

Date : October 04, 2022

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 22I27-PTH01

Customer identification : Geranium Bourbon - Madagascar - G20108R

Type : Essential oil

Source : *Pelargonium graveolens* ct. Madagascar

Customer : Plant Therapy

ANALYSIS

Method: PC-MAT-014  - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Amélie Simard, Analyste

Analysis date : October 03, 2022

Checked and approved by :

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

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PHYSICOCHEMICAL DATA

Physical aspect: Light green yellow liquid

Refractive index: 1.4649 ± 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	tr	Aliphatic alcohol
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Isoamyl alcohol	0.01	Aliphatic alcohol
2-Methylbutanol	tr	Aliphatic alcohol
Toluene	tr	Simple phenolic
Isoamyl formate	tr	Aliphatic ester
Unknown	0.04	Unknown
3-Methylpentanol	0.04	Aliphatic alcohol
(3Z)-Hexenol	0.02	Aliphatic alcohol
Hexanol	0.01	Aliphatic alcohol
3-Acetyl-3-methylcyclopentene	0.01	Aliphatic ketone
3-Methylpentyl formate?	0.02	Aliphatic ester
Hashishene	0.01	Monoterpene
Tricyclene	0.02	Monoterpene
α -Thujene	tr	Monoterpene
α -Pinene	0.49	Monoterpene
Unknown	0.02	Simple phenolic
Camphene	0.01	Monoterpene
Geranic oxide	0.04	Monoterpenic ether
β -Pinene	0.02	Monoterpene
Sabinene	0.01	Monoterpene
Octen-3-ol	0.05	Aliphatic alcohol
6-Methyl-5-hepten-2-one	0.08	Aliphatic ketone
<i>trans</i> -Dehydroxylinalool oxide	0.04	Monoterpenic ether
Myrcene	0.16	Monoterpene
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α -Phellandrene	0.08	Monoterpene
Δ^3 -Carene	0.02	Monoterpene
<i>cis</i> -Dehydroxylinalool oxide	0.01	Monoterpenic ether
α -Terpinene	0.01	Monoterpene
para-Cymene	0.11	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
Limonene	0.16	Monoterpene
Unknown	0.02	Unknown
Unknown	0.03	Unknown
β -Phellandrene	0.06	Monoterpene
Benzeneacetaldehyde	0.01	Simple phenolic
(Z)- β -Ocimene	0.14	Monoterpene
(E)- β -Ocimene	0.12	Monoterpene
Unknown	0.03	Unknown
2,6-Dimethyl-5-heptenal (melonal)	0.02	Aliphatic aldehyde
γ -Terpinene	0.04	Monoterpene
Unknown	0.02	Oxygenated monoterpene
<i>cis</i> -Linalool oxide (fur.)	0.19	Monoterpenic alcohol

Octanol	0.02	Aliphatic alcohol
Fenchone	0.02	Monoterpenic ketone
<i>trans</i> -Linalool oxide (fur.)	0.07	Monoterpenic alcohol
para-Cymenene	0.01	Monoterpene
Terpinolene	0.03	Monoterpene
<i>trans</i> -Sabinene hydrate	0.03	Monoterpenic alcohol
Rosefuran	0.03	Monoterpenic ether
Linalool	5.19	Monoterpenic alcohol
(<i>Z</i>)-6-Methyl-3,5-heptadien-2-one	0.03	Aliphatic ketone
<i>cis</i> -Rose oxide	1.09	Monoterpenic ether
Phenylethyl alcohol	0.10	Simple phenolic
<i>trans</i> -Rose oxide	0.49	Monoterpenic ether
Unknown	0.06	Unknown
Unknown	0.04	Oxygenated normonoterpene
Menthone	1.24	Monoterpenic ketone
Citronellal	0.07	Monoterpenic aldehyde
iso-Isopulegol	0.03	Monoterpenic alcohol
Isomenthone	6.99	Monoterpenic ketone
Isoneral	0.02	Monoterpenic aldehyde
neo-Menthol	0.05	Monoterpenic alcohol
Terpinen-4-ol	0.04	Monoterpenic alcohol
Menthol	0.02	Monoterpenic alcohol
Isomenthol	0.13	Monoterpenic alcohol
para-Cymen-8-ol	0.04	Monoterpenic alcohol
α -Terpineol	0.37	Monoterpenic alcohol
Myrtenol	0.04	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Nerol	0.54	Monoterpenic alcohol
Citronellol	22.17	Monoterpenic alcohol
Neral	0.56	Monoterpenic aldehyde
Piperitone	0.08	Monoterpenic ketone
Geraniol	14.04	Monoterpenic alcohol
Geranial	0.88	Monoterpenic aldehyde
Citronellyl formate	10.65	Monoterpenic ester
Neryl formate	0.34	Monoterpenic ester
Geranyl formate	6.18	Monoterpenic ester
(3 <i>Z</i>)-Hexenyl tiglate	0.04	Aliphatic ester
Methyl geranate	0.01	Monoterpenic ester
Unknown	0.08	Sesquiterpene
α -Cubebene	0.04	Sesquiterpene
Citronellyl acetate	0.25	Monoterpenic ester
Phenylethyl propionate	0.02	Phenolic ester
Neryl acetate	0.10	Monoterpenic ester
Geranic acid	0.05	Aliphatic acid
α -Copaene	0.34	Sesquiterpene
β -Bourbonene	1.09	Sesquiterpene
1,5-diepi- β -Bourbonene	0.05	Sesquiterpene
Geranyl acetate	0.43	Monoterpenic ester
β -Elemene	0.12	Sesquiterpene
Phenylethyl isobutyrate	0.13	Phenolic ester
α -Gurjunene	0.04	Sesquiterpene
β -Caryophyllene	0.95	Sesquiterpene

Thymohydroquinone dimethyl ether	0.01	Monoterpenic ether
β-Copaene	0.12	Sesquiterpene
Heptyl tiglate	0.02	Aliphatic ester
α-Guaiene	0.63	Sesquiterpene
Isogermacrene D	0.03	Sesquiterpene
6,9-Guaiadiene	5.79	Sesquiterpene
Unknown	0.33	Sesquiterpene
Citronellyl propionate	0.40	Monoterpenic ester
α-Humulene	0.23	Sesquiterpene
allo-Aromadendrene	0.18	Sesquiterpene
trans-Cadina-1(6),4-diene	0.12	Sesquiterpene
γ-Murolene	0.10	Sesquiterpene
Germacrene D	0.76	Sesquiterpene
α-Amorphene	0.03	Sesquiterpene
Geranyl propionate	1.07	Monoterpenic ester
β-Selinene	0.18	Sesquiterpene
Phenylethyl isovalerate	0.04	Phenolic ester
γ-Amorphene	0.07	Sesquiterpene
Bicyclogermacrene	0.02	Sesquiterpene
Viridiflorene	0.03	Sesquiterpene
4-epi-cis-Dihydroagarofuran	0.10	Sesquiterpenic ether
α-Murolene	0.10	Sesquiterpene
γ-Cadinene	0.26	Sesquiterpene
Geranyl isobutyrate	0.34	Monoterpenic ester
trans-Calamenene	0.18	Sesquiterpene
δ-Cadinene	0.47	Sesquiterpene
trans-Cadina-1,4-diene	0.04	Sesquiterpene
Citronellyl butyrate	0.50	Monoterpenic ester
α-Cadinene	0.08	Sesquiterpene
Phenylethyl angelate?	0.02	Phenolic ester
α-Agarofuran	0.16	Sesquiterpenic ether
Furopolargone isomer	0.12	Sesquiterpenic ketone
1-nor-Bourbonanone	0.07	Norsesquiterpenic ketone
Geranyl butyrate	0.98	Monoterpenic ester
Spathulenol	0.03	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Caryophyllene oxide	0.22	Sesquiterpenic ether
Globulol	0.03	Sesquiterpenic alcohol
Furopolargone A	0.59	Sesquiterpenic ketone
Phenylethyl tiglate	0.49	Phenolic ester
Geranyl 2-methylbutyrate?	0.03	Monoterpenic ester
Geranyl isovalerate	0.39	Monoterpenic ester
10-epi-Cubenol	0.22	Sesquiterpenic alcohol
10-epi-γ-Eudesmol	0.03	Sesquiterpenic alcohol
1-epi-Cubenol	0.09	Sesquiterpenic alcohol
γ-Eudesmol	0.03	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Citronellyl valerate?	0.02	Monoterpenic ester
τ-Murolol	0.02	Sesquiterpenic alcohol
Cubenol	0.07	Sesquiterpenic alcohol
β-Eudesmol	0.02	Sesquiterpenic alcohol
α-Cadinol	0.08	Sesquiterpenic alcohol

Valerianol	0.01	Sesquiterpenic alcohol
<i>cis</i> -Calamenen-10-ol	0.03	Sesquiterpenic alcohol
Geranyl valerate	0.10	Monoterpenic ester
Citronellyl tiglate	0.29	Monoterpenic ester
Citronellyl 4-methylvalerate	0.10	Monoterpenic ester
Geranyl tiglate	1.18	Monoterpenic ester
3 β ,4 β -Oxidoagarofuran?	0.03	Sesquiterpenic ether
Geranyl 4-methylvalerate?	0.16	Monoterpenic ester
Citronellyl caproate	0.04	Monoterpenic ester
Geranyl caproate	0.06	Monoterpenic ester
Citronellyl heptanoate	0.03	Monoterpenic ester
Phytone	0.03	Terpenic ketone
Geranyl heptanoate	0.04	Monoterpenic ester
Citronellyl caprylate	0.03	Monoterpenic ester
Geranyl caprylate	0.04	Monoterpenic ester
Consolidated total	95.88%	

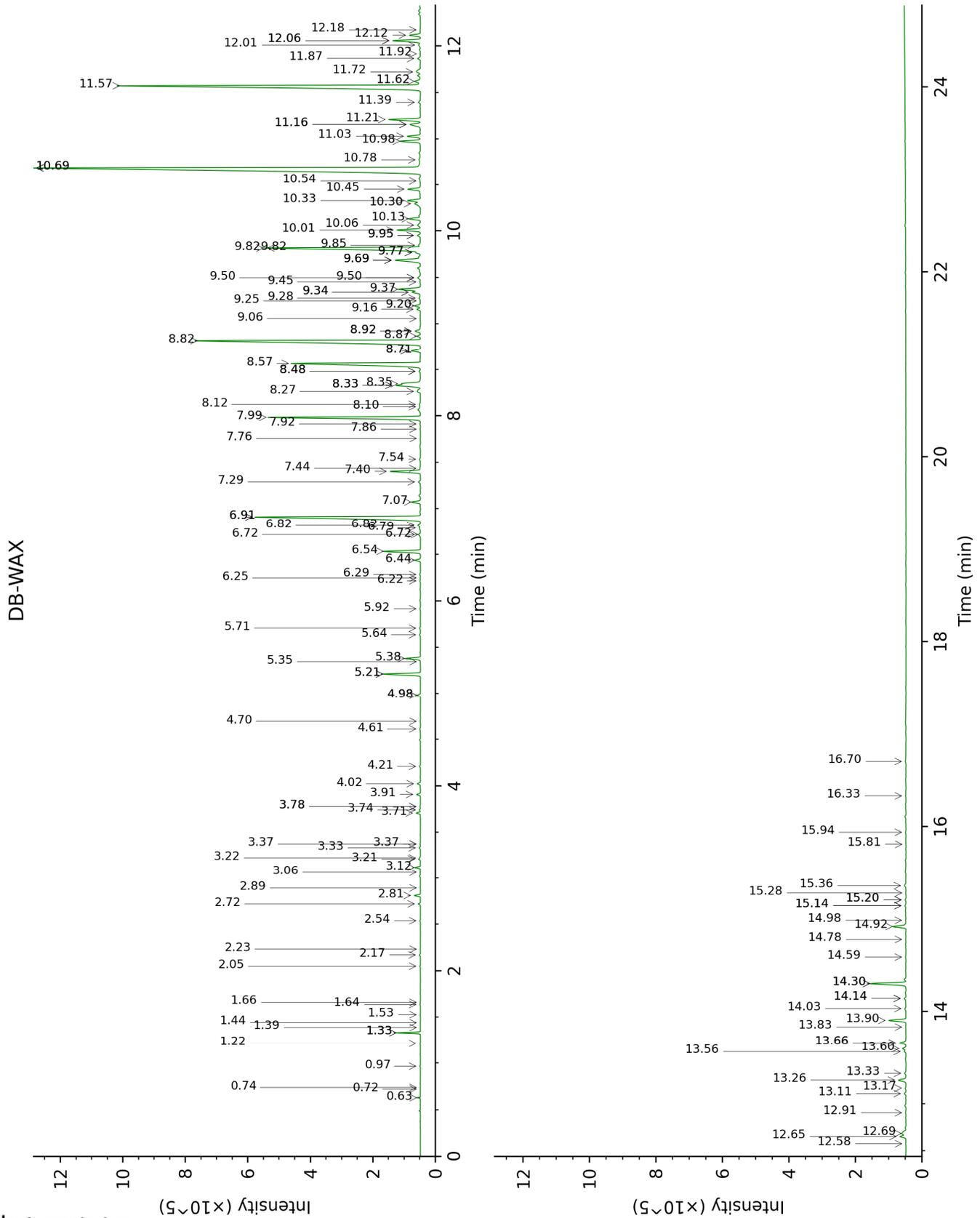
tr: The compound has been detected below 0.005% of total signal.

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.

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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
2-Methyl-3-buten-2-ol	0.53	603	tr	1.53	1014	0.01
Isovaleral	0.66	642	tr	0.74	887	tr
2-Methylbutyral	0.69	652	tr	0.72	881	tr
Isoamyl alcohol	1.06	731	0.01	3.37*	1177	0.02
2-Methylbutanol	1.11	737	tr	3.37*	1177	[0.02]
Toluene	1.26	758	tr	1.39	1000	tr
Isoamyl formate	1.49	789	tr	1.66	1027	0.01
Unknown [m/z 81, 69 (80), 41 (65), 83 (52), 109 (48), 55 (47)...]	1.84	823	0.04	0.63	844	0.04
3-Methylpentanol	2.13	846	0.04	4.98*	1295	0.11
(3Z)-Hexenol	2.25	856	0.02	5.71	1347	0.04
Hexanol	2.45	872	0.01	5.35	1321	0.01
3-Acetyl-3-methylcyclopentene	2.56	882	0.01	0.97	931	0.01
3-Methylpentyl formate?	2.79	900	0.02	3.06	1153	0.02
Hashishene	3.02	916	0.01	1.33*	993	0.50
Tricyclene	3.07	919	0.02	1.22	973	0.02
α -Thujene	3.18	926	tr	1.44	1005	tr
α -Pinene	3.25	931	0.49	1.33*	993	[0.50]
Unknown [m/z 122, 121 (36), 107 (33), 79 (27), 93 (25), 77 (25), 43 (20)]	3.30	934	0.02	3.78*	1208	0.02
Camphene	3.43	943	0.01	1.64	1025	0.02
Geranic oxide	3.85	970	0.04	2.17	1079	0.03
β -Pinene	3.88*	972	0.03	2.05	1066	0.02
Sabinene	3.88*	972	[0.03]	2.23	1085	0.01
Octen-3-ol	4.05	983	0.05	6.72*	1421	0.09
6-Methyl-5-hepten-2-one	4.11	987	0.08	4.98*	1295	[0.11]
<i>trans</i> -Dehydroxylinalool oxide	4.20*	993	0.20	3.33	1174	0.04
Myrcene	4.20*	993	[0.20]	2.81	1133	0.16
6-Methyl-5-hepten-2-ol	4.25	996	0.02	6.82*	1429	0.09
α -Phellandrene	4.34	1003	0.08	2.72	1126	0.06
Δ 3-Carene	4.42*	1007	0.04	2.54	1111	0.02
<i>cis</i> -Dehydroxylinalool oxide	4.42*	1007	[0.04]	3.78*	1208	[0.02]
α -Terpinene	4.54	1015	0.01	2.89	1139	0.01
para-Cymene	4.66	1023	0.11	4.02	1226	0.10
1,8-Cineole	4.74*†	1027	0.30	3.22	1165	0.02
Limonene	4.74*†	1027	[0.30]	3.12	1157	0.16

Unknown [m/z 59, 43 (11), 109 (10), 41 (10), 127 (8)...]	4.74*†	1027	[0.30]	6.22	1384	0.02
Unknown [m/z 59, 43 (12), 109 (11), 41 (10), 127 (8)...]	4.74*†	1027	[0.30]	6.29	1389	0.03
β-Phellandrene	4.77†	1029	[0.30]	3.21	1164	0.06
Benzeneacetaldehyde	4.91	1038	0.01	8.70*	1573	0.34
(Z)-β-Ocimene	4.95	1041	0.14	3.71	1203	0.12
(E)-β-Ocimene	5.11*	1051	0.13	3.91	1217	0.12
Unknown [m/z 125, 69 (75), 41 (34), 55 (25), 93 (22)... 140 (3)]	5.11*	1051	[0.13]	4.61	1268	0.03
2,6-Dimethyl-5-heptenal (melonal)	5.16	1054	0.02	5.21*	1312	1.19
γ-Terpinene	5.25	1060	0.04	3.74	1205	0.04
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.38	1068	0.02	4.70	1274	0.02
cis-Linalool oxide (fur.)	5.44	1072	0.19	6.44	1401	0.18
Octanol	5.52	1077	0.02	8.10	1526	0.02
Fenchone	5.60	1082	0.02	5.64	1342	0.04
trans-Linalool oxide (fur.)	5.70*	1087	0.13	6.79	1427	0.07
para-Cymenene	5.70*	1087	[0.13]	6.25	1387	0.01
Terpinolene	5.70*	1087	[0.13]	4.21	1239	0.03
trans-Sabinene hydrate	5.82	1095	0.03	7.86	1507	0.02
Rosefuran	5.87	1098	0.03	5.92	1363	0.03
Linalool	5.97	1104	5.19	7.99	1517	5.17
(Z)-6-Methyl-3,5-heptadien-2-one	6.00	1107	0.03	8.12	1528	0.06
cis-Rose oxide	6.08*	1112	1.20	5.21*	1312	[1.19]
Phenylethyl alcohol	6.08*	1112	[1.20]	12.01	1849	0.10
trans-Rose oxide	6.32	1127	0.49	5.38	1324	0.49
Unknown [m/z 95, 67 (86), 41 (68), 82 (64), 123 (62)...]	6.46	1136	0.06	7.44	1475	0.03
Unknown [m/z 41, 69 (87), 82 (66), 67 (55), 109 (46)... 142 (18)]	6.58	1143	0.04	9.28	1618	0.06
Menthone	6.70	1151	1.24	6.54	1408	1.25
Citronellal	6.76*	1155	0.10	6.91*	1436	7.12
iso-Isopulegol	6.76*	1155	[0.10]	7.92	1512	0.03
Isomenthone	6.87	1162	6.99	6.91*	1436	[7.12]
Isoneral	6.90	1164	0.02	7.76	1499	0.01
neo-Menthol	6.94	1166	0.05	8.48*	1555	0.07
Terpinen-4-ol	7.06	1174	0.04	8.48*	1555	[0.07]
Menthol	7.11	1177	0.02	9.06	1600	0.02
Isomenthol	7.18	1182	0.13	8.87	1585	0.11

para-Cymen-8-ol	7.22	1184	0.04	11.40	1795	0.09
α-Terpineol	7.30	1190	0.37	9.69*	1652	1.14
Myrtenol	7.39	1195	0.04	10.78	1742	0.11
Unknown [m/z 123, 81 (40), 67 (29), 79 (29), 93 (26), 121 (25), 41 (24), 55 (18), 69 (15)...]	7.57	1207	0.03			
Nerol	7.93	1231	0.54	10.98	1759	0.71
Citronellol	8.04	1238	22.17	10.69*	1735	22.38
Neral	8.08	1241	0.56	9.37†	1626	[1.20]
Piperitone	8.23	1251	0.08	9.77*	1658	0.14
Geraniol	8.42	1264	14.04	11.57	1810	13.87
Geranial	8.55	1272	0.88	10.01	1678	0.79
Citronellyl formate	8.68	1281	10.65	8.82	1582	10.80
Neryl formate	8.73	1284	0.34	9.34*†	1624	1.20
Geranyl formate	9.06	1304	6.18	9.82*	1662	6.27
(3Z)-Hexenyl tiglate	9.19	1314	0.04	9.25	1616	0.01
Methyl geranate	9.35	1325	0.01	9.69*	1652	[1.14]
Unknown [m/z 95, 147 (61), 96 (39), 93 (37), 94 (37)... 204 (4)]	9.68*	1348	0.19	6.82*	1429	[0.09]
α-Cubebene	9.68*	1348	[0.19]	6.72*	1421	[0.09]
Citronellyl acetate	9.78*	1355	0.27	9.34*†	1624	[1.20]
Phenylethyl propionate	9.78*	1355	[0.27]	11.92	1841	0.02
Neryl acetate	9.93	1366	0.10	10.06	1682	0.16
Geranic acid	9.97	1368	0.05	16.70	2302	0.05
α-Copaene	10.03	1373	0.34	7.07	1448	0.32
β-Bourbonene	10.14	1381	1.09	7.40	1473	1.06
1,5-diepi-β-Bourbonene	10.17	1382	0.05	7.29	1464	0.07
Geranyl acetate	10.20	1385	0.43	10.45	1715	0.48
β-Elemene	10.27	1390	0.12	8.33*†	1544	1.56
Phenylethyl isobutyrate	10.30	1392	0.13	11.87	1836	0.11
α-Gurjunene	10.48	1405	0.04	7.54	1482	0.05
β-Caryophyllene	10.61	1414	0.95	8.33*†	1544	[1.56]
Thymohydroquinone dimethyl ether	10.68	1420	0.01	11.72	1824	0.24
β-Copaene	10.75	1425	0.12	8.27	1539	0.19
Heptyl tiglate	10.83	1431	0.02			
α-Guaiene	10.90	1436	0.63	8.35†	1545	[1.56]
Isogermacrene D	10.97*	1441	5.82	8.92*	1590	0.22
6,9-Guaiadiene	10.97*	1441	[5.82]	8.57	1562	5.79
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	11.02*	1445	0.77	8.70*	1573	[0.34]
Citronellyl propionate	11.02*	1445	[0.77]	10.13	1688	0.40
α-Humulene	11.07	1449	0.23	9.20	1612	0.22
allo-Aromadendrene	11.16	1455	0.18	8.92*	1590	[0.22]

<i>trans</i> -Cadina-1(6),4-diene	11.36*	1470	0.22	9.16	1609	0.12
γ-Muurolene	11.36*	1470	[0.22]	9.50*	1636	0.13
Germacrene D	11.44*	1476	1.87	9.69*	1652	[1.14]
α-Amorphene	11.44*	1476	[1.87]	9.45	1632	0.03
Geranyl propionate	11.44*	1476	[1.87]	11.21	1779	1.07
β-Selinene	11.51	1481	0.18	9.82*	1662	[6.27]
Phenylethyl isovalerate	11.55†	1484	0.31	12.91	1931	0.04
γ-Amorphene	11.57†	1486	[0.31]	9.77*	1658	[0.14]
Bicyclogermacrene	11.64*	1491	0.11	9.95*	1673	0.13
Viridiflorene	11.64*	1491	[0.11]	9.50*	1636	[0.13]
4-epi- <i>cis</i> -Dihydroagarofuran	11.70	1495	0.10	9.85	1664	0.09
α-Muurolene	11.73	1498	0.10	9.95*	1673	[0.13]
γ-Cadinene	11.89	1510	0.26	10.30	1701	0.31
Geranyl isobutyrate	11.95	1515	0.34	11.16*	1774	0.52
<i>trans</i> -Calamenene	12.00†	1519	0.75	11.16*	1774	[0.52]
δ-Cadinene	12.03†	1521	[0.75]	10.33	1704	0.47
<i>trans</i> -Cadina-1,4-diene	12.10	1526	0.04	10.54	1722	0.03
Citronellyl butyrate	12.14	1530	0.50	11.03	1764	0.47
α-Cadinene	12.20*	1535	0.10	10.69*	1735	[22.38]
Phenylethyl angelate?	12.20*	1535	[0.10]	14.14*	2045	0.08
α-Agarofuran	12.24	1537	0.16	11.62	1815	0.27
Furopelargone isomer	12.44	1553	0.12	12.69	1911	0.26
1-nor-Bourbonanone	12.55*	1562	1.07	13.33	1969	0.07
Geranyl butyrate	12.55*	1562	[1.07]	12.06*	1854	1.01
Spathulenol	12.64	1568	0.03	14.30*	2060	1.25
Caryophyllene oxide isomer	12.70†	1574	0.34	12.58	1901	0.02
Caryophyllene oxide	12.72†	1575	[0.34]	12.65	1908	0.22
Globulol	12.74	1577	0.03	13.83	2016	0.03
Furopelargone A	12.80*	1582	1.09	13.90	2023	0.59
Phenylethyl tiglate	12.80*	1582	[1.09]	14.92	2120	0.49
Geranyl 2-methylbutyrate?	13.06	1601	0.03	12.06*	1854	[1.01]
Geranyl isovalerate	13.08	1603	0.39	12.12	1859	0.40
10-epi-Cubenol	13.16	1609	0.22	13.60	1994	0.13
10-epi-γ-Eudesmol	13.19	1612	0.03	14.03	2035	0.06
1-epi-Cubenol	13.32	1623	0.09	13.66*	2000	0.27
γ-Eudesmol	13.34*	1625	0.07	14.78	2106	0.03
Unknown [m/z 147, 162 (79), 43 (64), 59 (64), 95 (47), 91 (44), 105 (43)... 238 (13)]	13.34*	1625	[0.07]	15.14*	2142	0.05
Citronellyl valerate?	13.40	1630	0.02	12.18	1864	0.03
τ-Muurolol	13.49*	1637	0.13	14.98	2127	0.02
Cubenol	13.49*	1637	[0.13]	13.56	1991	0.07
β-Eudesmol	13.56	1643	0.02	15.28	2156	0.02
α-Cadinol	13.66*	1651	0.14	15.36	2164	0.08

Valerianol	13.66*	1651	[0.14]	15.20*	2149	0.04
<i>cis</i> -Calamennen-10-ol	13.66*	1651	[0.14]	16.33	2263	0.03
Geranyl valerate	13.74	1657	0.10	13.11	1950	0.06
Citronellyl tiglate	13.84	1666	0.29	13.26	1963	0.32
Citronellyl 4-methylvalerate	14.08	1686	0.10			
Geranyl tiglate	14.27*	1701	1.22	14.30*	2060	[1.25]
3 β ,4 β -Oxidoagarofuran?	14.27*	1701	[1.22]	15.94	2223	0.03
Geranyl 4-methylvalerate?	14.47	1718	0.16	13.66*	2000	[0.27]
Citronellyl caproate	14.50	1721	0.04	13.17	1955	0.04
Geranyl caproate	14.89	1754	0.06	14.14*	2045	[0.08]
Citronellyl heptanoate	15.61	1818	0.03			
Phytone	15.92	1846	0.03	14.59	2088	0.03
Geranyl heptanoate	15.98	1851	0.04	15.14*	2142	[0.05]
Citronellyl caprylate	16.68	1915	0.03	15.20*	2149	[0.04]
Geranyl caprylate	17.04	1949	0.04	15.81	2210	0.01
Total identified		96.37%			96.22%	
Total reported		96.58%			96.46%	

*: 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