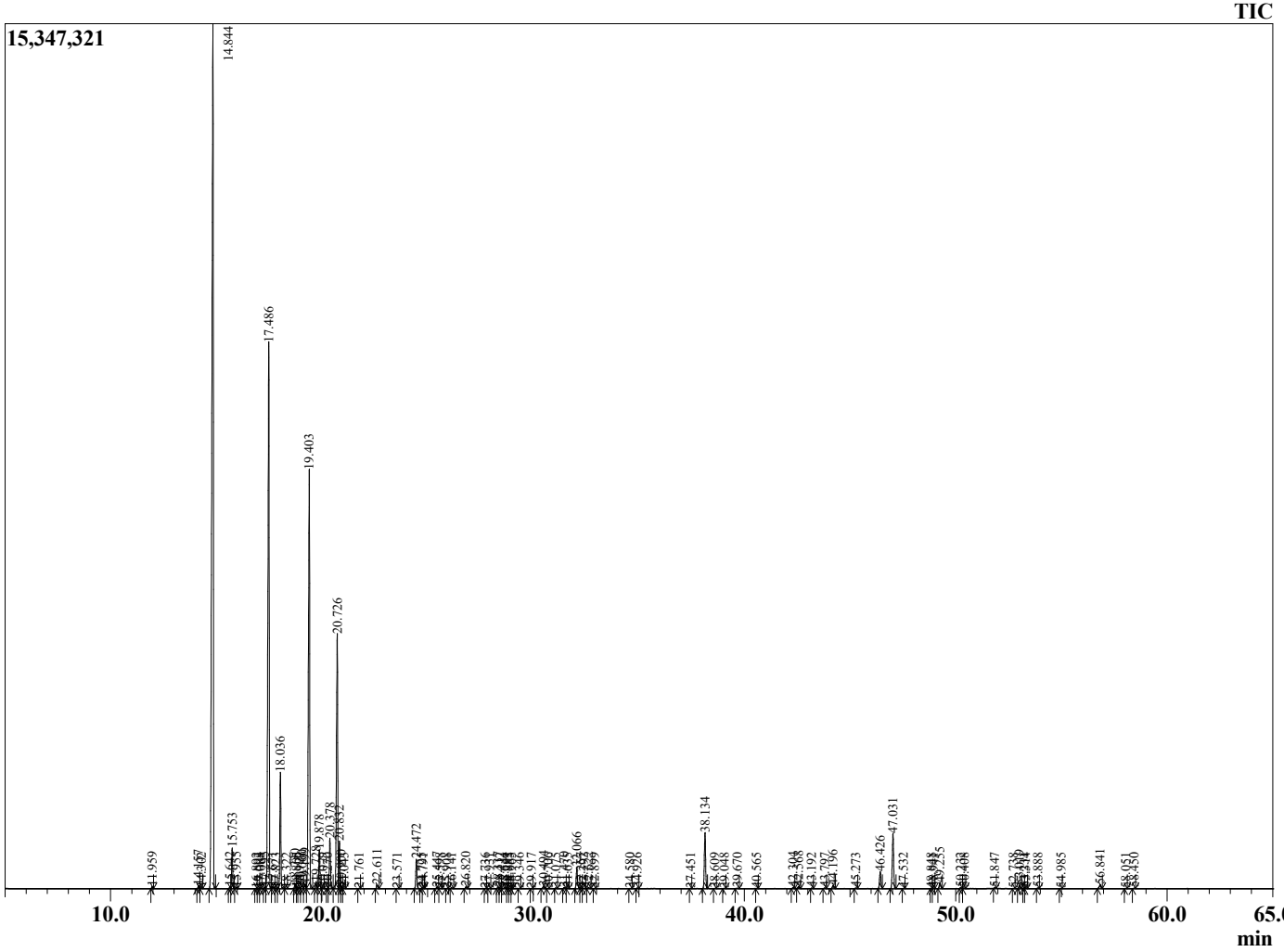
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 3/5/2021 11:18:54 PM
Sample Type : Essential Oil
Sample Name : Pine - Revive
Sample ID : 0349
Injection Volume : 0.10
Instrument ID: : GC-2

Chromatogram Pine - Revive



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.

Peak Report TIC

R.Time	Name	Area%
11.959	Santene	0.04
14.157	Tricyclene	0.09
14.302	alpha-Thujene	0.03
14.844	alpha-Pinene	37.02
15.642	alpha-Fenchene	0.05
15.753	Camphene	1.13
15.955	Thuja-2,4(10)diene	0.03
16.892	Bois de Rose oxide	0.01
17.003	Unidentified	0.01
17.088	Sabinene	0.01
17.295	Unidentified	0.04
17.486	beta-Pinene	20.09
17.671	Unidentified	0.08
17.823	3-para-Menthene	0.01
18.036	Myrcene	3.45
18.322	Unidentified	0.01
18.730	2-Carene	0.12
18.805	1-para-Menthene	0.02
18.929	Unidentified	0.04
19.060	Unidentified	0.14
19.199	alpha-Phellandrene	0.17
19.403	delta-3-Carene	15.50
19.728	1,4-Cineole	0.21
19.878	alpha-Terpinene	1.19
20.029	ortho-Cymene	0.02
20.270	Unidentified	0.02
20.378	para-Cymene	1.59
20.726	Limonene	8.87
20.832	beta-Phellandrene	1.35
20.900	1,8-Cineole	0.06
21.043	cis-beta-Ocimene	0.02
21.761	trans-beta-Ocimene	0.01
22.611	gamma-Terpinene	0.13
23.571	Pinol	0.01
24.472	Terpinolene	0.97
24.725	Fenchone	0.01
24.791	para-Cymenene	0.01
25.447	alpha-Pinene oxide	0.04
25.598	Unidentified	0.01
25.908	Unidentified	0.01
26.141	Unidentified	0.04
26.820	alpha-Fenchol	0.07
27.736	cis-Limonene oxide	0.01
27.931	Terpin-3-en-1-ol	0.02
28.337	trans-Pinocarveol	0.06
28.412	Epoxyterpinolene	0.03
28.644	trans-Verbenol	0.05
28.782	Camphor	0.01
28.885	Unidentified	0.02
28.963	Unidentified	0.01
29.346	trans-beta-Terpineol	0.01
29.917	Isoborneol	0.01
30.494	Borneol	0.10
30.706	Unidentified	0.01
31.075	Terpinen-4-ol	0.02
31.470	para-Cymen-8-ol	0.04
31.635	Unidentified	0.02
32.066	alpha-Terpineol	0.77
32.257	Estragole	0.02
32.392	Unidentified	0.02
32.622	Unidentified	0.04
32.899	Verbenone	0.01

R.Time	Name	Area%
34.580	cis-Carveol	0.01
34.926	Unidentified	0.02
37.451	cis-Ascridol glycol	0.01
38.134	Bornyl acetate	2.02
38.609	trans-Ascridol glycol	0.01
39.048	Unidentified	0.02
39.670	Unidentified	0.02
40.565	Unidentified	0.01
42.304	alpha-Cubebene	0.04
42.568	alpha-Longipinene	0.08
43.192	Unidentified	0.02
43.797	Unidentified	0.02
44.196	alpha-Copaene	0.13
45.273	Sativene	0.02
46.426	Junipene	0.66
47.031	beta-Caryophyllene	2.15
47.532	Unidentified	0.01
48.848	Unidentified	0.01
48.941	trans-beta-Farnesene	0.02
49.255	alpha-Humulene	0.23
50.232	10-beta-H-Cadina-1(6),4-diene	0.03
50.408	trans-Cadina-1(6),4-diene	0.02
51.847	alpha-Muurolene	0.02
52.738	gamma-Cadinene	0.01
53.019	delta-Cadinene	0.12
53.231	trans-Calamenene	0.01
53.314	Zonarene	0.03
53.888	trans-Cadina-1,4-diene	0.02
54.985	Unidentified	0.01
56.841	Caryophyllene oxide	0.19
58.051	Longiborneol	0.01
58.450	Humulene epoxide II	0.02
		100.00