

Sample Information

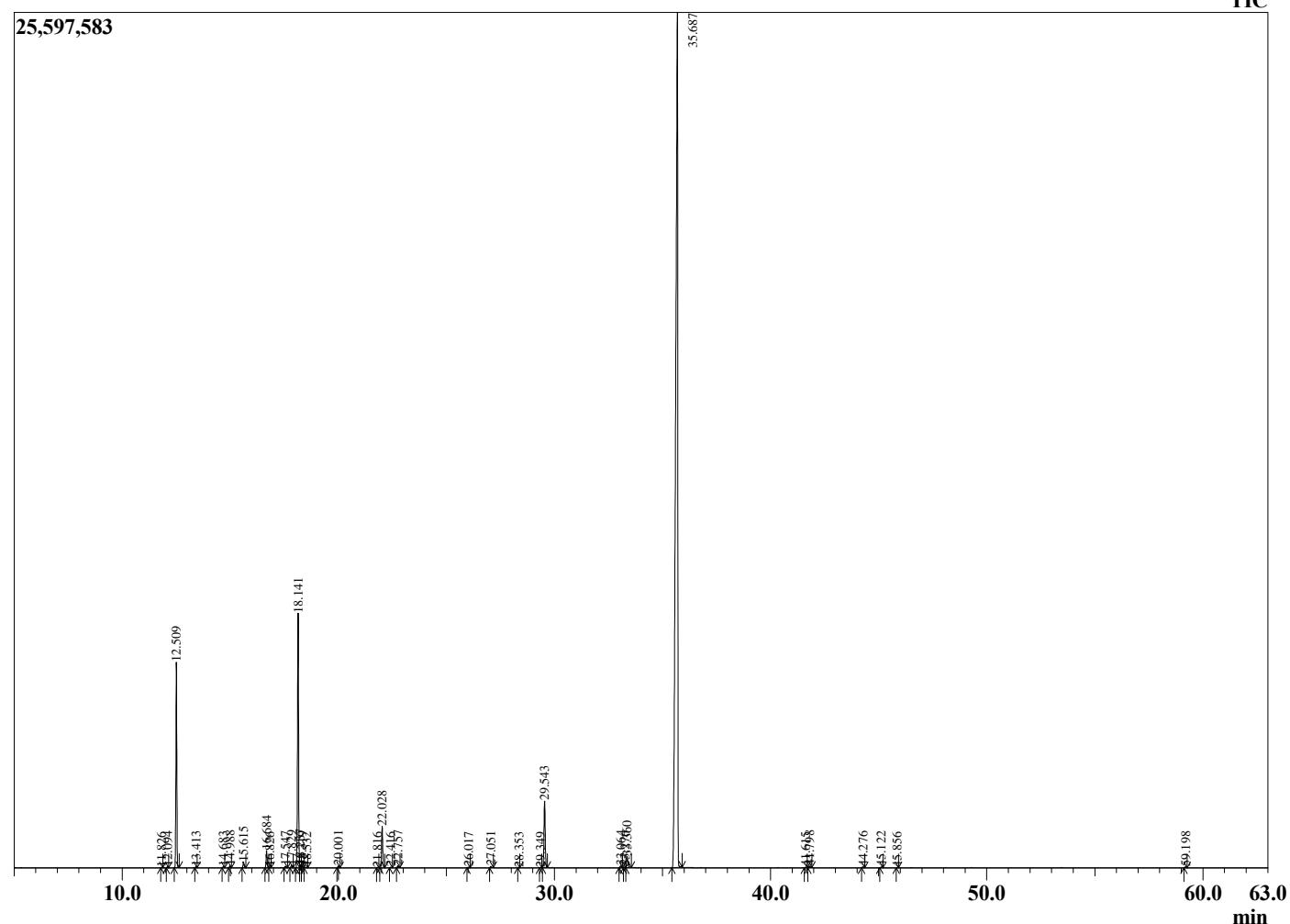
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 12/21/2020 7:44:21 PM
 Sample Type : Essential Oil
 Sample Name : Fennel Oil-Barefut
 Sample ID : 0106
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
11.826	Hashishene	0.01
12.094	alpha-Thujene	0.04
12.509	alpha-Pinene	7.73
13.413	Camphene	0.04
14.683	Sabinene	0.04
14.988	beta-Pinene	0.08
15.615	Myrcene	0.23
16.684	alpha-Phellandrene	0.73
16.826	delta-3-Carene	0.02
17.547	para-methyl-Anisole	0.07
17.829	para-Cymene	0.09
18.141	Limonene	11.21
18.237	beta-Phellandrene	0.12
18.319	1,8-Cineole	0.06
18.532	(Z)-beta-Ocimene	0.02
20.001	gamma-Terpinene	0.08
21.816	Terpinolene	0.01
22.028	Fenchone	1.93
22.416	Methyl benzoate	0.02
22.757	Linalool	0.09
26.017	Camphor	0.03
27.051	Benzyl acetate	0.06
28.353	Terpinen-4-ol	0.01
29.349	alpha-Terpineol	0.01
29.543	Estragole	3.34
33.064	Linalyl acetate	0.10
33.276	(Z)-Anethole	0.04
33.360	para-Anisaldehyde	0.61
35.687	(E)-Anethole	72.93
41.615	Geranyl acetate	0.02
41.798	Amisyl methyl ketone	0.09
44.276	trans-beta-Caryophyllene	0.04
45.122	trans-alpha-Bergamotene	0.03
45.856	(E)-Cinnamyl acetate	0.01
59.198	Unidentified	0.04
		100.00

Chromatogram Fennel Oil-Barefut



Comments:

The analysis of this Fennel, Sweet batch sample meets the expected chemical profile for authentic essential oil of *Foeniculum vulgare*. 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.