

*Electronic Supplementary Information – Part 2:***Amino Acid-Derived Hydroxamic Acids as Ligands in Vanadium Catalyzed Epoxidation. Accelerating Effect of Sulfonamide Group**

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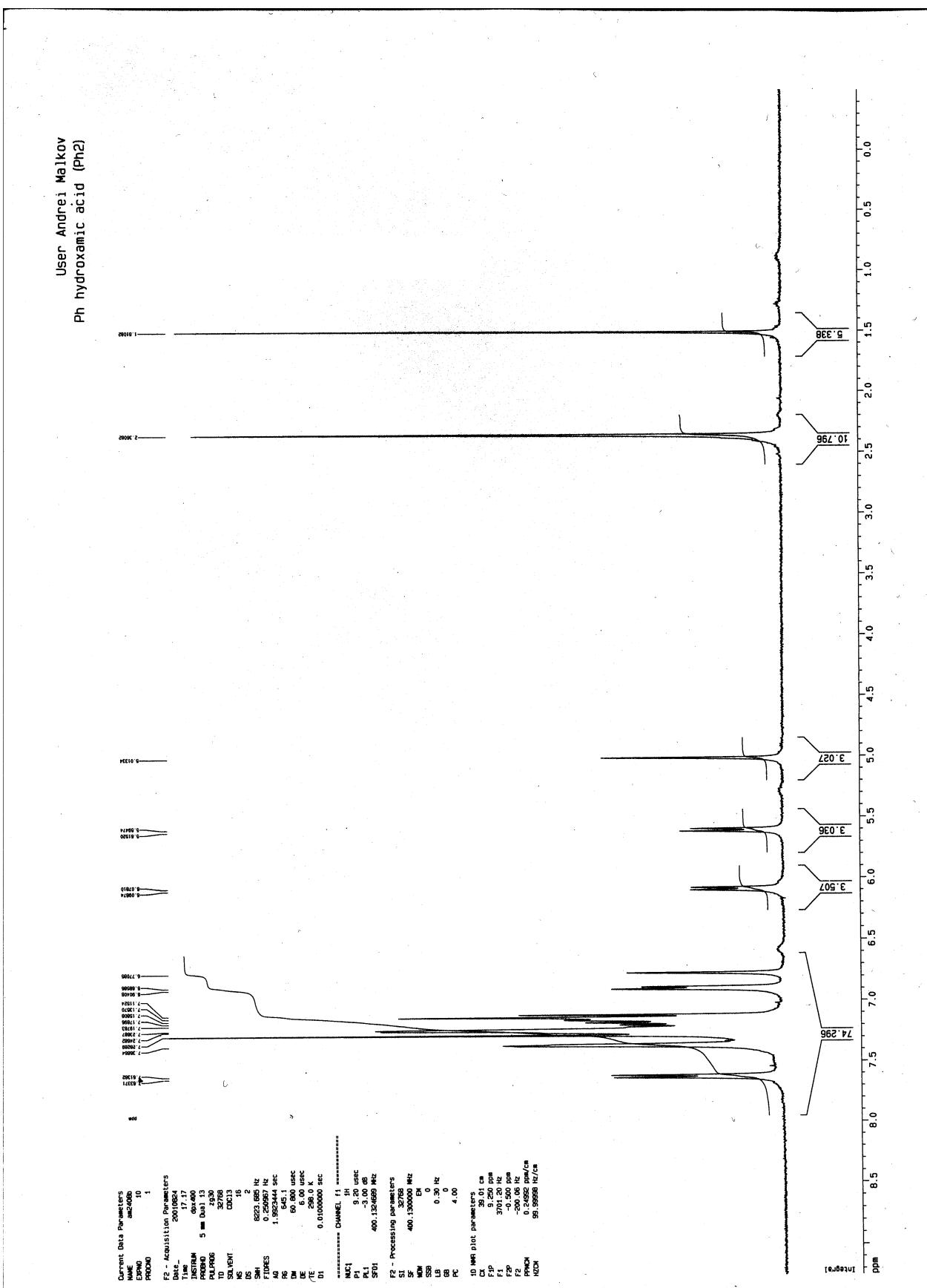
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amalkov@chem.gla.ac.uk*

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<sup>1</sup> H and <sup>13</sup> C NMR spectra of key compounds	S(2)2 – S(2)31
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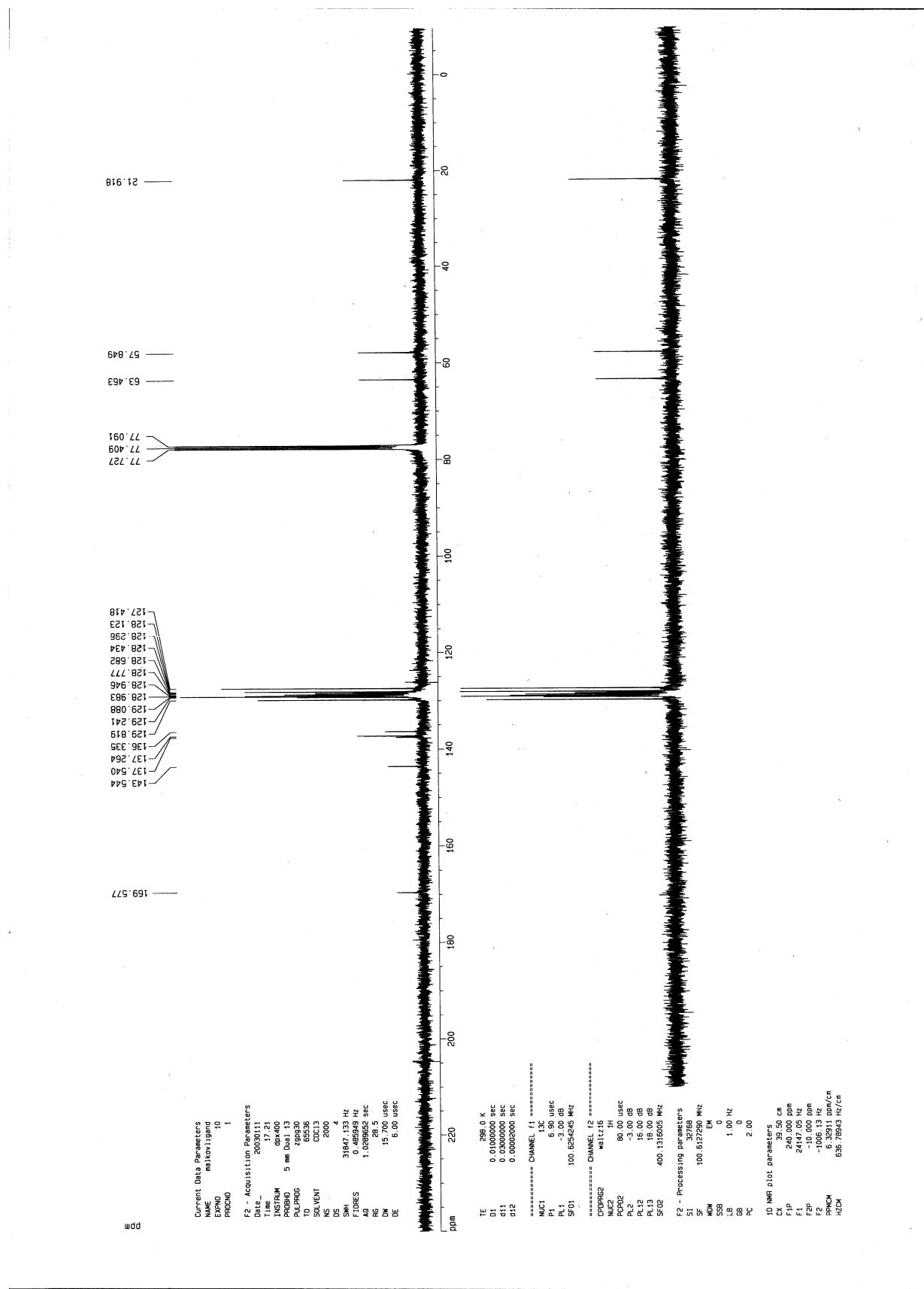
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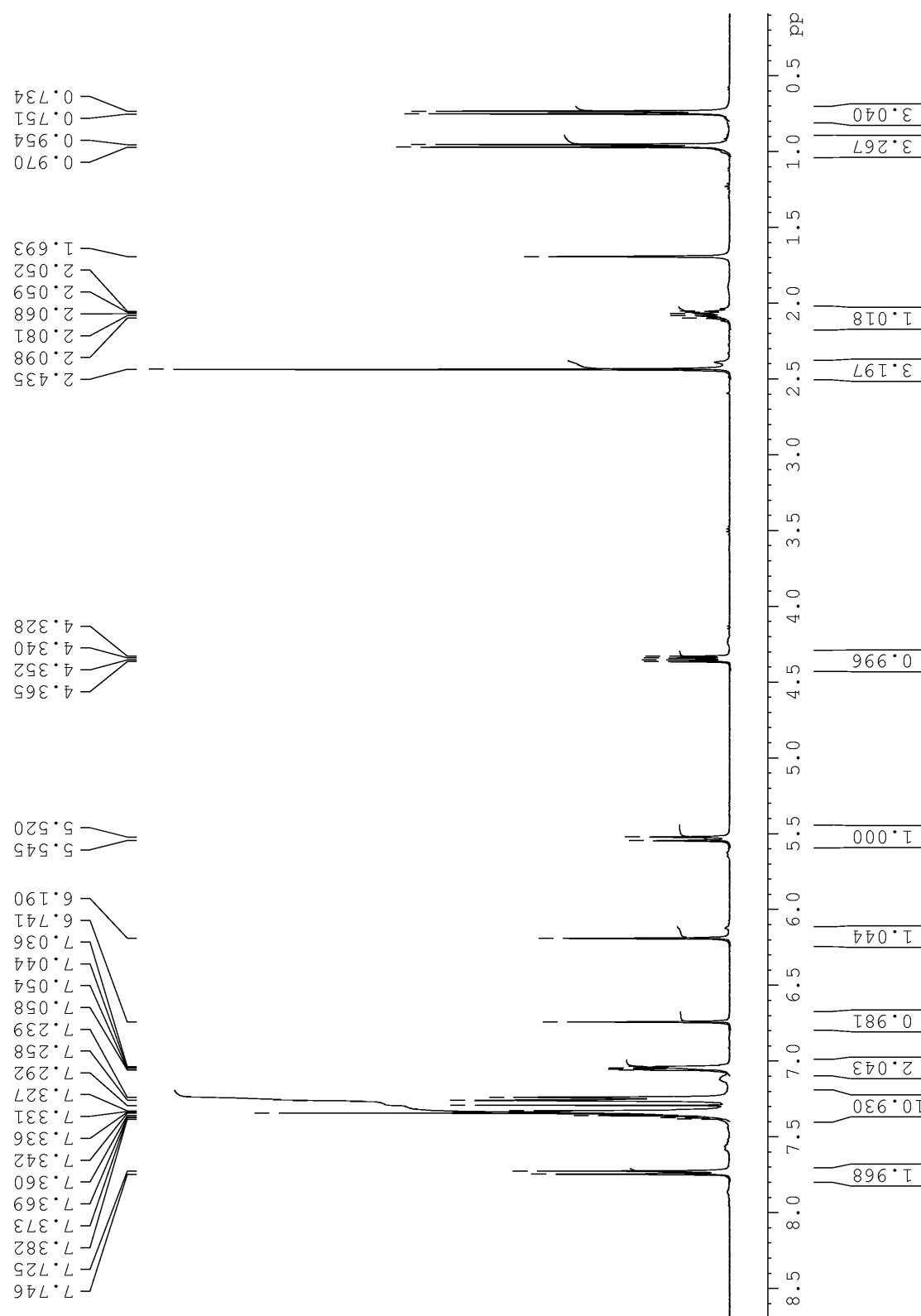
Ligand **7a**,  $^1\text{H}$  NMR

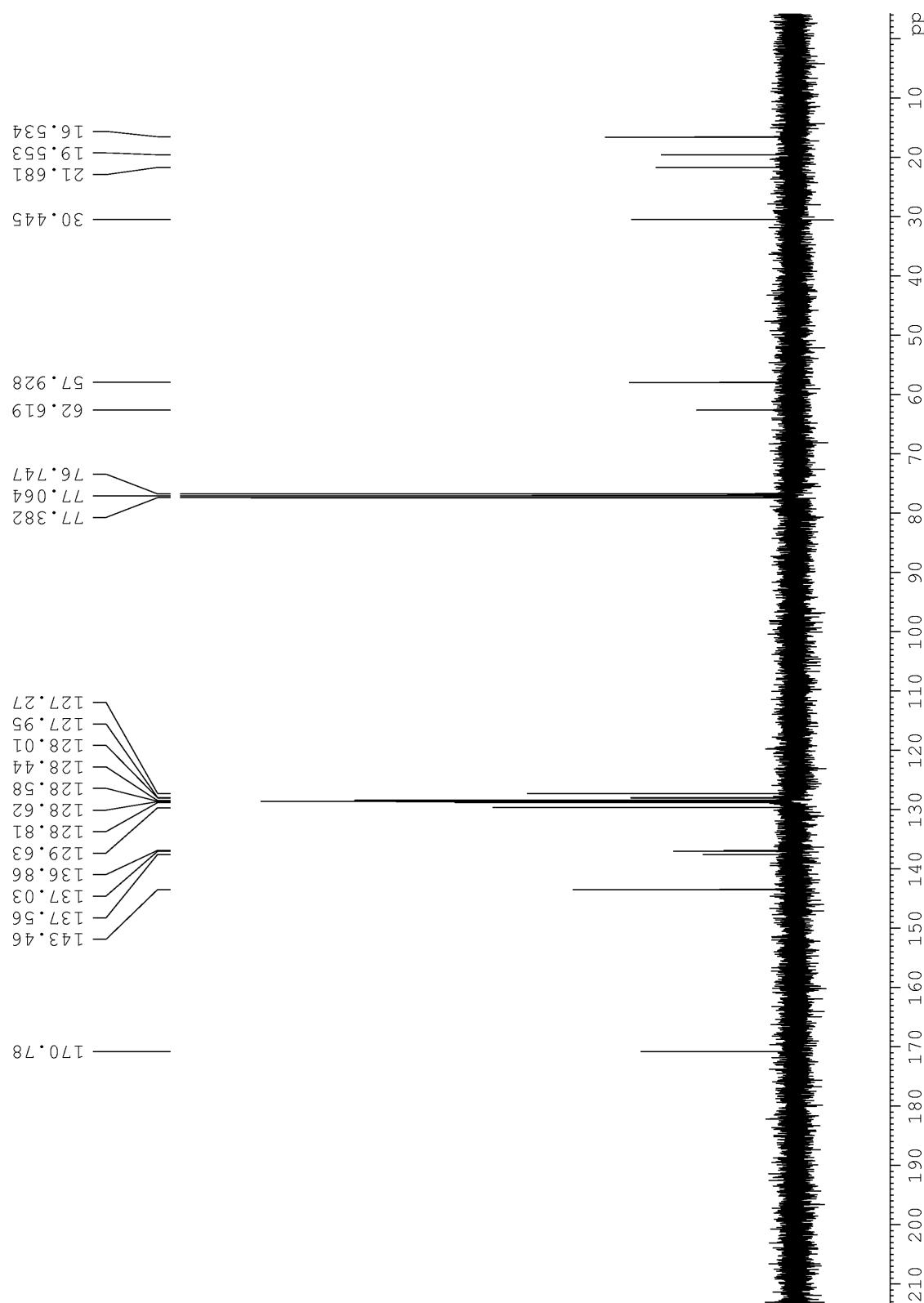


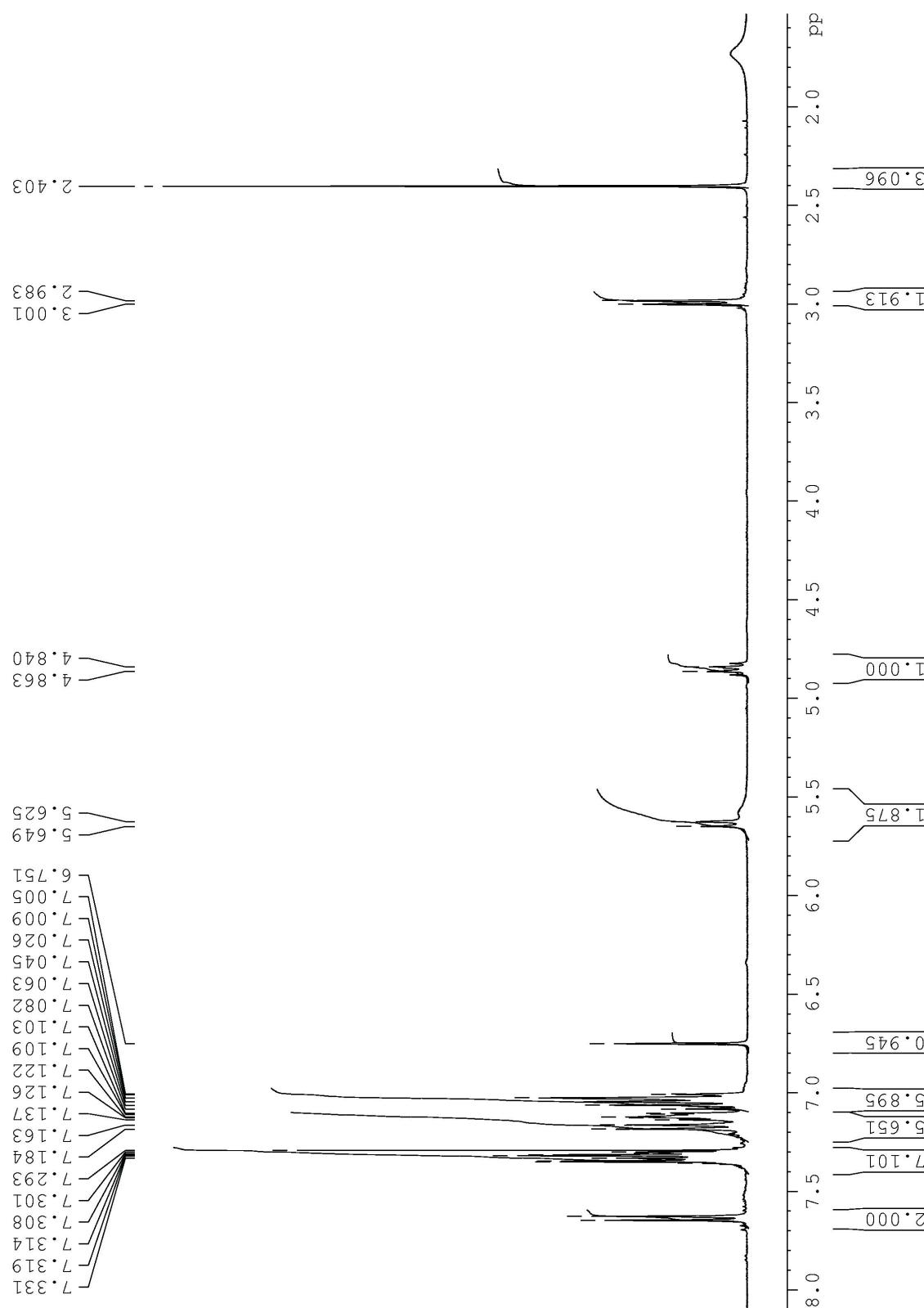
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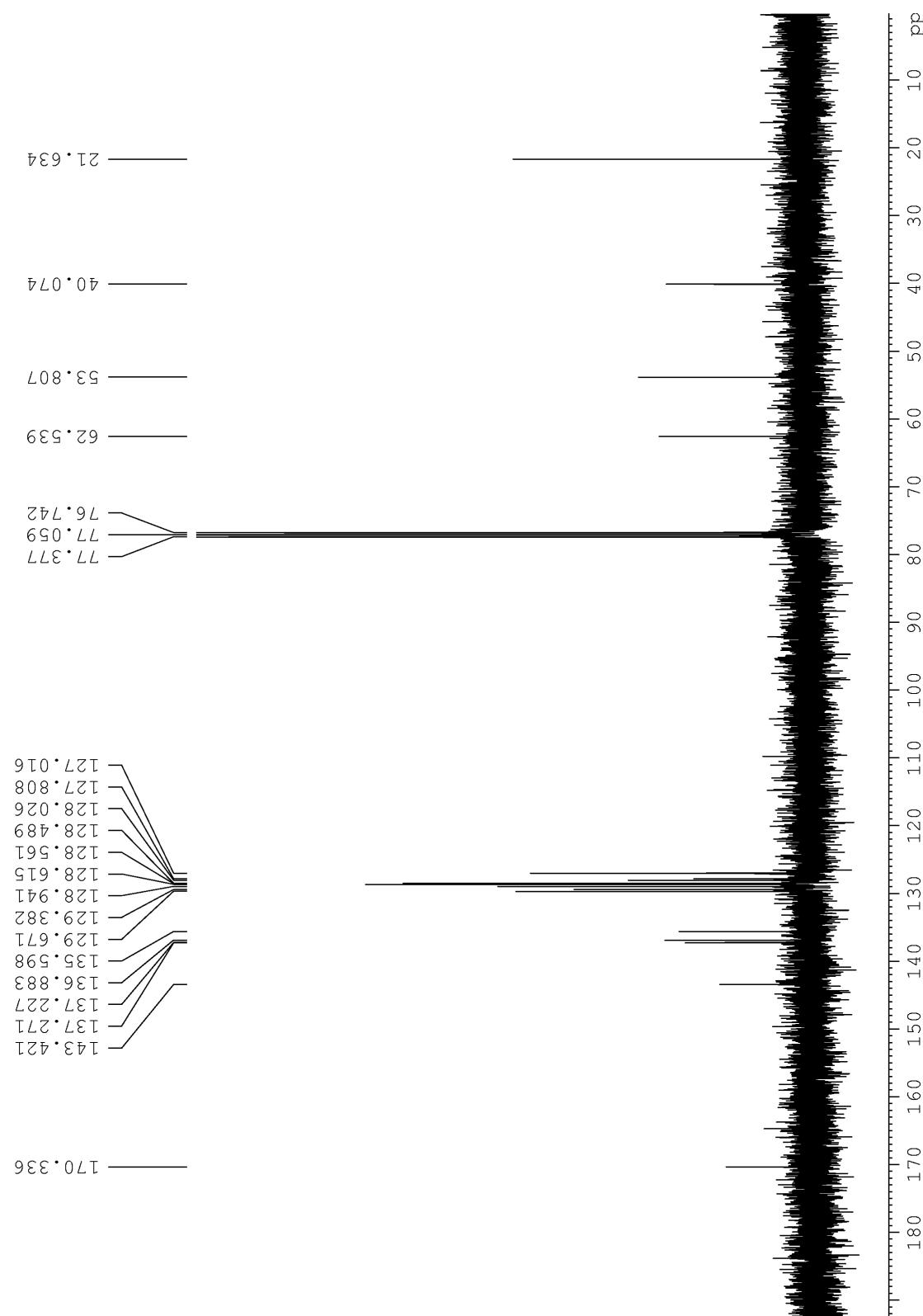
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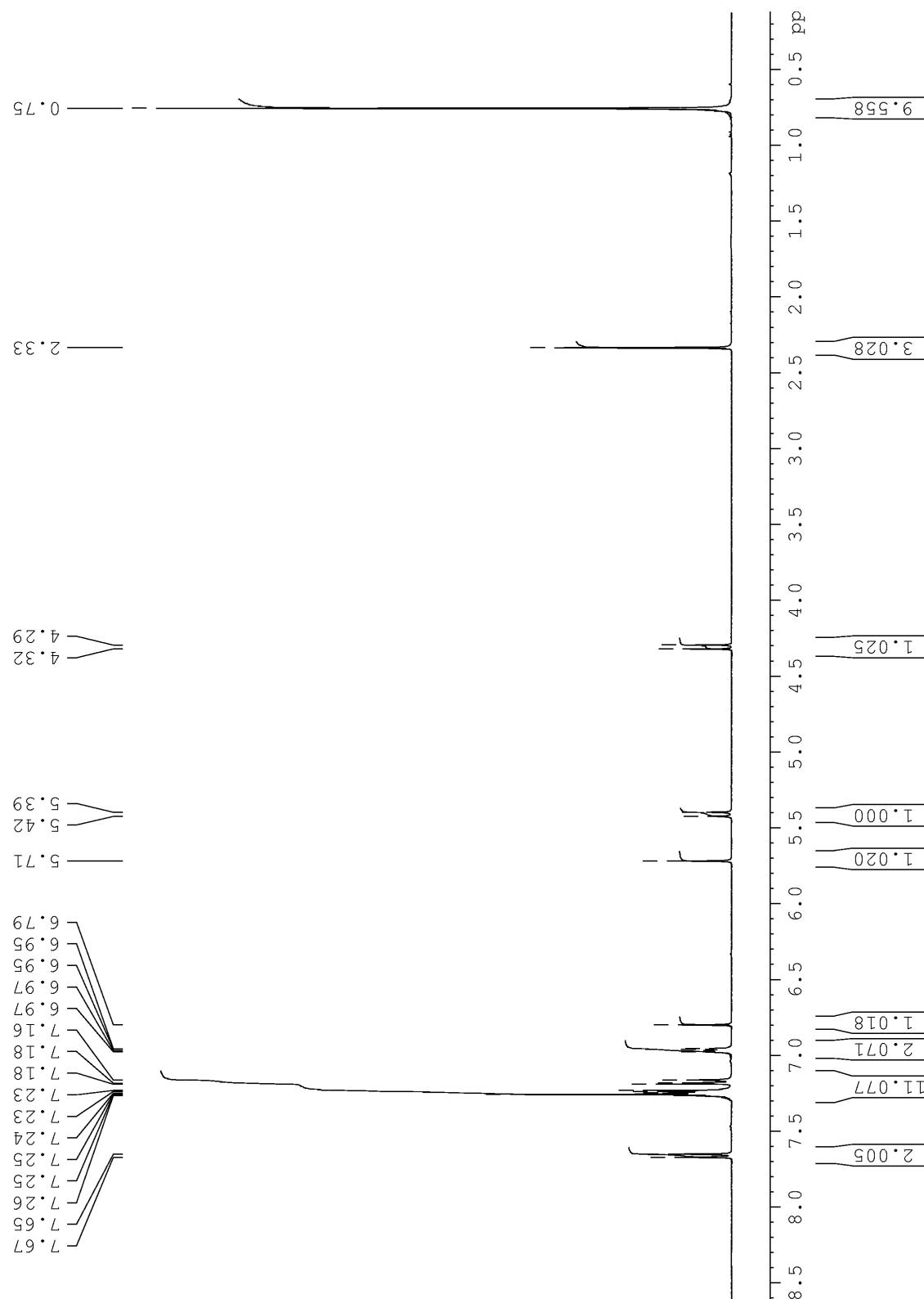


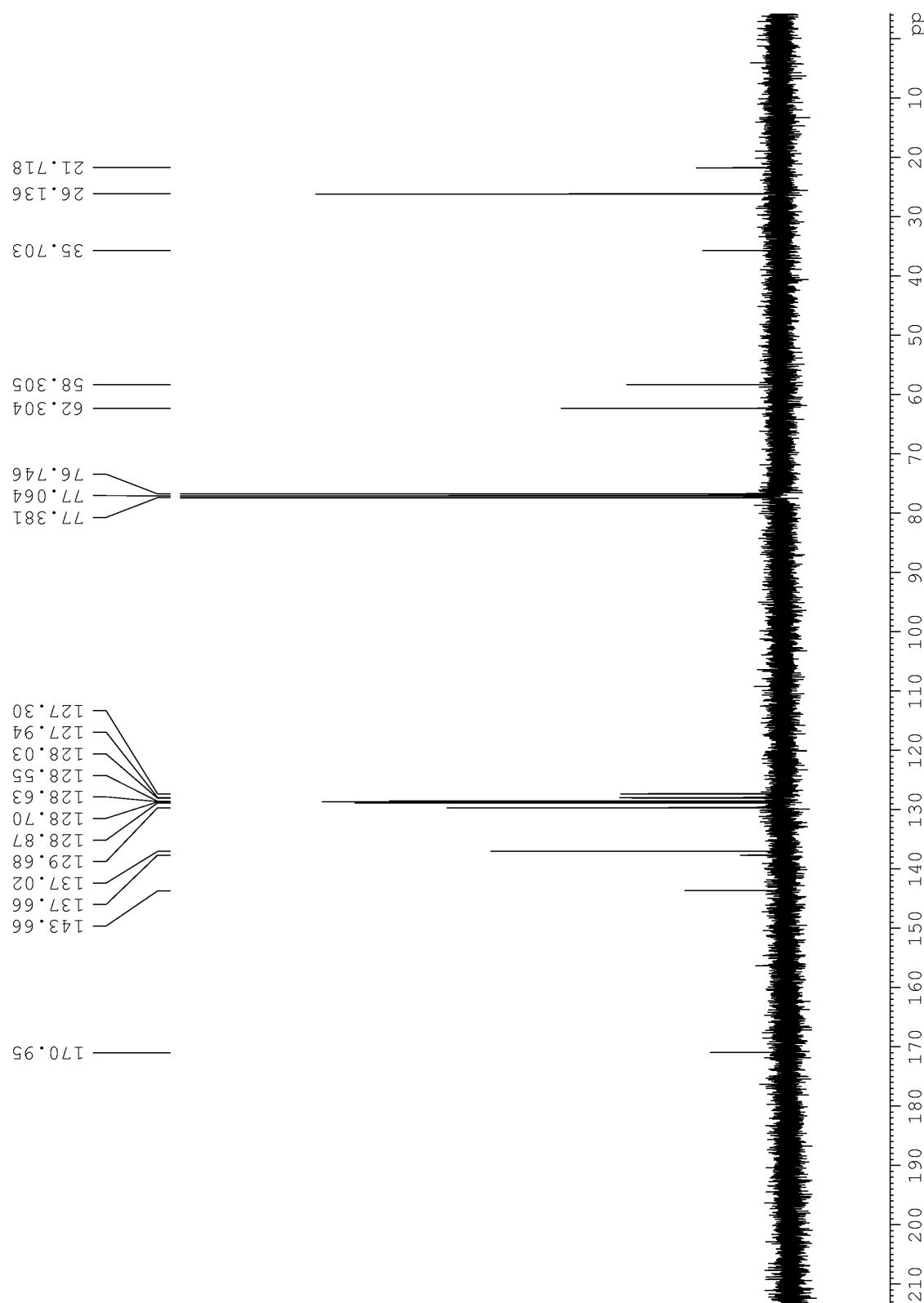
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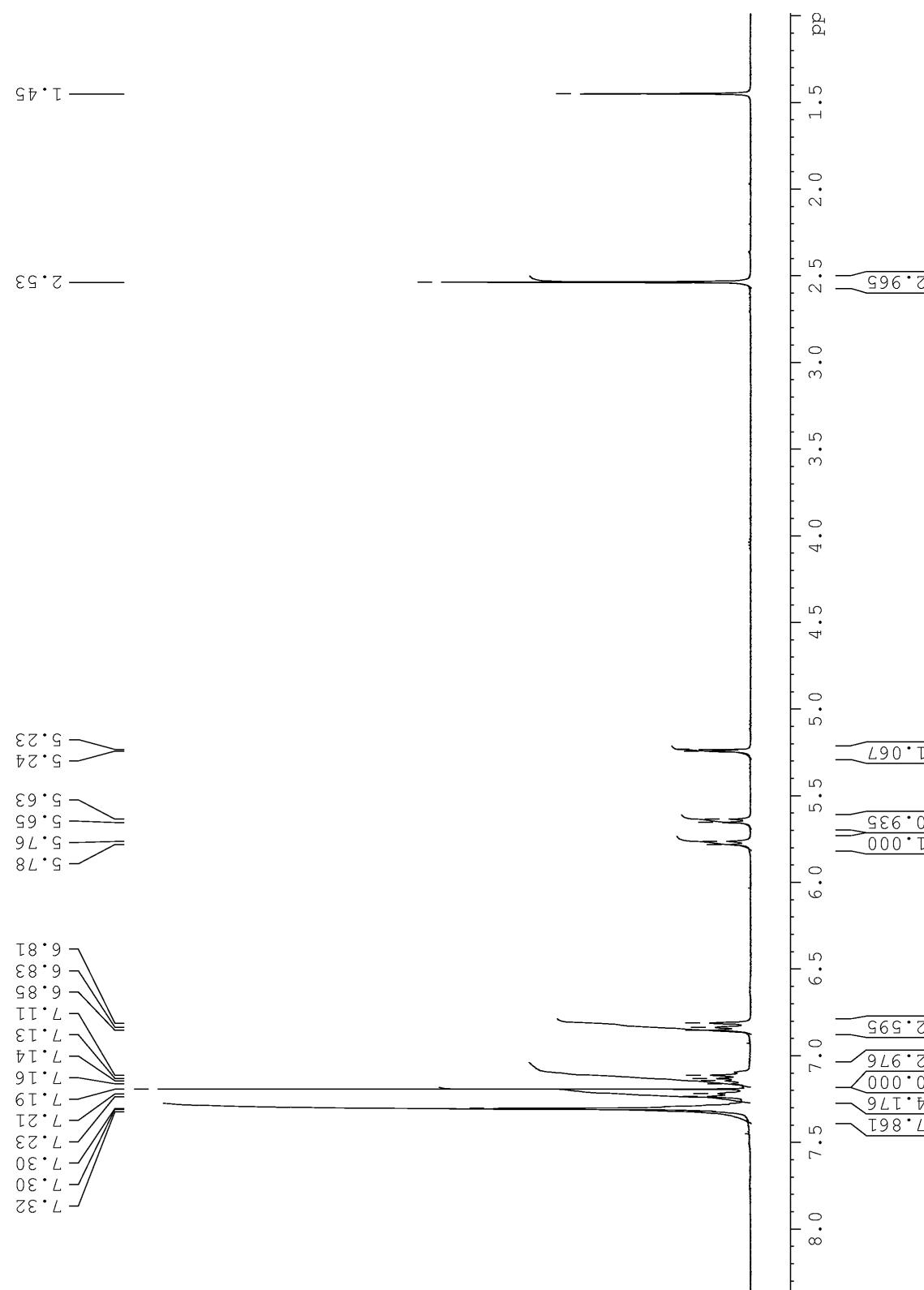
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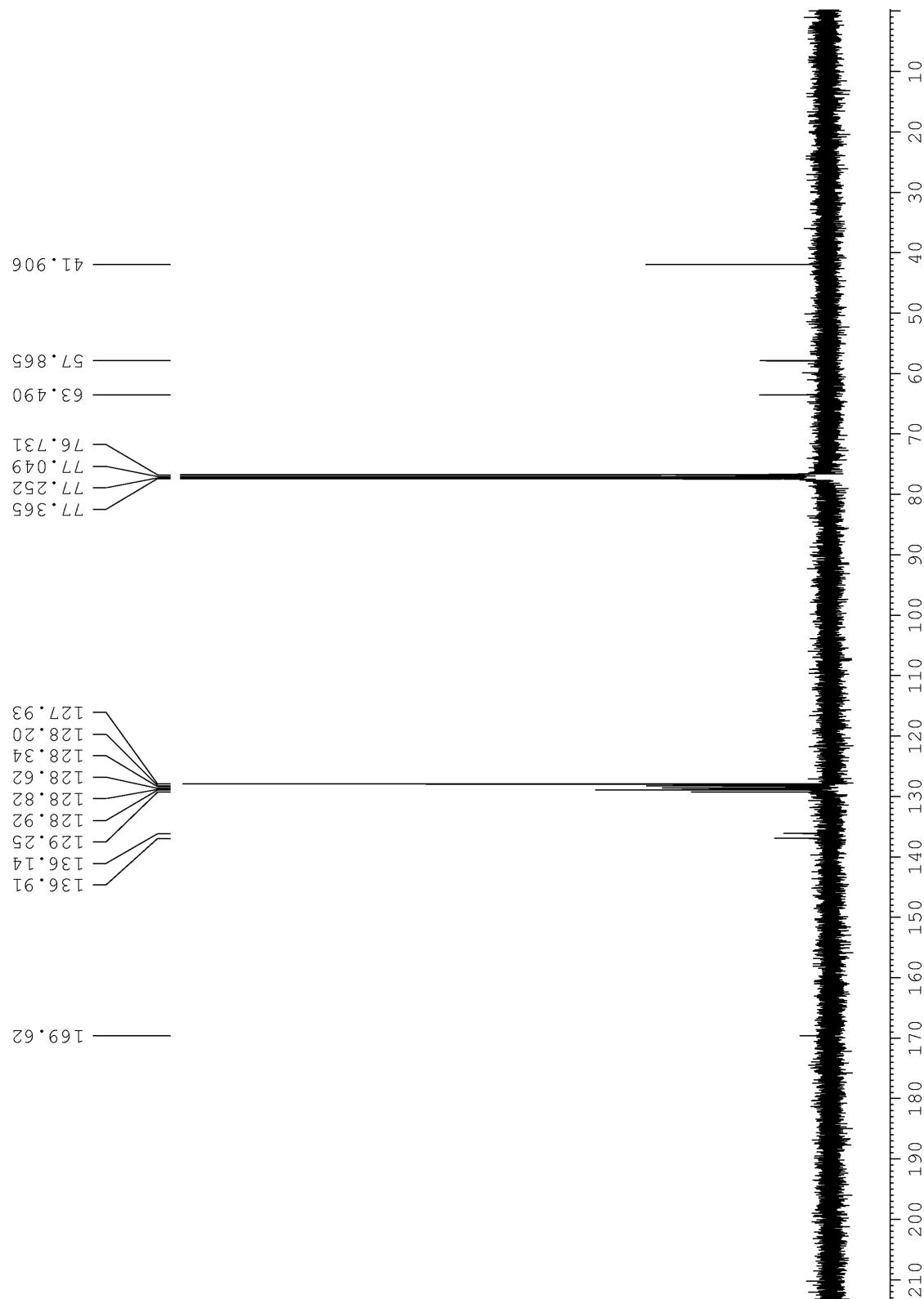
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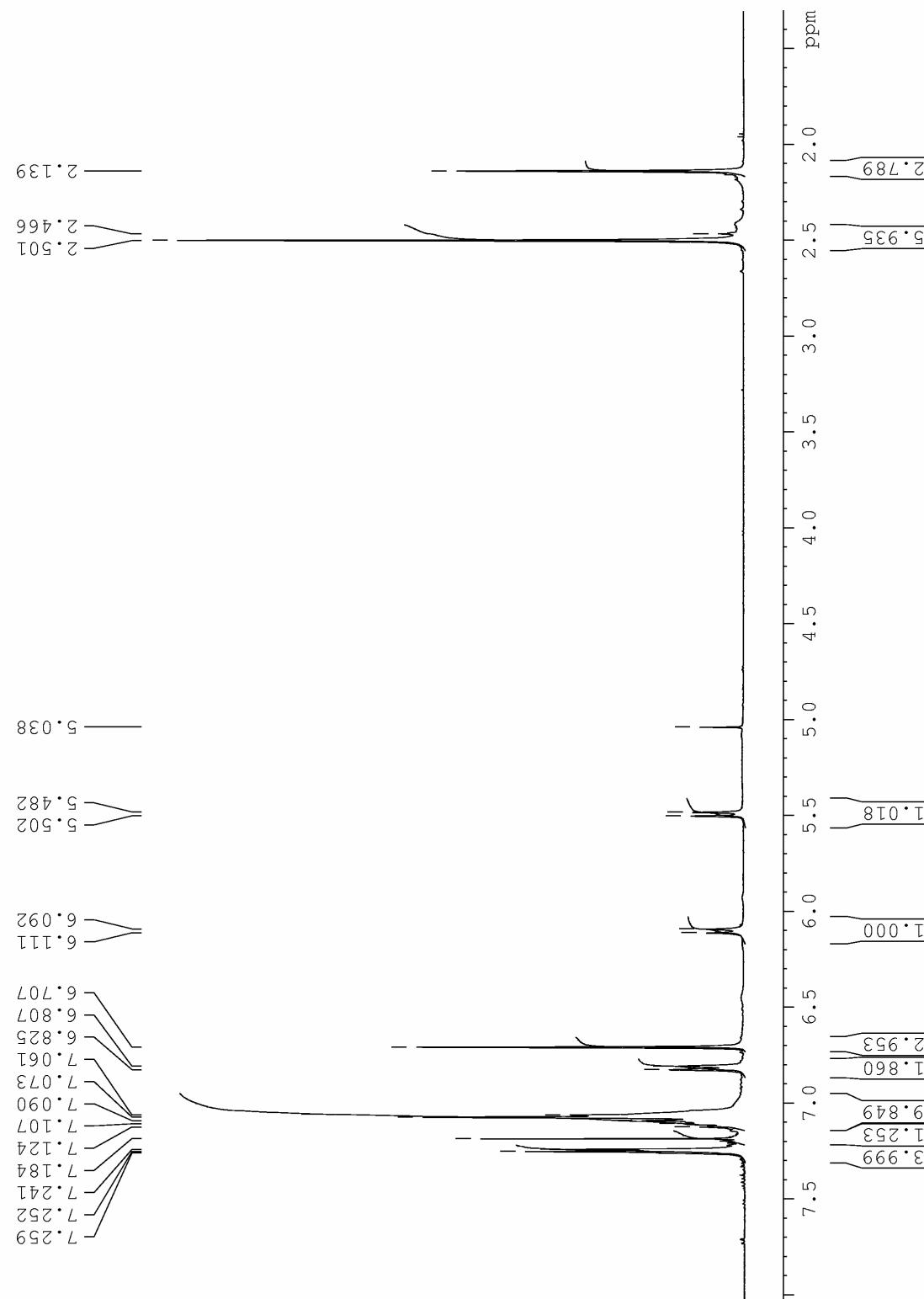
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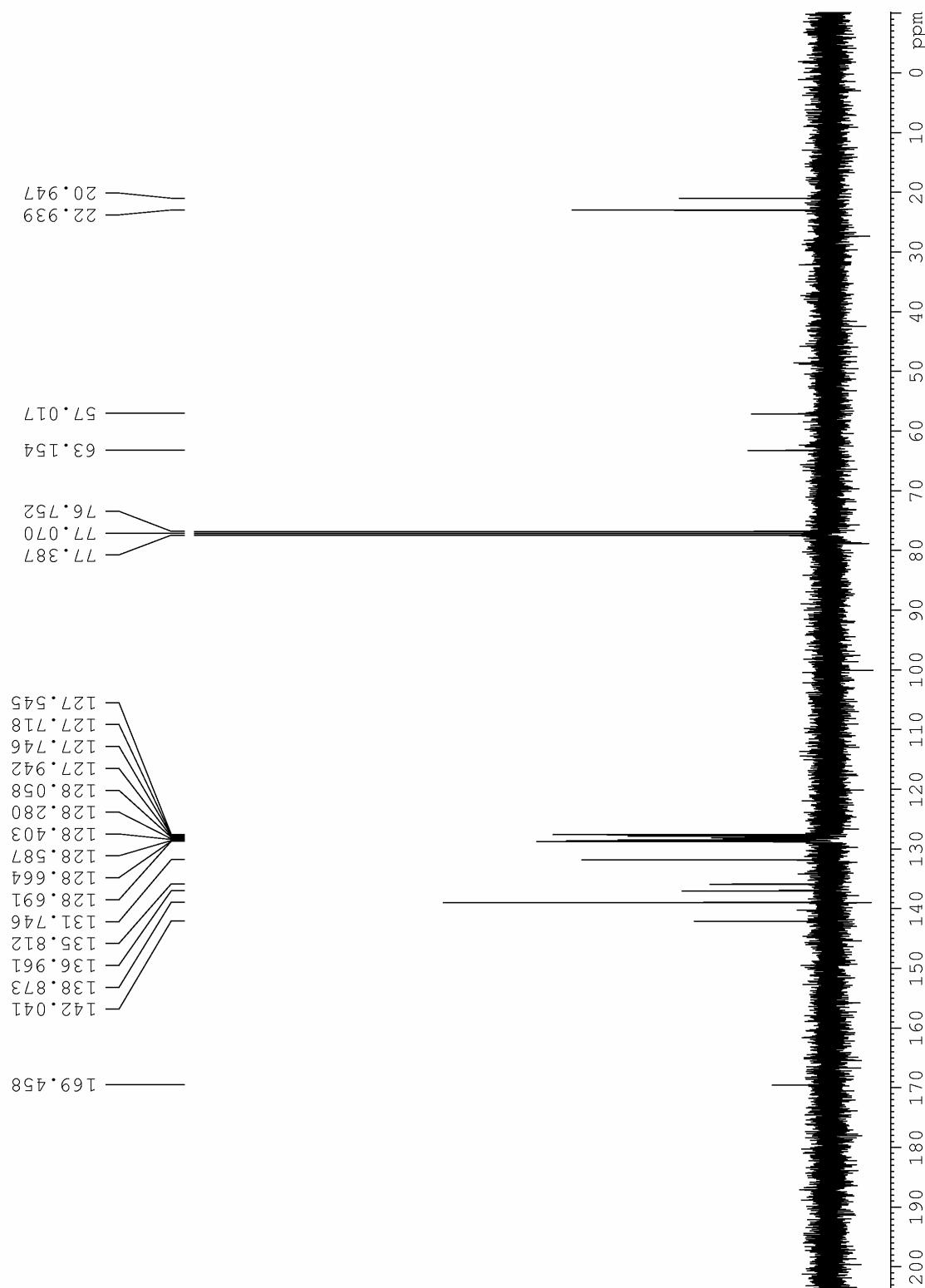
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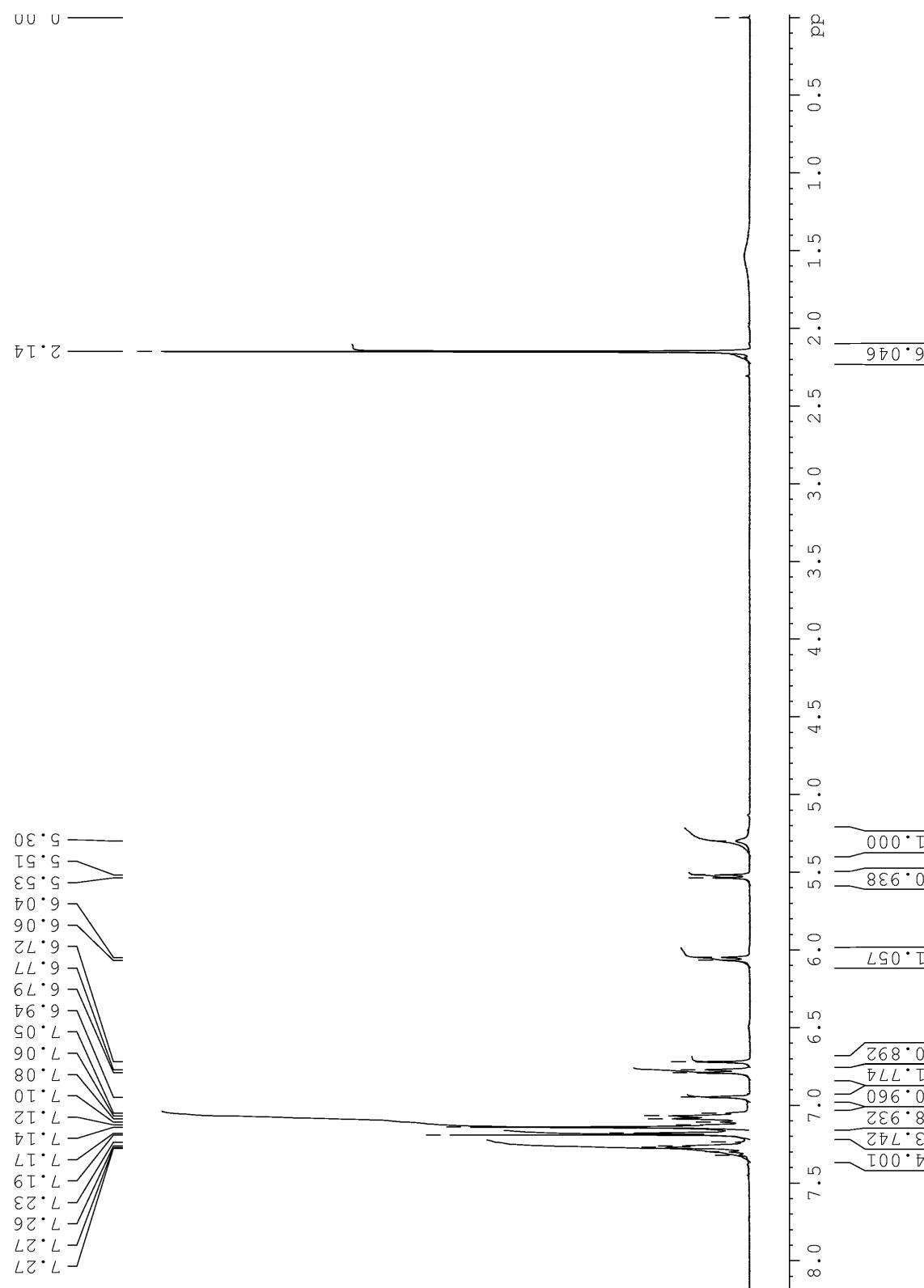
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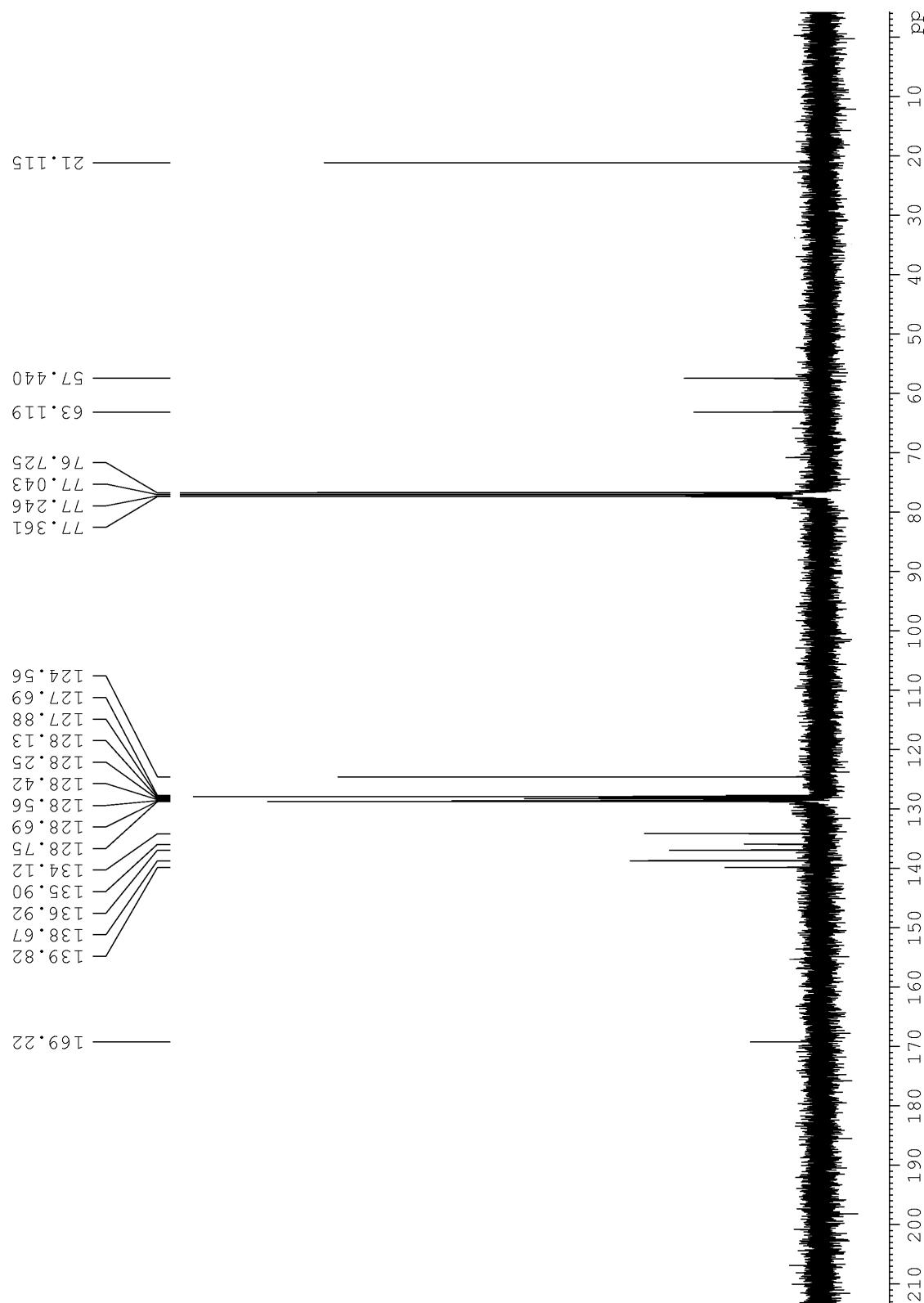
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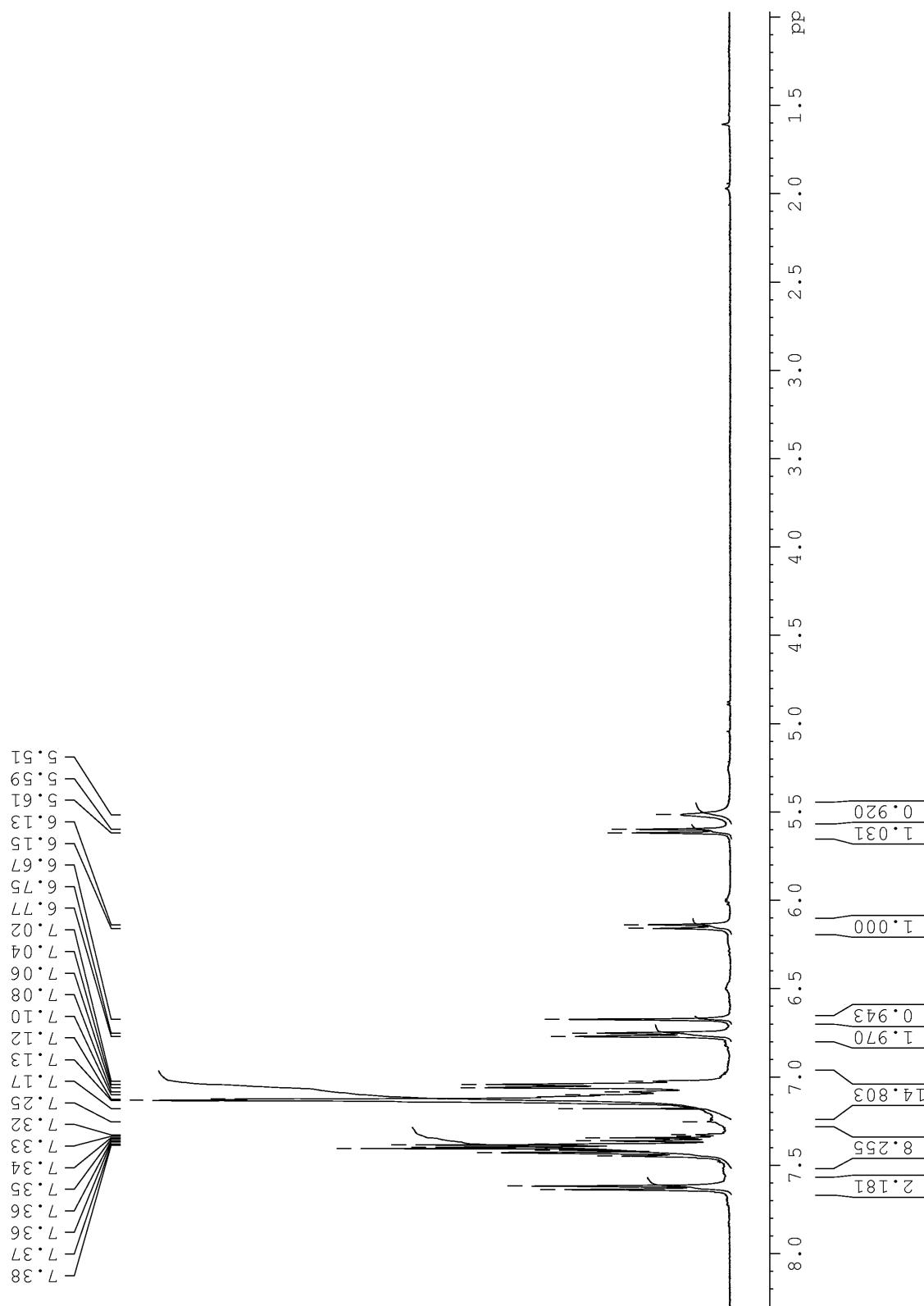
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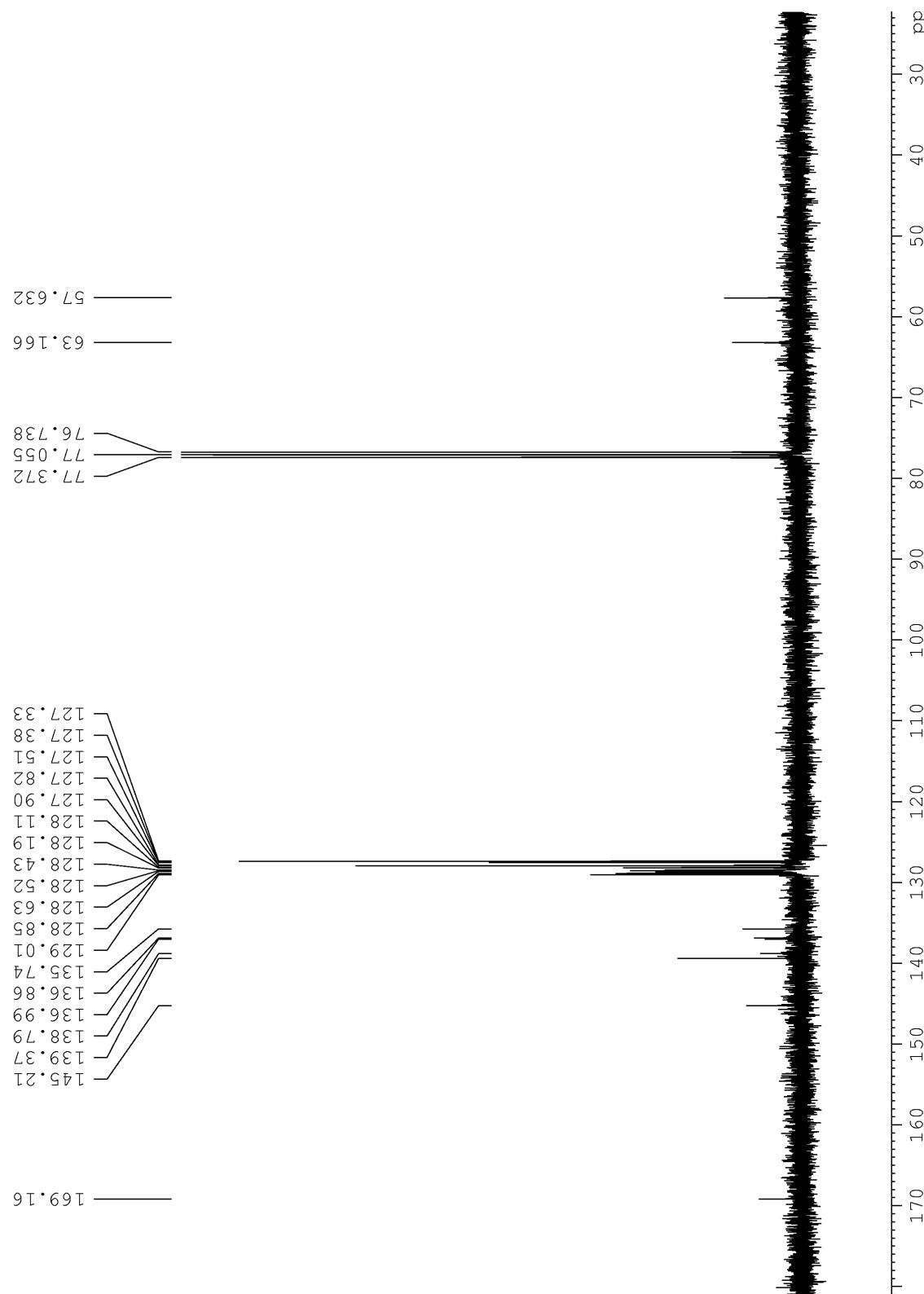
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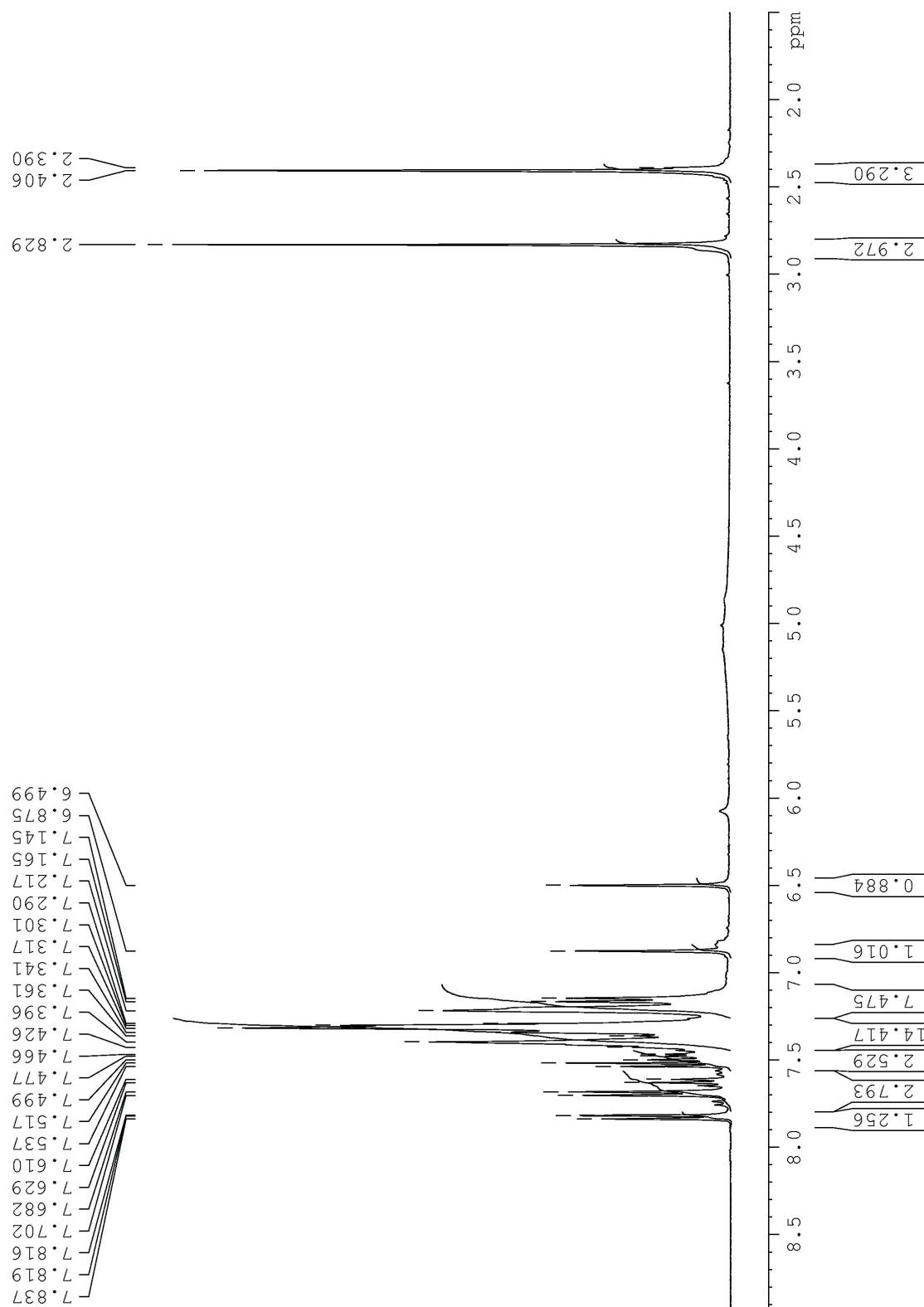
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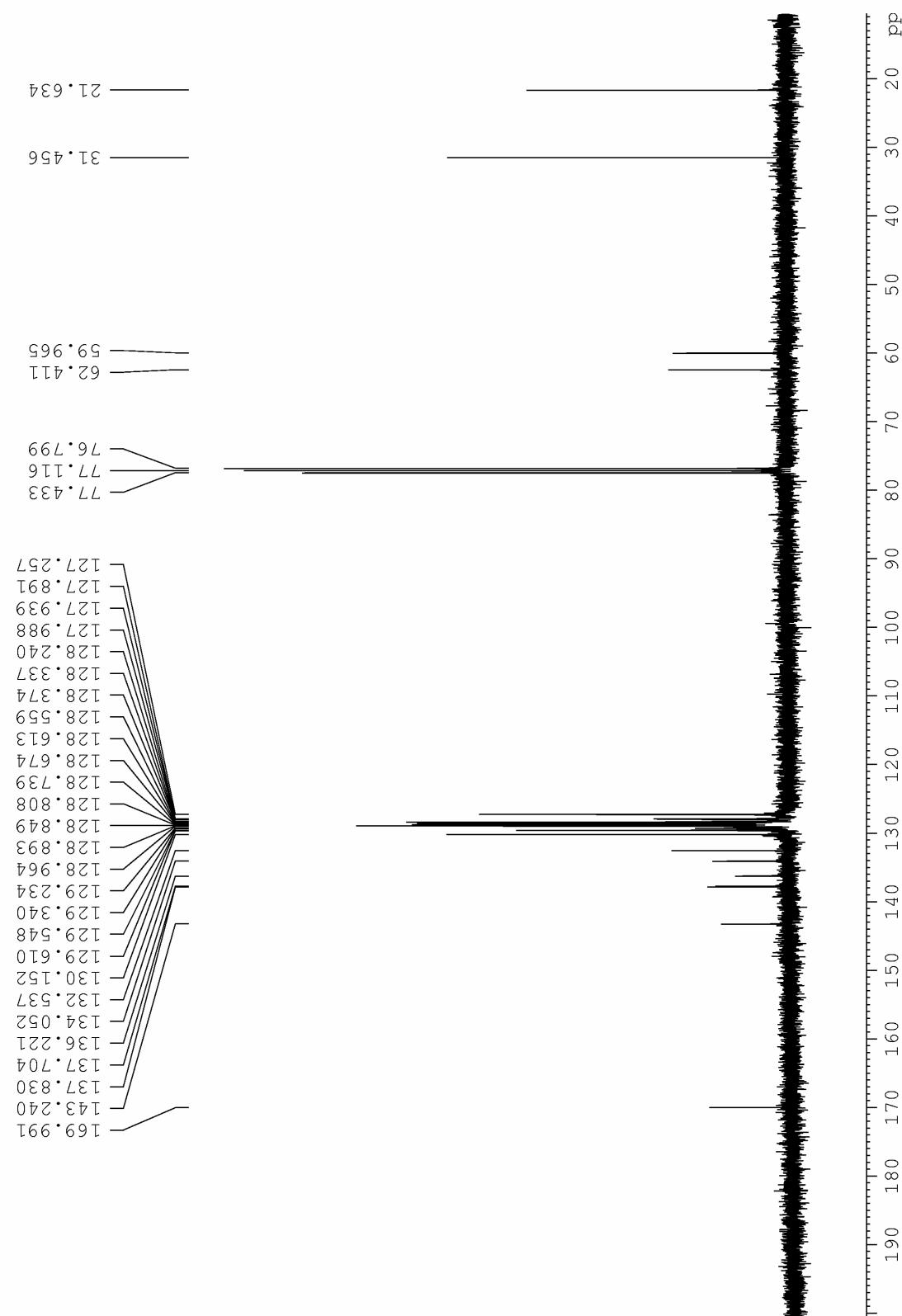
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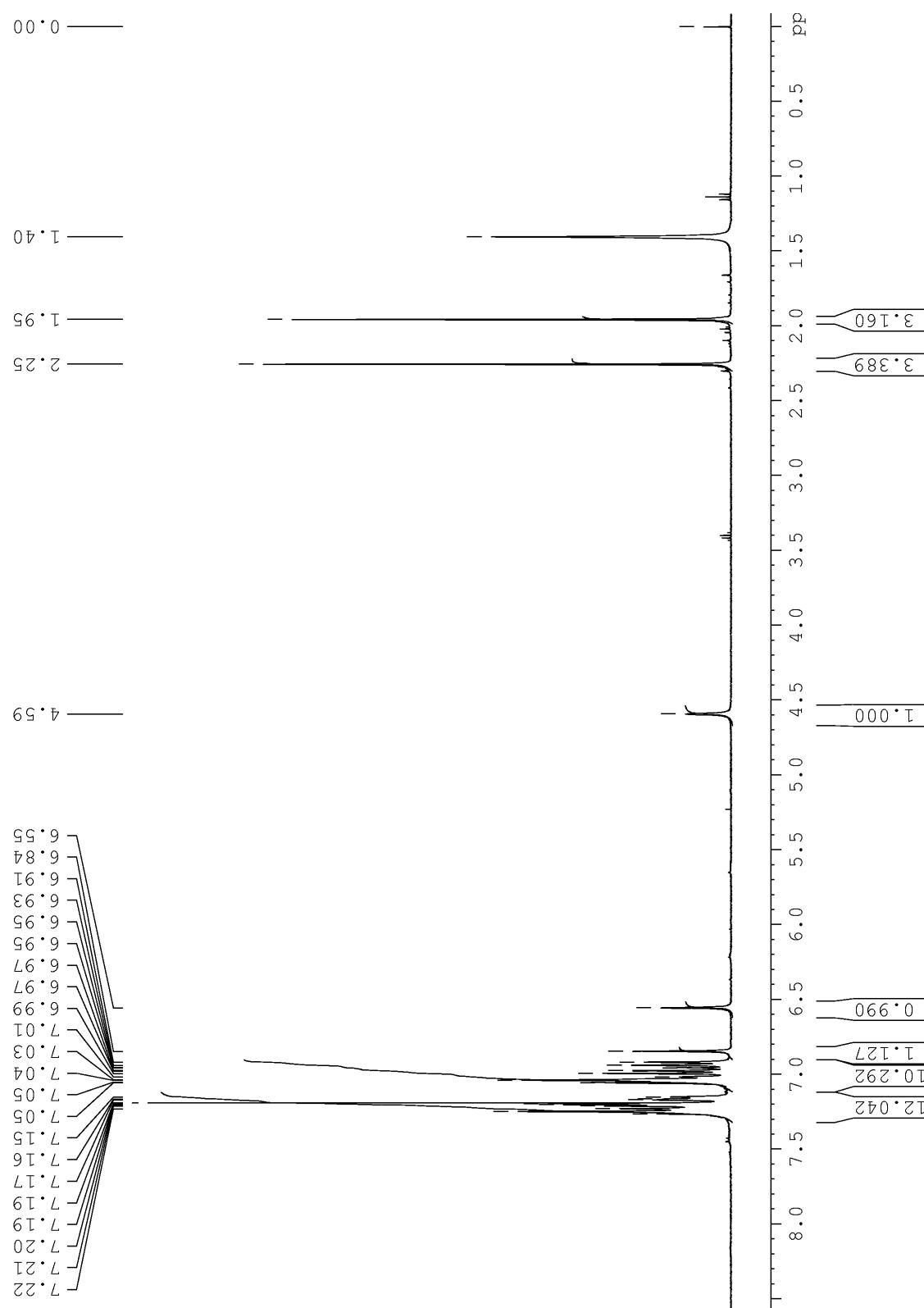
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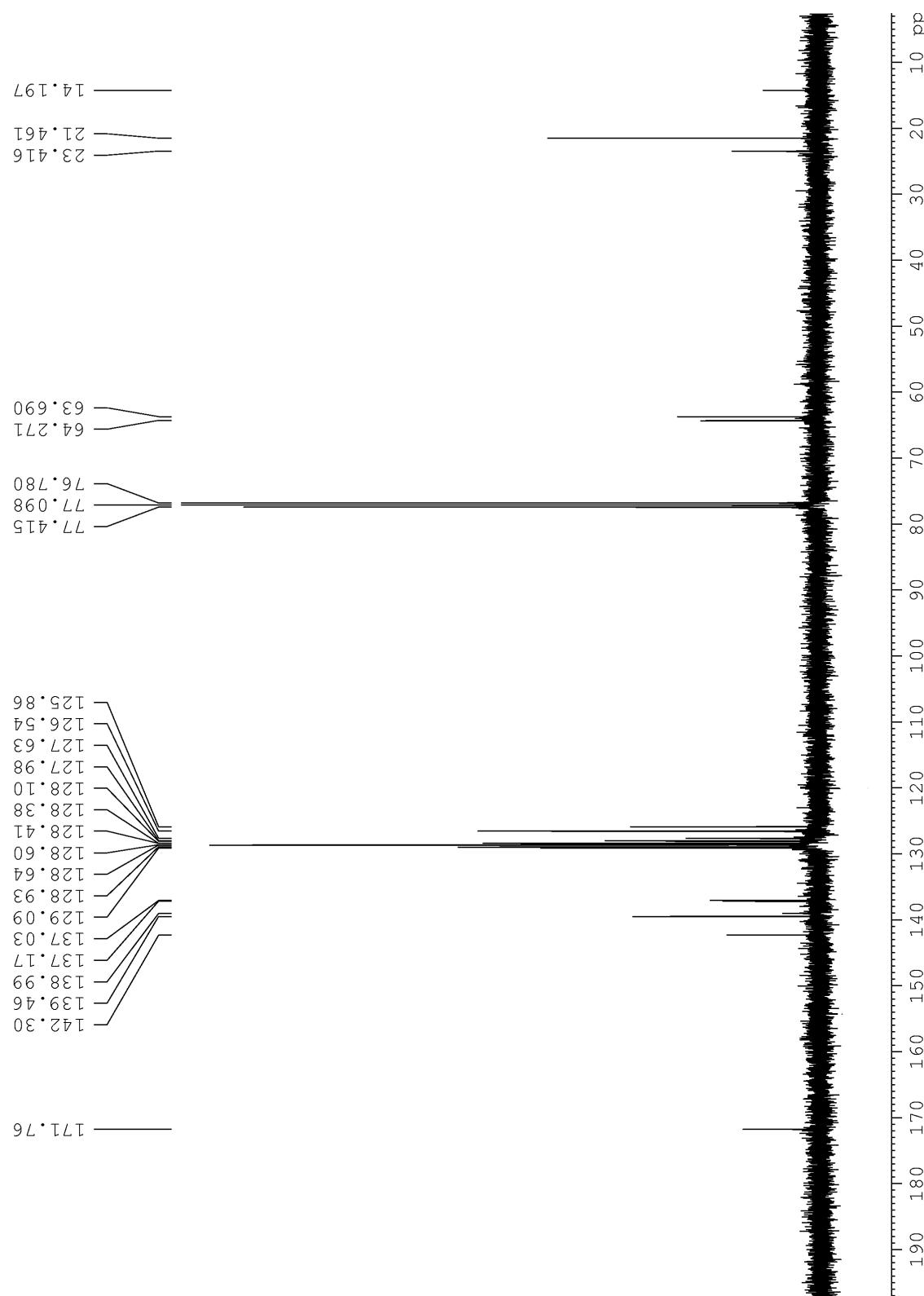
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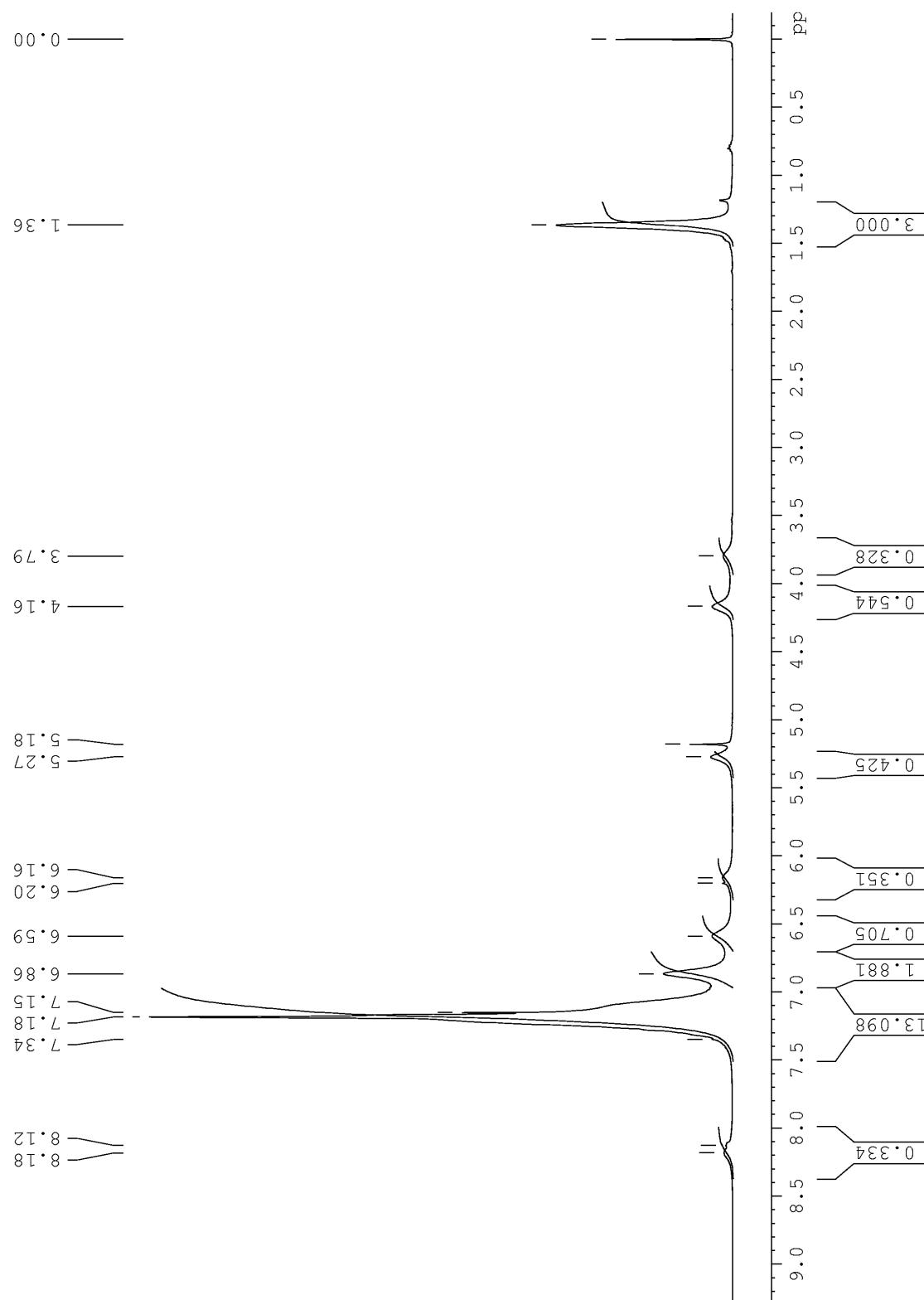
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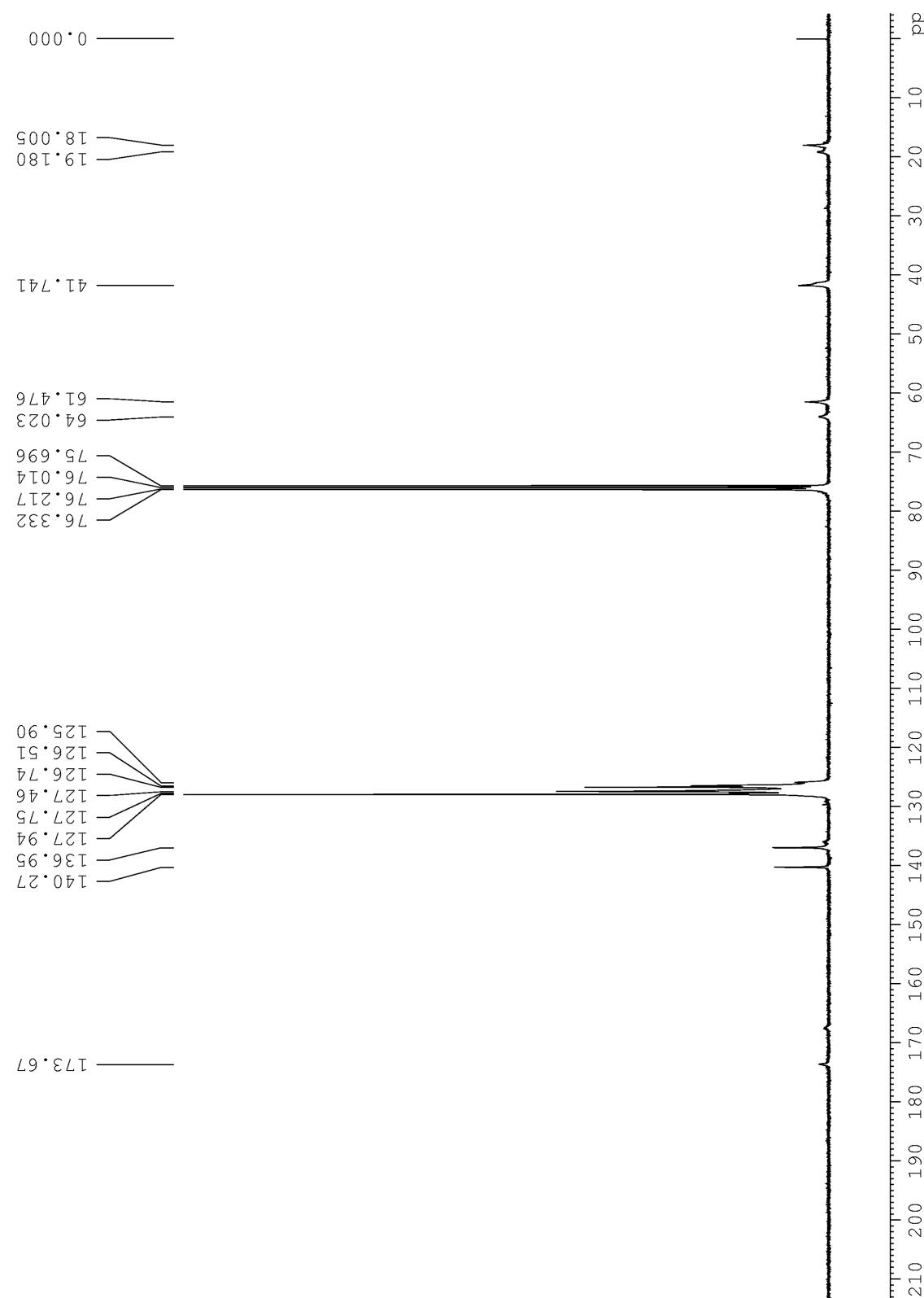
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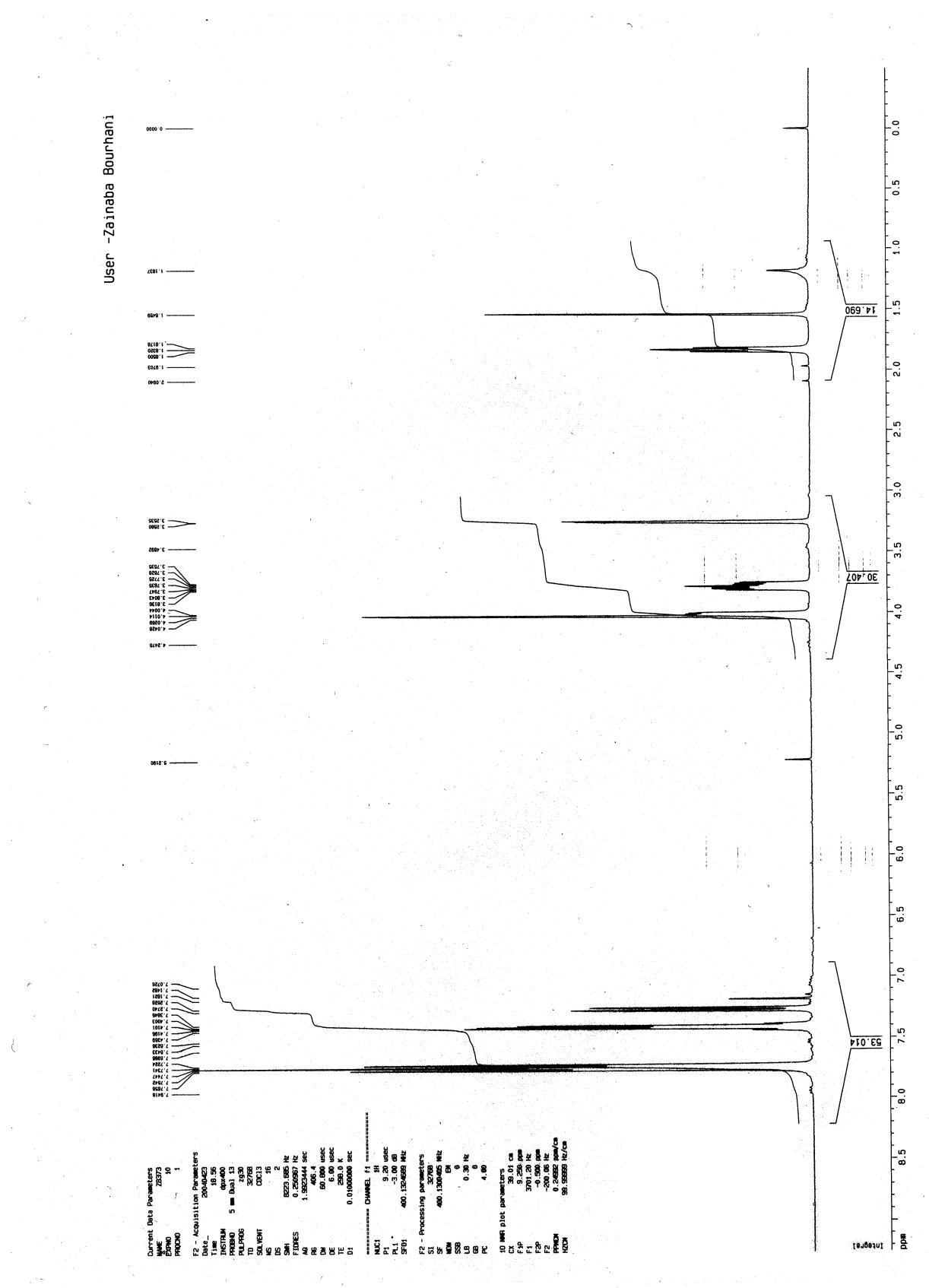
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Ligand **10**,  $^1\text{H}$  NMR

Ligand **10**,  $^{13}\text{C}$  NMR

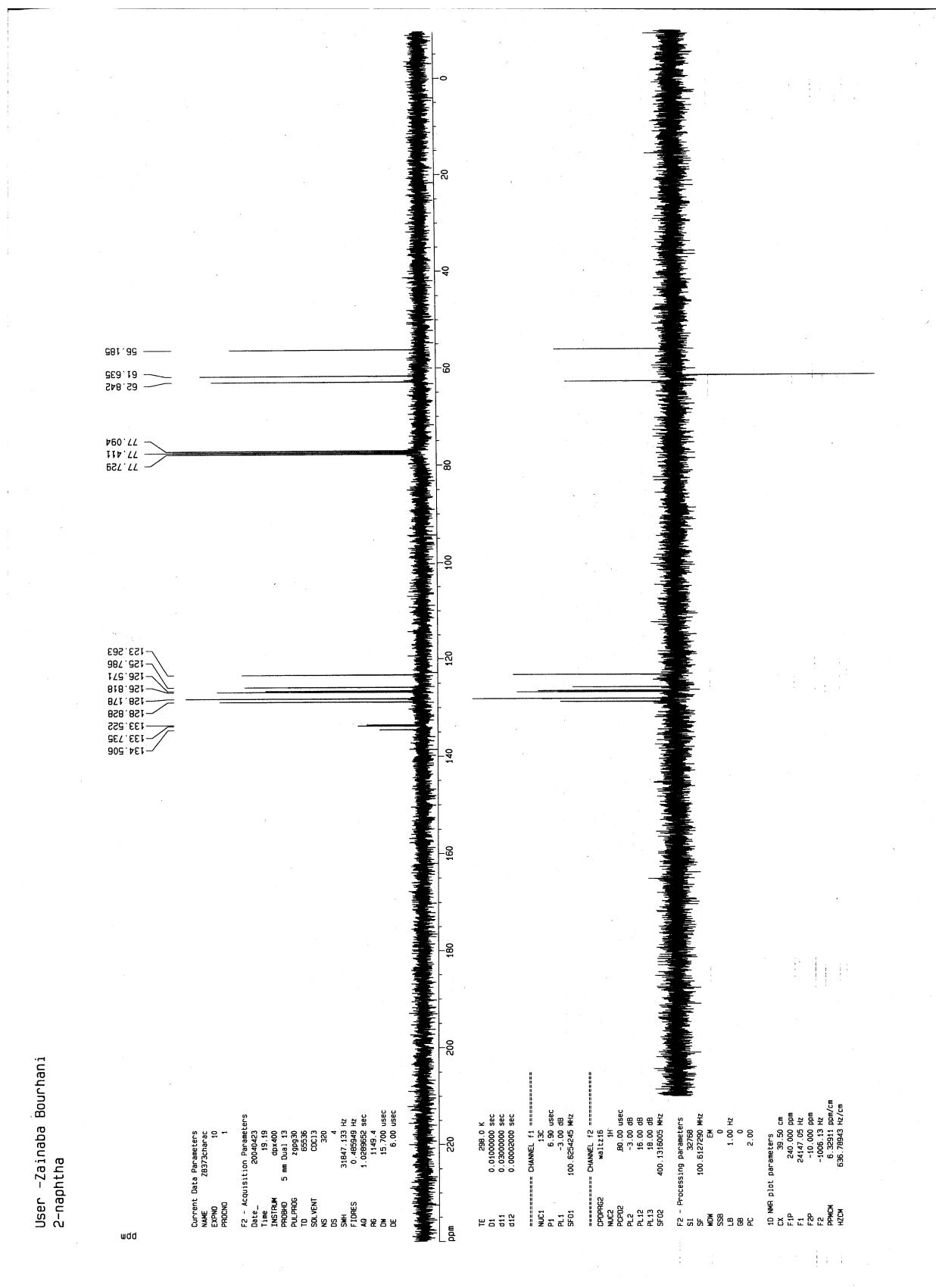
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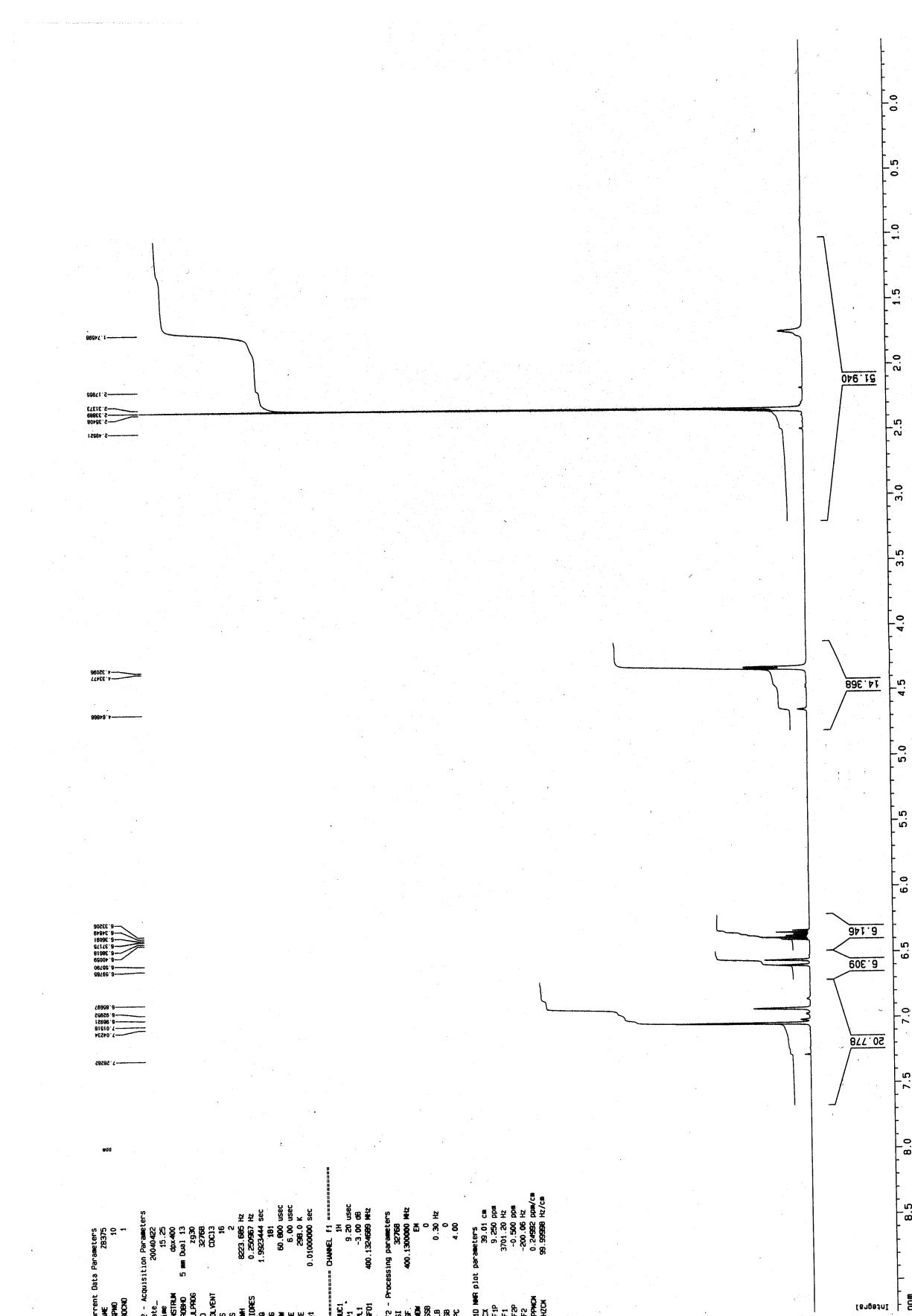
Ligand **11**,  $^{13}\text{C}$  NMR

Epoxide from allylic alcohol **27**,  $^1\text{H}$  NMR

S(2) 25

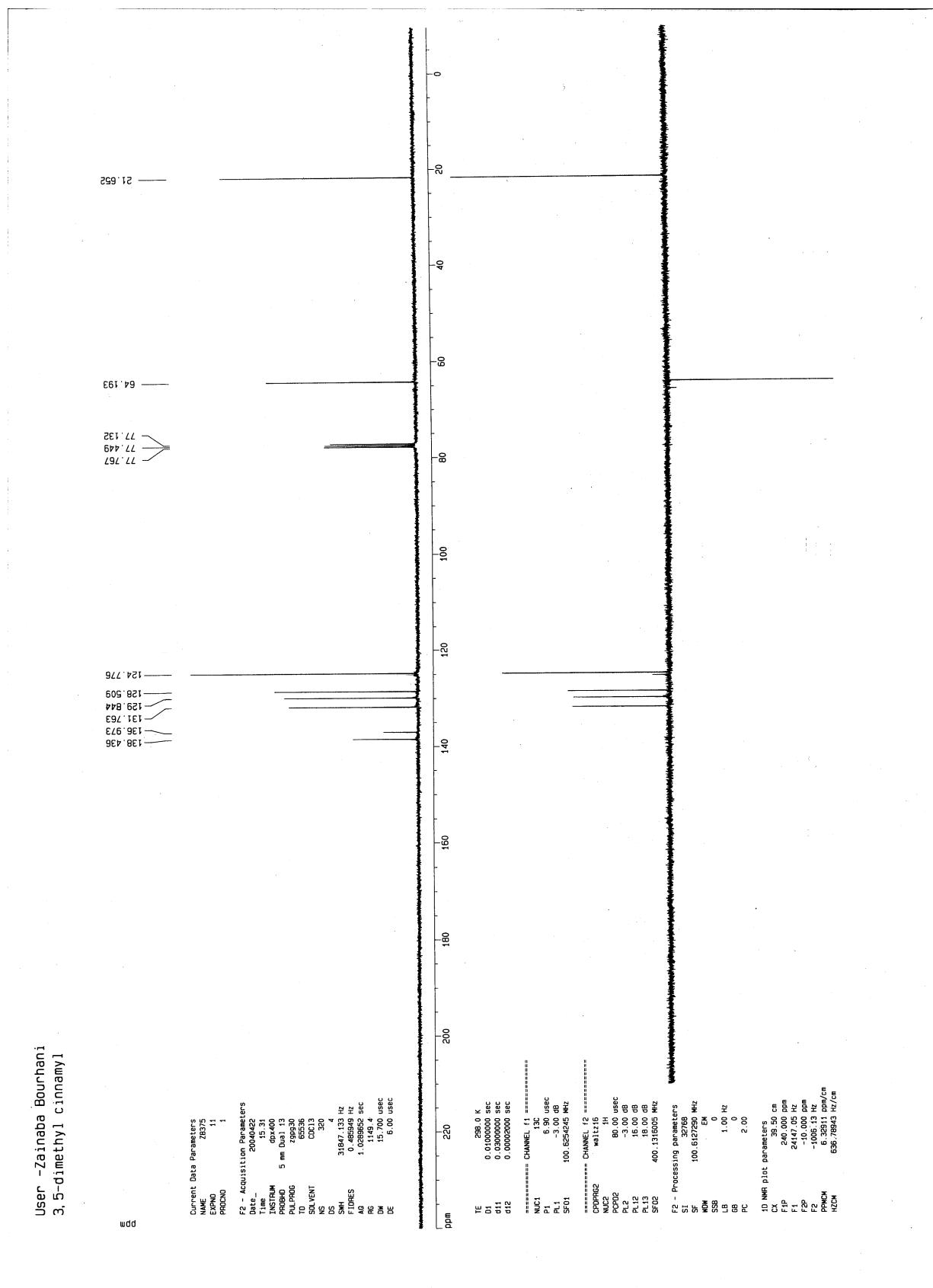
Epoxide from allylic alcohol **27**,  $^{13}\text{C}$  NMR



3',5'-Dimethylcinnamyl alcohol **29**,  $^1\text{H}$  NMR

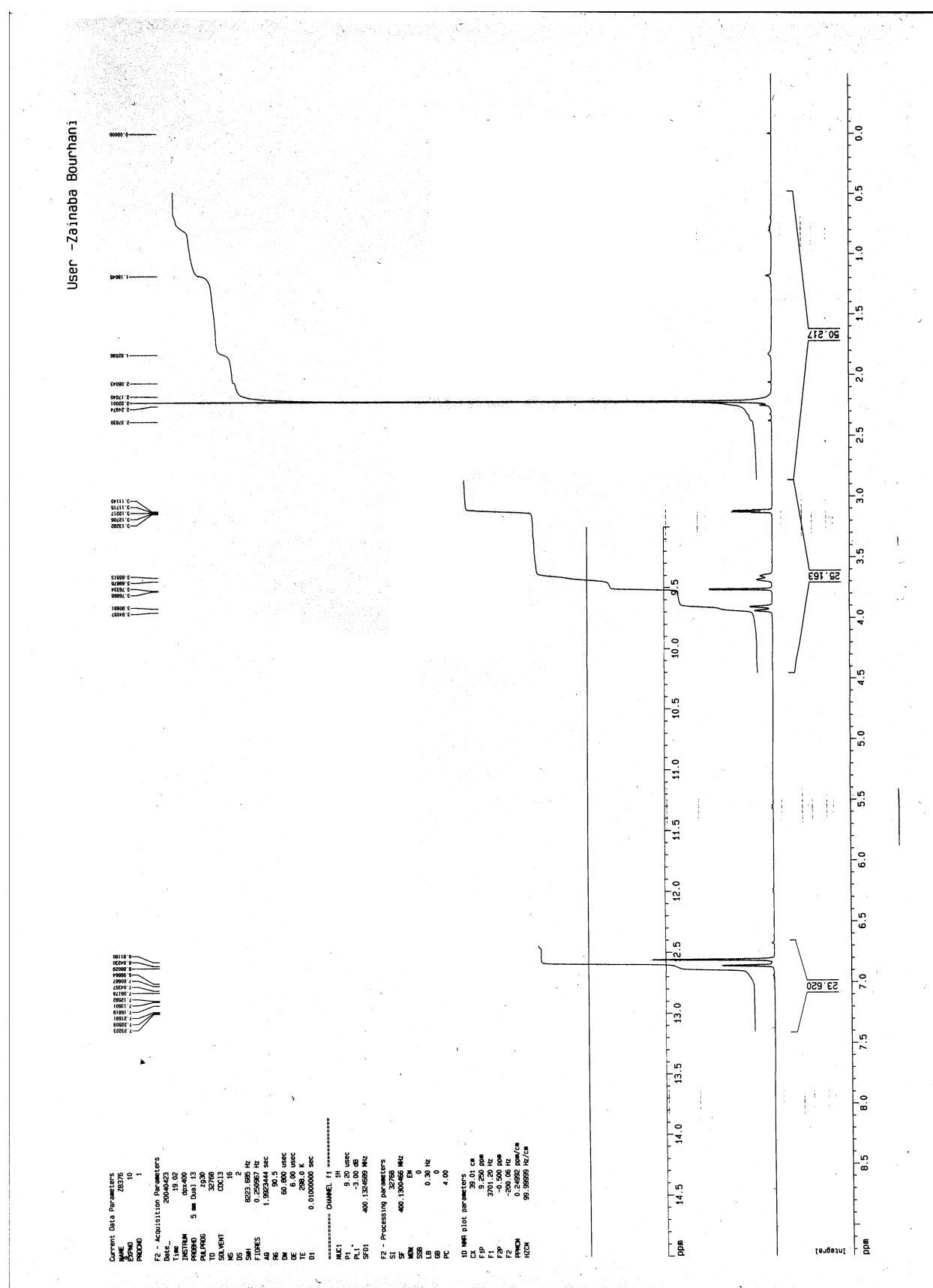
# S(2) 27

## 3',5'-Dimethylcinnamyl alcohol **29**, $^{13}\text{C}$ NMR



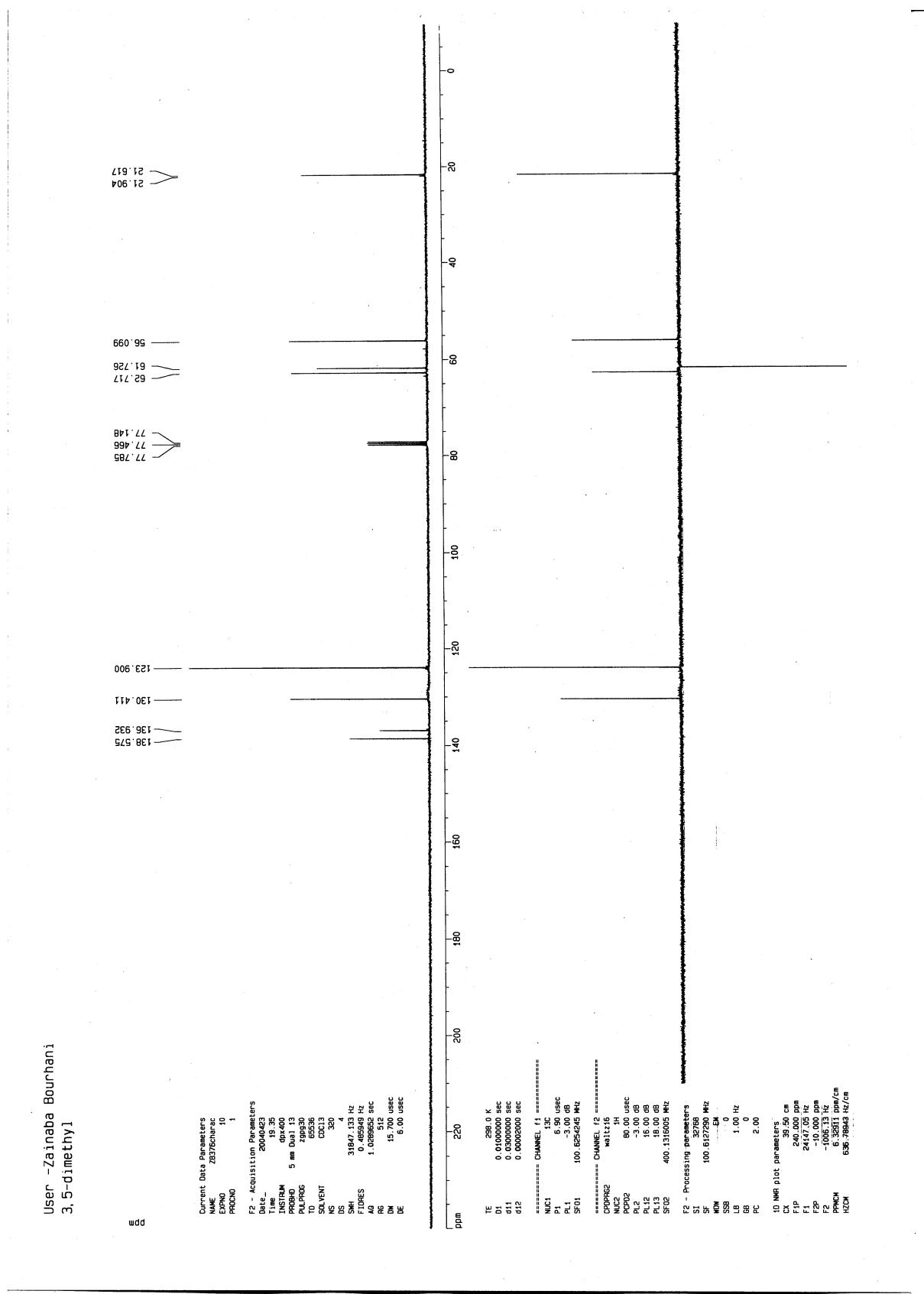
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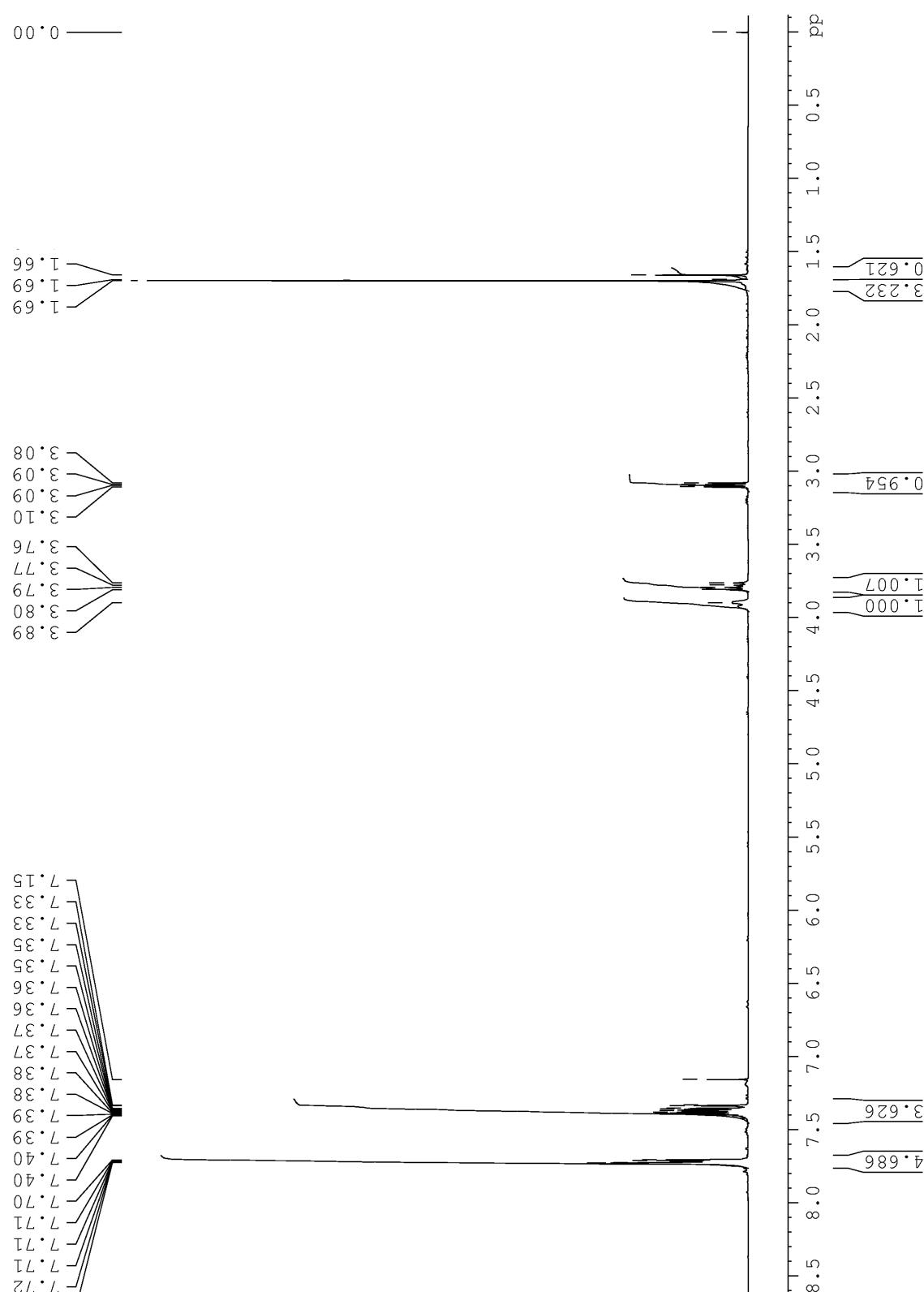
### Epoxide from allylic alcohol **29**, $^1\text{H}$ NMR



S(2) 29

Epoxide from allylic alcohol **29**,  $^{13}\text{C}$  NMR



Epoxide from allylic alcohol **31**,  $^1\text{H}$  NMR

Epoxide from allylic alcohol **31**,  $^{13}\text{C}$  NMR