Date : 2025-04-22

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 25D11-PTH03
Customer Identification : Frankincense Carterii ORGANIC - Somalia - F00112R
Type : Essential Oil
Source : *Boswellia carteri*
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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 : Sylvain Mercier, M. Sc., Chimiste 2014-005
Date : 2025-04-15

Physicochemical data

Refractive index : 1.4706 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2025-04-11

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
2-Methyl-3-buten-2-ol	0.01	Aliphatic alcohol
(*E*)-2-Methyl-1,3-pentadiene	tr	Alkene
3-Methyl-2-butanone	tr	Aliphatic ketone
Unknown	0.01	Unknown
Toluene	0.13	Simple phenolic
Unknown	0.04	Alkene
Unknown	0.03	Unknown
Hashishene	0.81	Monoterpene
Tricyclene	0.09	Monoterpene
α-Thujene	0.58	Monoterpene
α-Pinene	65.26	Monoterpene
α-Fenchene	0.04	Monoterpene
Camphene	1.44	Monoterpene
Unknown	0.03	Monoterpene
Thuja-2,4(10)-diene	0.74	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.14	Monoterpene
Sabinene	2.53	Monoterpene
β-Pinene	3.44	Monoterpene
Pseudolimonene isomer	0.03	Monoterpene
Dehydro-1,8-cineole	0.10	Monoterpenic ether
Myrcene	1.73	Monoterpene
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α-Phellandrene	0.35	Monoterpene
Pseudolimonene	0.03	Monoterpene
Δ3-Carene	1.40	Monoterpene
ortho-Methylanisole	0.05	Simple phenolic
α-Terpinene	0.12	Monoterpene
para-Cymene	1.94	Monoterpene
1,8-Cineole	0.09	Monoterpenic ether
Limonene	4.99	Monoterpene
β-Phellandrene	0.41	Monoterpene
ortho-Cymene	0.06	Monoterpene
(*Z*)-β-Ocimene	0.28	Monoterpene
Unknown	0.01	Unknown
(*E*)-β-Ocimene	0.13	Monoterpene
γ-Terpinene	0.22	Monoterpene
cis-Sabinene hydrate	0.02	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Octanol	0.23	Aliphatic alcohol
Unknown	0.07	Oxygenated monoterpene

Isoterpinolene	0.02	Monoterpene
para-Cymenene	0.18	Monoterpene
Terpinolene	0.09	Monoterpene
α-Pinene oxide	0.10	Monoterpenic ether
6,7-Epoxymyrcene	0.02	Monoterpenic ether
trans-Sabinene hydrate	0.02	Monoterpenic alcohol
Perillene	0.02	Monoterpenic ether
α-Thujone	0.01	Monoterpenic ketone
Verbenol analog?	0.19	Monoterpenic alcohol
Linalool	0.13	Monoterpenic alcohol
Unknown	0.02	Monoterpenic alcohol
β-Thujone	0.08	Monoterpenic ketone
Octen-3-yl acetate	0.03	Aliphatic ester
trans-para-Mentha-2,8-dien-1-ol	0.05	Monoterpenic alcohol
α-Campholenal	0.28	Monoterpenic aldehyde
Myrcenol	0.02	Monoterpenic alcohol
cis-Limonene oxide	0.04	Monoterpenic ether
allo-Ocimene	0.07	Monoterpene
trans-Limonene oxide	0.02	Monoterpenic ether
trans-Pinocarveol	0.80	Monoterpenic alcohol
cis-para-Mentha-2,8-dien-1-ol	0.04	Monoterpenic alcohol
trans-Sabinol	0.16	Monoterpenic alcohol
trans-Verbenol	0.53	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.24	Monoterpenic alcohol
Sabinaketone	0.04	Normonoterpenic ketone
Pinocamphone	0.10	Monoterpenic ketone
Pinocarvone	0.04	Monoterpenic ketone
Borneol	0.11	Monoterpenic alcohol
α-Phellandren-8-ol	0.38	Monoterpenic alcohol
Umbellulone	0.02	Monoterpenic ketone
Terpinen-4-ol	0.58	Monoterpenic alcohol
Thuj-3-en-10-al	0.04	Monoterpenic aldehyde
Cryptone	0.04	Normonoterpenic ketone
para-Cymen-8-ol	0.26	Monoterpenic alcohol
α-Terpineol	0.30	Monoterpenic alcohol
Myrtenal	0.26	Monoterpenic aldehyde
Myrtenol	0.21	Monoterpenic alcohol
cis-α-Phellandrene epoxide (iPr vs Me)	0.02	Monoterpenic ether
Verbenone	0.66	Monoterpenic ketone
trans-Piperitol	0.01	Monoterpenic alcohol
Octyl acetate	1.26	Aliphatic ester
trans-Carveol	0.22	Monoterpenic alcohol
exo-2-Hydroxycineole	0.02	Monoterpenic alcohol
cis-Carveol	0.04	Monoterpenic alcohol
Cuminal	0.02	Monoterpenic aldehyde

Methyl decyl ether	0.03	Aliphatic ether
Carvone	0.08	Monoterpenic ketone
Carvotanacetone	0.02	Monoterpenic ketone
Unknown	0.02	Unknown
Piperitone	0.04	Monoterpenic ketone
3,5-Dimethoxytoluene	0.06	Simple phenolic
Unknown	0.05	Oxygenated monoterpene
Bornyl acetate	0.38	Monoterpenic ester
para-Cymen-7-ol	0.02	Monoterpenic alcohol
Thymol	0.02	Monoterpenic alcohol
Carvacrol	0.01	Monoterpenic alcohol
Myrtenyl acetate	0.01	Monoterpenic ester
Bicycloelemene	0.03	Sesquiterpene
Unknown	0.02	Unknown
α-Terpinyl acetate	0.05	Monoterpenic ester
α-Ylangene	0.02	Sesquiterpene
α-Copaene	0.09	Sesquiterpene
β-Bourbonene	0.24	Sesquiterpene
β-Cubebene	0.02	Sesquiterpene
Geranyl acetate	0.06	Monoterpenic ester
β-Elemene	0.29	Sesquiterpene
Isocaryophyllene	0.02	Sesquiterpene
β-Caryophyllene	0.21	Sesquiterpene
β-Ylangene	0.05	Sesquiterpene
β-Copaene	0.02	Sesquiterpene
trans-α-Bergamotene	0.04	Sesquiterpene
6,9-Guaiadiene	0.13	Sesquiterpene
trans-Muurola-3,5-diene	0.04	Sesquiterpene
α-Humulene	0.08	Sesquiterpene
allo-Aromadendrene	0.04	Sesquiterpene
cis-Muurola-4(15),5-diene	0.02	Sesquiterpene
trans-Cadina-1(6),4-diene	0.02	Sesquiterpene
γ-Muurolene	0.05	Sesquiterpene
Germacrene D	0.02	Sesquiterpene
trans-Muurola-4(15),5-diene	[0.18]	Sesquiterpene
β-Selinene	[0.18]	Sesquiterpene
Bicyclogermacrene	0.02	Sesquiterpene
α-Selinene	0.06	Sesquiterpene
epi-Cubebol	0.02	Sesquiterpenic alcohol
α-Muurolene	0.06	Sesquiterpene
Cubebol	0.03	Sesquiterpenic alcohol
γ-Cadinene	0.05	Sesquiterpene
Zonarene	tr	Sesquiterpene
trans-Calamenene	0.02	Sesquiterpene
δ-Cadinene	0.12	Sesquiterpene

α-Calacorene	0.02	Sesquiterpene
Germacrene B	0.02	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Caryophyllene oxide	0.14	Sesquiterpenic ether
Viridiflorol	0.31	Sesquiterpenic alcohol
Humulene epoxide II	0.06	Sesquiterpenic ether
4,10-diepi-Guaiol	0.02	Sesquiterpenic alcohol
1,10-diepi-Cubenol	0.01	Sesquiterpenic alcohol
τ-Muurolol	0.01	Sesquiterpenic alcohol
τ-Cadinol	0.06	Sesquiterpenic alcohol
β-Eudesmol	0.03	Sesquiterpenic alcohol
α-Cadinol	0.02	Sesquiterpenic alcohol
α-Phellandrene dimer II	0.04	Diterpene
α-Phellandrene dimer III	0.02	Diterpene
(3*E*)-Cembrene A	0.04	Diterpene
para-Camphorene	0.02	Diterpene
Cembrene C	0.02	Diterpene
Verticilla-4(20),7,11-triene	0.03	Diterpene
Cembrenol	0.02	Diterpenic alcohol
Incensole	0.02	Diterpenic alcohol
Serratol	0.10	Diterpenic alcohol
Consolidated total	**99.25**	

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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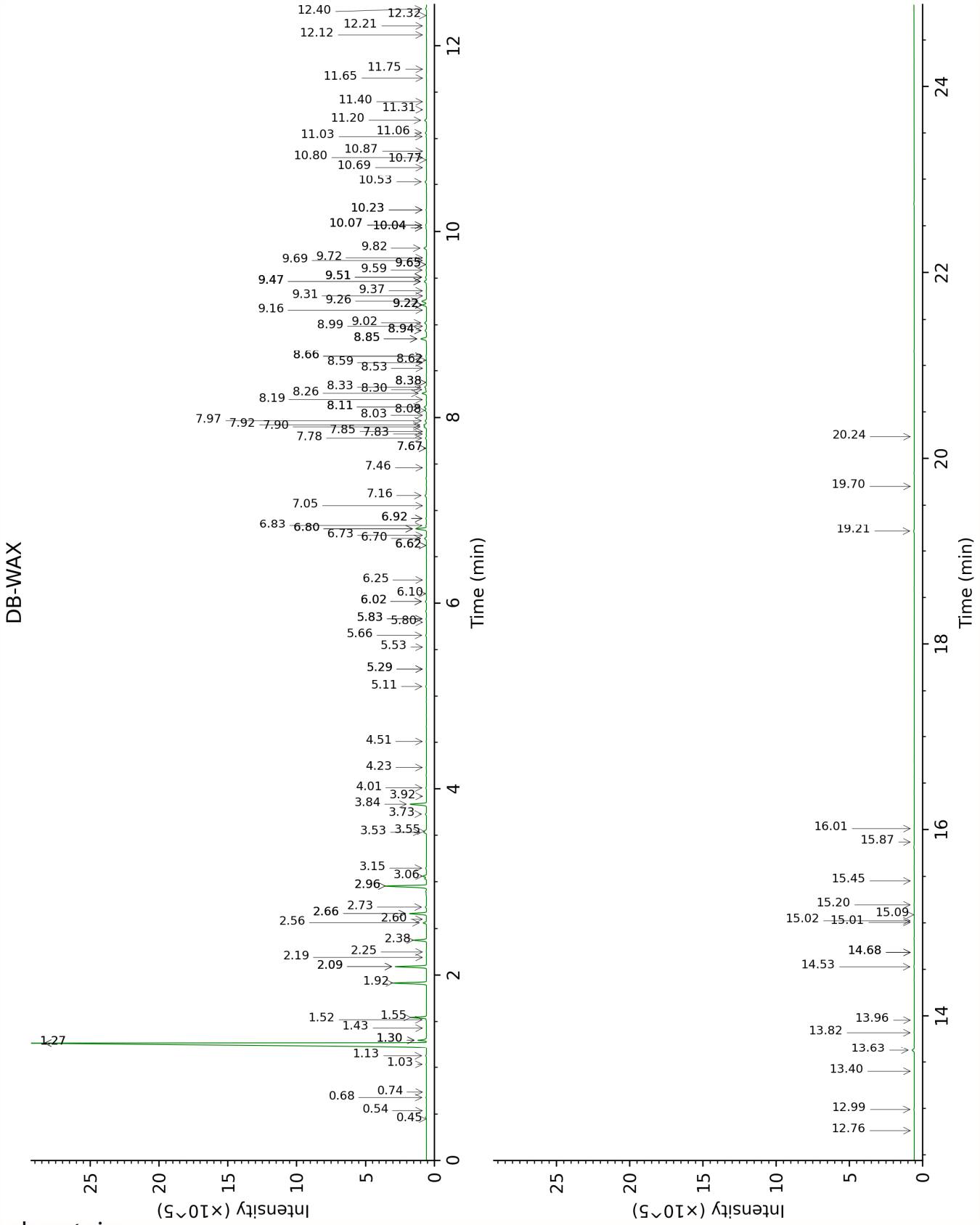
DB-WAX
Time (min)
Intensity (×10^5)
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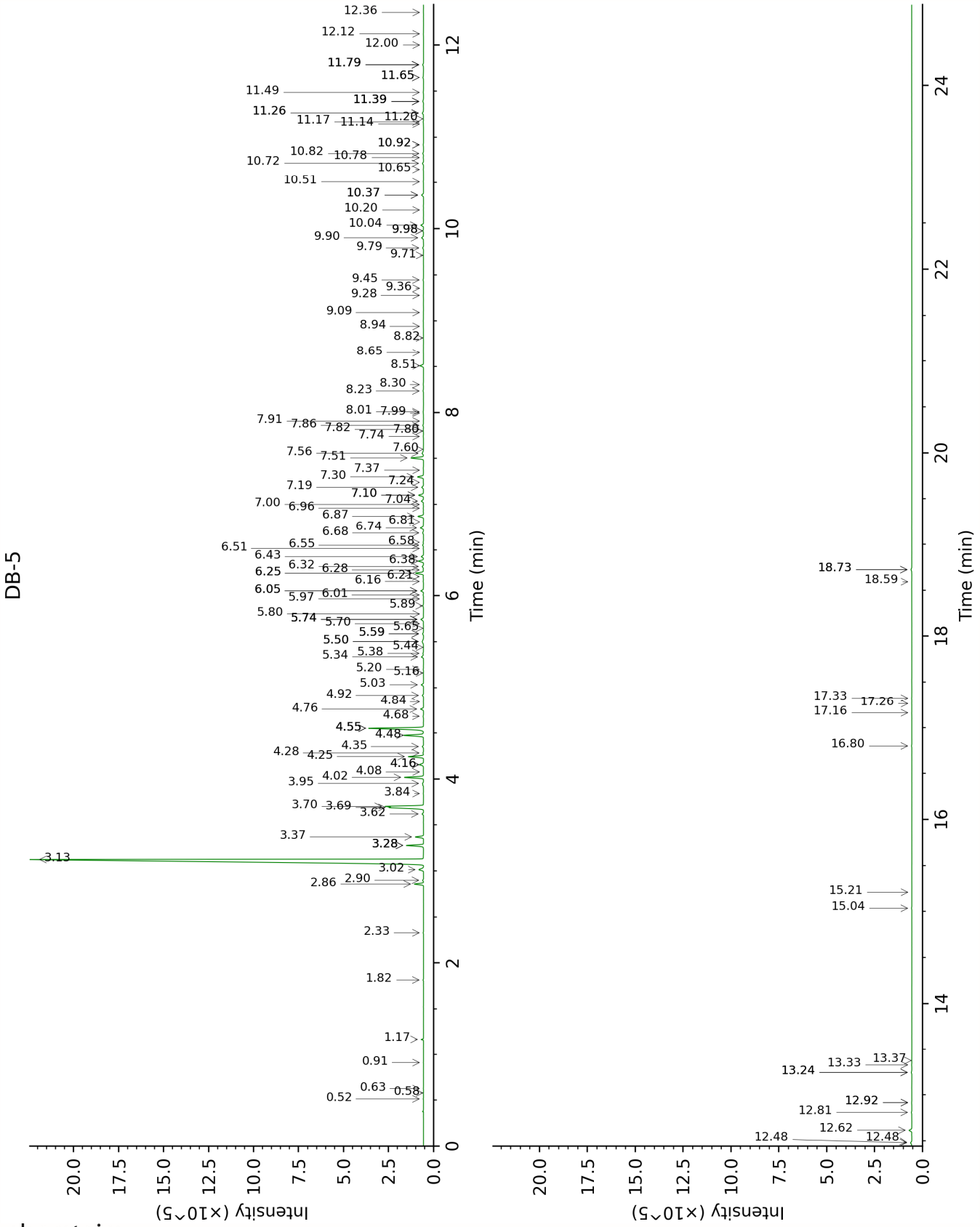
12.32
12.21
12.12
11.75
11.65
11.40
11.31
11.20
11.03
11.06
10.87
10.80
10.77
10.69
10.53
10.23
10.07
10.04
9.82
9.69
9.72
9.65
9.59
9.47
9.51
9.37
9.31
9.26
9.22
9.16
9.02
8.99
8.94
8.85
8.66
8.59
8.62
8.53
8.38
8.33
8.30
8.26
8.19
8.11
8.08
8.03
7.97
7.92
7.90
7.85
7.83
7.78
7.67
7.46
7.16
7.05
6.92
6.83
6.80
6.73
6.70
6.62
6.25
6.10
6.02
5.83
5.80
5.66
5.53
5.29
5.11
4.51
4.23
4.01
3.92
3.84
3.73
3.53
3.55
3.15
3.06
2.96
2.73
2.66
2.60
2.56
2.38
2.25
2.19
2.09
1.92
1.55
1.52
1.43
1.30
1.27
1.13
1.03
0.74
0.68
0.54
0.45
20.24
19.70
19.21
16.01
15.87
15.45
15.20
15.09
15.02
15.01
14.68
14.53
13.96
13.82
13.63
13.40
12.99
12.76


DB-5
Time (min)
Intensity (×10^5)
12.36
12.12
12.00
11.79
11.65
11.49
11.39
11.26
11.17
11.14
11.20
10.92
10.82
10.78
10.72
10.65
10.51
10.37
10.20
10.04
9.98
9.90
9.79
9.71
9.45
9.36
9.28
9.09
8.94
8.82
8.65
8.51
8.23
8.30
8.01
7.99
7.91
7.86
7.82
7.74
7.80
7.56
7.51
7.60
7.37
7.30
7.24
7.19
7.10
7.04
7.00
6.96
6.87
6.81
6.68
6.74
6.58
6.51
6.55
6.43
6.38
6.32
6.28
6.25
6.21
6.16
6.05
6.01
5.97
5.89
5.80
5.74
5.70
5.65
5.59
5.50
5.44
5.38
5.34
5.20
5.16
5.03
4.92
4.84
4.76
4.68
4.55
4.48
4.35
4.28
4.25
4.16
4.08
4.02
3.95
3.84
3.70
3.69
3.62
3.37
3.28
3.13
3.02
2.90
2.86
2.33
1.82
1.17
0.91
0.63
0.58
0.52
18.73
18.59
17.33
17.26
17.16
16.80
15.21
15.04
13.37
13.33
13.24
12.92
12.81
12.62
12.48
12.48

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
2-Methyl-3-buten-2-ol	1.43	1010.4	0.01	0.52	600.8	0.01
(*E*)-2-Methyl-1,3-pentadiene	0.45	752.9	tr	0.58	624.1	tr
3-Methyl-2-butanone	0.74	895.1	0.01	0.63	641.1	tr
Unknown BODA I [m/z 93, 91 (70), 77 (48), 108 (42)]	0.54	814.1	0.01	0.91	717.9	0.01
Toluene	1.30*†	996.7	[0.72]	1.17	755.2	0.13
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.68	872.3	0.04	1.82	829.1	0.04
Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	1.04	949.3	0.03	2.33	872.5	0.03
Hashishene	1.27*†	992.1	[65.32]	2.86	914.2	0.81
Tricyclene	1.13	966.1	0.09	2.90	916.9	0.09
α-Thujene	1.30*†	996.7	[0.72]	3.02	924.7	0.58
α-Pinene	1.27*†	992.1	[65.32]	3.13	932.0	65.26
α-Fenchene	1.52	1019.8	0.04	3.28*	942.3	[1.50]
Camphene	1.55	1022.5	1.44	3.28*	942.3	[1.50]
Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)]	2.19	1090.1	0.03	3.28*	942.3	[1.50]
Thuja-2,4(10)-diene	2.09*	1079.8	[3.17]	3.37	948.5	0.74
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.66*	1129.6	[1.83]	3.62	965.2	0.14
Sabinene	2.09*	1079.8	[3.17]	3.69*†	970.0	[3.11]
β-Pinene	1.92	1061.3	3.44	3.70*†	970.7	[2.86]
Pseudolimonene isomer	2.25	1096.2	0.02	3.84	980.1	0.03
Dehydro-1,8-cineole	2.96*	1153.5	[4.84]	3.95	987.4	0.10
Myrcene	2.66*	1129.6	[1.83]	4.02	991.9	1.73
6-Methyl-5-hepten-2-ol	6.62*	1427.8	[0.05]	4.08	995.8	0.02
α-Phellandrene	2.56	1121.6	0.35	4.16*	1001.1	[0.48]
Pseudolimonene	2.60	1124.6	0.03	4.16*	1001.1	[0.48]
Δ3-Carene	2.38	1106.5	1.31	4.24	1006.7	1.40
ortho-Methylanisole	5.66	1356.1	0.11	4.28	1009.2	0.05

α-Terpinene	2.73	1135.2	0.12	4.35	1013.6	0.12
para-Cymene	3.84	1222.0	1.91	4.48	1021.4	1.94
1,8-Cineole	3.15	1168.9	0.09	4.55*	1026.2	[5.48]
Limonene	2.96*	1153.5	[4.84]	4.55*	1026.2	[5.48]
β-Phellandrene	3.06	1162.0	0.41	4.55*	1026.2	[5.48]
ortho-Cymene	4.23	1251.0	0.04	4.68	1034.5	0.06
(*Z*)-β-Ocimene	3.53	1199.8	0.32	4.76	1039.5	0.28
Unknown BOFR III [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...]	7.06	1460.6	0.02	4.84	1044.6	0.01
(*E*)-β-Ocimene	3.73	1214.2	0.13	4.92	1049.3	0.13
γ-Terpinene	3.55	1200.6	0.19	5.03	1056.6	0.22
cis-Sabinene hydrate	6.62*	1427.8	[0.05]	5.16	1064.7	0.02
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.51	1271.6	0.04	5.20	1067.2	0.03
Octanol	7.90	1525.7	0.29	5.34	1075.8	0.23
Unknown BODA VI [m/z 43, 94 (63), 109 (61), 59 (55), 79 (51)...152 (2)]	6.92*	1450.3	[0.09]	5.38	1078.2	0.07
Isoterpinolene	3.92	1228.2	0.02	5.44	1082.3	0.02
para-Cymenene	6.02*	1382.8	[0.14]	5.50*	1086.3	[0.26]
Terpinolene	4.01	1234.9	0.09	5.50*	1086.3	[0.26]
α-Pinene oxide	5.11	1315.7	0.10	5.59*	1091.6	[0.12]
6,7-Epoxymyrcene	5.80	1366.4	0.02	5.59*	1091.6	[0.12]
trans-Sabinene hydrate	7.67*	1507.6	[0.05]	5.65	1095.4	0.02
Perillene	5.83*	1369.1	[0.06]	5.70	1098.6	0.02
α-Thujone	5.83*	1369.1	[0.06]	5.74*	1101.5	[0.33]
Verbenol analog?	7.97	1530.9	0.19	5.74*	1101.5	[0.33]
Linalool	7.78	1516.1	0.13	5.74*	1101.5	[0.33]
Unknown ORMA I [m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]	8.19	1548.7	0.04	5.80	1105.3	0.02
β-Thujone	6.02*	1382.8	[0.14]	5.89	1110.9	0.08
Octen-3-yl acetate	5.53	1346.8	0.02	5.97	1115.8	0.03
trans-para-Mentha-	8.66*	1585.4	[0.10]	6.01	1118.6	0.05

2,8-dien-1-ol						
α-Campholenal	6.70	1433.5	0.28	6.06*	1121.4	[0.31]
Myrcenol	8.53	1575.2	0.02	6.06*	1121.4	[0.31]
cis-Limonene oxide	6.10	1389.0	0.05	6.16	1128.0	0.04
allo-Ocimene	5.29*	1329.4	[0.04]	6.21	1131.3	0.07
trans-Limonene oxide	6.25	1399.8	0.02	6.25*	1133.8	[0.82]
trans-Pinocarveol	8.85*	1600.7	[0.81]	6.25*	1133.8	[0.82]
cis-para-Mentha-2,8-dien-1-ol	9.22*	1630.5	[0.54]	6.28	1136.0	0.04
trans-Sabinol	9.51*	1654.9	[0.15]	6.32	1138.4	0.16
trans-Verbenol	9.22*	1630.5	[0.54]	6.38	1142.2	0.53
meta-Mentha-4,6-dien-8-ol	9.02	1614.8	0.26	6.43	1145.3	0.24
Sabinaketone	8.38*	1563.3	[0.04]	6.52	1151.0	0.04
Pinocamphone	6.92*	1450.3	[0.09]	6.55	1153.3	0.10
Pinocarvone	7.67*	1507.6	[0.05]	6.58	1155.3	0.04
Borneol	9.47*	1651.2	[0.37]	6.68	1161.9	0.11
α-Phellandren-8-ol	9.82	1680.5	0.35	6.74	1165.4	0.38
Umbellulone	8.59*†	1579.9	[0.03]	6.81	1170.0	0.02
Terpinen-4-ol	8.26	1554.1	0.57	6.87	1173.9	0.58
Thuj-3-en-10-al	8.38*	1563.3	[0.04]	6.96	1179.6	0.04
Cryptone	8.85*	1600.7	[0.81]	7.00	1182.2	0.04
para-Cymen-8-ol	11.20	1797.9	0.26	7.04	1184.5	0.26
α-Terpineol	9.47*	1651.2	[0.37]	7.10*	1188.7	[0.56]
Myrtenal	8.33	1559.3	0.26	7.10*	1188.7	[0.56]
Myrtenol	10.53	1740.6	0.21	7.19	1194.2	0.21
cis-α-Phellandrene epoxide (iPr vs Me)	10.69	1754.3	0.05	7.24	1197.6	0.02
Verbenone	9.26	1633.8	0.69	7.30	1201.5	0.66
trans-Piperitol	10.07*	1700.8	[0.13]	7.37	1206.2	0.01
Octyl acetate	6.80*	1441.3	[1.27]	7.51	1215.2	1.26
trans-Carveol	11.06	1786.3	0.16	7.56	1218.5	0.22
exo-2-Hydroxycineole	11.31	1807.9	0.01	7.60	1221.5	0.02
cis-Carveol	11.40	1815.6	0.03	7.74	1230.9	0.04
Cuminal	10.23*	1714.7	[0.07]	7.80	1234.8	0.02
Methyl decyl ether	5.29*	1329.4	[0.04]	7.82	1236.0	0.03
Carvone	9.65*	1666.1	[0.09]	7.86	1239.0	0.08
Carvotanacetone	9.16	1626.0	0.03	7.91	1242.1	0.02
Unknown CALU IV [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	10.77	1761.3	0.03	7.99	1247.9	0.02
Piperitone	9.59	1661.2	0.08	8.01	1248.9	0.04

3,5-Dimethoxytoluene	11.02	1782.9	0.06	8.23	1264.1	0.06
Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]				8.30	1268.8	0.05
Bornyl acetate	7.92	1527.3	0.35	8.51	1282.6	0.38
para-Cymen-7-ol	13.82	2039.8	0.03	8.65	1292.3	0.02
Thymol	14.68*	2124.4	[0.01]	8.82	1303.3	0.02
Carvacrol	15.01	2156.9	0.02	8.94	1312.1	0.01
Myrtenyl acetate	9.31	1638.5	0.03	9.09	1322.7	0.01
Bicycloelemene	6.80*	1441.3	[1.27]	9.28	1335.9	0.03
Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.36	1341.3	0.02
α-Terpinyl acetate	9.37	1643.0	0.06	9.45	1347.7	0.05
α-Ylangene	6.73	1436.1	0.02	9.71	1366.5	0.02
α-Copaene	6.84	1444.0	0.09	9.79	1372.2	0.09
β-Bourbonene	7.16	1468.9	0.23	9.90	1380.0	0.24
β-Cubebene	7.46	1491.4	0.02	9.98*	1385.3	[0.08]
Geranyl acetate	10.23*	1714.7	[0.07]	9.98*	1385.3	[0.08]
β-Elemene	8.11*	1542.4	[0.31]	10.04	1389.6	0.29
Isocaryophyllene	7.85	1521.8	0.02	10.20	1401.2	0.02
β-Caryophyllene	8.08	1539.6	0.21	10.36*	1413.2	[0.21]
β-Ylangene	7.82	1519.7	0.05	10.36*	1413.2	[0.21]
β-Copaene	8.03	1535.5	0.04	10.51	1424.0	0.02
trans-α-Bergamotene	8.11*	1542.4	[0.31]	10.65	1434.3	0.04
6,9-Guaiadiene	8.30	1557.2	0.10	10.72	1439.3	0.13
trans-Muurola-3,5-diene	8.62*†	1582.0	[0.02]	10.78	1444.0	0.04
α-Humulene	8.94*	1608.0	[0.20]	10.82	1447.4	0.08
allo-Aromadendrene	8.66*	1585.4	[0.10]	10.92*	1454.5	[0.05]
cis-Muurola-4(15),5-diene	8.99	1611.8	0.02	10.92*	1454.5	[0.05]
trans-Cadina-1(6),4-diene	8.94*	1608.0	[0.20]	11.14	1471.2	0.02
γ-Muurolene	9.22*	1630.5	[0.54]	11.17	1473.0	0.05
Germacrene D	9.47*	1651.2	[0.37]	11.20	1475.5	0.02
trans-Muurola-4(15),5-diene	9.51*	1654.9	[0.15]	11.26*	1480.1	[0.18]
β-Selinene	9.51*	1654.9	[0.15]	11.26*	1480.1	[0.18]
Bicyclogermacrene	9.72	1672.0	0.02	11.39*	1489.6	[0.11]
α-Selinene	9.65*	1666.1	[0.09]	11.39*	1489.6	[0.11]
epi-Cubebol	11.65	1838.3	0.02	11.39*	1489.6	[0.11]

α-Muurolene	9.69	1669.6	0.04	11.49	1496.9	0.06
Cubebol	12.21	1888.6	0.03	11.65*	1509.3	[0.08]
γ-Cadinene	10.04*	1698.4	[0.09]	11.65*	1509.3	[0.08]
Zonarene	10.04*	1698.4	[0.09]	11.79*	1520.2	[0.11]
trans-Calamenene	10.87	1769.4	0.02	11.79*	1520.2	[0.11]
δ-Cadinene	10.07*	1700.8	[0.13]	11.79*	1520.2	[0.11]
α-Calacorene	11.75	1846.9	0.01	12.00	1537.0	0.02
Germacrene B	10.80	1763.5	0.03	12.12	1546.6	0.02
Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]				12.36	1564.8	0.02
Caryophyllene oxide isomer	12.32	1898.5	0.02	12.48*	1574.4	[0.18]
Caryophyllene oxide	12.40	1905.4	0.14	12.48*	1574.4	[0.18]
Viridiflorol	13.63	2021.0	0.31	12.62	1585.1	0.31
Humulene epoxide II	12.99	1960.6	0.06	12.81	1600.4	0.06
4,10-diepi-Guaiol	13.96	2052.9	0.02	12.92*	1609.0	[0.04]
1,10-diepi-Cubenol	13.40	1998.9	0.01	12.92*	1609.0	[0.04]
τ-Muurolol	14.68*	2124.4	[0.01]	13.24*	1636.1	[0.07]
τ-Cadinol	14.53	2108.9	0.06	13.24*	1636.1	[0.07]
β-Eudesmol	15.02	2158.6	0.02	13.33	1642.9	0.03
α-Cadinol	15.09	2165.2	0.03	13.37	1646.8	0.02
α-Phellandrene dimer II	12.12	1879.9	0.04	15.04	1787.9	0.04
α-Phellandrene dimer III	12.76	1939.3	0.02	15.21	1803.0	0.02
(3*E*)-Cembrene A	15.20	2175.9	0.04	16.80	1949.2	0.04
para-Camphorene	15.45	2201.8	0.02	17.16	1983.4	0.02
Cembrene C	15.87	2245.5	0.02	17.26	1993.0	0.02
Verticilla-4(20),7,11-triene	16.01	2260.6	0.03	17.33	1998.9	0.03
Cembrenol	19.70	2676.7	0.01	18.59	2124.9	0.02
Incensole	20.24	2742.1	0.02	18.72*	2138.5	[0.11]
Serratol	19.22	2618.3	0.10	18.72*	2138.5	[0.11]
Total reported		97.53%			99.31%	

*: 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