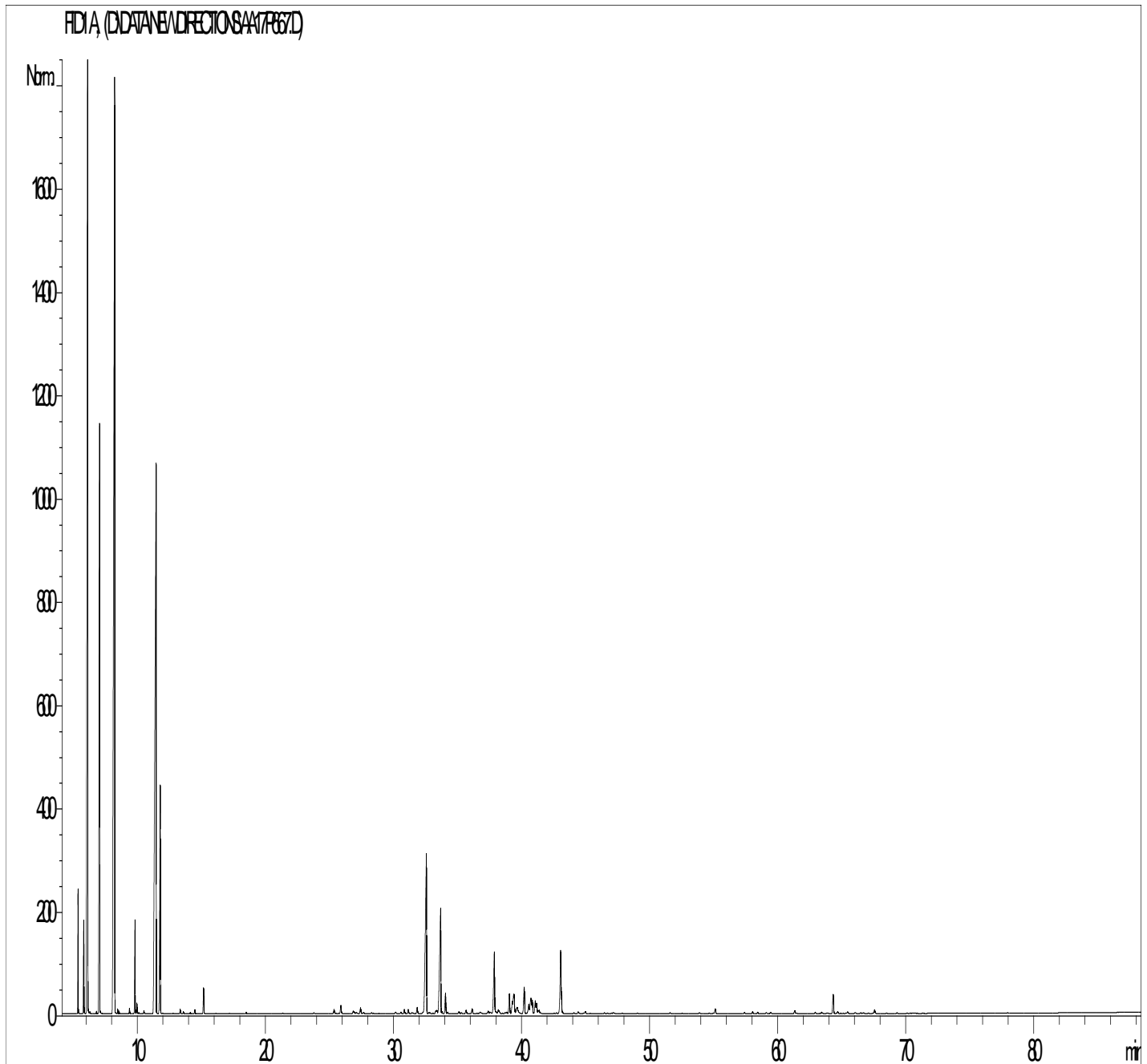




GCMS ANALYSIS

PRODUCT NAME: SILVER FIR ORGANIC ESSENTIAL OIL - 50065

DATE: February 9, 2018



*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: SILVER FIR ORGANIC ESSENTIAL OIL - 50065**

Peak	RT (min)	Compound name	%
1	5,3	SANTENE	1,19
2	5,8	TRICYCLENENE	1,19
3	6,1	<b>alpha-PINENE</b>	<b>22,61</b>
4	6,2	alpha-THUYENE	0,02
5	6,3	TOLUENE	0,01
6	6,8	alpha-FENCHENE	0,03
7	7,0	<b>CAMPHENE</b>	<b>8,61</b>
8	8,2	<b>beta-PINENE</b>	<b>24,20</b>
9	8,4	SABINENE	0,05
10	8,5	PINADIENE	0,03
11	9,4	delta3-CARENE	0,07
12	9,8	beta-MYRCENE	1,18
13	9,9	alpha-PHELLANDRENE	0,13
14	10,1	psi-LIMONENE	0,01
15	10,5	alpha-TERPINENE	0,04
16	11,4	<b>LIMONENE</b>	<b>17,39</b>
17	11,7	<b>beta-PHELLANDRENE + 1,8-CINEOLE</b>	<b>3,77</b>
18	12,7	Cis-beta-OCIMENE	0,01
19	13,3	gamma-TERPINENE	0,06
20	13,6	Trans-beta-OCIMENE	0,02
21	14,1	2-HEPTANOL, ACETATE	0,02
22	14,4	p-CYMENE	0,06
23	15,1	TERPINOLENE	0,39
24	16,1	HEXADIENE DIMETHYL ISOMER	0,01
25	16,8	2,4-HEXADIENE	0,01
26	17,1	PINOL	0,01
27	18,5	COMPOUND Mw=152	0,02
28	21,3	NONANAL	0,01
29	23,7	alpha,p-DIMETHYLSTYRENE	0,02
30	25,3	alpha-CUBEBENE	0,09

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: SILVER FIR ORGANIC ESSENTIAL OIL - 50065**

Peak	RT (min)	Compound name	%
31	25,5	EPOXY-4,8-TERPINOLENE	0,01
32	25,7	FENCHYL ACETATE	0,01
33	25,8	alpha-LONGIPINENE	0,18
34	26,8	alpha-CAMPHOLENAL	0,05
35	26,9	YLANGENE	0,03
36	27,0	SESQUITERPENE	0,04
37	27,4	alpha-COPAENE	0,12
38	27,6	ALIPHATIC ESTER	0,03
39	28,3	COPACAMPHENE	0,02
40	30,1	beta1-CUBEBENE	0,04
41	30,6	LINALOOL	0,03
42	30,8	SESQUITERPENE	0,08
43	31,1	LINALYL ACETATE	0,10
44	31,4	Trans-p-MENTH-2-EN-1-OL	0,03
45	31,8	LONGIFOLENE	0,13
46	32,3	SESQUITERPENE	0,03
47	32,6	<b>BORNYL ACETATE</b>	<b>4,77</b>
48	32,7	SESQUITERPENE	0,02
49	32,8	ALIPHATIC ESTER	0,02
50	33,3	SESQUITERPENE	0,06
51	33,4	CAMPHENE HYDRATE	0,07
52	33,6	<b>beta-CARYOPHYLENE</b>	<b>3,21</b>
53	33,8	TERPINENE-4-OL	0,04
54	34,0	alpha-CEDRENE	0,42
55	34,2	MYRTENAL	0,03
56	35,1	SESQUITERPENE	0,05
57	35,3	AROMADENDRENE	0,02
58	35,6	GERMACRENE A	0,08
59	36,1	SESQUITERPENE	0,11
60	36,7	SESQUITERPENE	0,06

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: SILVER FIR ORGANIC ESSENTIAL OIL - 50065**

Peak	RT (min)	Compound name	%
61	37,4	ZONARENE	0,06
62	37,5	CRYPTONE	0,05
63	37,8	alpha-HUMULENE	1,56
64	38,0	SESQUITERPENE	0,04
65	38,1	Z-beta-FARNESENE	0,08
66	38,2	gamma-SELINENE	0,05
67	38,7	SESQUITEREPNE	0,02
68	38,8	TERPENIC ACETATE	0,04
69	39,0	gamma-MUUROLENE	0,42
70	39,3	TERPENYL ACETATE	0,26
71	39,4	SESQUITERPENE	0,28
72	39,5	alpha-TERPINEOL	0,33
73	39,6	BORNEOL	0,28
74	40,2	GERMACRENE D	0,62
75	40,5	CADINA-3,5-DIENE	0,25
76	40,7	SESQUITERPENE	0,44
77	40,8	SESQUITERPENE + beta-SELINENE	0,29
78	41,0	alpha-SELINENE	0,28
79	41,2	alpha-MUUROLENE	0,22
80	41,3	beta-BISABOLENE	0,04
81	41,4	SESQUITERPENE	0,09
82	42,5	SESQUITERPENE	0,02
83	42,7	alpha-FARNESENE	0,02
84	43,0	delta-CADINENE	1,40
85	43,1	gamma-CADINENE	0,29
86	44,0	CURCUMENE ISOMER	0,02
87	44,4	CADINA-1,4-DIENE	0,04
88	44,8	MYRTENOL	0,02
89	44,9	SESQUITERPENE	0,05
90	46,4	TERPENIC ACETATE	0,02

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: SILVER FIR ORGANIC ESSENTIAL OIL - 50065**

Peak	RT (min)	Compound name	%
91	46,7	SESQUITERPENE	0,01
92	47,1	CALAMENENE	0,03
93	47,8	p-CYMENE-8-OL	0,01
94	49,0	SESQUITERPENIC OXIDE	0,01
95	51,6	alpha-CALACORENE	0,02
96	53,8	ALIPHATIC ESTER	0,02
97	54,6	ISOCARYOPHYLLENE EPOXID	0,01
98	55,1	CARYOPHYLLENE EPOXID	0,11
99	57,4	SESQUITERPENOL	0,02
100	58,0	Époxy-6,7-HUMULENE	0,04
101	58,4	NEROLIDOL	0,03
102	59,1	Épi-CEBENOL	0,02
103	59,5	CEBENOL	0,02
104	61,3	10-épi-gamma-EUDESOL	0,06
105	62,9	AROMATIC COMPOUND	0,03
106	63,4	SESQUITERPENOL	0,03
107	64,3	gamma-EUDESOL	0,40
108	64,7	T-CADINOL	0,04
109	65,4	alpha-MUUROLOL	0,05
110	66,0	delta-CADINOL	0,02
111	66,5	SESQUITERPENOL	0,02
112	66,7	SESQUITERPENOL	0,01
113	67,6	SESQUITERPENOL + alpha-CADINOL	0,09
114	69,3	FARNESYL ACETATE	0,01
		<b>TOTAL</b>	<b>99,84</b>

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