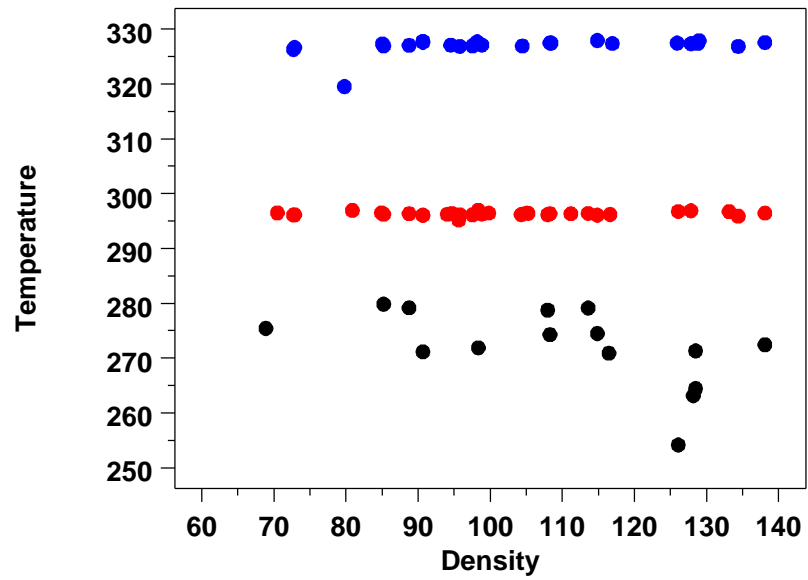
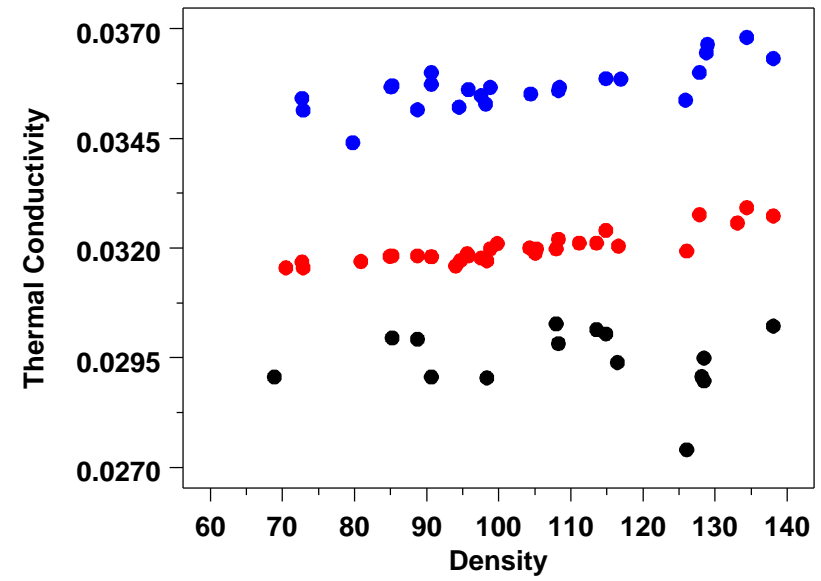
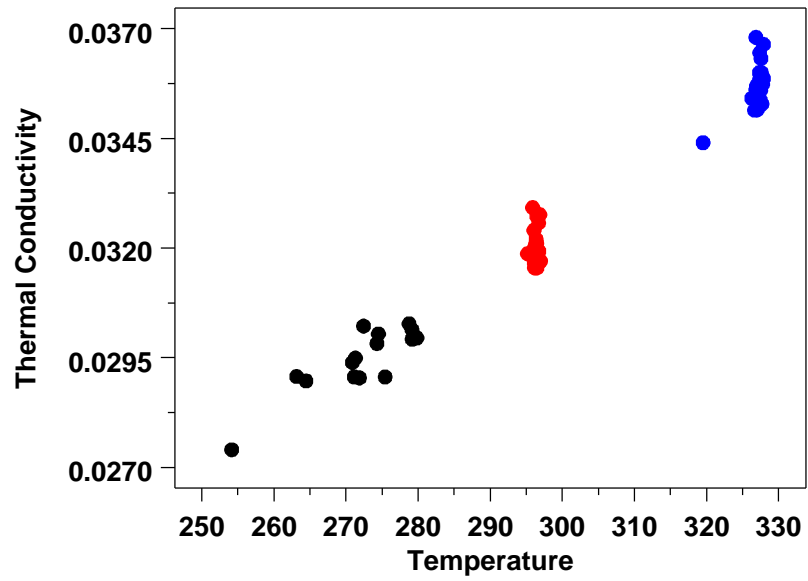
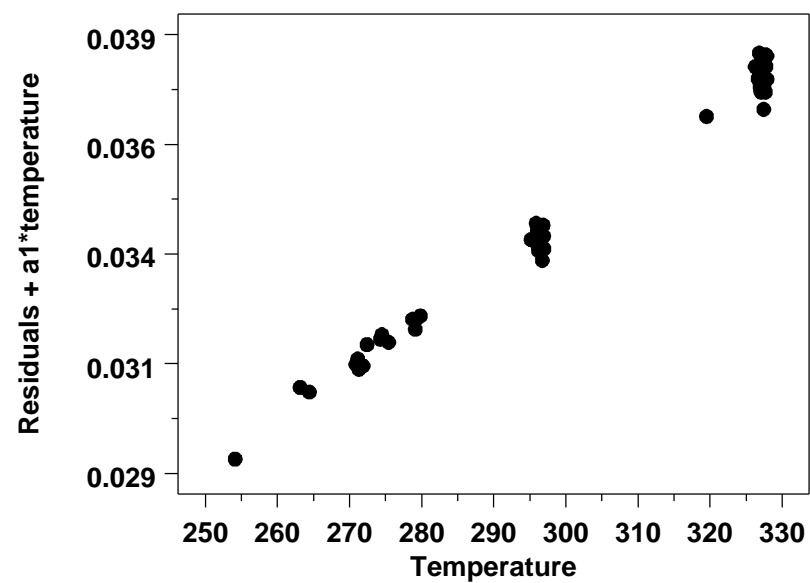
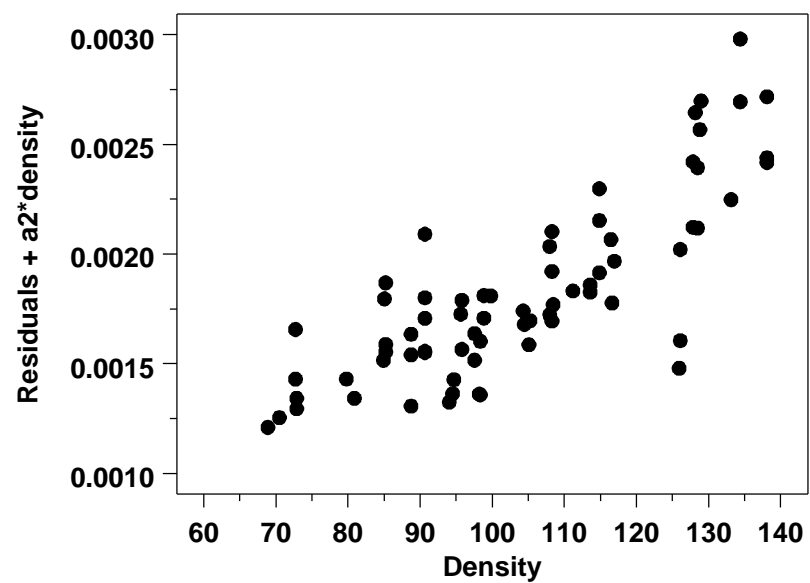


Dataset 1450a: Raw Data



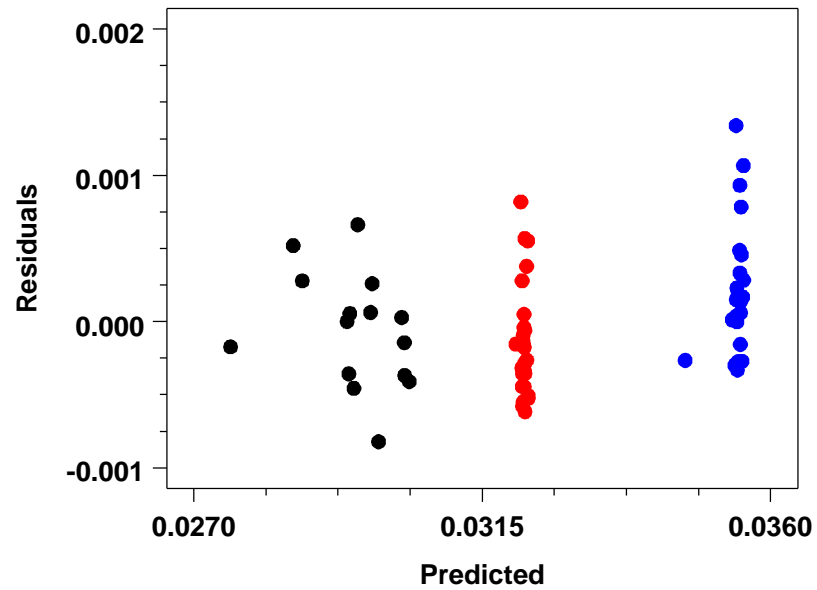
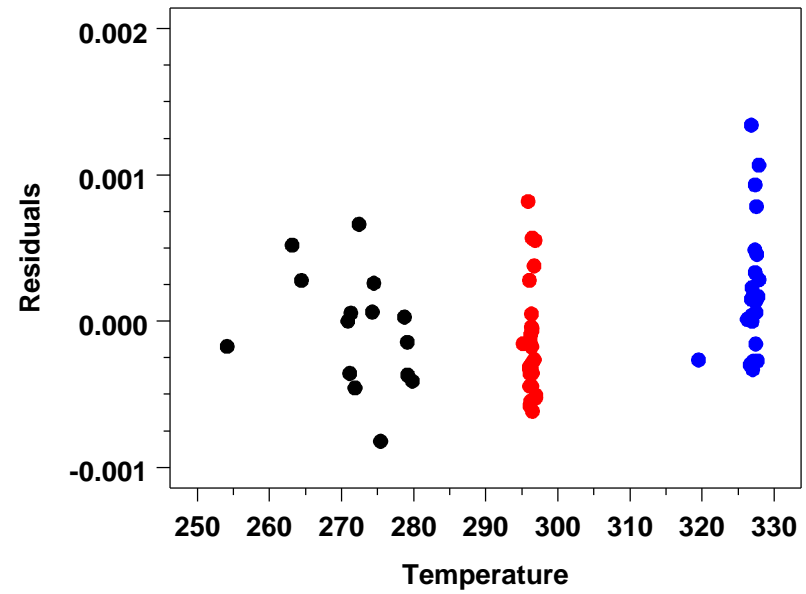
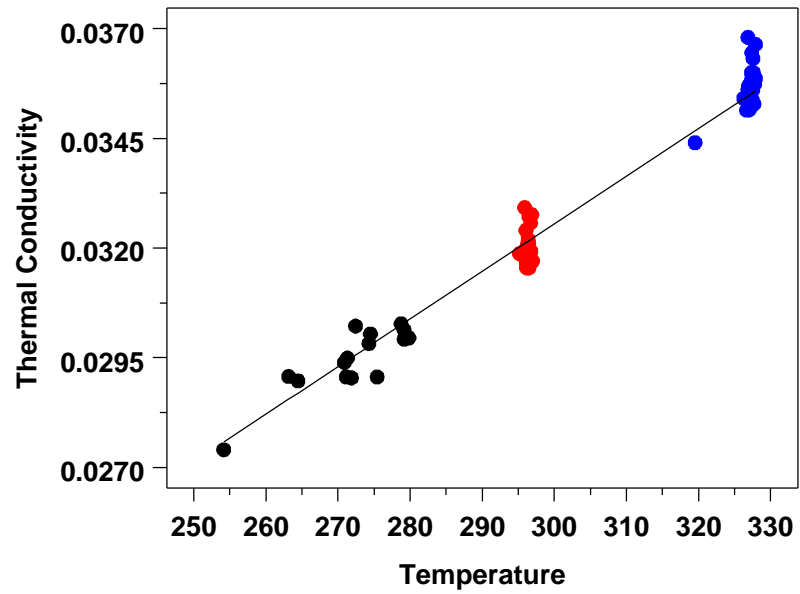
- -  $\text{Temperature} < 290$
- -  $290 < \text{Temperature} < 310$
- -  $\text{Temperature} > 310$

Dataset 1450a: Partial Residual Plots



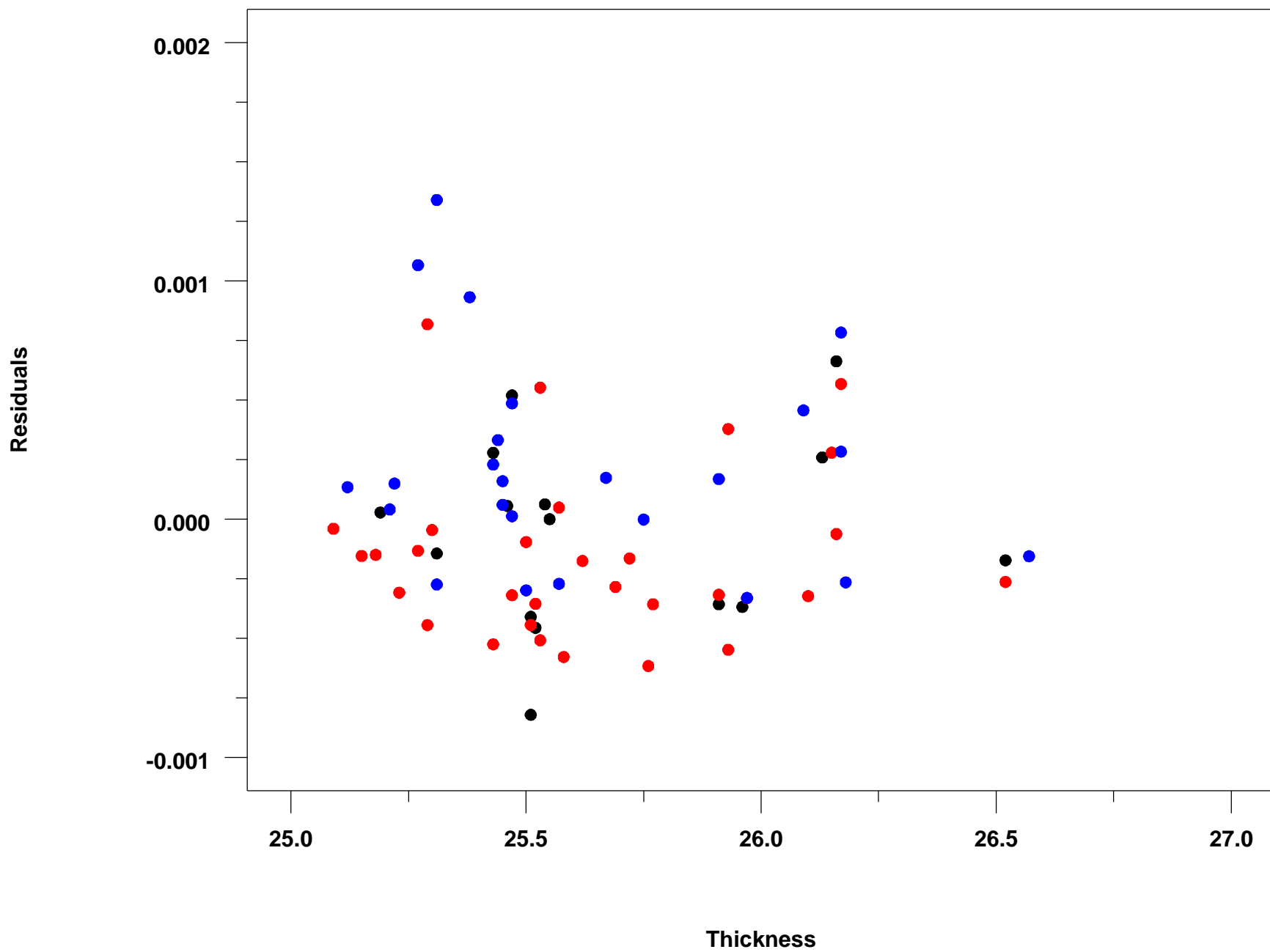
1450a Dataset Model 1:  $k = 0.0001084962 \cdot t$

RESSD: 0.0004244096, BIC: -1082.82512

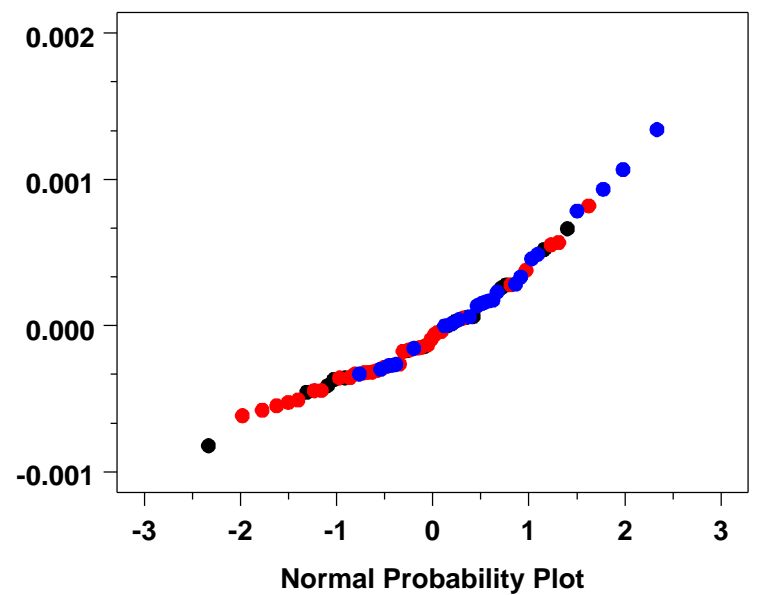
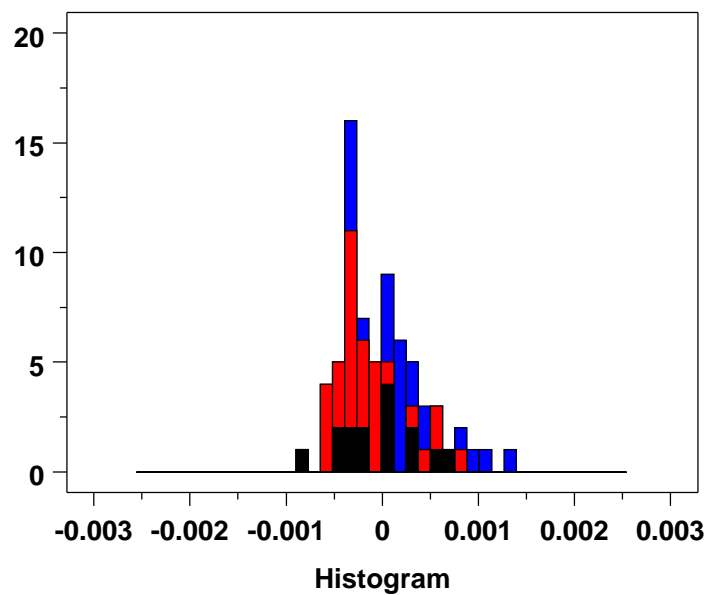
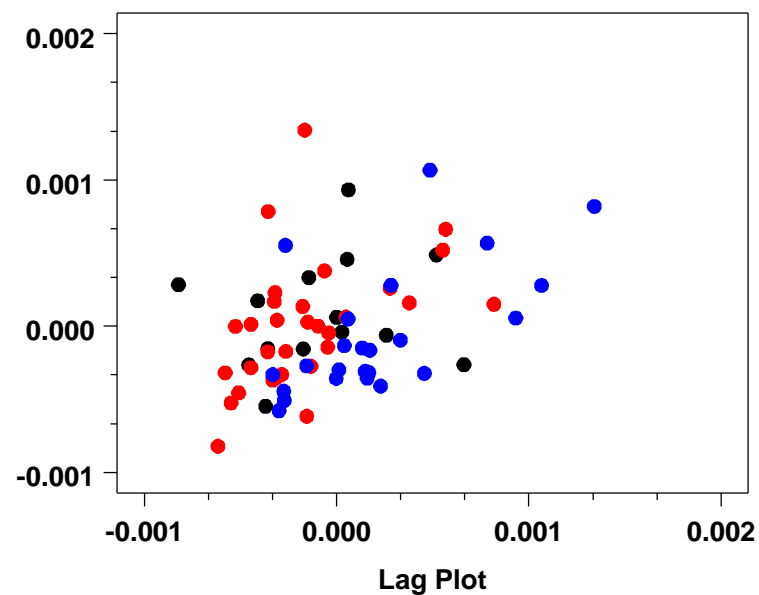
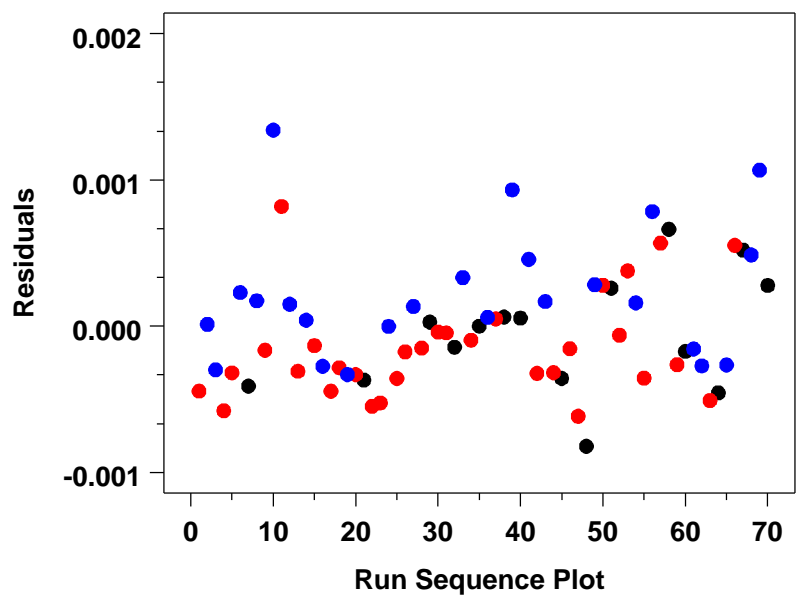


- - Temperature < 290
- - 290 < Temperature < 310
- - Temperature > 310

1450a Dataset Model 1: Nuisance Factors Versus Residuals



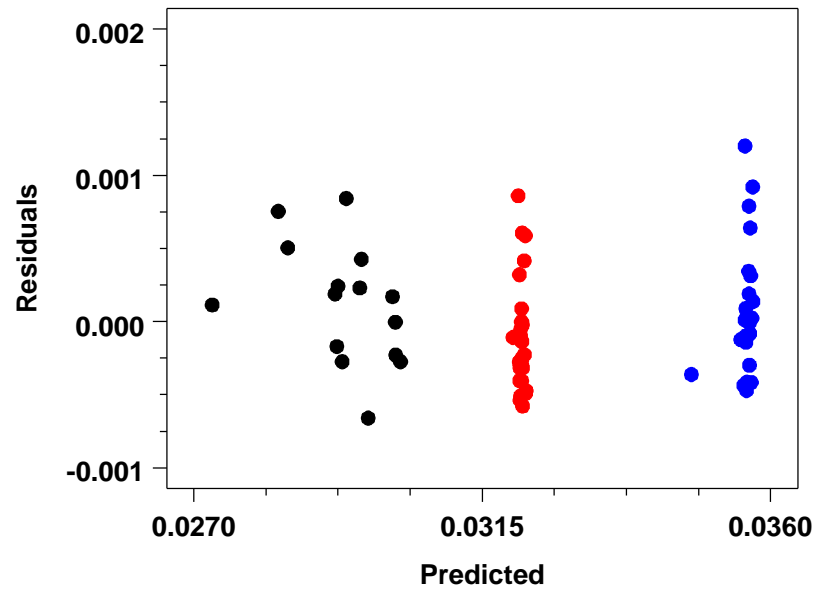
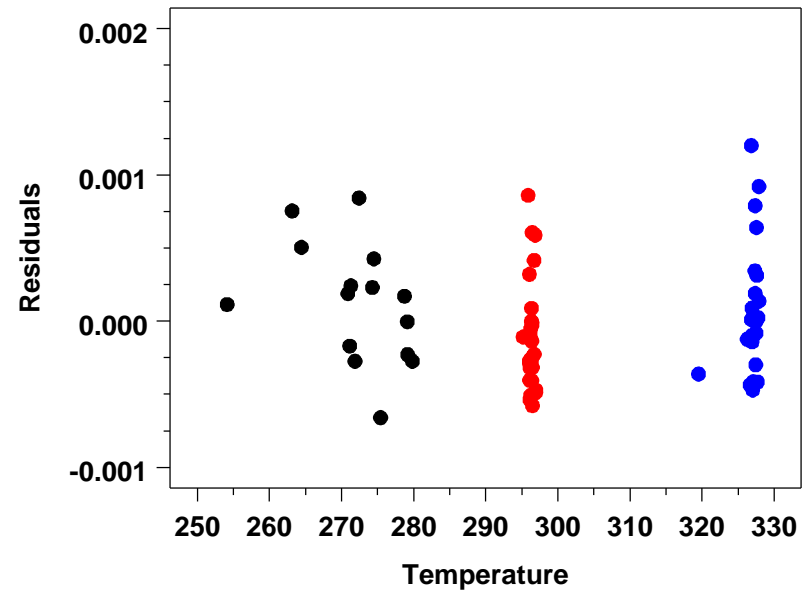
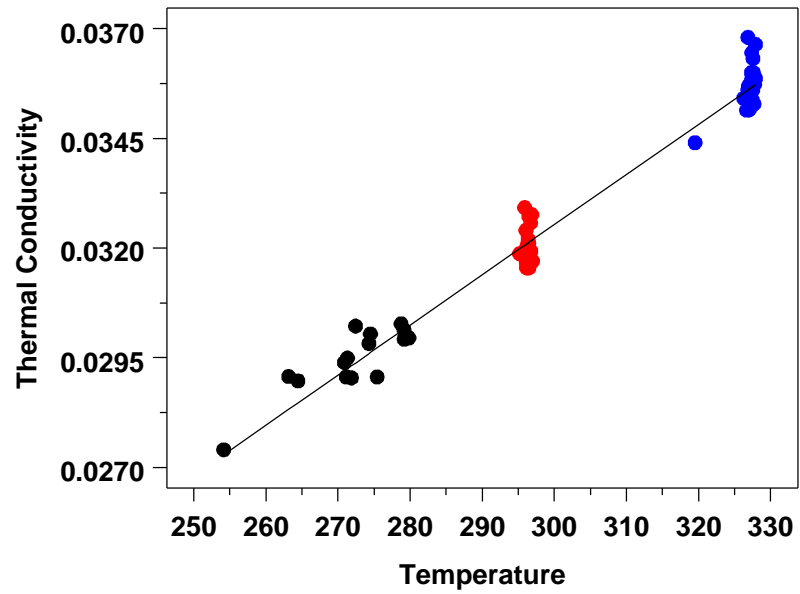
1450a Dataset Model 1: 4-Plot of the Residuals



PPCC = 0.9725

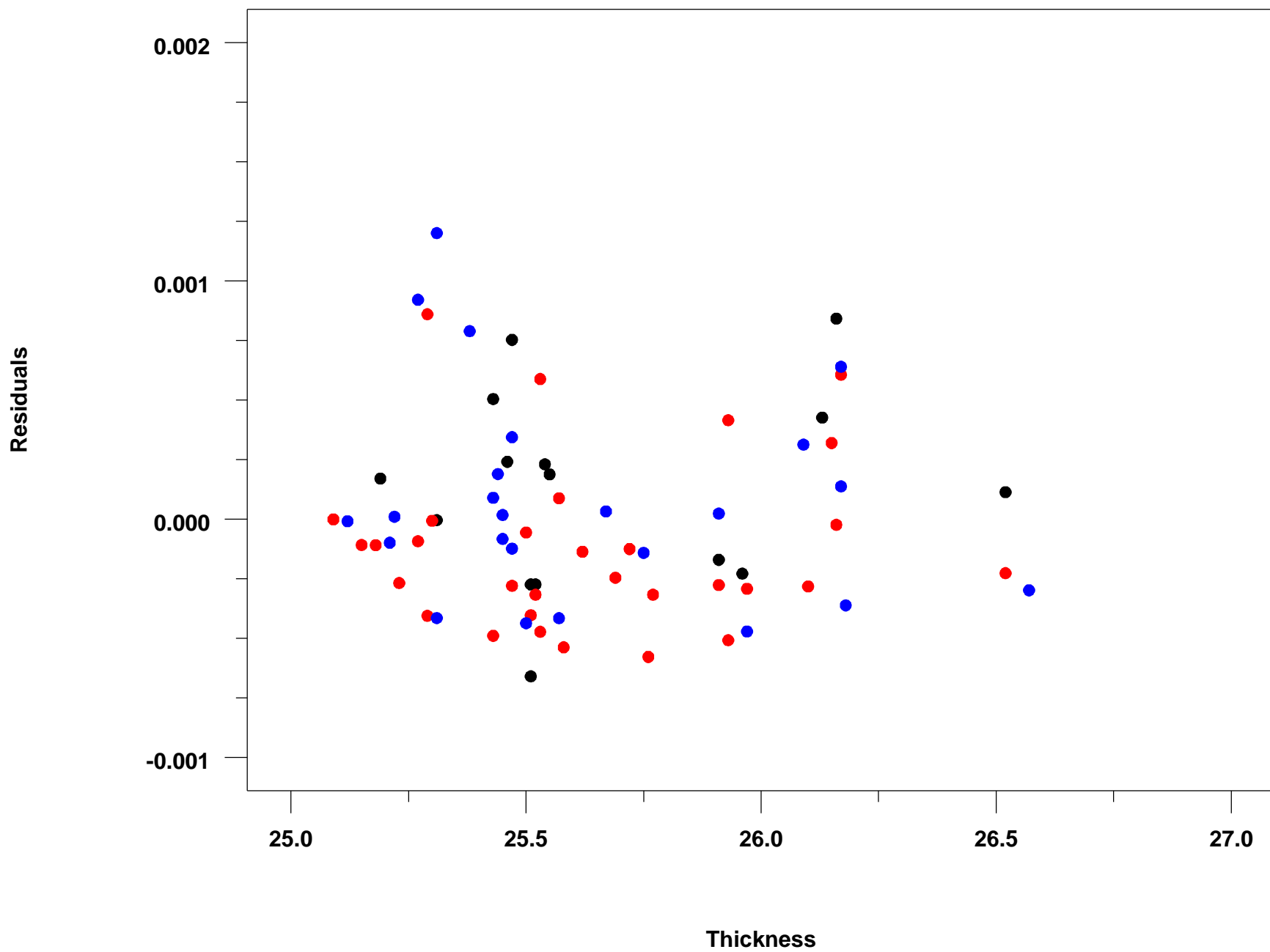
1450a Dataset Model 2:  $k = -0.001774609 + 0.0001143524 \cdot t$

RESSD: 0.000409274, BIC: -1083.660612

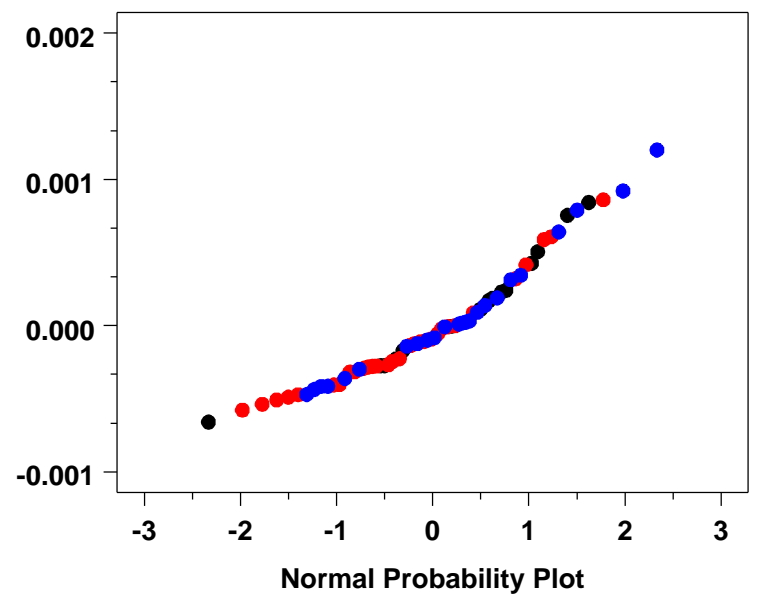
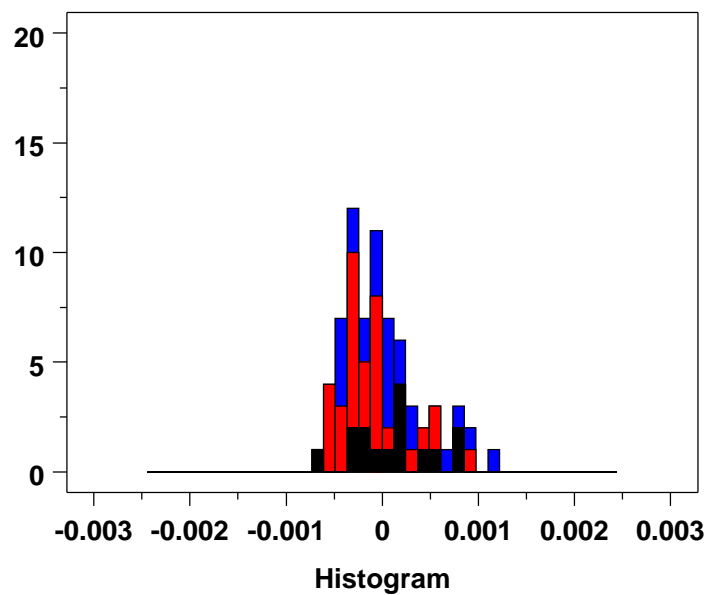
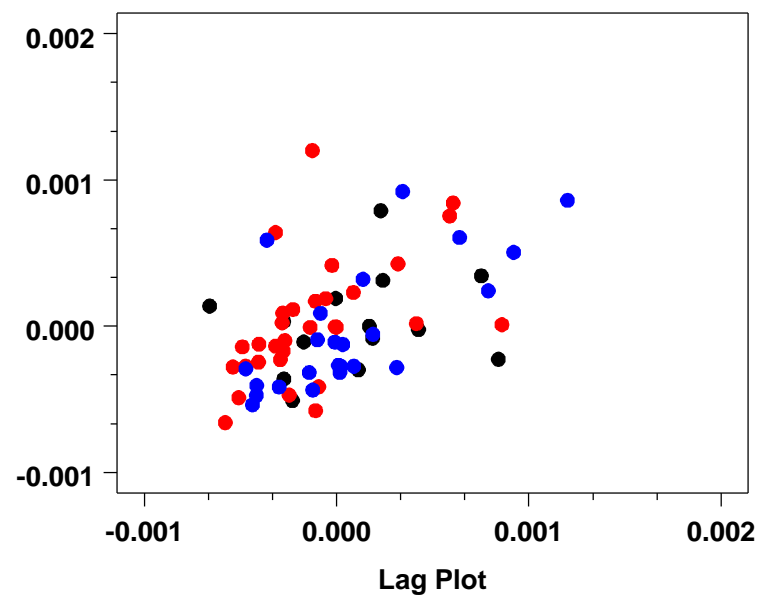
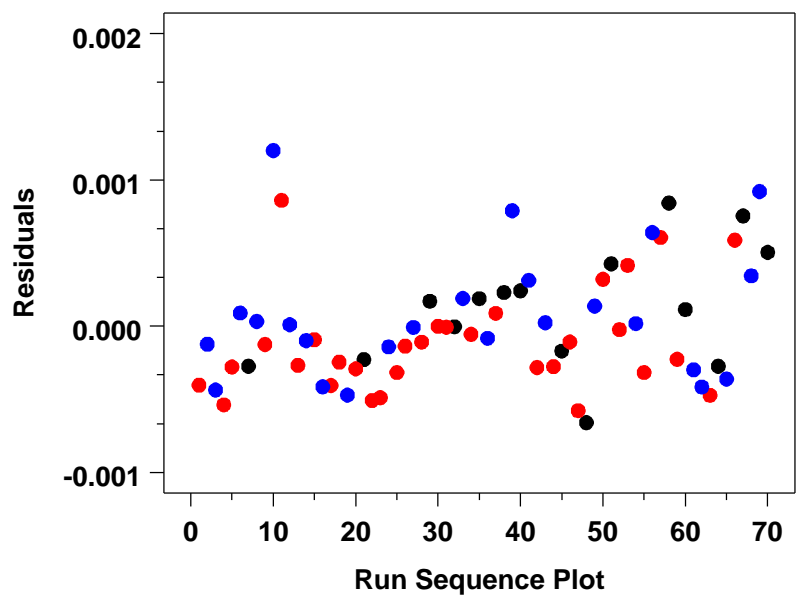


- - Temperature < 290
- - 290 < Temperature < 310
- - Temperature > 310

1450a Dataset Model 2: Nuisance Factors Versus Residuals



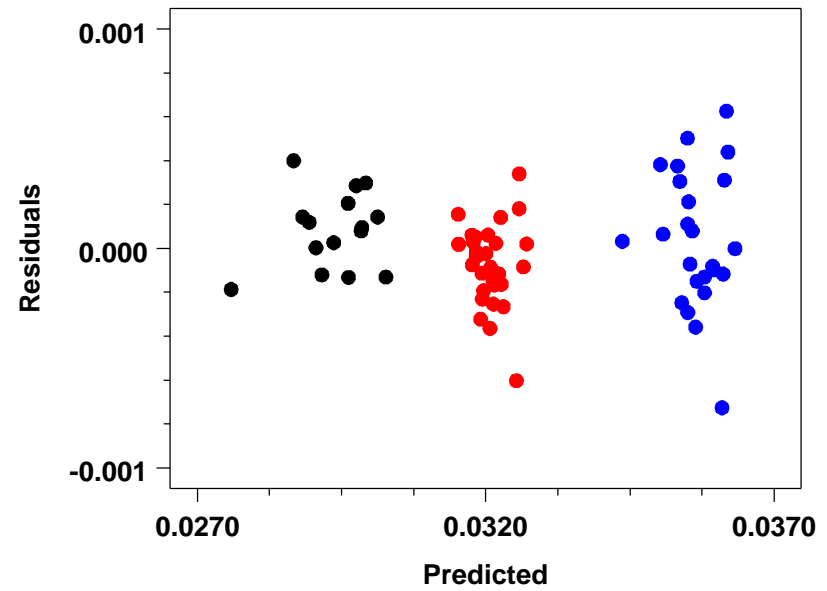
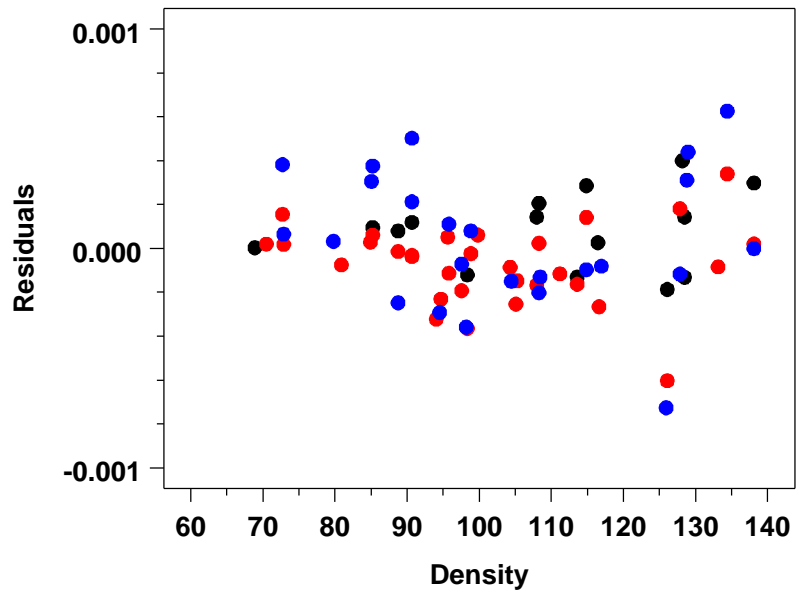
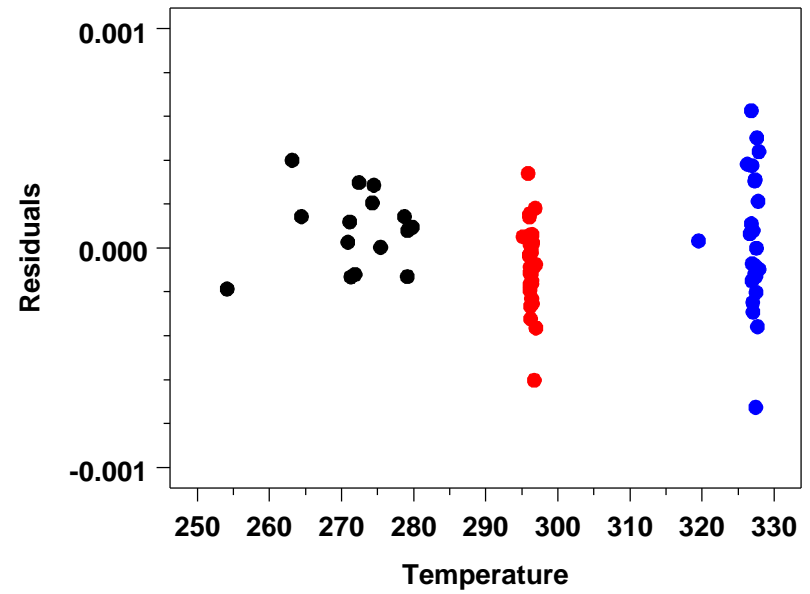
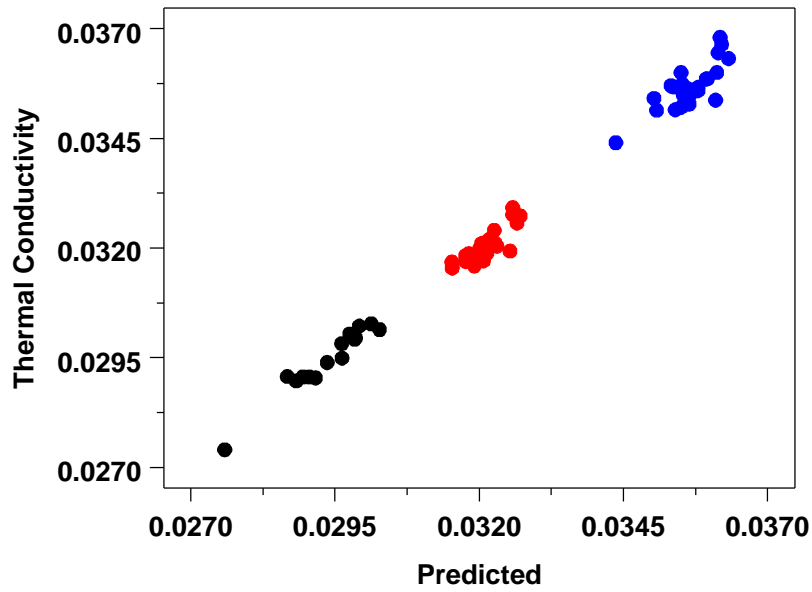
1450a Dataset Model 2: 4-Plot of the Residuals



PPCC = 0.9696

1450a Dataset Model 3:  $k = -0.004132295 + 0.0001161234 \cdot t + 0.000017515 \cdot d$

RESSD: 0.0002439624, BIC: -1151.844015

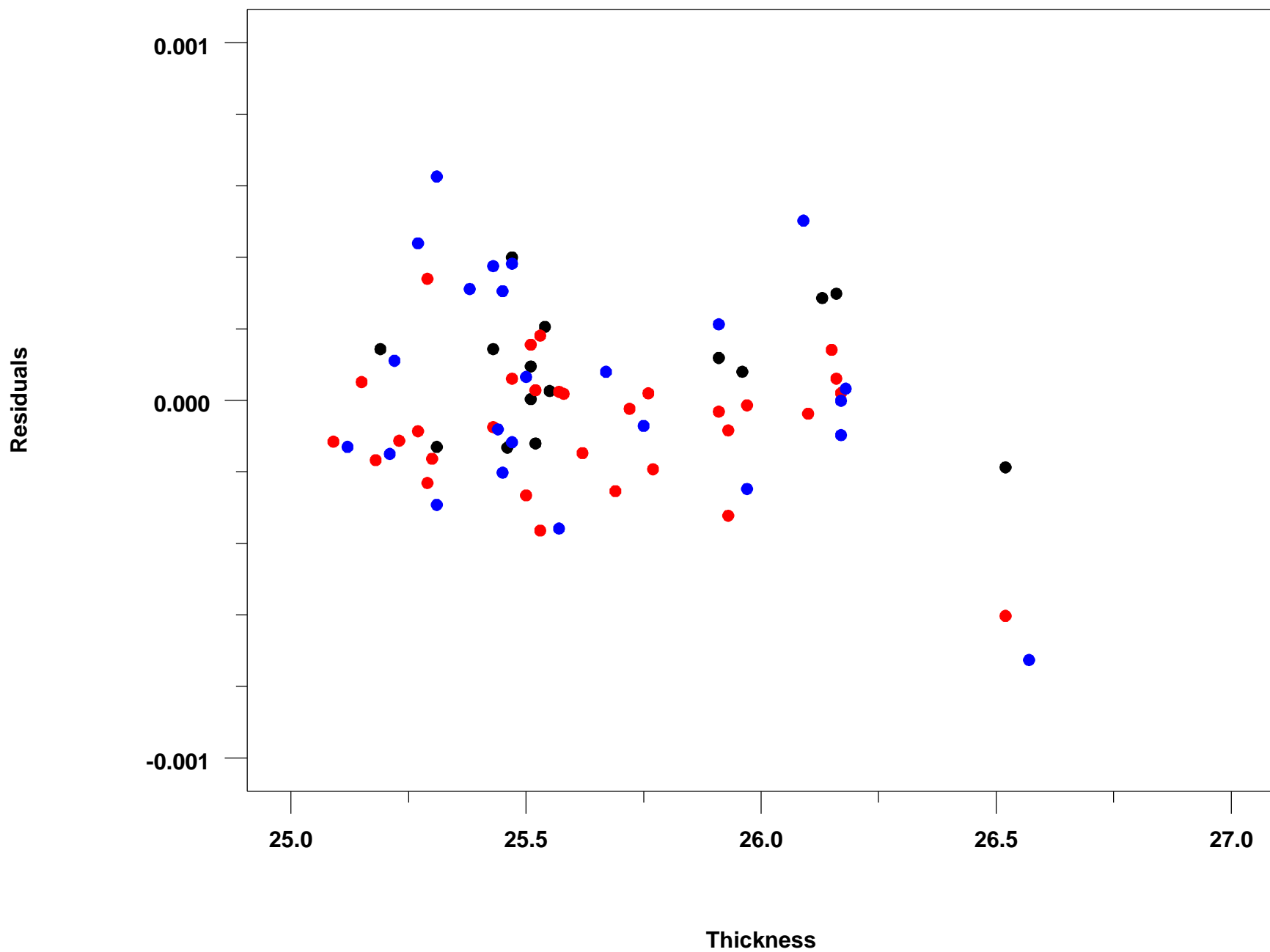


● - Temperature < 290,

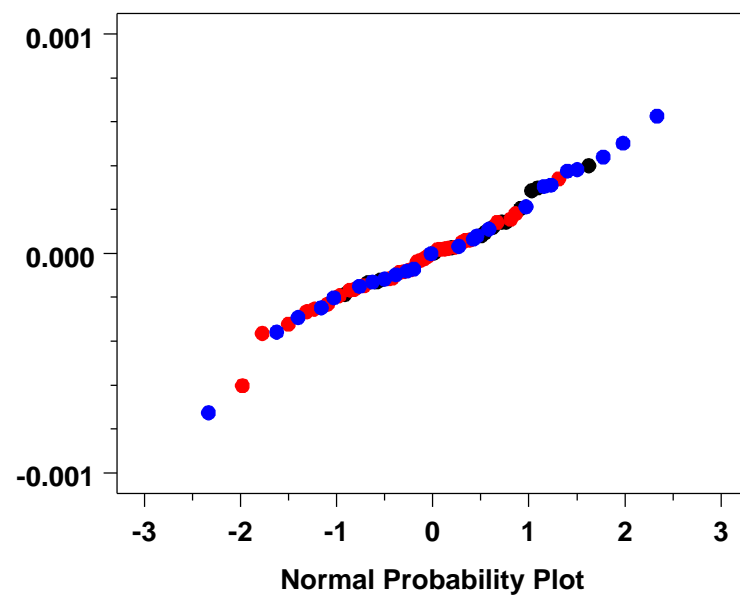
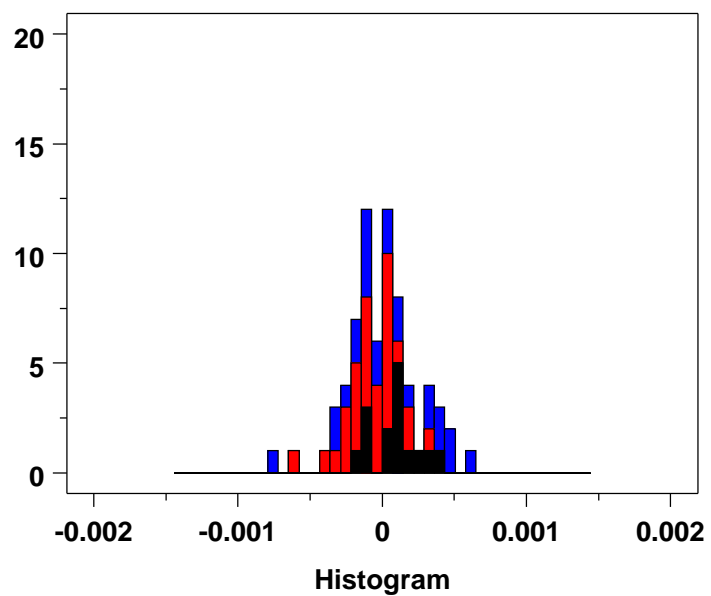
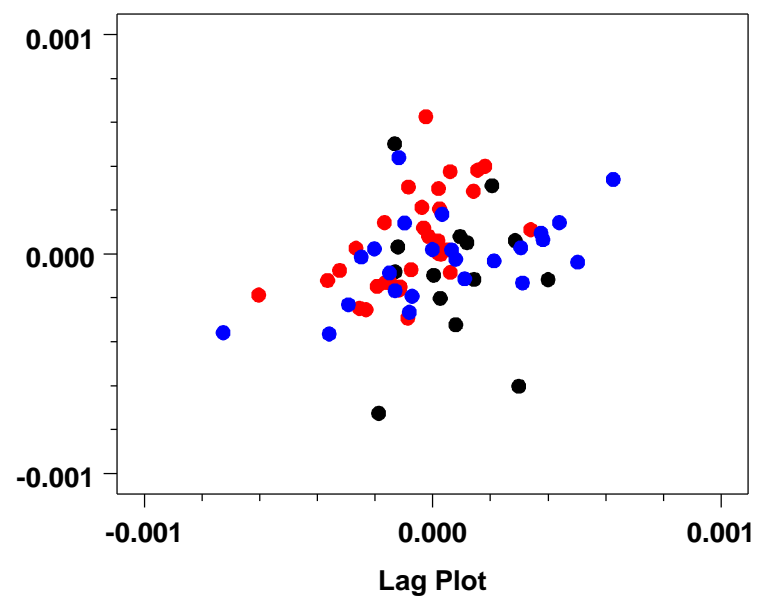
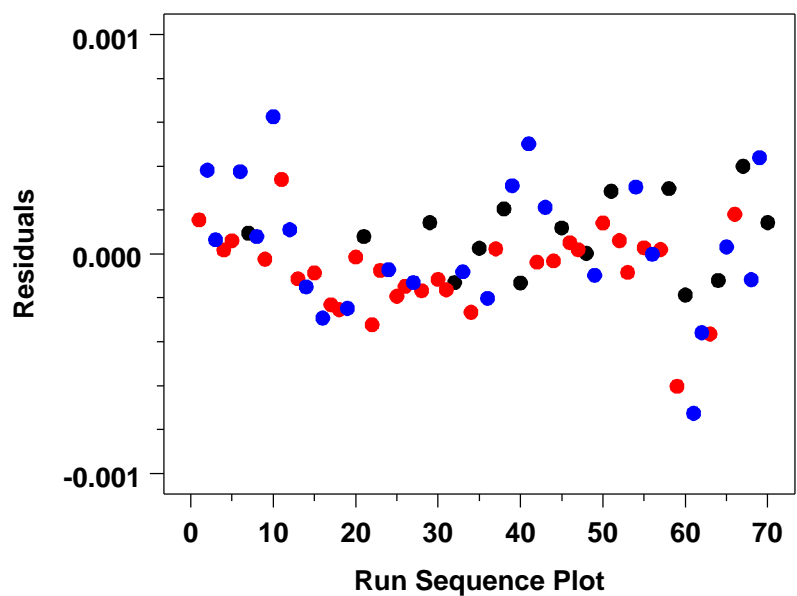
● -  $290 < \text{Temperature} < 310$ ,

● - Temperature > 310

1450a Dataset Model 3: Nuisance Factors Versus Residuals



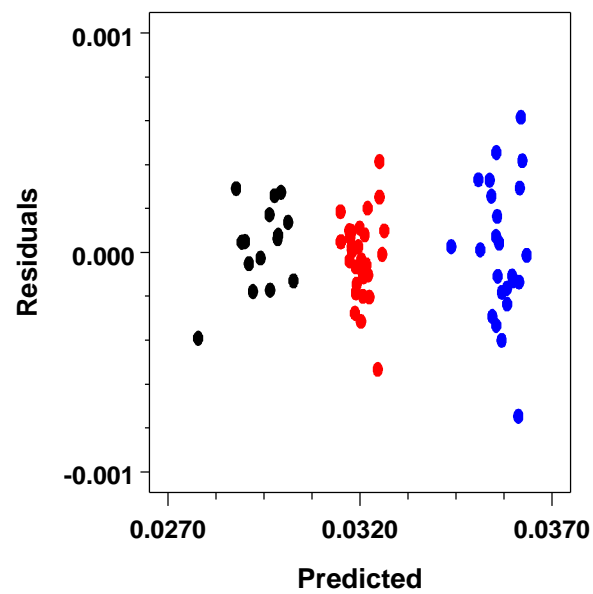
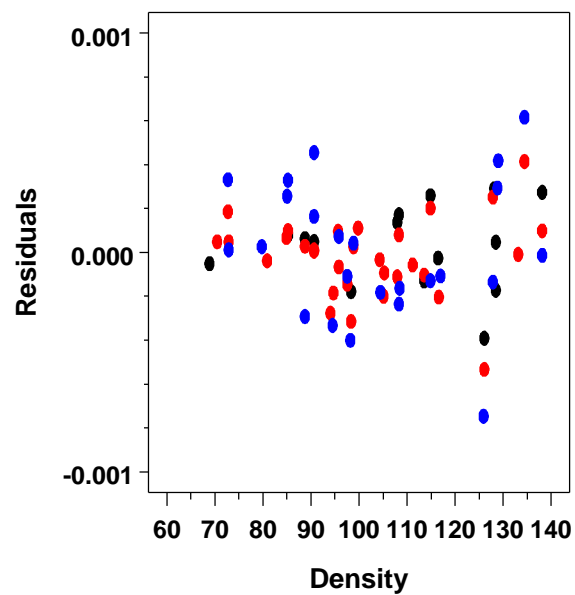
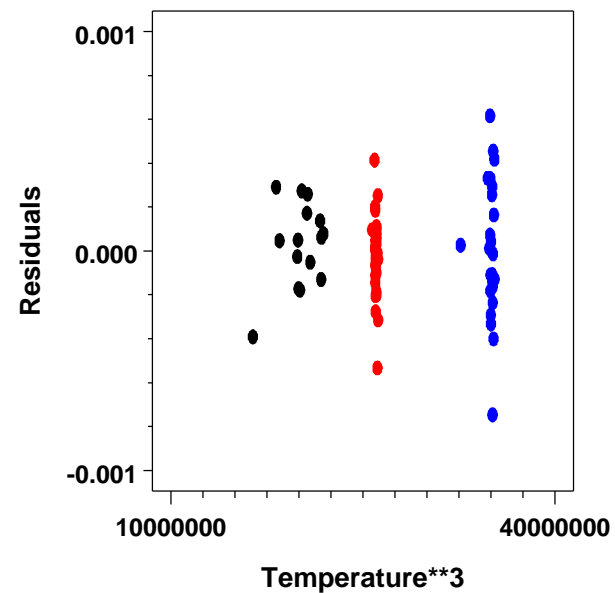
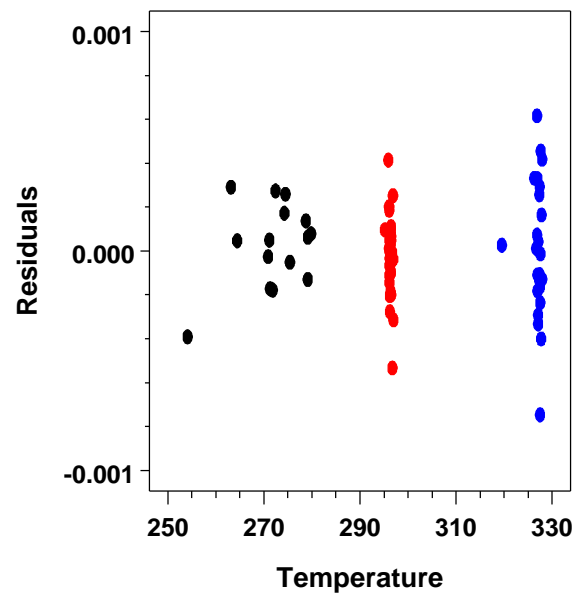
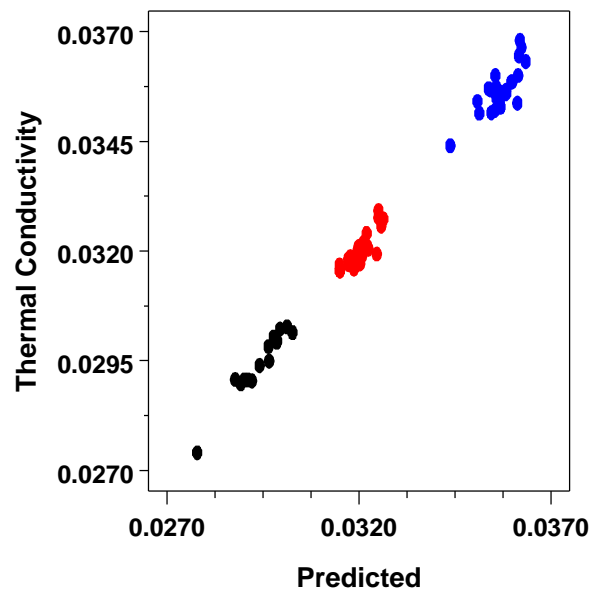
1450a Dataset Model 3: 4-Plot of the Residuals



PPCC = 0.9875

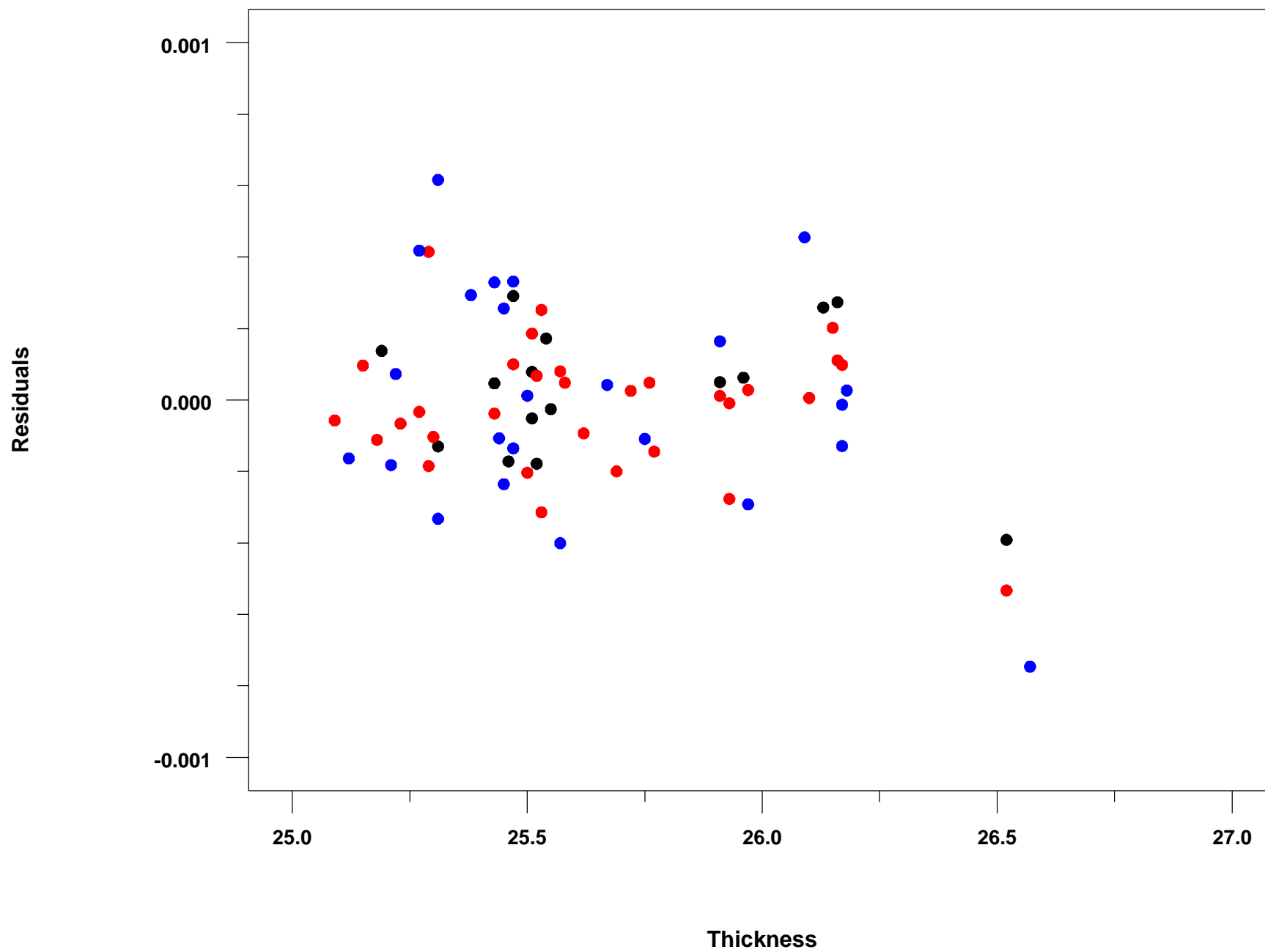
1450a Dataset Model 4:  $k = 0.0038366182 + 0.000076545 \cdot t + 0.0000167848 \cdot d + 0 \cdot t^3$

RESSD: 0.0002395696, BIC: -1150.139332

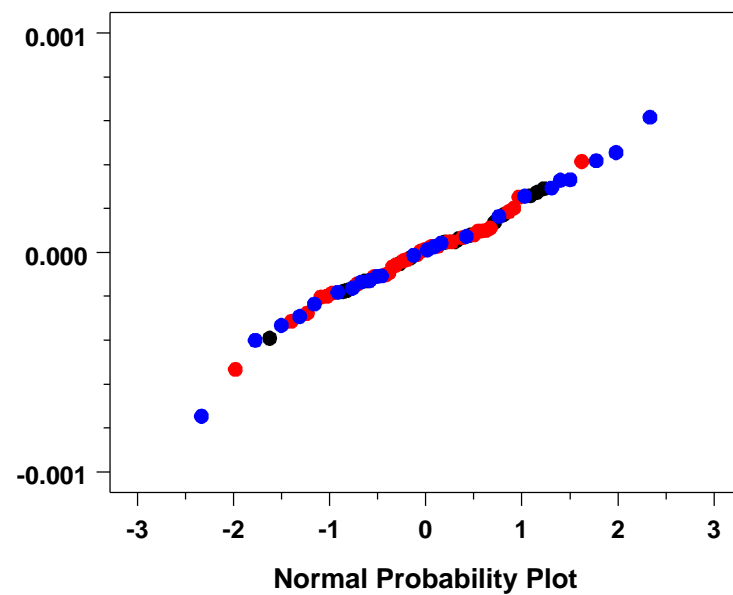
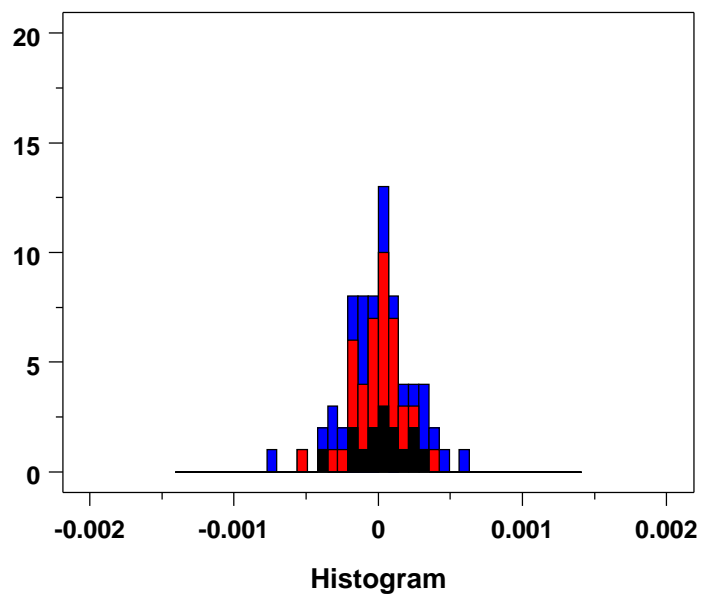
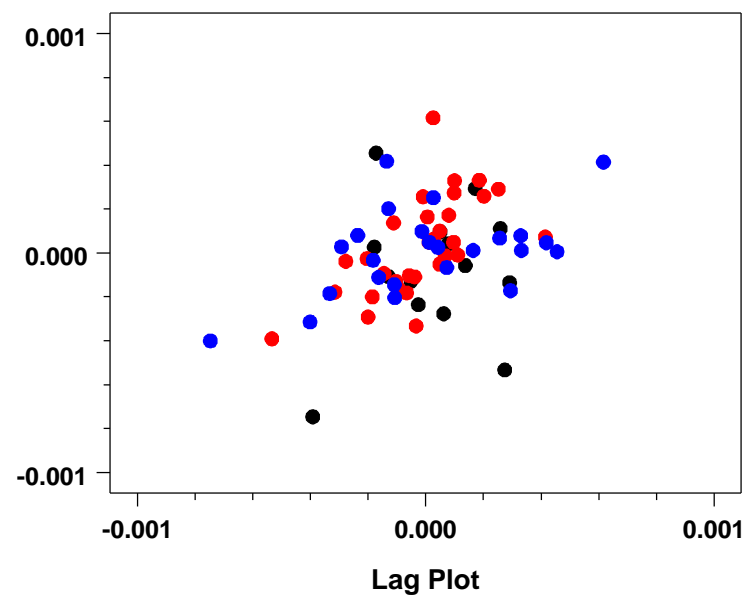
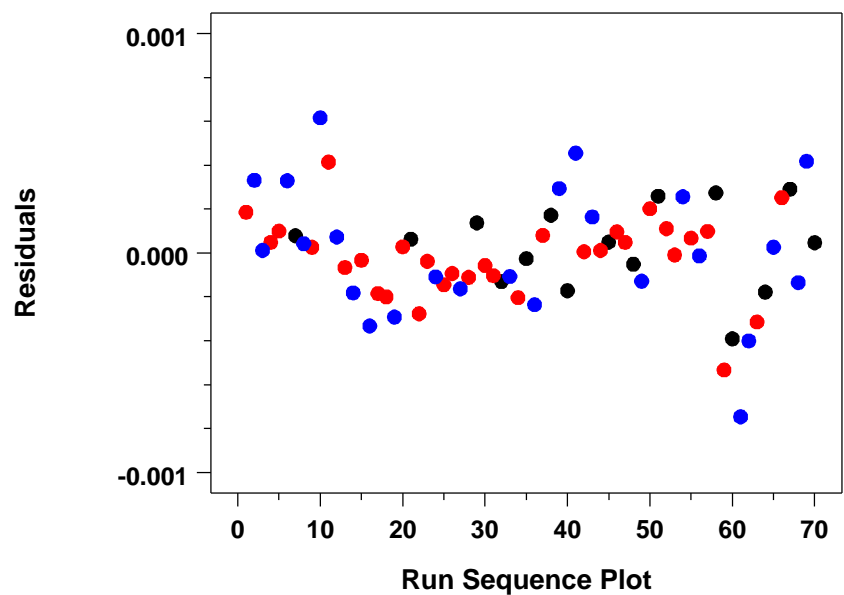


- - Temperature < 290
- - 290 < Temperature < 310
- - Temperature > 310

1450a Dataset Model 4: Nuisance Factors Versus Residuals



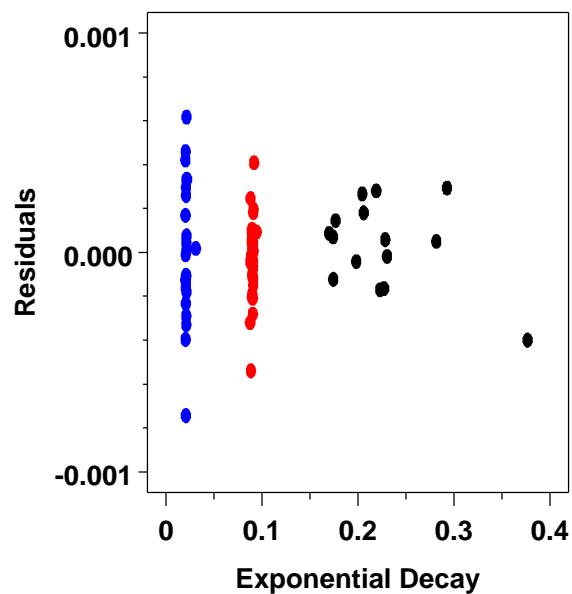
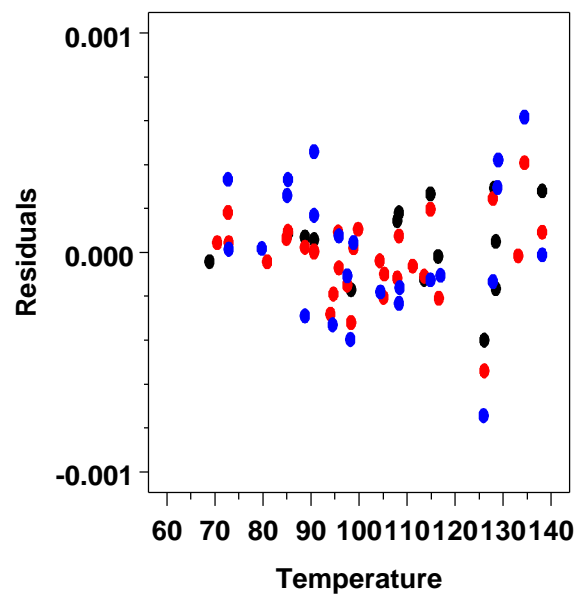
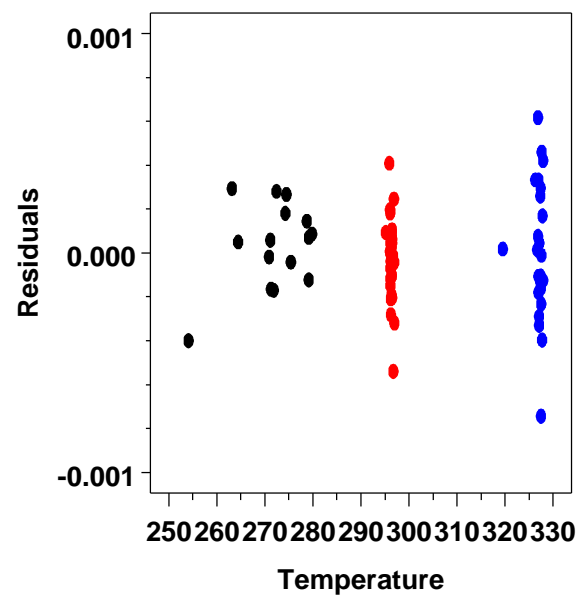
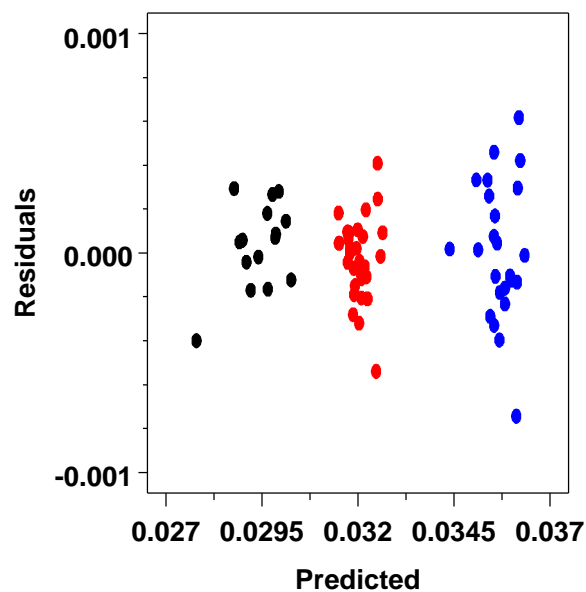
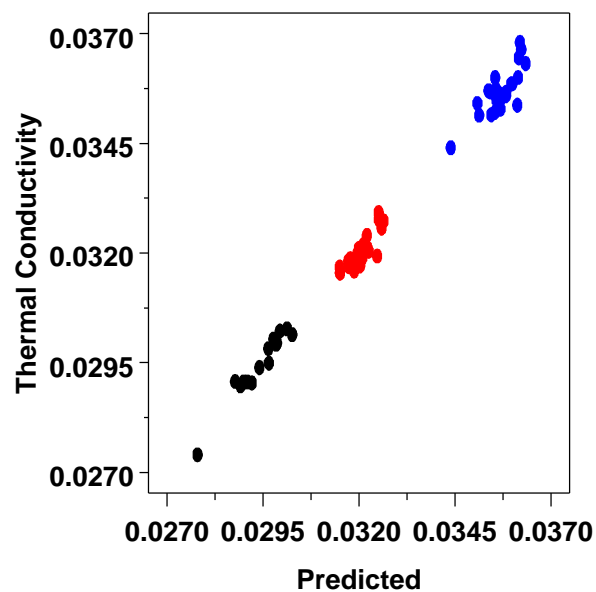
1450a Dataset Model 4: 4-Plot of the Residuals



PPCC = 0.9893

1450a Dataset Model 5:  $k = -0.006384794 + 0.0001231944 \cdot t + 0.0000168212 \cdot d + 0.0020071523 \cdot e1$

RESSD: 0.000240299, BIC: -1149.713787

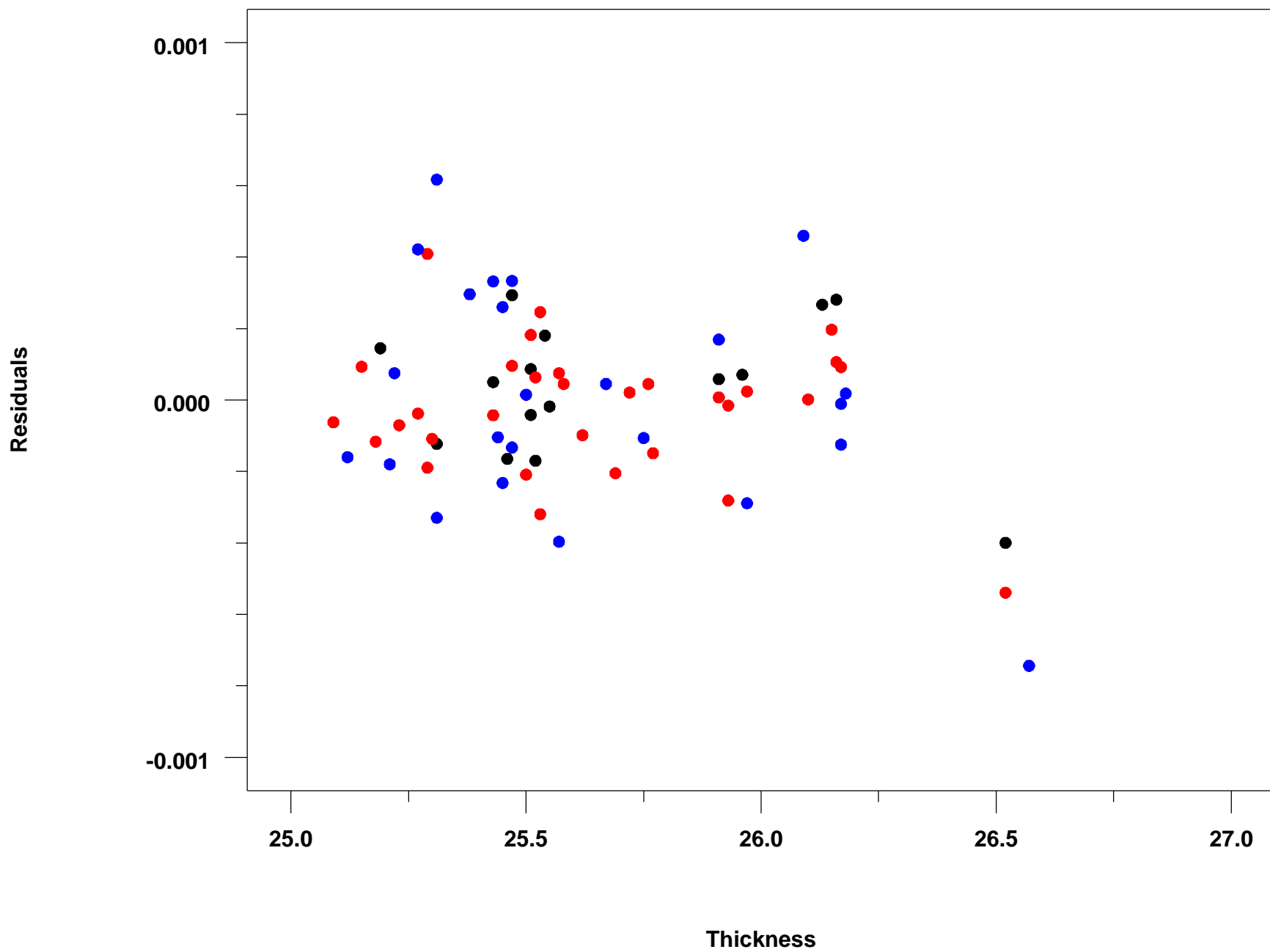


● - Temperature < 290,

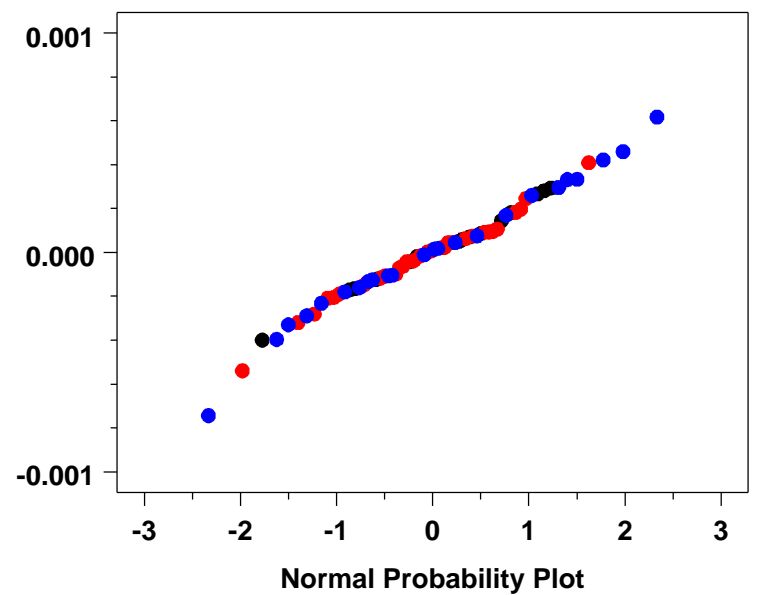
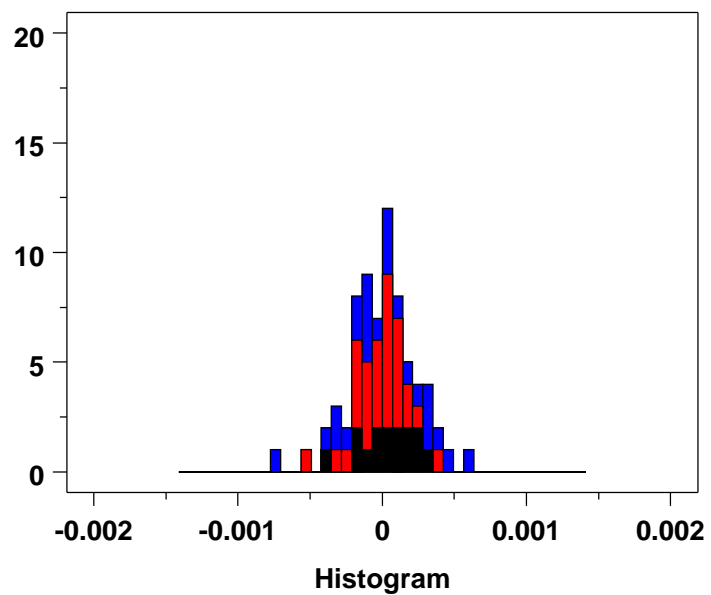
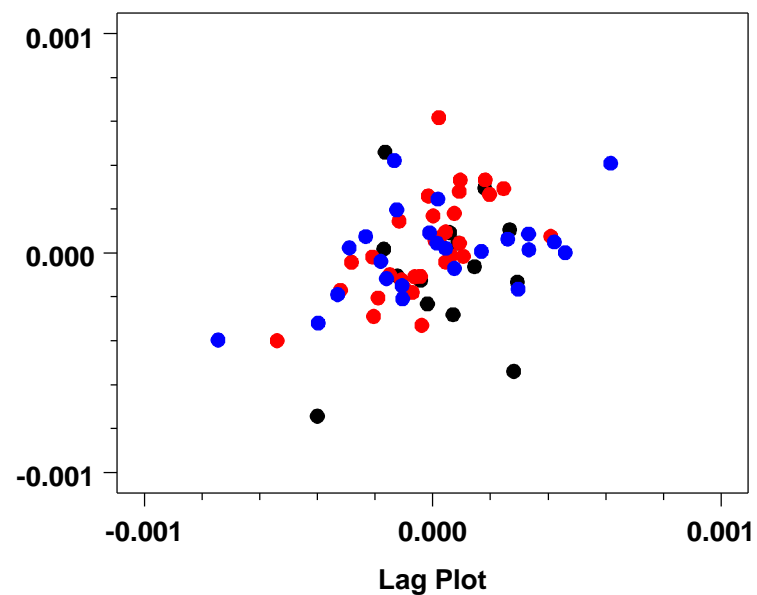
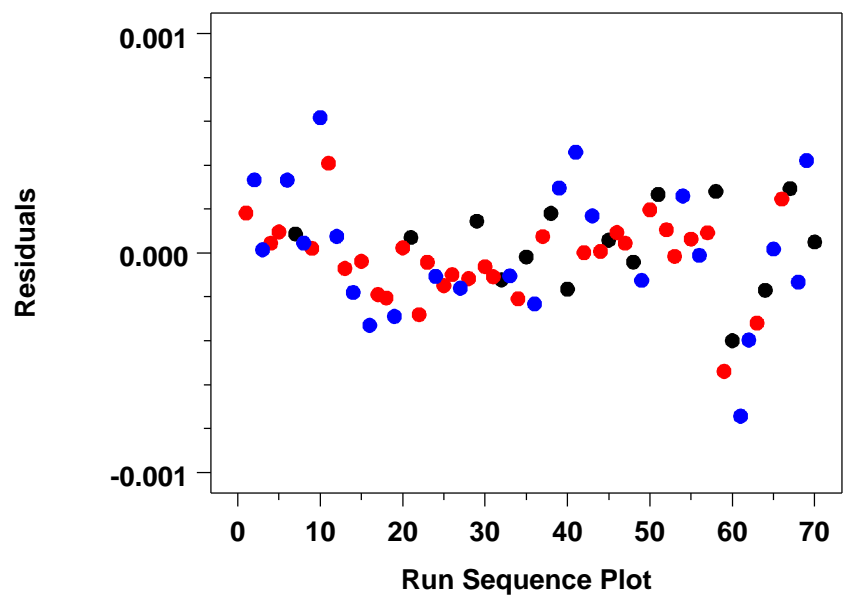
● - 290 < Temperature < 310,

● - Temperature > 310

1450a Dataset Model 5: Nuisance Factors Versus Residuals

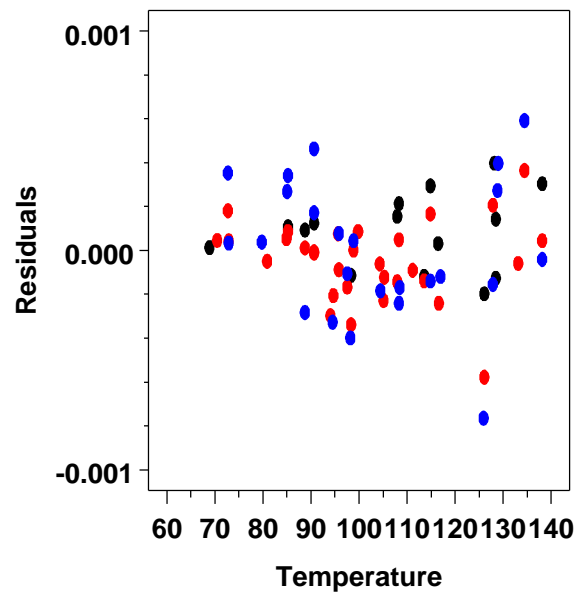
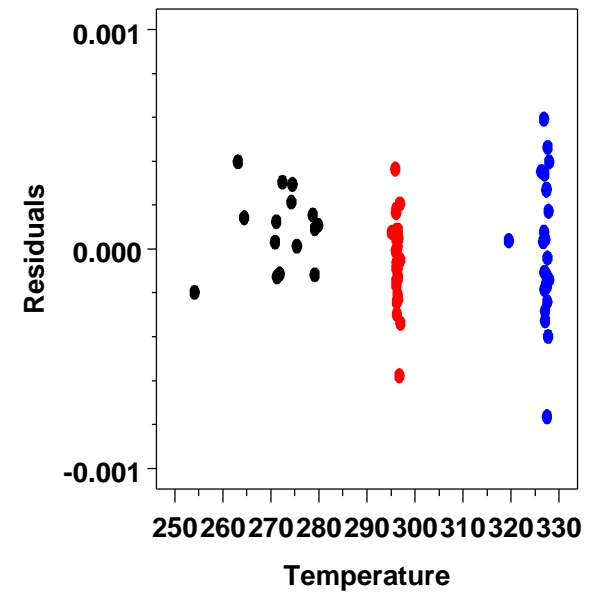
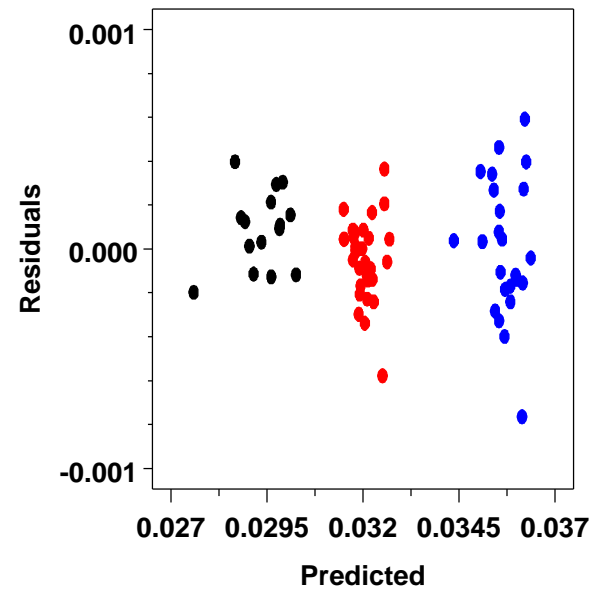
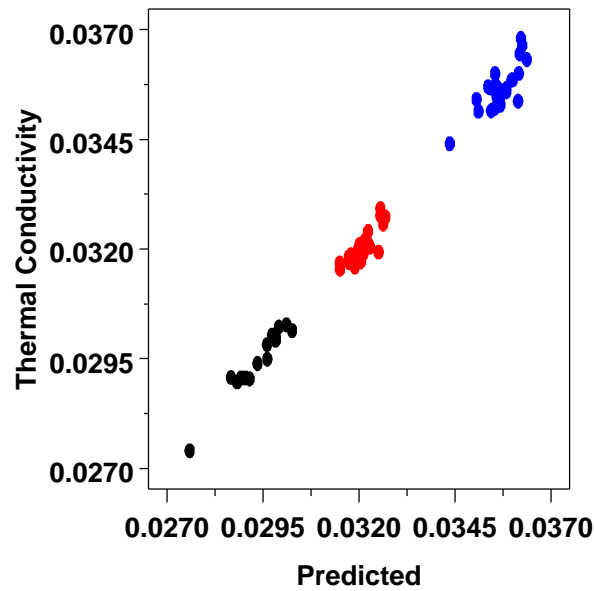


1450a Dataset Model 5: 4-Plot of the Residuals



PPCC = 0.9894

1450a Dataset Model 5a:  $k = -0.003893208 + 0.0001152137 \cdot t + 0.000017533 \cdot d + 0.009298144 \cdot \text{EXP}(-((t-426.74800115)/-46.39357626)**2)$  (RESSD: 0.0002464137, BIC: -1137.69884)

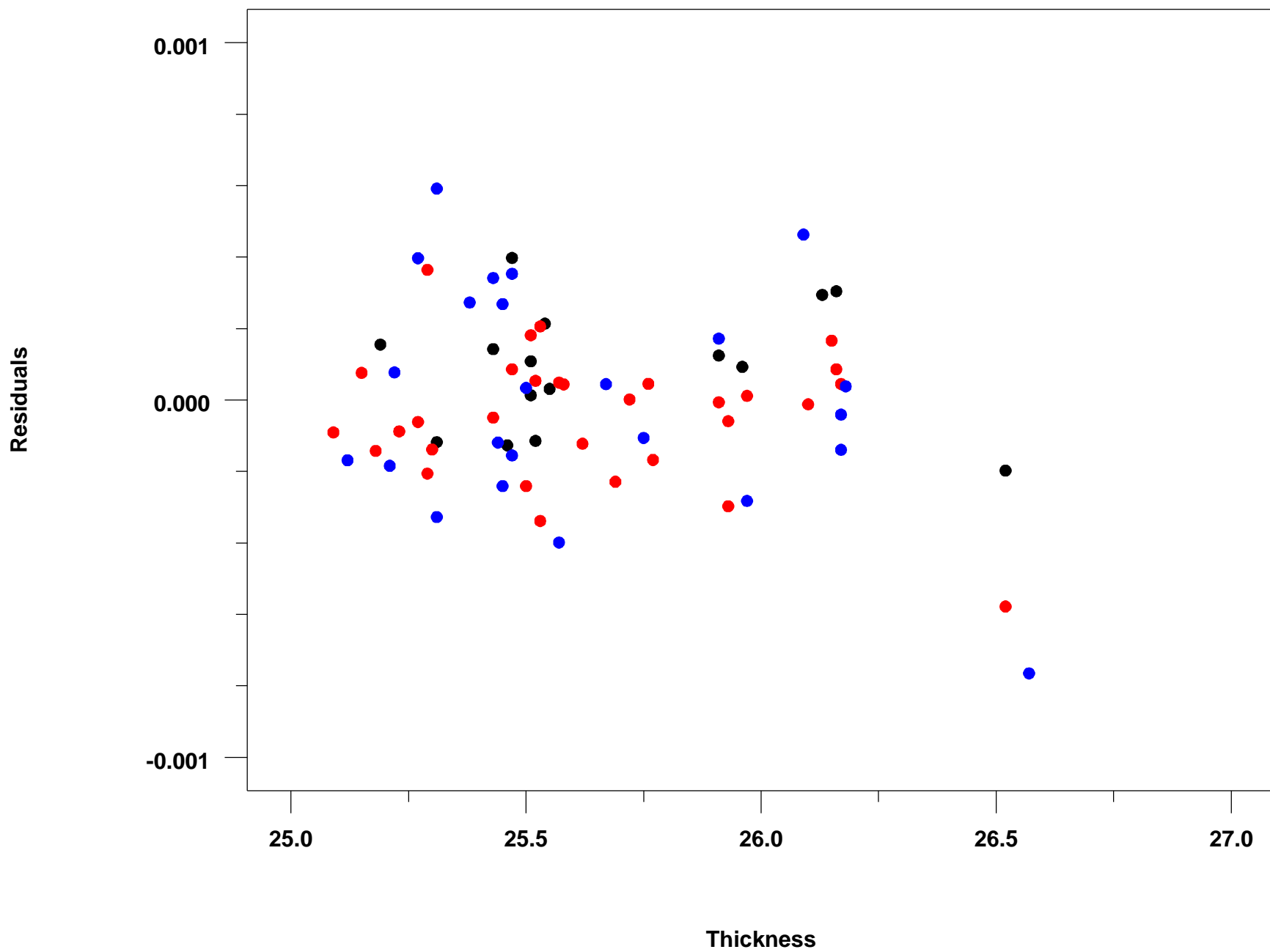


● - Temperature < 290,

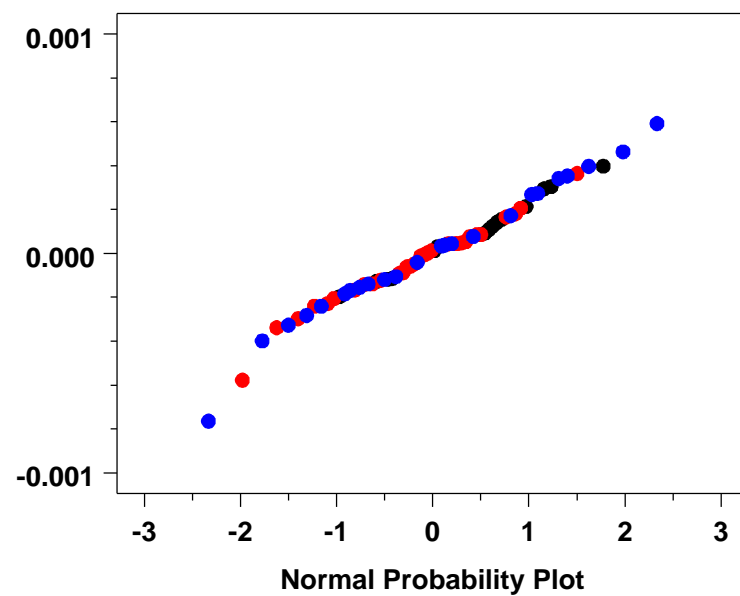
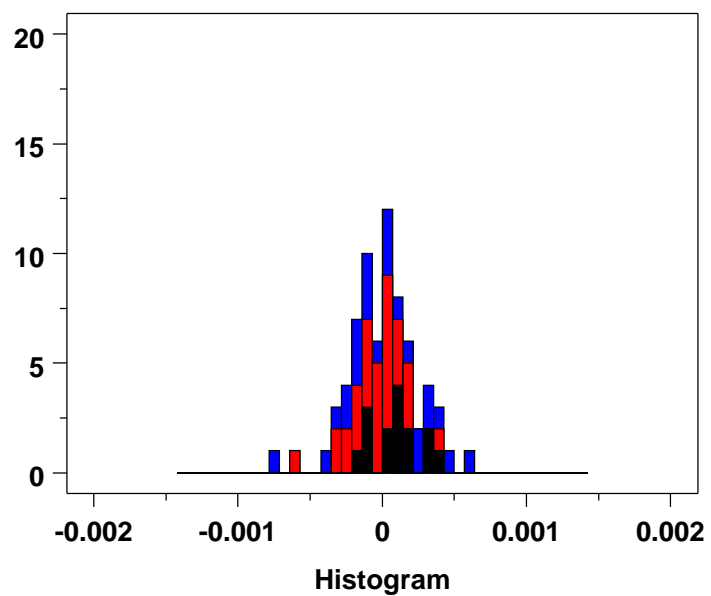
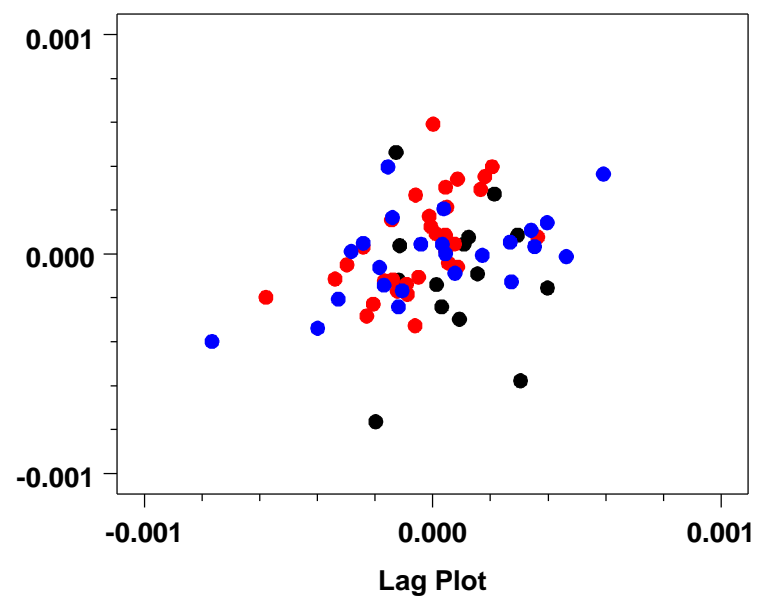
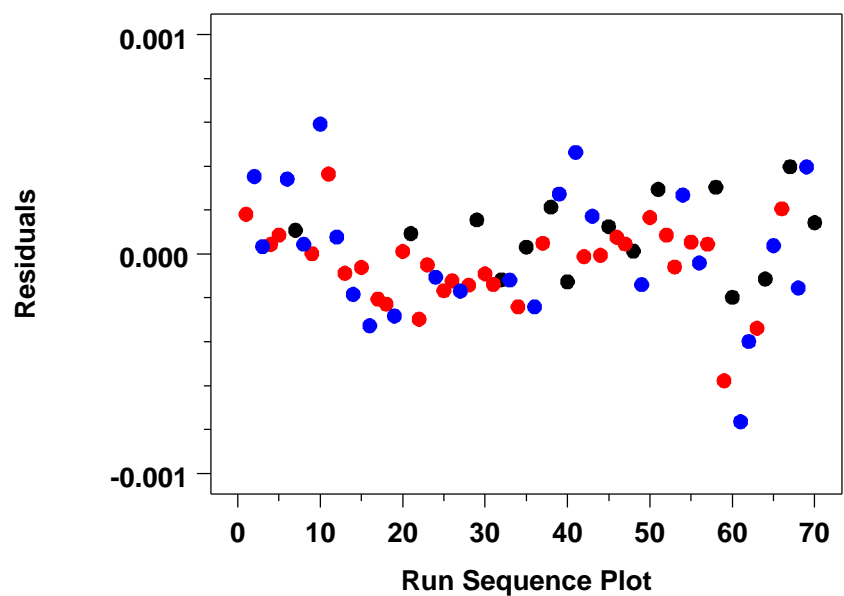
● - 290 < Temperature < 310,

● - Temperature > 310

1450a Dataset Model 5a: Nuisance Factors Versus Residuals



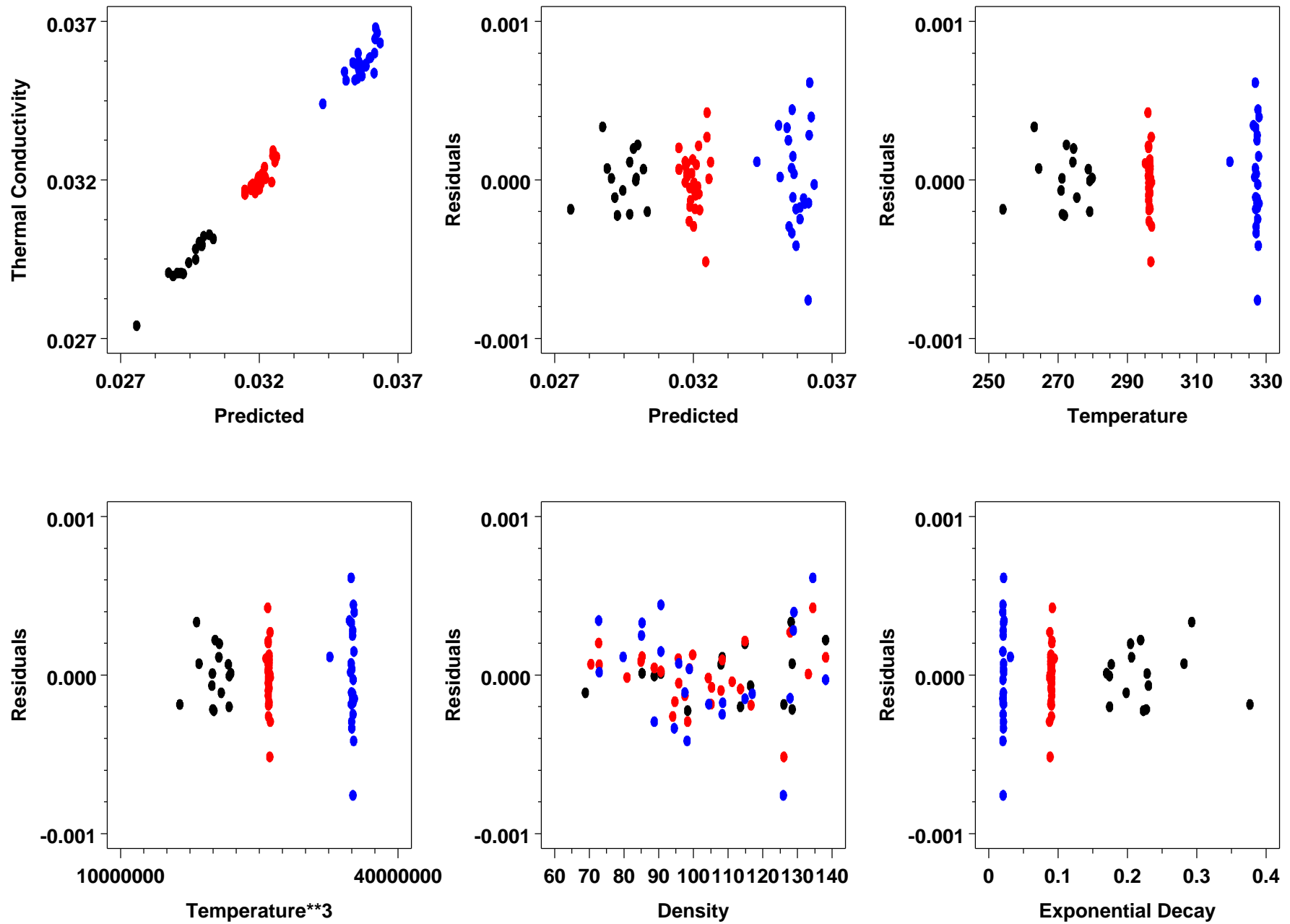
1450a Dataset Model 5a: 4-Plot of the Residuals



PPCC = 0.9883

1450a Dataset Model 6:  $k = 0.0327142857 + 0.0001143524 \cdot t + 0.000017515 \cdot d + 0 \cdot t^{**3} + -0.019584134 \cdot e1$

RESSD: 0.0002380823, BIC: -1146.76272

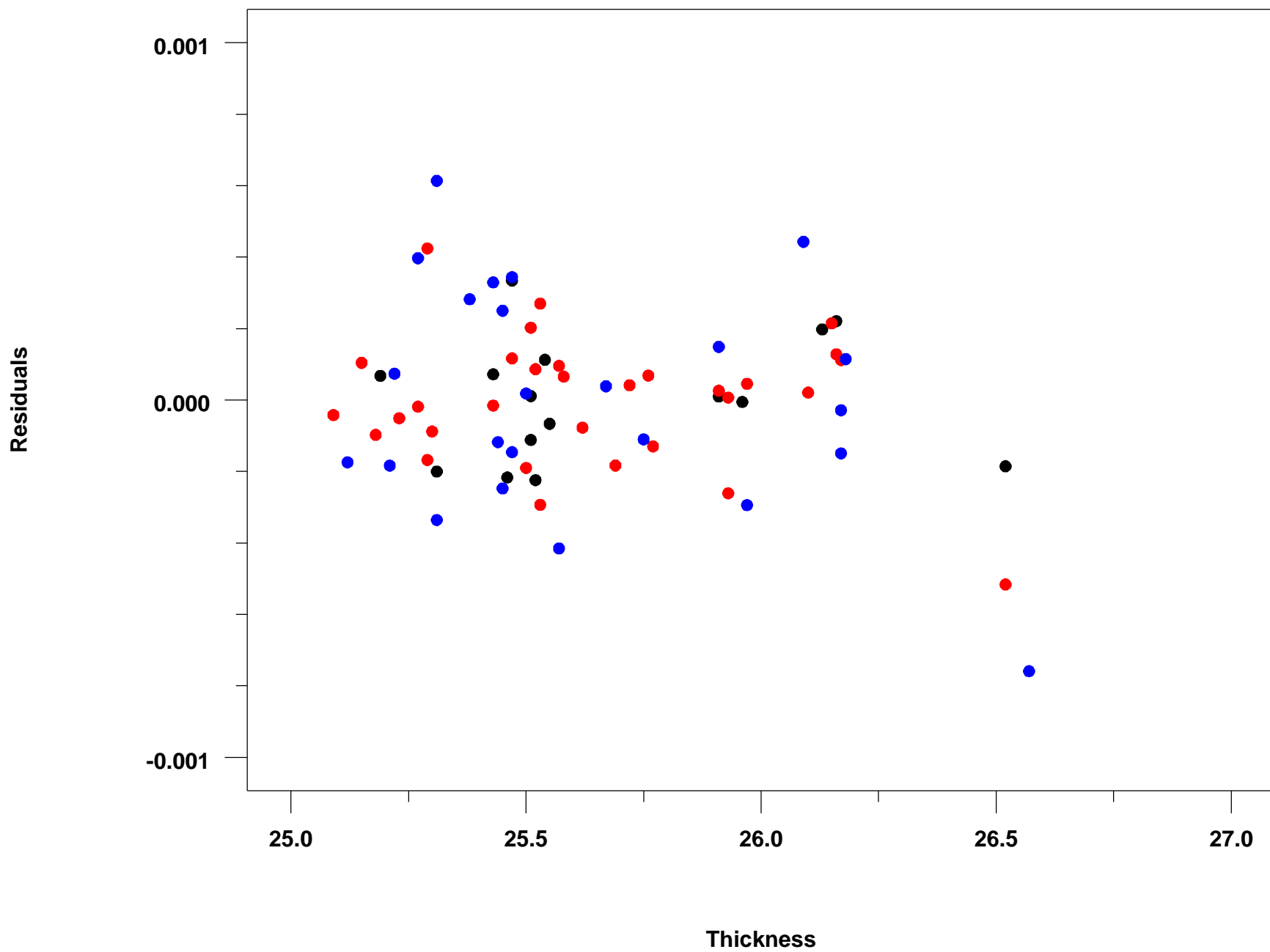


● - Temperature < 290,

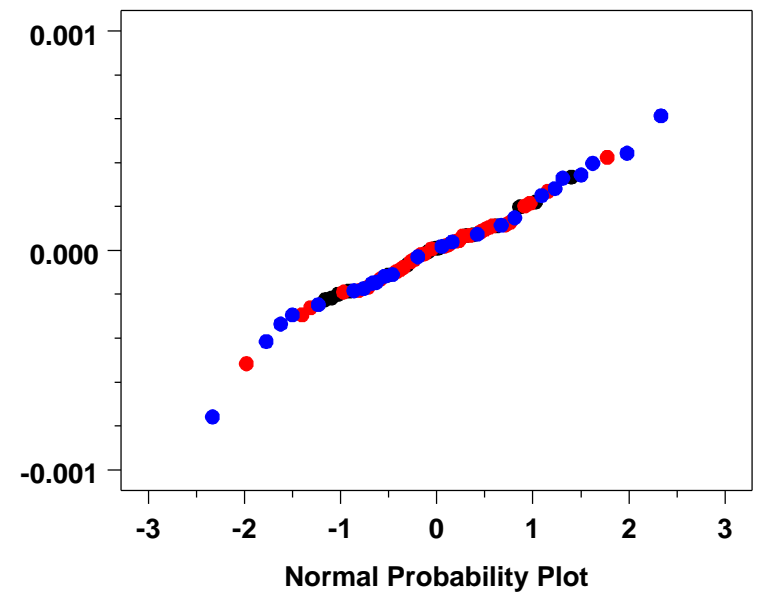
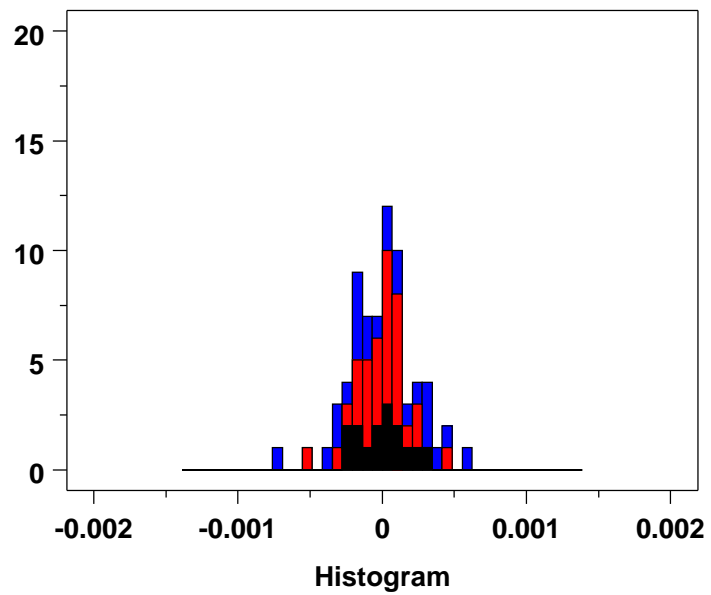
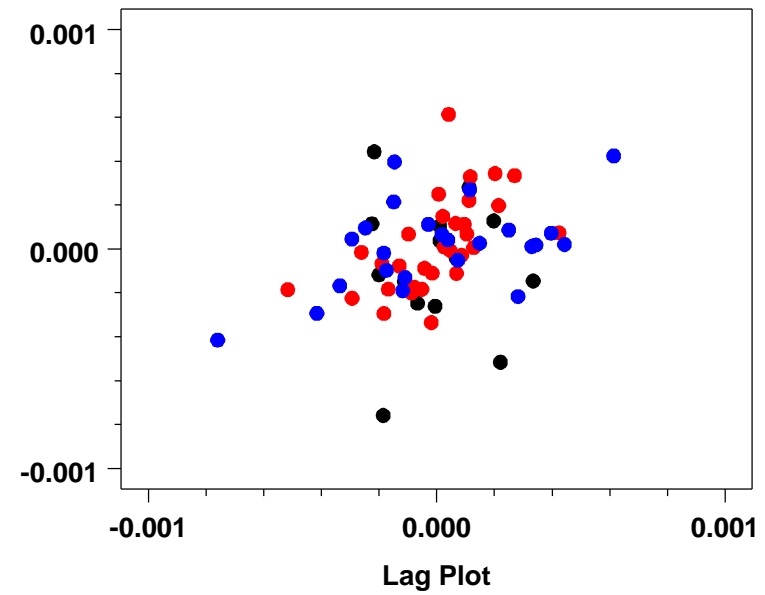
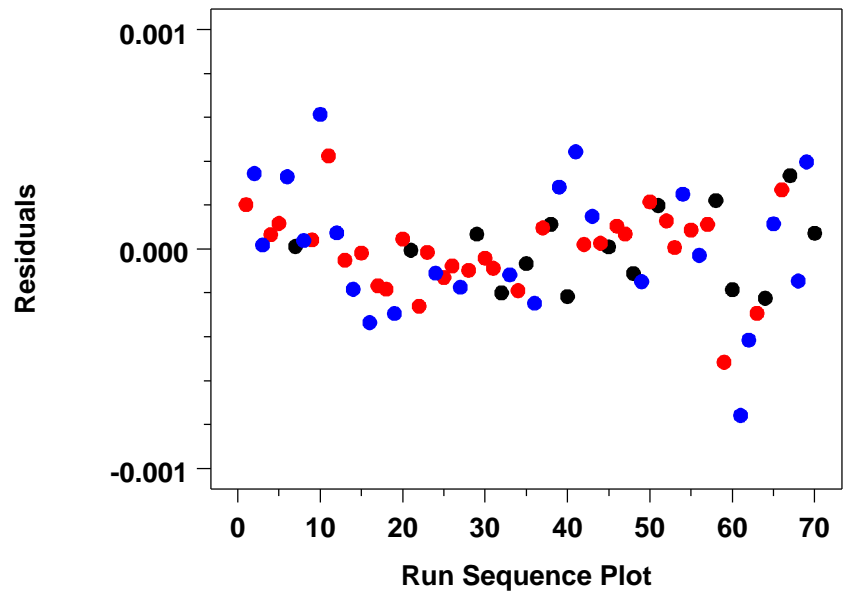
● -  $290 < \text{Temperature} < 310$ ,

● - Temperature > 310

1450a Dataset Model 6: Nuisance Factors Versus Residuals

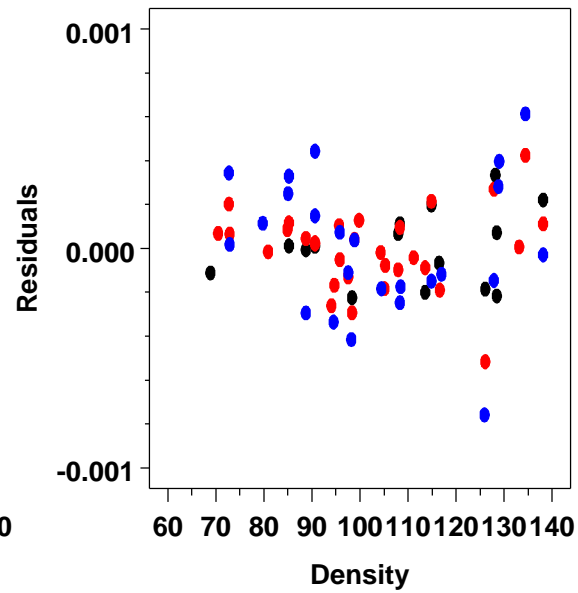
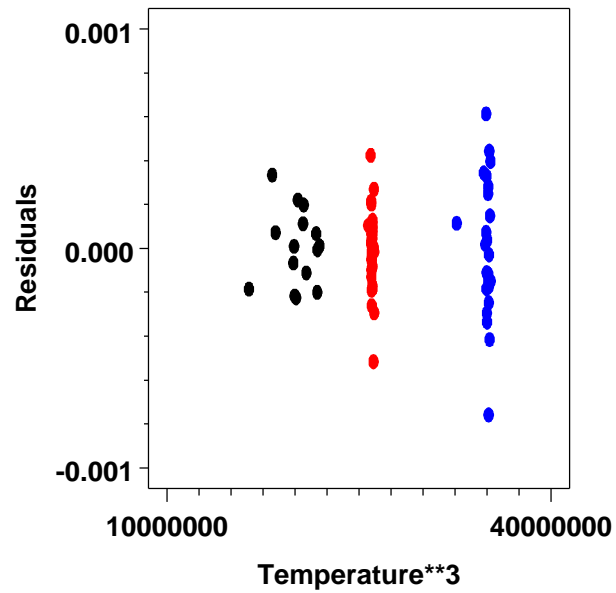
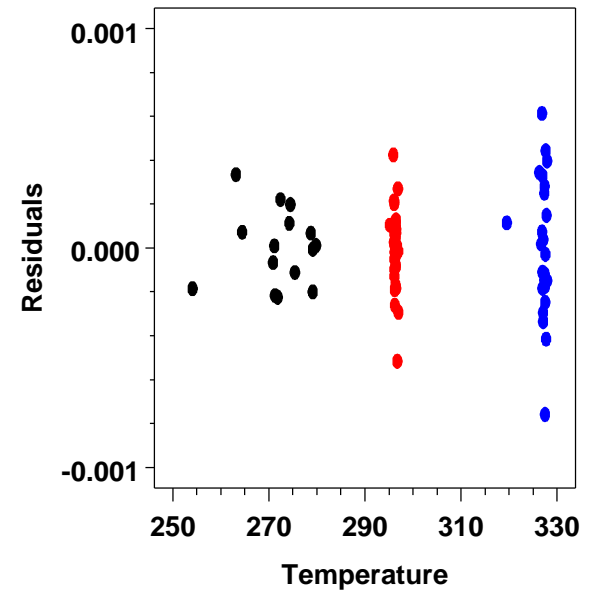
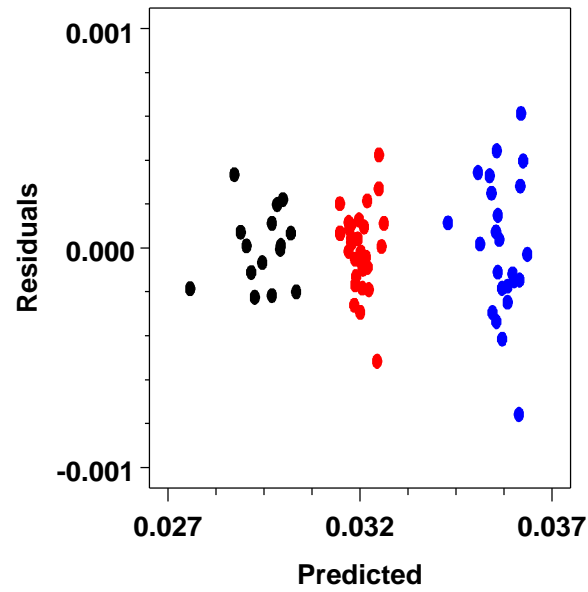
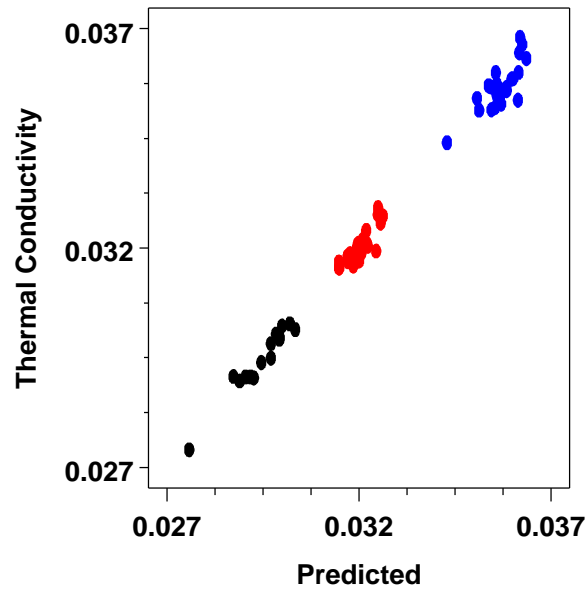


1450a Dataset Model 6: 4-Plot of the Residuals



PPCC = 0.9879

1450a Dataset Model 6a:  $k = 0.0032068058 + 0.0000776067 \cdot t + 0.0000168807 \cdot d + 0 \cdot t^{**3} + -3.526434531 \cdot \text{EXP}(-((t-2092.20323)/-266.2812162)^{**2})$  (RESSD: 0.0002380823, BIC: -1138.26573)

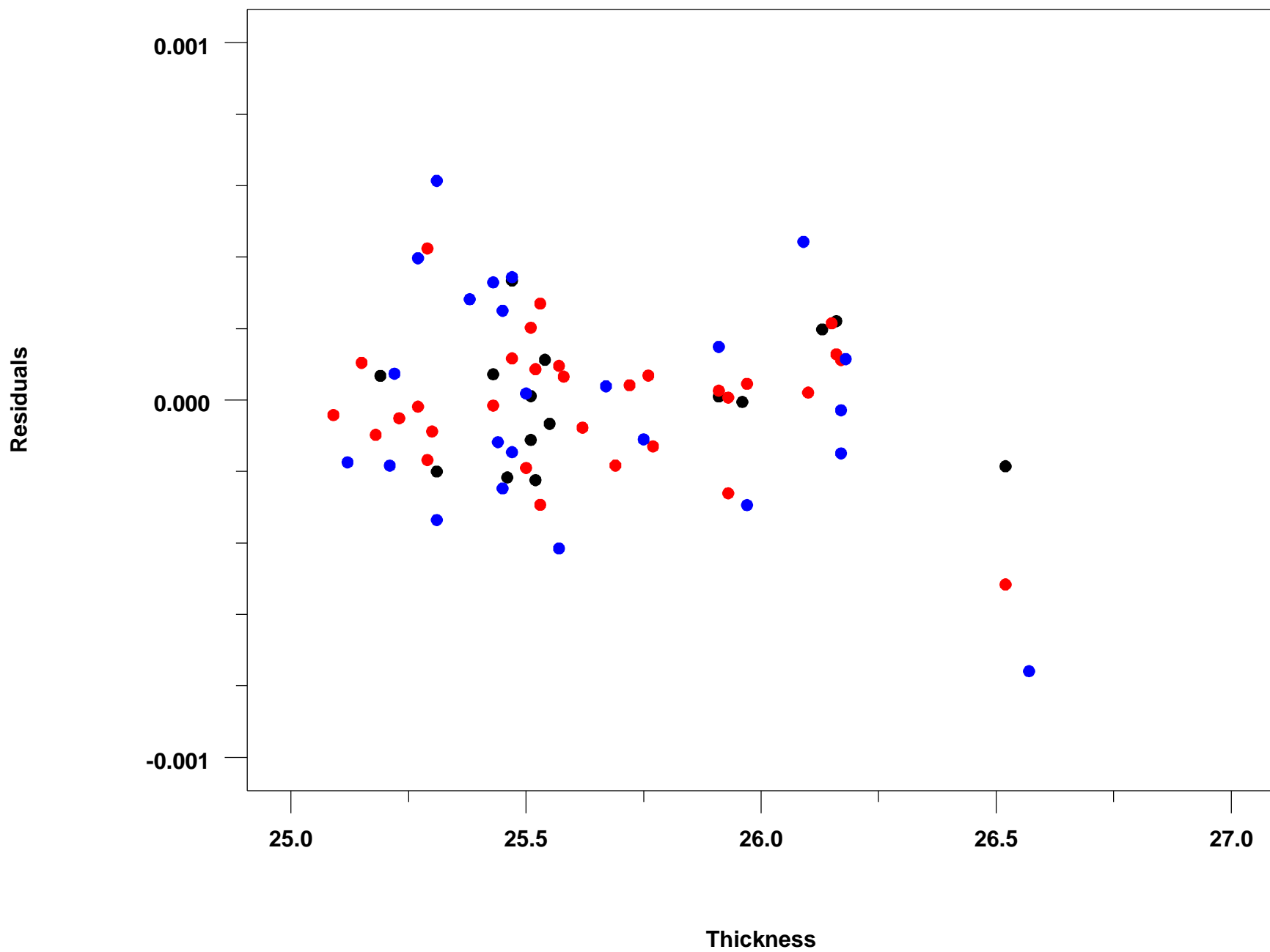


● - Temperature < 290,

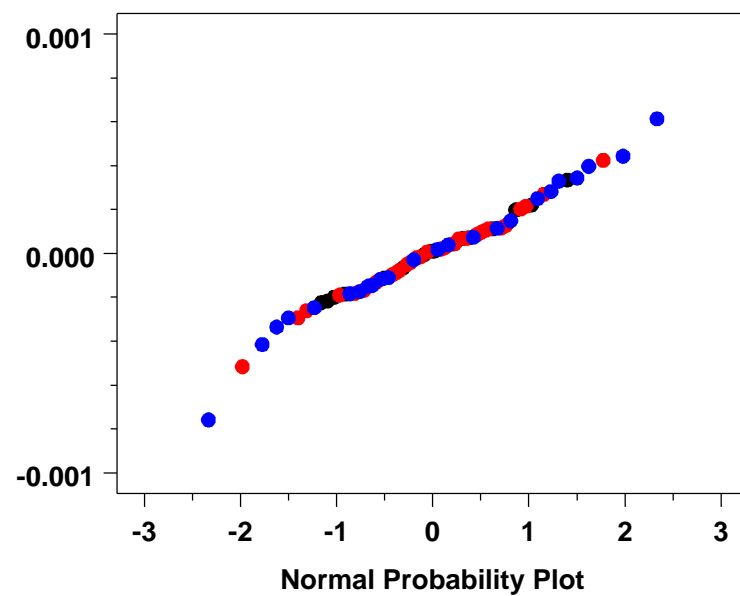
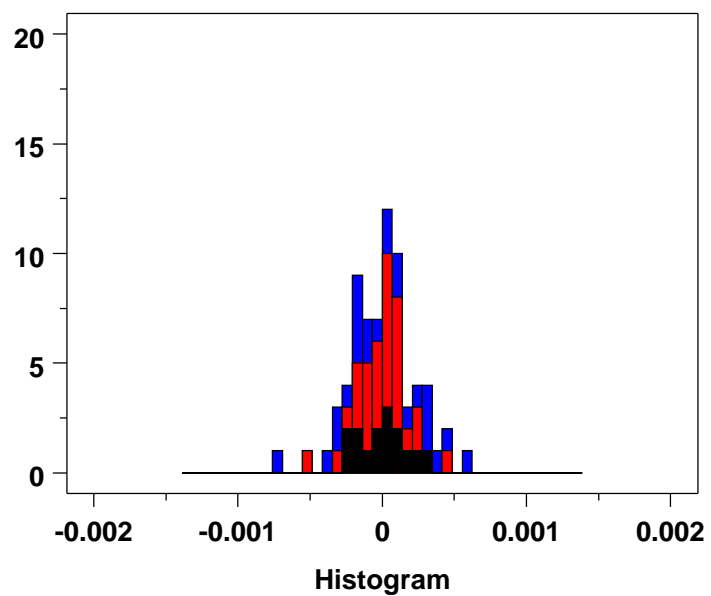
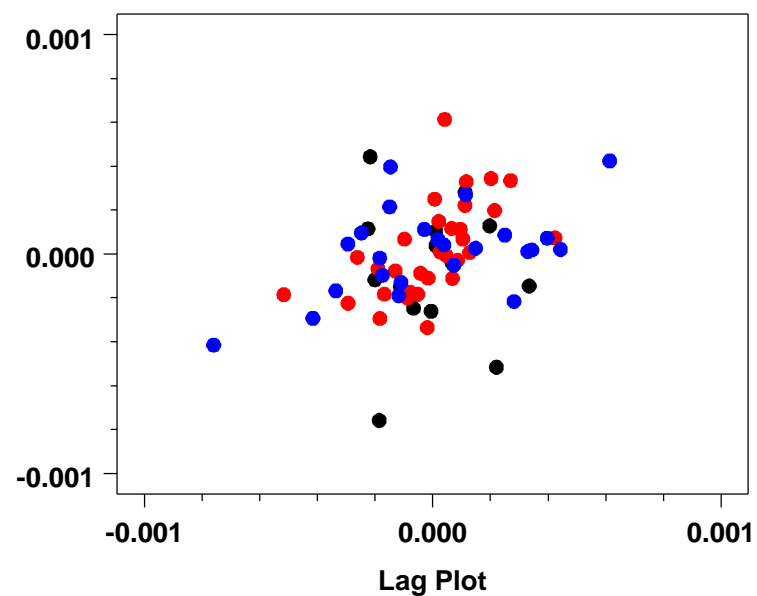
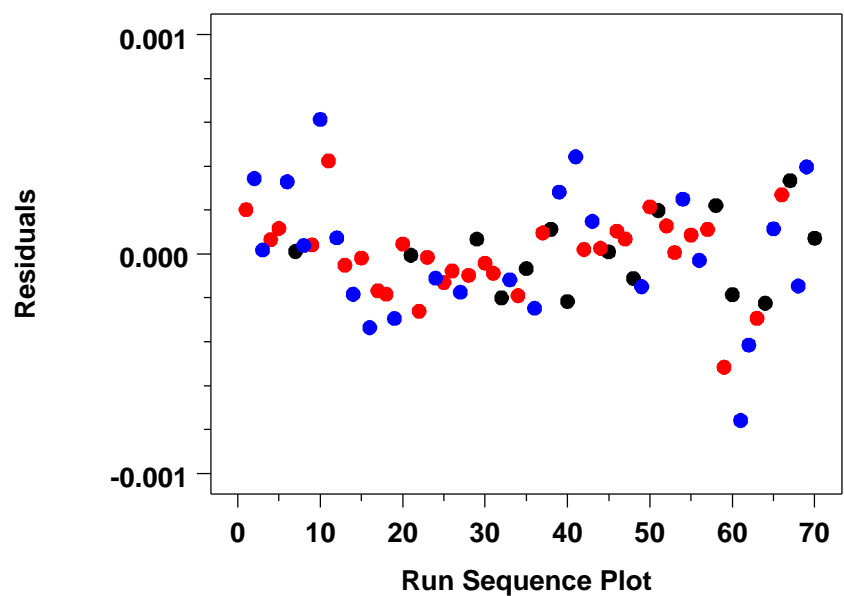
● - 290 < Temperature < 310,

● - Temperature > 310

1450a Dataset Model 6b: Nuisance Factors Versus Residuals

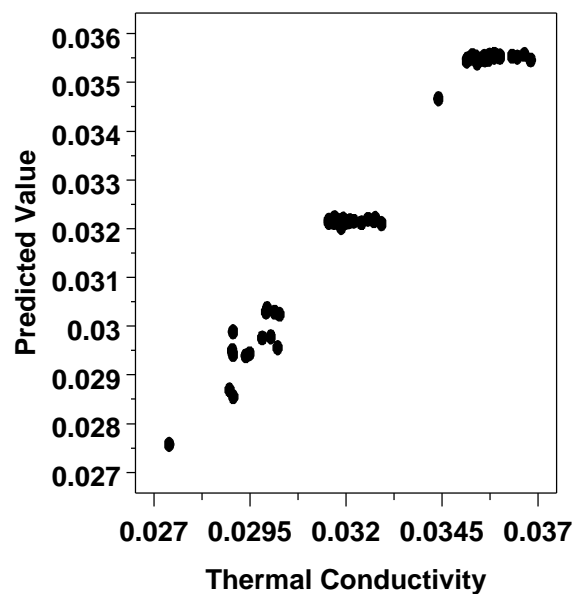


1450a Dataset Model 6a: 4-Plot of the Residuals

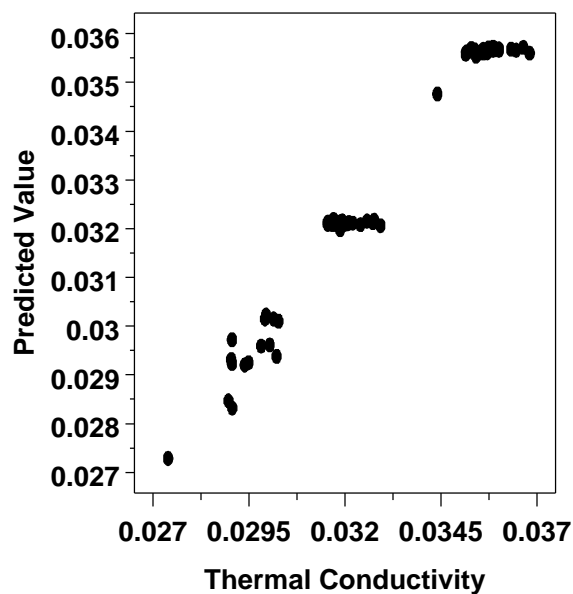


PPCC = 0.9879

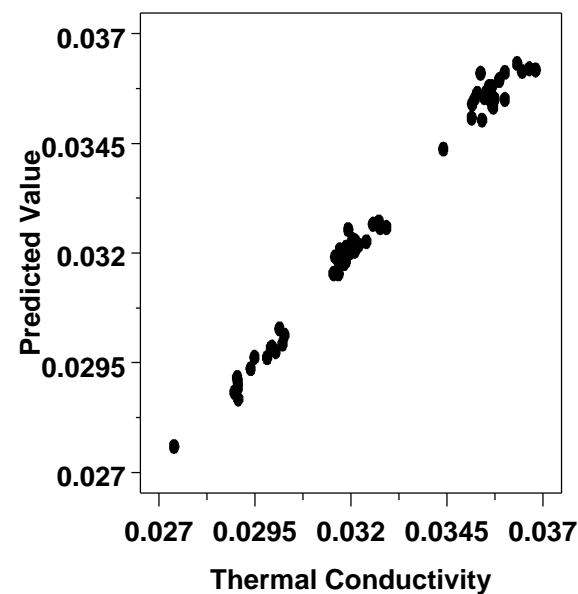
Model:  $k = a_0 + a_1 \cdot t$



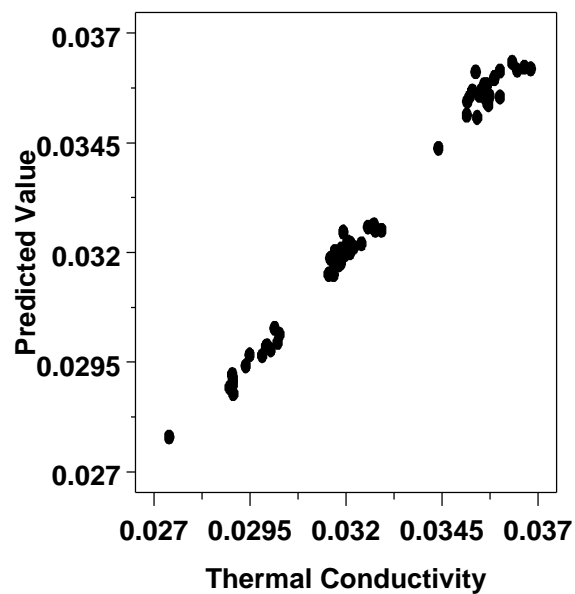
Model:  $k = a_1 \cdot t$



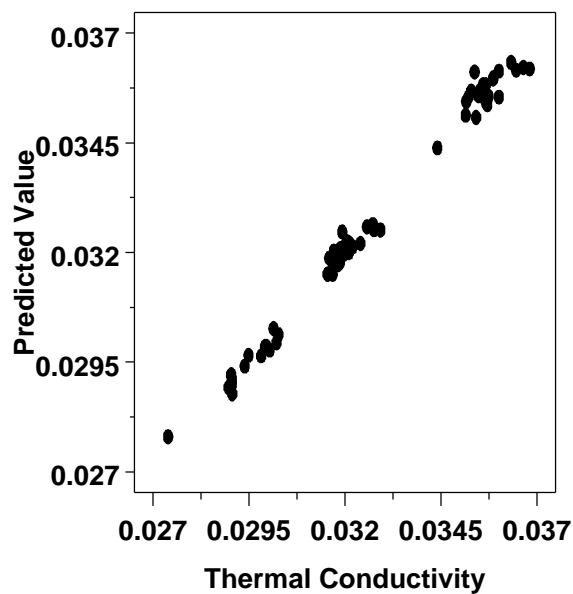
Model:  $k = a_0 + a_1 \cdot t + a_2 \cdot d$



Model:  $k = a_0 + a_1 \cdot t + a_2 \cdot d + a_3 \cdot t^{**3}$



Model:  $k = a_0 + a_1 \cdot t + a_2 \cdot d + a_3 \cdot e_1$



Model:  $k = a_0 + a_1 \cdot t + a_2 \cdot d + a_3 \cdot t^{**3} + a_4 \cdot e_1$

