

**Table S3.** Volatile emissions of compounds detected in the headspace of full-sized bur clusters collected in early September from Varnavas (SBV), Fenos (SBF) and Kastanitsa (SBK), expressed in  $\mu\text{g h}^{-1} \pm \text{SE}$ .

RI <sup>1</sup>	RI <sup>2</sup>	Compound	SBV	SBF	SBK	X <sup>2</sup>	df, n	p
850	849	(Z)-3-Hexen-1-ol	0.68±0.25	0.42±0.07	0.34±0.03	0.822	2, 17	0.663
924	925	$\alpha$ -thujene	0.05±0.02					
932	929	$\alpha$ -pinene	0.64±0.28b <sup>3</sup>	0.18±0.03b	0.01±0.00a	9.266	2, 18	0.010
946	947	Camphene	0.07±0.02	0.07±0.04		1.000	1, 13	0.317
969	970	Sabinene	13.41±6.34	4.34±0.89	0.77±0.29	4.984	2, 18	0.083
974	978	$\beta$ -pinene	1.40±0.65	0.35±0.06		0.331	1, 14	0.565
988	988	$\beta$ -Myrcene	3.36±1.69	0.68±0.14	0.02±0.00	5.322	2, 16	0.070
981	988	6-Methyl-5-hepten-2-one			0.07±0.00			
1004	1008	(Z)-3-Hexenyl acetate	0.62±0.25	0.67±0.29	0.39±0.10	0.172	2, 18	0.918
1010	1013	(E)-2-Hexenyl acetate	0.05±0.01					
1014	1016	$\alpha$ -Terpinene	0.10±0.05	0.11±0.08		0.240	1, 9	0.624
1020	1025	p-cymene	0.12±0.08	0.18±0.16		<0.001	1, 5	1.000
1030	1029	Limonene	0.92±0.47b	0.45±0.16b	0.07±0.01a	7.627	2, 18	0.022
1031	1030	$\beta$ -phelladrene	0.24±0.11	0.08±0.05		1.200	1, 11	0.273
1026	1031	eucalyptol	0.24±0.09	0.07±0.05		3.333	1, 11	0.068
1032	1035	(Z)- $\beta$ -Ocimene	1.37±0.79b	0.12±0.05a		4.000	1, 13	0.046
1044	1048	(E)- $\beta$ -Ocimene	7.56±3.64	2.77±1.00	0.03±0.00	5.852	2, 16	0.054
	1055	Unknown 1	0.08±0.02					
1059	1059	$\gamma$ -Terpinene	0.21±0.12	0.13±0.06		0.641	1, 12	0.423
1086	1085	$\alpha$ -terpinolene	0.08±0.03	0.09±0.03		0.125	1, 7	0.724
1100	1107	n-Nonanal	0.13±0.06	0.05±0.02	0.01±0.00	4.711	2, 16	0.095
1117	1117	(E)-DMNT	0.21±0.06b	0.04±0.01a		9.800	1, 14	0.002
1128	1128	(E)-Allo-ocimene	0.39±0.26					
1184	1184	4-Terpineol	0.23±0.18					
1187	1192	n-dodecene	0.05±0.02	0.07±0.02		0.033	1, 11	0.855
1200	1199	n-Dodecane	0.03±0.02	0.04±0.01		0.556	1, 8	0.456
1209	1209	Decanal	0.12±0.05	0.09±0.04	0.04±0.01	1.527	2, 13	0.466
	1258	Unknown 3	0.05±0.01	0.06±0.02	0.01±0.01	2.308	2, 12	0.315
	1267	m-Ethylacetophenone	0.12±0.02a	0.22±0.04b	0.15±0.02a,b	7.668	2, 16	0.022
1279	1288	p-Ethylacetophenone	0.14±0.03a	0.33±0.05b	0.20±0.02a,b	9.617	2, 17	0.008
1290	1291	n-Tridecene		0.04±0.02				
1300	1300	n-Tridecane		0.02±0.01				
1400	1400	n-Tetradecane		0.02±0.01				
1407	1409	Longifolene	0.05±0.01					
1419	1419	(E)- $\beta$ -Caryophyllene	0.10±0.04b	0.10±0.04b	0.03±0.00a	6.349	2, 17	0.042
1484	1480	Germacrene D	0.06±0.01					
	1491	sesquiterpene		0.05±0.00				
1505	1504	(E,E)- $\alpha$ -Farnesene	0.07±0.01a	0.15±0.03b		4.121	1, 12	0.042
1582	1583	Caryophyllene oxide	0.07±0.01					
1828	1830	Isopropyl myristate			0.18±0.01			

<sup>1</sup> RI: Retention Index values obtained from Adams [20] and the NIST database [21].

<sup>2</sup> RT: Retention Index values were calculated relative to C<sub>7–30</sub> n-alkanes on a column with 5% diphenyl/95% dimethyl polysiloxane stationary phase.

<sup>3</sup> Different letters within a row, are significantly differ based on the Kruskal–Wallis test (p = 0.05).