

APPENDIX

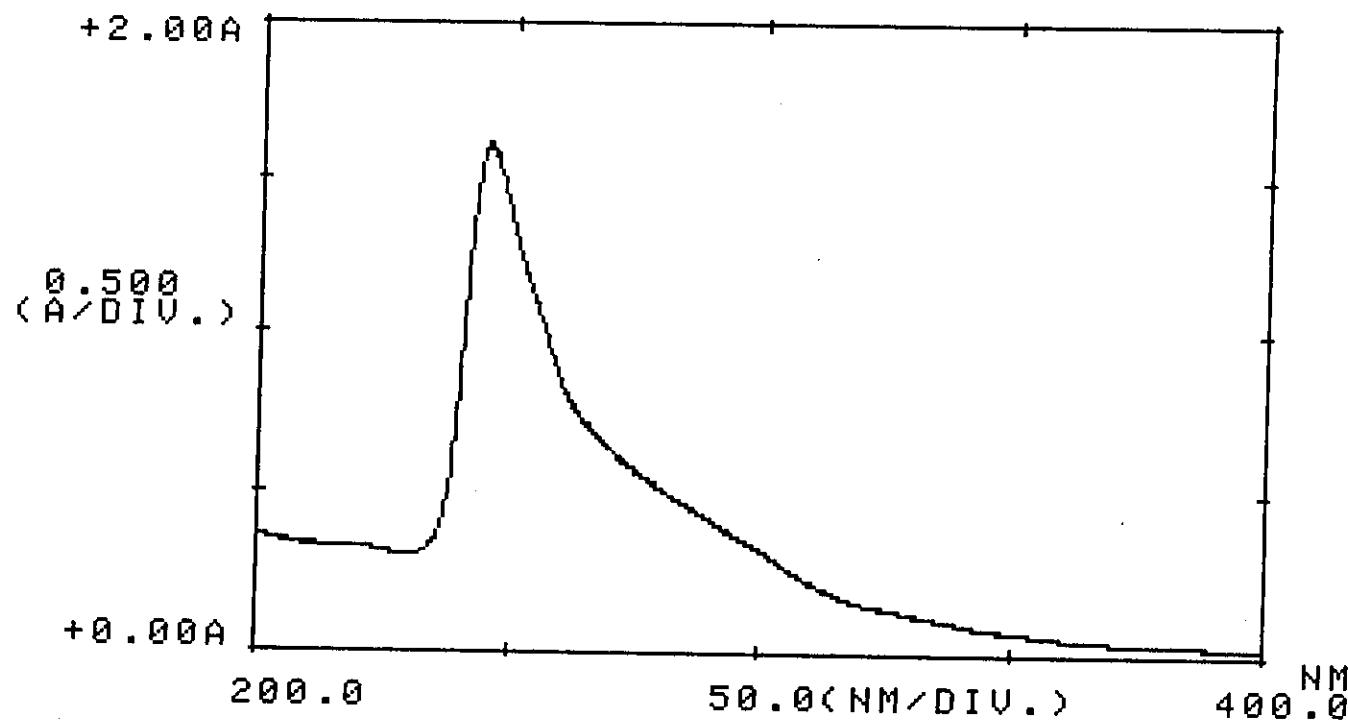


Figure 7 UV (CHCl_3) spectrum of compound SCO1

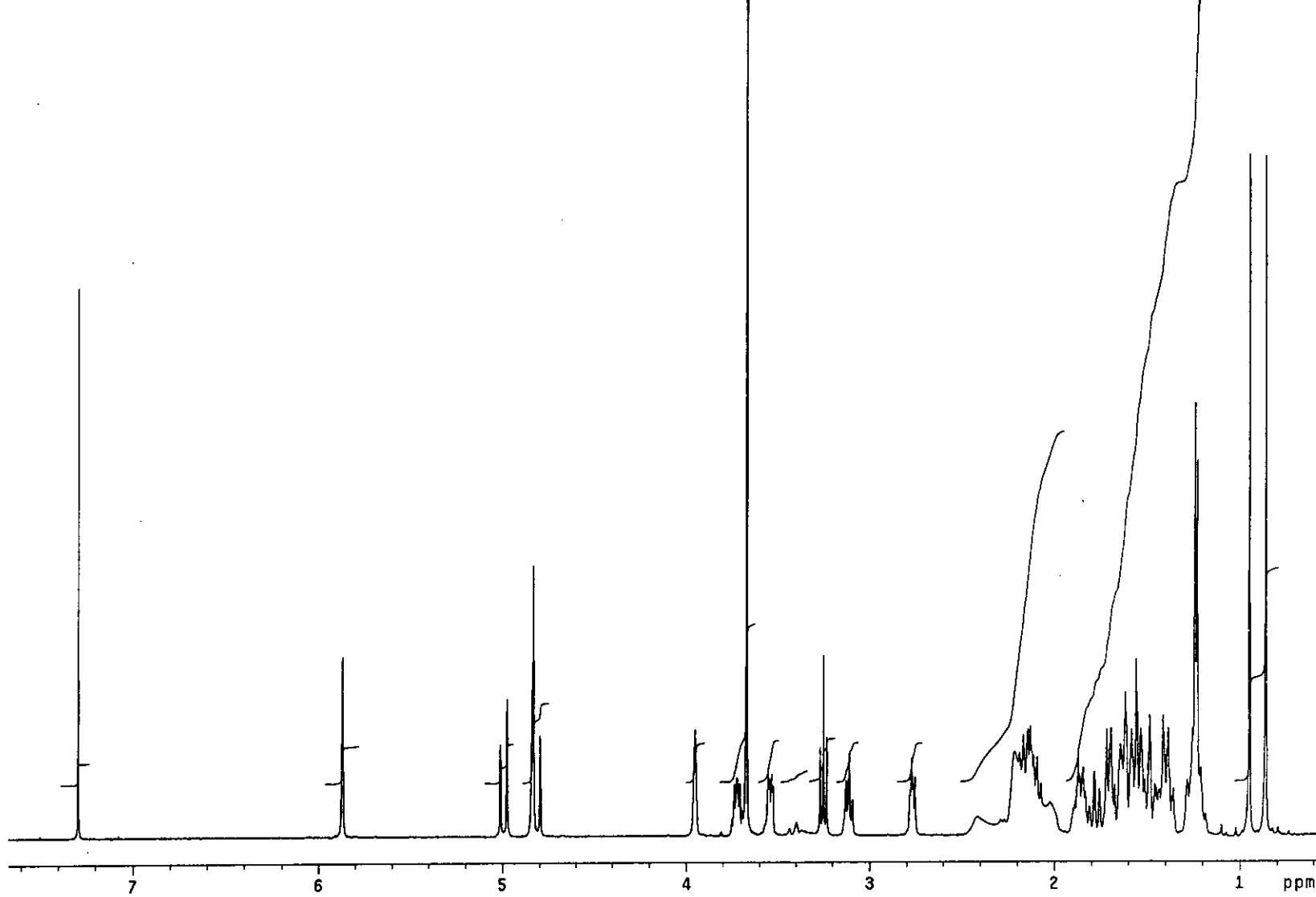


Figure 9 ^1H NMR (500 MHz, CDCl_3) spectrum of compound SCO1

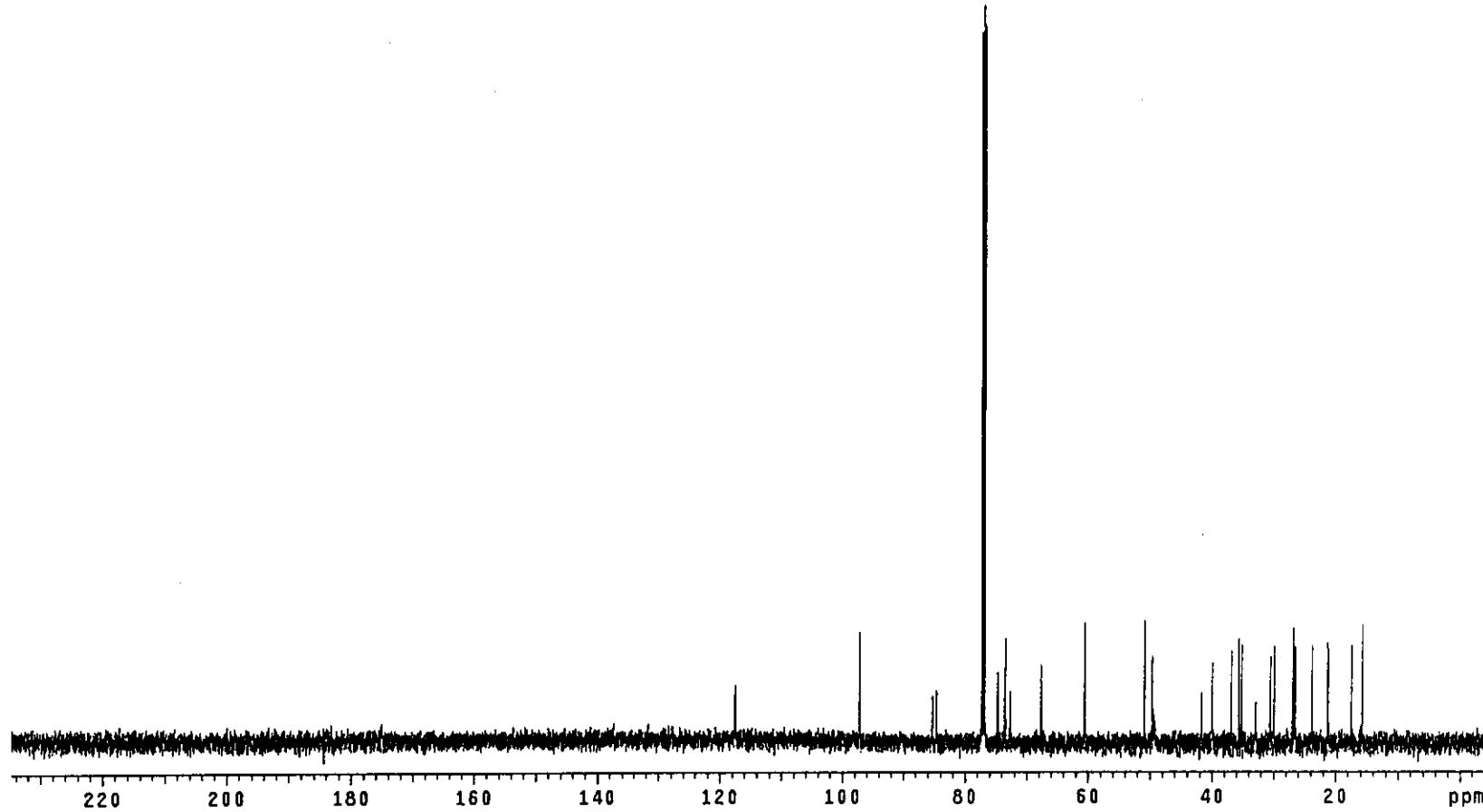


Figure 10 ^{13}C NMR (125 MHz, CDCl₃) spectrum of compound **SCO1**

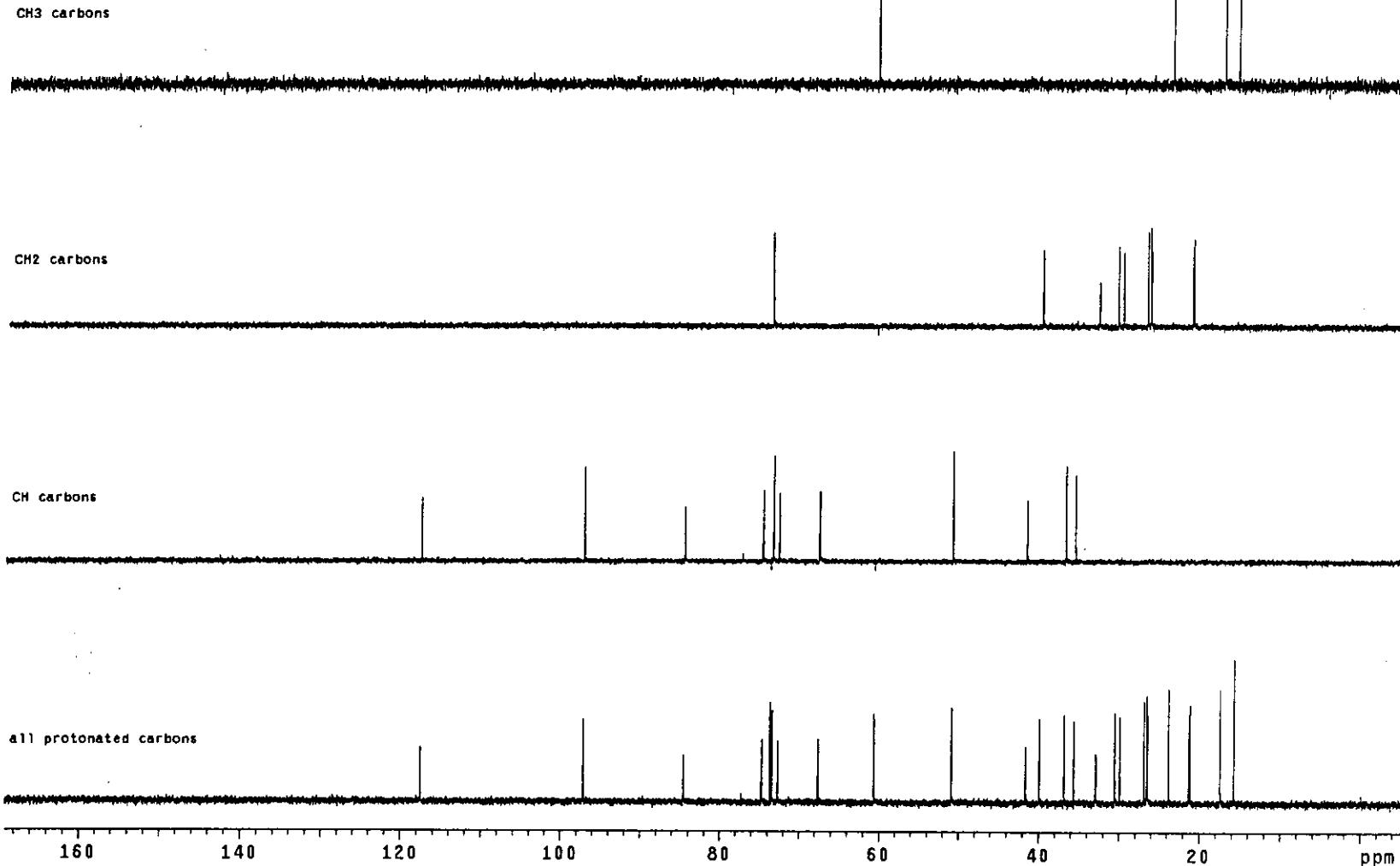


Figure 11 DEPT (CDCl_3) spectrum of compound SCO1

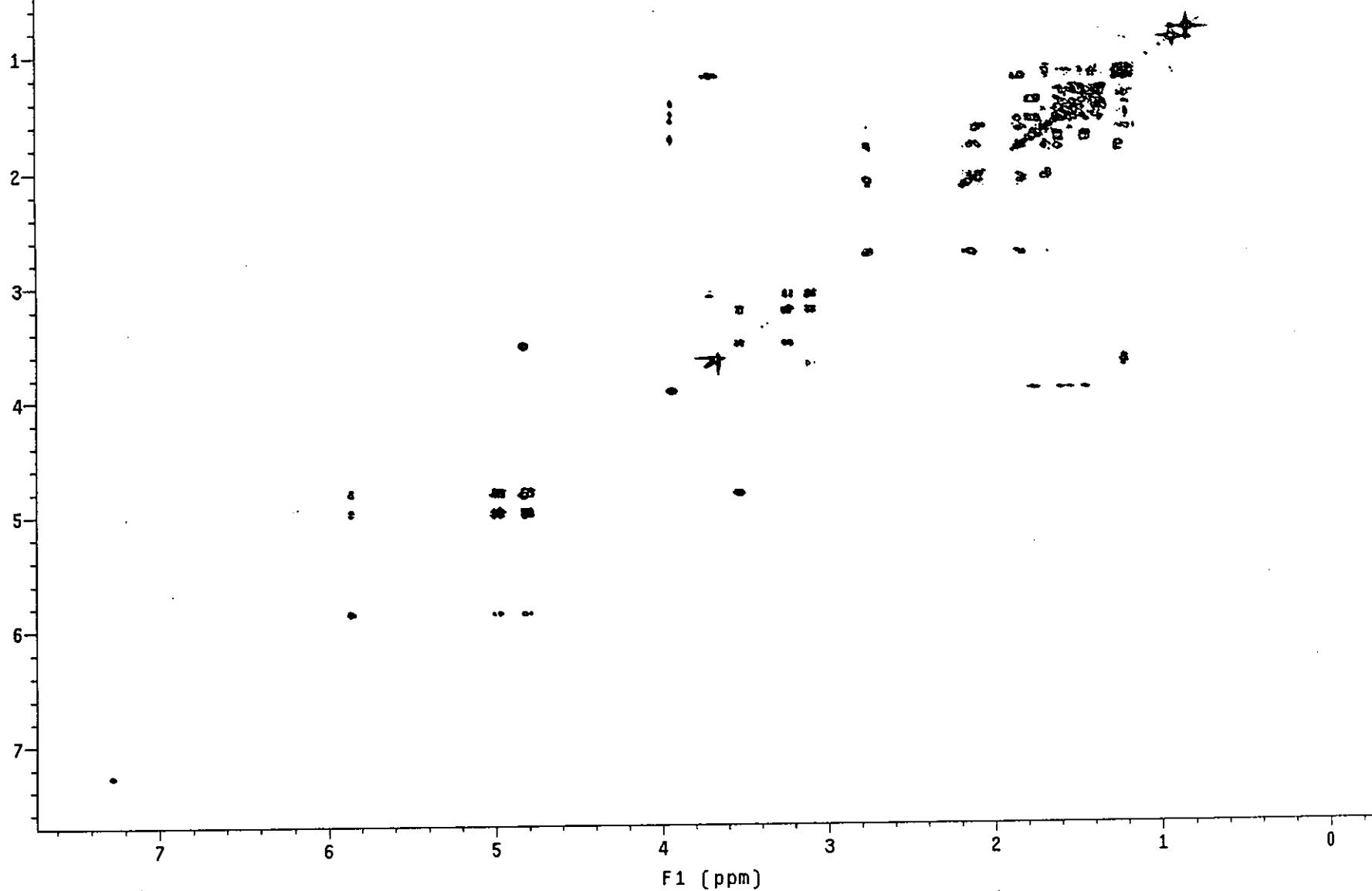


Figure 12 2D COSY spectrum of compound SCO1

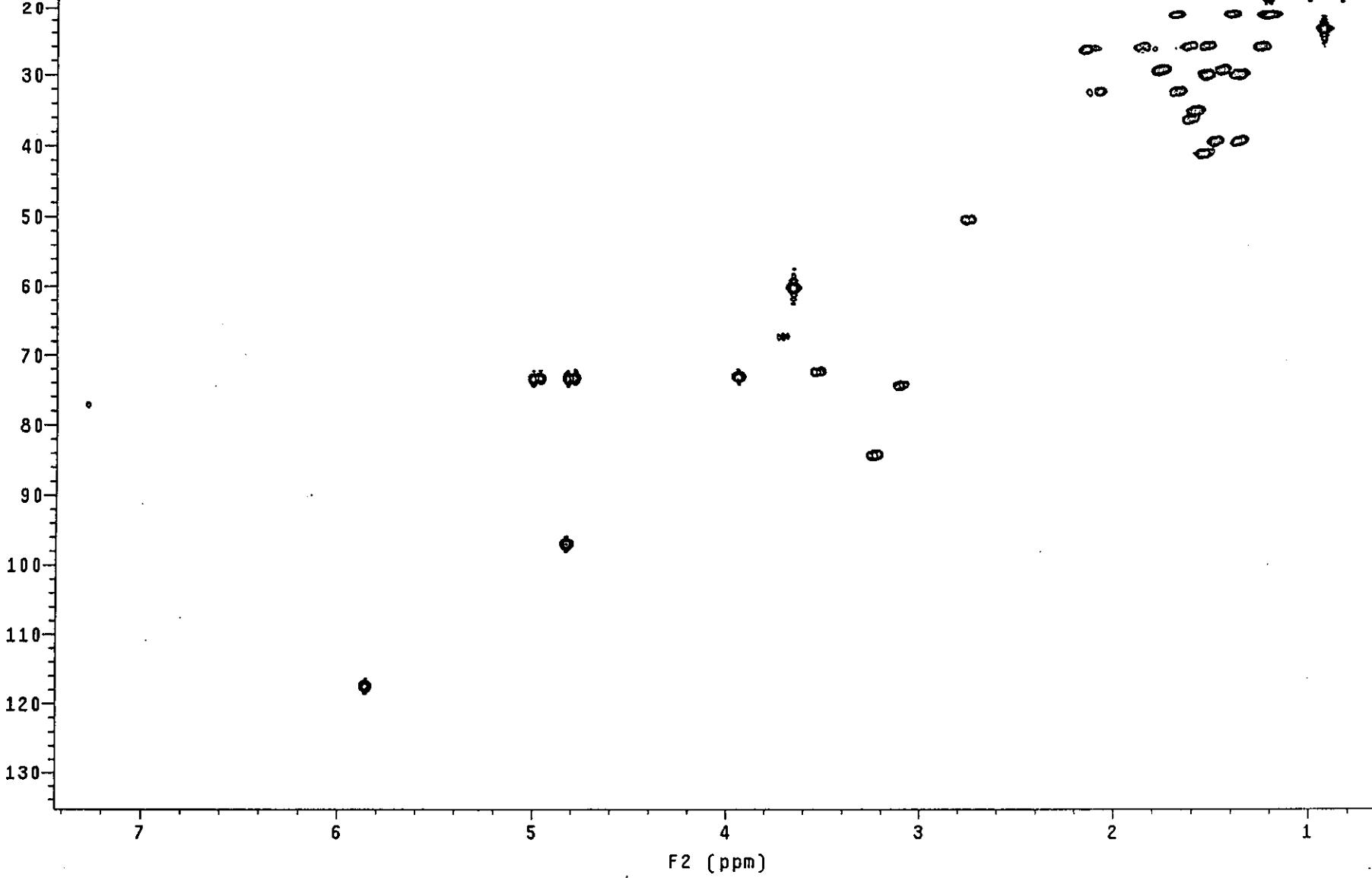


Figure 13 2D HMQC spectrum of compound SCO1

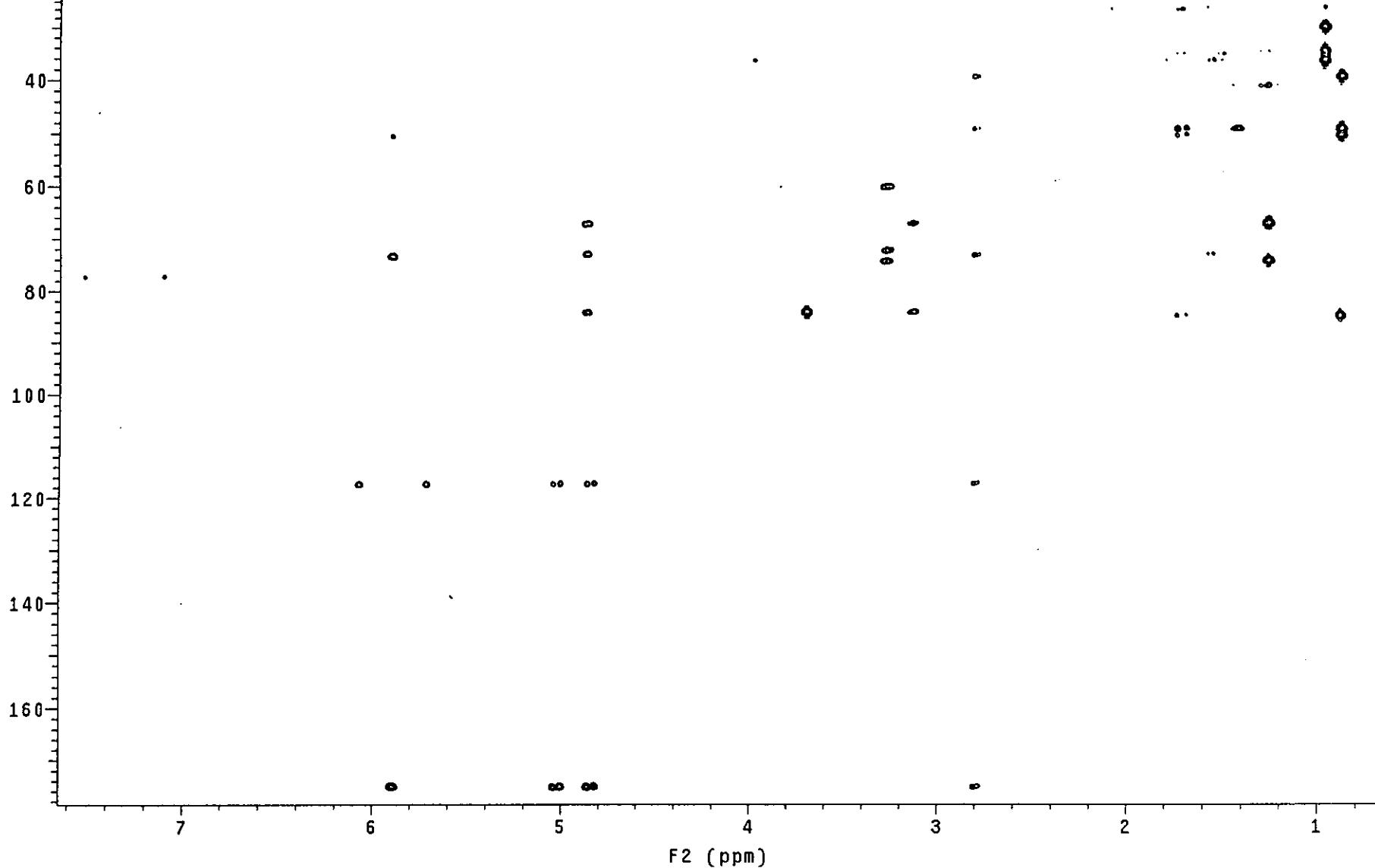


Figure 14 2D HMBC spectrum of compound SCO1

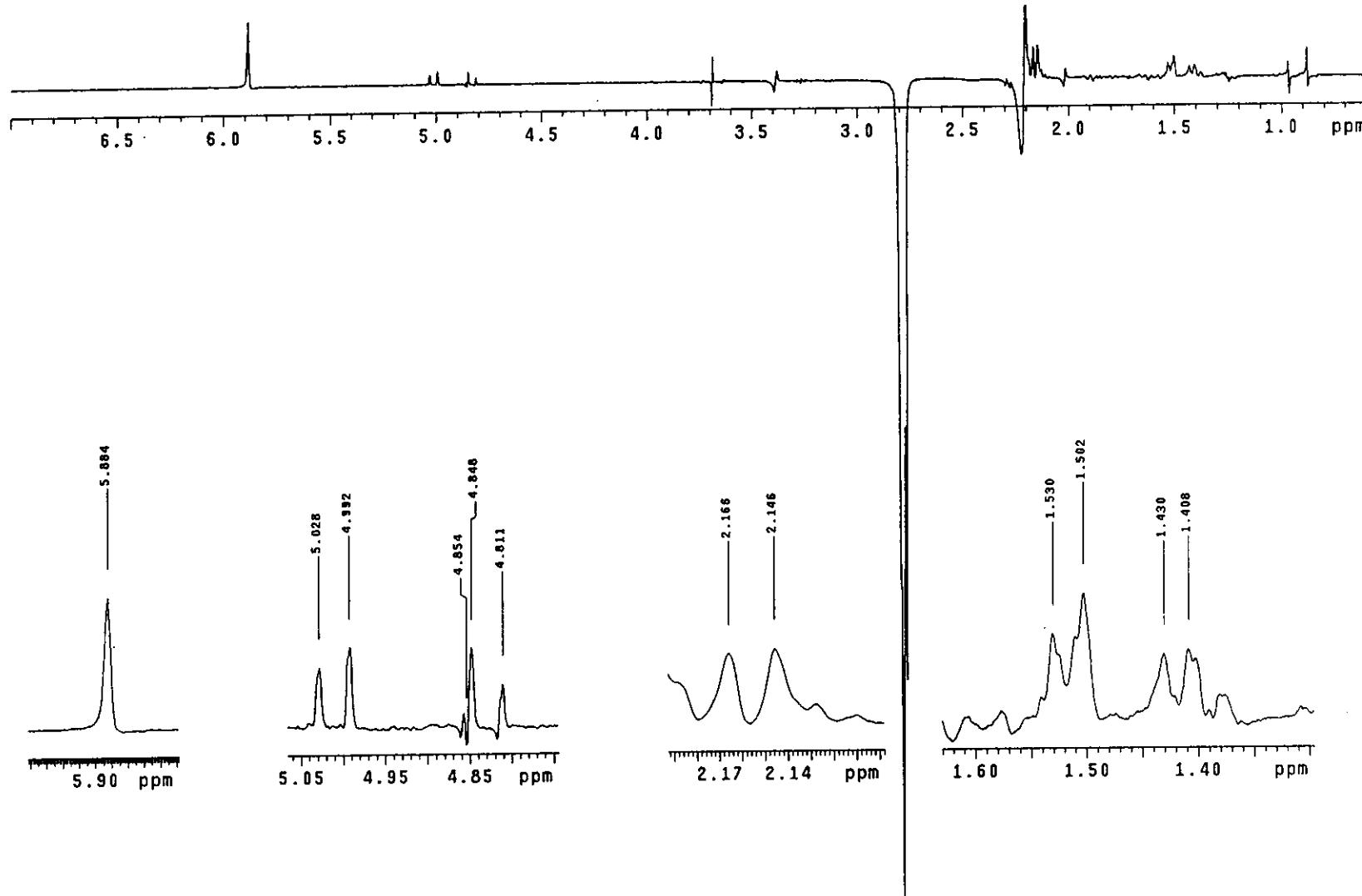


Figure 15 NOE spectrum of compound SCO1 (Irradiated at δ 2.77, (1))

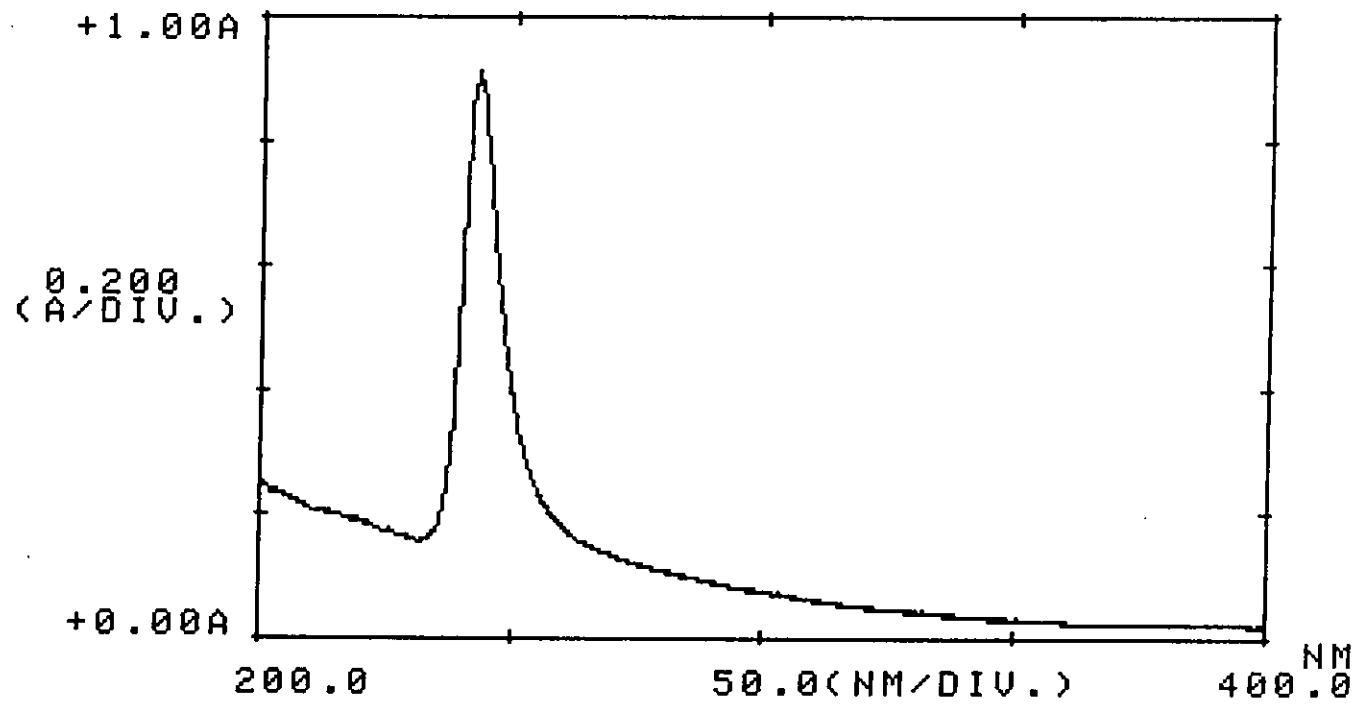


Figure 16 UV (CHCl_3) spectrum of compound SCO2

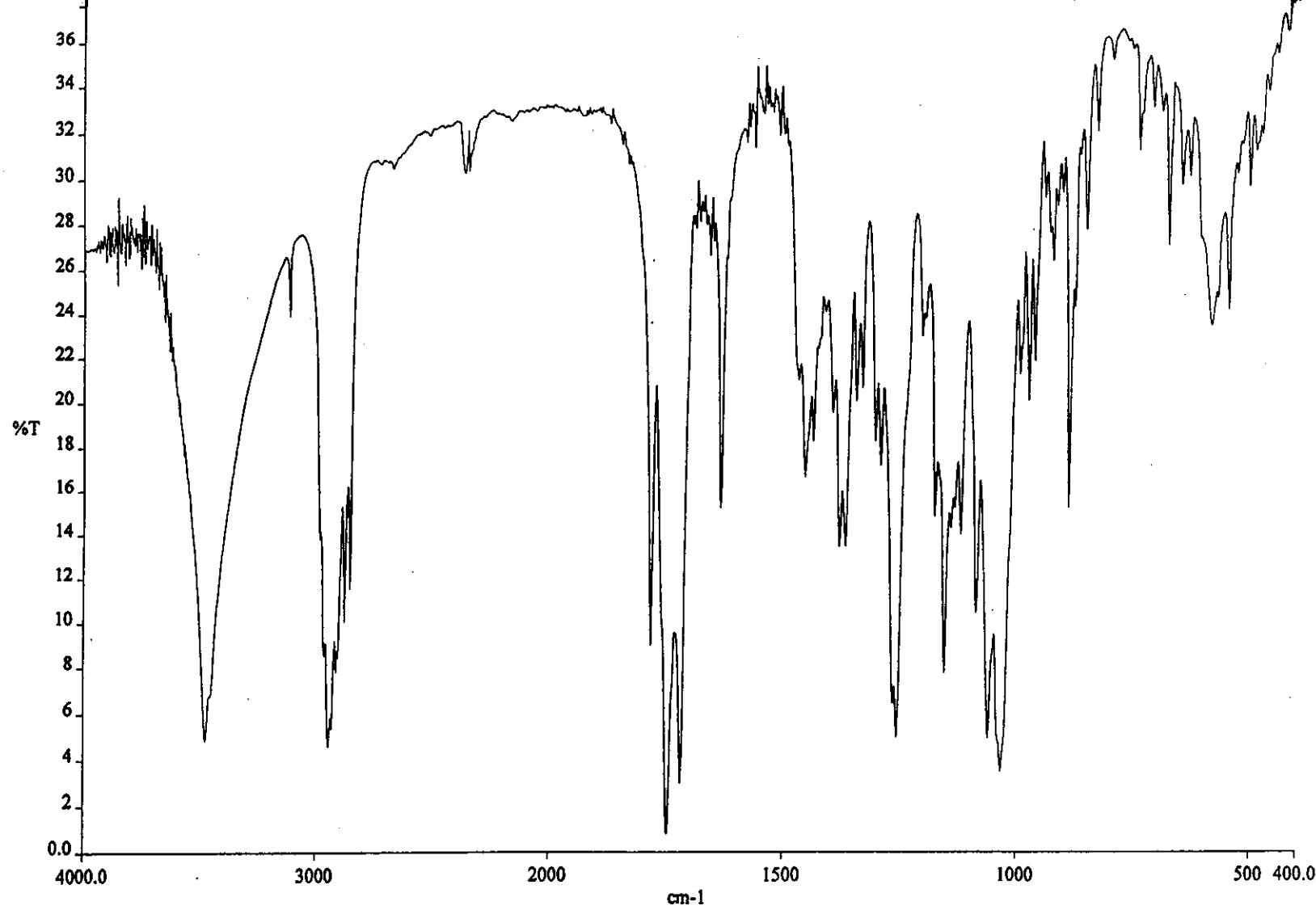


Figure 17 IR (KBr) spectrum of compound SCO₂

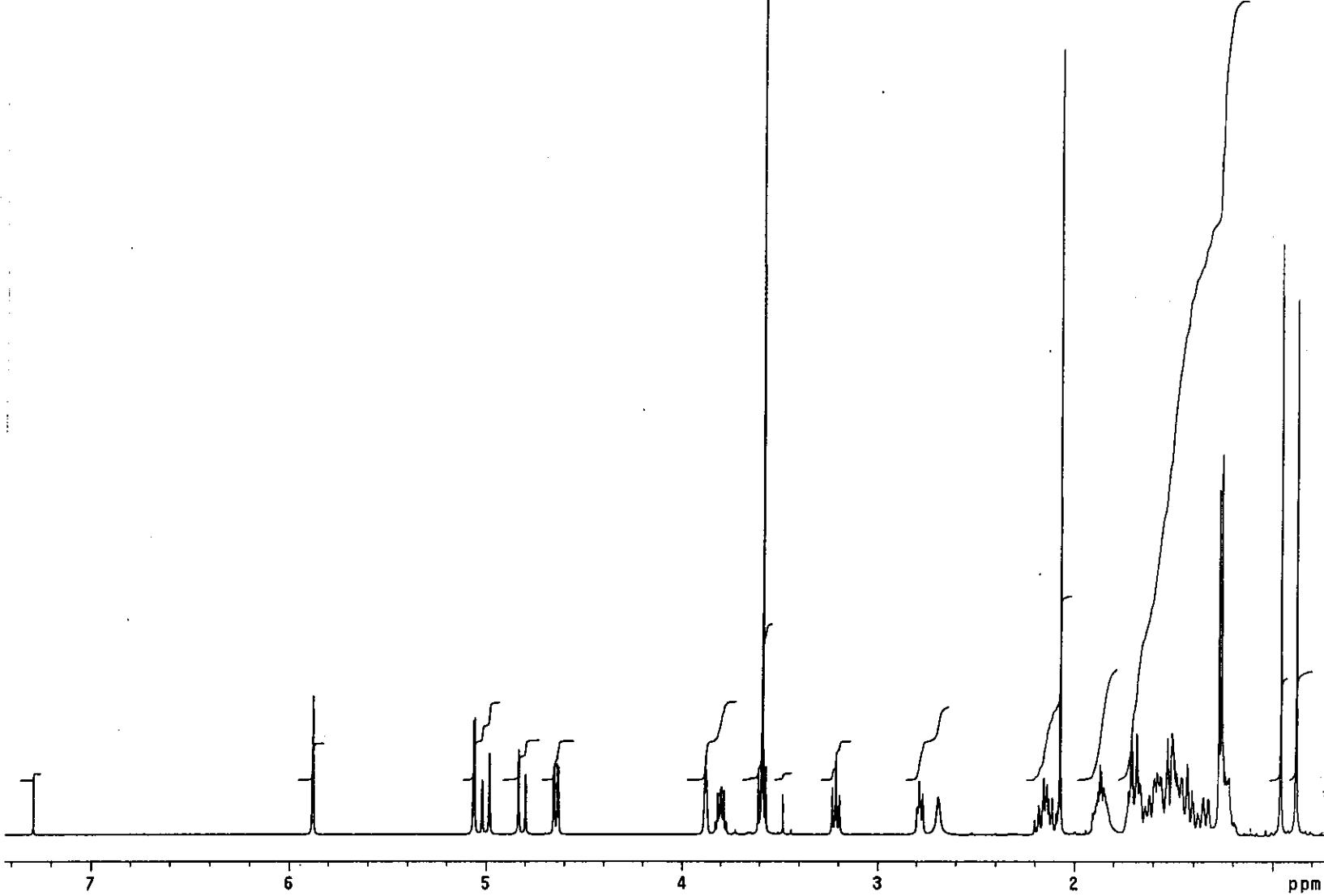


Figure 18 ^1H NMR (500 MHz, CDCl_3) spectrum of compound SCO₂

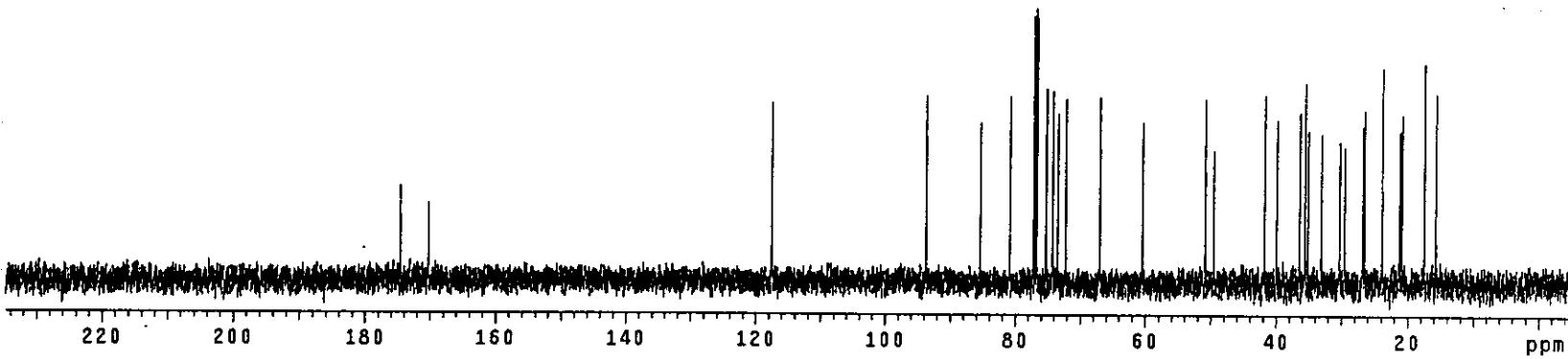


Figure 19 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound SCO2

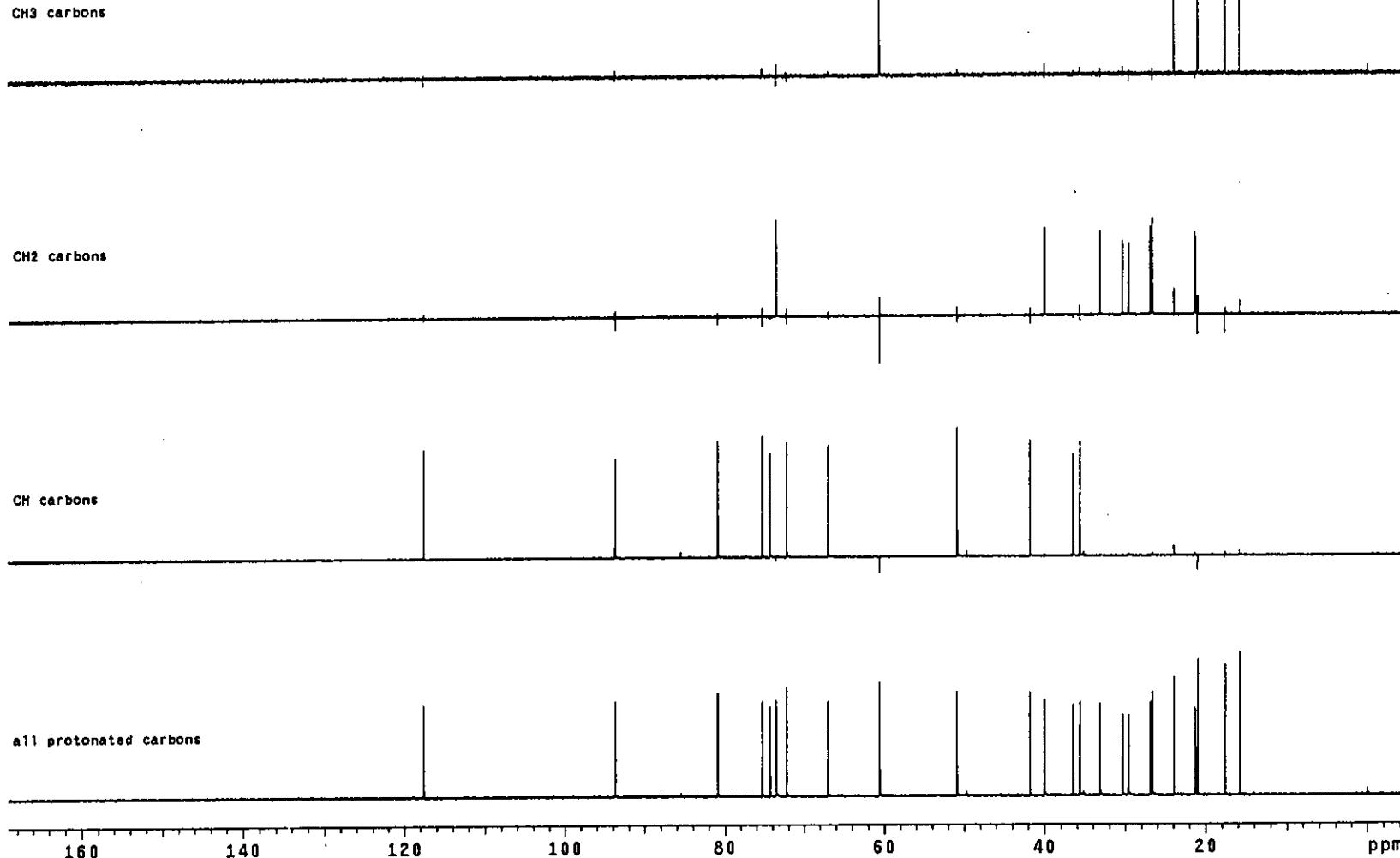


Figure 20 DEPT (CDCl_3) spectrum of compound SCO₂

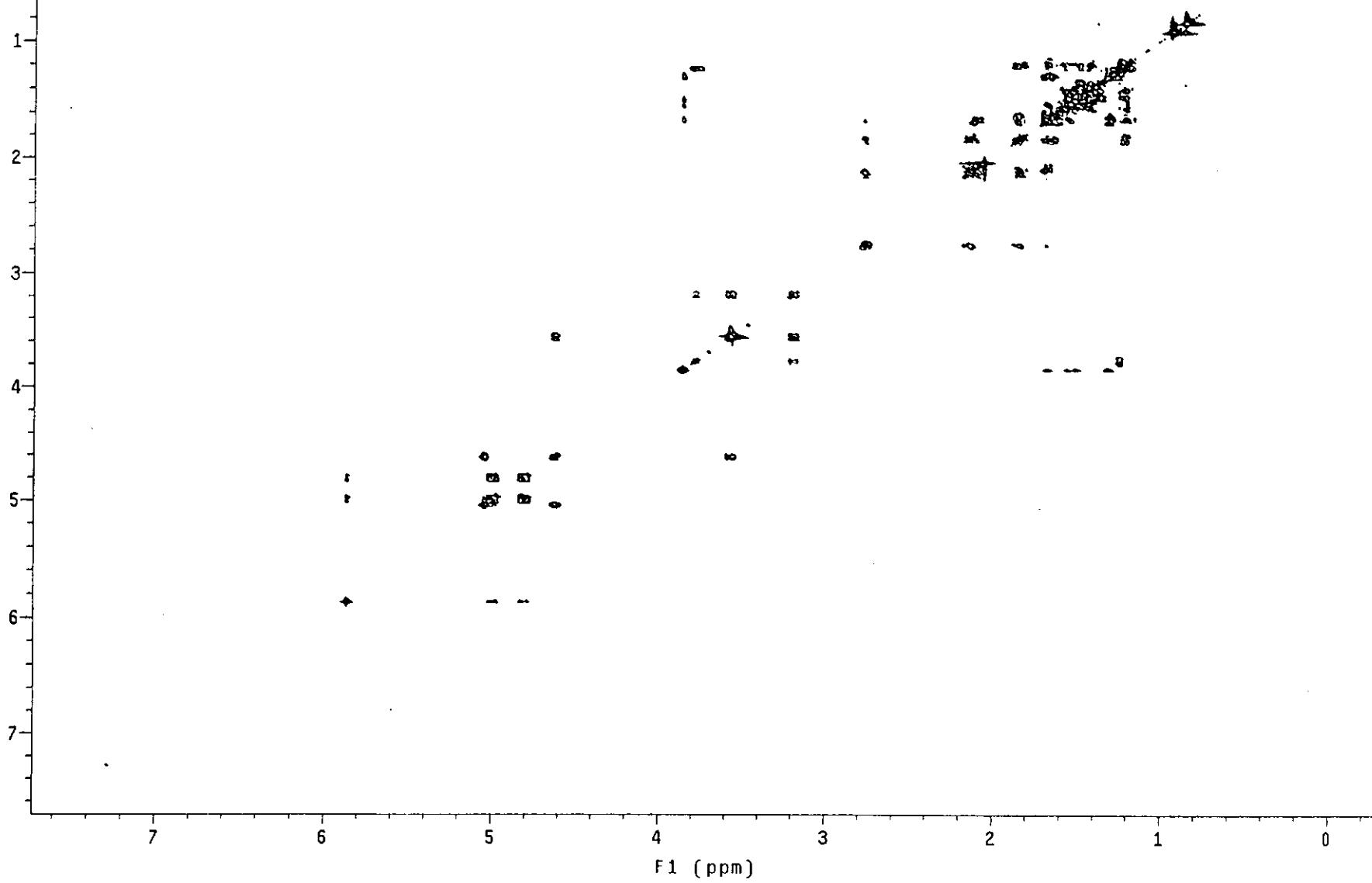


Figure 21 COSY (CDCl_3) spectrum of compound SCO2

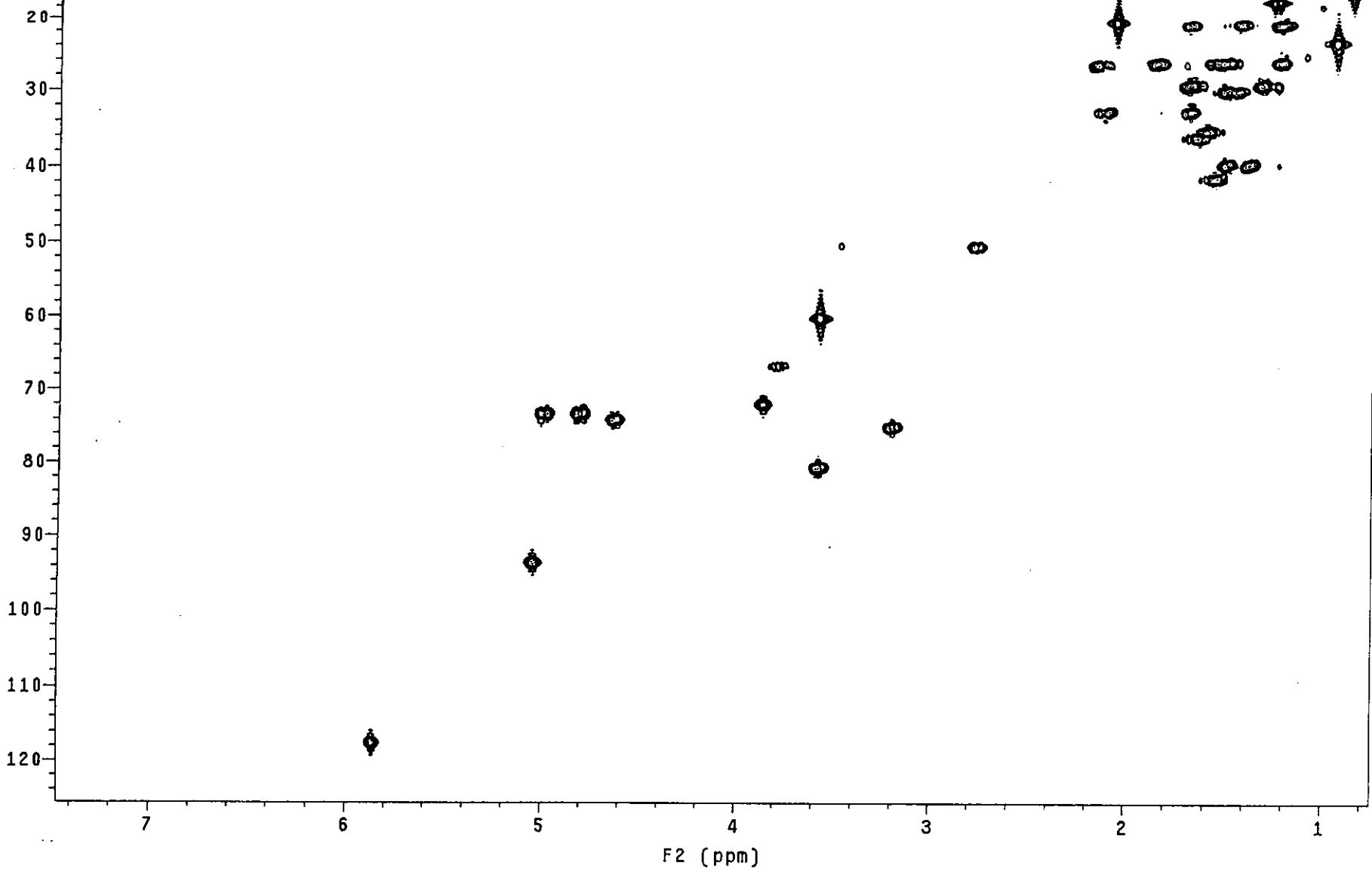


Figure 22 2D HMQC spectrum of compound SCO₂

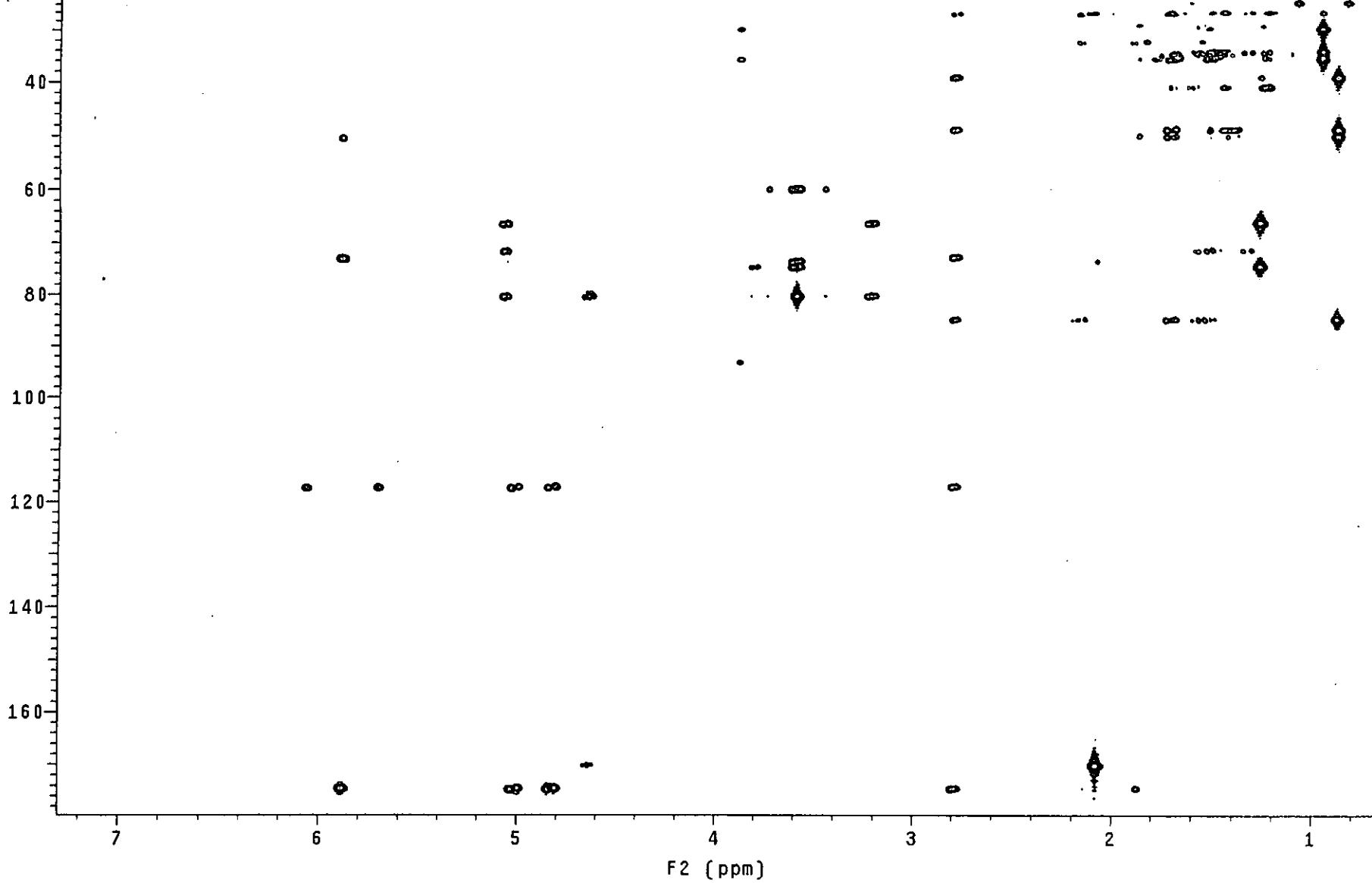


Figure 23 2D HMBC spectrum of compound SCO2

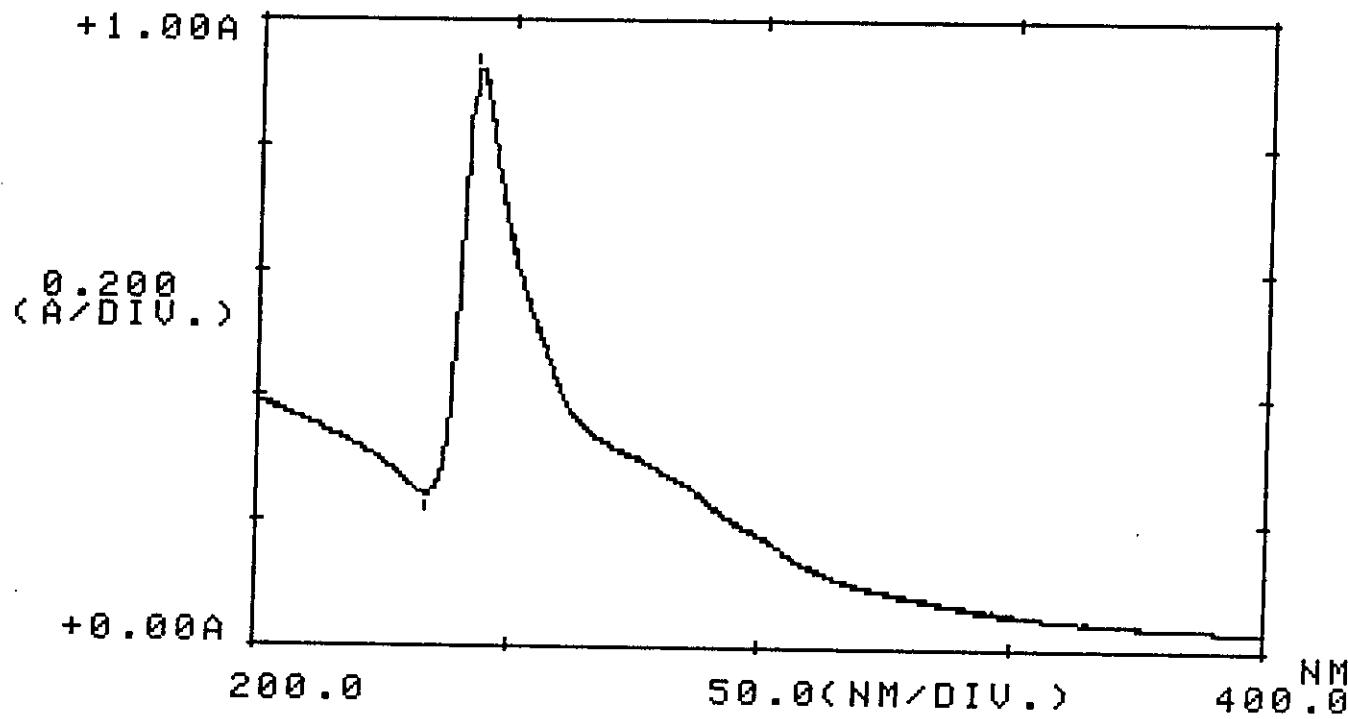


Figure 24 UV (CHCl_3) spectrum of compound SCO3

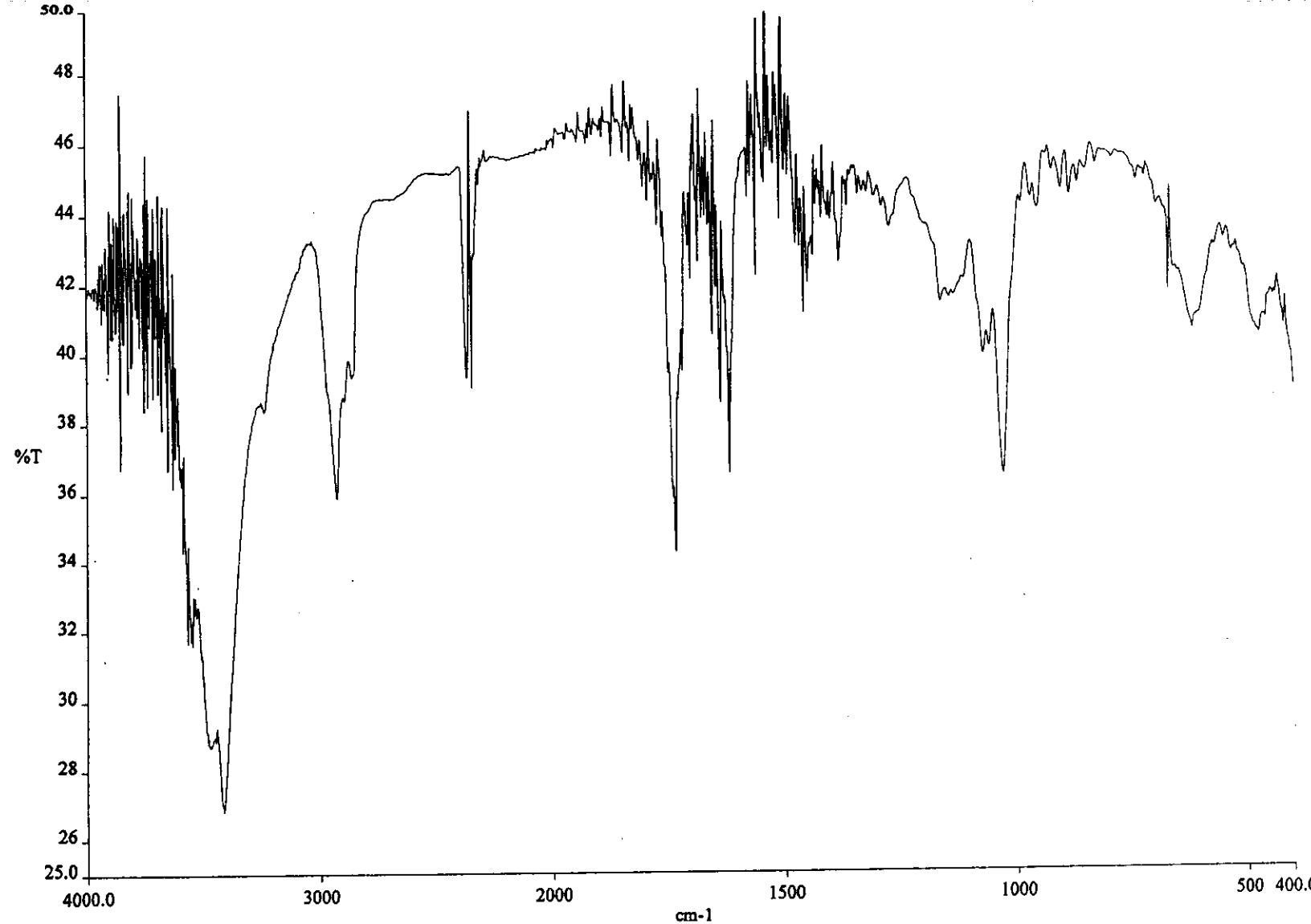


Figure 25 IR (KBr) spectrum of compound SCO₃

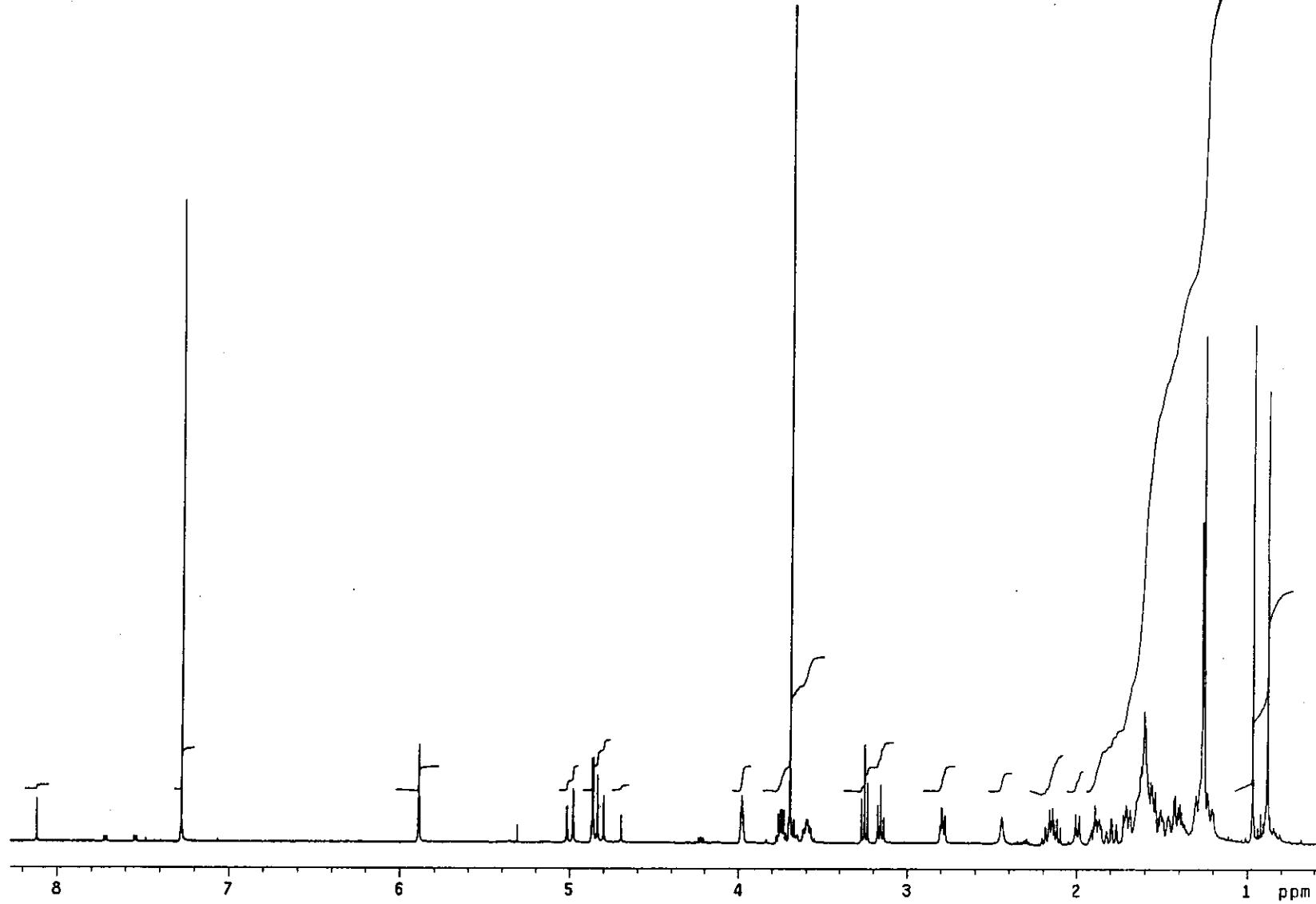


Figure 26 ^1H NMR (500 MHz, CDCl_3) spectrum of compound **SCO3**

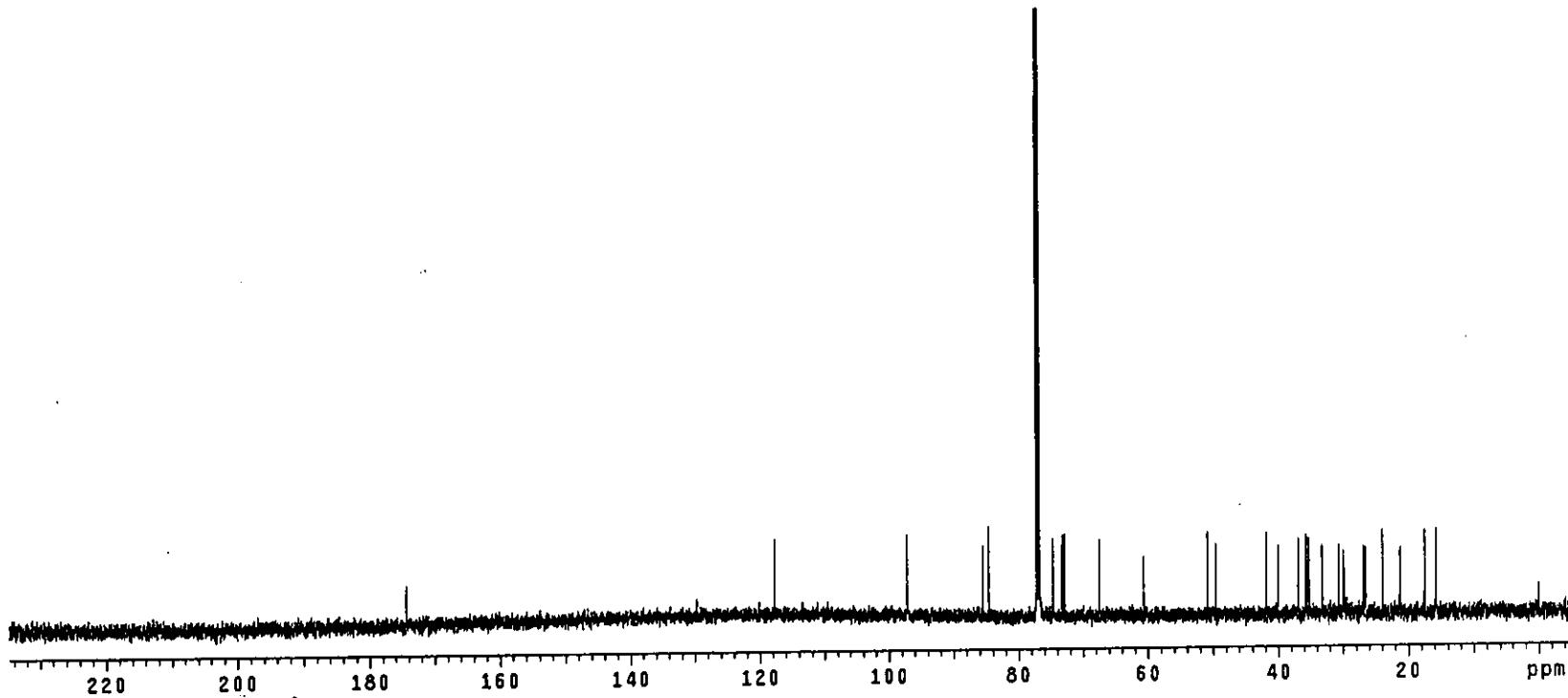


Figure 27 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound SCO3

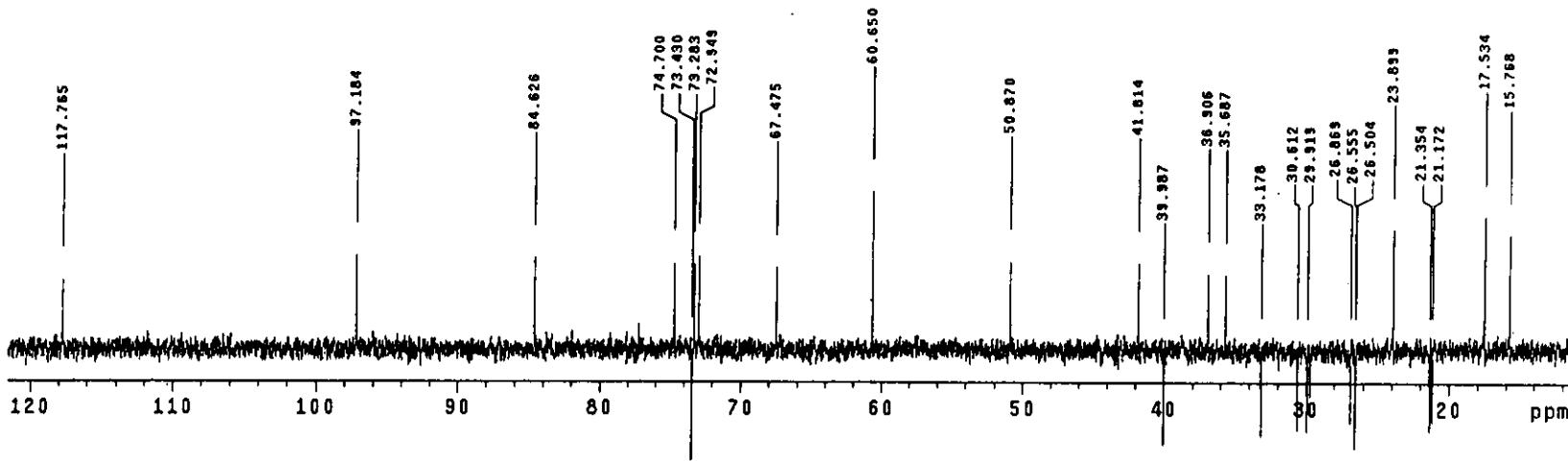


Figure 28 DEPT (CDCl_3) spectrum of compound SCO3

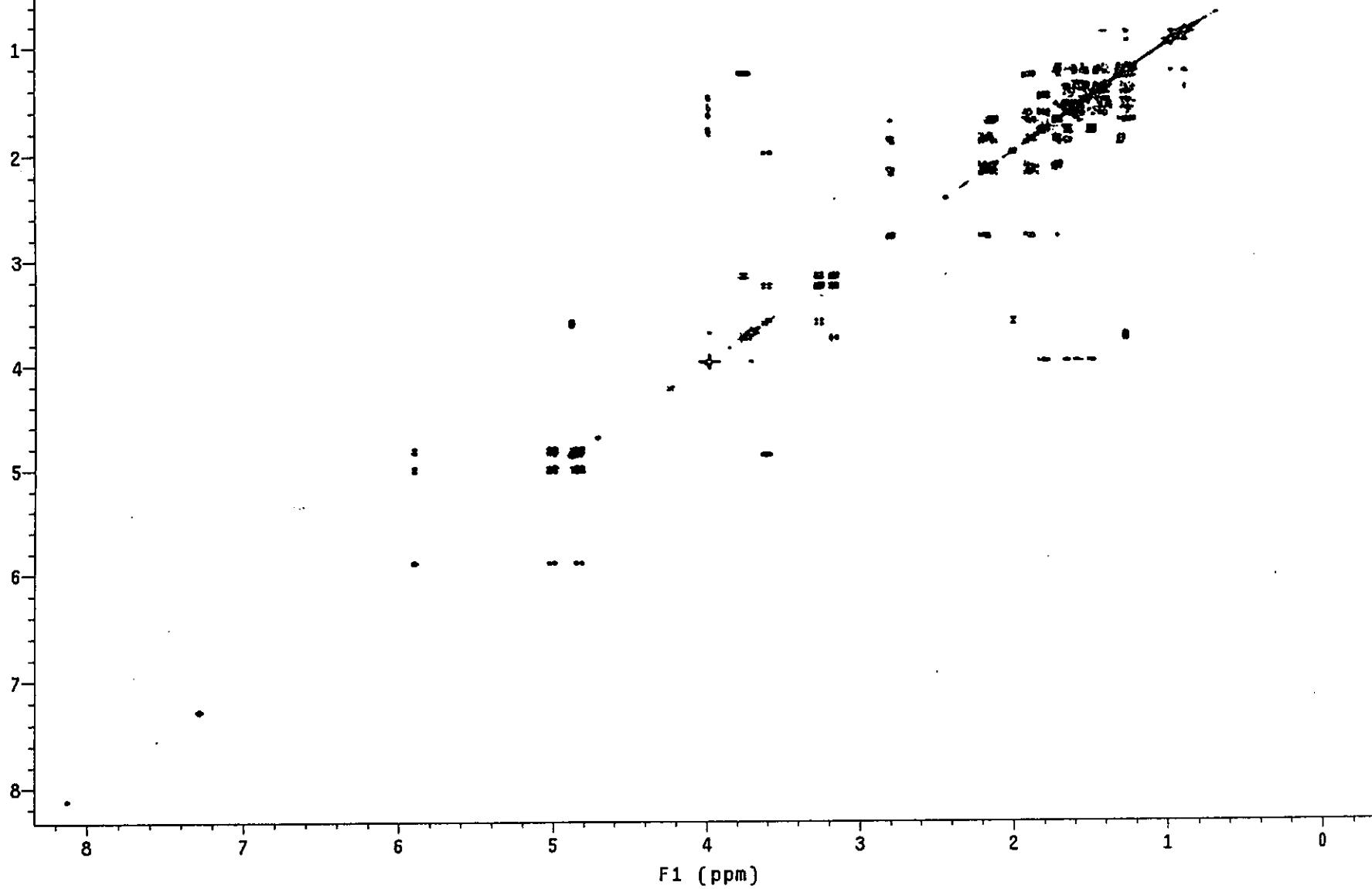


Figure 29 2D COSY spectrum of compound SCO3

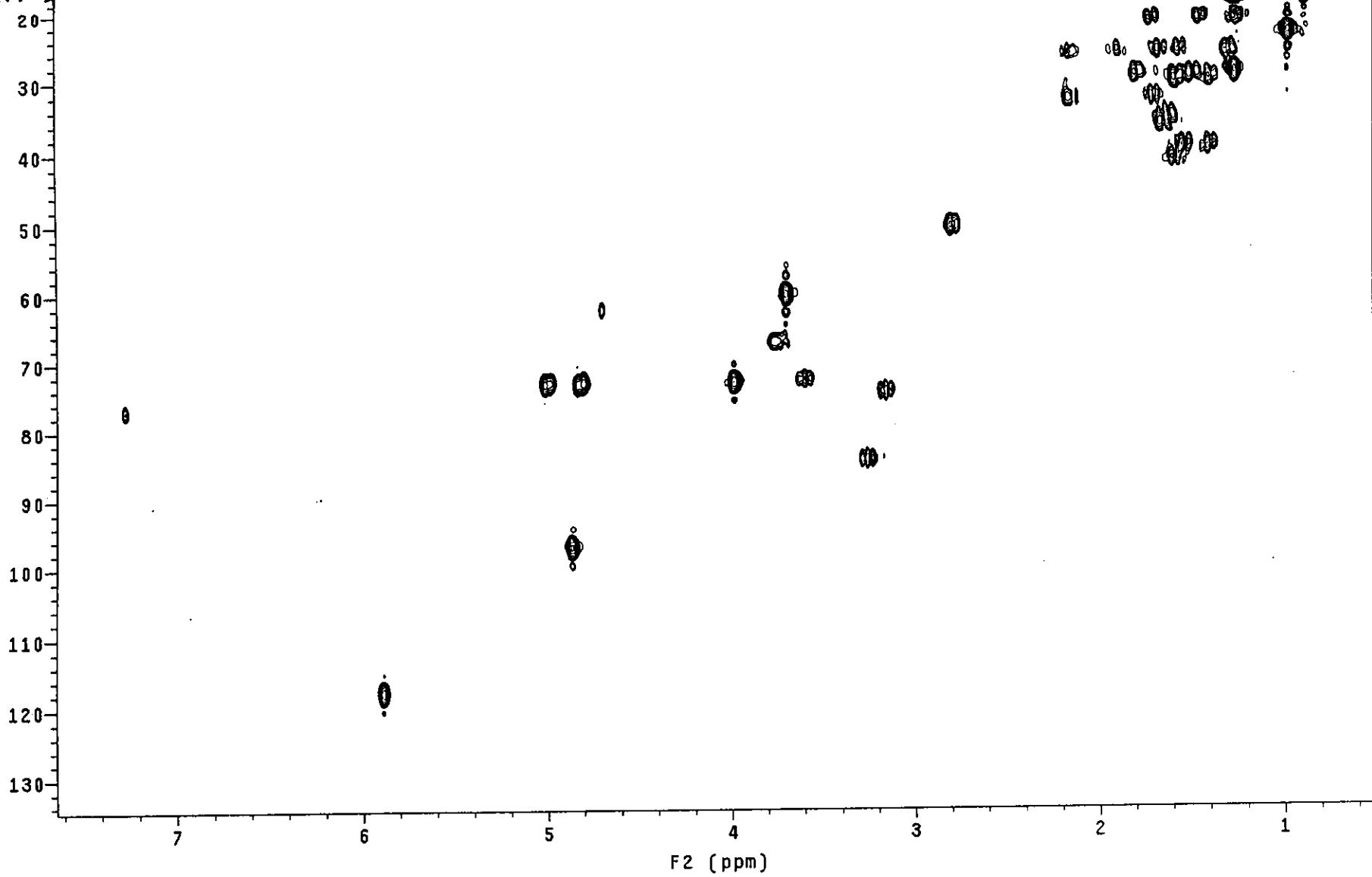


Figure 30 2D HMQC spectrum of compound SCO3

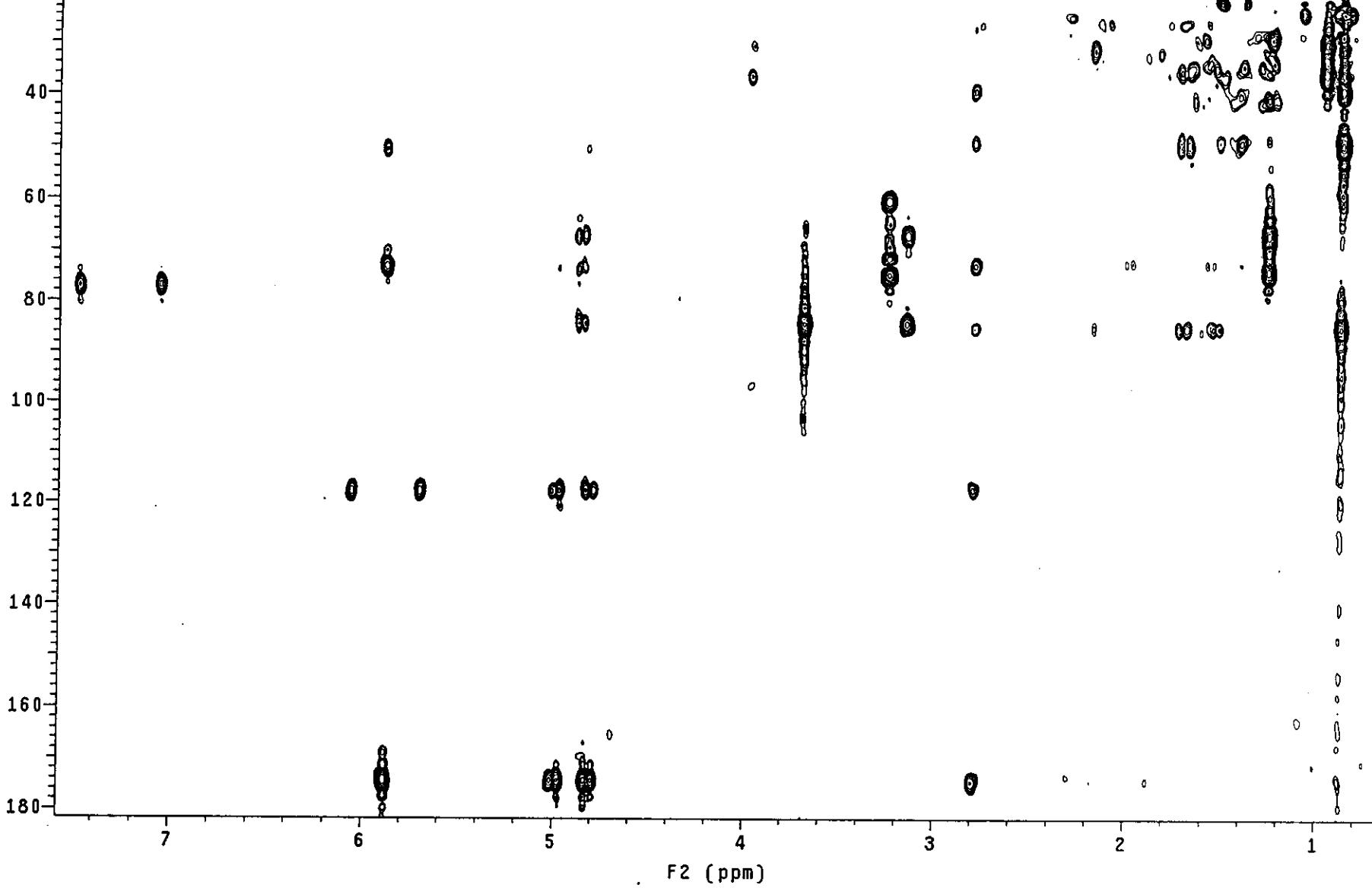


Figure 31 2D HMBC spectrum of compound SCO3

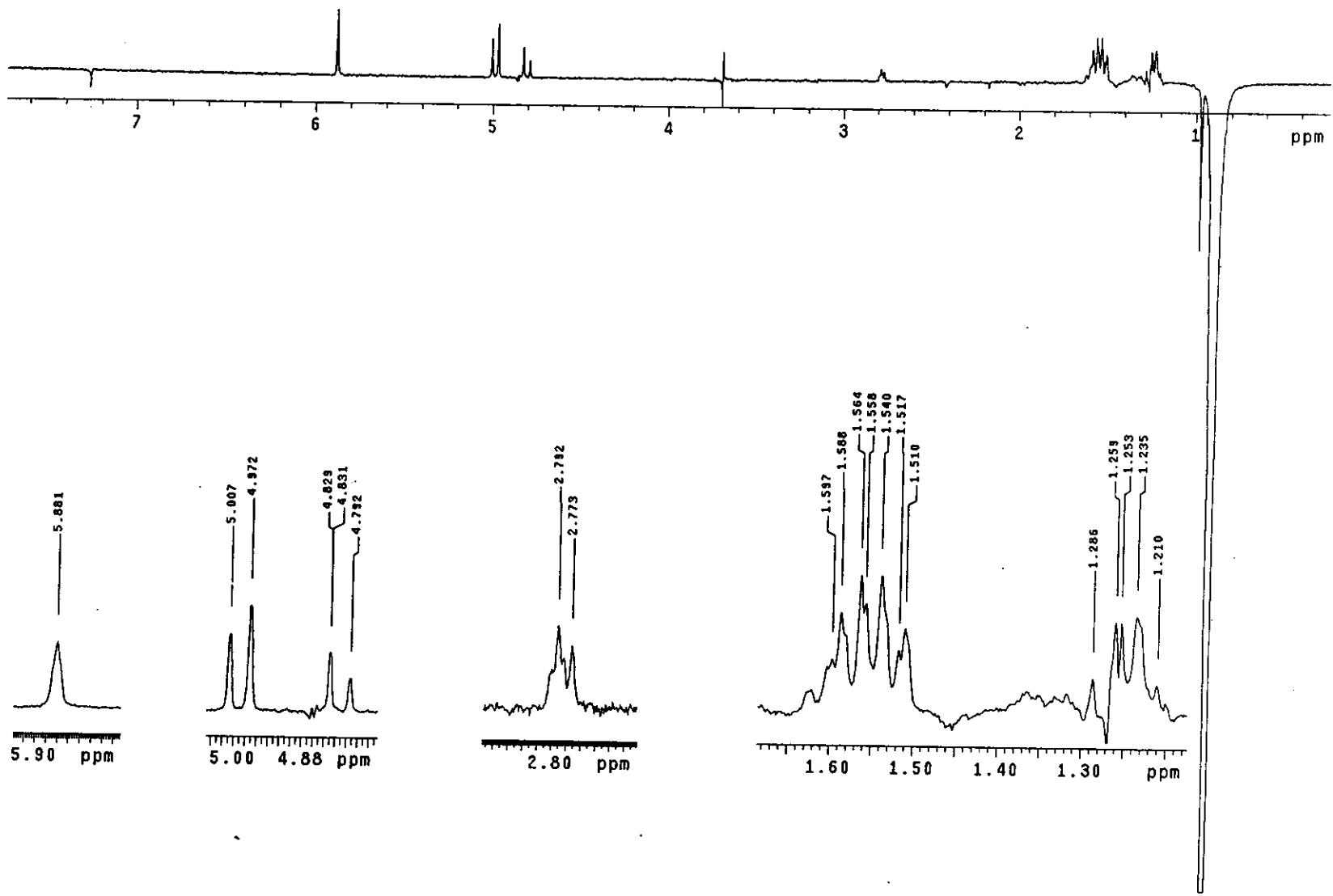


Figure 32 NOE spectrum of compound SCO3 (Irradiated at δ 0.88, (1))

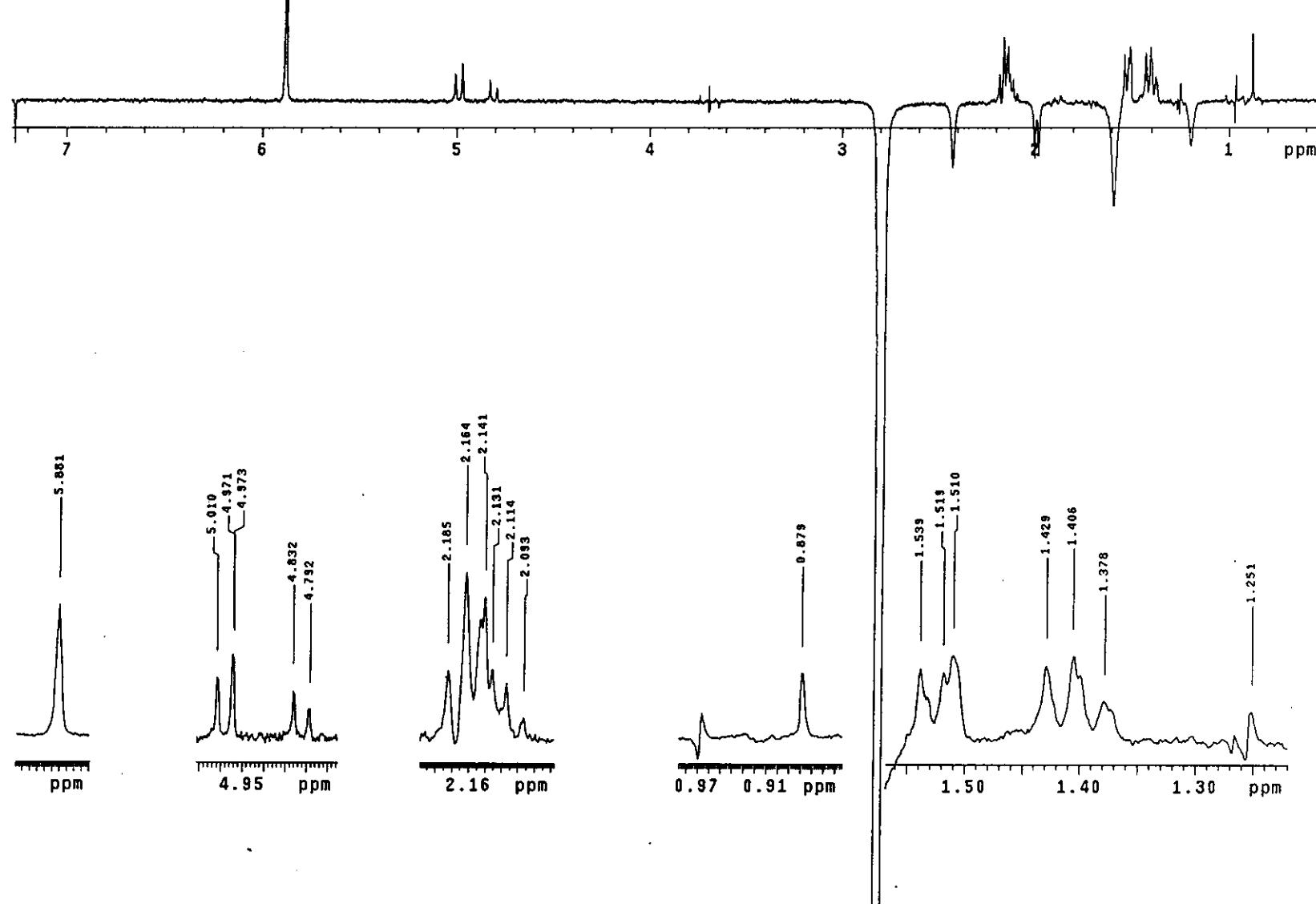


Figure 33 NOE spectrum of compound SCO3 (Irradiated at δ 2.79, (2))

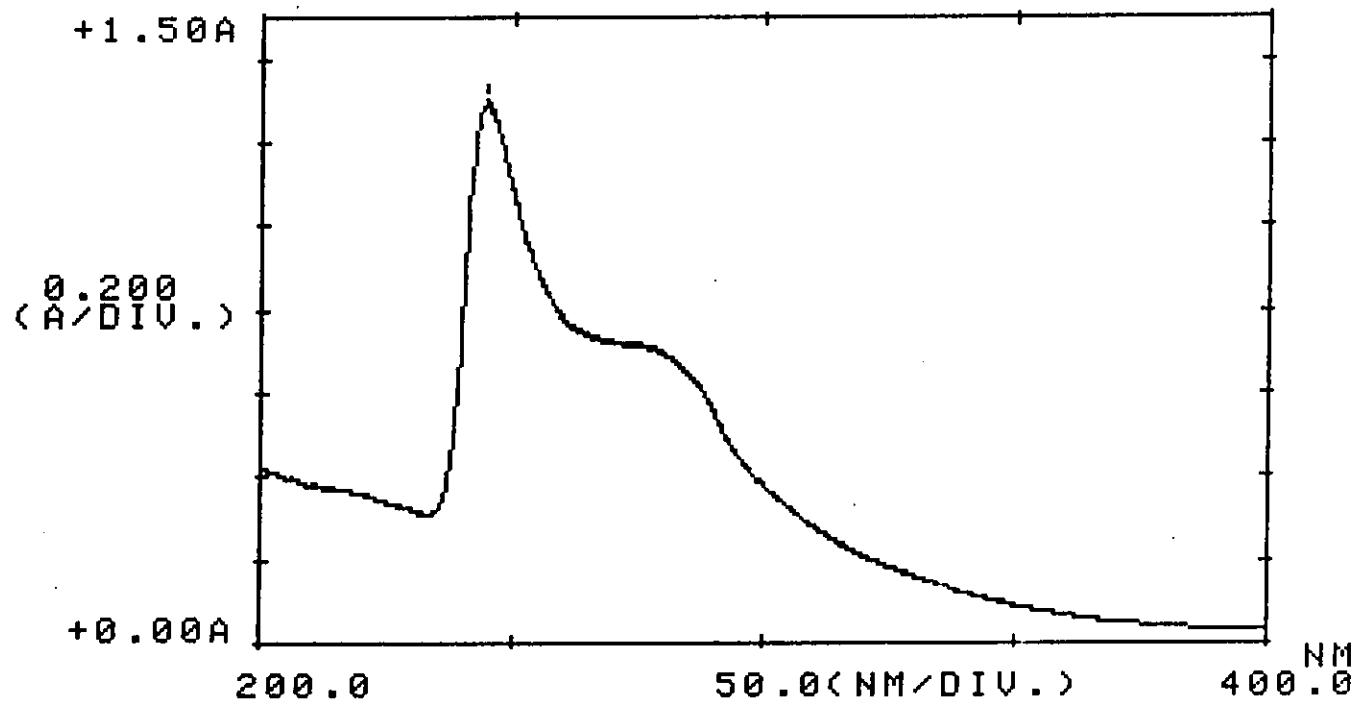


Figure 34 UV (CHCl_3) spectrum of compound SCO4

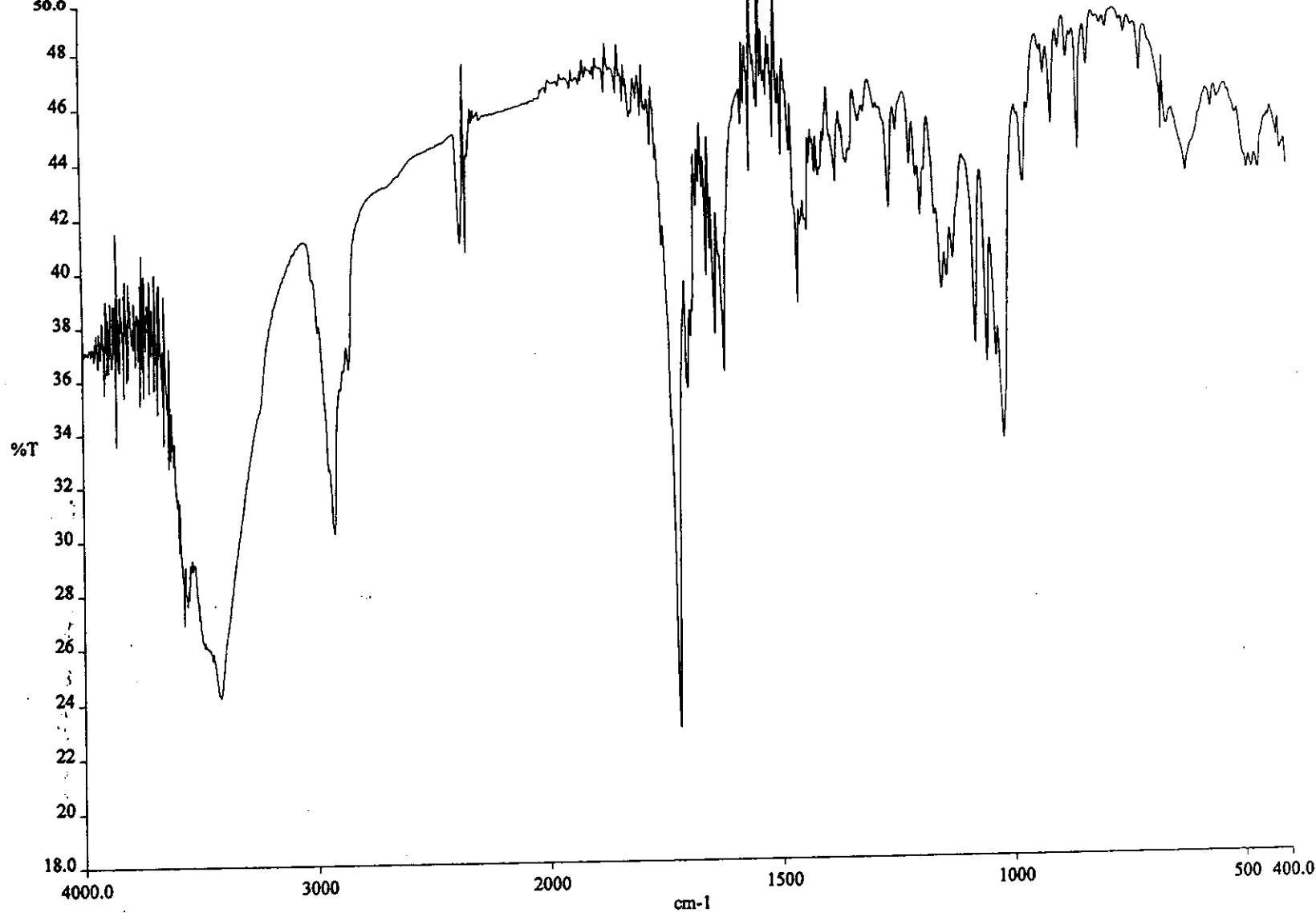


Figure 35 IR (KBr) spectrum of compound SCO4

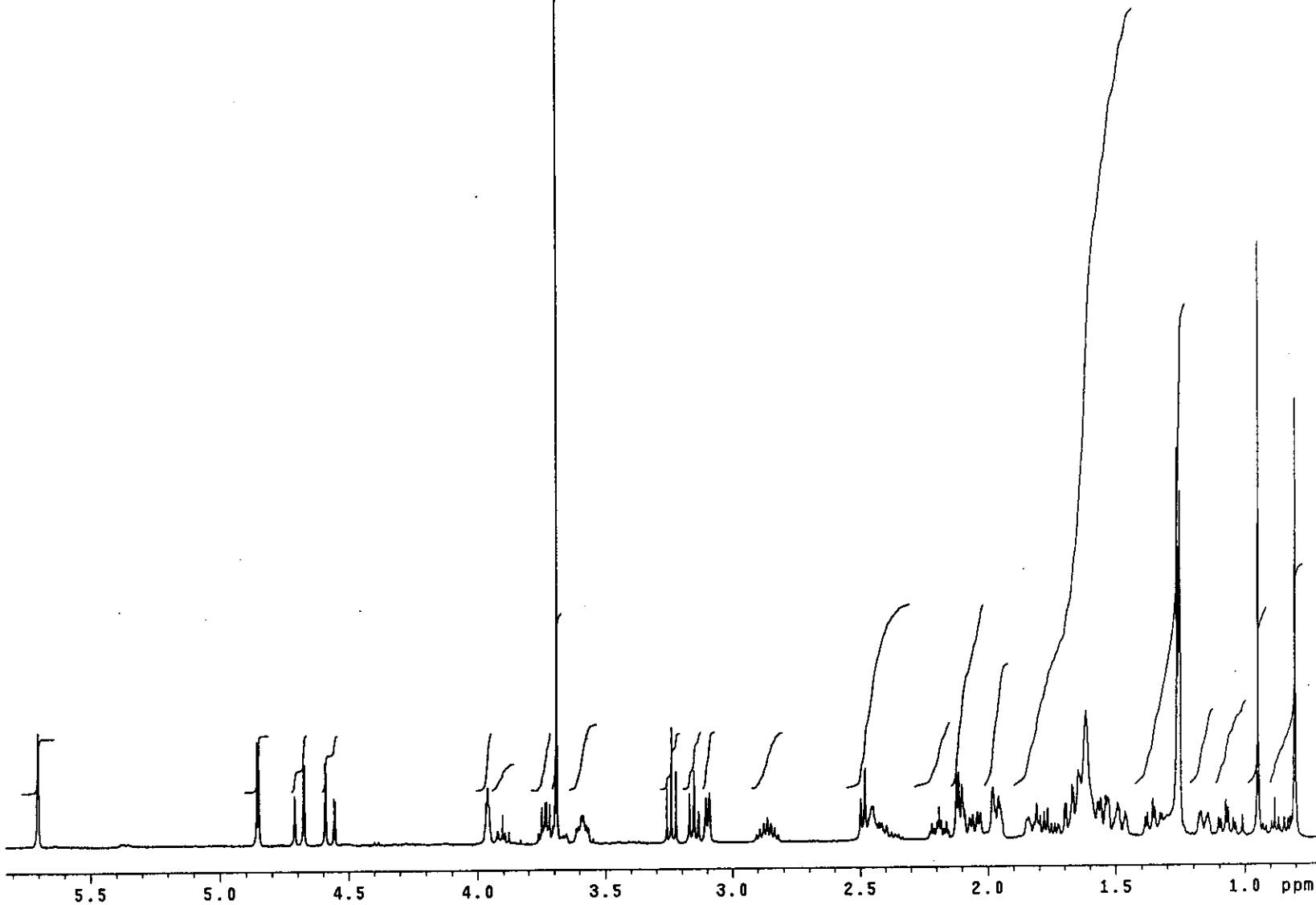


Figure 36 ^1H NMR (500 MHz, CDCl_3) spectrum of compound SCO4

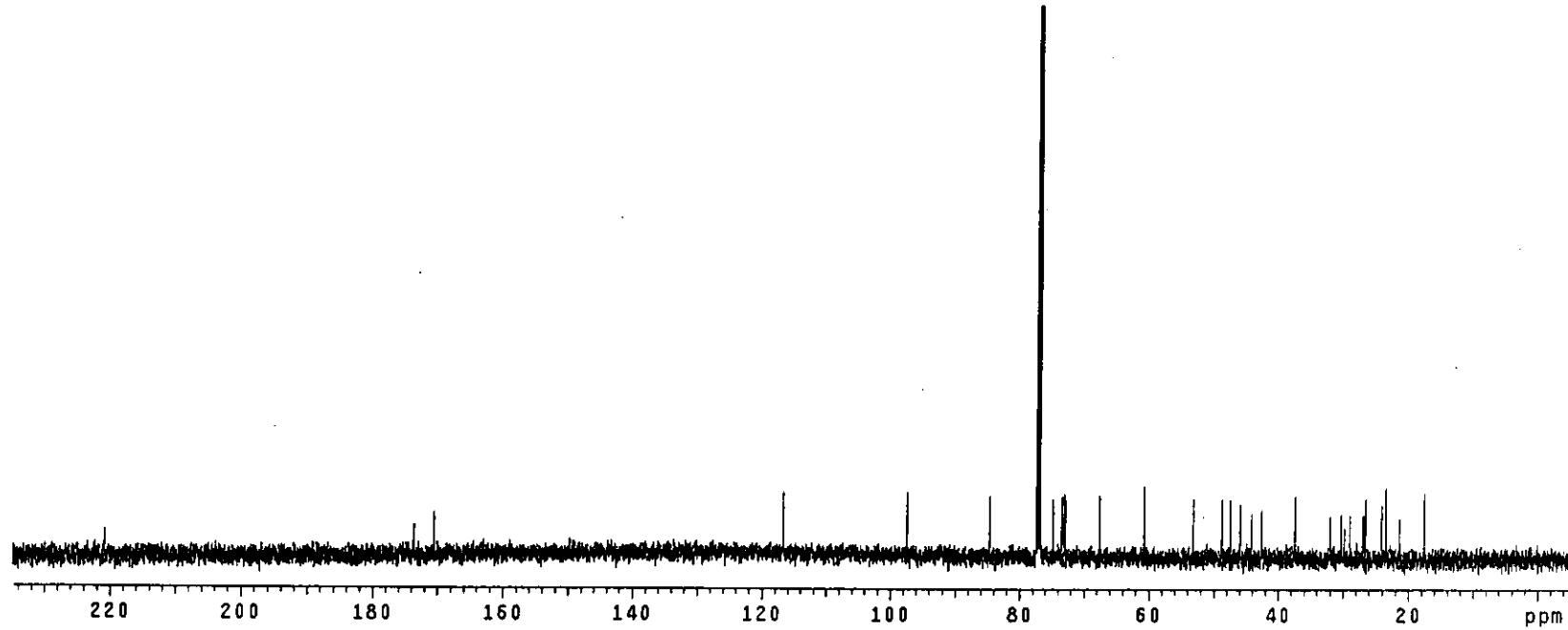


Figure 37 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound SCO4

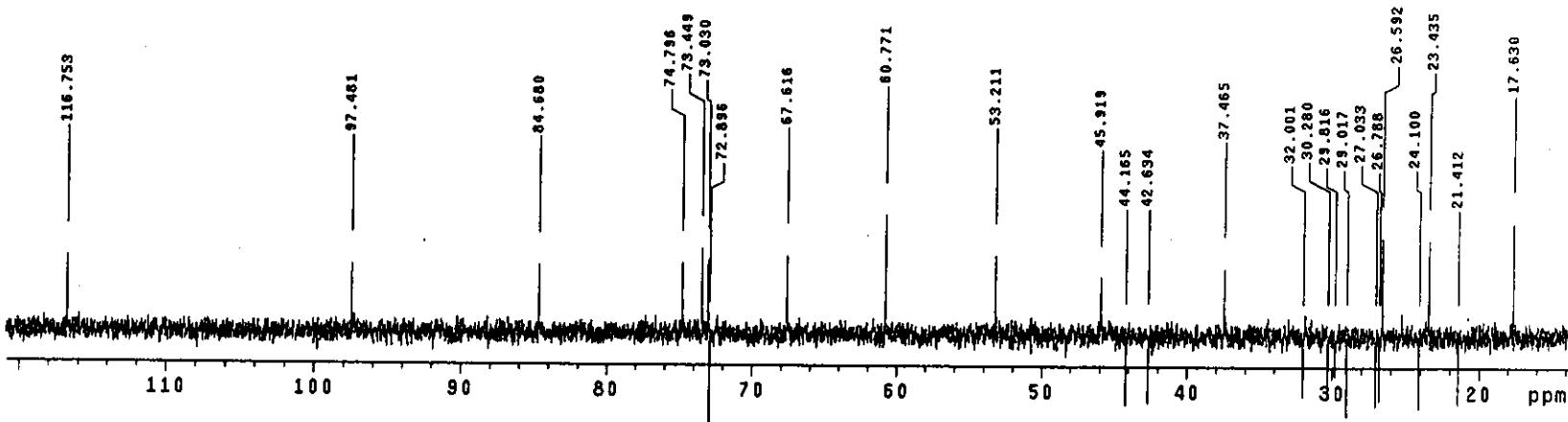


Figure 38 DEPT (CDCl_3) spectrum of compound SCO4

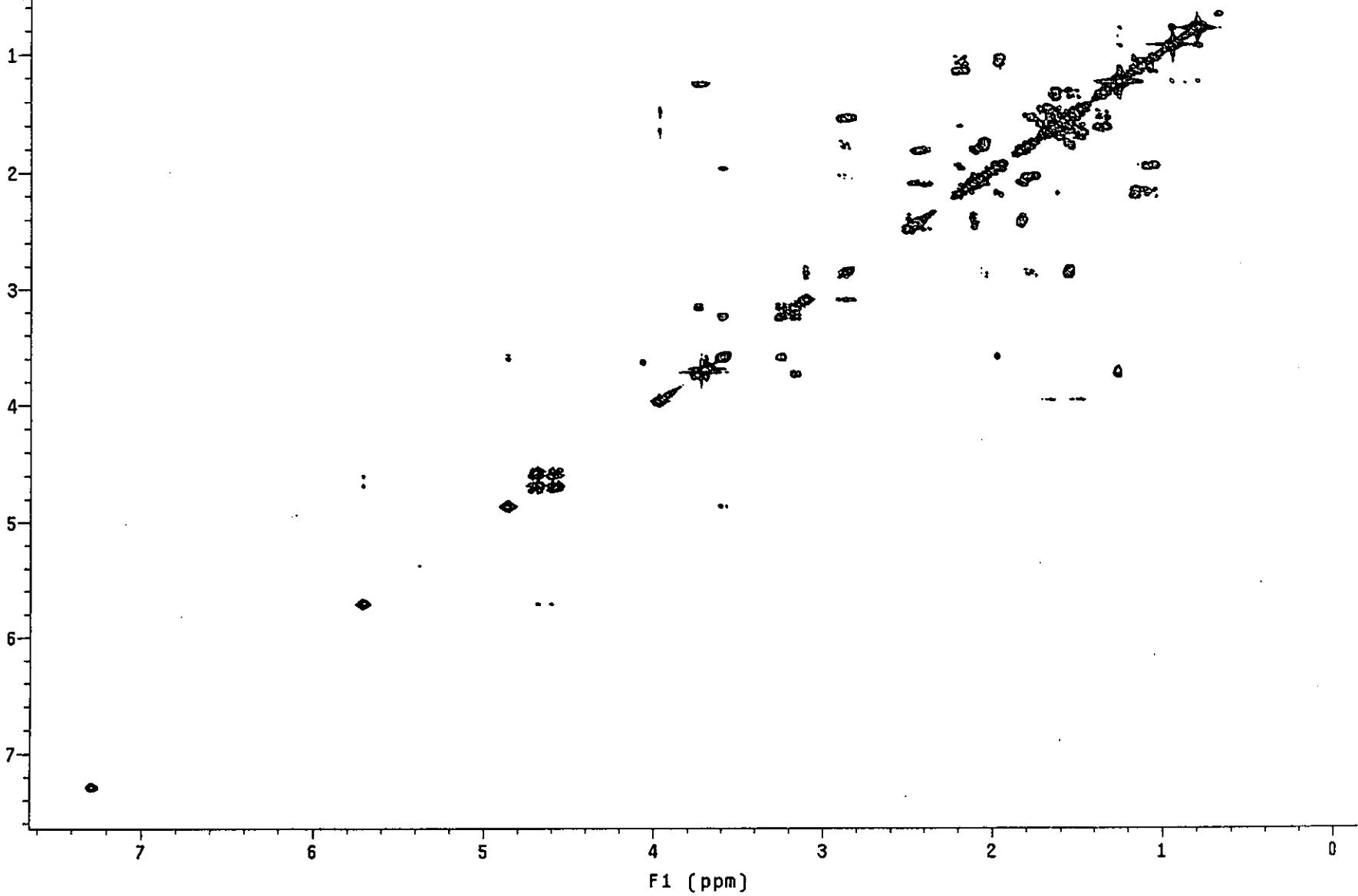


Figure 39 2D COSY spectrum of compound SCO4

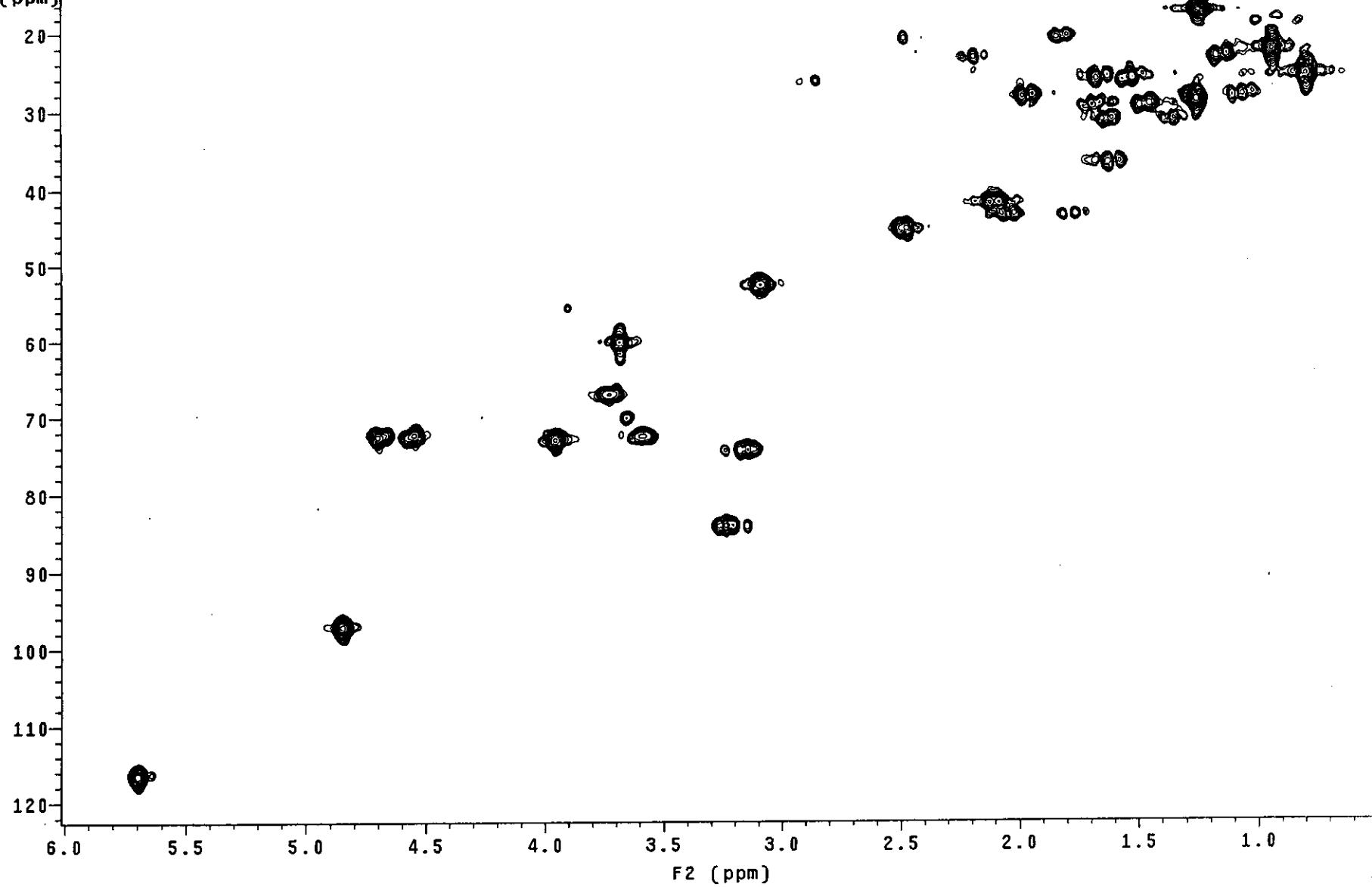


Figure 40 2D HMQC spectrum of compound SCO4

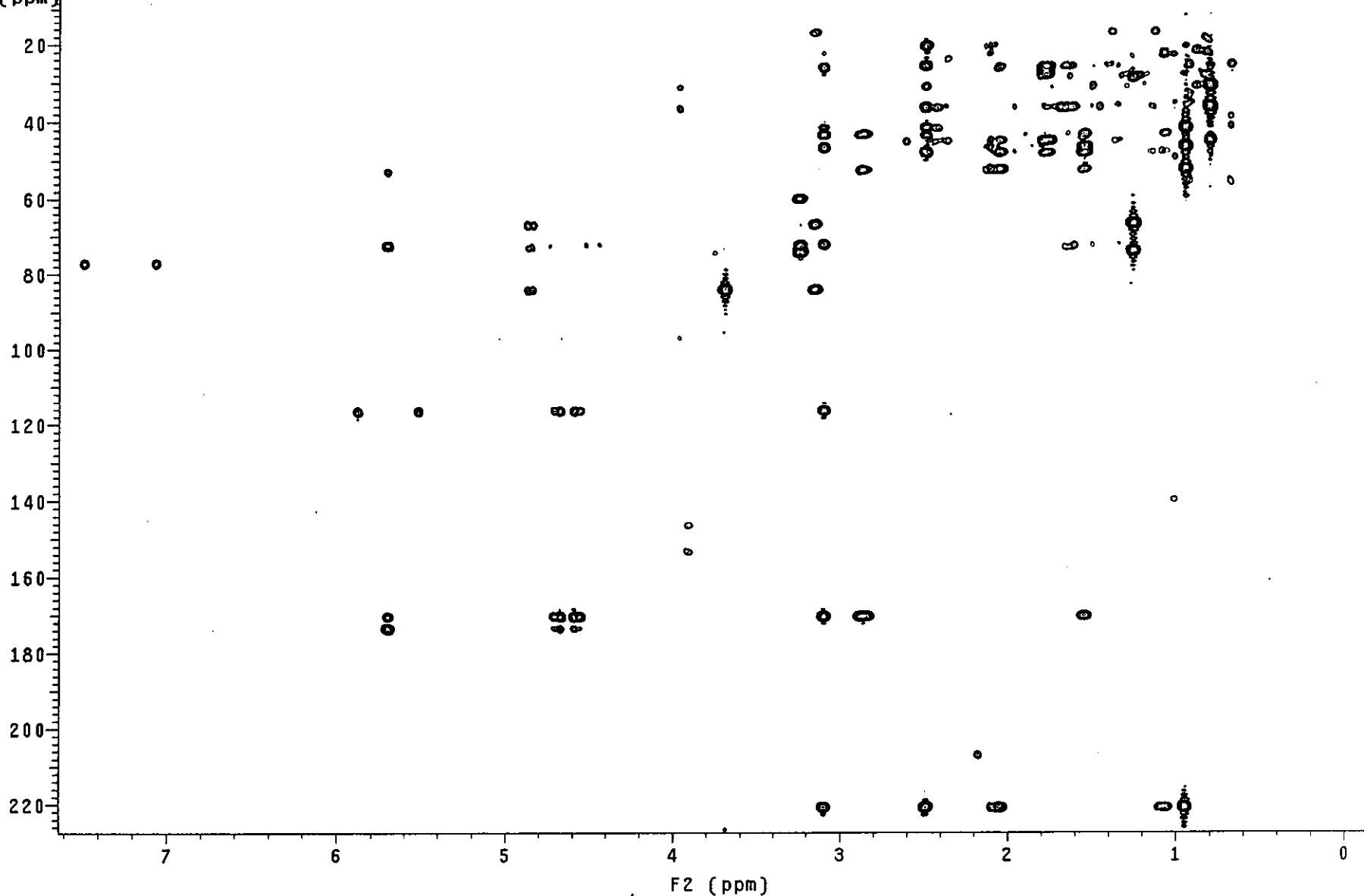


Figure 41 2D HMBC spectrum of compound SCO4

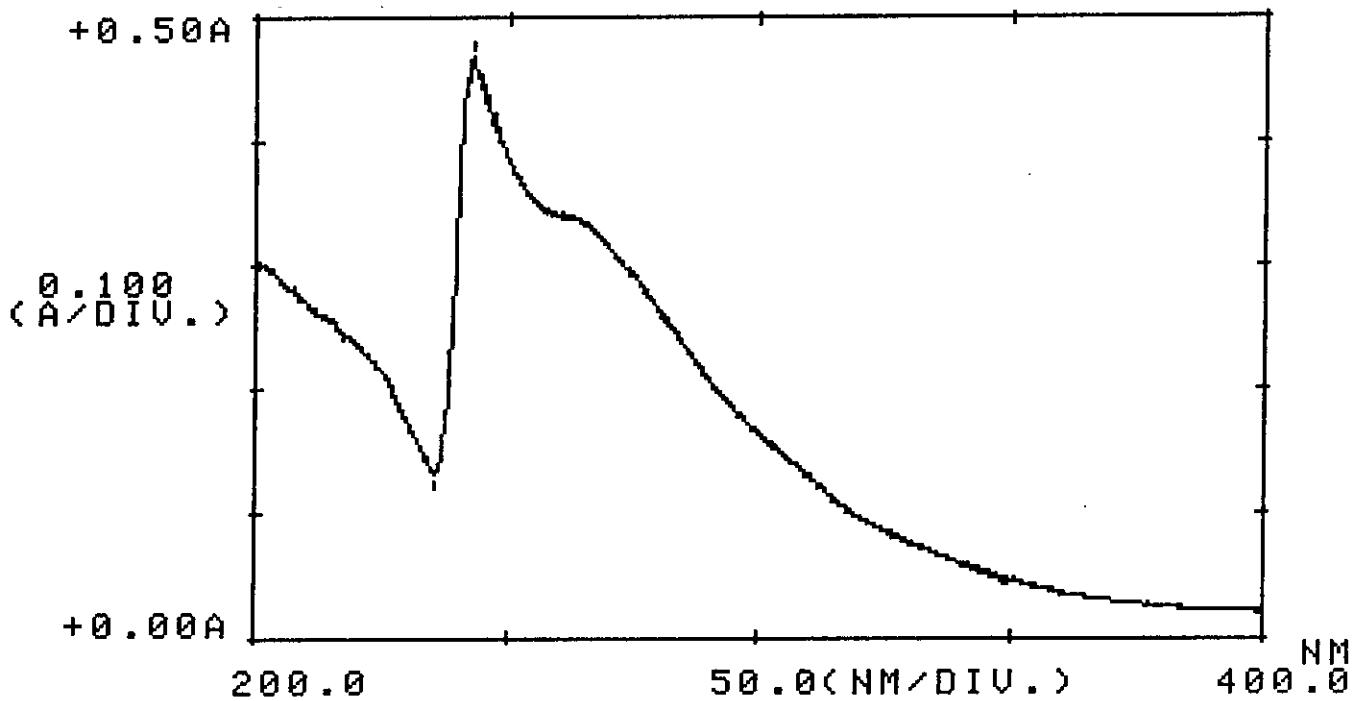


Figure 42 UV (CHCl_3) spectrum of compound SCO5

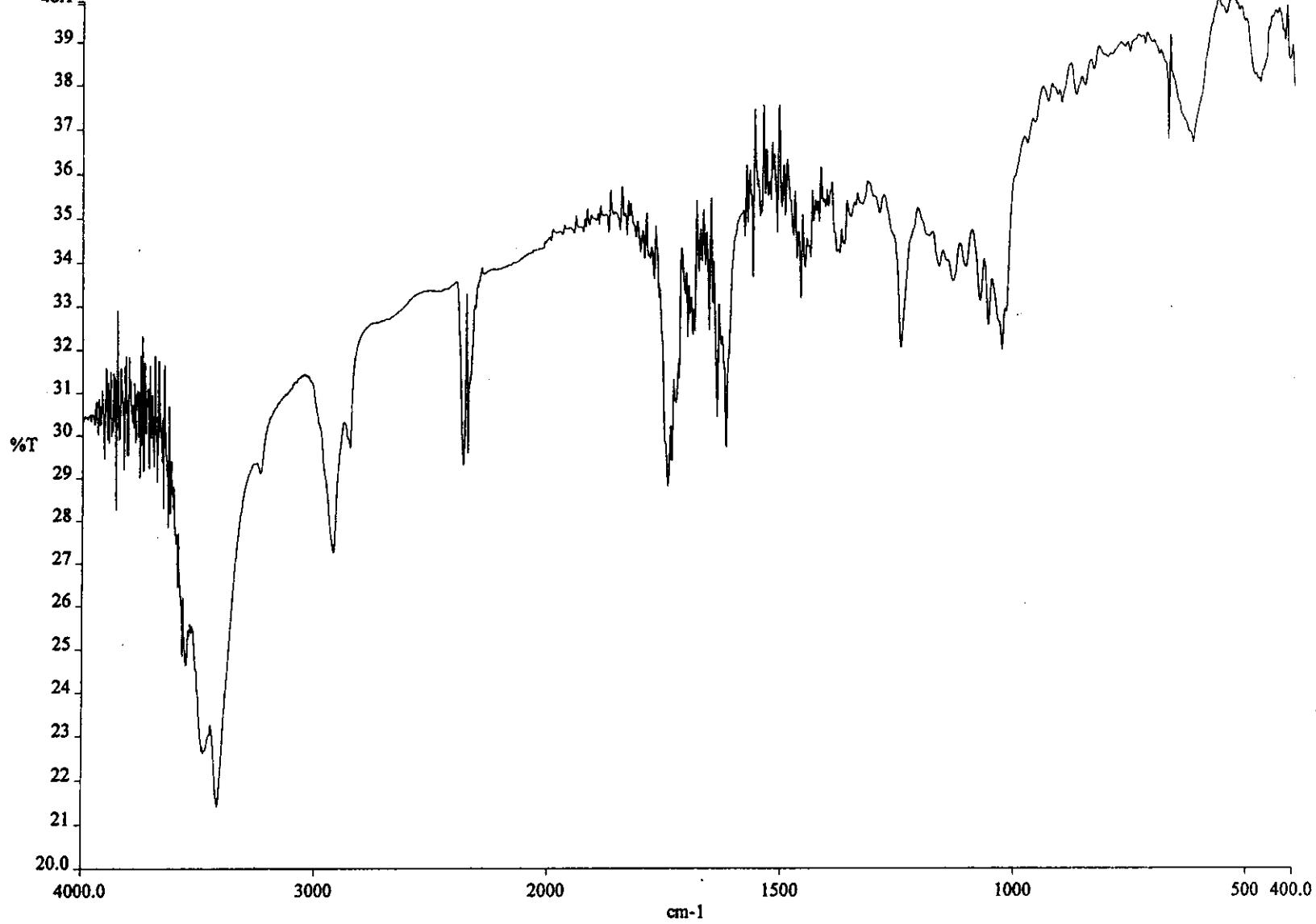


Figure 43 IR (KBr) spectrum of compound SC05

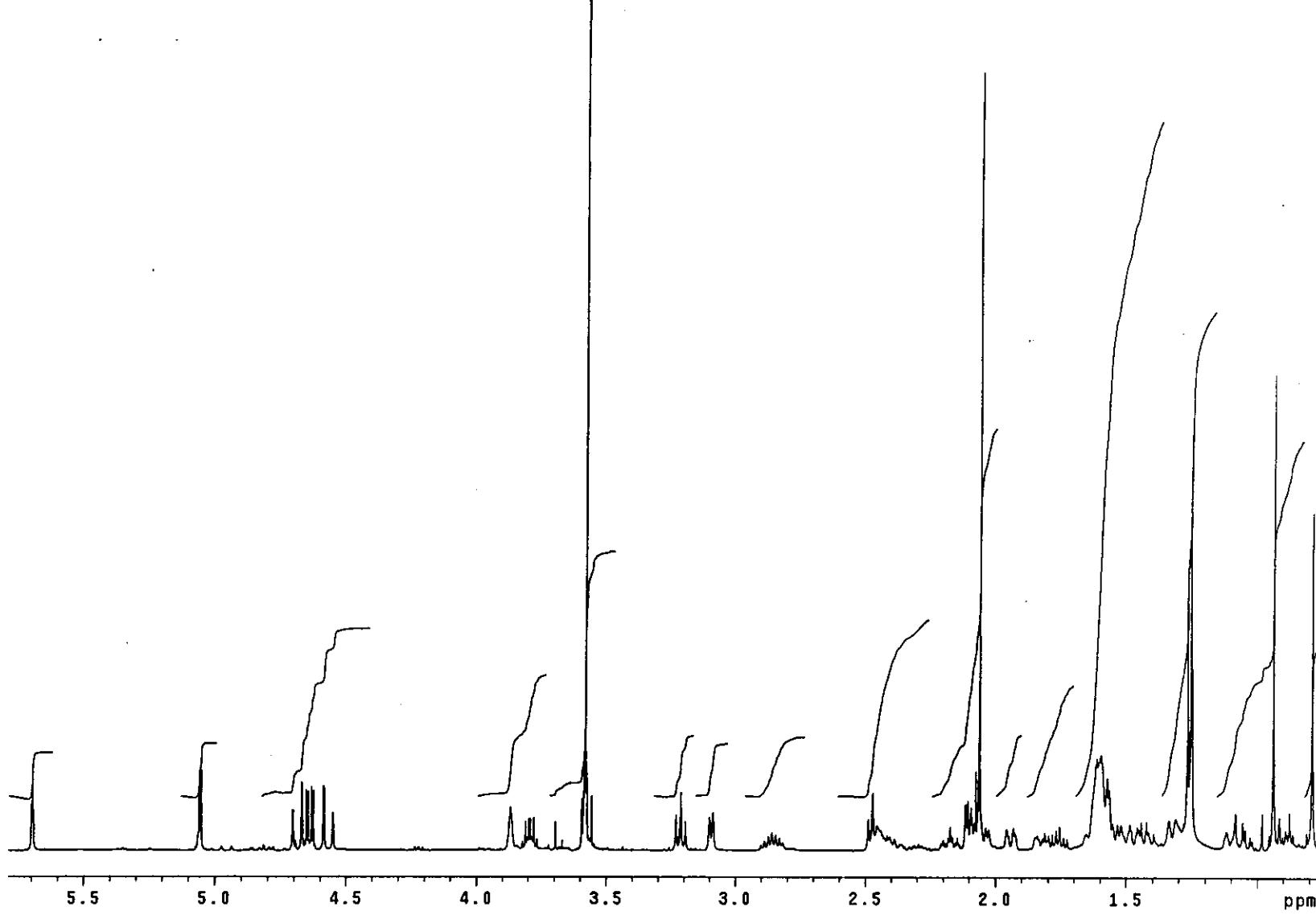


Figure 44 ^1H NMR (500 MHz, CDCl_3) spectrum of compound SCO5

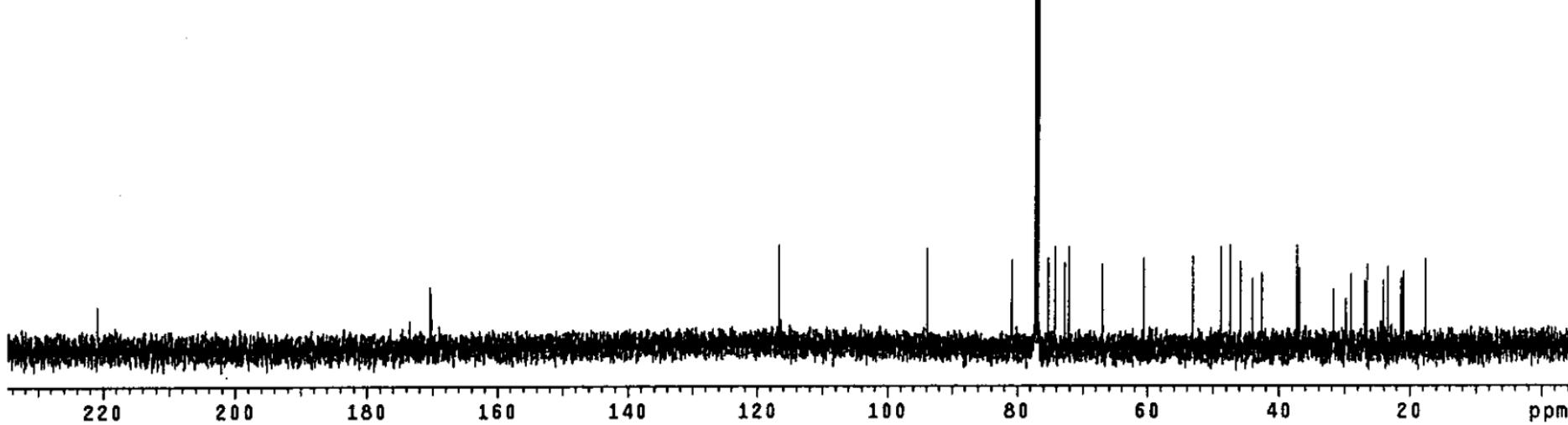


Figure 45 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound SCO5

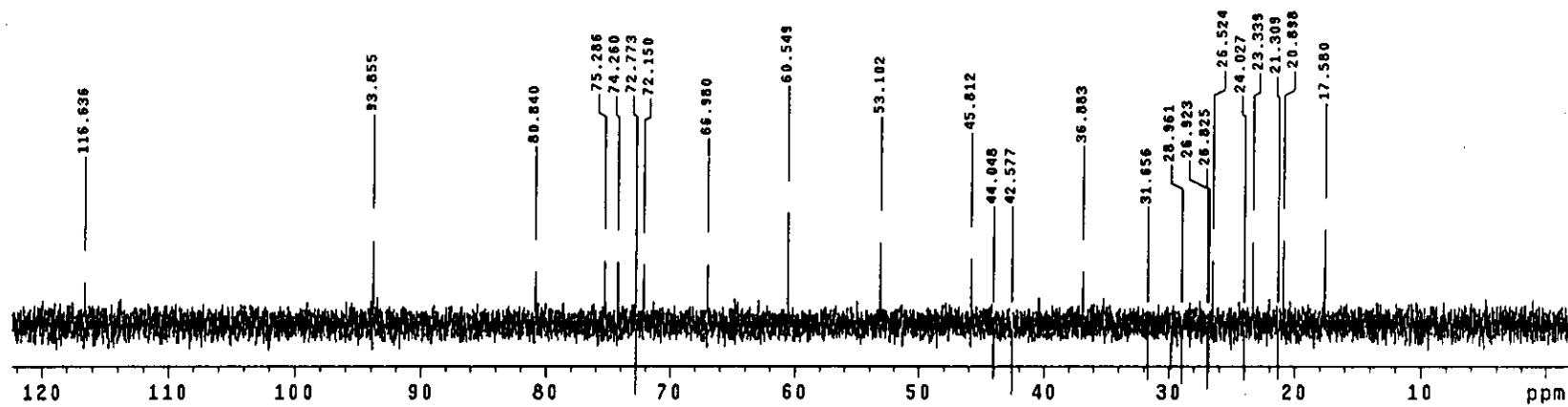


Figure 46 DEPT (CDCl₃) spectrum of compound SCO5

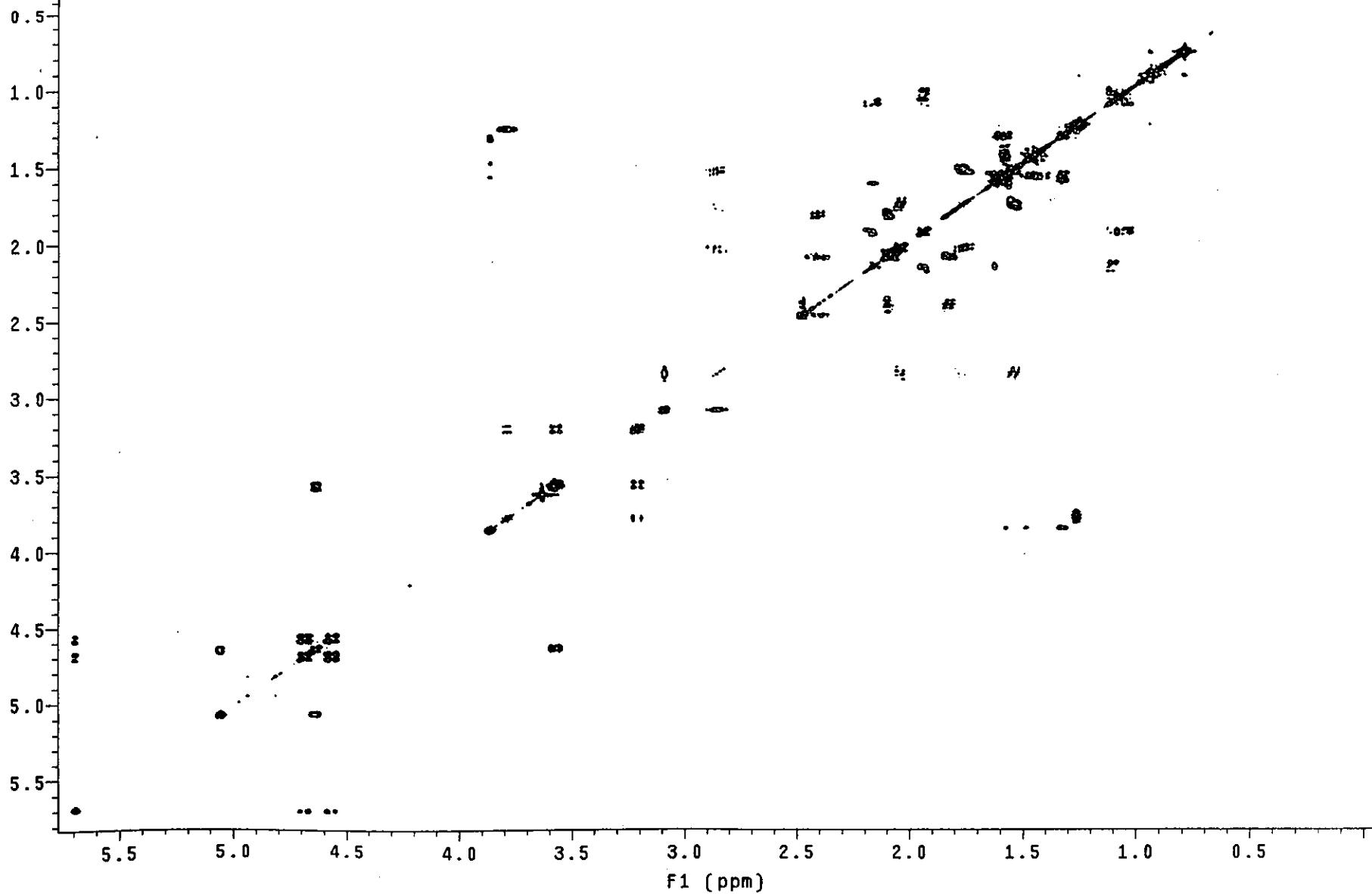


Figure 47 2D COSY spectrum of compound SCO5

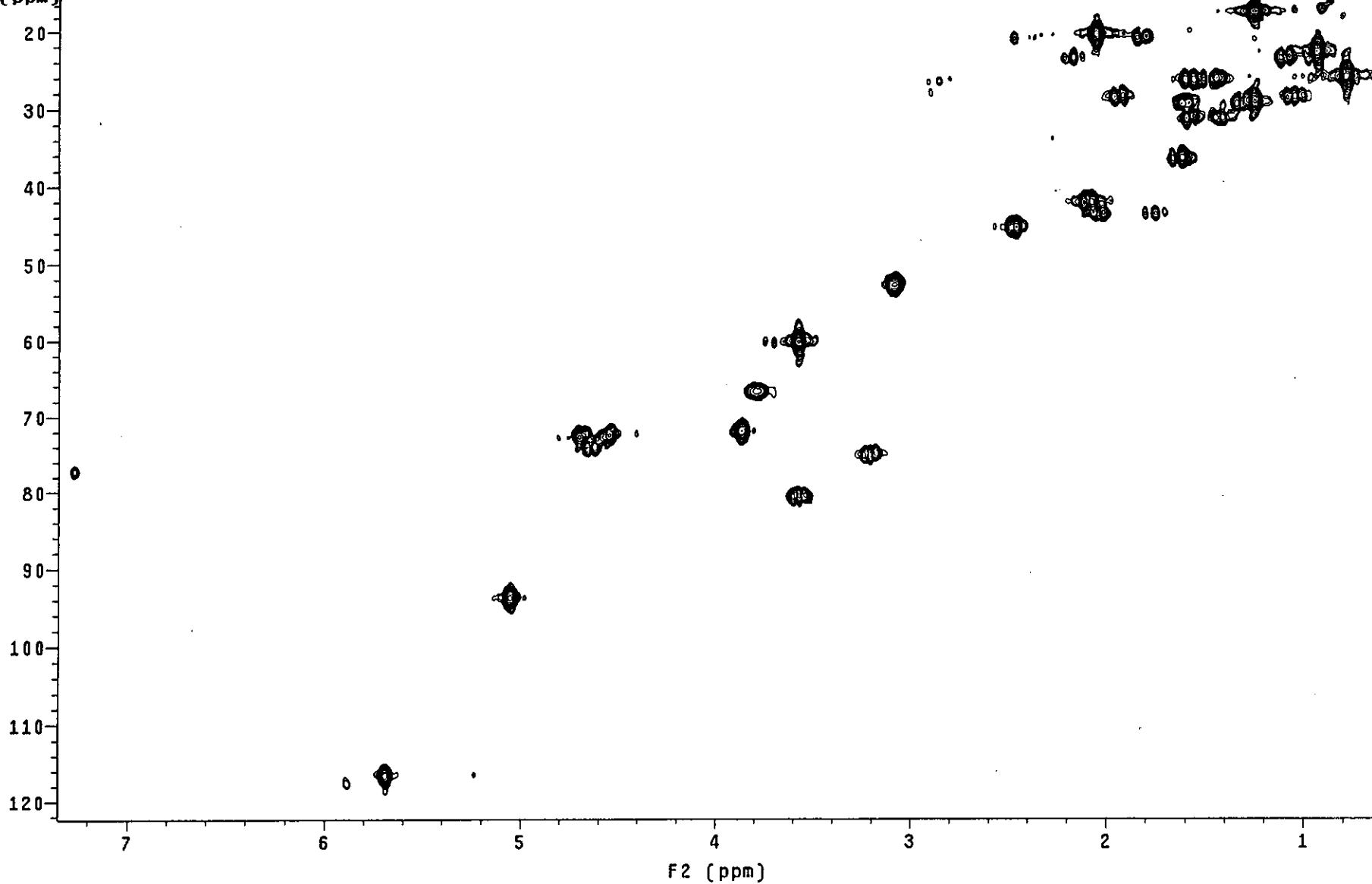


Figure 48 2D HMQC spectrum of compound SCO5

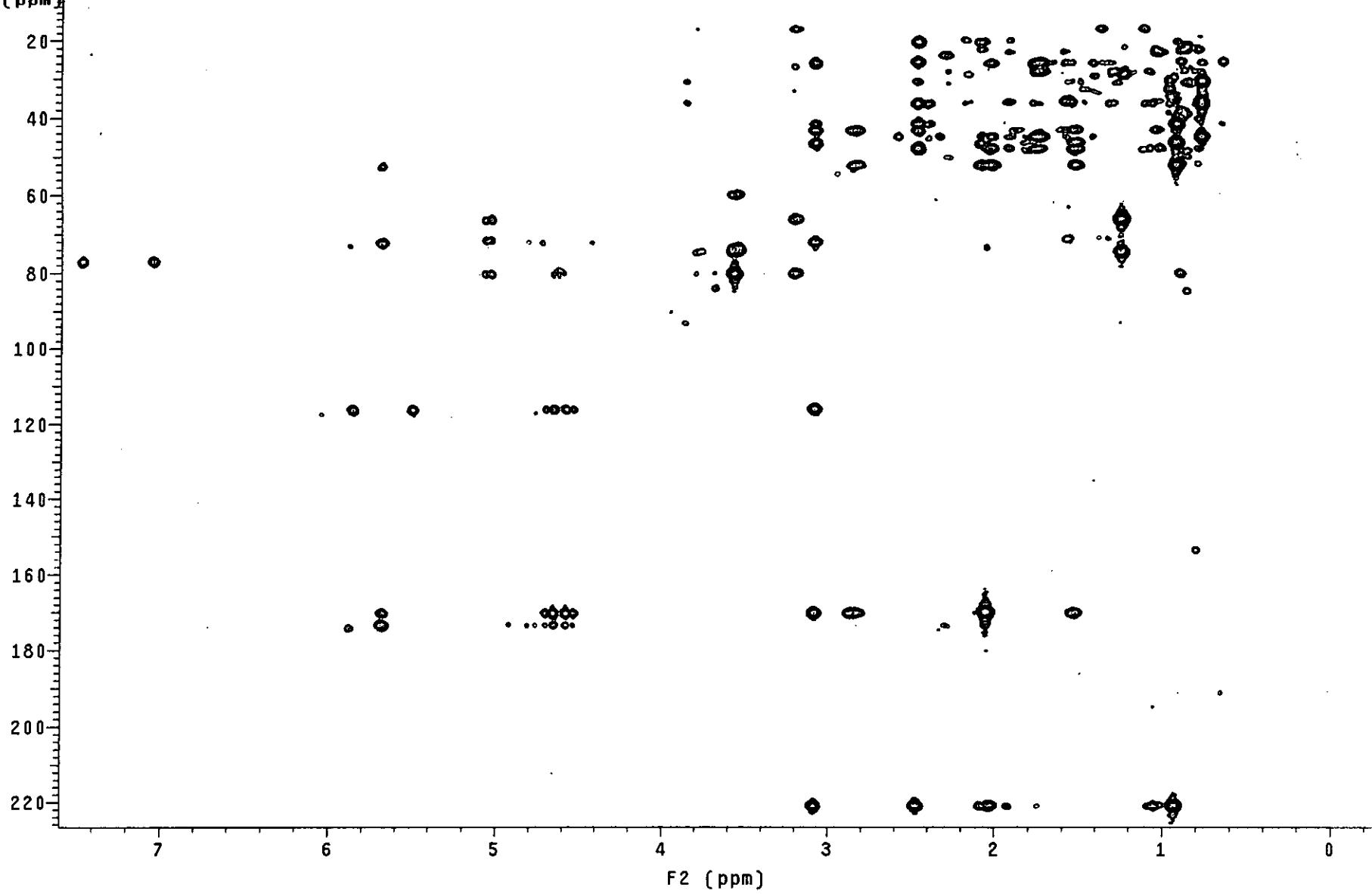


Figure 49 2D HMBC spectrum of compound SCO5

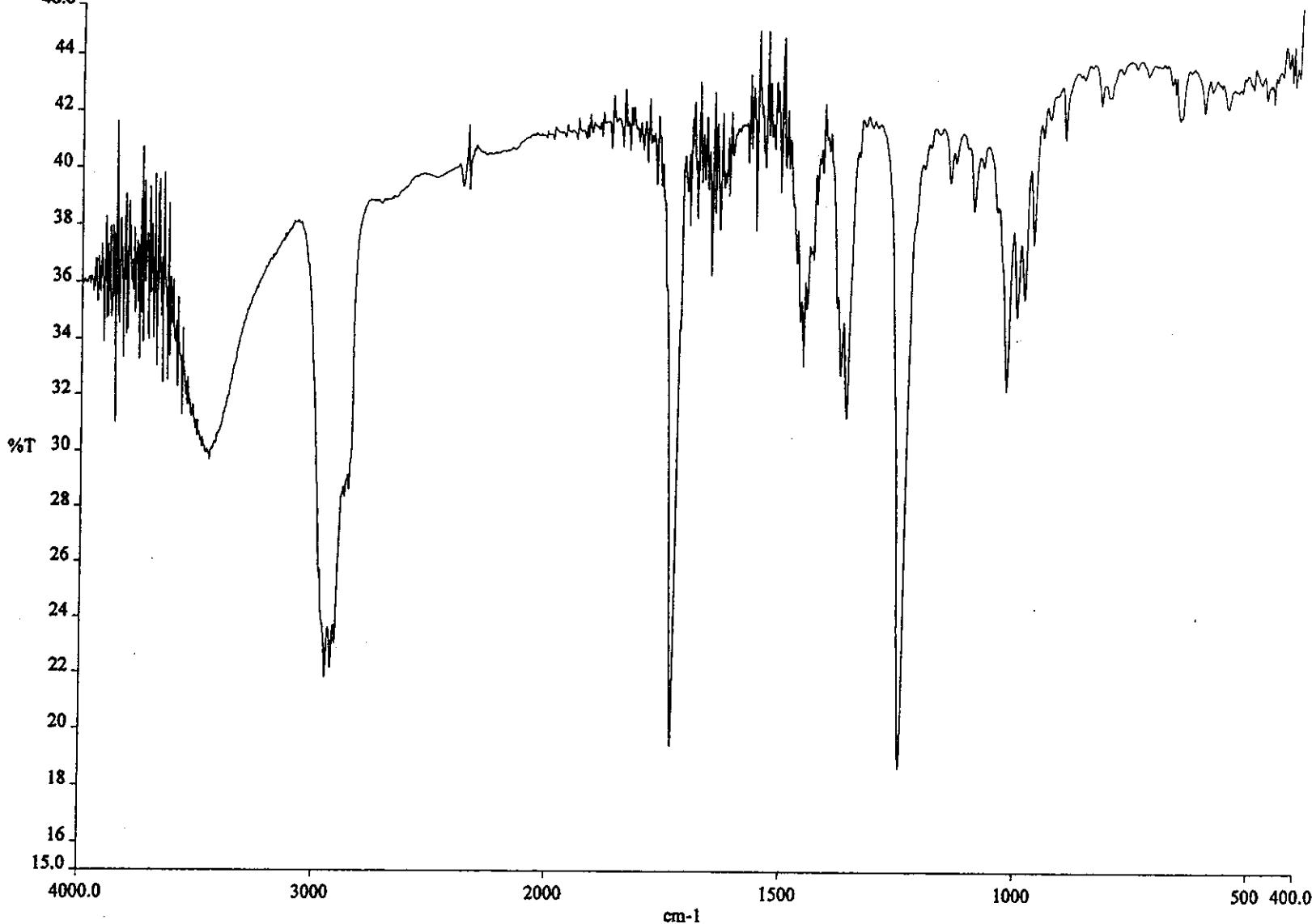


Figure 50 IR (KBr) spectrum of compound LCO1

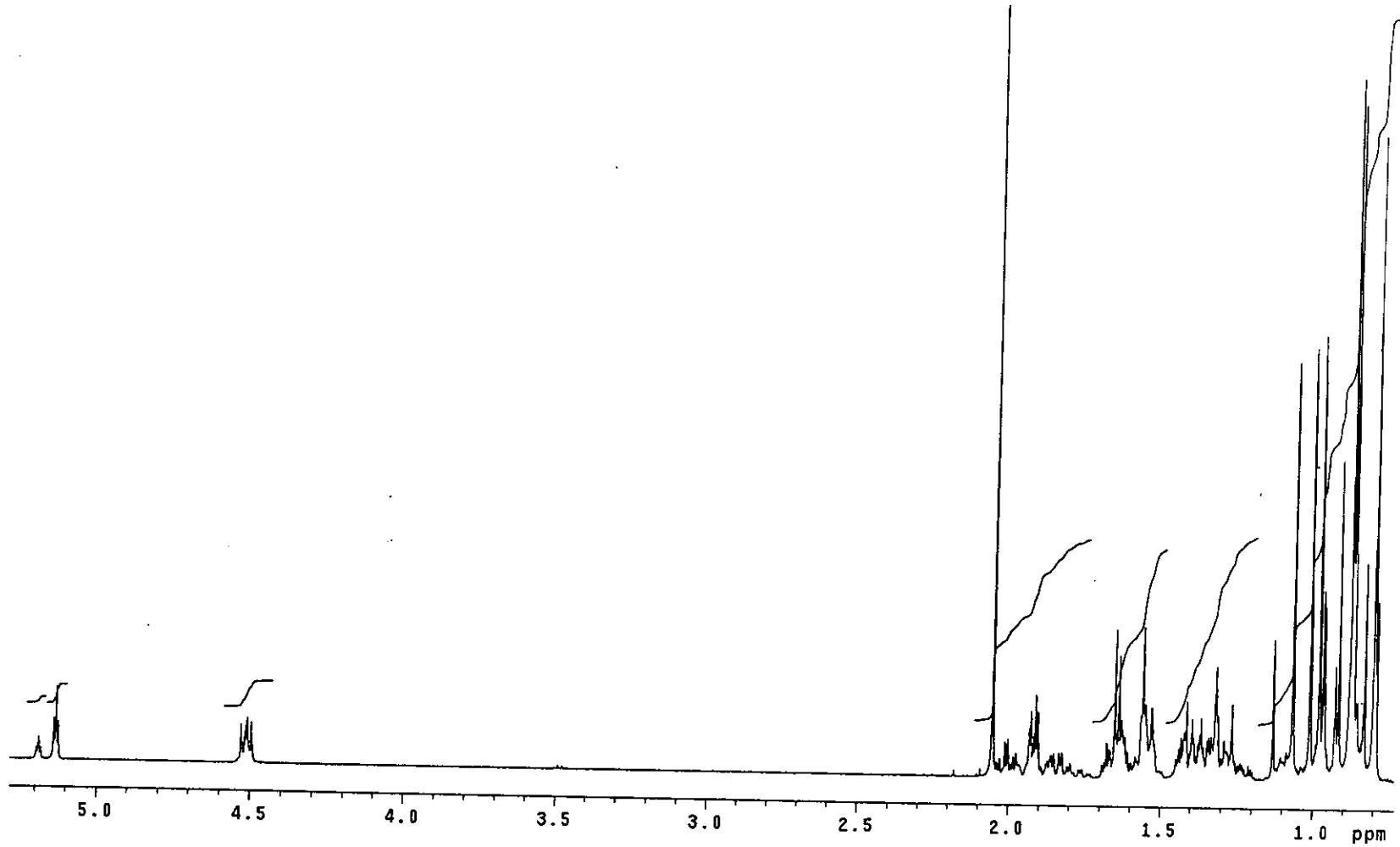


Figure 51 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO1

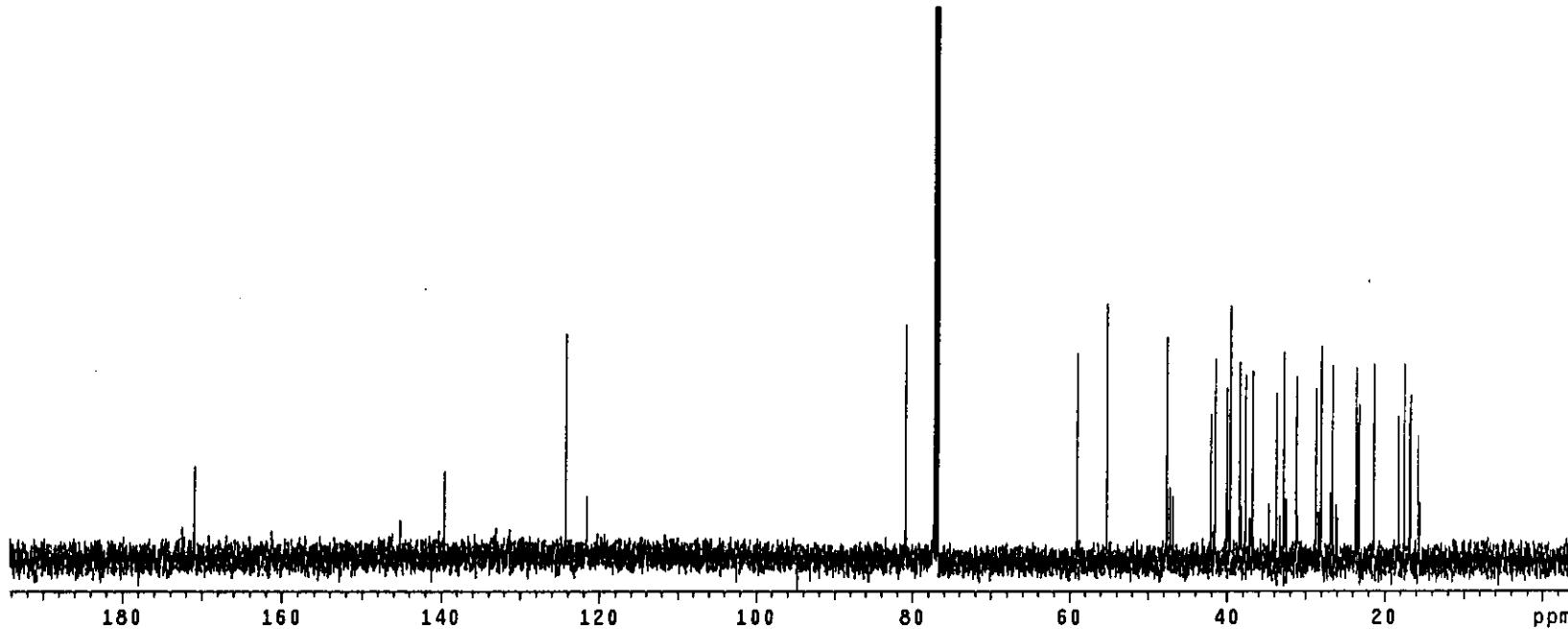


Figure 52 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO1

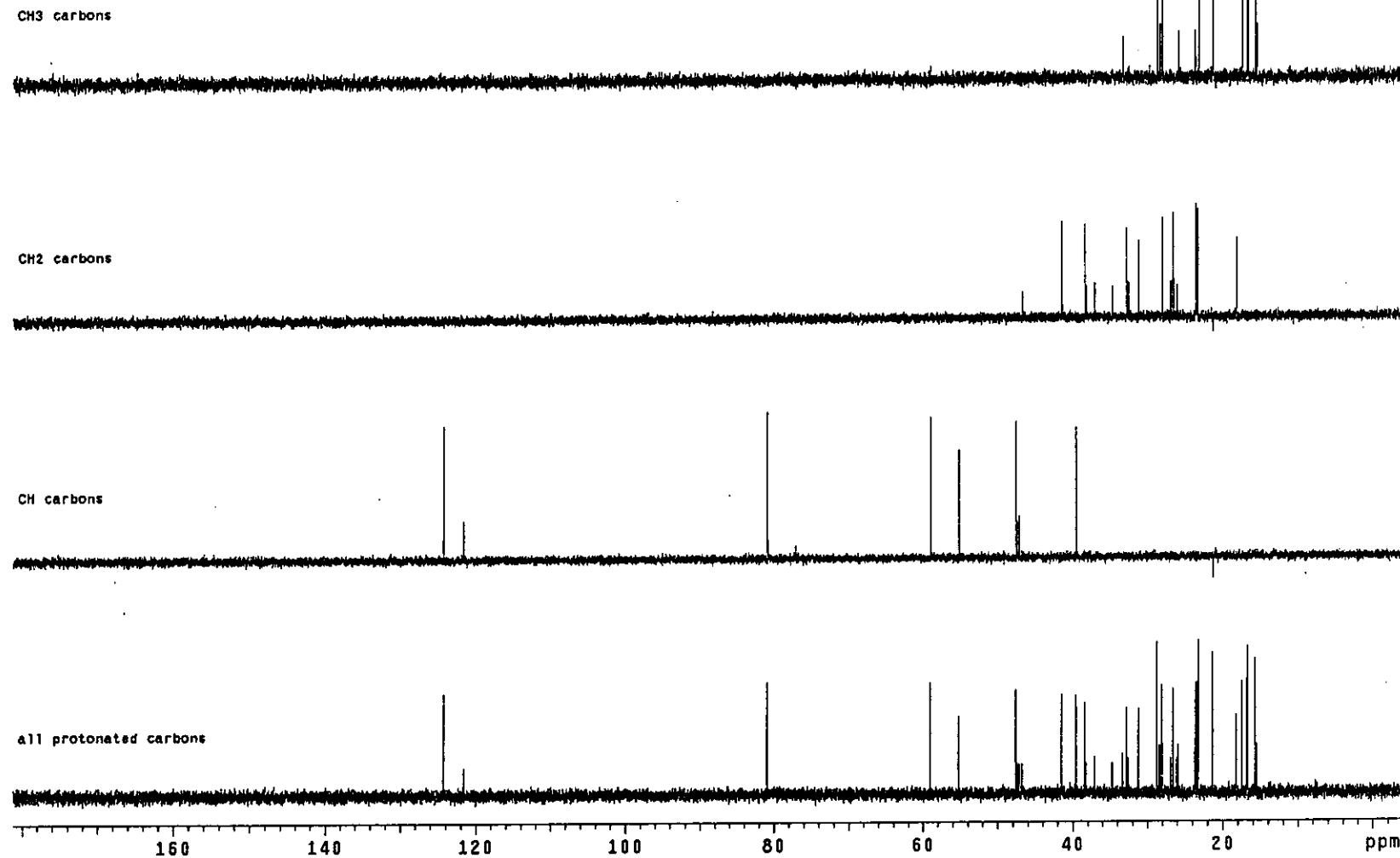


Figure 53 DEPT (CDCl_3) spectrum of compound LCO1

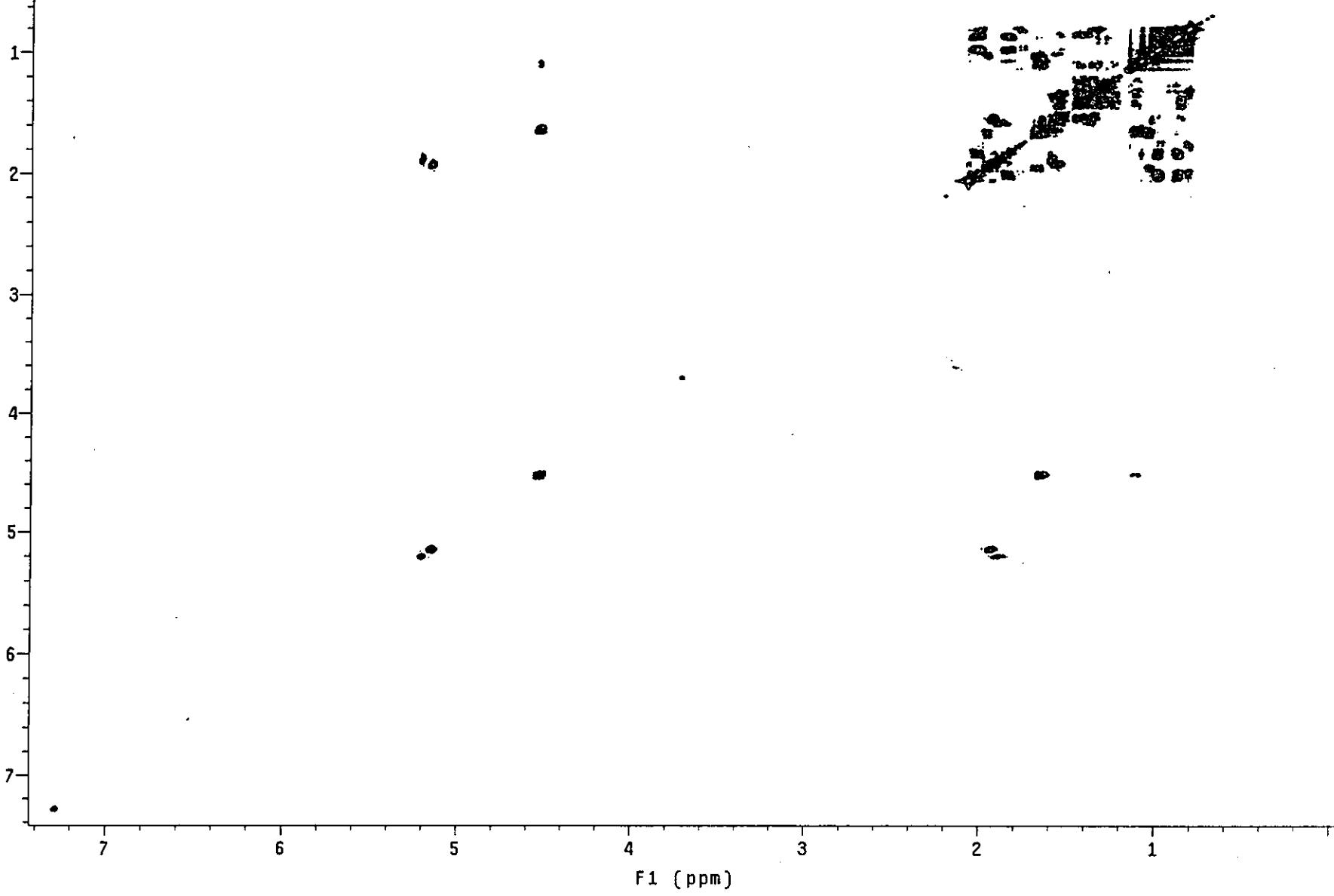


Figure 54 2D COSY spectrum of compound LCO1

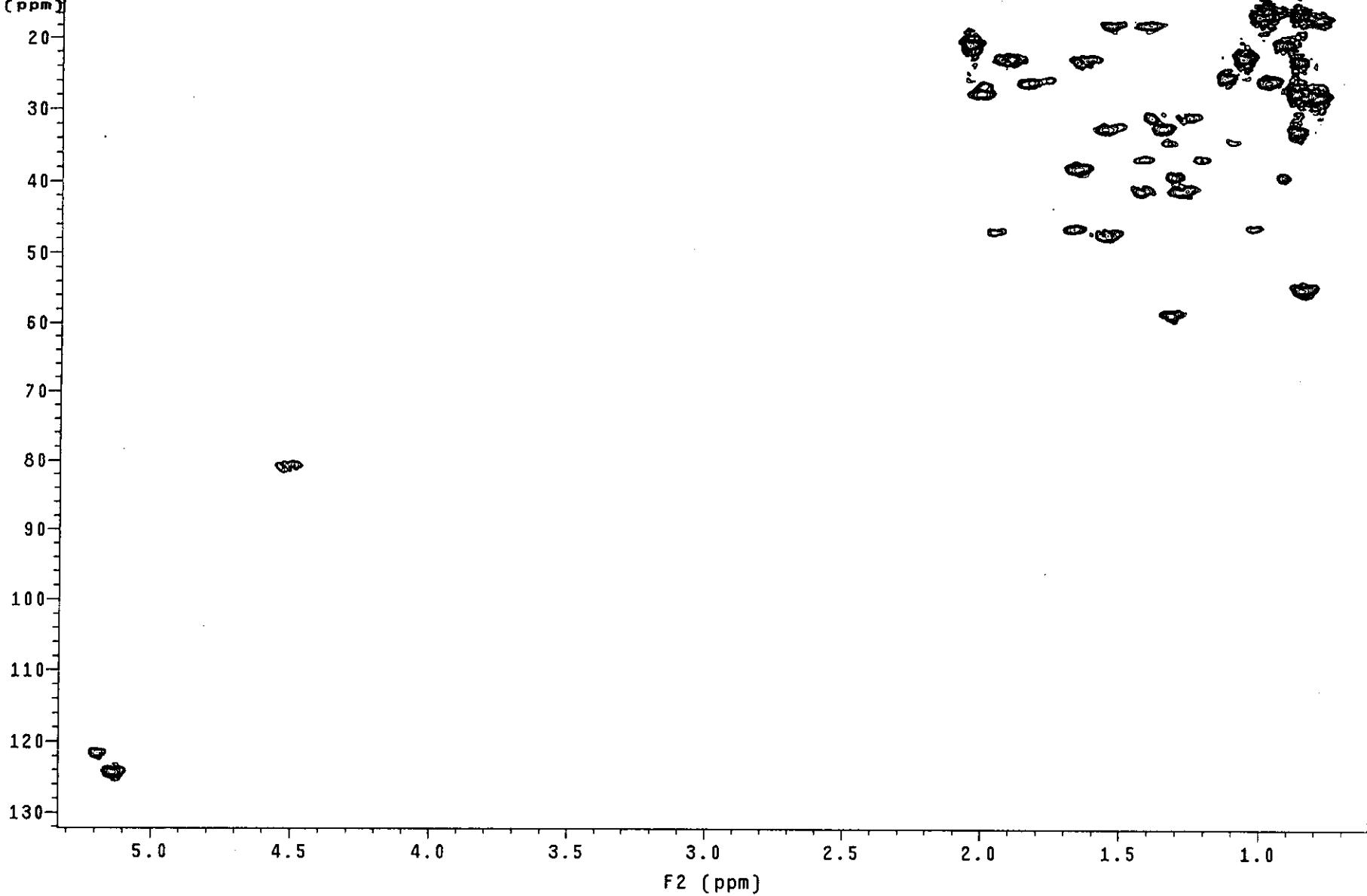


Figure 55 2D HMQC spectrum of compound LCO1

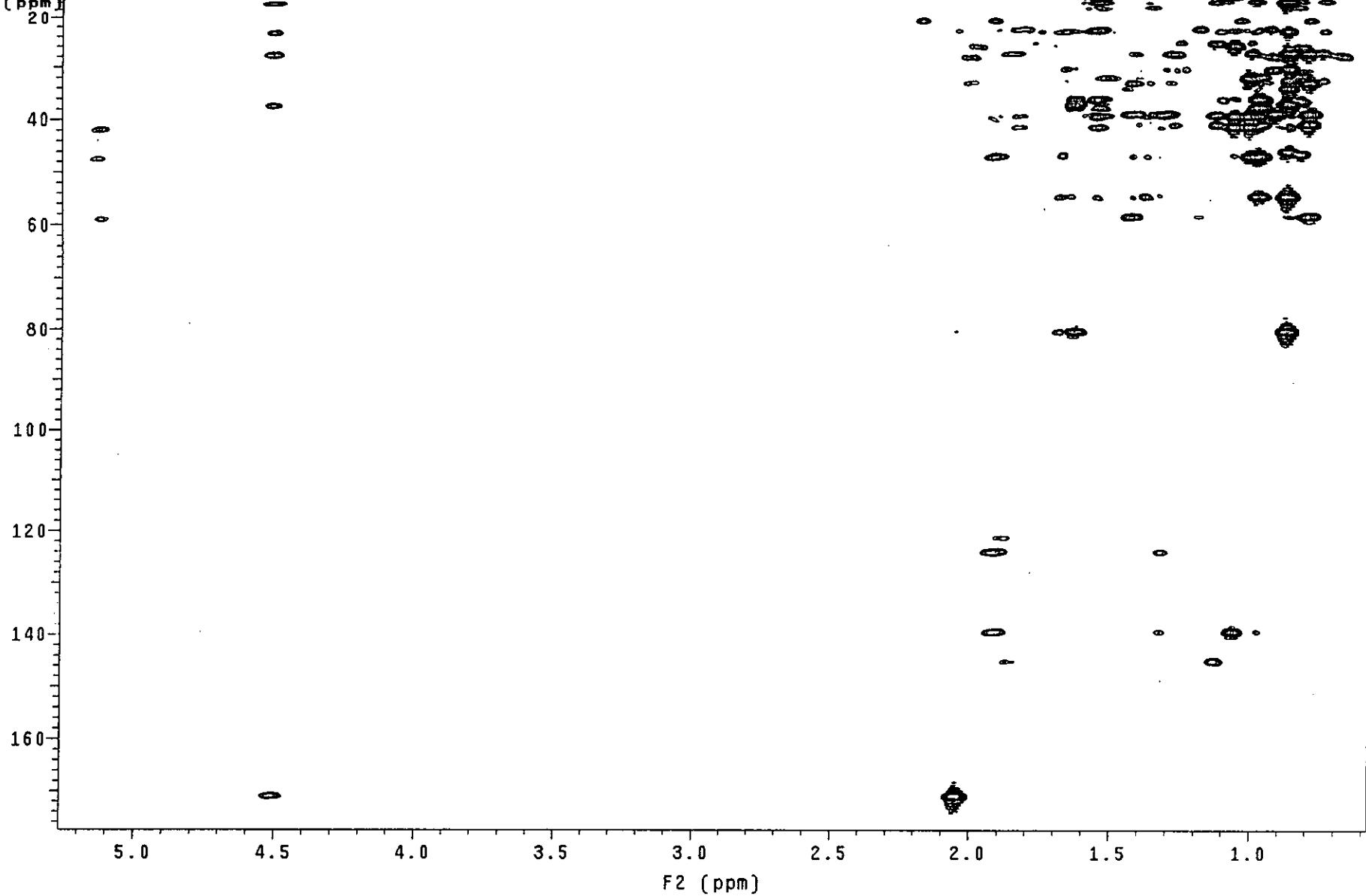


Figure 56 2D HMBC spectrum of compound LCO1

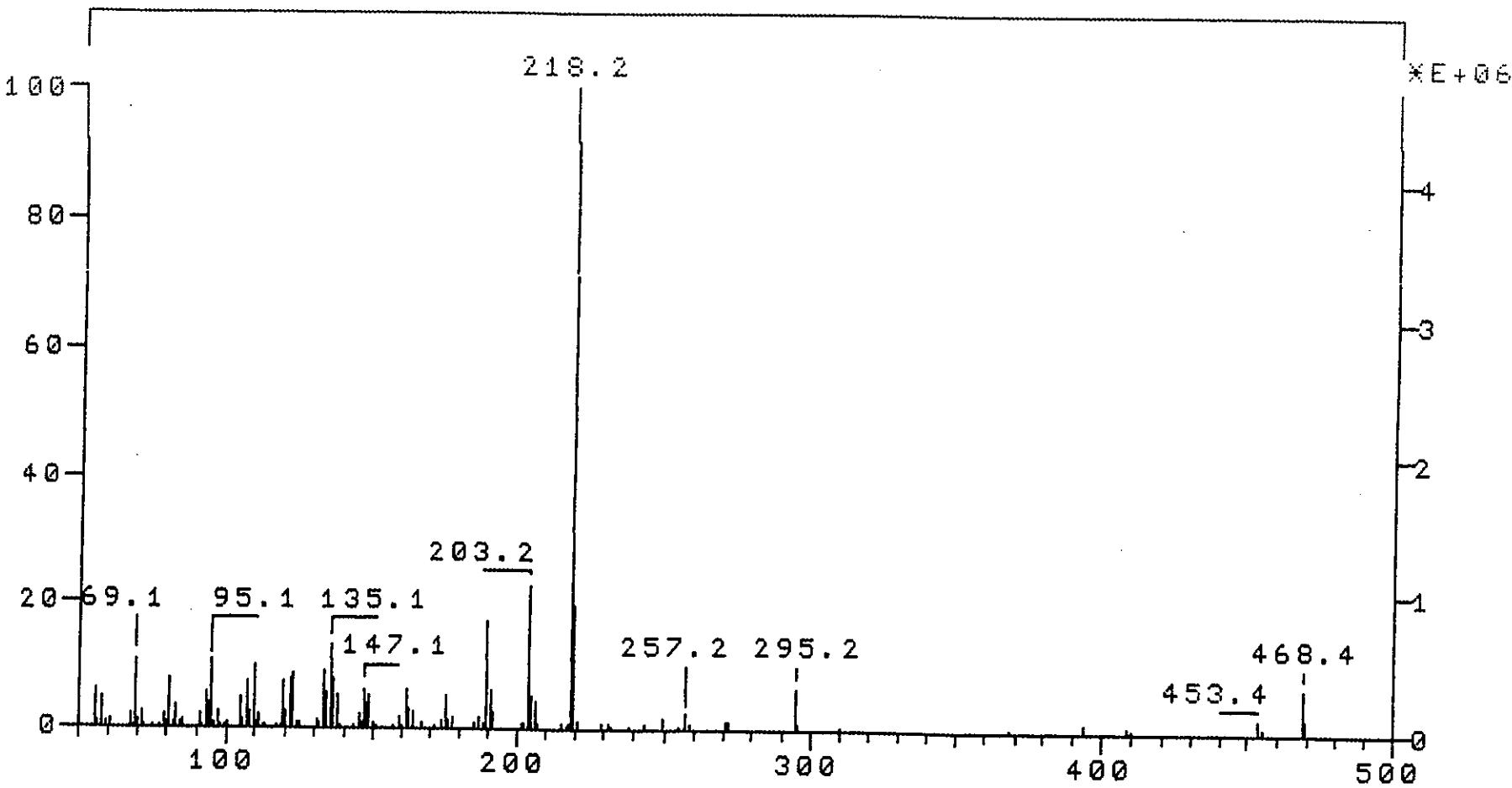


Figure 57 Mass spectrum of compound LCO1

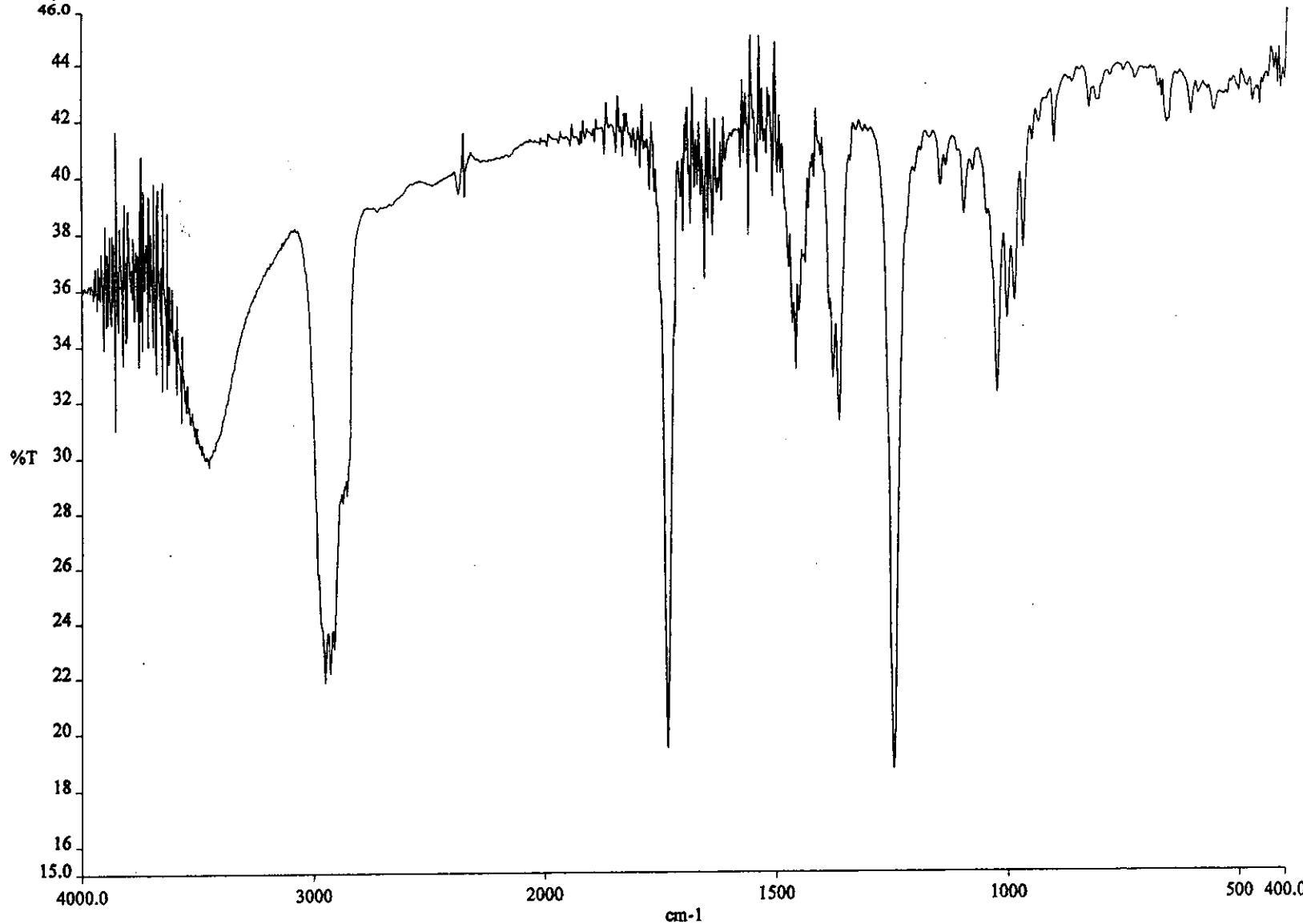


Figure 58 IR (KBr) spectrum of compound LCO₂

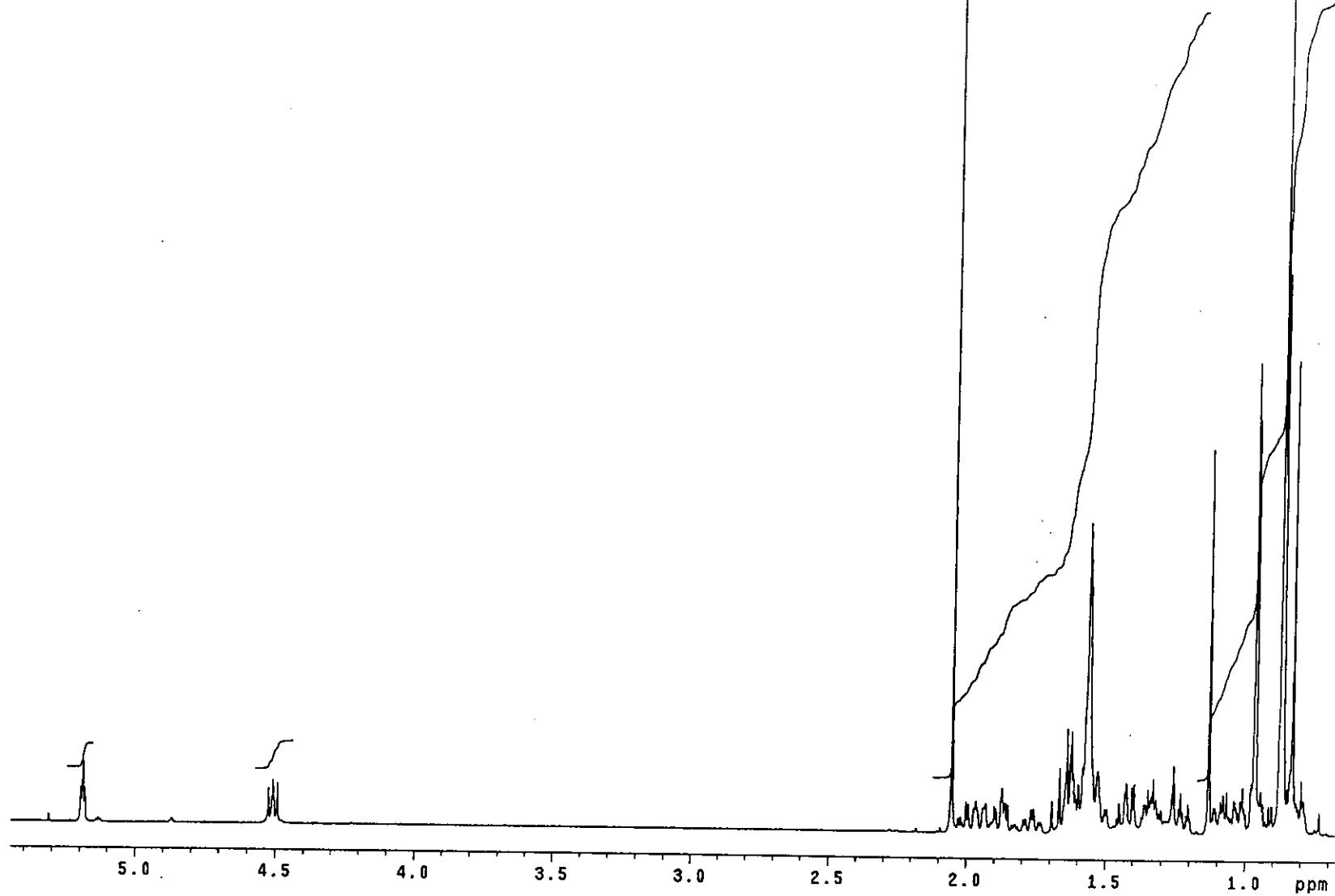


Figure 59 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO₂

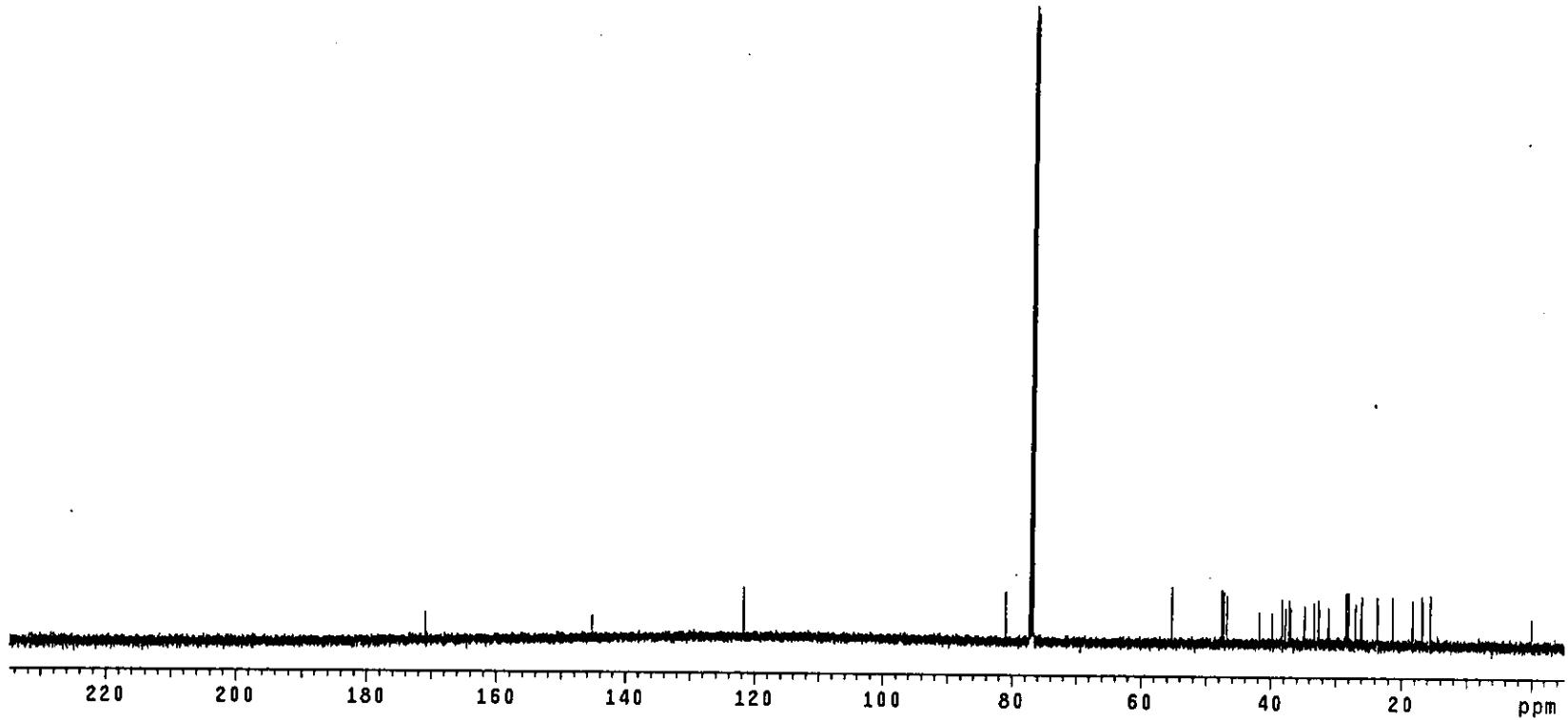


Figure 60 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO₂

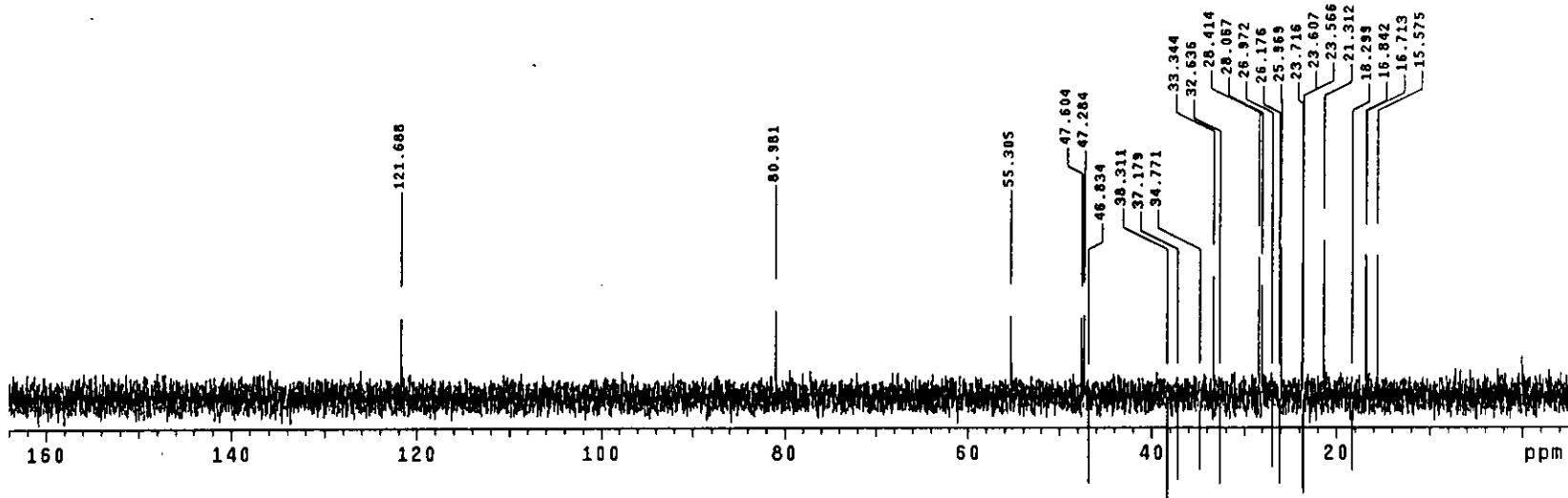


Figure 61 DEPT (CDCl₃) spectrum of compound LCO2

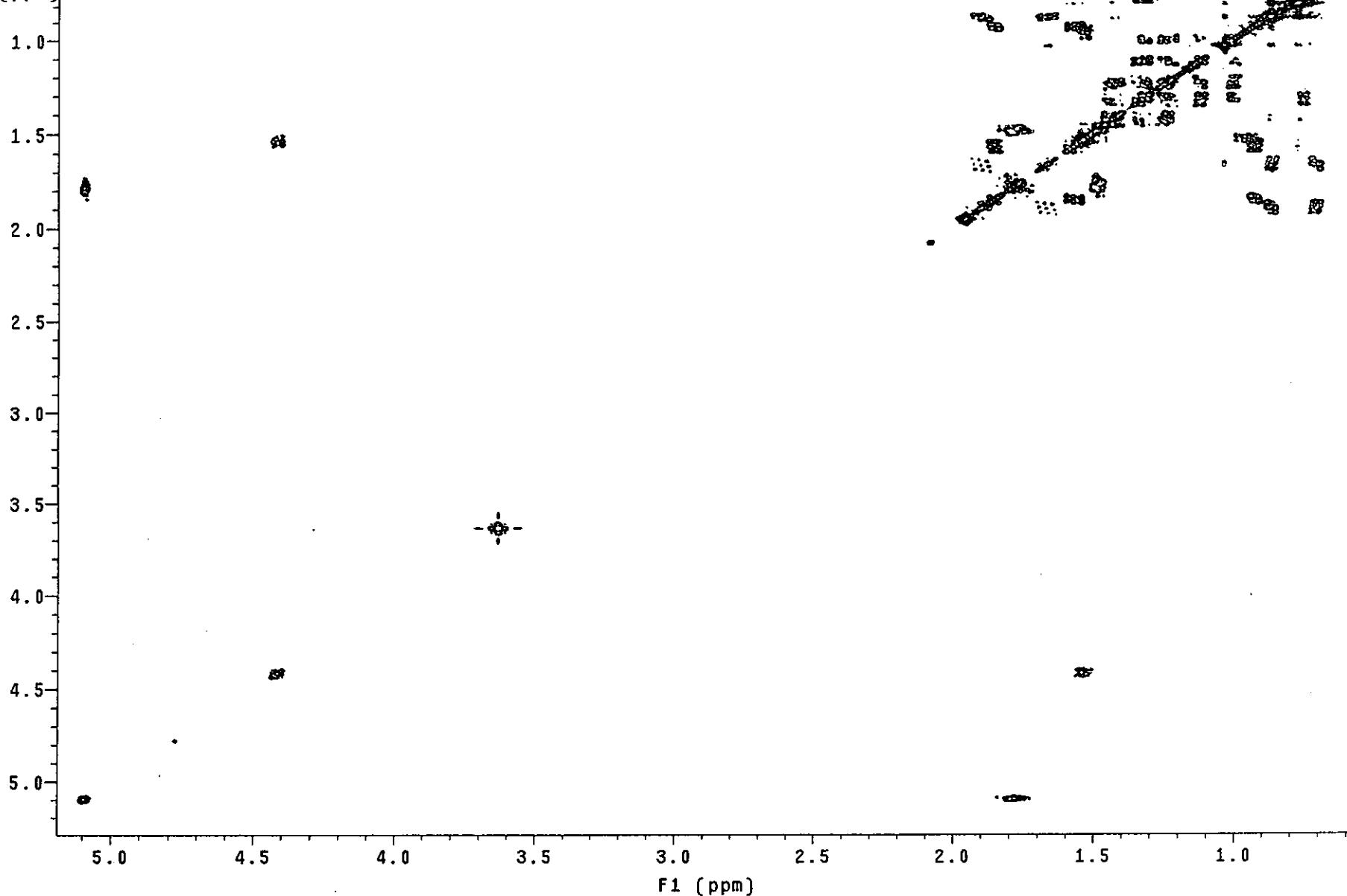


Figure 62 2D COSY spectrum of compound LCO2

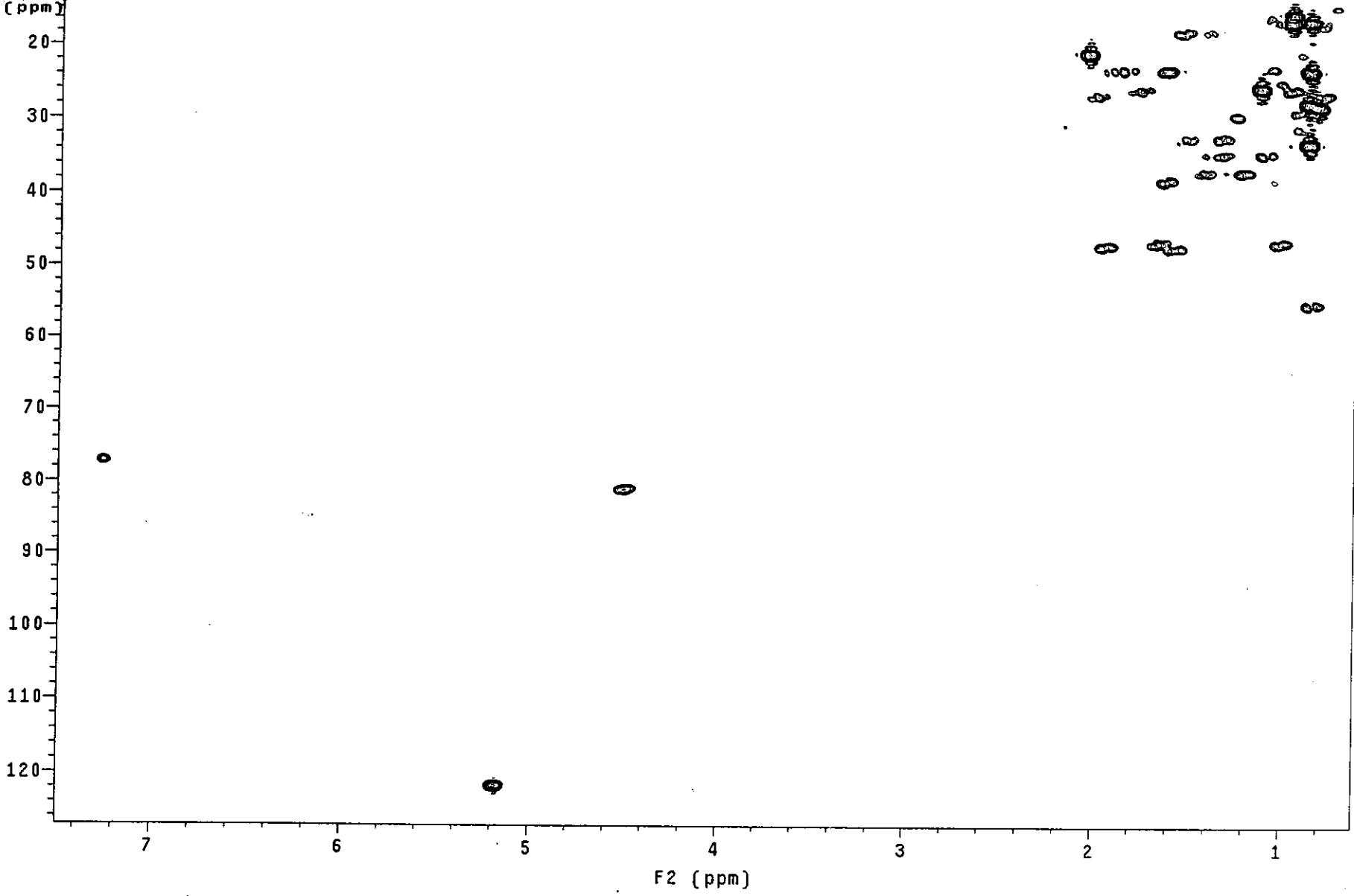


Figure 63 2D HMQC spectrum of compound LCO₂

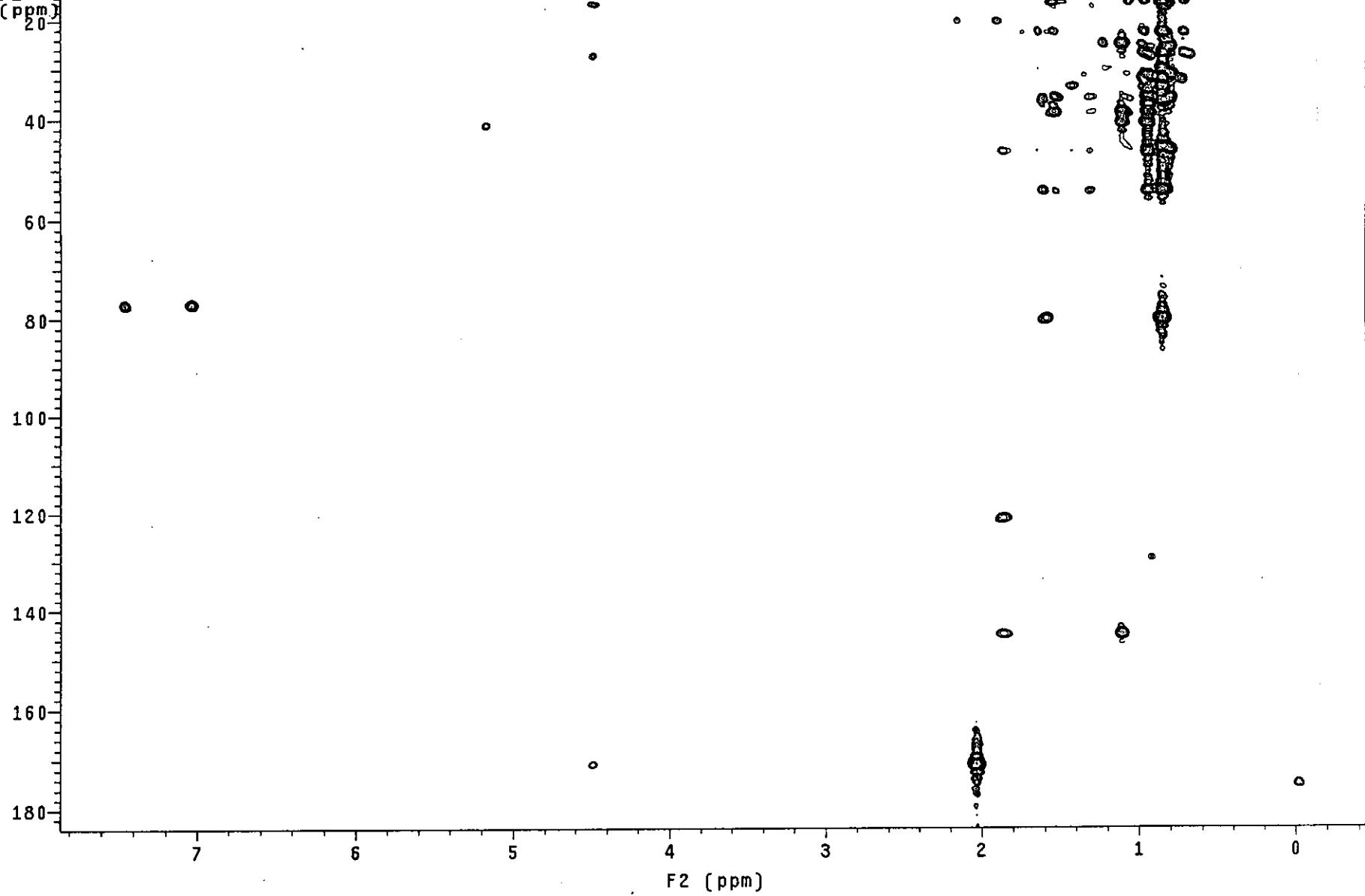


Figure 64 2D HMBC spectrum of compound LCO₂

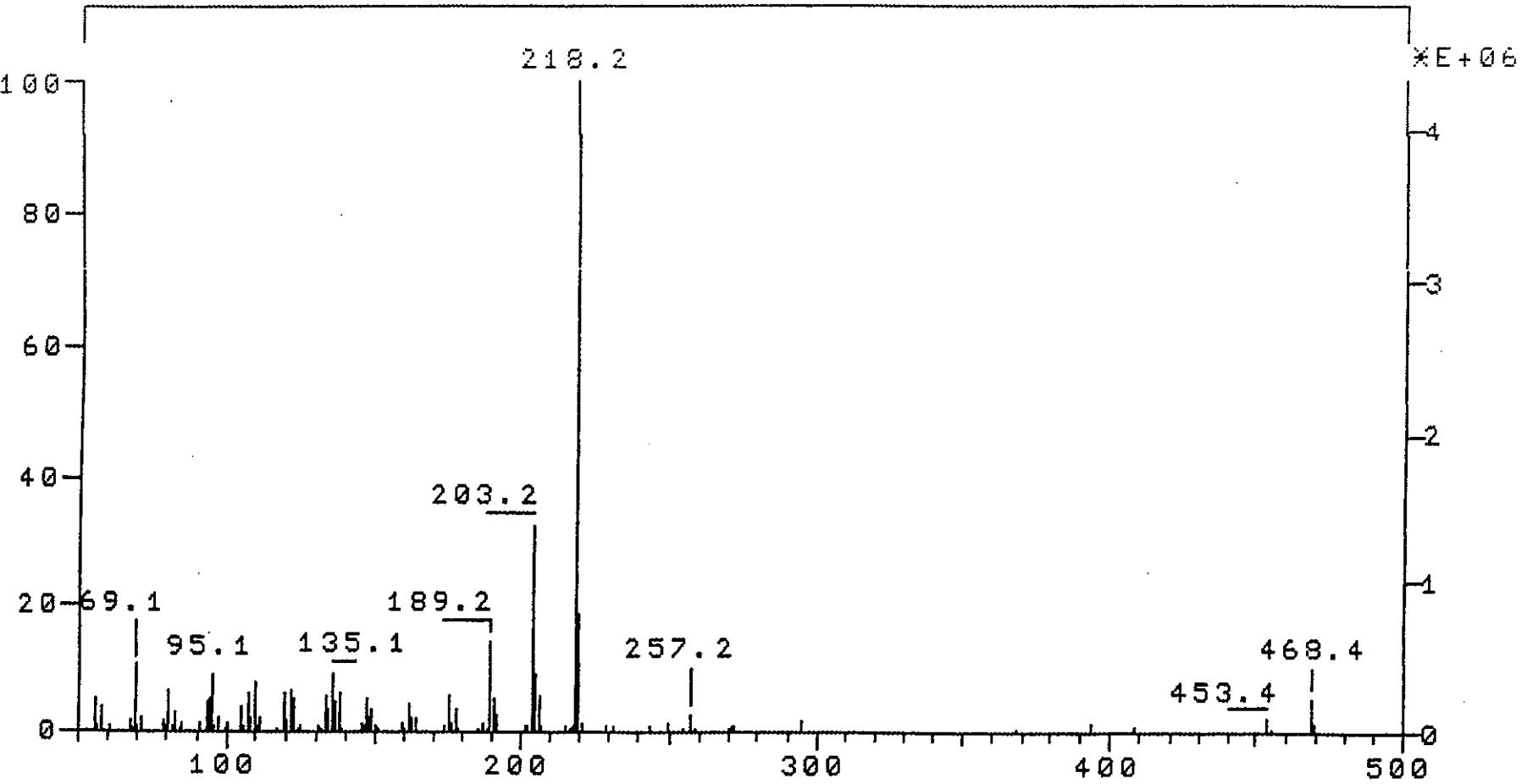


Figure 65 Mass spectrum of compound LCO₂

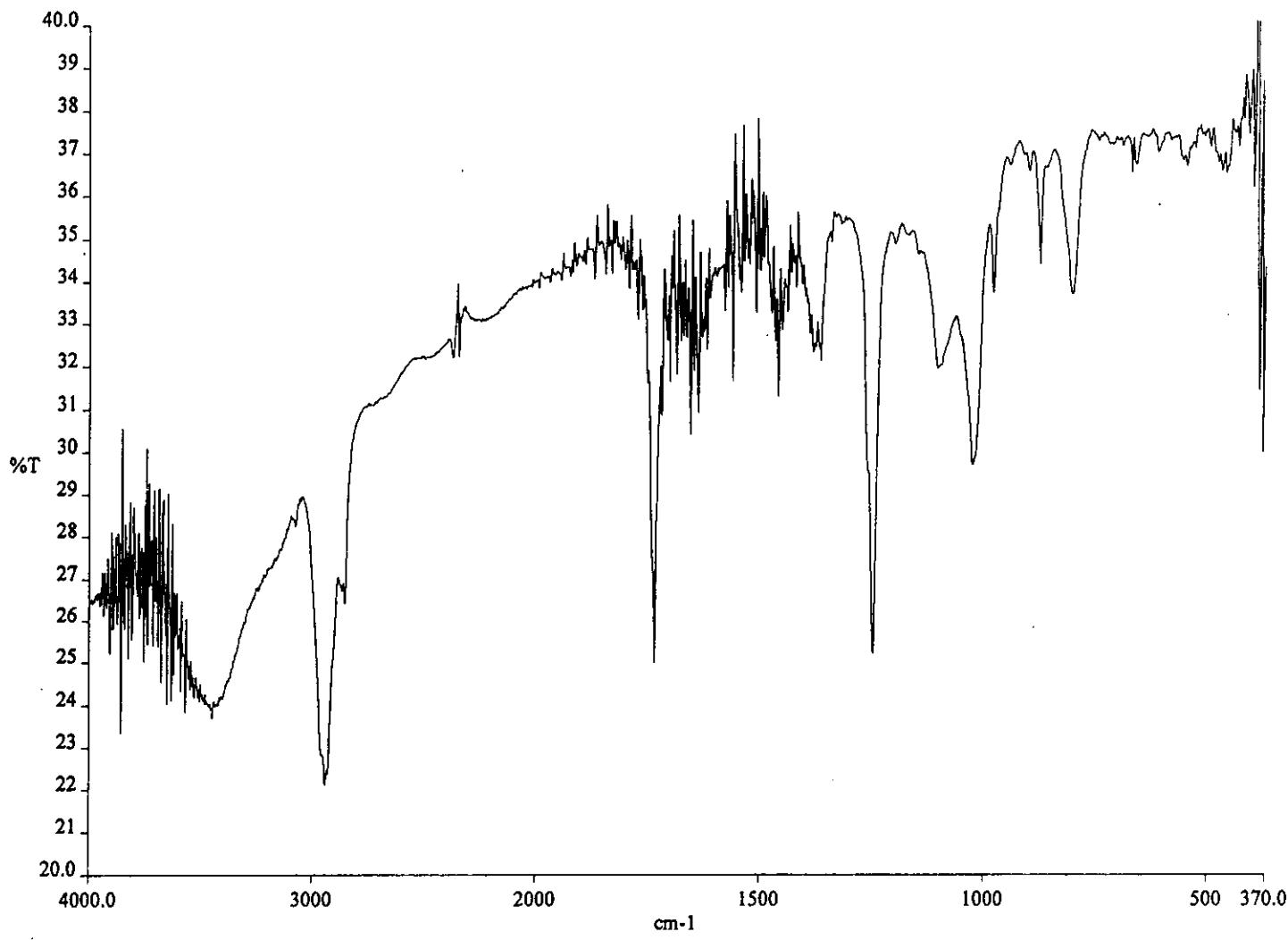


Figure 66 IR (KBr) spectrum of compound LCO₃

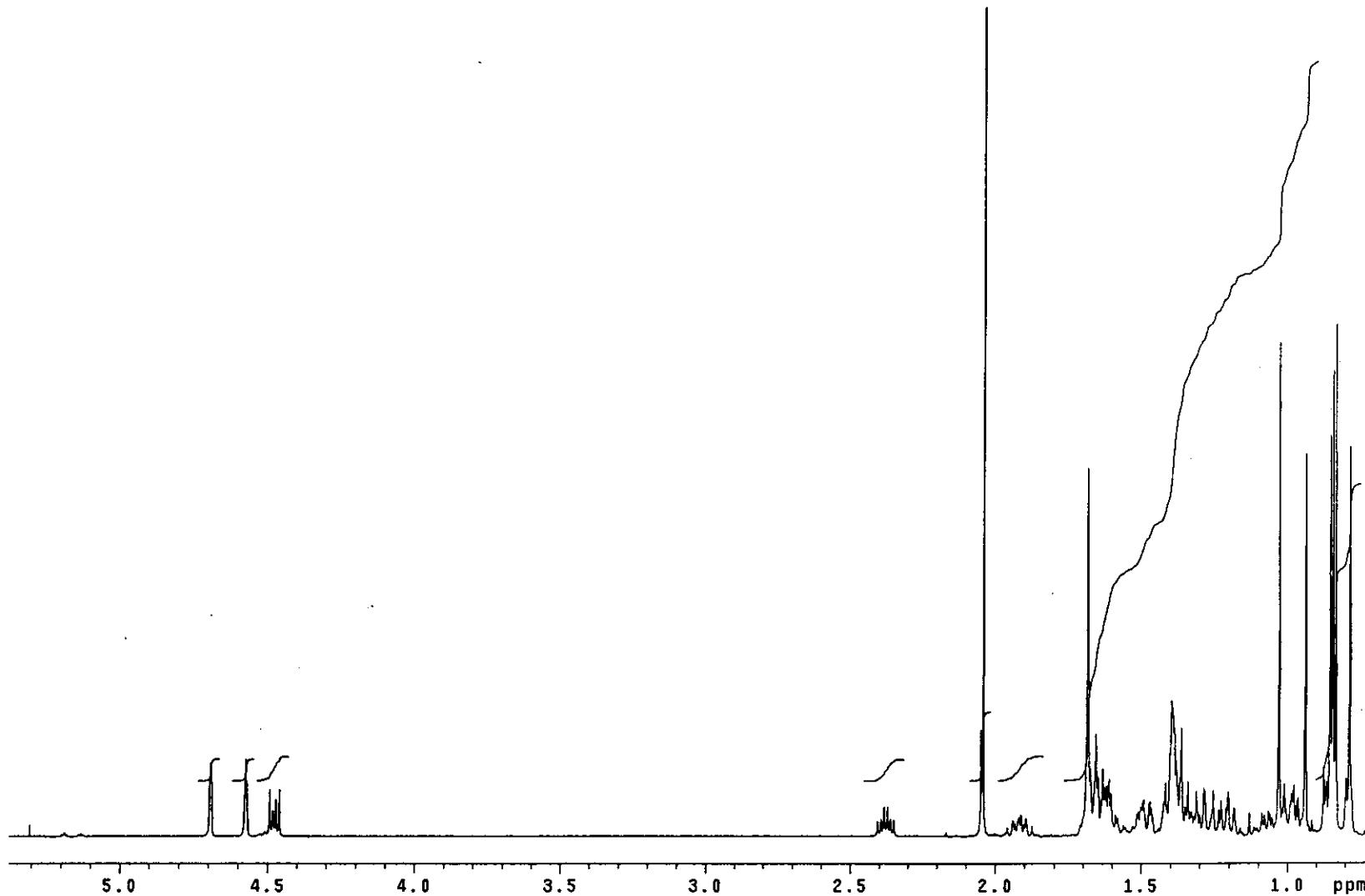


Figure 67 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO3

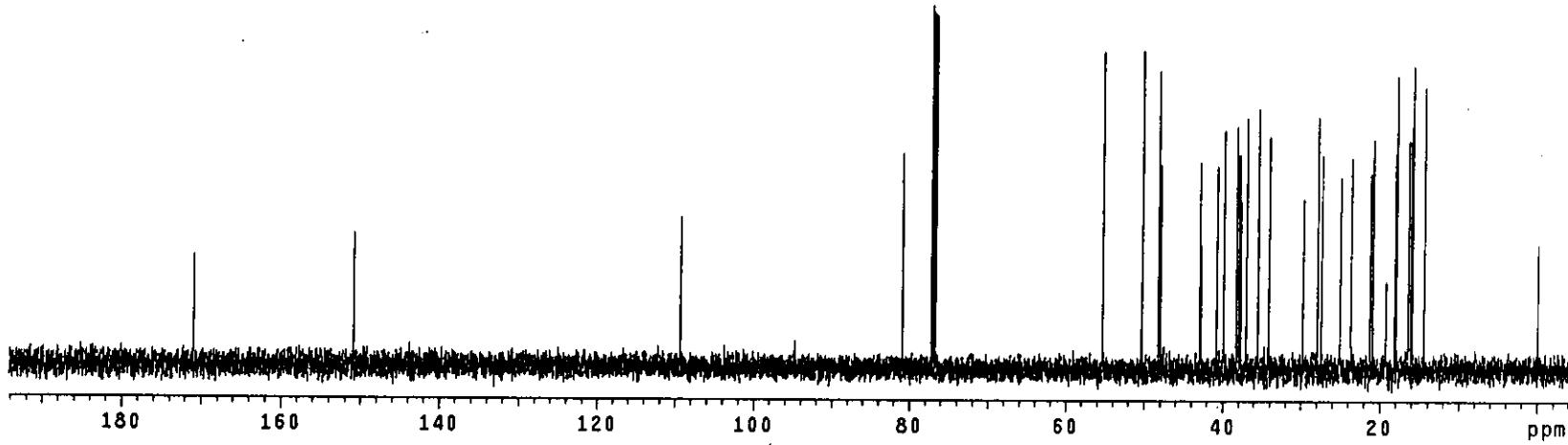


Figure 68 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO3

CH₃ carbons

CH₂ carbons

CH carbons

all protonated carbons



Figure 69 DEPT (CDCl₃) spectrum of compound LCO3

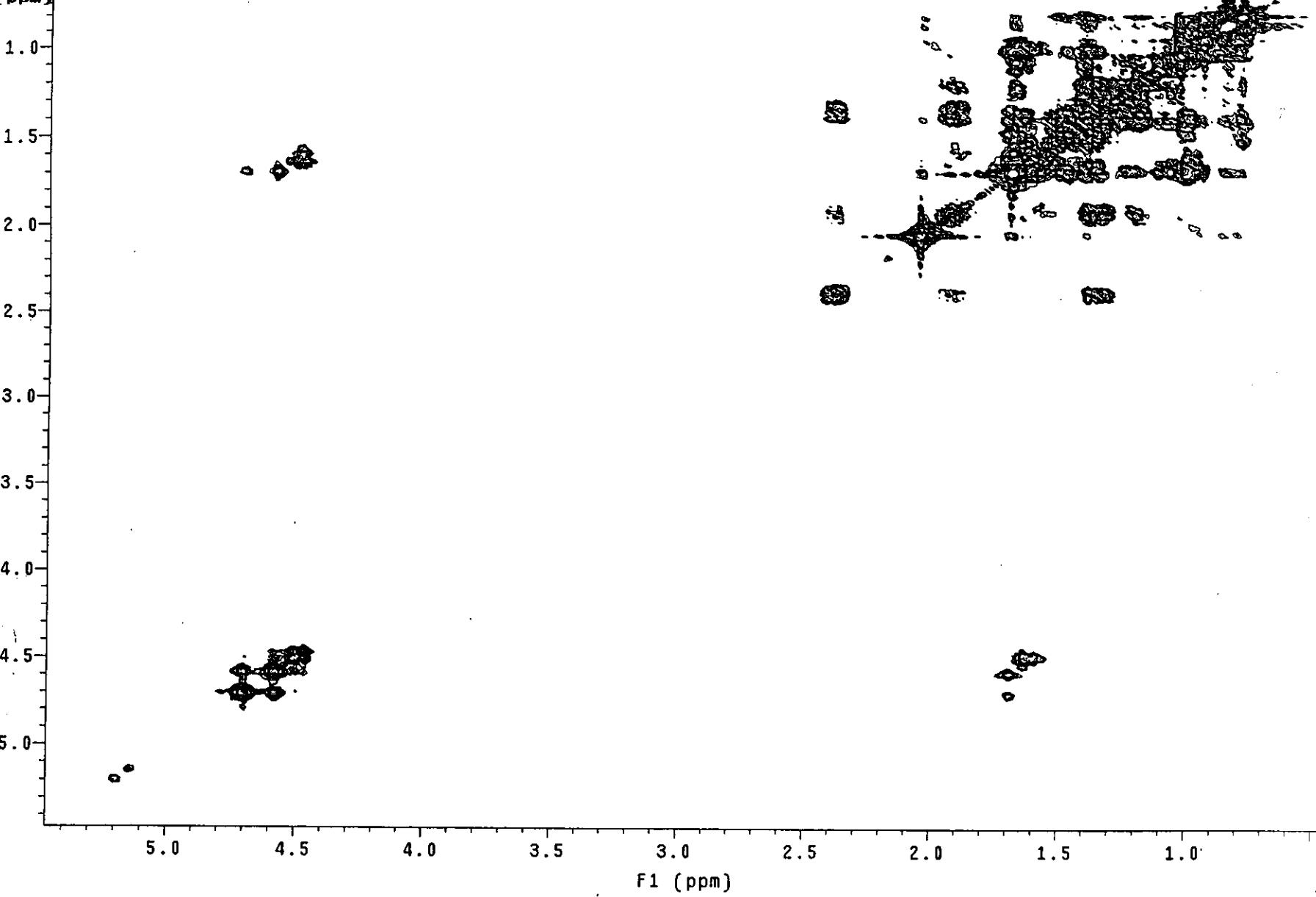


Figure 70 2D COSY spectrum of compound LCO3

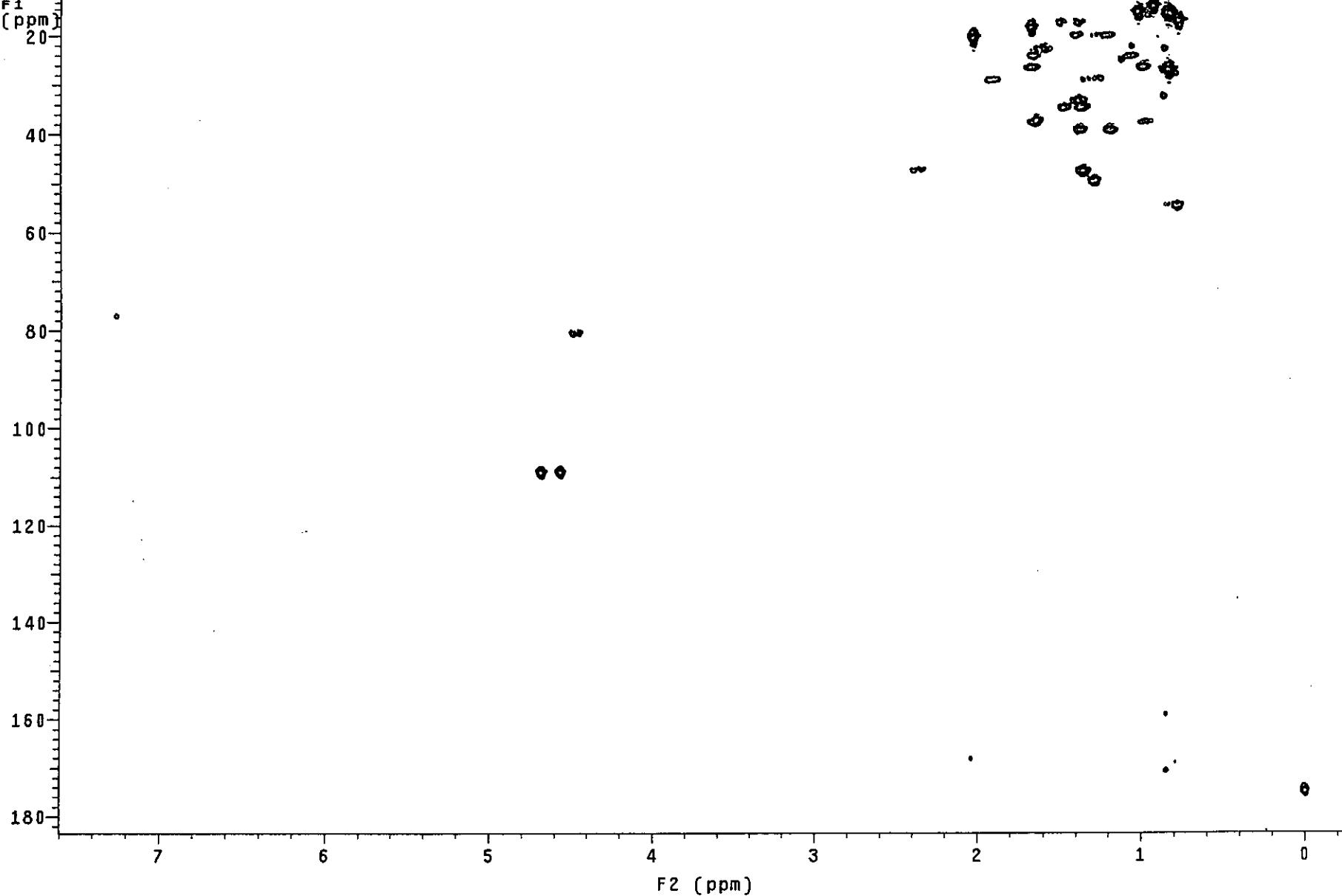


Figure 71 2D HMQC spectrum of compound LCO₃

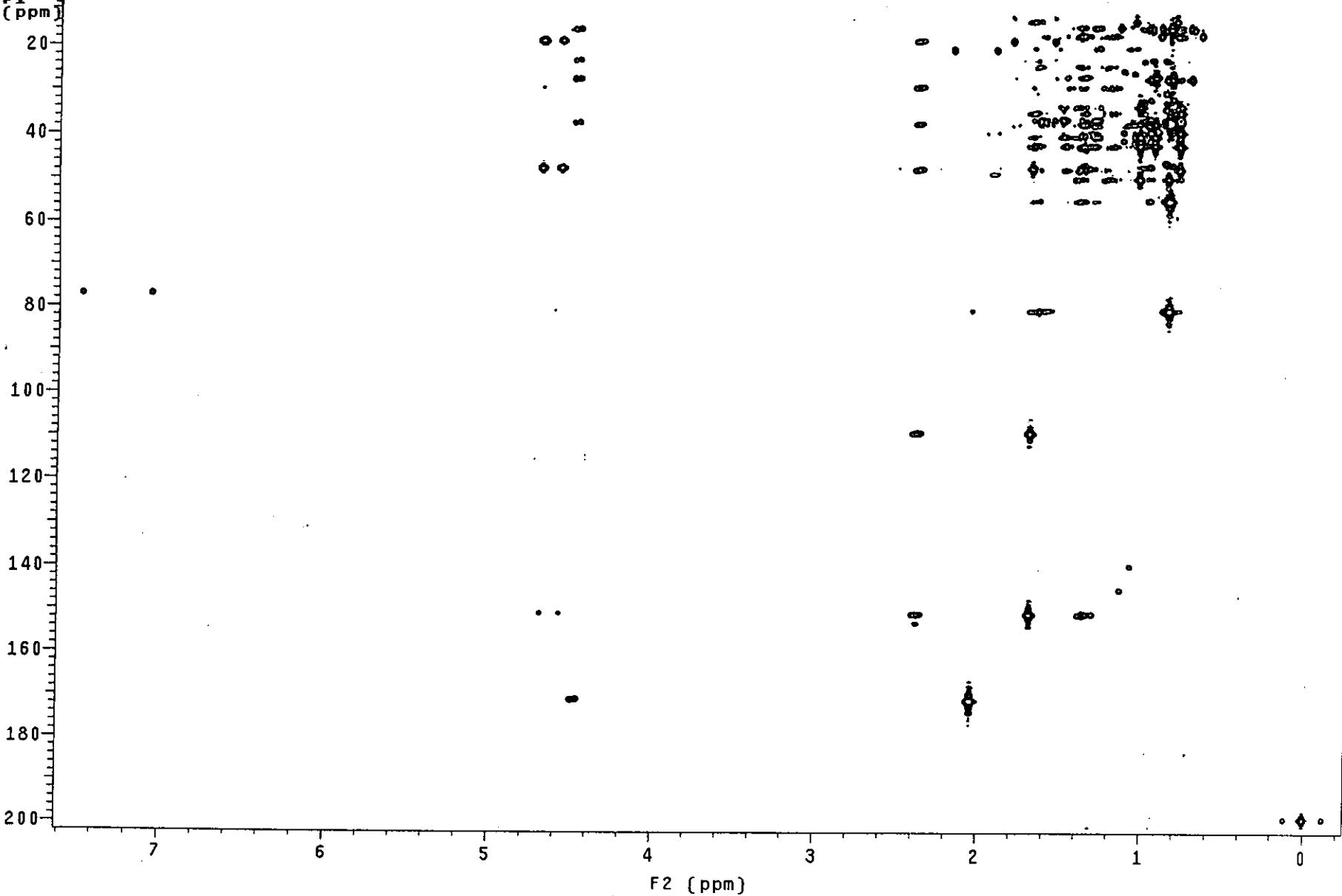


Figure 72 2D HMBC spectrum of compound LCO3

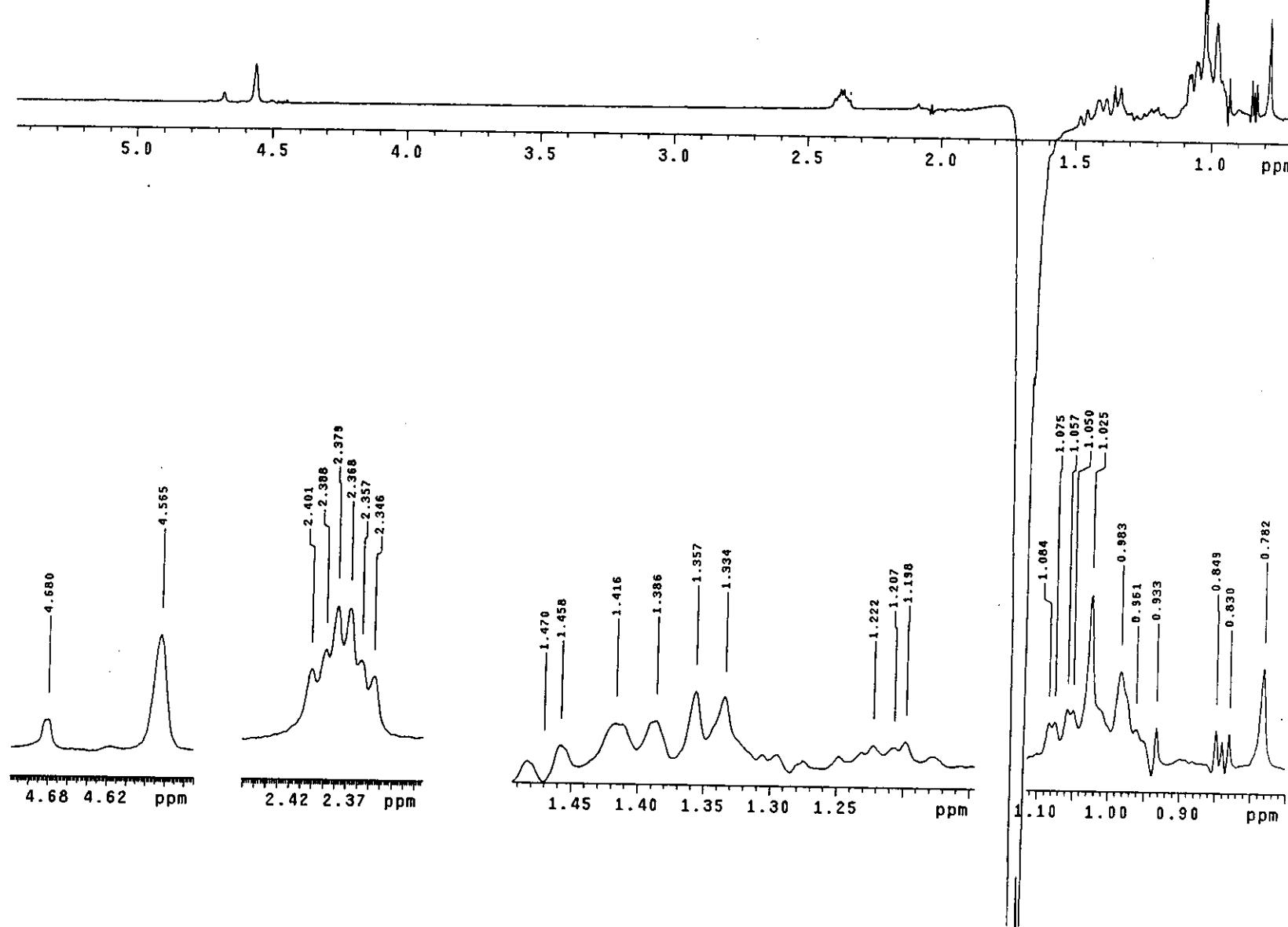


Figure 73 NOE spectrum of compound LCO3 (Irradiated at δ 1.68, (1))

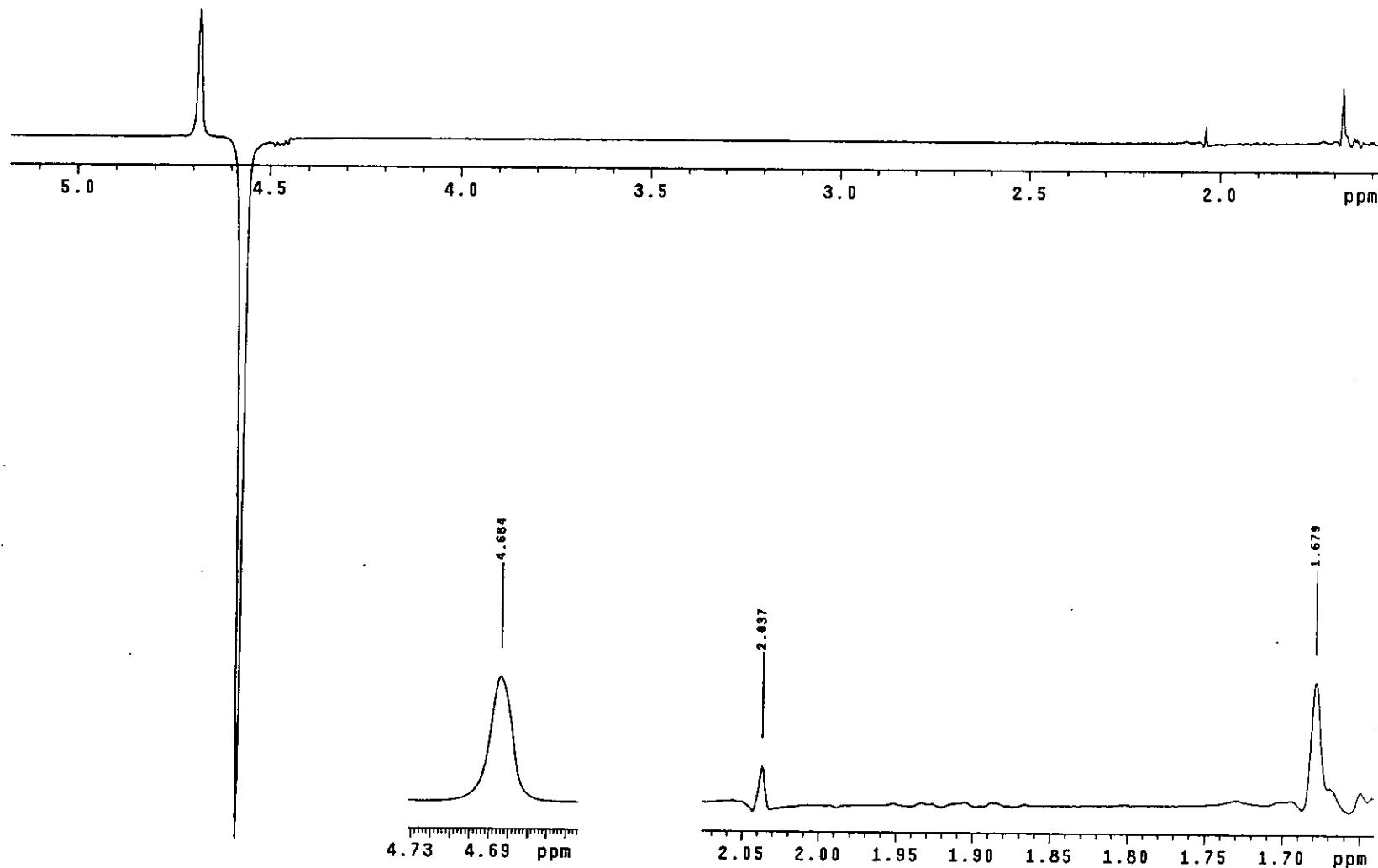


Figure 74 NOE spectrum of compound LCO3 (Irradiated at δ 4.57, (2))

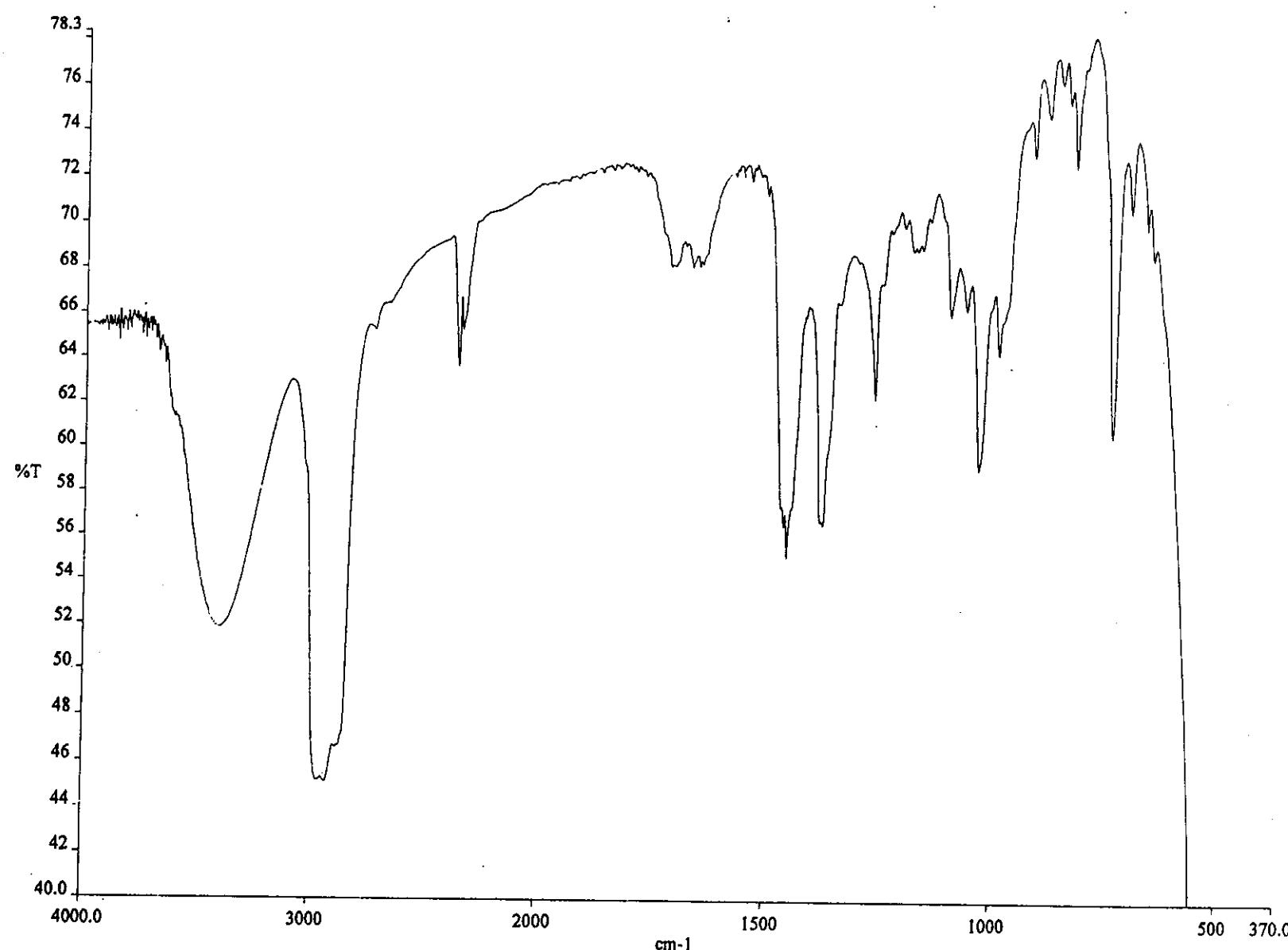


Figure 75 IR (Ncat) spectrum of compound LCO4

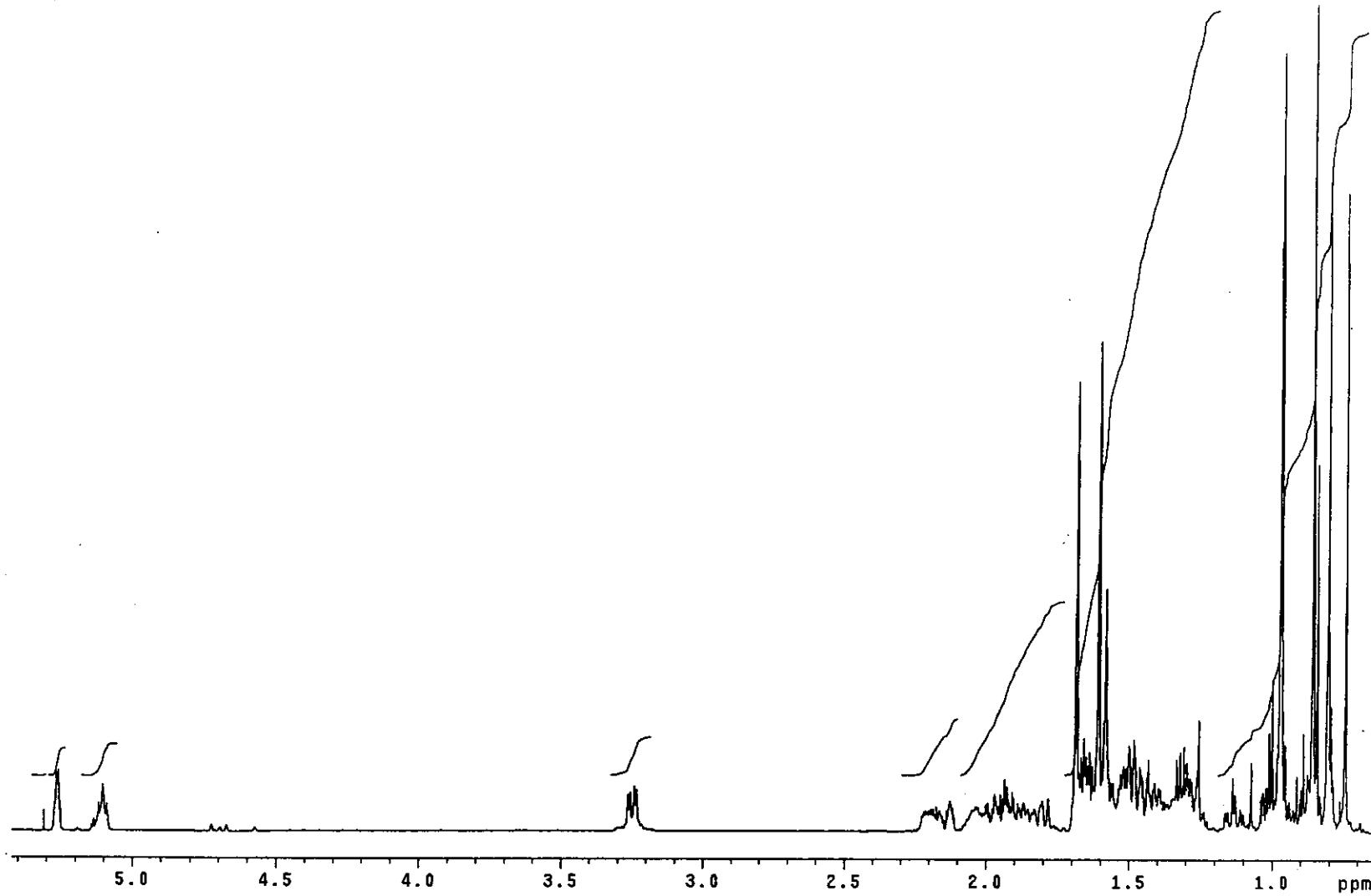


Figure 76 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO4

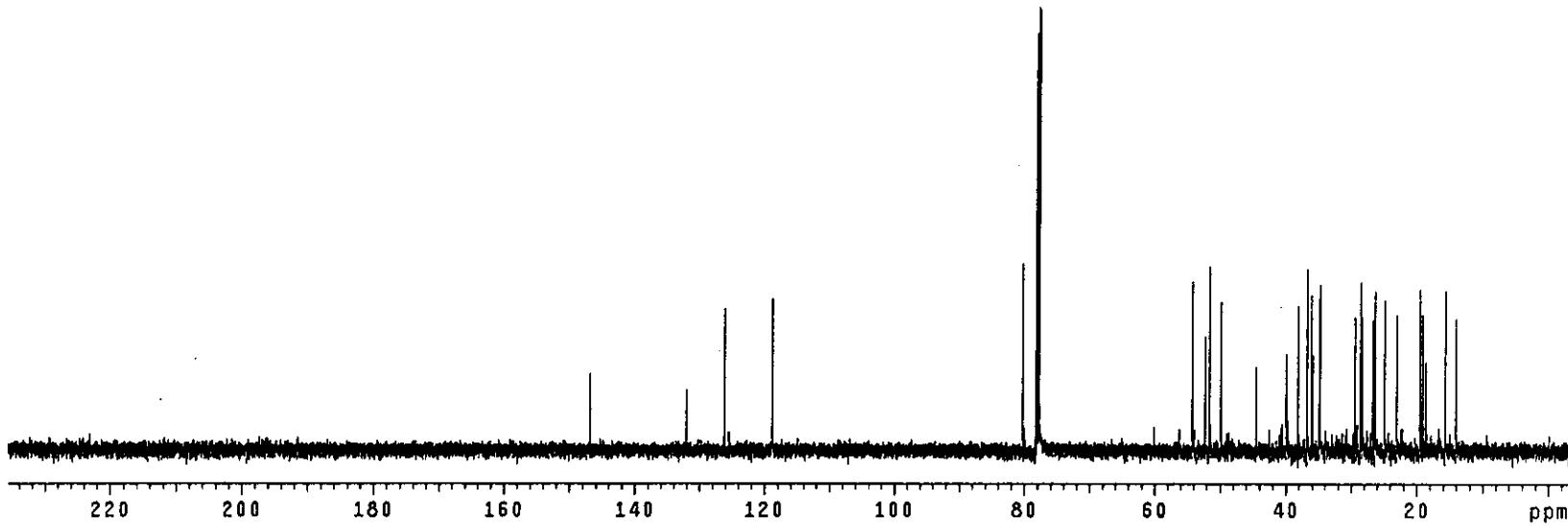


Figure 77 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO4

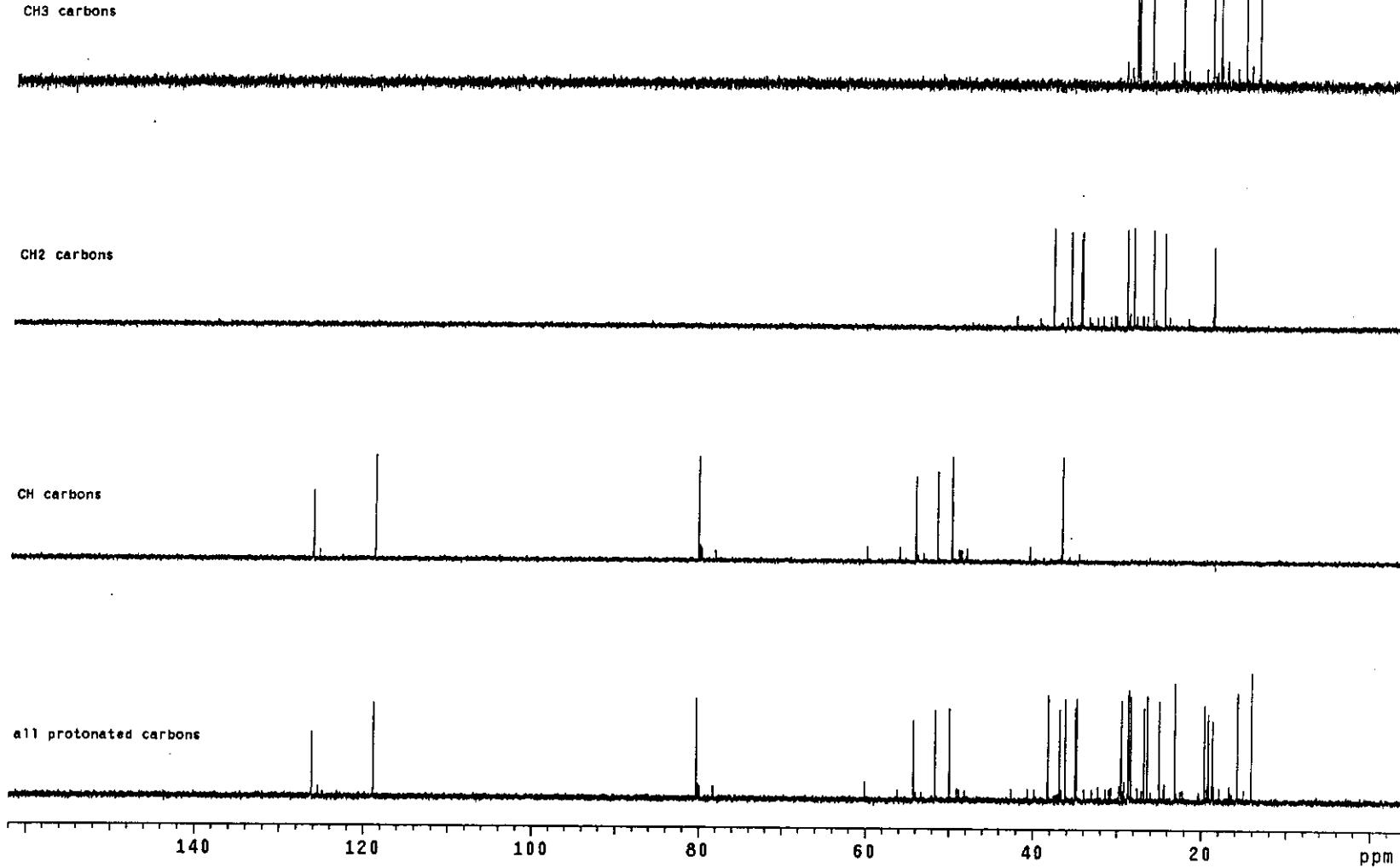


Figure 78 DEPT (CDCl_3) spectrum of compound LCO4

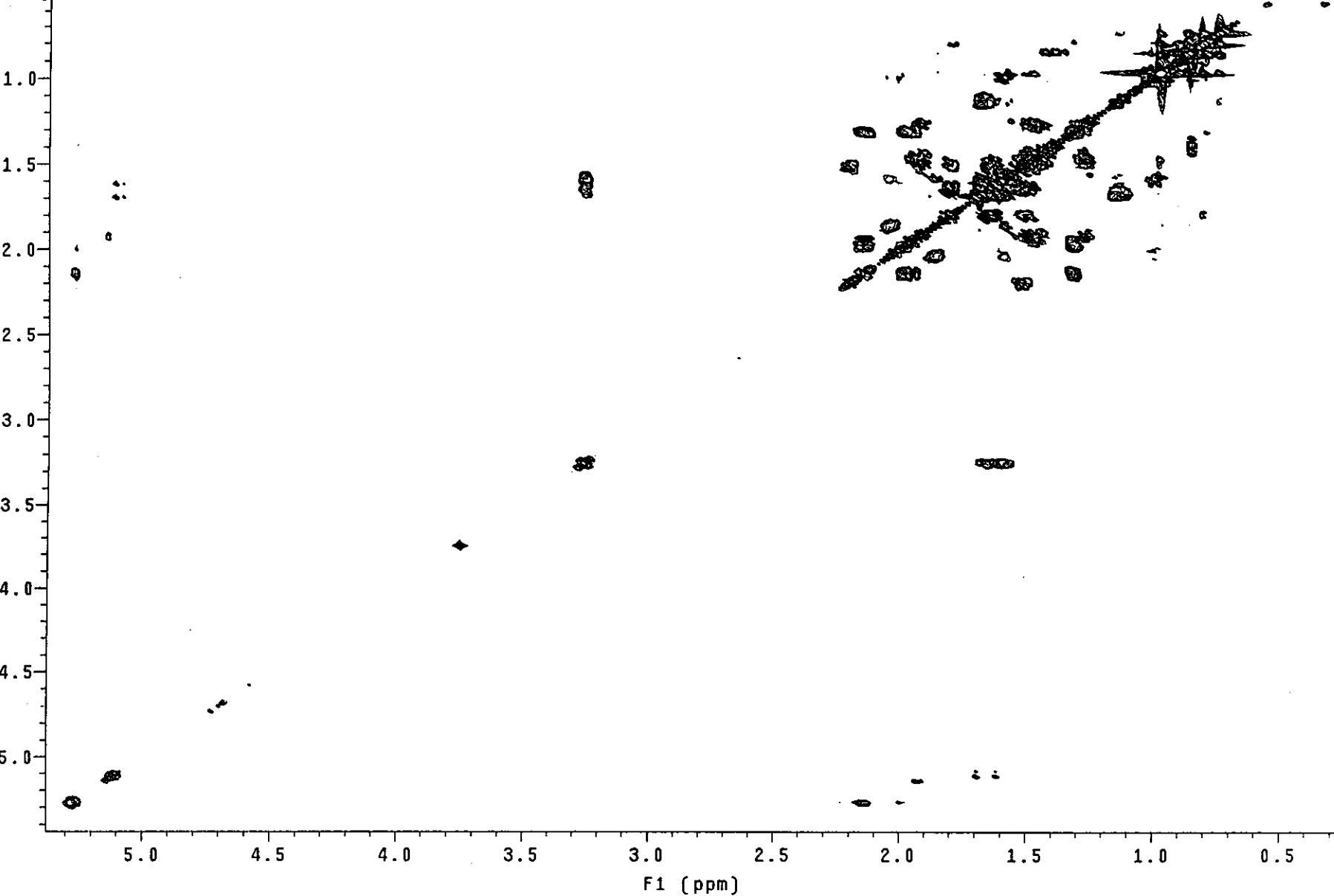


Figure 79 2D COSY spectrum of compound LCO4

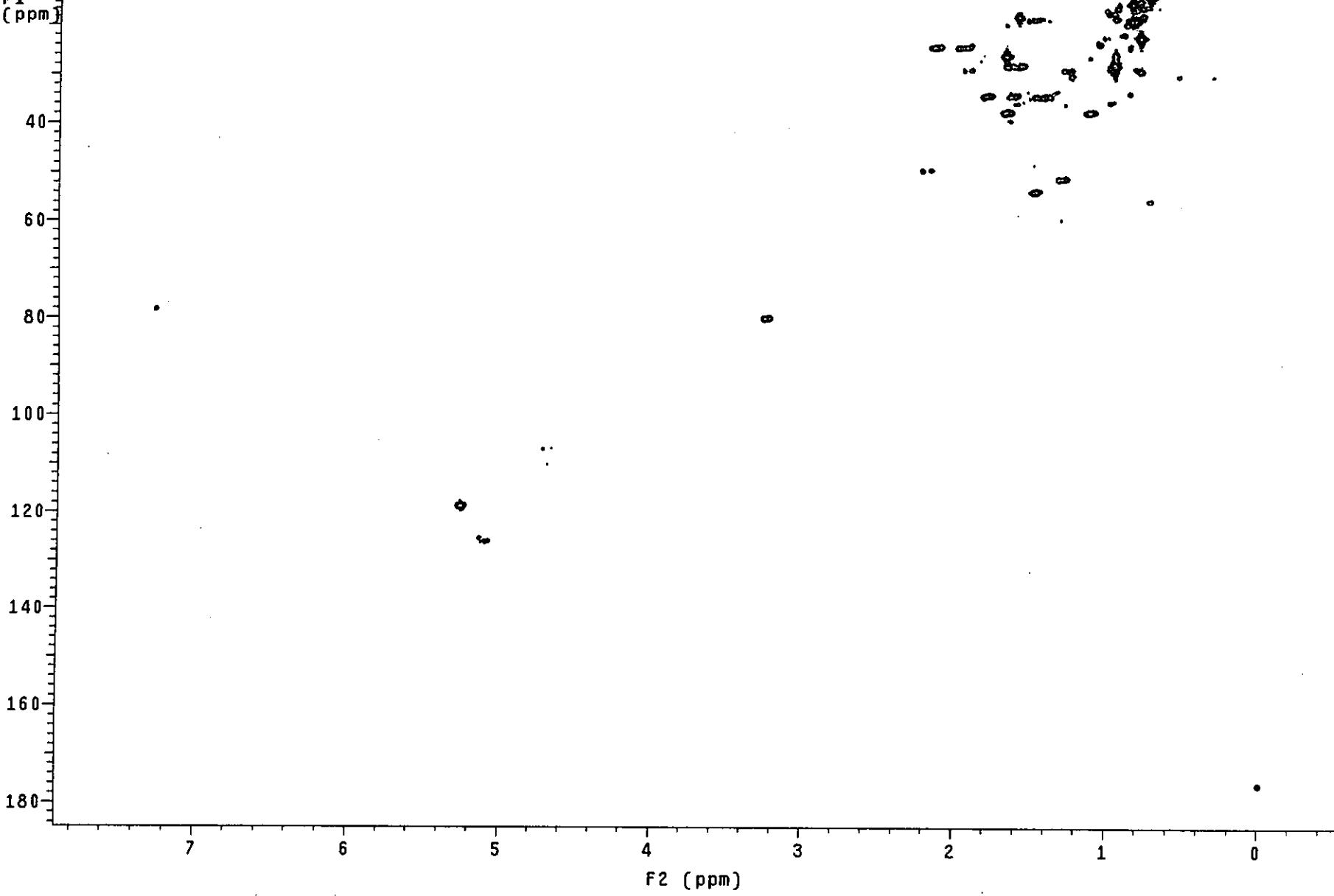


Figure 80 2D HMQC spectrum of compound LCO4

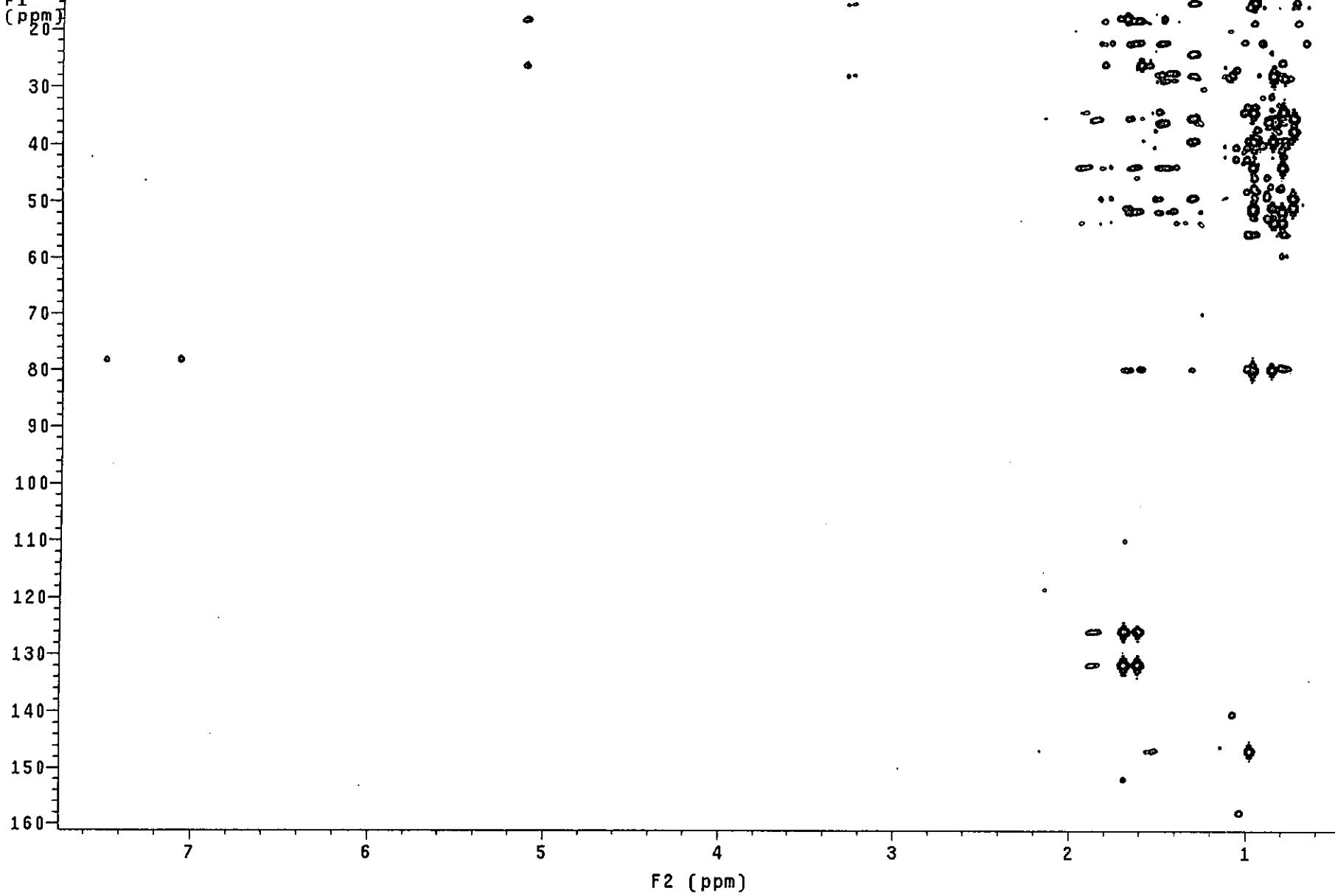


Figure 81 2D HMBC spectrum of compound LCO4

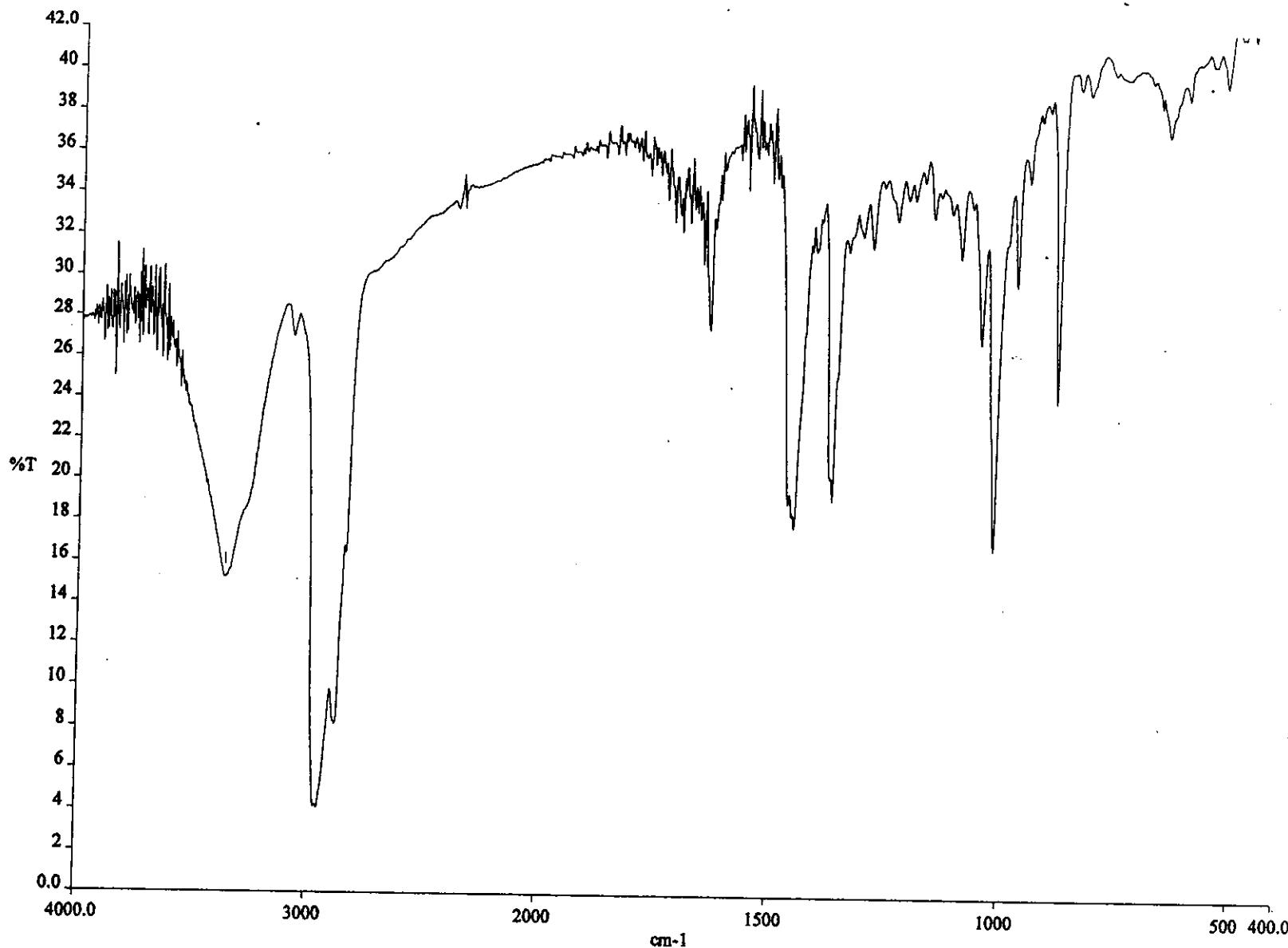


Figure 82 IR (KBr) spectrum of compound LCO5

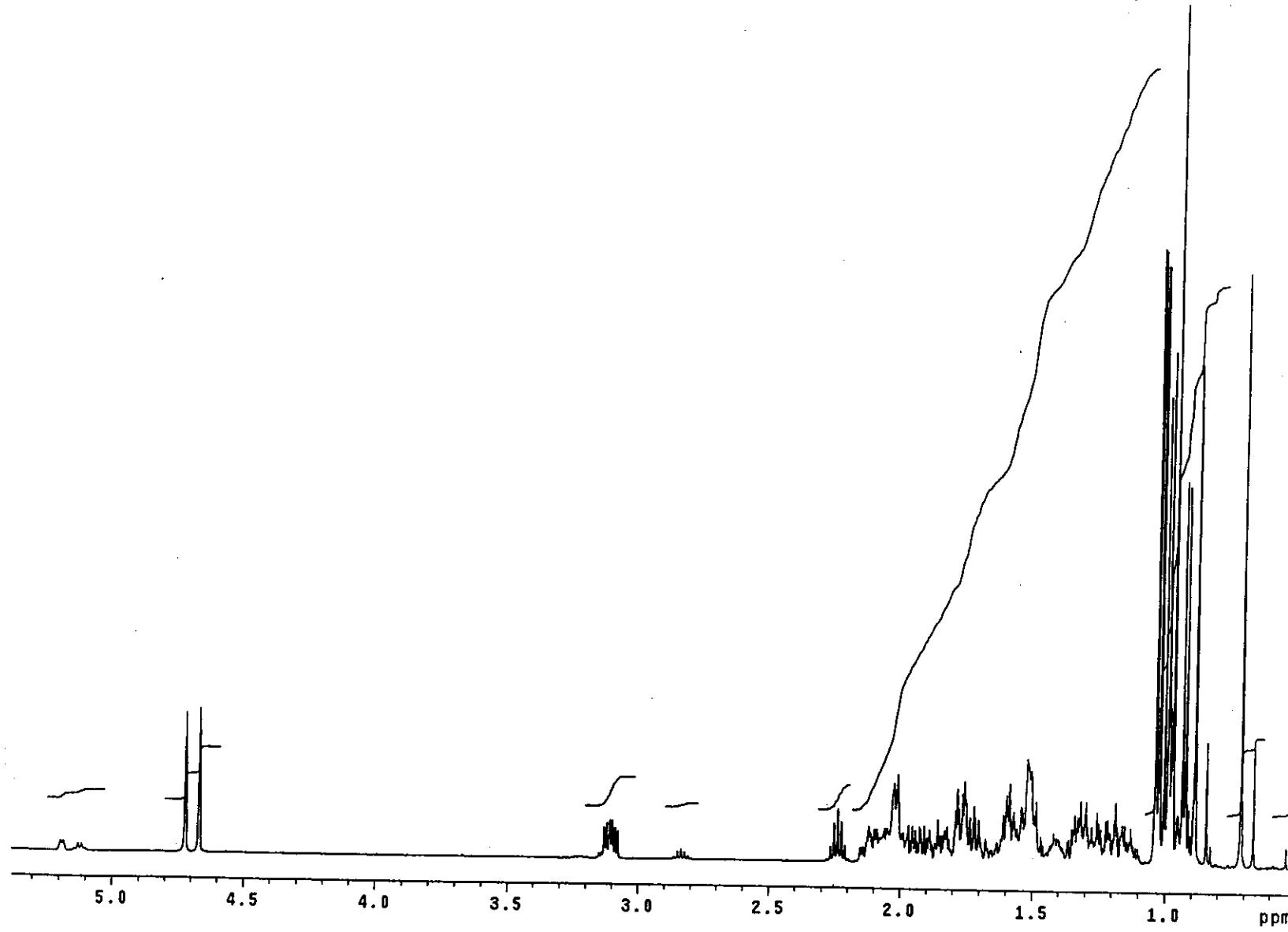


Figure 83 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO5

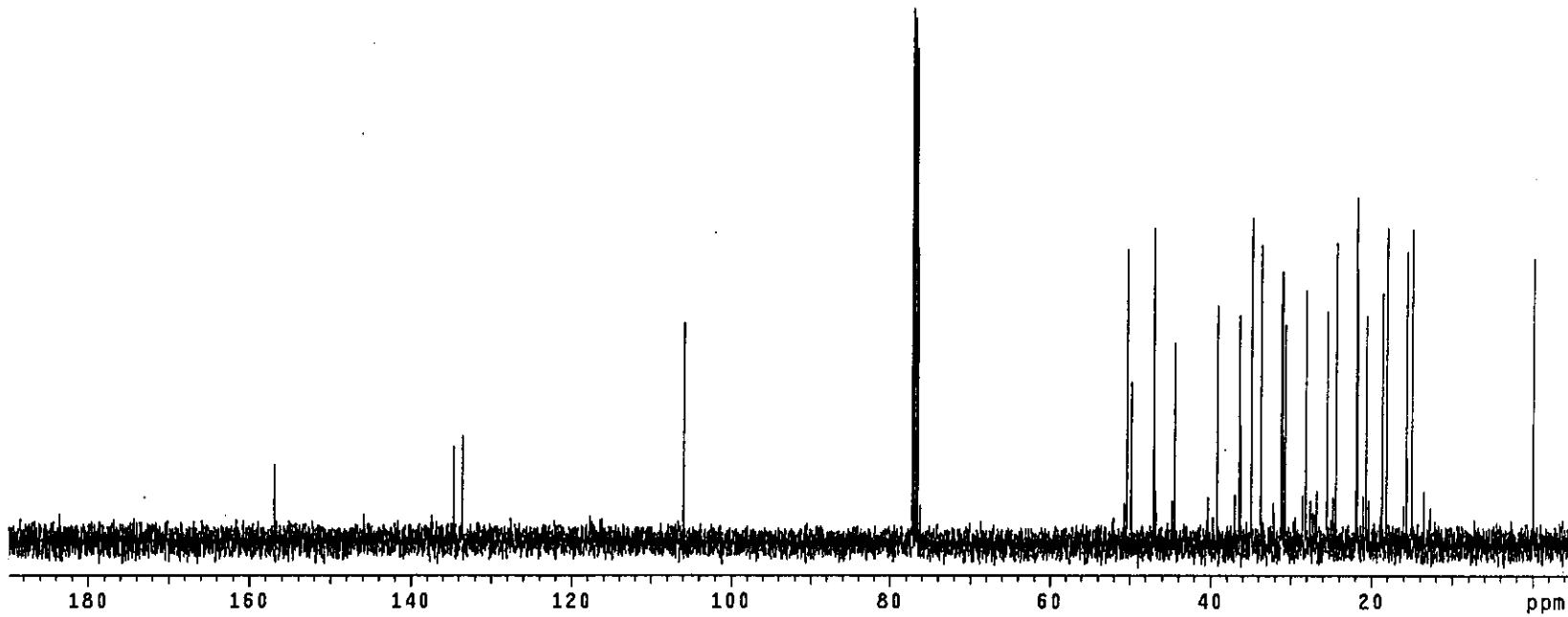
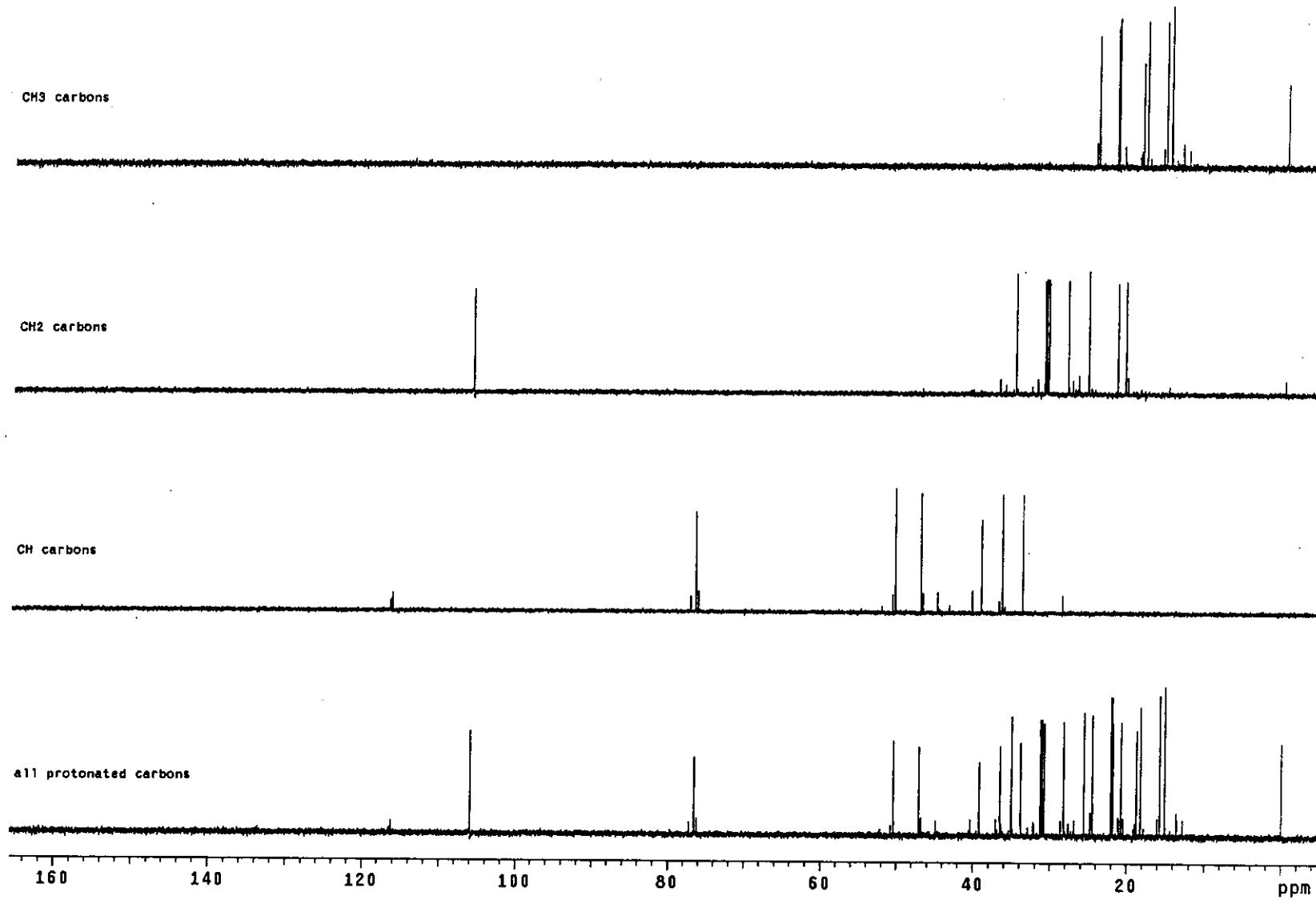


Figure 84 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO5



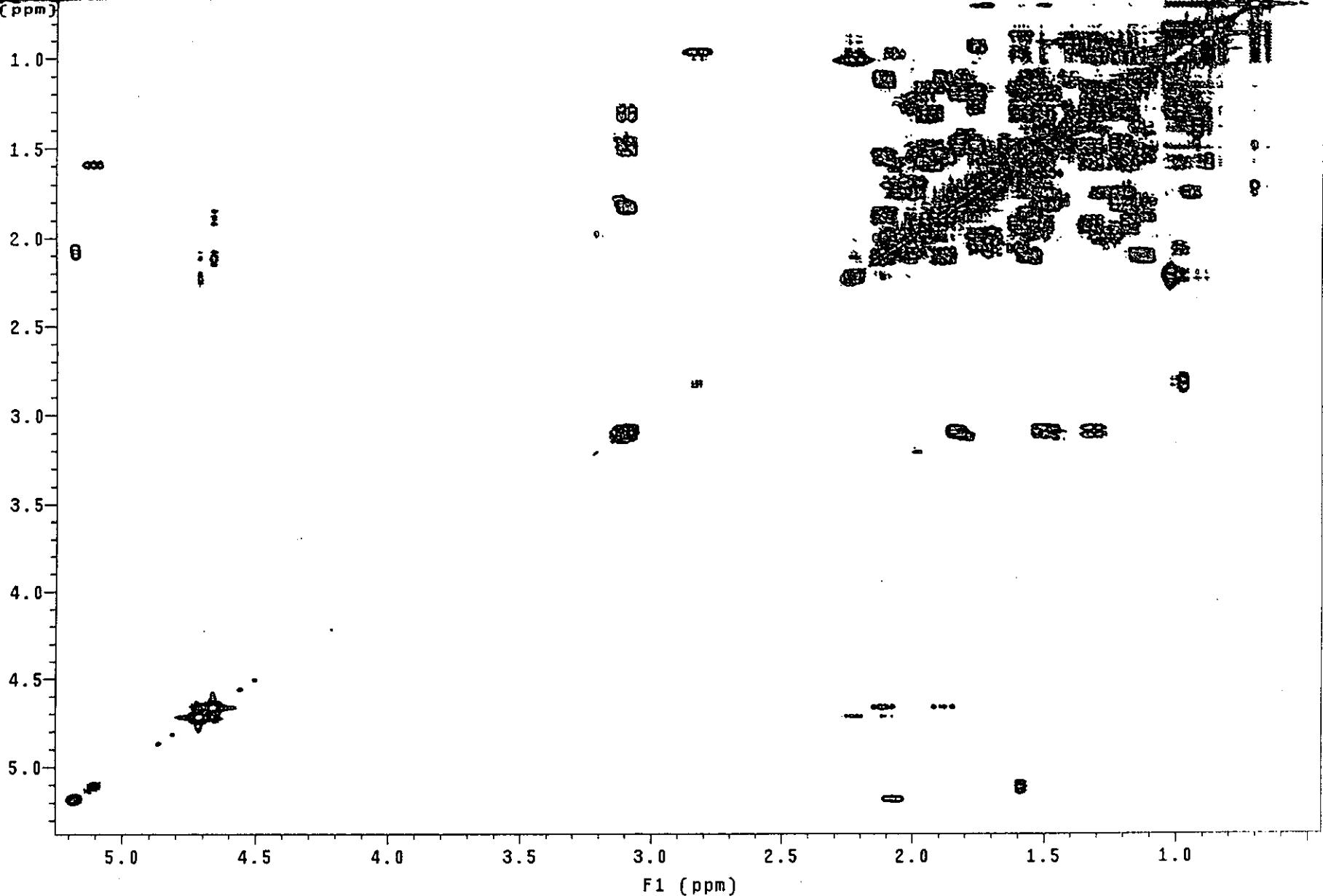


Figure 86 2D COSY spectrum of compound LC05

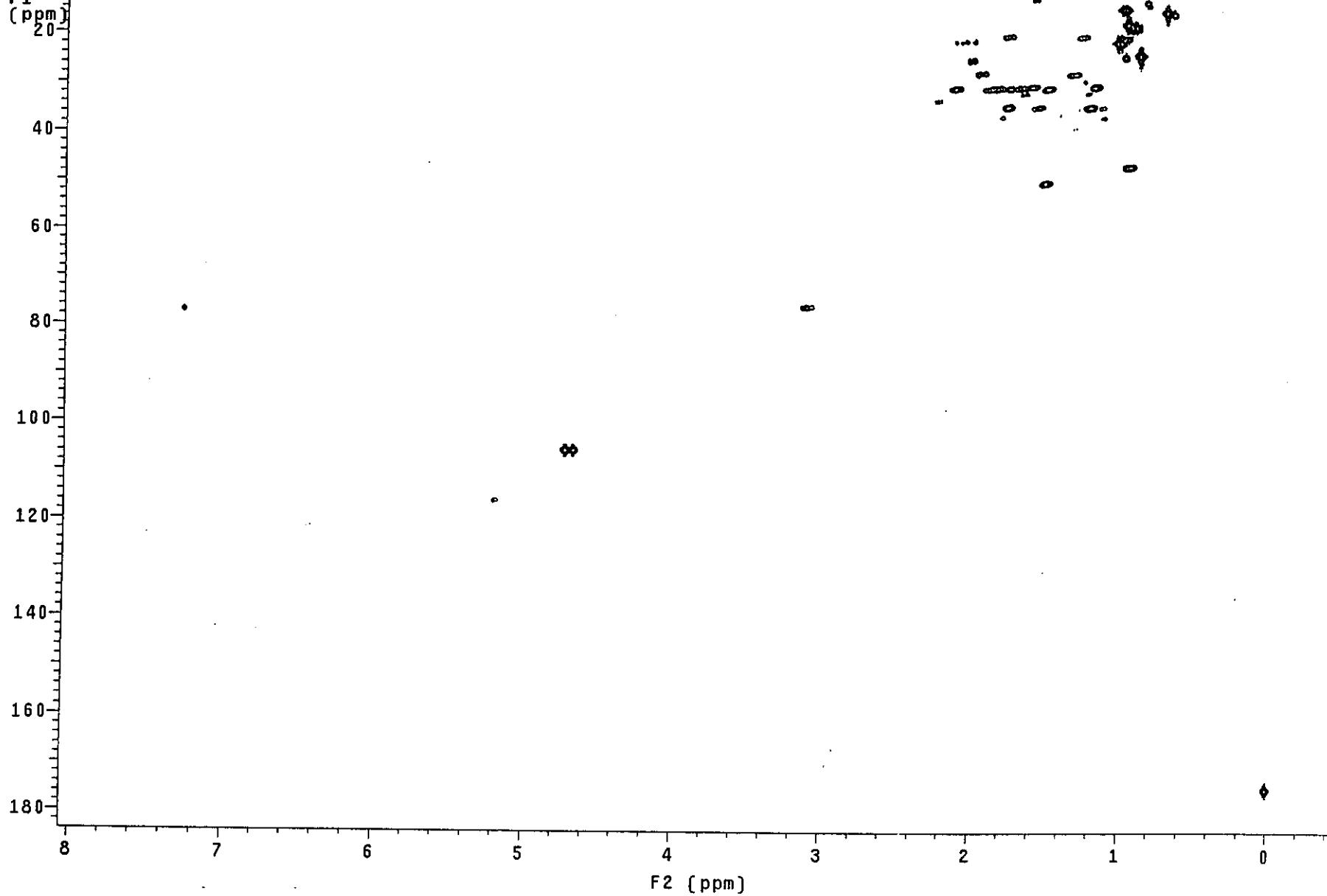


Figure 87 2D HMOC spectrum of compound LC05

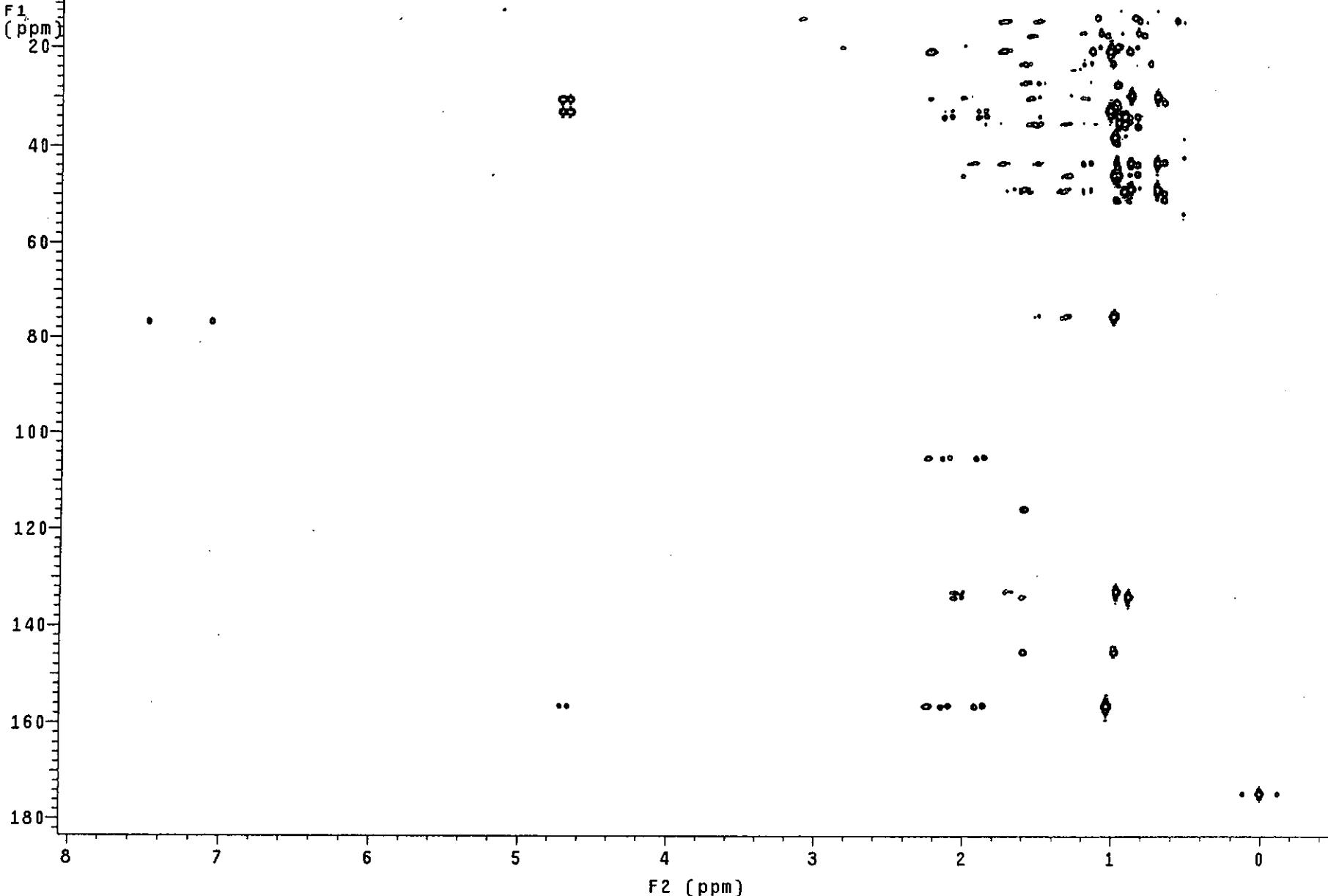


Figure 88 2D HMBC spectrum of compound LCO5

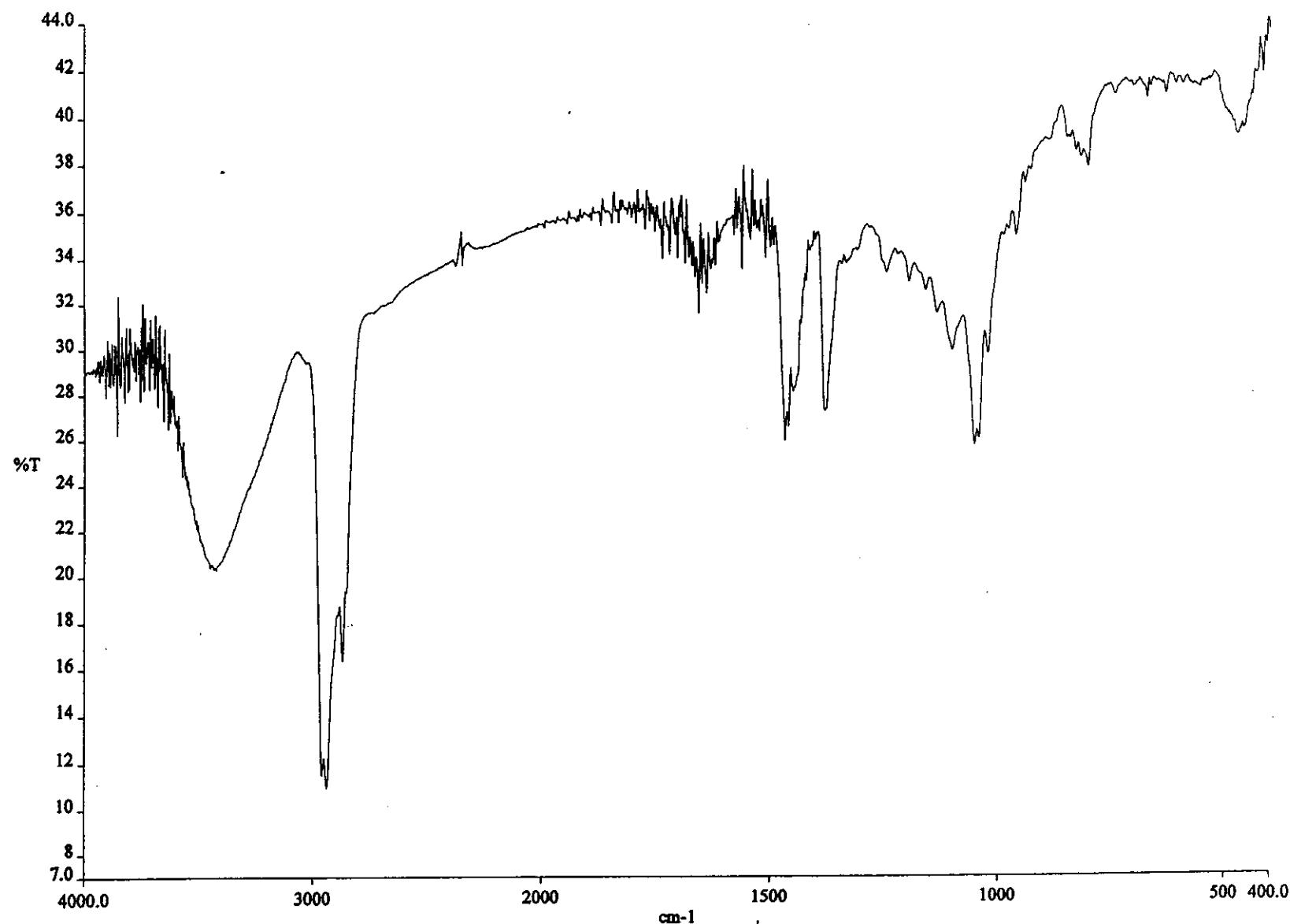


Figure 89 IR (KBr) spectrum of compound LCO6

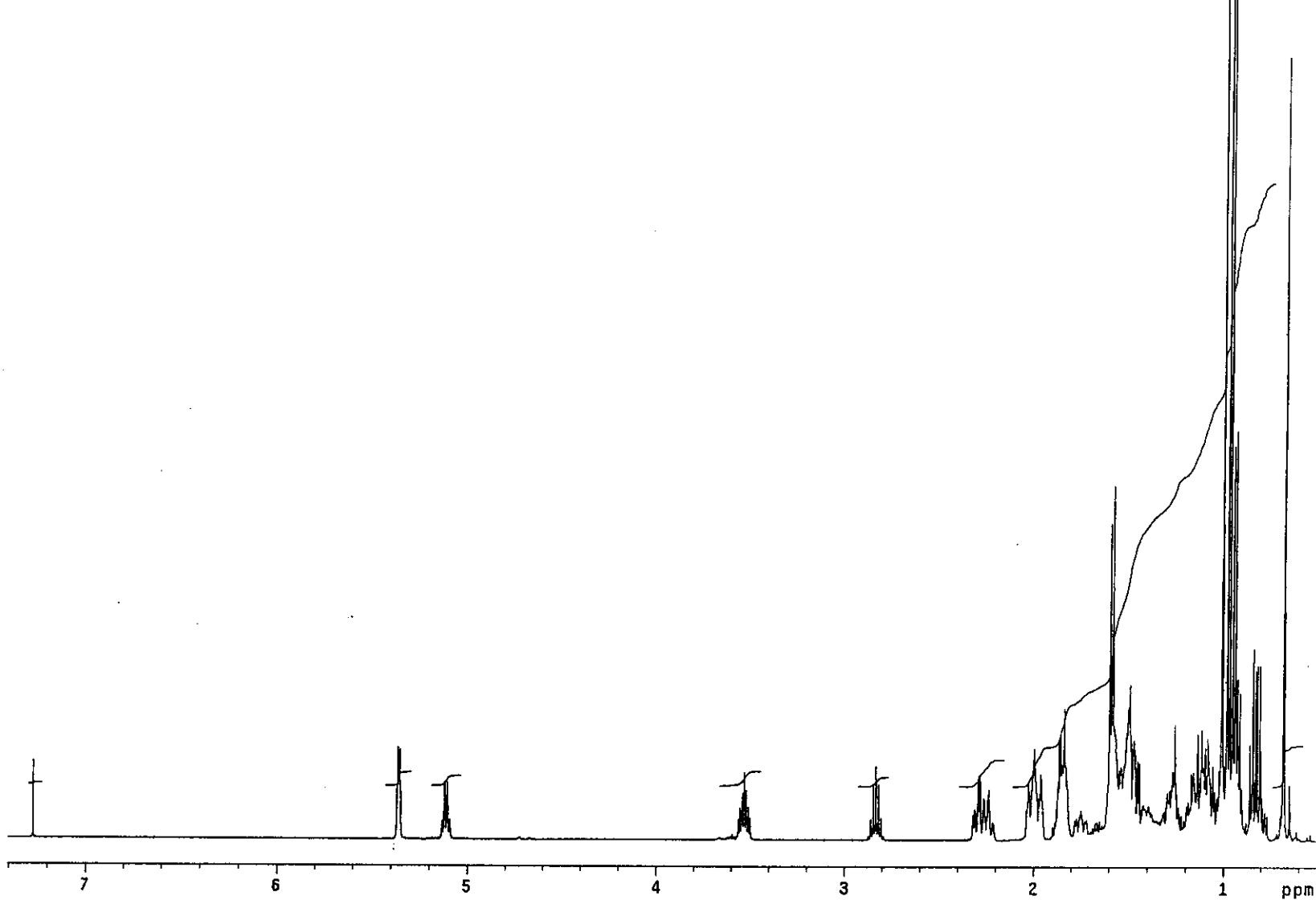


Figure 90 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO6

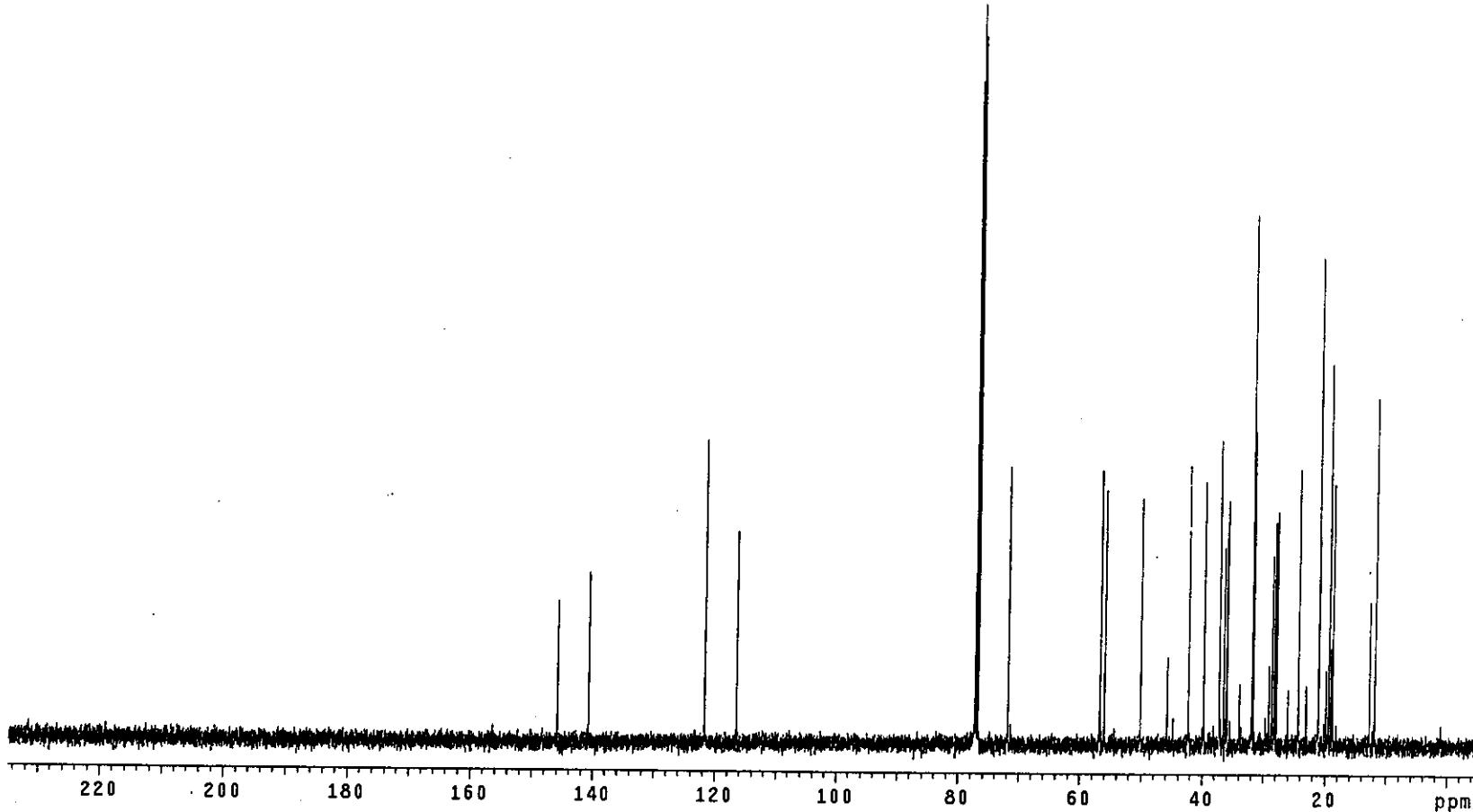


Figure 91 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO6

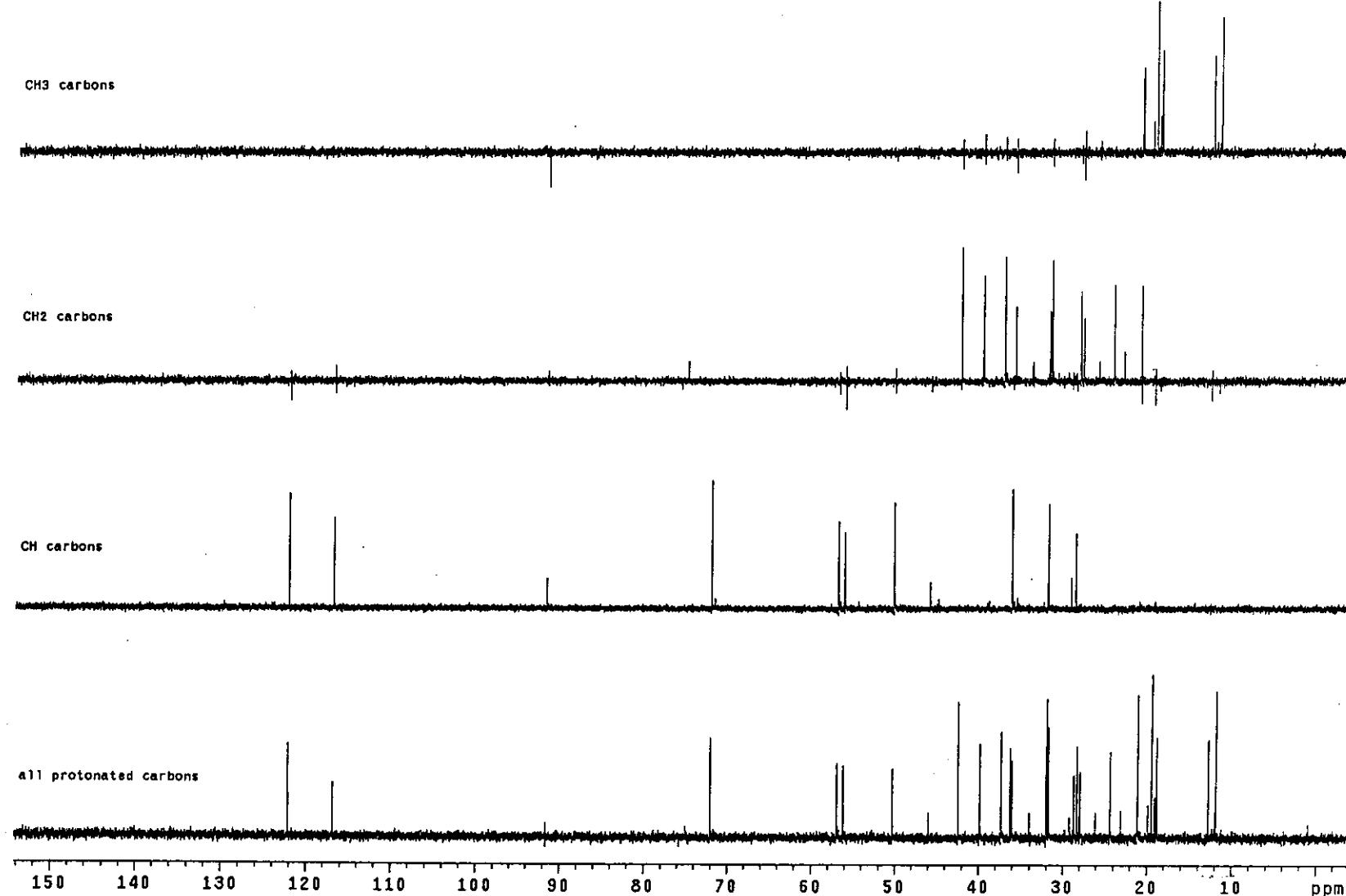


Figure 92 DEPT (CDCl_3) spectrum of compound LCO6

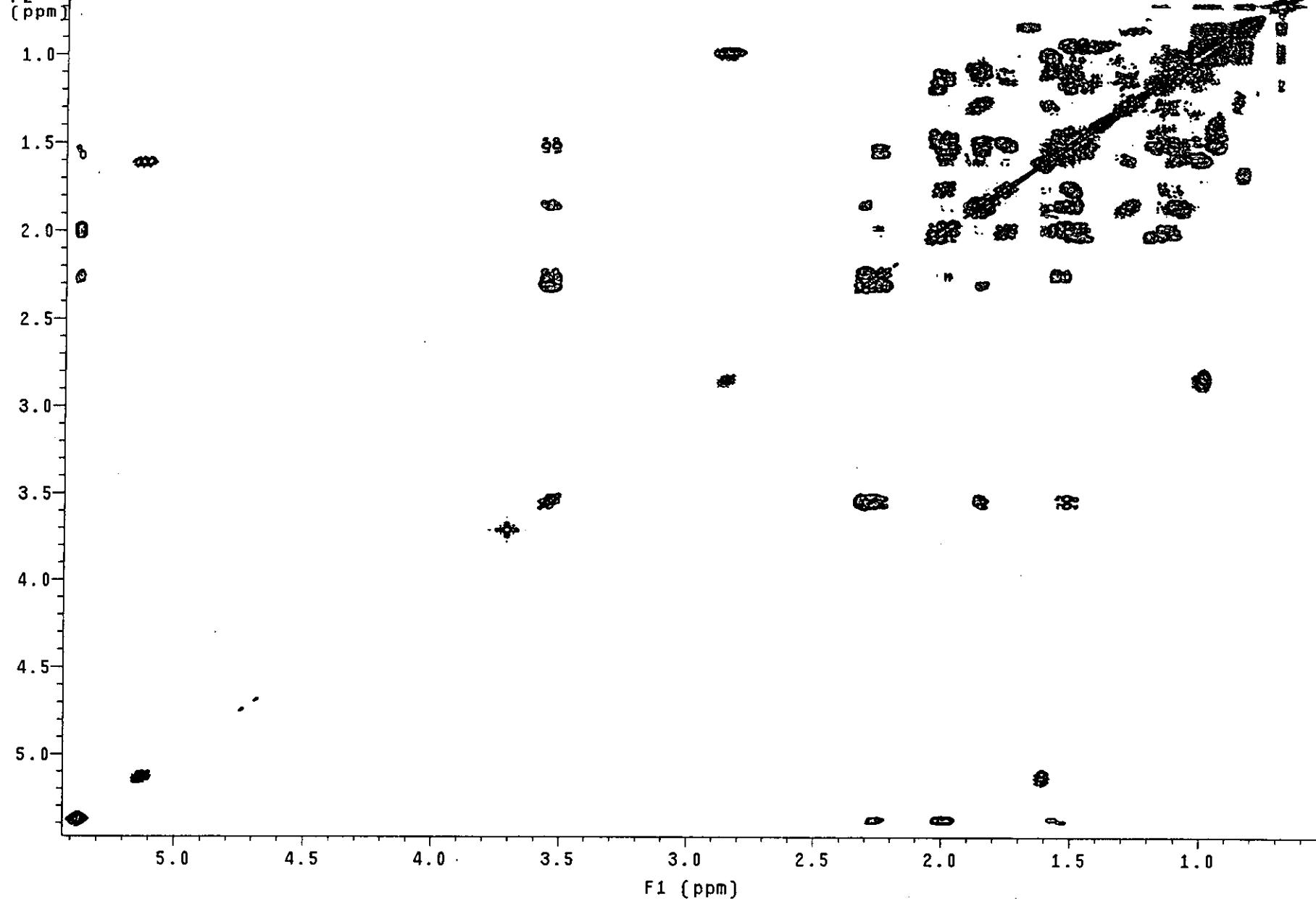


Figure 93 2D COSY spectrum of compound LCO6

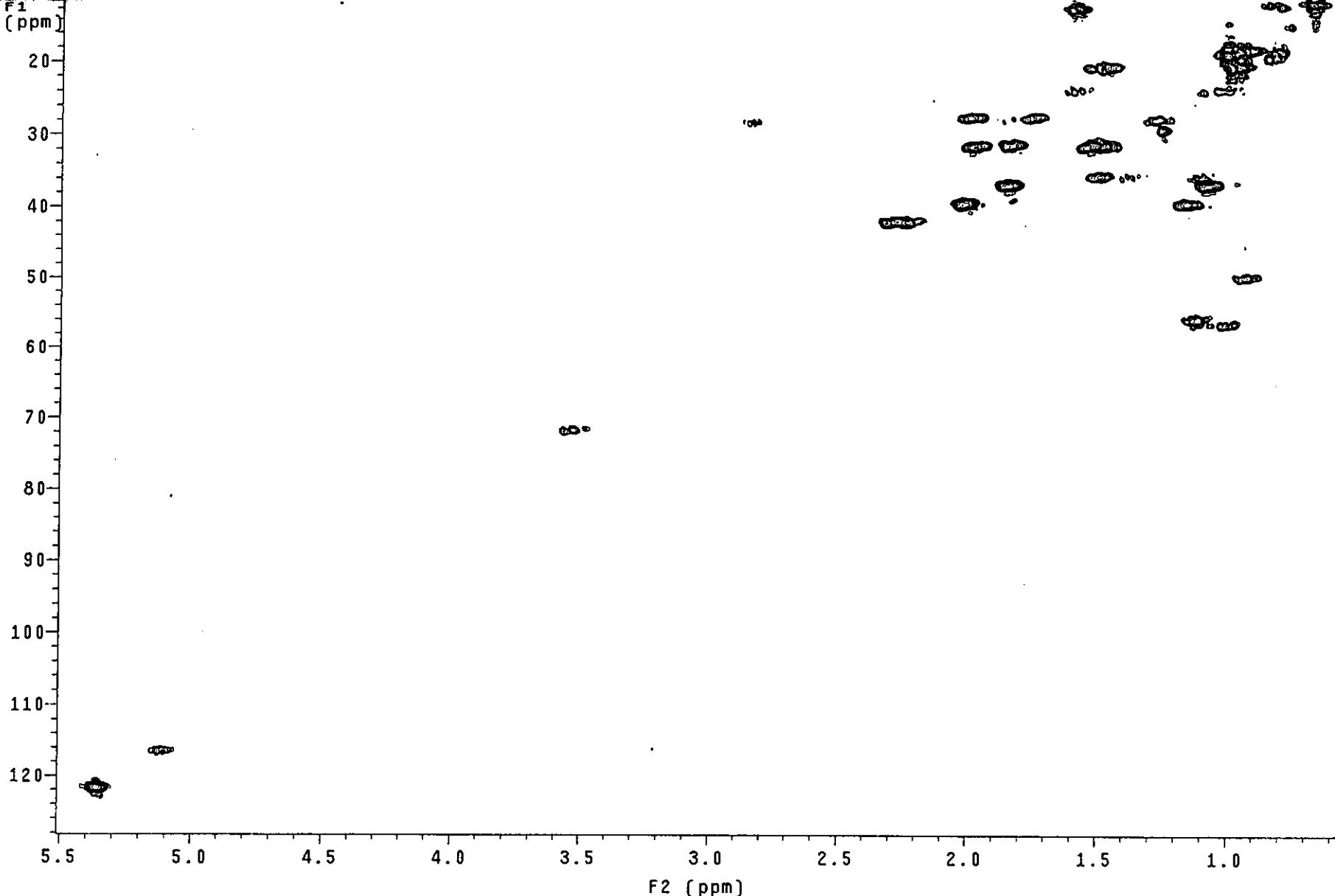


Figure 94 2D HMQC spectrum of compound LCO6

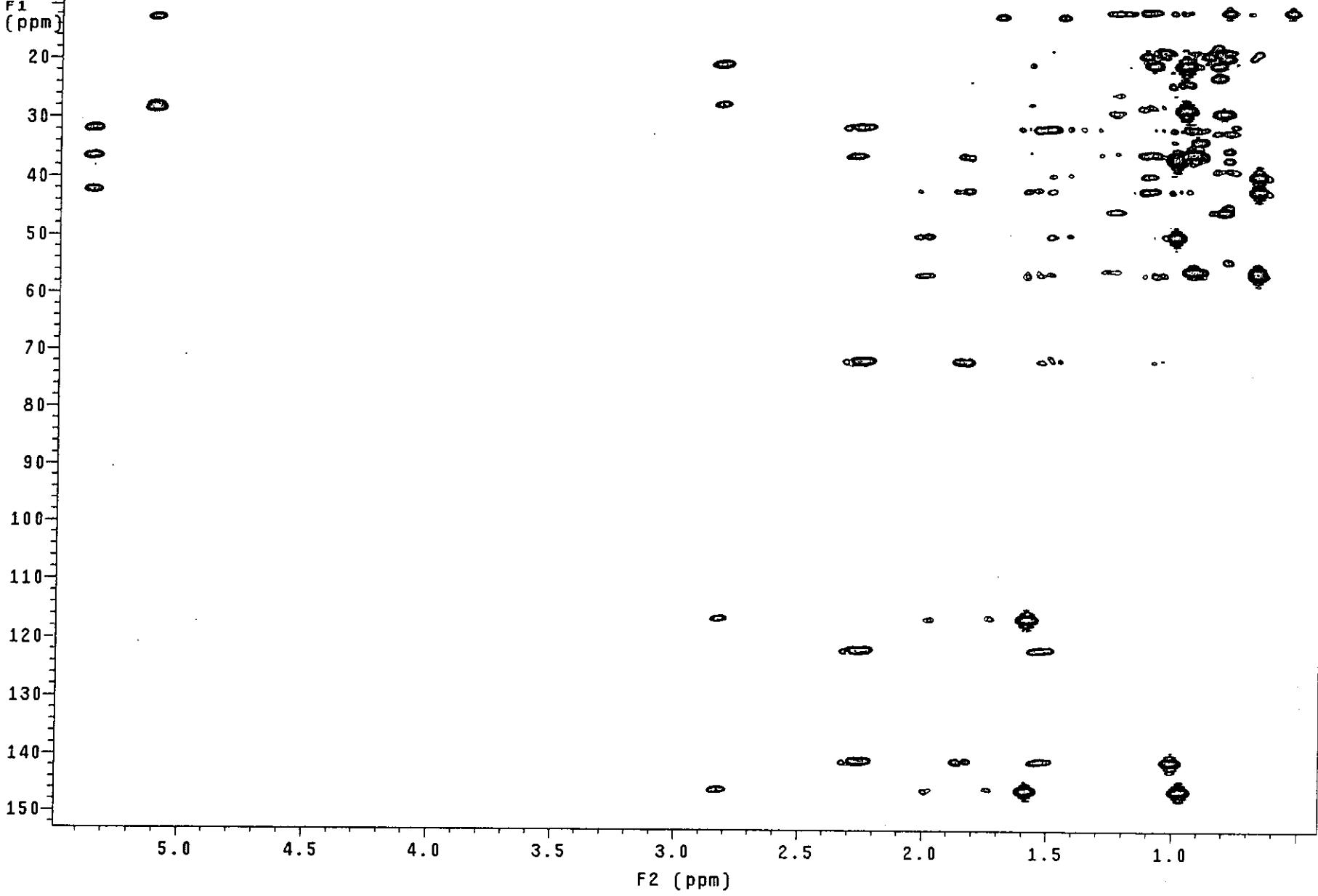


Figure 95 2D HMBC spectrum of compound LCO6

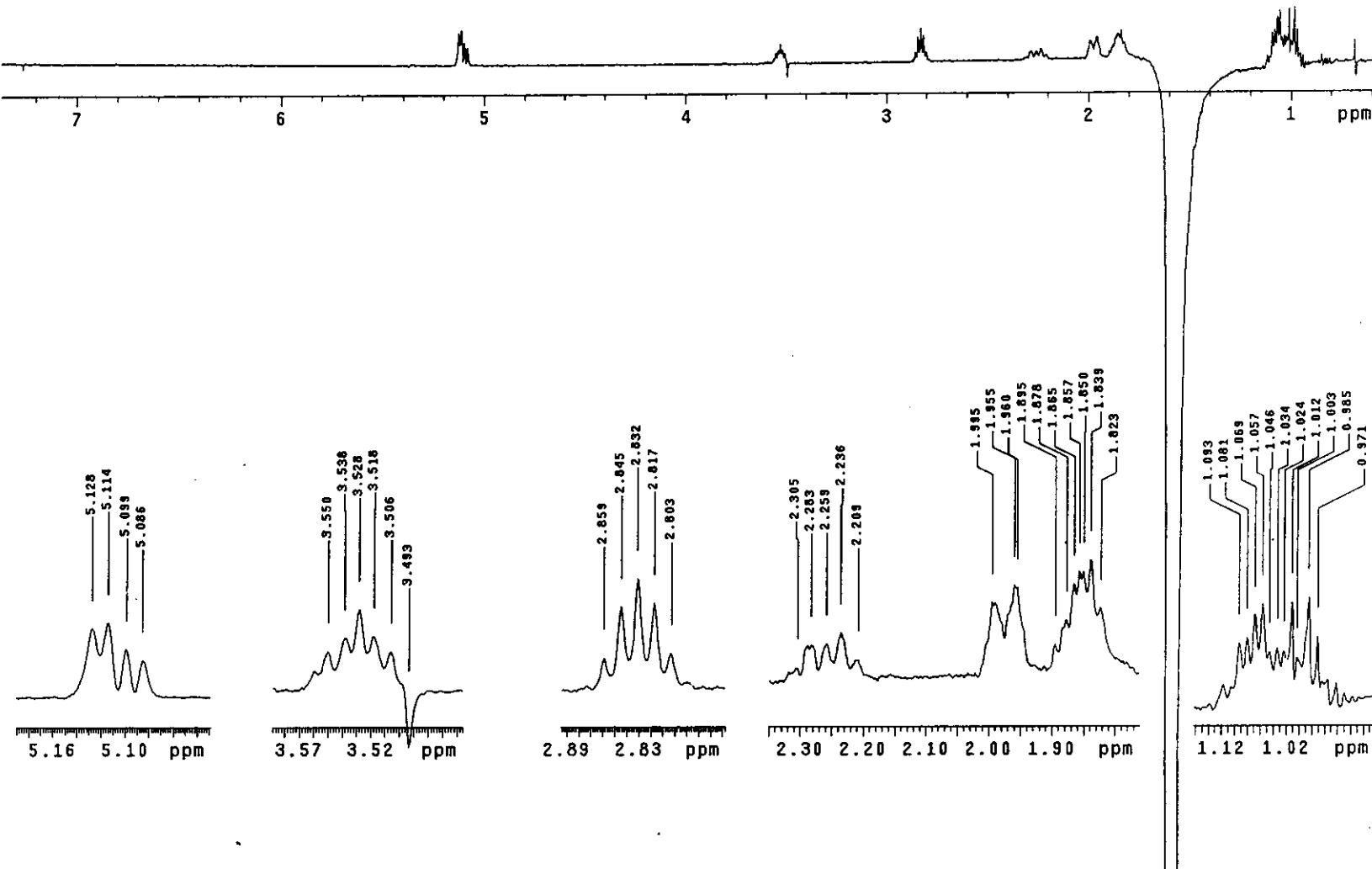


Figure 96 NOE spectrum of compound LCO6 (Irradiated at δ 1.58, (1))

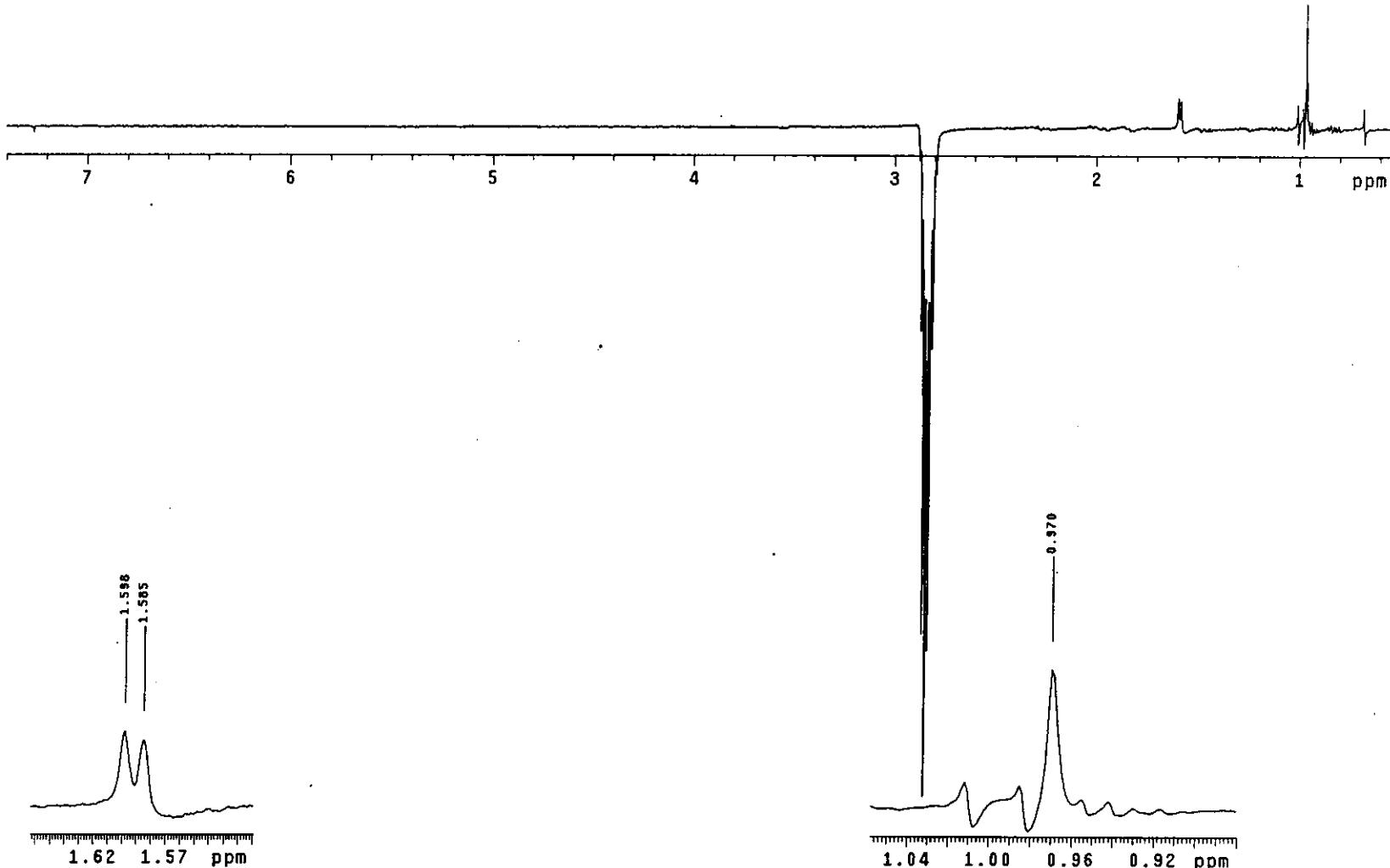


Figure 97 NOE spectrum of compound LCO6 (Irradiated at δ 2.83, (2))

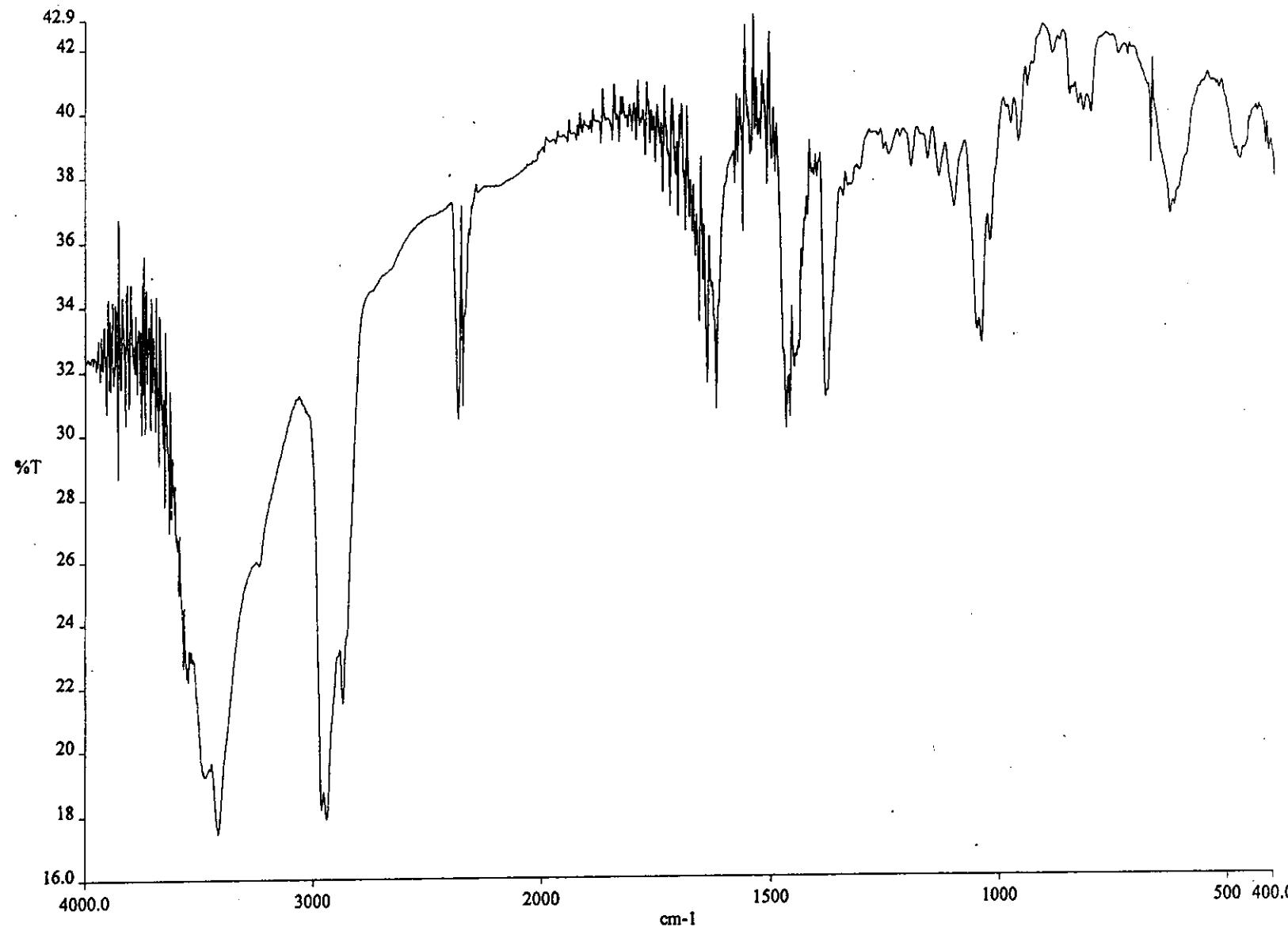


Figure 98 IR (KBr) spectrum of compound LCO7

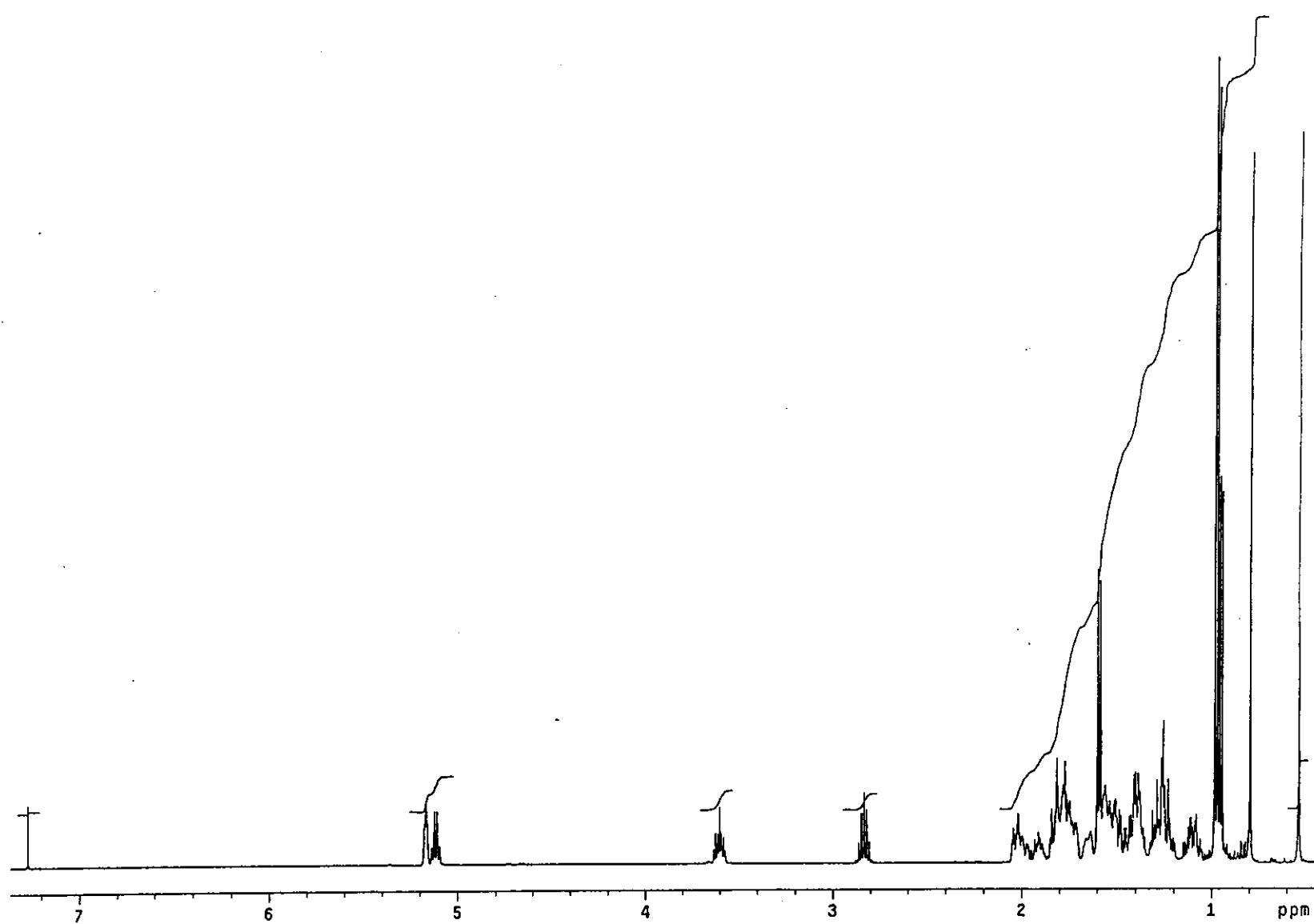


Figure 99 ^1H NMR (500 MHz, CDCl_3) spectrum of compound LCO7

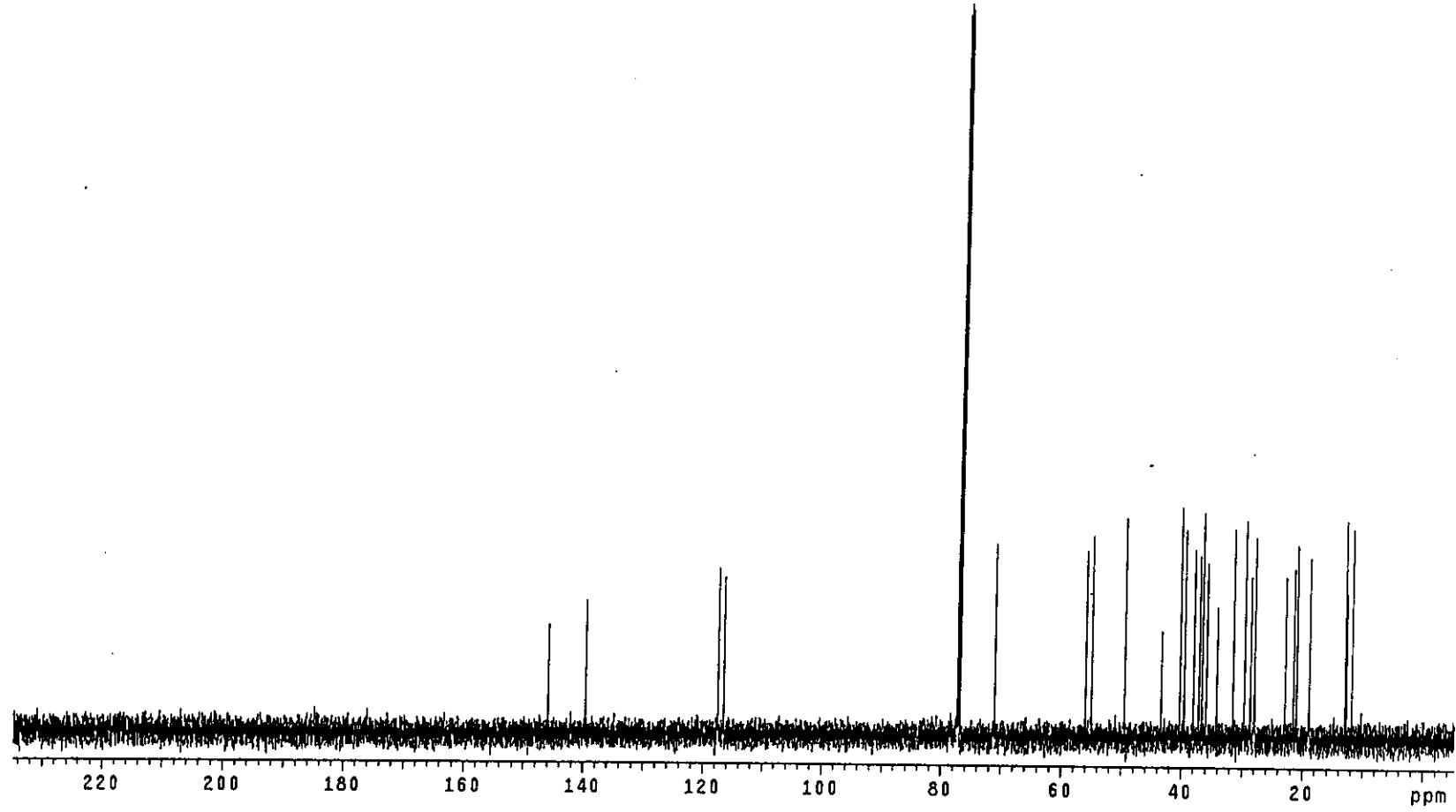


Figure 100 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound LCO7

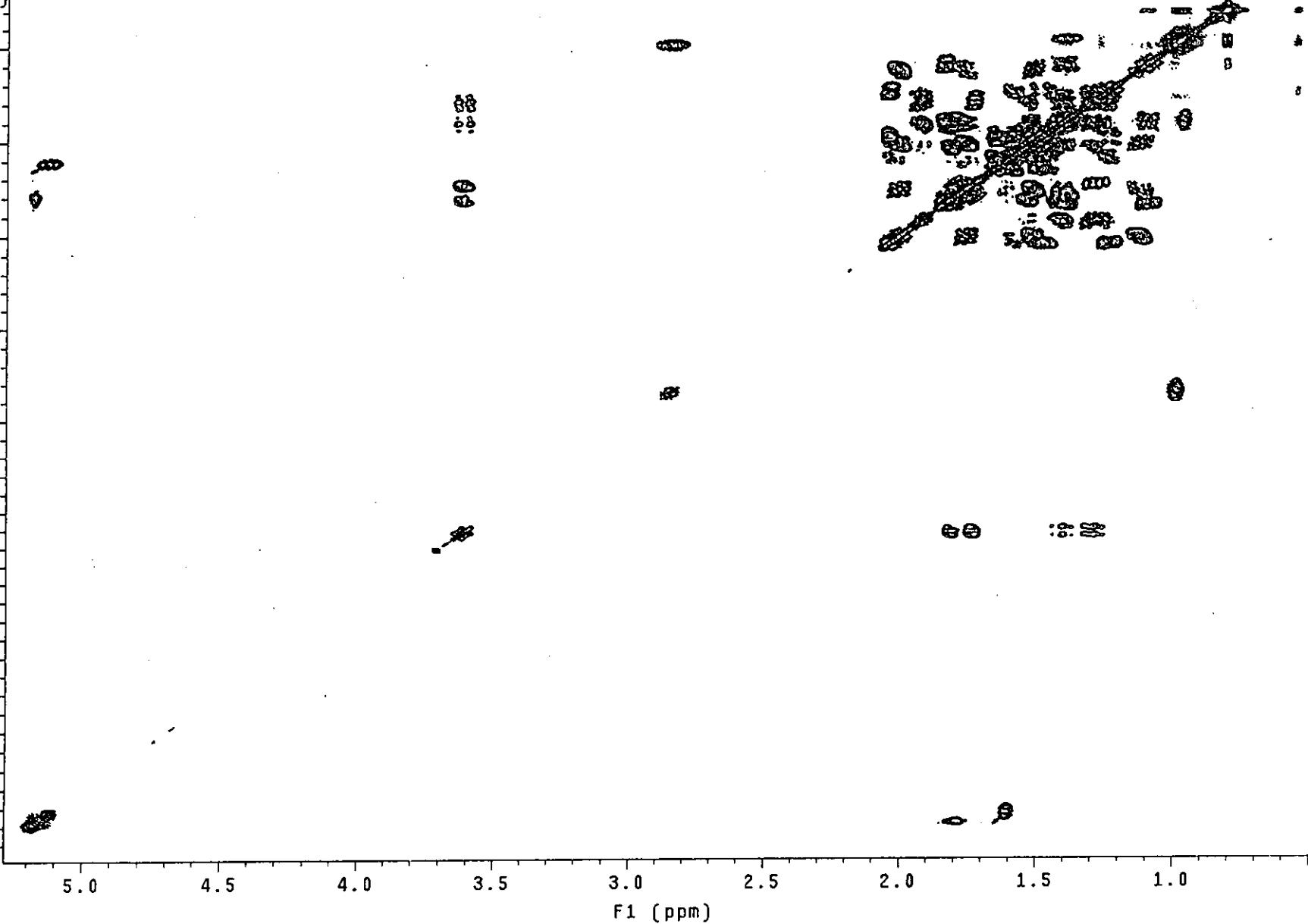


Figure 102 2D COSY spectrum of compound LCO7

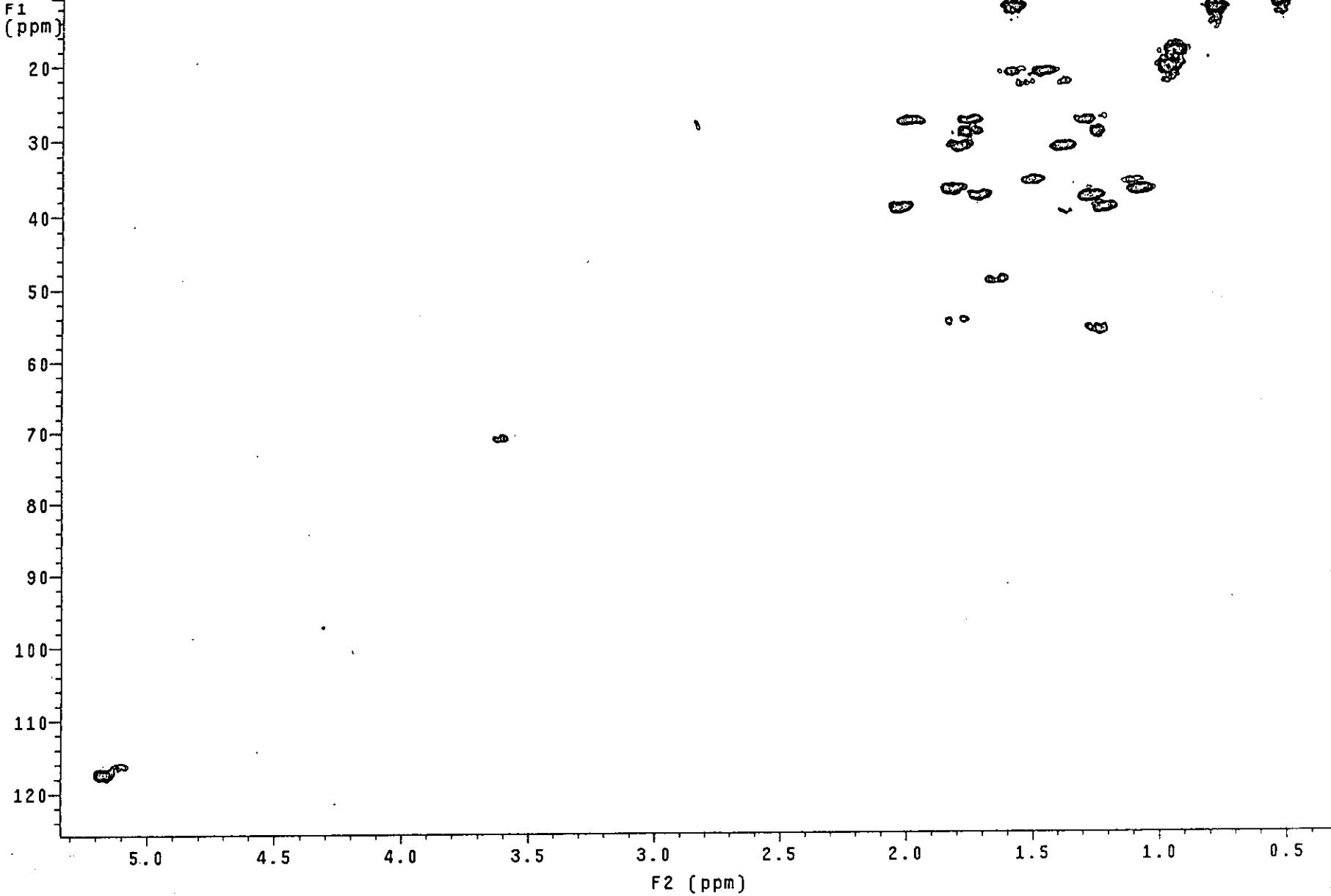


Figure 103 2D HMQC spectrum of compound LCO7

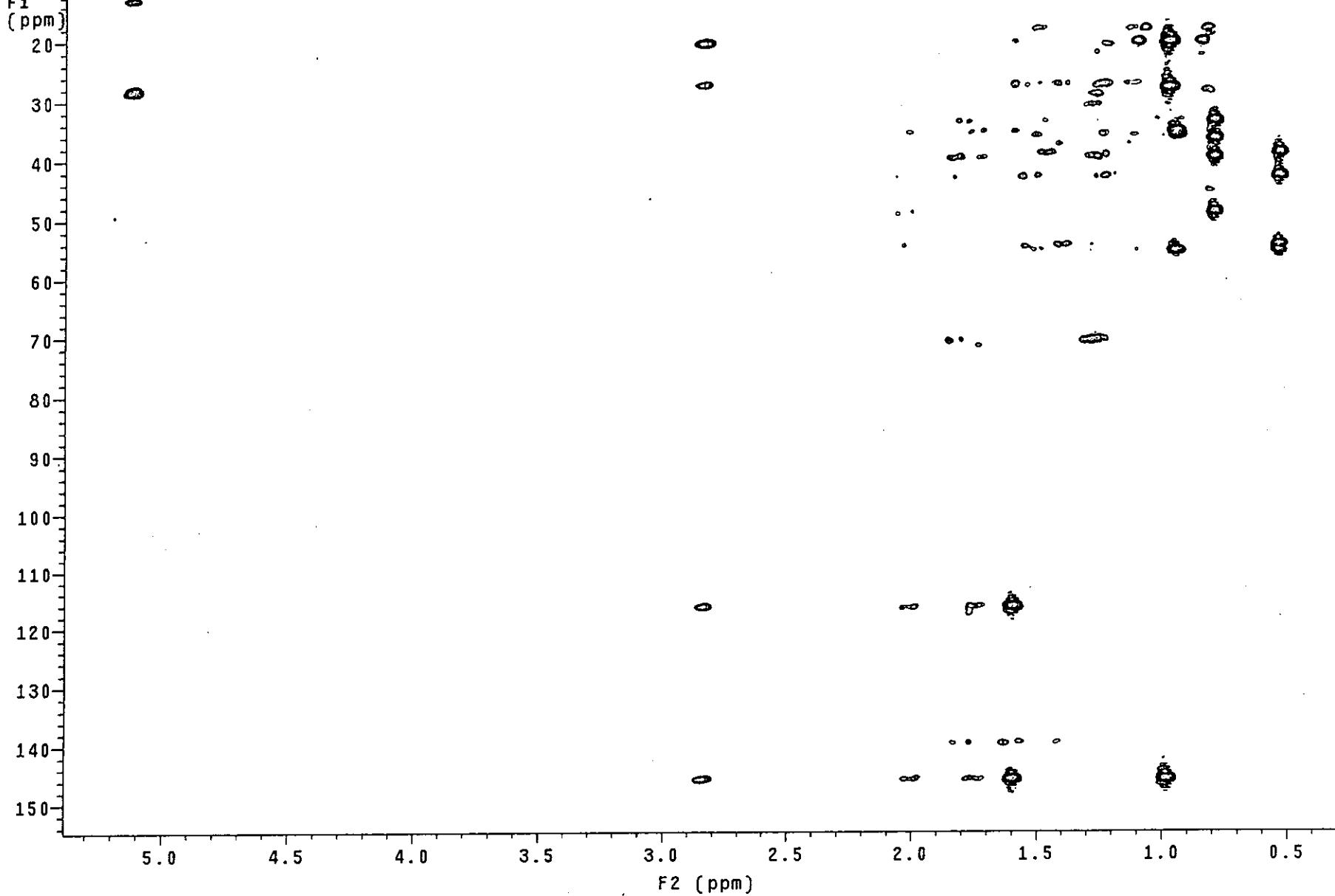


Figure 104 2D HMBC spectrum of compound LCO7

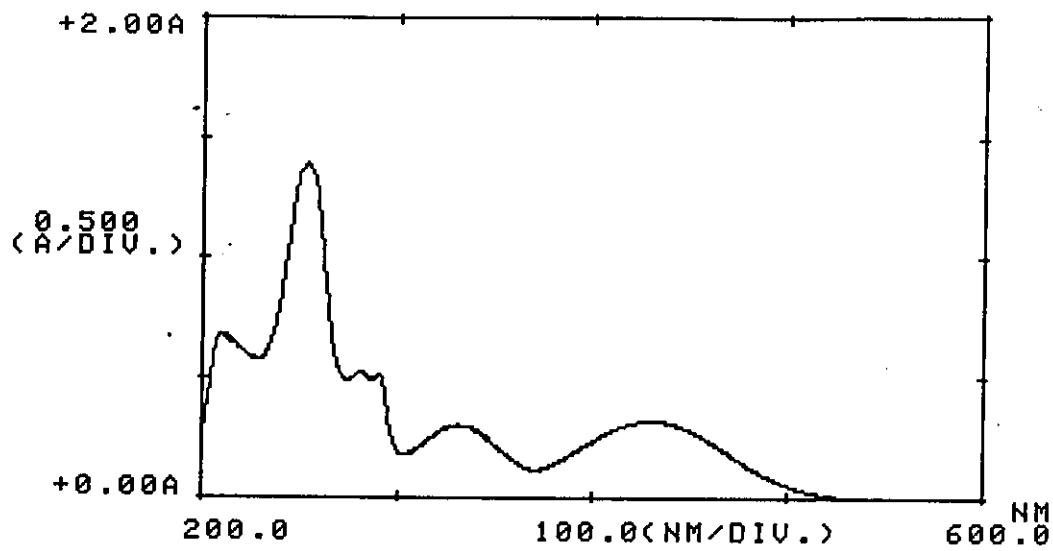


Figure 105 UV (CHCl_3) spectrum of compound BCO1

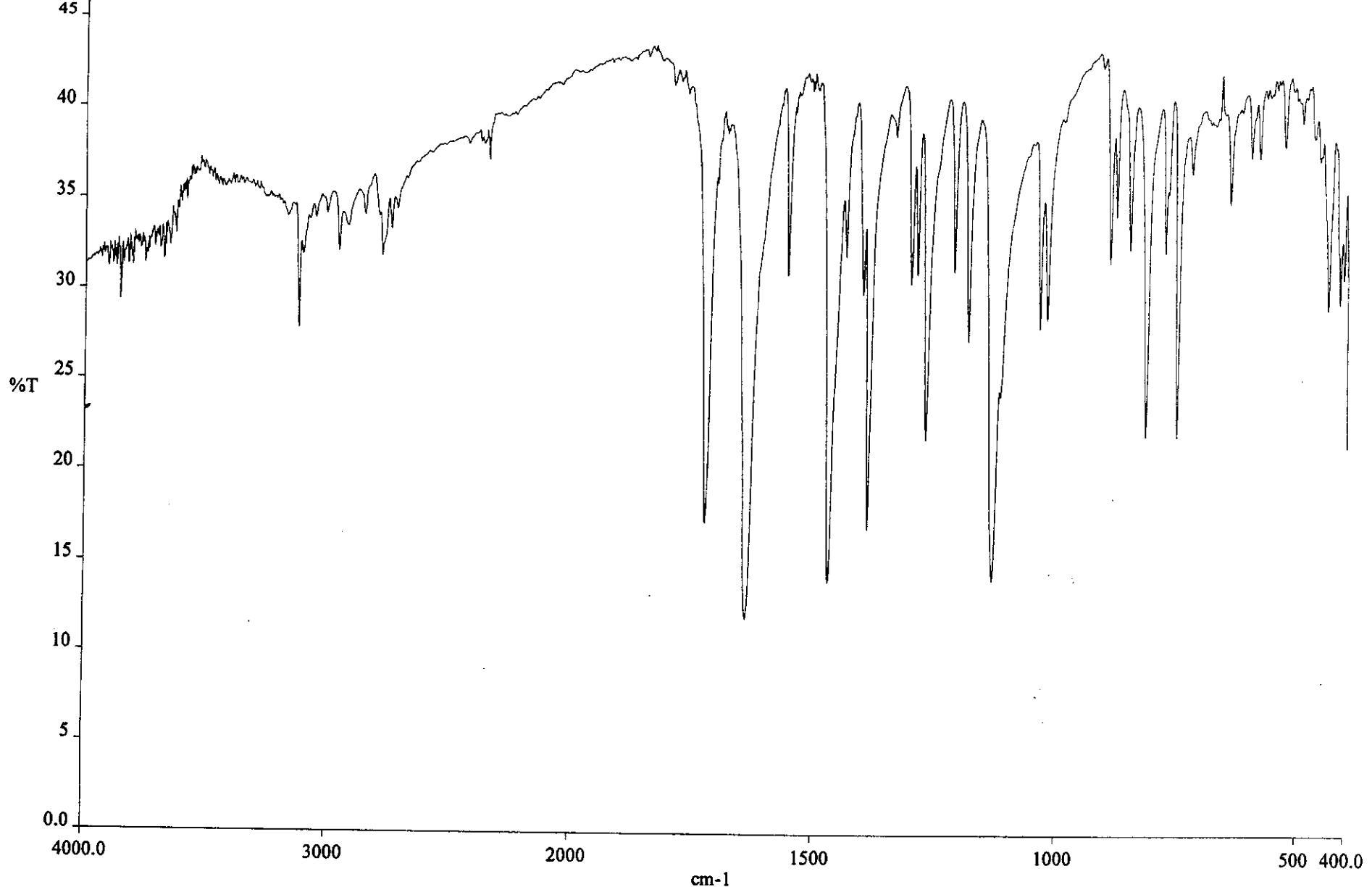


Figure 106 IR (KBr) spectrum of compound BCO1

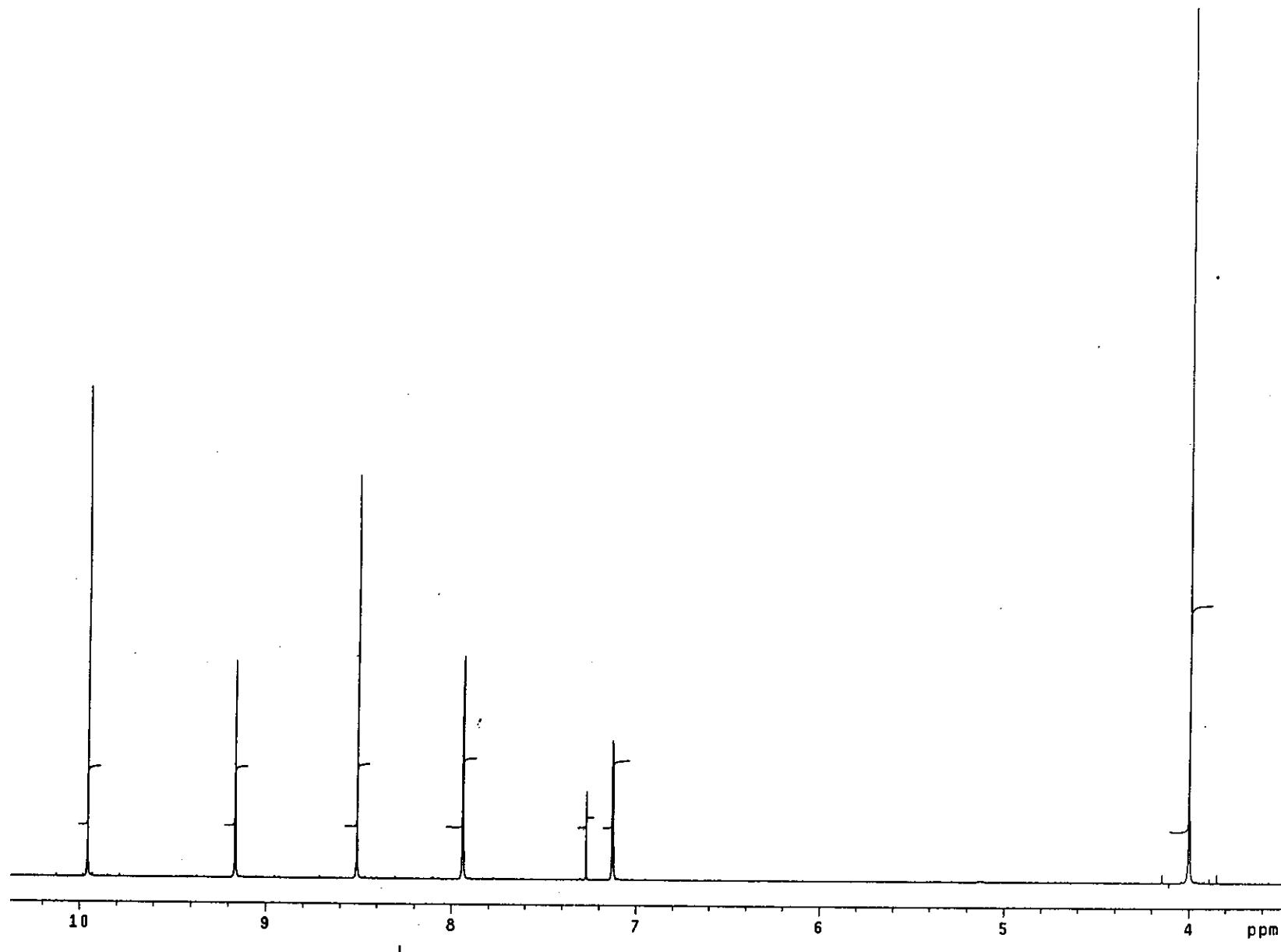


Figure 107 ${}^1\text{H}$ NMR (500 MHz, CDCl_3) spectrum of compound BCO1

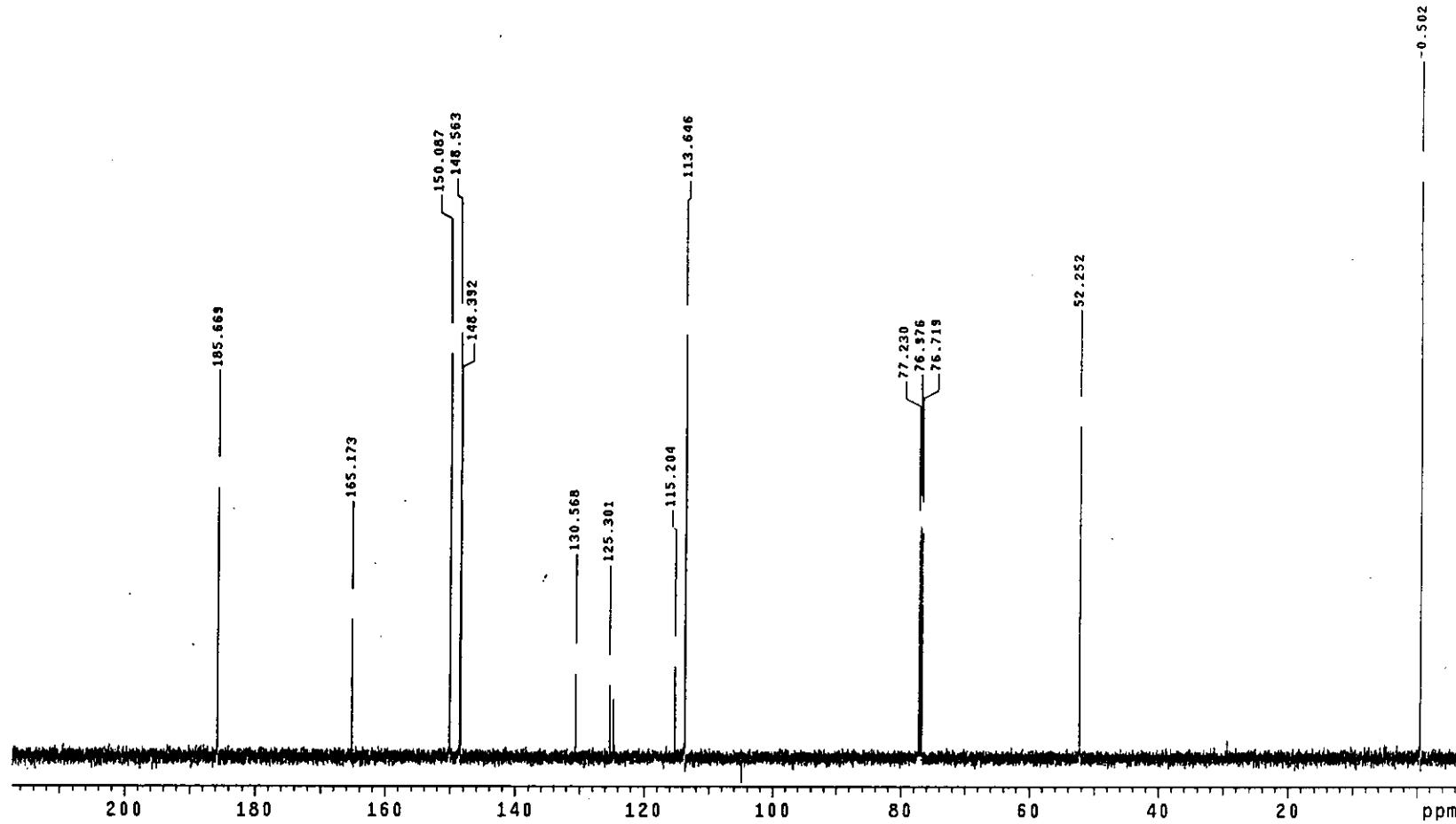


Figure 108 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound BCO1

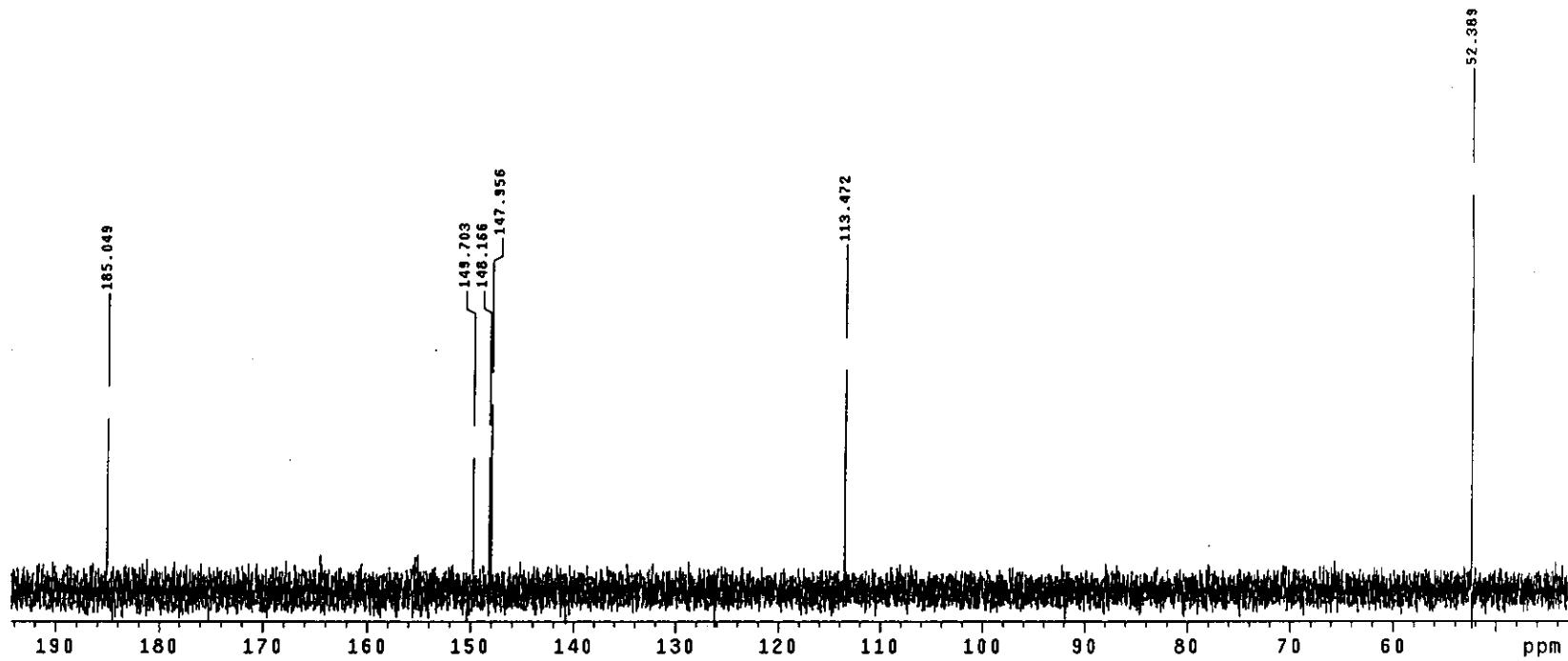


Figure 109 DEPT (CDCl_3) spectrum of compound BCO1

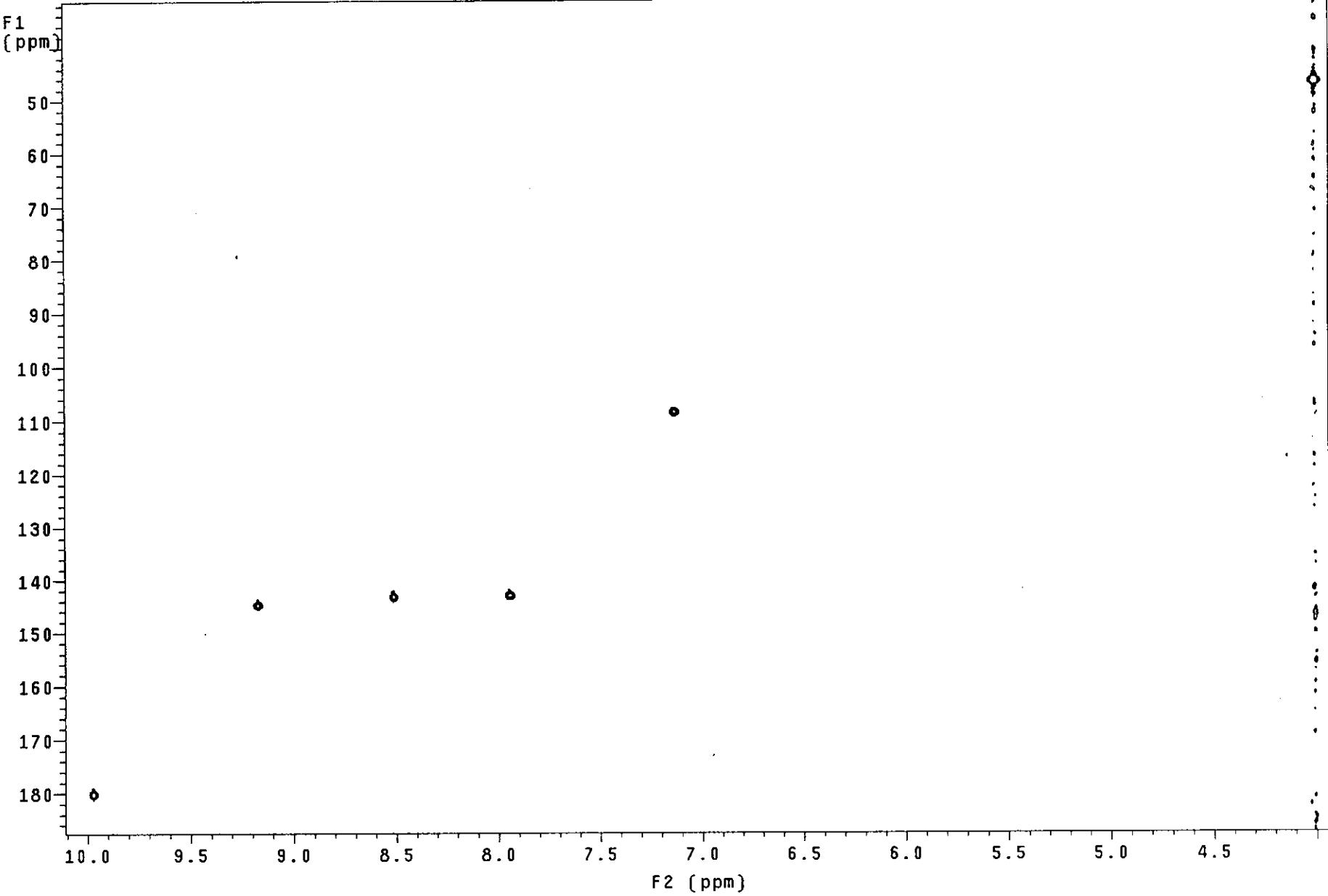


Figure 110 2D HMQC spectrum of compound **BCO1**

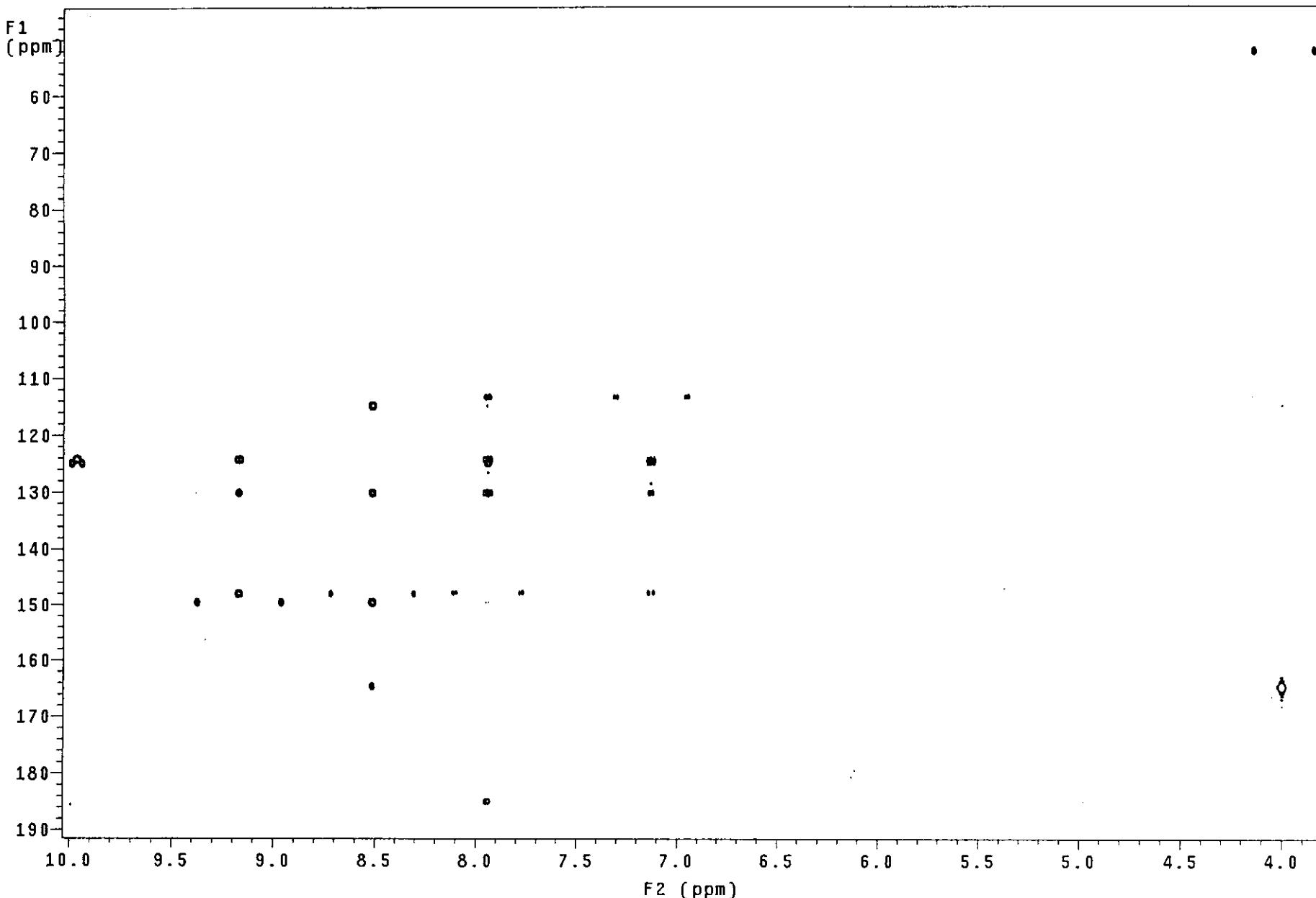


Figure 111 2D HMBC spectrum of compound BCO1

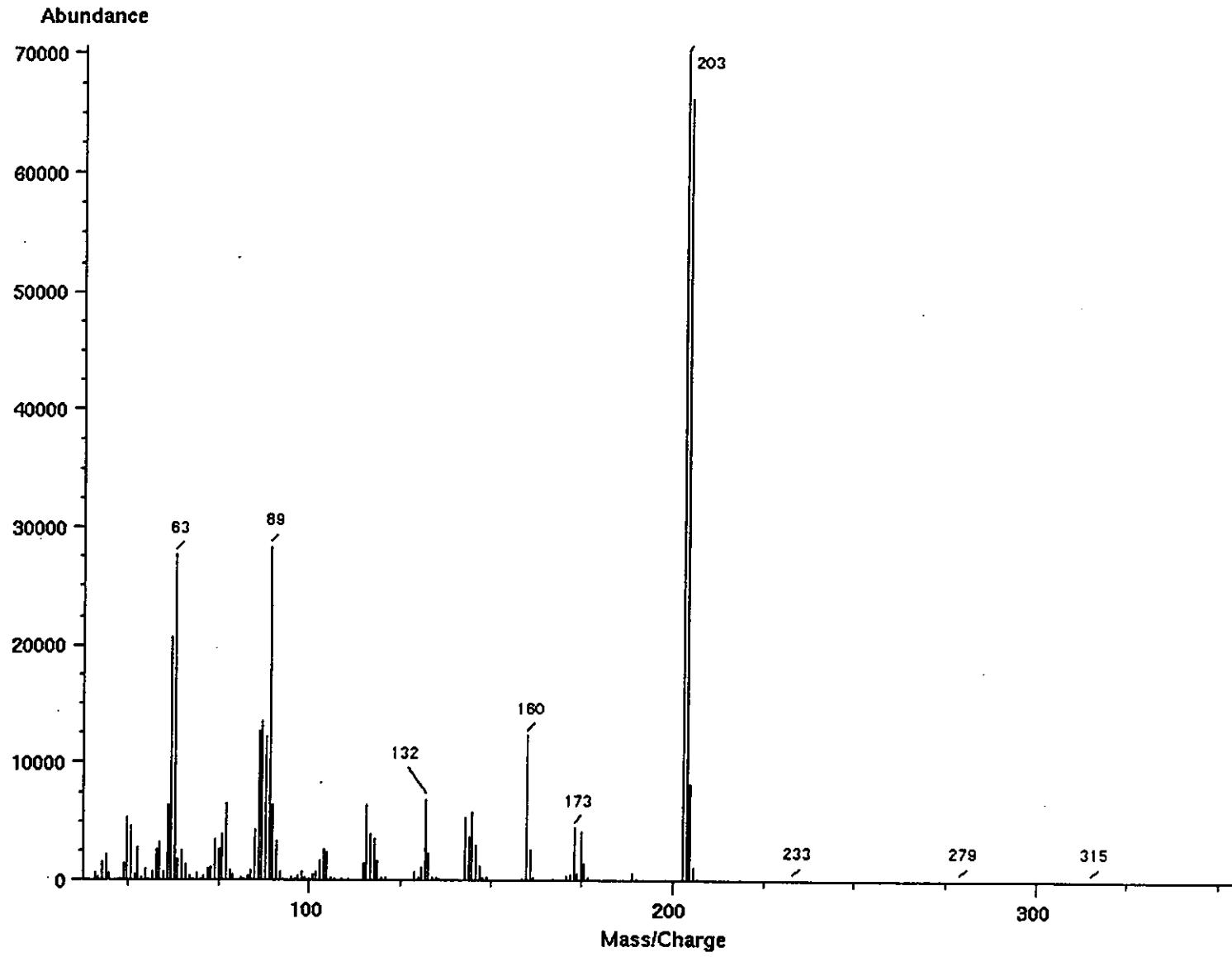


Figure 112 Mass spectrum of compound BCO1

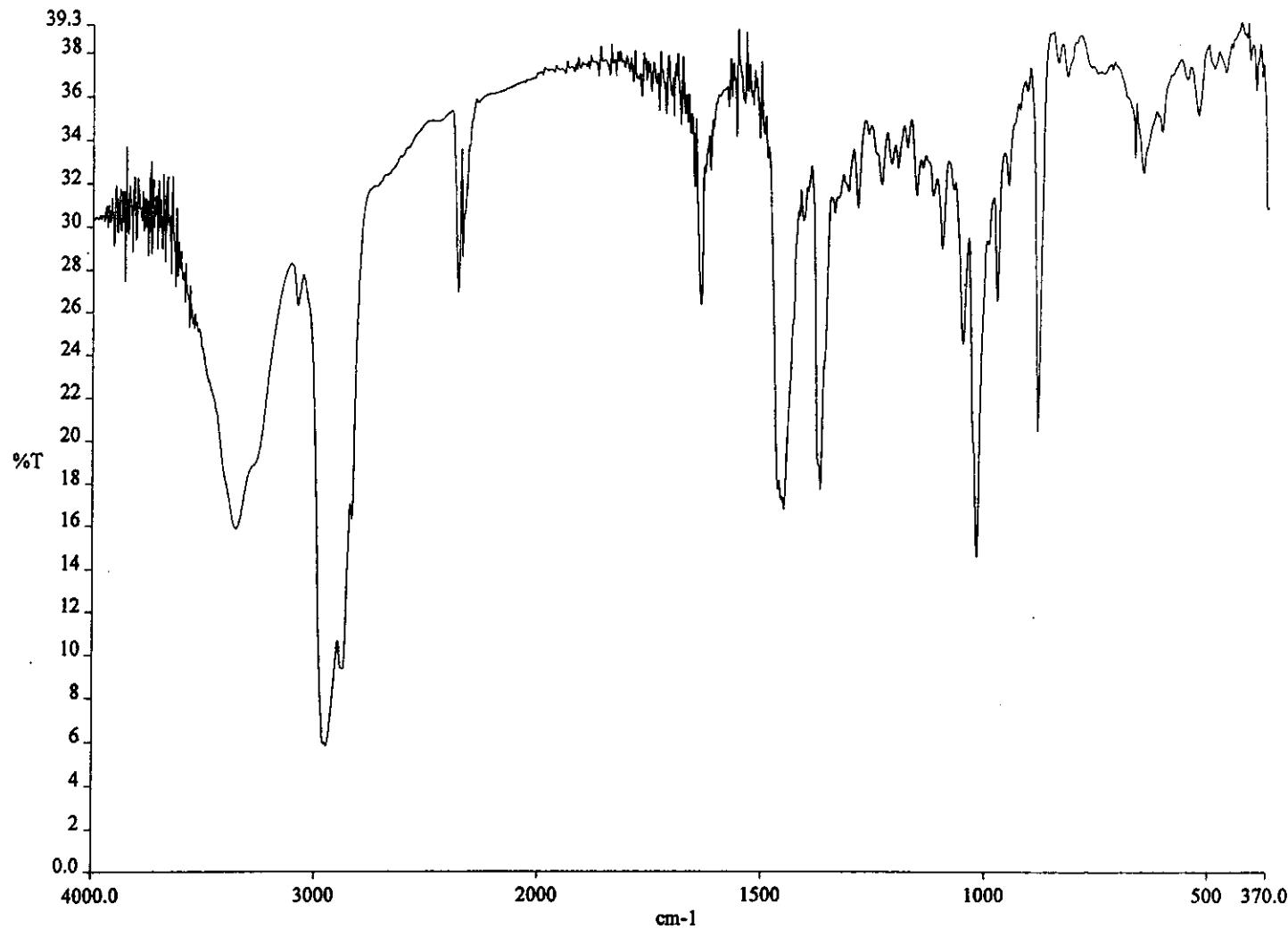


Figure 113 IR (KBr) spectrum of compound BCO₂

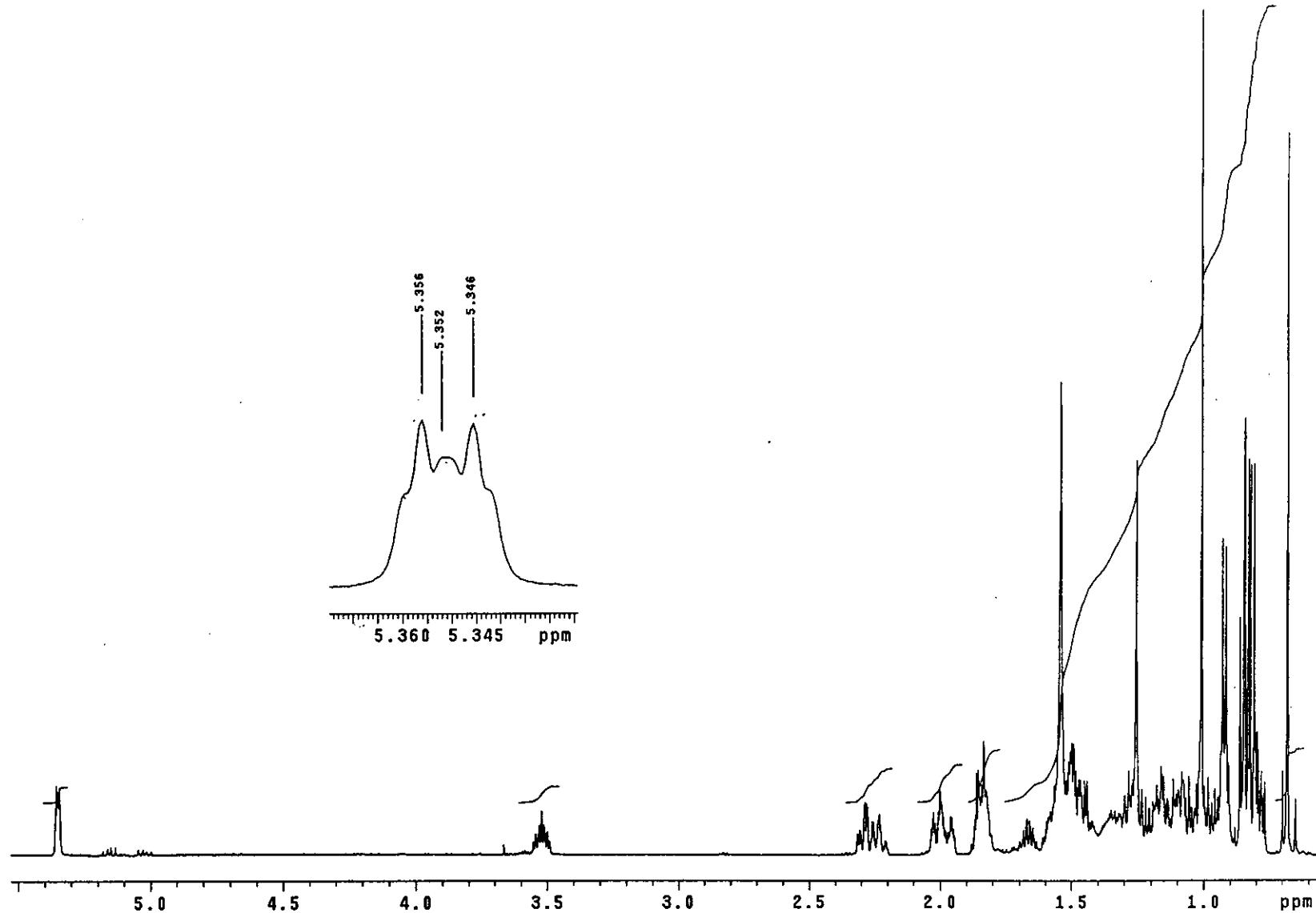


Figure 114 ^1H NMR (500 MHz, CDCl_3) spectrum of compound BCO2

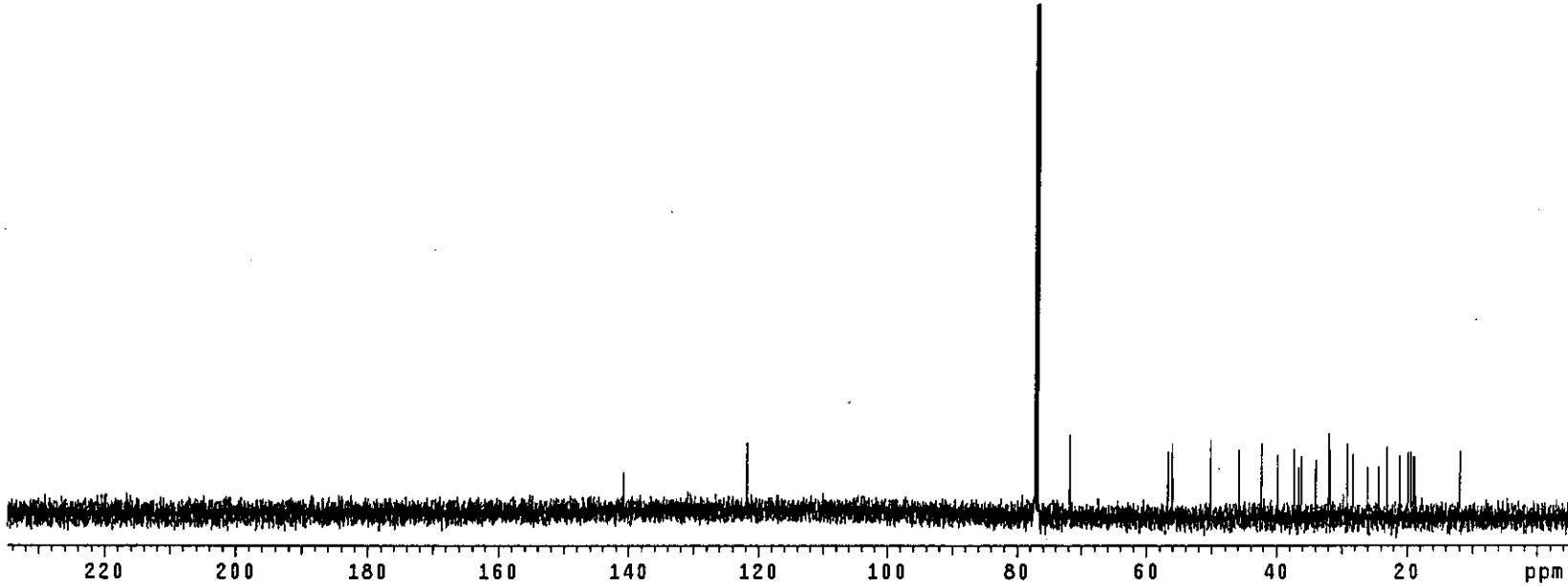


Figure 115 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound BCO2

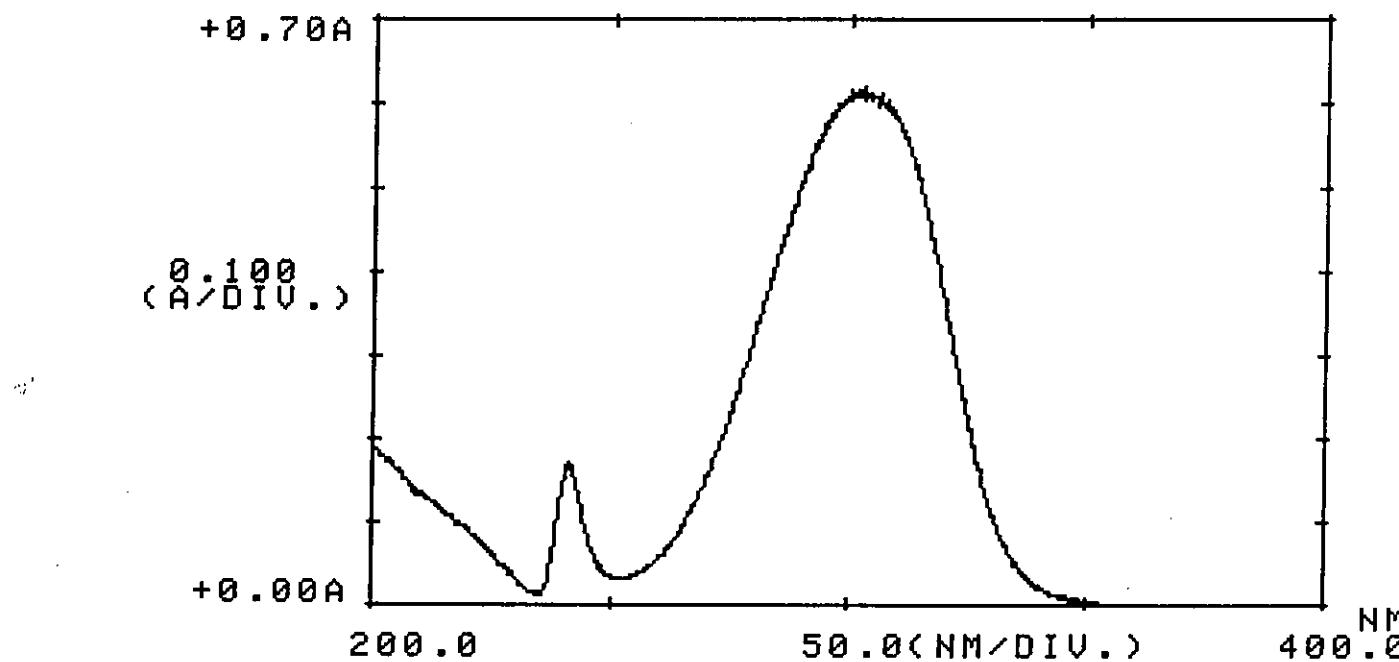


Figure 116: UV (CHCl_3) spectrum of compound **BCO3**

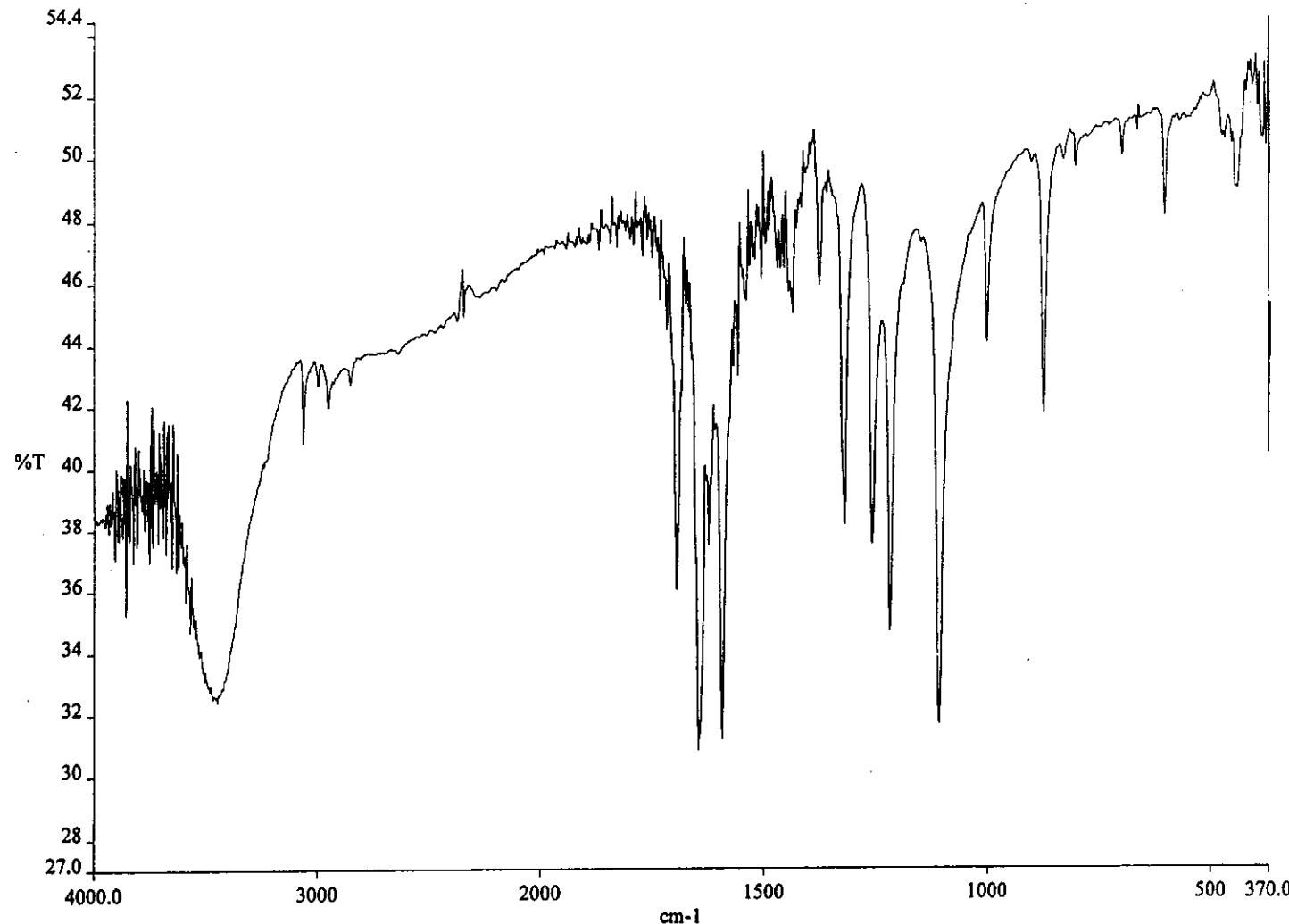


Figure 117 IR (KBr) spectrum of compound BCO₃

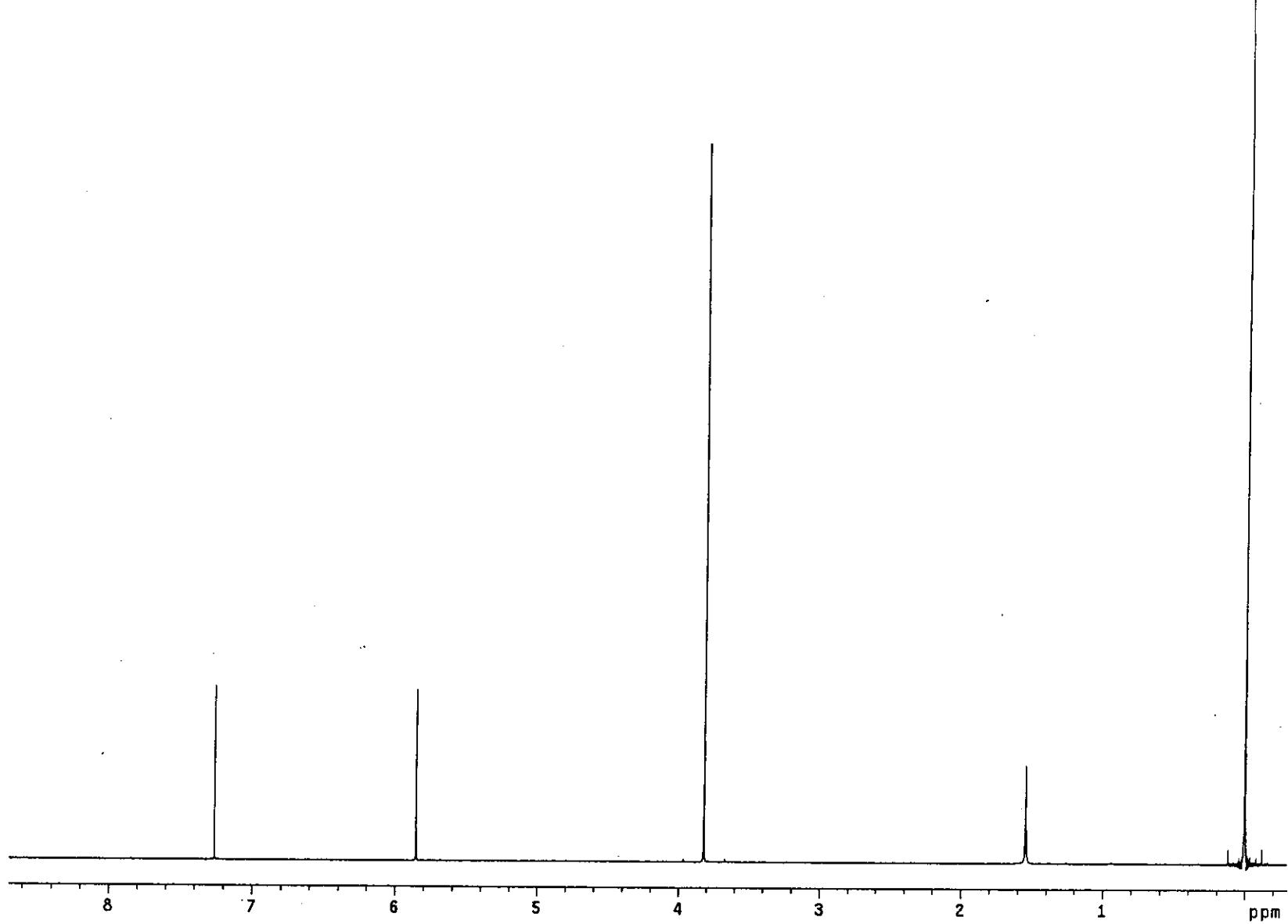


Figure 118 ^1H NMR (500 MHz, CDCl_3) spectrum of compound BCO3

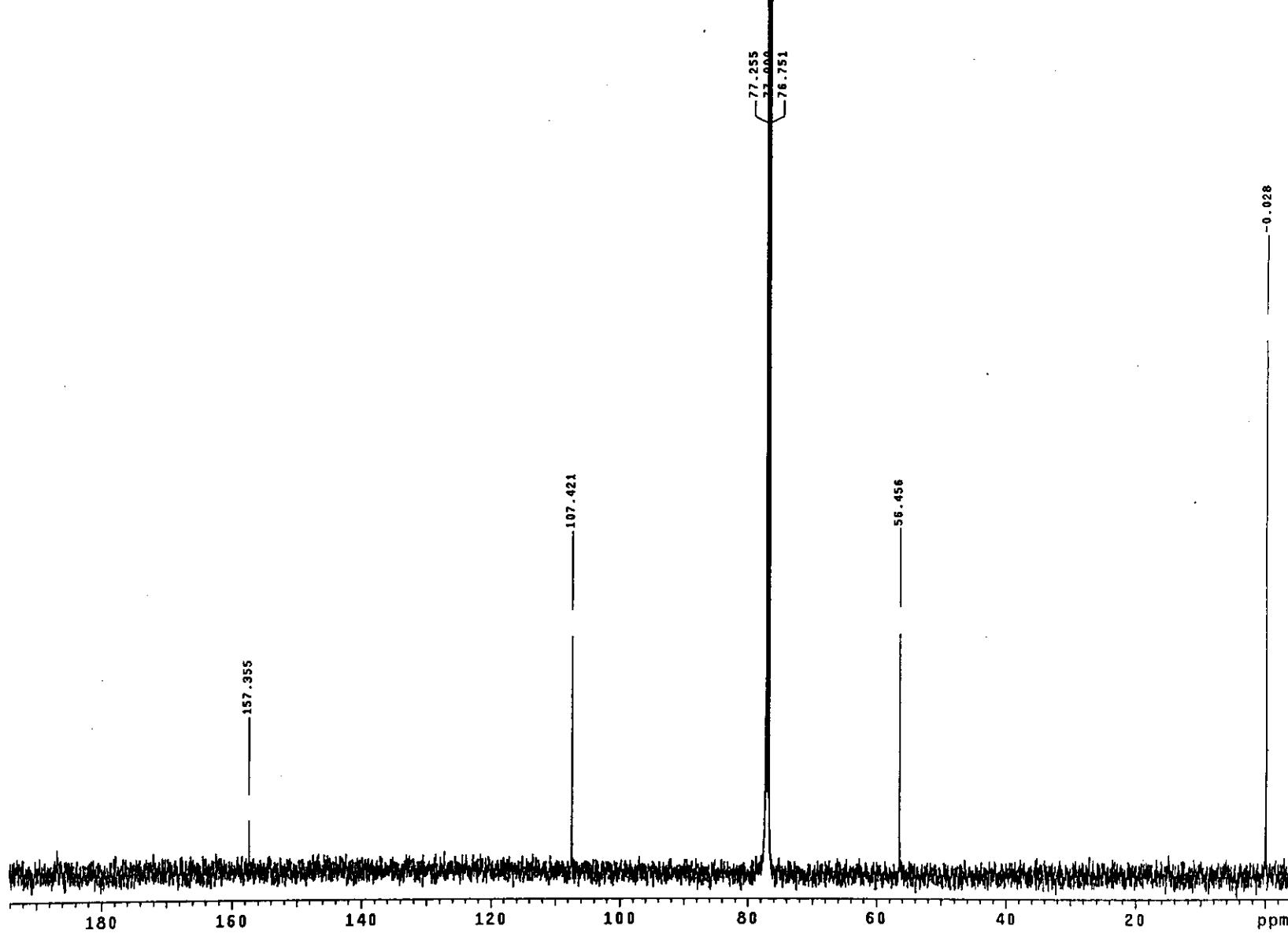


Figure 119 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound BCO3

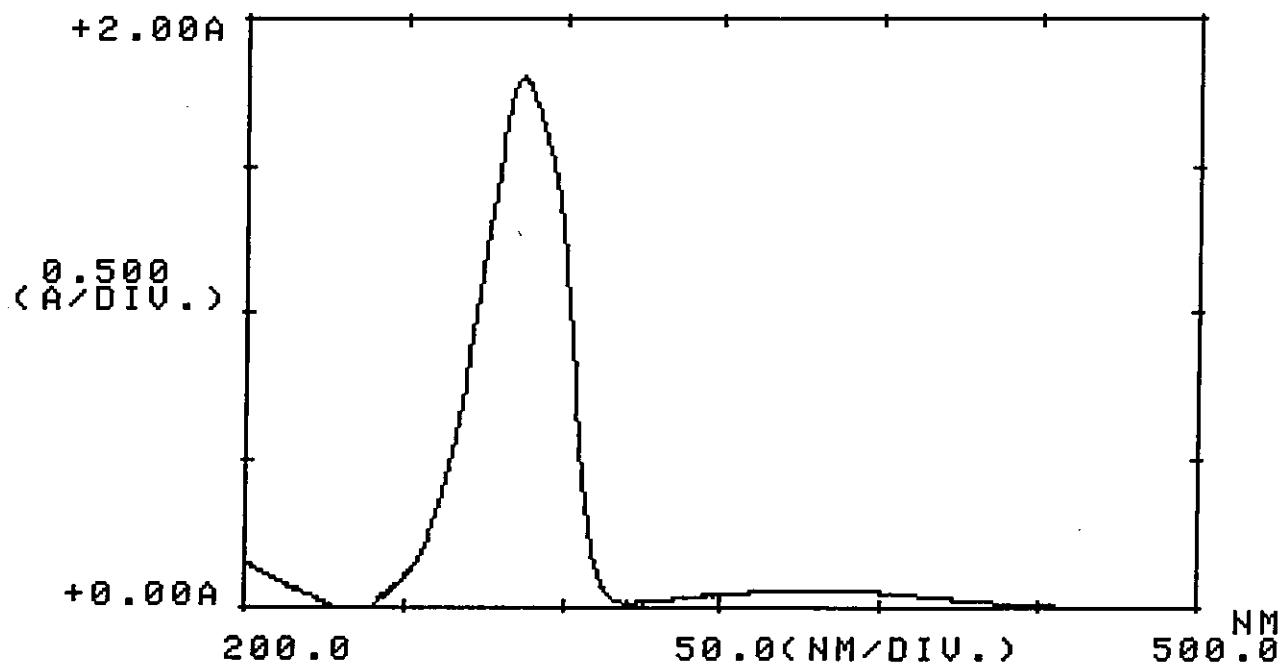


Figure 120 UV (CHCl_3) spectrum of compound BCO4

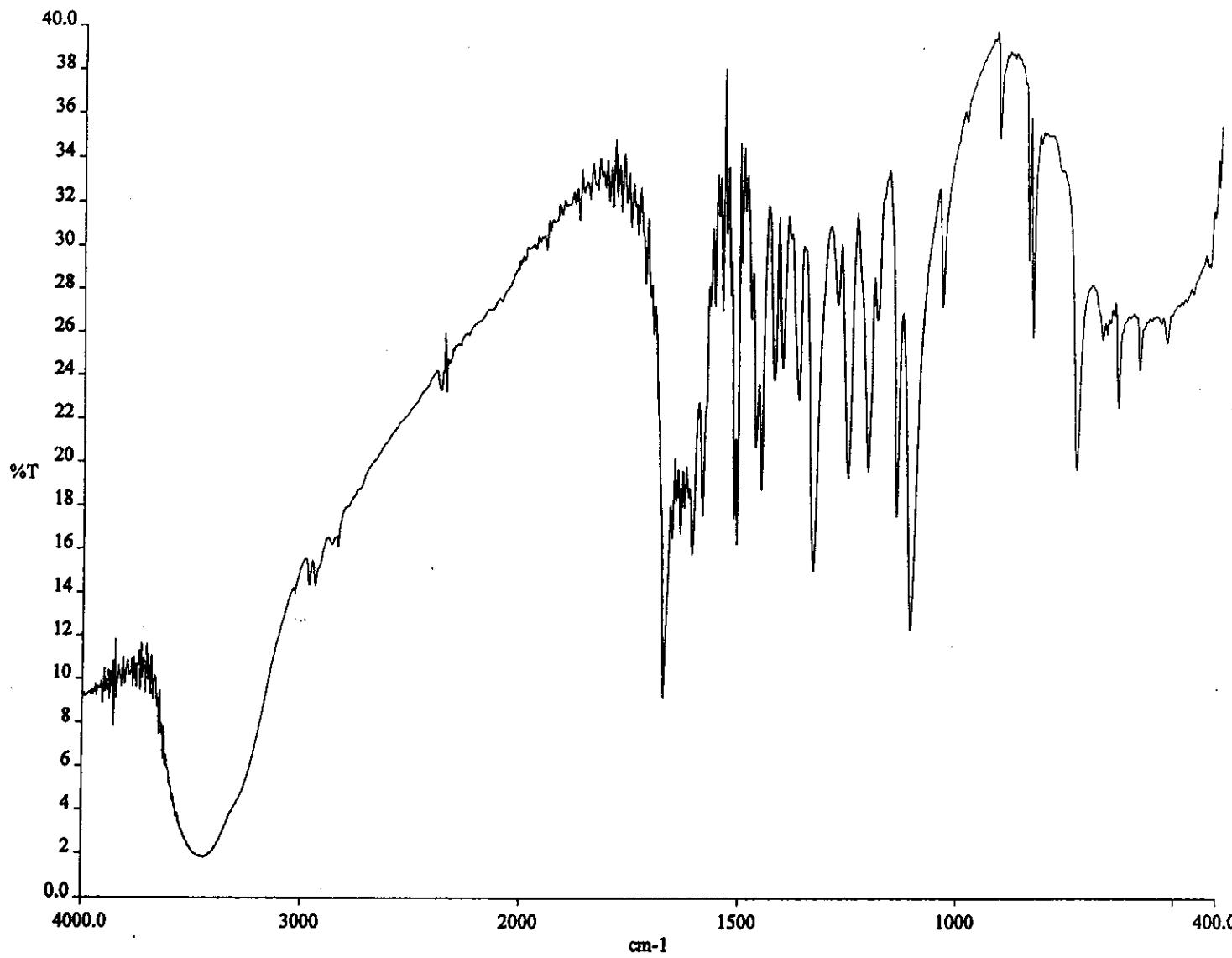


Figure 121 IR (KBr) spectrum of compound BCO4

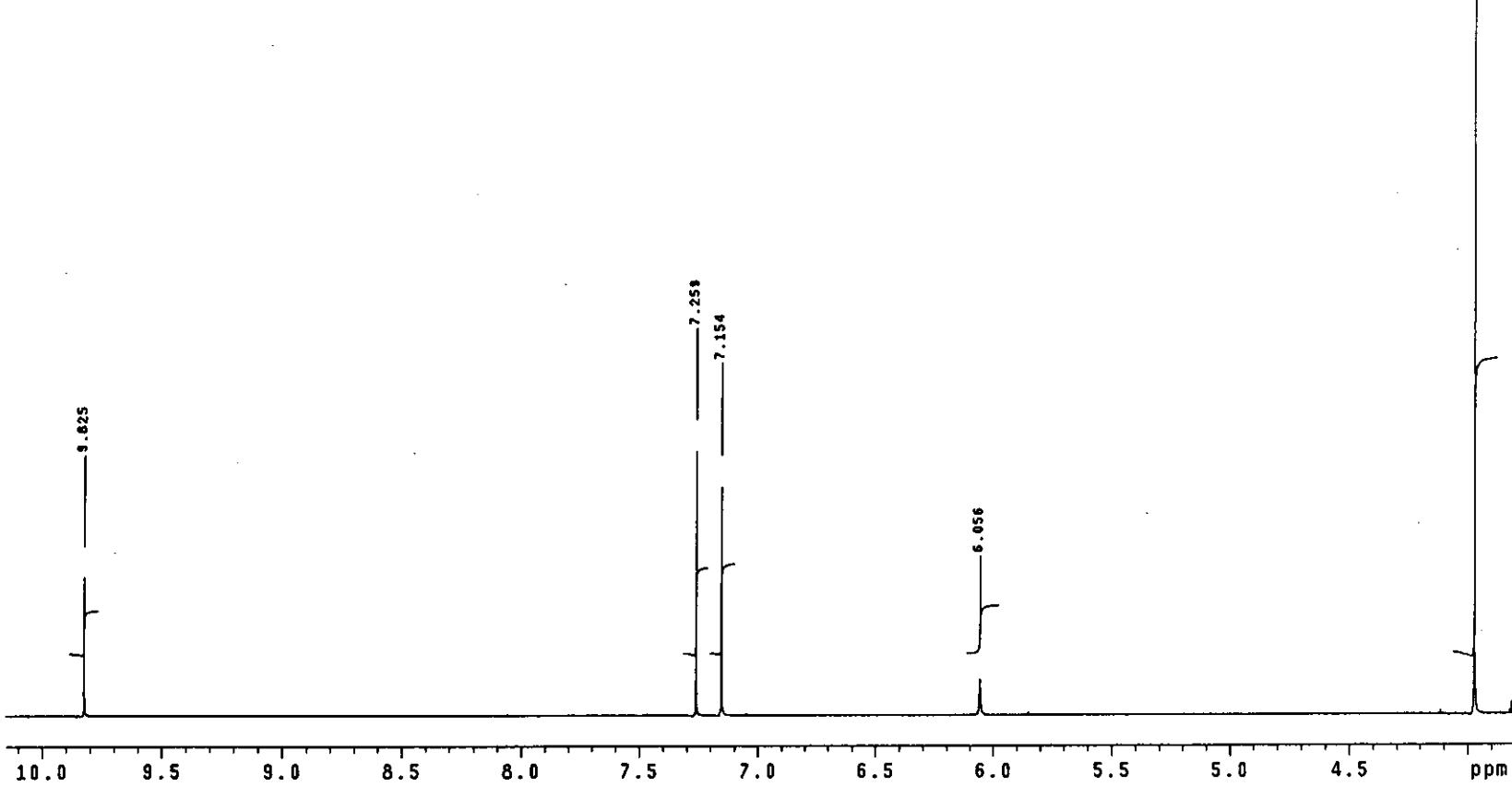


Figure 122 ^1H NMR (500 MHz, CDCl_3) spectrum of compound **BCO4**

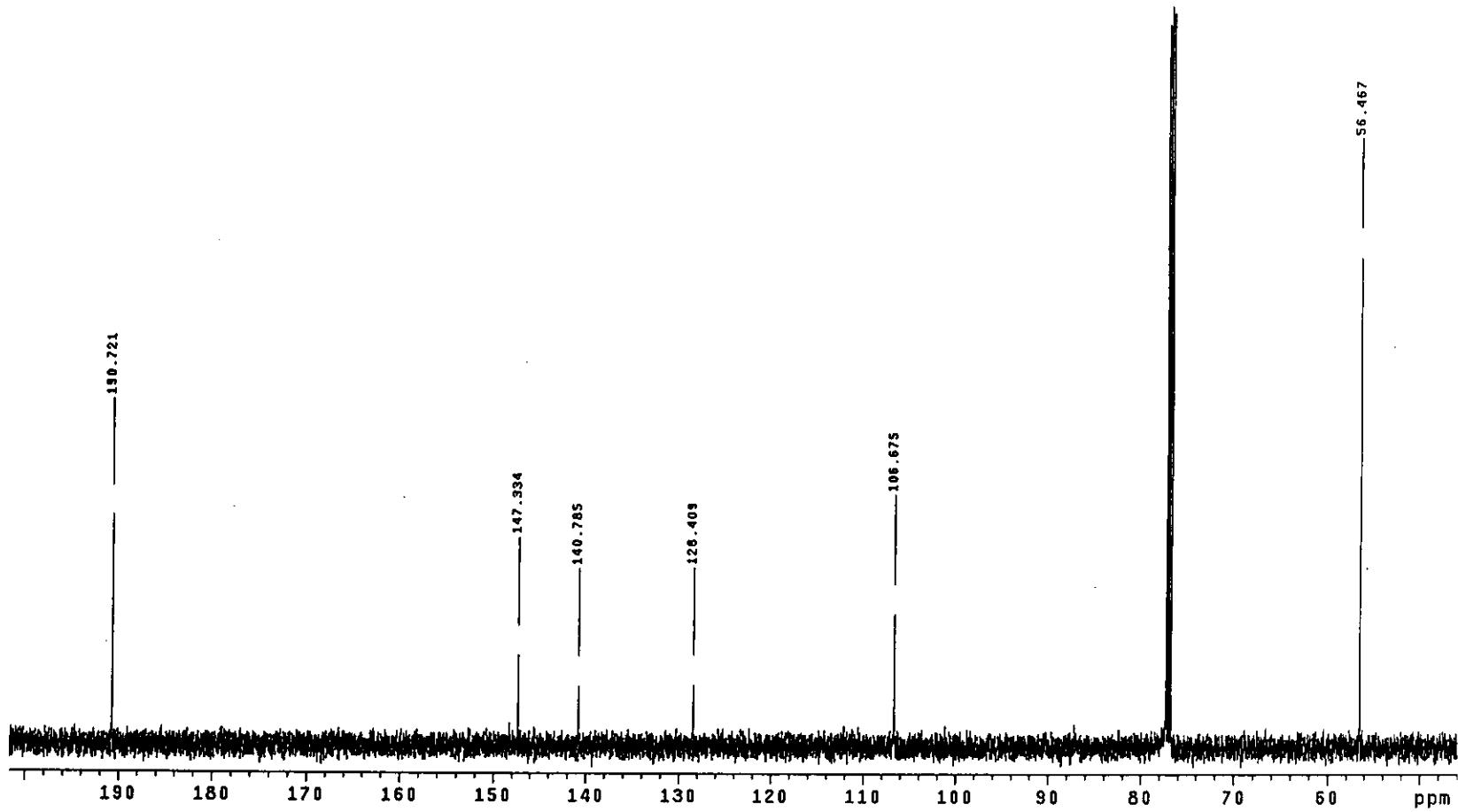


Figure 123 ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound BCO4