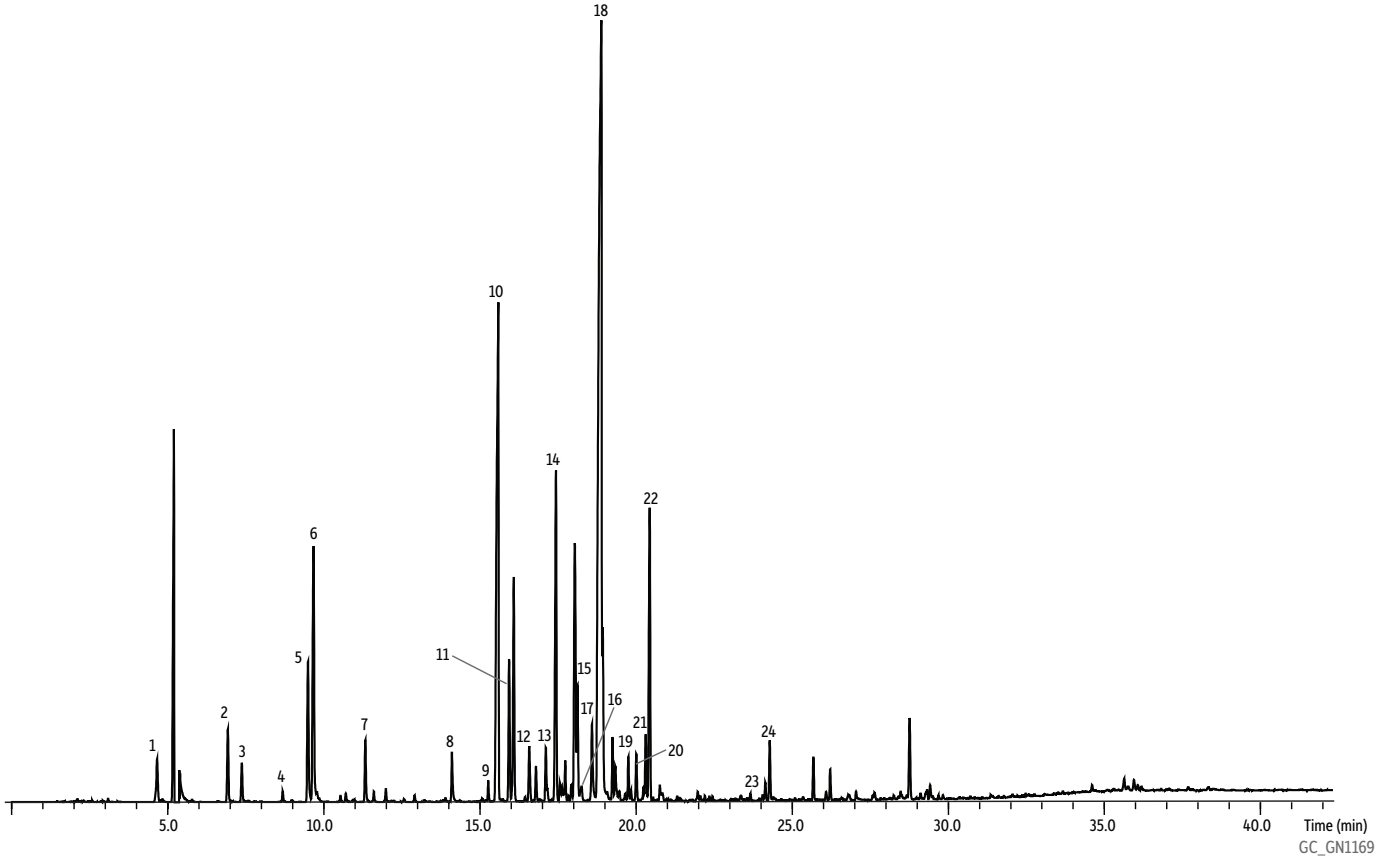
Commercial Spearmint Oil on Stabilwax®-MS

Peaks	t_R (min)
1. α-Pinene	4.66
2. β-Pinene	6.92
3. Sabinene	7.37
4. Myrcene	8.68
5. Limonene	9.49
6. 1,8-Cineole	9.67
7. Cymene	11.33
8. 3-Octanol	14.10
9. 1-Octen-3-ol	15.26
10. Menthone	15.59
11. Menthofuran	15.94
12. β-Bourbonene	16.58

Peaks	t_R (min)
13. Linalool	17.11
14. Menthyl acetate	17.44
15. 4-Terpineol	18.12
16. Dihydrocarvone	18.26
17. Neoisomenthol	18.59
18. Menthol*	18.88
19. Terpineol	19.76
20. Germacrene D	20.01
21. Piperitone	20.31
22. Carvone	20.44
23. Jasmone	23.66
24. Caryophyllene oxide	24.28

* High signal suggests adulteration or misbranding.



GC_GN1169

Column	Stabilwax®-MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 10673)
Sample	Commercial spearmint oil
Conc.:	Neat
Injection	
Inj. Vol.:	1 µL split (split ratio 150:1)
Liner:	Premium 3.5 mm ID single taper w/wool (cat.# 23322.5)
Inj. Temp.:	250 °C
Oven	
Oven Temp:	45 °C (hold 5 min) to 250 °C at 7 °C/min (hold 10 min)
Carrier Gas	He, constant linear velocity
Linear Velocity:	36 cm/sec
Detector	MS
Mode:	Scan
Scan Program:	

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	0	40-550	3.3

Transfer Line Temp.:	260 °C
Analyzer Type:	Quadrupole
Source Temp.:	250 °C
Electron Energy:	70 eV
Ionization Mode:	EI
Instrument	Shimadzu 2010 GC & QP2010+ MS

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