

Supplementary Materials: Catalytic Synthesis of a New Series of Alkyl Uronates and Evaluation of Their Physicochemical Properties

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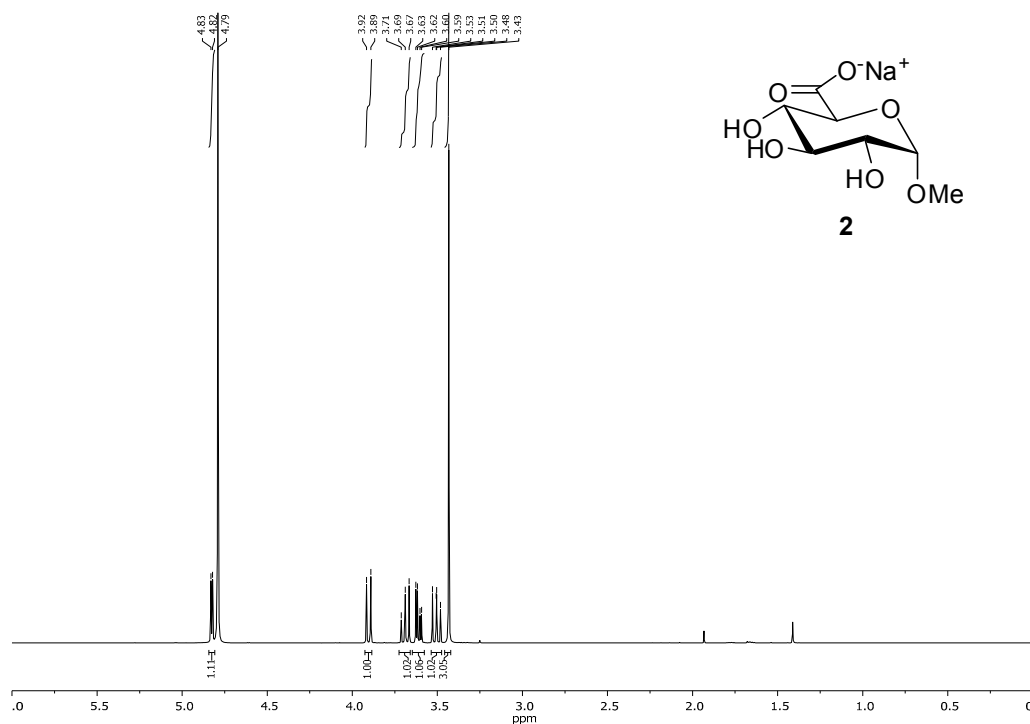


Figure S1. $^1\text{H-NMR}$ spectra of sodium (methyl α -D-glucopyranosid)uronate 2.

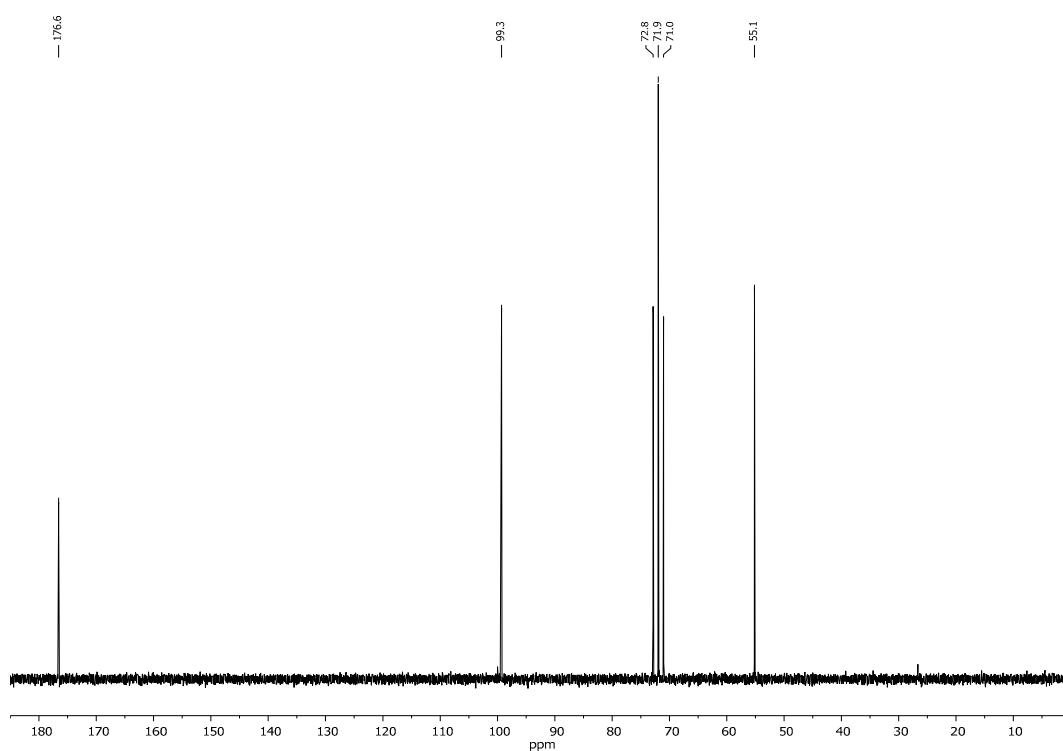
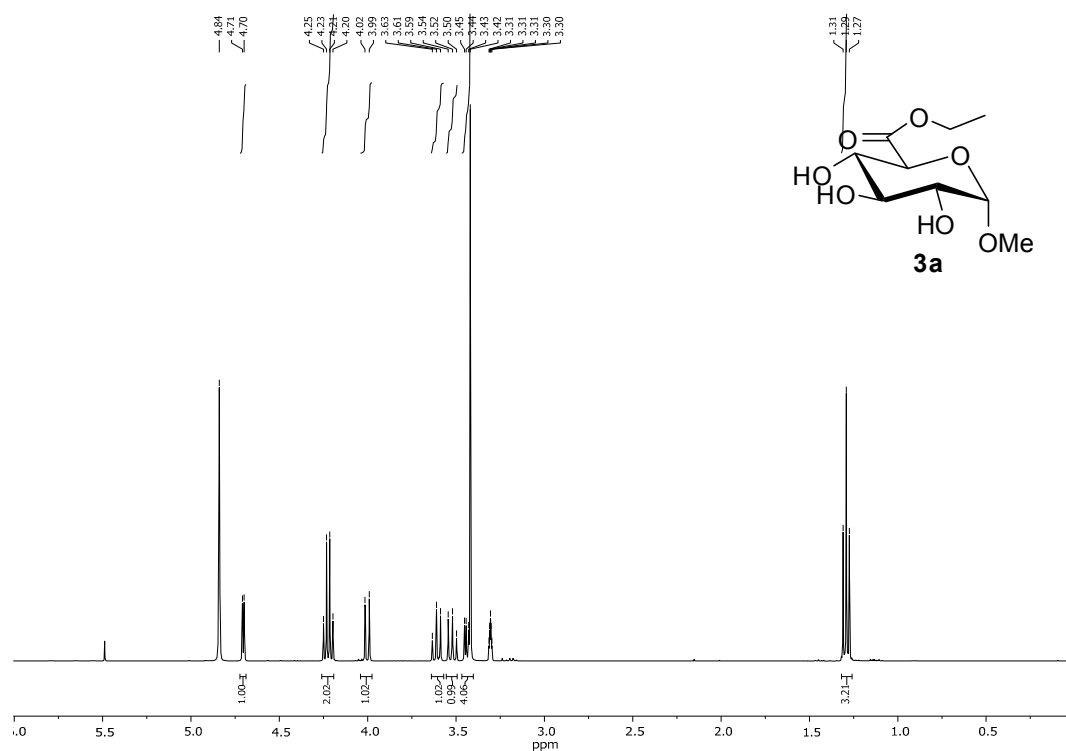
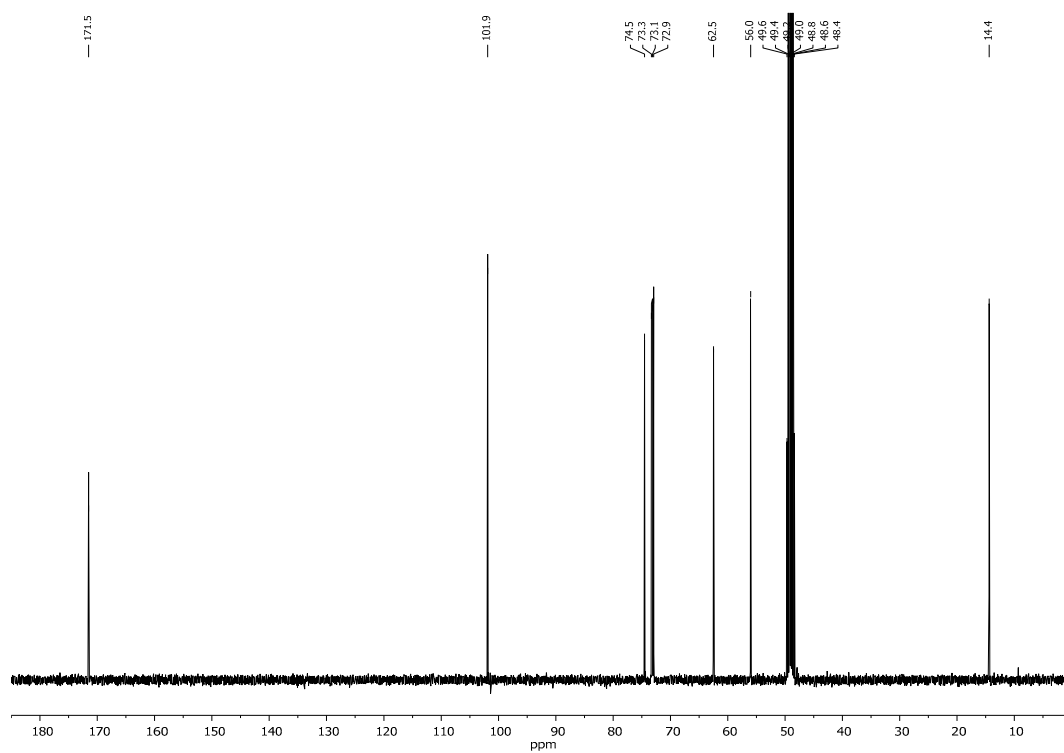
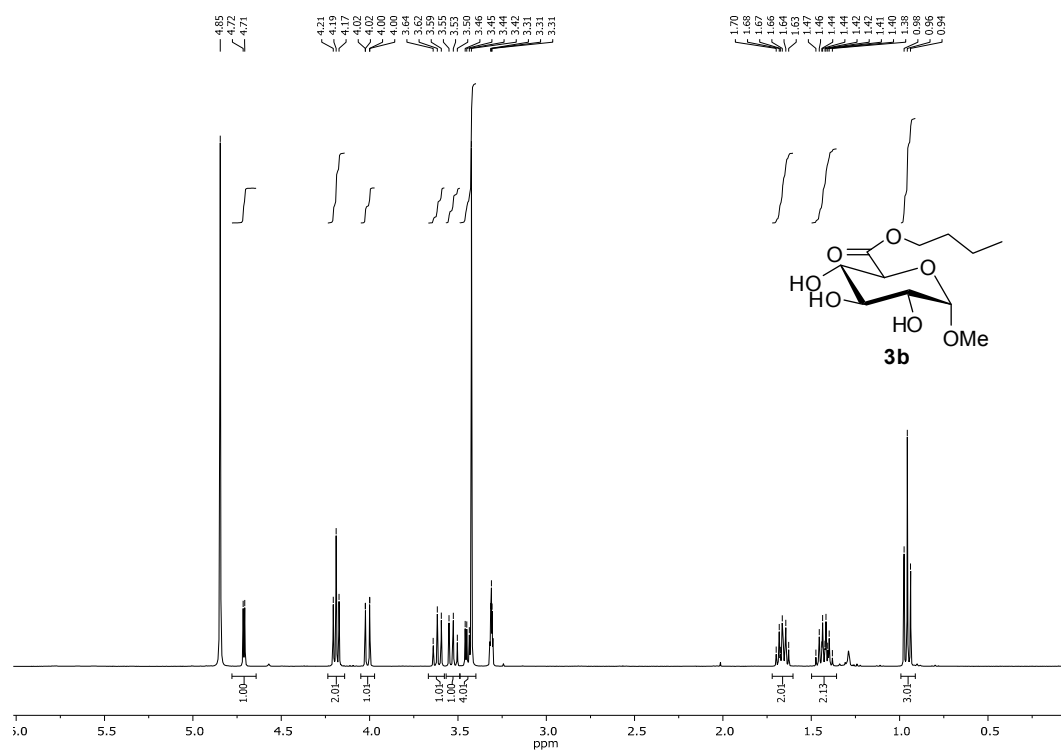
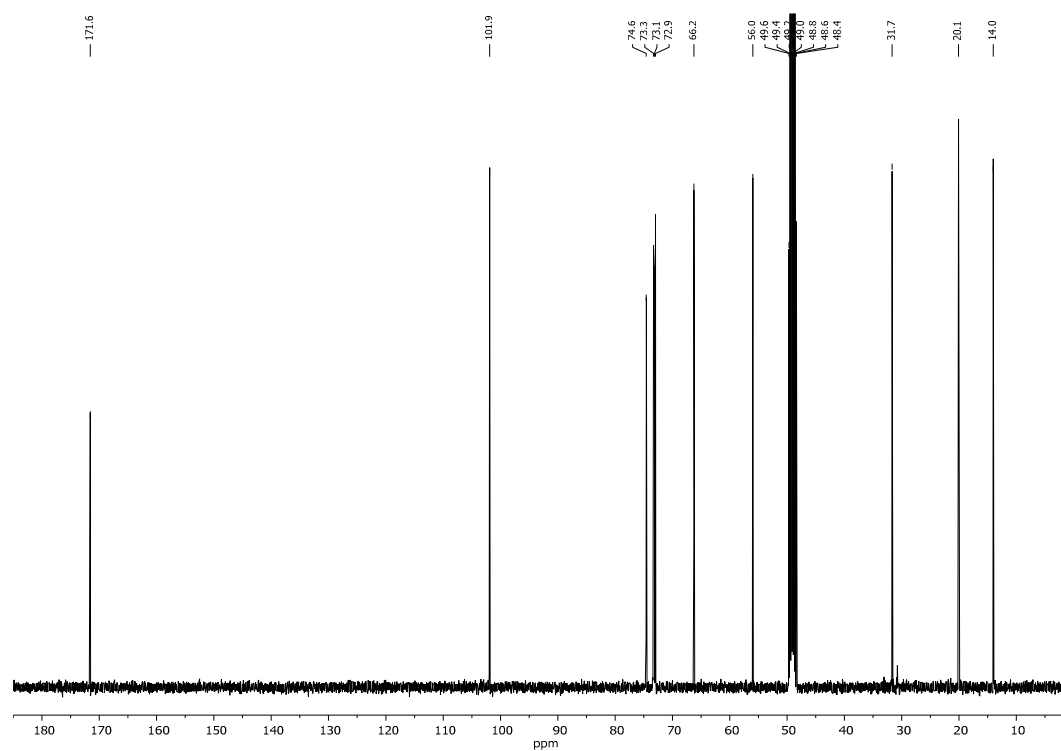
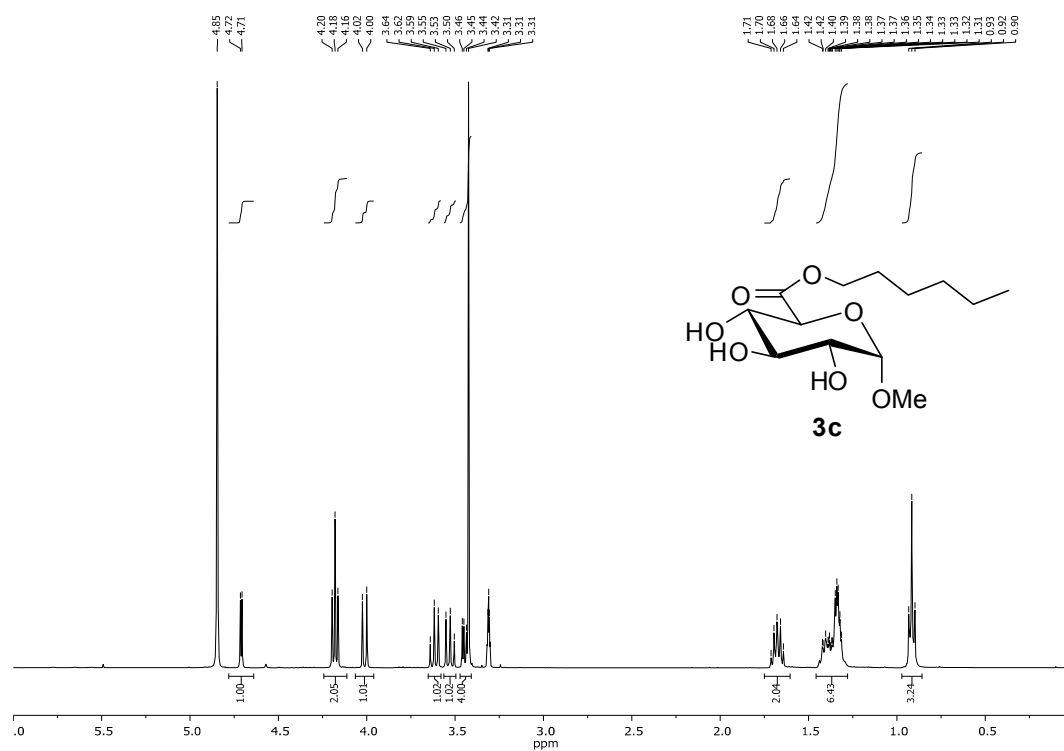
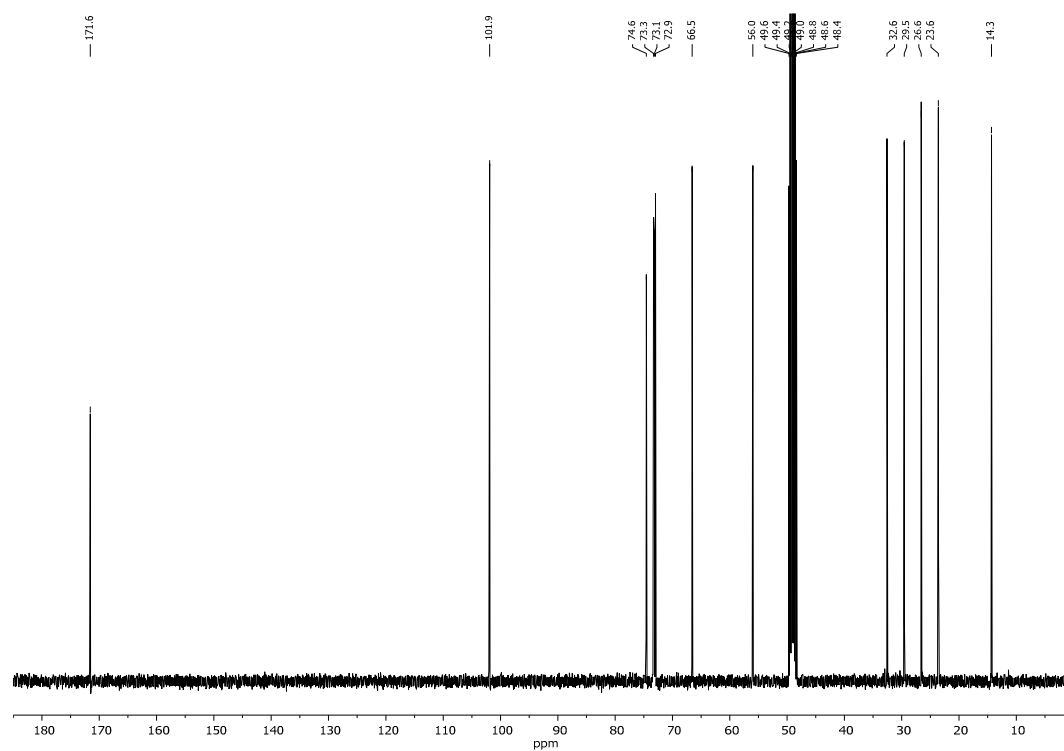
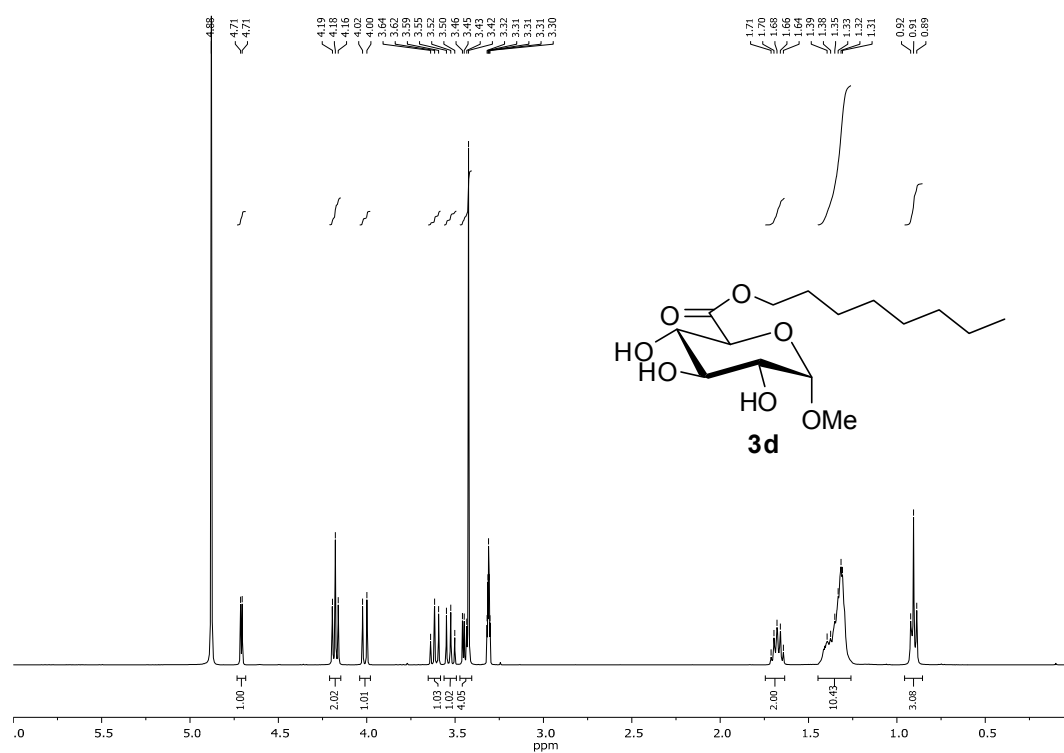
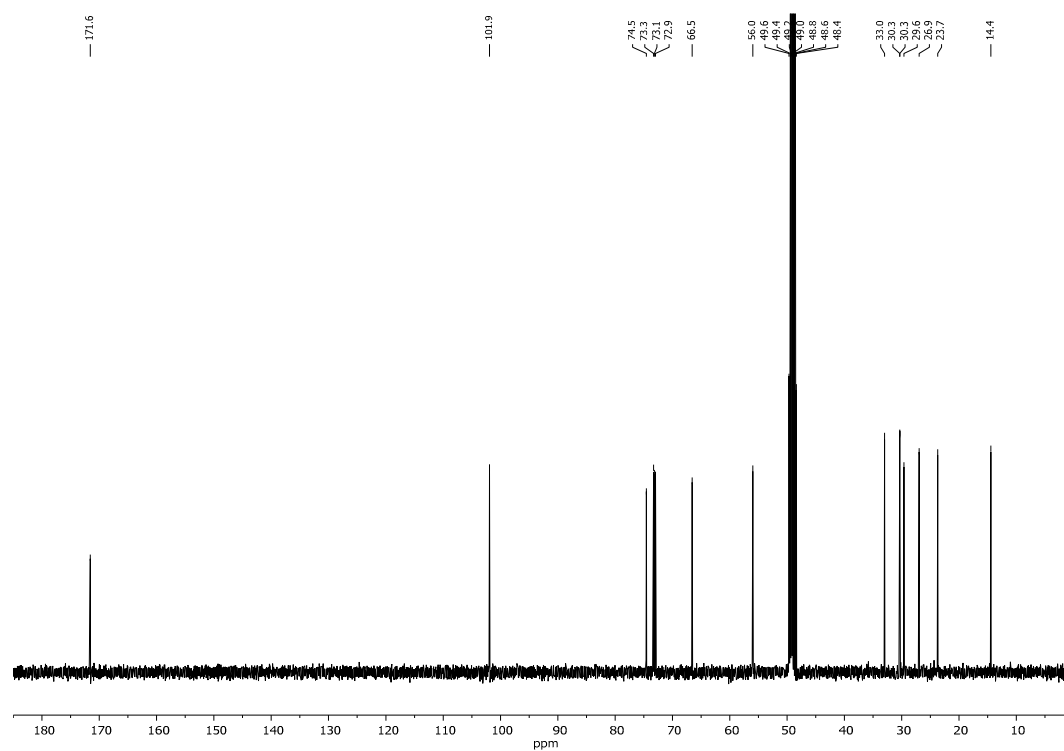


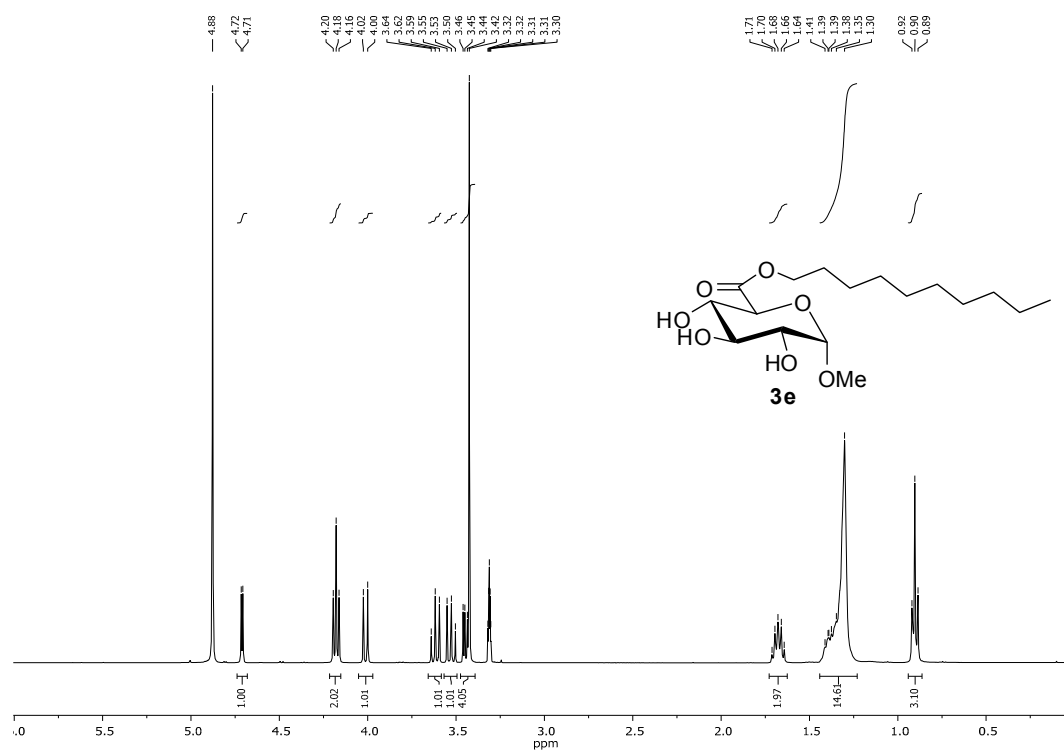
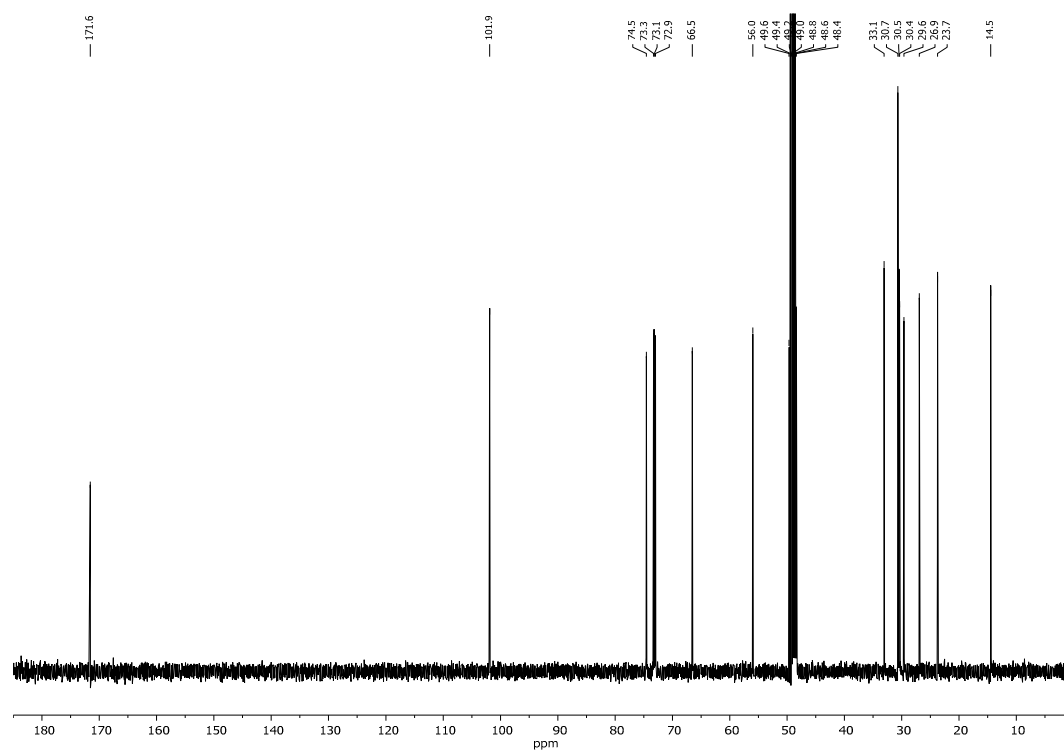
Figure S2. $^{13}\text{C-NMR}$ spectra of sodium (methyl α -D-glucopyranosid)uronate 2.

Figure S3. ¹H-NMR spectra of ethyl (methyl α-D-glucopyranosid)uronate 3a.Figure S4. ¹³C-NMR spectra of ethyl (methyl α-D-glucopyranosid)uronate 3a.

Figure S5. ¹H-NMR spectra of butyl (methyl α-D-glucopyranosid)uronate **3b**.Figure S6. ¹³C-NMR spectra of butyl (methyl α-D-glucopyranosid)uronate **3b**.

Figure S7. ¹H-NMR spectra of hexyl (methyl α -D-glucopyranosid)uronate **3c**.Figure S8. ¹³C-NMR spectra of hexyl (methyl α -D-glucopyranosid)uronate **3c**.

Figure S9. ¹H-NMR spectra of octyl (methyl α-D-glucopyranosid)uronate **3d**.Figure S10. ¹³C-NMR spectra of octyl (methyl α-D-glucopyranosid)uronate **3d**.

Figure S11. ¹H-NMR spectra of decyl (methyl α -D-glucopyranosid)uronate **3e**.Figure S12. ¹³C-NMR spectra of decyl (methyl α -D-glucopyranosid)uronate **3e**.

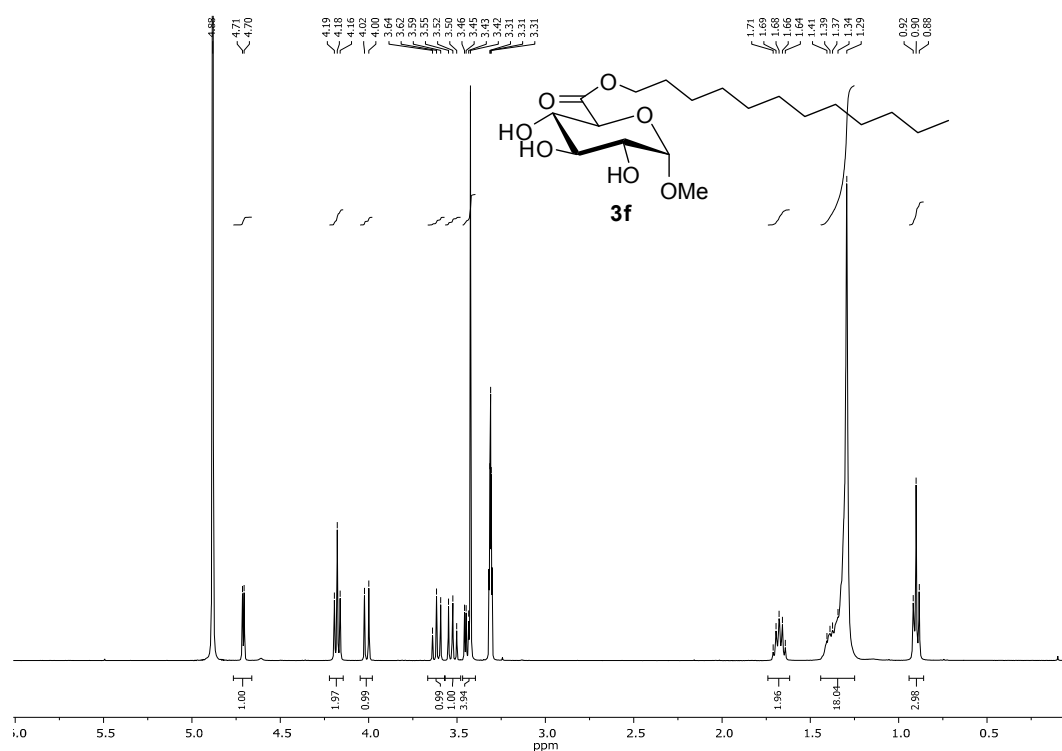


Figure S13. ¹H-NMR spectra of dodecyl (methyl α -D-glucopyranosid)uronate **3f**.

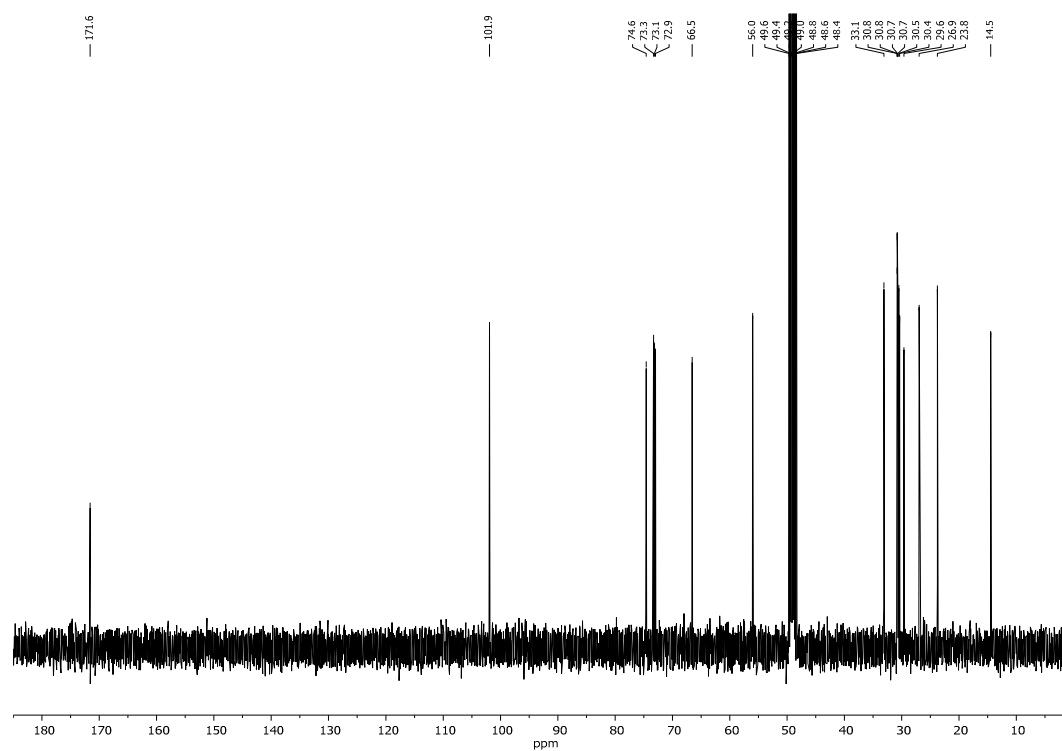


Figure S14. ¹³C-NMR spectra of dodecyl (methyl α -D-glucopyranosid)uronate **3f**.

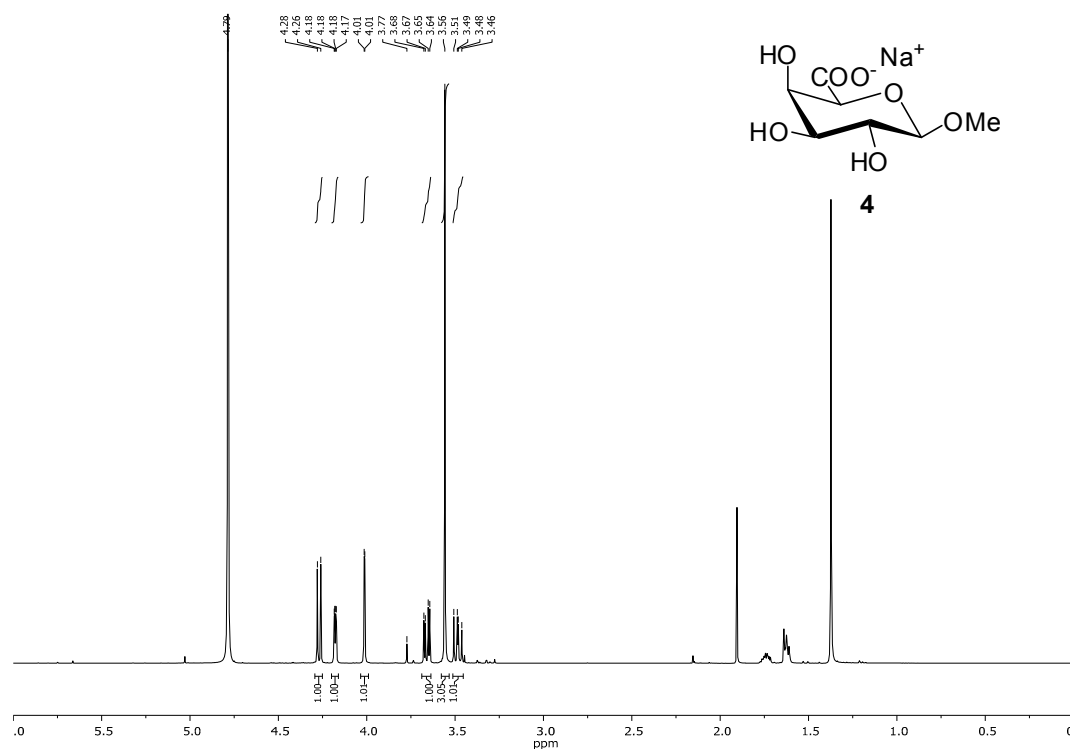


Figure S15. ¹H-NMR spectra of sodium (methyl β-D-galactopyranosid)uronate 4.

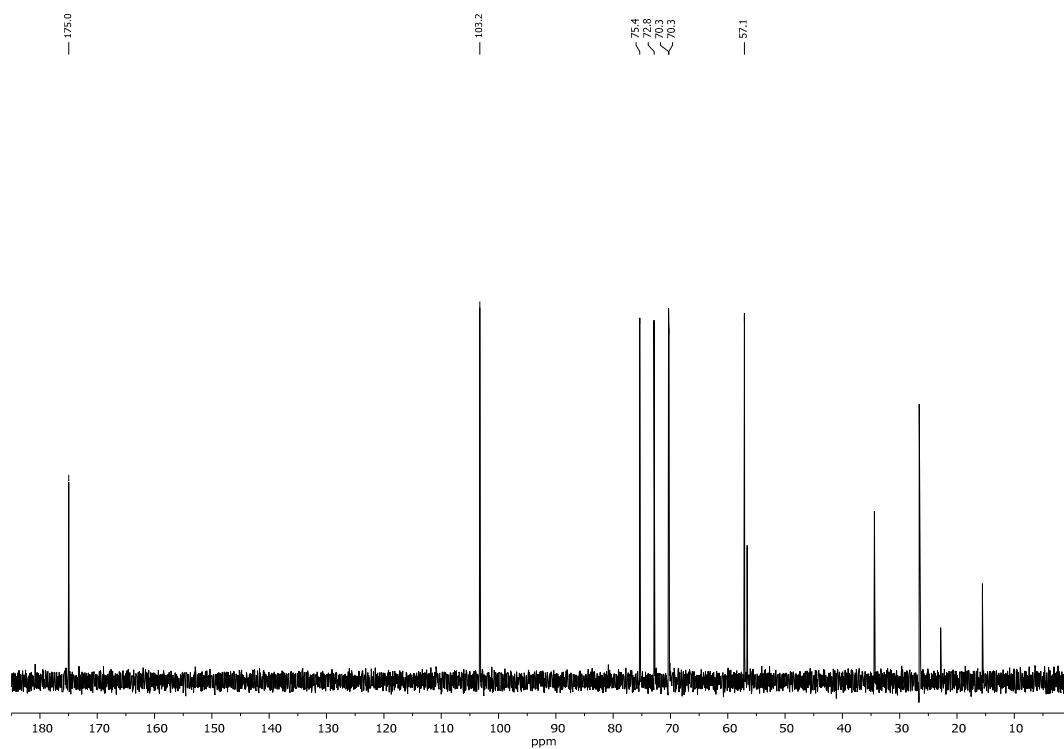
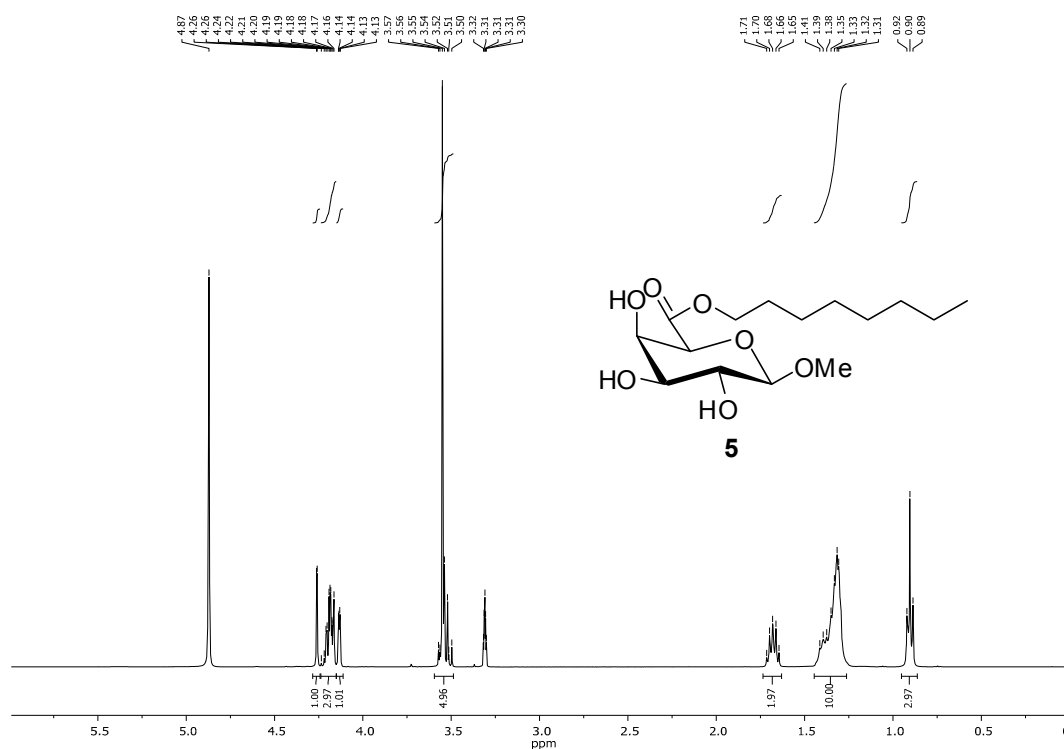
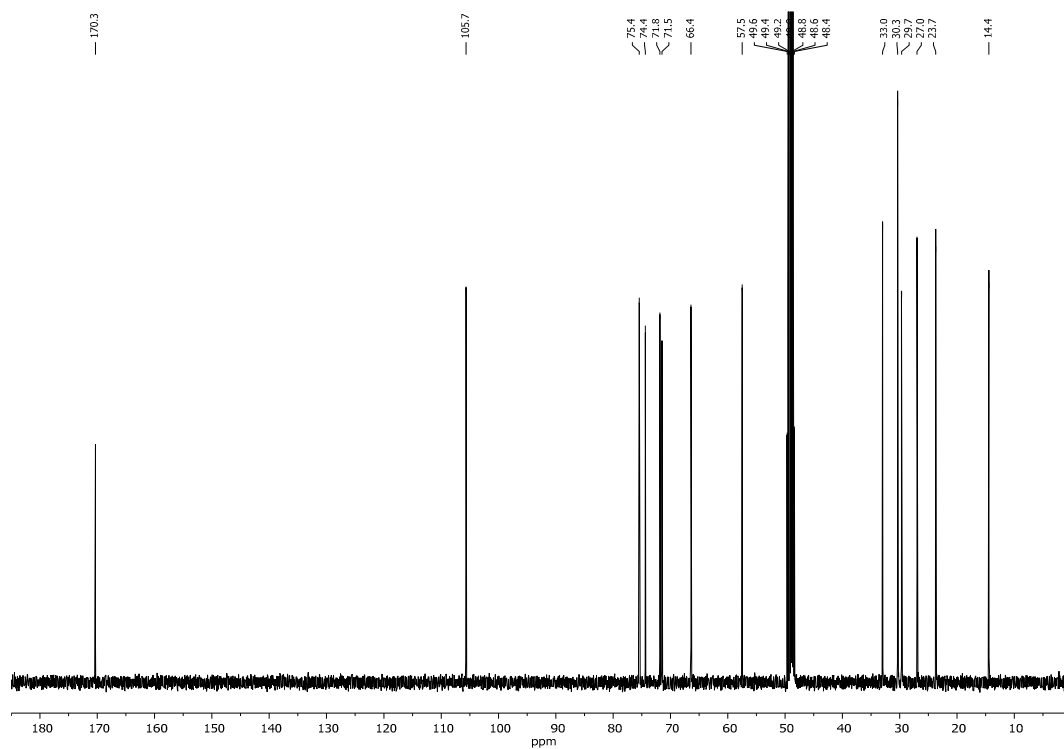
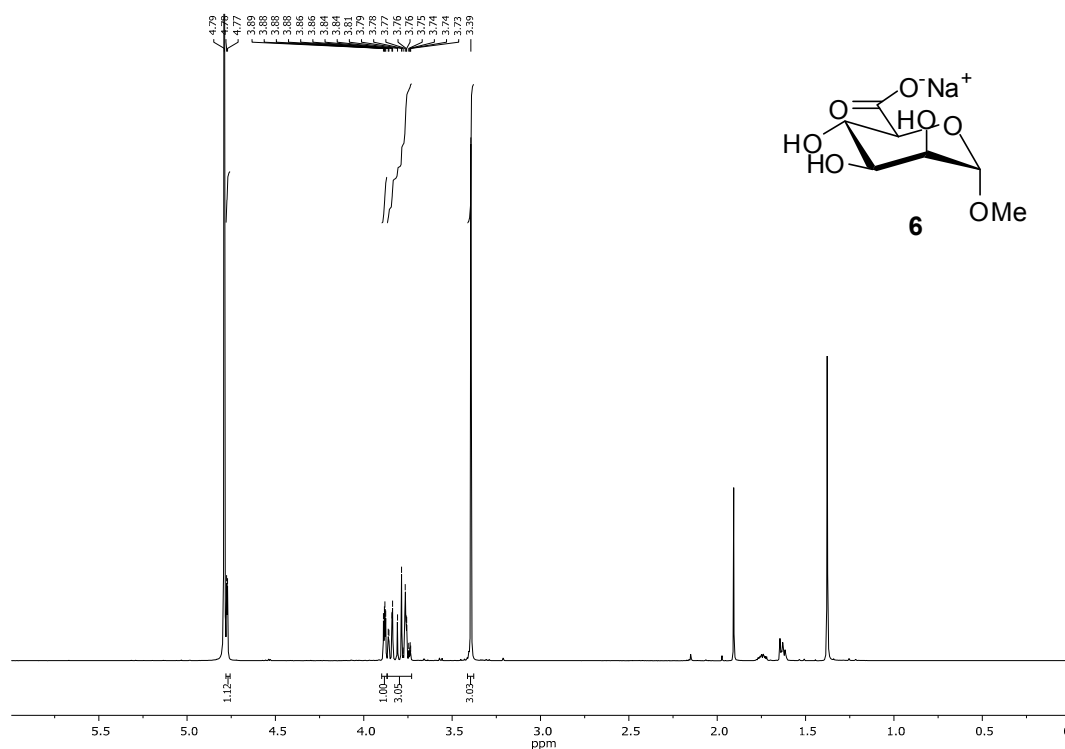
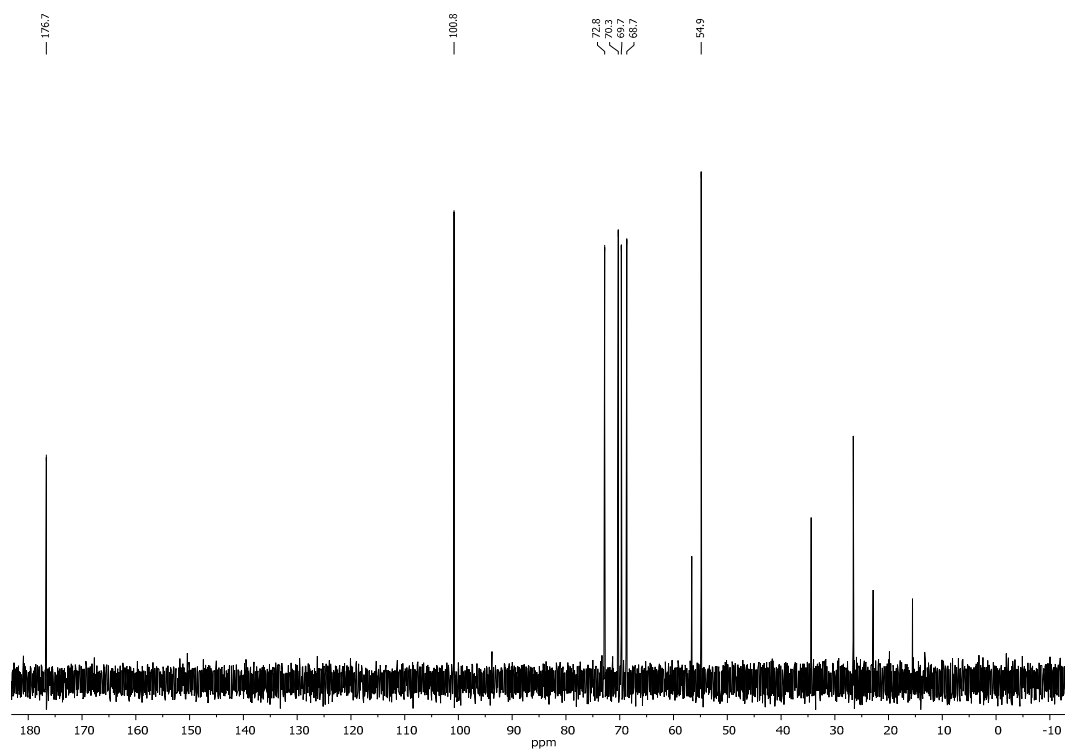
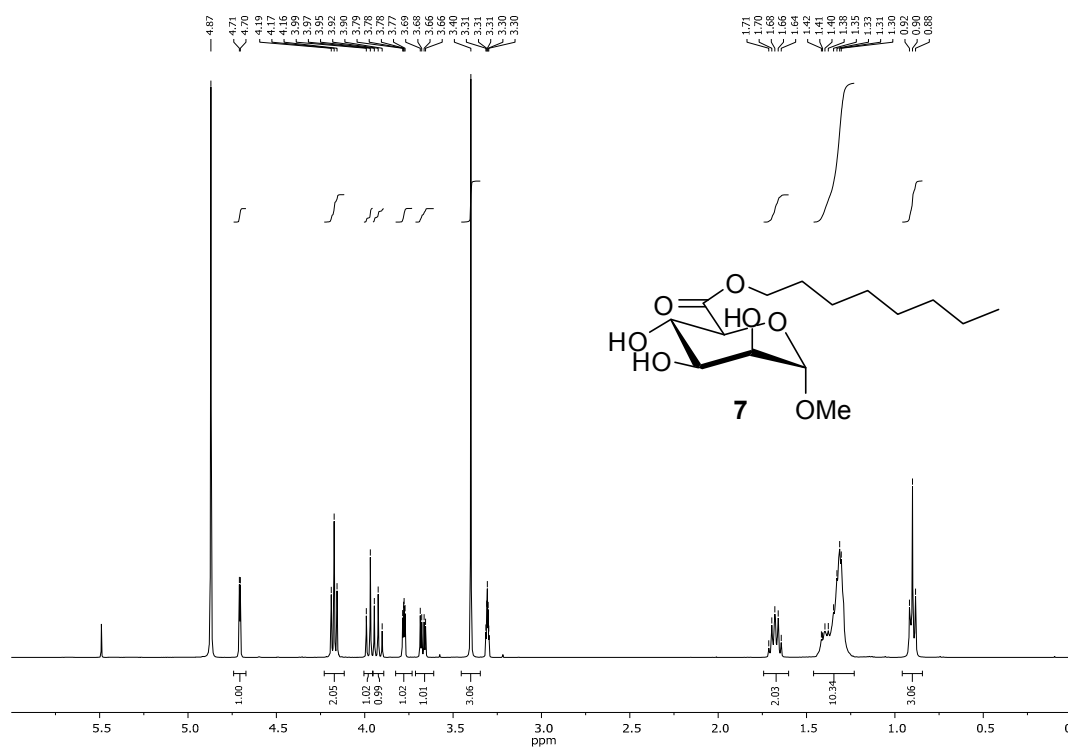
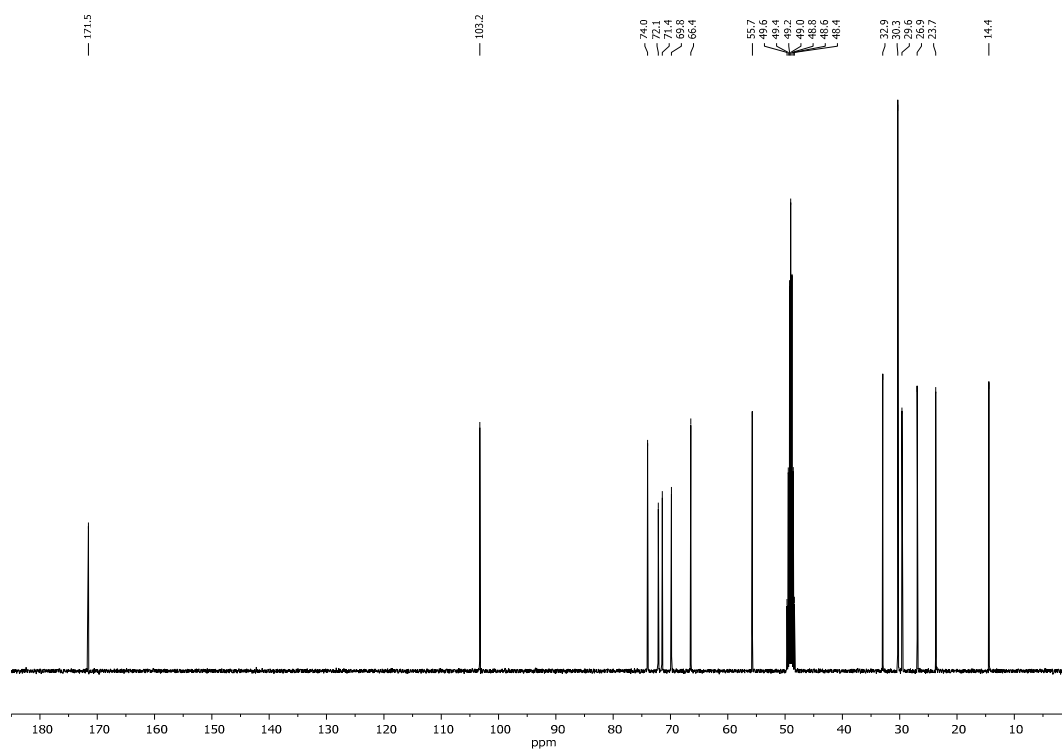


Figure S16. ¹³C-NMR spectra of sodium (methyl β-D-galactopyranosid)uronate 4.

Figure S17. ¹H-NMR spectra of octyl (methyl β-D-galactopyranosid)uronate 5.Figure S18. ¹³C-NMR spectra of octyl (methyl β-D-galactopyranosid)uronate 5.

Figure S19. ^1H -NMR spectra of sodium (methyl α -D-mannopyranosid)uronate 6.Figure S20. ^{13}C -NMR spectra of sodium (methyl α -D-mannopyranosid)uronate 6.

Figure S21. ¹H-NMR spectra of octyl (methyl α -D-mannopyranosid)uronate 7.Figure S22. ¹³C-NMR spectra of octyl (methyl α -D-mannopyranosid)uronate 7.