

Sample Information

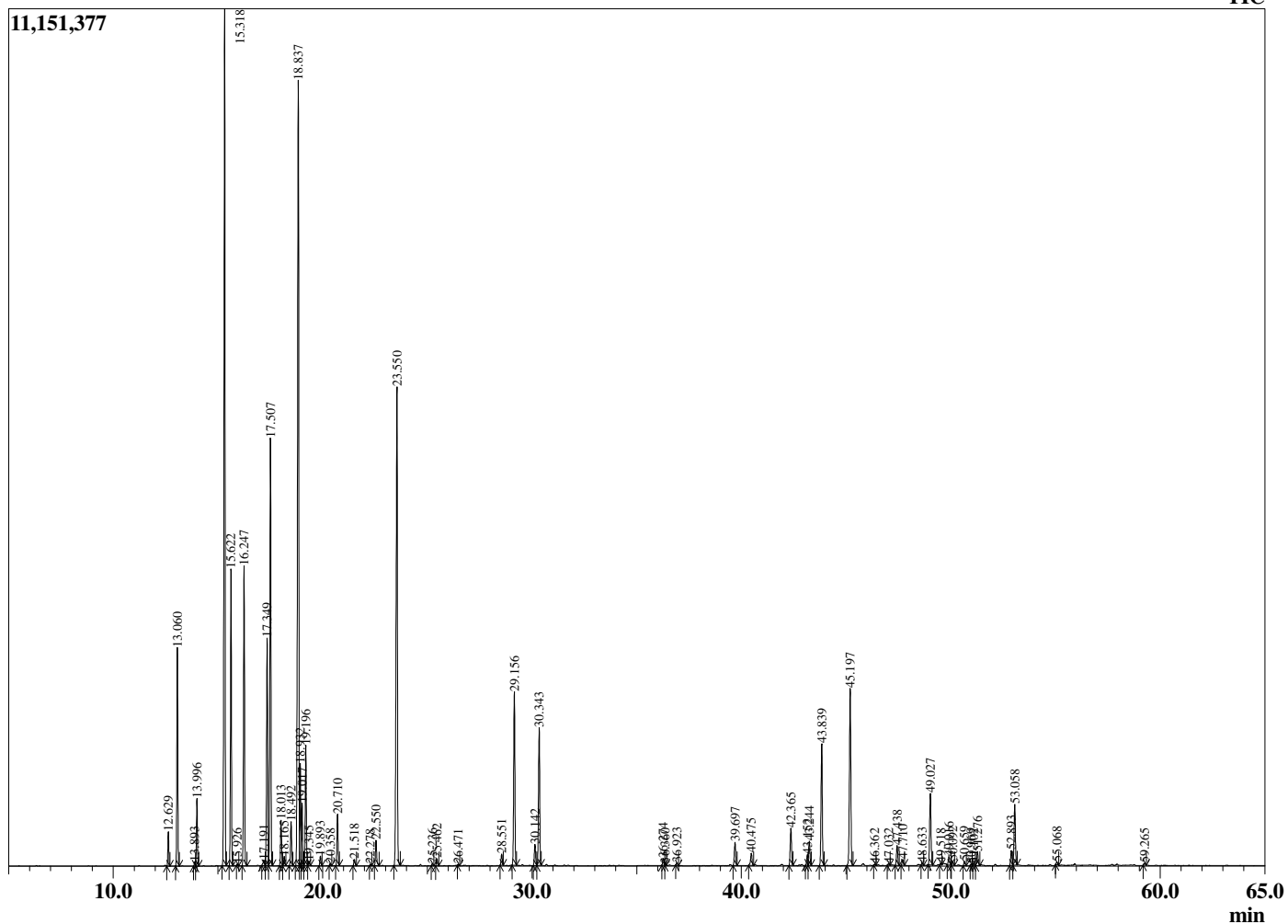
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 4/25/2020 9:02:51 AM  
 Sample Type : Essential Oil  
 Sample Name : Ravensara aromatica - Barefuf  
 Sample ID : 0104  
 Injection Volume : 0.10  
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
12.629	alpha-Thujene	0.53
13.060	alpha-Pinene	3.53
13.893	alpha-Fenchene	0.07
13.996	Camphene	1.12
15.318	Sabinene	15.61
15.622	beta-Pinene	4.89
15.926	Unidentified	0.03
16.247	Myrcene	5.14
17.191	Pseudolimonene	0.13
17.349	alpha-Phellandrene	4.24
17.507	delta-3-Carene	7.41
18.013	alpha-Terpinene	0.81
18.165	ortho-Cymene	0.16
18.492	para-Cymene	0.81
18.837	Limonene	16.72
18.932	beta-Phellandrene	1.60
19.017	1,8-Cineole	1.05
19.196	cis-beta-Ocimene	2.14
19.345	Unidentified	0.08
19.893	trans-beta-Ocimene	0.17
20.358	Unidentified	0.04
20.710	gamma-Terpinene	0.92
21.518	trans-Sabinene hydrate	0.13
22.278	Isoterpinolene	0.02
22.550	Terpinolene	0.52
23.550	Linalool	10.61
25.236	cis-para-Menth-2-en-1-ol	0.04
25.462	allo-Ocimene	0.13
26.471	trans-para-Menth-2-en-1-ol	0.02
28.551	Borneol	0.22
29.156	Terpinen-4-ol	3.51
30.142	alpha-Terpineol	0.45
30.343	Estragole	2.83
36.274	Bornyl acetate	0.16
36.360	(E)-Anethole	0.03
36.923	Dihydroedulan I	0.06
39.697	delta-Elementene	0.52
40.475	alpha-Cubebene	0.30
42.365	alpha-Copaene	0.85
43.152	beta-Cubebene	0.23
43.244	beta-Elementene	0.55
43.839	Methyleugenol	2.59
45.197	beta-Caryophyllene	4.18
46.362	Aromadendrene	0.02
47.032	cis-Murrola-3,5-diene	0.03
47.438	alpha-Humulene	0.44
47.710	Alloaromadendrene	0.12
48.633	trans-Cadina-1(6),4-diene	0.05
49.027	Germacrene D	1.62
49.518	beta-Selinene	0.04
49.916	Bicyclogermacrene	0.19
50.092	alpha-Muurolole	0.09
50.659	beta-Bisabolene	0.09
50.969	gamma-Cadinene	0.02
51.102	Cubebol	0.03
51.276	delta-Cadinene	0.31
52.893	Elemicin	0.32
53.058	Elemol	1.38
55.068	Caryophyllene oxide	0.07
59.265	alpha-Eudesmol	0.05
		100.00

Chromatogram Ravensara aromatica - Barefuf



Comments:

The analysis of this Ravensara aromatica batch sample meets the expected chemical profile for authentic essential oil of *Ravensara aromatica*. 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.