

Date : June 12, 2020

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 20F10-PTH11

Customer identification : Geranium Egyptian - Egypt - G3010697R

Type : Essential oil

Source : *Pelargonium asperum* ct. Egyptian

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 : Fanny Charlier, B. Sc.

Analysis date : June 12, 2020

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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

PHYSICOCHEMICAL DATA

Physical aspect: Light yellow liquid

Refractive index: 1.4681 ± 0.0003 (20 °C; method PC-MAT-016)

ISO 4731:2012 - OIL OF GERANIUM - NORTH AFRICA

Compound	Min. %	Max. %	Observed %	Complies?
Phenylethyl tiglate	0.5	1.2	0.8	Yes
Geranyl tiglate	0.9	2.0	1.1	Yes
10-epi- γ -Eudesmol	3.0	6.2	4.5	Yes
Geranyl butyrate	0.7	2.0	1.0	Yes
Geraniol	10.0	18.0	13.9	Yes
Citronellol	25.0	36.0	30.8	Yes
Geranyl formate	2.0	7.0	2.8	Yes
α -Terpineol	0.3	0.6	0.4	Yes
Citronellyl formate	4.0	8.0	7.0	Yes
6,9-Guaiadiene		0.5	0.4	Yes
Linalool	4.0	8.5	5.1	Yes
Isomenthone	4.0	8.0	5.7	Yes
Menthone		2.1	0.8	Yes
trans-Rose oxide	0.3	0.6	0.4	Yes
cis-Rose oxide	0.7	1.5	0.9	Yes
Refractive index	1.4610	1.4750	1.4681	Yes

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. The oil complies with the ISO standard for North African geranium oil.

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
Toluene	tr	Simple phenolic
Prenal	tr	Aliphatic aldehyde
Hexanal	tr	Aliphatic aldehyde
Dimethyl sulfoxide	0.01	Aliphatic sulfoxide
3-Methylpentanol	0.03	Aliphatic alcohol
(3Z)-Hexenol	0.01	Aliphatic alcohol
Hexanol	tr	Aliphatic alcohol
Unknown	0.01	Unknown
3-Methylpentyl formate?	0.01	Aliphatic ester
α -Pinene	0.43	Monoterpene
Camphene	tr	Monoterpene
α -Fenchene	tr	Monoterpene
β -Pinene	0.01	Monoterpene
Geranic oxide	0.06	Monoterpenic ether
Sabinene	0.01	Monoterpene
Octen-3-ol	0.01	Aliphatic alcohol
6-Methyl-5-hepten-2-one	0.05	Aliphatic ketone
<i>trans</i> -Dehydroxylinolool oxide	0.03	Monoterpenic ether
Myrcene	0.11	Monoterpene
6-Methyl-5-hepten-2-ol	tr	Aliphatic alcohol
α -Phellandrene	0.06	Monoterpene
Δ^3 -Carene	0.03	Monoterpene
α -Terpinene	tr	Monoterpene
para-Cymene	0.08	Monoterpene
Unknown	0.04	Unknown
β -Phellandrene	0.05	Monoterpene
Unknown	0.03	Unknown
Limonene	0.16	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
(Z)- β -Ocimene	0.12	Monoterpene
Unknown	0.02	Unknown
(E)- β -Ocimene	0.13	Monoterpene
2,6-Dimethyl-5-heptenal (melonal)	0.03	Aliphatic aldehyde
γ -Terpinene	0.07	Monoterpene
Unknown	0.02	Oxygenated monoterpene
<i>cis</i> -Linalool oxide (fur.)	0.18	Monoterpenic alcohol
Octanol	0.01	Aliphatic alcohol
Fenchone	0.02	Monoterpenic ketone
Terpinolene	0.04	Monoterpene
<i>trans</i> -Linalool oxide (fur.)	0.12	Monoterpenic alcohol
<i>trans</i> -Sabinene hydrate	0.06	Monoterpenic alcohol

Linalool	5.08	Monoterpenic alcohol
Phenylethyl alcohol	0.11	Simple phenolic
<i>cis</i> -Rose oxide	0.93	Monoterpenic ether
<i>trans</i> -Rose oxide	0.41	Monoterpenic ether
Isopulegol	0.08	Monoterpenic alcohol
Menthone	0.77	Monoterpenic ketone
Unknown	0.05	Unknown
Citronellal	0.17	Monoterpenic aldehyde
Isomenthone	5.67	Monoterpenic ketone
neo-Menthol	0.09	Monoterpenic alcohol
Terpinen-4-ol	0.10	Monoterpenic alcohol
Menthol	0.03	Monoterpenic alcohol
Isomenthol	0.18	Monoterpenic alcohol
para-Cymen-8-ol	0.05	Monoterpenic alcohol
α -Terpineol	0.44	Monoterpenic alcohol
Unknown	0.03	Unknown
Unknown	0.03	Oxygenated monoterpene
β -Cyclocitral?	0.03	Monoterpenic aldehyde
Nerol	0.21	Monoterpenic alcohol
Citronellol	30.85	Monoterpenic alcohol
Neral	0.50	Monoterpenic aldehyde
Piperitone	0.04	Monoterpenic ketone
Geraniol	13.94	Monoterpenic alcohol
Geranial	0.76	Monoterpenic aldehyde
Citronellyl formate	6.99	Monoterpenic ester
Neryl formate	0.11	Monoterpenic ester
Geranyl formate	2.84	Monoterpenic ester
(3Z)-Hexenyl tiglate	0.02	Aliphatic ester
Methyl geranate	0.03	Monoterpenic ester
Citronellic acid	0.06	Monoterpenic acid
α -Cubebene	0.23	Sesquiterpene
Citronellyl acetate	0.26	Monoterpenic ester
Neryl acetate	0.06	Monoterpenic ester
α -Ylangene	0.06	Sesquiterpene
Geranic acid	0.07	Aliphatic acid
α -Copaene	0.49	Sesquiterpene
β -Bourbonene	1.00	Sesquiterpene
1,5-diepi- β -Bourbonene	0.07	Sesquiterpene
Geranyl acetate	0.52	Monoterpenic ester
Phenylethyl isobutyrate	0.07	Phenolic ester
Isocaryophyllene	0.02	Sesquiterpene
α -Gurjunene	0.09	Sesquiterpene
β -Caryophyllene	1.21	Sesquiterpene
Thymohydroquinone dimethyl ether	0.01	Monoterpenic ether
β -Copaene	0.14	Sesquiterpene
Heptyl tiglate	0.01	Aliphatic ester
Aromadendrene	0.04	Sesquiterpene
Isogermacrene D	0.04	Sesquiterpene
6,9-Guaiadiene	0.39	Sesquiterpene
Unknown	0.38	Sesquiterpene
Citronellyl propionate	0.32	Monoterpenic ester
α -Humulene	0.25	Sesquiterpene

allo-Aromadendrene	0.20	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.23	Sesquiterpene
α -Amorphene	0.15	Sesquiterpene
Germacrene D	1.37	Sesquiterpene
γ -Muurolene	0.15	Sesquiterpene
Geranyl propionate	0.65	Monoterpenic ester
β -Selinene	0.16	Sesquiterpene
γ -Amorphene	0.11	Sesquiterpene
Phenylethyl isovalerate	0.05	Phenolic ester
α -Selinene	0.20	Sesquiterpene
Viridiflorene	0.21	Sesquiterpene
Bicyclogermacrene	0.27	Sesquiterpene
4-epi- <i>cis</i> -Dihydroagarofuran	0.02	Sesquiterpenic ether
α -Muurolene	0.24	Sesquiterpene
γ -Cadinene	0.37	Sesquiterpene
7-epi- α -Selinene	0.09	Sesquiterpene
Geranyl isobutyrate	0.21	Monoterpenic ester
<i>trans</i> -Calamenene	0.23	Sesquiterpene
δ -Cadinene	0.72	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.10	Sesquiterpene
Citronellyl butyrate	0.50	Monoterpenic ester
Phenylethyl angelate?	0.12	Phenolic ester
α -Agarofuran	0.34	Sesquiterpenic ether
1-nor-Bourbonanone	0.04	Norsesquiterpenic ketone
Geranyl butyrate	1.00	Monoterpenic ester
Spathulenol	0.19	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Caryophyllene oxide	0.12	Sesquiterpenic ether
Globulol	0.08	Sesquiterpenic alcohol
Phenylethyl tiglate	0.81	Phenolic ester
Viridiflorol	0.06	Sesquiterpenic alcohol
Geranyl isovalerate	0.10	Monoterpenic ester
10-epi- γ -Eudesmol	4.48	Sesquiterpenic alcohol
1-epi-Cubenol	0.12	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
γ -Eudesmol	0.18	Sesquiterpenic alcohol
Citronellyl valerate?	0.18	Monoterpenic ester
τ -Cadinol	0.07	Sesquiterpenic alcohol
Cubenol	0.19	Sesquiterpenic alcohol
τ -Muurolol	0.07	Sesquiterpenic alcohol
α -Eudesmol	0.23	Sesquiterpenic alcohol
Jinkoh-eremol	0.13	Sesquiterpenic alcohol
β -Eudesmol	0.27	Sesquiterpenic alcohol
Valerianol	0.11	Sesquiterpenic alcohol
Geranyl valerate	0.17	Monoterpenic ester
<i>trans</i> -Calamenen-10-ol	0.01	Sesquiterpenic alcohol
Citronellyl tiglate	0.30	Monoterpenic ester
Citronellyl 4-methylvalerate	0.09	Monoterpenic ester
Geranyl tiglate	1.14	Monoterpenic ester
Geranyl 4-methylvalerate?	0.17	Monoterpenic ester
Citronellyl caproate	0.06	Monoterpenic ester
Geranyl caproate	0.11	Monoterpenic ester

Citronellyl heptanoate	0.06	Monoterpenic ester
Phytone	0.03	Terpenic ketone
Geranyl heptanoate	0.10	Monoterpenic ester
Citronellyl caprylate	0.04	Monoterpenic ester
Geranyl caprylate	0.06	Monoterpenic ester
Unknown	0.07	Unknown
Unknown	0.07	Unknown
Consolidated total	96.13%	

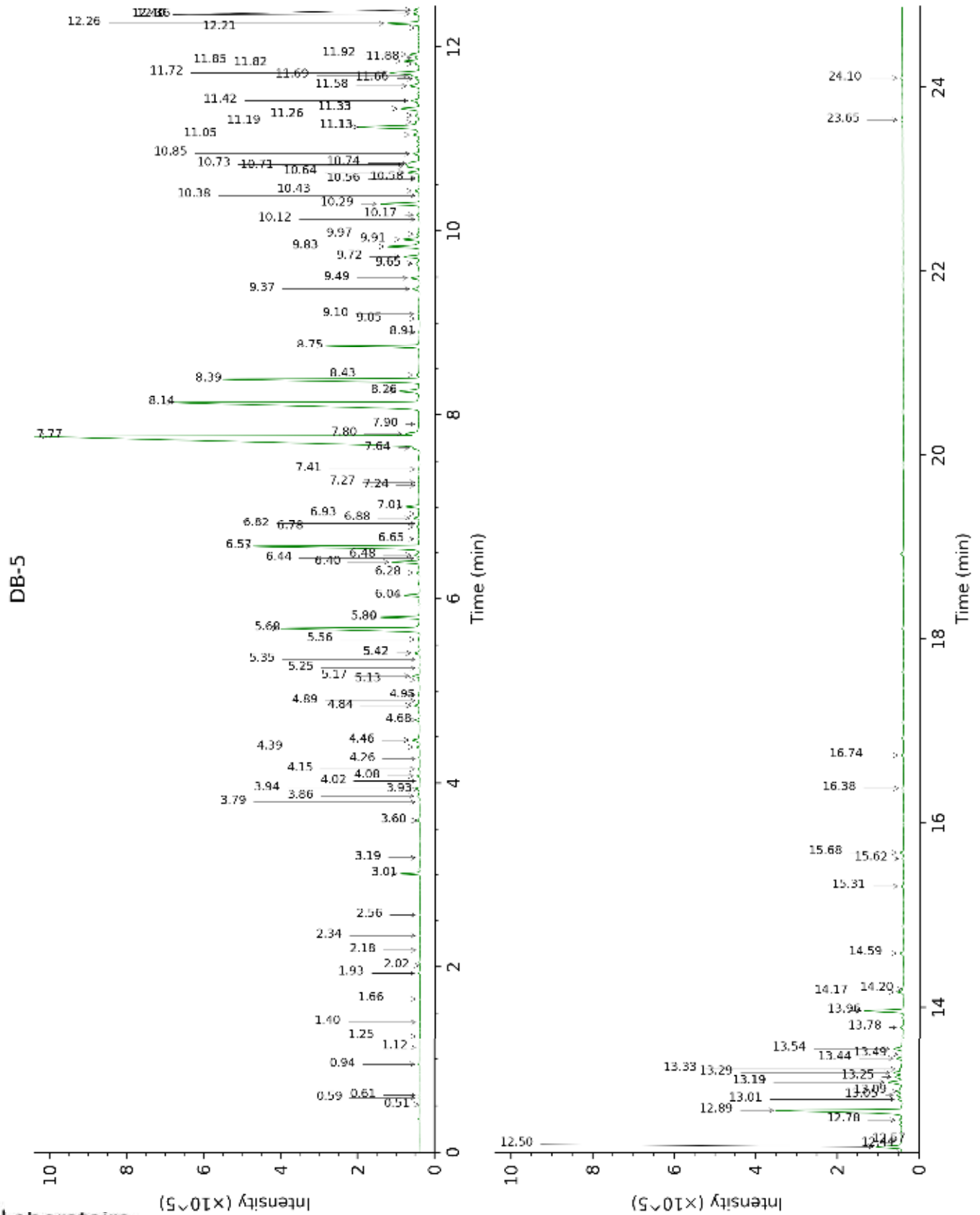
tr: The compound has been detected below 0.005% of total signal.

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	0.51	604	tr	1.50	1012	tr
Isovaleral	0.59	640	tr	0.73	885	tr
2-Methylbutyral	0.61	652	tr	0.71	879	tr
Isoamyl alcohol	0.94	738	0.01	3.33	1174	0.02
Toluene	1.12	763	tr	1.43	1005	tr
Prenal	1.25	780	tr	3.10*	1156	0.16
Hexanal	1.40	802	tr	1.80	1042	tr
Dimethyl sulfoxide	1.66	825	0.01	7.82	1503	0.01
3-Methylpentanol	1.93	848	0.03	4.96*	1297	0.09
(3Z)-Hexenol	2.02	855	0.01	5.79	1352	0.01
Hexanol	2.18	868	tr	5.38*	1322	0.43
Unknown [m/z 81, 79 (20), 80 (12), 82 (9)... 124 (7)]	2.34	881	0.01	0.96	932	0.01
3-Methylpentyl formate?	2.56	900	0.01	3.06	1153	0.01
α-Pinene	3.01	930	0.43	1.32	990	0.43
Camphene	3.19*	942	0.01	1.64	1026	tr
α-Fenchene	3.19*	942	[0.01]	1.62	1024	tr
β-Pinene	3.60*	968	0.08	2.03	1065	0.01
Geranic oxide	3.60*	968	[0.08]	2.16	1077	0.06
Sabinene	3.60*	968	[0.08]	2.21	1083	0.01
Octen-3-ol	3.79	982	0.01	6.70	1418	0.02
6-Methyl-5-hepten-2-one	3.86	986	0.05	4.96*	1297	[0.09]
<i>trans</i> -Dehydroxylinalool oxide	3.93†	991	0.14	3.32	1174	0.03
Myrcene	3.94†	991	[0.14]	2.80	1132	0.11
6-Methyl-5-hepten-2-ol	4.02	997	tr	6.91*	1434	5.78
α-Phellandrene	4.08	1000	0.06	2.71	1125	0.06
Δ3-Carene	4.15	1005	0.03	2.52	1110	0.03
α-Terpinene	4.26	1012	tr	2.96	1145	tr
para-Cymene	4.39	1020	0.08	4.00	1226	0.08
Unknown [m/z 59, 43 (11), 109 (10), 41 (10), 127 (8)...]	4.46*†	1025	0.32	6.22	1383	0.04
β-Phellandrene	4.46*†	1025	[0.32]	3.20	1164	0.05
Unknown [m/z 59, 43 (12), 109 (11), 41 (10), 127 (8)...]	4.46*†	1025	[0.32]	6.28	1388	0.03
Limonene	4.46*†	1025	[0.32]	3.10*	1156	[0.16]
1,8-Cineole	4.46*†	1025	[0.32]	3.22	1166	0.02
(Z)-β-Ocimene	4.68	1038	0.12	3.70	1203	0.10
Unknown [m/z 125, 69 (75), 41 (34), 55	4.84*	1048	0.16	4.61	1271	0.02

(25), 93 (22)... 140 (3)]						
(E)-β-Ocimene	4.84*	1048	[0.16]	3.90	1218	0.13
2,6-Dimethyl-5-heptenal (melonal)	4.89	1052	0.03	5.21*	1310	1.03
γ-Terpinene	4.95	1056	0.07	3.73	1206	0.07
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.13	1066	0.02	4.70	1277	0.02
cis-Linalool oxide (fur.)	5.17	1069	0.18	6.44	1399	0.19
Octanol	5.25	1075	0.01	8.12	1526	0.02
Fenchone	5.35	1080	0.02	5.64	1341	0.02
Terpinolene	5.42*	1085	0.14	4.19	1240	0.04
trans-Linalool oxide (fur.)	5.42*	1085	[0.14]	6.81	1427	0.12
trans-Sabinene hydrate	5.56	1094	0.06	7.90	1509	0.07
Linalool	5.68	1102	5.08	7.98	1515	5.02
Phenylethyl alcohol	5.80*	1110	1.05	12.02	1848	0.11
cis-Rose oxide	5.80*	1110	[1.05]	5.21*	1310	[1.03]
trans-Rose oxide	6.04	1125	0.41	5.38*	1322	[0.43]
Isopulegol	6.28	1141	0.08	8.04	1520	0.09
Menthone	6.40	1148	0.77	6.54	1406	0.78
Unknown [m/z 43, 141 (51), 55 (36), 69 (31), 41 (29)... 156 (4)]	6.44	1151	0.05	8.47*†	1553	0.50
Citronellal	6.48	1153	0.17	6.91*	1434	[5.78]
Isomenthone	6.57	1160	5.67	6.91*	1434	[5.78]
neo-Menthol	6.65	1165	0.09	8.55*†	1559	[0.50]
Terpinen-4-ol	6.78	1173	0.10	8.47*†	1553	[0.50]
Menthol	6.82	1176	0.03	9.16	1607	0.22
Isomenthol	6.88	1180	0.18	8.81*	1580	7.09
para-Cymen-8-ol	6.93	1183	0.05	11.41	1794	0.03
α-Terpineol	7.01	1188	0.44	9.70*	1651	1.84
Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28)... 170 (12)]	7.24	1203	0.03			
Unknown [m/z 123, 81 (40), 67 (29), 79 (29), 93 (26), 121 (25), 41 (24), 55 (18), 69 (15)...]	7.27	1205	0.03			
β-Cyclocitral?	7.41	1215	0.03	8.55*†	1559	[0.50]
Nerol	7.64	1231	0.21	10.96	1756	0.37
Citronellol	7.77	1240	30.85	10.70	1733	30.77
Neral	7.80	1242	0.50	9.37*	1624	0.79
Piperitone	7.90	1249	0.04	9.80*	1659	3.07
Geraniol	8.14	1265	13.94	11.56	1807	13.84
Geranial	8.26	1273	0.76	10.01	1676	0.69
Citronellyl formate	8.39	1282	6.99	8.81*	1580	[7.09]

Neryl formate	8.43	1286	0.11	9.37*	1624	[0.79]
Geranyl formate	8.75	1308	2.84	9.80*	1659	[3.07]
(3Z)-Hexenyl tiglate	8.91	1314	0.02	9.29	1617	0.10
Methyl geranate	9.05	1324	0.03	9.70*	1651	[1.84]
Citronellic acid	9.10	1328	0.06	15.94	2223	0.09
α -Cubebene	9.37	1347	0.23	6.72	1420	0.18
Citronellyl acetate	9.49	1355	0.26	9.37*	1624	[0.79]
Neryl acetate	9.65*	1366	0.19	10.07	1681	0.06
α -Ylangene	9.65*	1366	[0.19]	6.91*	1434	[5.78]
Geranic acid	9.65*	1366	[0.19]	16.66	2297	0.07
α -Copaene	9.72	1372	0.49	7.08	1446	0.47
β -Bourbonene	9.83*	1380	1.04	7.41	1471	1.00
1,5-diepi- β - Bourbonene	9.83*	1380	[1.04]	7.29	1463	0.07
Geranyl acetate	9.91	1385	0.52	10.46	1714	0.54
Phenylethyl isobutyrate	9.97	1389	0.07	11.92	1839	0.10
Isocaryophyllene	10.12	1400	0.02	8.16	1529	0.01
α -Gurjunene	10.17	1404	0.09	7.54	1481	0.07
β -Caryophyllene	10.29	1412	1.21	8.34	1542	1.19
Thymohydroquinone dimethyl ether	10.38	1419	0.01	11.79	1828	0.01
β -Copaene	10.43	1423	0.14	8.29	1538	0.12
Heptyl tiglate	10.56*	1432	0.05			
Aromadendrene	10.56*	1432	[0.05]	8.45	1551	0.04
Isogermacrene D	10.58	1434	0.04	8.86	1583	0.17
6,9-Guaiadiene	10.64	1438	0.39	8.55*†	1559	[0.50]
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	10.71†	1443	0.80	8.71	1571	0.38
Citronellyl propionate	10.73†	1445	[0.80]	10.16	1688	0.32
α -Humulene	10.74	1446	0.25	9.20*	1610	0.27
allo-Aromadendrene	10.85	1454	0.20	8.92	1588	0.31
<i>trans</i> -Cadina-1(6),4- diene	11.05	1469	0.23	9.20*	1610	[0.27]
α -Amorphene	11.13*	1475	2.36	9.48	1633	0.15
Germacrene D	11.13*	1475	[2.36]	9.70*	1651	[1.84]
γ -Murolene	11.13*	1475	[2.36]	9.50	1635	0.15
Geranyl propionate	11.13*	1475	[2.36]	11.23	1778	0.65
β -Selinene	11.19	1479	0.16	9.80*	1659	[3.07]
γ -Amorphene	11.26*	1484	0.19	9.72	1653	0.11
Phenylethyl isovalerate	11.26*	1484	[0.19]	13.00	1937	0.05
α -Selinene	11.33*	1490	0.69	9.85	1663	0.20
Viridiflorene	11.33*	1490	[0.69]	9.57	1640	0.21
Bicylogermacrene	11.33*	1490	[0.69]	9.97*	1673	0.51
4-epi- <i>cis</i> - Dihydroagarofuran	11.42*	1496	0.33	9.80*	1659	[3.07]
α -Murolene	11.42*	1496	[0.33]	9.97*	1673	[0.51]
γ -Cadinene	11.58	1508	0.37	10.30	1700	0.45

7-epi- α -Selinene	11.66	1514	0.09	10.34*	1703	0.81
Geranyl isobutyrate	11.69	1517	0.21	11.19	1775	0.10
<i>trans</i> -Calamenene	11.72*	1520	1.01	11.15	1772	0.23
δ -Cadinene	11.72*	1520	[1.01]	10.34*	1703	[0.81]
<i>trans</i> -Cadina-1,4-diene	11.82	1527	0.10	10.58	1723	0.09
Citronellyl butyrate	11.85	1530	0.50	11.06	1765	0.51
Phenylethyl angelate?	11.88	1532	0.12	14.19	2048	0.11
α -Agarofuran	11.92	1535	0.34	11.69	1819	0.41
1-nor-Bourbonanone	12.21	1558	0.04	13.36	1970	0.02
Geranyl butyrate	12.26	1562	1.00	12.09	1854	1.02
Spathulenol	12.36	1570	0.19	14.30	2059	0.20
Caryophyllene oxide isomer	12.40*	1573	0.17	12.60	1900	0.02
Caryophyllene oxide	12.40*	1573	[0.17]	12.68	1906	0.12
Globulol	12.44	1576	0.08	13.81	2012	0.07
Phenylethyl tiglate	12.50	1581	0.81	14.91	2119	0.76
Viridiflorol	12.57	1586	0.06	13.90	2020	0.06
Geranyl isovalerate	12.78	1603	0.10	12.16*	1860	0.18
10-epi- γ -Eudesmol	12.89	1612	4.48	14.04	2034	4.24
1-epi-Cubenol	13.00*	1621	0.13	13.68	1999	0.12
Unknown [m/z 147, 162 (79), 43 (64), 59 (64), 95 (47), 91 (44), 105 (43)... 238 (13)]	13.00*	1621	[0.13]	15.19*	2147	0.30
γ -Eudesmol	13.05	1625	0.18	14.82	2110	0.22
Citronellyl valerate?	13.09	1628	0.18	12.16*	1860	[0.18]
τ -Cadinol	13.19*	1636	0.54	14.77	2105	0.07
Cubenol	13.19*	1636	[0.54]	13.61	1993	0.19
τ -Muurolol	13.19*	1636	[0.54]	14.96	2123	0.07
α -Eudesmol	13.25*	1641	0.26	15.30	2158	0.23
Jinkoh-eremol	13.25*	1641	[0.26]	15.06	2133	0.13
β -Eudesmol	13.29	1645	0.27	15.36	2163	0.20
Valerianol	13.33	1648	0.11	15.25	2153	0.24
Geranyl valerate	13.44	1657	0.17	13.15	1950	0.15
<i>trans</i> -Calamenen-10-ol	13.49	1661	0.01	16.78	2310	0.03
Citronellyl tiglate	13.54	1666	0.30	13.29	1964	0.31
Citronellyl 4-methylvalerate	13.78	1686	0.09			
Geranyl tiglate	13.96	1700	1.14	14.33	2062	1.17
Geranyl 4-methylvalerate?	14.17	1718	0.17	13.71	2002	0.18
Citronellyl caproate	14.20	1721	0.06			
Geranyl caproate	14.59	1754	0.11	14.26	2055	0.07
Citronellyl heptanoate	15.31	1818	0.06			
Phytone	15.62	1846	0.03	14.65	2092	0.09
Geranyl heptanoate	15.68	1852	0.10	15.19*	2147	[0.30]
Citronellyl caprylate	16.38	1916	0.04			
Geranyl caprylate	16.74	1950	0.06	15.19*	2147	[0.30]

Unknown [m/z 69, 83 (59), 81 (56), 137 (48), 41 (29), 139 (28)...]	23.65	2718	0.07	21.68	2886	0.06
Unknown [m/z 69, 81 (84), 137 (53), 83 (30), 95 (27), 41 (19)...]	24.10	2777	0.07	22.61	3008	0.07
Total identified	95.47%			94.87%		
Total reported	96.55%			95.50%		

*: 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