

Date : 2024-08-15

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

**Internal code** : 24H05-NSO01

**Customer Identification** : Blue Chamomile - Egypt - Lot: 029242246

**Type** : Essential Oil

**Source** : *Matricaria chamomilla*

**Customer** : Natural Sourcing LLC

Checked and approved by:

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Alexis St-Gelais, Ph. D., Chimiste 2013-174

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## GAS CHROMATOGRAPHIC ANALYSIS

**Method :** PC-MAT-014 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID

**✖ISO**

**Results :** See analysis summary (next page)

**Analyst :** Alexis St-Gelais, Ph. D., Chimiste 2013-174

**Date :** 2024-08-15

## PHYSICOCHEMICAL DATA

**Refractive index :**  $1.5054 \pm 0.0003$  (20 °C)

**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.

**Analyst :** Cindy Caron B. Sc.

**Date :** 2024-08-07

## CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

## ANALYSIS SUMMARY - CONSOLIDATED CONTENTS

New readers of similar reports are encouraged to read table footnotes at least once.

Identification	%	Class
Isobutyral	tr	Aliphatic aldehyde
3-Buten-2-one	tr	Aliphatic ketone
Isovaleral	0.02	Aliphatic aldehyde
2-Methylbutyral	0.03	Aliphatic aldehyde
2-Ethylfuran	tr	Furan
2-Vinylfuran	0.01	Furan
Methyl 2-methylbutyrate	tr	Aliphatic ester
Octene	tr	Alkene
Hexanal	0.02	Aliphatic aldehyde
Octane	0.01	Alkane
Ethyl 2-methylbutyrate	0.26	Aliphatic ester
Ethyl isovalerate	0.03	Aliphatic ester
(3Z)-Hexenol	tr	Aliphatic alcohol
Hexanol	tr	Aliphatic alcohol
Nonene	tr	Alkene
Heptanal	0.01	Aliphatic aldehyde
Santolinatriene	0.01	Monoterpene
$\alpha$ -Thujene	0.01	Monoterpene
$\alpha$ -Pinene	0.03	Monoterpene
Unknown	0.01	Monoterpene
Camphene	0.03	Monoterpene
Propyl 2-methylbutyrate	0.09	Aliphatic ester
Benzaldehyde	0.01	Simple phenolic
$\beta$ -Pinene	0.01	Monoterpene
Sabinene	0.03	Monoterpene
6-Methyl-5-hepten-2-one	0.06	Aliphatic ketone
Myrcene	0.02	Monoterpene
2-Pentylfuran	0.06	Furan
Unknown	0.01	Monoterpene
$\alpha$ -Phellandrene	0.01	Monoterpene
Octanal	0.08	Aliphatic aldehyde
Yomogi alcohol	0.05	Monoterpenic alcohol
$\alpha$ -Terpinene	0.01	Monoterpene
<i>para</i> -Cymene	0.12	Monoterpene
Limonene	0.06	Monoterpene
1,8-Cineole	0.03	Monoterpenic ether
(Z)- $\beta$ -Ocimene	0.09	Monoterpene
Seudenone?	0.03	Aliphatic ketone
(E)- $\beta$ -Ocimene	0.45	Monoterpene
$\gamma$ -Terpinene	0.16	Monoterpene

Artemisia ketone	0.46	Monoterpenic ketone
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Octanol	0.02	Aliphatic alcohol
Artemisia alcohol	0.12	Monoterpenic alcohol
trans-Sabinene hydrate	tr	Monoterpenic alcohol
Linalool	0.03	Monoterpenic alcohol
Nonanal	0.08	Aliphatic aldehyde
Unknown	0.01	Oxygenated monoterpene
Camphor	0.01	Monoterpenic ketone
trans-Chrysanthemol	0.01	Monoterpenic alcohol
Borneol	0.09	Monoterpenic alcohol
Artemisyl acetate	0.02	Monoterpenic ester
Nonanol	0.02	Aliphatic alcohol
Terpinen-4-ol	0.04	Monoterpenic alcohol
$\alpha$ -Terpineol	0.02	Monoterpenic alcohol
Methyl salicylate	0.01	Phenolic ester
Safranal	0.06	Monoterpenic aldehyde
Decanal	0.01	Aliphatic aldehyde
Citronellol	0.01	Monoterpenic alcohol
4,8-Dimethylnona-3,7-dien-2-one	0.02	Terpenic ketone
(3Z)-Hexenyl isovalerate	0.05	Aliphatic ester
Carvone	0.02	Monoterpenic ketone
Hexyl isovalerate	0.04	Aliphatic ester
Geraniol	0.01	Monoterpenic alcohol
$\alpha$ -Ionene	0.01	Terpene derivative
4,8-Dimethylnona-3,8-dien-2-one	0.04	Terpenic ketone
Pelargonic acid	0.06	Aliphatic acid
Thymol	0.03	Monoterpenic alcohol
Tridecane	0.01	Alkane
(2E,4E)-Decadienal	0.02	Aliphatic aldehyde
7 $\alpha$ H-Silphiperfol-5-ene	0.01	Sesquiterpene
Methyl decanoate	0.01	Aliphatic ester
Bicycloelemene	0.03	Sesquiterpene
7 $\beta$ H-Silphiperfol-5-ene	0.01	Sesquiterpene
$\alpha$ -Longipinene	0.02	Sesquiterpene
Dehydro-ar-ionene	0.04	Miscellaneous
$\alpha$ -Ylangene	0.01	Sesquiterpene
$\alpha$ -Copaene	0.06	Sesquiterpene
$\alpha$ -Isocomene	0.06	Sesquiterpene
$\beta$ -Elemene	0.07	Sesquiterpene
Capric acid	1.05	Aliphatic acid
$\beta$ -Isocomene	0.01	Sesquiterpene
Isocaryophyllene	0.03	Sesquiterpene
$\beta$ -Caryophyllene	0.08	Sesquiterpene
$\beta$ -Copaene	0.03	Sesquiterpene

Aromadendrene	0.07	Sesquiterpene
Striatene?	0.01	Sesquiterpene
$\alpha$ -Humulene	0.05	Sesquiterpene
allo-Aromadendrene	0.13	Sesquiterpene
(E)- $\beta$ -Farnesene	16.80	Sesquiterpene
Precocene I	0.07	Chromane
Dehydrosesquicineole	0.14	Sesquiterpenic ether
Germacrene D	1.48	Sesquiterpene
$\beta$ -Selinene	0.14	Sesquiterpene
$\alpha$ -Curcumene	0.06	Sesquiterpene
Bicyclogermacrene	1.03	Sesquiterpene
Viridiflorene	0.05	Sesquiterpene
$\alpha$ -Zingiberene	0.10	Sesquiterpene
$\alpha$ -Muurolene	0.04	Sesquiterpene
(3Z,6E)- $\alpha$ -Farnesene	0.05	Sesquiterpene
3,6-Dihydrochamazulene	0.68	Azulene
$\gamma$ -Cadinene	0.18	Sesquiterpene
(3E,6E)- $\alpha$ -Farnesene	0.78	Sesquiterpene
Cubebol	0.05	Sesquiterpenic alcohol
Dihydrochamazulene isomer I	0.11	Azulene
<i>trans</i> -Calamenene	0.02	Sesquiterpene
$\delta$ -Cadinene	0.24	Sesquiterpene
$\beta$ -Sesquiphellandrene	0.04	Sesquiterpene
(2Z?,8Z?)-Matricaria ester	0.02	Polyene ester
$\alpha$ -Cadinene	0.02	Sesquiterpene
(E)- $\alpha$ -Bisabolene	0.02	Sesquiterpene
Salviadienol?	0.02	Sesquiterpenic alcohol
Sesquirosefuran?	0.06	Sesquiterpenic ether
(E)-Nerolidol	0.08	Sesquiterpenic alcohol
Unknown MARE XVI [m/z 43, 93 (84), 120 (51), 81 (41), 79 (34)...]	0.12	Oxygenated sesquiterpene
Spathulenol	0.82	Sesquiterpenic alcohol
(2Z?,8E?)-Matricaria ester	0.02	Polyene ester
Dendrolasin	0.12	Sesquiterpenic ether
Viridiflorol	0.12	Sesquiterpenic alcohol
Ledol	0.14	Sesquiterpenic alcohol
Torilenol	0.05	Oxygenated sesquiterpene
5,6-Dihydrochamazulene	0.30	Azulene
(2,7Z)-Bisaboladien-4-ol	0.20	Sesquiterpenic alcohol
<i>cis</i> -Cadin-4-en-7-ol	0.07	Sesquiterpenic alcohol
Alismol?	0.08	Oxygenated sesquiterpene
Unknown	0.10	Unknown
$\tau$ -Cadinol	0.69	Sesquiterpenic alcohol
$\tau$ -Muurolol	0.05	Sesquiterpenic alcohol
Unknown	0.13	Unknown

$\alpha$ -Eudesmol	0.08	Sesquiterpenic alcohol
$\alpha$ -Bisabolol oxide B, epimer 1	[5.48]	Sesquiterpenic alcohol
$\alpha$ -Cadinol	0.15	Sesquiterpenic alcohol
$\alpha$ -Bisabolol oxide B, epimer 2	[5.48]	Sesquiterpenic alcohol
Ageratochromene	0.28	Chromane
$\beta$ -Bisabolol	0.05	Sesquiterpenic alcohol
( <i>E</i> )-Bisabol-11-ol	0.09	Sesquiterpenic alcohol
$\alpha$ -Bisabolol analog	0.02	Sesquiterpenic alcohol
Bisabolone oxide A	4.73	Sesquiterpenic ketone
Eudesma-4(15),7-dien-1 $\beta$ -ol	0.07	Sesquiterpenic alcohol
$\alpha$ -Bisabolol	1.34	Sesquiterpenic alcohol
(2 <i>E</i> ,6 <i>Z</i> )-Farnesol	0.08	Sesquiterpenic alcohol
Herniarin	0.08	Coumarin
Chamazulene	2.31	Azulene
$\alpha$ -Bisabolol oxide A	41.59	Sesquiterpenic alcohol
Benzyl benzoate	0.02	Phenolic ester
$\alpha$ -Costol?	0.20	Sesquiterpenic alcohol
Unknown	0.02	Unknown
Phytone	0.25	Terpenic ketone
( <i>Z</i> )-Spiroether	4.83	Polyyne
( <i>E</i> )-Spiroether	0.53	Polyyne
( <i>Z</i> )-Tibetin spiroether	0.04	Polyyne
Methyl palmitate	0.06	Aliphatic ester
( <i>E</i> )-Tibetin spiroether	0.17	Polyyne
Palmitic acid	1.42	Aliphatic acid
Ethyl palmitate	0.01	Aliphatic ester
Eicosane	0.04	Alkane
Methyl linoleate	0.03	Aliphatic ester
Heneicosane	0.03	Alkane
Phytol	0.13	Diterpenic alcohol
Linoleic acid	0.42	Aliphatic acid
Oleic acid	0.01	Aliphatic acid
Stearic acid	0.04	Aliphatic acid
Tricosane	0.43	Alkane
Tetracosane	0.11	Alkane
Pentacosane	0.94	Alkane
Hexacosane	0.04	Alkane
Heptacosane	0.21	Alkane
6,8-Pentacosanedione?	0.02	$\beta$ -Diketone
<b>Consolidated total</b>	<b>96.59</b>	

tr: The compound has been detected below 0.005% of the total signal

Note: no correction factor was applied

**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the

chromatograms in this report to access the full untreated data and perform their own calculations if needed.

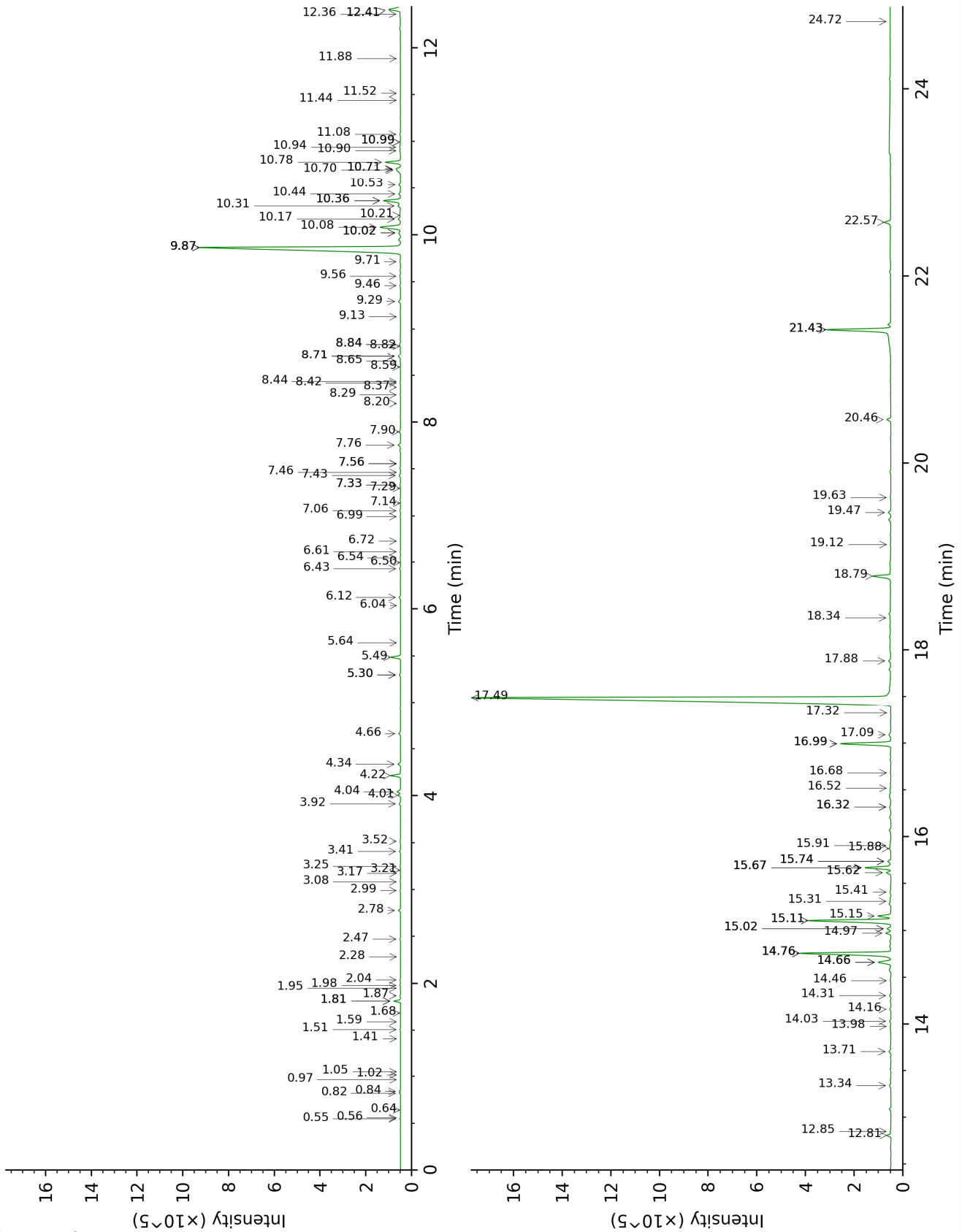
**Unknowns:** Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

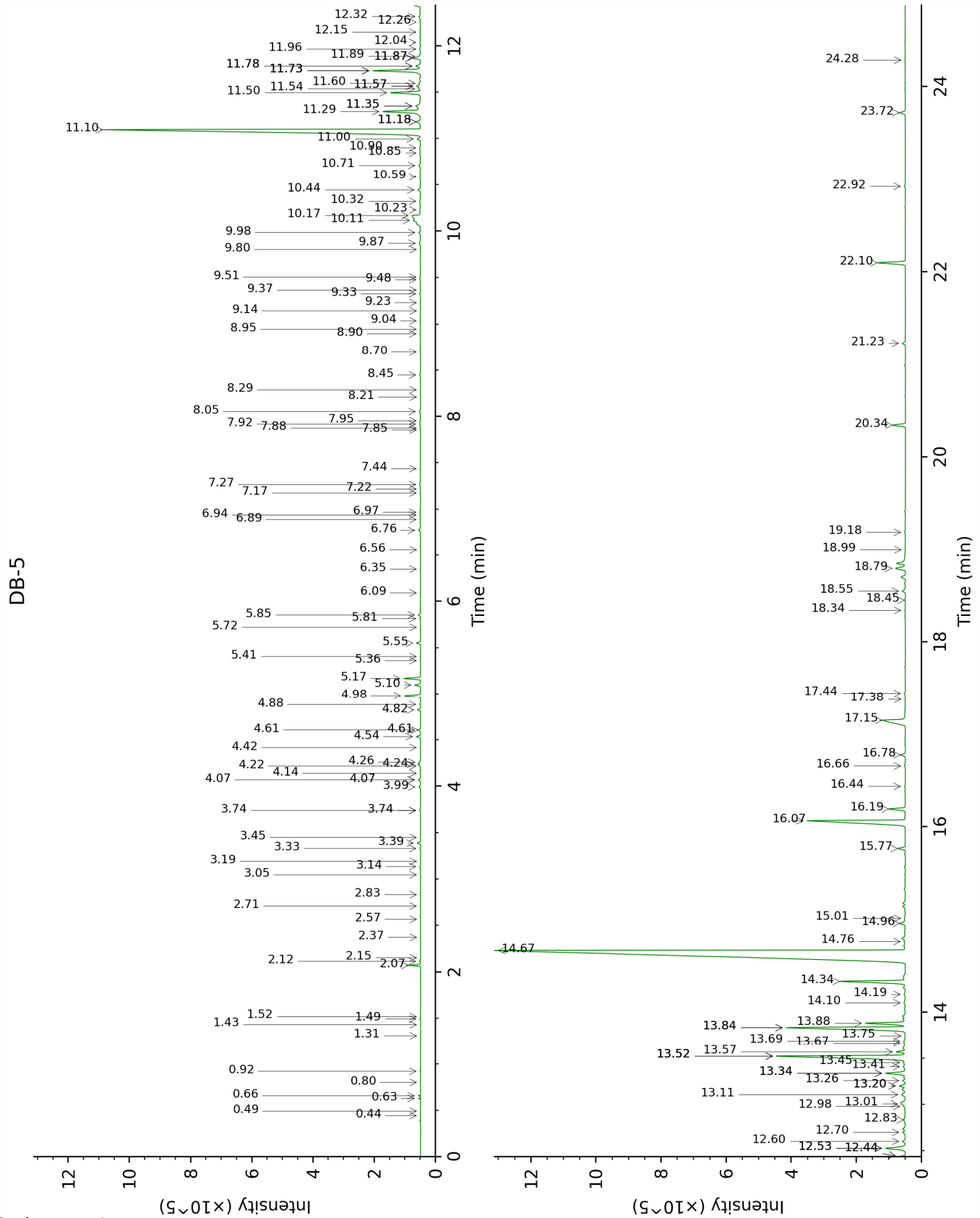
**Bracketed value (xx):** A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

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DB-WAX





FULL ANALYSIS DATA

Isobutyral	Column DB-WAX			Column DB-5		
	0.55	776.5	0.01	0.44	536.6	tr
3-Buten-2-one	0.97	910.0	0.01	0.49	577.6	tr
Isovaleral	0.84	886.2	0.03	0.63	640.8	0.02
2-Methylbutyral	0.82	879.2	0.03	0.66	650.8	0.03
2-Ethylfuran	1.02	917.8	tr	0.80	700.7	tr
2-Vinylfuran	1.95	1035.7	0.01	0.92	719.5	0.01
Methyl 2-methylbutyrate	1.41	977.9	tr	1.31	774.0	tr
Octene	0.64	818.5	tr	1.43	790.8	tr
Hexanal	2.04	1044.1	0.02	1.49	799.6	0.02
Octane	0.56	784.8	0.01	1.52	803.1	0.01
Ethyl 2-methylbutyrate	1.81*	1022.6	[0.27]	2.07	849.1	0.26
Ethyl isovalerate	1.98	1038.5	0.03	2.12	852.7	0.03
(3Z)-Hexenol	6.04	1348.9	0.01	2.15	855.9	tr
Hexanol	5.64	1320.6	0.01	2.37	874.1	tr
Nonene	1.05	922.9	tr	2.57	890.1	tr
Heptanal	3.21	1143.5	0.01	2.71	901.9	0.01
Santolinatriene	1.68	1010.4	0.01	2.83	910.4	0.01
$\alpha$ -Thujene	1.59	1001.5	0.01	3.05	924.5	0.01
$\alpha$ -Pinene	1.51	993.0	0.03	3.14	930.3	0.03
Unknown BODA VII [m/z 93, 91 (50), 92 (37), 79 (36), 77 (35), 121 (19)... 136 (t)]	1.81*	1022.6	[0.27]	3.19	934.1	0.01
Camphene	1.87	1028.0	0.03	3.33	943.2	0.03
Propyl 2-methylbutyrate	2.78	1110.7	0.10	3.39	947.0	0.09
Benzaldehyde	7.56*	1459.3	[0.02]	3.45	951.0	0.01
$\beta$ -Pinene	2.28	1067.5	0.01	3.74*	970.2	[0.04]
Sabinene	2.47	1085.5	0.03	3.74*	970.2	[0.04]
6-Methyl-5-hepten-2-one	5.30*	1296.2	[0.06]	3.99	986.9	0.06
Myrcene	3.08	1134.0	0.02	4.07*	992.0	[0.08]
2-Pentylfuran	3.92	1197.3	0.06	4.07*	992.0	[0.08]
Unknown ACMI II [m/z 93, 91 (46), 80 (44), 79 (42), 77 (33), 92 (20)... 136 (4)]	3.25	1146.6	0.02	4.14	996.6	0.01
$\alpha$ -Phellandrene	2.99	1126.9	0.02	4.22	1001.7	0.01
Octanal	4.66	1250.8	0.09	4.24	1003.0	0.08
Yomogi alcohol	6.43	1376.8	0.05	4.26	1004.5	0.05
$\alpha$ -Terpinene	3.17	1140.9	0.01	4.42	1014.3	0.01

<i>para</i> -Cymene	4.34	1227.5	0.12	4.54	1021.7	0.12
Limonene	3.41	1158.7	0.06	4.61*	1026.2	[0.07]
1,8-Cineole	3.52	1167.1	0.03	4.61*	1026.2	[0.07]
(Z)- $\beta$ -Ocimene	4.01	1203.9	0.11	4.82	1039.7	0.09
Seudenone?	8.59	1537.2	0.02	4.88	1043.5	0.03
(E)- $\beta$ -Ocimene	4.22	1218.9	0.48	4.98	1049.6	0.45
$\gamma$ -Terpinene	4.04	1206.5	0.18	5.10	1056.9	0.16
Artemisia ketone	5.49	1309.6	0.48	5.17	1061.4	0.46
<i>cis</i> -Linalool oxide (fur.)	6.72	1397.9	0.02	5.36	1073.4	0.01
Octanol	8.44	1525.3	0.02	5.41	1076.2	0.02
Artemisia alcohol	7.76	1474.0	0.14	5.55	1085.2	0.12
<i>trans</i> -Sabinene hydrate	8.20	1507.2	0.02	5.72	1095.8	tr
Linalool	8.29	1514.3	0.02	5.81	1101.7	0.03
Nonanal	6.12	1355.0	0.07	5.85	1104.1	0.08
Unknown ARAN IV [m/z 43, 81 (62), 59 (60), 85 (49), 82 (38)... 154 (2)]				6.09	1119.4	0.01
Camphor	7.46	1452.5	0.01	6.35	1135.7	0.01
<i>trans</i> -Chrysanthemol	9.87*	1637.4	[17.51]	6.56	1148.9	0.01
Borneol	10.02*	1649.9	[0.13]	6.76	1162.3	0.09
Artemisyl acetate	6.61	1389.7	0.03	6.89	1170.2	0.02
Nonanol	9.72	1625.2	0.05	6.94	1173.4	0.02
Terpinen-4-ol	8.84*	1556.1	[0.06]	6.97	1175.2	0.04
$\alpha$ -Terpineol	10.02*	1649.9	[0.13]	7.18	1188.4	0.02
Methyl salicylate	10.71*	1705.7	[0.24]	7.22	1191.2	0.01
Safranal	9.13	1578.8	0.02	7.27	1194.2	0.06
Decanal	7.56*	1459.3	[0.02]	7.44	1205.3	0.01
Citronellol	11.00*	1729.9	[0.02]	7.85	1233.1	0.01
4,8-Dimethylnona- 3,7-dien-2-one				7.88	1234.5	0.02
(3Z)-Hexenyl isovalerate	7.33*	1442.5	[0.03]	7.92	1237.3	0.05
Carvone	10.21	1664.8	0.02	7.95	1239.8	0.02
Hexyl isovalerate	6.99	1417.7	0.02	8.05	1246.3	0.04
Geraniol	11.88	1805.5	0.01	8.21	1256.8	0.01
$\alpha$ -Ionene	7.14	1428.3	0.01	8.29	1262.0	0.01
4,8-Dimethylnona- 3,8-dien-2-one	9.46	1604.8	0.04	8.45	1272.7	0.04
Pelargonic acid				8.70	1289.3	0.06
Thymol	15.41	2133.1	0.06	8.90	1302.8	0.03
Tridecane	5.30*	1296.2	[0.06]	8.95	1306.2	0.01
(2E,4E)-Decadienal	11.44	1767.5	0.02	9.04	1312.6	0.02

7αH-Silphiperfol-5-ene	6.50	1381.5	0.01	9.14	1320.2	0.01
Methyl decanoate	8.82	1554.8	0.02	9.23	1326.3	0.01
Bicycloelemene	7.33*	1442.5	[0.03]	9.33	1333.1	0.03
7βH-Silphiperfol-5-ene	6.54	1385.0	0.03	9.37	1335.9	0.01
α-Longipinene	7.06	1422.4	0.04	9.48	1343.7	0.02
Dehydro-ar-ionene				9.51	1345.7	0.04
α-Ylangene	7.30	1440.0	0.01	9.80	1366.5	0.01
α-Copaene	7.43	1450.0	0.08	9.87	1371.2	0.06
α-Isocomene	7.90	1484.3	0.07	9.98	1379.3	0.06
β-Elemene	8.70*	1546.1	[0.15]	10.11*†	1388.4	[0.34]
Capric acid				10.17*†	1392.1	[0.59]
β-Isocomene	8.37	1520.5	0.03	10.23	1396.4	0.01
Isocaryophyllene	8.42	1524.0	0.02	10.32	1403.0	0.03
β-Caryophyllene	8.70*	1546.1	[0.15]	10.44	1412.0	0.08
β-Copaene	8.65	1541.9	0.03	10.58	1422.7	0.03
Aromadendrene	8.84*	1556.1	[0.06]	10.71	1432.0	0.07
Striatene?				10.84	1442.0	0.01
α-Humulene	9.56	1612.9	0.05	10.90	1446.2	0.05
allo-Aromadendrene	9.29	1591.3	0.12	11.00	1453.3	0.13
(E)-β-Farnesene	9.87*	1637.4	[17.51]	11.10	1460.7	16.80
Precocene I	14.16	2011.7	0.07	11.18*	1467.1	[0.18]
Dehydrosesquicineole	10.31	1672.9	0.14	11.18*	1467.1	[0.18]
Germacrene D	10.08	1654.7	1.41	11.29	1475.3	1.48
β-Selinene	10.17	1661.7	0.14	11.35*	1479.6	[0.22]
ar-Curcumene	10.94	1725.3	0.06	11.35*	1479.6	[0.22]
Bicyclogermacrene	10.36*	1677.4	[1.03]	11.50	1490.4	1.03
Viridiflorene	9.87*	1637.4	[17.51]	11.54	1493.4	0.05
α-Zingiberene	10.44	1683.1	0.10	11.57*	1495.5	[0.14]
α-Muurolene	10.36*	1677.4	[1.03]	11.57*	1495.5	[0.14]
(3Z,6E)-α-Farnesene	10.53	1691.1	0.08	11.60	1497.9	0.05
3,6-Dihydrochamazulene	12.41*	1851.7	[0.81]	11.73*	1508.3	[1.64]
γ-Cadinene	10.70	1704.7	0.18	11.73*	1508.3	[1.64]
(3E,6E)-α-Farnesene	10.78	1711.8	0.78	11.73*	1508.3	[1.64]
Cubebol	12.85	1890.4	0.05	11.78*	1512.2	[0.16]
Dihydrochamazulene isomer I	12.41*	1851.7	[0.81]	11.78*	1512.2	[0.16]
trans-Calamenene	11.52	1773.7	0.02	11.87*	1518.9	[0.26]
δ-Cadinene	10.71*	1705.7	[0.24]	11.87*	1518.9	[0.26]
β-Sesquiphellandrene	10.90	1722.2	0.04	11.89	1520.4	0.04
(2Z?,8Z?)-Matricaria ester	16.52	2245.7	0.03	11.96	1526.5	0.02
α-Cadinene	11.08	1736.9	0.04	12.04	1532.2	0.02

(E)- $\alpha$ -Bisabolene	11.00*	1729.9	[0.02]	12.15	1540.9	0.02
Salviadienol?	14.66*	2059.8	[0.81]	12.26	1549.3	0.02
Sesquirosefuran?	12.36	1847.3	0.04	12.32	1554.0	0.06
(E)-Nerolidol	14.03	1999.6	0.08	12.44*	1563.3	[0.20]
Unknown MARE XVI [m/z 43, 93 (84), 120 (51), 81 (41), 79 (34)...]				12.44*	1563.3	[0.20]
Spathulenol	14.66*	2059.8	[0.81]	12.53*	1570.5	[0.84]
(2Z?,8E?)-Matricaria ester	17.32	2330.5	0.02	12.53*	1570.5	[0.84]
Dendrolasin	12.81	1886.6	0.20	12.60	1576.3	0.12
Viridiflorol	14.31	2025.8	0.08	12.70	1584.0	0.12
Ledol	13.71	1969.4	0.12	12.83	1594.5	0.14
Torilenol	15.74*	2165.7	[0.20]	12.98	1606.2	0.05
5,6- Dihydrochamazulene	14.76*	2068.9	[5.54]	13.01†	1608.4	0.11
(2,7Z)-Bisaboladien-4- ol	15.11*	2103.0	[4.93]	13.11	1616.6	0.20
cis-Cadin-4-en-7-ol	14.46	2040.9	0.07	13.20*	1624.4	[0.21]
Alismol?	15.91	2182.4	0.08	13.20*	1624.4	[0.21]
Unknown UNKN CXCI [m/z 93, 41 (52), 79 (46), 91 (45), 43 (38), 67 (37)...]				13.26	1629.1	0.10
$\tau$ -Cadinol	15.16	2107.8	0.69	13.34*	1635.6	[0.73]
$\tau$ -Muurolol	15.31	2123.4	0.05	13.34*	1635.6	[0.73]
Unknown LYUN IV [m/z 123, 43 (86), 81 (75), 95 (73), 82 (68), 161 (64), 105 (63)... 220 (6)]	13.34	1935.3	0.12	13.41	1641.5	0.13
$\alpha$ -Eudesmol	15.62	2153.8	0.25	13.45	1645.1	0.08
$\alpha$ -Bisabolol oxide B, epimer 1	14.76*	2068.9	[5.54]	13.52*	1650.9	[5.63]
$\alpha$ -Cadinol	15.74*	2165.7	[0.20]	13.52*	1650.9	[5.63]
$\alpha$ -Bisabolol oxide B, epimer 2	14.76*	2068.9	[5.54]	13.52*	1650.9	[5.63]
Ageratochromene	17.09	2305.4	0.16	13.57	1654.7	0.28
$\beta$ -Bisabolol	15.02*	2094.3	[0.22]	13.67	1662.8	0.05
(E)-Bisabol-11-ol	15.67*	2159.0	[1.39]	13.69	1664.7	0.09
$\alpha$ -Bisabolol analog	15.67*	2159.0	[1.39]	13.75	1669.4	0.02
Bisabolone oxide A	15.11*	2103.0	[4.93]	13.84*	1676.8	[4.80]
Eudesma-4(15),7- dien-1 $\beta$ -ol	16.32*	2224.9	[0.11]	13.84*	1676.8	[4.80]
$\alpha$ -Bisabolol	15.67*	2159.0	[1.39]	13.88	1680.7	1.34

(2E,6Z)-Farnesol	16.68	2262.6	0.05	14.10	1698.9	0.08
Herniarin	21.43*	2809.0	[4.44]	14.19	1706.6	0.08
Chamazulene	16.99*	2295.1	[2.88]	14.34	1718.8	2.31
$\alpha$ -Bisabolol oxide A	17.49	2348.5	42.54	14.67	1747.5	41.59
Benzyl benzoate	19.12	2530.8	0.03	14.76	1755.9	0.02
$\alpha$ -Costol?				14.96	1772.8	0.20
Unknown MOPE II [m/z 82, 43 (99), 95 (50), 67 (38), 139 (41)...]				15.01	1777.5	0.02
Phytone	14.97	2089.6	0.26	15.77	1844.7	0.25
(Z)-Spiroether	21.43*	2809.0	[4.44]	16.07	1871.8	4.83
(E)-Spiroether	22.57	2956.2	0.35	16.19	1883.3	0.53
(Z)-Tibetin spiroether				16.44	1905.6	0.04
Methyl palmitate	15.88	2179.4	0.10	16.66	1926.4	0.06
(E)-Tibetin spiroether				16.78	1937.8	0.17
Palmitic acid				17.15	1973.1	1.42
Ethyl palmitate	16.32*	2224.9	[0.11]	17.38	1994.7	0.01
Eicosane	13.98	1994.3	0.05	17.44	2001.0	0.04
Methyl linoleate	18.34†	2442.1	0.08	18.34	2090.0	0.03
Heneicosane	15.02*	2094.3	[0.22]	18.45	2100.8	0.03
Phytol	19.47	2571.0	0.15	18.55	2111.1	0.13
Linoleic acid				18.79	2136.4	0.42
Oleic acid				18.99	2157.2	0.01
Stearic acid				19.18	2176.6	0.04
Tricosane	16.99*	2295.1	[2.88]	20.34	2300.7	0.43
Tetracosane	17.88	2391.0	0.10	21.23	2400.2	0.11
Pentacosane	18.79	2492.0	1.05	22.10	2500.8	0.94
Hexacosane	19.63	2589.8	0.05	22.92	2599.9	0.04
Heptacosane	20.46	2689.1	0.22	23.72	2699.8	0.21
6,8- Pentacosanedione?	24.72	3252.6	0.01	24.28	2772.9	0.02
Total reported		94.79%			96.60%	

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, only the first one is taken into account in the consolidated total

†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied  
R.T.: Retention time (minutes)  
R.I.: Retention index