

Date : March 16, 2021

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

**Internal code :** 21B23-FEP11

**Customer identification :** Ginger Fresh - Indonesia - 828251-20

**Type :** Essential oil

**Source :** *Zingiber officinale*

**Customer :** Fern & Petal

ANALYSIS

**Method:** PC-MAT-014  - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.

**Analyst :** Sylvain Mercier, M. Sc., Chimiste

**Analysis date :** March 16, 2021

Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste 2013-174

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#### *P*HYSICO*C*HEMICAL *D*ATA

**Physical aspect:** Light yellow liquid

**Refractive index:**  $1.4861 \pm 0.0003$  (20 °C; method PC-MAT-016)

#### *C*ONCLUSION

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	0.02	Aliphatic alcohol
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Toluene	0.02	Simple phenolic
Hexanal	0.09	Aliphatic aldehyde
2-Methyl-2-heptene	tr	Alkene
Hexanol	0.04	Aliphatic alcohol
2-Heptanone	0.08	Aliphatic ketone
2-Heptanol	0.20	Aliphatic alcohol
Tricyclene	0.29	Monoterpene
α-Thujene	0.03	Monoterpene
α-Pinene	3.34	Monoterpene
Camphene	14.68	Monoterpene
α-Fenchene	0.02	Monoterpene
Unknown	0.04	Monoterpene
β-Pinene	0.35	Monoterpene
Sabinene	0.08	Monoterpene
6-Methyl-5-hepten-2-one	1.09	Aliphatic ketone
Myrcene	1.47	Monoterpene
6-Methyl-5-hepten-2-ol	0.24	Aliphatic alcohol
Pseudolimonene	0.02	Monoterpene
α-Phellandrene	0.18	Monoterpene
Octanal	0.05	Aliphatic aldehyde
Δ3-Carene	0.06	Monoterpene
α-Terpinene	0.02	Monoterpene
para-Cymene	0.14	Monoterpene
Unknown	0.01	Unknown
Limonene	3.78	Monoterpene
Unknown	0.02	Unknown
β-Phellandrene	5.60*	Monoterpene
1,8-Cineole	[5.60]*	Monoterpenic ether
(Z)-β-Ocimene	0.01	Monoterpene
2-Heptyl acetate	0.04	Aliphatic ester
(E)-β-Ocimene	0.03	Monoterpene
2,6-Dimethyl-5-heptenal (melonal)	0.02	Aliphatic aldehyde
γ-Terpinene	0.07	Monoterpene
cis-Linalool oxide (fur.)	0.02	Monoterpenic alcohol
Octanol	0.03	Aliphatic alcohol
Terpinolene	0.25	Monoterpene
para-Cymenene	0.03	Monoterpene
Unknown	0.35	Oxygenated monoterpene
Rosefuran	0.13	Monoterpenic ether
Linalool	0.78	Monoterpenic alcohol
2-Nonanol	0.14	Aliphatic alcohol
endo-Fenchol	0.07	Monoterpenic alcohol

Bornyl methyl ether	0.03	Monoterpenic ether
<i>trans</i> -Pinene hydrate	0.03	Monoterpenic alcohol
Camphor	0.19	Monoterpenic ketone
Camphene hydrate	0.12	Monoterpenic alcohol
exo-Isocitral	0.01	Monoterpenic aldehyde
Citronellal	0.10	Monoterpenic aldehyde
Borneol	1.63	Monoterpenic alcohol
Isoneral	0.04	Monoterpenic aldehyde
Unknown	0.01	Oxygenated monoterpane
Terpinen-4-ol	0.16	Monoterpenic alcohol
Rosefuran oxide	0.14	Monoterpenic ether
Cryptone	0.03	Normonoterpenic ketone
Isogeranial	0.06	Monoterpenic aldehyde
para-Cymen-8-ol	0.03	Monoterpenic alcohol
$\alpha$ -Terpineol	0.53	Monoterpenic alcohol
Myrtenal	0.03	Monoterpenic aldehyde
Myrtenol	0.03	Monoterpenic alcohol
Decanal	0.04	Aliphatic aldehyde
<i>trans</i> -Carveol	0.01	Monoterpenic alcohol
Bornyl formate	0.01	Monoterpenic ester
Nerol	0.25	Monoterpenic alcohol
Citronellol	0.45	Monoterpenic alcohol
Neral	3.14	Monoterpenic aldehyde
Unknown	0.09	Oxygenated monoterpane
Geraniol	1.92	Monoterpenic alcohol
Geranal	5.00	Monoterpenic aldehyde
Citronellyl formate	0.07	Monoterpenic ester
Bornyl acetate	0.43	Monoterpenic ester
2-Undecanone	0.26	Aliphatic ketone
Geranyl formate	0.09	Monoterpenic ester
2-Undecanol	0.01	Aliphatic alcohol
$\delta$ -Elemene	0.04	Sesquiterpene
$\alpha$ -Cubebene	0.03	Sesquiterpene
Citronellyl acetate	0.02	Monoterpenic ester
8-Hydroxy-iso-menthol	0.10	Monoterpenic alcohol
Cyclosativene I	0.21	Sesquiterpene
Cyclosativene II	0.07	Sesquiterpene
Neryl acetate	0.02	Monoterpenic ester
$\alpha$ -Copaene	0.30	Sesquiterpene
Unknown	0.02	Unknown
$\beta$ -Cubebene	0.01	Sesquiterpene
Geranyl acetate	0.68	Monoterpenic ester
$\beta$ -Elemene	0.45	Sesquiterpene
$\gamma$ -4-Dimethylbenzenebutyral	0.01	Simple phenolic
Sesquithujene	0.02	Sesquiterpene
Dodecanal	0.18	Aliphatic aldehyde
$\beta$ -Caryophyllene	0.08	Sesquiterpene
$\alpha$ -Santalene	0.02	Sesquiterpene
$\beta$ -Copaene	0.13	Sesquiterpene
Unknown	0.04	Unknown
$\gamma$ -Elemene	0.04	Sesquiterpene
<i>trans</i> - $\alpha$ -Bergamotene	0.11	Sesquiterpene

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Sesquisabinene A	0.04	Sesquiterpene
Unknown	0.02	Unknown
Unknown	0.04	Sesquiterpene
$\alpha$ -Humulene	0.05	Sesquiterpene
allo-Aromadendrene	0.20	Sesquiterpene
Sesquisabinene B	0.23	Sesquiterpene
(E)- $\beta$ -Farnesene	0.25	Sesquiterpene
Selina-4,11-diene	0.06	Sesquiterpene
$\gamma$ -Muurolene	0.12	Sesquiterpene
Germacrene D	0.42	Sesquiterpene
$\gamma$ -Curcumene	0.12	Sesquiterpene
ar-Curcumene	8.50	Sesquiterpene
$\delta$ -Selinene	0.08	Sesquiterpene
Unknown	0.35	Sesquiterpene
Bicyclosesquiphellandrene?	1.39	Sesquiterpene
2-Tridecanone	0.01	Aliphatic ketone
$\alpha$ -Zingiberene	13.75	Sesquiterpene
$\beta$ -Bisabolene	4.00	Sesquiterpene
$\gamma$ -Cadinene	0.10	Sesquiterpene
Cubebol	0.05	Sesquiterpenic alcohol
(3E,6E)- $\alpha$ -Farnesene	2.91	Sesquiterpene
trans-Calamenene	0.04	Sesquiterpene
$\delta$ -Cadinene	0.17	Sesquiterpene
$\beta$ -Sesquiphellandrene	6.89	Sesquiterpene
Unknown	0.10	Oxygenated sesquiterpene
(E)- $\gamma$ -Bisabolene	0.20	Sesquiterpene
Unknown	0.06	Oxygenated sesquiterpene
$\alpha$ -Elemol	0.19	Sesquiterpenic alcohol
Germacrene B	0.21	Sesquiterpene
cis-Sesquisabinene hydrate	0.10	Sesquiterpenic alcohol
(E)-Nerolidol	0.22	Sesquiterpenic alcohol
1'-Hydroxyeugenol	0.04	Phenylpropanoid
ar-Turmerol	0.10	Sesquiterpenic alcohol
trans-Sesquisabinene hydrate	0.17	Sesquiterpenic alcohol
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Junenol	0.04	Sesquiterpenic alcohol
10-epi- $\gamma$ -Eudesmol	0.09	Sesquiterpenic alcohol
cis-Zingiberenol	0.33	Sesquiterpenic alcohol
Unknown	0.12	Oxygenated sesquiterpene
$\gamma$ -Eudesmol	0.04	Sesquiterpenic alcohol
trans-Zingiberenol	0.17	Sesquiterpenic alcohol
$\beta$ -Eudesmol	0.25	Sesquiterpenic alcohol
$\alpha$ -Eudesmol	0.12	Sesquiterpenic alcohol
(3E,5E)-7-Hydroxyfarnesene	0.07	Sesquiterpenic alcohol
Zingerone methyl ether	0.01	Simple phenolic
$\alpha$ -Bisabolol	0.03	Sesquiterpenic alcohol
4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	0.14	Norsesquiterpenic ketone
Unknown	0.13	Oxygenated sesquiterpene
Unknown	0.09	Oxygenated sesquiterpene
Unknown	0.28	Oxygenated sesquiterpene
(Z)-epi- $\beta$ -Santalol	0.02	Sesquiterpenic alcohol

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ar-Curcumen-15-al	0.26	Sesquiterpenic aldehyde
Unknown	0.07	Oxygenated sesquiterpene
Oplopanone	0.01	Sesquiterpenic alcohol
Xanthorizzhol?	0.06	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.08	Oxygenated sesquiterpene
Unknown	0.35	Oxygenated sesquiterpene
Unknown	0.15	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.05	Oxygenated sesquiterpene
Unknown	0.09	Oxygenated sesquiterpene
Geranyl-para-cymene	0.05	Diterpene
1-(4'-Hydroxy-3'-methoxyphenyl)-7-tetradecen-3-one?	0.20	Gingerol derivative
<b>Consolidated total</b>	<b>96.07%</b>	

\*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

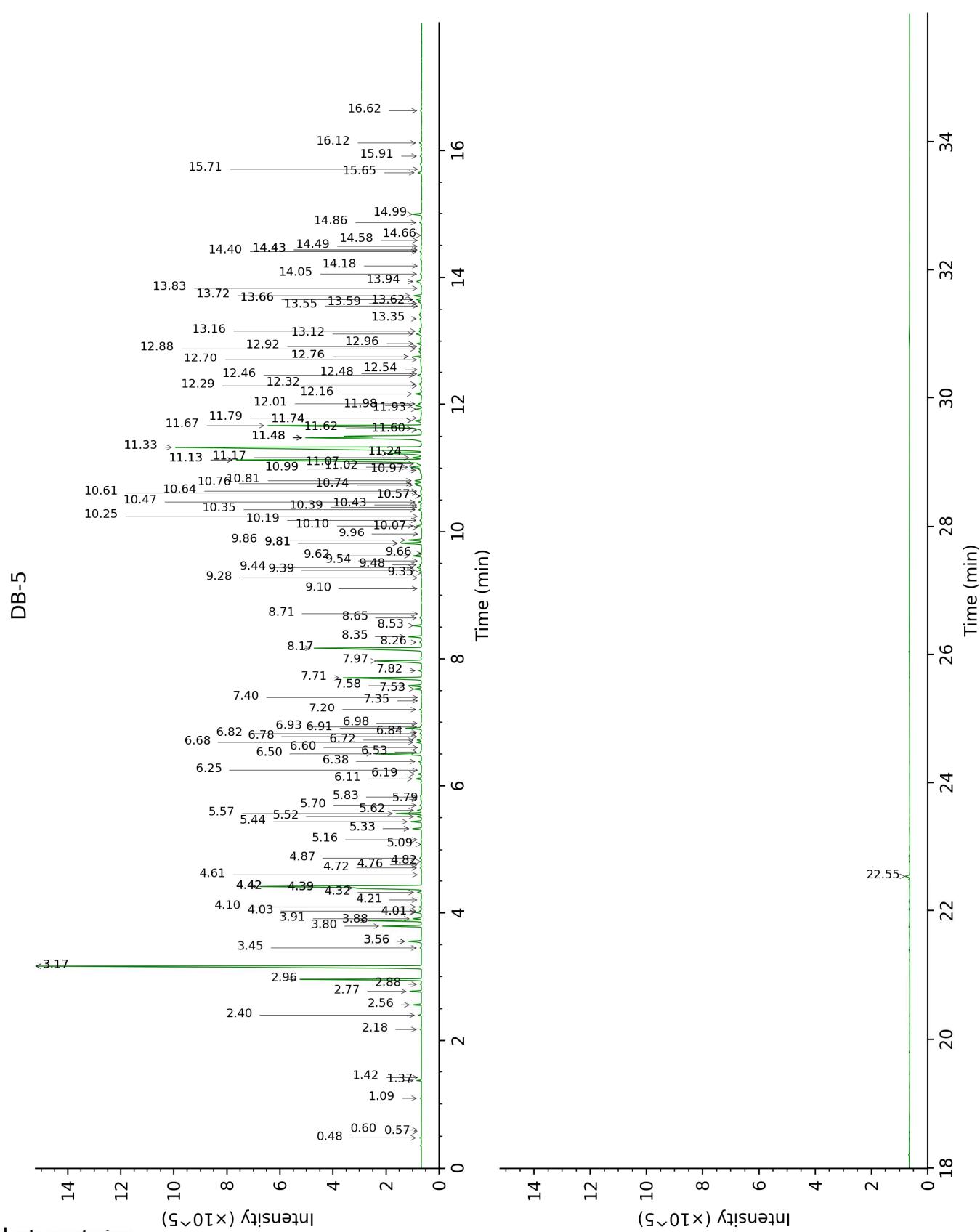
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

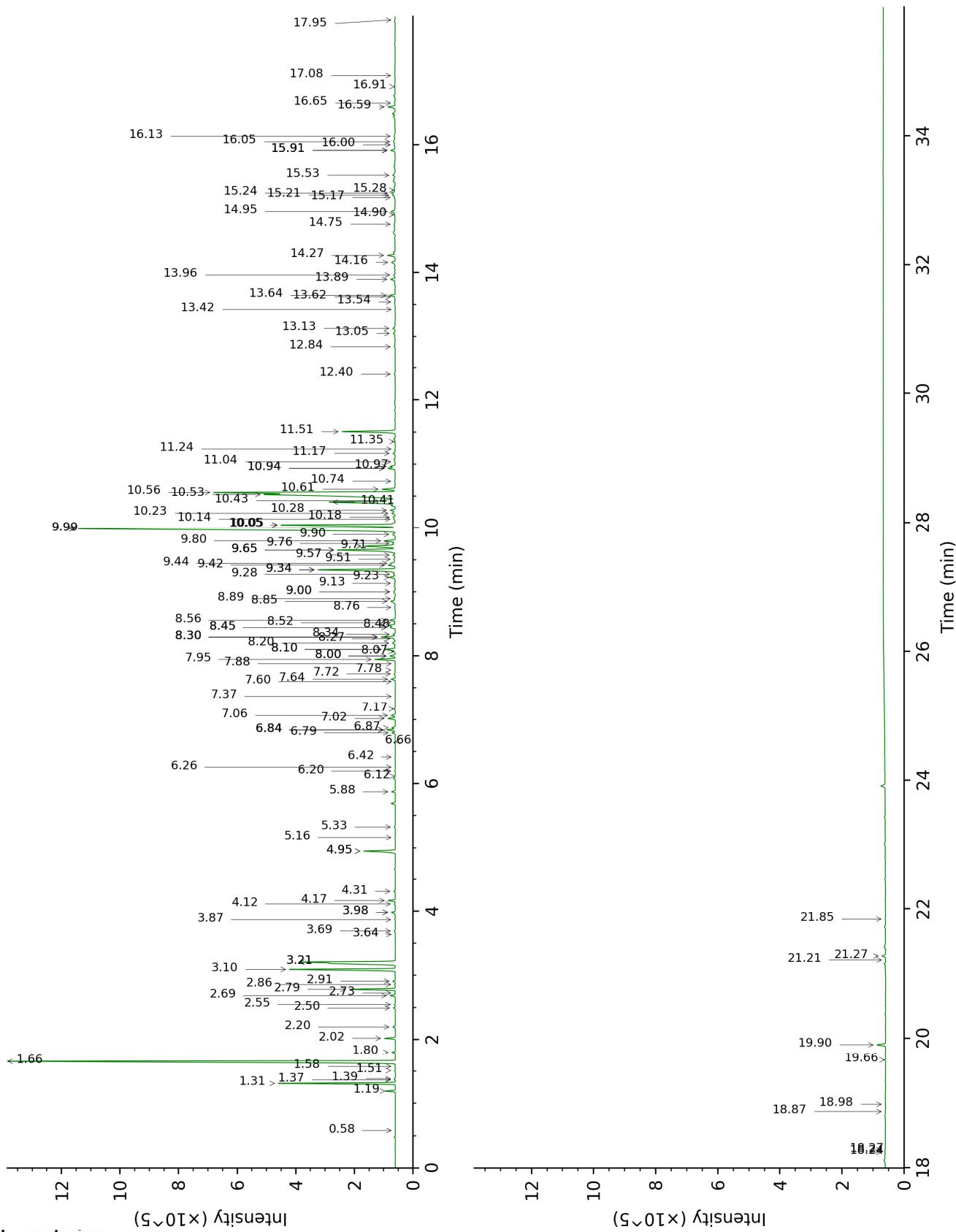
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

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DB-WAX



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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
2-Methyl-3-buten-2-ol	0.48	605	0.02	1.51	1016	0.03
Isovaleral	0.57	641	tr			
2-Methylbutyral	0.60	652	tr			
Toluene	1.09	758	0.02	1.39	1003	0.02
Hexanal	1.37	800	0.09	1.80	1045	0.10
2-Methyl-2-heptene	1.42	806	tr	0.58	832	tr
Hexanol	2.18	872	0.04	5.32	1324	0.04
2-Heptanone	2.40	891	0.08	2.91	1145	0.08
2-Heptanol	2.56	905	0.20	4.95*	1297	1.27
Tricyclene	2.77	919	0.29	1.19	973	0.29
$\alpha$ -Thujene	2.88	927	0.03	1.37	1002	0.03
$\alpha$ -Pinene	2.96	932	3.34	1.31	993	3.31
Camphene	3.17*	946	14.86	1.66	1030	14.68
$\alpha$ -Fenchene	3.17*	946	[14.86]	1.58	1022	0.02
Unknown [m/z 91, 119 (60), 77 (36), 92 (31), 93 (31)... 134 (23)]	3.45	965	0.04	2.55	1116	0.04
$\beta$ -Pinene	3.56*	972	0.42	2.02	1067	0.35
Sabinene	3.56*	972	[0.42]	2.20	1085	0.08
6-Methyl-5-hepten-2-one	3.80	988	1.09	4.95*	1297	[1.27]
Myrcene	3.88	994	1.47	2.79	1135	1.44
6-Methyl-5-hepten-2-ol	3.91	996	0.24	6.84*†	1435	0.44
Pseudolimonene	4.01*	1002	0.19	2.73	1130	0.02
$\alpha$ -Phellandrene	4.01*	1002	[0.19]	2.69	1127	0.18
Octanal	4.03	1004	0.05	4.31	1251	0.06
$\Delta^3$ -Carene	4.10	1008	0.06	2.50	1112	0.07
$\alpha$ -Terpinene	4.20	1015	0.02	2.86	1141	0.03
para-Cymene	4.32	1022	0.14	3.98*	1227	0.16
Unknown [m/z 59, 43 (12), 109 (11), 41 (10), 127 (8)...]	4.39*†	1027	9.42	6.26	1392	0.01
Limonene	4.39*†	1027	[9.42]	3.10	1159	3.78
Unknown [m/z 59, 43 (11), 109 (10), 41 (10), 127 (8)...]	4.39*†	1027	[9.42]	6.12	1382	0.02
$\beta$ -Phellandrene	4.42*†	1028	[9.42]	3.21*	1168	5.52
1,8-Cineole	4.42*†	1028	[9.42]	3.21*	1168	[5.52]
(Z)- $\beta$ -Ocimene	4.61	1041	0.01	3.64	1202	0.01
2-Heptyl acetate	4.72	1048	0.04	4.12	1236	0.04
(E)- $\beta$ -Ocimene	4.76	1050	0.03	3.87	1219	0.03
2,6-Dimethyl-5-heptenal (melonal)	4.82	1054	0.02	5.16	1312	0.02
$\gamma$ -Terpinene	4.87	1057	0.07	3.70	1206	0.05
cis-Linalool oxide (fur.)	5.09	1071	0.02	6.42	1403	0.02
Octanol	5.16	1076	0.03	8.00*	1523	0.22
Terpinolene	5.33*	1086	0.28	4.17	1240	0.25
para-Cymenene	5.33*	1086	[0.28]	6.20	1387	0.03
Unknown [m/z 96, 109 (55), 79 (41), 67 (38), 41 (36)... 150 (3)]	5.44	1094	0.35	8.56	1566	0.22

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Rosefuran	5.52	1098	0.13	5.88	1364	0.13
Linalool	5.57	1102	0.78	7.95	1519	0.72
2-Nonanol	5.62	1105	0.14	7.64	1495	0.15
endo-Fenchol	5.70	1110	0.07	8.27	1544	0.06
Bornyl methyl ether	5.79	1116	0.03	3.98*	1227	[0.16]
<i>trans</i> -Pinene hydrate	5.83	1118	0.03	7.78	1506	0.03
Camphor	6.11	1136	0.19	7.06	1452	0.16
Camphene hydrate	6.19	1141	0.12	8.34	1549	0.09
exo-Isocitral	6.25	1145	0.01	7.37	1475	0.01
Citronellal	6.38	1154	0.10	6.87†	1437	[0.44]
Borneol	6.50	1162	1.63	9.65*	1654	2.55
Isoneral	6.53	1164	0.04	7.72	1501	0.05
Unknown [m/z 109, 79 (18), 81 (15), 91 (12), 77 (10)... 152 (3)]	6.60	1168	0.01			
Terpinen-4-ol	6.68	1173	0.16	8.45*	1558	0.24
Rosefuran oxide	6.72	1175	0.14	8.45*	1558	[0.24]
Cryptone	6.78	1179	0.03	9.00*	1601	0.11
Isogeranial	6.82	1182	0.06	8.07†	1528	0.48
para-Cymen-8-ol	6.84	1183	0.03	11.35	1797	0.03
α-Terpineol	6.91	1187	0.53	9.65*	1654	[2.55]
Myrtenal	6.93	1189	0.03	8.52	1563	0.04
Myrtenol	6.98	1192	0.03	10.74	1745	0.03
Decanal	7.20	1206	0.04	7.17	1460	0.05
<i>trans</i> -Carveol	7.35	1216	0.01	11.24	1787	0.02
Bornyl formate	7.40	1220	0.01	7.88	1513	0.01
Nerol	7.53	1229	0.25	10.94*†	1762	0.47
Citronellol	7.58	1232	0.45	10.61	1734	0.50
Neral	7.71	1240	3.14	9.34*	1629	3.19
Unknown [m/z 109, 119 (84), 91 (81), 134 (55)... 137 (27)...]	7.82	1248	0.09	11.17	1782	0.10
Geraniol	7.97	1258	1.92	11.51	1811	2.00
Geranal	8.17	1272	5.00	9.99*†	1682	22.78
Citronellyl formate	8.26	1278	0.07	8.76	1582	0.03
Bornyl acetate	8.35	1284	0.43	8.10*†	1531	[0.48]
2-Undecanone	8.53	1296	0.26	8.48	1560	0.27
Geranyl formate	8.65	1304	0.09	9.76	1663	0.10
2-Undecanol	8.71	1308	0.01	10.14	1694	0.07
δ-Elemene	9.10	1336	0.04	6.84*†	1435	[0.44]
α-Cubebene	9.28	1348	0.03	6.66	1421	0.02
Citronellyl acetate	9.35	1353	0.02	9.34*	1629	[3.19]
8-Hydroxy-iso-menthol	9.39	1356	0.10	14.90	2129	0.04
Cyclosativene I	9.44	1360	0.21	6.79	1431	0.14
Cyclosativene II	9.48	1362	0.07	6.84*†	1435	[0.44]
Neryl acetate	9.54	1367	0.02	10.05*†	1687	[22.78]
α-Copaene	9.62	1372	0.30	7.02	1448	0.29
Unknown [m/z 139, 69 (63), 83 (53), 43 (49), 41 (39)...]	9.66	1375	0.02	15.91*	2232	0.20
β-Cubebene	9.82*	1386	0.69	7.60	1492	0.01
Geranyl acetate	9.82*	1386	[0.69]	10.43†	1719	[3.59]
β-Elemene	9.86	1390	0.45	8.30*	1546	0.56

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$\gamma$ -4-Dimethylbenzenebutyral	9.96	1397	0.01			
Sesquithujene	10.07	1404	0.02	8.00*	1523	[0.22]
Dodecanal	10.10	1406	0.18	9.90	1674	0.13
$\beta$ -Caryophyllene	10.18	1413	0.08	8.30*	1546	[0.56]
$\alpha$ -Santalene	10.25	1418	0.02	8.10*†	1531	[0.48]
$\beta$ -Copaene	10.35	1425	0.13	8.20	1538	0.15
Unknown [m/z 43, 83 (81), 126 (64), 41 (53), 55 (43)...]	10.39	1428	0.04			
$\gamma$ -Elemene	10.43	1431	0.04	8.89	1593	0.05
trans- $\alpha$ -Bergamotene	10.47	1434	0.11	8.30*	1546	[0.56]
Sesquisabinene A	10.57*	1441	0.05	9.00*	1601	[0.11]
Unknown [m/z 41, 97 (78), 69 (77), 43 (71), 125 (67), 55 (56)... 168 (39)]	10.57*	1441	[0.05]	16.91	2337	0.02
Unknown [m/z 139, 69 (60), 41 (51), 43 (47), 119 (41)... 204 (1)]	10.61	1445	0.04			
$\alpha$ -Humulene	10.64	1447	0.05	9.13	1612	0.04
allo-Aromadendrene	10.74	1454	0.20	8.85	1589	0.22
Sesquisabinene B	10.76	1456	0.23	9.23	1619	0.27
(E)- $\beta$ -Farnesene	10.81	1459	0.25	9.42	1635	0.31
Selina-4,11-diene	10.97	1471	0.06	9.28	1623	0.09
$\gamma$ -Muurolene	10.99	1473	0.12	9.44	1637	0.20
Germacrene D	11.02	1475	0.42	9.65*	1654	[2.55]
$\gamma$ -Curcumene	11.07	1479	0.12	9.58	1648	0.12
ar-Curcumene	11.13*	1484	8.75	10.56†	1730	[15.39]
$\delta$ -Selinene	11.13*	1484	[8.75]	9.51	1642	0.08
Unknown [m/z 161, 91 (100), 105 (93), 79 (89), 93 (89), 107 (79)... 204 (34)]	11.17	1486	0.35	9.80	1666	0.45
Bicyclosesquiphellandrene?	11.24*	1492	1.44	9.71	1659	1.39
2-Tridecanone	11.24*	1492	[1.44]	10.97†	1764	[0.47]
$\alpha$ -Zingiberene	11.33	1498	13.75	9.99*†	1682	[22.78]
$\beta$ -Bisabolene	11.48*†	1510	7.73	10.05*†	1687	[22.78]
$\gamma$ -Cadinene	11.48*†	1510	[7.73]	10.18	1697	0.10
Cubebol	11.48*†	1510	[7.73]	12.40	1891	0.05
(3E,6E)- $\alpha$ -Farnesene	11.48*†	1510	[7.73]	10.41†	1717	3.59
trans-Calamenene	11.60	1519	0.04	11.04	1770	0.04
$\delta$ -Cadinene	11.62	1521	0.17	10.24	1702	0.18
$\beta$ -Sesquiphellandrene	11.67	1525	6.89	10.53†	1727	15.39
Unknown [m/z 177, 159 (67), 41 (43), 91 (43), 43 (41)... 220 (t)]	11.74*	1531	0.32	13.13	1958	0.10
(E)- $\gamma$ -Bisabolene	11.74*	1531	[0.32]	10.28	1706	0.20
Unknown [m/z 43, 177 (99), 93 (75), 41 (73), 91 (65), 107 (60)... 220 (4)]	11.79	1534	0.06	12.84	1931	0.04
$\alpha$ -Elemol	11.93	1545	0.19	13.89	2030	0.20
Germacrene B	11.98	1550	0.21	10.94*†	1762	[0.47]
cis-Sesquisabinene hydrate	12.01	1552	0.10	13.05	1950	0.11
(E)-Nerolidol	12.16	1564	0.22	13.64	2006	0.22

Laboratoire  
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Plus que des analyses... des conseils

1'-Hydroxyeugenol	12.29	1574	0.04	19.66	2650	0.04
ar-Turmerol	12.32	1576	0.10	15.20	2159	0.10
<i>trans</i> -Sesquisabinene hydrate	12.46	1587	0.17	14.16	2056	0.20
Unknown [m/z 132, 118 (89), 145 (85), 119 (79), 117 (60) ...]	12.48	1589	0.03	13.54	1996	0.03
Unknown [m/z 132, 118 (82), 145 (76), 119 (69), 117 (56), 91 (43), 135 (42) ...]	12.54	1594	0.03	13.62	2003	0.04
Junenol	12.70	1606	0.04	13.42	1985	0.01
10-epi-γ-Eudesmol	12.76*	1611	0.37	13.96	2036	0.09
<i>cis</i> -Zingiberenol	12.76*	1611	[0.37]	14.27	2066	0.33
Unknown [m/z 119, 85 (92), 105 (37), 120 (36), 91 (28) ... 218 (6)]	12.88	1621	0.12	16.05	2246	0.14
γ-Eudesmol	12.92	1624	0.04	14.75	2114	0.07
<i>trans</i> -Zingiberenol	12.96	1628	0.17	14.95	2134	0.23
β-Eudesmol	13.12	1641	0.25	15.24	2162	0.18
α-Eudesmol	13.16	1644	0.12	15.17	2155	0.06
(3E,5E)-7-Hydroxyfarnesene	13.35	1660	0.07	16.00	2241	0.06
Zingerone methyl ether	13.55	1677	0.01	18.87	2556	0.01
α-Bisabolol	13.59	1680	0.03	15.28	2167	0.04
4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	13.62	1682	0.14	15.53	2192	0.14
Unknown [m/z 137, 119 (70), 84 (69), 41 (68), 69 (53), 55 (45), 109 (38) ... 222 (2)]	13.66*	1685	0.21	15.91*	2232	[0.20]
Unknown [m/z 69, 107 (80), 41 (79), 79 (54), 93 (44), 91 (43) ... 220 (6)]	13.66*	1685	[0.21]			
Unknown [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31) ... 234? (t)]	13.72	1690	0.28	16.59	2302	0.31
(Z)-epi-β-Santalol	13.83	1700	0.02	17.08	2356	0.03
ar-Curcumene-15-al	13.94	1709	0.26	16.13	2255	0.08
Unknown [m/z 119, 91 (31), 105 (29), 41 (25), 133 (23), 158 (21) ...]	14.05	1719	0.07	16.65	2309	0.05
Oplopanone	14.18	1730	0.01	17.95	2452	0.02
Xanthorizzhol?	14.40	1749	0.06			
Unknown [m/z 105, 148 (87), 91 (83), 135 (78), 131 (76) ... 218 (21) ...]	14.43*	1752	0.03	18.98	2569	0.01
Unknown [m/z 82, 43 (85), 91 (67), 93 (66), 41 (66), 69 (59), 106 (47) ... 218 (5) ...]	14.43*	1752	[0.03]			
Unknown [m/z 43, 82 (100), 41 (86), 69 (76), 93 (72), 91 (72) ... 218 (4) ...]	14.49	1757	0.04			

Unknown [m/z 79, 41 (77), 135 (75), 69 (74), 43 (70)... 220 (9)]	14.58	1765	0.01	18.28	2488	0.02
Unknown [m/z 151, 41 (78), 95 (71), 109 (59), 55 (56), 69 (55)... 234 (15)]	14.66	1772	0.02			
Unknown [m/z 69, 41 (96), 43 (90), 109 (51), 55 (42), 81 (33)...]	14.86	1789	0.08	18.24	2484	0.03
Unknown [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2)...]	14.99	1801	0.35	19.90	2679	0.33
Unknown [m/z 43, 109 (77), 69 (65), 41 (60), 55 (51), 95 (44), 135 (43)... 207 (19)...]	15.65	1861	0.15			
Unknown [m/z 109, 69 (58), 43 (56), 41 (42), 135 (37), 55 (27)... 220 (5)]	15.71	1866	0.02	21.21	2842	0.01
Unknown [m/z 125, 41 (88), 109 (76), 69 (76), 151 (68), 55 (45), 95 (36)... 236 (21)]	15.91	1884	0.05	21.27	2850	0.15
Unknown [m/z 125, 41 (86), 151 (78), 109 (67), 69 (63)... 236 (22)]	16.12	1903	0.09	21.85	2924	0.02
Geranyl-para-cymene	16.62	1951	0.05	15.91*	2232	[0.20]
1-(4'-Hydroxy-3'-methoxyphenyl)-7-tetradecen-3-one?	22.55	2593	0.20			
<b>Total identified</b>		<b>94.74%</b>			<b>93.10%</b>	
<b>Total reported</b>		<b>97.07%</b>			<b>95.25%</b>	

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not 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