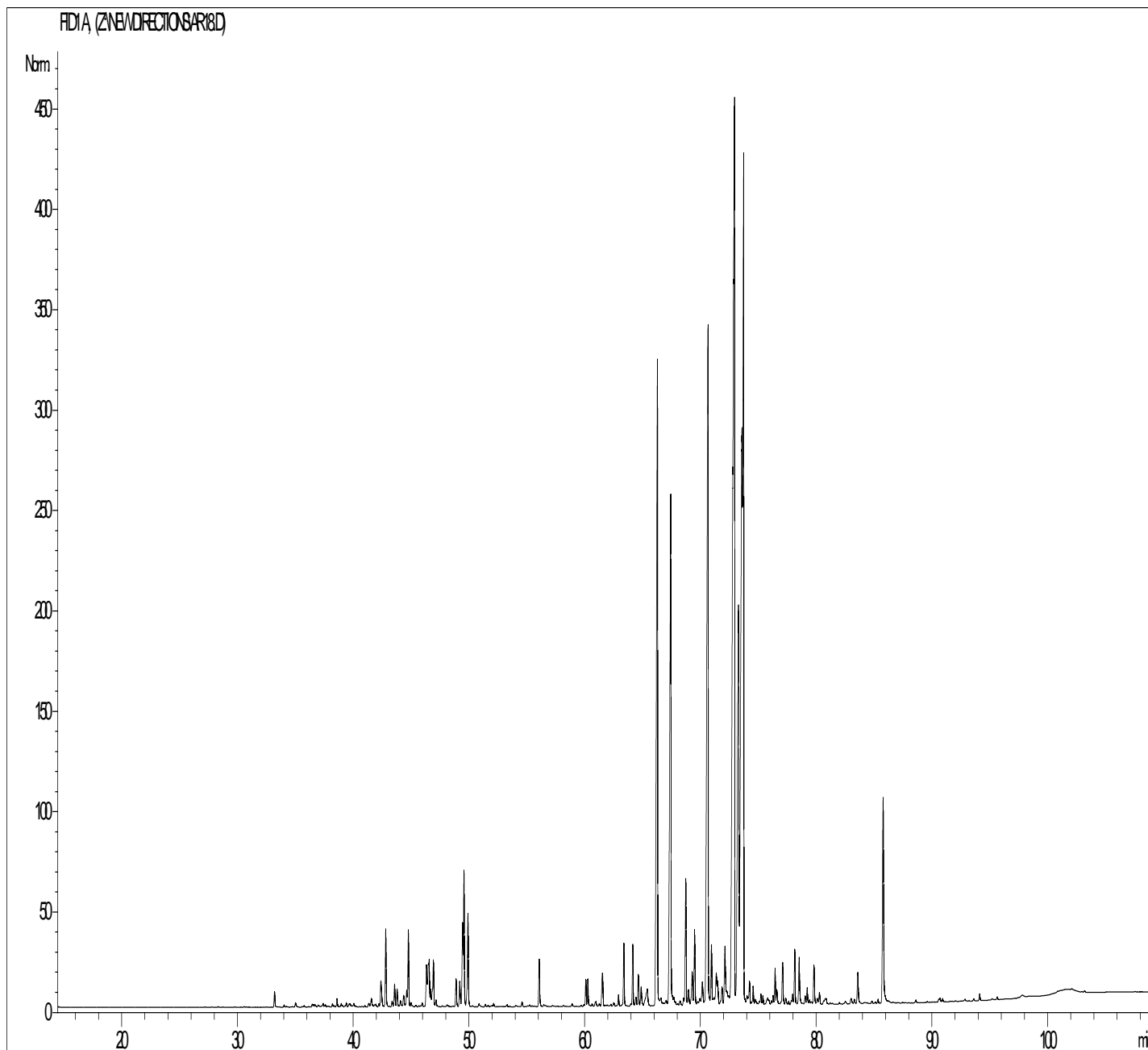


GCMS ANALYSIS

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

DATE: March 20, 2020



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: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
1	33,19	1,3,7,7-TETRAMETHYL-BICYCLO-3-DECENE	0,13
2	34,02	ALIPHATIC ESTER	0,02
3	35,01	MODHEPHENE	0,04
4	35,06	SESQUITERPENE	0,01
5	35,75	ALIPHATIC ESTER	0,02
6	36,44	SESQUITERPENE	0,03
7	36,55	SESQUITERPENE	0,03
8	36,69	alpha-cis-BERGAMOTENE	0,04
9	36,96	CEDRENE ISOMER	0,04
10	37,38	SILPHINENE ISOMER	0,04
11	37,58	alpha-SANTALENE	0,03
12	38,20	alpha-trans-BERGAMOTENE	0,06
13	38,59	beta-ELEMENE	0,08
14	38,96	beta-CARYOPHYLLENE	0,06
15	39,39	AROMADENDRENE	0,06
16	39,65	THUYOPSENE	0,08
17	40,05	ARISTOLENE ISOMER	0,06
18	40,99	CURCUMENE ISOMER	0,02
19	41,34	epi-beta-SANTALENE	0,05
20	41,56	GURJUNENE ISOMER	0,13
21	41,95	CEDRENE ISOMER	0,06
22	42,31	beta-SANTALENE	0,04
23	42,39	CURCUMENE ISOMER	0,36
24	42,80	alpha-ACORADIENE	0,76
25	43,35	CURCUMENE ISOMER	0,07
26	43,56	ZONARENE	0,23
27	43,78	gamma-SELINENE	0,19
28	44,07	ALIPHATIC ALCOHOL	0,08
29	44,35	beta-ACORADIENE	0,14
30	44,62	SELINENE ISOMER	0,16

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
31	44,76	gamma-CURCUMENE	0,74
32	44,99	SESQUITERPENE	0,05
33	45,39	CHAMIGRENE ISOMER	0,02
34	45,67	SESQUITERPENE	0,02
35	45,95	GERMACRENE D	0,04
36	46,32	VALENCENE	0,52
37	46,49	beta-DIHYDRO-AGAROFURANE + beta-SELINENE	0,39
38	46,55	alpha-ZINGIBERENE	0,44
39	46,69	alpha-DIHYDRO-AGAROFURAN + alpha-SELINENE	0,17
40	46,93	beta-BISABOLENE	0,60
41	47,15	beta-CURCUMENE	0,08
42	47,68	SESQUITERPENE	0,02
43	48,11	EPOXYDE SESQUITERPENIQUE	0,04
44	48,88	7-epi-alpha-SELINENE	0,28
45	49,19	delta-SELINENE	0,28
46	49,45	beta-SESQUIPELLANDRENE	0,86
47	49,56	alpha-CURCUMENE	1,23
48	49,91	Trans-SELINA-3,7-DIENE	1,04
49	50,30	SESQUITERPENIC OXIDE	0,02
50	50,85	OXYGENED SESQUITERPENE Mw=220	0,05
51	51,42	AROMATIC COMPOUND	0,03
52	51,65	AROMATIC COMPOUND	0,02
53	51,98	SESQUITERPENIC OXIDE	0,02
54	52,13	AROMATIC COMPOUND	0,04
55	53,29	OXYGENED SESQUITERPENE Mw=220	0,03
56	54,05	OXYGENED SESQUITERPENE	0,02
57	54,57	OXYGENED SESQUITERPENE Mw=220	0,05
58	55,23	OXYGENED SESQUITERPENE Mw=220	0,02
59	56,07	alpha-AGAROFURAN	0,50
60	56,45	AROMATIC COMPOUND	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
61	57,21	SESQUITERPENIC EPOXIDE	0,02
62	58,16	SESQUITERPENIC EPOXIDE	0,02
63	58,91	AROMATIC COMPOUND	0,03
64	60,09	MONOCYCLONEROLIDOL	0,25
65	60,27	MONOCYCLONEROLIDOL ISOMER	0,27
66	60,63	AROMATIC COMPOUND	0,03
67	60,96	SESQUITERPENIC EPOXIDE	0,08
68	61,26	SESQUITERPENIC EPOXIDE	0,04
69	61,52	alpha-ACORENOL	0,45
70	62,26	SESQUITERPENIC EPOXIDE	0,02
71	62,49	SESQUITERPENIC EPOXIDE	0,05
72	62,92	LEDOL	0,12
73	63,38	ELEMOL ISOMER	0,58
74	63,98	SESQUITERPENOL	0,02
75	64,15	NEROLIDOL	0,56
76	64,42	SESQUITERPENIC EPOXIDE	0,11
77	64,62	SELIN-5-en-7-OL	0,33
78	64,86	SESQUITERPENOL	0,24
79	65,37	HYDROXY-DIHYDRO-alpha-AGAROFURAN ISOMER	0,25
80	65,40	SESQUITERPENIC EPOXIDE	0,18
81	66,28	ELEMOL	8,52
82	66,58	GUAIOL	0,13
83	67,03	SESQUITERPENOL	0,12
84	67,42	10-epi-gamma-EUDESOL	7,04
85	67,68	SESQUITERPENOL	0,16
86	68,23	SESQUITERPENOL Mw=222	0,07
87	68,53	EUDESOL ISOMER	0,08
88	68,74	SELINOL ISOMER	1,32
89	68,96	EUDESOL ISOMER	0,20
90	69,28	EUDESOL ISOMER	0,43

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
91	69,48	SESQUITERPENOL Mw=222	0,81
92	69,95	SESQUITERPENOL Mw=222	0,11
93	70,16	SESQUITERPENOL	0,35
94	70,66	gamma-EUDESOL	10,04
95	70,96	AGAROSPIROL	0,67
96	71,17	SESQUITERPENOL	0,09
97	71,37	alpha-MUUROLOL	0,43
98	71,49	SESQUITERPENOL Mw=222	0,28
99	71,87	SESQUITERPENOL	0,28
100	72,12	SESQUITERPENOL Mw=222	0,74
101	72,26	SESQUITERPENOL	0,33
102	72,95	VALERIANOL	19,04
103	73,29	alpha-EUDESOL	6,78
104	73,59	7-epi-alpha-EUDESOL	10,27
105	73,74	beta-EUDESOL	9,14
106	74,03	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0,11
107	74,25	SESQUITERPENOL Mw=220	0,31
108	74,55	EUDESMA-7-EN-4-OL	0,21
109	74,76	SESQUITERPENOL	0,10
110	75,23	SESQUITERPENOL	0,12
111	75,40	SESQUITERPENONE Mw=218	0,09
112	75,81	EPOXY-OXYGENED COMPOUND Mw=238	0,16
113	76,29	SESQUITERPENOL Mw=220	0,09
114	76,46	EPOXY-OXYGENED COMPOUND	0,34
115	76,61	SELIN-11-EN-4-OL	0,19
116	77,11	EPOXI-OXYGENED COMPOUND	0,48
117	77,37	SESQUITERPENOL	0,08
118	77,97	SESQUITERPENOL	0,11
119	78,16	SESQUITERPENOL	0,55
120	78,54	SESQUITERPENOL Mw=222	0,55

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
121	79,05	SESQUITERPENOL	0,09
122	79,23	FARNESOL	0,18
123	79,44	ZINGIBEROL	0,05
124	79,81	SESQUITERPENOL Mw=222	0,44
125	80,10	SESQUITERPENOL	0,07
126	80,28	EPOXY-OXYGENED COMPOUND Mw=236	0,14
127	80,86	SESQUITERPENOL	0,14
128	83,02	SESQUITERPENOL Mw=220	0,08
129	83,30	SESQUITERPENOL Mw=222	0,05
130	83,60	SESQUITERPENOL Mw=222	0,38
131	85,35	SESQUITERPENOL Mw=220	0,04
132	85,79	DRIMENOL	2,69
133	88,62	SESQUITERPENOL Mw=220	0,05
134	90,71	COMPOUND Mw=218	0,08
135	90,93	COMPOUND Mw=218	0,04
136	94,13	SESQUITERPENONE Mw=218	0,06
137	95,65	AROMATIC COMPOUND	0,03
138	103,20	SESQUITERPENONE Mw=218	0,03
		TOTAL	99,99

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