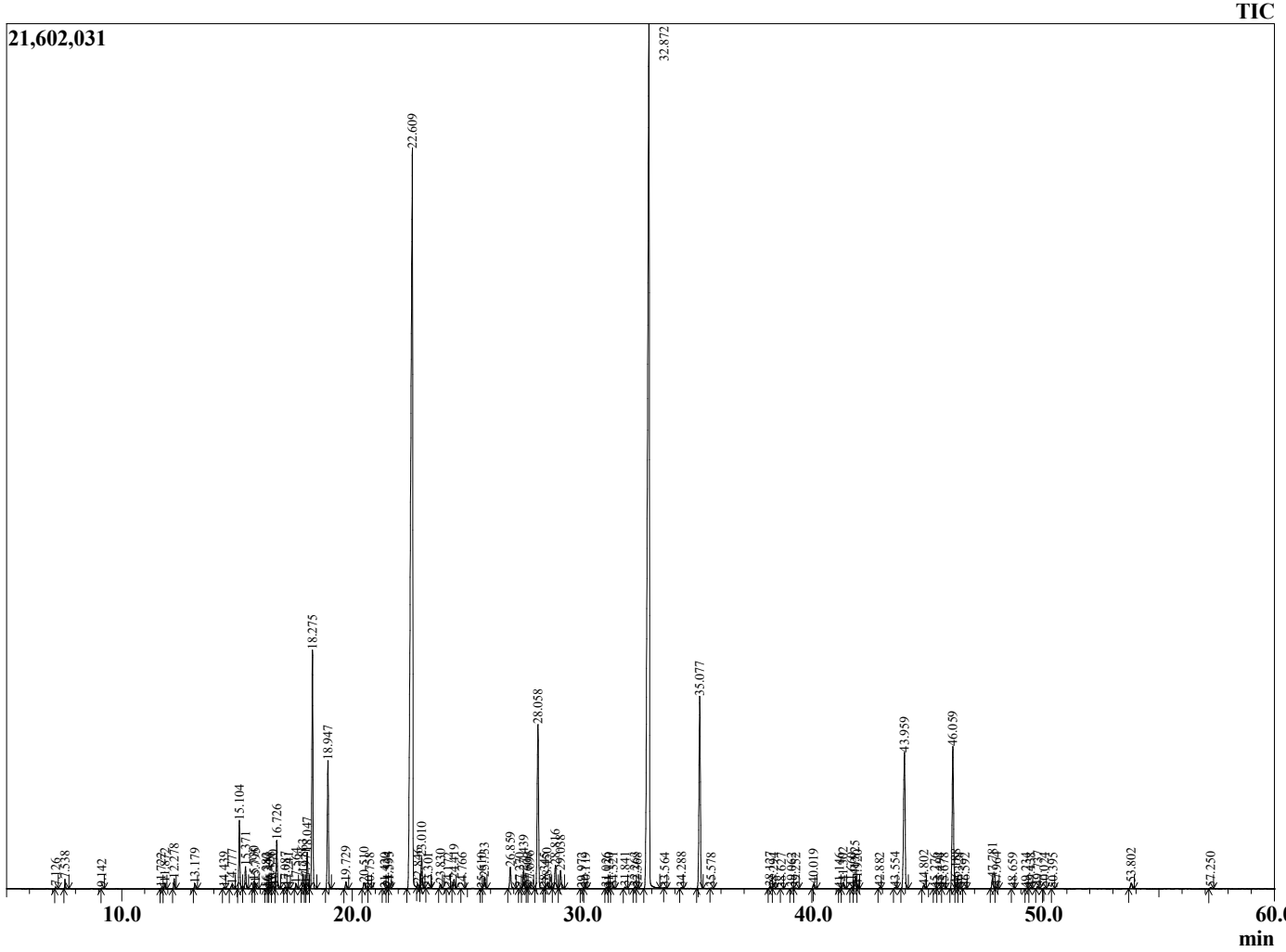
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 10/6/2021 12:40:14 AM
Sample Type : Essential Oil
Sample Name : Lavender Oil, Spontaneous - Barefut
Sample ID : 0107
Injection Volume : 0.10
Instrument ID: : GC-4

Chromatogram Lavender Oil, Spontaneous - Barefut



Comments:

The analysis of this Lavender, Spontaneous France batch sample meets the expected chemical profile for authentic essential oil of *Lavandula angustifolia.* 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.

Peak Report TIC

R.Time	Name	Area%
3.606	2-Methyl-3-buten-2-ol	0.01
4.032	3-Methylbutanal	0.01
7.126	Butyl acetate	0.03
7.538	Hexyl methyl ether	0.14
9.142	Hexanol	0.02
11.722	Tricyclene	0.02
11.872	alpha-Thujene	0.10
12.278	alpha-Pinene	0.19
13.179	Camphene	0.11
14.439	Sabinene	0.03
14.777	1-Octen-3-ol	0.12
15.104	3-Octanone	1.42
15.371	Myrcene	0.47
15.730	Butyl butyrate	0.15
15.795	3-Octanol	0.12
16.282	Pseudolimonene	0.01
16.340	Unidentified	0.01
16.428	alpha-Phellandrene	0.04
16.570	delta-3-Carene	0.07
16.726	Hexyl acetate	1.04
17.087	alpha-Terpinene	0.04
17.241	ortho-Cymene	0.03
17.564	para-Cymene	0.12
17.863	Limonene	0.32
17.971	beta-Phellandrene	0.10
18.047	1,8-Cineole	0.85
18.275	cis-beta-Ocimene	5.12
18.947	trans-beta-Ocimene	2.92
19.729	gamma-Terpinene	0.16
20.510	trans-Sabinene hydrate + cis-Linaloool oxide	0.18
20.758	Unidentified	0.01
21.420	Camphenilone	0.01
21.534	Terpinolene	0.05
21.595	trans-Linalool oxide (furanoid)	0.03
22.609	Linalool	30.21
22.846	Hexyl propionate	0.08
23.010	1-Octen-3-yl acetate	0.72
23.301	Heptyl acetate	0.02
23.830	3-Octyl acetate	0.10
24.172	cis-Sabinene hydrate	0.02
24.419	allo-Ocimene	0.22
24.766	Butyl tiglate	0.01
25.610	Unidentified	0.01
25.733	Camphor	0.35
26.859	Lavandulol	0.56
27.270	cis-Linalool oxide (pyranoid)	0.01
27.439	Borneol	0.46
27.600	trans-Linalool oxide (pyranoid)	0.02
27.696	1,3,5-Undecatriene	0.08
28.058	Terpinen-4-ol	4.39
28.345	Unidentified	0.01
28.450	Cryptone	0.14
28.816	Hexyl butyrate	0.64
29.038	alpha-Terpineol	0.48
29.972	Unidentified	0.01
30.119	Octyl acetate	0.02
31.026	Nerol	0.03
31.130	Citronellol	0.01
31.321	Bornyl formate	0.05
31.841	Hexyl 2-methylbutanoate	0.05
32.263	Cuminal	0.05
32.368	Carvone	0.02

R.Time	Name	Area%
32.872	Linalyl acetate	31.86
33.564	Unidentified	0.01
34.288	Isopulegyl acetate	0.03
35.077	Lavandulyl acetate	5.20
35.578	Unidentified	0.01
38.127	Hexyl tiglate	0.05
38.294	Unidentified	0.01
38.627	Unidentified	0.01
39.062	Unidentified	0.02
39.252	Unidentified	0.03
40.019	Neryl acetate	0.12
41.146	alpha-Copaene	0.01
41.302	Geranyl acetate	0.17
41.660	beta-Bourbonene	0.02
41.825	Hexyl hexanoate	0.36
41.920	7-epi-Sesquithujene	0.09
42.882	alpha-Funebrene	0.02
43.554	cis-alpha-Bergamotene	0.03
43.959	trans-beta-Caryophyllene	4.18
44.802	trans-alpha-Bergamotene	0.10
45.276	Unidentified	0.01
45.494	cis-beta-Farnesene	0.03
45.678	epi-beta-Santalene	0.02
46.059	trans-beta-Farnesene	4.01
46.188	alpha-Humulene	0.11
46.328	Unidentified	0.03
46.592	Unidentified	0.02
47.781	Germacrene D	0.29
47.964	trans-beta-Bergamotene	0.04
48.659	Unidentified	0.01
49.234	trans,trans-alpha-Farnesene	0.01
49.438	beta-Bisabolene	0.03
49.737	gamma-Cadinene	0.06
50.024	Unidentified	0.02
50.395	beta-Sesquiphellandrene	0.01
53.802	Caryophyllene oxide	0.17
57.250	tau-Cadinol	0.04
		100.00