

Date : August 30, 2021

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

**Internal code :** 21H17-ORA03

**Customer identification :** Egyptian Geranium - Egypt - 3 years

**Type :** Essential oil

**Source :** *Pelargonium graveolens* ct. Egyptian

**Customer :** Organic Aromas Inc.

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 :** Seydou Ka, Ph. D.

**Analysis date :** August 24, 2021

Checked and approved by :

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

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#### *PHYSICOCHEMICAL DATA*

**Physical aspect:** Light yellow liquid

**Refractive index:**  $1.4677 \pm 0.0003$  (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
Isobutyral	tr	Aliphatic aldehyde
2-Methyl-3-buten-2-ol	0.01	Aliphatic alcohol
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Isoamyl alcohol	0.01	Aliphatic alcohol
Toluene	tr	Simple phenolic
Isobutyric acid	tr	Aliphatic acid
Hexanal	tr	Aliphatic aldehyde
Dimethyl sulfoxide	0.01	Aliphatic sulfoxide
3-Methylpentanol	0.03	Aliphatic alcohol
Hexanol	tr	Aliphatic alcohol
3-Acetyl-3-methylcyclopentene	0.01	Aliphatic ketone
3-Methylpentyl formate?	0.01	Aliphatic ester
α-Pinene	0.45	Monoterpene
Unknown	0.01	Unknown
Camphepane	0.01	Monoterpene
Benzaldehyde	0.01	Simple phenolic
Geranic oxide	0.04	Monoterpenic ether
Sabinene	0.01	Monoterpene
β-Pinene	0.01	Monoterpene
Octen-3-ol	0.02	Aliphatic alcohol
6-Methyl-5-hepten-2-one	0.09	Aliphatic ketone
Myrcene	0.10	Monoterpene
trans-Dehydroxylinalool oxide	0.03	Monoterpenic ether
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
cis-Dehydroxylinalool oxide	0.01	Monoterpenic ether
α-Phellandrene	0.04	Monoterpene
Δ3-Carene	0.03	Monoterpene
α-Terpinene	0.01	Monoterpene
para-Cymene	0.08	Monoterpene
β-Phellandrene	0.02*	Monoterpene
1,8-Cineole	[0.02]*	Monoterpenic ether
Unknown	0.05	Unknown
Limonene	0.15	Monoterpene
Unknown	0.03	Unknown
(Z)-β-Ocimene	0.07	Monoterpene
(E)-β-Ocimene	0.08	Monoterpene
Unknown	0.02	Unknown
2,6-Dimethyl-5-heptenal (melonal)	0.01	Aliphatic aldehyde
γ-Terpinene	0.01	Monoterpene
Unknown	0.02	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.17	Monoterpenic alcohol
Octanol	0.01	Aliphatic alcohol
Fenchone	0.02	Monoterpenic ketone
para-Cymenene	tr	Monoterpene

<i>trans</i> -Linalool oxide (fur.)	0.11	Monoterpnic alcohol
Terpinolene	0.03	Monoterpane
<i>trans</i> -Sabinene hydrate	0.01	Monoterpnic alcohol
Linalool	3.69	Monoterpnic alcohol
(Z)-6-Methyl-3,5-heptadien-2-one	0.07	Aliphatic ketone
<i>cis</i> -Rose oxide	0.98	Monoterpnic ether
<i>trans</i> -Rose oxide	0.41	Monoterpnic ether
Unknown	0.04	Unknown
Isopulegol	0.09	Monoterpnic alcohol
Menthone	1.53	Monoterpnic ketone
Unknown	0.06	Unknown
Citronellal	0.10	Monoterpnic aldehyde
iso-Isopulegol	0.05	Monoterpnic alcohol
Borneol	tr	Monoterpnic alcohol
Isomenthone	4.76	Monoterpnic ketone
neo-Menthol	0.05	Monoterpnic alcohol
Terpinen-4-ol	0.05	Monoterpnic alcohol
Menthol	0.03	Monoterpnic alcohol
Isomenthol	0.15	Monoterpnic alcohol
para-Cymen-8-ol	0.03	Monoterpnic alcohol
$\alpha$ -Terpineol	0.29	Monoterpnic alcohol
Unknown	0.02	Unknown
Unknown	0.03	Oxygenated monoterpene
$\beta$ -Cyclocitral	0.02	Monoterpnic aldehyde
Nerol	0.24	Monoterpnic alcohol
Citronellol	33.30	Monoterpnic alcohol
Neral	0.53	Monoterpnic aldehyde
Piperitone	0.09	Monoterpnic ketone
Geraniol	13.95	Monoterpnic alcohol
Geranal	0.92	Monoterpnic aldehyde
Citronellyl formate	6.81	Monoterpnic ester
Neryl formate	0.12	Monoterpnic ester
Geranyl formate	2.57	Monoterpnic ester
(3Z)-Hexenyl tiglate	0.01	Aliphatic ester
Methyl geranate	0.04	Monoterpnic ester
Citronellic acid	0.10	Monoterpnic acid
$\alpha$ -Cubebene	0.22	Sesquiterpene
Phenylethyl propionate	0.02	Phenolic ester
Citronellyl acetate	0.28	Monoterpnic ester
$\alpha$ -Ylangene	0.06	Sesquiterpene
Geranic acid	0.04	Aliphatic acid
$\alpha$ -Copaene	0.48	Sesquiterpene
$\beta$ -Bourbonene	1.02	Sesquiterpene
1,5-diepi- $\beta$ -Bourbonene	0.09	Sesquiterpene
Geranyl acetate	0.35	Monoterpnic ester
Phenylethyl isobutyrate	0.07	Phenolic ester
Isocaryophyllene	0.02	Sesquiterpene
$\beta$ -Caryophyllene	1.18	Sesquiterpene
$\beta$ -Copaene	0.13	Sesquiterpene
Heptyl tiglate	0.06	Aliphatic ester
Aromadendrene	0.03	Sesquiterpene
6,9-Guaiadiene	0.27	Sesquiterpene

Isogermacrene D	0.03	Sesquiterpene
Unknown	0.44	Sesquiterpene
Citronellyl propionate	0.36	Monoterpenic ester
$\alpha$ -Humulene	0.27	Sesquiterpene
allo-Aromadendrene	0.20	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.19	Sesquiterpene
$\gamma$ -Murolene	0.12	Sesquiterpene
Germacrene D	1.08	Sesquiterpene
$\alpha$ -Amorphene	0.07	Sesquiterpene
Geranyl propionate	0.63	Monoterpenic ester
$\beta$ -Selinene	0.13	Sesquiterpene
$\gamma$ -Amorphene	0.06	Sesquiterpene
Phenylethyl isovalerate	0.03	Phenolic ester
Viridiflorene	0.14	Sesquiterpene
Bicyclogermacrene	0.21	Sesquiterpene
$\alpha$ -Selinene	0.21	Sesquiterpene
4-epi- <i>cis</i> -Dihydroagarofuran	0.06	Sesquiterpenic ether
$\alpha$ -Murolene	0.25	Sesquiterpene
$\gamma$ -Cadinene	0.41	Sesquiterpene
Geranyl isobutyrate	0.30	Monoterpenic ester
Zonarene	0.01	Sesquiterpene
$\delta$ -Cadinene	0.89	Sesquiterpene
<i>trans</i> -Calamenene	0.10	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.15	Sesquiterpene
Citronellyl butyrate	0.49	Monoterpenic ester
Phenylethyl angelate?	0.05	Phenolic ester
$\alpha$ -Agarofuran	0.35	Sesquiterpenic ether
1-nor-Bourbonanone	0.01	Norsesquiterpenic ketone
Geranyl butyrate	0.82	Monoterpenic ester
Spathulenol	0.23	Sesquiterpenic alcohol
Caryophyllene oxide	0.14	Sesquiterpenic ether
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Globulol	0.08	Sesquiterpenic alcohol
Phenylethyl tiglate	0.88	Phenolic ester
Viridiflorol	0.06	Sesquiterpenic alcohol
Geranyl 2-methylbutyrate?	0.09	Monoterpenic ester
Geranyl isovalerate	0.08	Monoterpenic ester
10-epi- $\gamma$ -Eudesmol	5.01	Sesquiterpenic alcohol
1-epi-Cubenol	0.15	Sesquiterpenic alcohol
$\gamma$ -Eudesmol	0.21	Sesquiterpenic alcohol
Citronellyl valerate?	0.20	Monoterpenic ester
Agarospirol?	0.07	Sesquiterpenic alcohol
Jinkoh-eremol	0.10	Sesquiterpenic alcohol
Cubenol	0.23	Sesquiterpenic alcohol
$\tau$ -Cadinol	0.27	Sesquiterpenic alcohol
$\beta$ -Eudesmol	0.30	Sesquiterpenic alcohol
$\alpha$ -Eudesmol	0.32	Sesquiterpenic alcohol
$\alpha$ -Cadinol	0.13	Sesquiterpenic alcohol
<i>cis</i> -Calamenen-10-ol	0.05	Sesquiterpenic alcohol
Geranyl valerate	0.16	Monoterpenic ester
<i>trans</i> -Calamenen-10-ol	0.05	Sesquiterpenic alcohol
Citronellyl tiglate	0.36	Monoterpenic ester

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Citronellyl 4-methylvalerate	0.11	Monoterpenic ester
Geranyl tiglate	1.26	Monoterpenic ester
3β,4β-Oxidoagarofuran?	tr	Sesquiterpenic ether
Geranyl 4-methylvalerate?	0.18	Monoterpenic ester
Citronellyl caproate	0.06	Monoterpenic ester
Geranyl caproate	0.10	Monoterpenic ester
Citronellyl heptanoate	0.07	Monoterpenic ester
Phytone	0.03	Terpenic ketone
Geranyl heptanoate	0.12	Monoterpenic ester
Unknown	0.03	Unknown
Citronellyl caprylate	0.04	Monoterpenic ester
Geranyl caprylate	0.05	Monoterpenic ester
Unknown	0.05	Unknown
<b>Consolidated total</b>	<b>96.68%</b>	

\*: 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

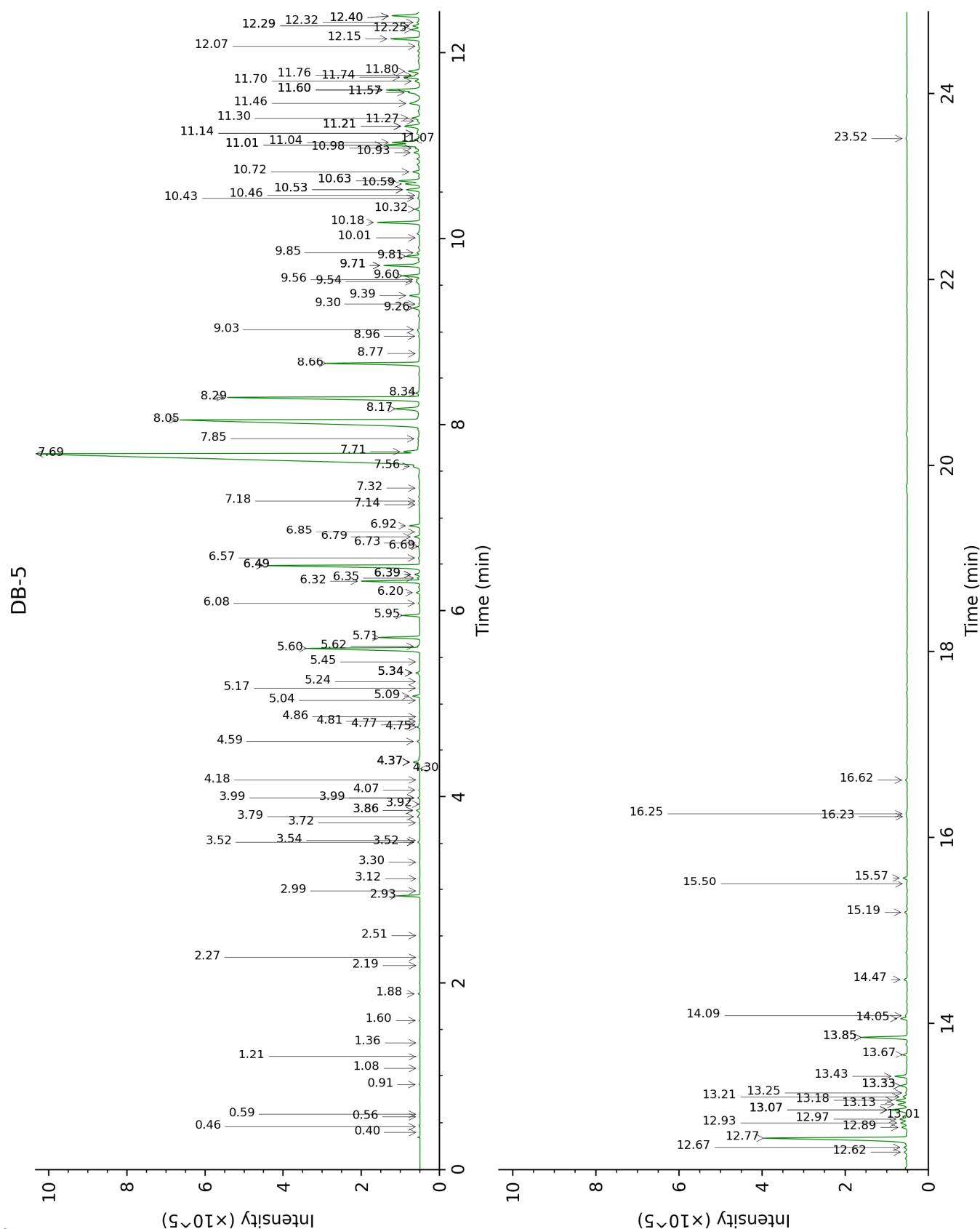
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

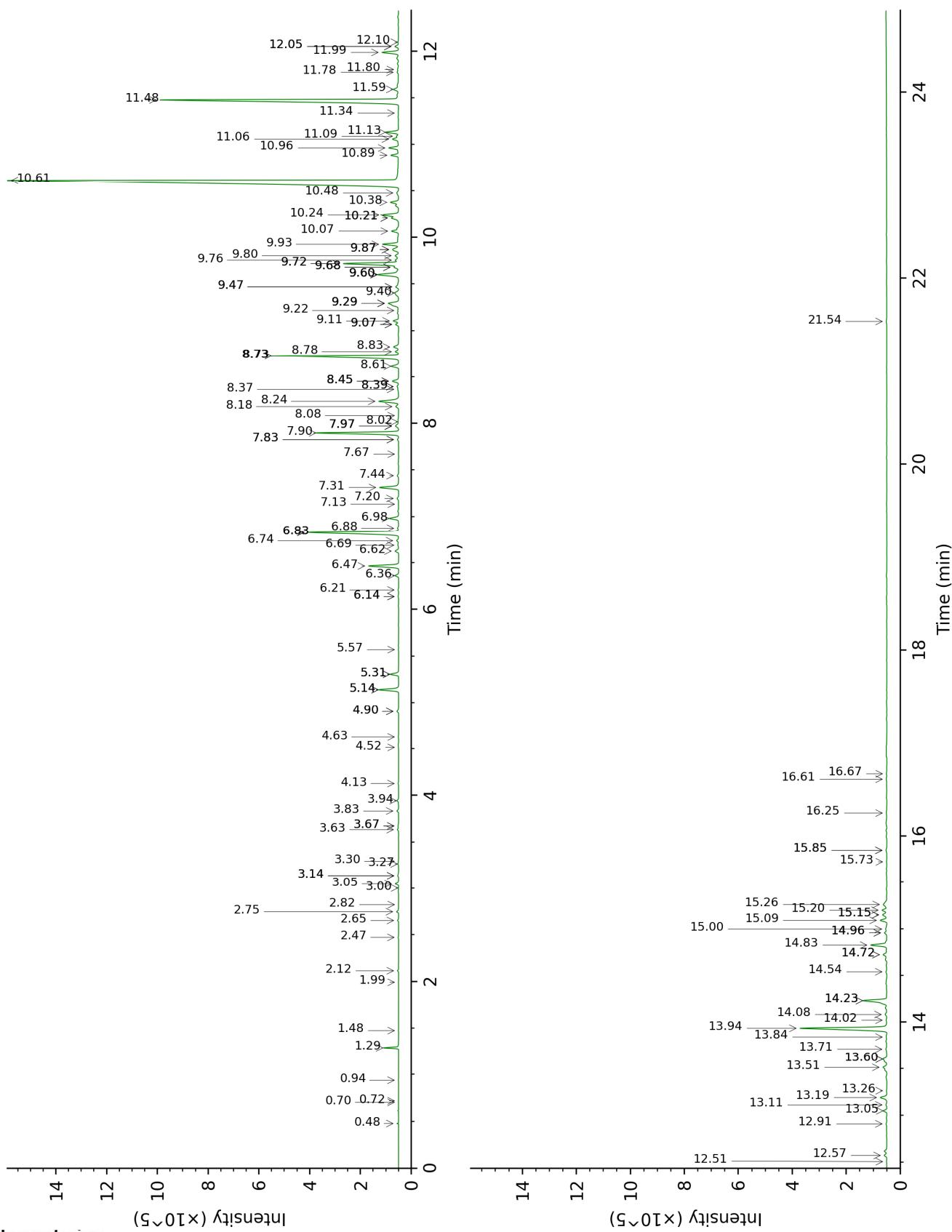
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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



DB-WAX



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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Isobutyral	0.40	537	tr	0.48	783	0.02
2-Methyl-3-buten-2-ol	0.46	596	0.01	1.48	1012	0.01
Isovaleral	0.56	642	tr	0.72	886	tr
2-Methylbutyral	0.59	652	tr	0.70	880	tr
Isoamyl alcohol	0.91	731	0.01	3.30	1177	0.02
Toluene	1.08	758	tr			
Isobutyric acid	1.21	777	tr	7.97*	1521	0.22
Hexanal	1.36	800	tr			
Dimethyl sulfoxide	1.60	822	0.01	7.67	1498	0.01
3-Methylpentanol	1.88	847	0.03	4.90*	1300	0.09
Hexanol	2.19	873	tr	5.31*	1323	0.41
3-Acetyl-3-methylcyclopentene	2.27	881	0.01	0.94	931	0.01
3-Methylpentyl formate?	2.51	901	0.01	3.00	1153	0.01
$\alpha$ -Pinene	2.93	930	0.45	1.29	991	0.44
Unknown [m/z 122, 107 (38), 121 (35), 79 (28), 77 (27), 43 (26)...]	2.99	934	0.01			
Camphene	3.12	943	0.01			
Benzaldehyde	3.30	955	0.01	7.14	1458	0.01
Geranic oxide	3.52*	970	0.05	2.12	1078	0.04
Sabinene	3.52*	970	[0.05]			
$\beta$ -Pinene	3.54	971	0.01	1.99	1065	0.01
Octen-3-ol	3.72	984	0.02	6.69	1424	0.06
6-Methyl-5-hepten-2-one	3.79	988	0.09	4.90*	1300	[0.09]
Myrcene	3.86*	993	0.10	2.75	1133	0.10
<i>trans</i> -Dehydroxylinalool oxide	3.86*	993	[0.10]	3.27	1175	0.03
6-Methyl-5-hepten-2-ol	3.92	997	0.02	6.83*	1435	4.88
<i>cis</i> -Dehydroxylinalool oxide	3.99*	1002	0.05	3.67*	1207	0.04
$\alpha$ -Phellandrene	3.99*	1002	[0.05]	2.65	1125	0.04
$\Delta$ 3-Carene	4.07	1007	0.03	2.47	1111	0.02
$\alpha$ -Terpinene	4.18	1014	0.01	2.82	1139	0.01
para-Cymene	4.30	1022	0.08	3.94	1228	0.09
$\beta$ -Phellandrene	4.37*†	1026	0.25	3.14*	1164	0.06
1,8-Cineole	4.37*†	1026	[0.25]	3.14*	1164	[0.06]
Unknown [m/z 59, 43 (11), 109 (10), 41 (10), 127 (8)...]	4.37*†	1026	[0.25]	6.14*	1384	0.04
Limonene	4.37*†	1026	[0.25]	3.05	1157	0.15

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Unknown [m/z 59, 43 (12), 109 (11), 41 (10), 127 (8)...]	4.37*†	1026	[0.25]	6.21	1389	0.03
(Z)-β-Ocimene	4.59	1040	0.07	3.64	1204	0.06
(E)-β-Ocimene	4.75	1050	0.08	3.83	1219	0.08
Unknown [m/z 125, 69 (75), 41 (34), 55 (25), 93 (22)... 140 (3)]	4.77	1052	0.02	4.52	1271	0.01
2,6-Dimethyl-5-heptenal (melonal)	4.81	1054	0.01	5.14*	1311	0.97
γ-Terpinene	4.86	1057	0.01	3.67*	1207	[0.04]
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.04	1068	0.02	4.63	1279	0.02
cis-Linalool oxide (fur.)	5.09	1071	0.17	6.36	1400	0.18
Octanol	5.17	1077	0.01	8.08	1530	0.01
Fenchone	5.24	1081	0.02	5.57	1342	0.01
para-Cymenene	5.34*	1087	0.12	6.14*	1384	[0.04]
trans-Linalool oxide (fur.)	5.34*	1087	[0.12]	6.74	1428	0.11
Terpinolene	5.34*	1087	[0.12]	4.13	1241	0.03
trans-Sabinene hydrate	5.45	1095	0.01	7.83*	1510	0.06
Linalool	5.60	1104	3.69	7.90	1515	3.73
(Z)-6-Methyl-3,5-heptadien-2-one	5.62	1105	0.07	8.02	1524	0.02
cis-Rose oxide	5.72	1111	0.98	5.14*	1311	[0.97]
trans-Rose oxide	5.95	1126	0.41	5.31*	1323	[0.41]
Unknown [m/z 95, 67 (86), 41 (68), 82 (64), 123 (62)...]	6.08	1135	0.04	7.44	1480	0.07
Isopulegol	6.20	1142	0.09	7.97*	1521	[0.22]
Menthone	6.32	1150	1.53	6.47	1408	1.53
Unknown [m/z 43, 141 (51), 55 (36), 69 (31), 41 (29)... 156 (4)]	6.35	1152	0.06	8.36	1552	0.06
Citronellal	6.39*	1154	0.14	6.83*	1435	[4.88]
iso-Isopulegol	6.39*	1154	[0.14]	7.83*	1510	[0.06]
Borneol	6.48*	1161	4.79	9.60*	1650	1.36
Isomenthone	6.48*	1161	[4.79]	6.83*	1435	[4.88]
neo-Menthol	6.57	1166	0.05	8.45*	1558	0.34
Terpinen-4-ol	6.69	1174	0.05	8.39*	1554	0.09
Menthol	6.73	1176	0.03	9.07*	1607	0.14
Isomenthol	6.79	1180	0.15	8.78	1583	0.16
para-Cymen-8-ol	6.85	1184	0.03	11.34	1796	0.03
α-Terpineol	6.92	1189	0.29	9.60*	1650	[1.36]

Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28)... 170 (12)]	7.14	1203	0.02			
Unknown [m/z 123, 81 (40), 67 (29), 79 (29), 93 (26), 121 (25), 41 (24), 55 (18), 69 (15)...]	7.18	1206	0.03			
β-Cyclocitral	7.32	1215	0.02	8.45*	1558	[0.34]
Nerol	7.56	1231	0.24	10.89	1757	0.36
Citronellol	7.69	1240	33.30	10.61	1734	33.29
Neral	7.71	1241	0.53	9.29*	1625	0.85
Piperitone	7.85	1250	0.09	9.76†	1663	[2.91]
Geraniol	8.05	1264	13.95	11.48	1808	13.75
Geranal	8.17	1272	0.92	9.93	1676	0.79
Citronellyl formate	8.29	1280	6.81	8.73*	1580	6.84
Neryl formate	8.34	1283	0.12	9.29*	1625	[0.85]
Geranyl formate	8.66	1305	2.57	9.72*†	1660	2.91
(3Z)-Hexenyl tiglate	8.77	1313	0.01	9.22	1619	0.04
Methyl geranate	8.96	1326	0.04	9.60*	1650	[1.36]
Citronellic acid	9.03	1331	0.10	15.85*	2223	0.07
α-Cubebene	9.26	1347	0.22	6.62	1419	0.20
Phenylethyl propionate	9.30	1350	0.02	11.80	1837	0.07
Citronellyl acetate	9.39	1357	0.28	9.29*	1625	[0.85]
α-Ylangene	9.54†	1367	0.23	6.88	1438	0.06
Geranic acid	9.56†	1369	[0.23]	16.67	2309	0.04
α-Copaene	9.60	1372	0.48	6.98	1446	0.49
β-Bourbonene	9.71*	1379	1.08	7.31	1471	1.02
1,5-diepi-β-Bourbonene	9.71*	1379	[1.08]	7.20	1462	0.09
Geranyl acetate	9.81	1386	0.35	10.38	1714	0.43
Phenylethyl isobutyrate	9.85	1389	0.07	11.78	1834	0.08
Isocaryophyllene	10.01	1400	0.02	7.97*	1521	[0.22]
β-Caryophyllene	10.18	1412	1.18	8.24	1542	1.16
β-Copaene	10.32	1423	0.13	8.18	1537	0.17
Heptyl tiglate	10.43	1432	0.06			
Aromadendrene	10.46	1434	0.03	8.39*	1554	[0.09]
6,9-Guaiadiene	10.53*	1439	0.42	8.45*	1558	[0.34]
Isogermacrene D	10.53*	1439	[0.42]	8.73*	1580	[6.84]
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	10.59	1443	0.44	8.61	1571	0.40
Citronellyl propionate	10.63*	1446	0.62	10.07	1688	0.36
α-Humulene	10.63*	1446	[0.62]	9.10	1610	0.27
allo-Aromadendrene	10.72	1454	0.20	8.83	1587	0.30

<i>trans</i> -Cadina-1(6),4-diene	10.93	1469	0.19	9.07*	1607	[0.14]
$\gamma$ -Muurolene	10.98	1472	0.12	9.40	1634	0.35
Germacrene D	11.01*†	1475	1.78	9.60*	1650	[1.36]
$\alpha$ -Amorphene	11.01*†	1475	[1.78]	9.47*	1639	0.21
Geranyl propionate	11.04†	1477	[1.78]	11.13	1778	0.63
$\beta$ -Selinene	11.07	1479	0.13	9.68*	1656	0.20
$\gamma$ -Amorphene	11.14*	1484	0.09	9.68*	1656	[0.20]
Phenylethyl isovalerate	11.14*	1484	[0.09]	12.91	1937	0.03
Viridiflorene	11.21*	1490	0.57	9.47*	1639	[0.21]
Bicyclogermacrene	11.21*	1490	[0.57]	9.87*	1672	0.47
$\alpha$ -Selinene	11.21*	1490	[0.57]	9.80	1666	0.21
4-epi- <i>cis</i> -Dihydroagarofuran	11.27	1494	0.06	9.72*†	1660	[2.91]
$\alpha$ -Muurolene	11.30	1496	0.25	9.87*	1672	[0.47]
$\gamma$ -Cadinene	11.46	1508	0.41	10.21*	1699	0.42
Geranyl isobutyrate	11.57	1518	0.30	11.06	1772	0.37
Zonarene	11.60*	1520	1.02	10.21*	1699	[0.42]
$\delta$ -Cadinene	11.60*	1520	[1.02]	10.24	1702	0.89
<i>trans</i> -Calamenene	11.60*	1520	[1.02]	11.09	1774	0.10
<i>trans</i> -Cadina-1,4-diene	11.70	1527	0.15	10.48	1722	0.14
Citronellyl butyrate	11.74†	1530	0.56	10.96	1764	0.49
Phenylethyl angelate?	11.76†	1532	[0.56]	14.02	2041	0.05
$\alpha$ -Agarofuran	11.80	1536	0.35	11.59	1818	0.32
1-nor-Bourbonanone	12.07	1556	0.01	13.26	1969	0.02
Geranyl butyrate	12.15	1563	0.82	11.99	1853	0.85
Spathulenol	12.25	1570	0.23	14.23*	2061	1.49
Caryophyllene oxide	12.29*	1574	0.20	12.57	1906	0.14
Caryophyllene oxide isomer	12.29*	1574	[0.20]	12.51	1900	0.02
Globulol	12.32	1577	0.08	13.71	2011	0.07
Phenylethyl tiglate	12.40*	1582	0.86	14.83	2120	0.88
Viridiflorol	12.40*	1582	[0.86]	13.84	2024	0.06
Geranyl 2-methylbutyrate?	12.62	1600	0.09	12.05*	1859	0.19
Geranyl isovalerate	12.67	1604	0.08	12.05*	1859	[0.19]
10-epi- $\gamma$ -Eudesmol	12.77	1612	5.01	13.94	2033	4.75
1-epi-Cubenol	12.89	1622	0.15	13.60*	2001	0.32
$\gamma$ -Eudesmol	12.93	1626	0.21	14.72*	2109	0.21
Citronellyl valerate?	12.97	1629	0.20	12.10	1863	0.04
Agarospirol?	13.01	1632	0.07	14.96*	2133	0.13
Jinkoh-eremol	13.07*	1637	0.60	15.00	2137	0.10
Cubenol	13.07*	1637	[0.60]	13.51	1992	0.23
$\tau$ -Cadinol	13.07*	1637	[0.60]	14.72*	2109	[0.21]
$\beta$ -Eudesmol	13.13	1642	0.30	15.20	2157	0.26
$\alpha$ -Eudesmol	13.18	1646	0.32	15.15*	2152	0.27
$\alpha$ -Cadinol	13.21	1649	0.13	15.26	2163	0.32
<i>cis</i> -Calamenen-10-ol	13.25	1652	0.05	16.25	2264	0.06

Geranyl valerate	13.33*	1658	0.19	13.05	1949	0.16
<i>trans</i> -Calamenen-10-ol	13.33*	1658	[0.19]	16.61	2302	0.05
Citronellyl tiglate	13.43	1667	0.36	13.19	1962	0.35
Citronellyl 4-methylvalerate	13.67	1686	0.11			
Geranyl tiglate	13.85*	1702	1.22	14.23*	2061	[1.49]
3β,4β-Oxidoagarofuran?	13.85*	1702	[1.22]	15.85*	2223	[0.07]
Geranyl 4-methylvalerate?	14.05	1719	0.18	13.60*	2001	[0.32]
Citronellyl caproate	14.09	1722	0.06	13.11	1955	0.04
Geranyl caproate	14.47	1755	0.10	14.08	2047	0.10
Citronellyl heptanoate	15.19	1819	0.07			
Phytone	15.50	1846	0.03	14.54	2091	0.06
Geranyl heptanoate	15.57	1853	0.12	15.09	2146	0.35
Unknown [m/z 69, 81 (44), 41 (28), 95 (26), 93 (26), 71 (24)...]	16.22	1913	0.03	14.96*	2133	[0.13]
Citronellyl caprylate	16.26	1916	0.04	15.15*	2152	[0.27]
Geranyl caprylate	16.62	1950	0.05	15.73	2210	0.03
Unknown [m/z 69, 83 (59), 81 (56), 137 (48), 41 (29), 139 (28)...]	23.52	2712	0.05	21.54	2879	0.03
<b>Total identified</b>	<b>96.12%</b>			<b>95.76%</b>		
<b>Total reported</b>	<b>96.84%</b>			<b>96.39%</b>		

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

t: 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