

Sample Information

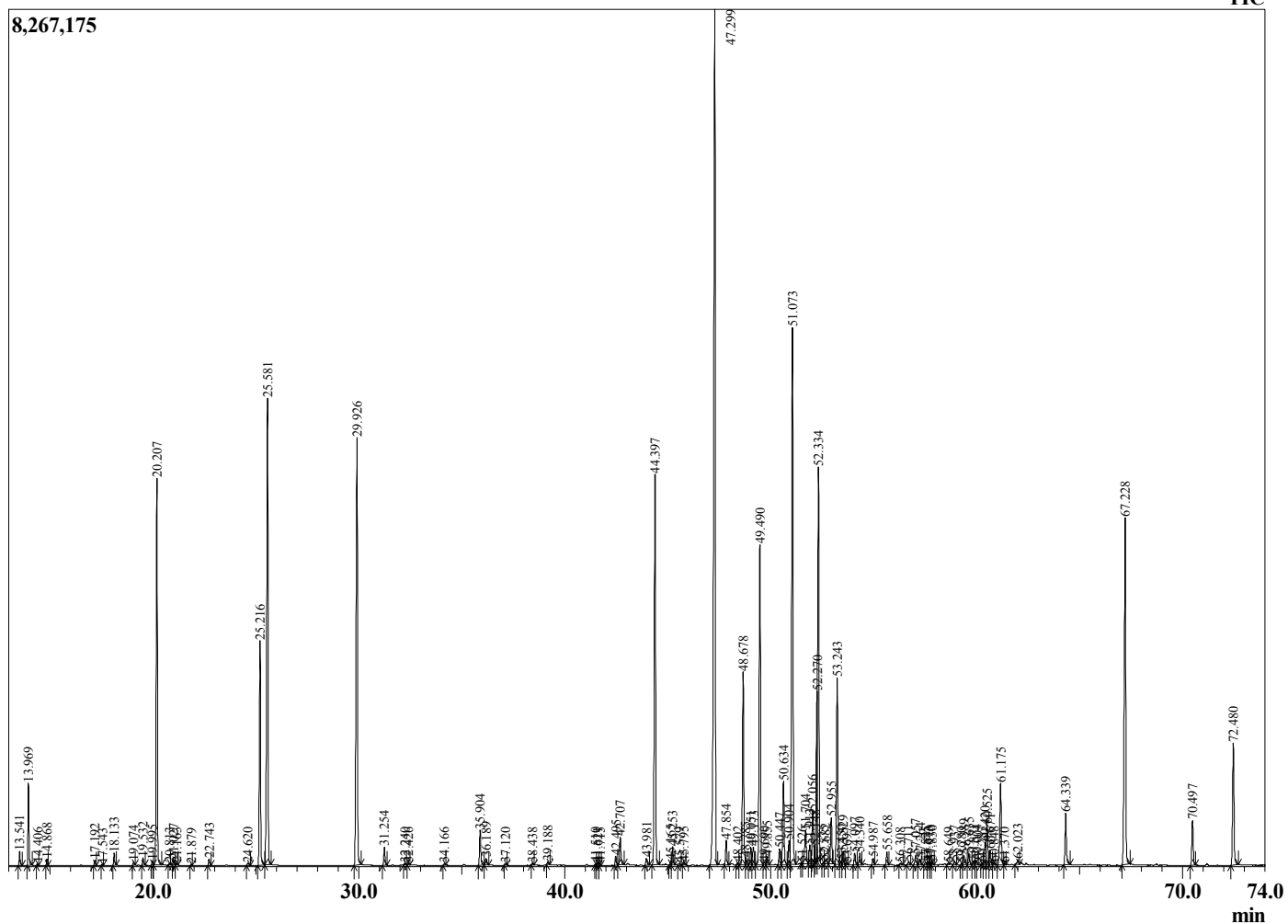
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 11/18/2020 2:43:40 AM  
 Sample Type : Essential Oil  
 Sample Name : Ylang I - Barefut  
 Sample ID : 0113  
 Injection Volume : 0.10  
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
11.753	2-Methylbutyl acetate	0.09
13.541	Amyl acetate	0.17
13.969	Prenyl acetate	0.93
14.406	alpha-Thujene	0.02
14.868	alpha-Pinene	0.07
17.192	Sabinene	0.07
17.543	beta-Pinene	0.01
18.133	Myrcene	0.16
19.074	(Z)-3-Hexenyl acetate	0.04
19.532	Hexyl acetate	0.10
19.995	alpha-Terpinene	0.05
20.207	para-methyl-Anisole	5.24
20.813	Limonene	0.03
21.027	1,8-Cineole	0.07
21.163	(Z)-beta-Ocimene	0.02
21.879	(E)-beta-Ocimene	0.01
22.743	gamma-Terpinene	0.09
24.620	Terpinolene	0.04
25.216	Methyl benzoate	3.19
25.581	Linalool	7.34
29.926	Benzyl acetate	7.18
31.254	Terpinen-4-ol	0.26
32.240	alpha-Terpineol	0.02
32.426	Methyl chavicol	0.02
34.166	Nerol	0.02
35.904	Geraniol	0.52
36.189	2-Phenethyl acetate	0.10
37.120	Geranial	0.02
38.438	(E)-Anethole	0.03
39.188	Carvacrol	0.04
41.510	Unidentified	0.02
41.621	Unidentified	0.04
41.715	delta-Elemene	0.02
42.495	alpha-Cubebene	0.13
42.707	Eugenol	0.44
43.981	alpha-Ylangene	0.12
44.397	Geranyl acetate	6.13
45.165	beta-Cubebene	0.06
45.253	beta-Elemene	0.30
45.579	Unidentified	0.03
45.795	Methyleugenol	0.04
47.299	trans-beta-Caryophyllene	16.37
47.854	beta-Copaene	0.38
48.402	Aromadendrene	0.03
48.678	(E)-Cinnamyl acetate	3.08
48.785	Unidentified	0.12
49.051	cis-Murrola-3,5-diene	0.31
49.173	trans-Murrola-3,5-diene	0.33
49.490	alpha-Humulene	5.17
49.690	cis-Cadina-1(6),4-diene	0.08
49.855	cis-Murrola-4(14),5-diene	0.14
50.447	10-beta-H-Cadina-1(6),4-diene	0.26
50.634	trans-Murrola-4(14),5-diene	1.45
50.904	alpha-Amorphene	0.37
51.073	Germacrene D	9.15
51.526	gamma-Gurjunene	0.02
51.704	trans-Muurolo-4(14),5-diene	0.68
51.913	Bicyclogermacrene	0.31
52.056	alpha-Muuroloene	0.87
52.148	Unidentified	0.15
52.270	(Z,E)-alpha-Farnesene	2.02
52.334	(E,E)-alpha-Farnesene	6.30

Chromatogram Ylang I - 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%
52.575	beta-Bisabolene	0.03
52.682	beta-Curcumene	0.10
52.955	gamma-Cadinene	0.75
53.243	delta-Cadinene	2.90
53.450	Unidentified	0.05
53.529	Zonarene	0.21
53.697	(E)-gamma-Bisabolene	0.03
54.097	trans-Cadina-1,4-diene	0.19
54.340	alpha-Cadinene	0.20
54.987	alpha-Elemol	0.11
55.658	trans-Nerolidol	0.20
56.308	(Z)-3-Hexenyl benzoate	0.03
56.711	Unidentified	0.06
57.057	Caryophyllene oxide	0.19
57.264	Globulol	0.11
57.525	Unidentified	0.04
57.673	Unidentified	0.04
57.770	Unidentified	0.05
57.830	Unidentified	0.05
58.649	Humulene epoxide II	0.02
58.937	Unidentified	0.06
59.280	Unidentified	0.02
59.389	Humulane-1,6-dien-3-ol	0.20
59.635	1-epi-Cubenol	0.21
59.871	gamma-Eudesmol	0.08
60.004	Unidentified	0.07
60.283	Unidentified	0.03
60.420	tau-Cadinol	0.36
60.525	tau-Muurolol	0.73
60.671	alpha-Muurolol	0.25
60.848	Unidentified	0.04
61.175	alpha-Cadinol	1.46
61.370	Unidentified	0.02
62.023	Striatol	0.10
64.339	(2E,6E)-Farnesol	0.84
67.228	Benzyl benzoate	6.34
70.497	(2E,6E)-Farnesyl acetate	0.72
72.480	Benzyl salicylate	2.10
76.961	Geranyl benzoate	0.11
83.352	Benzyl cinnamate	0.05
		100.00