

Sample Information

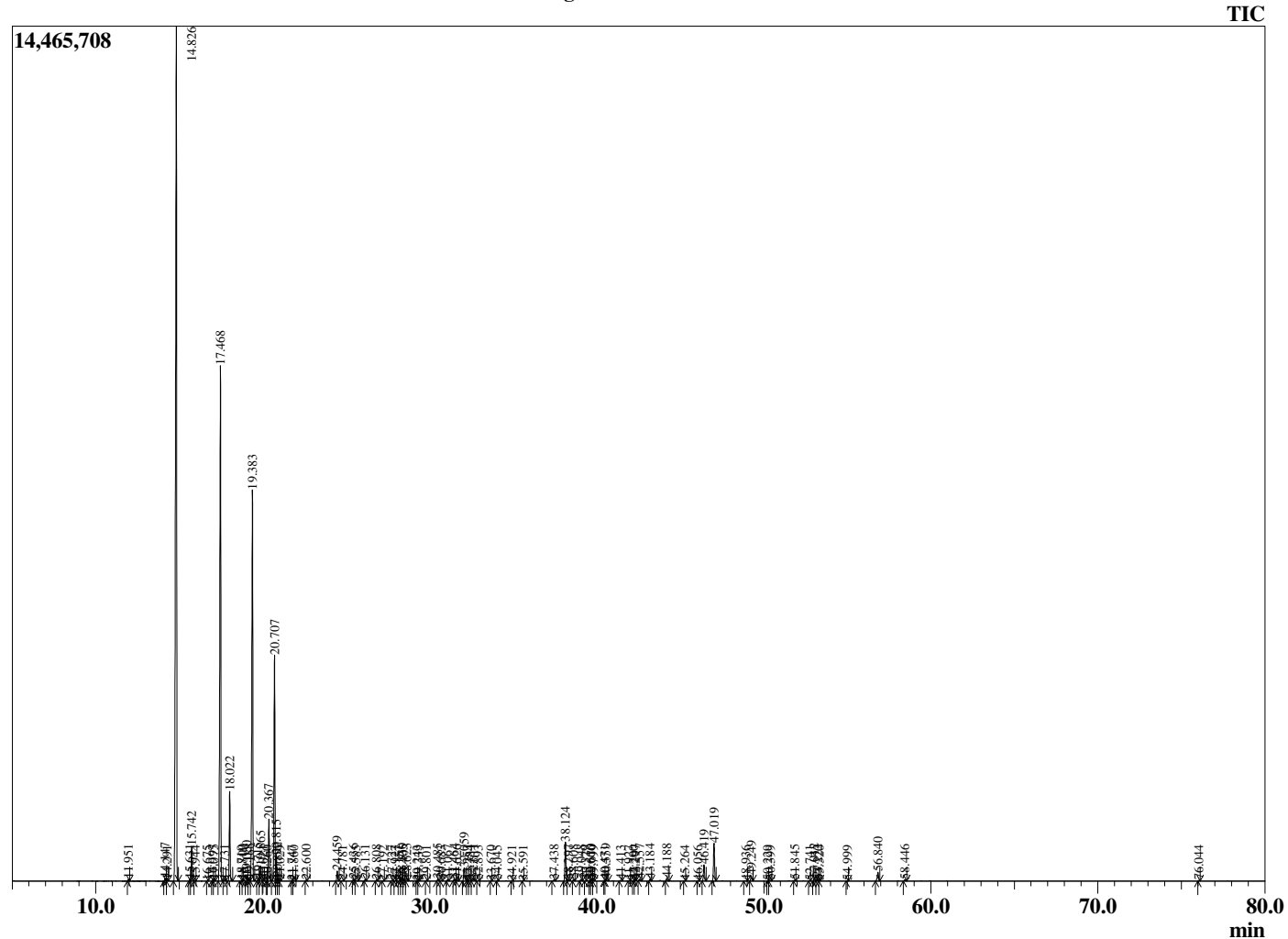
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/7/2021 4:46:44 PM
 Sample Type : Essential Oil
 Sample Name : Pine - Edens Garden
 Sample ID : BB22AV
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
11.951	Santene	0.04
14.147	Tricyclene	0.09
14.291	alpha-Thujene	0.02
14.826	alpha-Pinene	38.91
15.631	alpha-Fenchene	0.05
15.742	Camphene	1.10
15.944	Thuja-2,4(10)diene	0.02
16.675	Unidentified	0.01
16.997	Unidentified	0.04
17.075	Sabinene	0.04
17.468	beta-Pinene	20.64
17.731	Unidentified	0.05
18.022	Myrcene	3.02
18.719	Unidentified	0.02
18.800	Unidentified	0.03
19.030	Pseudolimonene	0.16
19.188	alpha-Phellandrene	0.08
19.383	delta-3-Carene	15.49
19.715	1,4-Cineole	0.11
19.865	alpha-Terpinene	0.51
20.021	meta-Cymene	0.02
20.260	Unidentified	0.02
20.367	para-Cymene	2.23
20.707	Limonene	8.52
20.815	beta-Phellandrene	0.85
20.892	1,8-Cineole	0.10
21.029	(Z)-beta-Ocimene	0.02
21.747	(E)-beta-Ocimene	0.01
21.860	Unidentified	0.01
22.600	gamma-Terpinene	0.03
24.459	Terpinolene	0.37
24.781	para-Cymenene	0.02
25.436	alpha-Pinene oxide	0.06
25.585	Unidentified	0.02
26.131	Unidentified	0.06
26.808	alpha-Fenchol	0.05
27.192	Unidentified	0.01
27.727	cis-Limonene oxide	0.02
27.927	Terpin-3-en-1-ol	0.01
28.157	Nopinone	0.01
28.330	trans-Pinocarveol	0.12
28.405	Epoxyterpinolene	0.04
28.623	trans-Verbenol	0.12
29.243	Unidentified	0.01
29.339	trans-beta-Terpineol	0.01
29.801	Pinocarvone	0.02
30.485	Borneol	0.08
30.683	Unidentified	0.03
31.067	Terpinen-4-ol	0.04
31.464	para-Cymen-8-ol	0.08
31.626	Unidentified	0.04
32.059	alpha-Terpineol	0.61
32.253	Estragole	0.02
32.384	Unidentified	0.02
32.611	Unidentified	0.11
32.893	Verbenone	0.02
33.670	trans-Carveol	0.01
34.045	Unidentified	0.02
34.921	Unidentified	0.02
35.591	Unidentified	0.01
37.438	cis-Ascrinol glycol	0.05
38.124	Bornyl acetate	1.58

Chromatogram Pine - Edens Garden



Comments:

The analysis of this Pine batch sample meets the expected chemical profile for authentic essential oil of *Pinus sylvestris*. 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%
38.297	Isobornyl acetate	0.04
38.608	trans-Ascrinol glycol	0.06
39.048	Unidentified	0.06
39.329	Unidentified	0.02
39.610	Unidentified	0.03
39.670	Unidentified	0.05
39.799	Unidentified	0.02
40.471	Unidentified	0.01
40.559	Unidentified	0.07
41.413	Unidentified	0.03
41.927	Unidentified	0.01
42.200	alpha-Terpinyl acetate	0.02
42.297	alpha-Cubebene	0.03
42.557	alpha-Longipinene	0.08
43.184	Unidentified	0.08
44.188	alpha-Copaene	0.12
45.264	Sativene	0.01
46.056	cis-beta-Caryophyllene	0.01
46.419	Junipene	0.70
47.019	trans-beta-Caryophyllene	1.61
48.936	(E)-beta-Farnesene	0.02
49.249	alpha-Humulene	0.22
50.229	10-beta-H-Cadina-1(6),4-diene	0.01
50.399	trans-Cadina-1(6),4-diene	0.02
51.845	alpha-Murolene	0.03
52.741	gamma-Cadinene	0.01
53.012	delta-Cadinene	0.12
53.222	trans-Calamenene	0.05
53.320	Zonarene	0.01
54.999	Unidentified	0.02
56.840	Caryophyllene oxide	0.46
58.446	Humulene epoxide II	0.05
76.044	Myrcene dimer I	0.02
		100.00