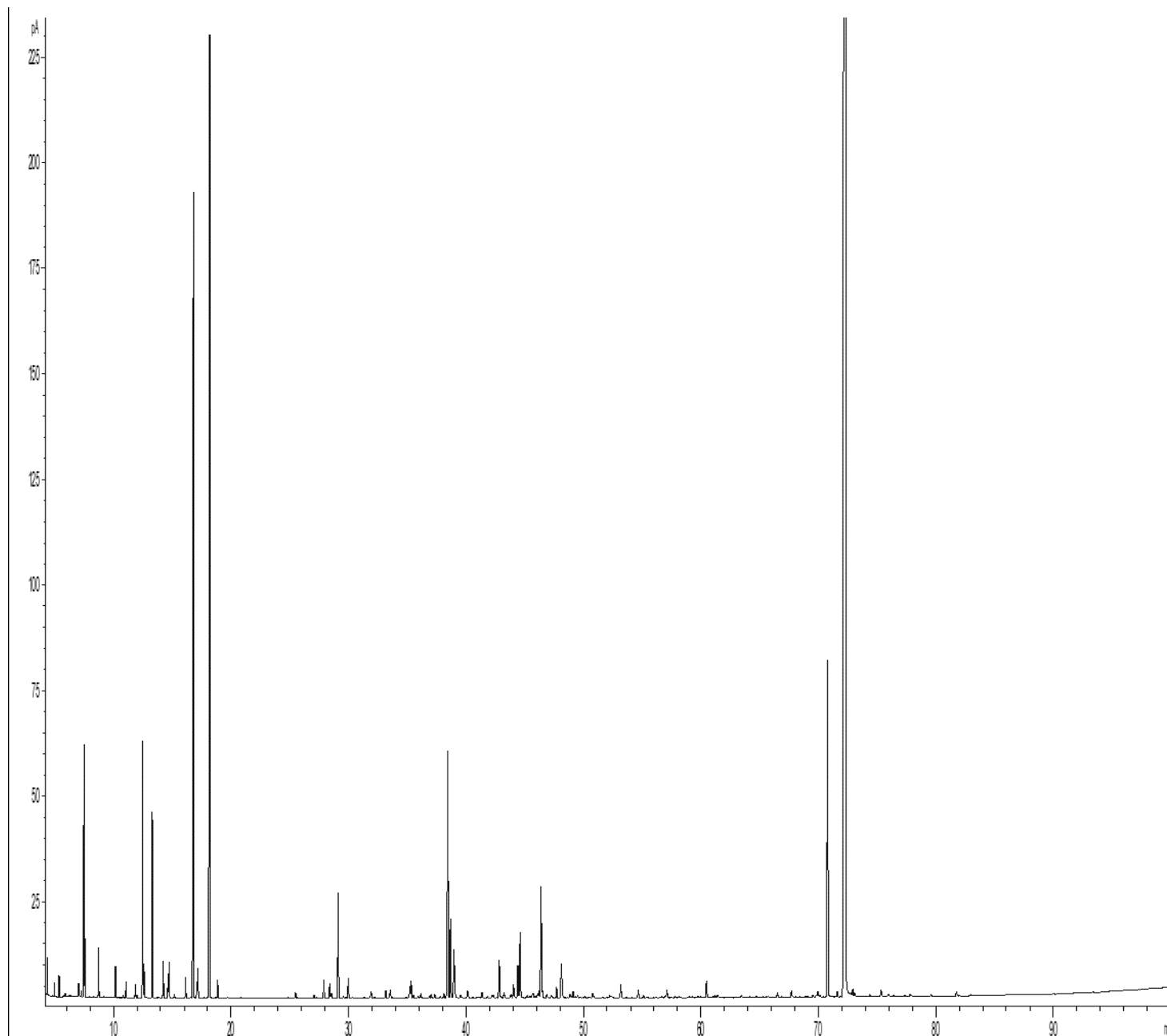


## GCMS ANALYSIS

PRODUCT NAME: ORIGANUM ORGANIC ESSENTIAL OIL - 50039

DATE: November 06, 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: ORIGANUM ORGANIC ESSENTIAL OIL - 50039

Peak	RT (min)	Compound name	%
1	4,36	ACETONE	0,10
2	4,98	ETHYL ACETATE	0,04
3	5,32	BUTANAL, 2-METHYL-	0,05
4	5,37	ISOVALERALDEHYDE	0,06
5	5,89	FURAN, 2-ETHYL-	0,01
6	7,02	METHYL 2-METHYLBUTYRATE	0,05
7	7,08	TRICYCLEN	0,01
8	7,24	METHYL ISOVALERATE	0,02
9	7,43	<b>alpha-PINENE</b>	<b>0,64</b>
10	7,51	<b>alpha-THUYENE</b>	<b>0,90</b>
11	8,72	CAMPHENE	0,21
12	10,16	beta-PINENE	0,14
13	10,82	PINADIENE	0,01
14	11,05	THUYA-2,4-DIENE	0,08
15	11,85	delta3-CARENE	0,07
16	12,47	<b>beta-MYRCENE</b>	<b>1,28</b>
17	12,59	alpha-PHELLANDRENE	0,16
18	13,29	<b>alpha-TERPINENE</b>	<b>0,96</b>
19	14,22	LIMONENE	0,20
20	14,62	1,8-CINEOLE	0,07
21	14,71	beta-PHELLANDRENE	0,20
22	15,19	2-HEXENAL	0,02
23	16,14	cis-beta-OCIMENE	0,12
24	16,80	<b>gamma-TERPINENE</b>	<b>5,32</b>
25	17,08	trans-beta-OCIMENE	0,09
26	17,17	3-OCTANONE	0,17
27	18,19	<b>p-CYMENE</b>	<b>6,44</b>
28	18,87	TERPINOLENE	0,11
29	25,49	3-OCTANOL	0,04
30	27,08	COMPOUND Mw=152	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ORIGANUM ORGANIC ESSENTIAL OIL - 50039

Peak	RT (min)	Compound name	%
31	27,91	COMPOUND Mw=152	0,13
32	28,41	alpha-p-DIMETHYLSTYRENE	0,11
33	28,56	MENTHATRIENIC COMPOUND	0,04
34	29,13	1-OCTEN-3-OL	0,68
35	29,56	alpha-CUBEBENE	0,01
36	29,99	trans-THUYANOL	0,14
37	31,36	YLANGENE	0,01
38	31,88	DIHYDROEDULAN ISOMER	0,01
39	31,93	alpha-COPAENE	0,05
40	33,18	COMPOUND Mw=152	0,06
41	33,53	CAMPHOLENIC ALCOHOL	0,01
42	33,57	beta-BOURBONENE	0,06
43	35,23	cis-THUYANOL	0,08
44	35,34	<b>LINALOOL</b>	<b>0,11</b>
45	35,53	1-NONEN-3-OL	0,02
46	35,94	LINALYL ACETATE	0,02
47	36,18	trans-p-MENTH-2-EN-1-OL	0,04
48	36,88	BORNYL FORMATE	0,01
49	37,04	epsilon-CADINENE	0,03
50	37,36	BORNYL ACETATE	0,03
51	37,84	alpha-trans-BERGAMOTENE	0,02
52	38,13	beta-CUBEBENE	0,04
53	38,47	<b>beta-CARYOPHYLENE</b>	<b>1,94</b>
54	38,69	METHYL CARVACROL ETHER	0,56
55	38,98	<b>TERPINENE-4-OL</b>	<b>0,43</b>
56	39,00	cis-DIHYDROCARVONE	0,03
57	39,57	AROMADENDRENE	0,02
58	40,14	TERPENIC ESTER	0,05
59	40,18	trans-DIHYDROCARVONE	0,02
60	41,38	ALLO-AROMADENDRENE	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ORIGANUM ORGANIC ESSENTIAL OIL - 50039

Peak	RT (min)	Compound name	%
61	41,84	trans-PINOCARVEOL	0,02
62	42,24	FURANIC COMPOUND	0,02
63	42,34	ZONARENE	0,02
64	42,83	alpha-HUMULENE	0,30
65	42,97	cis-4,5-MUUROLADIENE	0,01
66	43,25	CARVOTANACETONE	0,04
67	43,85	LAVANDULAL	0,03
68	44,05	gamma-MUUROLENE	0,10
69	44,43	alpha-TERPINEOL	0,24
70	44,63	BORNEOL	0,48
71	45,23	SESQUITERPENE	0,01
72	45,46	SESQUITERPENE	0,01
73	45,69	PELLANDRAL	0,02
74	45,72	PIPERITONE	0,03
75	46,15	CARVONE	0,02
76	46,20	alpha-MUUROLENE	0,05
77	46,40	beta-BISABOLENE	0,86
78	46,52	COMPOUND Mw=152	0,04
79	46,90	trans-PIPERITOL	0,03
80	47,27	trans-ISOPIPERITENOL	0,02
81	47,72	E,E-alpha-FARNESENE	0,08
82	48,13	delta-CADINENE	0,27
83	48,18	gamma-CADINENE	0,09
84	48,87	beta-SESQUIPELLANDRENE	0,03
85	48,98	CUMINAL	0,01
86	49,14	trans-alpha-BISABOLENE	0,05
87	49,32	CADINA-1,4-DIENE	0,01
88	49,53	MYRTENOL	0,02
89	50,12	alpha-AMORPHENE	0,02
90	50,52	PIPERITONE, 2-HYDROXY-	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ORIGANUM ORGANIC ESSENTIAL OIL - 50039

Peak	RT (min)	Compound name	%
91	50,80	trans-SABINOL	0,03
92	52,27	cis-CALAMENENE	0,02
93	52,40	trans-CALAMENENE	0,02
94	53,20	p-CYMENE-8-OL	0,11
95	54,67	CARVACRYL ACETATE	0,06
96	55,11	MYRCENOL	0,02
97	57,11	PHENOLIC COMPOUND Mw=164	0,07
98	58,15	ALIPHATIC ALCOHOL	0,01
99	59,04	ALIPHATIC ALCOHOL	0,01
100	59,78	PIPERITENONE OXIDE	0,02
101	59,99	ISOCARYOPHYLLENE EPOXIDE	0,01
102	60,49	CARYOPHYLLENE EPOXIDE	0,14
103	61,07	SESQUITERPENIC EPOXIDE	0,01
104	61,22	SESQUITERPENIC EPOXIDE	0,02
105	61,43	KETONIC COMPOUND	0,03
106	63,46	EPOXY-6,7-HUMULENE	0,02
107	66,53	CUMINOL	0,04
108	67,73	SPATHULENOL	0,05
109	69,55	EUGENOL	0,02
110	69,96	ISOTHYMOL	0,05
111	70,11	T-CADINOL	0,02
112	70,79	<b>THYMOL</b>	<b>2,55</b>
113	71,62	ISOCARVACROL	0,05
114	72,29	<b>CARVACROL</b>	<b>70,99</b>
115	72,78	SESQUITERPENOL	0,02
116	72,94	PHENOLIC COMPOUND Mw=150	0,05
117	73,09	beta-EUDESOL	0,03
118	74,39	PHENOLIC COMPOUND Mw=150	0,01
119	75,34	PHENOLIC COMPOUND Mw=150	0,06
120	75,98	PHENOLIC COMPOUND Mw=150	0,02
121	77,79	SESQUITERPENIC EPOXIDE	0,02
122	79,61	SESQUITERPENIC EPOXIDE	0,01
123	81,76	PHENOLIC COMPOUND Mw=148	0,04
		<b>TOTAL</b>	<b>99,96</b>

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