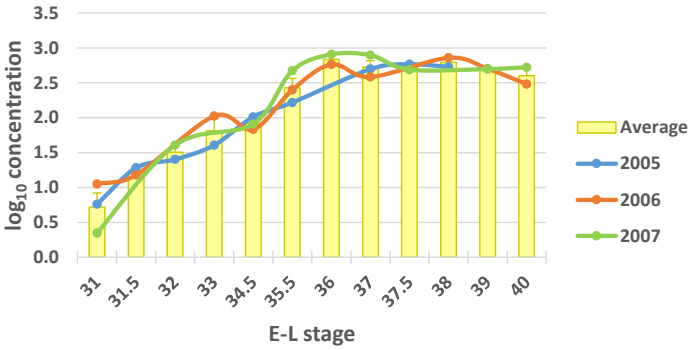
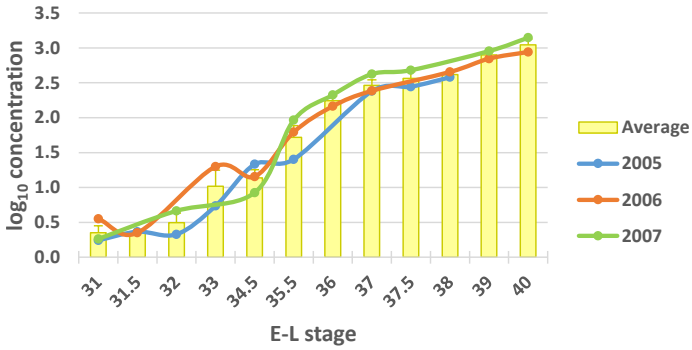
Free linalool



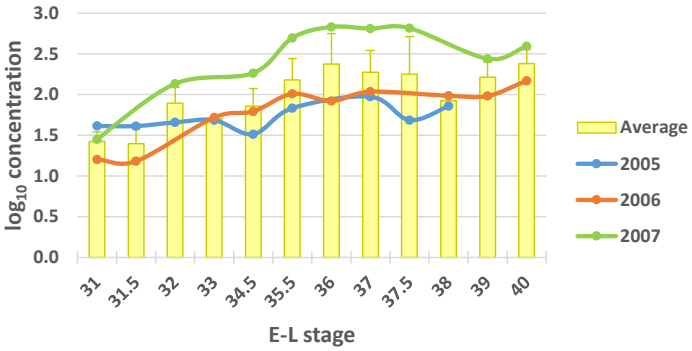
2005-2006	2005-2007	2006-2007
0.95**	0.96**	0.98**

Bound linalool



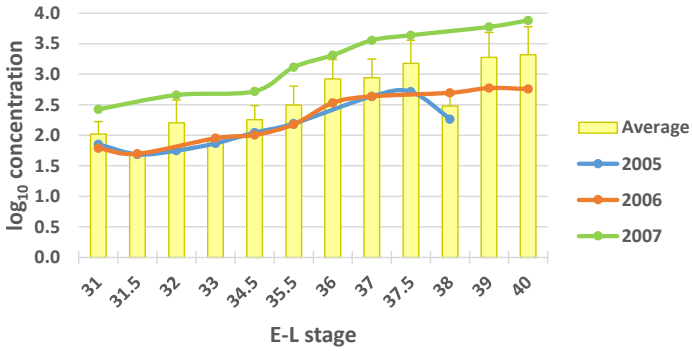
2005-2006	2005-2007	2006-2007
0.96**	0.95**	0.99**

Free geraniol



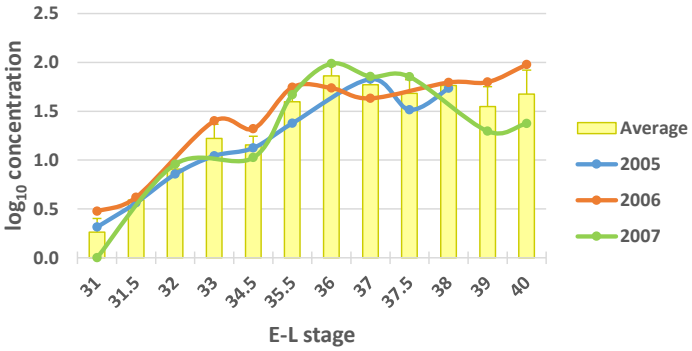
2005-2006	2005-2007	2006-2007
NS	NS	0.91**

Bound geraniol



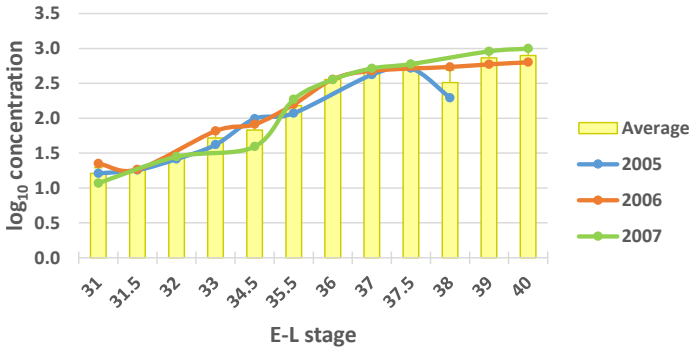
2005-2006	2005-2007	2006-2007
*0.91***	0.96**	0.98**

Free nerol



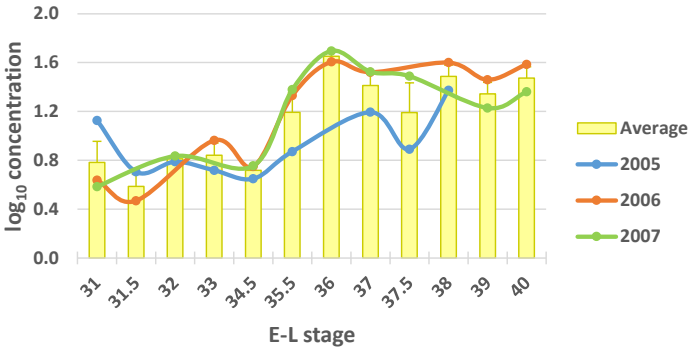
2005-2006	2005-2007	2006-2007
0.94**	0.97**	0.86*

Bound nerol



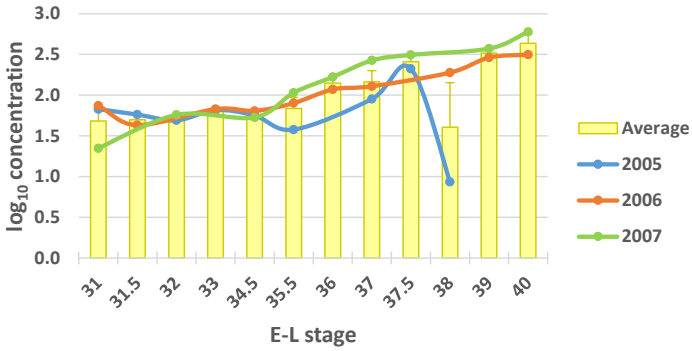
2005-2006	2005-2007	2006-2007
*0.96***	0.96**	0.99**

Free *trans*-8-HO-linalool



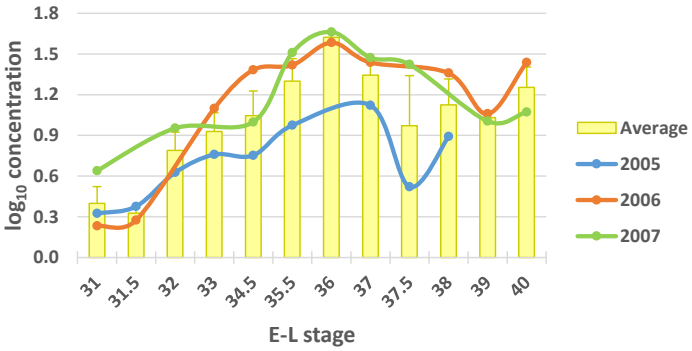
2005-2006	2005-2007	2006-2007
NS	NS	0.95**

Bound *trans*-8-HO-linalool



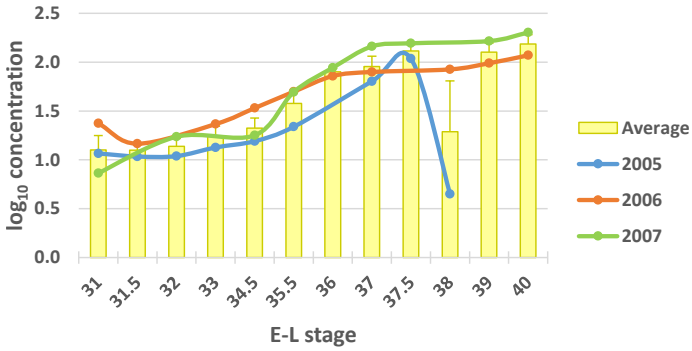
2005-2006	2005-2007	2006-2007
NS	NS	0.88**

Free *cis*-8-HO-linalool



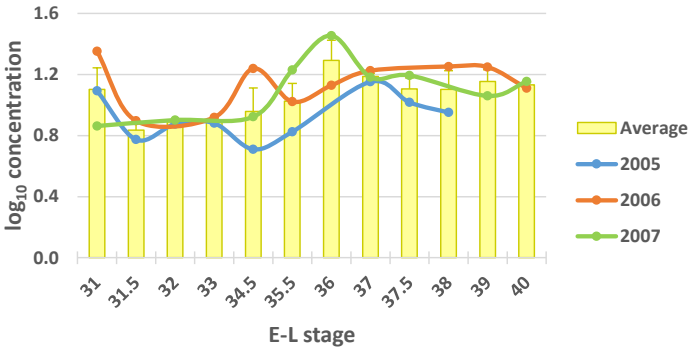
2005-2006	2005-2007	2006-2007
0.94**	NS	0.80*

Bound *cis*-8-HO-linalool



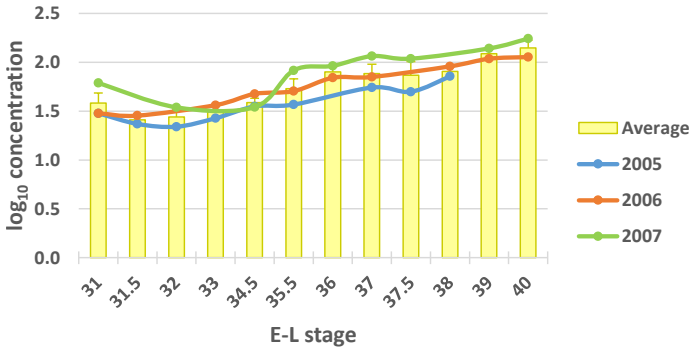
2005-2006	2005-2007	2006-2007
NS	0.94**	0.99**

Free OxA



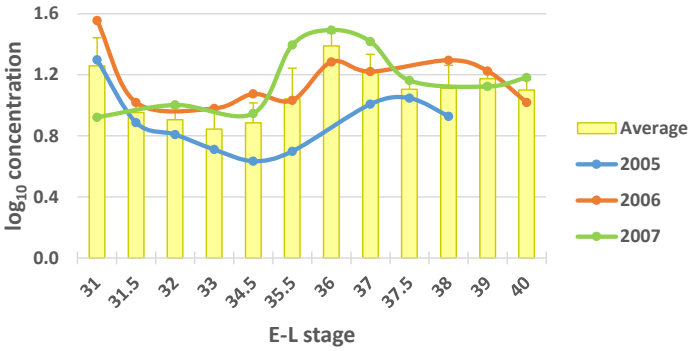
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound OxA



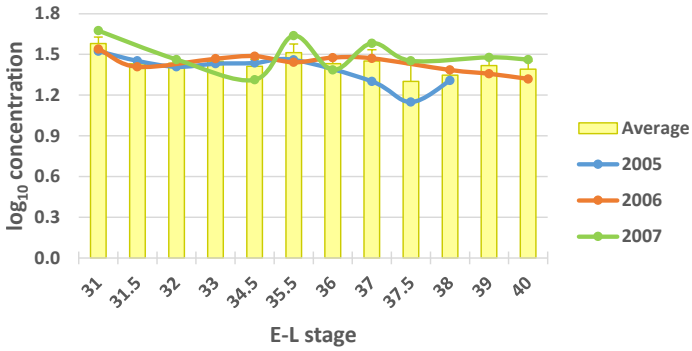
2005-2006	2005-2007	2006-2007
0.97**	0.83*	0.80*

Free OxB



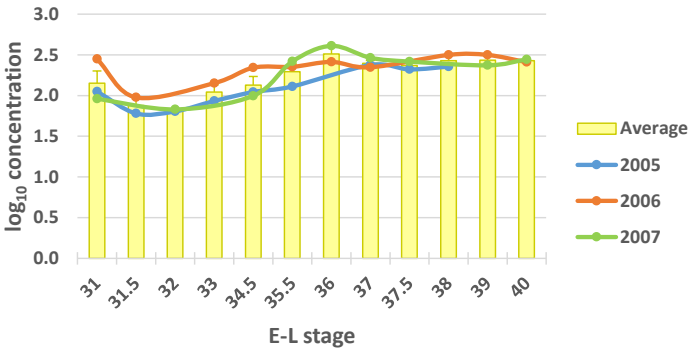
2005-2006	2005-2007	2006-2007
0.89**	NS	NS

Bound OxB



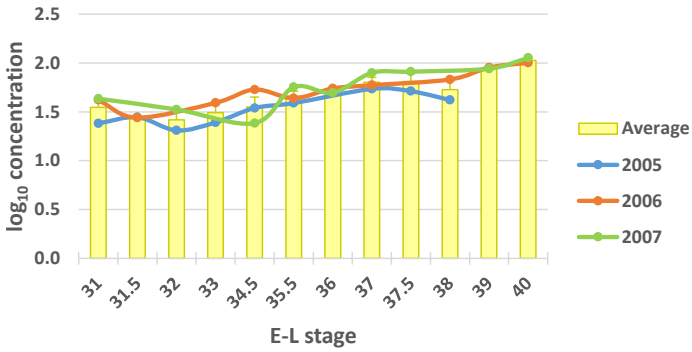
2005-2006	2005-2007	2006-2007
NS	NS	NS

Free OxC



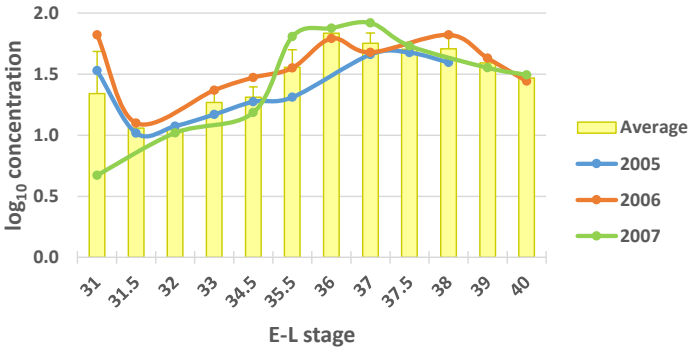
2005-2006	2005-2007	2006-2007
0.79*	0.88*	NS

Bound OxC



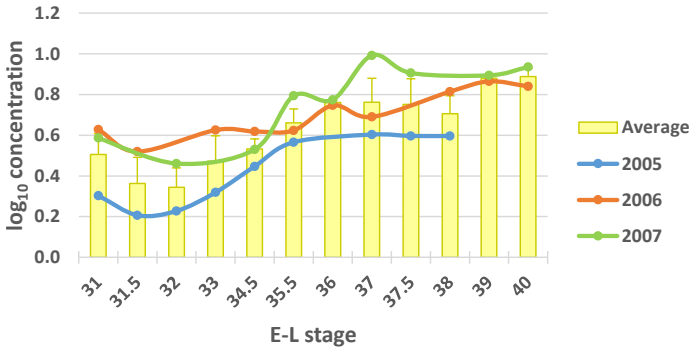
2005-2006	2005-2007	2006-2007
NS	NS	NS

Free OxD



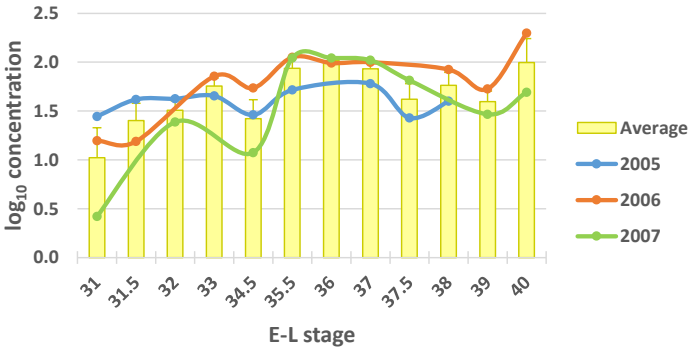
2005-2006	2005-2007	2006-2007
0.93**	NS	NS

Bound OxD



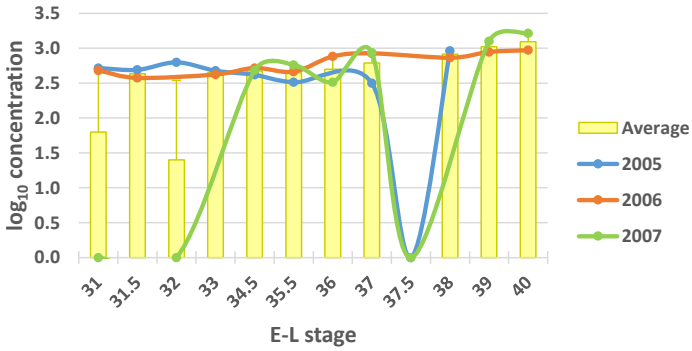
2005-2006	2005-2007	2006-2007
NS	0.89*	NS

Free *trans*-geranic acid



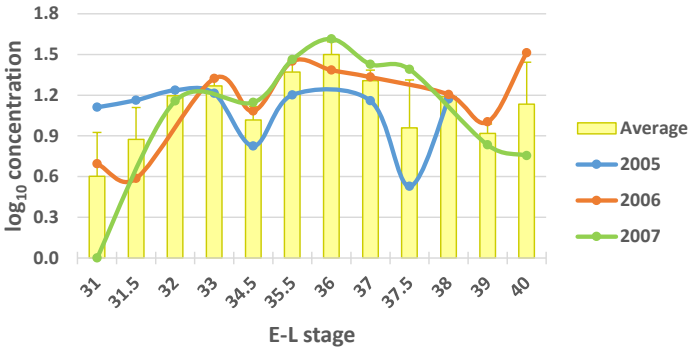
2005-2006	2005-2007	2006-2007
NS	NS	0.86*

Bound *trans*-geranic acid



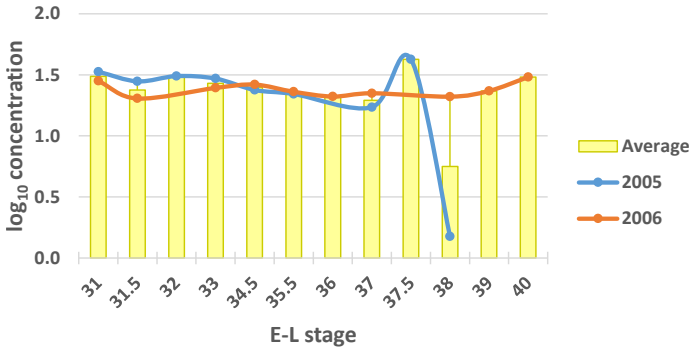
2005-2006	2005-2007	2006-2007
NS	*NS*	*NS*

Free 7-HO-geraniol



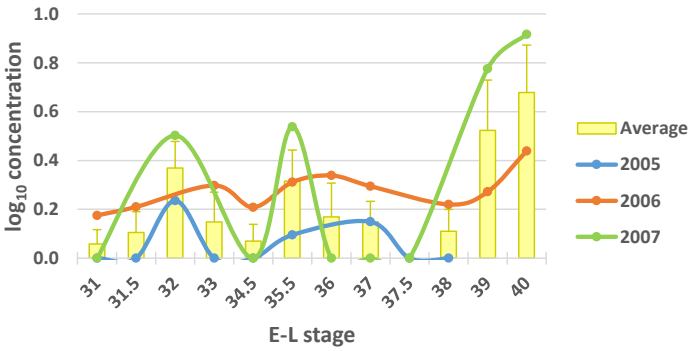
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 7-HO-geraniol



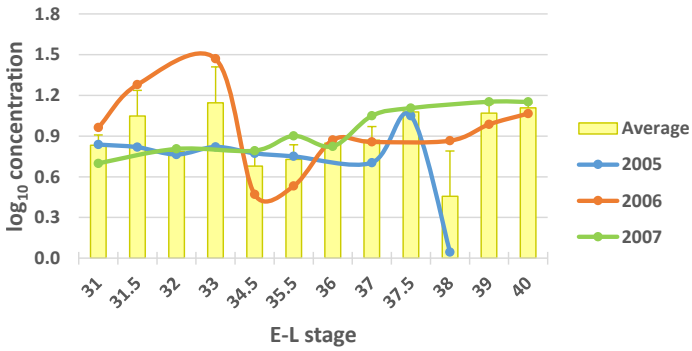
2005-2006	2005-2007	2006-2007
NS	NA	NA

Free 7-HO-nerol



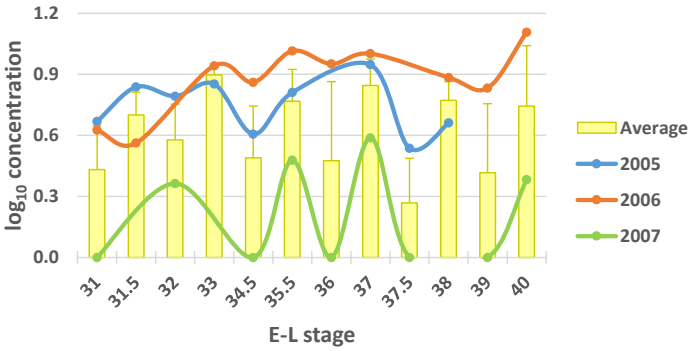
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 7-HO-nerol



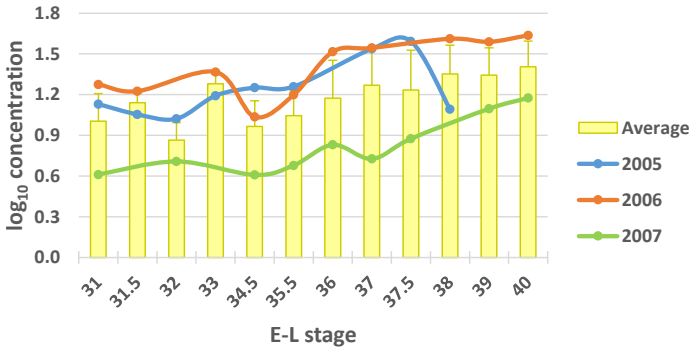
2005-2006	2005-2007	2006-2007
NS	NS	NS

Free citronellol



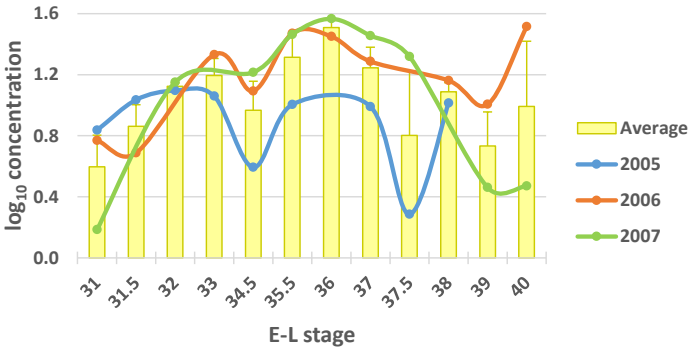
2005-2006	2005-2007	2006-2007
NS	0.95**	NS

Bound citronellol



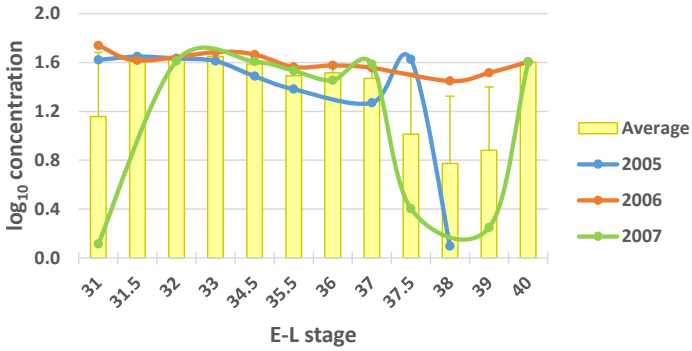
2005-2006	2005-2007	2006-2007
NS	NS	0.81*

Free 7-HO-citronellol



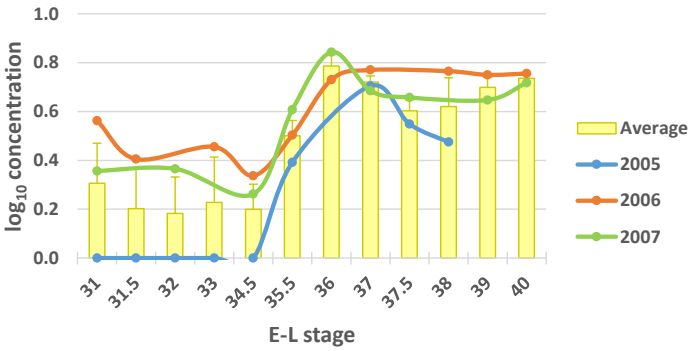
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 7-HO-citronellol



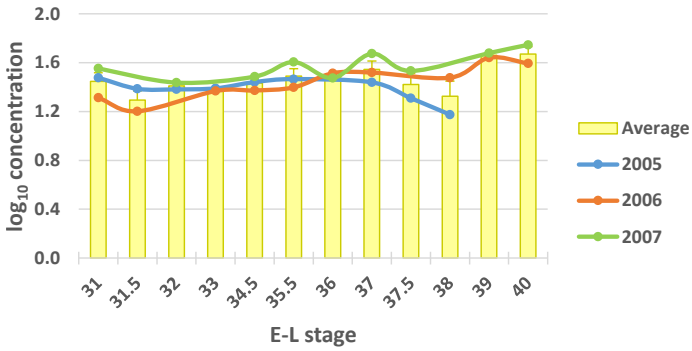
2005-2006	2005-2007	2006-2007
*0.84**	NS	NS

Free α-terpineol



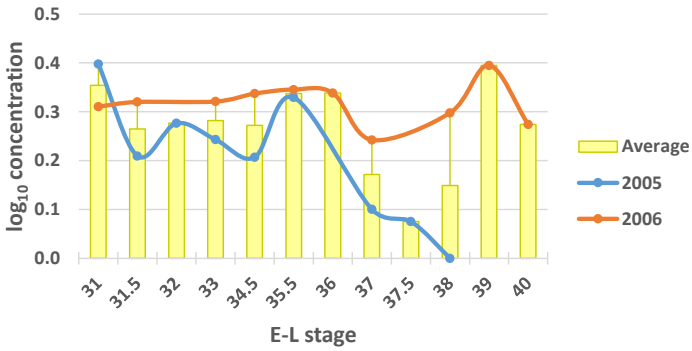
2005-2006	2005-2007	2006-2007
0.84*	0.96**	0.84*

Bound α-terpineol



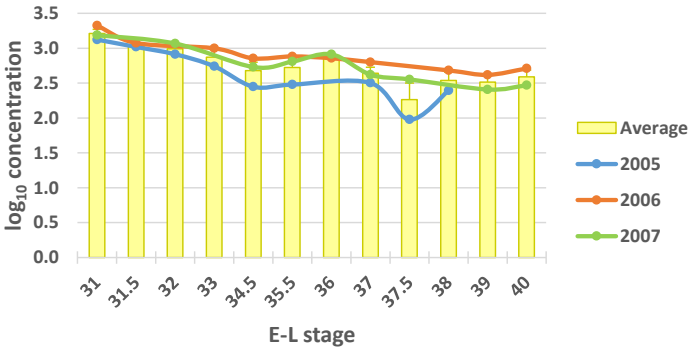
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 4-terpineol



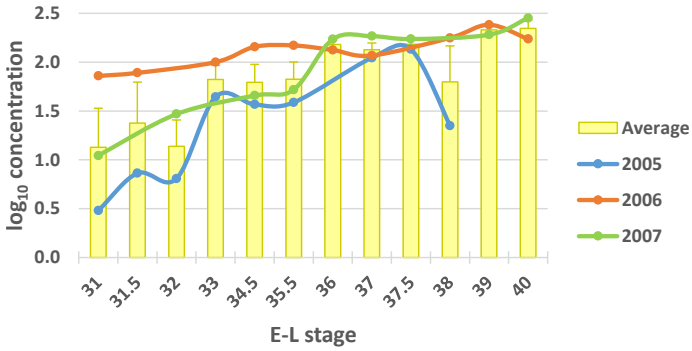
2005-2006	2005-2007	2006-2007
NS	NA	NA

Free HO-diendiol I+HO-trienol



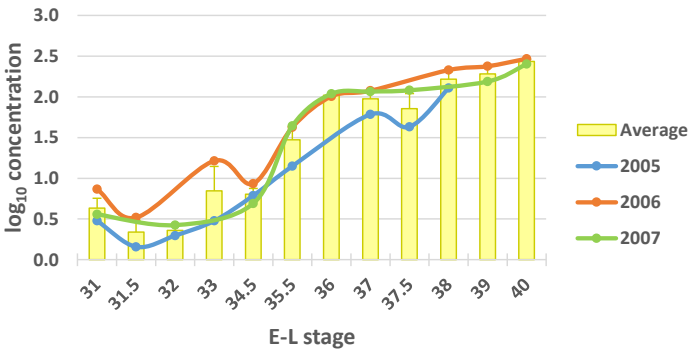
2005-2006	2005-2007	2006-2007
0.94**	0.94**	0.94**

Bound HO-diendiol I+HO-trienol



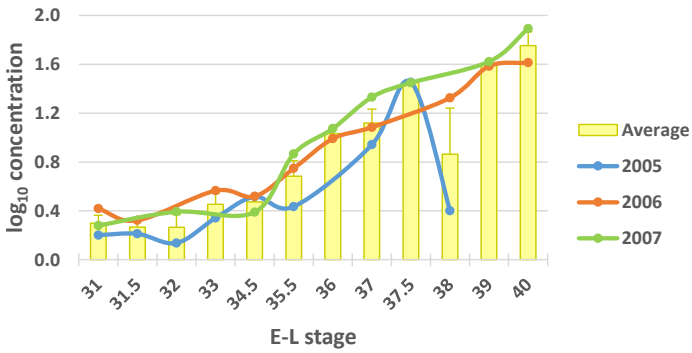
2005-2006	2005-2007	2006-2007
NS	0.96**	NS

Free HO-diendiol II



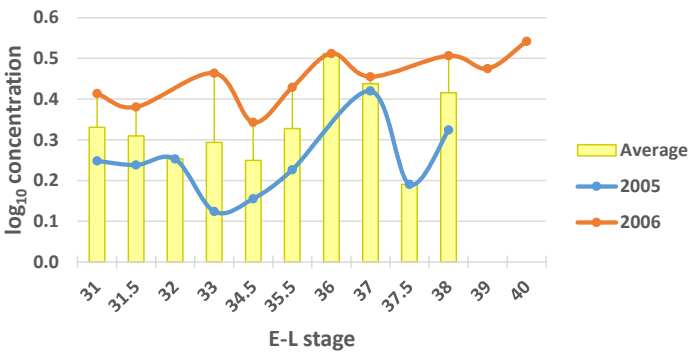
2005-2006	2005-2007	2006-2007
0.97**	0.97**	0.99**

Bound HO-diendiol II



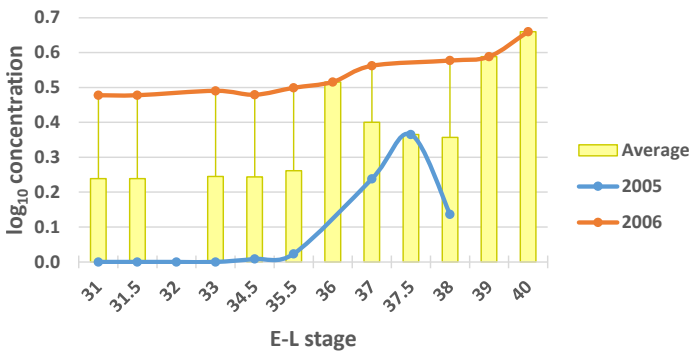
2005-2006	2005-2007	2006-2007
NS	0.90*	0.98**

Free rose oxide



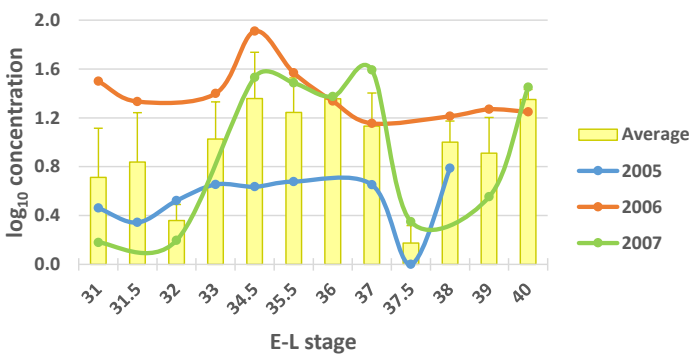
2005-2006	2005-2007	2006-2007
NS	NA	NA

Bound rose oxide



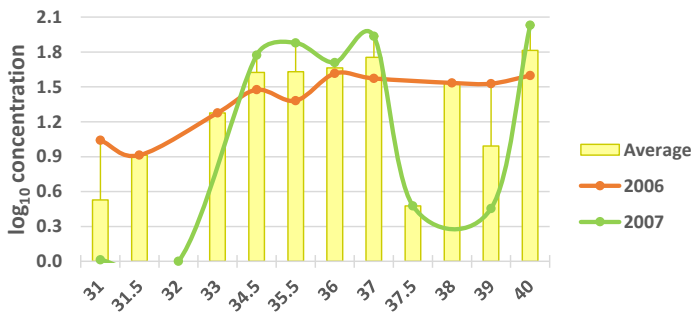
2005-2006	2005-2007	2006-2007
*0.89***	NA	NA

Bound 3-HO-β-damascone



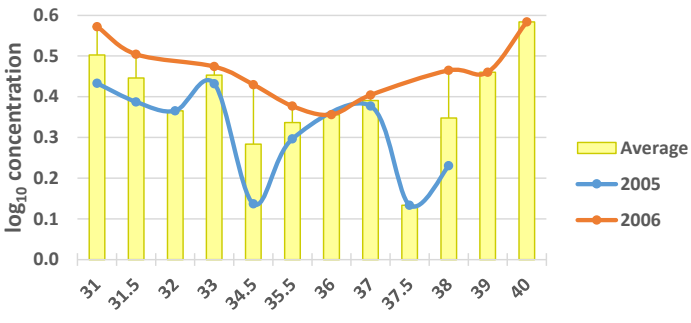
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 3-oxo-α-ionol



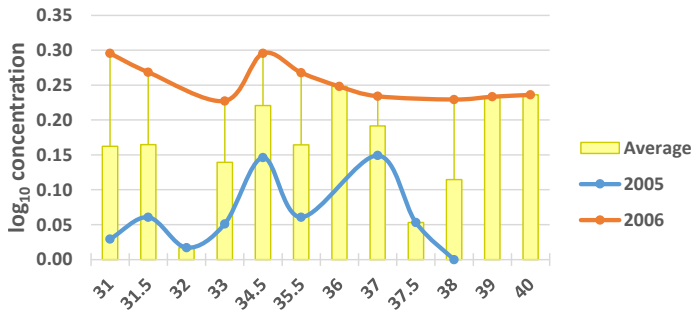
2005-2006	2005-2007	2006-2007
NA	NA	NS

Free 6-methyl-5-hepten-2-one



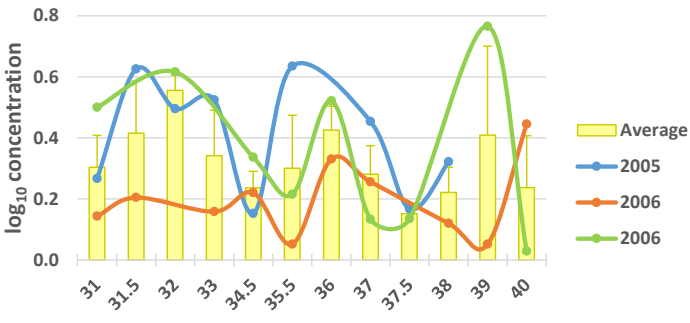
2005-2006	2005-2007	2006-2007
NS	NA	NA

Bound 6-methyl-5-hepten-2-one



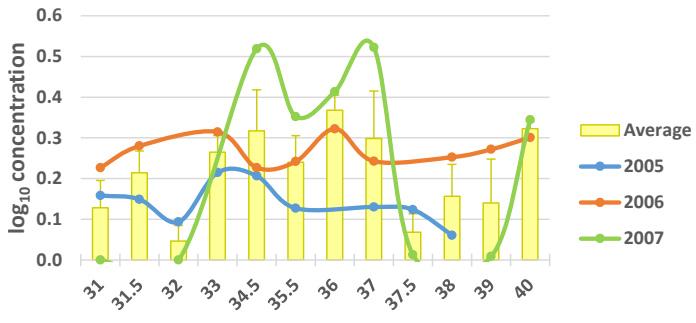
2005-2006	2005-2007	2006-2007
NS	NA	NA

Free phenol



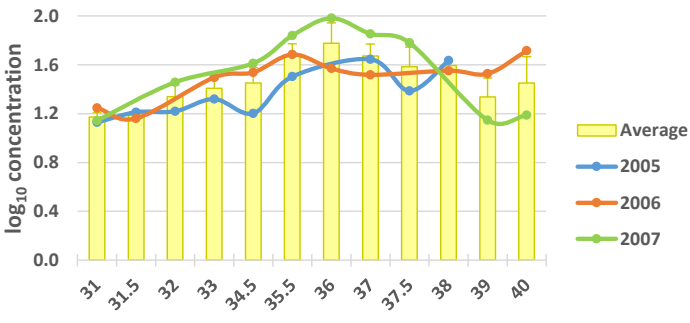
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound phenol



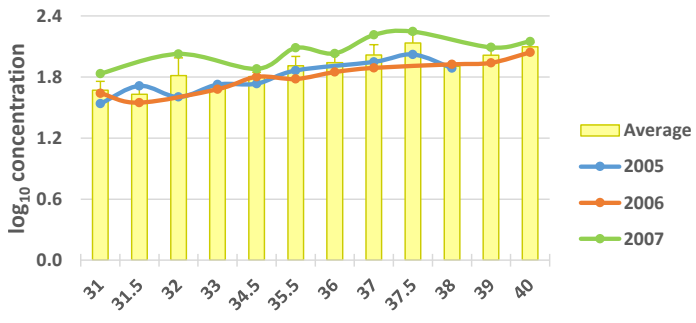
2005-2006	2005-2007	2006-2007
NS	NS	NS

Free benzyl alcohol



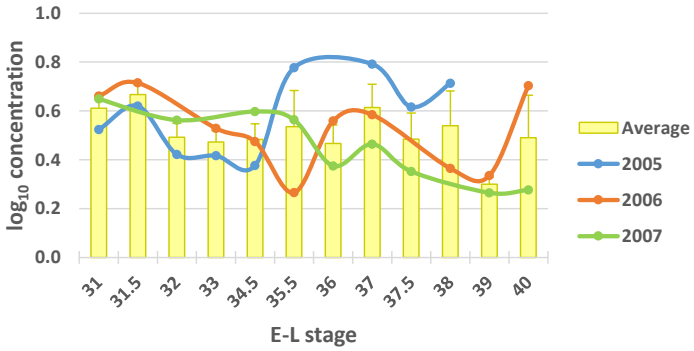
2005-2006	2005-2007	2006-2007
NS	0.85*	NS

Bound benzyl alcohol



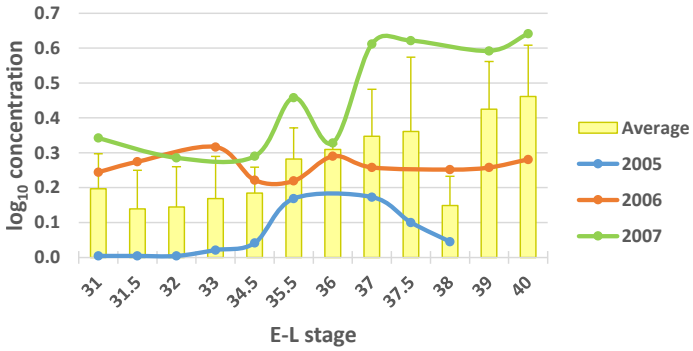
2005-2006	2005-2007	2006-2007
0.77*	0.87*	0.76*

Free benzaldehyde



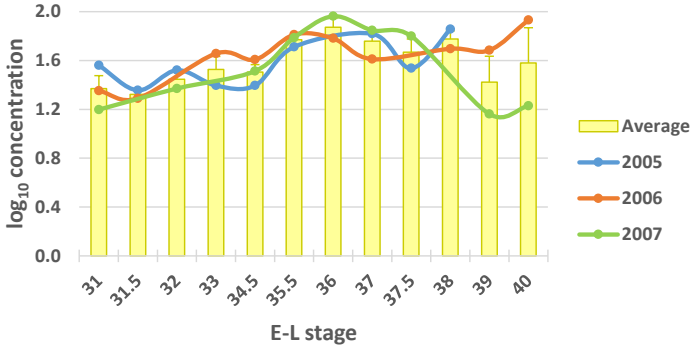
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound benzaldehyde



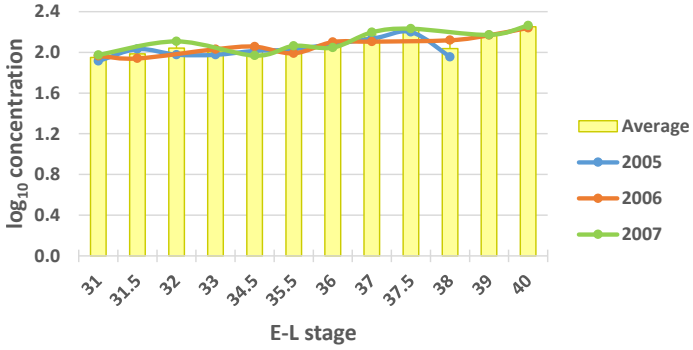
2005-2006	2005-2007	2006-2007
NS	NS	NS

Free 2-phenylethanol



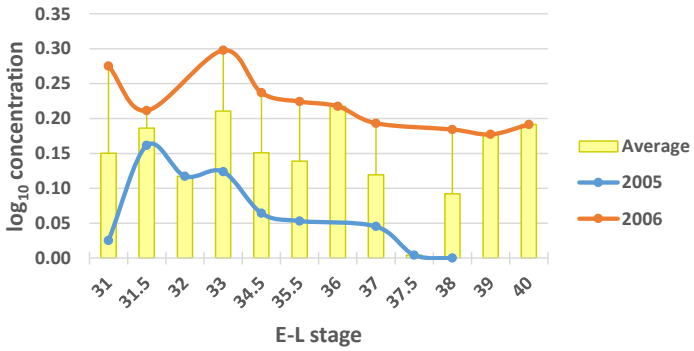
2005-2006	2005-2007	2006-2007
NS	NS	NS

Bound 2-phenylethanol



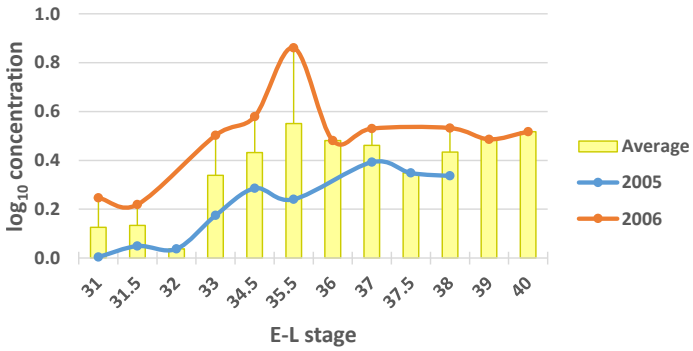
2005-2006	2005-2007	2006-2007
NS	0.87*	0.84*

Free methyl salicylate



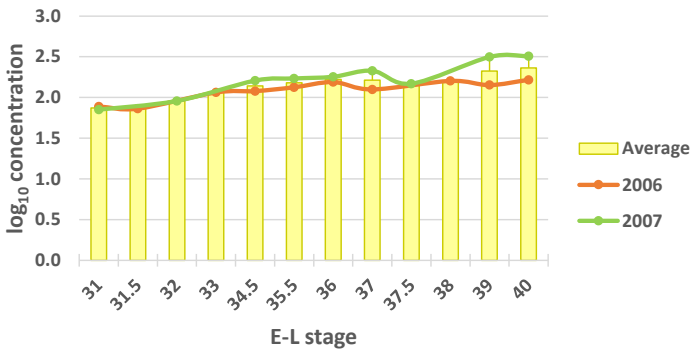
2005-2006	2005-2007	2006-2007
NS	NA	NA

Bound methyl salicylate



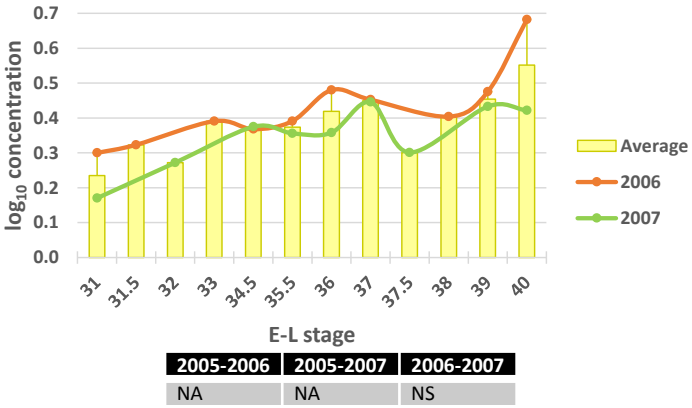
2005-2006	2005-2007	2006-2007
NS	NA	NA

Free hexanol



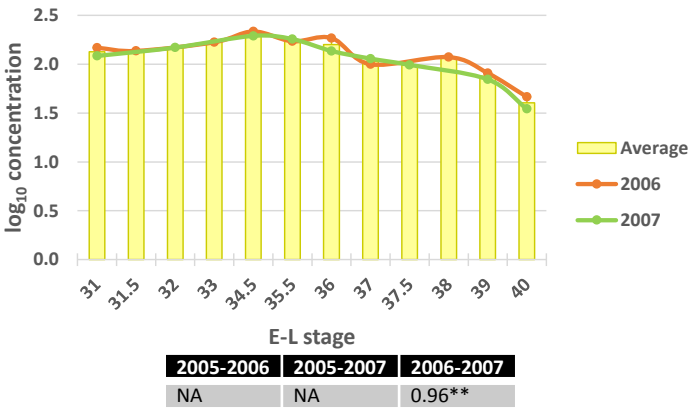
2005-2006	2005-2007	2006-2007
NA	NA	0.88**

Free *trans*-3-hexen-1-ol



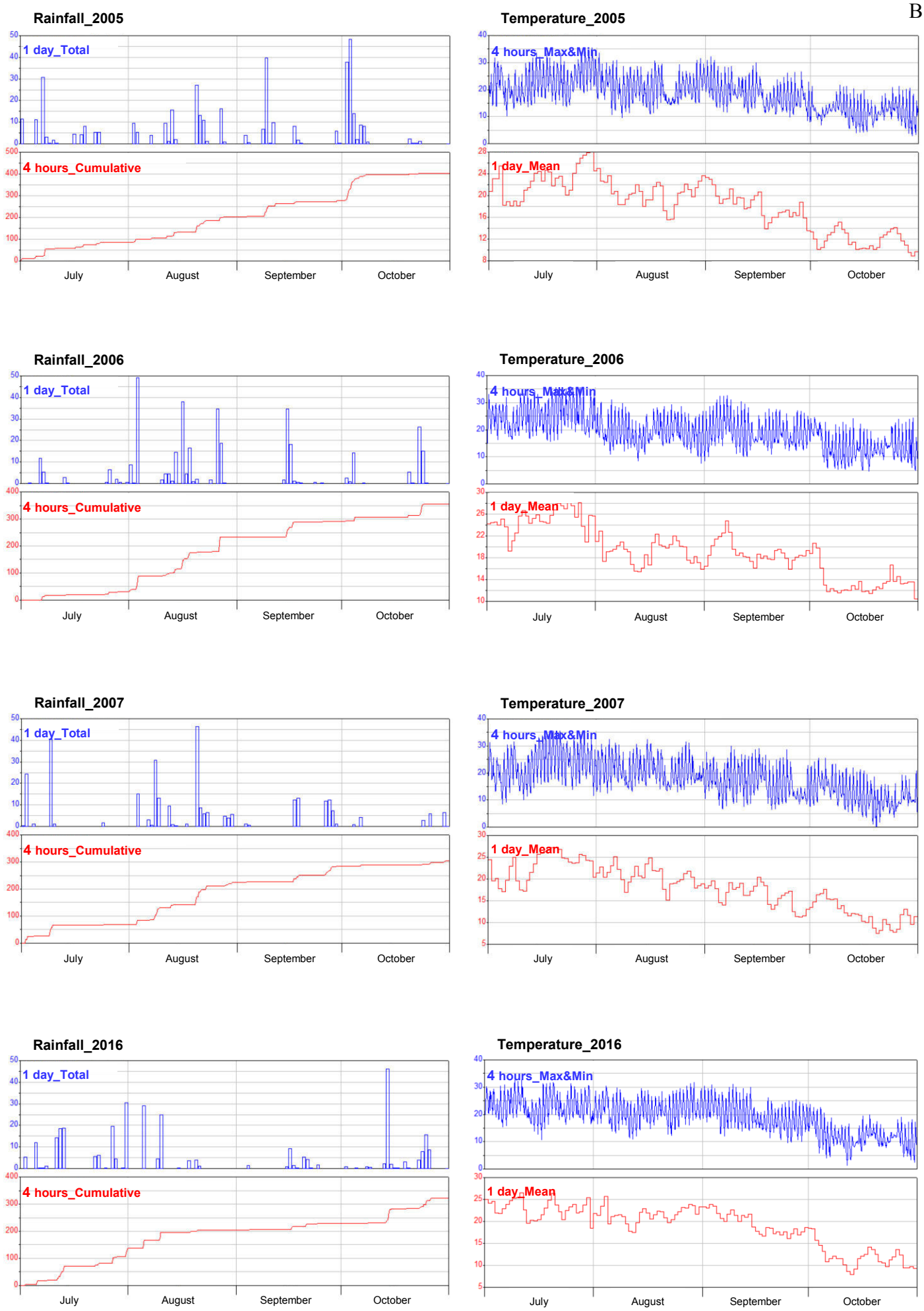
2005-2006	2005-2007	2006-2007
NA	NA	NS

Free *cis*-3-hexen-1-ol



2005-2006	2005-2007	2006-2007
NA	NA	0.96**

B



Supplementary Figure S1: A) Aromatic compound content in the Moscato Bianco ripening berry over 3 seasons. The colored lines correspond to the log10-transformed concentration of free and glycosidically bound metabolites in 2005, 2006 and 2007. The yellow columns with bars represent the average ± standard error of the 3 years considered as biological replicates. At the bottom of each figure, Pearson correlations between seasonal quantifications are marked with one or two stars when significant at the 0.05 and 0.01 level, respectively. Abbreviation: E-L stage = growth stage according to the modified Eichhorn-Lorenz scheme (Coombe, 1995). The decimal E-L stages were arbitrarily assigned by the authors of the present study to facilitate the alignment of the sampling dates from the three different years. B) Climatic conditions (rainfall and temperature) from July to October in the 4 seasons under investigation. Historical data were retrieved from Meteotrentino archive (http://www.meteotrentino.it/).