

**CoreFocus**  
**Report**

**No.476**

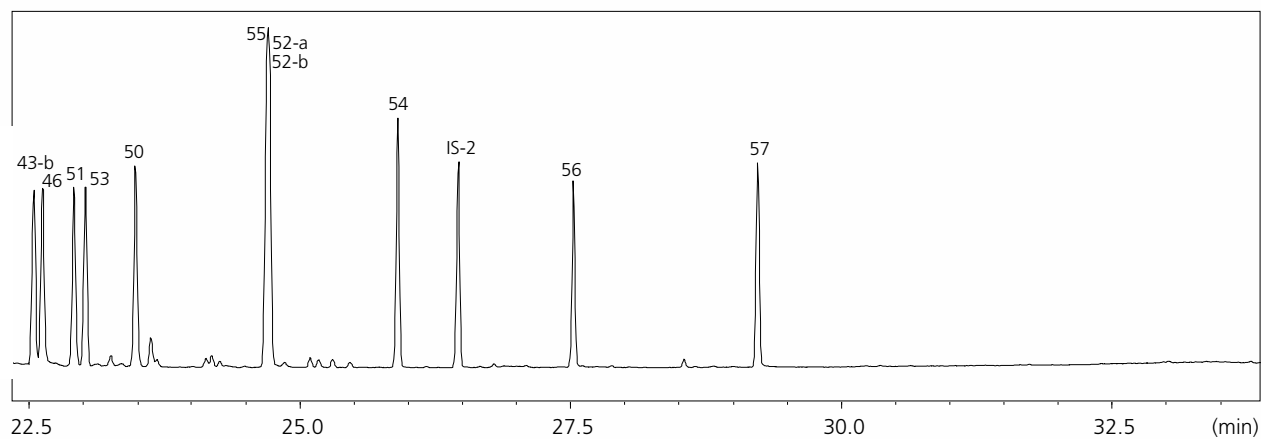
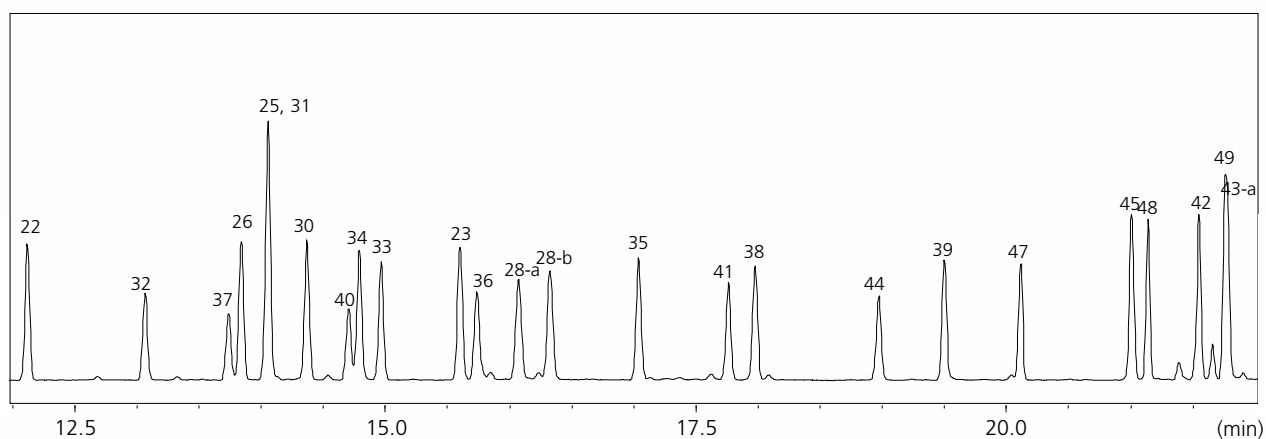
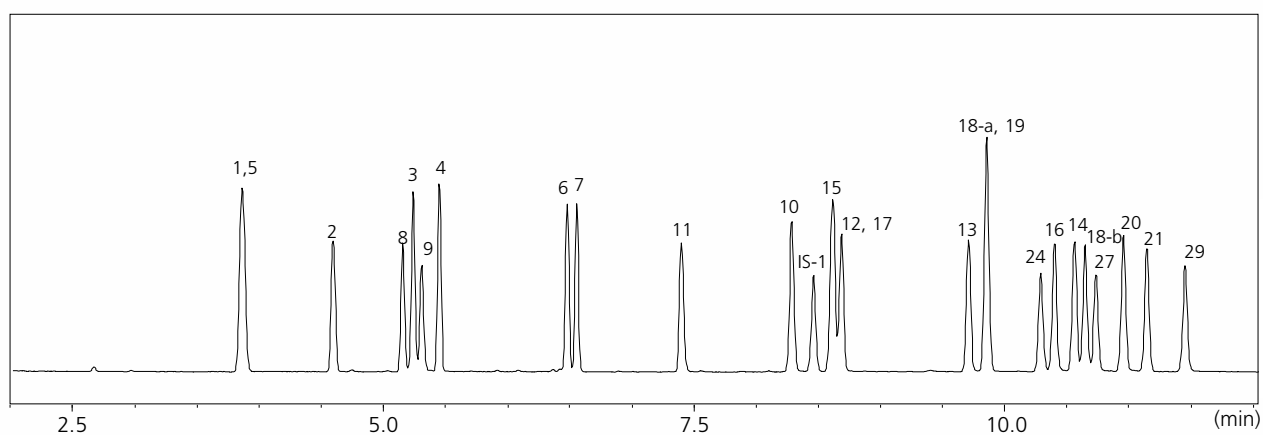
GC-MS

SH Series

**SH-1**

**Analysis of Fragrance Allergens**

Keywords: EC 1223/2009, G/TBT/N/EU/ 924, IFRA



| ID   | Compounds                      | ID   | Compounds                                            |
|------|--------------------------------|------|------------------------------------------------------|
| 1    | $\alpha$ -Pinene               | 31   | $\beta$ -Damascenone                                 |
| 2    | $\beta$ -Pinene                | 32   | Eugenol                                              |
| 3    | $\alpha$ -Terpinene            | 33   | $\beta$ -Damascone (E)                               |
| 4    | Limonene                       | 34   | Trimethyl-benzenepropanol                            |
| 5    | Benzaldehyde                   | 35   | $\alpha$ -Isomethylionone                            |
| 6    | Terpinolene                    | 36   | Isoeugenol                                           |
| 7    | Linalool                       | 37   | Vanillin                                             |
| 8    | Benzyl alcohol                 | 38   | Butylphenyl methylpropional                          |
| 9    | Salicylaldehyde                | 39   | Amyl salicylate                                      |
| 10   | Menthol                        | 40   | Coumarin                                             |
| 11   | Camphor                        | 41   | Eugenyl acetate                                      |
| 12   | $\alpha$ -Terpineol            | 42   | $\beta$ -Tetramethylacetyloctahydronaphthalene       |
| 13   | Citronellol                    | 43-a | $\alpha$ -Santalol                                   |
| 14   | Linalyl acetate                | 43-b | $\beta$ -Santalol                                    |
| 15   | Methyl 2-octynoate             | 44   | 3-Propylidene phthalide                              |
| 16   | Geraniol                       | 45   | $\alpha$ -Amyl cinnamaldehyde                        |
| 17   | Methyl salicylate              | 46   | trans,trans-Farnesol                                 |
| 18-a | Neral                          | 47   | Isoeugenyl acetate                                   |
| 18-b | Geranial                       | 48   | Hydroxyisohexyl 3-cyclohexene carboxaldehyde (major) |
| 19   | Carvone                        | 49   | $\alpha$ -Amylcinnamyl alcohol                       |
| 20   | Hydroxycitronellal             | 50   | $\alpha$ -Acetyl cedrene                             |
| 21   | trans-Anethole                 | 51   | $\alpha$ -Hexylcinnamaldehyde                        |
| 22   | Dimethylbenzylcarbinyl acetate | 52-a | Galaxolide 1                                         |
| 23   | $\beta$ -Caryophyllene         | 52-b | Galaxolide 2                                         |
| 24   | Cinnamaldehyde                 | 53   | Benzyl benzoate                                      |
| 25   | Geranyl acetate                | 54   | Hexadecanolactone                                    |
| 26   | $\delta$ -Damascone            | 55   | Benzyl salicylate                                    |
| 27   | Anise alcohol                  | 56   | Benzyl cinnamate                                     |
| 28-a | Ebanol 1                       | 57   | Sclareol                                             |
| 28-b | Ebanol 2                       |      |                                                      |
| 29   | Cinnamyl alcohol               |      |                                                      |
| 30   | $\alpha$ -Damascone            |      |                                                      |

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| GC-MS System         | : GCMS-QP™ 2020 NX                                                                           |
| Column               | : SH-1<br>(30 m x 0.25 mm I.D., 0.25 $\mu$ m) , P/N : 221-75719-30                           |
| [GC]                 |                                                                                              |
| Injection Method     | : Split                                                                                      |
| Injection Volume     | : 1 $\mu$ L                                                                                  |
| Injector Temperature | : 280°C                                                                                      |
| Carrier Gas          | : He                                                                                         |
| Carrier Gas Control  | : Linear velocity (40 cm/s)                                                                  |
| Column Temperature   | : 80°C (4 min) -15°C/min -105°C (2 min) - 4°C/min - 150°C (1 min) - 10°C/min - 280°C (2 min) |
| [MS]                 |                                                                                              |
| Ionsource Temp.      | : 200°C                                                                                      |
| Interface Temp.      | : 280°C                                                                                      |
| Emission Current     | : 20 $\mu$ A                                                                                 |

Source : Application News 01-00526 ([JP](#), [ENG](#))

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**Shim-pack**

➤ SH-1

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