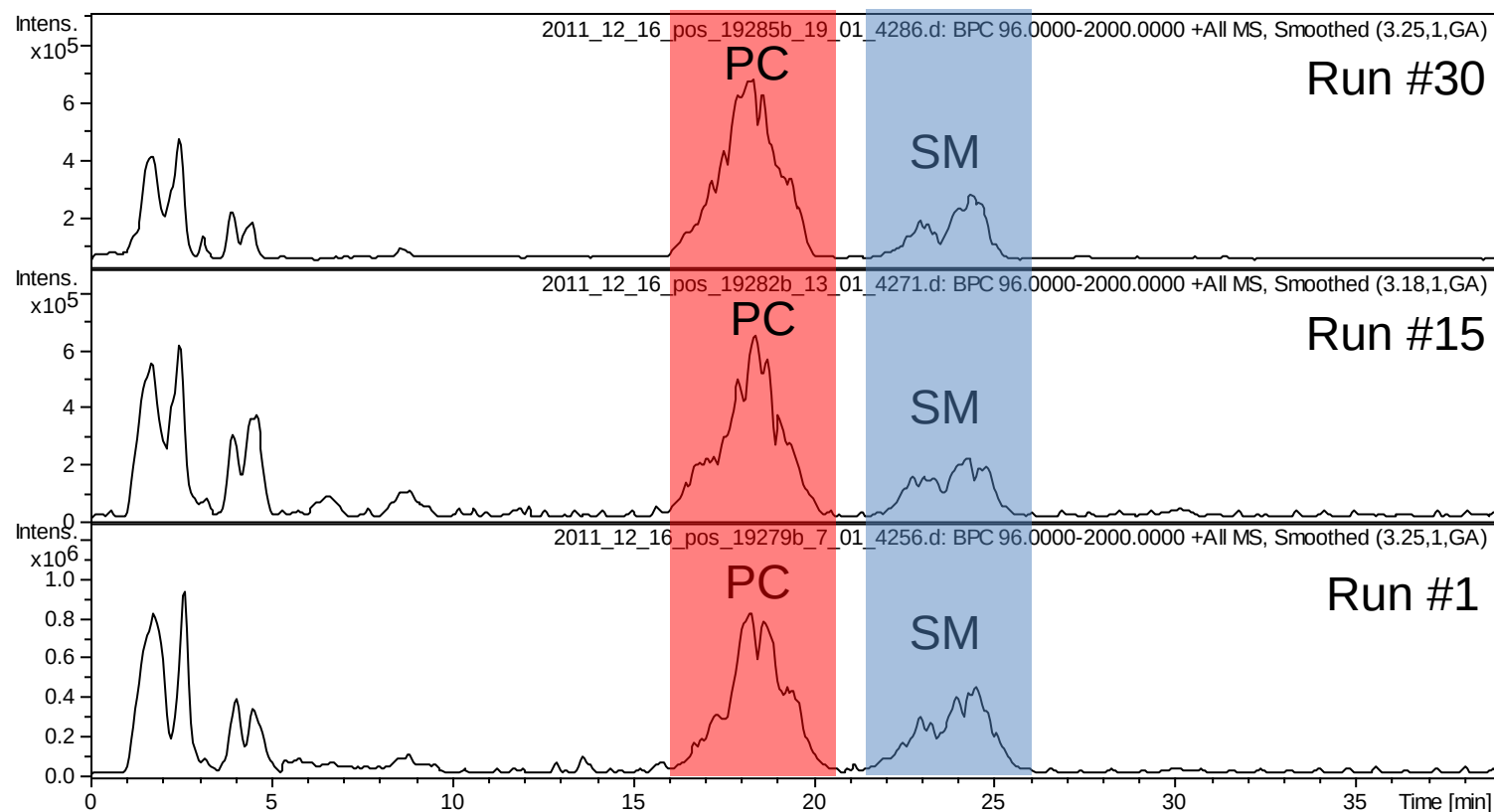
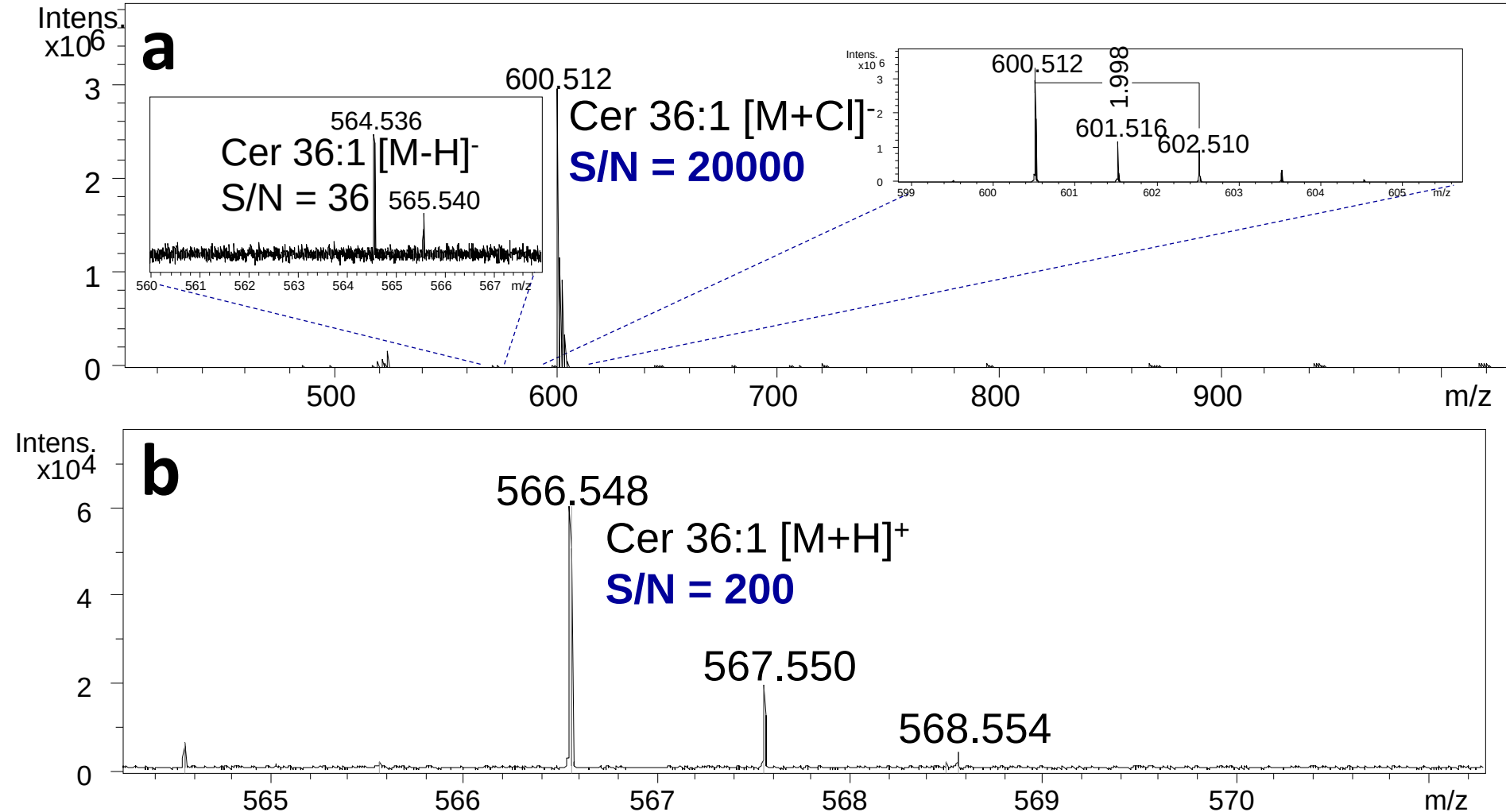




Supplementary Fig. 1 NP-LC-MS analyses of mouse airway epithelium samples. Base peak chromatograms of analysis 1, 15 and 30 of one acquisition batch consisting of 30 samples.



Supplementary Fig. 2 Sensitive quantitation of ceramides in the negative ion mode. a) Averaged negative ion mode mass spectrum obtained from the elution time range of Cer 36:1 using NP-LC-MS. The insert shows the expanded m/z region of the isotopic pattern of $[M+Cl]^-$ at 602.512 and $[M-H]^-$ at 564.542. Both isotopic distributions of $[M-H]^-$ and $[M+Cl]^-$ fit very well to the theoretical expected values. The mass difference to the second isotopic peak were in accordance to ^{37}Cl signal 1.998u (theoretical: 1.997u) for the $[M+Cl]^-$. b) Positive ion mode mass spectrum obtained from the NP-LC-MS run of Cer 36:1. The mass spectra in the ceramide elution range were averaged. (S/N: signal-to-noise ratio)