

Date : June 07, 2019

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 19E28-PTH05-1-SCC

Customer identification : Ylang Ylang Complete - Madagascar - Y1010994R

Type : Essential oil

Source : *Cananga odorata* var. *genuina* (Ylang-ylang)

Customer : Plant Therapy

ANALYSIS

Method: PC-PA-014 - Analysis of the composition of an essential oil, or other volatile liquid, by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Benoit Roger, Ph. D.

Analysis date : June 04, 2019

Checked and approved by :



Alexis St-Gelais, M. Sc., 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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

PHYSICOCHEMICAL DATA

Physical aspect: Yellow liquid

Refractive index: 1.5072 ± 0.0003 (20 °C)

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 | % | Classe |
|-------------------------------------|------|----------------------|
| Toluene | tr | Simple phenolic |
| Prenol | tr | Aliphatic alcohol |
| Butyl acetate | tr | Aliphatic ester |
| Isoamyl acetate | tr | Aliphatic ester |
| 2-Methylbutyl acetate | tr | Aliphatic ester |
| 3-Methyl-3-butenyl acetate | 0.05 | Aliphatic ester |
| Prenyl acetate | 0.11 | Aliphatic ester |
| α -Pinene | 0.07 | Monoterpene |
| Benzaldehyde | tr | Simple phenolic |
| β -Pinene | 0.02 | Monoterpene |
| 6-Methyl-5-hepten-2-one | 0.01 | Aliphatic ketone |
| Myrcene | 0.02 | Monoterpene |
| (3Z)-Hexenyl acetate | 0.01 | Aliphatic ester |
| para-Methylanisole | 2.14 | Simple phenolic |
| Hexyl acetate | 0.01 | Aliphatic ester |
| Limonene | 0.01 | Monoterpene |
| 1,8-Cineole | 0.02 | Monoterpenic ether |
| Benzyl alcohol | 0.02 | Simple phenolic |
| <i>cis</i> -Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| Terpinolene | 0.01 | Monoterpene |
| <i>trans</i> -Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| Methyl benzoate | 1.20 | Phenolic ester |
| para-Cresol | 0.14 | Simple phenolic |
| Linalool | 2.70 | Monoterpenic alcohol |
| Nonanal | 0.02 | Aliphatic aldehyde |
| ortho-Dimethoxybenzene | 0.02 | Simple phenolic |
| Benzyl acetate | 4.12 | Phenolic ester |
| Ethyl benzoate | 0.01 | Phenolic ester |
| para-Cresyl acetate | 0.01 | Phenolic ester |
| Methyl salicylate | 0.01 | Phenolic ester |
| α -Terpineol | 0.01 | Monoterpenic alcohol |
| Nerol | 0.01 | Monoterpenic alcohol |
| Phenylethyl acetate | 0.01 | Phenolic ester |
| Geraniol | 0.52 | Monoterpenic alcohol |
| (<i>E</i>)-Anethole | 0.05 | Phenylpropanoid |
| 1-Nitro-2-phenylethane | 0.02 | Simple phenolic |
| δ -Elemene | 0.08 | Sesquiterpene |
| Bicycloelemene | tr | Sesquiterpene |
| Benzyl butyrate | 0.01 | Phenolic ester |
| α -Cubebene | 0.17 | Sesquiterpene |
| Eugenol | 0.01 | Phenylpropanoid |
| Neryl acetate | 0.03 | Monoterpenic ester |
| α -Ylangene | 0.12 | Sesquiterpene |
| α -Copaene | 1.26 | Sesquiterpene |
| β -Bourbonene | 0.01 | Sesquiterpene |
| Geranyl acetate | 3.31 | Monoterpenic ester |
| β -Cubebene | 0.37 | Sesquiterpene |

| | | |
|-------------------------------|---------|--------------------------|
| β-Elemene | 0.06 | Sesquiterpene |
| Methyleugenol | 0.02 | Phenylpropanoid |
| β-Caryophyllene | 7.26 | Sesquiterpene |
| Caryophylla-4(12),8(13)-diene | 0.03 | Sesquiterpene |
| β-Copaene | 0.26 | Sesquiterpene |
| Aromadendrene | 0.06 | Sesquiterpene |
| (E)-Cinnamyl acetate | 2.48 | Phenylpropanoid ester |
| Isogermacrene D | 0.07 | Sesquiterpene |
| 9-epi-Isocaryophyllene | 0.05 | Sesquiterpene |
| (E)-Isoeugenol | 0.67 | Phenylpropanoid |
| trans-Muuroala-3,5-diene | 0.12 | Sesquiterpene |
| α-Humulene | 1.88 | Sesquiterpene |
| cis-Cadina-1(6),4-diene | 0.07 | Sesquiterpene |
| cis-Muuroala-4(15),5-diene | 0.14 | Sesquiterpene |
| trans-Cadina-1(6),4-diene | 0.14 | Sesquiterpene |
| Germacrene D | 22.25 | Sesquiterpene |
| γ-Murolene | 1.33 | Sesquiterpene |
| trans-Muuroala-4(15),5-diene | 0.16 | Sesquiterpene |
| γ-Amorphene | 0.21 | Sesquiterpene |
| Prenyl benzoate | 0.09 | Phenolic ester |
| epi-Cubebol | 0.05 | Sesquiterpenic alcohol |
| Bicyclogermacrene | 0.86 | Sesquiterpene |
| (3Z,6E)-α-Farnesene | 0.06 | Sesquiterpene |
| α-Murolene | 0.69 | Sesquiterpene |
| δ-Amorphene | 0.28 | Sesquiterpene |
| Unknown | tr | Sesquiterpene |
| (3E,6E)-α-Farnesene | 18.81 | Sesquiterpene |
| Cubebol | 0.04 | Sesquiterpenic alcohol |
| γ-Cadinene | 0.70 | Sesquiterpene |
| (Z)-γ-Bisabolene | 0.04 | Sesquiterpene |
| trans-Calamenene | 0.03 | Sesquiterpene |
| δ-Cadinene | 2.35* | Sesquiterpene |
| Zonarene | [2.35]* | Sesquiterpene |
| trans-Cadina-1,4-diene | 0.15 | Sesquiterpene |
| α-Cadinene | 0.22 | Sesquiterpene |
| α-Calacorene | 0.03 | Sesquiterpene |
| cis-Dracunculifoliol | 0.04 | Sesquiterpenic alcohol |
| α-Elemol | 0.08 | Sesquiterpenic alcohol |
| Germacrene B | 0.01 | Sesquiterpene |
| β-Calacorene | 0.09 | Sesquiterpene |
| (E)-Nerolidol | 0.05 | Sesquiterpenic alcohol |
| (3Z)-Hexenyl benzoate | 0.03 | Phenolic ester |
| Spathulenol | 0.10 | Sesquiterpenic alcohol |
| Caryophyllene oxide | 0.07 | Sesquiterpenic ether |
| 10-epi-Junenol | 0.08 | Sesquiterpenic alcohol |
| Unknown | 0.03 | Sesquiterpenic alcohol |
| Unknown | 0.06 | Oxygenated sesquiterpene |
| Viridiflorol | 0.05 | Sesquiterpenic alcohol |
| Guaiol | 0.15 | Sesquiterpenic alcohol |
| Copaborneol | 0.03 | Sesquiterpenic alcohol |
| Humulene epoxide II | 0.04 | Sesquiterpenic ether |
| 10-epi-Cubebol | 0.28 | Sesquiterpenic alcohol |

| | | |
|-------------------------------|---------------|--------------------------|
| (E)-Isoeugenyl acetate | 0.05 | Phenylpropanoid ester |
| Junenol | 0.20 | Sesquiterpenic alcohol |
| 1-epi-Cubenol | 0.09 | Sesquiterpenic alcohol |
| τ-Cadinol | 0.40 | Sesquiterpenic alcohol |
| τ-Muurolol | 0.66 | Sesquiterpenic alcohol |
| Cubenol | 0.14 | Sesquiterpenic alcohol |
| α-Muurolol | 0.21 | Sesquiterpenic alcohol |
| α-Cadinol | 1.26 | Sesquiterpenic alcohol |
| <i>trans</i> -Calamemen-10-ol | 0.14 | Sesquiterpenic alcohol |
| Unknown | 0.11 | Oxygenated sesquiterpene |
| (2E,6Z)-Farnesol | 0.01 | Sesquiterpenic alcohol |
| (2E,6E)-Farnesol | 1.54 | Sesquiterpenic alcohol |
| (2E,6E)-Farnesal | 0.01 | Sesquiterpenic aldehyde |
| Benzyl benzoate | 5.72 | Phenolic ester |
| (2E,6E)-Farnesyl acetate | 4.02 | Sesquiterpenic ester |
| Benzyl salicylate | 3.44 | Phenolic ester |
| Geranyl benzoate | 0.01 | Phenolic ester |
| Unknown | 0.17 | Sesquiterpenic alcohol |
| Consolidated total | 97.79% | |

*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered [xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

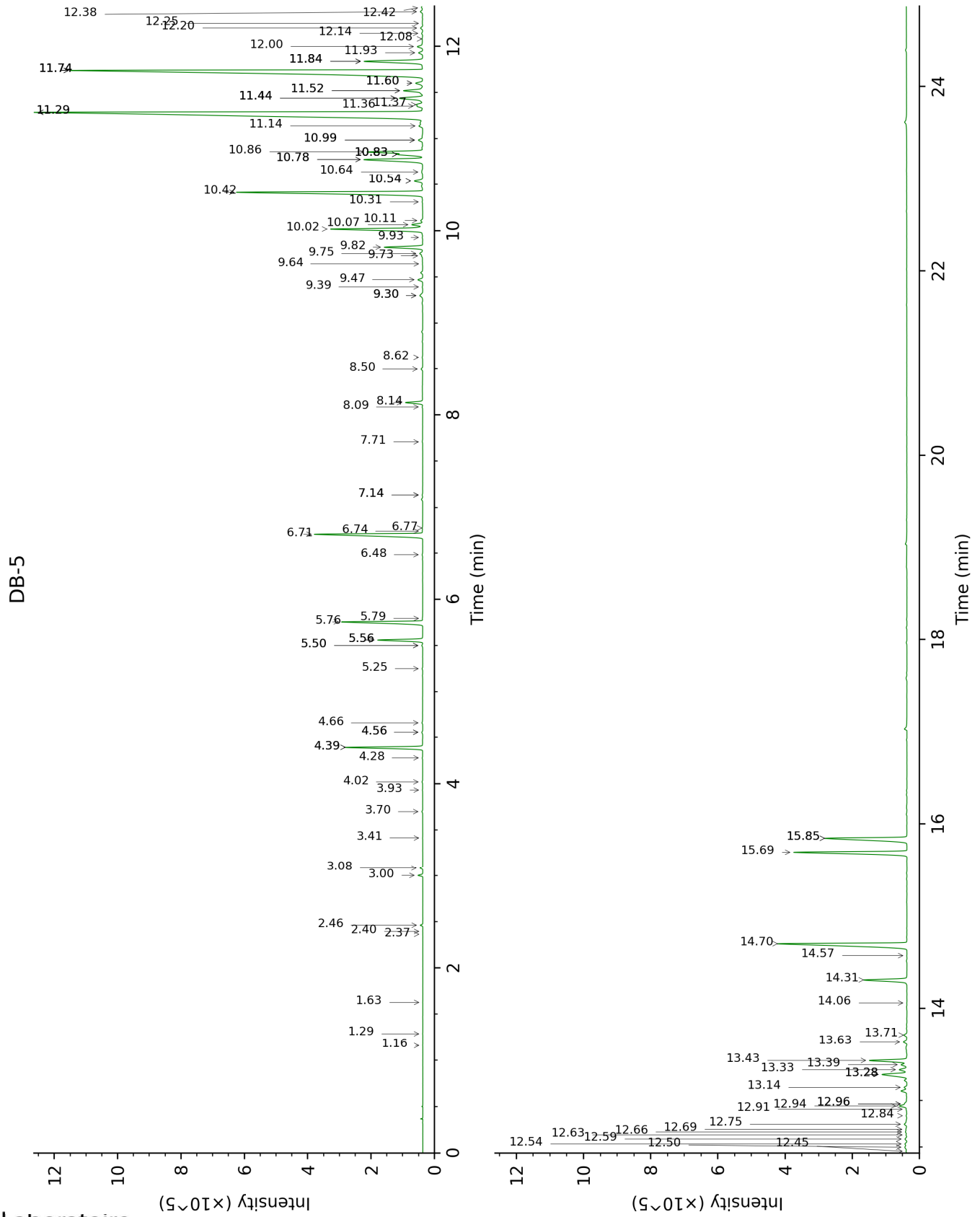
tr: The compound has been detected below 0.005% of total signal.

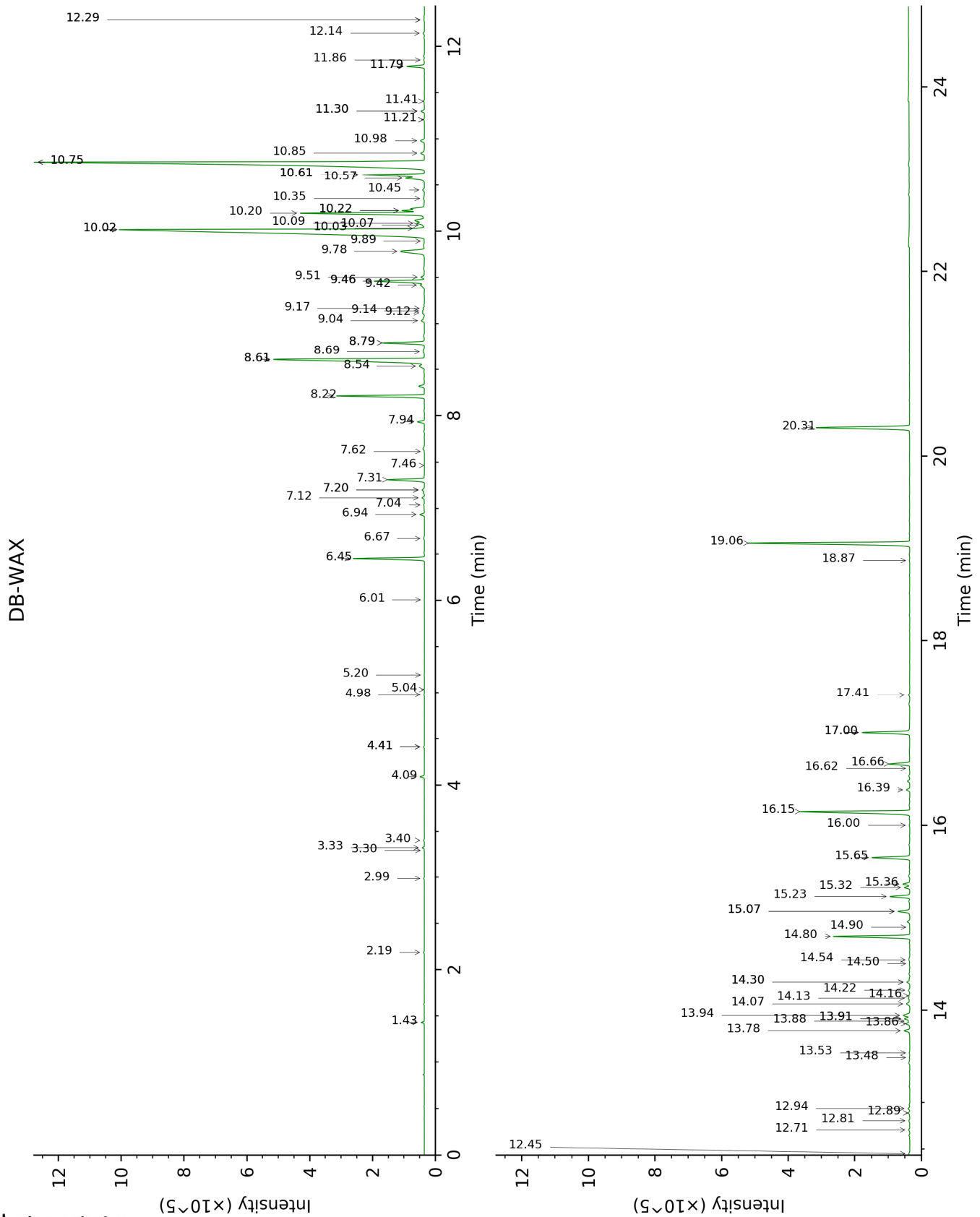
Note: no correction factor was applied

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.

This page was intentionally left blank. The following pages present the complete data of the analysis.





FULL ANALYSIS DATA

| Identification | Column DB-5 | | | Column DB-WAX | | |
|-----------------------------|-------------|------|--------|---------------|------|--------|
| | R.T | R.I | % | R.T | R.I | % |
| Toluene | 1.16 | 759 | tr | | | |
| Prenol | 1.29 | 777 | tr | 5.04 | 1290 | 0.01 |
| Butyl acetate | 1.63 | 816 | tr | | | |
| Isoamyl acetate | 2.37 | 876 | tr | | | |
| 2-Methylbutyl acetate | 2.40 | 878 | tr | | | |
| 3-Methyl-3-butenyl acetate | 2.46 | 884 | 0.05 | 3.33 | 1160 | 0.05 |
| Prenyl acetate | 3.00 | 923 | 0.11 | 4.09 | 1220 | 0.12 |
| α -Pinene | 3.08 | 928 | 0.07 | 1.43 | 992 | 0.06 |
| Benzaldehyde | 3.41 | 950 | tr | 7.46 | 1458 | 0.01 |
| β -Pinene | 3.70 | 968 | 0.02 | 2.19 | 1066 | 0.02 |
| 6-Methyl-5-hepten-2-one | 3.93 | 984 | 0.01 | 5.20 | 1302 | 0.01 |
| Myrcene | 4.02 | 989 | 0.02 | 2.99 | 1134 | 0.01 |
| (3Z)-Hexenyl acetate | 4.28 | 1006 | 0.01 | 4.98 | 1286 | 0.01 |
| para-Methylanisole | 4.39* | 1013 | 2.21 | 6.45 | 1383 | 2.14 |
| Hexyl acetate | 4.39* | 1013 | [2.21] | 4.41* | 1243 | 0.02 |
| Limonene | 4.56* | 1024 | 0.03 | 3.30 | 1158 | 0.01 |
| 1,8-Cineole | 4.56* | 1024 | [0.03] | 3.40 | 1167 | 0.02 |
| Benzyl alcohol | 4.66 | 1030 | 0.02 | 11.86 | 1814 | 0.03 |
| cis-Linalool oxide (fur.) | 5.25 | 1067 | 0.02 | 6.67 | 1399 | 0.03 |
| Terpinolene | 5.50* | 1083 | 0.03 | 4.41* | 1243 | [0.02] |
| trans-Linalool oxide (fur.) | 5.50* | 1083 | [0.03] | 7.04 | 1427 | 0.02 |
| Methyl benzoate | 5.56* | 1087 | 1.34 | 8.80* | 1561 | 1.34 |
| para-Cresol | 5.56* | 1087 | [1.34] | 14.07 | 2016 | 0.14 |
| Linalool | 5.76 | 1099 | 2.70 | 8.22 | 1516 | 2.69 |
| Nonanal | 5.80 | 1101 | 0.02 | 6.01 | 1351 | 0.01 |
| ortho-Dimethoxybenzene | 6.48 | 1146 | 0.02 | | | |
| Benzyl acetate | 6.70 | 1160 | 4.12 | 10.20 | 1673 | 4.29 |
| Ethyl benzoate | 6.74 | 1162 | 0.01 | 9.46* | 1613 | 1.79 |
| para-Cresyl acetate | 6.77 | 1164 | 0.01 | | | |
| Methyl salicylate | 7.14* | 1188 | 0.02 | 10.61* | 1708 | 2.24 |
| α -Terpineol | 7.14* | 1188 | [0.02] | 9.89 | 1649 | 0.01 |
| Nerol | 7.71 | 1226 | 0.01 | 11.21* | 1758 | 0.03 |
| Phenylethyl acetate | 8.09 | 1252 | 0.01 | 11.21* | 1758 | [0.03] |
| Geraniol | 8.14 | 1255 | 0.52 | 11.79* | 1808 | 0.55 |
| (E)-Anethole | 8.50 | 1280 | 0.05 | 11.30* | 1766 | 0.12 |
| 1-Nitro-2-phenylethane | 8.62 | 1289 | 0.02 | 14.30* | 2038 | 0.13 |
| δ -Elemene | 9.30* | 1331 | 0.14 | 7.12 | 1432 | 0.08 |
| Bicycloelemene | 9.30* | 1331 | [0.14] | 7.20*† | 1439 | 0.12 |
| Benzyl butyrate | 9.39 | 1338 | 0.01 | 11.79* | 1808 | [0.55] |

| | | | | | | |
|--|---------|------|---------|---------|------|---------|
| α-Cubebene | 9.47 | 1343 | 0.17 | 6.94 | 1419 | 0.15 |
| Eugenol | 9.64 | 1355 | 0.01 | 14.90 | 2095 | 0.01 |
| Neryl acetate | 9.73 | 1361 | 0.03 | 10.35 | 1686 | 0.05 |
| α-Ylangene | 9.75 | 1363 | 0.12 | 7.20*† | 1439 | [0.12] |
| α-Copaene | 9.82 | 1368 | 1.26 | 7.31 | 1447 | 1.22 |
| β-Bourbonene | 9.93 | 1375 | 0.01 | 7.62 | 1470 | 0.01 |
| Geranyl acetate | 10.02 | 1381 | 3.31 | 10.75* | 1720 | 22.12 |
| β-Cubebene | 10.07 | 1385 | 0.37 | 7.94 | 1494 | 0.23 |
| β-Elemene | 10.11 | 1388 | 0.06 | 8.61* | 1546 | 7.27 |
| Methyleugenol | 10.31 | 1402 | 0.02 | 13.48 | 1961 | 0.02 |
| β-Caryophyllene | 10.42 | 1410 | 7.26 | 8.61* | 1546 | [7.27] |
| Caryophylla-4(12),8(13)-diene | 10.54* | 1419 | 0.29 | 8.80* | 1561 | [1.34] |
| β-Copaene | 10.54* | 1419 | [0.29] | 8.54 | 1541 | 0.26 |
| Aromadendrene | 10.64 | 1426 | 0.06 | 8.69 | 1553 | 0.09 |
| (E)-Cinnamyl acetate | 10.78* | 1437 | 2.46 | 14.80 | 2086 | 2.48 |
| Isogermacrene D | 10.78* | 1437 | [2.46] | 9.12 | 1586 | 0.07 |
| 9-epi-Isocaryophyllene | 10.83* | 1441 | 0.75 | 9.17 | 1590 | 0.05 |
| (E)-Isoeugenol | 10.83* | 1441 | [0.75] | 16.66 | 2274 | 0.67 |
| trans-Muuroala-3,5-diene | 10.83* | 1441 | [0.75] | 9.04 | 1579 | 0.12 |
| α-Humulene | 10.86 | 1443 | 1.88 | 9.46* | 1613 | [1.79] |
| cis-Cadina-1(6),4-diene | 10.99* | 1452 | 0.18 | 9.14 | 1588 | 0.07 |
| cis-Muuroala-4(15),5-diene | 10.99* | 1452 | [0.18] | 9.50 | 1617 | 0.14 |
| trans-Cadina-1(6),4-diene | 11.14 | 1463 | 0.14 | 9.42 | 1610 | 0.20 |
| Germacrene D | 11.29*† | 1474 | 24.18 | 10.02* | 1659 | 22.46 |
| γ-Murolene | 11.29*† | 1474 | [24.18] | 9.78 | 1640 | 1.33 |
| trans-Muuroala-4(15),5-diene | 11.36 | 1479 | 0.16 | 10.03 | 1660 | 0.10 |
| γ-Amorphene | 11.37 | 1480 | 0.21 | 10.02* | 1659 | [22.46] |
| Prenyl benzoate | 11.44* | 1486 | 1.00 | 13.91* | 2000 | 0.18 |
| epi-Cubebol | 11.44* | 1486 | [1.00] | 12.14 | 1840 | 0.05 |
| Bicyclogermacrene | 11.44* | 1486 | [1.00] | 10.22*† | 1675 | 1.06 |
| (3Z,6E)-α-Farnesene | 11.52* | 1492 | 0.75 | 10.44 | 1694 | 0.06 |
| α-Murolene | 11.52* | 1492 | [0.75] | 10.22*† | 1675 | [1.06] |
| δ-Amorphene | 11.60* | 1498 | 0.28 | 10.09 | 1664 | 0.28 |
| Unknown [m/z 119, 41 (95), 123 (53), 80 (49), 161 (44), 105 (42)... 204 (2)] | 11.60* | 1498 | [0.28] | | | |
| (3E,6E)-α-Farnesene | 11.74* | 1508 | 19.64 | 10.75* | 1720 | [22.12] |
| Cubebol | 11.74* | 1508 | [19.64] | 12.71 | 1890 | 0.04 |
| γ-Cadinene | 11.74* | 1508 | [19.64] | 10.58 | 1704 | 0.70 |
| (Z)-γ-Bisabolene | 11.74* | 1508 | [19.64] | 10.07 | 1663 | 0.04 |
| trans-Calamenene | 11.84* | 1516 | 2.37 | 11.41 | 1775 | 0.03 |
| δ-Cadinene | 11.84* | 1516 | [2.37] | 10.61* | 1708 | [2.24] |

| | | | | | | |
|---|---------|------|--------|--------|------|--------|
| Zonarene | 11.84* | 1516 | [2.37] | 10.61* | 1708 | [2.24] |
| <i>trans</i> -Cadina-1,4-diene | 11.93 | 1523 | 0.15 | 10.85 | 1728 | 0.16 |
| α -Cadinene | 12.00 | 1528 | 0.22 | 10.98 | 1739 | 0.16 |
| α -Calacorene | 12.08 | 1535 | 0.03 | 12.29* | 1852 | 0.03 |
| <i>cis</i> -Dracunculifolol | 12.14 | 1540 | 0.04 | 12.29* | 1852 | [0.03] |
| α -Elemol | 12.20 | 1544 | 0.08 | 14.22 | 2030 | 0.06 |
| Germacrene B | 12.25 | 1548 | 0.01 | 11.30* | 1766 | [0.12] |
| β -Calacorene | 12.38 | 1558 | 0.09 | 12.81 | 1898 | 0.04 |
| (<i>E</i>)-Nerolidol | 12.42 | 1562 | 0.05 | 13.88 | 1998 | 0.05 |
| (3 <i>Z</i>)-Hexenyl benzoate | 12.45 | 1564 | 0.03 | 14.50 | 2057 | 0.02 |
| Spathulenol | 12.50 | 1567 | 0.10 | 14.54 | 2061 | 0.05 |
| Caryophyllene oxide | 12.54 | 1570 | 0.07 | 12.94 | 1910 | 0.06 |
| 10- <i>epi</i> -Junenol | 12.59 | 1574 | 0.08 | 12.89 | 1906 | 0.06 |
| Unknown cadinol or muurolol analog [m/z 161, 119 (77), 120 (76), 105 (73), 93 (57)... 204 (36)] | 12.63 | 1578 | 0.03 | 12.45 | 1867 | 0.04 |
| Unknown [m/z 161, 105 (84), 43 (80), 119 (72), 93 (62), 121 (54)... 204 (38), 222 (2)] | 12.66 | 1580 | 0.06 | 14.13 | 2022 | 0.06 |
| Viridiflorol | 12.69 | 1582 | 0.05 | 14.16 | 2024 | 0.04 |
| Guaiol | 12.75 | 1587 | 0.15 | 14.30* | 2038 | [0.13] |
| Copaborneol | 12.84 | 1594 | 0.03 | 15.07* | 2112 | 0.43 |
| Humulene epoxide II | 12.91 | 1599 | 0.04 | 13.53 | 1966 | 0.02 |
| 10- <i>epi</i> -Cubenol | 12.94 | 1602 | 0.28 | 13.94 | 2004 | 0.27 |
| (<i>E</i>)-Isoeugenyl acetate | 12.96* | 1604 | 0.08 | 17.41 | 2354 | 0.05 |
| Junenol | 12.96* | 1604 | [0.08] | 13.78 | 1988 | 0.20 |
| 1- <i>epi</i> -Cubenol | 13.14 | 1618 | 0.09 | 13.91* | 2000 | [0.18] |
| τ -Cadinol | 13.28*† | 1630 | 1.40 | 15.07* | 2112 | [0.43] |
| τ -Muurolol | 13.28*† | 1630 | [1.40] | 15.23 | 2128 | 0.66 |
| Cubenol | 13.33† | 1634 | [1.40] | 13.86 | 1995 | 0.14 |
| α -Muurolol | 13.39 | 1638 | 0.21 | 15.36 | 2142 | 0.23 |
| α -Cadinol | 13.43 | 1642 | 1.26 | 15.66 | 2171 | 1.26 |
| <i>trans</i> -Calamennen-10-ol | 13.63 | 1658 | 0.14 | 17.00* | 2310 | 1.58 |
| Unknown [m/z 123, 95 (31), 81 (29), 105 (27)... 222 (5)] | 13.71 | 1665 | 0.11 | 16.39 | 2246 | 0.12 |
| (2 <i>E</i> ,6 <i>Z</i>)-Farnesol | 14.06 | 1694 | 0.01 | 16.62 | 2270 | 0.02 |
| (2 <i>E</i> ,6 <i>E</i>)-Farnesol | 14.31 | 1715 | 1.54 | 17.00* | 2310 | [1.58] |
| (2 <i>E</i> ,6 <i>E</i>)-Farnesal | 14.57 | 1737 | 0.01 | 16.00 | 2206 | 0.03 |
| Benzyl benzoate | 14.70 | 1749 | 5.72 | 19.06 | 2536 | 5.73 |
| (2 <i>E</i> ,6 <i>E</i>)-Farnesyl acetate | 15.69 | 1836 | 4.02 | 16.15 | 2221 | 4.04 |

| | | | | | | |
|---|--------|---------------|--------|-------|---------------|------|
| Benzyl salicylate | 15.85* | 1850 | 3.46 | 20.31 | 2682 | 3.44 |
| Geranyl benzoate | 15.85* | 1850 | [3.46] | 18.87 | 2514 | 0.01 |
| Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 (40)... 204 (35), 222 (2)] | | | | 15.32 | 2138 | 0.17 |
| Total identified | | 98.03% | | | 96.44% | |
| Total reported | | 98.23% | | | 96.84% | |

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not 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