

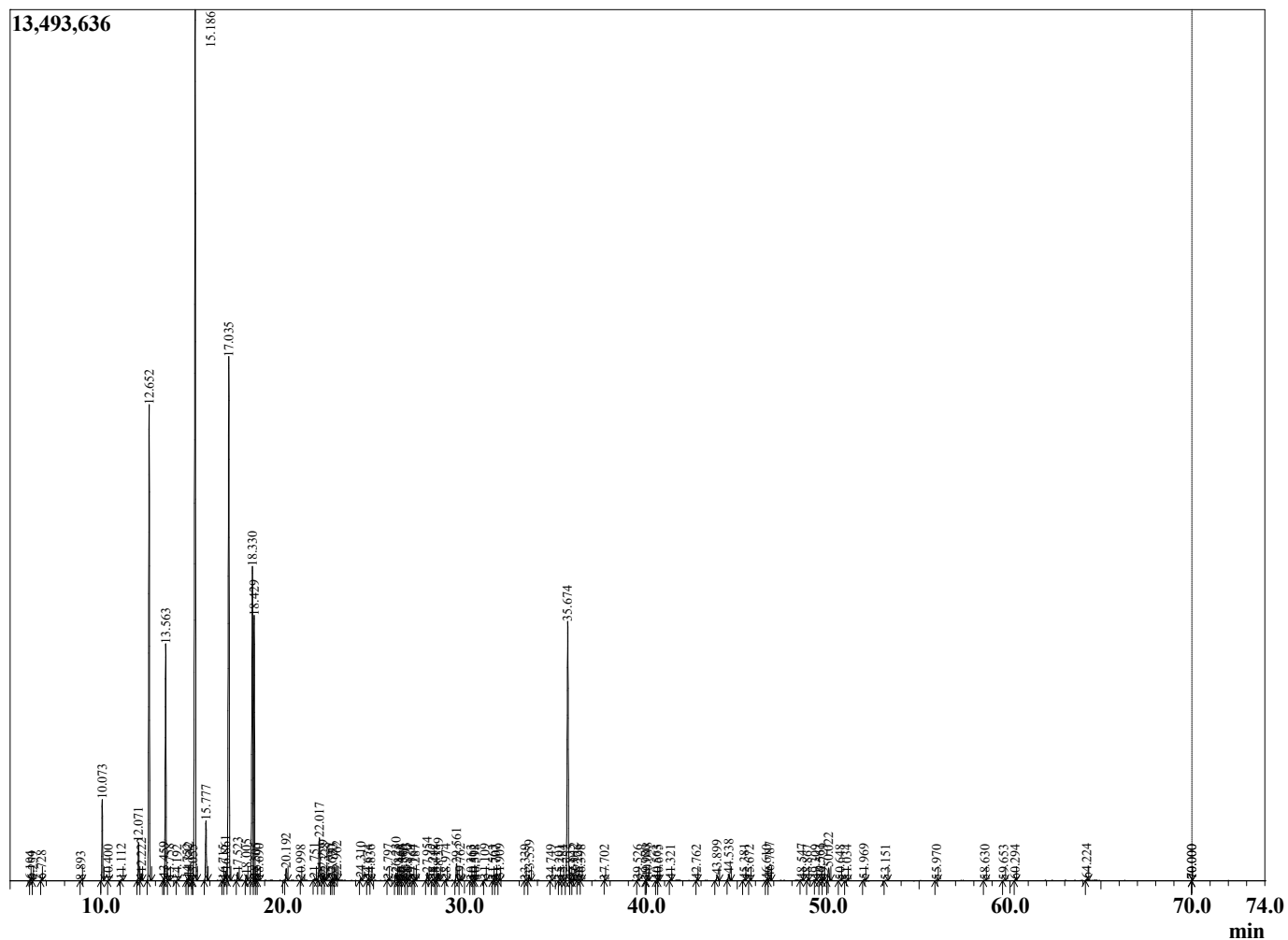
Sample Information

Sample Type : Essential Oil
 Sample Name : Abies balsamea
 Injection Volume : 0.10

Fir Needle Balsam
 Lot# CAF13-FH
 Country: Canada



Chromatogram Abies balsamea



R.Time	Name	Area%
6.104	Toluene	0.01
6.259	Methyl 2-methylbutyrate	0.00
6.728	Hexyl methyl ether	0.02
8.893	Hex-(3Z)-enol	0.01
10.073	Santene	1.79
10.400	4-Methyl methylpentanoate	0.01
11.112	Unidentified	0.02
12.071	Tricyclene	0.93
12.222	alpha-Thujene	0.18
12.652	alpha-Pinene	12.30
13.459	alpha-Fenchene	0.07
13.563	Camphene	6.30
13.758	Thuja-2,4(10)-diene	0.02
14.192	Unidentified	0.01
14.752	meta-Cymene	0.04
14.842	Sabinene	0.09
15.055	Unidentified	0.01
15.186	beta-Pinene	26.83
15.777	Myrcene	1.63
16.715	Pseudolimonene	0.02
16.861	alpha-Phellandrene	0.28
17.035	delta-3-Carene	16.19
17.523	alpha-Terpinene	0.23
18.005	para-Cymene	0.16
18.330	Limonene	10.29
18.429	beta-Phellandrene	7.36
18.505	1,8-Cineole	0.03
18.690	Unidentified	0.02
20.192	gamma-Terpinene	0.35
20.998	trans-Sabinene hydrate	0.01
21.751	Isoterpinolene	0.06
22.017	Terpinolene	1.30
22.229	Fenchone	0.15
22.328	para-Cymenene	0.06
22.690	Unidentified	0.01
22.753	alpha-Campholenal isomer	0.05
22.962	Linalool	0.10
24.310	alpha-Fenchol	0.08
24.674	cis,para-Menth-2-en-1-ol	0.01
24.836	alpha-Campholenal	0.01
25.797	trans-Pinocarveol	0.04
26.230	Camphor	0.24
26.375	Unidentified	0.01
26.466	Unidentified	0.01
26.585	Citronellal	0.02
26.793	trans-beta-Terpineol	0.08
26.870	Unidentified	0.02
27.164	trans-Pinocamphone	0.01
27.287	Pinocarvone	0.01
27.954	Borneol	0.27
28.242	Isopinocamphone	0.03
28.418	Unidentified	0.01
28.559	Terpinen-4-ol	0.25
28.974	Unidentified	0.03
29.561	alpha-Terpineol	0.59
29.762	(E)-Anethole	0.04

R.Time	Name	Area%
30.363	Verbenone	0.01
30.512	Unidentified	0.01
30.598	Unidentified	0.01
31.109	endo-Fenchyl acetate	0.04
31.563	Unidentified	0.01
31.707	Citronellol	0.01
31.909	Thymol methyl ether	0.05
33.339	Unidentified	0.01
33.559	Piperitone	0.15
34.749	Isopulegyl acetate	0.01
35.201	Phellandral	0.01
35.384	neo-Isopulegyl acetate	0.01
35.674	Bornyl acetate	9.23
35.825	Isobornyl acetate	0.02
36.012	Thymol	0.08
36.226	2-Undecanone	0.01
36.398	Unidentified	0.01
37.702	Unidentified	0.00
39.526	Unidentified	0.01
39.980	Unidentified	0.01
40.048	alpha-Longipinene	0.09
40.563	Unidentified	0.01
40.675	Unidentified	0.01
41.321	alpha-Ylangene	0.02
42.762	Sativene	0.01
43.899	Longifolene	0.21
44.538	beta-Caryophyllene	0.24
45.381	Unidentified + trans-alpha-Bergamotene	0.04
45.672	Unidentified	0.01
46.610	(E)-beta-Farnesene	0.02
46.787	alpha-Humulene	0.11
48.547	trans-beta-Bergamotene	0.04
48.867	beta-Selinene	0.02
49.309	alpha-Selinene	0.01
49.561	beta-Himachalene	0.04
49.729	Unidentified	0.02
50.022	beta-Bisabolene	0.46
50.648	delta-Cadinene	0.02
51.034	Citronellyl butyrate	0.02
51.969	(E)-alpha-Bisabolene	0.05
53.151	(E)-Nerolidol	0.02
55.970	Cedrol	0.02
58.630	Unidentified	0.01
59.653	Unidentified	0.02
60.294	epi-alpha-Bisabolol	0.02
64.224	Myristic acid	0.05
70.000	Unidentified	0.01
70.000	Unidentified	0.01
85.030	Unidentified	0.01
		100.00