

Sample Information

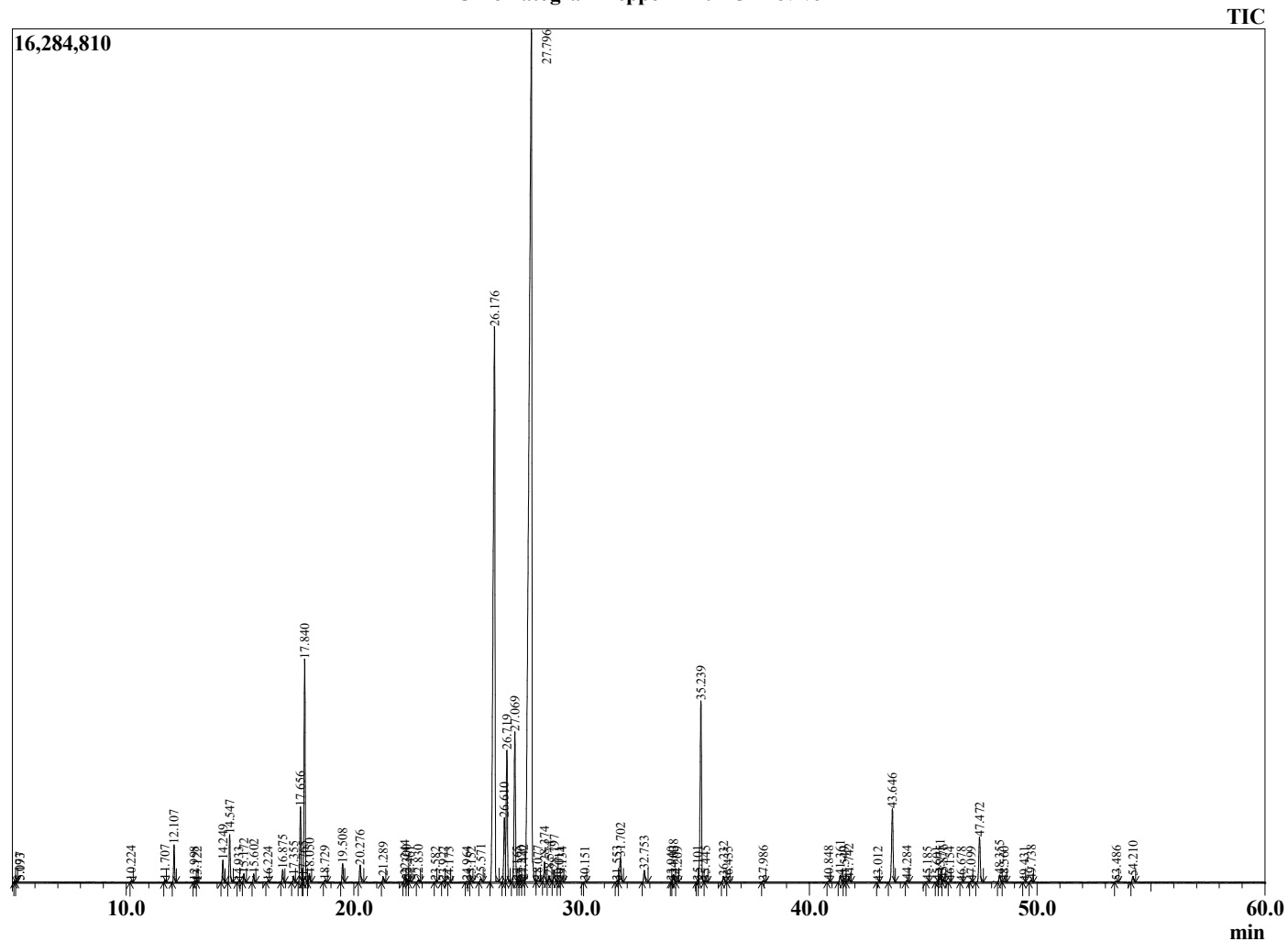
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 05/21/2024 10:13:12 PM
 Sample Type : Essential Oil
 Sample Name : Peppermint EO
 Sample ID : 3AF
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
3.989	3-Methylbutanal	0.02
4.091	2-Methylbutanal	0.02
5.097	1-Pentanol	0.01
5.173	2-Methylbutanol	0.01
10.224	2,5-Diethyltetrahydrofuran	0.03
11.707	alpha-Thujene	0.04
12.107	alpha-Pinene	0.70
12.998	Camphene	0.02
13.122	3-Methylcyclohexanone	0.01
14.249	Sabinene	0.44
14.547	beta-Pinene	1.05
14.933	3-Octanone	0.01
15.172	Myrcene	0.18
15.602	3-Octanol	0.17
16.224	alpha-Phellandrene	0.02
16.875	alpha-Terpinene	0.27
17.355	para-Cymene	0.14
17.656	Limonene	1.71
17.765	beta-Phellandrene	0.05
17.840	1,8-Cineole	5.08
18.050	cis-beta-Ocimene	0.18
18.729	trans-beta-Ocimene	0.05
19.508	gamma-Terpinene	0.43
20.276	trans-Sabinene hydrate	0.42
21.289	Terpinolene	0.12
22.244	Linalool	0.17
22.300	Unidentified	0.04
22.461	2-Methylbutyl-2-methylbutyrate	0.05
22.830	2-Methylbutyl isovalerate	0.06
23.582	3-Octyl acetate	0.01
23.922	cis-para-Menth-2-en-1-ol	0.03
24.173	allo-Ocimene	0.01
24.964	trans-Sabinol	0.02
25.152	Unidentified	0.02
25.571	Isopulegol	0.09
26.176	Menthone	19.88
26.610	Menthofuran	1.64
26.719	Isomenthone	3.26
27.069	Neomenthol	3.98
27.165	Unidentified	0.02
27.370	Unidentified	0.03
27.442	trans-Isopulegone	0.07
27.796	Menthol	47.22
28.077	Unidentified	0.03
28.374	Isomenthol	0.48
28.574	Neoisomenthol	0.15
28.797	alpha-Terpineol	0.31
29.011	Unidentified	0.02
29.134	Unidentified	0.01
30.151	Unidentified	0.02
31.553	cis-3-Hexenyl isovalerate	0.03
31.702	Pulegone	0.64
32.753	Piperitone	0.31
33.940	Unidentified	0.01
34.038	Neomenthyl acetate	0.21
34.209	Unidentified	0.01
35.101	Unidentified	0.03
35.239	Menthyl acetate	4.98
35.445	Unidentified	0.03
36.232	Isomenthyl acetate	0.16
36.435	Isopulegol acetate	0.01
37.986	delta-Elementene	0.05

Chromatogram Peppermint EO- Revive



Comments:

The analysis of this Peppermint EO batch sample meets the expected chemical profile for authentic essential oil of *Mentha piperita*. 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.

R.Time	Name	Area%
40.848	alpha-Copaene	0.03
41.361	beta-Bourbonene	0.19
41.549	alpha-Bourbonene	0.02
41.742	beta-Elemene	0.09
43.012	Unidentified	0.01
43.646	beta-Caryophyllene	2.13
44.284	beta-Copaene	0.05
45.185	Isogermacrene D	0.02
45.601	trans-Cadina-1(6),4-diene	0.02
45.751	trans-beta-Farnesene	0.21
45.876	alpha-Humulene	0.08
46.154	Alloaromodendrene	0.01
46.678	Germacrene D	0.01
47.099	gamma-Murolene	0.02
47.472	trans-Muurolo-4(14),5-diene	1.29
48.355	Bicyclogermacrene	0.20
48.560	alpha-Murolene	0.03
49.431	gamma-Cadinene	0.01
49.738	delta-Cadinene	0.06
53.486	Caryophyllene oxide	0.04
54.210	Viridiflorol	0.17
		100.00