

Sample Information

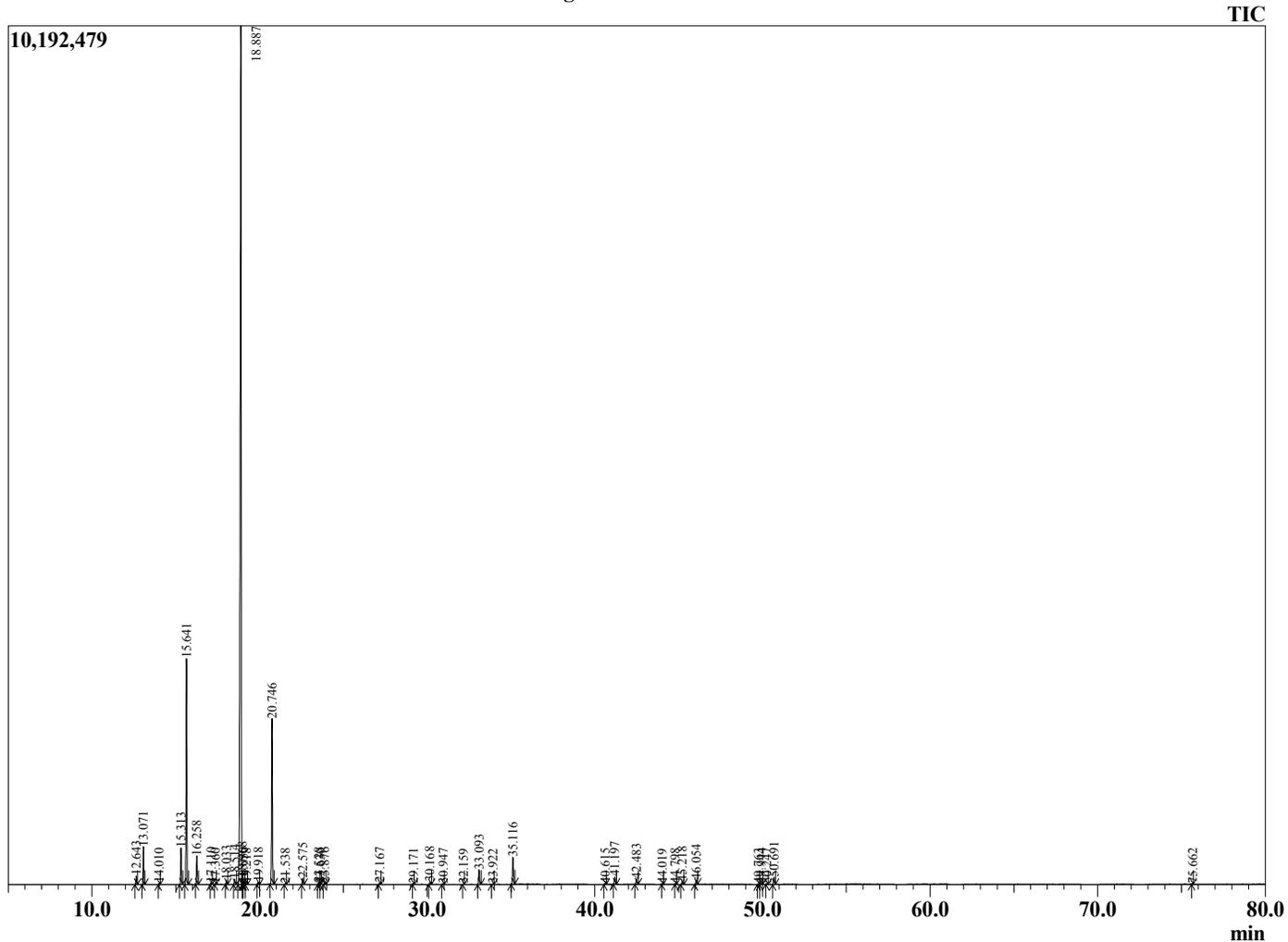
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 4/8/20 8:46:48 PM
 Sample Type : Essential Oil
 Sample Name : Lemon Oil - Barefut
 Sample ID : 0112
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
12.643	alpha-Thujene	0.43
13.071	alpha-Pinene	1.88
14.010	Camphene	0.06
15.313	Sabinene	1.95
15.641	beta-Pinene	12.10
16.258	Myrcene	1.50
17.110	Octanal	0.08
17.360	alpha-Phellandrene	0.04
18.033	alpha-Terpinene	0.21
18.514	para-Cymene	0.29
18.887	Limonene	65.38
18.968	beta-Phellandrene	0.29
19.050	1,8-Cineole	0.08
19.218	cis-beta-Ocimene	0.06
19.918	trans-beta-Ocimene	0.11
20.746	gamma-Terpinene	9.73
21.538	trans-Sabinene hydrate	0.04
22.575	Terpinolene	0.38
23.528	Linalool	0.10
23.630	cis-Sabinene hydrate	0.02
23.876	Nonanal	0.10
27.167	Citronellal	0.09
29.171	Terpinen-4-ol	0.03
30.168	alpha-Terpineol	0.15
30.947	Decanal	0.05
32.159	Nerol	0.01
33.093	Neral	0.95
33.922	Geraniol	0.01
35.116	Geranial	1.72
40.615	Citronellyl acetate	0.05
41.197	Neryl acetate	0.51
42.483	Geranyl acetate	0.38
44.019	Unidentified	0.01
44.798	cis-alpha-Bergamotene	0.02
45.218	beta-Caryophyllene	0.20
46.054	trans-alpha-Bergamotene	0.33
49.763	Valencene	0.04
49.944	Bicyclogermacrene	0.05
50.247	cis-alpha-Bisabolene	0.03
50.691	beta-Bisabolene	0.51
75.662	Citropten	0.03
		100.00

Chromatogram Lemon Oil - Barefut



Comments:

The analysis of this Lemon, Italy batch sample meets the expected chemical profile for authentic essential oil of *Citrus limon*. 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.