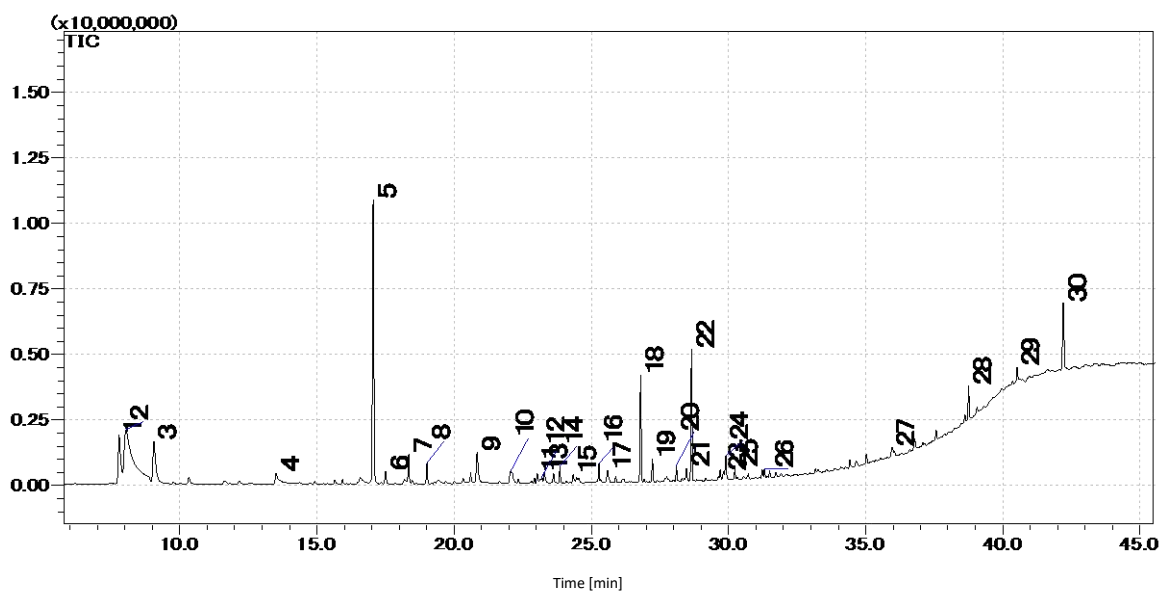
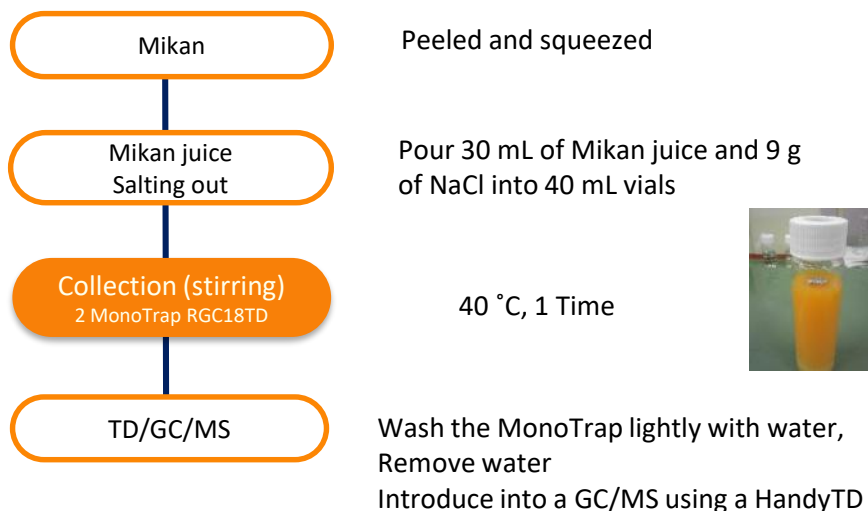


# Concentration analysis of Mikan juice - Using Handy TD Portable Thermal Desorber and MonoTrap Simplified Enrichment Tools

Handy TD and MonoTrap RGC18TD were used to screen the flavor components of Mikan juice. Handy TD is a compact, portable and easy-to-operate thermal desorption device. After sample collection, place the MonoTrap in the glass liner in the Handy TD, and introduce the heat-desorbed components into the GC inlet. A large number of terpenes, including Limonene, were found in citrus fruit.

## Preliminary processing procedure



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

- |                   |                    |                           |
|-------------------|--------------------|---------------------------|
| 1. Ethyl Acetate  | 11. Acetic acid    | 21. Citral                |
| 2. Methyl Alcohol | 12. Linalool oxide | 22. Terpeneol             |
| 3. Ethanol        | 13. Heptanol       | 23. Isopiperitenol        |
| 4. Hexanal        | 14. Linalool oxide | 24. Isopiperitenol        |
| 5. D-Limonene     | 15. Formic acid    | 25. Dibutyl formamide     |
| 6. 2-Hexenal      | 16. Linalool       | 26. Carveol               |
| 7. Terpinene      | 17. Octanol        | 27. Dihydroxyacetone      |
| 8. Cymene         | 18. Terpeneol      | 28. Dihydroxy maltol      |
| 9. 1-Hexanol      | 19. Menthadienol   | 29. Dihydroactinidiolide  |
| 10. Nonanal       | 20. Menthadienol   | 30. Hydroxymethylfurfural |

## Product used

### Portable thermal desorber HandyTD TD265

Product name: HandyTD TD 265  
Cat.No. :2709-80000



### Collection MonoTrap RGC18TD

Product name :MonoTrap RGC 18 TD  
Cat.No. :1050-74201



MonoTrap RGC18TD



MonoTrap Trial Kit for TD

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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