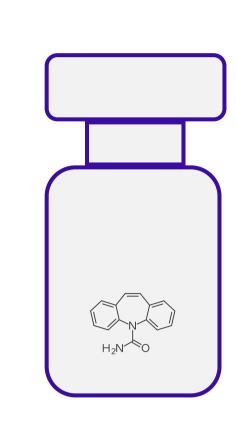
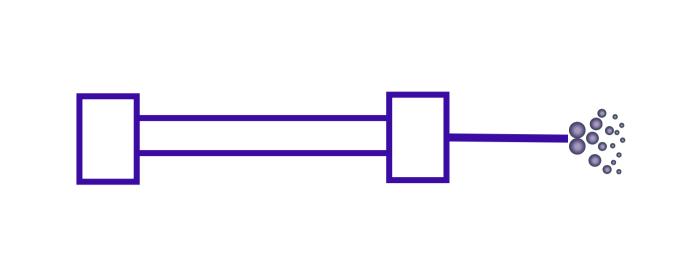


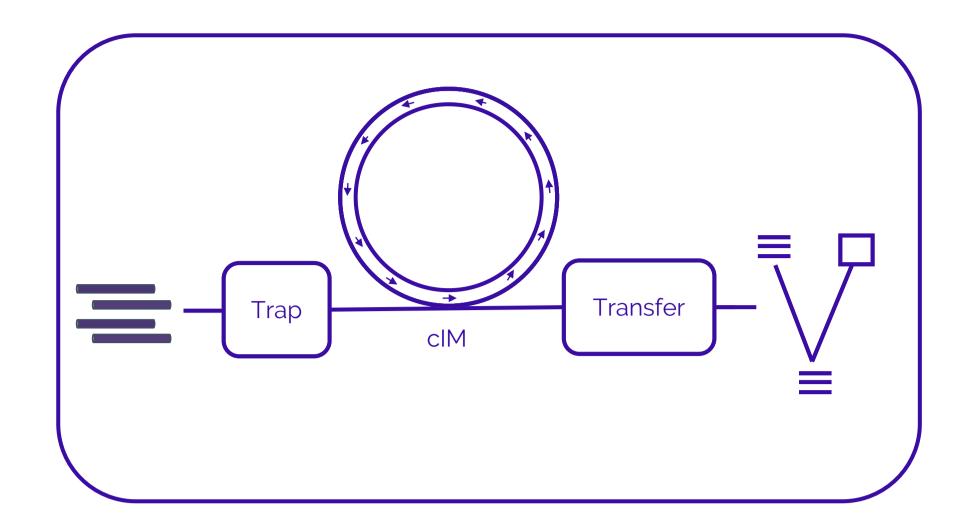
ISOMERS IN NON-TARGET SCREENING

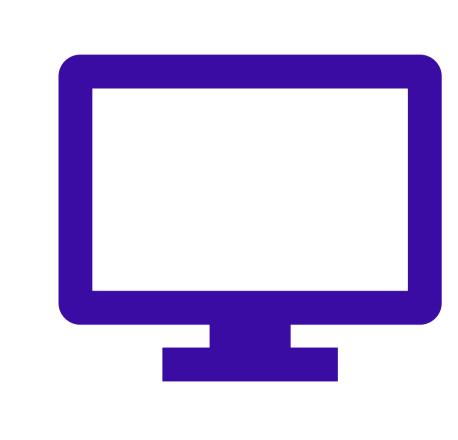
Anneli Kruve,^{a,b} Jaanus Liigand,^c Masoumeh Akhlaqi,^a Wei-Chieh Wang,^a Claudia Möckel^a

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- b Department of Environmental Science, Stockholm University
- ^c Quantem Analytics









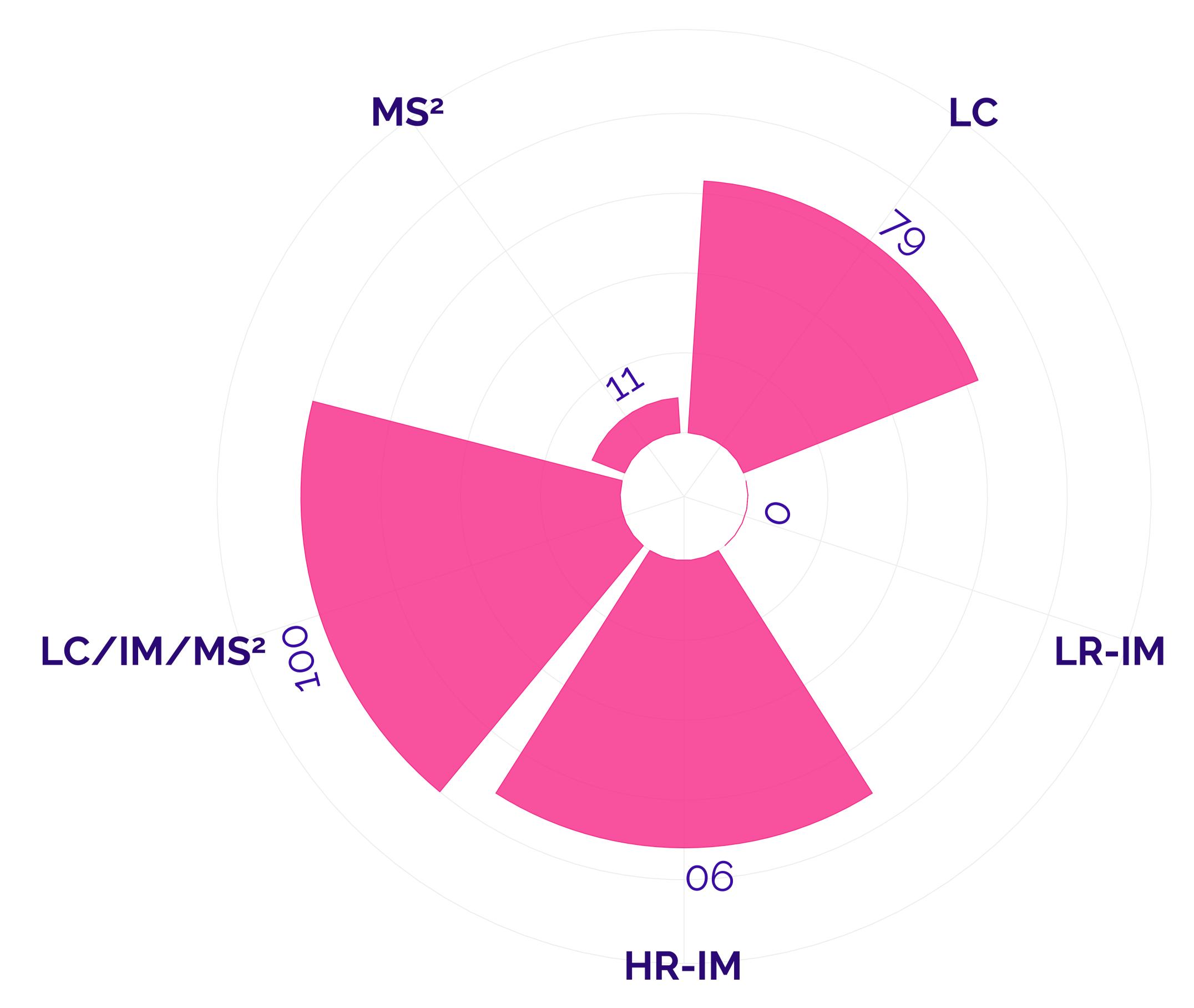
14 isomeric chemicals

C18 150 × 3.0 mm 0.1% formic acid & MeCN 5 to 100% in 20 min

Q Exactive Orbitrap
DDA, inclusion list
&
Cyclic IMS
LR-IM: single pass
HR-IM: multiple pass

SIRIUS+CSI:FingerID & CFM-ID

none of the pairs of isomeric candidate structures could be distinguished with in-silico methods



retention time and high resolution ion mobility were most efficient is distinguishing pairs of isomeric candidate structures if analytical standards were available

Akhlaqi, M.; Wang, W.-C.; Möckel, C.; Kruve, A. *Anal. Bioanal. Chem.* **2023**, *415*, 5247-5259. doi: 10.1007/s00216-023-04852-y