**Date :** 2024-04-03

# *Certificate of Analysis - GC Profiling*

## *Sample Identification*

**Internal code :** 24C19-PTH03
**Customer Identification :** Cinnamon Bark - Sri Lanka - CC0110R
**Type :** Essential Oil
**Source :** *Cinnamomum zeylanicum [syn. Cinnamomum verum]*
**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*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 :** Alexis St-Gelais, Ph. D., Chimiste 2013-174
**Date :** 2024-04-03

## *Physicochemical data*

**Refractive index :** 1.5845 ± 0.0003 (20 °C)
**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.
**Analyst :** Cindy Caron B. Sc.
**Date :** 2024-03-20

## *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 |
|---|---|---|
| Ethyl 2-methylbutyrate | tr | Aliphatic ester |
| Ethylbenzene | 0.01 | Simple phenolic |
| Styrene | 0.03 | Simple phenolic |
| Tricyclene | 0.01 | Monoterpene |
| α-Thujene | 0.23 | Monoterpene |
| α-Pinene | 2.44 | Monoterpene |
| Camphene | 0.30 | Monoterpene |
| α-Fenchene | 0.01 | Monoterpene |
| Benzaldehyde | 0.16 | Simple phenolic |
| β-Pinene | 0.28 | Monoterpene |
| Sabinene | 0.07 | Monoterpene |
| Myrcene | 0.05 | Monoterpene |
| Pseudolimonene | tr | Monoterpene |
| α-Phellandrene | 0.82 | Monoterpene |
| Δ3-Carene | 0.08 | Monoterpene |
| α-Terpinene | 0.47 | Monoterpene |
| *meta*-Cymene | 0.02 | Monoterpene |
| *para*-Cymene | 1.34 | Monoterpene |
| β-Phellandrene | 2.33 | Monoterpene |
| Limonene | 1.37 | Monoterpene |
| 1,8-Cineole | 0.95 | Monoterpenic ether |
| (*Z*)-β-Ocimene | 0.04 | Monoterpene |
| Butyl 2-methylbutyrate | 0.01 | Aliphatic ester |
| (*E*)-β-Ocimene | 0.02 | Monoterpene |
| γ-Terpinene | 0.05 | Monoterpene |
| *cis*-Linalool oxide (fur.) | 0.01 | Monoterpenic alcohol |
| *para*-Cymenene | 0.03 | Monoterpene |
| Terpinolene | 0.07 | Monoterpene |
| *trans*-Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| Linalool | 2.95 | Monoterpenic alcohol |
| (3*E*)-2,7-Dimethyl-3,6-octadien-2-ol | 0.03 | Monoterpenic alcohol |
| Phenylethyl alcohol | 0.01 | Simple phenolic |
| *cis-para*-Menth-2-en-1-ol | 0.02 | Monoterpenic alcohol |
| α-Campholenal | 0.01 | Monoterpenic aldehyde |
| Cosmene | 0.01 | Monoterpene |
| *trans*-Pinocarveol | 0.01 | Monoterpenic alcohol |
| Camphor | 0.06 | Monoterpenic ketone |
| *trans*-Sabinol | 0.02 | Monoterpenic alcohol |
| Camphene hydrate | 0.01 | Monoterpenic alcohol |
| Hydrocinnamal | 0.23 | Phenylpropanoid |

| | | |
|---|---|---|
| Borneol | 0.06 | Monoterpenic alcohol |
| 3-Methylbenzofuran? | 0.01 | Phenylpropanoid |
| Benzyl acetate | 0.01 | Phenolic ester |
| Terpinen-4-ol | 0.23 | Monoterpenic alcohol |
| *para*-Cymen-8-ol | 0.03 | Monoterpenic alcohol |
| α-Terpineol | 0.33 | Monoterpenic alcohol |
| *cis*-Piperitol | 0.02 | Monoterpenic alcohol |
| *cis*-α-Phellandrene epoxide (iPr vs Me) | 0.04 | Monoterpenic ether |
| *trans*-Piperitol | 0.02 | Monoterpenic alcohol |
| (*Z*)-Cinnamal | 0.36 | Phenylpropanoid |
| Hydrocinnamyl alcohol | 0.07 | Phenylpropanoid |
| *ortho*-Anisaldehyde | 0.04 | Simple phenolic |
| Phenylethyl acetate | 0.01 | Phenolic ester |
| Chavicol | 0.04 | Phenylpropanoid |
| (*E*)-Cinnamal | 70.59 | Phenylpropanoid |
| Safrole | tr | Phenylpropanoid |
| (*E*)-Cinnamyl alcohol | 0.03 | Phenylpropanoid |
| α-Cubebene | 0.01 | Sesquiterpene |
| Hydrocinnamic acid | tr | Phenylpropanoid |
| Eugenol | 3.22 | Phenylpropanoid |
| Hydrocinnamyl acetate | 0.05 | Phenylpropanoid ester |
| α-Copaene | 0.28 | Sesquiterpene |
| β-Cubebene | 0.01 | Sesquiterpene |
| β-Elemene | 0.04 | Sesquiterpene |
| Isocaryophyllene | 0.02 | Sesquiterpene |
| α-Gurjunene | 0.01 | Sesquiterpene |
| β-Caryophyllene | 2.53 | Sesquiterpene |
| (*E*)-Cinnamyl acetate | 4.20 | Phenylpropanoid ester |
| α-Humulene | 0.44 | Sesquiterpene |
| (*E*)-Cinnamic acid | 0.16 | Phenylpropanoid |
| allo-Aromadendrene | 0.02 | Sesquiterpene |
| (*E*)-β-Farnesene | 0.01 | Sesquiterpene |
| Germacrene D | 0.01 | Sesquiterpene |
| ar-Curcumene | 0.03 | Sesquiterpene |
| Viridiflorene | 0.01 | Sesquiterpene |
| Bicyclogermacrene | 0.01 | Sesquiterpene |
| α-Muurolene | 0.01 | Sesquiterpene |
| 2,3-Epoxycinnamyl acetate I? | 0.01 | Phenylpropanoid ester |
| γ-Cadinene | 0.02 | Sesquiterpene |
| Cubebol | 0.02 | Sesquiterpenic alcohol |
| *trans*-Calamenene | 0.03 | Sesquiterpene |
| δ-Cadinene | 0.06 | Sesquiterpene |
| (*E*)-*ortho*-Methoxycinnamal | 0.13 | Phenylpropanoid |
| Eugenyl acetate | 0.02 | Phenylpropanoid ester |
| α-Calacorene | 0.02 | Sesquiterpene |

| | | |
|---|---|---|
| Isocaryophyllene epoxide B | 0.03 | Sesquiterpenic ether |
| Unknown | 0.01 | Phenylpropanoid |
| Caryophyllenyl alcohol | 0.04 | Sesquiterpenic alcohol |
| Spathulenol | 0.01 | Sesquiterpenic alcohol |
| Caryophyllene oxide | 0.33 | Sesquiterpenic ether |
| Caryophyllene oxide isomer | 0.02 | Sesquiterpenic ether |
| Humulene epoxide II | 0.06 | Sesquiterpenic ether |
| Tetradecanal | 0.10 | Aliphatic aldehyde |
| 1-epi-Cubenol | 0.01 | Sesquiterpenic alcohol |
| Caryophylladienol I? | 0.02 | Sesquiterpenic alcohol |
| Caryophylladienol II | 0.02 | Sesquiterpenic alcohol |
| τ-Cadinol | 0.01 | Sesquiterpenic alcohol |
| (3*Z*)-Caryophylla-3,8(13)-dien-5β-ol | 0.03 | Sesquiterpenic alcohol |
| Benzyl benzoate | 0.41 | Phenolic ester |
| Unknown | 0.01 | Unknown |
| Unknown | 0.09 | Unknown |
| Unknown | 0.05 | Unknown |
| **Consolidated total** | **99.15** | |

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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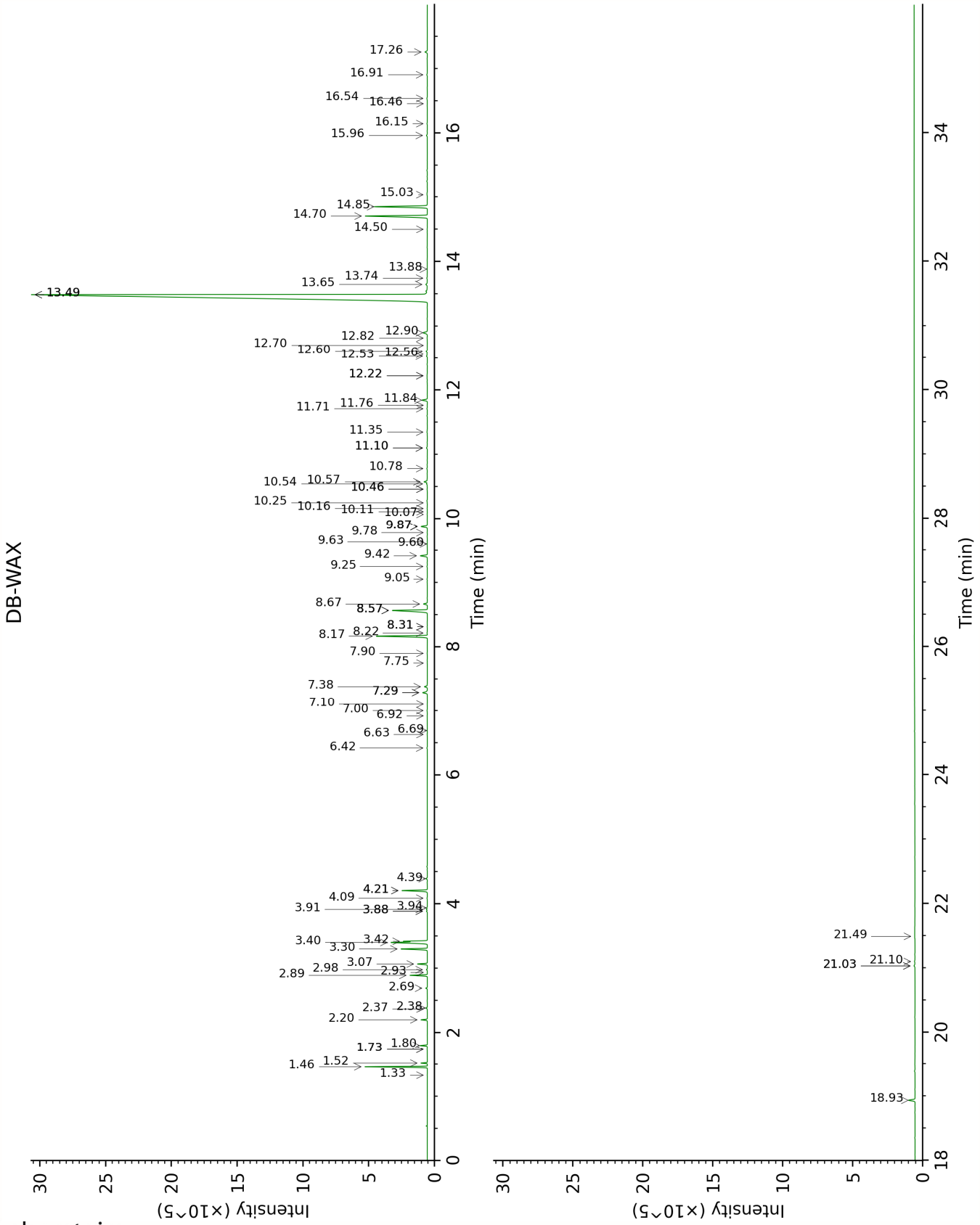
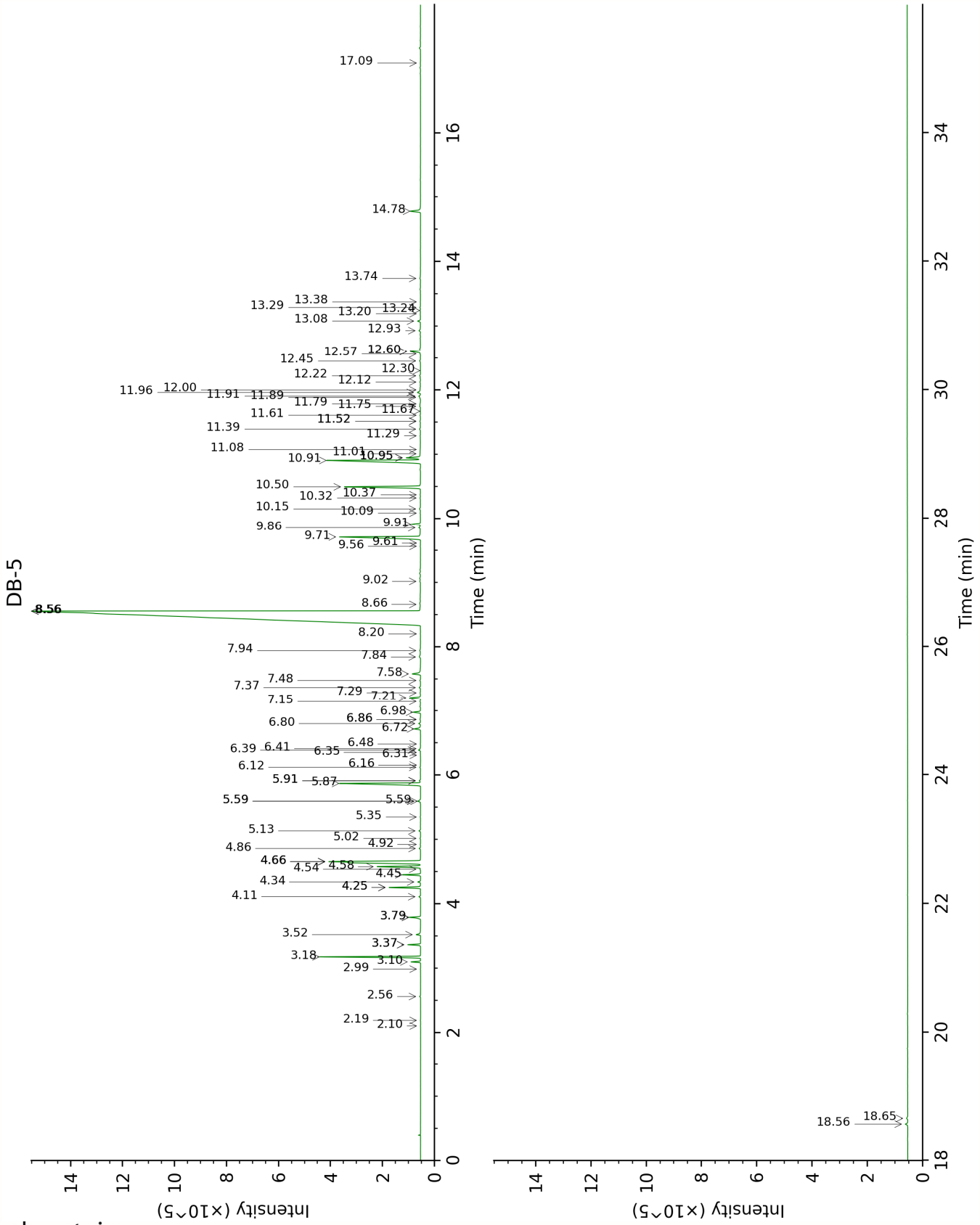

DB-WAX
Time (min)
Intensity (×10^5)
17.26
16.91
16.54
16.46
16.15
15.96
15.03
14.85
14.70
14.50
13.88
13.74
13.65
13.49
12.90
12.82
12.70
12.60
12.56
12.53
12.22
11.84
11.76
11.71
11.35
11.10
10.78
10.57
10.54
10.46
10.25
10.16
10.11
10.07
9.87
9.78
9.63
9.60
9.42
9.25
9.05
8.67
8.57
8.31
8.22
8.17
7.90
7.75
7.38
7.29
7.10
7.00
6.92
6.69
6.63
6.42
4.39
4.21
4.09
3.94
3.91
3.88
3.42
3.40
3.30
3.07
2.98
2.93
2.89
2.69
2.38
2.37
2.20
1.80
1.73
1.52
1.46
1.33
21.49
21.10
21.03
18.93


DB-5
17.09
14.78
13.74
13.38
13.29
13.20
13.24
13.08
12.93
12.60
12.57
12.45
12.30
12.22
12.12
12.00
11.96
11.91
11.89
11.79
11.75
11.67
11.61
11.52
11.39
11.29
11.08
11.01
10.95
10.91
10.50
10.37
10.32
10.15
10.09
9.91
9.86
9.71
9.61
9.56
9.02
8.66
8.56
8.20
7.94
7.84
7.58
7.48
7.37
7.29
7.21
7.15
6.98
6.86
6.80
6.72
6.48
6.41
6.39
6.35
6.31
6.16
6.12
5.91
5.87
5.59
5.59
5.35
5.13
5.02
4.92
4.86
4.66
4.58
4.54
4.45
4.34
4.25
4.11
3.79
3.52
3.37
3.18
3.10
2.99
2.56
2.19
2.10
Time (min)
Intensity (×10^5)
18.65
18.56
Time (min)
Intensity (×10^5)

*FULL ANALYSIS DATA*

| | Column DB-WAX | | | Column DB-5 | | |
|---|---|---|---|---|---|---|
| **Ethyl 2-methylbutyrate** | 1.73* | 1025.0 | [0.01] | 2.10 | 850.1 | tr |
| Ethylbenzene | 2.37 | 1084.7 | 0.01 | 2.19 | 857.3 | 0.01 |
| Styrene | 3.94 | 1207.6 | 0.03 | 2.56 | 887.7 | 0.03 |
| Tricyclene | 1.33 | 975.4 | 0.01 | 2.99 | 919.2 | 0.01 |
| α-Thujene | 1.52 | 1003.5 | 0.23 | 3.10 | 926.6 | 0.23 |
| α-Pinene | 1.46 | 995.0 | 2.42 | 3.18 | 931.7 | 2.44 |
| Camphene | 1.80 | 1031.2 | 0.30 | 3.37* | 944.1 | [0.31] |
| α-Fenchene | 1.73* | 1025.0 | [0.01] | 3.37* | 944.1 | [0.31] |
| Benzaldehyde | 7.38 | 1457.0 | 0.17 | 3.52 | 954.4 | 0.16 |
| β-Pinene | 2.20 | 1068.9 | 0.28 | 3.79* | 972.1 | [0.35] |
| Sabinene | 2.38 | 1086.1 | 0.07 | 3.79* | 972.1 | [0.35] |
| Myrcene | 2.98 | 1135.0 | 0.04 | 4.11 | 993.2 | 0.05 |
| Pseudolimonene | 2.93 | 1131.7 | tr | 4.26* | 1002.6 | [0.84] |
| α-Phellandrene | 2.89 | 1128.3 | 0.82 | 4.26* | 1002.6 | [0.84] |
| Δ3-Carene | 2.69 | 1113.2 | 0.07 | 4.34 | 1008.1 | 0.08 |
| α-Terpinene | 3.07 | 1141.7 | 0.47 | 4.45 | 1015.1 | 0.47 |
| *meta*-Cymene | 4.21* | 1226.7 | [1.35] | 4.54 | 1020.5 | 0.02 |
| *para*-Cymene | 4.21* | 1226.7 | [1.35] | 4.58 | 1022.9 | 1.34 |
| β-Phellandrene | 3.40 | 1167.0 | 2.33 | 4.66* | 1027.8 | [4.71] |
| Limonene | 3.30 | 1159.4 | 1.37 | 4.66* | 1027.8 | [4.71] |
| 1,8-Cineole | 3.42 | 1168.4 | 0.95 | 4.66* | 1027.8 | [4.71] |
| (*Z*)-β-Ocimene | 3.88* | 1203.8 | [0.05] | 4.86 | 1040.6 | 0.04 |
| Butyl 2-methylbutyrate | 3.88* | 1203.8 | [0.05] | 4.92 | 1044.6 | 0.01 |
| (*E*)-β-Ocimene | 4.09 | 1218.3 | 0.02 | 5.02 | 1050.4 | 0.02 |
| γ-Terpinene | 3.91 | 1206.0 | 0.05 | 5.13 | 1057.7 | 0.05 |
| *cis*-Linalool oxide (fur.) | 6.63 | 1400.7 | 0.01 | 5.35 | 1071.1 | 0.01 |
| *para*-Cymenene | 6.42 | 1385.5 | 0.03 | 5.59* | 1086.5 | [0.11] |
| Terpinolene | 4.39 | 1239.9 | 0.07 | 5.59* | 1086.5 | [0.11] |
| *trans*-Linalool oxide (fur.) | 7.00 | 1428.4 | 0.02 | 5.59* | 1086.5 | [0.11] |
| Linalool | 8.17 | 1516.4 | 2.95 | 5.87 | 1103.8 | 2.95 |
| (3*E*)-2,7-Dimethyl-3,6-octadien-2-ol | 8.31* | 1527.9 | [0.01] | 5.91* | 1106.4 | [0.04] |
| Phenylethyl alcohol | 12.22* | 1846.3 | [0.04] | 5.91* | 1106.4 | [0.04] |
| *cis-para*-Menth-2-en-1-ol | 8.22 | 1520.2 | 0.02 | 6.12 | 1119.7 | 0.02 |
| α-Campholenal | 7.10 | 1436.0 | 0.01 | 6.16 | 1121.9 | 0.01 |
| Cosmene | 6.69 | 1405.1 | 0.01 | 6.31 | 1131.6 | 0.01 |
| *trans*-Pinocarveol | 9.25 | 1601.4 | 0.03 | 6.35 | 1134.4 | 0.01 |
| Camphor | 7.29* | 1450.0 | [0.34] | 6.39 | 1136.7 | 0.06 |

| | | | | | | |
|---|---|---|---|---|---|---|
| *trans*-Sabinol | 9.87* | 1652.5 | [0.39] | 6.41 | 1138.2 | 0.02 |
| Camphene hydrate | 8.57* | 1547.7 | [2.54] | 6.48 | 1142.8 | 0.01 |
| Hydrocinnamal | 10.58 | 1710.9 | 0.21 | 6.72 | 1157.7 | 0.23 |
| Borneol | 9.87* | 1652.5 | [0.39] | 6.80 | 1163.1 | 0.06 |
| 3-Methylbenzofuran? | 10.25 | 1683.8 | 0.01 | 6.86* | 1167.1 | [0.03] |
| Benzyl acetate | 10.07 | 1668.9 | 0.01 | 6.86* | 1167.1 | [0.03] |
| Terpinen-4-ol | 8.67 | 1555.6 | 0.23 | 6.98 | 1174.3 | 0.23 |
| *para*-Cymen-8-ol | 11.71 | 1799.7 | 0.03 | 7.15 | 1185.2 | 0.03 |
| α-Terpineol | 9.87* | 1652.5 | [0.39] | 7.21 | 1189.0 | 0.33 |
| *cis*-Piperitol | 9.60 | 1630.0 | 0.01 | 7.28 | 1194.0 | 0.02 |
| *cis*-α-Phellandrene epoxide (iPr vs Me) | 11.10* | 1756.5 | [0.06] | 7.37 | 1199.3 | 0.04 |
| *trans*-Piperitol | 10.46* | 1701.4 | [0.02] | 7.48 | 1206.5 | 0.02 |
| (*Z*)-Cinnamal | 11.84 | 1811.8 | 0.34 | 7.58 | 1213.3 | 0.36 |
| Hydrocinnamyl alcohol | 13.65 | 1978.9 | 0.10 | 7.84 | 1230.9 | 0.07 |
| *ortho*-Anisaldehyde | 12.56 | 1877.1 | 0.03 | 7.94 | 1237.5 | 0.04 |
| Phenylethyl acetate | 11.10* | 1756.5 | [0.06] | 8.20 | 1254.8 | 0.01 |
| Chavicol | 16.54 | 2269.6 | 0.04 | 8.56* | 1278.4 | [70.63] |
| (*E*)-Cinnamal | 13.49* | 1963.9 | [70.17] | 8.56* | 1278.4 | [70.63] |
| Safrole | 11.76 | 1804.5 | 0.01 | 8.66 | 1285.4 | tr |
| (*E*)-Cinnamyl alcohol | 15.96 | 2209.0 | 0.06 | 9.02 | 1309.5 | 0.03 |
| α-Cubebene | 6.92 | 1422.3 | 0.01 | 9.56 | 1348.0 | 0.01 |
| Hydrocinnamic acid | | | | 9.61 | 1351.5 | tr |
| Eugenol | 14.85 | 2095.9 | 3.26 | 9.71 | 1358.2 | 3.22 |
| Hydrocinnamyl acetate | 12.53 | 1874.2 | 0.05 | 9.86 | 1368.5 | 0.05 |
| α-Copaene | 7.29* | 1450.0 | [0.34] | 9.91 | 1372.6 | 0.28 |
| β-Cubebene | 7.90 | 1495.9 | 0.02 | 10.09 | 1385.0 | 0.01 |
| β-Elemene | 8.57* | 1547.7 | [2.54] | 10.15 | 1389.6 | 0.04 |
| Isocaryophyllene | 8.31* | 1527.9 | [0.01] | 10.32 | 1401.6 | 0.02 |
| α-Gurjunene | 7.75 | 1484.4 | 0.01 | 10.37 | 1405.1 | 0.01 |
| β-Caryophyllene | 8.57* | 1547.7 | [2.54] | 10.50 | 1414.3 | 2.53 |
| (*E*)-Cinnamyl acetate | 14.70 | 2081.7 | 4.20 | 10.91*† | 1444.8 | [4.18] |
| α-Humulene | 9.42 | 1614.9 | 0.44 | 10.95*† | 1447.8 | [0.53] |
| (*E*)-Cinnamic acid | 21.49 | 2840.1 | 0.16 | 10.95*† | 1447.8 | [0.53] |
| allo-Aromadendrene | 9.05 | 1585.9 | 0.02 | 11.01 | 1452.5 | 0.02 |
| (*E*)-β-Farnesene | 9.63 | 1632.7 | 0.01 | 11.08 | 1457.3 | 0.01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Germacrene D | 9.87* | 1652.5 | [0.39] | 11.29 | 1473.1 | 0.01 |
| ar-Curcumene | 10.78 | 1728.8 | 0.04 | 11.39 | 1480.9 | 0.03 |
| Viridiflorene | 9.78 | 1644.7 | 0.01 | 11.52* | 1490.0 | [0.02] |
| Bicyclogermacrene | 10.11 | 1672.3 | 0.01 | 11.52* | 1490.0 | [0.02] |
| α-Muurolene | 10.16 | 1676.4 | 0.01 | 11.61 | 1497.0 | 0.01 |
| 2,3-Epoxycinnamyl acetate I? | 16.46 | 2260.9 | 0.01 | 11.67 | 1501.6 | 0.01 |
| γ-Cadinene | 10.46* | 1701.4 | [0.02] | 11.75 | 1507.3 | 0.02 |
| Cubebol | 12.70 | 1890.0 | 0.01 | 11.79 | 1510.4 | 0.02 |
| *trans*-Calamenene | 11.35 | 1767.9 | 0.03 | 11.89 | 1518.3 | 0.03 |
| δ-Cadinene | 10.54 | 1708.2 | 0.05 | 11.91 | 1519.8 | 0.06 |
| (*E*)-*ortho*-Methoxycinnamal | 17.26 | 2346.6 | 0.16 | 11.96 | 1524.3 | 0.13 |
| Eugenyl acetate | | | | 12.00 | 1527.4 | 0.02 |
| α-Calacorene | 12.22* | 1846.3 | [0.04] | 12.12 | 1536.9 | 0.02 |
| Isocaryophyllene epoxide B | | | | 12.22 | 1544.6 | 0.03 |
| Unknown SYAR III [m/z 180, 93 (70), 55 (62), 77 (55), 164 (55), 103 (50)] | 21.03* | 2783.0 | [0.09] | 12.30 | 1550.9 | 0.01 |
| Caryophyllenyl alcohol | 13.74 | 1988.1 | 0.03 | 12.45 | 1562.8 | 0.04 |
| Spathulenol | 14.50 | 2061.6 | 0.02 | 12.57 | 1571.5 | 0.01 |
| Caryophyllene oxide | 12.90 | 1908.2 | 0.33 | 12.60* | 1574.4 | [0.34] |
| Caryophyllene oxide isomer | 12.82 | 1900.3 | 0.02 | 12.60* | 1574.4 | [0.34] |
| Humulene epoxide II | 13.49* | 1963.9 | [70.17] | 12.93 | 1600.2 | 0.06 |
| Tetradecanal | 12.60 | 1880.8 | 0.08 | 13.08 | 1612.2 | 0.10 |
| 1-epi-Cubenol | 13.88 | 2001.3 | 0.01 | 13.20 | 1621.7 | 0.01 |
| Caryophylladienol I? | | | | 13.24 | 1625.7 | 0.02 |
| Caryophylladienol II | 16.15 | 2228.3 | 0.03 | 13.29 | 1629.6 | 0.02 |
| τ-Cadinol | 15.03 | 2114.2 | 0.02 | 13.38 | 1636.7 | 0.01 |
| (3*Z*)-Caryophylla-3,8(13)-dien-5β-ol | 16.91 | 2308.2 | 0.04 | 13.74 | 1666.6 | 0.03 |
| Benzyl benzoate | 18.93 | 2533.0 | 0.43 | 14.78 | 1754.8 | 0.41 |
| Unknown CIZE I [m/z 93, 92 (57), 136 (34), 91 (23), 77 (13), 134 (11)...] | | | | 17.09 | 1964.9 | 0.01 |
| Unknown CIZE II | 21.03* | 2783.0 | [0.09] | 18.56 | 2109.3 | 0.09 |

| | | | | | | |
|---|---|---|---|---|---|---|
| [m/z 69, 91 (57), 41 (49), 181 (32), 169 (25), 167 (22)...] | | | | | | |
| Unknown CIZE III [m/z 69, 91 (56), 41 (49), 169 (34), 239 (28), 93 (23)...] | 21.10 | 2791.3 | 0.04 | 18.65 | 2118.5 | 0.05 |
| Total reported | | 98.51% | | | 99.11% | |
| | | | | | | |

*: 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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