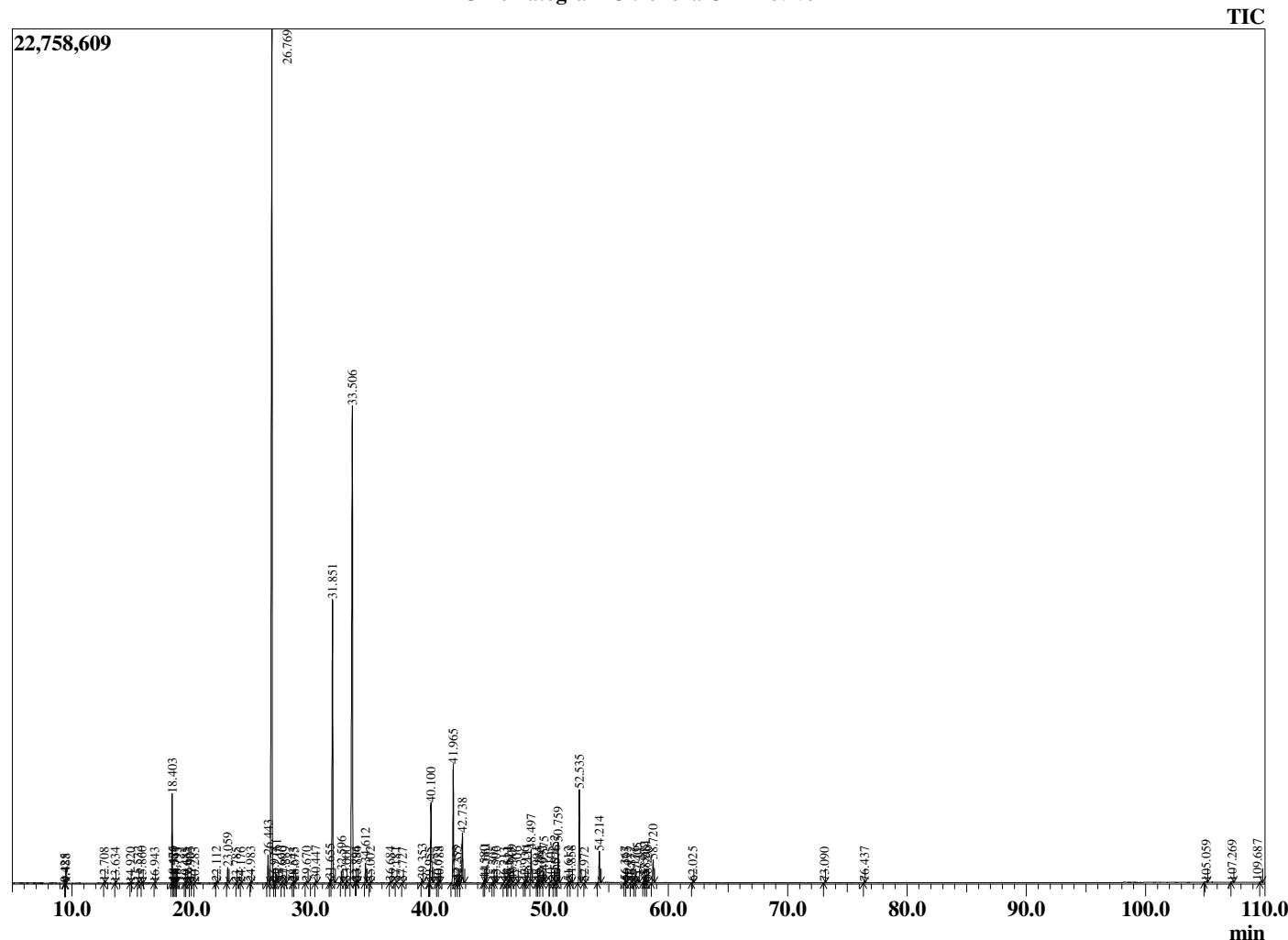


Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 5/9/2022 5:32:55 AM
 Sample Type : Essential Oil
 Sample Name : Citronella Oil - Revive
 Sample ID : 9C
 Injection Volume : 0.10
 Instrument ID: : GC-3



Chromatogram Citronella Oil - Revive



Peak Report TIC		
R.Time	Name	Area%
9.425	1-Isopropyl-3-methylcyclopentane isomer	0.01
9.488	1-Isopropyl-3-methylcyclopentane isomer	0.01
12.708	alpha-Pinene	0.02
13.634	Camphene	0.01
14.920	Sabinene	0.01
15.532	6-Methyl hept-5-en-2-one	0.05
15.860	Myrcene	0.04
16.943	alpha-Phellandrene	0.01
18.403	Limonene	2.72
18.475	beta-Phellandrene	0.03
18.589	Unidentified	0.03
18.711	Unidentified	0.05
18.795	(Z)-beta-Ocimene	0.02
19.485	(E)-beta-Ocimene	0.02
19.635	Unidentified	0.01
19.905	Bergamal	0.06
20.283	gamma-Terpinene	0.01
22.112	Terpinolene	0.04
23.059	Linalool	0.49
23.785	cis-Rose oxide	0.00
24.176	Unidentified	0.01
24.983	Unidentified	0.04
26.443	Isopulegol	0.95
26.769	Citronellal	38.90
26.974	Menthone	0.07
27.161	Neoisopulegol	0.35
27.600	Isomenthone	0.02
27.889	Isopulegol	0.07
28.543	Neoisopulegol	0.02
28.675	Terpinen-4-ol	0.03
29.670	alpha-Terpineol	0.06
30.447	Decanal	0.09
31.655	Nerol	0.12
31.851	Citronellol	10.70
32.596	Neral	0.39
33.000	Carvone	0.04
33.506	Geraniol	22.16
33.796	Unidentified	0.01
33.884	Unidentified	0.02
34.612	Geranial	0.66
35.002	Citronellyl formate	0.03
36.684	Geranyl formate	0.04
37.181	Citronellic acid	0.03
37.727	Unidentified	0.02
39.353	Citriodiol	0.15
39.955	alpha-Cubebene	0.01
40.100	Citronellyl acetate	3.36
40.673	Neryl acetate	0.03
40.788	Citriodiol isomer	0.04
41.965	Geranyl acetate	4.21
42.255	Elemene isomer	0.06
42.372	beta-Bourbonene	0.10
42.738	beta-Elemene	1.89
44.580	beta-Ylangene	0.08
44.661	trans-beta-Caryophyllene	0.19
45.305	beta-Copaene	0.04
45.506	trans-alpha-Bergamotene	0.03
46.213	Unidentified	0.01
46.511	cis-Murrola-3,5-diene	0.02
46.624	trans-Murrola-3,5-diene	0.04
46.909	alpha-Humulene	0.11
47.306	cis-Cadina-1(6),4-diene	0.02

Comments:

The analysis of this Citronella batch sample meets the expected chemical profile for authentic essential oil of *Cymbopogon winterianus*. 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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R.Time	Name	Area%
47.936	10-beta-H-Cadina-1(6),4-diene	0.03
48.111	trans-Cadina-1(6),4-diene	0.16
48.497	Germacrene D	1.23
48.991	beta-Selinene	0.02
49.165	trans-Muurolo-4(14),5-diene	0.04
49.391	4-epi-Cubebol	0.14
49.575	alpha-Muurolene	0.44
50.105	Unidentified	0.06
50.452	gamma-Cadinene	0.46
50.576	Cubebol	0.06
50.759	delta-Cadinene	1.55
51.612	trans-Cadina-1,4-diene	0.02
51.858	alpha-Cadinene	0.09
52.535	alpha-Elemol	3.45
52.972	Unidentified	0.01
54.214	Germacren D-4-ol	1.22
56.367	Unidentified	0.05
56.475	Unidentified	0.02
56.877	10-epi-gamma-Eudesmol	0.02
57.176	1-epi-Cubenol	0.02
57.405	gamma-Eudesmol	0.21
57.972	tau-Cadinol	0.22
58.081	epi-alpha-Cadinol	0.27
58.230	delta-Cadinol	0.07
58.720	alpha-Cadinol	1.03
62.025	(2E,6E)-Farnesol	0.03
73.090	Unidentified	0.01
76.437	Unidentified	0.04
105.059	Unidentified	0.05
107.269	Unidentified	0.05
109.687	Unidentified	0.05
		100.00