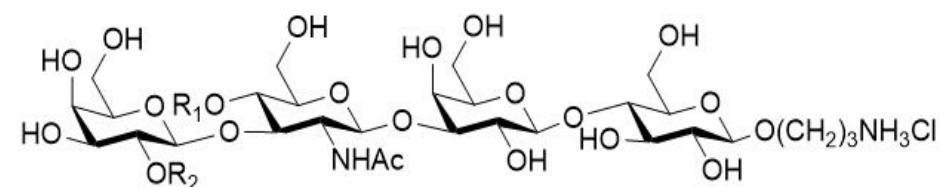
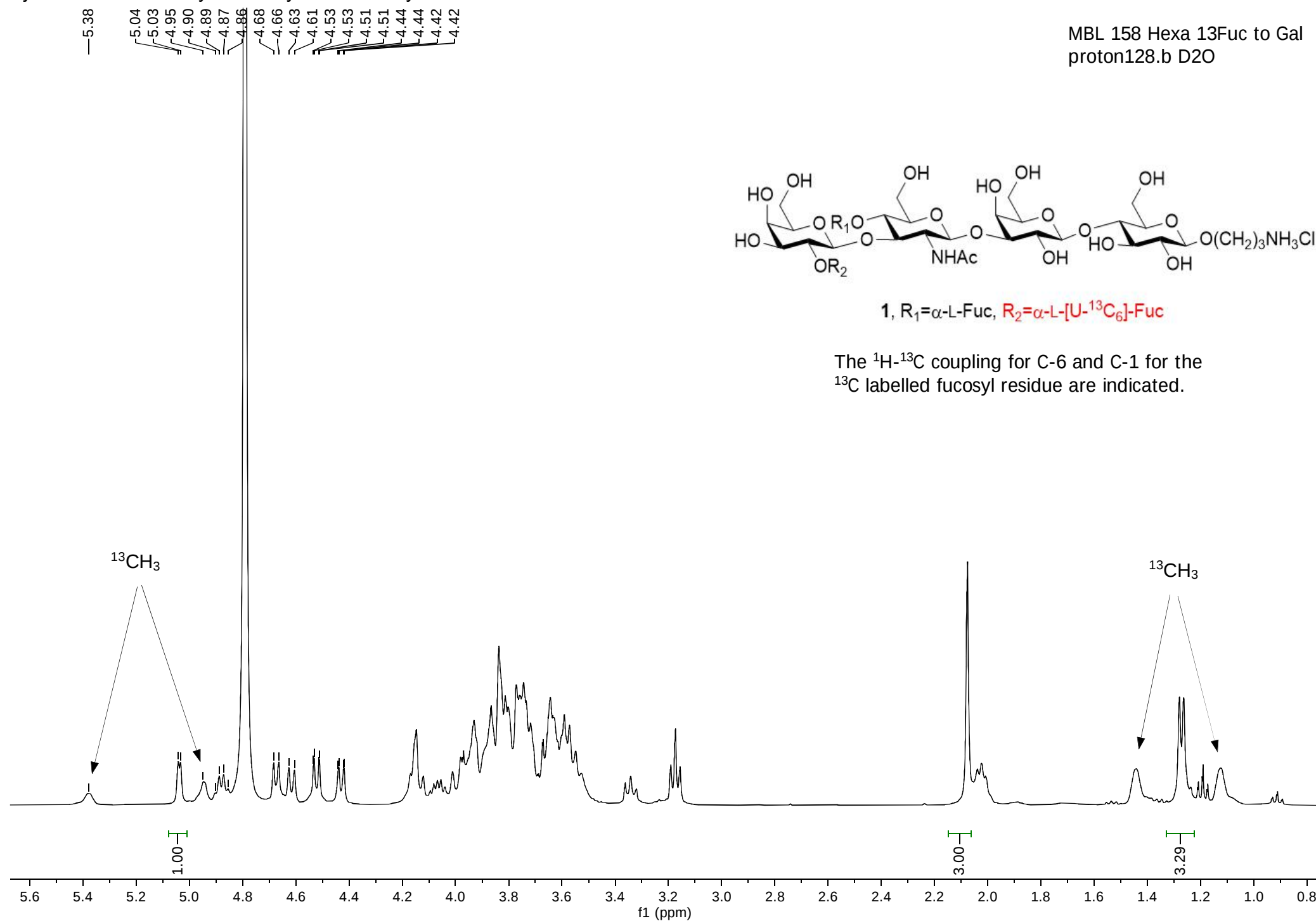


MBL 158 Hexa 13Fuc to Gal
proton128.b D2O



1, $R_1 = \alpha\text{-L-Fuc}$, $R_2 = \alpha\text{-L-[U-}^{13}\text{C}_6\text{]-Fuc}$

The ^1H - ^{13}C coupling for C-6 and C-1 for the
 ^{13}C labelled fucosyl residue are indicated.

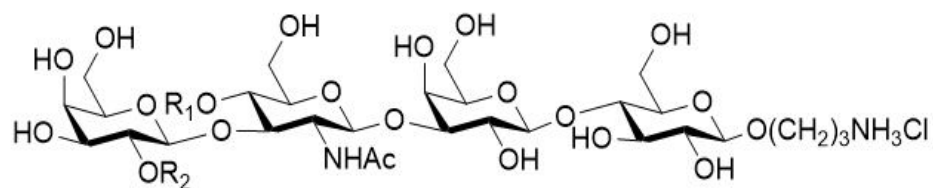


MBL 158 Hexa ¹³Fuc to Gal
C13CPD_64.b D2O

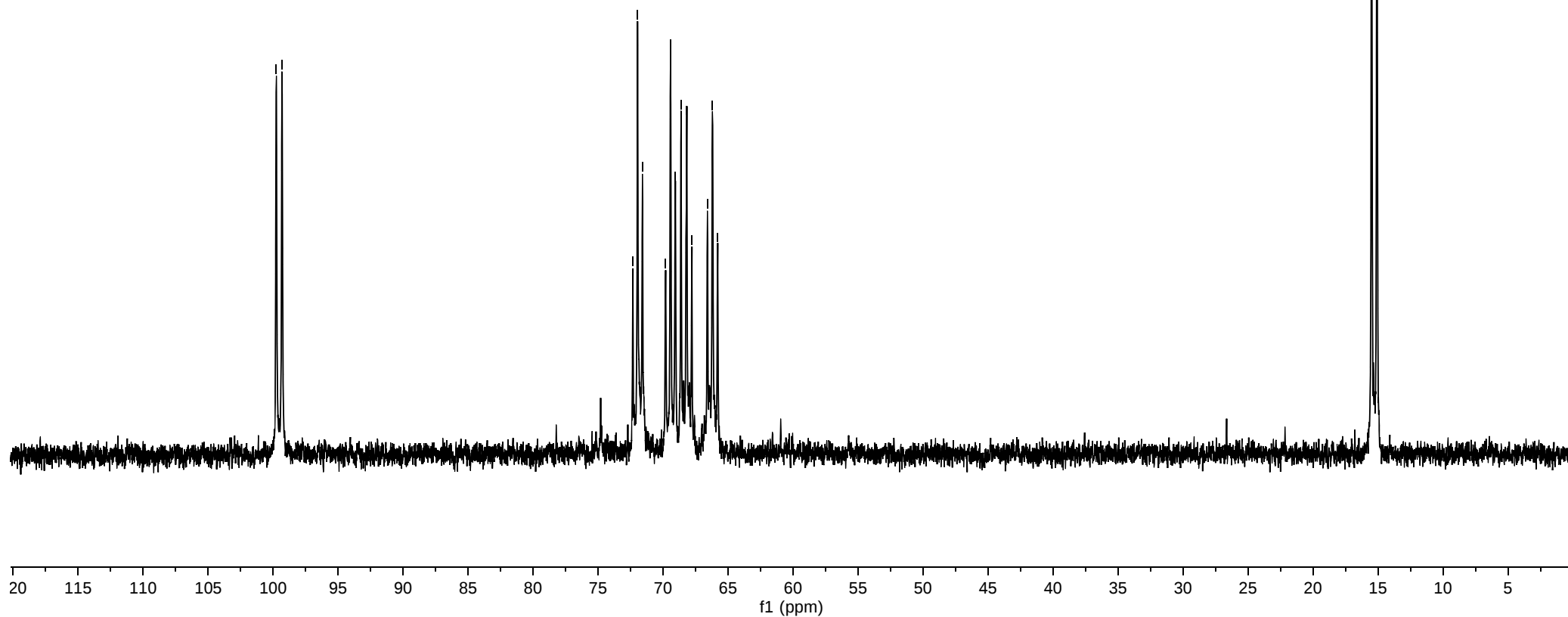
72.33
71.96
71.59
69.81
69.43
69.06
68.62
68.19
67.79
66.59
66.20
65.81

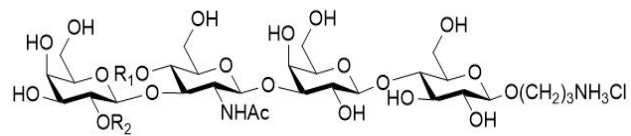
15.50
15.09

Only the signal set for the labelled fucosyl
residue is visible (including ¹³C-¹³C
couplings) - remaining signal are mainly
hidden in the noise.



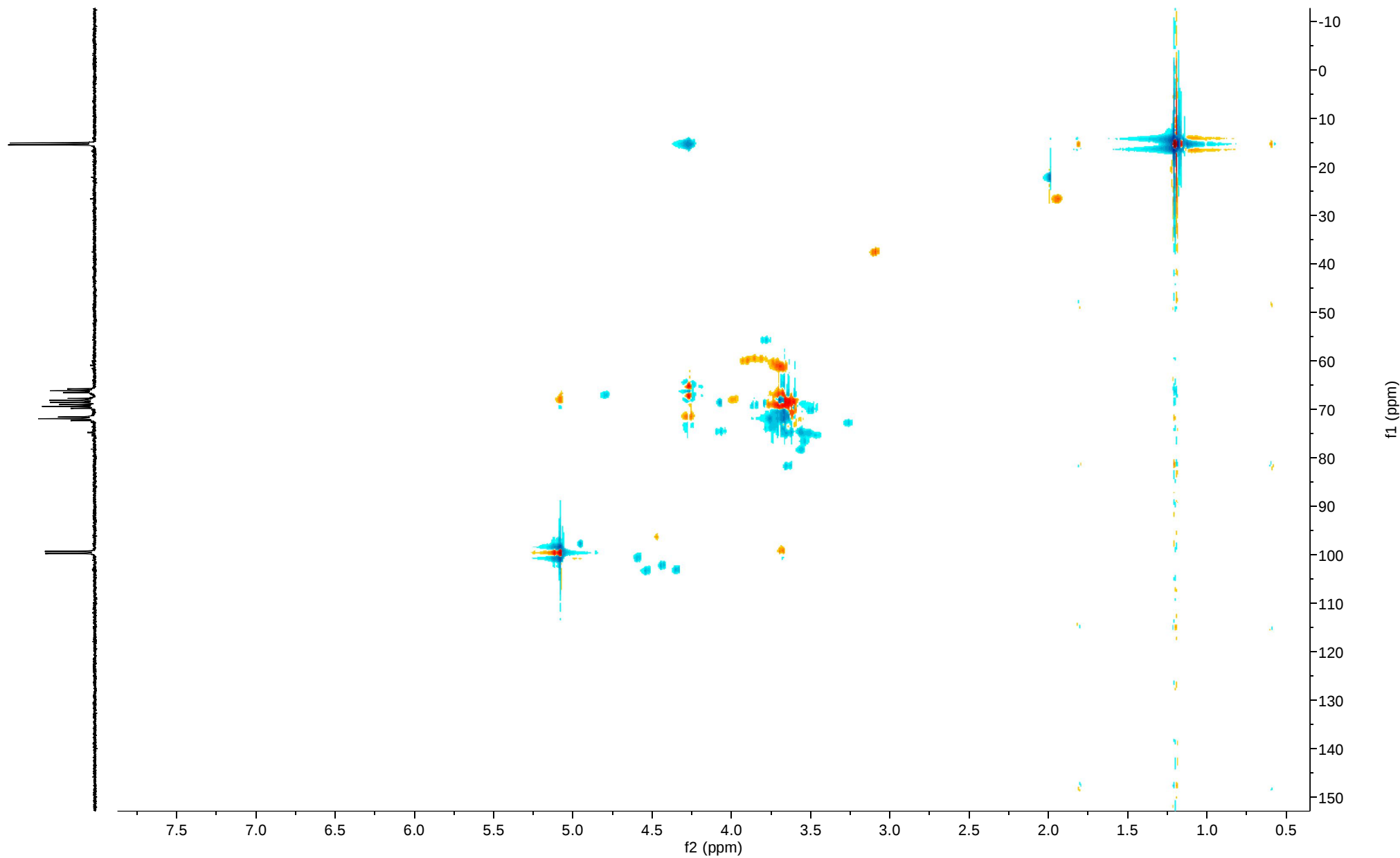
1, R₁=α-L-Fuc, R₂=α-L-[U-¹³C₆]-Fuc





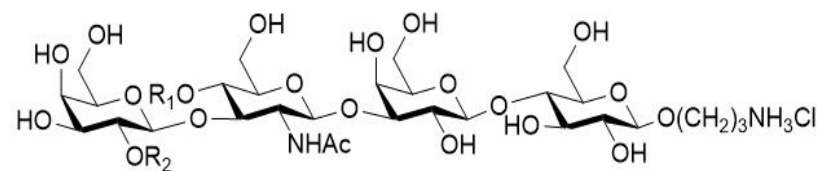
1, $R_1 = \alpha\text{-L-Fuc}$, $R_2 = \alpha\text{-L-[U-}^{13}\text{C}_6\text{]-Fuc}$

MBL 158 Hexa ^{13}C Fuc to Gal
HSQC.b D2O

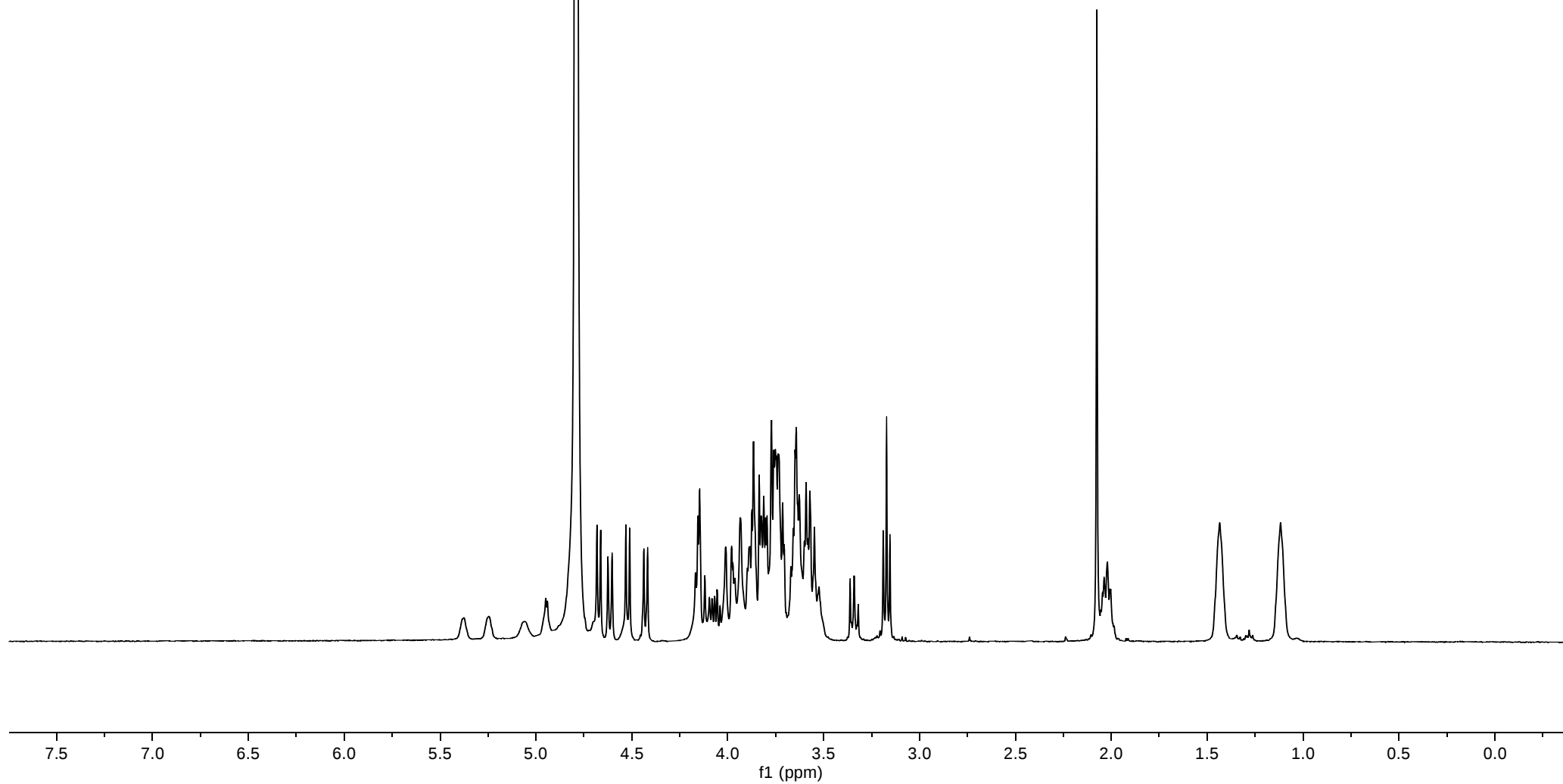


MBL 13C Hexa
proton128.b D2O

The ^1H - ^{13}C coupling for C-6 and C-1 for the two ^{13}C labelled fucosyl residues are clearly visible.

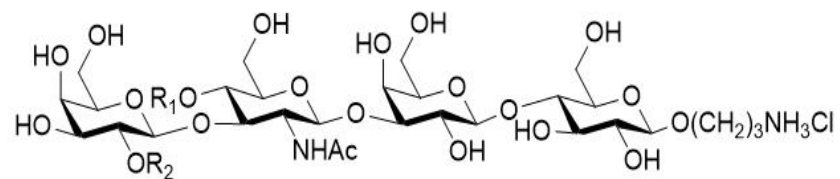


2, $R_1, R_2 = \alpha\text{-L-[U-}^{13}\text{C}_6\text{]-Fuc}$

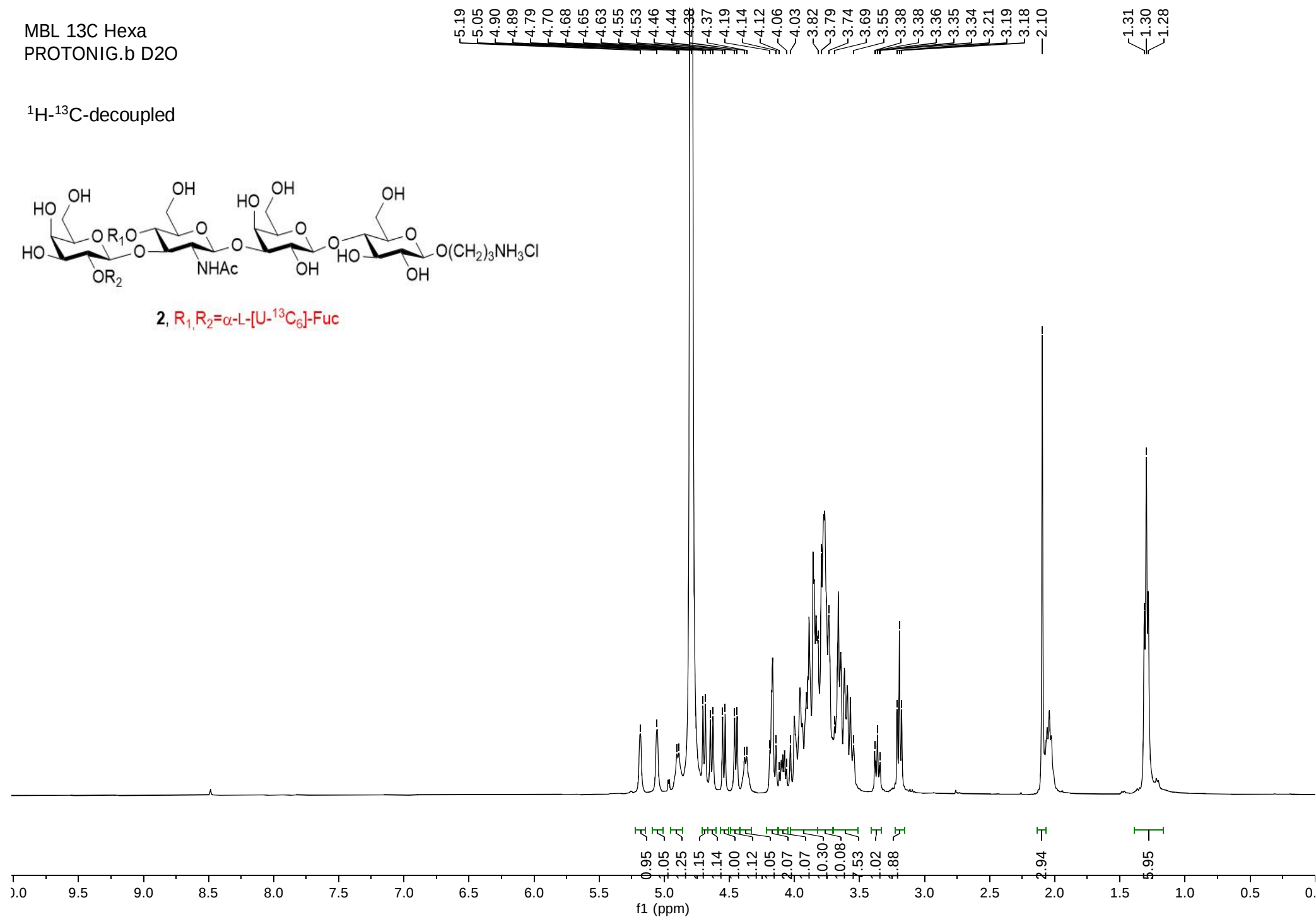


MBL 13C Hexa
PROTONIG.b D2O

^1H - ^{13}C -decoupled



2, $R_1R_2=\alpha\text{-L-[U-}^{13}\text{C}_6\text{]-Fuc}$

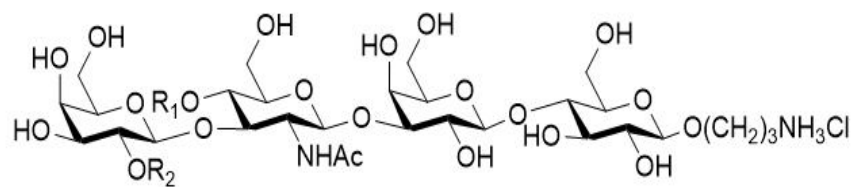


MBL 13C Hexa
C13CPD_64.b D2O

99.76
99.32
97.99
97.54

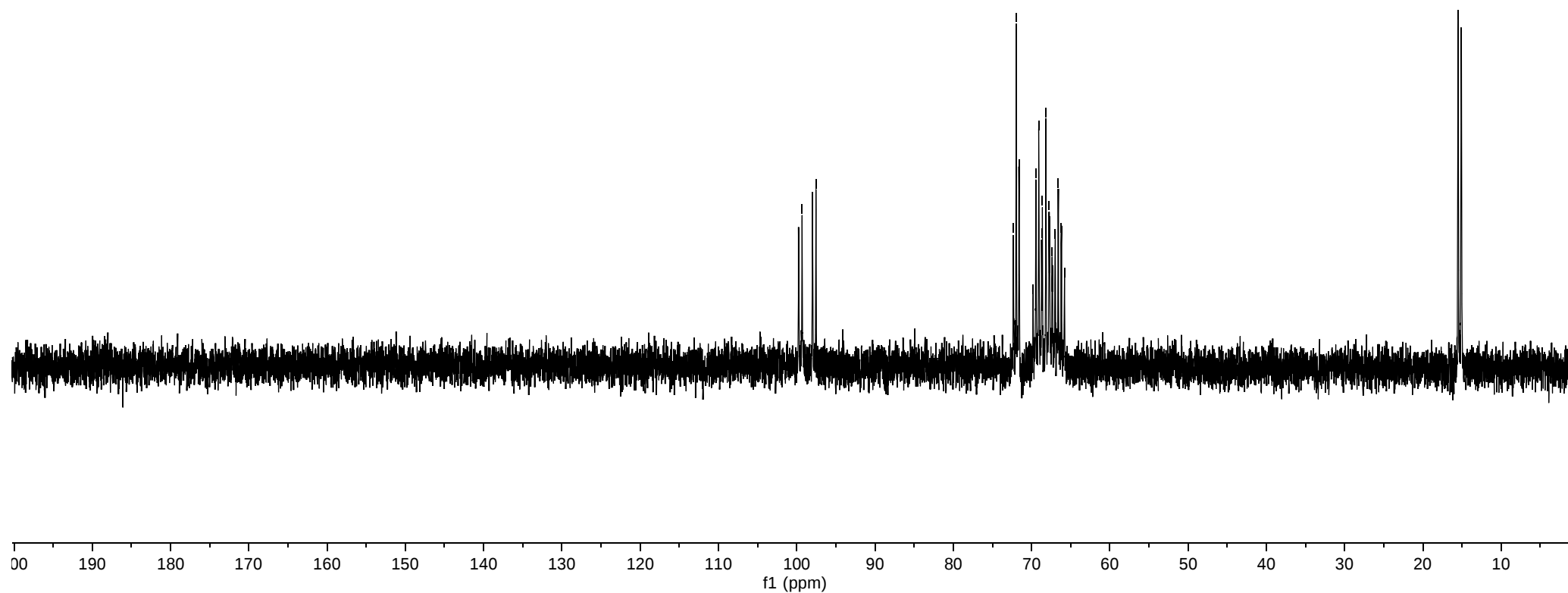
72.33
71.97
71.60
69.82
69.44
69.08
68.72
68.62
68.17
67.77
67.38
66.99
66.60
66.20
65.80

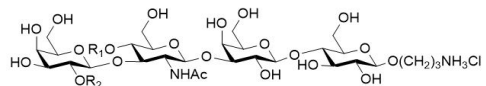
15.51
15.10



2, $R_1, R_2 = \alpha\text{-L-[U-}^{13}\text{C}_6\text{]-Fuc}$

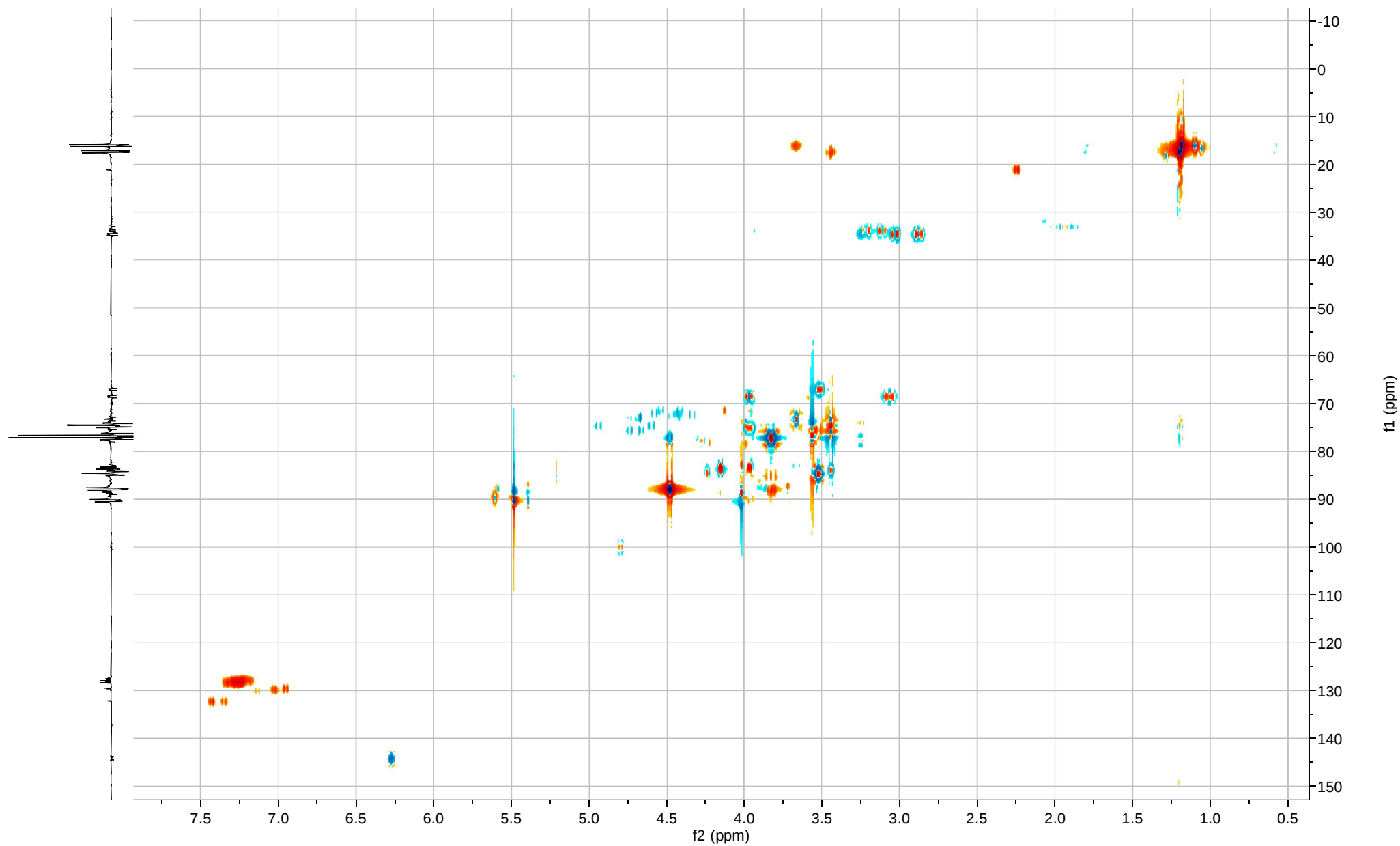
Only the two sets of labelled fucosyl residues are visible (including ^{13}C - ^{13}C couplings) - remaining signal are mainly hidden in the noise.

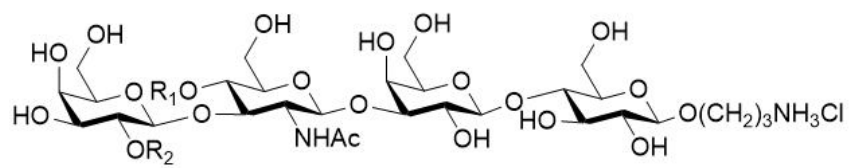




2, R₁, R₂ = α -L-[U-¹³C₆]-Fuc

MBL 13C-Fuc 20 mg
HSQC.b CDCl₃



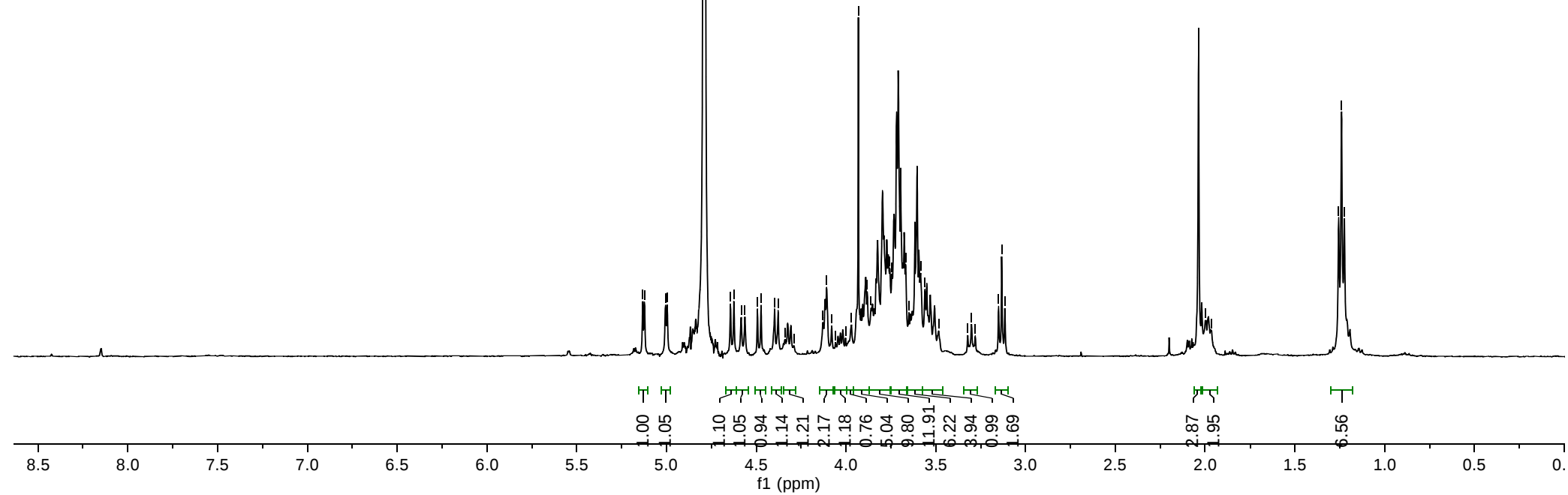


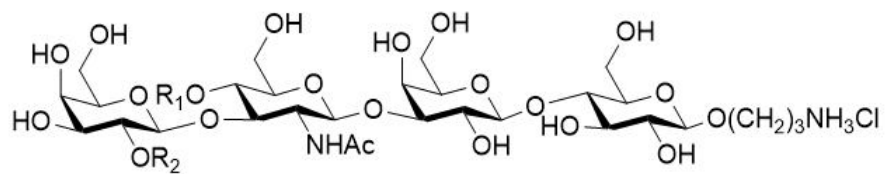
3, $R_1, R_2 = \alpha\text{-L-Fuc}$

PROTON.b D2O

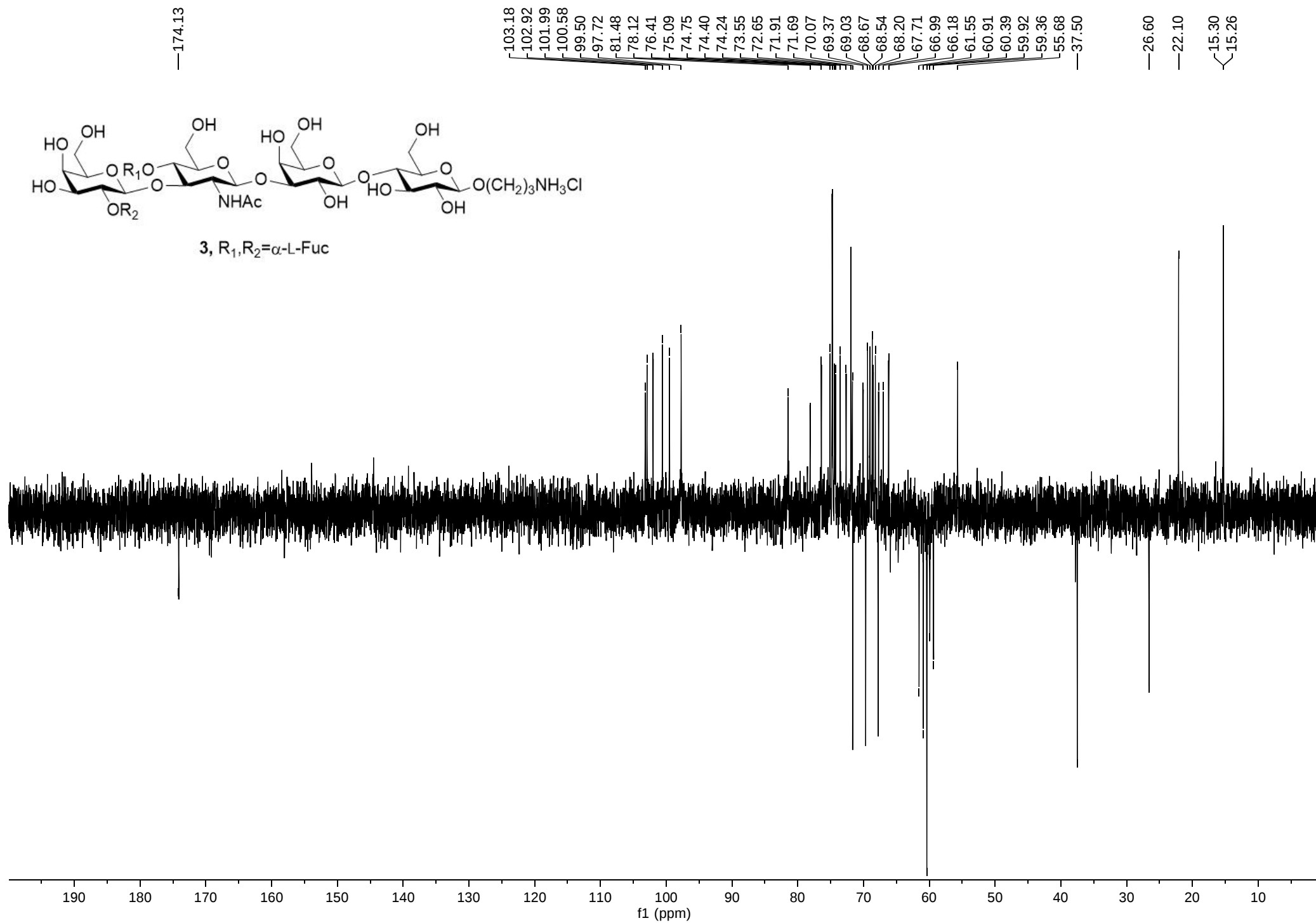
5.13
5.12
5.01
5.00
4.64
4.62
4.58
4.56
4.49
4.47
4.40
4.38
4.34
4.29
4.13
4.11
4.08
4.06
4.00
3.97
3.93
3.88
3.86
3.76
3.74
3.67
3.65
3.59
3.56
3.48
3.32
3.30
3.28
3.15
3.13
3.12
2.04
2.00
1.96

1.26
1.24
1.22

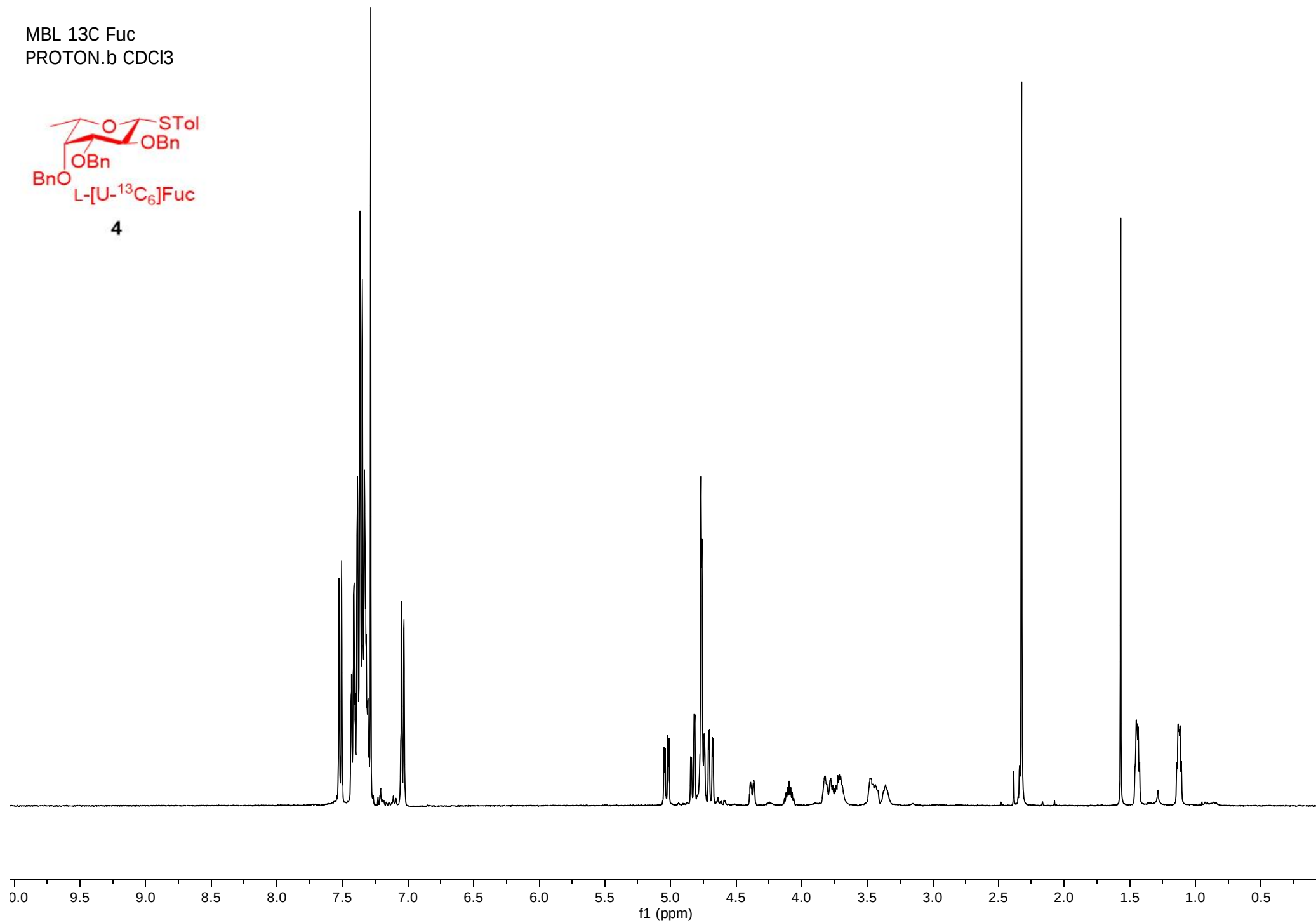
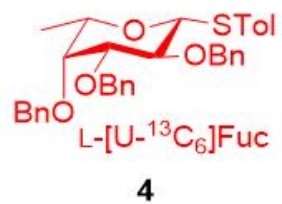




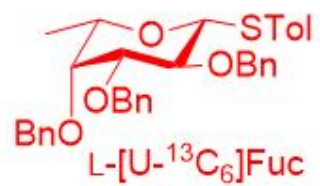
3, $R_1, R_2 = \alpha\text{-L-Fuc}$



MBL 13C Fuc
PROTON.b CDCl3



MBL 13C Fuc
PROTONIG.b CDCl3



4

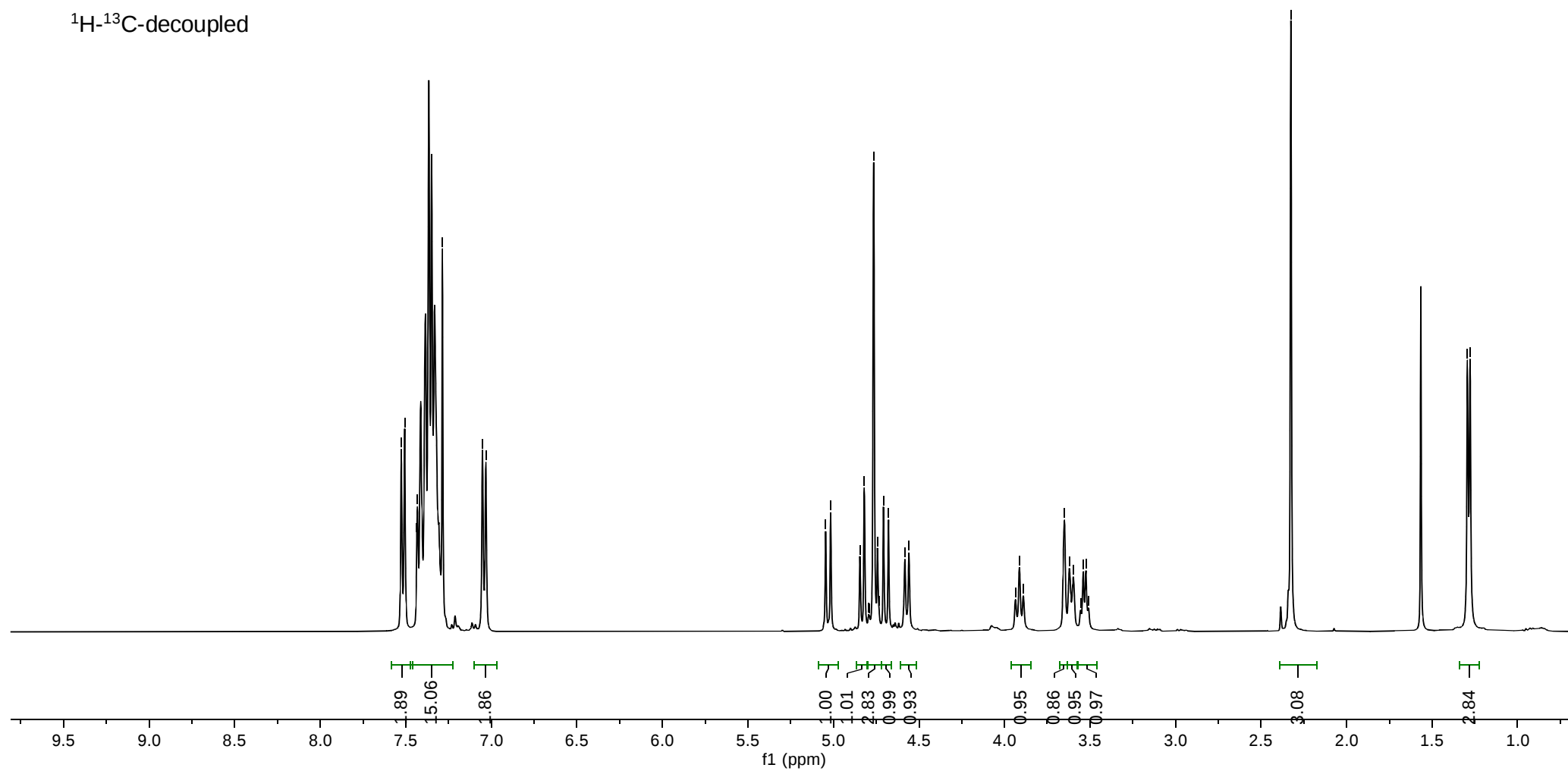
¹H-¹³C-decoupled

7.53
7.51
7.44
7.43
7.29
7.05
7.03

5.05
5.02
4.84
4.82
4.79
4.76
4.74
4.73
4.71
4.68
4.58
4.56
3.94
3.91
3.89
3.65
3.62
3.60
3.56
3.54
3.52
3.51

2.33

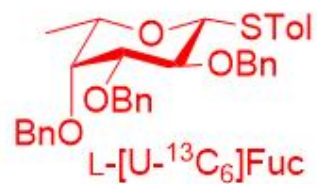
1.29
1.28



132.20
129.51
128.44
128.36
128.33
128.15
127.96
127.69
127.58

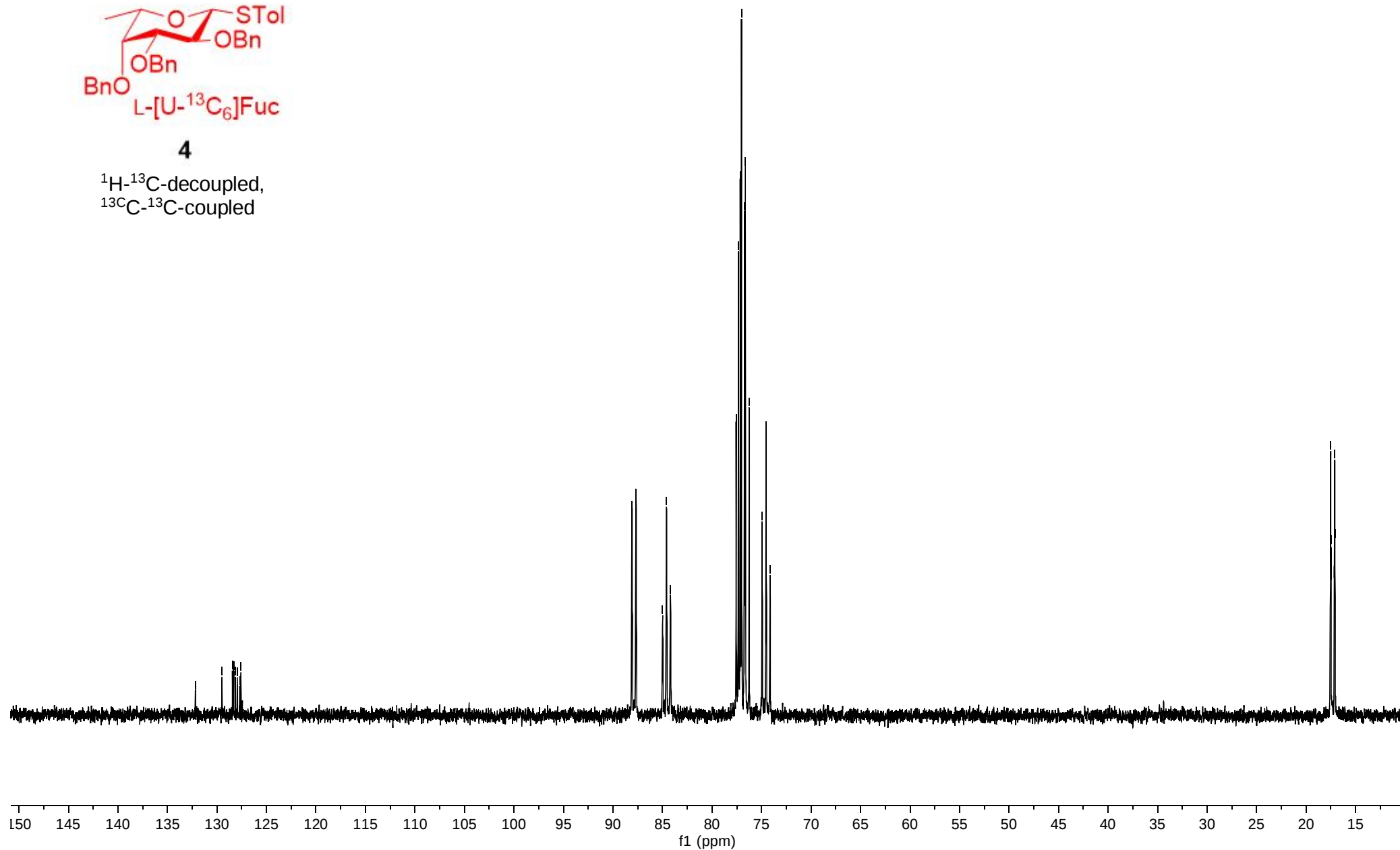
88.09
87.68
84.99
84.60
84.20
77.56
77.34
77.15
77.14
77.02
76.74
76.70
76.63
76.25
74.94
74.53
74.14

17.55
17.51
17.47
17.14
17.10
17.07



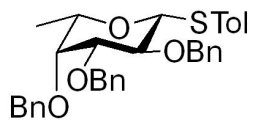
4

¹H-¹³C-decoupled,
¹³C-¹³C-coupled



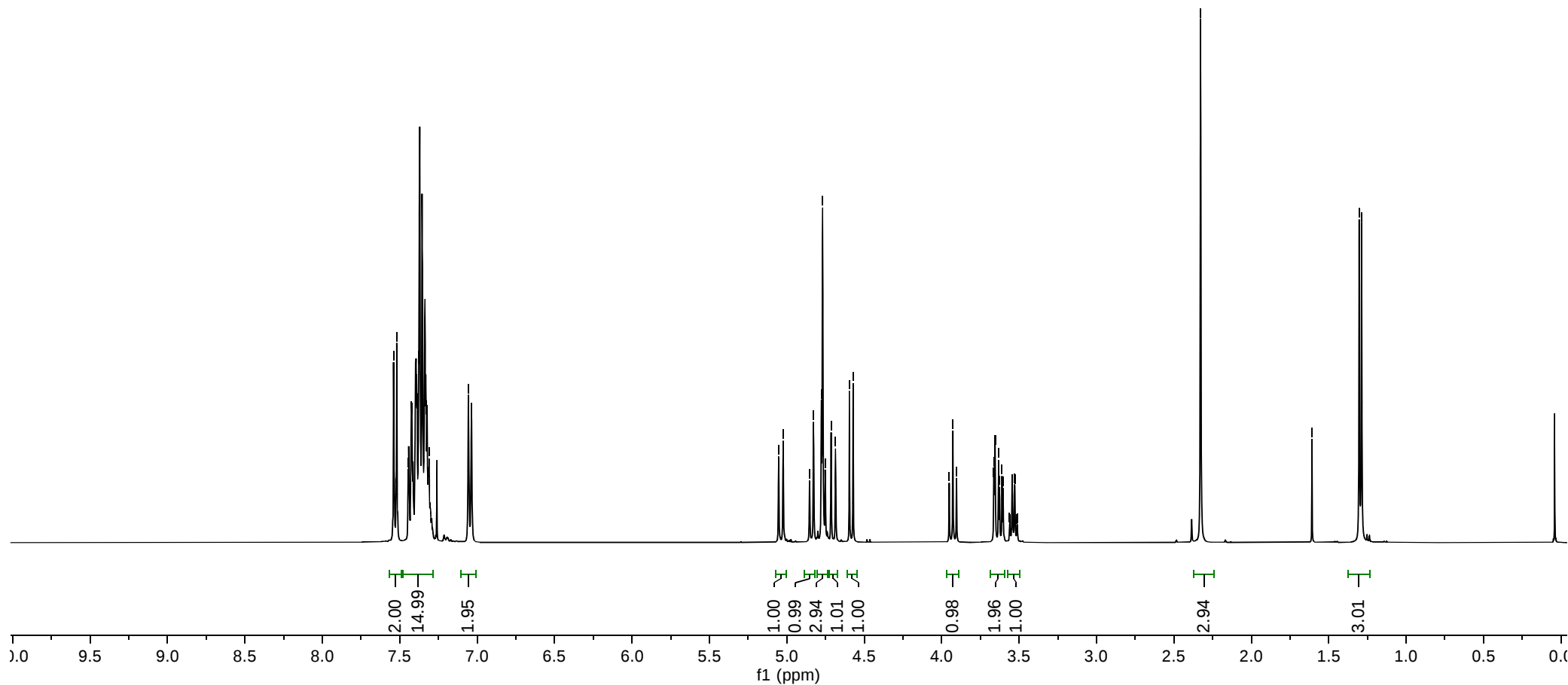
ANC fucose donor 2.10.fid
 ANC fucose donor 2
 Proton.K CDCl3 {C:\Users\GJM\Data} GJM 11

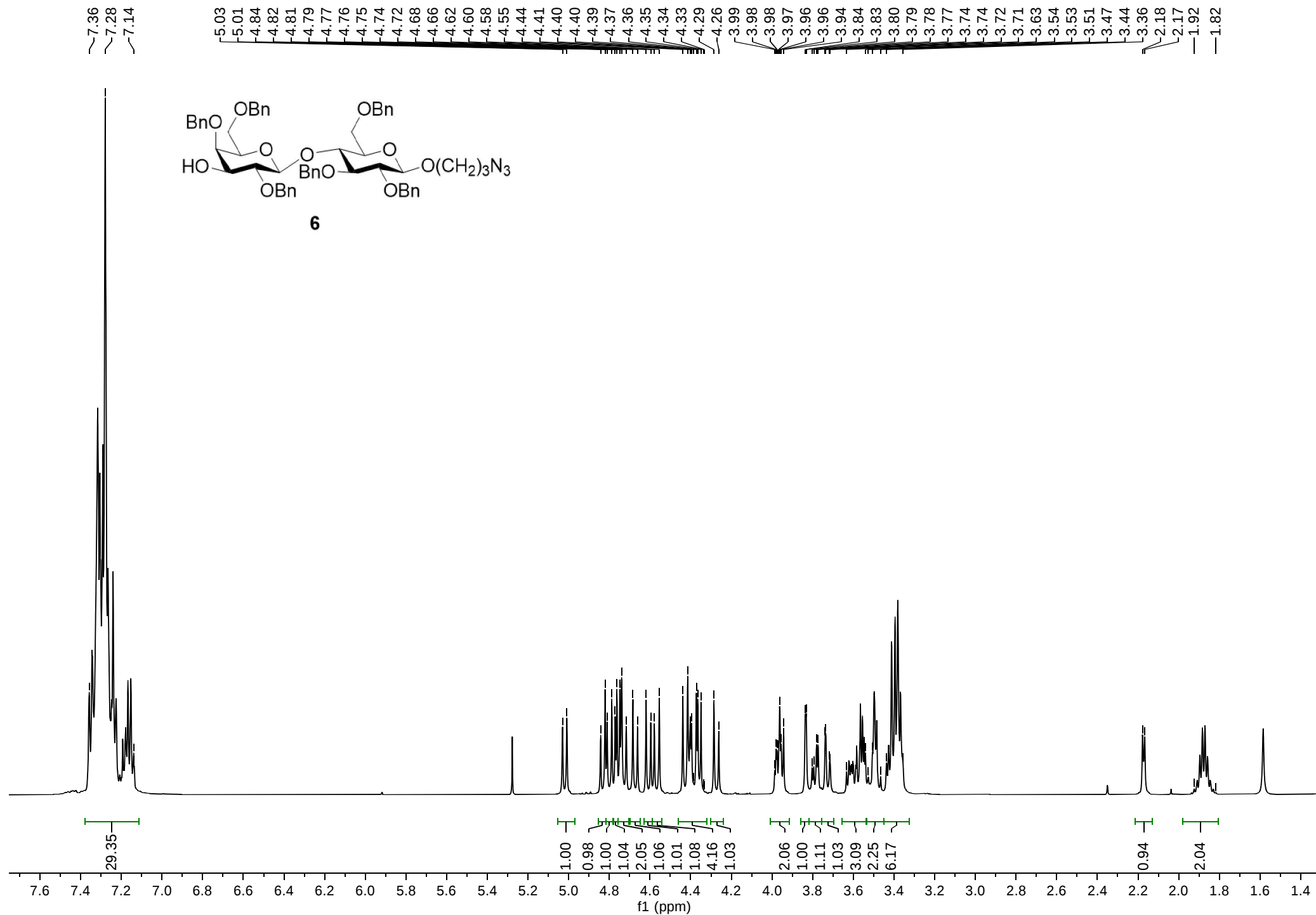
7.54
 7.52
 7.45
 7.31
 7.06
 7.04
 7.03

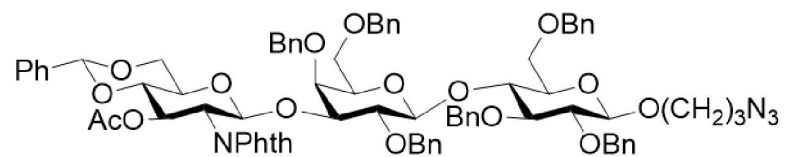


5

5.05
 5.02
 4.85
 4.83
 4.78
 4.77
 4.75
 4.71
 4.68
 4.60
 4.57
 3.95
 3.93
 3.90
 3.66
 3.66
 3.66
 3.65
 3.63
 3.63
 3.61
 3.60
 3.56
 3.56
 3.55
 3.54
 3.53
 3.53
 3.51
 3.51
 2.33
 1.61
 1.30
 1.29







14

