

Sample Information

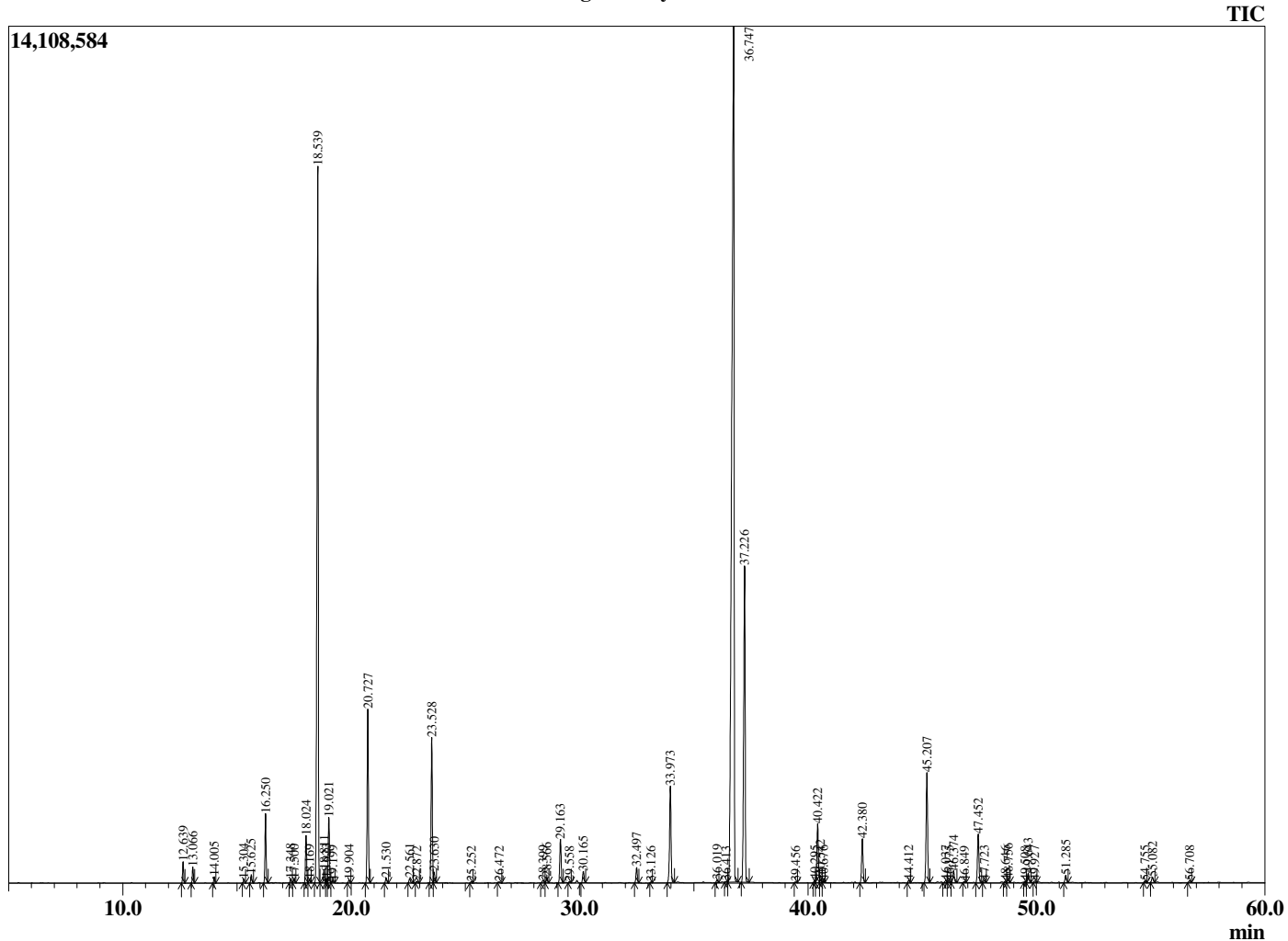
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 4/25/2020 2:56:59 PM
 Sample Type : Essential Oil
 Sample Name : Thyme - Barefut
 Sample ID : 0107
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
12.639	alpha-Thujene	0.44
13.066	alpha-Pinene	0.34
14.005	Camphene	0.14
15.304	Sabinene	0.09
15.625	beta-Pinene + 1-Octen-3-ol	0.19
16.250	Myrcene	1.55
17.348	alpha-Phellandrene	0.09
17.500	delta-3-Carene	0.08
18.024	alpha-Terpinene	1.11
18.169	ortho-Cymene	0.09
18.539	para-Cymene	19.61
18.811	Limonene	0.33
18.923	beta-Phellandrene	0.09
19.021	1,8-cineole	1.58
19.199	cis-beta-Ocimene	0.07
19.904	trans-beta-Ocimene	0.08
20.727	gamma-Terpinene	4.27
21.530	trans-Sabinene hydrate	0.14
22.561	Terpinolene	0.13
22.872	para-Cymenene	0.05
23.528	Linalool	3.75
23.630	cis-Sabinene hydrate	0.28
25.252	cis-para-Menth-2-en-1-ol	0.03
26.472	trans-para-Menth-2-en-1-ol	0.03
28.399	Thuj-3-en-2-one (Umbellulone)	0.08
28.566	Borneol	0.14
29.163	Terpinen-4-ol	1.20
29.558	para-Cymen-8-ol	0.03
30.165	alpha-Terpineol	0.33
32.497	Thymol methyl ether	0.43
33.126	Carvacrol methyl ether	0.02
33.973	Geraniol	2.82
36.019	Isothymol	0.08
36.413	Bornyl acetate	0.02
36.747	Thymol	40.96
37.226	Carvacrol	9.55
39.456	Unidentified	0.02
40.295	Thymol acetate	0.06
40.422	alpha-Terpinyl acetate	1.71
40.542	gamma-Terpinyl acetate	0.21
40.676	Eugenol	0.04
42.380	alpha-Copaene	1.28
44.412	alpha-Gurjunene	0.07
45.207	beta-Caryophyllene	3.30
46.037	trans-alpha-Bergamotene	0.07
46.175	Unidentified	0.06
46.374	Aromadendrene	0.36
46.849	alpha-Guaiene	0.04
47.452	alpha-Humulene	1.48
47.723	Alloaromadendrene	0.06
48.646	trans-Cadina-1(6),4-diene	0.05
48.756	Unidentified	0.10
49.508	Unidentified	0.03
49.643	Viridiflorene (Ledene)	0.29
49.927	Bicyclogermacrene	0.05
51.285	delta-Cadinene	0.22
54.755	Spathulenol	0.05
55.082	Caryophyllene oxide	0.18
56.708	Humulene epoxide II	0.06
		100.00

Chromatogram Thyme - Barefut



Comments:

The analysis of this Thyme Oil batch sample meets the expected chemical profile for authentic essential oil of *Thymus vulgaris*. 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.