

Date : May 08, 2020

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 20D24-PTH05

Customer identification : Carteri Organic - Somaliland - F00106203R

Type : Essential oil

Source : *Boswellia carteri*

Customer : Plant Therapy

ANALYSIS

Method: PC-MAT-007 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Sylvain Mercier, M. Sc., Chimiste

Analysis date : May 04, 2020

Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste 2013-174

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PHYSICOCHEMICAL DATA

Physical aspect: Faintly yellow liquid

Refractive index: 1.4719 ± 0.0003 (20 °C; method PC-MAT-016)

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	0.02	Aliphatic alcohol
(E)-2-Methyl-1,3-pentadiene	0.01	Alkene
3-Methyl-2-butanone	tr	Aliphatic ketone
Unknown	tr	Unknown
Toluene	0.05	Simple phenolic
Unknown	tr	Unknown
Unknown	0.02	Alkene
Unknown	0.01	Unknown
Hashishene	0.87	Monoterpene
Tricyclene	0.05	Monoterpene
α -Thujene	0.83	Monoterpene
α -Pinene	50.31	Monoterpene
Camphene	0.58	Monoterpene
Unknown	0.01	Monoterpene
α -Fenchene	0.01	Monoterpene
Thuja-2,4(10)-diene	0.43	Monoterpene
meta-Cymene	0.02	Monoterpene
β -Pinene	1.65	Monoterpene
Sabinene	4.53	Monoterpene
Pseudolimonene isomer	0.03	Monoterpene
Dehydro-1,8-cineole	0.07	Monoterpenic ether
6-Methyl-5-hepten-2-one	0.01	Aliphatic ketone
Myrcene	9.93	Monoterpene
2-Carene	0.01	Monoterpene
Octanal	0.03	Aliphatic aldehyde
α -Phellandrene	2.19	Monoterpene
Δ^3 -Carene	0.22	Monoterpene
ortho-Methylanisole	0.09	Simple phenolic
α -Terpinene	0.14	Monoterpene
Carvomenthene	0.03	Aliphatic alcohol
para-Cymene	2.07	Monoterpene
Limonene	8.61	Monoterpene
β -Phellandrene	0.49	Monoterpene
1,8-Cineole	0.51	Monoterpenic ether
Cymene analog	0.02	Monoterpene
Unknown	0.03	Unknown
(Z)- β -Ocimene	1.18	Monoterpene
Unknown	0.01	Unknown
(E)- β -Ocimene	0.31	Monoterpene
Unknown	0.01	Unknown
γ -Terpinene	0.24	Monoterpene
cis-Sabinene hydrate	0.03	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Octanol	0.06	Aliphatic alcohol

meta-Cymenene	0.01	Monoterpene
Terpinolene	0.09	Monoterpene
γ-Campholenal	0.01	Aliphatic alcohol
α-Pinene oxide	0.01	Monoterpenic ether
6,7-Epoxymyrcene	0.01	Monoterpenic ether
2-Nonanone	0.04	Aliphatic ketone
<i>trans</i> -Sabinene hydrate	0.02	Monoterpenic alcohol
Rosefuran	0.02	Monoterpenic ether
Perillene	0.01	Monoterpenic ether
Linalool	0.19	Monoterpenic alcohol
α-Thujone	0.03	Monoterpenic ketone
Unknown	0.03	Monoterpenic alcohol
Verbenol analog?	0.03	Monoterpenic alcohol
β-Thujone	0.04	Monoterpenic ketone
Unknown	0.01	Oxygenated monoterpene
<i>cis</i> -para-Menth-2-en-1-ol	0.04	Monoterpenic alcohol
α-Campholenal	0.16	Monoterpenic aldehyde
Myrcenol	0.04	Monoterpenic alcohol
<i>cis</i> -Limonene oxide	0.01	Monoterpenic ether
allo-Ocimene	0.03	Monoterpene
<i>trans</i> -Pinocarveol	0.37	Monoterpenic alcohol
<i>trans</i> -Limonene oxide	0.02	Monoterpenic ether
<i>trans</i> -Sabinol	0.17	Monoterpenic alcohol
<i>trans</i> -Verbenol	0.55	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.14	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
Unknown	0.04	Oxygenated monoterpene
Pinocamphone	0.05	Monoterpenic ketone
Pinocarvone	0.01	Monoterpenic ketone
Borneol	0.07	Monoterpenic alcohol
α-Phellandren-8-ol	0.25	Monoterpenic alcohol
Umbellulone	0.06	Monoterpenic ketone
Terpinen-4-ol	0.32	Monoterpenic alcohol
Thuj-3-en-10-al	0.03	Monoterpenic aldehyde
Cryptone	0.02	Normonoterpenic ketone
para-Cymen-8-ol	0.01	Monoterpenic alcohol
α-Terpineol	0.20	Monoterpenic alcohol
Myrtenal	0.15	Monoterpenic aldehyde
Myrtenol	0.16	Monoterpenic alcohol
<i>cis</i> -α-Phellandrene epoxide (IPP vs Me)	0.06	Monoterpenic ether
Verbenone	0.25	Monoterpenic ketone
<i>trans</i> -Piperitol	0.03	Monoterpenic alcohol
<i>trans</i> -Carveol	0.10	Monoterpenic alcohol
<i>cis</i> -Carveol	0.02	Monoterpenic alcohol
Cuminal	0.03	Monoterpenic aldehyde
Carvone	0.06	Monoterpenic ketone
Carvotanacetone	0.01	Monoterpenic ketone
Unknown	0.06	Unknown
3,5-Dimethoxytoluene	0.06	Simple phenolic
Unknown	0.03	Oxygenated monoterpene
Bornyl acetate	0.21	Monoterpenic ester
<i>trans</i> -Pinocarvyl acetate	0.01	Monoterpenic ester

Thymol	0.01	Monoterpenic alcohol
Carvacrol	0.01	Monoterpenic alcohol
Bicycloelemene	0.03	Sesquiterpene
Unknown	0.01	Unknown
α -Cubebene	0.11	Sesquiterpene
α -Terpinyl acetate	0.04	Monoterpenic ester
Cyclosativene II	0.06	Sesquiterpene
α -Ylangene	0.04	Sesquiterpene
α -Copaene	0.58	Sesquiterpene
β -Bourbonene	0.18	Sesquiterpene
1,5-diepi- β -Bourbonene	0.02	Sesquiterpene
Geranyl acetate	0.01	Monoterpenic ester
β -Cubebene	0.06	Sesquiterpene
β -Elemene	0.30	Sesquiterpene
Isocaryophyllene	0.04	Sesquiterpene
α -Gurjunene	0.11	Sesquiterpene
<i>cis</i> - α -Bergamotene	tr	Sesquiterpene
β -Caryophyllene	2.43	Sesquiterpene
β -Copaene	0.04	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.09	Sesquiterpene
6,9-Guaiadiene	0.01	Sesquiterpene
Unknown	0.03	Sesquiterpene
α -Humulene	0.51	Sesquiterpene
allo-Aromadendrene	0.11	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.04	Sesquiterpene
γ -Muurolene	0.18	Sesquiterpene
Germacrene D	0.36	Sesquiterpene
β -Selinene	0.14	Sesquiterpene
<i>trans</i> -Muurolo-4(15),5-diene	0.03	Sesquiterpene
δ -Selinene	0.05	Sesquiterpene
α -Selinene	0.11	Sesquiterpene
epi-Cubebol	0.08	Sesquiterpenic alcohol
Bicyclogermacrene	0.04	Sesquiterpene
α -Muurolene	0.16	Sesquiterpene
δ -Amorphene	0.02	Sesquiterpene
γ -Cadinene	0.15	Sesquiterpene
Cubebol	0.20	Sesquiterpenic alcohol
δ -Cadinene	0.40	Sesquiterpene
<i>trans</i> -Calamenene	0.03	Sesquiterpene
Zonarene	0.01	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.03	Sesquiterpene
α -Cadinene	0.02	Sesquiterpene
α -Calacorene	0.01	Sesquiterpene
Isocaryophyllene epoxide B	0.02	Sesquiterpenic ether
Germacrene B	0.03	Sesquiterpene
Palustrol	0.01	Sesquiterpenic alcohol
Unknown	0.02	Oxygenated sesquiterpene
Spathulenol	0.02	Sesquiterpenic alcohol
Caryophyllene oxide	0.21	Sesquiterpenic ether
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Viridiflorol	0.38	Sesquiterpenic alcohol
Copaborneol	0.05	Sesquiterpenic alcohol

Humulene epoxide II	0.03	Sesquiterpenic ether
Unknown	0.04	Sesquiterpenic alcohol
1-epi-Cubenol	0.02	Sesquiterpenic alcohol
τ -Cadinol	0.07	Sesquiterpenic alcohol
τ -Muurolol	0.01	Sesquiterpenic alcohol
α -Muurolol	0.04	Sesquiterpenic alcohol
α -Eudesmol	0.01	Sesquiterpenic alcohol
α -Cadinol	0.01	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	0.04	Sesquiterpenic alcohol
Shyobunol	0.02	Sesquiterpenic alcohol
α -Phellandrene dimer II	0.05	Diterpene
α -Phellandrene dimer III	0.01	Diterpene
(3E)-Cembrene A	0.08	Diterpene
para-Camphorene	0.01	Diterpene
Cembrene C	0.02	Diterpene
Verticilla-4(20),7,11-triene	0.01	Diterpene
Cembrenol	0.03	Diterpenic alcohol
Serratol	0.22	Diterpenic alcohol
Incensole	0.06	Diterpenic alcohol
Consolidated total	98.64%	

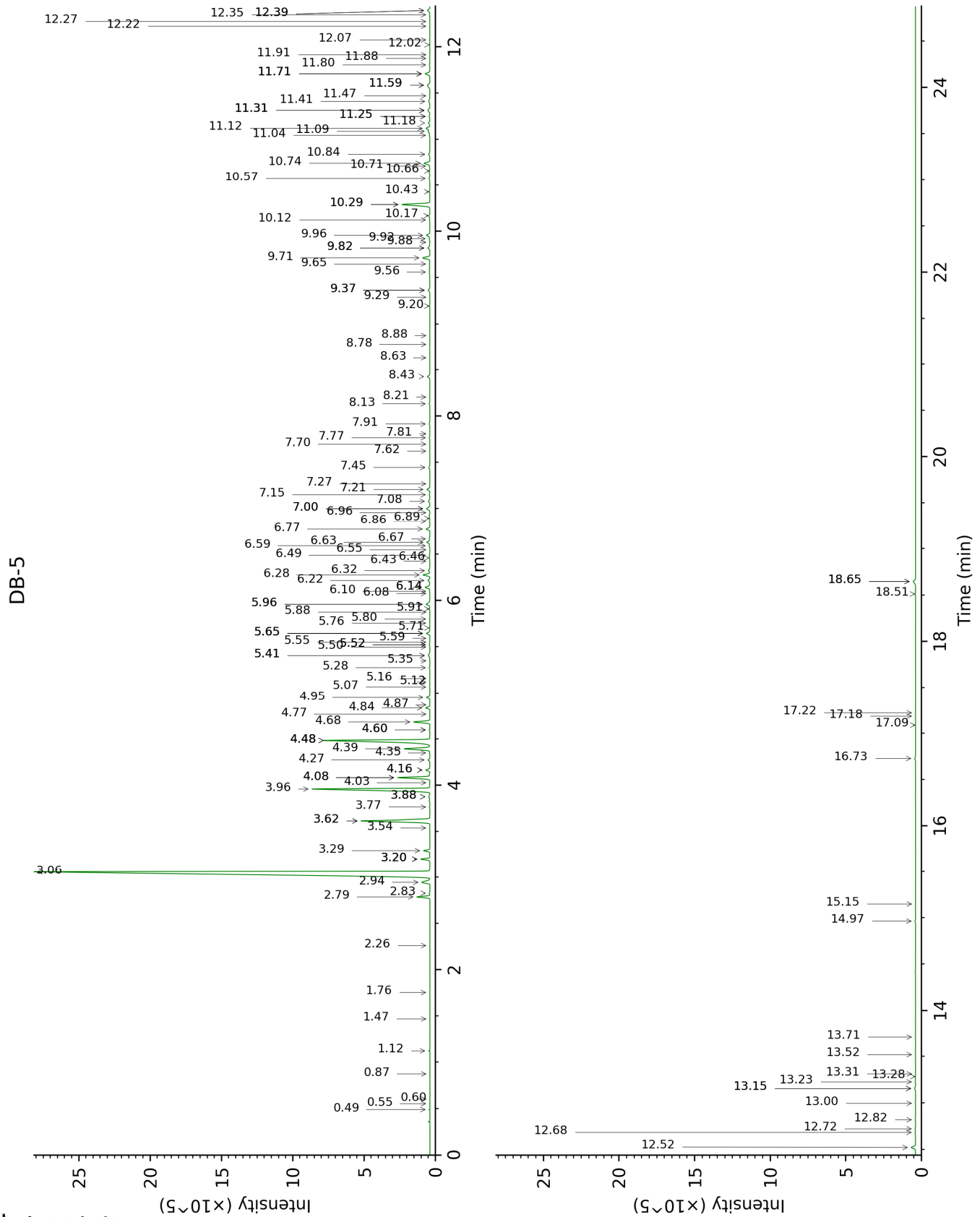
tr: The compound has been detected below 0.005% of total signal.

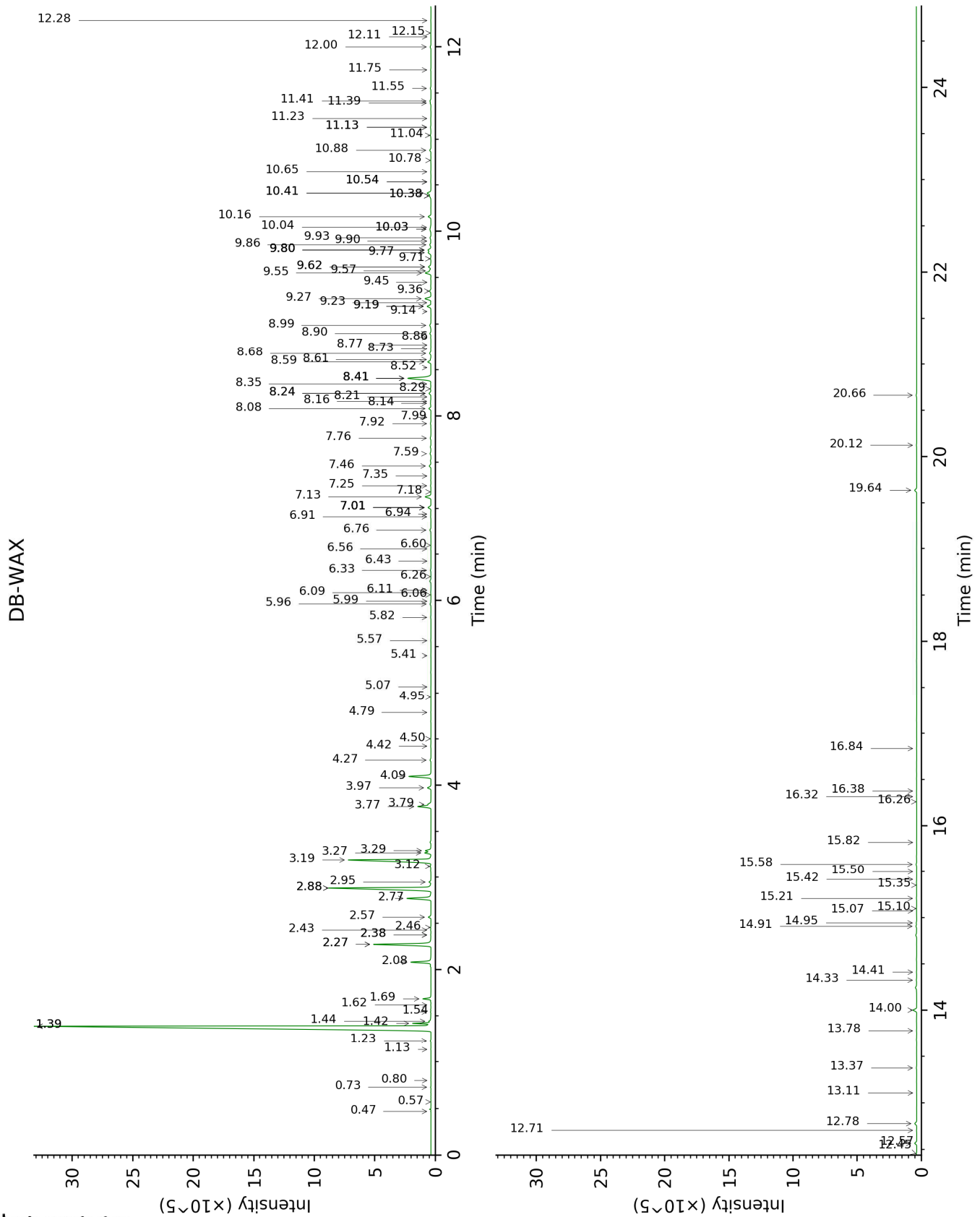
Note: no correction factor was applied

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	%
2-Methyl-3-buten-2-ol	0.49	586	0.02	1.54	1012	0.02
(E)-2-Methyl-1,3-pentadiene	0.55	626	0.01	0.47	766	0.01
3-Methyl-2-butanone	0.60	647	tr	0.80	901	tr
Unknown [m/z 93, 91 (70), 77 (48), 108 (42)]	0.87	728	tr	0.57	822	tr
Toluene	1.12	762	0.05	1.44†	1002	[51.59]
Unknown [m/z 109, 67 (39), 81 (14), 41 (14), 55 (10), 110 (9)... 124 (6)]	1.47	810	tr			
Unknown [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	1.76	833	0.02	0.73	880	0.01
Unknown [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	2.26	875	0.01	1.13	956	0.01
Hashishene	2.79	915	0.87	1.39*†	997	51.59
Tricyclene	2.83	918	0.05	1.23	972	0.04
α-Thujene	2.94	926	0.83	1.42†	1000	[51.59]
α-Pinene	3.06	933	50.31	1.39*†	997	[51.59]
Camphene	3.20*	943	0.60	1.69	1026	0.58
Unknown [m/z 91, 92 (47), 65 (11)... 134 (1)]	3.20*	943	[0.60]	2.38*	1095	0.03
α-Fenchene	3.20*	943	[0.60]	1.62	1020	0.01
Thuja-2,4(10)-diene	3.29	949	0.43	2.28*	1085	4.96
meta-Cymene	3.54	965	0.02	2.88*	1135	9.90
β-Pinene	3.62*	970	6.18	2.08	1066	1.65
Sabinene	3.62*	970	[6.18]	2.28*	1085	[4.96]
Pseudolimonene isomer	3.76	980	0.03	2.43	1099	0.03
Dehydro-1,8-cineole	3.88*	987	0.12	3.12	1154	0.07
6-Methyl-5-hepten-2-one	3.88*	987	[0.12]	5.07	1296	0.01
Myrcene	3.96	993	9.93	2.88*	1135	[9.90]
2-Carene	4.03	997	0.01	2.38*	1095	[0.03]
Octanal	4.08*	1001	2.28	4.42	1252	0.03
α-Phellandrene	4.08*	1001	[2.28]	2.77	1126	2.19

Δ3-Carene	4.16*	1006	0.30	2.57	1110	0.22
ortho-Methylanisole	4.16*	1006	[0.30]	5.96	1360	0.09
α-Terpinene	4.27	1013	0.14	2.95	1140	0.15
Carvomenthene	4.35	1018	0.03	2.46	1101	0.03
para-Cymene	4.39	1020	2.07	4.10	1228	2.06
Limonene	4.48*	1026	9.67	3.19	1159	8.61
β-Phellandrene	4.48*	1026	[9.67]	3.27	1165	0.49
1,8-Cineole	4.48*	1026	[9.67]	3.29	1167	0.51
Cymene analog	4.60*	1033	0.05	4.50	1257	0.02
Unknown [m/z 67, 93 (70), 82 (70), 121 (42), 107 (39), 91 (33), 79 (28)...]	4.60*	1033	[0.05]			
(Z)-β-Ocimene	4.68	1039	1.18	3.77	1204	1.20
Unknown [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...]	4.77	1044	0.01			
(E)-β-Ocimene	4.84	1048	0.31	3.97	1219	0.33
Unknown [m/z 109, 45 (67), 41 (40), 67 (39), 81 (33), 79 (27), 95 (24), 91 (23), 82 (21), 55 (21), 93 (20)...]	4.87	1050	0.01	6.94	1432	0.04
γ-Terpinene	4.95	1055	0.24	3.79	1206	0.24
cis-Sabinene hydrate	5.07	1063	0.03	6.91	1430	0.03
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.12	1066	0.01	4.79	1278	0.02
cis-Linalool oxide (fur.)	5.16	1069	0.01	6.56	1403	0.02
Octanol	5.28	1076	0.06	8.21	1527	0.02
meta-Cymenene	5.35	1081	0.01	6.26	1381	0.01
Terpinolene	5.41*†	1084	0.20	4.27	1240	0.09
γ-Campholenal	5.41*†	1084	[0.20]	4.95	1291	0.01
α-Pinene oxide	5.50	1090	0.01	5.41	1320	0.02
6,7-Epoxymyrcene	5.52*	1092	0.04	6.06	1367	0.01
2-Nonanone	5.52*	1092	[0.04]	5.82	1350	0.04
trans-Sabinene hydrate	5.55	1094	0.02	7.99	1510	0.02
Rosefuran	5.59	1096	0.02	5.99	1362	0.01
Perillene	5.65*	1100	0.30	6.11	1371	0.01
Linalool	5.65*	1100	[0.30]	8.08	1517	0.19
α-Thujone	5.65*	1100	[0.30]	6.09	1369	0.03
Unknown [m/z	5.71	1103	0.03	8.52	1552	0.03

119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]						
Verbenol analog?	5.76	1107	0.03	8.29	1534	0.06
β-Thujone	5.80	1110	0.04	6.33	1386	0.06
Unknown [m/z 109, 91 (57), 93 (47), 81 (44), 77 (40)... 154 (1)]	5.88	1114	0.01			
<i>cis</i> -para-Menth-2- en-1-ol	5.91	1117	0.04	8.16	1523	0.04
α-Campholenal	5.96*	1120	0.39	7.01*	1437	0.29
Myrcenol	5.96*	1120	[0.39]	8.86	1577	0.04
<i>cis</i> -Limonene oxide	6.08	1127	0.01	6.43	1394	0.01
allo-Ocimene	6.10	1129	0.03	5.57	1332	0.03
<i>trans</i> -Pinocarveol	6.14*	1132	0.41	9.19*	1604	0.39
<i>trans</i> -Limonene oxide	6.14*	1132	[0.41]	6.60	1406	0.02
<i>trans</i> -Sabinol	6.22	1137	0.17	9.80*†	1653	[0.65]
<i>trans</i> -Verbenol	6.28	1140	0.55	9.55	1633	0.61
meta-Mentha-4,6- dien-8-ol	6.32	1143	0.14	9.36	1617	0.15
Unknown [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)]	6.43	1150	0.02			
Unknown [m/z 67, 81 (99), 79 (78), 109 (67), 41 (47), 77 (31), 91 (29)... 121 (22), 123 (20)... 152 (5)]	6.46	1152	0.04	7.18	1450	0.02
Pinocamphone	6.49	1154	0.05	7.25	1454	0.04
Pinocarvone	6.55	1158	0.01	7.92	1505	0.05
Borneol	6.59	1161	0.07	9.80*†	1653	[0.65]
α-Phellandren-8-ol	6.63	1163	0.25	10.16	1682	0.28
Umbellulone	6.67	1166	0.06	8.90	1580	0.11
Terpinen-4-ol	6.77	1173	0.32	8.58	1556	0.34
Thuj-3-en-10-al	6.86	1178	0.03	8.73	1567	0.03
Cryptone	6.89	1181	0.02	9.19*	1604	[0.39]
para-Cymen-8-ol	6.96	1185	0.01	11.55	1799	0.06
α-Terpineol	7.00*	1188	0.35	9.80*†	1653	[0.65]
Myrtenal	7.00*	1188	[0.35]	8.68	1564	0.15
Myrtenol	7.08	1193	0.16	10.88	1743	0.12
<i>cis</i> -α-Phellandrene epoxide (IPP vs Me)	7.15	1198	0.06	11.04	1756	0.06
Verbenone	7.21	1201	0.25	9.62*	1638	0.30
<i>trans</i> -Piperitol	7.27	1205	0.03	10.41*	1703	0.44

<i>trans</i> -Carveol	7.44	1217	0.10	11.42	1787	0.10
<i>cis</i> -Carveol	7.62	1230	0.02	11.75	1817	0.03
Cuminal	7.70	1235	0.03	10.54*	1713	0.04
Carvone	7.77	1239	0.06	10.02*	1671	0.17
Carvotanacetone	7.81	1242	0.01	9.45	1625	0.01
Unknown [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	7.91	1250	0.06	11.13*	1764	0.06
3,5-Dimethoxytoluene	8.13	1265	0.06	11.39	1786	0.07
Unknown [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]	8.20	1270	0.03			
Bornyl acetate	8.43	1285	0.21	8.24*	1530	0.21
<i>trans</i> -Pinocarvyl acetate	8.63	1299	0.01	9.14	1599	0.01
Thymol	8.78	1305	0.01	15.10	2129	0.02
Carvacrol	8.88	1311	0.01	15.42	2160	0.01
Bicycloelemene	9.20	1334	0.03	7.01*	1437	[0.29]
Unknown [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]	9.29	1341	0.01			
α -Cubebene	9.37*	1346	0.15	6.76	1418	0.11
α -Terpinyl acetate	9.37*	1346	[0.15]	9.70	1645	0.04
Cyclosativene II	9.56	1360	0.06	7.01*	1437	[0.29]
α -Ylangene	9.65	1366	0.04	7.01*	1437	[0.29]
α -Copaene	9.72	1371	0.58	7.13	1446	0.60
β -Bourbonene	9.82*	1378	0.19	7.46	1470	0.18
1,5-diepi- β -Bourbonene	9.82*	1378	[0.19]	7.35	1462	0.02
Geranyl acetate	9.88	1382	0.01	10.54*	1713	[0.04]
β -Cubebene	9.92	1385	0.06	7.76	1493	0.09
β -Elemene	9.96	1388	0.30	8.41*	1543	2.82
Isocaryophyllene	10.12	1400	0.04	8.14	1522	0.06
α -Gurjunene	10.17	1403	0.11	7.59	1480	0.11
<i>cis</i> - α -Bergamotene	10.29*	1412	2.49	8.24*	1530	[0.21]
β -Caryophyllene	10.29*	1412	[2.49]	8.41*	1543	[2.82]
β -Copaene	10.43	1422	0.04	8.35	1538	0.04
<i>trans</i> - α -Bergamotene	10.57	1433	0.09	8.41*	1543	[2.82]
6,9-Guaiadiene	10.66	1439	0.01	8.61	1558	0.04
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	10.71	1443	0.03	8.77	1571	0.02
α -Humulene	10.74	1445	0.51	9.27	1610	0.64
allo-Aromadendrene	10.84	1453	0.11	8.99	1587	0.15
<i>trans</i> -Cadina-	11.04	1468	0.04	9.23	1607	0.03

1(6),4-diene						
γ-Muurolene	11.09	1471	0.18	9.57	1635	0.11
Germacrene D	11.12	1474	0.36	9.77†	1650	0.65
β-Selinene	11.18	1478	0.14	9.86	1657	0.14
<i>trans</i> -Muurola-4(15),5-diene	11.25*	1483	0.08	9.80*†	1653	[0.65]
δ-Selinene	11.25*	1483	[0.08]	9.62*	1638	[0.30]
α-Selinene	11.31*	1488	0.23	9.93	1664	0.11
epi-Cubebol	11.31*	1488	[0.23]	12.00	1839	0.08
Bicyclogermacrene	11.31*	1488	[0.23]	10.04	1673	0.04
α-Muurolene	11.41	1495	0.16	10.02*	1671	[0.17]
δ-Amorphene	11.47	1500	0.02	9.90	1661	0.02
γ-Cadinene	11.59*†	1508	0.34	10.38*	1700	0.18
Cubebol	11.59*†	1508	[0.34]	12.57	1889	0.20
δ-Cadinene	11.71*	1518	0.44	10.41*	1703	[0.44]
<i>trans</i> -Calamenene	11.71*	1518	[0.44]	11.23	1772	0.03
Zonarene	11.71*	1518	[0.44]	10.38*	1700	[0.18]
<i>trans</i> -Cadina-1,4-diene	11.80	1526	0.03	10.65	1723	0.03
α-Cadinene	11.88	1531	0.02	10.78	1733	0.03
α-Calacorene	11.91	1534	0.01	12.11	1848	0.01
Isocaryophyllene epoxide B	12.02	1543	0.02	12.15	1852	0.02
Germacrene B	12.08	1547	0.03	11.13*	1764	[0.06]
Palustrol	12.22	1558	0.01	12.28	1864	0.02
Unknown [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]	12.27	1562	0.02			
Spathulenol	12.35	1568	0.02	14.41	2061	0.02
Caryophyllene oxide	12.39*	1572	0.24	12.78	1908	0.21
Caryophyllene oxide isomer	12.39*	1572	[0.24]	12.71	1902	0.02
Viridiflorol	12.52	1582	0.38	14.00	2022	0.37
Copaborneol	12.68	1595	0.05	14.95	2113	0.04
Humulene epoxide II	12.72	1598	0.03	13.37	1963	0.04
Unknown [m/z 161, 189 (76), 204 (66), 105 (60), 119 (46), 107 (41), 59 (38)...222 (3)]	12.82	1606	0.04	14.33	2053	0.04
1-epi-Cubenol	13.00	1620	0.02	13.78	2001	0.02
τ-Cadinol	13.15*	1633	0.09	14.91	2110	0.07
τ-Muurolol	13.15*	1633	[0.09]	15.08	2126	0.01
α-Muurolol	13.23	1639	0.04	15.21	2140	0.04
α-Eudesmol	13.28	1644	0.01	15.35	2154	tr
α-Cadinol	13.31	1646	0.01	15.50	2168	0.01
(3Z)-Caryophylla-3,8(13)-dien-5β-ol	13.52	1663	0.04	16.84	2306	0.02
Shyobunol	13.71	1680	0.02	16.32	2252	0.02

α-Phellandrene dimer II	14.97	1787	0.05	12.45	1879	0.05
α-Phellandrene dimer III	15.15	1803	0.01	13.11	1938	0.01
(3E)-Cembrene A	16.73	1949	0.08	15.58	2177	0.06
para-Camphorene	17.09	1983	0.01	15.82	2201	0.01
Cembrene C	17.18	1992	0.02	16.26	2246	0.01
Verticilla-4(20),7,11-triene	17.22	1996	0.01	16.38	2258	0.02
Cembrenol	18.51	2125	0.03	20.12	2678	0.03
Serratol	18.65*	2139	0.28	19.64	2620	0.22
Incensole	18.65*	2139	[0.28]	20.66	2744	0.06
Total identified	98.84%			97.99%		
Total reported	99.20%			98.18%		

*: 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