

**Article title:** Phytochemical screening of volatile organic compounds in three common coniferous tree species in terms of forest ecosystem services

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**Table S1.** BVOCs content in *Pinus nigra* presented as the mean values (%) with SD (%) and CV (%). Values detected in tested genotypes (Gen 1; Gen 2; Gen 3); The data shows content of primary BVOCs determined in fresh herbal material (Headspace-GC/MS 1\*) and essential oils determined in essential oil (GC/MS Fresh\*\* and GC/MS Dry\*\*\*)

Species	RI	Pinus nigra*			Pinus nigra**			Pinus nigra***			MEAN (%)	SD (%)	CV (%)
Genotype		Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3			
Monoterpene			89.4									29.4	
Hydrocarbons		90.07	5	88.69	24.61	24.54	24.53	28.17	30.6	30.41	47.90	3	0.61
			78.7									28.2	
$\alpha$ -Pinene	937	78.56	3	77.65	16.42	16.37	16.28	19.56	22.02	21.05	38.52	1	0.73
Camphene	952	2.54	2.45	2.34	0.42	0.59	0.56	1.15	1.12	1.23	1.38	0.80	0.58
$\beta$ -Pinene	979	3.36	2.92	2.41	3.15	3.27	3.17	2.64	2.83	3.23	3.00	0.30	0.10
$\beta$ -Myrcene	991	2.08	1.49	1.91	0.44	0.43	0.49	0.94	0.95	0.92	1.07	0.59	0.55
$\alpha$ -Phellandrene	100												
	5	0.00	0.00	0.00	0.05	0.06	0.07	0.14	0.09	0.08	0.05	0.05	0.83
3-Carene	101												
	1	0.00	0.00	0.00	1.78	1.39	1.43	0.24	0.19	0.12	0.57	0.69	1.21
$\alpha$ -Terpinene	101												
	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
o-Cymene	102												
	2	0.00	0.00	0.00	0.06	0.05	0.08	0.11	0.12	0.14	0.06	0.05	0.83
Limonene	103												
	0	2.22	2.42	2.81	0.94	1.18	1.07	1.74	1.95	2.11	1.83	0.61	0.33
$\beta$ -Ocimene	103												
	7	0.32	0.57	0.52	0.41	0.59	0.61	0.83	0.93	0.87	0.63	0.20	0.31
$\gamma$ -Terpinene	106												
	0	0.00	0.00	0.00	0.06	0.04	0.09	0.14	0.11	0.13	0.06	0.05	0.85
Terpinolene	108												
	8	0.99	0.87	1.05	0.88	0.57	0.68	0.68	0.29	0.53	0.73	0.23	0.32
Oxygenated Monoterpenes													
		0.00	0.00	0.00	4.33	3.98	3.91	7.47	7.67	6.22	3.73	2.94	0.79
1,8-Cineole	103												
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Linalool	109												
	9	0.00	0.00	0.00	0.32	0.29	0.26	0.14	0.16	0.12	0.14	0.12	0.83
Camphor	114												
		0.00	0.00	0.00	0.65	0.57	0.46	0.49	0.45	0.39	0.33	0.25	0.74

	5												
Camphene hydrate	114 8	0.00	0.00	0.00	0.18	0.15	0.13	0.12	0.17	0.14	0.10	0.07	0.73
Isoborneol	115 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pinocarvone	116 4	0.00	0.00	0.00	0.13	0.28	0.27	0.94	0.86	0.72	0.36	0.36	1.01
endo-Borneol	116 7	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.11	0.12	0.04	0.06	1.42
Terpinen-4-ol	117 7	0.00	0.00	0.00	0.65	0.59	0.47	0.48	0.48	0.41	0.34	0.25	0.73
$\alpha$ -Terpineol	118 9	0.00	0.00	0.00	0.07	0.09	0.12	0.27	0.31	0.34	0.13	0.13	0.97
Citronellol	122 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bornyl acetate	128 5	0.00	0.00	0.00	1.25	1.09	1.19	1.57	1.69	1.16	0.88	0.65	0.74
$\alpha$ - Terpinyl acetate	135 0	0.00	0.00	0.00	0.24	0.23	0.25	2.43	2.55	2.01	0.86	1.05	1.23
Eugenol	135 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-Pinocarvyl acetate	129 7	0.00	0.00	0.00	0.15	0.12	0.14	0.26	0.29	0.25	0.13	0.11	0.81
(-)-Myrtenol	121 3	0.00	0.00	0.00	0.41	0.36	0.39	0.43	0.41	0.38	0.26	0.19	0.71
Myrtenyl acetate	132 7	0.00	0.00	0.00	0.28	0.21	0.23	0.21	0.19	0.18	0.14	0.11 24.1	0.73
Sesquiterpene hydrocarbons		9.04	10.2	10.57	60.99	66.33	65.1	58.44	55.74	58.13	43.84	8	0.55
$\alpha$ -Copaene	137 7	0.00	0.00	0.00	0.22	0.45	0.37	0.26	0.19	0.18	0.19	0.15	0.83
$\alpha$ -Cubebene	137 7	0.00	0.00	0.00	0.38	0.25	0.32	0.34	0.46	0.42	0.24	0.18	0.74
Longifolene	140 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-Caryophyllene	141 9	3.25	4.46	4.61	13.62	16.98	14.76	12.68	13.51	13.64	10.83	4.90	0.45
$\beta$ -Copaene	143 2	0.00	0.00	0.00	0.52	0.64	0.61	0.49	0.52	0.58	0.37	0.27	0.72
cis- $\beta$ -Farnesene	144 4	0.00	0.00	0.00	0.56	0.53	0.51	0.37	0.33	0.36	0.30	0.22	0.75
Humulene	145 4	0.38	0.58	0.71	3.07	4.42	5.47	3.16	4.62	4.37	2.98	1.84	0.62
allo-Aromadendrene	146 0	0.00	0.00	0.00	0.08	0.07	0.05	0.09	0.11	0.12	0.06	0.05	0.78
$\gamma$ -Gurjunene	147 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$\gamma$ -Muuroloene	147 7	0.38	0.21	0.27	1.25	1.73	1.48	1.09	0.98	0.96	0.93	0.51	0.55
$\gamma$ -Himachalene	147 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Germacrene D	148 1	4.24	4.17	4.27	28.42	29.37	28.78	26.95	25.16	25.41	19.64	10.9 8	0.56
$\alpha$ - Muuroloene	149 9	0.26	0.31	0.28	4.62	3.89	4.18	3.12	2.51	2.83	2.44	1.65	0.67
$\alpha$ - Farnesene	150 8	0.00	0.00	0.00	0.49	0.53	0.42	0.49	0.44	0.45	0.31	0.22	0.71
$\beta$ - Cadinene	151 8	0.53	0.47	0.43	7.03	6.82	7.63	8.67	6.27	8.13	5.11	3.34	0.65
$\alpha$ -Calacorene	154 2	0.00	0.00	0.00	0.73	0.65	0.52	0.73	0.64	0.68	0.44	0.32	0.72
$\gamma$ -Cadinene	151 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cubebol	151 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxygenated sesquiterpenes		0.00	0.00	0.00	6.03	4.882	6.06	5.84	5.93	5.71	3.83	2.73	0.71

trans - Nerolidol	456 4	0.00	0.00	0.00	0.14	0.012	0.17	0.12	0.17	0.15	0.08	0.07	0.88
Spathulenol	157 6	0.00	0.00	0.00	0.23	0.19	0.21	0.38	0.29	0.31	0.18	0.14	0.77
caryophyllene oxide	158 1	0.00	0.00	0.00	0.86	0.57	0.83	0.85	0.86	0.82	0.53	0.39	0.72
Cubenol	164 2	0.00	0.00	0.00	0.21	0.19	0.11	0.22	0.24	0.21	0.13	0.10	0.75
Epicubenol	162 7	0.00	0.00	0.00	0.24	0.21	0.19	0.18	0.15	0.17	0.13	0.09	0.73
epi- $\alpha$ -muurolol	164 2	0.00	0.00	0.00	1.83	1.57	1.92	1.62	1.56	1.49	1.11	0.80	0.72
$\alpha$ -Cadinol	165 3	0.00	0.00	0.00	1.53	1.36	1.57	1.23	1.31	1.29	0.92	0.66	0.72
Aliphatic compounds		0.00	0.00	0.00	0.99	0.78	1.06	1.24	1.35	1.27	0.74	0.55	0.74
Nonanal	110 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n-Dodecanol	147 2	0.00	0.00	0.00	0.16	0.12	0.19	0.21	0.19	0.17	0.12	0.08	0.74
Hexadecane	160 0	0.00	0.00	0.00	0.59	0.47	0.61	0.72	0.69	0.71	0.42	0.31	0.73
Heptadecane	170 0	0.00	0.00	0.00	0.24	0.19	0.26	0.31	0.47	0.39	0.21	0.17	0.80
Nonadecane	190 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eicosane	200 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heneicosane	210 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL OF IDENTIFIED COMPOUND S</b>		198.22	199. 2	198.5 2	192.9 1	200.2 4	200.2 6	201.0 8	201.2 3	202.2 1			

**Table S2.** BVOCs content in *Pinus sylvestris* presented as the mean values with SD and CV.

Values detected in tested genotypes (Gen 1; Gen 2; Gen 3); The data shows content of primary BVOCs determined in fresh herbal material (Headspace-GC/MS 1\*) and essential oils determined in essential oil (GC/MS Fresh\*\* and GC/MS Dry\*\*\*)

Species	RI	Pinus sylvestris*			Pinus sylvestris**			Pinus sylvestris***			MEAN (%)	SD (%)	CV (%)
Genotype		Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3			
Monoterpene Hydrocarbons		91.72	92.99	93.66	93.36	91.52	93.18	26.09	27.72	33.04	71.48	30.13	0.42
$\alpha$ -Pinene	937	61.76	64.22	60.27	64.04	64.31	65.85	14.1	16.07	17.59	47.58	22.45	0.47
Camphene	952	6.32	5.19	10.01	7.72	7.2	6.75	1.27	1.32	2.31	5.34	2.90	0.54
$\beta$ -Pinene	979	15.52	15.07	15.68	13.49	16.06	14.21	5.33	6.17	8.23	12.20	4.10	0.34
$\beta$ -Myrcene	991	2.09	2.19	2.7	2.15	0.84	1.12	1.35	0.95	1.33	1.64	0.62	0.38
$\alpha$ -Phellandrene	1005	0.11	0.2	0.19	0.21	0.18	0.19	0.06	0.05	0.08	0.14	0.06	0.44
3-Carene	1011	2.28	2.76	1.97	2.25	0.79	1.92	1.22	1.36	1.75	1.81	0.57	0.32
$\alpha$ -Terpinene	1017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
o-Cymene	1022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Limonene	1030	2.08	2.1	2.21	2.13	1.3	2.08	1.86	0.97	0.79	1.72	0.52	0.30
$\beta$ -Ocimene	1037	1.18	0.94	0.19	0.83	0.25	0.49	0.47	0.35	0.42	0.57	0.32	0.56
$\gamma$ -Terpinene	1060	0.11	0.09	0.12	0.13	0.12	0.15	0.06	0.09	0.07	0.10	0.03	0.26
Terpinolene	1088	0.27	0.23	0.32	0.41	0.47	0.42	0.37	0.39	0.47	0.37	0.08	0.21
Oxygenated Monoterpenes		0.15	0.09	0.1	0.11	0.08	0.12	5.13	4.58	6.1	1.83	2.46	1.35
1,8-Cineole	1032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Linalool	1099	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.11	0.13	0.04	0.06	1.42
Camphor	1145	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.15	0.17	0.05	0.08	1.42
Camphene hydrate	1148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Isoborneol	1157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pinocarvone	1164	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.18	0.16	0.05	0.07	1.45
endo-Borneol	1167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terpinen-4-ol	1177	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.15	0.14	0.06	0.08	1.45
$\alpha$ -Terpineol	1189	0.15	0.09	0.1	0.11	0.08	0.12	0.48	0.41	0.43	0.22	0.16	0.72
Citronellol	1228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bornyl acetate	1285	0.00	0.00	0.00	0.00	0.00	0.00	3.74	3.27	4.79	1.31	1.89	1.44
$\alpha$ -Terpinyl acetate	1350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eugenol	1357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-Pinocarvyl acetate	1297	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.31	0.28	0.10	0.14	1.42

(-)-Myrtenol	1213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myrtenyl acetate	1327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sesquiterpene hydrocarbons		6.83	6.46	5.5	5.38	5.46	5.15	47.72	47.25	45.13	19.43	19.30	0.99
$\alpha$ -Copaene	1377	0.25	0.24	0.14	0.21	0.19	0.22	2.73	2.75	2.49	1.02	1.16	1.13
$\alpha$ -Cubebene	1377	0.08	0.11	0.14	0.13	0.17	0.13	0.84	0.86	0.91	0.37	0.35	0.94
Longifolene	1405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-Caryophyllene	1419	2.81	2.89	2.25	2.21	2.11	1.52	6.18	7.36	6.43	3.75	2.11	0.56
$\beta$ -Copaene	1432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis- $\beta$ -Farnesene	1444	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Humulene	1454	0.38	0.44	0.31	0.29	0.41	0.36	3.79	4.17	3.74	1.54	1.67	1.08
allo-Aromadendrene	1460	0.12	0.13	0.12	0.16	0.09	0.11	0.83	0.79	0.81	0.35	0.33	0.93
$\gamma$ -Gurjunene	1473	0.69	0.56	0.67	0.53	0.62	0.59	0.28	0.31	0.38	0.51	0.14	0.28
$\gamma$ -Muurolene	1477	0.00	0.00	0.00	0.00	0.00	0.00	11.62	11.11	11.48	3.80	5.38	1.41
$\gamma$ -Himachalene	1477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Germacrene D	1481	0.34	0.23	0.29	0.31	0.28	0.31	2.06	1.98	1.16	0.77	0.72	0.93
$\alpha$ -Muurolene	1499	0.23	0.24	0.29	0.24	0.27	0.23	2.71	2.61	2.86	1.08	1.17	1.09
$\alpha$ -Farnesene	1508	0.29	0.19	0.14	0.11	0.09	0.17	1.92	1.87	1.69	0.72	0.79	1.10
$\beta$ -Cadinene	1518	1.64	1.43	1.15	1.19	1.23	1.51	1.75	1.64	1.59	1.46	0.21	0.14
$\alpha$ -Calacorene	1542	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.79	0.75	0.26	0.37	1.42
$\gamma$ -Cadinene	1513	0.00	0.00	0.00	0.00	0.00	0.00	7.84	7.1	6.47	2.38	3.38	1.42
Cubebol	1516	0.00	0.00	0.00	0.00	0.00	0.00	4.35	3.91	4.37	1.40	1.99	1.42
Oxygenated sesquiterpenes		0.00	0.00	0.00	0.00	0.00	0.00	20.3	20.37	19.06	6.64	9.39	1.42
trans - Nerolidol	4564	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.11	1.05	0.35	0.50	1.42
Spathulenol	1576	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.65	0.96	0.26	0.38	1.44
caryophyllene oxide	1581	0.00	0.00	0.00	0.00	0.00	0.00	1.41	1.52	1.48	0.49	0.69	1.42
Cubenol	1642	0.00	0.00	0.00	0.00	0.00	0.00	1.18	1.21	1.19	0.40	0.56	1.41
Epicubenol	1627	0.00	0.00	0.00	0.00	0.00	0.00	1.04	1.02	1.01	0.34	0.48	1.41
epi- $\alpha$ -muurolol	1642	0.00	0.00	0.00	0.00	0.00	0.00	4.38	4.57	3.98	1.44	2.04	1.42
$\alpha$ -Cadinol	1653	0.00	0.00	0.00	0.00	0.00	0.00	7.11	7.13	6.29	2.28	3.23	1.42
Aliphatic compounds		0.00	0.00	0.00	0.00	0.00	0.00	1.69	1.58	1.55	0.54	0.76	1.42
Nonanal	1104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n-Dodecanol	1472	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.69	0.72	0.24	0.34	1.42
Hexadecane	1600	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.51	0.49	0.16	0.23	1.41
Heptadecane	1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nonadecane	1900	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.23	0.21	0.08	0.12	1.43
Eicosane	2000	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.15	0.13	0.05	0.07	1.43
Heneicosane	2100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OF IDENTIFIED COMPOUNDS		197.4	199.08	198.52	197.7	194.12	196.9	198.48	199.84	206.66	198.74	124.58	48.21

**Table S3.** BVOCs content in *Picea abies* presented as the mean values with SD and CV. Values detected in tested genotypes (Gen 1; Gen 2; Gen 3); The data shows content of primary BVOCs determined in fresh herbal material (Headspace-GC/MS 1\*) and essential oils determined in essential oil (GC/MS Fresh\*\* and GC/MS Dry\*\*\*)

Species	RI	Picea abies*			Picea abies**			Picea abies***			MEAN (%)	SD (%)	CV (%)
Genotype		Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3	Gen. 1	Gen. 2	Gen. 3			
Monoterpene Hydrocarbons		90.01	84.86	89.81	0.83	0.52	0.39	0.00	0.00	0.00	29.60	41.48	1.40
$\alpha$ -Pinene	937	23.59	21.46	23.29	0.00	0.00	0.00	0.00	0.00	0.00	7.59	10.75	1.42
Camphene	952	24.98	23.65	24.78	0.83	0.52	0.39	0.00	0.00	0.00	8.35	11.41	1.37
$\beta$ -Pinene	979	13.63	13.69	15.21	0.00	0.00	0.00	0.00	0.00	0.00	4.73	6.70	1.42
$\beta$ -Myrcene	991	5.64	6.78	4.74	0.00	0.00	0.00	0.00	0.00	0.00	1.91	2.74	1.44
$\alpha$ -Phellandrene	1005	0.36	0.73	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.33	1.52
3-Carene	1011	0.33	0.63	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.24	1.48
$\alpha$ -Terpinene	1017	0.27	0.24	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	1.42
o-Cymene	1022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Limonene	1030	19.75	16.11	18.14	0.00	0.00	0.00	0.00	0.00	0.00	6.00	8.53	1.42
$\beta$ -Ocimene	1037	0.48	0.38	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.23	1.44
$\gamma$ -Terpinene	1060	0.31	0.39	0.6	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.22	1.50
Terpinolene	1088	0.67	0.8	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.37	1.43
Oxygenated Monoterpenes		6.78	11.37	12.82	23.26	25.48	27.21	26.06	26.67	40.64	22.25	9.75	0.44
1,8-Cineole	1032	4.9	4.54	7.11	0.00	0.00	0.00	0.00	0.00	0.00	1.84	2.68	1.46
Linalool	1099	0.16	0.53	0.33	0.21	0.18	0.11	0.00	0.00	0.00	0.17	0.17	0.98
Camphor	1145	0.19	2.02	2.53	0.09	0.12	0.09	0.00	0.00	0.00	0.56	0.93	1.65
Camphene hydrate	1148	0.00	0.00	0.00	1.58	1.18	1.07	0.96	0.84	5.35	1.22	1.56	1.28
Isoborneol	1157	0.00	0.00	0.00	0.09	0.17	0.12	0.00	0.00	0.00	0.04	0.06	1.48
Pinocarvone	1164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
endo-Borneol	1167	0.43	0.87	0.64	5.25	7.58	8.37	4.49	5.03	8.63	4.59	3.11	0.68
Terpinen-4-ol	1177	0.11	0.28	0.36	0.25	0.34	0.8	0.00	0.00	1.29	0.38	0.39	1.03
$\alpha$ -Terpineol	1189	0.41	0.32	0.67	1.18	2.13	2.31	1.43	1.78	6.57	1.87	1.80	0.96
Citronellol	1228	0.00	0.00	0.00	0.65	0.87	0.72	0.00	0.00	0.00	0.25	0.36	1.43
Bornyl acetate	1285	0.58	2.81	1.18	12.82	11.6	12.56	17.35	17.66	17.53	10.45	6.69	0.64
$\alpha$ -Terpinyl acetate	1350	0.00	0.00	0.00	0.96	1.02	0.91	1.83	1.36	1.27	0.82	0.63	0.77
Eugenol	1357	0.00	0.00	0.00	0.18	0.29	0.15	0.00	0.00	0.00	0.07	0.10	1.50
trans-Pinocarvyl acetate	1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(-)-Myrtenol	1213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myrtenyl acetate	1327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sesquiterpene hydrocarbons		1.31	2.34	1.33	13.19	14.94	15.56	27.25	25.62	24.54	14.01	9.91	0.71
$\alpha$ -Copaene	1377	0.00	0.00	0.00	0.52	0.58	1.08	1.05	1.12	1.69	0.67	0.57	0.85
$\alpha$ -Cubebene	1377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Longifolene	1405	0.32	0.2	0.15	0.21	0.32	0.42	1.45	1.07	1.24	0.60	0.48	0.80
trans-Caryophyllene	1419	0.53	0.96	0.65	0.38	0.46	0.63	8.56	8.27	7.98	3.16	3.62	1.15

β- Copaene	1432	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-β-Farnesene	1444	0.00	0.00	0.00	3.67	3.15	3.64	2.01	1.95	1.36	1.75	1.44	0.82
Humulene	1454	0.15	0.45	0.31	0.52	1.12	1.93	5.35	4.47	4.24	2.06	1.94	0.94
allo-Aromadendrene	1460	0.00	0.00	0.00	2.95	1.25	0.98	0.00	0.00	0.00	0.58	0.96	1.66
γ-Gurjunene	1473	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ-Muurolene	1477	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ-Himachalene	1477	0.00	0.00	0.00	0.36	0.68	0.63	0.00	0.00	0.00	0.19	0.27	1.48
Germacrene D	1481	0.07	0.21	0.09	0.29	0.32	0.31	1.89	1.94	1.69	0.76	0.77	1.02
α- Muurolene	1499	0.00	0.00	0.00	0.27	0.4	0.32	2.74	2.87	3.17	1.09	1.31	1.21
α- Farnesene	1508	0.00	0.00	0.00	1.02	3.19	0.27	0.88	0.76	1.58	0.86	0.97	1.14
β- Cadinene	1518	0.24	0.52	0.13	2.01	2.45	3.7	3.32	3.17	1.59	1.90	1.29	0.68
α-Calacorene	1542	0.00	0.00	0.00	0.99	1.02	1.65	0.00	0.00	0.00	0.41	0.60	1.48
γ-Cadinene	1513	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cubebol	1516	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxygenated sesquiterpenes		0.00	0.00	0.00	0.00	66.75	63.91	53.57	53.24	40.22	38.01	27.90	0.73
trans - Nerolidol	0.00	0.00	0.00	0.00	2.53	3.49	1.85	1.64	1.34	1.17	1.34	1.15	0.86
Spathulenol	0.00	0.00	0.00	0.00	14.02	11.47	14.73	12.4	12.8	9.48	8.32	6.05	0.73
caryophyllene oxide	0.00	0.00	0.00	0.00	8.37	8.23	4.46	6.63	5.38	5.03	4.23	3.24	0.77
Cubenol	0.00	0.00	0.00	0.00	1.87	2.65	1.93	1.07	1.14	1.03	1.08	0.90	0.84
Epicubenol	0.00	0.00	0.00	0.00	0.31	0.48	0.74	0.54	0.35	0	0.27	0.27	0.99
epi-α-muurolol	0.00	0.00	0.00	0.00	11.73	10.79	8.48	11.04	14.19	8.23	7.16	5.33	0.74
α-Cadinol	0.00	0.00	0.00	0.00	18.21	17.72	20.08	7.87	6.98	5.14	8.44	7.78	0.92
Aliphatic compounds	0.00	0.00	0.00	0.00	5.96	5.82	6.19	5.53	5.07	5.07	3.58	2.62	0.73
Nonanal	0.00	0.00	0.00	0.00	0.43	0.98	0.78	0.97	0.88	0.67	0.52	0.40	0.77
n-Dodecanol	0.00	0.00	0.00	0.00	0.55	0.41	0.56	0.54	0.47	0.11	0.29	0.24	0.83
Hexadecane	0.00	0.00	0.00	0.00	1.38	2.36	3.15	2.52	2.31	2.11	1.54	1.17	0.76
Heptadecane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nonadecane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eicosane	0.00	0.00	0.00	0.00	0.58	1.39	1.02	1.18	1.11	1.5	0.75	0.58	0.78
Heneicosane	0.00	0.00	0.00	0.00	0.75	0.82	0.31	0.98	0.76	0.68	0.48	0.38	0.79
TOTAL OF IDENTIFIED COMPOUNDS		196.2	197.14	207.92	203.4	215.38	214.14	213.76	211.06	210.8	207.76	193.48	56.72