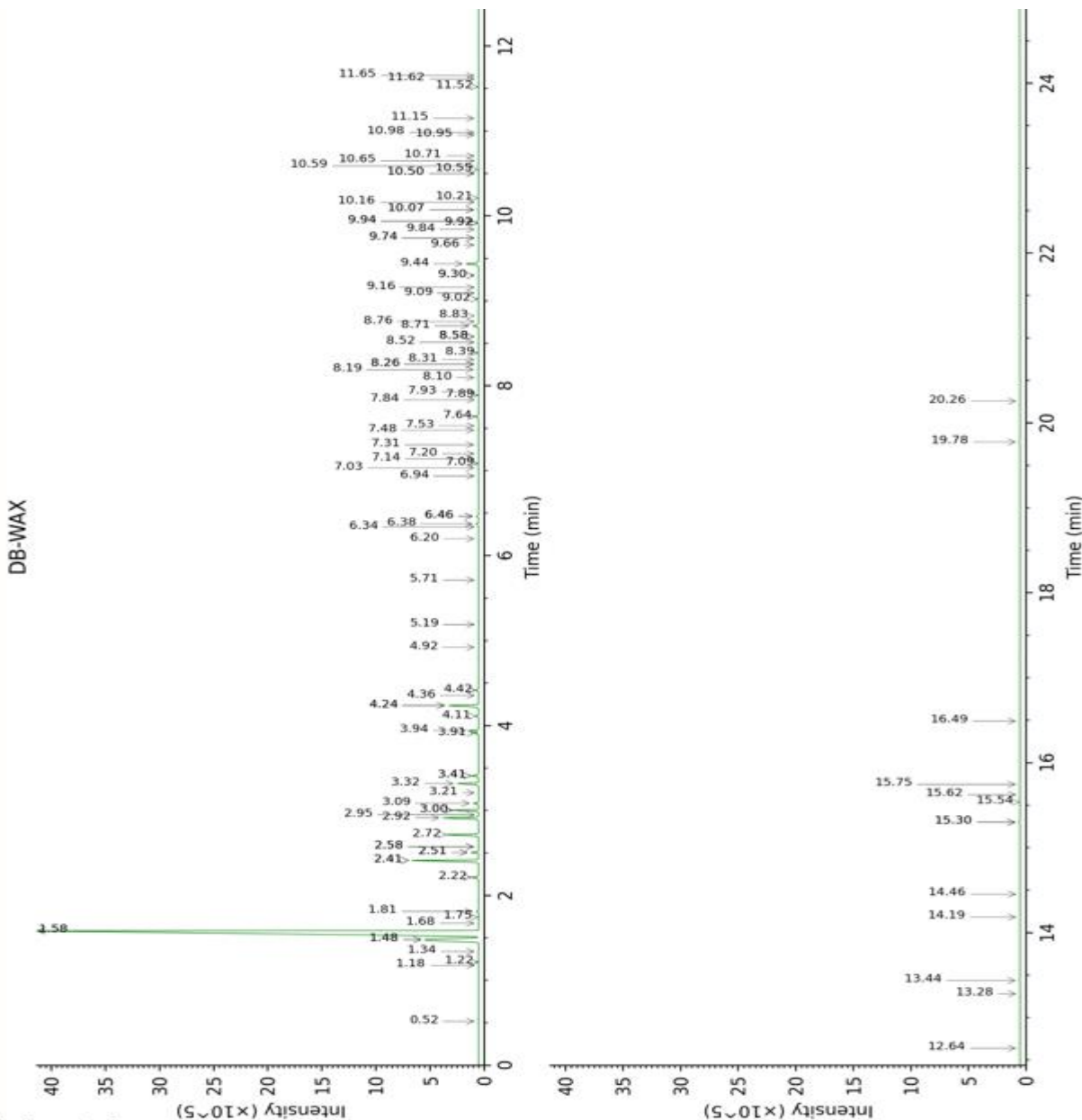


**GCMS ANALYSIS**

**PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA SERRATA- 11246**  
**DATE: May 8, 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: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA SERRATA- 11246**

Peak	RT (min)	Compound name	%
1	0,52	(E)-2-Methyl-1,3-pentadiene	tr
2	1,58*	Toluene	[69,0]
3	1,68	Unknown PRME II [m/z 109, 43 (28), 124(28), 41 (14), 55 (11),79 (9), 81 (8),,,]	0,02
4	1,22	Unknown BOCA II [m/z 79, 78 (45), 91(28), 77 (28), 41 (13), 80 (12), 107 (11),,, 122 (1)]	tr
5	1,18	Unknown BOFR I [m/z 93, 91 (75), 121 (61),77 (58), 79 (38), 92 (26), 43 (24), 41 (23),105 (22),107 (19), 136(16)]	0,01
6		Unknown BOFR II [m/z 93, 91 (72), 121(58), 77 (49), 79 (41), 43 (22), 105 (20),107(20), 41 (18), 136 (17),92 (17)]	
7	1,48*	Hashishene	[8,16]
8	1,34	Tricyclene	0,01
9	1,58*	$\alpha$ -Thujene	[69,0]
10	1,48*	$\alpha$ -Pinene	[8,16]
11	2,51*	Unknown SAOF I [m/z 91, 92 (47), 65 (11),,, 134 (1)]	[0,44]
12	1,75	$\alpha$ -Fenchene	0,01
13	1,81	Camphene	0,10
14	2,41*	Thuja-2,4(10)-diene	[4,90]
15	3,00*	3,7,7-Trimethylcyclohepta- 1,3,5-triene	[1,71]
16	2,22	$\beta$ -Pinene	0,48
17	2,41*	Sabinene	[4,90]
18	2,58*	Pseudolimoneneisomer	[0,05]
19	3,21	Dehydro-1,8-cineole	0,01
20	5,19	6-Methyl-5-hepten-2-one	tr
21	3,00*	Myrcene	[1,71]
22	2,51*	2-Carene	[0,44]
23	2,95	Pseudolimonene	0,01
24	2,92	$\alpha$ -Phellandrene	2,51
25	2,72	$\Delta$ 3-Carene	2,22
26	3,09	$\alpha$ -Terpinene	0,33
27	2,58*	Carvomenthene	[0,05]
28	4,24*	<i>meta</i> -Cymene	[2,35]
29	4,24*	<i>para</i> -Cymene	[2,35]
30	6,38	Unknown BODA IV [m/z 109, 43 (58), 95 (26),,, 137 (15),,,]	0,16

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**GCMS ANALYSIS (cont'd.)**

**PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA SERRATA- 11246**

Peak	RT (min)	Compound name	%
31	3,41*	$\beta$ -Phellandrene	[0,52]
32	3,32	Limonene	1,52
33	3,41*	1,8-Cineole	[0,52]
34		Unknown BOSA IV [m/z 67, 93 (70), 82(70), 121 (42), 107(39), 91 (33), 79 (28),,,]	
35	3,91	(Z)- $\beta$ -Ocimene	0,26
36	7,48	Unknown BOFR III [m/z 109, 43 (57), 91(28), 67 (25), 93 (24), 95 (22), 77 (21), 137(21), 41 (17), 79 (14),,,]	0,05
37	4,11	(E)- $\beta$ -Ocimene	0,14
38	7,09	Unknown BOFR IV [m/z 109 , 45 (67), 41(40), 67 (39), 81 (33), 79 (27), 95 (24), 91(23), 82 (21), 55 (21),93 (20),,,]	0,01
39	3,94	$\gamma$ -Terpinene	0,66
40	7,03	cis-Sabinene hydrate	0,05
41	4,92	Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94(35), 137 (33), 77 (26),91 (20), 152 (18)]	0,01
42	4,36	Isoterpinolene	0,01
43	6,46*	para-Cymenene	[0,16]
44	4,42	Terpinolene	0,19
45	8,10	trans-Sabinenehydrate	0,04
46	6,20	$\alpha$ -Thujone	0,03
47	8,19	Linalool	0,07
48	6,46*	$\beta$ -Thujone	[0,16]
49	6,34	Unknown BOSE I [m/z 109, 81 (54), 91 (32),79 (22),,,]	0,02
50		Unknown BOSE II [m/z 109, 91 (57), 93(47), 81 (44), 77 (40),,,154 (1)]	
51	8,76	Dehydrosabinaketone	0,02
52	8,26*	cis-para-Menth-2-en-1-ol	[0,04]
53	7,14	$\alpha$ -Campholenal	0,01
54		Unknown BOSE III [m/z 111, 43 (22), 55(14), 41 (12), 110(11),,,]	
55	5,71	allo-Ocimene	0,02
56	9,30*	trans-Pinocarveol	[0,02]
57	9,94*	trans-Sabinol	[0,10]
58	9,66	trans-Verbenol	0,03
59	8,83	para-Menth-3-en-8-ol	0,01
60		Unknown BOSE IV [m/z 109, 81 (39), 41(38), 95 (24),,, 152 (1)]	

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**GCMS ANALYSIS (cont'd.)**

**PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA SERRATA- 11246**

Peak	RT (min)	Compound name	%
61		Unknown RHGR XIX [m/z 109, 43 (75), 137(46), 67 (31), 93 (25),,,152 (4)]	
62	9,92*	Borneol	[0,04]
63	7,84	Unknown CALU III [m/z 95, 110 (43), 81(28), 41 (15),,, 152 (8)]	0,01
64	9,02	Umbellulone	0,03
65	10,98	<i>cis</i> -Sabinol	0,05
66	8,71	Terpinen-4-ol	0,49
67	9,30*	Cryptone	[0,02]
68	11,62	<i>meta</i> -Cymen-8-ol	0,01
69	11,65	<i>para</i> -Cymen-8-ol	0,02
70	9,92*	$\alpha$ -Terpineol	[0,04]
71	9,44	Methylchavicol	1,03
72	11,15	<i>cis</i> - $\alpha$ -Phellandrene epoxide (iPr vs Me)	0,04
73	10,95	Unknown PINI IV [m/z 109, 91 (100), 81 (88),94 (75), 119 (74), 96(73), 41 (63),,, 150 (2)]	tr
74	9,74*	Verbenone	0,03
75	10,50	<i>trans</i> -Piperitol	0,02
76	11,52	<i>trans</i> -Carveol	Tr
77	10,70	Cuminal	Tr
78	10,07*	Piperitone	0,06
79	8,31	Linalyl acetate	0,03
80		Unknown BOSE VI [m/z 109, 41 (22), 81(14), 43 (11),,, 152 (4)]	
81	8,39	Bornyl acetate	0,02
82	15,30*	Thymol	[0,07]
83	15,54	Carvacrol	0,01
84	15,30*	<i>para</i> -Menth-5-en-1,2-diol isomer III	[0,07]
85	6,94	$\alpha$ -Cubebene	0,01
86	9,84	$\alpha$ -Terpinyl acetate	0,02
87	7,20	$\alpha$ -Ylangene	0,01
88	7,31	$\alpha$ -Copaene	0,05
89	7,64	$\beta$ -Bourbonene	0,25
90	7,53	1,5-diepi- $\beta$ -Bourbonene	0,02

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**GCMS ANALYSIS (cont'd.)**

**PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA SERRATA- 11246**

Peak	RT (min)	Compound name	%
91	7,89	$\beta$ -Cubebene	0,01
92	8,58*	$\beta$ -Elemene	[0,03]
93	7,93	$\beta$ -Longipinene	0,01
94		Unknown CALU VIII [m/z 71, 100 (92), 111(79), 69 (46), 109(45),,,]	
95	13,44	Methyleugenol	0,05
96	8,26*	$\beta$ -Ylangene	[0,04]
97	8,58*	$\beta$ -Caryophyllene	[0,03]
98	8,52	$\beta$ -Copaene	0,03
99	8,58*	<i>trans</i> - $\alpha$ -Bergamotene	[0,03]
100	9,09	Isogermacrene D	0,02
101	9,16	allo-Aromadendrene	0,03
102	9,74*	$\gamma$ -Muurolene	[0,03]
103	9,94*	Germacrene D	0,02
104	10,07*	Unknown BOSE VII [m/z 91, 93 (92), 105(71), 77 (69), 79 (68), 133 (63),,, 204 (32)]	[0,06]
105	10,21	Bicyclogermacrene	0,01
106	10,16	$\alpha$ -Muurolene	0,01
107	10,50*	$\gamma$ -Cadinene	[0,02]
108	10,65	Kessane	tr
109	10,55	Zonarene	0,01
110	10,59	$\delta$ -Cadinene	0,10
111	14,19	$\alpha$ -Elemol	0,01
112	15,62	Elemicin	0,01
113	14,46	4,10-diepi-Guaiol	0,01
114	12,64	$\alpha$ -Phellandrene dimerII	0,03
115	13,28	$\alpha$ -Phellandrene dimerIII	0,01
116	15,75	(3E)-Cembrene A	0,04
117	16,49	Verticilla-4(20),7,11-triene	0,03
118	20,26	Cembrenol	0,01
119	19,78	Serratol	0,04
		<b>Total reported</b>	<b>99,29%</b>

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