**Date :** 2023-07-13

# *Certificate of Analysis - GC Profiling*

## *Sample Identification*

**Internal code :** 23G04-NPA01
**Customer Identification :** RM - EO - Lemongrass - AF - Zambia - NPS00081 - NP0184
**Type :** Essential Oil
**Source :** *Cymbopogon citratus*
**Customer :** Nature Packaged

Checked an approved by:

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

*Notes: 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.*

This report is an update from the first version issued on July 11, 2023, to format it for online publication.



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 :** Amélie Simard, Analyste
**Date :** 2023-07-10

## *Physicochemical data*

**Physical aspect :** Light yellow liquid
**Analyst :** Cindy Caron B. Sc.
**Date :** 2023-07-05

**Refractive index :** 1.4874 ± 0.0003 (20 °C)
**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.
**Analyst :** Cindy Caron B. Sc.
**Date :** 2023-07-05

## *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 |
|---|---|---|
| Isobutyral | tr | Aliphatic aldehyde |
| 2-Methyl-3-buten-2-ol | 0.05 | Aliphatic alcohol |
| Isovaleral | 0.01 | Aliphatic aldehyde |
| 2-Methylbutyral | tr | Aliphatic aldehyde |
| Isoamyl alcohol | tr | Aliphatic alcohol |
| Unknown | 0.01 | Unknown |
| Unknown | tr | Unknown |
| (*E*)-2,4-Dimethyl-2,4-heptadiene | 0.04 | Alkene |
| Tricyclene | 0.01 | Monoterpene |
| α-Pinene | 0.03 | Monoterpene |
| Camphene | 0.02 | Monoterpene |
| Sabinene | 0.02 | Monoterpene |
| β-Pinene | tr | Monoterpene |
| Myrcene | 11.21 | Monoterpene |
| 6-Methyl-5-hepten-2-one | 1.60 | Aliphatic ketone |
| 6-Methyl-5-hepten-2-ol | 0.01 | Aliphatic alcohol |
| Octanal | 0.01 | Aliphatic aldehyde |
| α-Phellandrene | tr | Monoterpene |
| Δ3-Carene | 0.01 | Monoterpene |
| α-Terpinene | 0.01 | Monoterpene |
| *para*-Cymene | 0.02 | Monoterpene |
| Limonene | 0.03 | Monoterpene |
| 1,8-Cineole | 0.02 | Monoterpenic ether |
| (*Z*)-β-Ocimene | 0.39 | Monoterpene |
| (*E*)-β-Ocimene | 0.28 | Monoterpene |
| 2,6-Dimethyl-5-heptenal (melonal) | 0.04 | Aliphatic aldehyde |
| γ-Terpinene | 0.01 | Monoterpene |
| *cis*-Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| Camphenilone | 0.01 | Normonoterpenic ketone |
| Terpinolene | 0.03 | Monoterpene |
| 4-Nonanol | 0.10 | Aliphatic alcohol |
| Rosefuran | 0.19 | Monoterpenic ether |
| Perillene | 0.25 | Monoterpenic ether |
| Linalool | 0.96 | Monoterpenic alcohol |
| *cis*-Chrysanthemal? | 0.10 | Monoterpenic aldehyde |
| *trans-para*-Mentha-2,8-dien-1-ol | 0.05 | Monoterpenic alcohol |
| Unknown | 0.20 | Unknown |
| Unknown | 0.01 | Unknown |
| *trans*-Chrysanthemal | 0.29 | Monoterpenic aldehyde |
| exo-Isocitral | 0.10 | Monoterpenic aldehyde |

| | | |
|---|---|---|
| Citronellal | 0.29 | Monoterpenic aldehyde |
| Borneol | 0.05 | Monoterpenic alcohol |
| α-Phellandren-8-ol | 0.08 | Monoterpenic alcohol |
| Isoneral | 0.82 | Monoterpenic aldehyde |
| Rosefuran oxide | 0.08 | Monoterpenic ether |
| Unknown | 0.17 | Oxygenated monoterpene |
| Isogeranial | 1.47 | Monoterpenic aldehyde |
| α-Terpineol | 0.02 | Monoterpenic alcohol |
| Unknown | 0.16 | Unknown |
| *trans*-Isopiperitenol | 0.05 | Monoterpenic alcohol |
| Unknown | 0.09 | Oxygenated monoterpene |
| Decanal | 0.02 | Aliphatic aldehyde |
| *cis*-Isopiperitenol | 0.04 | Monoterpenic alcohol |
| 2,3-Epoxyneral? | 0.05 | Monoterpenic aldehyde |
| Nerol | 0.17 | Monoterpenic alcohol |
| Citronellol | 0.30 | Monoterpenic alcohol |
| Neral | 32.51 | Monoterpenic aldehyde |
| Piperitone | 0.04 | Monoterpenic ketone |
| Geraniol | 1.96 | Monoterpenic alcohol |
| Geranial | 41.61 | Monoterpenic aldehyde |
| Unknown | 0.17 | Oxygenated monoterpene |
| 2-Undecanone | 0.35 | Aliphatic ketone |
| Geranyl formate | 0.07 | Monoterpenic ester |
| Unknown | 0.05 | Unknown |
| Citronellyl acetate | 0.07 | Monoterpenic ester |
| Geranic acid | 0.15 | Aliphatic acid |
| α-Copaene | 0.15 | Sesquiterpene |
| β-Bourbonene | 0.02 | Sesquiterpene |
| Geranyl acetate | 0.25 | Monoterpenic ester |
| β-Elemene | 0.03 | Sesquiterpene |
| Longifolene | 0.03 | Sesquiterpene |
| β-Caryophyllene | 0.15 | Sesquiterpene |
| *trans*-α-Bergamotene | 0.13 | Sesquiterpene |
| α-Humulene | 0.02 | Sesquiterpene |
| *cis*-Muurola-4(15),5-diene | 0.04 | Sesquiterpene |
| Germacrene D | 0.02 | Sesquiterpene |
| α-Muurolene | 0.27 | Sesquiterpene |
| γ-Cadinene | 0.02 | Sesquiterpene |
| δ-Cadinene | 0.02 | Sesquiterpene |
| (*E*)-γ-Bisabolene | 0.01 | Sesquiterpene |
| Caryophyllene oxide isomer | 0.01 | Sesquiterpenic ether |
| Caryophyllene oxide | 0.03 | Sesquiterpenic ether |
| Humulene epoxide II | 0.02 | Sesquiterpenic ether |
| Selin-6-en-4α-ol isomer | 0.02 | Sesquiterpenic alcohol |
| Unknown | 0.03 | Oxygenated sesquiterpene |

| | | |
|---|---|---|
| (2*Z*,6*Z*)-Farnesol | 0.02 | Sesquiterpenic alcohol |
| (2*E*,6*E*)-Farnesal | 0.02 | Sesquiterpenic aldehyde |
| Phytone | 0.02 | Terpenic ketone |
| *meta*-Camphorene | 0.18 | Diterpene |
| *para*-Camphorene | 0.09 | Diterpene |
| Unknown | 0.01 | Unknown |
| Unknown | 0.02 | Unknown |
| Unknown | 0.02 | Unknown |
| Unknown | 0.02 | Unknown |
| Dicitral | 0.03 | Diterpenic aldehyde |
| Unknown | 0.03 | Unknown |
| Phytol isomer I | 0.02 | Diterpenic alcohol |
| Unknown | 0.02 | Unknown |
| **Consolidated total** | **98.79** | |

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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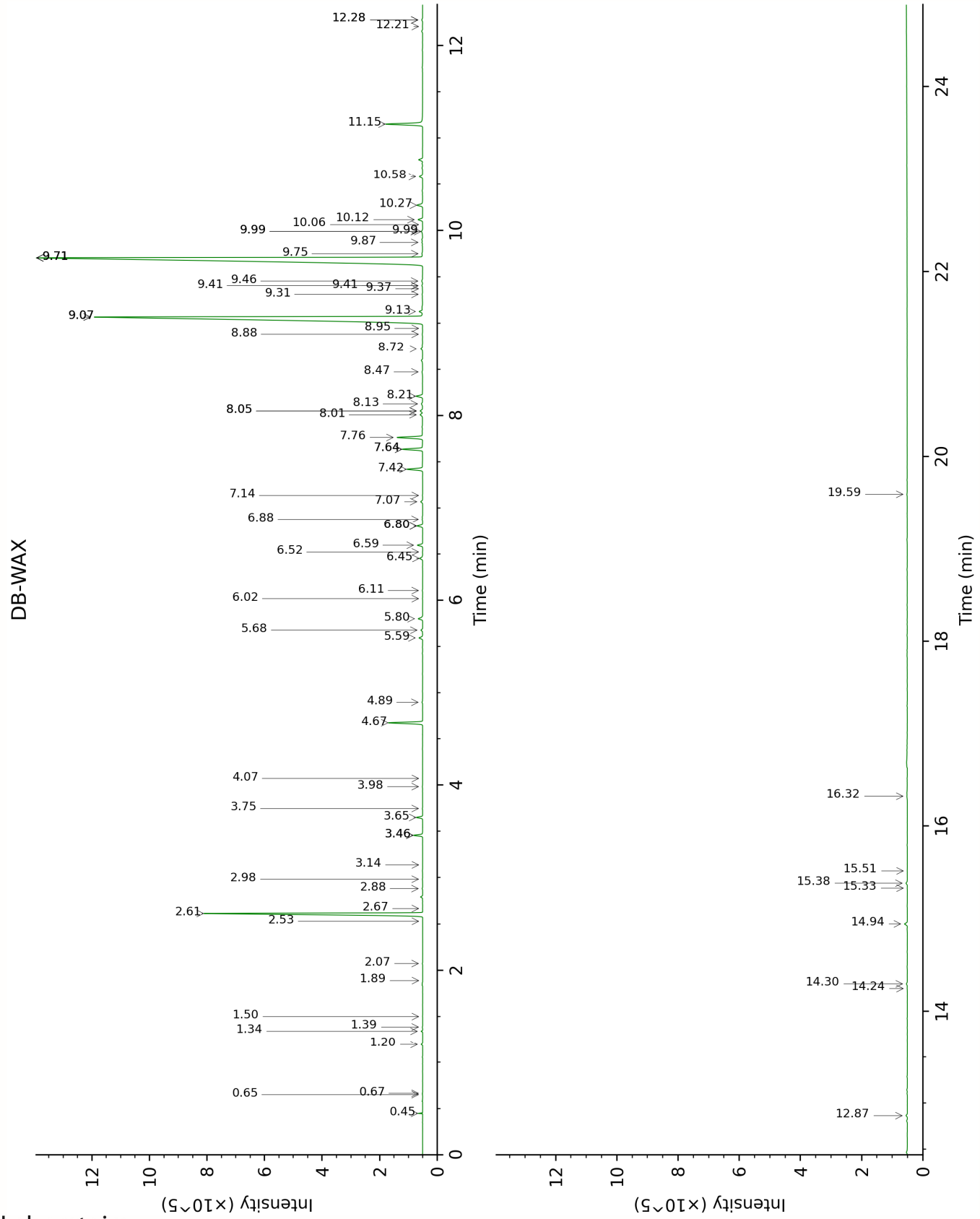
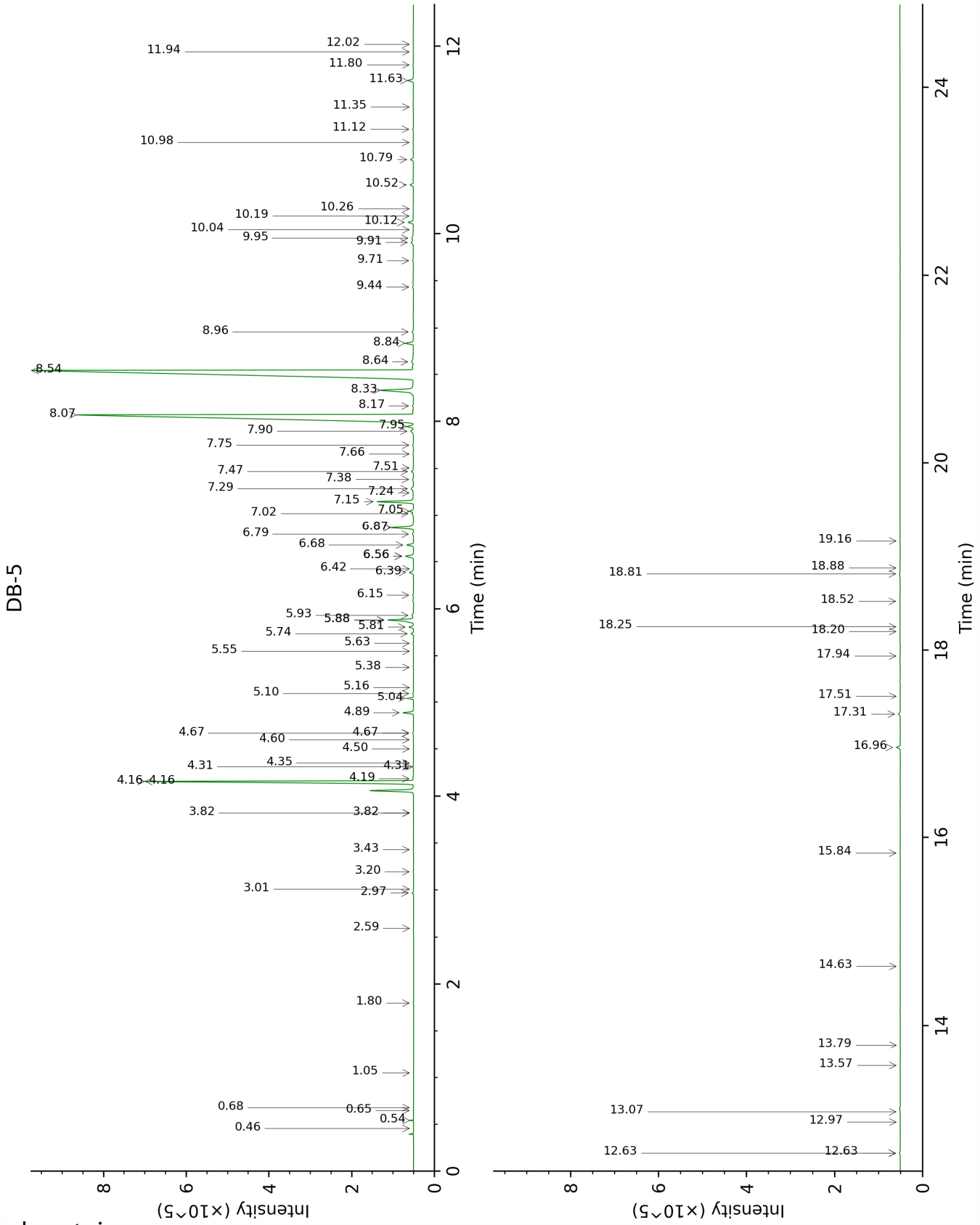

DB-WAX
Time (min)
Intensity (×10^5)
12.28
12.21
11.15
10.58
10.27
10.06
10.12
9.99
9.99
9.87
9.75
9.71
9.41
9.46
9.41
9.37
9.31
9.13
9.07
8.95
8.88
8.72
8.47
8.21
8.13
8.05
8.01
7.76
7.64
7.42
7.14
7.07
6.88
6.80
6.59
6.52
6.45
6.11
6.02
5.80
5.68
5.59
4.89
4.67
4.07
3.98
3.75
3.65
3.46
3.14
2.98
2.88
2.67
2.61
2.53
2.07
1.89
1.50
1.39
1.34
1.20
0.67
0.65
0.45
19.59
16.32
15.51
15.38
15.33
14.94
14.30
14.24
12.87


DB-5
Intensity (×10^5)
Time (min)
11.94
12.02
11.80
11.63
11.35
11.12
10.98
10.79
10.52
10.26
10.19
10.12
10.04
9.95
9.91
9.71
9.44
8.96
8.84
8.64
8.54
8.33
8.17
8.07
7.95
7.90
7.75
7.66
7.51
7.47
7.38
7.29
7.24
7.15
7.05
7.02
6.87
6.79
6.68
6.56
6.42
6.39
6.15
5.93
5.88
5.81
5.74
5.63
5.55
5.38
5.16
5.10
5.04
4.89
4.67
4.67
4.60
4.50
4.35
4.33
4.31
4.19
4.16
4.16
3.82
3.82
3.43
3.20
3.01
2.97
2.59
1.80
1.05
0.68
0.65
0.54
0.46
19.16
18.88
18.81
18.52
18.25
18.20
17.94
17.51
17.31
16.96
15.84
14.63
13.79
13.57
13.07
12.97
12.63
12.63

*FULL ANALYSIS DATA*

| | Column DB-WAX | | | Column DB-5 | | |
|---|---|---|---|---|---|---|
| **Isobutyral** | 0.45 | 781.6 | 0.07 | 0.46 | 538.8 | tr |
| 2-Methyl-3-buten-2-ol | 1.34 | 1011.2 | 0.05 | 0.54 | 605.7 | 0.05 |
| Isovaleral | 0.67 | 884.0 | 0.01 | 0.65 | 640.5 | 0.01 |
| 2-Methylbutyral | 0.65 | 878.5 | tr | 0.68 | 651.1 | tr |
| Isoamyl alcohol | 3.14 | 1177.4 | 0.01 | 1.05 | 732.8 | tr |
| Unknown PEGR III [m/z 81, 69 (80), 41 (65), 83 (52), 109 (48), 55 (47)...] | | | | 1.80 | 822.9 | 0.01 |
| Unknown CULE I [m/z 69, 41 (57), 81 (57), 80 (18), 79 (18), 67 (17)...] | | | | 2.59 | 887.8 | tr |
| (*E*)-2,4-Dimethyl-2,4-heptadiene | 1.39 | 1016.0 | 0.02 | 2.97 | 915.8 | 0.04 |
| Tricyclene | | | | 3.01 | 918.5 | 0.01 |
| α-Pinene | 1.20 | 989.3 | 0.06 | 3.20 | 930.7 | 0.03 |
| Camphene | 1.50 | 1027.4 | tr | 3.43 | 946.2 | 0.02 |
| Sabinene | 2.07 | 1086.4 | 0.02 | 3.82* | 971.7 | [0.02] |
| β-Pinene | 1.89 | 1067.3 | tr | 3.82* | 971.7 | [0.02] |
| Myrcene | 2.61 | 1134.5 | 11.21 | 4.16* | 993.8 | [12.95] |
| 6-Methyl-5-hepten-2-one | 4.67 | 1297.8 | 1.60 | 4.16* | 993.8 | [12.95] |
| 6-Methyl-5-hepten-2-ol | 6.52 | 1428.7 | 0.01 | 4.19 | 995.7 | 0.01 |
| Octanal | 4.07 | 1251.2 | 0.01 | 4.31* | 1004.0 | [0.03] |
| α-Phellandrene | 2.53 | 1127.7 | tr | 4.31* | 1004.0 | [0.03] |
| Δ3-Carene | | | | 4.35 | 1006.6 | 0.01 |
| α-Terpinene | 2.67 | 1138.9 | 0.01 | 4.50 | 1015.9 | 0.01 |
| *para*-Cymene | 3.75 | 1226.3 | 0.02 | 4.60 | 1022.0 | 0.02 |
| Limonene | 2.88 | 1156.4 | 0.03 | 4.67* | 1026.5 | [0.05] |
| 1,8-Cineole | 2.98 | 1164.8 | 0.02 | 4.67* | 1026.5 | [0.05] |
| (*Z*)-β-Ocimene | 3.46* | 1203.8 | [0.41] | 4.89 | 1040.0 | 0.39 |
| (*E*)-β-Ocimene | 3.65 | 1218.9 | 0.28 | 5.04 | 1049.8 | 0.28 |
| 2,6-Dimethyl-5-heptenal (melonal) | 4.89 | 1309.2 | 0.04 | 5.10 | 1053.2 | 0.04 |
| γ-Terpinene | 3.46* | 1203.8 | [0.41] | 5.16 | 1057.2 | 0.01 |
| *cis*-Linalool oxide (fur.) | 6.11 | 1397.7 | 0.02 | 5.38 | 1070.6 | 0.02 |
| Camphenilone | 6.02 | 1391.3 | 0.01 | 5.55 | 1081.4 | 0.01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Terpinolene | 3.98 | 1244.4 | 0.02 | 5.63 | 1086.6 | 0.03 |
| 4-Nonanol | | | | 5.74 | 1093.0 | 0.10 |
| Rosefuran | 5.60 | 1360.4 | 0.20 | 5.81 | 1097.5 | 0.19 |
| Perillene | 5.80 | 1375.5 | 0.25 | 5.88* | 1102.1 | [1.21] |
| Linalool | 7.64* | 1512.7 | [1.03] | 5.88* | 1102.1 | [1.21] |
| *cis*-Chrysanthemal? | 5.68 | 1366.5 | 0.08 | 5.93 | 1105.2 | 0.10 |
| *trans-para*-Mentha-2,8-dien-1-ol | 8.47 | 1578.4 | 0.05 | 6.15 | 1118.9 | 0.05 |
| Unknown CYFL III [m/z 81, 70 (98), 67 (63), 82 (53), 41 (46), 69 (46), 109 (43)...] | 6.45 | 1423.4 | 0.18 | 6.39 | 1134.3 | 0.20 |
| Unknown CYFL IV [m/z 95, 67 (86), 41 (68), 82 (64), 123 (62)...] | | | | 6.42 | 1136.7 | 0.01 |
| *trans*-Chrysanthemal | 6.80* | 1449.8 | [0.29] | 6.56* | 1145.3 | [0.40] |
| *exo*-Isocitral | 7.07 | 1470.0 | 0.10 | 6.56* | 1145.3 | [0.40] |
| Citronellal | 6.60 | 1434.1 | 0.27 | 6.68 | 1152.9 | 0.29 |
| Borneol | 9.31 | 1646.3 | 0.04 | 6.80 | 1160.2 | 0.05 |
| α-Phellandren-8-ol | 9.75 | 1682.3 | 0.08 | 6.87* | 1164.8 | [0.95] |
| Isoneral | 7.42 | 1496.3 | 0.82 | 6.87* | 1164.8 | [0.95] |
| Rosefuran oxide | 8.13 | 1551.2 | 0.09 | 7.02 | 1174.6 | 0.08 |
| Unknown CYFL V [m/z 84, 83 (74), 137 (56), 41 (47), 93 (43), 108 (40)... 152 (2)] | 9.13 | 1631.1 | 0.20 | 7.05 | 1176.2 | 0.17 |
| Isogeranial | 7.76 | 1522.7 | 1.34 | 7.15 | 1182.7 | 1.47 |
| α-Terpineol | 9.37 | 1651.2 | 0.03 | 7.24 | 1188.7 | 0.02 |
| Unknown DRMO III [m/z 43, 81 (47), 67 (45), 69 944), 41 (42), 59 (40), 55 (39)...] | 8.72 | 1598.2 | 0.14 | 7.28 | 1191.4 | 0.16 |
| *trans*-Isopiperitenol | 9.99* | 1702.0 | [0.10] | 7.38 | 1197.8 | 0.05 |
| Unknown CYFL VI [m/z 84, 41 (83), 83 (79), 91 | 9.71* | 1678.6 | [41.27] | 7.47 | 1203.1 | 0.09 |

| | | | | | | |
|---|---|---|---|---|---|---|
| (76), 93 (67), 119 (64), 137 (63), 109 (54), 108 (54)... 152 (4)] | | | | | | |
| Decanal | 6.88 | 1455.6 | 0.02 | 7.51 | 1205.6 | 0.02 |
| *cis*-Isopiperitenol | 9.87 | 1692.3 | 0.04 | 7.66 | 1215.5 | 0.04 |
| 2,3-Epoxyneral? | | | | 7.75 | 1221.7 | 0.05 |
| Nerol | 10.58 | 1752.6 | 0.19 | 7.90 | 1231.6 | 0.17 |
| Citronellol | 10.27 | 1726.0 | 0.34 | 7.95 | 1235.0 | 0.30 |
| Neral | 9.07* | 1626.2 | [32.17] | 8.07 | 1243.2 | 32.51 |
| Piperitone | 9.41* | 1653.9 | [0.05] | 8.17 | 1249.6 | 0.04 |
| Geraniol | 11.15 | 1802.0 | 2.07 | 8.33 | 1260.7 | 1.96 |
| Geranial | 9.71* | 1678.6 | [41.27] | 8.54 | 1274.8 | 41.61 |
| Unknown CYFL VII [m/z 43, 69 (77), 41 (70), 109 (54)... 152 (6)] | | | | 8.64 | 1281.0 | 0.17 |
| 2-Undecanone | 8.21 | 1557.7 | 0.38 | 8.84 | 1294.6 | 0.35 |
| Geranyl formate | 9.46 | 1658.0 | 0.07 | 8.96 | 1302.7 | 0.07 |
| Unknown CYFL VIII [m/z 82, 59 (44), 41 (43), 95 (31), 43 (29), 81 (24)...] | 12.28* | 1903.0 | [0.06] | 9.44 | 1336.0 | 0.05 |
| Citronellyl acetate | 9.07* | 1626.2 | [32.17] | 9.72 | 1355.7 | 0.07 |
| Geranic acid | | | | 9.91 | 1369.3 | 0.15 |
| α-Copaene | 6.80* | 1449.8 | [0.29] | 9.95 | 1372.5 | 0.15 |
| β-Bourbonene | 7.14 | 1475.0 | 0.02 | 10.04 | 1378.8 | 0.02 |
| Geranyl acetate | 10.12 | 1712.6 | 0.25 | 10.12 | 1384.3 | 0.25 |
| β-Elemene | 8.05* | 1545.2 | [0.16] | 10.19 | 1389.0 | 0.03 |
| Longifolene | 7.64* | 1512.7 | [1.03] | 10.26 | 1394.4 | 0.03 |
| β-Caryophyllene | 8.01 | 1542.0 | 0.17 | 10.52 | 1412.6 | 0.15 |
| *trans*-α-Bergamotene | 8.05* | 1545.2 | [0.16] | 10.79 | 1433.2 | 0.13 |
| α-Humulene | 8.88 | 1610.9 | 0.03 | 10.98 | 1446.8 | 0.02 |
| *cis*-Muurola-4(15),5-diene | 8.95 | 1616.1 | 0.02 | 11.12 | 1457.2 | 0.04 |
| Germacrene D | 9.41* | 1653.9 | [0.05] | 11.35 | 1474.8 | 0.02 |
| α-Muurolene | 9.71* | 1678.6 | [41.27] | 11.64 | 1495.8 | 0.27 |
| γ-Cadinene | 9.99* | 1702.0 | [0.10] | 11.80 | 1508.3 | 0.02 |
| δ-Cadinene | 9.99* | 1702.0 | [0.10] | 11.94 | 1519.2 | 0.02 |
| (*E*)-γ-Bisabolene | 10.06 | 1708.1 | 0.01 | 12.02 | 1525.5 | 0.01 |
| Caryophyllene | 12.21 | 1896.6 | 0.01 | 12.63* | 1573.7 | [0.05] |

| | | | | | | |
|---|---|---|---|---|---|---|
| oxide isomer | | | | | | |
| Caryophyllene oxide | 12.28* | 1903.0 | [0.06] | 12.63* | 1573.7 | [0.05] |
| Humulene epoxide II | 12.86 | 1958.2 | 0.07 | 12.97 | 1599.8 | 0.02 |
| Selin-6-en-4α-ol isomer | 14.30 | 2096.7 | 0.06 | 13.08 | 1608.4 | 0.02 |
| Unknown JUVI XVI [m/z 43, 81 (84), 41 (64), 67 (62), 95 (58), 79 (58)... 204 (48), 220 (2)] | | | | 13.57 | 1649.2 | 0.03 |
| (2*Z*,6*Z*)-Farnesol | 15.51 | 2221.5 | 0.01 | 13.79 | 1667.5 | 0.02 |
| (2*E*,6*E*)-Farnesal | 15.33 | 2202.1 | 0.01 | 14.63 | 1738.4 | 0.02 |
| Phytone | 14.24 | 2091.7 | 0.02 | 15.84 | 1844.6 | 0.02 |
| *meta*-Camphorene | 14.94 | 2162.4 | 0.16 | 16.96 | 1948.6 | 0.18 |
| *para*-Camphorene | 15.38 | 2207.6 | 0.08 | 17.31 | 1982.3 | 0.09 |
| Unknown LICU V [m/z 41, 69 (95), 109 (41), 95 (39), 55 (36), 121 (36)...] | | | | 17.51 | 2001.1 | 0.01 |
| Unknown LICU VII [m/z 69, 41 (94), 81 (42), 109 (39), 107 (33), 43 (31)...] | | | | 17.94 | 2043.4 | 0.02 |
| Unknown CYFL IX [m/z 93, 69 (95), 135 (76), 107 (53), 41 (53), 109 (50)... 235 (10)...] | | | | 18.20 | 2069.2 | 0.02 |
| Unknown LIMU XXI [m/z 57, 85 (55), 163 (47), 41 (44), 120 (35), 202 (30), 145 (25)... 219 (17), 304 (t)] | | | | 18.25 | 2074.2 | 0.02 |
| Dicitral | 16.32 | 2307.7 | 0.05 | 18.52 | 2101.1 | 0.03 |
| Unknown LICU II | 19.59 | 2689.2 | 0.03 | 18.81 | 2131.1 | 0.03 |

| | | | | | | |
|---|---|---|---|---|---|---|
| [m/z 69, 41 (38), 151 (36), 123 (34), 82 (24), 43 (23), 109 (21)...] | | | | | | |
| Phytol isomer I | | | | 18.88 | 2137.5 | 0.02 |
| Unknown CYFL XIII [m/z 94, 43 (85), 93 (81), 69 (76), 137 (76), 95 (60), 134 (51)...] | | | | 19.16 | 2167.4 | 0.02 |
| Total reported | | 97.07% | | | 98.99% | |

*: 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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