

Simple Concentration and Analysis of Volatile Compounds in Socks after Wearing – Using Sorptive Media MonoTrap

A simple concentration assay of volatile compounds in socks immediately after wearing the product was carried out using MonoTrap RGC 18TD a simple concentration tool. The MonoTrap RGC18TD is packaged individually in ampoules, no pre-conditioning is required and there is no risk of contamination.

Preliminary processing procedure

Sock

Men in their 40 s worn daily

Collection (passive)
2 MonoTrap RGC18TD

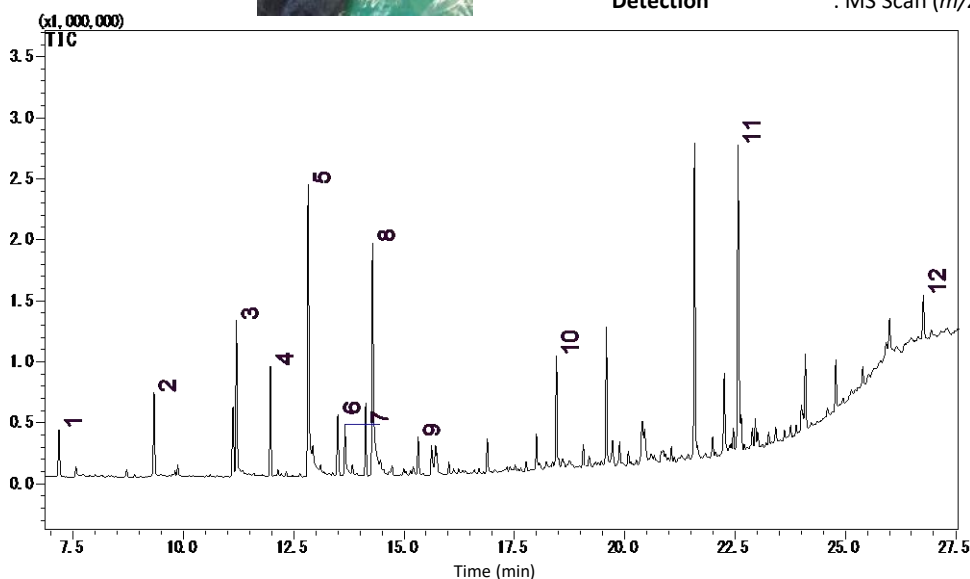
In Tedler bags 37 °C for 1 hour



TD-GC-MS

Conditions

System	: GC-MS-Thermal Desorption
Column	: InertCap Pure-WAX 0.25 mm I.D x 30 m df = 0.25 μm
Col.Temp.	: 40 °C (5 min) - 10 °C/min - 250 °C
Carrier Gas	: He 1 mL/min (constant flow)
Desorb Temp.	: 200 °C
Time	: 5 min
Flow	: 2 mL/min
Split	: Splitless
Cryo Trapping	: -120 °C
Injection Temp.	: 250 °C
Detection	: MS Scan (<i>m/z</i> : 30 - 600)



- | | |
|-----------------------------|----------------------------------|
| 1. Hexanal | 7. Dodecanal |
| 2. Heptanal | 8. Decanal |
| 3. Octanal | 9. Propylene Glycol |
| 4. 6-Methyl-5-heptene-2-one | 10. <i>Trans</i> -Geranylacetone |
| 5. Nonanal | 11. Muskalactone |
| 6. Dichlorobenzene | 12. Benzyl salicirate |

* Standard samples are not used for qualitative analysis.
Results from a library search.

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