

10.1071/CH10056_AC

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Australian Journal of Chemistry 2010, 63(5), 742–760

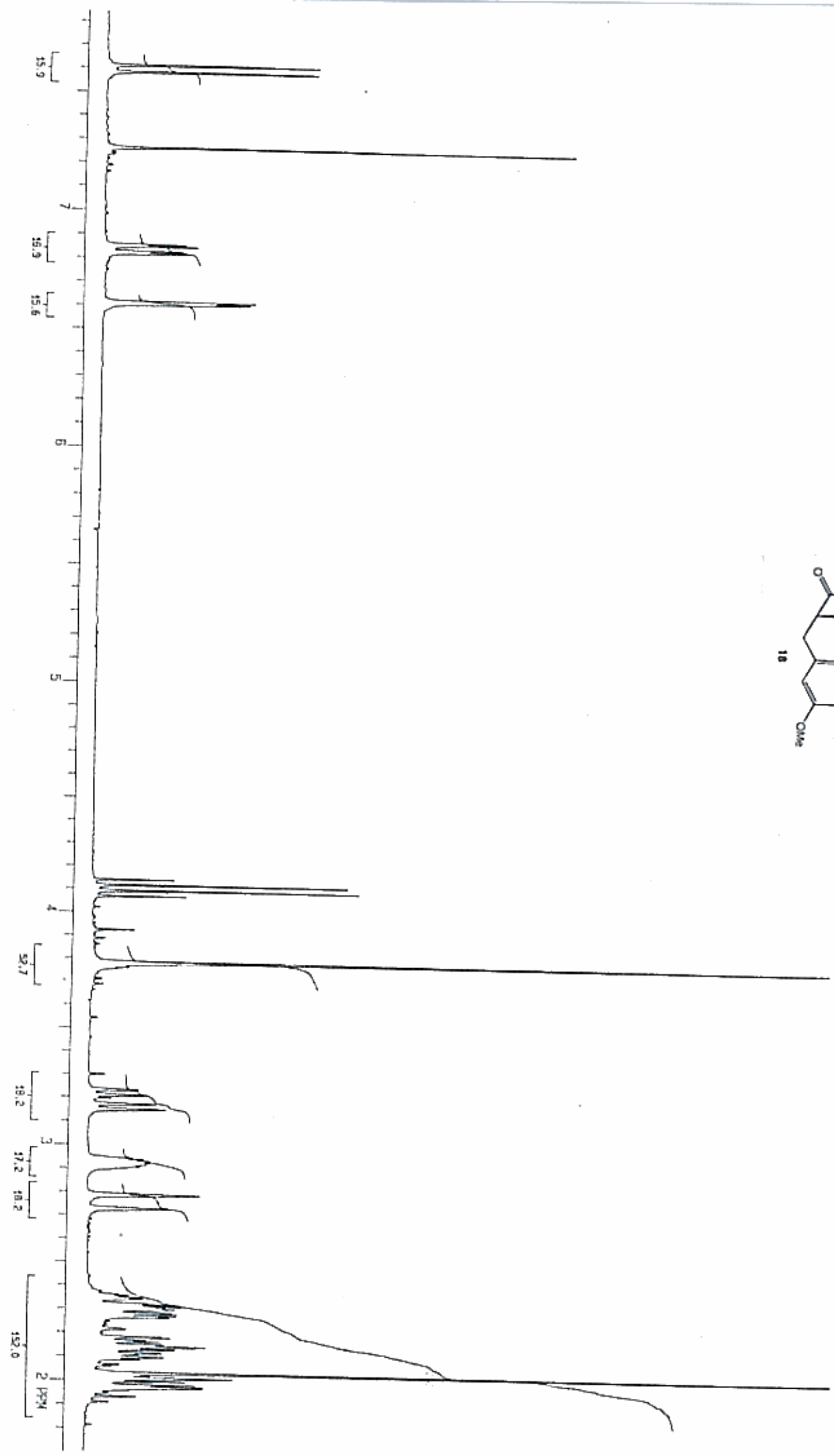
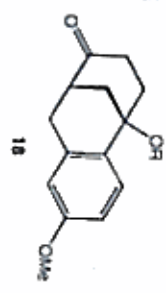
Total Synthesis of the Galbulimima Alkaloid (\pm)-GB 13

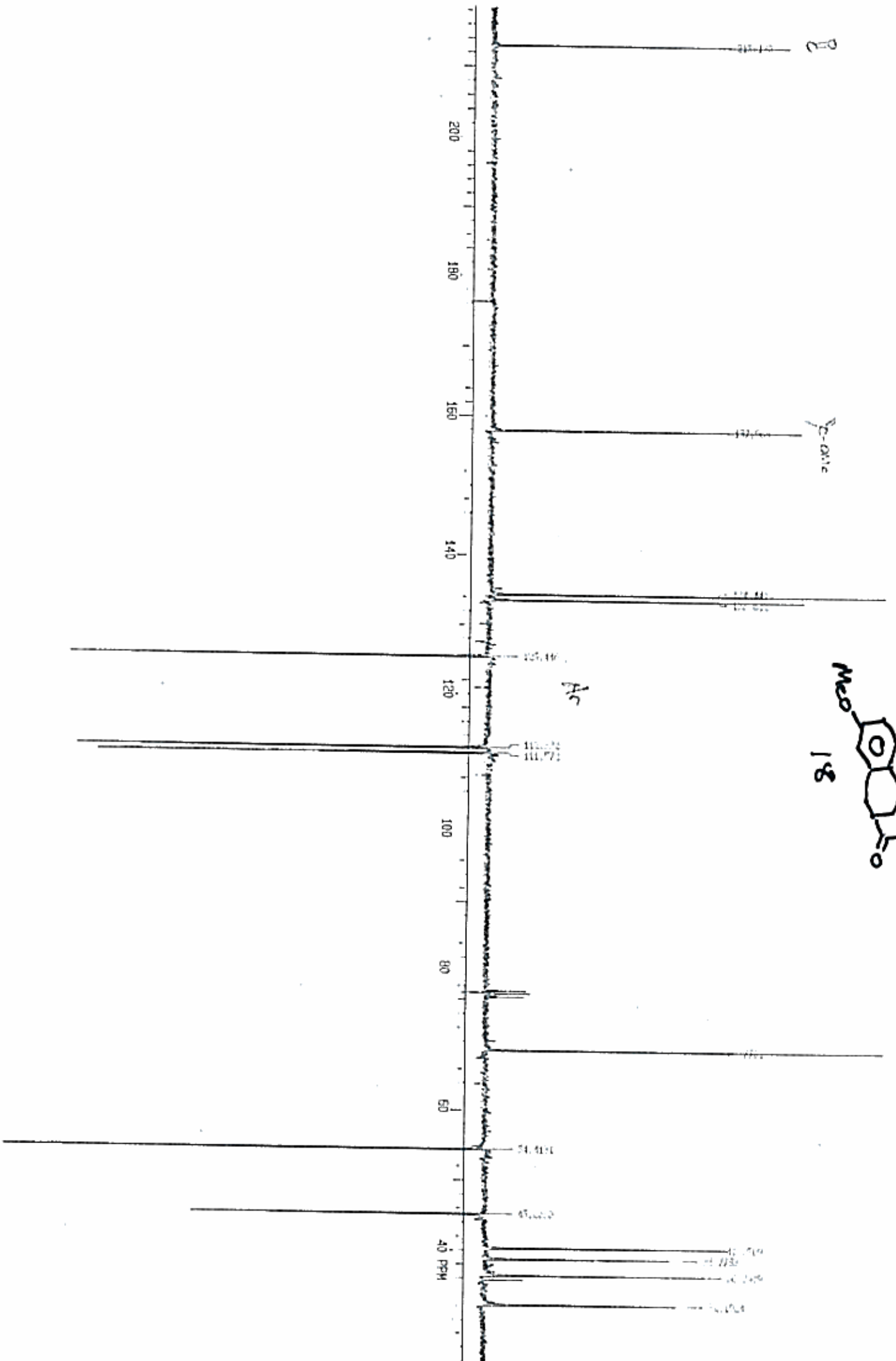
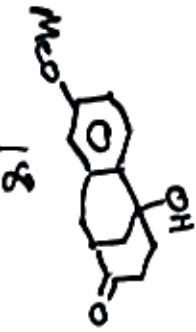
Matthew M. W. McLachlan,^A Patrick D. O'Connor,^A Kelly A. Fairweather,^A Anthony C. Willis,^A Lewis N. Mander^{A,B}

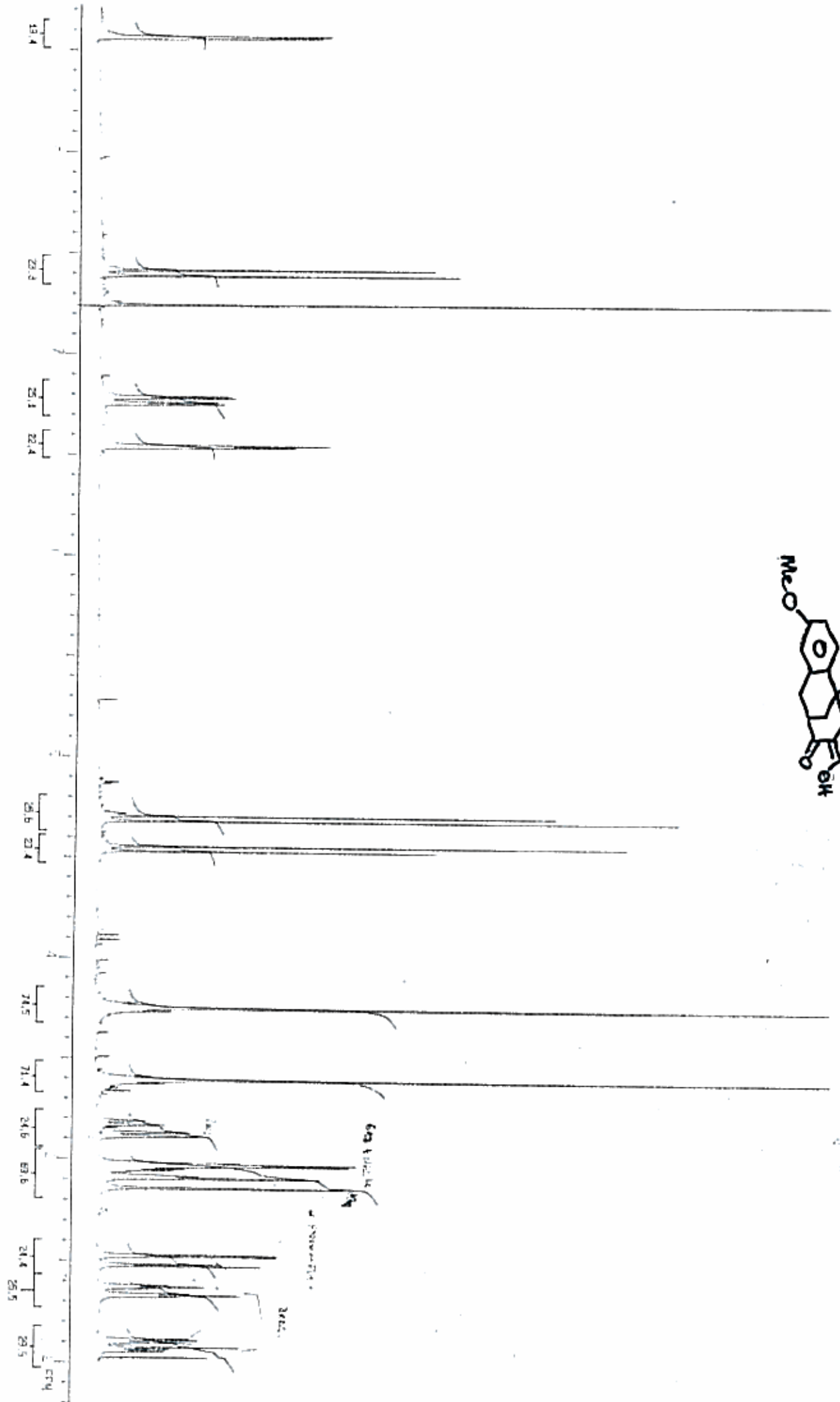
^AResearch School of Chemistry, Australian National University, Canberra, ACT 0200, Australia.

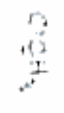
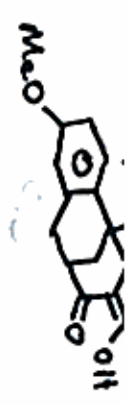
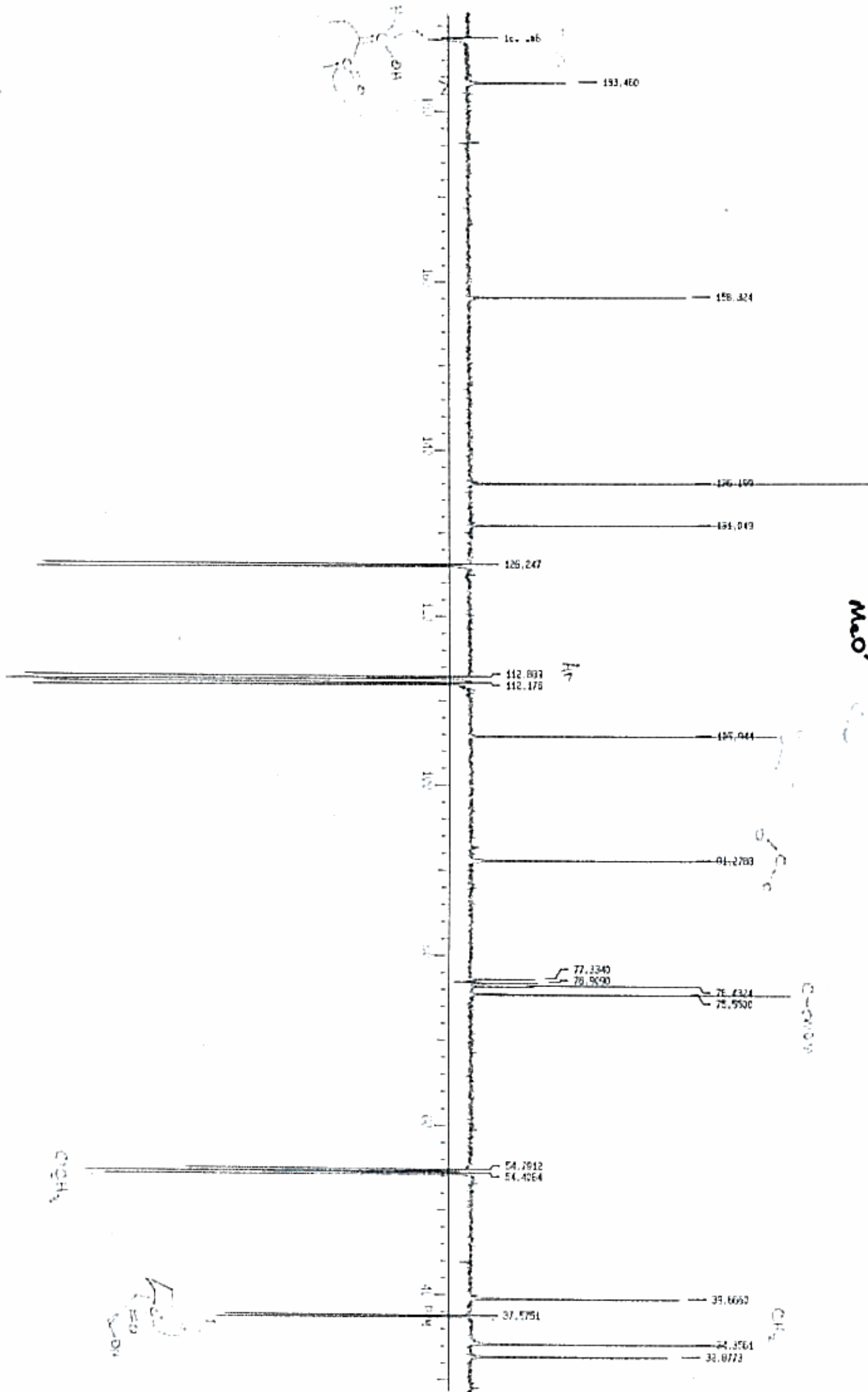
^BCorresponding author. Email: mander@rsc.anu.edu.au

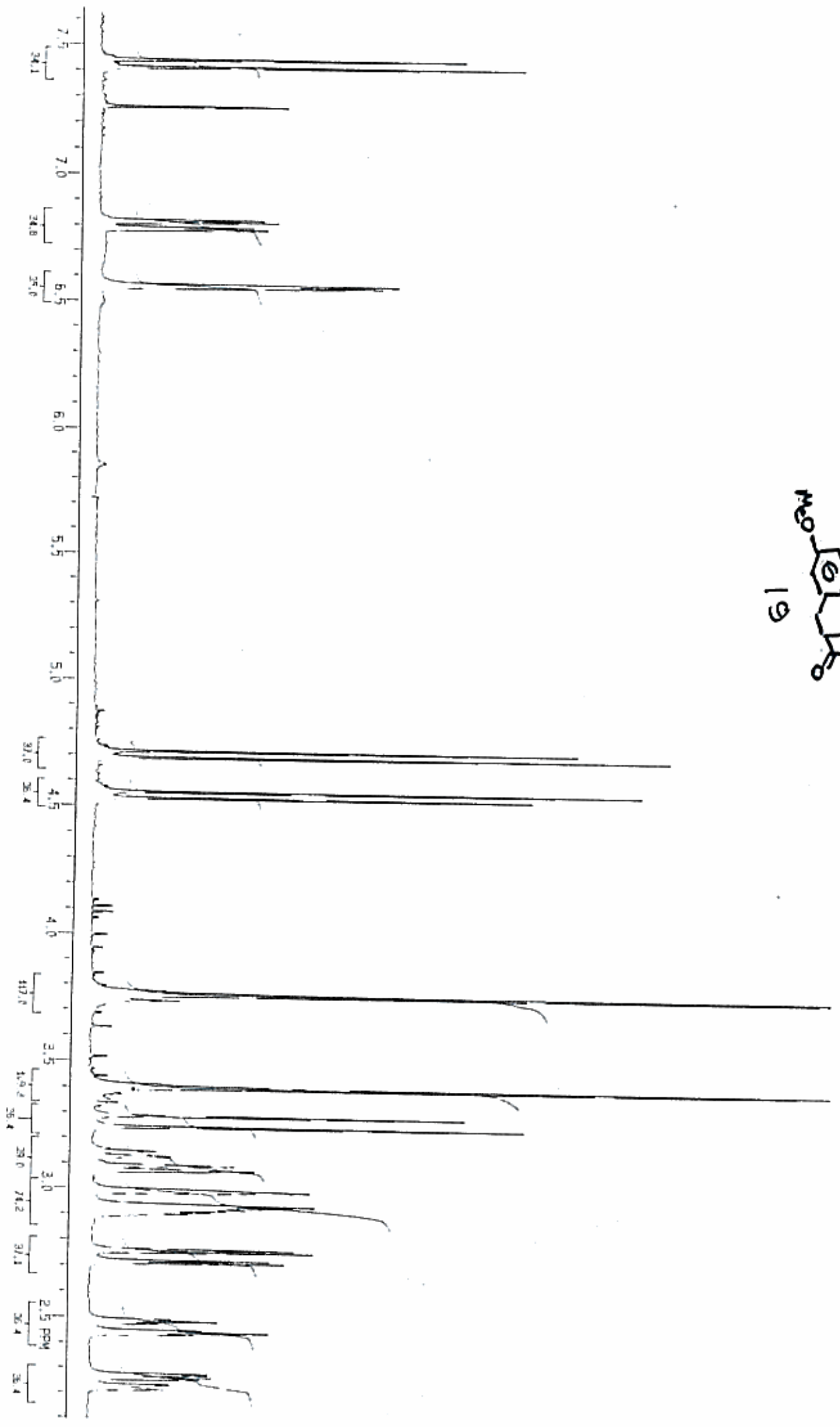
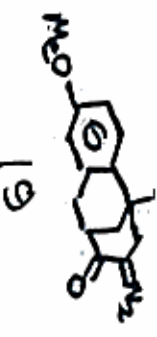
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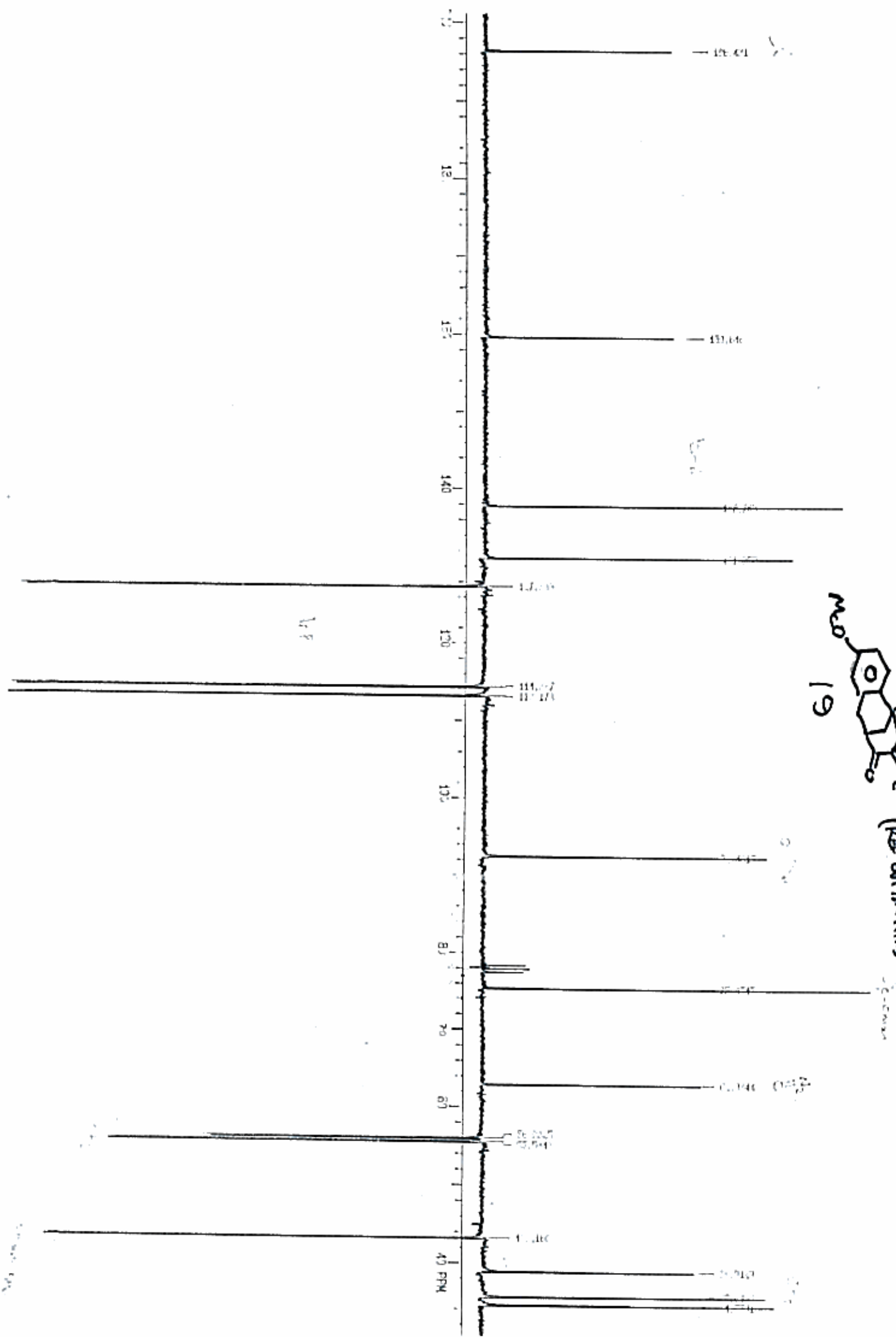


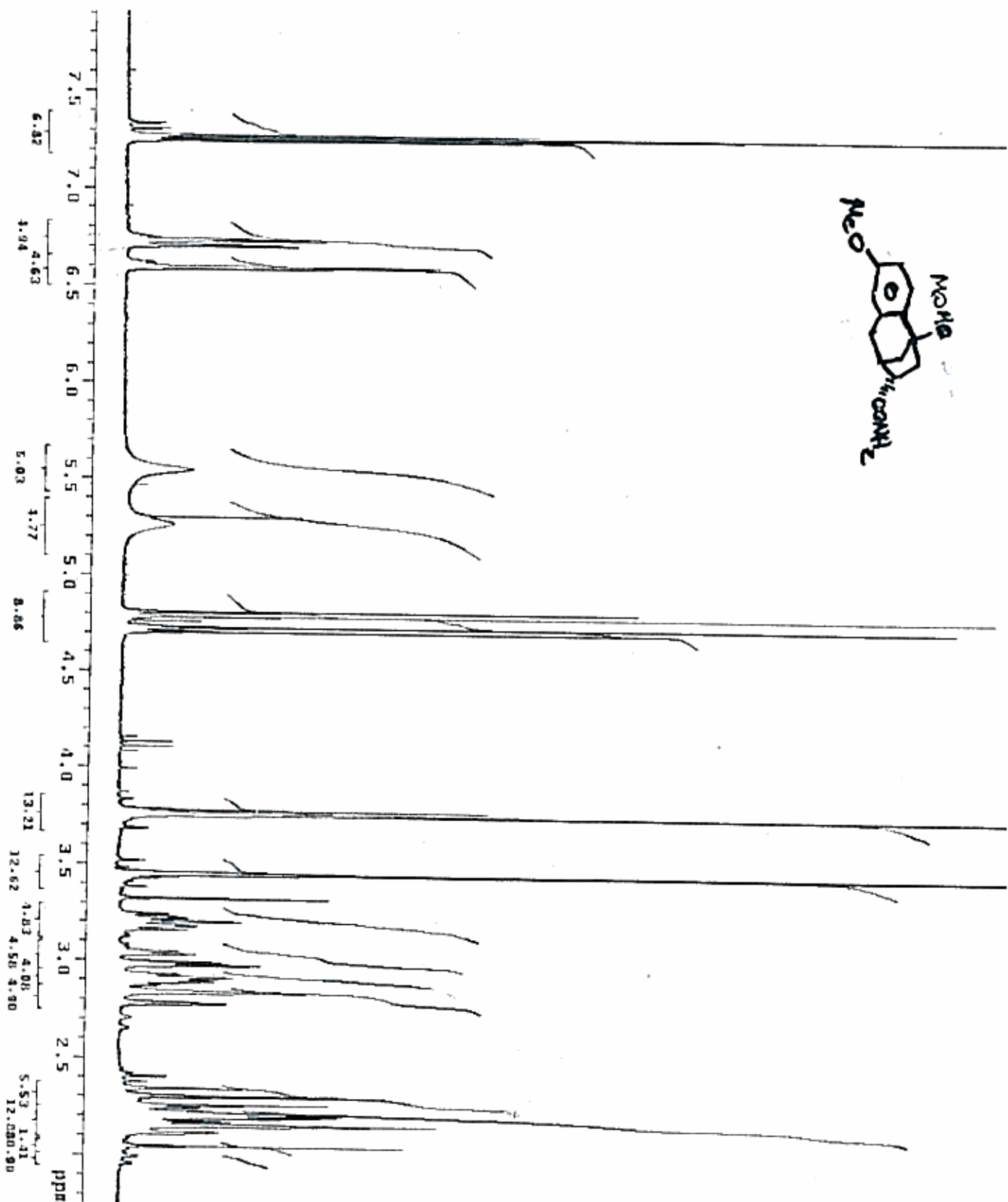


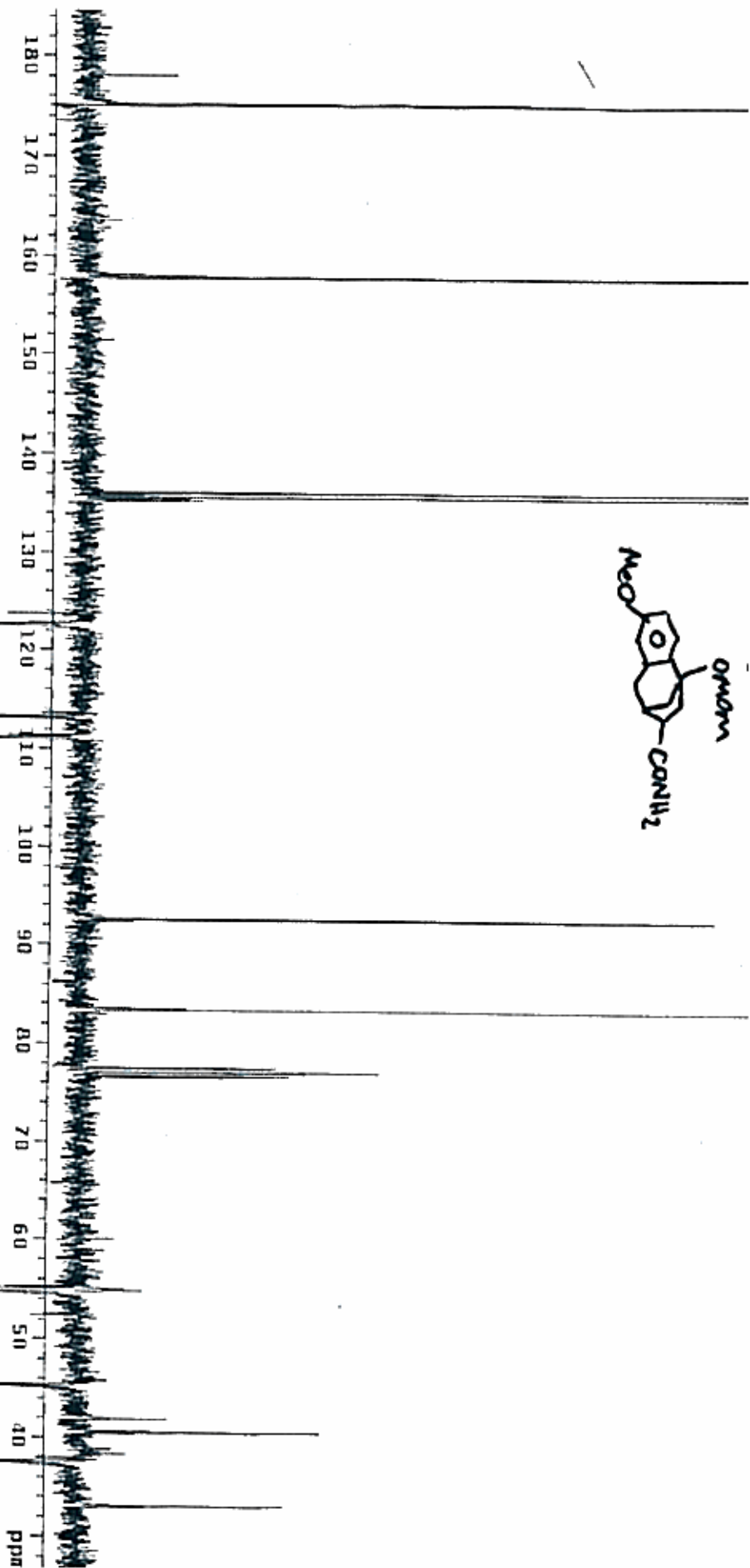


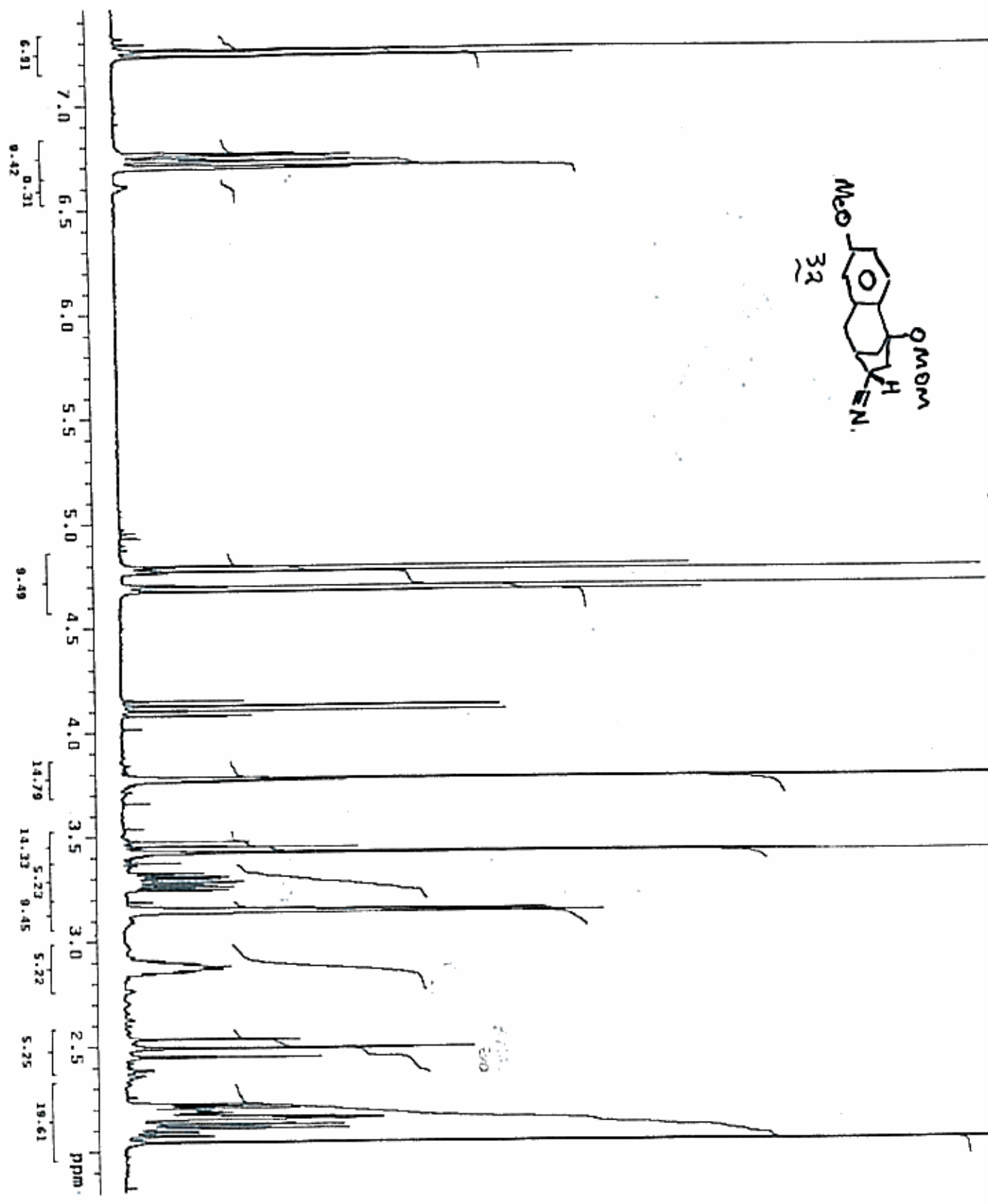
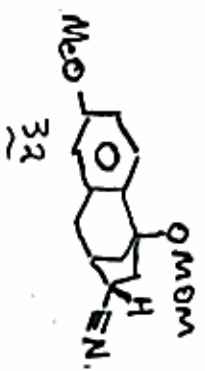


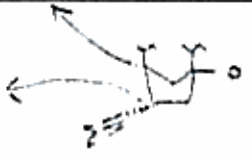
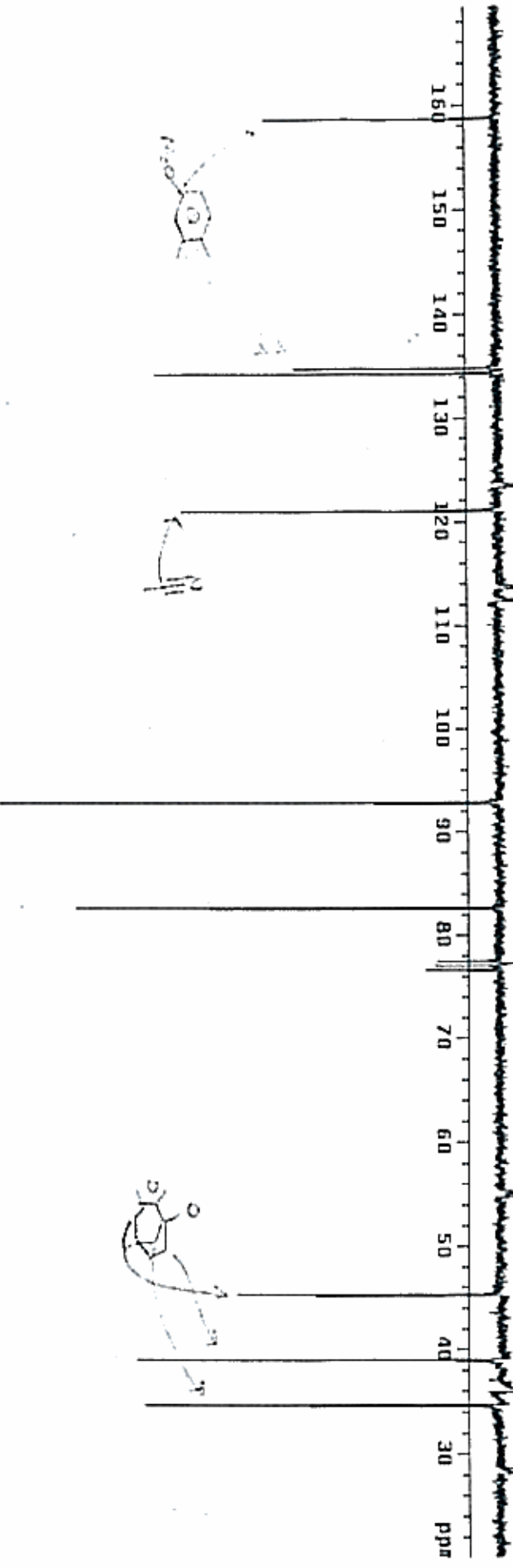
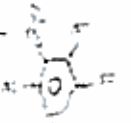


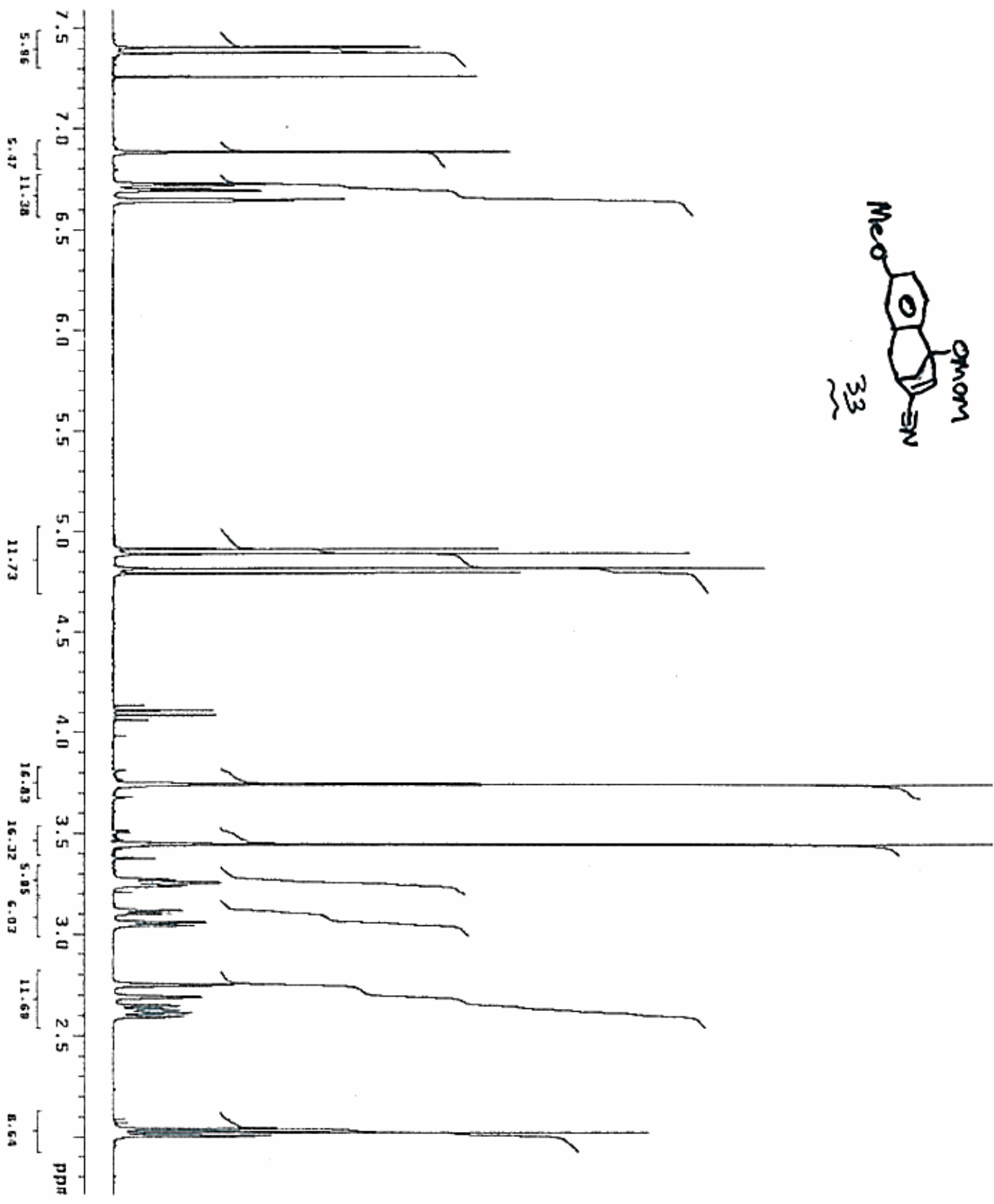
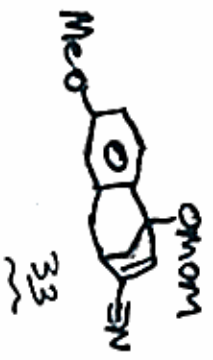


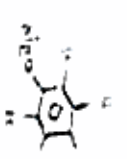
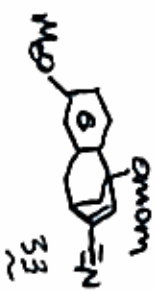




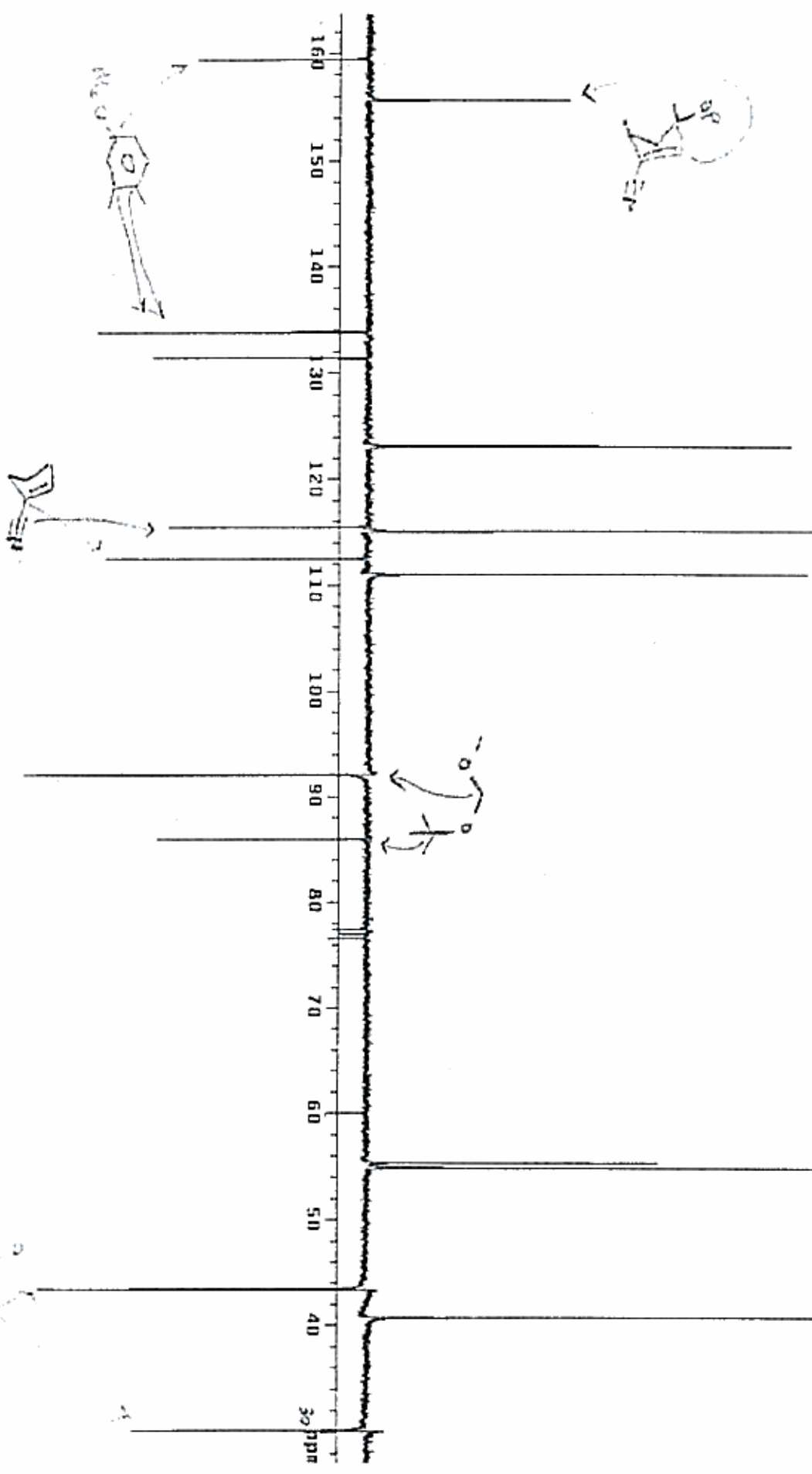


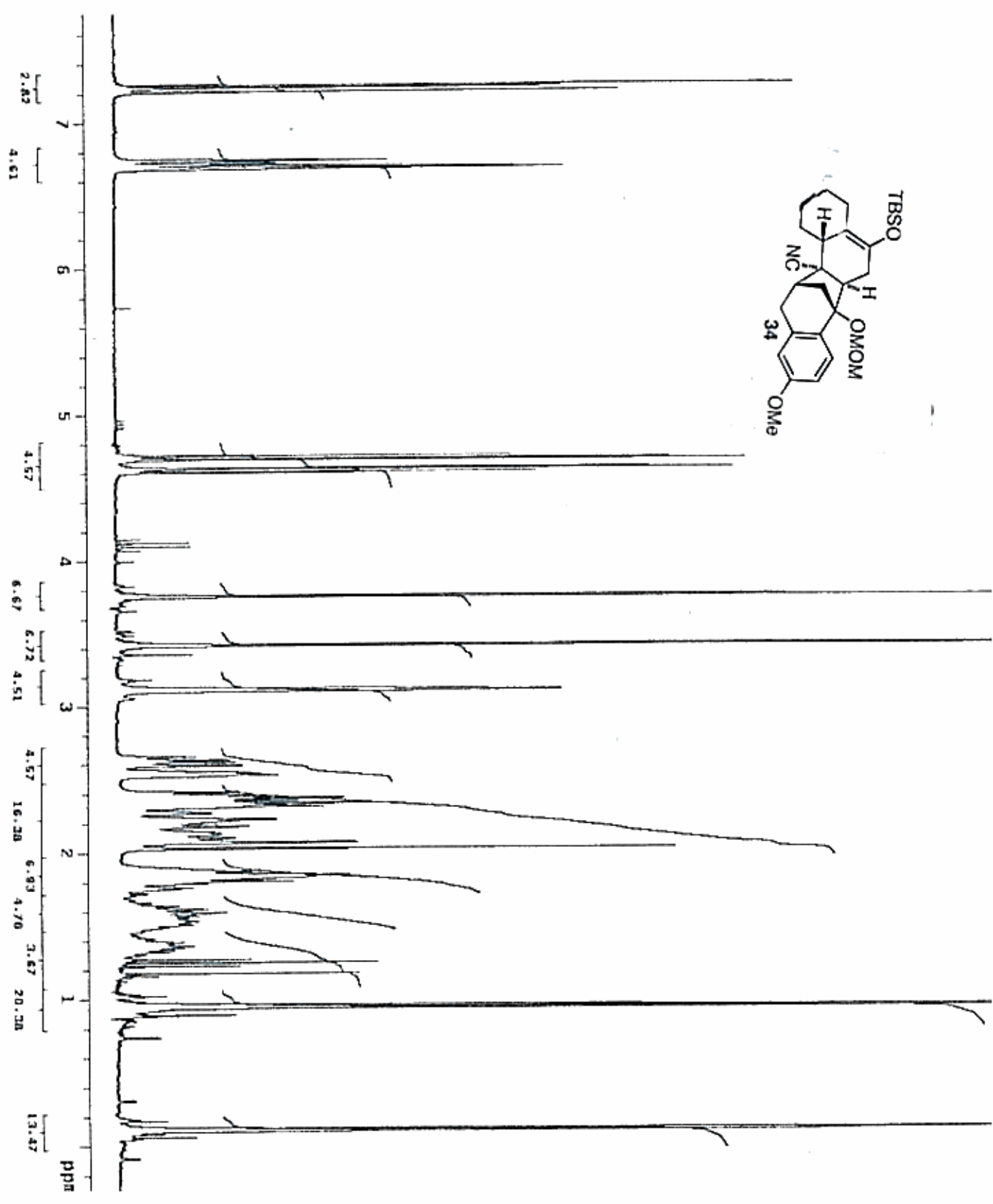
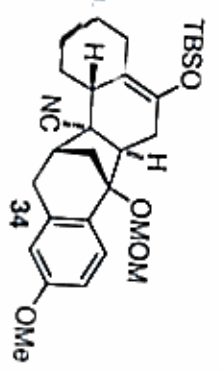


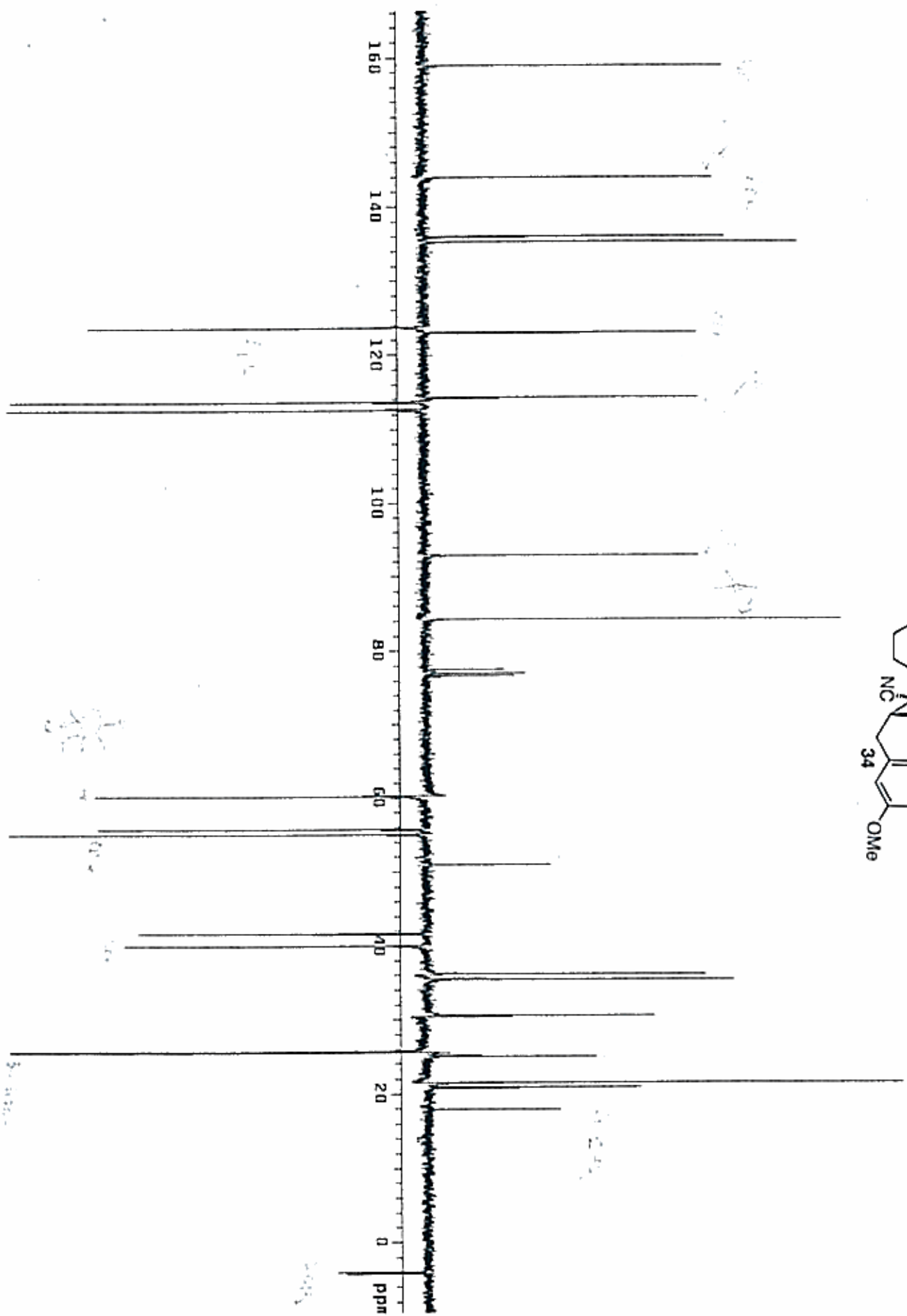
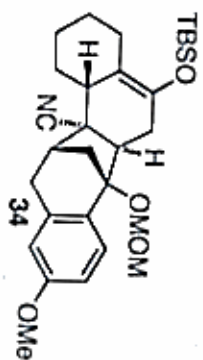


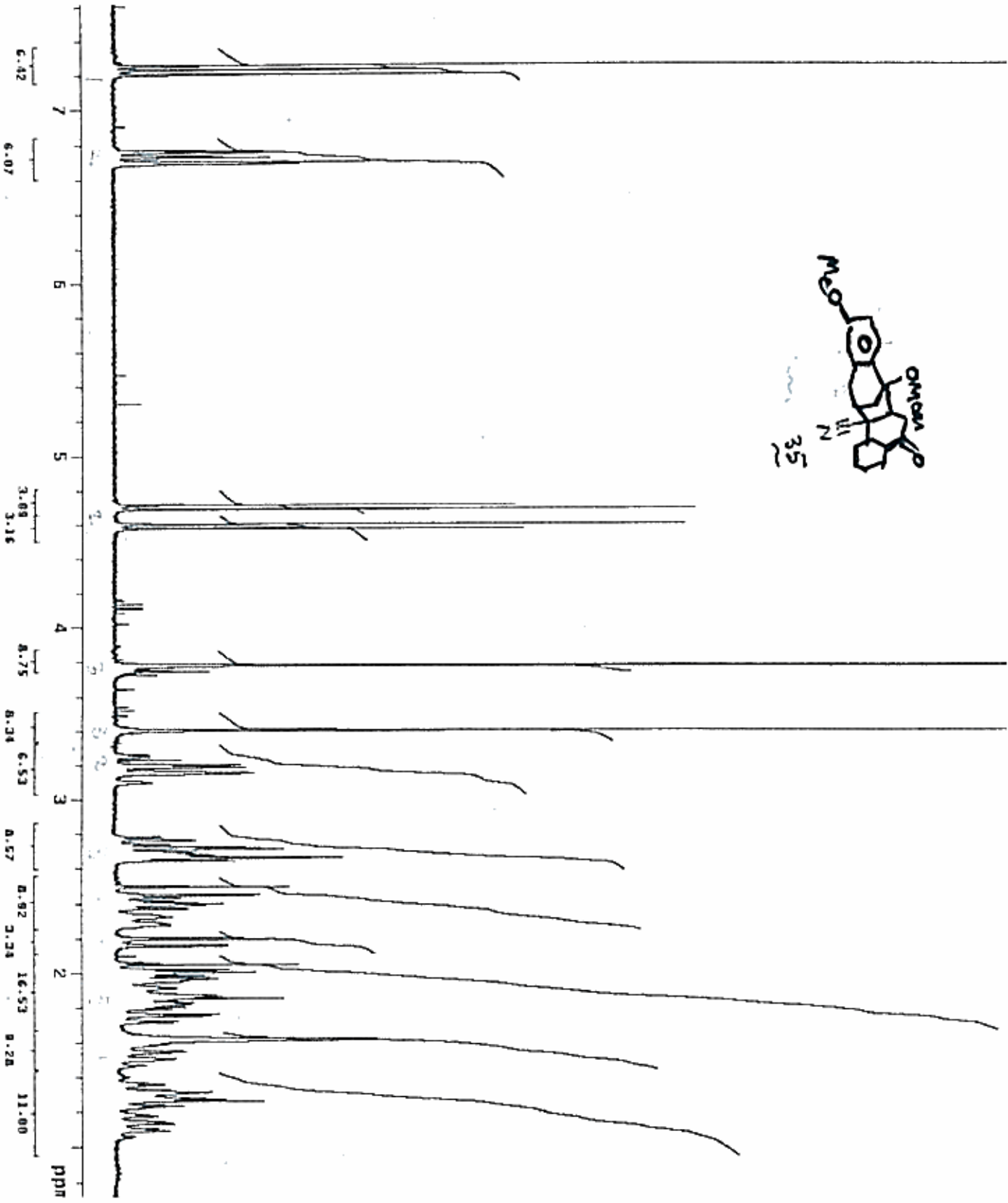
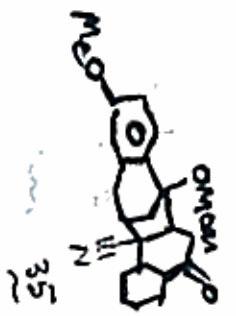


DMSO



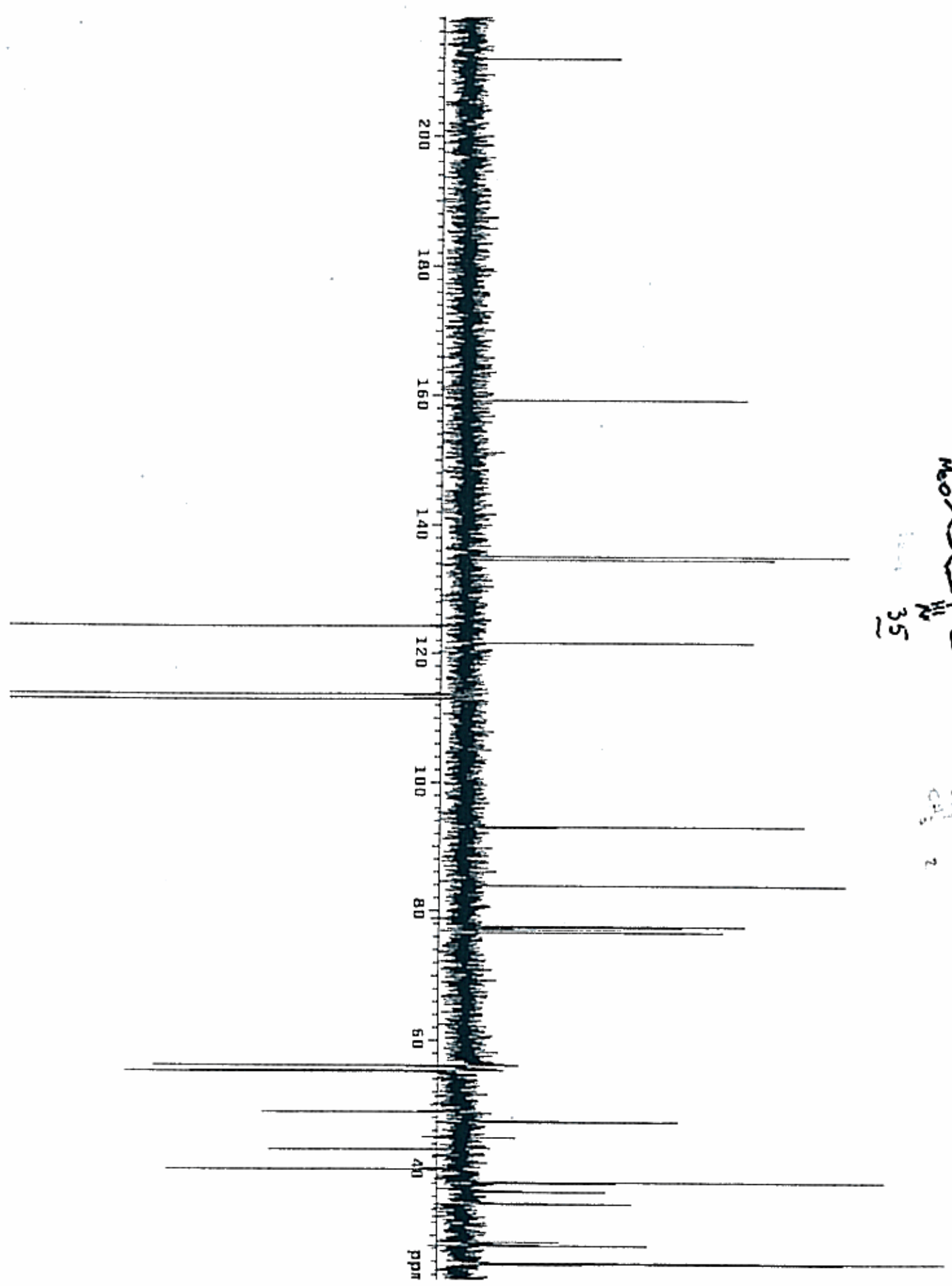


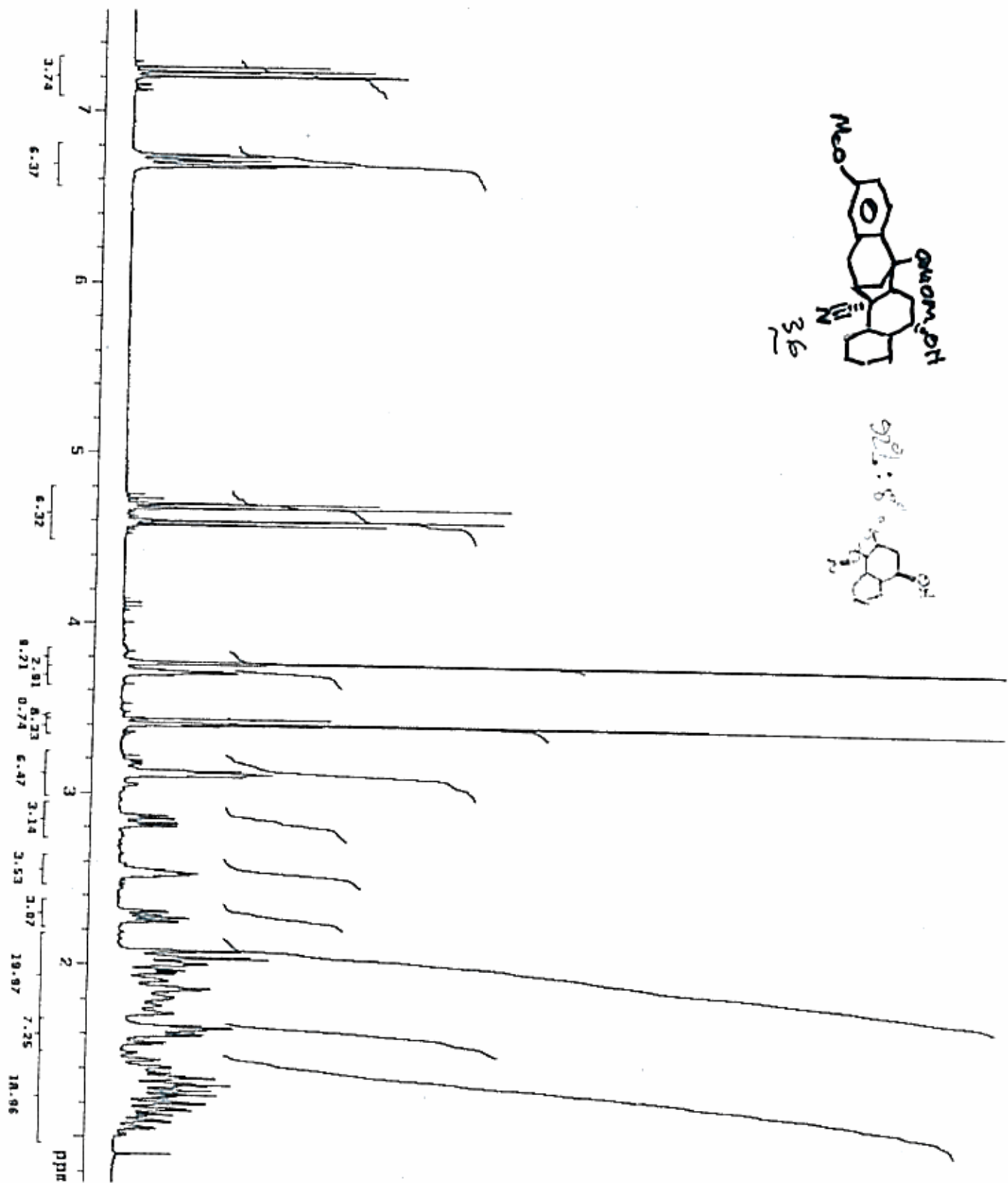
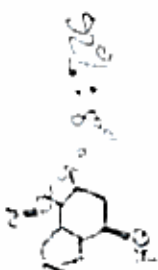
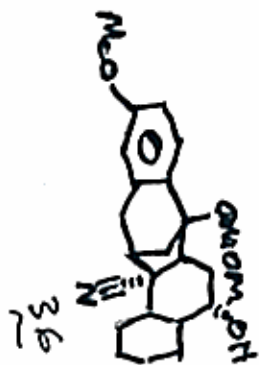


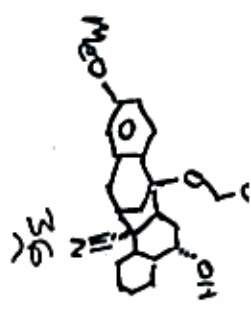




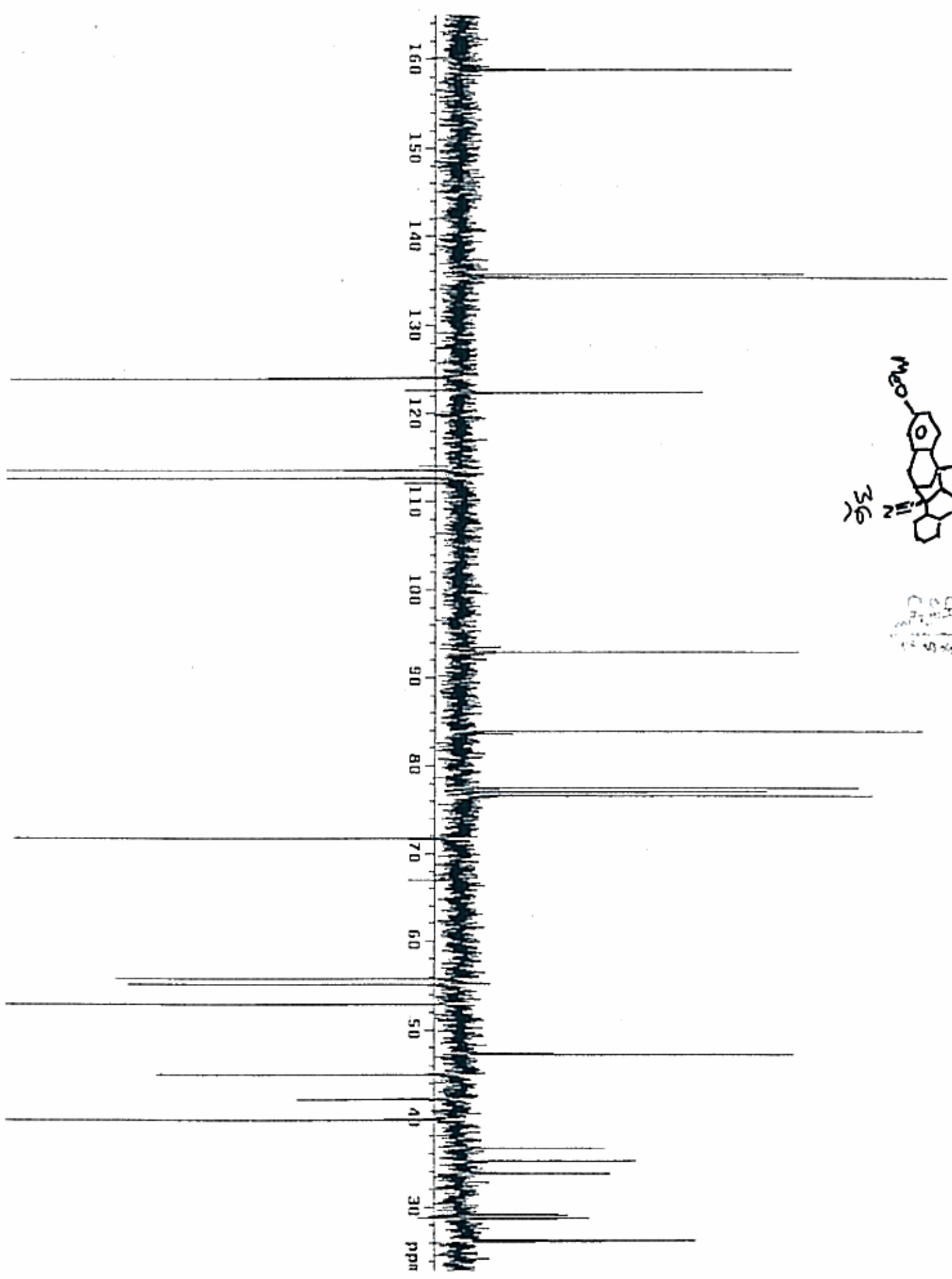
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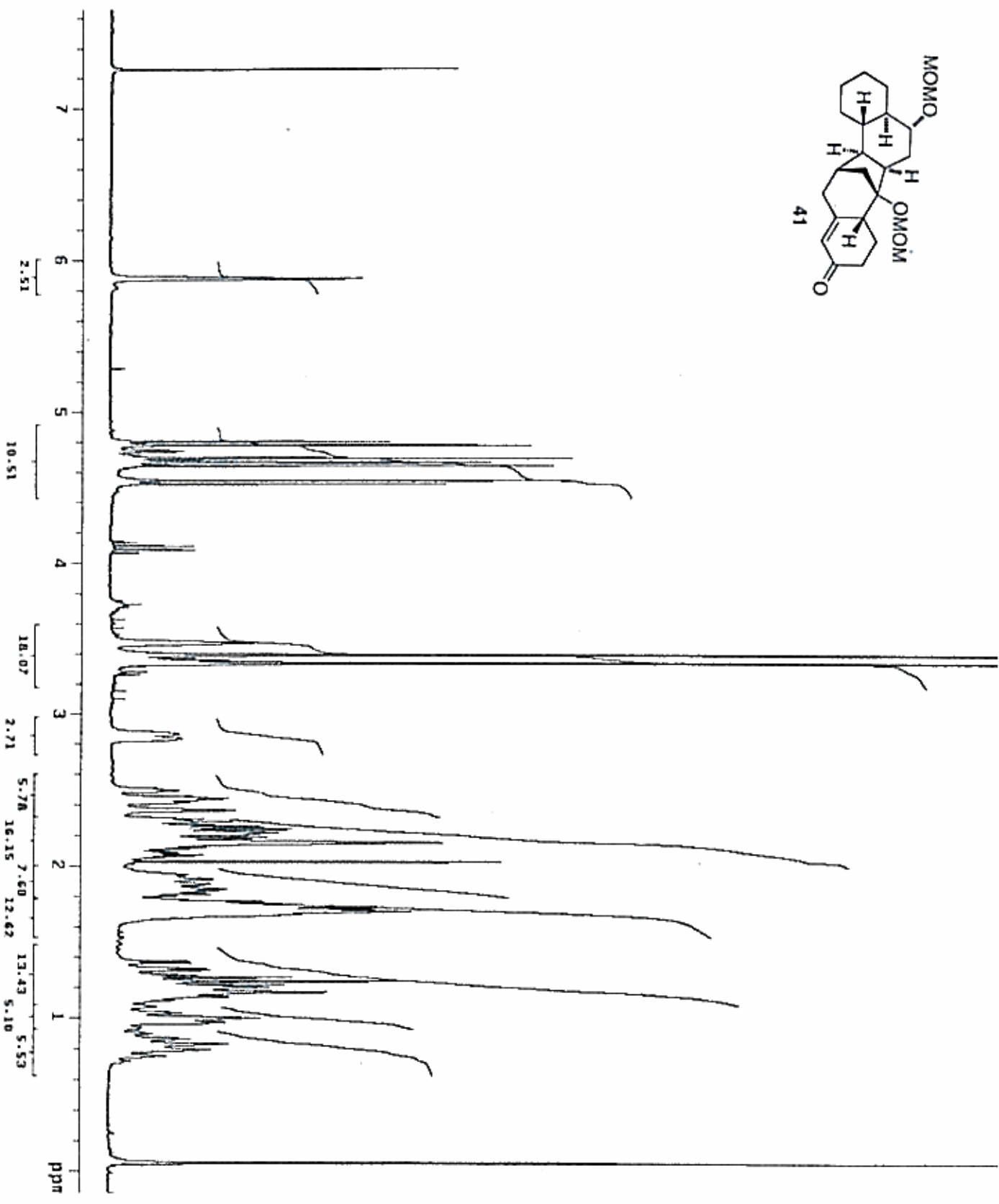
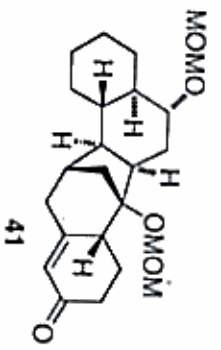


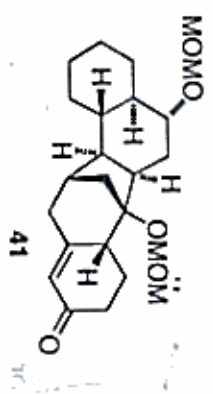




5
100
150
200

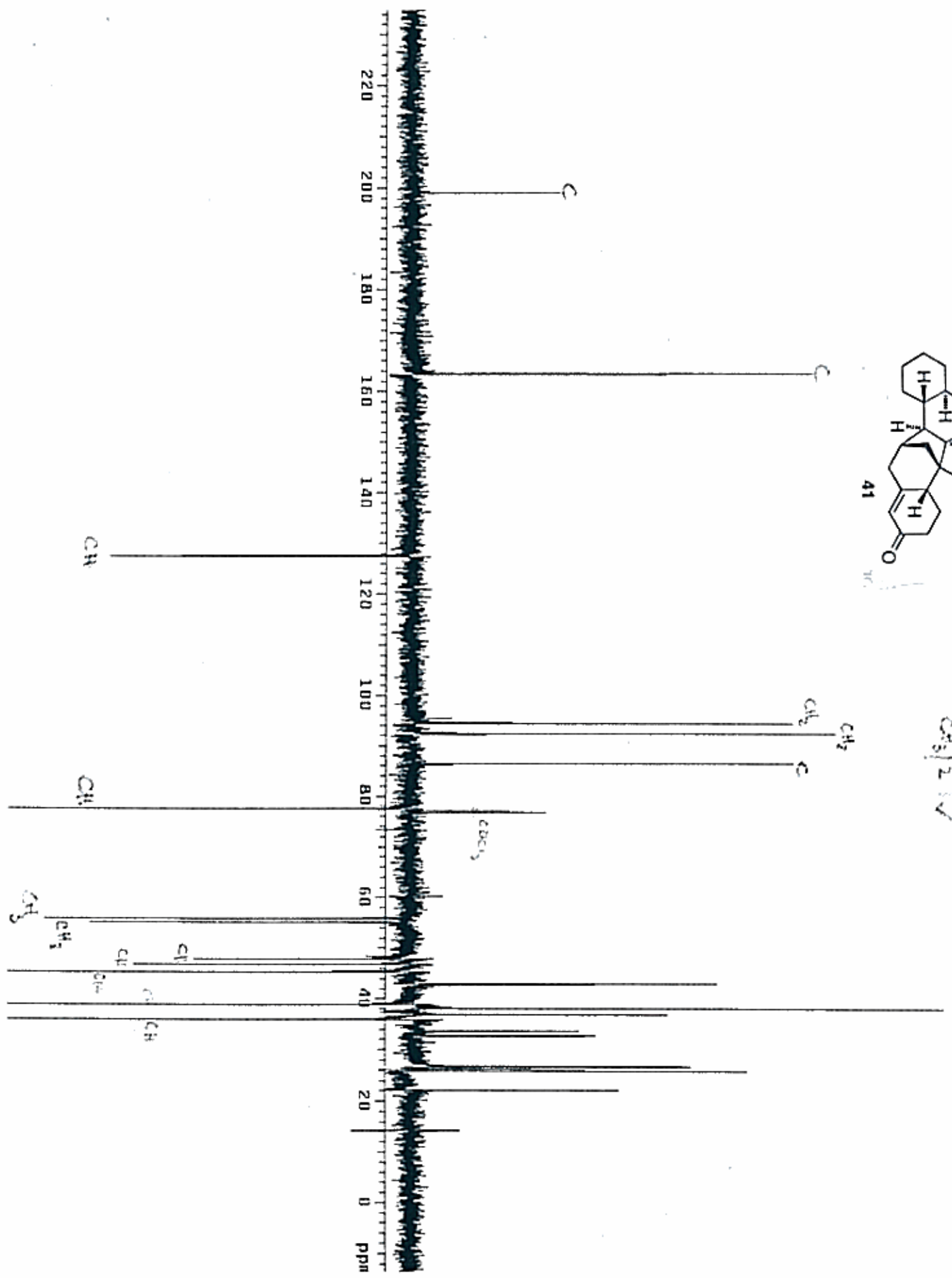


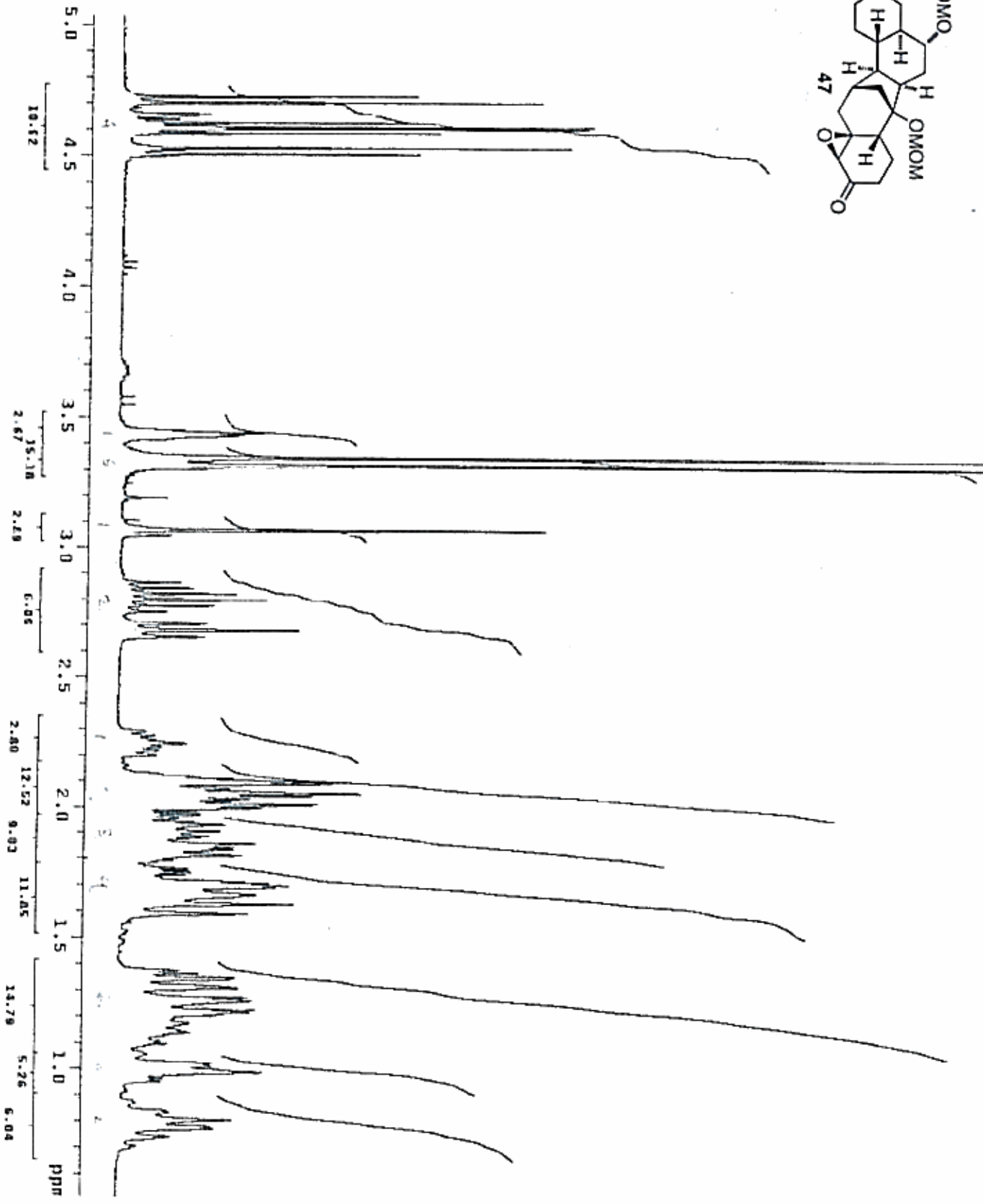
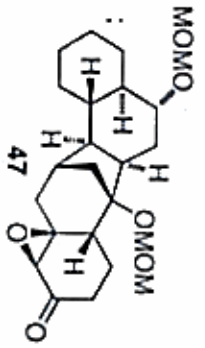


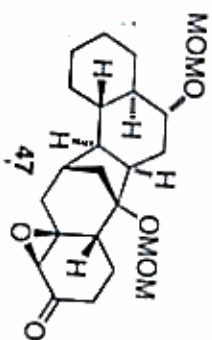


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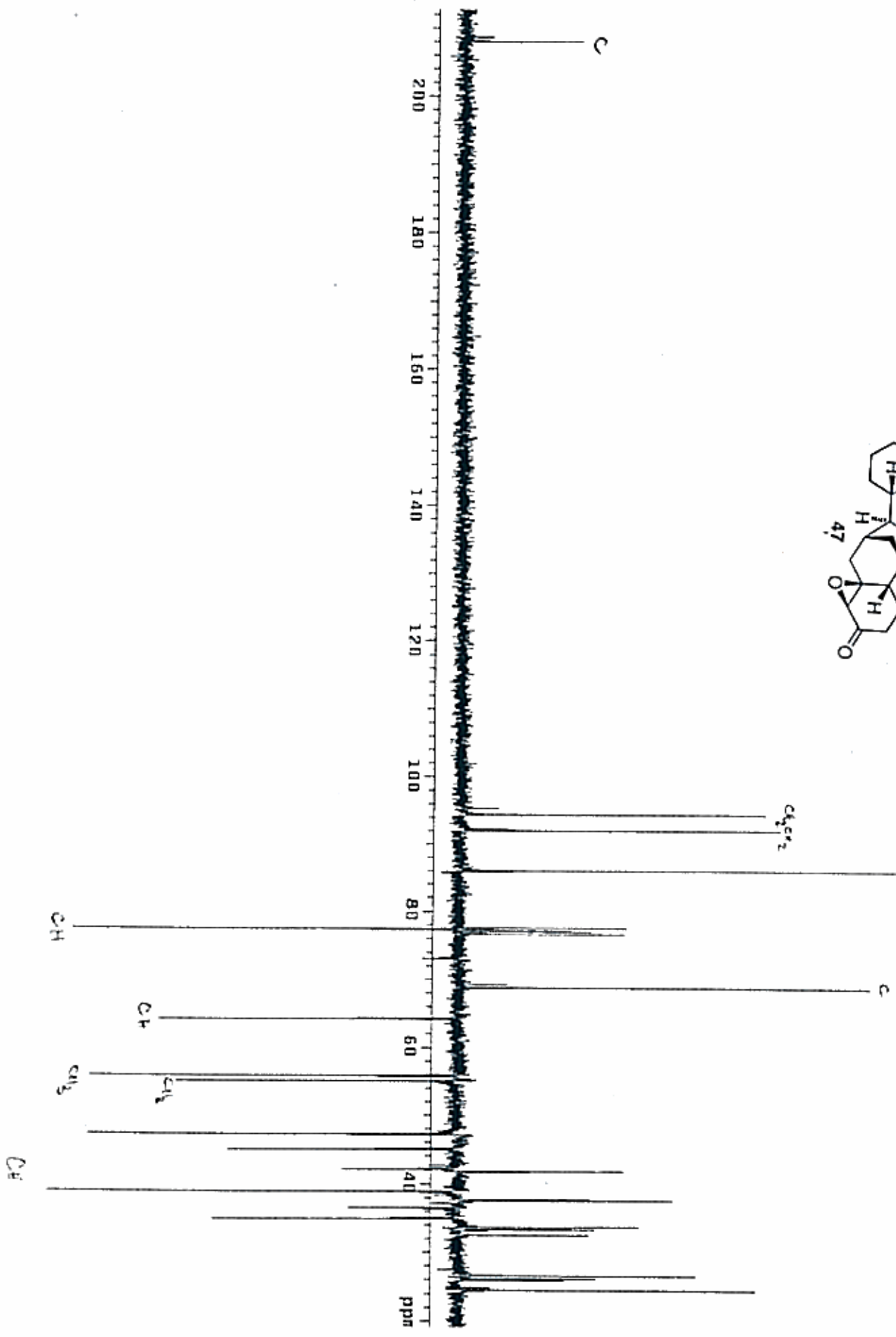
CH ₂	5	✓
CH	11	✓
CH ₂	2	✓

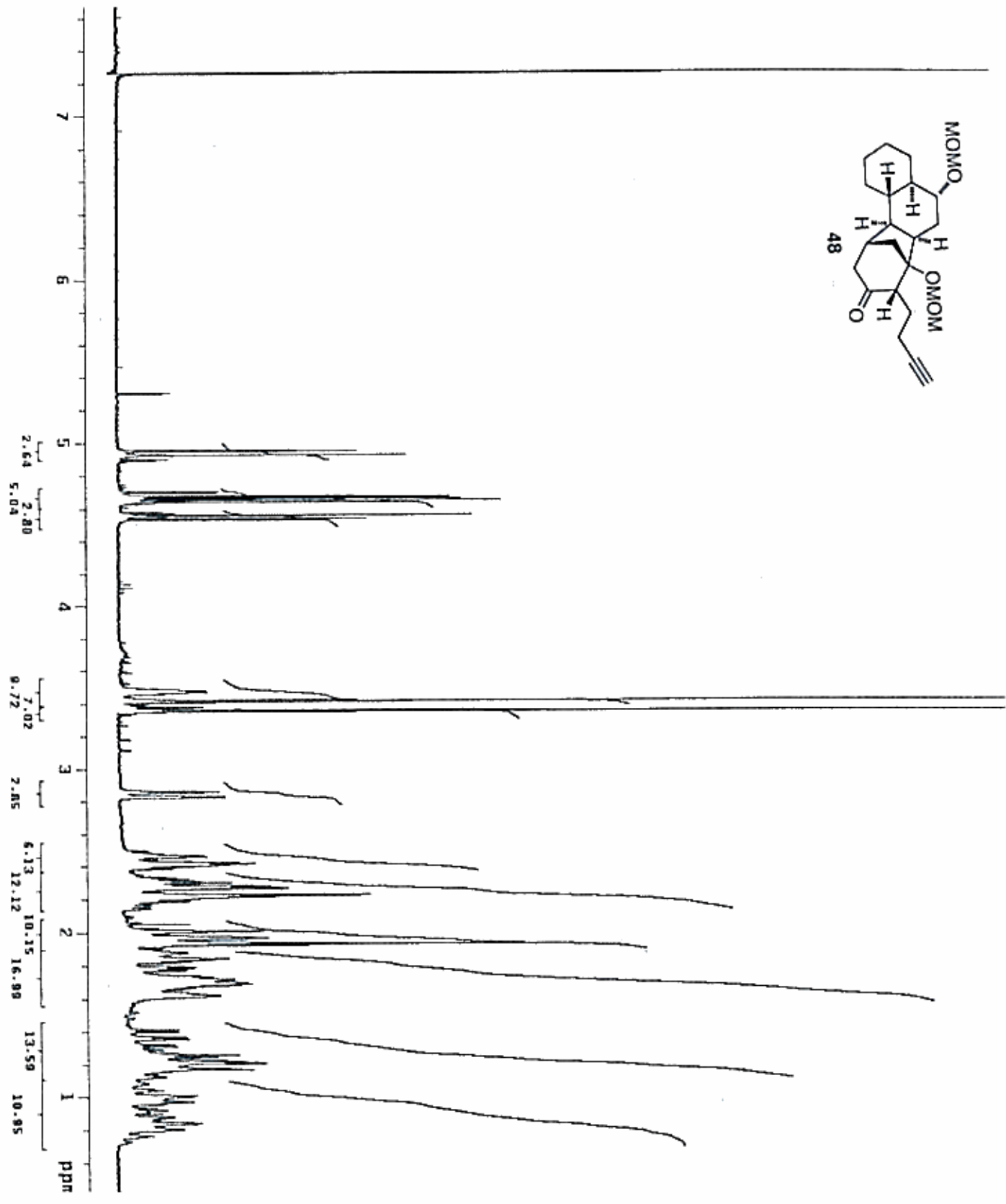
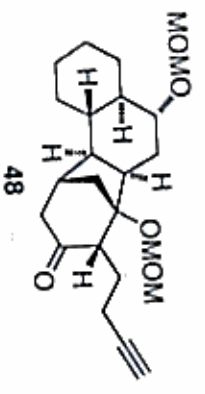


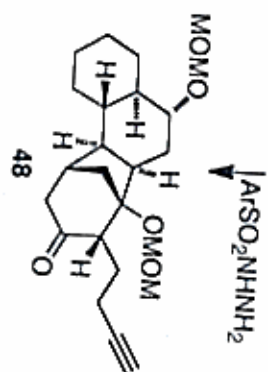




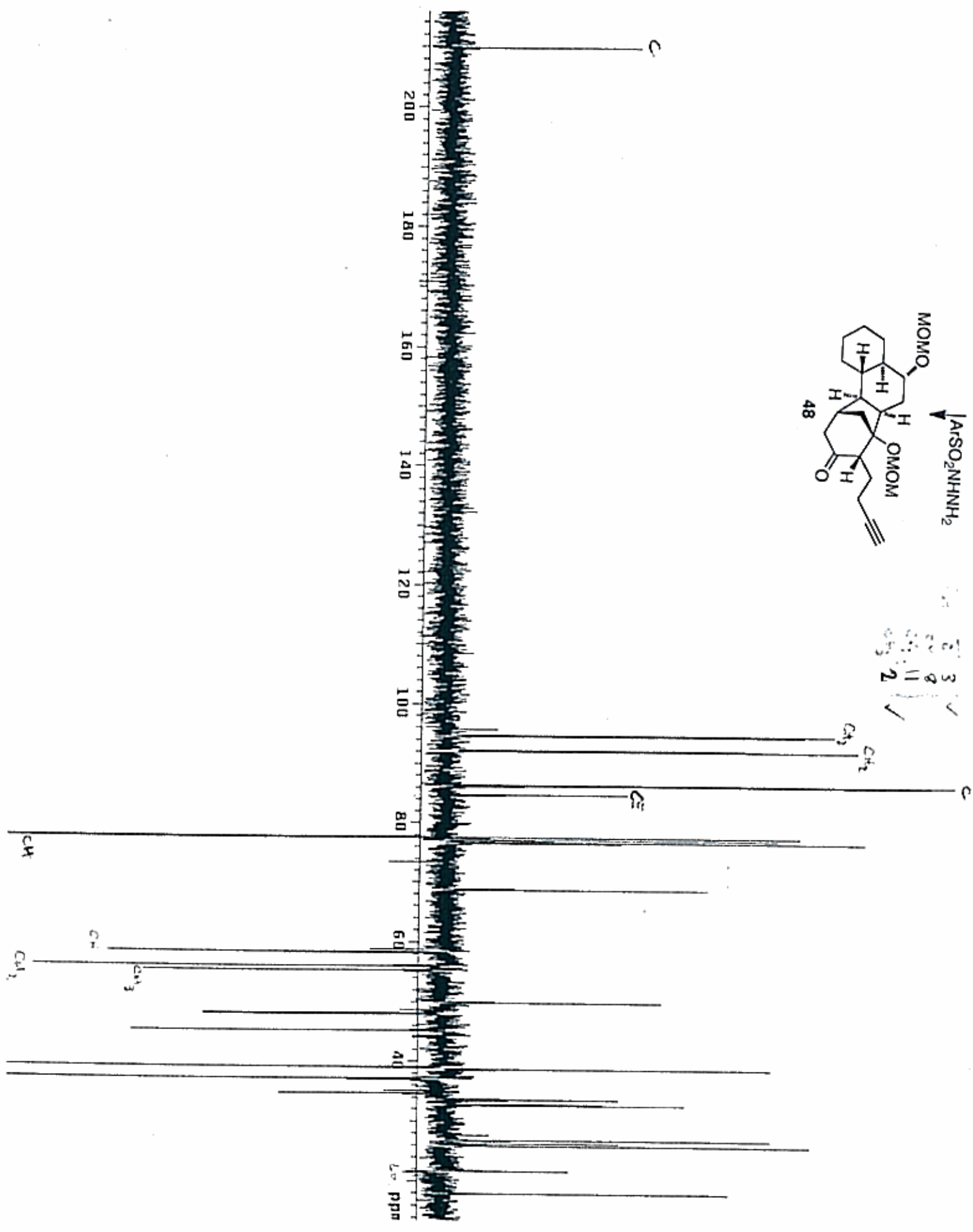
C1	5
C2	8
C3	11
C4	2

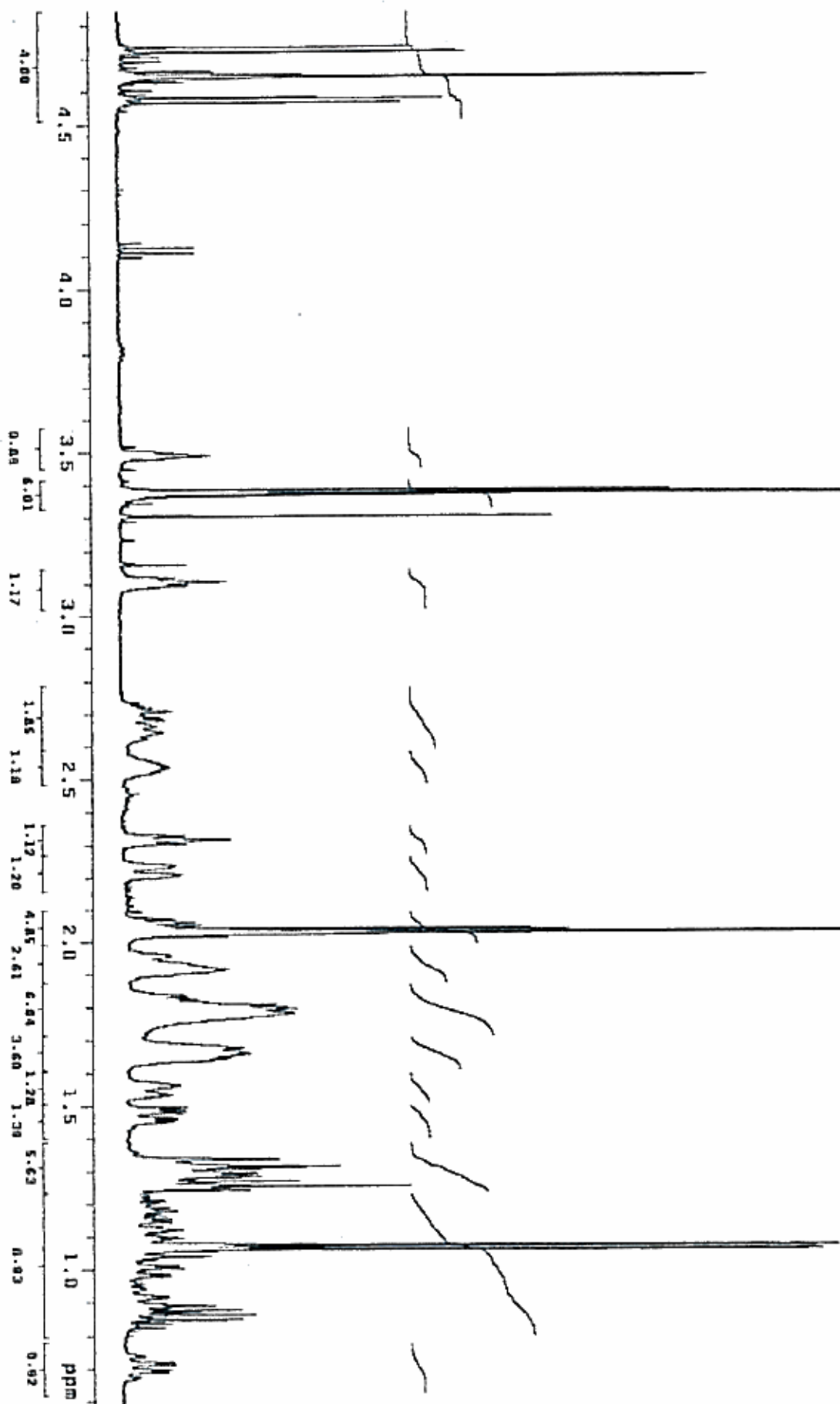
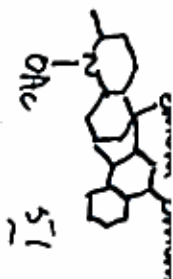






3
 8
 11
 2
 ✓
 ✓

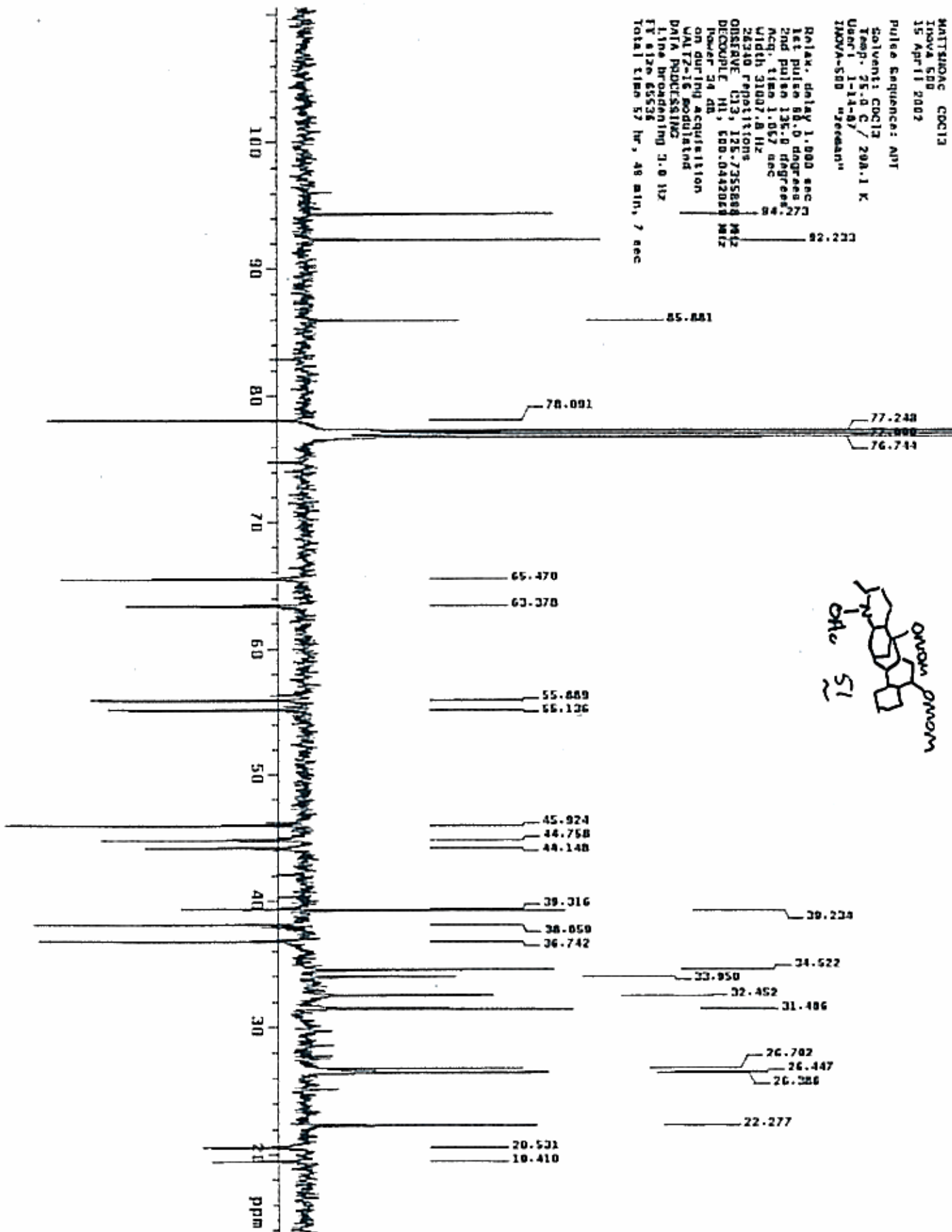
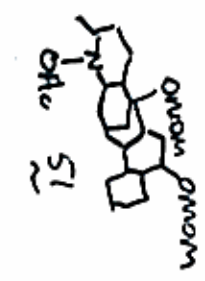


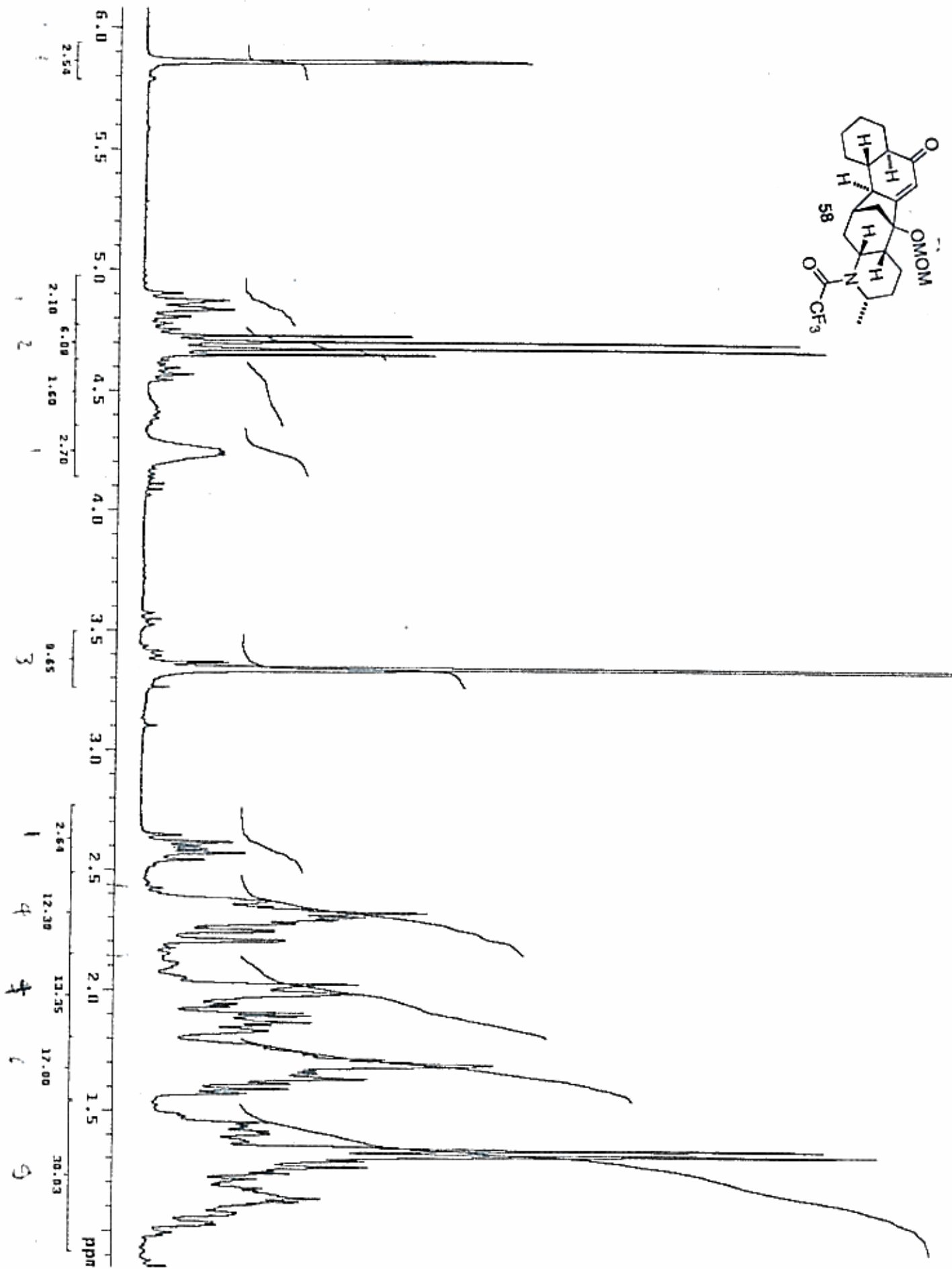
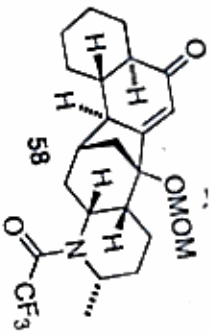


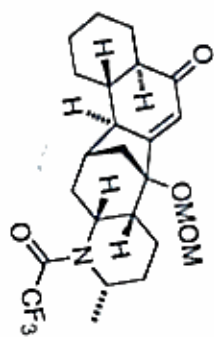
Pulse Sequence: APT

Solvent: CDCl3
Temp: 25.0 C / 298.1 K
User: 1-14-02
INOVA-SDD "zyeman"

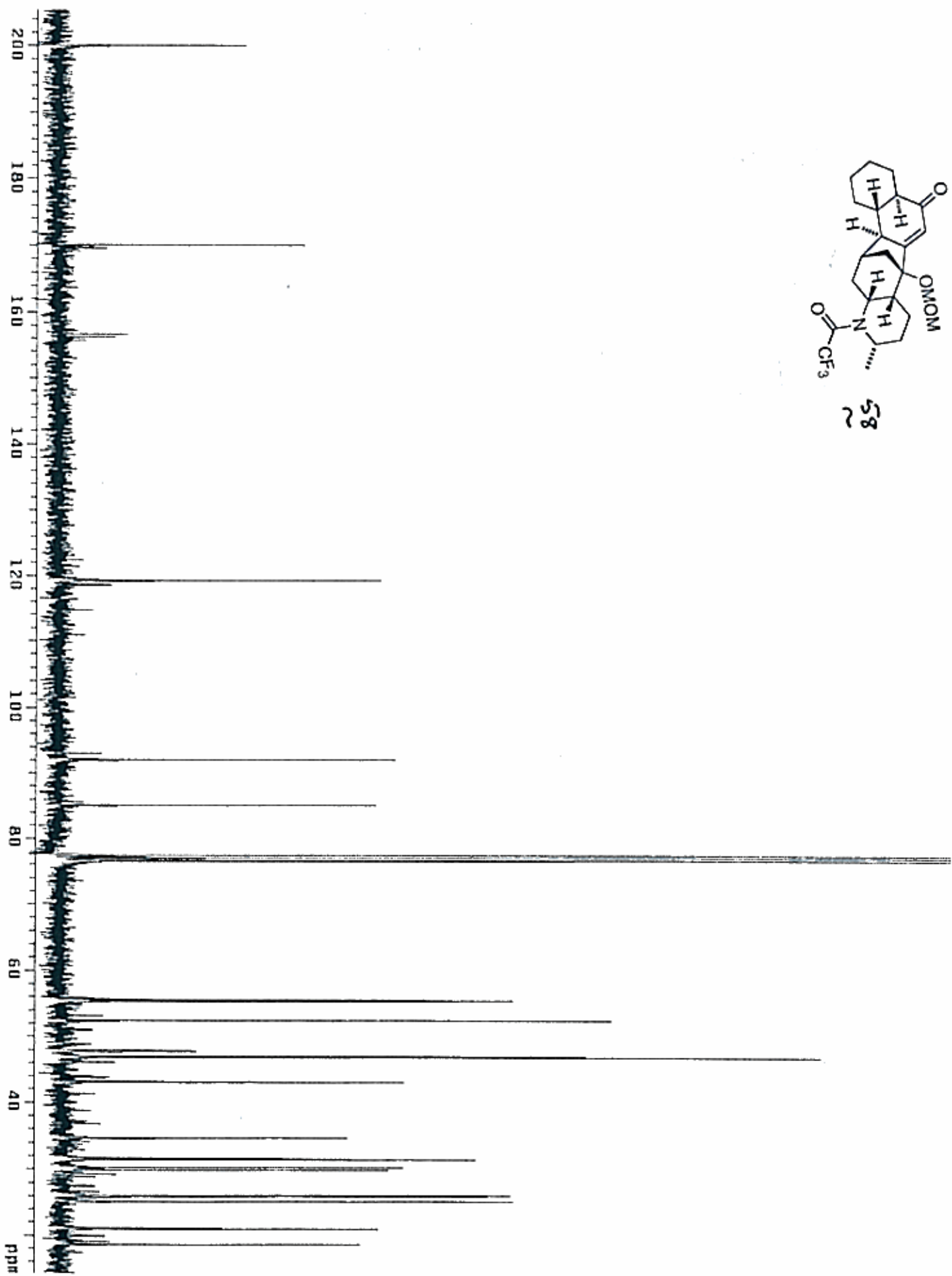
Relax. delay 1.000 sec
1st pulse 88.0 degrees
2nd pulse 135.0 degrees
Acq. time 1.057 sec
Width 31007.8 Hz
26340 repetitions
OBSERVE C13, 125.735888 MHz
DECOUPLE H1, 500.0442020 MHz
Power 24 dB
on during acquisition
WALTZ-16 modulation
DATA PROCESSING
Line broadening 3.0 Hz
SI size 6536
Total time 52 hr, 48 min, 7 sec



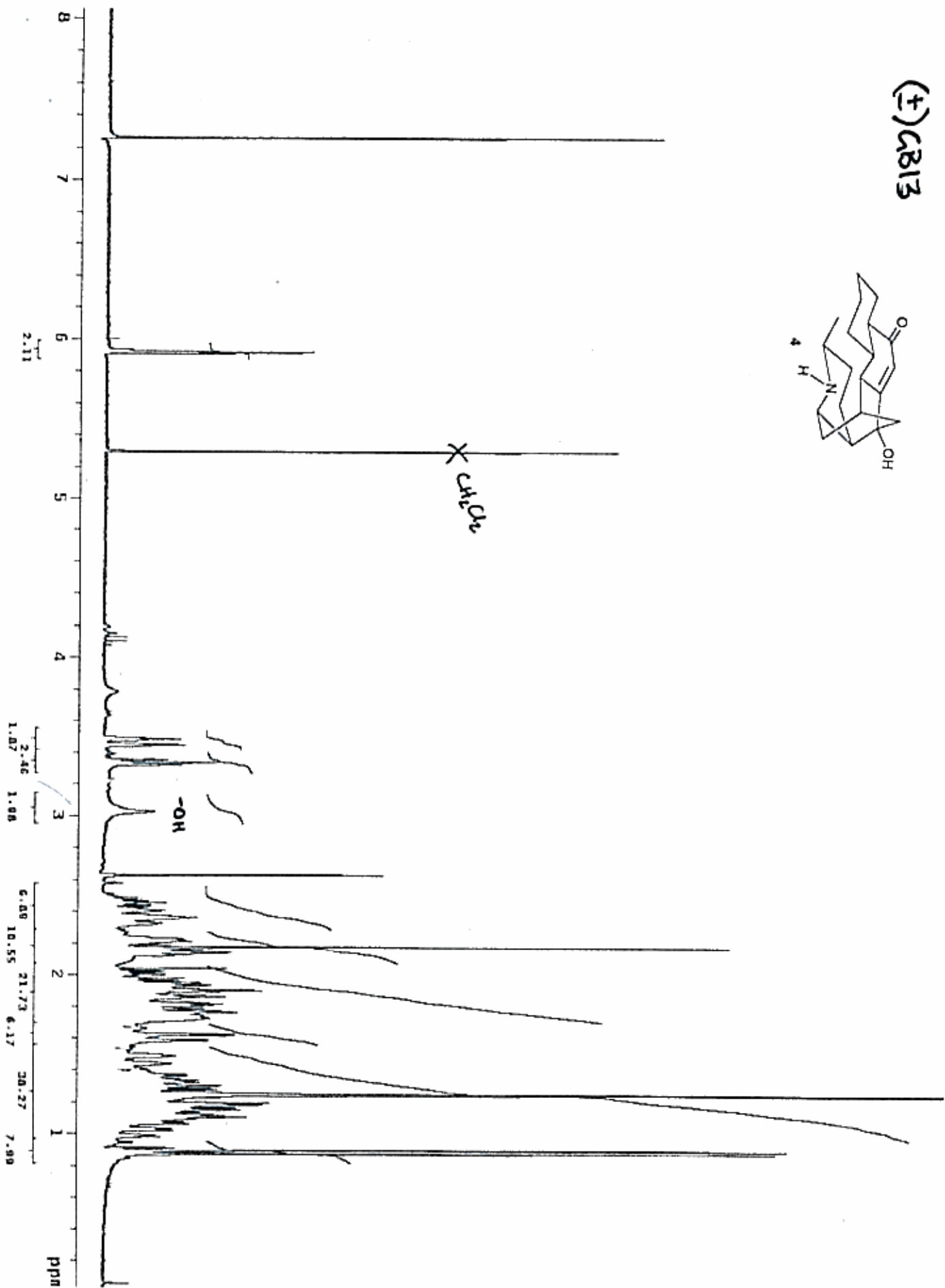
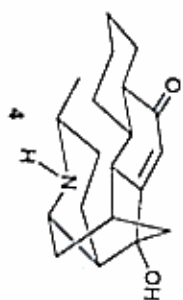




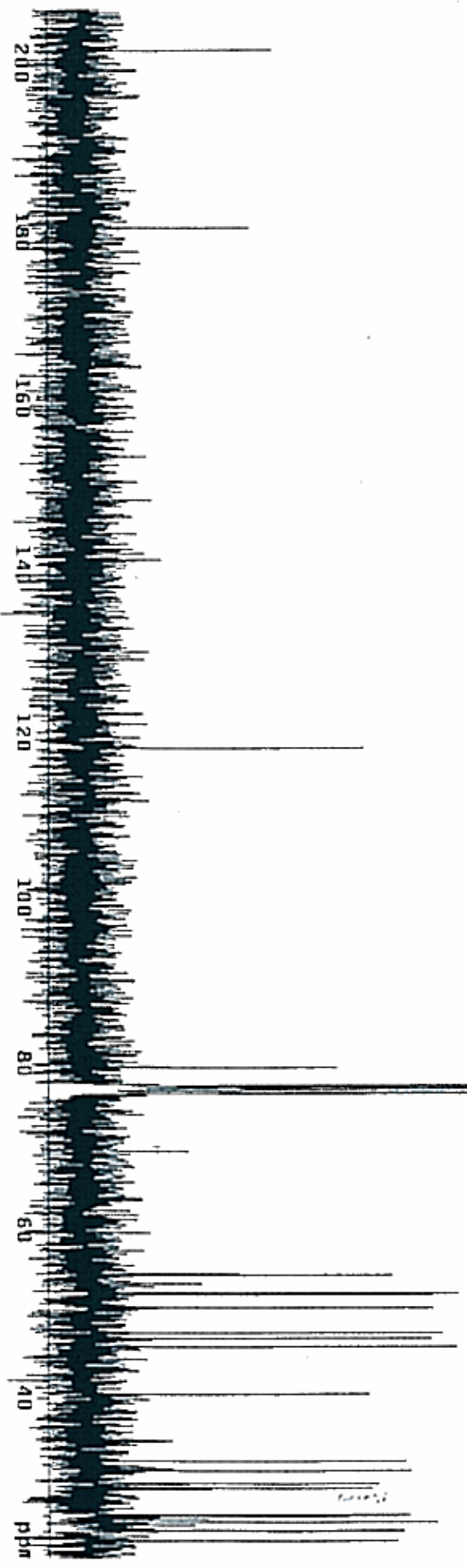
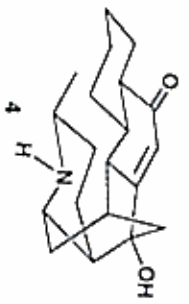
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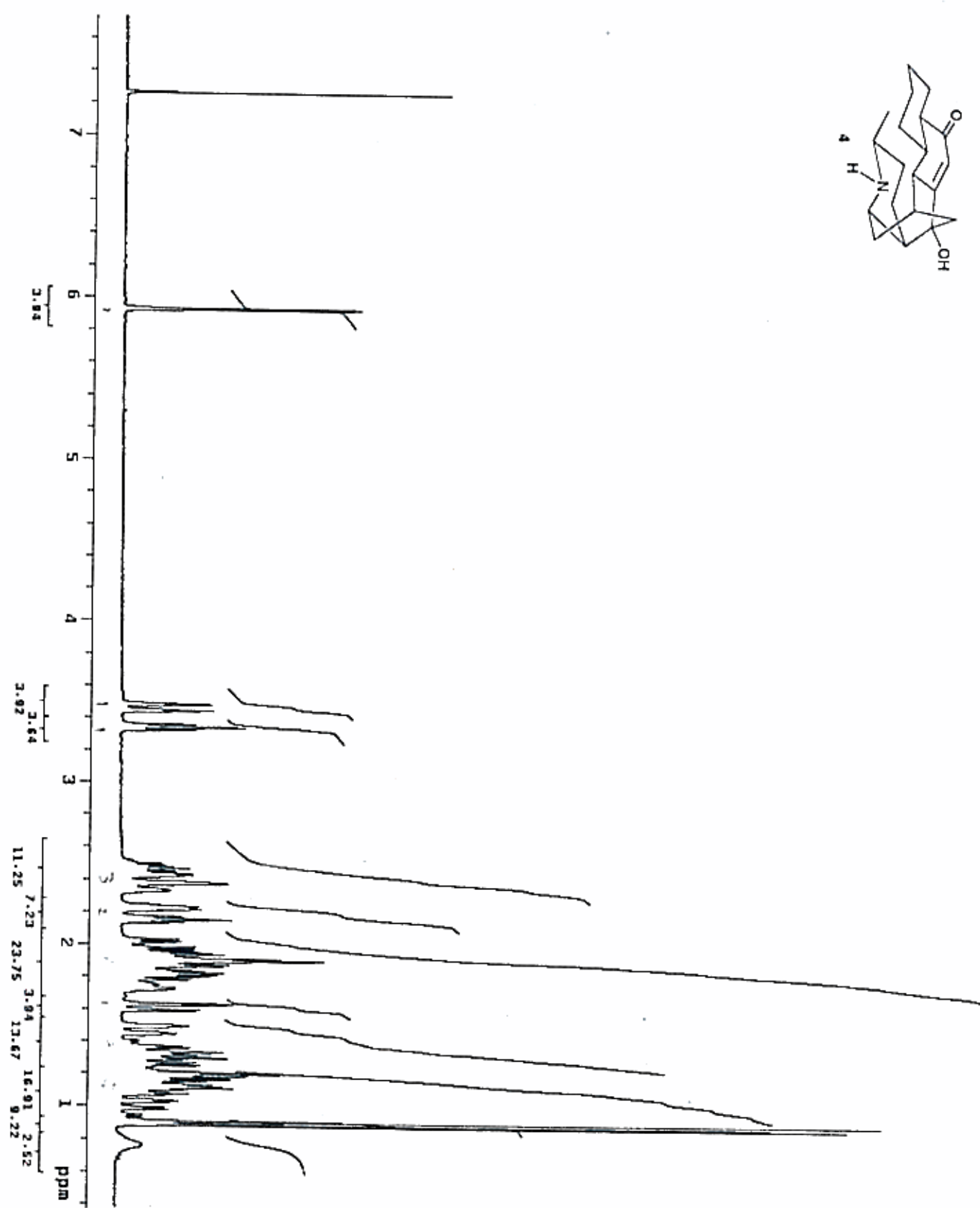
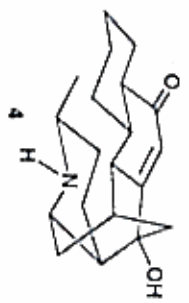
(±)CB13



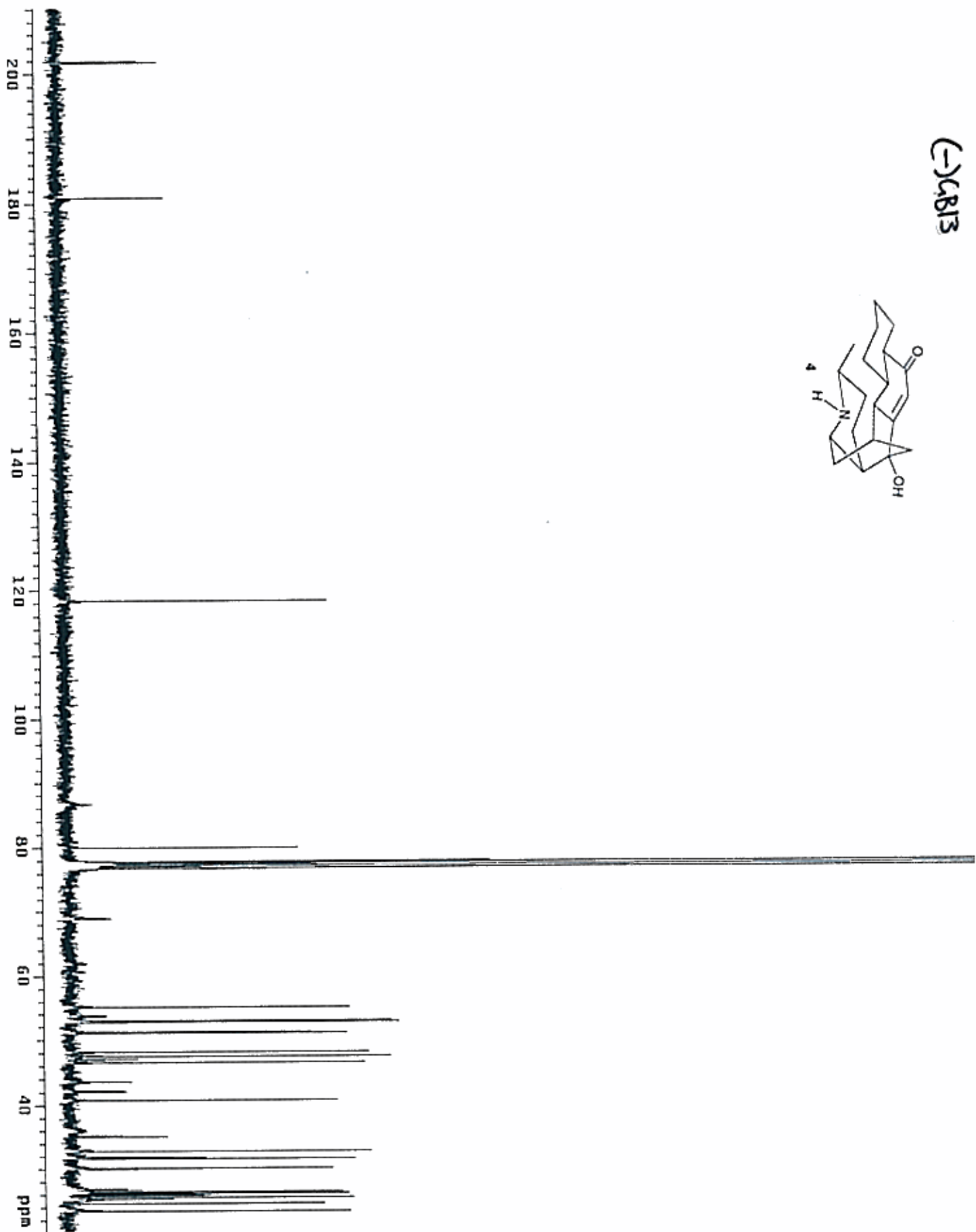
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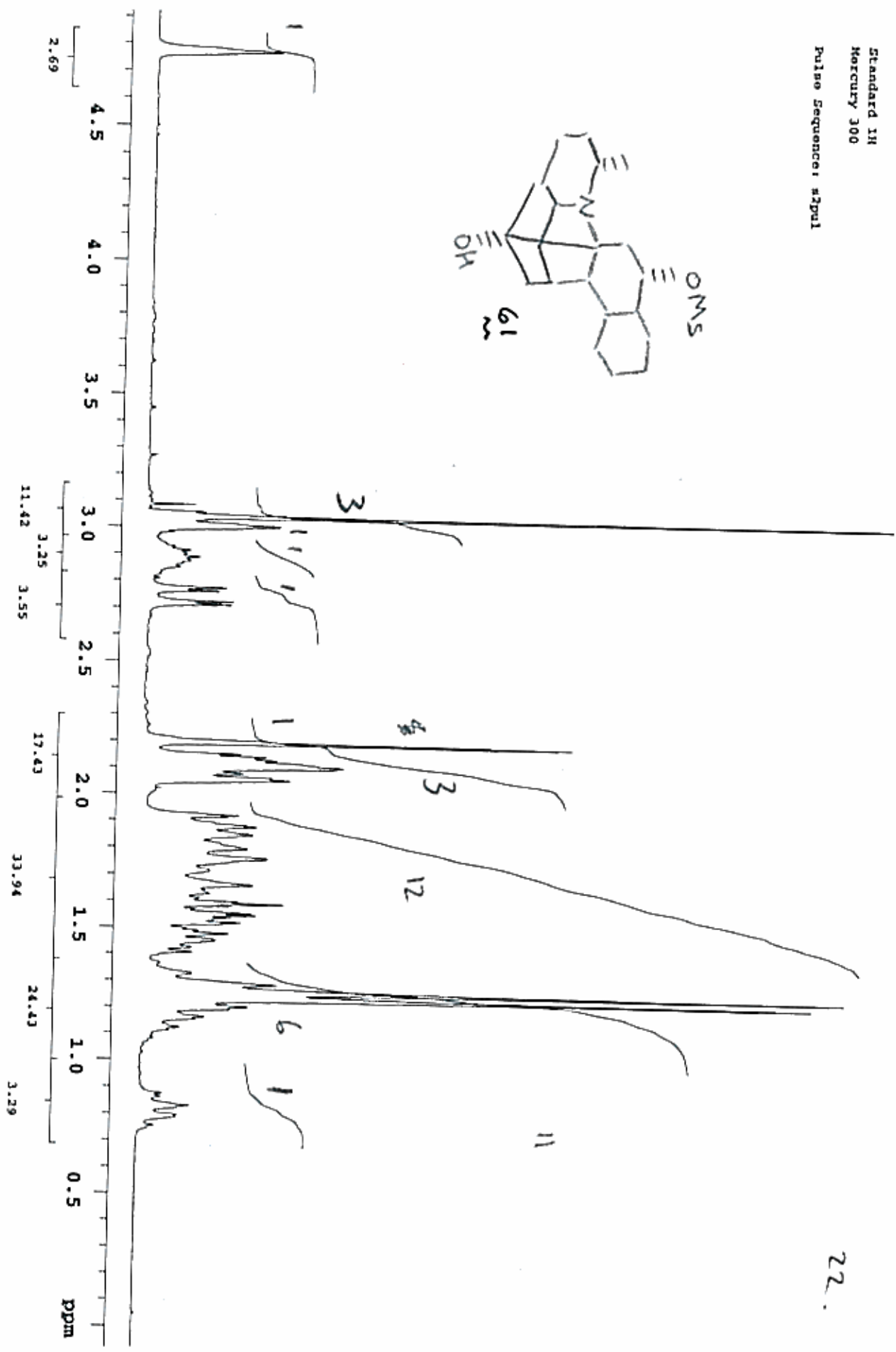
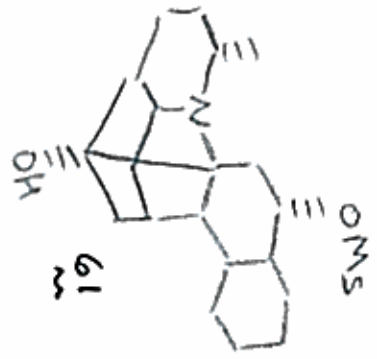


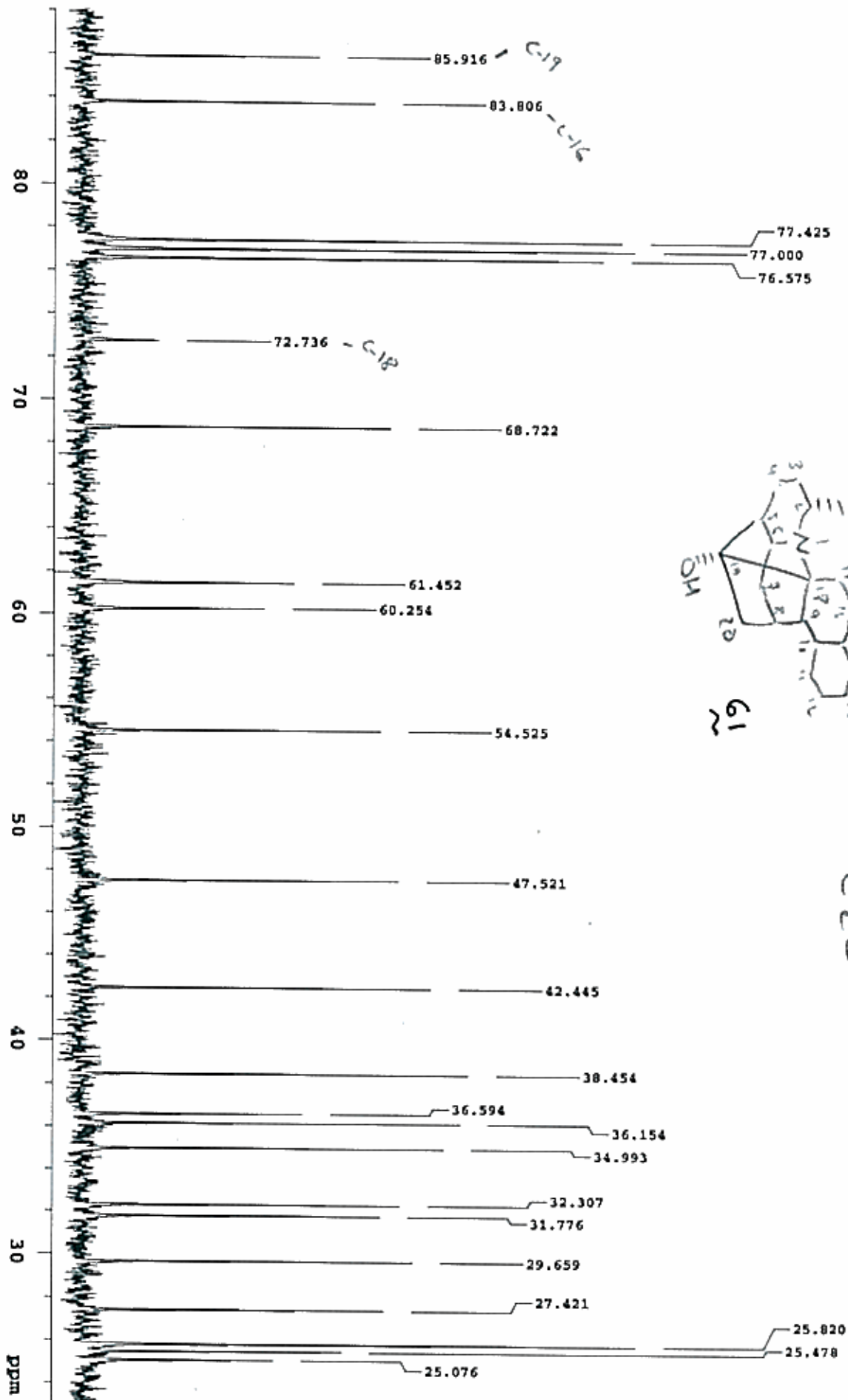
NATURAK
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22/5/02

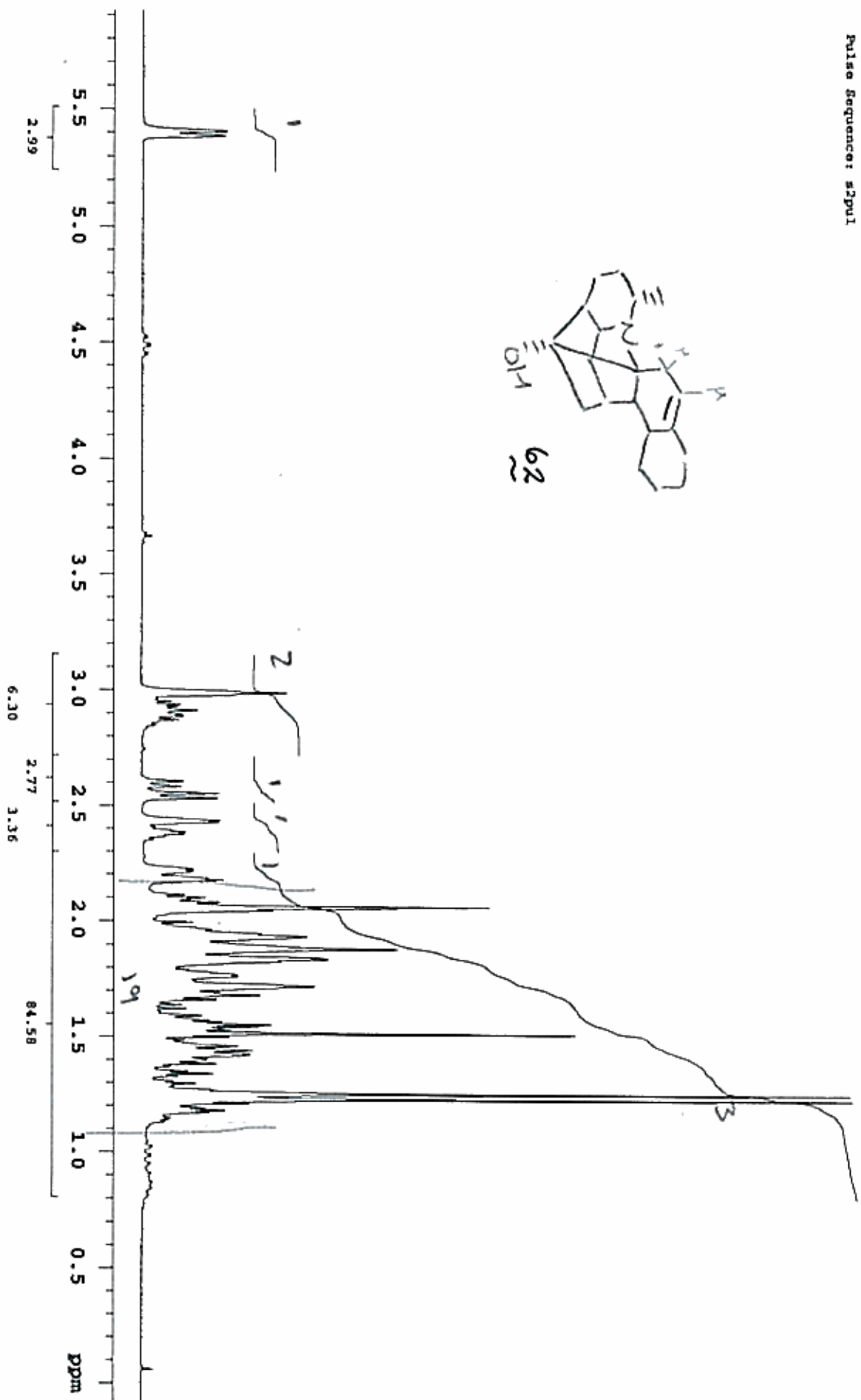
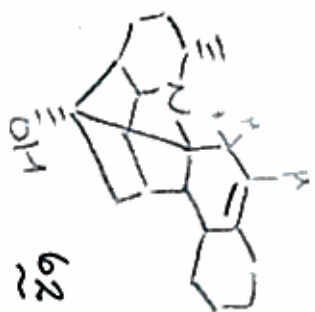


(-)-CBI3



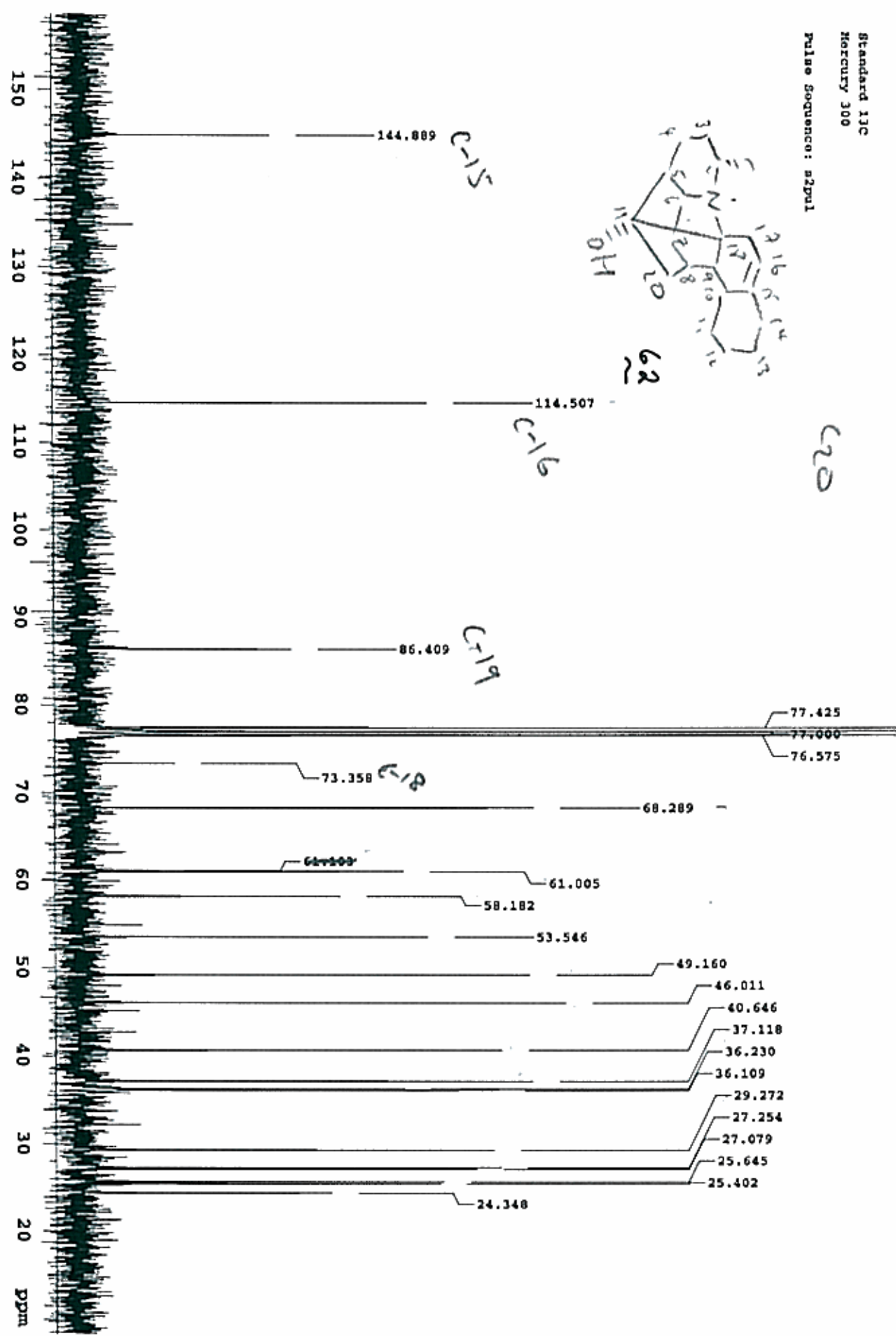
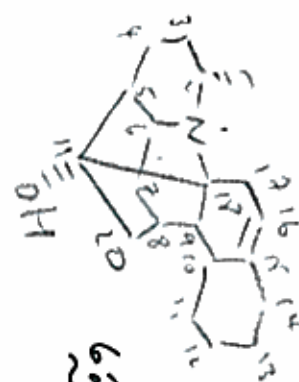


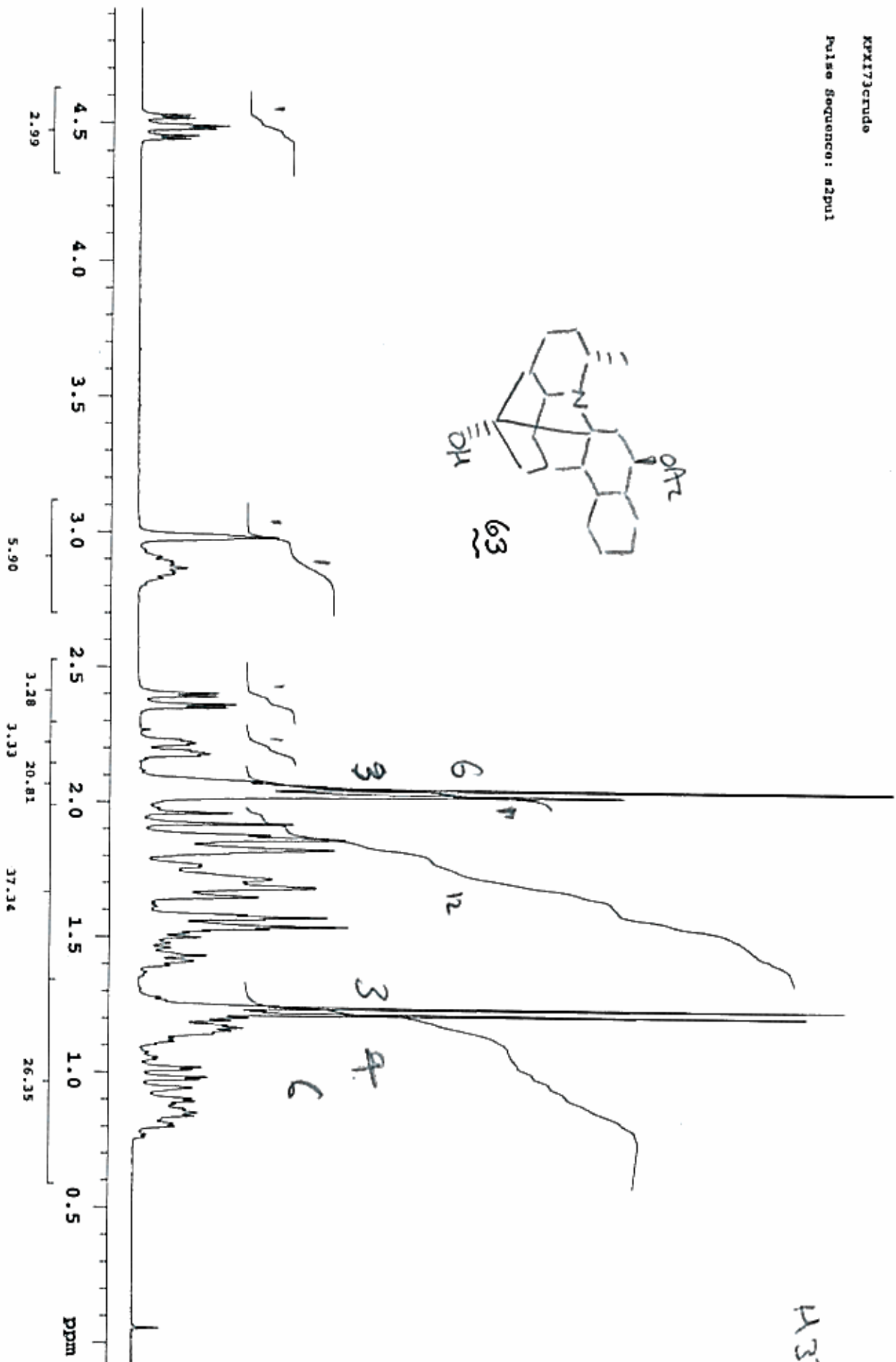
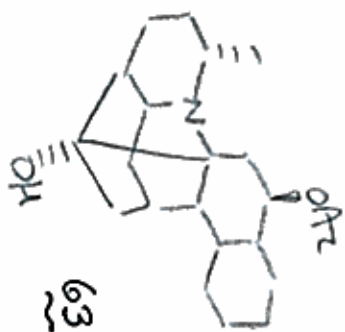




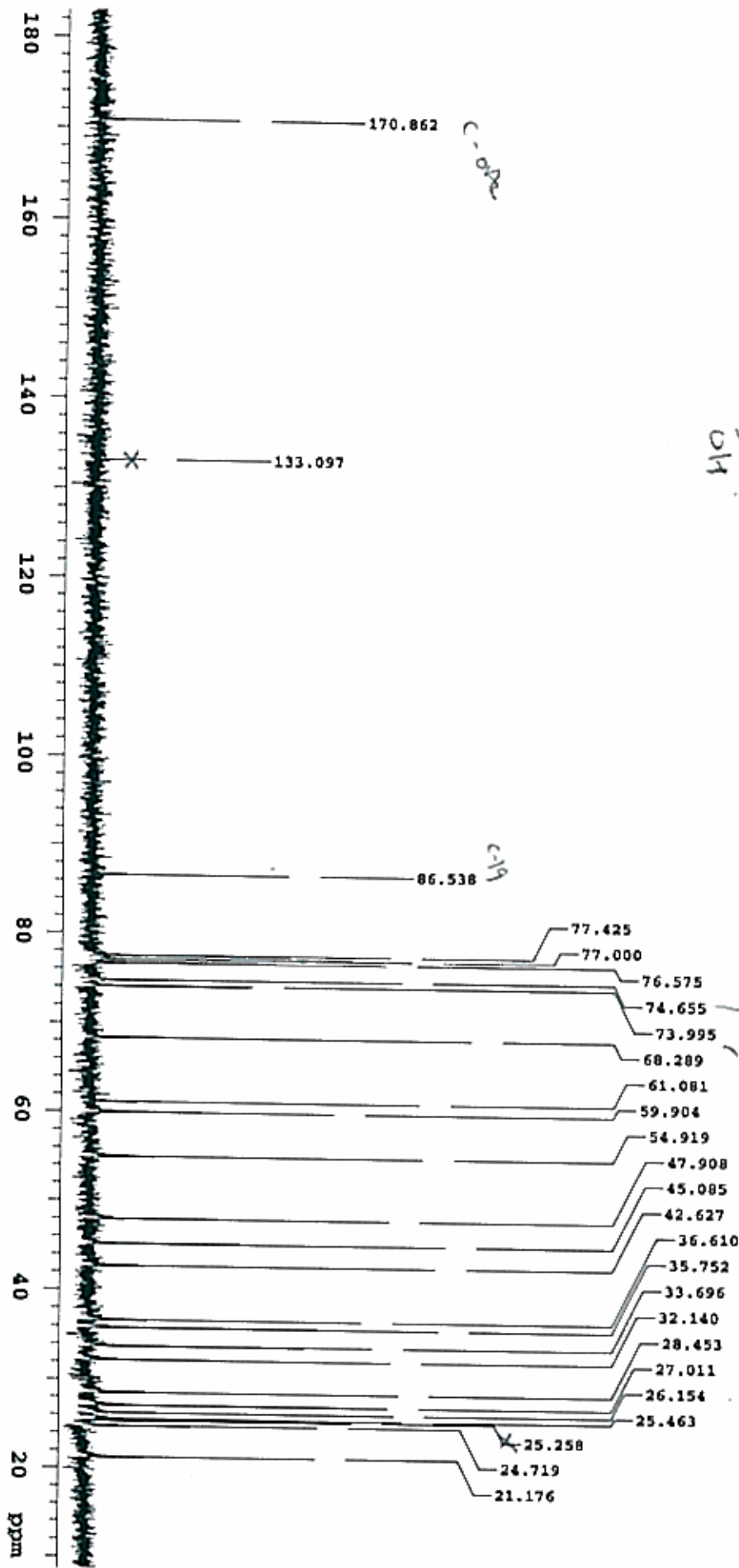
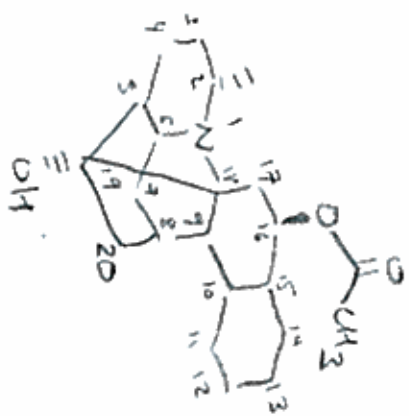
Standard 11C
Mercury 300

Pulse Sequence: s2pu1





A33.



C-19a

C-19

C-16

C-18