

**Date :** 2026-01-05

**CERTIFICATE OF ANALYSIS - GC PROFILING**

**SAMPLE IDENTIFICATION**

**Internal code :** 25L10-PTH01

**Customer Identification :** Chamomile Roman ORGANIC - Hungary - CC3108R

**Type :** Essential Oil

**Source :** *Chamaemelum nobile*

**Customer :** Plant Therapy

Checked and approved by:

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

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This report is an update from the first version issued on 2025-12-12 to correct the customer identification.

## *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 :** Jean-Christophe Fortin, M. Sc.

**Date :** 2025-12-12

## *PHYSICOCHEMICAL DATA*

**Refractive index :**  $1.4365 \pm 0.0003$  (20 °C)

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

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

**Date :** 2025-12-11

## *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              |
|-------------------------|------|--------------------|
| Isobutanol              | 0.05 | Aliphatic alcohol  |
| Methallyl alcohol       | 0.05 | Aliphatic alcohol  |
| 3-Methyl-2-butanone     | tr   | Aliphatic ketone   |
| 2-Methylbutyral         | tr   | Aliphatic aldehyde |
| Isoamyl alcohol         | 0.14 | Aliphatic alcohol  |
| 2-Methylbutanol         | 0.14 | Aliphatic alcohol  |
| (2Z)-Pentenol           | 0.01 | Aliphatic alcohol  |
| Ethyl isobutyrate       | 0.01 | Aliphatic ester    |
| Toluene                 | 0.03 | Simple phenolic    |
| Methyl 2-methylbutyrate | tr   | Aliphatic ester    |
| Methyl isovalerate      | 0.01 | Aliphatic ester    |
| Isobutyl acetate        | 0.01 | Aliphatic ester    |
| Octene                  | 0.02 | Alkene             |
| Hexanal                 | 0.02 | Aliphatic aldehyde |
| Methyl angelate         | 0.03 | Aliphatic ester    |
| 3-Methylpentanol        | 0.72 | Aliphatic alcohol  |
| (2E)-Hexenal            | 0.02 | Aliphatic aldehyde |
| Ethyl 2-methylbutyrate  | 0.03 | Aliphatic ester    |
| Propyl isobutyrate      | 0.03 | Aliphatic ester    |
| (3Z)-Hexenol            | 0.05 | Aliphatic alcohol  |
| (2E)-Hexenol            | 0.01 | Aliphatic alcohol  |
| Isobutyl propionate     | 0.03 | Aliphatic ester    |
| Hexanol                 | 0.02 | Aliphatic alcohol  |
| Isoamyl acetate         | 0.15 | Aliphatic ester    |
| 2-Methylbutyl acetate   | 0.05 | Aliphatic ester    |
| Propyl methacrylate     | 0.04 | Aliphatic ester    |
| Nonene                  | 0.01 | Alkene             |
| Ethyl angelate          | 0.09 | Aliphatic ester    |
| Tricyclene              | 0.03 | Monoterpene        |
| Isobutyl isobutyrate    | 0.79 | Aliphatic ester    |
| Tiglyl acetate?         | 0.11 | Aliphatic ester    |
| $\alpha$ -Thujene       | 0.01 | Monoterpene        |
| $\alpha$ -Pinene        | 9.54 | Monoterpene        |
| Methallyl isobutyrate   | 0.51 | Aliphatic ester    |
| Isobutyl methacrylate   | 0.62 | Aliphatic ester    |
| Camphene                | 0.43 | Monoterpene        |
| $\alpha$ -Fenchene      | 0.01 | Monoterpene        |
| Propyl 2-methylbutyrate | 0.03 | Aliphatic ester    |
| Thuja-2,4(10)-diene     | 0.06 | Monoterpene        |
| Benzaldehyde            | 0.01 | Simple phenolic    |

|                                |       |                      |
|--------------------------------|-------|----------------------|
| Butyl isobutyrate              | 0.03  | Aliphatic ester      |
| Methallyl methacrylate         | 0.88  | Aliphatic ester      |
| Isobutyl butyrate              | 8.69  | Aliphatic ester      |
| Sabinene                       | 0.03  | Monoterpene          |
| β-Pinene                       | 0.29  | Monoterpene          |
| 2-Methylbutyl propionate       | 0.03  | Aliphatic ester      |
| Octen-3-ol                     | 0.04  | Aliphatic alcohol    |
| Butyl methacrylate             | 0.04  | Aliphatic ester      |
| 3-Methylpentyl acetate         | 0.33  | Aliphatic ester      |
| Octan-3-one                    | 0.02  | Aliphatic ketone     |
| 2-Pentylfuran                  | 0.03  | Furan                |
| Myrcene                        | 0.01  | Monoterpene          |
| Propyl angelate                | 0.67  | Aliphatic ester      |
| Decane                         | 0.01  | Alkane               |
| Isobutyl 2-methylbutyrate      | 0.31  | Aliphatic ester      |
| Isobutyl isovalerate           | 0.07  | Aliphatic ester      |
| Isoamyl isobutyrate            | 8.14  | Aliphatic ester      |
| 2-Methylbutyl isobutyrate      | 1.53  | Aliphatic ester      |
| <i>para</i> -Cymene            | 0.07  | Monoterpene          |
| Methallyl 2-methylbutyrate     | 0.15  | Aliphatic ester      |
| Methallyl isovalerate?         | 0.05  | Aliphatic ester      |
| Limonene                       | 0.09  | Monoterpene          |
| 1,8-Cineole                    | 0.07  | Monoterpenic ether   |
| Unknown                        | 0.01  | Unknown              |
| 2-Methylbutyl methacrylate     | 0.67  | Aliphatic ester      |
| Isoamyl methacrylate           | 0.70  | Aliphatic ester      |
| Isobutyl angelate              | 4.79  | Aliphatic ester      |
| γ-Terpinene                    | 0.01  | Monoterpene          |
| Prenyl isobutyrate             | 0.40  | Aliphatic ester      |
| Unknown                        | 0.02  | Unknown              |
| Methallyl angelate             | 11.76 | Aliphatic ester      |
| Isobutyl senecioate            | 0.01  | Aliphatic ester      |
| 3-Methylpentyl propionate?     | 0.23  | Aliphatic ester      |
| <i>para</i> -Cymenene          | 0.01  | Monoterpene          |
| Tiglyl methacrylate            | 0.30  | Aliphatic ester      |
| α-Pinene oxide                 | 0.07  | Monoterpenic ether   |
| Isobutyl tiglate               | 0.06  | Aliphatic ester      |
| Butyl angelate                 | 0.30  | Aliphatic ester      |
| 2-Methylbutyl isovalerate?     | 0.02  | Aliphatic ester      |
| Linalool                       | 0.02  | Monoterpenic alcohol |
| Isoamyl 2-methylbutyrate       | 0.15  | Aliphatic ester      |
| 2-Methylbutyl 2-methylbutyrate | 0.29  | Aliphatic ester      |
| Amyl isovalerate               | 0.08  | Aliphatic ester      |
| 2-Methylbutyl isovalerate      | 0.08  | Aliphatic ester      |
| Methallyl tiglate              | 0.13  | Aliphatic ester      |

|                                        |        |                        |
|----------------------------------------|--------|------------------------|
| 3-Methylpentyl isobutyrate             | 4.83   | Aliphatic ester        |
| $\alpha$ -Campholenal                  | 0.07   | Monoterpenic aldehyde  |
| <i>trans</i> -Pinocarveol              | 4.86   | Monoterpenic alcohol   |
| <i>trans</i> -Verbenol                 | 0.11   | Monoterpenic alcohol   |
| Camphene hydrate                       | 0.21   | Monoterpenic alcohol   |
| 3-Methylpentyl methacrylate            | 1.60   | Aliphatic ester        |
| Isoamyl angelate                       | 5.19   | Aliphatic ester        |
| Pinocavone                             | 1.96   | Monoterpenic ketone    |
| 2-Methylbutyl angelate                 | 5.56   | Aliphatic ester        |
| Unknown                                | 0.02   | Oxygenated monoterpene |
| Borneol                                | 0.25   | Monoterpenic alcohol   |
| Angelyl angelate?                      | 0.56   | Aliphatic ester        |
| Isopinocampone                         | 0.16   | Monoterpenic ketone    |
| Terpinen-4-ol                          | 0.04   | Monoterpenic alcohol   |
| Hexyl methacrylate?                    | 0.03   | Aliphatic ester        |
| Isobutyl 3-hydroxy-2-methylenebutyrate | 0.06   | Aliphatic ester        |
| <i>para</i> -Cymen-8-ol                | 0.03   | Monoterpenic alcohol   |
| <i>trans</i> -Isocarveol               | 0.02   | Monoterpenic alcohol   |
| $\alpha$ -Terpineol                    | 0.01   | Monoterpenic alcohol   |
| Amyl angelate                          | 0.05   | Aliphatic ester        |
| Myrtenal                               | 0.59   | Monoterpenic aldehyde  |
| Myrtenol                               | 0.36   | Monoterpenic alcohol   |
| 2-Methylbutyl tiglate                  | 0.15   | Aliphatic ester        |
| Tiglyl angelate                        | 0.73   | Aliphatic ester        |
| Verbenone                              | 0.05   | Monoterpenic ketone    |
| 3-Methylpentyl 2-methylbutyrate?       | 0.80   | Aliphatic ester        |
| 3-Methylpentyl isovalerate?            | 0.04   | Aliphatic ester        |
| <i>trans</i> -Carveol                  | 0.01   | Monoterpenic alcohol   |
| 4-Methylhexyl isobutyrate              | 0.04   | Aliphatic ester        |
| Myrtenyl formate?                      | 0.02   | Monoterpenic ester     |
| Carvone                                | 0.03   | Monoterpenic ketone    |
| 2-Hydroxy-2-methylbut-3-enyl angelate  | 0.11   | Aliphatic ester        |
| Lepalone                               | 0.01   | Monoterpenic ketone    |
| 3-Methylpentyl angelate                | 13.38  | Aliphatic ester        |
| Linalyl acetate                        | 0.12   | Monoterpenic ester     |
| (3Z)-Hexenyl angelate                  | [0.04] | Aliphatic ester        |
| Bornyl acetate                         | [0.04] | Monoterpenic ester     |
| Isoamyl 3-hydroxy-2-methylenebutyrate  | 0.02   | Aliphatic ester        |
| Hexyl angelate                         | 0.04   | Aliphatic ester        |
| <i>trans</i> -Pinocarvyl acetate       | 0.02   | Monoterpenic ester     |
| 3-Methylpentyl tiglate                 | 0.08   | Aliphatic ester        |
| (2E,4E)-Decadienal                     | 0.01   | Aliphatic aldehyde     |
| Benzyl isobutyrate                     | 0.01   | Phenolic ester         |
| 7 $\beta$ H-Silphiperfol-5-ene         | 0.04   | Sesquiterpene          |
| Unknown                                | 0.01   | Unknown                |

|                                              |              |                          |
|----------------------------------------------|--------------|--------------------------|
| Silphiperfol-5-ene analog                    | 0.02         | Sesquiterpene            |
| Cyclosativene II                             | 0.04         | Sesquiterpene            |
| $\alpha$ -Copaene                            | 0.03         | Sesquiterpene            |
| 4-Methylpentyl 3-hydroxy-2-methylenebutyrate | 0.01         | Aliphatic ester          |
| Isobutyl phenylacetate                       | 0.01         | Phenolic ester           |
| $\beta$ -Caryophyllene                       | 0.03         | Sesquiterpene            |
| Myrtenyl propionate?                         | 0.01         | Monoterpenic ester       |
| Myrtenyl isobutyrate                         | 0.01         | Monoterpenic ester       |
| Germacrene D                                 | 0.03         | Sesquiterpene            |
| $\beta$ -Selinene                            | 0.02         | Sesquiterpene            |
| $\alpha$ -Curcumene                          | 0.02         | Sesquiterpene            |
| Bicyclogermacrene                            | 0.02         | Sesquiterpene            |
| (3Z,6E)- $\alpha$ -Farnesene                 | 0.01         | Sesquiterpene            |
| (3E,6E)- $\alpha$ -Farnesene                 | 0.02         | Sesquiterpene            |
| $\delta$ -Cadinene                           | 0.02         | Sesquiterpene            |
| Caryophyllene oxide                          | 0.01         | Sesquiterpenic ether     |
| Unknown                                      | 0.02         | Oxygenated sesquiterpene |
| Unknown                                      | 0.03         | Unknown                  |
| Neophytadiene                                | 0.02         | Diterpene                |
| <b>Consolidated total</b>                    | <b>98.35</b> |                          |

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

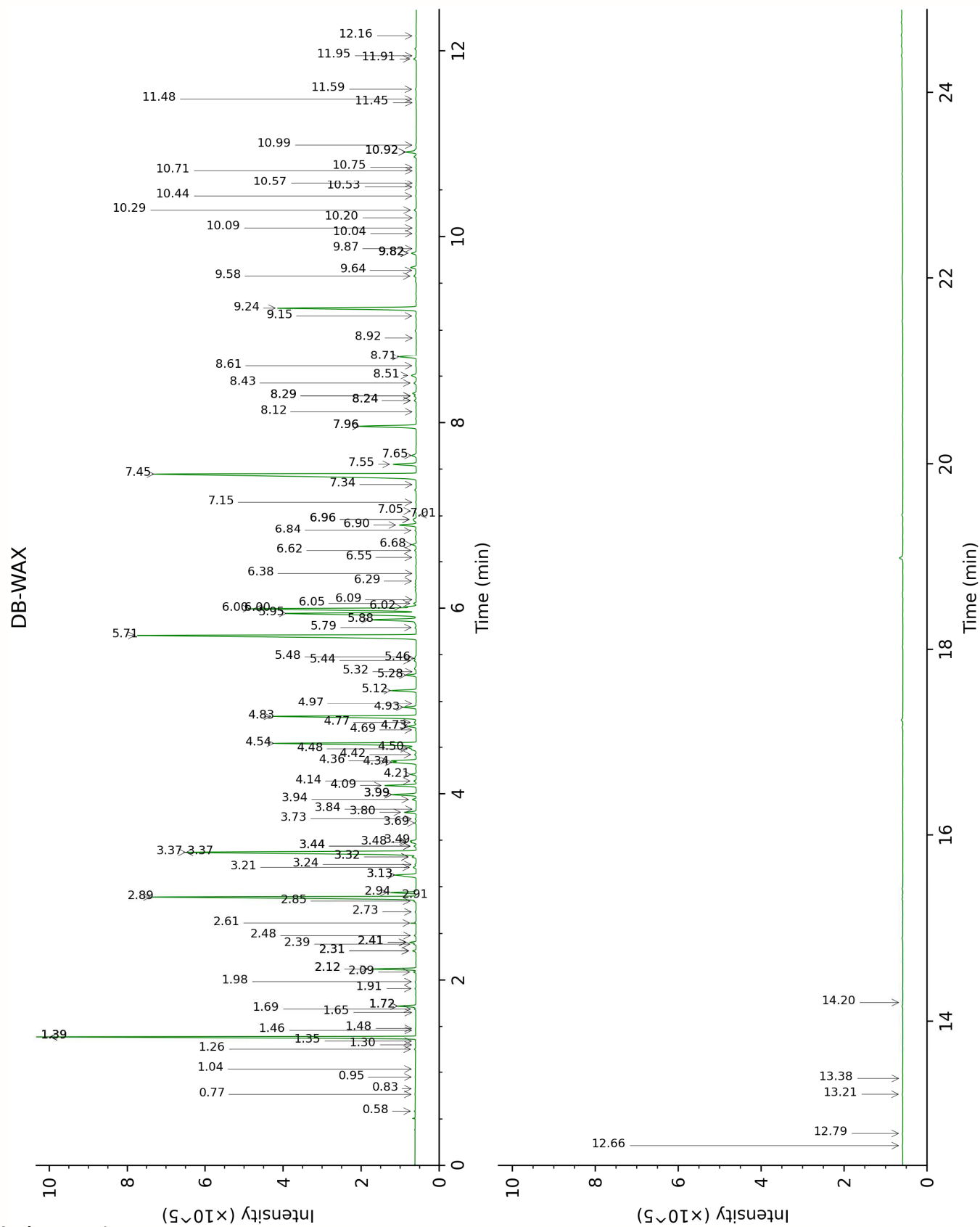
Note: no correction factor was applied

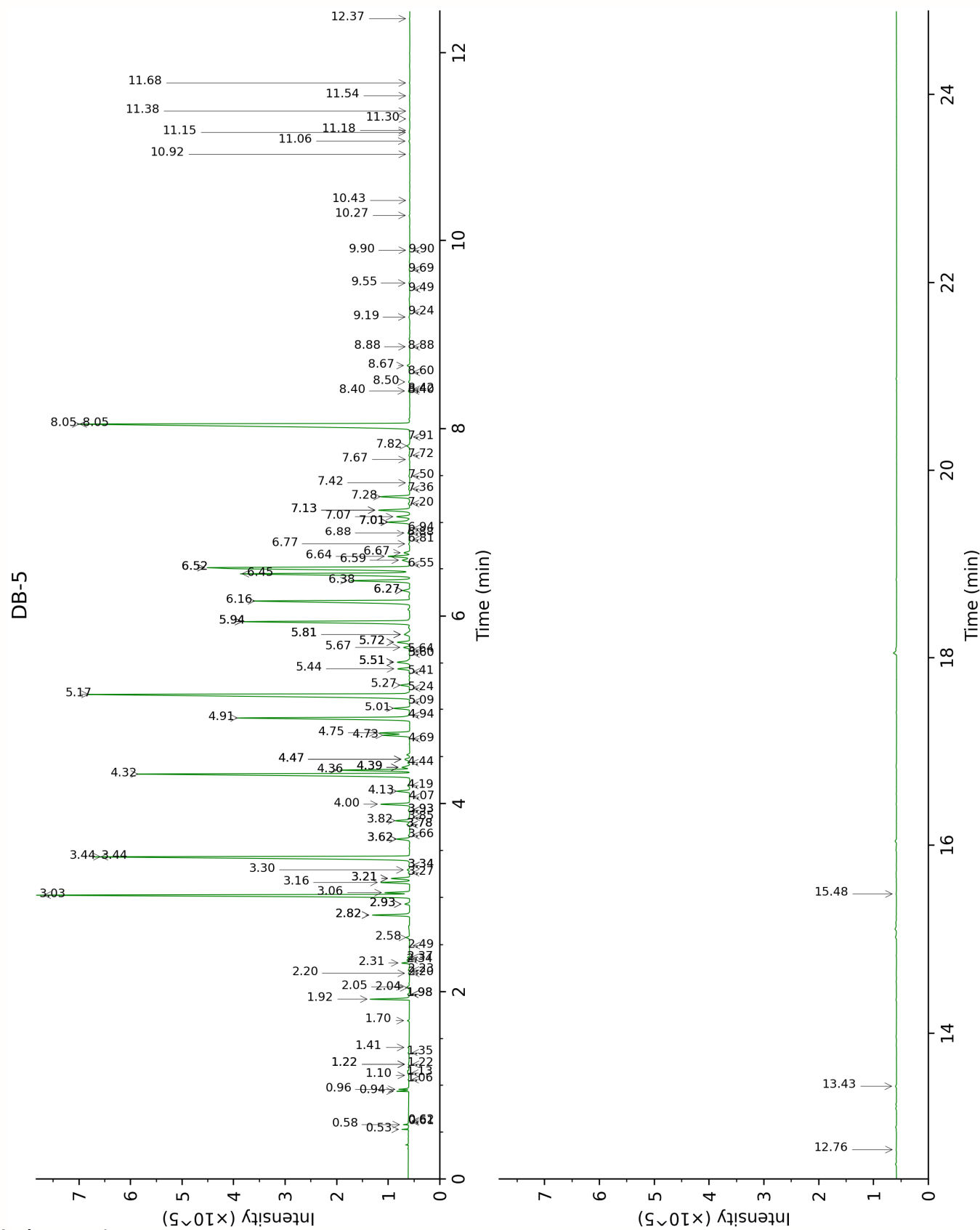
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

| Isobutanol              | Column DB-WAX |        |        | Column DB-5 |       |        |
|-------------------------|---------------|--------|--------|-------------|-------|--------|
|                         | 2.09          | 1062.5 | 0.06   | 0.53        | 620.9 | 0.05   |
| Methallyl alcohol       | 3.44*         | 1175.9 | [0.06] | 0.58        | 639.2 | 0.05   |
| 3-Methyl-2-butanone     | 0.83          | 900.2  | 0.01   | 0.61        | 649.2 | tr     |
| 2-Methylbutyral         | 0.76          | 884.4  | 0.01   | 0.62        | 653.8 | tr     |
| Isoamyl alcohol         | 3.48          | 1179.1 | 0.13   | 0.94        | 731.5 | 0.14   |
| 2-Methylbutanol         | 3.49          | 1180.2 | 0.16   | 0.96        | 734.4 | 0.14   |
| (2Z)-Pentenol           | 4.98          | 1290.4 | 0.02   | 1.06        | 749.3 | 0.01   |
| Ethyl isobutyrate       | 1.04          | 934.6  | 0.01   | 1.10        | 756.0 | 0.01   |
| Toluene                 | 1.48          | 1002.3 | 0.01   | 1.13        | 759.5 | 0.03   |
| Methyl 2-methylbutyrate | 1.30          | 978.3  | tr     | 1.22*       | 773.1 | [0.02] |
| Methyl isovalerate      | 1.39*         | 992.5  | [9.45] | 1.22*       | 773.1 | [0.02] |
| Isobutyl acetate        | 1.35          | 985.0  | 0.01   | 1.22*       | 773.1 | [0.02] |
| Octene                  | 0.58          | 818.6  | 0.01   | 1.35        | 791.9 | 0.02   |
| Hexanal                 | 1.91          | 1044.8 | 0.02   | 1.41        | 800.5 | 0.02   |
| Methyl angelate         | 2.41*         | 1094.3 | [0.15] | 1.70        | 826.5 | 0.03   |
| 3-Methylpentanol        | 5.12          | 1298.9 | 0.74   | 1.92        | 845.8 | 0.72   |
| (2E)-Hexenal            | 3.44*         | 1175.9 | [0.06] | 1.98*       | 850.2 | [0.05] |
| Ethyl 2-methylbutyrate  | 1.69          | 1023.0 | 0.03   | 1.98*       | 850.2 | [0.05] |
| Propyl isobutyrate      | 1.72*         | 1026.1 | [0.46] | 2.04        | 856.0 | 0.03   |
| (3Z)-Hexenol            | 5.79          | 1347.0 | 0.04   | 2.05        | 856.8 | 0.05   |
| (2E)-Hexenol            | 6.09          | 1368.3 | 0.01   | 2.20*       | 869.0 | [0.02] |
| Isobutyl propionate     | 1.98          | 1052.1 | 0.03   | 2.20*       | 869.0 | [0.02] |
| Hexanol                 | 5.48          | 1324.6 | 0.03   | 2.23        | 872.0 | 0.02   |
| Isoamyl acetate         | 2.41*         | 1094.3 | [0.15] | 2.31        | 878.4 | 0.15   |
| 2-Methylbutyl acetate   | 2.39          | 1092.4 | 0.05   | 2.34        | 881.0 | 0.05   |
| Propyl methacrylate     | 2.48          | 1100.2 | 0.05   | 2.37        | 883.3 | 0.04   |
| Nonene                  | 0.95          | 920.6  | 0.01   | 2.49        | 894.0 | 0.01   |
| Ethyl angelate          | 2.85          | 1129.3 | 0.06   | 2.58        | 901.4 | 0.09   |
| Tricyclene              | 1.26          | 970.8  | 0.03   | 2.82*       | 917.9 | [0.82] |
| Isobutyl isobutyrate    | 2.12*         | 1065.7 | [1.06] | 2.82*       | 917.9 | [0.82] |
| Tiglyl acetate?         | 3.94          | 1214.1 | 0.11   | 2.93*       | 925.8 | [0.11] |
| $\alpha$ -Thujene       | 1.46          | 1000.2 | 0.01   | 2.93*       | 925.8 | [0.11] |
| $\alpha$ -Pinene        | 1.39*         | 992.5  | [9.45] | 3.03        | 932.1 | 9.54   |
| Methallyl isobutyrate   | 3.13*         | 1151.4 | [0.82] | 3.06        | 933.9 | 0.51   |
| Isobutyl                | 2.94          | 1136.6 | 0.62   | 3.16        | 941.2 | 0.62   |

|                                                                                                     |       |        |        |       |        |        |
|-----------------------------------------------------------------------------------------------------|-------|--------|--------|-------|--------|--------|
| methacrylate                                                                                        |       |        |        |       |        |        |
| Camphene                                                                                            | 1.72* | 1026.1 | [0.46] | 3.21* | 944.0  | [0.43] |
| $\alpha$ -Fenchene                                                                                  | 1.65  | 1019.2 | 0.01   | 3.21* | 944.0  | [0.43] |
| Propyl 2-methylbutyrate                                                                             | 2.61  | 1110.8 | 0.05   | 3.27  | 948.0  | 0.03   |
| Thuja-2,4(10)-diene                                                                                 | 2.32* | 1085.2 | [0.10] | 3.30  | 950.1  | 0.06   |
| Benzaldehyde                                                                                        | 7.34  | 1458.8 | 0.01   | 3.34* | 953.2  | [0.03] |
| Butyl isobutyrate                                                                                   | 2.73  | 1120.2 | 0.03   | 3.34* | 953.2  | [0.03] |
| Methallyl methacrylate                                                                              | 4.09  | 1225.2 | 0.88   | 3.44* | 959.4  | [9.58] |
| Isobutyl butyrate                                                                                   | 2.89  | 1132.8 | 8.69   | 3.44* | 959.4  | [9.58] |
| Sabinene                                                                                            | 2.32* | 1085.2 | [0.10] | 3.62* | 972.1  | [0.32] |
| $\beta$ -Pinene                                                                                     | 2.12* | 1065.7 | [1.06] | 3.62* | 972.1  | [0.32] |
| 2-Methylbutyl propionate                                                                            | 3.24  | 1160.3 | 0.03   | 3.66  | 974.6  | 0.03   |
| Octen-3-ol                                                                                          | 6.84  | 1422.2 | 0.04   | 3.78* | 982.4  | [0.09] |
| Butyl methacrylate                                                                                  | 3.69  | 1195.5 | 0.04   | 3.78* | 982.4  | [0.09] |
| 3-Methylpentyl acetate                                                                              | 3.80  | 1204.0 | 0.34   | 3.82  | 985.2  | 0.33   |
| Octan-3-one                                                                                         | 3.99* | 1218.0 | [0.70] | 3.86  | 987.6  | 0.02   |
| 2-Pentylfuran                                                                                       | 3.73  | 1198.9 | 0.03   | 3.93* | 992.6  | [0.05] |
| Myrcene                                                                                             | 2.91  | 1133.9 | 0.01   | 3.93* | 992.6  | [0.05] |
| Propyl angelate                                                                                     | 3.99* | 1218.0 | [0.70] | 4.00  | 997.0  | 0.67   |
| Decane                                                                                              | 1.39* | 992.5  | [9.45] | 4.07  | 1002.1 | 0.01   |
| Isobutyl 2-methylbutyrate                                                                           | 3.13* | 1151.4 | [0.82] | 4.13  | 1006.1 | 0.31   |
| Isobutyl isovalerate                                                                                | 3.32* | 1166.7 | [0.13] | 4.19  | 1010.0 | 0.07   |
| Isoamyl isobutyrate                                                                                 | 3.37* | 1170.7 | [9.76] | 4.32  | 1017.7 | 8.14   |
| 2-Methylbutyl isobutyrate                                                                           | 3.37* | 1170.7 | [9.76] | 4.36  | 1020.3 | 1.53   |
| <i>para</i> -Cymene                                                                                 | 4.14  | 1228.7 | 0.07   | 4.39* | 1022.2 | [0.23] |
| Methallyl 2-methylbutyrate                                                                          | 4.21  | 1234.0 | 0.15   | 4.39* | 1022.2 | [0.23] |
| Methallyl isovalerate?                                                                              | 4.42  | 1249.5 | 0.05   | 4.44  | 1025.3 | 0.05   |
| Limonene                                                                                            | 3.21  | 1157.8 | 0.09   | 4.47* | 1027.6 | [0.16] |
| 1,8-Cineole                                                                                         | 3.32* | 1166.7 | [0.13] | 4.47* | 1027.6 | [0.16] |
| Unknown CHNO I<br>[m/z 43, 41 (84), 71<br>(62), 69 (59), 68<br>(51), 67 (48), 93<br>(41)...156 (4)] |       |        |        | 4.69  | 1041.4 | 0.01   |

|                                                                                              |       |        |        |       |        |        |
|----------------------------------------------------------------------------------------------|-------|--------|--------|-------|--------|--------|
| 2-Methylbutyl methacrylate                                                                   | 4.36  | 1244.7 | 0.68   | 4.73  | 1043.8 | 0.67   |
| Isoamyl methacrylate                                                                         | 4.34  | 1243.5 | 0.75   | 4.75  | 1045.4 | 0.70   |
| Isobutyl angelate                                                                            | 4.54  | 1258.5 | 4.79   | 4.91† | 1055.5 | 4.87   |
| γ-Terpinene                                                                                  | 3.84  | 1206.5 | 0.01   | 4.94† | 1057.2 | 0.03   |
| Prenyl isobutyrate                                                                           | 4.93  | 1287.1 | 0.38   | 5.01  | 1062.0 | 0.40   |
| Unknown CHNO II<br>[m/z 71, 43 (28), 41 (21), 57 (19), 98 (11)... 116 (4), 129 (1), 156 (t)] | 7.01  | 1435.0 | 0.01   | 5.09  | 1066.9 | 0.02   |
| Methallyl angelate                                                                           | 5.71  | 1341.0 | 11.36  | 5.17  | 1071.9 | 11.76  |
| Isobutyl senecioate                                                                          | 5.32  | 1313.2 | 0.01   | 5.24  | 1076.1 | 0.01   |
| 3-Methylpentyl propionate?                                                                   | 4.73* | 1272.0 | [0.26] | 5.27  | 1078.1 | 0.23   |
| para-Cymenene                                                                                | 6.38  | 1388.3 | 0.01   | 5.41  | 1087.1 | 0.01   |
| Tiglyl methacrylate                                                                          | 6.02  | 1362.8 | 0.27   | 5.44  | 1089.2 | 0.30   |
| α-Pinene oxide                                                                               | 5.44  | 1321.7 | 0.07   | 5.51* | 1093.7 | [0.39] |
| Isobutyl tiglate                                                                             | 5.46  | 1323.5 | 0.06   | 5.51* | 1093.7 | [0.39] |
| Butyl angelate                                                                               | 5.28  | 1310.6 | 0.30   | 5.51* | 1093.7 | [0.39] |
| 2-Methylbutyl isovalerate?                                                                   | 4.69  | 1269.1 | 0.02   | 5.60  | 1099.1 | 0.02   |
| Linalool                                                                                     | 8.12  | 1517.3 | 0.01   | 5.64  | 1101.9 | 0.02   |
| Isoamyl 2-methylbutyrate                                                                     | 4.48  | 1254.1 | 0.15   | 5.67  | 1103.6 | 0.15   |
| 2-Methylbutyl 2-methylbutyrate                                                               | 4.50  | 1255.1 | 0.29   | 5.72* | 1107.2 | [0.34] |
| Amyl isovalerate                                                                             | 4.77  | 1275.0 | 0.08   | 5.72* | 1107.2 | [0.34] |
| 2-Methylbutyl isovalerate                                                                    | 4.73* | 1272.0 | [0.26] | 5.81* | 1112.5 | [0.21] |
| Methallyl tiglate                                                                            | 6.68  | 1410.9 | 0.13   | 5.81* | 1112.5 | [0.21] |
| 3-Methylpentyl isobutyrate                                                                   | 4.83  | 1279.9 | 4.83   | 5.94* | 1121.4 | [4.80] |
| α-Campholenal                                                                                | 7.05  | 1438.0 | 0.07   | 5.94* | 1121.4 | [4.80] |
| trans-Pinocarveol                                                                            | 9.24  | 1603.8 | 4.82   | 6.16  | 1135.6 | 4.86   |
| trans-Verbenol                                                                               | 9.58  | 1631.4 | 0.11   | 6.27* | 1142.8 | [0.19] |
| Camphene hydrate                                                                             | 8.51  | 1547.4 | 0.21   | 6.27* | 1142.8 | [0.19] |
| 3-Methylpentyl methacrylate                                                                  | 5.88  | 1353.0 | 1.52   | 6.38  | 1149.6 | 1.60   |
| Isoamyl angelate                                                                             | 5.95  | 1357.8 | 5.09   | 6.45  | 1154.3 | 5.19   |
| Pinocarpone                                                                                  | 7.96* | 1505.4 | [2.01] | 6.52* | 1158.6 | [7.69] |
| 2-Methylbutyl angelate                                                                       | 6.00* | 1361.4 | [6.36] | 6.52* | 1158.6 | [7.69] |

|                                                                                               |        |        |        |       |        |         |
|-----------------------------------------------------------------------------------------------|--------|--------|--------|-------|--------|---------|
| Unknown CHNO III<br>[m/z 96, 95 (72), 67<br>(45), 41 (42), 55<br>(32), 70 (27)... 152<br>(t)] | 10.20  | 1681.4 | 0.02   | 6.55  | 1160.8 | 0.02    |
| Borneol                                                                                       | 9.82*  | 1651.1 | [0.18] | 6.60  | 1163.7 | 0.25    |
| Angelyl angelate?                                                                             | 6.90   | 1427.0 | 0.54   | 6.64  | 1166.3 | 0.56    |
| Isopinocampone                                                                                | 7.65   | 1481.9 | 0.18   | 6.67  | 1168.8 | 0.16    |
| Terpinen-4-ol                                                                                 | 8.61   | 1555.4 | 0.02   | 6.77  | 1175.0 | 0.04    |
| Hexyl<br>methacrylate?                                                                        |        |        |        | 6.81  | 1177.8 | 0.03    |
| Isobutyl 3-<br>hydroxy-2-<br>methylenebutyrate                                                | 10.92* | 1741.0 | [0.40] | 6.88* | 1182.5 | [0.09]  |
| <i>para</i> -Cymen-8-ol                                                                       | 11.59  | 1798.1 | 0.03   | 6.88* | 1182.5 | [0.09]  |
| <i>trans</i> -Isocarveol                                                                      | 10.99  | 1747.3 | 0.03   | 6.94  | 1186.1 | 0.02    |
| $\alpha$ -Terpineol                                                                           | 9.82*  | 1651.1 | [0.18] | 7.01* | 1190.5 | [0.65]  |
| Amyl angelate                                                                                 | 6.62   | 1406.3 | 0.05   | 7.01* | 1190.5 | [0.65]  |
| Myrtenal                                                                                      | 8.71   | 1562.9 | 0.59   | 7.01* | 1190.5 | [0.65]  |
| Myrtenol                                                                                      | 10.92* | 1741.0 | [0.40] | 7.06  | 1194.2 | 0.36    |
| 2-Methylbutyl<br>tiglate                                                                      | 6.96*  | 1431.3 | [0.16] | 7.13* | 1198.7 | [0.88]  |
| Tiglyl angelate                                                                               | 7.56   | 1474.9 | 0.73   | 7.13* | 1198.7 | [0.88]  |
| Verbenone                                                                                     | 9.64   | 1636.2 | 0.03   | 7.20  | 1203.3 | 0.05    |
| 3-Methylpentyl 2-<br>methylbutyrate?                                                          | 6.00*  | 1361.4 | [6.36] | 7.28  | 1208.2 | 0.80    |
| 3-Methylpentyl<br>isovalerate?                                                                | 6.05   | 1365.4 | 0.08   | 7.36  | 1213.7 | 0.04    |
| <i>trans</i> -Carveol                                                                         | 11.45  | 1785.6 | 0.01   | 7.42  | 1218.2 | 0.01    |
| 4-Methylhexyl<br>isobutyrate                                                                  |        |        |        | 7.50  | 1223.1 | 0.04    |
| Myrtenyl formate?                                                                             | 8.92   | 1578.7 | 0.01   | 7.67  | 1235.1 | 0.02    |
| Carvone                                                                                       | 10.04  | 1668.0 | 0.02   | 7.72  | 1238.1 | 0.03    |
| 2-Hydroxy-2-<br>methylbut-3-enyl<br>angelate                                                  | 11.92  | 1826.7 | 0.09   | 7.82  | 1245.1 | 0.11    |
| Lepalone                                                                                      | 11.48  | 1788.9 | 0.04   | 7.91  | 1251.4 | 0.01    |
| 3-Methylpentyl<br>angelate                                                                    | 7.45   | 1467.2 | 13.38  | 8.05* | 1260.8 | [13.50] |
| Linalyl acetate                                                                               | 8.24*  | 1526.6 | [0.07] | 8.05* | 1260.8 | [13.50] |
| (3Z)-Hexenyl<br>angelate                                                                      | 8.29*  | 1530.5 | [0.07] | 8.40* | 1284.9 | [0.04]  |
| Bornyl acetate                                                                                | 8.29*  | 1530.5 | [0.07] | 8.40* | 1284.9 | [0.04]  |
| Isoamyl 3-hydroxy-<br>2-                                                                      | 12.16  | 1848.5 | 0.02   | 8.42  | 1286.1 | 0.02    |

|                                                                                   |       |        |        |       |        |        |
|-----------------------------------------------------------------------------------|-------|--------|--------|-------|--------|--------|
| methylenebutylate                                                                 |       |        |        |       |        |        |
| Hexyl angelate                                                                    | 7.96* | 1505.4 | [2.01] | 8.50  | 1291.4 | 0.04   |
| trans-Pinocarvyl acetate                                                          | 9.15  | 1597.1 | 0.04   | 8.60  | 1298.4 | 0.02   |
| 3-Methylpentyl tiglate                                                            | 8.24* | 1526.6 | [0.07] | 8.67  | 1303.3 | 0.08   |
| (2E,4E)-Decadienal                                                                |       |        |        | 8.88* | 1313.8 | [0.02] |
| Benzyl isobutyrate                                                                | 10.75 | 1727.1 | 0.01   | 8.88* | 1313.8 | [0.02] |
| 7βH-Silphiperfol-5-ene                                                            | 6.29  | 1382.5 | 0.03   | 9.19  | 1336.3 | 0.04   |
| Unknown CHNO V<br>[m/z 83, 55 (79), 82 (26), 43 (25), 45 (18), 69 (15)...166 (8)] | 14.20 | 2036.0 | 0.01   | 9.24  | 1340.0 | 0.01   |
| Silphiperfol-5-ene analog                                                         | 6.55  | 1400.8 | 0.02   | 9.49  | 1357.4 | 0.02   |
| Cyclosativene II                                                                  | 6.96* | 1431.3 | [0.16] | 9.55  | 1361.8 | 0.04   |
| α-Copaene                                                                         | 7.15  | 1444.9 | 0.02   | 9.69  | 1371.9 | 0.03   |
| 4-Methylpentyl 3-hydroxy-2-methylenebutylate                                      | 13.38 | 1958.4 | 0.01   | 9.90* | 1386.6 | [0.02] |
| Isobutyl phenylacetate                                                            | 11.95 | 1829.7 | 0.01   | 9.90* | 1386.6 | [0.02] |
| β-Caryophyllene                                                                   | 8.43  | 1541.1 | 0.10   | 10.27 | 1413.3 | 0.03   |
| Myrtenyl propionate?                                                              |       |        |        | 10.43 | 1425.2 | 0.01   |
| Myrtenyl isobutyrate                                                              | 10.57 | 1712.3 | 0.02   | 10.92 | 1462.5 | 0.01   |
| Germacrene D                                                                      | 9.82* | 1651.1 | [0.18] | 11.06 | 1473.0 | 0.03   |
| β-Selinene                                                                        | 9.87  | 1655.0 | 0.02   | 11.16 | 1479.9 | 0.02   |
| ar-Curcumene                                                                      | 10.71 | 1724.0 | 0.01   | 11.18 | 1481.5 | 0.02   |
| Bicyclogermacrene                                                                 | 10.09 | 1672.7 | 0.01   | 11.30 | 1490.7 | 0.02   |
| (3Z,6E)-α-Farnesene                                                               | 10.29 | 1688.2 | 0.08   | 11.38 | 1496.9 | 0.01   |
| (3E,6E)-α-Farnesene                                                               | 10.53 | 1708.8 | 0.03   | 11.54 | 1509.4 | 0.02   |
| δ-Cadinene                                                                        | 10.44 | 1700.7 | 0.02   | 11.68 | 1520.2 | 0.02   |
| Caryophyllene oxide                                                               | 12.79 | 1904.1 | 0.02   | 12.36 | 1574.2 | 0.01   |
| Unknown ARAN XXXV [m/z 203, 218 (33), 161 (22), 91 (20), 204 (16)]                | 13.21 | 1942.8 | 0.02   | 12.76 | 1605.2 | 0.02   |
| Unknown SASC VIII                                                                 |       |        |        | 13.43 | 1661.3 | 0.03   |

|                                                                            |       |        |      |       |        |      |
|----------------------------------------------------------------------------|-------|--------|------|-------|--------|------|
| [m/z 81, 41 (46), 79<br>(46), 93 (39), 91<br>(33), 107 (33)... 206<br>(8)] |       |        |      |       |        |      |
| Neophytadiene                                                              | 12.66 | 1892.1 | 0.02 | 15.48 | 1839.4 | 0.02 |
| Total reported                                                             |       | 97.41% |      |       | 98.31% |      |
|                                                                            |       |        |      |       |        |      |

\*: 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