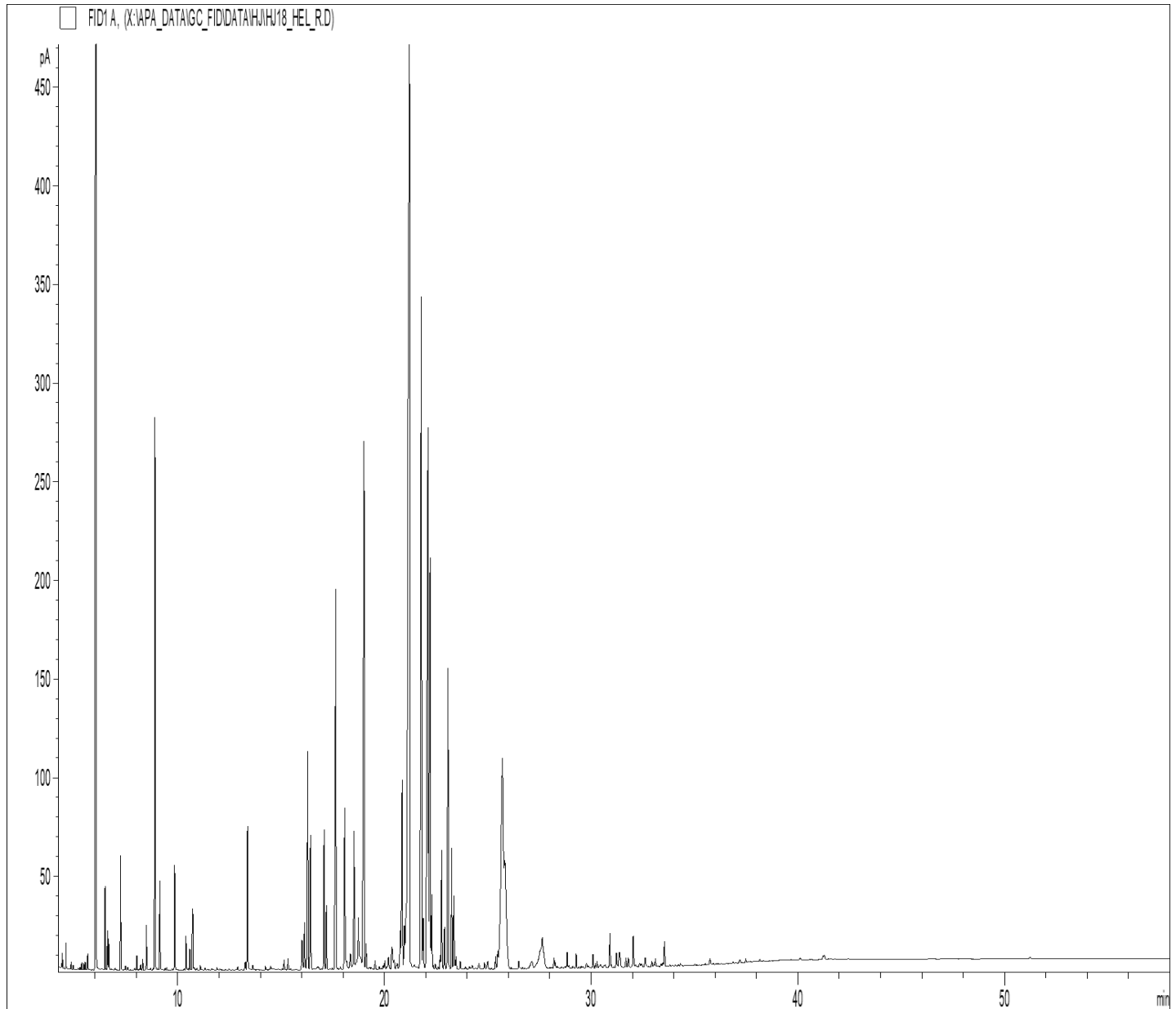


GCMS ANALYSIS

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

DATE: April 22, 2022



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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
1	4,59	2-HEPTENE, 2-METHYL-	0,10
2	4,83	NONANE	0,03
3	4,94	ISOVALERALDEHYDE	0,02
4	5,35	PROPANONE ISOMER	0,03
5	5,44	3-PENTANONE	0,03
6	5,52	BORNYLENE	0,04
7	5,64	3-PENTANONE, 2-METHYL-	0,07
8	6,05	alpha-PINENE	25,67
9	6,48	alpha-FENCHENE	0,36
10	6,60	CAMPHENE	0,17
11	6,66	3-HEXANONE, 4-METHYL-	0,15
12	7,23	beta-PINENE	0,52
13	7,47	PINADIENE	0,02
14	7,57	delta2-CARENE	0,01
15	7,92	COMPOUND Mw=152	0,01
16	8,02	beta-MYRCENE	0,07
17	8,20	alpha-PHELLANDRENE	0,03
18	8,30	ISOBUTYL 2-METHYLBUTYRATE	0,05
19	8,48	alpha-TERPINENE	0,23
20	8,89	LIMONENE	2,96
21	9,13	1,8-CINEOLE	0,46
22	9,46	cis-beta-OCIMENE	0,01
23	9,85	gamma-TERPINENE	0,52
24	9,89	trans-beta-OCIMENE	0,03
25	10,39	p-CYMENE	0,18
26	10,58	2-METHYLBUTYL 2-METHYLBUTYRATE	0,11
27	10,72	TERPINOLENE	0,46
28	19,0	ISOBUTYL ANGELATE	0,11
29	10,79	ALIPHATIC ESTER	0,02
30	10,92	AMYL ISOVALERATE	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
31	11,09	3-HEXEN-1-OL ACETATE	0,03
32	11,31	TRIDECANE	0,01
33	11,89	5-HEPTEN-2-ONE, 6-METHYL-	0,02
34	12,90	ALIPHATIC ESTER	0,02
35	13,27	ISOAMYL ANGELATE	0,07
36	13,37	2-METHYLBUTYL ANGELATE	0,84
37	13,63	2-NONANONE	0,04
38	14,24	TETRADECANE	0,03
39	14,49	HEXYL 2-METHYLBUTYRATE	0,04
40	14,62	METHYL-p-CRESOL	0,02
41	14,85	ALIPHATIC ESTER	0,02
42	15,14	HEXYL ANGELATE	0,06
43	15,30	NERYL OXIDE	0,04
44	15,33	ALIPHATIC ESTER	0,04
45	15,46	SESQUITERPENE	0,01
46	16,01	ISOLEDENE	0,25
47	16,13	YLANGENE	0,33
48	16,29	alpha-COPAENE	1,62
49	16,42	ISOITALICENE	0,87
50	16,56	2-NONANOL	0,02
51	16,78	HEPTANE-3,5-DIONE, 2,4-DIMETHYL-	0,07
52	17,08	LINALOOL	0,78
53	17,19	HEXYL ANGELATE ISOMER	0,39
54	17,37	SATIVENE	0,02
55	17,47	alpha-GURJUNENE	0,02
56	17,64	ITALICENE	3,08
57	17,75	ITALICENE ISOMER	0,01
58	17,86	ITALICENE ISOMER	0,03
59	17,97	3,5-DIMETHYLOCTANE-4,6-DIONE	0,70
60	18,07	alpha-cis-BERGAMOTENE	1,18

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
61	18,16	FENCHOL	0,07
62	18,35	ISOCARYOPHYLLENE	0,12
63	18,53	alpha-trans-BERGAMOTENE	0,90
64	18,75	TERPINENE-4-OL	0,27
65	19,01	beta-CARYOPHYLLENE	4,84
66	19,11	6,9-GUAIADIENE	0,18
67	19,20	HEXYL CAPROATE	0,01
68	19,26	COMPOUND Mw=168	0,03
69	19,36	SESQUITERPENE	0,02
70	19,55	COPACAMPHENE	0,07
71	19,75	SESQUITERPENE	0,02
72	19,85	COMPOUND Mw=168	0,02
73	19,95	epi-beta-SANTALENE	0,04
74	20,02	SESQUITERPENE	0,07
75	20,11	ALIPHATIC ESTER	0,02
76	20,20	ALLO-AROMADENDRENE	0,13
77	20,37	E-beta-FARNESENE	0,27
78	20,47	SESQUITERPENE	0,08
79	20,58	SESQUITERPENE	0,03
80	20,63	ZONARENE	0,06
81	20,77	alpha-HUMULENE	0,30
82	20,86	CURCUMENE ISOMER	0,09
83	42,3	gamma-SELINENE	1,25
84	20,90	CURCUMENE ISOMER	0,41
85	20,96	Z-beta-FARNESENE	0,34
86	21,05	gamma-MUUROLENE	0,50
87	21,21	gamma-CURCUMENE	13,90
88	21,46	SESQUITERPENE	0,04
89	21,59	COMPOUND Mw=222	0,04
90	21,79	NERYL ACETATE	5,84

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
91	21,88	EREMOPHILENE	0,43
92	22,11	beta-SELINENE	6,18
93	22,21	alpha-SELINENE	3,64
94	22,30	beta-CURCUMENE	0,52
95	22,37	SESQUITERPENE	0,03
96	22,46	SESQUITERPENE	0,05
97	22,60	SESQUITERPENE Mw=202	0,02
98	22,70	ALIPHATIC ESTER	0,09
99	22,77	delta-CADINENE	0,82
100	22,91	gamma-CADINENE	0,28
101	23,00	7-epi-alpha-SELINENE	0,11
102	23,08	alpha-CURCUMENE	1,92
103	23,10	trans-alpha-BISABOLENE	0,11
104	23,26	NERYL PROPIONATE	0,76
105	23,36	NEROL	0,48
106	23,47	CADINA-1,4-DIENE	0,11
107	23,67	alpha-AMORPHENE	0,05
108	23,92	2-PHENYLETHYL ACETATE	0,02
109	24,11	COMPOUND Mw=222	0,03
110	24,25	beta-DAMASCENONE	0,04
111	24,41	AROMATIC COMPOUND Mw=194	0,01
112	24,58	MENTHATRIENIC COMPOUND	0,06
113	24,84	trans-CALAMENENE	0,05
114	24,97	COMPOUND Mw=220	0,02
115	25,01	NERYL ISOBUTYRATE	0,06
116	25,38	NERYL 2-METHYLBUTYRATE	0,09
117	25,49	COMPOUND Mw=220	0,14
118	25,71	ITALIDIONE I	4,86
119	25,82	ITALIDIONE II	2,09
120	26,13	ITALIDIONE ISOMER	0,01

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GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
121	26,50	alpha-CALACORENE	0,07
122	26,69	cis-JASMONE	0,02
123	27,14	ITALIDIONE ISOMER	0,18
124	27,23	ITALIDIONE III	1,02
125	27,64	NERYL VALERATE	0,08
126	28,00	ALIPHATIC ESTER	0,01
127	28,21	CARYOPHYLLENE OXIDE	0,07
128	28,27	NERYL METHYLVALERATE	0,04
129	28,36	COMPOUND Mw=236	0,03
130	28,72	ALIPHATIC DIONE	0,03
131	28,84	NEROLIDOL	0,11
132	28,93	PENTADECANAL	0,03
133	29,11	CAPRYLIC ACID	0,02
134	29,28	NERYL CAPROATE	0,10
135	29,41	AROMATIC COMPOUND Mw=200	0,01
136	29,52	SESQUITERPENOL	0,02
137	29,58	Epi-CUBENOL	0,01
138	29,78	CUBENOL	0,06
139	29,88	GERANYL TIGLATE	0,03
140	30,10	GUAJOL	0,10
141	30,22	COMPOUND Mw=235	0,03
142	30,29	2-PHENYLETHYL TIGLATE	0,05
143	30,42	SESQUITERPENONE	0,02
144	30,46	ALIPHATIC DIONE	0,04
145	30,53	AROMATIC COMPOUND	0,01
146	30,65	10-epi-gamma-EUDESOL	0,03
147	30,69	SESQUITERPENOL	0,02
148	30,91	EUDESMA-5-EN-11-alpha-OL	0,25
149	30,98	SESQUITERPENOL	0,02
150	31,23	EUDESOL ISOMER	0,13

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: HELICHRYSUM ORGANIC ESSENTIAL OIL – 50067

Peak	RT (min)	Compound name	%
151	31,38	beta-BISABOLOL	0,14
152	31,40	COMPOUND Mw=250	0,06
153	31,69	7-epi-beta-EUDESOL	0,07
154	31,75	gamma-EUDESOL	0,04
155	31,80	T-CADINOL	0,04
156	32,04	5-epi-7-epi-alpha-EUDESOL	0,25
157	32,15	alpha-MUUROLOL	0,02
158	32,34	CARVACROL	0,04
159	32,44	delta-CADINOL	0,04
160	32,60	BULNESOL	0,03
161	32,62	Epi-alpha-BISABOLOL	0,05
162	32,67	alpha-BISABOLOL	0,02
163	32,94	alpha-EUDESOL	0,04
164	33,04	alpha-CADINOL	0,02
165	33,11	beta-EUDESOL	0,06
166	33,39	Z,E-FARNESYL ACETATE	0,03
167	33,48	ALIPHATIC ESTER	0,03
168	33,55	EUDESMA-7(11)-EN-4-OL	0,17
169	33,82	ALIPHATIC ESTER	0,01
170	34,08	cis-alpha-BISABOLOL	0,01
171	34,24	BERGAMOTOL ISOMER	0,02
172	34,33	CARYOPHYLLA-2,6-DIEN-5-alpha-OL	0,03
173	35,02	BERGAMOTOL ISOMER	0,02
174	35,76	ALIPHATIC DIONE	0,05
175	37,19	AROMATIC COMPOUND	0,03
176	37,48	AROMATIC COMPOUND	0,03
177	38,18	LAURIC ACID	0,03
178	40,13	ALIPHATIC DIONE	0,02
179	41,22	ALIPHATIC DIONE	0,02
180	41,28	ALIPHATIC DIONE	0,04
181	51,23	SQUALENE	0,03
		TOTAL	99,96

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