

Figure Legends for Supporting Information

Fig. S1. HR-ESI-MS/MS fragmentation analysis of compounds **1–4** isolated from all tissues of *Solanum viarum* fruit and purified by C₁₈-HPLC-DAD. Respectively, panels **A**, **B**, **C**, and **D** show the full mass spectral range m/z 150–850, and the partial ranges m/z 702–740, m/z 345–565, and m/z 177–338. In panel **D**, the abbreviations S, G, P, M, and W denote loss of sinapoyl, glucosyl, propanedioic acid, and methyl groups, and H₂O, respectively.

Fig. S2. Proposed formation pathways for selected HR-ESI-MS ion fragments of compounds **1–4** isolated from fruit of *Solanum viarum* (see **Table 2** in Ma et al.). The structures shown in panel **A** are in accord with all but one of the ion fragments from compounds **1–4** that differ in their m/z values by ≤ 7.0 mDa (note that m/z values indicated in **A** are from mass spectra of compound **1**). A single exception was the ion fragment m/z 367.1028 from compound **4**, the formation of which is depicted in panel **B**.

Fig. S3. HR-ESI-MS fragmentation of compound **2** isolated from *S. viarum* fruit with the aperture 1 voltage set to 80V. Panels **A** and **B**, respectively, show the full mass spectral range m/z 140–870, and the expanded partial range m/z 14–280. Presence of the ion fragments m/z 233.0668 (malonylquinic acid – COO – H) and 173.0452 (quinic acid – H₂O – H) > 191.0559 (quinic acid – H) are consistent with the inclusion of 4-*O*-malonylquinic acid in the structure, as deduced from the NMR analyses.

Fig. S4. ¹H-NMR spectra of compounds **1** and **2** isolated from fruit tissues of *S. viarum*. Panels **A** and **B** show the 300 and 500 MHz spectra of **1** plus the 300 MHz spectrum of **2** over the ranges 1.8–7.7 ppm and 3.10–3.95 ppm, respectively. Panels **C** and **D** show enlargements of the

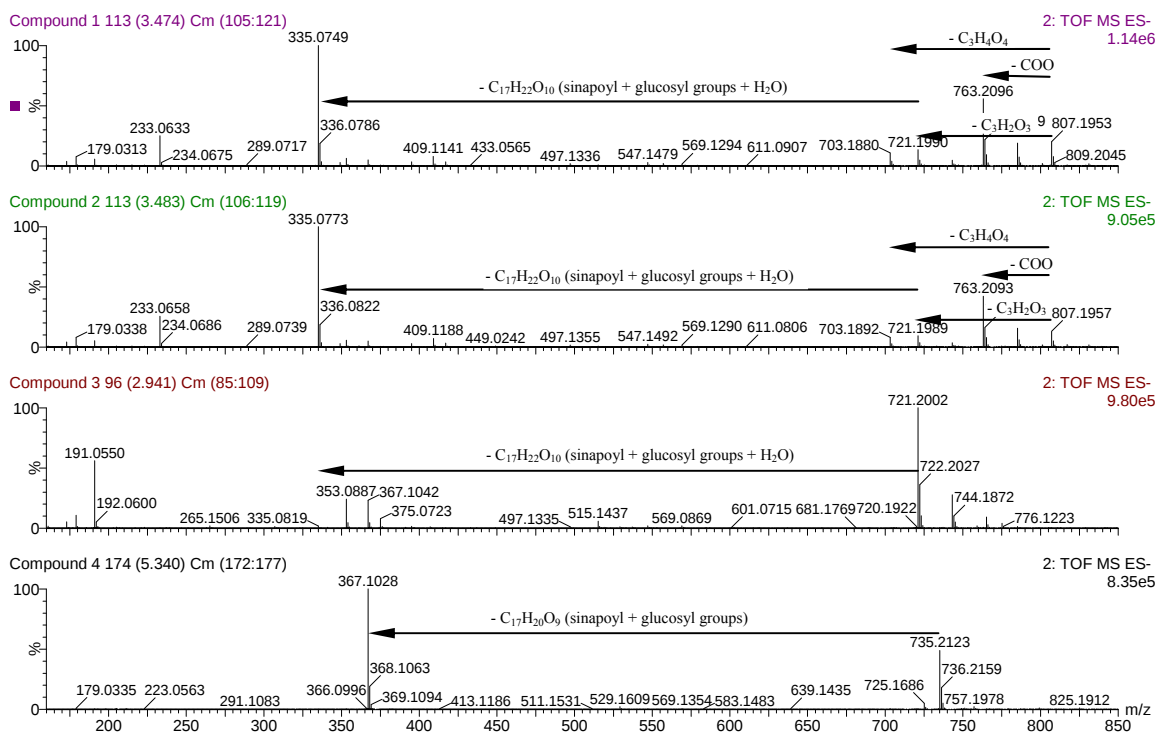
500 MHz spectra of **1** from panels **A** and **B**, respectively, including integration values along the X-axis for the individual and grouped peaks indicating the number of protons each represents.

Fig. S5. ^{13}C -NMR spectra of compound **1** isolated from fruit tissues of *S. viarum* over the full range from 33–181 ppm (**A**) and over the narrow range from 163.0–179.5 ppm (**B**), which includes the four carbonyl carbons representing the caffeoyl, sinapoyl, malonyl, and quinic acid moieties in the structure.

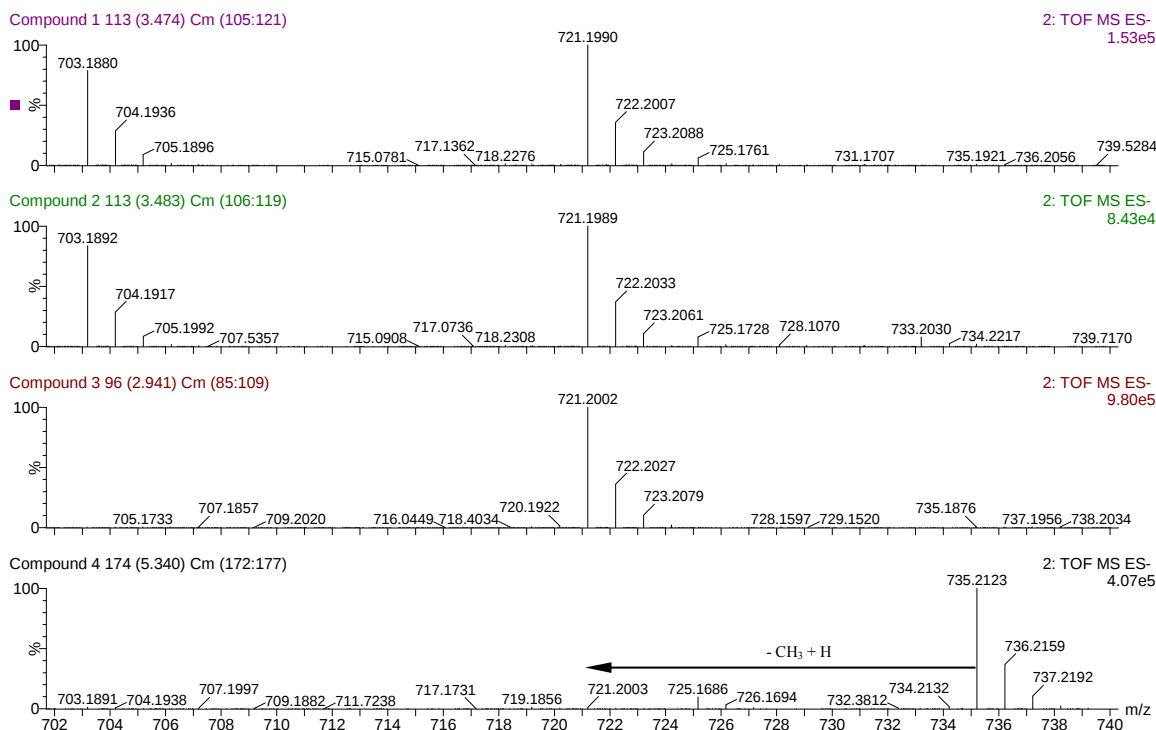
Fig. S6. Heteronuclear single quantum coherence (HSQC) spectrum of compound **1** isolated from fruit tissues of *S. viarum* over the ranges 1.8–7.7 ppm (^1H) and 33–150 ppm (^{13}C).

Fig. S7. Heteronuclear multiple band correlation (HMBC) spectra of compound **1** isolated from fruit tissues of *S. viarum* over the ranges: **A**, 1.6–7.8 ppm (^1H) and 33–185 ppm (^{13}C); **B**, 4.2–7.7 ppm (^1H) and 165.6–171.4 ppm (^{13}C); **C**, 6.70–7.12 ppm (^1H) and 144.5–152.0 ppm (^{13}C); **D**, 6.78–7.09 ppm (^1H) and 146.8–150.8 ppm (^{13}C); and **E**, 4.705–4.815 ppm (^1H) and 147.4–149.8 ppm (^{13}C).

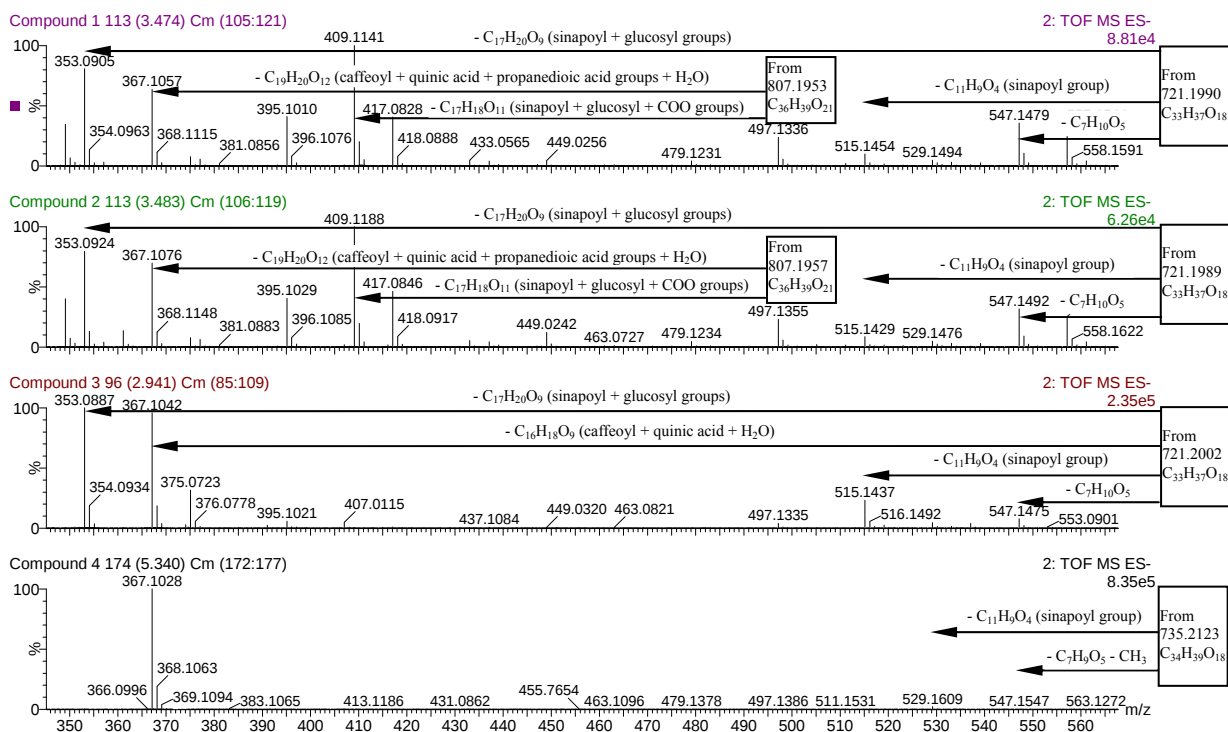
A



B



C



D

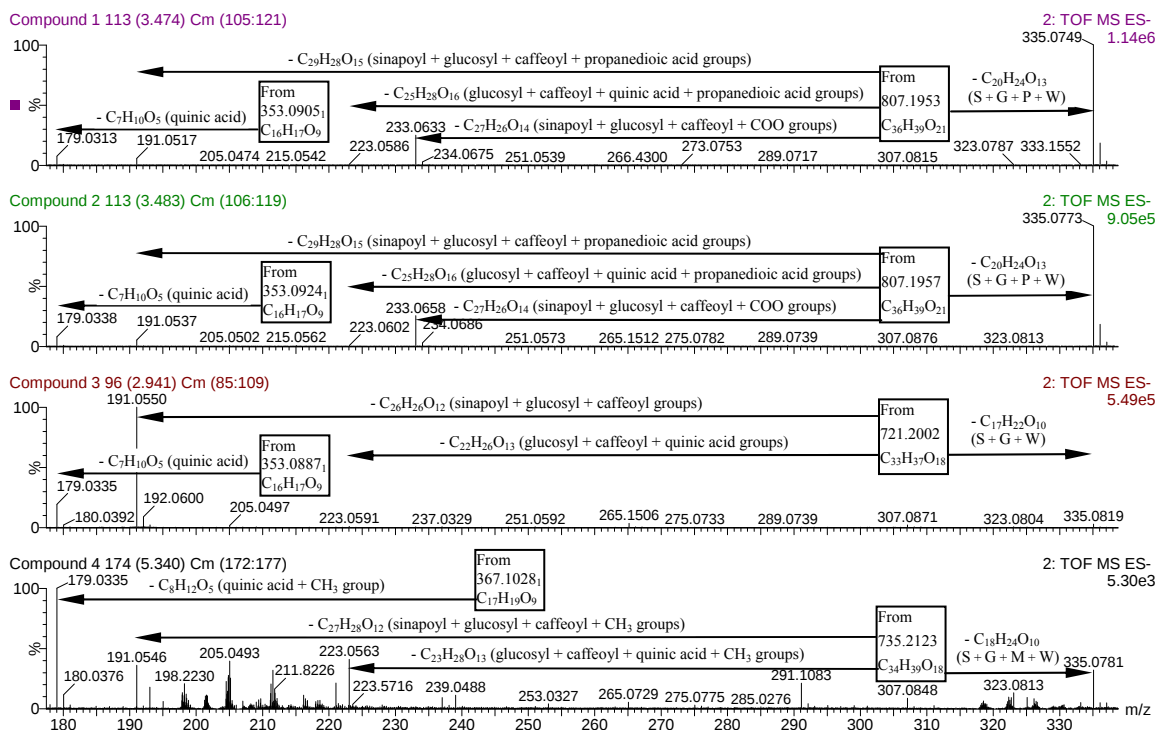


Fig. S1. (Supporting Information) Ma et al.

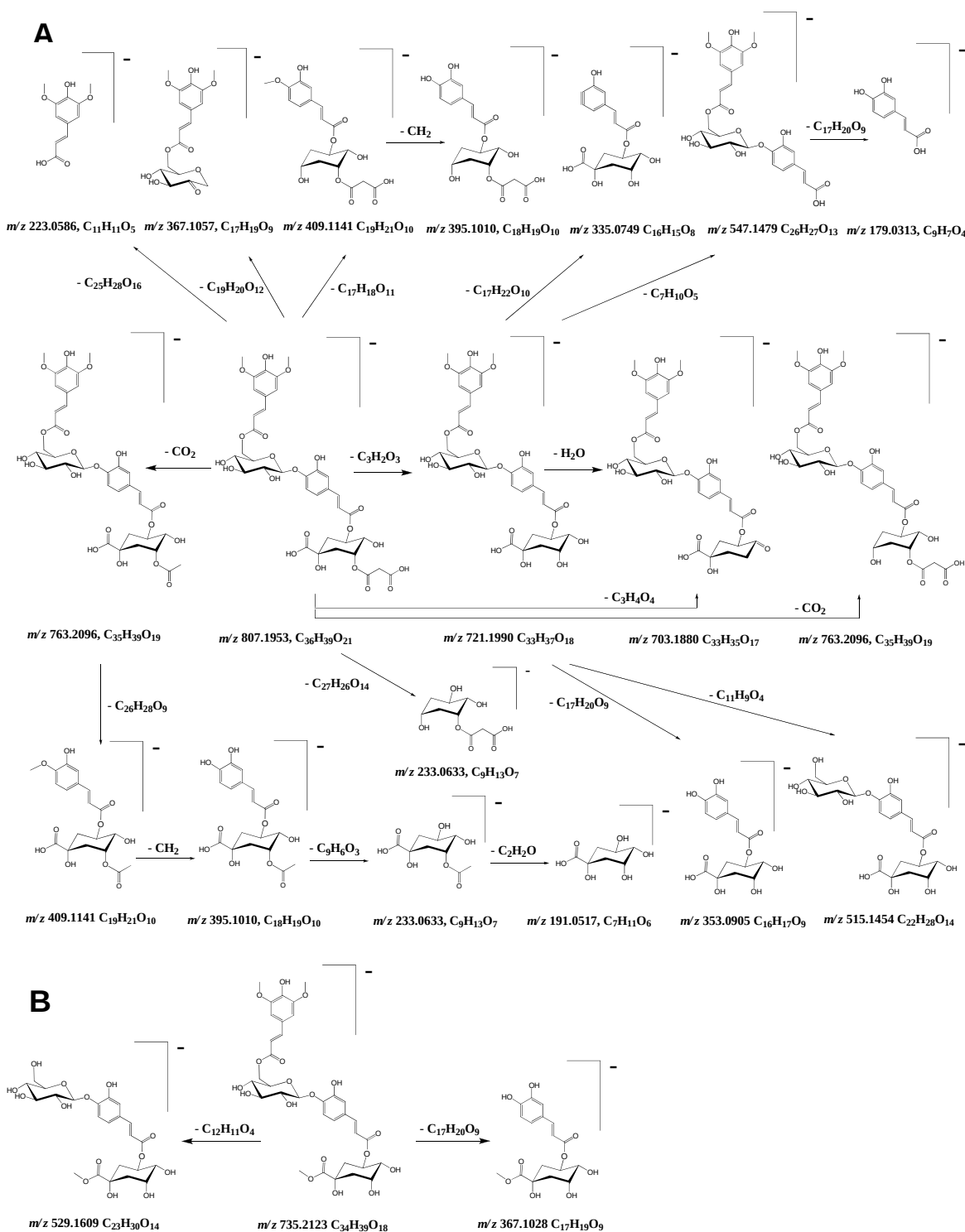


Fig. S2. (Supporting Information) Ma et al.

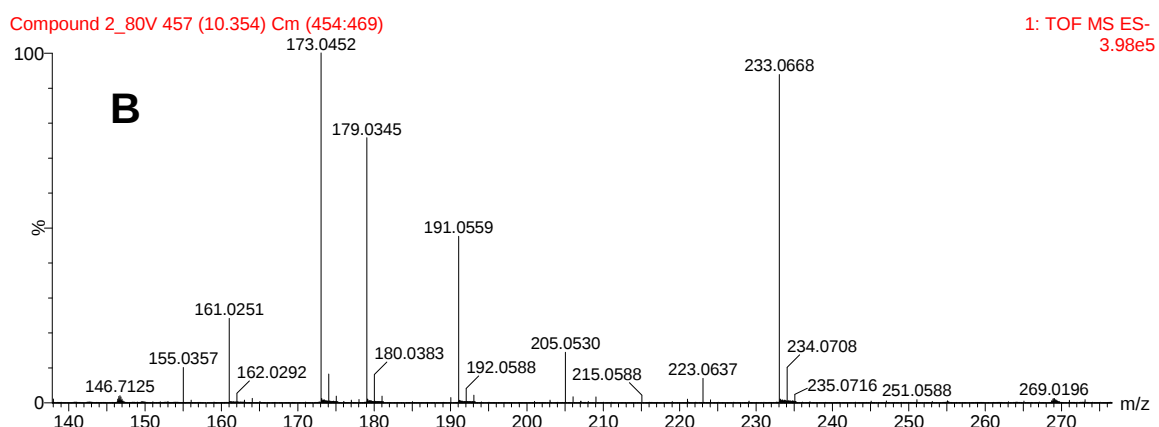
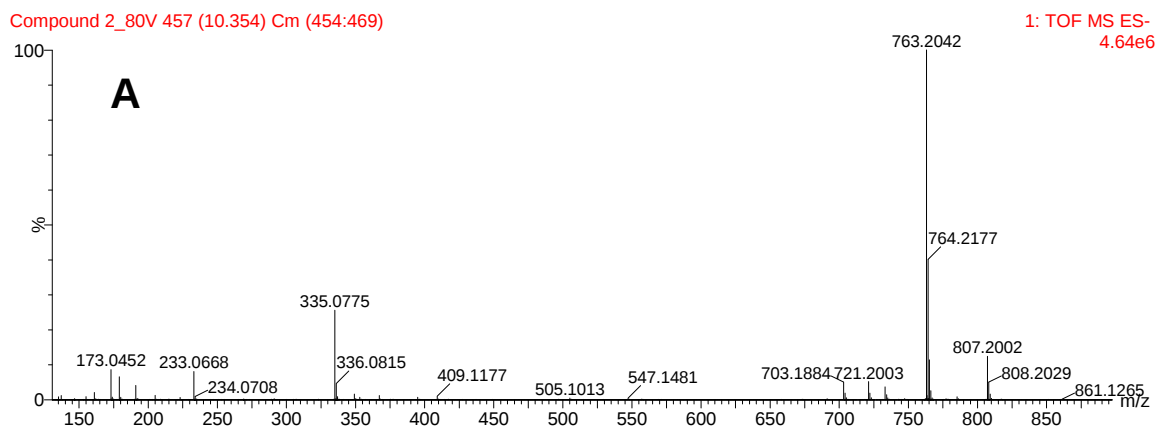
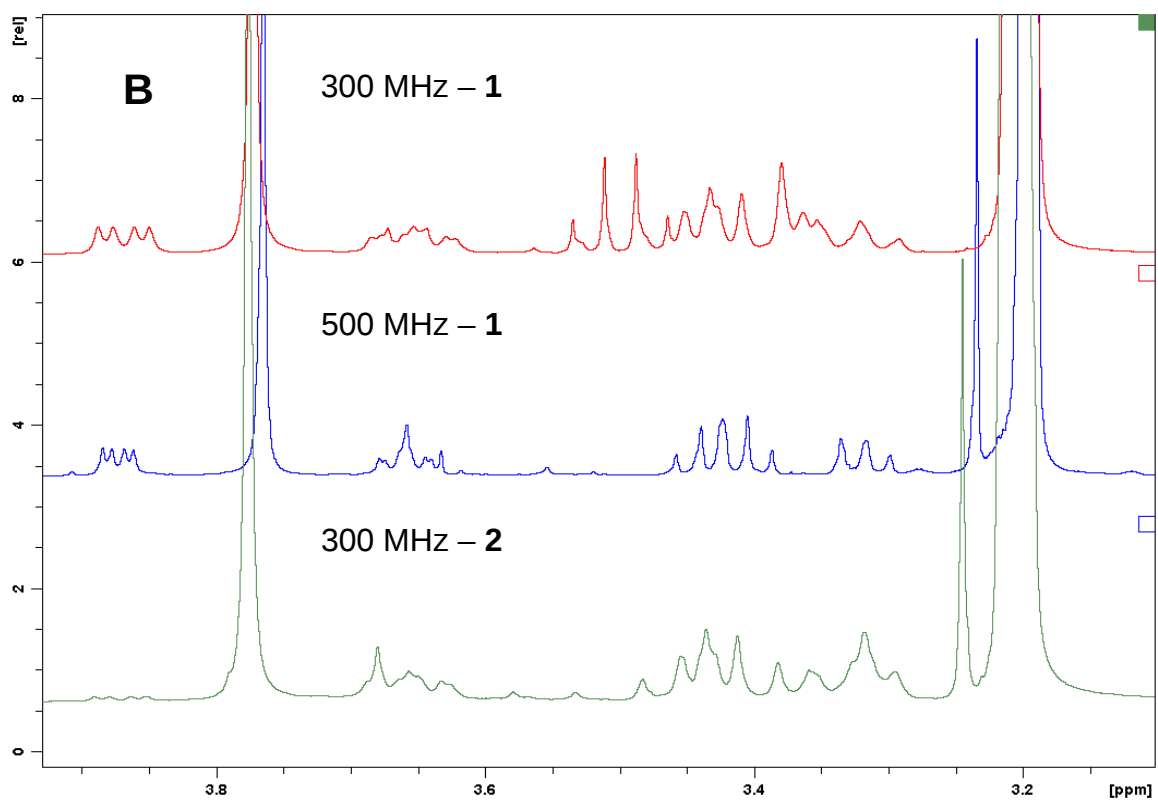
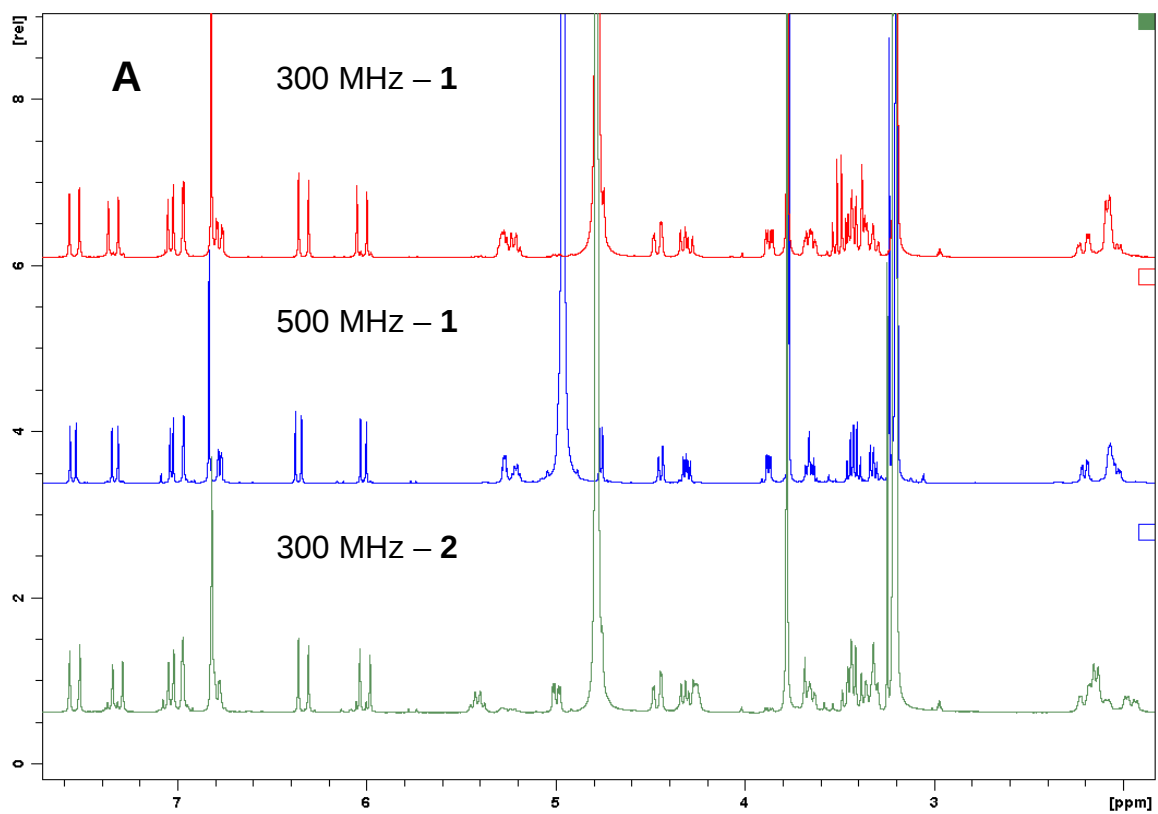


Fig. S3. (Supporting Information) Ma et al.



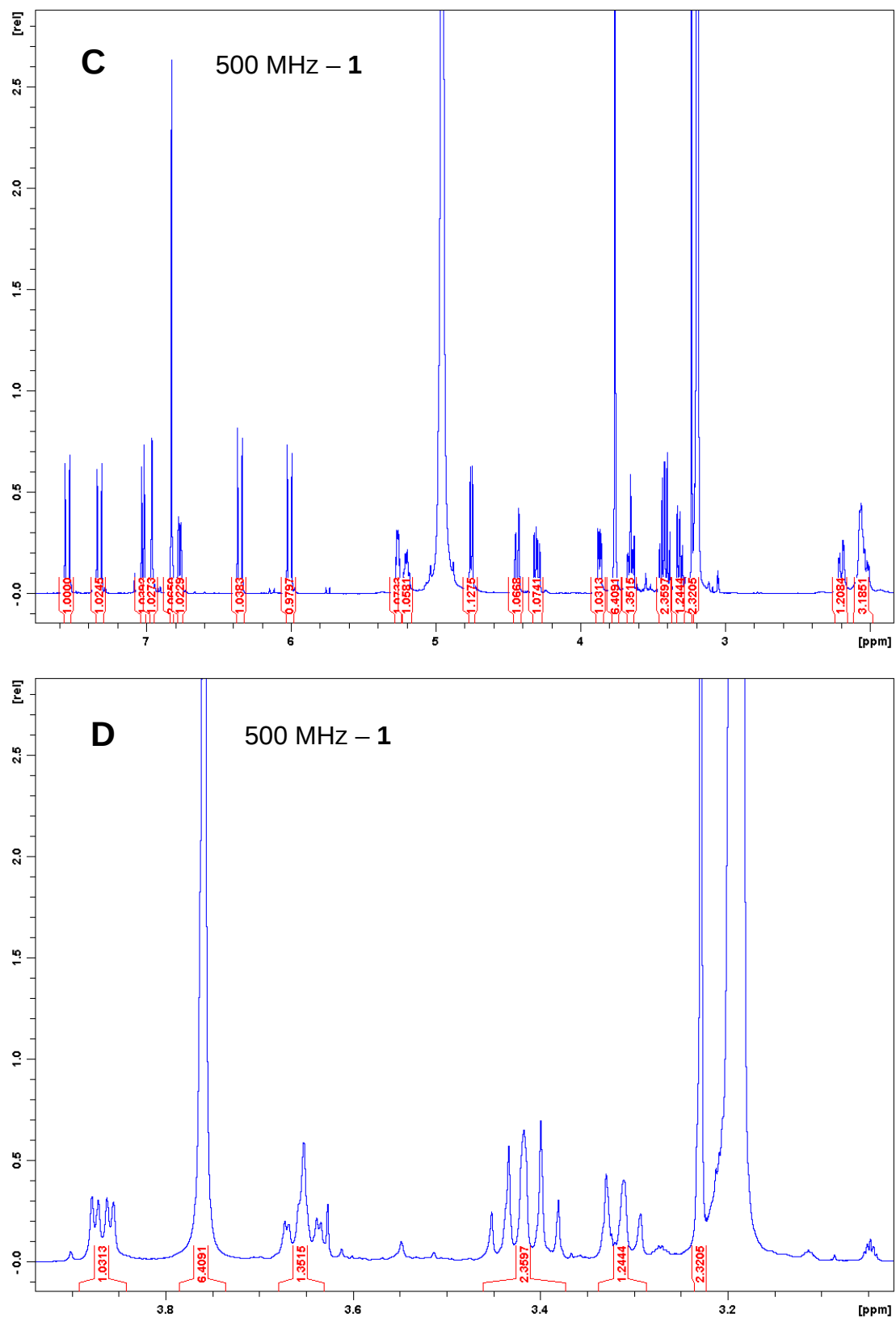


Fig. S4. (Supporting Information) Ma et al.

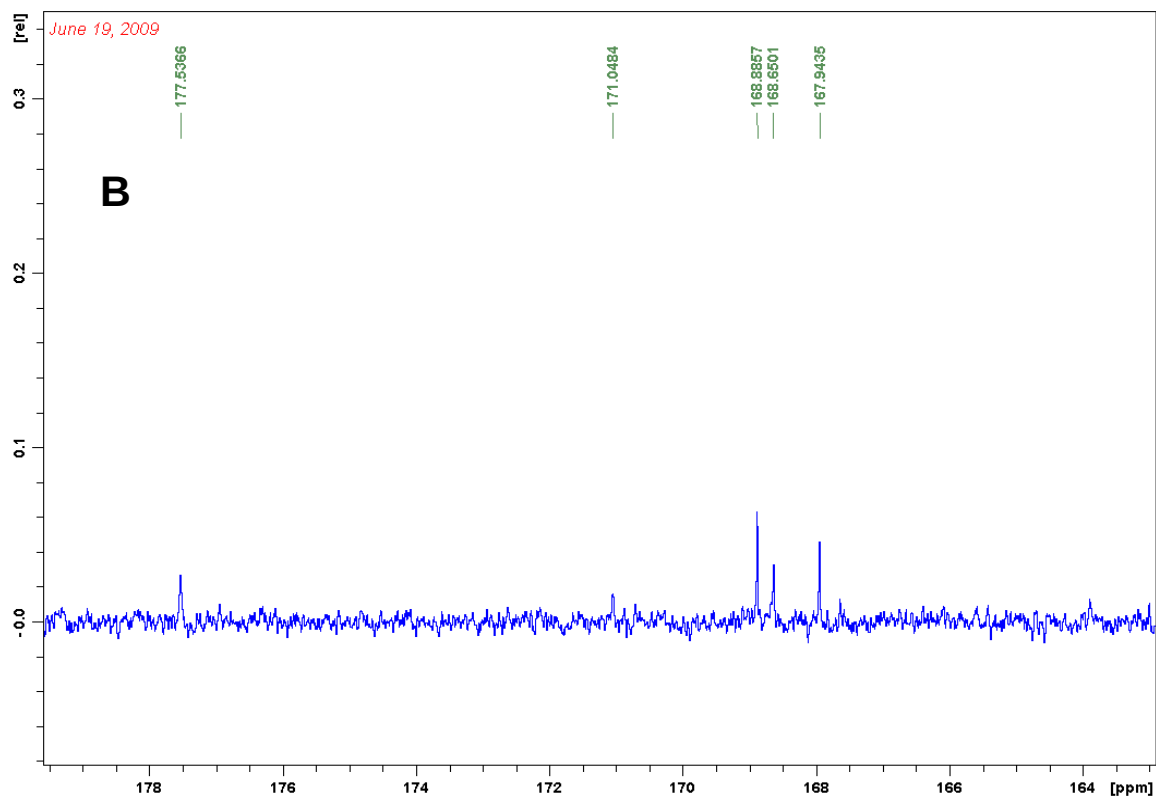
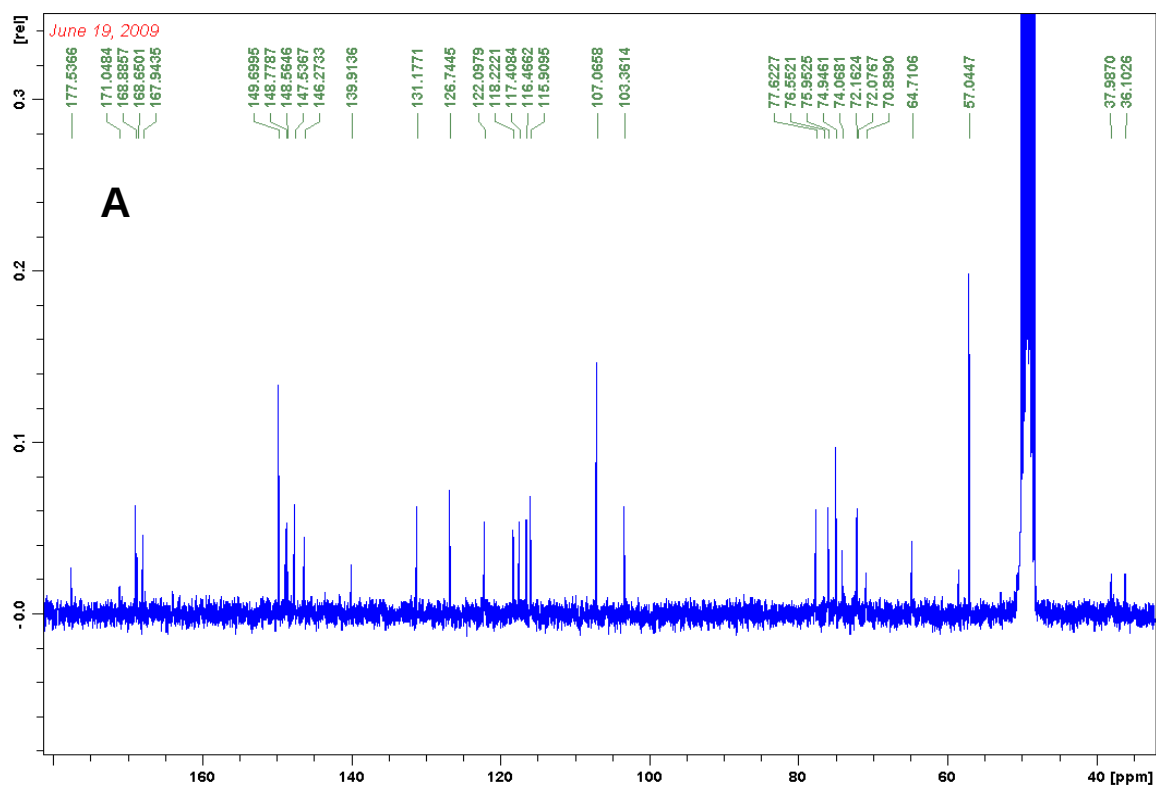


Fig. S5. (Supporting Information) Ma et al.

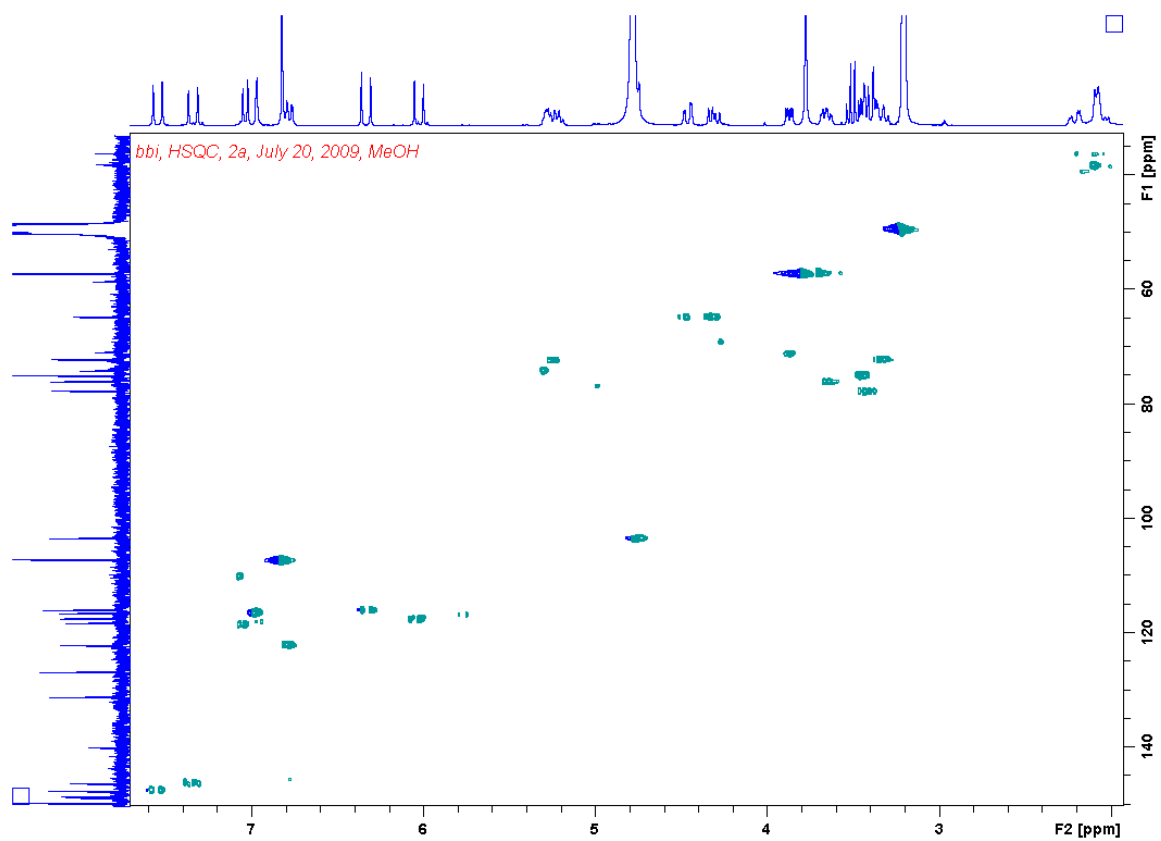
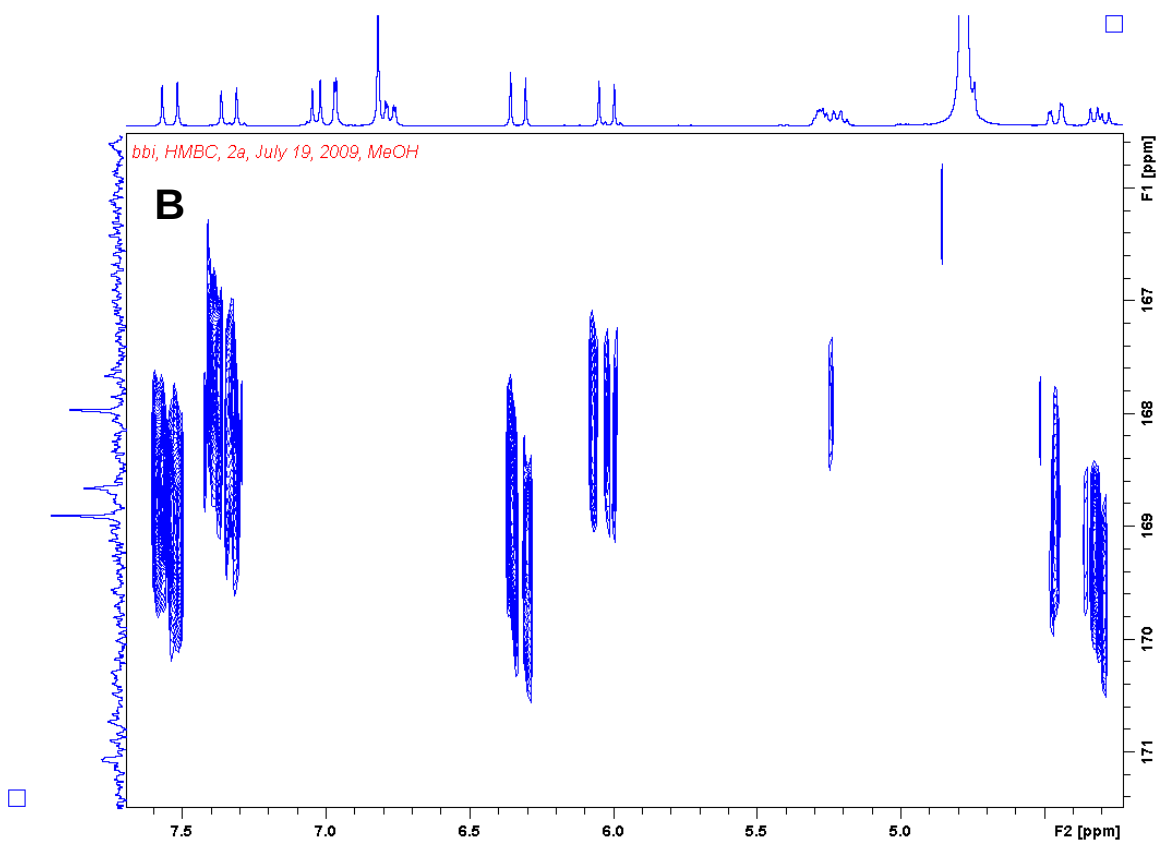
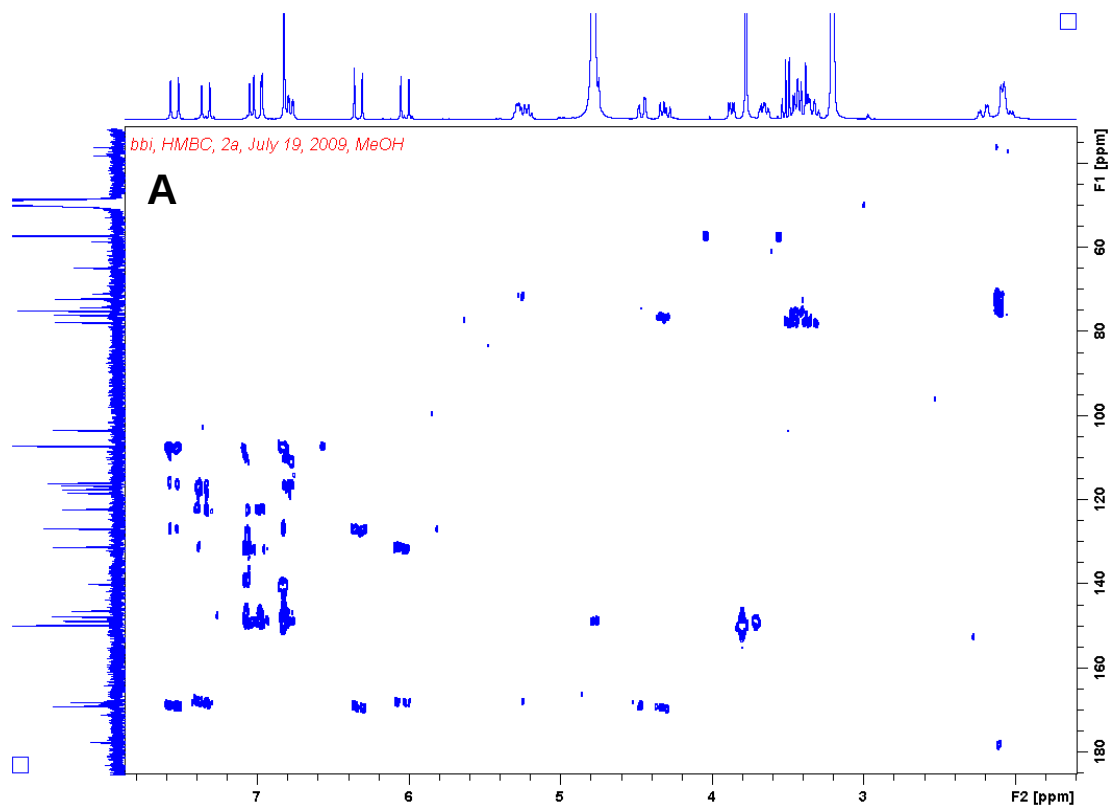
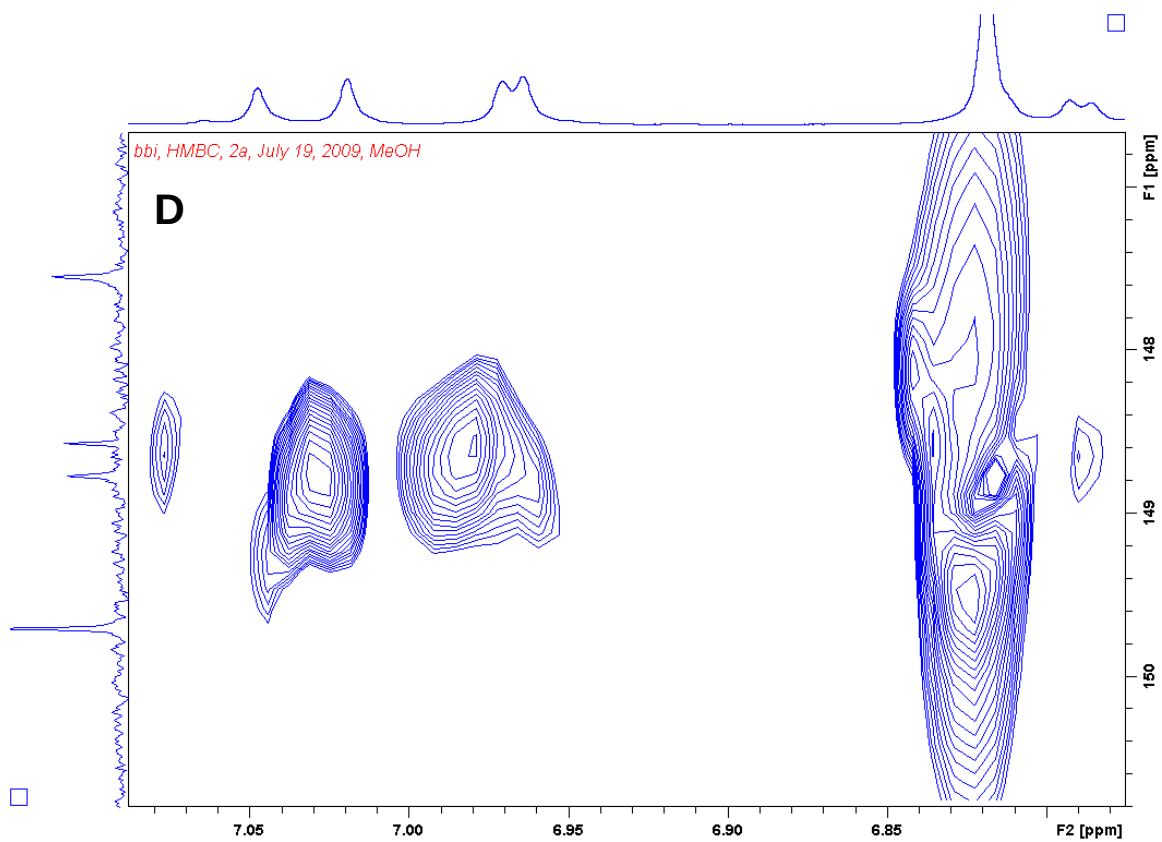
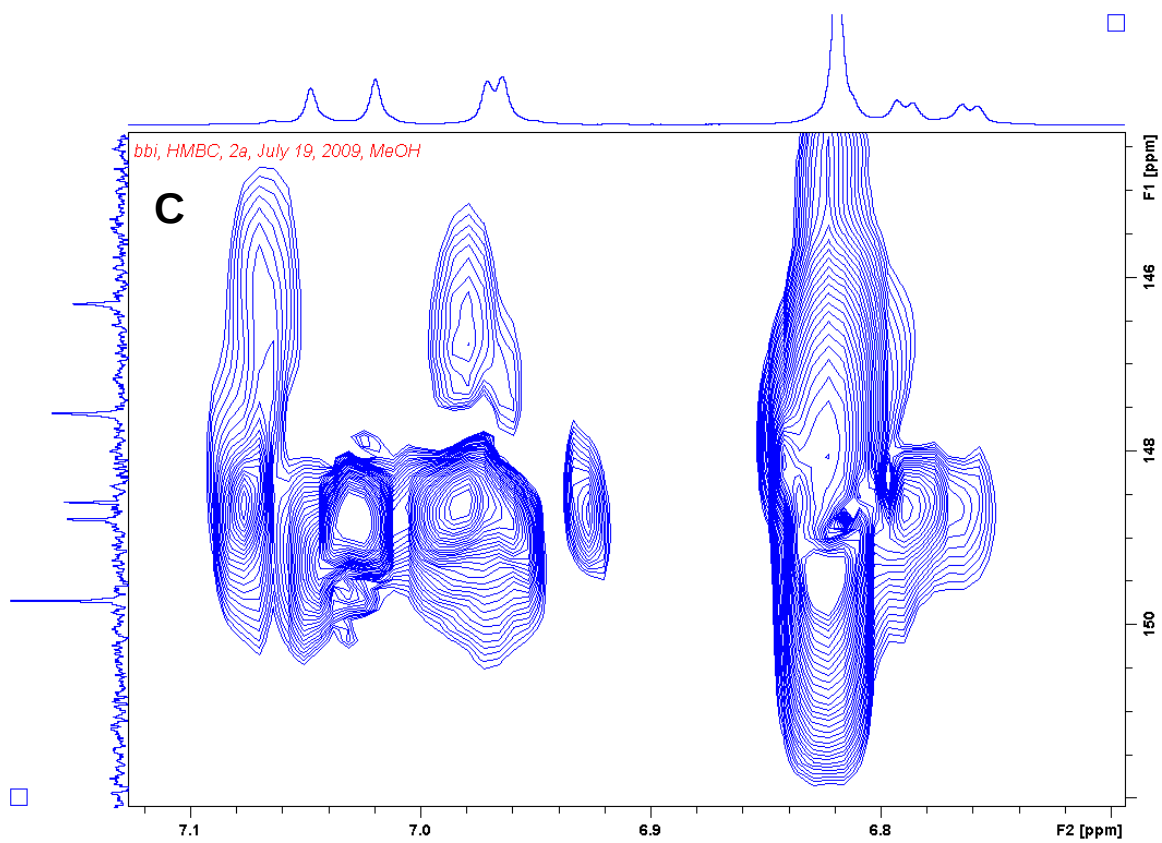


Fig. S6. (Supporting Information) Ma et al.





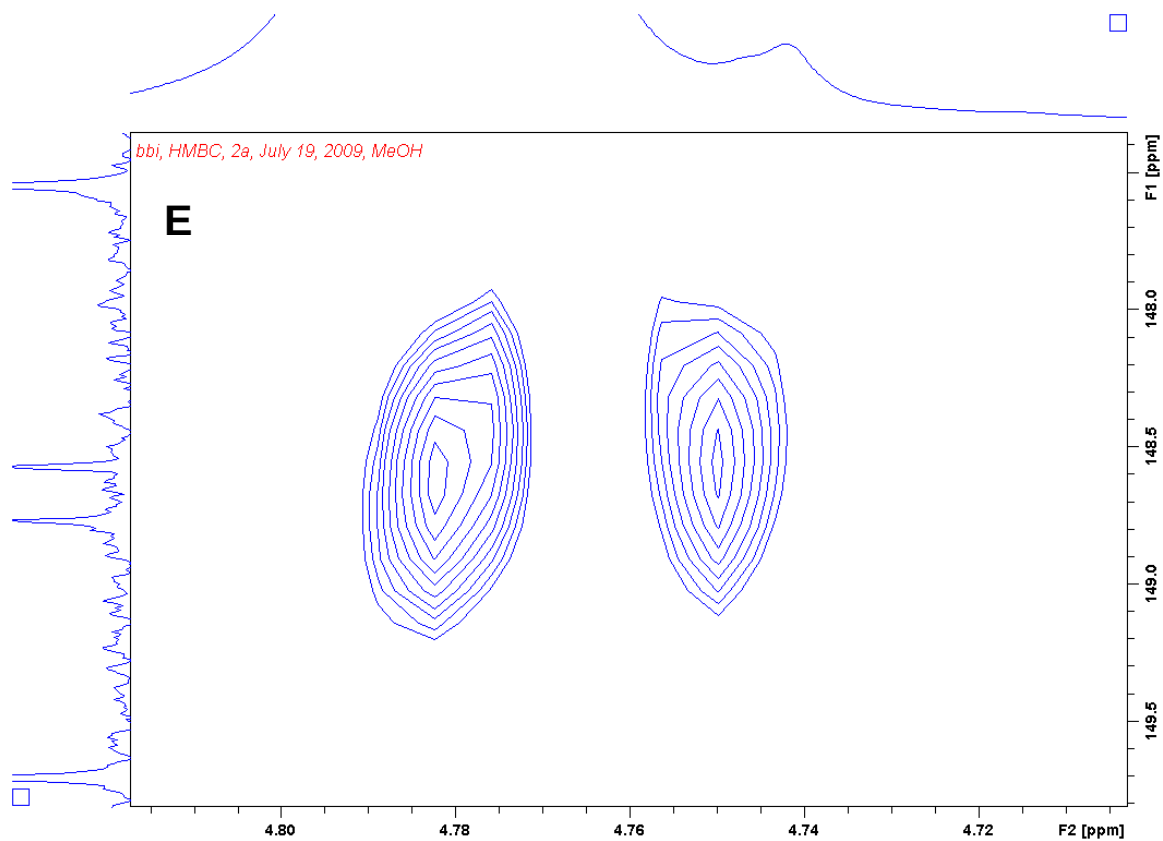


Fig. S7. (Supporting Information) Ma et al.