

Sample Information

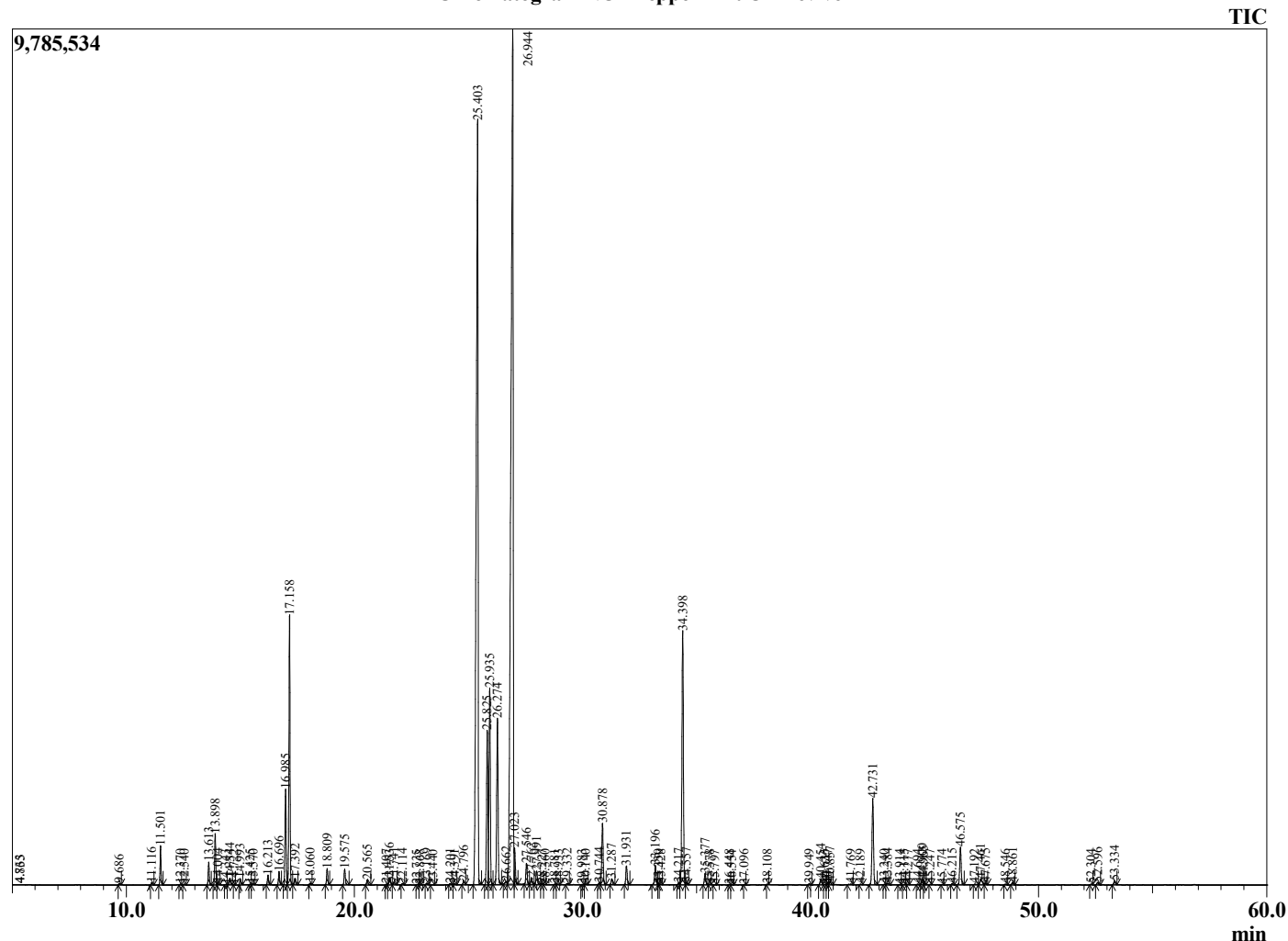
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 6/8/2023 8:50:07 PM
 Sample Type : Essential Oil
 Sample Name : NOP Peppermint Oil Revive
 Sample ID : 9Q
 Injection Volume : 0.10
 Instrument ID: : GC-2



Peak Report TIC

R.Time	Name	Area%
3.713	3-Methylbutanal	0.01
3.809	3-Methylbutanol	0.01
4.763	3-Methylbutanol	0.01
4.835	2-Methyl butanol	0.01
9.686	2,5-Diethyltetrahydrofuran	0.03
11.116	alpha-Thujene	0.04
11.501	alpha-Pinene	0.70
12.370	Camphene	0.02
12.540	3-Methyl cyclohexanone	0.02
13.613	Sabinene	0.43
13.898	beta-Pinene	1.01
14.004	3-Octanone	0.04
14.343	5-Methyl-3-heptanone	0.01
14.544	Myrcene	0.13
14.722	trans-para-Menthane	0.00
14.993	3-Octanol	0.13
15.425	Pseudolimonene	0.01
15.570	alpha-Phellandrene	0.02
16.213	alpha-Terpinene	0.20
16.696	para-Cymene	0.28
16.985	Limonene	2.06
17.158	1,8-Cineole	5.36
17.392	cis-beta-Ocimene	0.14
18.060	trans-beta-Ocimene	0.04
18.809	gamma-Terpinene	0.35
19.575	trans-Sabinene hydrate	0.36
20.565	Terpinolene	0.12
21.407	3-Nonanol	0.01
21.536	Linalool	0.20
21.741	Isoamyl-2-methylbutyrate	0.06
22.114	Isoamyl isovalerate	0.03
22.735	beta-Thujone	0.00
22.868	3-Octyl acetate	0.01
23.169	cis-para-Menth-2-en-1-ol	0.04
23.440	allo-Ocimene	0.01
24.201	trans-Sabinol	0.03
24.391	trans-para-Menth-2-en-1-ol	0.03
24.796	Isopulegol	0.10
25.403	Menthone	25.14
25.825	Menthofuran	3.71
25.935	Isomenthone	4.51
26.274	Neomenthol	4.09
26.662	trans-Isopulegone	0.10
26.944	Menthol	34.07
27.023	Terpinen-4-ol	0.76
27.546	Isomenthol	0.48
27.762	Neoisomenthol	0.17
27.991	alpha-Terpineol	0.34
28.227	Unidentified	0.02
28.360	Unidentified	0.01
28.781	Unidentified	0.01
28.933	trans-Piperitol	0.02
29.332	Unidentified	0.03
29.983	Nerol	0.01
30.140	Citronellol	0.02
30.744	cis-3-Hexenyl isovalerate	0.06
30.878	Pulegone	1.50
31.287	Carvone	0.13
31.931	Piperitone	0.46
33.196	Neomenthyl acetate	0.52
33.330	cis-Ascrinol glycol	0.01
33.428	Unidentified	0.02

Chromatogram NOP Peppermint Oil 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%
34.217	Dihydroedulan isomer	0.05
34.398	Menthyl acetate	6.64
34.557	Dihydroedulan isomer	0.07
35.377	Isomenthyl acetate	0.28
35.578	Isopulegol acetate	0.02
35.797	Unidentified	0.00
36.448	Unidentified	0.01
36.554	Myrtenyl acetate	0.01
37.096	Unidentified	0.01
38.108	Unidentified	0.01
39.949	alpha-Copaene	0.03
40.454	beta-Bourbonene	0.15
40.635	alpha-Bourbonene	0.01
40.747	Unidentified	0.01
40.857	beta-Elementene	0.09
41.769	cis-beta-Caryophyllene	0.03
42.189	Unidentified	0.02
42.731	trans-beta-Caryophyllene	2.36
43.240	Unidentified	0.01
43.384	beta-Copaene	0.05
43.914	Unidentified	0.01
44.115	Unidentified	0.01
44.277	Isogermacrene D	0.01
44.694	Unidentified	0.01
44.900	trans-beta-Farnesene	0.18
44.965	alpha-Humulene	0.08
45.247	Alloaromadendrene	0.01
45.774	Unidentified	0.01
46.215	trans-Cadina-1(6),4-diene	0.03
46.575	Germacrene D	1.00
47.192	Unidentified	0.03
47.461	Bicyclogermacrene	0.22
47.675	alpha-Amorphene	0.04
48.546	gamma-Cadinene	0.02
48.861	delta-Cadinene	0.07
52.304	Spathulenol	0.01
52.596	Caryophyllene oxide	0.07
53.334	Viridiflorol	0.11
		100.00