

Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/16/2018 9:25:24 PM
 Sample Type : Essential Oil
 Sample Name : Lemongrass Oil, India
 Sample ID : Barefut-0104
 Injection Volume : 0.10
 Instrument ID : GC-3

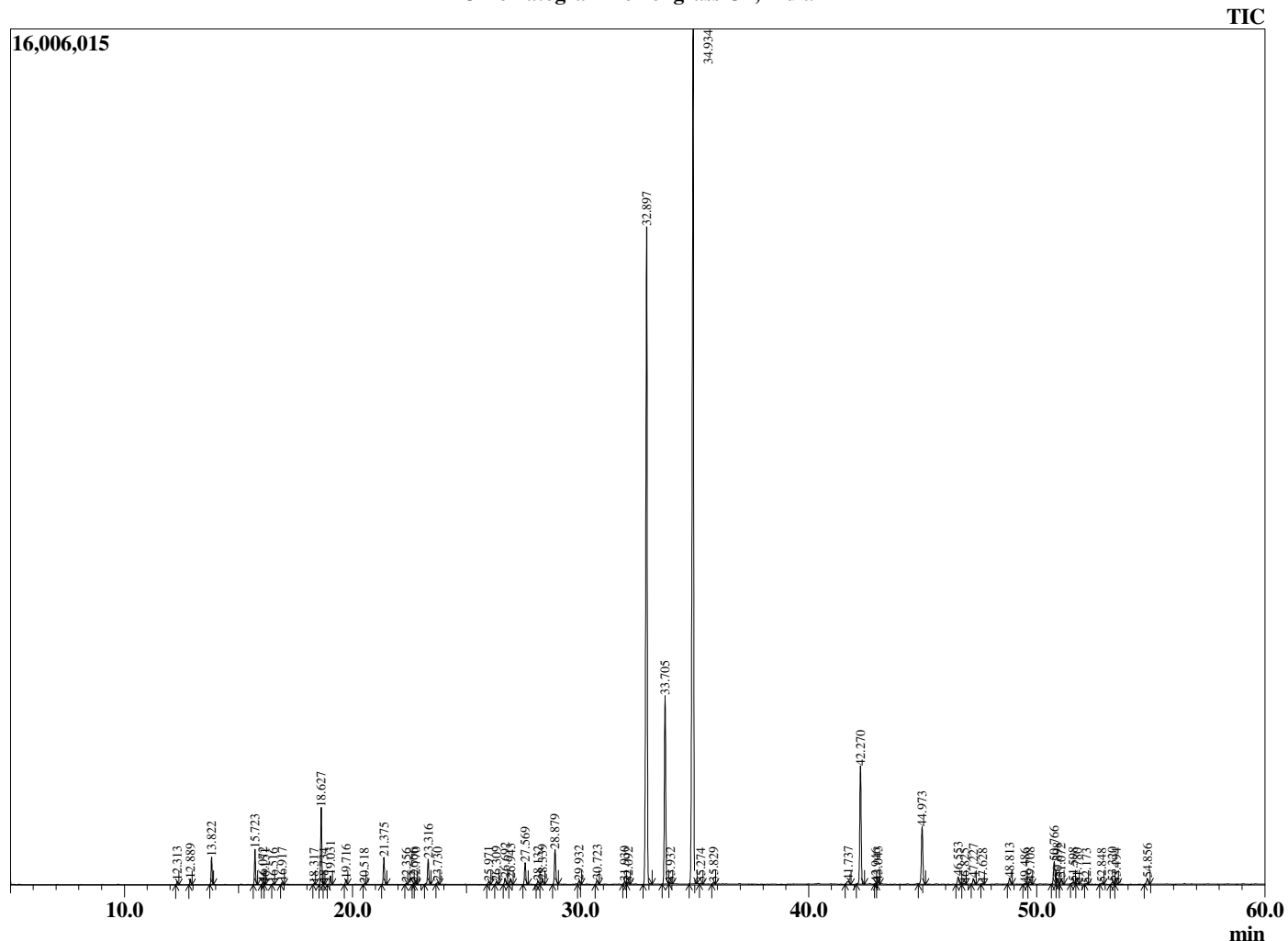


Peak Report TIC

R.Time	Name	Area%
12.313	Tricyclene	0.11
12.889	alpha-Pinene	0.17
13.822	Camphene	0.88
15.723	6-Methyl hept-5-en-2-one	1.15
16.072	Myrcene	0.09
16.151	dehydro-1,8-Cineole	0.02
16.516	trans-Dehydroxylinalool oxide	0.04
16.917	Octanal	0.08
18.317	para-Cymene	0.03
18.627	Limonene	2.75
18.734	beta-Phellandrene	0.05
19.031	cis-beta-Ocimene	0.32
19.716	trans-beta-Ocimene	0.18
20.518	gamma-Terpinene	0.03
21.375	4-Nonanone	0.99
22.356	Terpinolene	0.04
22.666	4-Nonanol	0.02
22.770	Rosefuran	0.08
23.316	Linalool	0.99
23.730	alpha-Pinene oxide	0.09
25.971	Epiphotocitral A	0.11
26.309	exo-Isocitral	0.12
26.692	trans-Chrysanthamal	0.24
26.943	Citronellal	0.22
27.569	cis-Chrysanthenol	0.87
28.132	Isoborneol	0.13
28.339	Borneol	0.18
28.879	trans-Isocitral	1.49
29.932	alpha-Terpineol	0.14
30.723	Decanal	0.18
31.930	Nerol	0.11
32.092	Citronellol	0.07
32.897	Neral	29.29
33.705	Geraniol	7.91
33.932	Piperitone	0.07
34.934	Geranial	39.16
35.274	4-Undecanone	0.03
35.829	trans-Carvone oxide	0.08
41.737	Cyclosativene	0.21
42.270	Geranyl acetate	5.09
42.946	beta-Cubebene	0.03
43.043	beta-Elemene	0.11
44.973	beta-Caryophyllene	2.68
46.553	trans-Isoeugenol	0.36
46.825	Unidentified	0.04
47.227	alpha-Humulene	0.26
47.628	cis-Cadina-1(6),4-diene	0.03
48.813	Germacrene D	0.28
49.486	trans-Muurolo-4(14),5-diene	0.04
49.708	epi-Cubebol	0.13
50.766	gamma-Cadinene	1.05
50.898	Cubebol	0.27
51.072	delta-Cadinene	0.25
51.598	trans-gamma-Bisabolene	0.10
51.780	Unidentified	0.03
52.173	alpha-Cadinene	0.04
52.848	Elemol	0.05
53.320	Geranyl butyrate	0.11
53.494	Germacrene B	0.03
54.856	Caryophyllene oxide	0.31
		100.00

This report is valid for 1 year from the analyzed date.

Chromatogram Lemongrass Oil, India



Comments:

The analysis of this Lemongrass, India batch sample meets the expected chemical profile for authentic essential oil of *Cymbopogon flexuosus*. No contamination or adulteration was detected.