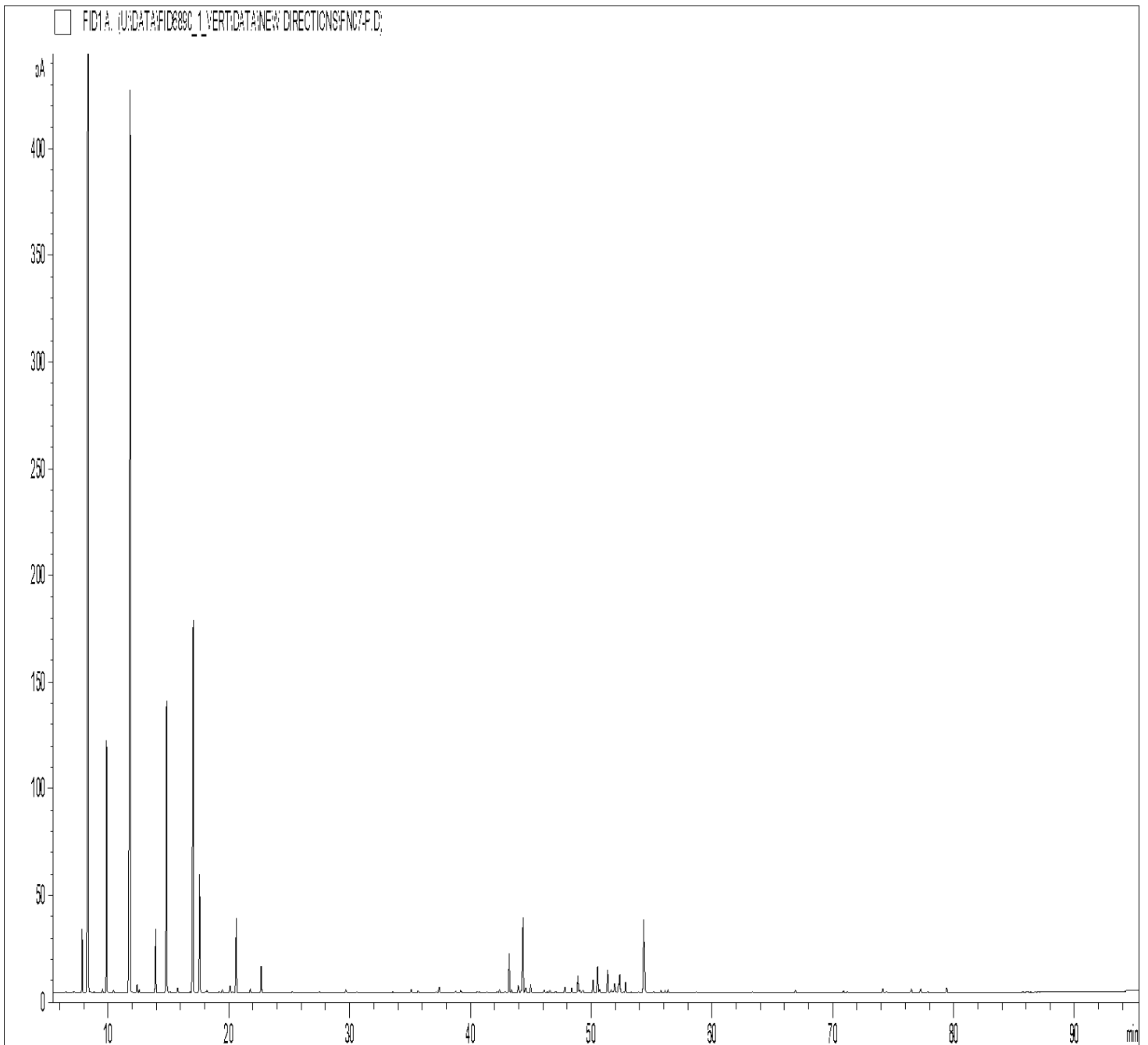


GCMS ANALYSIS

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL – 50030

DATE: September 7, 2021



Due to the 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	4,73	ACETONE	0,01
2	7,21	SANTENE	0,01
3	7,86	TRICYCLENE	0,83
4	8,37	alpha-PINENE	41,58
5	8,41	alpha-THUYENE	0,11
6	9,52	alpha-FENCHENE	0,04
7	9,87	CAMPHENE	3,76
8	10,45	HEXANAL	0,03
9	11,82	beta-PINENE	22,74
10	12,38	SABINENE	0,11
11	12,58	PINADIENE	0,04
12	13,92	delta3-CARENE	1,07
13	14,84	beta-MYRCENE	5,55
14	14,88	alpha-PHELLANDRENE	0,07
15	15,12	psi-LIMONENE	0,02
16	15,52	o-CYMENE	0,01
17	15,76	alpha-TERPINENE	0,08
18	16,77	MENTHATRIENE ISOMER	0,01
19	17,04	LIMONENE	8,63
20	17,58	beta-PHELLANDRENE	2,18
21	18,06	MENTHATRIENE ISOMER	0,01
22	18,18	2-HEXANAL	0,02
23	19,17	FURAN, 2-PENTYL-	0,02
24	19,45	cis-beta-OCIMENE	0,05
25	20,11	gamma-TERPINENE	0,12
26	20,62	trans-beta-OCIMENE	1,38
27	21,79	p-CYMENE	0,07
28	22,69	TERPINOLENE	0,51
29	25,27	PINOL	0,02
30	27,51	1-HEXANOL	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL – 50030

Peak	RT (min)	Compound name	%
31	29,71	3-HEXEN-1-OL	0,05
32	30,60	NONANAL	0,02
33	33,58	alpha,p-DIMETHYLSTYRENE	0,03
34	35,11	alpha-CUBEBENE	0,06
35	35,68	alpha-LONGIPINENE	0,04
36	36,67	CYCLOSATIVENE	0,01
37	36,79	YLANGENE	0,01
38	37,14	alpha-CAMPHOLENAL	0,02
39	37,42	alpha-COPAENE	0,12
40	38,66	CAMPBRE	0,01
41	38,76	alpha-PINOCAMPHONE	0,04
42	39,17	beta-BOURBONENE	0,06
43	40,55	beta1-CUBEBENE	0,03
44	40,69	beta-PINOCAMPHONE	0,03
45	41,11	LINALOL	0,01
46	41,35	2-DECANONE	0,02
47	42,19	PINOCARVONE	0,03
48	42,40	LONGIFOLENE	0,07
49	42,84	epsilon-CADINENE	0,03
50	43,19	BORNYL ACETATE	0,85
51	43,38	FENCHOL	0,06
52	43,90	beta-ELEMENE	0,15
53	43,95	beta-CUBEBENE	0,05
54	44,18	2-UNDECANONE	0,05
55	44,30	beta-CARYOPHYLLENE	1,61
56	44,34	TERPINENE-4-OL	0,10
57	44,57	6,9-GUAIADIENE	0,14
58	44,97	AROMADENDRENE	0,18
59	46,09	MYRTENAL	0,06
60	46,34	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	46,57	CADINA-3,5-DIENE	0,05
62	47,04	GERMACRENE A	0,04
63	47,31	ALLO-AROMADENDRENE	0,02
64	47,81	trans-PINOCARVEOL	0,11
65	48,37	ZONARENE	0,09
66	48,66	ESTRAGOL	0,01
67	48,80	E-beta-FARNESENE	0,05
68	48,88	alpha-HUMULENE	0,32
69	49,04	cis-4,5-MUROLADIENE	0,05
70	49,32	gamma-SELINENE	0,09
71	50,14	gamma-MUROLENE	0,29
72	50,50	alpha-TERPINEOL	0,55
73	50,55	TERPENYL ACETATE	0,10
74	50,68	BORNEOL	0,06
75	50,86	VERBENONE	0,02
76	51,35	GERMACRENE D	0,52
77	51,65	CADINADIENE ISOMER	0,09
78	51,85	MUROLADIENE ISOMER	0,04
79	51,94	beta-SELINENE	0,24
80	52,01	VALENCENE	0,03
81	52,26	alpha-SELINENE	0,20
82	52,36	alpha-MUROLENE	0,40
83	52,67	CARVONE	0,02
84	52,84	BICYCLOGERMACRENE	0,22
85	53,30	AROMATIC COMPOUND	0,02
86	53,89	E,E-alpha-FARNESENE	0,02
87	54,35	delta-CADINENE	1,73
88	54,39	gamma-CADINENE	0,56
89	55,13	METHYL SALICYLATE	0,02
90	55,76	CADINA-1,4-DIENE	0,06

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: PINE ORGANIC ESSENTIAL OIL – 50030

Peak	RT (min)	Compound name	%
91	56,11	MYRTENOL	0,06
92	56,35	alpha-AMORPHENE	0,07
93	57,38	2-TRIDECANONE	0,02
94	58,31	trans-ANETHOL	0,02
95	58,59	cis-CALAMENENE	0,02
96	58,67	trans-CALAMENENE	0,02
97	59,39	p-CYMENE-8-OL	0,01
98	61,69	epi-CUBEBOL	0,01
99	63,32	alpha-CALACORENE	0,02
100	64,55	CUBEBOL	0,01
101	66,88	CARYOPHYLLENE EPOXIDE	0,06
102	68,42	E-METHYLEUGENOL	0,01
103	69,89	epoxy-6,7-HUMULENE	0,01
104	70,42	GERMACRA-1,5-DIEN-4-OL	0,01
105	70,86	epi-CUBENOL	0,03
106	71,19	CUBENOL	0,03
107	71,67	VIRIDIFLOROL	0,01
108	74,12	SPATHULENOL	0,09
109	74,44	ETHYL CINNAMATE	0,03
110	76,49	T-CADINOL	0,08
111	77,26	alpha-MUUROLOL	0,08
112	77,83	delta-CADINOL	0,02
113	79,05	ISOSPATHULENOL	0,02
114	79,42	alpha-CADINOL	0,11
		TOTAL	99,94

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