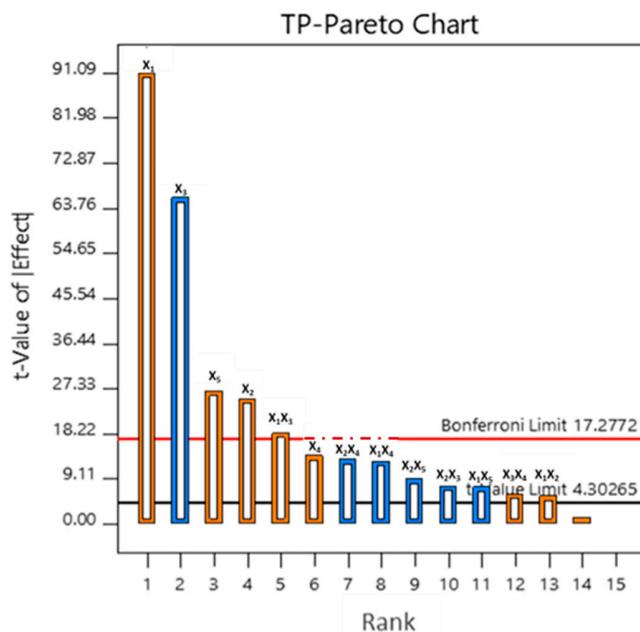
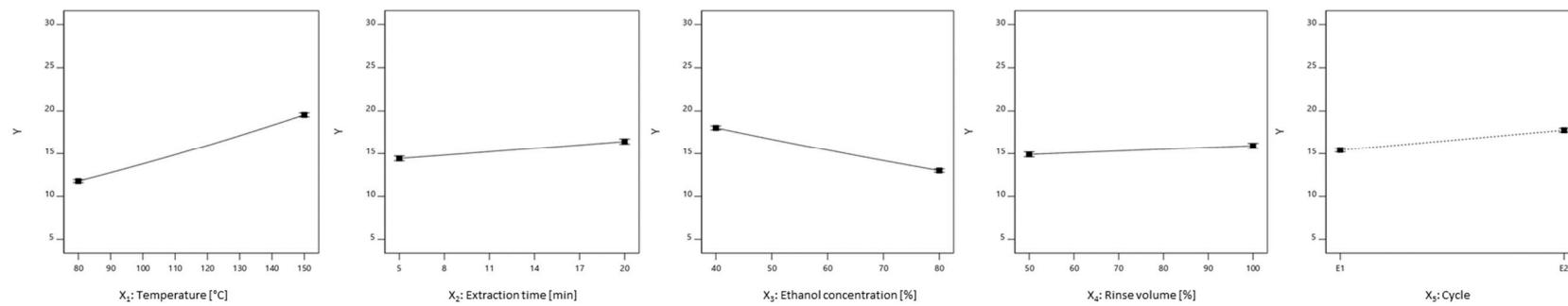


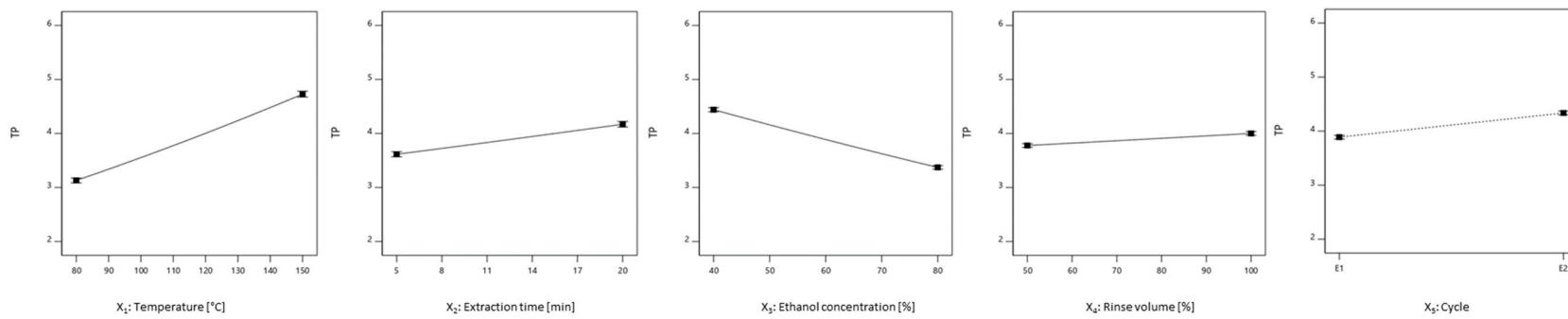
## Supplementary Material



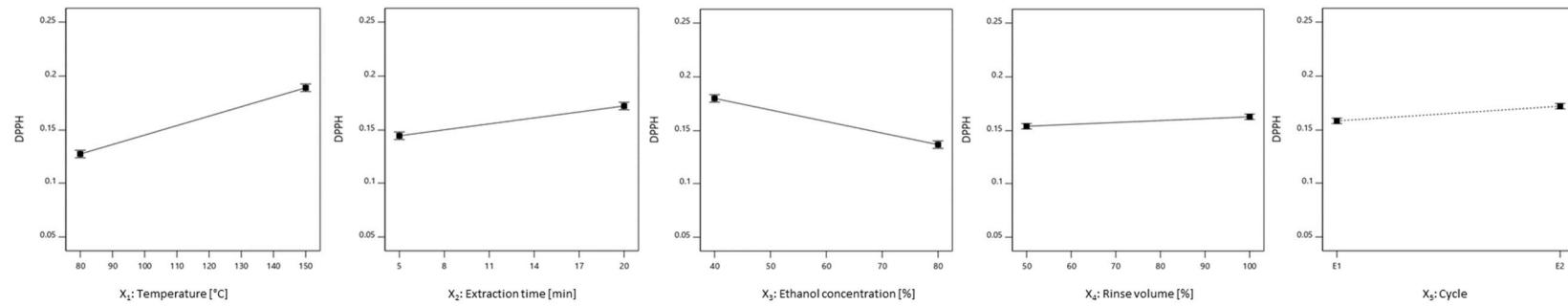
**Figure S1.** Pareto chart exhibiting effects of five PLE variables on TP



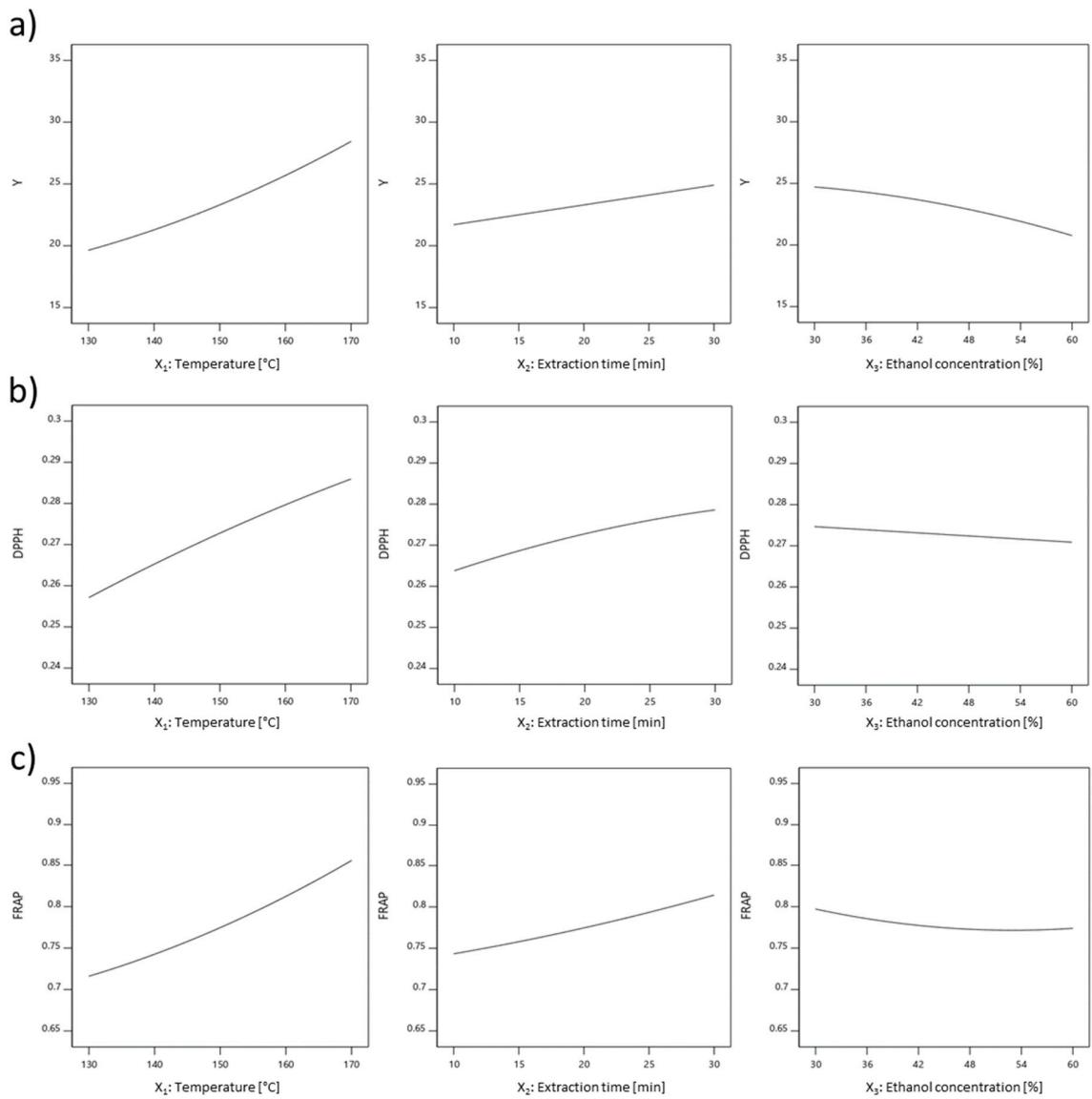
**Figure S2.** Influence of temperature, extraction time, ethanol concentration, rinse volume and number of cycles on Y



**Figure S3.** Influence of temperature, extraction time, ethanol concentration, rinse volume and number of cycles on TP



**Figure S4.** Influence of temperature, extraction time, ethanol concentration, rinse volume and number of cycles on DPPH



**Figure S5.** Effects of temperature, extraction time and ethanol concentration on **a)** Y, **b)** DPPH and **c)** FRAP

**Table S1.** Significance of linear, cross product and quadratic terms on Y, TP, DPPH, FRAP and ABTS.

Coefficients	Y	TP	DPPH	FRAP	ABTS
<i>p</i> -value					
<i>Linear</i>					
X <sub>1</sub> -Temperature	<0.0001 *	<0.0001 *	<0.0001 *	0.0001 *	<0.0001 *
X <sub>2</sub> -Extraction time	<0.0001 *	0.0019 *	0.0035 *	0.0102 **	0.0539
X <sub>3</sub> -Ethanol concentration	<0.0001 *	0.3289	0.3728	0.3249	0.1198
<i>Cross product</i>					
X <sub>1</sub> X <sub>2</sub>	0.0074 *	-	0.6025	0.2181	0.3366
X <sub>1</sub> X <sub>3</sub>	0.0224 **	0.5095	0.3822	0.1957	-
X <sub>2</sub> X <sub>3</sub>	-	-	-	0.3691	0.1840
<i>Quadratic</i>					
X <sub>1</sub> <sup>2</sup>	0.0086 *	0.2149	0.7356	0.6131	-
X <sub>2</sub> <sup>2</sup>	-	0.0377 **	0.6720	0.8480	0.3092
X <sub>3</sub> <sup>2</sup>	0.0326 **	0.0608	-	0.6226	0.1342

\**p* < 0.01 – significant

\*\*0.01 < *p* < 0.05 – moderately significant