Molbank **2014**, M837

Supporting Information

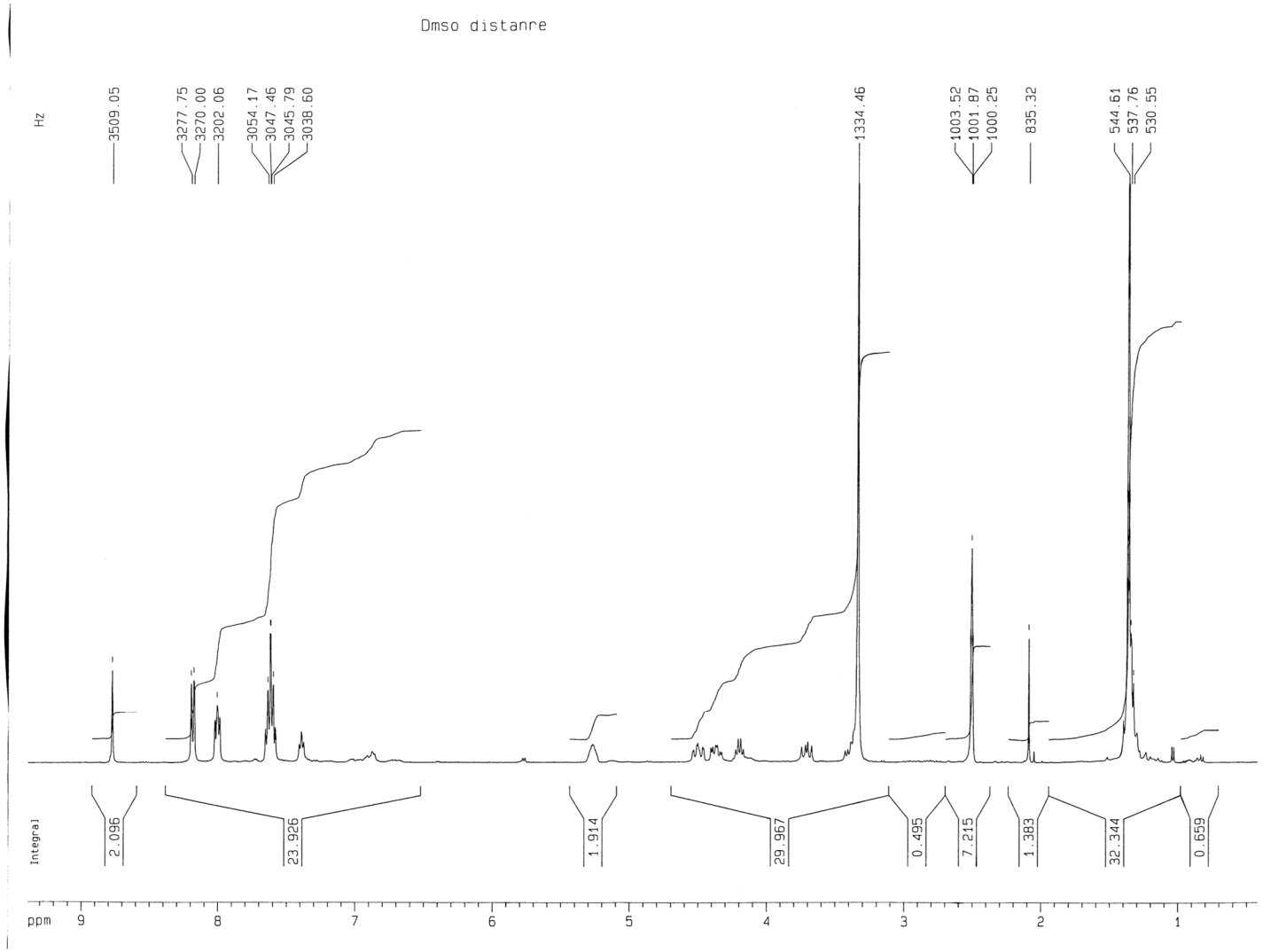
Content

1. Experimental procedures for compounds 3 and 4

*Synthesis of anthracenenitrile oxide **4*** — Commercially available anthracene aldehyde oxime 5 g (23 mmol) was dissolved in 250 mL of chloroform along with 2 mL of pyridine and the solution cooled down to 0 °C with ice bath. *N*-Chlorosuccinimide (NCS, 4 g, 30 mmol) was added portionwise and the reaction left under stirring for 2 h. The organic phase was then washed with water and dried over anhydrous Na_2SO_4. Upon evaporation of the solvent the solid anthracenenitrile oxide **4** is obtained in 60% yield and purified through mild recrystallization from diisopropyl ether [10].

*Synthesis of the dipolarophile **3*** — Commercially available *N*-Boc protected (*S*)-alanine **1** (1 g, 11.2 mmol) were dissolved in 70 mL of dichloromethane (DCM). Allylic alcohol (1.30 g, 22.4 mmol, 1.52 mL) and 0.14 g (1.12 mmol) were added to the solution that was cooled down to 0 °C with ice bath. *N,N′*-Dicyclohexylcarbodiimide (DCC, 3.47 g, 16.8 mmol) was added and the mixture left under stirring overnight at room temperature. The white solid ester **3** was isolated through column chromatography and obtained in 75% yield [9].

2. ^{1}H-NMR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1003.52
1001.87
1000.25
835.32
544.61
537.76
530.55
Integral
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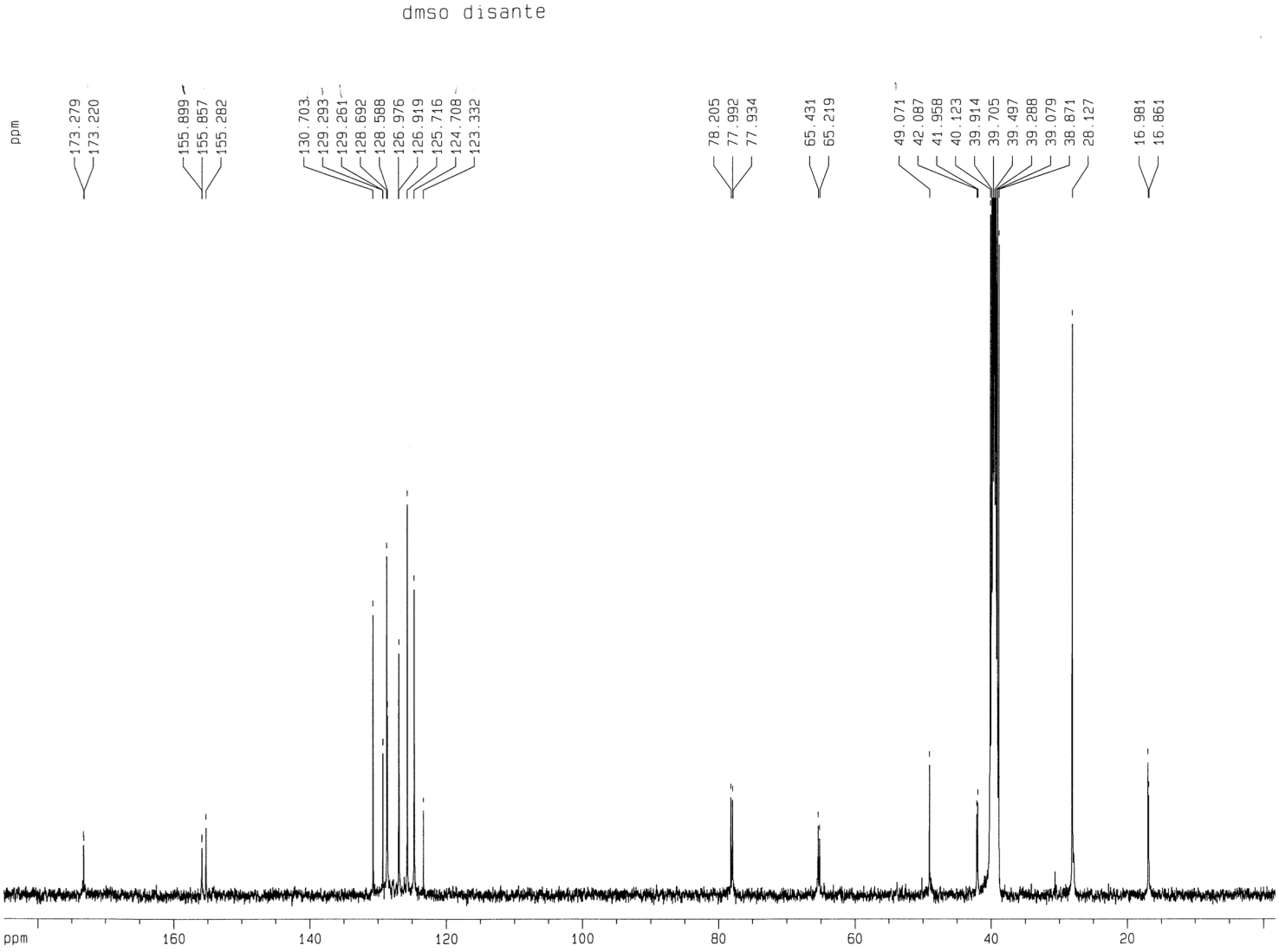
1.914
29.967
0.495
7.215
1.383
32.344
0.659
ppm
9
8
7
6
5
4
3
2
1

3. ^{13}C-NMR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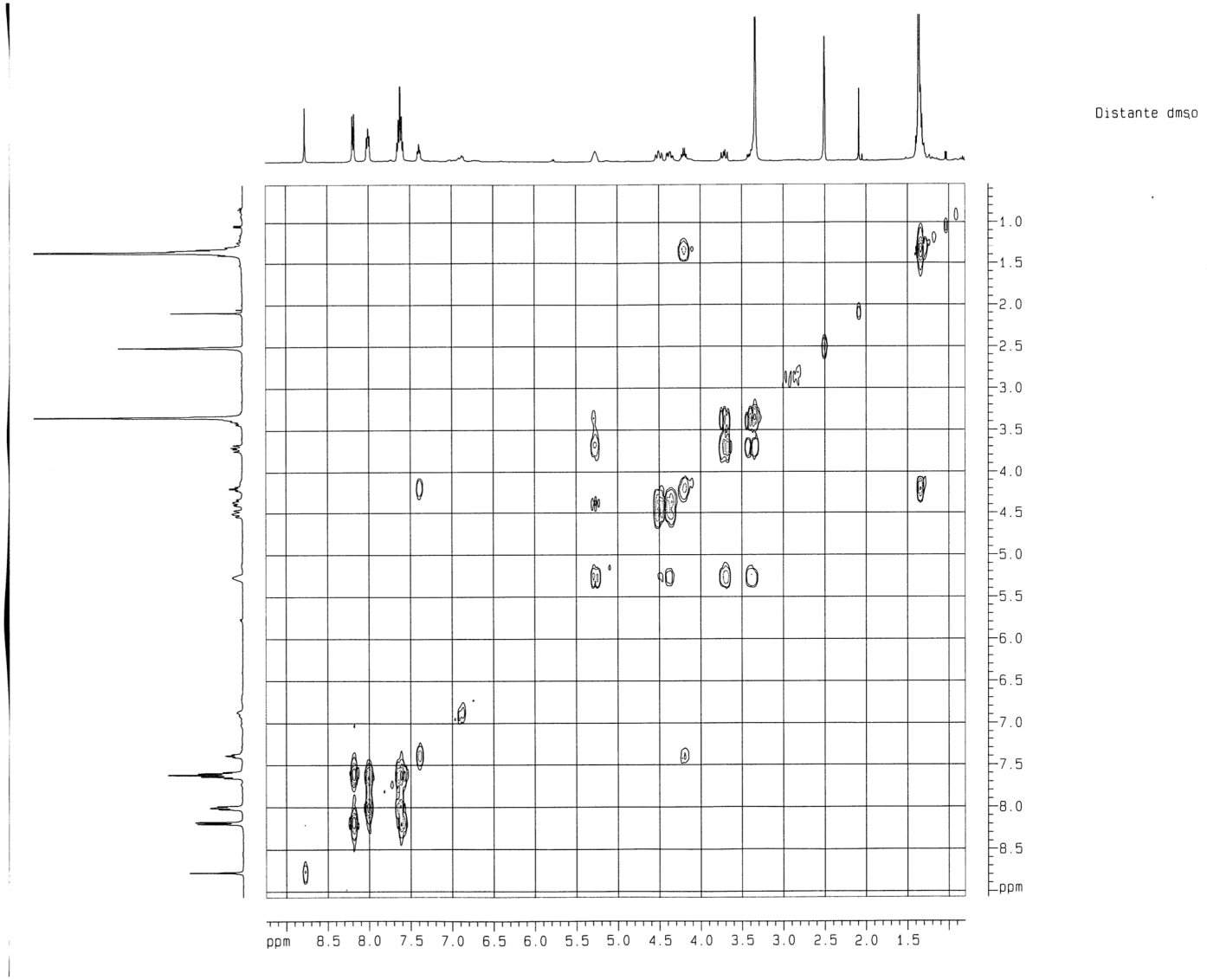
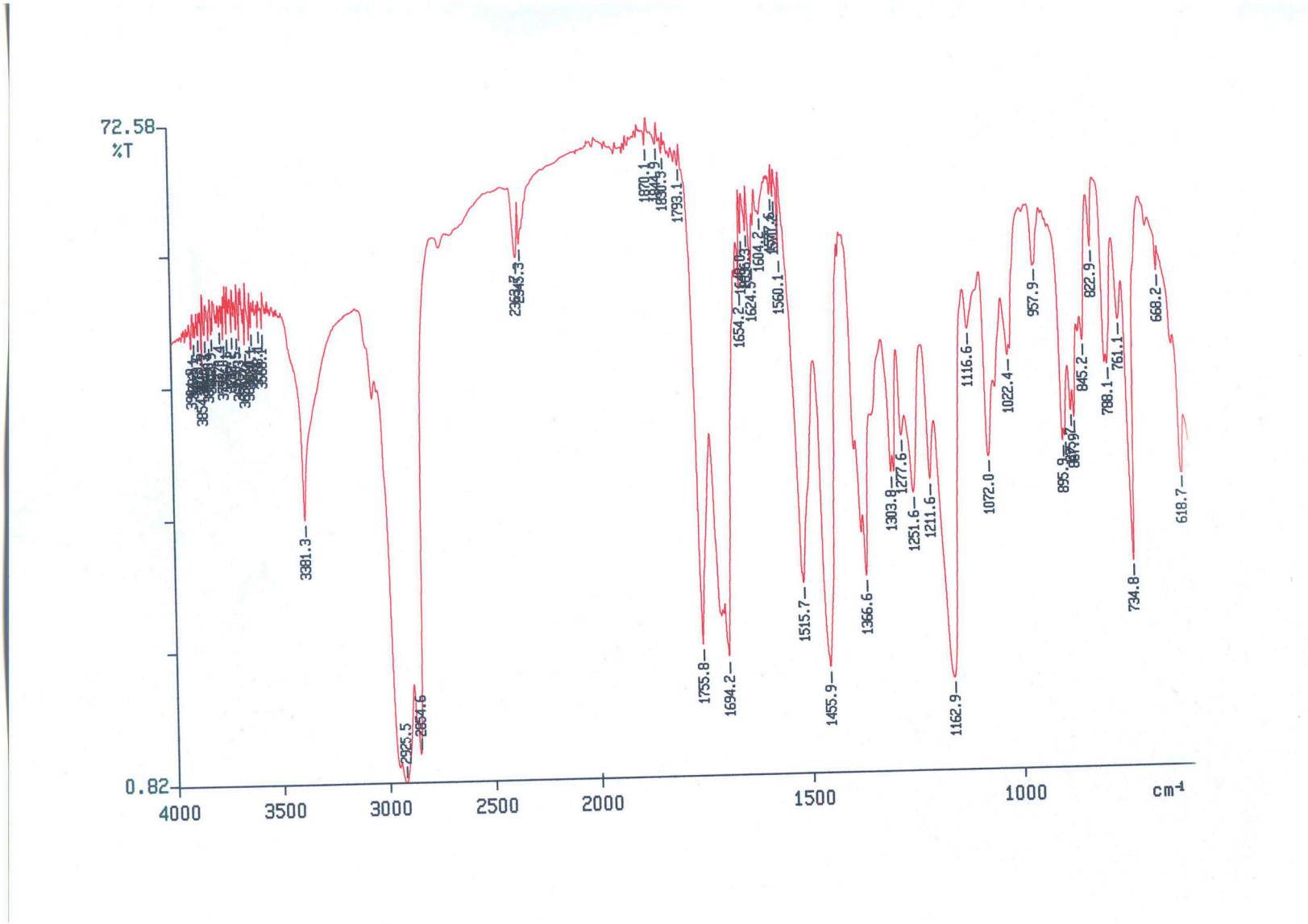
4. COSY spectrum



5. FT-IR spectrum



6. Fluorescence spectrum