

Date : 2025-11-17

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 25K04-PTH04

Customer Identification : Blue Tansy - Morocco - B50115R

Type : Essential Oil

Source : *Tanacetum annuum*

Customer : Plant Therapy

Checked and approved by:

Sylvain Mercier, M. Sc., Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.



Laboratoire
PhytoChemia

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 : 2025-11-14

PHYSICOCHEMICAL DATA

Refractive index : 1.5007 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2025-11-04

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
2-Methyl-3-buten-2-ol	tr	Aliphatic alcohol
1,3-Cyclohexadiene	0.01	Alkene
Isovaleral	0.01	Aliphatic aldehyde
2-Methylbutyral	0.01	Aliphatic aldehyde
Isoamyl alcohol	tr	Aliphatic alcohol
2-Methylbutanol	0.01	Aliphatic alcohol
Toluene	tr	Simple phenolic
Methyl 2-methylbutyrate	0.01	Aliphatic ester
Unknown	0.01	Unknown
Unknown	0.01	Unknown
Hexanal	tr	Aliphatic aldehyde
Ethyl 2-methylbutyrate	0.08	Aliphatic ester
Ethyl isovalerate	0.02	Aliphatic ester
Propyl isobutyrate	0.03	Aliphatic ester
Hexanol	0.01	Aliphatic alcohol
Hashishene	0.01	Monoterpene
Tricyclene	0.09	Monoterpene
Ethyl tiglate?	0.03	Aliphatic ester
α -Thujene	0.24	Monoterpene
α -Pinene	2.78	Monoterpene
Camphene	0.97	Monoterpene
Thujadiene isomer	0.01	Monoterpene
α -Fenchene	0.01	Monoterpene
Propyl 2-methylbutyrate	0.10	Aliphatic ester
Thuja-2,4(10)-diene	0.01	Monoterpene
Propyl isovalerate	0.02	Aliphatic ester
Sabinene	16.48	Monoterpene
β -Pinene	7.58	Monoterpene
6-Methyl-5-hepten-2-one	0.06	Aliphatic ketone
2-Pentylfuran	0.01	Furan
Myrcene	6.89	Monoterpene
Menthatriene isomer I	0.02	Monoterpene
α -Phellandrene	5.84	Monoterpene
Octanal	0.02	Aliphatic aldehyde
Δ^3 -Carene	0.04	Monoterpene
α -Terpinene	0.47	Monoterpene
Isoamyl isobutyrate	0.03	Aliphatic ester
<i>para</i> -Cymene	4.70	Monoterpene
β -Phellandrene	0.25	Monoterpene
Limonene	2.11	Monoterpene

1,8-Cineole	1.16	Monoterpenic ether
(Z)- β -Ocimene	0.01	Monoterpene
Butyl 2-methylbutyrate	0.02	Aliphatic ester
(E)- β -Ocimene	0.04	Monoterpene
γ -Terpinene	1.19	Monoterpene
Prenyl isobutyrate	0.01	Aliphatic ester
cis-Sabinene hydrate	0.07	Monoterpenic alcohol
Octanol	0.05	Aliphatic alcohol
Terpinolene	0.81	Monoterpene
para-Cymenene	0.04	Monoterpene
6,7-Epoxymyrcene	0.27	Monoterpenic ether
trans-Sabinene hydrate	0.04	Monoterpenic alcohol
Linalool	0.15	Monoterpenic alcohol
Nonanal	0.04	Aliphatic aldehyde
2-Methylbutyl 2-methylbutyrate	0.10	Aliphatic ester
Amyl isovalerate	0.03	Aliphatic ester
Unknown	0.18	Unknown
cis-para-Menth-2-en-1-ol	0.07	Monoterpenic alcohol
α -Campholenal	0.03	Monoterpenic aldehyde
Limona ketone	0.36	Normoterpenic ketone
Camphor	10.32	Monoterpenic ketone
α ,4-Dimethyl-3-cyclohexene-1-methanol	0.10	Normoterpenic alcohol
α ,4-Dimethyl-3-cyclohexene-1-methanol epimer	0.05	Normoterpenic alcohol
Sabinaketone	0.03	Normoterpenic ketone
Citronellal	0.01	Monoterpenic aldehyde
Pinocarvone	0.01	Monoterpenic ketone
Borneol	2.31	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Unknown	0.06	Oxygenated monoterpene
Terpinen-4-ol	1.66	Monoterpenic alcohol
Unknown	0.05	Unknown
para-Cymen-8-ol	0.04	Monoterpenic alcohol
α -Terpineol	0.16	Monoterpenic alcohol
Myrtenal	0.03	Monoterpenic aldehyde
Unknown	0.05	Unknown
Myrtenol	0.05	Monoterpenic alcohol
cis- α -Phellandrene epoxide (iPr vs Me)	0.11	Monoterpenic ether
Decanal	0.04	Aliphatic aldehyde
trans-Carveol	0.03	Monoterpenic alcohol
Unknown	0.05	Oxygenated monoterpene
(3Z)-Hexenyl 2-methylbutyrate	0.05	Aliphatic ester
trans- α -Phellandrene epoxide (iPr vs Me)	0.07	Monoterpenic ether
Cuminal	0.03	Monoterpenic aldehyde
Pulegone	0.04	Monoterpenic ketone

Neral	0.02	Monoterpenic aldehyde
Carvotanacetone	0.07	Monoterpenic ketone
Piperitone	0.05	Monoterpenic ketone
Phellandral	0.07	Monoterpenic aldehyde
α -Terpinen-7-al	0.04	Monoterpenic aldehyde
Bornyl acetate	0.02	Monoterpenic ester
Cuminol	0.03	Monoterpenic alcohol
Perilla alcohol	0.02	Monoterpenic alcohol
Thymol	0.85	Monoterpenic alcohol
4-Methylhexyl 2-methylbutyrate	0.06	Aliphatic ester
Carvacrol	0.03	Monoterpenic alcohol
6-Hydroxycarvotanacetone	0.03	Monoterpenic alcohol
<i>para</i> -Menth-5-en-1,2-diol isomer III	0.01	Monoterpenic alcohol
1,4- <i>para</i> -Menthadien-7-ol	0.03	Monoterpenic alcohol
Bicycloelemene	0.01	Sesquiterpene
α -Cubebene	0.04	Sesquiterpene
α -Copaene	0.53	Sesquiterpene
Modhephene	0.01	Sesquiterpene
(<i>E</i>)- β -Damascenone	0.03	Apocarotenoid
7- <i>epi</i> -Sesquithujene?	0.03	Sesquiterpene
β -Elemene	0.27	Sesquiterpene
Benzyl isovalerate	0.02	Phenolic ester
α -Cedrene	0.02	Sesquiterpene
β -Caryophyllene	2.11	Sesquiterpene
β -Copaene	0.01	Sesquiterpene
Octyl 2-methylbutyrate	0.07	Aliphatic ester
<i>trans</i> - α -Bergamotene	0.05	Sesquiterpene
Sesquisabinene A	0.71	Sesquiterpene
α -Humulene	0.18	Sesquiterpene
(<i>E</i>)- β -Farnesene	0.14	Sesquiterpene
4,5-diepi-Aristolochene	0.07	Sesquiterpene
Dehydrosesquicineole	0.05	Sesquiterpenic ether
γ -Murolene	0.03	Sesquiterpene
α -Amorphene	0.06	Sesquiterpene
Germacrene D	1.28	Sesquiterpene
γ -Curcumene	0.06	Sesquiterpene
β -Selinene	0.32	Sesquiterpene
Phenylethyl isovalerate	0.05	Phenolic ester
α -Curcumene	0.28	Sesquiterpene
Bicyclogermacrene	0.05	Sesquiterpene
Eremophilene	0.10	Sesquiterpene
Phenylethyl 2-methylbutyrate	0.20	Phenolic ester
α -Murolene	0.11	Sesquiterpene
δ -Guaiene	0.04	Sesquiterpene
γ -Cadinene	0.08	Sesquiterpene

3,6-Dihydrochamazulene	3.16	Azulene
β -Curcumene	0.02	Sesquiterpene
Dihydrochamazulene isomer I	0.64	Azulene
δ -Cadinene	0.21	Sesquiterpene
Dihydrochamazulene isomer II	0.07	Azulene
β -Sesquiphellandrene	0.58	Sesquiterpene
Dihydrochamazulene isomer III	0.04	Azulene
Phenylethyl angelate?	0.06	Phenolic ester
Isocaryophyllene epoxide B	0.02	Sesquiterpenic ether
α -Elemol	0.06	Sesquiterpenic alcohol
(E)-Nerolidol	0.04	Sesquiterpenic alcohol
Spathulenol	0.06	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.01	Sesquiterpenic ether
Caryophyllene oxide	0.30	Sesquiterpenic ether
10-epi-Junol	0.02	Sesquiterpenic alcohol
Humulene epoxide II	0.03	Sesquiterpenic ether
Junenol	0.03	Sesquiterpenic alcohol
5,6-Dihydrochamazulene	0.30	Azulene
Unknown	0.03	Sesquiterpene
7,12-Dehydro-5,6,7,8-tetrahydrochamazulene	1.11	Azulene
γ -Eudesmol	0.15	Sesquiterpenic alcohol
Eremoligenol	0.06	Sesquiterpenic alcohol
τ -Cadinol	0.04	Sesquiterpenic alcohol
β -Eudesmol	0.58	Sesquiterpenic alcohol
Dihydrochamazulene isomer IV	0.88	Azulene
α -Eudesmol	0.02	Sesquiterpenic alcohol
(3E,5E)-7-Hydroxyfarnesene	0.03	Sesquiterpenic alcohol
Unknown	0.13	Azulene
Chamazulene	7.38	Azulene
α -Phellandrene dimer II	0.05	Diterpene
Dehydrochamazulene	0.05	Azulene
Phytone	0.07	Terpenic ketone
<i>meta</i> -Camphorene	0.20	Diterpene
9-(15,16-Dihydro-15-methyleneneryl)- α -terpinene?	0.15	Homoditerpene
9-(15,16-Dihydro-15-methyleneneryl)- <i>para</i> -cymene?	0.03	Homoditerpene
9-(15,16-Dihydro-15-methylenegeranyl)- <i>para</i> -cymene	0.20	Homoditerpene
9-(15,16-Dihydro-15-methylenegeranyl)- α -terpinene	0.87	Homoditerpene
Unknown	0.28	Unknown
Unknown	0.98	Unknown
Unknown	0.07	Unknown
Unknown	0.05	Unknown

Consolidated total	96.43	
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tr: The compound has been detected below 0.005% of the total signal

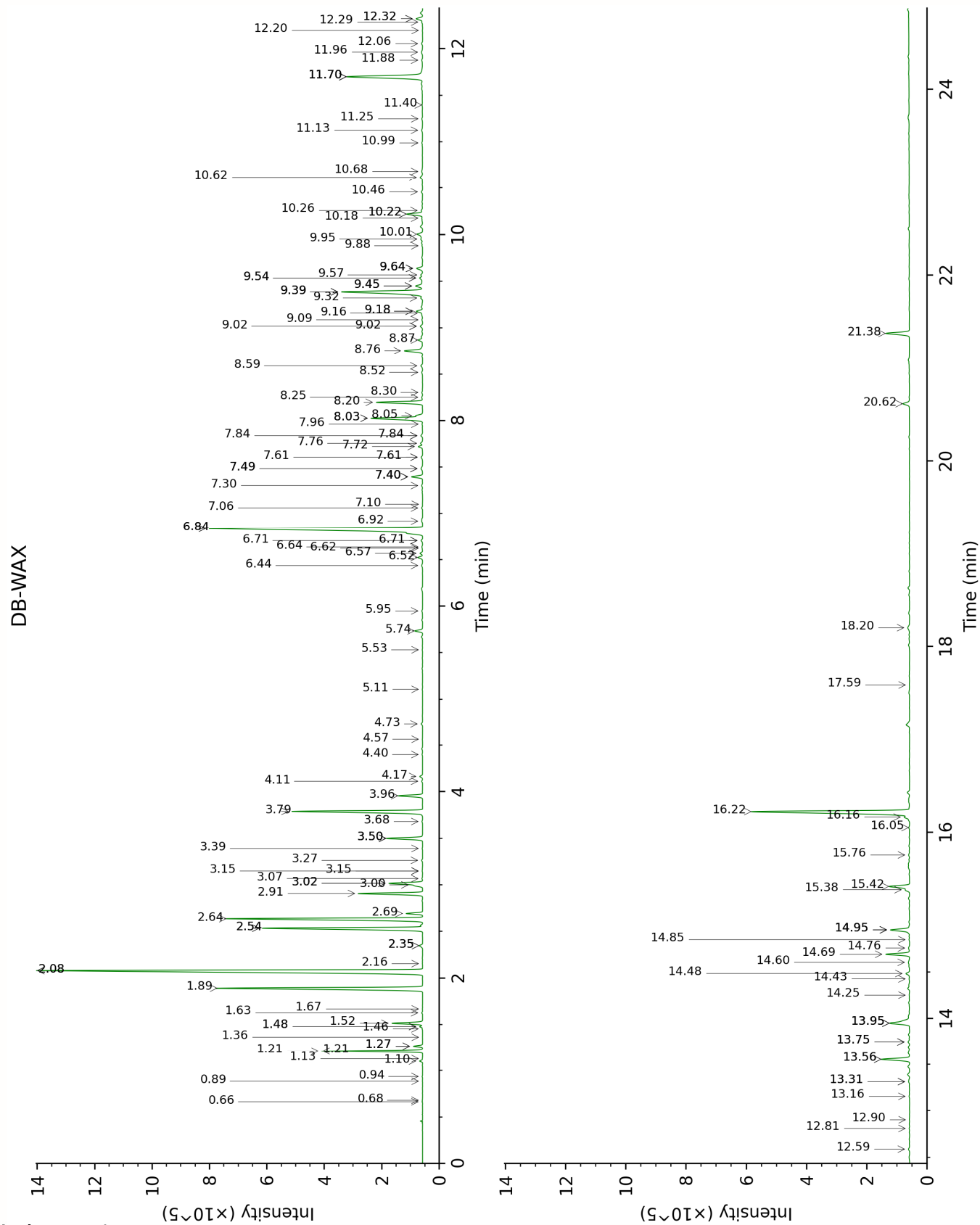
Note: no correction factor was applied

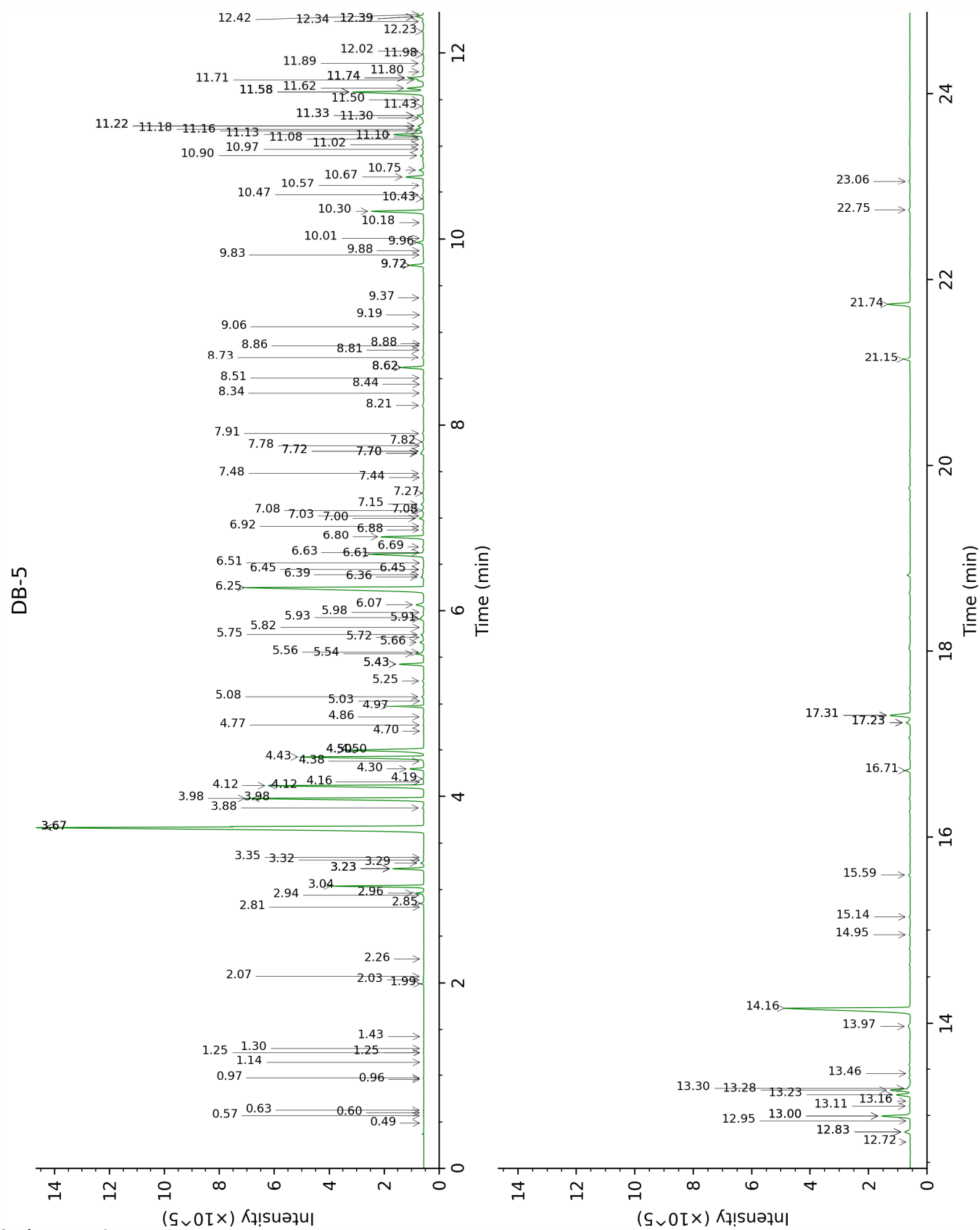
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

2-Methyl-3-buten-2-ol	Column DB-WAX			Column DB-5		
	1.36	1013.6	tr	0.49	594.8	tr
1,3-Cyclohexadiene				0.57	630.9	0.01
Isovaleral	0.68	887.1	0.01	0.60	642.6	0.01
2-Methylbutyral	0.66	880.5	0.01	0.63	652.6	0.01
Isoamyl alcohol	3.15*	1177.0	[0.01]	0.96	732.6	tr
2-Methylbutanol	3.15*	1177.0	[0.01]	0.97	734.7	0.01
Toluene	1.27*	1001.5	[0.24]	1.14	758.9	tr
Methyl 2-methylbutyrate	1.13	977.2	0.01	1.25*	774.8	[0.01]
Unknown HEIT III [m/z 73, 41 (54), 87 (50), 56 (47), 54 (29), 55 (25), 100 (23)... 115? (6)]	0.89	934.7	0.01	1.25*	774.8	[0.01]
Unknown HEIT II [m/z 73, 87 (52), 41 (45), 56 (42), 100 (29)...]	0.94	943.6	0.01	1.30	781.6	0.01
Hexanal	1.67	1044.8	tr	1.43	800.0	tr
Ethyl 2-methylbutyrate	1.48*	1025.4	[0.07]	1.99	849.8	0.08
Ethyl isovalerate	1.63	1040.6	0.02	2.03	853.3	0.02
Propyl isobutyrate	1.48*	1025.4	[0.07]	2.07	856.5	0.03
Hexanol	5.11	1322.1	0.01	2.26	872.2	0.01
Hashishene	1.21*	992.1	[2.79]	2.81	916.2	0.01
Tricyclene	1.10	972.5	0.08	2.85	918.8	0.09
Ethyl tiglate?	3.26	1186.2	0.03	2.94	924.7	0.03
α -Thujene	1.27*	1001.5	[0.24]	2.96	926.2	0.24
α -Pinene	1.21*	992.1	[2.79]	3.04	931.4	2.78
Camphene	1.52	1029.0	0.97	3.23*	943.9	[0.97]
Thujadiene isomer	2.16	1095.0	0.01	3.23*	943.9	[0.97]
α -Fenchene	1.46	1022.9	0.01	3.23*	943.9	[0.97]
Propyl 2-methylbutyrate	2.35*	1112.9	[0.13]	3.29	947.9	0.10
Thuja-2,4(10)-diene	2.08*	1087.3	[16.44]	3.32	950.0	0.01
Propyl isovalerate	2.54*	1127.9	[5.78]	3.35	951.9	0.02
Sabinene	2.08*	1087.3	[16.44]	3.67*	973.4	[24.06]
β -Pinene	1.89	1067.8	7.58	3.67*	973.4	[24.06]
6-Methyl-5-hepten-2-one	4.73	1296.1	0.05	3.88	987.5	0.06
2-Pentylfuran	3.39	1196.4	0.01	3.98*	994.4	[6.90]
Myrcene	2.64	1136.0	6.89	3.98*	994.4	[6.90]
Menthatriene isomer I	3.07	1170.5	0.02	4.12*	1003.5	[5.86]
α -Phellandrene	2.54*	1127.9	[5.78]	4.12*	1003.5	[5.86]
Octanal	4.11	1250.5	0.03	4.16	1006.1	0.02
Δ^3 -Carene	2.35*	1112.9	[0.13]	4.19	1008.3	0.04
α -Terpinene	2.69	1140.5	0.46	4.30	1015.0	0.47
Isoamyl isobutyrate	3.02*	1166.4	[1.17]	4.38	1020.2	0.03

<i>para</i> -Cymene	3.79	1226.6	4.74	4.43	1023.1	4.70
β -Phellandrene	3.00	1165.0	0.25	4.50*	1027.7	[3.52]
Limonene	2.91	1157.7	2.11	4.50*	1027.7	[3.52]
1,8-Cineole	3.02*	1166.4	[1.17]	4.50*	1027.7	[3.52]
(Z)- β -Ocimene	3.50*	1205.2	[1.23]	4.70	1040.7	0.01
Butyl 2-methylbutyrate	3.50*	1205.2	[1.23]	4.77	1044.8	0.02
(E)- β -Ocimene	3.68	1218.6	0.02	4.86	1050.4	0.04
γ -Terpinene	3.50*	1205.2	[1.23]	4.97	1057.9	1.19
Prenyl isobutyrate	4.56	1283.9	0.01	5.03	1061.7	0.01
<i>cis</i> -Sabinene hydrate	6.57	1430.3	0.09	5.08	1064.6	0.07
Octanol	7.84*	1527.6	[0.07]	5.25	1075.4	0.05
Terpinolene	3.96	1239.0	0.81	5.43*	1086.9	[0.85]
<i>para</i> -Cymenene	5.95	1384.1	0.04	5.43*	1086.9	[0.85]
6,7-Epoxymyrcene	5.74	1368.3	0.28	5.54	1094.0	0.27
<i>trans</i> -Sabinene hydrate	7.61*	1509.3	[0.06]	5.56	1095.0	0.04
Linalool	7.72	1518.3	0.15	5.66	1101.8	0.15
Nonanal	5.53	1353.4	0.01	5.72	1105.2	0.04
2-Methylbutyl 2-methylbutyrate	4.17	1254.3	0.10	5.75	1107.1	0.10
Amyl isovalerate	4.40	1271.7	0.02	5.82	1112.1	0.03
Unknown TAAN I [m/z 71, 43 (95), 81 (82), 79 (73), 67 (67), 41 (49), 109 (14)...]	6.52	1427.0	0.17	5.91	1118.0	0.18
<i>cis-para</i> -Menth-2-en-1-ol	7.76	1521.1	0.08	5.93	1118.9	0.07
α -Campholenal	6.64	1435.6	0.03	5.98	1122.5	0.03
Limona ketone	7.40*	1493.3	[0.40]	6.07	1127.8	0.36
Camphor	6.84*	1450.9	[10.98]	6.25	1139.8	10.32
α ,4-Dimethyl-3-cyclohexene-1-methanol				6.36	1147.2	0.10
α ,4-Dimethyl-3-cyclohexene-1-methanol epimer				6.39	1148.8	0.05
Sabinaketone	8.30	1564.3	0.03	6.44*	1152.4	[0.04]
Citronellal	6.62	1434.5	0.01	6.44*	1152.4	[0.04]
Pinocarvone	7.49*	1499.9	[0.09]	6.52	1157.0	0.01
Borneol	9.39*	1651.9	[3.94]	6.61	1163.1	2.31
Unknown CALU II [m/z 95, 110 (38), 81 (21), 79 (16)... 152 (7)]	7.30	1486.1	0.04	6.63	1164.3	0.03
Unknown CALU III [m/z 95, 110 (43), 81 (28), 41 (15)... 152 (8)]	7.40*	1493.3	[0.40]	6.69	1168.1	0.06
Terpinen-4-ol	8.20	1555.9	1.66	6.80	1175.2	1.66
Unknown EUDI I [m/z 69,	7.49*	1499.9	[0.09]	6.88	1180.5	0.05

68 (65), 110 (51), 67 (39), 41 (27), 83 (26)...						
<i>para</i> -Cymen-8-ol	11.13	1799.3	0.05	6.92	1183.0	0.04
α -Terpineol	9.39*	1651.9	[3.94]	7.00	1188.6	0.16
Myrtenal	8.25	1560.2	0.04	7.03	1190.3	0.03
Unknown ABCO I [m/z 79, 107 (72), 41 (58), 55 (47), 77 (41), 67 (41)...				7.08*	1194.0	[0.09]
Myrtenol	10.46	1741.7	0.05	7.08*	1194.0	[0.09]
<i>cis</i> - α -Phellandrene epoxide (iPr vs Me)	10.62	1755.5	0.11	7.15	1198.5	0.11
Decanal	6.92	1457.1	0.04	7.27	1206.2	0.04
<i>trans</i> -Carveol	10.99	1787.6	0.03	7.44	1217.6	0.03
Unknown TAAN II [m/z 93, 41 (68), 79 (67), 91 (66), 92 (57), 67 (42), 77 (41)... 150 (12)]				7.48	1220.6	0.05
(3Z)-Hexenyl 2- methylbutyrate	6.71*	1440.8	[0.06]	7.70*	1235.3	[0.12]
<i>trans</i> - α -Phellandrene epoxide (iPr vs Me)	11.70*	1850.6	[3.76]	7.70*	1235.3	[0.12]
Cuminal	10.18	1717.4	0.03	7.72*	1236.8	[0.05]
Pulegone	8.52	1581.3	0.04	7.72*	1236.8	[0.05]
Neral	9.09	1627.2	0.03	7.78	1240.8	0.02
Carvotanacetone	9.02*	1621.5	[0.10]	7.82	1243.7	0.07
Piperitone	9.45*	1657.1	[0.34]	7.91	1249.8	0.05
Phellandral	9.57	1666.8	0.07	8.21	1270.4	0.07
α -Terpinen-7-al	10.26	1724.4	0.05	8.34	1279.4	0.04
Bornyl acetate	7.84*	1527.6	[0.07]	8.44	1285.9	0.02
Cuminol	13.75*	2041.6	[0.06]	8.51	1290.5	0.03
Perilla alcohol	12.81	1952.5	0.02	8.62*	1298.3	[0.81]
Thymol	14.69	2134.5	0.85	8.62*	1298.3	[0.81]
4-Methylhexyl 2- methylbutyrate	7.06	1467.8	0.03	8.73	1306.0	0.06
Carvacrol	14.95*	2161.1	[0.83]	8.82	1308.6	0.03
6- Hydroxycarvotanacetone	11.25	1809.9	0.03	8.86	1311.6	0.03
<i>para</i> -Menth-5-en-1,2- diol isomer III	14.76	2141.3	0.06	8.88	1313.4	0.01
1,4- <i>para</i> -Menthadien-7- ol	13.32*	1999.7	[0.06]	9.06	1326.2	0.03
Bicycloelemene	6.71*	1440.8	[0.06]	9.19	1335.2	0.01
α -Cubebene	6.44	1420.4	0.05	9.37	1348.2	0.04
α -Copaene	6.84*	1450.9	[10.98]	9.72*	1373.0	[0.54]
Modhephene	7.10	1470.9	0.01	9.72*	1373.0	[0.54]

(E)- β -Damascenone	10.68	1761.0	0.05	9.83	1380.8	0.03
7-epi-Sesquithujene?	7.40*	1493.3	[0.40]	9.88	1384.0	0.03
β -Elemene	8.05	1544.5	0.20	9.96	1390.3	0.27
Benzyl isovalerate	11.40	1823.3	0.02	10.01	1393.5	0.02
α -Cedrene	7.61*	1509.3	[0.06]	10.18	1405.3	0.02
β -Caryophyllene	8.03*	1542.4	[2.16]	10.30	1414.4	2.11
β -Copaene	7.96	1537.4	0.02	10.43	1424.5	0.01
Octyl 2-methylbutyrate	8.59	1586.9	0.08	10.47	1427.7	0.07
<i>trans</i> - α -Bergamotene	8.03*	1542.4	[2.16]	10.57	1435.1	0.05
Sesquisabinene A	8.76	1600.2	0.73	10.67	1442.5	0.71
α -Humulene	8.87	1609.4	0.17	10.75	1448.0	0.18
(E)- β -Farnesene	9.18*	1634.8	[0.24]	10.90	1459.7	0.14
4,5-diepi-Aristolochene	9.02*	1621.5	[0.10]	10.97	1464.7	0.07
Dehydrosesquicineole	9.64*	1672.6	[0.26]	11.02	1468.3	0.05
γ -Muurolene	9.16	1633.1	0.05	11.08	1472.9	0.03
α -Amorphene	9.18*	1634.8	[0.24]	11.10	1474.5	0.06
Germacrene D	9.39*	1651.9	[3.94]	11.13	1476.6	1.28
γ -Curcumene	9.32	1646.5	0.07	11.16	1479.4	0.06
β -Selinene	9.45*	1657.1	[0.34]	11.18	1480.8	0.32
Phenylethyl isovalerate	12.59	1931.6	0.05	11.22*	1483.5	[0.33]
α -Curcumene	10.22*	1721.1	[0.61]	11.22*	1483.5	[0.33]
Bicyclogermacrene	9.64*	1672.6	[0.26]	11.30	1489.8	0.05
Eremophilene	9.54*	1664.2	[0.14]	11.33*	1491.8	[0.30]
Phenylethyl 2-methylbutyrate	12.32*	1906.7	[0.27]	11.33*	1491.8	[0.30]
α -Muurolene	9.64*	1672.6	[0.26]	11.43	1499.4	0.11
δ -Guaiene	9.54*	1664.2	[0.14]	11.50	1504.4	0.04
γ -Cadinene	9.95	1698.5	0.08	11.58*	1511.0	[3.26]
3,6-Dihydrochamazulene	11.70*	1850.6	[3.76]	11.58*	1511.0	[3.26]
β -Curcumene	9.88	1692.6	0.02	11.58*	1511.0	[3.26]
Dihydrochamazulene isomer I	11.70*	1850.6	[3.76]	11.62	1514.3	0.64
δ -Cadinene	10.00	1702.8	0.27	11.71	1521.2	0.21
Dihydrochamazulene isomer II	11.96	1874.4	0.07	11.74*	1523.0	[0.65]
β -Sesquiphellandrene	10.22*	1721.1	[0.61]	11.74*	1523.0	[0.65]
Dihydrochamazulene isomer III	11.88	1866.6	0.04	11.80	1528.1	0.04
Phenylethyl angelate?	13.75*	2041.6	[0.06]	11.89	1535.3	0.06
Isocaryophyllene epoxide B	11.70*	1850.6	[3.76]	11.98	1542.7	0.02
α -Elemol	13.56*	2022.8	[1.08]	12.02	1545.7	0.06
(E)-Nerolidol	13.32*	1999.7	[0.06]	12.23	1562.4	0.04
Spathulenol	13.95*	2061.4	[1.09]	12.34	1570.7	0.06
Caryophyllene oxide	12.20	1895.4	0.01	12.39*	1575.0	[0.31]

isomer						
Caryophyllene oxide	12.32*	1906.7	[0.27]	12.39*	1575.0	[0.31]
10-epi-Junenol	12.29	1903.5	0.03	12.42	1576.7	0.02
Humulene epoxide II	12.90	1961.2	0.02	12.72	1600.6	0.03
Junenol	13.16	1984.9	0.03	12.83*	1609.4	[0.32]
5,6-Dihydrochamazulene	13.95*	2061.4	[1.09]	12.83*	1609.4	[0.32]
Unknown TAAN III [m/z 145, 173 (83), 159 (57), 174 (47), 129 (47), 115 (44), 128 (43), 91 (43), 157 (36), 202 (30)]				12.94	1619.1	0.03
7,12-Dehydro-5,6,7,8- tetrahydrochamazulene	13.56*	2022.8	[1.08]	13.00*	1623.6	[1.27]
γ-Eudesmol	14.48	2113.5	0.15	13.00*	1623.6	[1.27]
Eremoligenol	14.60	2125.7	0.08	13.11	1632.5	0.06
τ-Cadinol	14.43	2107.7	0.02	13.16	1636.9	0.04
β-Eudesmol	14.95*	2161.1	[0.83]	13.23	1642.5	0.58
Dihydrochamazulene isomer IV	13.95*	2061.4	[1.09]	13.28†	1646.7	0.81
α-Eudesmol	14.85	2150.5	0.02	13.30†	1648.3	0.10
(3E,5E)-7- Hydroxyfarnesene	15.76	2243.9	0.05	13.46	1661.5	0.03
Unknown TAAN IV [m/z 143, 142 (92), 157 (79), 158 (61), 141 (59), 128 (57), 159 (43), 115 (41), 202 (41)]	18.20	2511.4	0.12	13.97	1704.1	0.13
Chamazulene	16.22	2292.7	7.45	14.16	1720.9	7.38
α-Phellandrene dimer II	12.06	1882.6	0.04	14.95	1789.6	0.05
Dehydrochamazulene	17.59	2441.9	0.02	15.14	1806.2	0.05
Phytone	14.25	2090.7	0.02	15.59	1847.2	0.07
meta-Camphorene	14.95*	2161.1	[0.83]	16.71	1951.4	0.20
9-(15,16-Dihydro-15- methyleneneryl)-α- terpinene?	15.38	2204.9	0.15	17.23*	2000.4	[0.22]
9-(15,16-Dihydro-15- methyleneneryl)-para- cymene?	16.05	2274.7	0.03	17.23*	2000.4	[0.22]
9-(15,16-Dihydro-15- methylenegeranyl)-para- cymene	16.16	2286.5	0.20	17.31*	2008.0	[1.02]
9-(15,16-Dihydro-15- methylenegeranyl)-α- terpinene	15.42	2208.6	0.87	17.31*	2008.0	[1.02]
Unknown TAAN V analog	20.62	2802.3	0.30	21.15	2413.5	0.28

I						
Unknown TAAN V [m/z 186, 157 (37), 171 (18), 322 (15)]	21.38	2899.9	0.99	21.74	2482.2	0.98
Unknown TAAN V analog				22.75	2602.8	0.07
II						
Unknown TAAN V analog				23.06	2641.5	0.05
III						
Total reported		95.45%			96.34%	

*: 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