

Interactive comment on “Addition of a fast GC to SIFT-MS for analyses of individual monoterpenes in mixtures” by Michal Lacko et al.

Markus Metsälä

markus.metsala@helsinki.fi

Received and published: 8 April 2019

Very nice work! I have a couple of questions:

- 1) What is the length of the second column that was used ("MXT-Volatiles")? Was it also 5 meters?
- 2) Since the fast-GC part is so simple, would it be possible to enhance the time resolution of the measurement by using parallel fast-GC lines? Basically to inject gas pulses into parallel columns one after another and analyze them sequentially.
- 3) As I understand it, normally fast-GC is done using smaller inner diameter (0.15-0.18 mm or even smaller) columns than what you have used here (0.25 mm). Can you comment why you used 0.28 mm columns and would it be possible to use a smaller

C1

I.D. column instead (to increase gas velocity)?

Please note that there is a typo on page 2, line 15: "which can affects" -> "which can affect".

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-12, 2019.

C2