

Supplementary materials

Hyphenation of Thermodesorption into GCxGC-TOFMS for Odorous Molecule Detection in Car Materials: Column Sets and Adaptation of Second Column Dimensions to TD Pressure Constraints

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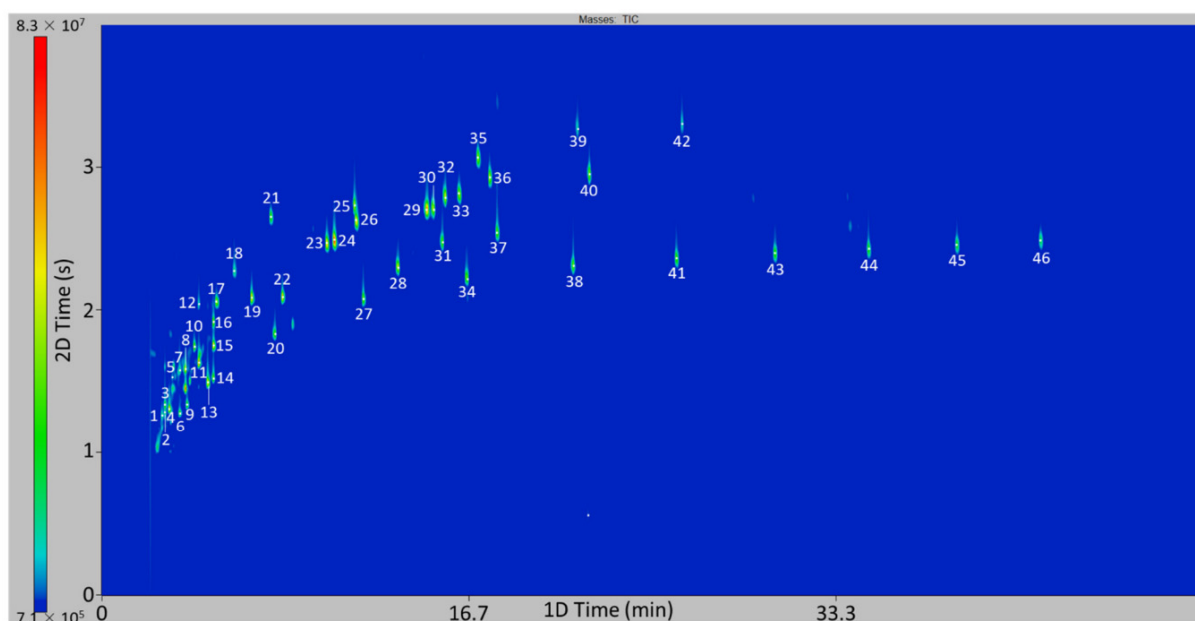


Figure S1. TD-GCxGC-MS chromatogram of 48 VOC standard: 1 ethanol; 2 acetone; 3 2-propanol; 4 methylene chloride; 5 1-propanol; 6 n-hexane; 7 2-butanone; 8 chloroform; 9 2,4-dimethylpentane; 10 1,2-dichloroethene; 11 benzene; 12 1-butanol; 13 isooctane; 14 heptane; 15 trichloroethene; 16 1,2-dichloropropane; 17 bromodichloromethane; 18 4-methyl-2-pentanone; 19 toluene; 20 octane; 21 dibromochloromethane; 22 tetrachloroethene; 23 ethylbenzene; 24 p/m-xylene; 25 styrene; 26 o-xylene; 27 nonane; 28 α -pinene; 29 1-ethyl-3/4-methyl-benzene; 30 mesitylene; 31 β -pinene; 32 1-ethyl-2-methyl-benzene; 33 1,2,4 trimethylbenzene; 34 decane; 35 1,4 dichlorobenzene; 36 1,2,3-trimethylbenzene; 37 limonene; 38 undecane; 39 nonanal; 40 1,2,4,5 tetramethylbenzene; 41 dodecane; 42 decanal; Figure 2. TD-GCxGC-MS chromatogram of 48 VOC standard: 1 ethanol; 2 acetone; 3 2-propanol; 4 methylene chloride; 5 1-propanol; 6 n-hexane; 7 2-butanone; 8 chloroform; 9 2,4-dimethylpentane; 10 1,2-dichloroethene; 11 benzene; 12 1-butanol; 13 isooctane; 14 heptane;

15 trichloroethene; 16 1,2-dichloropropane; 17 bromodichloromethane; 18 4-methyl-2-pentanone; 19 toluene; 20 octane; 21 dibromochloromethane; 22 tetrachloroethene; 23 ethylbenzene; 24 p/m-xylene; 25 styrene; 26 o-xylene; 27 nonane; 28 α -pinene; 29 1-ethyl-3/4-methyl-benzene; 30 mesitylene; 31 β -pinene; 32 1-ethyl-2-methyl-benzene; 33 1,2,4 trimethylbenzene; 34 decane; 35 1,4 dichlorobenzene; 36 1,2,3- trimethylbenzene; 37 limonene; 38 undecane; 39 nonanal; 40 1,2,4,5 tetramethylbenzene; 41 dodecane; 42 decanal; 43 tridecane; 44 tetradecane; 45 pentadecane; 46 hexadecane

Analytical conditions were close to the one of part A experiments, with a 1.1m*0.1mm*0.1 μ m DB-1701 2 D column and a 3°C/min temperature program. Figure from [30].

Figure S2 : chromatograms of PP (3 first) and leather (3 last) with different column configurations

