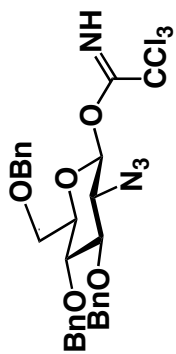


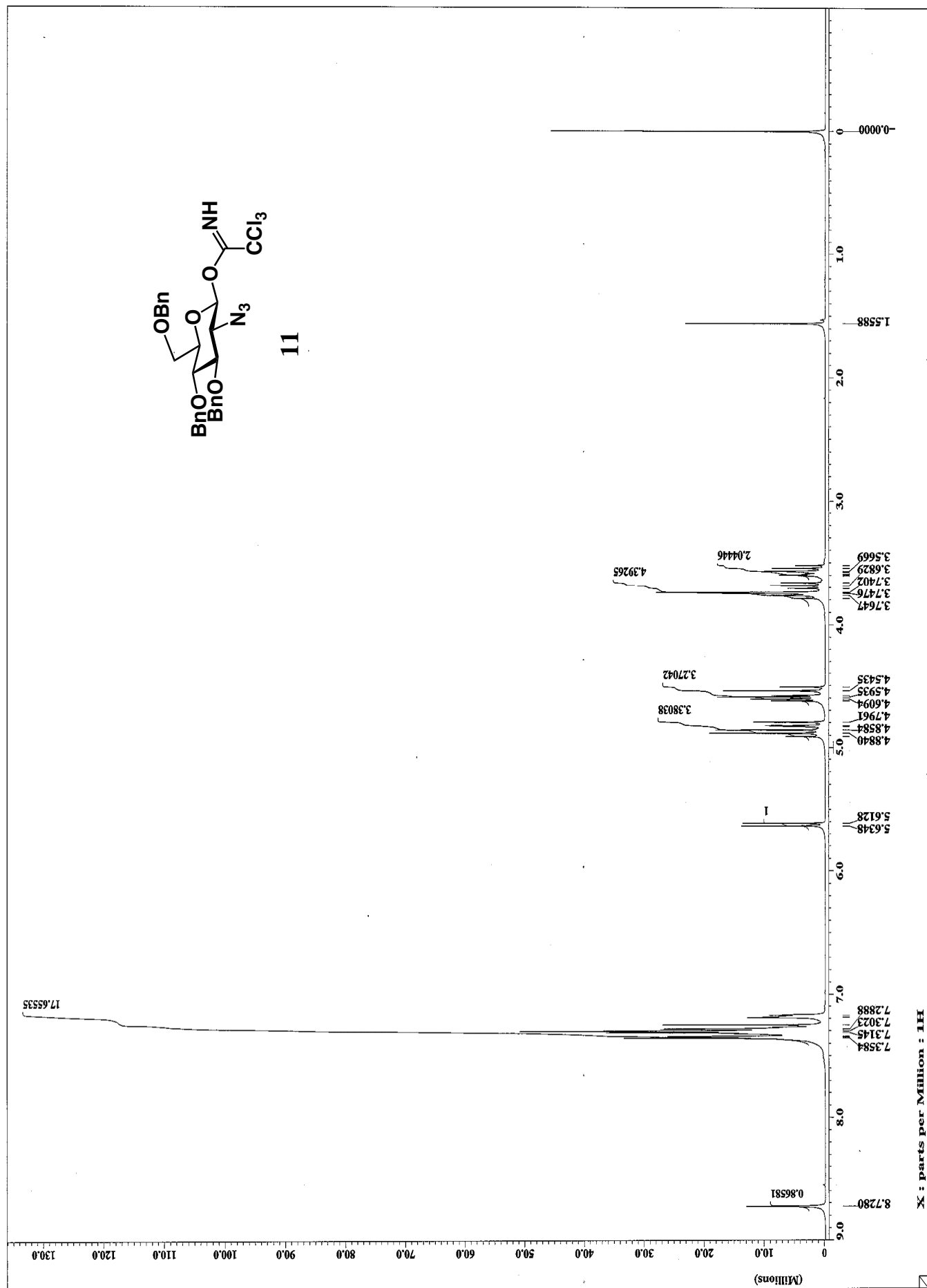
SUPPORTING INFORMATION

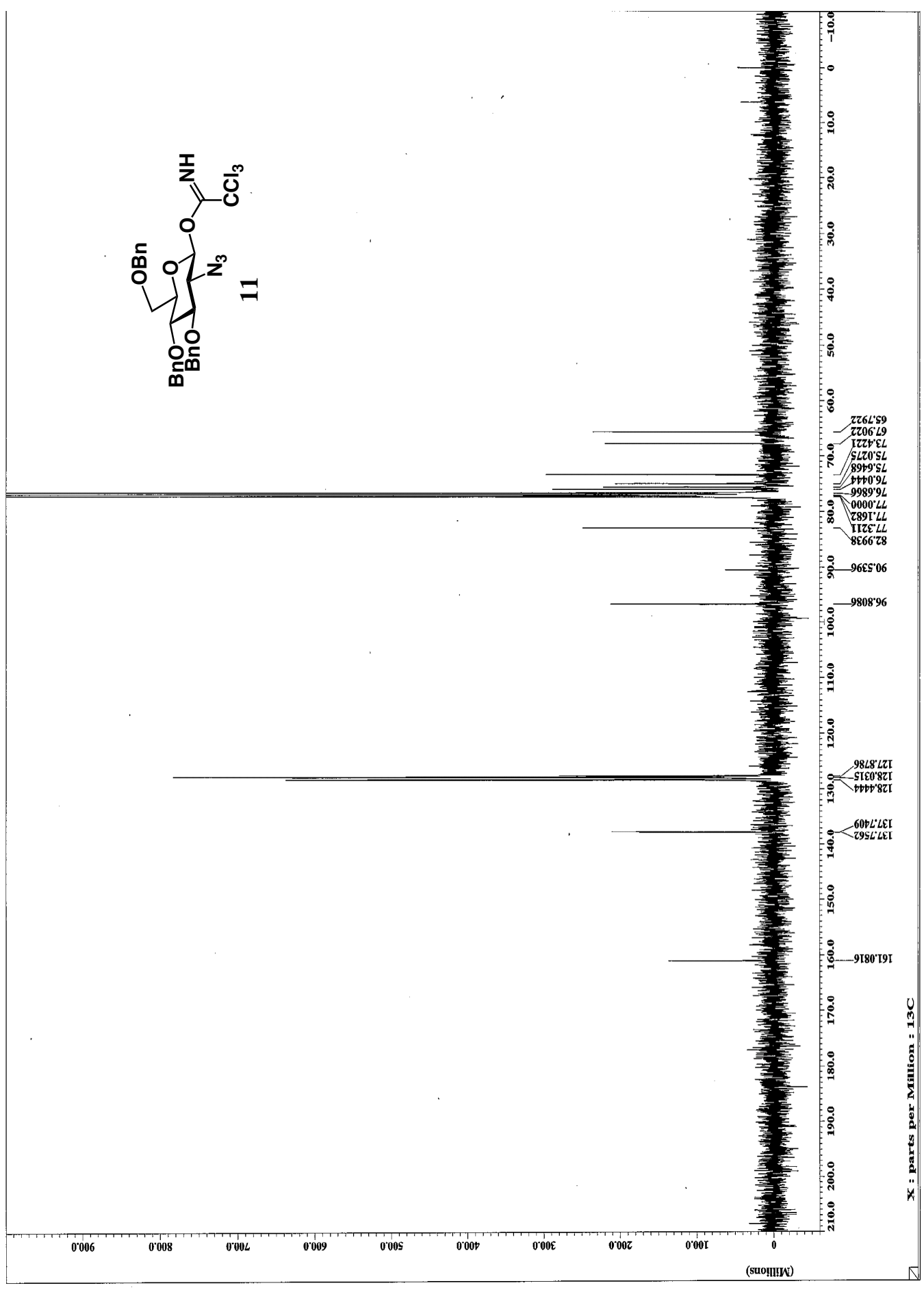
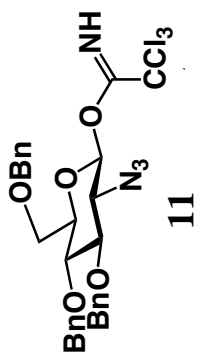
Synthesis of DTPA-Conjugated (1,4) Linked 2-Aminoglycosides Varying in the Anomeric Configuration and their MRI Contrast Effect.

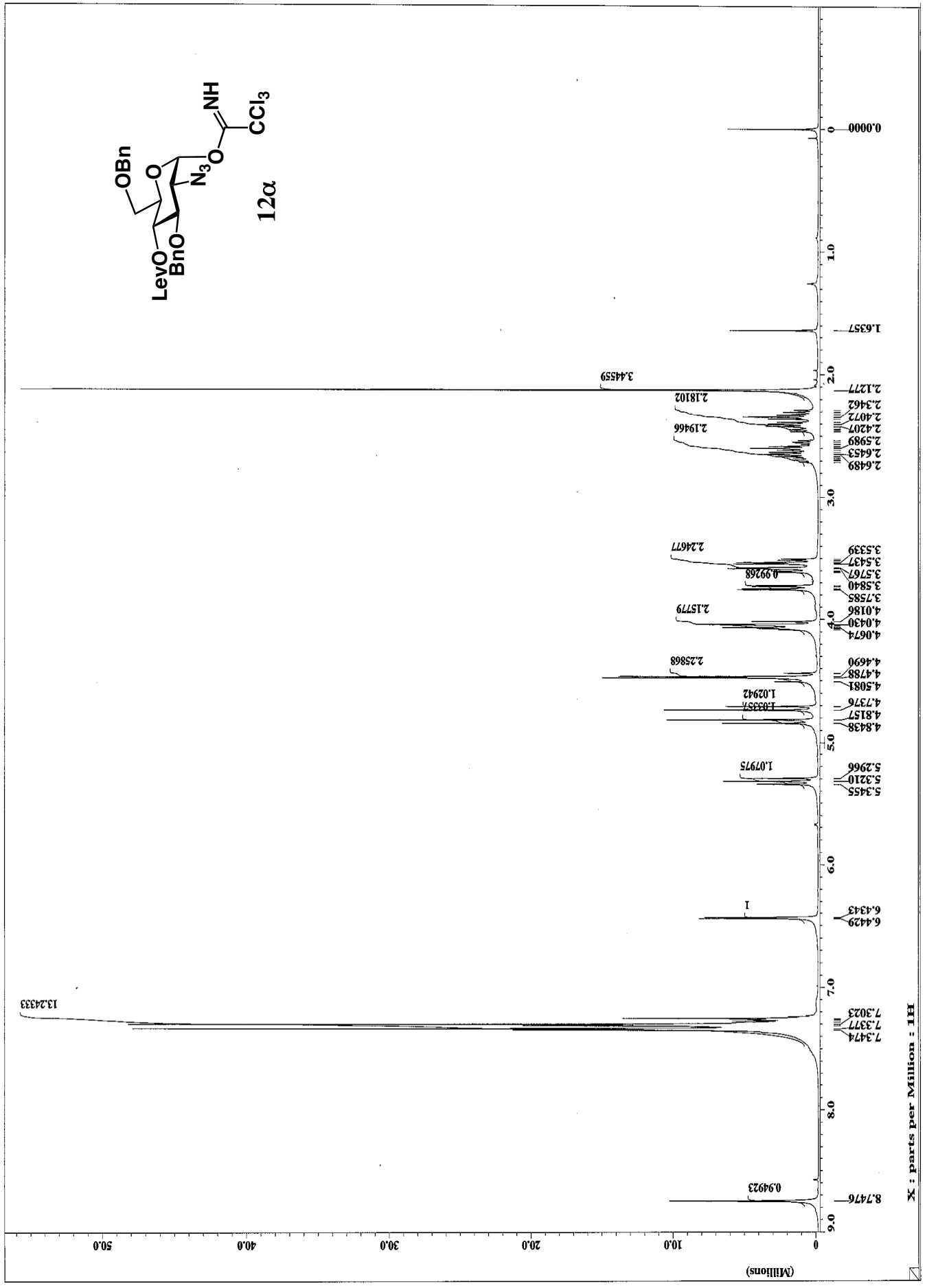
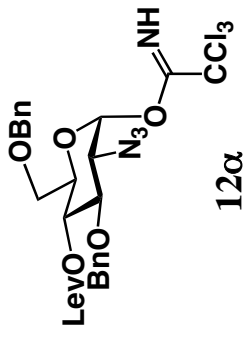
Hiroshi Tanaka, Yoshio Ando, Masatoshi Wada, and Takashi Takahashi
*Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo
Institute of Technology, 2-12-1 Ookayama, Meguro, Tokyo 152-8552, Japan, and Nihon
Medi-Physics, 3-1, Kitasode, Sodegaura-Shi, Chiba 299-0266, Japan.*

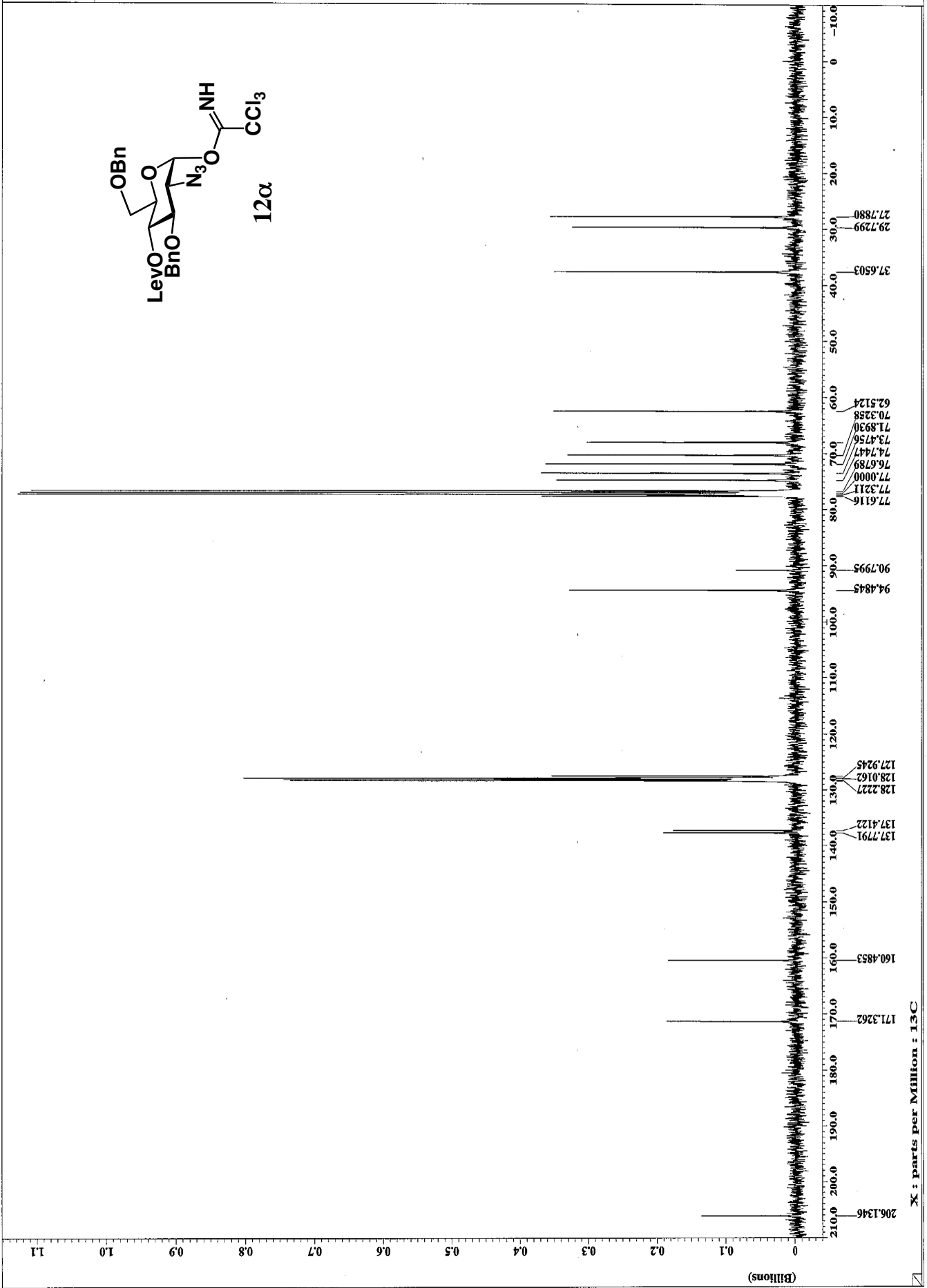
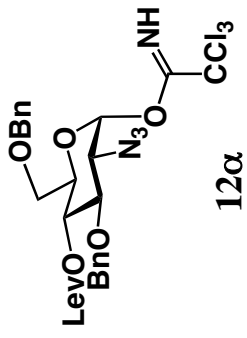


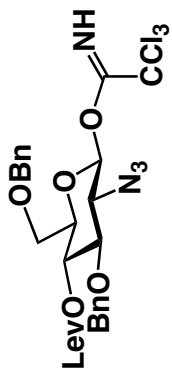
11



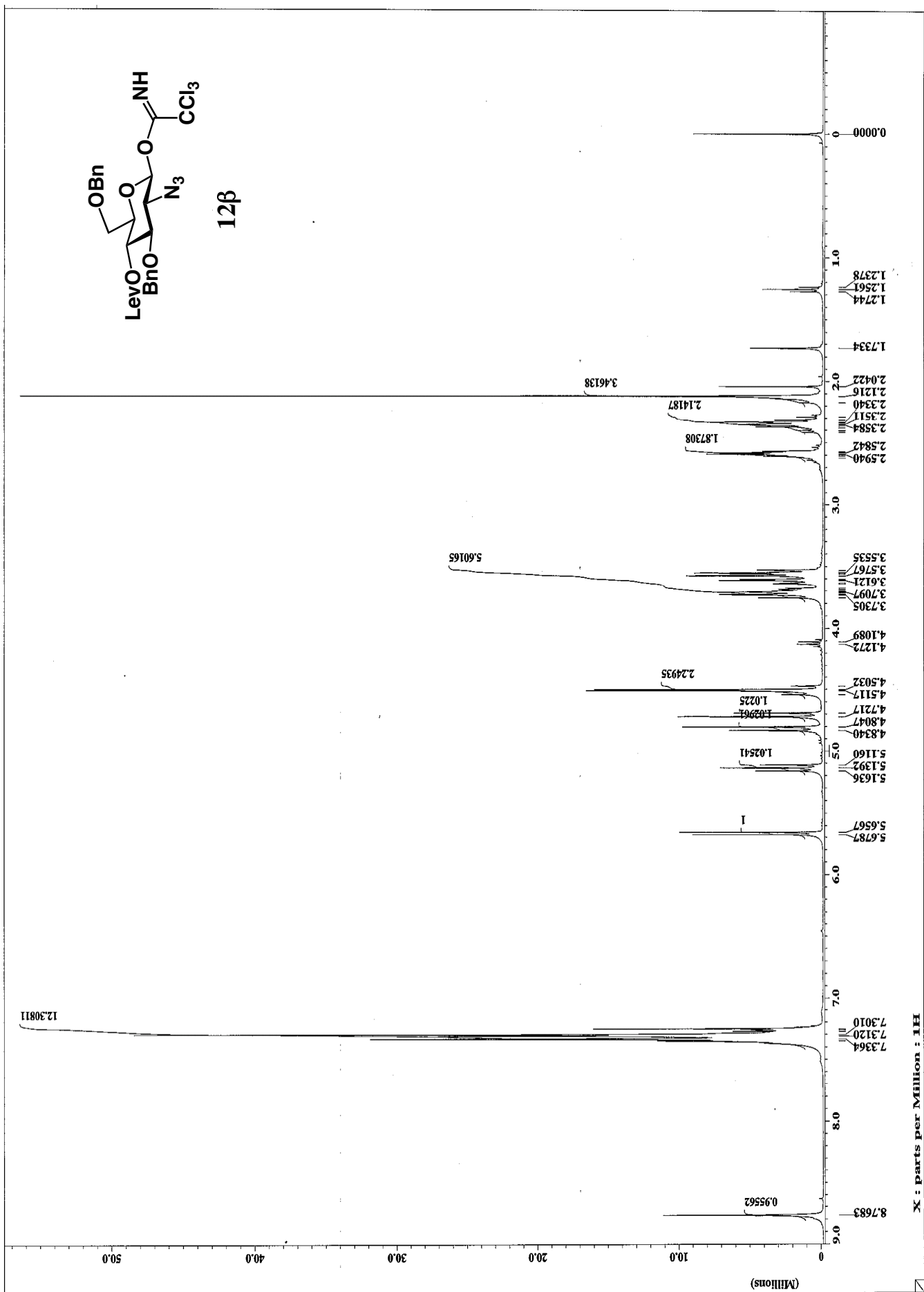


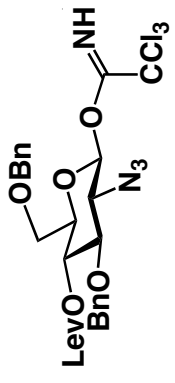




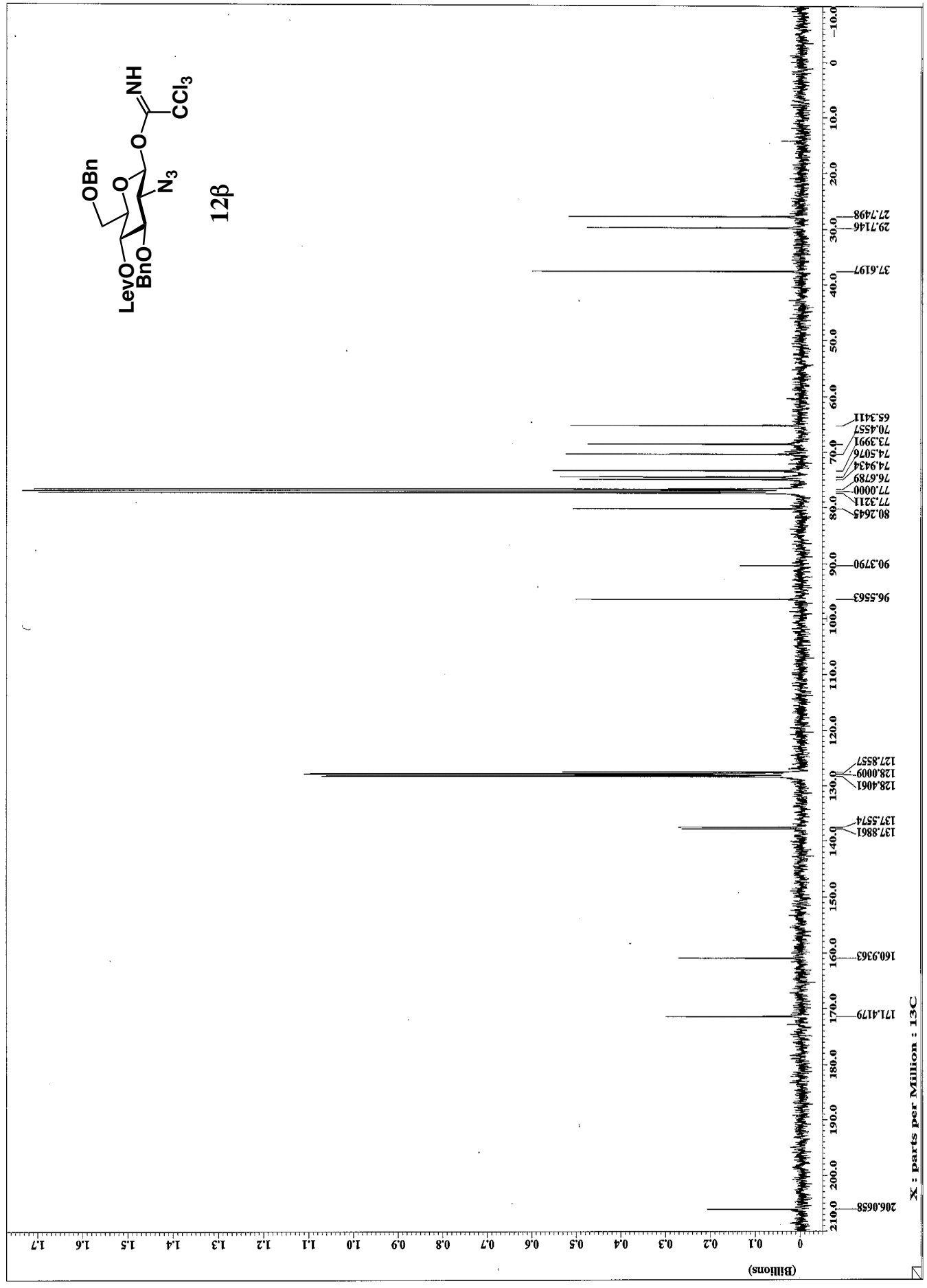


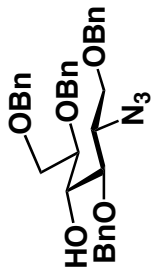
12 β



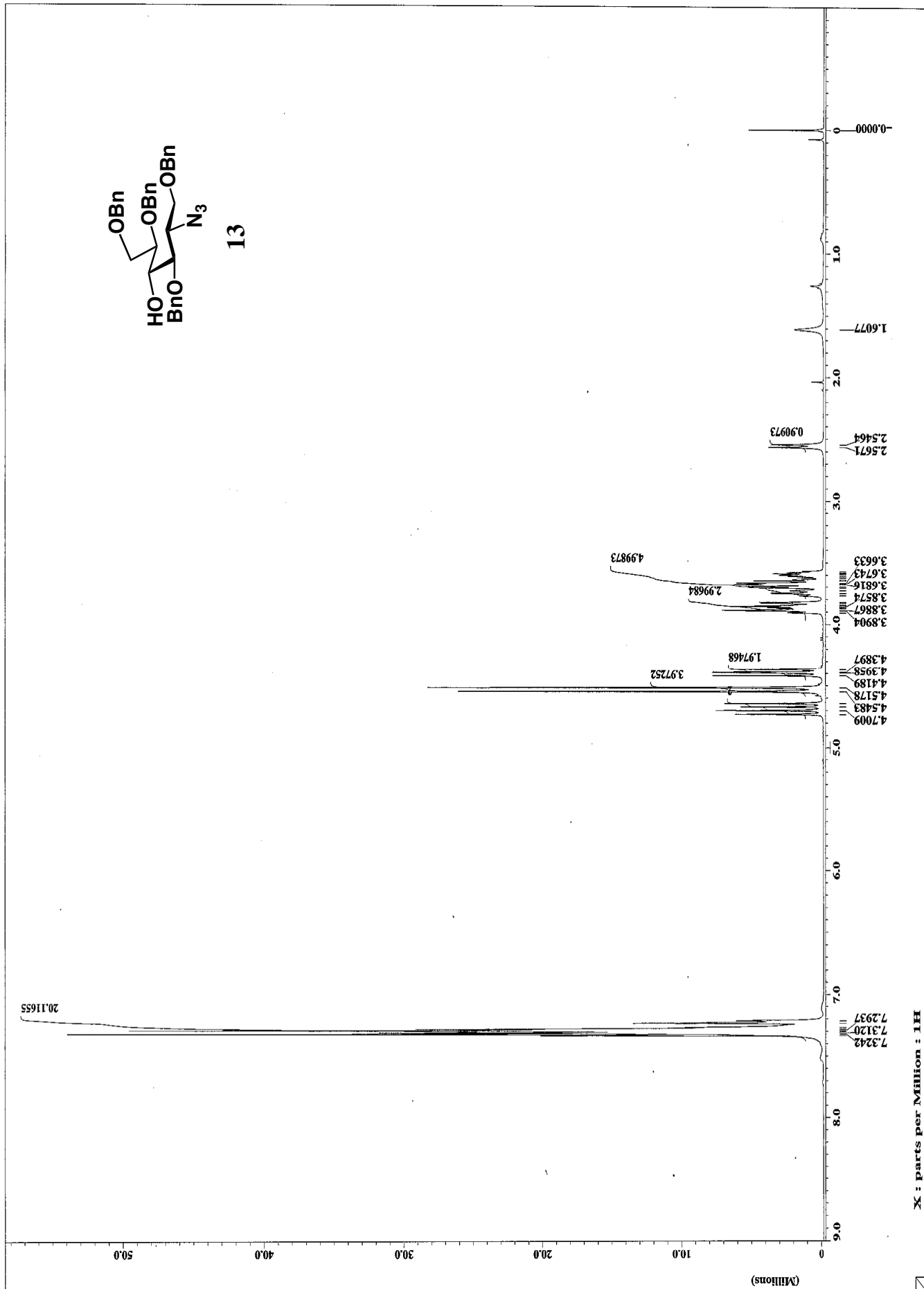


12β

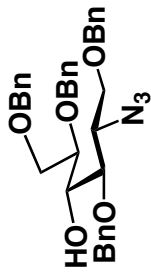




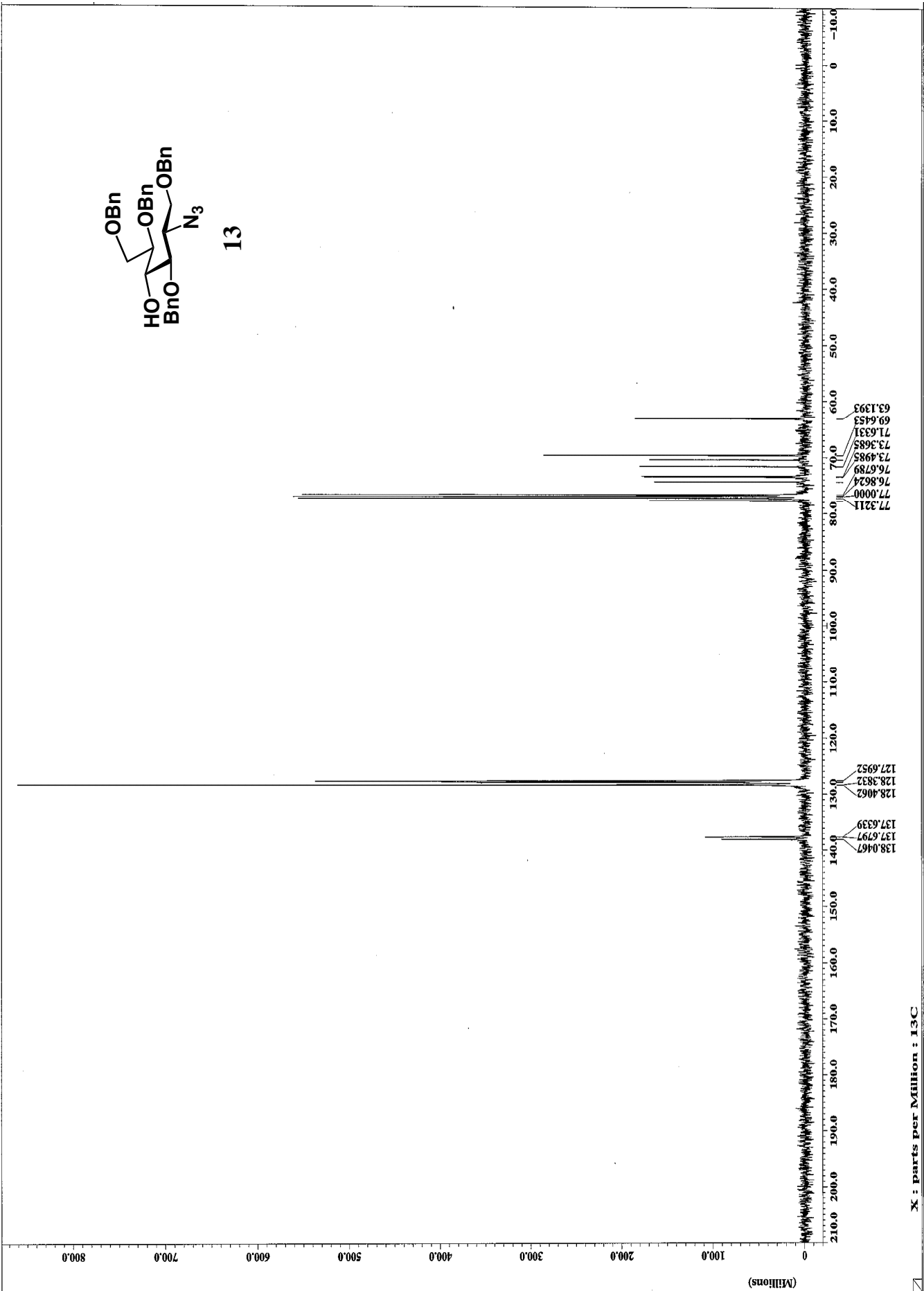
13



X : parts per Million : 1H

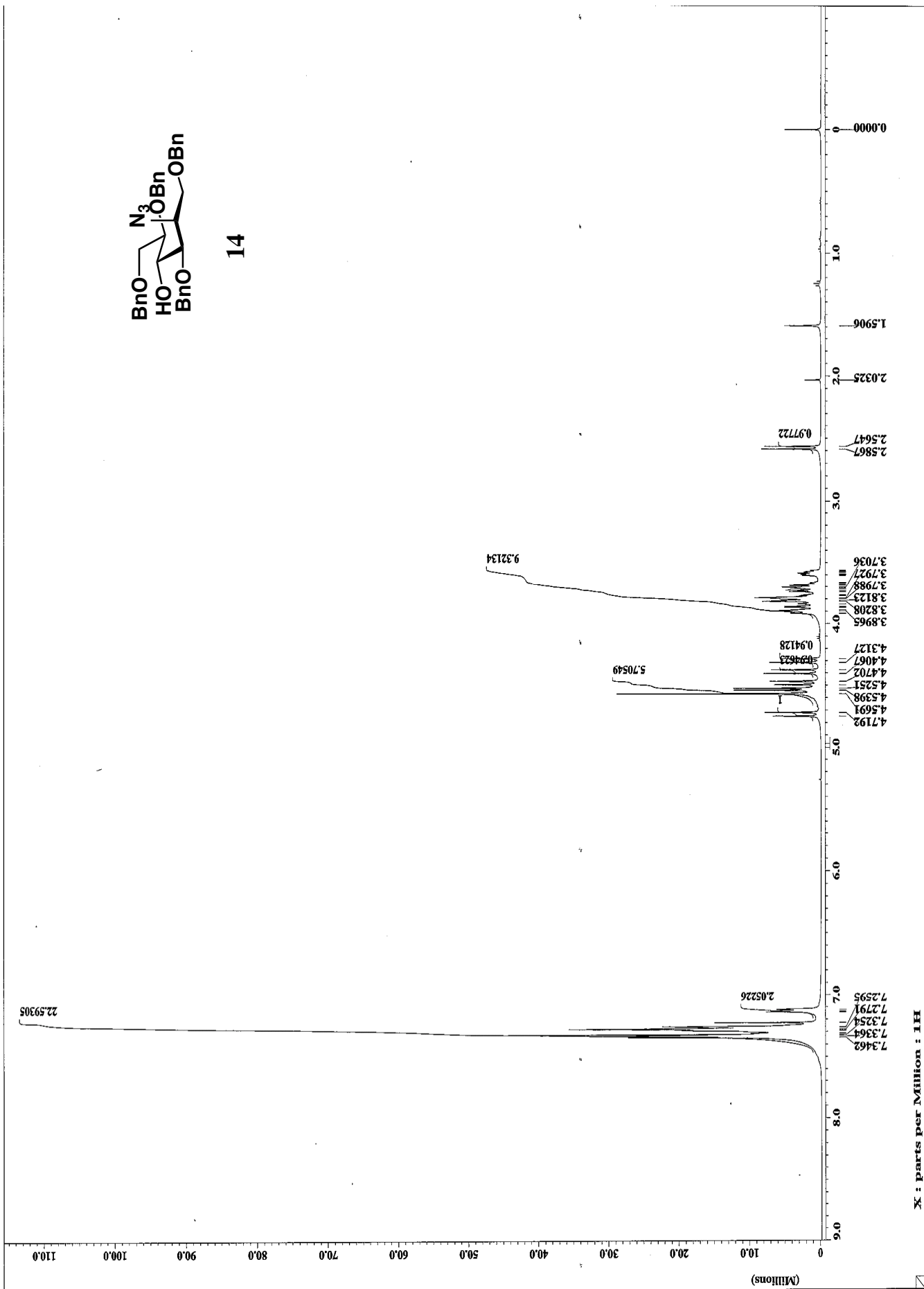


13





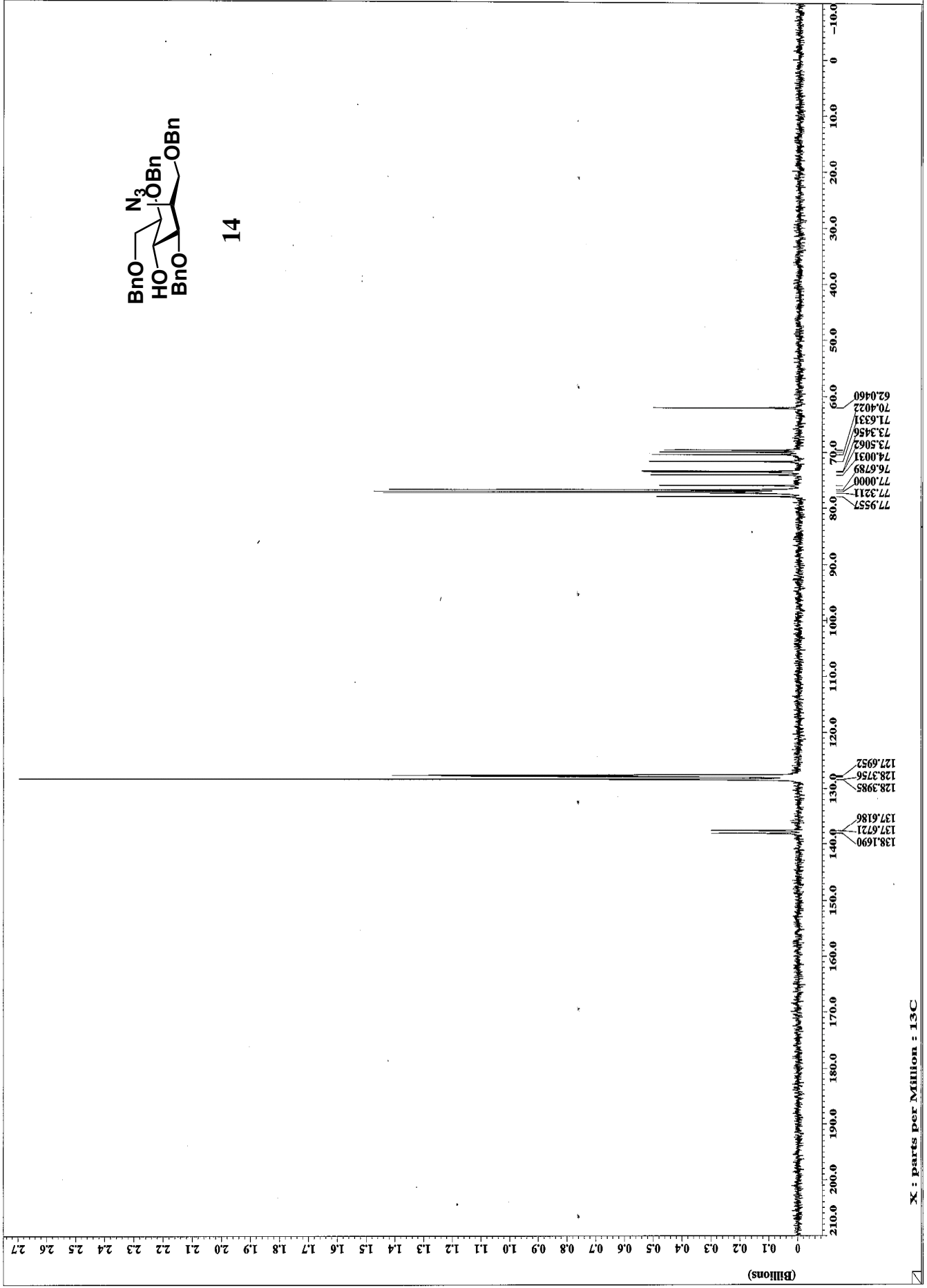
14



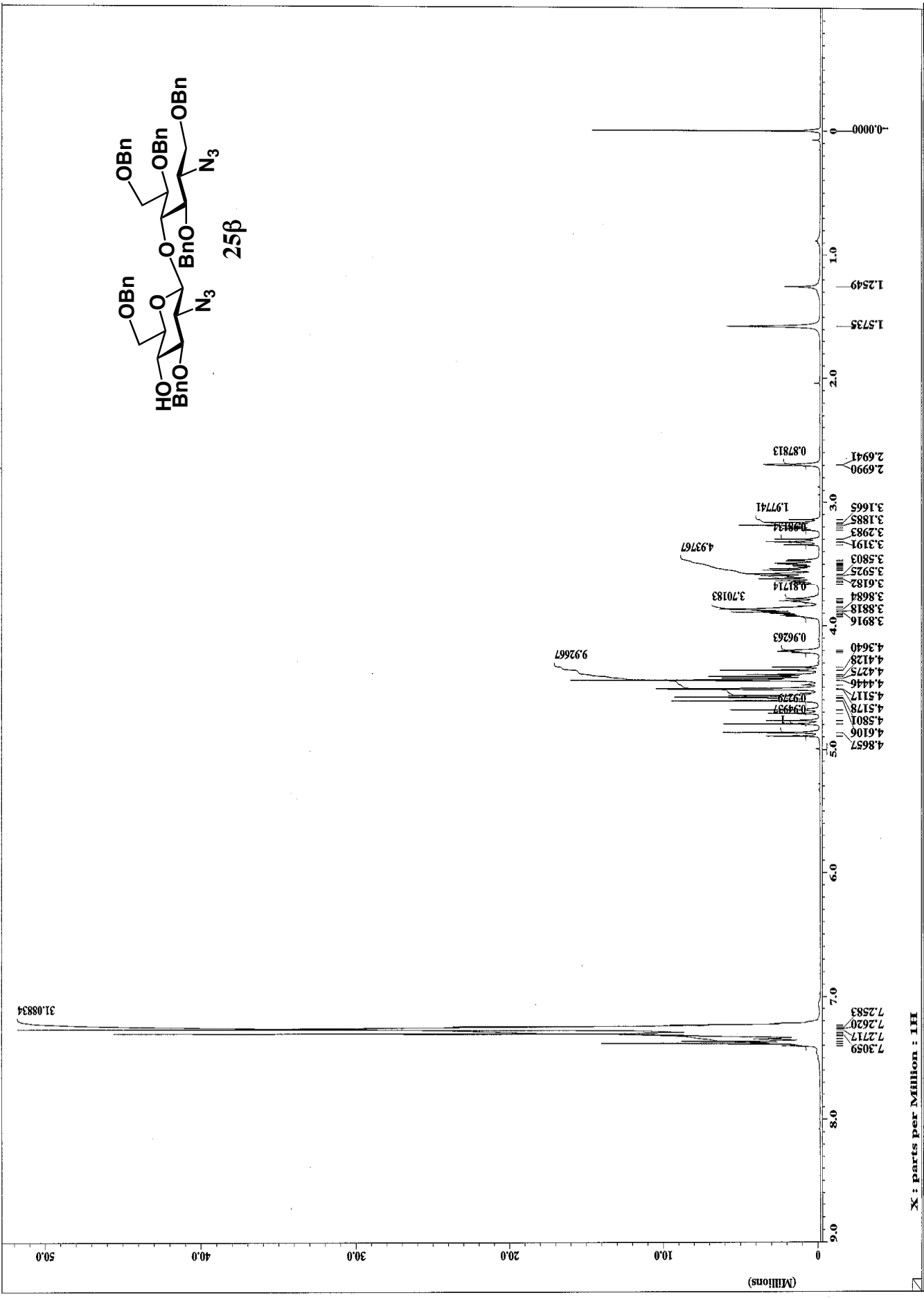
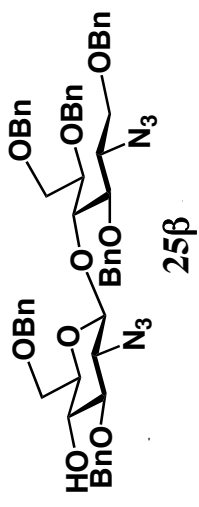
X : parts per Million : 1H



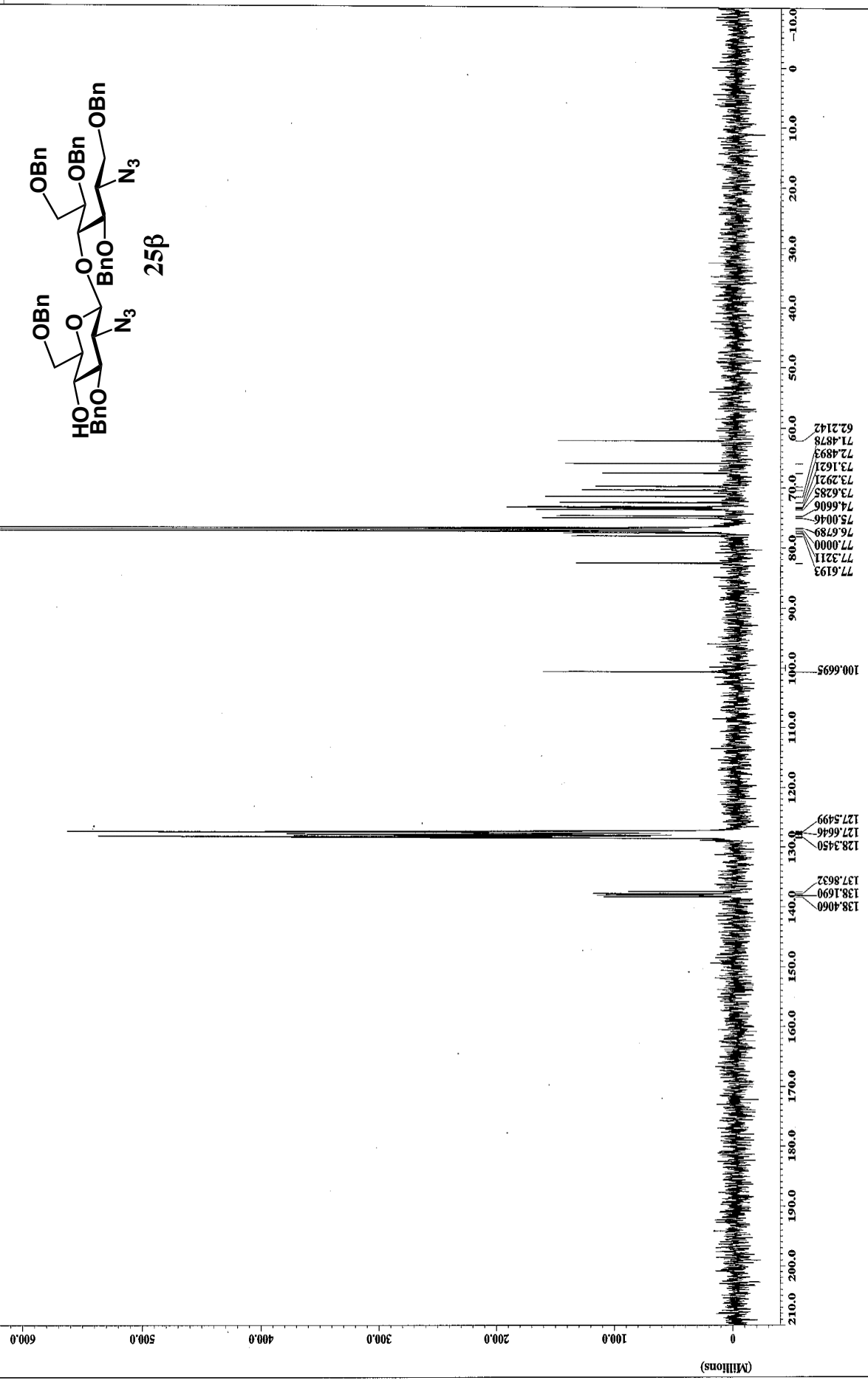
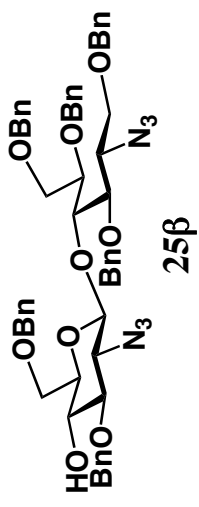
14



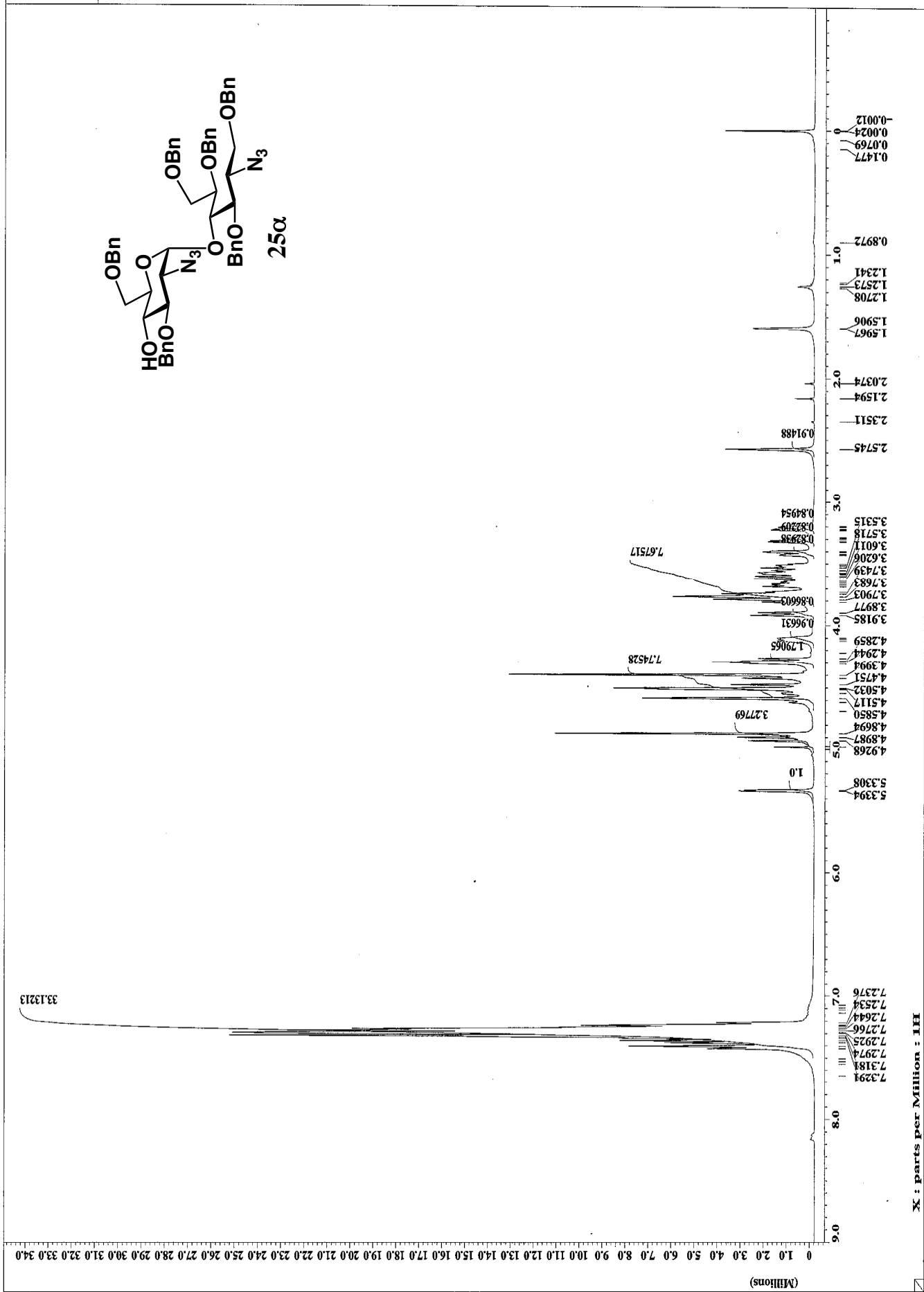
X : parts per Million : 13C

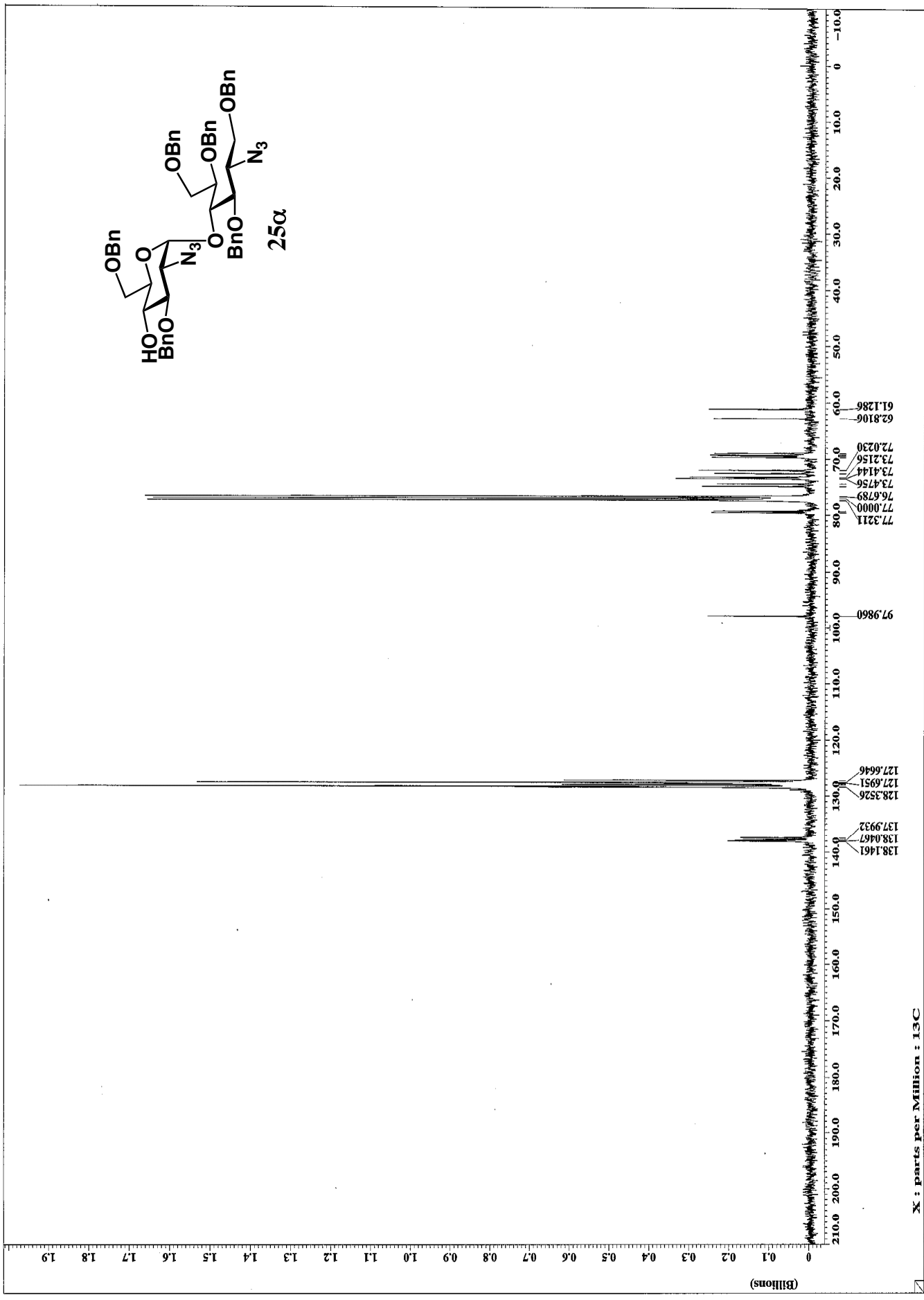
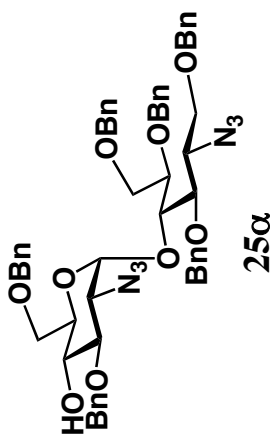


X : parts per Million : 1H

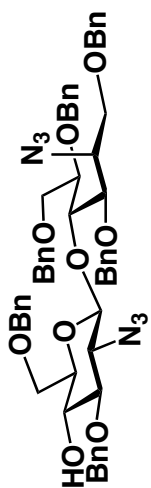


X : parts per Million : 13C

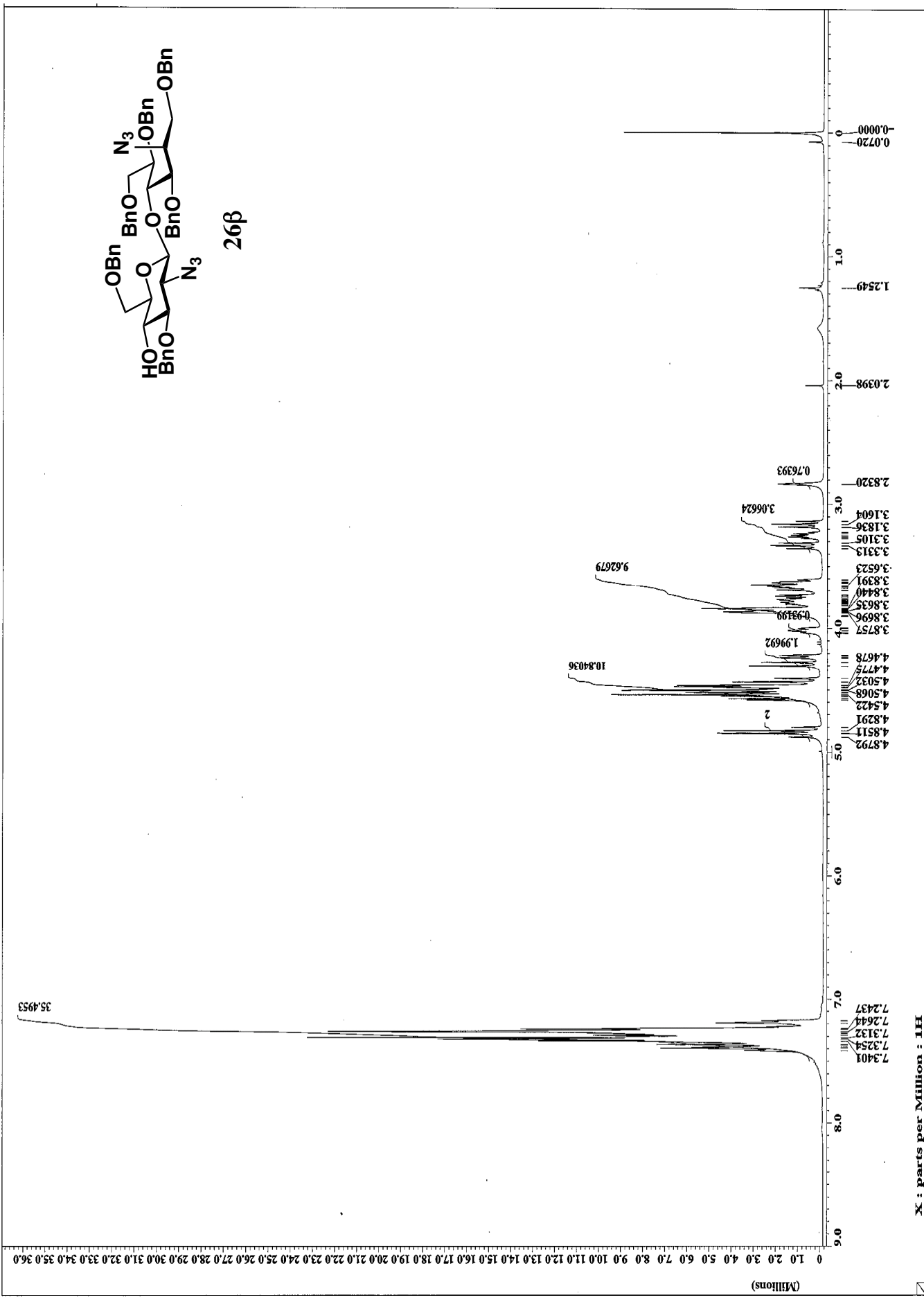


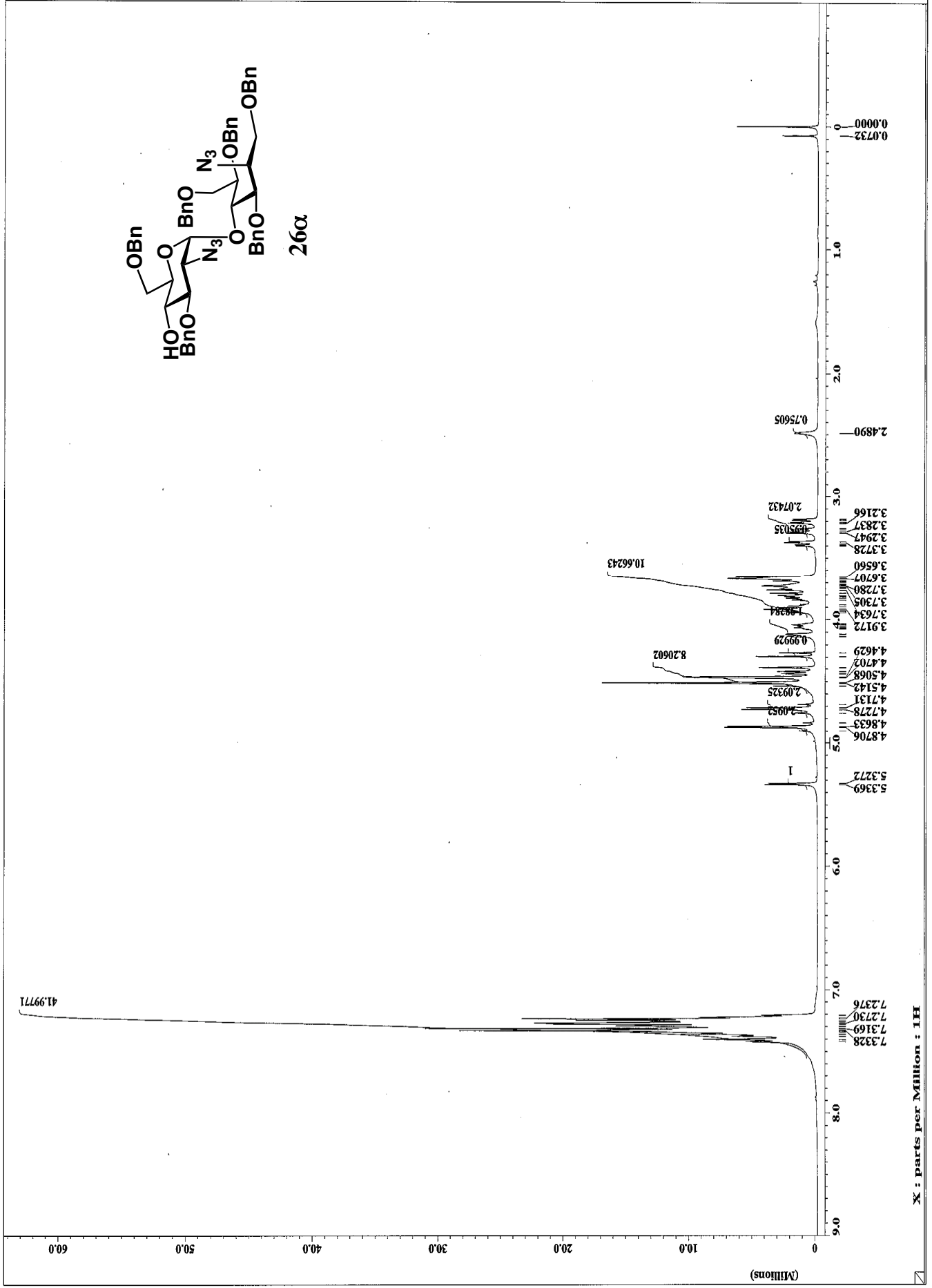
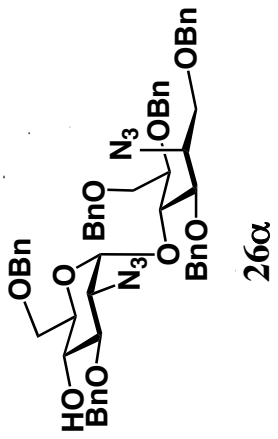


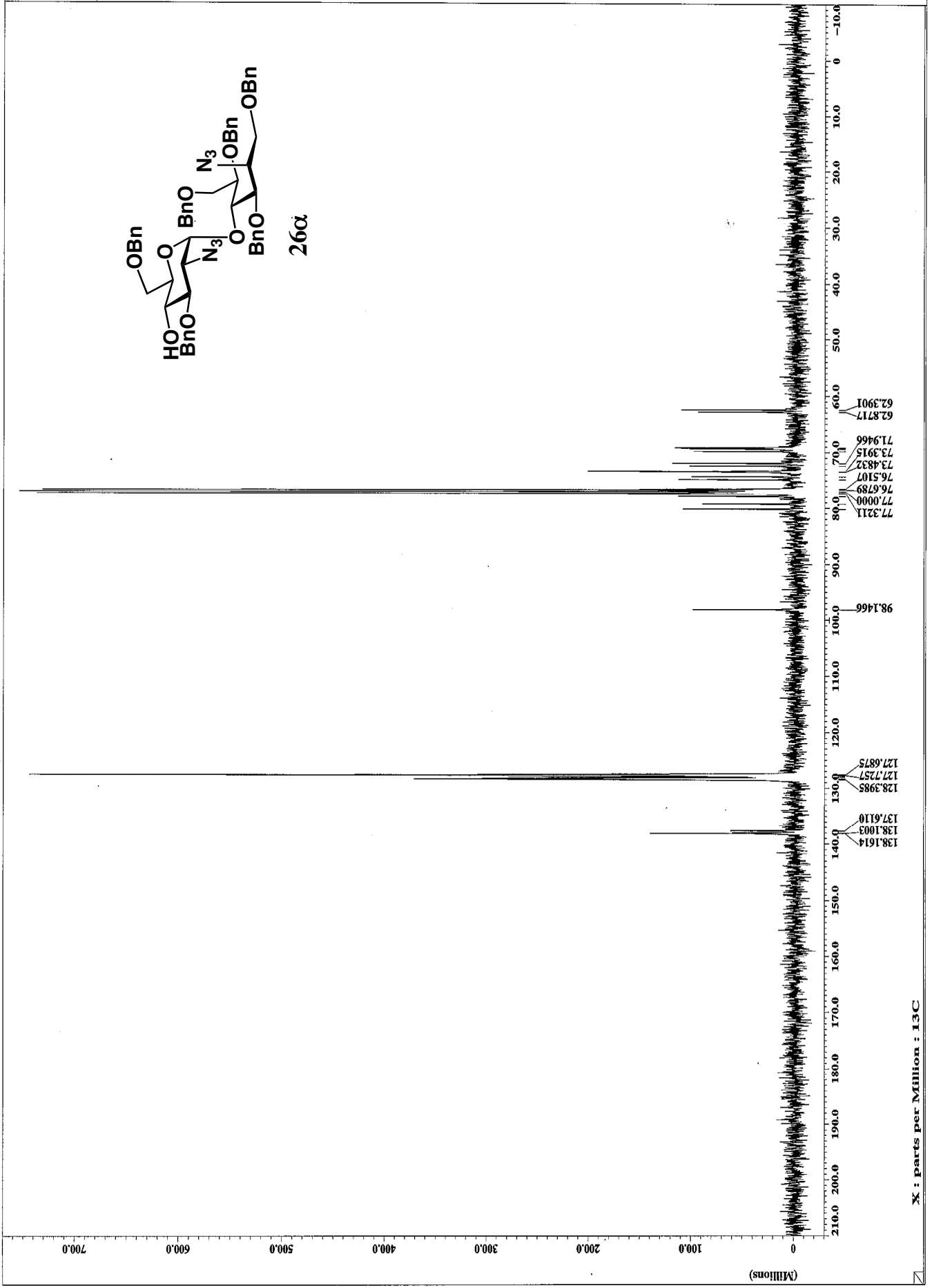
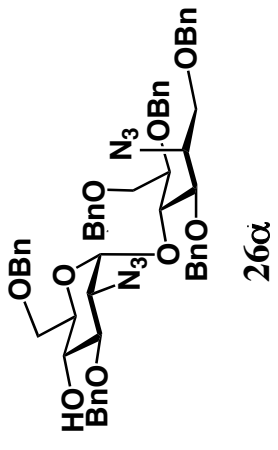
X : parts per Million : 13C



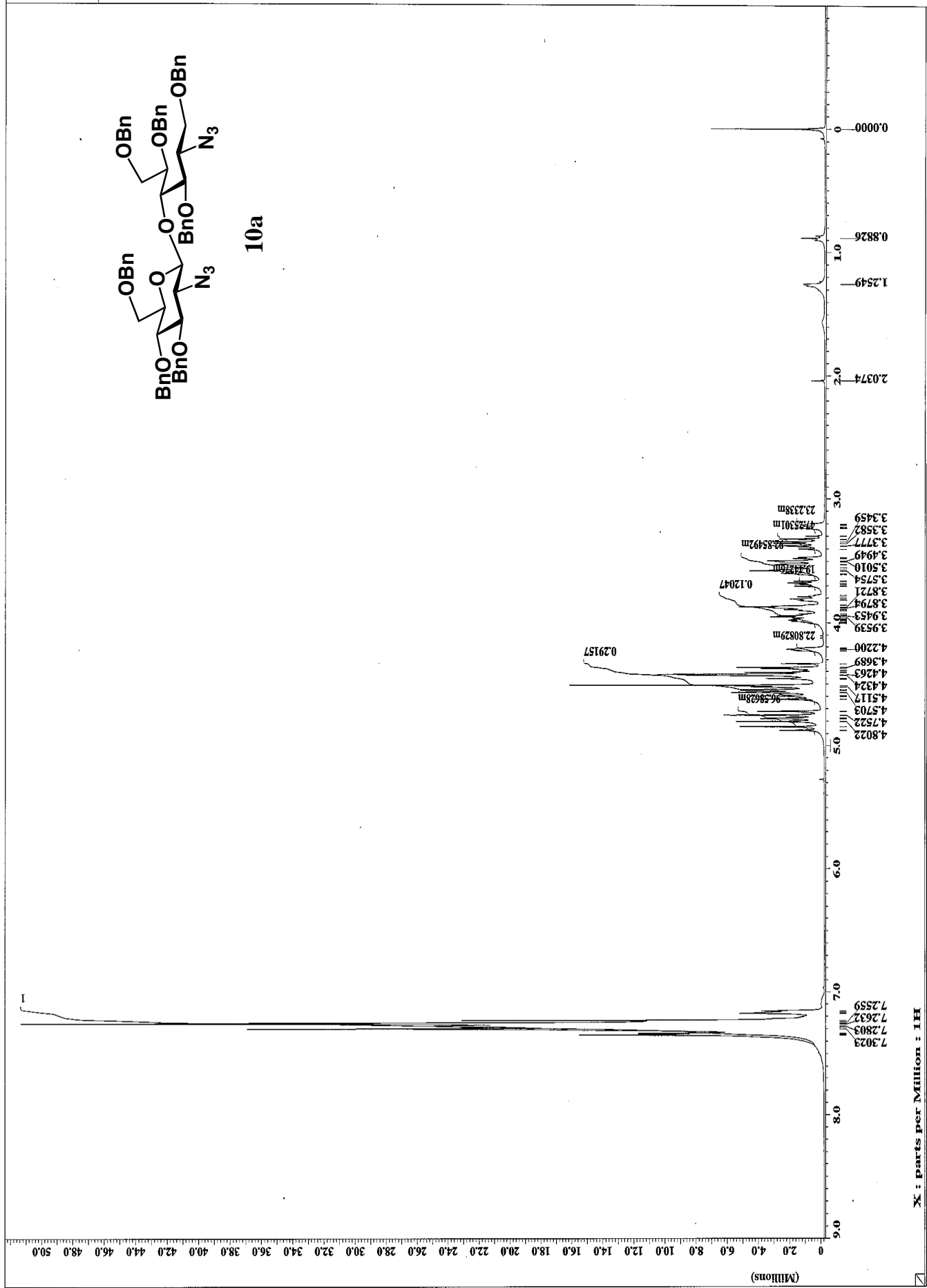
26β

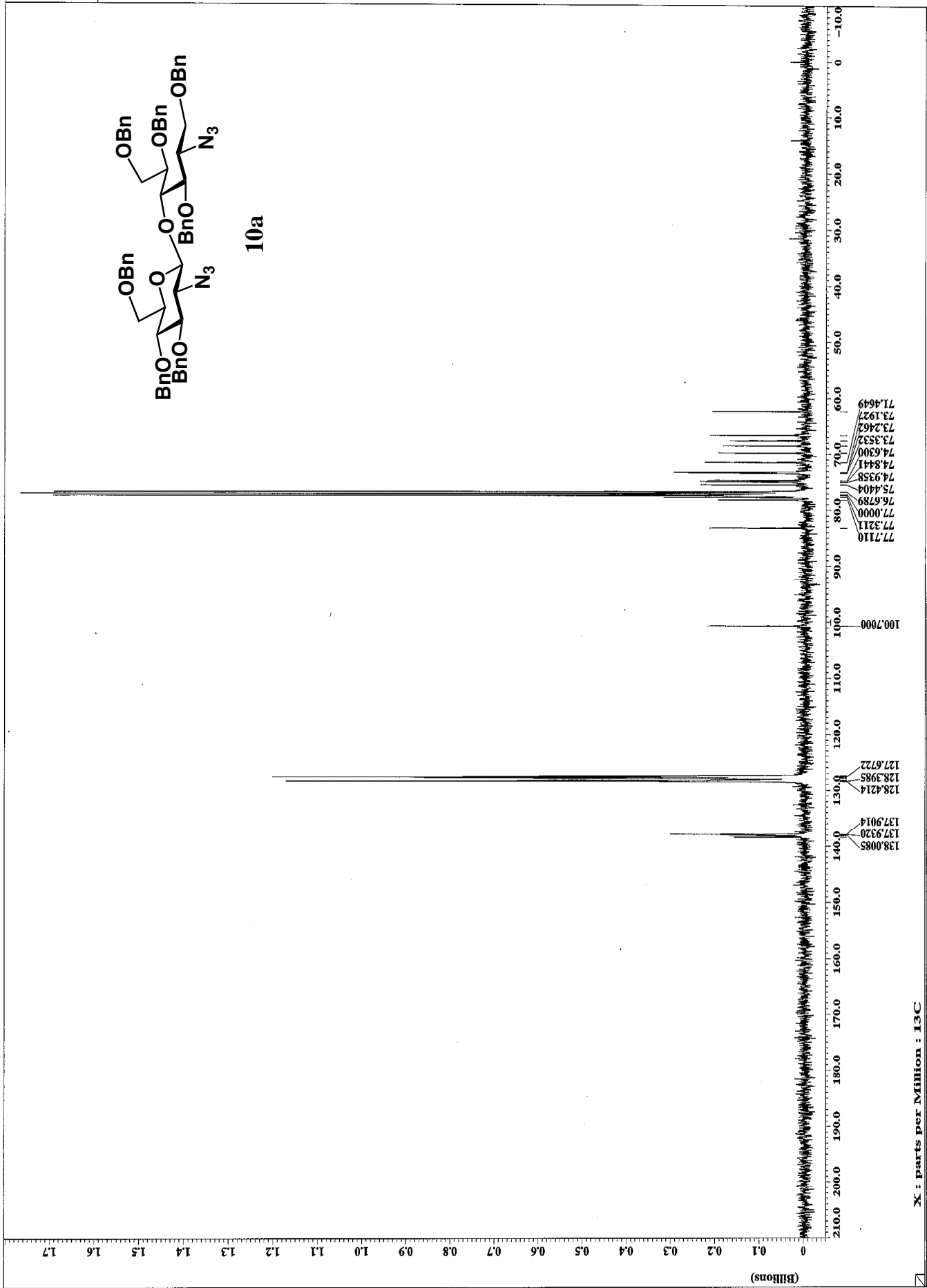


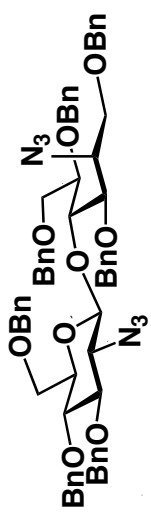




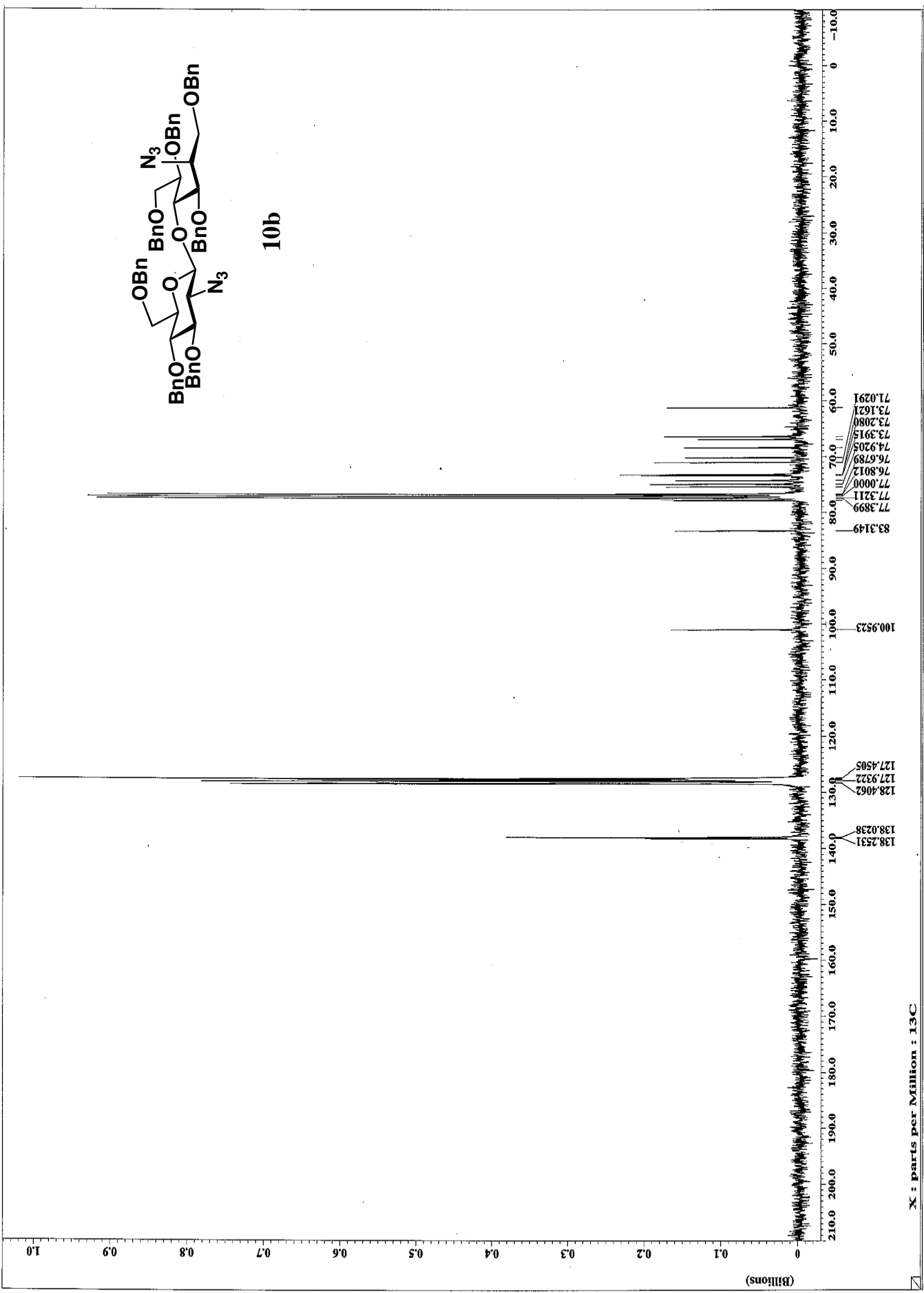
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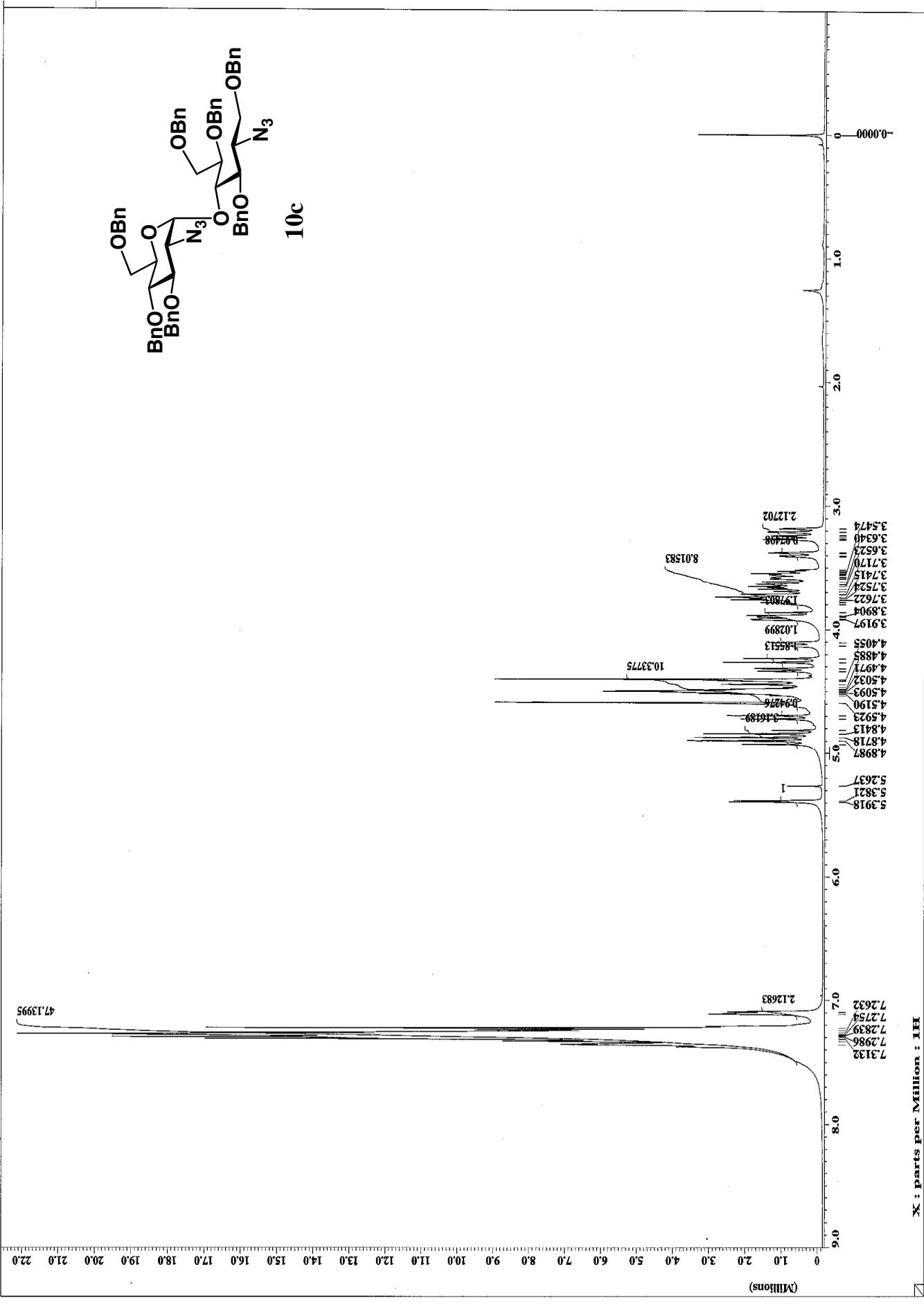


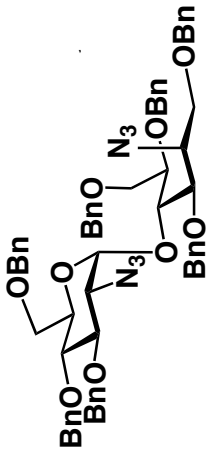


10b

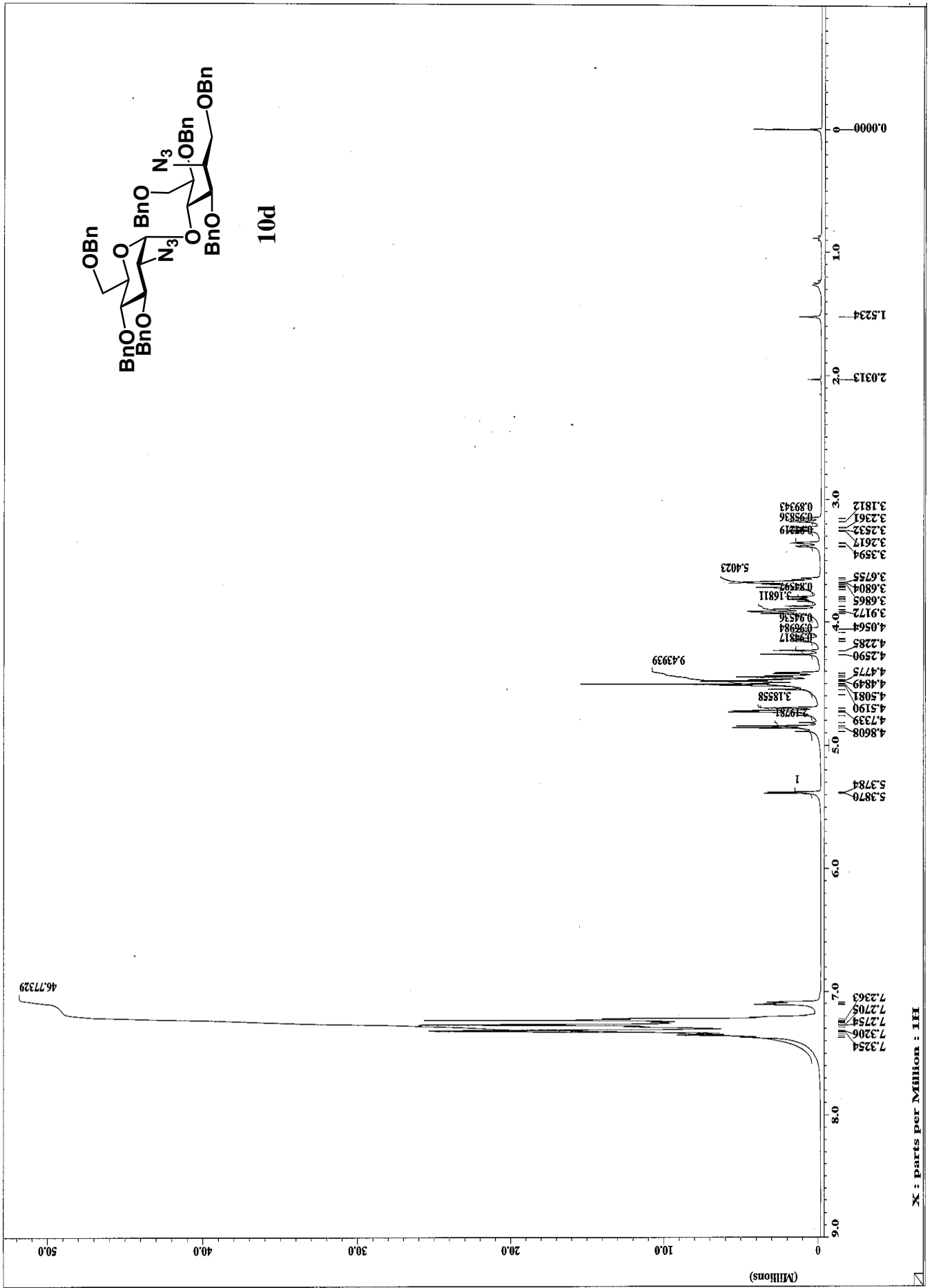


X : parts per Million : 13C

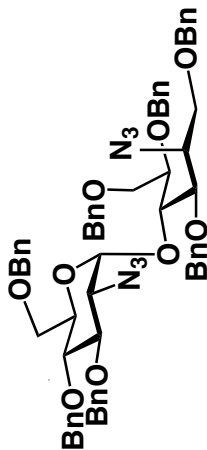




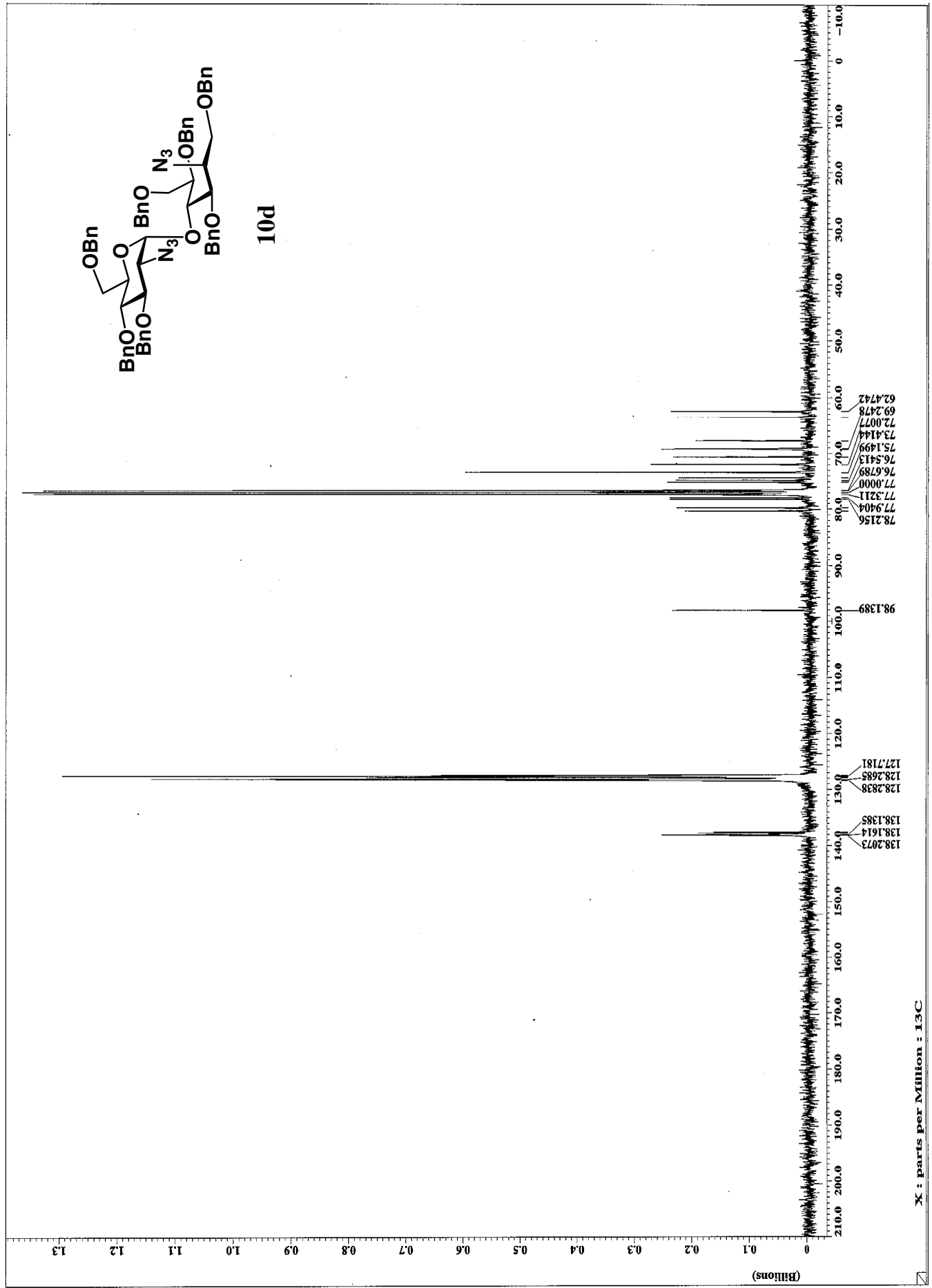
10I



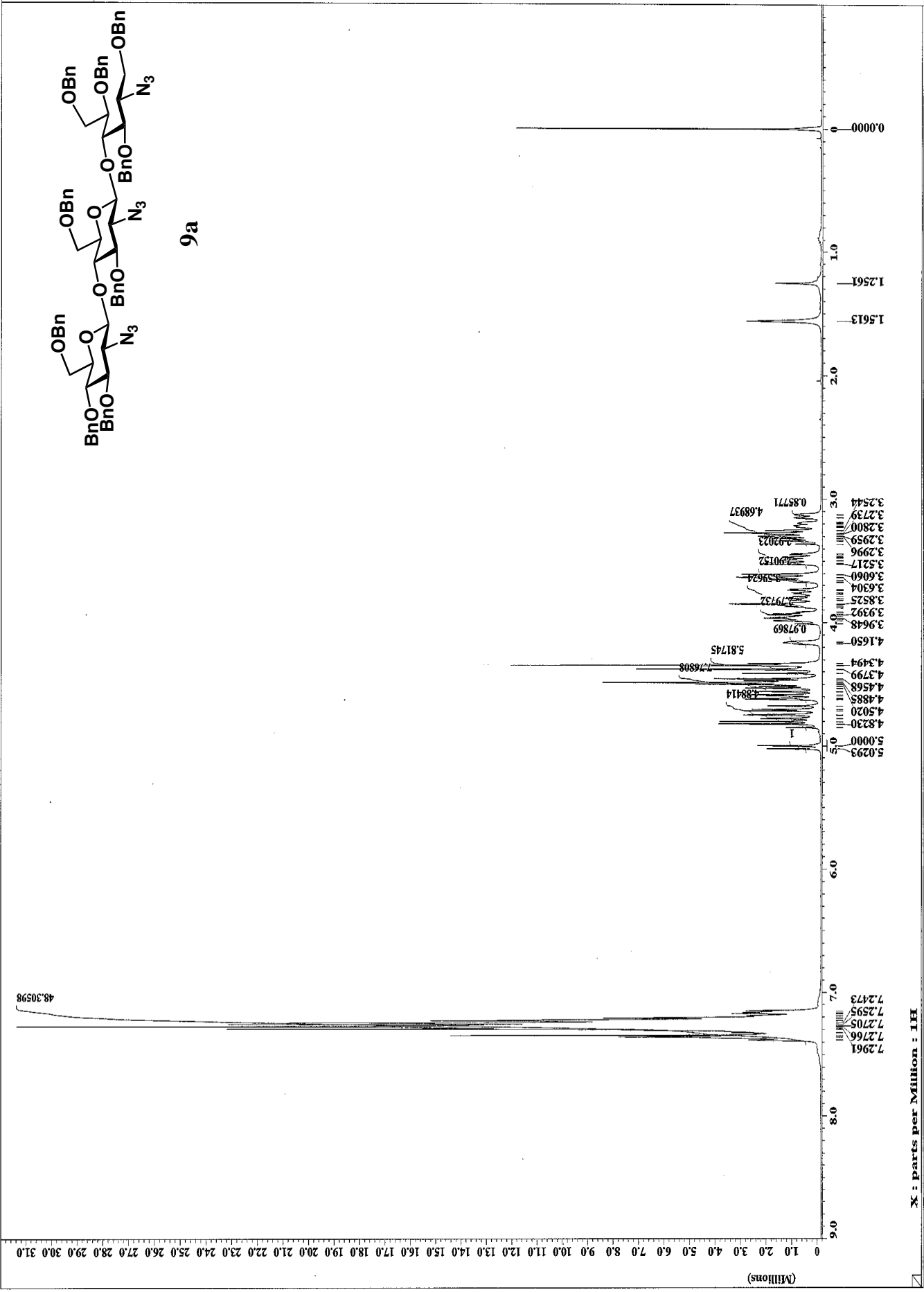
X : parts per Million : 1H



10d

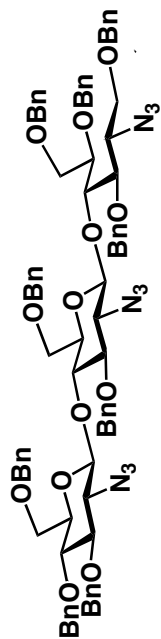


X : parts per Million : 13C

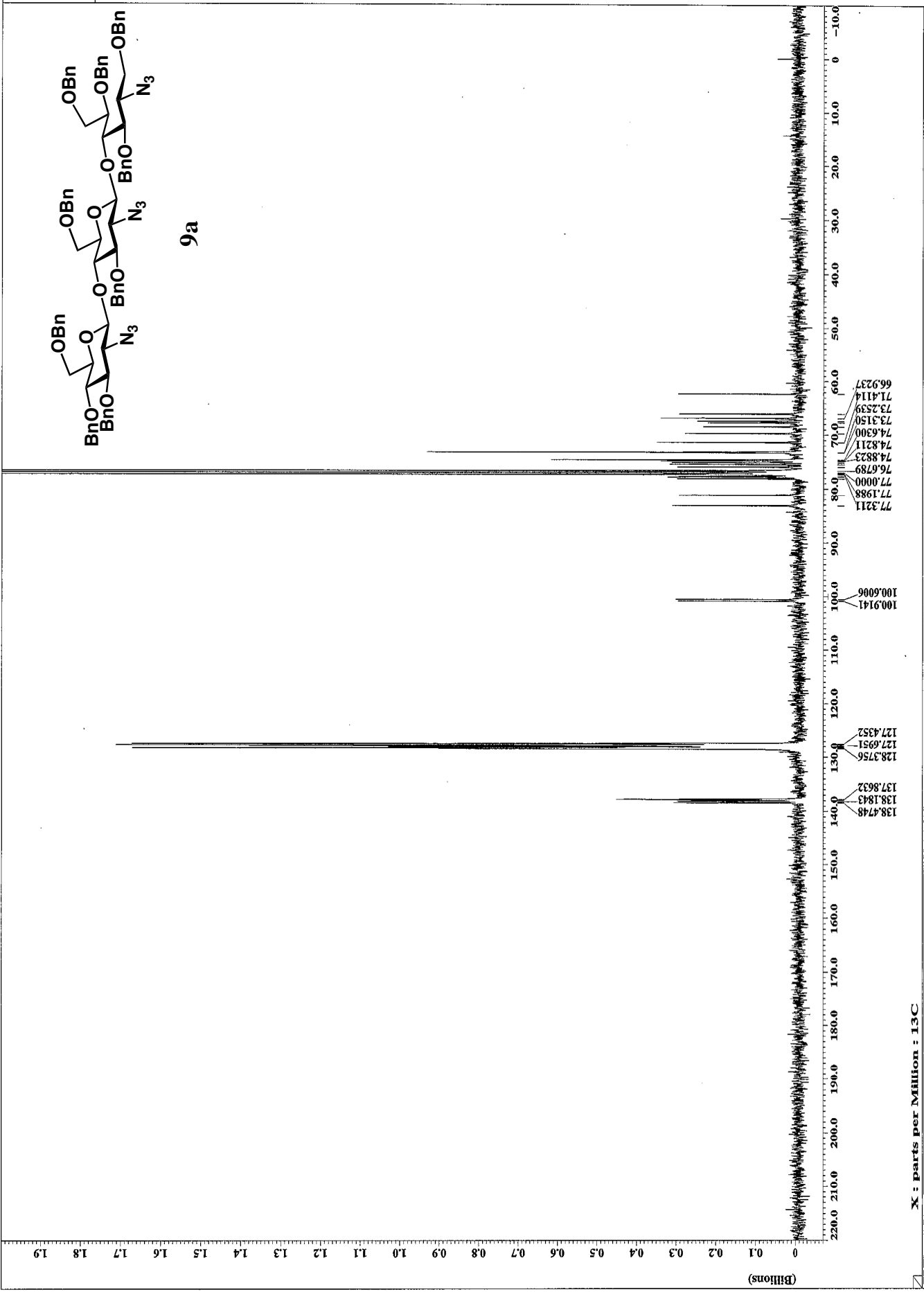


9a

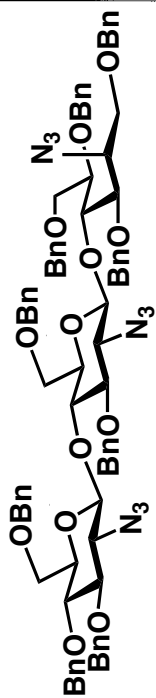
INT : parts per Million : X



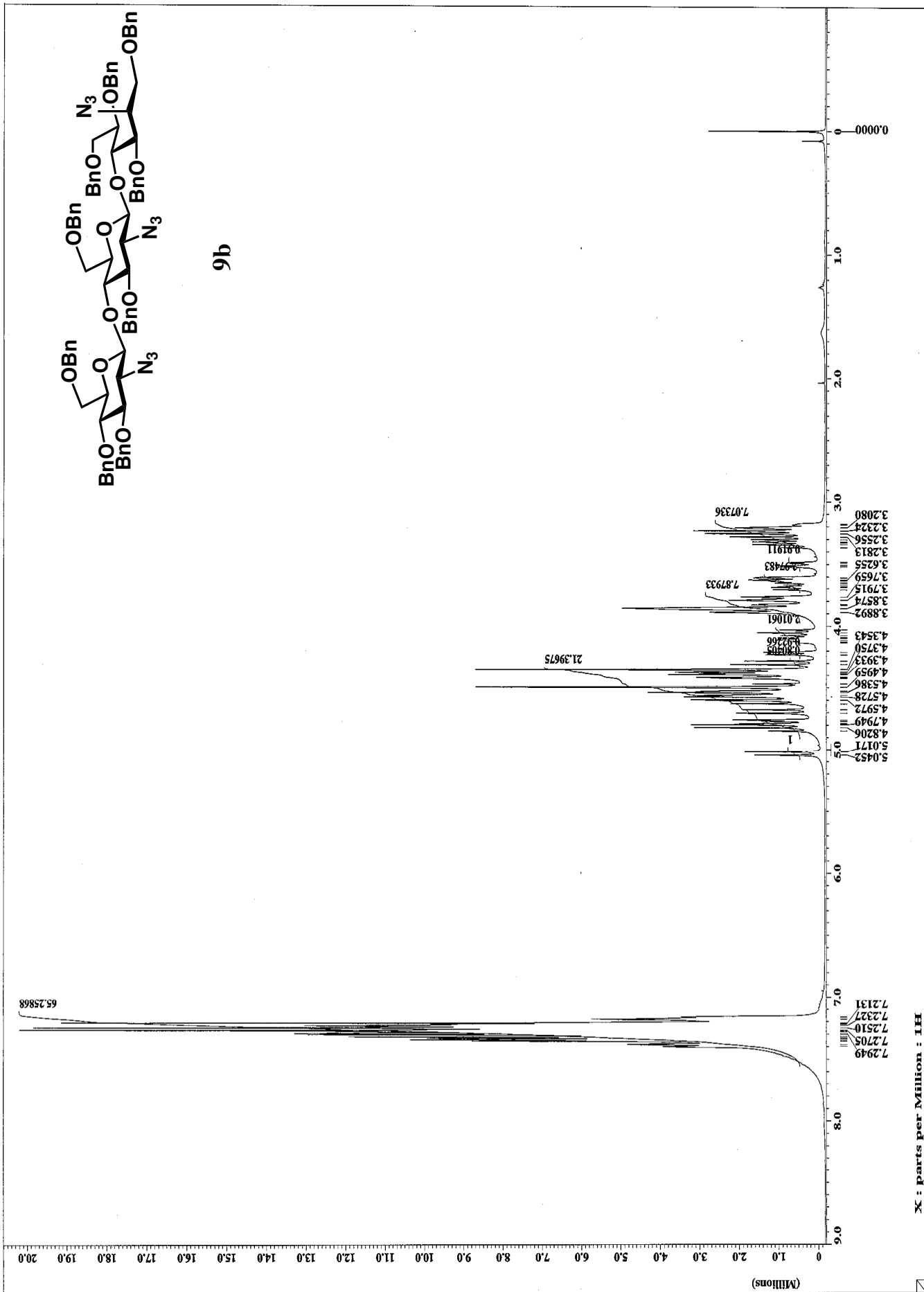
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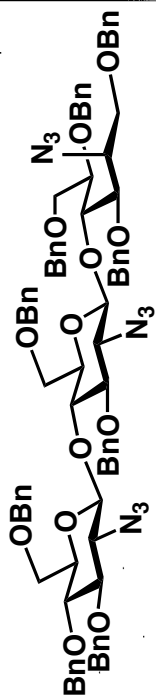


X : parts per Million : 13C

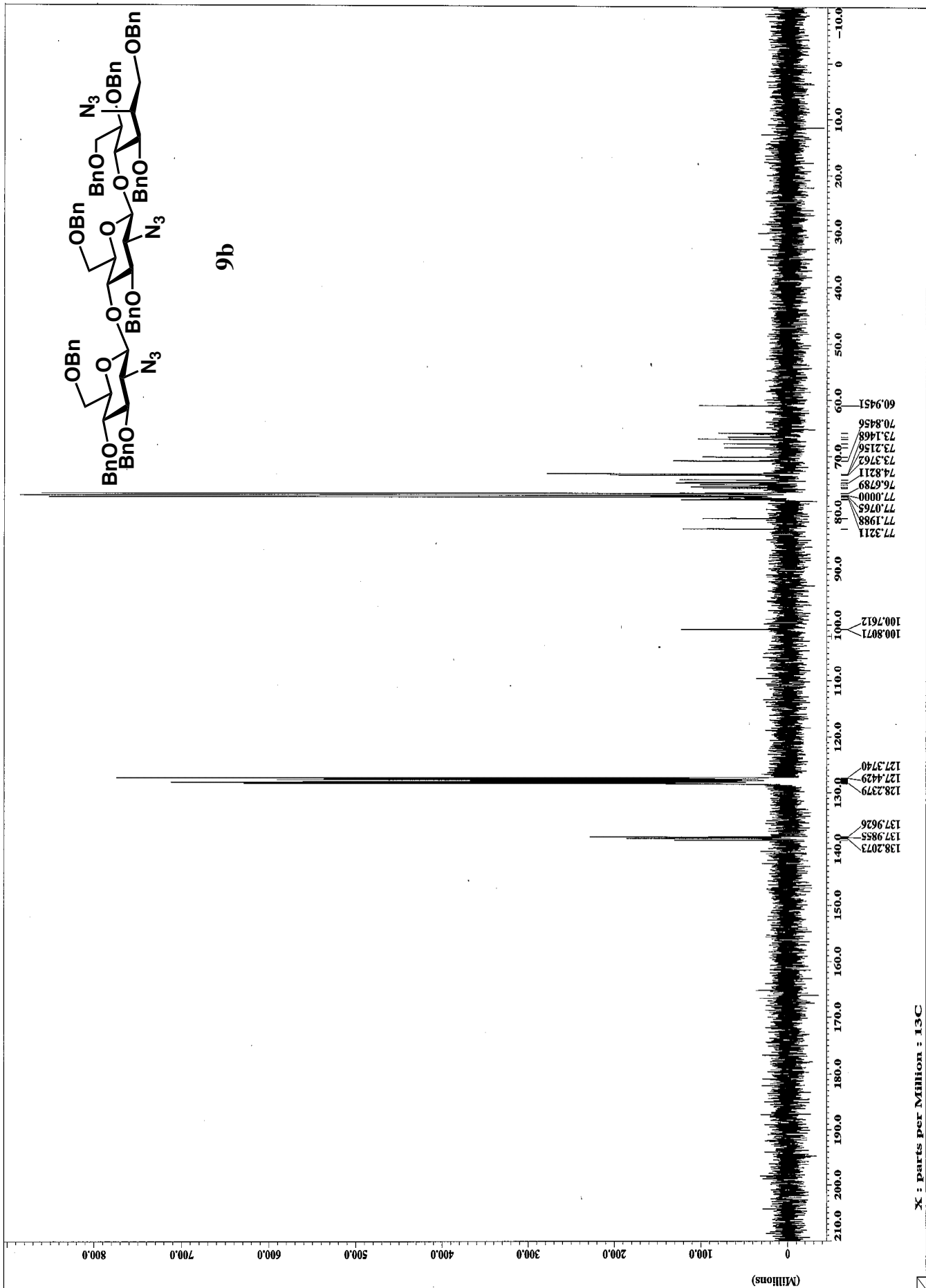


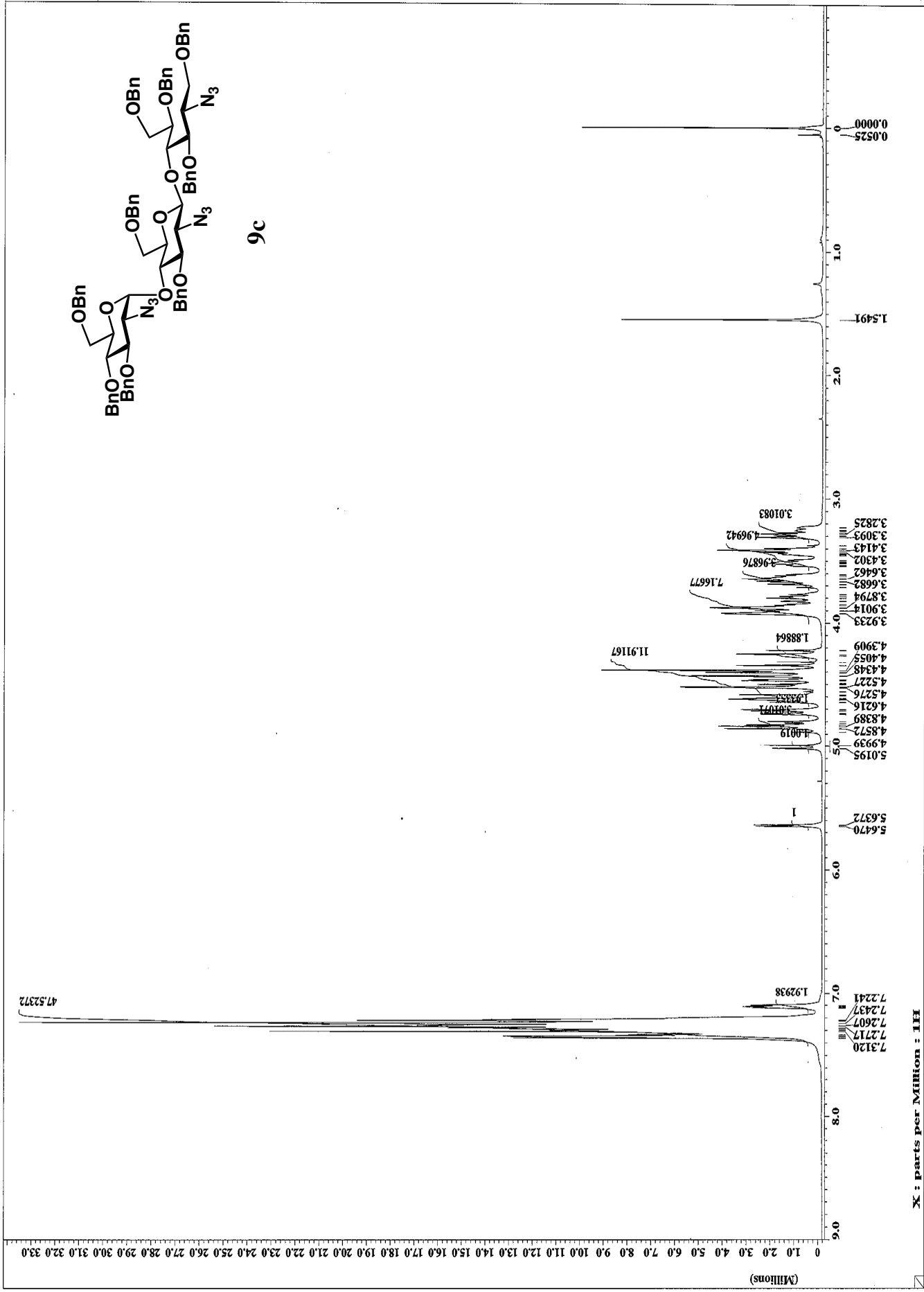
9b

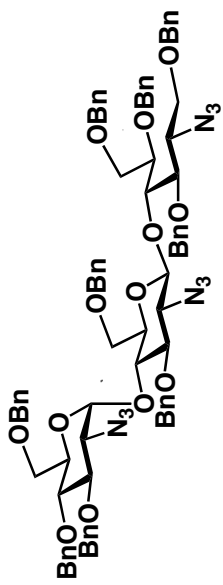




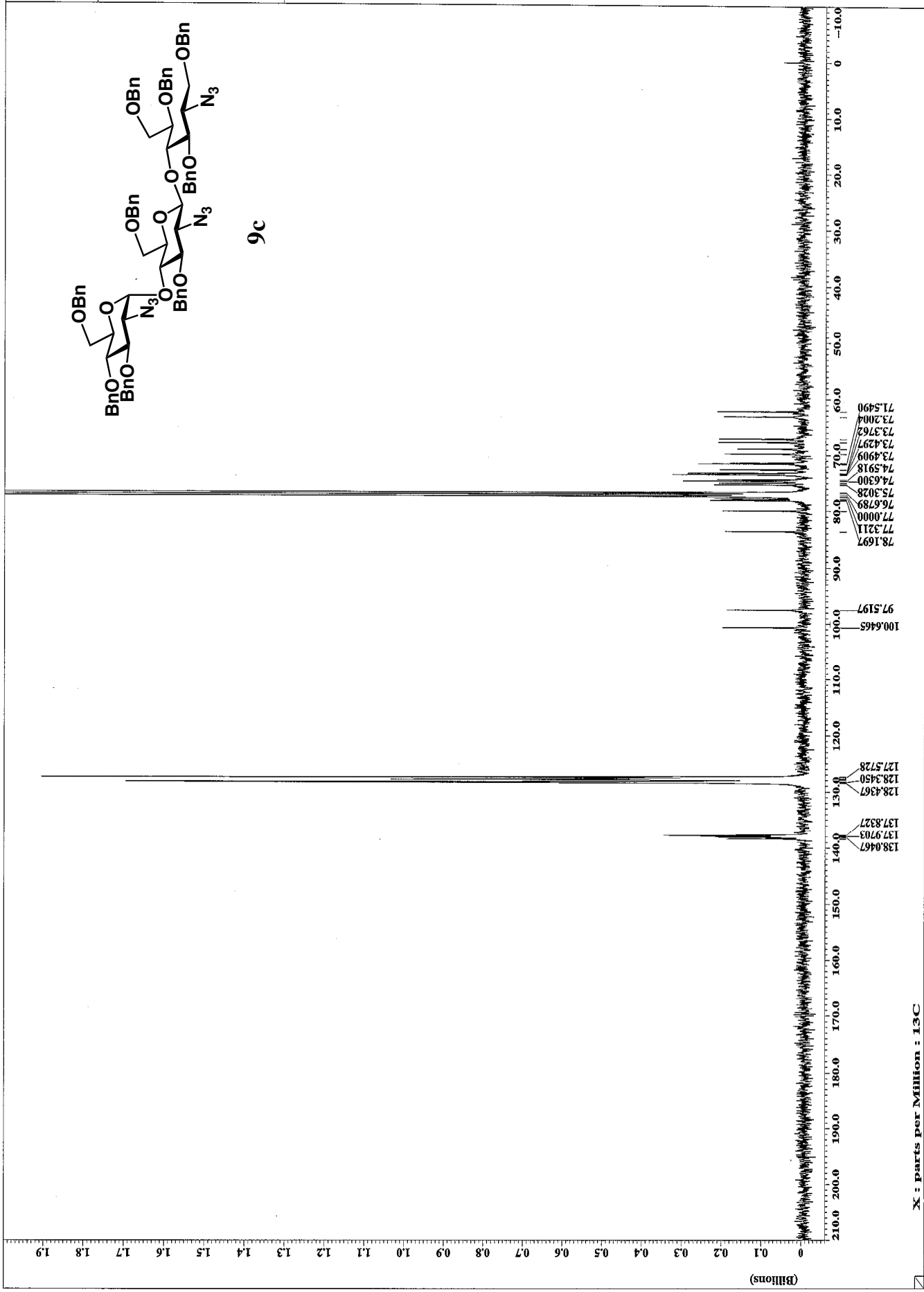
9b





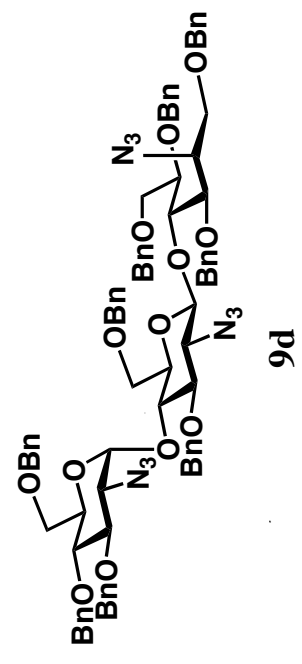
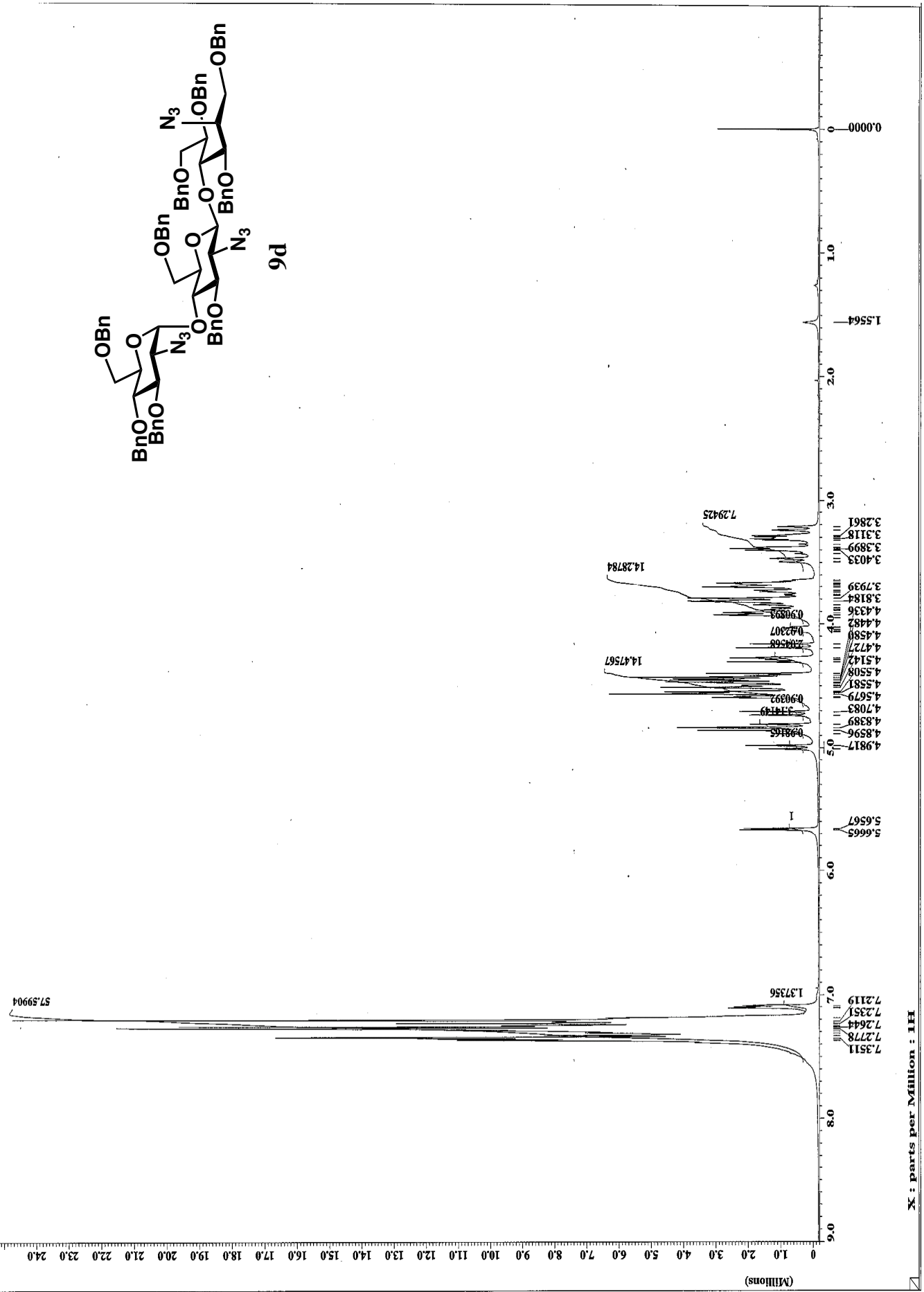


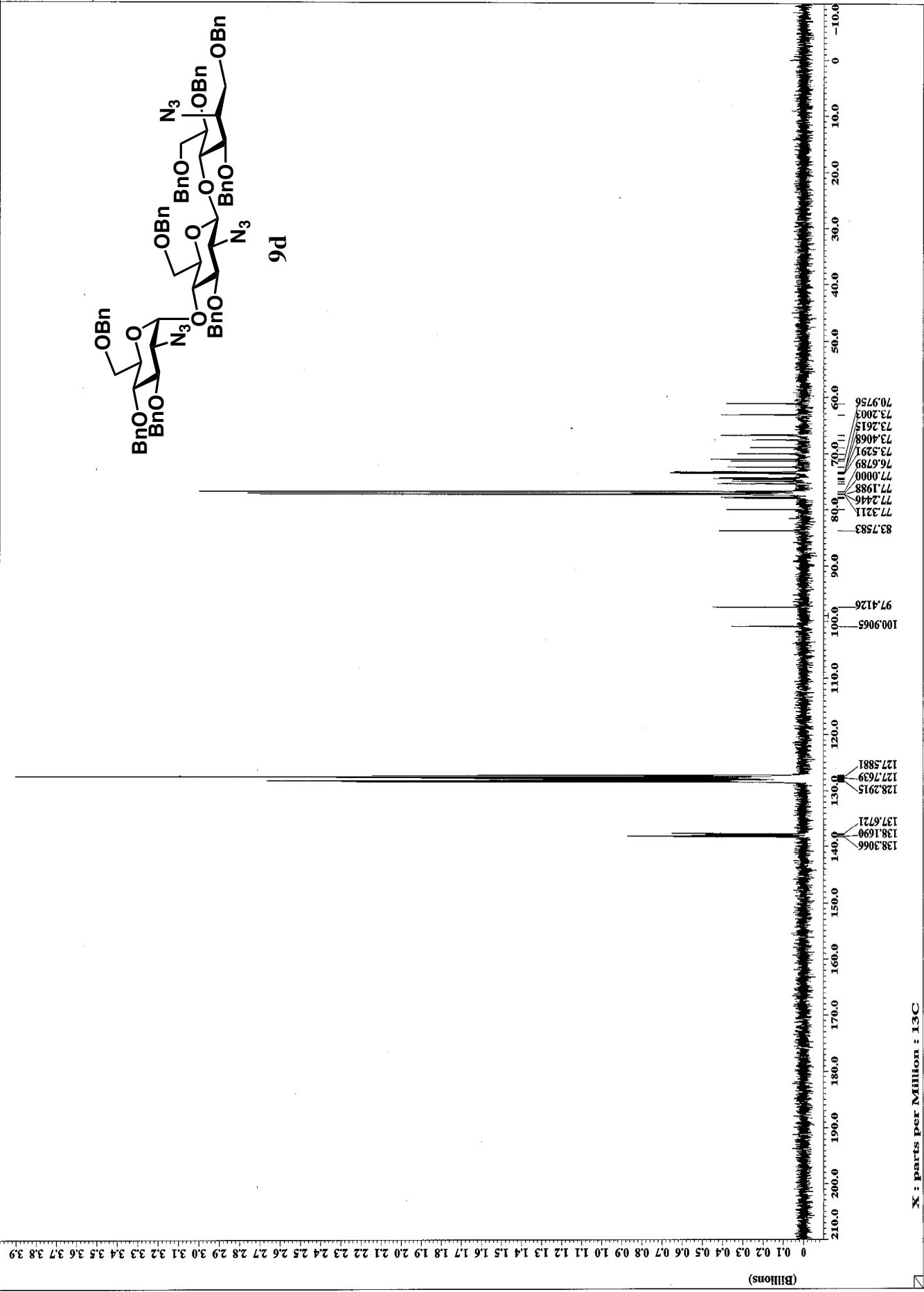
9c



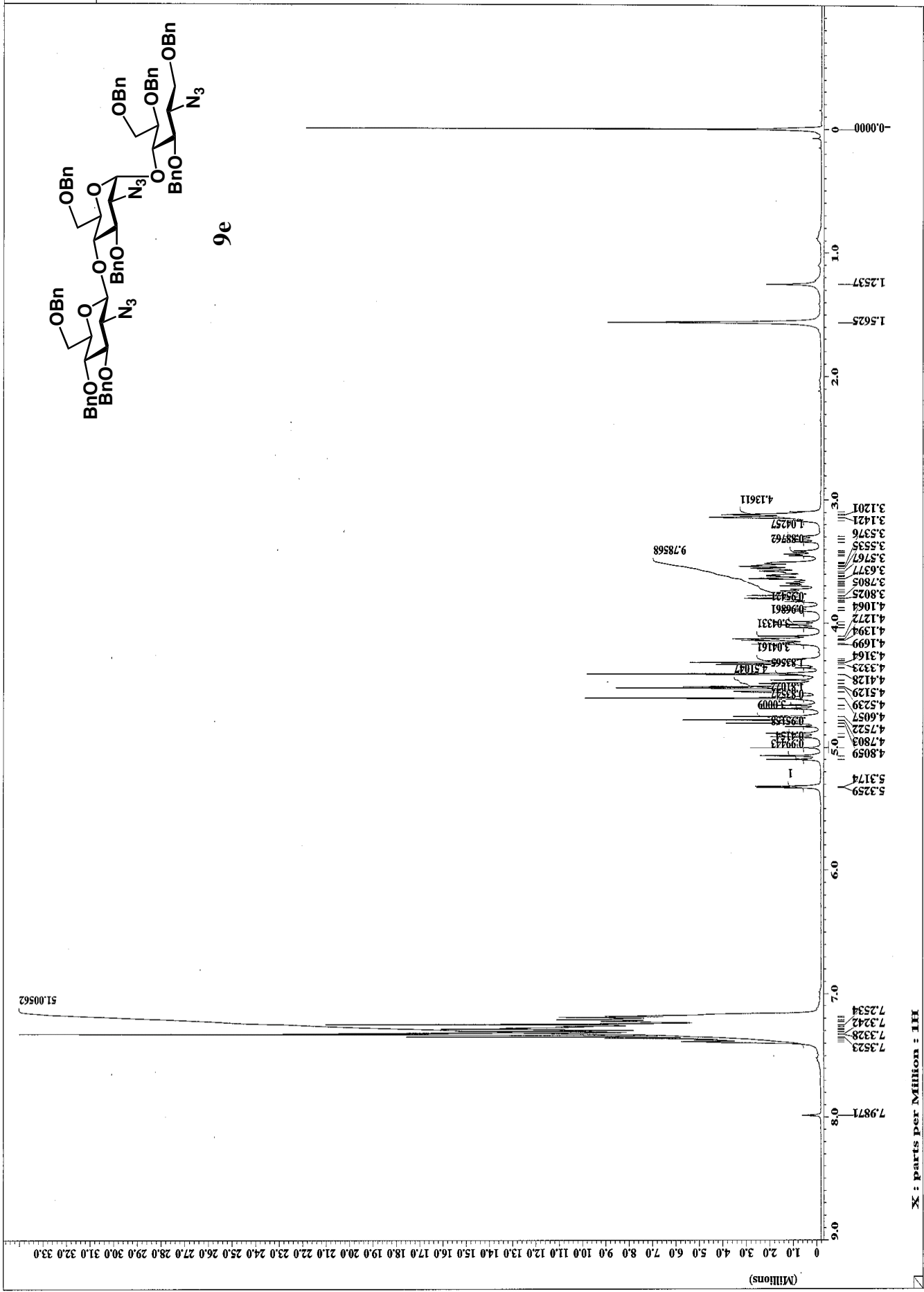
X : parts per Million : 13C

57.59904



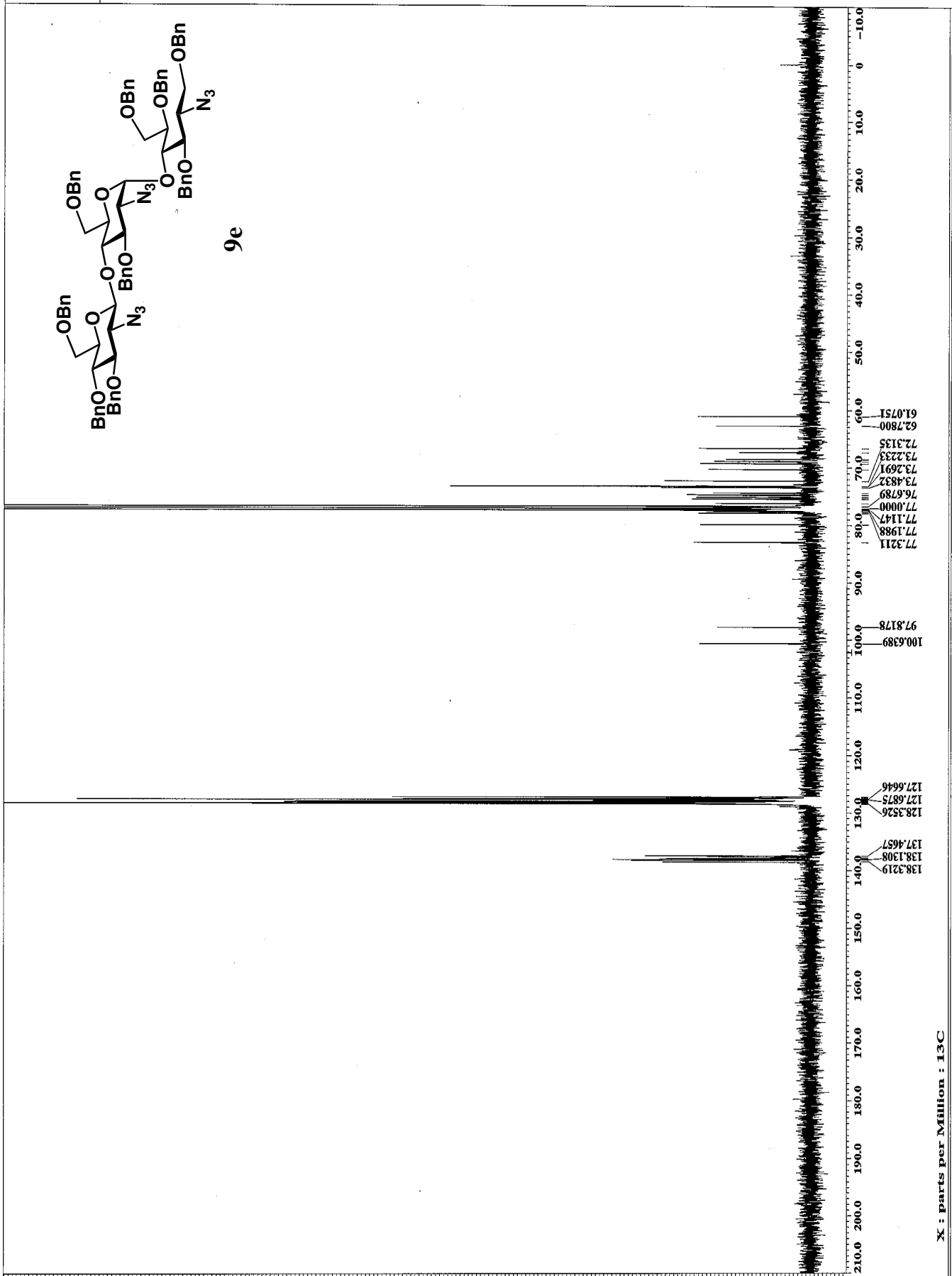


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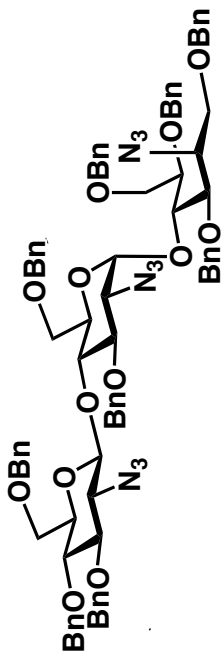
X : parts per Million : 1H

(Billions)

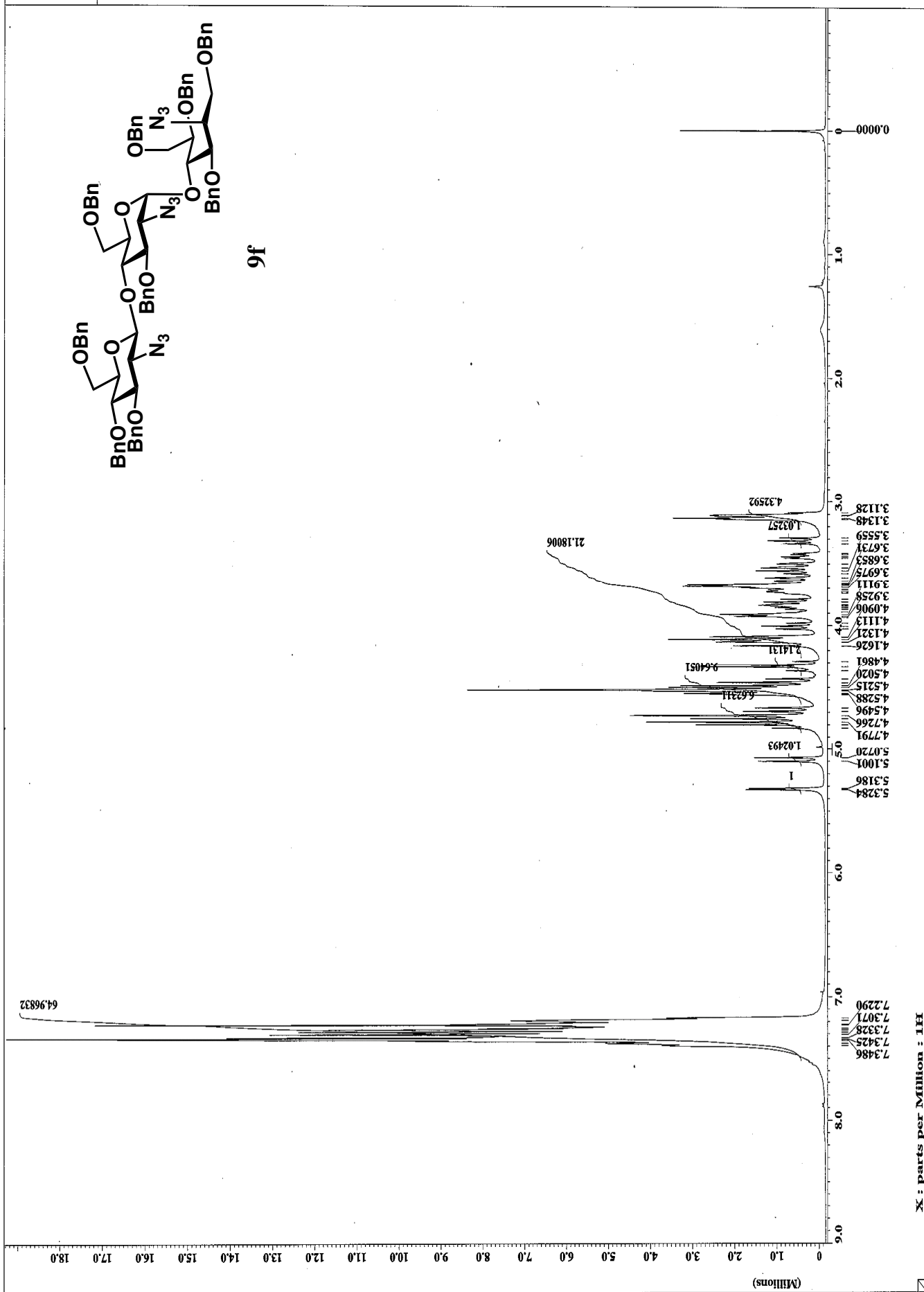


9e

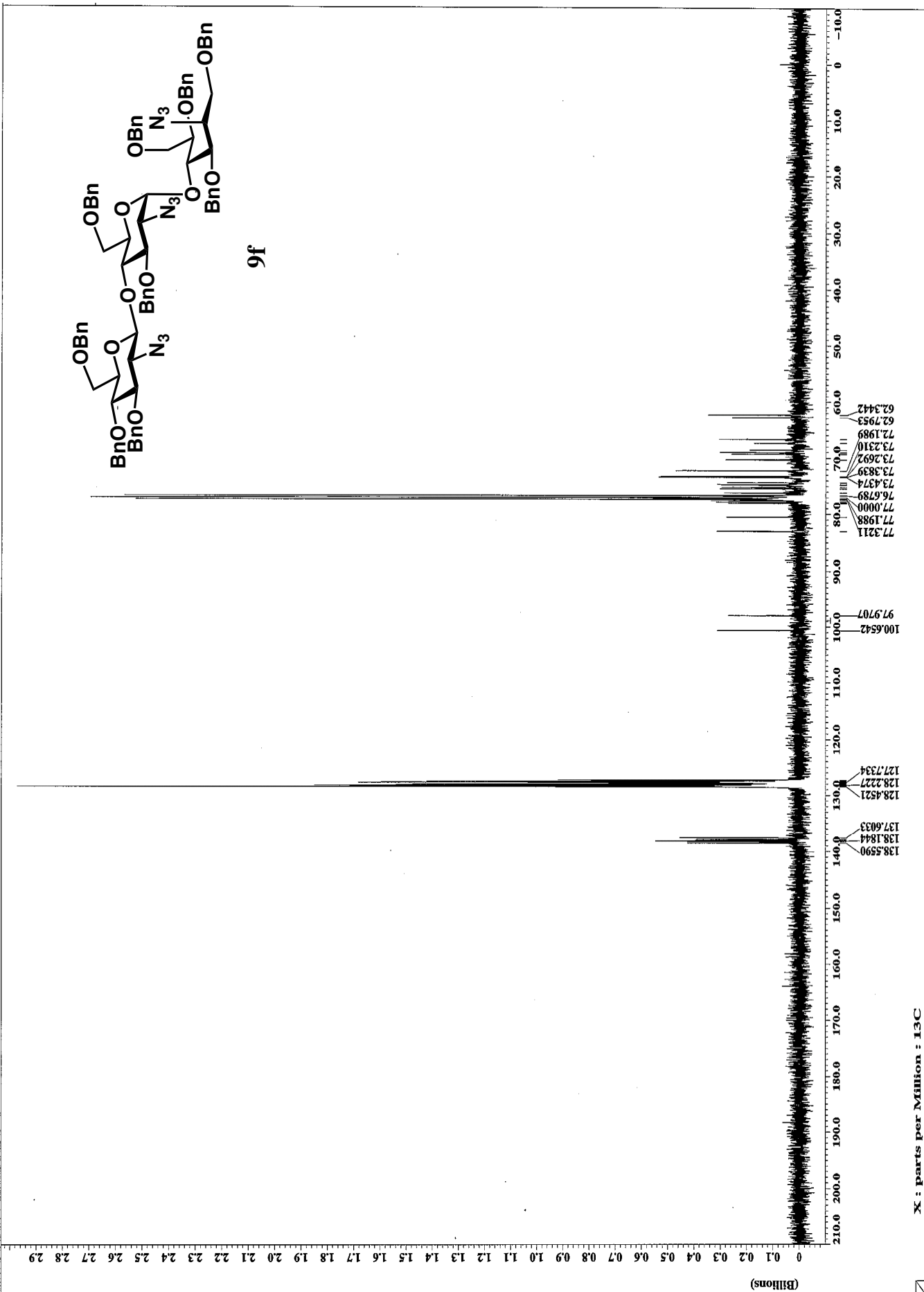
X : parts per Million : 13C



9f

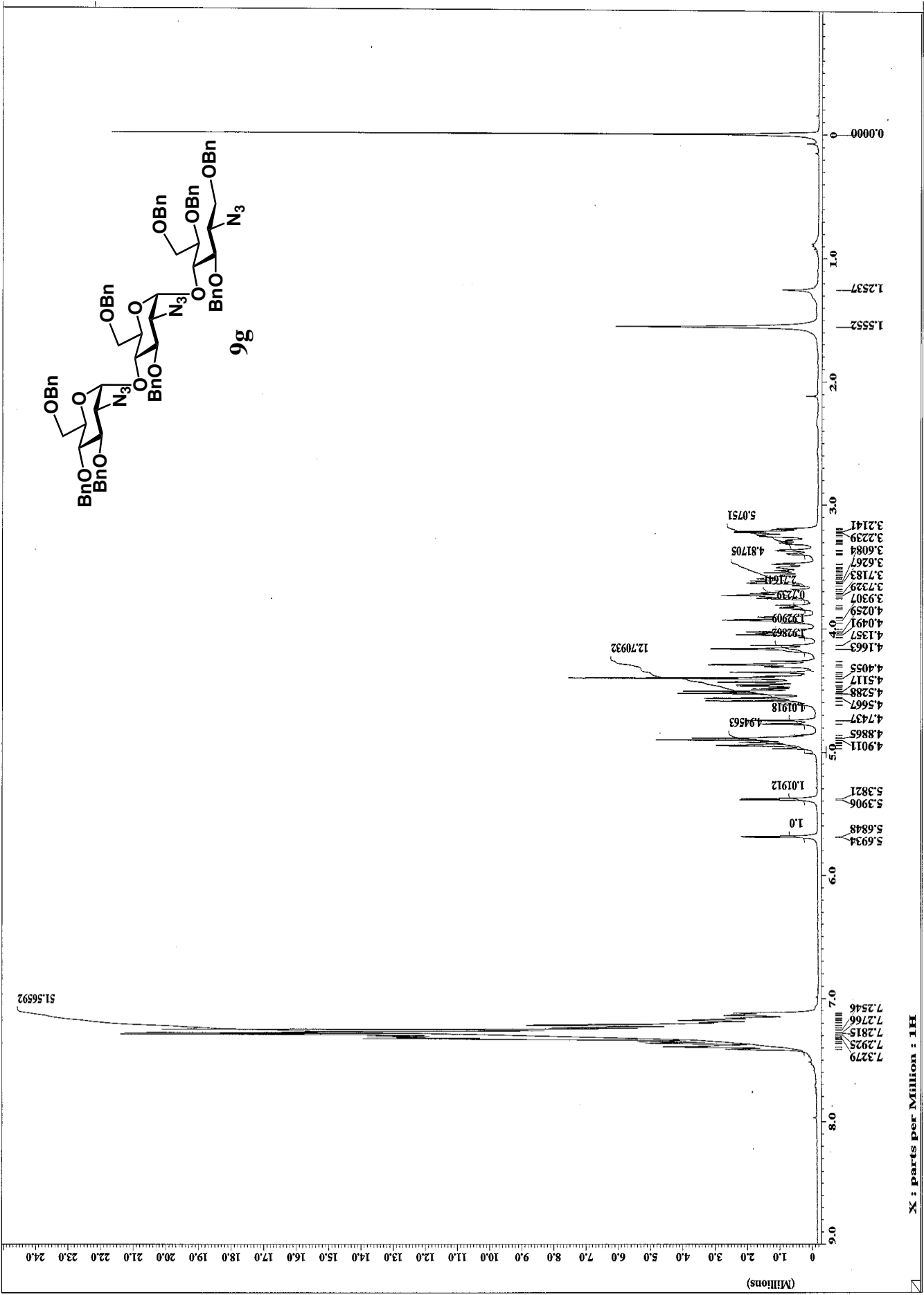


X : parts per Million : 1H

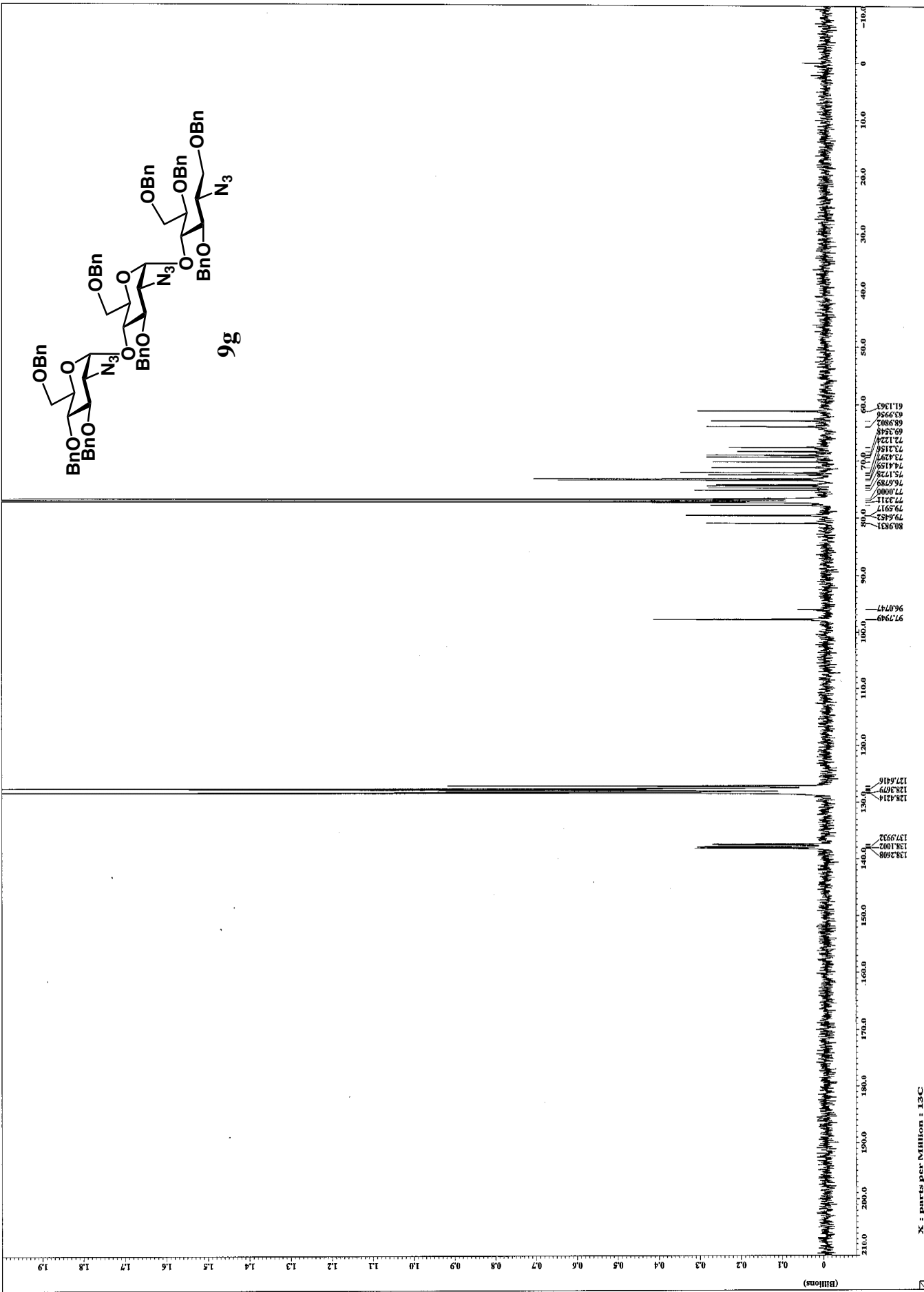


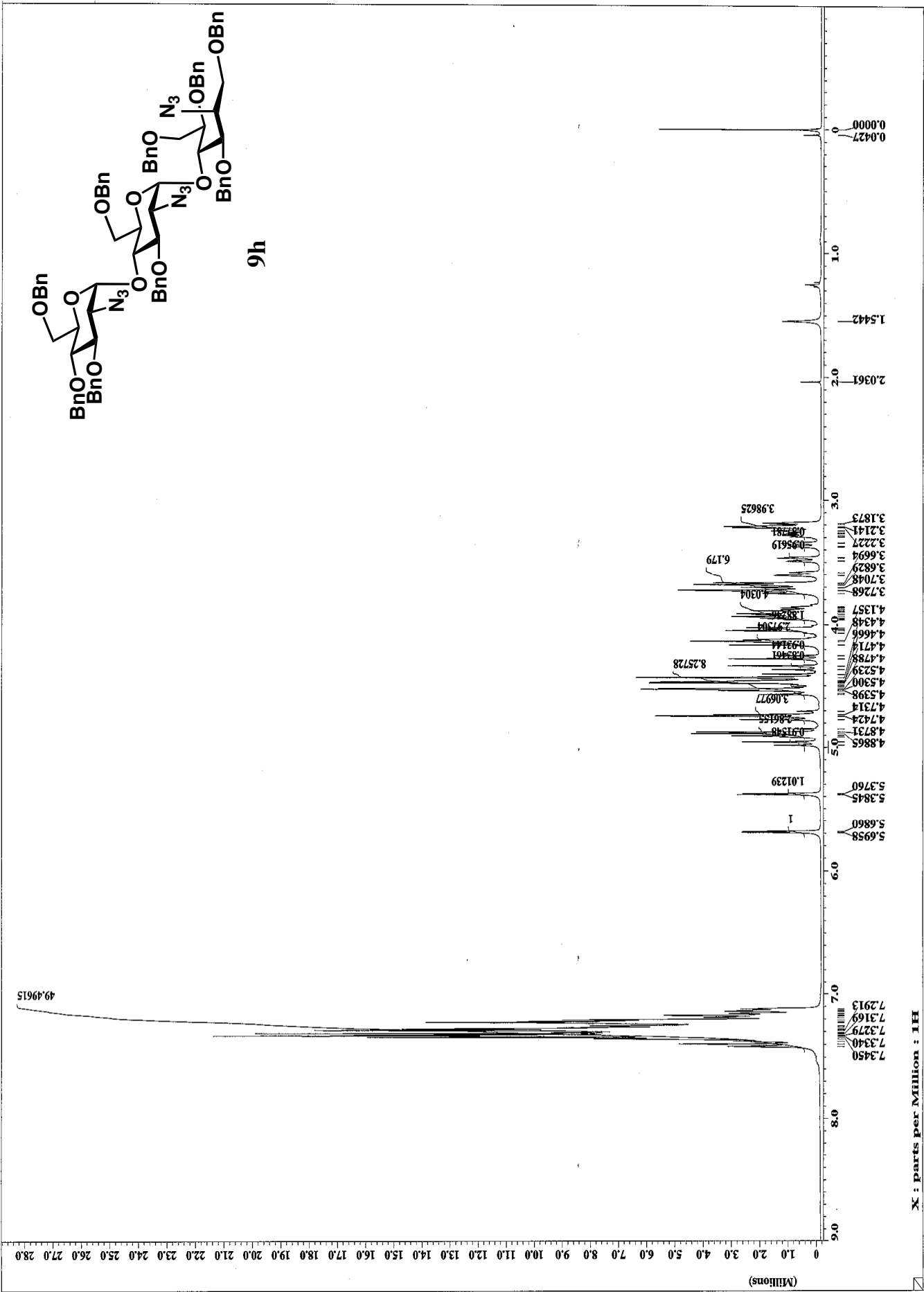
X : parts per Million : 13C

(Billions)

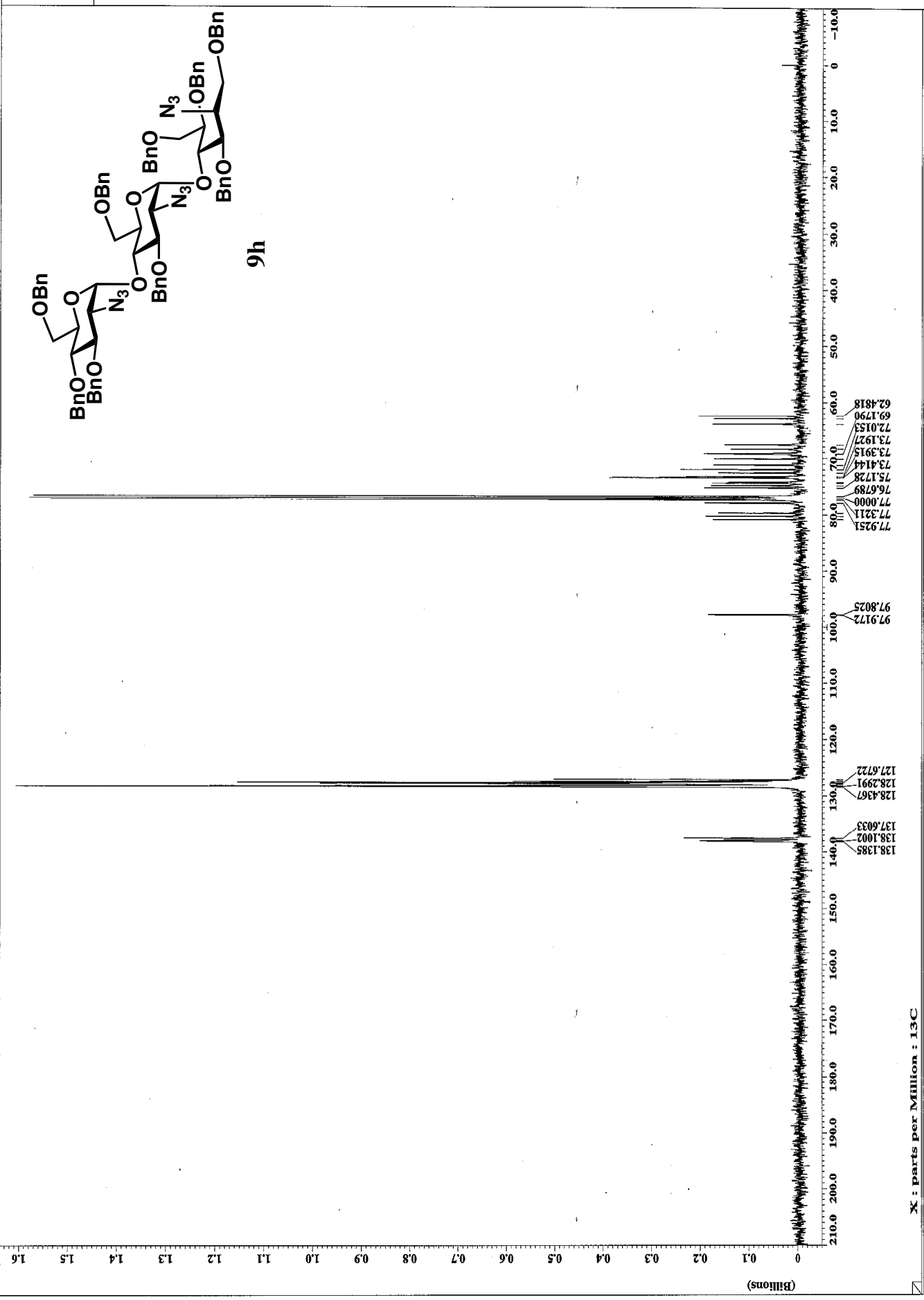


X : parts per Million : 15C

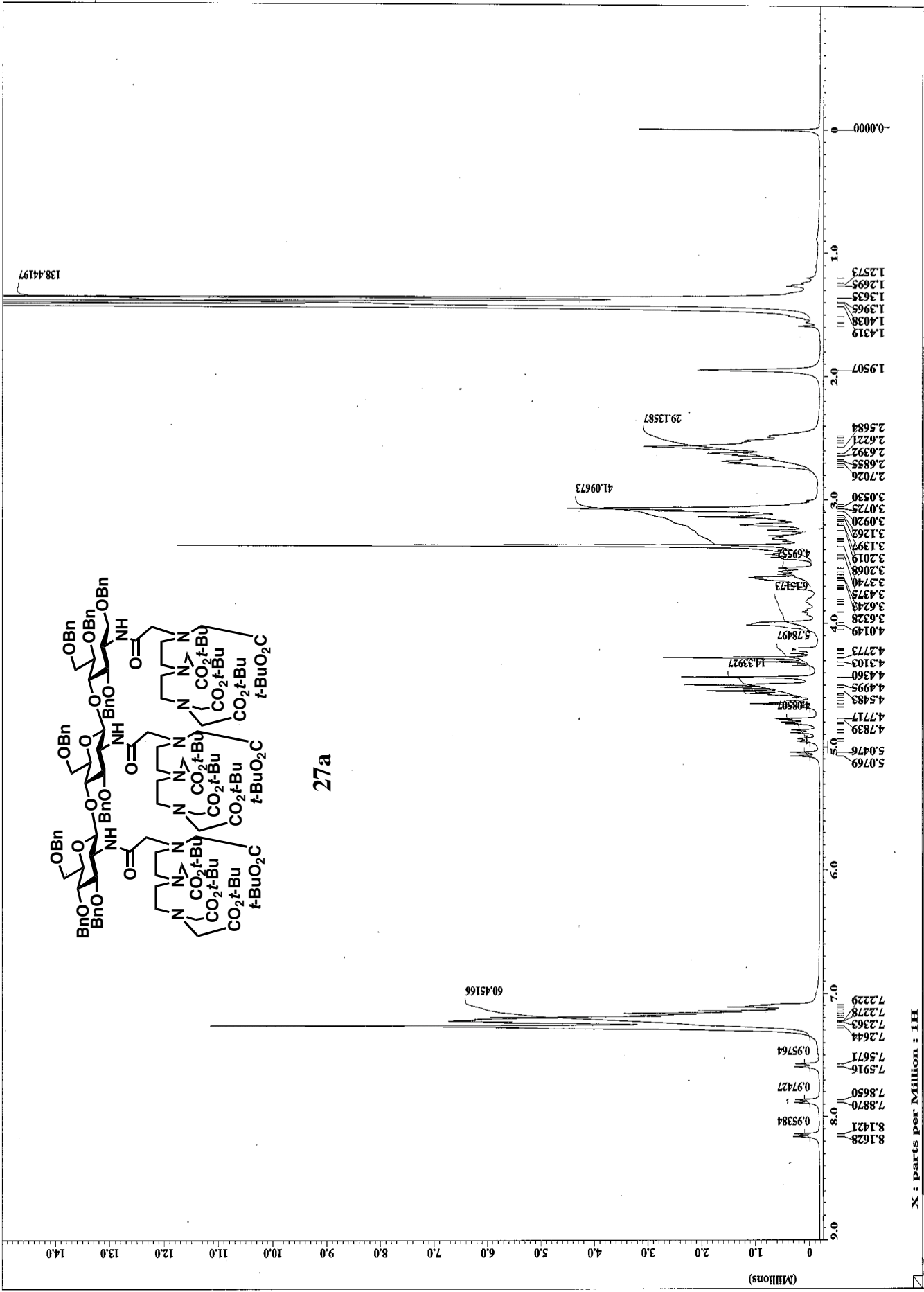




1H : parts per Million : 1H X



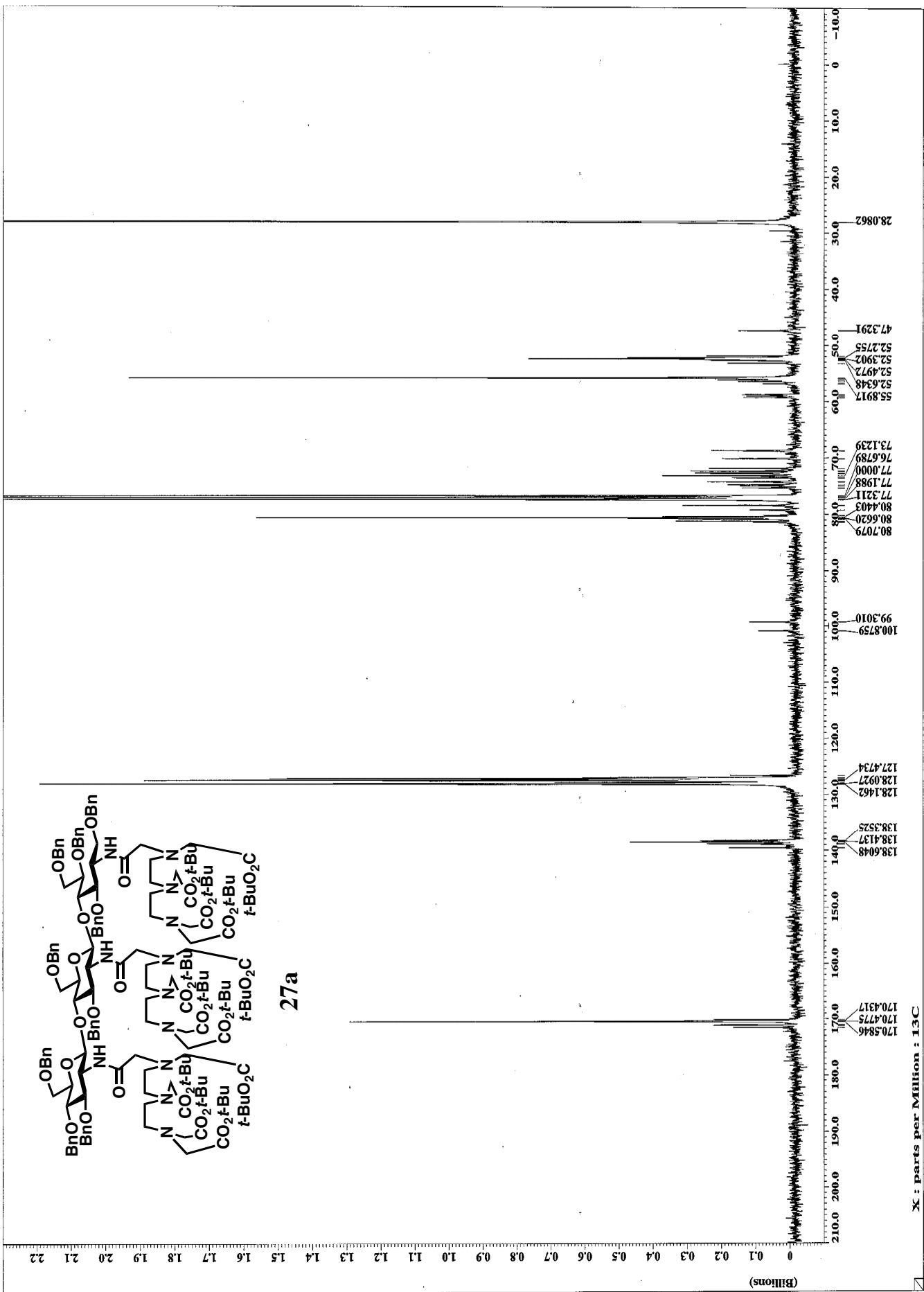
X : parts per Million : 13C

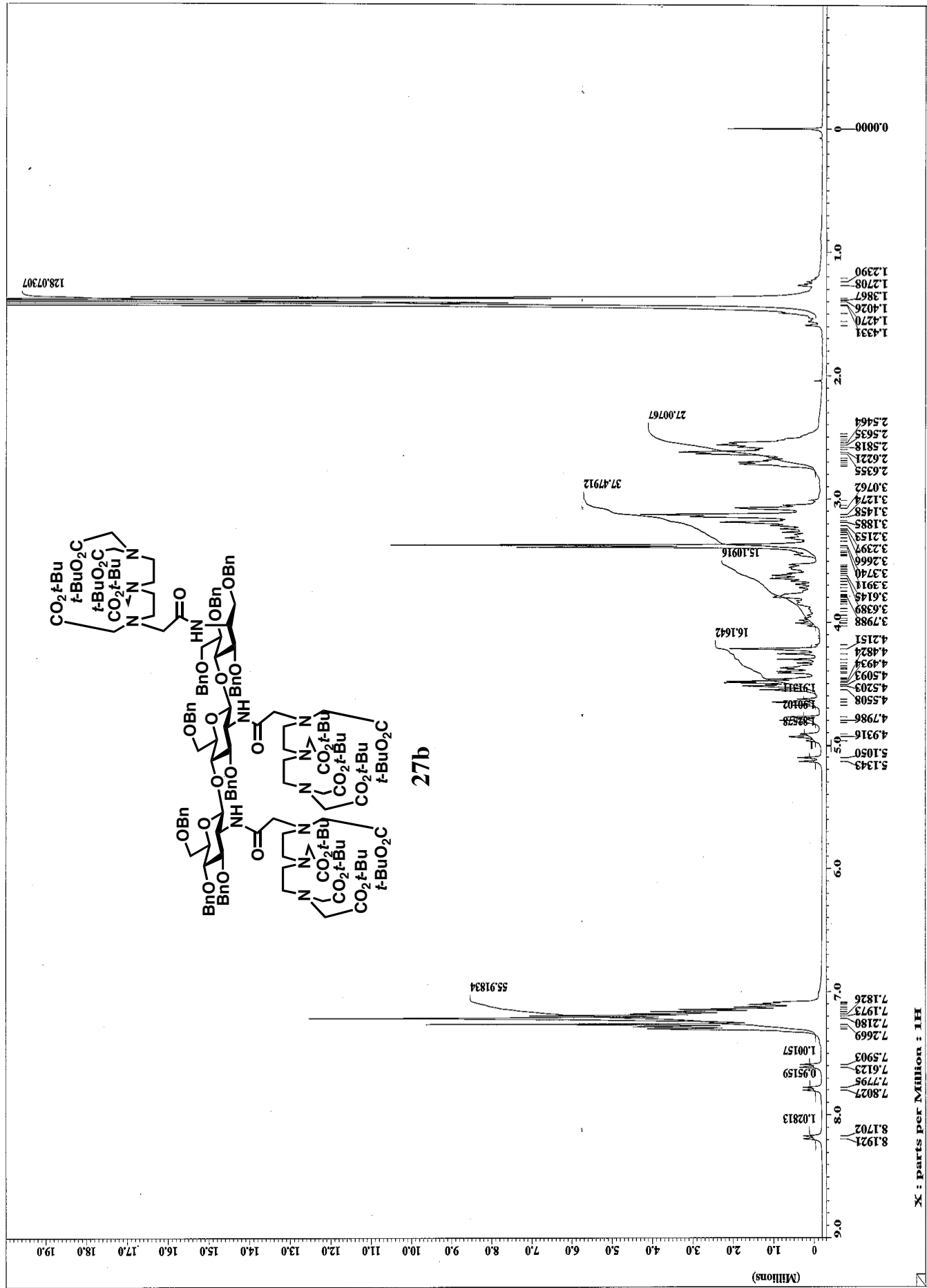


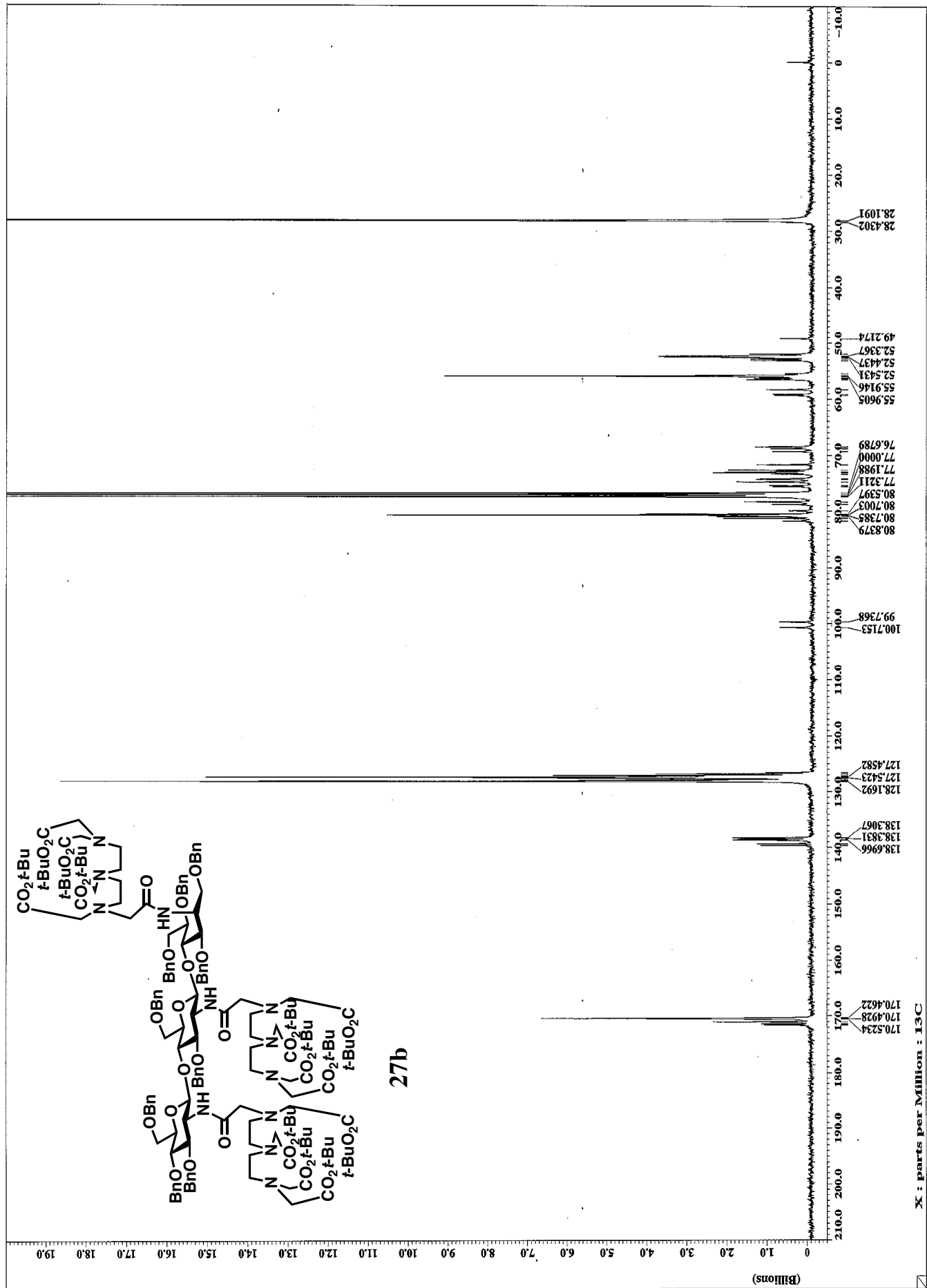
X : parts per Million : 1K

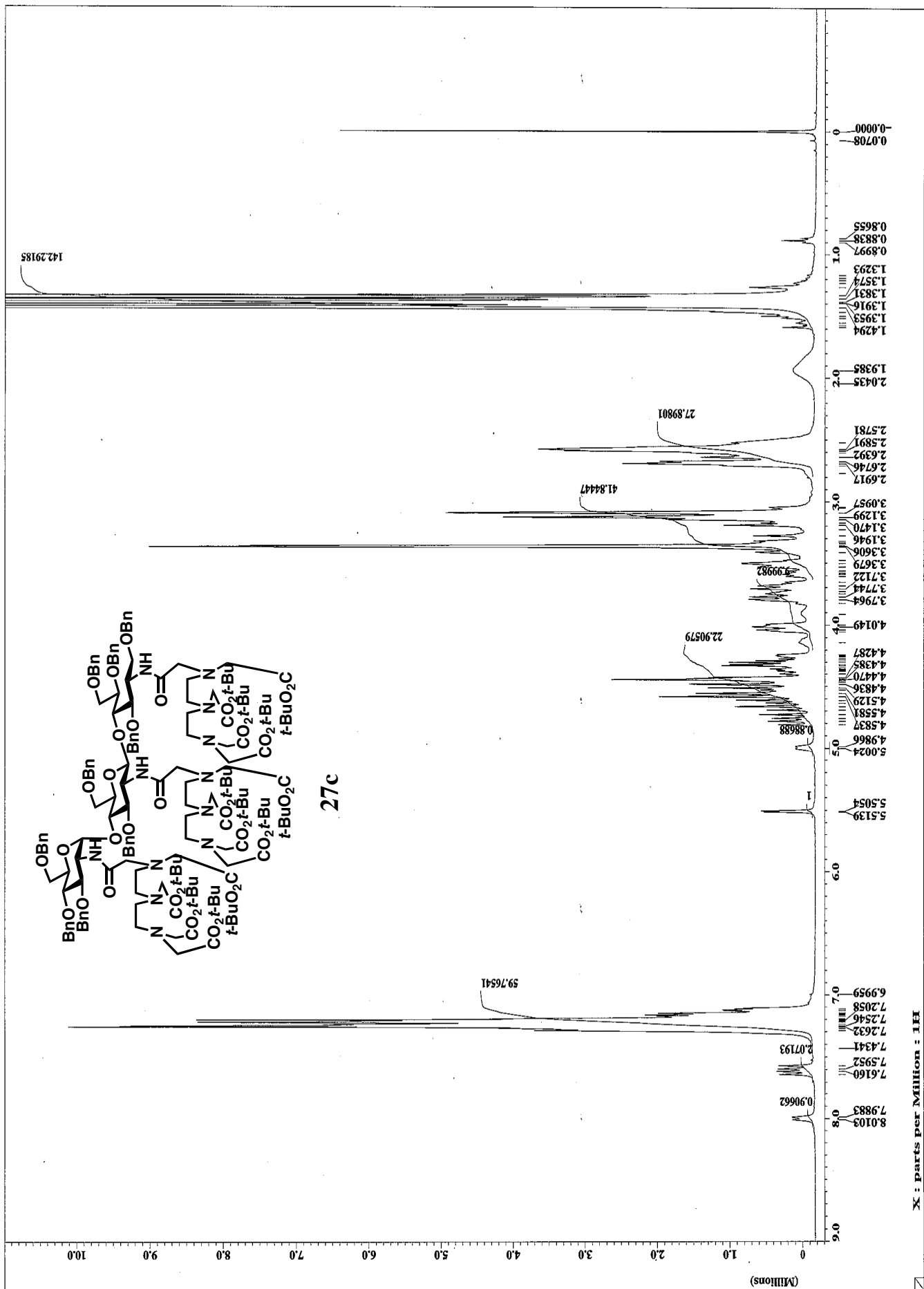
27a

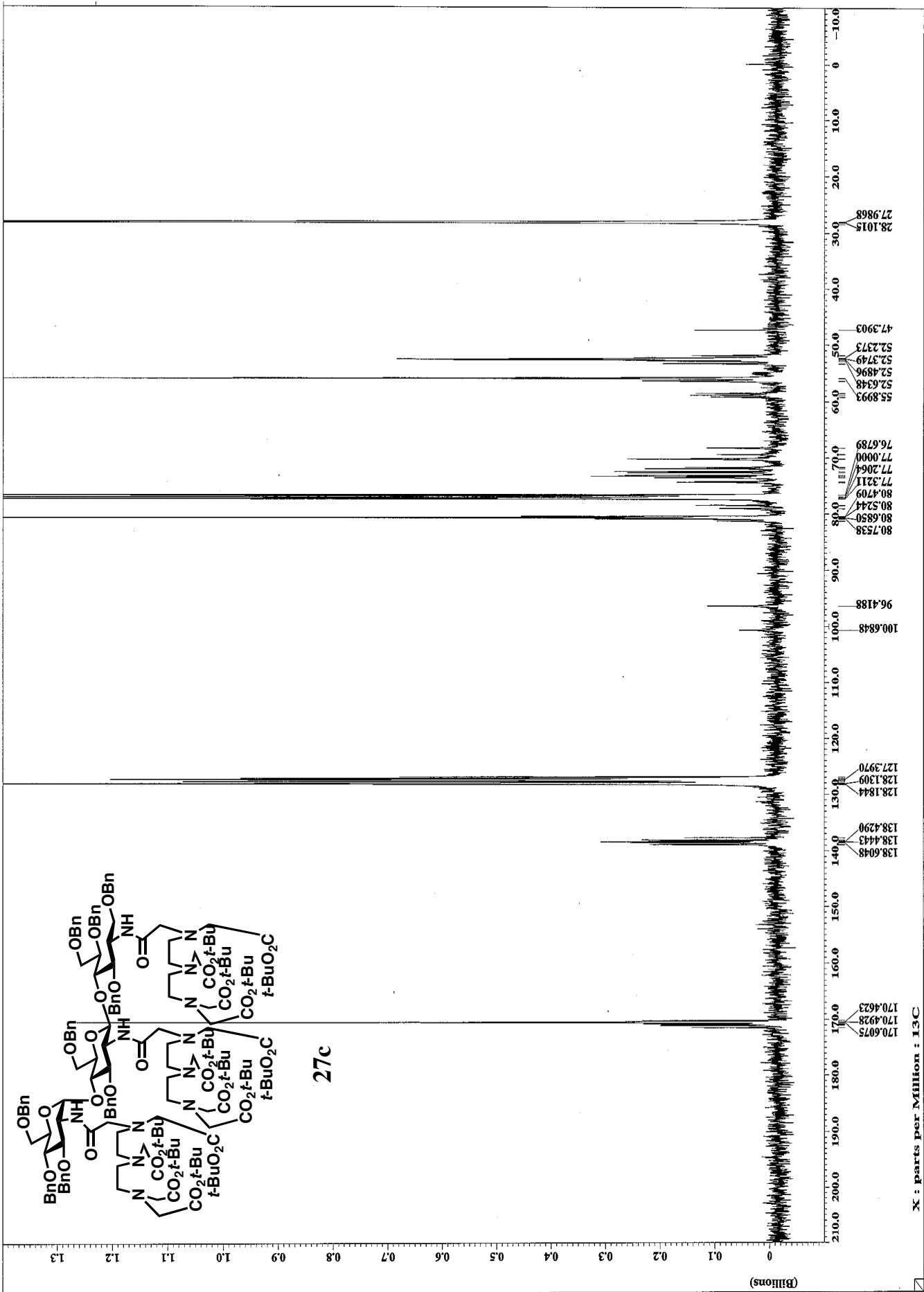
138.44197

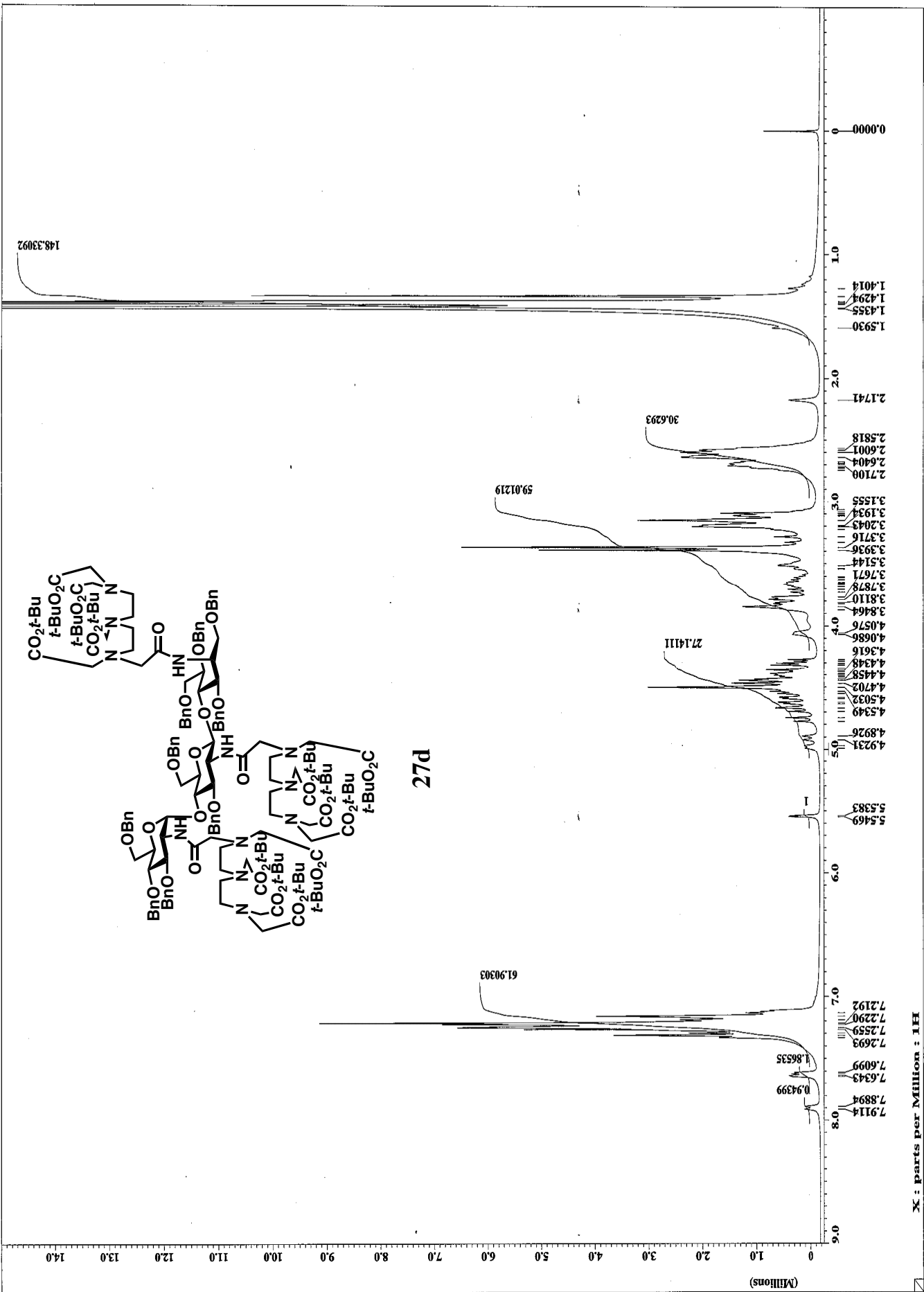




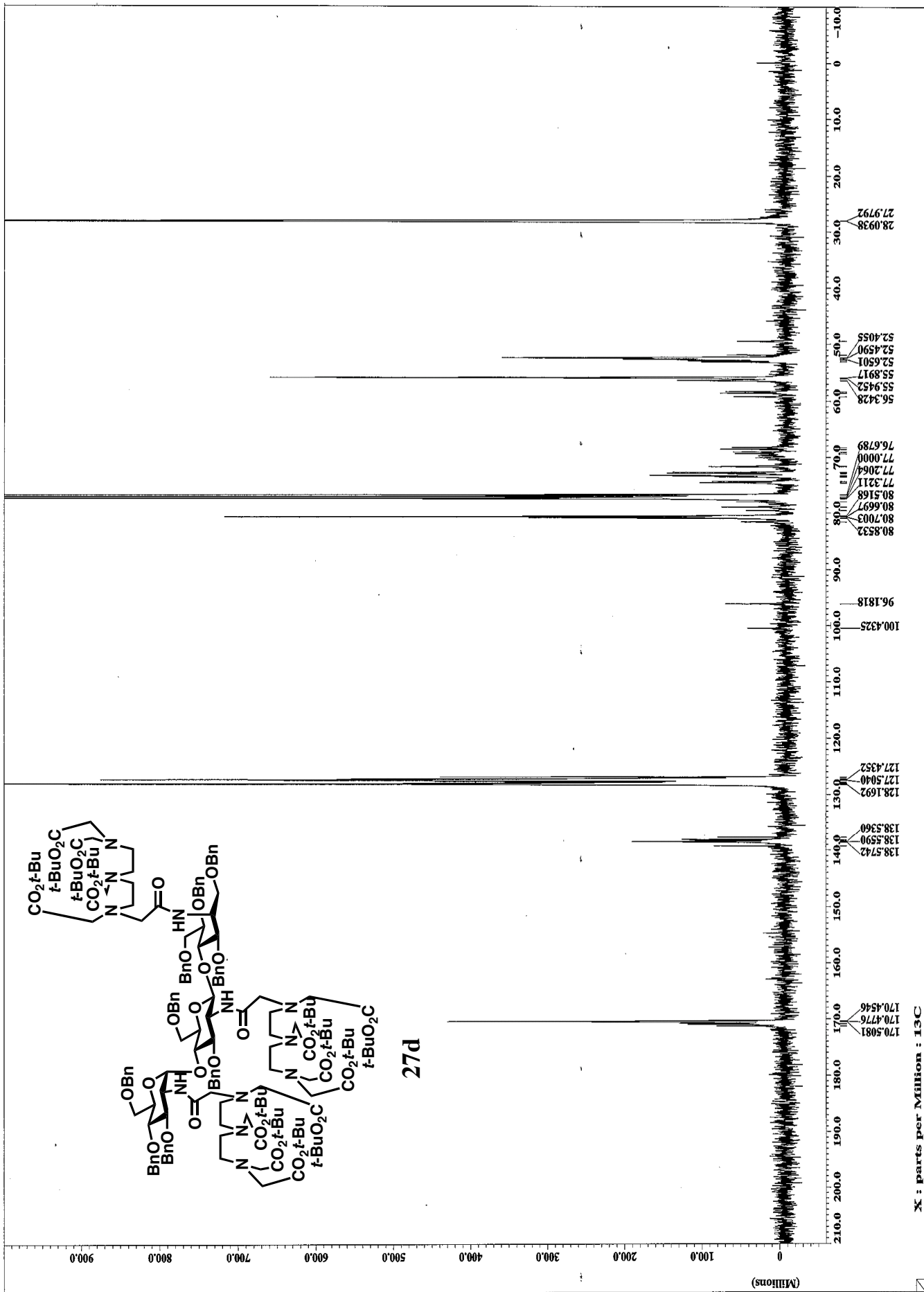


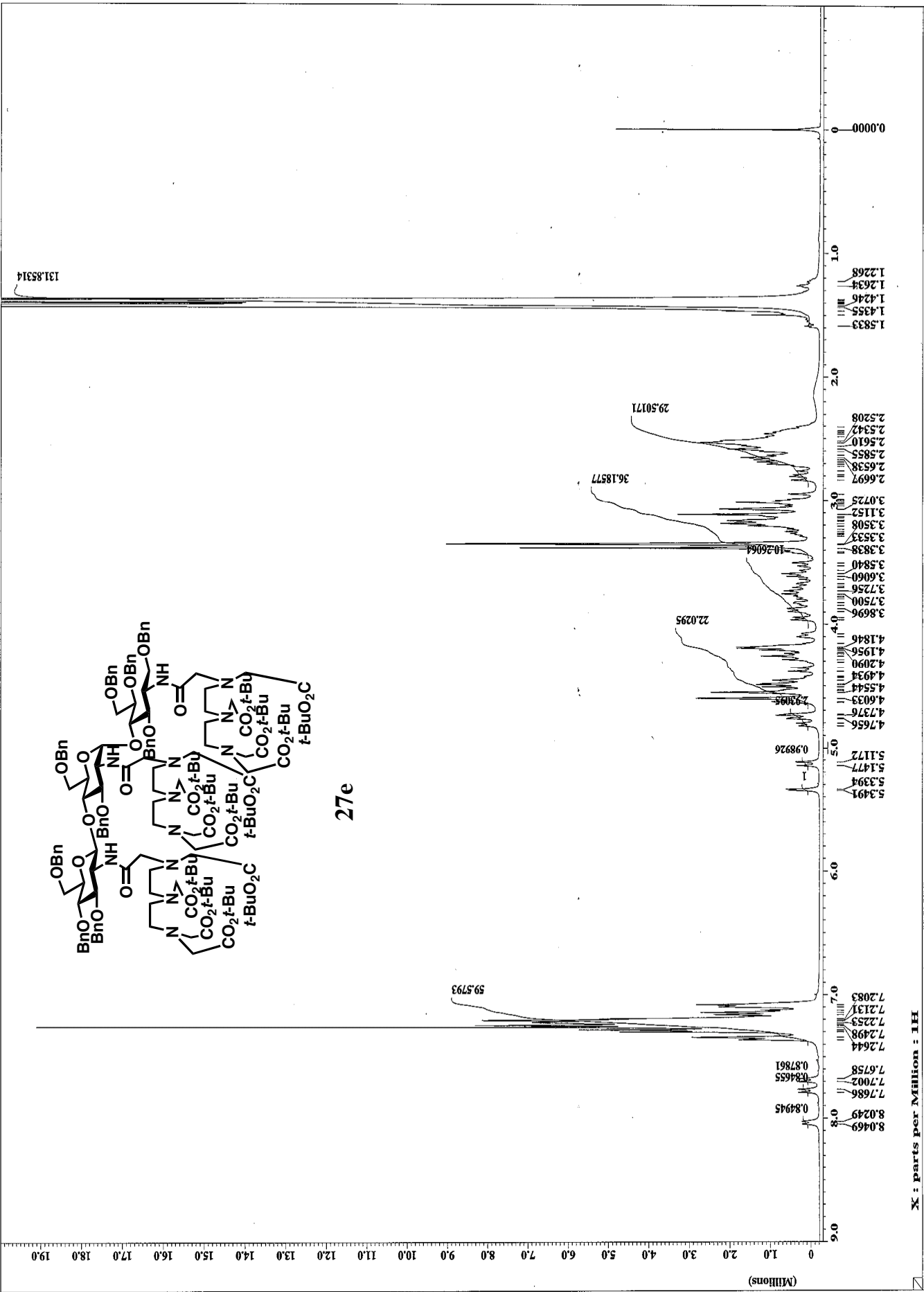




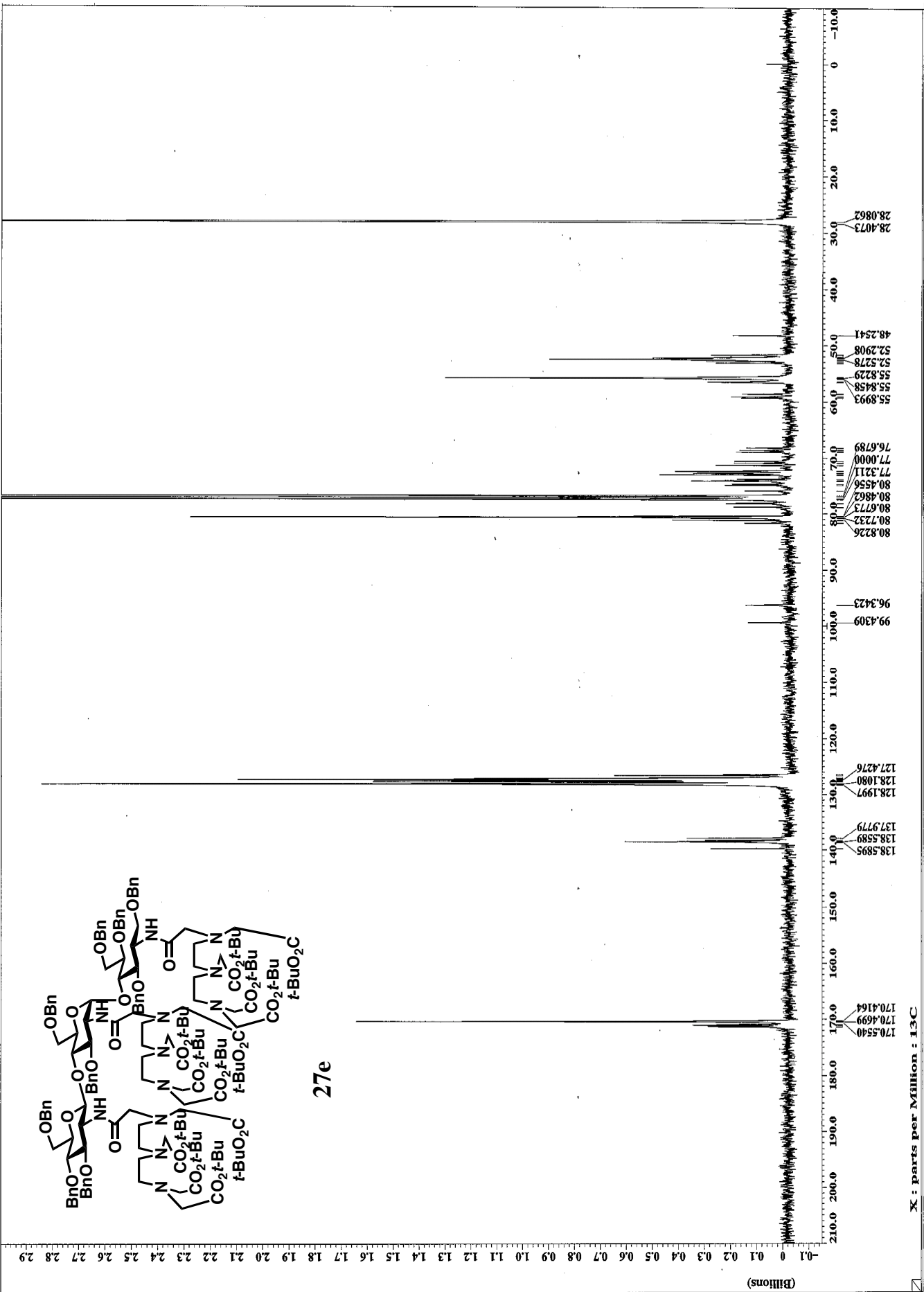


X : parts per Million : 1H



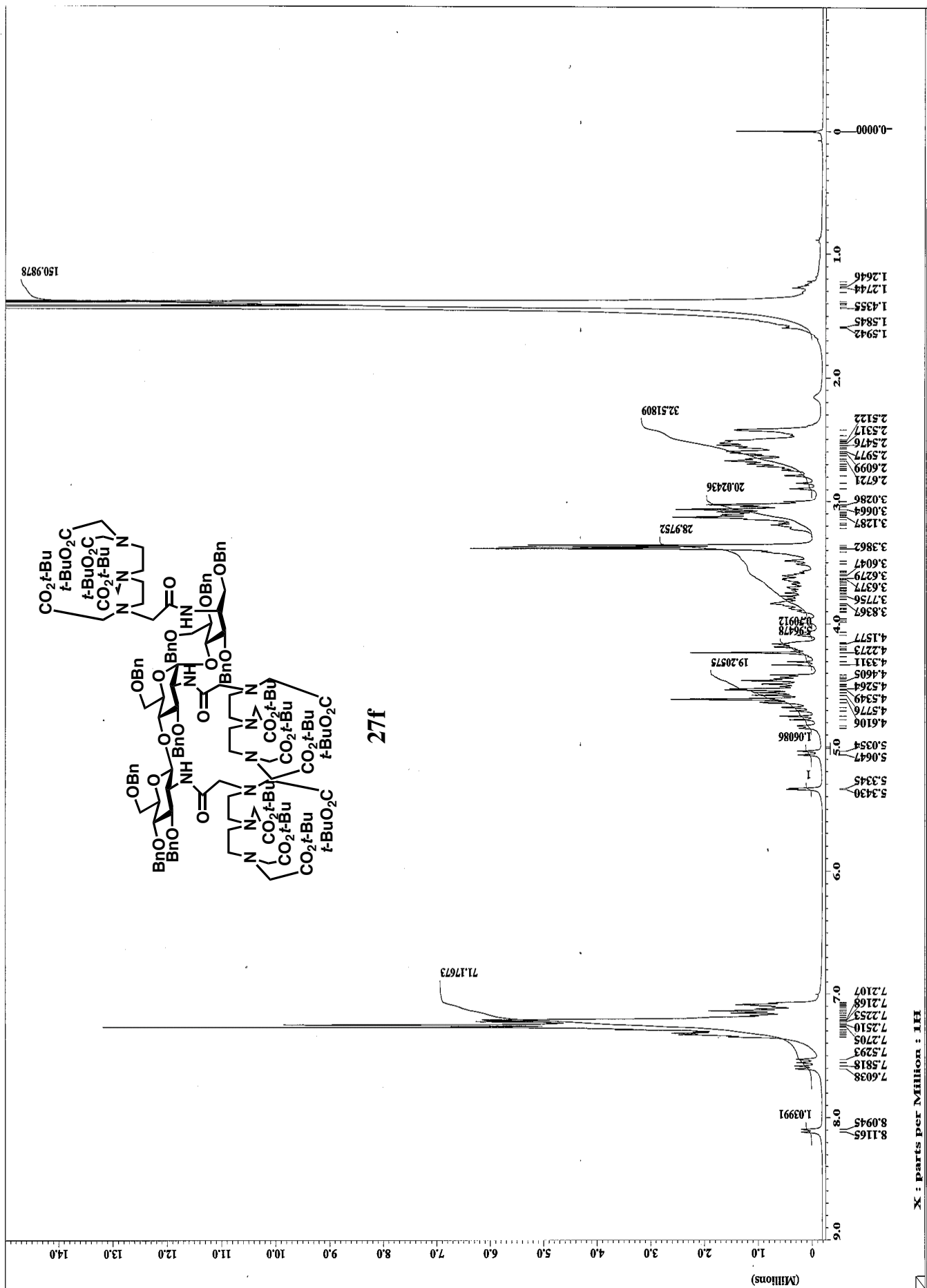


131.85314

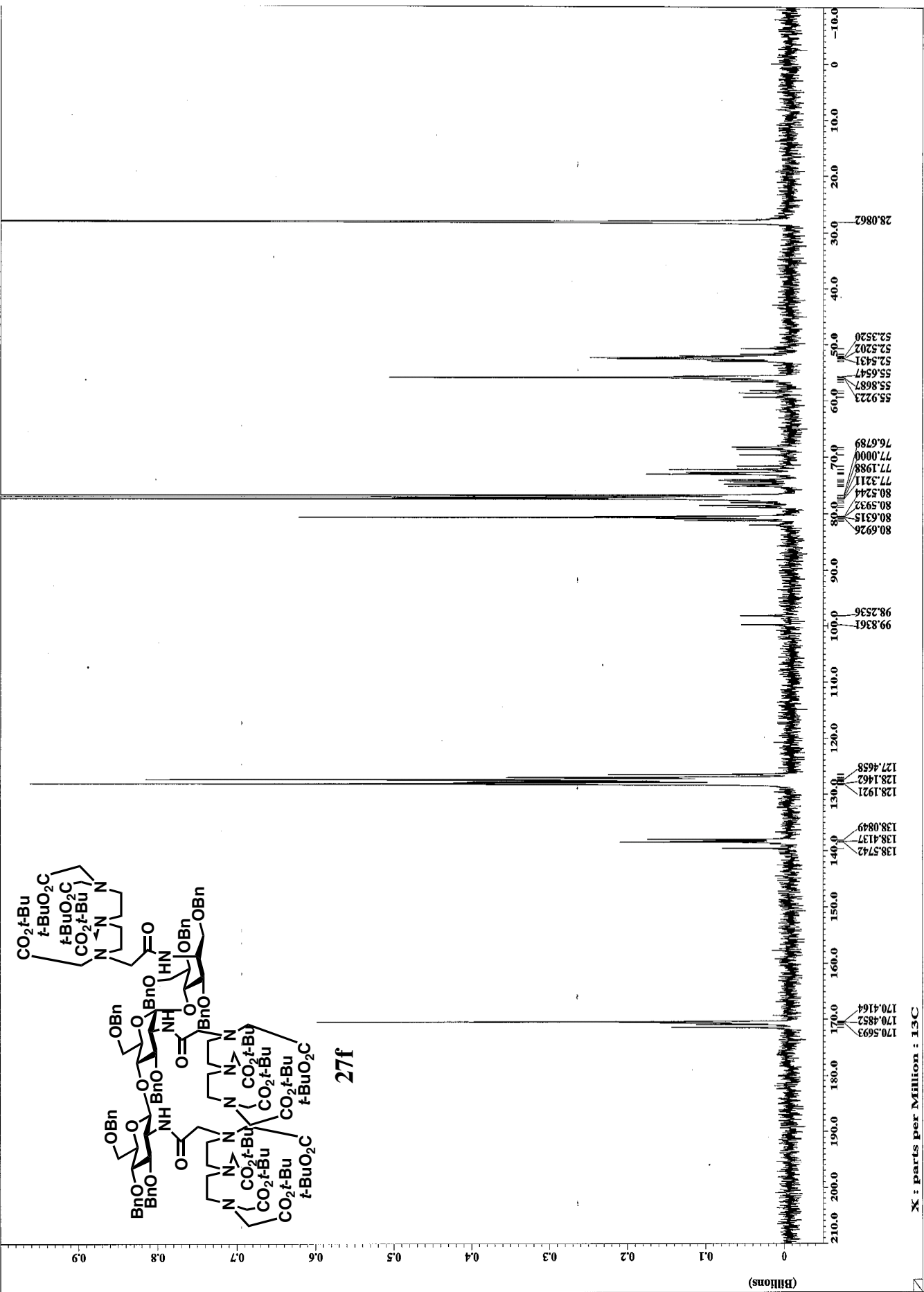


X : parts per Million : 13C

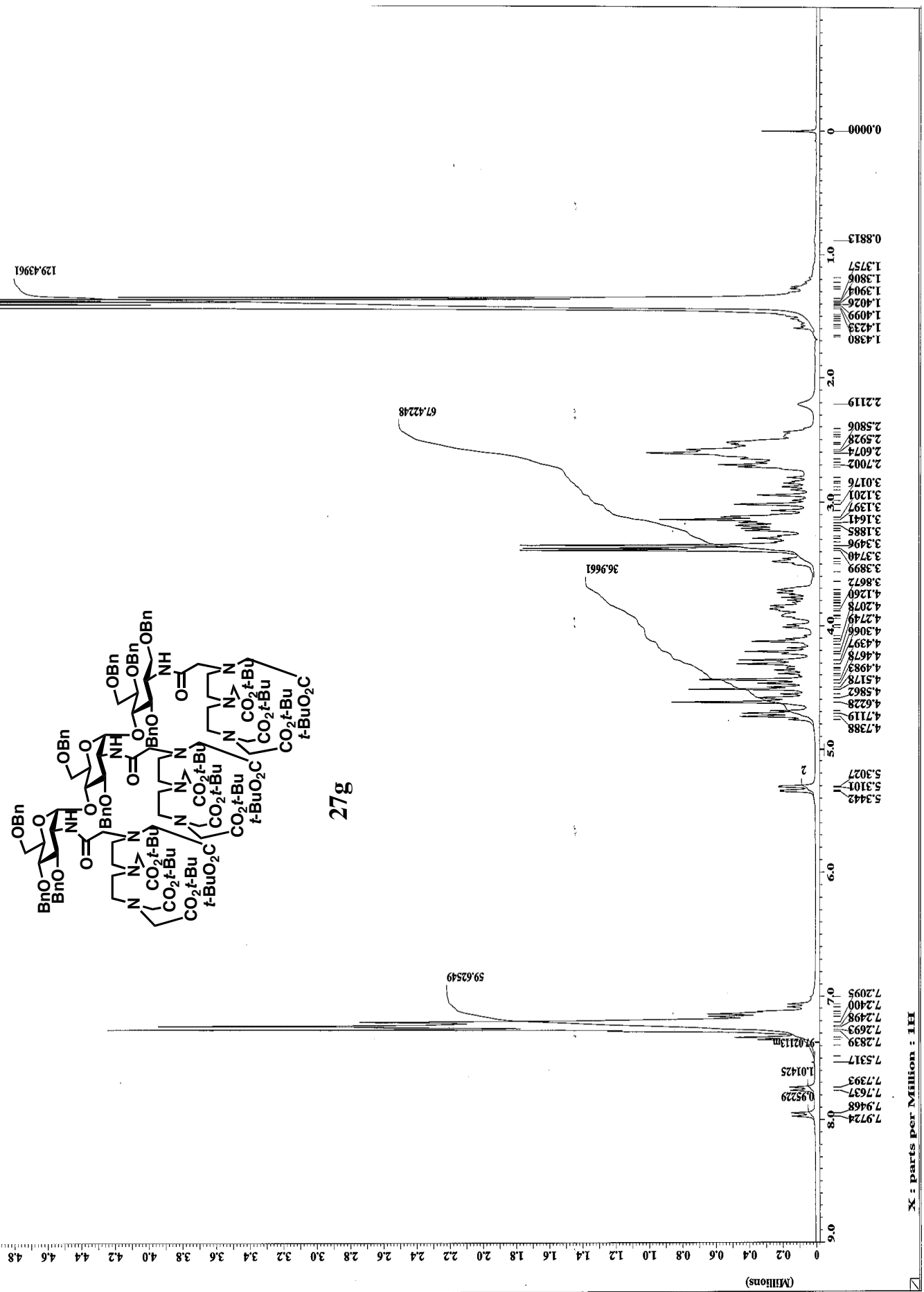
27e



X : parts per Million : 1H



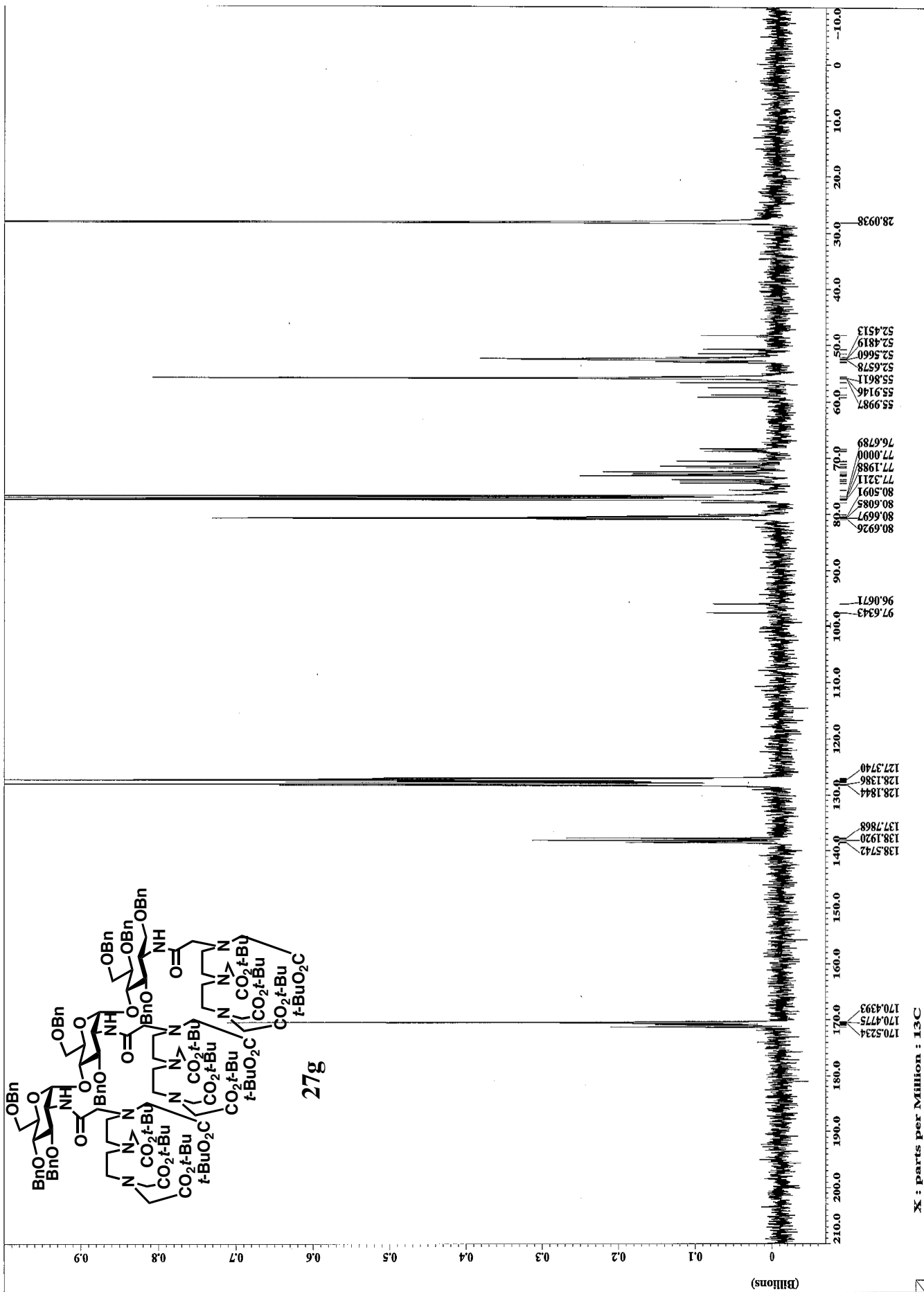
X : parts per Million : 13C



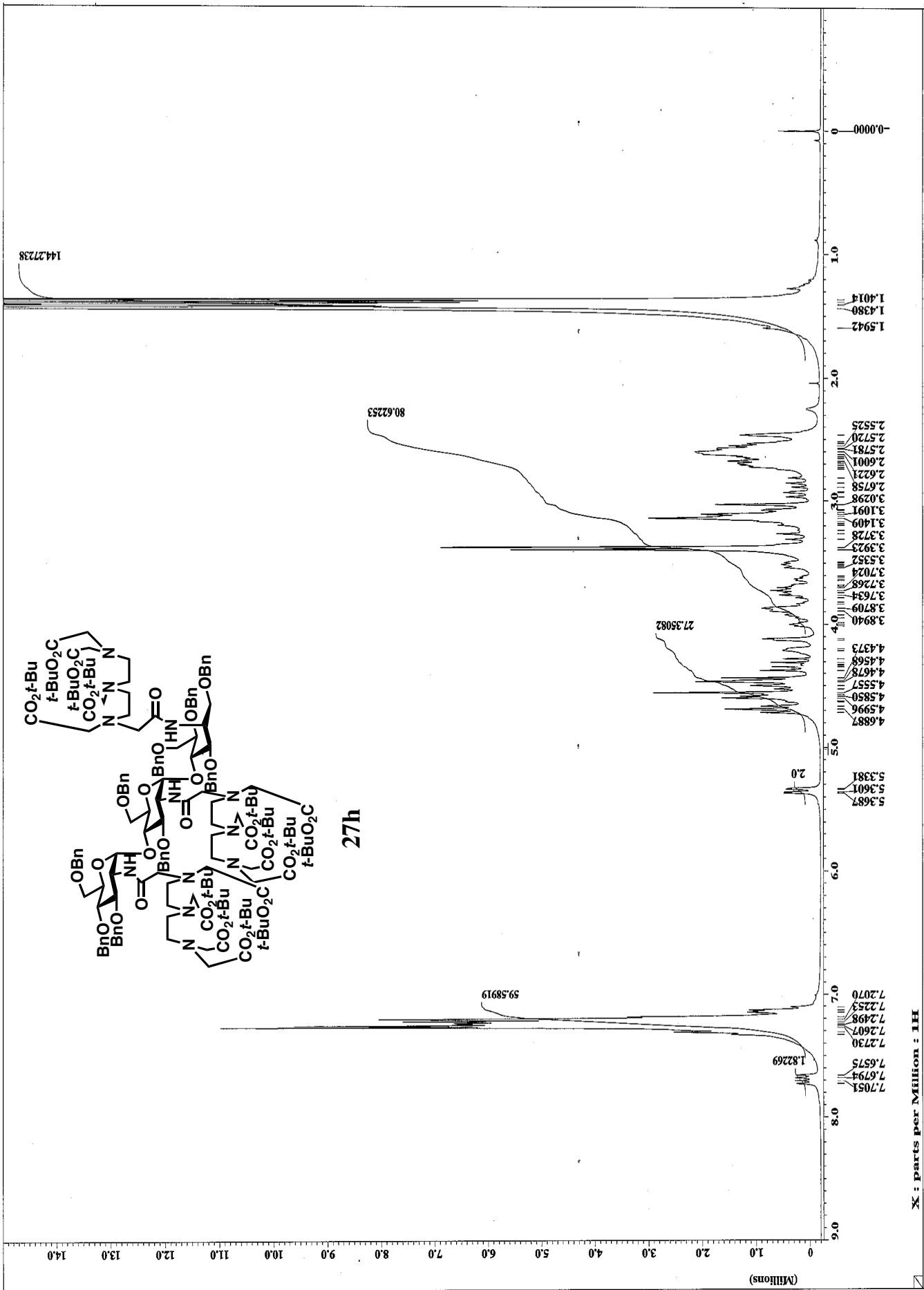
27g

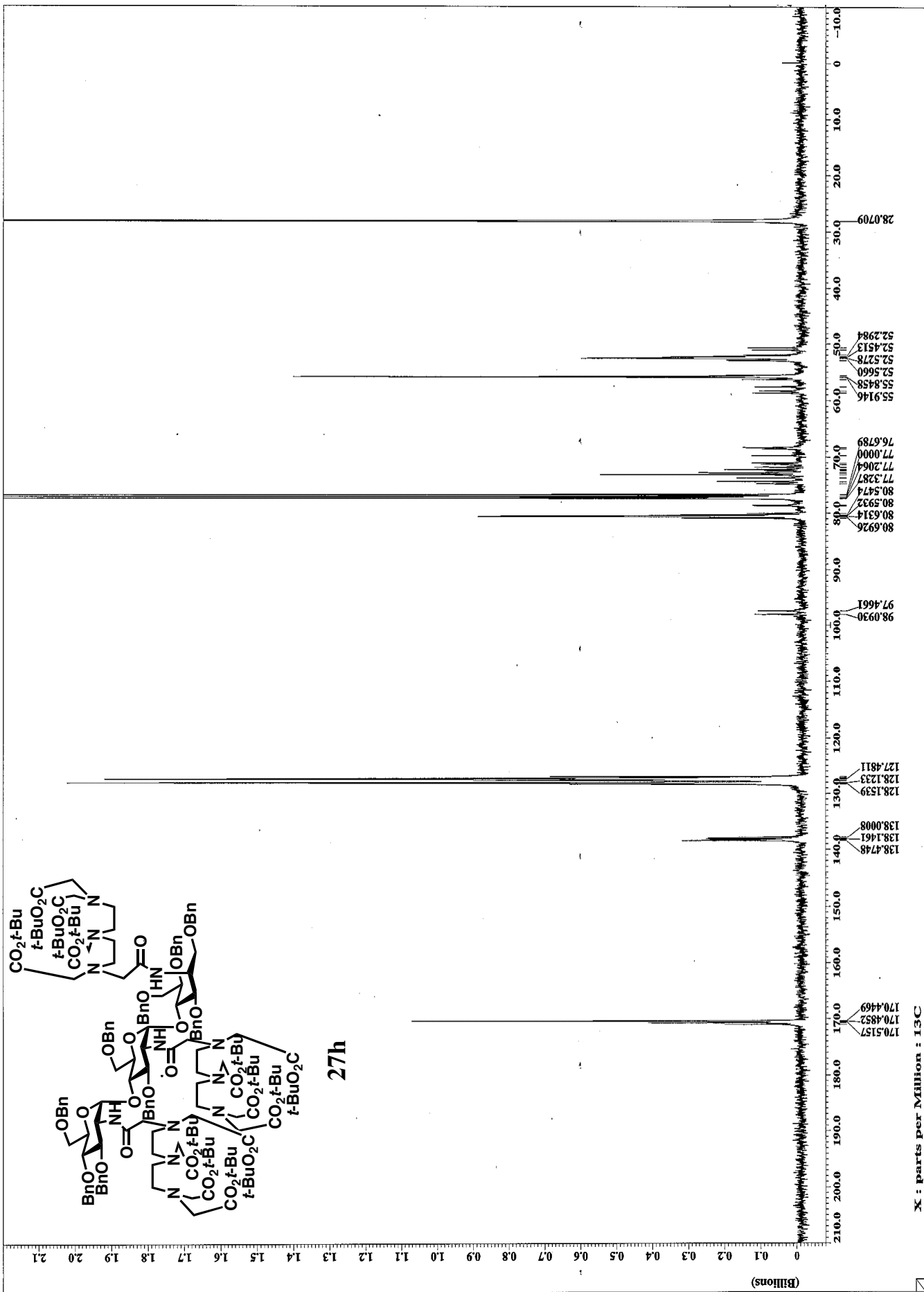
X : parts per Million : 1H

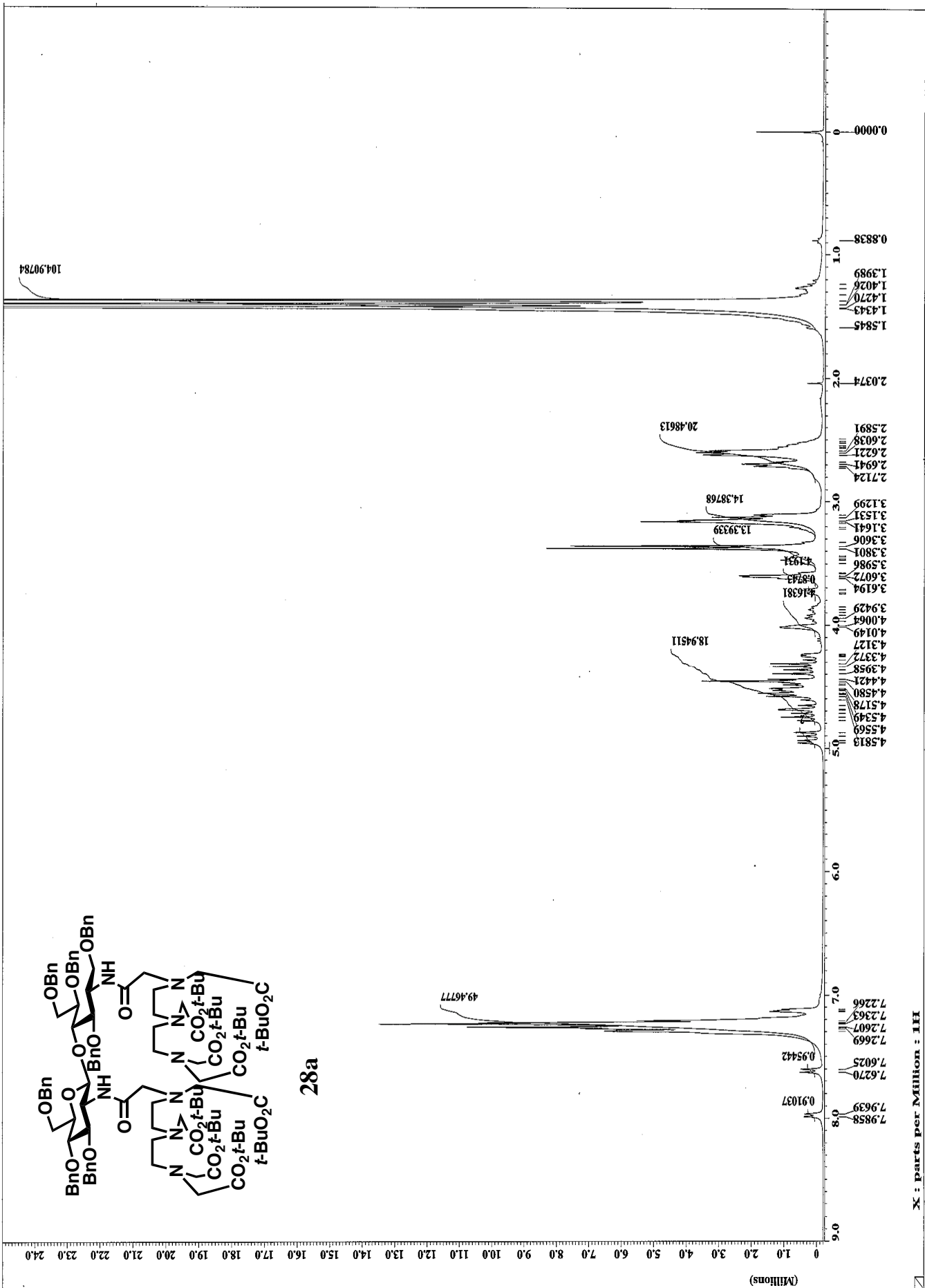
(Millions)



X : parts per Million : 13C





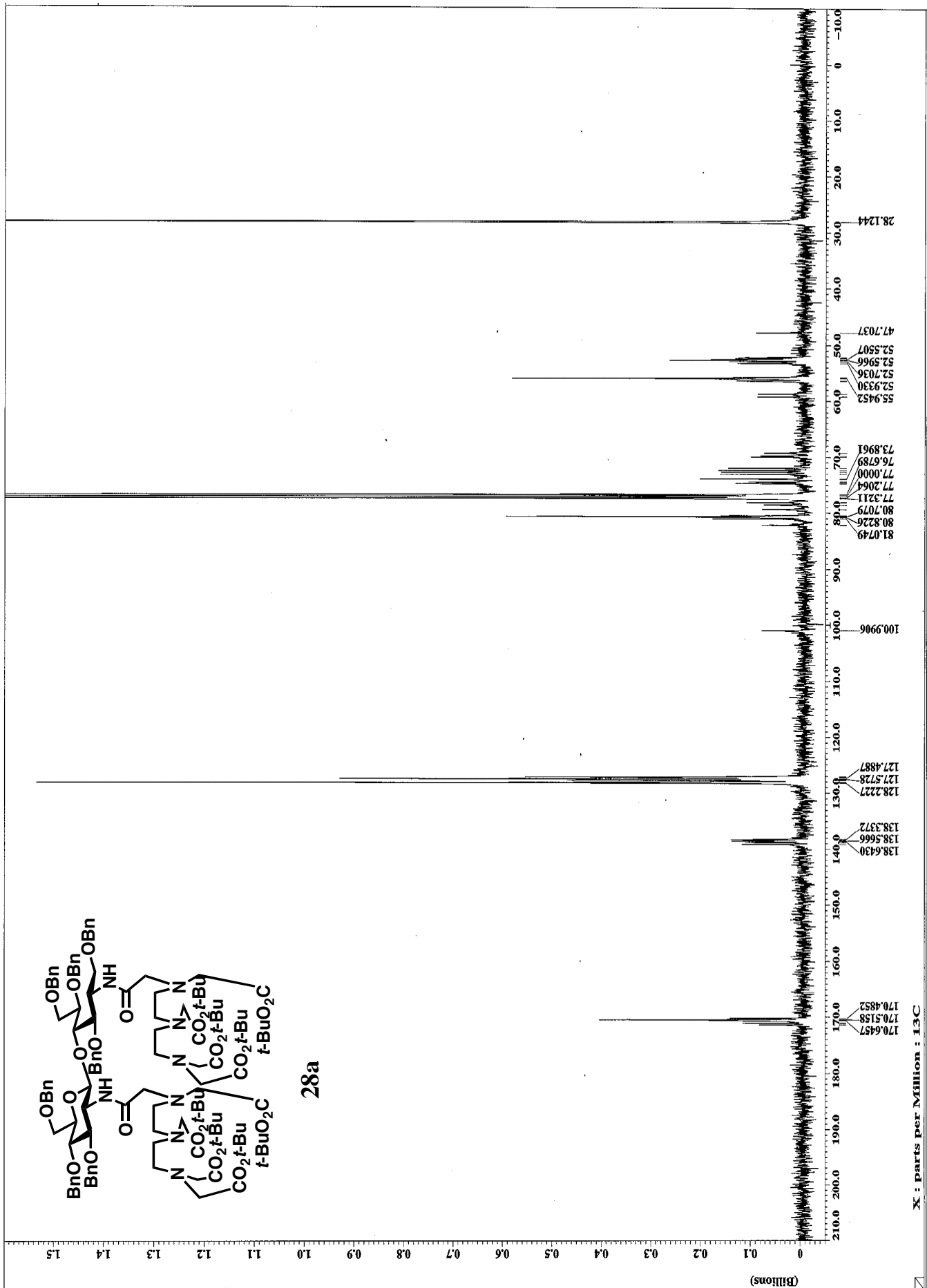


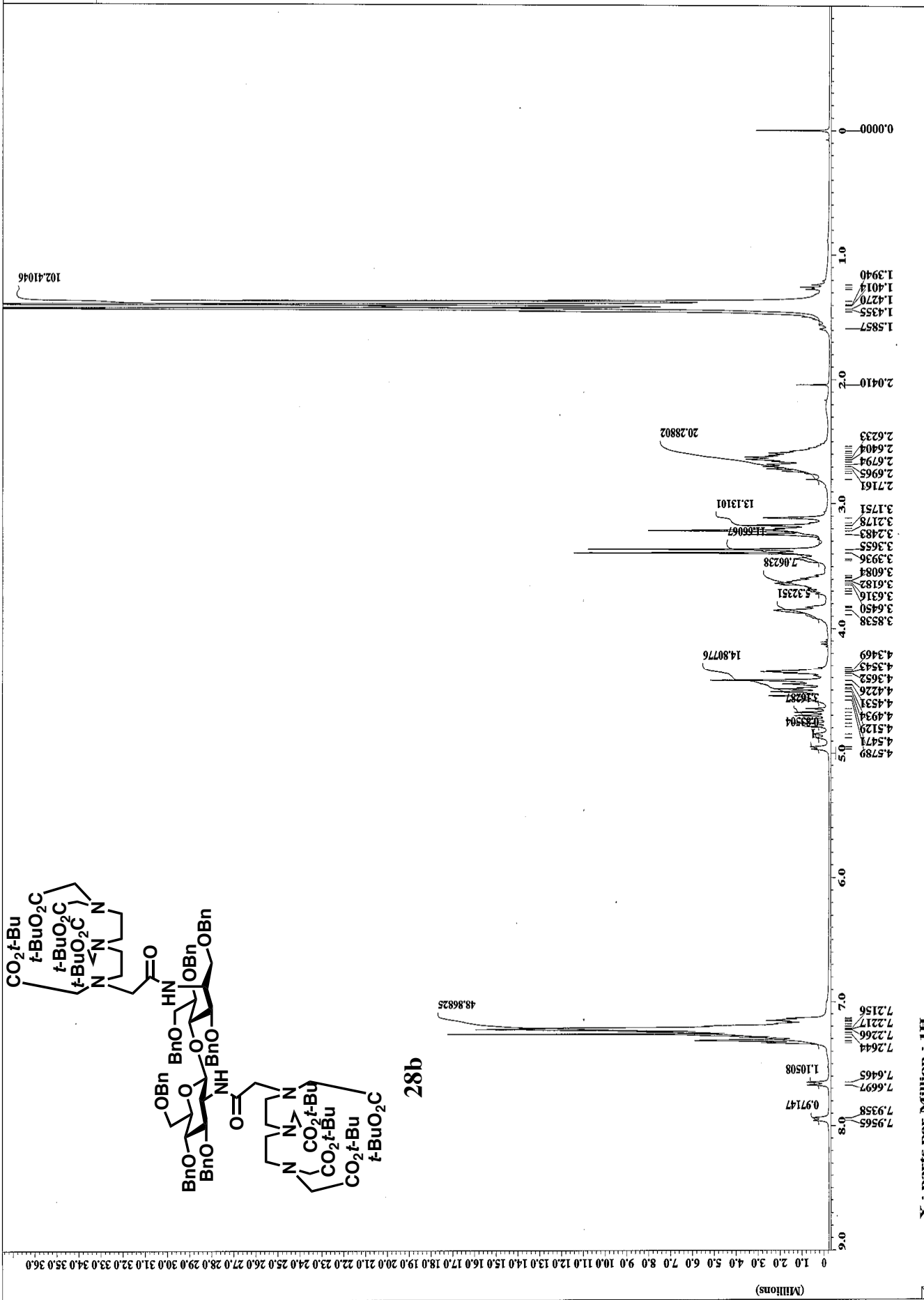
X : parts per Million : III

28a

(Millions)

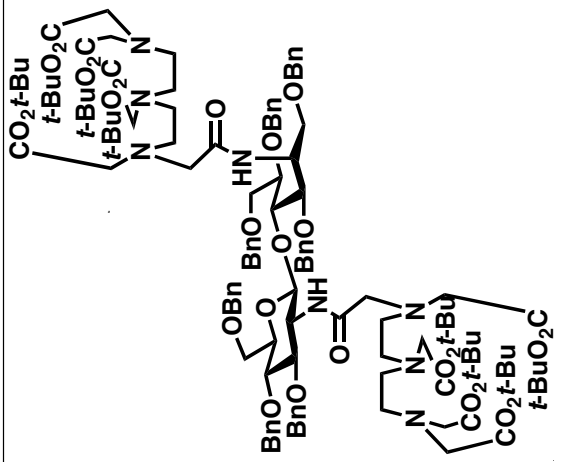
104.90784



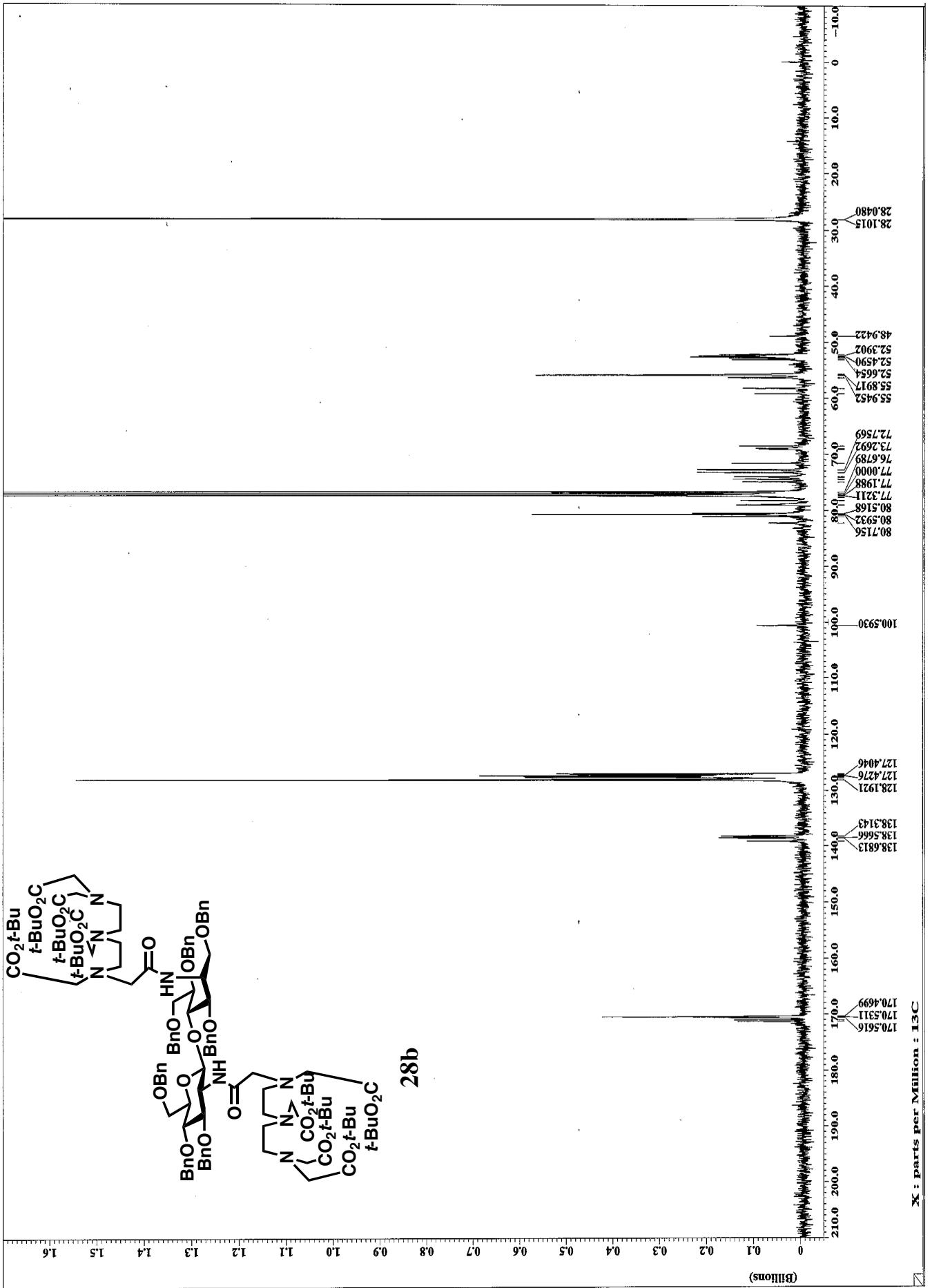


X : parts per Million : 1H

28b

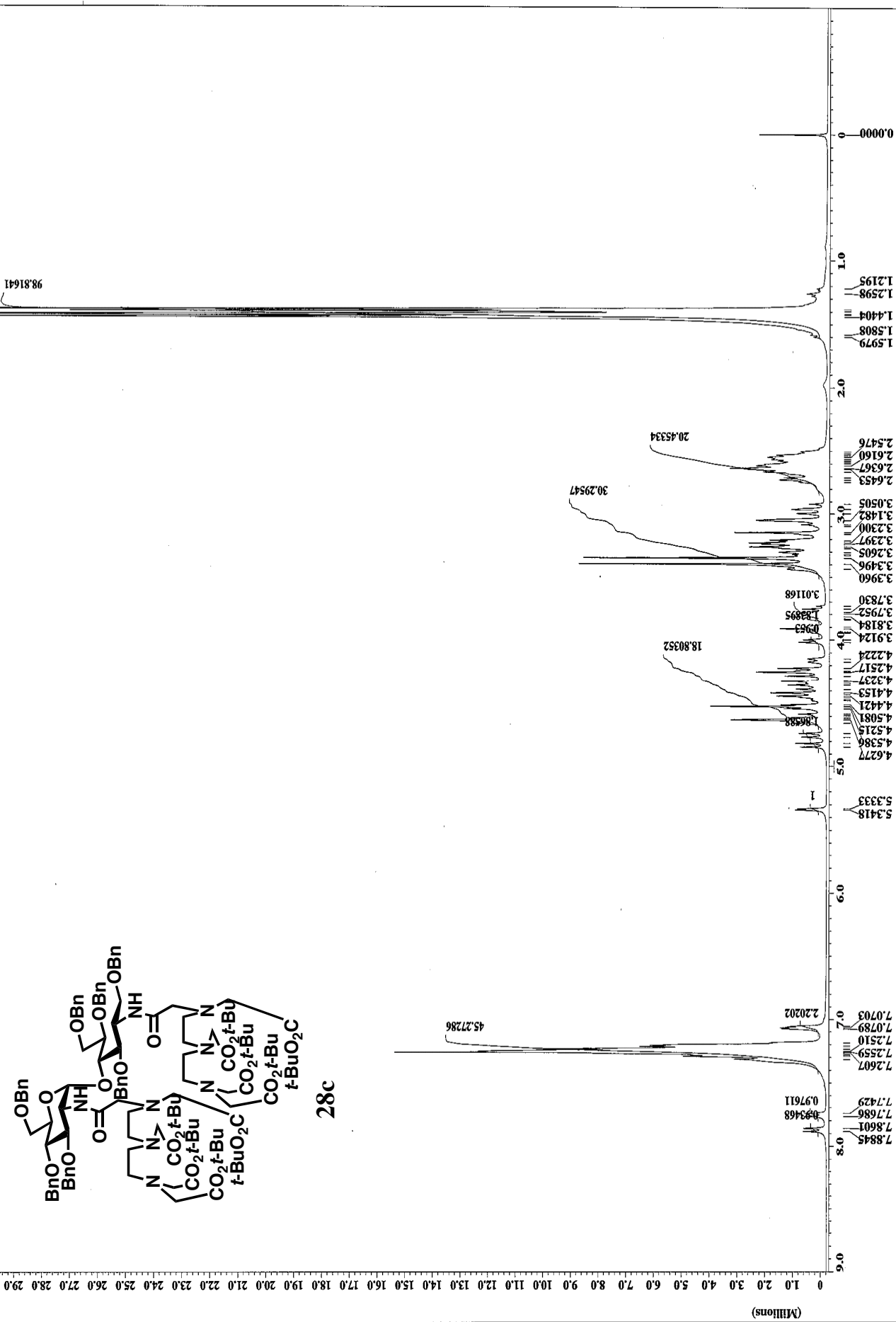


102.41046



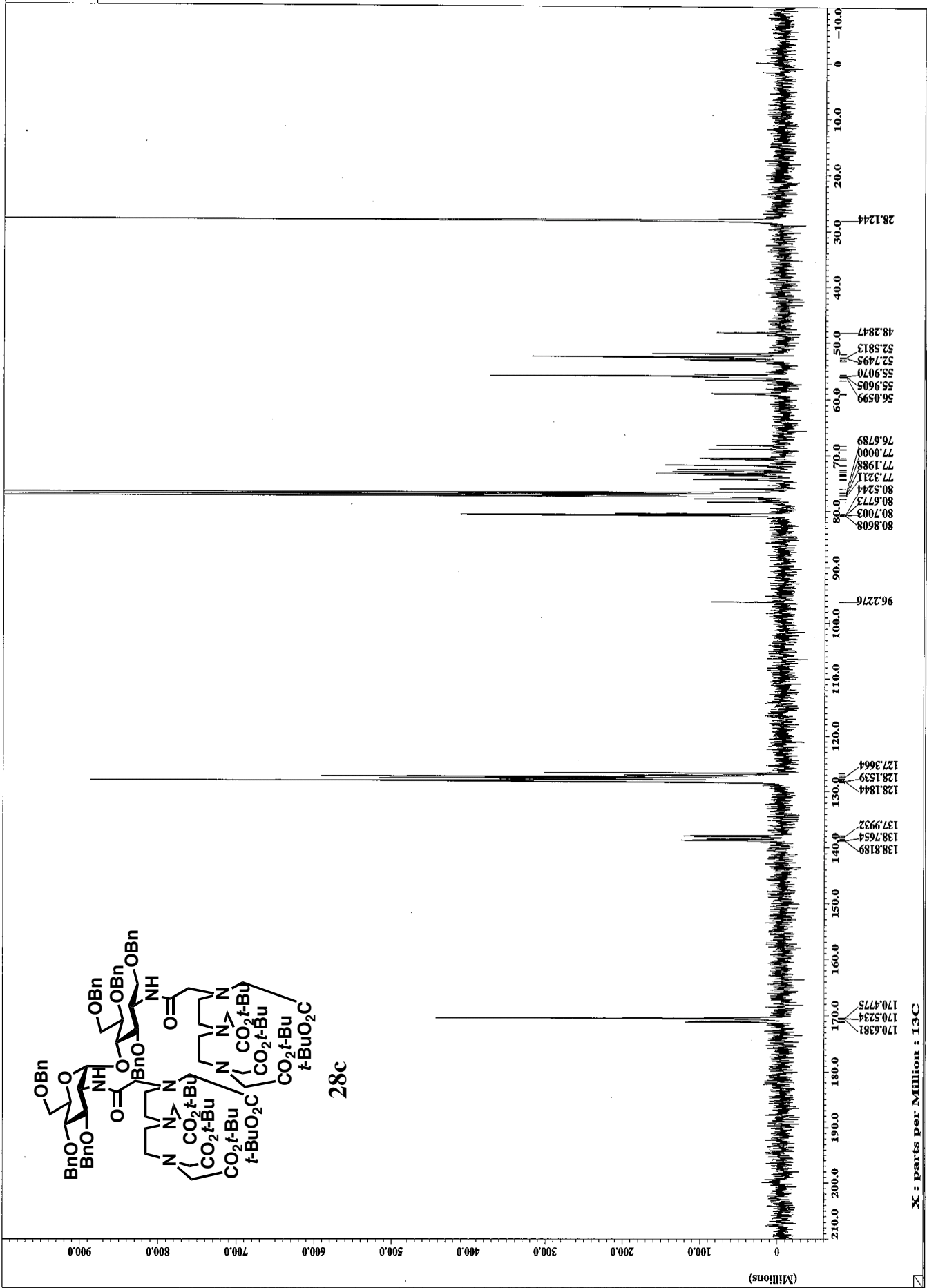
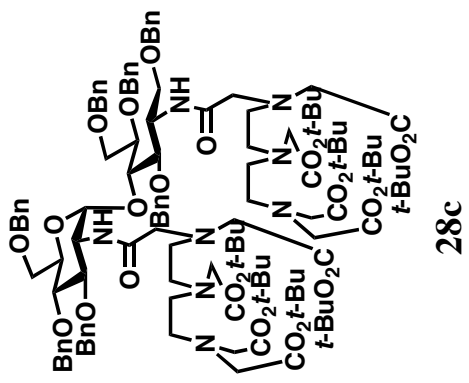
X : parts per Million : 13C

X : parts per Million : 1H

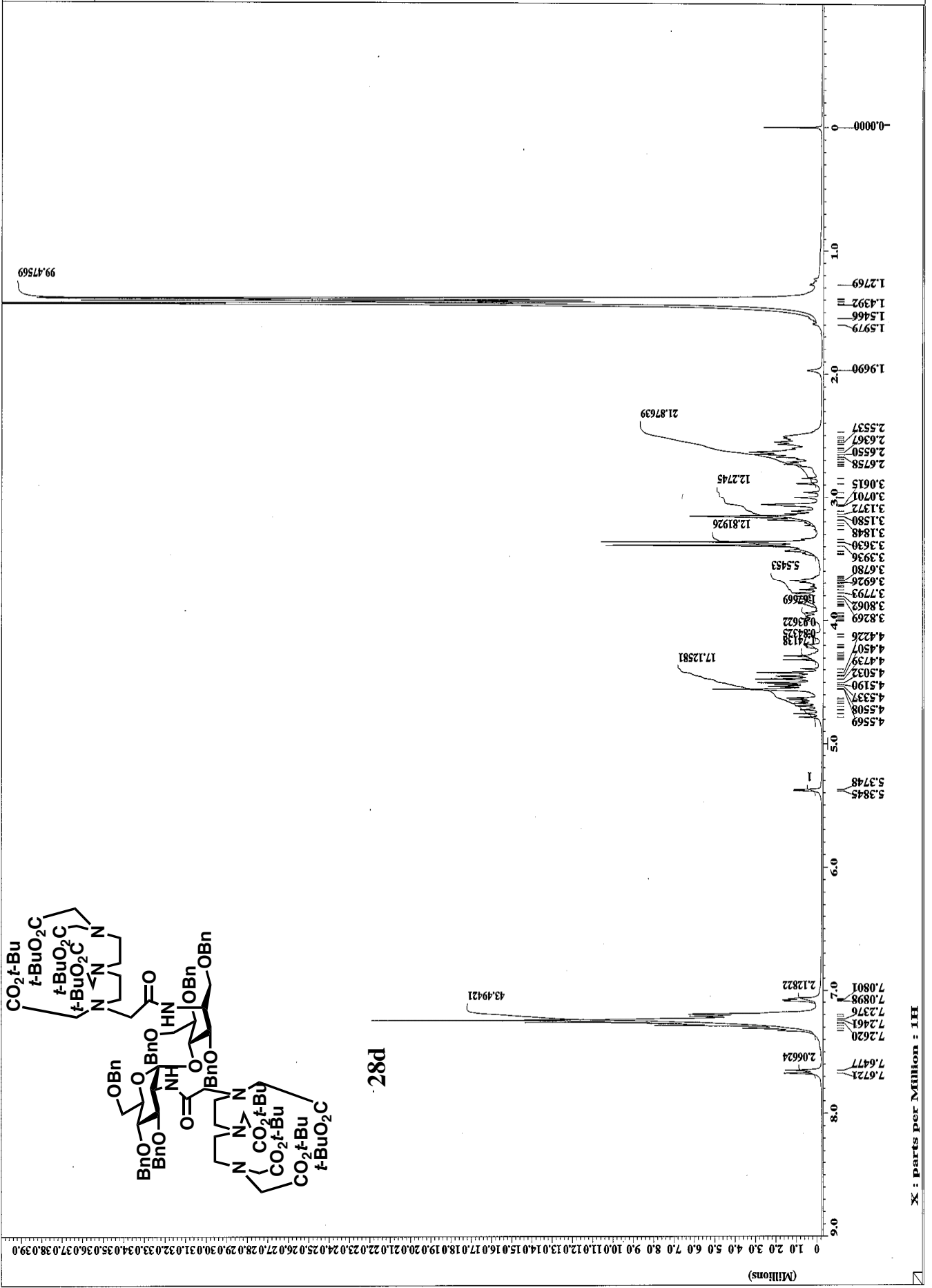


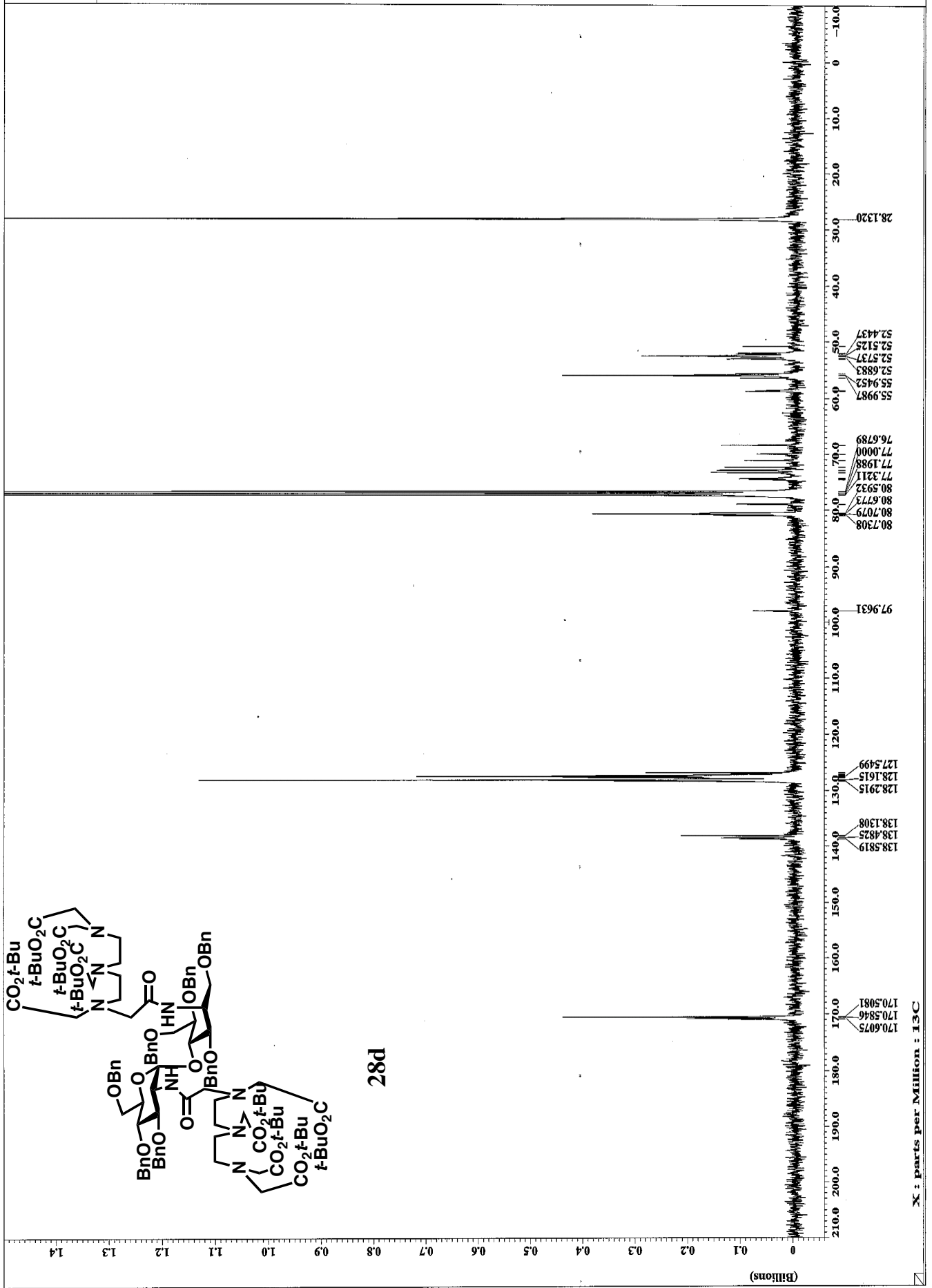
28c

(Millions)

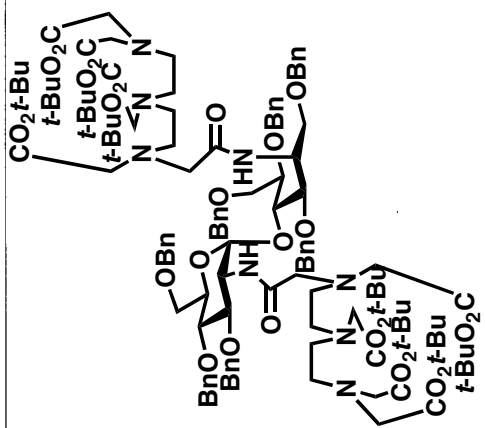


X : parts per Million : 13C



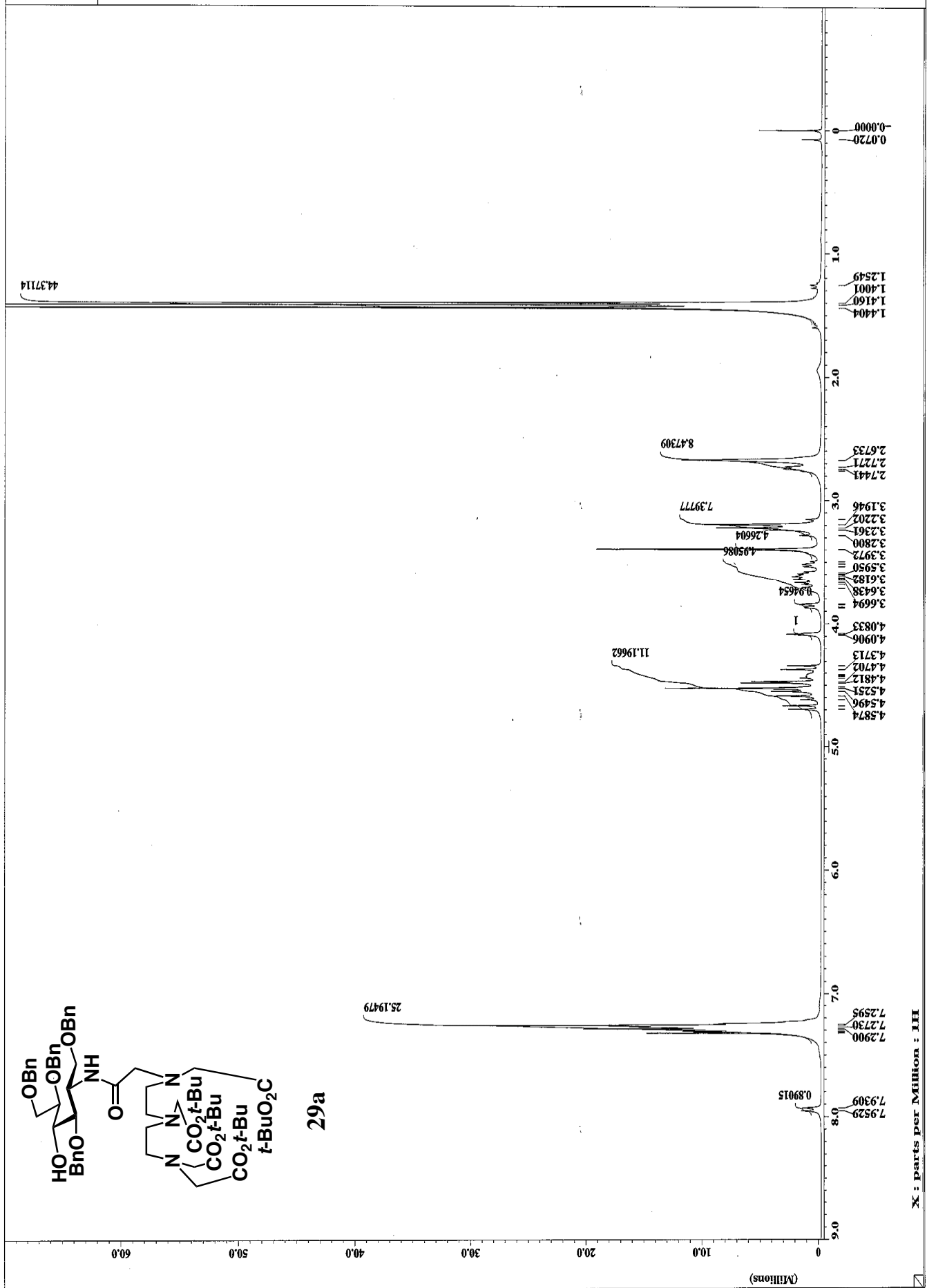


28d

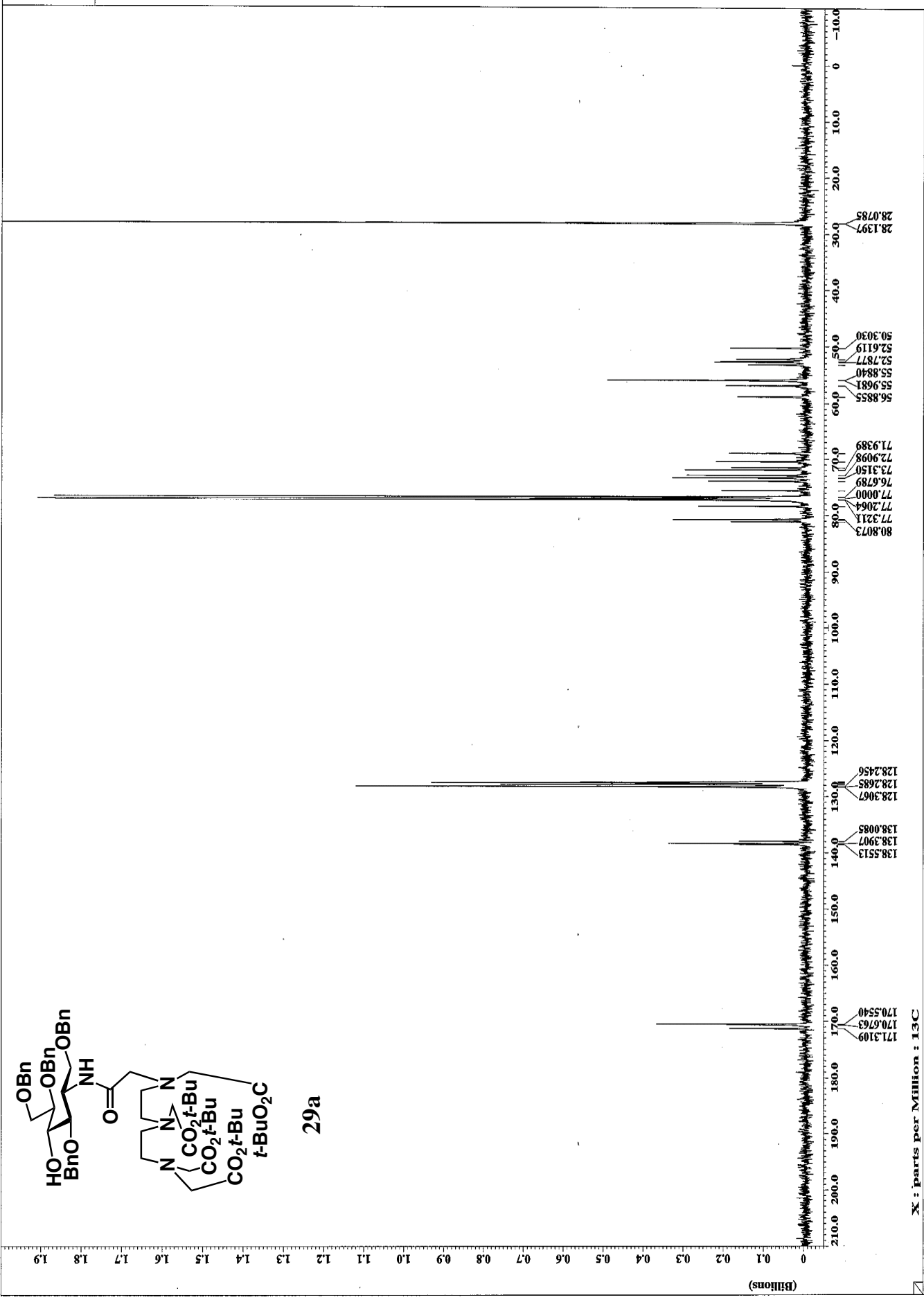


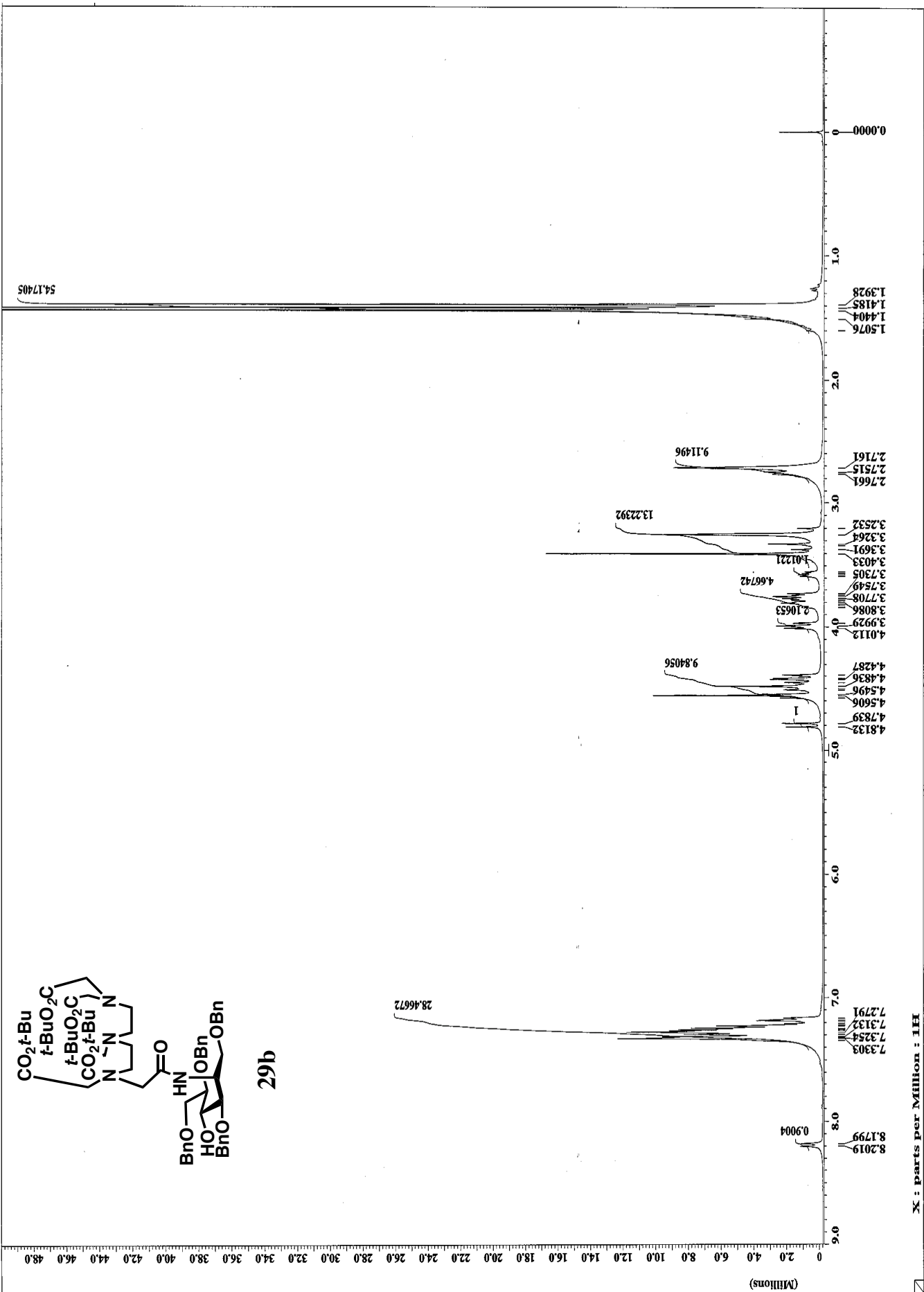
X : parts per Million : 13C

(Billions)



X : parts per Million : 1H

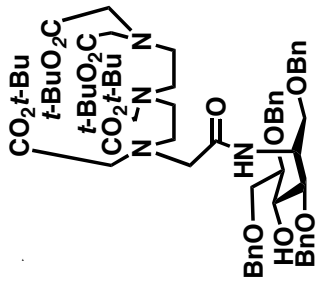
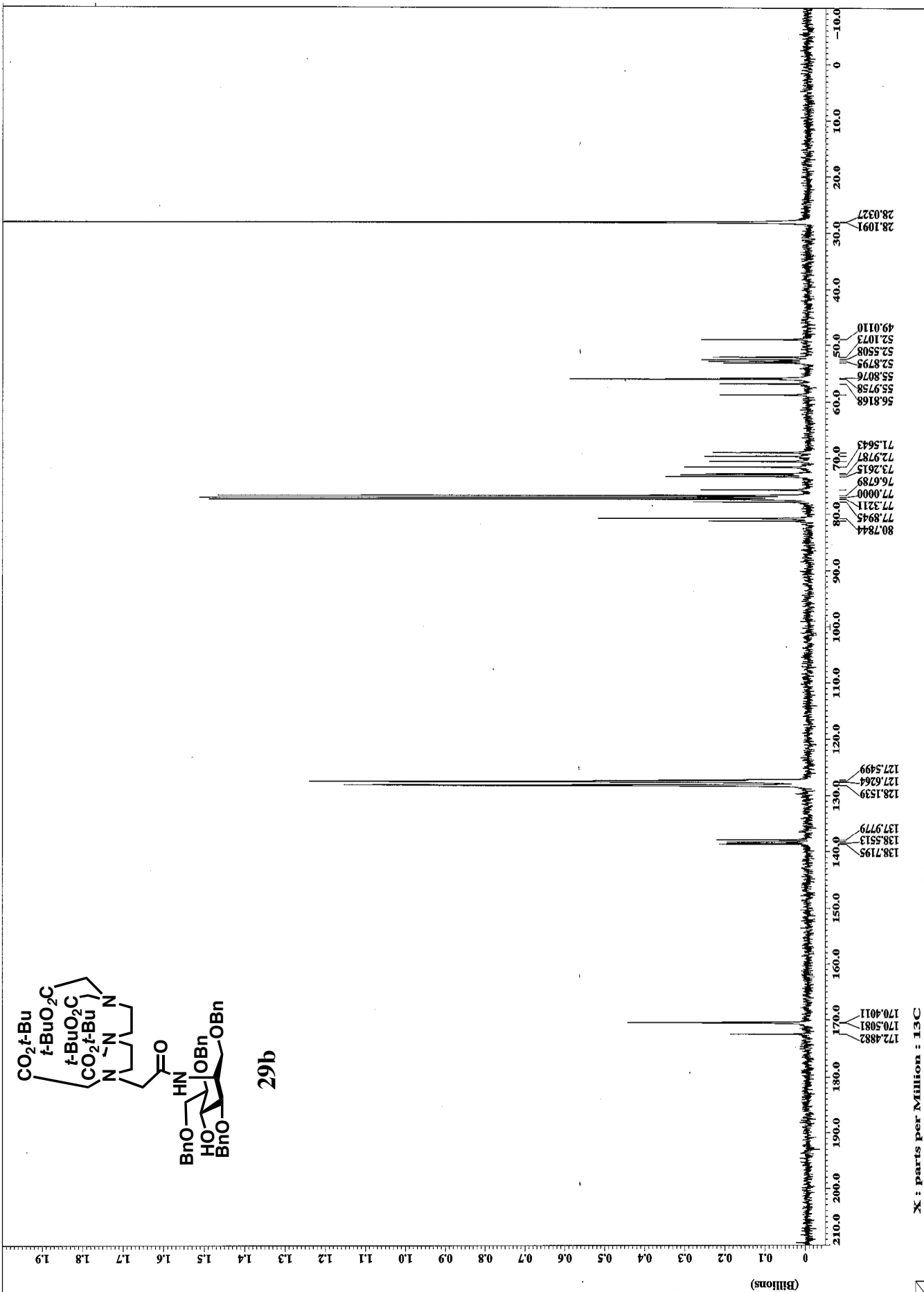




X : parts per Million : 1H

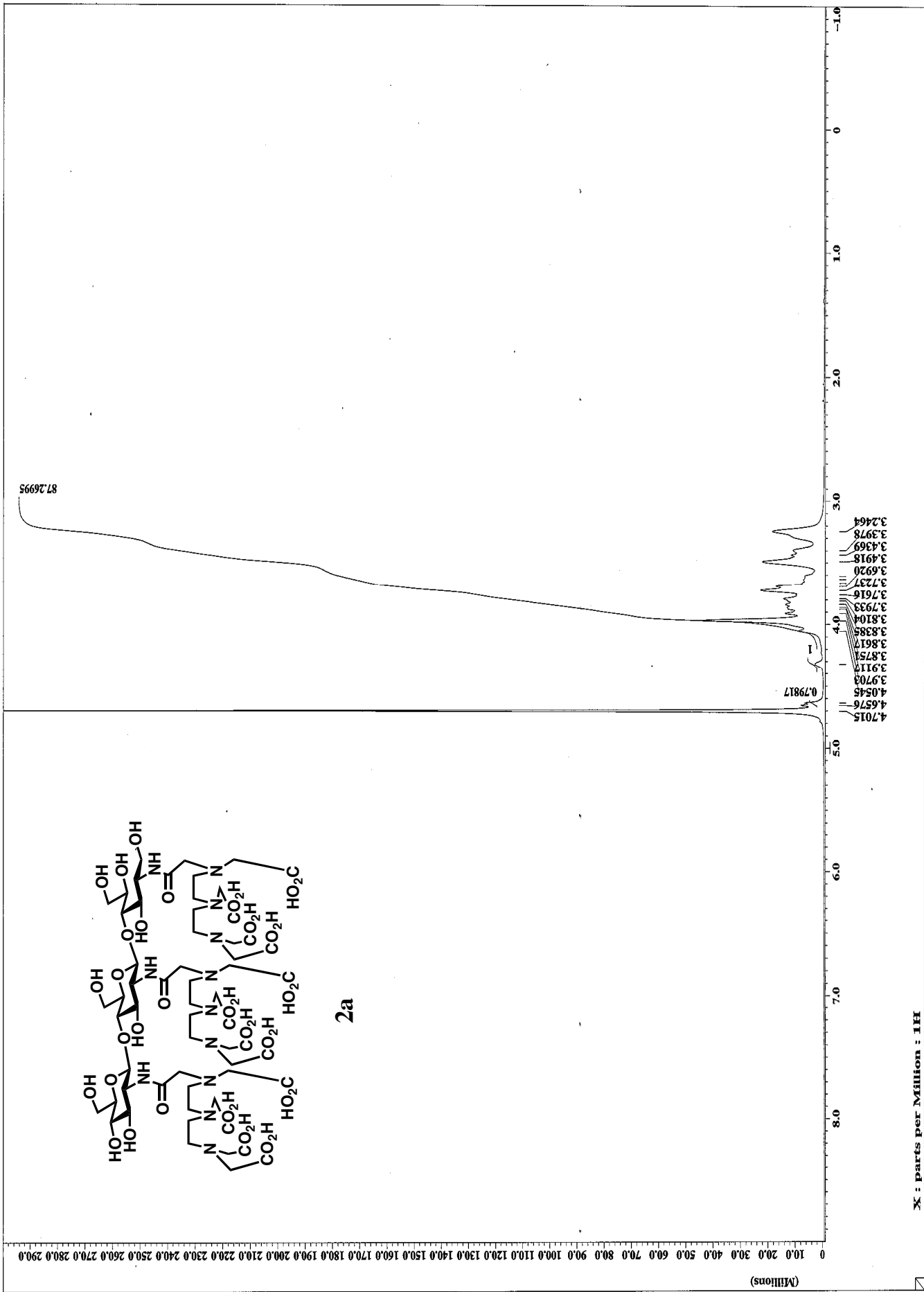
(Millions)

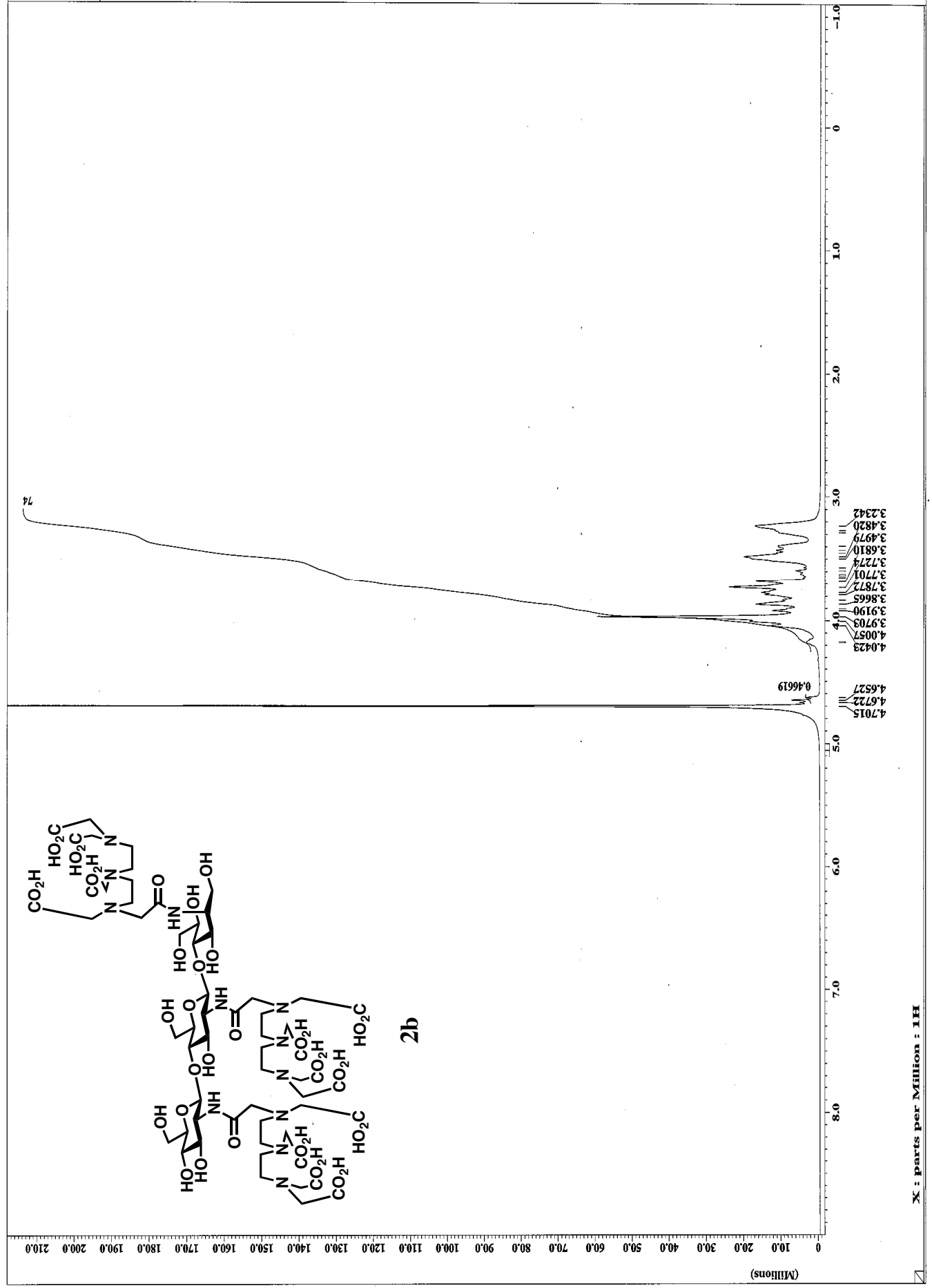
54.17405



29b

X : parts per Million : 13C



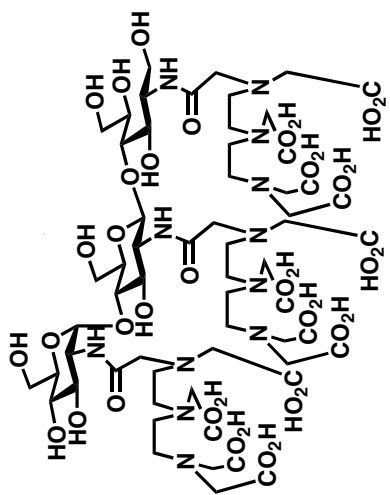
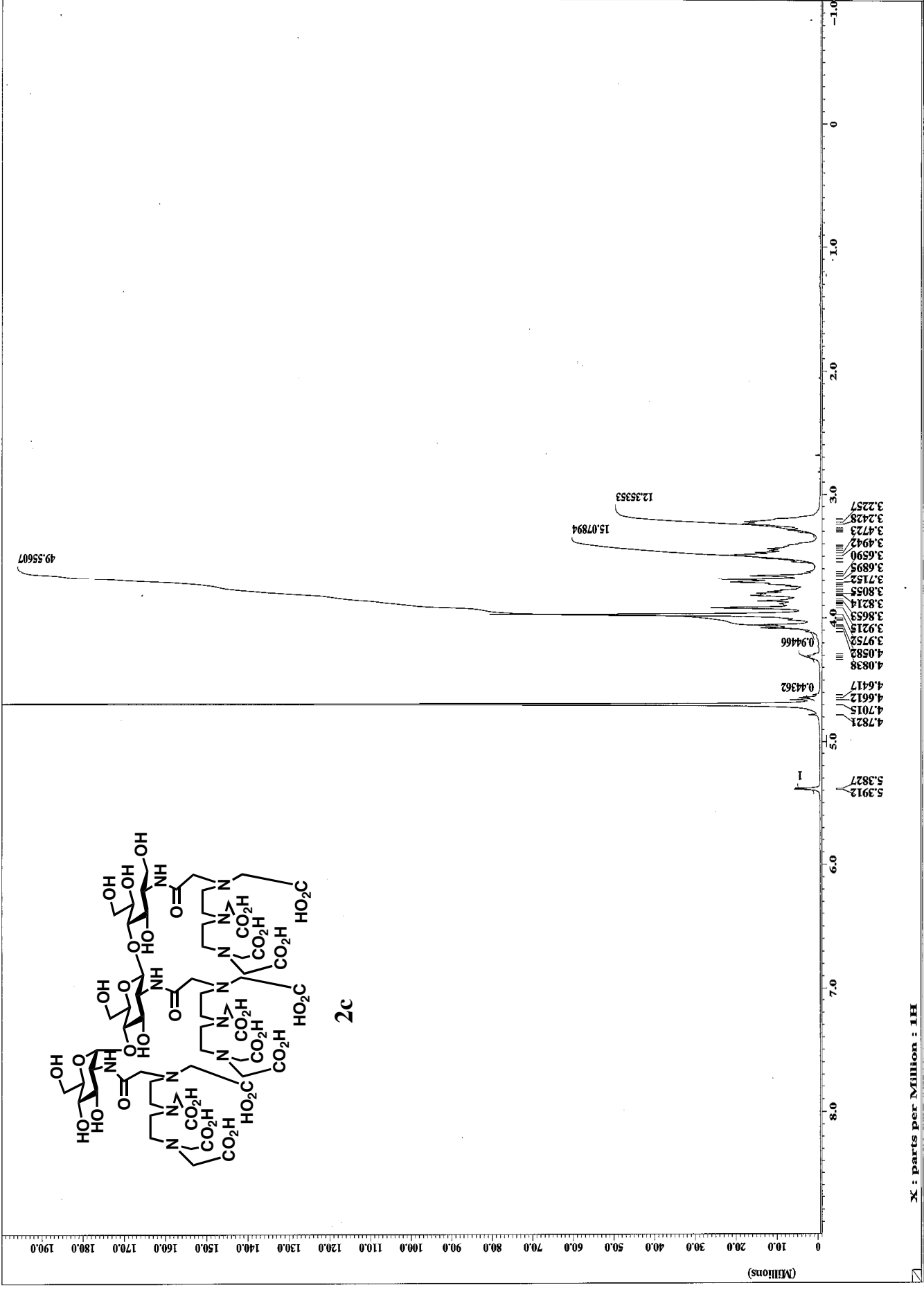


X : parts per Million : 1H

4.7015
4.6722
4.6527
0.46619
4.0423
4.0057
3.9703
3.9190
3.8665
3.7872
3.7701
3.7274
3.6810
3.4979
3.4820
3.2342

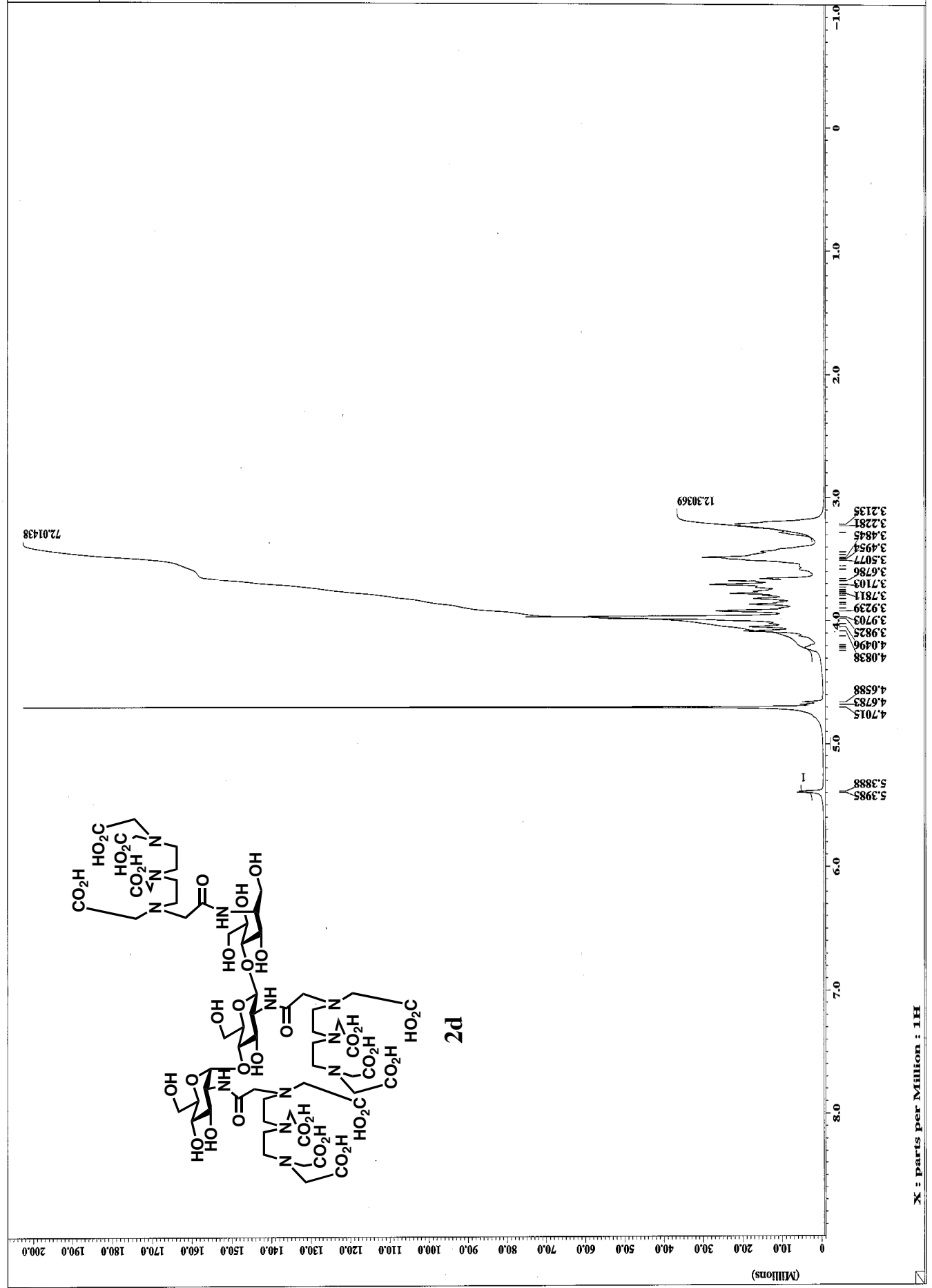
7.4

(Millions)

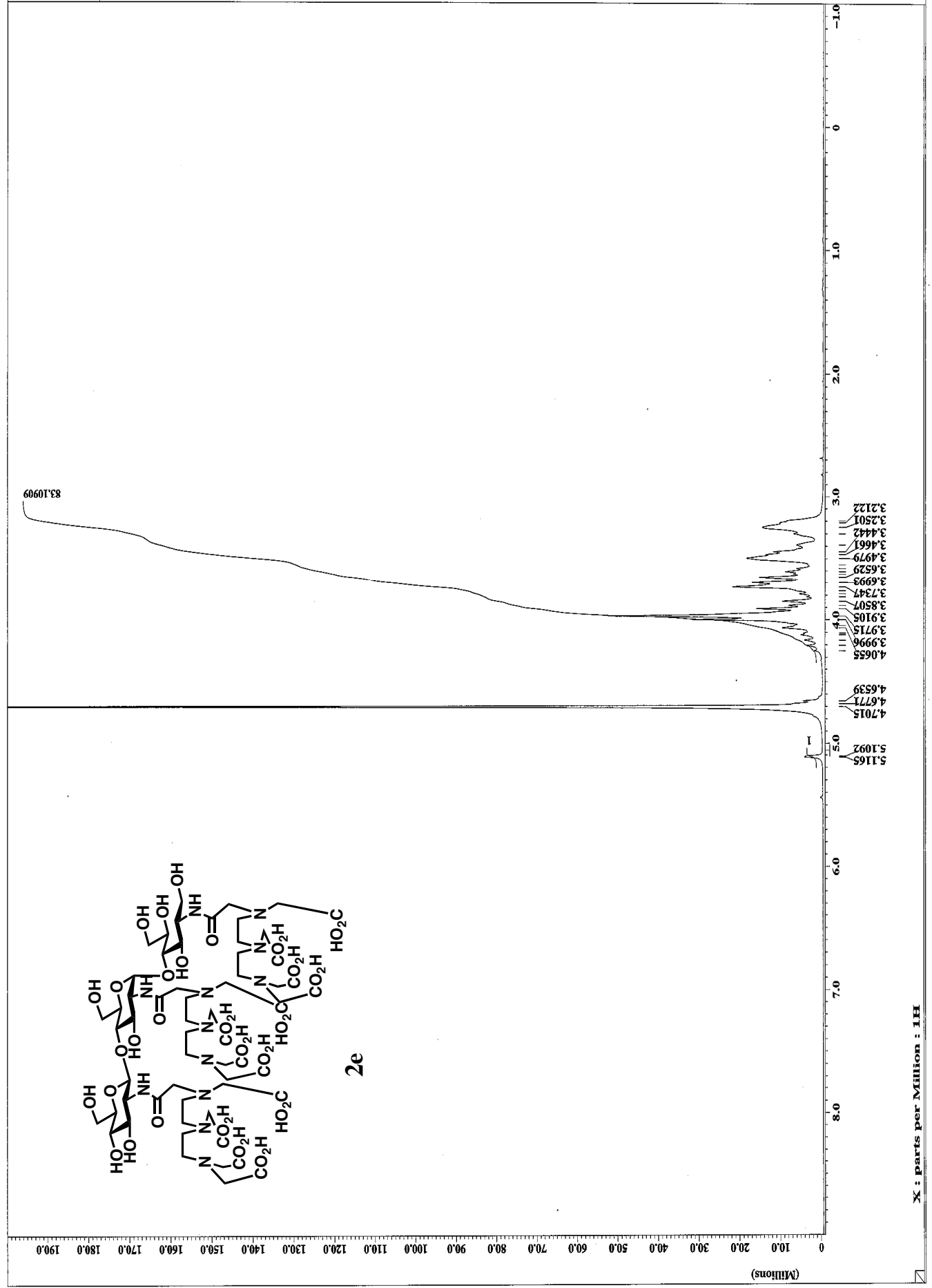


2c

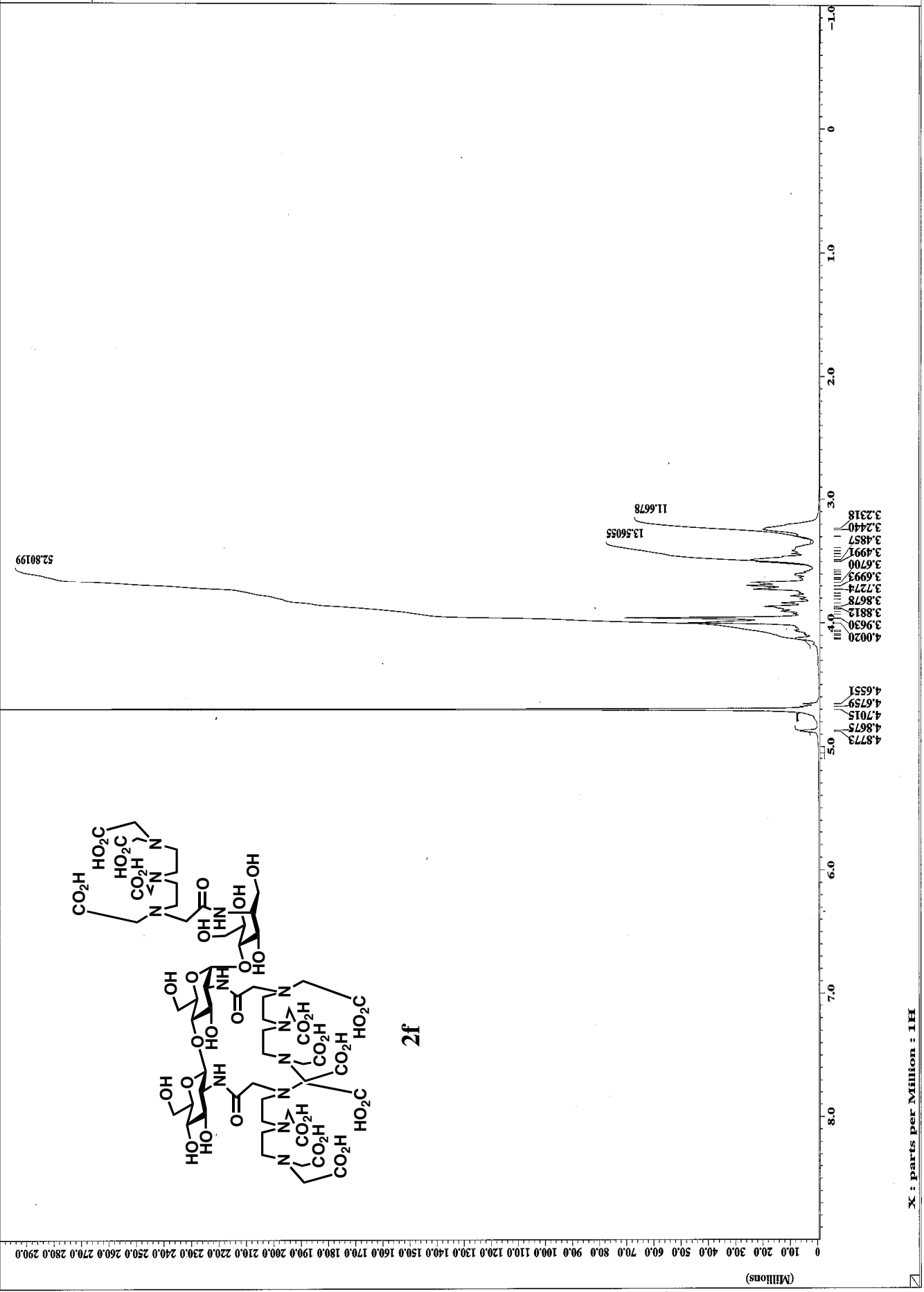
X : parts per Million : 1H



X : parts per Million : 1H



X : parts per Million : 1H



(Millions)

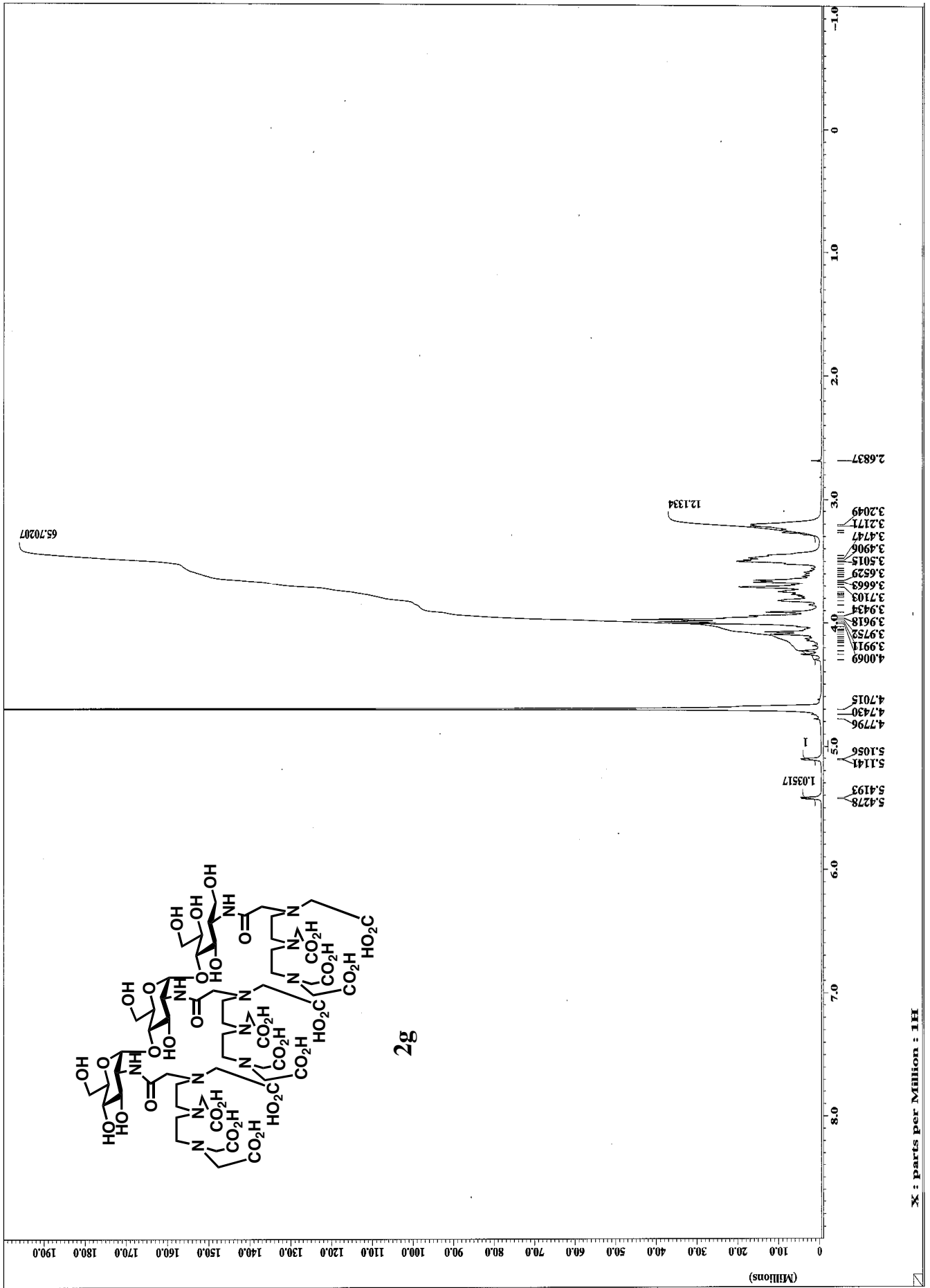
52.80199

13.56055

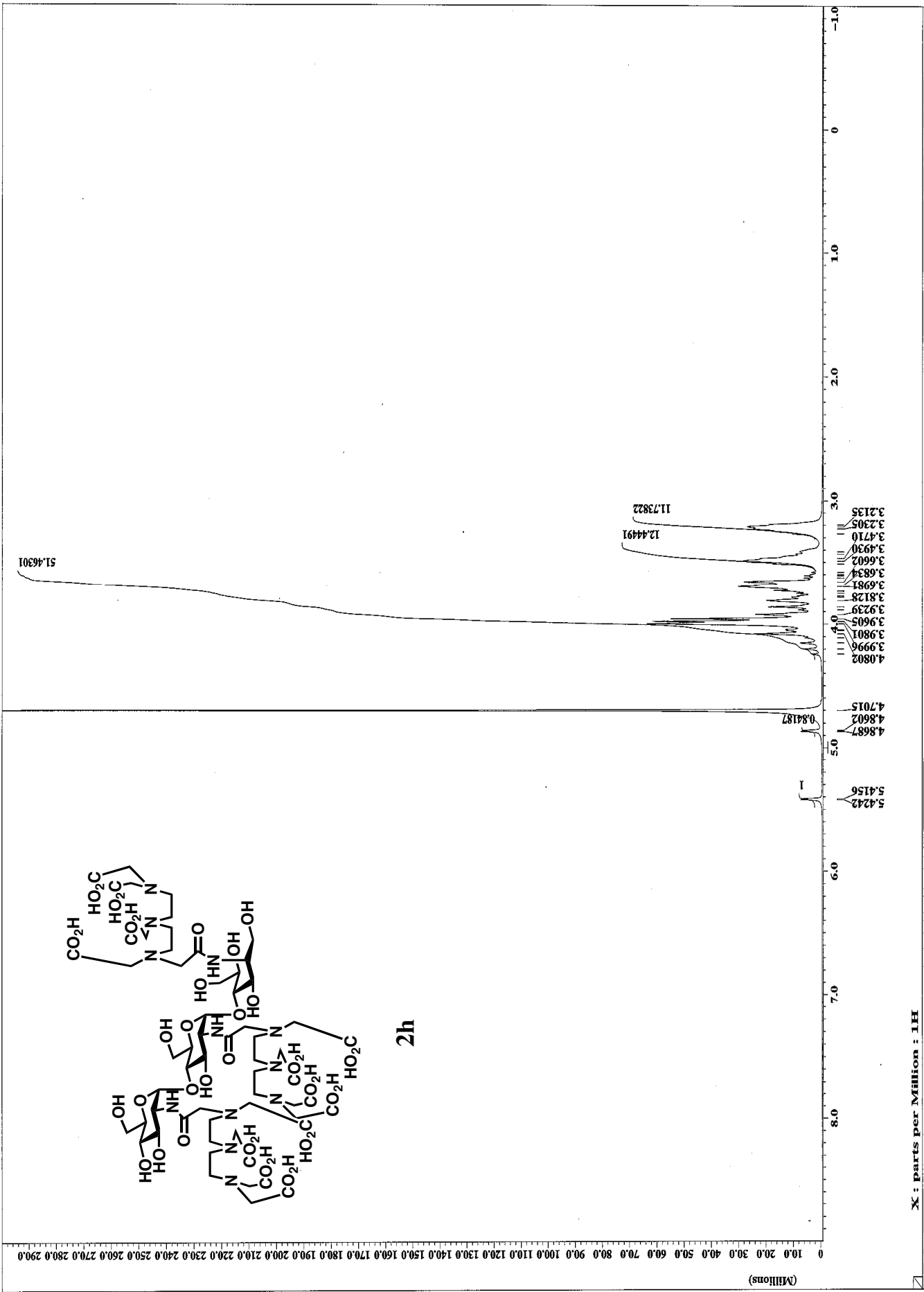
11.6678

4.8773
4.8675
4.7015
4.6759
4.6551
4.0020
3.9630
3.8812
3.8678
3.7274
3.6993
3.6700
3.4991
3.4857
3.2440
3.2318

X : parts per Million : 1H



X : parts per Million : 1H



X : parts per Million : 1H

(Millions)

10.0 9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0 -1.0

3.2135
3.2305
3.4710
3.4930
3.602
3.6834
3.6981
3.8128
3.9239
3.9605
3.9801
3.9996
4.0802

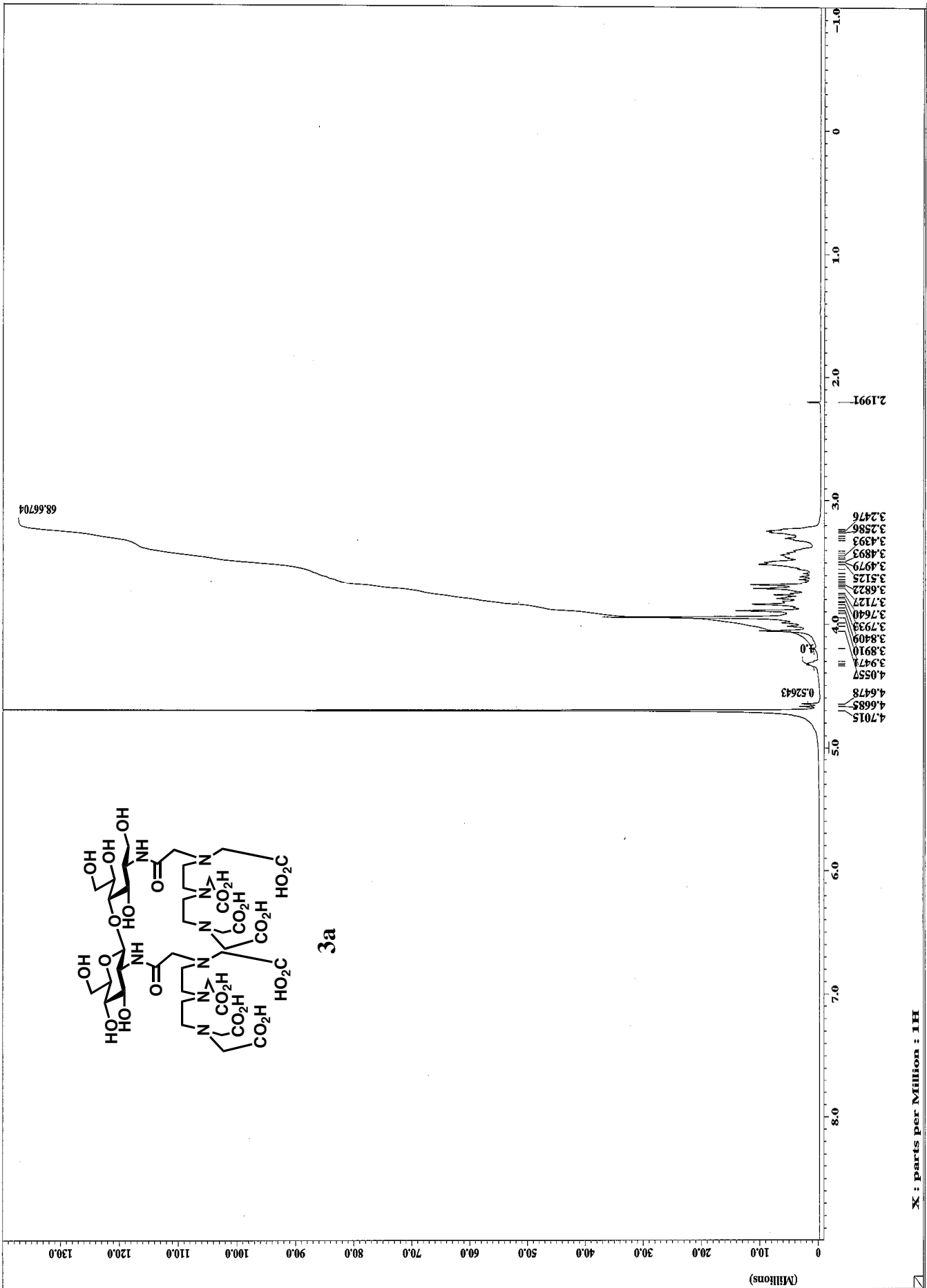
11.73822
12.44491

51.46301

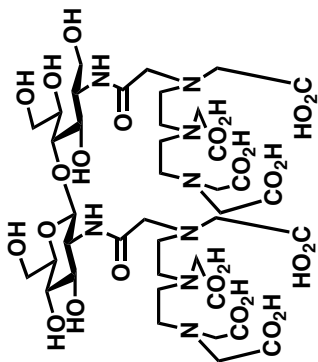
4.8887
4.8602
4.7015
0.84187

5.4242
5.4156

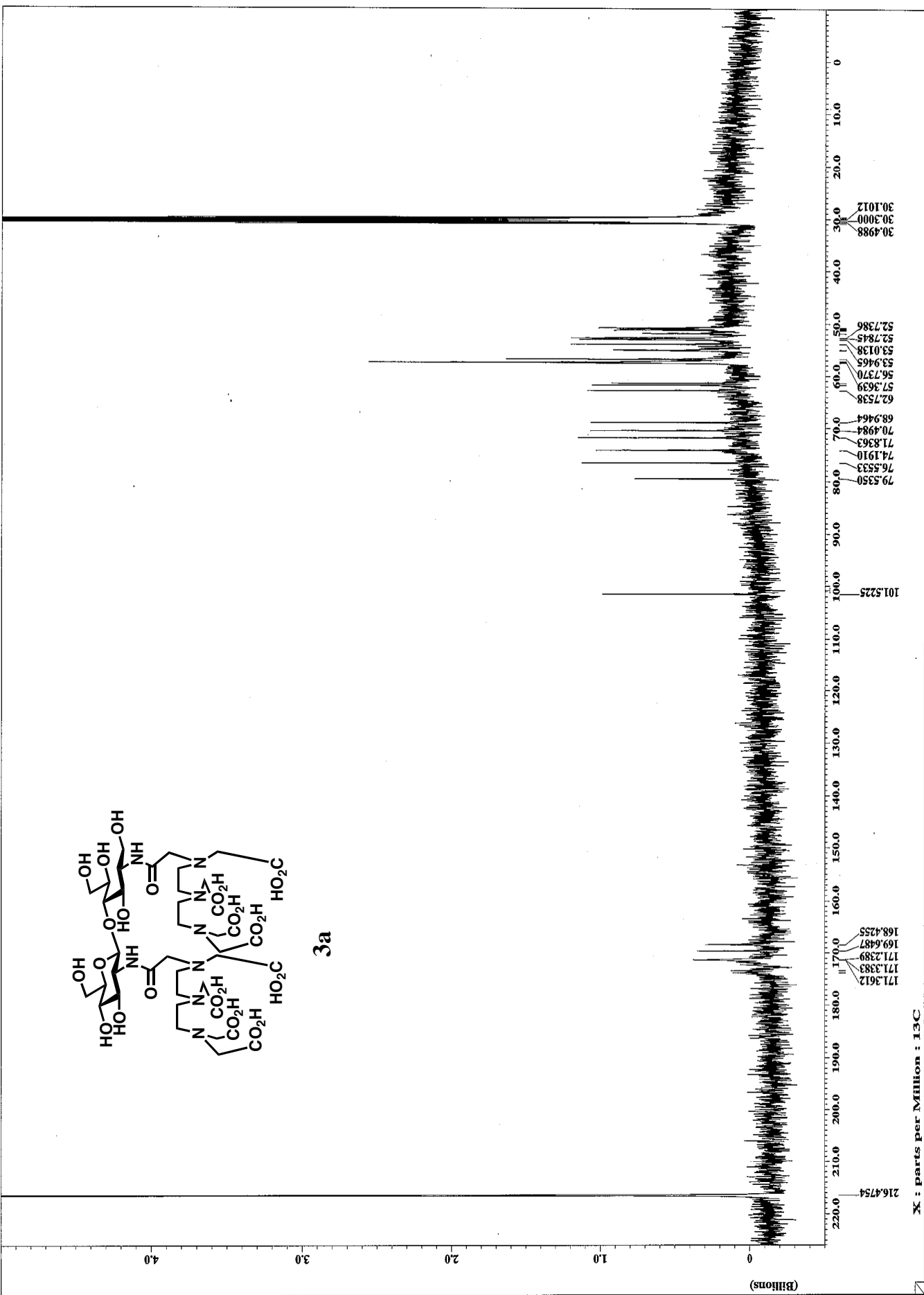
2h



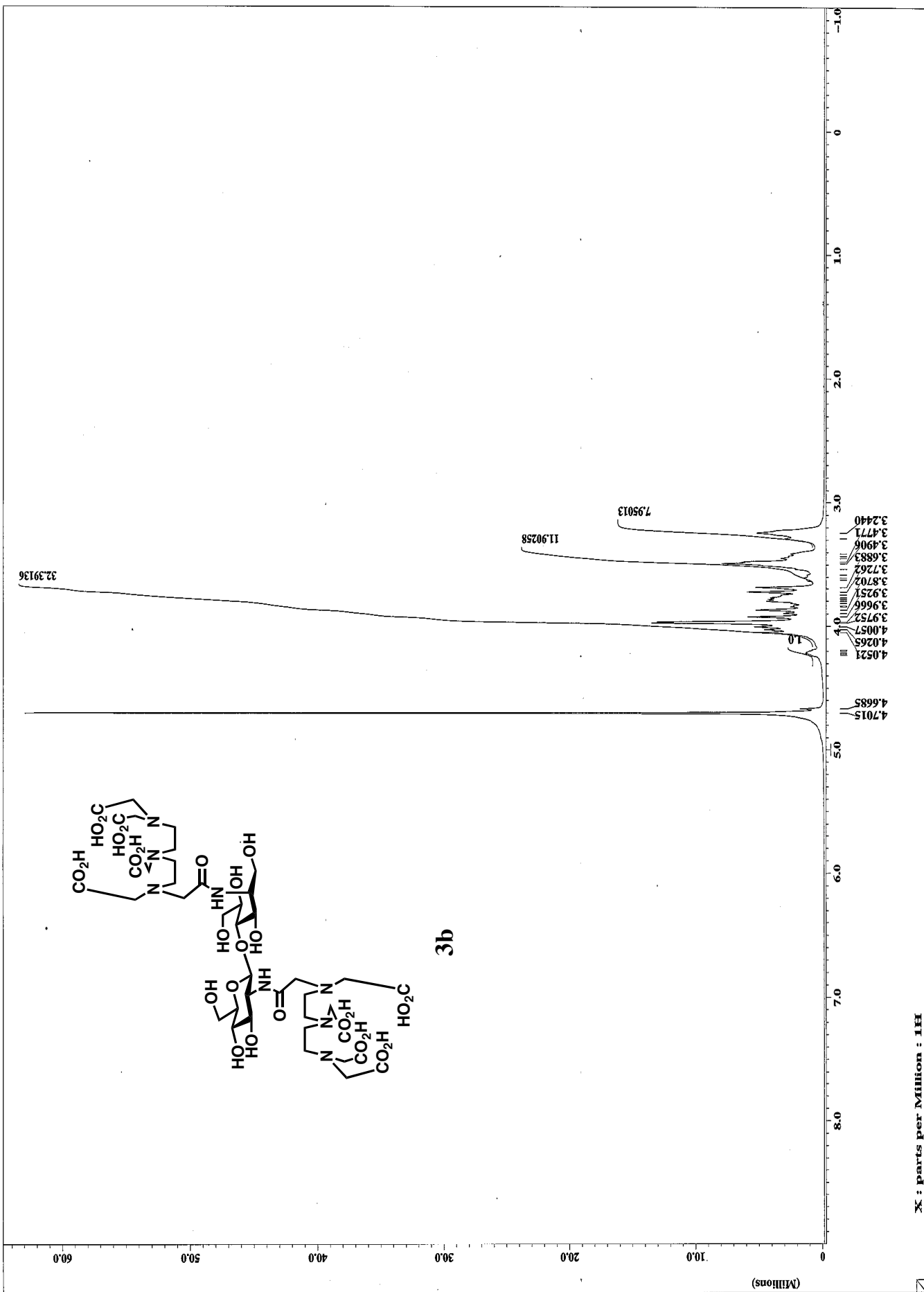
X : parts per Million : 1H



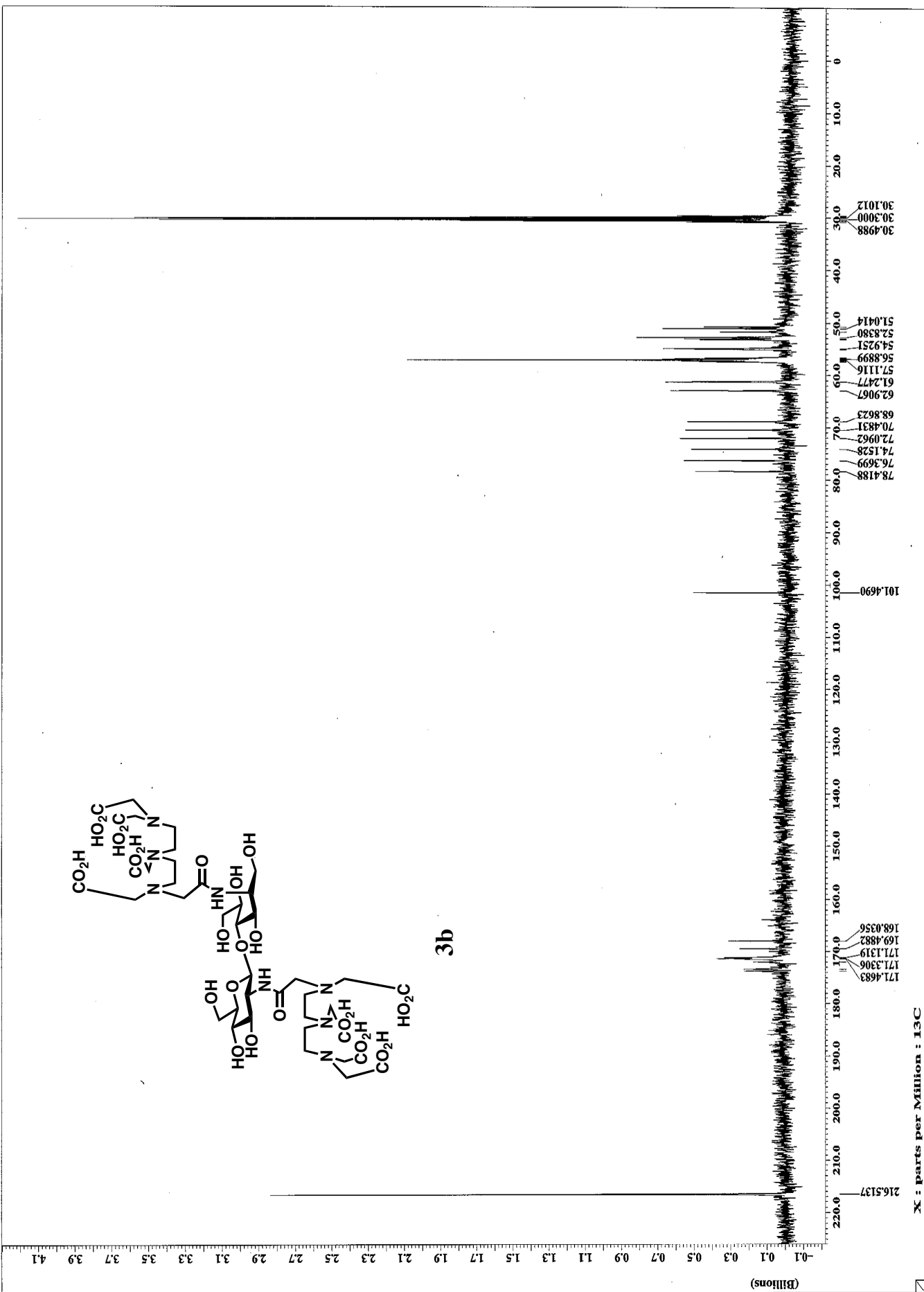
3a



X : parts per Million : 13C



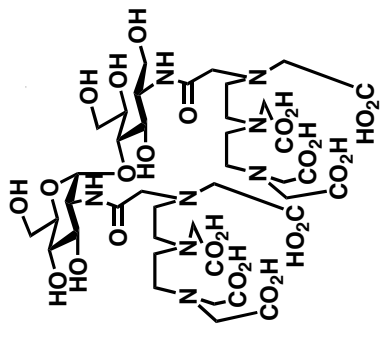
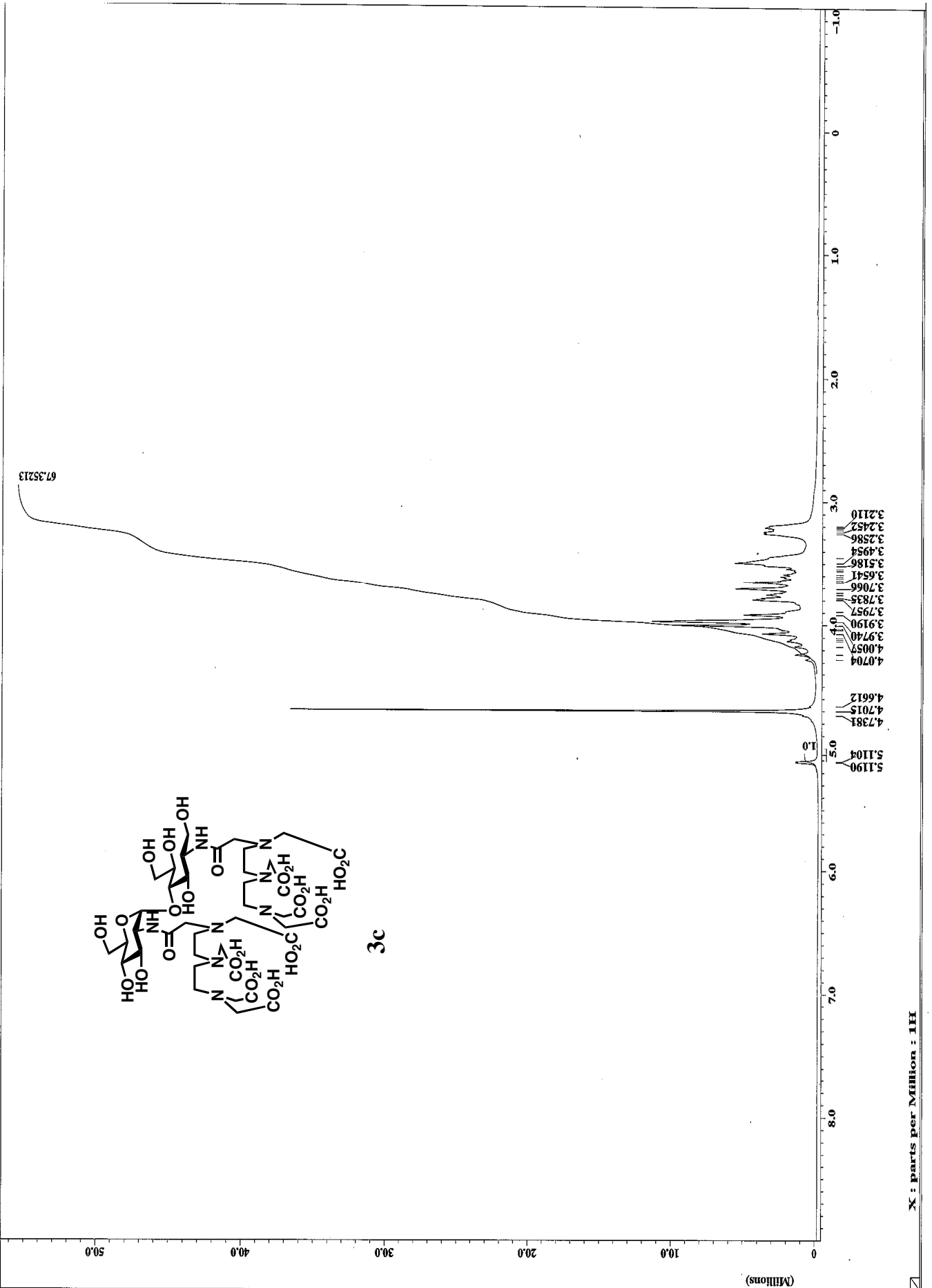
X : parts per Million : 1H

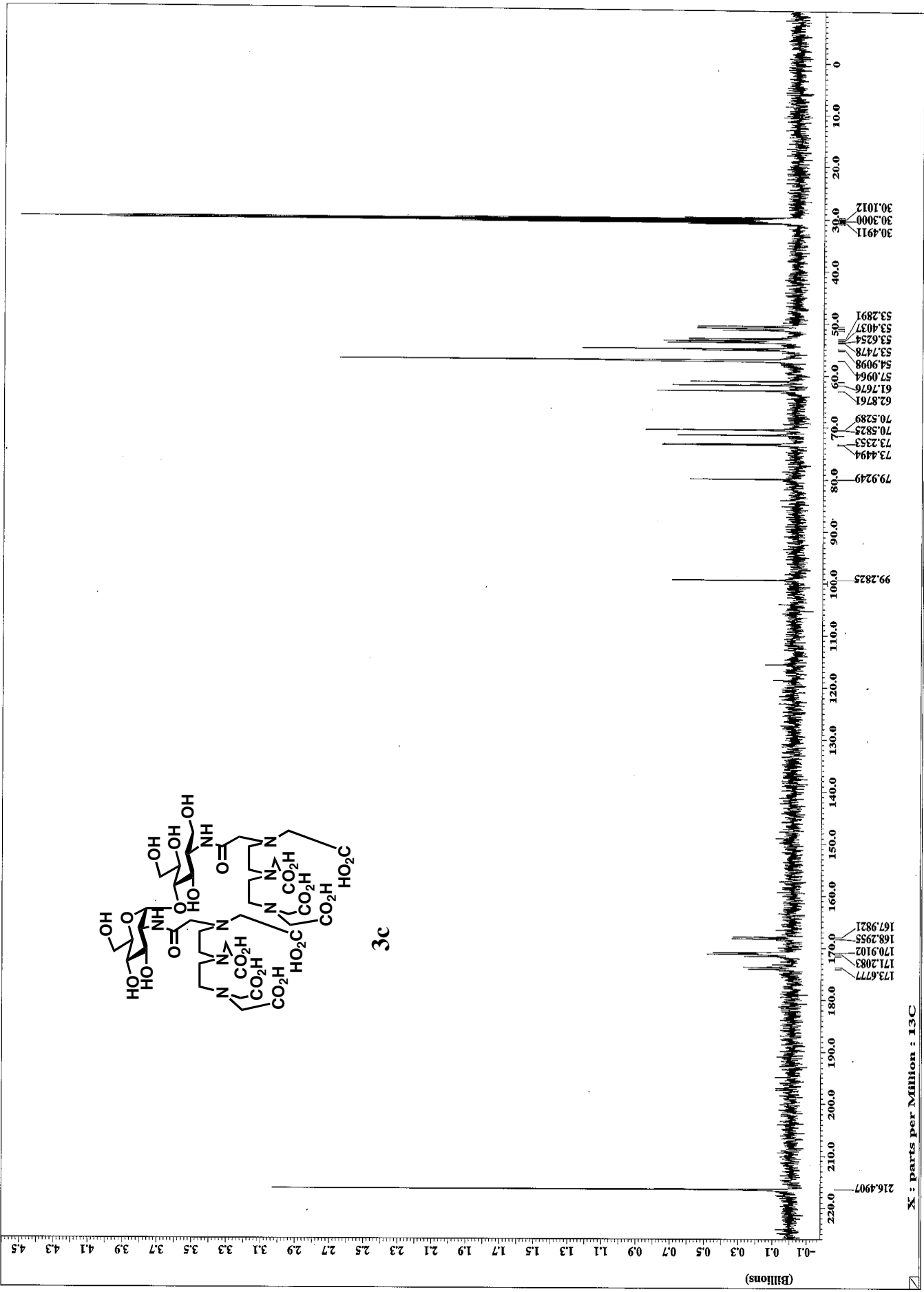


3b

X : parts per Million : ¹³C

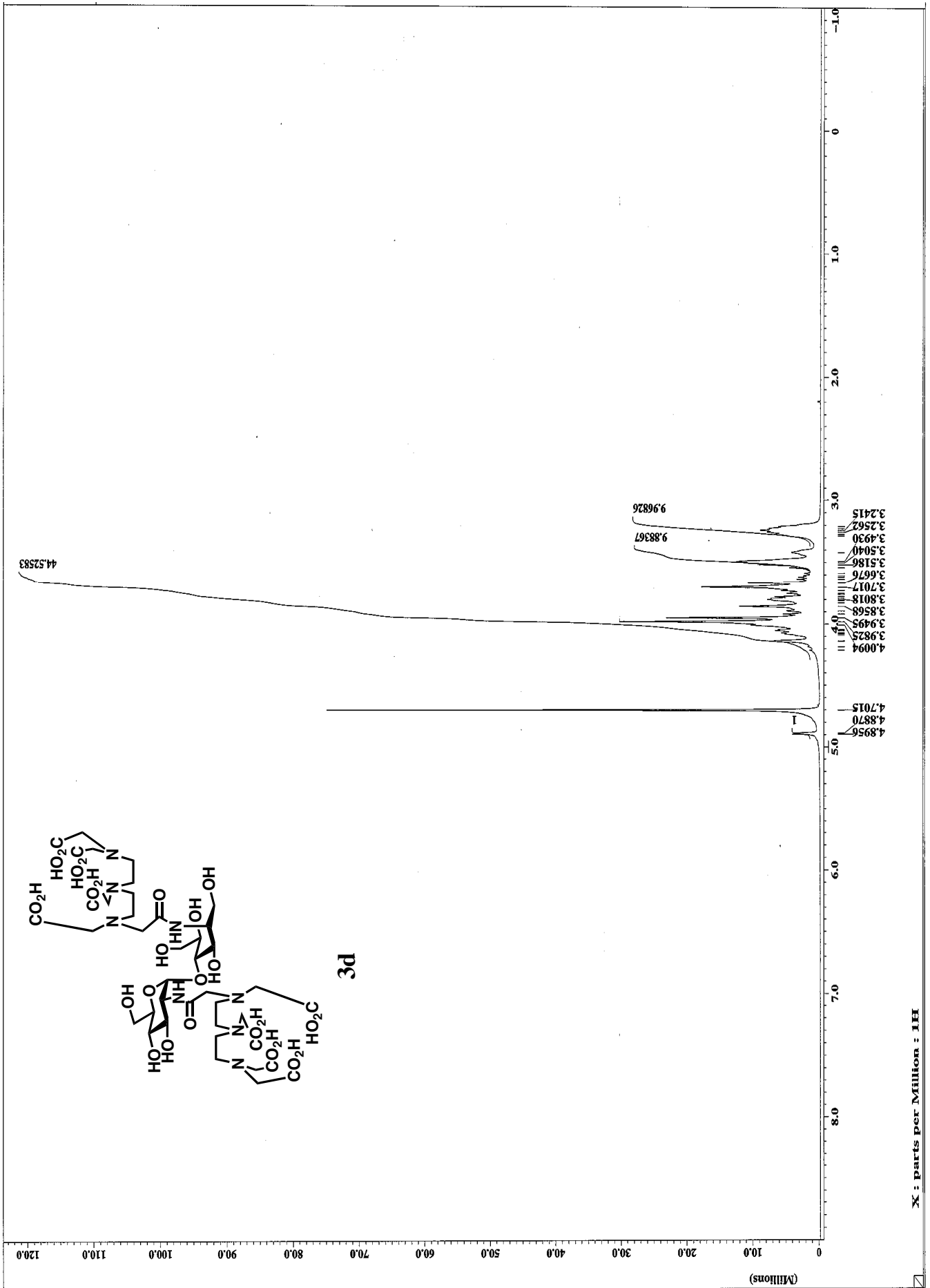
(Billions)

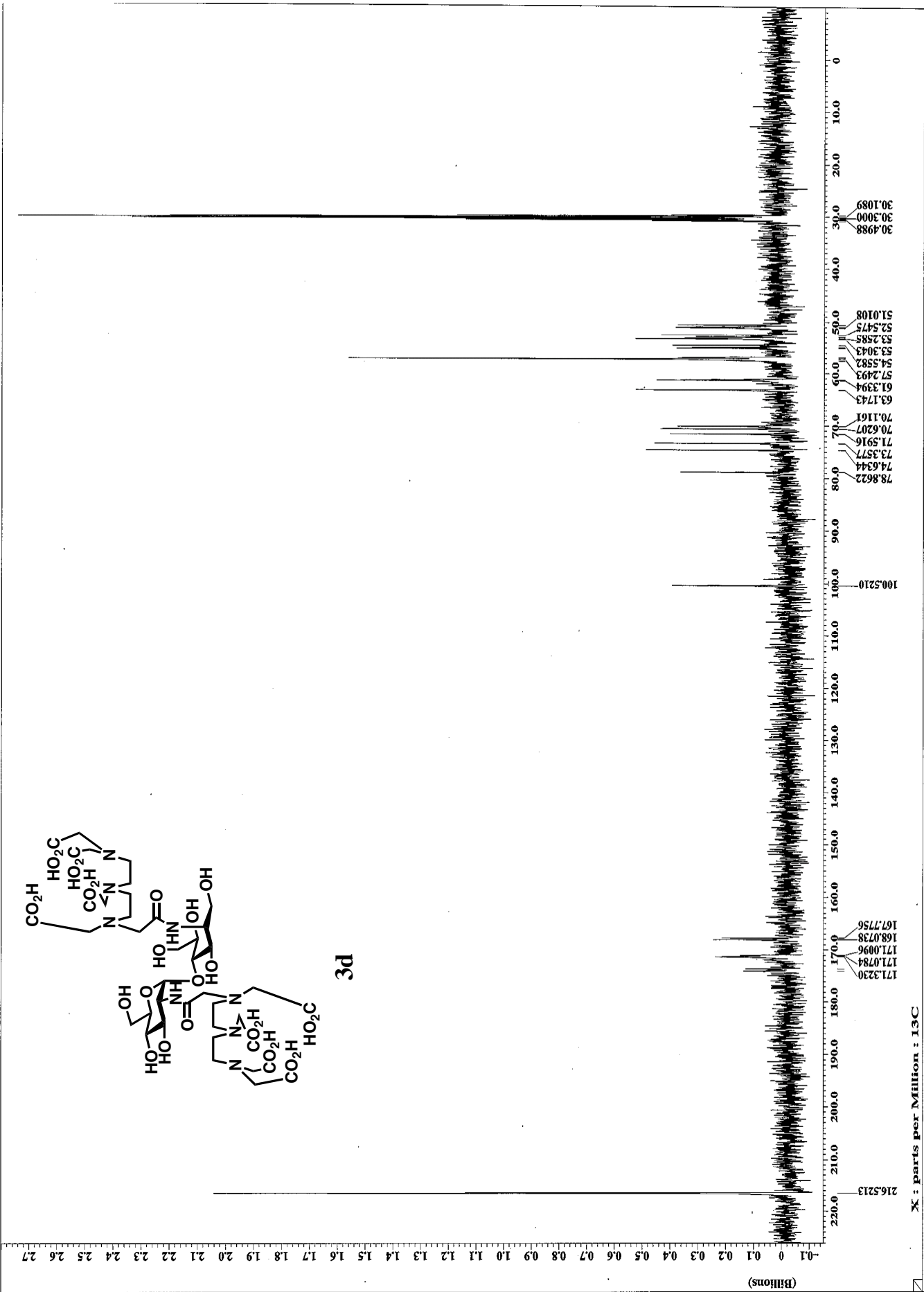


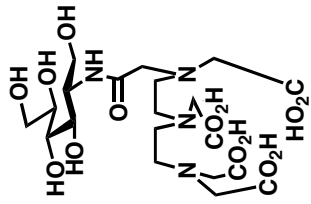


X : parts per Million : PPM

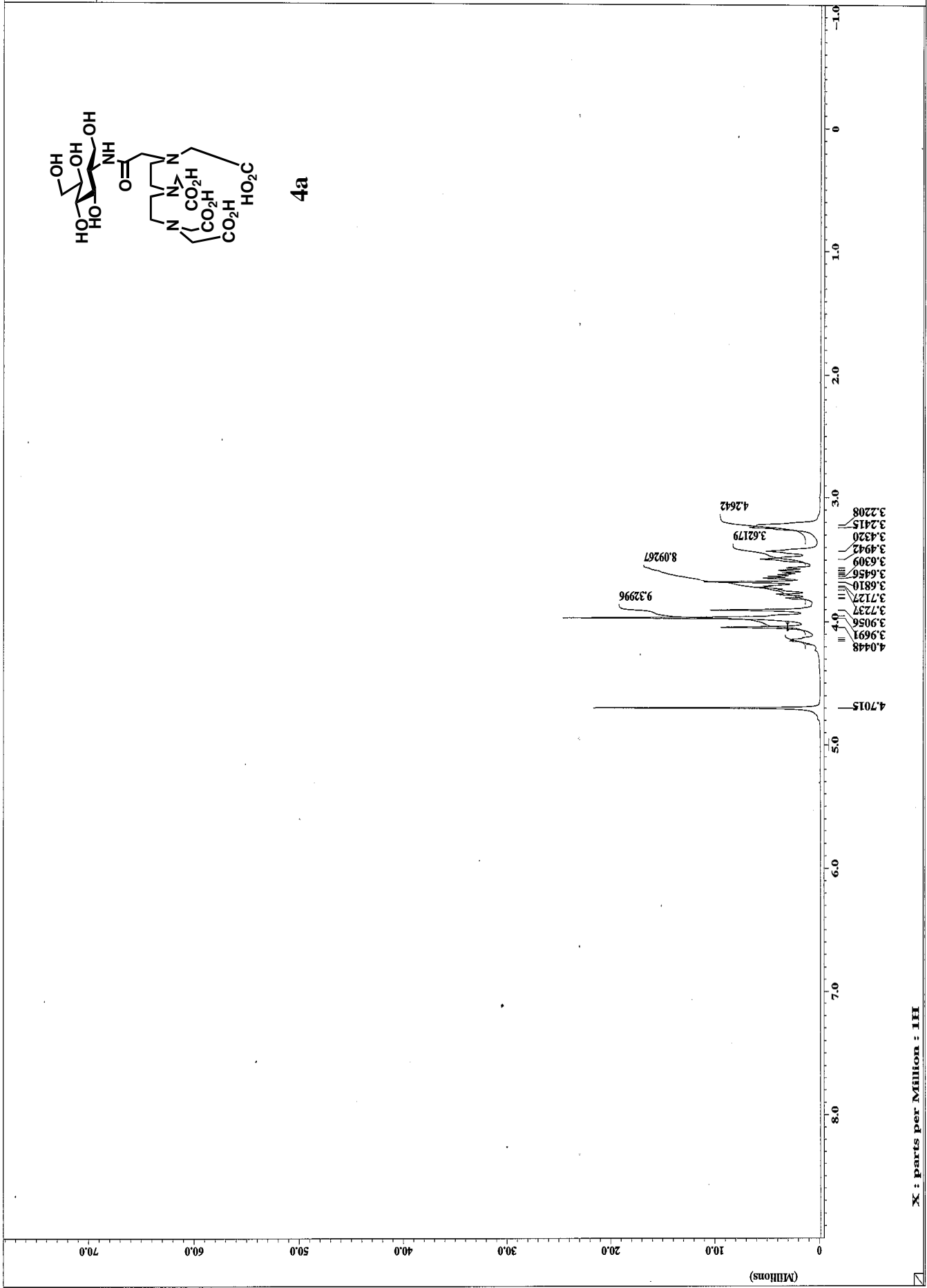
(Billions)

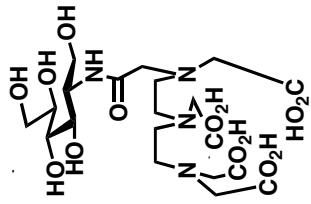




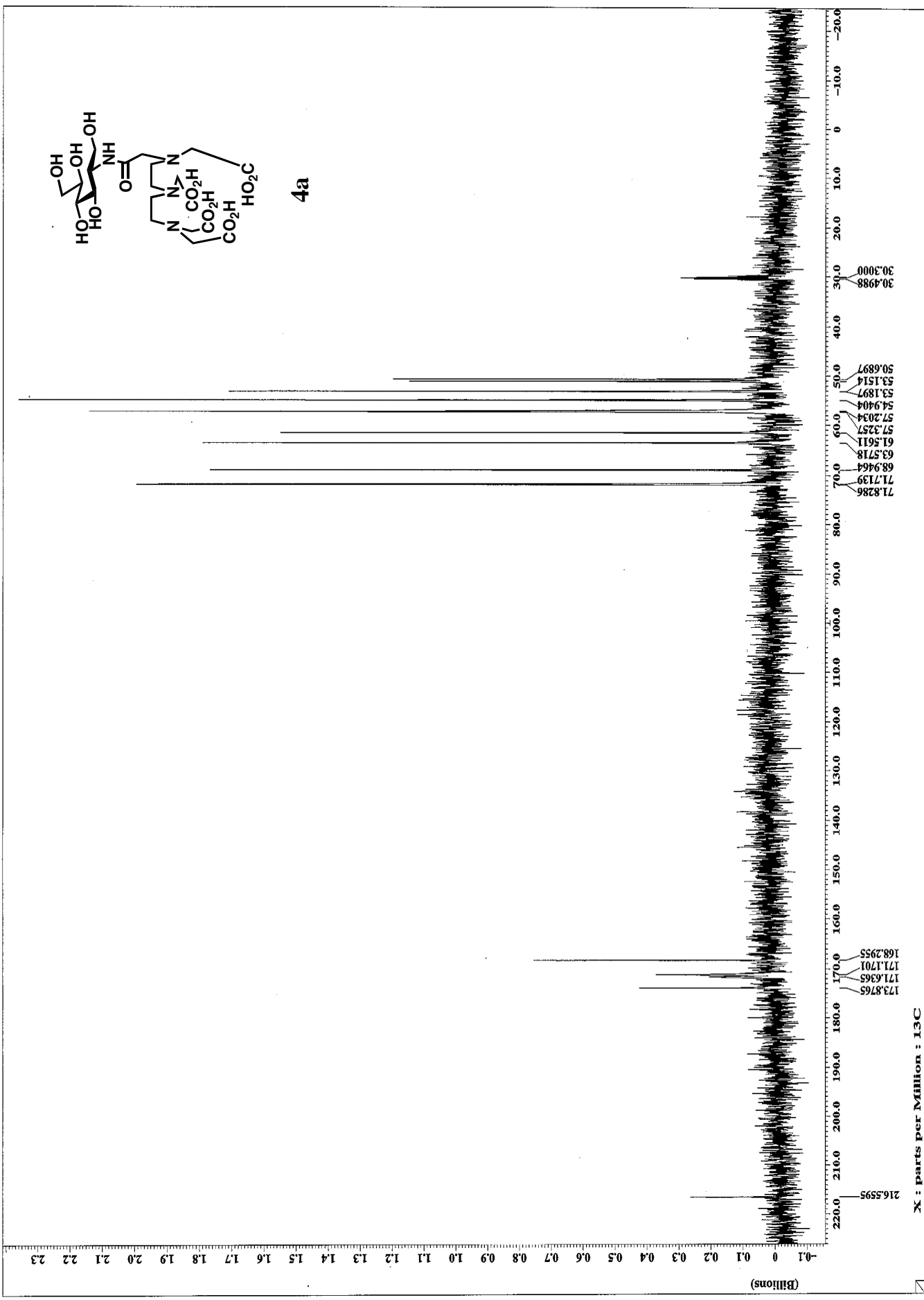


4a



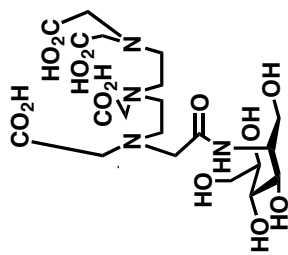


4a

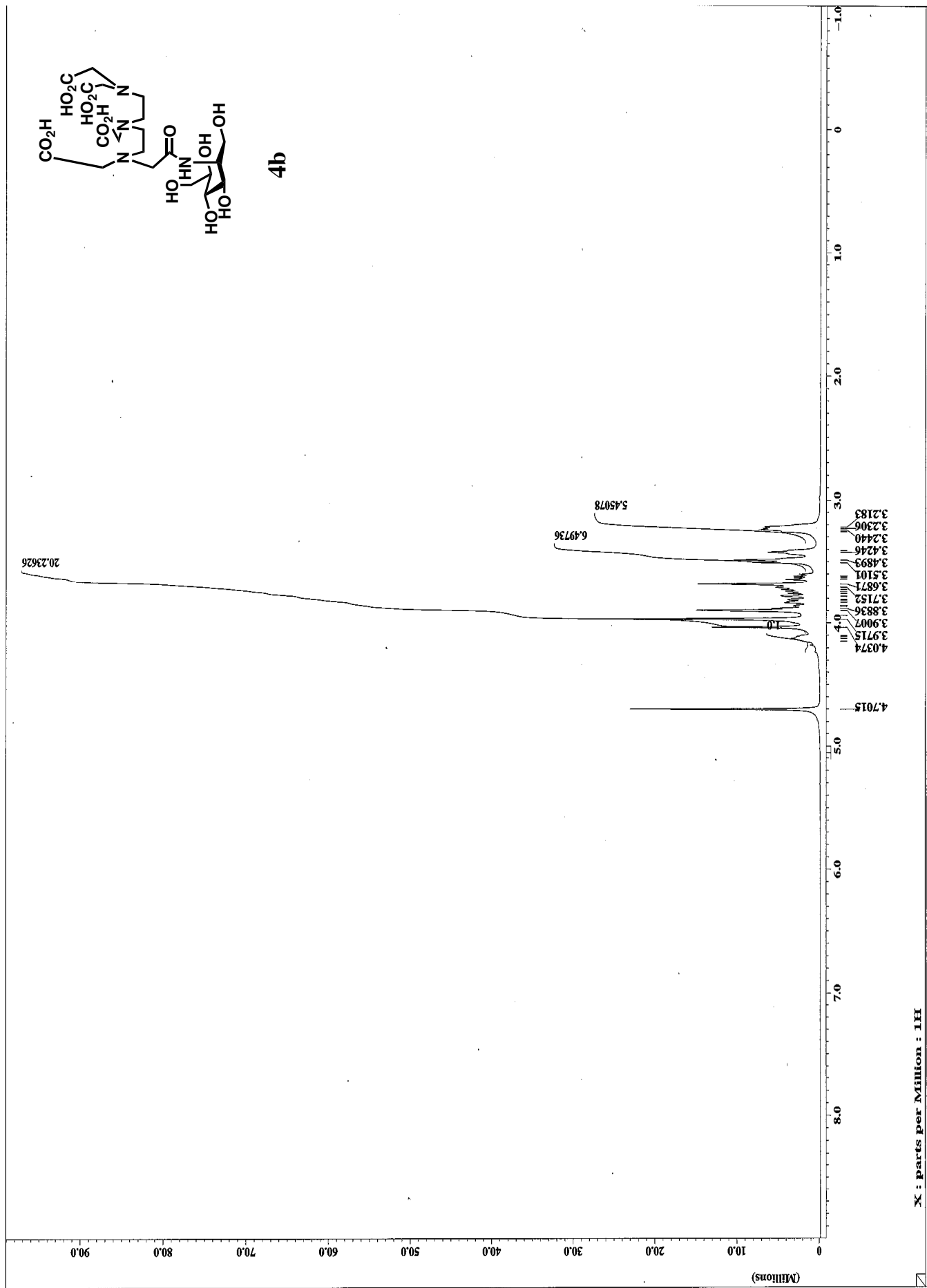


X : parts per Million : 13C

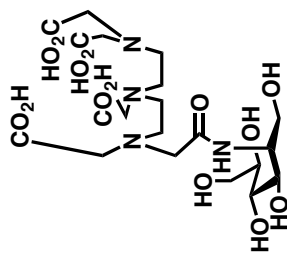
(Billions)



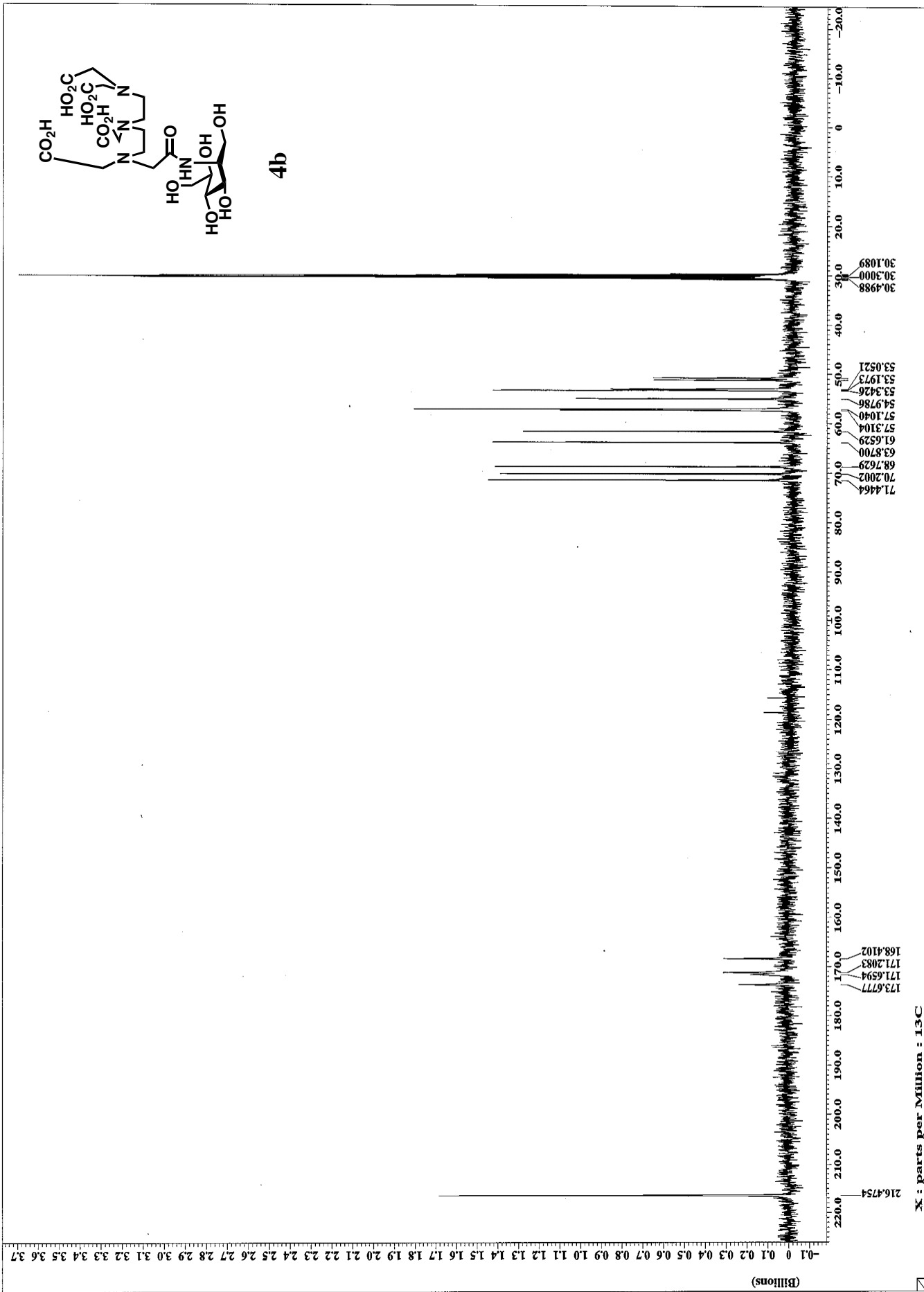
4b



X : parts per Million : 1H



4b



X : parts per Million : 13C

(Billions)