SUPPLEMENTARY DATA

Table S1. Total volatile compounds identified on Monastrell red wines.

	CW 12	WWS 12	CW 14
Alcohol			
1-Propanol	13.83b	13.84b	0a
2-Methyl propanol	472.9ab	393.8a	518.1ab
Butanol	15.3a	15.47a	25.99b
3-Methylbutanol	6820.45ab	5336.41a	7839.26b
Pentanol	11.44a	12.73a	15.12b
4 Methylpentanol	14.1ab	14.72b	14.08ab
2-Heptanol	6.9ab	5.27a	10.36b
3-Methylpentanol	22.98ab	19.77a	25.11b
Hexanol	533.99b	474.14ab	450.31a
3-Hexenol	16.58a	20.12ab	21.62ab
3-Ethoxy propanol	2.77ab	1.577a	3.80bc
5.3-Methylheptanol	2.17b	0a	0a
2-Hexenol	0.73a	0a	0a
1.3- Octenol	11.03a	9.71a	17.03c
6.2-Methylheptanol	0.95a	0a	0a
2-Ethylhexanol	100.24a	96.91a	83.12a
2-Nonanol	5.2a	5.38a	5.0a
2.3-Butanediol	113.34b	92.59ab	236.70c
2.3-Butanediol	7.66ab	5.72ab	12.64b
Octanol	40.41a	40.28a	54.33b

2 nonanol	4.88a	8.15a	14.66b
2.3 butanediol	30.21ab	24.43a	45.9b
Nonanol	19.91ab	21.70a	22.17bc
Methyl thiopropanol	29.28a	27.48a	33.17a
Benzyl alcohol	26.31ab	22.87a	44.08b
2 phenyl ethanol	2882.81a	2736.16a	3718.73b
Total Alcohol	**11306.42**	**9399.38**	**13211.45**
Esters			
Ethyl acetate	1186.92a	1405.4a	1883.19b
Ethyl 2-methyl propanoate	581.41a	545.08a	809.08b
2-Methylpropyl acetate	17.74a	16.48a	20.43a
Ethyl butanoate	44.45a	40.85a	44.12a
Ethyl 2-methylbutanoate	42.67ab	31.94a	42.71ab
Ethyl 3-Methyl Butanoate	68.05ab	54.69a	72.11ab
3-Methylbutanol acetate	351.74a	385.07a	519.34b
2-Methylbutanol acetate	24.5ab	25.08ab	18.77a
Ethyl pentanoate	6.91a	7.38ab	13.07b
Methyl hexenoate	1.81a	2.3ab	2.58b
3-Methylbutanol propanoate	4.64a	2.94a	12.33b
Ethyl hexanoate	1462.47ab	1202.65a	1427.04ab
Hexyl acetate	31.85a	63.88b	31.41a
3methylbutyl 3methylbutanoate	4.64a	3.21a	5.24a
Ester	3.6b	3.4b	7.7c
Ethyl 3-hexenoate	5.81b	4.62a	4.99ab
Ethyl heptanoate	30.37ab	22.35a	34.30b

Ethyl 2hydroxypropanoate	76.5c	43.96a	86.72c
2 methyl propyl hexanoate	2.99ab	2.83a	3.50b
Ethyl 6 heptenoate	20.70a	26.62b	21.24a
Methyl octanoate	13.4b	7.5a	12.8b
Ethyl octanoate	2558.79a	3944.38b	3386.19ab
Isopentyl hexanoate	41.15a	41.3a	51.6b
Ethyl 7-Octenoate	6.09a	9.83b	8.47b
Ethyl nonanoate	37.33a	49.6b	46.31b
Pentyl methoxyacetate	14.25b	11.38a	17.51d
Methyl decanoate	10.11a	12.82ab	14.26ab
Ethyl decanoate	400.62a	808.59b	641.63ab
3 Methyl butyl octanoate	45.0b	18.2a	18.08a
Ethyl benzoate	19.29a	21.02ab	24.73b
Ethyl succinate	1543.76a	1127.86a	1243.89ab
Ethyl 9 -Decenoate	59.93a	114.59b	52.81a
Ethyl undecanoate	5.74a	4.77a	5.54a
3 Methyl butyl octanoate	2.05a	2.27a	3.35b
Methyl salicylate	20.28a	19.47a	22.86ab
Ethyl benzene acetate	26.32a	25.12a	27.702a
Succinic acid ethyl butyl ester	52.3c	38.4b	27.29a
2 Phenylethyl acetate	233.27a	137.14a	146.98a
Dodecanoate ethyl	20.6b	35.06b	29.82bc
Pentyl decanoate	10.0a	3.94a	5.5a
Ethyl 3-hydroxydodecanoate	2.62b	2.49b	1.78ab
Ethyl tetradecanoate	13.5b	4.48a	4.39a

Succinic acid ethyl hexyl ester	4.14b	1.88ab	0a
Ethyl cinnamate	3.28b	2.90a	3.24b
Ethyl hexadecanoate	8.93b	8.95b	4.87ab
Ethyl hydroxysuccinate	136.7a	133.63a	124.41a
Total Esters	**9248.67**	**10482.14**	**10977.67**
Aldehydes and Ketones			
2-Heptanone	2.5b	2.09b	1.42ab
2-Methyl tetrahydro furan	0.91a	0a	0a
2-Octanone	99.11ab	96.39ab	92.0a
Nonanal	26.12c	10.98ab	21.73bc
Butyrolactone	4.32a	0a	19.66b
Methoxy 2.5 methyl pyrazine	6.77a	8.55c	8.36bc
Hexadechannel	4.36ab	3.27a	4.37ab
2-Propyl tetrahydro furan	10.58b	10.33b	6.59ab
g nonalactone	3.99b	4.60b	0a
Total Aldehydes and Ketones	**158.66**	**135.21**	**154.15**
Terpenes			
Alpha-terpinene	15.13a	18.49a	25.60b
Terpinolene	24.28ab	15.23a	37.11b
Geranyl ethyl ester	11.16a	14ab	16.08b
Linanol	38.89a	30.86a	44.02a
Citronellol	12.35a	11.89a	17.25a
Farnesol	0.51a	0.91a	0.74a
Nerolidol	30.01ab	39.63b	27.07a
Total terpenes	**132.33**	**131.06**	**167.92**

Acids			
2-Methyl propanoic acid	18.93a	17.6a	24.62b
Hexanoic	168.49c	117.5a	149.3b
Octanoic	314.62b	320.20b	211.24a
Nonanoic	17.96ab	22.99b	14.4a
Decanoic	52.6ab	63.32b	48.6a
Dodecanoic	53.35c	34.91b	21.33a
Total acid	**625.85**	**576.53**	**469.49**
Total volatile compounds	**21471.93**	**20635.33**	**24980.68**

The concentration of volatile compounds is expressed in µg of 2-octanol equivalents/L. Different letters within the same row indicate significant differences ($p < 0.05$).