

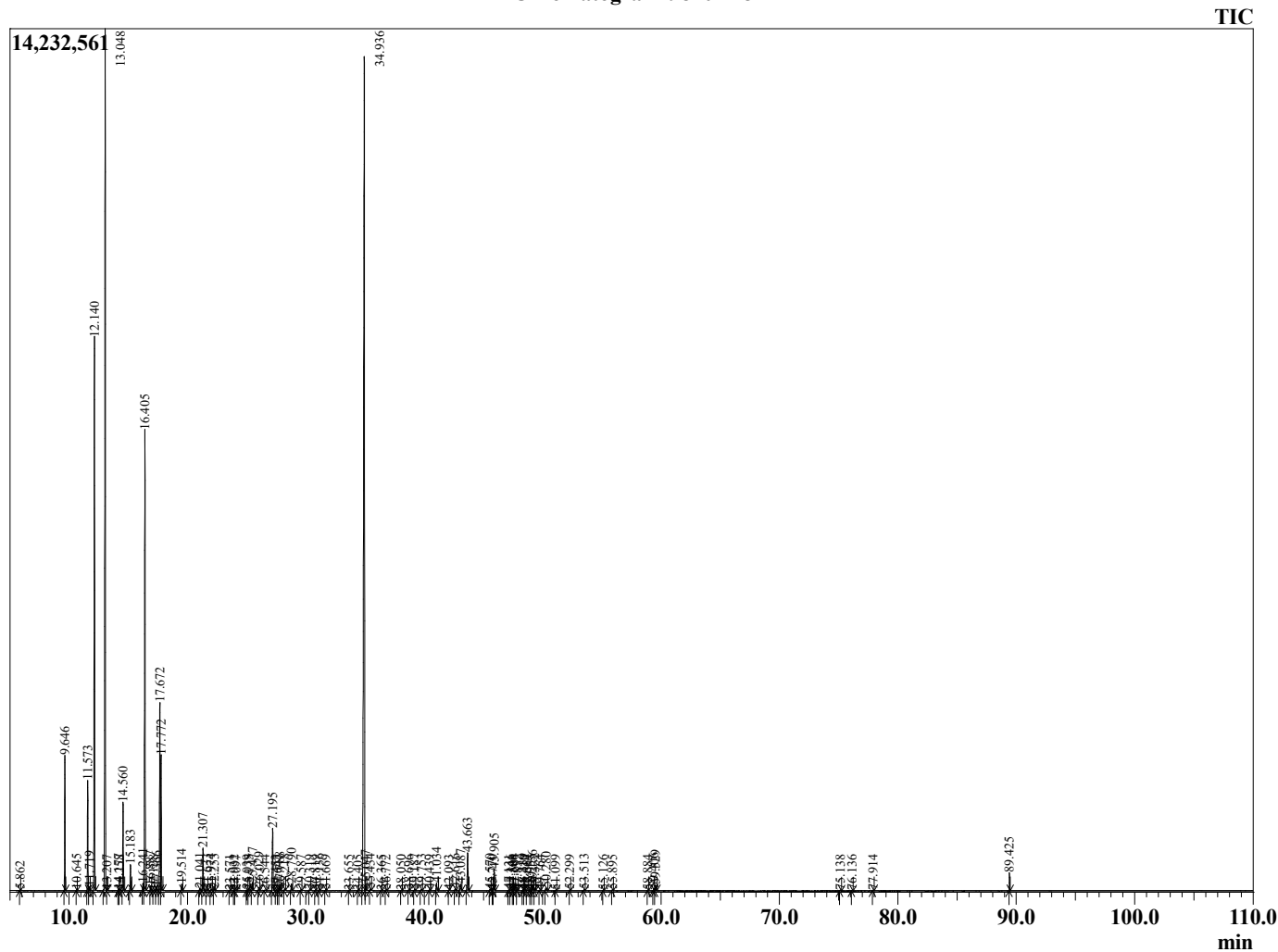
Sample Information

Analyzed by : AG
Analyzed : 5/8/2024 11:24:49 PM
Sample Type : Essential Oil
Sample Name : Fir Needle
Injection Volume : 0.10
Lot Number : 12856
Instrument ID : GC-4

Peak Report TIC

R.Time	Name	Area%
5.862	Toluene	0.01
9.646	Santene	2.41
10.645	3-Ethylidenecycloheptene	0.03
11.573	Tricyclene	2.23
11.719	alpha-Thujene	0.08
12.140	alpha-Pinene	12.06
13.048	Camphene	21.11
13.207	Thuja-2,4(10)diene	0.01
14.177	meta-Cymene	0.03
14.258	Sabinene	0.01
14.560	beta-Pinene	1.92
15.183	Myrcene	0.58
16.241	alpha-Phellandrene	0.17
16.405	delta-3-Carene	11.27
16.887	alpha-Terpinene	0.11
17.128	Unidentified	0.01
17.366	para-Cymene	0.10
17.672	Limonene	4.79
17.772	beta-Phellandrene	3.05
19.514	gamma-Terpinene	0.15
21.041	Terpinolene isomer	0.05
21.307	Terpinolene	1.10
21.633	para-Cymenene	0.04
21.974	Nona-3,5-dien-2-ol	0.05
22.253	Unidentified	0.05
23.571	endo-Fenchol	0.02
23.932	cis-para-Menth-2-en-1-ol	0.01
24.097	alpha-Campholenal	0.02
25.039	trans-Pinocarveol	0.02
25.175	trans-para-Menth-2-en-1-ol	0.02
25.477	Camphor	0.20
26.029	trans-beta-Terpineol	0.08
26.544	alpha-Phellandrene-8-ol	0.03
27.195	Borneol	1.74
27.453	cis-Pinocamphone	0.01
27.647	Unidentified	0.01
27.788	Terpinen-4-ol	0.10
28.218	para-Cymen-8-ol	0.04
28.790	alpha-Terpineol	0.19
29.587	Decanal	0.02
30.319	endo-Fenchyl acetate	0.02
30.819	Unidentified	0.01
31.136	Thymol methyl ether	0.04
31.669	Nojigiku acetate	0.02
33.655	Unidentified	0.01
34.405	Phellandral	0.01
34.936	Bornyl acetate	31.86
35.047	Isobornyl acetate	0.13
35.434	2-Undecanone	0.05
36.365	Car-3-en-2-one	0.02
36.772	Unidentified	0.03
38.050	Unidentified	0.01
38.696	Unidentified	0.02
39.187	Unidentified	0.03
39.753	Neryl acetate	0.04
40.439	Isolene	0.03
41.034	Geranyl acetate	0.23
42.093	Unidentified	0.01
42.616	alpha-Gurjunene	0.05
43.087	Dodecanal	0.29
43.663	beta-Caryophyllene	1.21
45.570	alpha-Himachalene	0.05

Chromatogram 98401-23



This report is provided as a courtesy to our customers for their evaluation only.

R.Time	Name	Area%
45.770	Farnesene isomer	0.01
45.905	alpha-Humulene	0.68
47.131	Dodecanol	0.03
47.346	beta-Chamigrene	0.03
47.508	Tetradec-(7Z)-en-2-one	0.03
47.604	gamma-Himachalene	0.04
47.852	Unidentified	0.01
48.339	beta-Alaskene	0.04
48.410	Unidentified	0.01
48.664	beta-Himachalene	0.03
48.953	trans,trans-alpha-Farnesene	0.01
49.156	beta-Bisabolene	0.17
49.332	cis-gamma-Bisabolene	0.05
49.764	delta-Cadinene	0.02
50.280	trans-gamma-Bisabolene	0.09
51.099	trans-alpha-Bisabolene	0.01
52.299	trans-Nerolidol	0.02
53.513	Caryophyllene oxide	0.04
55.126	Unidentified	0.02
55.895	Selina-6-en-4-ol	0.03
58.884	Unidentified	0.01
59.406	alpha-Bisabolol	0.08
59.529	alpha-Epibisabolol	0.17
75.138	Unidentified	0.03
76.136	Unidentified	0.02
77.914	Manool	0.02
89.425	Unidentified	0.14
		100.00