

# Intracomplex general acid/base catalyzed cleavage of RNA phosphodiester bonds: the leaving group effect

## Supporting information

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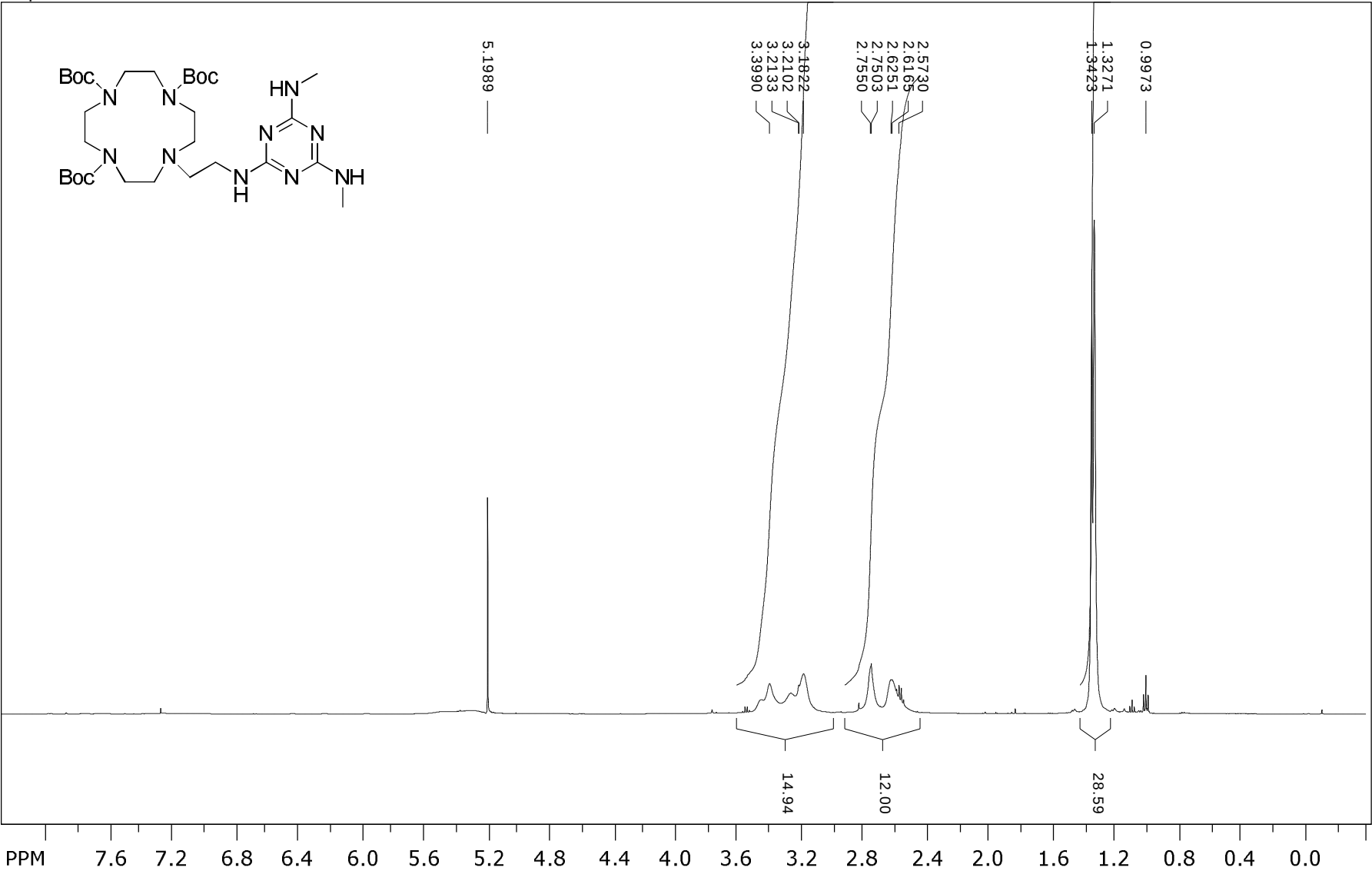
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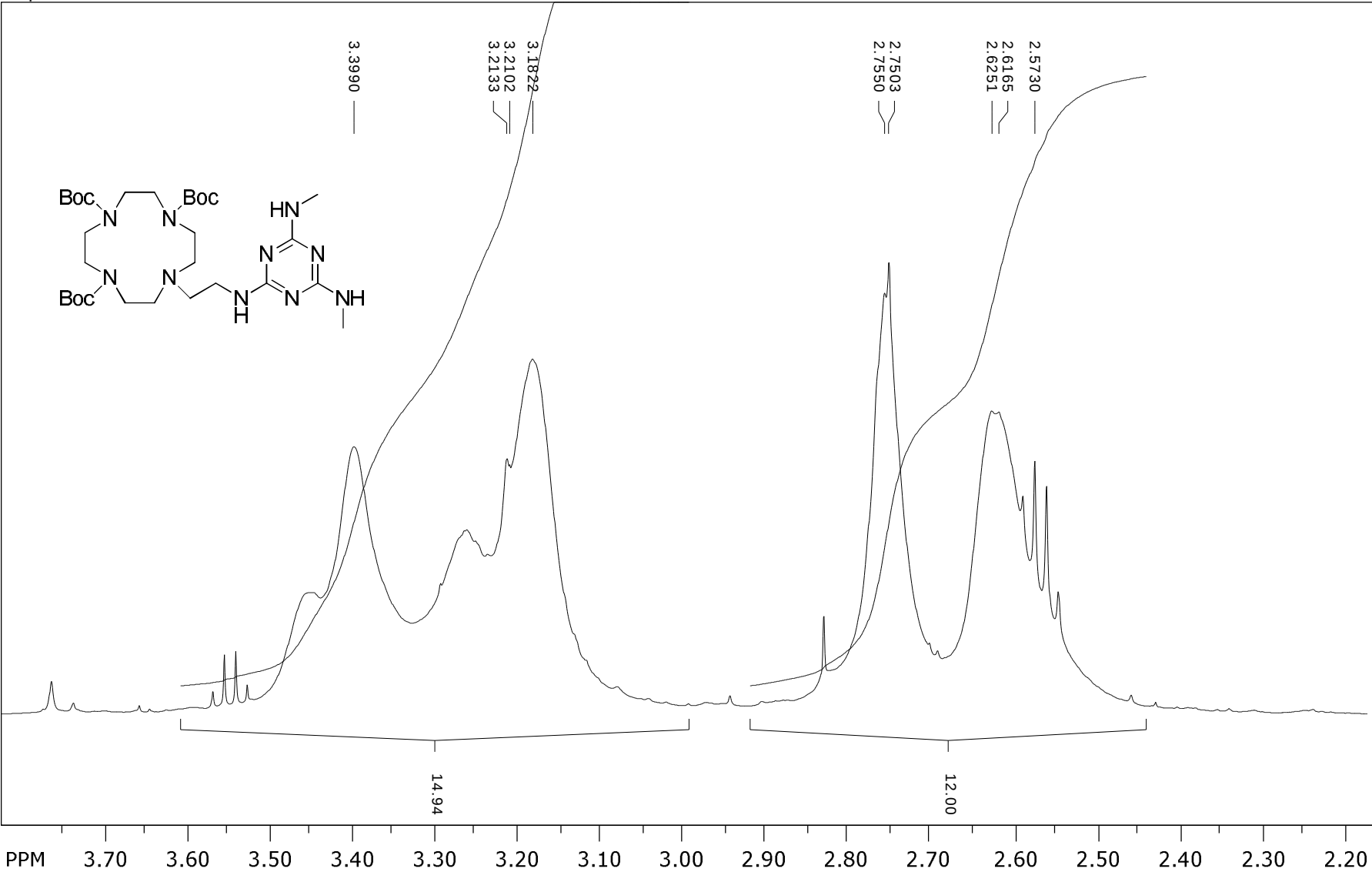
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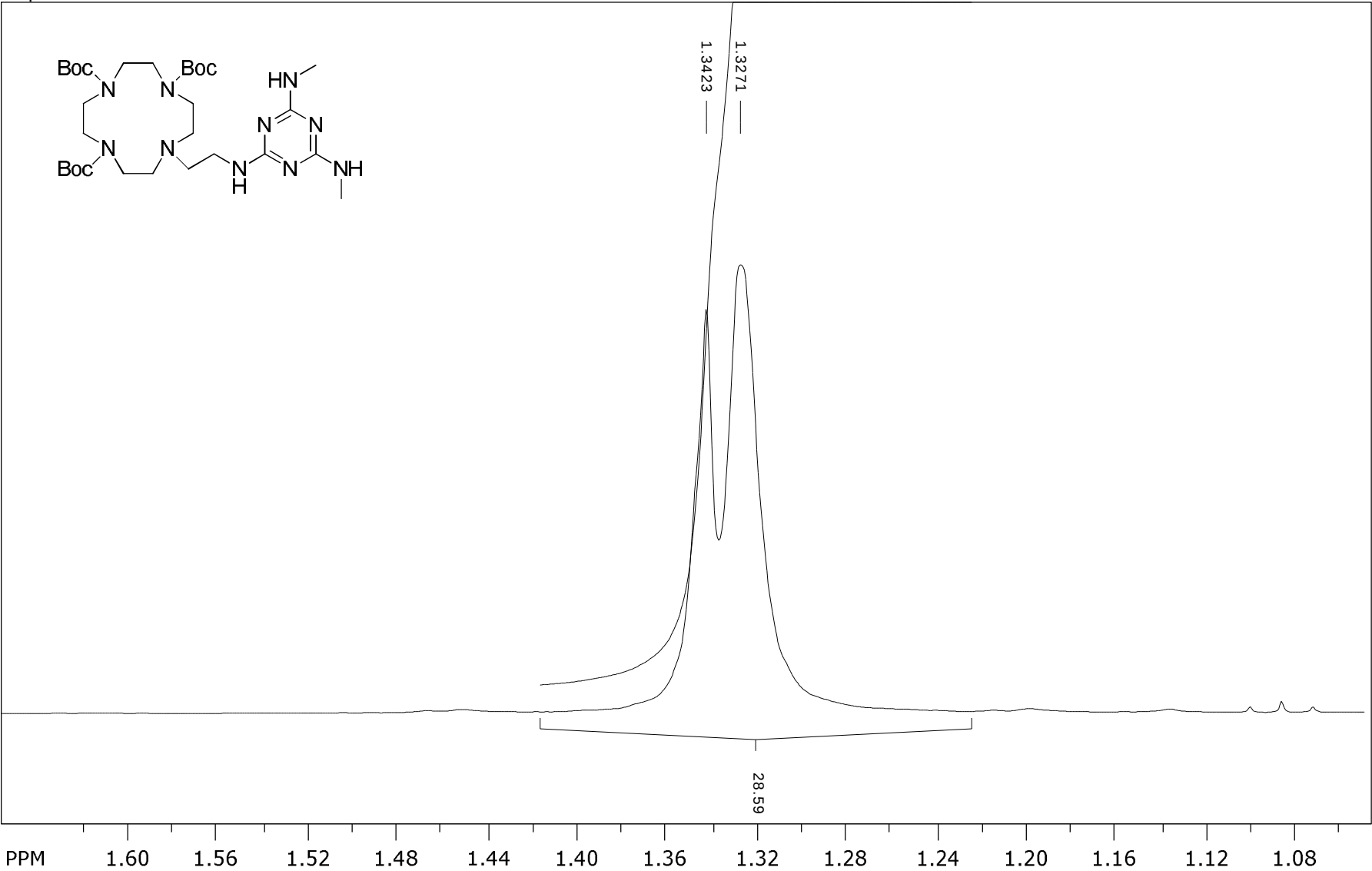
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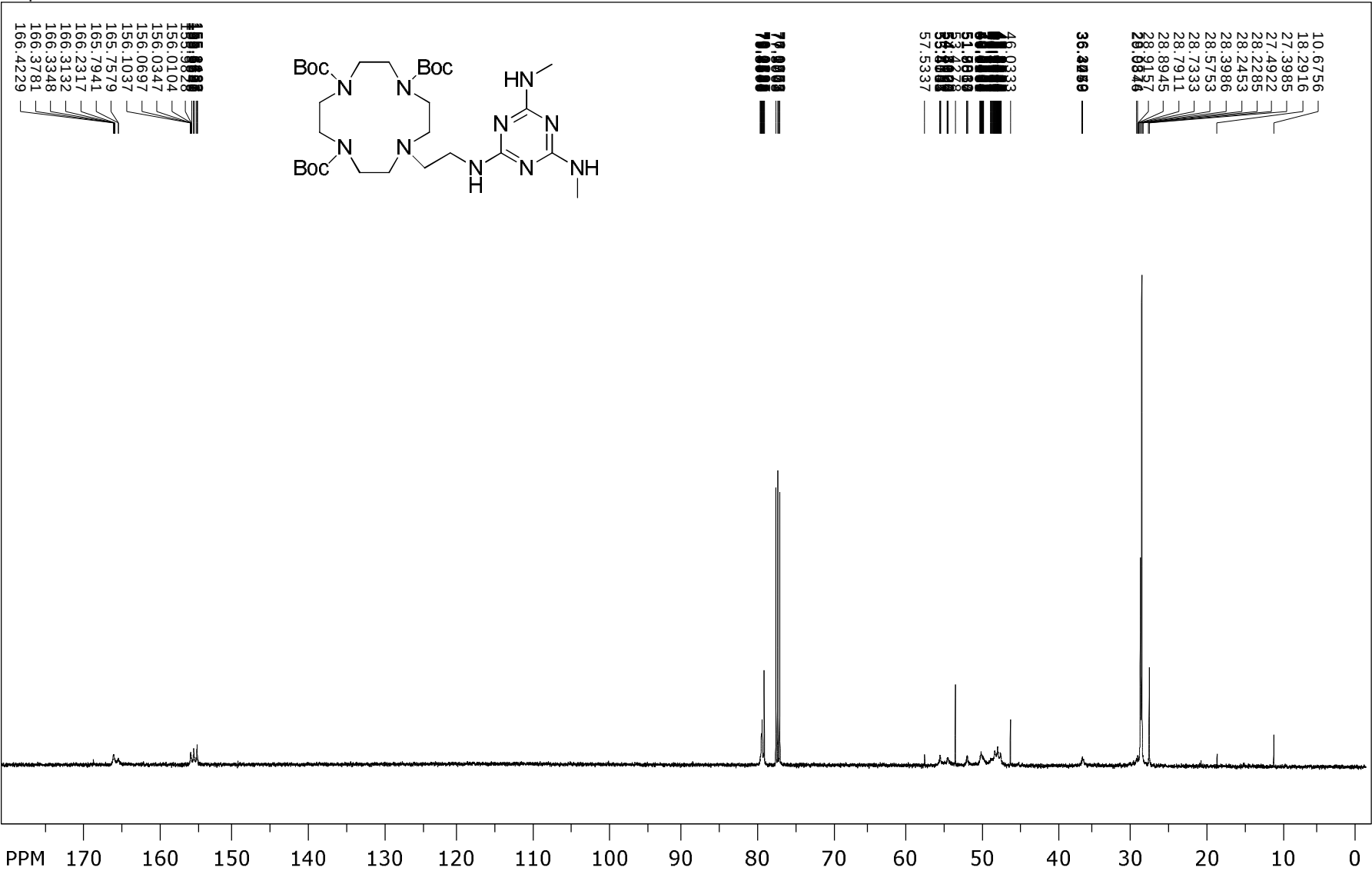
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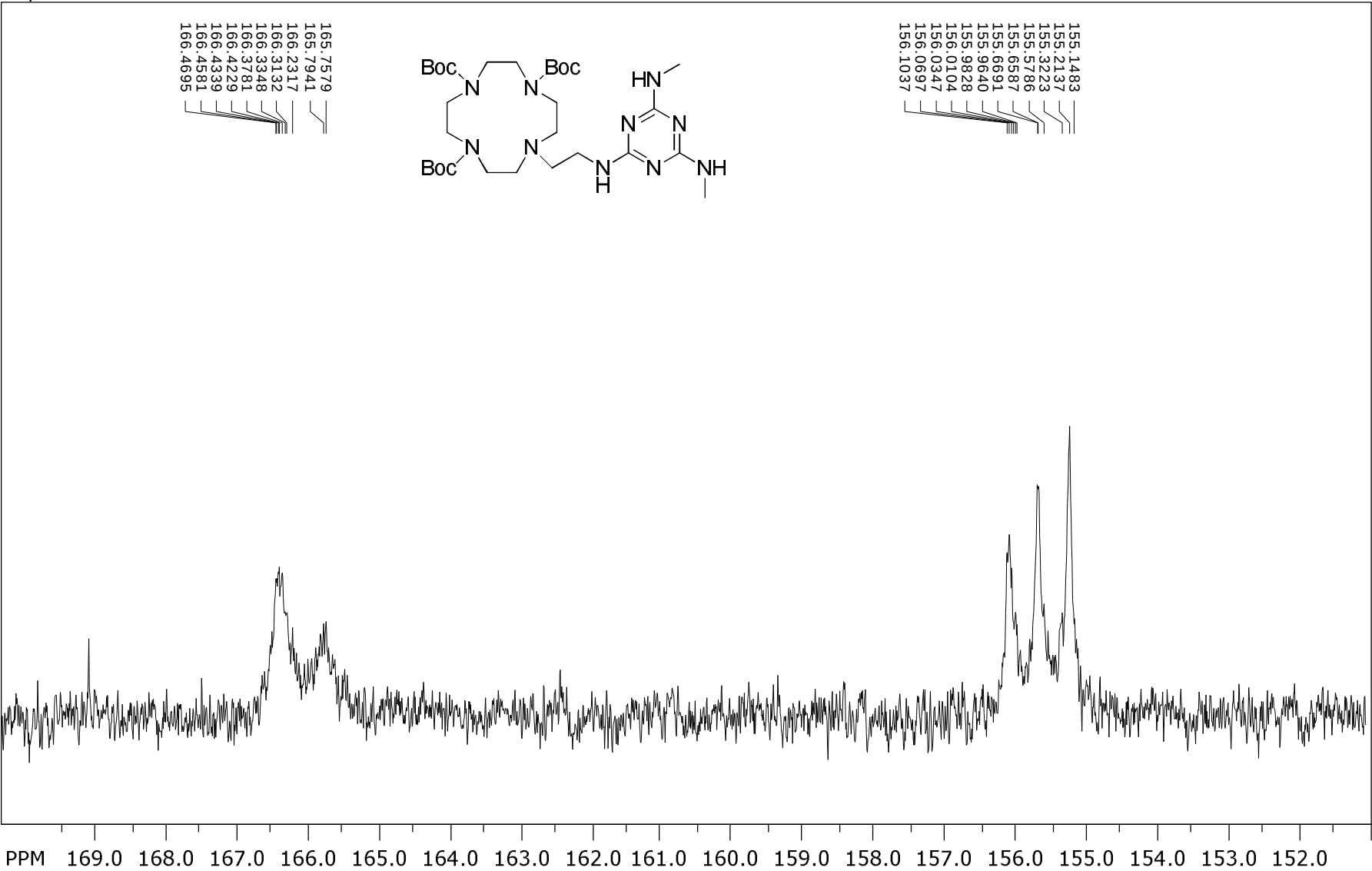
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <u><sup>1</sup>H NMR spectrum of <i>N</i><sup>2</sup>-{2-[<i>N</i><sup>4</sup>,<i>N</i><sup>7</sup>,<i>N</i><sup>10</sup>-tris(<i>tert</i>-butoxycarbonyl)-1,4,7,10-tetraazacyclododecan-1-yl]ethyl}-<i>N</i><sup>4</sup>,<i>N</i><sup>6</sup>-dimethylmelamine (1)</u>  | <u>S3</u>  |
| <u><sup>13</sup>C NMR spectrum of <i>N</i><sup>2</sup>-{2-[<i>N</i><sup>4</sup>,<i>N</i><sup>7</sup>,<i>N</i><sup>10</sup>-tris(<i>tert</i>-butoxycarbonyl)-1,4,7,10-tetraazacyclododecan-1-yl]ethyl}-<i>N</i><sup>4</sup>,<i>N</i><sup>6</sup>-dimethylmelamine (1)</u> | <u>S6</u>  |
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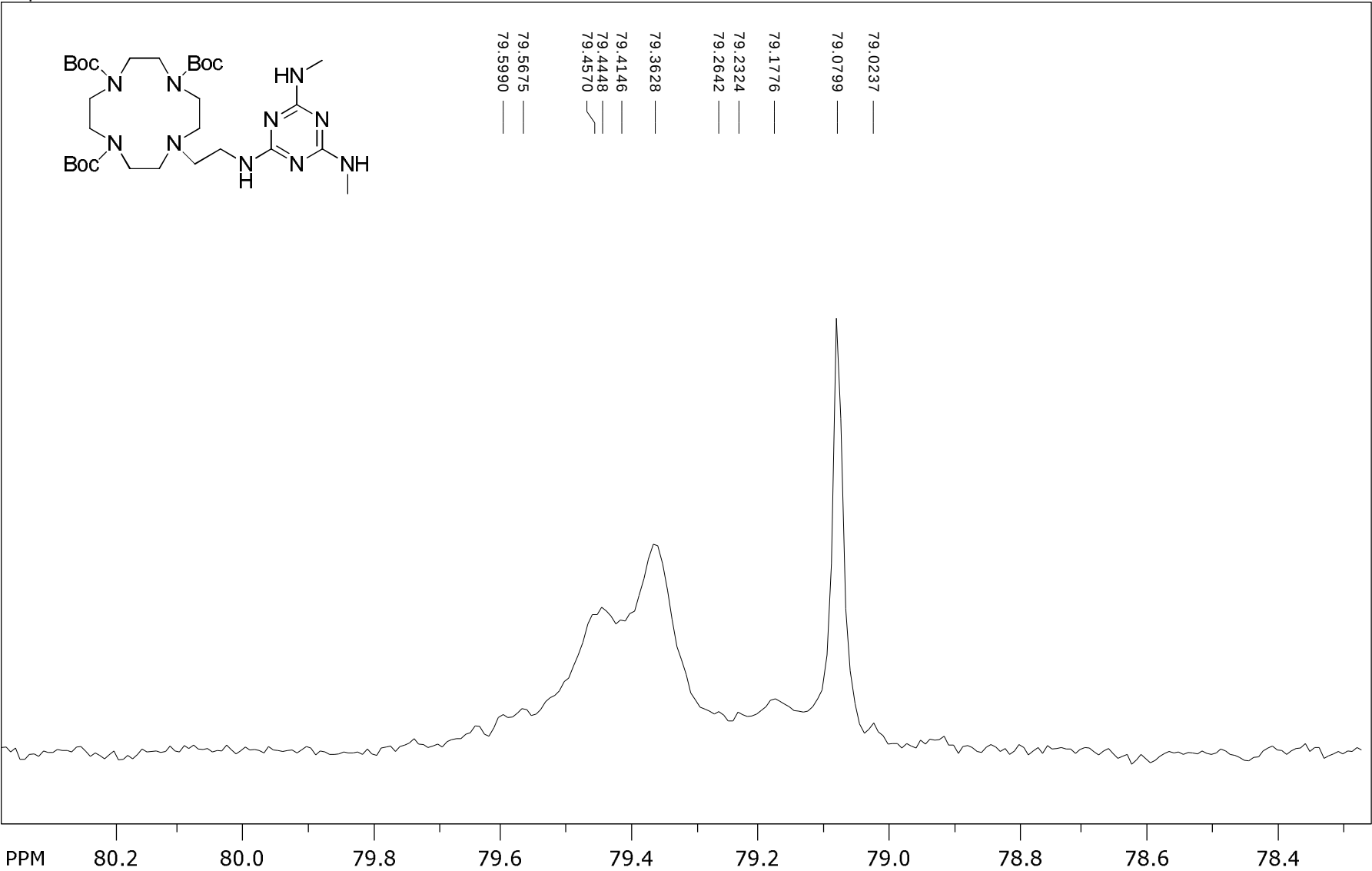


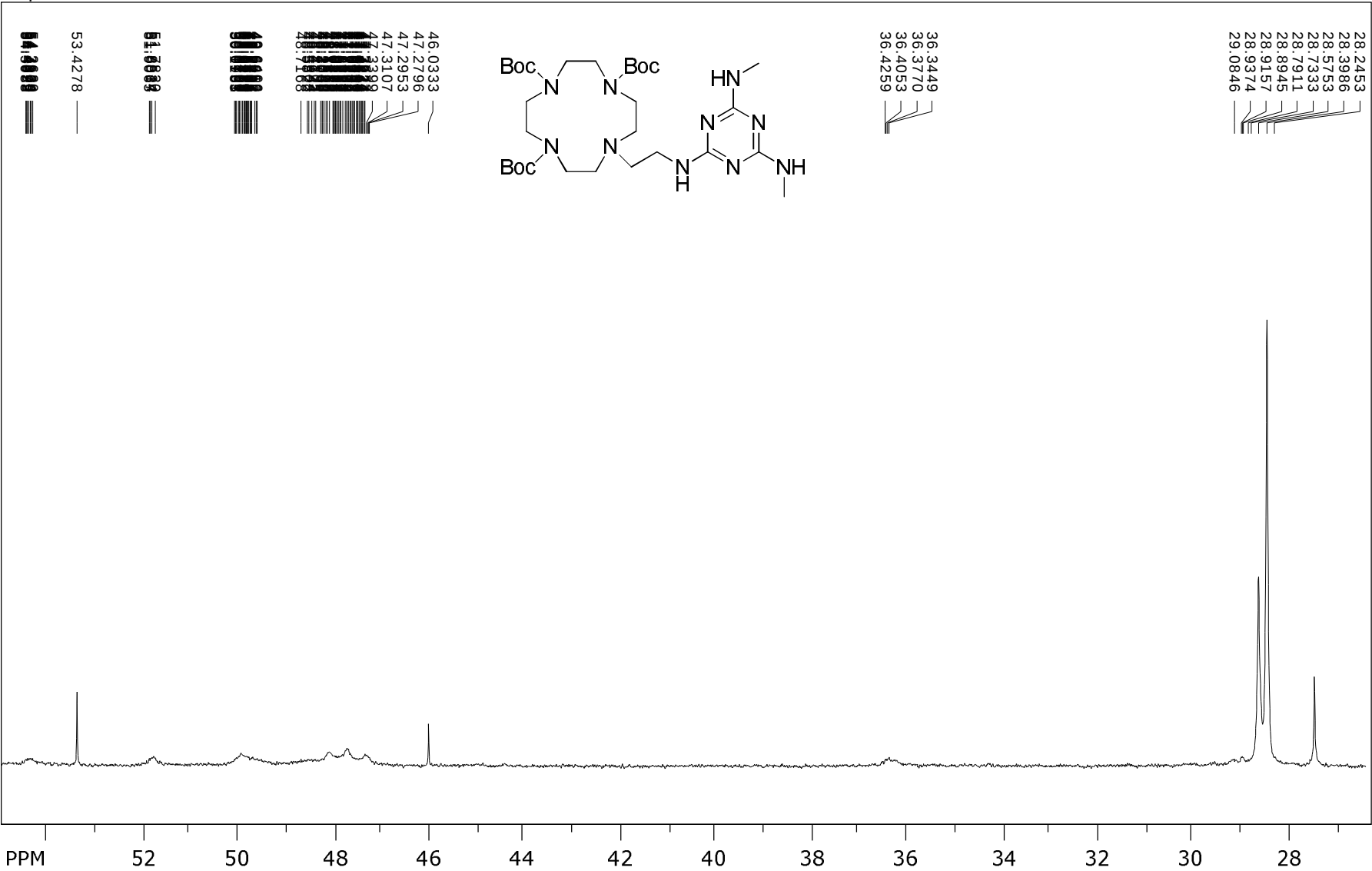


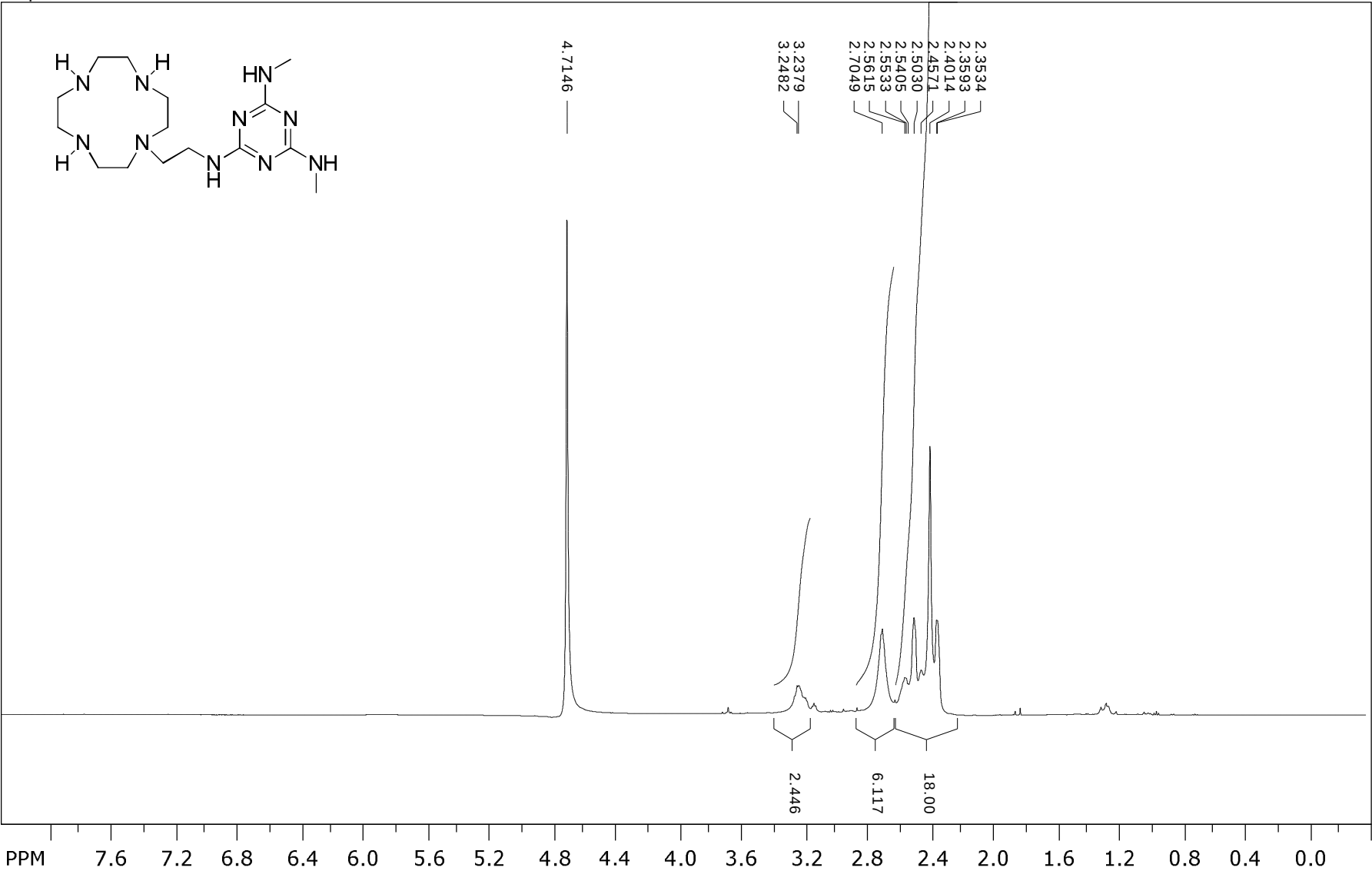


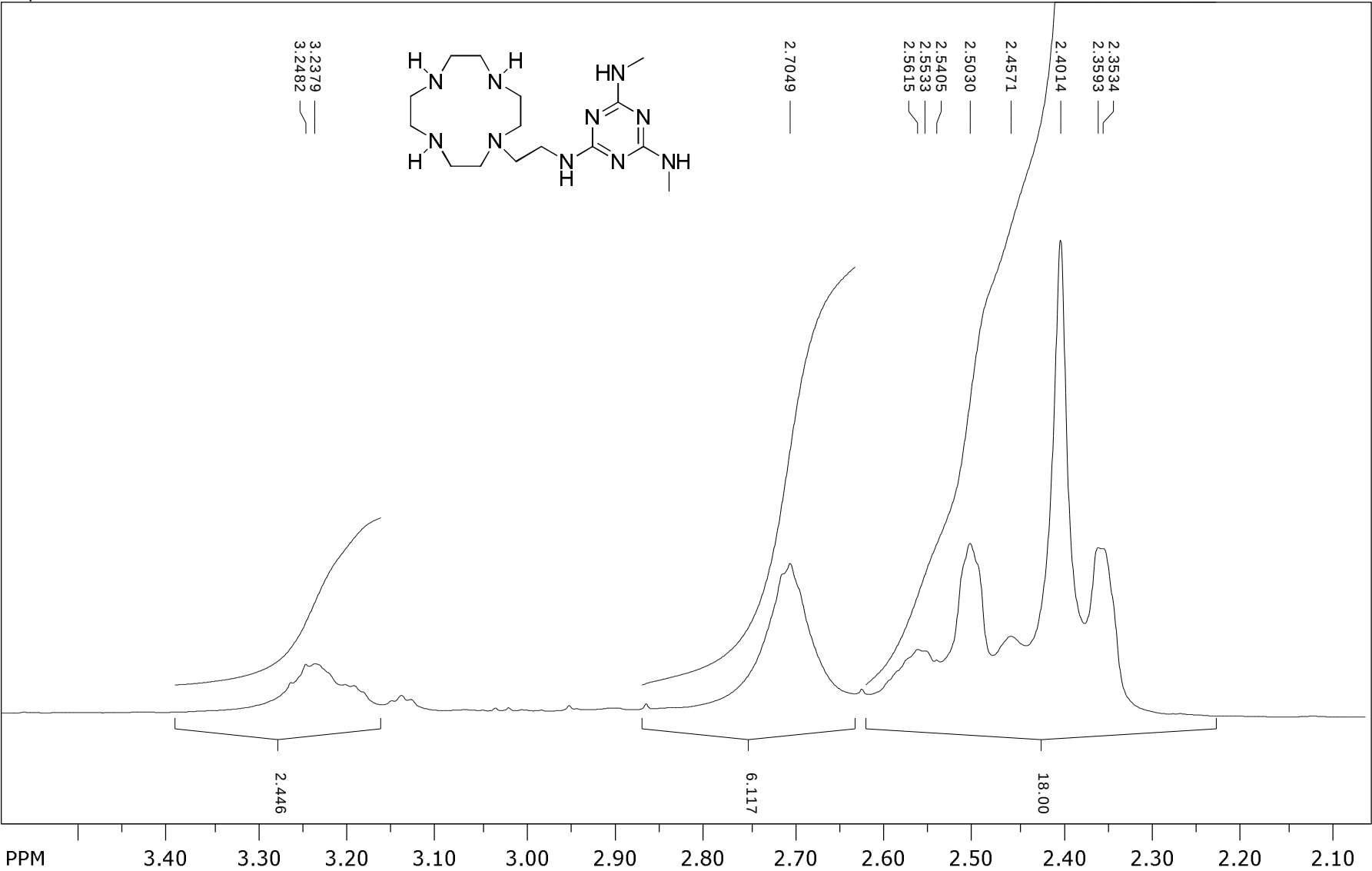


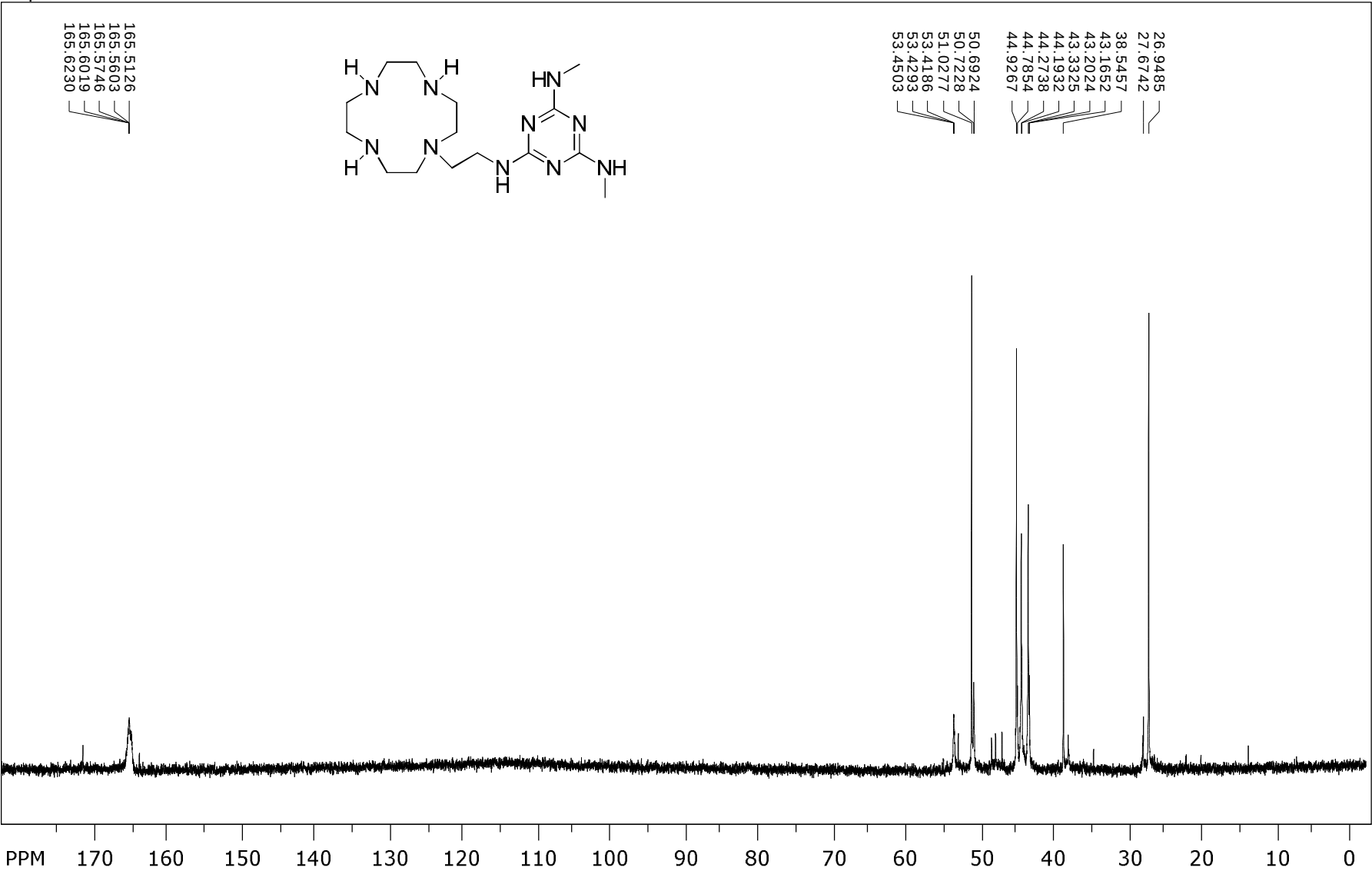


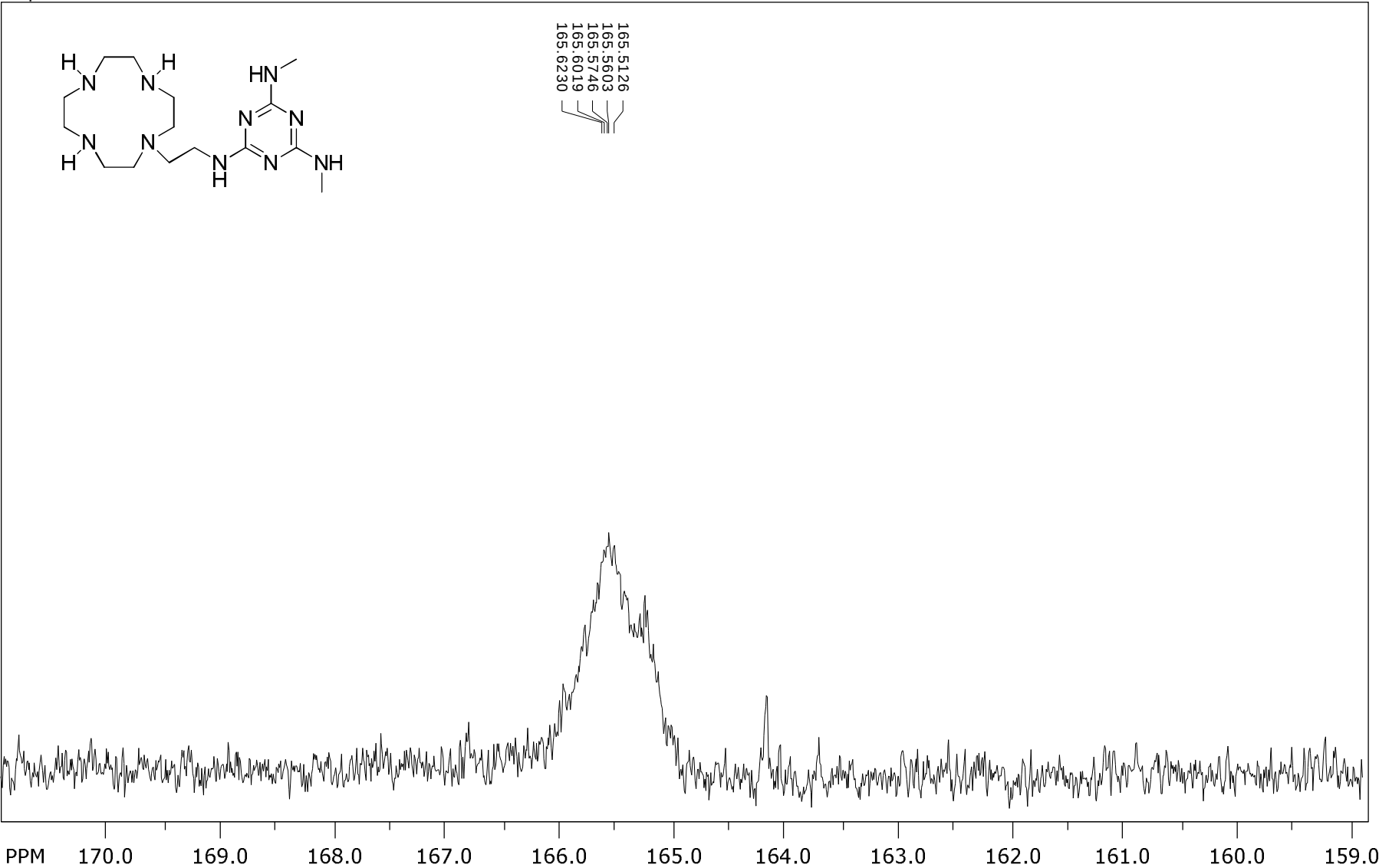


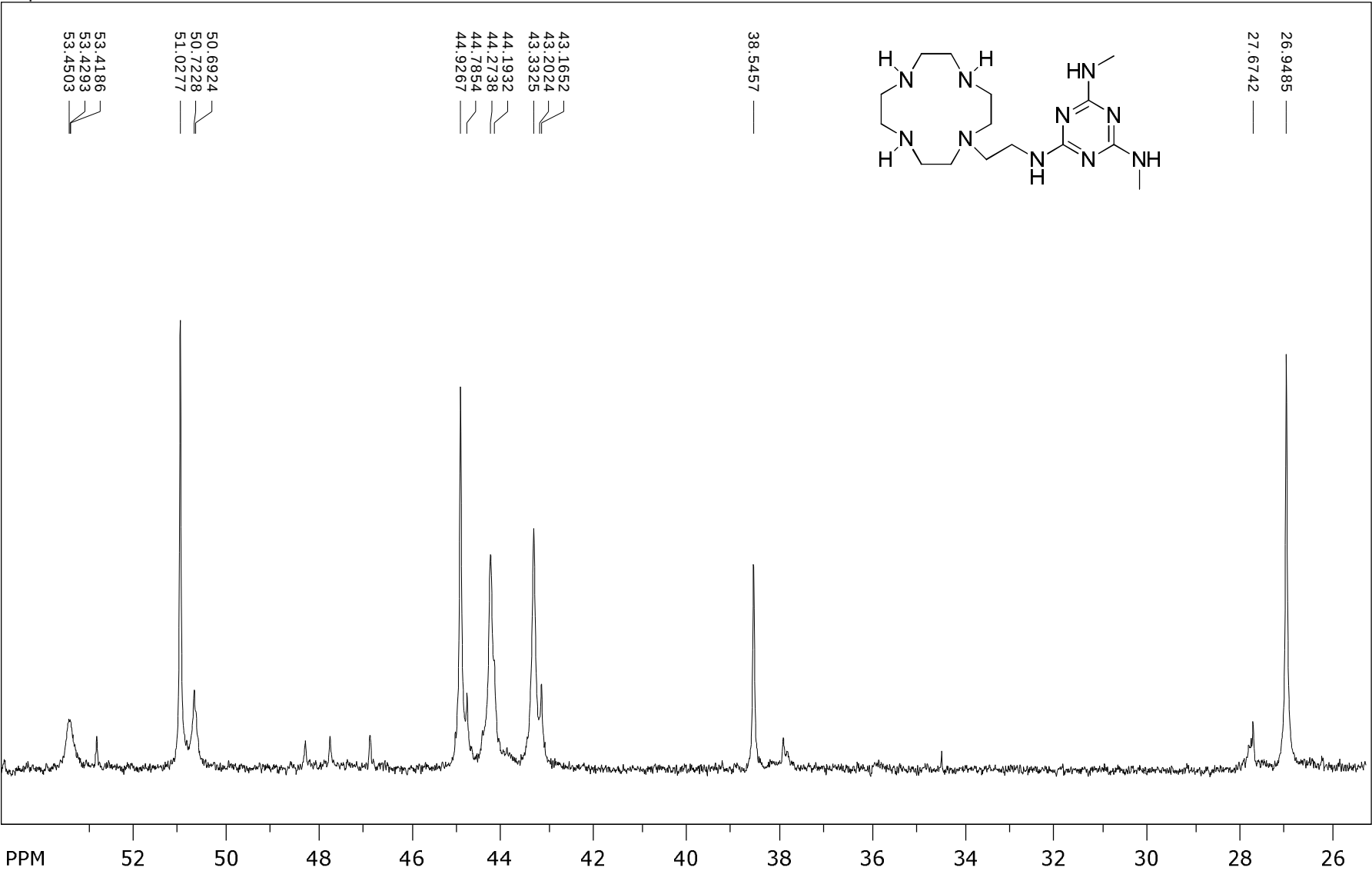


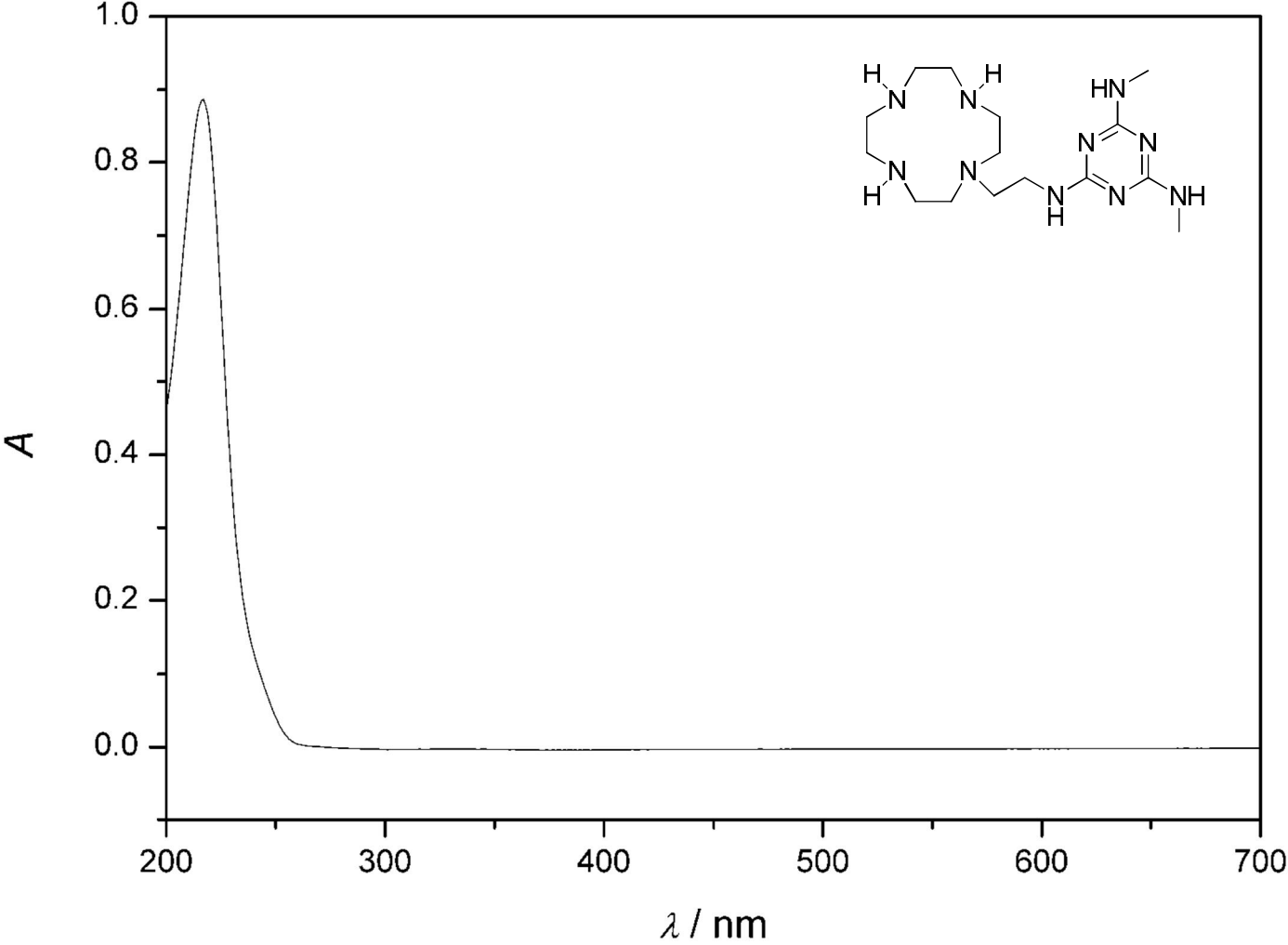












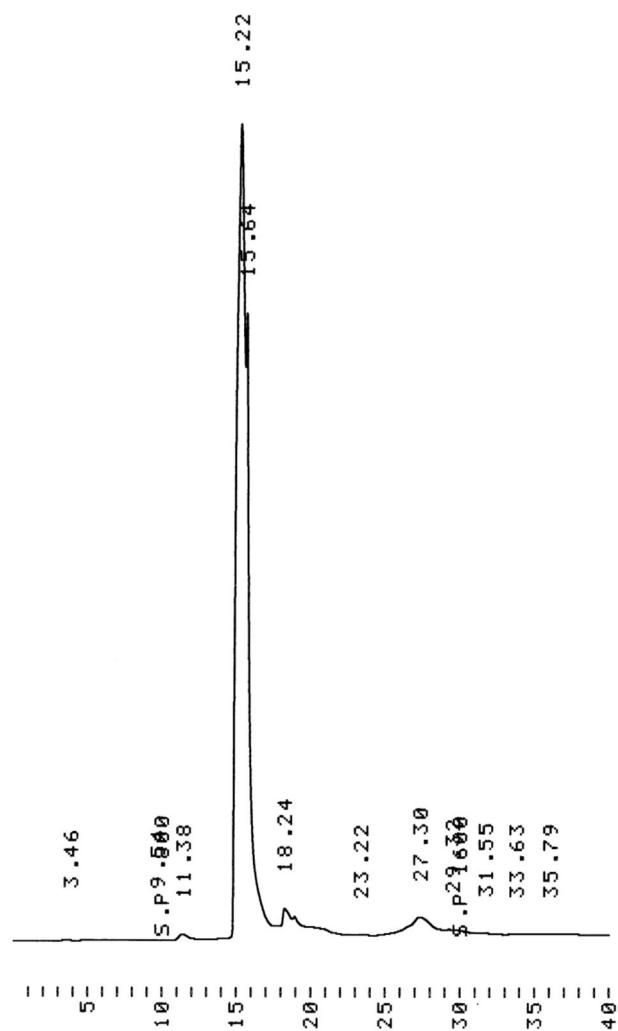


Figure S1 HPLC chromatogram of compound 2 [Thermo ODS hypersil column ( $250 \times 4.6$  mm,  $5 \mu\text{m}$ ); flow rate =  $1.0 \text{ mL min}^{-1}$ ;  $60 \text{ mmol L}^{-1}$  acetate buffer (pH = 4.3) and a linear gradient of 0 to 40% of MeCN during 30 min, after which 40% MeCN for 10 min;  $\lambda = 250 \text{ nm}$ ].

