

Sample Information

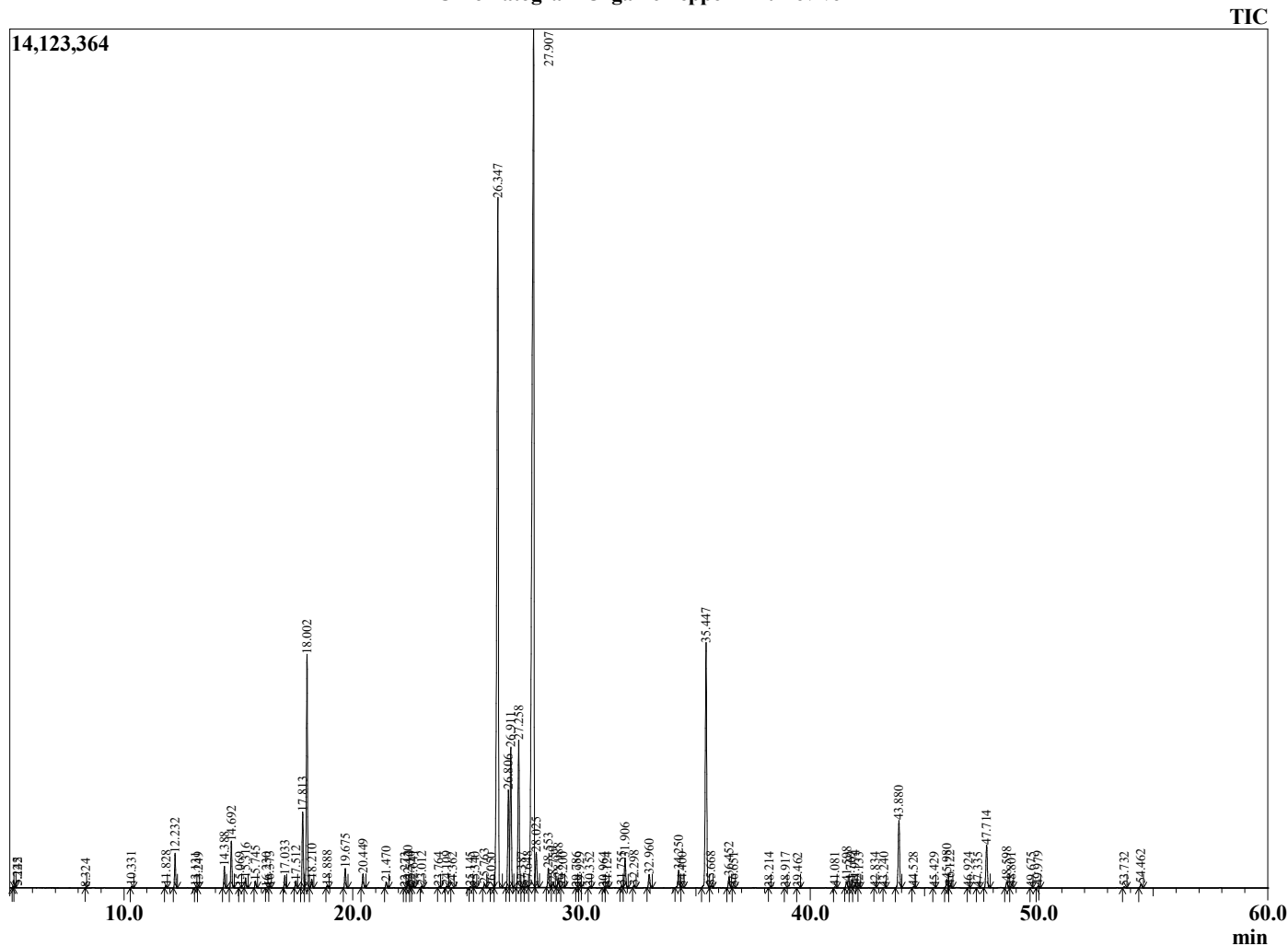
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 12/2/2022 4:45:44 PM
 Sample Type : Essential Oil
 Sample Name : Organic Peppermint Revive
 Sample ID : 4C
 Injection Volume : 0.10
 Instrument ID : GC-4



Peak Report TIC

R.Time	Name	Area%
4.024	3-Methylbutanal	0.02
4.131	2-Methylbutanal	0.02
4.560	2-Ethylfuran	0.00
5.145	3-Methylbutanol	0.02
5.222	2-Methylbutanol	0.01
8.324	2-Methyl ethylbutyrate	0.00
10.331	2,5-Diethyl tetrahydrofuran	0.04
11.828	alpha-Thujene	0.04
12.232	alpha-Pinene	0.72
13.131	Camphene	0.02
13.249	3-Methylcyclohexanone	0.01
14.388	Sabinene	0.47
14.692	beta-Pinene	1.12
15.069	3-Octanone	0.02
15.316	Myrcene	0.23
15.745	3-Octanol	0.16
16.230	Pseudolimonene	0.01
16.373	alpha-Phellandrene	0.03
17.033	alpha-Terpinene	0.30
17.512	para-Cymene	0.17
17.813	Limonene	1.86
18.002	1,8-cineole	5.84
18.210	cis-beta-Ocimene	0.21
18.888	trans-beta-Ocimene	0.06
19.675	gamma-Terpinene	0.50
20.449	trans-Sabinene hydrate	0.38
21.470	Terpinolene	0.15
22.273	Nonan-3-ol	0.02
22.420	Linalool	0.20
22.510	cis-Sabinene hydrate	0.03
22.641	2-Methylbutyl-2-methylbutyrate	0.06
23.012	2-Methylbutyl isovalerate	0.04
23.764	3-Octyl acetate	0.02
24.109	cis-para-Menth-2-en-1-ol	0.05
24.362	allo-Ocimene	0.01
25.145	trans-Sabinol	0.03
25.340	trans-para-Menth-2-en-1-ol	0.03
25.763	Isopulegol	0.11
26.050	Citronellal	0.01
26.347	Menthone	22.73
26.806	Menthofuran	2.82
26.911	Isomenthone	3.86
27.258	Neomenthol	4.25
27.387	Borneol	0.03
27.648	trans-para-Menth-8-en-3-one	0.09
27.907	Menthol	36.47
28.025	Terpinen-4-ol	1.07
28.553	Isomenthol	0.53
28.759	Neoisomenthol	0.17
28.988	alpha-Terpineol	0.29
29.200	Unidentified	0.02
29.786	Unidentified	0.01
29.929	trans-Piperitol	0.01
30.352	Unidentified	0.03
30.964	Nerol	0.02
31.124	Citronellol	0.02
31.755	Hex-(3Z)-enyl isovalerate	0.05
31.906	Pulegone	0.87
32.298	Carvone	0.07
32.960	Piperitone	0.39
34.250	Neomenthyl acetate	0.54
34.400	Unidentified	0.02

Chromatogram Organic Peppermint Revive



Comments:

The analysis of this Peppermint 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%
35.447	Menthyl acetate	7.49
35.668	Dihydroedulan isomer	0.06
36.452	Isomenthyl acetate	0.33
36.651	Dihydrocarveol acetate	0.02
38.214	delta-Elemene	0.01
38.917	Myrcen-8-yl acetate	0.01
39.462	Eugenol	0.01
41.081	alpha-Copaene	0.02
41.598	beta-Bourbonene	0.19
41.769	Unidentified	0.03
41.974	beta-Elemene	0.09
42.133	cis-Jasmone	0.01
42.834	Unidentified	0.01
43.240	Limonen-10-yl acetate	0.02
43.880	trans-beta-Caryophyllene	2.15
44.528	beta-Copaene	0.03
45.429	Isogermacrene D	0.01
45.980	trans-beta-Farnesene	0.27
46.122	alpha-Humulene	0.08
46.924	Unidentified	0.01
47.335	gamma-Murolene	0.02
47.714	Germacrene D	1.34
48.598	Bicyclogermacrene	0.20
48.801	alpha-Murolene	0.02
49.675	gamma-Cadinene	0.01
49.979	delta-Cadinene	0.06
53.732	Caryophyllene oxide	0.03
54.462	Viridiflorol	0.12
		100.00