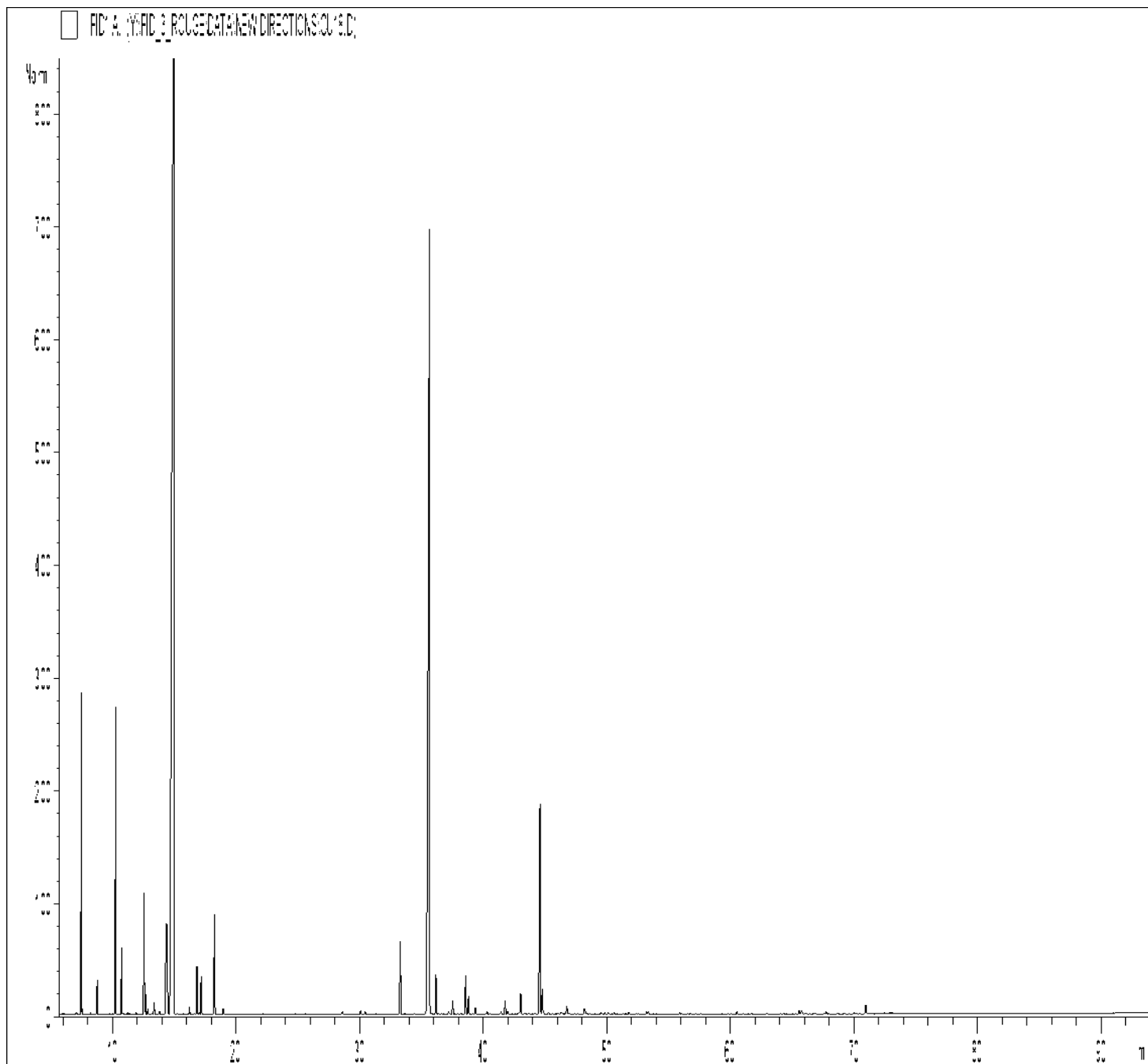


GCMS ANALYSIS

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL - 50052

DATE: October 27, 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: MARJORAM ORGANIC ESSENTIAL OIL - 50052

Peak	RT (min)	Compound name	%
1	6,11	ETHYL ISOBUTYRATE	0,01
2	7,06	METHYL 2-METHYLBUTYRATE	0,01
3	7,11	TRICYCLENE	0,02
4	7,48	<b>alpha-PINENE</b>	<b>3,08</b>
5	7,55	alpha-THUYENE	0,05
6	8,21	ETHYL 2-METHYLBUTYRATE	0,02
7	8,49	alpha-FENCHENE	0,01
8	8,77	CAMPHENE	0,37
9	9,78	OCTADIENE DIMETHYL ISOMERE	0,01
10	10,25	<b>beta-PINENE</b>	<b>3,90</b>
11	10,73	SABINENE	0,78
12	10,89	PINADIENE	0,03
13	11,22	delta2-CARENE	0,03
14	11,35	p-MENTH-2-ENE	0,02
15	11,92	delta3-CARENE	0,03
16	12,56	beta-MYRCENE	1,65
17	12,67	alpha-PHELLANDRENE	0,24
18	12,86	psi-LIMONENE	0,08
19	13,36	alpha-TERPINENE	0,17
20	13,80	1,8-CINEOLE, 2,3-DEHYDRO	0,05
21	14,38	<b>LIMONENE</b>	<b>3,01</b>
22	14,95	<b>1,8-CINEOLE</b>	<b>47,30</b>
23	15,25	MENTHATRIENE ISOMER	0,01
24	16,23	cis-beta-OCIMENE	0,09
25	16,62	trans-ARBUSCULON	0,01
26	16,85	gamma-TERPINENE	0,67
27	17,06	Trans-beta-OCIMENE	0,53
28	17,18	3-OCTANONE	0,02
29	18,26	p-CYMENE	1,47
30	18,97	TERPINOLENE	0,08

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL - 50052

Peak	RT (min)	Compound name	%
31	24,81	1-OCTEN-3-YL ACETATE	0,01
32	25,58	3-OCTANOL	0,01
33	28,56	alpha,p-DIMETHYLSTYRENE	0,02
34	28,62	LINALOOL cis-OXIDE	0,05
35	30,08	Trans-THUYANOL	0,06
36	30,45	LINALOOL Trans-OXIDE	0,05
37	31,30	BICYCLOELEMENE	0,01
38	32,02	alpha-COPAENE	0,01
39	33,29	CAMPHOR	1,34
40	33,66	beta-BOURBONENE	0,02
41	34,42	alpha-GURJUNENE	0,03
42	35,67	<b>LINALOOL</b>	<b>25,06</b>
43	35,72	cis-THUYANOL	0,03
44	36,18	LINALYL ACETATE	0,62
45	36,39	PINOCARVONE	0,03
46	36,62	BORNYL FORMIATE	0,03
47	36,83	NOPINONE	0,03
48	37,21	epsilon-CADINENE	0,06
49	37,54	BORNYL ACETATE	0,22
50	37,72	FENCHOL	0,01
51	38,16	alpha-trans-BERGAMOTENE	0,02
52	38,58	beta-CARYOPHYLLENE	0,72
53	38,82	TERPINENE-4-OL	0,31
54	39,15	AROMADENDRENE	0,02
55	39,37	HOTRIENOL	0,11
56	40,32	MYRTENAL	0,05
57	40,54	SABINAKETONE	0,01
58	41,45	EPOXYKETONE COMPOUND	0,06
59	41,78	delta-TERPENYL ACETATE	0,24
60	41,98	ALLO-AROMADENDRENE	0,05

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL - 50052

Peak	RT (min)	Compound name	%
61	42,55	CITRONELLYL ACETATE	0,01
62	42,92	alpha-HUMULENE	0,04
63	43,04	delta-TERPINEOL	0,36
64	43,37	trans-VERBENOL	0,03
65	43,66	NERAL	0,02
66	44,14	gamma-MUUROLENE	0,02
67	44,50	TERPENYL ACETATE	0,70
68	44,60	<b>alpha-TERPINEOL</b>	<b>3,66</b>
69	44,78	BORNEOL	0,49
70	44,88	VERBENONE	0,02
71	45,28	GERMACRENE D	0,04
72	45,89	ESTER TERPENIQUE	0,01
73	46,10	alpha-MUUROLENE	0,02
74	46,30	cis-p-MENTHA-1,2-DIEN-8-OL	0,05
75	46,35	NERYL ACETATE	0,03
76	46,71	GERANIAL	0,04
77	46,76	BICYCLOGERMACRENE	0,14
78	46,96	TERPENIC ESTER	0,02
79	47,39	trans-PIPERITOL	0,02
80	47,63	METHYL BENZENE ACETATE	0,01
81	48,18	delta-CADINENE	0,11
82	48,21	GERANYL ACETATE	0,07
83	48,38	PYRANIC LINALOOL trans-OXIDE	0,03
84	48,63	CITRONELLOL	0,02
85	49,05	p-METHYLACETOPHENONE	0,01
86	49,53	trans-p-MENTHA-1,2-DIEN-8-OL	0,03
87	49,85	ETHYL BENZENEACETATE	0,04
88	50,10	MYRTENOL	0,04
89	50,39	alpha-AMORPHENE	0,01
90	50,58	NEROL	0,03

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL - 50052

Peak	RT (min)	Compound name	%
91	51,31	NERYL BUTYRATE	0,01
92	51,52	2-PHENYLETHYL ACETATE	0,02
93	51,76	GERANYL PROPIONATE	0,03
94	52,53	trans-CARVEOL	0,02
95	53,22	GERANIOL	0,04
96	53,35	p-CYMENE-8-OL	0,04
97	53,78	exo-2-HYDROXYCINEOL	0,01
98	55,80	NERYL METHYLBUTYRATE	0,02
99	55,90	2-PHENYLETHYL ALCOHOL	0,01
100	56,75	GERANYL METHYLBUTYRATE	0,01
101	60,52	CARYOPHYLLENE OXIDE	0,04
102	62,94	LEDOL	0,02
103	65,28	TERPENIC ALCOHOL Mw=152	0,01
104	65,57	ELEMOL	0,07
105	65,76	VIRIDIFLOROL	0,07
106	67,75	SPATHULENOL	0,05
107	69,98	gamma-EUDES MOL	0,03
108	70,11	T-CADINOL	0,02
109	70,96	THYMOL	0,17
110	71,85	alpha-MUUROLOL	0,01
111	72,33	CARVACROL	0,02
112	72,49	alpha-EUDES MOL	0,03
113	72,77	alpha-CADINOL	0,01
114	72,91	beta-EUDES MOL	0,03
115	73,09	MAALIOL ISOMER	0,05
		<b>TOTAL</b>	<b>100,00</b>

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