Date : August 30, 2021

Certificate of Analysis – GC Profiling

Sample identification

Internal code : 21H17-ORA09
Customer identification : Sweet Ginger - Sri Lanka - 3 years - OIL-SINGLE-13
Type : Essential oil
Source : *Zingiber officinale*
Customer : Organic Aromas Inc.

Analysis

Method: PC-MAT-014 ISO - 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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia
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PHYSICOCHEMICAL DATA

Physical aspect: Yellow liquid
Refractive index: 1.4895 ± 0.0003 (20 °C; method PC-MAT-016)

CONCLUSION

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

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Analysis summary – Consolidated contents

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

Identification	%	Class
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Toluene	0.01	Simple phenolic
Hexanal	0.32	Aliphatic aldehyde
2-Heptanol	0.01	Aliphatic alcohol
Tricyclene	0.15	Monoterpene
α-Thujene	0.01	Monoterpene
α-Pinene	2.08	Monoterpene
Camphene	7.01	Monoterpene
α-Fenchene	0.01	Monoterpene
Thuja-2,4(10)-diene	tr	Monoterpene
Unknown	0.01	Monoterpene
Sabinene	0.07	Monoterpene
β-Pinene	0.27	Monoterpene
6-Methyl-5-hepten-2-one	0.62	Aliphatic ketone
Myrcene	0.79	Monoterpene
6-Methyl-5-hepten-2-ol	0.01	Aliphatic alcohol
α-Phellandrene	0.19	Monoterpene
Pseudolimonene	0.03	Monoterpene
Octanal	0.14	Aliphatic aldehyde
Δ3-Carene	0.04	Monoterpene
α-Terpinene	0.01	Monoterpene
para-Cymene	0.06	Monoterpene
1,8-Cineole	2.79	Monoterpenic ether
Limonene	1.17	Monoterpene
β-Phellandrene	3.48	Monoterpene
2-Heptyl acetate	0.01	Aliphatic ester
2,6-Dimethyl-5-heptenal (melonal)	0.01	Aliphatic aldehyde
γ-Terpinene	0.03	Monoterpene
cis-Sabinene hydrate	0.01	Monoterpenic alcohol
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Octanol	0.01	Aliphatic alcohol
para-Cymenene	0.01	Monoterpene
Terpinolene	0.17	Monoterpene
Unknown	0.13	Oxygenated monoterpene
Rosefuran	0.13	Monoterpenic ether
Linalool	0.23	Monoterpenic alcohol
2-Nonanol	0.04	Aliphatic alcohol
endo-Fenchol	0.01	Monoterpenic alcohol
Bornyl methyl ether	0.03	Monoterpenic ether
trans-Pinene hydrate	0.01	Monoterpenic alcohol
(*E*)-4,8-Dimethylnona-1,3,7-triene	0.04	Terpene derivative
cis-para-Menth-2-en-1-ol	tr	Monoterpenic alcohol
trans-para-Menth-2-en-1-ol	0.01	Monoterpenic alcohol
Camphor	0.08	Monoterpenic ketone

Camphene hydrate	0.06	Monoterpenic alcohol
exo-Isocitral	0.01	Monoterpenic aldehyde
Isoborneol	0.02	Monoterpenic alcohol
Citronellal	0.05	Monoterpenic aldehyde
Borneol	0.77	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
Isoneral	0.03	Monoterpenic aldehyde
Rosefuran oxide	0.08	Monoterpenic ether
Terpinen-4-ol	0.12	Monoterpenic alcohol
para-Cymen-8-ol	0.02	Monoterpenic alcohol
α-Terpineol	0.45	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
Decanal	0.17	Aliphatic aldehyde
Nerol	0.02	Monoterpenic alcohol
Citronellol	0.14	Monoterpenic alcohol
Neral	0.08	Monoterpenic aldehyde
Unknown	0.06	Oxygenated monoterpene
Geraniol	0.31	Monoterpenic alcohol
Geranial	0.11	Monoterpenic aldehyde
Citronellyl formate	0.01	Monoterpenic ester
Bornyl acetate	0.10	Monoterpenic ester
2-Undecanone	0.19	Aliphatic ketone
Geranyl formate	0.02	Monoterpenic ester
Carvacrol	0.03	Monoterpenic alcohol
δ-Elemene	0.12	Sesquiterpene
α-Cubebene	0.04	Sesquiterpene
Citronellyl acetate	0.06	Monoterpenic ester
8-Hydroxy-iso-menthol	tr	Monoterpenic alcohol
Cyclosativene I	0.19	Sesquiterpene
Unknown	0.06	Unknown
Cyclosativene II	0.01	Sesquiterpene
Neryl acetate	0.02	Monoterpenic ester
α-Copaene	0.46	Sesquiterpene
Unknown	0.12	Unknown
Unknown	0.01	Unknown
cis-β-Elemene	0.05	Sesquiterpene
Geranyl acetate	0.58	Monoterpenic ester
β-Cubebene	0.05	Sesquiterpene
β-Elemene	0.79	Sesquiterpene
γ-4-Dimethylbenzenebutyral	0.01	Simple phenolic
Sesquithujene	0.27	Sesquiterpene
β-Caryophyllene	0.10	Sesquiterpene
β-Copaene	0.05	Sesquiterpene
γ-Elemene	0.22	Sesquiterpene
trans-α-Bergamotene	0.03	Sesquiterpene
(*Z*)-β-Farnesene?	0.10	Sesquiterpene
Sesquisabinene A	0.01	Sesquiterpene
Unknown	0.05	Sesquiterpene
Unknown	0.09	Sesquiterpene
α-Humulene	0.05	Sesquiterpene
allo-Aromadendrene	0.29	Sesquiterpene
Sesquisabinene B	0.30	Sesquiterpene

(*E*)-β-Farnesene	0.39	Sesquiterpene
Selina-4,11-diene	0.19	Sesquiterpene
γ-Muurolene	0.15	Sesquiterpene
Germacrene D	1.19	Sesquiterpene
γ-Curcumene	0.27	Sesquiterpene
β-Selinene	0.03	Sesquiterpene
δ-Selinene	0.06	Sesquiterpene
ar-Curcumene	7.00	Sesquiterpene
Unknown	1.07	Sesquiterpene
Bicyclosesquiphellandrene?	2.17	Sesquiterpene
α-Zingiberene	30.04	Sesquiterpene
α-Muurolene	0.12	Sesquiterpene
Cubebol	0.06	Sesquiterpenic alcohol
γ-Cadinene	0.14	Sesquiterpene
β-Bisabolene	6.51	Sesquiterpene
(3*E*,6*E*)-α-Farnesene	3.88	Sesquiterpene
trans-Calamenene	0.06	Sesquiterpene
δ-Cadinene	0.30	Sesquiterpene
β-Sesquiphellandrene	12.24	Sesquiterpene
(*E*)-γ-Bisabolene	0.49	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.10	Oxygenated sesquiterpene
α-Elemol	0.36	Sesquiterpenic alcohol
Germacrene B	0.44	Sesquiterpene
cis-Sesquisabinene hydrate	0.14	Sesquiterpenic alcohol
(*E*)-Nerolidol	0.40	Sesquiterpenic alcohol
ar-Turmerol	0.05	Sesquiterpenic alcohol
trans-Sesquisabinene hydrate	0.14	Sesquiterpenic alcohol
Unknown	tr	Oxygenated sesquiterpene
Unknown	0.06	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
10-epi-γ-Eudesmol	0.06	Sesquiterpenic alcohol
cis-Zingiberenol	0.32	Sesquiterpenic alcohol
Unknown	0.06	Oxygenated sesquiterpene
γ-Eudesmol	0.04	Sesquiterpenic alcohol
trans-Zingiberenol	0.15	Sesquiterpenic alcohol
β-Eudesmol	0.03	Sesquiterpenic alcohol
Zingerone	0.14	Phenylbutanoid
α-Eudesmol	0.11	Sesquiterpenic alcohol
(3*E*,5*E*)-7-Hydroxyfarnesene	0.02	Sesquiterpenic alcohol
epi-β-Bisabolol	0.02	Sesquiterpenic alcohol
β-Bisabolol	0.09	Sesquiterpenic alcohol
(*Z*)-α-Santalol	0.01	Sesquiterpenic alcohol
Zingerone methyl ether	0.02	Simple phenolic
4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	0.07	Norsesquiterpenic ketone
Unknown	0.18	Oxygenated sesquiterpene
Unknown	0.22	Oxygenated sesquiterpene
(*Z*)-epi-β-Santalol	0.03	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Oplopanone	0.02	Sesquiterpenic alcohol
Xanthorizzhol?	0.01	Sesquiterpenic alcohol
Unknown	0.02	Oxygenated sesquiterpene

Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.13	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Geranyl-para-cymene	0.03	Diterpene
Unknown	0.01	Unknown
Consolidated total	**97.36%**	

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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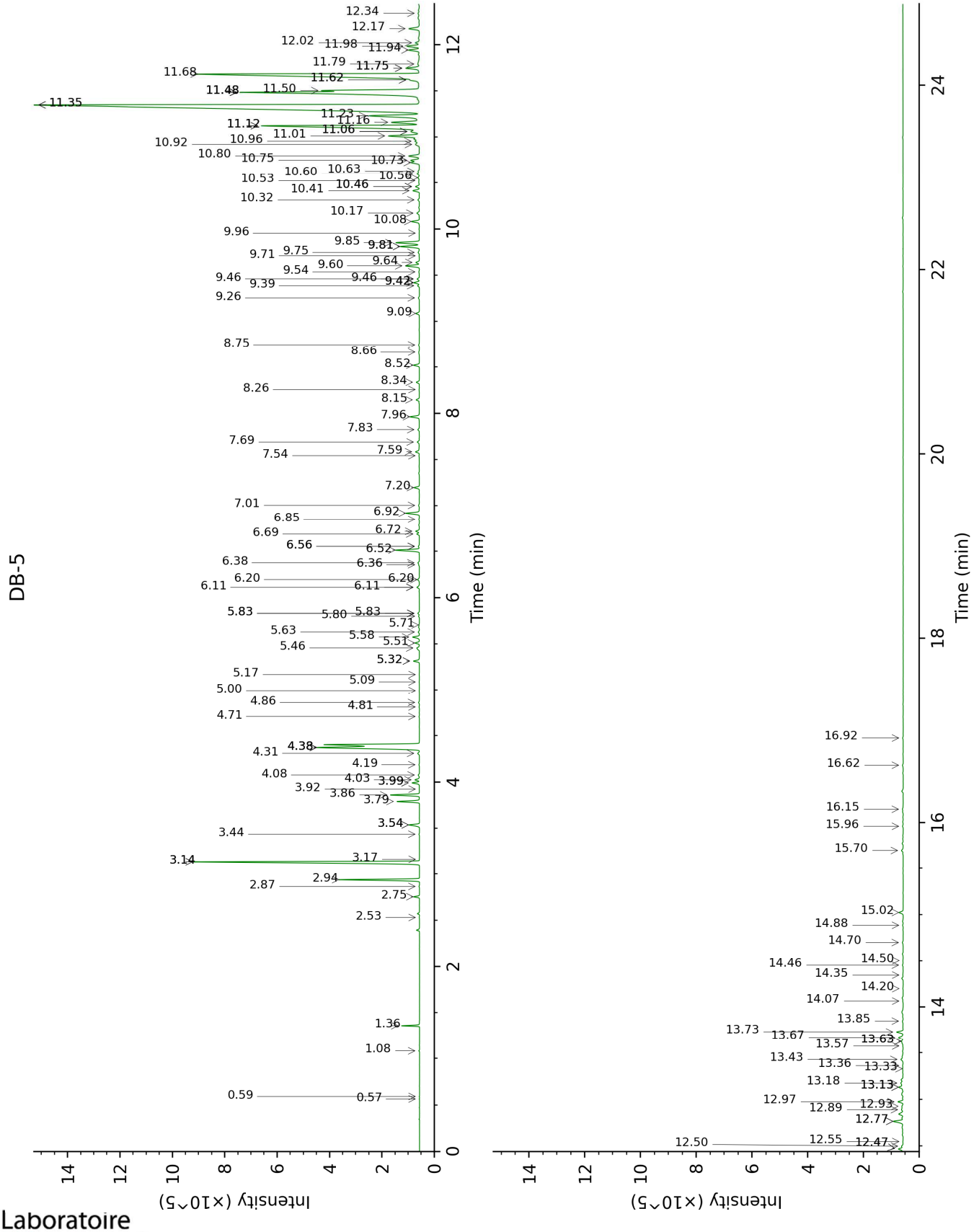
DB-5
Intensity (×10^5)
Time (min)
12.34
12.17
12.02
11.98
11.94
11.79
11.75
11.68
11.62
11.48
11.50
11.35
11.23
11.16
11.12
11.06
11.01
10.96
10.92
10.80
10.75
10.73
10.63
10.60
10.56
10.53
10.46
10.41
10.32
10.17
10.08
9.96
9.85
9.81
9.75
9.71
9.64
9.60
9.54
9.46
9.42
9.39
9.26
9.09
8.75
8.66
8.52
8.34
8.26
8.15
7.96
7.83
7.69
7.59
7.54
7.20
7.01
6.92
6.85
6.72
6.69
6.56
6.52
6.38
6.36
6.20
6.11
5.83
5.80
5.71
5.63
5.58
5.51
5.46
5.32
5.17
5.09
5.00
4.86
4.81
4.71
4.38
4.31
4.19
4.08
4.03
3.99
3.92
3.86
3.79
3.54
3.44
3.17
3.14
2.94
2.87
2.75
2.53
1.36
1.08
0.59
0.57
16.92
16.62
16.15
15.96
15.70
15.02
14.88
14.70
14.50
14.46
14.35
14.20
14.07
13.85
13.73
13.67
13.63
13.57
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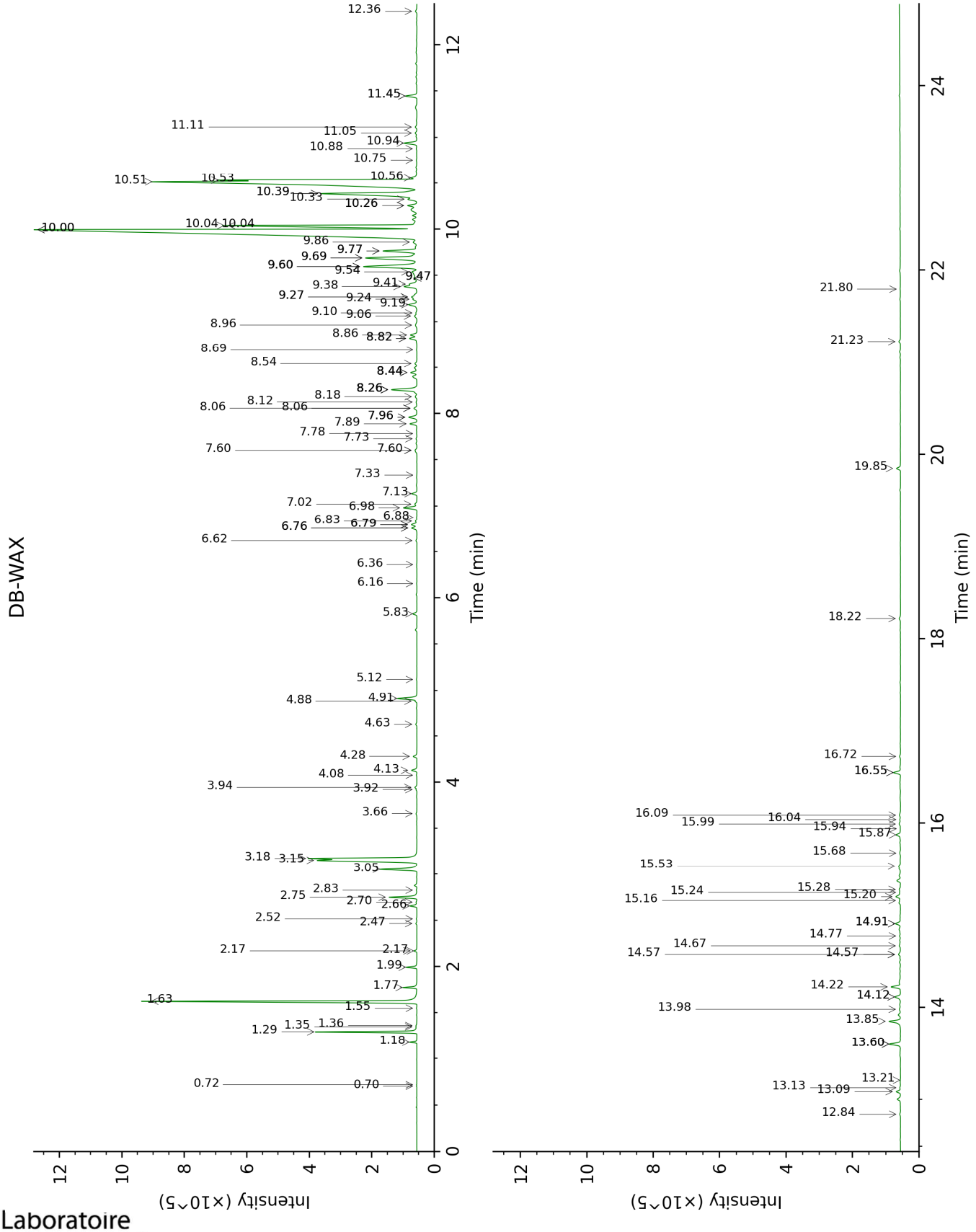
12.93
12.89
12.77
12.55
12.50
12.47


DB-WAX
Time (min)
Intensity (×10^5)
12.36
11.45
11.11
11.05
10.88
10.94
10.75
10.51
10.53
10.56
10.39
10.33
10.26
10.00
10.04
10.04
9.86
9.77
9.69
9.60
9.54
9.47
9.38
9.41
9.27
9.24
9.19
9.10
9.06
8.96
8.86
8.82
8.69
8.54
8.44
8.26
8.18
8.12
8.06
8.06
7.96
7.89
7.78
7.73
7.60
7.60
7.33
7.13
7.02
6.98
6.88
6.83
6.79
6.76
6.62
6.36
6.16
5.83
5.12
4.88
4.91
4.63
4.28
4.08
4.13
3.94
3.92
3.66
3.18
3.15
3.05
2.83
2.75
2.70
2.66
2.52
2.47
2.17
2.17
1.99
1.77
1.63
1.55
1.29
1.35
1.36
1.18
0.72
0.70
21.80
21.23
19.85
18.22
16.72
16.55
16.09
15.99
16.04
15.94
15.87
15.68
15.53
15.24
15.28
15.16
15.20
14.91
14.77
14.67
14.57
14.57
14.22
14.12
13.98
13.85
13.60
13.21
13.13
13.09
12.84

FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Isovaleral	0.57	642	tr	0.72	886	tr
2-Methylbutyral	0.59	652	tr	0.70	880	tr
Toluene	1.08	758	0.01	1.36	1001	0.03
Hexanal	1.36	800	0.32	1.77	1043	0.35
2-Heptanol	2.53	903	0.01	4.88	1298	0.04
Tricyclene	2.75	918	0.15	1.18	971	0.14
α-Thujene	2.87	926	0.01	1.35	1000	0.02
α-Pinene	2.94	931	2.08	1.29	992	2.08
Camphene	3.14*	944	6.95	1.63	1028	7.01
α-Fenchene	3.14*	944	[6.95]	1.55	1020	0.01
Thuja-2,4(10)-diene	3.17	946	tr	2.17*	1083	0.08
Unknown [m/z 91, 119 (60), 77 (36), 92 (31), 93 (31)... 134 (23)]	3.44	964	0.01	2.52	1114	0.02
Sabinene	3.54*	971	0.35	2.17*	1083	[0.08]
β-Pinene	3.54*	971	[0.35]	1.99	1065	0.27
6-Methyl-5-hepten-2-one	3.79	988	0.62	4.91	1300	0.65
Myrcene	3.86	993	0.79	2.75	1133	0.77
6-Methyl-5-hepten-2-ol	3.92	998	0.01	6.79*	1432	0.20
α-Phellandrene	3.99*	1002	0.22	2.66	1125	0.19
Pseudolimonene	3.99*	1002	[0.22]	2.70	1129	0.03
Octanal	4.03	1004	0.14	4.28	1253	0.12
Δ3-Carene	4.08	1008	0.04	2.47	1110	0.03
α-Terpinene	4.19	1014	0.01	2.83	1139	0.02
para-Cymene	4.31	1022	0.06	3.94	1228	0.07
1,8-Cineole	4.38*†	1026	7.39	3.18	1167	2.79
Limonene	4.38*†	1026	[7.39]	3.05	1158	1.17
β-Phellandrene	4.38*†	1026	[7.39]	3.16	1166	3.48
2-Heptyl acetate	4.71	1048	0.01	4.08	1237	0.02
2,6-Dimethyl-5-heptenal (melonal)	4.81	1054	0.01	5.12	1310	0.02
γ-Terpinene	4.86	1057	0.03	3.66	1206	0.03
cis-Sabinene hydrate	5.00	1066	0.01	6.76*	1429	0.20
cis-Linalool oxide (fur.)	5.09	1072	0.01	6.36	1400	0.01
Octanol	5.17	1077	0.01	8.06*	1528	0.11
para-Cymenene	5.32*	1086	0.20	6.16	1385	0.01
Terpinolene	5.32*	1086	[0.20]	4.13	1241	0.17
Unknown [m/z 96, 109 (55), 79 (41), 67 (38), 41 (36)... 150 (3)]	5.46	1095	0.13	8.54	1565	0.07
Rosefuran	5.51	1098	0.13	5.83	1361	0.13
Linalool	5.58	1102	0.23	7.89	1515	0.21
2-Nonanol	5.63	1106	0.04	7.60*	1492	0.09
endo-Fenchol	5.71	1111	0.01	8.26*	1543	1.00
Bornyl methyl ether	5.80	1117	0.03	3.92	1226	0.02
trans-Pinene hydrate	5.83*	1119	0.05	7.78	1506	0.01
(*E*)-4,8-Dimethylnona-1,3,7-triene	5.83*	1119	[0.05]	4.63	1279	0.04

cis-para-Menth-2-en-1-ol	5.83*	1119	[0.05]	7.96*	1520	0.29
trans-para-Menth-2-en-1-ol	6.11*	1137	0.09	8.82*	1587	0.26
Camphor	6.11*	1137	[0.09]	7.02	1449	0.08
Camphene hydrate	6.20*	1142	0.07	8.26*	1543	[1.00]
exo-Isocitral	6.20*	1142	[0.07]	7.34	1472	0.01
Isoborneol	6.36	1152	0.02	9.24	1621	0.13
Citronellal	6.38	1154	0.05	6.83	1435	0.05
Borneol	6.52	1163	0.77	9.60*	1650	2.31
Unknown [m/z 109, 79 (18), 81 (15), 91 (12), 77 (10)... 152 (3)]	6.56*	1165	0.04			
Isoneral	6.56*	1165	[0.04]	7.73	1502	0.03
Rosefuran oxide	6.69	1174	0.08	8.44*	1558	0.21
Terpinen-4-ol	6.72	1176	0.12	8.44*	1558	[0.21]
para-Cymen-8-ol	6.85	1184	0.02	11.45*	1805	0.38
α-Terpineol	6.92	1189	0.45	9.60*	1650	[2.31]
Myrtenol	7.01	1194	0.03	10.75	1746	0.01
Decanal	7.20	1207	0.17	7.14	1458	0.17
Nerol	7.54	1230	0.02	10.88	1756	0.02
Citronellol	7.59	1233	0.14	10.56	1729	0.17
Neral	7.69	1240	0.08	9.38†	1632	0.72
Unknown [m/z 109, 119 (84), 91 (81), 134 (55)... 137 (27)...]	7.82	1249	0.06	11.11	1776	0.06
Geraniol	7.96	1258	0.31	11.45*	1805	[0.38]
Geranial	8.15	1270	0.11	10.00*	1682	30.15
Citronellyl formate	8.26	1278	0.01	8.69	1577	0.01
Bornyl acetate	8.34	1283	0.10	8.06*	1528	[0.11]
2-Undecanone	8.52	1296	0.19	8.44*	1558	[0.21]
Geranyl formate	8.66	1305	0.02	9.77*	1663	1.18
Carvacrol	8.75	1311	0.03	15.20	2157	0.19
δ-Elemene	9.09	1335	0.12	6.79*	1432	[0.20]
α-Cubebene	9.26	1347	0.04	6.62	1419	0.03
Citronellyl acetate	9.39	1356	0.06	9.27*	1623	0.26
8-Hydroxy-iso-menthol	9.42*	1359	0.19	14.91*	2128	0.19
Cyclosativene I	9.42*	1359	[0.19]	6.76*	1429	[0.20]
Unknown [m/z 95, 110 (87), 43 (58), 139 (52)...]	9.46*	1362	0.08			
Cyclosativene II	9.46*	1362	[0.08]	6.88	1438	0.01
Neryl acetate	9.54	1367	0.02	10.04*	1686	6.53
α-Copaene	9.60	1372	0.46	6.98	1446	0.46
Unknown [m/z 81, 59 (94), 41 (74), 85 (40), 43 (55)...]	9.64	1374	0.12	13.21	1964	0.01
Unknown [m/z 139, 69 (63), 83 (53), 43 (49), 41 (39)...]	9.71	1379	0.01	15.94	2232	0.01
cis-β-Elemene	9.75	1382	0.05	8.12	1533	0.03
Geranyl acetate	9.81*	1386	0.64	10.39*	1715	4.47
β-Cubebene	9.81*	1386	[0.64]	7.60*	1492	[0.09]
β-Elemene	9.85	1389	0.79	8.26*	1543	[1.00]
γ-4-Dimethylbenzenebutyral	9.96	1396	0.01			
Sesquithujene	10.08	1406	0.27	7.96*	1520	[0.29]

β-Caryophyllene	10.17	1412	0.10	8.26*	1543	[1.00]
β-Copaene	10.32	1423	0.05	8.18	1537	0.06
γ-Elemene	10.42	1430	0.22	8.86	1590	0.23
trans-α-Bergamotene	10.46*	1434	0.13	8.26*	1543	[1.00]
(*Z*)-β-Farnesene?	10.46*	1434	[0.13]	9.06	1606	0.10
Sesquisabinene A	10.52	1439	0.01	8.96	1598	0.08
Unknown [m/z 139, 69 (60), 41 (51), 43 (47), 119 (41)... 204 (1)]	10.56	1441	0.05			
Unknown [m/z 139, 69 (43), 91 (42), 41 (36), 81 (36), 43 (36)... 204 (5)]	10.60	1444	0.09	14.12*	2050	0.23
α-Humulene	10.63	1446	0.05	9.10	1609	0.04
allo-Aromadendrene	10.73	1454	0.29	8.82*	1587	[0.26]
Sesquisabinene B	10.75	1455	0.30	9.19	1616	0.33
(*E*)-β-Farnesene	10.80	1459	0.39	9.41†	1634	[0.72]
Selina-4,11-diene	10.92	1468	0.19	9.27*	1623	[0.26]
γ-Muurolene	10.96	1471	0.15	9.47*	1640	0.13
Germacrene D	11.01	1475	1.19	9.60*	1650	[2.31]
γ-Curcumene	11.06*	1479	0.38	9.54	1645	0.27
β-Selinene	11.06*	1479	[0.38]	9.69*	1657	2.19
δ-Selinene	11.12*	1483	7.06	9.47*	1640	[0.13]
ar-Curcumene	11.12*	1483	[7.06]	10.51†	1726	19.24
Unknown [m/z 161, 91 (100), 105 (93), 79 (89), 93 (89), 107 (79)... 204 (34)]	11.16	1486	1.07	9.77*	1663	[1.18]
Bicyclosesquiphellandrene?	11.23	1491	2.17	9.69*	1657	[2.19]
α-Zingiberene	11.35*	1500	30.38	10.00*	1682	[30.15]
α-Muurolene	11.35*	1500	[30.38]	9.86	1671	0.12
Cubebol	11.48*†	1510	10.94	12.36	1886	0.06
γ-Cadinene	11.48*†	1510	[10.94]	10.26*†	1704	0.63
β-Bisabolene	11.48*†	1510	[10.94]	10.04*	1686	[6.53]
(3*E*,6*E*)-α-Farnesene	11.50†	1512	[10.94]	10.39*	1715	[4.47]
trans-Calamenene	11.62*	1521	0.28	11.05	1771	0.06
δ-Cadinene	11.62*	1521	[0.28]	10.33	1710	0.30
β-Sesquiphellandrene	11.68	1526	12.24	10.53†	1727	[19.24]
(*E*)-γ-Bisabolene	11.75*	1531	0.51	10.26*†	1704	[0.63]
Unknown [m/z 177, 159 (67), 41 (43), 91 (43), 43 (41)... 220 (t)]	11.75*	1531	[0.51]	13.13	1957	0.02
Unknown [m/z 43, 177 (99), 93 (75), 41 (73), 91 (65), 107 (60)... 220 (4)]	11.79	1535	0.10	12.84	1930	0.03
α-Elemol	11.94	1546	0.36	13.85	2025	0.47
Germacrene B	11.98	1550	0.44	10.94	1762	0.43
cis-Sesquisabinene hydrate	12.02	1553	0.14	13.09	1953	0.14
(*E*)-Nerolidol	12.17	1565	0.40	13.60*	2000	0.38
ar-Turmerol	12.34	1578	0.05	15.28	2165	0.05
trans-Sesquisabinene hydrate	12.47*	1588	0.19	14.12*	2050	[0.23]

Unknown [m/z 159, 43 (69), 202 (61), 91 (49), 41 (46), 79 (37)... 220 (t)]	12.47*	1588	[0.19]	14.57*	2094	0.09
Unknown [m/z 132, 118 (89), 145 (85), 119 (79), 117 (60)...]	12.50	1590	0.06	13.60*	2000	[0.38]
Unknown [m/z 132, 118 (82), 145 (76), 119 (69), 117 (56), 91 (43), 135 (42)...]	12.55	1594	0.01	13.60*	2000	[0.38]
10-epi-γ-Eudesmol	12.76*	1612	0.38	13.98	2037	0.06
cis-Zingiberenol	12.76*	1612	[0.38]	14.22	2061	0.32
Unknown [m/z 119, 85 (92), 105 (37), 120 (36), 91 (28)... 218 (6)]	12.89	1622	0.06	16.04	2243	0.03
γ-Eudesmol	12.93	1625	0.04	14.77	2114	0.03
trans-Zingiberenol	12.98	1629	0.15	14.91*	2128	[0.19]
β-Eudesmol	13.13*	1642	0.17	15.24	2161	0.03
Zingerone	13.13*	1642	[0.17]			
α-Eudesmol	13.18	1646	0.11	15.16	2153	0.03
(3*E*,5*E*)-7-Hydroxyfarnesene	13.33	1658	0.02	16.09	2248	0.05
epi-β-Bisabolol	13.36	1661	0.02	14.67	2104	0.04
β-Bisabolol	13.43	1667	0.09	14.57*	2094	[0.09]
(*Z*)-α-Santalol	13.58	1679	0.01	16.55*	2296	0.25
Zingerone methyl ether	13.63*	1683	0.09			
4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	13.63*	1683	[0.09]	15.53	2190	0.07
Unknown [m/z 137, 119 (70), 84 (69), 41 (68), 69 (53), 55 (45), 109 (38)... 222 (2)]	13.67	1686	0.18	15.87	2226	0.18
Unknown [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31)... 234? (t)]	13.73	1692	0.22	16.55*	2296	[0.25]
(*Z*)-epi-β-Santalol	13.85	1701	0.03			
Unknown [m/z 119, 91 (31), 105 (29), 41 (25), 133 (23), 158 (21)...]	14.07	1720	0.01	16.72	2314	0.04
Oplopanone	14.20	1732	0.02			
Xanthorizzhol?	14.35	1744	0.01			
Unknown [m/z 82, 43 (85), 91 (67), 93 (66), 41 (66), 69 (59), 106 (47)... 218 (5)...]	14.46	1754	0.02			
Unknown [m/z 43, 82 (100), 41 (86), 69 (76), 93 (72), 91 (72)... 218 (4)...]	14.50	1758	0.01			
Unknown [m/z 151, 41 (78), 95 (71), 109 (59), 55 (56), 69 (55)... 234 (15)]	14.70	1775	0.02			
Unknown [m/z 69, 41 (96), 43 (90), 109 (51), 55 (42), 81 (33)...]	14.88	1791	0.02	18.22	2479	0.05

Unknown [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2)...]	15.02	1803	0.13	19.85	2669	0.13
Unknown [m/z 43, 109 (77), 69 (65), 41 (60), 55 (51), 95 (44), 135 (43)... 207 (19)...]	15.70	1865	0.07			
Unknown [m/z 125, 41 (88), 109 (76), 69 (76), 151 (68), 55 (45), 95 (36)... 236 (21)]	15.96	1889	0.03	21.23	2840	0.06
Unknown [m/z 125, 41 (86), 151 (78), 109 (67), 69 (63)... 236 (22)]	16.15	1905	0.03	21.80	2913	0.01
Geranyl-para-cymene	16.62	1951	0.03	15.99	2238	0.06
Unknown [m/z 119, 69 (93), 132 (53), 105 (40), 41 (34), 93 (32)...]	16.92	1979	0.01	15.68	2205	0.02
Total identified		**95.36%**			**96.51%**	
Total reported		**97.88%**			**97.24%**	

*: 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