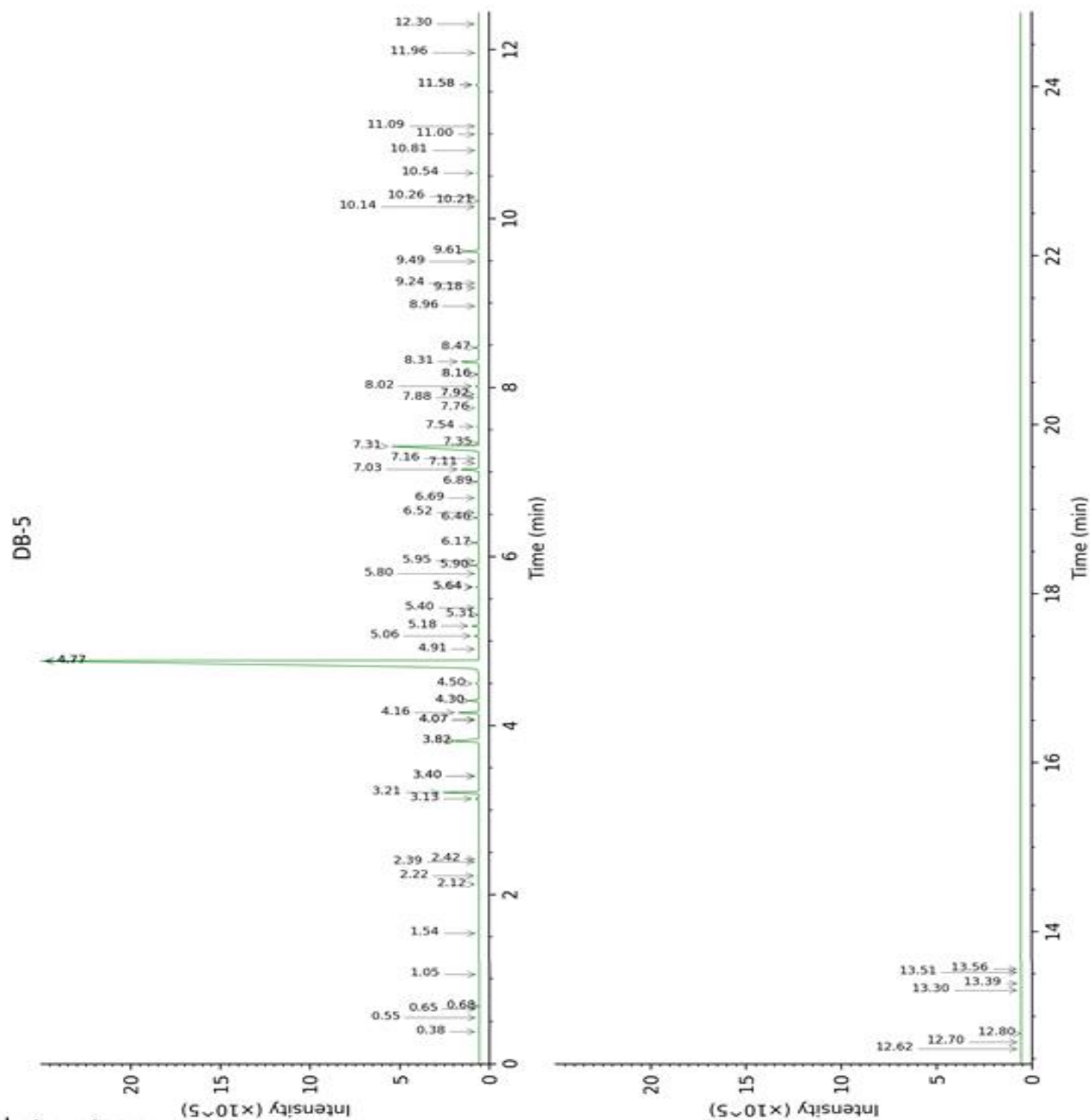


## GCMS ANALYSIS

PRODUCT NAME: EUCALYPTUS RADIATA ORGANIC ESSENTIAL OIL – 50035

DATE: March 28, 2023



*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: EUCALYPTUS RADIATA ORGANIC ESSENTIAL OIL – 50035**

Peak	RT (min)	Compound name	%
1	0.38	Ethanol	0.01
2	0.54	2-Methyl-3-buten-2-ol	tr
3	0.65	Isovaleral	tr
4	0.68	2-Methylbutyral	tr
5	1.05	Isoamyl alcohol	tr
6	1.54	Hexanal	tr
7	2.12	(2E)-Hexenal	0.02
8	2.22	(3Z)-Hexenol	0.07
9	2.39	(2E)-Hexenol	0.02
10	2.42	Hexanol	0.03
11	3.14	$\alpha$ -Thujene	0.20
12	3.21	$\alpha$ -Pinene	2.07
13	3.40*	Camphene	0.04
14	3.40*	$\alpha$ -Fenchene	[0.04]
15	3.82*	$\beta$ -Pinene	2.03
16	3.82*	Sabinene	[2.03]
17	4.07*	6-Methyl-5-hepten-2-one	0.03
18	4.07*	<i>trans</i> -meta-Mentha-2,8-diene	[0.03]
19	4.07*	Unknown [m/z 67,68 (95), 43 (73), 94(65), 79 (54), 41(50)...]	[0.03]
20	4.16	Myrcene	1.27
21	4.30*	Pseudolimonene	0.66
22	4.30*	$\alpha$ -Phellandrene	[0.66]
23	4.50	$\alpha$ -Terpinene	0.24
24	4.77*	para-Cymene	75.77
25	4.77*	Limonene	[75.77]
26	4.77*	1,8-Cineole	[75.77]
27	4.91	(Z)- $\beta$ -Ocimene	0.02
28	5.06	(E)- $\beta$ -Ocimene	0.26
29	5.18	$\gamma$ -Terpinene	0.42
30	5.31	<i>cis</i> -Sabinenehydrate	0.02

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### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS RADIATA ORGANIC ESSENTIAL OIL – 50035

Peak	RT (min)	Compound name	%
31	5.40	<i>cis</i> -Linalool oxide(fur.)	0.02
32	5.64*	Terpinolene	0.17
33	5.64*	<i>trans</i> -Linalooloxide (fur.)	[0.17]
34	5.64*	para-Cymenene	[0.17]
35	5.80	<i>trans</i> -Sabinenehydrate	0.02
36	5.90	Linalool	0.41
37	5.95	Unknown [m/z 43,59 (37), 79 (33), 91(32), 119 (31)...]	0.01
38	6.17	<i>cis</i> -para-Menth-2-en-1-ol	0.28
39	6.46	<i>trans</i> -para-Menth-2-en-1-ol	0.19
40	6.52	Isopulegol	0.02
41	6.69	Citronellal	0.05
42	6.89	δ-Terpineol	0.19
43	7.03	Terpinen-4-ol	1.16
44	7.11	Cryptone	0.02
45	7.16	para-Cymen-8-ol	0.01
46	7.31	α-Terpineol	10.26
47	7.35	<i>cis</i> -Piperitol	0.07
48	7.54	<i>trans</i> -Piperitol	0.12
49	7.76	exo-2-Hydroxycineole	0.01
50	7.88	Nerol	0.05
51	7.92*	Citronellol	0.06
52	7.92*	<i>trans</i> -α- Phellandreneepoxide (iPr vs Me)	[0.06]
53	8.02	Neral	0.22
54	8.16*	Piperitone	0.08
55	8.16*	Unknown [m/z 43,97 (69), 107 (46),41 (28), 55 (21),09 (20)...]	[0.08]
56	8.31	Geraniol	1.30
57	8.47	Geranial	0.26
58	8.96	Unknown [m/z 59,94 (99), 79 (68), 43(32), 97 (17)... 137(8)...]	0.02
59	9.18	Unknown [m/z 97,112 (92), 83 (62),43 (44), 41 (25)...170? (4)]	0.01
60	9.24	Unknown [m/z 69,41 (58), 114 (29),43 (25), 83 (24),123 (20)...]	0.01

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### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: EUCALYPTUS RADIATA ORGANIC ESSENTIAL OIL – 50035

Peak	RT (min)	Compound name	%
61	9.49	exo-2- Hydroxycineoleacetate	0.01
32	9.61	$\alpha$ -Terpinyl acetate	0.86
63	10.14	Geranyl acetate	0.03
64	10.21	Unknown [m/z 93,122 (98), 161 (98),107 (86), 95 (46),105 (72)... 204 (34)]	0.01
65	10.26	Unknown [m/z 79,59 (80), 94 (49), 43(41), 109 (30), 93(25)...]	0.02
66	10.54	$\beta$ -Caryophyllene	0.10
67	10.81	Aromadendrene	0.01
68	11.00	$\alpha$ -Humulene	0.02
69	11.09	allo-Aromadendrene	0.02
70	11.85*	Bicyclogermacrene	0.22
71	11.58*	Viridiflorene	[0.22]
72	11.96	$\delta$ -Cadinene	0.01
73	12.30	$\alpha$ -Elemol	0.04
74	12.62	Caryophylleneoxide	0.03
75	12.70	Globulol	0.02
76	12.80	Cubeban-11-ol	0.01
77	13.30	$\gamma$ -Eudesmol	0.04
78	13.39	Isospathulenol	0.02
79	13.51	$\beta$ -Eudesmol	0.05
80	13.56	$\alpha$ -Eudesmol	0.04
		<b>Total identified</b>	<b>99.71%</b>
		<b>Total reported</b>	<b>99.79%</b>

\*: Two or more compounds are coeluting on this column

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

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

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