



Angelica Root Angelica archangelica

Batch No. BE-58723

Organically Produced, Belgium

Monoterpenes

α pinene	20.17
tricyclene	0.02
α thujene	0.64
α fenchene	0.02
camphene	0.80
Thuja-2,4(10)-diene	0.27
β pinene	1.18
sabinene	5.82
meta-cymene	0.17
δ 3 carene	11.68
myrcene	4.92
2-carene	0.09
pseudolimonene + α phellandrene	14.59
menthatriene isomer I	0.05
α terpinene	0.80
ortho-cymene	0.04
para cymenene	1.80
limonene	7.10
β phellandrene	13.14
(Z)-β-Ocimene	1.49
(E)-β-Ocimene	4.35
γ terpinene	1.54
meta-cymenene	0.02
isoterpinolene	0.53
terpinolene	1.00
para cymenene	0.03
1,3,8-para-Menthatriene	0.03
allo-ocimene	0.05
menthatriene isomer III	0.03
cosmene isomer II	0.03

Monoterpenols

linalol	0.02
cis-para-menth-2-en-1-ol	0.1
trans-para-Menth-2-en-1-ol	0.08
cis-verbenol	0.05
meta-Mentha-4,6-dien-8-ol	0.05
trans-verbenol	0.05
borneol	0.02
α phellandren-8-ol	0.13
terpinen-4-ol	0.85
meta-cymen-8-ol	0.02
para-cymen-8-ol	0.02
α terpineol	0.06
cis-piperitol	0.05
trans-piperitol	0.03
thymol	0.02

Ketones

2-decanone	0.20
piperitone	0.05
1,4-Dimethyl-4-acetylcyclohexene	0.01
cryptone	0.05

Ethers

dehydro-1,8 cineole	0.03
rosefuran	0.01
perillene	0.01
epoxyterpinolene	0.02
dill ether	0.03
thymol methyl ether	0.03
humulene epoxide II	0.01
α phellandrene epoxide	0.01

Sesquiterpenes

cyclosativene I	0.02
cyclosativene II	0.03
α ylangene	0.02
β caryophyllene	0.03
α copaene	0.22
β elemene	0.08
β copaene	0.06
γ elemene	0.03
β barbatene	0.10
α humulene	0.39
β chamigrene	0.02
γ muurolene	0.02
germacrene d	0.16
ar-curcumene	0.01
γ amorphene	0.02
bicyclogermacrene	0.03
α zingiberene	0.05
aciphyllene	0.03
β bisabolene	0.04
α muurolene	0.07
δ cadinene	0.09
germacrene B	0.07

Sesquiterpenols

epicubebol	0.01
cubebol	0.03
α copaien-11-ol	0.19
α elemol	0.02
10-epi-junenol	0.07
1-epi-cubenol	0.03
τ muurolol	0.02
β eudesmol	0.04
α cadinol	0.01
Cyclocopacamphan-12-ol, epimer	0.03

Raw Material: Angelica Root

INCI Name: Angelica archangelica

Production Method: Steam distilled, Roots

Analyzed: 4/2018



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Esters

isobutyl senecioate	0.01
isoamy isovalerate	0.02
prenyl isovalerate	0.01
isoamyl senecioate	0.02
3-Methylpentyl isovalerate	0.01
(3Z)-Hexenyl isovalerate	0.01
4-Thujen-2 α -yl acetate	0.01
bornyl acetate	0.35
trans sabinyl acetate	0.04
trans pinocarvyl acetate	0.02
(3Z)-Hexenyl tiglate	0.02
trans carvyl acetate	0.02

Aldehydes

octanal	0.04
heptanal	0.01
hexanal	0.01
α campholenal	0.03
(2E)-nonenal	0.01
(3E,5E)-Undeca-1,3,5-triene	0.02
myrtenal	0.06
phellandral	0.03

Phenols

toluene	0.04
ortho-methylanisole	0.14

Other

γ campholenal	0.06
heptane	0.02
2-methyloctane	0.01
nonane	0.01
2-pentylfuran	0.01
trans-erythro-Davanafuran	0.01
tridecanolide	0.24
exaltolide	0.16
meta-camphorene	0.03
osthole	0.10

Date : April 09, 2018

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 18D05-NGA1-1-CC

Customer identification : Angelica Root - Belgium - #BE-58723

Type : Essential oil

Source : *Angelica archangelica*

Customer : Nature's Gift Aromatherapy

ANALYSIS

Method: PC-PA-014-17J19 - Analysis of the composition of an essential oil, or other volatile liquid, by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Alexis St-Gelais, M. Sc., chimiste

Analysis date : April 07, 2018

Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste 2013-174

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This report is digitally signed, it is only considered valid if the digital signature is intact.

PHYSICOCHEMICAL DATA

Physical aspect: Faintly yellow liquid

Refractive index: 1.4740 ± 0.0003 (20 °C)

CONCLUSION

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

ANALYSIS SUMMARY

Identification	DB-5 (%)	DB-WAX (%)	Classe
1,3-Pentadiene	tr	tr	Alkene
Heptane	0.02	0.02	Alkane
Toluene	0.04	0.69*	Simple phenolic
Octane	0.01*	tr	Alkane
Hexanal	[0.01]*		Aliphatic aldehyde
2-Methyloctane	0.01	0.01	Alkane
Heptanal	0.02*	0.01	Aliphatic aldehyde
Nonane	[0.02]*	tr	Alkane
Tricyclene	0.02	0.02	Monoterpene
α -Thujene	0.64	[0.69]*	Monoterpene
α -Pinene	20.17	20.05	Monoterpene
Camphene	0.85*	0.83	Monoterpene
α -Fenchene	[0.85]*	0.02	Monoterpene
Thuja-2,4(10)-diene	0.27	6.25*	Monoterpene
β -Pinene	7.17*	1.18	Monoterpene
Sabinene	[7.17]*	[6.25]*	Monoterpene
meta-Cymene	[7.17]*	0.17	Monoterpene
<i>trans</i> -meta-Mentha-2,8-diene	0.05*	0.02	Monoterpene
Dehydro-1,8-cineole	[0.05]*	0.03	Monoterpenic ether
2-Pentylfuran	0.01	0.02	Furan
Myrcene	4.92	4.93	Monoterpene
2-Carene	0.09	0.09	Monoterpene
Pseudolimonene	14.86*	14.68*	Monoterpene
Menthatriene isomer I	[14.86]*	0.05	Monoterpene
α -Phellandrene	[14.86]*	[14.68]*	Monoterpene
Octanal	[14.86]*	0.04*	Aliphatic aldehyde
ortho-Methylanisole	11.87*	0.14*	Simple phenolic
Δ^3 -Carene	[11.87]*	11.68	Monoterpene
α -Terpinene	0.84*	0.84	Monoterpene
Unknown	[0.84]*	[0.04]*	Monoterpene
ortho-Cymene	0.04	1.83*	Simple phenolic
para-Cymene	1.80	[1.83]*	Monoterpene
Limonene	20.26*	7.10	Monoterpene
β -Phellandrene	[20.26]*	13.14	Monoterpene
(Z)- β -Ocimene	1.49	1.55*	Monoterpene
(E)- β -Ocimene	4.35	4.35	Monoterpene
Unknown	0.04	[1.55]*	Monoterpene
γ -Terpinene	1.54	1.53	Monoterpene
Isobutyl senecioate	0.01	0.01	Aliphatic ester
meta-Cymenene	0.02	0.03*	Monoterpene
Isoterpinolene	0.53	0.54	Monoterpene
Terpinolene	1.06*	1.00	Monoterpene
γ -Campholenal	[1.06]*		Aliphatic alcohol
para-Cymenene	0.03	0.02	Monoterpene
Rosefuran	0.01		Monoterpenic ether
Perillene	0.01	0.02	Monoterpenic ether
Linalool	0.02	0.01	Monoterpenic alcohol
Isoamyl isovalerate	0.02	0.01	Aliphatic ester

1,3,8-para-Menthatriene	0.03	0.02	Monoterpene
Unknown	0.01	0.01	Oxygenated monoterpene
Unknown	0.02	0.01	Unknown
α -Campholenal	0.13*	0.03	Monoterpenic aldehyde
<i>cis</i> -para-Menth-2-en-1-ol	[0.13]*	0.13	Monoterpenic alcohol
allo-Ocimene	0.08*	0.05	Monoterpene
Menthatriene isomer III	[0.08]*	0.05	Monoterpene
Epoxyterpinolene	0.14*	0.02	Monoterpenic ether
<i>trans</i> -para-Menth-2-en-1-ol	[0.14]*	0.08	Monoterpenic alcohol
Cosmene isomer II	[0.14]*	[0.03]*	Monoterpene
Unknown	0.13*	0.03*	Unknown
1,4-Dimethyl-4-acetylcyclohexene	[0.13]*	0.01	Monoterpenic ketone
<i>cis</i> -Verbenol	[0.13]*	0.05*	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.09*	0.05	Monoterpenic alcohol
<i>trans</i> -Verbenol	[0.09]*	0.05	Monoterpenic alcohol
Prenyl isovalerate	0.01	0.01	Aliphatic ester
Borneol	0.02	0.03*	Monoterpenic alcohol
(2 <i>E</i>)-Nonenal	0.01	0.01	Aliphatic aldehyde
α -Phellandren-8-ol	0.13	[0.32]*	Monoterpenic alcohol
(3 <i>E</i> ,5 <i>E</i>)-Undeca-1,3,5-triene	1.00*	[0.14]*	Alkene
Terpinen-4-ol	[1.00]*	0.85	Monoterpenic alcohol
meta-Cymen-8-ol	0.07*	0.02	Monoterpenic alcohol
Cryptone	[0.07]*	[0.05]*	Normoterpenic ketone
(3 <i>E</i> ,5 <i>Z</i>)-Undeca-1,3,5-triene	0.04*	0.02	Alkene
Dill ether	[0.04]*	0.03	Monoterpenic ether
Isoamyl senecioate	0.02*	[0.03]*	Aliphatic ester
para-Cymen-8-ol	[0.02]*	0.03	Monoterpenic alcohol
α -Terpineol	0.07*	0.06	Monoterpenic alcohol
<i>cis</i> -Piperitol	[0.07]*	0.05	Monoterpenic alcohol
Myrtenal	0.06*	0.06	Monoterpenic aldehyde
2-Decanone	[0.06]*	0.24*	Aliphatic ketone
α -Phellandrene epoxide	0.01	0.03	Monoterpenic ether
Unknown	0.06*	0.04	Unknown
<i>trans</i> -Piperitol	[0.06]*	0.03	Monoterpenic alcohol
Unknown	[0.06]*		Unknown
3-Methylpentyl isovalerate?	0.01	0.01	Aliphatic ester
Unknown	0.03	0.03	Oxygenated monoterpene
Thymol methyl ether	0.03	0.10*	Monoterpenic ether
Unknown	0.03		Oxygenated monoterpene
(3 <i>Z</i>)-Hexenyl isovalerate	0.01	0.01	Aliphatic ester
Piperitone	0.05*		Monoterpenic ketone
Unknown	[0.05]*	0.01	Unknown
Unknown	[0.05]*	0.01	Oxygenated monoterpene
Phellandral	0.03	0.04	Monoterpenic aldehyde
4-Thujen-2 α -yl acetate	0.01	0.01	Monoterpenic ester
Bornyl acetate	0.35	0.34	Monoterpenic ester
<i>trans</i> -Sabinyl acetate	0.04	0.04	Monoterpenic ester
Unknown	0.09	0.13*	Oxygenated monoterpene
<i>trans</i> -Pinocarvyl acetate	0.02	[0.13]*	Monoterpenic ester
Thymol	0.02	0.05*	Monoterpenic alcohol
(3 <i>Z</i>)-Hexenyl tiglate	0.02	0.01	Aliphatic ester
Unknown	0.04	0.04	Unknown

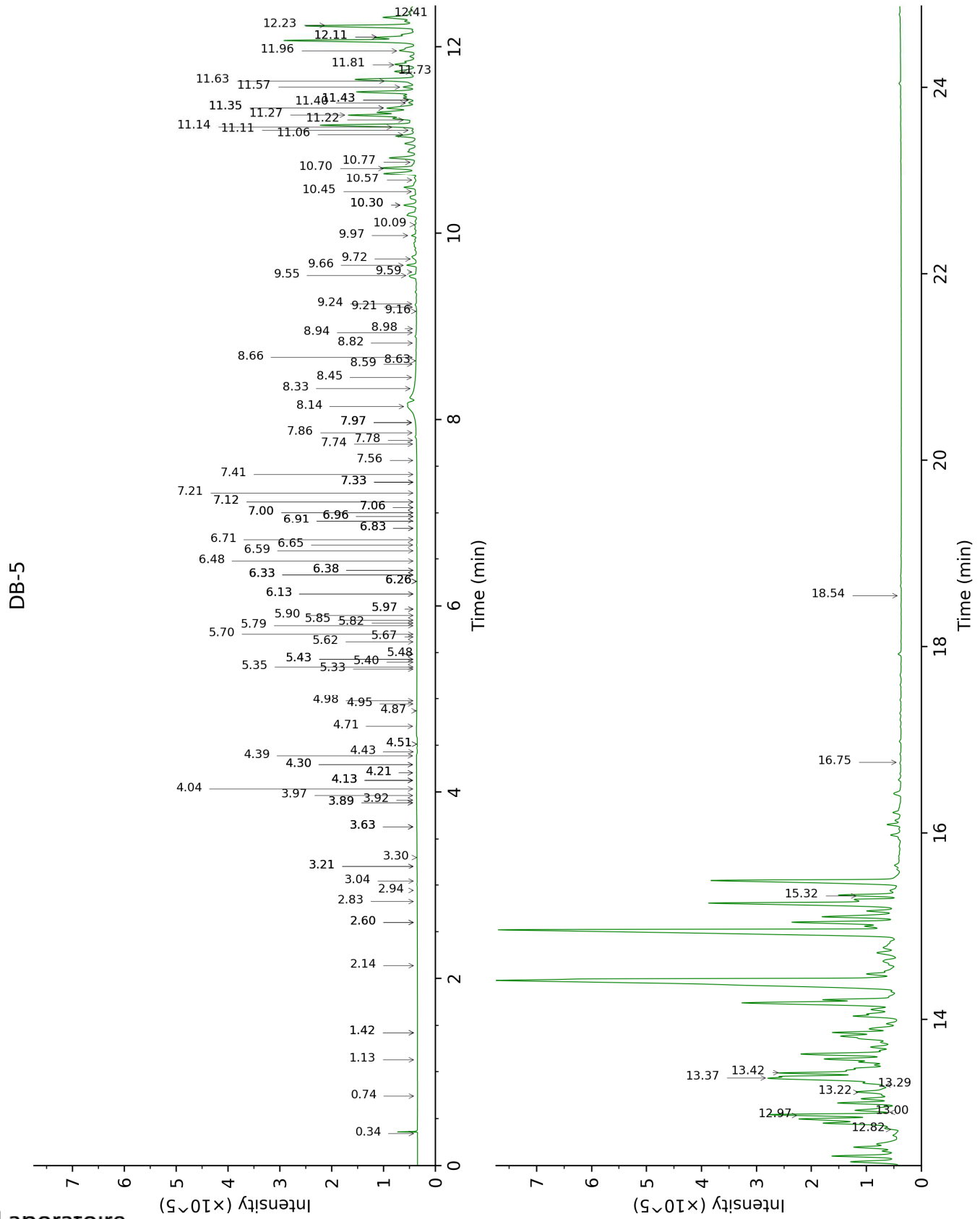
Unknown	0.06	0.06	Unknown
Unknown	0.02	0.02*	
<i>trans</i> -Carvyl acetate	0.02	0.04	Monoterpenic ester
Cyclosativene I	0.02	0.02	Sesquiterpene
Cyclosativene II	0.03	0.02	Sesquiterpene
α -Ylangene	0.02	0.02	Sesquiterpene
α -Copaene	0.22	[0.24]*	Sesquiterpene
β -Elemene	0.08	[0.10]*	Sesquiterpene
<i>trans</i> -erythro-Davana-furan?	0.01	0.02	Furan
β -Ylangene	0.05*	0.02	Sesquiterpene
β -Caryophyllene	[0.05]*	[0.10]*	Sesquiterpene
β -Copaene	0.06	0.04	Sesquiterpene
γ -Elemene	0.03	0.05*	Sesquiterpene
β -Barbatene	0.10	[0.05]*	Sesquiterpene
α -Humulene	0.39	0.38	Sesquiterpene
β -Chamigrene	0.02	0.01	Sesquiterpene
γ -Muurole	0.02	0.02	Sesquiterpene
Germacrene D	0.16	0.17	Sesquiterpene
<i>ar</i> -Curcumene	0.01	0.01	Sesquiterpene
γ -Amorphene	0.02	0.02	Sesquiterpene
Bicyclogermacrene	0.04*	0.32*	Sesquiterpene
<i>epi</i> -Cubebol	[0.04]*	0.01	Sesquiterpenic alcohol
α -Zingiberene	0.05	[0.32]*	Sesquiterpene
Aciphyllene	0.10*	[0.03]*	Sesquiterpene
α -Muurole	[0.10]*	[0.32]*	Sesquiterpene
β -Bisabolene	0.04	[0.32]*	Sesquiterpene
Cubebol	0.03	0.02	Sesquiterpenic alcohol
δ -Cadinene	0.09	0.10	Sesquiterpene
Unknown	0.15	0.04	Sesquiterpene
α -Copaen-11-ol	0.19	0.18	Sesquiterpenic alcohol
α -Elemol	0.08*	0.02	Sesquiterpenic alcohol
Germacrene B	[0.08]*	0.07	Sesquiterpene
Unknown	0.07	0.08	Oxygenated sesquiterpene
10- <i>epi</i> -Junenol	0.07	0.03	Sesquiterpenic alcohol
Humulene epoxide II	0.01	[0.02]*	Sesquiterpenic ether
Tridecanolide	0.24	0.25	Aliphatic lactone
1- <i>epi</i> -Cubenol	0.03	0.03	Sesquiterpenic alcohol
τ -Muurolol	0.02	[0.05]*	Sesquiterpenic alcohol
β -Eudesmol	0.04	0.03	Sesquiterpenic alcohol
α -Cadinol	0.01	0.01	Sesquiterpenic alcohol
Cyclocopacamphan-12-ol, epimer A	0.03	0.03	Sesquiterpenic alcohol
Exaltolide	0.16	0.16	Aliphatic lactone
<i>meta</i> -Camphorene	0.03	0.03	Diterpene
Osthole	0.10		Coumarin
Menthatriene isomer 0		0.11	Monoterpene
Unknown		0.01	Oxygenated monoterpene
Unknown		0.02	Unknown
Unknown		0.03	Oxygenated monoterpene
Total identified	98.34%	97.92%	

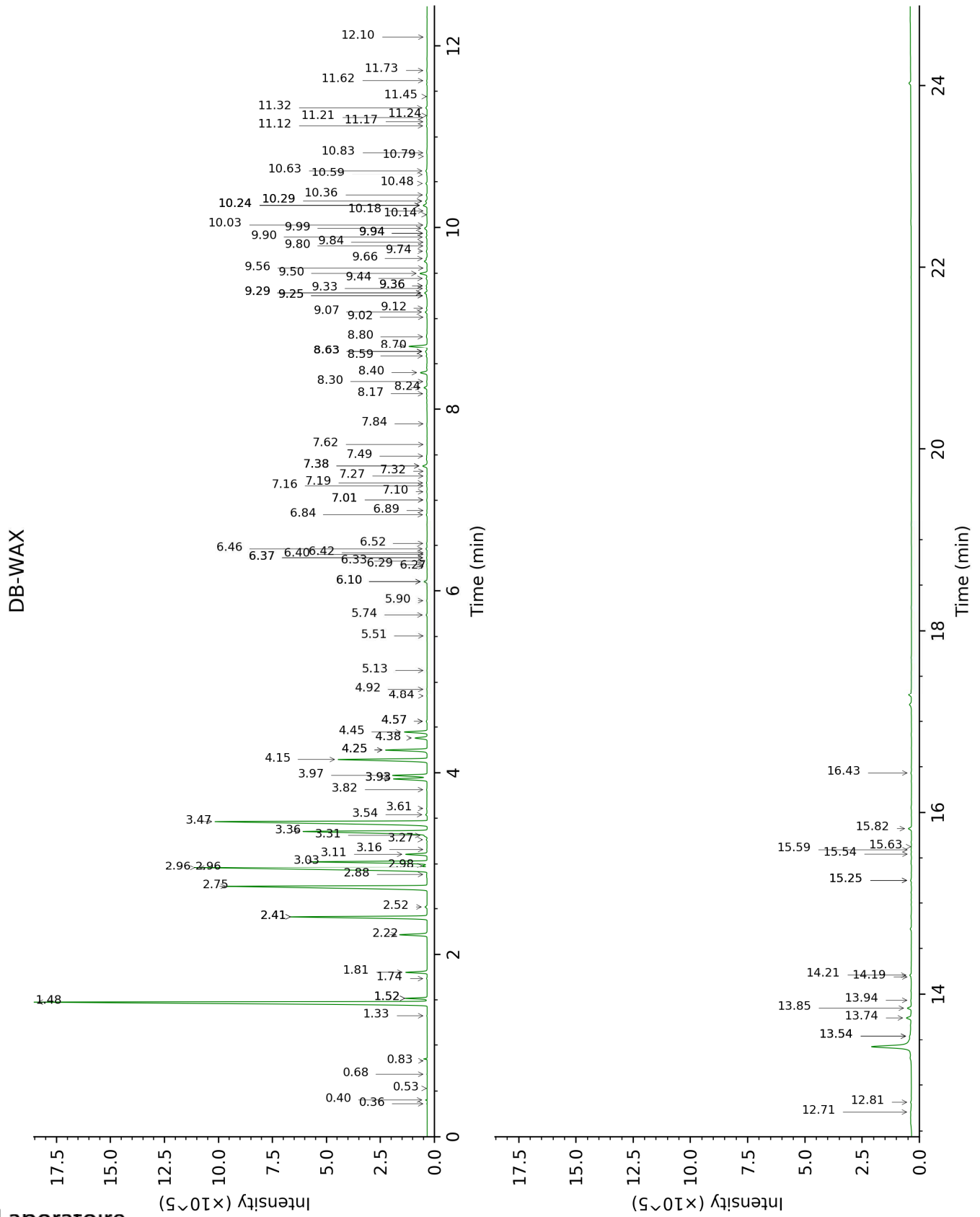
*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

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

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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
1,3-Pentadiene	0.34	496	tr	0.36	634	tr
Heptane	0.74	693	0.02	0.40	685	0.02
Toluene	1.13	754	0.04	1.52*	1004	0.69
Octane	1.42*	797	0.01	0.53	791	tr
Hexanal	1.42*	797	[0.01]			
2-Methyloctane	2.14	860	0.01	0.68	850	0.01
Heptanal	2.60*	898	0.02	3.16	1148	0.01
Nonane	2.60*	898	[0.02]	0.83	899	tr
Tricyclene	2.82	914	0.02	1.33	977	0.02
α -Thujene	2.94	922	0.64	1.52*	1004	[0.69]
α -Pinene	3.04	929	20.17	1.48	1000	20.05
Camphene	3.21*	940	0.85	1.81	1031	0.83
α -Fenchene	3.21*	940	[0.85]	1.74	1025	0.02
Thuja-2,4(10)-diene	3.30	946	0.27	2.41*	1089	6.25
β -Pinene	3.63*	968	7.17	2.22	1070	1.18
Sabinene	3.63*	968	[7.17]	2.41*	1089	[6.25]
meta-Cymene	3.63*	968	[7.17]	2.98	1134	0.17
<i>trans</i> -meta-Mentha-2,8-diene	3.89*	985	0.05	2.88	1126	0.02
Dehydro-1,8-cineole	3.89*	985	[0.05]	3.27	1156	0.03
2-Pentylfuran	3.92	987	0.01	3.82	1198	0.02
Myrcene	3.97	990	4.92	3.03	1138	4.93
2-Carene	4.04	995	0.09	2.52	1099	0.09
Pseudolimonene	4.13*	1001	14.86	2.96*	1132	14.68
Menthatriene isomer I	4.13*	1001	[14.86]	3.54	1177	0.05
α -Phellandrene	4.13*	1001	[14.86]	2.96*	1132	[14.68]
Octanal	4.13*	1001	[14.86]	4.56*	1251	0.04
ortho-Methylanisole	4.21*	1006	11.87	6.10*	1359	0.14
Δ 3-Carene	4.21*	1006	[11.87]	2.75	1116	11.68
α -Terpinene	4.30*	1012	0.84	3.11	1144	0.84
Unknown [m/z 117, 132 (96), 115 (65), 91 (44), 131 (19), 116 (18)]	4.30*	1012	[0.84]	4.56*	1251	[0.04]
ortho-Cymene	4.39	1017	0.04	4.25*	1228	1.83
para-Cymene	4.43	1020	1.80	4.25*	1228	[1.83]
Limonene	4.52*	1025	20.26	3.36	1163	7.10
β -Phellandrene	4.52*	1025	[20.26]	3.47	1171	13.14
(Z)- β -Ocimene	4.71	1037	1.49	3.93*	1206	1.55
(E)- β -Ocimene	4.87	1048	4.35	4.15	1221	4.35
Unknown [m/z 93, 91 (54), 92 (31), 77 (29), 79 (17), 43 (13), 41 (10), 136 (9)]	4.94	1052	0.04	3.93*	1206	[1.55]
γ -Terpinene	4.98	1054	1.54	3.97	1209	1.53
Isobutyl senecioate	5.32	1076	0.01	5.51	1316	0.01
meta-Cymenene	5.35	1078	0.02	6.37*	1378	0.03

Isoterpinolene	5.40	1081	0.53	4.38	1238	0.54
Terpinolene	5.43*	1083	1.06	4.45	1242	1.00
γ-Campholenal	5.43*	1083	[1.06]			
para-Cymenene	5.48	1086	0.03	6.52	1389	0.02
Rosefuran	5.62	1094	0.01			
Perillene	5.67	1098	0.01	6.29	1372	0.02
Linalool	5.70	1100	0.02	8.17	1513	0.01
Isoamyl isovalerate	5.79	1105	0.02	4.84	1270	0.01
1,3,8-para-Menthatriene	5.82	1107	0.03	5.90	1344	0.02
Unknown [m/z 109, 81 (54), 91 (32), 79 (22)...]	5.85	1109	0.01	6.42	1382	0.01
Unknown [m/z 121, 136 (98), 93 (91), 91 (53), 79 (45), 77 (34)...]	5.90	1112	0.02	5.13	1291	0.01
α-Campholenal	5.97*	1117	0.13	7.19	1439	0.03
cis-para-Menth-2-en-1-ol	5.97*	1117	[0.13]	8.24	1518	0.13
allo-Ocimene	6.13*	1127	0.08	5.74	1333	0.05
Menthatriene isomer III	6.13*	1127	[0.08]	6.46	1385	0.05
Epoxyterpinolene	6.26*	1136	0.14	6.89	1416	0.02
trans-para-Menth-2-en-1-ol	6.26*	1136	[0.14]	9.08	1583	0.08
Cosmene isomer II	6.26*	1136	[0.14]	6.37*	1378	[0.03]
Unknown [m/z 109, 124 (45), 119 (41), 43 (35), 91 (28), 95 (25)...]	6.33*	1140	0.13	7.01*	1425	0.03
1,4-Dimethyl-4-acetylcyclohexene	6.33*	1140	[0.13]	7.62	1470	0.01
cis-Verbenol	6.33*	1140	[0.13]	9.36*	1606	0.05
meta-Mentha-4,6-dien-8-ol	6.38*	1143	0.09	9.44	1612	0.05
trans-Verbenol	6.38*	1143	[0.09]	9.66	1630	0.05
Prenyl isovalerate	6.48	1150	0.01	6.40	1381	0.01
Borneol	6.59	1156	0.02	9.94*	1653	0.03
(2E)-Nonenal	6.65	1160	0.01	7.84	1487	0.01
α-Phellandren-8-ol	6.71	1164	0.13	10.29*†	1681	[0.32]
(3E,5E)-Undeca-1,3,5-triene	6.83*	1172	1.00	6.10*	1359	[0.14]
Terpinen-4-ol	6.83*	1172	[1.00]	8.70	1554	0.85
meta-Cymen-8-ol	6.91*	1177	0.07	11.62	1794	0.02
Cryptone	6.91*	1177	[0.07]	9.36*	1606	[0.05]
(3E,5Z)-Undeca-1,3,5-triene	6.96*	1180	0.04	6.33	1375	0.02
Dill ether	6.96*	1180	[0.04]	7.49	1461	0.03
Isoamyl senecioate	7.00*	1183	0.02	7.01*	1425	[0.03]
para-Cymen-8-ol	7.00*	1183	[0.02]	11.73	1804	0.03
α-Terpineol	7.06*	1186	0.07	9.90	1649	0.06

<i>cis</i> -Piperitol	7.06*	1186	[0.07]	9.74	1637	0.05
Myrtenal	7.12*	1190	0.06	8.80	1562	0.06
2-Decanone	7.12*	1190	[0.06]	7.38*	1453	0.24
α -Phellandrene epoxide	7.22	1196	0.01	11.17	1756	0.03
Unknown [m/z 105, 91 (99), 145 (98), 117 (70), 160 (68), 131 (53), 79 (52), 77 (42)]	7.33*	1204	0.06	6.84	1413	0.04
<i>trans</i> -Piperitol	7.33*	1204	[0.06]	10.59	1706	0.03
Unknown [m/z 109, 41 (42), 81 (39), 69 (32), 79 (25), 159 (23)... 174 (7)]	7.33*	1204	[0.06]			
3-Methylpentyl isovalerate?	7.41	1210	0.01	6.27	1371	0.01
Unknown [m/z 119, 43 (52), 59 (45), 91 (36), 79 (24), 134 (23)...]	7.56	1220	0.03	11.21	1759	0.03
Thymol methyl ether	7.74	1231	0.03	8.64*	1549	0.10
Unknown [m/z 83, 55 (26), 69 (12), 68 (11), 41 (7)...152?]	7.78	1234	0.03			
(3 <i>Z</i>)-Hexenyl isovalerate	7.86	1239	0.01	7.32	1449	0.01
Piperitone	7.97*	1247	0.05			
Unknown [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	7.97*	1247	[0.05]	11.24	1761	0.01
Unknown [m/z 109, 119 (84), 91 (81), 134 (55)... 137 (27)...]	7.97*	1247	[0.05]	11.44	1779	0.01
Phellandral	8.14	1258	0.03	10.14	1669	0.04
4-Thujen-2 α -yl acetate	8.33	1271	0.01	9.02	1579	0.01
Bornyl acetate	8.45	1279	0.35	8.40	1531	0.34
<i>trans</i> -Sabinyl acetate	8.59	1288	0.04	9.33	1603	0.04
Unknown [m/z 107, 43 (98), 91 (94), 92 (46), 150 (41)... 194 (2)]	8.63	1291	0.09	9.28*	1599	0.13
<i>trans</i> -Pinocarvyl acetate	8.66	1293	0.02	9.28*	1599	[0.13]
Thymol	8.82	1304	0.02	15.25*	2134	0.05
(3 <i>Z</i>)-Hexenyl tiglate	8.94	1312	0.02	9.56	1622	0.01
Unknown [m/z 181, 196 (26), 150 (24), 135 (16), 182 (10)...]	8.98	1315	0.04	9.12	1586	0.04

Unknown [m/z 91, 92 (41), 43 (20), 93 (17), 108 (13)... 134 (9)...]	9.16	1328	0.06	10.48	1697	0.06
Unknown [m/z 43, 97 (99), 107 (47), 41 (35), 55 (30)...]	9.21	1331	0.02	13.54*	1968	0.02
<i>trans</i> -Carvyl acetate	9.24	1334	0.02	10.36	1687	0.04
Cyclosativene I	9.55	1355	0.02	7.10	1432	0.02
Cyclosativene II	9.58	1358	0.03	7.16	1437	0.02
α -Ylangene	9.66	1363	0.02	7.27	1445	0.02
α -Copaene	9.72	1367	0.22	7.38*	1453	[0.24]
β -Elemene	9.98	1385	0.08	8.64*	1549	[0.10]
<i>trans</i> -erythro-Davanafuran?	10.09	1393	0.01	10.18	1673	0.02
β -Ylangene	10.30*	1408	0.05	8.30	1523	0.02
β -Caryophyllene	10.30*	1408	[0.05]	8.64*	1549	[0.10]
β -Copaene	10.44	1419	0.06	8.59	1545	0.04
γ -Elemene	10.57	1428	0.03	9.25*	1597	0.05
β -Barbatene	10.70	1438	0.10	9.25*	1597	[0.05]
α -Humulene	10.76	1443	0.39	9.50	1617	0.38
β -Chamigrene	11.06	1465	0.02	9.84	1645	0.01
γ -Muurolene	11.11	1468	0.02	9.80	1641	0.02
Germacrene D	11.14	1471	0.16	9.99	1657	0.17
<i>ar</i> -Curcumene	11.22	1477	0.01	10.79	1723	0.01
γ -Amorphene	11.27	1480	0.02	10.03	1660	0.02
Bicyclogermacrene	11.35*	1486	0.04	10.24*†	1678	0.32
<i>epi</i> -Cubebol	11.35*	1486	[0.04]	12.10	1836	0.01
α -Zingiberene	11.40	1490	0.05	10.24*†	1678	[0.32]
Aciphyllene	11.43*	1492	0.10	9.94*	1653	[0.03]
α -Muurolene	11.43*	1492	[0.10]	10.24*†	1678	[0.32]
β -Bisabolene	11.57	1503	0.04	10.29*†	1681	[0.32]
Cubebol	11.63	1508	0.03	12.71	1891	0.02
δ -Cadinene	11.73	1515	0.09	10.63	1710	0.10
Unknown [m/z 119, 105 (53), 161 (33), 93 (28), 91 (25), 40 (20)...204]	11.81	1521	0.15	10.83	1726	0.04
α -Copaen-11-ol	11.96	1533	0.19	13.85	1996	0.18
α -Elemol	12.10*	1545	0.08	14.19	2030	0.02
Germacrene B	12.10*	1545	[0.08]	11.32	1768	0.07
Unknown [m/z 119, 159 (90), 145 (59), 105 (56), 91 (41), 160 (38), 131 (35)... 220 (1)]	12.23	1554	0.07	14.21	2031	0.08
10- <i>epi</i> -Junenol	12.41	1569	0.07	12.81	1900	0.03
Humulene epoxide II	12.82	1601	0.01	13.54*	1968	[0.02]
Tridecanolide	12.97	1613	0.24	13.74	1986	0.25
1- <i>epi</i> -Cubenol	13.00	1616	0.03	13.94	2005	0.03
τ -Muurolol	13.22	1633	0.02	15.25*	2134	[0.05]

β-Eudesmol	13.29	1640	0.04	15.59	2168	0.03
α-Cadinol	13.37	1646	0.01	15.63	2172	0.01
Cyclocopacamphan-12-ol, epimer A	13.42	1650	0.03	16.44	2255	0.03
Exaltolide	15.32	1812	0.16	15.82	2192	0.16
meta-Camphorene	16.76	1944	0.03	15.54	2163	0.03
Osthole	18.54	2120	0.10			
Menthatriene isomer 0				3.32	1160	0.11
Unknown [m/z 109, 81 (35), 43 (34), 69 (33), 67 (29), 152 (29)]				3.61	1182	0.01
Unknown [m/z 91, 93 (87), 92 (72), 77 (61), 58 (51), 79 (43)... 135 (27)...]				4.92	1276	0.02
Unknown [m/z 79, 107 (80), 121 (74), 91 (71), 150 (63)]				11.12	1752	0.03
Total identified		98.34%			97.92%	
Total reported		98.90%			98.32%	

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified 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