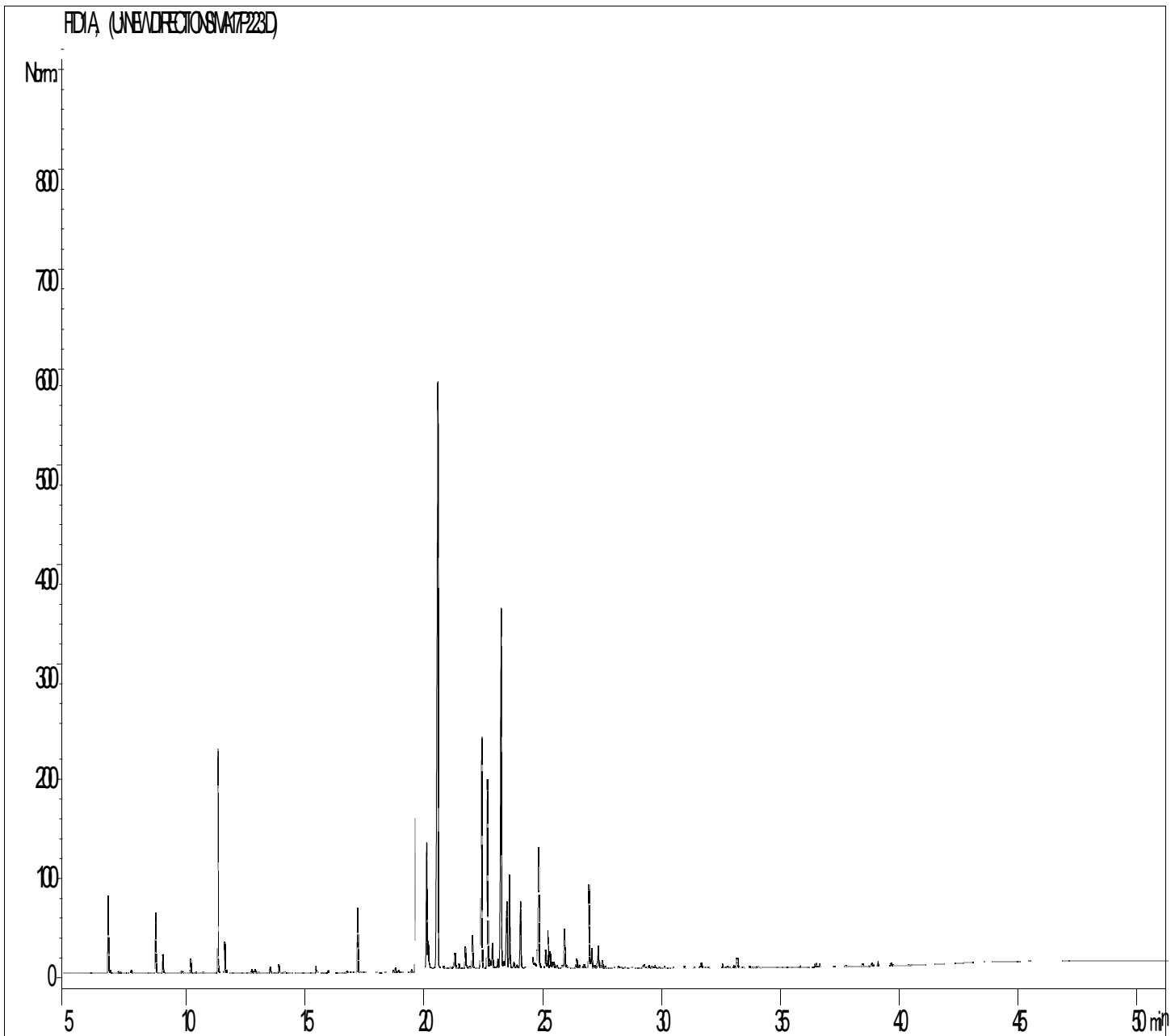


## GCMS ANALYSIS

Product Name: Peppermint Japanese Essential Oil  
Date: March 21, 2018



Product Name: Peppermint Japanese Essential Oil Cont'd  
Date: March 21, 2018

Peak	RT (min)	Compound name	%
1	4,3	ACETONE	0,04
2	6,7	alpha-PINENE	0,67
3	6,8	alpha-THUYENE	0,02
4	7,1	TETRAHYDROFURAN, 2,5-DIETHYL	0,01
5	7,2	CYCLOPENTENE, DIMETHYL METHYLETHYL	0,01
6	7,5	alpha-FENCHENE	0,01
7	7,6	CAMPHENE	0,02
8	8,6	beta-PINENE	0,58
9	9,0	SABINENE	0,18
10	9,1	PINADIENE	0,01
11	9,7	delta3-CARENE	0,02
12	9,8	OCTANE-1-METHOXY	0,01
13	10,1	beta-MYRCENE	0,14
14	10,2	alpha-PHELLANDRENE	0,01
15	10,3	psi-LIMONENE	0,01
16	10,7	alpha-TERPINENE	0,01
17	11,3	<b>LIMONENE</b>	<b>2,26</b>
18	11,6	<b>1,8-CINEOLE</b>	<b>0,30</b>
19	12,7	gamma-TERPINENE	0,03
20	12,8	Trans- $\beta$ -OCIMENE	0,03
21	13,1	3-OCTANONE	0,01
22	13,3	m-CYMENE	0,01
23	13,5	p-CYMENE	0,06
24	13,8	ISOAMYL, 2-METHYLBUTYRATE	0,01
25	13,9	TERPINOLENE	0,08
26	14,1	TERPENE ISOMER	0,01
27	15,4	3-METHYLCYCLOHEXANONE	0,08
28	15,5	6-METHYL-5-HEPTEN-2-ONE	0,02
29	15,9	1-HEXANOL	0,02
30	16,7	ALLO OCIMENE	0,02

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Product Name: Peppermint Japanese Essential Oil Cont'd  
Date: March 21, 2018

Peak	RT (min)	Compound name	%
31	16,8	3-HEXEN-1-OL	0,01
32	17,0	COMPOUND Mw=152	0,02
33	17,2	<b>3-OCTANOL</b>	<b>0,62</b>
34	17,3	NONANAL	0,02
35	17,5	TERPENIC ACETATE	0,02
36	18,0	PERILLENE	0,01
37	18,7	alpha,p-DIMETHYLSTYRENE	0,02
38	18,8	LINALOOL Cis-OXIDE	0,05
39	18,9	alpha-THUYONE	0,01
40	19,0	LIMONENE cis-EPOXIDE	0,02
41	19,1	1-OCTEN-3-OL	0,01
42	19,2	Trans-3-METHYLCYCLOHEXANOL	0,01
43	19,4	Trans-THUYANOL	0,07
44	19,8	<b>MENTHONE</b>	<b>22,71</b>
45	19,9	OCTYL ACETATE	0,02
46	20,0	1-HEXANOL, 2-ETHYL-	1,26
47	20,1	cis-3-HEXENYL-n-VALERATE	0,34
48	20,5	<b>ISOMENTHONE</b>	<b>9,07</b>
49	20,6	alpha-COPAENE	0,05
50	20,7	LONGICYCLENE	0,03
51	21,0	alpha-PINOCAMPHONE	0,02
52	21,2	beta-BOURBONENE	0,24
53	21,3	NEOMENTHYL ACETATE	0,05
54	21,6	LINALOOL	0,21
55	21,7	Cis-THUYANOL	0,05
56	21,8	p-MENTHAN-4-OL	0,02
57	21,9	1-OCTANOL	0,34
58	22,3	<b>MENTHYL ACETATE</b>	<b>2,99</b>
59	22,5	ISOPULEGOL	2,05
60	22,6	Cis-ISOPULEGONE	0,12

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Product Name: Peppermint Japanese Essential Oil Cont'd  
Date: March 21, 2018

Peak	RT (min)	Compound name	%
61	22,8	epsilon-CADINENE + COMPOUND MENTHATRIENIC	0,31
62	22,8	ALIPHATIC ESTER	0,02
63	22,9	SESQUITERPENE	0,02
64	23,0	Trans-ISOPULEGONE	0,10
65	23,1	<b>NEOMENTHOL</b>	<b>4,38</b>
66	23,2	beta-CUBEENE	0,05
67	23,3	TERPINENE-4-OL	0,10
68	23,4	<b>beta-CARYOPHYLLENE</b>	<b>0,90</b>
69	23,5	ISOISOPULEGONE	1,01
70	23,7	Cis-DIHYDROCARVONE	0,08
71	23,8	SESQUITERPENE	0,05
72	24,0	NEOISOMENTHOL	0,80
73	24,4	<b>MENTHOL</b>	<b>41,12</b>
74	24,5	SESQUITERPENE	0,08
75	24,6	SESQUITERPENE	0,19
76	24,7	<b>PULEGONE</b>	<b>1,39</b>
77	24,8	SESQUITERPENE	0,03
78	24,9	ISOMENTHOL	0,20
79	25,0	MENTHADIENOL ISOMER	0,10
80	25,1	LAVANDULOL	0,33
81	25,2	Cis-4,5-MUROLADIENE	0,17
82	25,3	alpha-HUMULENE	0,07
83	25,4	gamma-MUROLENE	0,06
84	25,5	SESQUITERPENE	0,03
85	25,7	Trans-SABINOL	0,03
86	25,8	alpha-TERPINEOL	0,44
87	25,9	BORNEOL	0,03
88	26,0	SESQUITERPENE	0,02
89	26,3	GERMACRENE D	0,12
90	26,4	SESQUITERPENE	0,04

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Product Name: Peppermint Japanese Essential Oil Cont'd  
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Peak	RT (min)	Compound name	%
91	26,6	alpha-MUUROLENE	0,07
92	26,8	PIPERITONE	0,78
93	26,9	CARVONE	0,10
94	27,0	BICYCLOGERMACRENE	0,28
95	27,1	Trans-ISOPIPERITENOL	0,03
96	27,2	1-DECANOL	0,25
97	27,3	CITRONELLOL	0,04
98	27,4	delta-CADINENE	0,08
99	27,5	gammaCADINENE	0,03
100	27,9	p-METHYLACETOPHENONE	0,02
101	28,0	MYRTENOL	0,02
102	28,2	alpha-MUUROLENE	0,01
103	29,1	Trans-CARVEOL	0,06
104	29,3	CALAMENE	0,03
105	29,5	p-CYMENE-8-OL	0,02
106	29,6	TERPEPENIC ESTER	0,02
107	29,8	E-GERANYL ACETONE	0,01
108	30,0	BENZYL ALCOHOL	0,03
109	30,8	PHENYLETHYL ALCOHOL	0,02
110	31,4	PIPERITENONE	0,04
111	31,5	HEXANOIC ACID, 2-ETHYL-	0,06
112	31,8	Trans-JASMONE	0,02
113	32,4	SESQUITERPENOL	0,04
114	32,6	AROMATIC COMPONENT	0,02
115	32,8	ISOCARYOPHYLLENE EPOXIDE	0,01
116	33,0	CARYOPHYLLENE OXIDE	0,02
117	33,1	METHYL DIISOPROPYLPHENOL ISOMER Mw=192	0,10
118	33,6	NEROLIDOL	0,02
119	33,9	METHYL DIISOPROPYLPHENOL ISOMER Mw=192	0,01
120	35,7	SPATHULENOL	0,02

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Peak	RT (min)	Compound name	%
121	36,4	EUGENOL	0,04
122	36,5	THYMOL	0,03
123	37,6	Cis-3-HEXENYL PHENYL ACETATE	0,02
124	38,3	Trans-LIMONENE-1,2-DIOL	0,03
125	38,8	ISOCARVACROL	0,03
126	39,0	METHYL DIISOPROPYLPHENOL ISOMER Mw=192	0,05
127	39,6	CARVACROL	0,03
		<b>TOTAL</b>	<b>99,91</b>

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