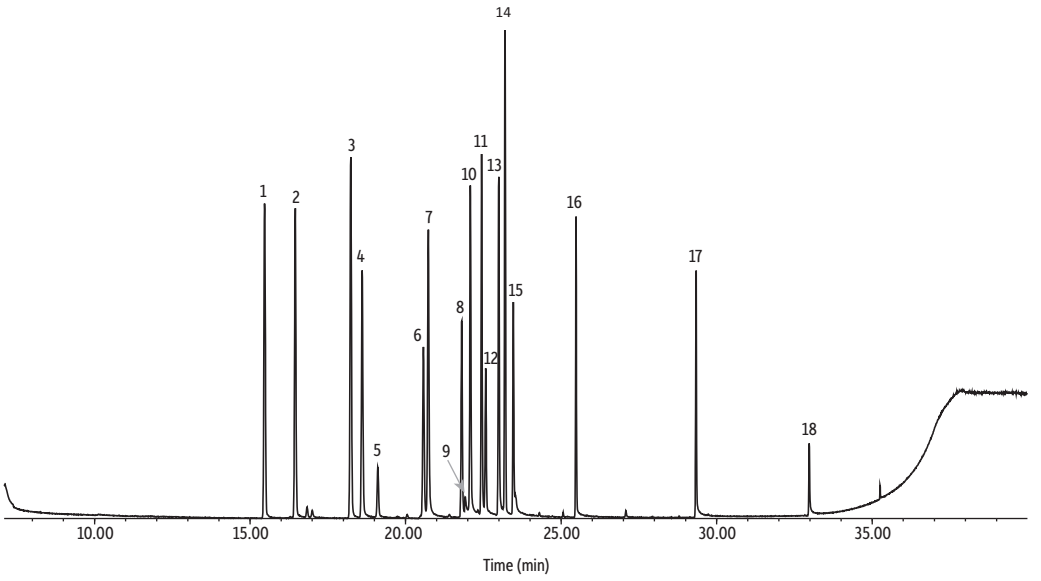
## Terpenes MegaMix #2 on Rxi-1301Sil MS

- Increased number of terpenes.
- Improved separation of terpenes.




GC_GN1212

| | |
|---|---|
| **Column** | Rxi-1301Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 16094) |
| **Sample** | Terpenes MegaMix #2 (cat.# 34143) |
| Diluent: | Isopropanol |
| Conc.: | 10 µg/mL |
| **Injection** | |
| Inj. Vol.: | 1 µL split (split ratio 25:1) |
| Liner: | Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305) |
| Inj. Temp.: | 280 °C |
| Split Vent Flow Rate: | 45 mL/min |
| **Oven** | |
| Oven Temp.: | 40 °C (hold 0.5 min) to 100 °C at 3 °C/min to 200 °C at 8 °C/min to 300 °C at 25 °C/min (hold 3 min) |
| **Carrier Gas** | He, constant flow |
| Flow Rate: | 1.8 mL/min |
| **Detector** | 5977B |
| Scan Program: | |

| Group | Start Time (min) | Scan Range (amu) | Scan Rate (scans/sec) |
|---|---|---|---|
| 1 | 6.5 | 35-350 | 2.3 |

| | |
|---|---|
| Transfer Line Temp.: | 300 °C |
| Analyzer Type: | Quadrupole |
| Source Type: | HES |
| Source Temp.: | 325 °C |
| Quad Temp.: | 200 °C |
| Electron Energy: | 70 eV |
| Solvent Delay Time: | 6.5 min |
| Tune Type: | BFB |
| Ionization Mode: | EI |
| **Instrument** | Agilent 7890B GC & 5977B MSD |

| | Peaks | $t_R$ (min) |
|---|---|---|
| 1. | (1R)-(-)-Fenchone | 15.44 |
| 2. | (-)-alpha-Thujone | 16.45 |
| 3. | Camphor | 18.22 |
| 4. | l-Menthone | 18.61 |
| 5. | D-isomenthone | 19.11 |
| 6. | Safranal | 20.58 |
| 7. | Octyl acetate | 20.71 |
| 8. | (-)-Verbenone | 21.81 |
| 9. | d-Valerolactam | 21.92 |
| 10. | (R)-(+)-Pulegone | 22.07 |
| 11. | (S)-(+)-Carvone | 22.43 |
| 12. | *cis*-Citral | 22.58 |
| 13. | Piperitone | 22.97 |
| 14. | Isobornyl acetate | 23.18 |
| 15. | *trans*-Citral | 23.47 |
| 16. | Geranyl acetate | 25.47 |
| 17. | (-)-Caryophyllene oxide | 29.34 |
| 18. | (+)-Nootkatone | 32.97 |

All compounds at 10 µg/mL.