



Figure S1. Different ripening stages of *R. ulmifolius* Schott fruits: large green fruit (LG); turning fruit (T); 50% black fruit (50%R); and ripe black fruit (R). Fruits obtained during the summer of 2020.

Table S1. Volatile compounds content (expressed in relative area) from three different *R. ulmifolius* Schott fruits stages.

Compounds	T sample	50% R sample	R sample			
Aldehydes						
Pentanal	0.111	± 0.018	0.452	± 0.117	0.141	± 0.033
Hexanal	7.792	± 0.715	1.971	± 1.065	2.536	± 1.858
<i>E</i> -2-pentenal	0.350	± 0.056	0.214	± 0.062	0.140	± 0.040
<i>E</i> -2-hexenal	7.285	± 0.915	5.213	± 2.525	8.808	± 3.218
Nonanal	0.090	± 0.012	0.242	± 0.146	3.452	± 2.889
Z-2-heptenal	0.089	± 0.074	0.112	± 0.125	14.551	± 8.481
Alcohols						
2-ethyl-1-pentanol	0.016	± 0.001	0.029	± 0.014	0.089	± 0.066
1-penten-3-ol	0.879	± 0.098	0.971	± 0.773	0.462	± 0.002
Isoamyl alcohol	0.135	± 0.034	0.104	± 0.081	0.600	± 0.293
2-heptanol	22.052	± 2.059	17.861	± 2.871	34.044	± 2.090
Z-2-penten-ol	0.913	± 0.120	0.064	± 0.021	0.408	± 0.221
1-hexanol	2.375	± 0.525	1.160	± 0.311	39.152	± 21.403
Z-3-hexen-1-ol	0.917	± 0.156	0.592	± 0.135	0.971	± 0.231
<i>E</i> -2-hexen-1-ol	0.392	± 0.094	0.328	± 0.064	4.420	± 1.250
1-heptanol	0.360	± 0.064	0.212	± 0.080	2.075	± 1.182
Sulcatol	1.985	± 0.440	0.318	± 0.081	1.068	± 0.270
(<i>s</i>)-3-ethyl-4-methylpentanol	0.391	± 0.150	0.006	± 0.003	0.009	± 0.004
Z-5-octen-1-ol	0.096	± 0.016	0.035	± 0.014	0.239	± 0.127
Benzyl alcohol	0.490	± 0.153	0.091	± 0.011	0.310	± 0.098
Phenylethyl alcohol	0.308	± 0.098	0.269	± 0.225	0.871	± 0.430
1-octen-3-ol	0.288	± 0.235	0.326	± 0.341	0.212	± 0.068
Carbonyls						
1-penten-3-one	0.596	± 0.121	0.120	± 0.037	0.064	± 0.024
2-heptanone	3.087	± 0.963	0.491	± 0.152	17.076	± 8.933
Sulcatone	0.061	± 0.013	0.087	± 0.049	18.104	± 9.978
2-methyl butanoic acid	1.143	± 0.267	0.233	± 0.042	3.574	± 1.036
Esters						
Methoxyphenyl oxime	0.526	± 0.225	1.337	± 1.309	2.474	± 1.664
Methyl salicylate	2.030	± 0.338	0.825	± 0.248	0.499	± 0.039
Ethyl octanoate	0.138	± 0.071	0.310	± 0.252	0.814	± 0.762
Other compound						
2-ethylfuran	0.768	± 0.219	0.234	± 0.044	0.181	± 0.030
Terpenes						
<i>D</i> -limonene	0.026	± 0.001	0.019	± 0.011	0.045	± 0.023
<i>b</i> -Linalool	0.486	± 0.054	0.092	± 0.023	0.733	± 0.176
<i>L</i> - <i>a</i> -terpineol	0.080	± 0.014	0.021	± 0.005	0.091	± 0.030
<i>b</i> -Myricene	0.042	± 0.002	0.016	± 0.005	0.081	± 0.033

Results (average ± SD) are expressed as relative area multiplied by 100.