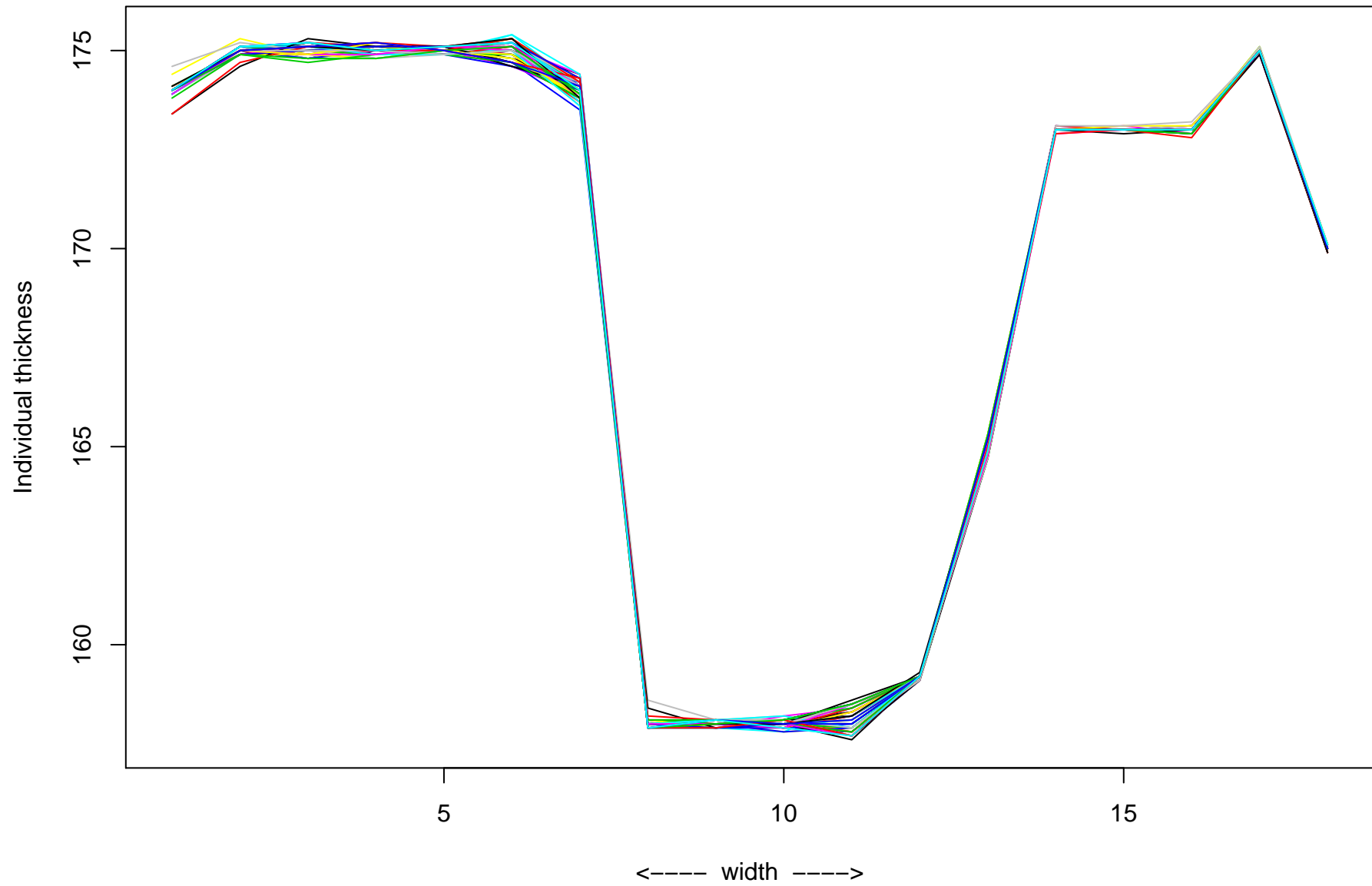
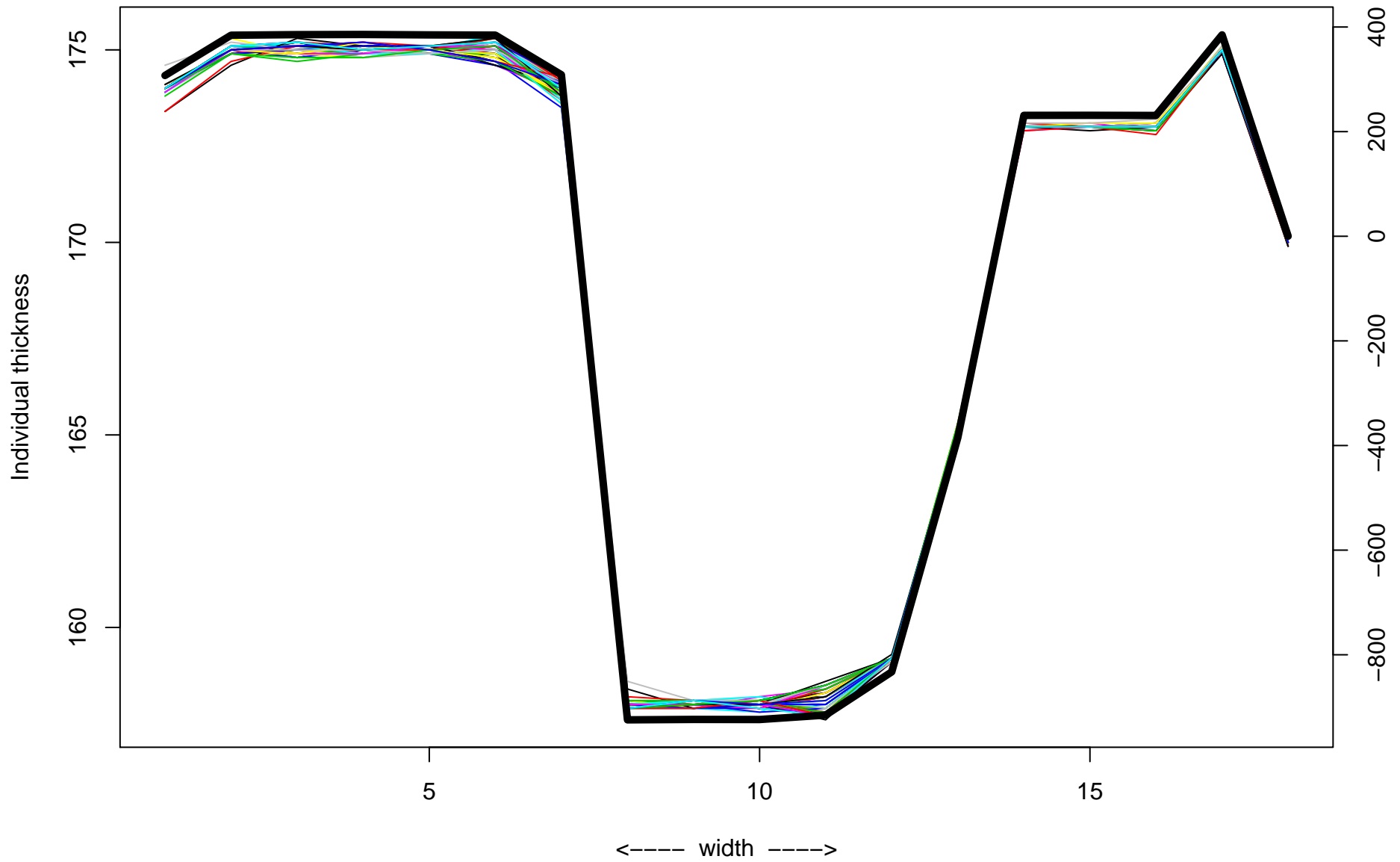


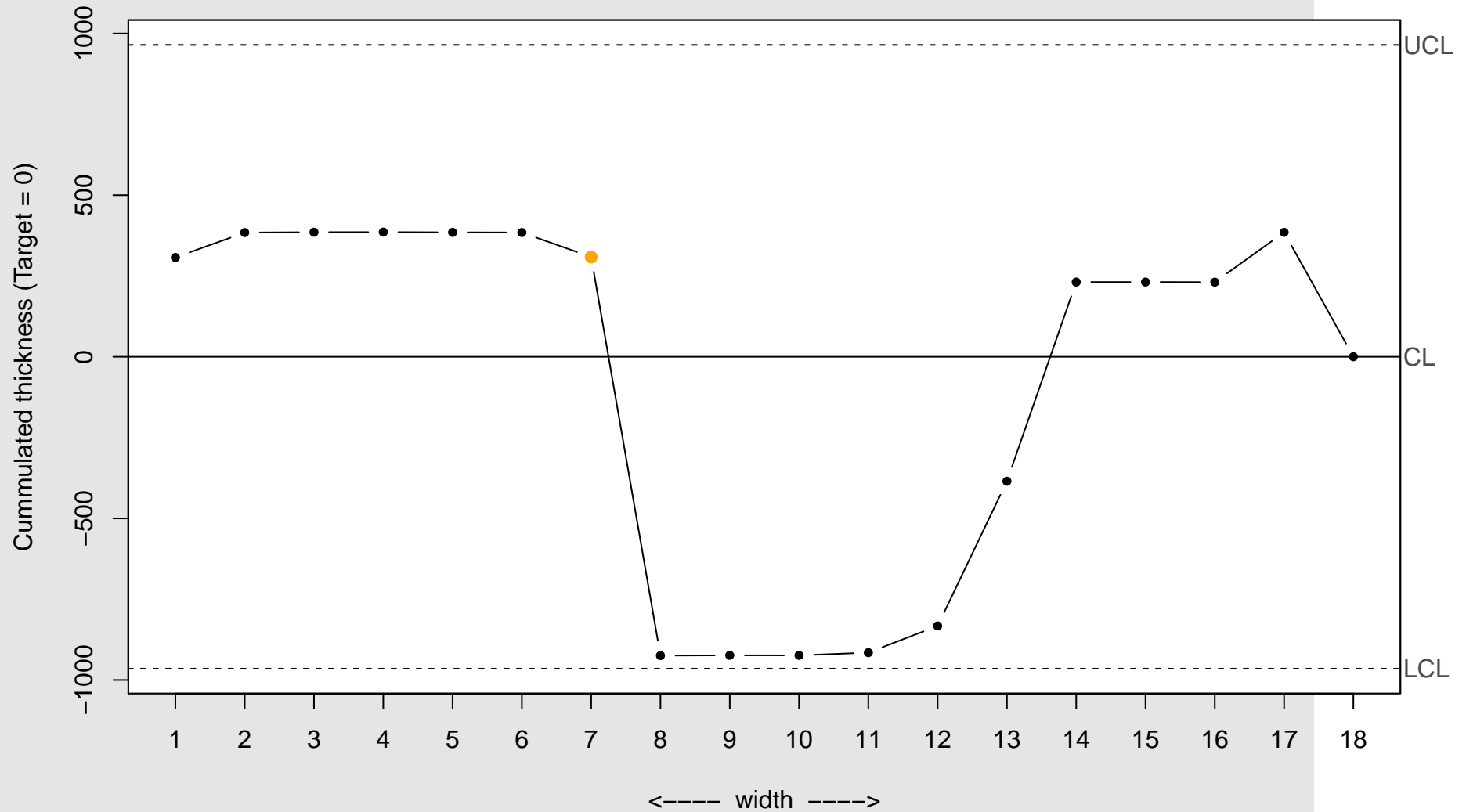
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 18

Center = 0

StdDev = 160.8104

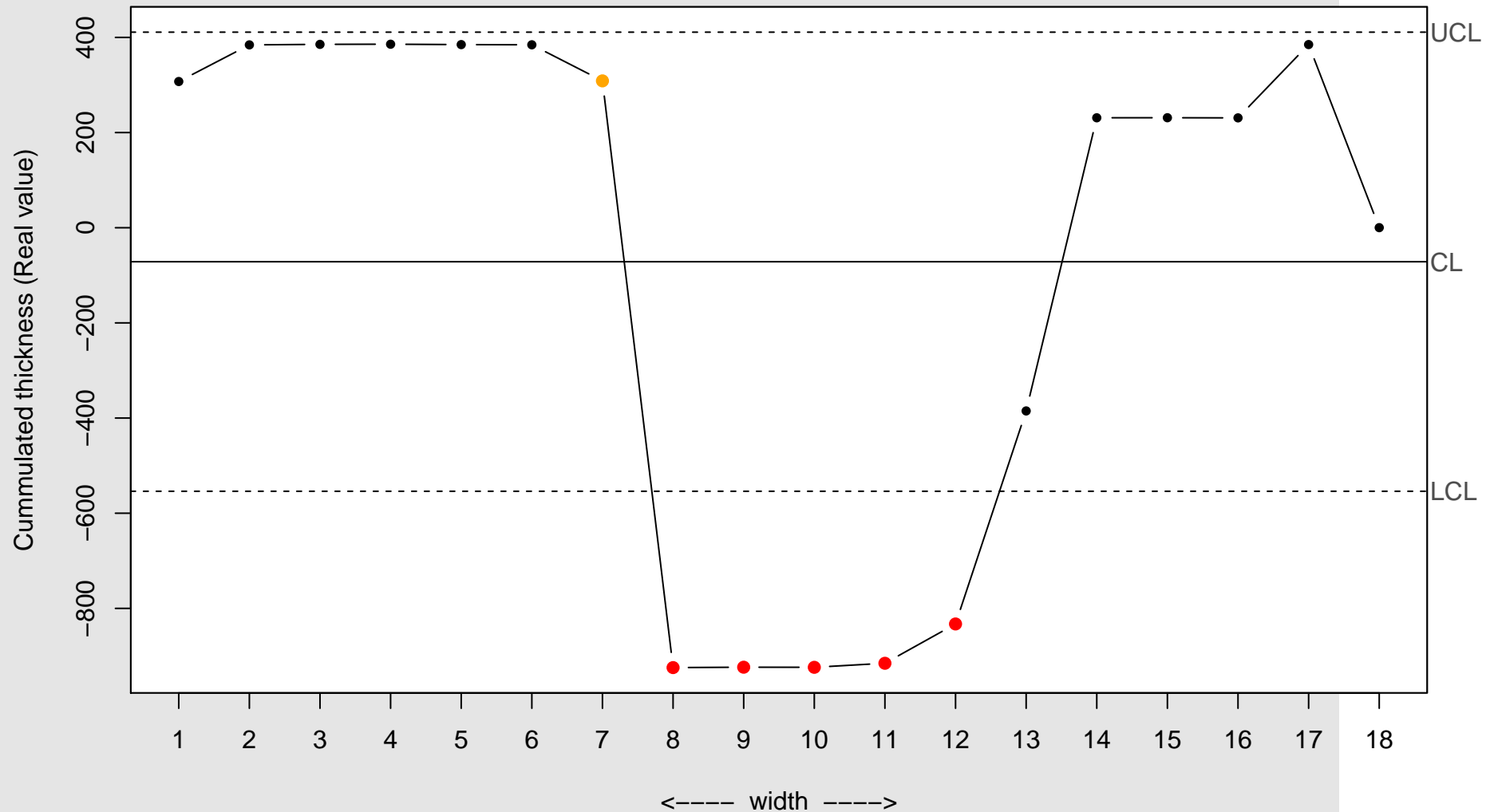
LCL = -964.8623

UCL = 964.8623

Number beyond limits = 0

Number violating runs = 1

Simulated thickness: Cpk is -0.02275 and z is -1.568 .

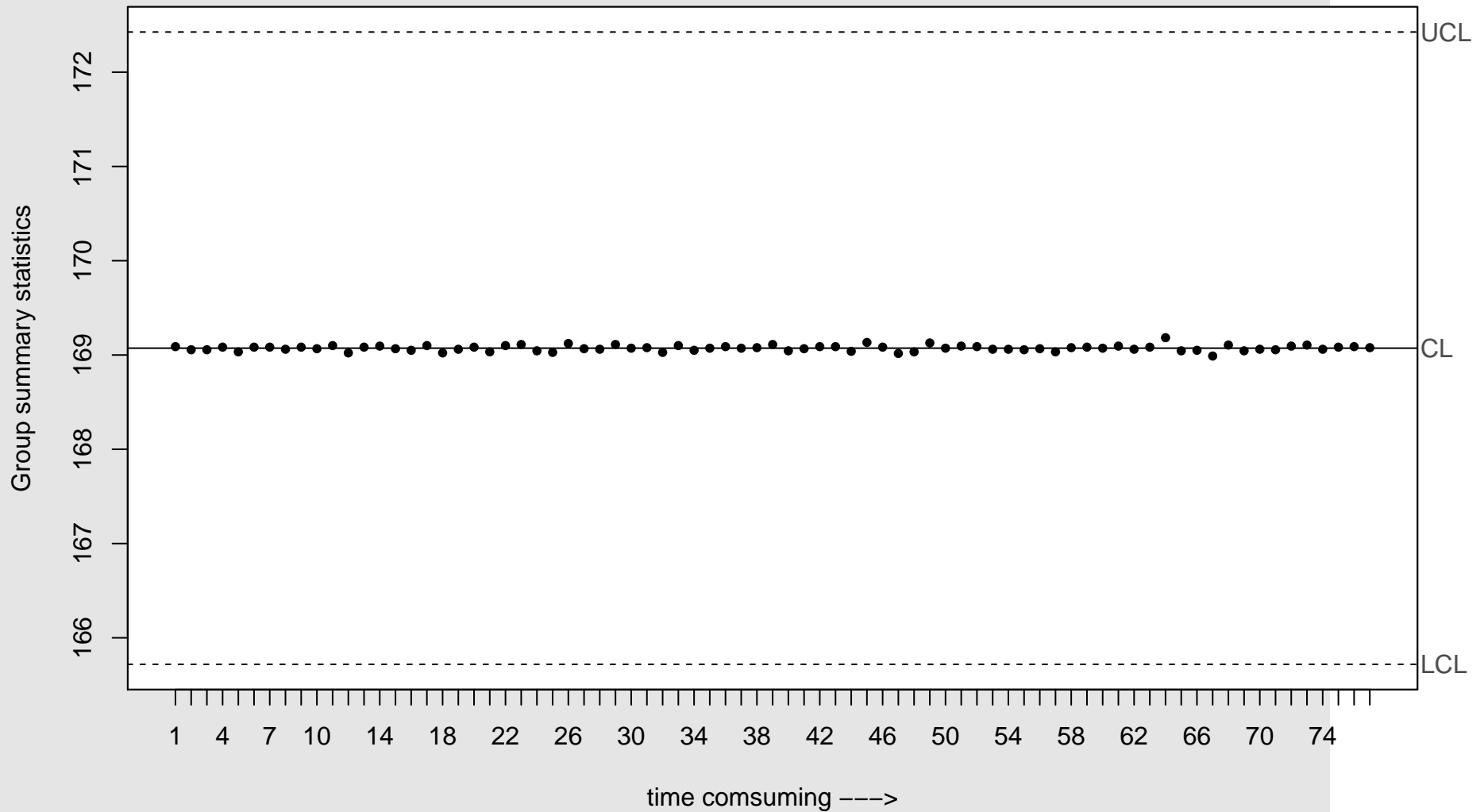


Number of groups = 18
Center = -71.42222
StdDev = 160.8104

LCL = -553.8534
UCL = 411.0089

Number beyond limits = 5
Number violating runs = 1

X-bar chart for a given dataset



Number of groups = 77

Center = 169.0724

StdDev = 4.742757

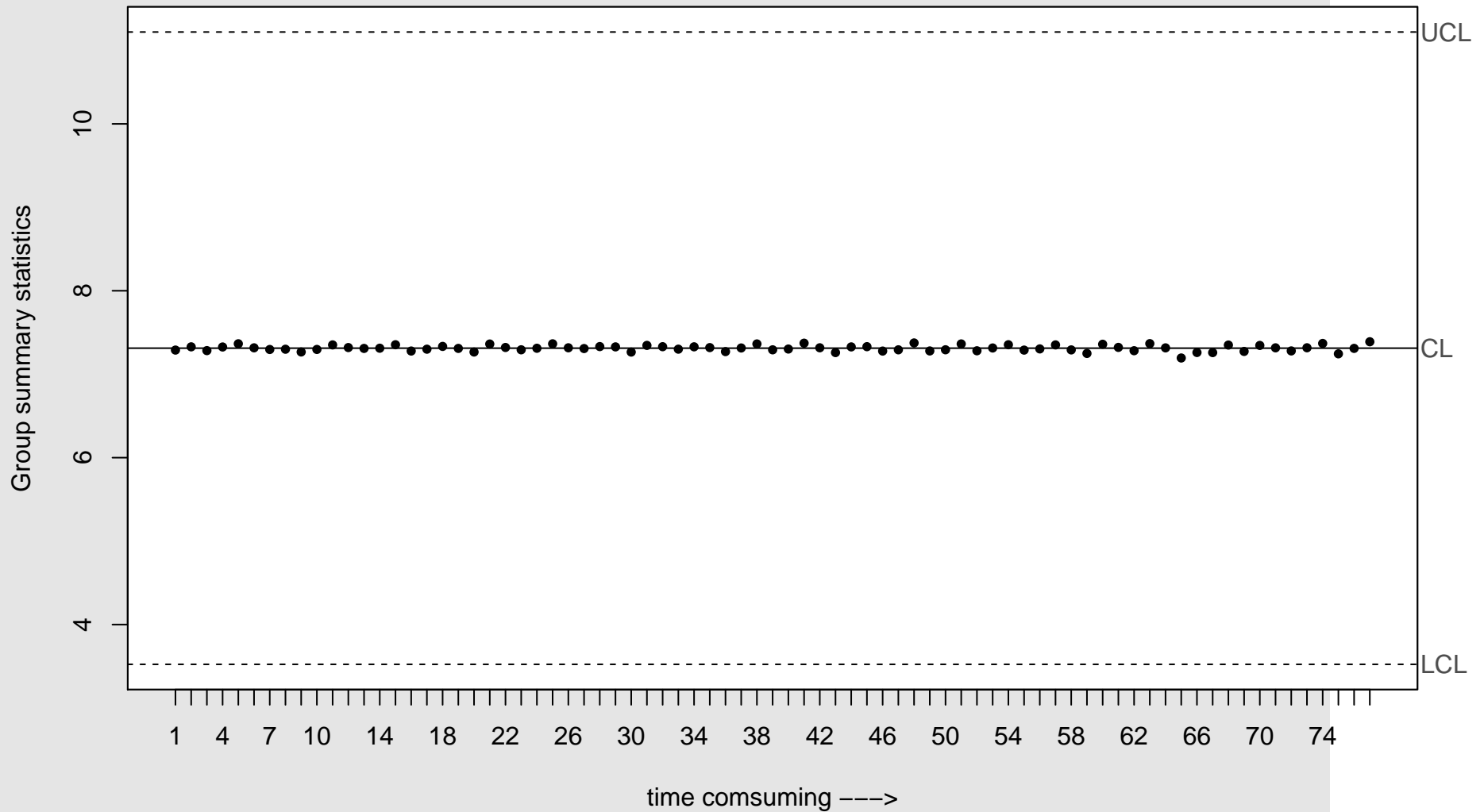
LCL = 165.7188

UCL = 172.4261

Number beyond limits = 0

Number violating runs = 0

S chart for a given dataset

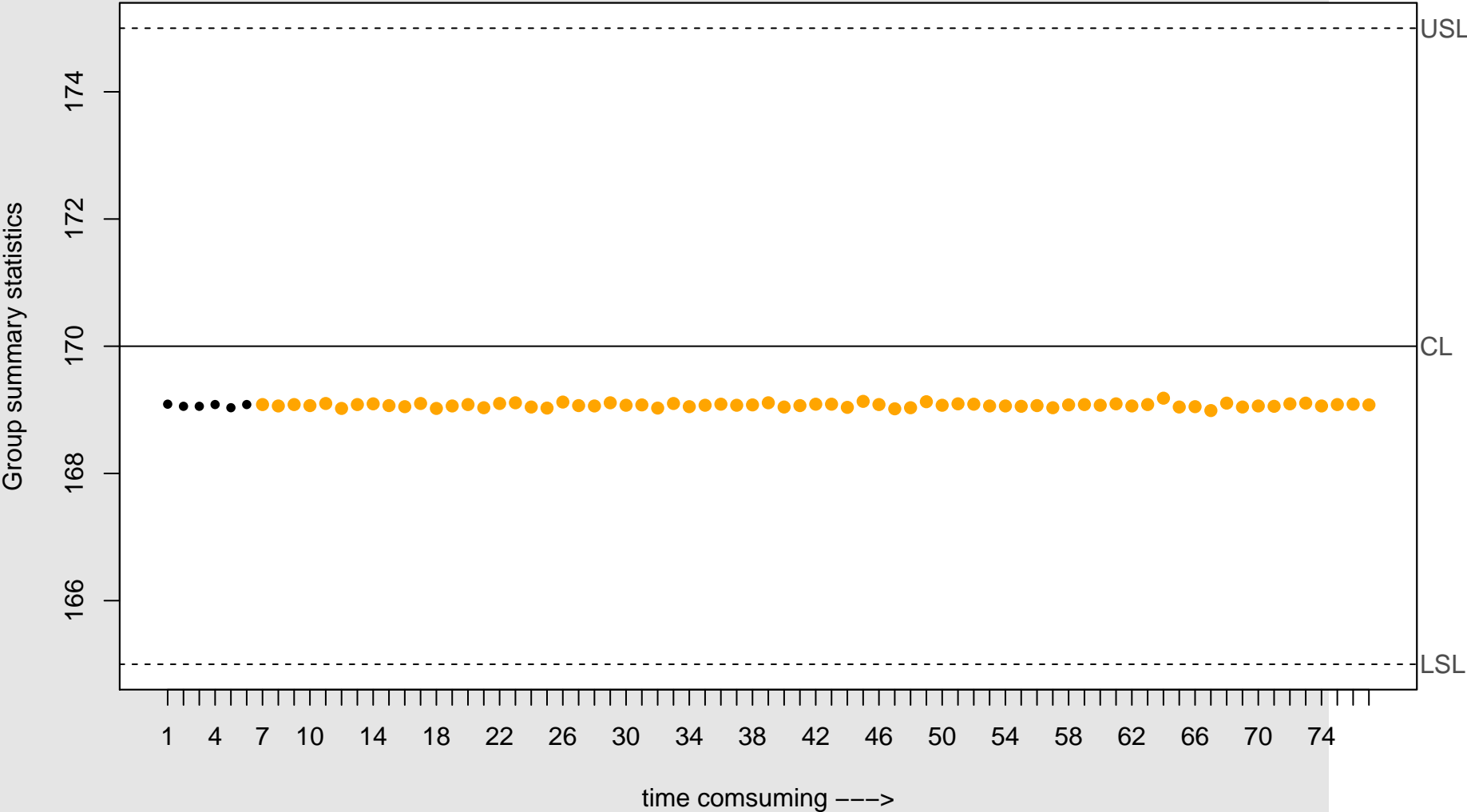


Number of groups = 77
Center = 7.312075
StdDev = 7.420338

LCL = 3.523316
UCL = 11.10083

Number beyond limits = 0
Number violating runs = 0

X-bar chart using USL/LSL for a given dataset

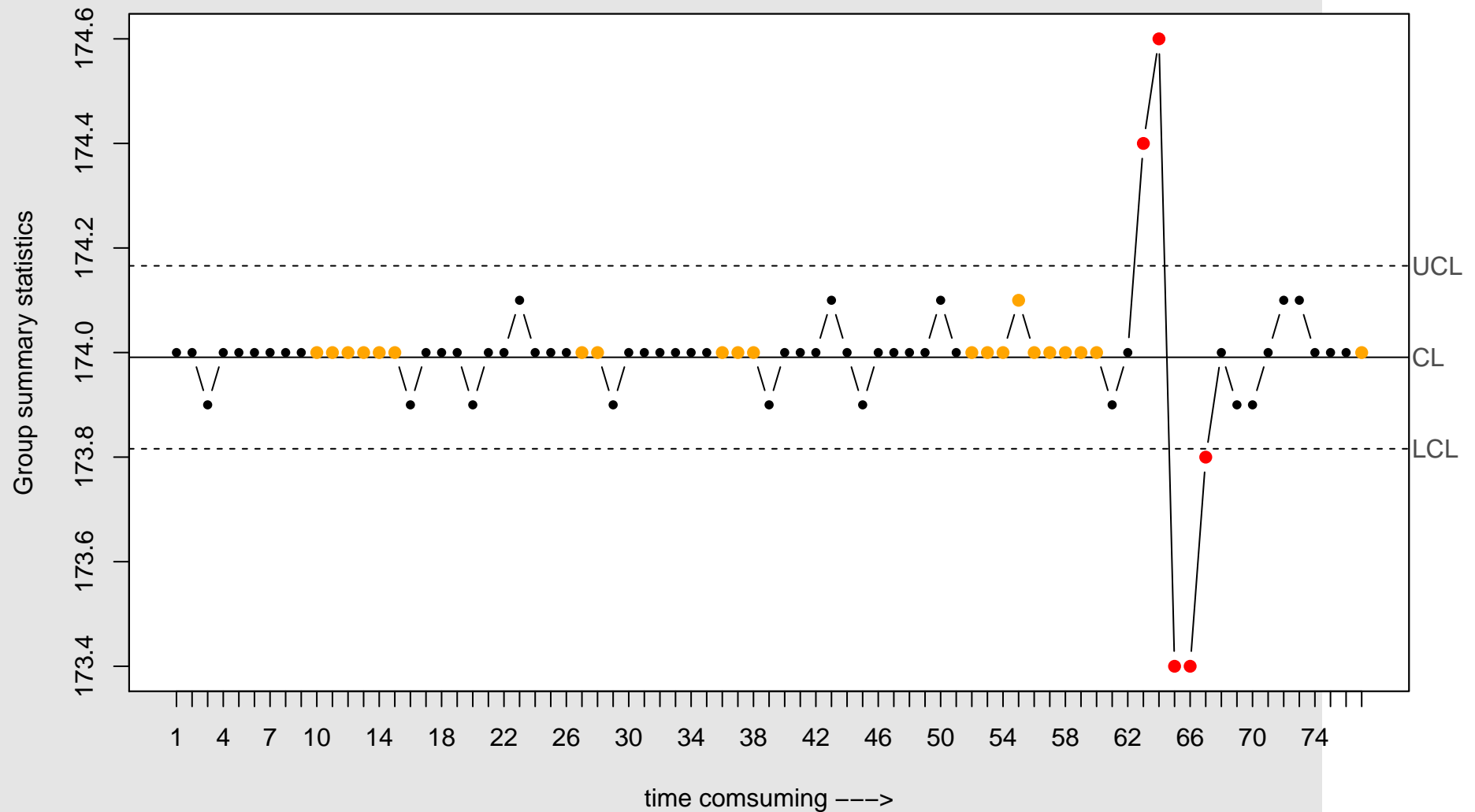


Number of groups = 77
Center = 170
StdDev = 4.742757

LCL = 165
UCL = 175

Number beyond limits = 0
Number violating runs = 71

1th column point of this product



Number of groups = 77

Center = 173.9909

StdDev = 0.058324

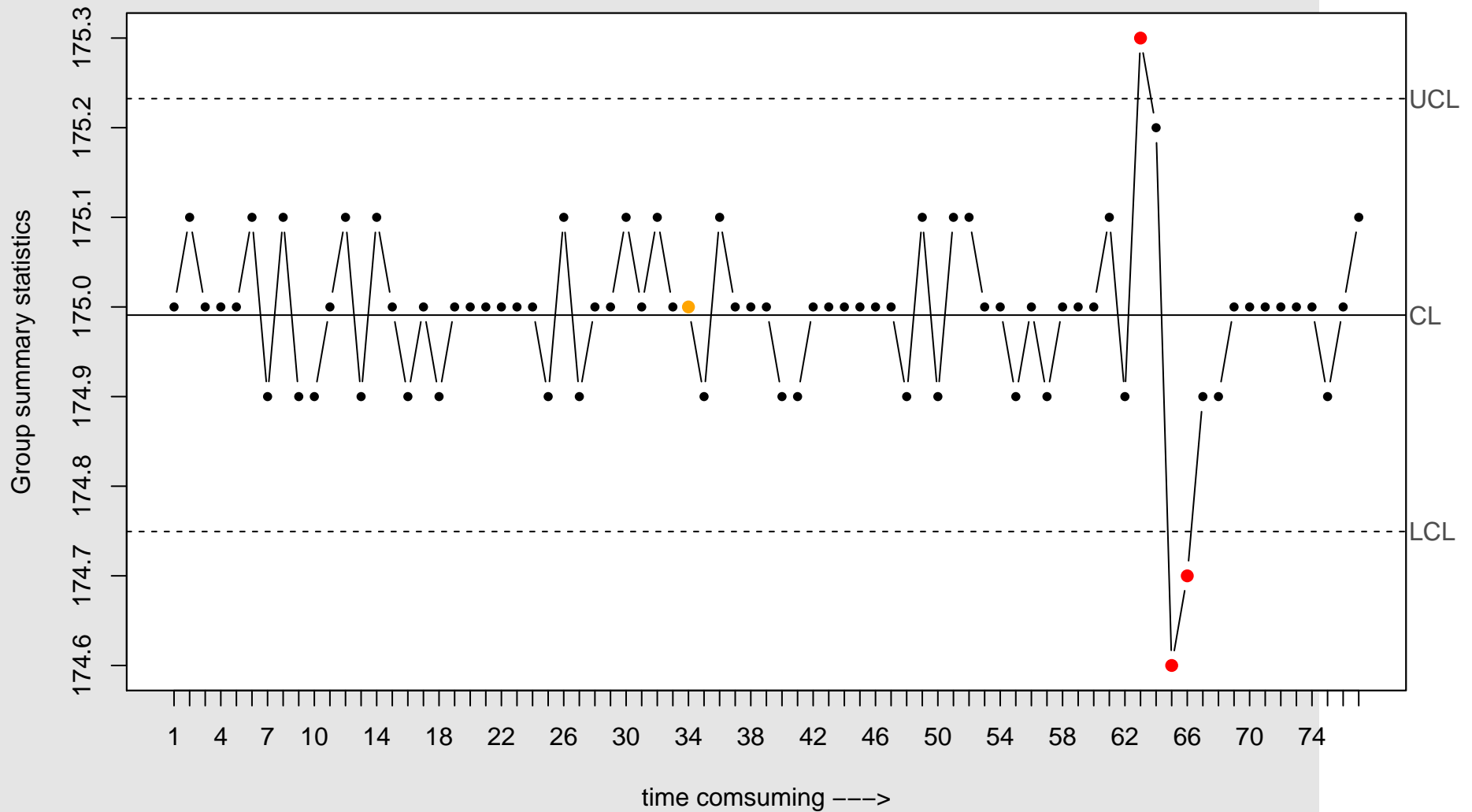
LCL = 173.8159

UCL = 174.1659

Number beyond limits = 5

Number violating runs = 21

2th column point of this product



Number of groups = 77

Center = 174.9909

StdDev = 0.08048712

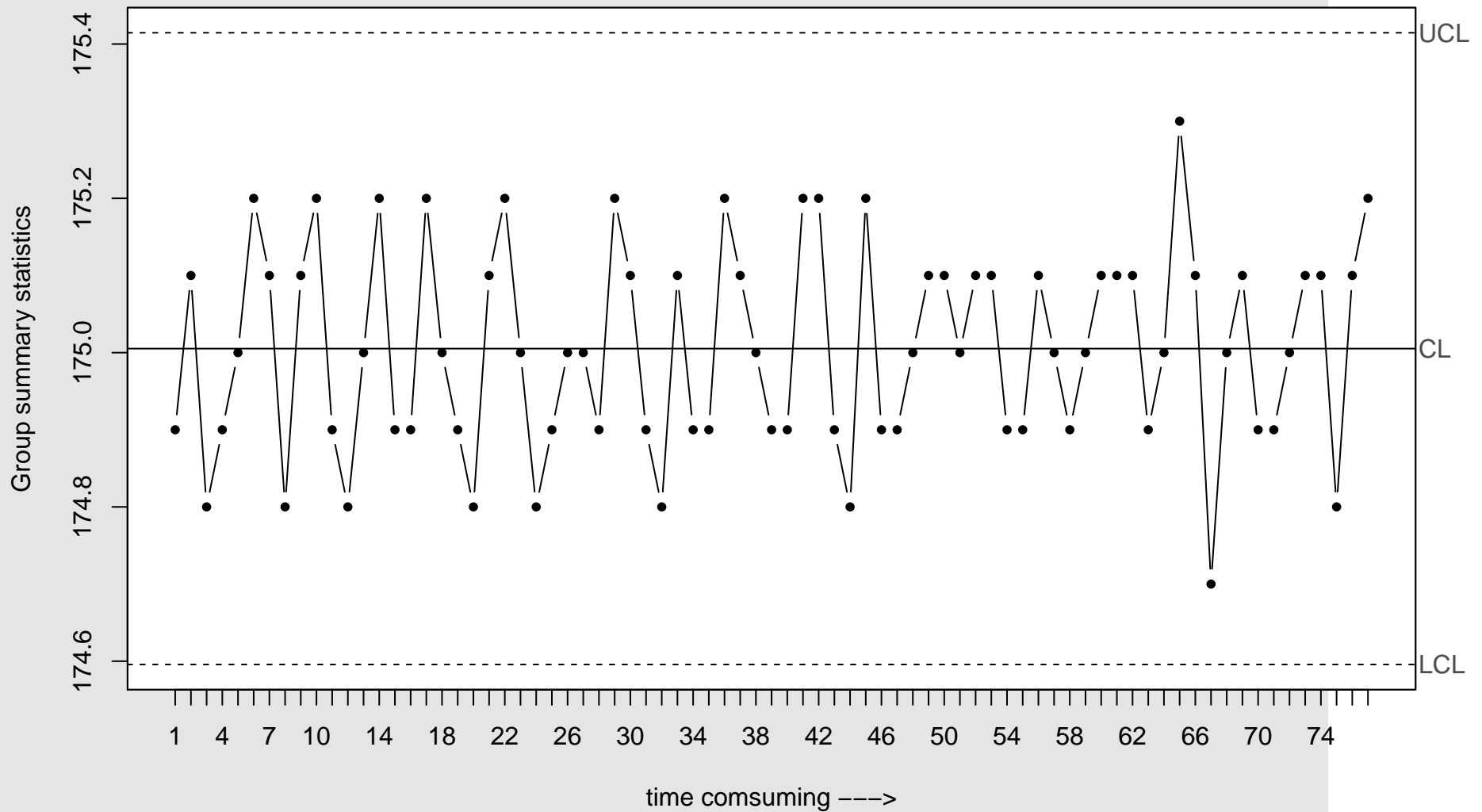
LCL = 174.7494

UCL = 175.2324

Number beyond limits = 3

Number violating runs = 1

3th column point of this product



Number of groups = 77

Center = 175.0052

StdDev = 0.1364782

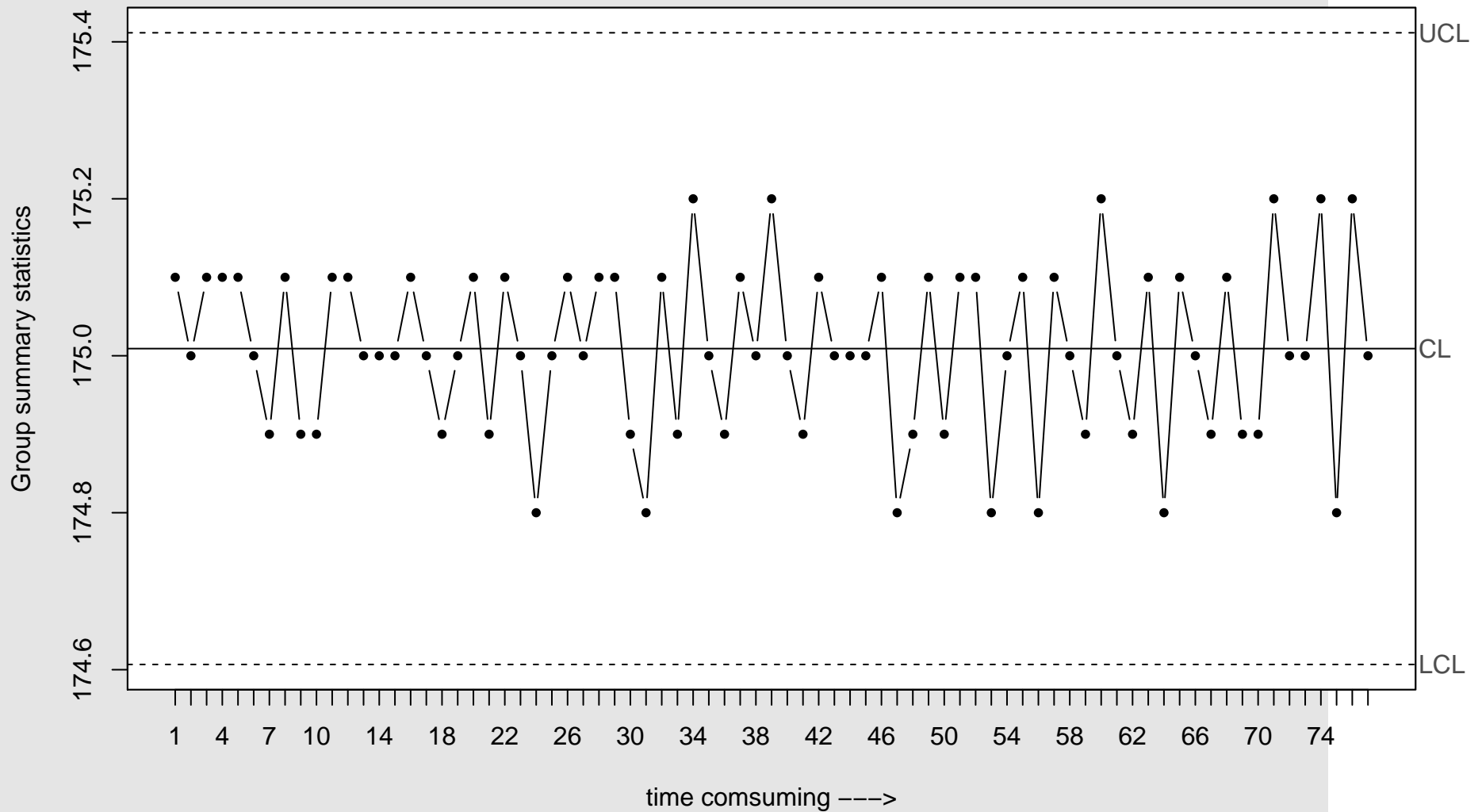
LCL = 174.5958

UCL = 175.4146

Number beyond limits = 0

Number violating runs = 0

4th column point of this product



Number of groups = 77

Center = 175.0091

StdDev = 0.1341452

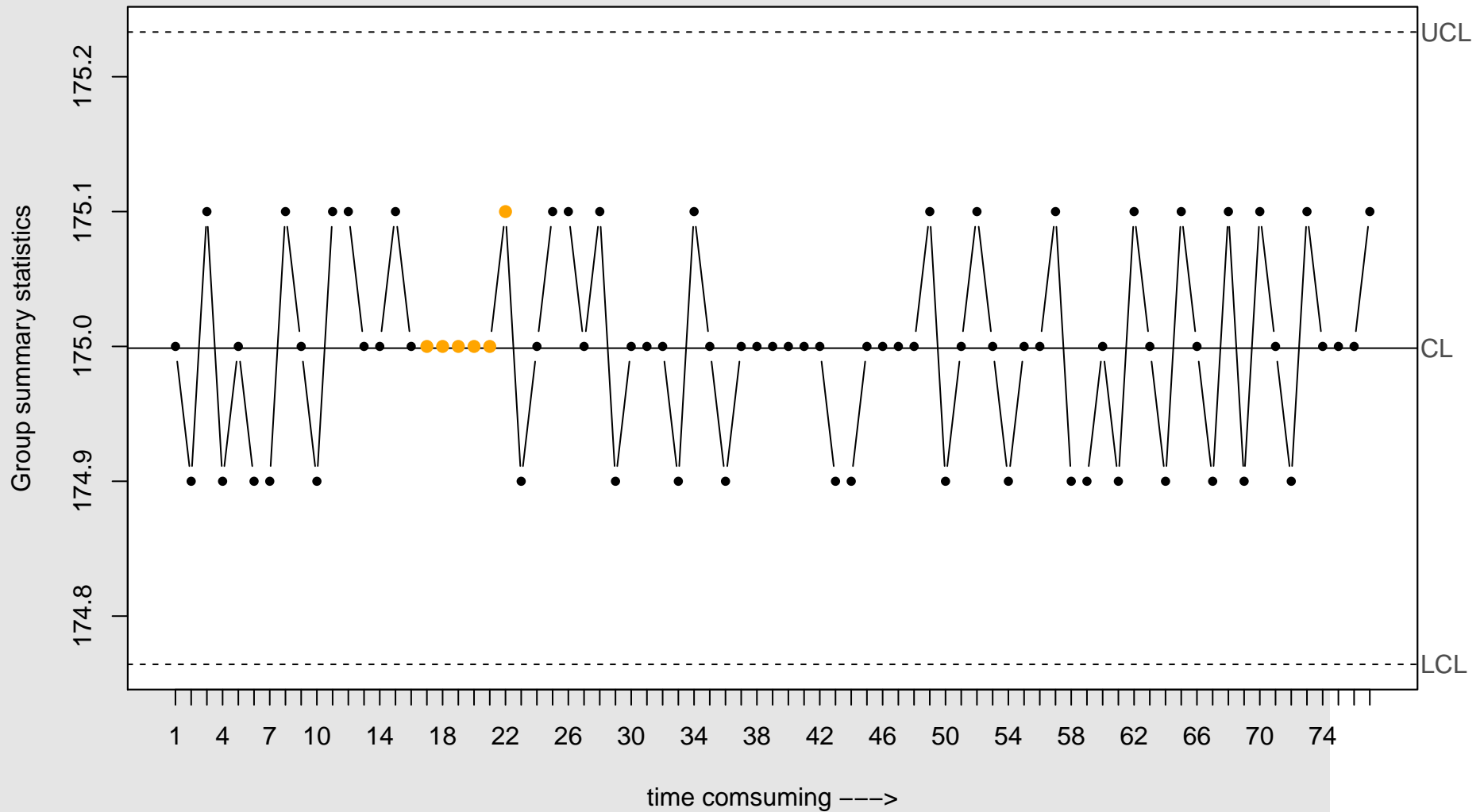
LCL = 174.6067

UCL = 175.4115

Number beyond limits = 0

Number violating runs = 0

5th column point of this product

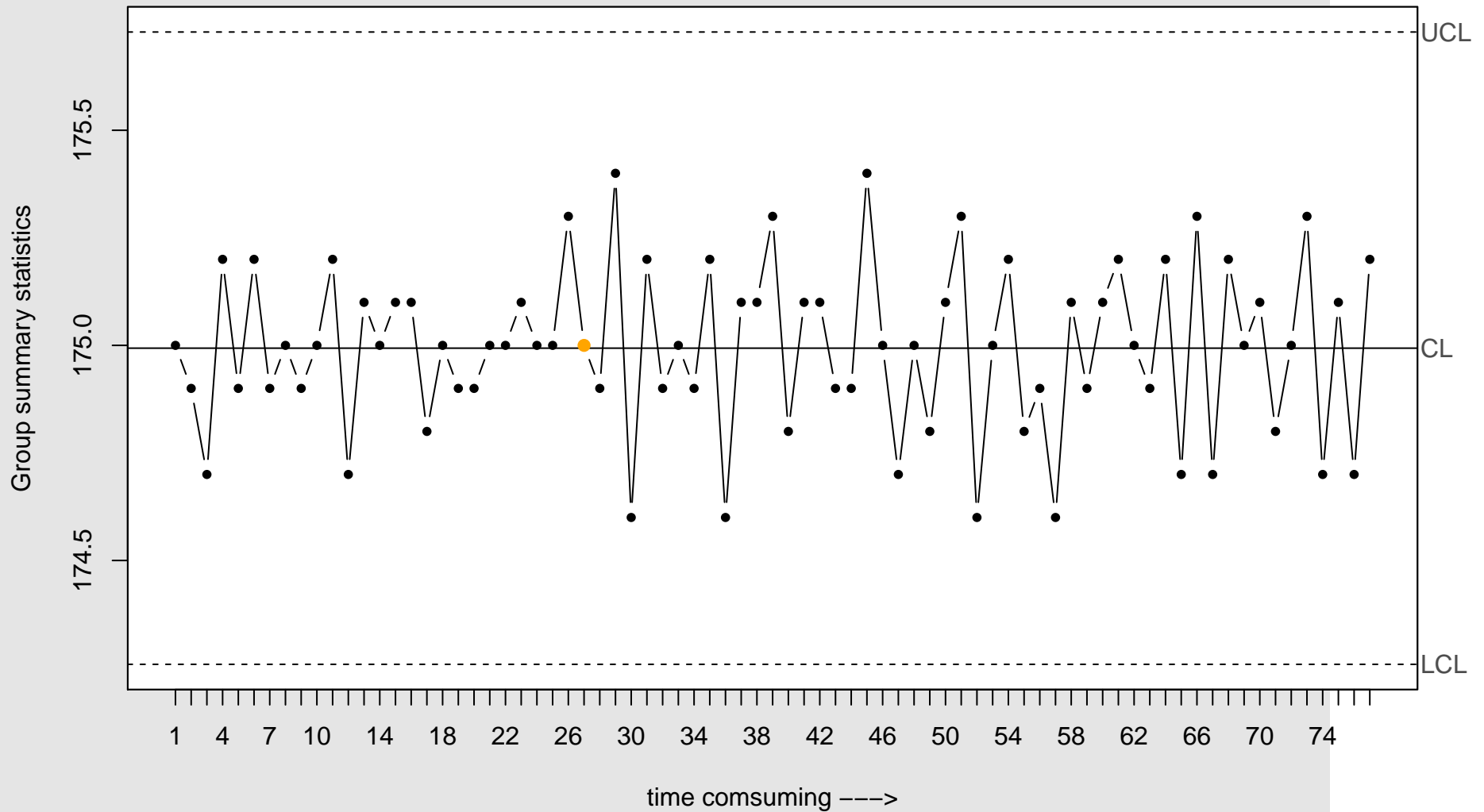


Number of groups = 77
Center = 174.9987
StdDev = 0.07815416

LCL = 174.7642
UCL = 175.2332

Number beyond limits = 0
Number violating runs = 6

6th column point of this product



Number of groups = 77

Center = 174.9935

StdDev = 0.2449608

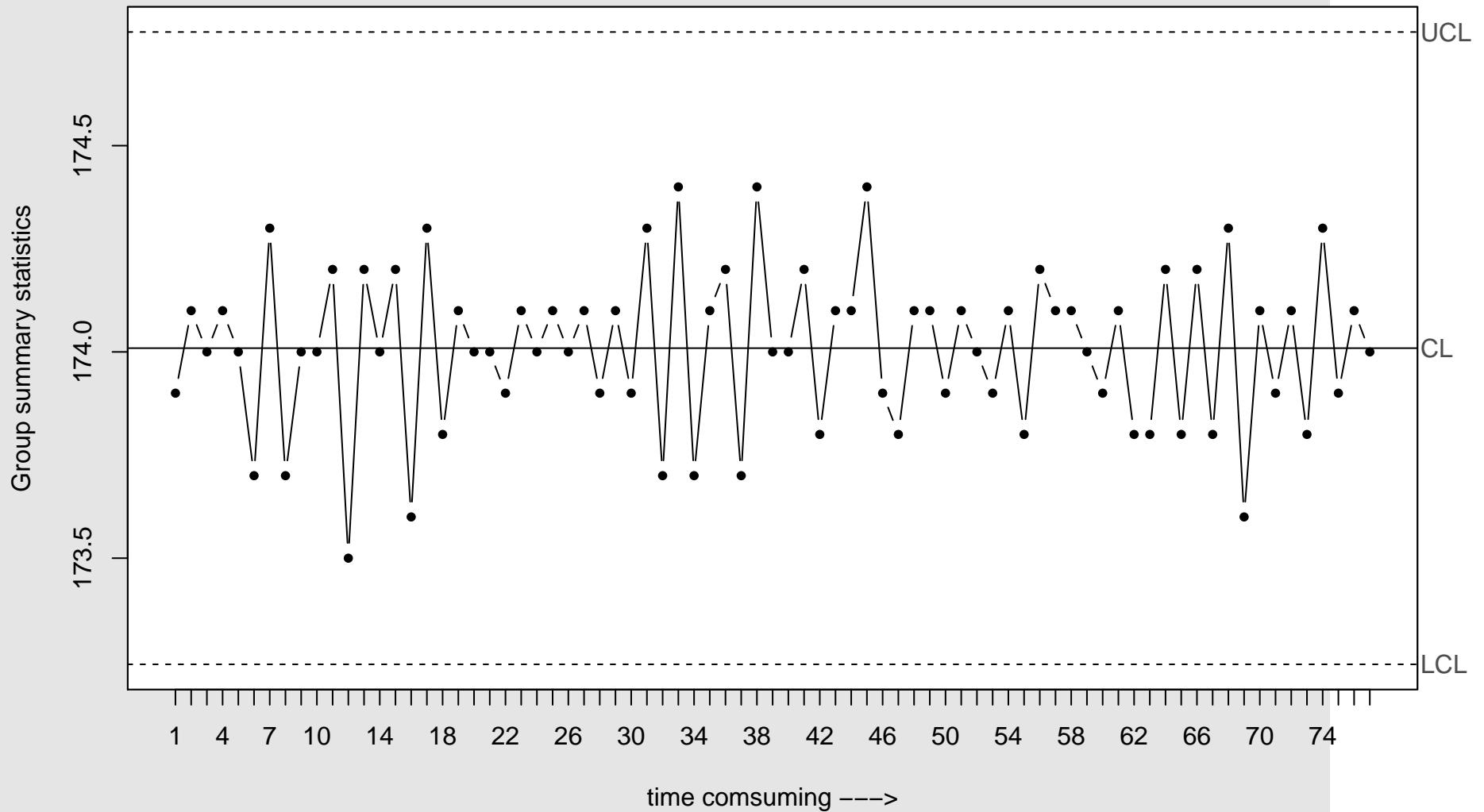
LCL = 174.2586

UCL = 175.7284

Number beyond limits = 0

Number violating runs = 1

7th column point of this product



Number of groups = 77

Center = 174.0091

StdDev = 0.2554591

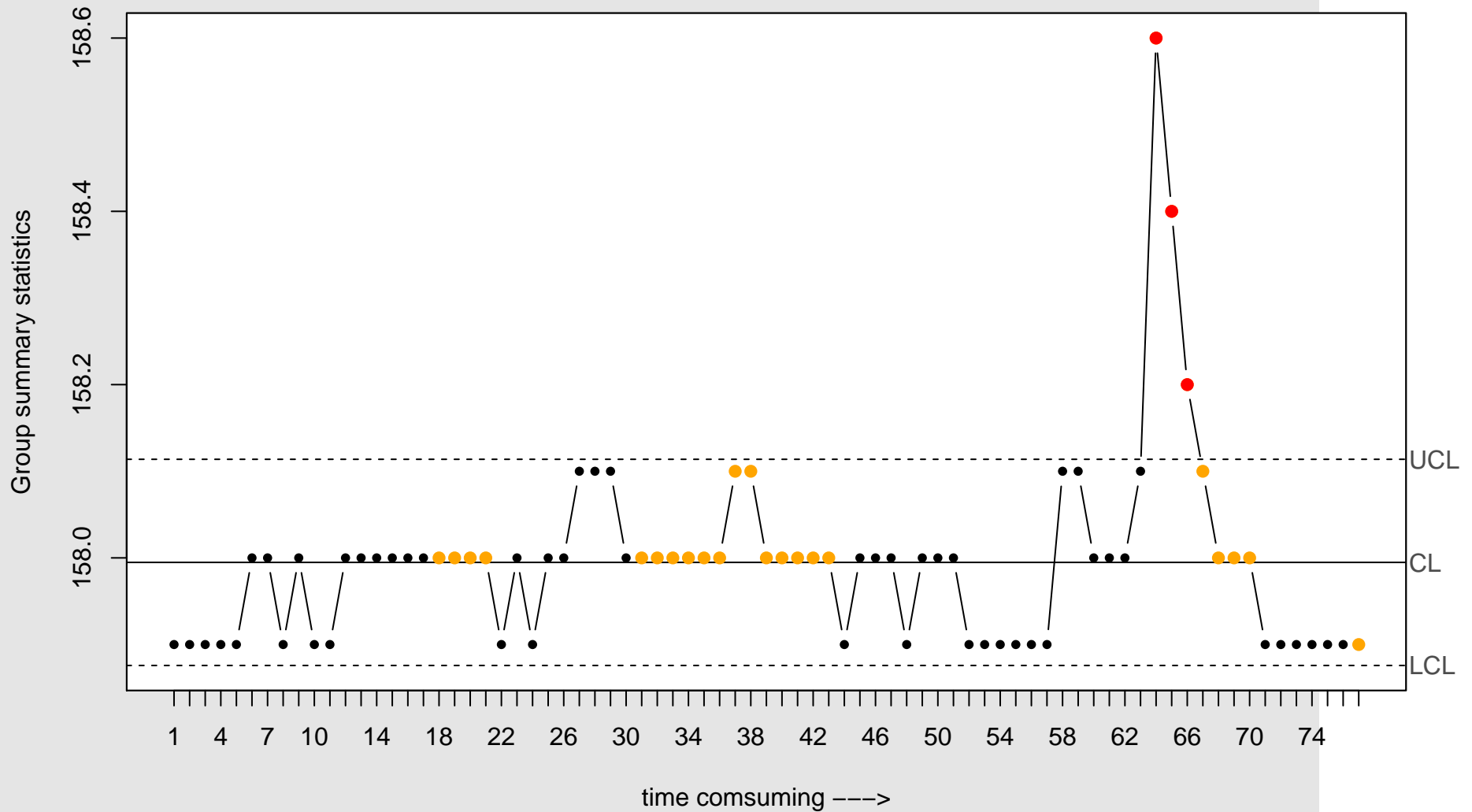
LCL = 173.2427

UCL = 174.7755

Number beyond limits = 0

Number violating runs = 0

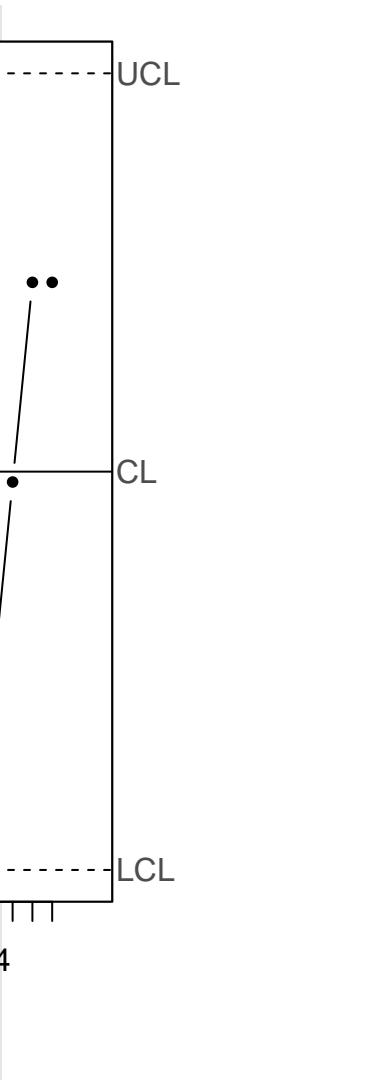
8th column point of this product



Number of groups = 77
 Center = 157.9948
 StdDev = 0.03966032

LCL = 157.8758
 UCL = 158.1138

Number beyond limits = 3
 Number violating runs = 25

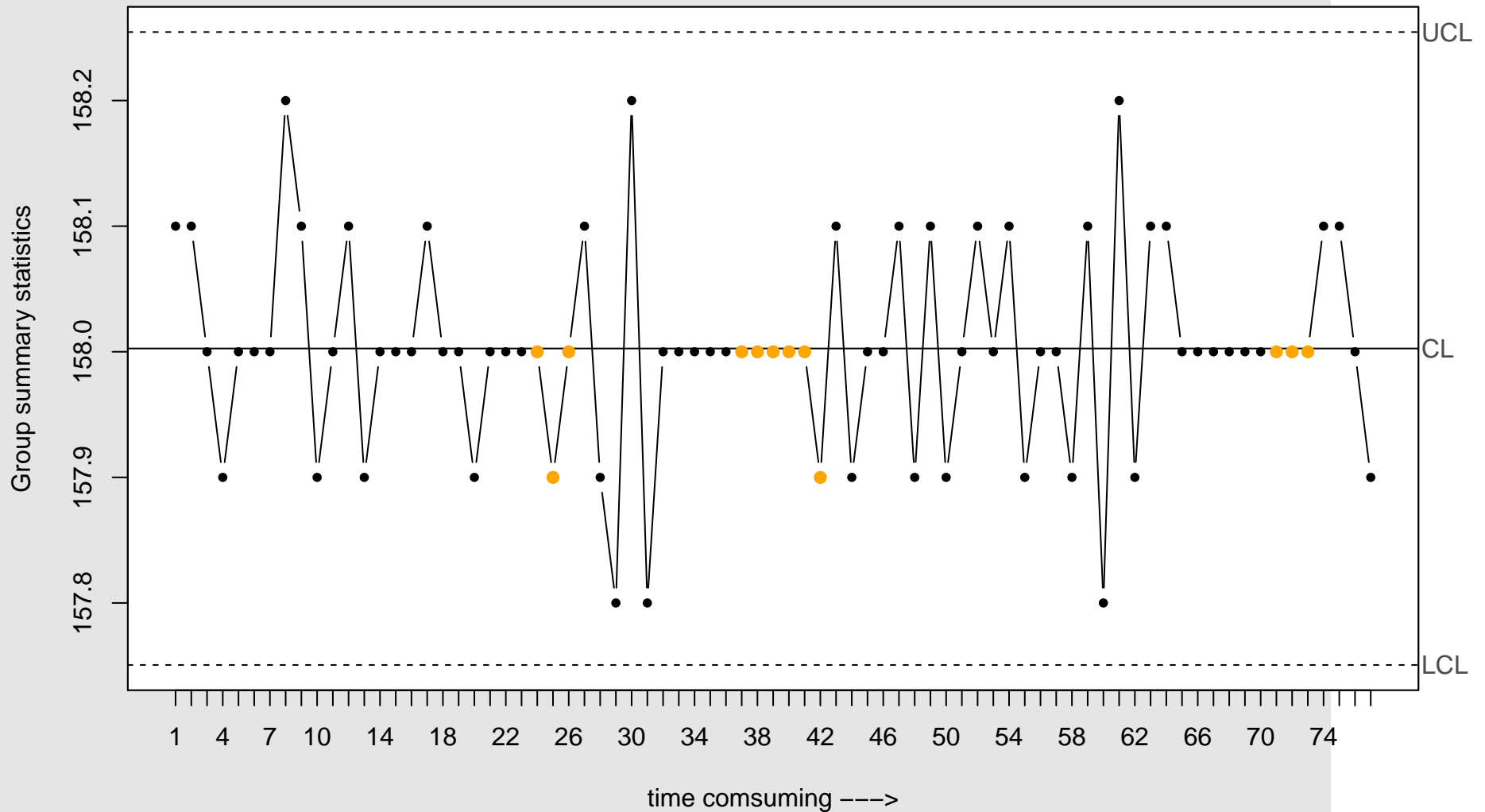


Number of groups = 77
Center = 158.0052
StdDev = 0.06648936

LCL = 157.8057
UCL = 158.2047

Number beyond limits = 0
Number violating runs = 5

10th column point of this product

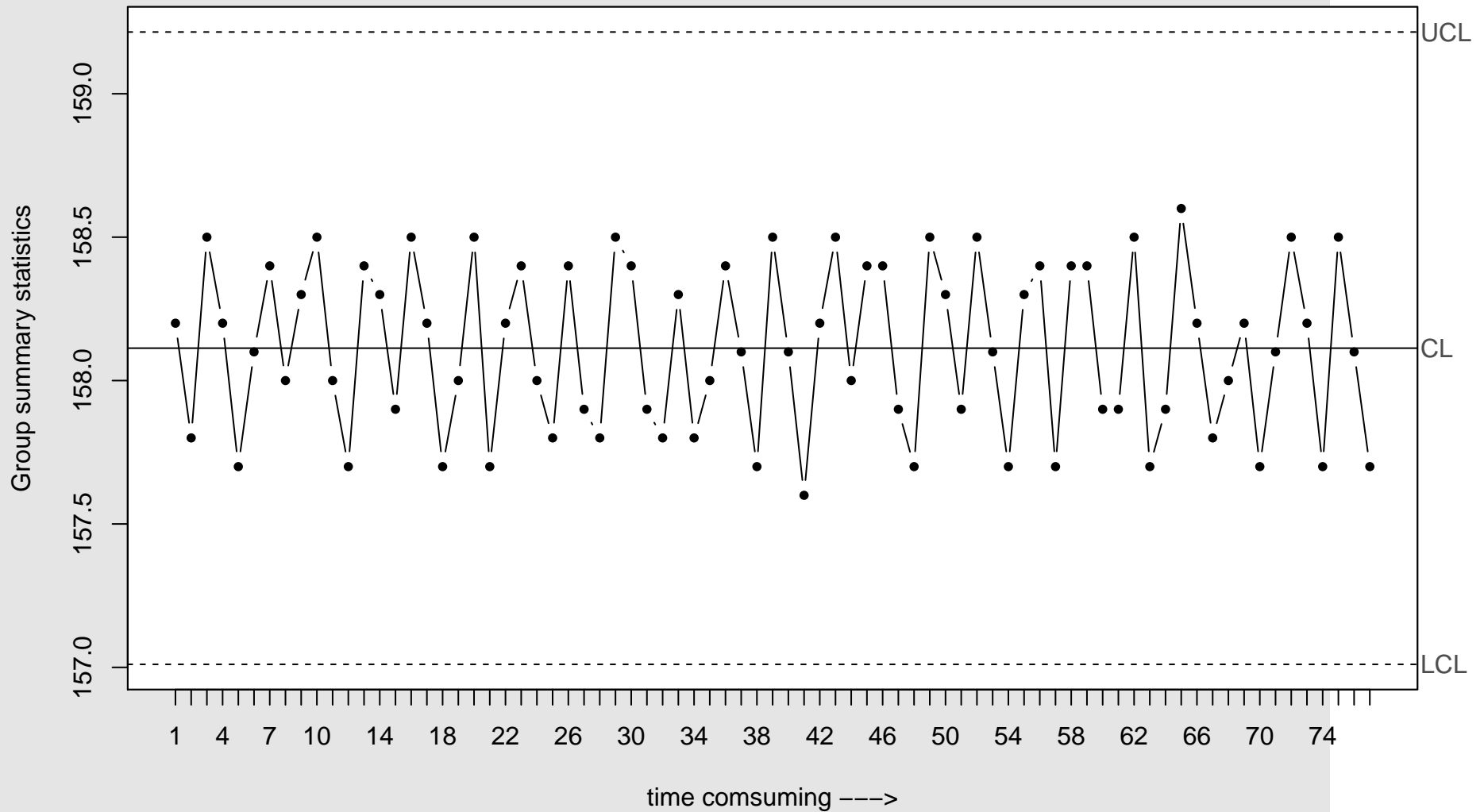


Number of groups = 77
Center = 158.0026
StdDev = 0.08398656

LCL = 157.7506
UCL = 158.2546

Number beyond limits = 0
Number violating runs = 12

11th column point of this product



Number of groups = 77

Center = 158.113

StdDev = 0.3674412

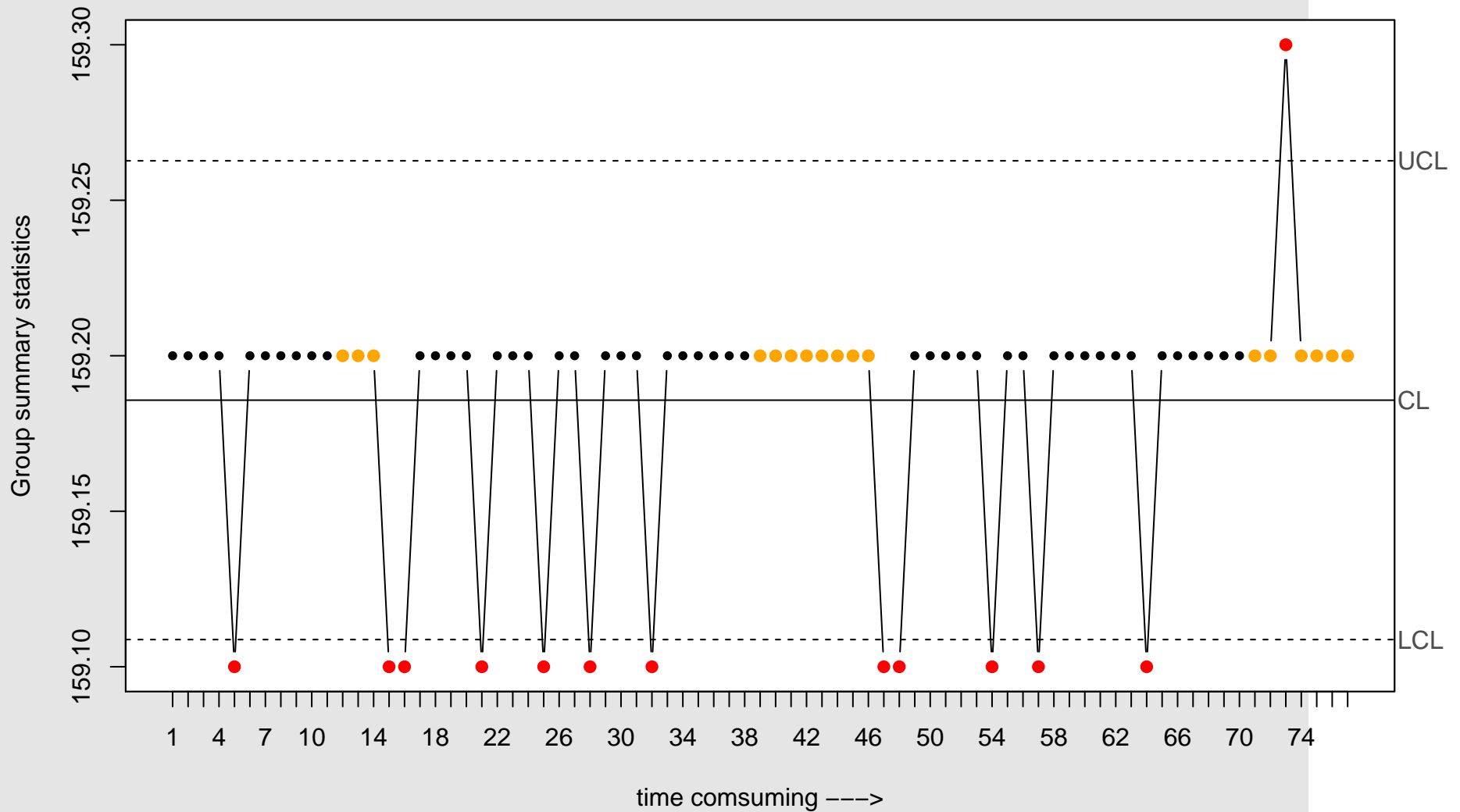
LCL = 157.0107

UCL = 159.2153

Number beyond limits = 0

Number violating runs = 0

12th column point of this product

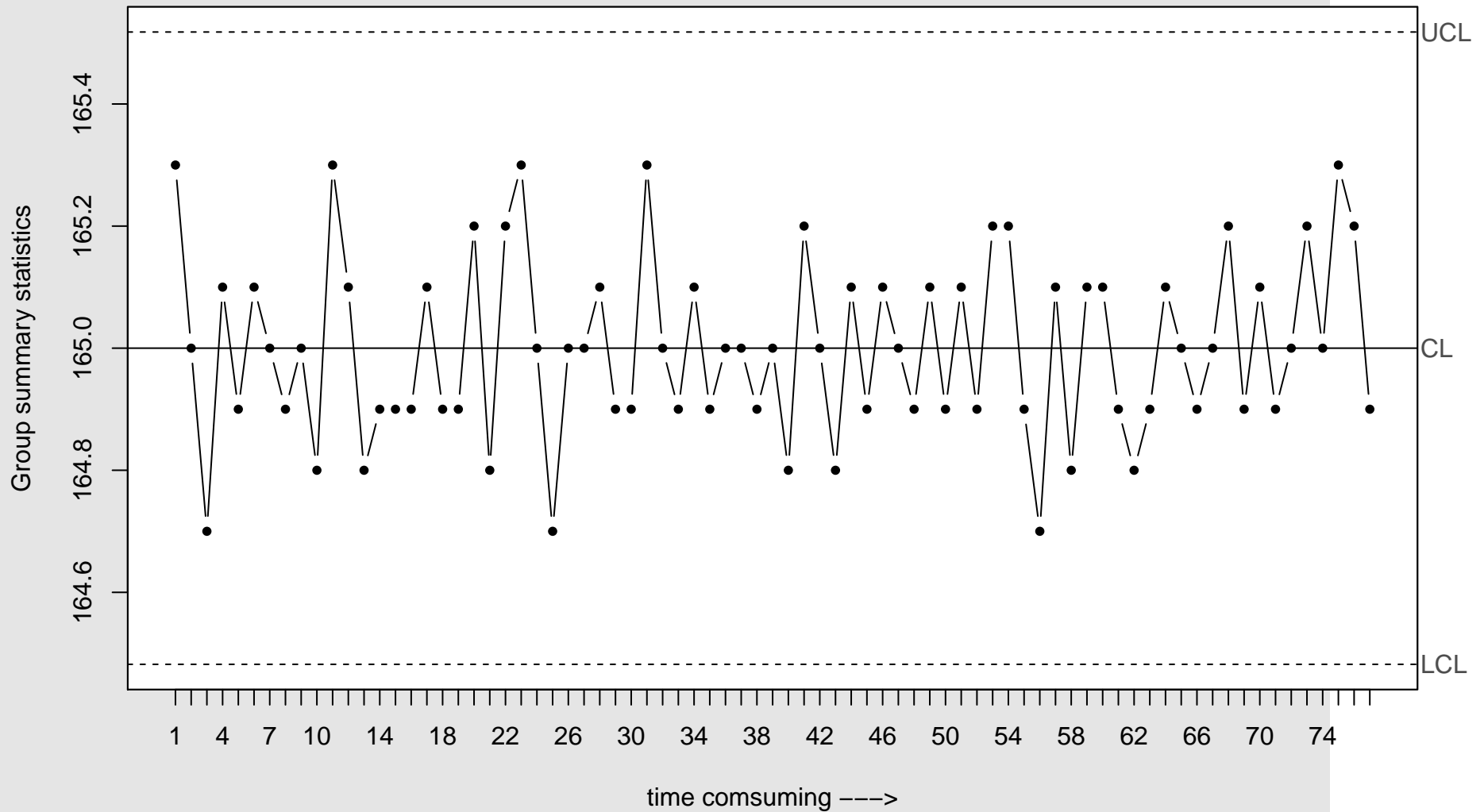


Number of groups = 77
Center = 159.1857
StdDev = 0.02566256

LCL = 159.1087
UCL = 159.2627

Number beyond limits = 13
Number violating runs = 18

13th column point of this product



Number of groups = 77

Center = 165

StdDev = 0.172639

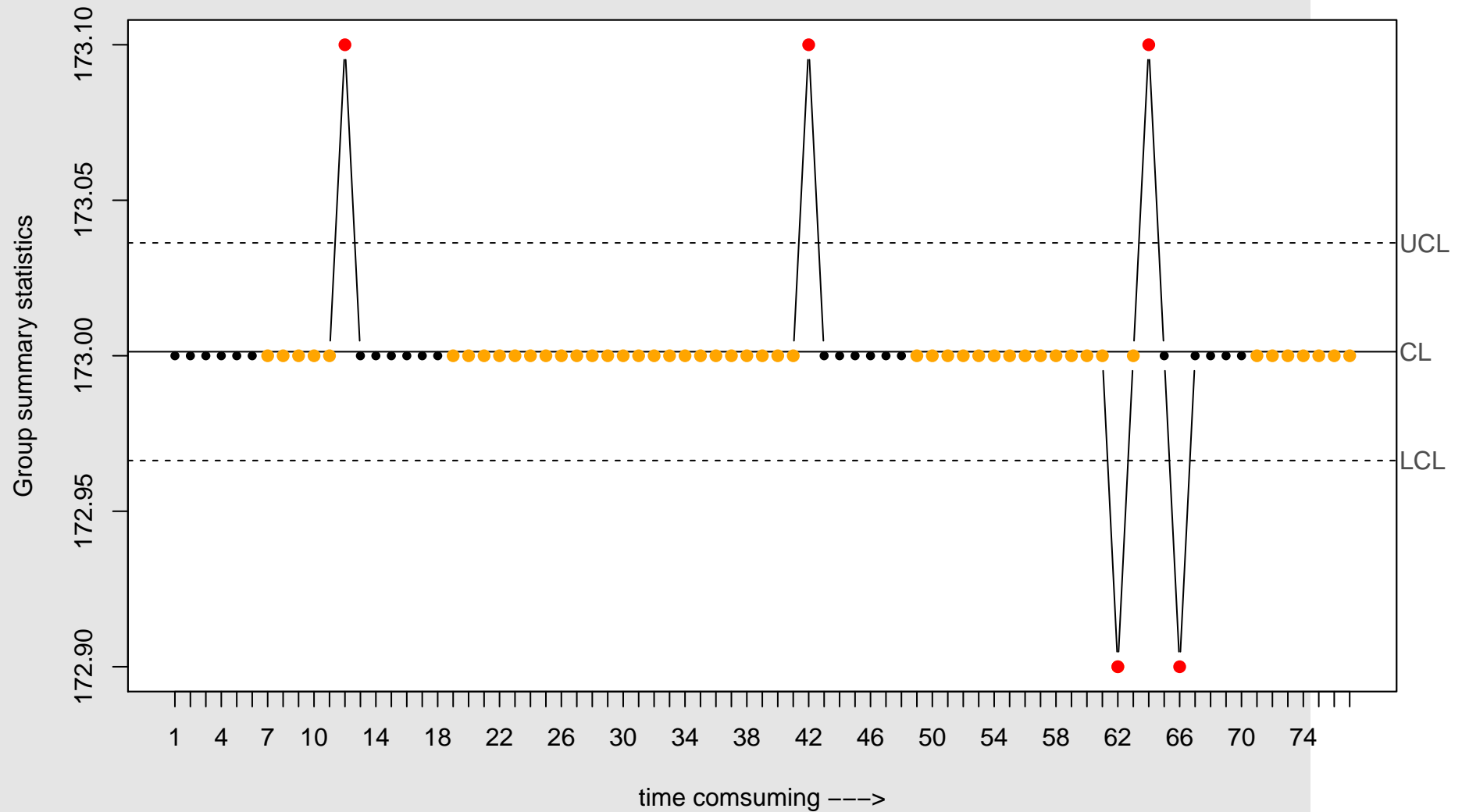
LCL = 164.4821

UCL = 165.5179

Number beyond limits = 0

Number violating runs = 0

14th column point of this product

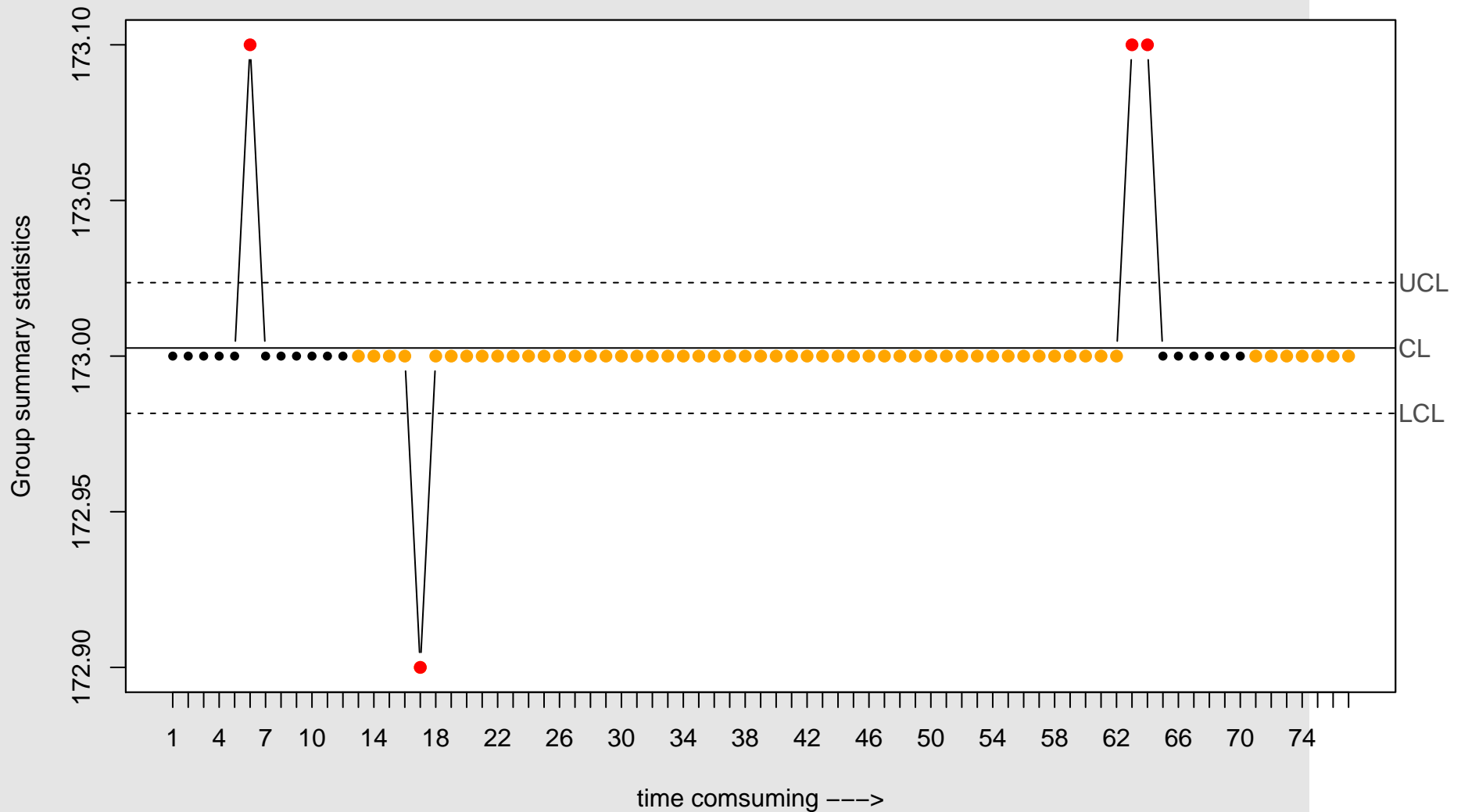


Number of groups = 77
Center = 173.0013
StdDev = 0.0116648

LCL = 172.9663
UCL = 173.0363

Number beyond limits = 5
Number violating runs = 50

15th column point of this product

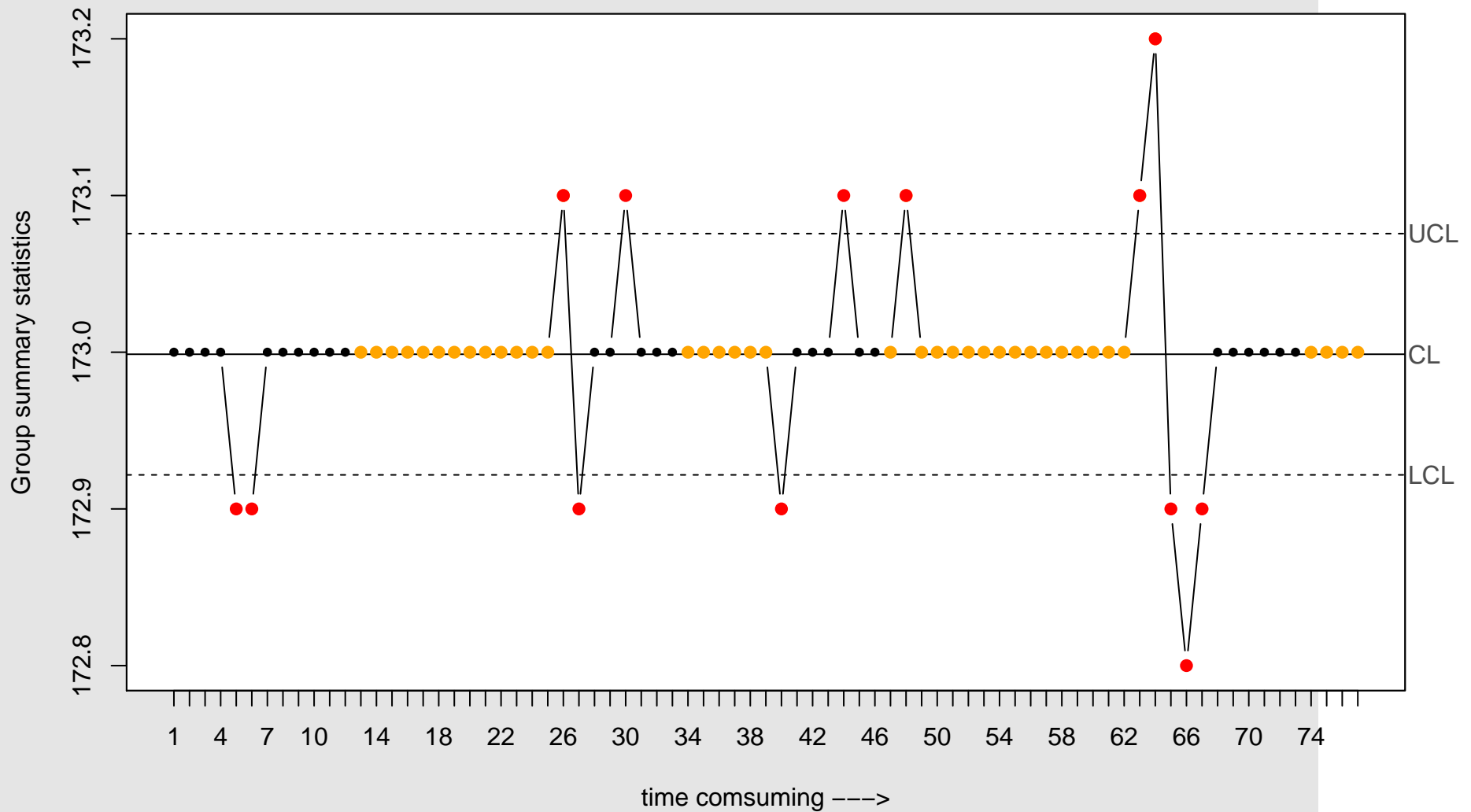


Number of groups = 77
Center = 173.0026
StdDev = 0.00699888

LCL = 172.9816
UCL = 173.0236

Number beyond limits = 4
Number violating runs = 57

16th column point of this product

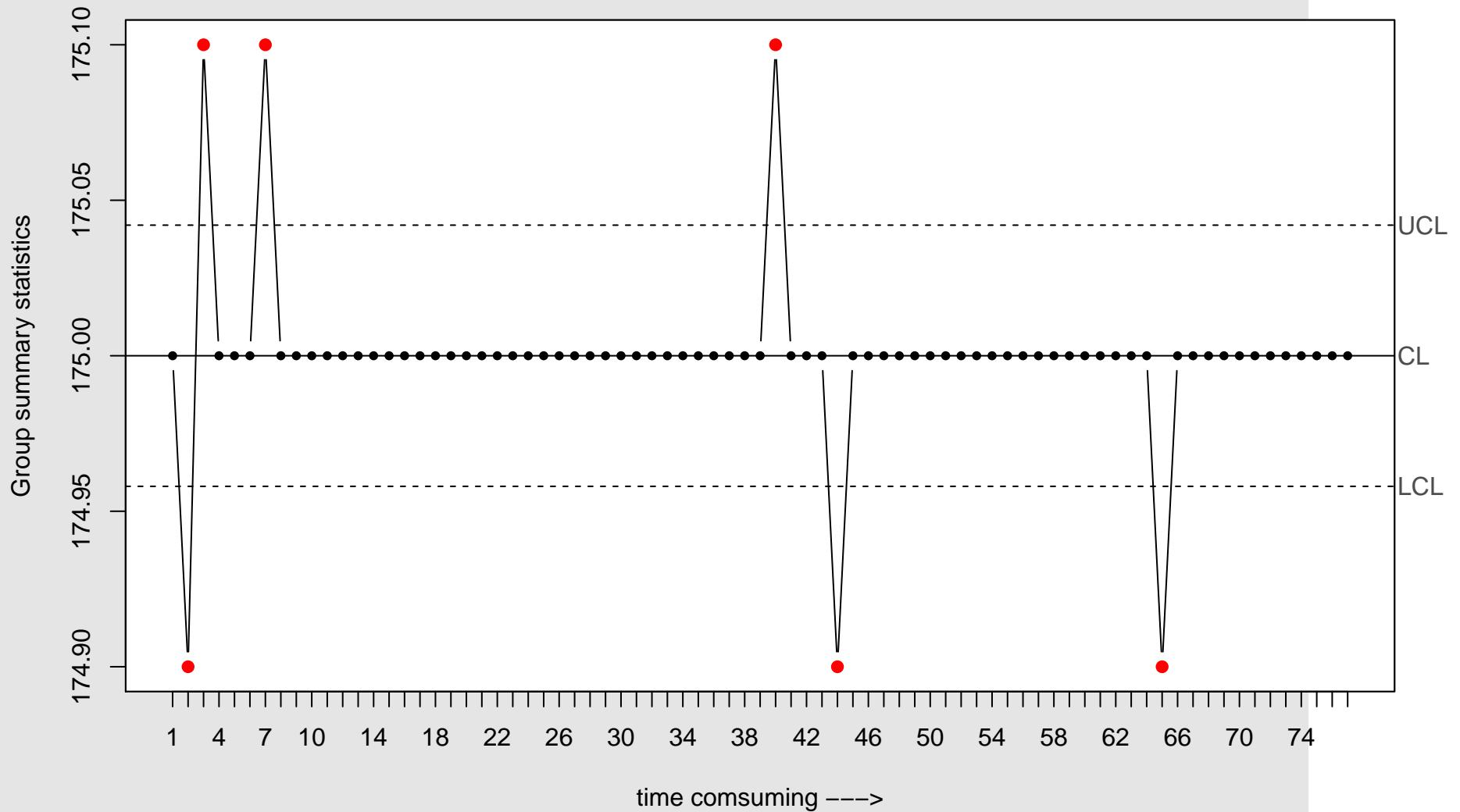


Number of groups = 77
Center = 172.9987
StdDev = 0.02566256

LCL = 172.9217
UCL = 173.0757

Number beyond limits = 13
Number violating runs = 42

17th column point of this product

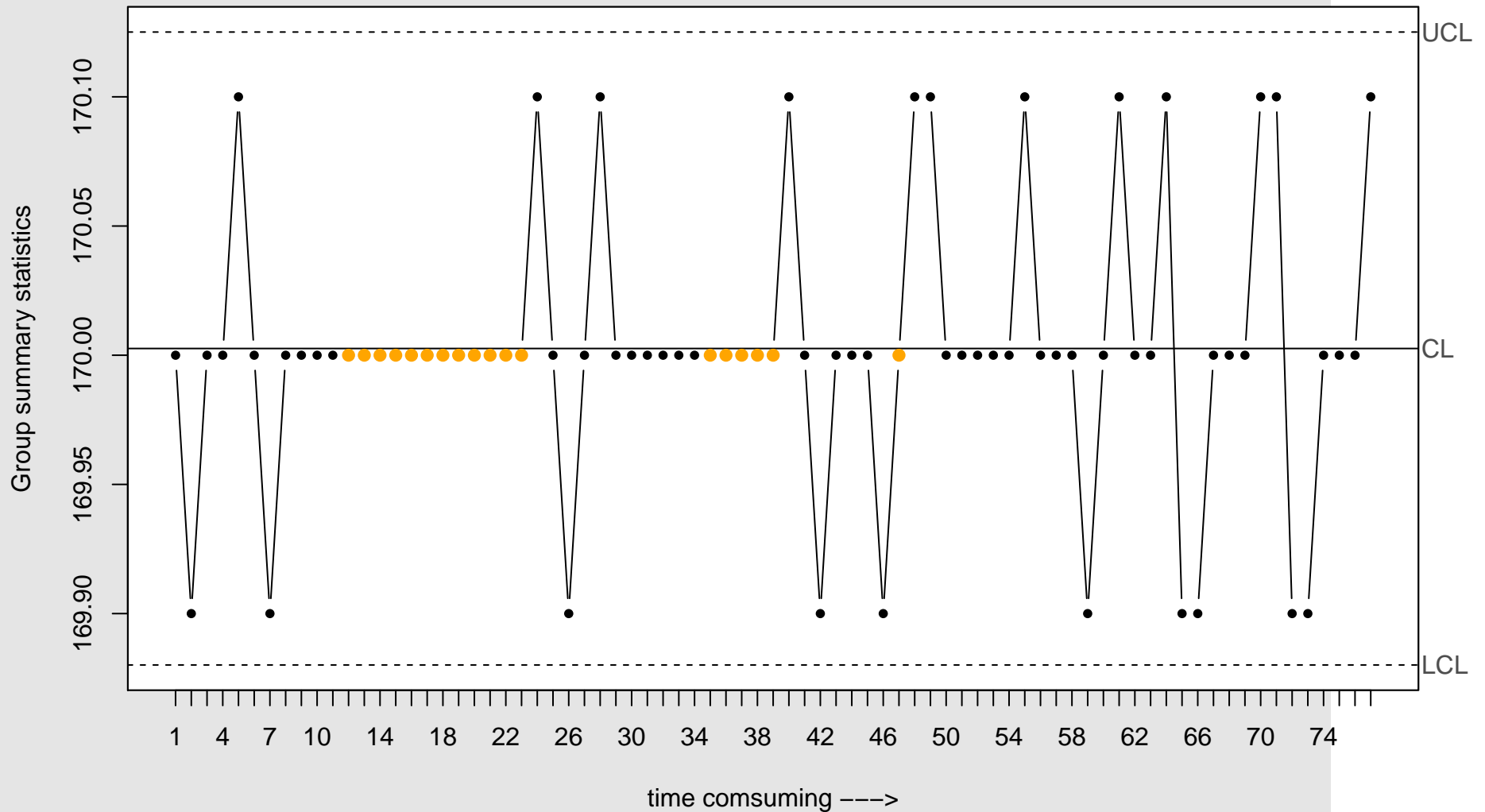


Number of groups = 77
Center = 175
StdDev = 0.01399776

LCL = 174.958
UCL = 175.042

Number beyond limits = 6
Number violating runs = 0

18th column point of this product



Number of groups = 77

Center = 170.0026

StdDev = 0.0408268

LCL = 169.8801

UCL = 170.1251

Number beyond limits = 0

Number violating runs = 18