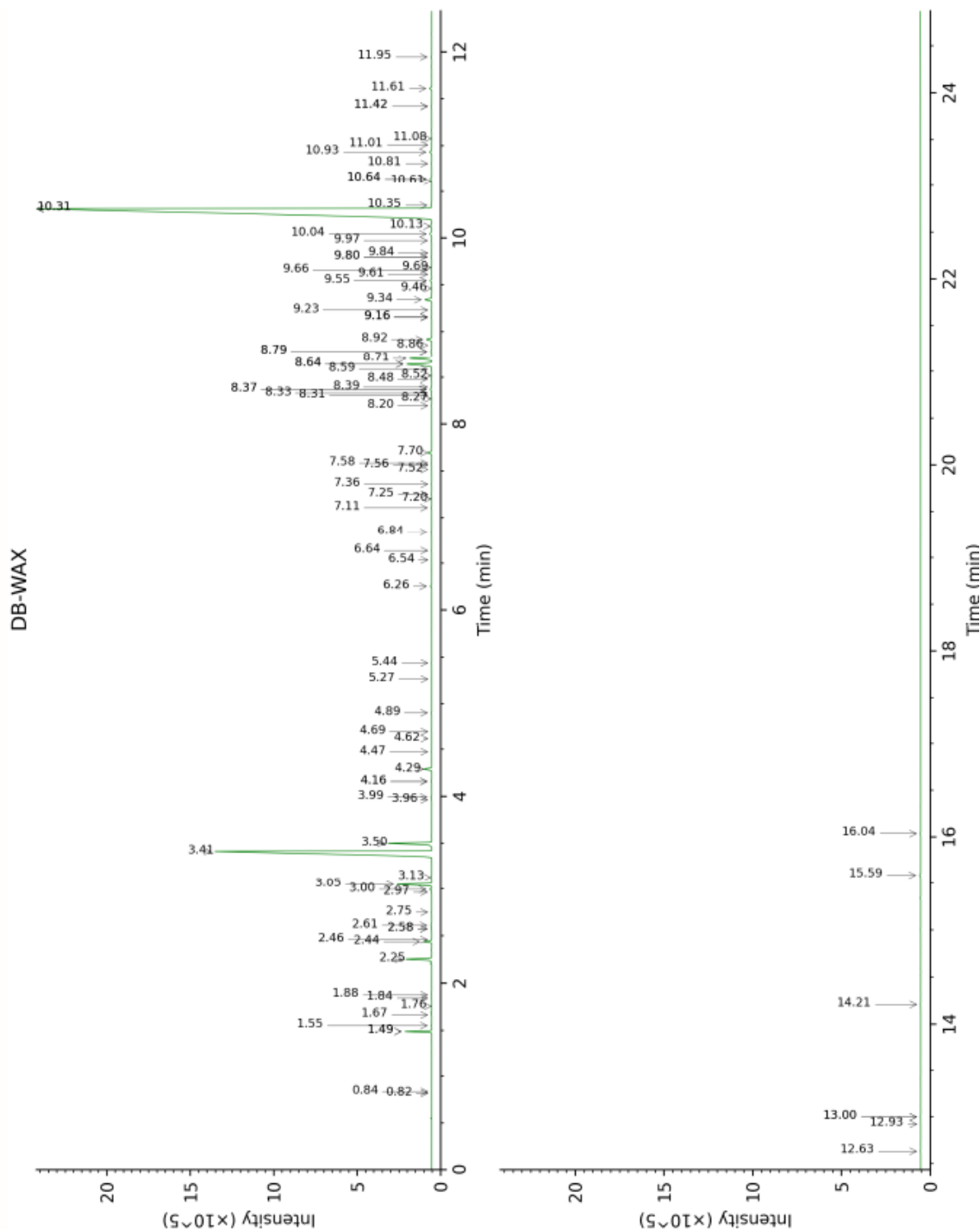


GCMS ANALYSIS

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310

DATE: 26 March 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: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310

Peak	RT (min)	Compound	%
1	0.84	2-Methylbutyral	tr
2	0.82	trans-2,5-Diethyltetrahydrofuran	tr
3	1.66	Unknown FRAG XC [m/z 69, 93 (91), 41(88), 79 (22), 40 (20), 91 (17)...]	0.02
4	1.84	Hashishene	0.01
5	1.49*	α -Thujene	[0.98]
6	1.55	α -Pinene	0.02
7	1.49*	3-Methylcyclohexanone	[0.98]
8	4.89	Camphene	0.03
9	1.88	α -Fenchene	0.01
10	1.76	Thuja-2,4(10)-diene	0.01
11		Unknown FRAG XCIV [m/z 93, 79 (62), 121 (37), 67 (35), 107 (34), 91 (33)...]	
12	2.26	β -Pinene	1.18
13	2.44	Sabinene	0.36
14	2.58*	Unknown ORVU I [m/z 93, 79 (73), 67 (49), 95(42), 91 (41), 121 (38)...]	[0.03]
15	4.69	Octen-3-one	0.01
16	4.16*	Octan-3-one	[0.05]
17	5.27	6-Methyl-5-hepten-2-one	tr
18	3.05	Myrcene	1.64
19	2.58*	2-Carene	[0.03]
20	6.26	Octan-3-ol	0.07
21	4.62	Octanal	0.01
22	3.00	Pseudolimonene	0.10
23	2.97	α -Phellandrene	0.03
24	2.75	Δ^3 -Carene	0.02
25	3.13	α -Terpinene	0.05
26	2.61	Carvomenthene	0.06
27	4.29	para-Cymene	0.40
28	3.50	1,8-Cineole	2.19
29	3.41	Limonene	21.24
30	7.52	2-Ethylhexanol	0.01

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310

Peak	RT (min)	Compound	%
31	3.96	(Z)- β -Ocimene	0.02
32	4.16*	(E)- β -Ocimene	[0.05]
33	3.99	γ -Terpinene	0.05
34	7.11	cis-Sabinene hydrate	0.03
35	8.40	Octanol	0.02
36	6.54	para-Cymenene	0.01
37	4.48	Terpinolene	0.02
38	8.27	Linalool	0.01
39	9.16*	trans-para-Mentha-2,8-9.16*dien-1-ol	[0.02]
40	5.44	Octan-3-yl acetate	0.02
41	6.64	cis-Limonene oxide	0.02
42	9.66	cis-para-Mentha-2,8-dien-1-ol	0.02
43	8.37*	Isopulegol	[0.10]
44	6.84	Menthone	0.05
45	7.20	Isomenthone	0.01
46		Unknown MESP VII [m/z 93, 108 (36), 91 (30), 71 (27), 79 (27)...]	
47	8.79*	neo-Menthol	[0.08]
48	9.34	Menthol	0.39
49	8.79*	Terpinen-4-ol	[0.08]
50	9.16*	Isomenthol	[0.02]
51	9.97	α -Terpineol	0.04
52	8.70	cis-Dihydrocarvone	1.27
53	8.86	Myrtenal	0.01
54	9.69	neiso-Menthol	0.03
55	11.08	Myrtenol	tr
56	10.35	neo-Dihydrocarveol	0.06
57	10.64*	Dihydrocarveol	[0.11]
58	9.55	Methylchavicol	0.10
59	8.92	trans-Dihydrocarvone	0.31
60	11.01	iso-Dihydrocarveol ?	0.01

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310

Peak	RT (min)	Compound	%
61	11.61	trans-Carveol	0.12
62	9.16*	Pulegone	[0.02]
63	10.31*	Carvone	[64.88]
64	11.95	cis-Carveol	0.06
65	10.13	Piperitone	0.12
66	11.42*	Isopiperitenone	[0.04]
67	11.42*	trans-Carvone oxide	[0.04]
68	10.93	Decanol	0.13
69	8.33	Menthyl acetate	0.03
70	7.58	Dihydroedulan II	0.02
71	8.48	Isomenthyl acetate	0.04
72	9.61	Dihydrocarvyl acetate	0.02
73	7.25	Bicycloelemene	0.02
74		iso-Dihydrocarvyl acetate	
75	10.81	cis-Carvyl acetate	0.02
76	7.36	α -Copaene	0.02
77	7.56	1,5-diepi- β -Bourbonene	0.01
78	7.70	β -Bourbonene	0.23
79	8.52	cis- β -Elemene	0.01
80	8.64*	β -Elemene	[1.70]
81	12.64	(Z)-Jasmone	0.02
82	8.20	Longifolene	0.03
83	8.37*	Isocaryophyllene	[0.10]
84	8.31	β -Ylangene	0.01
85	8.64*	β -Caryophyllene	[1.70]
86	8.59	β -Copaene	0.05
87	9.16*	Isogermacrene D	[0.02]
88	9.46	α -Humulene	0.01
89	9.23	allo-Aromadendrene	0.02
90	9.80*	(E)- β -Farnesene	[0.04]

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: SPEARMINT 65% ESSENTIAL OIL (INDIA) – 11310

Peak	RT (min)	Compound	%
91		Unknown MISC XLIX [m/z 161, 105 (56), 91 (50), 93 (36), 119 (33), 79 (31)...204 (5)]	
92	9.80*	γ-Murolene	[0.04]
93	10.04	Germacrene D	0.17
94	13.00*	Phenylethyl 2-methylbutyrate	[0.02]
95	9.84	Viridiflorene	0.01
96	10.31*	α-Murolene	[64.88]
97	10.61	γ-Cadinene	0.01
98	10.64*	δ-Cadinene	[0.11]
99	13.00*	Caryophyllene oxide	[0.02]
100	12.92	Caryophyllene oxide isomer	0.01
101	14.21	Viridiflorol	0.02
102	15.59	meta-Camphorene	0.08
103	16.04	para-Camphorene	0.03
		Total reported	99.36%

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

t: 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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