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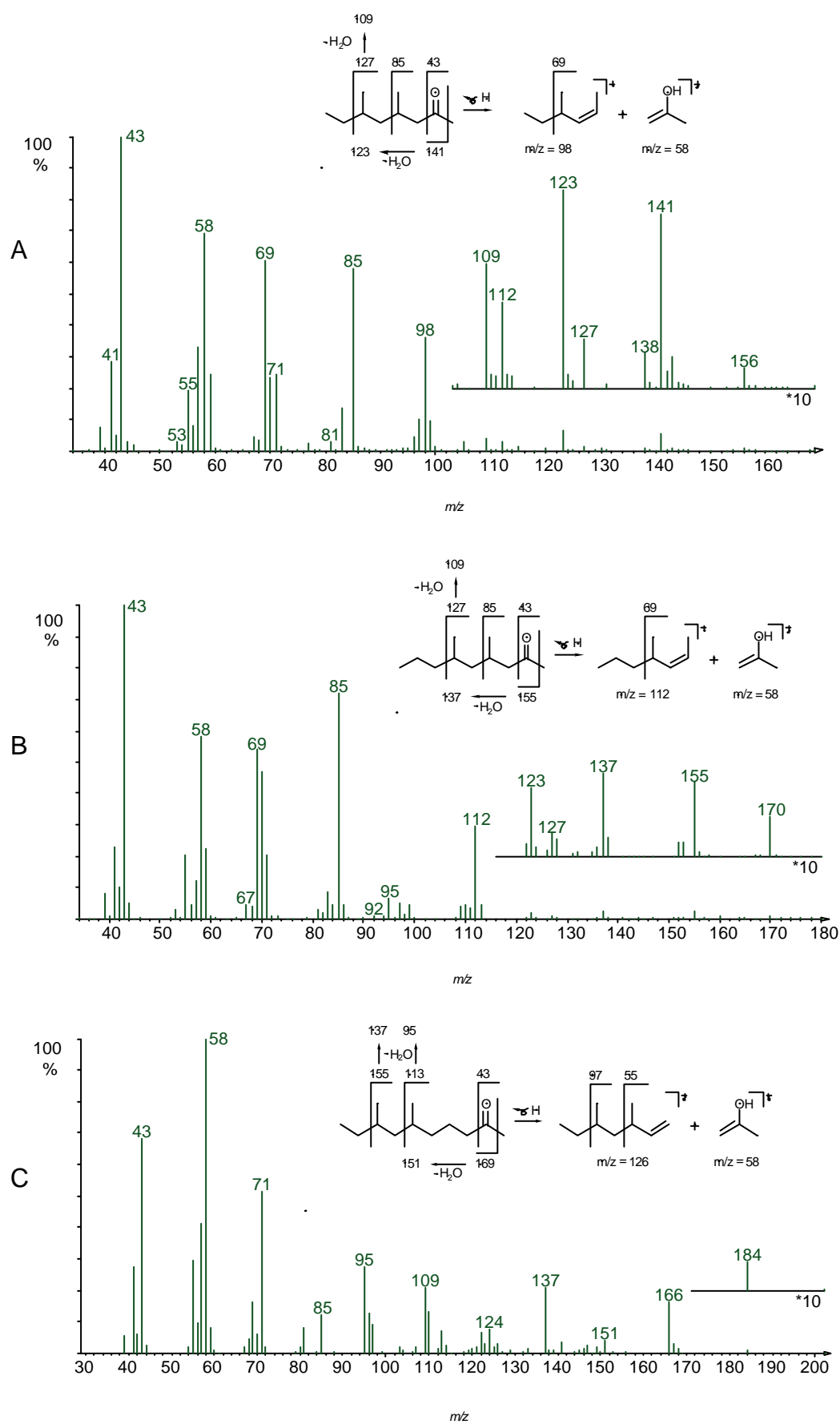
*ChemBioChem* **2004**

## Supporting Information

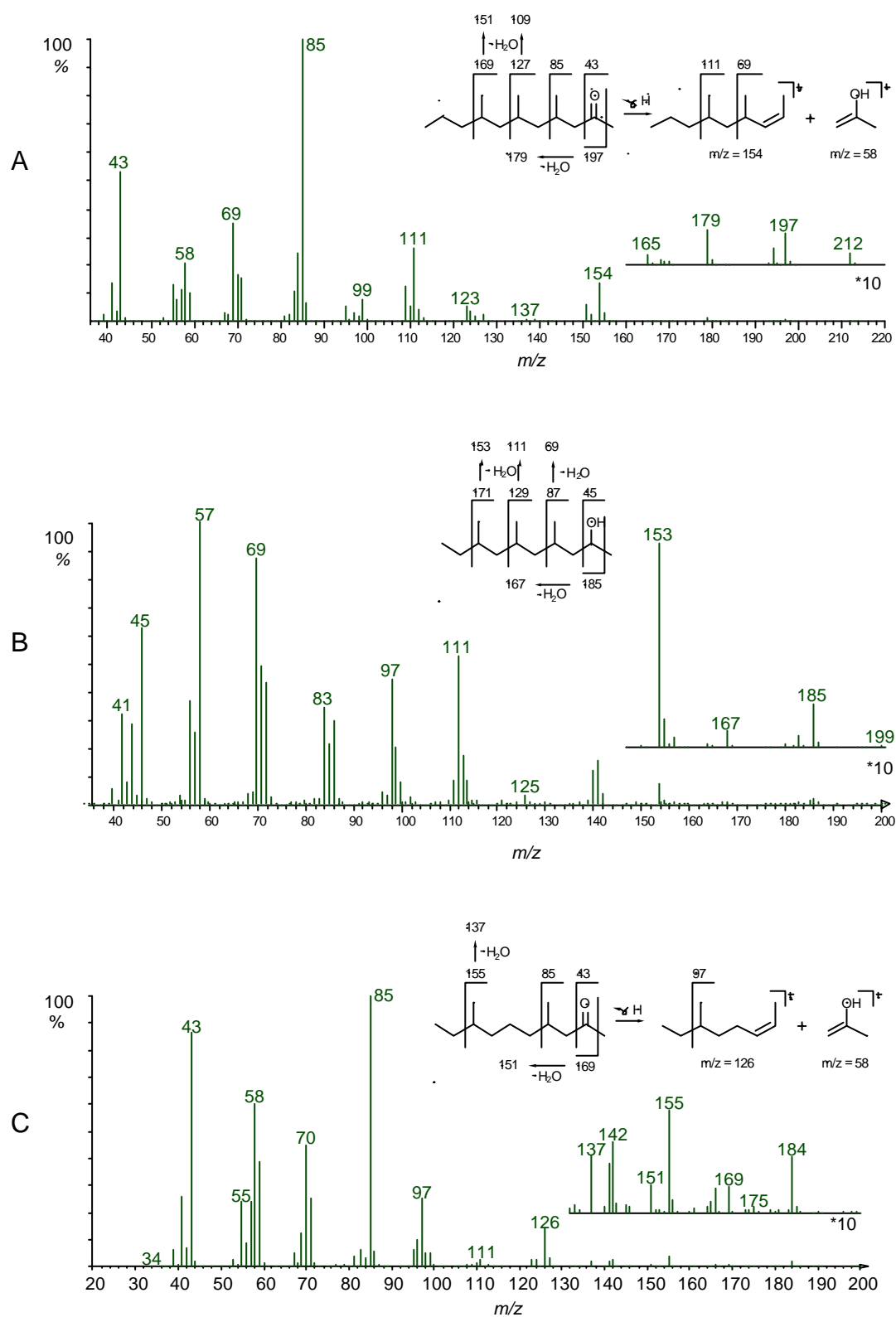
for

### Identification and Biosynthesis of an Aggregation Pheromone of the Storage Mite *Chortoglyphus arcuatus*

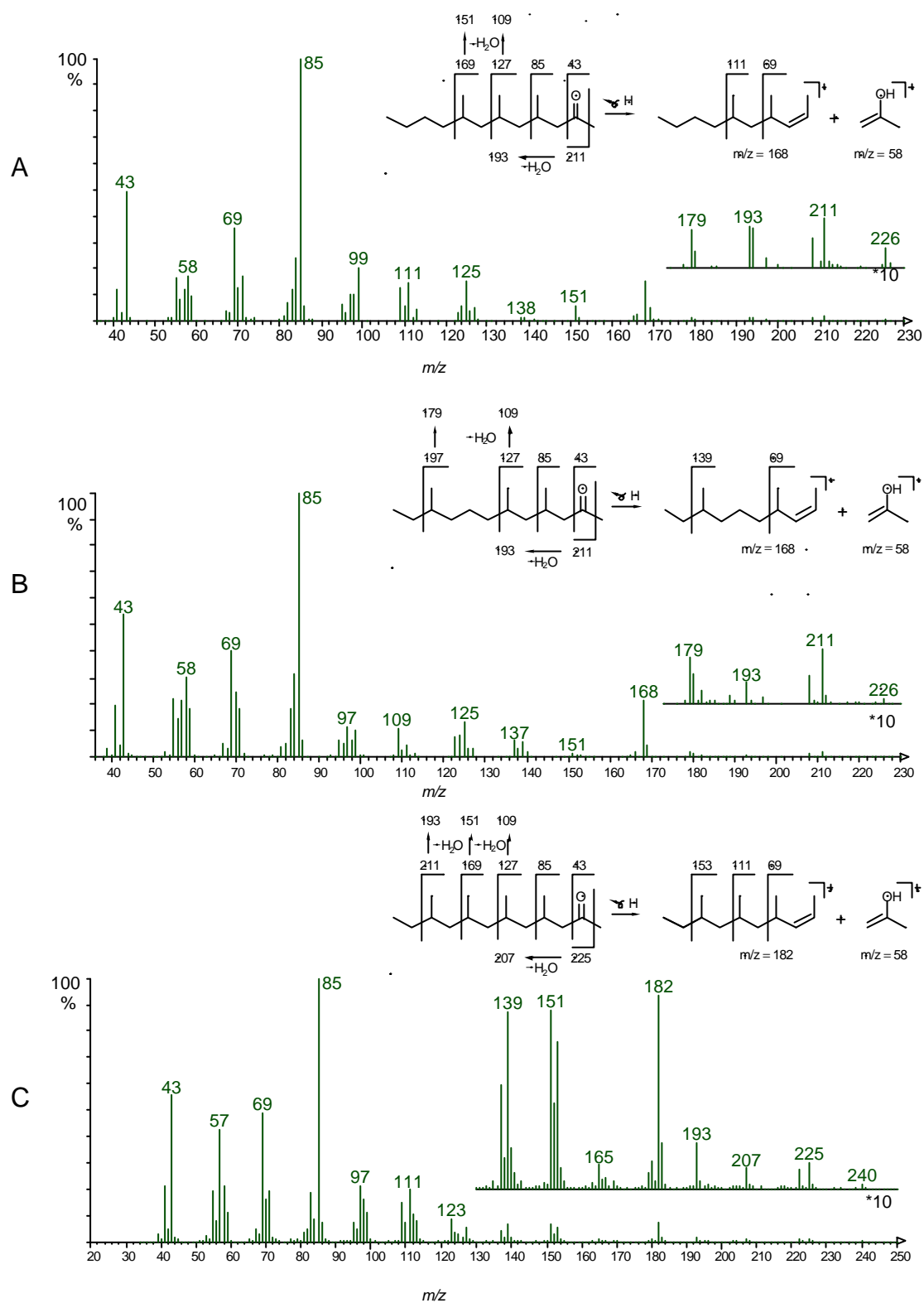
Stefan Schulz,\* Jens Fuhlendorff, Johannes L. M. Steidle, Jana Collatz,  
and Jörg-Thomas Franz



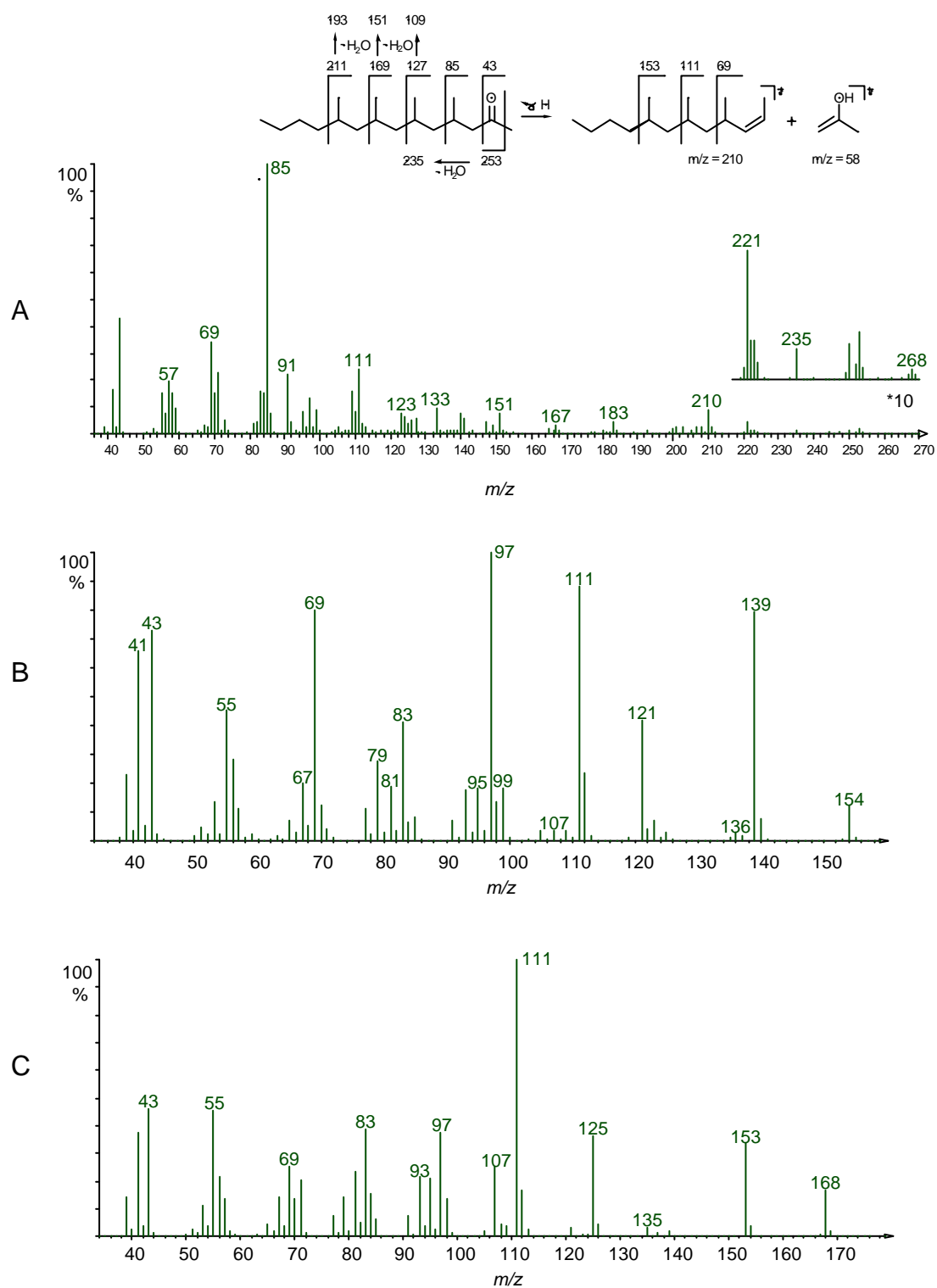
**Figure S1:** Mass spectra of A) 4,6-dimethyloctan-2-one (**19**); B) 4,6-dimethylnonan-2-one (**20**); and C) 6,8-dimethyldecan-2-one (**24**).



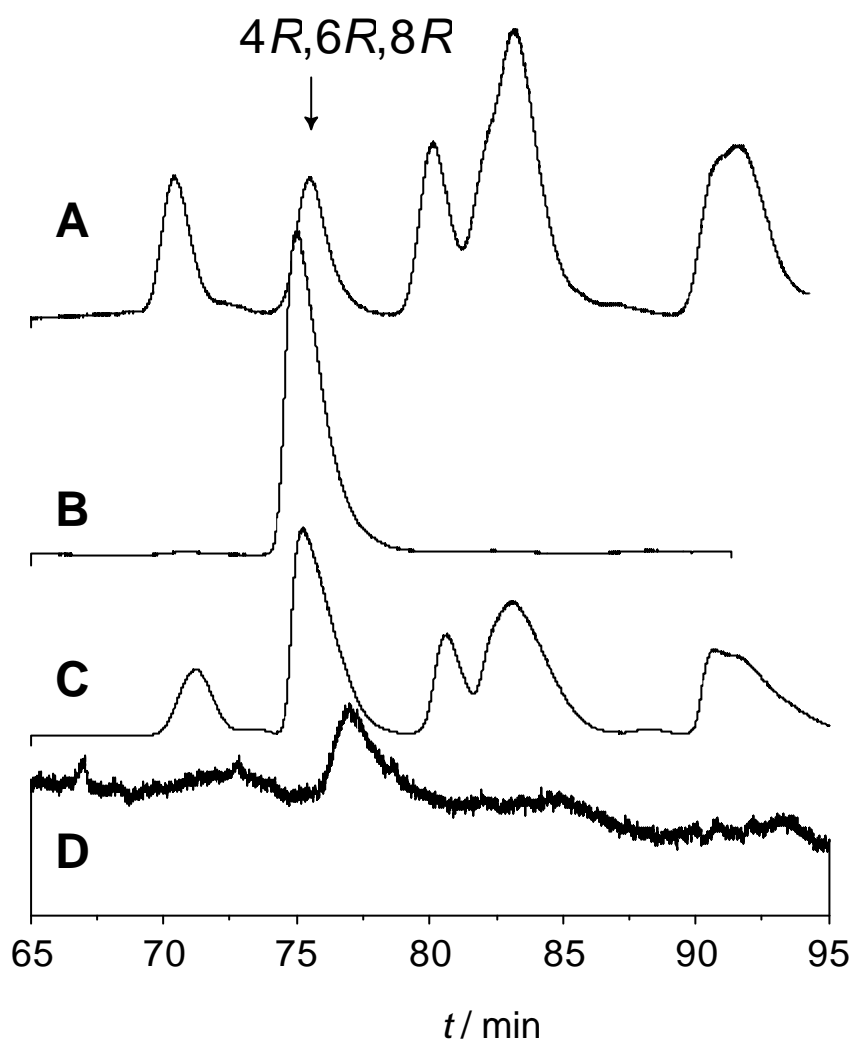
**Figure S2:** Mass spectra of A) 4,6,8-trimethylundecanone (**13**); B) 4,6,8-trimethyldecan-2-ol (**12**); and C) 4,8-dimethyldecan-2-one (**23**).



**Figure S3:** Mass spectra of A) 4,6,8-trimethyldodecan-2-one (**25**); B) 4,6,10-trimethyldodecan-2-one (**26**); and C) 4,6,8,10-tetramethyldodecan-2-one (**27**).



**Figure S4:** Mass spectra of A) 4,6,8,10-tetramethyltetradecan-2-one (**28**); B) (E)-2-(1-methylethyl)-5-methylhex-2-enal (**21**); and C) (E)-2-(1-methylethyl)oct-2-enal (**22**).



**Figure S5:** GC separation of 4,6,8-trimethylundecanone (**13**) on a chiral cyclodextrin phase. A) rac-**13**, B) (4R,6R,8R)-**21**, C) coinjection of A and B; D: mite extract.