

Supporting Information

Nitroxide-mediated Copolymerization of MMA with Styrene – Sequence

Analysis of Oligomers by Using Mass Spectrometry

*Inga C. Wienhöfer, Heinrich Luftmann and Armido Studer**

Institute of Organic Chemistry, Department of Chemistry, University of Muenster,
Corrensstraße 40, 48149 Münster, Germany.

1. Mass spectra

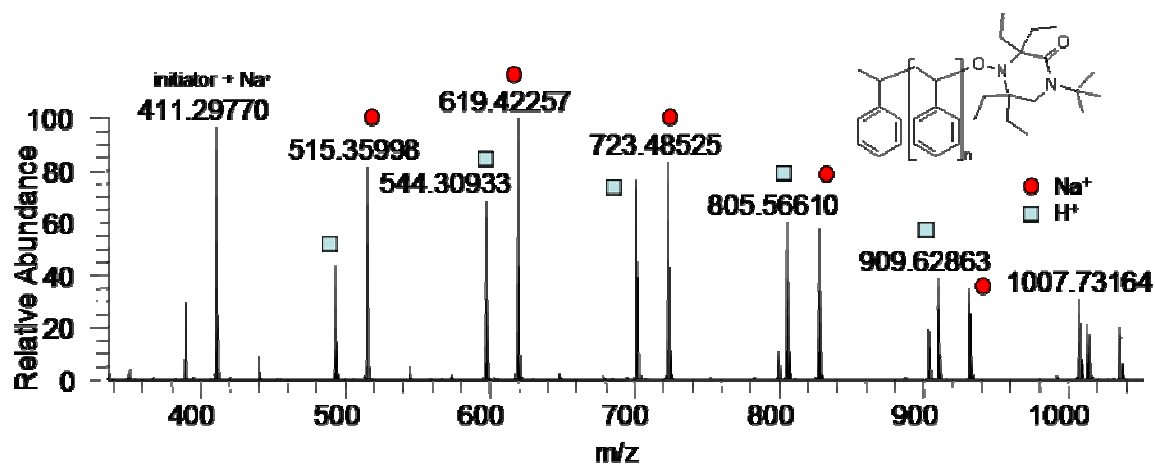


Figure 1. ESI spectrum: H⁺ and Na⁺ addition series of styrene oligomers.

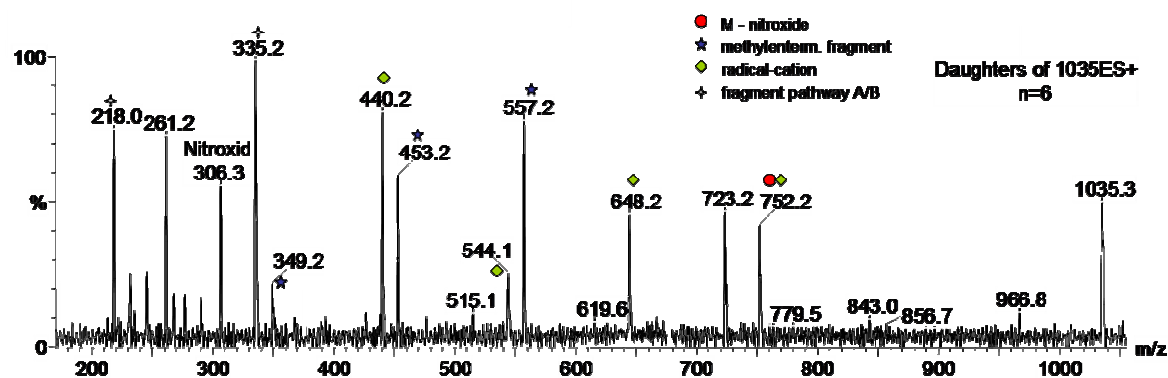


Figure 2. MS²-Quattro spectra, styrene oligomer with $n = 6$ ($m/z = 1035$).

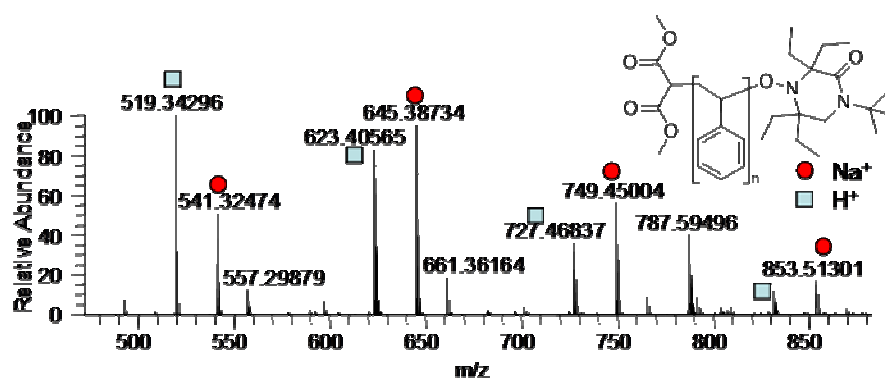


Figure 3. ESI spectrum: H^+ - and Na^+ -addition series of styrene oligomers regulated by initiator 3.

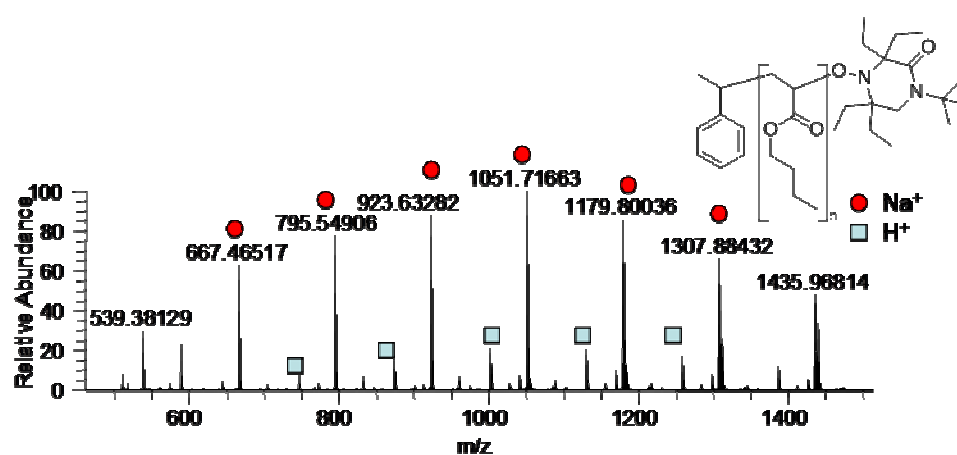


Figure 4. ESI spectrum: H^+ - and Na^+ -addition series of the n -butyl acrylate oligomers.

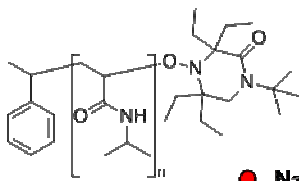


Figure 5. ESI spectrum: H^+ - and Na^+ -addition series of NIPAM oligomers.



Figure 6. ESI spectrum: CID-fragmentation of cooligomer with $n = 6$ ($m/z = 1094$, H^+ -addition).

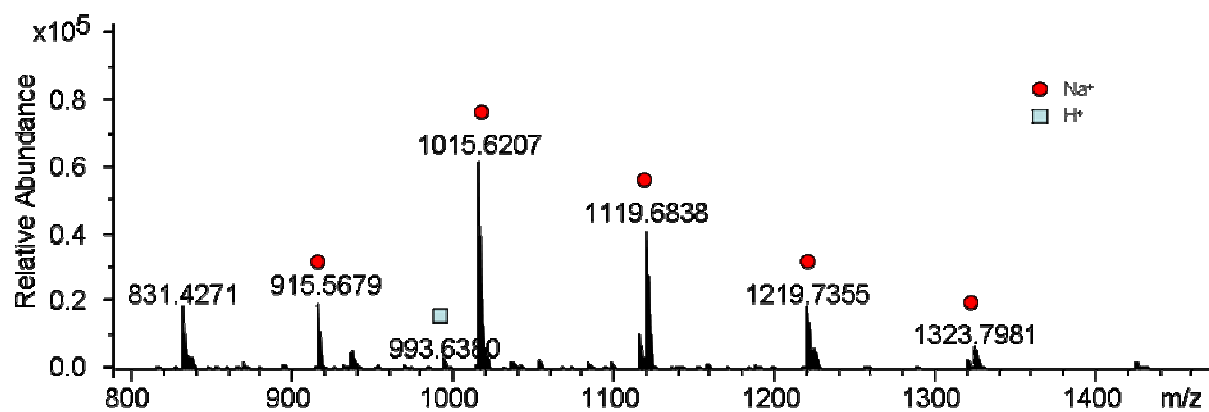


Figure 7. ESI spectra: Series of Na^+ -addition to cooligomers.

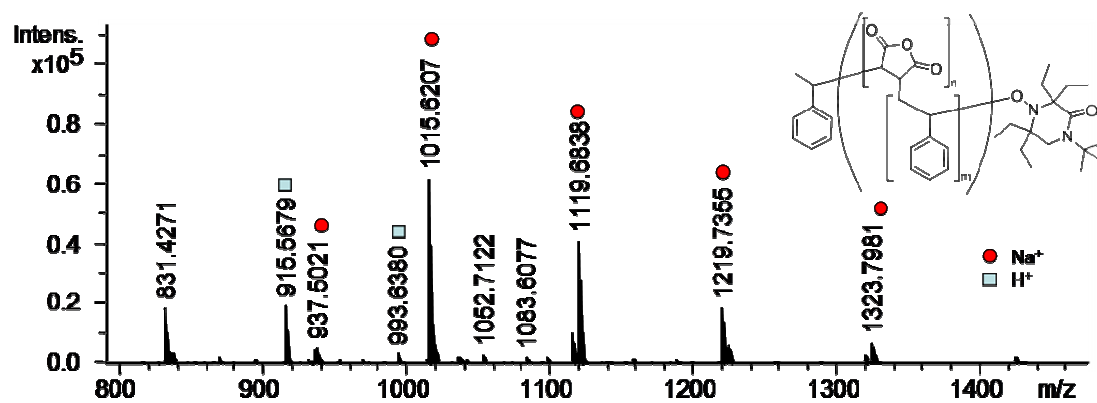


Figure 8 ESI spectrum: H^+ - and Na^+ -addition series of alternating cooligomers.

2. SEC Curve

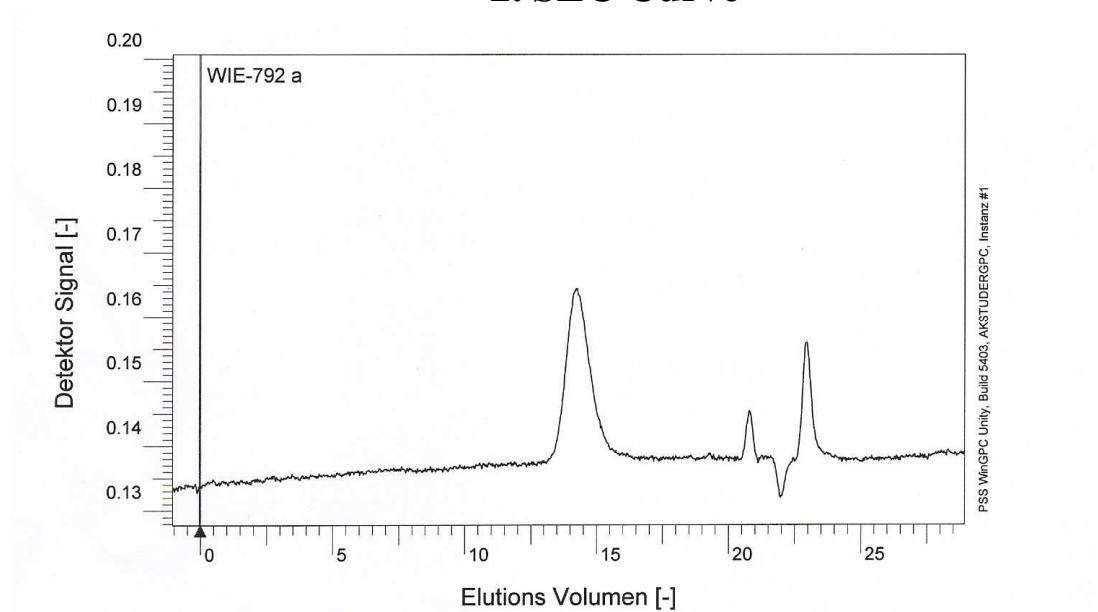


Figure 9. SEC curve resulting from chain extension experiment (see Entry 1, Table 2):