

Date : 2025-09-04

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 25H20-PTH08

Customer Identification : Juniper Berry - Bosnia - J20114R

Type : Essential Oil

Source : *Juniperus communis*

Customer : Plant Therapy

Checked and approved by:

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

Date : 2025-08-27

PHYSICOCHEMICAL DATA

Refractive index : 1.4775 ± 0.0003 (20 °C)

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

Analyst : Kassandra Baker

Date : 2025-08-21

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
Toluene	0.01	Simple phenolic
(4E)-2,6-Dimethyloctene	0.01	Monoterpene
Hashishene	0.01	Monoterpene
Tricyclene	0.12	Monoterpene
α -Thujene	0.28	Monoterpene
α -Pinene	43.61	Monoterpene
Camphene	0.32	Monoterpene
α -Fenchene	0.05	Monoterpene
Thuja-2,4(10)-diene	0.06	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.01	Monoterpene
Sabinene	8.07	Monoterpene
β -Pinene	6.94	Monoterpene
Unknown	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.03	Aliphatic ketone
Myrcene	10.51	Monoterpene
α -Phellandrene	0.03	Monoterpene
Menthatriene isomer I	0.02	Monoterpene
Δ^3 -Carene	0.22	Monoterpene
α -Terpinene	0.08	Monoterpene
<i>para</i> -Cymene	0.28	Monoterpene
Limonene	7.26	Monoterpene
β -Phellandrene	0.10	Monoterpene
(Z)- β -Ocimene	0.01	Monoterpene
(E)- β -Ocimene	0.01	Monoterpene
γ -Terpinene	0.62	Monoterpene
<i>cis</i> -Sabinene hydrate	0.02	Monoterpenic alcohol
<i>meta</i> -Cymenene	0.01	Monoterpene
<i>para</i> -Cymenene	0.06	Monoterpene
Terpinolene	0.66	Monoterpene
α -Pinene oxide	0.05	Monoterpenic ether
<i>trans</i> -Sabinene hydrate	0.01	Monoterpenic alcohol
Verbenol analog?	0.15	Monoterpenic alcohol
Nonanal	0.02	Aliphatic aldehyde
endo-Fenchol	0.01	Monoterpenic alcohol
<i>cis-para</i> -Menth-2-en-1-ol	0.05	Monoterpenic alcohol
α -Campholenal	0.04	Monoterpenic aldehyde
<i>cis</i> -Limonene oxide	0.01	Monoterpenic ether
<i>trans</i> -Pinocarveol	0.09	Monoterpenic alcohol
Camphor	0.04	Monoterpenic ketone
<i>trans</i> -Verbenol	0.08	Monoterpenic alcohol

<i>meta</i> -Mentha-4,6-dien-8-ol	0.03	Monoterpenic alcohol
Pinocamphone	0.01	Monoterpenic ketone
Pinocarvone	0.01	Monoterpenic ketone
Borneol	0.02	Monoterpenic alcohol
α -Phellandren-8-ol	0.02	Monoterpenic alcohol
Terpinen-4-ol	1.87	Monoterpenic alcohol
<i>para</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
Myrtenal	0.03	Monoterpenic aldehyde
α -Terpineol	0.52	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
Verbenone	0.03	Monoterpenic ketone
<i>trans</i> -Carveol	0.03	Monoterpenic alcohol
<i>cis</i> -Carveol	0.01	Monoterpenic alcohol
Citronellol	0.02	Monoterpenic alcohol
Methyl citronellate	0.03	Monoterpenic ester
<i>trans</i> -Ascaridole glycol	0.01	Monoterpenic alcohol
Decanol	0.02	Aliphatic alcohol
Bornyl acetate	0.16	Monoterpenic ester
2-Undecanone	0.03	Aliphatic ketone
Terpinyl acetate analog	0.01	Monoterpenic ester
Bicycloelemene	0.08	Sesquiterpene
α -Cubebene	0.04	Sesquiterpene
α -Terpinyl acetate	tr	Monoterpenic ester
α -Copaene	0.05	Sesquiterpene
β -Cubebene	0.03	Sesquiterpene
β -Elemene	0.15	Sesquiterpene
α -Cedrene	0.18	Sesquiterpene
α -Gurjunene	tr	Sesquiterpene
β -Funebrene	0.04	Sesquiterpene
β -Caryophyllene	3.12	Sesquiterpene
β -Copaene	0.07	Sesquiterpene
γ -Elemene	0.13	Sesquiterpene
<i>cis</i> -Muurolo-3,5-diene	0.12	Sesquiterpene
α -Humulene	2.18	Sesquiterpene
allo-Aromadendrene	0.02	Sesquiterpene
(<i>E</i>)- β -Farnesene	0.07	Sesquiterpene
β -Acoradiene	0.02	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.08	Sesquiterpene
γ -Muurolole	0.10	Sesquiterpene
Germacrene D	1.57	Sesquiterpene
β -Selinene	0.05	Sesquiterpene
γ -Amorphene	0.07	Sesquiterpene
α -Selinene	0.05	Sesquiterpene
Bicyclogermacrene	0.07	Sesquiterpene
α -Muurolole	0.15	Sesquiterpene

Cuparene	0.02	Sesquiterpene
β -Bisabolene	0.03	Sesquiterpene
γ -Cadinene	0.20	Sesquiterpene
Cubebol	0.03	Sesquiterpenic alcohol
δ -Cadinene	2.39	Sesquiterpene
Selina-4(15),7(11)-diene	0.03	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.04	Sesquiterpene
α -Cadinene	0.05	Sesquiterpene
α -Calacorene	0.06	Sesquiterpene
α -Elemol	0.23	Sesquiterpenic alcohol
Germacrene B	0.73	Sesquiterpene
Caryophyllenyl alcohol	0.04	Sesquiterpenic alcohol
Spathulenol	0.04	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Caryophyllene oxide	0.11	Sesquiterpenic ether
allo-Cedrol	0.10	Sesquiterpenic alcohol
Unknown	0.03	Oxygenated sesquiterpene
Humulene epoxide I	0.01	Sesquiterpenic ether
α -Cedrol	1.12	Sesquiterpenic alcohol
Humulene epoxide II	0.09	Sesquiterpenic ether
epi-Cedrol	0.06	Sesquiterpenic alcohol
1,10-diepi-Cubenol	0.04	Sesquiterpenic alcohol
1-epi-Cubenol	0.03	Sesquiterpenic alcohol
α -Acorenol	0.01	Sesquiterpenic alcohol
Alismol	0.06	Sesquiterpenic alcohol
β -Acorenol	0.03	Sesquiterpenic alcohol
allo-Aromadendrene epoxide?	0.04	Sesquiterpenic ether
τ -Muurolol	0.05	Sesquiterpenic alcohol
τ -Cadinol	0.04	Sesquiterpenic alcohol
α -Muurolol	0.03	Sesquiterpenic alcohol
β -Eudesmol	0.06	Sesquiterpenic alcohol
α -Eudesmol	0.08	Sesquiterpenic alcohol
α -Cadinol	0.07	Sesquiterpenic alcohol
Cedrenol analog	0.01	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	0.03	Sesquiterpenic alcohol
14-Hydroxy-(E)-caryophyllene	0.03	Sesquiterpenic alcohol
Germacra-4(15),5,10(14)-trien-1 α -ol	0.03	Sesquiterpenic alcohol
α -Bisabolol	0.03	Sesquiterpenic alcohol
Juniper camphor	0.01	Sesquiterpenic alcohol
Mayurone?	0.01	Norsesquiterpenic ketone
Germacra-4(15),5,10(14)-trien-1 β -ol?	0.02	Sesquiterpenic alcohol
Aromadendrane-4,10-diol	0.05	Sesquiterpenic alcohol
Cedryl acetate	0.03	Sesquiterpenic ester
Nootkatone	0.01	Sesquiterpenic ketone
Unknown	0.01	Oxygenated sesquiterpene

5-Ethenyl-1,5-bis(4-methyl-3-penten-1-yl)-cyclohexene?	0.03	Diterpene
Biformene?	0.01	Diterpene
<i>meta</i> -Camphorene	0.36	Diterpene
Trachylobane?	0.06	Diterpene
<i>para</i> -Camphorene	0.14	Diterpene
18-Norabieta-8,11,13-triene?	0.10	Norditerpene
<i>ar</i> -Abietatriene	0.07	Diterpene
7,13-Abietadiene	0.41	Diterpene
Sandaracopimarinal?	0.02	Diterpenic aldehyde
Larixol?	0.01	Diterpenic alcohol
4- <i>epi</i> -Abietal?	0.02	Diterpenic aldehyde
Conifer resinic acid VIII?	0.14	Diterpenic acid
Abieta-7,13-dien-3-one	0.02	Diterpenic ketone
Abietol	0.04	Diterpenic alcohol
Consolidated total	99.02	

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

Note: no correction factor was applied

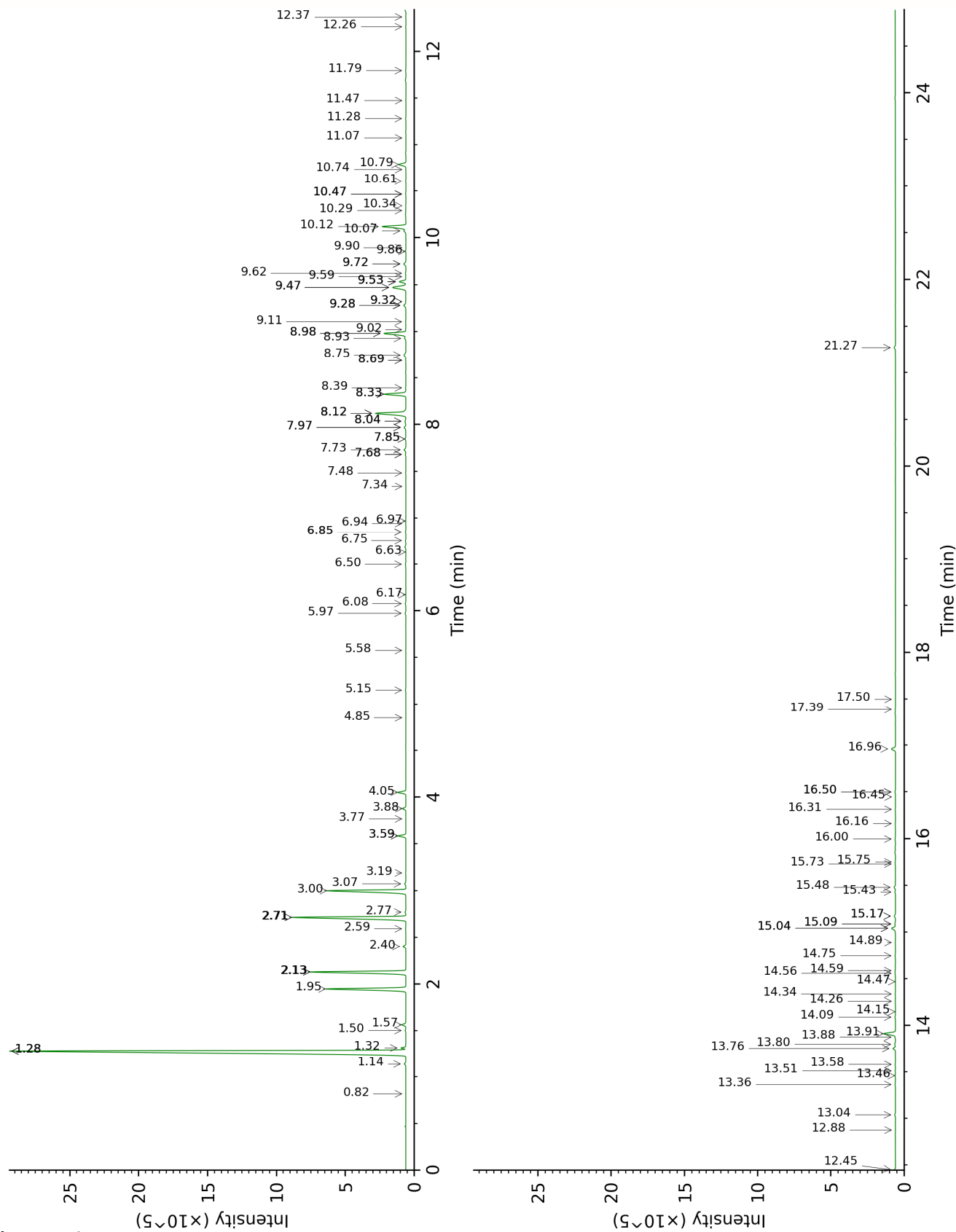
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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.

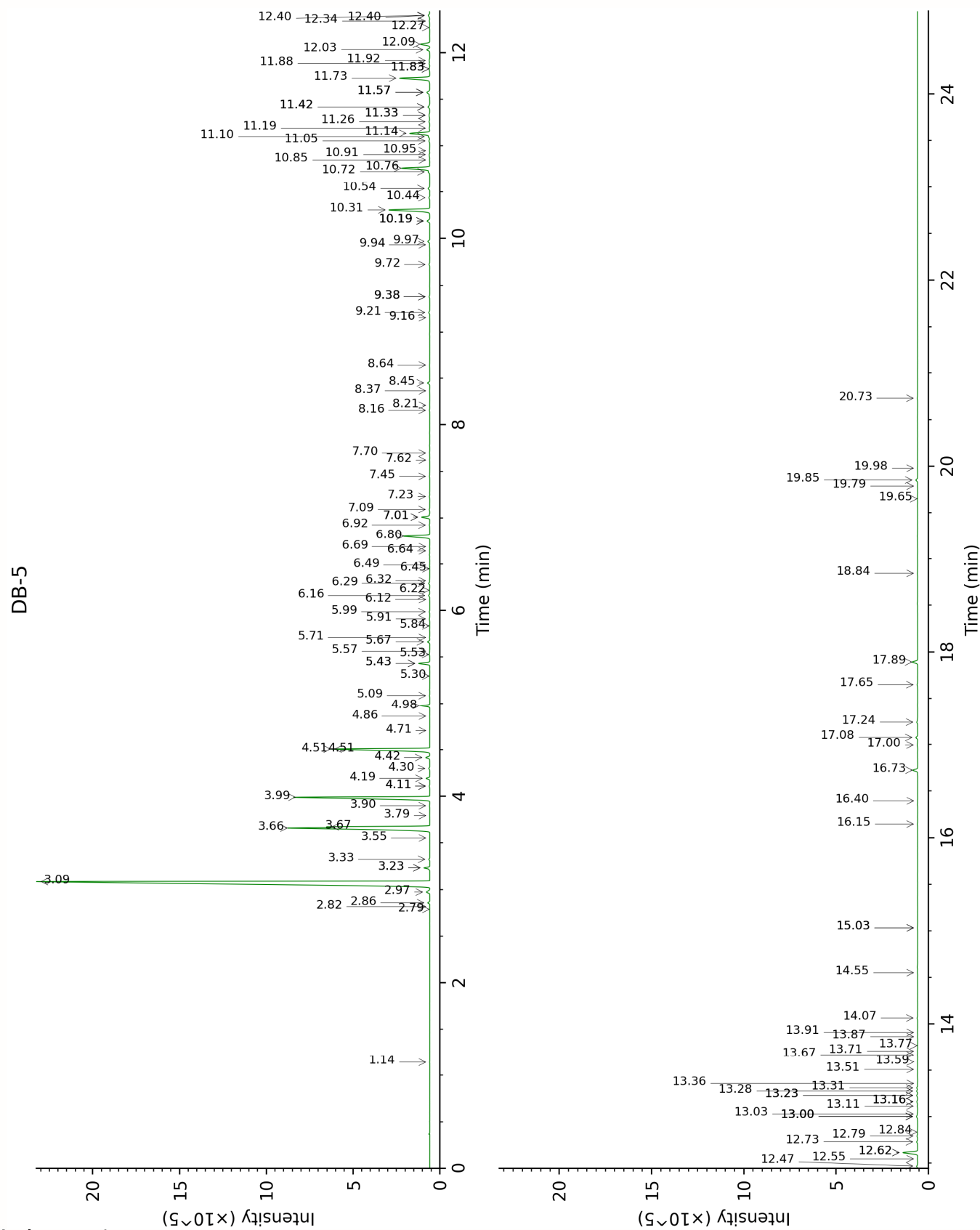
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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

Toluene	Column DB-WAX			Column DB-5		
	1.28*	995.7	[43.72]	1.14	757.2	0.01
(4E)-2,6-Dimethyloctene	0.82	912.1	tr	2.79	913.5	0.01
Hashishene	1.28*	995.7	[43.72]	2.82	915.4	0.01
Tricyclene	1.14	969.8	0.12	2.86	918.2	0.12
α -Thujene	1.32	1000.2	0.29	2.97	925.9	0.28
α -Pinene	1.28*	995.7	[43.72]	3.09	933.5	43.61
Camphene	1.57	1026.2	0.32	3.23*	943.3	[0.36]
α -Fenchene	1.50	1019.8	0.05	3.23*	943.3	[0.36]
Thuja-2,4(10)-diene	2.13*	1085.4	[8.10]	3.33	949.5	0.06
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.72*	1135.4	[10.51]	3.55	964.8	0.01
Sabinene	2.13*	1085.4	[8.10]	3.66*†	972.0	[11.58]
β -Pinene	1.95	1066.3	6.94	3.67*†	972.9	[3.42]
Unknown ORVU I [m/z 93, 79 (73), 67 (49), 95 (42), 91 (41), 121 (38)...]				3.79	981.0	0.01
6-Methyl-5-hepten-2-one	4.85	1297.1	0.01	3.90	988.1	0.03
Myrcene	2.72*	1135.4	[10.51]	3.99	994.2	10.51
α -Phellandrene	2.59	1125.5	0.03	4.11*	1002.2	[0.05]
Menthatriene isomer I	3.19	1173.5	0.02	4.11*	1002.2	[0.05]
Δ^3 -Carene	2.40	1110.3	0.21	4.19	1007.6	0.22
α -Terpinene	2.77	1139.9	0.07	4.30	1014.3	0.08
<i>para</i> -Cymene	3.88	1226.1	0.26	4.42	1021.8	0.28
Limonene	3.00	1158.2	7.26	4.51*	1027.5	[7.37]
β -Phellandrene	3.07	1164.1	0.10	4.51*	1027.5	[7.37]
(Z)- β -Ocimene	3.59*	1204.7	[0.62]	4.71	1040.1	0.01
(E)- β -Ocimene	3.77	1218.0	0.01	4.86	1050.0	0.01
γ -Terpinene	3.59*	1204.7	[0.62]	4.98	1057.2	0.62
<i>cis</i> -Sabinene hydrate	6.63	1427.5	0.01	5.09	1064.3	0.02
<i>meta</i> -Cymenene	5.98	1379.2	0.07	5.30	1077.6	0.01
<i>para</i> -Cymenene	6.08	1386.7	0.06	5.43*	1086.3	[0.72]
Terpinolene	4.05	1238.8	0.66	5.43*	1086.3	[0.72]
α -Pinene oxide	5.15	1319.7	0.04	5.53	1092.3	0.05
<i>trans</i> -Sabinene hydrate	7.68*	1506.3	[0.05]	5.57	1094.6	0.01
Verbenol analog?	8.04*	1533.9	[0.12]	5.67	1101.0	0.15
Nonanal	5.58	1350.5	0.02	5.71	1103.9	0.02
endo-Fenchol	8.12*	1540.5	[3.23]	5.84	1111.9	0.01

<i>cis</i> -para-Menth-2-en-1-ol	7.85*	1519.1	[0.08]	5.91	1116.8	0.05
α -Campholenal	6.75	1436.7	0.04	5.99	1121.7	0.04
<i>cis</i> -Limonene oxide	6.17	1393.6	0.01	6.12	1130.3	0.01
<i>trans</i> -Pinocarveol	8.93	1603.7	0.13	6.16	1133.0	0.09
Camphor	6.94	1450.8	0.02	6.22	1136.7	0.04
<i>trans</i> -Verbenol	9.28*	1632.4	[0.23]	6.29	1141.5	0.08
<i>meta</i> -Mentha-4,6-dien-8-ol	9.02	1611.3	0.03	6.32	1143.2	0.03
Pinocamphone	6.97	1452.8	0.01	6.45	1151.6	0.01
Pinocarvone	7.68*	1506.3	[0.05]	6.49	1154.1	0.01
Borneol	9.53*	1652.9	[0.59]	6.64	1164.1	0.02
α -Phellandren-8-ol	9.90	1682.4	0.01	6.69	1167.0	0.02
Terpinen-4-ol	8.33*	1556.5	[1.93]	6.80	1174.4	1.87
<i>para</i> -Cymen-8-ol	11.28	1799.9	0.04	6.92	1182.3	0.04
Myrtenal	8.39	1561.7	0.03	7.01*	1187.9	[0.55]
α -Terpineol	9.53*	1652.9	[0.59]	7.01*	1187.9	[0.55]
Myrtenol	10.61	1742.4	0.04	7.09	1193.2	0.03
Verbenone	9.32*	1635.6	[0.03]	7.23	1202.2	0.03
<i>trans</i> -Carveol	11.07	1782.1	0.02	7.45	1216.7	0.03
<i>cis</i> -Carveol	11.47	1817.1	0.02	7.62	1228.6	0.01
Citronellol	10.47*	1730.4	[0.05]	7.70	1233.6	0.02
Methyl citronellate	7.97*	1528.8	[0.17]	8.16	1264.7	0.03
<i>trans</i> -Ascaridole glycol	13.88	2038.7	0.02	8.21	1268.3	0.01
Decanol	10.47*	1730.4	[0.05]	8.37	1278.9	0.02
Bornyl acetate	7.97*	1528.8	[0.17]	8.45	1284.6	0.16
2-Undecanone	8.33*	1556.5	[1.93]	8.64	1297.6	0.03
Terpinyl acetate analog	9.32*	1635.6	[0.03]	9.16	1330.6	0.01
Bicycloelemene	6.85*	1443.7	[0.05]	9.21	1334.5	0.08
α -Cubebene	6.50	1417.8	0.04	9.38*	1346.5	[0.05]
α -Terpinyl acetate	9.47*	1647.9	[1.59]	9.38*	1346.5	[0.05]
α -Copaene	6.85*	1443.7	[0.05]	9.72	1371.0	0.05
β -Cubebene	7.48	1491.2	0.03	9.94	1386.0	0.03
β -Elemene	8.12*	1540.5	[3.23]	9.97	1388.7	0.15
α -Cedrene	7.73	1510.1	0.18	10.19*	1404.2	[0.22]
α -Gurjunene	7.34	1480.4	tr	10.19*	1404.2	[0.22]
β -Funebrene	7.85*	1519.1	[0.08]	10.19*	1404.2	[0.22]
β -Caryophyllene	8.12*	1540.5	[3.23]	10.31	1413.0	3.12
β -Copaene	8.04*	1533.9	[0.12]	10.44	1422.9	0.07
γ -Elemene	8.75	1589.5	0.23	10.54	1430.3	0.13
<i>cis</i> -Muurolo-3,5-diene	8.69*	1584.8	[0.03]	10.72	1444.1	0.12
α -Humulene	8.98*	1608.1	[2.20]	10.76	1447.1	2.18

allo-Aromadendrene	8.69*	1584.8	[0.03]	10.85	1453.7	0.02
(E)- β -Farnesene	9.28*	1632.4	[0.23]	10.91	1458.1	0.07
β -Acoradiene	9.11	1618.1	0.04	10.95	1461.1	0.02
<i>trans</i> -Cadina-1(6),4-diene	8.98*	1608.1	[2.20]	11.05	1469.1	0.08
γ -Muurolene	9.28*	1632.4	[0.23]	11.10	1472.6	0.10
Germacrene D	9.47*	1647.9	[1.59]	11.14	1475.2	1.57
β -Selinene	9.59	1657.3	0.03	11.19	1479.3	0.05
γ -Amorphene	9.53*	1652.9	[0.59]	11.26	1484.5	0.07
α -Selinene	9.62	1660.2	0.05	11.33*	1489.7	[0.12]
Bicyclogermacrene	9.72*	1668.3	[0.21]	11.33*	1489.7	[0.12]
α -Muurolene	9.72*	1668.3	[0.21]	11.42*	1496.4	[0.17]
Cuparene	10.74	1753.3	0.02	11.42*	1496.4	[0.17]
β -Bisabolene	9.86	1679.2	0.03	11.58*	1508.3	[0.28]
γ -Cadinene	10.08	1697.0	0.20	11.58*	1508.3	[0.28]
Cubebol	12.26	1887.4	0.03	11.58*	1508.3	[0.28]
δ -Cadinene	10.12	1700.9	2.34	11.73	1520.4	2.39
Selina-4(15),7(11)-diene	10.29	1715.4	0.03	11.83*	1528.2	[0.08]
<i>trans</i> -Cadina-1,4-diene	10.34	1719.8	0.04	11.83*	1528.2	[0.08]
α -Cadinene	10.47*	1730.4	[0.05]	11.88	1532.7	0.05
α -Calacorene	11.80	1845.6	0.04	11.92	1535.3	0.06
α -Elemol	13.76	2026.9	0.22	12.03	1544.5	0.23
Germacrene B	10.79	1757.9	0.71	12.09	1549.2	0.73
Caryophyllenyl alcohol	13.36	1989.2	0.04	12.27	1563.3	0.04
Spathulenol	14.09	2059.4	0.05	12.34	1568.7	0.04
Caryophyllene oxide isomer	12.37	1896.8	0.02	12.40*	1573.7	[0.14]
Caryophyllene oxide	12.45	1903.9	0.11	12.40*	1573.7	[0.14]
allo-Cedrol	13.80	2031.3	0.08	12.47	1578.9	0.10
Unknown ARAN XX [m/z 159, 83 (88), 55 (53), 93 (50), 121 (48)... 220 (9)]				12.55	1585.2	0.03
Humulene epoxide I	12.88	1943.8	0.01	12.62*	1590.5	[1.11]
α -Cedrol	13.92	2042.3	1.12	12.62*	1590.5	[1.11]
Humulene epoxide II	13.04	1959.0	0.07	12.73	1599.6	0.09
epi-Cedrol	14.47	2096.1	0.01	12.79	1604.6	0.06
1,10-diepi-Cubenol	13.46	1998.2	0.04	12.84	1608.1	0.04
1-epi-Cubenol	13.51	2003.1	0.03	13.00*	1622.0	[0.13]
α -Acorenol	14.15	2065.0	0.01	13.00*	1622.0	[0.13]
Alismol	15.43	2192.9	0.06	13.00*	1622.0	[0.13]
β -Acorenol	14.56	2105.2	0.05	13.03	1624.2	0.03

allo-Aromadendrene epoxide?	13.58	2009.8	0.04	13.11	1631.3	0.04
τ -Muurolol	14.75	2124.1	0.05	13.16*	1635.2	[0.09]
τ -Cadinol	14.59	2108.1	0.04	13.16*	1635.2	[0.09]
α -Muurolol	14.89	2138.4	0.03	13.23*	1640.8	[0.09]
β -Eudesmol	15.09*	2158.4	[0.08]	13.23*	1640.8	[0.09]
α -Eudesmol	15.04*	2153.8	[0.41]	13.28	1644.7	0.08
α -Cadinol	15.17*	2166.9	[0.12]	13.31	1647.6	0.07
Cedrenol analog	16.16	2269.2	0.05	13.36	1651.5	0.01
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	16.50*	2304.7	[0.06]	13.51	1664.1	0.03
14-Hydroxy-(E)-caryophyllene	16.45	2299.0	0.01	13.59	1670.8	0.03
Germacra-4(15),5,10(14)-trien-1 α -ol	15.75	2226.3	0.03	13.67	1677.4	0.03
α -Bisabolol	15.09*	2158.4	[0.08]	13.71	1680.7	0.03
Juniper camphor	15.73	2224.0	0.04	13.77	1685.9	0.01
Mayurone?				13.87	1693.8	0.01
Germacra-4(15),5,10(14)-trien-1 β -ol?	16.31	2285.0	0.02	13.91	1697.6	0.02
Aromadendrane-4,10-diol	16.50*	2304.7	[0.06]	14.07	1710.8	0.05
Cedryl acetate	14.26	2075.9	0.03	14.55	1753.1	0.03
Nootkatone	17.50	2413.5	0.01	15.03*	1794.9	[0.02]
Unknown JUVI XXIV [m/z 121, 136 (53), 91 (22), 93 (19), 79 (15), 105 (13)... 220 (3)]				15.03*	1794.9	[0.02]
5-Ethenyl-1,5-bis(4-methyl-3-penten-1-yl)-cyclohexene?	14.34	2083.4	0.03	16.15	1895.9	0.03
Biformene?	15.17*	2166.9	[0.12]	16.40	1919.3	0.01
<i>meta</i> -Camphorene	15.04*	2153.8	[0.41]	16.73	1950.7	0.36
Trachylobane?	16.00	2251.9	0.06	17.00	1976.4	0.06
<i>para</i> -Camphorene	15.48	2198.0	0.14	17.08	1984.1	0.14
18-Norabieta-8,11,13-triene?				17.24	1999.9	0.10
<i>ar</i> -Abietatriene	17.38	2400.8	0.03	17.65	2040.2	0.07
7,13-Abietadiene	16.96	2354.6	0.42	17.89	2064.4	0.41
Sandaracopimarinal?				18.84	2161.1	0.02
Larixol?				19.65	2246.2	0.01
4-epi-Abietal?	21.28	2867.8	0.14	19.79	2260.8	0.02
Conifer resinic acid				19.85	2267.8	0.14

VIII?				
Abieta-7,13-dien-3-one		19.98	2281.5	0.02
Abietol		20.73	2364.4	0.04
Total reported	98.26%		99.08%	

*: 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