

Sample Information

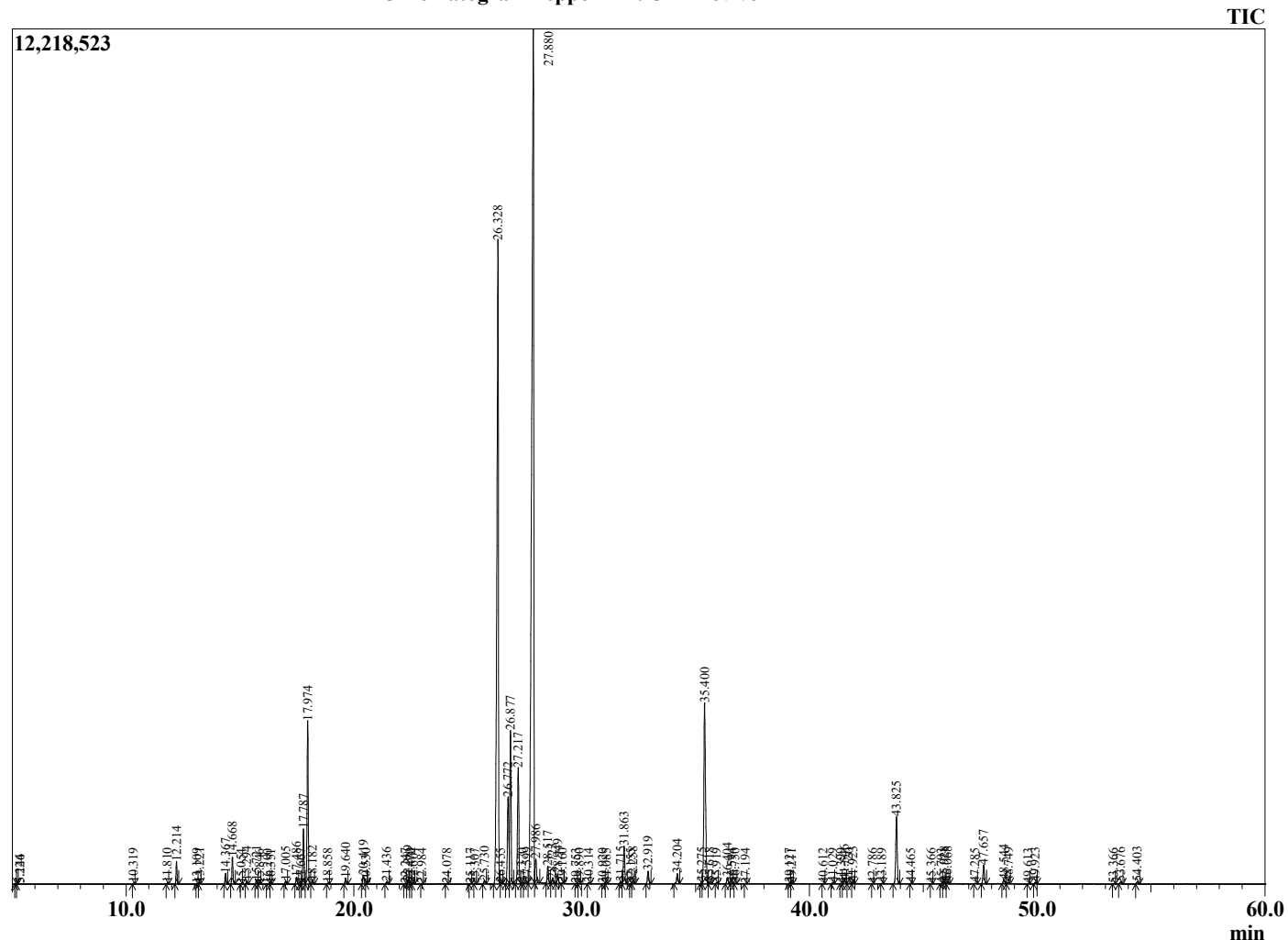
Analyzed by : Dr. Robert S. Pappas
Analyzed : 6/5/2023 9:04:19 PM
Sample Type : Essential Oil
Sample Name : Peppermint Oil - Revive
Sample ID : 8H
Injection Volume : 0.10
Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
4.024	3-Methylbutanal	0.00
4.128	2-Methylbutanal	0.00
5.146	1-Pentanol	0.01
5.224	2-Methyl butanol	0.01
10.319	2,5-Diethyl tetrahydrofuran	0.02
11.810	alpha-Thujene	0.02
12.214	alpha-Pinene	0.50
13.109	Camphene	0.01
13.221	3-Methyl cyclohexanone	0.03
14.367	Sabinene	0.26
14.668	beta-Pinene	0.70
15.054	3-Octanone	0.01
15.294	Myrcene	0.07
15.721	3-Octanol	0.09
15.846	Unidentified	0.01
16.200	Pseudolimonene	0.00
16.351	alpha-Phellandrene	0.01
17.005	alpha-Terpinene	0.08
17.486	para-Cymene	0.18
17.667	2-Ethyl hexanol	0.02
17.787	Limonene	1.49
17.974	1,8-Cineole	4.43
18.182	cis-beta-Ocimene	0.09
18.858	trans-beta-Ocimene	0.02
19.640	gamma-Terpinene	0.16
20.419	trans-Sabinene hydrate	0.29
20.530	Unidentified	0.00
21.436	Terpinolene	0.05
22.247	3-Nonanol	0.01
22.389	Linalool	0.10
22.470	cis-Sabinene hydrate	0.02
22.604	2-Methylbutyl-2-methylbutyrate	0.03
22.984	2-Methylbutyl isovalerate	0.01
24.078	cis-para-Menth-2-en-1-ol	0.02
25.117	trans-Sabinol	0.01
25.307	Unidentified	0.01
25.730	Isopulegol	0.09
26.328	Menthone	23.27
26.455	Unidentified	0.03
26.772	Menthofuran	2.77
26.877	Isomenthone	4.54
27.217	Neomenthol	3.69
27.370	Borneol	0.02
27.599	trans-Isopulegone	0.08
27.880	Menthol	41.33
27.986	Terpinen-4-ol	0.85
28.517	Isomenthol	0.51
28.723	Neoisomenthol	0.14
28.949	alpha-Terpineol	0.33
29.160	Unidentified	0.01
29.753	Unidentified	0.01
29.890	trans-Piperitol	0.01
30.314	Unidentified	0.03
30.920	Unidentified	0.01
31.085	Citronellol	0.01
31.715	Hex-(3Z)-enyl isovalerate	0.07
31.863	Pulegone	1.16
32.155	Hexyl-3-methyl-butoate	0.01
32.258	Carvone	0.08
32.919	Piperitone	0.40
34.204	Neomenthyl acetate	0.32
35.275	Unidentified	0.03

Chromatogram 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%
35.400	Menthyl acetate	7.12
35.618	Dihydroedulan II isomer	0.05
35.919	Unidentified	0.02
36.404	Isomenthyl acetate	0.20
36.594	Unidentified	0.02
36.750	Nonyl acetate	0.02
37.194	cis-Dihydro-beta-Terpinyl acetate	0.01
39.127	Unidentified isomer A	0.02
39.211	Unidentified isomer A	0.02
40.612	alpha-Ylangene	0.01
41.029	alpha-Copaene	0.03
41.399	Unidentified	0.01
41.546	beta-Bourbonene	0.14
41.720	Unidentified	0.02
41.923	beta-Elemene	0.07
42.786	Unidentified	0.01
43.189	Unidentified	0.02
43.825	beta-Caryophyllene	2.37
44.465	beta-Copaene	0.02
45.366	Unidentified	0.01
45.793	trans-Murrola-3,5-diene	0.01
45.928	trans-beta-Farnesene	0.09
46.068	alpha-Humulene	0.08
47.285	trans-Cadina-1(6),4-diene	0.02
47.657	Germacrene D	0.63
48.544	Bicyclogermacrene	0.15
48.749	alpha-Murolene	0.05
49.613	gamma-Cadinene	0.01
49.923	delta-Cadinene	0.06
53.366	Spathulenol	0.02
53.676	Caryophyllene oxide	0.07
54.403	Viridiflorol	0.08
		100.00