Date : 2023-07-05

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 23F27-PTH03
Customer Identification : Organic Lemongrass - India - L90112R
Type : Essential Oil
Source : *Cymbopogon flexuosus*
Customer : Plant Therapy

Checked an approved by:

Alexis St-Gelais, Ph. D., 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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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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Gas Chromatographic Analysis

Method : PC-MAT-014 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID
ISO
Results : See analysis summary (next page)
Analyst : Amélie Simard, Analyste
Date : 2023-07-04

Physicochemical data

Physical aspect : Yellow liquid
Analyst : Cindy Caron B. Sc.
Date : 2023-06-28

Refractive index : 1.4852 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2023-06-28

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
Isobutyral	tr	Aliphatic aldehyde
2-Methyl-3-buten-2-ol	0.03	Aliphatic alcohol
Isovaleral	0.01	Aliphatic aldehyde
2-Methylbutyral	0.01	Aliphatic aldehyde
2-Ethylfuran	tr	Furan
Isoamyl alcohol	0.01	Aliphatic alcohol
2-Methylbutanol	tr	Aliphatic alcohol
Toluene	0.01	Simple phenolic
Hexanal	0.01	Aliphatic aldehyde
Unknown	0.01	Unknown
(2*E*)-Hexenal	0.01	Aliphatic aldehyde
(3*Z*)-Hexenol	0.01	Aliphatic alcohol
4-Heptanone	0.02	Aliphatic ketone
Hexanol	0.01	Aliphatic alcohol
Unknown	0.01	Unknown
(*E*)-2,4-Dimethyl-2,4-heptadiene	0.01	Alkene
Tricyclene	0.14	Monoterpene
α-Pinene	0.21	Monoterpene
Camphene	1.21	Monoterpene
Sabinene	0.01	Monoterpene
β-Pinene	0.01	Monoterpene
6-Methyl-5-hepten-2-one	1.42	Aliphatic ketone
Dehydro-1,8-cineole	0.06	Monoterpenic ether
Myrcene	0.07	Monoterpene
6-Methyl-5-hepten-2-ol	0.08	Aliphatic alcohol
Octanal	0.08	Aliphatic aldehyde
α-Phellandrene	0.01	Monoterpene
Δ3-Carene	0.02	Monoterpene
α-Terpinene	0.01	Monoterpene
p-Menthatriene	0.01	Monoterpene
para-Cymene	0.02	Monoterpene
β-Phellandrene	0.03	Monoterpene
Limonene	0.29	Monoterpene
Benzeneacetaldehyde	0.01	Simple phenolic
(*Z*)-β-Ocimene	0.29	Monoterpene
(*E*)-β-Ocimene	0.20	Monoterpene
2,6-Dimethyl-5-heptenal (melonal)	0.03	Aliphatic aldehyde
cis-Sabinene hydrate	0.01	Monoterpenic alcohol
cis-Linalool oxide (fur.)	0.02	Monoterpenic alcohol
4-Nonanone	1.05	Aliphatic ketone

Camphenilone	0.01	Normonoterpenic ketone
trans-Linalool oxide (fur.)	0.03	Monoterpenic alcohol
Terpinolene	0.05	Monoterpene
4-Nonanol	0.04	Aliphatic alcohol
Rosefuran	0.23	Monoterpenic ether
Linalool	1.17	Monoterpenic alcohol
(*Z*)-6-Methyl-3,5-heptadien-2-one	0.04	Aliphatic ketone
trans-para-Mentha-2,8-dien-1-ol	0.01	Monoterpenic alcohol
Unknown	0.09	Unknown
Unknown	0.21	Unknown
Unknown	0.03	Unknown
Unknown	0.02	Unknown
exo-Isocitral	0.06	Monoterpenic aldehyde
trans-Chrysanthemal	0.36	Monoterpenic aldehyde
trans-Chrysanthemol	0.01	Monoterpenic alcohol
Citronellal	0.22	Monoterpenic aldehyde
Borneol	0.19	Monoterpenic alcohol
α-Phellandren-8-ol	0.05	Monoterpenic alcohol
Isoneral	0.52	Monoterpenic aldehyde
Rosefuran oxide	0.17	Monoterpenic ether
Terpinen-4-ol	0.14	Monoterpenic alcohol
Isogeranial	0.85	Monoterpenic aldehyde
Unknown	0.06	Unknown
α-Terpineol	0.21	Monoterpenic alcohol
Myrtenal	0.01	Monoterpenic aldehyde
Unknown	0.12	Unknown
trans-Isopiperitenol	0.05	Monoterpenic alcohol
Unknown	0.08	Oxygenated monoterpene
Decanal	0.15	Aliphatic aldehyde
cis-Isopiperitenol	0.04	Monoterpenic alcohol
2,3-Epoxyneral?	0.07	Monoterpenic aldehyde
Nerol	0.02	Monoterpenic alcohol
Citronellol	0.13	Monoterpenic alcohol
Piperitone	0.03	Monoterpenic ketone
Neral	30.42	Monoterpenic aldehyde
(*E*)-Isogeraniol?	0.10	Monoterpenic alcohol
Geraniol	5.79	Monoterpenic alcohol
Geranial	40.33	Monoterpenic aldehyde
Unknown	0.16	Oxygenated monoterpene
Bornyl acetate	0.08	Monoterpenic ester
2-Undecanone	tr	Aliphatic ketone
Geranyl formate	0.07	Monoterpenic ester
Methyl geranate	0.01	Monoterpenic ester
Unknown	0.05	Unknown
α-Cubebene	0.03	Sesquiterpene

Cyclosativene II	0.09	Sesquiterpene
Neryl acetate	0.02	Monoterpenic ester
Geranic acid	0.05	Aliphatic acid
α-Copaene	0.24	Sesquiterpene
Unknown	0.08	Unknown
β-Bourbonene	0.03	Sesquiterpene
1,5-diepi-β-Bourbonene	0.01	Sesquiterpene
Geranyl acetate	3.23	Monoterpenic ester
β-Cubebene	0.04	Sesquiterpene
β-Elemene	0.13	Sesquiterpene
β-Longipinene	0.01	Sesquiterpene
Longifolene	0.03	Sesquiterpene
β-Caryophyllene	1.51	Sesquiterpene
β-Ylangene	0.03	Sesquiterpene
β-Copaene	0.04	Sesquiterpene
trans-α-Bergamotene	0.02	Sesquiterpene
6,9-Guaiadiene	0.02	Sesquiterpene
α-Humulene	0.13	Sesquiterpene
(*E*)-Isoeugenol	0.45	Phenylpropanoid
cis-Muurola-4(15),5-diene	0.03	Sesquiterpene
trans-Cadina-1(6),4-diene	0.04	Sesquiterpene
Germacrene D	0.12	Sesquiterpene
γ-Muurolene	0.03	Sesquiterpene
γ-Amorphene	0.03	Sesquiterpene
α-Selinene	0.02	Sesquiterpene
epi-Cubebol	0.10	Sesquiterpenic alcohol
α-Muurolene	0.10	Sesquiterpene
Methyl (*E*)-isoeugenol	0.05	Phenylpropanoid
δ-Amorphene	0.03	Sesquiterpene
Cubebol	0.24	Sesquiterpenic alcohol
γ-Cadinene	1.18	Sesquiterpene
δ-Cadinene	0.35	Sesquiterpene
10-epi-Cubebol?	0.04	Sesquiterpenic alcohol
(*E*)-γ-Bisabolene	0.14	Sesquiterpene
Neryl butyrate	0.07	Monoterpenic ester
α-Cadinene	0.04	Sesquiterpene
(*E*)-α-Bisabolene	0.01	Sesquiterpene
Geranyl butyrate?	0.01	Monoterpenic ester
α-Elemol	0.07	Sesquiterpenic alcohol
Germacrene B	0.05	Sesquiterpene
Geranyl butyrate	0.11	Monoterpenic ester
Caryophyllene oxide isomer	0.05	Sesquiterpenic ether
Caryophyllene oxide	0.44	Sesquiterpenic ether
Humulene epoxide II	0.04	Sesquiterpenic ether
Selin-6-en-4α-ol isomer	0.04	Sesquiterpenic alcohol

1-epi-Cubenol	0.04	Sesquiterpenic alcohol
τ-Cadinol	0.01	Sesquiterpenic alcohol
Cubenol	0.02	Sesquiterpenic alcohol
β-Eudesmol	0.02	Sesquiterpenic alcohol
α-Eudesmol	0.02	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
(2*Z*,6*Z*)-Farnesol	0.01	Sesquiterpenic alcohol
Farnesal isomer	0.01	Sesquiterpenic aldehyde
(2*E*,6*Z*)-Farnesal	0.01	Sesquiterpenic aldehyde
(2*E*,6*E*)-Farnesal	0.01	Sesquiterpenic aldehyde
Neophytadiene	0.02	Diterpene
Phytone	0.02	Terpenic ketone
meta-Camphorene	0.01	Diterpene
Geranyl caprylate	0.01	Monoterpenic ester
Unknown	0.02	Unknown
Unknown	0.01	Unknown
Unknown	0.03	Unknown
Unknown	0.07	Unknown
Unknown	0.01	Unknown
Unknown	0.01	Unknown
Dicitral	0.06	Diterpenic aldehyde
Unknown	0.02	Unknown
Phytol	0.01	Diterpenic alcohol
Unknown	0.09	Unknown
Phytol isomer I	0.01	Diterpenic alcohol
Unknown	0.02	Unknown
Unknown	0.02	Unknown
Unknown	0.03	Unknown
Consolidated total	**98.19**	

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

Bracketed value ([xx]): A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

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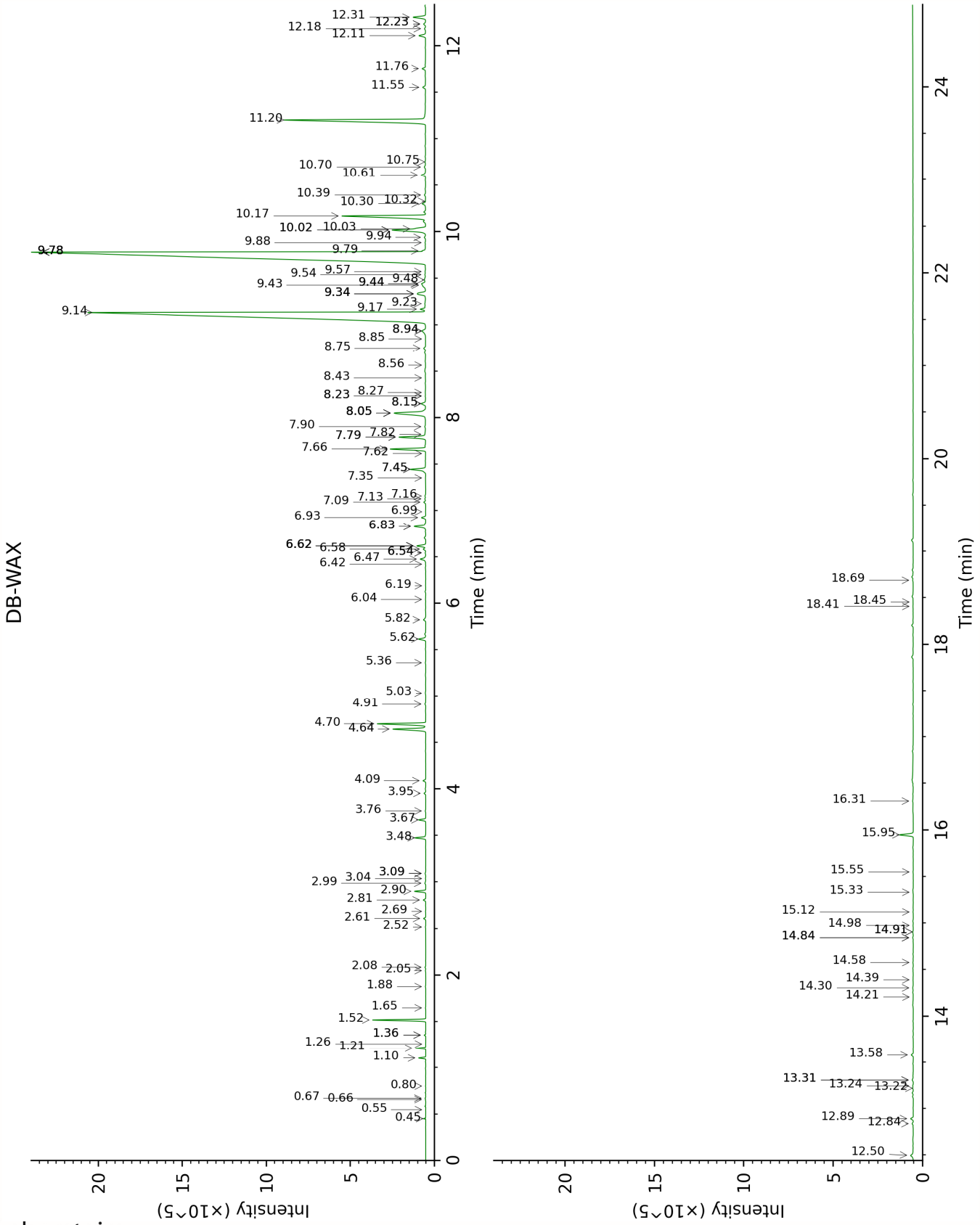
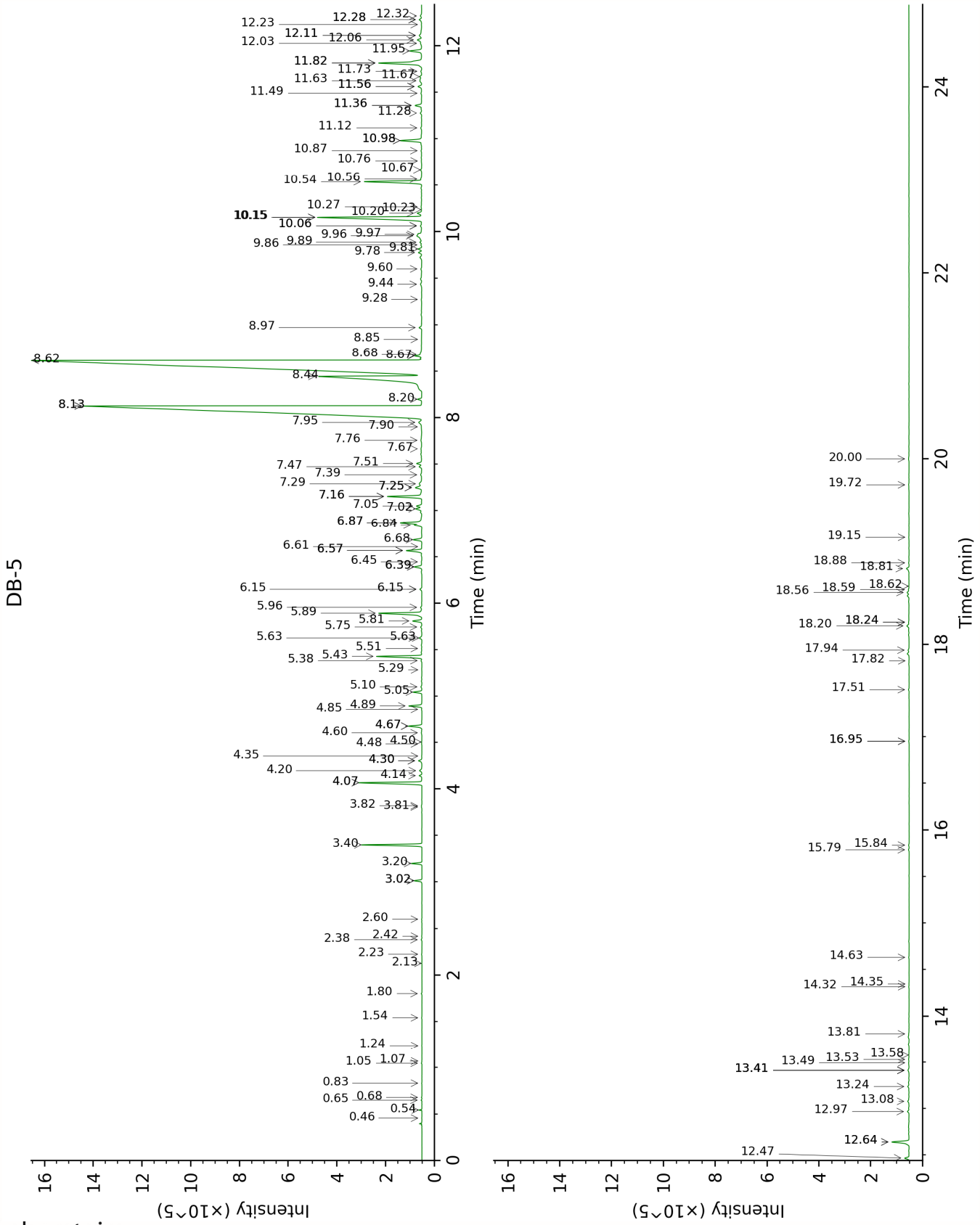

DB-WAX
Time (min)
Intensity (×10^5)
12.31
12.23
12.18
12.11
11.76
11.55
11.20
10.75
10.70
10.61
10.39
10.32
10.30
10.17
10.03
10.02
9.94
9.88
9.79
9.78
9.57
9.54
9.48
9.44
9.43
9.34
9.23
9.17
9.14
8.94
8.85
8.75
8.56
8.43
8.27
8.23
8.15
8.05
7.90
7.82
7.79
7.66
7.62
7.45
7.35
7.16
7.13
7.09
6.99
6.93
6.83
6.62
6.58
6.54
6.47
6.42
6.19
6.04
5.82
5.62
5.36
5.03
4.91
4.70
4.64
4.09
3.95
3.76
3.67
3.48
3.09
3.04
2.99
2.90
2.81
2.69
2.61
2.52
2.08
2.05
1.88
1.65
1.52
1.36
1.26
1.21
1.10
0.80
0.67
0.66
0.55
0.45
18.69
18.45
18.41
16.31
15.95
15.55
15.33
15.12
14.98
14.91
14.84
14.58
14.39
14.30
14.21
13.58
13.31
13.24
13.22
12.89
12.84
12.50


DB-5
Time (min)
Intensity (×10^5)
12.23
12.28
12.32
12.03
12.11
12.06
11.95
11.82
11.73
11.67
11.63
11.56
11.49
11.36
11.28
11.12
10.98
10.87
10.76
10.67
10.54
10.56
10.27
10.20
10.23
10.15
10.06
9.96
9.97
9.86
9.89
9.78
9.81
9.60
9.44
9.28
8.97
8.85
8.68
8.67
8.62
8.44
8.20
8.13
7.95
7.90
7.76
7.67
7.47
7.51
7.39
7.29
7.25
7.16
7.05
7.02
6.87
6.84
6.68
6.61
6.57
6.45
6.39
6.15
6.15
5.96
5.89
5.75
5.81
5.63
5.63
5.51
5.38
5.43
5.29
5.10
5.05
4.85
4.89
4.67
4.60
4.48
4.50
4.35
4.30
4.20
4.14
4.07
3.82
3.81
3.40
3.20
3.02
2.60
2.38
2.42
2.23
2.13
1.80
1.54
1.24
1.05
1.07
0.83
0.65
0.68
0.54
0.46
20.00
19.72
19.15
18.88
18.81
18.56
18.59
18.62
18.20
18.24
17.94
17.82
17.51
16.95
15.79
15.84
14.63
14.32
14.35
13.81
13.49
13.53
13.58
13.41
13.24
13.08
12.97
12.64
12.47

FULL ANALYSIS DATA

Isobutyral	Column DB-WAX			Column DB-5		
	0.45	783.7	0.03	0.46	538.8	tr
2-Methyl-3-buten-2-ol	1.36*	1012.7	[0.03]	0.54	606.2	0.03
Isovaleral	0.67	886.3	0.01	0.65	641.4	0.01
2-Methylbutyral	0.66	880.4	0.01	0.68	651.3	0.01
2-Ethylfuran	0.80	921.5	tr	0.83	702.0	tr
Isoamyl alcohol	3.09*	1173.7	[0.02]	1.05	732.7	0.01
2-Methylbutanol	3.09*	1173.7	[0.02]	1.07	736.0	tr
Toluene	1.26	1000.4	tr	1.24	759.1	0.01
Hexanal	1.65	1042.5	0.01	1.54	800.1	0.01
Unknown PEGR III [m/z 81, 69 (80), 41 (65), 83 (52), 109 (48), 55 (47)...]	0.55	838.2	tr	1.80	823.1	0.01
(2*E*)-Hexenal	3.04	1169.1	0.01	2.13	849.7	0.01
(3*Z*)-Hexenol	5.36	1343.4	0.01	2.22	857.7	0.01
4-Heptanone	2.08	1087.6	0.02	2.38	870.4	0.02
Hexanol	5.03	1319.5	0.02	2.42	873.5	0.01
Unknown CULE I [m/z 69, 41 (57), 81 (57), 80 (18), 79 (18), 67 (17)...]				2.60	888.4	0.01
(*E*)-2,4-Dimethyl-2,4-heptadiene	1.36*	1012.7	[0.03]	3.02*	918.8	[0.15]
Tricyclene	1.10	973.6	0.14	3.02*	918.8	[0.15]
α-Pinene	1.21	992.4	0.21	3.20	931.0	0.21
Camphene	1.52	1029.2	1.21	3.40	944.0	1.21
Sabinene	2.05	1083.8	0.01	3.81	970.8	0.01
β-Pinene	1.88	1066.1	0.01	3.82	971.6	0.01
6-Methyl-5-hepten-2-one	4.70	1300.0	1.42	4.07*	987.9	[1.47]
Dehydro-1,8-cineole	2.81	1150.3	0.07	4.07*	987.9	[1.47]
Myrcene	2.61	1134.1	0.06	4.14	992.9	0.07
6-Methyl-5-hepten-2-ol	6.58	1433.2	0.08	4.20	996.4	0.08
Octanal	4.09	1252.6	0.08	4.30*	1003.4	[0.09]
α-Phellandrene	2.52	1126.6	0.01	4.30*	1003.4	[0.09]
Δ3-Carene				4.35	1006.6	0.01
α-Terpinene	2.68	1140.3	0.01	4.48	1014.8	0.01
p-Menthatriene				4.50	1016.0	0.01
para-Cymene	3.76	1227.6	0.01	4.60	1022.2	0.02
β-Phellandrene	2.99	1165.0	0.03	4.67*	1026.7	[0.33]
Limonene	2.90	1157.9	0.29	4.67*	1026.7	[0.33]
Benzeneacetaldehyde	8.43	1574.8	0.01	4.85	1037.9	0.01

(*Z*)-β-Ocimene	3.48	1205.3	0.29	4.89	1040.2	0.29
(*E*)-β-Ocimene	3.67	1220.3	0.19	5.05	1050.0	0.20
2,6-Dimethyl-5-heptenal (melonal)	4.91	1310.6	0.02	5.10	1053.5	0.03
cis-Sabinene hydrate	6.54*	1430.2	[0.02]	5.29	1064.9	0.01
cis-Linalool oxide (fur.)	6.19	1403.7	0.01	5.38	1071.1	0.02
4-Nonanone	4.64	1295.5	1.09	5.43	1074.0	1.05
Camphenilone	6.04	1393.0	0.01	5.52	1079.2	0.01
trans-Linalool oxide (fur.)	6.54*	1430.2	[0.02]	5.63*	1086.3	[0.08]
Terpinolene	3.95	1242.1	0.05	5.63*	1086.3	[0.08]
4-Nonanol				5.75	1093.7	0.04
Rosefuran	5.62	1362.0	0.23	5.81	1097.7	0.23
Linalool	7.66	1514.8	1.09	5.89	1102.9	1.17
(*Z*)-6-Methyl-3,5-heptadien-2-one	7.82	1527.2	0.05	5.96	1106.9	0.04
trans-para-Mentha-2,8-dien-1-ol	8.56	1585.7	0.01	6.15*	1119.2	[0.05]
Unknown CYFL II [m/z 81, 79 (19), 41 (12), 92 (8), 77 (8)...]	5.82	1377.0	0.09	6.15*	1119.2	[0.05]
Unknown CYFL III [m/z 81, 70 (98), 67 (63), 82 (53), 41 (46), 69 (46), 109 (43)...]	6.48	1425.1	0.21	6.39*	1134.6	[0.20]
Unknown CYFL IV [m/z 95, 67 (86), 41 (68), 82 (64), 123 (62)...]	7.16	1476.6	0.03	6.39*	1134.6	[0.20]
Unknown MEOF V [m/z 70, 81 (94), 67 (52), 69 (45), 109 (44), 82 (35)...]	6.62*	1435.8	[0.28]	6.44	1138.0	0.02
exo-Isocitral	7.09	1471.6	0.06	6.57*	1145.7	[0.41]
trans-Chrysanthemal	6.83*	1451.7	[0.38]	6.57*	1145.7	[0.41]
trans-Chrysanthemol	9.17	1634.5	0.16	6.61	1148.4	0.01
Citronellal	6.62*	1435.8	[0.28]	6.68	1153.1	0.22
Borneol	9.34*	1648.0	[0.41]	6.84	1163.3	0.19
α-Phellandren-8-ol	9.78*	1684.8	[40.38]	6.87*	1165.1	[0.57]
Isoneral	7.45*	1498.2	[0.56]	6.87*	1165.1	[0.57]
Rosefuran oxide	8.15*	1553.1	[0.19]	7.02	1174.7	0.17
Terpinen-4-ol	8.15*	1553.1	[0.19]	7.05	1176.6	0.14
Isogeranial	7.79*	1524.9	[0.88]	7.16*	1183.2	[0.90]
Unknown CYFL XIV				7.16*	1183.2	[0.90]

[m/z 69, 41 (65), 109 (36), 67 (16), 84 (11), 43 (10), 55 (9)...]						
α-Terpineol	9.34*	1648.0	[0.41]	7.25*	1189.2	[0.22]
Myrtenal	8.23*	1559.6	[0.02]	7.25*	1189.2	[0.22]
Unknown DRMO III [m/z 43, 81 (47), 67 (45), 69 944), 41 (42), 59 (40), 55 (39)...]	8.75	1600.3	0.07	7.29	1191.8	0.12
trans-Isopiperitenol	9.94	1697.8	0.05	7.39	1198.0	0.05
Unknown CYFL VI [m/z 84, 41 (83), 83 (79), 91 (76), 93 (67), 119 (64), 137 (63), 109 (54), 108 (54)... 152 (4)]	9.79	1685.9	0.08	7.47	1203.5	0.08
Decanal	6.93	1459.1	0.13	7.51	1205.7	0.15
cis-Isopiperitenol	9.88	1693.2	0.02	7.67	1216.2	0.04
2,3-Epoxyneral?				7.76	1222.3	0.07
Nerol	10.61	1755.1	0.16	7.90	1232.0	0.02
Citronellol	10.30	1728.3	0.12	7.95	1235.2	0.13
Piperitone	9.44*	1656.9	[0.17]	8.13*	1246.9	[30.45]
Neral	9.14	1631.6	30.42	8.13*	1246.9	[30.45]
(*E*)-Isogeraniol?	10.75	1767.5	0.02	8.20	1251.8	0.10
Geraniol	11.20	1806.4	6.04	8.44†	1268.2	5.49
Geranial	9.78*	1684.8	[40.38]	8.62	1279.6	40.33
Unknown CYFL VII [m/z 43, 69 (77), 41 (70), 109 (54)... 152 (6)]	12.50	1923.4	0.13	8.67	1283.0	0.16
Bornyl acetate	7.90	1533.7	0.05	8.68	1284.0	0.07
2-Undecanone	8.23*	1559.6	[0.02]	8.85	1295.2	tr
Geranyl formate	9.48	1660.3	0.07	8.97	1303.6	0.07
Methyl geranate	9.34*	1648.0	[0.41]	9.28	1324.7	0.01
Unknown CYFL VIII [m/z 82, 59 (44), 41 (43), 95 (31), 43 (29), 81 (24)...]	12.23*	1899.2	[0.07]	9.44	1336.1	0.05
α-Cubebene	6.42	1420.9	0.01	9.60	1347.7	0.03
Cyclosativene II	6.62*	1435.8	[0.28]	9.78	1360.0	0.09
Neryl acetate	9.78*	1684.8	[40.38]	9.86	1365.8	0.02
Geranic acid	16.31	2306.6	0.05	9.89	1367.8	0.05
α-Copaene	6.83*	1451.7	[0.38]	9.96	1372.7	0.24
Unknown ZIOF XI [m/z 81, 59 (94), 41	12.89	1960.8	0.09	9.97	1373.7	0.08

(74), 85 (40), 43 (55)...]						
β-Bourbonene	7.13	1474.3	0.03	10.06*	1380.2	[0.04]
1,5-diepi-β-Bourbonene	6.99	1463.8	0.01	10.06*	1380.2	[0.04]
Geranyl acetate	10.17	1717.0	3.23	10.15*	1386.6	[3.27]
β-Cubebene	7.45*	1498.2	[0.56]	10.15*	1386.6	[3.27]
β-Elemene	8.05*	1545.1	[1.63]	10.20	1389.7	0.13
β-Longipinene	7.35	1491.2	0.01	10.24	1392.4	0.01
Longifolene	7.62	1511.0	0.01	10.27	1394.5	0.03
β-Caryophyllene	8.05*	1545.1	[1.63]	10.54	1413.9	1.51
β-Ylangene	7.79*	1524.9	[0.88]	10.56	1416.0	0.03
β-Copaene	8.05*	1545.1	[1.63]	10.67	1423.9	0.04
trans-α-Bergamotene	8.05*	1545.1	[1.63]	10.76	1430.9	0.02
6,9-Guaiadiene	8.27	1562.5	0.03	10.87	1439.2	0.02
α-Humulene	8.94*	1615.3	[0.21]	10.98*	1447.3	[0.58]
(*E*)-Isoeugenol	15.95	2267.9	0.45	10.98*	1447.3	[0.58]
cis-Muurola-4(15),5-diene	8.94*	1615.3	[0.21]	11.12	1457.4	0.03
trans-Cadina-1(6),4-diene	8.85	1608.3	0.01	11.28	1469.3	0.04
Germacrene D	9.43	1655.6	0.12	11.36*	1475.3	[0.19]
γ-Muurolene	9.23	1639.4	0.03	11.36*	1475.3	[0.19]
γ-Amorphene	9.44*	1656.9	[0.17]	11.49	1485.1	0.03
α-Selinene	9.57	1667.7	0.02	11.56*	1490.5	[0.11]
epi-Cubebol	11.55	1837.9	0.10	11.56*	1490.5	[0.11]
α-Muurolene	9.78*	1684.8	[40.38]	11.63	1495.1	0.10
Methyl (*E*)-isoeugenol	14.58	2124.9	0.02	11.67	1498.4	0.05
δ-Amorphene	9.54	1665.0	0.03	11.73	1502.6	0.03
Cubebol	12.11	1887.9	0.24	11.82*	1509.5	[1.42]
γ-Cadinene	10.02*†	1704.4	[1.29]	11.82*	1509.5	[1.42]
δ-Cadinene	10.03*†	1705.3	[0.24]	11.95	1519.7	0.35
10-epi-Cubebol?	13.31*	2000.0	[0.05]	12.03	1526.0	0.04
(*E*)-γ-Bisabolene	10.02*†	1704.4	[1.29]	12.06	1529.0	0.14
Neryl butyrate				12.11*	1532.7	[0.11]
α-Cadinene	10.39	1736.3	0.04	12.11*	1532.7	[0.11]
(*E*)-α-Bisabolene	10.32	1730.5	0.01	12.23	1541.8	0.01
Geranyl butyrate?				12.28*	1546.0	[0.08]
α-Elemol	13.58	2026.1	0.07	12.28*	1546.0	[0.08]
Germacrene B	10.70	1762.8	0.05	12.32	1549.1	0.05
Geranyl butyrate	11.76	1856.0	0.11	12.47	1560.6	0.11
Caryophyllene oxide isomer	12.23*	1899.2	[0.07]	12.64*	1574.3	[0.49]
Caryophyllene oxide	12.31	1905.8	0.44	12.64*	1574.3	[0.49]
Humulene epoxide II	12.84	1955.7	0.04	12.97	1599.9	0.04
Selin-6-en-4α-ol	14.30	2097.6	0.04	13.08	1608.7	0.04

isomer						
1-epi-Cubenol	13.31*	2000.0	[0.05]	13.24	1621.9	0.04
τ-Cadinol	14.39	2106.1	0.01	13.41*	1636.2	[0.04]
Cubenol	13.22	1991.7	0.02	13.41*	1636.2	[0.04]
β-Eudesmol	14.91*	2158.6	[0.03]	13.49	1643.0	0.02
α-Eudesmol	14.84*	2152.2	[0.02]	13.53	1645.9	0.02
Unknown JUVI XVI [m/z 43, 81 (84), 41 (64), 67 (62), 95 (58), 79 (58)... 204 (48), 220 (2)]	14.98	2165.8	0.01	13.58	1649.9	0.01
(2*Z*,6*Z*)-Farnesol	15.55	2225.2	0.01	13.81	1669.2	0.01
Farnesal isomer				14.32	1711.3	0.01
(2*E*,6*Z*)-Farnesal	14.84*	2152.2	[0.02]	14.35	1713.8	0.01
(2*E*,6*E*)-Farnesal	15.33	2202.5	0.01	14.63	1738.6	0.01
Neophytadiene	12.18	1894.7	0.04	15.79	1840.2	0.02
Phytone	14.21	2087.9	0.01	15.84	1844.8	0.02
meta-Camphorene	14.91*	2158.6	[0.03]	16.95*	1948.0	[0.02]
Geranyl caprylate	15.12	2180.6	0.01	16.95*	1948.0	[0.02]
Unknown LICU V [m/z 41, 69 (95), 109 (41), 95 (39), 55 (36), 121 (36)...]				17.51	2001.4	0.02
Unknown LICU VI [m/z 69, 41 (90), 95 (49), 109 (43), 219 (43), 55 (30)...]				17.82	2031.9	0.01
Unknown LICU VII [m/z 69, 41 (94), 81 (42), 109 (39), 107 (33), 43 (31)...]				17.94	2043.3	0.03
Unknown CYFL IX [m/z 93, 69 (95), 135 (76), 107 (53), 41 (53), 109 (50)... 235 (10)...]				18.20	2069.2	0.07
Unknown LIMU XXI [m/z 57, 85 (55), 163 (47), 41 (44), 120 (35), 202 (30), 145 (25)... 219 (17), 304 (t)]	18.46	2550.6	0.01	18.24*	2073.1	[0.02]
Unknown LICU IV [m/z 69, 41 (73), 55 (46), 95 (40), 109 (39), 91 (39)...]				18.24*	2073.1	[0.02]
Dicitral				18.56	2104.7	0.06

Unknown DRMO VI [m/z 69, 41 (37), 81 (23), 95 (19), 109 (18)...]	18.41	2545.0	0.02	18.59	2107.8	0.02
Phytol	18.69	2578.6	0.02	18.62	2111.6	0.01
Unknown LICU II [m/z 69, 41 (38), 151 (36), 123 (34), 82 (24), 43 (23), 109 (21)...]				18.81	2131.2	0.09
Phytol isomer I				18.88	2137.6	0.01
Unknown CYFL XIII [m/z 94, 43 (85), 93 (81), 69 (76), 137 (76), 95 (60), 134 (51)...]				19.15	2166.1	0.02
Unknown CYFL X [m/z 94, 43 (56), 123 (55), 69 (53), 95 (42), 79 (39)...]				19.72	2225.9	0.02
Unknown CYFL XII [m/z 123, 94 (100), 43 (86), 69 (75), 95 (47), 41 (47), 93 (45)...]				20.00	2256.1	0.03
Total reported		97.02%			98.15%	

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, only the first one is 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