Date : 2023-11-24

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 23K17-PTH01
Customer Identification : Cedarwood Texas (crude) - USA - CB8110R
Type : Essential Oil
Source : *Juniperus mexicana*
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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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

628 Boulevard du Saguenay Ouest, Saguenay (Qc) G7J 1H4 | www.phytochemia.com

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 : 2023-11-20

Physicochemical data

Refractive index : 1.5062 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2023-11-20

Conclusion

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

628 Boulevard du Saguenay, Saguenay (Qc) G7J 1H4 | www.phytochemia.com

Analysis Summary - Consolidated Contents

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

Identification	%	Class
Tricyclene	0.01	Monoterpene
Unknown	0.01	Monoterpene
α-Pinene	0.08	Monoterpene
Camphene	0.01	Monoterpene
α-Fenchene	0.02	Monoterpene
Thuja-2,4(10)-diene	0.02	Monoterpene
Sabinene	0.01	Monoterpene
α-Methylstyrene	0.01	Normonoterpene
Myrcene	0.01	Monoterpene
α-Phellandrene	0.01	Monoterpene
Δ3-Carene	0.02	Monoterpene
para-Cymene	0.02	Monoterpene
Limonene	0.01	Monoterpene
para-Cymenene	0.01	Monoterpene
Terpinolene	0.01	Monoterpene
α-Campholenal	0.01	Monoterpenic aldehyde
trans-Pinocarveol	0.02	Monoterpenic alcohol
Camphor	0.02	Monoterpenic ketone
meta-Mentha-4,6-dien-8-ol	0.01	Monoterpenic alcohol
Pinocamphone	0.01	Monoterpenic ketone
Pinocarvone	0.01	Monoterpenic ketone
Borneol	0.01	Monoterpenic alcohol
α-Phellandren-8-ol	0.02	Monoterpenic alcohol
Terpinen-4-ol	0.04	Monoterpenic alcohol
meta-Cymen-8-ol	0.01	Monoterpenic alcohol
para-Cymen-8-ol	0.05	Monoterpenic alcohol
α-Terpineol	0.05	Monoterpenic alcohol
Myrtenol	0.04	Monoterpenic alcohol
Verbenone	0.04	Monoterpenic ketone
Carvacrol methyl ether	0.06	Monoterpenic ether
Carvenone	0.01	Monoterpenic ketone
Bornyl acetate	0.01	Monoterpenic ester
Brasila-1,10-diene	0.01	Sesquiterpene
Carvacrol	0.01	Monoterpenic alcohol
α-Terpinyl acetate	0.02	Monoterpenic ester
African-1-ene	0.01	Sesquiterpene
2-epi-α-Funebrene	0.25	Sesquiterpene
α-Duprezianene	0.40	Sesquiterpene
Isolongifolene	0.02	Sesquiterpene
β-Elemene	0.70	Sesquiterpene

α-Chamipinene	0.05	Sesquiterpene
Unknown	0.15	Sesquiterpene
β-Funebrene	1.77	Sesquiterpene
α-Cedrene	11.30	Sesquiterpene
β-Caryophyllene	0.40	Sesquiterpene
β-Cedrene	3.63	Sesquiterpene
β-Duprezianene	0.61	Sesquiterpene
cis-Thujopsene	33.77	Sesquiterpene
Isobazzanene	0.13	Sesquiterpene
trans-α-Bergamotene	0.13	Sesquiterpene
β-Barbatene	0.03	Sesquiterpene
Prezizaene	0.11	Sesquiterpene
α-Himachalene	0.12	Sesquiterpene
7,8-Dehydro-α-acoradiene?	0.45	Sesquiterpene
α-Humulene	0.18	Sesquiterpene
Thujopsadiene?	0.31	Sesquiterpene
(*E*)-β-Farnesene	0.16	Sesquiterpene
α-Acoradiene	0.48	Sesquiterpene
β-Acoradiene	0.40	Sesquiterpene
Thujopsene isomer	0.19	Sesquiterpene
β-Chamigrene	0.17	Sesquiterpene
Unknown	0.72	Sesquiterpene
γ-Himachalene	0.51	Sesquiterpene
Germacrene D	0.10	Sesquiterpene
ar-Curcumene	0.26	Sesquiterpene
Unknown	0.37	Sesquiterpene
β-Himachalene	0.75	Sesquiterpene
Pseudowiddrene	0.81	Sesquiterpene
α-Chamigrene	1.44	Sesquiterpene
Cuparene	2.14	Sesquiterpene
α-Cuprenene	1.27	Sesquiterpene
1,2-Dihydrocuparene	0.10	Sesquiterpene
α-Alaskene	0.16	Sesquiterpene
Unknown	0.17	Sesquiterpene
β-Curcumene	0.05	Sesquiterpene
α-Dehydro-ar-himachalene	0.04	Sesquiterpene
γ-Cadinene	0.23	Sesquiterpene
1,4-Dihydrocuparene	0.21	Sesquiterpene
γ-Dehydro-ar-himachalene	0.07	Sesquiterpene
δ-Cadinene	0.46	Sesquiterpene
γ-Cuprenene	0.47	Sesquiterpene
Unknown	0.25	Oxygenated sesquiterpene
δ-Cuprenene epimer I	0.11	Sesquiterpene
ar-Himachalene	0.01	Sesquiterpene
δ-Cuprenene epimer II	0.10	Sesquiterpene

Unknown	0.14	Oxygenated sesquiterpene
Unknown	0.09	Oxygenated sesquiterpene
Unknown	0.09	Oxygenated sesquiterpene
Caryophyllenyl alcohol	0.07	Sesquiterpenic alcohol
Unknown	0.12	Sesquiterpene
Caryophyllene oxide	0.02	Sesquiterpenic ether
Caryophyllene oxide isomer	0.01	Sesquiterpenic ether
allo-Cedrol	0.58	Sesquiterpenic alcohol
Widdrol	2.41	Sesquiterpenic alcohol
α-Cedrol	17.81	Sesquiterpenic alcohol
β-Himachalene oxide	0.08	Sesquiterpenic ether
epi-Cedrol	0.57	Sesquiterpenic alcohol
Unknown	0.23	Oxygenated sesquiterpene
10-epi-Cubenol	0.19	Sesquiterpenic alcohol
Unknown	0.08	Oxygenated sesquiterpene
2-epi-α-Cedren-3-one	0.07	Sesquiterpenic ketone
α-Acorenol	1.05	Sesquiterpenic alcohol
Unknown	0.16	Oxygenated sesquiterpene
β-Acorenol	0.33	Sesquiterpenic alcohol
Unknown	0.19	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.54	Oxygenated sesquiterpene
Himachalol	0.55	Sesquiterpenic alcohol
Unknown	0.23	Oxygenated sesquiterpene
Unknown	0.27	Oxygenated sesquiterpene
Cedrenol analog	0.34	Sesquiterpenic alcohol
14-Hydroxy-9-epi-(*E*)-caryophyllene	0.14	Sesquiterpenic alcohol
1,7-diepi-α-Cedrenal?	0.20	Sesquiterpenic aldehyde
Khusiol	0.08	Sesquiterpenic alcohol
Cedr-8-en-13-ol	0.10	Sesquiterpenic alcohol
α-Bisabolol	0.37	Sesquiterpenic alcohol
α-Cedrenol	0.13	Sesquiterpenic alcohol
Unknown	0.36	Oxygenated sesquiterpene
Thujopsenal	0.04	Sesquiterpenic aldehyde
Mayurone?	0.03	Norsesquiterpenic ketone
Unknown	0.05	Oxygenated sesquiterpene
Thujopsenal analog	0.05	Sesquiterpenic aldehyde
Unknown	0.04	Oxygenated sesquiterpene
Cuparenal	0.03	Sesquiterpenic aldehyde
Unknown	0.03	Oxygenated sesquiterpene
Cedryl acetate	0.11	Sesquiterpenic ester
Unknown	0.03	Oxygenated sesquiterpene
β-Acoradienol?	0.04	Sesquiterpenic alcohol
Unknown	0.06	Oxygenated sesquiterpene
Unknown	0.05	Oxygenated sesquiterpene

Unknown	0.04	Oxygenated sesquiterpene
Manool	0.06	Diterpenic alcohol
7,13-Abietadiene	0.05	Diterpene
Consolidated total	**95.80**	

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

Note: no correction factor was applied

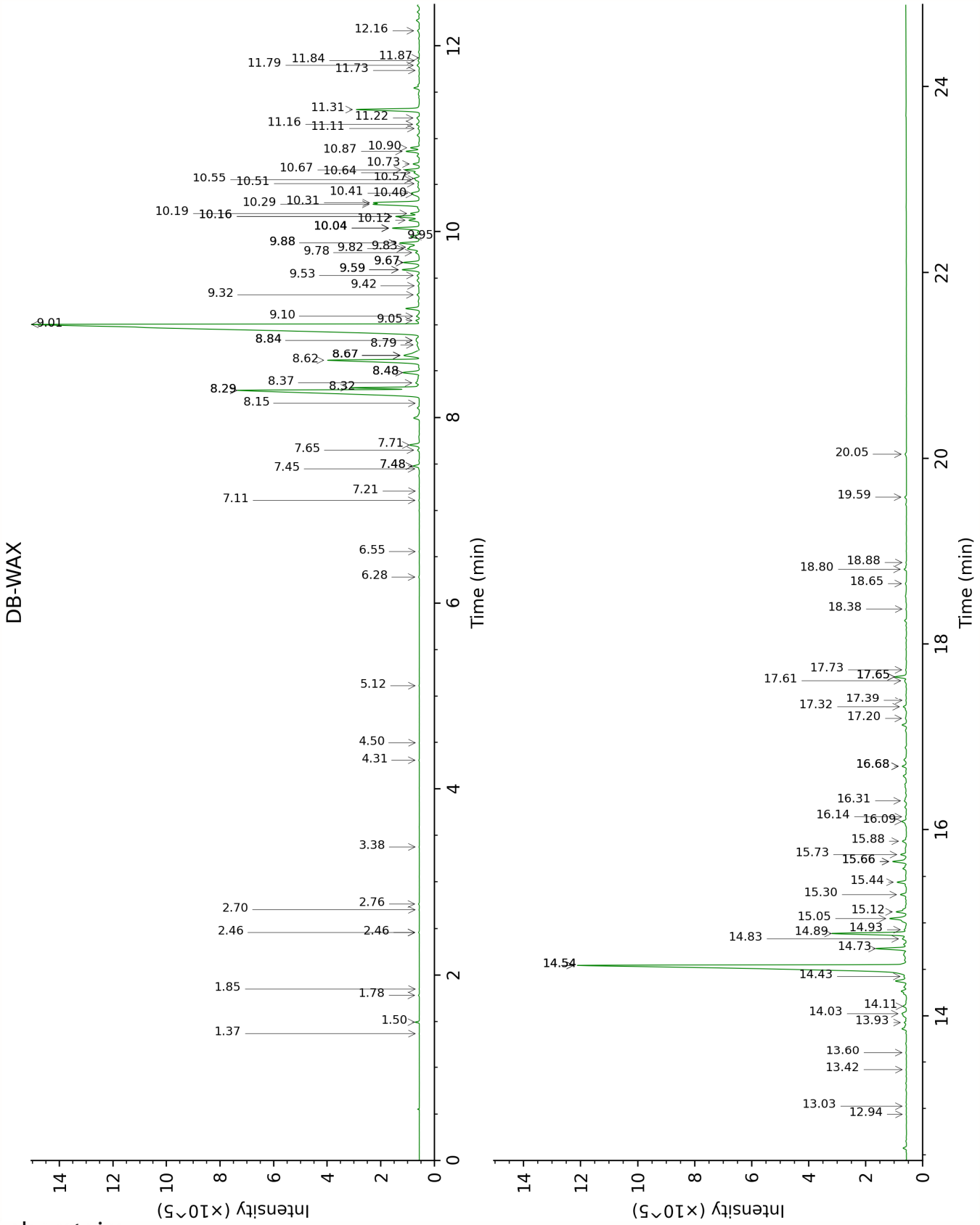
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

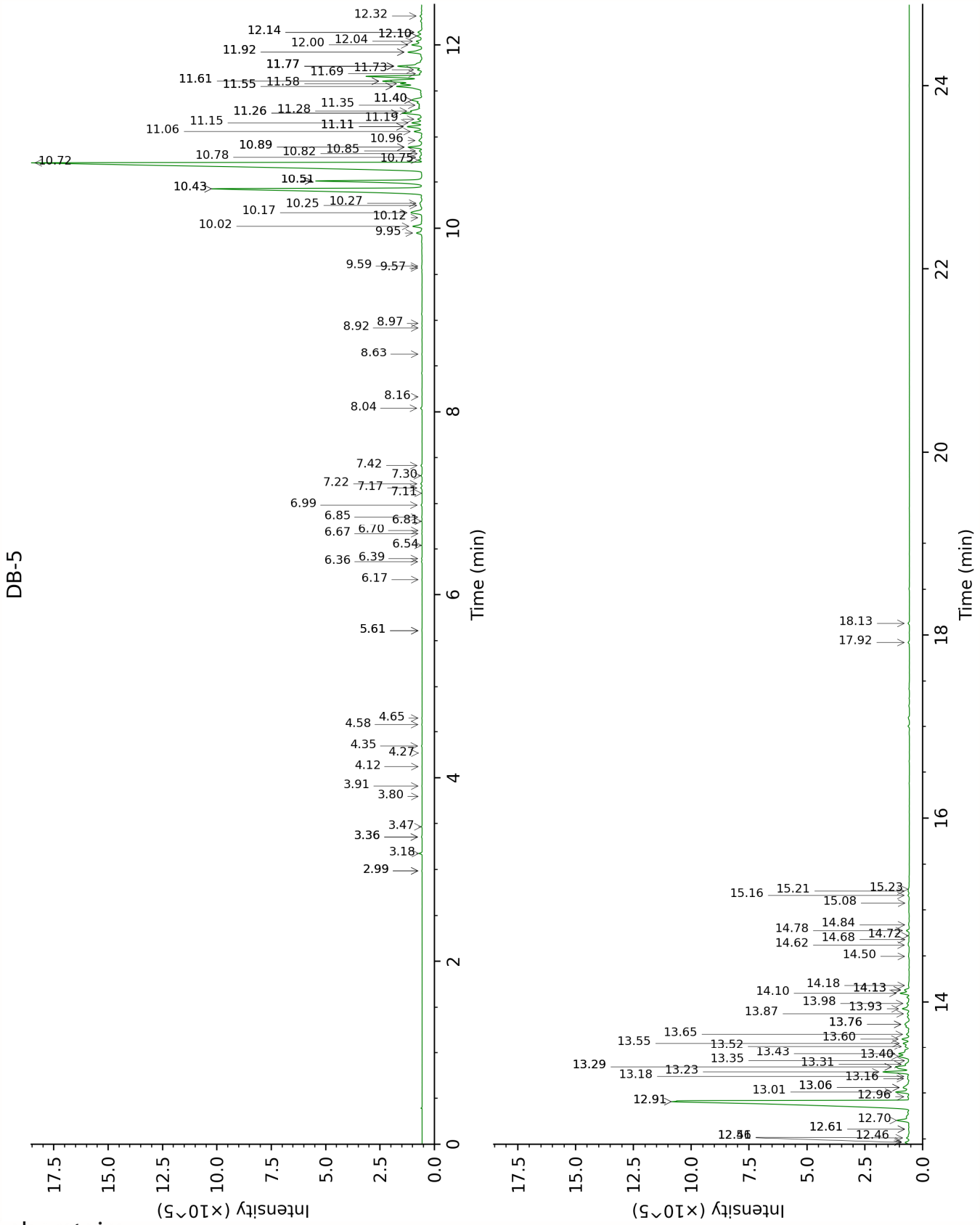
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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.

628 Boulevard du Saguenay, Saguenay (Qc) G7J 1H4 | www.phytochemia.com


DB-WAX
Time (min)
Intensity (×10^5)
12.16
11.79
11.84
11.87
11.73
11.31
11.16
11.22
11.11
10.87
10.90
10.67
10.64
10.73
10.55
10.51
10.57
10.41
10.40
10.29
10.31
10.19
10.16
10.12
10.04
9.95
9.88
9.78
9.82
9.83
9.67
9.53
9.59
9.42
9.32
9.10
9.05
9.01
8.84
8.79
8.62
8.67
8.48
8.37
8.32
8.29
8.15
7.65
7.71
7.45
7.48
7.21
7.11
6.55
6.28
5.12
4.50
4.31
3.38
2.70
2.76
2.46
2.46
1.85
1.78
1.50
1.37
20.05
19.59
18.80
18.88
18.65
18.38
17.73
17.61
17.65
17.32
17.39
17.20
16.68
16.31
16.14
16.09
15.88
15.73
15.66
15.44
15.30
15.05
15.12
14.83
14.89
14.93
14.73
14.54
14.43
14.11
14.03
13.93
13.60
13.42
13.03
12.94


DB-5
Time (min)
Intensity (×10^5)
12.32
12.14
12.10
12.00
12.04
11.92
11.77
11.73
11.69
11.61
11.58
11.55
11.40
11.35
11.28
11.26
11.19
11.15
11.11
11.06
10.96
10.89
10.85
10.82
10.78
10.75
10.72
10.51
10.43
10.27
10.25
10.17
10.12
10.02
9.95
9.59
9.57
8.97
8.92
8.63
8.16
8.04
7.42
7.30
7.22
7.17
7.11
6.99
6.85
6.81
6.67
6.70
6.54
6.39
6.36
6.17
5.61
4.65
4.58
4.35
4.27
4.12
3.91
3.80
3.47
3.36
3.18
2.99
18.13
17.92
15.23
15.21
15.16
15.08
14.84
14.78
14.72
14.68
14.62
14.50
14.18
14.13
14.10
13.98
13.93
13.87
13.76
13.65
13.60
13.55
13.52
13.43
13.40
13.35
13.31
13.29
13.23
13.18
13.16
13.06
13.01
12.96
12.91
12.70
12.61
12.46

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
Tricyclene	1.37	973.7	0.01	2.99*	919.1	[0.01]
Unknown JUVI I [m/z 105, 79 (80), 91 (78), 77 (69), 78 (56), 93 (46), 120 (44)... 136 (4)]	2.70	1106.0	0.01	2.99*	919.1	[0.01]
α-Pinene	1.50	992.3	0.08	3.18	931.6	0.08
Camphene	1.85	1028.0	0.01	3.36*	943.3	[0.03]
α-Fenchene	1.78	1021.6	0.02	3.36*	943.3	[0.03]
Thuja-2,4(10)-diene	2.46*	1085.2	[0.02]	3.47	950.6	0.02
Sabinene	2.46*	1085.2	[0.02]	3.80	972.3	0.01
α-Methylstyrene	5.12	1282.4	0.01	3.91	979.7	0.01
Myrcene				4.12	993.6	0.01
α-Phellandrene				4.27	1003.3	0.01
Δ3-Carene	2.76	1110.7	0.02	4.35	1008.2	0.02
para-Cymene	4.31	1225.3	0.01	4.58	1022.7	0.02
Limonene	3.38	1157.0	0.01	4.65	1027.2	0.01
para-Cymenene	6.56	1387.5	0.01	5.61*	1087.0	[0.02]
Terpinolene	4.50	1238.6	0.01	5.61*	1087.0	[0.02]
α-Campholenal	7.21	1435.3	0.01	6.17	1122.0	0.01
trans-Pinocarveol	9.42	1602.1	0.04	6.36	1134.4	0.02
Camphor	7.45	1452.8	0.02	6.40	1136.6	0.02
meta-Mentha-4,6-dien-8-ol	9.59*	1615.9	[0.67]	6.54	1145.8	0.01
Pinocamphone	7.48*	1455.0	[0.21]	6.67	1153.8	0.01
Pinocarvone	8.15	1504.8	0.01	6.70	1156.0	0.01
Borneol	10.04*	1651.5	[0.91]	6.81	1162.9	0.01
α-Phellandren-8-ol	10.40*†	1680.5	[0.18]	6.85	1165.8	0.02
Terpinen-4-ol	8.84*	1557.0	[0.25]	6.98	1174.1	0.04
meta-Cymen-8-ol	11.74	1792.2	0.01	7.11	1182.3	0.01
para-Cymen-8-ol	11.79	1797.0	0.09	7.17	1186.0	0.05
α-Terpineol	10.04*	1651.5	[0.91]	7.22	1188.9	0.05
Myrtenol	11.11	1739.8	0.04	7.30	1194.5	0.04
Verbenone	9.83*†	1635.2	[0.30]	7.42	1201.5	0.04
Carvacrol methyl ether	8.84*	1557.0	[0.25]	8.04	1243.0	0.06
Carvenone	10.16*	1661.6	[0.82]	8.16	1251.3	0.01
Bornyl acetate	8.48*	1530.0	[0.62]	8.63	1282.3	0.01
Brasila-1,10-diene	6.28	1368.2	0.02	8.92	1301.8	0.01
Carvacrol	15.66*	2157.4	[0.51]	8.97	1305.2	0.01

α-Terpinyl acetate	9.95	1644.2	0.37	9.57	1347.4	0.02
African-1-ene	7.11	1428.0	0.02	9.59	1348.8	0.01
2-epi-α-Funebrene	7.48*	1455.0	[0.21]	9.95	1374.1	0.25
α-Duprezianene	7.71	1471.6	0.34	10.02	1379.2	0.40
Isolongifolene	7.65	1467.6	0.06	10.12	1385.7	0.02
β-Elemene	8.67*	1544.1	[0.95]	10.17	1389.6	0.70
α-Chamipinene	8.29*	1515.4	[10.98]	10.25	1395.1	0.05
Unknown JUOX II [m/z 107, 91 (86), 93 (83), 79 (81), 162 (74), 41 (73), 133 (72)... 204 (13)]	8.37	1521.6	0.15	10.27	1396.8	0.15
β-Funebrene	8.32	1517.5	1.77	10.43*	1408.0	[13.06]
α-Cedrene	8.29*	1515.4	[10.98]	10.43*	1408.0	[13.06]
β-Caryophyllene	8.67*	1544.1	[0.95]	10.51*	1414.3	[4.64]
β-Cedrene	8.62	1540.2	3.63	10.51*	1414.3	[4.64]
β-Duprezianene	8.48*	1530.0	[0.62]	10.51*	1414.3	[4.64]
cis-Thujopsene	9.01	1570.1	33.52	10.72	1429.5	33.77
Isobazzanene	8.79	1553.4	0.16	10.75	1431.7	0.13
trans-α-Bergamotene	8.67*	1544.1	[0.95]	10.78	1434.0	0.13
β-Barbatene	9.32	1594.4	0.09	10.82	1436.9	0.03
Prezizaene	9.05	1573.4	0.13	10.85	1439.1	0.11
α-Himachalene	9.10	1576.8	0.12	10.89*	1442.2	[0.57]
7,8-Dehydro-α-acoradiene?	9.82*†	1633.9	[0.44]	10.89*	1442.2	[0.57]
α-Humulene	9.53	1611.0	0.09	10.96	1447.5	0.18
Thujopsadiene?	10.41*†	1681.5	[0.27]	11.06	1454.8	0.31
(*E*)-β-Farnesene	9.78	1630.5	0.16	11.11*	1458.7	[0.64]
α-Acoradiene	9.59*	1615.9	[0.67]	11.11*	1458.7	[0.64]
β-Acoradiene	9.67*	1622.0	[0.53]	11.15	1461.8	0.40
Thujopsene isomer	9.67*	1622.0	[0.53]	11.19	1464.8	0.19
β-Chamigrene	9.88*	1638.8	[0.68]	11.26*	1469.7	[0.89]
Unknown JUVI IV [m/z 91, 105 (93), 161 (77), 93 (73), 119 (71), 133 (69)... 204 (31)]				11.26*	1469.7	[0.89]
γ-Himachalene	9.88*	1638.8	[0.68]	11.28	1471.4	0.51
Germacrene D	10.04*	1651.5	[0.91]	11.35	1476.1	0.10
ar-Curcumene	10.90	1722.5	0.26	11.40*	1480.3	[0.58]

Unknown AMBA V [m/z 189, 91 (95), 105 (93), 133 (84), 119 (75), 41 (59), 93 (46)... 204 (33)]	10.12	1658.3	0.37	11.40*	1480.3	[0.58]
β-Himachalene	10.04*	1651.5	[0.91]	11.55*†	1491.3	[1.31]
Pseudowiddrene	10.16*	1661.6	[0.82]	11.55*†	1491.3	[1.31]
α-Chamigrene	10.29	1672.0	1.44	11.58*†	1493.5	[0.80]
Cuparene	11.32	1756.9	2.14	11.61*†	1495.6	[2.07]
α-Cuprenene	10.31	1673.3	1.27	11.61*†	1495.6	[2.07]
1,2-Dihydrocuparene	10.56	1693.1	0.09	11.69	1501.6	0.10
α-Alaskene	10.19	1664.1	0.29	11.73	1504.8	0.16
Unknown JUVI V [m/z 121, 123 (45), 91 (24), 107 (24), 122 (24), 95 (23)... 204 (11)]	10.57	1694.2	0.17	11.77*	1507.9	[1.17]
β-Curcumene	10.51	1689.7	0.05	11.77*	1507.9	[1.17]
α-Dehydro-ar-himachalene	11.84	1801.4	0.04	11.77*	1507.9	[1.17]
γ-Cadinene	10.64	1700.1	0.23	11.77*	1507.9	[1.17]
1,4-Dihydrocuparene	10.73	1707.9	0.21	11.77*	1507.9	[1.17]
γ-Dehydro-ar-himachalene	12.16	1829.6	0.07	11.92*	1519.8	[0.73]
δ-Cadinene	10.67	1702.6	0.46	11.92*	1519.8	[0.73]
γ-Cuprenene	10.87	1719.3	0.44	12.00	1526.0	0.47
Unknown JUVI VI [m/z 91, 107 (97), 105 (93), 41 (92), 109 (78), 43 (78), 121 (76), 135 (75)... 220 (21)]				12.04	1529.1	0.25
δ-Cuprenene epimer I	11.16	1743.6	0.11	12.10*	1533.7	[0.24]
ar-Himachalene	11.87	1804.1	0.01	12.10*	1533.7	[0.24]
δ-Cuprenene epimer II	11.22	1749.4	0.10	12.14*	1536.7	[0.21]
Unknown JUVI VII [m/z 43, 95 (81), 207 (61), 41 (55), 55 (50)... 222 (3)]	14.11	2006.0	0.14	12.14*	1536.7	[0.21]

Unknown JUVI VIII [m/z 91, 119 (98), 121 (91), 105 (85), 43 (82), 41 (76)... 205 (37), 220 (16)]	13.60	1959.0	0.03	12.32	1550.6	0.09
Unknown JUVI IX [m/z 95, 191 (52), 107 (50), 121 (32), 81 (31)...]	14.43	2036.6	0.09	12.46*	1561.9	[0.19]
Caryophyllenyl alcohol	13.93	1989.3	0.07	12.46*	1561.9	[0.19]
Unknown JUAS I [m/z 95, 131 (96), 202 (64), 187 (61), 159 (55), 105 (50)...202 (64)]				12.51	1565.8	0.12
Caryophyllene oxide	13.02	1906.1	0.02	12.61*	1573.3	[0.06]
Caryophyllene oxide isomer	12.94	1898.1	0.01	12.61*	1573.3	[0.06]
allo-Cedrol	14.54*	2047.9	[18.54]	12.70	1580.7	0.58
Widdrol	14.89	2080.7	2.41	12.91*	1596.8	[20.23]
α-Cedrol	14.54*	2047.9	[18.54]	12.91*	1596.8	[20.23]
β-Himachalene oxide	13.42	1942.2	0.02	12.96	1600.9	0.08
epi-Cedrol	15.05	2096.4	0.66	13.01	1605.0	0.57
Unknown CEDE XIII [m/z 138, 110 (77), 137 (75), 107 (62), 91 (61), 93 (60), 109 (57)... 220 (34)]				13.06*	1609.0	[0.42]
10-epi-Cubenol	14.03	1998.4	0.19	13.06*	1609.0	[0.42]
Unknown JUVI XI [m/z 107, 41 (86), 123 (85), 82 (79), 95 (77), 93 (76), 91 (73), 69 (71)... 220 (13)]	14.93	2084.6	0.08	13.16	1617.1	0.08
2-epi-α-Cedren-3-one				13.18	1619.0	0.07
α-Acorenol	14.73	2065.2	0.94	13.23	1623.1	1.05
Unknown JUVI	15.88	2179.2	0.16	13.29*	1627.6	[0.83]

XII [m/z 132, 175 (22), 119 (18), 91 (18), 157 (18)... 219 (10)]						
β-Acorenol	15.12	2103.5	0.33	13.29*	1627.6	[0.83]
Unknown JUVI X [m/z 105, 93 (78), 95 (75), 131 (72), 119 (71), 132 (70), 91 (67), 120 (49)... 202 (39), 220 (9)]	16.09	2200.9	0.23	13.31	1629.8	0.19
Unknown JUVI XIII [m/z 132, 91 (24), 119 (22), 105 (21), 133 (17), 117 (16)... 219 (3)]				13.35	1633.1	0.03
Unknown JUVI XV [m/z 123, 81 (77), 95 (77), 107 (72), 41 (72), 93 (66), 55 (64)... 220? (13)]				13.40	1637.1	0.54
Himachalol	15.44	2135.3	0.32	13.43	1639.5	0.55
Unknown JUVI XIV [m/z 41, 91 (96), 79 (88), 69 (82), 123 (80), 93 (80)... 220 (8)]	17.65*	2365.6	[0.38]	13.52	1646.5	0.23
Unknown JUVI XVI [m/z 43, 81 (84), 41 (64), 67 (62), 95 (58), 79 (58)... 204 (48), 220 (2)]	15.74	2164.9	0.19	13.55	1649.4	0.27
Cedrenol analog	16.68*	2262.2	[0.16]	13.60	1653.2	0.34
14-Hydroxy-9-epi-(*E*)-caryophyllene	16.68*	2262.2	[0.16]	13.65	1657.5	0.14
1,7-diepi-α-Cedrenal?	15.30	2122.0	0.20	13.76*	1666.5	[0.29]
Khusiol	16.31	2223.8	0.08	13.76*	1666.5	[0.29]
Cedr-8-en-13-ol	17.20	2316.7	0.05	13.87	1675.9	0.10
α-Bisabolol	15.66*	2157.4	[0.51]	13.93	1680.5	0.37

α-Cedrenol	17.32	2330.1	0.12	13.98	1685.2	0.13
Unknown JUVI XVII [m/z 91, 105 (87), 123 (74), 135 (70), 107 (60), 79 (59)... 220 (13)]				14.10	1694.3	0.36
Thujopsenal	16.14	2206.1	0.04	14.13*	1697.3	[0.22]
Mayurone?	17.39	2337.6	0.03	14.13*	1697.3	[0.22]
Unknown JUVI XVIII [m/z 105, 69 (77), 91 (66), 119 (65), 111 (56), 107 (45), 55 (45)... 220? (2)]	17.73	2373.7	0.04	14.18	1701.3	0.05
Thujopsenal analog	17.65*	2365.6	[0.38]	14.50	1728.7	0.05
Unknown JUVI XIX [m/z 105, 91 (83), 79 (78), 135 (67), 107 (56), 67 (53)... 220 (9)]				14.62	1739.3	0.04
Cuparenal				14.68	1744.5	0.03
Unknown JUVI XX [m/z 105, 69 (79), 111 (66), 119 (60), 91 (50), 55 (41)... 203 (11), 220 (1)]				14.72	1748.1	0.03
Cedryl acetate	14.83	2075.2	0.18	14.78	1753.0	0.11
Unknown CEDE XXII [m/z 91, 105 (74), 93 (67), 79 (59), 133 (54), 41 (47), 107 (46)...]	18.65	2476.8	0.05	14.84	1758.4	0.03
β-Acoradienol?	18.38	2446.2	0.02	15.08	1778.9	0.04
Unknown JUVI XXII [m/z 189, 91 (48), 133 (40), 105 (40), 41 (34), 187 (34)... 220 (5)]	18.88	2502.6	0.02	15.16	1786.2	0.06
Unknown JUVI XXIII [m/z 148, 141 (99), 91 (74), 105 (52), 41 (42),	20.05	2640.2	0.06	15.21	1790.2	0.05

121 (42), 133 (37)... 218 (32)]						
Unknown JUVI XXIV [m/z 121, 136 (53), 91 (22), 93 (19), 79 (15), 105 (13)... 220 (3)]	18.80	2494.2	0.08	15.23	1792.0	0.04
Manool	19.59	2584.9	0.06	17.92	2043.9	0.06
7,13-Abietadiene	17.61	2361.0	0.09	18.13	2064.5	0.05
Total reported		93.23%			97.01%	

*: 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

628 Boulevard du Saguenay, Saguenay (Qc) G7J 1H4 | www.phytochemia.com