PhytoChemia

Date : 2026-10-26

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 26I22-PTH02
Customer Identification : Frankincense Carterii - Somaliland - F30120
Type : Essential Oil
Source : *Boswellia carteri*
Customer : Plant Therapy

Checked and approved by:

_____
Sylvain Mercier, M. Sc., Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update of the version first issued on 2026-09-28 to make a modification in the sample identification section.

Méthode certifiée ISO 17025:2017 Certified Method

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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 : Jean-Christophe Fortin, M. Sc.
Date : 2026-09-28

Physicochemical data

Physical aspect : Faintly yellow liquid
Analyst : Cindy Caron B. Sc.
Date : 2026-09-22

Refractive index : 1.4726 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2026-09-22

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
2-Methyl-3-buten-2-ol	0.01	Aliphatic alcohol
3-Methyl-2-butanone	tr	Aliphatic ketone
Toluene	0.04	Simple phenolic
Unknown	0.01	Alkene
Unknown	0.01	Unknown
Hashishene	0.09	Monoterpene
Tricyclene	0.05	Monoterpene
α-Thujene	5.09	Monoterpene
α-Pinene	43.62	Monoterpene
Unknown	0.15	Monoterpene
α-Fenchene	0.02	Monoterpene
Camphene	0.47	Monoterpene
Thuja-2,4(10)-diene	0.16	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.09	Monoterpene
β-Pinene	3.82	Monoterpene
Sabinene	5.69	Monoterpene
Pseudolimonene isomer	0.02	Monoterpene
6-Methyl-5-hepten-2-one	0.02	Aliphatic ketone
Dehydro-1,8-cineole	0.03	Monoterpenic ether
Myrcene	3.60	Monoterpene
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α-Phellandrene	1.53	Monoterpene
Pseudolimonene	0.11	Monoterpene
Octanal	0.01	Aliphatic aldehyde
Δ3-Carene	1.14	Monoterpene
ortho-Methylanisole	0.01	Simple phenolic
α-Terpinene	0.11	Monoterpene
meta-Cymene	0.04	Monoterpene
para-Cymene	3.99	Monoterpene
β-Phellandrene	0.28	Monoterpene
Limonene	10.01	Monoterpene
1,8-Cineole	0.16	Monoterpenic ether
ortho-Cymene	0.02	Monoterpene
(*Z*)-β-Ocimene	0.08	Monoterpene
Unknown	0.03	Unknown
(*E*)-β-Ocimene	0.06	Monoterpene

γ-Terpinene	0.33	Monoterpene
cis-Sabinene hydrate	0.02	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Octanol	0.20	Aliphatic alcohol
Unknown	0.03	Oxygenated monoterpene
Terpinolene	0.08	Monoterpene
para-Cymenene	0.05	Monoterpene
α-Pinene oxide	0.10	Monoterpenic ether
6,7-Epoxymyrcene	0.02	Monoterpenic ether
trans-Sabinene hydrate	0.02	Monoterpenic alcohol
α-Thujone	0.02	Monoterpenic ketone
Linalool	0.12	Monoterpenic alcohol
Unknown	0.02	Monoterpenic alcohol
Verbenol analog?	0.03	Monoterpenic alcohol
β-Thujone	0.13	Monoterpenic ketone
cis-*para*-Menth-2-en-1-ol	0.02	Monoterpenic alcohol
trans-*para*-Mentha-2,8-dien-1-ol	0.05	Monoterpenic alcohol
Myrcenol	0.07	Monoterpenic alcohol
α-Campholenal	0.07	Monoterpenic aldehyde
cis-Limonene oxide	0.02	Monoterpenic ether
trans-Pinocarveol	0.33	Monoterpenic alcohol
trans-Limonene oxide	0.02	Monoterpenic ether
trans-Sabinol	0.13	Monoterpenic alcohol
cis-Verbenol	0.01	Monoterpenic alcohol
trans-Verbenol	0.32	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.11	Monoterpenic alcohol
Unknown	0.04	Oxygenated monoterpene
Sabinaketone	0.04	Normonoterpenic ketone
Pinocamphone	0.04	Monoterpenic ketone
Pinocarvone	0.02	Monoterpenic ketone
Borneol	0.02	Monoterpenic alcohol
α-Phellandren-8-ol	0.23	Monoterpenic alcohol
cis-Sabinol	0.11	Monoterpenic alcohol
Umbellulone	0.03	Monoterpenic ketone
Terpinen-4-ol	0.76	Monoterpenic alcohol
Thuj-3-en-10-al	0.08	Monoterpenic aldehyde
Cryptone	0.14	Normonoterpenic ketone
para-Cymen-8-ol	0.01	Monoterpenic alcohol
α-Terpineol	0.42	Monoterpenic alcohol
Myrtenal	0.09	Monoterpenic aldehyde

Myrtenol	0.17	Monoterpenic alcohol
cis-α-Phellandrene epoxide (iPr vs Me)	0.13	Monoterpenic ether
Verbenone	0.26	Monoterpenic ketone
trans-Piperitol	0.03	Monoterpenic alcohol
trans-Carveol	0.13	Monoterpenic alcohol
Octyl acetate	1.94	Aliphatic ester
cis-Carveol	0.05	Monoterpenic alcohol
Cuminal	0.06	Monoterpenic aldehyde
Carvone	0.11	Monoterpenic ketone
Carvotanacetone	0.03	Monoterpenic ketone
Piperitone	0.04	Monoterpenic ketone
Linalyl acetate	0.01	Monoterpenic ester
3,5-Dimethoxytoluene	0.04	Simple phenolic
Unknown	0.05	Oxygenated monoterpene
Decanol	0.02	Aliphatic alcohol
Bornyl acetate	0.18	Monoterpenic ester
para-Cymen-7-ol	0.03	Monoterpenic alcohol
Thymol	0.03	Monoterpenic alcohol
Carvacrol	0.05	Monoterpenic alcohol
Bicycloelemene	0.02	Sesquiterpene
Unknown	0.01	Unknown
α-Cubebene	0.13	Sesquiterpene
α-Terpinyl acetate	0.03	Monoterpenic ester
Cyclosativene I	0.02	Sesquiterpene
Cyclosativene II	0.02	Sesquiterpene
α-Ylangene	0.02	Sesquiterpene
α-Copaene	0.40	Sesquiterpene
β-Bourbonene	0.08	Sesquiterpene
1,5-diepi-β-Bourbonene	0.01	Sesquiterpene
Geranyl acetate	0.02	Monoterpenic ester
β-Cubebene	0.06	Sesquiterpene
β-Elemene	0.47	Sesquiterpene
Isocaryophyllene	0.02	Sesquiterpene
α-Gurjunene	0.05	Sesquiterpene
β-Caryophyllene	3.09	Sesquiterpene
β-Copaene	0.04	Sesquiterpene
trans-α-Bergamotene	0.07	Sesquiterpene
6,9-Guaiadiene	0.02	Sesquiterpene
Unknown	0.02	Sesquiterpene
trans-Muurola-3,5-diene	0.02	Sesquiterpene
α-Humulene	0.40	Sesquiterpene

allo-Aromadendrene	0.10	Sesquiterpene
cis-Muurola-4(15),5-diene	0.02	Sesquiterpene
trans-Cadina-1(6),4-diene	0.05	Sesquiterpene
γ-Muurolene	0.24	Sesquiterpene
Germacrene D	0.13	Sesquiterpene
β-Selinene	0.21	Sesquiterpene
trans-Muurola-4(15),5-diene	0.01	Sesquiterpene
δ-Selinene	0.10	Sesquiterpene
epi-Cubebol	0.08	Sesquiterpenic alcohol
Bicyclogermacrene	0.01	Sesquiterpene
α-Selinene	0.18	Sesquiterpene
α-Muurolene	0.13	Sesquiterpene
γ-Cadinene	0.31	Sesquiterpene
Cubebol	0.17	Sesquiterpenic alcohol
trans-Calamenene	0.06	Sesquiterpene
δ-Cadinene	0.63	Sesquiterpene
trans-Cadina-1,4-diene	0.03	Sesquiterpene
α-Cadinene	0.03	Sesquiterpene
α-Calacorene	0.02	Sesquiterpene
α-Elemol	0.03	Sesquiterpenic alcohol
Isocaryophyllene epoxide B	0.03	Sesquiterpenic ether
Germacrene B	0.04	Sesquiterpene
Elemicin	0.02	Phenylpropanoid
Palustrol	0.02	Sesquiterpenic alcohol
Unknown	0.03	Oxygenated sesquiterpene
Germacrene D-4-ol	0.05	Sesquiterpenic alcohol
Caryophyllene oxide	0.60	Sesquiterpenic ether
Caryophyllene oxide isomer	0.04	Sesquiterpenic ether
Viridiflorol	0.14	Sesquiterpenic alcohol
Copaborneol	0.08	Sesquiterpenic alcohol
Humulene epoxide II	0.11	Sesquiterpenic ether
1,10-diepi-Cubenol	0.05	Sesquiterpenic alcohol
Junenol	0.02	Sesquiterpenic alcohol
1-epi-Cubenol	0.07	Sesquiterpenic alcohol
τ-Muurolol	0.03	Sesquiterpenic alcohol
τ-Cadinol	0.36	Sesquiterpenic alcohol
α-Muurolol	0.05	Sesquiterpenic alcohol
β-Eudesmol	0.17	Sesquiterpenic alcohol
α-Eudesmol	0.03	Sesquiterpenic alcohol
α-Cadinol	0.03	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.06	Sesquiterpenic alcohol

Shyobunol	0.01	Sesquiterpenic alcohol
α-Phellandrene dimer II	0.04	Diterpene
α-Phellandrene dimer III	0.01	Diterpene
α-Phellandrene dimer IV	0.01	Diterpene
(3*E*)-Cembrene A	0.19	Diterpene
Cembrene C	0.05	Diterpene
Verticilla-4(20),7,11-triene	0.02	Diterpene
Cembrenol	0.06	Diterpenic alcohol
Incensole	0.20	Diterpenic alcohol
Serratol	0.31	Diterpenic alcohol
Incensyl acetate	0.09	Diterpenic ester
Consolidated total	**98.88**	

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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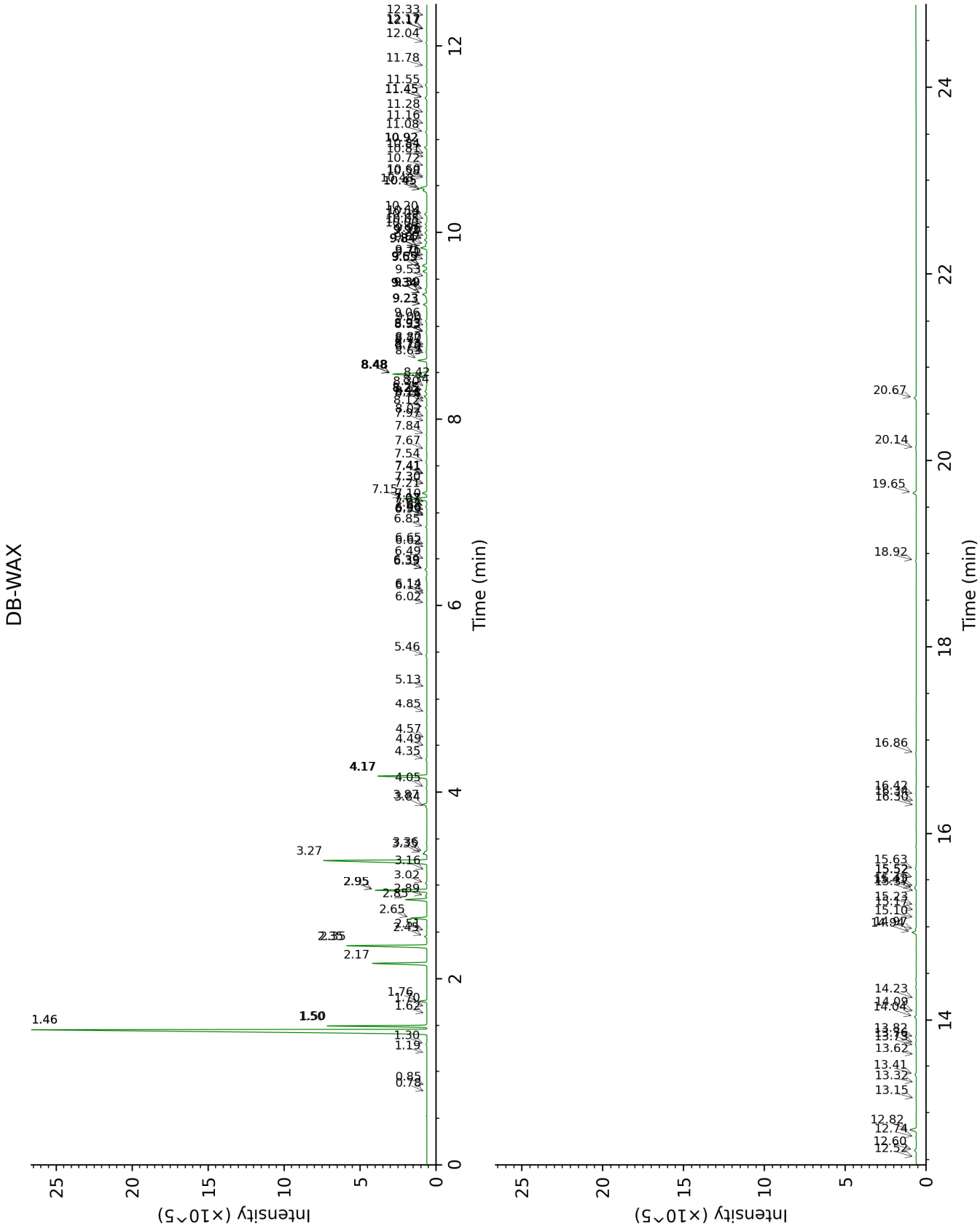
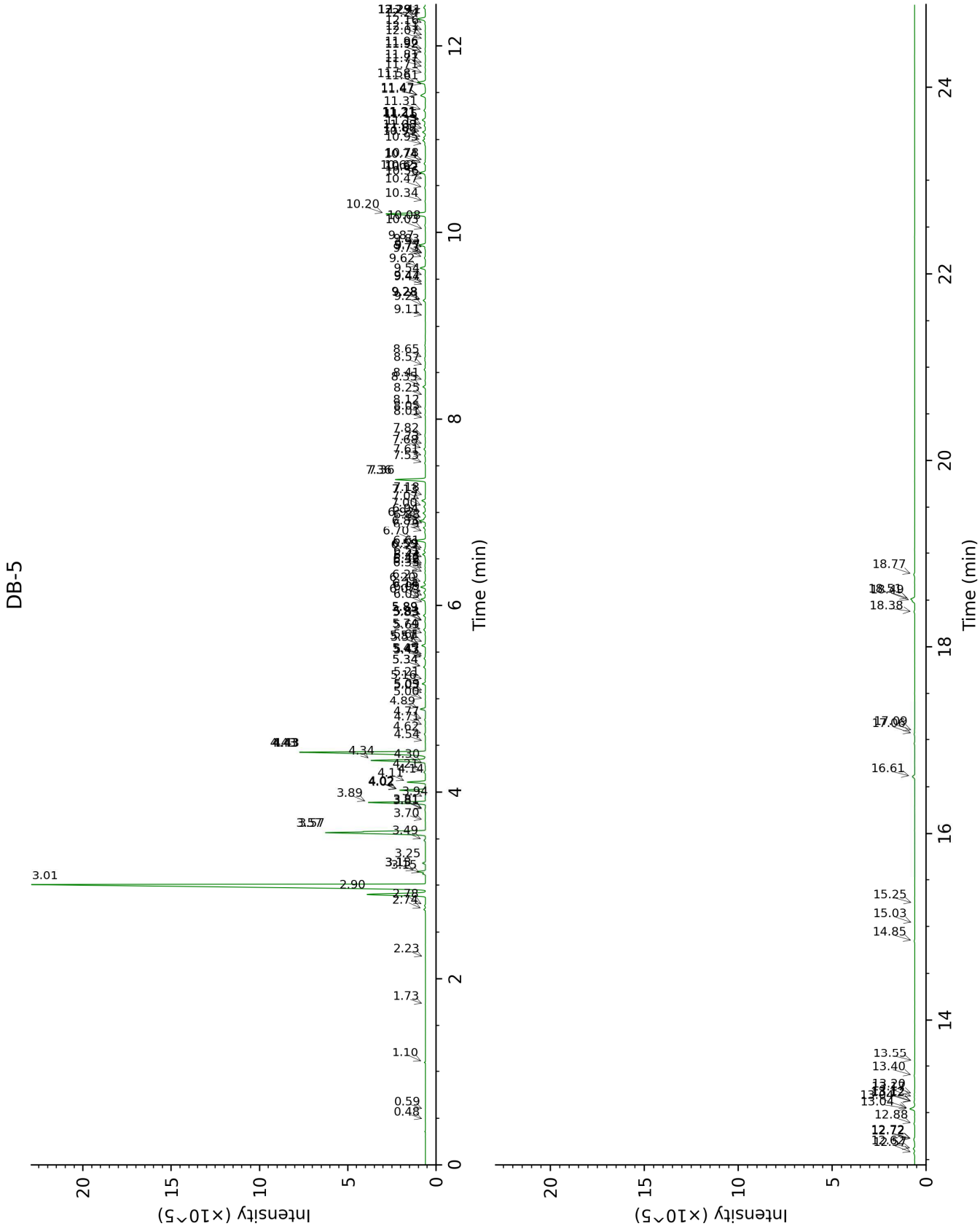

DB-WAX
Intensity (×10^5)
Time (min)
1.46
1.50
2.17
2.35
2.95
3.27
4.17
8.48
20.67
20.14
19.65
18.92
16.86


DB-5
Intensity (×10^5)
Time (min)
3.01
2.90
4.34
3.89
10.20
18.77
18.38
16.61
15.25
15.03
14.85
13.55
13.40
12.88

Full analysis data

2-Methyl-3-buten-2-ol	Column DB-WAX			Column DB-5		
	1.62	1014.3	tr	0.48	607.6	0.01
3-Methyl-2-butanone	0.85	902.3	tr	0.59	649.1	tr
Toluene	1.50*	1001.9	[5.14]	1.10	759.4	0.04
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.78	881.7	0.01	1.73	832.5	0.01
Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	1.19	956.8	0.01	2.23	875.4	0.01
Hashishene	1.46*	998.0	[43.76]	2.74	916.3	0.09
Tricyclene	1.30	973.2	0.06	2.78	919.1	0.05
α-Thujene	1.50*	1001.9	[5.14]	2.90	927.2	5.09
α-Pinene	1.46*	998.0	[43.76]	3.01	934.3	43.62
Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)]	2.45	1095.5	0.15	3.13	942.6	0.15
α-Fenchene	1.70	1021.2	0.02	3.15*	944.0	[0.47]
Camphene	1.76	1027.6	0.47	3.15*	944.0	[0.47]
Thuja-2,4(10)-diene	2.36*	1085.8	[5.85]	3.24	950.1	0.16
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.95*	1134.7	[3.69]	3.49	966.5	0.09
β-Pinene	2.17	1067.2	3.82	3.57*	972.0	[9.52]
Sabinene	2.36*	1085.8	[5.85]	3.57*	972.0	[9.52]
Pseudolimonene isomer	2.51	1100.6	0.03	3.70	980.8	0.02
6-Methyl-5-hepten-2-one	5.13	1300.1	0.01	3.81	988.2	0.02
Dehydro-1,8-cineole	3.16	1151.7	0.03	3.82	988.6	0.03
Myrcene	2.95*	1134.7	[3.69]	3.89	993.7	3.60
6-Methyl-5-hepten-2-ol	6.96*	1429.4	[0.02]	3.94	996.8	0.02
α-Phellandrene	2.85	1126.8	1.53	4.02*	1002.6	[1.67]
Pseudolimonene	2.89	1130.0	0.11	4.02*	1002.6	[1.67]

Octanal	4.49	1252.7	0.01	4.02*	1002.6	[1.67]
Δ3-Carene	2.65	1111.3	1.11	4.11	1008.1	1.14
ortho-Methylanisole	6.02	1361.2	0.03	4.14	1010.3	0.01
α-Terpinene	3.02	1140.5	0.10	4.21	1014.8	0.11
meta-Cymene	4.17*	1229.3	[3.94]	4.30	1020.0	0.04
para-Cymene	4.17*	1229.3	[3.94]	4.34	1022.8	3.99
β-Phellandrene	3.35	1166.1	0.28	4.43*	1028.3	[10.47]
Limonene	3.27	1160.3	10.01	4.43*	1028.3	[10.47]
1,8-Cineole	3.36	1167.4	0.16	4.43*	1028.3	[10.47]
ortho-Cymene	4.57	1258.7	0.02	4.54	1035.4	0.02
(*Z*)-β-Ocimene	3.84	1204.9	0.07	4.62	1040.6	0.08
Unknown BOFR III [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...]	7.41*	1462.4	[0.03]	4.71	1046.2	0.03
(*E*)-β-Ocimene	4.05	1220.0	0.06	4.77	1050.3	0.06
γ-Terpinene	3.87	1206.9	0.35	4.89	1057.5	0.33
cis-Sabinene hydrate	6.96*	1429.4	[0.02]	5.00	1064.5	0.02
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.85	1279.3	0.03	5.06	1068.3	0.03
cis-Linalool oxide (fur.)	6.62	1404.3	0.02	5.09	1070.3	0.01
Octanol	8.25*	1525.9	[0.22]	5.16	1075.2	0.20
Unknown BODA VI [m/z 43, 94 (63), 109 (61), 59 (55), 79 (51)...152 (2)]	7.30*	1454.6	[0.03]	5.21	1077.9	0.03
Terpinolene	4.35	1242.1	0.08	5.34*	1086.6	[0.13]
para-Cymenene	6.39*	1387.3	[0.17]	5.34*	1086.6	[0.13]
α-Pinene oxide	5.46	1321.1	0.10	5.44	1092.5	0.10
6,7-Epoxymyrcene	6.12	1368.1	0.02	5.45	1093.4	0.02
trans-Sabinene hydrate	8.02	1508.5	0.01	5.48	1095.1	0.02
α-Thujone	6.14	1369.9	0.02	5.57*	1101.3	[0.25]
Linalool	8.12	1516.4	0.12	5.57*	1101.3	[0.25]
Unknown ORMA I	8.48*	1544.3	[3.55]	5.60	1103.4	0.02

[m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]						
Verbenol analog?	8.34	1532.7	0.08	5.69	1109.0	0.03
β-Thujone	6.39*	1387.3	[0.17]	5.74	1112.3	0.13
cis-para-Menth-2-en-1-ol	8.18	1520.8	0.02	5.83*	1117.9	[0.07]
trans-para-Mentha-2,8-dien-1-ol	9.00	1584.1	0.05	5.83*	1117.9	[0.07]
Myrcenol	8.93*	1579.0	[0.10]	5.89*	1122.1	[0.14]
α-Campholenal	7.07*	1437.3	[0.09]	5.89*	1122.1	[0.14]
cis-Limonene oxide	6.49	1394.8	0.03	6.03	1130.6	0.02
trans-Pinocarveol	9.23*	1602.4	[0.33]	6.07	1133.4	0.33
trans-Limonene oxide	6.65	1406.5	0.02	6.10	1135.1	0.02
trans-Sabinol	9.87	1654.0	0.13	6.14*	1138.0	[0.14]
cis-Verbenol	9.34*	1611.2	[0.52]	6.14*	1138.0	[0.14]
trans-Verbenol	9.59	1631.1	0.36	6.20	1141.9	0.32
meta-Mentha-4,6-dien-8-ol	9.39*	1615.4	[0.15]	6.25	1145.0	0.11
Unknown BOSE IV [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)]				6.35	1151.7	0.04
Sabinaketone	8.77	1566.1	0.05	6.39	1154.3	0.04
Pinocamphone	7.30*	1454.6	[0.03]	6.42	1156.4	0.04
Pinocarvone	7.97	1504.5	0.04	6.44	1157.4	0.02
Borneol	9.84*	1651.2	[0.56]	6.51	1162.3	0.02
α-Phellandren-8-ol	10.20	1680.1	0.20	6.55	1164.6	0.23
cis-Sabinol	10.92*	1740.4	[0.20]	6.59	1167.3	0.11
Umbellulone	8.93*	1579.0	[0.10]	6.61	1168.4	0.03
Terpinen-4-ol	8.63	1555.6	0.77	6.70	1174.2	0.76
Thuj-3-en-10-al	8.73*	1563.0	[0.11]	6.79	1180.1	0.08
Cryptone	9.23*	1602.4	[0.33]	6.83	1183.1	0.14
para-Cymen-8-ol	11.55	1794.3	0.02	6.88	1185.9	0.01
α-Terpineol	9.84*	1651.2	[0.56]	6.92	1188.5	0.42
Myrtenal	8.73*	1563.0	[0.11]	6.94	1189.8	0.09
Myrtenol	10.92*	1740.4	[0.20]	7.00	1193.8	0.17
cis-α-Phellandrene	11.08	1754.3	0.13	7.07	1198.3	0.13

epoxide (iPr vs Me)						
Verbenone	9.65*	1636.0	[0.44]	7.13	1202.5	0.26
trans-Piperitol	10.45*	1701.0	[0.39]	7.18	1205.7	0.03
trans-Carveol	11.45*	1785.3	[0.18]	7.36*	1217.7	[2.08]
Octyl acetate	7.15	1443.5	1.94	7.36*	1217.7	[2.08]
cis-Carveol	11.78	1814.7	0.05	7.53	1229.7	0.05
Cuminal	10.58	1712.0	0.05	7.61	1235.0	0.06
Carvone	10.05	1668.3	0.11	7.68	1239.9	0.11
Carvotanacetone	9.53	1626.1	0.03	7.73	1243.3	0.03
Piperitone	9.96	1660.7	0.03	7.82	1249.5	0.04
Linalyl acetate	8.21	1523.1	0.01	8.01	1262.3	0.01
3,5-Dimethoxytoluene	11.45*	1785.3	[0.18]	8.05	1265.0	0.04
Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]				8.12	1269.7	0.05
Decanol	10.81	1731.2	0.02	8.25	1279.1	0.02
Bornyl acetate	8.30	1530.0	0.19	8.35	1285.5	0.18
para-Cymen-7-ol	14.23	2038.8	0.03	8.42	1290.2	0.03
Thymol	15.17	2130.8	0.02	8.57	1300.9	0.03
Carvacrol	15.43	2157.0	0.03	8.65	1306.5	0.05
Bicycloelemene	7.10	1440.0	0.02	9.11	1335.7	0.02
Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.21	1342.9	0.01
α-Cubebene	6.85	1420.9	0.13	9.28*	1347.6	[0.16]
α-Terpinyl acetate	9.76	1644.6	0.03	9.28*	1347.6	[0.16]
Cyclosativene I	6.99	1431.5	0.01	9.44	1358.8	0.02
Cyclosativene II	7.02	1434.1	0.02	9.47	1361.3	0.02
α-Ylangene	7.07*	1437.3	[0.09]	9.54	1366.3	0.02
α-Copaene	7.21	1447.9	0.41	9.62	1372.2	0.40
β-Bourbonene	7.54	1472.5	0.09	9.73	1379.8	0.08
1,5-diepi-β-Bourbonene	7.41*	1462.4	[0.03]	9.77*	1382.6	[0.03]
Geranyl acetate	10.60	1713.4	0.02	9.77*	1382.6	[0.03]
β-Cubebene	7.84	1494.3	0.07	9.83	1387.1	0.06
β-Elemene	8.48*	1544.3	[3.55]	9.87	1389.6	0.47
Isocaryophyllene	8.25*	1525.9	[0.22]	10.03	1401.1	0.02
α-Gurjunene	7.67	1482.2	0.06	10.08	1404.5	0.05

β-Caryophyllene	8.48*	1544.3	[3.55]	10.20	1413.7	3.09
β-Copaene	8.42	1539.1	0.04	10.34	1424.0	0.04
trans-α-Bergamotene	8.48*	1544.3	[3.55]	10.48	1434.5	0.07
6,9-Guaiadiene	8.70	1560.8	0.03	10.56	1441.2	0.02
Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	8.80	1568.4	0.02	10.62*	1445.6	[0.04]
trans-Muurola-3,5-diene	8.93*	1579.0	[0.10]	10.62*	1445.6	[0.04]
α-Humulene	9.34*	1611.2	[0.52]	10.65	1447.3	0.40
allo-Aromadendrene	9.06	1588.5	0.12	10.74	1454.6	0.10
cis-Muurola-4(15),5-diene	9.39*	1615.4	[0.15]	10.78	1457.2	0.02
trans-Cadina-1(6),4-diene	9.34*	1611.2	[0.52]	10.95	1469.8	0.05
γ-Muurolene	9.65*	1636.0	[0.44]	10.99	1473.2	0.24
Germacrene D	9.84*	1651.2	[0.56]	11.02	1475.5	0.13
β-Selinene	9.92*	1658.1	[0.21]	11.08	1479.9	0.21
trans-Muurola-4(15),5-diene	9.92*	1658.1	[0.21]	11.11	1482.3	0.01
δ-Selinene	9.70	1640.5	0.06	11.15	1485.2	0.10
epi-Cubebol	12.04	1837.2	0.08	11.21*	1489.5	[0.29]
Bicyclogermacrene	10.14	1675.6	0.01	11.21*	1489.5	[0.29]
α-Selinene	10.00	1664.2	0.18	11.21*	1489.5	[0.29]
α-Muurolene	10.09	1671.6	0.14	11.31	1497.4	0.13
γ-Cadinene	10.45*	1701.0	[0.39]	11.47*	1509.5	[0.48]
Cubebol	12.60	1886.8	0.17	11.47*	1509.5	[0.48]
trans-Calamenene	11.28	1771.5	0.05	11.58	1518.3	0.06
δ-Cadinene	10.48	1703.3	0.62	11.61	1520.6	0.63
trans-Cadina-1,4-diene	10.72	1723.5	0.04	11.71	1528.1	0.03
α-Cadinene	10.84	1734.1	0.04	11.77	1533.3	0.03
α-Calacorene	12.17*	1849.2	[0.06]	11.82	1536.7	0.02
α-Elemol	14.09	2025.1	0.03	11.92*	1545.2	[0.06]
Isocaryophyllene epoxide B	12.17*	1849.2	[0.06]	11.92*	1545.2	[0.06]
Germacrene B	11.16	1761.4	0.03	11.96	1548.5	0.04
Elemicin	15.52*	2165.9	[0.04]	12.07	1557.0	0.02

Palustrol	12.33	1862.8	0.02	12.11	1559.9	0.02
Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]				12.16	1564.1	0.03
Germacrene D-4-ol	13.73	1990.5	0.06	12.24	1570.1	0.05
Caryophyllene oxide	12.82	1906.8	0.60	12.29*	1574.3	[0.66]
Caryophyllene oxide isomer	12.74	1899.7	0.04	12.29*	1574.3	[0.66]
Viridiflorol	14.04	2020.0	0.14	12.41	1583.7	0.14
Copaborneol	14.97	2110.9	0.08	12.57	1596.1	0.08
Humulene epoxide II	13.41	1961.5	0.12	12.62	1599.9	0.11
1,10-diepi-Cubenol	13.76	1993.2	0.05	12.72*	1608.1	[0.12]
Junenol	13.62	1980.9	0.02	12.72*	1608.1	[0.12]
1-epi-Cubenol	13.82	1999.3	0.06	12.88	1621.9	0.07
τ-Muurolol	15.10	2123.3	0.03	13.04*	1635.1	[0.41]
τ-Cadinol	14.94	2107.4	0.36	13.04*	1635.1	[0.41]
α-Muurolol	15.23	2136.6	0.05	13.12*	1641.2	[0.07]
β-Eudesmol	15.42	2155.1	0.17	13.12*	1641.2	[0.07]
α-Eudesmol	15.37	2151.0	0.01	13.17	1645.5	0.03
α-Cadinol	15.52*	2165.9	[0.04]	13.20	1648.4	0.03
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	16.86	2304.0	0.06	13.40	1664.7	0.06
Shyobunol	16.34	2249.9	0.01	13.56	1677.7	0.01
α-Phellandrene dimer II	12.52	1880.0	0.04	14.84	1788.7	0.04
α-Phellandrene dimer III	13.15	1937.5	0.01	15.03	1805.2	0.01
α-Phellandrene dimer IV	13.32	1953.4	0.01	15.25	1824.8	0.01
(3*E*)-Cembrene A	15.63	2176.5	0.09	16.61	1950.7	0.19
Cembrene C	16.30	2245.4	0.02	17.06	1993.9	0.05
Verticilla-4(20),7,11-triene	16.42	2258.0	0.06	17.10	1997.1	0.02
Cembrenol	20.14	2676.4	0.06	18.38	2124.8	0.06
Incensole	20.67	2742.7	0.20	18.49†	2136.7	0.17
Serratol	19.65	2618.8	0.31	18.51†	2138.9	0.33
Incensyl acetate	18.92	2533.2	0.08	18.77	2166.1	0.09
Total reported		98.32%			98.96%	

*: 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