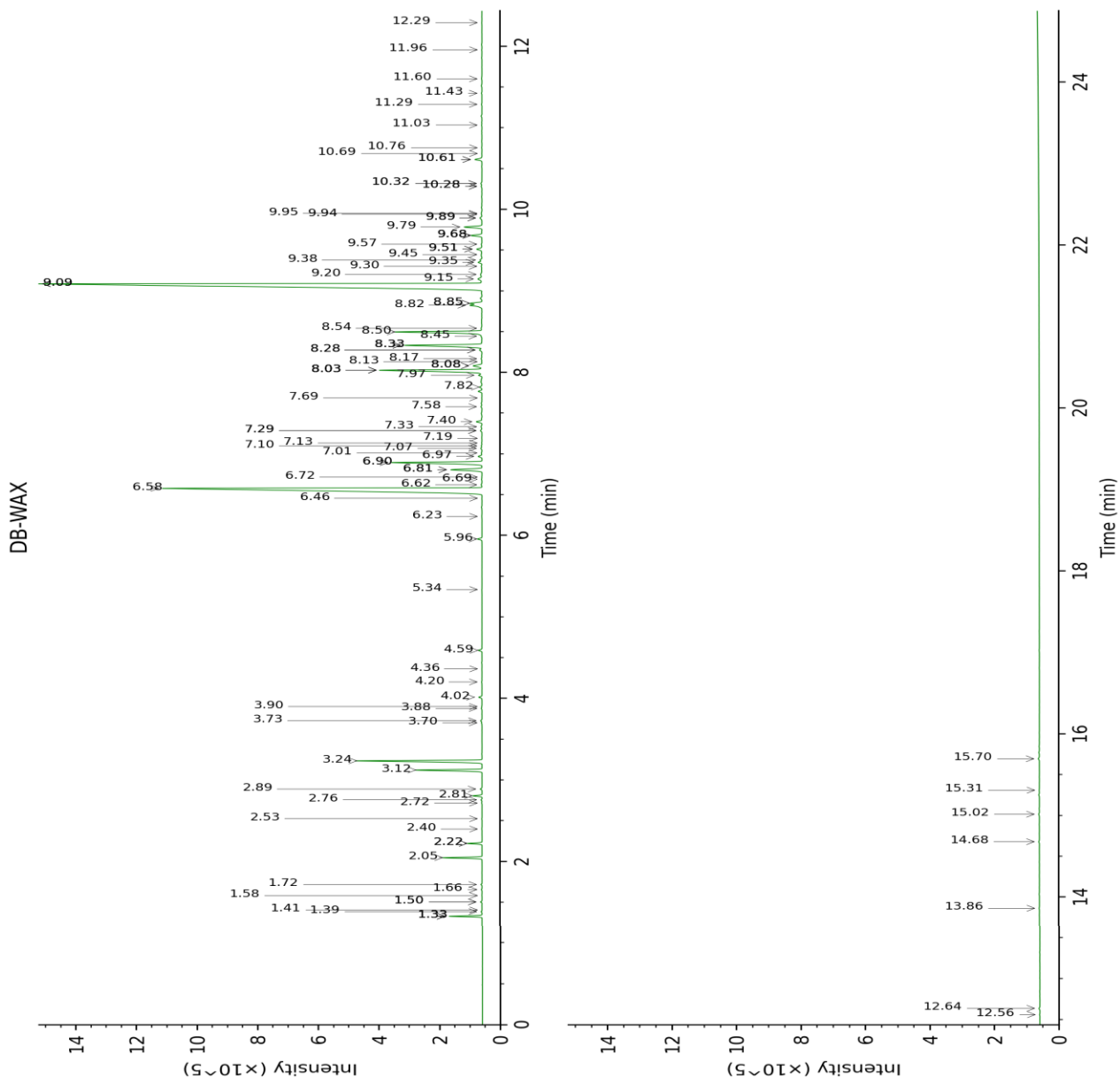


GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

DATE: January 3, 2024



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,

GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

Peak	RT (min)	Compound name	%
1	1,26	Toluene	tr
2	2,46	Hexanol	tr
3	2,74	<i>trans</i> -2,5-Diethyltetrahydrofuran	0,02
4	3,02	Hashishene	0,01
5	3,18	α -Thujene	0,02
6	3,25	α -Pinene	0,84
7	3,40	<i>trans</i> -3-Methylcyclohexanol	0,04
8	3,43	3-Methylcyclohexanone	0,10
9	3,44*	Camphene	0,03
10	3,44*	α -Fenchene	[0,03]
11	3,54	Thuja-2,4(10)-diene	0,01
12	3,87†	Sabinene	1,76
13	3,88*†	β -Pinene	[1,76]
14	3,88*†	<i>cis</i> -para-Menthane	[1,76]
15	4,04*	Octen-3-ol	0,06
16	4,04*	<i>cis</i> -Carane	[0,06]
17	4,11*	Octan-3-one	0,07
18	4,11*	<i>trans</i> -para-Menthane	[0,07]
19	4,20	Myrcene	0,31
20	4,30	Octan-3-ol	0,18
21	4,33	Pseudolimonene	0,05
22	4,34	α -Phellandrene	0,02
23	4,38	Octanal	0,01
24	4,43	Δ 3-Carene	0,03
25	4,54	α -Terpinene	0,08
26	4,63	Carvomenthene	0,01
27	4,66	para-Cymene	0,16
28	4,76*	Limonene	7,57
29	4,76*	1,8-Cineole	[7,57]
30	4,80	2-Ethylhexanol	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

Peak	RT (min)	Compound name	%
31	4,95	(Z)- β -Ocimene	0,03
32	5,11	(E)- β -Ocimene	0,02
33	5,23	γ -Terpinene	0,04
34	5,36	cis-Sabinene hydrate	0,03
35	5,44	cis-Linalool oxide (fur,)	0,01
36	5,52	Octanol	0,08
37	5,69*	para-Cymenene	0,03
38	5,69*	Terpinolene	[0,03]
39	5,81	trans-Sabinene hydrate	0,03
40	5,94*	Linalool	0,16
41	5,94*	Nonan-3-ol	[0,16]
42	6,11	endo-Fenchol	0,03
43	6,17	cis-para-Menth-2-en-1- ol	0,02
44	6,46	Camphor	0,03
45	6,50	trans-Sabinol	0,04
46	6,60*	Isopulegol	0,13
47	6,60*	cis- α -Dihydroterpineol	[0,13]
48	6,75	Menthone	24,67
49	6,87*	Isomenthone	5,44
50	6,87*	Menthofuran	[5,44]
51	6,94*	neo-Menthol	3,73
52	6,94*	δ -Terpineol	[3,73]
53	7,00	Lavandulol	0,13
54	7,14	Menthol	37,92
55	7,22	Isomenthol	0,68
56	7,26	para-Cymen-8-ol	0,06
57	7,33*	α -Terpineol	0,60
58	7,33*	Myrtenal	[0,60]
58	7,33*	neoiso-Menthol	[0,60]
59	7,37	Myrtenol	0,02
60	7,40	Methylchavicol	0,07

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

Peak	RT (min)	Compound name	%
61	7,47	trans-Isopiperitenol	0,04
62	7,50	Unknown [m/z 43, 99 (84), 81 (46), 986 (43),126 (36), 71 (28),,, 170 (12)]	0,02
63	7,59*	trans-Piperitol	0,07
64	7,59*	Decanal	[0,07]
65	7,70	iso-Dihydrocarveol ?	0,01
66	7,74	trans-Carveol	0,02
67	7,94	cis-Carveol	0,03
68	7,97	Citronellol	0,03
69	8,00	Pulegone	0,51
70	8,08	Carvone	0,04
71	8,22	Piperitone	0,77
72	8,50	Isopiperitenone	0,02
73	8,61	neo-Menthyl acetate	0,05
74	8,64	Decanol	0,29
75	8,74	2-Ethylmenthone?	0,03
76	8,75	Dihydroedulan I	0,03
77	8,90*	Menthyl acetate	4,99
78	8,90*	Dihydroedulan II	[4,99]
79	8,99	Thymol	0,04
80	9,08	Isomenthyl acetate	0,09
81	9,14	Unknown [m/z 43, 136(55), 121 (55), 107 (48),93 (48), 81 (30), 79 (29),,,]	0,01
82	9,22	neiso-Menthyl acetate?	0,02
83	9,40	Dihydrocarvyl acetate	0,02
84	9,49	Bicycloelemene	0,17
85	9,54	Piperitenone	0,02
86	9,67*	Evodone	0,02
87	9,67*	α -Cubebene	[0,02]
88	9,77	Eugenol	0,04
89	9,96	α -Ylangene	0,04
90	10,03	α -Copaene	0,08

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

Peak	RT (min)	Compound name	%
91	10,08	1,5-diepi- β - Bourbonene	0,06
92	10,14	β -Bourbonene	0,27
93	10,23	β -Cubebene	0,04
94	10,27	β -Elemene	0,13
95	10,32	Unknown [m/z 107,121 (79), 119 (66), 91(58), 136 (55), 105(49),,, 194 (1)]	0,03
96	10,44	Isocaryophyllene	0,07
97	10,51	Unknown [m/z 109, 95(88), 69 (66), 135 (56),82 (54), 41 (45),,,]	0,09
98	10,62*	β -Caryophyllene	3,86
99	10,62*	β -Ylangene	[3,86]
100	10,74	β -Copaene	0,07
101	10,82	Aromadendrene	0,03
102	10,87	trans- α -Bergamotene	0,05
103	10,92	Isogermacrene D	0,03
104	11,06	α -Humulene	0,27
105	11,16	Muurola-4,11-diene	0,02
106	11,20	(E)- β -Farnesene	0,05
107	11,40	γ -Muurolene	0,06
108	11,44	Germacrene D	0,12
109	11,65*	Viridiflorene	0,12
110	11,65*	Bicyclogermacrene	[0,12]
111	11,73	α -Muurolene	0,03
112	11,76	ϵ -Amorphene	0,01
113	11,89	γ -Cadinene	0,02
114	12,03	δ -Cadinene	0,04
115	12,72*	Caryophyllene oxide	0,06
116	12,72*	Caryophyllene oxide isomer	[0,06]
117	12,86	Viridiflorol	0,02
118	17,06	meta-Camphorene	0,03
119	17,41	para-Camphorene	0,07
		Total	98,58%

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL (SUPREME) – 11114

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, only the first one is taken into account in the consolidated total

†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis

tr: The compound has been detected below 0.005% of total signal.

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