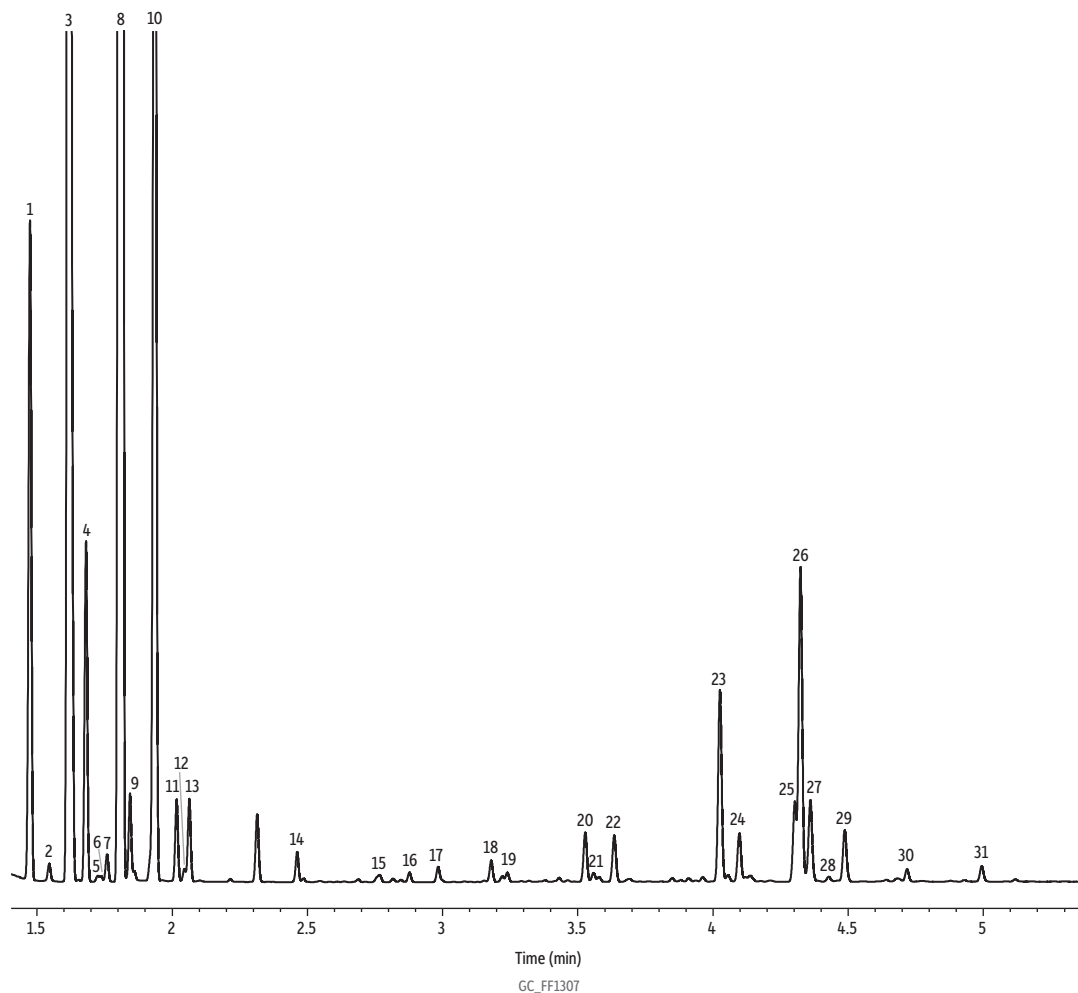


# Lemon Oil on Rtx-Wax



Peaks	tr (min)	Peaks	tr (min)	Peaks	tr (min)
1. $\alpha$ -Pinene	1.473	11. <i>p</i> -Cymene	2.015	22. $\beta$ -Caryophyllene	3.635
2. Camphene	1.544	12. Octanal	2.044	23. Z-Citral	4.026
3. $\beta$ -Pinene	1.618	13. Terpinolene	2.062	24. $\alpha$ -Terpineol	4.098
4. $\beta$ -Myrcene	1.680	14. Nonanal	2.463	25. Neryl acetate	4.303
5. $\alpha$ -Phellandrene	1.722	15. <i>cis</i> - $\beta$ -Terpineol	2.768	26. E-Citral	4.324
6. $\beta$ -Terpinene	1.736	16. Citronellal	2.878	27. $\beta$ -Bisabolene	4.361
7. $\alpha$ -Terpinene	1.758	17. Decanal	2.984	28. $\gamma$ -Elemene	4.429
8. D-Limonene	1.812	18. Linalool	3.180	29. Geranyl acetate	4.488
9. $\beta$ -Phellandrene	1.843	19. Octanol	3.240	30. Nerol	4.718
10. $\gamma$ -Terpinene	1.935	20. $\alpha$ -Bergamotene	3.528	31. Geraniol	4.995
		21. Terpinen-4-ol	3.559		

**Column** Rtx-Wax, 30 m, 0.32 mm ID, 0.25  $\mu$ m (cat.# 12424)  
**Sample** Lemon oil  
**Diluent:** Acetone  
**Conc.:** 5%  
**Injection**  
 Inj. Vol.: 1  $\mu$ L split (split ratio 100:1)  
 Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)  
 Inj. Temp.: 230 °C  
**Oven**  
 Oven Temp.: 100 °C (hold 0.5 min) to 250 °C at 16 °C/min (hold 10 min)  
**Carrier Gas** H<sub>2</sub>, constant flow  
**Flow Rate:** 2 mL/min  
**Detector** FID @ 250 °C  
 Constant Column +  
 Constant Make-up: 52 mL/min  
 Make-up Gas Type: N<sub>2</sub>  
 Hydrogen flow: 40 mL/min  
 Air flow: 400 mL/min  
 Data Rate: 50 Hz  
**Instrument** Agilent 7890A GC  
**Notes** All peaks were identified using the NIST MS EI spectra library (2005).