

Date : 2023-11-28

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 23K21-PTH02

Customer Identification : Organic Frankincense Carterii - Somaliland - F00110R

Type : Essential Oil

Source : *Boswellia carteri*

Customer : Plant Therapy

Checked and approved by:

Alexis St-Gelais, Ph. D., Chimiste 2013-174

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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 : Alexis St-Gelais, Ph. D., Chimiste 2013-174

Date : 2023-11-28

PHYSICOCHEMICAL DATA

Refractive index : 1.4739 ± 0.0003 (20 °C)

Method : PC-MAT-016 - Measure of the refractive index of a liquid.

Analyst : Cindy Caron B. Sc.

Date : 2023-11-22

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
2-Methyl-3-buten-2-ol	tr	Aliphatic alcohol
3-Methylfuran	0.01	Furan
(E)-2-Methyl-1,3-pentadiene	0.01	Alkene
3-Methyl-2-butanone	tr	Aliphatic ketone
Toluene	0.05	Simple phenolic
Prenal	0.01	Aliphatic aldehyde
Unknown	tr	Unknown
Unknown	0.02	Alkene
Unknown	0.01	Unknown
Unknown	0.01	Unknown
Hashishene	1.16	Monoterpene
Tricyclene	0.04	Monoterpene
α -Thujene	0.91	Monoterpene
α -Pinene	34.42	Monoterpene
Unknown	0.02	Monoterpene
α -Fenchene	0.03	Monoterpene
Camphene	0.44	Monoterpene
Thuja-2,4(10)-diene	0.31	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.01	Monoterpene
β -Pinene	1.29	Monoterpene
Sabinene	6.00	Monoterpene
Pseudolimonene isomer	0.04	Monoterpene
6-Methyl-5-hepten-2-one	0.02	Aliphatic ketone
Dehydro-1,8-cineole	0.07	Monoterpenic ether
Myrcene	16.19	Monoterpene
2-Carene	0.03	Monoterpene
Pseudolimonene	0.01	Monoterpene
α -Phellandrene	2.55	Monoterpene
Menthatriene isomer I	0.06	Monoterpene
Octanal	0.03	Aliphatic aldehyde
Δ^3 -Carene	0.09	Monoterpene
<i>ortho</i> -Methylanisole	0.13	Simple phenolic
α -Terpinene	0.16	Monoterpene
<i>meta</i> -Cymene	0.02	Monoterpene
<i>para</i> -Cymene	2.82	Monoterpene
β -Phellandrene	0.56	Monoterpene
1,8-Cineole	0.28	Monoterpenic ether
Limonene	13.76	Monoterpene
<i>ortho</i> -Cymene	0.06	Monoterpene
(Z)- β -Ocimene	0.53	Monoterpene

Unknown	0.01	Unknown
(E)- β -Ocimene	0.16	Monoterpene
γ -Terpinene	0.29	Monoterpene
cis-Sabinene hydrate	0.03	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
Octanol	0.04	Aliphatic alcohol
Isoterpinolene	0.01	Monoterpene
Terpinolene	0.09	Monoterpene
para-Cymenene	0.04	Monoterpene
γ -Campholenal	0.04	Aliphatic alcohol
α -Pinene oxide	0.02	Monoterpenic ether
6,7-Epoxyborneol	0.05	Monoterpenic ether
trans-Sabinene hydrate	0.02	Monoterpenic alcohol
Perillene	0.15	Monoterpenic ether
Linalool	0.20	Monoterpenic alcohol
Isoamyl 2-methylbutyrate	0.03	Aliphatic ester
Verbenol analog?	0.03	Monoterpenic alcohol
Octen-3-yl acetate	0.02	Aliphatic ester
trans-para-Mentha-2,8-dien-1-ol	0.05	Monoterpenic alcohol
α -Campholenal	0.19	Monoterpenic aldehyde
Myrcenol	0.10	Monoterpenic alcohol
cis-Limonene oxide	0.01	Monoterpenic ether
allo-Ocimene	0.02	Monoterpene
trans-Pinocarveol	0.28	Monoterpenic alcohol
trans-Limonene oxide	0.01	Monoterpenic ether
cis-Verbenol	0.20	Monoterpenic alcohol
trans-Sabinol	tr	Monoterpenic alcohol
trans-Verbenol	0.40	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.08	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Unknown	0.03	Oxygenated monoterpene
Pinocarpone	0.03	Monoterpenic ketone
Borneol	0.05	Monoterpenic alcohol
α -Phellandren-8-ol	0.14	Monoterpenic alcohol
Isopinocampone	0.05	Monoterpenic ketone
Terpinen-4-ol	0.32	Monoterpenic alcohol
Thuj-3-en-10-al	0.04	Monoterpenic aldehyde
para-Cymen-8-ol	0.05	Monoterpenic alcohol
trans-Isocarveol	0.03	Monoterpenic alcohol
Myrtenal	0.05	Monoterpenic aldehyde
α -Terpineol	0.19	Monoterpenic alcohol
cis-Piperitol	0.02	Monoterpenic alcohol
Myrtenol	0.10	Monoterpenic alcohol
trans-Isopiperitenol	0.02	Monoterpenic alcohol
cis- α -Phellandrene epoxide (iPr vs Me)	0.06	Monoterpenic ether

Verbenone	0.16	Monoterpenic ketone
<i>trans</i> -Carveol	0.09	Monoterpenic alcohol
<i>cis</i> -Carveol	0.03	Monoterpenic alcohol
Cuminal	0.03	Monoterpenic aldehyde
Carvone	0.08	Monoterpenic ketone
Carvotanacetone	0.01	Monoterpenic ketone
Unknown	0.07	Unknown
3,5-Dimethoxytoluene	0.12	Simple phenolic
Unknown	0.03	Oxygenated monoterpene
Bornyl acetate	0.16	Monoterpenic ester
Thymol	0.01	Monoterpenic alcohol
<i>para</i> -Menth-5-en-1,2-diol isomer II	0.01	Monoterpenic alcohol
δ -Elemene	0.03	Sesquiterpene
α -Terpinyl acetate	0.05	Monoterpenic ester
α -Cubebene	0.15	Sesquiterpene
Eugenol	0.03	Phenylpropanoid
Cyclosativene II	0.06	Sesquiterpene
α -Ylangene	0.04	Sesquiterpene
α -Copaene	0.56	Sesquiterpene
β -Bourbonene	0.46	Sesquiterpene
1,5-diepi- β -Bourbonene	0.04	Sesquiterpene
<i>cis</i> - β -Elemene	0.02	Sesquiterpene
β -Cubebene	0.08	Sesquiterpene
β -Elemene	0.49	Sesquiterpene
Isocaryophyllene	0.08	Sesquiterpene
α -Gurjunene	0.16	Sesquiterpene
β -Caryophyllene	3.92	Sesquiterpene
β -Copaene	0.08	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.09	Sesquiterpene
6,9-Guaiadiene	0.17	Sesquiterpene
Unknown	0.05	Sesquiterpene
<i>trans</i> -Muurola-3,5-diene	0.06	Sesquiterpene
α -Humulene	0.61	Sesquiterpene
allo-Aromadendrene	0.16	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.04	Sesquiterpene
γ -Muurolene	0.23	Sesquiterpene
Germacrene D	0.57	Sesquiterpene
β -Selinene	0.25	Sesquiterpene
<i>trans</i> -Muurola-4(15),5-diene	0.08	Sesquiterpene
α -Selinene	0.17	Sesquiterpene
epi-Cubebol	0.10	Sesquiterpenic alcohol
Bicyclogermacrene	0.13	Sesquiterpene
α -Muurolene	0.14	Sesquiterpene
Germacrene A	0.04	Sesquiterpene
δ -Amorphene	0.02	Sesquiterpene

γ -Cadinene	0.18	Sesquiterpene
Cubebol	0.26	Sesquiterpenic alcohol
<i>trans</i> -Calamenene	0.02	Sesquiterpene
δ -Cadinene	0.40	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.03	Sesquiterpene
α -Cadinene	0.02	Sesquiterpene
Isocaryophyllene epoxide B	0.02	Sesquiterpenic ether
α -Elemol	0.01	Sesquiterpenic alcohol
Germacrene B	0.06	Sesquiterpene
Gynurenol	0.02	Sesquiterpenic alcohol
Unknown	0.02	Oxygenated sesquiterpene
Germacrene D-4-ol	0.07	Sesquiterpenic alcohol
Caryophyllene oxide	0.30	Sesquiterpenic ether
Caryophyllene oxide isomer	0.03	Sesquiterpenic ether
Viridiflorol	0.71	Sesquiterpenic alcohol
Copaborneol	0.07	Sesquiterpenic alcohol
Humulene epoxide II	0.04	Sesquiterpenic ether
Unknown	0.05	Sesquiterpenic alcohol
10- <i>epi</i> -Cubebol	0.02	Sesquiterpenic alcohol
1- <i>epi</i> -Cubebol	0.02	Sesquiterpenic alcohol
τ -Cadinol	0.08	Sesquiterpenic alcohol
τ -Muurolol	0.02	Sesquiterpenic alcohol
β -Eudesmol	0.02	Sesquiterpenic alcohol
α -Muurolol	0.03	Sesquiterpenic alcohol
α -Cadinol	0.01	Sesquiterpenic alcohol
(3 <i>Z</i>)-Caryophylla-3,8(13)-dien-5 β -ol	0.02	Sesquiterpenic alcohol
Shyobunol	0.03	Sesquiterpenic alcohol
α -Phellandrene dimer II	0.04	Diterpene
α -Phellandrene dimer III	0.03	Diterpene
Unknown	0.01	Unknown
(3 <i>E</i>)-Cembrene A	0.10	Diterpene
<i>meta</i> -Camphorene	0.02	Diterpene
<i>para</i> -Camphorene	0.01	Diterpene
Cembrene C	0.02	Diterpene
Cembrenol	0.05	Diterpenic alcohol
Incensole	0.02	Diterpenic alcohol
Serratol	0.48	Diterpenic alcohol
Consolidated total	99.30	

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

Note: no correction factor was applied

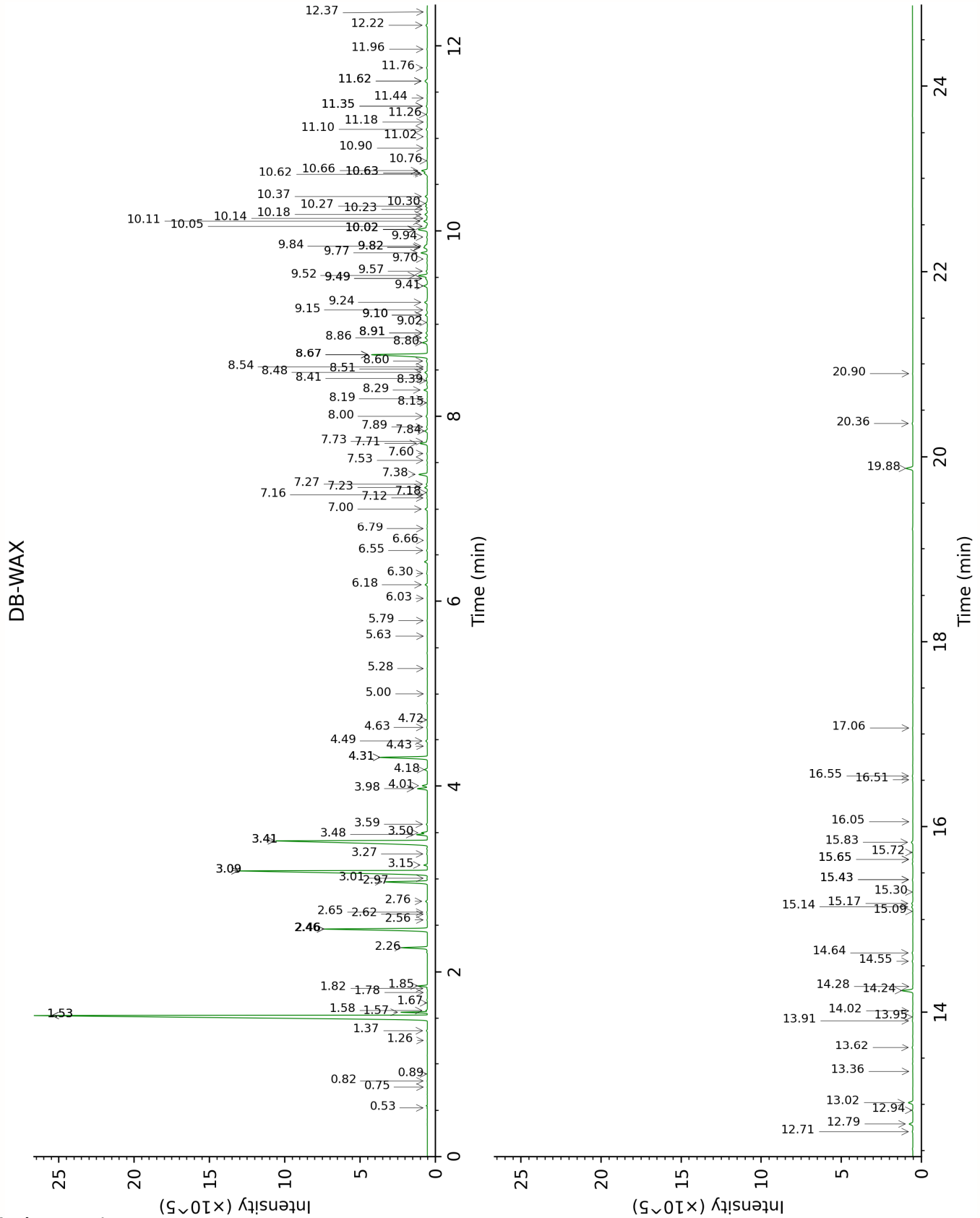
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

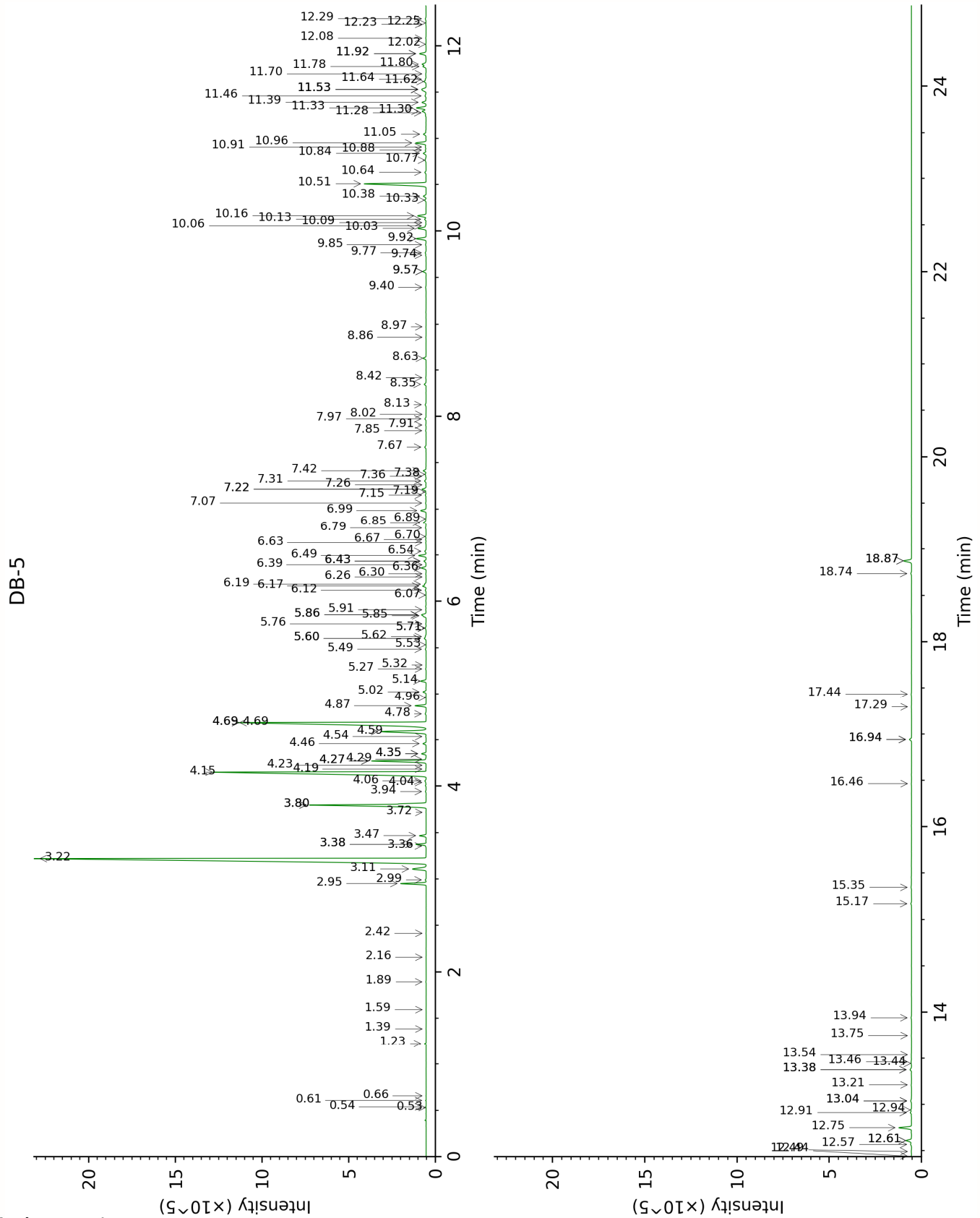
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is

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.

This page was intentionally left blank. The following pages present the complete data of the analysis.





FULL ANALYSIS DATA

2-Methyl-3-buten-2-ol	Column DB-WAX			Column DB-5		
	1.67	1010.7	tr	0.53	602.3	tr
3-Methylfuran	0.75	856.8	tr	0.54	607.6	0.01
(E)-2-Methyl-1,3-pentadiene	0.53	759.6	0.01	0.61	630.4	0.01
3-Methyl-2-butanone	0.89	901.4	tr	0.66	647.2	tr
Toluene	1.58	1002.9	0.06	1.23	759.9	0.05
Prenal	3.41*	1159.8	[13.77]	1.39	781.9	0.01
Unknown BORI VI [m/z 109, 67 (39), 81 (14), 41 (14), 55 (10), 110 (9)... 124 (6)]				1.59	808.6	tr
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.82	879.1	0.01	1.89	833.0	0.02
Unknown PRME II [m/z 109, 43 (28), 124 (28), 41 (14), 55 (11), 79 (9), 81 (8)...]	1.78	1021.2	0.01	2.16	854.8	0.01
Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	1.26	957.1	0.01	2.42	875.8	0.01
Hashishene	1.53*	997.7	[35.55]	2.95	916.9	1.16
Tricyclene	1.37	972.9	0.05	2.99	919.5	0.04
α -Thujene	1.57	1001.2	0.91	3.11	927.2	0.91
α -Pinene	1.53*	997.7	[35.55]	3.22	934.5	34.42
Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)]	2.56	1094.9	0.02	3.36	943.4	0.02
α -Fenchene	1.82	1025.3	0.03	3.38*	944.6	[0.45]
Camphene	1.85	1027.9	0.44	3.38*	944.6	[0.45]
Thuja-2,4(10)-diene	2.46*	1085.7	[6.32]	3.47	950.8	0.31
3,7,7-Trimethylcyclohepta-1,3,5-triene	3.09*	1135.4	[16.24]	3.72	967.2	0.01
β -Pinene	2.26	1066.8	1.29	3.80*	972.4	[7.29]
Sabinene	2.46*	1085.7	[6.32]	3.80*	972.4	[7.29]
Pseudolimonene isomer	2.64	1101.7	0.03	3.94	981.9	0.04
6-Methyl-5-hepten-	5.28	1293.8	0.01	4.04	988.3	0.02

2-one						
Dehydro-1,8-cineole	3.27	1149.1	0.04	4.06	989.5	0.07
Myrcene	3.09*	1135.4	[16.24]	4.15	995.7	16.19
2-Carene	2.62	1100.0	0.02	4.19	997.8	0.03
Pseudolimonene	3.01	1129.3	0.02	4.23	1000.5	0.01
α -Phellandrene	2.97	1126.4	2.55	4.27*	1003.6	[2.63]
Menthatriene isomer I	3.59	1173.3	0.06	4.27*	1003.6	[2.63]
Octanal	4.72	1254.2	0.02	4.29	1004.8	0.03
Δ 3-Carene	2.76	1110.6	0.09	4.35*	1008.5	[0.22]
<i>ortho</i> -Methylanisole	6.18	1361.0	0.13	4.35*	1008.5	[0.22]
α -Terpinene	3.15	1140.1	0.16	4.46	1015.3	0.16
<i>meta</i> -Cymene	4.31*	1225.7	[2.80]	4.54	1020.0	0.02
<i>para</i> -Cymene	4.31*	1225.7	[2.80]	4.59	1023.4	2.82
β -Phellandrene	3.48	1164.9	0.56	4.69*	1029.4	[14.61]
1,8-Cineole	3.50	1166.4	0.28	4.69*	1029.4	[14.61]
Limonene	3.41*	1159.8	[13.77]	4.69*	1029.4	[14.61]
<i>ortho</i> -Cymene				4.78	1035.3	0.06
(Z)- β -Ocimene	3.98	1201.9	0.53	4.87	1040.8	0.53
Unknown BOFR III [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...]	7.53	1458.5	0.03	4.96	1046.4	0.01
(E)- β -Ocimene	4.18	1216.4	0.16	5.02	1050.4	0.16
γ -Terpinene	4.01	1204.1	0.29	5.14	1057.8	0.29
<i>cis</i> -Sabinene hydrate	7.12	1428.8	0.03	5.27	1065.9	0.03
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.00	1274.5	0.01	5.32	1068.6	0.01
Octanol	8.39	1522.5	0.04	5.48	1079.2	0.04
Isoterpinolene	4.43	1234.2	0.01	5.53	1082.1	0.01
Terpinolene	4.49	1238.2	0.09	5.60*	1086.5	[0.13]
<i>para</i> -Cymenene	6.55	1387.1	0.04	5.60*	1086.5	[0.13]
γ -Campholenal				5.62	1087.7	0.04
α -Pinene oxide	5.63	1321.7	0.02	5.71*	1093.4	[0.06]
6,7-Epoxy-myrcene	6.30	1369.6	0.05	5.71*	1093.4	[0.06]
<i>trans</i> -Sabinene hydrate	8.19	1507.5	0.02	5.76	1096.2	0.02
Perillene				5.85*†	1101.7	[0.13]
Linalool	8.29	1514.9	0.20	5.86*†	1102.3	[0.25]
Isoamyl 2-	4.64	1248.5	0.03	5.86*†	1102.3	[0.25]

methylbutyrate						
Verbenol analog?	8.51	1532.0	0.02	5.91	1105.7	0.03
Octen-3-yl acetate	6.03	1350.5	0.02	6.07	1115.8	0.02
<i>trans-para</i> -Mentha-2,8-dien-1-ol	9.15	1581.3	0.05	6.12	1119.1	0.05
α -Campholenal	7.23	1437.0	0.16	6.17	1122.0	0.19
Myrcenol	9.10*	1577.1	[0.12]	6.19	1123.3	0.10
<i>cis</i> -Limonene oxide	6.66	1394.8	0.01	6.26	1128.2	0.01
allo-Ocimene	5.79	1333.6	0.02	6.30	1130.4	0.02
<i>trans</i> -Pinocarveol	9.41	1601.4	0.25	6.36	1134.5	0.28
<i>trans</i> -Limonene oxide	6.78	1404.0	0.02	6.40	1136.6	0.01
<i>cis</i> -Verbenol	9.49*	1607.8	[0.12]	6.43*	1139.1	[0.13]
<i>trans</i> -Sabinol	10.02*	1649.9	[0.75]	6.43*	1139.1	[0.13]
<i>trans</i> -Verbenol	9.77	1629.9	0.42	6.49	1142.9	0.40
<i>meta</i> -Mentha-4,6-dien-8-ol	9.57	1614.1	0.08	6.54	1145.9	0.08
Unknown BOSE IV [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)]				6.63	1151.7	0.03
Unknown BOCA III [m/z 97, 81 (96), 109 (80), 43 (53), 53 (40), 41 (36), 56 (29), 95 (25)... 152 (1)]	7.73	1473.4	0.05	6.67	1153.9	0.03
Pinocarvone	8.15	1504.3	0.02	6.70	1156.0	0.03
Borneol	10.02*	1649.9	[0.75]	6.79	1162.0	0.05
α -Phellandren-8-ol	10.37	1678.3	0.14	6.85*†	1165.9	[0.18]
Isopinocampone	7.89	1484.9	0.05	6.90*†	1168.4	[0.02]
Terpinen-4-ol	8.80	1554.5	0.31	6.99	1174.2	0.32
Thuj-3-en-10-al	8.91*	1562.5	[0.09]	7.07	1179.4	0.04
<i>para</i> -Cymen-8-ol	11.76	1794.8	0.05	7.15	1184.8	0.05
<i>trans</i> -Isocarveol	11.18	1745.6	0.01	7.19	1187.0	0.03
Myrtenal	8.91*	1562.5	[0.09]	7.22*	1188.9	[0.24]
α -Terpineol	10.02*	1649.9	[0.75]	7.22*	1188.9	[0.24]
<i>cis</i> -Piperitol	9.82*	1634.5	[0.27]	7.26	1191.8	0.02
Myrtenol	11.10	1739.0	0.07	7.31	1194.5	0.10
<i>trans</i> -Isopiperitenol	10.62	1698.2	0.05	7.36	1197.8	0.02
<i>cis</i> - α -Phellandrene epoxide (iPr vs Me)	11.26	1752.4	0.07	7.38	1199.1	0.06
Verbenone	9.84	1635.7	0.15	7.42	1201.5	0.16
<i>trans</i> -Carveol	11.62*	1782.7	[0.20]	7.67	1218.4	0.09
<i>cis</i> -Carveol	11.96	1812.3	0.03	7.85	1230.2	0.03
Cuminal	10.76	1710.5	0.04	7.91	1234.3	0.03
Carvone	10.23	1667.2	0.08	7.98	1238.7	0.08

Carvotanacetone	9.70	1624.5	0.03	8.02	1241.9	0.01
Unknown CALU IV [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	11.35*	1759.9	[0.08]	8.13	1248.9	0.07
3,5- Dimethoxytoluene	11.62*	1782.7	[0.20]	8.35	1263.5	0.12
Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]				8.42	1268.3	0.03
Bornyl acetate	8.48	1529.4	0.18	8.63	1282.3	0.16
Thymol	15.43*	2134.5	[0.04]	8.86	1297.8	0.01
<i>para</i> -Menth-5-en- 1,2-diol isomer II	14.64	2057.2	0.06	8.97	1305.3	0.01
δ -Elemene	7.16	1431.3	0.03	9.40	1335.2	0.03
α -Terpinyl acetate	9.94	1643.4	0.05	9.57*	1347.1	[0.19]
α -Cubebene	7.00	1420.0	0.15	9.57*	1347.1	[0.19]
Eugenol	15.09	2100.5	0.01	9.74	1359.3	0.03
Cyclosativene II	7.18	1433.0	0.04	9.77	1361.2	0.06
α -Ylangene	7.27	1439.6	0.08	9.85	1367.3	0.04
α -Copaene	7.38	1447.4	0.56	9.92	1371.9	0.56
β -Bourbonene	7.71	1471.8	0.47	10.03	1379.7	0.46
1,5-diepi- β - Bourbonene	7.60	1463.8	0.04	10.06	1381.5	0.04
<i>cis</i> - β -Elemene	8.54	1533.9	0.02	10.09	1384.0	0.02
β -Cubebene	8.00	1493.2	0.10	10.13	1386.5	0.08
β -Elemene	8.67*	1544.0	[4.40]	10.16	1389.1	0.49
Isocaryophyllene	8.41	1524.3	0.08	10.33	1401.0	0.08
α -Gurjunene	7.84	1481.6	0.17	10.38	1404.0	0.16
β -Caryophyllene	8.67*	1544.0	[4.40]	10.51	1413.8	3.92
β -Copaene	8.60	1538.7	0.08	10.64	1423.5	0.08
<i>trans</i> - α - Bergamotene	8.67*	1544.0	[4.40]	10.77	1433.2	0.09
6,9-Guaiadiene	8.86	1558.5	0.15	10.84	1438.7	0.17
Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	9.02	1571.0	0.03	10.88	1441.3	0.05
<i>trans</i> -Muurola-3,5- diene	9.10*	1577.1	[0.12]	10.91	1443.8	0.06
α -Humulene	9.52	1610.3	0.62	10.96	1447.0	0.61
allo-Aromadendrene	9.24	1587.6	0.20	11.05	1454.0	0.16
<i>trans</i> -Cadina-1(6),4- diene	9.49*	1607.8	[0.12]	11.28	1471.2	0.04

γ-Muurolene	9.82*	1634.5	[0.27]	11.30	1472.4	0.23
Germacrene D	10.02*	1649.9	[0.75]	11.33	1475.1	0.57
β-Selinene	10.11	1657.1	0.24	11.39	1479.5	0.25
<i>trans</i> -Muurola-4(15),5-diene	10.05	1652.7	0.08	11.46	1484.7	0.08
α-Selinene	10.18	1663.0	0.17	11.53*	1489.9	[0.40]
epi-Cubebol	12.22	1835.0	0.10	11.53*	1489.9	[0.40]
Bicyclogermacrene	10.30	1672.4	0.13	11.53*	1489.9	[0.40]
α-Muurolene	10.27	1670.0	0.12	11.62	1496.2	0.14
Germacrene A	10.63*	1699.5	[0.22]	11.64	1498.0	0.04
δ-Amorphene	10.14	1659.5	0.04	11.70	1502.3	0.02
γ-Cadinene	10.63*	1699.5	[0.22]	11.78	1508.4	0.18
Cubebol	12.79	1884.8	0.24	11.80	1510.4	0.26
<i>trans</i> -Calamenene	11.44	1767.3	0.02	11.92*	1519.2	[0.42]
δ-Cadinene	10.66	1701.7	0.40	11.92*	1519.2	[0.42]
<i>trans</i> -Cadina-1,4-diene	10.90	1721.9	0.02	12.02	1527.2	0.03
α-Cadinene	11.02	1732.4	0.02	12.08	1532.2	0.02
Isocaryophyllene epoxide B	12.37	1847.6	0.03	12.23	1544.0	0.02
α-Elemol	14.28	2022.5	0.01	12.25	1545.1	0.01
Germacrene B	11.35*	1759.9	[0.08]	12.29	1548.7	0.06
Gynurenol				12.44	1560.2	0.02
Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]				12.49	1564.3	0.02
Germacrene D-4-ol	13.91	1987.3	0.04	12.57	1570.3	0.07
Caryophyllene oxide	13.02	1905.7	0.30	12.61*	1573.6	[0.33]
Caryophyllene oxide isomer	12.94	1898.1	0.03	12.61*	1573.6	[0.33]
Viridiflorol	14.24	2018.4	0.69	12.75	1584.5	0.71
Copaborneol	15.17	2108.9	0.08	12.91	1597.2	0.07
Humulene epoxide II	13.62	1960.3	0.05	12.94	1599.4	0.04
Unknown BOCA XV [m/z 161, 189 (76), 204 (66), 105 (60), 119 (46), 107 (41), 59 (38)...222 (3)]	14.55	2048.6	0.05	13.04*	1607.2	[0.07]
10-epi-Cubenol	13.95	1991.2	0.02	13.04*	1607.2	[0.07]
1-epi-Cubenol	14.02	1997.4	0.02	13.21	1621.5	0.02
τ-Cadinol	15.14	2105.2	0.08	13.38*	1635.1	[0.10]
τ-Muurolol	15.30	2121.2	0.02	13.38*	1635.1	[0.10]
β-Eudesmol	15.65*	2156.2	[0.03]	13.44	1640.6	0.02
α-Muurolol	15.43*	2134.5	[0.04]	13.46	1642.1	0.03

α -Cadinol	15.72	2163.8	0.02	13.54	1648.4	0.01
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	17.06	2302.4	0.02	13.75	1665.9	0.02
Shyobunol	16.55	2248.2	0.04	13.94	1681.8	0.03
α -Phellandrene dimer II	12.71	1877.5	0.04	15.17	1787.1	0.04
α -Phellandrene dimer III	13.36	1936.6	0.02	15.35	1802.3	0.03
Unknown BOCA X [m/z 43, 81 (45), 137 (39), 71 (39), 93 (33), 95 (32)...]				16.46	1903.8	0.01
(3E)-Cembrene A	15.83	2174.7	0.10	16.94*	1949.0	[0.12]
<i>meta</i> -Camphorene	15.65*	2156.2	[0.03]	16.94*	1949.0	[0.12]
<i>para</i> -Camphorene	16.05	2197.1	0.01	17.29	1982.5	0.01
Cembrene C	16.51	2244.0	0.02	17.44	1996.0	0.02
Cembrenol	20.36	2677.6	0.05	18.74	2125.5	0.05
Incensole	20.90	2744.0	0.02	18.87*	2139.8	[0.49]
Serratol	19.88	2619.7	0.48	18.87*	2139.8	[0.49]
Total reported		98.54%			99.24%	

*: 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