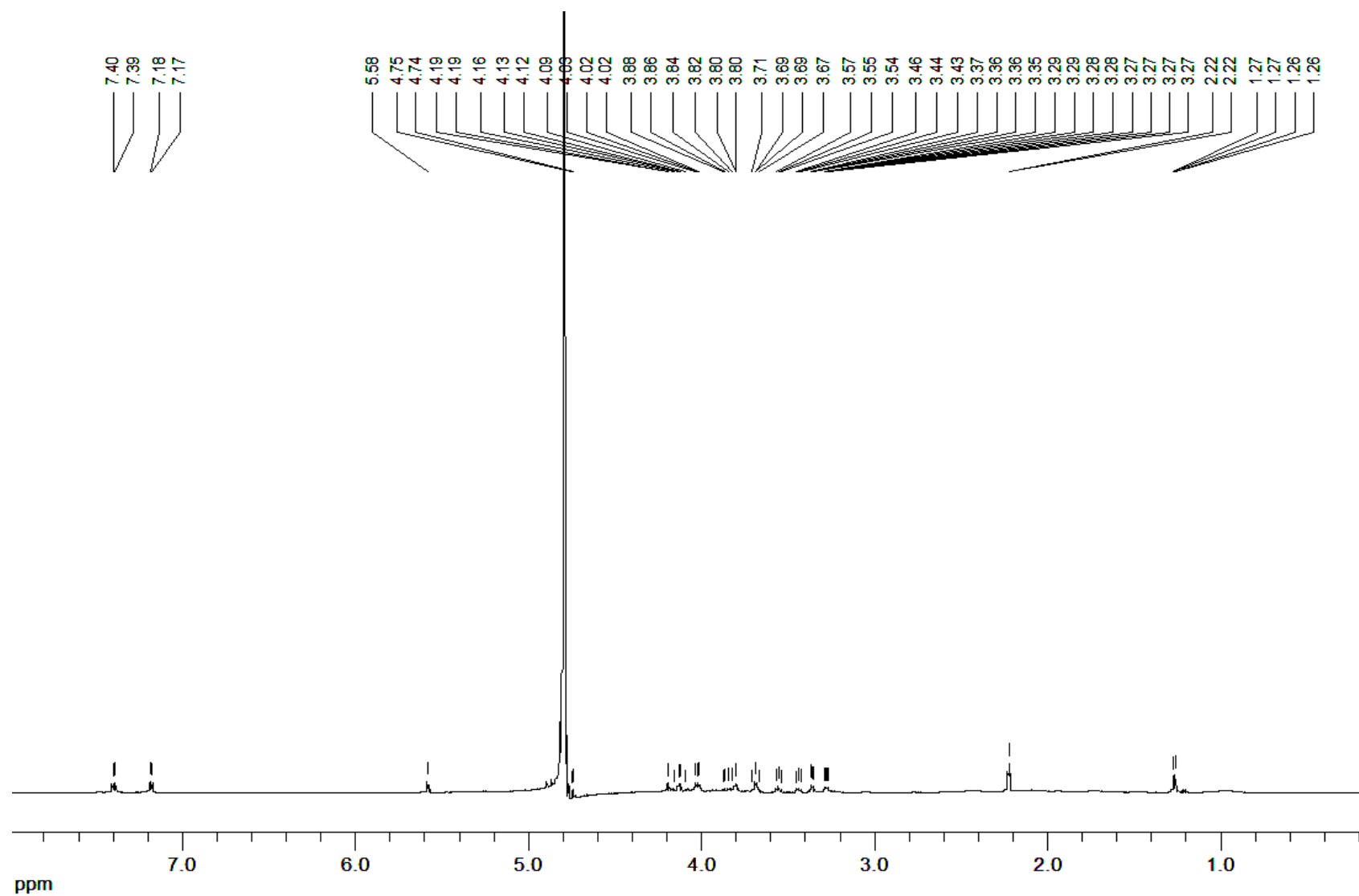
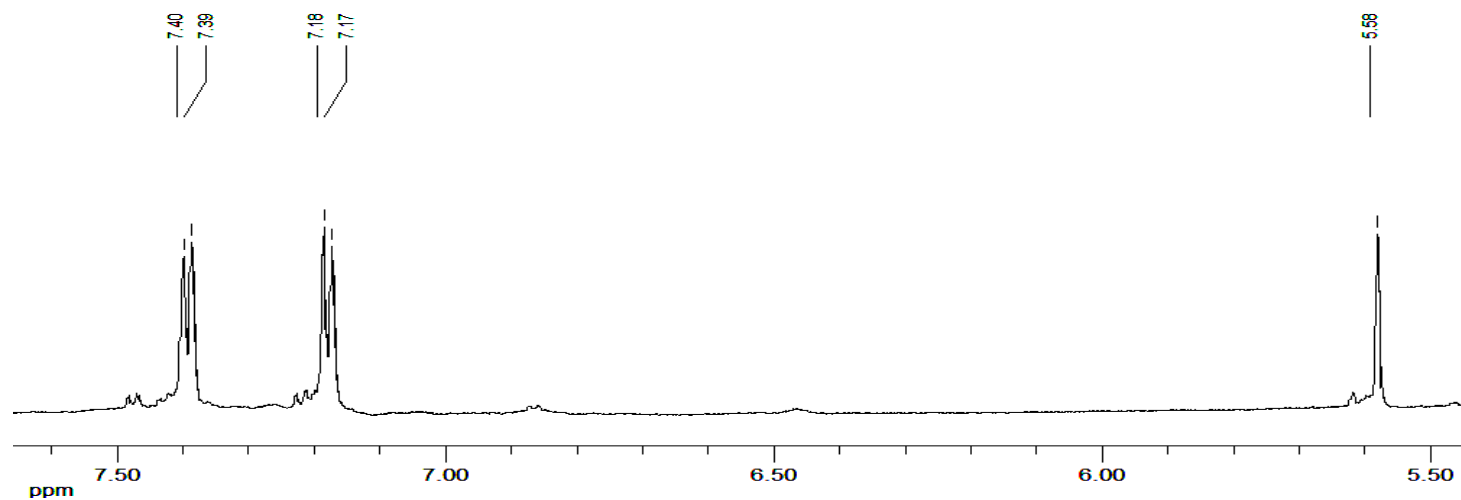


Supplementary data

Figure S1. ^1H NMR spectrum of MSP-RT extract containing 4- α -rhamnopyranosyloxy-benzyl glucosinolate



The fragment of the MSP-RT spectrum in aromatic range



The fragment of the MSP-RT spectrum in the aliphatic range

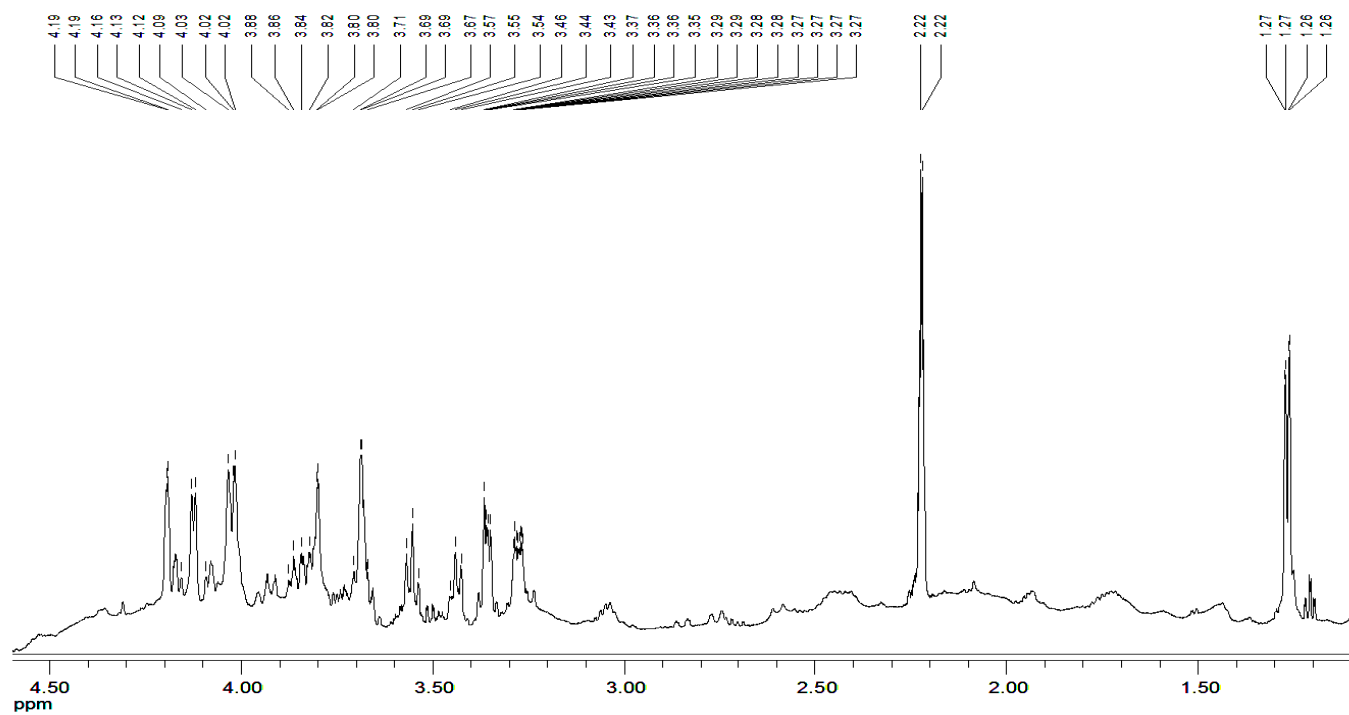
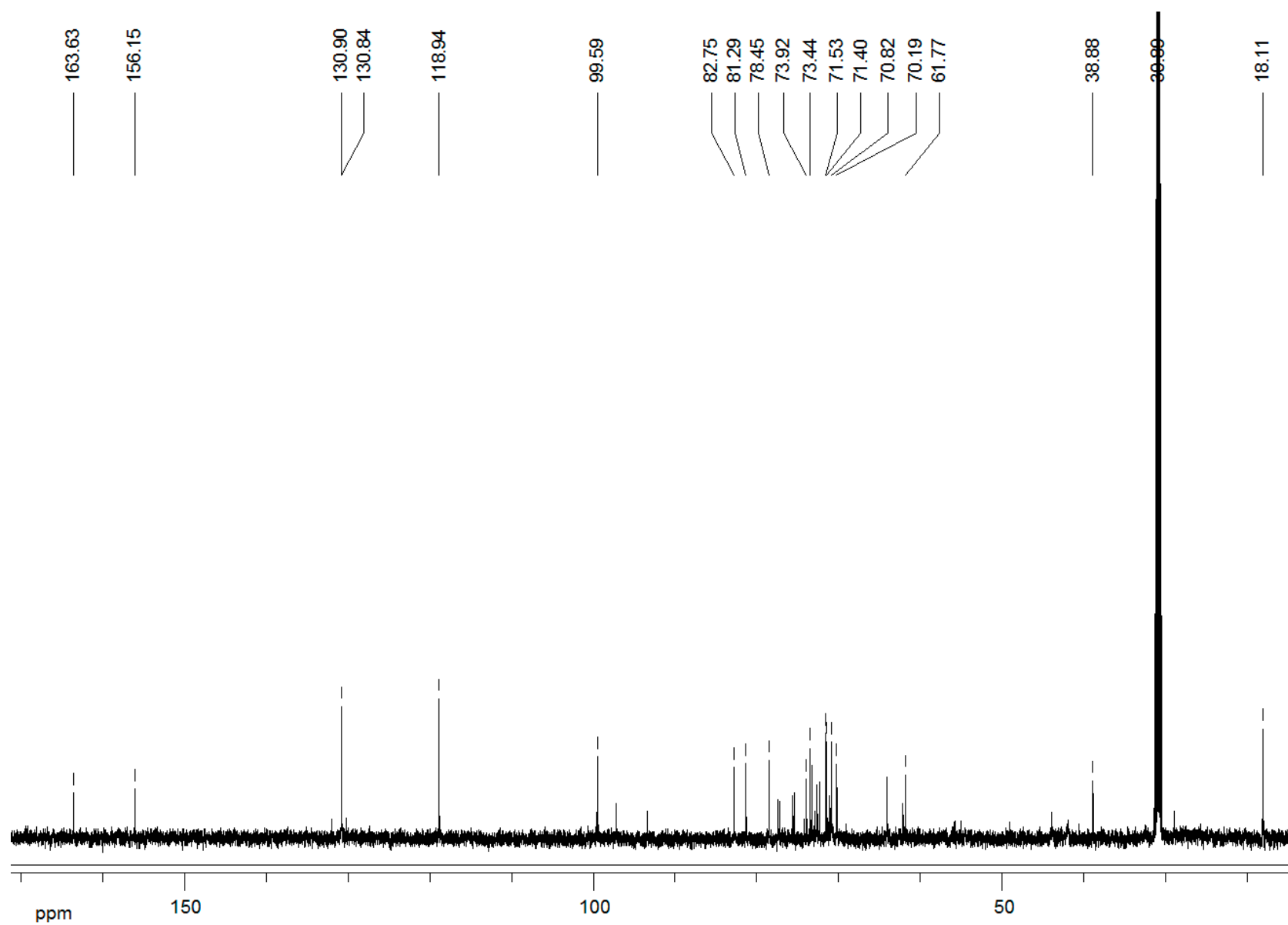


Figure S2. ^{13}C NMR spectrum of MSP-RT extract containing 4- α -rhamnopyranosyloxy-benzyl glucosinolate



^1H NMR (δ_{H} [ppm], 600 MHz, D_2O , 25 $^\circ\text{C}$) phenyl ring: 7.40 (2 H, d, J 7.0 Hz, 9-H), 7.18 (2 H, d, J 7.0 Hz, 8-H); pyranose ring: 5.58 (1 H, bs, 2-H), 4.19 (1 H, d, J 9.6 Hz, 3-H), 4.03 (1 H, dd, J 9.6 Hz, J 9.6 Hz, 4-H), 3.84 (1 H, qd, 6-H), 3.55 (1 H, t, J 9.6 Hz, 5-H); 4.13 (1 H, d (spin system AB), J -16.5 Hz, 11-H), 4.11 (1 H, d (spin system AB), J -16.5 Hz, 11'-H), 1.27 (3 H, d, J 7.2 Hz, CH_3); tiopyranose ring: 4.74 (1H, d 7.0 Hz, 2'-H); 3.80 (1H, dd 9.8 Hz, J 7.0 Hz, 3'-H); 3.69 (2H, diastereotopic spin system AB) J -12.0 Hz, J 6.8 Hz 7'-H); 3.44 (1H, t, J 9.5 Hz, 5'-H); 3.37 (1H, dd, J 9.8 Hz, J 9.5 Hz, 4'-H); 3.28 (1H, qd, 6'-H).

^{13}C NMR, (δ_{C} [ppm], 150 MHz, D_2O (acetone D_6), 25 $^\circ\text{C}$) 163.63, 156.15, 130.90, 130.84, 118.94, 99.59, 82.75, 81.29, 78.46, 73.92, 73.44, 71.53, 71.40, 70.82, 70.19, 61.77, 38.88, 18.11.

Figure S3. Mass spectrum containing molecular peak m/z 570.0203 confirming the structure in MSP-RT extract

