

Sample Information

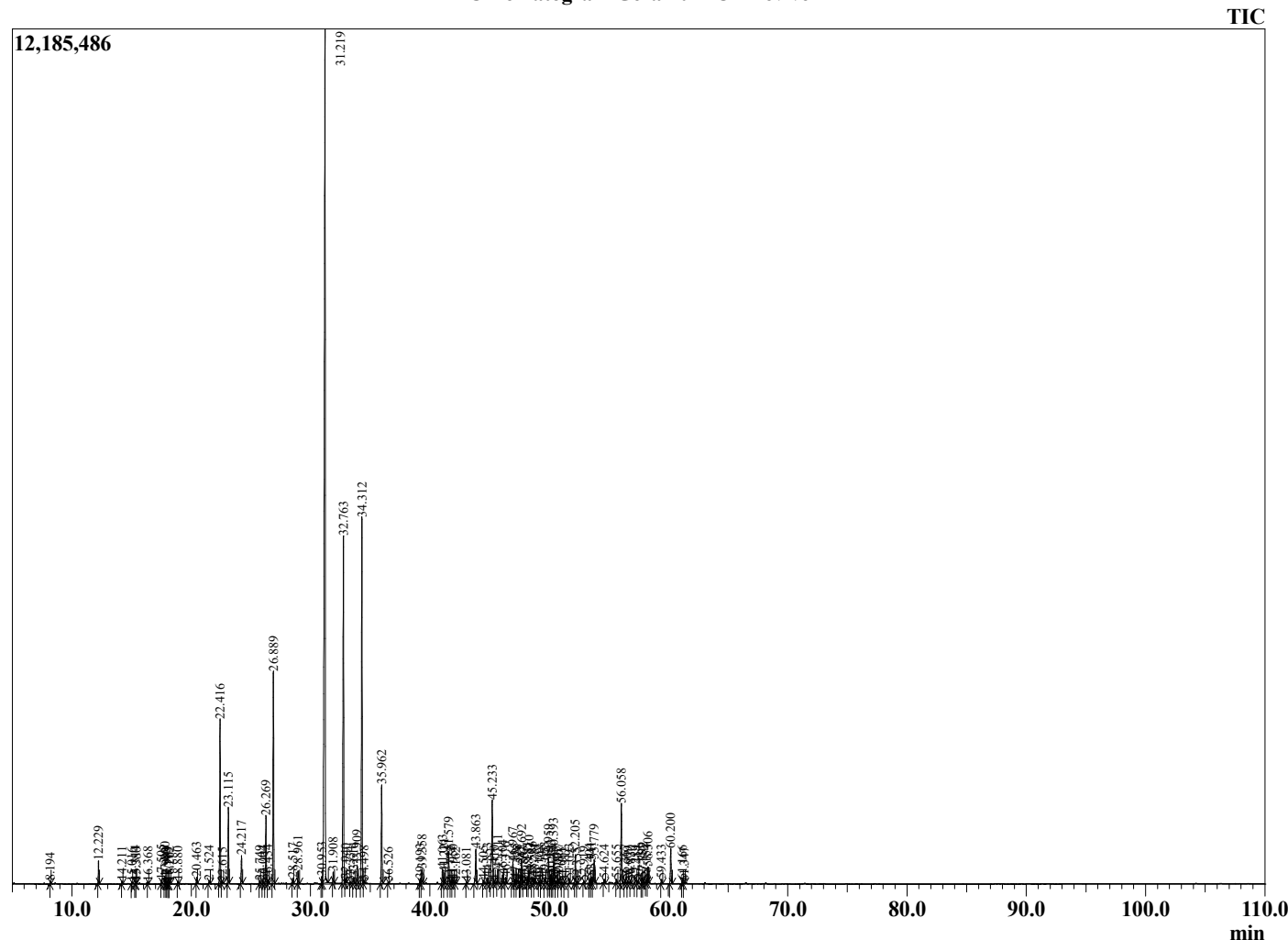
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 11/19/2022 12:35:36 AM
 Sample Type : Essential Oil
 Sample Name : Geranium Oil Revive
 Sample ID : 8R
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
8.194	3-methyl-Pentanol	0.04
12.229	alpha-Pinene	0.46
14.211	Bois de Rose oxide	0.06
15.016	6-methyl-Hept-5-en-2-one	0.04
15.314	Myrcene	0.07
15.380	unidentified	0.03
16.368	alpha-Phellandrene	0.04
17.505	para-Cymene	0.09
17.800	Limonene	0.17
17.903	beta-Phellandrene	0.03
17.989	2,6-dimethyl-7-Octen-2-ol	0.05
18.115	Dihydromyrcenol	0.04
18.202	cis-beta-Ocimene	0.06
18.880	trans-beta-Ocimene	0.07
20.463	cis-Linalool oxide (furanoid)	0.16
21.524	trans-Linalool oxide (furanoid)	0.10
22.416	Linalool	4.17
22.615	6-methyl-Heptadi-3,5-en-2-one	0.05
23.115	ROSE OXIDE B	1.90
24.217	trans-Rose oxide	0.72
25.749	neoiso-Isopulegol	0.07
26.004	3,7 methyl-6-Octenal	0.07
26.269	Menthone	1.87
26.434	unidentified	0.11
26.889	Isomenthone	5.74
28.517	Isomenthol	0.14
28.961	alpha-Terpineol	0.36
30.953	Nerol	0.21
31.219	Citronellol	36.05
31.908	Neral	0.30
32.763	Geraniol	10.83
32.940	unidentified	0.16
33.334	unidentified	0.03
33.614	unidentified	0.18
33.909	Geranial	0.51
34.312	Citronellyl formate	10.51
34.498	unidentified	0.07
35.962	Geranyl formate	2.76
36.526	unidentified	0.03
39.193	alpha-Cubebene	0.13
39.358	Citronellyl acetate	0.42
41.063	alpha-Copaene	0.45
41.221	Geranyl acetate	0.31
41.579	alpha-Bourbonene	1.00
41.772	beta-Bourbonene	0.06
41.950	beta-Elemene	0.12
42.162	phenethyl-Isobutyrate	0.04
43.081	alpha-Gurjunene	0.04
43.863	trans-Caryophyllene	1.17
44.505	beta-Copaene	0.11
44.853	alpha-Guaiene	0.16
45.233	6,9-Guaiaadiene	3.15
45.410	unidentified	0.08
45.711	Isogermacrene D	0.41
46.104	alpha-Humulene	0.28
46.376	trans-9-epi-Caryophyllene	0.17
46.967	Geranyl propanoate	0.66
47.135	cis-Murrola-4(14),5-diene	0.16
47.328	gamma-Murolene	0.15
47.585	alpha-Amorphene	0.07
47.692	Germacrene D	0.78
47.863	Selina-4,11-diene	0.04

Chromatogram Geranium Oil Revive



Comments:

The analysis of this Geranium, Egypt batch sample meets the expected chemical profile for authentic essential oil of *Pelargonium graveolens*. 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%
48.185	beta-Selinene	0.15
48.310	Viridiflorene	0.42
48.586	icyclogermacrene	0.24
48.781	alpha-Muurolene	0.19
49.162	unidentified	0.07
49.348	Geranyl isobutyrate	0.10
49.653	gamma-Cadinene	0.19
49.959	delta-Cadinene	0.77
50.153	cis-Calamenene	0.31
50.231	Zonarene	0.12
50.393	Citronellyl butyrate	0.91
50.605	Furopolargone A	0.08
50.807	trans-Cadina-1,4-diene	0.13
51.061	Selina-4(15),7(11)-diene	0.04
51.312	alpha-Calacorene	0.05
51.693	alpha-Agarofuran	0.15
52.205	Geranyl butyrate	0.86
52.355	beta-Humulene	0.05
52.919	Citronellyl propionate	0.06
53.404	Spathulenol	0.13
53.541	Furopolargone A	0.20
53.779	phenethyl-Tiglate	0.84
54.624	Geranyl 2-methylbutyrate	0.12
55.655	Epicubenol	0.11
56.058	10-epi-gamma-eudesmol	2.64
56.367	Epicubenol	0.10
56.609	gamma-Eudesmol	0.05
56.830	Eremoligenol isomer	0.07
57.289	Himachalol	0.17
57.414	Guaiacwood acetate	0.08
57.799	Valerianol	0.21
57.882	beta-Eudesmol	0.22
58.154	4-alpha-hydroxy-Dihydro agarofuran	0.07
58.306	trans-Citronellyl tiglate	0.46
59.433	Citronellyl hexanoate	0.13
60.200	Geranyl tiglate	1.03
61.166	Geraniol hexanoate	0.10
61.347	Citronellyl butyrate	0.05
		100.00