

Date : 2026-02-23

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 26A19-PTH13

Customer Identification : Spruce, Black - Canada - SA5113R

Type : Essential Oil

Source : *Picea mariana*

Customer : Plant Therapy

Checked and approved by:

Sylvain Mercier, M. Sc., Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update of the version first issued on 2026-01-21 to make a correction in the sample identification section.



Laboratoire
PhytoChemia

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 : Jean-Christophe Fortin, M. Sc.

Date : 2026-01-21

PHYSICOCHEMICAL DATA

Refractive index : 1.4705 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2026-01-20

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
Toluene	0.01	Simple phenolic
Hexanal	tr	Aliphatic aldehyde
Octane	tr	Alkane
(3Z)-Hexenol	0.03	Aliphatic alcohol
Hexanol	0.01	Aliphatic alcohol
Santene	1.58	Normonoterpene
Unknown	0.03	Normonoterpene
Bornylene	0.02	Monoterpene
Tricyclene	1.73	Monoterpene
α -Thujene	0.11	Monoterpene
α -Pinene	19.70	Monoterpene
Camphene	12.44	Monoterpene
α -Fenchene	0.15	Monoterpene
Thuja-2,4(10)-diene	0.02	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.03	Monoterpene
β -Pinene	9.74	Monoterpene
Sabinene	0.17	Monoterpene
Myrcene	1.55	Monoterpene
2-Carene	0.02	Monoterpene
α -Phellandrene	0.14	Monoterpene
Pseudolimonene	0.01	Monoterpene
Unknown	0.02	Oxygenated monoterpene
Δ^3 -Carene	9.08	Monoterpene
(3Z)-Hexenyl acetate	0.06	Aliphatic ester
α -Terpinene	0.18	Monoterpene
<i>meta</i> -Cymene	0.02	Monoterpene
Carvomenthene	0.02	Aliphatic alcohol
<i>para</i> -Cymene	0.30	Monoterpene
β -Phellandrene	0.47	Monoterpene
1,8-Cineole	0.24	Monoterpenic ether
Limonene	6.14	Monoterpene
(Z)- β -Ocimene	0.02	Monoterpene
(E)- β -Ocimene	0.02	Monoterpene
γ -Terpinene	0.12	Monoterpene
Unknown	0.04	Oxygenated monoterpene
Unknown	0.01	Unknown
<i>meta</i> -Cymenene	0.02	Monoterpene
Fenchone	0.01	Monoterpenic ketone
Isoterpinolene	0.02	Monoterpene
γ -Campholenal	0.05	Aliphatic alcohol

<i>para</i> -Cymenene	0.07	Monoterpene
Terpinolene	0.85	Monoterpene
α -Pinene oxide	0.02	Monoterpenic ether
2-Nonanone	0.01	Aliphatic ketone
Unknown	0.04	Unknown
Linalool	0.26	Monoterpenic alcohol
Nonanal	0.01	Aliphatic aldehyde
endo-Fenchol	0.04	Monoterpenic alcohol
3-Methyl-3-butenyl isovalerate	0.01	Aliphatic ester
<i>cis-para</i> -Menth-2-en-1-ol	0.01	Monoterpenic alcohol
α -Campholenal	0.04	Monoterpenic aldehyde
<i>trans</i> -Pinocarveol	0.08	Monoterpenic alcohol
<i>trans-para</i> -Menth-2-en-1-ol	0.02	Monoterpenic alcohol
Camphor	0.04	Monoterpenic ketone
Camphene hydrate	0.19	Monoterpenic alcohol
<i>meta</i> -Mentha-4,6-dien-8-ol	0.03	Monoterpenic alcohol
Isoborneol	0.02	Monoterpenic alcohol
Citronellal	0.01	Monoterpenic aldehyde
Pinocamphone	0.02	Monoterpenic ketone
Pinocarvone	0.02	Monoterpenic ketone
Borneol	1.11	Monoterpenic alcohol
Unknown	0.02	Unknown
α -Phellandren-8-ol	0.02	Monoterpenic alcohol
Isopinocamphone	0.01	Monoterpenic ketone
Terpinen-4-ol	0.18	Monoterpenic alcohol
<i>meta</i> -Cymen-8-ol	0.01	Monoterpenic alcohol
Cryptone	0.06	Normoterpenic ketone
<i>para</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
<i>trans</i> -Isocarveol	0.01	Monoterpenic alcohol
α -Terpineol	0.70	Monoterpenic alcohol
Myrtenal	0.02	Monoterpenic aldehyde
Myrtenol	0.03	Monoterpenic alcohol
Methylchavicol	0.01	Phenylpropanoid
Verbenone	0.05	Monoterpenic ketone
Unknown	0.04	Unknown
<i>trans</i> -Carveol	0.03	Monoterpenic alcohol
endo-Fenchyl acetate	0.16	Monoterpenic ester
Citronellol	0.07	Monoterpenic alcohol
Thymol methyl ether	0.03	Monoterpenic ether
Carvone	0.01	Monoterpenic ketone
Piperitone	0.02	Monoterpenic ketone
Geraniol	0.04	Monoterpenic alcohol
Geranial	0.01	Monoterpenic aldehyde
Unknown	0.02	Unknown
<i>trans</i> -Verbenyl acetate	0.05	Monoterpenic ester

Bornyl acetate	26.19	Monoterpenic ester
Isobornyl acetate	0.51	Monoterpenic ester
Unknown	0.03	Unknown
2-Undecanone	0.05	Aliphatic ketone
Unknown	0.05	Monoterpenic ester
<i>trans</i> -Pinocarvyl acetate	0.07	Monoterpenic ester
Car-3-en-5-one	0.05	Monoterpenic ketone
(2 <i>E</i> ,4 <i>E</i>)-Decadienal	0.02	Aliphatic aldehyde
Myrtenyl acetate	0.02	Monoterpenic ester
Terpinyl acetate analog	0.01	Monoterpenic ester
Citronellic acid	0.05	Monoterpenic acid
<i>trans</i> -Carvyl acetate	0.02	Monoterpenic ester
Unknown	0.05	Unknown
α -Longipinene	0.02	Sesquiterpene
α -Cubebene	0.01	Sesquiterpene
α -Terpinyl acetate	0.04	Monoterpenic ester
Citronellyl acetate	0.06	Monoterpenic ester
Longicyclene	0.01	Sesquiterpene
Unknown	0.07	Oxygenated monoterpene
α -Copaene	0.03	Sesquiterpene
Geranyl acetate	0.25	Monoterpenic ester
β -Elemene	0.08	Sesquiterpene
Longifolene	0.08	Sesquiterpene
β -Caryophyllene	0.14	Sesquiterpene
β -Copaene	0.01	Sesquiterpene
<i>trans</i> -Muurolo-3,5-diene	0.01	Sesquiterpene
α -Humulene	0.04	Sesquiterpene
Unknown	0.02	Unknown
(<i>E</i>)- β -Farnesene	0.04	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.06	Sesquiterpene
γ -Muurolole	0.11	Sesquiterpene
Germacrene D	0.06	Sesquiterpene
β -Selinene	0.04	Sesquiterpene
<i>trans</i> -Muurolo-4(15),5-diene	0.01	Sesquiterpene
α -Selinene	0.03	Sesquiterpene
Bicyclogermacrene	0.02	Sesquiterpene
α -Muurolole	0.24	Sesquiterpene
γ -Cadinene	0.31	Sesquiterpene
Cubebol	0.02	Sesquiterpenic alcohol
<i>trans</i> -Calamenene	0.09	Sesquiterpene
δ -Cadinene	0.93	Sesquiterpene
Zonarene	0.05	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.03	Sesquiterpene
α -Cadinene	0.07	Sesquiterpene
α -Calacorene	0.02	Sesquiterpene

(E)- α -Bisabolene	0.10	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
(E)-Nerolidol	0.01	Sesquiterpenic alcohol
Spathulenol	0.01	Sesquiterpenic alcohol
Caryophyllene oxide	0.02	Sesquiterpenic ether
Globulol	0.03	Sesquiterpenic alcohol
1,10-diepi-Cubenol	0.02	Sesquiterpenic alcohol
Unknown	0.01	Unknown
1-epi-Cubenol	0.03	Sesquiterpenic alcohol
τ -Cadinol	0.11	Sesquiterpenic alcohol
Cubenol	0.03	Sesquiterpenic alcohol
τ -Muurolol	0.09	Sesquiterpenic alcohol
α -Muurolol	0.05	Sesquiterpenic alcohol
α -Cadinol	0.19	Sesquiterpenic alcohol
Unknown	0.02	Oxygenated sesquiterpene
Amorpha-4,9-dien-2-ol	0.02	Sesquiterpenic alcohol
(5Z)-Tetradecen-14-olide?	0.02	Aliphatic lactone
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
meta-Camphorene	0.01	Diterpene
Unknown	0.02	Oxygenated diterpene
Manool	0.02	Diterpenic alcohol
(Z)-Abienol	0.02	Diterpenic alcohol
Consolidated total	99.89	

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

Note: no correction factor was applied

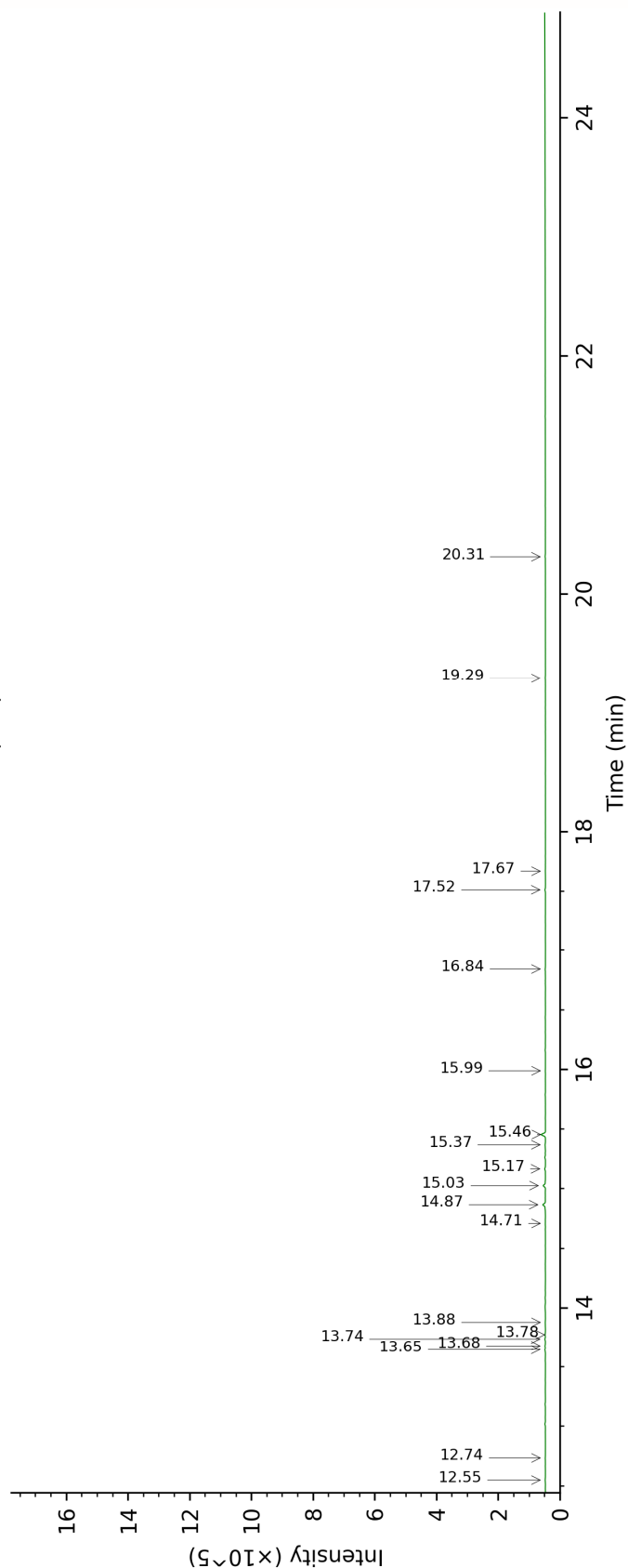
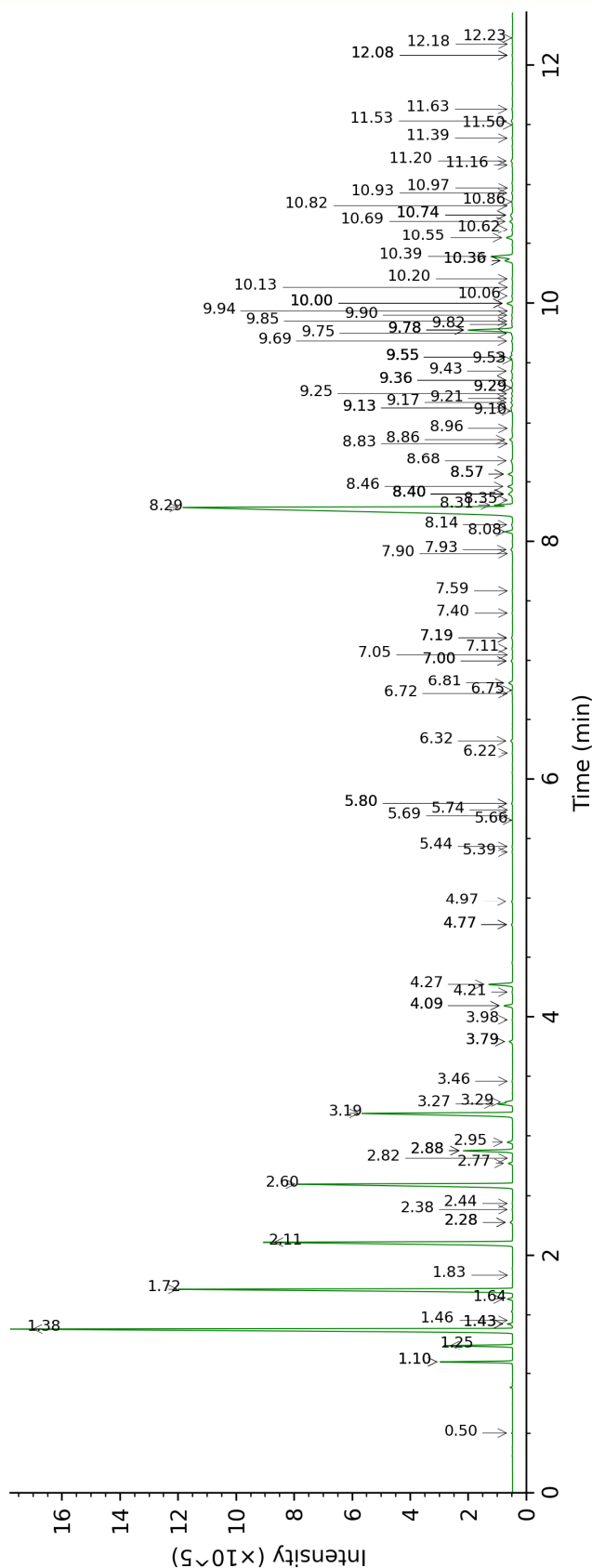
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

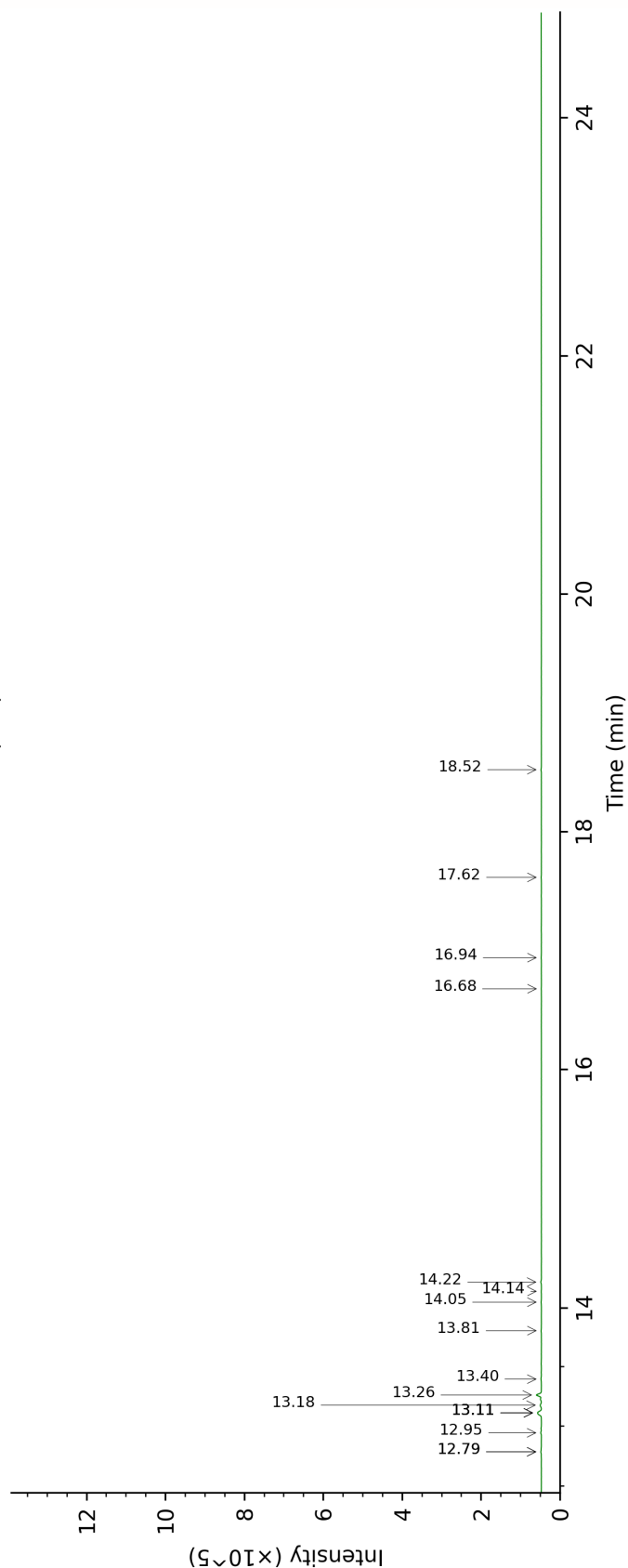
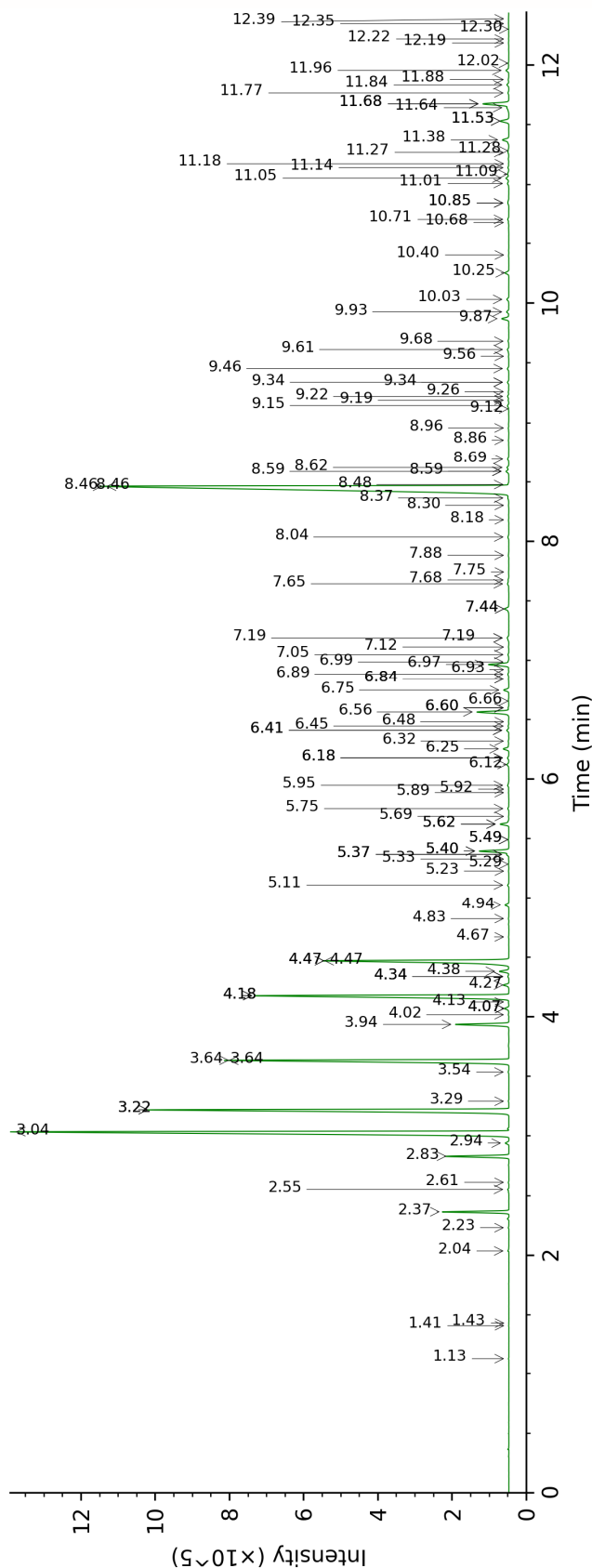
Bracketed value ([xx]): A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

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DB-WAX



DB-5



FULL ANALYSIS DATA

Toluene	Column DB-WAX			Column DB-5		
	1.46	1003.6	0.01	1.13	759.0	0.01
Hexanal	1.84	1041.0	tr	1.41	800.5	tr
Octane	0.50	785.2	0.01	1.43	803.7	tr
(3Z)-Hexenol	5.80*	1350.6	[0.04]	2.04	855.5	0.03
Hexanol	5.44	1324.8	0.02	2.23	872.1	0.01
Santene	1.10*	949.0	[1.59]	2.37	883.4	1.58
Unknown ABBA I [m/z 79, 93 (66), 94 (52), 91 (39), 77 (37), 122 (31)]	1.43*	1000.7	[0.14]	2.55	899.4	0.03
Bornylene	1.10*	949.0	[1.59]	2.61	904.4	0.02
Tricyclene	1.24	972.5	1.75	2.83	919.1	1.73
α-Thujene	1.43*	1000.7	[0.14]	2.94	926.5	0.11
α-Pinene	1.38	995.1	19.59	3.04	932.9	19.70
Camphene	1.72	1029.4	12.44	3.22*	945.3	[12.60]
α-Fenchene	1.64	1021.2	0.15	3.22*	945.3	[12.60]
Thuja-2,4(10)-diene	2.28*	1084.9	[0.08]	3.29	950.1	0.02
3,7,7- Trimethylcyclohepta- 1,3,5-triene	2.88*	1135.0	[1.54]	3.54	966.6	0.03
β-Pinene	2.11	1068.4	9.74	3.64*	973.2	[9.90]
Sabinene	2.28*	1084.9	[0.08]	3.64*	973.2	[9.90]
Myrcene	2.88*	1135.0	[1.54]	3.94	993.5	1.55
2-Carene	2.38	1095.6	0.02	4.02	999.0	0.02
α-Phellandrene	2.77	1126.6	0.14	4.07*	1002.5	[0.15]
Pseudolimonene	2.82	1130.0	0.01	4.07*	1002.5	[0.15]
Unknown PIMA 12 [m/z 109, 81 (35), 43 (34), 69 (33), 67 (29), 152 (29)]	3.46	1180.7	0.02	4.13	1006.1	0.02
Δ3-Carene	2.60	1113.0	9.08	4.18*	1009.5	[9.14]
(3Z)-Hexenyl acetate	4.77*	1278.4	[0.04]	4.18*	1009.5	[9.14]
α-Terpinene	2.95	1140.5	0.17	4.27	1015.1	0.18
meta-Cymene	4.09*	1228.5	[0.30]	4.34*	1019.6	[0.04]
Carvomenthene	2.44	1100.3	0.02	4.34*	1019.6	[0.04]
para-Cymene	4.09*	1228.5	[0.30]	4.38	1022.5	0.30
β-Phellandrene	3.27	1165.7	0.47	4.47*	1028.1	[6.90]
1,8-Cineole	3.29	1167.0	0.24	4.47*	1028.1	[6.90]
Limonene	3.19	1159.5	6.14	4.47*	1028.1	[6.90]
(Z)-β-Ocimene	3.79*	1206.4	[0.13]	4.67	1040.8	0.02
(E)-β-Ocimene	3.98	1219.8	0.02	4.82	1050.6	0.02
γ-Terpinene	3.79*	1206.4	[0.13]	4.94	1057.9	0.12
Unknown PIMA I	4.77*	1278.4	[0.04]	5.11	1069.0	0.04

[m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]						
Unknown PIMA 2 [m/z 94, 79 (74), 67 (33), 41 (22), 95 (21)...]				5.23	1076.5	0.01
<i>meta</i> -Cymenene	6.22	1381.0	0.02	5.29	1080.2	0.02
Fenchone	5.69	1343.3	0.01	5.33	1082.9	0.01
Isoterpinolene	4.21	1236.8	0.02	5.37*	1085.4	[0.06]
γ -Campholenal	4.97	1293.0	0.05	5.37*	1085.4	[0.06]
<i>para</i> -Cymenene	6.32	1388.2	0.07	5.40*	1087.3	[0.94]
Terpinolene	4.27	1241.6	0.85	5.40*	1087.3	[0.94]
α -Pinene oxide	5.39	1321.4	0.02	5.49*	1093.4	[0.03]
2-Nonanone	5.74	1346.7	0.01	5.49*	1093.4	[0.03]
Unknown PIMA 3 [m/z 79, 94 (87), 77 (25), 91 (21), 93 (16), 95 (12), 138 (8)]				5.62*	1101.7	[0.30]
Linalool	8.08	1519.1	0.26	5.62*	1101.7	[0.30]
Nonanal	5.80*	1350.6	[0.04]	5.69	1105.8	0.01
endo-Fenchol	8.40*	1543.5	[0.24]	5.75	1110.1	0.04
3-Methyl-3-butenyl isovalerate	5.66	1340.6	0.01	5.89	1118.8	0.01
<i>cis-para</i> -Menth-2-en-1-ol	8.14	1523.7	0.05	5.92	1120.7	0.01
α -Campholenal	7.00*	1438.0	[0.05]	5.95	1122.8	0.04
<i>trans</i> -Pinocarveol	9.13*	1599.8	[0.07]	6.12	1134.1	0.08
<i>trans-para</i> -Menth-2-en-1-ol	8.96	1586.6	0.02	6.18*	1137.8	[0.05]
Camphor	7.19*	1452.4	[0.04]	6.18*	1137.8	[0.05]
Camphene hydrate	8.46	1548.5	0.19	6.26	1142.7	0.19
<i>meta</i> -Mentha-4,6-dien-8-ol	9.29*	1613.4	[0.04]	6.32	1147.0	0.03
Isoborneol	9.36*	1618.5	[0.07]	6.41*	1152.8	[0.08]
Citronellal	7.00*	1438.0	[0.05]	6.41*	1152.8	[0.08]
Pinocamphone	7.19*	1452.4	[0.04]	6.45	1155.2	0.02
Pinocarvone	7.90	1505.0	0.01	6.48	1157.6	0.02
Borneol	9.78*	1652.5	[1.82]	6.56	1162.9	1.11
Unknown PIMA 4 [m/z 109, 108 (48), 67 (41), 81 (40), 41 (28)...]				6.60*	1165.2	[0.03]
α -Phellandren-8-ol	10.13	1681.3	0.02	6.60*	1165.2	[0.03]

Isopinocampnone	7.59	1481.5	0.02	6.66	1168.9	0.01
Terpinen-4-ol	8.57*	1556.5	[0.17]	6.75	1174.9	0.18
meta-Cymen-8-ol	11.50	1796.3	0.01	6.84*	1181.3	[0.02]
Cryptone	9.17	1603.6	0.06	6.84*	1181.3	[0.02]
para-Cymen-8-ol	11.53	1799.2	0.05	6.89	1183.9	0.04
trans-Isocarveol	10.97	1751.6	0.01	6.93	1186.5	0.01
α-Terpineol	9.78*	1652.5	[1.82]	6.97	1189.4	0.70
Myrtenal	8.68	1565.1	0.07	6.99	1190.8	0.02
Myrtenol	10.86	1741.8	0.04	7.05	1194.8	0.03
Methylchavicol	9.29*	1613.4	[0.04]	7.12	1199.0	0.01
Verbenone	9.55*	1634.2	[0.11]	7.19*	1204.0	[0.08]
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	10.93	1748.0	0.04	7.19*	1204.0	[0.08]
trans-Carveol	11.39	1786.9	0.03	7.44*	1220.5	[0.19]
endo-Fenchyl acetate	6.81	1423.9	0.16	7.44*	1220.5	[0.19]
Citronellol	10.69	1727.8	0.11	7.65	1234.9	0.07
Thymol methyl ether	8.40*	1543.5	[0.24]	7.68	1237.2	0.03
Carvone	9.94	1665.4	0.01	7.74	1241.7	0.01
Piperitone	9.82	1656.3	0.03	7.88	1251.4	0.02
Geraniol	11.63	1807.9	0.04	8.04	1261.9	0.04
Geranial	10.06	1675.6	0.03	8.18	1271.8	0.01
Unknown PIMA 5 [m/z 43, 119 (72), 81 (66), 54 (48), 41 (47), 58 (44)...]				8.30	1280.1	0.02
trans-Verbenyl acetate	9.36*	1618.5	[0.07]	8.36	1284.4	0.05
Bornyl acetate	8.29	1534.8	26.19	8.46*	1291.2	[26.36]
Isobornyl acetate	8.31	1536.4	0.51	8.46*	1291.2	[26.36]
Unknown PIMA 13 [m/z 119, 43 (87), 91 (78), 92 (70), 134 (50)...]	8.83	1576.8	0.02	8.48	1292.2	0.03
2-Undecanone	8.57*	1556.5	[0.17]	8.59*	1299.8	[0.11]
Unknown PIMA 6 [m/z 107, 43 (76), 150 (42), 91 (28), 108 (23)]	9.10	1597.8	0.05	8.59*	1299.8	[0.11]
trans-Pinocarvyl acetate	9.13*	1599.8	[0.07]	8.62	1302.1	0.07
Car-3-en-5-one	12.08*	1847.9	[0.02]	8.69	1307.0	0.05
(2E,4E)-Decadienal	11.16	1767.8	0.03	8.86	1314.8	0.02

Myrtenyl acetate	9.53	1632.4	0.02	8.96	1322.1	0.02
Terpinyl acetate analog	9.55*	1634.2	[0.11]	9.12	1333.4	0.01
Citronellic acid				9.15	1335.4	0.05
<i>trans</i> -Carvyl acetate	10.20	1687.1	0.03	9.19	1338.6	0.02
Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.22	1340.8	0.05
α -Longipinene	6.72	1417.2	0.02	9.26	1343.7	0.02
α -Cubebene	6.75	1419.3	0.01	9.34*	1349.3	[0.05]
α -Terpinyl acetate	9.68	1645.1	0.04	9.34*	1349.3	[0.05]
Citronellyl acetate	9.43	1624.8	0.07	9.46	1357.4	0.06
Longicyclene	7.05	1441.9	0.01	9.56	1364.7	0.01
Unknown PIMA 8 [m/z 93, 121 (68), 43 (67), 67 (44), 136 (36), 107 (34)... 180 (4)]	10.00*	1670.5	[0.25]	9.61	1368.7	0.07
α -Copaene	7.10	1445.9	0.03	9.68	1373.6	0.03
Geranyl acetate	10.55	1715.8	0.25	9.87	1387.0	0.25
β -Elemene	8.40*	1543.5	[0.24]	9.93	1391.1	0.08
Longifolene	7.93	1507.5	0.07	10.03	1398.5	0.08
β -Caryophyllene	8.40*	1543.5	[0.24]	10.25	1414.7	0.14
β -Copaene	8.35	1539.6	0.01	10.40	1425.9	0.01
<i>trans</i> -Muurolo-3,5-diene	8.86	1579.3	0.12	10.68	1446.7	0.01
α -Humulene	9.25	1609.6	0.04	10.71	1448.7	0.04
Unknown PIMA 9 [m/z 95, 43 (94), 79 (93), 91 (71), 93 (65), 177 (54), 41 (52)...]	10.82	1739.0	0.02	10.85*	1459.1	[0.06]
(<i>E</i>)- β -Farnesene	9.55*	1634.2	[0.11]	10.85*	1459.1	[0.06]
<i>trans</i> -Cadina-1(6),4-diene	9.20	1606.2	0.05	11.01	1471.3	0.06
γ -Muurolole	9.55*	1634.2	[0.11]	11.05	1474.7	0.11
Germacrene D	9.75	1650.2	0.04	11.09	1477.2	0.06
β -Selinene	9.85	1658.5	0.05	11.14	1481.3	0.04
<i>trans</i> -Muurolo-4(15),5-diene	9.78*	1652.5	[1.82]	11.18	1483.8	0.01
α -Selinene	9.90	1662.5	0.04	11.27	1490.9	0.03
Bicyclogermacrene	10.00*	1670.5	[0.25]	11.28	1491.9	0.02
α -Muurolole	10.00*	1670.5	[0.25]	11.38	1498.8	0.24
γ -Cadinene	10.36*	1699.5	[0.34]	11.53*	1510.8	[0.33]
Cubebol	12.55	1889.1	0.02	11.53*	1510.8	[0.33]
<i>trans</i> -Calamenene	11.20	1770.8	0.07	11.64	1519.7	0.09

δ-Cadinene	10.39	1702.4	0.93	11.68*	1522.2	[0.97]
Zonarene	10.36*	1699.5	[0.34]	11.68*	1522.2	[0.97]
<i>trans</i> -Cadina-1,4-diene	10.62	1722.1	0.03	11.77	1529.4	0.03
α-Cadinene	10.74*	1732.3	[0.12]	11.84	1534.8	0.07
α-Calacorene	12.08*	1847.9	[0.02]	11.88	1538.2	0.02
(<i>E</i>)-α-Bisabolene	10.74*	1732.3	[0.12]	11.96	1544.4	0.10
Unknown PIMA XV [m/z 95, 81 (70), 109 (68), 93 (59), 67 (53), 41 (49), 139 (40)... 220 (3)]	12.18	1856.2	0.02	12.02	1549.1	0.02
Unknown LESC I [m/z 93, 135 (99), 107 (72), 177 (72), 81 (57), 149 (53)... 220 (25)]	12.23	1860.8	0.02	12.19	1562.5	0.01
(<i>E</i>)-Nerolidol	13.78	2002.3	0.02	12.22	1565.1	0.01
Spathulenol				12.30	1571.7	0.01
Caryophyllene oxide	12.74	1906.0	0.01	12.35	1575.3	0.02
Globulol	13.88	2012.3	0.01	12.39	1578.6	0.03
1,10-diepi-Cubenol	13.68	1993.3	0.02	12.79*	1610.1	[0.03]
Unknown PIMA 10 [m/z 108, 43 (56), 109 (33), 93 (26), 119 (24)... 212 (2)]	14.71	2092.3	0.01	12.79*	1610.1	[0.03]
1-epi-Cubenol	13.74	1998.8	0.02	12.95	1623.3	0.03
τ-Cadinol	14.87	2107.9	0.11	13.11*	1637.2	[0.22]
Cubenol	13.65	1990.2	0.03	13.11*	1637.2	[0.22]
τ-Muurolol	15.03	2123.9	0.09	13.11*	1637.2	[0.22]
α-Muurolol	15.17	2138.0	0.04	13.18	1642.6	0.05
α-Cadinol	15.46	2166.9	0.18	13.26	1649.7	0.19
Unknown LESC IV [m/z 159, 177 (59), 135 (57), 91 (47), 105 (47)... 220? (25)]				13.40	1660.8	0.02
Amorpha-4,9-dien-2-ol	16.84	2311.0	0.02	13.81	1695.2	0.02
(5 <i>Z</i>)-Tetradecen-14-olide?				14.05	1715.4	0.02
Unknown PIMA XVII [m/z 159, 220 (92), 93 (88), 177 (63), 91 (57), 107 (55)]	17.67	2400.6	0.01	14.14	1723.3	0.01
Unknown PIMA 11 [m/z 159, 132 (79),	17.52	2383.5	0.03	14.22	1730.1	0.03

135 (37), 91 (35), 177 (33)... 220 (16)]						
meta-Camphorene	15.37	2158.3	0.03	16.68	1952.8	0.01
Unknown PISI V [m/z 105, 91 (100), 81 (89), 79 (86), 109 (86), 257 (83)... 275 (12)...]	15.99	2221.4	0.01	16.94	1977.7	0.02
Manool	19.29	2585.7	0.01	17.62	2044.3	0.02
(Z)-Abienol	20.31	2708.7	0.01	18.52	2135.4	0.02
Total reported		99.04%			99.60%	

*: 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