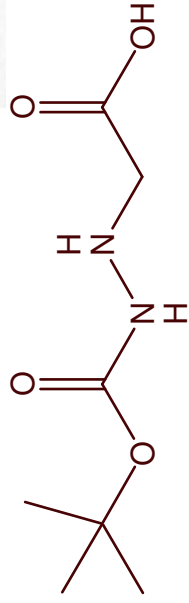


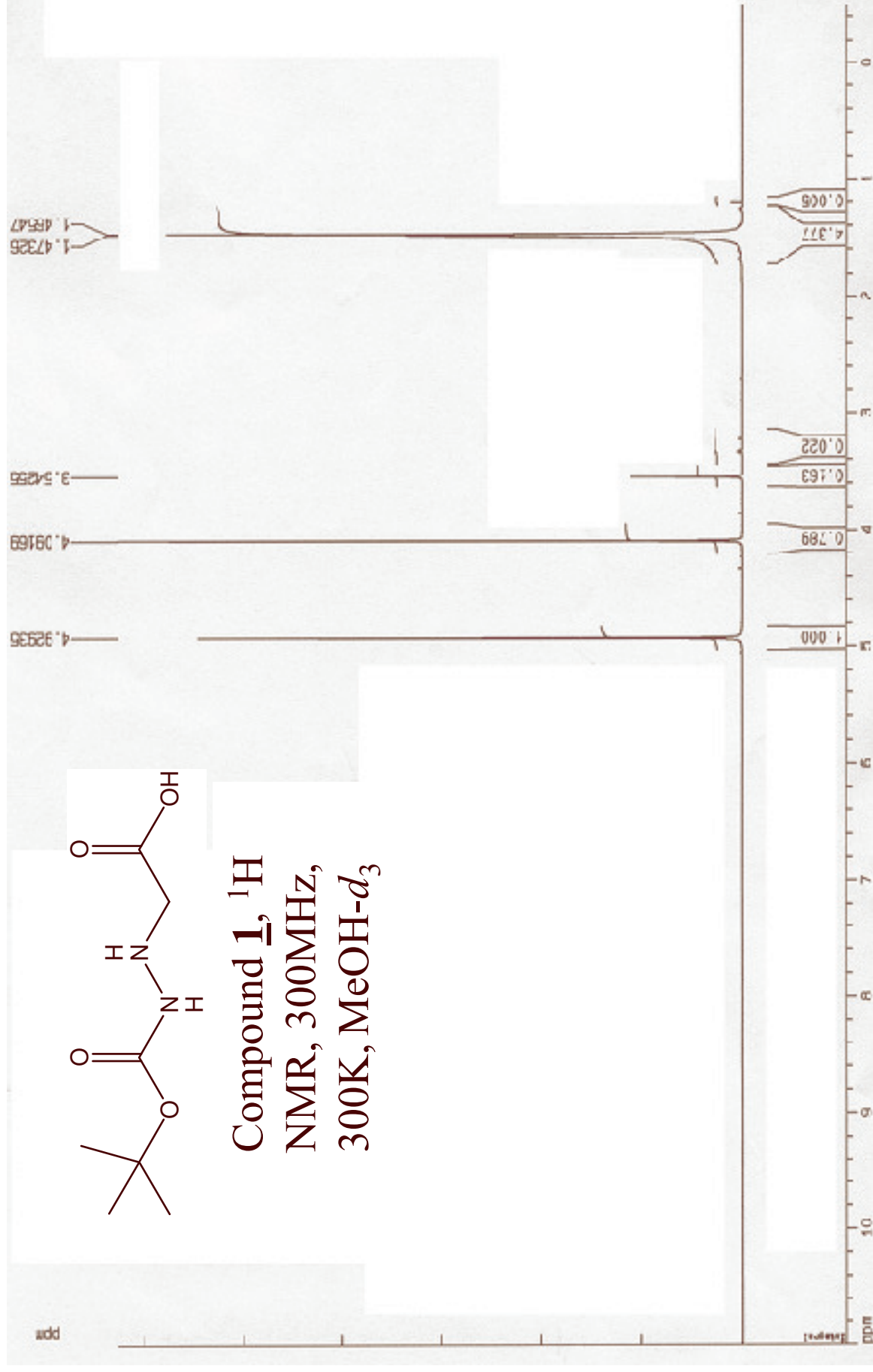
Solid phase functionalization of peptides by an α -hydrazinoacetyl group

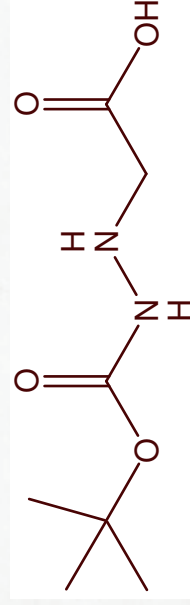
Dominique Bonnet*,^{†‡} Cyrille Grandjean,[‡] Pierre Rousselot-Pailley,[†] Pascal Joly,[†] Line Bourel-Bonnet,[†] Valérie Santraine,[‡] Hélène Gras-Masse[‡] and Oleg Melnyk*[†]

Compound 1 , ¹ H NMR, 300MHz, 300K, MeOH- <i>d</i> ₃	S2
Compound 1 , ¹³ C NMR, 75MHz, 300K, MeOH- <i>d</i> ₃	S3
Compound 1 , Maldi-TOF, matrix: 2,5-dihydroxybenzoic acid	S4
Compound 2 , ¹ H NMR, 300MHz, 300K, DMSO	S5
Compound 2 , ¹³ C NMR, 75MHz, 300K, DMSO	S6
Compound 2 , Maldi-TOF, matrix: 2,5-dihydroxybenzoic acid	S7
Compound 3 , ¹ H NMR, 300MHz, 300K, DMSO, Path 1	S8
Compound 3 , ¹ H NMR, 300MHz, 300K, DMSO, Path 1	S9
Compound 3 , ¹³ C NMR, 75MHz, 300K, DMSO, Path 1	S10
Compound 3 , ¹ H NMR, 300MHz, 300K, CDCl ₃ , Path 1	S11
Compound 3 , ¹ H NMR, 300MHz, 300K, CDCl ₃ , Path 2	S12
Compound 3 , ¹ H NMR, 300MHz, 300K, CD ₂ Cl ₂ , Path 2	S13
Compound 3 , ¹ H NMR, 300MHz, 300K, CD ₂ Cl ₂ , Path 2	S14
Compound 3 , Maldi-TOF, Matrix 2,5-dihydroxybenzoic acid, Path 1	S15
Compound 6a , ¹ H NMR, 300MHz, 300K, CDCl ₃	S16
Compound 6a , ¹³ C NMR, 75MHz, 300K, CDCl ₃	S17
Compound 6a , ¹ H NMR, 300MHz, 323K, CDCl ₃	S18
Compound 6b , ¹ H NMR, 300MHz, 300K, CDCl ₃	S19
Compound 6b , ¹³ C NMR, 75MHz, 300K, CDCl ₃	S20
Compound 7a , ¹ H NMR, 300MHz, 300K, CDCl ₃	S21
Compound 7a , ¹ H NMR, 300MHz, 300K, CDCl ₃	S22
Compound 7b , ¹ H NMR, 300 MHz, 300K, CDCl ₃	S23
Peptide 13 : RP-HPLC before and after purification	S24
Peptide 13 , ES-MS	S25

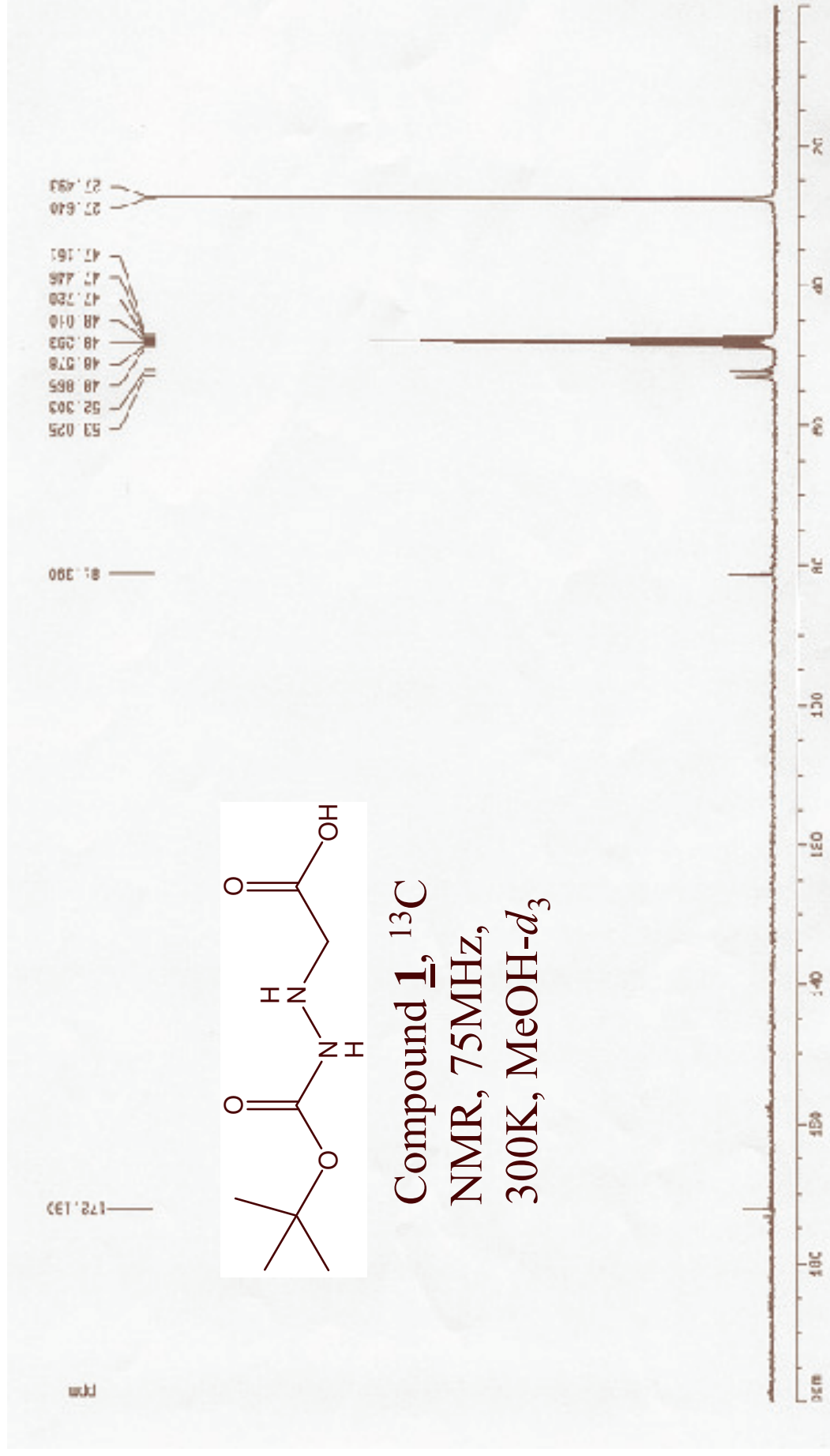


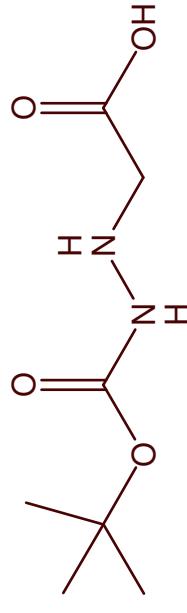
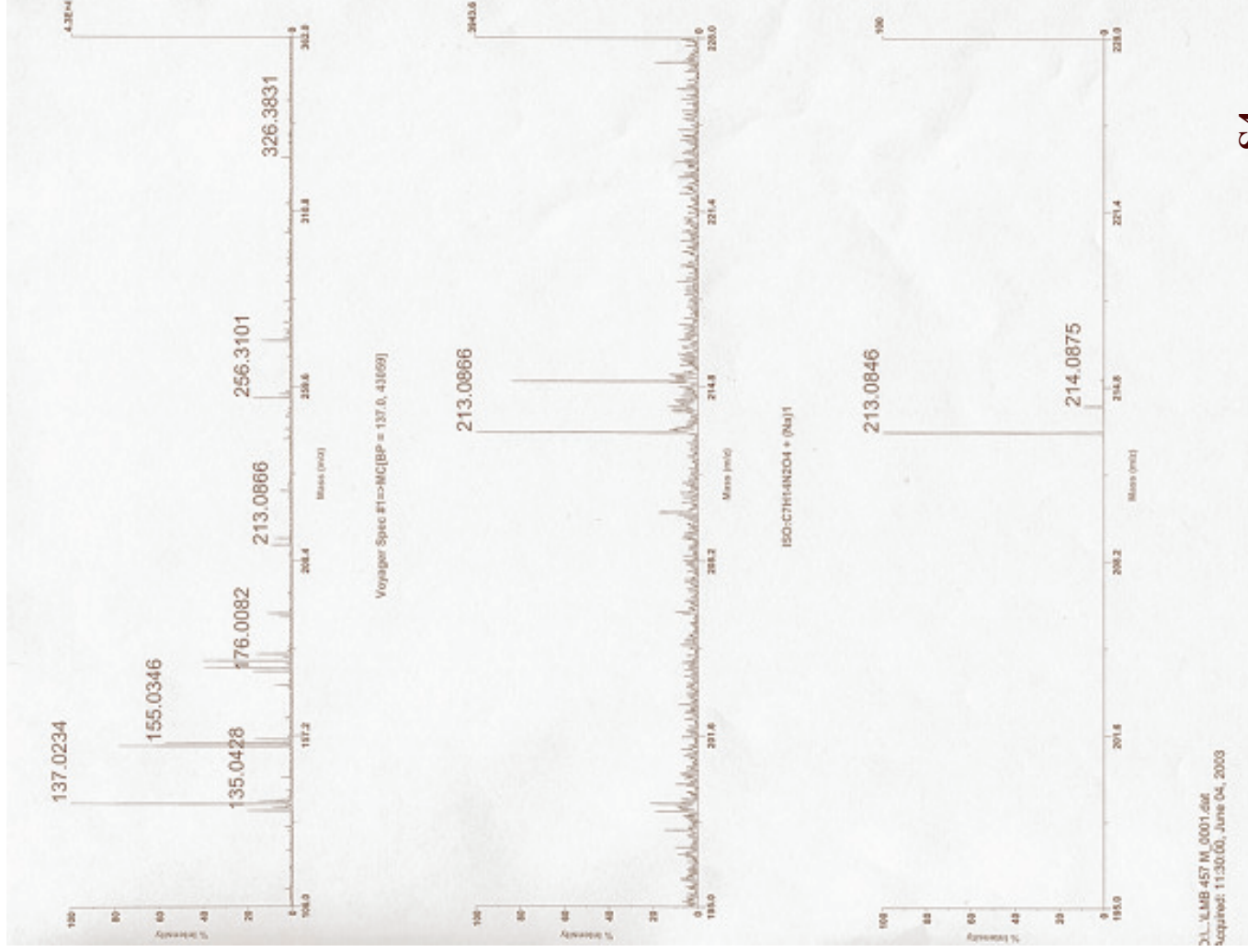
Compound **1**, ^1H
NMR, 300MHz,
300K, MeOH- d_3



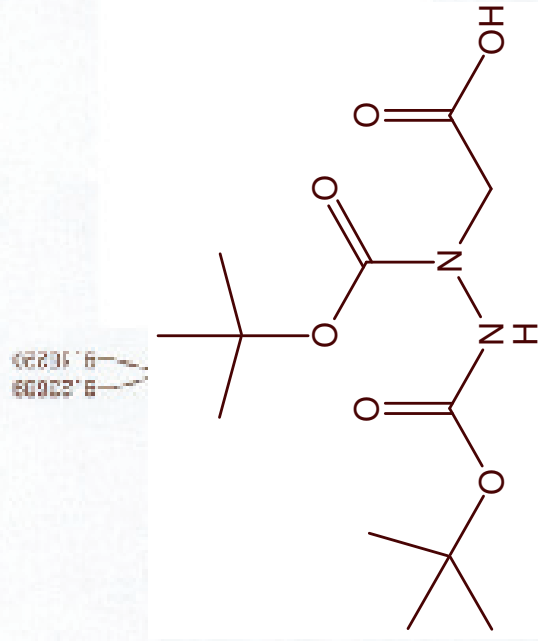


Compound **1**, ^{13}C
NMR, 75MHz,
300K, $\text{MeOH-}d_3$

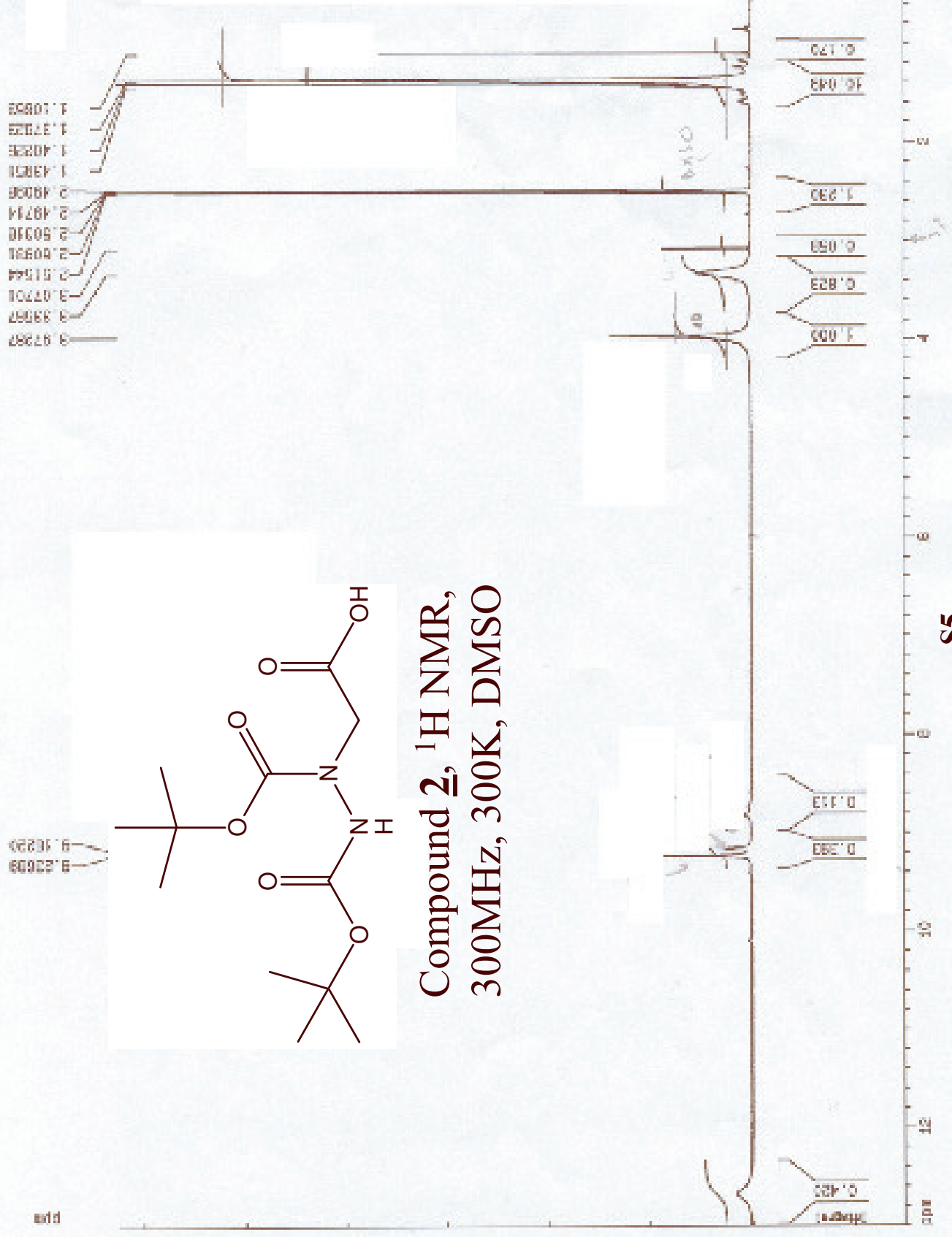


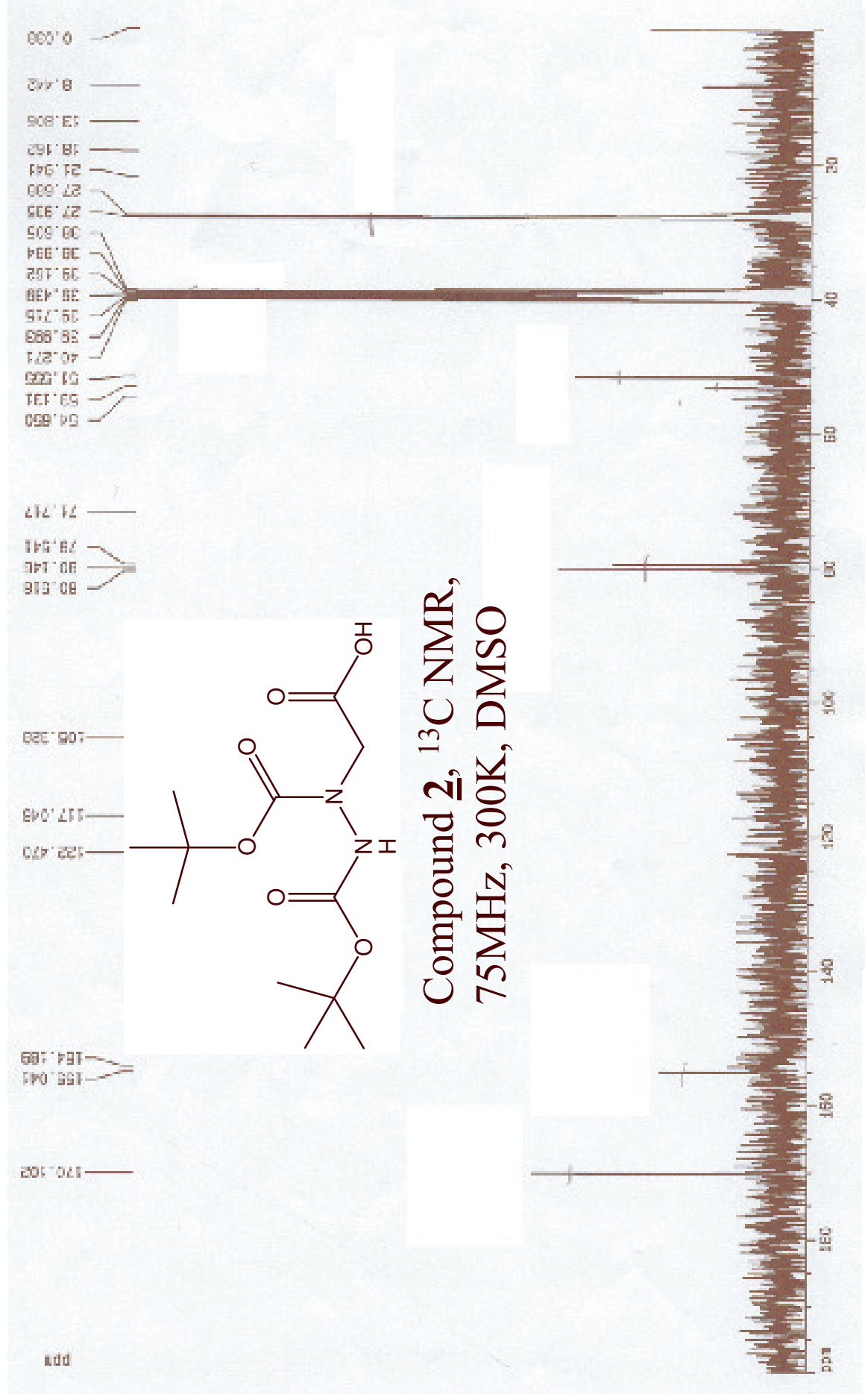


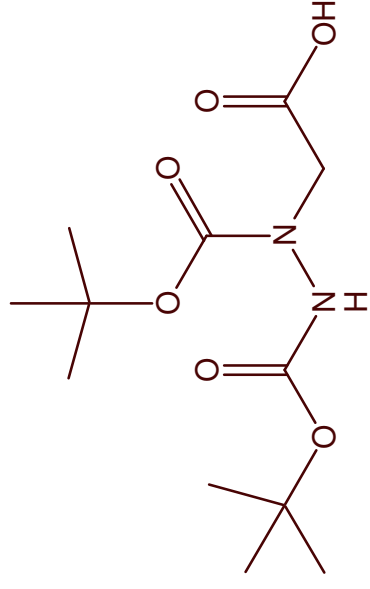
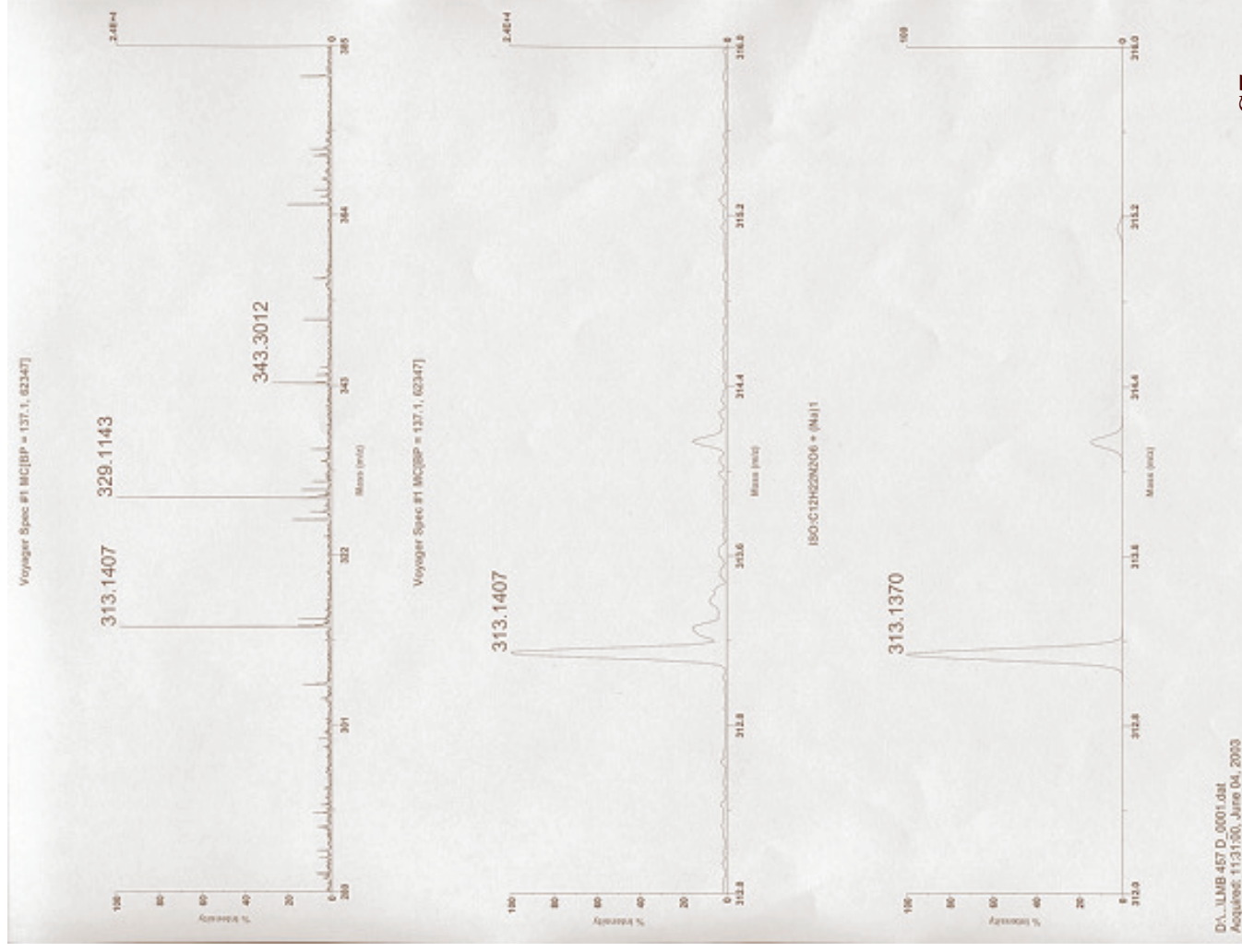
Compound **1**, Maldi-TOF, matrix: 2,5-dihydroxybenzoic acid



Compound **2**, ^1H NMR, 300MHz, 300K, DMSO



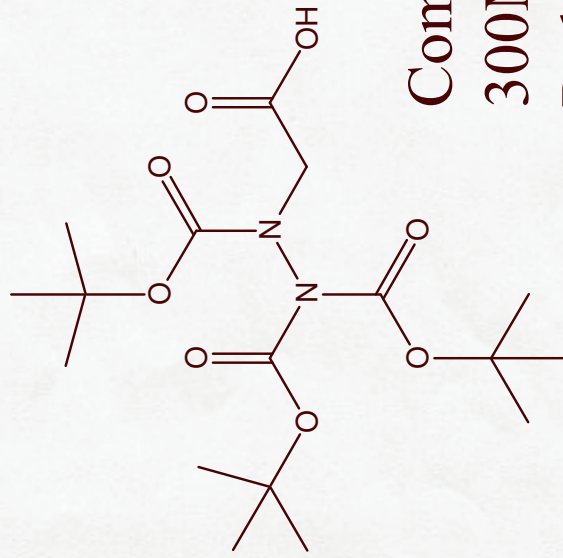




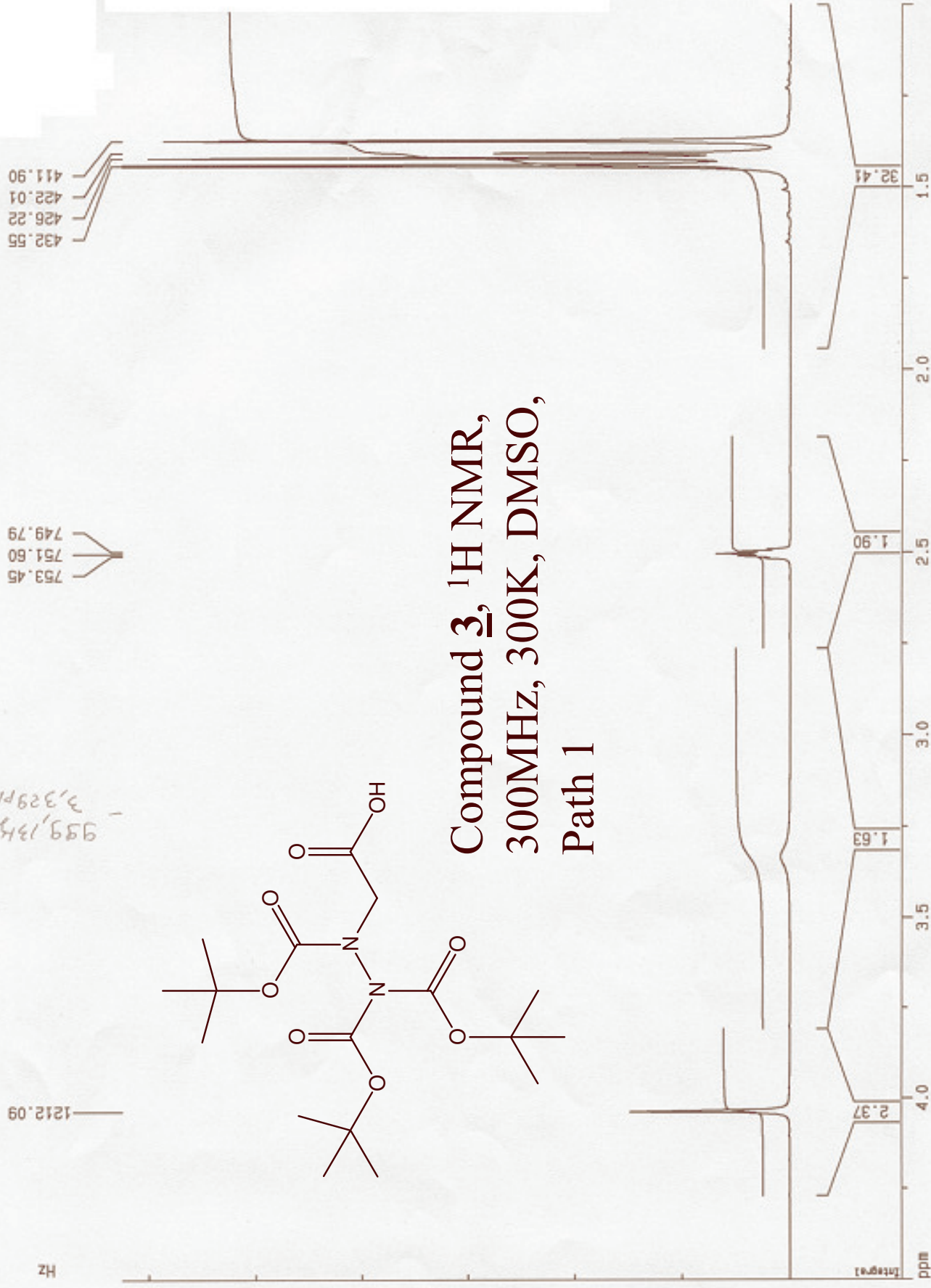
Compound 2, Maldi-TOF,
matrix: 2,5-dihydroxybenzoic
acid

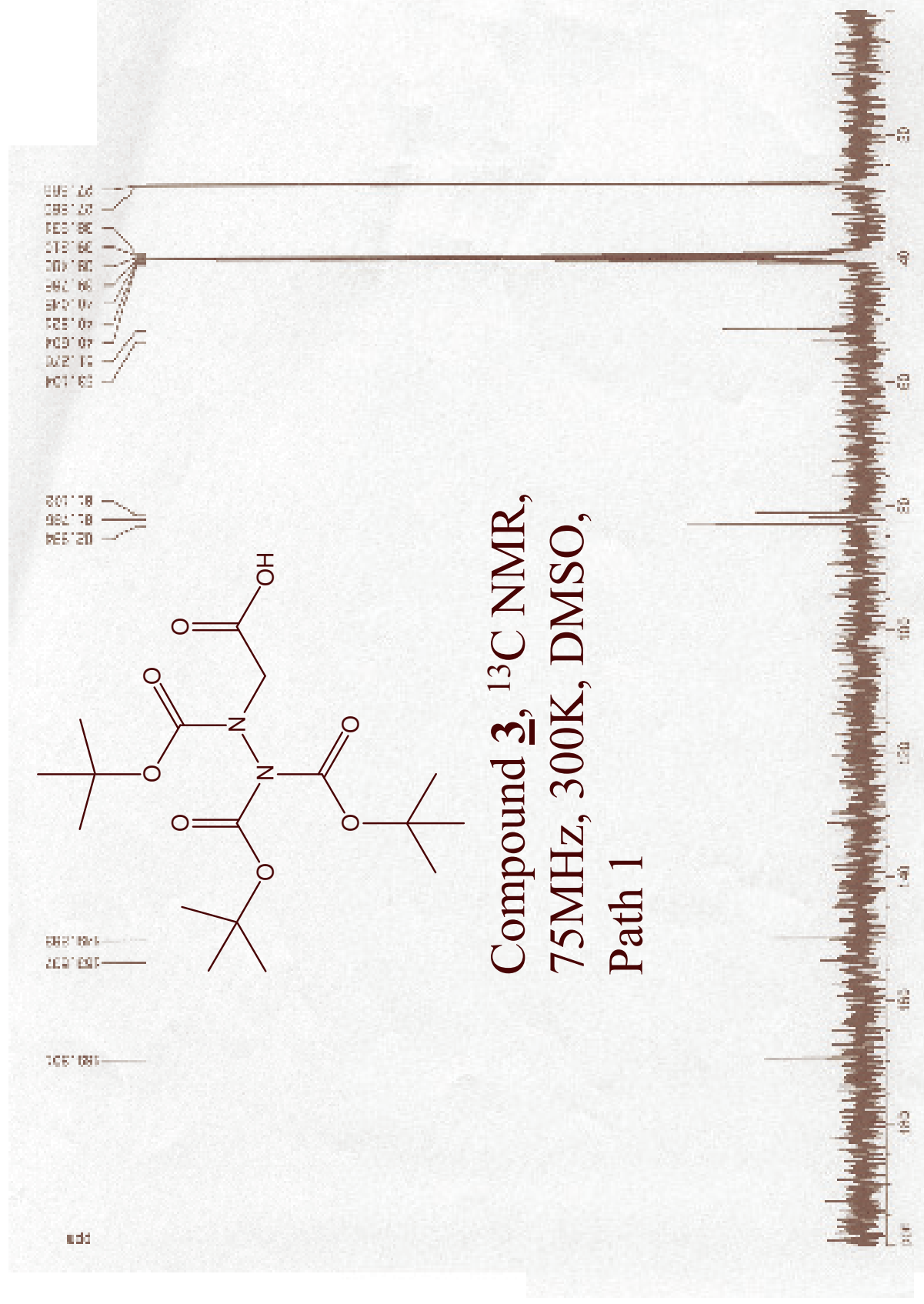


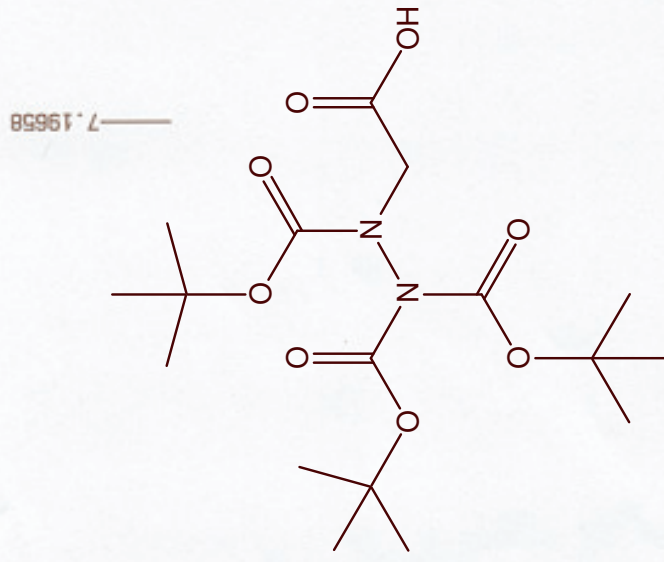
999,134
- 3,329pp



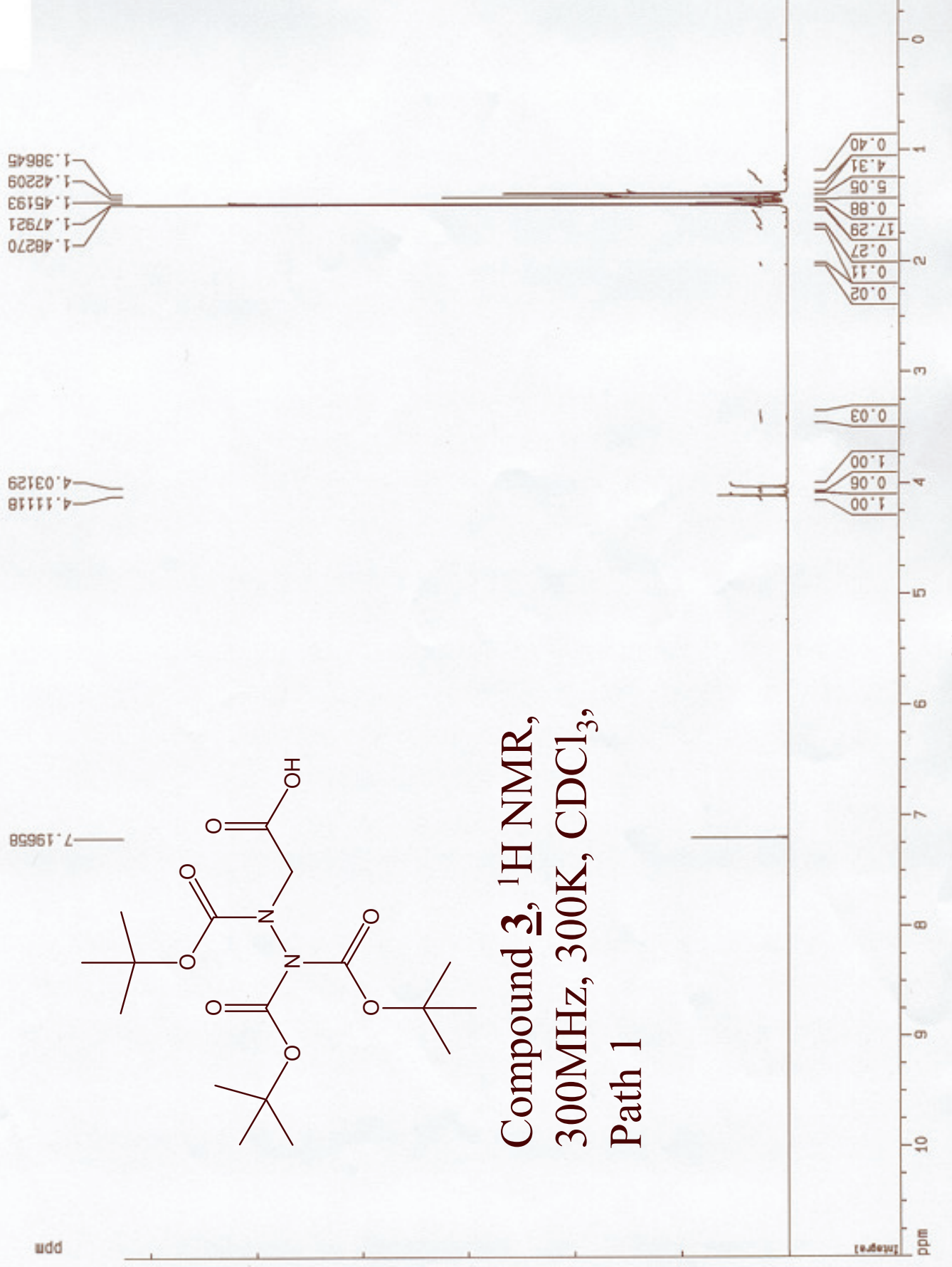
Compound 3, ^1H NMR,
300MHz, 300K, DMSO,
Path 1



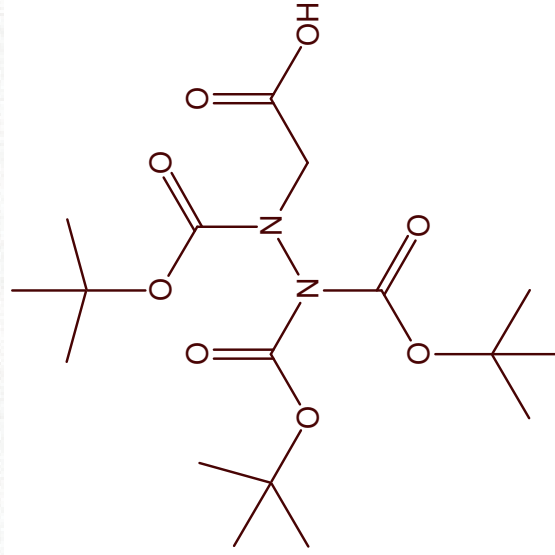




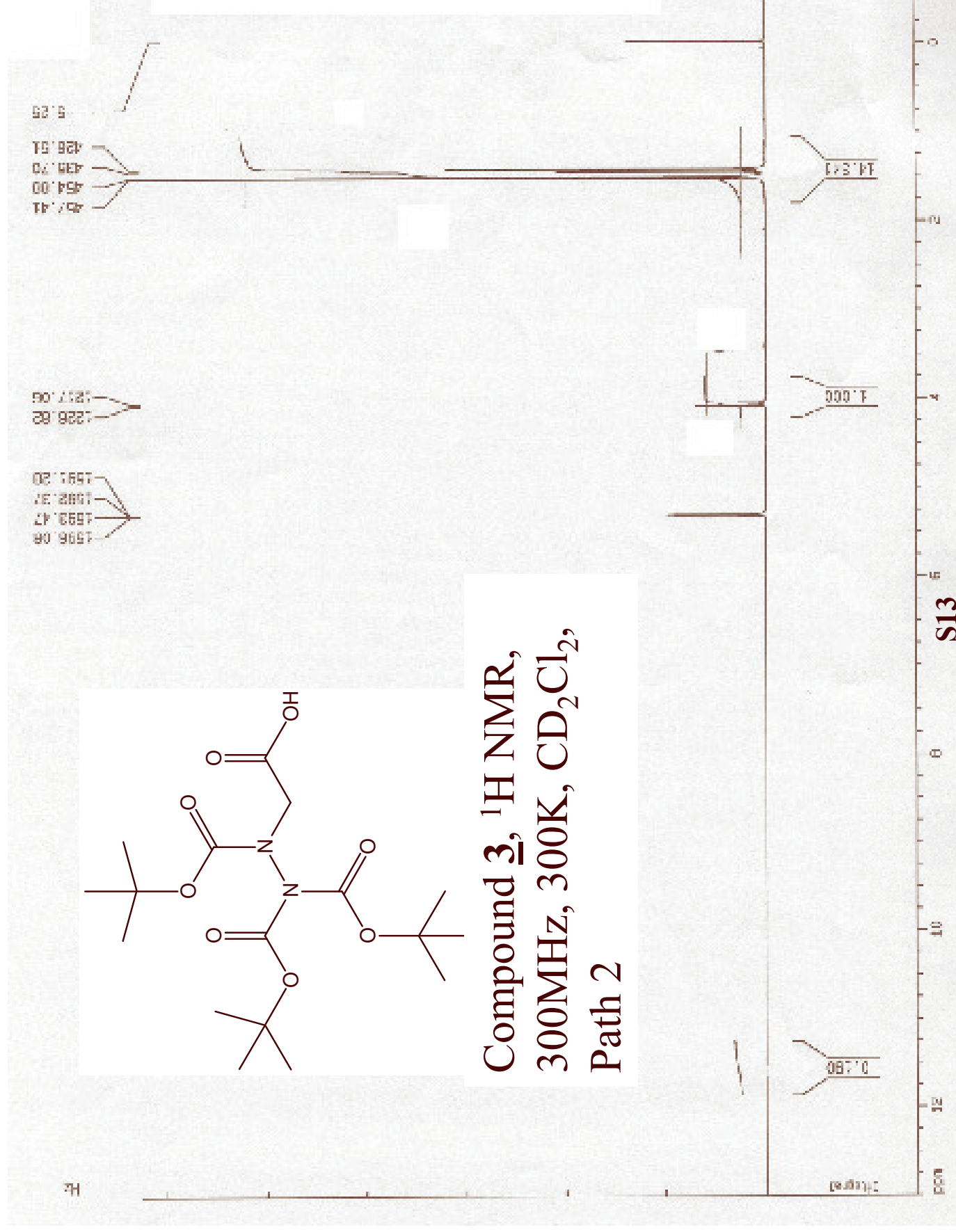
Compound **3**, ^1H NMR,
300MHz, 300K, CDCl_3 ,
Path 1

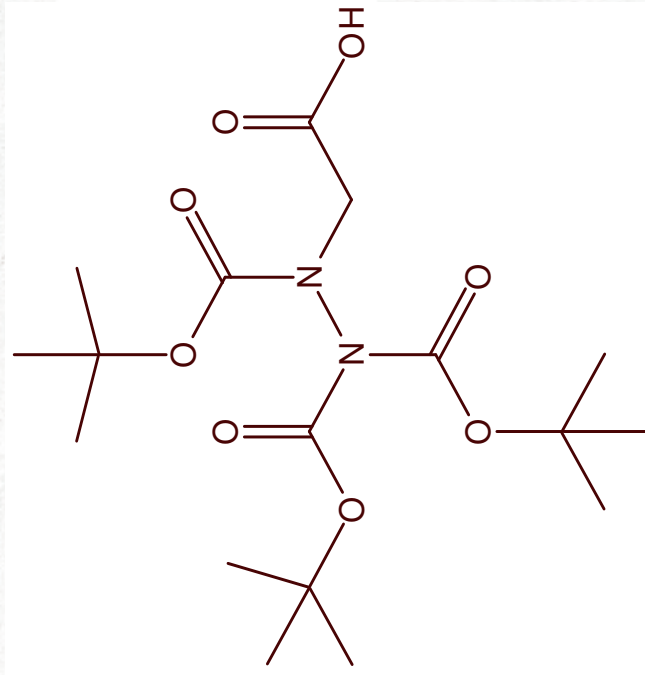






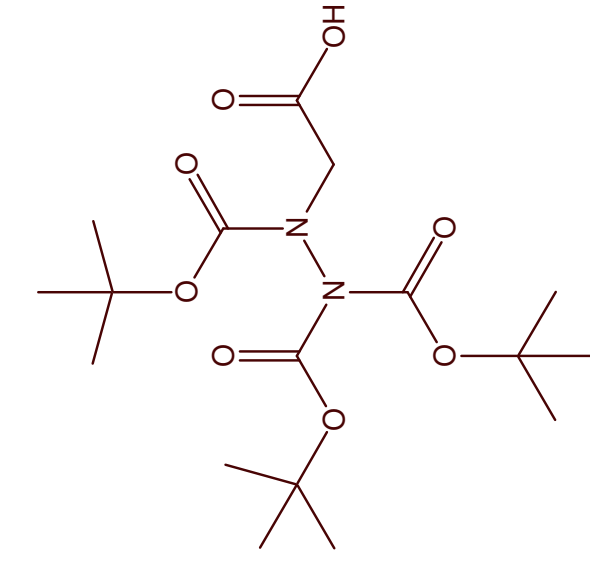
Compound **3**, ^1H NMR,
300MHz, 300K, CD_2Cl_2 ,
Path 2



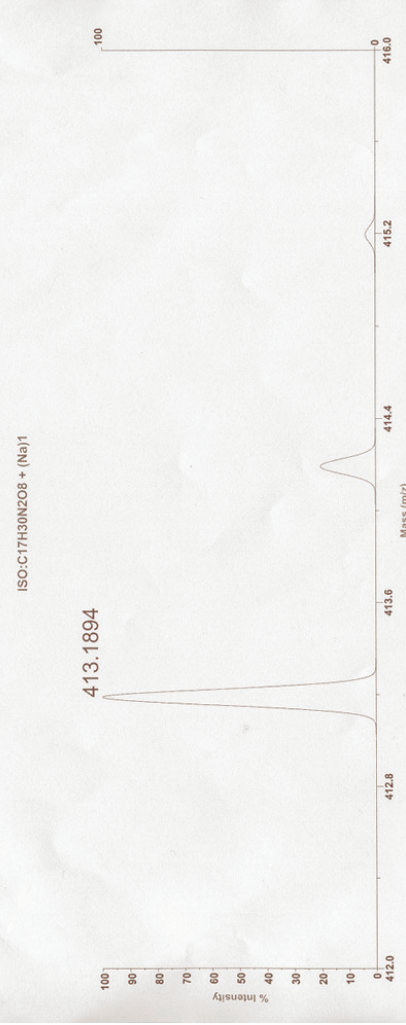
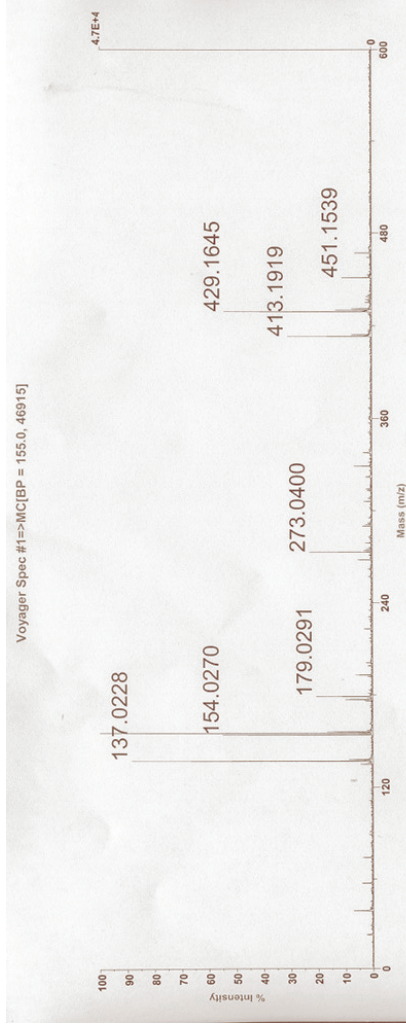


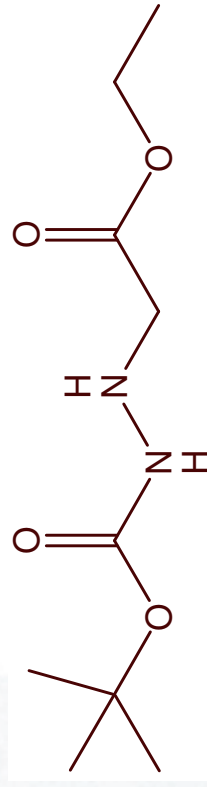
Compound 3, ^1H NMR,
300MHz, 300K, CD_2Cl_2 ,
Path 2



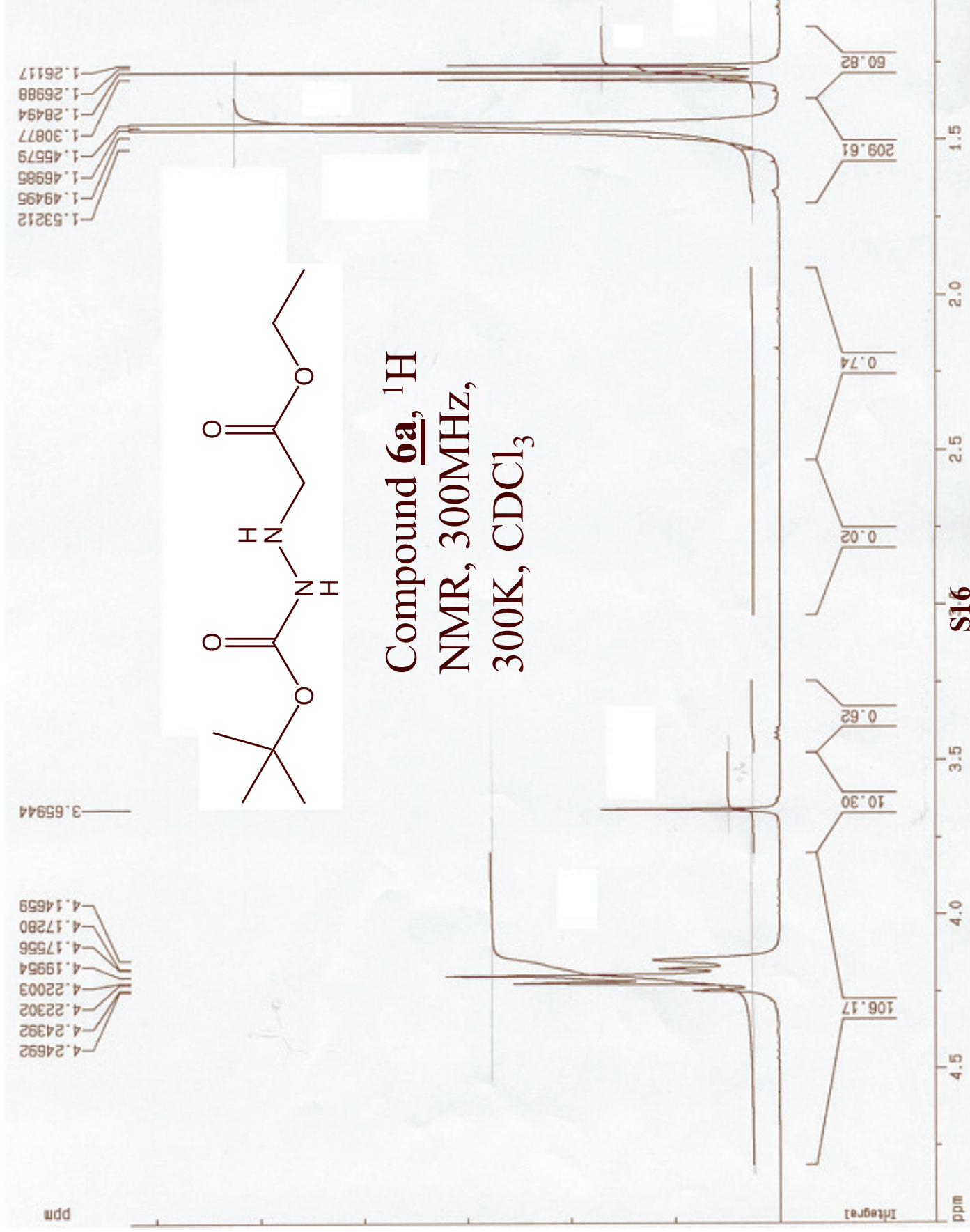


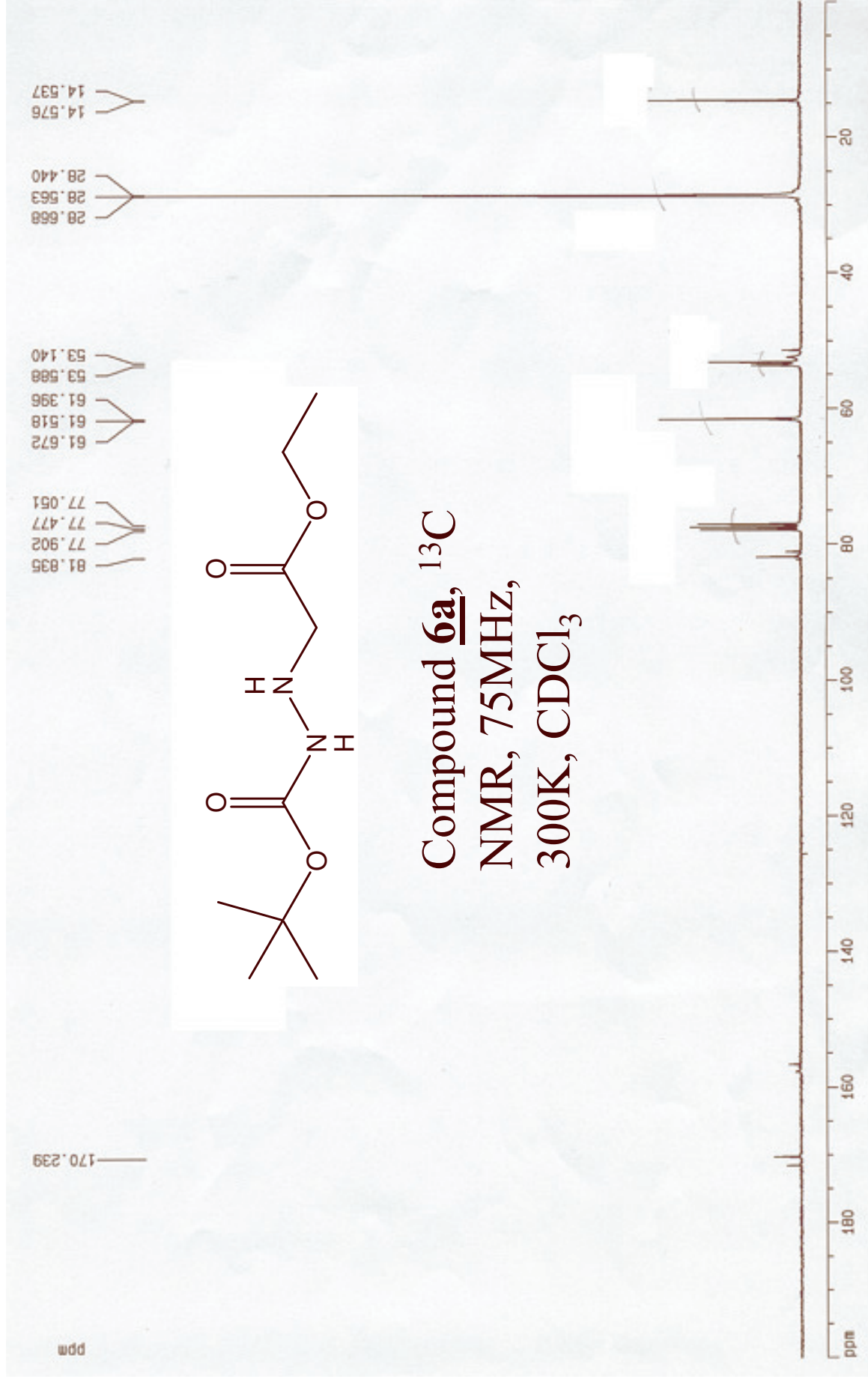
Compound 3, Maldi-TOF, Matrix 2,5- dihydroxybenzoic acid, Path 1

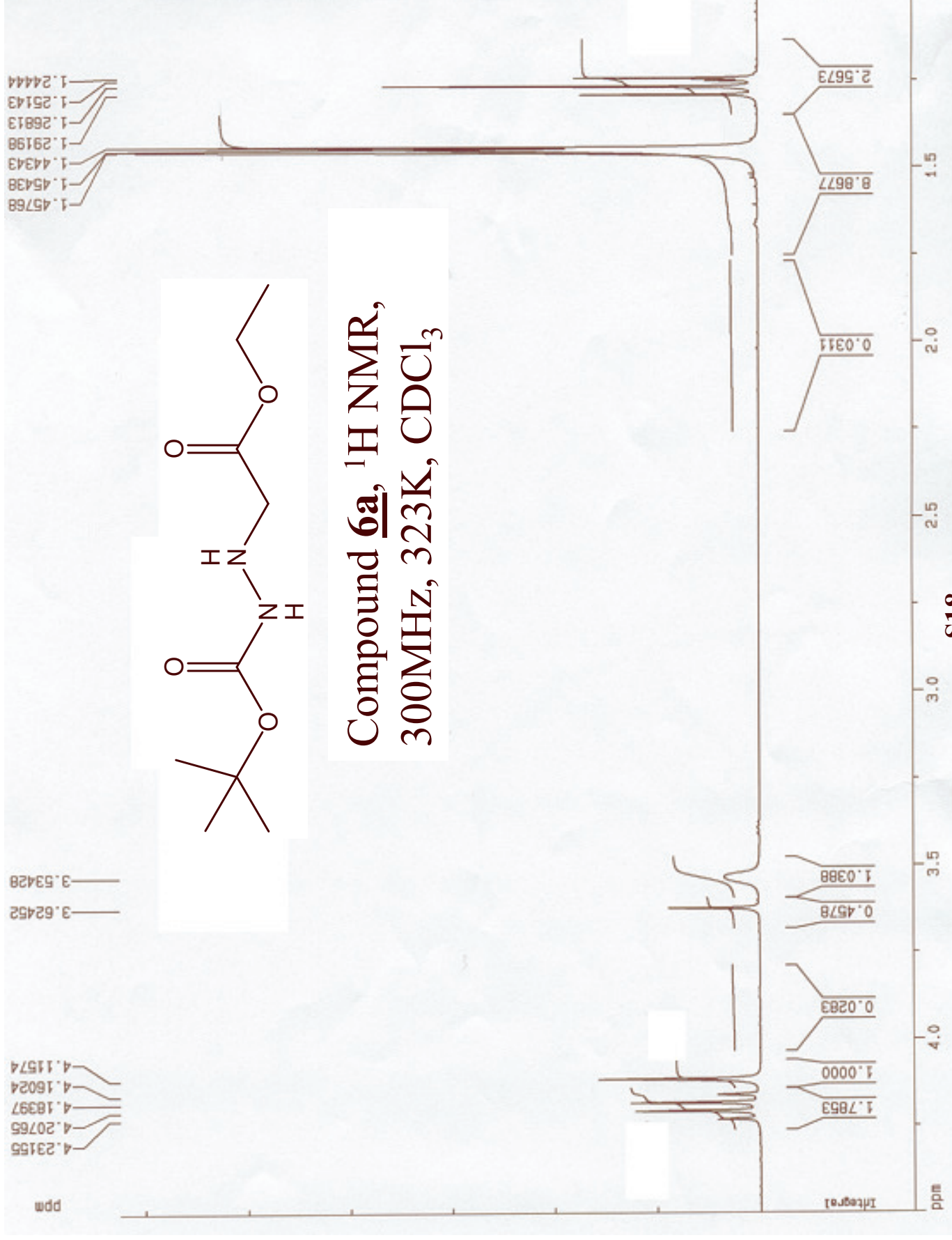


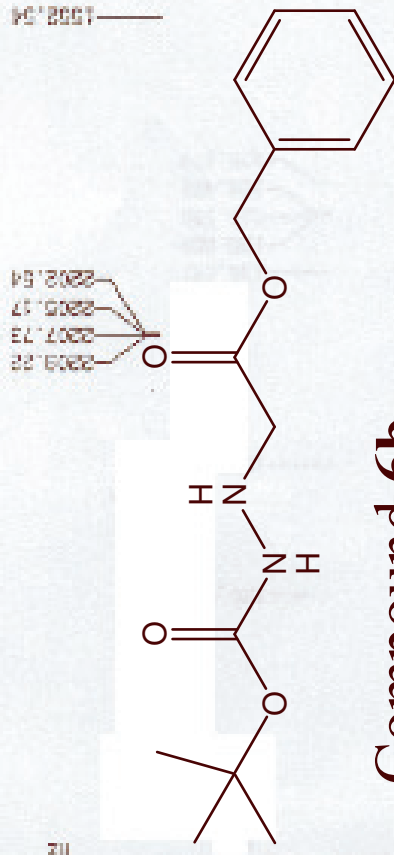


Compound **6a**, ^1H
NMR, 300MHz,
300K, CDCl_3







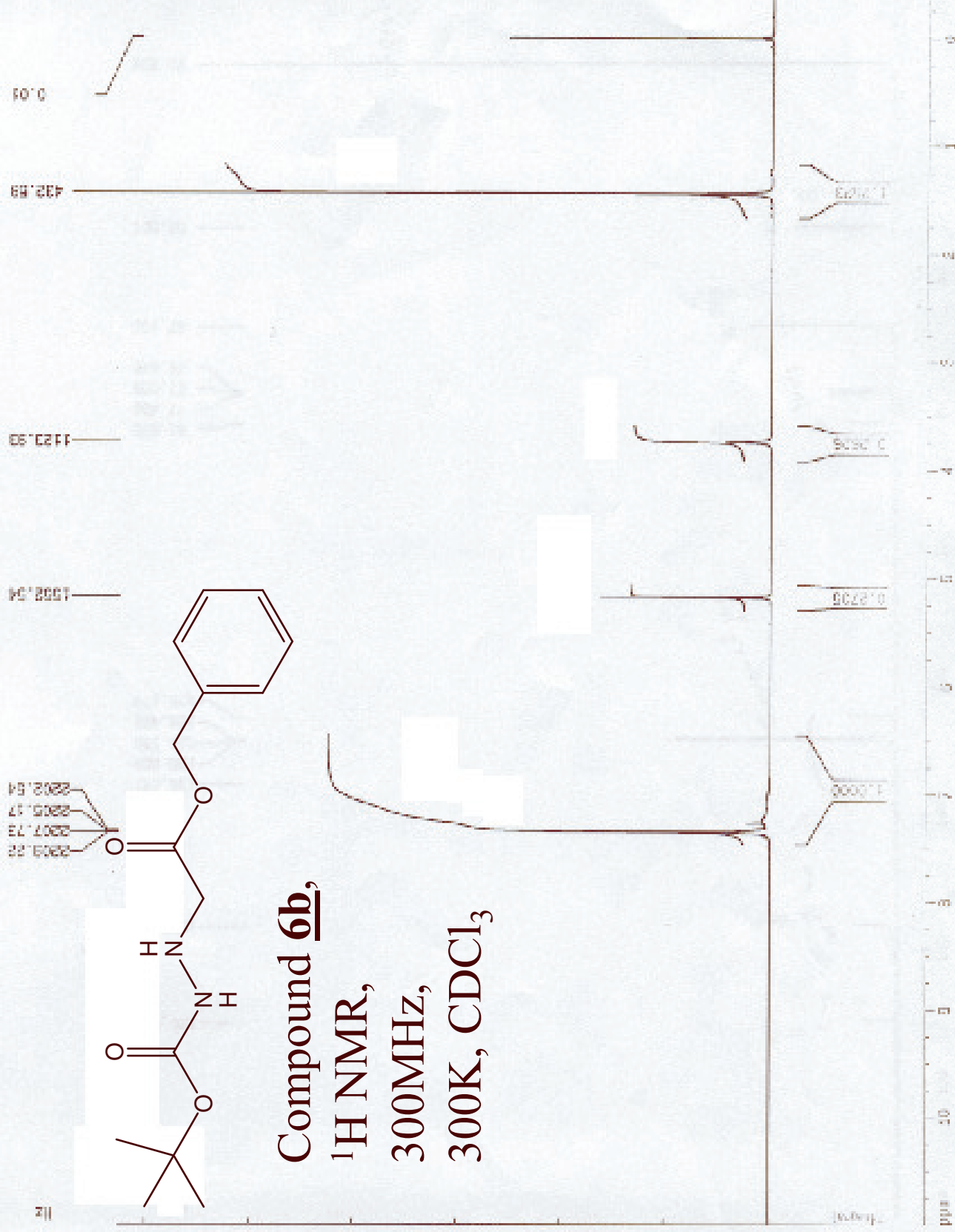


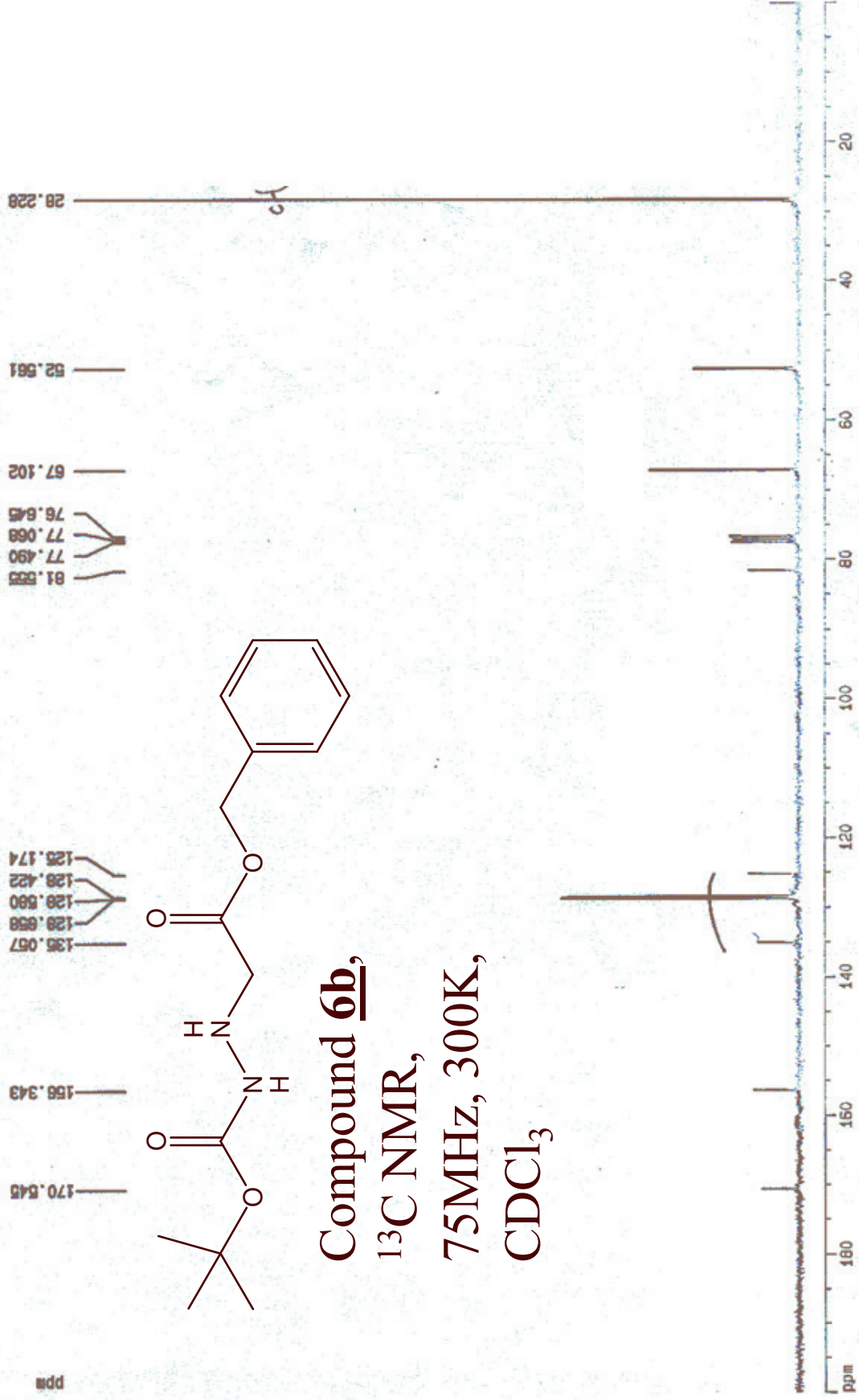
Compound **6b**,

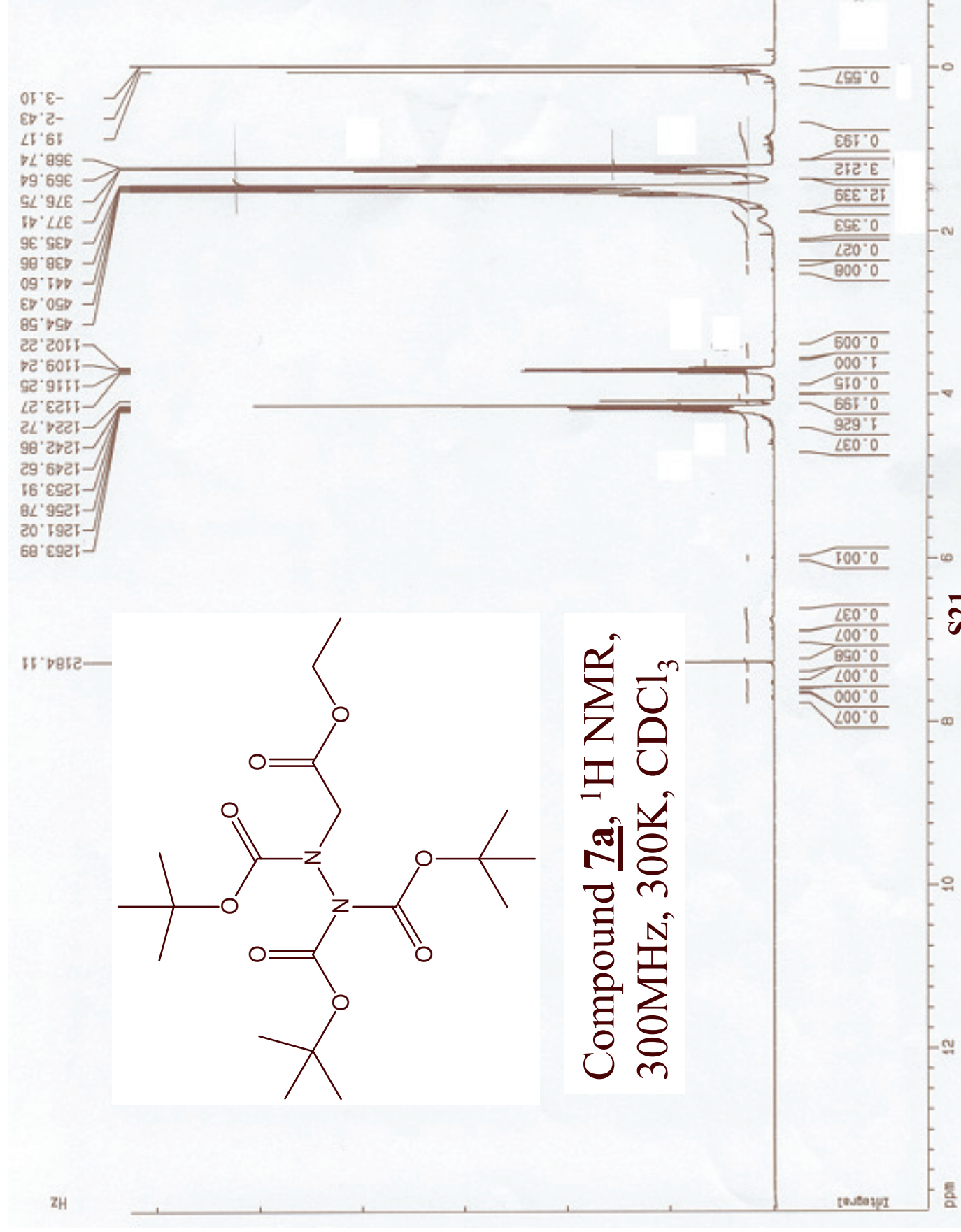
^1H NMR,

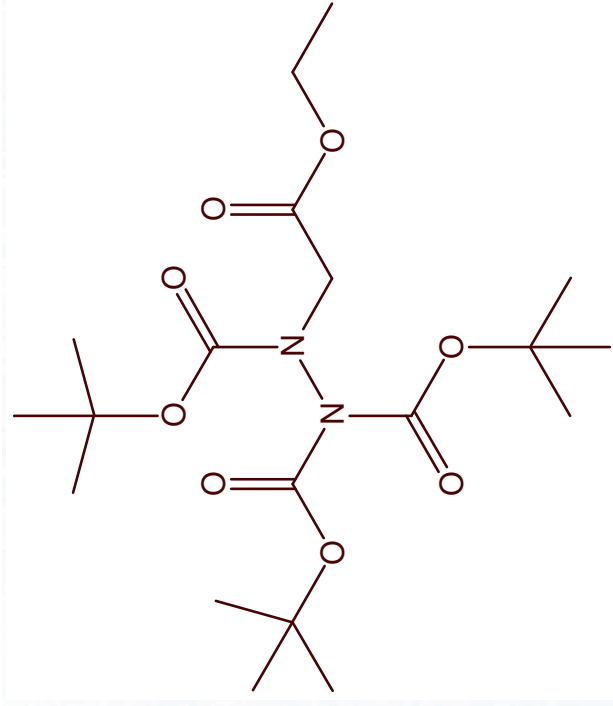
300MHz,

300K, CDCl_3

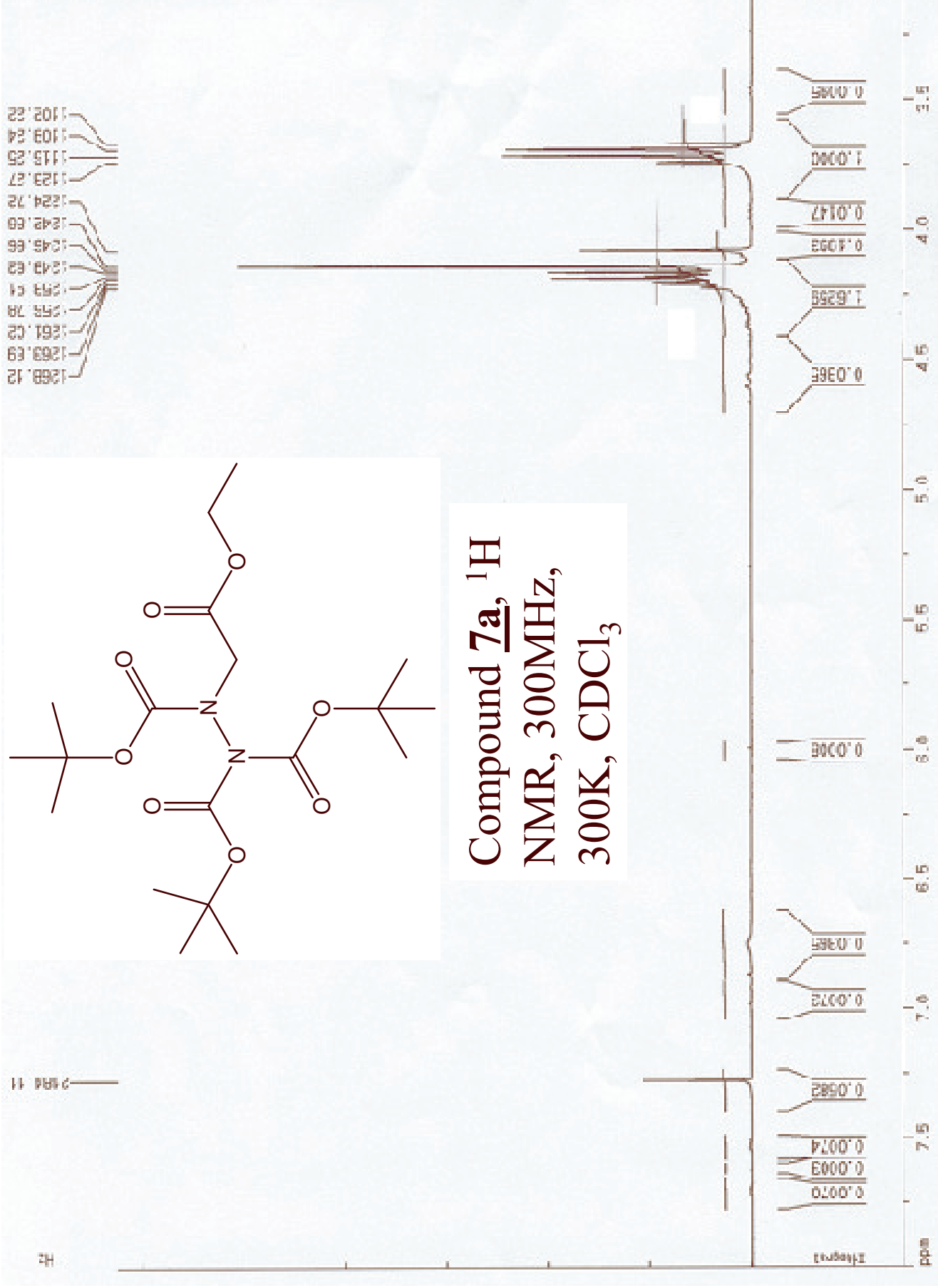


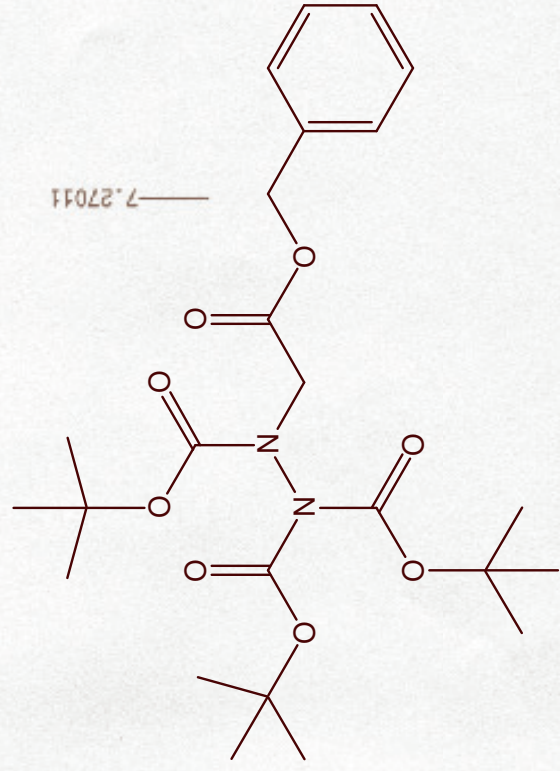




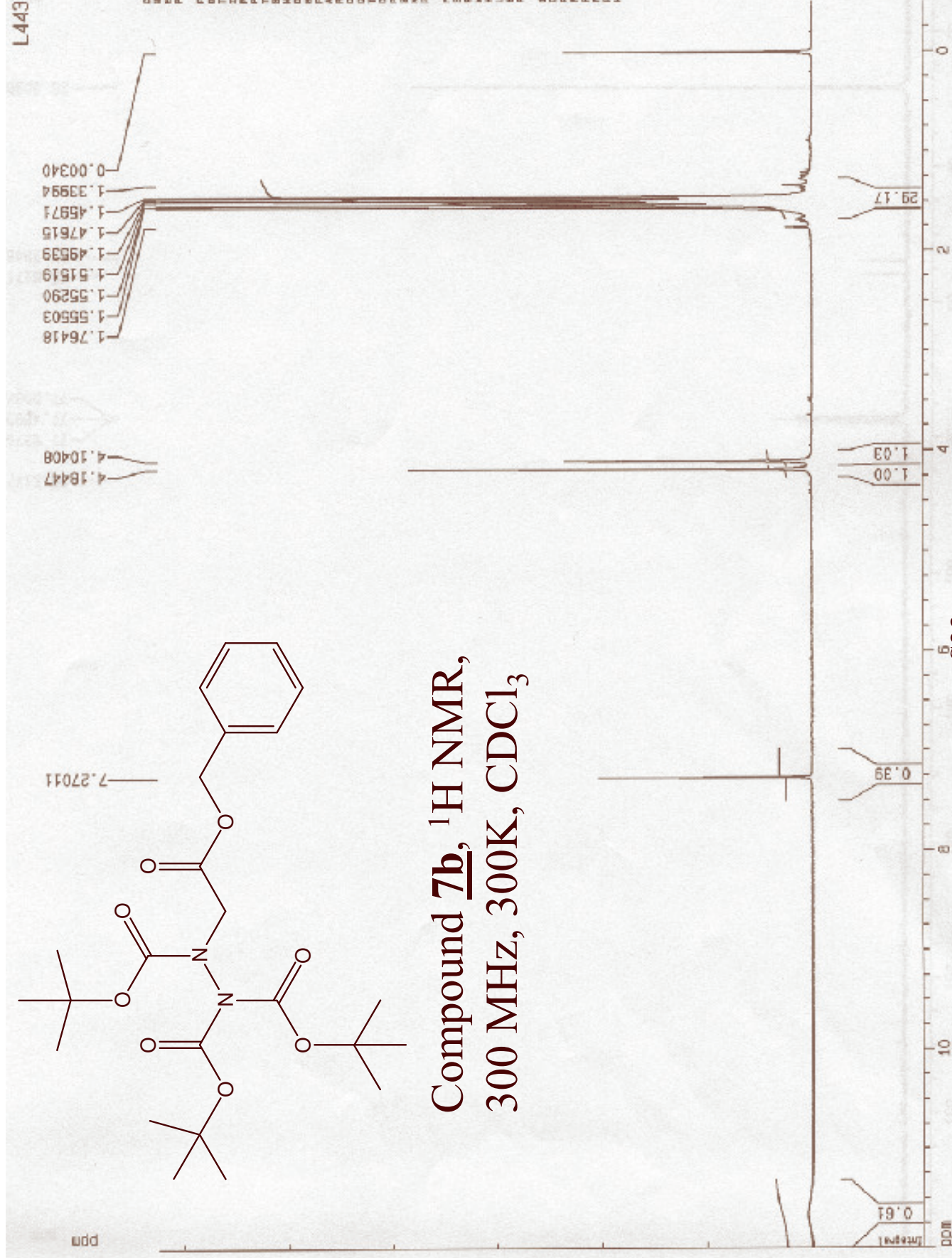


Compound 7a, ^1H
NMR, 300MHz,
300K, CDCl_3

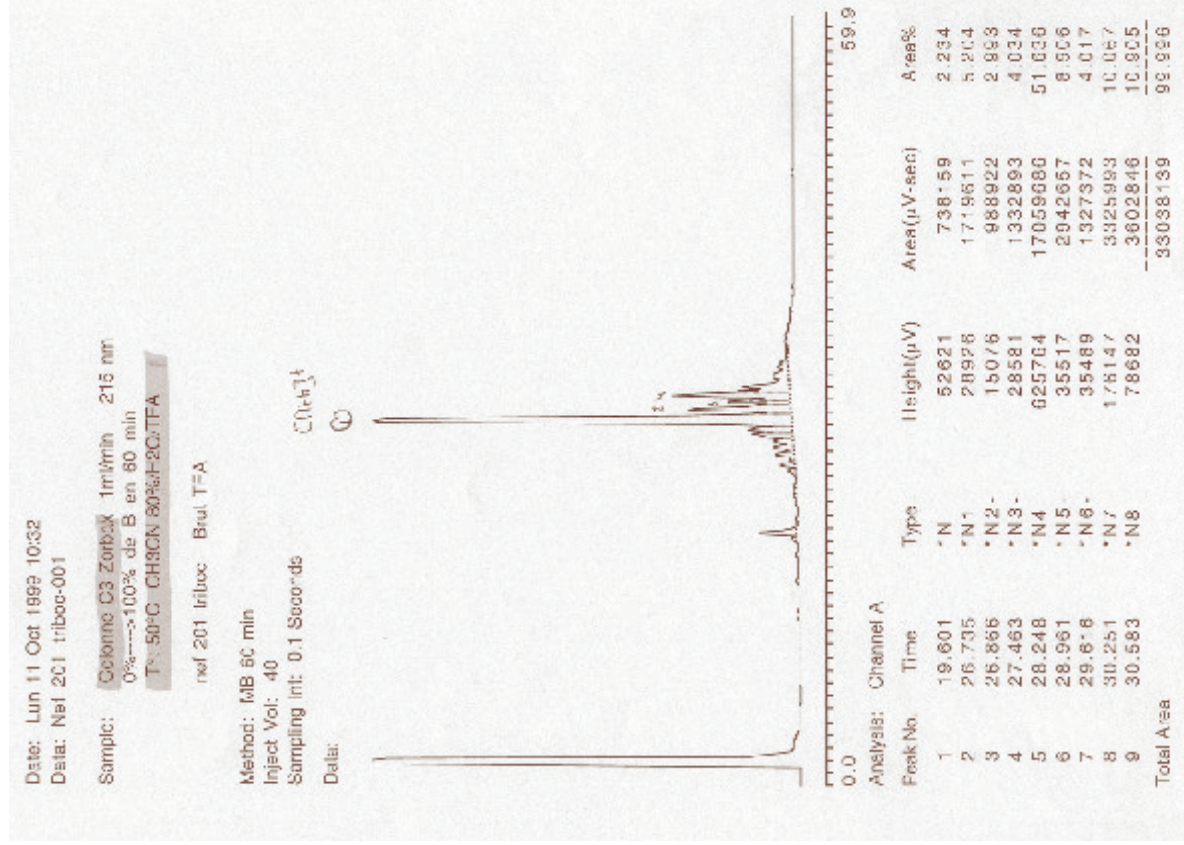




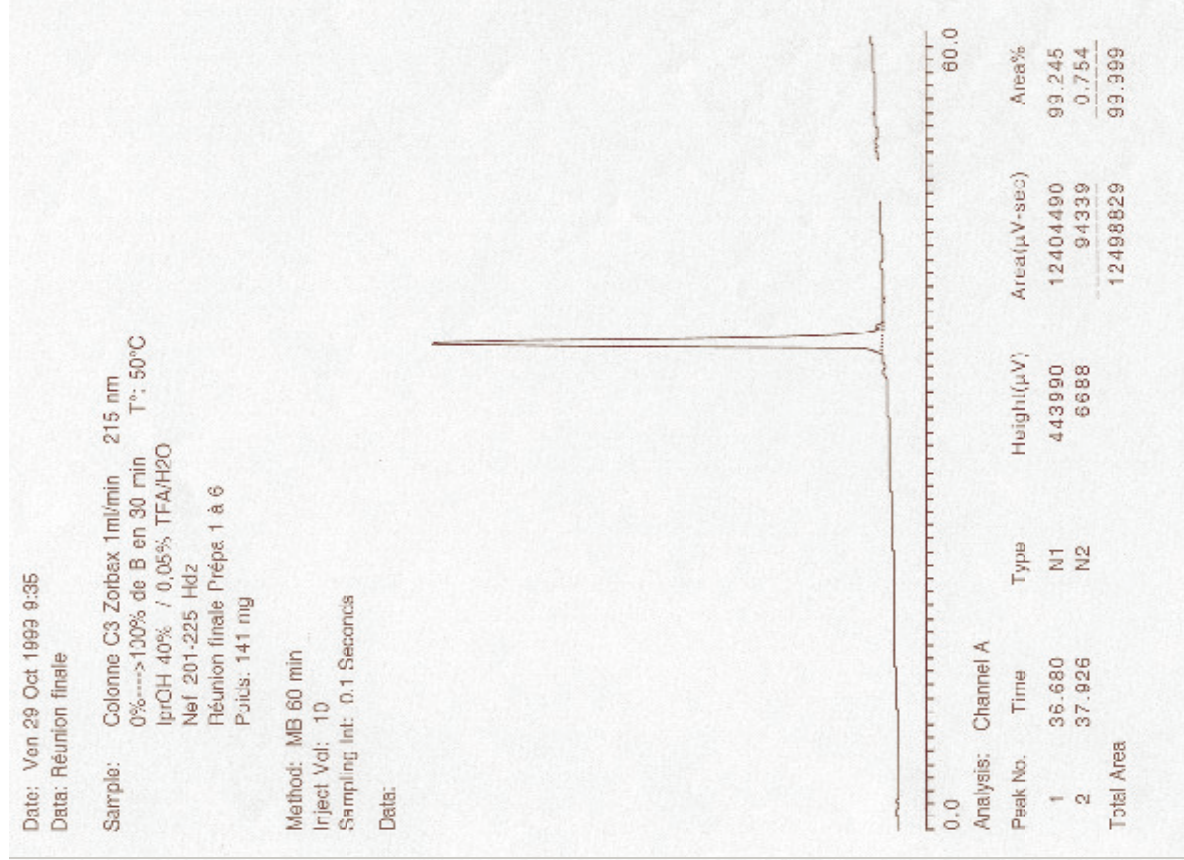
Compound **7b**, ¹H NMR,
300 MHz, 300K, CDCl₃



Peptide **13** : RP- HPLC before purification



Peptide **13** : RP-HPLC after purification



Peptide 13, ES-MS

Top Spectrum (Scan ES+ 4.70e7):

- Peak at 645.9: $\frac{M+H}{5}$
- Peak at 793.5: $\frac{M+H}{4}$
- Peak at 807.3: $\frac{M+H}{5}$
- Peak at 1063.2: $\frac{M+H}{3}$ (labeled 386.6)
- Peak at 1594.5: $\frac{M+H}{2}$

Bottom Spectrum (Scan ES+ 1.64e8):

- Peak at 3058.0: $\frac{M+H}{2}$ (labeled 1529)
- Peak at 3170.0: $\frac{M+H}{2}$ (labeled 1585)
- Peak at 3203.0: $\frac{M+H}{2}$ (labeled 1601.5)
- Peak at 3225.0: $\frac{M+H}{2}$ (labeled 1612.5)
- Peak at 3240.5: $\frac{M+H}{2}$ (labeled 1620.25)
- Peak at 3249.5: $\frac{M+H}{2}$ (labeled 1624.75)