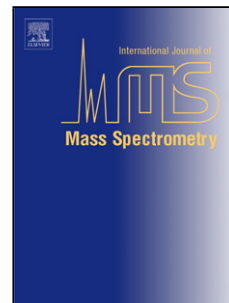


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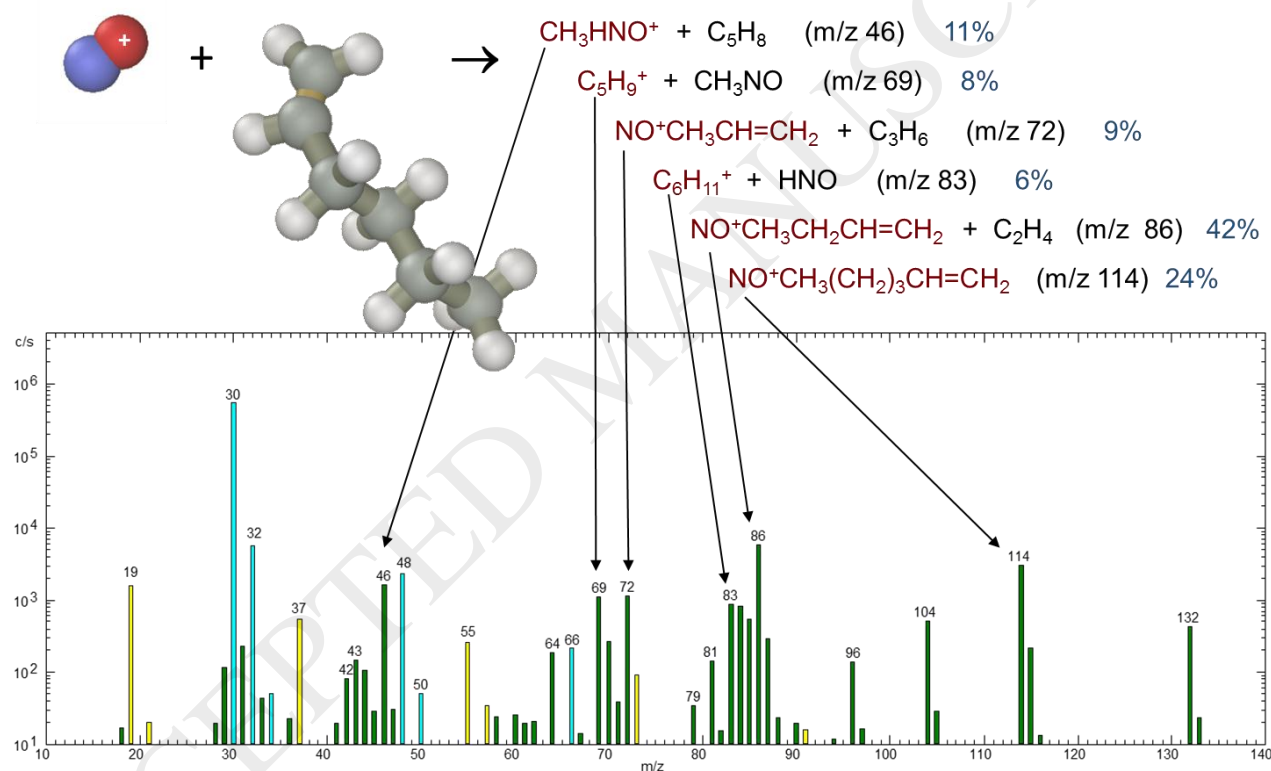
## A detailed study of the ion chemistry of alkenes focusing on heptenes aimed at their SIFT-MS quantification

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### Graphical abstract



### Highlights

- Rate coefficients and product ion branching ratios were determined for the reactions of  $\text{H}_3\text{O}^+$ ,  $\text{NO}^+$  and  $\text{O}_2^+$  with several alkenes
- The compounds included 1-hexene, 1-heptene, *trans*-2-heptene, 3-heptene (*cis* and *trans*), 1-octene, 1-nonene, 1-decene
- Characteristic product ions were chosen and the concentration calculation equation coefficients were determined.

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