

Sample Information

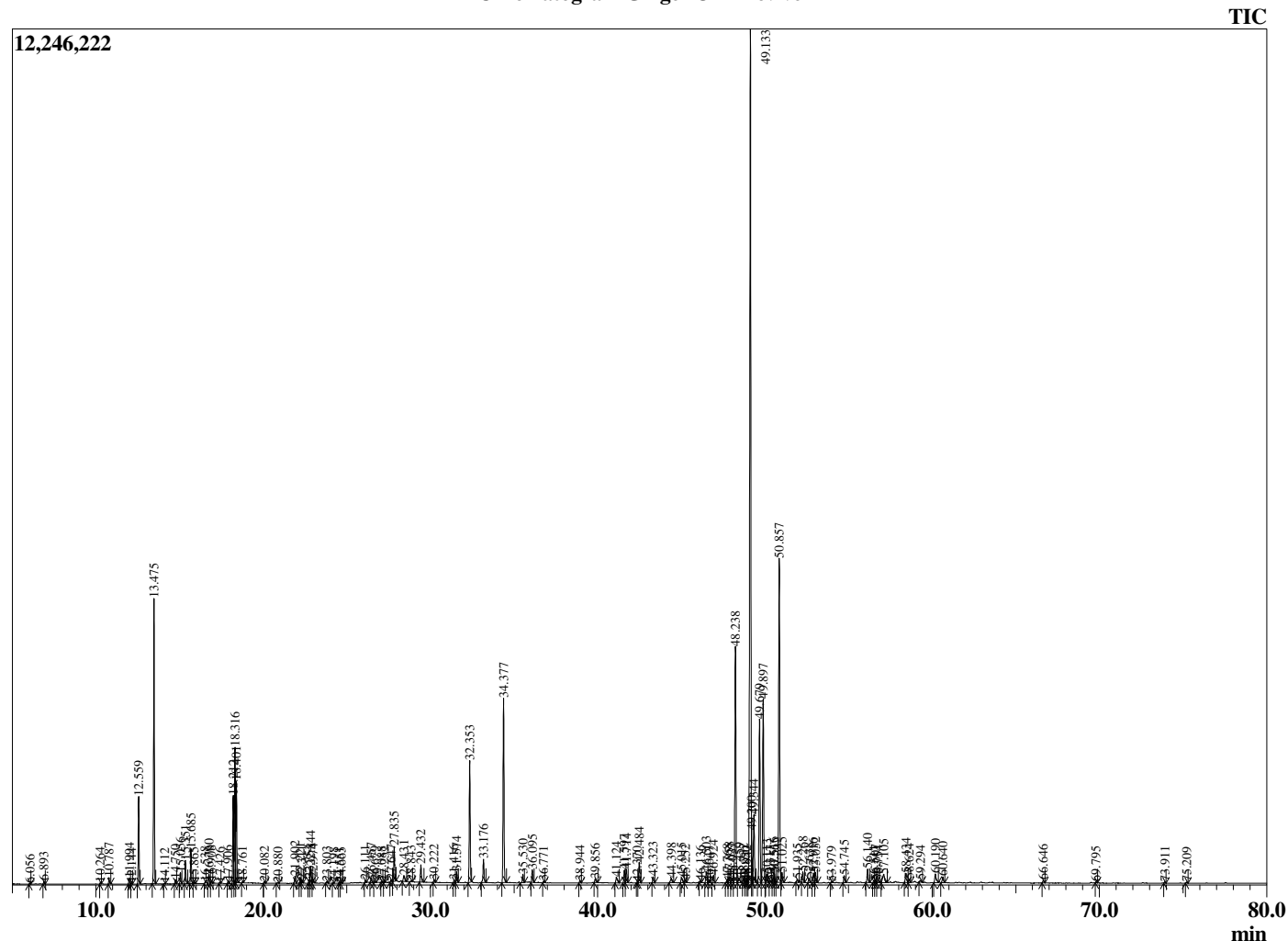
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 4/4/2022 3:11:39 AM
 Sample Type : Essential Oil
 Sample Name : Ginger Oil - Revive
 Sample ID : 0A
 Injection Volume : 0.10 µL
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
6.056	Toluene	0.01
6.893	Hexanal	0.07
10.264	2-Heptanone	0.03
10.787	2-Heptanol	0.14
11.994	Tricyclene	0.14
12.144	alpha-Thujene	0.02
12.559	alpha-Pinene	1.97
13.475	Camphene	6.56
14.112	(E)-2,6-Dimethyl-1,3,5,7-octatetraene	0.01
14.750	Sabinene	0.10
15.056	beta-Pinene	0.26
15.351	6-Methyl hept-5-en-2-one	0.56
15.685	Myrcene	0.81
15.865	6-Methyl hept-5-en-2-ol	0.04
16.538	Octanal	0.03
16.760	alpha-Phellandrene	0.21
16.908	delta-3-Carene	0.05
17.426	alpha-Terpinene	0.02
17.906	para-Cymene	0.06
18.212	Limonene	2.21
18.316	beta-Phellandrene	3.40
18.401	1,8-Cineole	2.53
18.761	2-Heptyl acetate	0.03
20.082	gamma-Terpinene	0.04
20.880	trans-Sabinene hydrate	0.02
21.902	Terpinolene	0.18
22.221	2-Nonanone	0.13
22.311	Rosefuran	0.07
22.754	Unidentified	0.09
22.844	Linalool	0.45
22.974	Nonan-2-ol	0.13
23.803	(E)-4,8-Dimethyl-1,3,7-nonatriene	0.04
24.198	alpha-Fenchol	0.01
24.551	cis-para-Menth-2-en-1-ol	0.01
24.665	trans-2-Pinanol	0.02
26.111	Camphor	0.06
26.457	Citronellal	0.13
26.679	Camphene hydrate	0.05
27.088	Isoneral	0.04
27.252	Isoborneol	0.02
27.647	Rose furan oxide	0.07
27.835	Borneol	0.94
28.431	Isopulegol + Terpinen-4-ol	0.23
28.843	para-Cymen-8-ol	0.03
29.432	alpha-Terpineol	0.51
30.222	Decanal	0.08
31.416	Nerol	0.07
31.574	Citronellol	0.30
32.353	Neral	3.26
33.176	Geraniol	0.70
34.377	Geranial	5.07
35.530	Bornyl acetate	0.23
36.095	2-Undecanone	0.37
36.771	2-Undecanol	0.04
38.944	delta-Elementene	0.07
39.856	Citronellyl acetate	0.13
41.124	Cyclosativene	0.23
41.597	alpha-Copaene	0.39
41.714	Geranyl acetate	0.40
42.370	7-epi-Sesquithujene	0.03
42.484	beta-Elementene	0.62
43.323	alpha-Funebrene	0.19

Chromatogram Ginger Oil - Revive



Comments:

The analysis of this Ginger batch sample meets the expected chemical profile for authentic essential oil of *Zingiber officinale*. 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%
44.398	trans-beta-Caryophyllene	0.17
45.015	gamma-Elemene + Calarene	0.20
45.252	trans-alpha-Bergamotene	0.08
46.136	Unidentified	0.05
46.503	(E)-beta-Farnesene	0.42
46.647	alpha-Humulene	0.03
46.924	Alloaromodendrene	0.23
47.768	Unidentified	0.12
47.858	trans-Cadina-1(6),4-diene	0.22
48.037	gamma-Curcumene	0.16
48.238	Ar-Curcumene	7.23
48.459	Unidentified	0.20
48.732	beta-Selinene	0.11
48.850	Unidentified	0.04
48.942	Valencene	0.05
49.133	alpha-Zingiberene	27.46
49.200	alpha-Selinene	0.69
49.344	trans-Muurolo-4(14),5-diene	2.15
49.679	(E,E)-alpha-Farnesene	4.99
49.897	beta-Bisabolene	5.70
50.113	gamma-Cadinene	0.29
50.317	Cubebol	0.06
50.516	delta-Cadinene	0.29
50.565	(-)-alpha-Panasinsen	0.20
50.857	beta-Sesquiphellandrene	9.98
51.025	(E)-gamma-Bisabolene	0.29
51.935	Unidentified	0.10
52.268	alpha-Elemol	0.32
52.638	Sesquisabinene hydrate isomer	0.14
52.916	Germacrene B	0.30
53.032	(E)-Nerolidol	0.33
53.979	ar-Tumerol	0.03
54.745	Sesquisabinene hydrate isomer	0.21
56.140	cis-Zingiberenol	0.42
56.511	Unidentified	0.06
56.607	10-epi-gamma-Eudesmol	0.09
56.754	Unidentified	0.09
57.105	trans-Zingiberenol	0.47
58.434	alpha-Eudesmol	0.39
58.624	Unidentified	0.12
59.294	beta-Bisabolol	0.07
60.190	Unidentified	0.38
60.640	(2Z,6Z)-Farnesol	0.21
66.646	Unidentified	0.09
69.795	Unidentified	0.03
73.911	Unidentified	0.03
75.209	Unidentified	0.03
		100.00