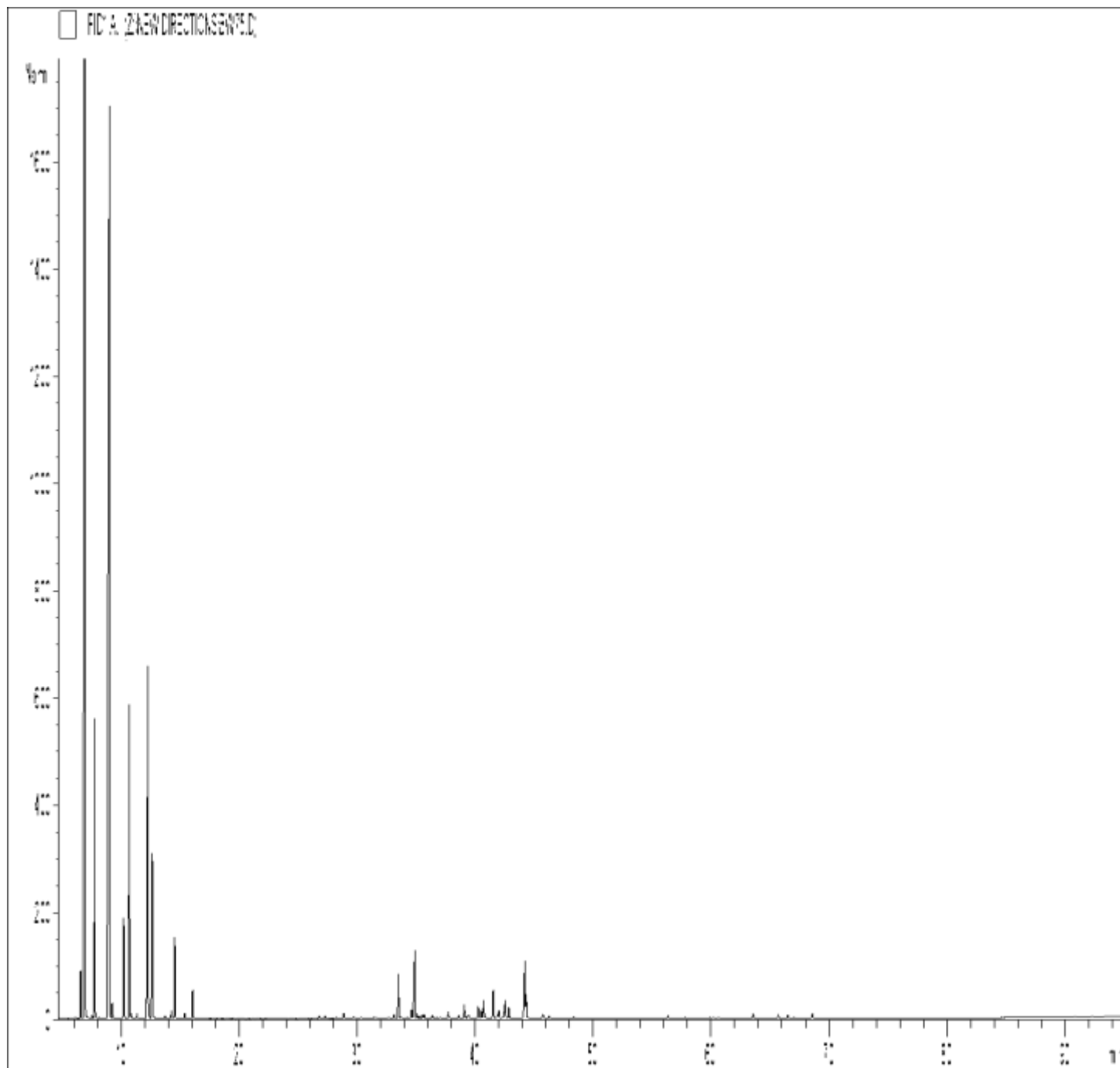


GCMS ANALYSIS

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL - 50030

DATE: September 8, 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: PINE ORGANIC ESSENTIAL OIL - 50030

Peak	RT (min)	Compound name	%
1	6,09	SANTENE	0,02
2	6,54	TRICYCLENE	0,75
3	6,92	alpha-PINENE	41,58
4	7,52	alpha-FENCHENE	0,04
5	7,74	CAMPHENE	3,43
6	8,07	HEXANAL	0,02
7	8,96	beta-PINENE	25,51
8	9,21	SABINENE	0,16
9	9,28	PINADIENE	0,06
10	10,21	delta3-CARENE	1,29
11	10,69	beta-MYRCENE	5,22
12	10,78	alpha-PHELLANDRENE	0,08
13	10,88	psi-LIMONENE	0,02
14	11,16	o-CYMENE	0,01
15	11,32	alpha-TERPINENE	0,07
16	11,87	MENTHATRIENE ISOMER	0,01
17	12,27	LIMONENE	7,85
18	12,61	beta-PHELLANDRENE + 1,8-CINEOLE	2,41
19	12,77	1,3,8-p-MENTHATRIENE	0,03
20	13,38	FURAN, 2-PENTYL-	0,01
21	13,70	Cis-beta-OCIMENE	0,03
22	14,23	gamma-TERPINENE	0,12
23	14,53	Trans-beta-OCIMENE	1,07
24	15,36	p-CYMENE	0,08
25	15,75	ISOTERPINOLENE	0,01
26	16,05	TERPINOLENE	0,43
27	18,22	PINOL	0,01
28	21,12	alpha-PINENE EPOXIDE	0,01
29	21,52	3-HEXEN-1-OL	0,01
30	22,37	FENCHONE	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL - 50030

Peak	RT (min)	Compound name	%
31	25,13	alpha-p-DIMETHYLSTYRENE	0,03
32	26,75	alpha-CUBEBENE	0,05
33	27,26	alpha-LONGIPINENE	0,05
34	27,86	BICYCLOELEMENE	0,01
35	28,07	CYCLOSATIVENE	0,01
36	28,23	YLANGENE	0,02
37	28,86	alpha-COPAENE	0,10
38	29,42	CAMPHOR	0,02
39	29,69	alpha-PINOCAMPHONE	0,04
40	30,31	beta-BOURBONENE	0,04
41	31,41	beta-PINOCAMPHONE	0,03
42	31,54	beta1-CUBEBENE	0,02
43	31,73	LINALOL	0,01
44	32,30	2-DECANONE	0,01
45	32,63	PINOCARVONE	0,04
46	33,10	LONGIFOLENE	0,08
47	33,28	epsilon-CADINENE	0,01
48	33,49	BORNYL ACETATE	0,82
49	33,67	FENCHOL	0,04
50	33,84	TERPINENE-1-OL	0,01
51	34,23	METHYL THYMOL ETHER	0,03
52	34,52	CAMPHENE HYDRATE	0,02
53	34,59	beta-ELEMENE	0,16
54	34,88	beta-CARYOPHYLLENE	1,65
55	35,06	TERPINENE-4-OL	0,10
56	35,27	2-UNDECANONE	0,04
57	35,51	6,9-GUAIADIENE	0,06
58	35,66	AROMADENDRENE	0,09
59	36,36	MYRTENAL	0,08
60	36,69	DECENYL ACETATE ISOMER	0,03

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL - 50030

Peak	RT (min)	Compound name	%
61	37,04	CADINA-3,5-DIENE	0,04
62	37,48	GERMACRENE A	0,02
63	37,73	Trans-PINOCARVEOL	0,15
64	38,48	SESQUITERPENE	0,01
65	38,63	ZONARENE	0,06
66	38,83	ESTRAGOL	0,01
67	39,07	alpha-HUMULENE	0,25
68	39,12	E-beta-FARNESENE	0,05
69	39,39	Cis-4,5-MUUROLADIENE + SESQUITERPENE	0,08
70	39,42	gamma-SELINENE	0,06
71	40,25	gamma-MUUROLENE	0,24
72	40,52	TERPENYL ACETATE	0,15
73	40,72	alpha-TERPINEOL	0,35
74	40,89	BORNEOL	0,05
75	41,17	VERBENONE	0,02
76	41,54	GERMACRENE D	0,61
77	41,79	CADINADIENE ISOMER	0,02
78	41,89	MUUROLADIENE ISOMER	0,08
79	42,02	beta-SELINENE	0,16
80	42,29	VALENCENE	0,03
81	42,45	alpha-SELINENE	0,10
82	42,54	alpha-MUUROLENE	0,38
83	42,85	BICYCLOGERMACRENE	0,22
84	42,93	METHYL PHENYL PROPANAL	0,02
85	43,29	Trans-PIPERITOL	0,01
86	43,44	SESQUITERPENE	0,01
87	44,22	delta-CADINENE	1,29
88	44,33	gamma-CADINENE	0,48
89	44,49	METHYL SALICYLATE	0,03
90	44,85	2-DODECANONE	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL - 50030

Peak	RT (min)	Compound name	%
91	45,48	MENTHADIENOL ISOMER	0,01
92	45,72	CADINA-1,4-DIENE	0,03
93	45,75	MYRTENOL	0,07
94	45,98	CAMPHOLENOL	0,01
95	46,28	alpha-AMORPHENE	0,06
96	47,62	2-TRIDECANONE	0,01
97	47,78	Trans-ANETHOL	0,01
98	48,12	SESQUITERPENE	0,01
99	48,23	cis-CALAMENENE	0,01
100	48,35	trans-CALAMENENE	0,03
101	48,95	p-CYMENE-8-OL	0,01
102	51,75	epi-CUBEBOL	0,01
103	52,71	alpha-CALACORENE	0,01
104	54,49	CUBEBOL	0,01
105	54,75	beta-CALACORENE	0,02
106	56,37	CARYOPHYLLENE EPOXIDE	0,06
107	57,19	PERILLIC ALCOHOL	0,01
108	57,77	E-METHYLEUGENOL	0,03
109	59,31	epoxy-6,7-HUMULENE	0,01
110	59,41	NEROLIDOL	0,01
111	59,91	GERMACRA-1,5-DIEN-4-OL	0,02
112	60,21	epi-CUBENOL	0,03
113	60,62	CUBENOL	0,02
114	61,23	VIRIDIFLOROL	0,01
115	63,55	SPATHULENOL	0,10
116	65,71	T-CADINOL	0,06
117	66,53	alpha-MUUROLOL	0,06
118	67,05	delta-CADINOL	0,02
119	67,71	GERANYLGERANIADIENE ISOMER Mw=272	0,06
120	68,32	ISOSPATHULENOL	0,01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL - 50030

Peak	RT (min)	Compound name	%
121	68,60	alpha-CADINOL	0,11
122	69,57	EUDESMA-7(11)-EN-4-OL	0,01
		TOTAL	99,98

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