Analysis Poplar Balsam Essential Oil

Laboratoire
PhytoChemia

Date : November 19, 2019

CERTIFICATE OF ANALYSIS -GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 19K06-FSE08-1-CC
Customer identification : Poplar Balsam
Type : Essential oil
Source : *Populus balsamifera*
Customer : Flowers Shining Everywhere Inc.

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 : November 12, 2019

Checked and approved by :

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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays.

Laboratoire PhytoChemia
628 Boulevard du Saguenay Ouest, Saguenay (Qc) G7J 1H4 | www.phytochemia.com

Physicochemical data

Physical aspect: Faintly yellow viscous liquid
Refractive index: 1.4967 ± 0.0003 (20 ° C)

Conclusion

No adulterant, contaminant or diluent has been detected using this method.

Cyclosativene II	0.04	Sesquiterpene
α-Ylangene	0.95	Sesquiterpene
2-epi-α-Funebrene	0.01	Sesquiterpene
α-Copaene	0.54	Sesquiterpene
Unknown	0.09	Sesquiterpene
7-epi-Sesquithujene?	0.01	Sesquiterpene
Unknown	0.16	Sesquiterpene
Unknown	0.06	Sesquiterpene
Sativene	0.07	Sesquiterpene
α-Cedrene	0.46	Sesquiterpene
Acora-3,7(14)-diene	0.17	Sesquiterpene
β-Cedrene	0.11	Sesquiterpene
β-Caryophyllene	0.34	Sesquiterpene
Unknown	0.15	Sesquiterpene
cis-α-Bergamotene	0.15	Sesquiterpene
Cascarilladiene	0.13	Sesquiterpene
β-Gurjunene	0.01	Sesquiterpene
trans-α-Bergamotene	3.07	Sesquiterpene
6,9-Guaiadiene	0.31	Sesquiterpene
Cadina-4,11-diene	0.23	Sesquiterpene
1,2,2α,3,3,4,6,7,8,8α-Decahydro-2α,7,8-trimethylacenaphthylene	0.46	Sesquiterpene
α-Humulene	0.52	Sesquiterpene
allo-Aromadendrene	0.74	Sesquiterpene
Muurola-4,11-diene	0.40	Sesquiterpene
β-Acoradiene	0.53	Sesquiterpene
cis-Muurola-4(15),5-diene	0.10	Sesquiterpene
cis-Cadina-1(6),4-diene	0.04	Sesquiterpene
β-Santalene	0.20	Sesquiterpene
(*E*)-β-Farnesene	1.95	Sesquiterpene
9-epi-β-Caryophyllene	0.23	Sesquiterpene
10-epi-β-Acoradiene	0.23	Sesquiterpene
trans-Cadina-1(6),4-diene	0.22	Sesquiterpene
γ-Muurolene	0.86	Sesquiterpene
α-Amorphene	4.67	Sesquiterpene
β-Selinene	0.53	Sesquiterpene
cis-4,10-Epoxyamorphane	1.99*	Sesquiterpenic ether
ar-Curcumene	1.00	Sesquiterpene
γ-Curcumene	[1.99]*	Sesquiterpene
δ-Selinene	0.07	Sesquiterpene
β-Alaskene	0.39	Sesquiterpene
Unknown	1.23	Sesquiterpene
Unknown	0.63	Sesquiterpene
α-Muurolene	1.00	Sesquiterpene
Epizonarene	2.00	Sesquiterpene
δ-Amorphene	3.54	Sesquiterpene
β-Curcumene	0.14	Sesquiterpene
β-Bisabolene	1.26	Sesquiterpene
γ-Cadinene	6.25*	Sesquiterpene
Unknown	[6.25]*	Sesquiterpene
(*Z*)-γ-Bisabolene	0.62	Sesquiterpene
trans-Calamenene	5.97*	Sesquiterpene

ANALYSIS SUMMARY - CONSOLIDATED CONTENTS

New readers of similar reports are encouraged to read table footnotes at least once.

Identification	%	Classe
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Toluene	tr	Simple phenolic
Methyl isovalerate	0.01	Aliphatic ester
Styrene	0.28	Simple phenolic
α-Pinene	0.39	Monoterpene
α-Fenchene	tr	Monoterpene
Camphene	0.02	Monoterpene
Angelic acid	0.01	Aliphatic acid
Benzaldehyde	0.02	Simple phenolic
β-Pinene	0.04	Monoterpene
1,2-Cyclohexanedione	0.04	Aliphatic ketone
Myrcene	0.09	Monoterpene
Phenol	0.02	Simple phenolic
α-Phellandrene	0.02	Monoterpene
ortho-Methylanisole	0.05	Simple phenolic
Δ3-Carene	0.01	Monoterpene
α-Terpinene	0.17	Monoterpene
para-Cymene	0.10	Monoterpene
Limonene	0.40	Monoterpene
1,8-Cineole	2.22	Monoterpenic ether
Benzyl alcohol	0.01	Simple phenolic
Salicylaldehyde	0.09	Simple phenolic
(*E*)-β-Ocimene	tr	Monoterpene
Acetophenone	0.02	Simple phenolic
γ-Terpinene	0.37	Monoterpene
Terpinolene	0.07	Monoterpene
para-Cymenene	0.02	Monoterpene
Linalool	0.05	Monoterpenic alcohol
Hotrienol	0.02	Monoterpenic alcohol
Limona ketone	0.01	Normonoterpenic ketone
3-Methylindene?	0.03	Miscellanous
Phenoprene	0.03	Simple phenolic
Borneol	0.05	Monoterpenic alcohol
Benzyl acetate	0.03	Phenolic ester
Terpinen-4-ol	0.21	Monoterpenic alcohol
α-Terpineol	0.40	Monoterpenic alcohol
Safranal?	0.03	Monoterpenic aldehyde
β-Cyclocitral?	0.06	Monoterpenic aldehyde
Benzylacetone	0.09	Simple phenolic
Unknown	0.08	Aliphatic ester
Methyl 8-methylnonanoate	0.01	Aliphatic ester
Cogeijerene	0.05	Terpene derivative
4-Vinylguaiacol	0.01	Simple phenolic
Unknown	0.04	Sesquiterpene
African-1-ene	0.02	Sesquiterpene
Unknown	0.02	Sesquiterpene

Sesquicineole	[5.97]*	Sesquiterpenic ether
cis-Calamenene?	0.11	Sesquiterpene
δ-Cadinene	[5.97]*	Sesquiterpene
Zonarene	[5.97]*	Sesquiterpene
trans-Cadina-1,4-diene	0.05	Sesquiterpene
(*E*)-γ-Bisabolene	1.80	Sesquiterpene
Selina-4(15),7(11)-diene	1.08	Sesquiterpene
Unknown	1.19	Sesquiterpene
α-Cadinene	0.47	Sesquiterpene
Selina-3,7(11)-diene	1.26	Sesquiterpene
α-Copaen-11-ol	0.16	Sesquiterpenic alcohol
α-Calacorene	0.44	Sesquiterpene
(*E*)-α-Bisabolene	0.89	Sesquiterpene
Eudesma-5,7(11)-diene	0.24	Sesquiterpene
β-Calacorene	0.01	Sesquiterpene
(*E*)-Nerolidol	7.05	Sesquiterpenic alcohol
Gleenol	0.10	Sesquiterpenic alcohol
Unknown	0.26	Oxygenated sesquiterpene
Fokienol	0.63	Terpenic alcohol
Unknown	0.18	Oxygenated sesquiterpene
Unknown	0.36	Oxygenated sesquiterpene
Unknown	0.11	Oxygenated sesquiterpene
Eremoligenol?	0.20	Sesquiterpenic alcohol
α-Acorenol	0.48	Sesquiterpenic alcohol
γ-Eudesmol	0.69	Sesquiterpenic alcohol
1-epi-Cubenol	0.57	Sesquiterpenic alcohol
τ-Cadinol	0.57	Sesquiterpenic alcohol
τ-Muurolol	0.13	Sesquiterpenic alcohol
Cubenol	0.20	Sesquiterpenic alcohol
α-Muurolol	0.20	Sesquiterpenic alcohol
β-Eudesmol	1.07	Sesquiterpenic alcohol
α-Eudesmol	0.92	Sesquiterpenic alcohol
7-epi-α-Eudesmol	0.33	Sesquiterpenic alcohol
α-Bisabolol oxide B, epimer 2	0.04	Sesquiterpenic alcohol
cis-Guaia-3,9-dien-11-ol?	0.05	Sesquiterpenic alcohol
α-Cadinol	0.12	Sesquiterpenic alcohol
α-Bisabolol oxide B, epimer 1	0.16	Sesquiterpenic alcohol
Unknown	0.20	Oxygenated sesquiterpene
β-Bisabolol	0.81	Sesquiterpenic alcohol
Juniper camphor	0.16	Sesquiterpenic alcohol
α-Bisabolol	22.18	Sesquiterpenic alcohol
(2*E*6*E*)-Farnesol	0.13	Sesquiterpenic alcohol
Unknown	0.10	Oxygenated sesquiterpene
Benzyl benzoate	0.05	Phenolic ester
(*E*)-Cinnamyl tiglate	0.02	Phenylpropanoid ester
Benzyl salicylate	0.01	Phenolic ester
Benzyl (*E*)-cinnamate	0.03	Phenylpropanoid ester
Heneicosane	0.04	Alkane
Docosane	0.04	Alkane
Tricosane	0.25	Alkane
(*E*)-Cinnamyl (*E*)-cinnamate	0.04	Phenylpropanoid ester
Tetracosane	0.03	Alkane

Pentacosane	0.11	Alkane
Hexacosane	0.01	Alkane
Heptacosane	0.07	Alkane
Nonacosane	0.01	Alkane
Consolidated total	**96.92%**	

*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered [xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

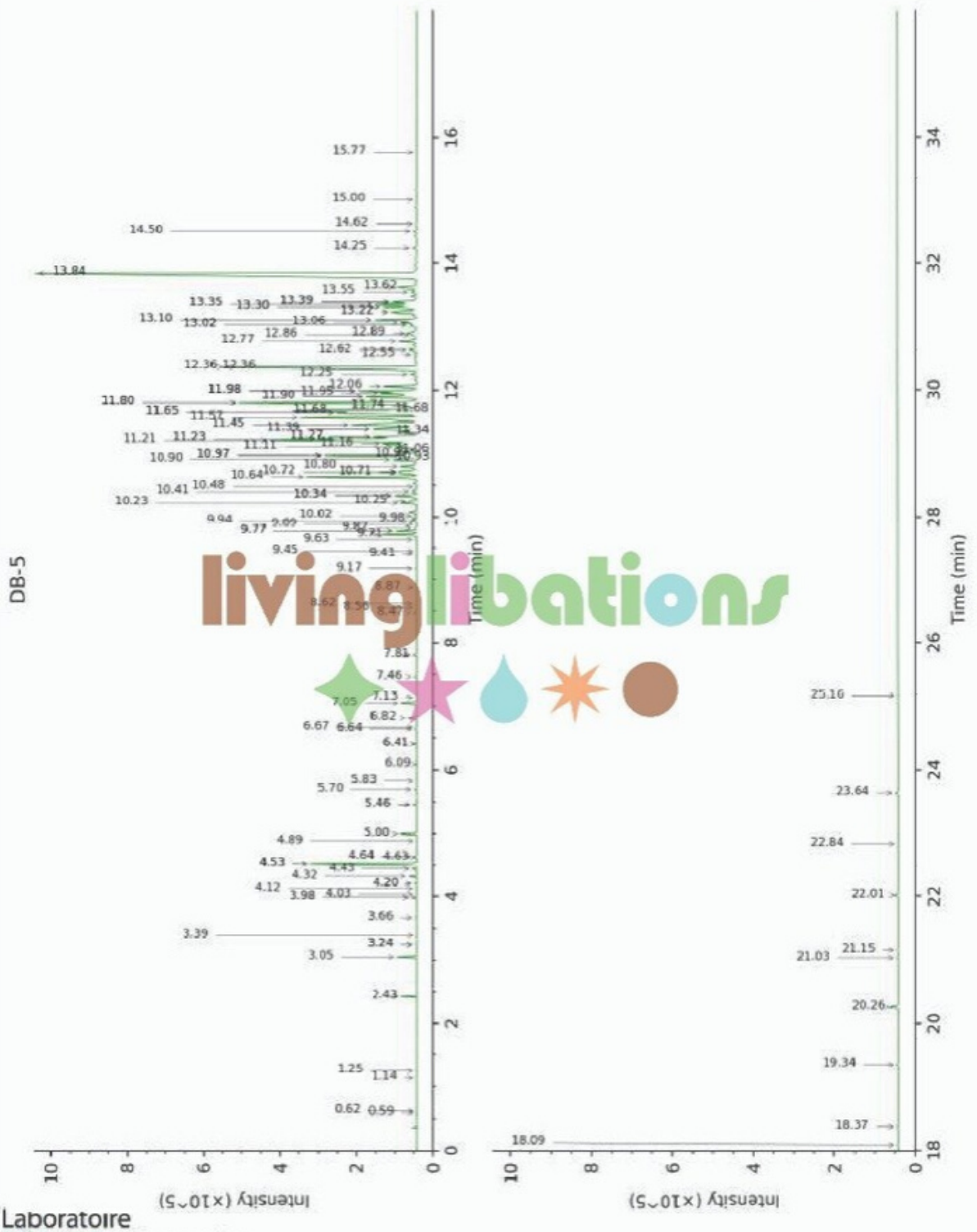
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

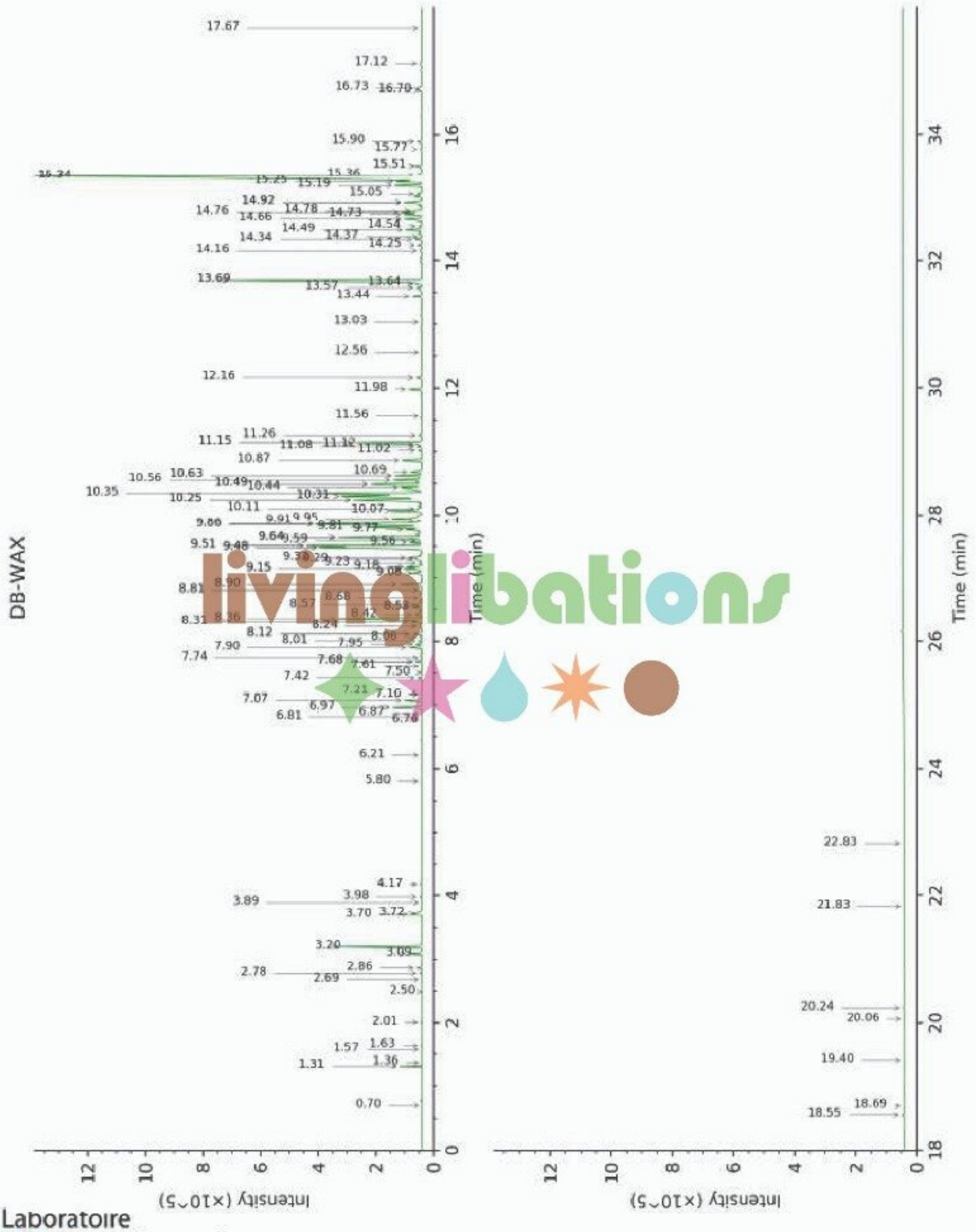
Unknowns: Unknown compounds' massspectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

livinglibations

Laboratoire
PhytoChemia
Plus que des analyses... des conseils

528 Boulevard du Saguenay, Saguenay (Qc) G7J 1H4 | www.phytochemia.com





Full analysis data

Identification	Column DB-5			Column DB-WAX			
	R.T	R.I	%	R.T	R.I	%	
Isovaleral	0.59	641	tr	0.70	878	tr	
2-Methylbutyral	0.62	652	tr	1.36	999	tr	
Toluene	1.14	760	tr	1.31*	990	0.39	
Methyl isovalerate	1.24	774	0.01	3.72†		1207	[0.65]
Styrene	2.43	885	0.28	1.31*	990	[0.39]	
α-Pinene	3.05	929	0.39	1.57	1021	tr	
α-Fenchene	3.24*	942	0.04	1.63	1027	0.02	
Camphene	3.24*	942	[0.04]				
Angelic acid	3.24*	942	[0.04]	7.21	1458	0.05	
Benzaldehyde	3.39	951	0.02	2.01	1064	0.03	
β-Pinene	3.66	970	0.04				
1,2-Cyclohexanedione	3.98*	991	0.12	2.78	1133	0.09	
Myrcene	3.98*	991	[0.12]	13.03	1944	0.02	
Phenol	4.03	994	0.02	2.69	1125	0.01	
α-Phellandrene	4.12	1000	0.02	5.80	1354	0.05	
ortho-Methylanisole	4.20*	1005	0.05	2.50	1110	0.01	
Δ3-Carene	4.20*	1005	[0.05]	2.86	1139	0.17	
α-Terpinene	4.32	1013	0.17	3.98	1226	0.09	
para-Cymene	4.43	1020	0.10	3.09	1157	0.40	
Limonene	4.53*	1026	2.70	3.20	1166	2.22	
1,8-Cineole	4.53*	1026	[2.70]	11.56	1811	0.01	
Benzyl alcohol	4.63	1032	0.01	9.15*	1609	0.71	
Salicylaldehyde	4.64	1033	0.09	3.89	1219	0.01	
(*E*)-β-Ocimene	4.89	1049	tr	8.81*	1582	0.04	
Acetophenone	5.00*	1056	0.38	3.70†		1205	0.65
γ-Terpinene	5.00*	1056	[0.38]	4.17	1240	0.07	
Terpinolene	5.46*	1085	0.09	6.21	1384	0.02	
para-Cymenene	5.46*	1085	[0.09]	7.95	1515	0.22	
Linalool	5.70	1100	0.05	8.68	1572	0.06	
Hotrienol	5.83	1109	0.02	7.74	1498	0.02	
Limona ketone	6.09	1126	0.01	8.81*	1582	[0.04]	
3-Methylindene?	6.41*	1147	0.06				
Phenoprene	6.41*	1147	[0.06]	9.64*	1649	3.21	
Borneol	6.64	1162	0.05	9.92	1672	0.13	
Benzyl acetate	6.67	1164	0.03	8.42	1552	0.24	
Terpinen-4-ol	6.82	1174	0.21	9.64*	1649	[3.21]	
α-Terpineol	7.05	1189	0.40				
Safranal?	7.13	1195	0.03	8.53*	1560	0.37	
β-Cyclocitral?	7.46	1217	0.06	11.26	1785	0.13	
Benzylacetone	7.81	1241	0.09				
Unknown [m/z 87, 74 (65), 56 (51), 55 (43), 41 (35)...]	8.48	1281	0.08	7.68*	1494	0.20	
Methyl 8-methylnonanoate	8.56	1287	0.01	7.61	1488	0.01	
				8.06	1523	0.09	
Cogeijerene	8.62	1291	0.05	14.92*	2125	0.77	
4-Vinylguaiacol	8.87	1308	0.01				
Unknown [m/z 133, 108	9.17	1330	0.04				

(88), 93 (71), 91 (67), 105 (64), 119 (49)...204 (17)]						
African-1-ene	9.41	1346	0.02	6.76	1425	0.02
Unknown [m/z 95, 147 (61), 96 (39), 93 (37), 94 (37)... 204 (4)]	9.45	1349	0.02	6.81	1428	0.01
Cyclosativene II	9.63	1362	0.04	6.87	1433	0.03
α-Ylangene	9.71	1368	0.95	6.97	1440	0.92
2-epi-α-Funebrene	9.77*	1372	0.59	7.16*	1454	0.07
α-Copaene	9.77*	1372	[0.59]	7.07	1448	0.54
Unknown [m/z 143, 158 (51), 128 (45), 131 (43), 103 (33)... 204? (1)]	9.82	1376	0.09	7.08	1770	0.16
7-epi-Sesquithujene?	9.89	1380	0.01	7.68*	1484	[0.20]
Unknown [m/z 189, 133 (51), 91 (38), 107 (36), 105 (29), 109 (24), 204 (23)]	9.94	1384	0.16	7.42	1474	0.15
Unknown [m/z 189, 91 (60), 135 (26), 147 (22), 133 (22), 119 (21), 204 (20)]	9.98	1387	0.06	7.16*	1454	[0.07]
Cyclosativene	10.02	1390	0.07	7.50	1480	0.05
α-Cedrene	10.23	1405	0.46	7.90	1511	0.45
Acora-3,7(14)-diene	10.25	1407	0.11	8.12*	1528	0.32
β-Cedrene	10.34*	1413	0.74	8.24*	1537	0.12
β-Caryophyllene	10.34*	1413	[0.74]	8.31	1543	0.34
Unknown [m/z 119, 93 (35), 105 (42), 91 (27), 41 (19), 161 (19), 204 (17)]	10.34*	1413	[0.74]			
cis-α-Bergamotene	10.34*	1413	[0.74]	8.12*	1528	[0.32]
Cascarilladiene	10.41	1418	0.13	8.01	1519	0.12
β-Gurjunene	10.48	1424	0.01	8.24*	1537	[0.12]
trans-α-Bergamotene	10.64	1435	3.07	8.36	1547	3.04
6,9-Guaiadiene	10.71*†	1440	1.00	8.53*	1560	[0.37]
Cadina-4,11-diene	10.71*†	1440	[1.00]	9.08*	1603	0.43
1,2,2α,3,3,4,6,7,8,8α-Decahydro-2α,7,8-trimethylacenaphthylene	10.72 †	1441	[1.00]	8.57	1563	0.41
α-Humulene	10.80	1448	0.52	9.18	1611	0.47
allo-Aromadendrene	10.90	1455	0.74	8.90*	1589	0.78
Muurola-4,11-diene	10.93	1457	0.40	9.15*	1609	[0.71]
β-Acoradiene	10.97*†	1460	3.05	9.32	1623	0.53
cis-Muurola-4(15),5-diene	10.97*†	1460	[3.05]	9.23	1616	0.10
cis-Cadina-1(6),4-diene	10.97*†	1460	[3.05]	8.90*	1589	[0.78]
β-Santalene	10.97*†	1460	[3.05]	9.08*	1603	[0.43]
(*E*)-β-Farnesene	10.97*†	1460	[3.05]	9.48* †	1636	7.71
9-epi-β-Caryophyllene	10.99 †	1462	[3.05]	9.29	1620	0.23
10-epi-β-Acoradiene	11.06	1467	0.23	9.48*†	1636	[7.71]
trans-Cadina-1(6),4-diene	11.11	1470	1.99	9.15*	1609	[0.71]
γ-Muurolene	11.16	1474	[1.99]	9.51* †	1639	[7.71]

α-Amorphene	11.21	1478	4.67	9.51*†	1639	[7.71]
β-Selinene	11.23*†	1480	3.52	9.77	1659	0.53
cis-4,10-Epoxyamorphane	11.23*†	1480	[3.52]	9.64*	1649	[3.21]
ar-Curcumene	11.27*†	1482	[3.52]	10.56	1726	1.00
γ-Curcumene	11.27*†	1482	[3.52]	9.64*	1649	[3.21]
δ-Selinene	11.34*	1488	0.46	9.59	1645	0.07
β-Alaskene	11.34*	1488	[0.46]	9.56	1642	0.39
Unknown [m/z 161, 119 (94), 105 (93), 91 (79), 93 (66), 79 (45), 41 (44), 77 (39), 120 (38)... 204 (25)]	11.39*	1492	1.86			
Unknown [m/z 151, 67 (52), 69 (46), 41 (34), 95 (32), 55 (30), 105 (30)... 204 (3)]	11.39*	1492	[1.86]	10.87	1752	0.63
α-Muurolene	11.45*†	1496	3.10	9.95	1674	1.00
Epizonarene	11.45*†	1496	[3.10]	9.81	1663	2.00
δ-Amorphene	11.57	1505	3.54	9.86*	1667	4.16
β-Curcumene	11.65*†	1511	8.28	10.11	1687	0.14
β-Bisabolene	11.65*†	1511	[8.28]	10.07	1685	1.26
γ-Cadinene	11.65*†	1511	[8.28]	10.25*	1699	2.83
Unknown [m/z 151, 67 (51), 69 (48), 41 (42), 55 (32), 95 (32)...]	11.68	1513	[8.28]	11.15*	1776	2.21
(*Z*)-γ-Bisabolene	11.68†	1514	[8.28]	9.86*	1667	[4.16]
trans-Calamenene	11.74*†	1518	6.07	11.15*	1776	[2.21]
Sesquicineole	11.74*†	1518	[6.07]	10.25*	1699	[2.83]
cis-Calamenene?	11.80*†	1523	[6.07]	11.12	1773	0.11
δ-Cadinene	11.80*†	1523	[6.07]	10.35†	1708	[7.33]
Zonarene	11.80*†	1523	[6.07]	10.31*†	1704	7.33
trans-Cadina-1,4-diene	11.90*	1531	1.85	10.63*	1732	0.94
(*E*)-γ-Bisabolene	11.90*	1531	[1.85]	10.31*†	1704	[7.33]
Selina-4(15),7(11)-diene	11.95	1535	1.08	10.49*	1720	2.35
Unknown [m/z 189, 204 (92), 161 (65), 133 (51), 105 (51), 91 (51), 119 (45)]	11.98*	1538	1.69	10.44	1715	1.19
α-Cadinene	11.98*	1538	[1.69]	10.69	1736	0.47
Selina-3,7(11)-diene	11.98*	1538	[1.69]	10.49*	1720	[2.35]
α-Copaen-11-ol	11.98*	1538	[1.69]	13.64	2000	0.10
α-Calacorene	11.98*	1538	[1.69]	11.98	1849	0.44
(*E*)-α-Bisabolene	12.06	1544	0.89	10.63*	1732	[0.94]
Eudesma-5,7(11)-diene	12.25	1558	0.24	11.02	1765	0.14
β-Calacorene	12.36*	1568	7.06	12.56	1900	0.01
(*E*)-Nerolidol	12.36*	1568	[7.06]	13.69*	2005	7.05
Gleenol	12.55	1582	0.10	13.44	1982	0.31
Unknown [m/z 161, 119 (78), 105 (75), 120 (72), 43 (64)... 218 (4)]	12.62	1588	0.26	12.16	1885	0.21
Fokienol	12.77	1600	0.63	14.92*	2125	[0.77]
Unknown [m/z 151, 41	12.86	1607	0.18	14.16	2050	0.10

(15), 81 (13), 111 (13), 91 (13)...]	12.89	1609	0.36	14.19	2082	0.56	
Unknown [m/z 179, 161 (66), 119 (44), 95 (38), 105 (35)... 204 (24), 222 (1)]	13.02*	1620	0.31	14.54	2088	0.11	
Unknown [m/z 161, 43 (74), 105 (57), 121 (45), 81 (43)... 204 (31)...]	13.02*	1620	[0.31]	14.78*	2111	0.25	
Eremoligenol?	13.06	1623	0.48	14.34	2068	0.24	
α-Acorenol	13.10*	1627	1.26	14.76	2109	0.69	
γ-Eudesmol	13.10*	1627	[1.26]	13.69*	2005	[7.05]	
1-epi-Cubenol	13.22*	1637	1.05	14.73	2106	0.57	
τ-Cadinol	13.22*	1637	[1.05]	14.92*	2125	[0.77]	
τ-Muurolol	13.22*	1637	[1.05]	13.58	1995	0.20	
Cubenol	13.30*	1644	1.26	15.05	2138	0.20	
α-Muurolol	13.30*	1644	[1.26]	15.25†	2159	23.70	
β-Eudesmol	13.35*	1647	1.25	15.19	2152	0.92	
α-Eudesmol	13.35*	1647	[1.25]	15.34*†	2167	[23.70]	
7-epi-α-Eudesmol	13.39*	1650	0.78	14.37	2071	0.04	
α-Bisabolol oxide B, epimer 2	13.39*	1650	[0.78]	15.51*	2184	0.25	
cis-Guaia-3,9-dien-11-ol ?	13.39*	1650	[0.78]	15.36†	2170	[23.70]	
α-Cadinol	13.55	1664	0.20	14.25	2059	0.16	
α-Bisabolol oxide B, epimer 1	13.62	1670	0.81	15.51*	2184	[0.25]	
Unknown [m/z 147, 162 (74), 105 (68), 119 (53), 59 (51), 91 (48)...222 (1)]	13.84*	1688	22.34	14.66	2099	0.73	
β-Bisabolol	13.84*	1688	[22.34]	15.90	2224	0.16	
Juniper camphor	14.25	1722	0.13	15.34*†	2167	[23.70]	
α-Bisabolol	14.50	1745	0.10	16.70	2307	0.10	
(2*E*6*E*)-Farnesol				17.12	2353	0.10	
Unknown [m/z 107, 93 (54), 105 (54), 91 (53), 119 (53), 109 (39)...220 (13)]	14.62	1755	0.05	18.69	2527	0.03	
Benzyl benzoate	15.00	1788	0.02				
(*E*)-Cinnamyl tiglate	15.77	1857	0.01	20.00	2688	0.01	
Benzyl salicylate	18.09	2078	0.03	22.83	3040	0.04	
Benzyl (*E*)-cinnamate	18.37	2106	0.04	14.78*	2111	[0.25]	
Heneicosane	19.34	2206	0.04	15.77	2211	0.09	
Docosane	20.26	2306	0.25	16.73	2311	0.33	
Tricosane	21.03	2392	0.04				
(*E*)-Cinnamyl (*E*)- cinnamate	21.15	2405	0.03	17.67	2412	0.03	
Tetracosane	22.01	2505	0.11	18.55	2511	0.12	
Pentacosane	22.84	2604	0.01	19.40	2610	0.02	
Hexacosane	23.64	2704	0.07	20.24	2710	0.08	
Heptacosane	25.16	2902	0.01	21.83	2908	0.01	
Nonacosane							
Total identified	**95.24%**			**91.10%**			

Total reported	**96.78%**	**94.32%**

*: 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
RT: Retention time (minutes)
R.I.: Retention index