

Sample Information

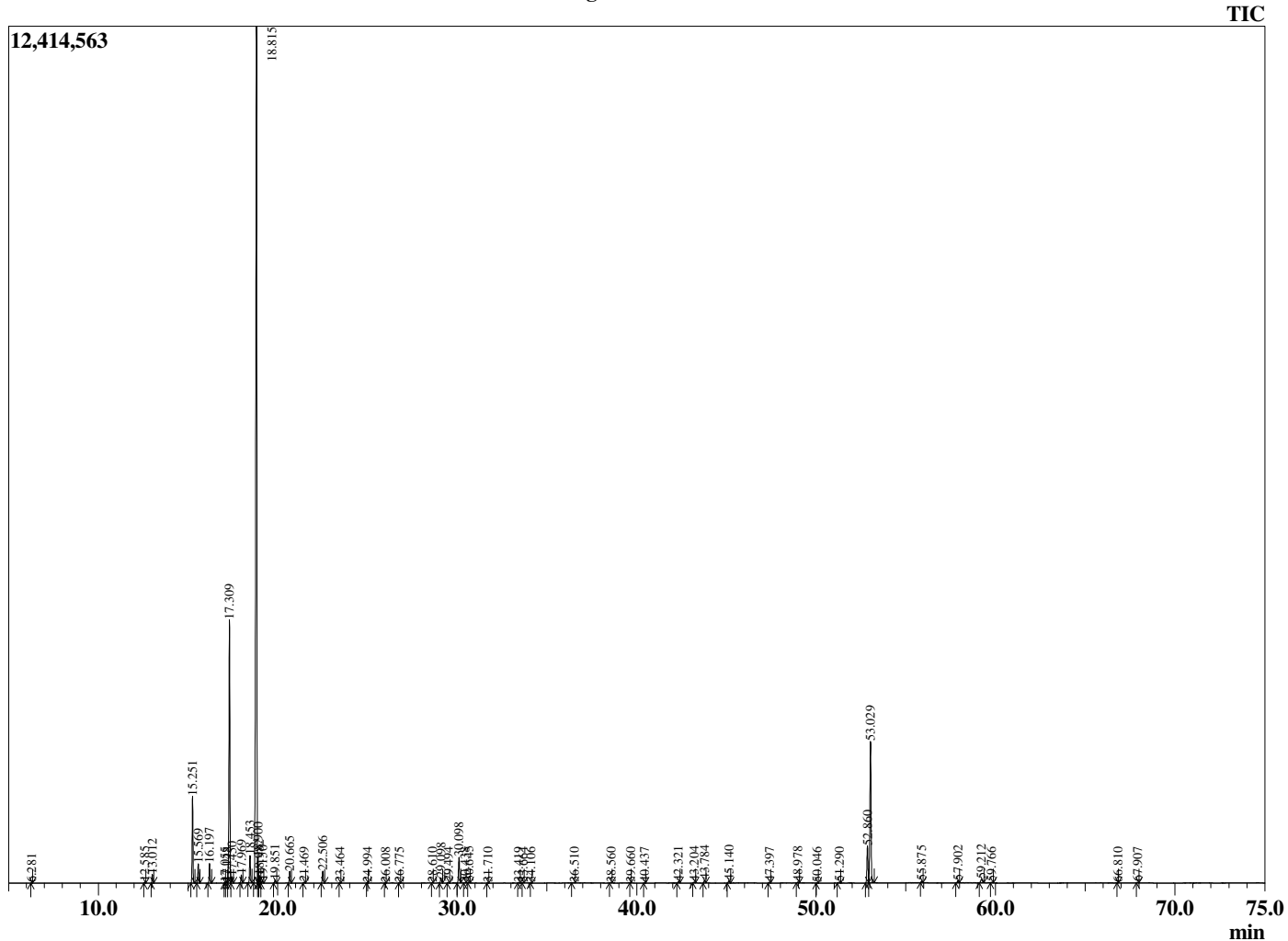
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/18/2020 4:15:38 AM
 Sample Type : Essential Oil
 Sample Name : Elemi - Barefut
 Sample ID : 0105
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
6.281	Toluene	0.01
12.585	alpha-Thujene	0.06
13.012	alpha-Pinene	0.40
15.251	Sabinene	4.32
15.569	beta-Pinene	0.99
16.197	Myrcene	1.00
17.055	Octanal	0.02
17.148	Pseudolimonene	0.04
17.309	alpha-Phellandrene	14.17
17.450	delta-3-Carene	0.34
17.969	alpha-Terpinene	0.43
18.453	para-Cymene	1.54
18.815	Limonene	57.87
18.900	beta-Phellandrene	1.07
18.982	1,8-Cineole	0.36
19.150	cis-beta-Ocimene	0.11
19.851	trans-beta-Ocimene	0.17
20.665	gamma-Terpinene	0.64
21.469	trans-Sabinene hydrate	0.06
22.506	Terpinolene	0.71
23.464	Linalool	0.01
24.994	trans-p-Mentha-2,8-dienol	0.01
26.008	Unidentified	0.02
26.775	Camphor	0.02
28.610	Unidentified	0.01
29.098	Terpinen-4-ol	0.32
29.494	para-Cymen-8-ol	0.04
30.098	alpha-Terpineol	1.56
30.438	Unidentified	0.02
30.645	alpha-Phellandrene epoxide	0.07
31.710	trans-Carveol	0.02
33.419	Carvone	0.02
33.664	Unidentified	0.02
34.106	Piperitone	0.01
36.510	Unidentified	0.02
38.560	Unidentified	0.03
39.660	delta-Elementene	0.01
40.437	alpha-Cubebene	0.02
42.321	alpha-Copaene	0.08
43.204	beta-Elementene	0.05
43.784	Methyleugenol	0.18
45.140	beta-Caryophyllene	0.16
47.397	alpha-Humulene	0.06
48.978	Germacrene D	0.06
50.046	alpha-Murolene	0.02
51.290	Unidentified	0.08
52.860	Elemicin	2.41
53.029	Elemol	9.69
55.875	Guaiol	0.11
57.902	gamma-Eudesmol	0.14
59.212	alpha-Eudesmol	0.32
59.766	Bulnesol	0.04
66.810	Phellandrene dimer	0.02
67.907	Unidentified	0.04
		100.00

Chromatogram Elemi - Barefut



Comments:

The analysis of this Elemi batch sample meets the expected chemical profile for authentic essential oil of *Canarium luzonicum*. 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.