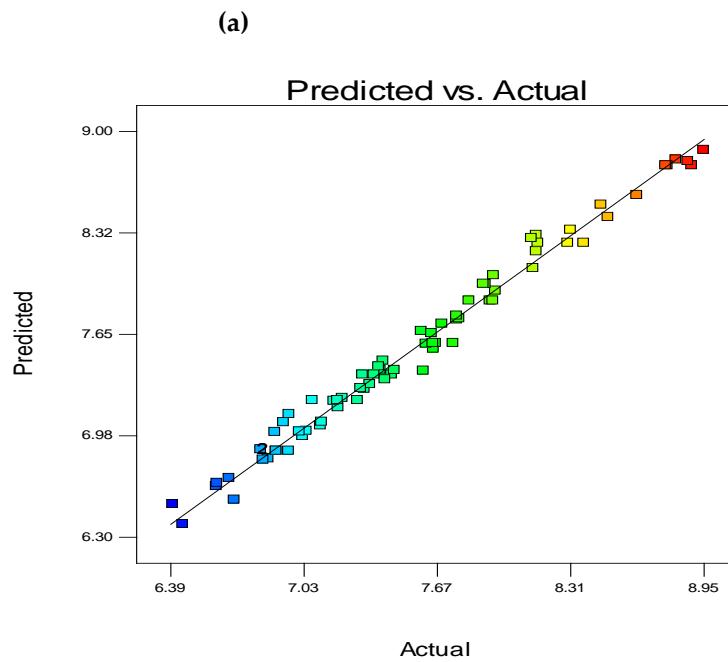


Design-Expert® Software
Ln(PLT)

Color points by value of
Ln(PLT):
8.94637
6.39693



Design-Expert® Software
Ln(PLT)

Color points by value of
Ln(PLT):
8.94637
6.39693

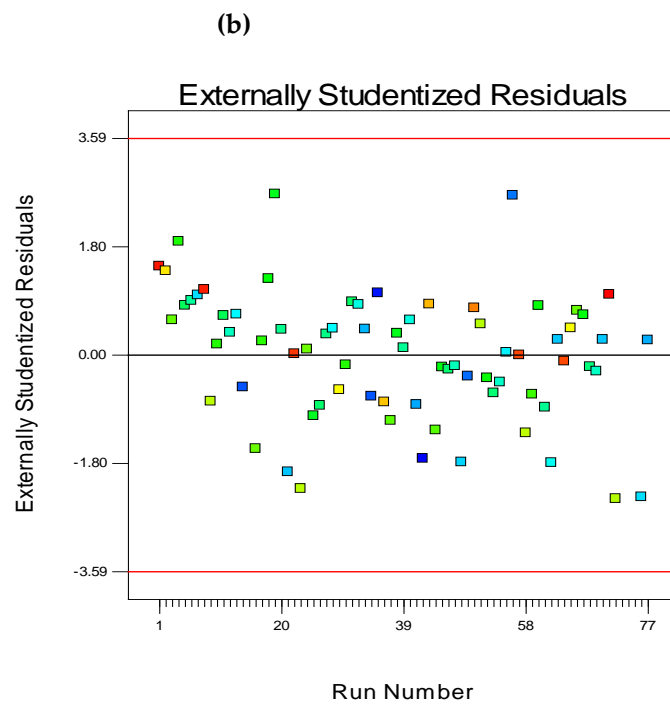
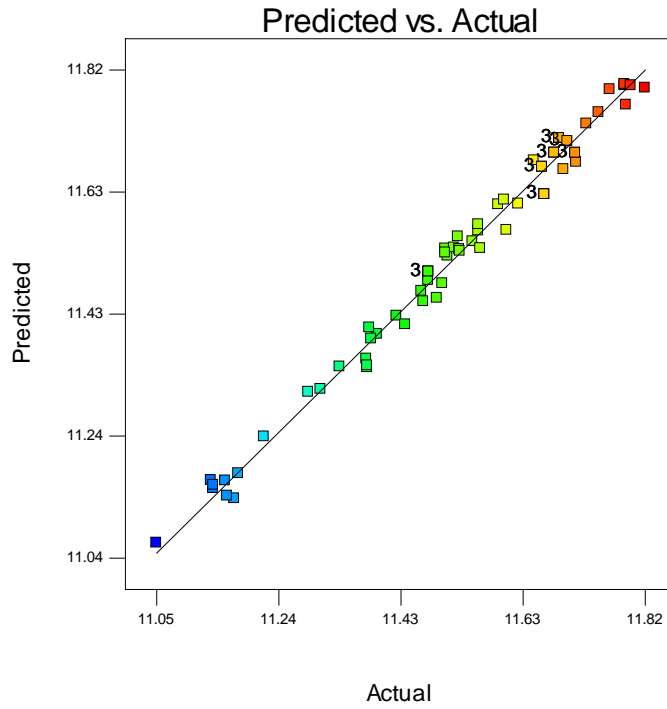


Figure S1. Predicted vs Actual values plot and Externally Studentized Residuals plots of natural logarithm of PP TPE/t response

(i)

Design-Expert® Software
Ln(POL CORRECTED)

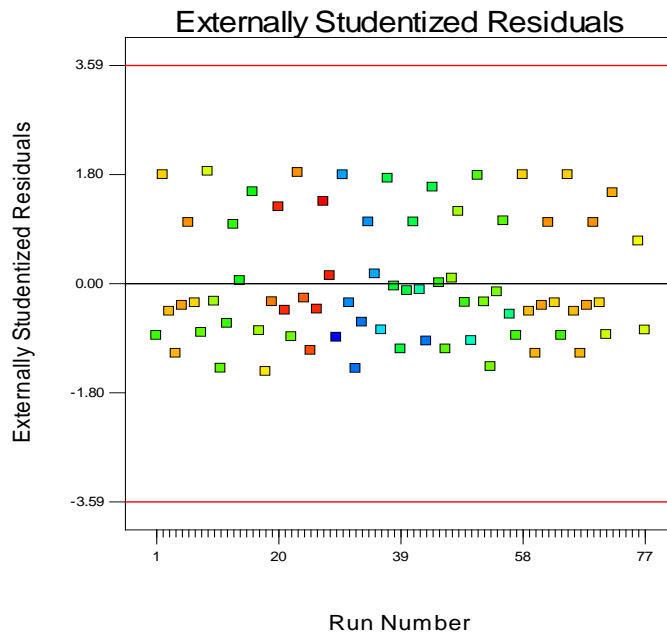
Color points by value of
Ln(POL CORRECTED):
11.8198
11.0481



(ii)

Design-Expert® Software
Ln(POL CORRECTED)

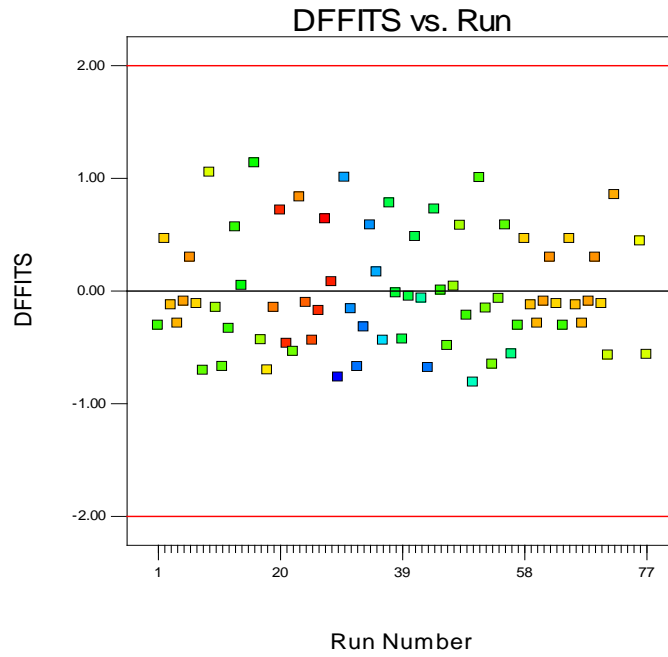
Color points by value of
Ln(POL CORRECTED):
11.8198
11.0481



(iii)

Design-Expert® Software
Ln(POL CORRECTED)

Color points by value of
Ln(POL CORRECTED):



(iv)

Design-Expert® Software
Ln(POL CORRECTED)

Color points by value of
Ln(POL CORRECTED):

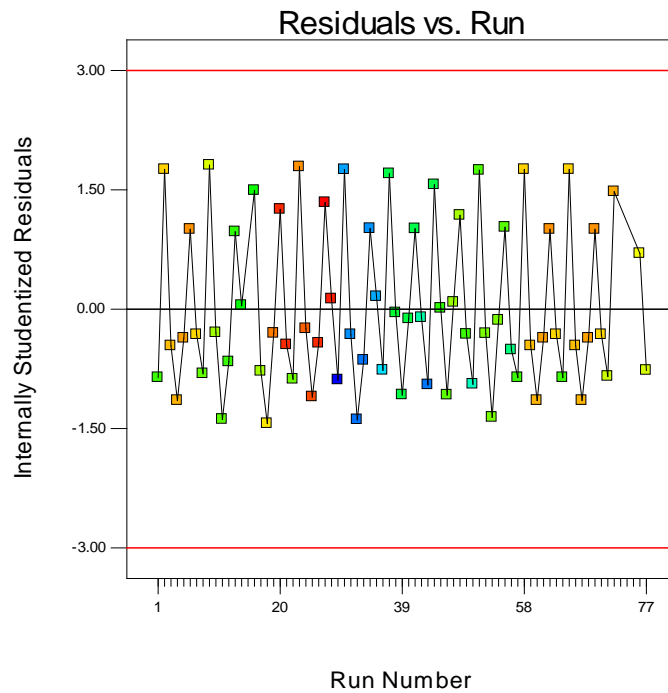
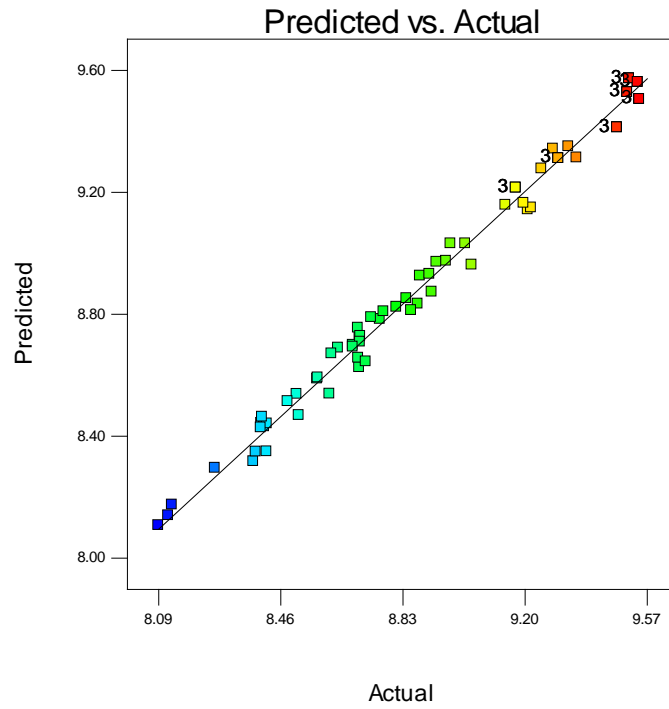


Figure S2. i) Predicted vs Actual values plot ii) Externally Studentized Residuals plot
iii) DFFITS vs Run and iv) Residuals vs. Run plots of natural logarithm PP
TPE response

(i)

Design-Expert® Software
Ln(FLT2 CORRECTED)

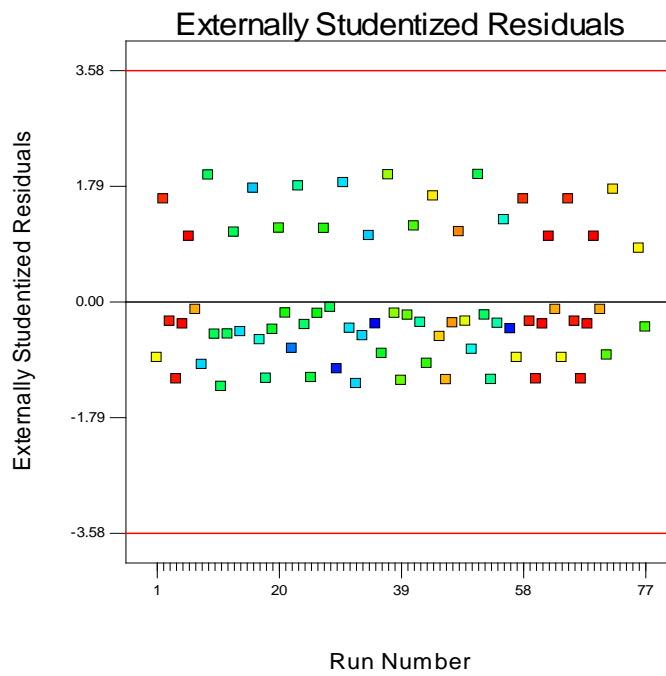
Color points by value of
Ln(FLT2 CORRECTED):
9.54962
8.09498



(ii)

Design-Expert® Software
Ln(FLT2 CORRECTED)

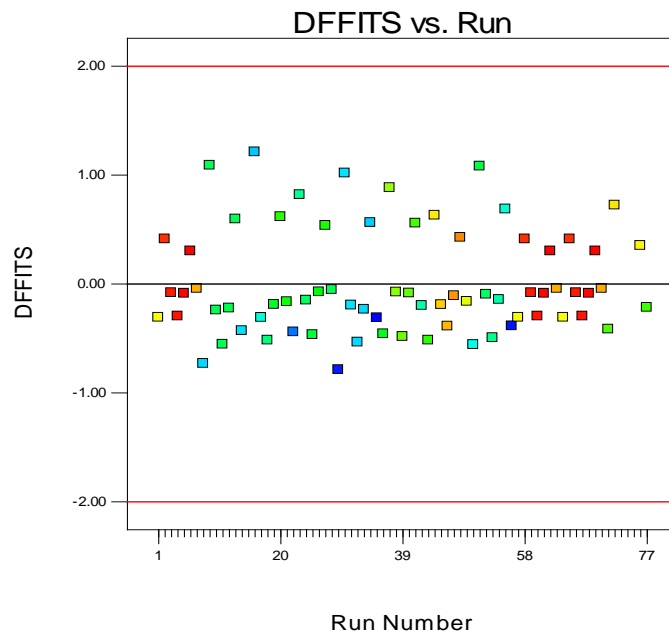
Color points by value of
Ln(FLT2 CORRECTED):
9.54962
8.09498



(iii)

Design-Expert® Software
Ln(FLT2 CORRECTED)

Color points by value of
Ln(FLT2 CORRECTED):
9.54962
8.09498



(iv)

Design-Expert® Software
Ln(FLT2 CORRECTED)

Color points by value of
Ln(FLT2 CORRECTED):
9.54962
8.09498

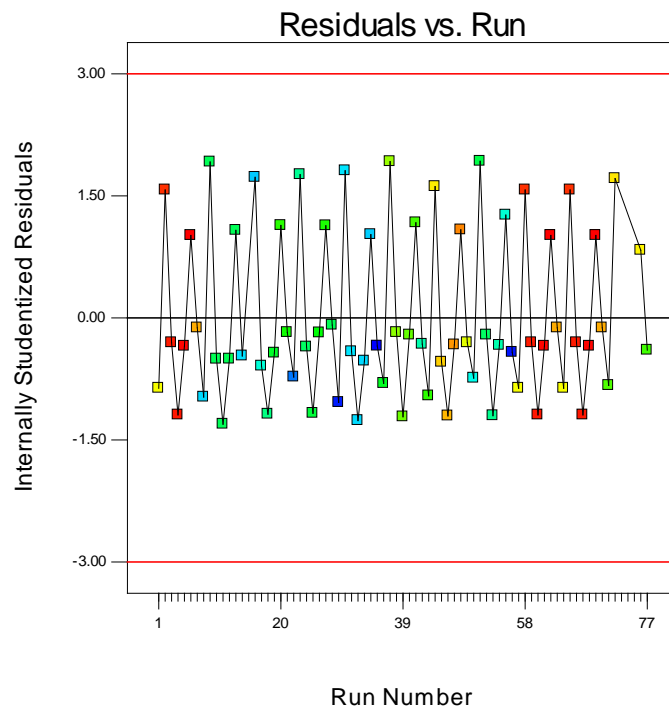


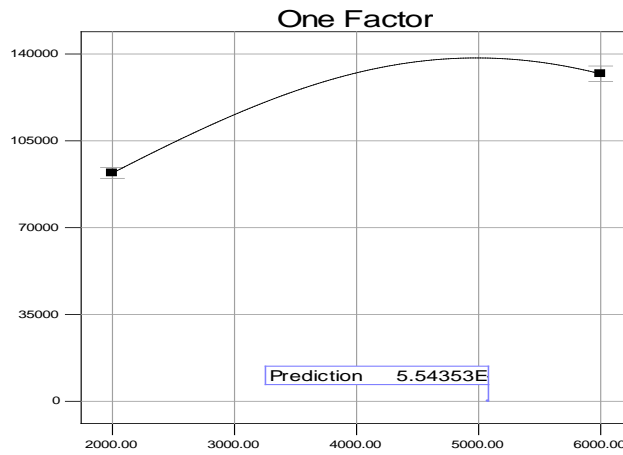
Figure S3. i) Predicted vs Actual values plot ii) Externally Studentized Residuals plot (iii) DFFITS vs Run and (iv) Residuals vs. Run plots for the natural logarithm of PP TFE response

Design-Expert® Software
Original Scale
Ln(POL CORRECTED)

X1 = A: A

Actual Factors
B: B = 29.92
C: C = 119.15

TPE: Amount of extracted PP TP (mg GAE 2 Kg⁻¹)



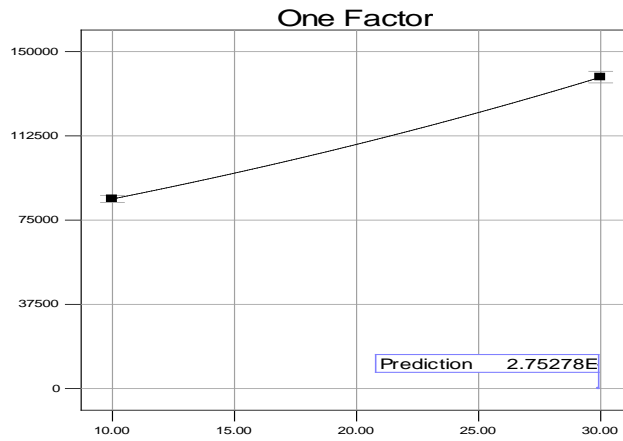
A: A

Design-Expert® Software
Original Scale
Ln(POL CORRECTED)

X1 = B: B

Actual Factors
A: A = 5080.42
C: C = 119.15

TPE: Amount of extracted PP TP (mg GAE 2 Kg⁻¹)



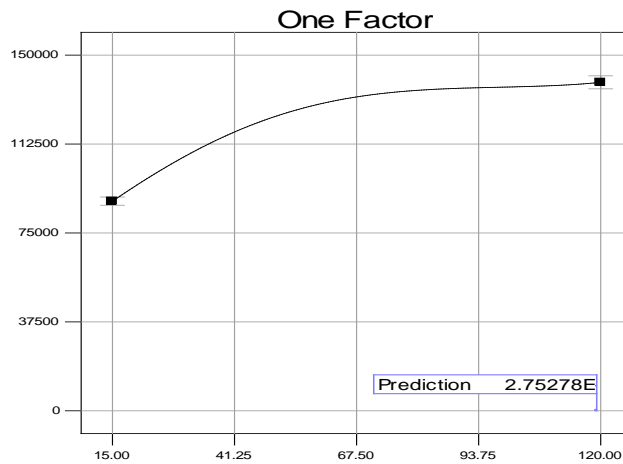
B: B

Design-Expert® Software
Original Scale
Ln(POL CORRECTED)

X1 = C: C

Actual Factors
A: A = 5080.42
B: B = 29.92

TPE: Amount of extracted PP TP (mg GAE 2 Kg⁻¹)



C: C

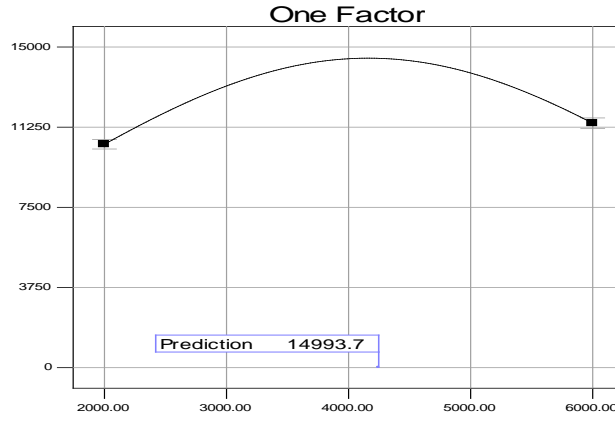
Figure S4. The effect of the individual extraction parameters A, B, C on the extracted amount of total polyphenols TPE.

Design-Expert® Software
Original Scale
Ln(FLT2 CORRECTED)

X1 = A: A

Actual Factors
B: B = 19.34
C: C = 64.53

TFE: Amount of extracted PP TF (mg QE 2Kg⁻¹)



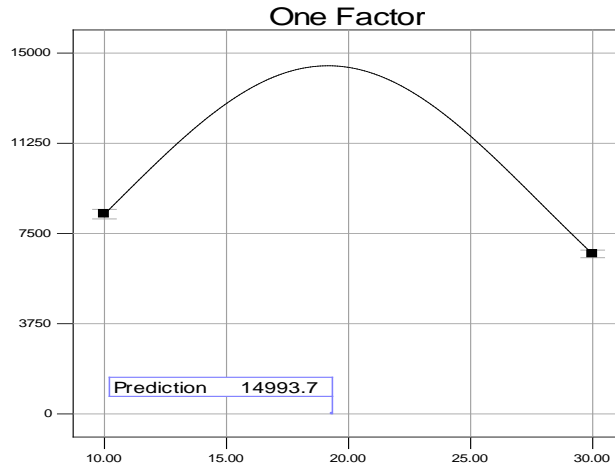
A: A

Design-Expert® Software
Original Scale
Ln(FLT2 CORRECTED)

X1 = B: B

Actual Factors
A: A = 4247.24
C: C = 64.53

TFE: Amount of extracted PP TF (mg QE 2Kg⁻¹)



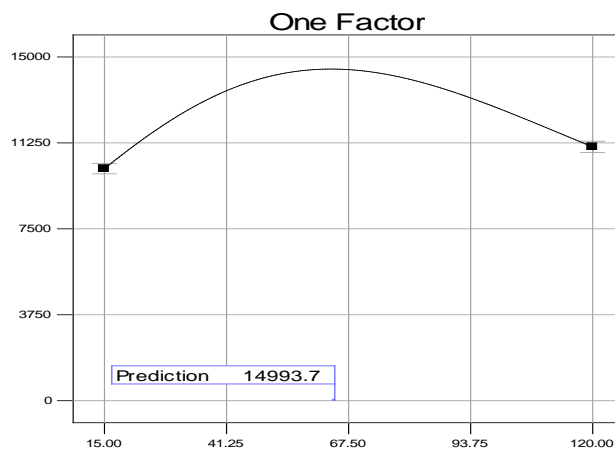
B: B

Design-Expert® Software
Original Scale
Ln(FLT2 CORRECTED)

X1 = C: C

Actual Factors
A: A = 4247.24
B: B = 19.34

TFE: Amount of extracted PP TF (mg QE 2Kg⁻¹)



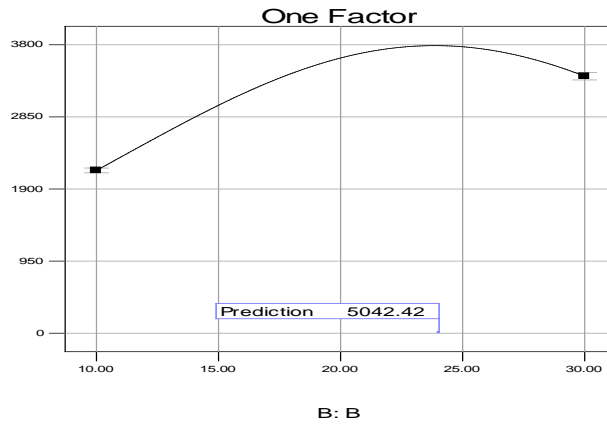
C: C

Figure S5. The effect of the individual extraction parameters A, B, C on the extracted amount of TFE

Design-Expert® Software
Original Scale
Ln(RATE TPE)

X1 = B: B
Actual Factors
A: A = 2120.30
C: C = 15.07

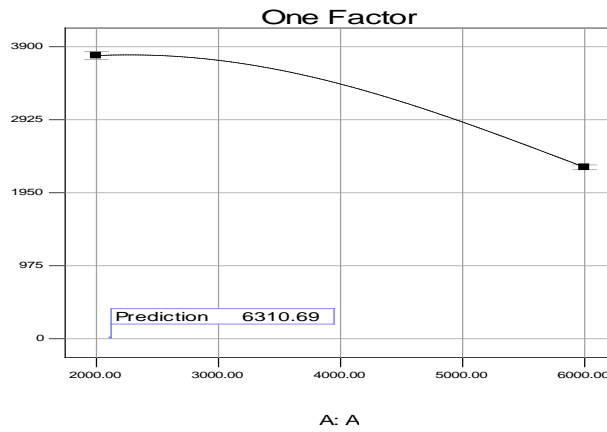
RTPE: Extraction Rate of PP TP (mg GAE Kg⁻¹ min⁻¹)



Design-Expert® Software
Original Scale
Ln(RATE TPE)

X1 = A: A
Actual Factors
B: B = 24.04
C: C = 15.07

RTPE: Extraction Rate of PP TP (mg GAE Kg⁻¹ min⁻¹)



Design-Expert® Software
Original Scale
Ln(RATE TPE)

X1 = C: C
Actual Factors
A: A = 2120.30
B: B = 24.04

RTPE: Extraction Rate of PP TP (mg GAE Kg⁻¹ min⁻¹)

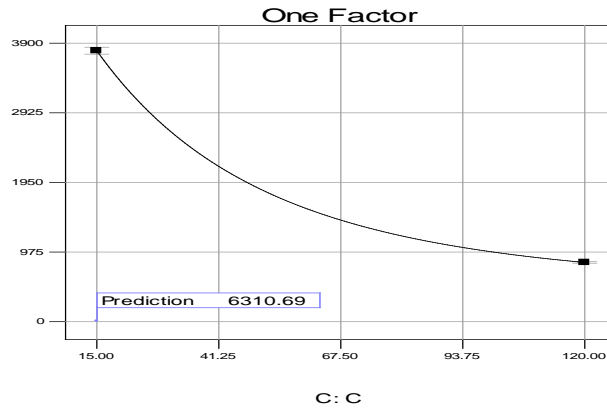


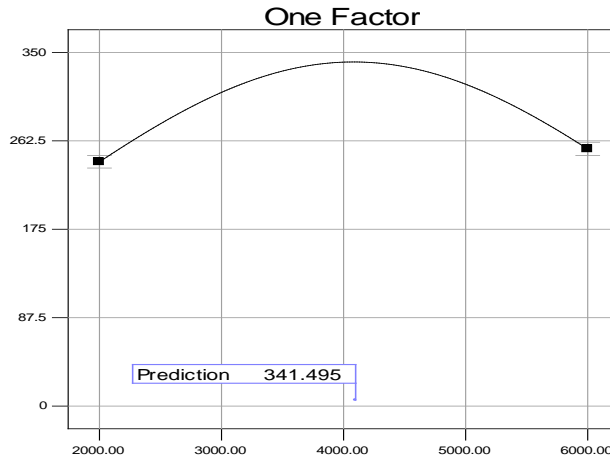
Figure S6. The effect of the individual extraction parameters A, B, C on the extraction rate of PP total polyphenols.

Design-Expert® Software
Original Scale
Ln(RATE OF TFE)

X1 = A: A

Actual Factors
B: B = 17.48
C: C = 15.02

RTFE: Extraction Rate of PP TF (mg QE Kg⁻¹ min⁻¹)



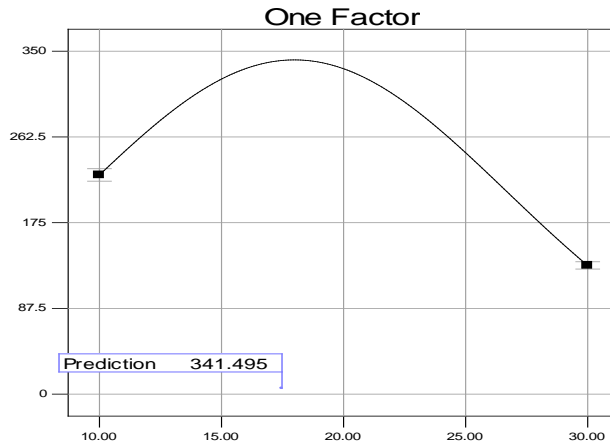
A: A

Design-Expert® Software
Original Scale
Ln(RATE OF TFE)

X1 = B: B

Actual Factors
A: A = 4099.15
C: C = 15.02

RTFE: Extraction Rate of PP TF (mg QE Kg⁻¹ min⁻¹)



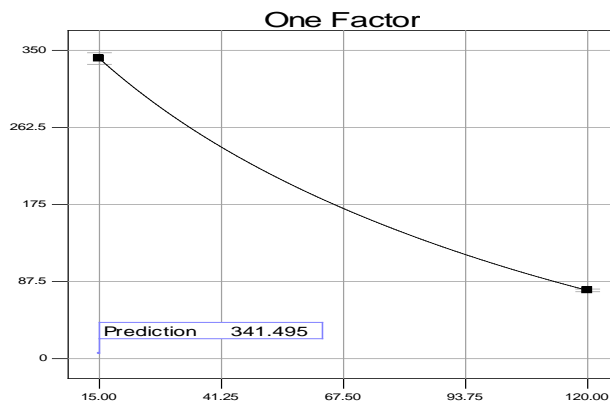
B: B

Design-Expert® Software
Original Scale
Ln(RATE OF TFE)

X1 = C: C

Actual Factors
A: A = 4099.15
B: B = 17.48

RTFE: Extraction Rate of PP TF (mg QE Kg⁻¹ min⁻¹)



C: C

Figure S7. The effect of the individual extraction parameters A, B, C on the extraction rate of the PP total flavonoids.