**Date :** 2024-06-27

# *Certificate of Analysis - GC Profiling*

## *Sample Identification*

**Internal code :** 24F12-PTH01
**Customer Identification :** Palo Santo - Ecuador - PJ0110R
**Type :** Essential Oil
**Source :** *Bursera graveolens*
**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*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 :** Sylvain Mercier, M. Sc., Chimiste 2014-005
**Date :** 2024-06-19

## *Physicochemical data*

**Refractive index :** 1.479 ± 0.0003 (20 °C)
**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.
**Analyst :** Cindy Caron B. Sc.
**Date :** 2024-06-14

## *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 |
|---|---|---|
| 3-Methylcyclopentanone | 0.02 | Aliphatic ketone |
| α-Pinene | 0.07 | Monoterpene |
| 3-Methylcyclohexanone | 0.03 | Aliphatic ketone |
| Sabinene | 0.01 | Monoterpene |
| Hexahydroacetophenone epimer I | 0.03 | Aliphatic ketone |
| Hexahydroacetophenone epimer II | 0.03 | Aliphatic ketone |
| Dehydro-1,8-cineole | 0.01 | Monoterpenic ether |
| Myrcene | 0.35 | Monoterpene |
| α-Phellandrene | 0.17 | Monoterpene |
| Pseudolimonene | 0.02 | Monoterpene |
| α-Terpinene | 0.01 | Monoterpene |
| Carvomenthene | 0.02 | Aliphatic alcohol |
| *para*-Cymene | 0.62 | Monoterpene |
| Limonene | 62.69 | Monoterpene |
| 1,8-Cineole | [0.27] | Monoterpenic ether |
| β-Phellandrene | [0.27] | Monoterpene |
| (*E*)-β-Ocimene | 0.01 | Monoterpene |
| γ-Terpinene | 0.02 | Monoterpene |
| Terpinolene | 0.03 | Monoterpene |
| *para*-Cymenene | 0.04 | Monoterpene |
| Linalool | 0.06 | Monoterpenic alcohol |
| *trans*-*para*-Mentha-2,8-dien-1-ol | 0.06 | Monoterpenic alcohol |
| *cis*-Limonene oxide | 0.03 | Monoterpenic ether |
| *cis*-*para*-Mentha-2,8-dien-1-ol | 0.10 | Monoterpenic alcohol |
| *trans*-Limonene oxide | 0.04 | Monoterpenic ether |
| *cis*-β-Terpineol | 0.07 | Monoterpenic alcohol |
| Menthone | 0.07 | Monoterpenic ketone |
| Menthofuran | 17.17 | Monoterpenic ether |
| Isomenthone | 0.11 | Monoterpenic ketone |
| *trans*-β-Terpineol | 0.05 | Monoterpenic alcohol |
| neo-Menthol | 0.03 | Monoterpenic alcohol |
| *trans*-Isopulegone | 0.08 | Monoterpenic ketone |
| Unknown | 0.02 | Oxygenated monoterpene |
| Terpinen-4-ol | 0.05 | Monoterpenic alcohol |
| *trans*-Isocarveol | 0.01 | Monoterpenic alcohol |
| α-Terpineol | 8.54 | Monoterpenic alcohol |
| Unknown | 0.02 | Unknown |
| *cis*-Dihydrocarvone | 0.10 | Monoterpenic ketone |
| *trans*-Dihydrocarvone | 0.06 | Monoterpenic ketone |
| *trans*-Isopiperitenol | 0.08 | Monoterpenic alcohol |

| | | |
|---|---|---|
| *trans*-Piperitol | 0.03 | Monoterpenic alcohol |
| 4,7-Dimethylbenzofuran? | 0.01 | Furan |
| *cis*-Isopiperitenol | 0.01 | Monoterpenic alcohol |
| *trans*-Carveol | 0.08 | Monoterpenic alcohol |
| *cis-para*-Mentha-1(7),8-dien-2-ol | 0.02 | Monoterpenic alcohol |
| *cis*-Carveol | 0.03 | Monoterpenic alcohol |
| Pulegone | 0.82 | Monoterpenic ketone |
| Carvone | 0.97 | Monoterpenic ketone |
| Unknown | 0.07 | Unknown |
| Unknown | 0.01 | Unknown |
| Unknown | 0.08 | Unknown |
| Menthofurolactone isomer I | 0.13 | Monoterpenic lactone |
| Menthofurolactone isomer II | 0.17 | Monoterpenic lactone |
| α-Copaene | 0.07 | Sesquiterpene |
| *cis*-β-Elemene | 0.02 | Sesquiterpene |
| β-Cubebene | 0.04 | Sesquiterpene |
| β-Elemene | 0.10 | Sesquiterpene |
| Unknown | 0.01 | Unknown |
| α-Cedrene | 0.03 | Sesquiterpene |
| β-Ylangene | 0.07 | Sesquiterpene |
| 8-Hydroxycarvotanacetone | 0.02 | Monoterpenic alcohol |
| β-Copaene | 0.06 | Sesquiterpene |
| *cis*-Thujopsene | 0.03 | Sesquiterpene |
| Menthofurolactone isomer III | 0.08 | Monoterpenic lactone |
| *cis*-β-Bergamotene? | 0.04 | Sesquiterpene |
| Unknown | 0.15 | Sesquiterpene |
| α-Humulene | 0.04 | Sesquiterpene |
| allo-Aromadendrene | 0.02 | Sesquiterpene |
| γ-Muurolene | 0.23 | Sesquiterpene |
| Germacrene D | 2.84 | Sesquiterpene |
| β-Selinene | 0.06 | Sesquiterpene |
| Menthalactone | 0.19 | Monoterpenic lactone |
| Bicyclogermacrene | 0.12 | Sesquiterpene |
| α-Selinene | 0.07 | Sesquiterpene |
| α-Muurolene | 0.10 | Sesquiterpene |
| Germacrene A | 0.06 | Sesquiterpene |
| γ-Cadinene | 0.11 | Sesquiterpene |
| (3*E*,6*E*)-α-Farnesene | 0.33 | Sesquiterpene |
| β-Bisabolene | 0.04 | Sesquiterpene |
| *trans*-Calamenene | 0.03 | Sesquiterpene |
| δ-Cadinene | 0.32 | Sesquiterpene |
| Menthofurolactone analog | 0.08 | Monoterpenic lactone |
| α-Cadinene | 0.04 | Sesquiterpene |
| Germacrene B | 0.05 | Sesquiterpene |
| 1,5-Epoxysalvial-4(14)-ene | 0.02 | Sesquiterpenic ether |

| | | |
|---|---|---|
| 7α-Hydroxymintlactone | 0.03 | Monoterpenic alcohol |
| (*E*)-Nerolidol | 0.04 | Sesquiterpenic alcohol |
| Spathulenol | 0.04 | Sesquiterpenic alcohol |
| Unknown | 0.03 | Oxygenated sesquiterpene |
| Salvial-4(14)-en-1-one | 0.01 | Aliphatic alcohol |
| Unknown | 0.03 | Oxygenated sesquiterpene |
| 10-epi-γ-Eudesmol | 0.03 | Sesquiterpenic alcohol |
| Junenol | 0.08 | Sesquiterpenic alcohol |
| 1-epi-Cubenol | 0.04 | Sesquiterpenic alcohol |
| τ-Cadinol | 0.03 | Sesquiterpenic alcohol |
| τ-Muurolol | 0.05 | Sesquiterpenic alcohol |
| β-Eudesmol | 0.03 | Sesquiterpenic alcohol |
| Unknown | 0.06 | Sesquiterpenic alcohol |
| α-Cadinol | 0.06 | Sesquiterpenic alcohol |
| Germacra-4(15),5,10(14)-trien-1α-ol | 0.02 | Sesquiterpenic alcohol |
| **Consolidated total** | **99.73** | |

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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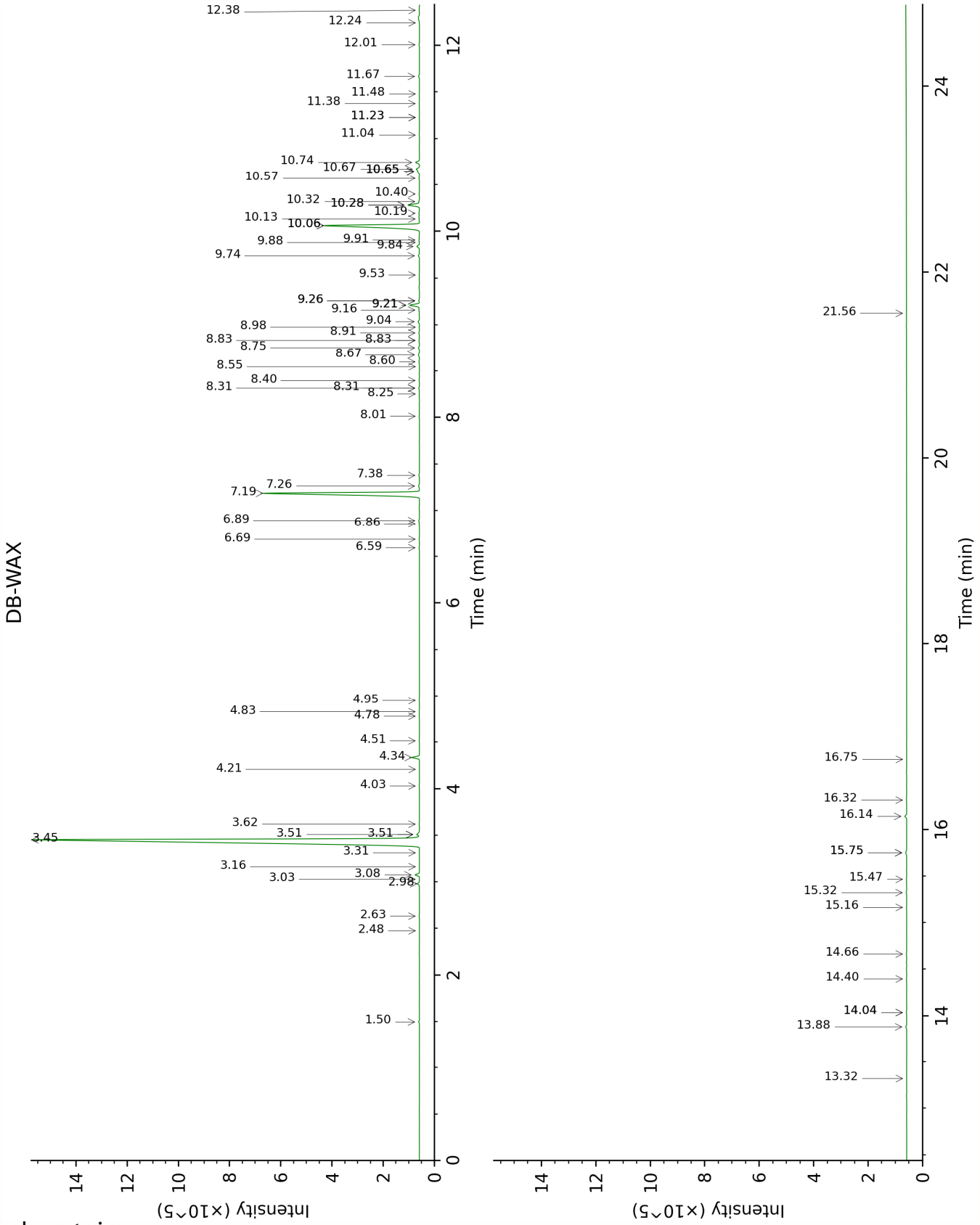
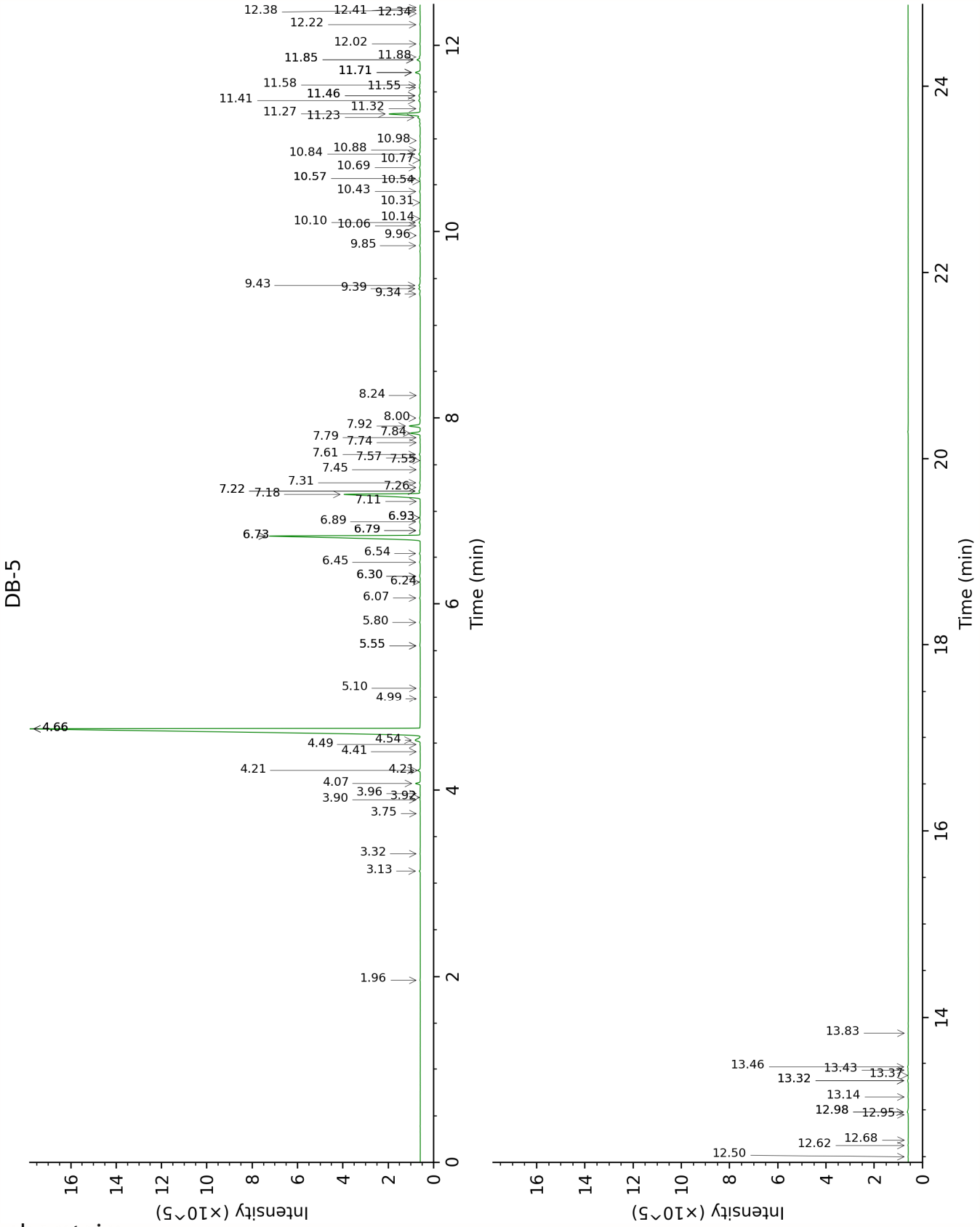

DB-WAX
Time (min)
Intensity (×10^5)
12.38
12.24
12.01
11.67
11.48
11.38
11.23
11.04
10.74
10.67
10.65
10.57
10.40
10.32
10.28
10.19
10.13
10.06
9.91
9.88
9.84
9.74
9.53
9.26
9.21
9.16
9.04
8.98
8.91
8.83
8.83
8.75
8.67
8.60
8.55
8.40
8.31
8.31
8.25
8.01
7.38
7.26
7.19
6.89
6.86
6.69
6.59
4.95
4.83
4.78
4.51
4.34
4.21
4.03
3.62
3.51
3.51
3.45
3.31
3.16
3.08
3.03
2.98
2.63
2.48
1.50
21.56
16.75
16.32
16.14
15.75
15.47
15.32
15.16
14.66
14.40
14.04
13.88
13.32


DB-5
Time (min)
Intensity (×10^5)
12.38
12.41
12.34
12.22
12.02
11.85
11.88
11.71
11.58
11.55
11.41
11.46
11.32
11.27
11.23
10.98
10.84
10.88
10.77
10.69
10.57
10.54
10.43
10.31
10.10
10.06
10.14
9.96
9.85
9.43
9.39
9.34
8.24
8.00
7.92
7.84
7.79
7.74
7.61
7.57
7.55
7.45
7.31
7.26
7.22
7.18
7.11
6.89
6.93
6.73
6.79
6.54
6.45
6.30
6.24
6.07
5.80
5.55
5.10
4.99
4.66
4.49
4.54
4.41
4.21
4.21
4.07
3.96
3.92
3.90
3.75
3.32
3.13
1.96
13.83
13.46
13.43
13.37
13.32
13.14
12.98
12.95
12.62
12.68
12.50

*FULL ANALYSIS DATA*

| | Column DB-WAX | | | Column DB-5 | | |
|---|---|---|---|---|---|---|
| **3-Methylcyclopentanone** | 3.62 | 1172.9 | 0.03 | 1.96 | 840.8 | 0.02 |
| α-Pinene | 1.50 | 989.6 | 0.06 | 3.13 | 931.1 | 0.07 |
| 3-Methylcyclohexanone | 4.95 | 1267.0 | 0.03 | 3.32 | 943.4 | 0.03 |
| Sabinene | 2.48 | 1084.6 | 0.02 | 3.75 | 971.9 | 0.01 |
| Hexahydroacetophenone epimer I | 4.78 | 1255.2 | 0.03 | 3.90 | 981.7 | 0.03 |
| Hexahydroacetophenone epimer II | 4.83 | 1258.5 | 0.03 | 3.92 | 983.4 | 0.03 |
| Dehydro-1,8-cineole | 3.31 | 1149.8 | 0.02 | 3.96 | 986.1 | 0.01 |
| Myrcene | 3.08 | 1131.9 | 0.36 | 4.07 | 993.3 | 0.35 |
| α-Phellandrene | 2.98 | 1124.7 | 0.17 | 4.21* | 1002.6 | [0.20] |
| Pseudolimonene | 3.03 | 1128.3 | 0.02 | 4.21* | 1002.6 | [0.20] |
| α-Terpinene | 3.16 | 1138.5 | 0.02 | 4.41 | 1015.2 | 0.01 |
| Carvomenthene | 2.63 | 1098.3 | 0.04 | 4.49 | 1020.1 | 0.02 |
| *para*-Cymene | 4.34 | 1224.3 | 0.64 | 4.54 | 1023.0 | 0.62 |
| Limonene | 3.45 | 1160.3 | 62.69 | 4.66* | 1030.6 | [62.71] |
| 1,8-Cineole | 3.51* | 1164.6 | [0.27] | 4.66* | 1030.6 | [62.71] |
| β-Phellandrene | 3.51* | 1164.6 | [0.27] | 4.66* | 1030.6 | [62.71] |
| (*E*)-β-Ocimene | 4.21 | 1215.4 | 0.01 | 4.98 | 1051.3 | 0.01 |
| γ-Terpinene | 4.03 | 1202.9 | 0.03 | 5.10 | 1058.4 | 0.02 |
| Terpinolene | 4.52 | 1236.8 | 0.03 | 5.55* | 1086.9 | [0.06] |
| *para*-Cymenene | 6.59 | 1387.1 | 0.04 | 5.55* | 1086.9 | [0.06] |
| Linalool | 8.32* | 1515.0 | [0.08] | 5.80 | 1102.7 | 0.06 |
| *trans-para*-Mentha-2,8-dien-1-ol | 9.21* | 1583.9 | [0.90] | 6.06 | 1119.3 | 0.06 |
| *cis*-Limonene oxide | 6.69 | 1393.8 | 0.04 | 6.24 | 1130.2 | 0.03 |
| *cis-para*-Mentha-2,8-dien-1-ol | 9.74 | 1626.1 | 0.10 | 6.30* | 1134.2 | [0.09] |
| *trans*-Limonene oxide | 6.86 | 1406.3 | 0.04 | 6.30* | 1134.2 | [0.09] |
| *cis*-β-Terpineol | 9.26* | 1587.6 | [0.07] | 6.45 | 1143.9 | 0.07 |
| Menthone | 6.89 | 1408.9 | 0.07 | 6.54 | 1149.8 | 0.07 |
| Menthofuran | 7.19 | 1430.7 | 17.17 | 6.73* | 1161.8 | [17.14] |
| Isomenthone | 7.26 | 1436.4 | 0.11 | 6.73* | 1161.8 | [17.14] |
| *trans*-β-Terpineol | 9.91 | 1639.6 | 0.05 | 6.79* | 1165.6 | [0.08] |
| neo-Menthol | 8.83* | 1554.9 | [0.06] | 6.79* | 1165.6 | [0.08] |
| *trans*-Isopulegone | 9.16 | 1579.9 | 0.08 | 6.89 | 1172.1 | 0.08 |
| Unknown CASA XVIII [m/z 69, 84 (62), 41 (30), 123 (26), 97 (24), 109 (23)...] | 9.88 | 1637.5 | 0.02 | 6.93* | 1174.8 | [0.07] |
| Terpinen-4-ol | 8.83* | 1554.9 | [0.06] | 6.93* | 1174.8 | [0.07] |
| *trans*-Isocarveol | 11.23* | 1748.1 | [0.03] | 7.11 | 1186.0 | 0.01 |
| α-Terpineol | 10.06* | 1652.0 | [11.42] | 7.18 | 1190.8 | 8.54 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Unknown MISC XXXII [m/z 121, 79 (61), 93 (55), 94 (40), 91 (39), 84 (37)...] | 8.32* | 1515.0 | [0.08] | 7.22*† | 1193.1 | [0.15] |
| *cis*-Dihydrocarvone | 8.75 | 1548.7 | 0.10 | 7.22*† | 1193.1 | [0.15] |
| *trans*-Dihydrocarvone | 8.91 | 1561.1 | 0.06 | 7.26*† | 1195.6 | [0.04] |
| *trans*-Isopiperitenol | 10.65* | 1699.4 | [0.15] | 7.31*† | 1198.8 | [0.07] |
| *trans*-Piperitol | 10.65* | 1699.4 | [0.15] | 7.45 | 1207.9 | 0.03 |
| 4,7-Dimethylbenzofuran? | | | | 7.55 | 1214.5 | 0.01 |
| *cis*-Isopiperitenol | 10.57 | 1692.9 | 0.05 | 7.57 | 1216.3 | 0.01 |
| *trans*-Carveol | 11.67 | 1785.1 | 0.09 | 7.61 | 1218.8 | 0.08 |
| *cis-para*-Mentha-1(7),8-dien-2-ol | 12.24 | 1835.3 | 0.01 | 7.74 | 1227.4 | 0.02 |
| *cis*-Carveol | 12.01 | 1814.7 | 0.05 | 7.79 | 1230.9 | 0.03 |
| Pulegone | 9.21* | 1583.9 | [0.90] | 7.84 | 1234.1 | 0.82 |
| Carvone | 10.28* | 1669.7 | [1.06] | 7.92 | 1239.3 | 0.97 |
| Unknown BUGR I [m/z 112, 43 (70), 70 (63), 59 (53), 97 (46), 84 (25)...] | | | | 8.00 | 1245.0 | 0.07 |
| Unknown MEPU IV [m/z 112, 70 (63), 43 (59), 59 (51), 97 (45), 84 (22)...] | 11.23* | 1748.1 | [0.03] | 8.24 | 1261.2 | 0.01 |
| Unknown BUGR III [m/z 150, 71 (67), 107 (54), 43 (44), 109 (42)...] | | | | 9.34 | 1336.0 | 0.08 |
| Menthofurolactone isomer I | | | | 9.39 | 1340.0 | 0.13 |
| Menthofurolactone isomer II | | | | 9.43 | 1342.5 | 0.17 |
| α-Copaene | 7.38 | 1444.9 | 0.06 | 9.85 | 1372.4 | 0.07 |
| *cis*-β-Elemene | 8.55 | 1532.8 | 0.02 | 9.96 | 1380.1 | 0.02 |
| β-Cubebene | 8.01 | 1491.7 | 0.04 | 10.06 | 1387.3 | 0.04 |
| β-Elemene | 8.67 | 1542.6 | 0.12 | 10.10 | 1389.8 | 0.10 |
| Unknown CALU VIII [m/z 71, 100 (92), 111 (79), 69 (46), 109 (45)...] | | | | 10.14 | 1392.8 | 0.01 |
| α-Cedrene | 8.25 | 1510.2 | 0.03 | 10.31 | 1404.9 | 0.03 |
| β-Ylangene | 8.40 | 1521.3 | 0.05 | 10.43 | 1413.7 | 0.07 |
| 8-Hydroxycarvotanacetone | 16.75 | 2264.1 | 0.01 | 10.54 | 1421.8 | 0.02 |
| β-Copaene | 8.60 | 1536.8 | 0.06 | 10.57* | 1424.0 | [0.10] |
| *cis*-Thujopsene | 8.98 | 1565.8 | 0.03 | 10.57* | 1424.0 | [0.10] |
| Menthofurolactone isomer III | | | | 10.69 | 1433.4 | 0.08 |
| *cis*-β-Bergamotene? | | | | 10.77 | 1439.3 | 0.04 |
| Unknown BOCA IV [m/z | 9.04 | 1570.4 | 0.14 | 10.84 | 1444.0 | 0.15 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)] | | | | | | |
| α-Humulene | 9.53 | 1609.5 | 0.03 | 10.88 | 1447.5 | 0.04 |
| allo-Aromadendrene | 9.26* | 1587.6 | [0.07] | 10.98 | 1454.8 | 0.02 |
| γ-Muurolene | 9.84 | 1634.1 | 0.25 | 11.23 | 1473.4 | 0.23 |
| Germacrene D | 10.06* | 1652.0 | [11.42] | 11.27 | 1476.1 | 2.84 |
| β-Selinene | 10.13 | 1657.7 | 0.04 | 11.32 | 1480.4 | 0.06 |
| Menthalactone | 16.14 | 2201.6 | 0.17 | 11.41 | 1486.8 | 0.19 |
| Bicyclogermacrene | 10.28* | 1669.7 | [1.06] | 11.46* | 1490.7 | [0.19] |
| α-Selinene | 10.19 | 1662.6 | 0.07 | 11.46* | 1490.7 | [0.19] |
| α-Muurolene | 10.32 | 1672.6 | 0.05 | 11.55 | 1497.1 | 0.10 |
| Germacrene A | 10.65* | 1699.4 | [0.15] | 11.58 | 1499.2 | 0.06 |
| γ-Cadinene | 10.65* | 1699.4 | [0.15] | 11.71* | 1509.5 | [0.48] |
| (3*E*,6*E*)-α-Farnesene | 10.74 | 1707.6 | 0.33 | 11.71* | 1509.5 | [0.48] |
| β-Bisabolene | 10.40 | 1679.1 | 0.04 | 11.71* | 1509.5 | [0.48] |
| *trans*-Calamenene | 11.48 | 1769.3 | 0.03 | 11.85* | 1520.3 | [0.32] |
| δ-Cadinene | 10.67 | 1701.5 | 0.32 | 11.85* | 1520.3 | [0.32] |
| Menthofurolactone analog | | | | 11.88 | 1522.5 | 0.08 |
| α-Cadinene | 11.04 | 1732.3 | 0.04 | 12.02 | 1533.5 | 0.04 |
| Germacrene B | 11.38 | 1760.7 | 0.03 | 12.22 | 1549.8 | 0.05 |
| 1,5-Epoxysalvial-4(14)-ene | 12.38 | 1847.1 | 0.03 | 12.34 | 1559.1 | 0.02 |
| 7α-Hydroxymintlactone | 21.56 | 2808.9 | 0.02 | 12.38 | 1562.0 | 0.03 |
| (*E*)-Nerolidol | 14.04* | 1997.0 | [0.03] | 12.41 | 1564.5 | 0.04 |
| Spathulenol | 14.66 | 2056.6 | 0.03 | 12.50 | 1571.4 | 0.04 |
| Unknown BOCA XIX [m/z 161, 105 (61), 43 (51), 121 (45), 93 (39), 81 938), 95 (37), 122 (35)... 204 (25)...] | | | | 12.62 | 1580.9 | 0.03 |
| Salvial-4(14)-en-1-one | 13.32 | 1931.3 | 0.02 | 12.68 | 1585.4 | 0.01 |
| Unknown CULO XXIII [m/z 43, 93 (88), 91 (76), 79 (73), 69 (64), 41 (63), 95 (53).. 220 (3)] | | | | 12.95 | 1606.9 | 0.03 |
| 10-epi-γ-Eudesmol | 14.40 | 2031.2 | 0.03 | 12.98* | 1609.4 | [0.13] |
| Junenol | 13.88 | 1982.4 | 0.08 | 12.98* | 1609.4 | [0.13] |
| 1-epi-Cubenol | 14.04* | 1997.0 | [0.03] | 13.14 | 1622.7 | 0.04 |
| τ-Cadinol | 15.16 | 2104.8 | 0.03 | 13.32* | 1637.2 | [0.08] |
| τ-Muurolol | 15.32 | 2120.3 | 0.05 | 13.32* | 1637.2 | [0.08] |
| β-Eudesmol | 15.75* | 2162.4 | [0.12] | 13.37 | 1641.9 | 0.03 |
| Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 | 15.47 | 2134.4 | 0.03 | 13.43 | 1646.5 | 0.06 |

| | | | | | | |
|---|---|---|---|---|---|---|
| (40)... 204 (35), 222 (2)] | | | | | | |
| α-Cadinol | 15.75* | 2162.4 | [0.12] | 13.46 | 1649.4 | 0.06 |
| Germacra-4(15),5,10(14)-trien-1α-ol | 16.32 | 2219.4 | 0.03 | 13.83 | 1679.9 | 0.02 |
| Total reported | | 98.82% | | | 99.26% | |
| | | | | | | |

*: 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

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