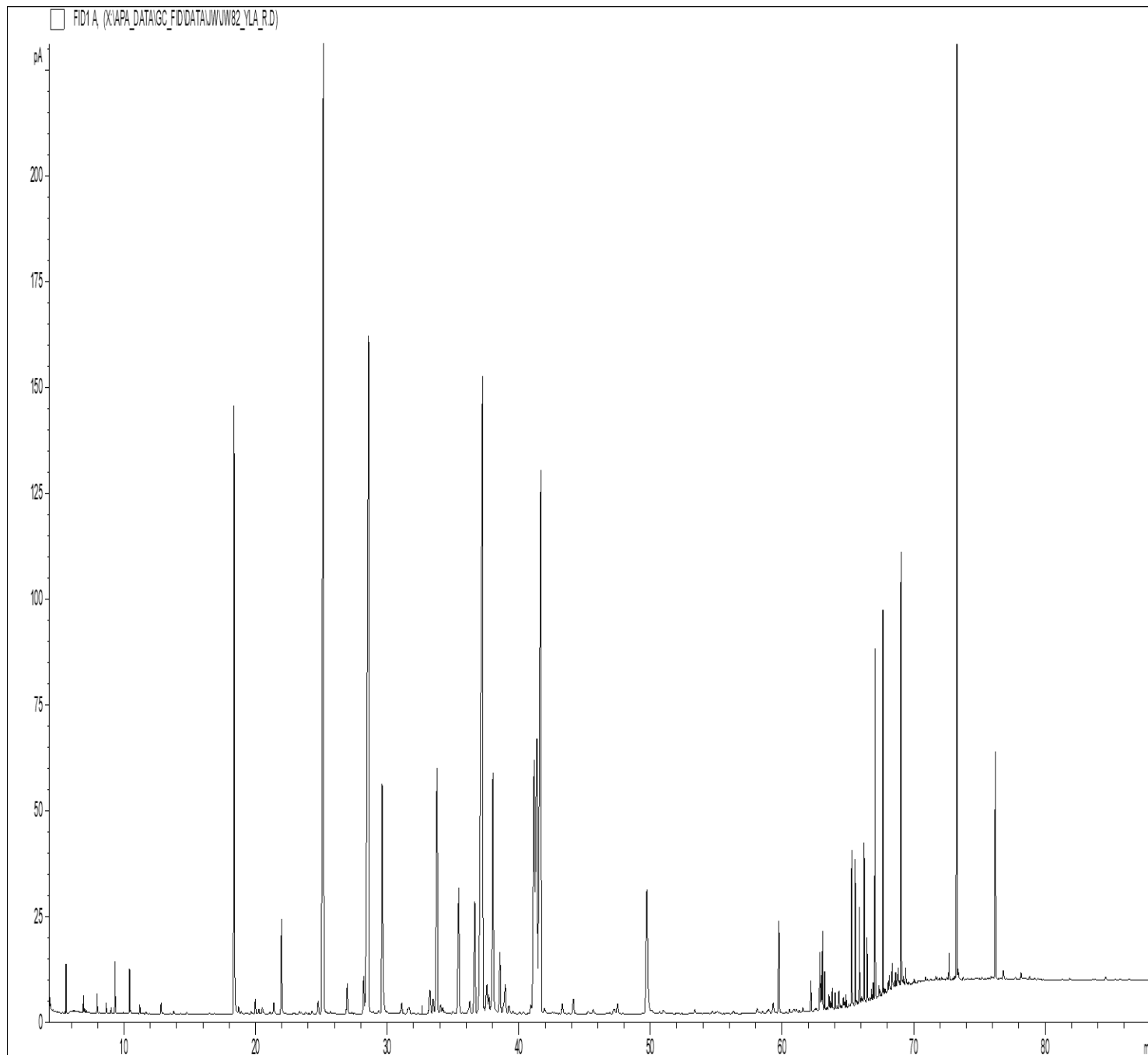


GCMS ANALYSIS

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1)– 11154

DATE: June 7, 2023



GCMS ANALYSIS (cont'd.)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1) – 11154

Peak	RT (min)	Compound	%
1	5.59	alpha-PINENE	0.18
2	6.92	beta-PINENE	0.07

3	7.00	SABINENE	0.02
4	7.95	beta-MYRCENE	0.09
5	8.65	ISOPRENYL ACETATE	0.05
6	9.03	LIMONENE	0.03
7	9.33	1,8-CINEOLE	0.26
8	10.42	PRENYL ACETATE	0.23
9	10.52	p-CYMENE	0.02
10	11.21	HEXYL ACETATE	0.05
11	12.83	3-HEXEN-1-OL ACETATE	0.07
12	13.78	5-HEPTEN-2-ONE, 6-METHYL-	0.02
13	14.77	2-PENTANONE, 4-HYDROXY-4-METHYL-	0.01
14	18.37	METHYL-p-CRESOL	4.43
15	18.71	LINALOOL cis-OXIDE	0.06
16	18.91	SESQUITERPENE	0.02
17	19.67	SESQUITERPENE	0.02
18	19.99	alpha-CUBEBENE	0.12
19	20.25	LINALOOL trans-OXIDE	0.03
20	20.50	SESQUITERPENE	0.07
21	21.11	BICYCLOELEMENE	0.02
22	21.39	YLANGENE	0.10
23	21.97	alpha-COPAENE	0.83
24	22.89	SESQUITERPENE	0.01
25	23.32	BENZALDEHYDE	0.03
26	23.46	SESQUITERPENE	0.02
27	23.81	CYPERENE	0.02
28	24.28	SESQUITERPENE	0.03
29	24.75	beta1-CUBEBENE	0.14
30	25.15	LINALOOL	11.05

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1) – 11154

Peak	RT (min)	Compound	%
31	25.68	LINALYL ACETATE	0.02
32	26.96	epsilon-CADINENE	0.31
33	27.33	ELEMENE ISOMER	0.02
34	28.22	beta-CUBEBENE	0.37
35		beta-ELEMENE	
36	28.59	beta-CARYOPHYLLENE	11.03
37	28.95	SESQUITERPENE	0.03
38	29.34	AROMADENDRENE	0.03
39	29.62	METHYL BENZOATE	2.64
40	29.99	SESQUITERPENE	0.02
41	31.10	CADINA-3,5-DIENE	0.13
42	31.67	GERMACRENE A	0.14
43	33.24	ZONARENE	0.34
44		ETHYL BENZOATE	
45	33.49	ESTRAGOL	0.17
46	33.79	alpha-HUMULENE	3.04
47	34.07	E-beta-FARNESENE	0.11
48	34.23	4,5-di-epi-ARISTOLOCHENE	0.07
49	34.98	NERAL	0.03
50	35.43	gamma-MUUROLENE	1.61
51	36.27	alpha-TERPINEOL	0.20
52	36.66	Z,E-alpha-FARNESENE	1.39
53	37.24	GERMACRENE D	12.17
54	37.35	MUUROLADIENE ISOMER	0.06
55	37.58	MUUROLENE ISOMER	0.46
56	37.72	SESQUITERPENE	0.21
57	38.03	BENZYL ACETATE	2.94
58	38.57	alpha-MUUROLENE	0.74
59	38.88	GERANIAL	0.11
60	38.97	BICYCLOGERMACRENE	0.37

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1) – 11154

Peak	RT (min)	Compound	%
61	39.24	SESQUITERPENE	0.13
62	39.55	TERPENIC COMPOUND	0.04
63	40.05	beta-CURCUMENE	0.02
64	40.36	SESQUITERPENE	0.02
65	40.91	SESQUITERPENE	0.11
66	41.16	E,E-alpha-FARNESENE	5.01
67	41.37	delta-CADINENE	2.72
68	41.67	GERANYL ACETATE	8.72
69	41.80	gamma-CADINENE	0.80
70	41.94	METHYL SALICYLATE	0.10
71	42.56	beta-SESQUIPHELLANDRENE	0.02
72	42.71	alpha-CURCUMENE	0.02
73	43.31	CADINA-1,4-DIENE	0.12
74	44.14	alpha-AMORPHENE	0.19
75	45.27	NEROL	0.04
76	45.65	2-PHENYLETHYL ACETATE	0.06
77	46.89	GERMACRENE B	0.02
78	47.24	trans-ANETHOL	0.05
79	47.30	cis-CALAMENENE	0.04
80	47.50	trans-CALAMENENE	0.14
81	49.72	GERANIOL	2.19
82	50.13	BUTYL BENZOATE	0.02
83	50.69	PHENYLMETHYL BUTYRATE	0.02
84	50.99	BENZYL ALCOHOL	0.07
85	53.37	Epi-CUBEBOL	0.06
86	54.69	alpha-CALACORENE	0.04
87	55.08	HUMULENE EPOXIDE	0.05
88	55.26	PHENYLACETONITRILE	0.01
89	56.30	SESQUITERPENOL	0.05
90	58.10	CUBEBOL	0.07

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1)– 11154

Peak	RT (min)	Compound	%
91	58.27	AROMATIC COMPOUND	0.02
92	58.52	AROMATIC COMPOUND	0.03
93	58.87	beta-CALACORENE	0.03
94	58.98	COMPOUND Mw=200	0.06
95	59.33	ISOCARYOPHYLLENE OXIDE	0.13
96	59.76	CARYOPHYLLENE OXIDE	0.80
97	60.57	AROMATIC ESTER	0.03
98	60.87	SESQUITERPENOL	0.03
99	60.92	SESQUITERPENOL	0.03
100	61.07	AROMATIC COMPOUND	0.04
101	61.32	SESQUITERPENOL	0.01
102	61.58	METHYLEUGENOL	0.05
103	62.19	NEROLIDOL	0.10
104	62.21	EPOXY-6,7-HUMULENE	0.10
105	62.51	GERMACRENE D-4-OL	0.03
106	62.62	SESQUITERPENOL	0.03
107	62.87	JUNEOL	0.42
108	63.00	Epi-CUBENOL	0.22
109	63.08	PRENYL BENZOATE	0.43
110	63.24	CUBENOL	0.22
111	63.42	ALIPHATIC ESTER	0.02
112	63.55	p-CRESOL	0.08
113	63.57	VIRIDIFLOROL	0.07
114	63.68	SESQUITERPENOL	0.04
115	63.81	GUAIOL	0.12
116	63.90	COMPOUND Mw=166	0.01
117	64.03	AROMATIC COMPOUND	0.10
118	64.18	AROMATIC COMPOUND	0.02
119	64.32	COMPOUND Mw=220	0.13
120	64.49	COMPOUND Mw=222	0.02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1) – 11154

Peak	RT (min)	Compound	%
121	64.66	2-PHENYLETHYL METHYLVALERATE	0.10
122	64.76	cis-3-HEXENYL BENZOATE	0.03
123	64.87	SPATHULENOL	0.07
124	65.08	SESQUITERPENOL	0.02
125	65.29	CINNAMYL ACETATE	0.81
126	65.56	EUGENOL	0.67
127	65.67	SESQUITERPENOL	0.03
128	65.89	T-CADINOL	0.48
129	66.03	METHYLISOEUGENOL	0.04
130	66.10	PHENOLIC COMPOUND Mw=150	0.02
131	66.24	alpha-MUUROLOL	0.70
132	66.46	delta-CADINOL	0.28
133	66.49	CADINOL ISOMER	0.18
134	66.79	SESQUITERPENOL	0.06
135	66.93	SESQUITERPENOL	0.09
136	67.07	alpha-CADINOL	1.52
137	67.37	EUGENYL ACETATE	0.05
138	67.66	FARNESYL ACETATE	1.44
139	67.73	FARNESAL	0.03
140	67.83	AROMATIC COMPOUND	0.04
141	68.04	SESQUITERPENIC OXIDE	0.04
142	68.15	AROMATIC COMPOUND	0.11
143	68.37	CHRYSANTHEMIC COMPOUND	0.15
144	68.55	CHAVICOL	0.02
145	68.64	AROMATIC COMPOUND	0.06
146	68.77	TERPENIC COMPOUND	0.05
147	68.82	ALIPHATIC ESTER	0.09
148	69.04	E,E-FARNESOL	1.97
149	69.22	COMPOUND Mw=220	0.03
150	69.29	AROMATIC COMPOUND	0.01

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#1) – 11154

Peak	RT (min)	Compound	%
151	69.39	COMPOUND Mw=220	0.10
152	69.60	AROMATIC COMPOUND	0.02
153	69.69	AROMATIC COMPOUND	0.02
154	70.04	AROMATIC COMPOUND	0.03
155	70.91	AROMATIC COMPOUND	0.02
156	71.68	SESQUITERPENOL	0.02
157	71.78	AROMATIC COMPOUND	0.02
158	72.15	VANILLIN	0.02
159	72.54	COMPOUND Mw=220	0.02
160	72.70	GERANYL BENZOATE	0.13
161	73.14	ALIPHATIC ESTER	0.02
162	73.29	BENZYL BENZOATE	7.27
163	73.39	TERPENIC COMPOUND	0.06
164	73.77	TERPENIC COMPOUND	0.01
165	75.88	AROMATIC COMPOUND	0.02
166	76.22	BENZYL SALICYLATE	1.58
167	76.82	COMPOUND Mw=220	0.10
168	77.76	TERPENIC COMPOUND	0.02
169	78.17	AROMATIC COMPOUND	0.06
170	78.83	TERPENIC COMPOUND	0.02
171	79.22	TERPENIC COMPOUND	0.01
172	84.59	TERPENIC COMPOUND	0.03
		TOTAL	99.96

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