

Date : 2024-03-19

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

**Internal code :** 24C05-PTH01

**Customer Identification :** Thyme Linalool - Bulgaria - TL0109R

**Type :** Essential Oil

**Source :** *Thymus vulgaris* ct. Linalool

**Customer :** Plant Therapy

Checked and approved by:

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

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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 :** 2024-03-13

## PHYSICOCHEMICAL DATA

**Refractive index :**  $1.4668 \pm 0.0003$  (20 °C)

**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.

**Analyst :** Cindy Caron B. Sc.

**Date :** 2024-03-06

## 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                      | %      | Class                  |
|-------------------------------------|--------|------------------------|
| Hashishene                          | 0.01   | Monoterpene            |
| Tricyclene                          | 0.15   | Monoterpene            |
| $\alpha$ -Thujene                   | 1.58   | Monoterpene            |
| $\alpha$ -Pinene                    | 1.04   | Monoterpene            |
| $\alpha$ -Fenchene                  | 0.02   | Monoterpene            |
| Camphene                            | 1.31   | Monoterpene            |
| Unknown                             | 0.03   | Monoterpene            |
| Thuja-2,4(10)-diene                 | 0.03   | Monoterpene            |
| Sabinene                            | 0.15   | Monoterpene            |
| $\beta$ -Pinene                     | 0.21   | Monoterpene            |
| Unknown                             | 0.05   | Monoterpene            |
| Octen-3-ol                          | 0.07   | Aliphatic alcohol      |
| Octan-3-one                         | 0.02   | Aliphatic ketone       |
| Myrcene                             | 2.83   | Monoterpene            |
| Pseudolimonene                      | 0.17   | Monoterpene            |
| $\alpha$ -Phellandrene              | 0.08   | Monoterpene            |
| <i>cis</i> -Dehydroxylinalool oxide | 0.01   | Monoterpenic ether     |
| $\Delta^3$ -Carene                  | 0.04   | Monoterpene            |
| $\alpha$ -Terpinene                 | 1.43   | Monoterpene            |
| <i>para</i> -Cymene                 | 2.51   | Monoterpene            |
| $\beta$ -Phellandrene               | [1.84] | Monoterpene            |
| Limonene                            | 0.38   | Monoterpene            |
| 1,8-Cineole                         | [1.84] | Monoterpenic ether     |
| ( <i>Z</i> )- $\beta$ -Ocimene      | 0.04   | Monoterpene            |
| ( <i>E</i> )- $\beta$ -Ocimene      | 0.20   | Monoterpene            |
| $\gamma$ -Terpinene                 | 3.58   | Monoterpene            |
| <i>cis</i> -Sabinene hydrate        | 0.31   | Monoterpenic alcohol   |
| <i>cis</i> -Linalool oxide (fur.)   | 0.06   | Monoterpenic alcohol   |
| Fenchone                            | 0.02   | Monoterpenic ketone    |
| <i>trans</i> -Linalool oxide (fur.) | 0.18   | Monoterpenic alcohol   |
| Terpinolene                         | 0.15   | Monoterpene            |
| <i>para</i> -Cymenene               | 0.03   | Monoterpene            |
| <i>trans</i> -Sabinene hydrate      | 0.02   | Monoterpenic alcohol   |
| endo-Fenchol                        | 0.02   | Monoterpenic alcohol   |
| Linalool                            | 69.02  | Monoterpenic alcohol   |
| Unknown                             | 0.03   | Oxygenated monoterpene |
| <i>cis-para</i> -Menth-2-en-1-ol    | 0.06   | Monoterpenic alcohol   |
| <i>trans-para</i> -Menth-2-en-1-ol  | 0.05   | Monoterpenic alcohol   |
| Camphor                             | 0.39   | Monoterpenic ketone    |
| <i>trans</i> -Verbenol              | 0.02   | Monoterpenic alcohol   |

|                                   |      |                        |
|-----------------------------------|------|------------------------|
| Nerol oxide                       | 0.01 | Aliphatic ether        |
| Borneol                           | 1.54 | Monoterpenic alcohol   |
| <i>cis</i> -Linalool oxide (pyr.) | 0.02 | Monoterpenic alcohol   |
| Unknown                           | 0.06 | Oxygenated monoterpene |
| Terpinen-4-ol                     | 4.74 | Monoterpenic alcohol   |
| <i>para</i> -Cymen-8-ol           | 0.02 | Monoterpenic alcohol   |
| Unknown                           | 0.01 | Unknown                |
| $\alpha$ -Terpineol               | 1.15 | Monoterpenic alcohol   |
| <i>cis</i> -Dihydrocarvone        | 0.03 | Monoterpenic ketone    |
| <i>trans</i> -Dihydrocarvone      | 0.02 | Monoterpenic ketone    |
| Verbenone                         | 0.32 | Monoterpenic ketone    |
| <i>trans</i> -Piperitol           | 0.02 | Monoterpenic alcohol   |
| <i>trans</i> -Carveol             | tr   | Monoterpenic alcohol   |
| Bornyl formate                    | 0.01 | Monoterpenic ester     |
| Unknown                           | 0.01 | Oxygenated monoterpene |
| Thymol methyl ether               | 0.01 | Monoterpenic ether     |
| Neral                             | 0.02 | Monoterpenic aldehyde  |
| Carvacrol methyl ether            | 0.08 | Monoterpenic ether     |
| Linalyl acetate                   | 0.03 | Monoterpenic ester     |
| Unknown                           | 0.01 | Unknown                |
| Geranial                          | 0.02 | Monoterpenic aldehyde  |
| Bornyl acetate                    | 0.08 | Monoterpenic ester     |
| Thymol analogue I (isothymol?)    | 0.01 | Monoterpenic alcohol   |
| Thymol                            | 0.50 | Monoterpenic alcohol   |
| Carvacrol                         | 0.90 | Monoterpenic alcohol   |
| Unknown                           | 0.01 | Unknown                |
| $\alpha$ -Terpinyl acetate        | 0.03 | Monoterpenic ester     |
| $\alpha$ -Copaene                 | 0.01 | Sesquiterpene          |
| Bornyl propionate                 | 0.02 | Monoterpenic ester     |
| $\beta$ -Bourbonene               | 0.02 | Sesquiterpene          |
| $\alpha$ -Gurjunene               | 0.02 | Sesquiterpene          |
| $\beta$ -Caryophyllene            | 0.61 | Sesquiterpene          |
| $\beta$ -Copaene                  | 0.01 | Sesquiterpene          |
| Aromadendrene                     | 0.05 | Sesquiterpene          |
| $\alpha$ -Humulene                | 0.03 | Sesquiterpene          |
| allo-Aromadendrene                | 0.02 | Sesquiterpene          |
| $\gamma$ -Muurolene               | 0.01 | Sesquiterpene          |
| Germacrene D                      | 0.03 | Sesquiterpene          |
| allo-Aromadendr-9-ene             | 0.01 | Sesquiterpene          |
| Viridiflorene                     | 0.02 | Sesquiterpene          |
| Bicyclogermacrene                 | 0.07 | Sesquiterpene          |
| $\alpha$ -Muurolene               | 0.02 | Sesquiterpene          |
| $\gamma$ -Cadinene                | 0.04 | Sesquiterpene          |
| $\beta$ -Bisabolene               | 0.24 | Sesquiterpene          |
| $\delta$ -Cadinene                | 0.06 | Sesquiterpene          |

|   |              |                        |
|---|--------------|------------------------|
| $\alpha$ -Elemol                            | 0.02         | Sesquiterpenic alcohol |
| Geranyl butyrate                            | 0.01         | Monoterpenic ester     |
| Spathulenol                                 | 0.04         | Sesquiterpenic alcohol |
| Caryophyllene oxide isomer                  | 0.01         | Sesquiterpenic ether   |
| Caryophyllene oxide                         | 0.07         | Sesquiterpenic ether   |
| Humulene epoxide II                         | 0.01         | Sesquiterpenic ether   |
| Isospathulenol                              | 0.01         | Sesquiterpenic alcohol |
| $\tau$ -Cadinol                             | 0.05         | Sesquiterpenic alcohol |
| $\beta$ -Eudesmol                           | 0.01         | Sesquiterpenic alcohol |
| $\alpha$ -Eudesmol                          | 0.01         | Sesquiterpenic alcohol |
| $\alpha$ -Cadinol                           | 0.01         | Sesquiterpenic alcohol |
| (3Z)-Caryophylla-3,8(13)-dien-5 $\beta$ -ol | 0.01         | Sesquiterpenic alcohol |
| $\alpha$ -Bisabolol                         | 0.02         | Sesquiterpenic alcohol |
| <i>meta</i> -Camphorene                     | 0.03         | Diterpene              |
| <i>para</i> -Camphorene                     | 0.02         | Diterpene              |
| <b>Consolidated total</b>                   | <b>99.40</b> |                        |

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

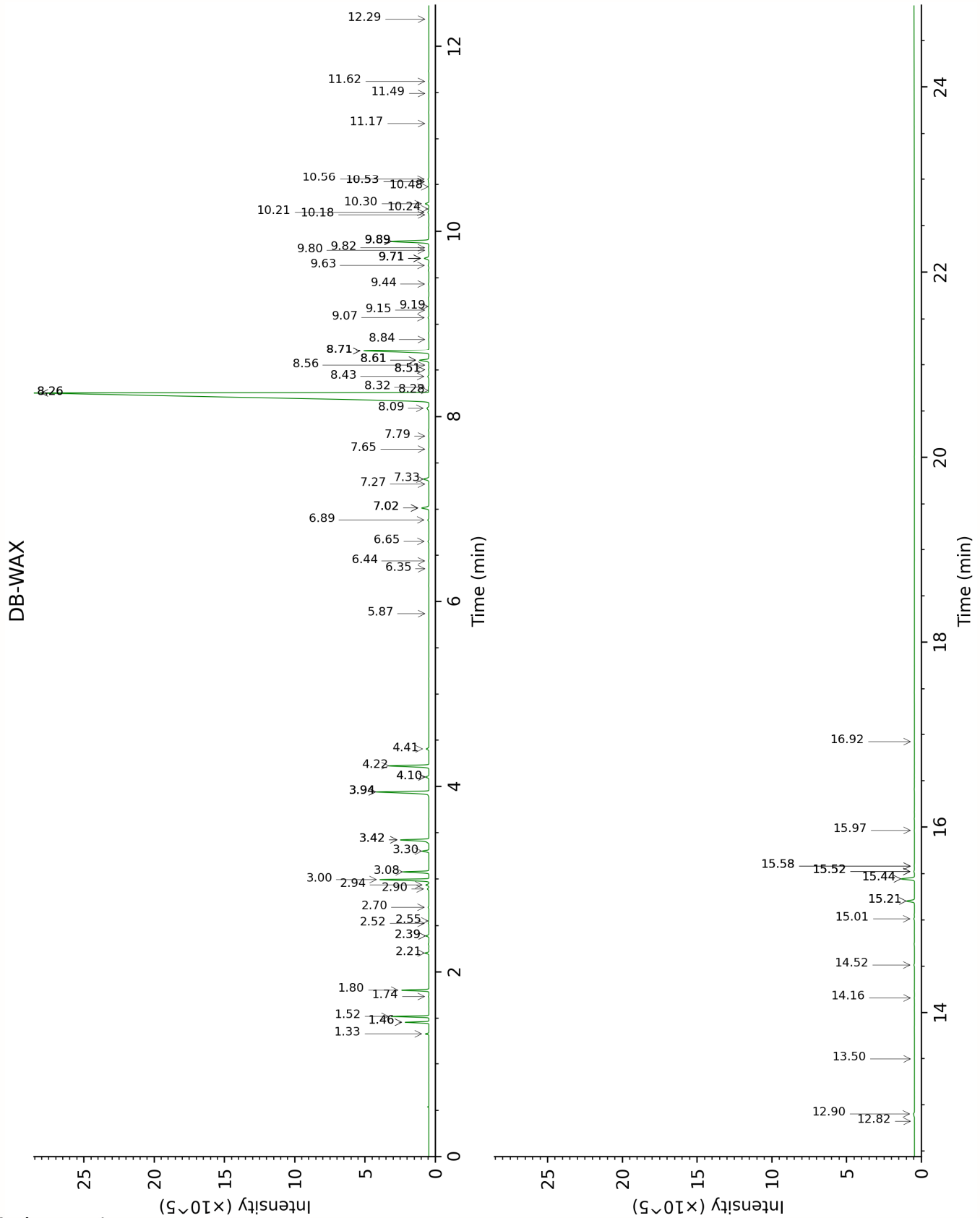
Note: no correction factor was applied

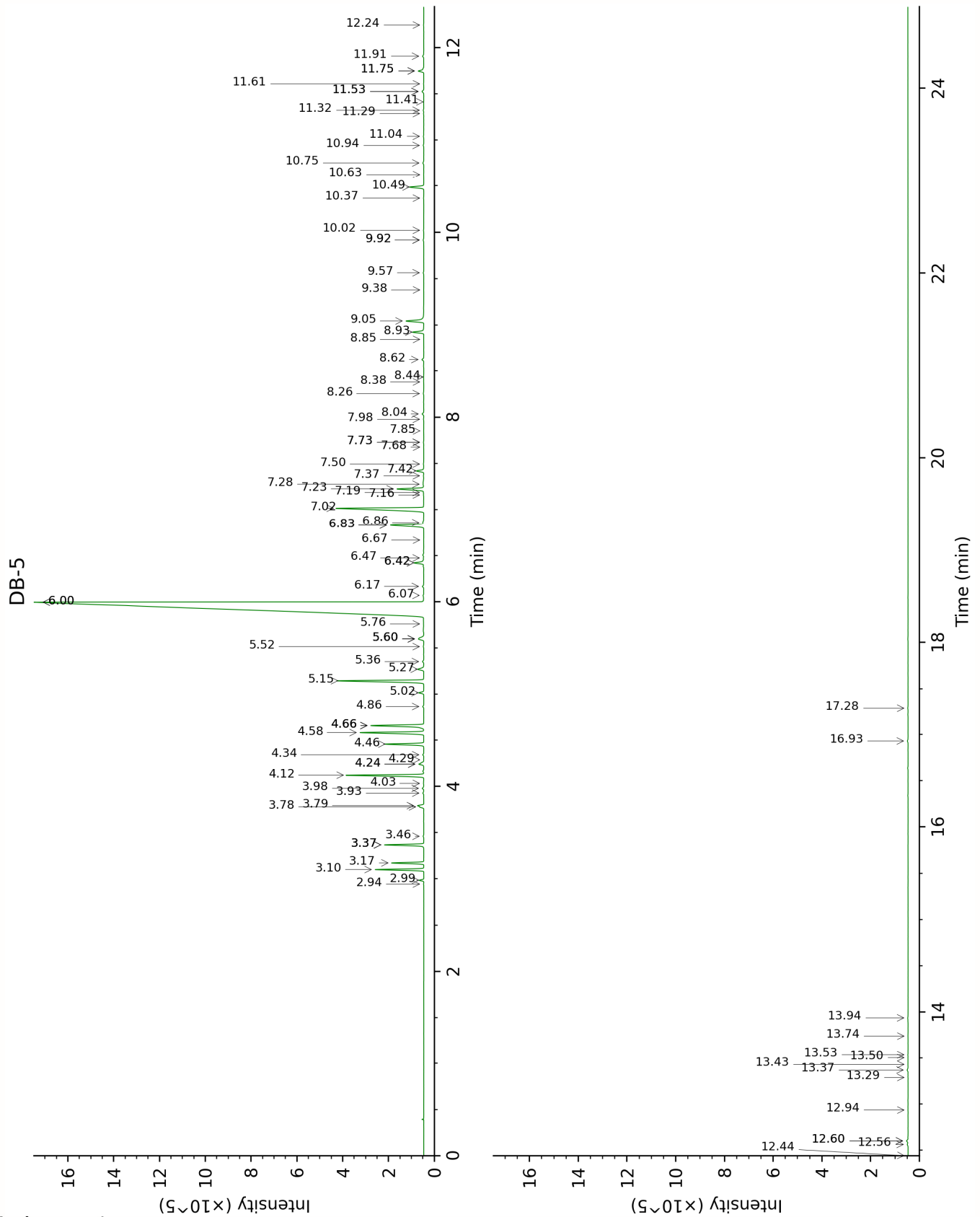
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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.

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







FULL ANALYSIS DATA

| Hashishene  | Column DB-WAX |        |        | Column DB-5 |        |        |
|---|---------------|--------|--------|-------------|--------|--------|
|   | 1.46*         | 991.6  | [1.04] | 2.94        | 916.5  | 0.01   |
| Tricyclene  | 1.33          | 972.9  | 0.15   | 2.99        | 919.2  | 0.15   |
| $\alpha$ -Thujene   | 1.52          | 1001.2 | 1.58   | 3.10        | 926.8  | 1.58   |
| $\alpha$ -Pinene  | 1.46*         | 991.6  | [1.04] | 3.17        | 931.5  | 1.04   |
| $\alpha$ -Fenchene  | 1.74          | 1022.1 | 0.02   | 3.37*       | 944.4  | [1.35] |
| Camphene  | 1.80          | 1028.5 | 1.31   | 3.37*       | 944.4  | [1.35] |
| Unknown SAOF I<br>[m/z 91, 92 (47), 65<br>(11)... 134 (1)]                        | 2.52          | 1096.5 | 0.03   | 3.37*       | 944.4  | [1.35] |
| Thuja-2,4(10)-<br>diene   | 2.39*         | 1083.7 | [0.15] | 3.46        | 950.4  | 0.03   |
| Sabinene  | 2.39*         | 1083.7 | [0.15] | 3.78*†      | 971.3  | [0.11] |
| $\beta$ -Pinene   | 2.20          | 1066.3 | 0.21   | 3.79*†      | 972.2  | [0.24] |
| Unknown ORVU I<br>[m/z 93, 79 (73), 67<br>(49), 95 (42), 91<br>(41), 121 (38)...] | 2.55          | 1099.0 | 0.01   | 3.93        | 981.1  | 0.05   |
| Octen-3-ol  | 6.89          | 1416.6 | 0.07   | 3.98        | 984.5  | 0.07   |
| Octan-3-one   | 4.10*         | 1217.1 | [0.20] | 4.03        | 988.0  | 0.02   |
| Myrcene   | 3.00          | 1133.6 | 2.83   | 4.12        | 993.9  | 2.83   |
| Pseudolimonene  | 2.94          | 1129.2 | 0.17   | 4.24*       | 1001.7 | [0.27] |
| $\alpha$ -Phellandrene  | 2.90          | 1125.9 | 0.08   | 4.24*       | 1001.7 | [0.27] |
| <i>cis</i> -<br>Dehydroxylinalool<br>oxide  | 3.94*         | 1205.5 | [3.62] | 4.29        | 1004.8 | 0.01   |
| $\Delta$ 3-Carene   | 2.70          | 1110.9 | 0.04   | 4.34        | 1008.2 | 0.04   |
| $\alpha$ -Terpinene   | 3.08          | 1139.9 | 1.42   | 4.46        | 1015.5 | 1.43   |
| <i>para</i> -Cymene   | 4.22          | 1225.7 | 2.53   | 4.58        | 1023.2 | 2.51   |
| $\beta$ -Phellandrene   | 3.42*         | 1166.3 | [1.84] | 4.66*       | 1028.0 | [2.23] |
| Limonene  | 3.30          | 1157.0 | 0.38   | 4.66*       | 1028.0 | [2.23] |
| 1,8-Cineole   | 3.42*         | 1166.3 | [1.84] | 4.66*       | 1028.0 | [2.23] |
| ( <i>Z</i> )- $\beta$ -Ocimene  | 3.94*         | 1205.5 | [3.62] | 4.86        | 1040.8 | 0.04   |
| ( <i>E</i> )- $\beta$ -Ocimene  | 4.10*         | 1217.1 | [0.20] | 5.02        | 1050.6 | 0.20   |
| $\gamma$ -Terpinene   | 3.94*         | 1205.5 | [3.62] | 5.15        | 1058.7 | 3.58   |
| <i>cis</i> -Sabinene<br>hydrate   | 7.02*         | 1426.2 | [0.53] | 5.27        | 1066.5 | 0.31   |
| <i>cis</i> -Linalool oxide<br>(fur.)  | 6.65          | 1398.9 | 0.06   | 5.36        | 1071.6 | 0.06   |
| Fenchone  | 5.87          | 1342.7 | 0.01   | 5.52        | 1081.7 | 0.02   |
| <i>trans</i> -Linalool<br>oxide (fur.)  | 7.02*         | 1426.2 | [0.53] | 5.60*       | 1086.9 | [0.36] |
| Terpinolene   | 4.40          | 1238.8 | 0.15   | 5.60*       | 1086.9 | [0.36] |
| <i>para</i> -Cymenene   | 6.44          | 1383.7 | 0.03   | 5.60*       | 1086.9 | [0.36] |

|   |        |        |         |       |        |         |
|---|--------|--------|---------|-------|--------|---------|
| <i>trans</i> -Sabinene hydrate  | 8.09   | 1506.6 | 0.18    | 5.76  | 1097.0 | 0.02    |
| endo-Fenchol  | 8.51*  | 1538.8 | [0.03]  | 6.00* | 1111.9 | [69.04] |
| Linalool  | 8.26*  | 1519.4 | [68.73] | 6.00* | 1111.9 | [69.04] |
| Unknown SASC I<br>[m/z 41, 67 (75), 69 (59), 79 (55), 81 (44), 71 (41)... 150 (5)]  | 6.35   | 1377.6 | 0.01    | 6.07  | 1116.5 | 0.03    |
| <i>cis-para</i> -Menth-2-en-1-ol  | 8.32   | 1524.2 | 0.03    | 6.17  | 1122.7 | 0.06    |
| <i>trans-para</i> -Menth-2-en-1-ol  | 9.07   | 1582.9 | 0.05    | 6.42* | 1139.0 | [0.44]  |
| Camphor   | 7.33   | 1449.5 | 0.39    | 6.42* | 1139.0 | [0.44]  |
| <i>trans</i> -Verbenol  | 9.71*  | 1633.8 | [0.35]  | 6.47  | 1142.3 | 0.02    |
| Nerol oxide   | 7.02*  | 1426.2 | [0.53]  | 6.67  | 1154.6 | 0.01    |
| Borneol   | 9.89*  | 1648.6 | [2.74]  | 6.83* | 1165.1 | [1.56]  |
| <i>cis</i> -Linalool oxide (pyr.)   | 10.48  | 1696.3 | 0.02    | 6.83* | 1165.1 | [1.56]  |
| Unknown MISC XCIII [m/z 43, 71 (87), 95 (50), 81 (38), 109 (30), 41 (27)...152 (5)] |        |        |         | 6.86  | 1167.0 | 0.06    |
| Terpinen-4-ol   | 8.71*  | 1554.8 | [4.85]  | 7.02  | 1177.0 | 4.74    |
| <i>para</i> -Cymen-8-ol   | 11.62  | 1793.1 | 0.02    | 7.16  | 1186.2 | 0.02    |
| Unknown UNKN VI [m/z 43, 135 (73), 59 (46), 93 (39), 91 (35), 81 (32)...]           |        |        |         | 7.19  | 1187.9 | 0.01    |
| $\alpha$ -Terpineol   | 9.89*  | 1648.6 | [2.74]  | 7.23  | 1190.4 | 1.15    |
| <i>cis</i> -Dihydrocarvone  | 8.61*  | 1546.9 | [0.64]  | 7.28  | 1193.6 | 0.03    |
| <i>trans</i> -Dihydrocarvone  | 8.84   | 1564.7 | 0.03    | 7.37  | 1199.4 | 0.02    |
| Verbenone   | 9.71*  | 1633.8 | [0.35]  | 7.42  | 1202.8 | 0.32    |
| <i>trans</i> -Piperitol   | 10.53* | 1700.8 | [0.04]  | 7.50  | 1207.6 | 0.02    |
| <i>trans</i> -Carveol   | 11.49  | 1782.1 | 0.01    | 7.68  | 1219.8 | tr      |
| Bornyl formate  | 8.26*  | 1519.4 | [68.73] | 7.73* | 1223.3 | [0.02]  |
| Unknown DACA VI [m/z 119, 43 (52), 59 (45), 91 (36), 79 (24), 134 (23)...]          | 11.17  | 1754.6 | 0.01    | 7.73* | 1223.3 | [0.02]  |
| Thymol methyl ether   | 8.56   | 1542.7 | 0.01    | 7.85  | 1231.5 | 0.01    |

|   |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|
| Neral   | 9.64   | 1627.7 | 0.05   | 7.98   | 1239.9 | 0.02   |
| Carvacrol methyl ether  | 8.71*  | 1554.8 | [4.85] | 8.04   | 1243.7 | 0.08   |
| Linalyl acetate   | 8.28   | 1521.5 | 0.03   | 8.26   | 1258.4 | 0.03   |
| Unknown THVU XV [m/z 82, 109 (35), 135 (22), 127 (19), 54 (16), 43 (14)...] |        |        |        | 8.38   | 1266.8 | 0.01   |
| Geranial  | 10.24  | 1677.0 | 0.03   | 8.44   | 1270.4 | 0.02   |
| Bornyl acetate  | 8.43   | 1533.2 | 0.08   | 8.62   | 1283.0 | 0.08   |
| Thymol analogue I (isothymol?)  | 15.21* | 2125.3 | [0.51] | 8.85   | 1298.0 | 0.01   |
| Thymol  | 15.21* | 2125.3 | [0.51] | 8.93   | 1303.3 | 0.50   |
| Carvacrol   | 15.44* | 2149.2 | [0.89] | 9.05   | 1311.6 | 0.90   |
| Unknown BUGR III [m/z 150, 71 (67), 107 (54), 43 (44), 109 (42)...]         |        |        |        | 9.38   | 1335.1 | 0.01   |
| $\alpha$ -Terpinyl acetate  | 9.82   | 1643.1 | 0.02   | 9.57   | 1348.1 | 0.03   |
| $\alpha$ -Copaene   | 7.27   | 1445.4 | 0.01   | 9.92*  | 1372.9 | [0.04] |
| Bornyl propionate   | 9.19   | 1592.3 | 0.02   | 9.92*  | 1372.9 | [0.04] |
| $\beta$ -Bourbonene   | 7.65   | 1473.5 | 0.02   | 10.02  | 1380.3 | 0.02   |
| $\alpha$ -Gurjunene   | 7.79   | 1484.0 | 0.02   | 10.37  | 1404.7 | 0.02   |
| $\beta$ -Caryophyllene  | 8.61*  | 1546.9 | [0.64] | 10.49  | 1413.6 | 0.61   |
| $\beta$ -Copaene  | 8.51*  | 1538.8 | [0.03] | 10.63  | 1423.9 | 0.01   |
| Aromadendrene   | 8.71*  | 1554.8 | [4.85] | 10.75  | 1433.4 | 0.05   |
| $\alpha$ -Humulene  | 9.44   | 1611.4 | 0.04   | 10.94  | 1447.5 | 0.03   |
| allo-Aromadendrene  | 9.16   | 1589.2 | 0.02   | 11.04  | 1454.8 | 0.02   |
| $\gamma$ -Murolene  | 9.71*  | 1633.8 | [0.35] | 11.29  | 1473.1 | 0.01   |
| Germacrene D  | 9.89*  | 1648.6 | [2.74] | 11.32  | 1475.8 | 0.03   |
| allo-Aromadendrene  | 9.71*  | 1633.8 | [0.35] | 11.41  | 1482.5 | 0.01   |
| Viridiflorene   | 9.80   | 1640.8 | 0.02   | 11.53* | 1490.8 | [0.09] |
| Bicyclogermacrene   | 10.20  | 1674.0 | 0.07   | 11.53* | 1490.8 | [0.09] |
| $\alpha$ -Murolene  | 10.18  | 1671.8 | 0.01   | 11.61  | 1497.0 | 0.02   |
| $\gamma$ -Cadinene  | 10.53* | 1700.8 | [0.04] | 11.75* | 1507.4 | [0.28] |
| $\beta$ -Bisabolene   | 10.30  | 1681.5 | 0.24   | 11.75* | 1507.4 | [0.28] |
| $\delta$ -Cadinene  | 10.56  | 1703.0 | 0.06   | 11.91  | 1519.9 | 0.06   |
| $\alpha$ -Elemol  | 14.16  | 2023.8 | 0.02   | 12.24  | 1546.3 | 0.02   |
| Geranyl butyrate  | 12.29  | 1852.2 | 0.01   | 12.44  | 1561.7 | 0.01   |
| Spathulenol   | 14.52  | 2058.0 | 0.04   | 12.56  | 1571.4 | 0.04   |
| Caryophyllene oxide isomer  | 12.82  | 1899.3 | 0.01   | 12.60* | 1574.4 | [0.07] |

|   |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|
| Caryophyllene oxide                         | 12.90  | 1906.5 | 0.07   | 12.60* | 1574.4 | [0.07] |
| Humulene epoxide II                         | 13.50  | 1961.4 | 0.01   | 12.94  | 1600.5 | 0.01   |
| Isospathulenol                              | 15.58* | 2163.0 | [0.02] | 13.29  | 1629.4 | 0.01   |
| $\tau$ -Cadinol                             | 15.01  | 2106.0 | 0.04   | 13.37  | 1636.0 | 0.05   |
| $\beta$ -Eudesmol                           | 15.52* | 2157.1 | [0.04] | 13.43  | 1641.1 | 0.01   |
| $\alpha$ -Eudesmol                          | 15.44* | 2149.2 | [0.89] | 13.50  | 1647.1 | 0.01   |
| $\alpha$ -Cadinol                           | 15.58* | 2163.0 | [0.02] | 13.53  | 1649.7 | 0.01   |
| (3Z)-Caryophylla-3,8(13)-dien-5 $\beta$ -ol | 16.92  | 2301.1 | 0.01   | 13.74  | 1666.8 | 0.01   |
| $\alpha$ -Bisabolol                         | 15.52* | 2157.1 | [0.04] | 13.94  | 1683.1 | 0.02   |
| <i>meta</i> -Camphorene                     | 15.52* | 2157.1 | [0.04] | 16.93  | 1949.7 | 0.03   |
| <i>para</i> -Camphorene                     | 15.97  | 2201.6 | 0.01   | 17.28  | 1983.4 | 0.02   |
| Total reported                              |        | 99.07% |        |        | 99.40% |        |

\*: 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