Date : 2025-06-02

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 25E16-PTH02
Customer Identification : Black Pepper - India - B40112R
Type : Essential Oil
Source : *Piper nigrum*
Customer : Plant Therapy

Checked an approved by:

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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

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 : Anne Retaillaud
Date : 2025-05-30

Physicochemical data

Refractive index : 1.4828 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2025-05-16

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
Tricyclene	0.02	Monoterpene
α-Thujene	0.75	Monoterpene
α-Pinene	10.16	Monoterpene
α-Fenchene	0.01	Monoterpene
Camphene	0.22	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.01	Monoterpene
Sabinene	9.14	Monoterpene
β-Pinene	13.42	Monoterpene
Dehydro-1,8-cineole	0.01	Monoterpenic ether
Myrcene	1.22	Monoterpene
2-Carene	0.03	Monoterpene
α-Phellandrene	1.59	Monoterpene
Pseudolimonene	0.03	Monoterpene
Δ3-Carene	6.59	Monoterpene
α-Terpinene	0.10	Monoterpene
Carvomenthene	0.02	Aliphatic alcohol
meta-Cymene	0.03	Monoterpene
para-Cymene	1.21	Monoterpene
β-Phellandrene	[1.24]	Monoterpene
Limonene	13.65	Monoterpene
1,8-Cineole	[1.24]	Monoterpenic ether
(*Z*)-β-Ocimene	0.02	Monoterpene
(*E*)-β-Ocimene	0.13	Monoterpene
γ-Terpinene	0.12	Monoterpene
cis-Sabinene hydrate	0.09	Monoterpenic alcohol
Isoterpinolene	0.05	Monoterpene
Terpinolene	0.23	Monoterpene
α-Pinene oxide	0.03	Monoterpenic ether
trans-Sabinene hydrate	0.06	Monoterpenic alcohol
Linalool	0.27	Monoterpenic alcohol
trans-para-Mentha-2,8-dien-1-ol	0.02	Monoterpenic alcohol
cis-para-Menth-2-en-1-ol	0.02	Monoterpenic alcohol
cis-Limonene oxide	0.02	Monoterpenic ether
cis-para-Mentha-2,8-dien-1-ol	0.06	Monoterpenic alcohol
trans-Limonene oxide	0.01	Monoterpenic ether
trans-para-Menth-2-en-1-ol	0.02	Monoterpenic alcohol
trans-Verbenol	0.02	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.01	Monoterpenic alcohol

Sabinaketone	0.01	Normonoterpenic ketone
Pinocarvone	0.02	Monoterpenic ketone
cis-Sabinol	0.01	Monoterpenic alcohol
Terpinen-4-ol	0.24	Monoterpenic alcohol
trans-2-Caren-4-ol	0.02	Monoterpenic alcohol
meta-Cymen-8-ol	0.03	Monoterpenic alcohol
Cryptone	0.03	Normonoterpenic ketone
para-Cymen-8-ol	0.01	Monoterpenic alcohol
α-Terpineol	0.07	Monoterpenic alcohol
Myrtenal	0.01	Monoterpenic aldehyde
Myrtenol	0.04	Monoterpenic alcohol
cis-α-Phellandrene epoxide (iPr vs Me)	0.02	Monoterpenic ether
Verbenone	0.04	Monoterpenic ketone
Car-2-en-4-one?	0.01	Monoterpenic ketone
trans-Carveol	0.02	Monoterpenic alcohol
cis-Carveol	0.02	Monoterpenic alcohol
Cuminal	0.02	Monoterpenic aldehyde
Carvone	0.01	Monoterpenic ketone
Car-3-en-2-one	0.01	Monoterpenic ketone
Unknown	0.02	Unknown
trans-Ascaridole glycol	0.01	Monoterpenic alcohol
Cuminol	0.01	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
Car-3-en-5-one	0.01	Monoterpenic ketone
para-Menth-5-en-1,2-diol isomer II	0.03	Monoterpenic alcohol
para-Menth-5-en-1,2-diol isomer III	0.04	Monoterpenic alcohol
Methyl geranate	0.01	Monoterpenic ester
δ-Elemene isomer	0.02	Sesquiterpene
Bicycloelemene	0.02	Sesquiterpene
δ-Elemene	1.39	Sesquiterpene
α-Cubebene	0.26	Sesquiterpene
Eugenol	0.02	Phenylpropanoid
Cyclosativene I	0.09	Sesquiterpene
Cyclosativene II	0.02	Sesquiterpene
α-Ylangene	0.01	Sesquiterpene
α-Copaene	3.49	Sesquiterpene
cis-β-Elemene	0.02	Sesquiterpene
β-Cubebene	0.34	Sesquiterpene
β-Elemene	0.29	Sesquiterpene
Isocaryophyllene	0.03	Sesquiterpene
α-Gurjunene	0.09	Sesquiterpene
cis-α-Bergamotene	0.03	Sesquiterpene
β-Caryophyllene	23.60	Sesquiterpene
β-Copaene	0.16	Sesquiterpene
α-Guaiene	[0.04]	Sesquiterpene

trans-α-Bergamotene	[0.04]	Sesquiterpene
trans-Muurola-3,5-diene	0.03	Sesquiterpene
α-Humulene	0.89	Sesquiterpene
allo-Aromadendrene	0.02	Sesquiterpene
(*E*)-β-Farnesene	0.16	Sesquiterpene
β-Santalene	0.01	Sesquiterpene
γ-Gurjunene	0.02	Sesquiterpene
trans-Cadina-1(6),4-diene	0.03	Sesquiterpene
γ-Muurolene	[0.10]	Sesquiterpene
α-Amorphene	[0.10]	Sesquiterpene
Germacrene D	0.27	Sesquiterpene
ar-Curcumene	0.06	Sesquiterpene
β-Selinene	0.24	Sesquiterpene
α-Selinene	0.16	Sesquiterpene
epi-Cubebol	0.10	Sesquiterpenic alcohol
Bicyclogermacrene	0.04	Sesquiterpene
Viridiflorene	0.03	Sesquiterpene
α-Muurolene	0.40	Sesquiterpene
Cubebol	0.16	Sesquiterpenic alcohol
γ-Cadinene	0.06	Sesquiterpene
β-Bisabolene	2.09	Sesquiterpene
7-epi-α-Selinene	0.14	Sesquiterpene
trans-Calamenene	0.10	Sesquiterpene
δ-Cadinene	1.01	Sesquiterpene
(*E*)-γ-Bisabolene	0.04	Sesquiterpene
α-Calacorene	0.02	Sesquiterpene
(*E*)-α-Bisabolene	0.05	Sesquiterpene
Isocaryophyllene epoxide B	0.04	Sesquiterpenic ether
α-Elemol	0.02	Sesquiterpenic alcohol
Germacrene B	0.04	Sesquiterpene
(*E*)-Nerolidol	0.04	Sesquiterpenic alcohol
Spathulenol	0.10	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.20	Sesquiterpenic ether
Caryophyllene oxide	0.80	Sesquiterpenic ether
Unknown	0.01	Oxygenated sesquiterpene
Humulene epoxide I	0.01	Sesquiterpenic ether
Ledol	0.03	Sesquiterpenic alcohol
Humulene epoxide II	0.05	Sesquiterpenic ether
α-Corocalene	0.02	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Alismol	0.20	Sesquiterpenic alcohol
Caryophylladienol II	0.04	Sesquiterpenic alcohol
Isospathulenol	0.02	Sesquiterpenic alcohol
τ-Cadinol	0.01	Sesquiterpenic alcohol
τ-Muurolol	0.03	Sesquiterpenic alcohol

α-Muurolol	0.13	Sesquiterpenic alcohol
cis-Calamenen-10-ol	0.01	Sesquiterpenic alcohol
trans-Calamenen-10-ol	0.02	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.01	Sesquiterpenic alcohol
Phytone	0.01	Terpenic ketone
meta-Camphorene	0.01	Diterpene
Consolidated total	**99.44**	

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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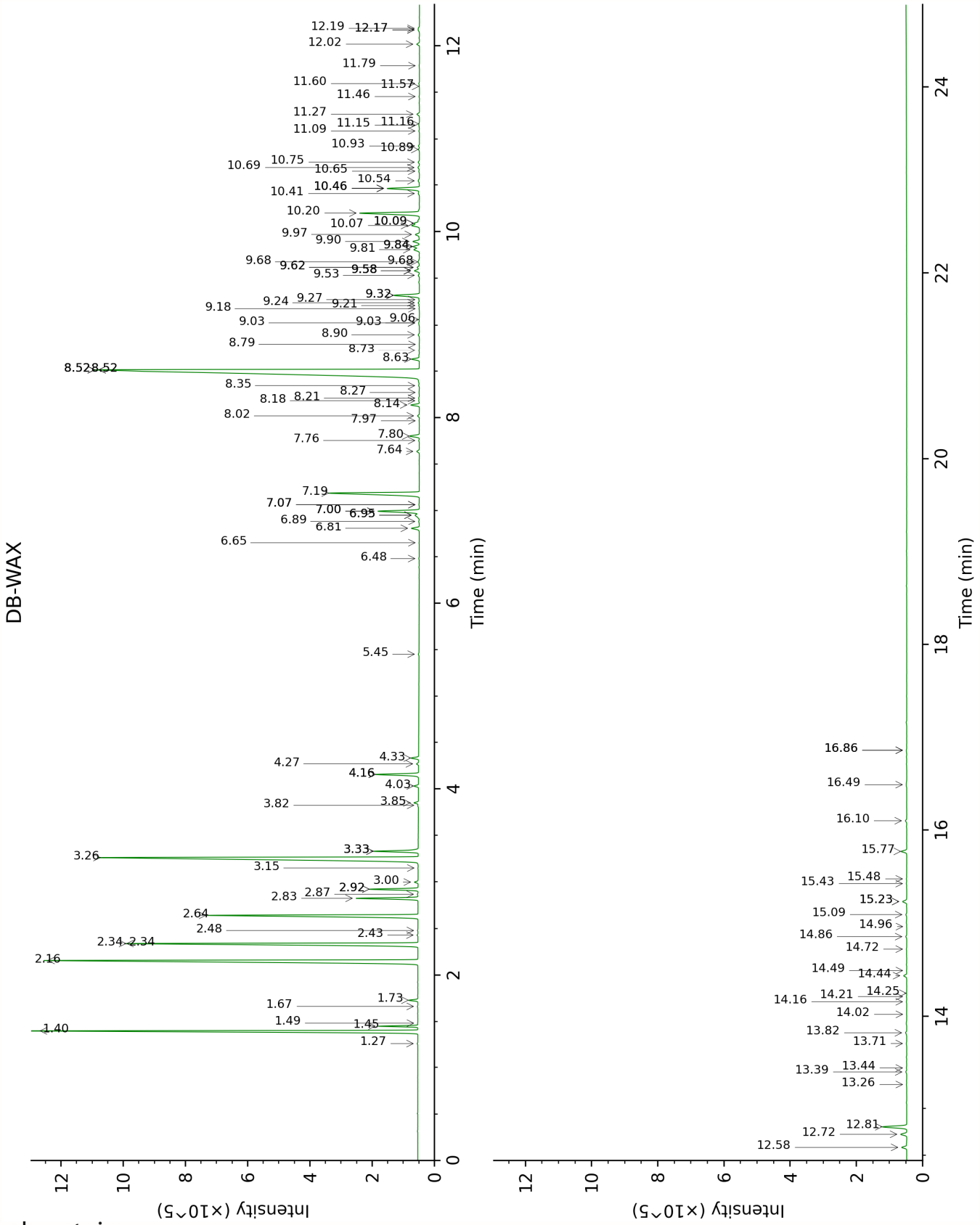
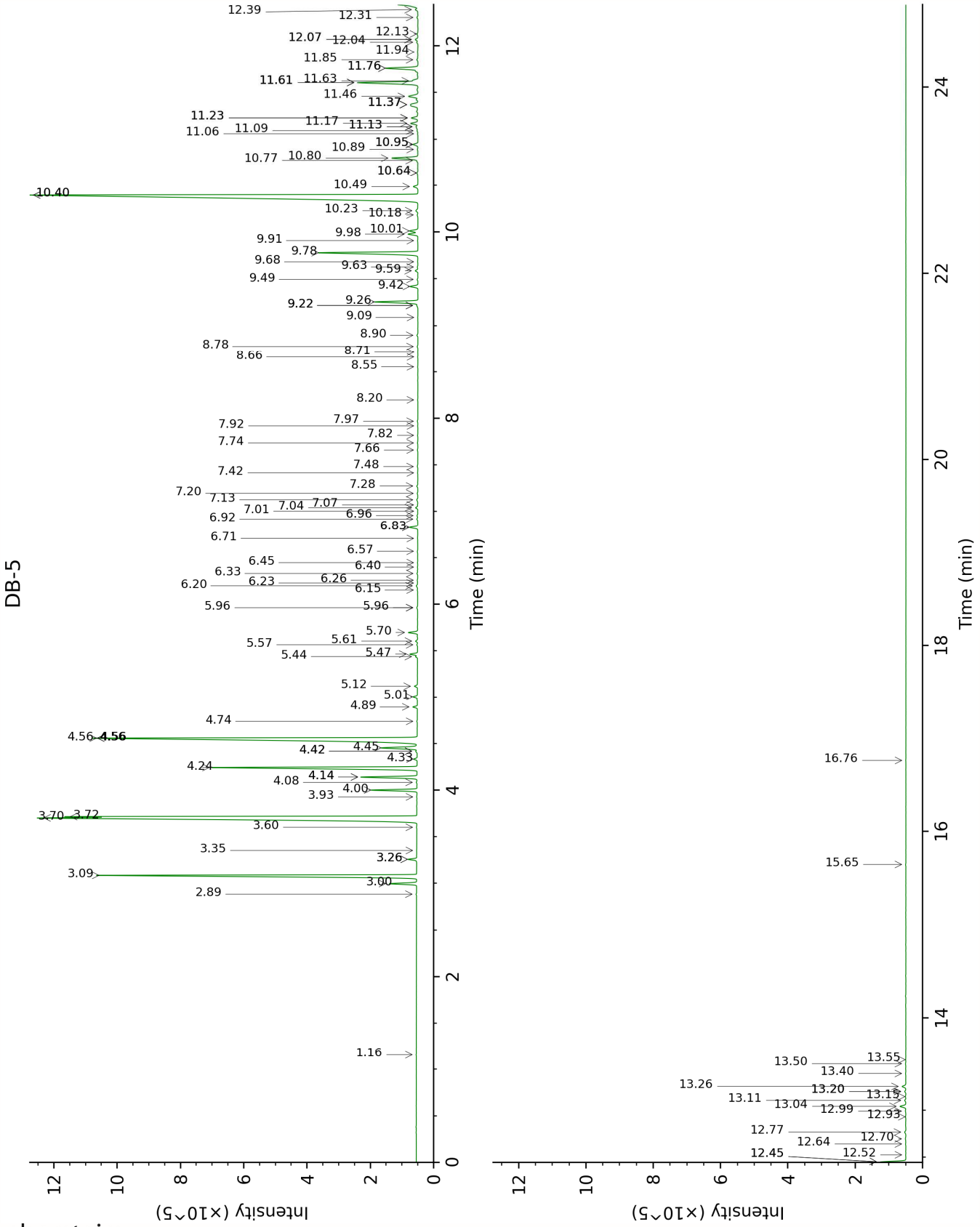

DB-WAX
Time (min)
Intensity (×10^5)
12.19
12.17
12.02
11.79
11.60
11.57
11.46
11.27
11.15
11.16
11.09
10.93
10.89
10.69
10.75
10.65
10.54
10.41
10.46
10.20
10.07
10.09
9.97
9.90
9.81
9.84
9.68
9.62
9.53
9.58
9.68
9.32
9.18
9.24
9.27
9.21
9.03
9.03
9.06
8.90
8.79
8.73
8.63
8.52
8.52
8.35
8.18
8.21
8.27
8.14
8.02
7.97
7.76
7.80
7.64
7.19
7.07
7.00
6.95
6.89
6.81
6.65
6.48
5.45
4.27
4.33
4.16
4.03
3.82
3.85
3.33
3.26
3.15
3.00
2.83
2.87
2.92
2.64
2.48
2.43
2.34
2.34
2.16
1.73
1.67
1.49
1.45
1.40
1.27
16.86
16.49
16.10
15.77
15.43
15.48
15.23
15.09
14.96
14.86
14.72
14.49
14.44
14.16
14.21
14.25
14.02
13.82
13.71
13.39
13.44
13.26
12.72
12.81
12.58


DB-5
Time (min)
Intensity (×10^5)
12.39
12.31
12.07
12.04
12.13
11.94
11.85
11.76
11.61
11.63
11.46
11.37
11.23
11.17
11.13
11.06
11.09
10.89
10.95
10.77
10.80
10.64
10.49
10.40
10.23
10.18
9.98
10.01
9.91
9.78
9.68
9.63
9.59
9.49
9.42
9.22
9.26
9.09
8.90
8.78
8.71
8.66
8.55
8.20
7.92
7.97
7.82
7.74
7.66
7.42
7.48
7.28
7.20
7.13
7.01
7.04
7.07
6.96
6.92
6.83
6.71
6.57
6.45
6.40
6.33
6.26
6.23
6.20
6.15
5.96
5.96
5.70
5.57
5.61
5.44
5.47
5.12
5.01
4.89
4.74
4.56
4.56
4.42
4.45
4.33
4.24
4.08
4.14
4.00
3.93
3.70
3.72
3.60
3.35
3.26
3.09
3.00
2.89
1.16
16.76
15.65
13.50
13.55
13.40
13.26
13.20
13.15
13.11
13.04
12.99
12.93
12.77
12.70
12.64
12.52
12.45

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
Toluene	1.48	1001.0	0.01	1.16	757.9	tr
Tricyclene	1.27	970.0	0.02	2.89	918.4	0.02
α-Thujene	1.45	997.8	0.74	3.00	926.0	0.75
α-Pinene	1.40	992.3	10.15	3.09	931.9	10.16
α-Fenchene	1.66	1018.8	0.01	3.26*	943.4	[0.24]
Camphene	1.73	1025.4	0.22	3.26*	943.4	[0.24]
Thuja-2,4(10)-diene	2.34*	1085.8	[9.14]	3.35	949.7	0.01
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.92*	1133.4	[1.23]	3.60	966.4	0.01
Sabinene	2.34*	1085.8	[9.14]	3.70*†	973.1	[16.67]
β-Pinene	2.16	1067.7	13.42	3.72*†	974.0	[5.88]
Dehydro-1,8-cineole	3.15	1151.2	0.01	3.93	988.2	0.01
Myrcene	2.92*	1133.4	[1.23]	4.00	993.1	1.22
2-Carene	2.43	1094.6	0.03	4.08	998.7	0.03
α-Phellandrene	2.83	1125.6	1.59	4.14*	1002.5	[1.60]
Pseudolimonene	2.87	1129.0	0.03	4.14*	1002.5	[1.60]
Δ3-Carene	2.64	1111.3	6.58	4.24	1009.0	6.59
α-Terpinene	3.00	1139.3	0.10	4.33	1014.8	0.10
Carvomenthene	2.48	1098.5	0.02	4.42*	1020.1	[0.05]
meta-Cymene	4.16*	1227.8	[1.23]	4.42*	1020.1	[0.05]
para-Cymene	4.16*	1227.8	[1.23]	4.45	1022.4	1.21
β-Phellandrene	3.33*	1165.4	[1.25]	4.56*	1029.0	[14.89]
Limonene	3.26	1160.0	13.65	4.56*	1029.0	[14.89]
1,8-Cineole	3.33*	1165.4	[1.25]	4.56*	1029.0	[14.89]
(*Z*)-β-Ocimene	3.82	1203.5	0.02	4.74	1040.4	0.02
(*E*)-β-Ocimene	4.03	1218.7	0.12	4.89	1050.3	0.13
γ-Terpinene	3.85	1205.6	0.13	5.01	1057.6	0.12
cis-Sabinene hydrate	6.95*	1429.9	[0.21]	5.12	1064.8	0.09
Isoterpinolene	4.27	1236.1	0.06	5.44	1085.0	0.05
Terpinolene	4.33	1240.7	0.22	5.47	1086.7	0.23
α-Pinene oxide	5.45	1322.4	0.02	5.57	1093.0	0.03
trans-Sabinene hydrate	8.02	1508.8	0.06	5.61	1095.5	0.06
Linalool	8.14	1517.7	0.25	5.70	1101.4	0.27
trans-para-Mentha-2,8-dien-1-ol	9.02*	1585.8	[0.04]	5.96*	1118.6	[0.04]
cis-para-Menth-2-en-1-ol	8.18	1521.2	0.02	5.96*	1118.6	[0.04]
cis-Limonene oxide	6.48	1395.2	0.01	6.15	1130.8	0.02
cis-para-Mentha-2,8-dien-1-ol	9.53	1626.3	0.04	6.20	1133.8	0.06
trans-Limonene	6.65	1407.7	0.01	6.23	1135.7	0.01

oxide						
trans-para-Menth-2-en-1-ol	9.02*	1585.8	[0.04]	6.26	1137.7	0.02
trans-Verbenol	9.58*	1630.2	[0.18]	6.33	1142.4	0.02
meta-Mentha-4,6-dien-8-ol	9.32*	1609.2	[0.90]	6.40	1146.8	0.01
Sabinaketone	8.80	1568.1	0.01	6.45	1149.9	0.01
Pinocarvone	7.97	1504.7	0.01	6.57	1157.8	0.02
cis-Sabinol	10.89	1737.2	0.04	6.71	1166.8	0.01
Terpinen-4-ol	8.63	1555.5	0.24	6.83*	1174.6	[0.26]
trans-2-Caren-4-ol	7.76	1488.7	0.02	6.83*	1174.6	[0.26]
meta-Cymen-8-ol	11.60	1797.0	0.03	6.92	1180.7	0.03
Cryptone	9.24	1602.8	0.04	6.96	1183.1	0.03
para-Cymen-8-ol	11.57	1794.4	0.01	7.01	1186.2	0.01
α-Terpineol	9.84*	1651.0	[0.23]	7.04	1188.7	0.07
Myrtenal	8.73	1563.0	0.02	7.07	1190.6	0.01
Myrtenol	10.93	1740.3	0.03	7.13	1194.1	0.04
cis-α-Phellandrene epoxide (iPr vs Me)	11.09	1753.8	0.02	7.20	1198.6	0.02
Verbenone	9.68*	1637.8	[0.07]	7.28	1203.8	0.04
Car-2-en-4-one?	9.58*	1630.2	[0.18]	7.42	1213.3	0.01
trans-Carveol	11.46	1785.0	0.02	7.48	1217.9	0.02
cis-Carveol	11.79	1813.8	0.02	7.66	1230.0	0.02
Cuminal	10.66	1717.5	0.03	7.74	1235.2	0.02
Carvone	10.07*†	1669.1	[0.28]	7.82	1240.7	0.01
Car-3-en-2-one	10.46*	1701.4	[1.08]	7.92	1247.7	0.01
Unknown CALU IV [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	11.16	1760.3	0.02	7.97	1251.0	0.02
trans-Ascaridole glycol	14.21	2035.4	0.01	8.20	1266.7	0.01
Cuminol	14.25	2038.9	0.01	8.55	1290.9	0.01
Unknown MISC IX [m/z 43, 93 (66), 91 (44), 41 (38), 69 (35)... 152? (1)]				8.66	1298.3	0.01
Car-3-en-5-one	12.17*	1847.6	[0.05]	8.71	1301.9	0.01
para-Menth-5-en-1,2-diol isomer II	14.49	2062.2	0.01	8.78	1306.2	0.03
para-Menth-5-en-1,2-diol isomer III	15.23*	2135.3	[0.15]	8.90	1311.0	0.04
Methyl geranate	9.84*	1651.0	[0.23]	9.09	1324.6	0.01
δ-Elemene isomer	6.89	1425.0	0.02	9.22*	1333.7	[0.05]
Bicycloelemene	7.07*	1438.2	[0.02]	9.22*	1333.7	[0.05]

δ-Elemene	7.00*	1433.1	[1.40]	9.26	1336.4	1.39
α-Cubebene	6.81	1419.0	0.25	9.42	1348.2	0.26
Eugenol	14.86	2097.7	0.04	9.50	1353.5	0.02
Cyclosativene I	6.95*	1429.9	[0.21]	9.59	1360.1	0.09
Cyclosativene II	7.00*	1433.1	[1.40]	9.63	1363.0	0.02
α-Ylangene	7.07*	1438.2	[0.02]	9.68	1366.9	0.01
α-Copaene	7.19	1447.3	3.47	9.78	1373.8	3.49
cis-β-Elemene	8.34	1533.6	0.03	9.91	1383.0	0.02
β-Cubebene	7.80	1492.2	0.32	9.98	1388.0	0.34
β-Elemene	8.52*	1546.7	[24.00]	10.01	1390.4	0.29
Isocaryophyllene	8.21	1523.4	0.03	10.18	1402.6	0.03
α-Gurjunene	7.64	1480.1	0.09	10.23	1405.8	0.09
cis-α-Bergamotene	8.27	1528.0	0.03	10.40*	1418.4	[23.63]
β-Caryophyllene	8.52*	1546.7	[24.00]	10.40*	1418.4	[23.63]
β-Copaene	8.52*	1546.7	[24.00]	10.49	1425.2	0.16
α-Guaiene	8.52*	1546.7	[24.00]	10.64*	1436.7	[0.04]
trans-α-Bergamotene	8.52*	1546.7	[24.00]	10.64*	1436.7	[0.04]
trans-Muurola-3,5-diene	8.90	1576.0	0.05	10.77	1446.7	0.03
α-Humulene	9.32*	1609.2	[0.90]	10.80	1448.6	0.89
allo-Aromadendrene	9.06	1588.5	0.01	10.89	1455.6	0.02
(*E*)-β-Farnesene	9.58*	1630.2	[0.18]	10.94*	1459.6	[0.17]
β-Santalene	9.18	1597.7	0.01	10.94*	1459.6	[0.17]
γ-Gurjunene	9.21	1600.4	0.02	11.06	1468.2	0.02
trans-Cadina-1(6),4-diene	9.27	1605.5	0.02	11.09	1470.6	0.03
γ-Muurolene	9.62*	1633.1	[0.08]	11.14*	1473.9	[0.10]
α-Amorphene	9.62*	1633.1	[0.08]	11.14*	1473.9	[0.10]
Germacrene D	9.81	1648.3	0.23	11.17	1476.6	0.27
ar-Curcumene	10.69	1720.8	0.06	11.23*	1480.9	[0.25]
β-Selinene	9.90	1655.4	0.24	11.23*	1480.9	[0.25]
α-Selinene	9.97	1661.4	0.16	11.37*	1491.6	[0.47]
epi-Cubebol	12.02	1834.1	0.10	11.37*	1491.6	[0.47]
Bicyclogermacrene	10.09*†	1671.0	[0.17]	11.37*	1491.6	[0.47]
Viridiflorene	9.68*	1637.8	[0.07]	11.37*	1491.6	[0.47]
α-Muurolene	10.09*†	1671.0	[0.17]	11.46	1498.3	0.40
Cubebol	12.58	1883.9	0.16	11.61*	1509.6	[2.16]
γ-Cadinene	10.41	1696.8	0.06	11.61*	1509.6	[2.16]
β-Bisabolene	10.20	1679.7	2.09	11.61*	1509.6	[2.16]
7-epi-α-Selinene	10.46*	1701.4	[1.08]	11.63	1511.1	0.14
trans-Calamenene	11.27	1769.0	0.10	11.76*	1521.8	[1.11]
δ-Cadinene	10.46*	1701.4	[1.08]	11.76*	1521.8	[1.11]
(*E*)-γ-Bisabolene	10.54	1708.2	0.06	11.85	1528.9	0.04
α-Calacorene	12.17*	1847.6	[0.05]	11.94	1535.4	0.02

(*E*)-α-Bisabolene	10.75	1725.7	0.04	12.04	1543.8	0.05
Isocaryophyllene epoxide B	12.19	1849.1	0.04	12.07*	1546.1	[0.10]
α-Elemol	14.16	2030.1	0.02	12.07*	1546.1	[0.10]
Germacrene B	11.15	1759.1	0.03	12.13	1550.8	0.04
(*E*)-Nerolidol	13.82	1998.1	0.05	12.31	1564.8	0.04
Spathulenol	14.44	2056.9	0.11	12.39	1571.5	0.10
Caryophyllene oxide isomer	12.72	1896.7	0.20	12.45*	1576.0	[1.02]
Caryophyllene oxide	12.81	1904.1	0.80	12.45*	1576.0	[1.02]
Unknown MECA III [m/z 161, 105 (84), 43 (80), 119 (72), 93 (62), 121 (54)... 204 (38), 222 (2)]	14.02	2017.1	0.01	12.52	1582.0	0.01
Humulene epoxide I	13.26	1945.8	0.01	12.64	1591.2	0.01
Ledol	13.44	1962.1	0.02	12.70	1595.6	0.03
Humulene epoxide II	13.40	1958.2	0.04	12.77	1601.3	0.05
α-Corocalene	13.71	1987.1	0.02	12.93	1614.7	0.02
Unknown MECA IV [m/z 161, 43 (74), 105 (57), 121 (45), 81 (43)... 204 (31)...]	14.72	2084.3	0.02	12.99	1619.8	0.02
Alismol	15.77	2189.3	0.19	13.04	1624.1	0.20
Caryophylladienol II	16.10	2223.5	0.05	13.11	1629.4	0.04
Isospathulenol	15.48	2159.6	0.01	13.15	1632.8	0.02
τ-Cadinol	14.96	2108.4	0.01	13.20*	1637.3	[0.04]
τ-Muurolol	15.09	2121.3	0.03	13.20*	1637.3	[0.04]
α-Muurolol	15.23*	2135.3	[0.15]	13.26	1641.8	0.13
cis-Calamenen-10-ol	16.49	2263.9	0.04	13.40	1653.4	0.01
trans-Calamenen-10-ol	16.86*	2303.0	[0.03]	13.50	1662.2	0.02
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	16.86*	2303.0	[0.03]	13.55	1665.7	0.01
Phytone				15.65	1848.6	0.01
meta-Camphorene	15.42	2154.5	0.02	16.76	1952.2	0.01
Total reported		99.24%			99.43%	

*: 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