

Sample Information

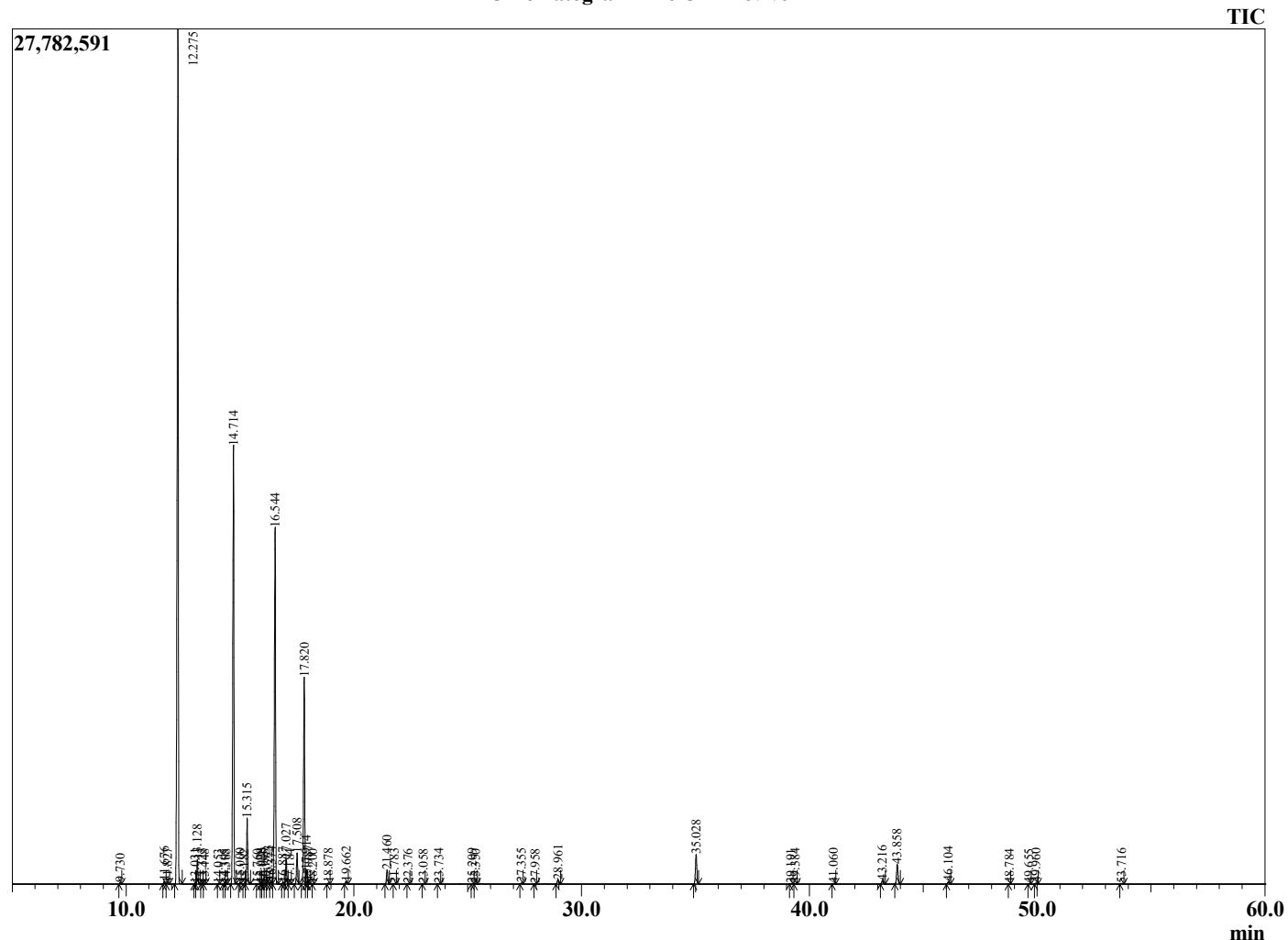
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/12/2022 1:09:07 AM
 Sample Type : Essential Oil
 Sample Name : Pine Oil - Revive
 Sample ID : 1D
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
9.730	Santene	0.05
11.676	Tricyclene	0.11
11.827	alpha-Thujene	0.05
12.275	alpha-Pinene	40.70
13.031	alpha-Fenchene	0.03
13.128	Camphene	0.99
13.323	Thuja-2,4(10)-diene	0.02
13.448	Unidentified	0.01
14.053	Unidentified	0.01
14.305	meta-Cymene	0.01
14.388	Sabinene	0.02
14.714	beta-Pinene	19.83
15.000	Camphene analogue	0.04
15.182	para-Menth-3-ene	0.02
15.315	Myrcene	2.77
15.760	Unidentified	0.01
15.928	2-Carene	0.02
16.000	para-Menth-1-ene	0.03
16.115	Unidentified	0.02
16.223	Pseudolimonene	0.15
16.374	alpha-Phellandrene	0.12
16.544	delta-3-Carene	17.31
16.887	1,4-Carene	0.07
17.027	alpha-Terpinene	1.14
17.184	ortho-Cymene	0.02
17.508	para-Cymene	1.47
17.820	Limonene	9.53
17.914	beta-Phellandrene	0.59
17.987	1,8-Cineole	0.13
18.200	cis-beta-Ocimene	0.01
18.878	trans-beta-Ocimene	0.04
19.662	gamma-Terpinene	0.13
21.460	Terpinolene	0.69
21.783	para-Cymenene	0.03
22.376	alpha-Pinene oxide	0.02
23.058	Unidentified	0.02
23.734	alpha-Fenchol	0.03
25.209	trans-Pinocarveol	0.02
25.350	Epoxyterpinolene	0.02
27.355	Borneol	0.05
27.958	Terpinen-4-ol	0.01
28.961	alpha-Terpineol	0.26
35.028	Bornyl acetate	1.67
39.191	alpha-Cubebene	0.03
39.384	alpha-Longipinene	0.03
41.060	alpha-Copaene	0.04
43.216	Longifolene	0.22
43.858	beta-Caryophyllene	1.17
46.104	alpha-Humulene	0.14
48.784	alpha-Murolene	0.01
49.655	gamma-Cadinene	0.01
49.960	delta-Cadinene	0.06
53.716	Caryophyllene oxide	0.04
		100.00

Chromatogram Pine Oil - 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.