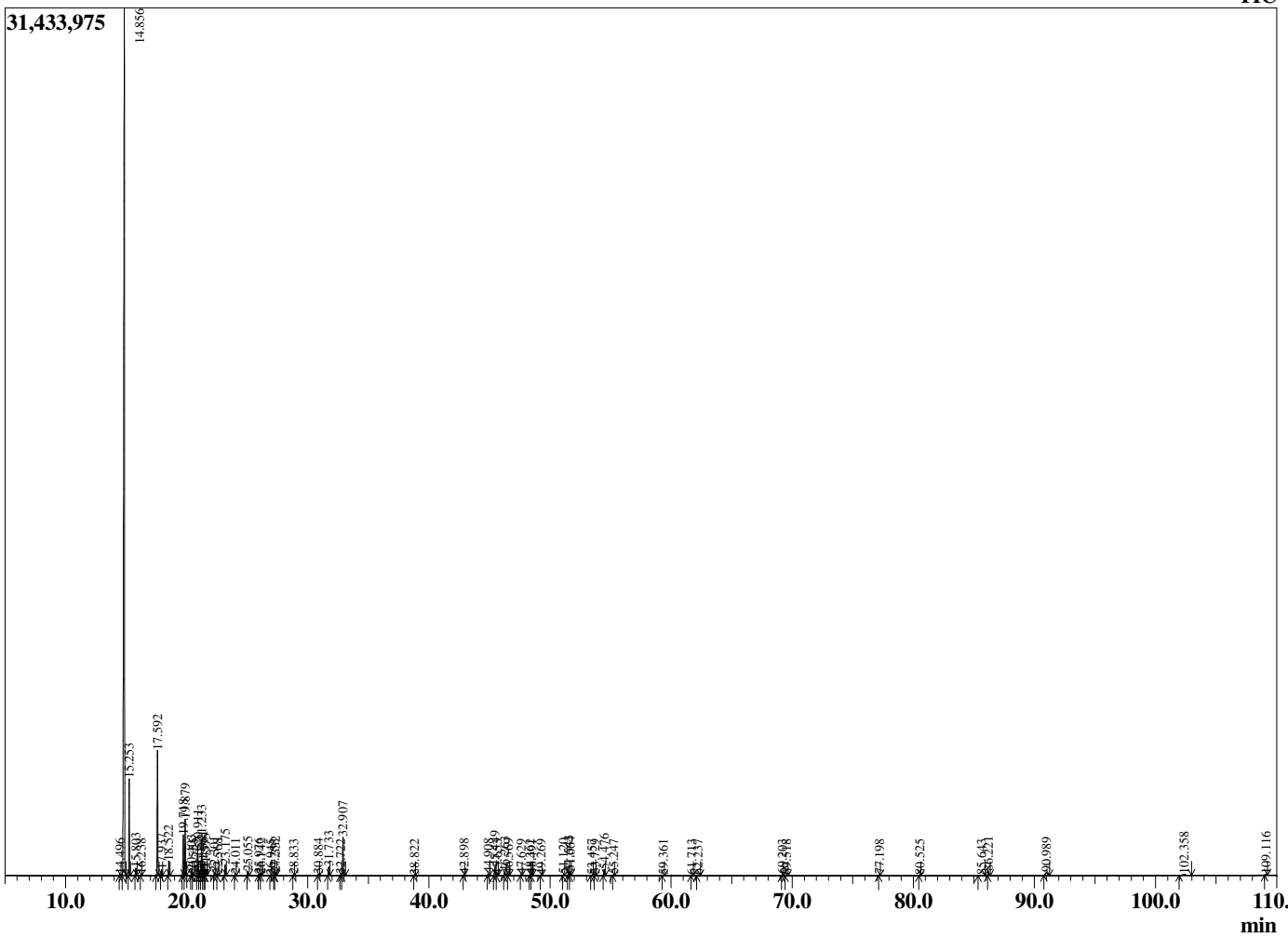
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 11/26/2018 12:36:49 AM
Sample Type : Essential Oil
Sample Name : Frankincense Oil, India - serrata
Sample ID : B0108F
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Frankincense Oil, India - serrata



Peak Report TIC

R.Time	Name	Area%
14.496	Hashishene	0.08
14.856	alpha-Thujene	67.87
15.253	alpha-Pinene	4.68
15.803	Thuja-2,4(10)-diene	0.36
16.238	Camphene	0.06
17.592	Sabinene	6.60
17.937	beta-Pinene	0.32
18.522	Myrcene	0.77
19.718	alpha-Phellandrene	2.26
19.879	3-Carene	3.09
20.403	alpha-Terpinene	0.29
20.555	meta-Cymene	0.06
20.911	para-Cymene	1.70
21.057	Thujol	0.22
21.233	Limonene	1.96
21.361	beta-Phellandrene	0.49
21.459	1,8-Cineole	0.03
21.575	Z-beta-Ocimene	0.34
22.301	E-beta-Ocimene	0.18
22.568	Thujol isomer	0.07
23.175	gamma-Terpinene	0.61
24.011	trans-Sabinene hydrate	0.08
25.055	Terpinolene	0.23
25.976	Linalool	0.08
26.142	cis-Sabinene hydrate	0.06
26.945	Unidentified	0.04
27.255	Unidentified	0.04
27.332	beta-Thujone	0.22
28.833	trans-Sabinol	0.05
30.884	Sabinol isomer	0.09
31.733	Terpinen-4-ol	0.54
32.722	alpha-Terpineol	0.06
32.907	Estragole	2.37
38.822	Bornyl acetate	0.03
42.898	alpha-Terpinyl acetate	0.06
44.908	alpha-Copaene	0.12
45.449	beta-Bourbonene	0.58
45.653	alpha-Bourbonene	0.04
46.263	Methyleugenol	0.23
46.569	Unidentified	0.08
47.629	beta-Ylangene	0.06
48.362	beta-Copaene	0.06
48.491	trans-alpha-Bergamotene	0.06
49.269	6,9-Guaiadiene	0.04
51.120	trans-Cadina-1(6),4-diene	0.07
51.543	Germacrene D	0.28
51.664	gamma-Himachalene	0.26
53.457	gamma-Cadinene	0.03
53.729	delta-Cadinene	0.07
54.476	Sesquiterpenoid	0.40
55.247	Elemicin	0.05
59.361	gamma-Eudesmol	0.03
61.713	alpha-Eudesmol	0.03
62.237	Bulnesol	0.02
69.203	alpha-Phellandrene dimer	0.07
69.518	Unidentified	0.02
77.198	beta-Elemene dimer	0.06
80.525	Verticilla-4(20),7,11-triene	0.04
85.643	Unidentified	0.03
86.221	Serratol	0.27
90.989	Unidentified	0.54
102.358	Unidentified	0.27
109.116	Unidentified	0.07
124.739	Unidentified	0.10
		100.00

Comments:

The analysis of this Frankincense - serrata batch sample meets the expected chemical profile for authentic essential oil of *Boswellia serrata*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

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