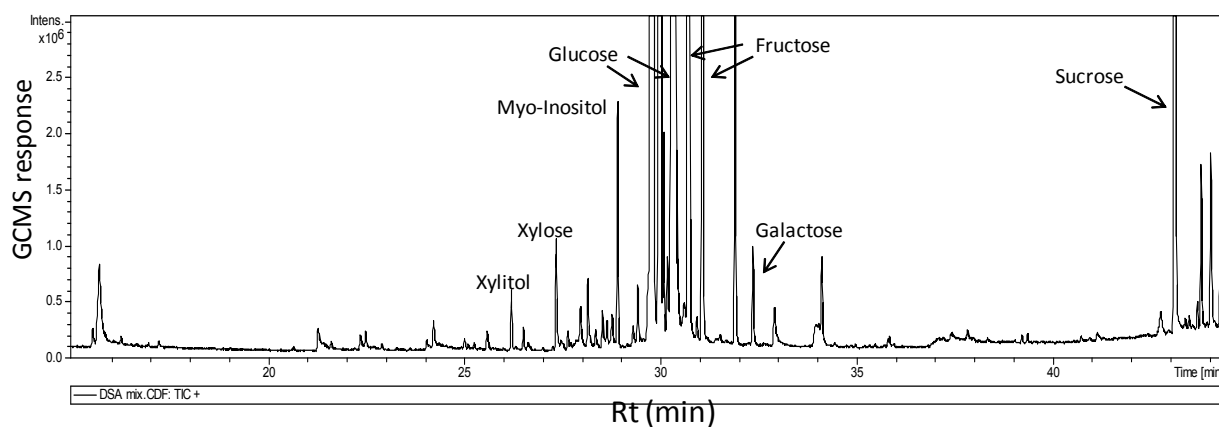


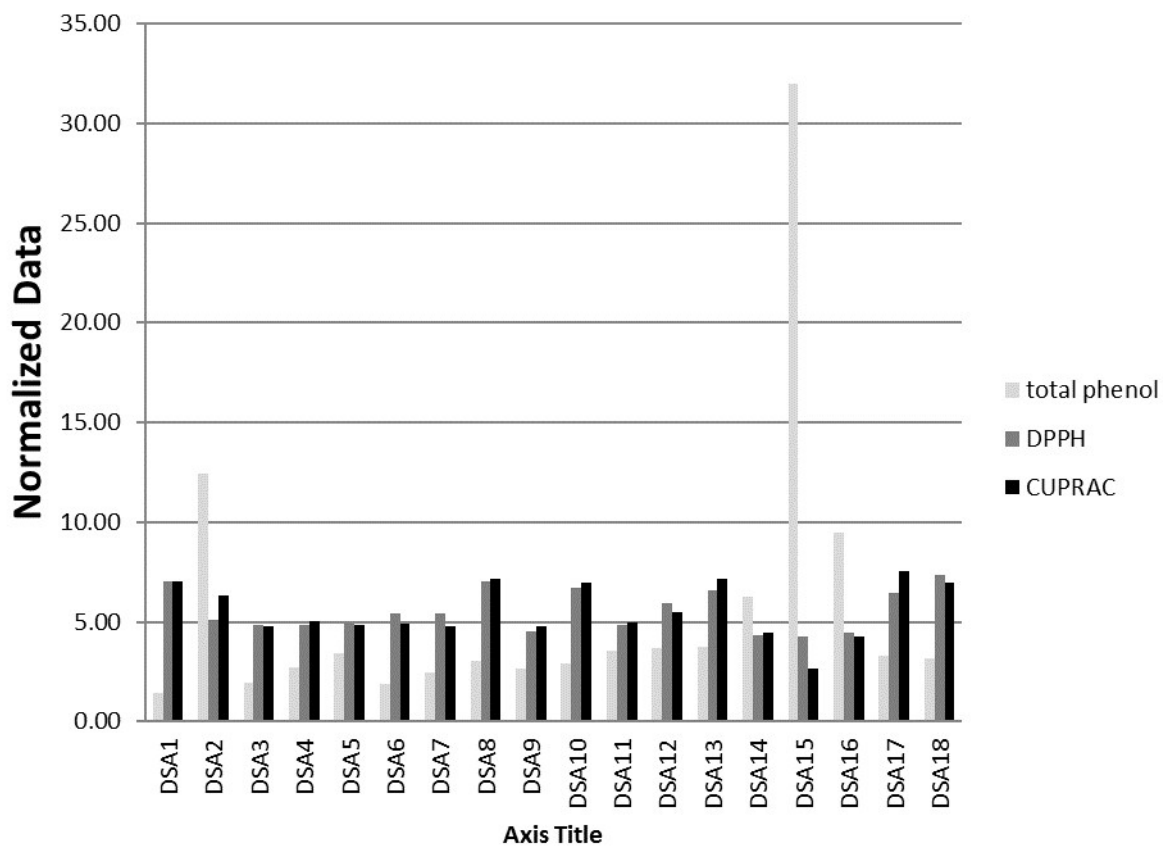
Supplementary Information

Peak	Rt (min)	Metabolite	m/z; mass used for quantification
1	15.562	Glycerol TMS	205
2	15.731	Phosphoric acid TMS	299
3	21.279	Malic acid TMS	147
4	22.358	Xylose TMS	307
5	24.216	Piperidine carboxylic acid TMS	244
6	25.003	Oxalic acid TMS	204
7	26.189	Xylitol TMS	217
8	27.336	Ribohexitol TMS	231
9	27.953	Xylofuranose TMS	217
10	28.143	Unknown	231
11	28.631	Fructose TMS	217
12	28.76	Citric acid TMS	273
13	28.895	Pinitol TMS	318
14	29.411	Tagatose TMS	307
15	29.75	Fructose methoxyamine TMS	307
16	29.96	Fructose methoxyamine TMS	307
17	30.063	Mannose methoxyamine TMS	319
18	30.164	Galactose methoxyamine TMS	319
19	30.327	Glucose methoxyamine TMS	205
20	30.72	Glucose methoxyamine TMS	205
21	31.052	Erythritol methoxyamine TMS	205
22	31.88	Talose methoxyamine TMS	204
23	32.32	Gluconic acid TMS	333
24	32.88	Galactose methoxyamine TMS	204
25	34.09	Myo-inositol methoxyamine TMS	305
26	35.8	Unknown	204
27	43.04	Sucrose TMS	36

Suppl. Table 1. Metabolites identified in *P. dactylifera* whole fruit water extract analysed via GC-MS as (TMS)-trimethylsilylated derivatives



Suppl. Fig.1 GC/MS chromatogram of *P. dactylifera* silylated primary metabolites identified using GC-MS post silylation.



Supp. Fig. 2 Normalized data of the antioxidant capacities (DPPH & CUPRAC assay) and total phenolics of 18 *Phoenix dactylifera* Saudi grown cultivars