

Sample Information

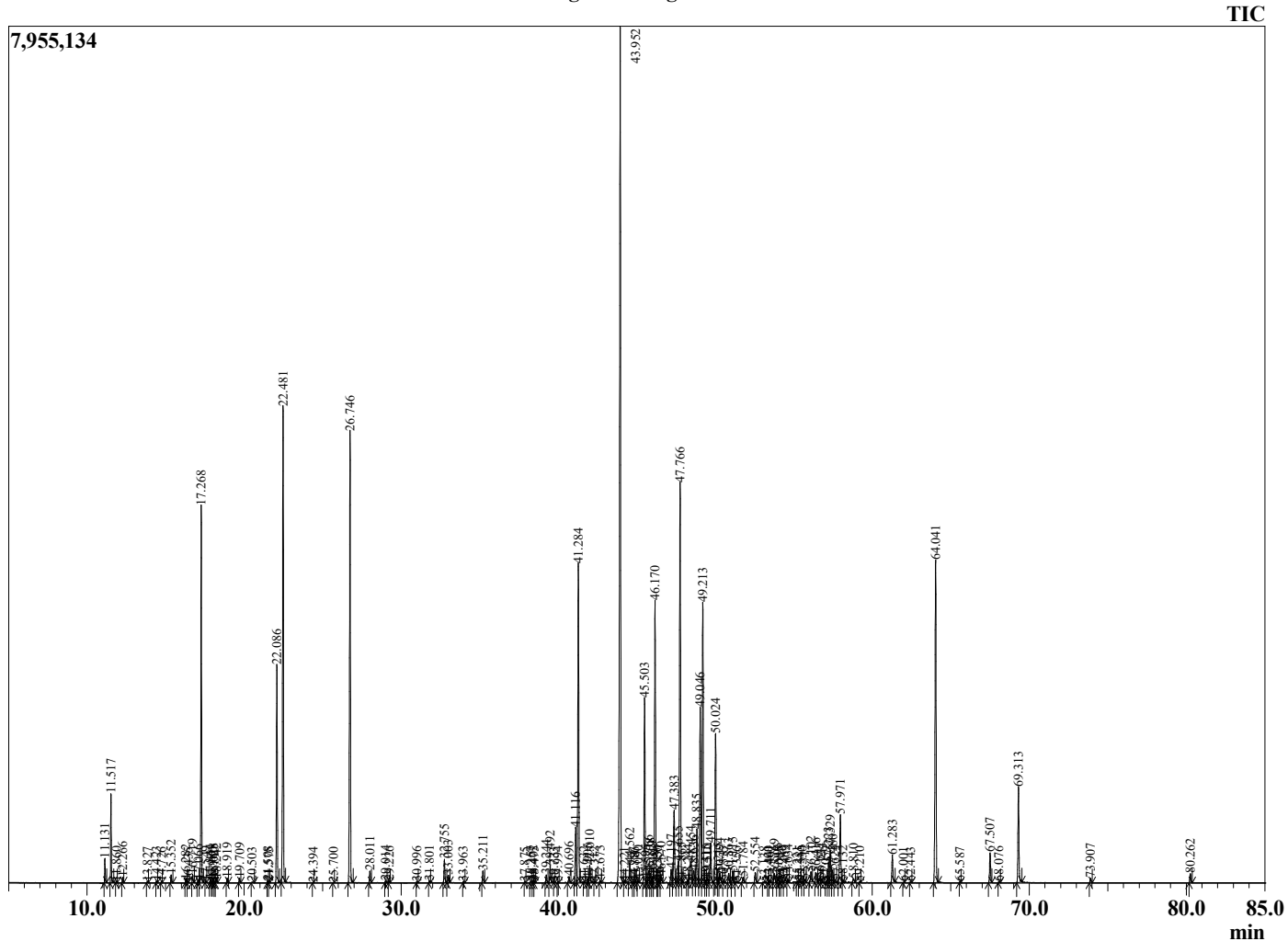
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/24/2022 9:08:07 PM
 Sample Type : Essential Oil
 Sample Name : Ylang Oil - Barefut
 Sample ID : 0115
 Injection Volume : 0.10
 Instrument ID: GC-4



Peak Report TIC

R.Time	Name	Area%
11.131	Amyl acetate	0.28
11.517	Prenyl acetate	1.02
11.860	alpha-Thujene	0.01
12.266	alpha-Pinene	0.07
13.827	Benzaldehyde	0.01
14.423	Sabinene	0.02
14.726	beta-Pinene	0.01
15.352	Myrcene	0.11
16.282	Hex-(3Z)-enyl acetate	0.05
16.435	alpha-Phellandrene	0.01
16.719	Hexyl acetate	0.12
17.066	alpha-Terpinene	0.04
17.268	para-Methyl anisole	5.27
17.549	para-Cymene	0.02
17.844	Limonene	0.05
17.980	beta-Phellandrene	0.01
18.028	1,8-cineole	0.06
18.110	Benzyl alcohol	0.01
18.242	cis-beta-Ocimene	0.05
18.919	trans-beta-Ocimene	0.07
19.709	gamma-Terpinene	0.07
20.503	cis-Linalool oxide (furanoid) + para-Cresol	0.02
21.508	Terpinolene	0.03
21.575	trans-Linalool oxide (furanoid)	0.01
22.086	Methyl benzoate	3.36
22.481	Linalool	7.80
24.394	allo-Ocimene	0.00
25.700	Camphor	0.00
26.746	Benzyl acetate	7.46
28.011	Terpinen-4-ol	0.19
29.014	alpha-Terpineol	0.03
29.226	Estragole	0.03
30.996	Nerol	0.02
31.801	2,3-Dimethoxytoluene	0.03
32.755	Geraniol	0.40
33.003	2-Phenethyl acetate	0.13
33.963	Geranial	0.02
35.211	trans-Anethole	0.20
37.875	Unidentified	0.01
38.257	delta-Elemene analogue	0.04
38.402	Unidentified	0.04
38.475	delta-Elemene	0.02
39.244	alpha-Cubebene	0.14
39.492	Eugenol	0.30
39.733	Unidentified	0.01
39.994	Neryl acetate	0.02
40.696	alpha-Ylangene	0.12
41.116	alpha-Copaene	0.99
41.284	Geranyl acetate	5.53
41.632	Unidentified	0.01
41.905	beta-Cubebene	0.06
42.010	beta-Elemene	0.33
42.312	Unidentified	0.01
42.673	Methyleugenol	0.04
43.952	beta-Caryophyllene	16.85
44.221	Unidentified	0.02
44.562	beta-Copaene	0.36
44.797	Unidentified	0.02
44.886	alpha-Guaiene	0.01
45.090	Aromadendrene	0.04
45.503	trans-Cinnamyl acetate	3.21
45.595	cis-Muurolo-3,5-diene	0.03

Chromatogram Ylang Oil - Barefut



Comments:

The analysis of this Ylang Ylang I batch sample meets the expected chemical profile for authentic essential oil of *Cananga odorata*. 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.

R.Time	Name	Area%
45.766	Cadina-3,5-diene	0.25
45.878	trans-Murrola-3,5-diene	0.18
46.019	trans-beta-Farnesene	0.11
46.170	alpha-Humulene	5.16
46.330	Unidentified	0.03
46.427	cis-Cadina-1(6),4-diene	0.06
46.570	cis-Muurolo-4(14),5-diene	0.14
47.197	trans-Cadina-1(6),4-diene	0.26
47.383	gamma-Muurolo-ene	1.36
47.655	alpha-Amorphene	0.32
47.766	Germacrene D	7.65
47.865	gamma-Himachalene	0.04
48.244	Prenyl benzoate	0.04
48.454	Viridiflorene + trans-Murrola-4(14),5-diene	0.63
48.636	Bicyclogermacrene	0.28
48.835	alpha-Muurolo-ene	1.00
49.046	cis,trans-alpha-Farnesene	3.47
49.213	trans,trans-alpha-Farnesene	5.22
49.415	beta-Bisabolene	0.06
49.510	beta-Curcumene	0.09
49.711	gamma-Cadinene	0.76
50.024	delta-Cadinene	2.78
50.215	trans-Calamenene	0.09
50.294	Zonarene + Unidentified	0.22
50.535	trans-gamma-Bisabolene	0.02
50.863	trans-Cadina-1,4-diene	0.17
51.115	alpha-Cadinene	0.20
51.356	alpha-Calacorene	0.02
51.784	alpha-Elemol	0.11
52.554	trans-Nerolidol	0.20
53.138	(3Z)-3-Hexenyl benzoate	0.03
53.400	Caryophyllene alcohol	0.02
53.461	Unidentified	0.04
53.769	Caryophyllene oxide	0.20
53.996	Globulol	0.09
54.085	Unidentified	0.01
54.249	Unidentified	0.04
54.469	Viridiflorol	0.08
54.634	Guaiol	0.06
55.221	Rosifoliol	0.02
55.385	Humulene epoxide II	0.04
55.530	Unidentified	0.01
55.712	1,10-di-epi-Cubenol	0.05
56.102	Humulane-1,6-dien-3-ol	0.20
56.416	Epicubenol	0.18
56.647	gamma-Eudesmol	0.08
56.774	Epicubeno analoguel	0.07
57.059	Unidentified	0.01
57.223	epi-alpha-Cadinol	0.38
57.329	epi-alpha-Muurolo-ol	0.68
57.480	alpha-Muurolo-ol	0.25
57.624	Cadinol analogue	0.05
57.971	Cadin-4-en-10-ol	1.42
58.132	Unidentified	0.03
58.810	Unidentified	0.09
59.210	Unidentified	0.01
61.283	(2E,6E)-Farnesol	0.52
62.001	Unidentified	0.01
62.443	(E,E)-Farnesal	0.01
64.041	Benzyl benzoate	6.46
65.587	Unidentified	0.01
67.507	Farnesyl acetate	0.54
68.076	Unidentified	0.02

R.Time	Name	Area%
69.313	Benzyl salicylate	1.77
73.907	Geranyl benzoate	0.08
80.262	Benzyl cinnamate	0.17
		100.00