Date : 2025-11-12

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 25J23-PTH03
Customer Identification : Pine - Romania - P70114R
Type : Essential Oil
Source : *Pinus sylvestris*
Customer : Plant Therapy

Checked an 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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 October 30, 2025 to make a correction in the sample identification section.

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia

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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 : Sylvain Mercier, M. Sc., Chimiste 2014-005
Date : 2025-10-29

Physicochemical data

Refractive index : 1.4733 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2025-10-27

Conclusion

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

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Analysis Summary - Consolidated Contents

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

Identification	%	Class
Toluene	tr	Simple phenolic
Santene	0.09	Normonoterpene
Bornylene	0.01	Monoterpene
Hashishene	0.01	Monoterpene
Tricyclene	0.16	Monoterpene
α-Thujene	0.05	Monoterpene
α-Pinene	50.01	Monoterpene
Camphene	1.44	Monoterpene
α-Fenchene	0.06	Monoterpene
Thuja-2,4(10)-diene	0.04	Monoterpene
Unknown	0.01	Monoterpene
Unknown	0.01	Unknown
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.03	Monoterpene
β-Pinene	12.20	Monoterpene
Sabinene	0.05	Monoterpene
Unknown	0.09	Monoterpene
Octan-3-one	0.01	Aliphatic ketone
Myrcene	2.85	Monoterpene
2,7-Dimethyl-2,6-octadiene	0.06	Monoterpene
2-Carene	0.02	Monoterpene
Octan-3-ol	0.01	Aliphatic alcohol
α-Phellandrene	0.07	Monoterpene
Pseudolimonene	0.24	Monoterpene
Δ3-Carene	10.18	Monoterpene
1,4-Cineole	0.14	Monoterpenic ether
α-Terpinene	0.13	Monoterpene
Carvomenthene	0.03	Aliphatic alcohol
para-Cymene	0.92	Monoterpene
Limonene	8.02	Monoterpene
β-Phellandrene	0.45	Monoterpene
ortho-Cymene	0.01	Monoterpene
(*Z*)-β-Ocimene	0.01	Monoterpene
(*E*)-β-Ocimene	0.01	Monoterpene
γ-Terpinene	0.07	Monoterpene
Unknown	0.02	Oxygenated monoterpene
Fenchone	0.02	Monoterpenic ketone
para-Cymenene	0.02	Monoterpene
Terpinolene	0.60	Monoterpene
α-Pinene oxide	0.09	Monoterpenic ether
Linalool	0.01	Monoterpenic alcohol

Verbenol analog?	0.08	Monoterpenic alcohol
endo-Fenchol	0.11	Monoterpenic alcohol
trans-para-Mentha-2,8-dien-1-ol	0.01	Monoterpenic alcohol
α-Campholenal	0.01	Monoterpenic aldehyde
Nopinone	0.02	Normonoterpenic ketone
trans-Pinocarveol	0.09	Monoterpenic alcohol
cis-para-Mentha-2,8-dien-1-ol	0.01	Monoterpenic alcohol
Camphor	0.02	Monoterpenic ketone
trans-Verbenol	0.09	Monoterpenic alcohol
Camphene hydrate	0.02	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.01	Monoterpenic alcohol
Isoborneol	0.01	Monoterpenic alcohol
Pinocamphone	0.02	Monoterpenic ketone
Pinocarvone	0.02	Monoterpenic ketone
Borneol	0.15	Monoterpenic alcohol
α-Phellandren-8-ol	0.02	Monoterpenic alcohol
Terpinen-4-ol	0.04	Monoterpenic alcohol
Unknown	0.03	Unknown
Cryptone	0.01	Normonoterpenic ketone
para-Cymen-8-ol	0.06	Monoterpenic alcohol
Myrtenal	0.05	Monoterpenic aldehyde
α-Terpineol	1.21	Monoterpenic alcohol
Myrtenol	0.07	Monoterpenic alcohol
Methylchavicol	0.04	Phenylpropanoid
cis-α-Phellandrene epoxide (iPr vs Me)	0.01	Monoterpenic ether
Verbenone	0.01	Monoterpenic ketone
Unknown	tr	Unknown
Unknown	0.06	Oxygenated monoterpene
trans-Carveol	0.03	Monoterpenic alcohol
cis-Carveol	0.01	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Thymol methyl ether	tr	Monoterpenic ether
Carvone	0.02	Monoterpenic ketone
(7*Z*)-Undecen-2-one	0.02	Aliphatic ketone
Bornyl acetate	1.28	Monoterpenic ester
Isobornyl acetate	0.02	Monoterpenic ester
Unknown	0.04	Oxygenated monoterpene
Unknown	0.05	Unknown
Carvacrol	0.01	Monoterpenic alcohol
Unknown	tr	Monoterpenic alcohol
Bicycloelemene	tr	Sesquiterpene
α-Longipinene	0.13	Sesquiterpene
α-Cubebene	0.04	Sesquiterpene
Unknown	0.01	Unknown
Longicyclene	0.06	Sesquiterpene

α-Ylangene	0.04	Sesquiterpene
α-Copaene	0.14	Sesquiterpene
β-Bourbonene	0.01	Sesquiterpene
β-Elemene	0.01	Sesquiterpene
Longifolene	1.26	Sesquiterpene
β-Caryophyllene	2.07	Sesquiterpene
β-Copaene	0.02	Sesquiterpene
cis-Muurola-3,5-diene	0.01	Sesquiterpene
α-Humulene	0.55	Sesquiterpene
trans-Cadina-1(6),4-diene	0.05	Sesquiterpene
γ-Muurolene	0.04	Sesquiterpene
Germacrene D	0.08	Sesquiterpene
β-Selinene	0.02	Sesquiterpene
trans-Muurola-4(15),5-diene	0.02	Sesquiterpene
α-Selinene	0.03	Sesquiterpene
β-Himachalene	0.02	Sesquiterpene
α-Muurolene	0.06	Sesquiterpene
Germacrene A	tr	Sesquiterpene
γ-Cadinene	0.04	Sesquiterpene
β-Bisabolene	0.03	Sesquiterpene
trans-Calamenene	0.07	Sesquiterpene
δ-Cadinene	0.29	Sesquiterpene
trans-Cadina-1,4-diene	0.03	Sesquiterpene
α-Cadinene	0.01	Sesquiterpene
α-Calacorene	0.02	Sesquiterpene
Dihydrocaryophyllen-5-one analog?	0.07	Sesquiterpenic ketone
Isocaryophyllene epoxide B	0.04	Sesquiterpenic ether
α-Elemol	tr	Sesquiterpenic alcohol
Dihydrocaryophyllen-5-one?	0.06	Sesquiterpenic ketone
Caryophyllenyl alcohol	0.08	Sesquiterpenic alcohol
(*E*)-Nerolidol	0.02	Sesquiterpenic alcohol
Spathulenol	0.01	Sesquiterpenic alcohol
Caryophyllene oxide	0.51	Sesquiterpenic ether
Caryophyllene oxide isomer	0.06	Sesquiterpenic ether
Unknown	0.01	Oxygenated sesquiterpene
Longiborneol	0.03	Sesquiterpenic alcohol
Humulene epoxide I	0.04	Sesquiterpenic ether
Humulol	0.04	Sesquiterpenic alcohol
Humulene epoxide II	0.12	Sesquiterpenic ether
1,10-diepi-Cubenol	0.03	Sesquiterpenic alcohol
Humulene 9,10-epoxide	0.02	Sesquiterpenic ether
1-epi-Cubenol	0.03	Sesquiterpenic alcohol
Humulenol II	0.06	Sesquiterpenic alcohol
Caryophylladienol II	0.10	Sesquiterpenic alcohol
τ-Muurolol	0.01	Sesquiterpenic alcohol

τ-Cadinol	0.01	Sesquiterpenic alcohol
β-Eudesmol	0.01	Sesquiterpenic alcohol
α-Muurolol	0.02	Sesquiterpenic alcohol
14-Hydroxy-(*Z*)-caryophyllene	0.17	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.07	Sesquiterpenic alcohol
α-Bisabolol	0.01	Sesquiterpenic alcohol
Sandaracopimaradiene?	0.01	Diterpene
meta-Camphorene	0.12	Diterpene
para-Camphorene	0.05	Diterpene
Isoabienol?	0.02	Diterpenic alcohol
(*Z*)-Abienol	0.01	Diterpenic alcohol
Sandaracopimarinal?	0.01	Diterpenic aldehyde
Isopimaral	0.01	Diterpenic aldehyde
Consolidated total	**99.06**	

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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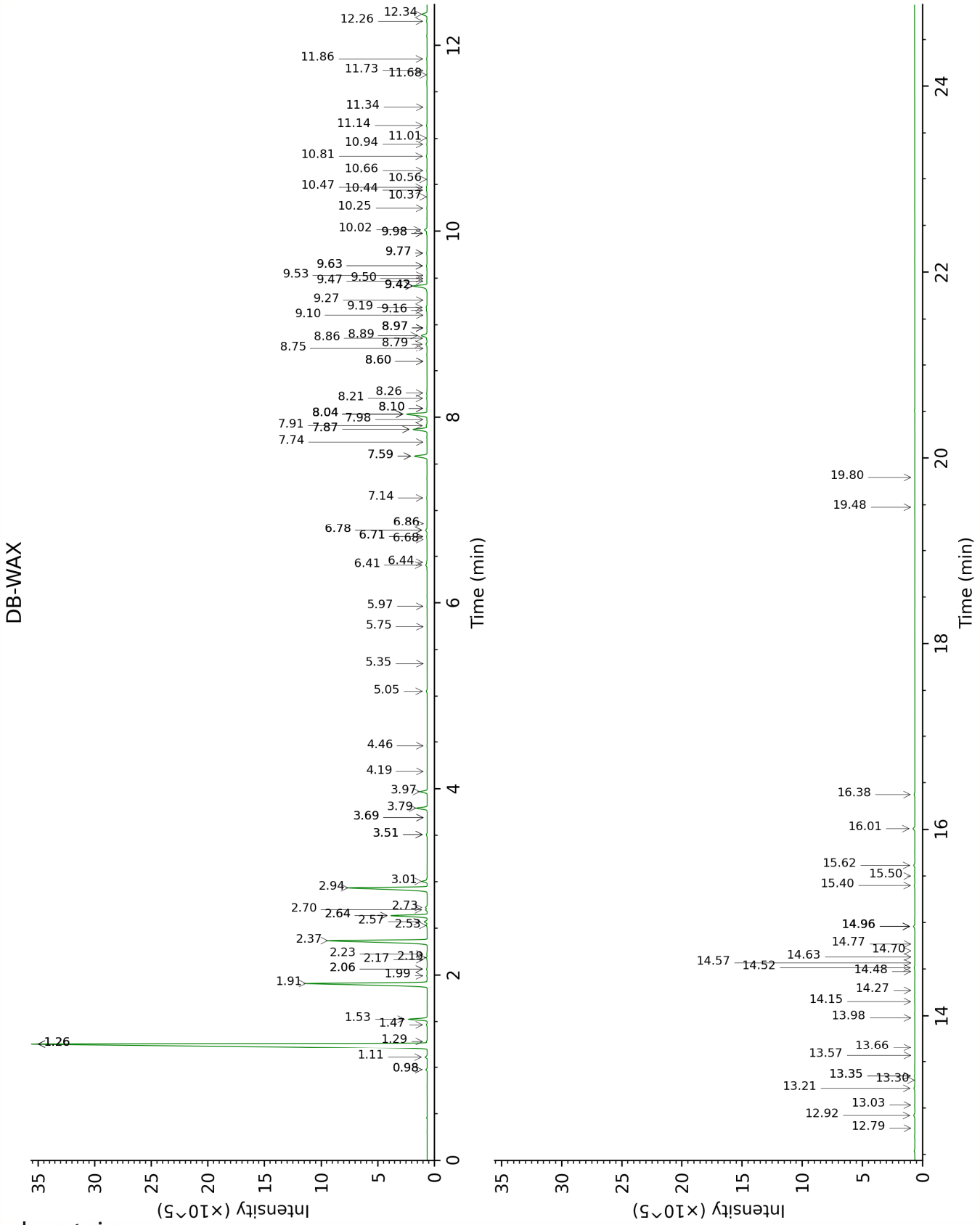
DB-WAX
Time (min)
Intensity (×10^5)
12.34
12.26
11.86
11.73
11.68
11.34
11.14
11.01
10.94
10.81
10.66
10.56
10.47
10.44
10.37
10.25
10.02
9.98
9.77
9.63
9.53
9.47
9.50
9.42
9.27
9.19
9.16
9.10
8.97
8.86
8.89
8.79
8.75
8.60
8.21
8.26
8.10
8.04
7.98
7.91
7.87
7.74
7.59
7.14
6.86
6.78
6.71
6.66
6.41
6.44
5.97
5.75
5.35
5.05
4.46
4.19
3.97
3.79
3.69
3.51
3.01
2.94
2.73
2.70
2.64
2.57
2.53
2.37
2.23
2.17
2.19
2.06
1.99
1.91
1.53
1.47
1.26
1.29
1.11
0.98
19.80
19.48
16.38
16.01
15.62
15.50
15.40
14.96
14.77
14.70
14.63
14.57
14.52
14.48
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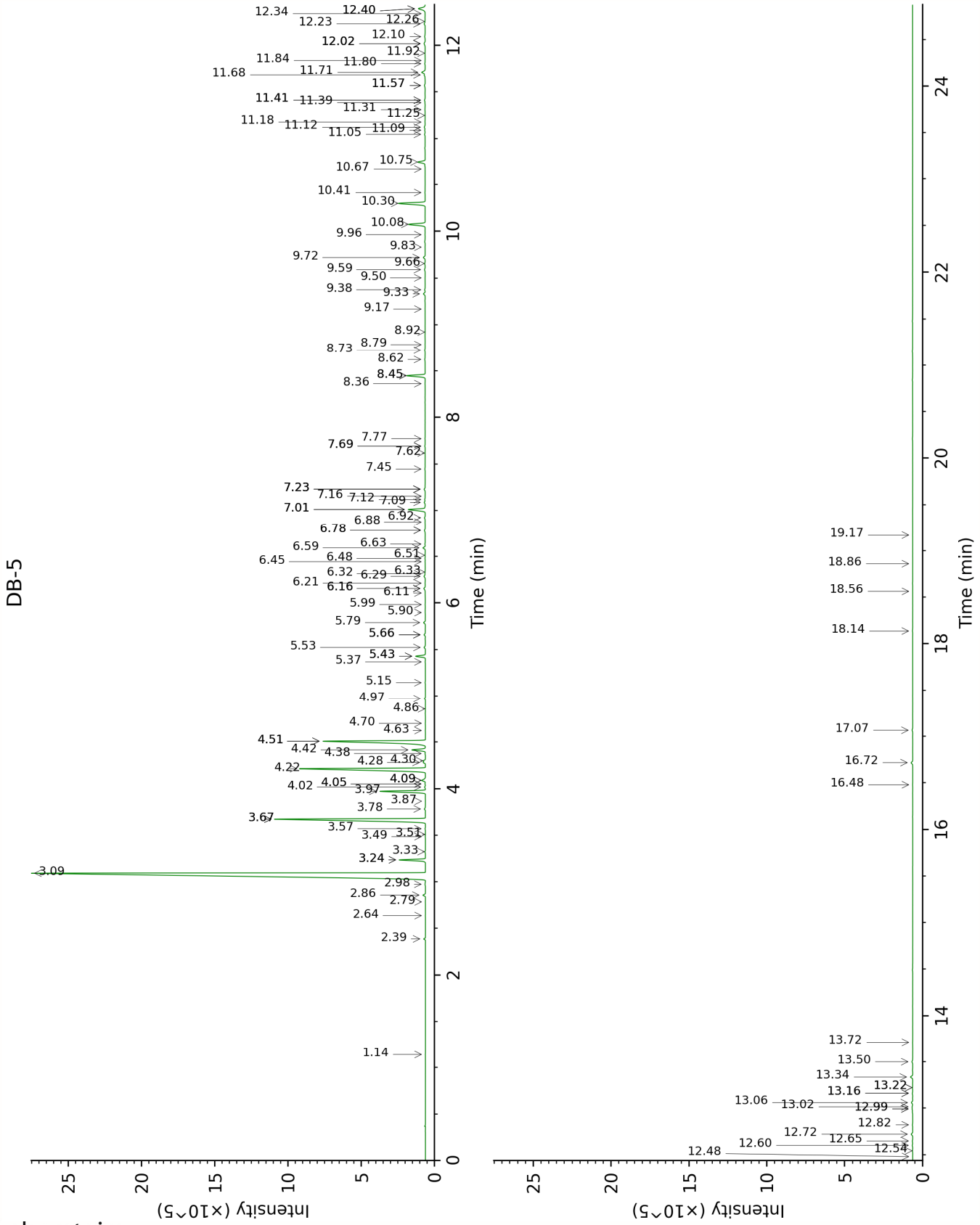
13.35
13.30
13.21
13.03
12.92
12.79


DB-5
Intensity (×10^5)
Time (min)
12.34
12.40
12.23
12.26
12.02
12.10
11.92
11.84
11.80
11.68
11.71
11.57
11.41
11.39
11.31
11.25
11.18
11.12
11.05
11.09
10.67
10.75
10.41
10.30
10.08
9.96
9.83
9.72
9.66
9.59
9.50
9.38
9.33
9.17
8.92
8.73
8.79
8.62
8.45
8.36
7.77
7.69
7.62
7.45
7.23
7.16
7.12
7.09
7.01
6.88
6.92
6.78
6.63
6.59
6.51
6.48
6.45
6.32
6.29
6.33
6.21
6.16
6.11
5.99
5.90
5.79
5.66
5.53
5.43
5.37
5.15
4.97
4.86
4.70
4.63
4.51
4.42
4.38
4.28
4.30
4.22
4.09
4.02
4.05
3.97
3.87
3.78
3.67
3.57
3.49
3.51
3.33
3.24
3.09
2.98
2.86
2.79
2.64
2.39
1.14
19.17
18.86
18.56
18.14
17.07
16.72
16.48
13.72
13.50
13.34
13.16
13.22
13.06
13.02
12.99
12.82
12.72
12.65
12.60
12.54
12.48

FULL ANALYSIS DATA

Toluene	Column DB-WAX			Column DB-5		
	1.26*	998.5	[50.08]	1.14	758.9	tr
Santene	0.98*	949.0	[0.10]	2.39	883.0	0.09
Bornylene	0.98*	949.0	[0.10]	2.64	904.1	0.01
Hashishene	1.26*	998.5	[50.08]	2.79	914.1	0.01
Tricyclene	1.11	972.4	0.16	2.86	918.9	0.16
α-Thujene	1.29	1003.3	0.05	2.98	926.7	0.05
α-Pinene	1.26*	998.5	[50.08]	3.09	934.6	50.01
Camphene	1.53	1028.6	1.44	3.24*	944.2	[1.49]
α-Fenchene	1.47	1022.3	0.06	3.24*	944.2	[1.49]
Thuja-2,4(10)-diene	2.06*	1084.2	[0.06]	3.32	950.1	0.04
Unknown BOSE VIII [m/z 121, 93 (86), 79 (71), 67 (62), 55 (49)... 136 (24)]				3.49	960.9	0.01
Unknown FRAG XCIV [m/z 93, 79 (62), 121 (37), 67 (35), 107 (34), 91 (33)...]				3.51	962.5	0.01
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.64*	1134.8	[2.86]	3.57	966.6	0.03
β-Pinene	1.91	1068.1	12.20	3.67*	973.5	[12.24]
Sabinene	2.06*	1084.2	[0.06]	3.67*	973.5	[12.24]
Unknown ORVU I [m/z 93, 79 (73), 67 (49), 95 (42), 91 (41), 121 (38)...]	2.19	1096.9	0.05	3.78	980.8	0.09
Octan-3-one	3.69*	1218.1	[0.01]	3.87	986.4	0.01
Myrcene	2.64*	1134.8	[2.86]	3.97	993.6	2.85
2,7-Dimethyl-2,6-octadiene	1.99	1076.7	0.04	4.02	996.6	0.06
2-Carene	2.17	1094.6	0.02	4.05*	998.9	[0.03]
Octan-3-ol	5.75	1368.0	0.01	4.05*	998.9	[0.03]
α-Phellandrene	2.53	1126.3	0.07	4.09*	1001.4	[0.31]
Pseudolimonene	2.57	1129.5	0.24	4.09*	1001.4	[0.31]
Δ3-Carene	2.37	1113.2	10.19	4.22	1009.5	10.18
1,4-Cineole	2.73	1141.8	0.14	4.28†	1013.8	0.13
α-Terpinene	2.70	1139.7	0.13	4.30†	1014.9	0.13
Carvomenthene	2.23	1100.8	0.05	4.38	1019.8	0.03
para-Cymene	3.79	1225.7	0.93	4.42	1022.3	0.92
Limonene	2.94	1158.6	8.02	4.51*	1028.2	[8.48]
β-Phellandrene	3.01	1164.2	0.45	4.51*	1028.2	[8.48]
ortho-Cymene	4.19	1254.9	0.01	4.63	1035.5	0.01
(*Z*)-β-Ocimene	3.51*	1204.7	[0.08]	4.70	1040.4	0.01

(*E*)-β-Ocimene	3.69*	1218.1	[0.01]	4.86	1050.3	0.01
γ-Terpinene	3.51*	1204.7	[0.08]	4.97	1057.5	0.07
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.46	1275.4	0.02	5.15	1068.6	0.02
Fenchone	5.35	1339.0	0.01	5.37	1082.8	0.02
para-Cymenene	5.97	1384.0	0.02	5.43*	1086.7	[0.63]
Terpinolene	3.97	1238.8	0.60	5.43*	1086.7	[0.63]
α-Pinene oxide	5.05	1317.2	0.09	5.52	1092.7	0.09
Linalool	7.74	1517.4	0.01	5.66*	1101.3	[0.09]
Verbenol analog?	7.91	1531.3	0.08	5.66*	1101.3	[0.09]
endo-Fenchol	8.04*	1541.1	[2.20]	5.79	1109.7	0.11
trans-para-Mentha-2,8-dien-1-ol	8.60*	1585.6	[0.02]	5.90	1116.7	0.01
α-Campholenal	6.68	1437.4	0.01	5.98	1122.3	0.01
Nopinone	7.87*	1528.2	[1.33]	6.11	1130.3	0.02
trans-Pinocarveol	8.79	1600.7	0.09	6.16*	1133.5	[0.13]
cis-para-Mentha-2,8-dien-1-ol	9.10	1626.0	0.01	6.16*	1133.5	[0.13]
Camphor	6.86*	1450.9	[0.02]	6.21	1137.2	0.02
trans-Verbenol	9.19	1632.9	0.09	6.29	1141.9	0.09
Camphene hydrate	8.10*	1545.9	[0.03]	6.32	1143.7	0.02
meta-Mentha-4,6-dien-8-ol	8.97*	1614.8	[0.03]	6.33	1145.0	0.01
Isoborneol	8.97*	1614.8	[0.03]	6.44	1152.2	0.01
Pinocamphone	6.86*	1450.9	[0.02]	6.48	1154.5	0.02
Pinocarvone	7.59*	1505.6	[1.29]	6.51	1156.7	0.02
Borneol	9.42*	1651.7	[1.46]	6.59	1161.9	0.15
α-Phellandren-8-ol	9.77*	1680.6	[0.05]	6.63	1164.5	0.02
Terpinen-4-ol	8.21	1554.4	0.04	6.78*	1174.2	[0.07]
Unknown SCTE II [m/z 109, 71 (66), 43 (55), 93 (55), 69 (43), 91 (43)...]				6.78*	1174.2	[0.07]
Cryptone	8.75	1597.2	0.01	6.88	1180.3	0.01
para-Cymen-8-ol	11.14	1797.6	0.06	6.92	1183.3	0.06
Myrtenal	8.26	1558.9	0.05	7.01*	1189.1	[1.26]
α-Terpineol	9.42*	1651.7	[1.46]	7.01*	1189.1	[1.26]
Myrtenol	10.47	1739.9	0.07	7.09	1194.1	0.07
Methylchavicol	8.97*	1614.8	[0.03]	7.12	1196.1	0.04
cis-α-Phellandrene epoxide (iPr vs Me)	10.66	1756.0	0.03	7.16	1198.4	0.01
Verbenone	9.26	1639.2	0.01	7.23*	1203.4	[0.08]
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79	10.56	1747.2	tr	7.23*	1203.4	[0.08]

(22), 91 (21), 105 (16)... 154 (2)]						
Unknown PINI IV [m/z 109, 91 (100), 81 (88), 94 (75), 119 (74), 96 (73), 41 (63)... 150 (2)]	10.44	1737.3	0.06	7.23*	1203.4	[0.08]
trans-Carveol	11.01	1785.9	0.03	7.45	1217.9	0.03
cis-Carveol	11.34	1814.8	0.02	7.62	1229.7	0.01
Unknown CIAU II [m/z 137, 152 (28), 43 (25), 91 (24), 109 (23), 119 (19)]	10.94	1780.2	0.03	7.69*	1234.7	[0.03]
Thymol methyl ether	8.10*	1545.9	[0.03]	7.69*	1234.7	[0.03]
Carvone	9.63*	1669.4	[0.07]	7.77	1240.2	0.02
(7*Z*)-Undecen-2-one				8.36	1280.6	0.02
Bornyl acetate	7.87*	1528.2	[1.33]	8.45*	1286.5	[1.30]
Isobornyl acetate	7.98	1536.5	0.02	8.45*	1286.5	[1.30]
Unknown MISC IX [m/z 43, 93 (66), 91 (44), 41 (38), 69 (35)... 152? (1)]				8.62	1298.5	0.04
Unknown PIPO I [m/z 69, 41 (79), 91 (59), 92 (55), 79 (52), 107 (40)...]				8.73	1305.5	0.05
Carvacrol	14.96*	2157.8	[0.14]	8.79	1305.9	0.01
Unknown MEAL I [m/z 97, 112 (92), 83 (62), 43 (44), 41 (25)... 170? (4)]	14.57	2118.0	0.01	8.92	1315.6	tr
Bicycloelemene	6.71*	1439.8	[0.05]	9.17	1333.1	tr
α-Longipinene	6.41	1416.8	0.13	9.33	1344.7	0.13
α-Cubebene	6.44	1419.0	0.04	9.38	1347.8	0.04
Unknown EUGL I [m/z 43, 95 (62), 107 (45), 110 (41), 55 (28), 67 (25)...]	13.57	2020.2	0.01	9.50	1356.9	0.01
Longicyclene	6.78*	1445.1	[0.13]	9.59	1363.2	0.06
α-Ylangene	6.71*	1439.8	[0.05]	9.66	1367.8	0.04
α-Copaene	6.78*	1445.1	[0.13]	9.72	1372.4	0.14
β-Bourbonene	7.14	1471.7	0.04	9.83	1380.3	0.01
β-Elemene	8.04*	1541.1	[2.20]	9.96	1389.8	0.01
Longifolene	7.59*	1505.6	[1.29]	10.08	1397.6	1.26
β-Caryophyllene	8.04*	1541.1	[2.20]	10.30	1414.0	2.07
β-Copaene	8.04*	1541.1	[2.20]	10.42	1422.7	0.02
cis-Muurola-3,5-diene	8.60*	1585.6	[0.02]	10.67	1442.1	0.01
α-Humulene	8.89	1608.1	0.59	10.75	1447.8	0.55
trans-Cadina-1(6),4-diene	8.86	1605.8	0.04	11.05	1470.0	0.05
γ-Muurolene	9.16	1630.3	0.07	11.09	1473.4	0.04

Germacrene D	9.42*	1651.7	[1.46]	11.12	1475.8	0.08
β-Selinene	9.50	1658.2	0.02	11.18	1479.9	0.02
trans-Muurola-4(15),5-diene	9.47	1655.9	0.03	11.25	1485.3	0.02
α-Selinene	9.53	1661.0	0.02	11.31	1489.9	0.03
β-Himachalene	9.42*	1651.7	[1.46]	11.39	1495.5	0.02
α-Muurolene	9.63*	1669.4	[0.07]	11.41*	1497.5	[0.06]
Germacrene A	9.98*	1698.0	[0.06]	11.41*	1497.5	[0.06]
γ-Cadinene	9.98*	1698.0	[0.06]	11.57*	1509.5	[0.07]
β-Bisabolene	9.77*	1680.6	[0.05]	11.57*	1509.5	[0.07]
trans-Calamenene	10.81	1769.2	0.08	11.68	1518.5	0.07
δ-Cadinene	10.02	1701.0	0.25	11.71	1520.7	0.29
trans-Cadina-1,4-diene	10.25	1720.7	0.04	11.80	1528.0	0.03
α-Cadinene	10.37	1731.1	0.01	11.84	1530.7	0.01
α-Calacorene	11.68	1845.9	0.01	11.92	1537.0	0.02
Dihydrocaryophyllen-5-one analog?				12.02*	1545.0	[0.11]
Isocaryophyllene epoxide B	11.73	1850.0	0.04	12.02*	1545.0	[0.11]
α-Elemol	13.66	2028.9	tr	12.02*	1545.0	[0.11]
Dihydrocaryophyllen-5-one?	11.86	1861.3	0.05	12.10	1551.0	0.06
Caryophyllenyl alcohol	13.21	1986.5	0.08	12.23	1561.9	0.08
(*E*)-Nerolidol	13.35*	1999.0	[0.04]	12.26	1563.9	0.02
Spathulenol	13.98	2060.1	0.01	12.34	1570.5	0.01
Caryophyllene oxide	12.34	1904.4	0.51	12.40*	1574.9	[0.66]
Caryophyllene oxide isomer	12.26	1897.7	0.06	12.40*	1574.9	[0.66]
Unknown CYSC XX [m/z 161, 159 (69), 91 (41), 187 (38), 105 (37), 146 (35), 131 (34)...]	14.52	2112.8	0.05	12.48	1581.4	0.01
Longiborneol	14.15	2077.2	0.03	12.54	1586.4	0.03
Humulene epoxide I	12.78	1946.4	0.01	12.60	1591.0	0.04
Humulol	14.27	2088.9	0.02	12.65	1594.7	0.04
Humulene epoxide II	12.92	1959.2	0.11	12.72	1600.5	0.12
1,10-diepi-Cubenol	13.30	1994.7	0.01	12.82	1608.5	0.03
Humulene 9,10-epoxide	13.03	1969.7	0.02	12.99*	1622.7	[0.05]
1-epi-Cubenol	13.35*	1999.0	[0.04]	12.99*	1622.7	[0.05]
Humulenol II	15.50	2212.8	0.04	13.02	1624.6	0.06
Caryophylladienol II	15.62	2224.7	0.11	13.06	1628.3	0.10
τ-Muurolol	14.63	2124.5	0.01	13.16*	1636.7	[0.03]
τ-Cadinol	14.48	2108.6	0.01	13.16*	1636.7	[0.03]
β-Eudesmol	14.96*	2157.8	[0.14]	13.22*	1641.8	[0.03]
α-Muurolol	14.77	2138.6	0.02	13.22*	1641.8	[0.03]

14-Hydroxy-(*Z*)-caryophyllene	16.01	2266.0	0.18	13.34	1651.3	0.17
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	16.38	2304.4	0.07	13.50	1664.9	0.07
α-Bisabolol	14.96*	2157.8	[0.14]	13.72	1682.7	0.01
Sandaracopimaradiene?	14.70	2131.1	0.01	16.48	1928.6	0.01
meta-Camphorene	14.96*	2157.8	[0.14]	16.72	1951.3	0.12
para-Camphorene	15.40	2202.3	0.06	17.07	1984.4	0.05
Isoabienol?	19.48	2657.1	0.02	18.14	2089.9	0.02
(*Z*)-Abienol				18.56	2133.2	0.01
Sandaracopimarinal?	19.80	2695.8	0.01	18.86	2163.9	0.01
Isopimaral				19.17	2195.7	0.01
Total reported		98.82%			99.19%	

*: 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