

The Structure of Gas-Phase $[\text{Al},n\text{H}_2\text{O}]^+$: Hydrated Monovalent Aluminium

$\text{Al}^+(\text{H}_2\text{O})_n$ or Hydride-Hydroxide $\text{HAlOH}^+(\text{H}_2\text{O})_{n-1}$?

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Electronic Supplementary Information

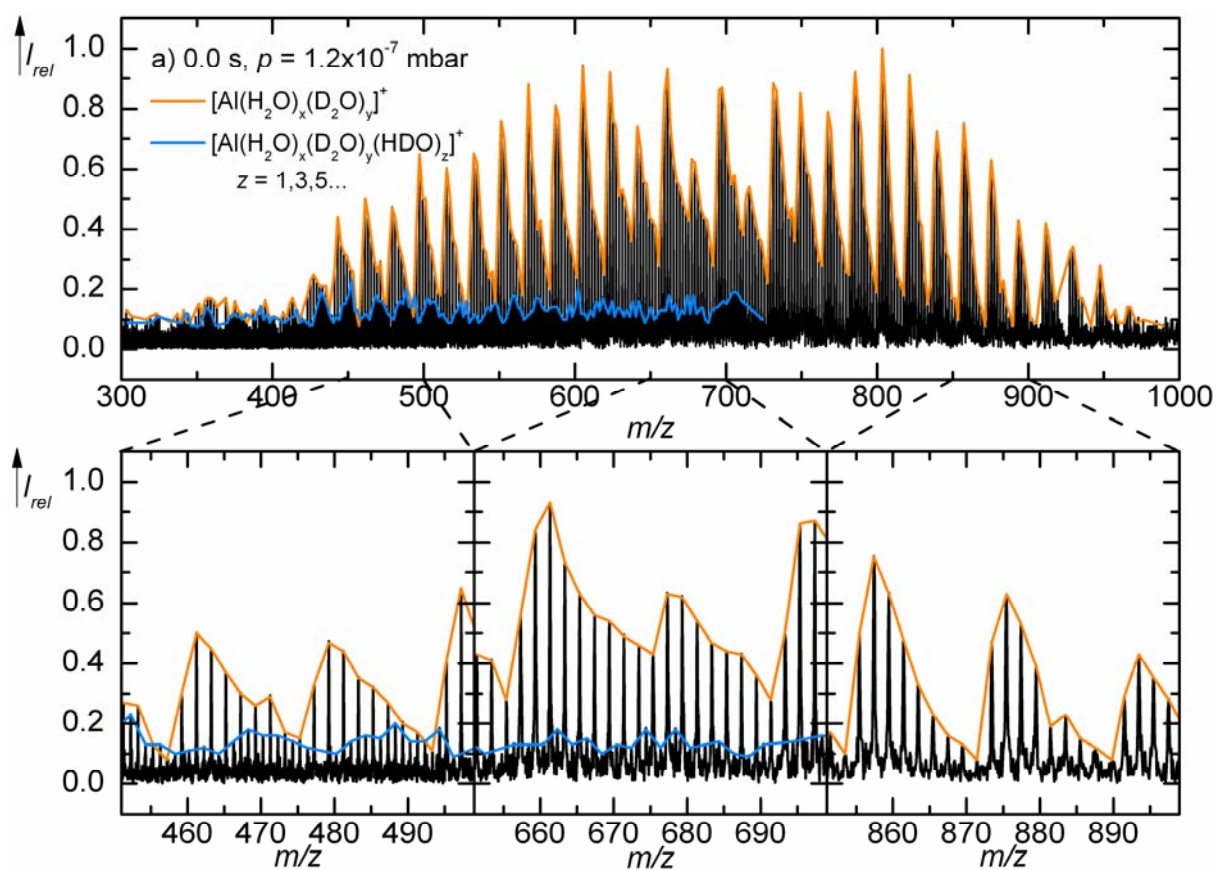


Figure S1. Mass spectra of the reaction of $\text{Al}(\text{H}_2\text{O})_n^+$ with deuterium oxide at a calibrated pressure of 1.2×10^{-7} mbar after 0.0 s.

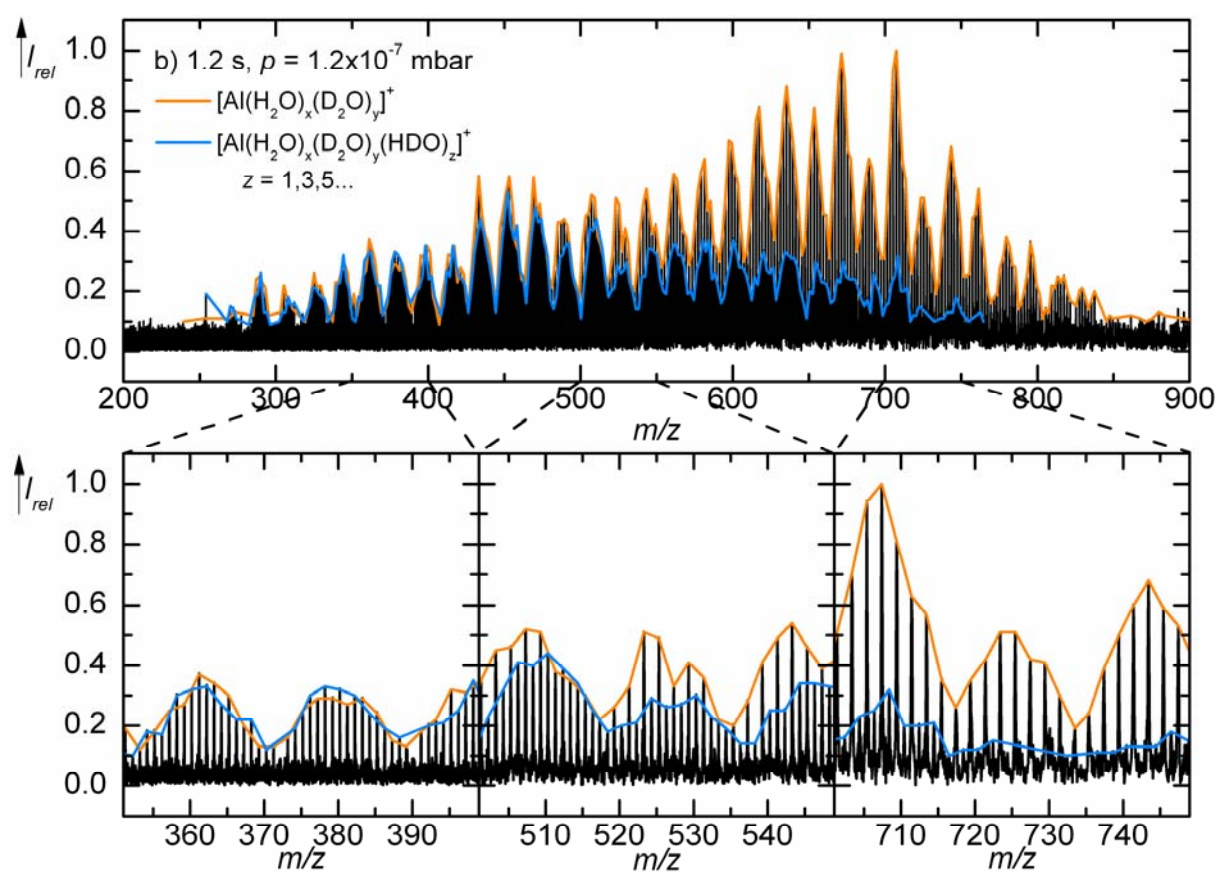


Figure S2. Mass spectra of the reaction of $\text{Al}(\text{H}_2\text{O})_n^+$ with deuterium oxide at a calibrated pressure of 1.2×10^{-7} mbar after 1.2 s.

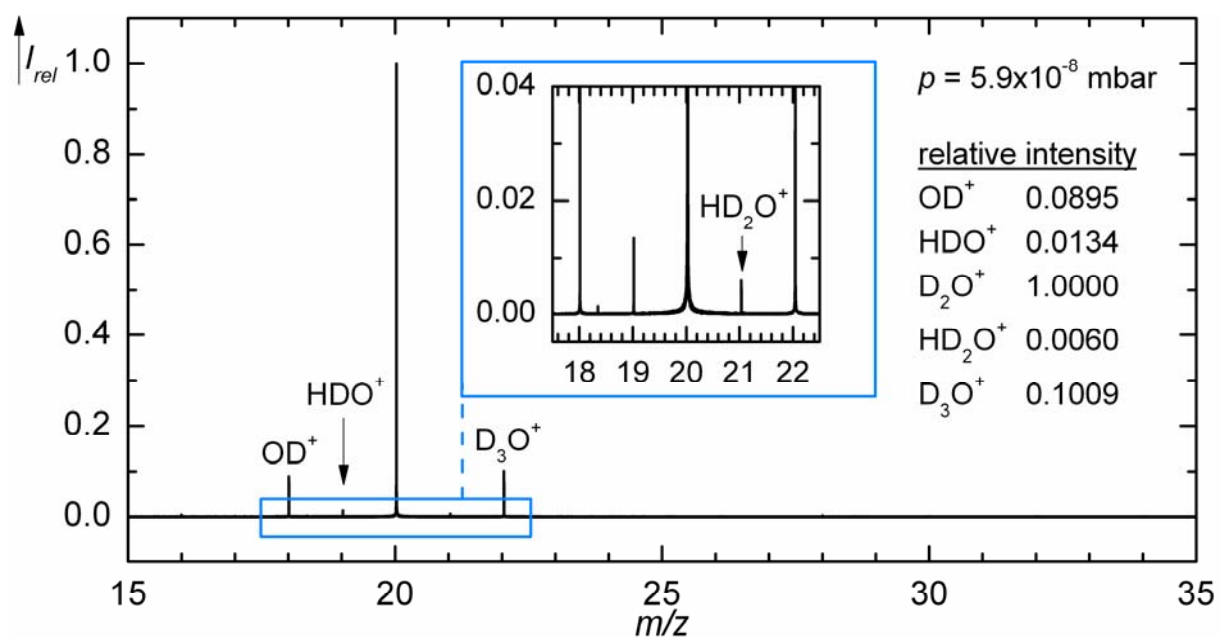


Figure S3. EI mass spectrum of the reaction gas deuterium oxide at a calibrated pressure of 5.9×10^{-8} mbar. The spectrum was taken directly after the described experiments.

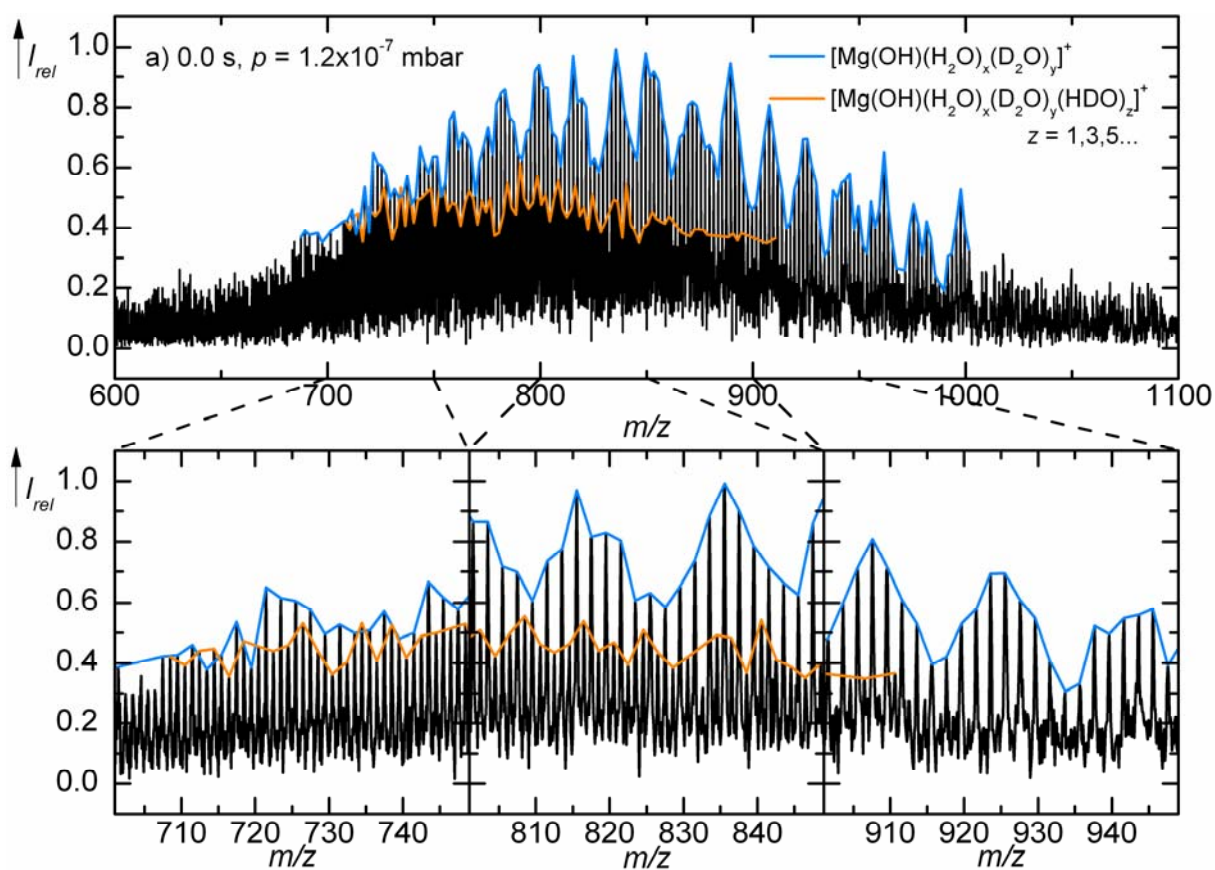


Figure S4. Mass spectra of the reaction of $\text{Mg}(\text{OH})(\text{H}_2\text{O})_n^+$ with deuterium oxide at a calibrated pressure of 1.2×10^{-7} mbar after 0.0 s.

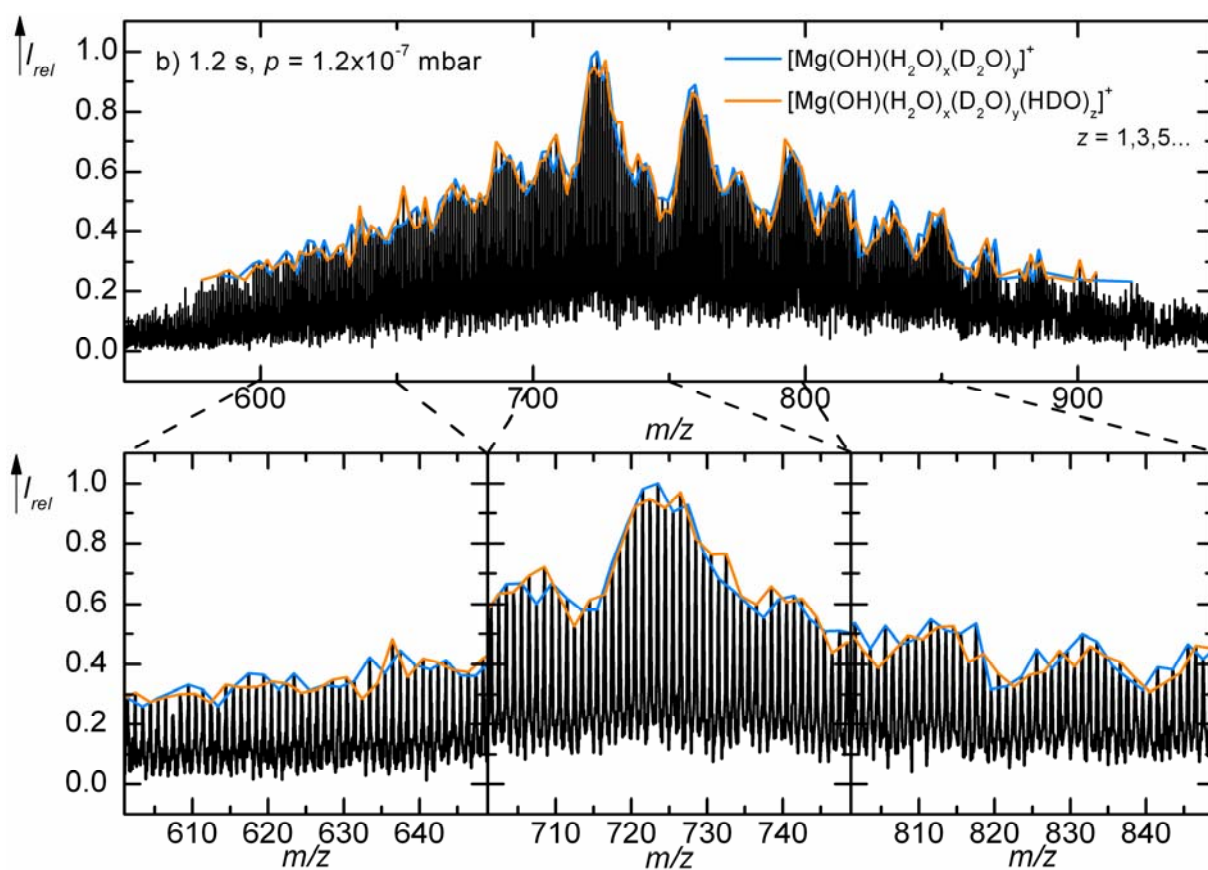


Figure S5. Mass spectra of the reaction of $\text{Mg}(\text{OH})(\text{H}_2\text{O})_n^+$ with deuterium oxide at a calibrated pressure of 1.2×10^{-7} mbar after 1.2 s.