

Supporting Information

Tomentosones A and B, hexacyclic phloroglucinol derivatives from the Thai shrub *Rhodomyrtus tomentosa*

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Experimental Section

General procedures

Melting point was determined on a Fisher-Johns melting point apparatus and was uncorrected.

Optical rotations were measured in CHCl₃ solution on a polarimeter. UV spectra were recorded by a spectrophotometer. IR spectra were measured with a FT-IR spectrophotometer. NMR spectra were recorded by FT-NMR spectrometers at 300 MHz for ¹H and at 75 MHz for ¹³C.

The chemical shift values were reported in ppm referenced to TMS as the internal standard at δ 0.00. The EI and FAB mass spectra were obtained from a mass spectrometer. All solvents were distilled at their boiling points prior to use. Column chromatography (CC) and quick column chromatography (QCC) were performed on silica gel 100 (0.063-0.200 mm) and silica gel 60H, respectively. TLC was carried out using aluminum sheets coated with silica gel 60 F₂₅₄ and compounds were visualized with a UV lamp. Preparative TLC was performed on TLC glass plates coated with silica gel 60 F₂₅₄.

Table S1. HMBC correlations of 1 and 2

No.	H → C
9	C-1, C-4a, C-4b, C-8, C-8a, C-9a, C-1", C-2"
10	C-1, C-2, C-3, C-11
11	C-1, C-2, C-3, C-10
12	C-3, C-4, C-4a, C-13
13	C-3, C-4, C-4a, C-12
2'	C-1', C-3', C-4', C-5'
3'	C-1', C-2', C-4', C-5'
4'	C-2', C-3', C-5'
5'	C-2', C-3', C-4'
2"	C-9, C-1", C-3", C-4"
3"	C-1", C-2", C-4"
4"	C-1", C-2", C-3"
7""	C-6, C-7, C-8, C-1,,, C-5,,, C-6,,, C-8,,, C-9,,,
10""	C-8,,, C-9,,, C-11,,,
11""	C-8,,, C-9,,, C-10,,,
12""	C-1,,, C-2,,, C-3,,,
13""	C-1,,, C-2,,, C-3,,,
14""	C-3,,, C-4,,, C-5,,, C-15,,,
15""	C-3,,, C-4,,, C-5,,, C-14,,,
6-OH	C-5, C-6, C-7

Fig. S1 ^1H NMR (300 MHz, CDCl_3) spectrum of tomentosone A (1)

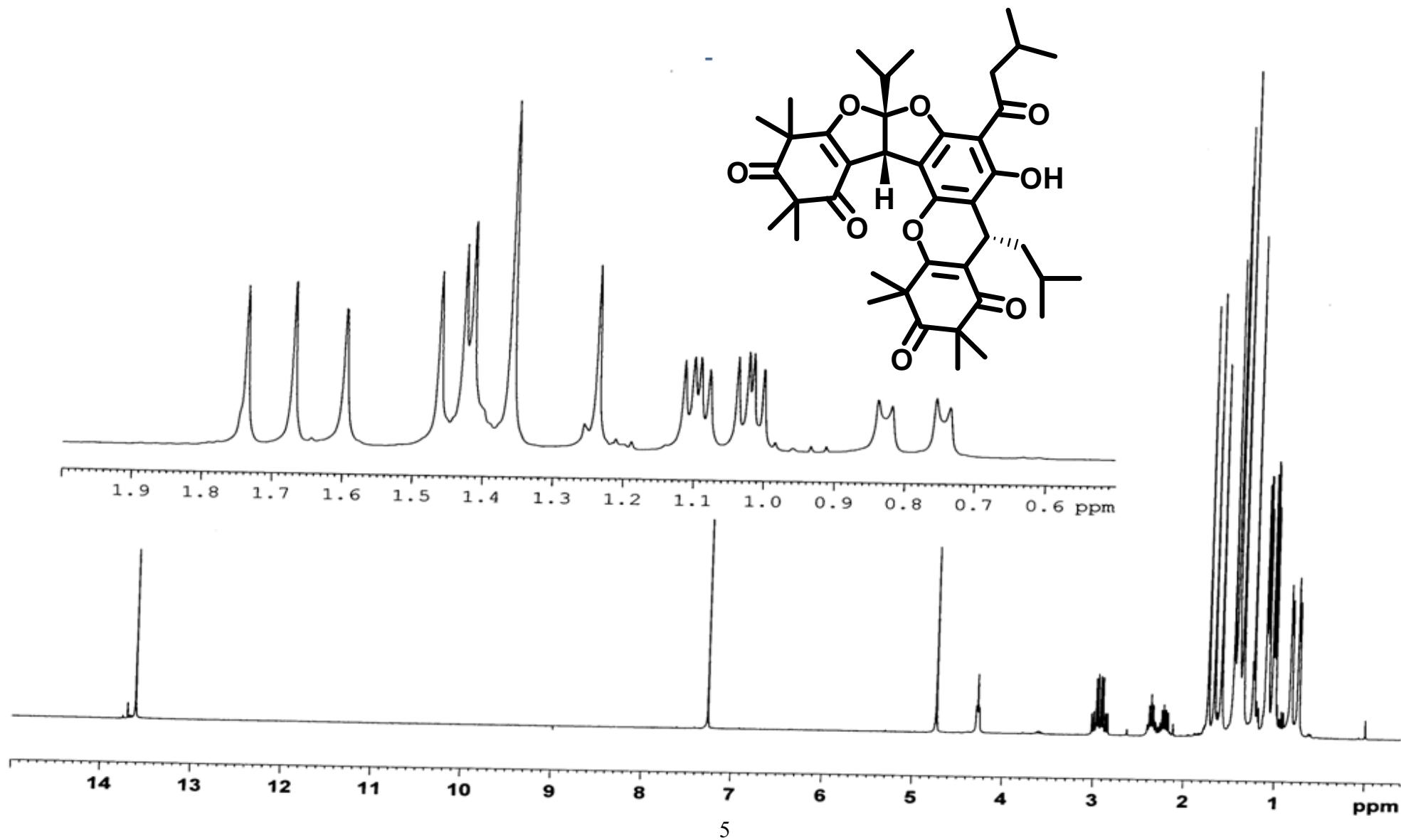


Fig. S2 ^{13}C NMR (75 MHz, CDCl_3) spectrum of tomentosone A (1)

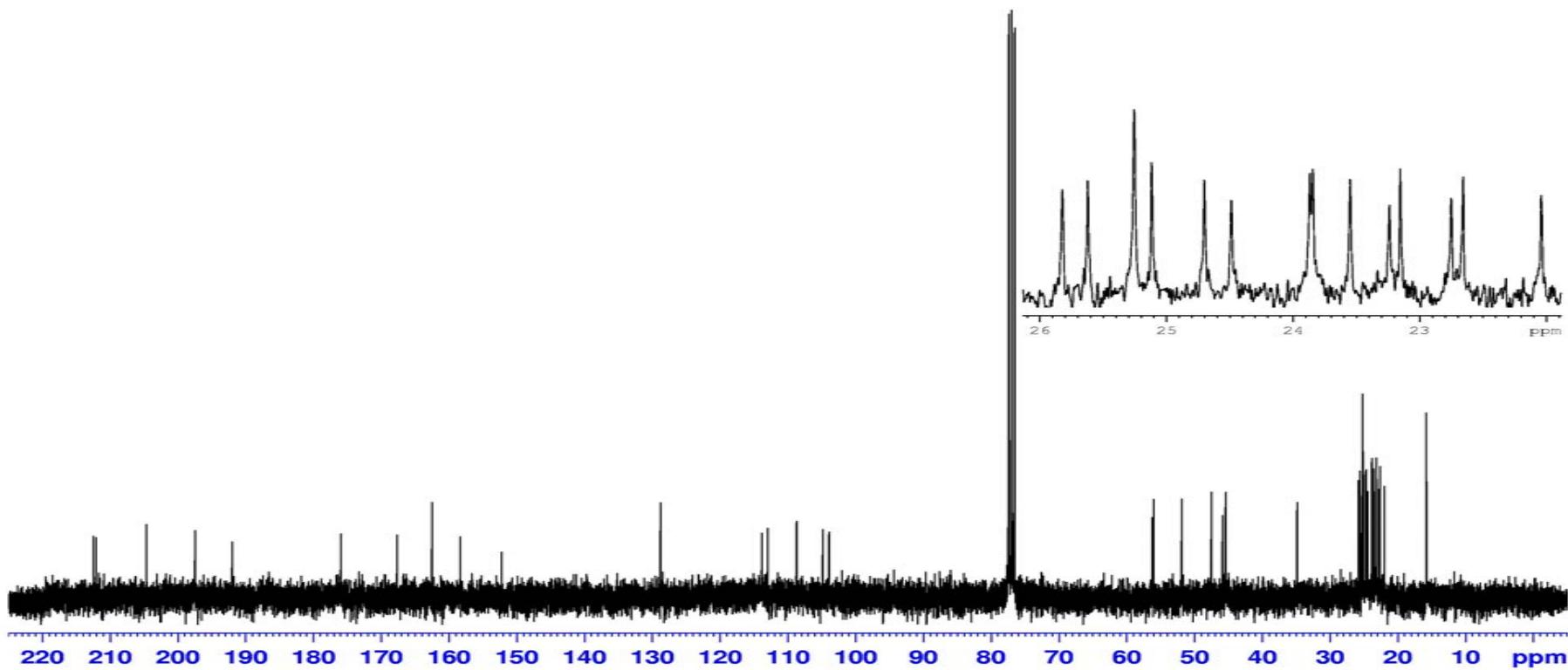


Fig. S3 HMQC (300 MHz, CDCl_3) spectrum of tomentosone A (1)

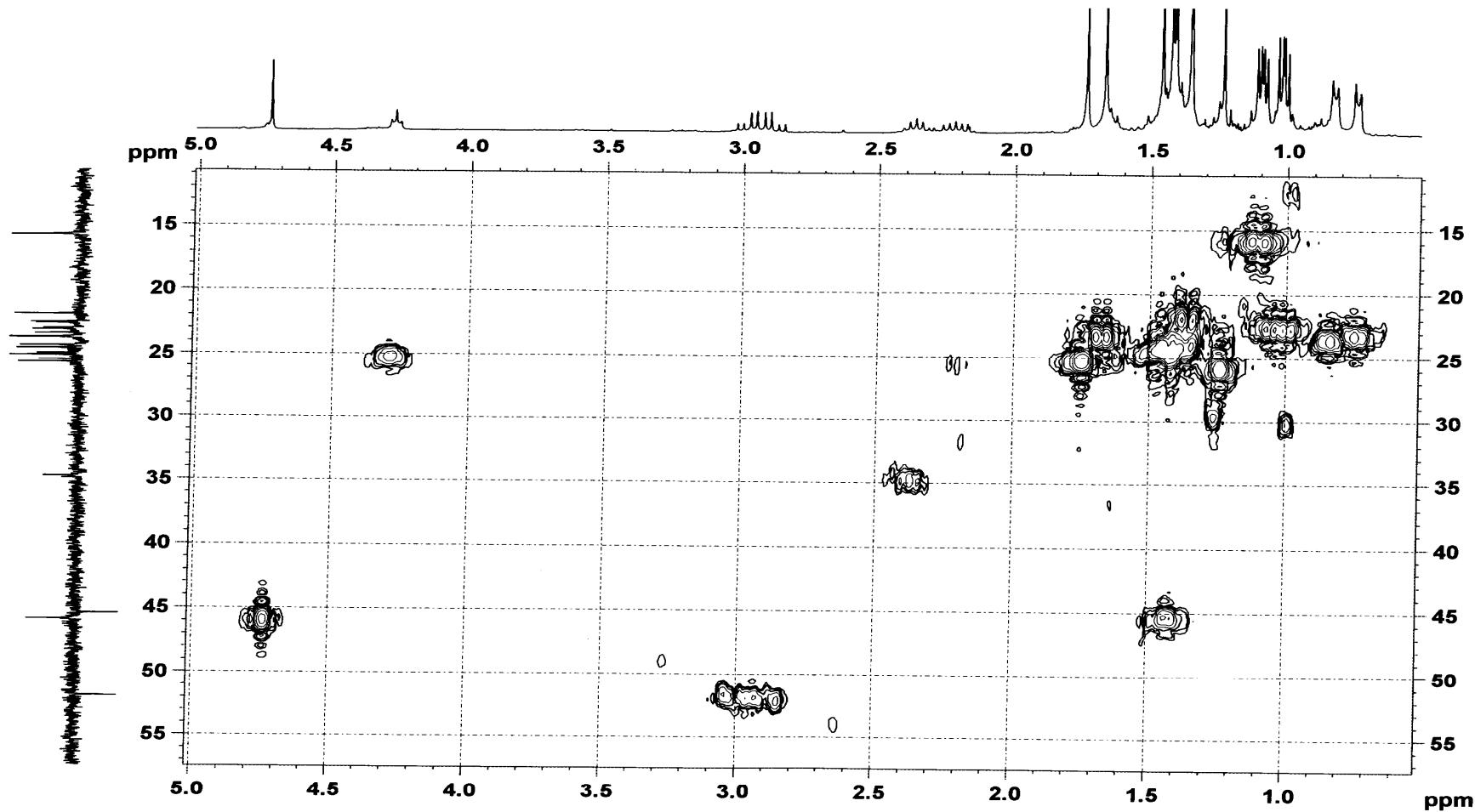


Fig. S4 COSY (300 MHz, CDCl_3) spectrum of tomentosone A (1)

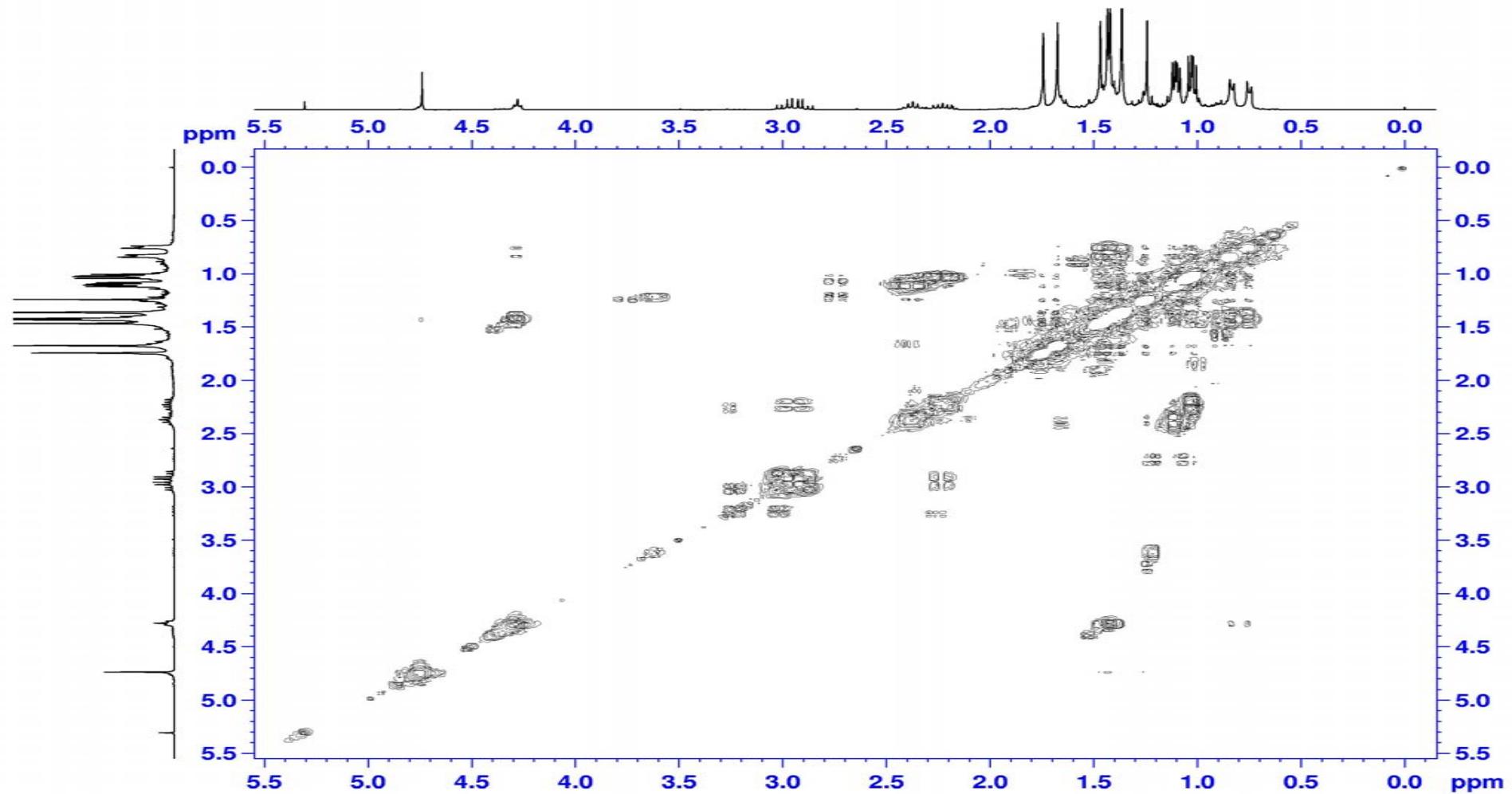


Fig. S5 HMBC (300 MHz, CDCl_3) spectrum of tomentosone A (1)

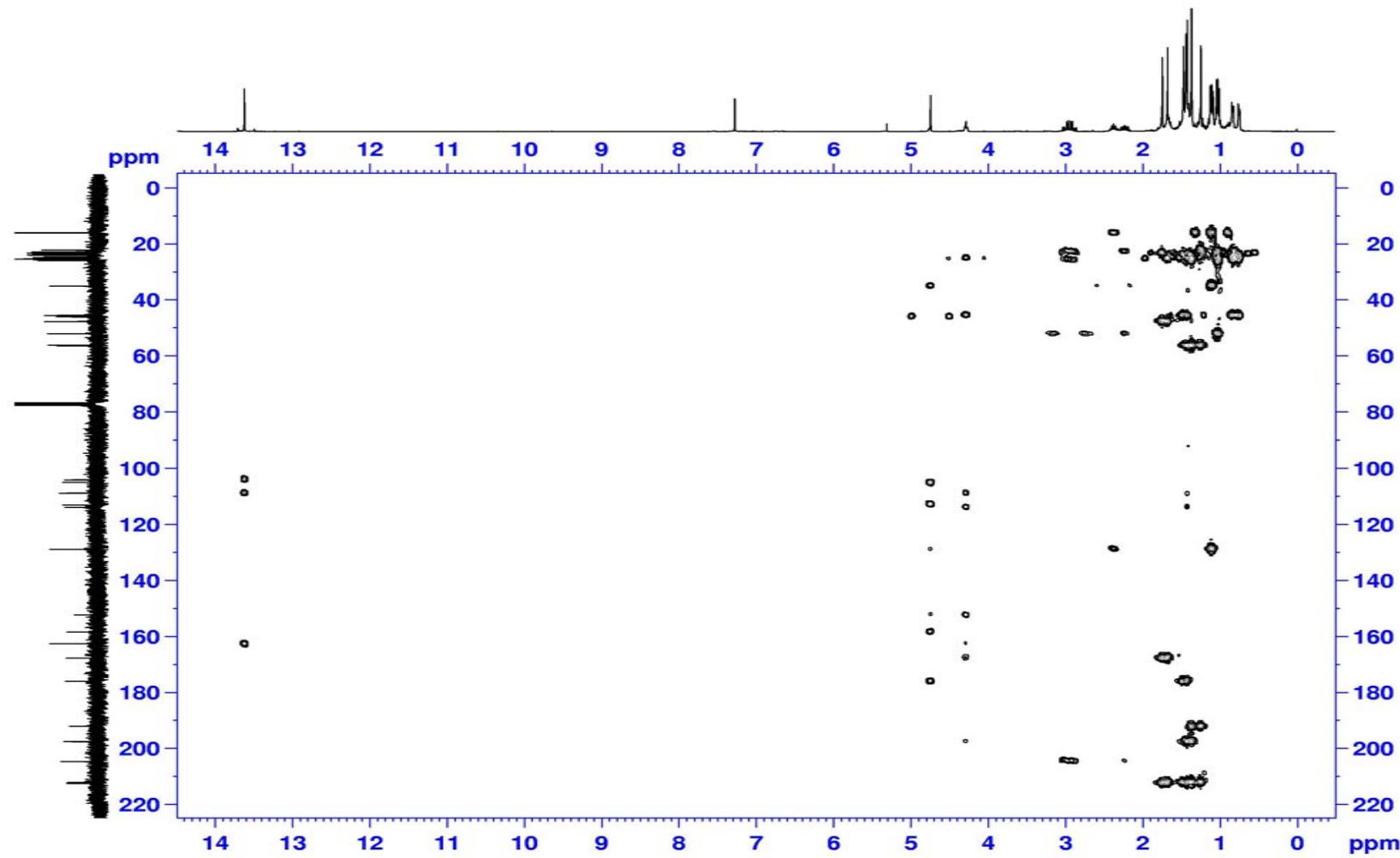


Fig. S6 ROESY (600 MHz, CDCl_3) spectrum of tomentosone A (1)

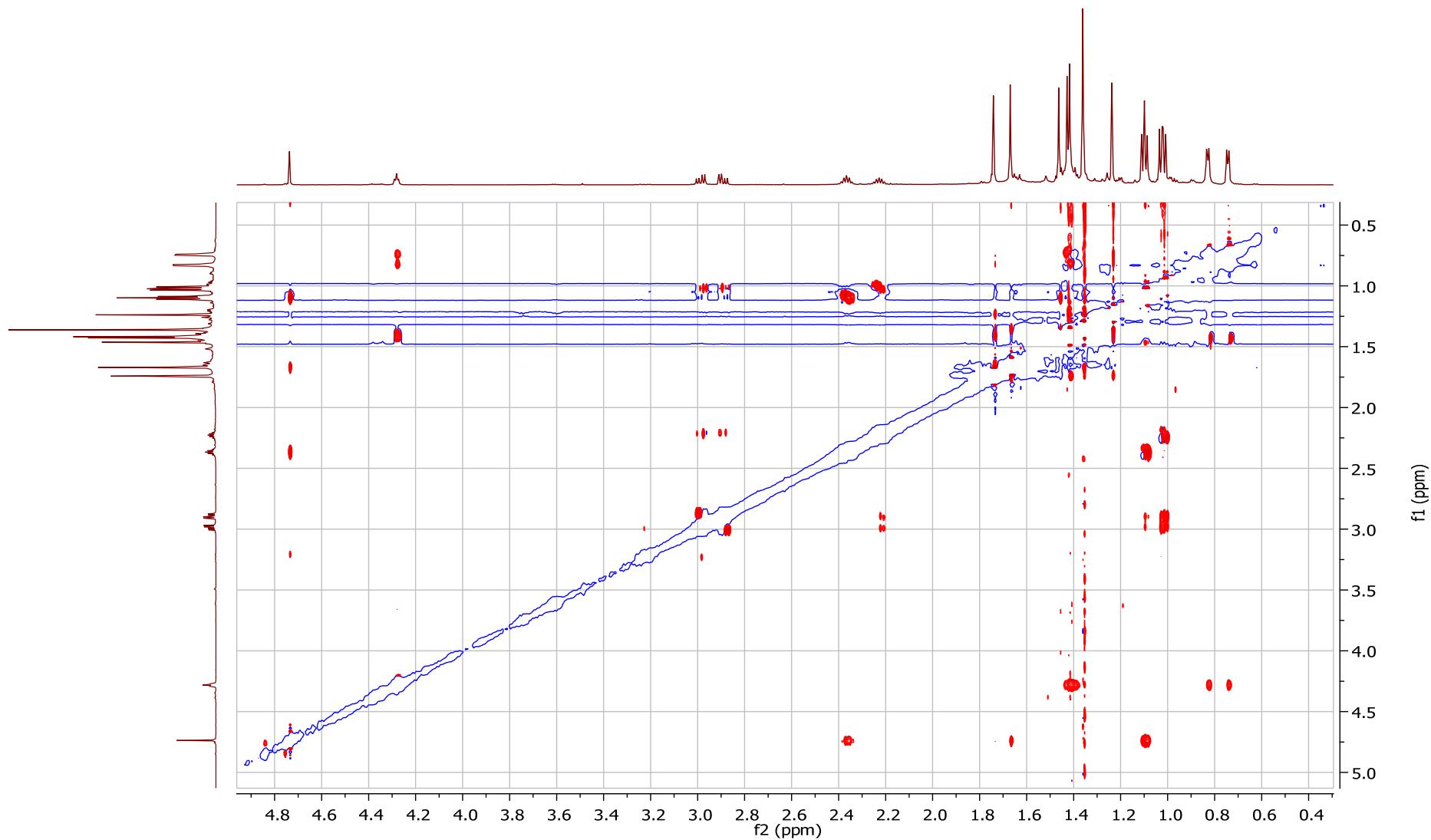


Fig. S7 ROESY (600 MHz, CDCl₃) spectrum of tomentosone A (1) (expansion)

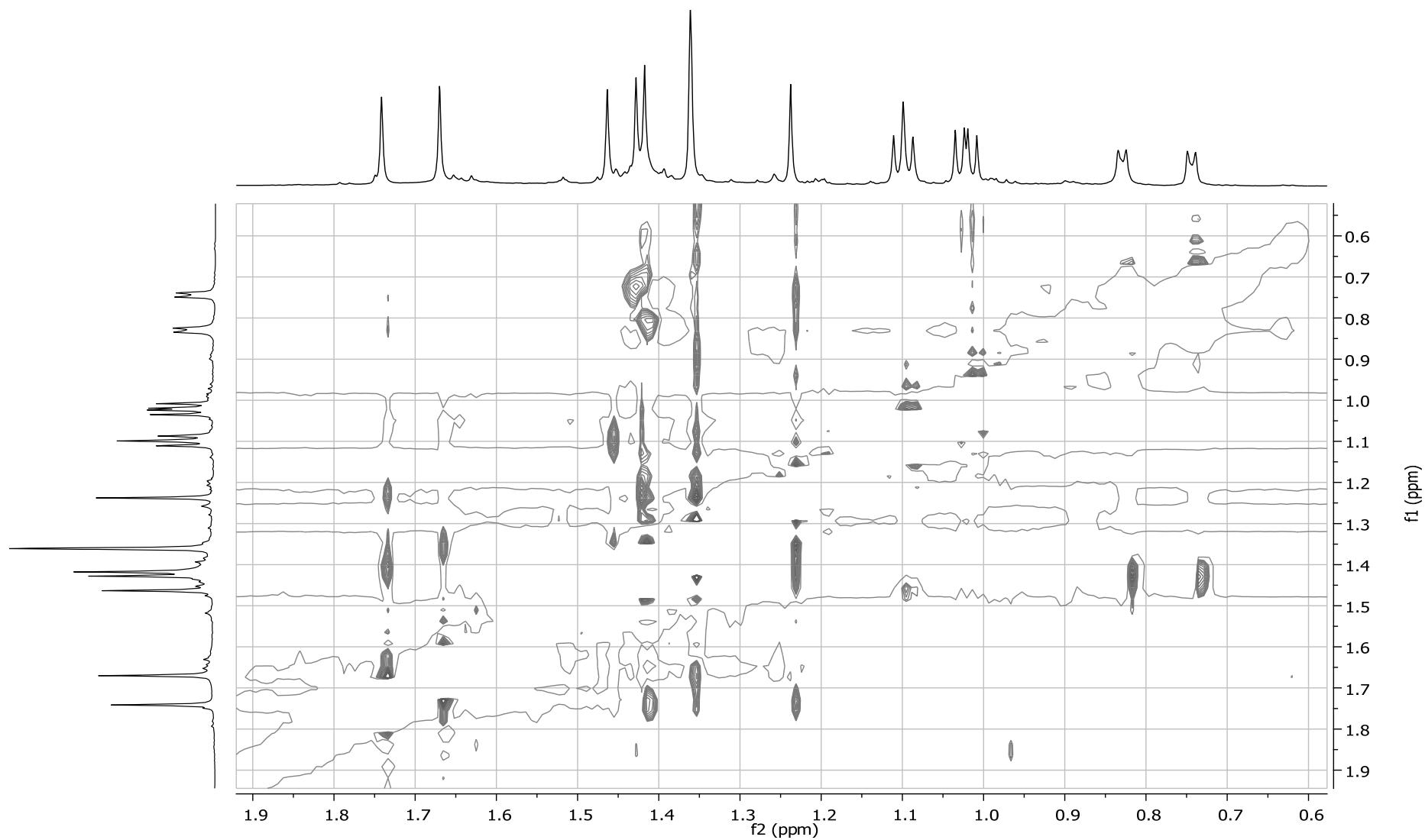


Fig. S8 EI-MS spectrum of tomentosone A (1)

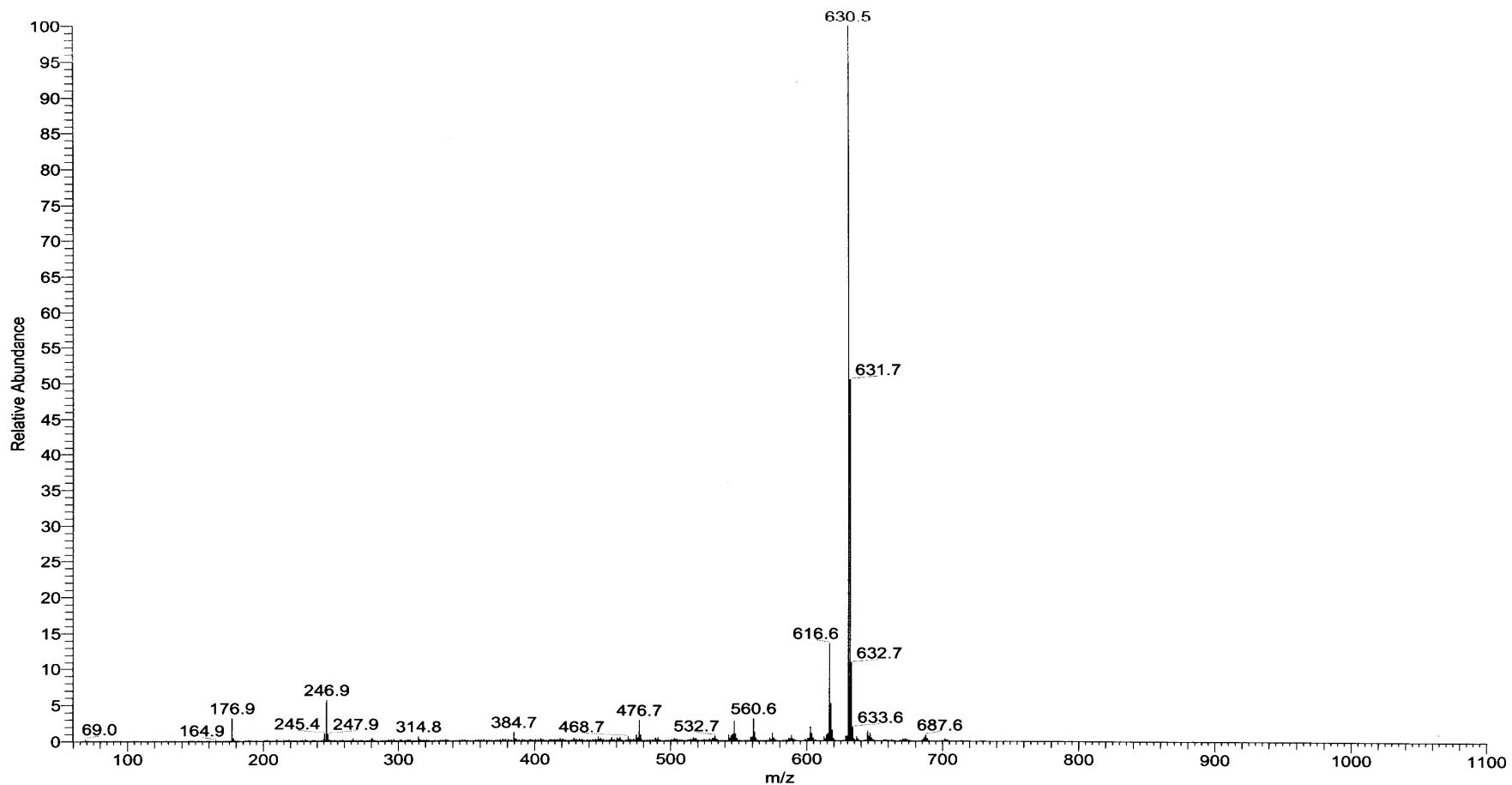


Fig. S9 ^1H NMR (300 MHz, CDCl_3) spectrum of tomentosone B (2)

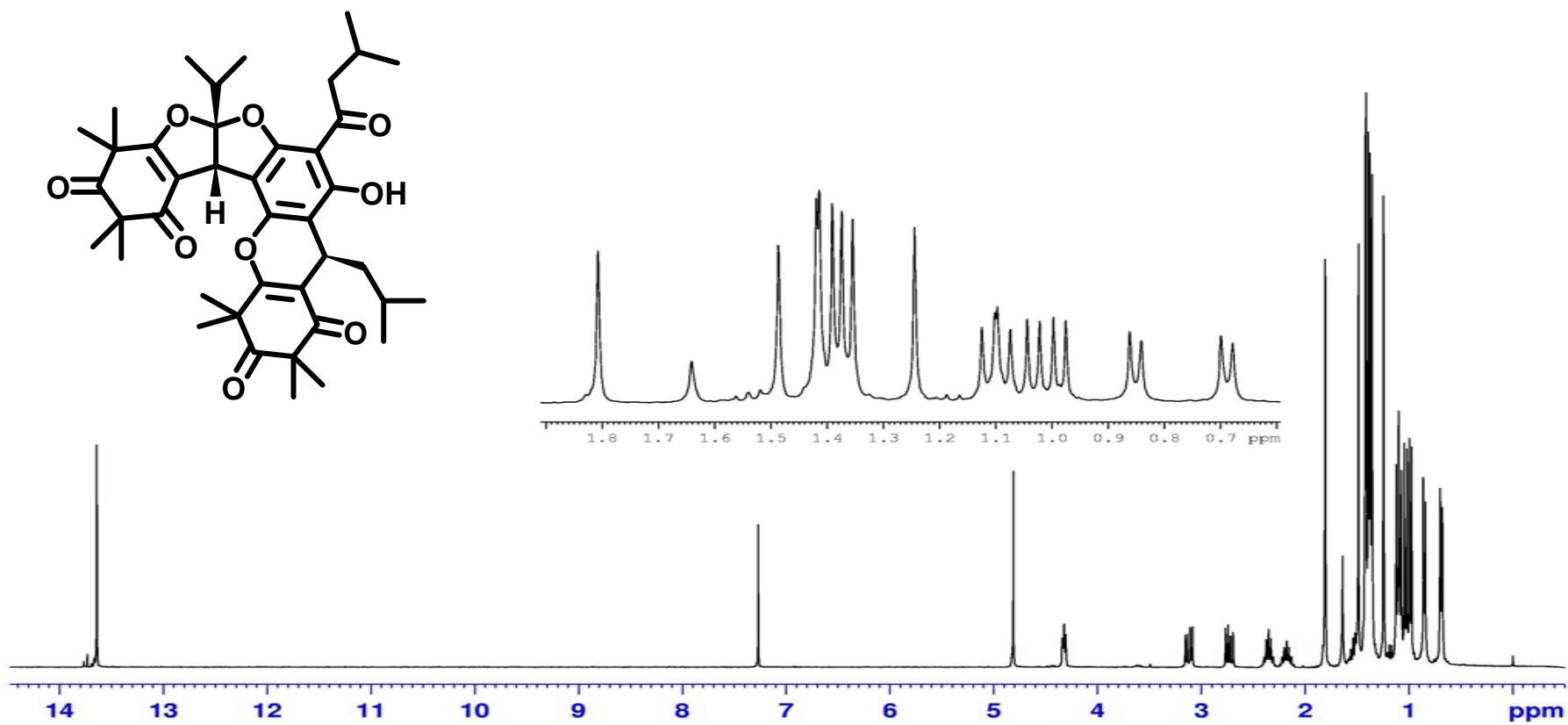


Fig. S10 ^{13}C NMR (75 MHz, CDCl_3) spectrum of tomentosone B (2)

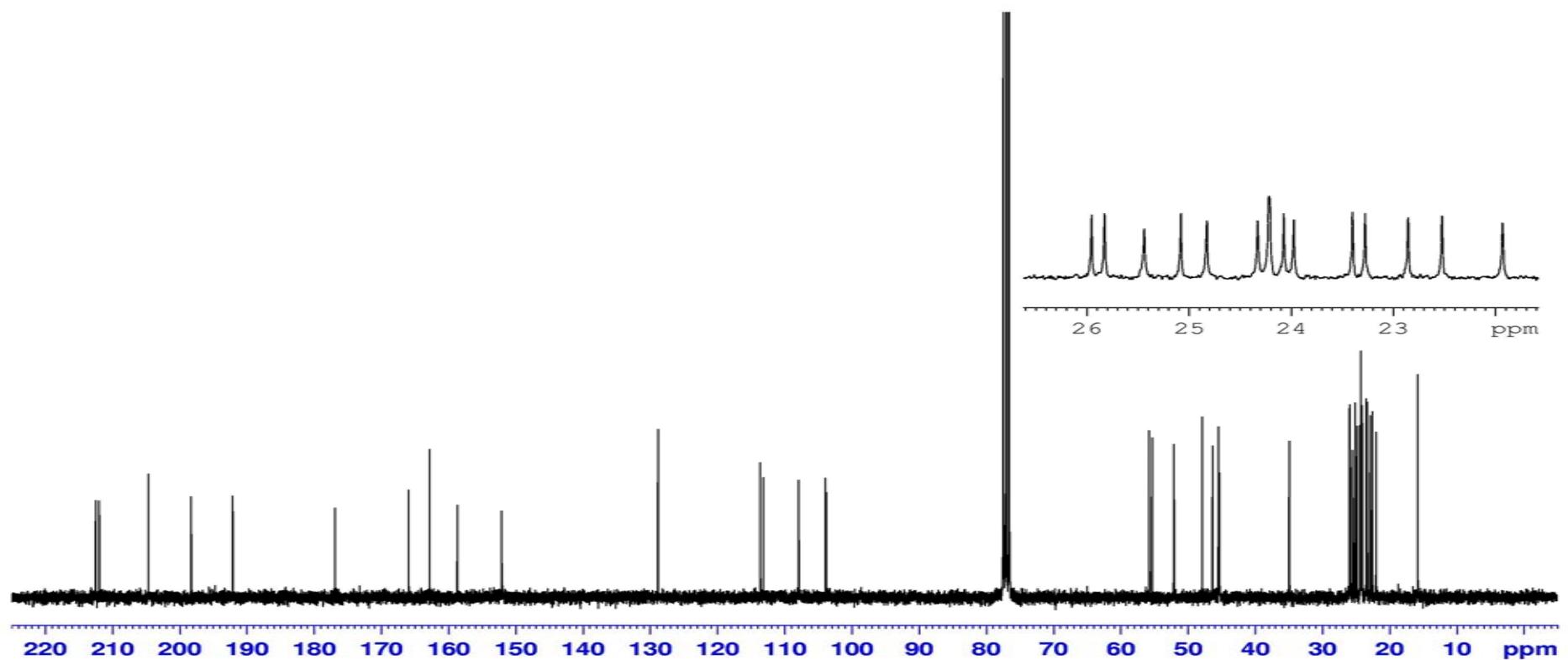


Fig. S11 HMQC (300 MHz, CDCl₃) spectrum of tomentosone B (2)

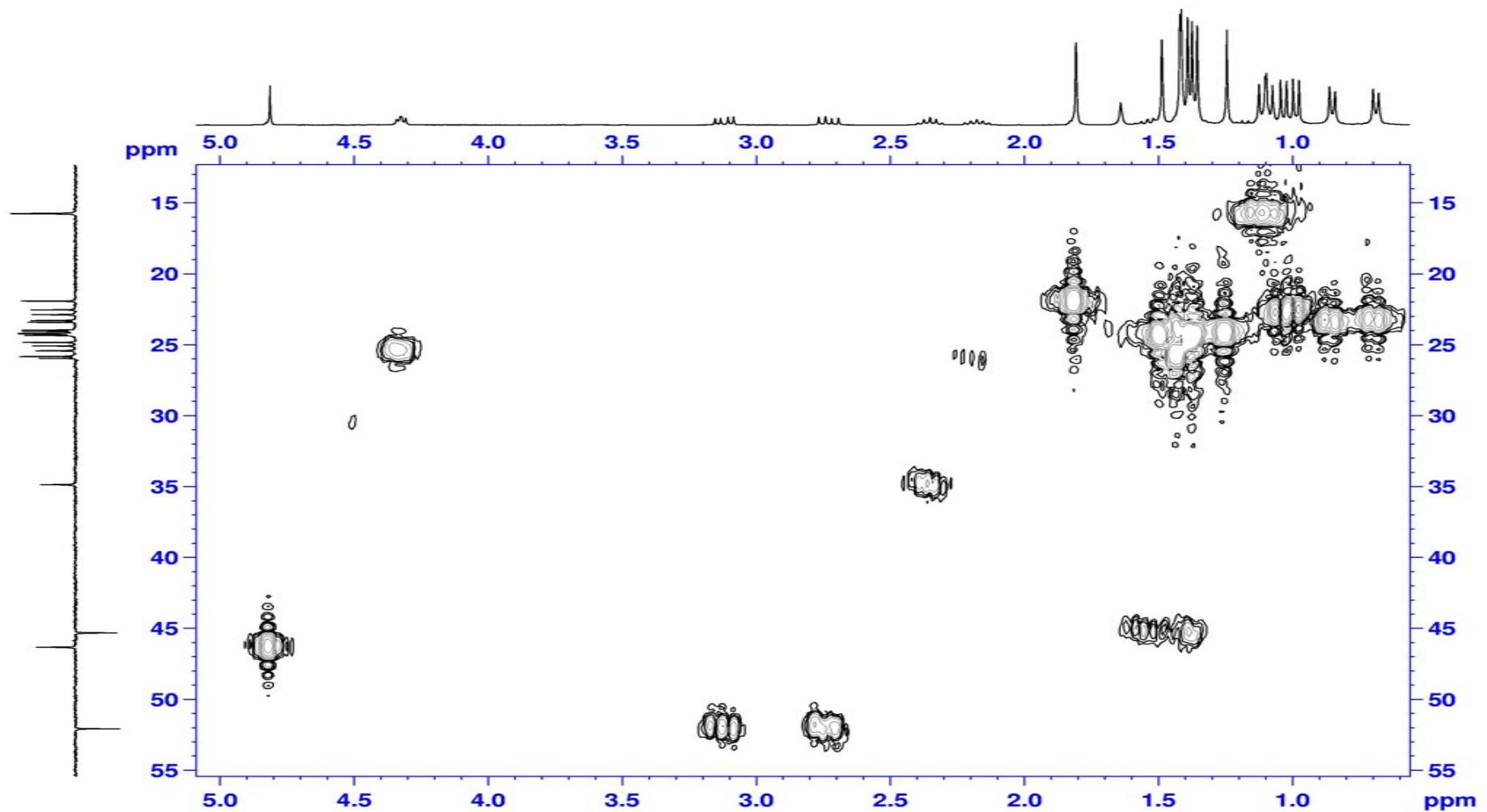


Fig. S12 COSY (300 MHz, CDCl_3) spectrum of tomentosone B (2)

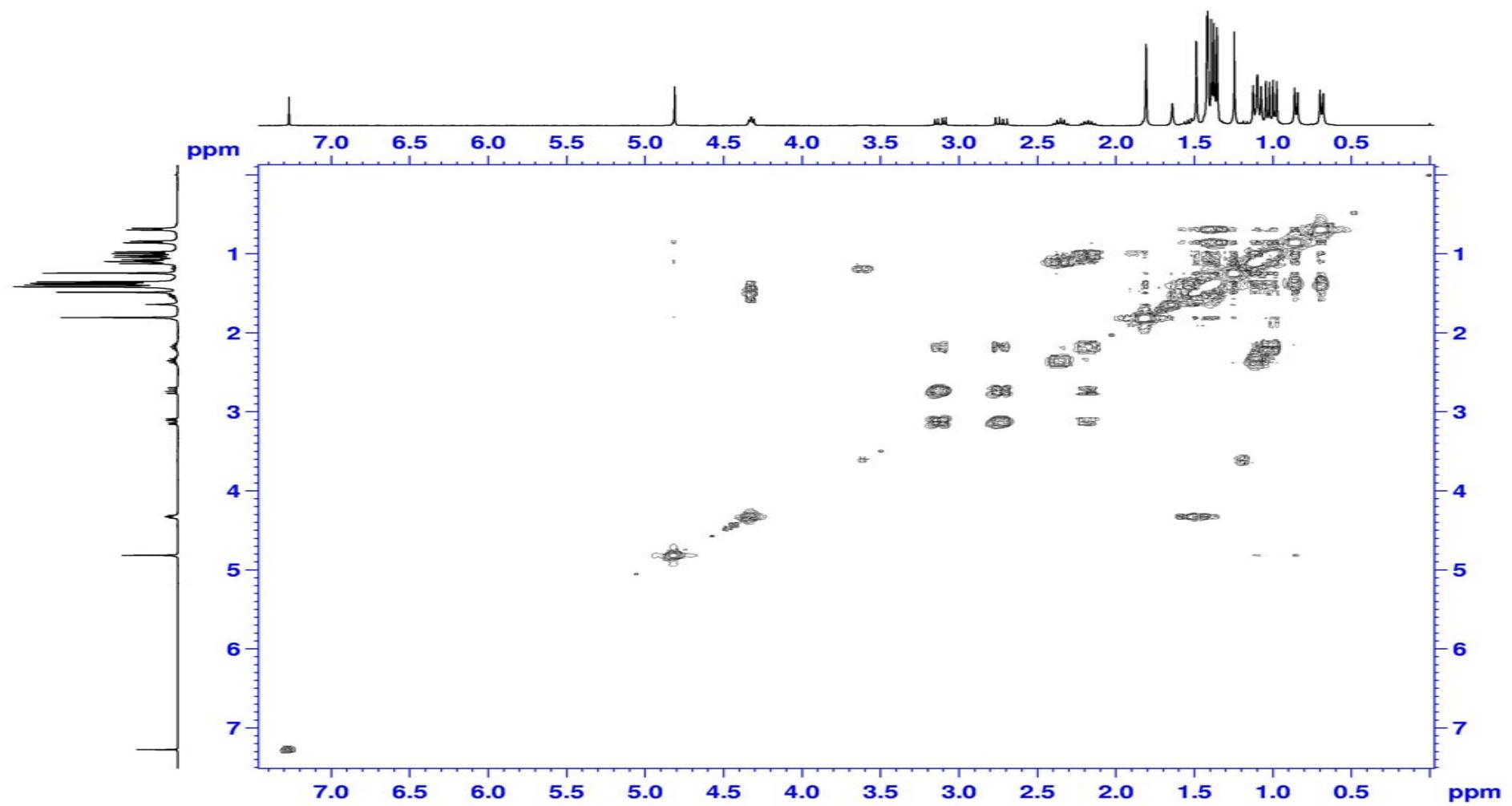


Fig. S13 HMBC (300 MHz, CDCl₃) spectrum of tomentosone B (2)

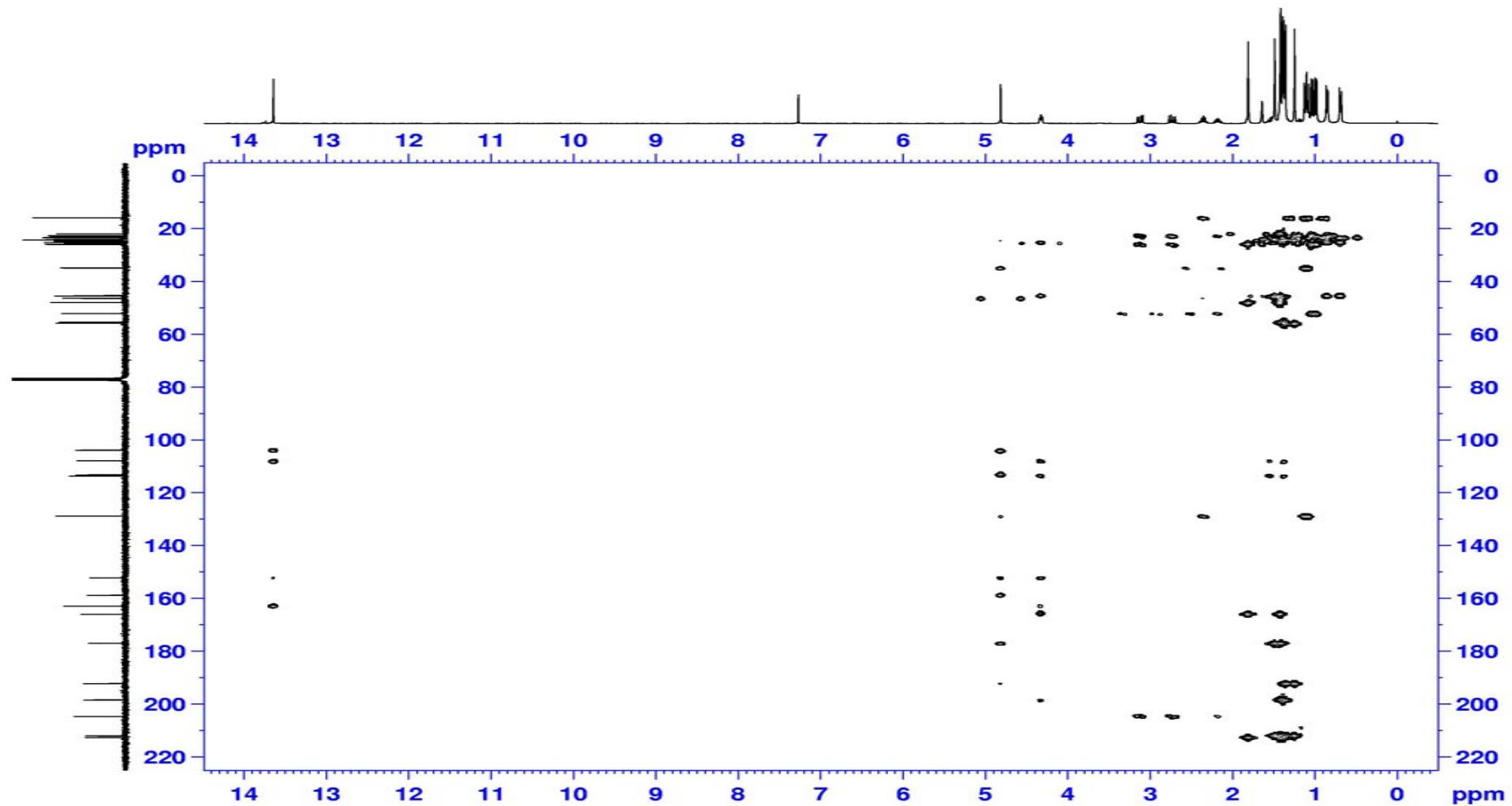


Fig. S14 ROESY (600 MHz, CDCl₃) spectrum of tomentosone B (2)

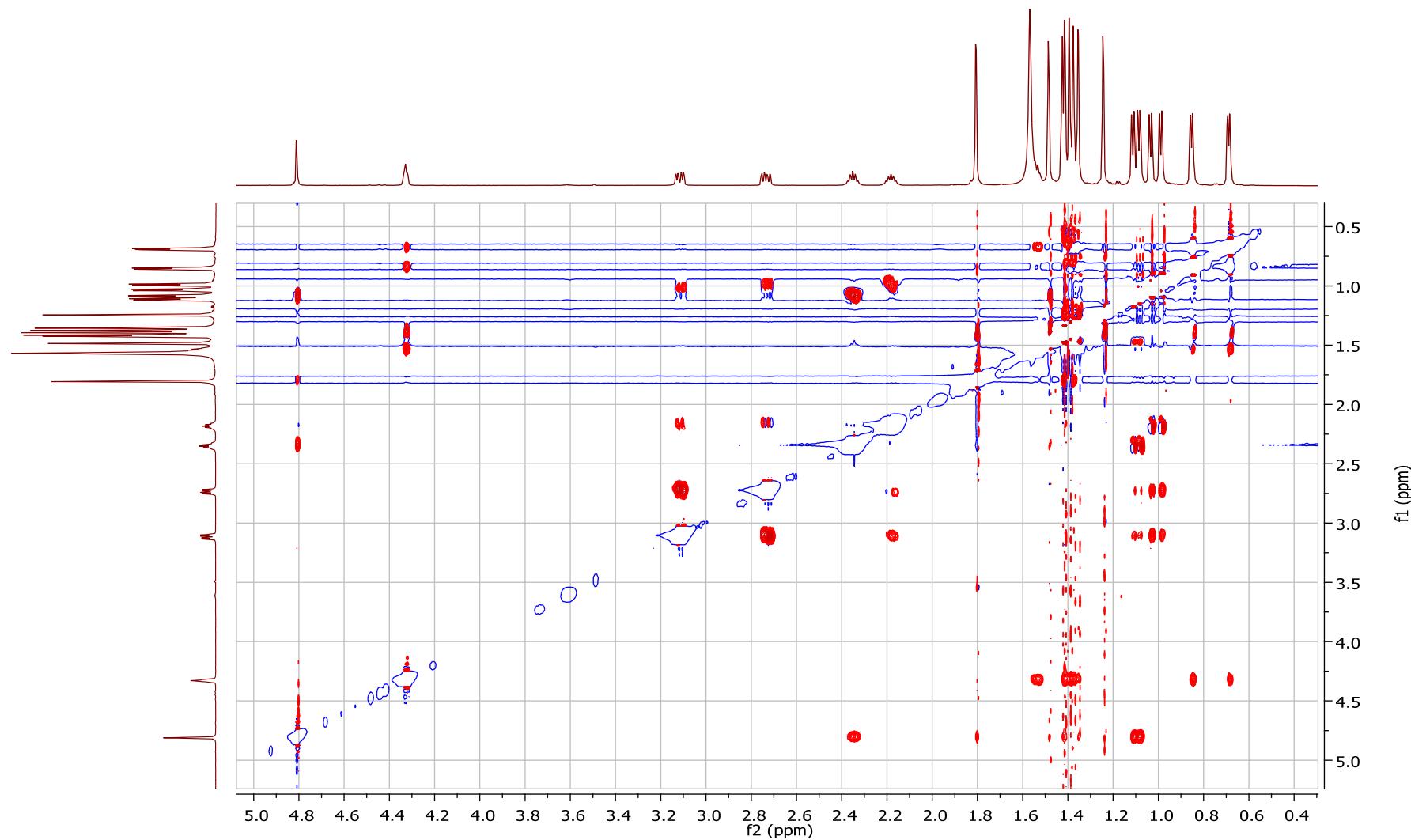


Fig. S15 ROESY (600 MHz, CDCl_3) spectrum of tomentosone B (2) (expansion)

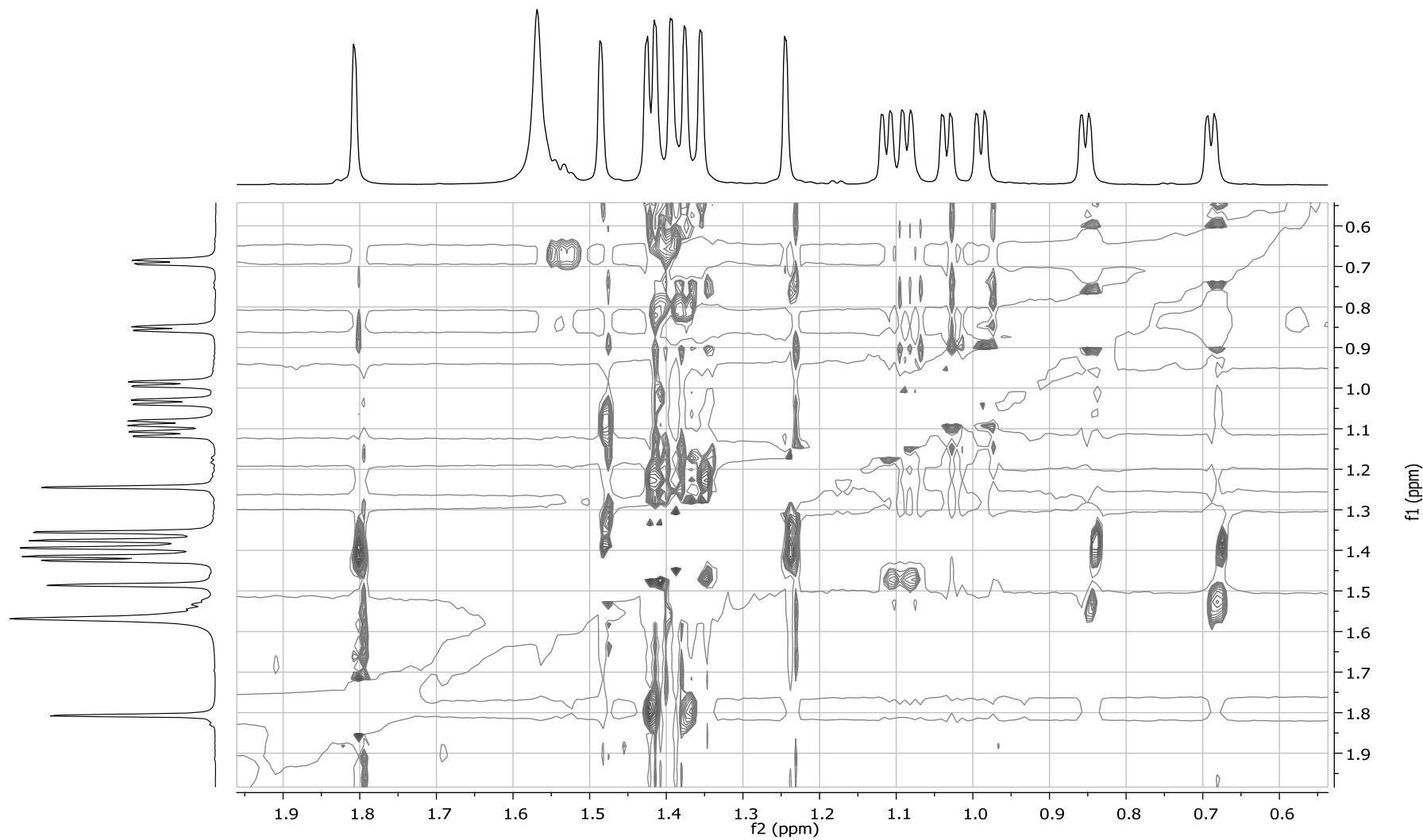


Fig. S16 EI-MS spectrum of tomentosone B (2)

