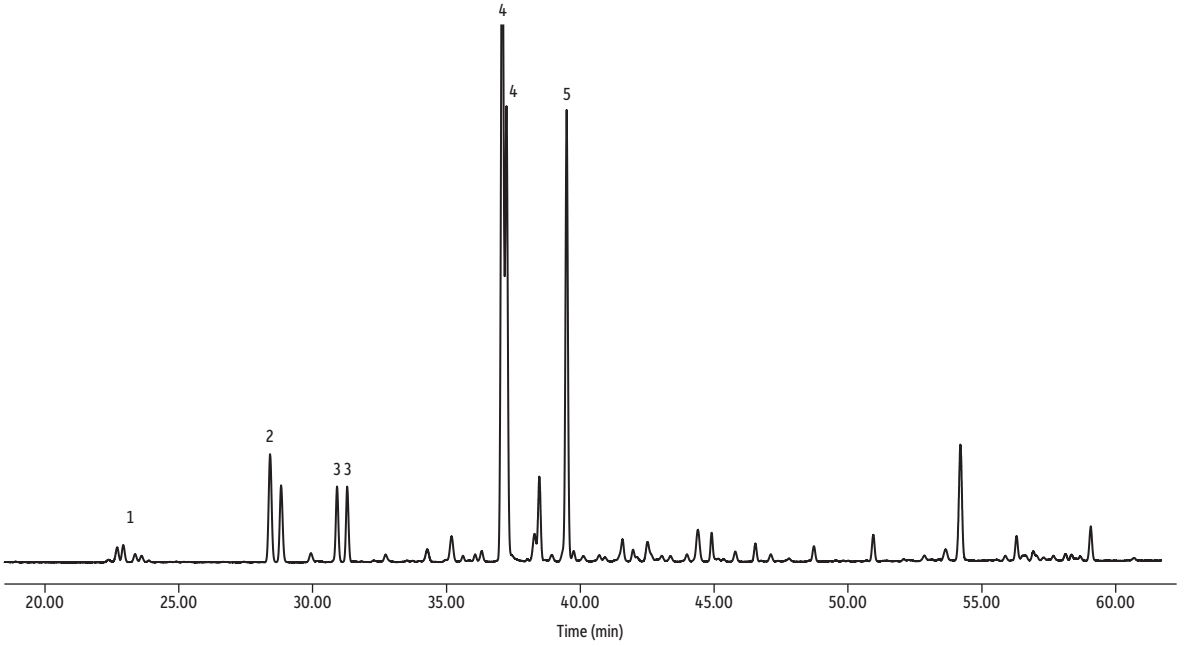
Geranium Oil on Rt-βDEXsa



Peaks	t_R 1	t_R 2	t_R 3	t_R 4
1. Rose oxides	22.701	22.931	23.370	23.616
2. (-) Menthone	28.420	—	—	—
3. Linalool (±)	30.919	31.298	—	—
4. β-Citronellol (±)	37.090	37.245	—	—
5. Geraniol	39.494	—	—	—

Column	Rt-βDEXsa, 30 m, 0.32 mm ID, 0.25 µm (cat.# 13108)
Standard/Sample	Geranium oil
Diluent:	Acetone
Conc.:	5 %
Injection	
Inj. Vol.:	1 µL split (split ratio 100:1)
Liner:	Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.:	210 °C
Oven	
Oven Temp.:	40 °C (hold 1 min) to 230 °C at 2 °C/min (hold 3 min)
Carrier Gas	H_2, constant flow
Linear Velocity:	80 cm/sec @ 40 °C
Detector	FID @ 230 °C
Constant Column + Constant Make-up:	51.4 mL/min
Make-up Gas Type:	N_2
Hydrogen flow:	40 mL/min
Air flow:	400 mL/min
Data Rate:	50 Hz
Instrument	Agilent 7890A GC
Sample Preparation	Geranium oil was dissolved in acetone to a final concentration of 5% in 2 mL, screw-thread vials (cat.# 21143), and capped with short-cap, screw-vial closures (cat.# 24495).