

Supporting Information

for

Practical Synthesis from Streptomycin and Regioselective Partial Deprotections of (-)-1*R*,2*S*,3*R*,4*R*,5*S*,6*S*-1,3-Di(deamino)-1,3-diazido-2,5,6-tri-*O*-benzylstreptamine

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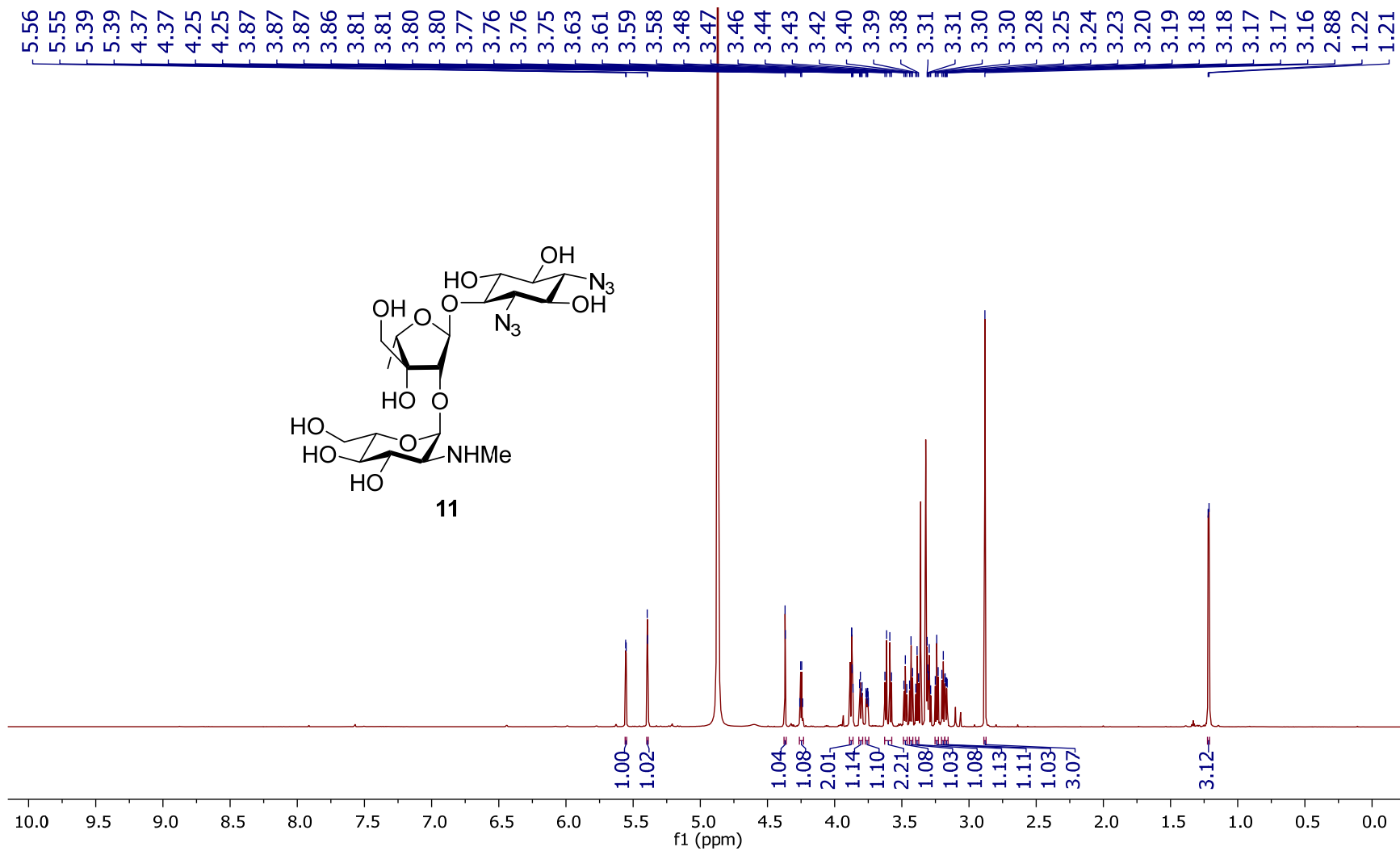
Email: David.Crich@uga.edu

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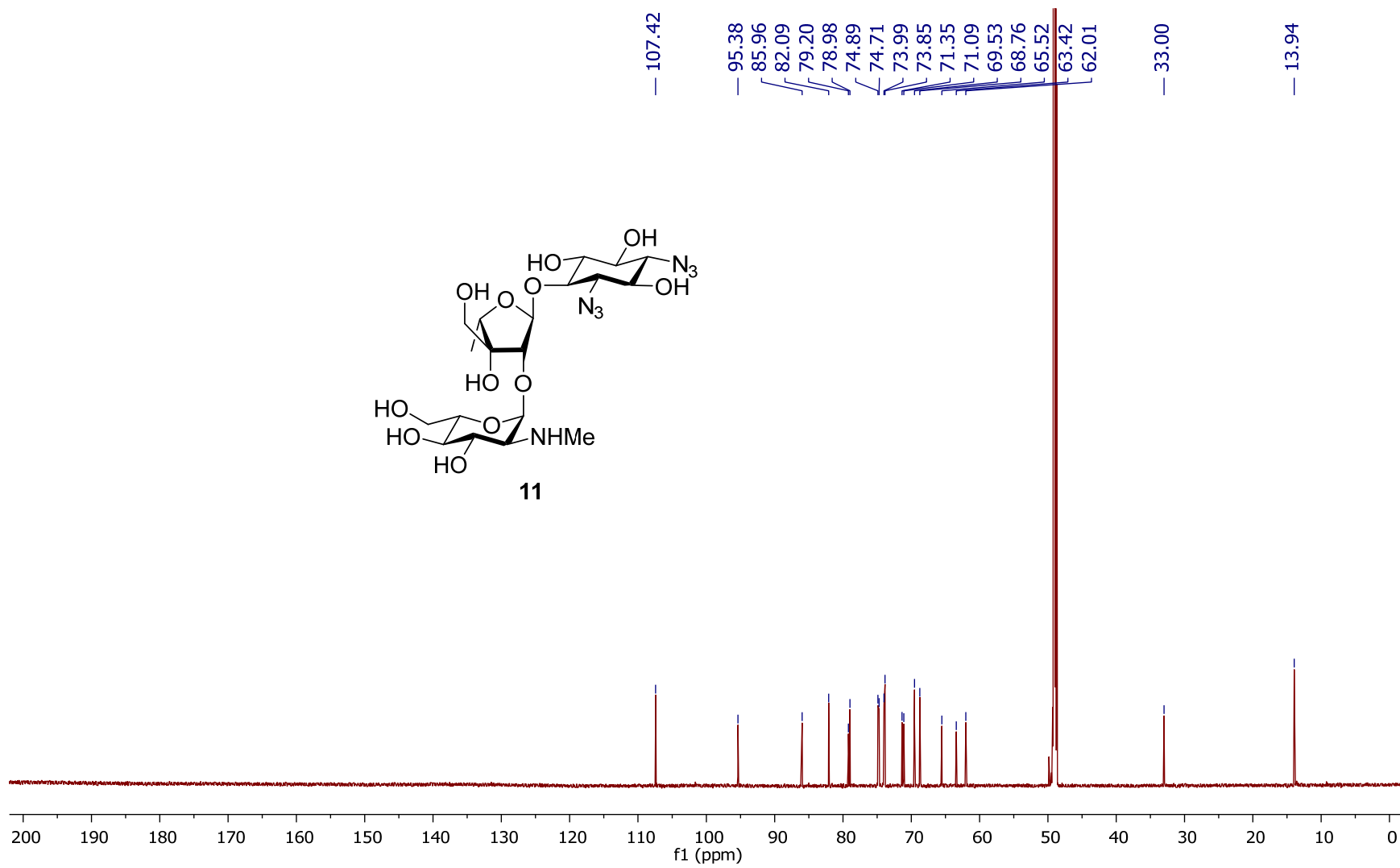
Compound	Spectral Charts
1,3-Bis(deamino)-1,3-diazido-dihydrostreptomycin (11)	S3-S6
<i>N'</i> -Methyl-1,3-bis(deamino)-1,3-diazido-dihydrostreptomycin (12)	S7-S11
1,3-Bis(deamino)-1,3-diazido-2,5,6-tri- <i>O</i> -benzyl-4- <i>O</i> -(3',6'-di- <i>O</i> -benzyl-2'- <i>O</i> -(2''- <i>N</i> -benzyl-3'',4'',6''-tri- <i>O</i> -benzyl-dihydrostreptomycin (13)	S12-S15
1,3-Di(deamino)-1,3-diazido-2,5,6-tri- <i>O</i> -benzylstreptamine (14)	S16-S19
Methyl Streptobiosaminide (15)	S20-S23
4- <i>O</i> -Acetyl-1,3-di(deamino)-1,3-diazido-2,5,6-tri- <i>O</i> -benzylstreptamine (16)	S24-S27
1,3-Di(deamino)-1,3-diazido-2,6-di- <i>O</i> -benzylstreptamine (17)	S28-S31
4,5-Di- <i>O</i> -acetyl-1,3-di(deamino)-1,3-diazido-2,6-di- <i>O</i> -benzylstreptamine (18)	S32-S35
1,3-Di(deamino)-1,3-diazido-5,6-di- <i>O</i> -benzylstreptamine (19)	S36-S39
1,3-Di(deamino)-1,3-diazido-2,5-di- <i>O</i> -benzylstreptamine (20)	S40-S43
2,4-Di- <i>O</i> -acetyl-1,3-di(deamino)-1,3-diazido-5,6-di- <i>O</i> -benzylstreptamine (21)	S44-S47
4,6-Di- <i>O</i> -acetyl-1,3-di(deamino)-1,3-diazido-2,5-di- <i>O</i> -benzylstreptamine (22)	S48-S51
1,3-Di(deamino)-1-azido-3- <i>N</i> -tert-butylcarboxy-2,5,6-tri- <i>O</i> -benzyl-3,4-oxazolidino-streptamine (23)	S52-S55

Spectral Charts

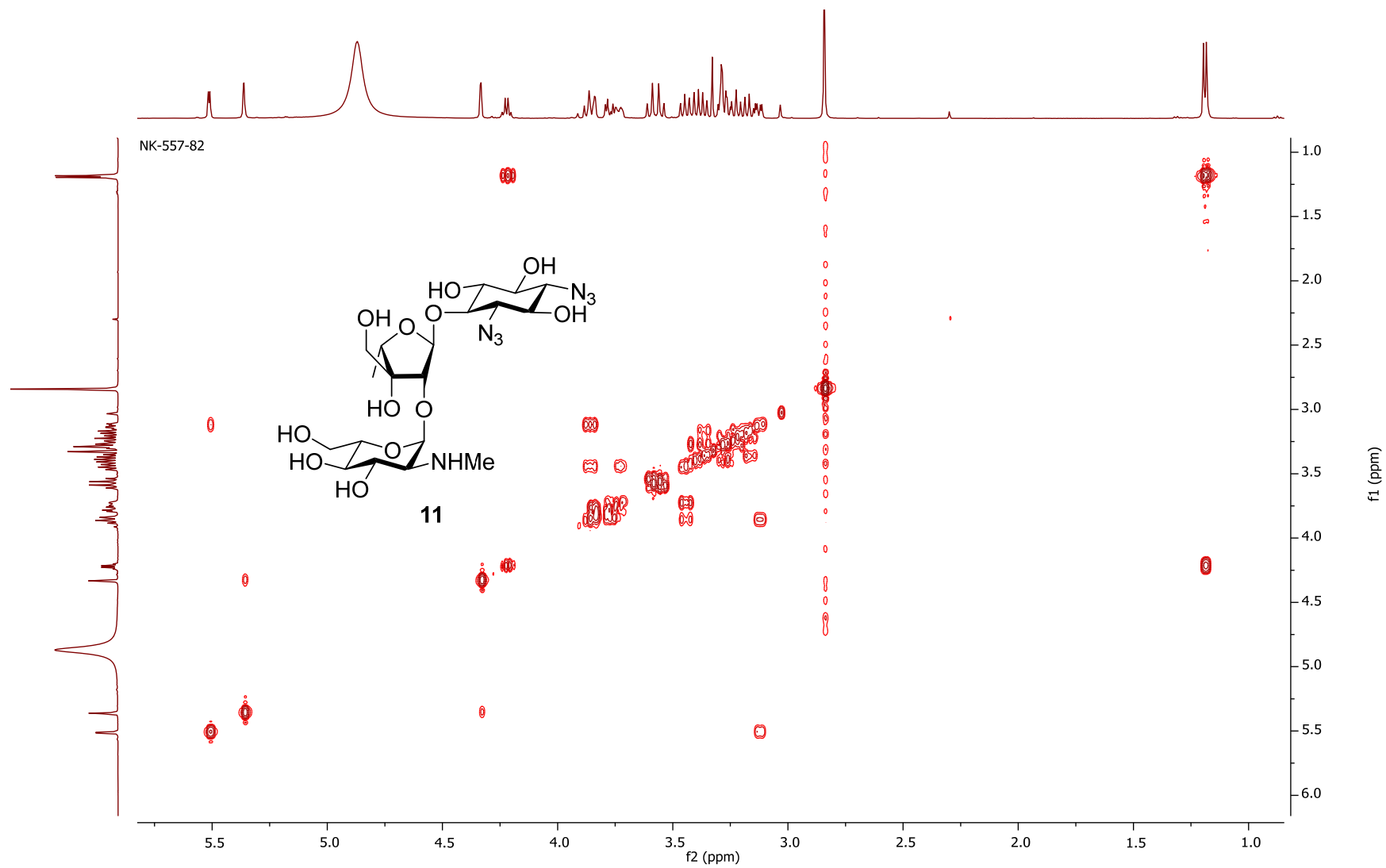
^1H NMR (900 MHz, CD_3OD) spectrum of 1,3-bis(deamino)-1,3-diazo-dihydrostreptomycin (**11**)



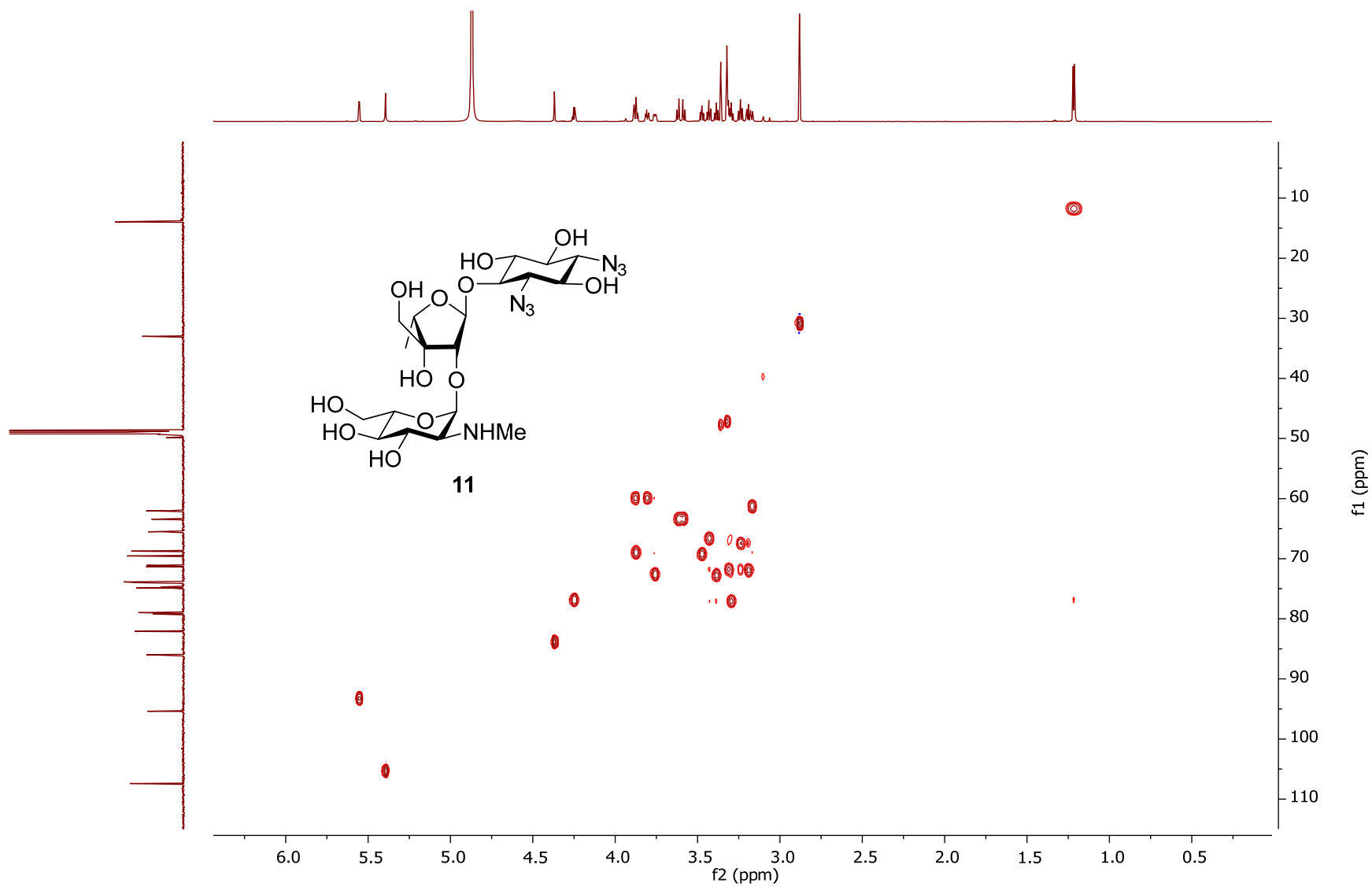
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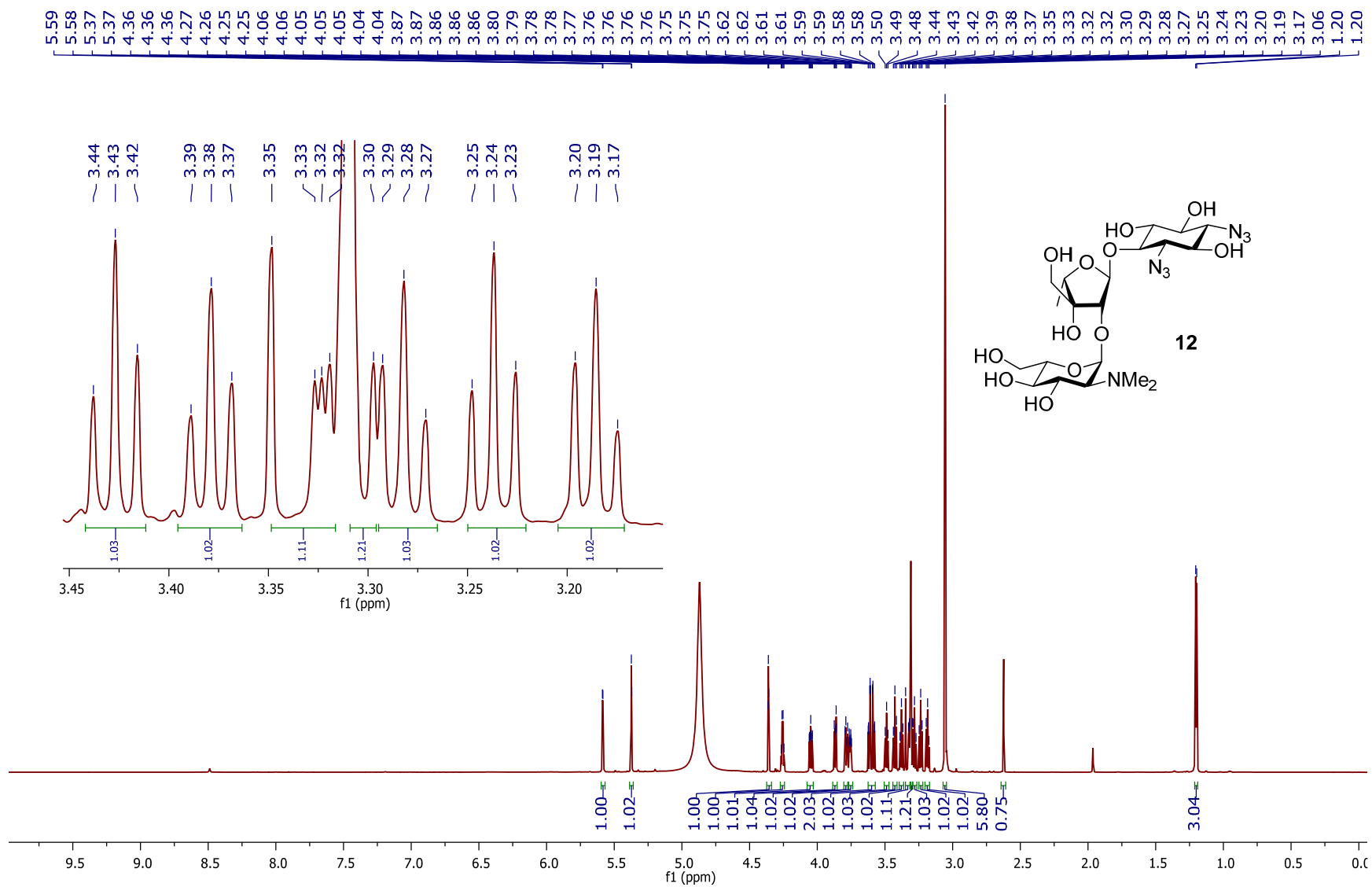
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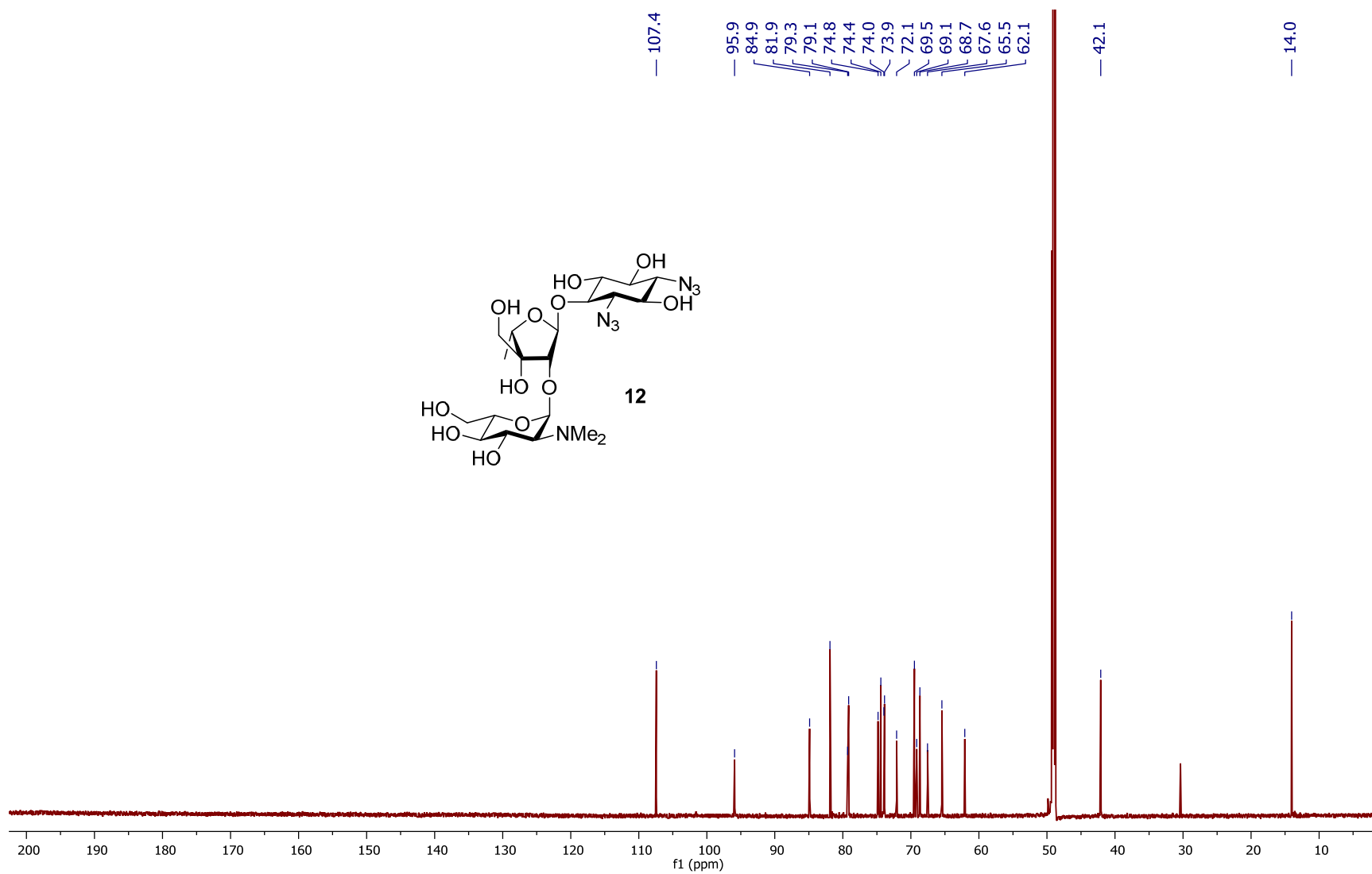
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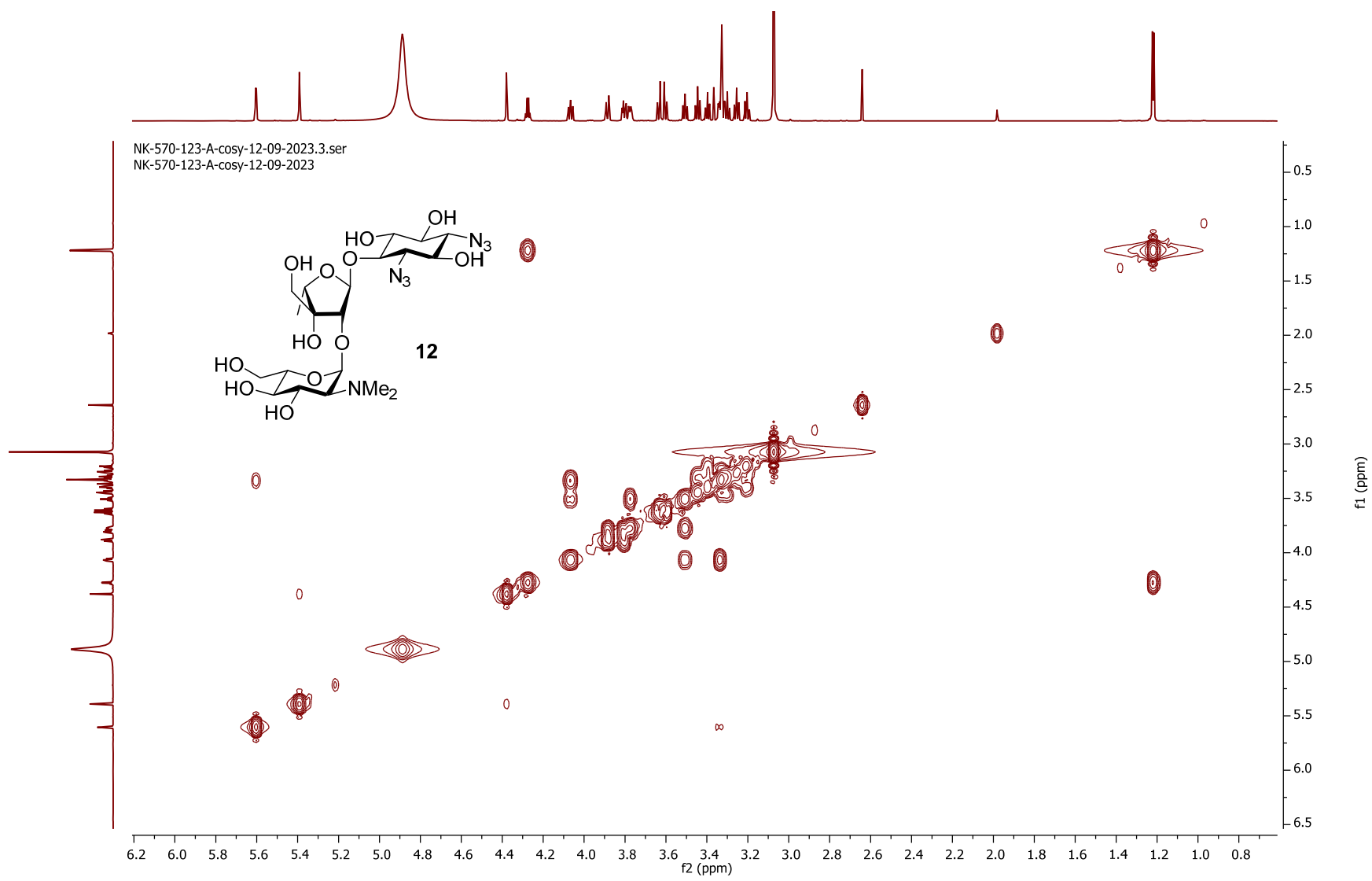
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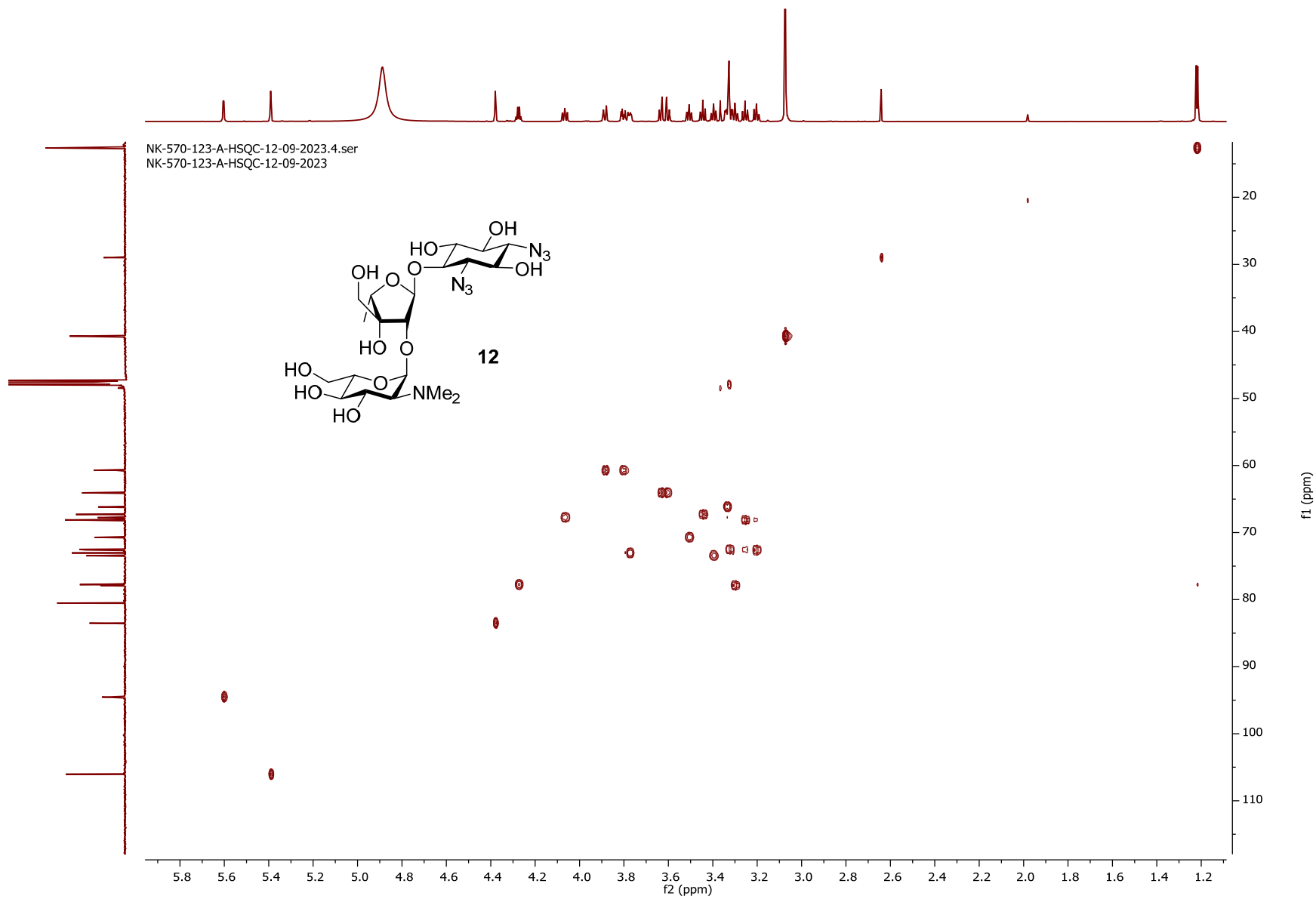
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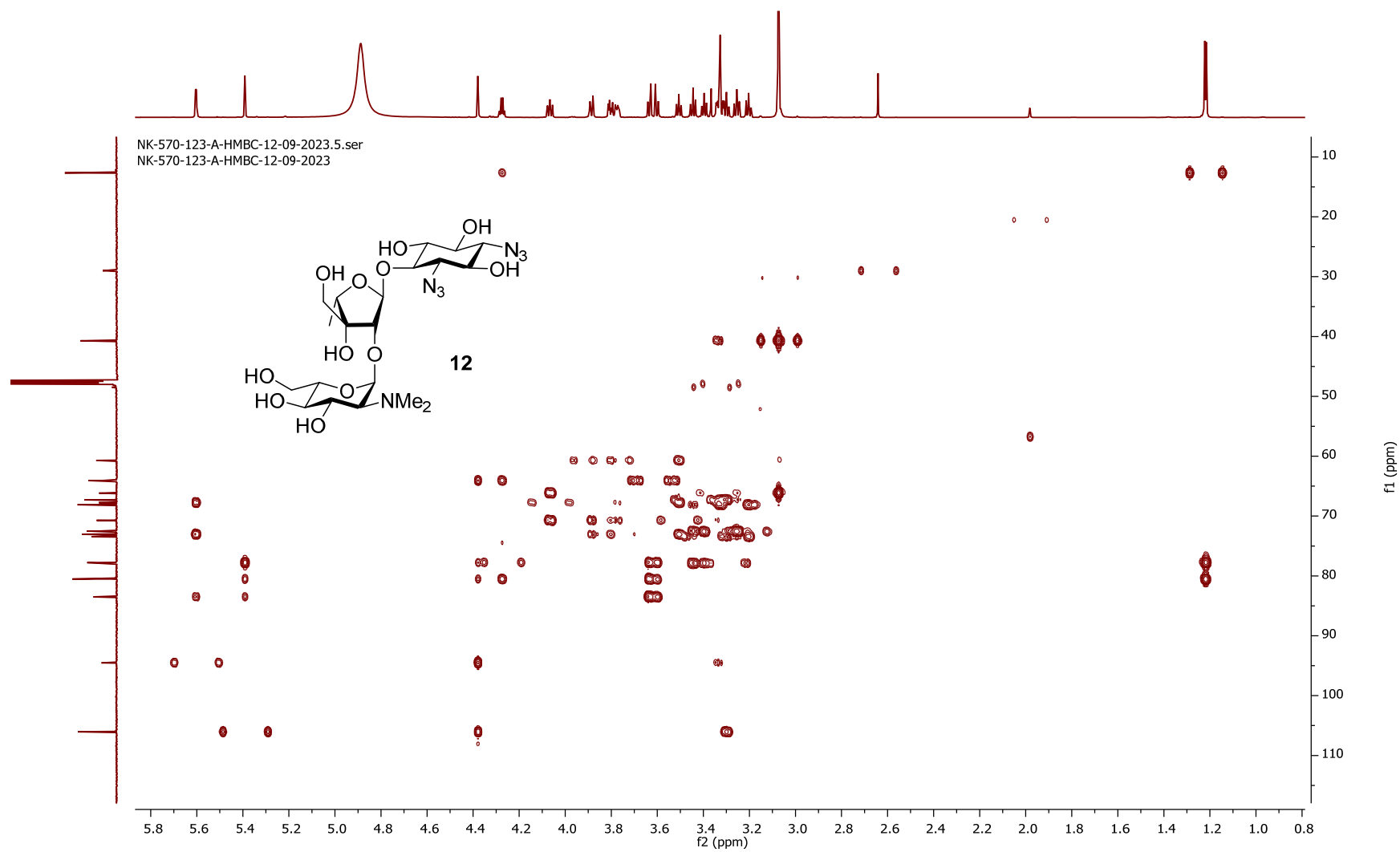
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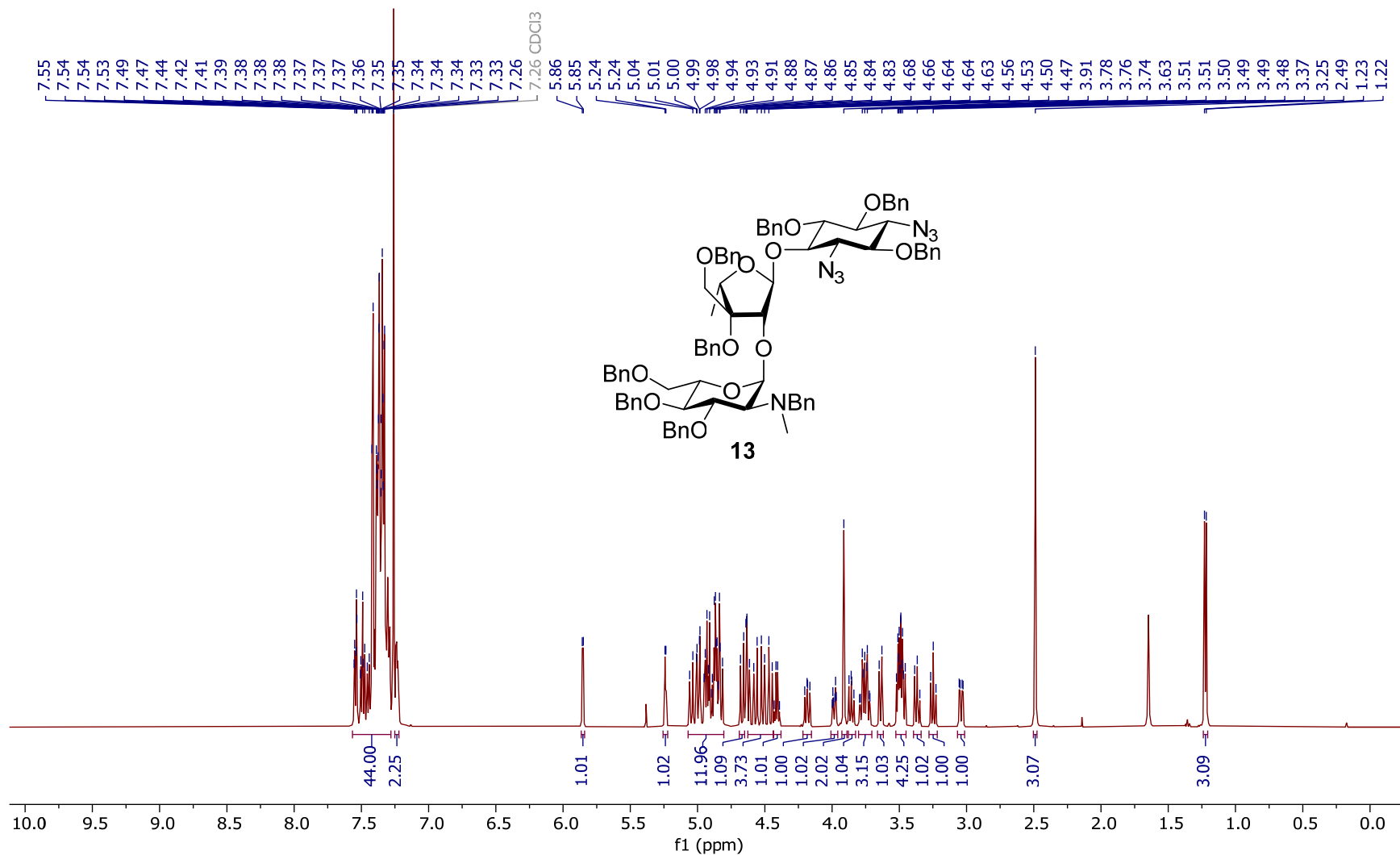
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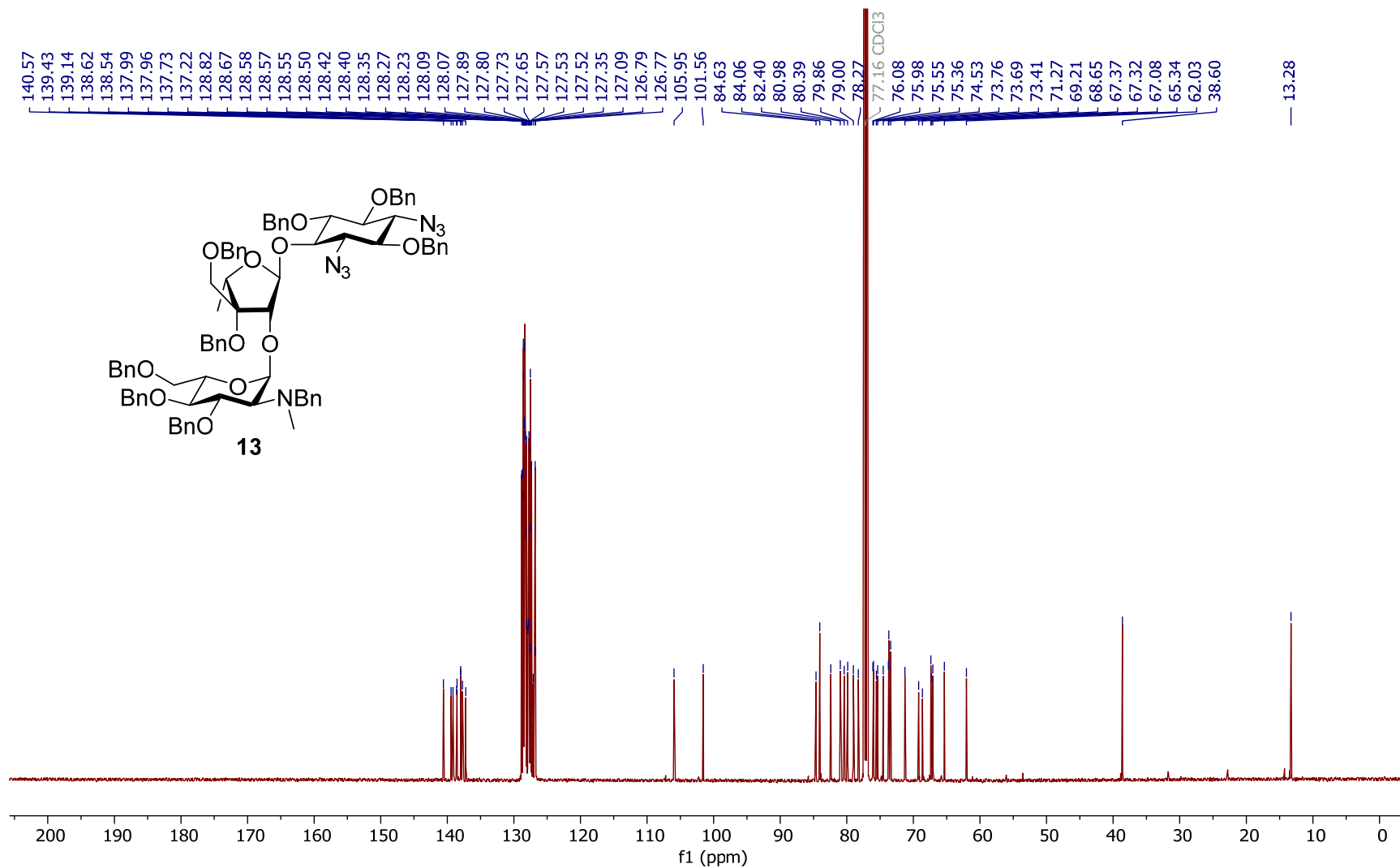
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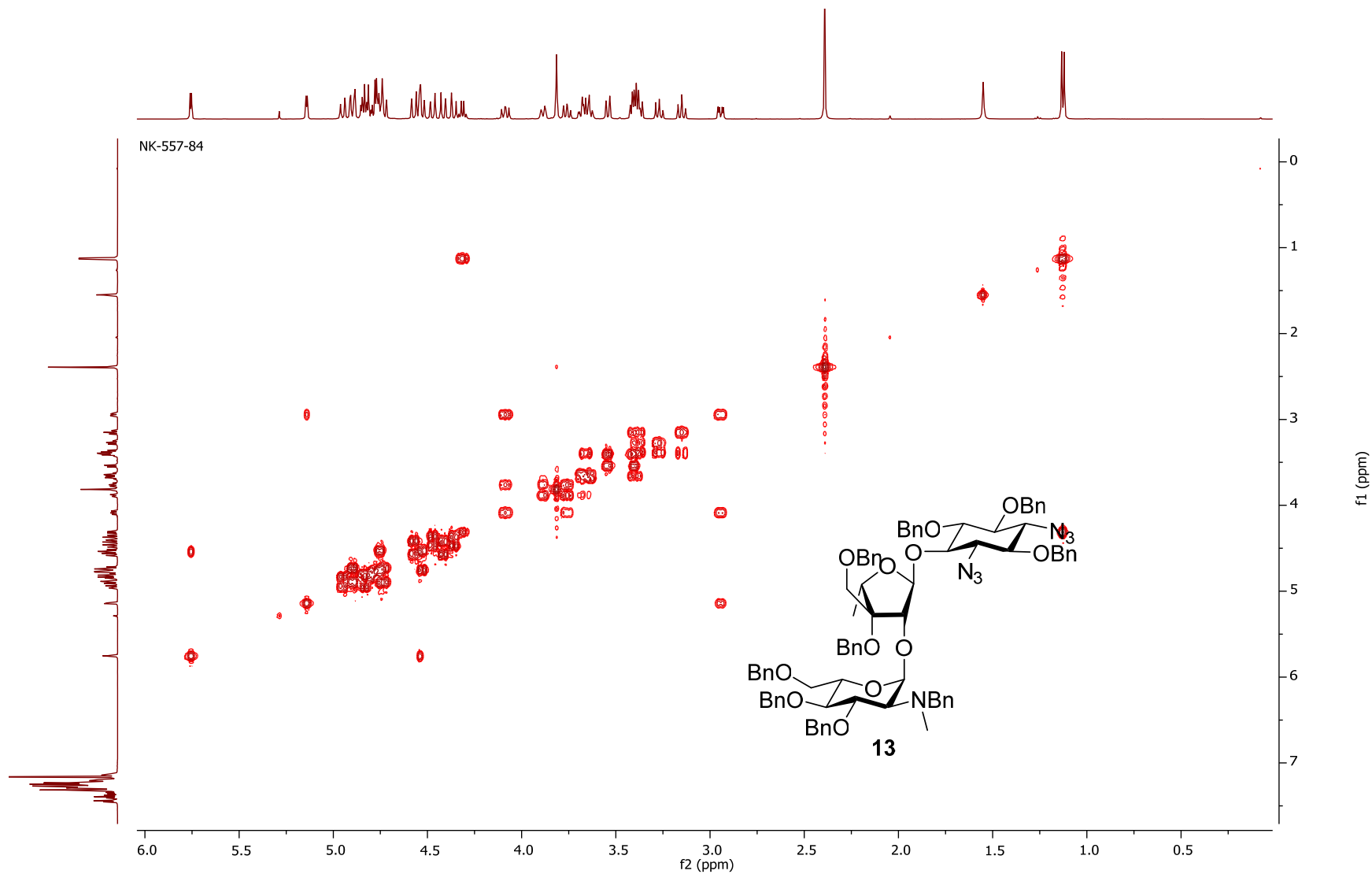
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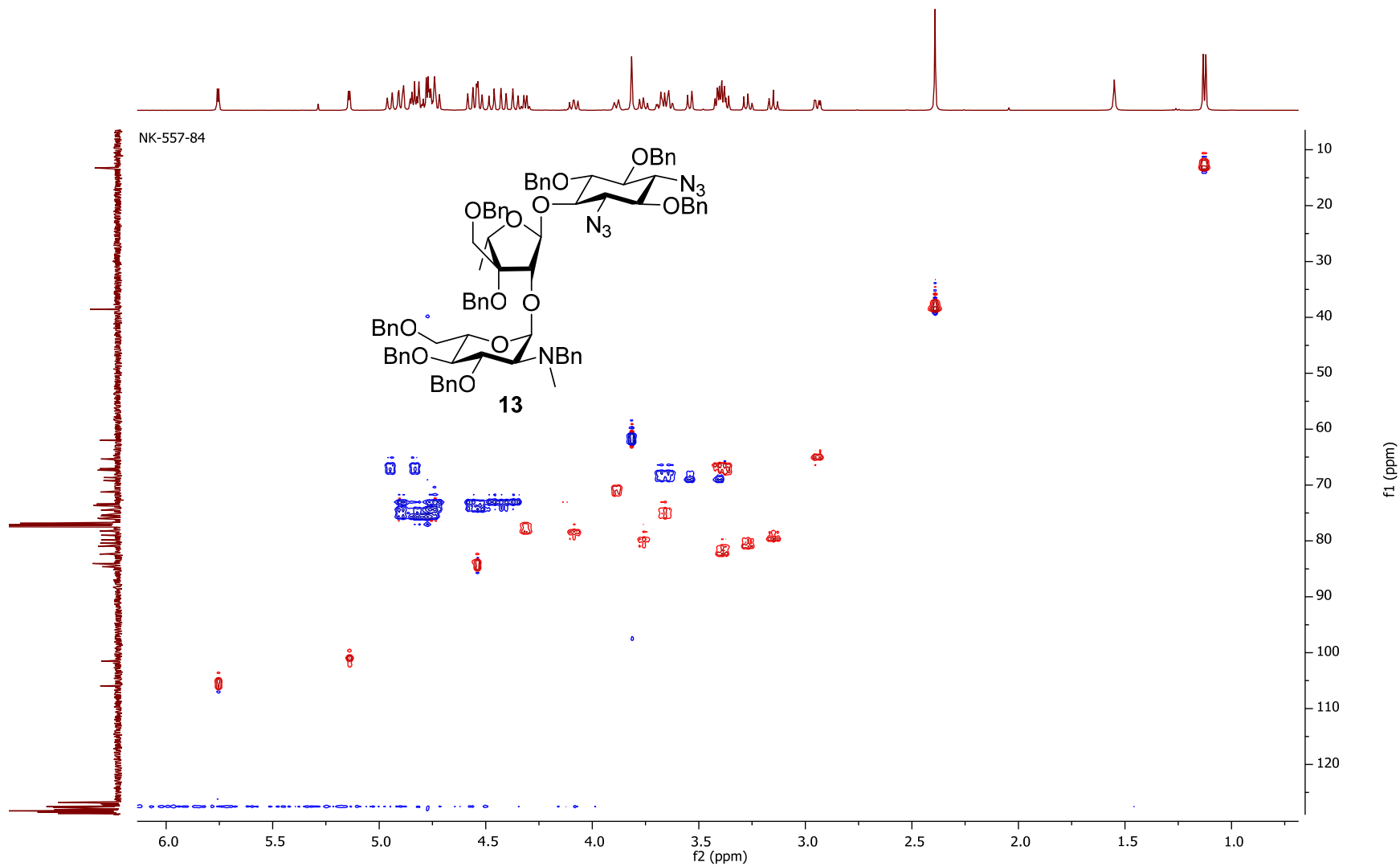
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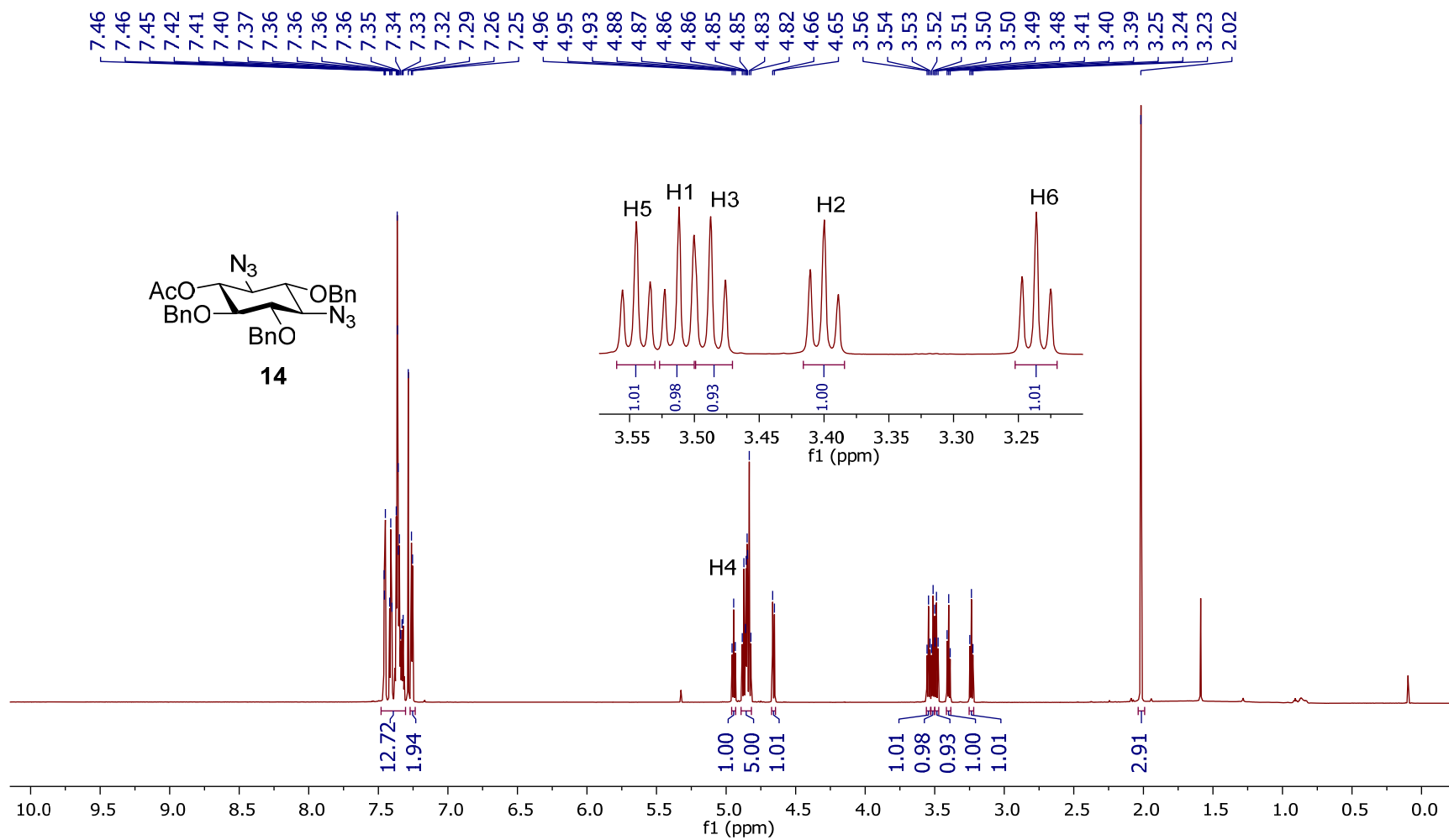
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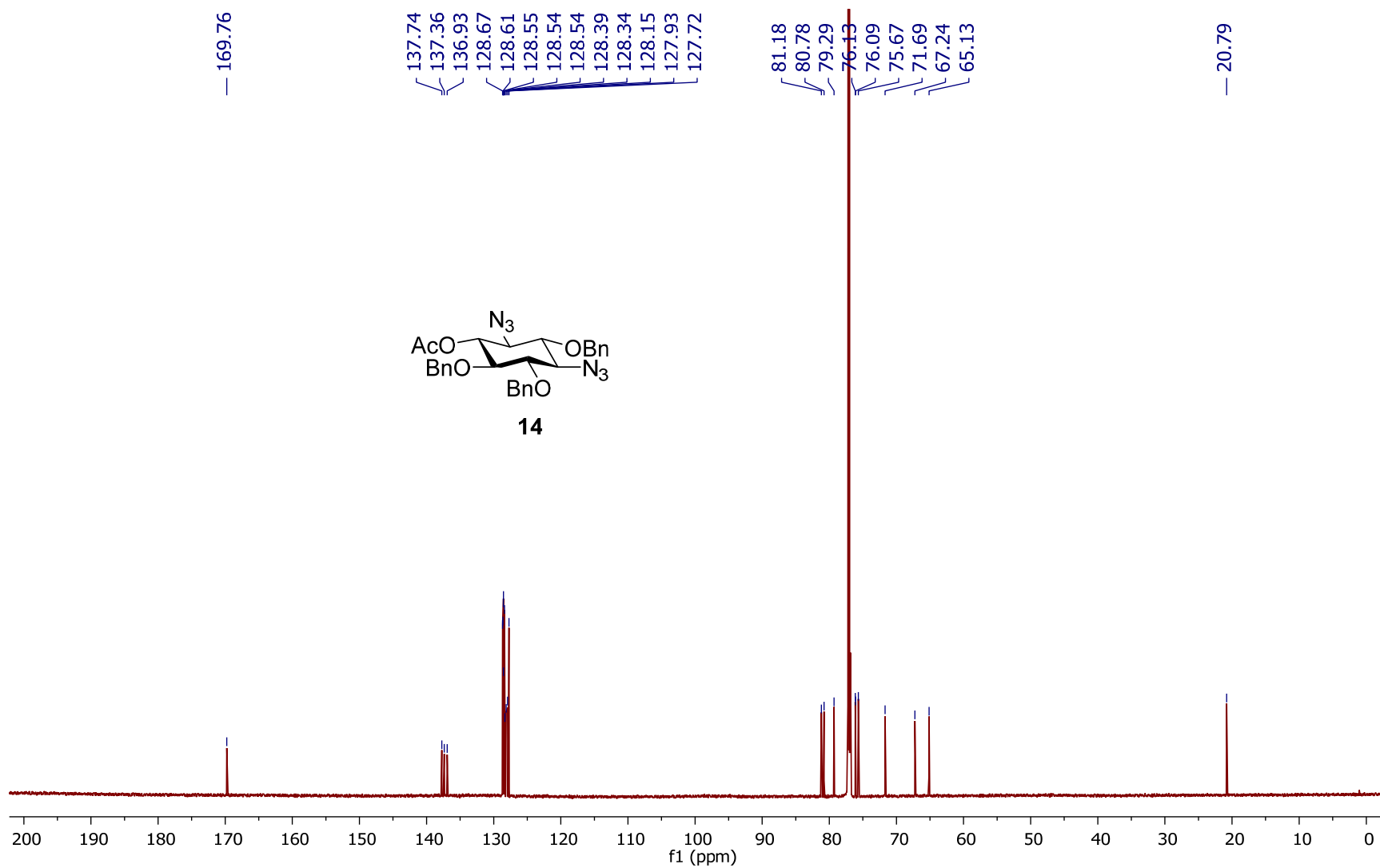
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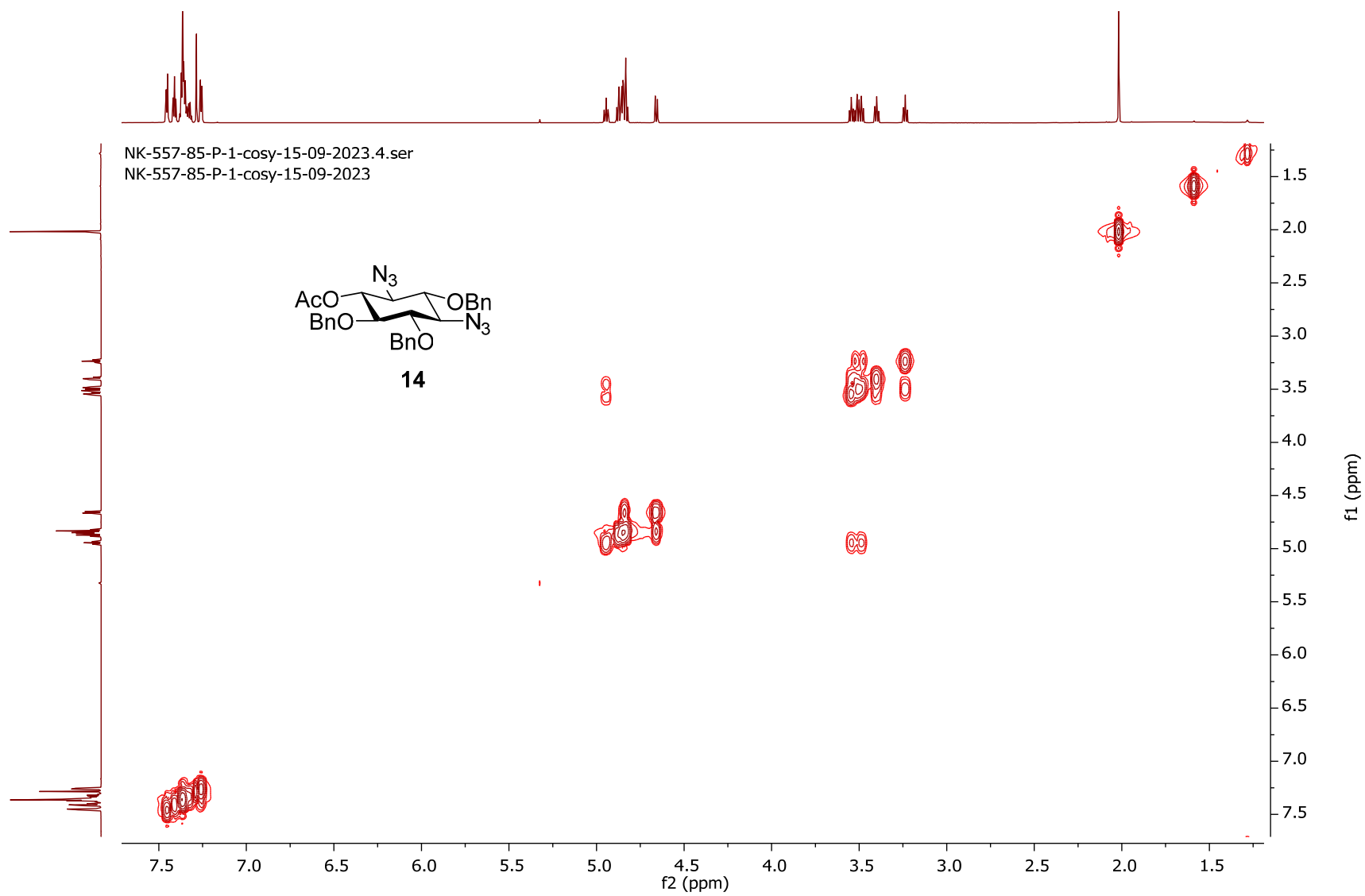
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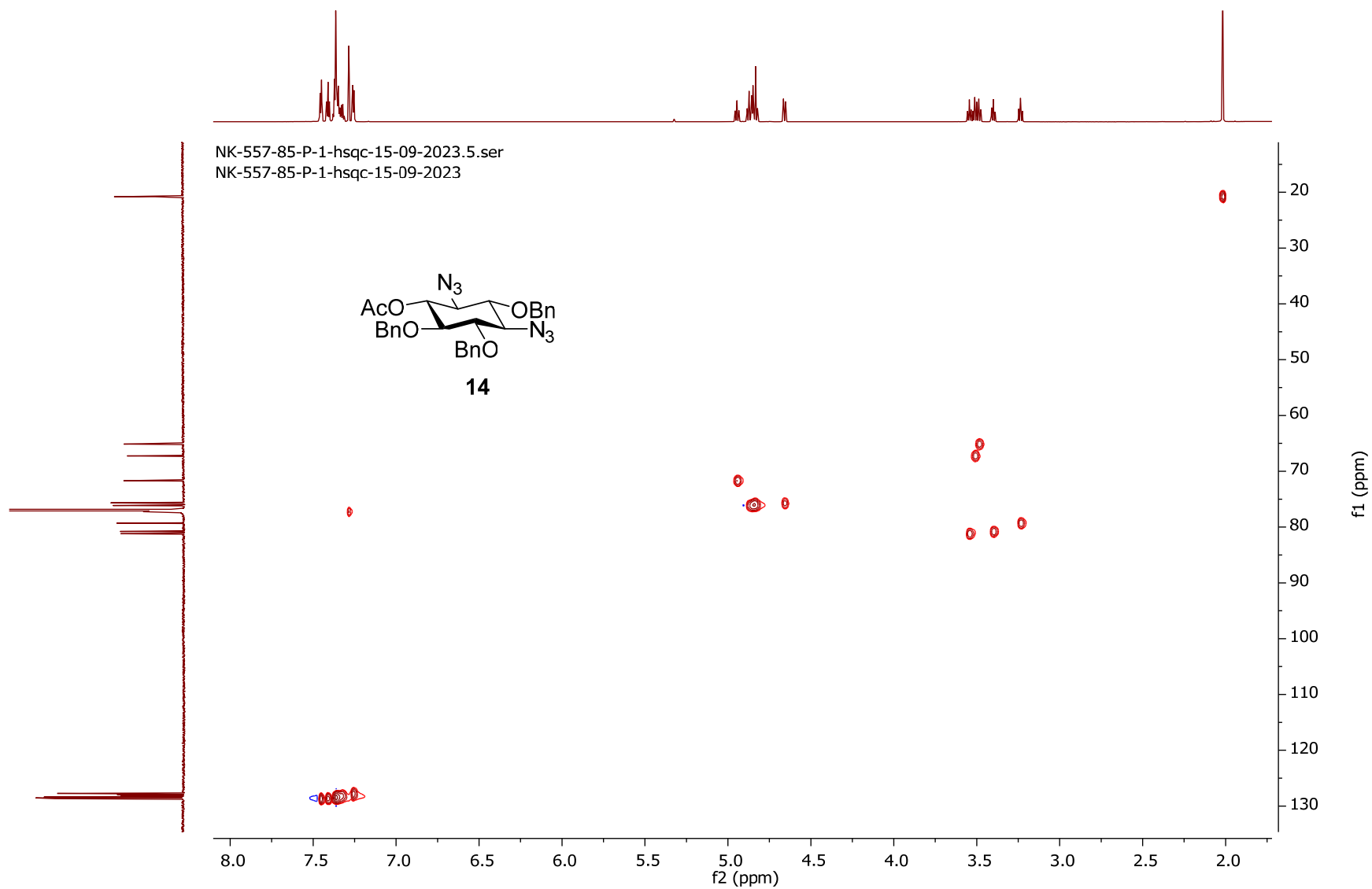
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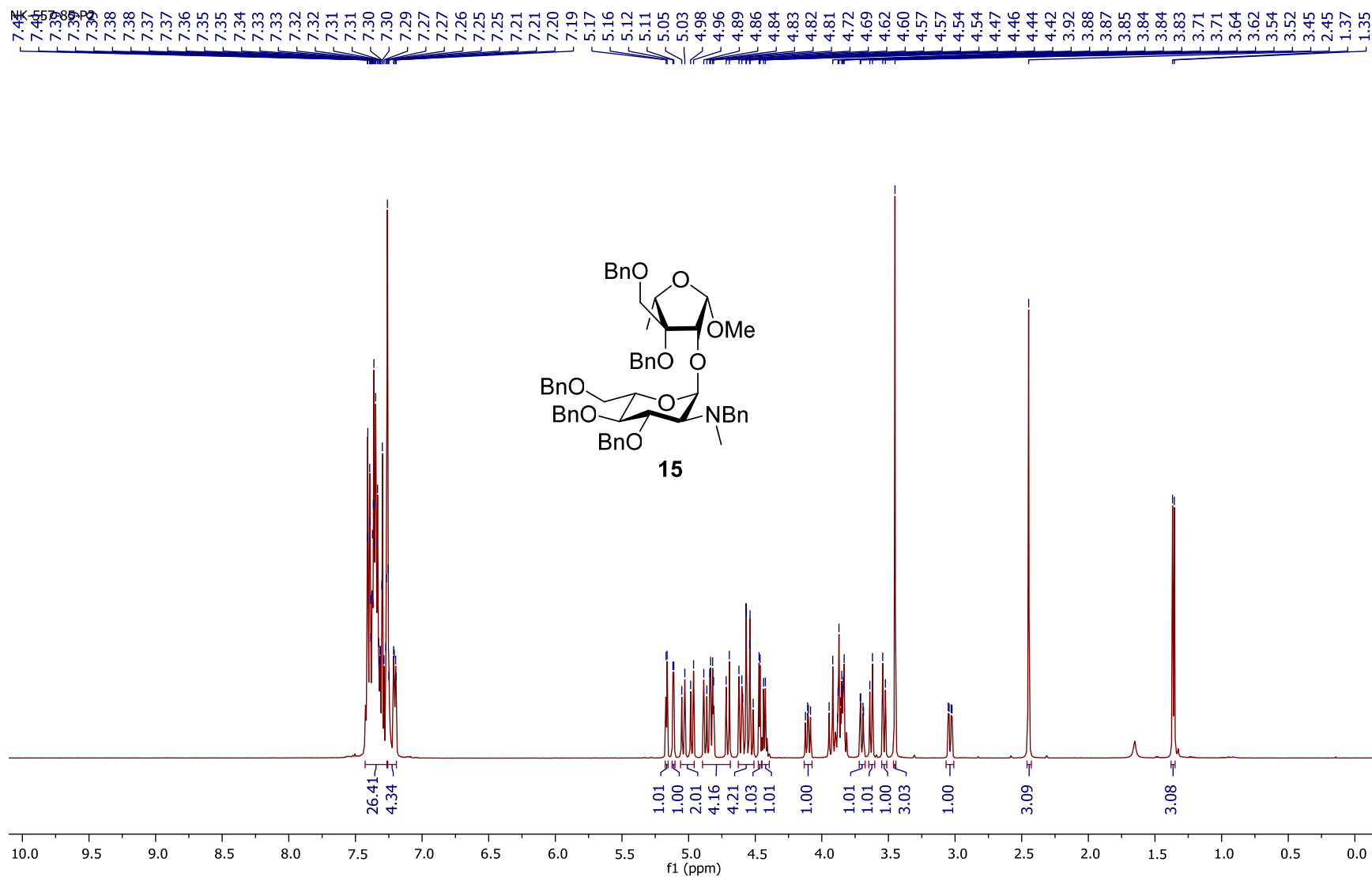
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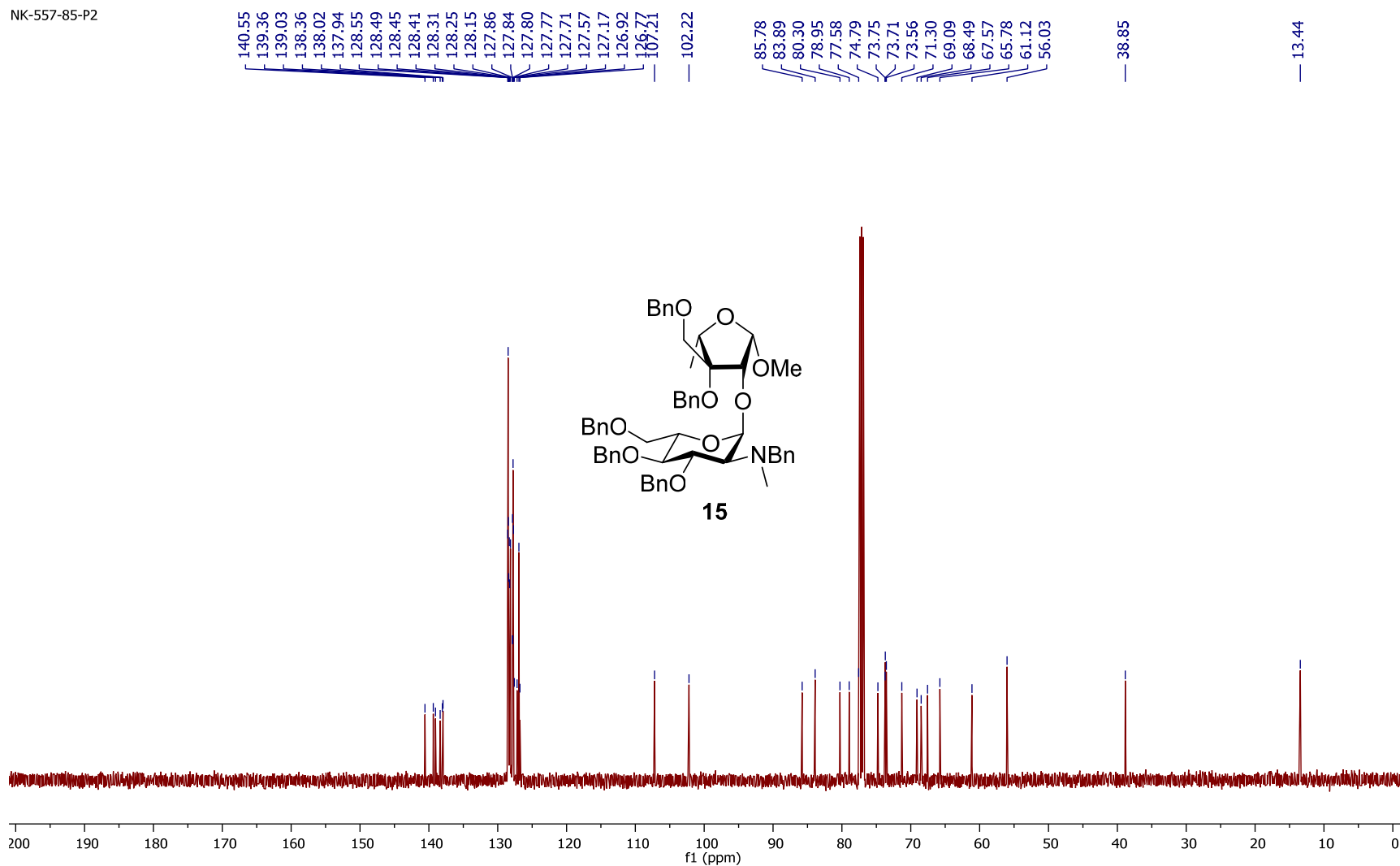


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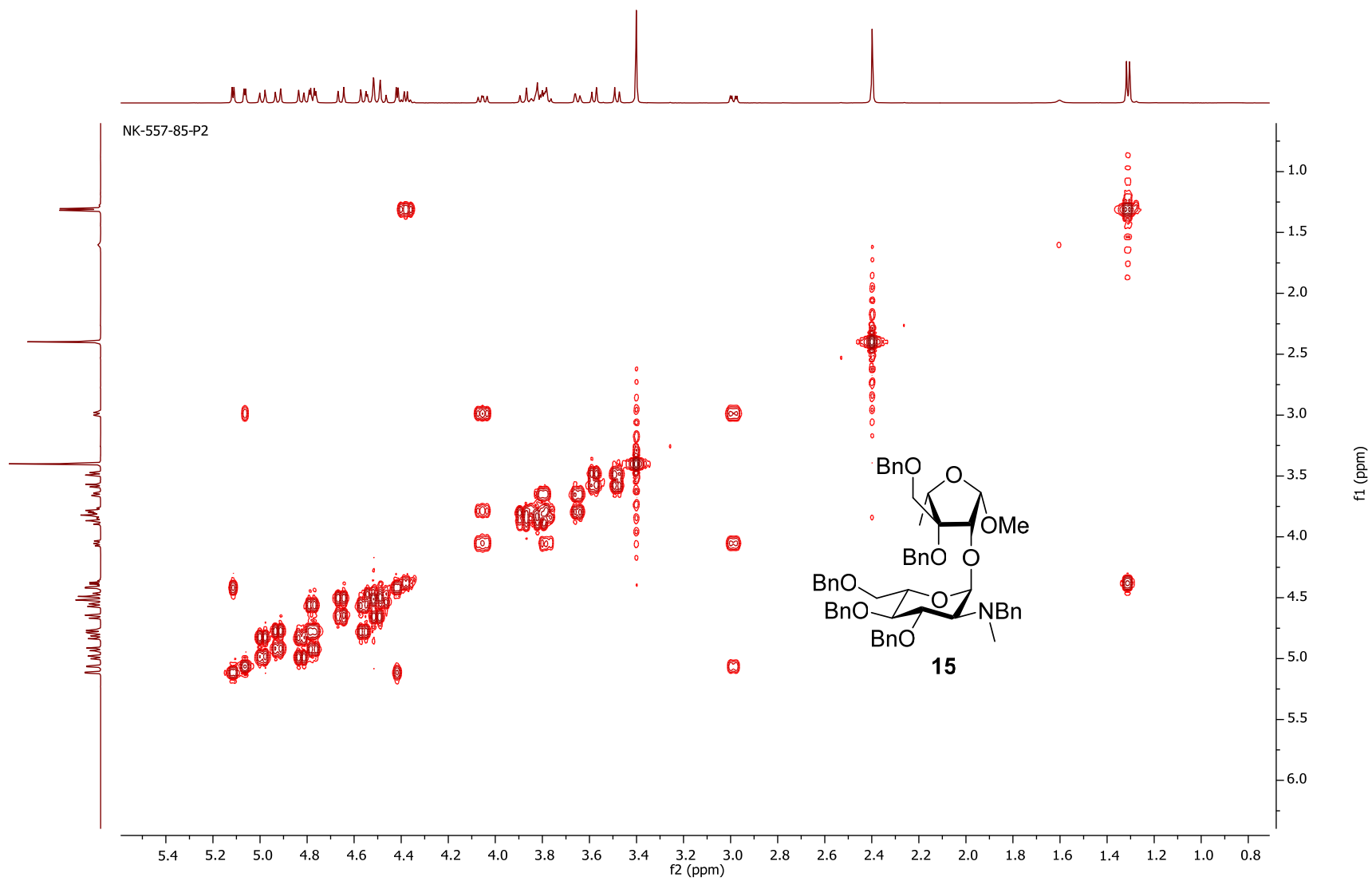


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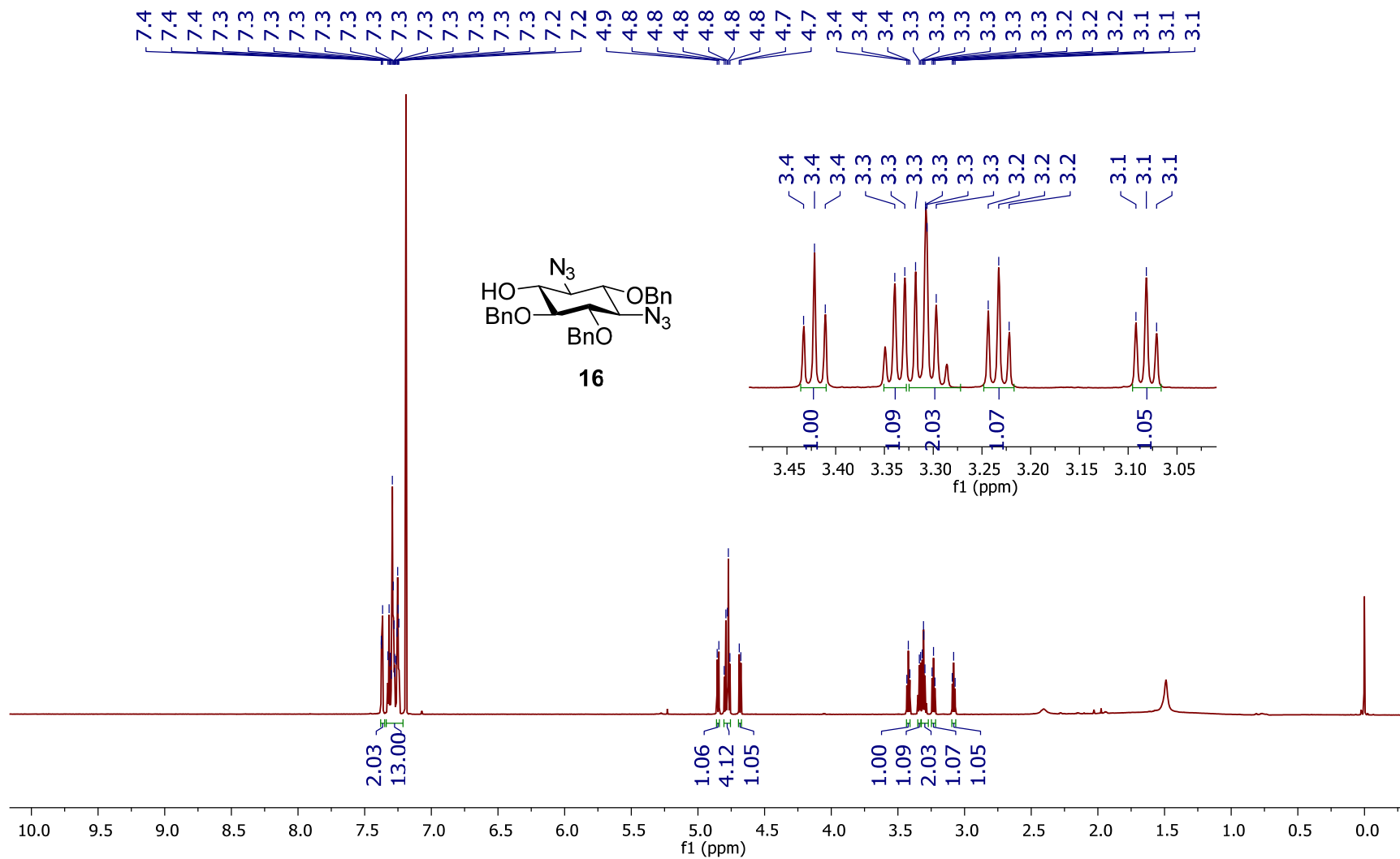
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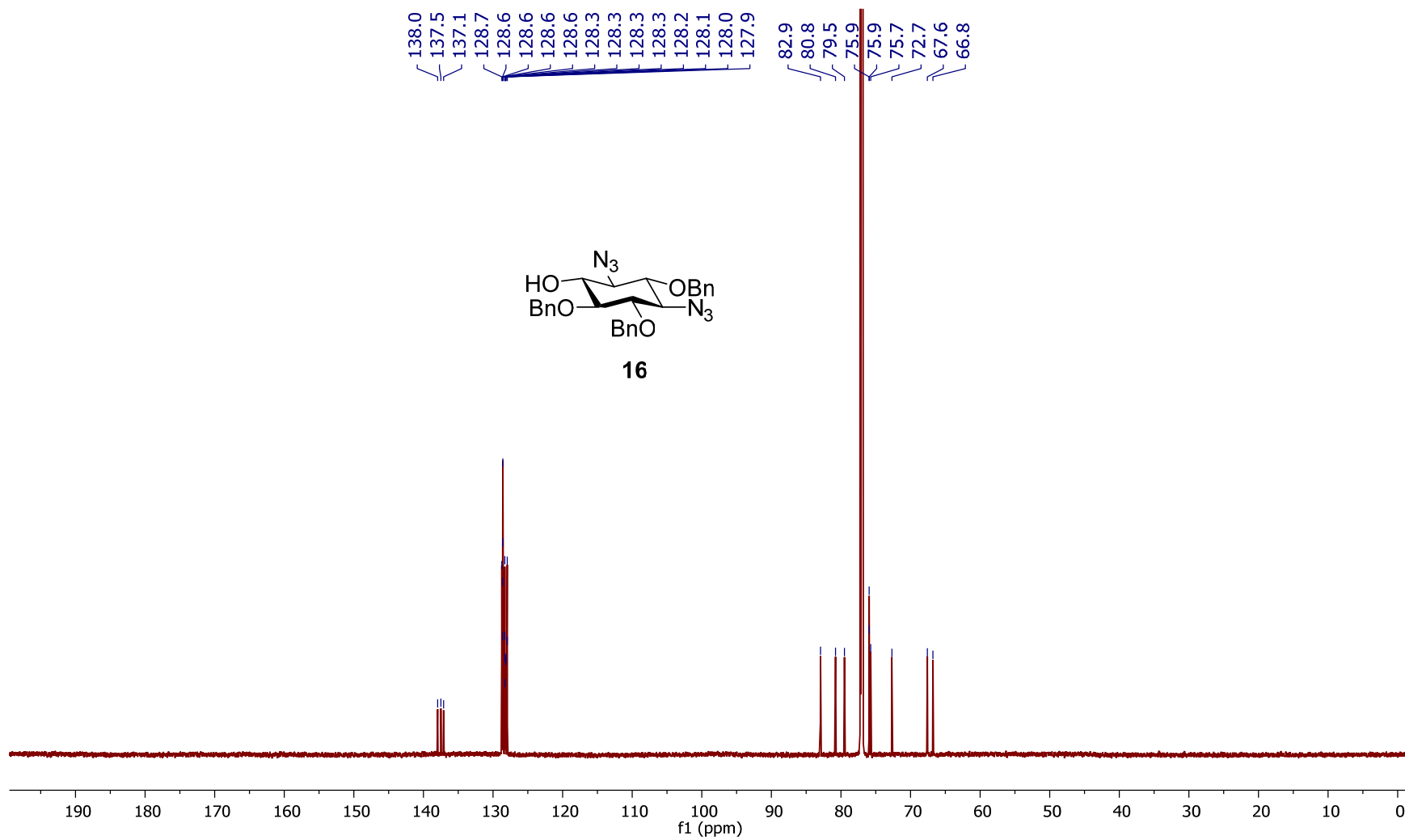
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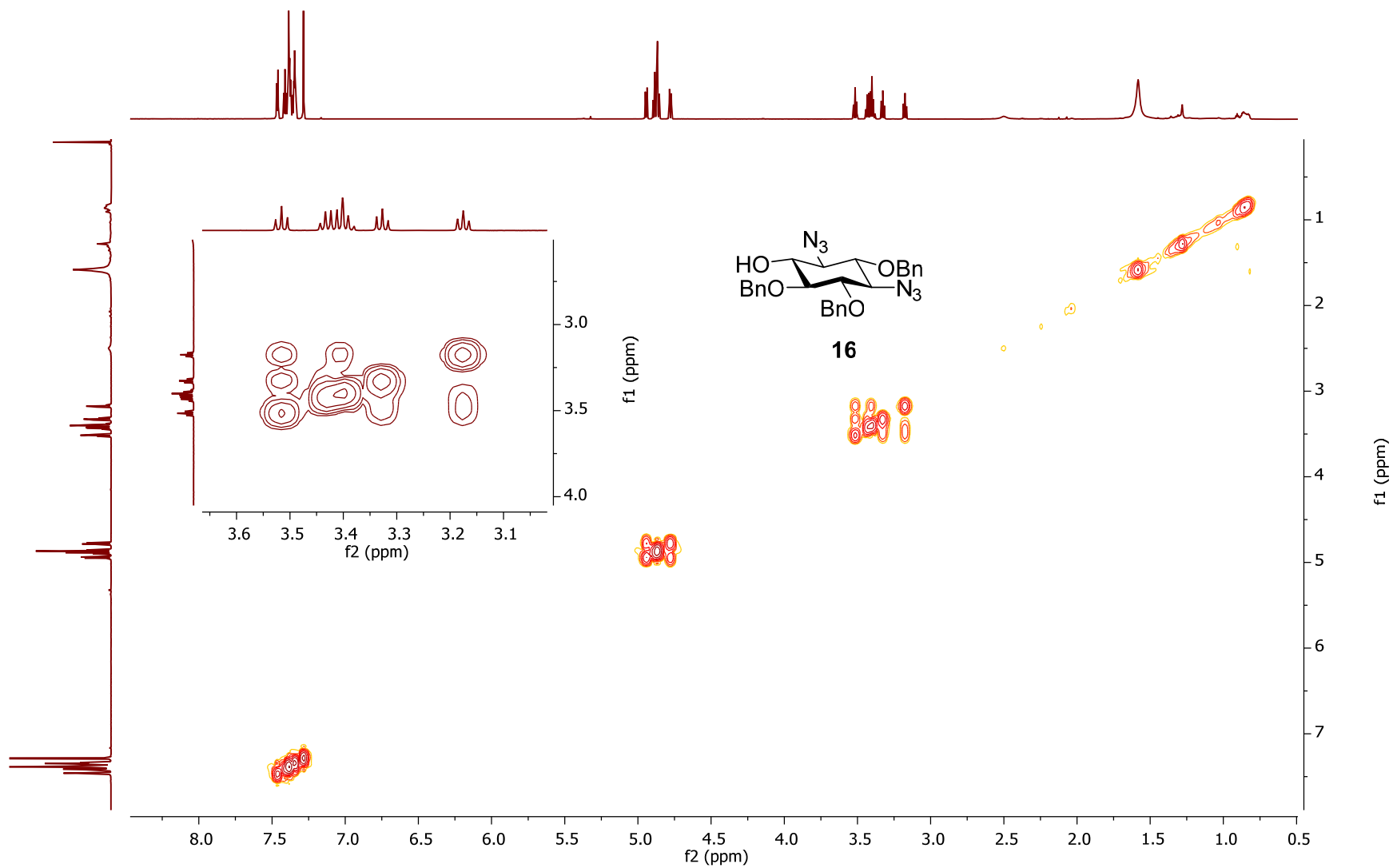
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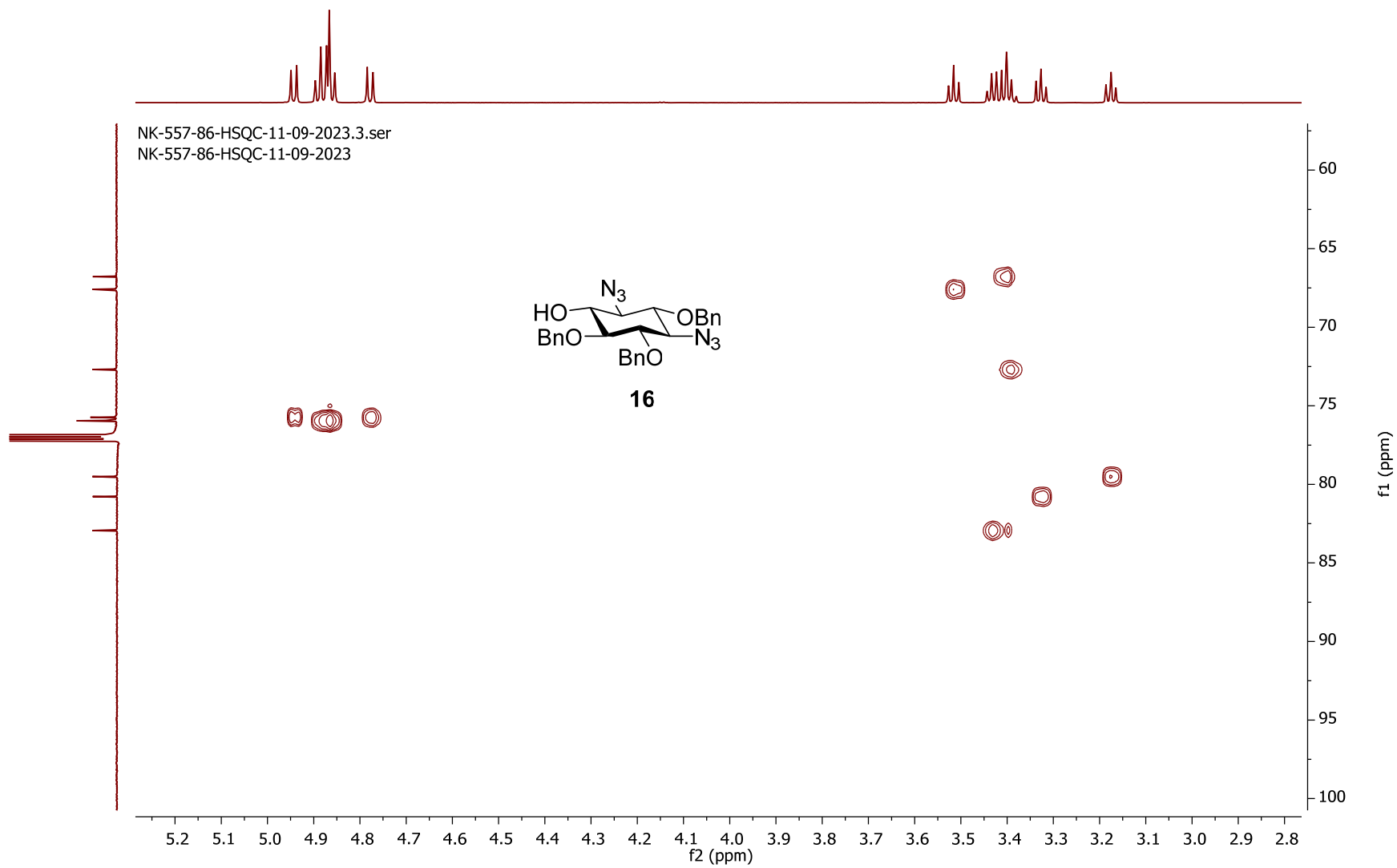
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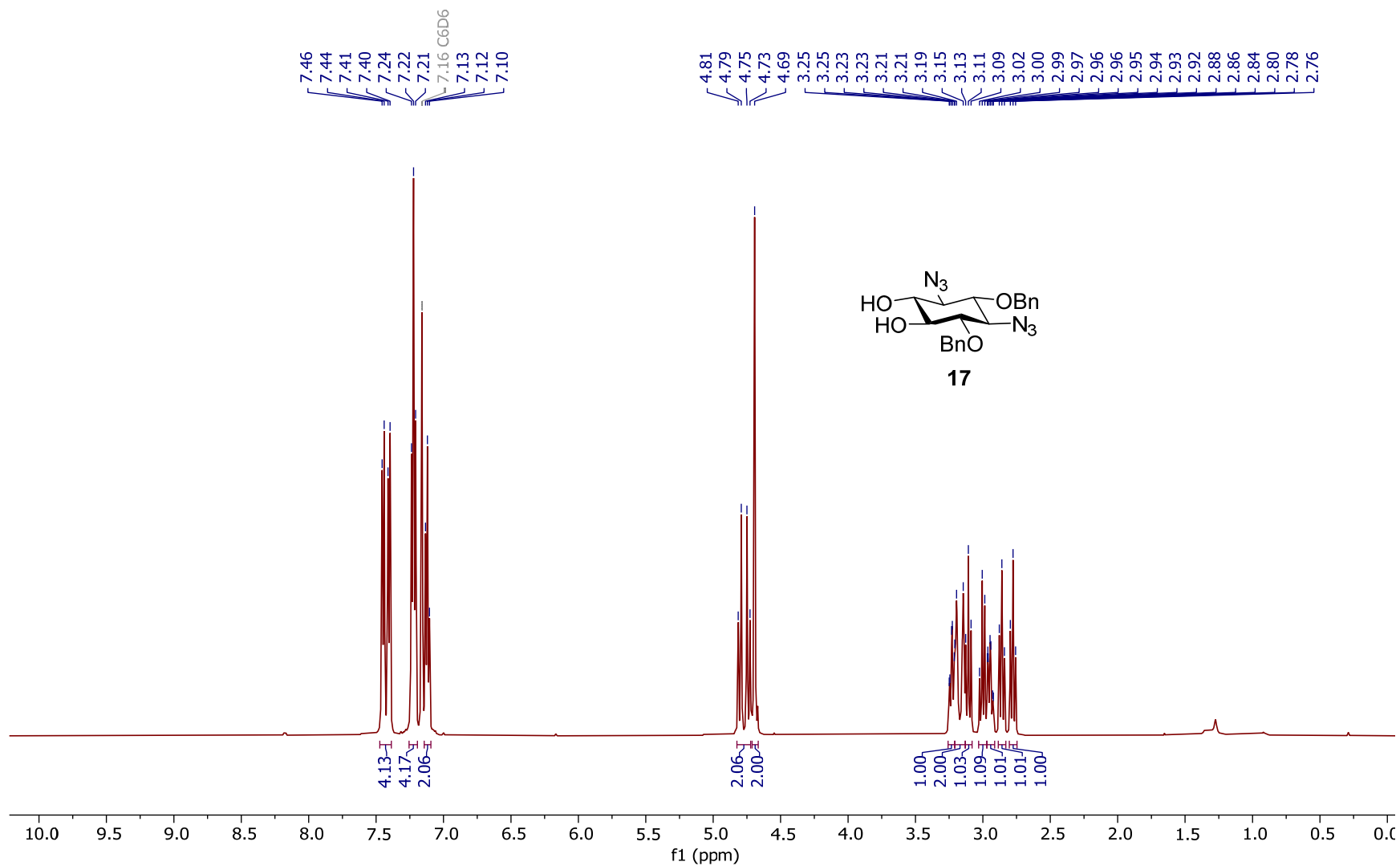
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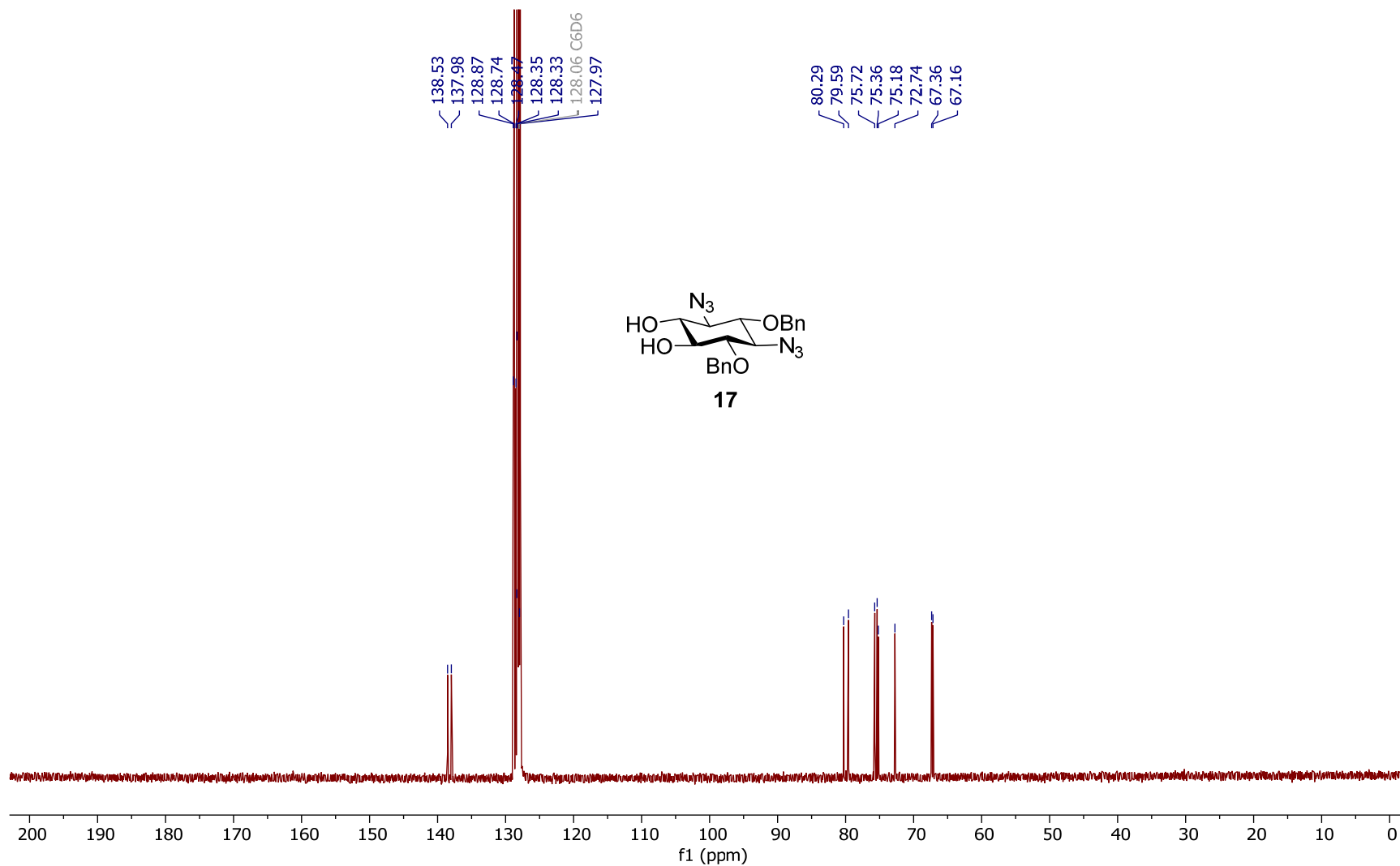
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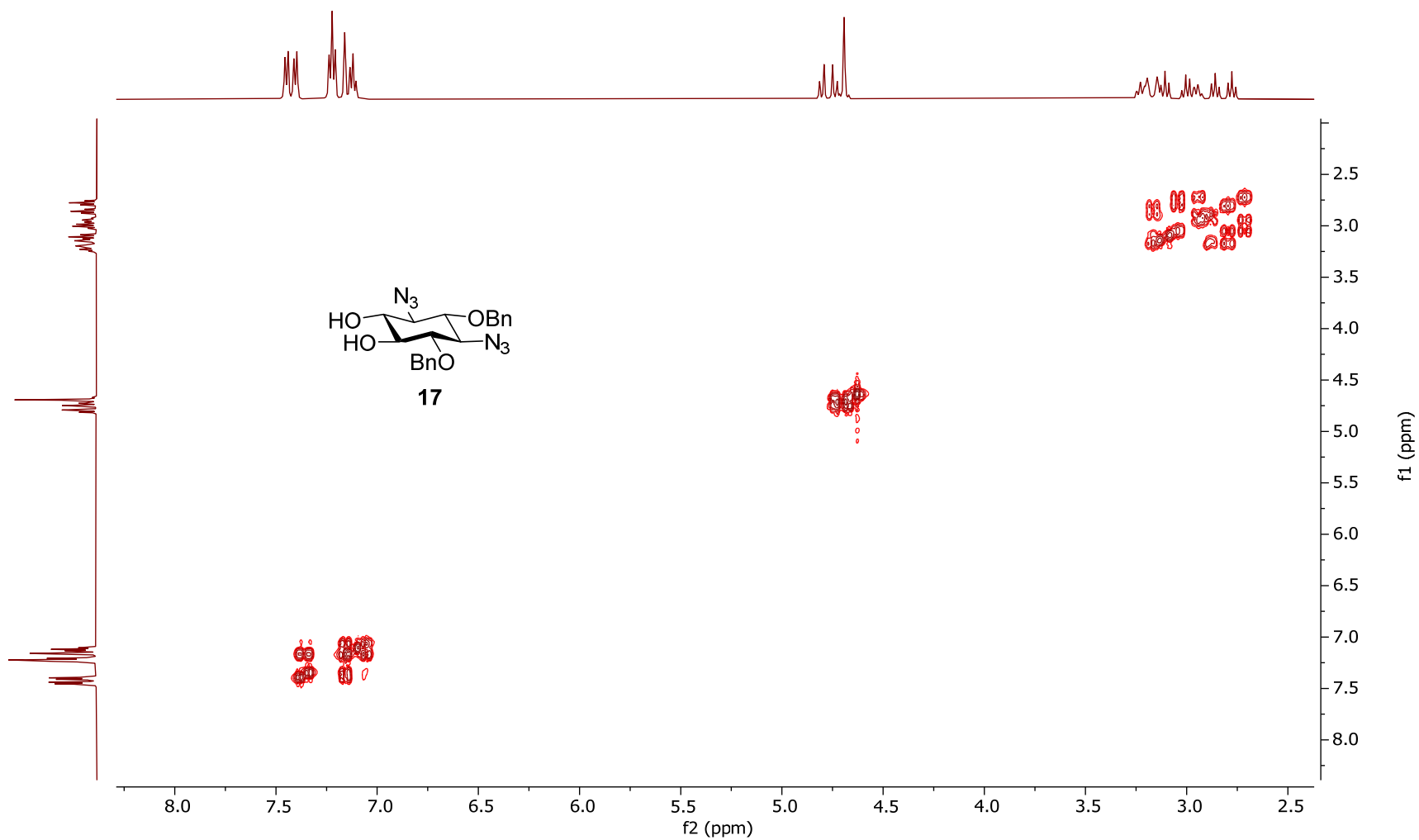
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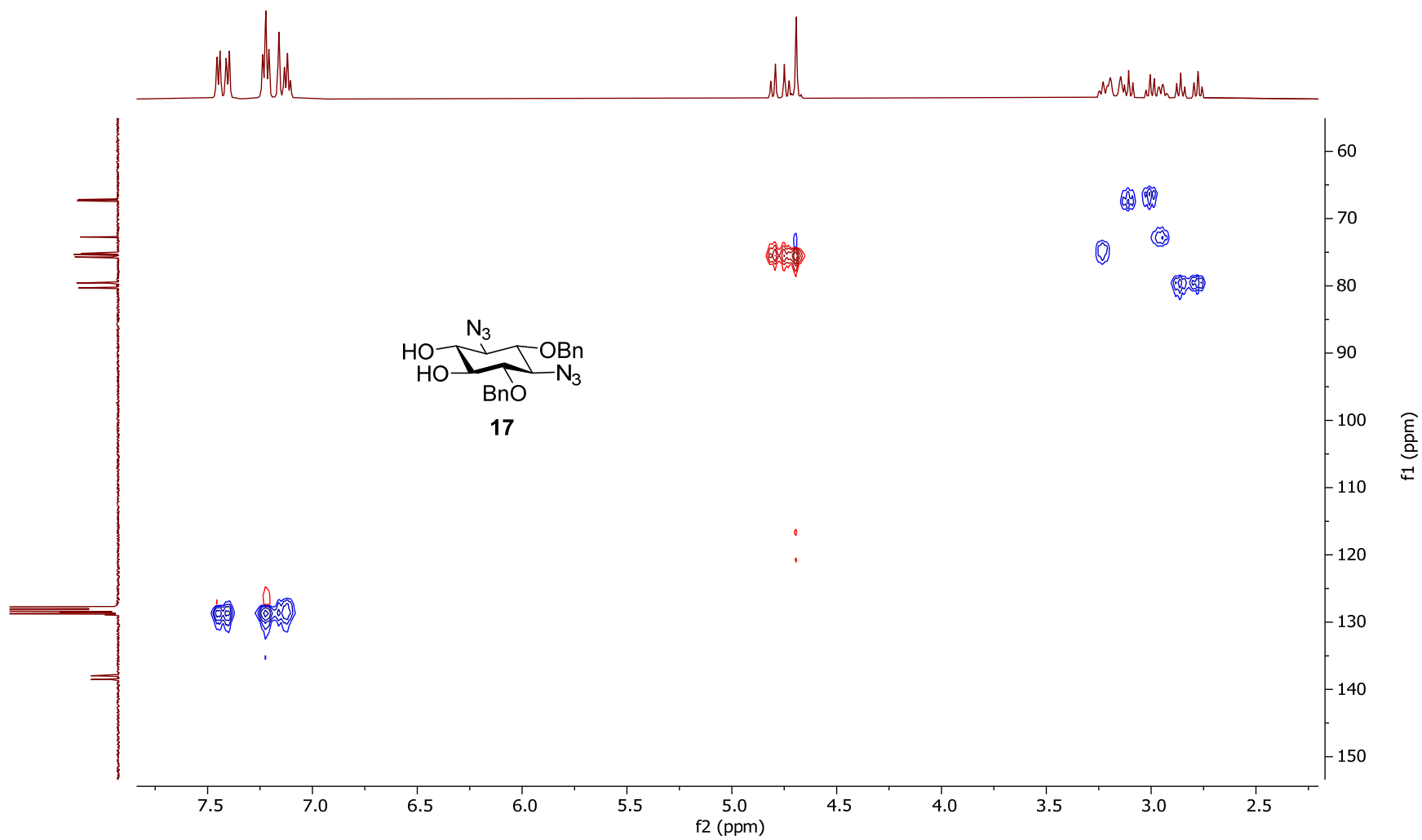
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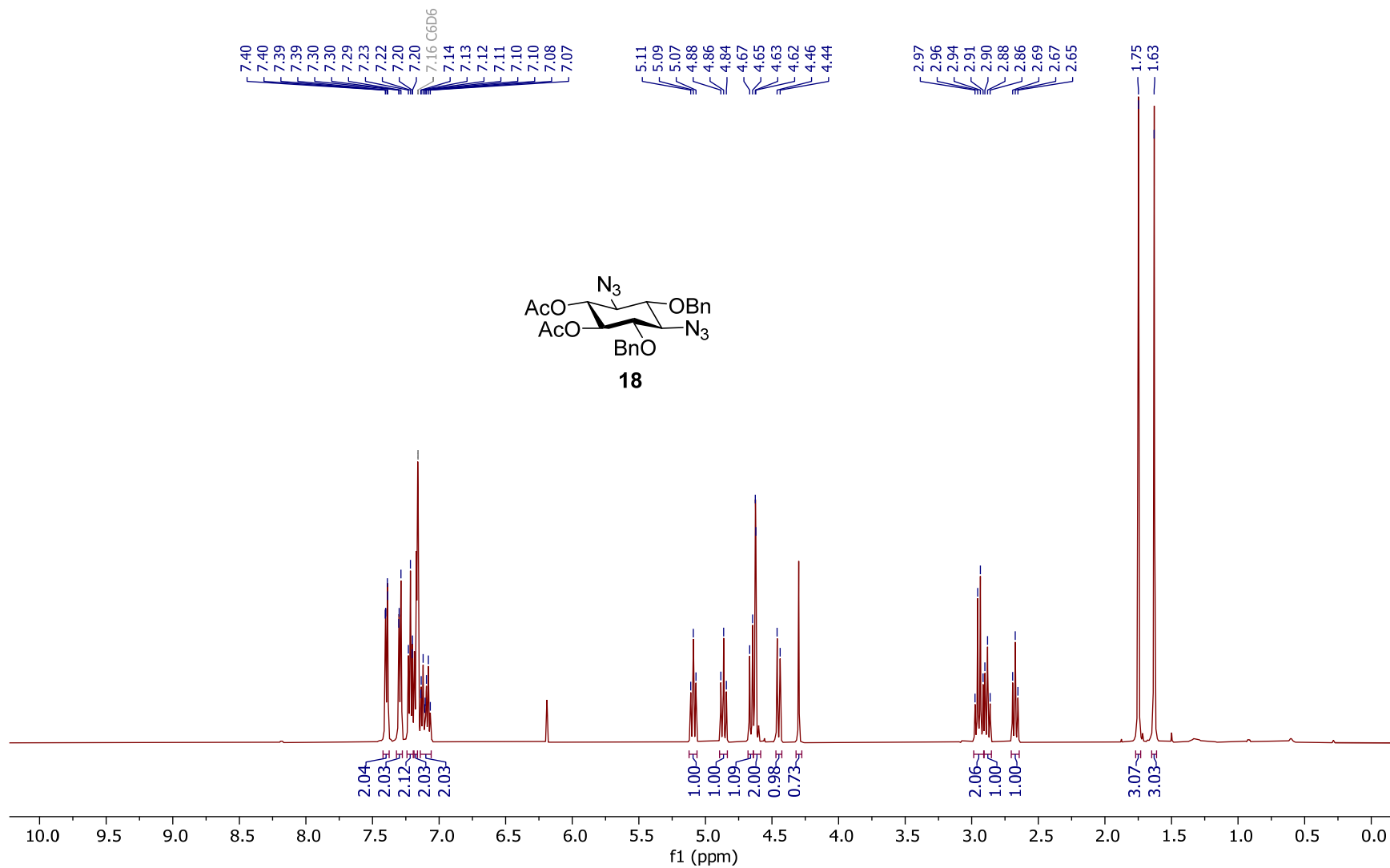
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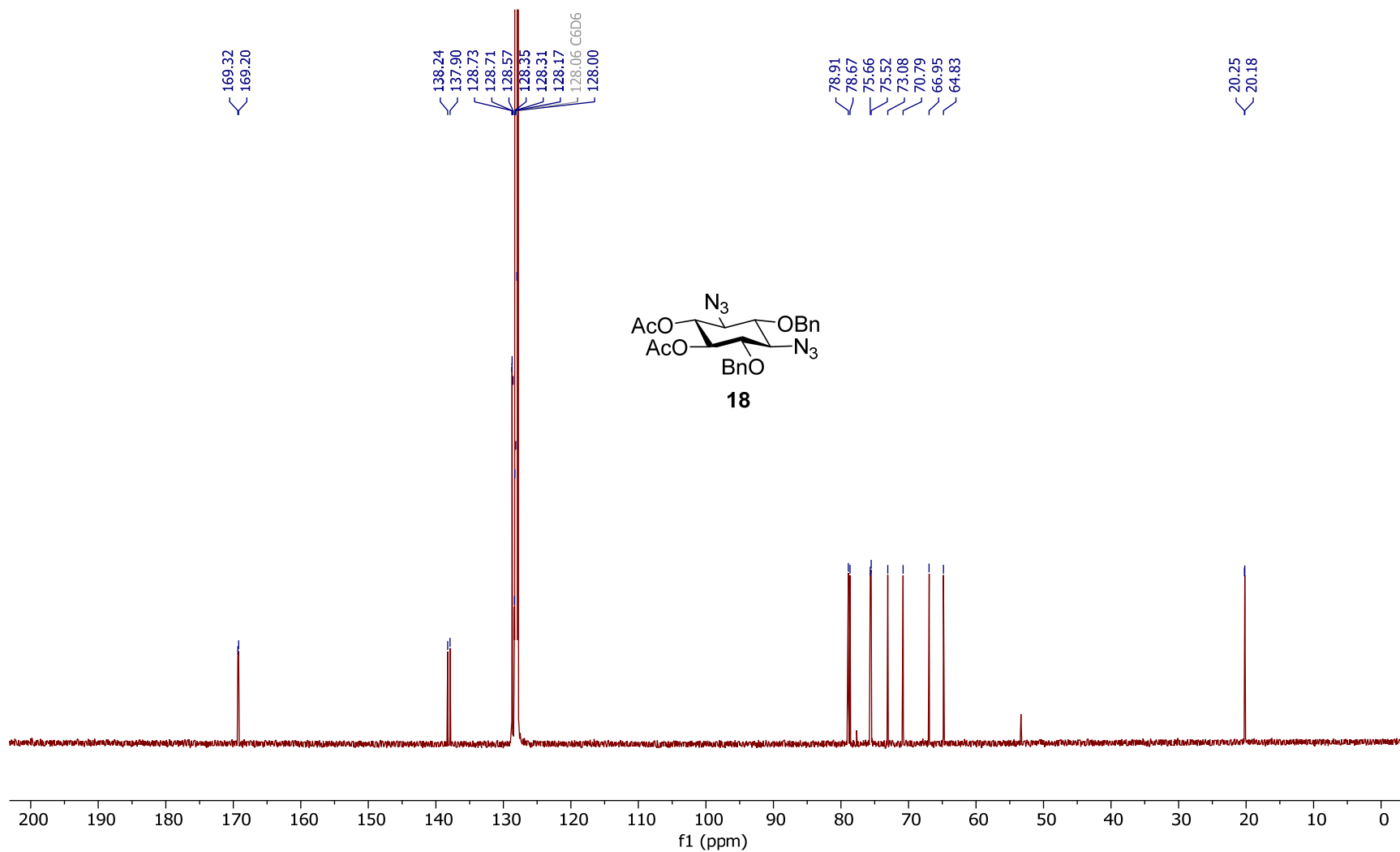
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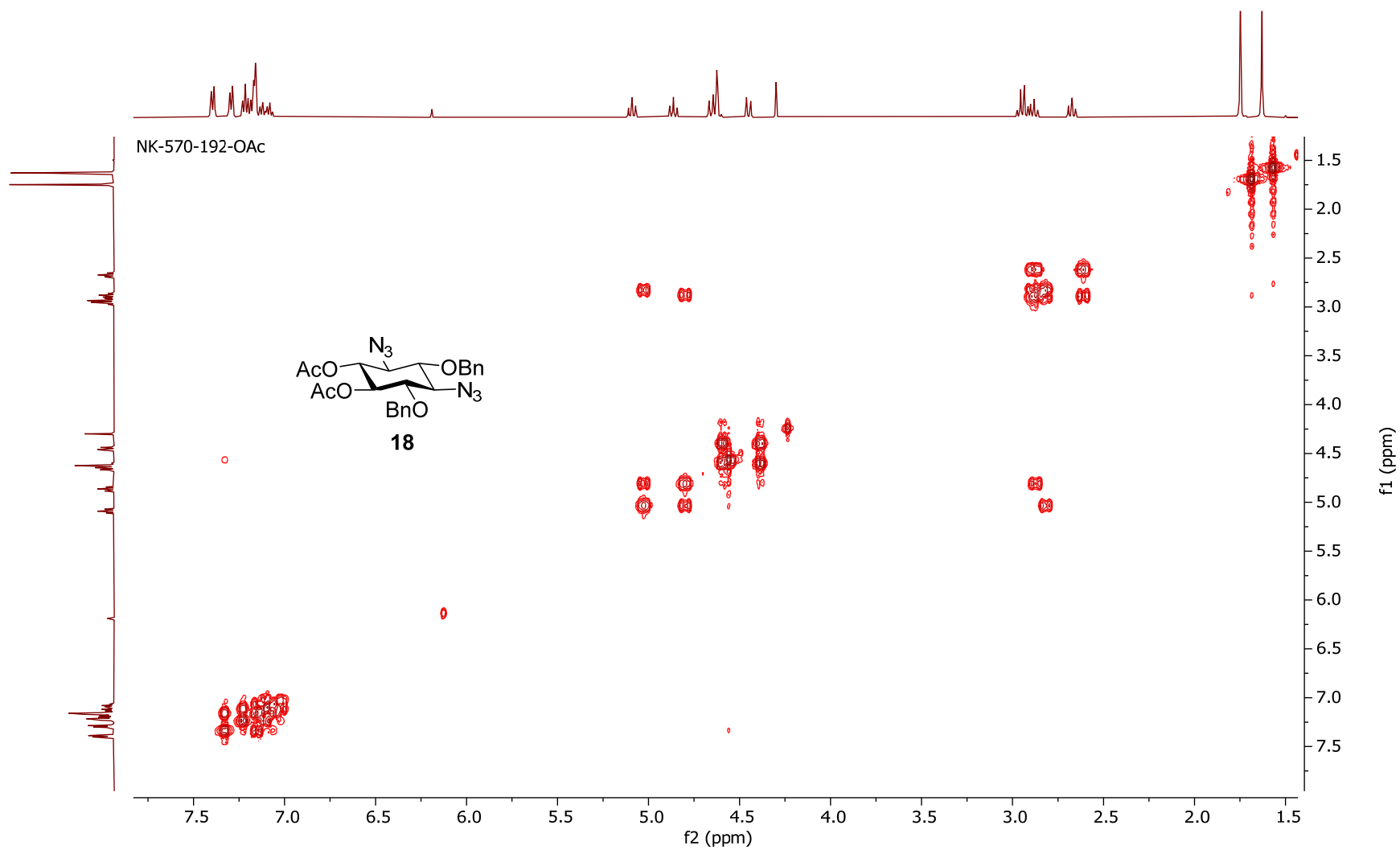
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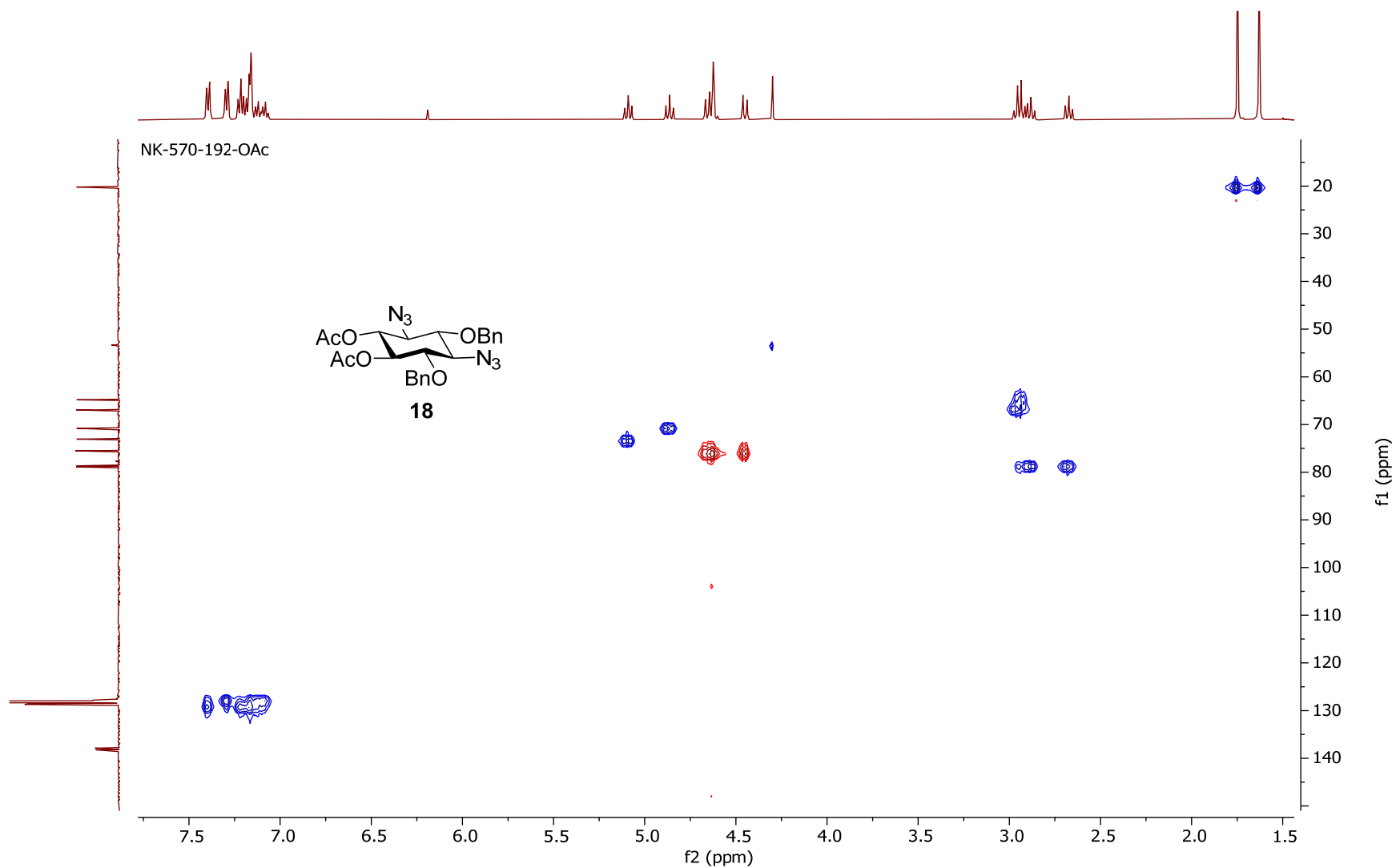
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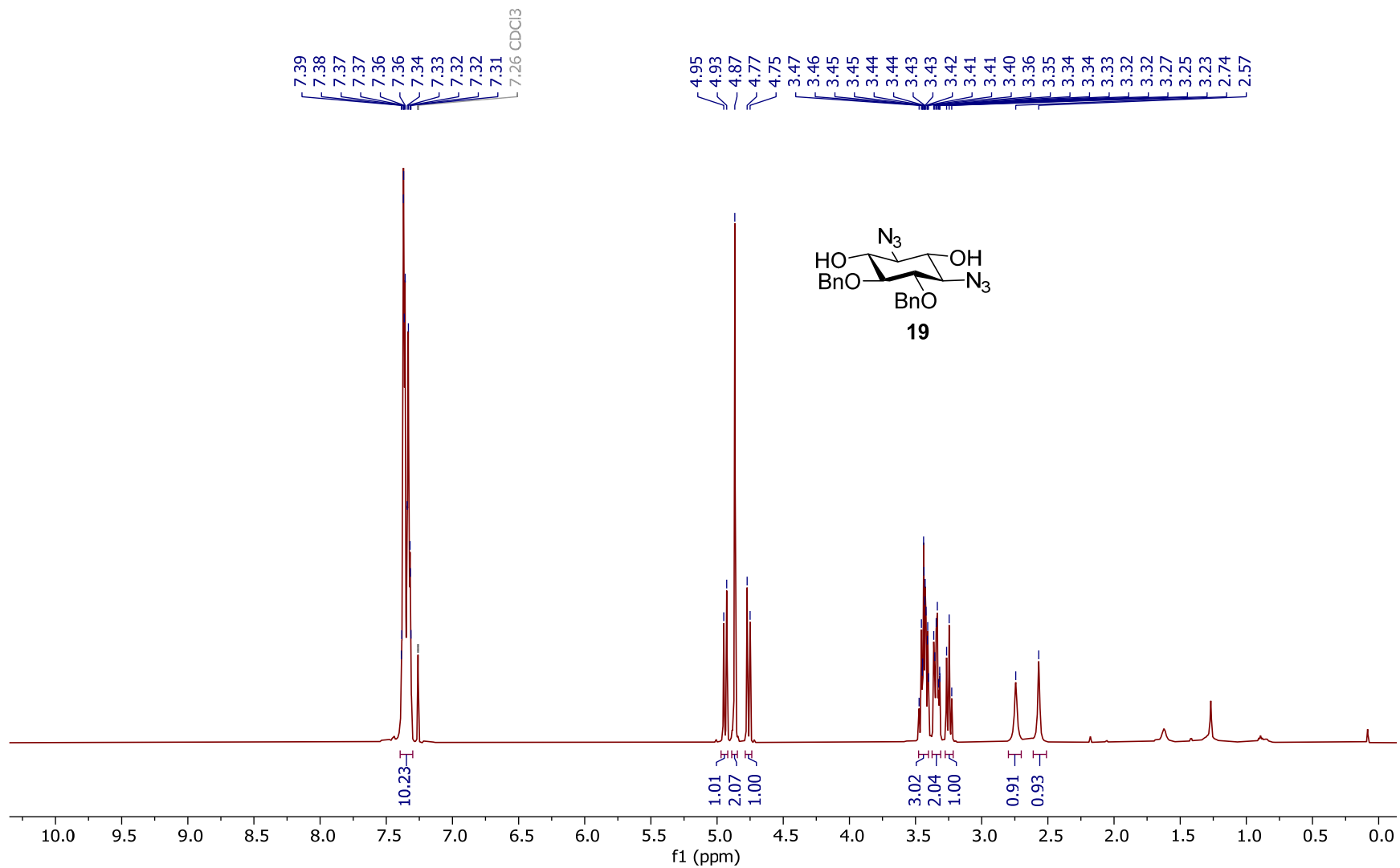
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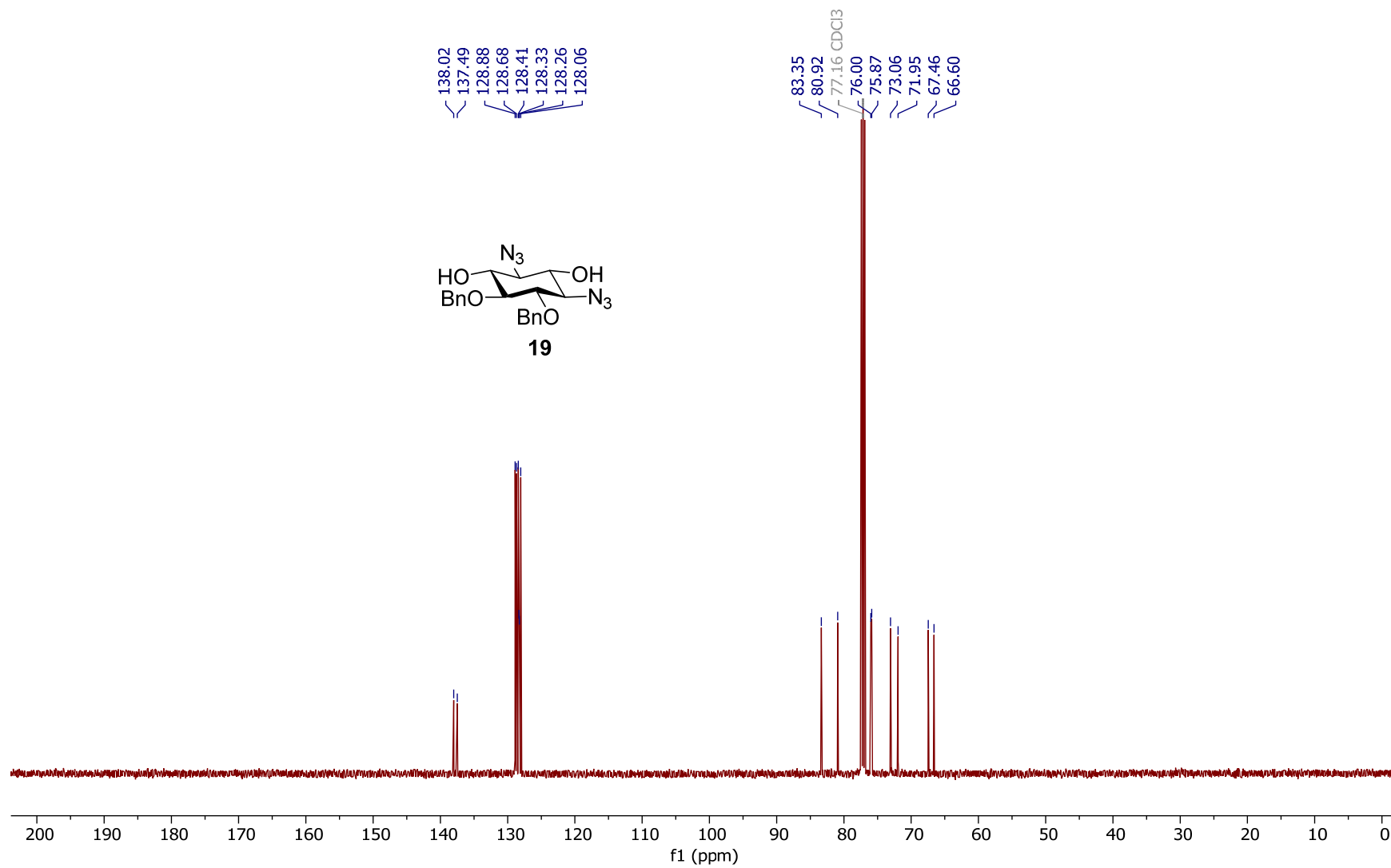
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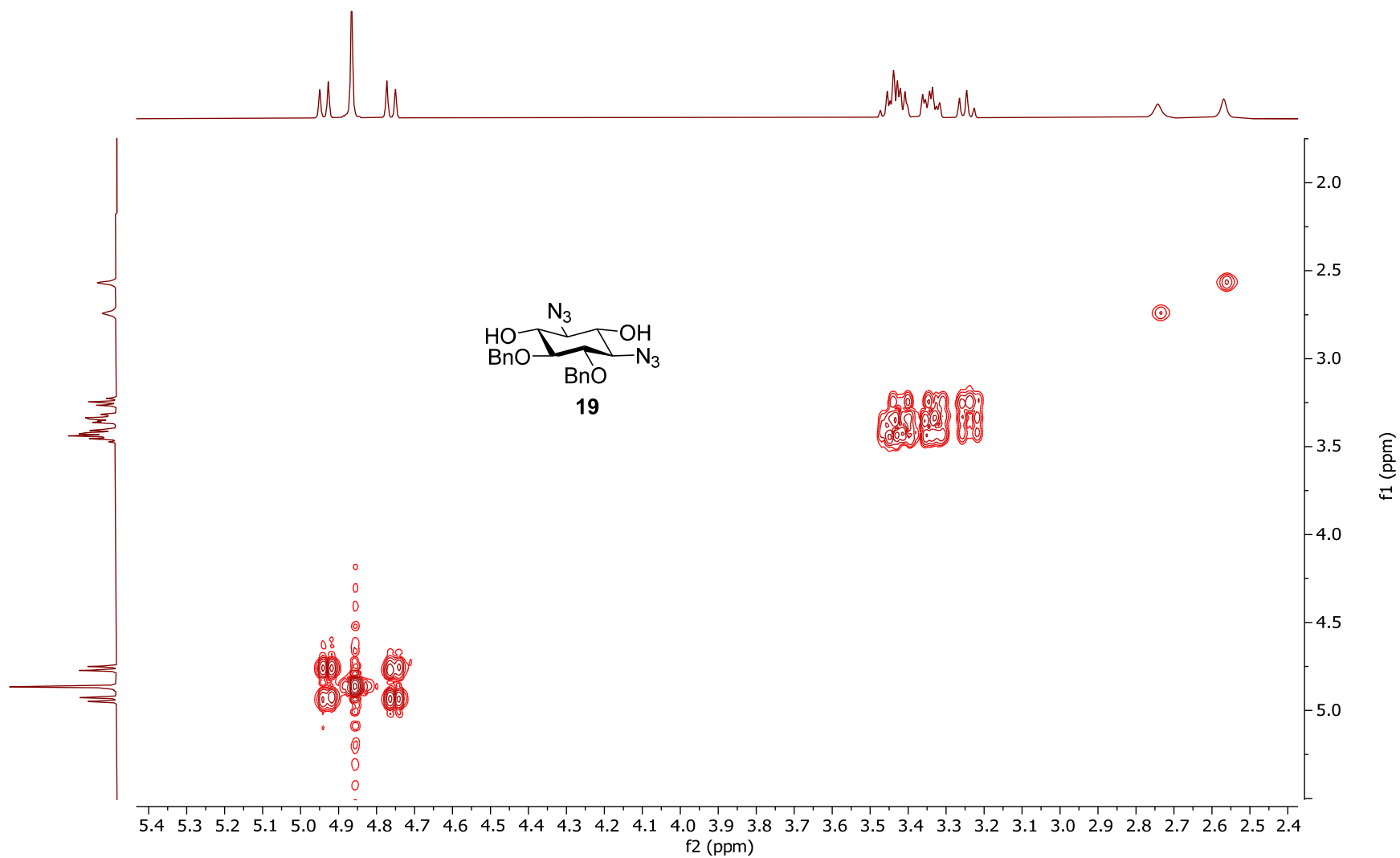
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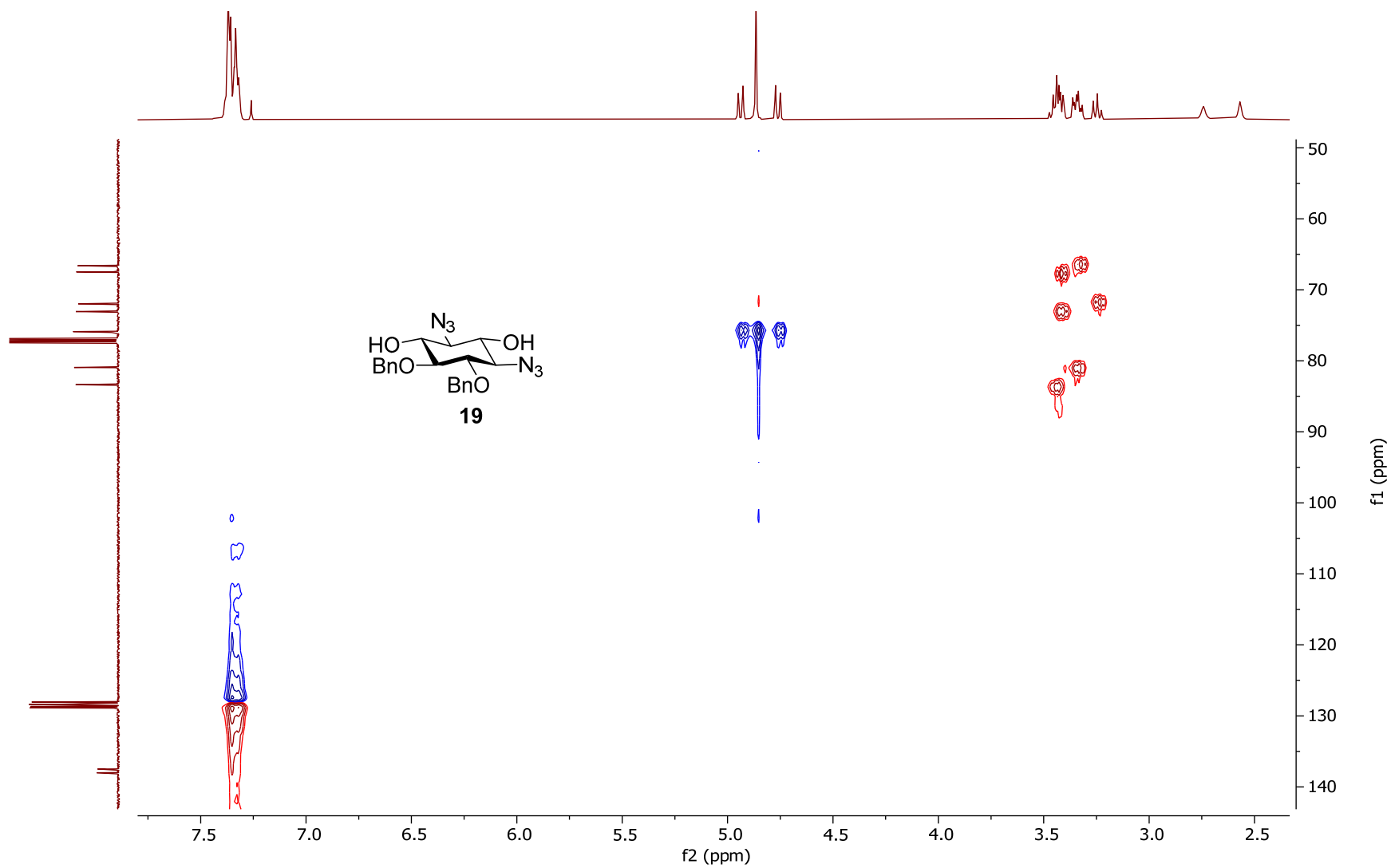
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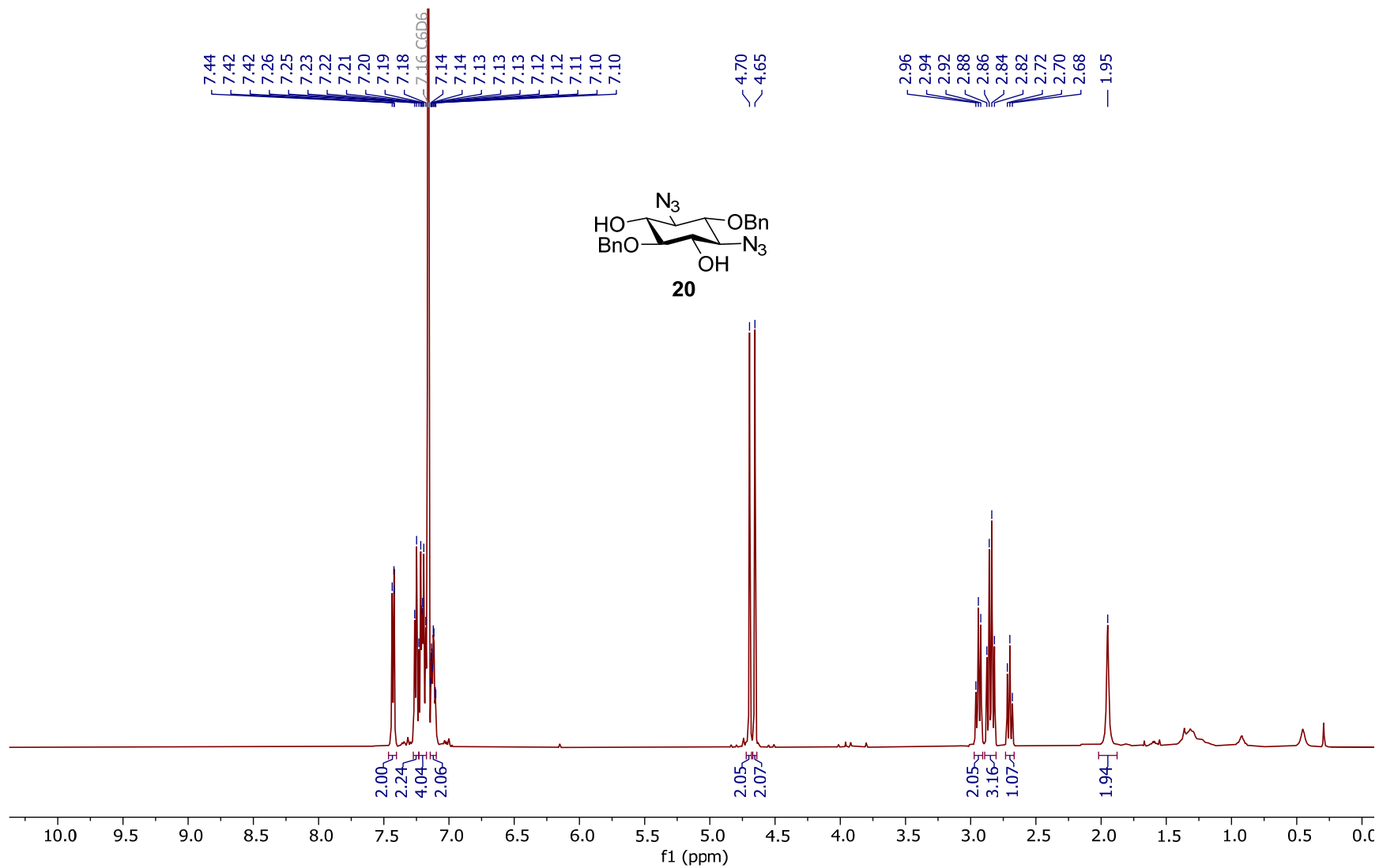
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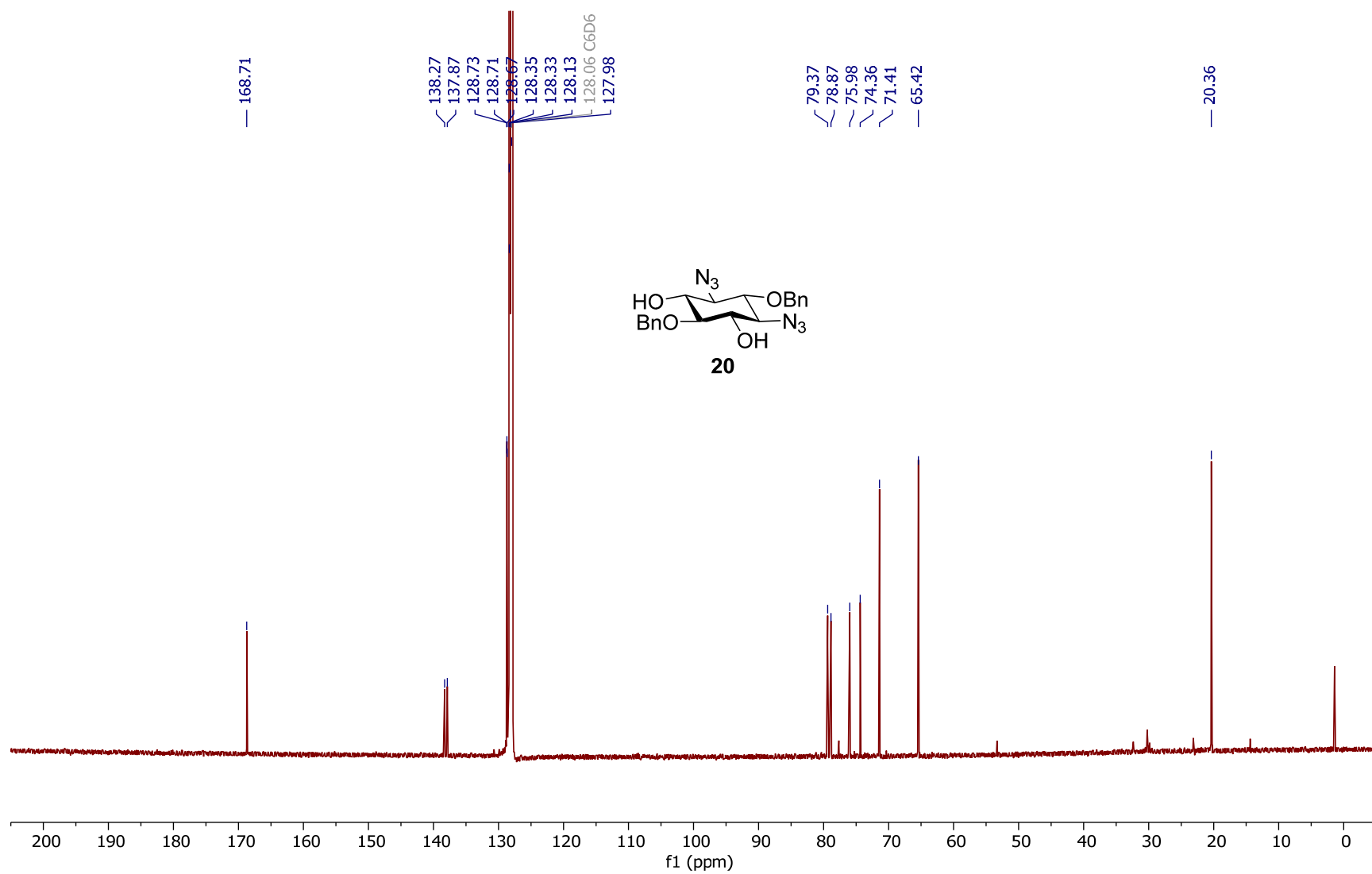
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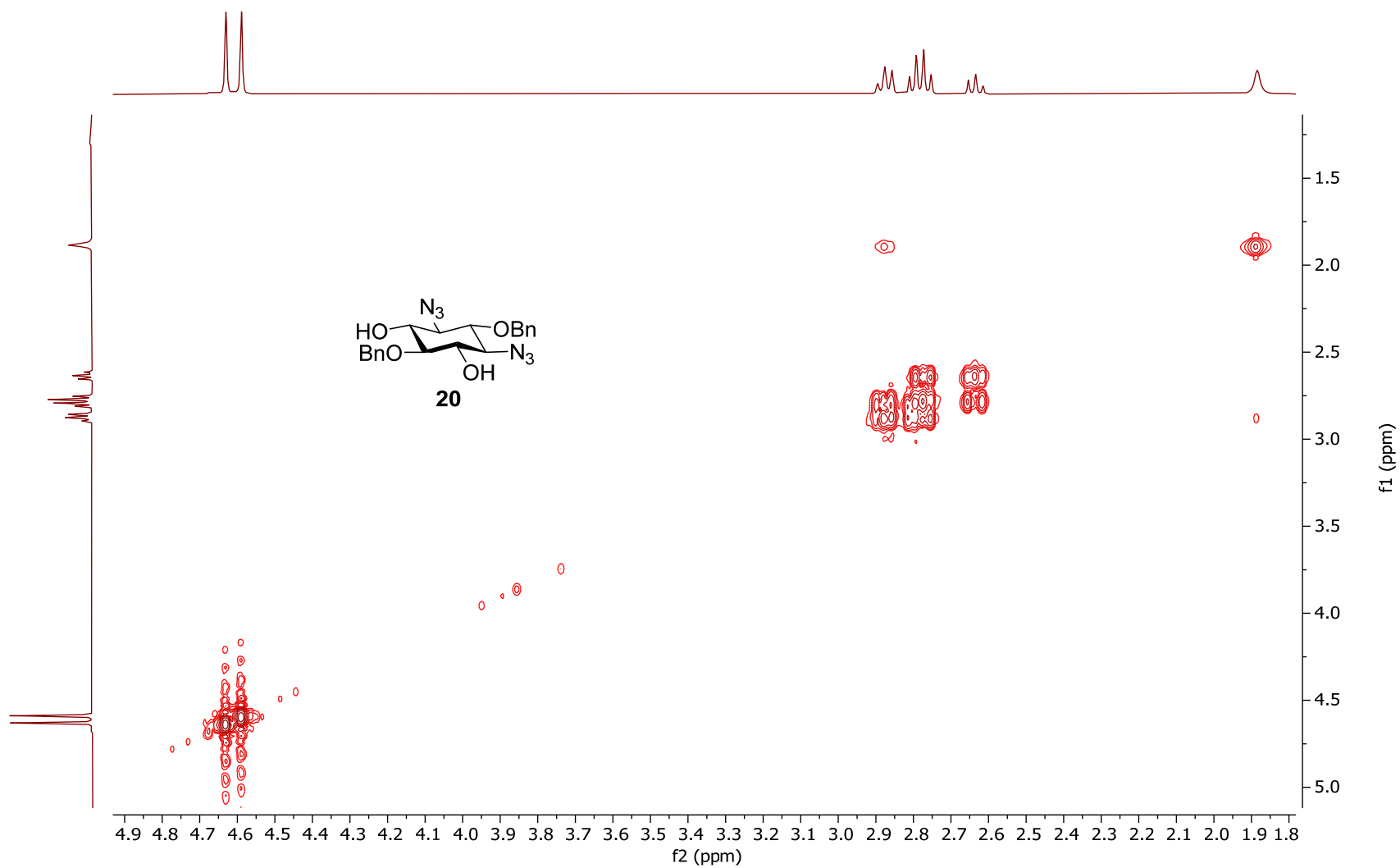
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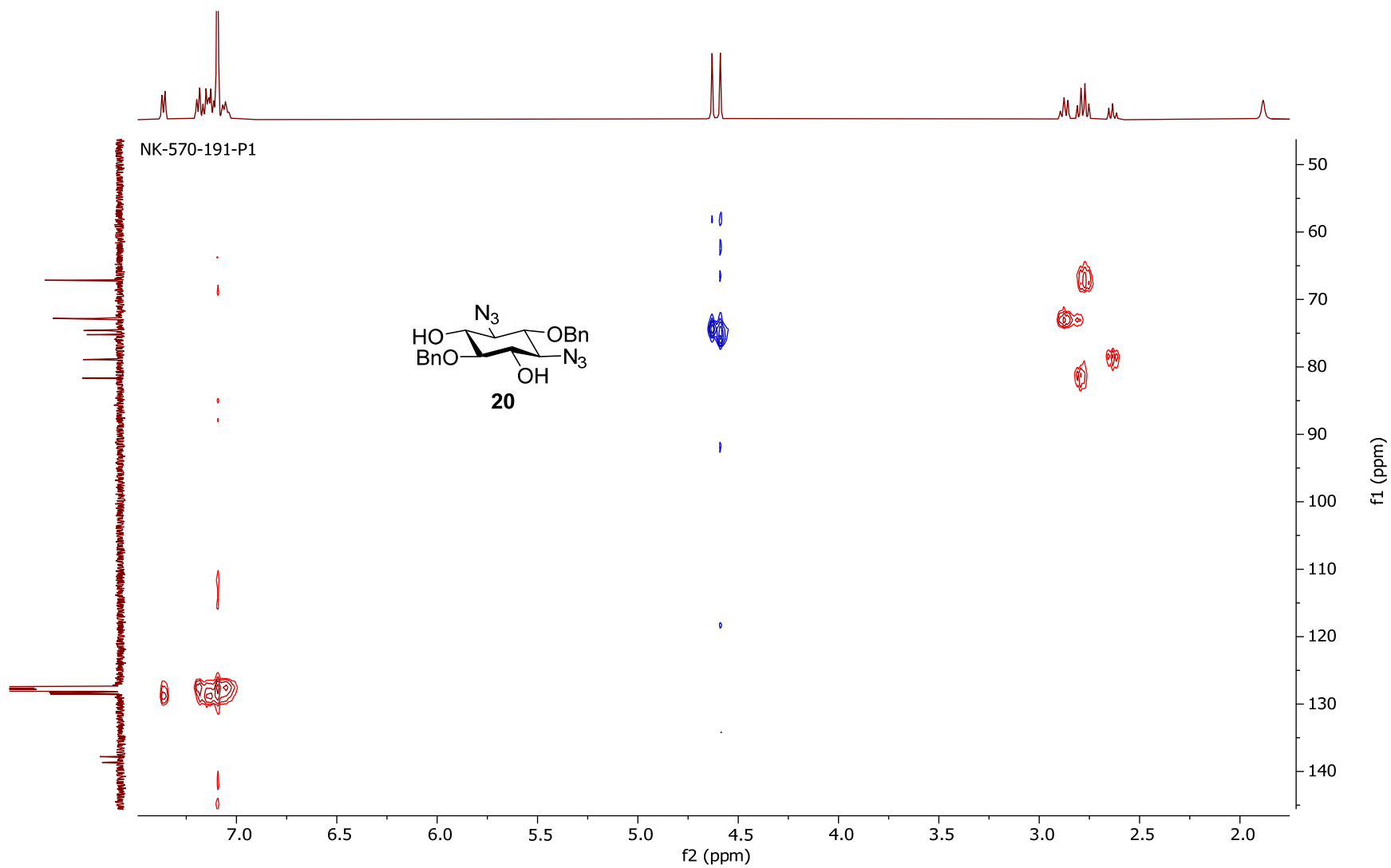
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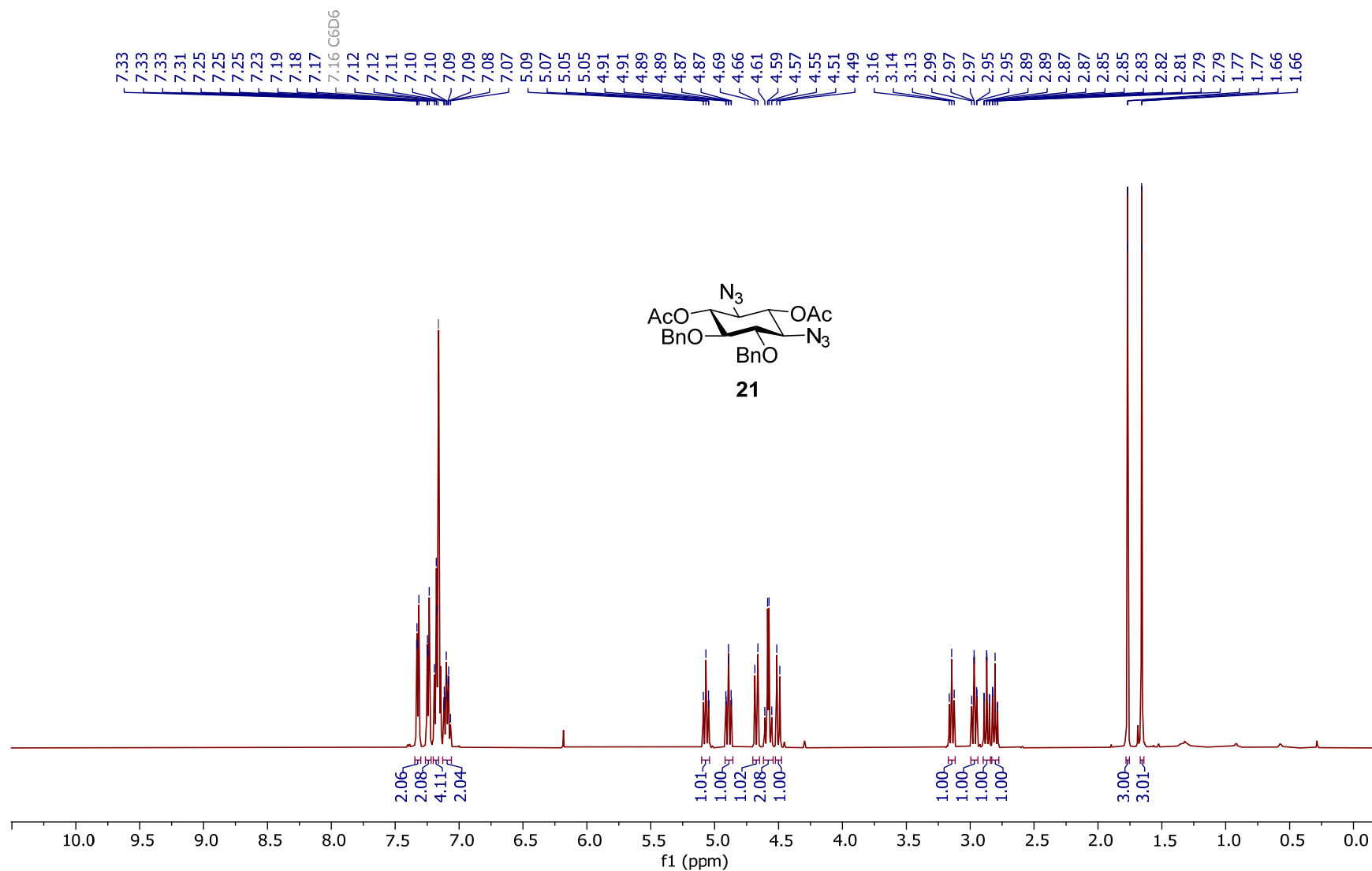
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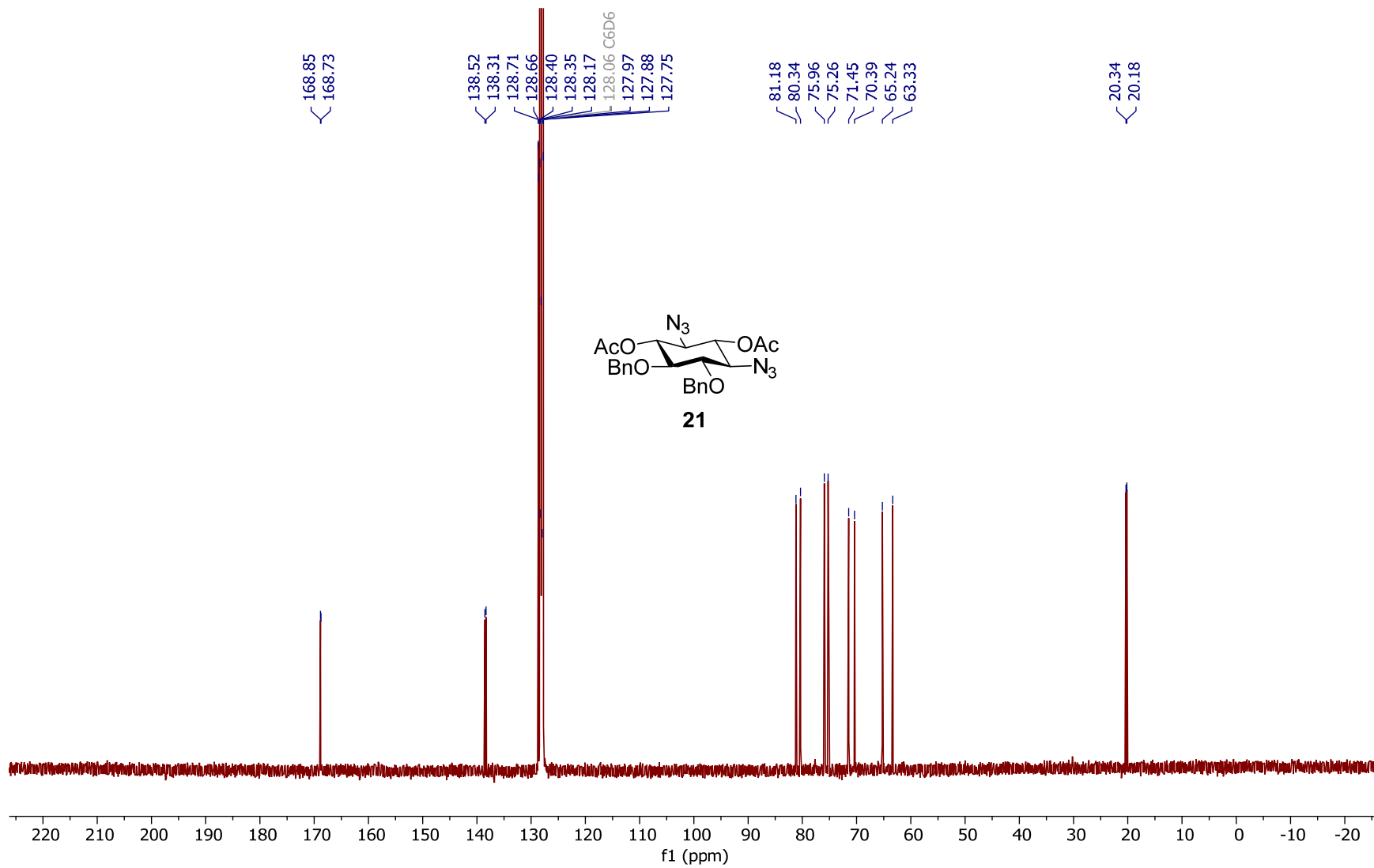
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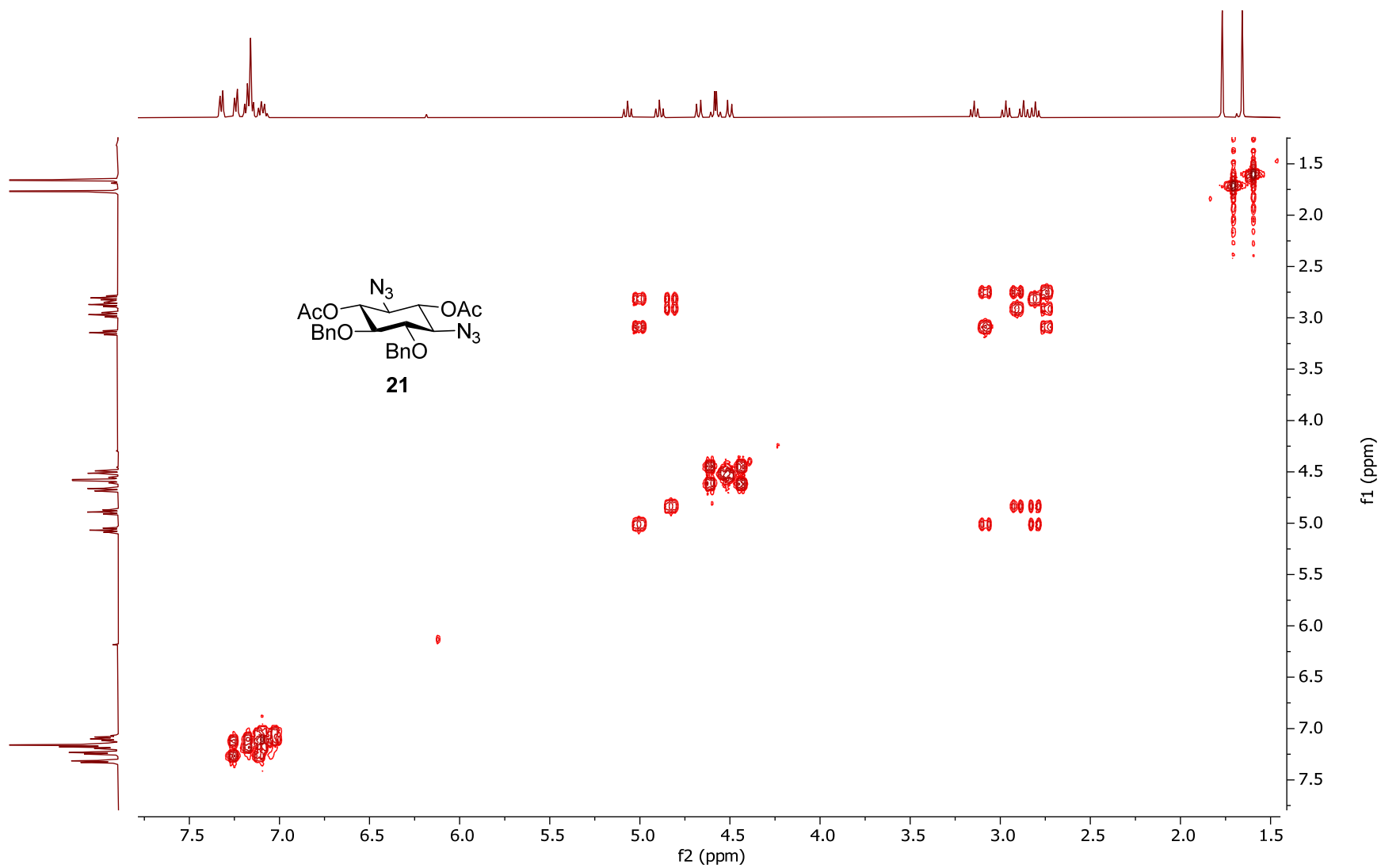
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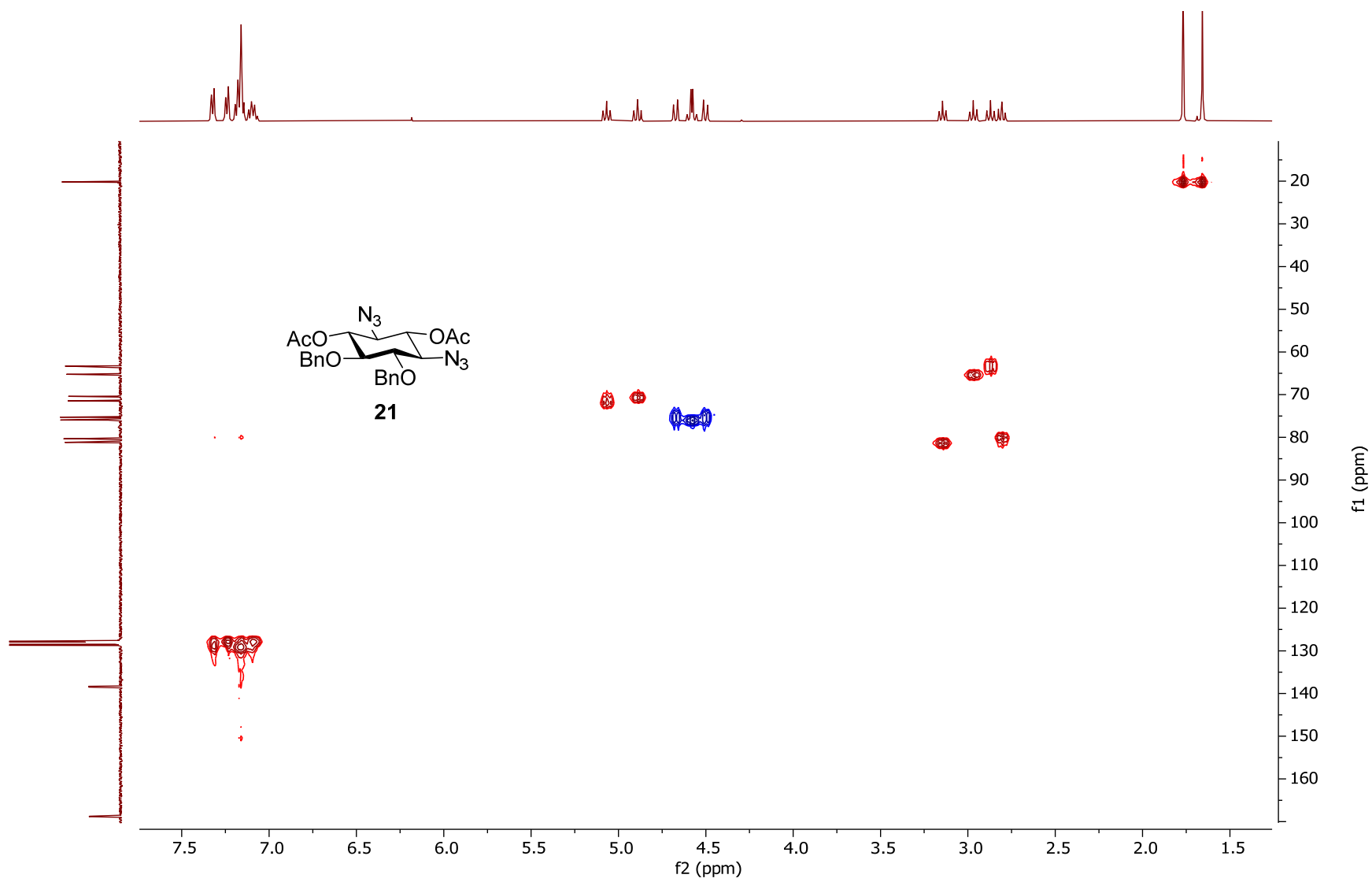
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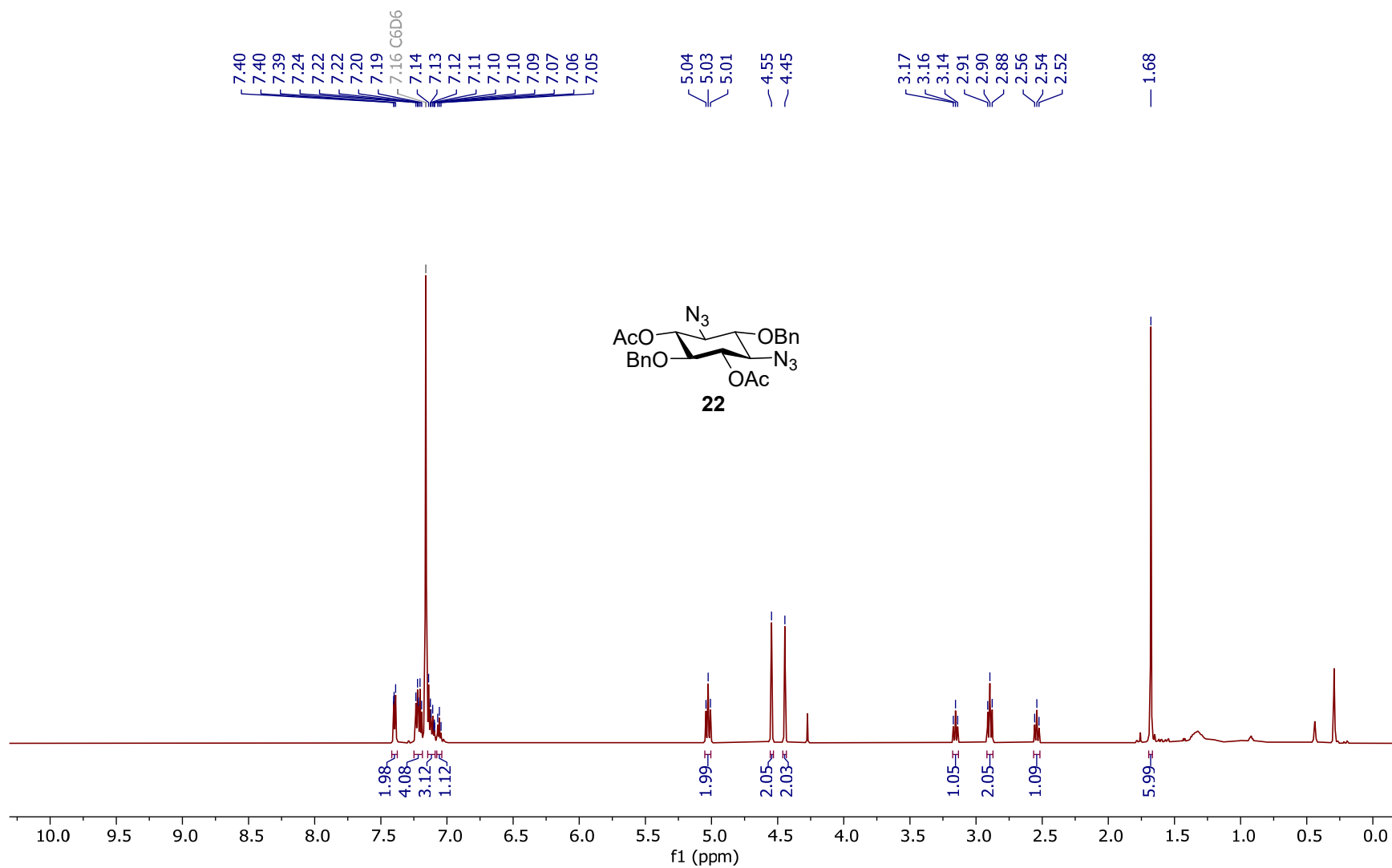
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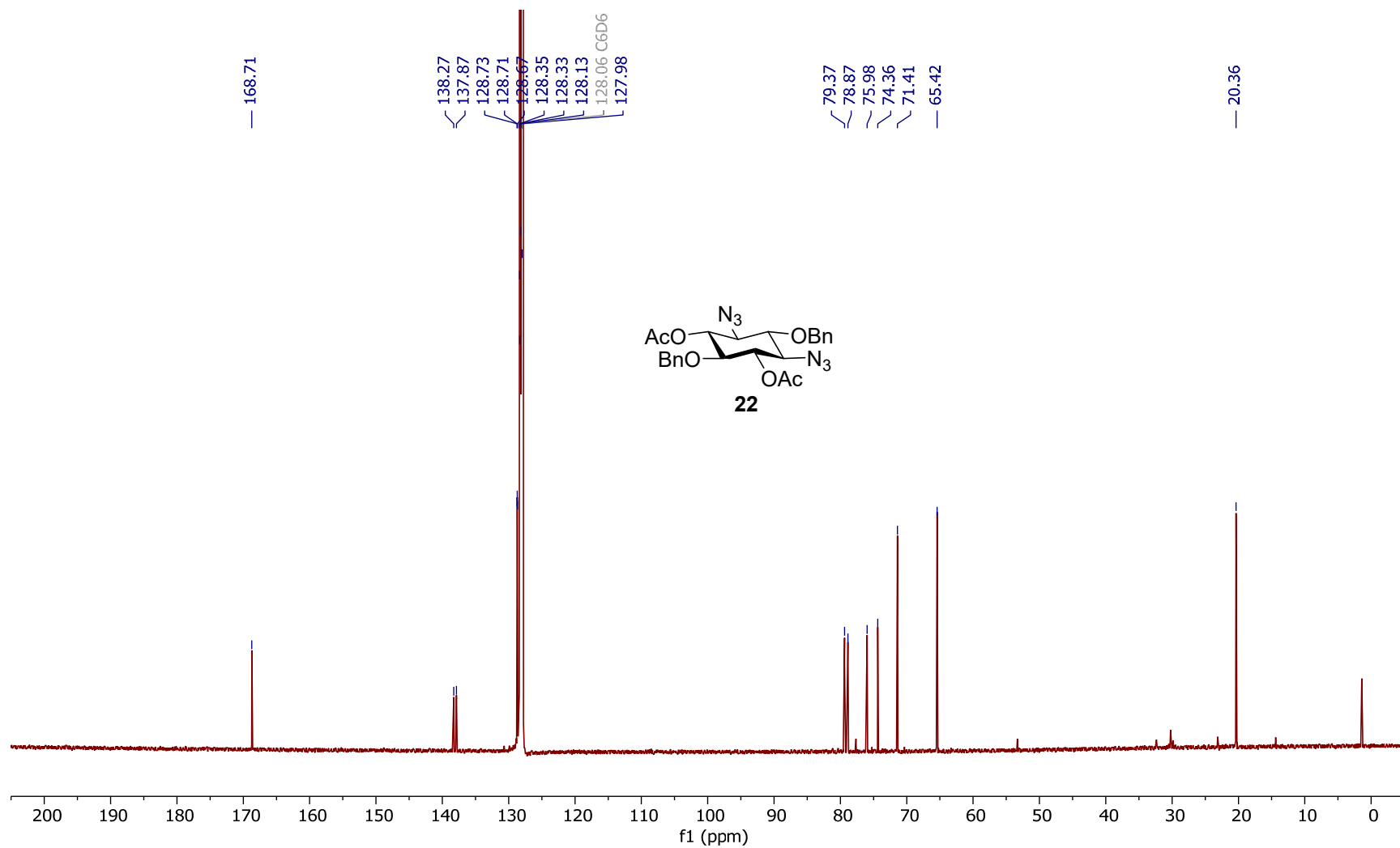
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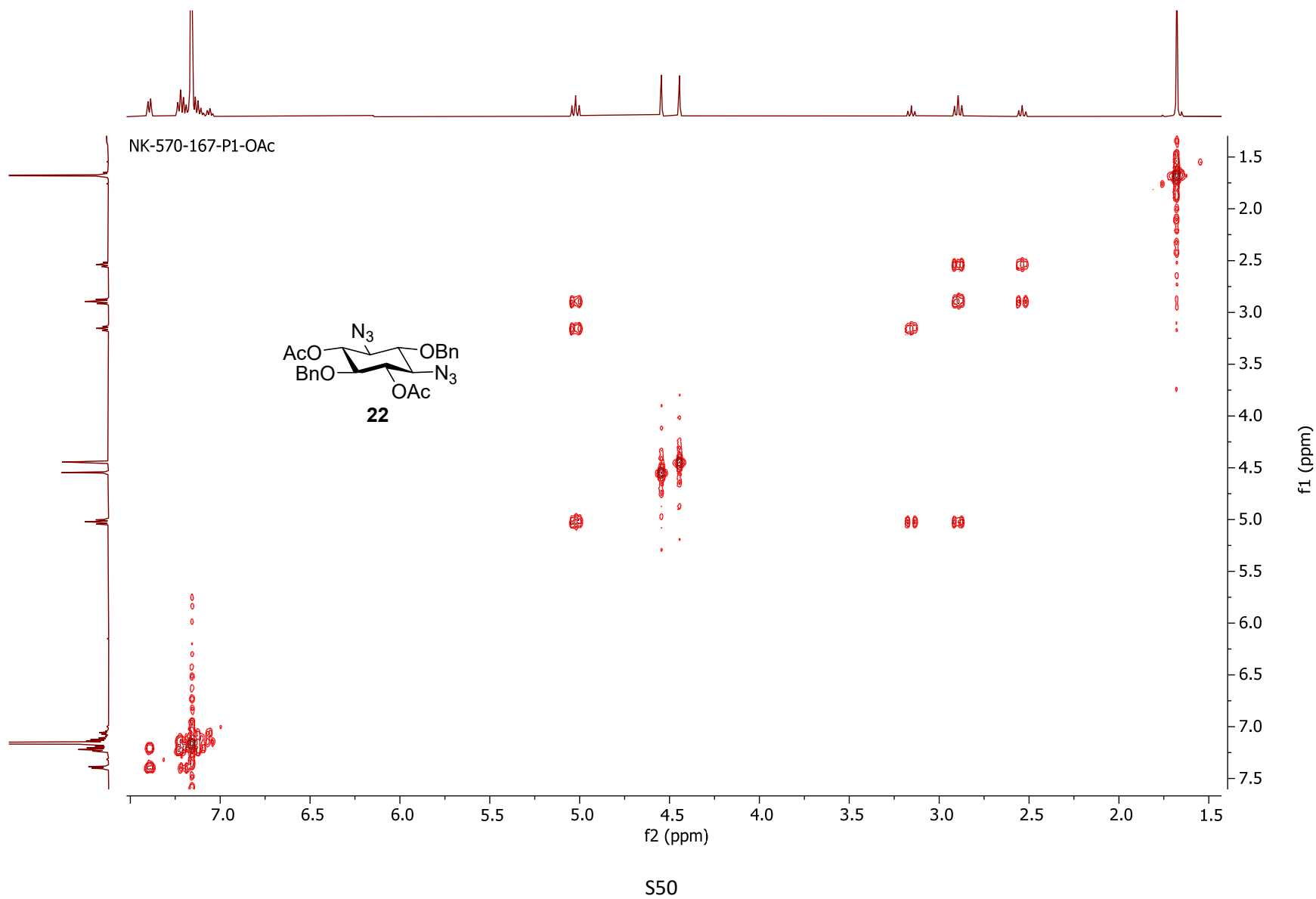
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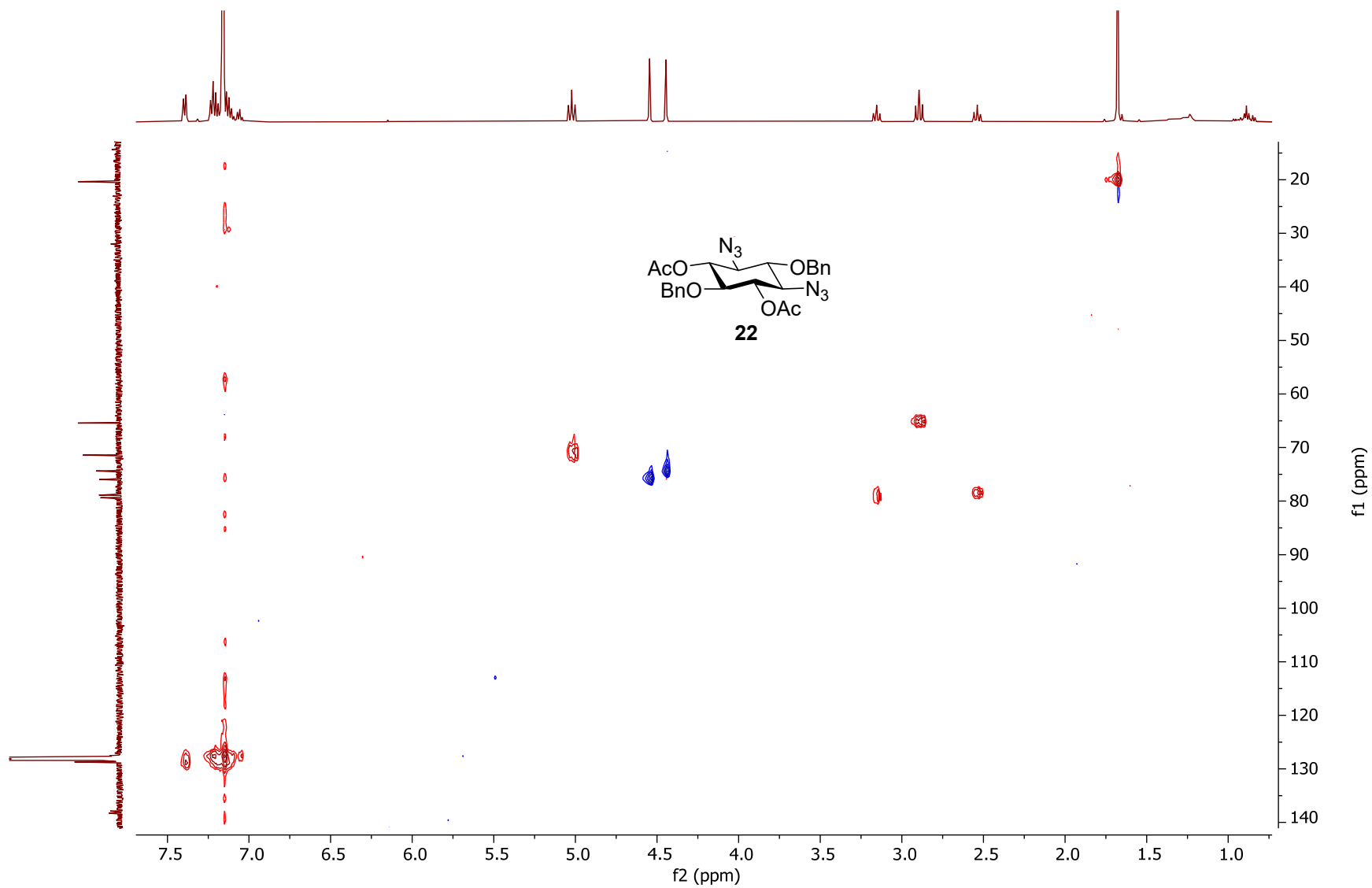
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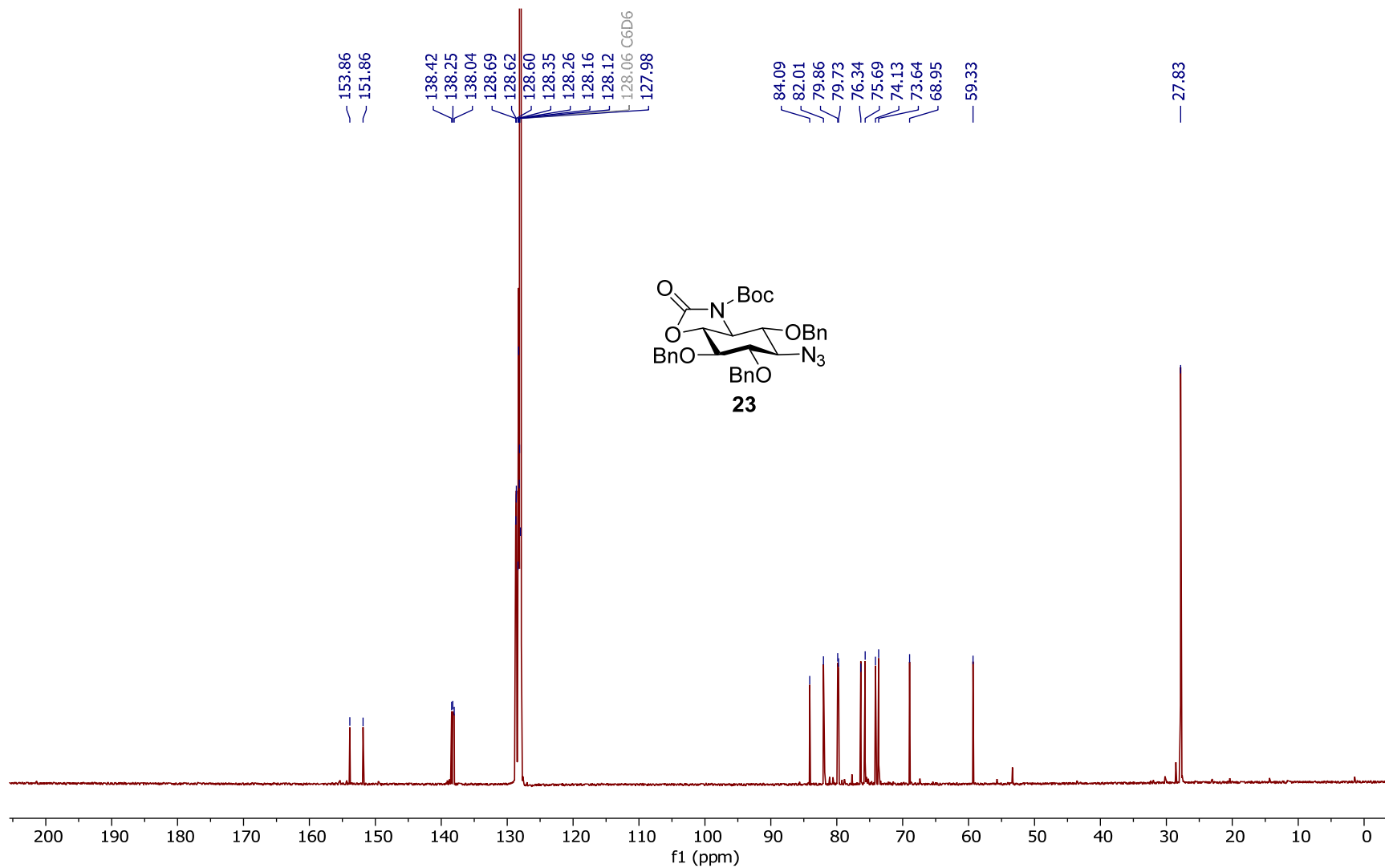
^1H - ^1H COSY NMR Spectra (126 MHz, Benzene- d_6) of 4,6-Di-O-acetyl-1,3-di(deamino)-1,3-diazido-2,5-di-O-benzylstreptamine (**22**)



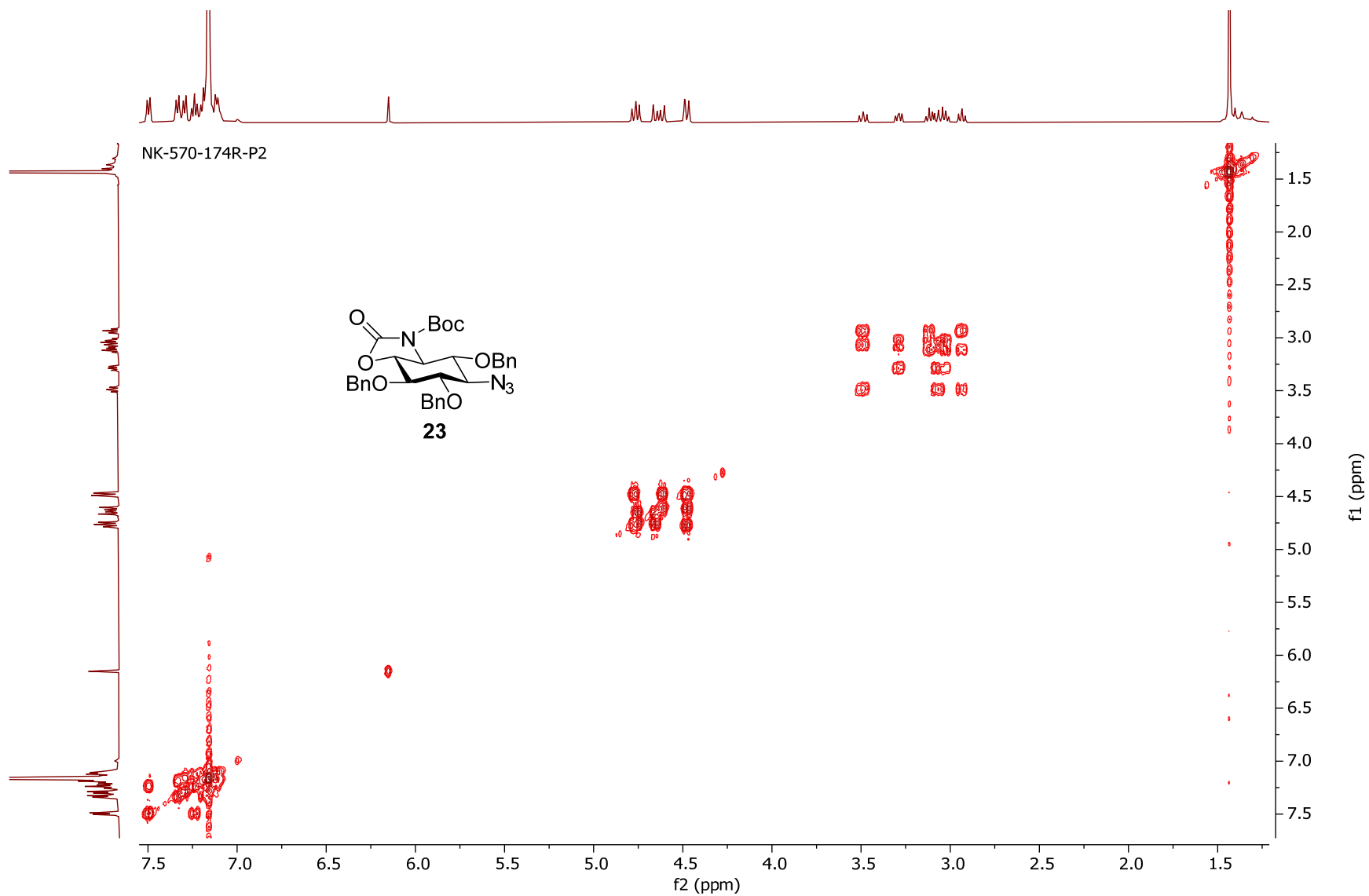
HSQC NMR Spectra (500 MHz, Benzene- d_6) of 4,6-Di-O-acetyl-1,3-di(deamino)-1,3-diazido-2,5-di-O-benzylstreptamine (**22**)



$^{13}\text{C}\{^1\text{H}\}$ NMR Spectra (126 MHz, Benzene- d_6) of 1,3-Di(deamino)-1-azido-3-*N*-tert-butylcarboxy-2,5,6-tri-*O*-benzyl-3,4-oxazolidino-streptamine (**23**)



¹H-¹H COSY NMR Spectra (500 MHz, Benzene-d₆) of 1,3-Di(deamino)-1-azido-3-*N*-tert-butylcarboxy-2,5,6-tri-*O*-benzyl-3,4-oxazolidino-streptamine (**23**)



HSQC NMR Spectra (500 MHz, Benzene- d_6) of 1,3-Di(deamino)-1-azido-3-*N*-tert-butylcarboxy-2,5,6-tri-*O*-benzyl-3,4-oxazolidino-streptamine (**23**)

