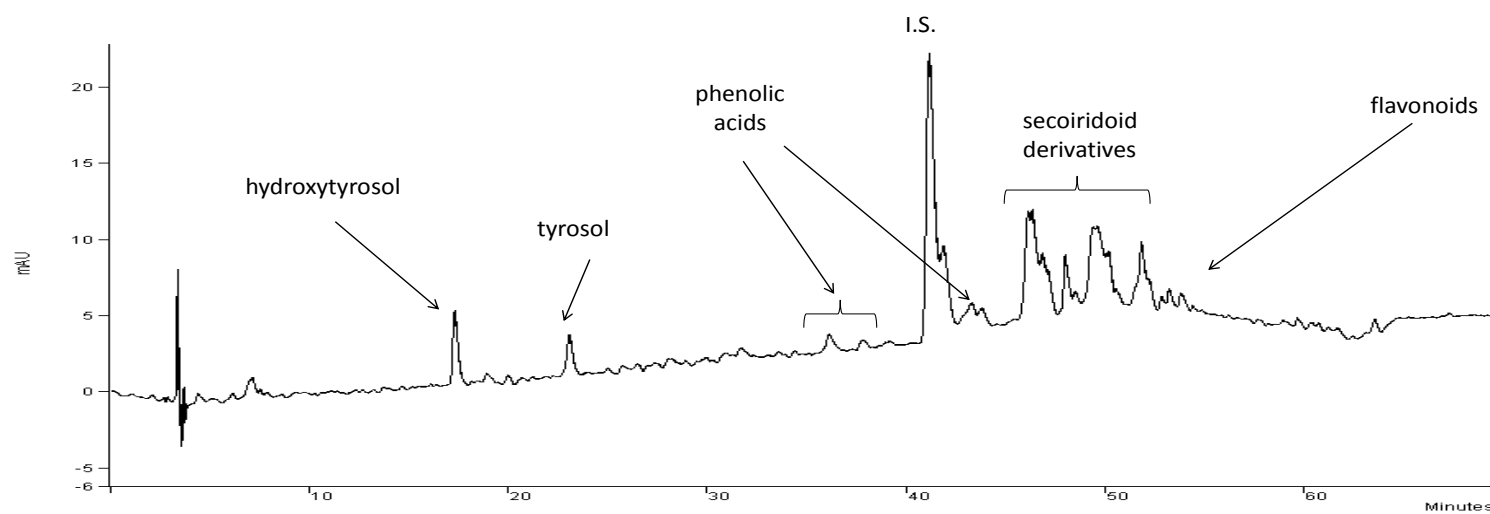
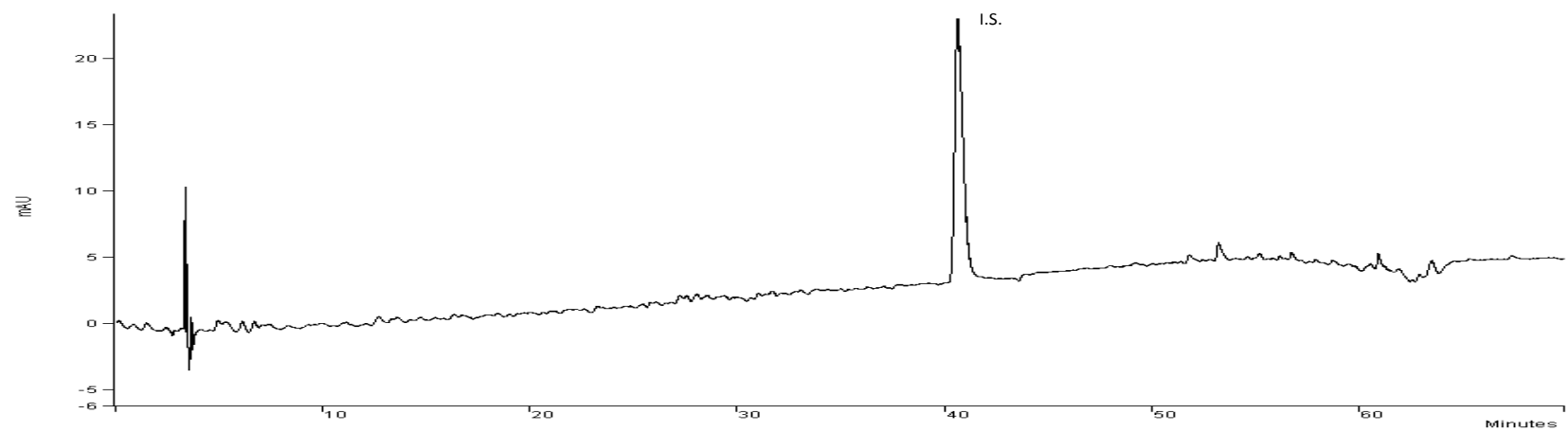


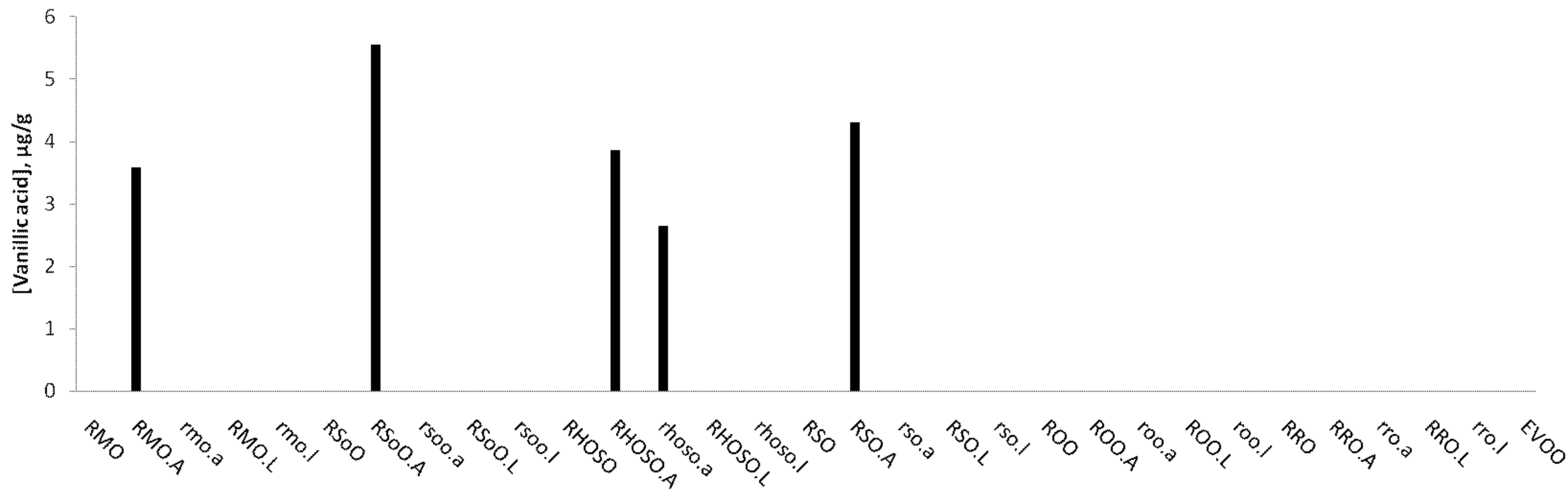
Supplementary Fig.1(A)



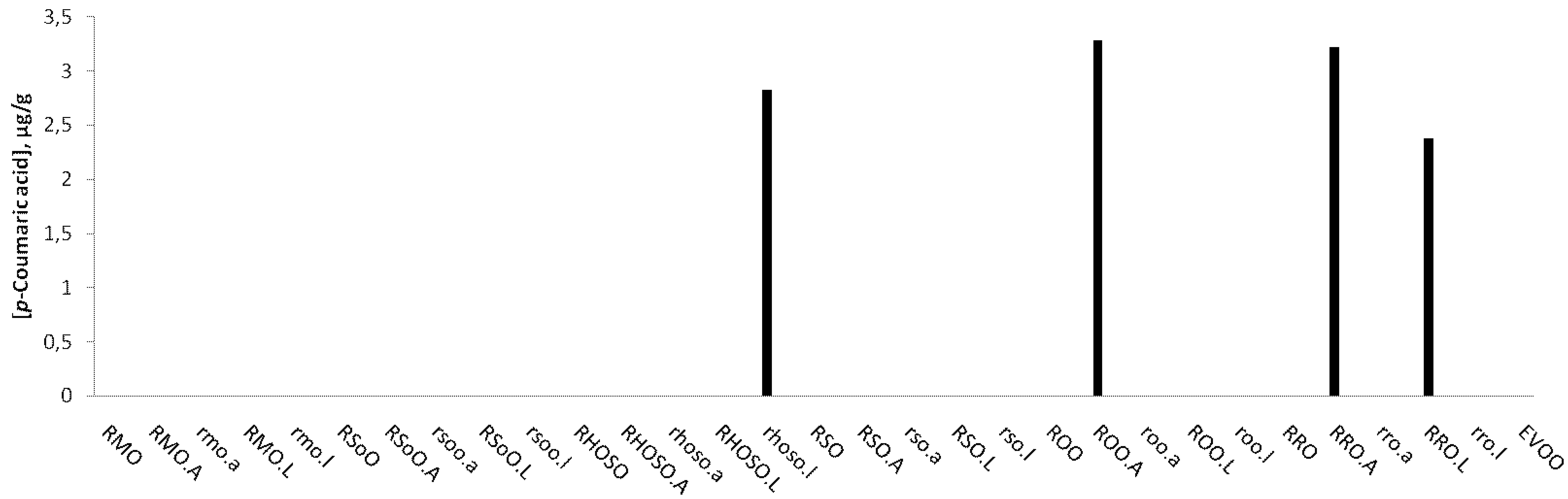
Supplementary Fig.1(B)



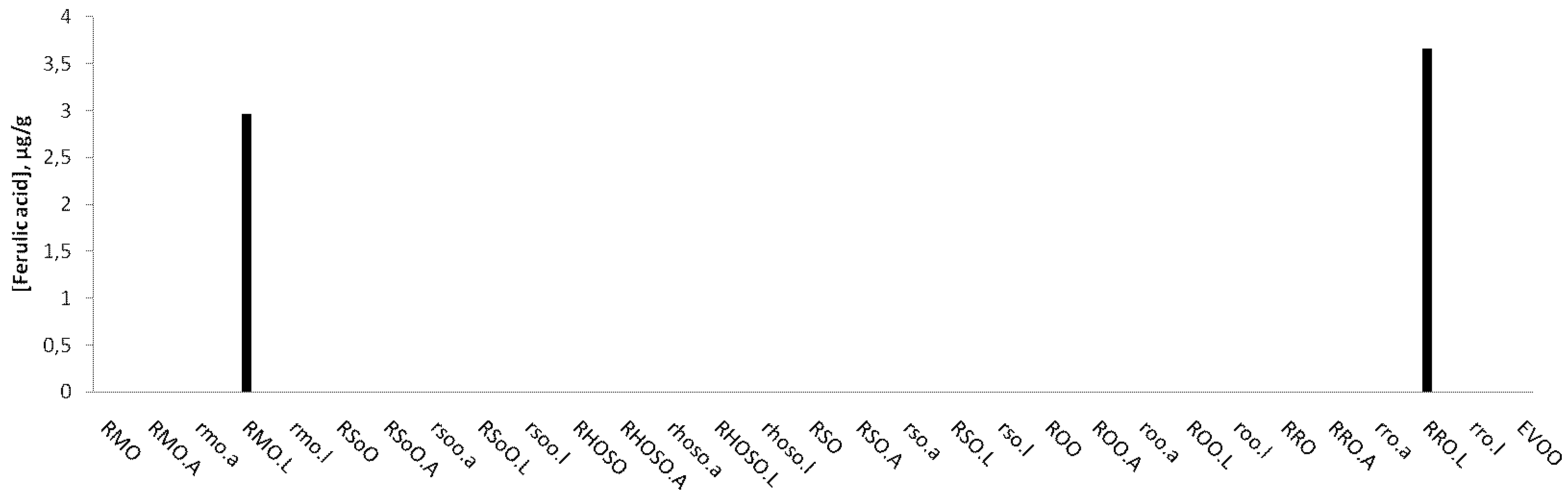
Supplementary Fig.2 (A)



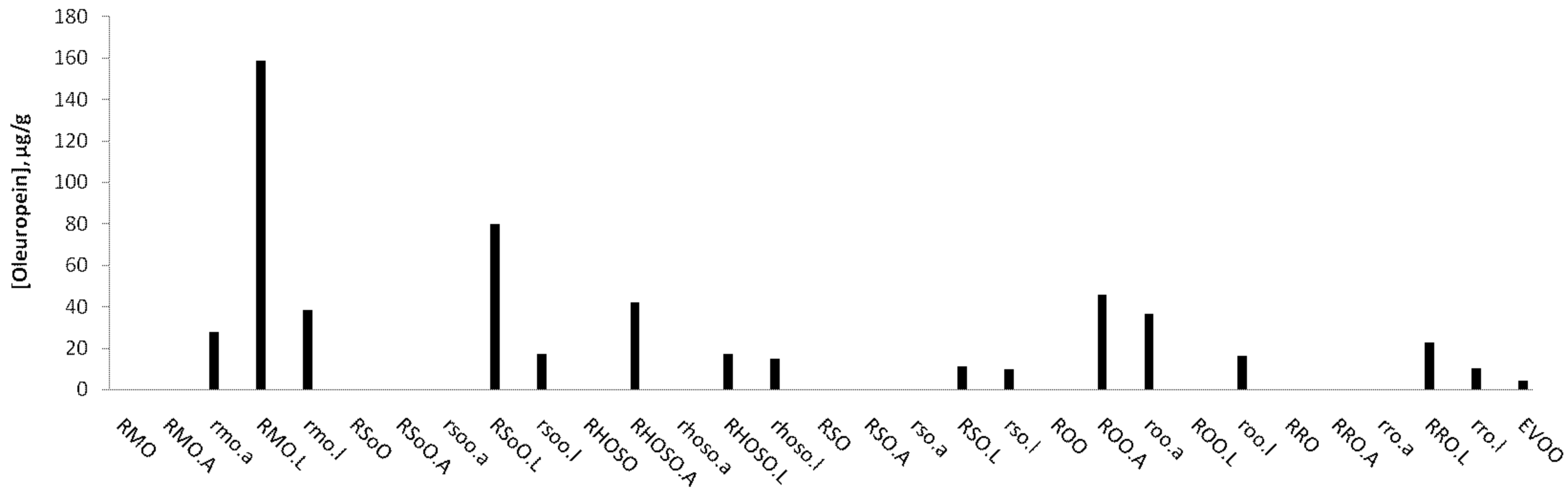
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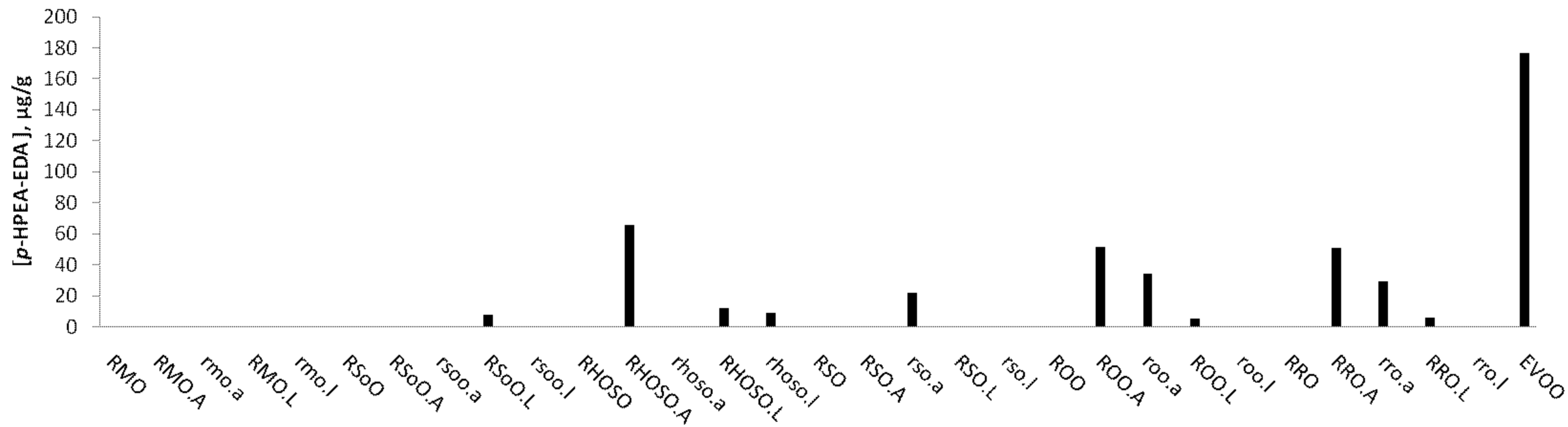
Supplementary Fig.2 (C)



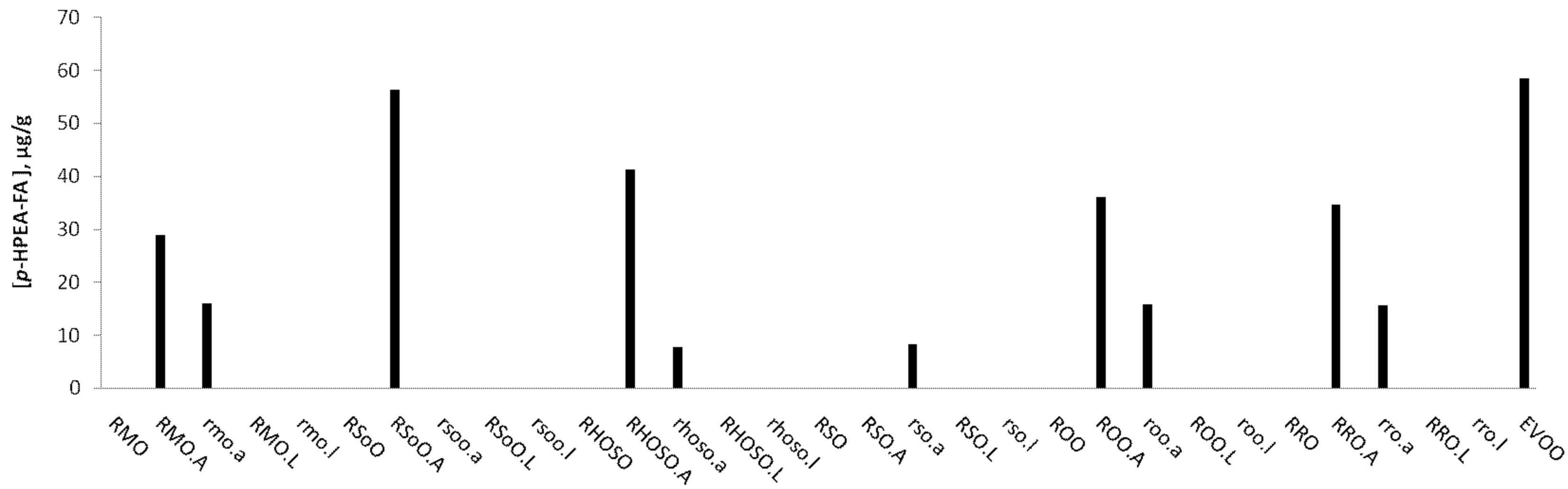
Supplementary Fig.2 (D)



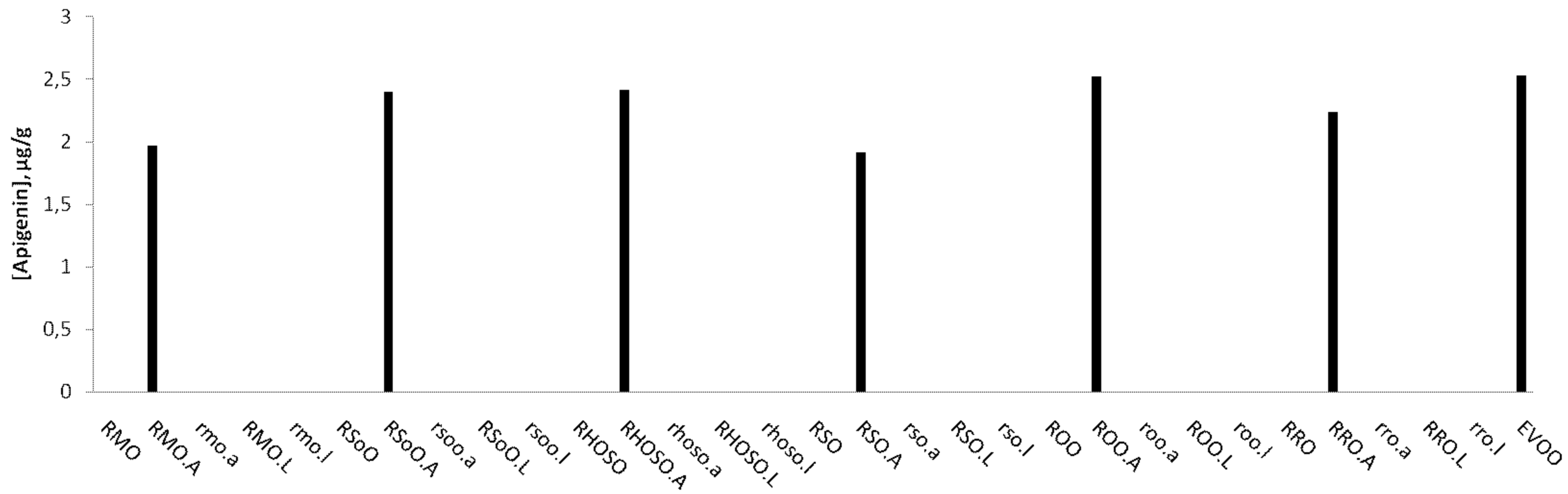
Supplementary Fig.2 (E)



Supplementary Fig.2 (F)



Supplementary Fig.2 (G)



Supplementary Table 1. Accurate mass measurements for the identification of the main olive phenols in EVOO and enriched oils obtained by LC–TOF/MS analyses.

Compound	Retention time (min)	Ion	Actual mass (m/z)	Formula	Experimental mass (m/z)	Error (ppm)
Hydroxytyrosol	12.8	[M-H] ⁻	153.0562	C ₈ H ₁₀ O ₃	153.0563	0.6533
Tyrosol	26.8	[M-H] ⁻	137.0614	C ₈ H ₁₀ O ₂	137.0617	2.1887
3,4-DHPEA-EDA	26.5	[M+CHO ₂]	365.1241	C ₁₇ H ₂₀ O ₆	365.1236	-1.3693
Oleuropein	29.8	[M-H] ⁻	539.1795	C ₂₅ H ₃₂ O ₁₃	539.1801	1.1128
p-HPEA-EDA	37.0	[M-H] ⁻	303.1256	C ₁₇ H ₂₀ O ₅	303.1253	-0.9896
p-HPEA-FA	33.0	[M-H] ⁻	377.1236	C ₁₉ H ₂₂ O ₈	377.1245	2.3864
Luteolin	36.5	[M-H] ⁻	285.0398	C ₁₅ H ₁₀ O ₆	285.0388	-3.5082

Supplementary Table 2. Concentration of the main olive phenols in the target oils prior to and after enrichment.

Enriched Oil	Hydroxy-tyrosol	Tyrosol	Vanillic acid	<i>p</i> -Coumaric acid	Ferulic acid	3,4-DHPEA-EDA	Oleuropein	<i>p</i> -HPEA-EDA	<i>p</i> -HPEA-FA	Luteolin	Apigenin
RMO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RMO.A	28.21	5.05	3.58	0.00	0.00	411.04	0.00	0.00	29.01	8.32	1.97
rmo.a	11.25	1.08	0.00	0.00	0.00	205.89	27.68	0.00	15.99	4.60	0.00
RMO.L	5.02	0.00	0.00	0.00	2.97	0.00	158.92	0.00	0.00	3.49	0.00
rmo.l	0.00	0.00	0.00	0.00	0.00	0.00	38.56	0.00	0.00	2.26	0.00
RSoO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RSoO.A	39.86	7.81	5.55	0.00	0.00	585.07	0.00	0.00	56.41	12.02	2.40
rsoo.a	10.86	0.00	0.00	0.00	0.00	91.73	0.00	0.00	0.00	4.13	0.00
RSoO.L	7.03	0.00	0.00	0.00	0.00	0.00	80.08	7.57	0.00	5.14	0.00
rsoo.l	2.30	0.00	0.00	0.00	0.00	0.00	17.08	0.00	0.00	4.99	0.00
RHOSO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHOSO.A	24.89	4.62	3.86	0.00	0.00	379.99	42.35	65.61	41.21	9.14	2.41
rhoso.a	10.95	1.21	2.66	0.00	0.00	174.38	0.00	0.00	7.75	5.65	0.00
RHOSO.L	2.41	0.00	0.00	0.00	0.00	0.00	17.47	11.87	0.00	3.03	0.00
rhoso.l	2.48	0.00	0.00	2.83	0.00	0.00	14.95	8.96	0.00	4.76	0.00
RSO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RSO.A	25.33	5.23	4.30	0.00	0.00	350.41	0.00	0.00	0.00	7.84	1.92
rso.a	11.27	3.89	0.00	0.00	0.00	125.56	0.00	21.62	8.36	4.70	0.00
RSO.L	5.41	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.00	3.38	0.00
rso.l	0.00	0.00	0.00	0.00	0.00	0.00	9.74	0.00	0.00	3.31	0.00
ROO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ROO.A	22.54	6.49	0.00	3.28	0.00	330.77	45.98	51.31	36.15	7.89	2.52
roo.a	15.33	1.76	0.00	0.00	0.00	188.18	36.67	34.49	15.85	5.48	0.00
ROO.L	4.00	0.00	0.00	0.00	0.00	42.95	0.00	5.34	0.00	4.47	0.00
roo.l	0.00	0.00	0.00	0.00	0.00	0.00	16.55	0.00	0.00	3.34	0.00
RRO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RRO.A	14.67	3.34	0.00	3.22	0.00	298.31	0.00	50.74	34.64	8.40	2.23

rro.a	11.95	1.80	0.00	0.00	0.00	166.09	0.00	29.29	15.68	5.18	0.00
RRO.L	5.65	0.00	0.00	2.38	3.66	0.00	22.63	5.85	0.00	5.70	0.00
rro.l	0.00	0.00	0.00	0.00	0.00	0.00	10.46	0.00	0.00	2.15	0.00
EVOO	8.95	3.94	0.00	0.00	0.00	40.30	4.38	176.87	58.42	3.35	2.53