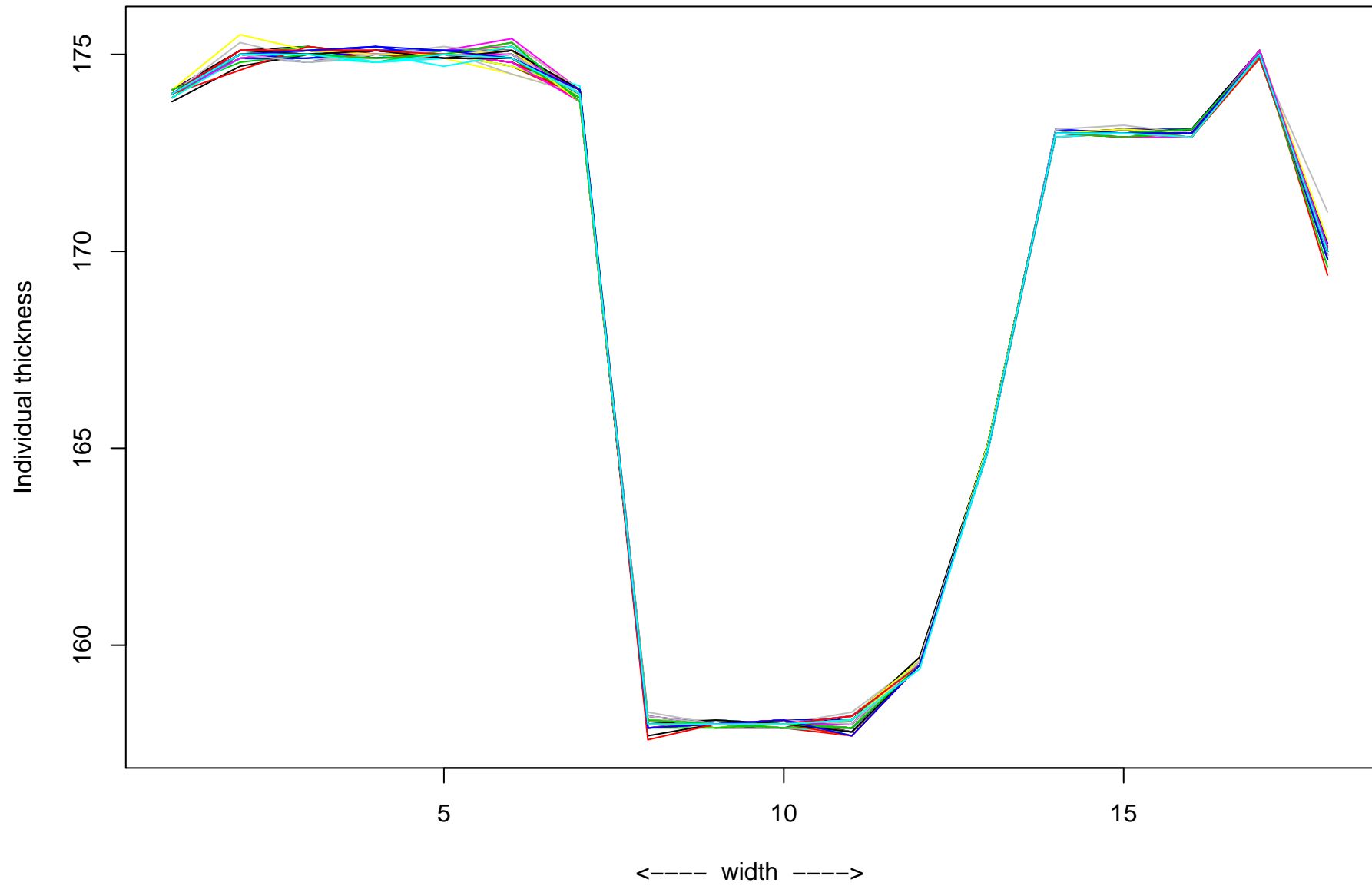
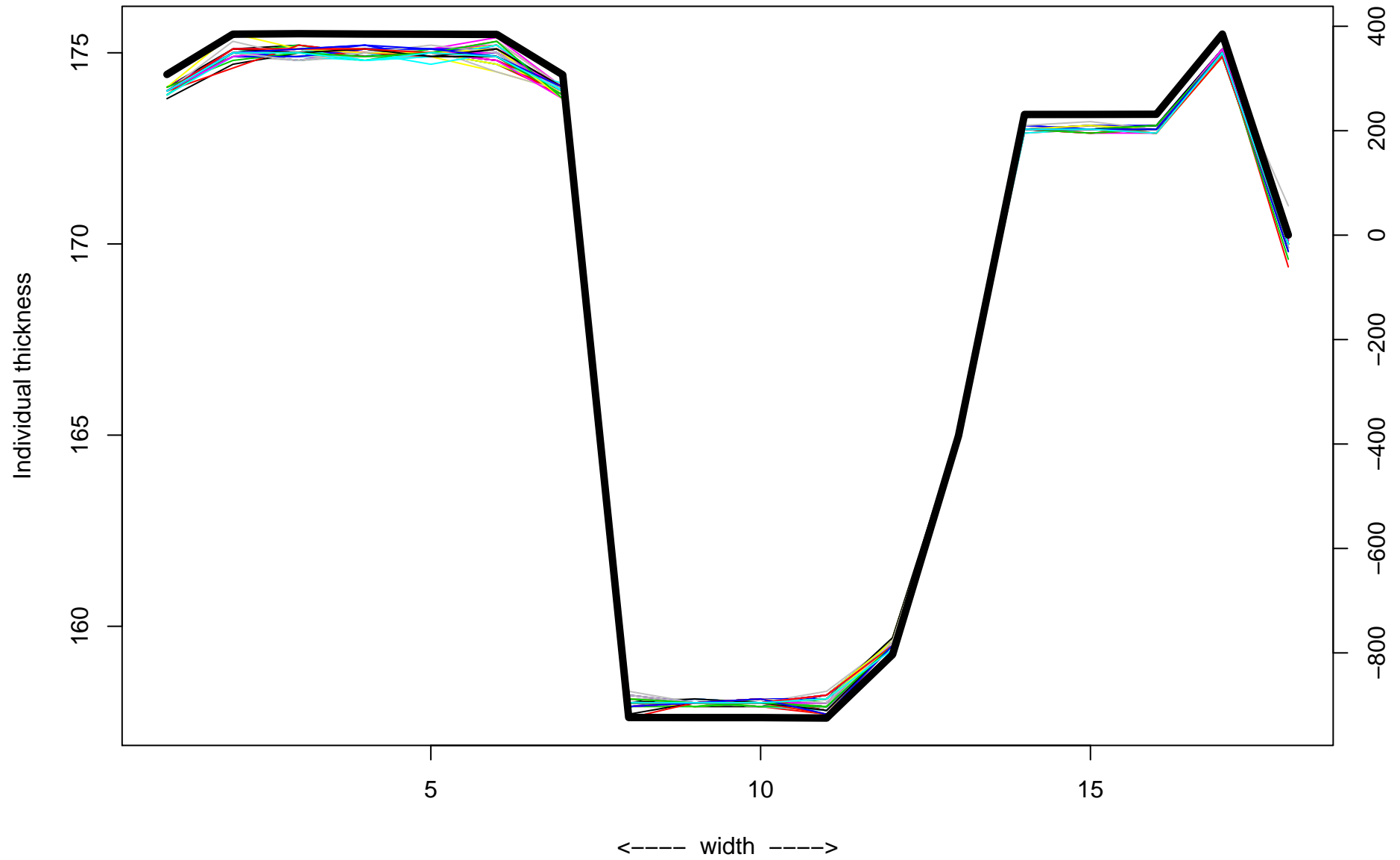


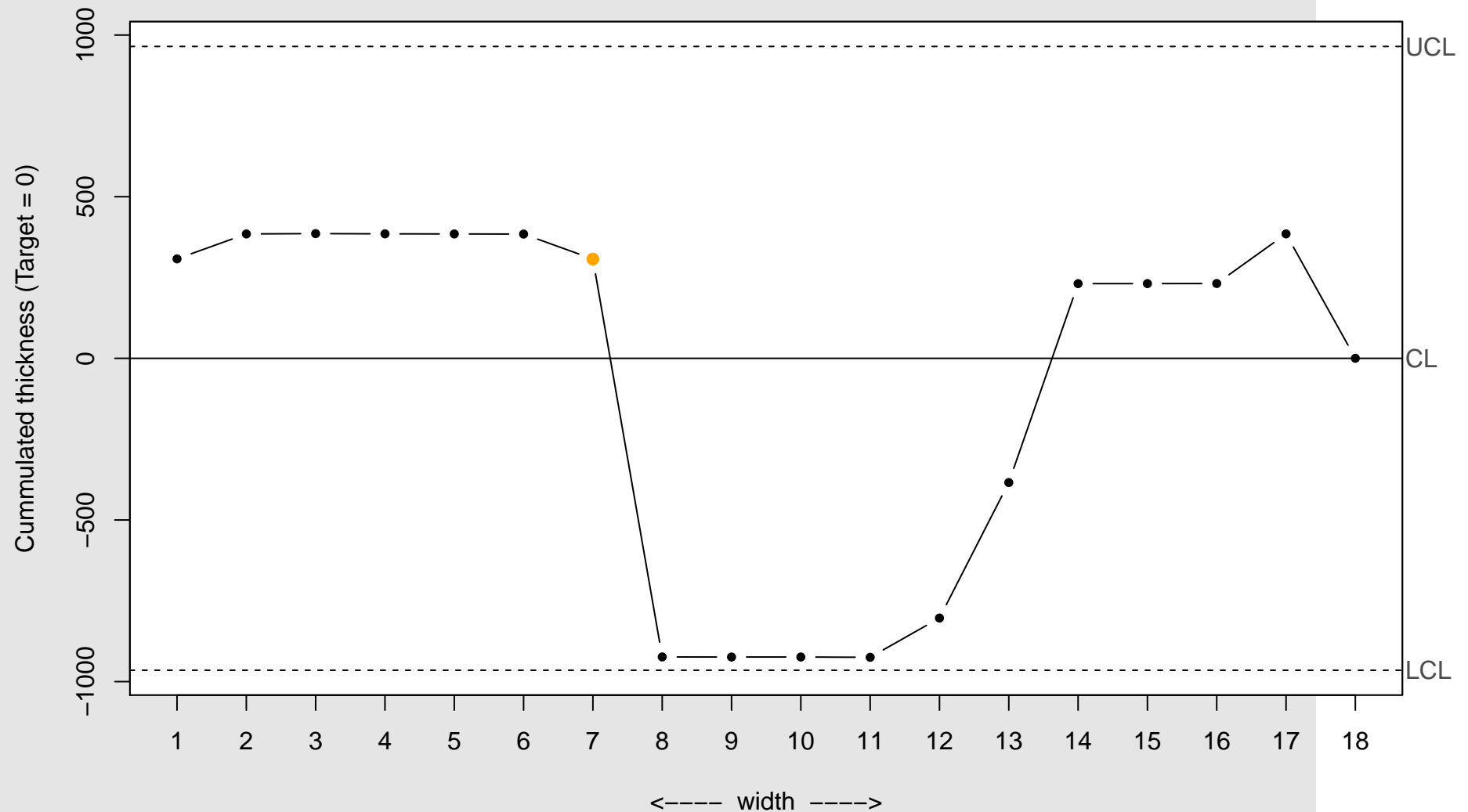
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 18

Center = 0

StdDev = 160.7895

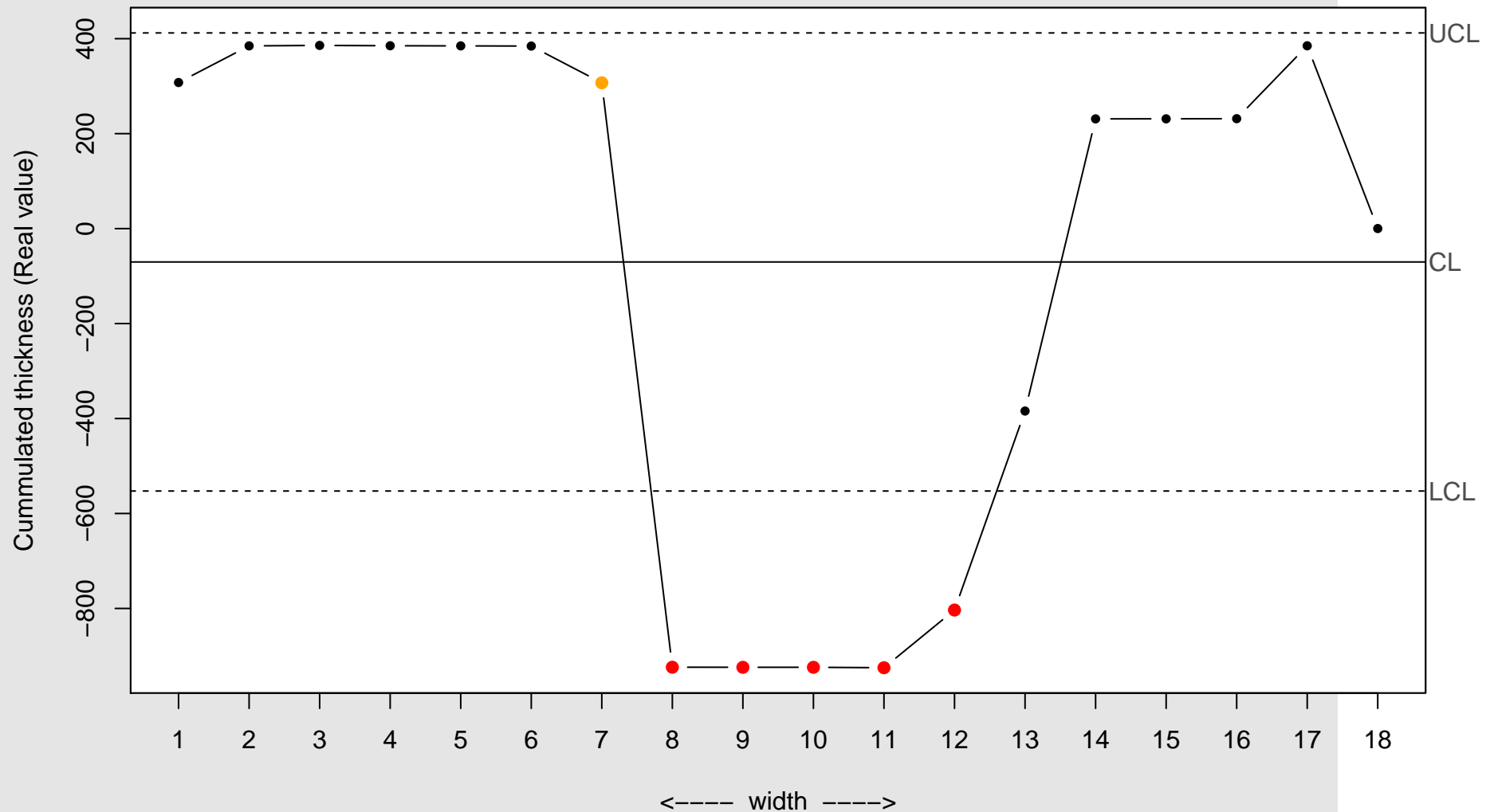
LCL = -964.7372

UCL = 964.7372

Number beyond limits = 0

Number violating runs = 1

Simulated thickness: Cpk is -0.02214 and z is -1.566 .

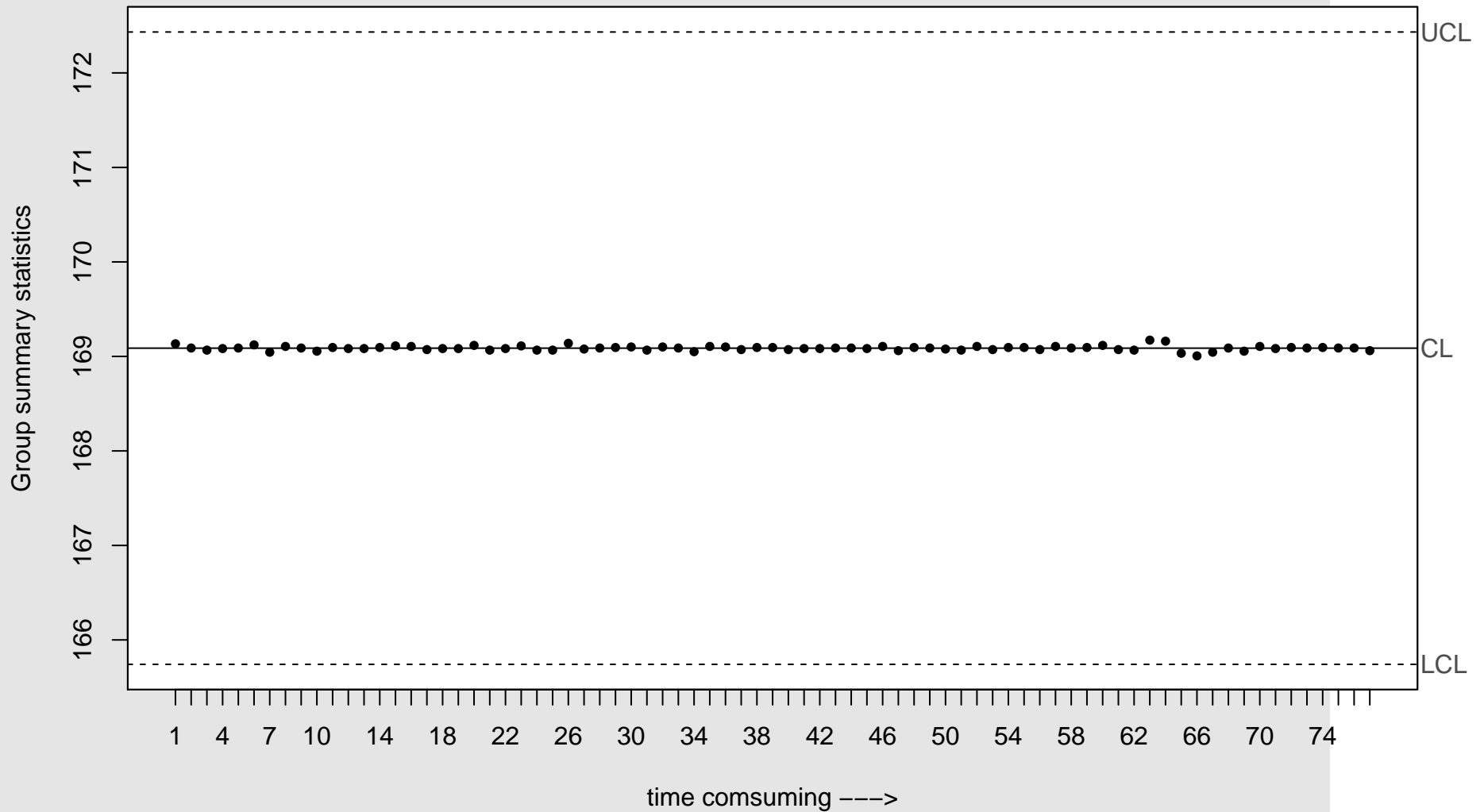


Number of groups = 18
Center = -70.28333
StdDev = 160.7895

LCL = -552.6519
UCL = 412.0853

Number beyond limits = 5
Number violating runs = 1

X-bar chart for a given dataset



Number of groups = 77

Center = 169.0872

StdDev = 4.730983

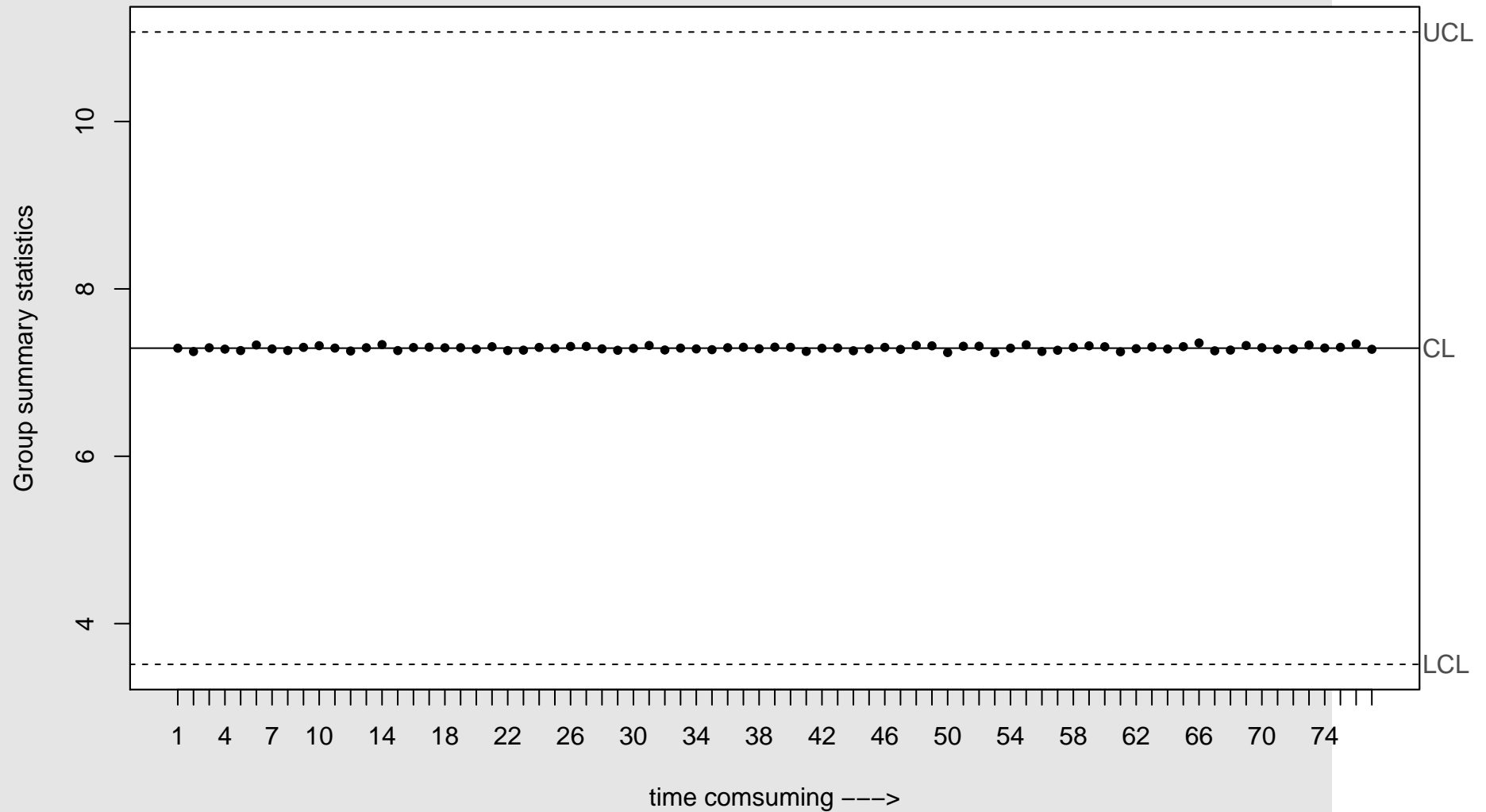
LCL = 165.7419

UCL = 172.4325

Number beyond limits = 0

Number violating runs = 0

S chart for a given dataset



Number of groups = 77

Center = 7.291773

StdDev = 7.399735

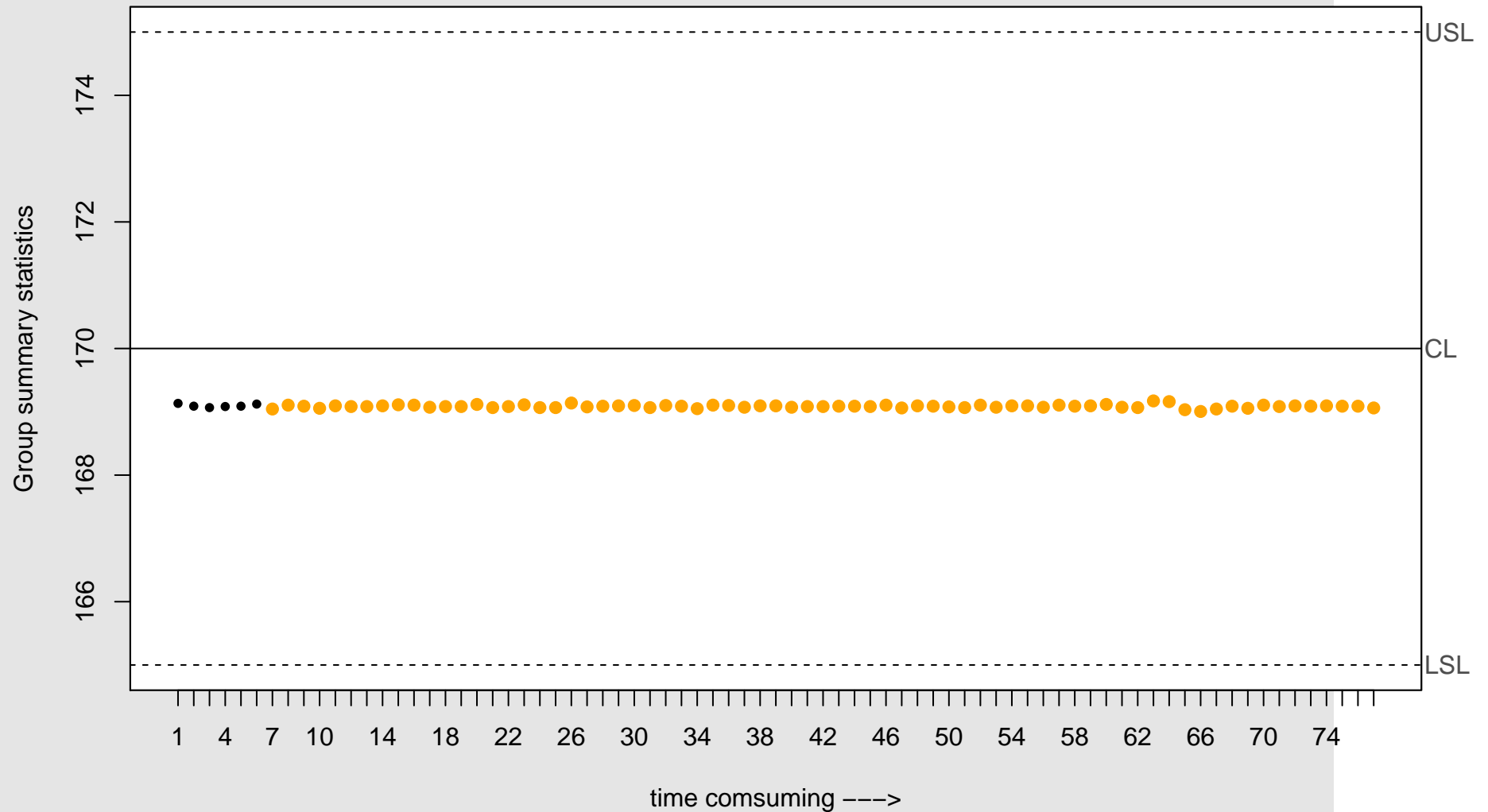
LCL = 3.513533

UCL = 11.07001

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 = 4.730983

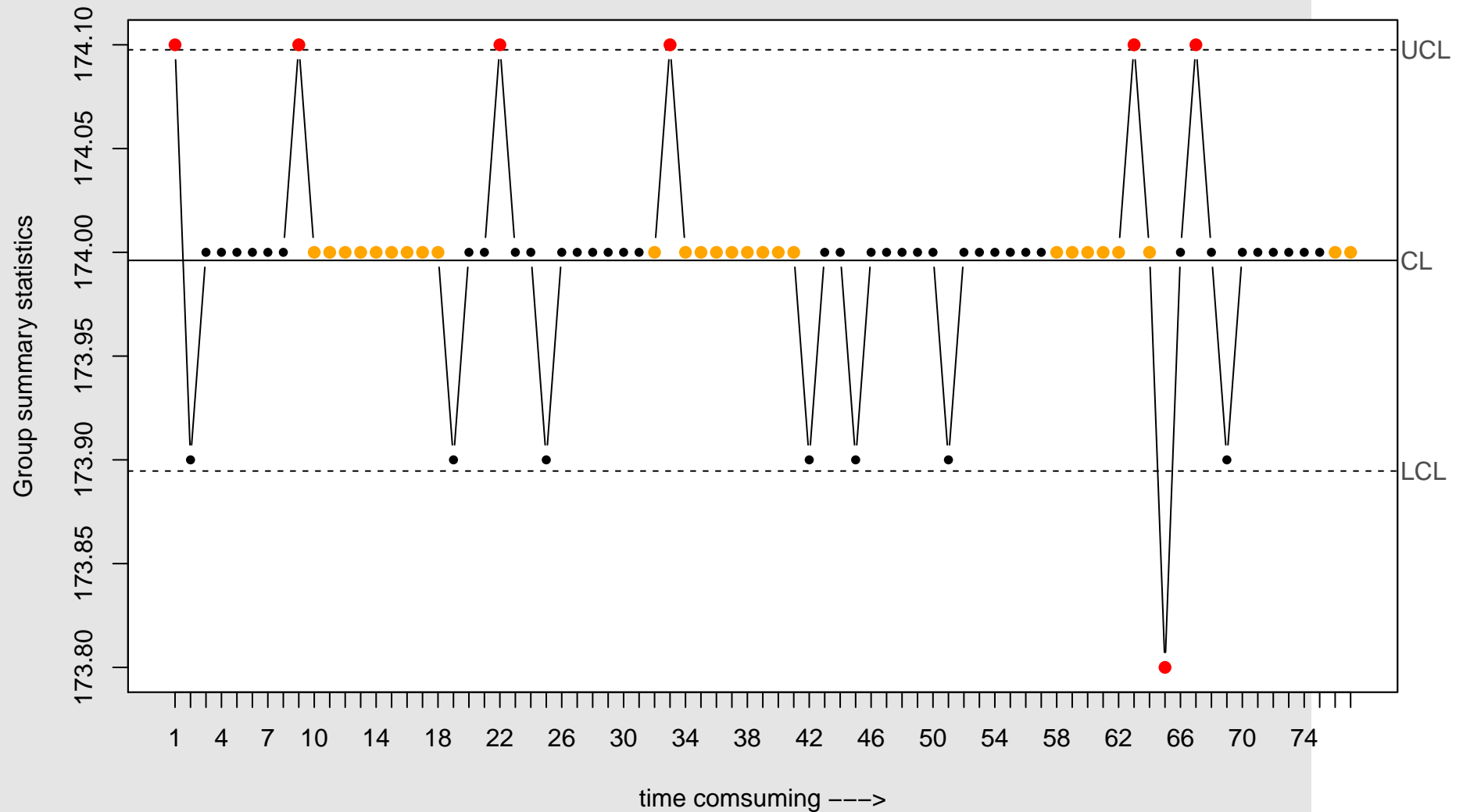
LCL = 165

UCL = 175

Number beyond limits = 0

Number violating runs = 71

1th column point of this product

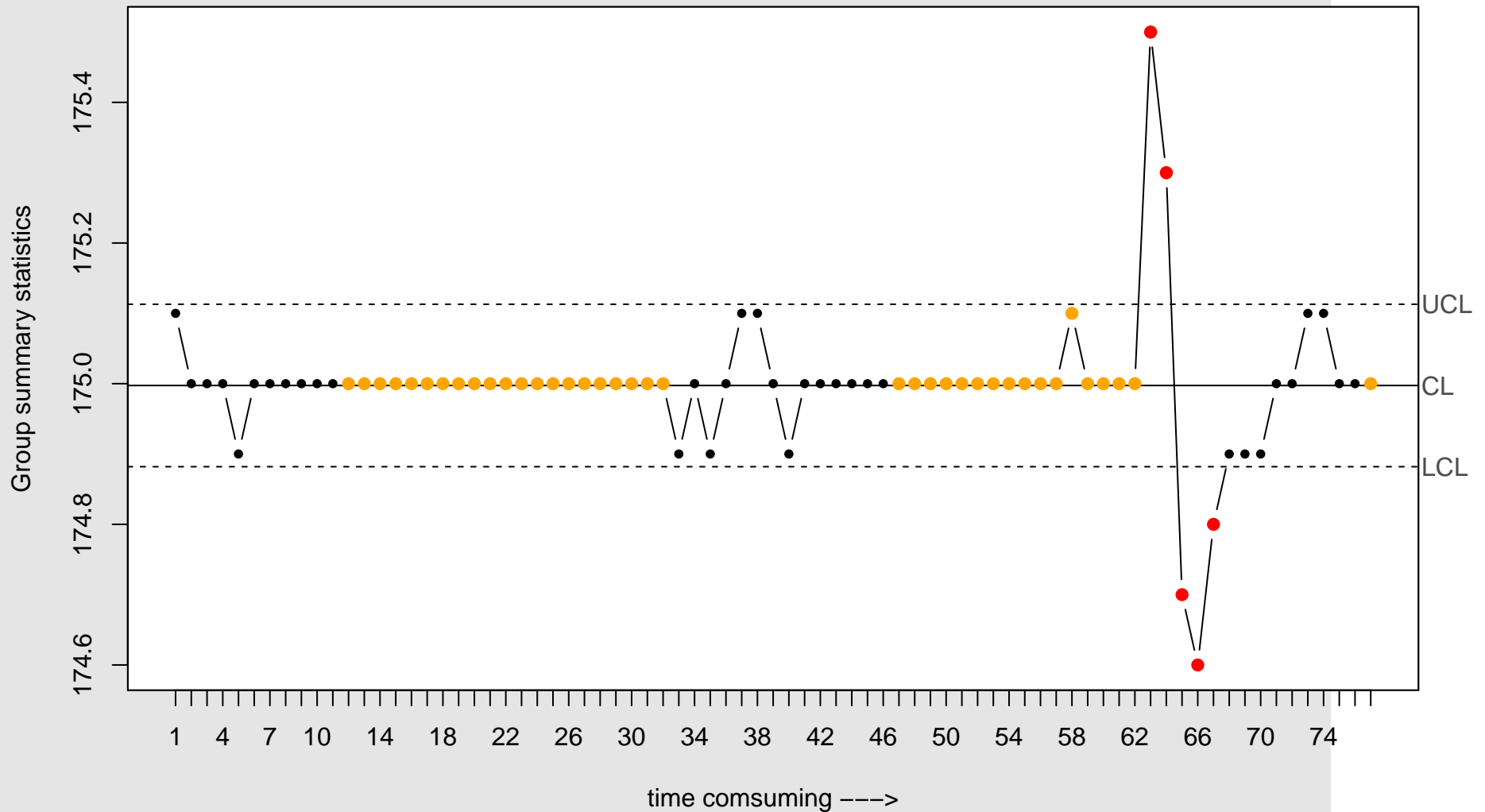


Number of groups = 77
Center = 173.9961
StdDev = 0.03382792

LCL = 173.8946
UCL = 174.0976

Number beyond limits = 7
Number violating runs = 29

2th column point of this product

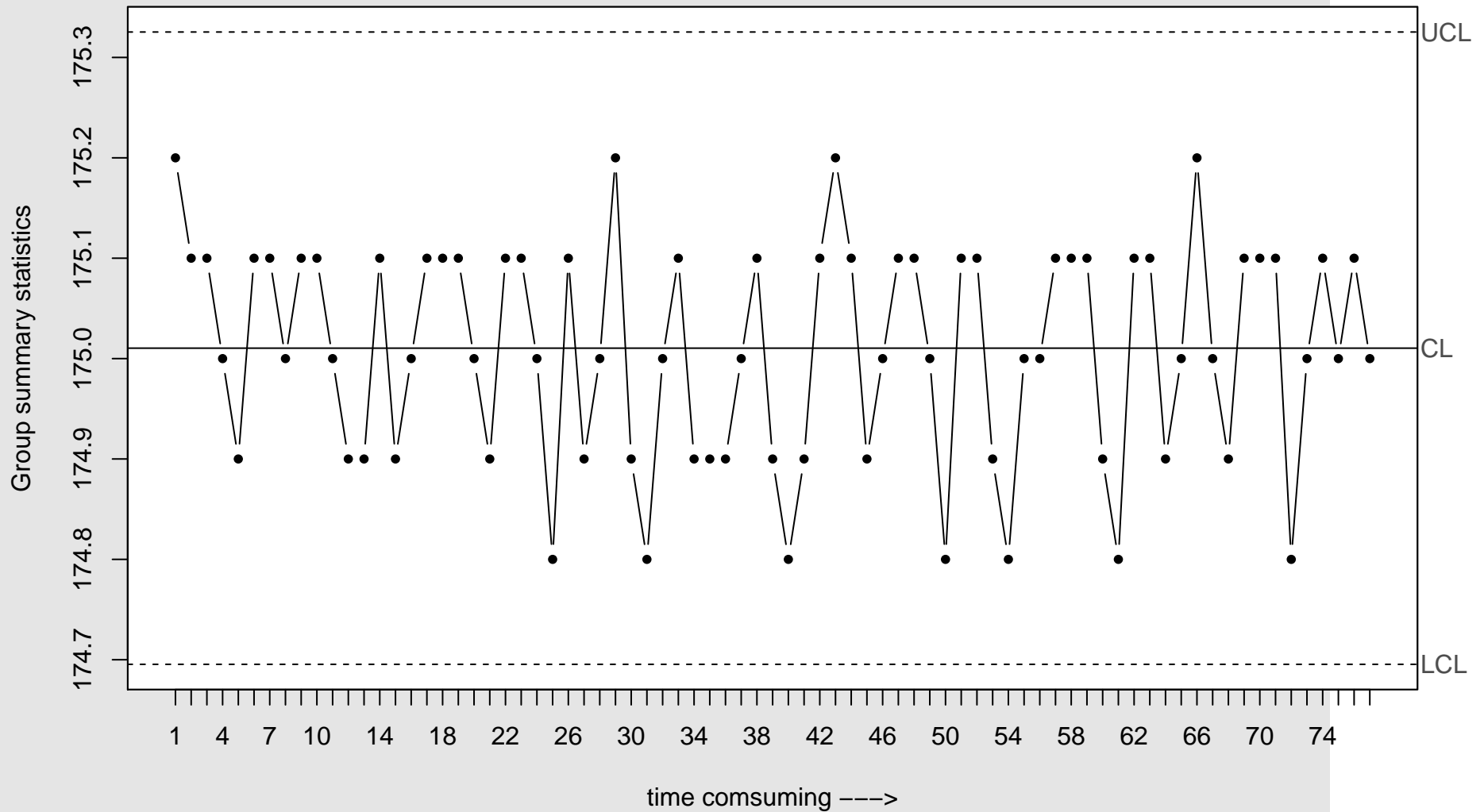


Number of groups = 77
Center = 174.9974
StdDev = 0.03849384

LCL = 174.8819
UCL = 175.1129

Number beyond limits = 5
Number violating runs = 40

3th column point of this product



Number of groups = 77

Center = 175.0104

StdDev = 0.1049832

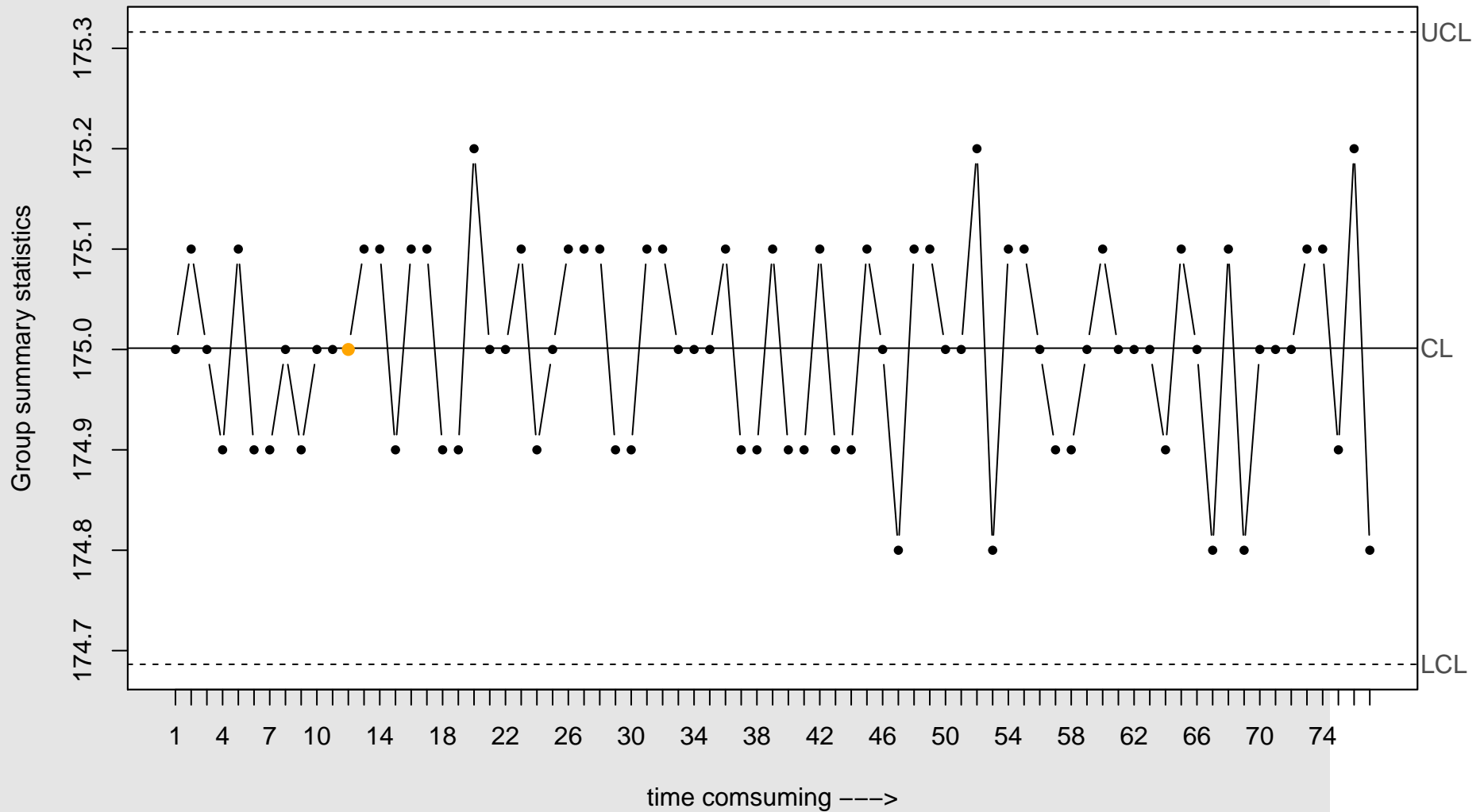
LCL = 174.6954

UCL = 175.3253

Number beyond limits = 0

Number violating runs = 0

4th column point of this product



Number of groups = 77

Center = 175.0013

StdDev = 0.1049832

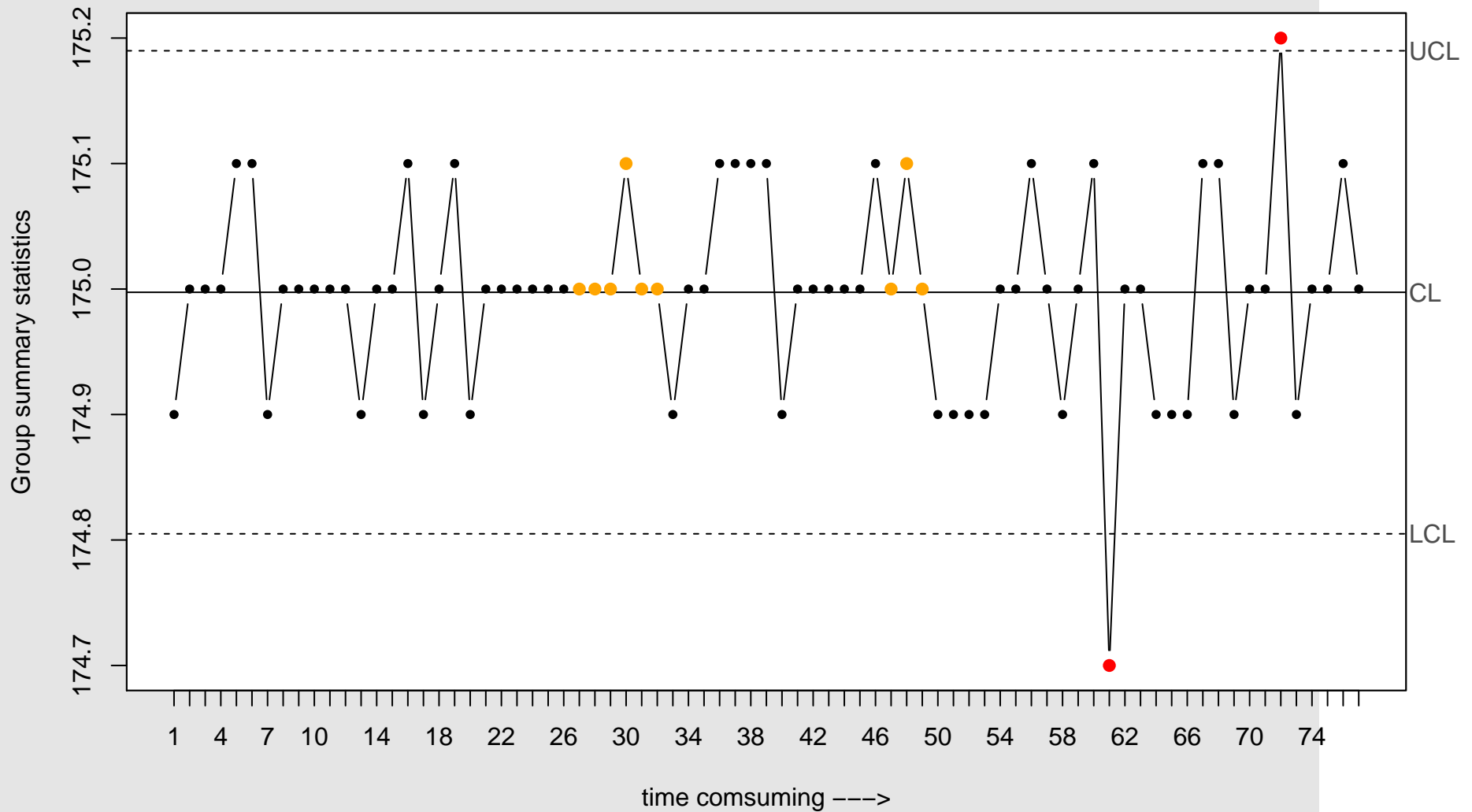
LCL = 174.6863

UCL = 175.3162

Number beyond limits = 0

Number violating runs = 1

5th column point of this product



Number of groups = 77

Center = 174.9974

StdDev = 0.0641564

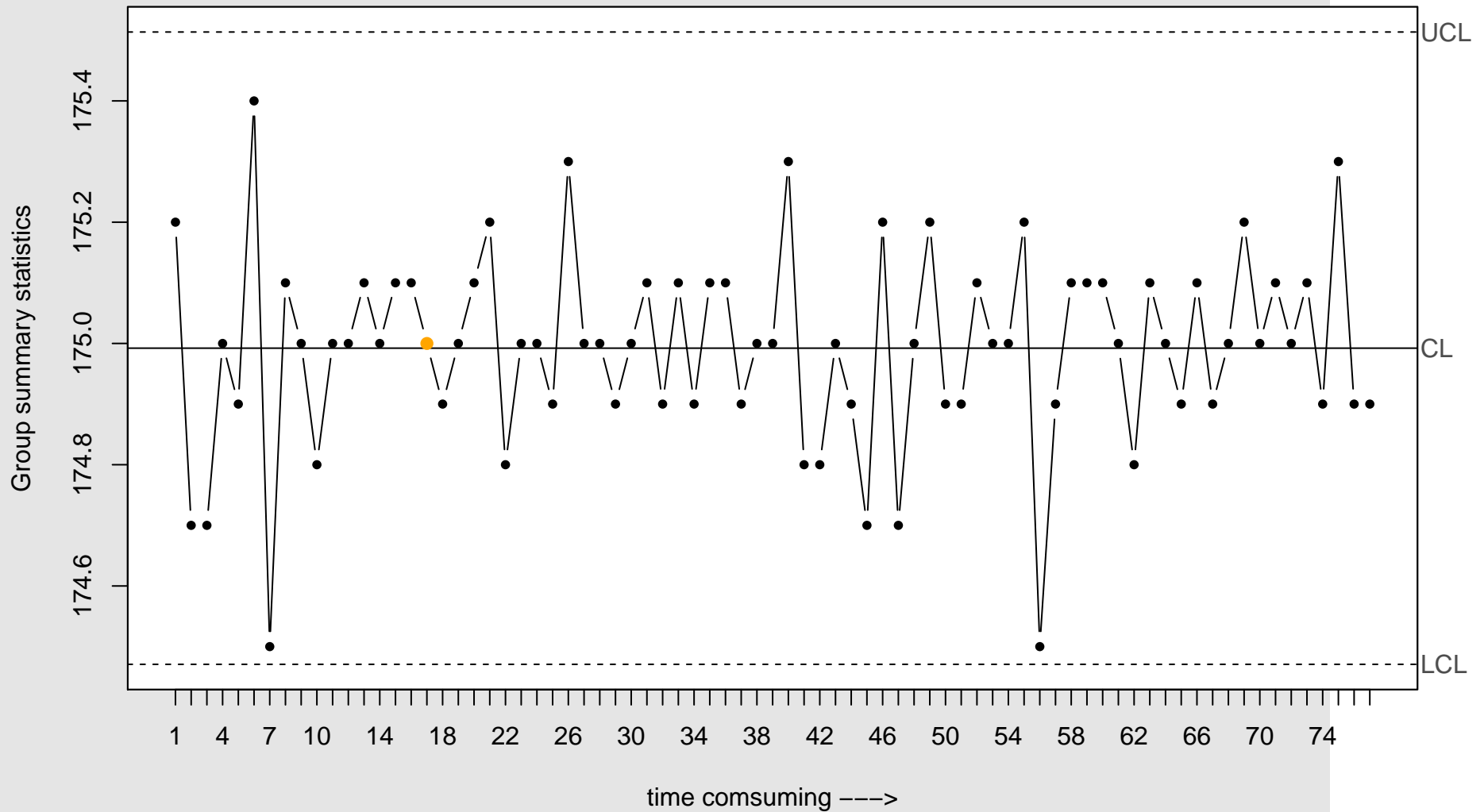
LCL = 174.8049

UCL = 175.1899

Number beyond limits = 2

Number violating runs = 9

6th column point of this product



Number of groups = 77

Center = 174.9922

StdDev = 0.1738055

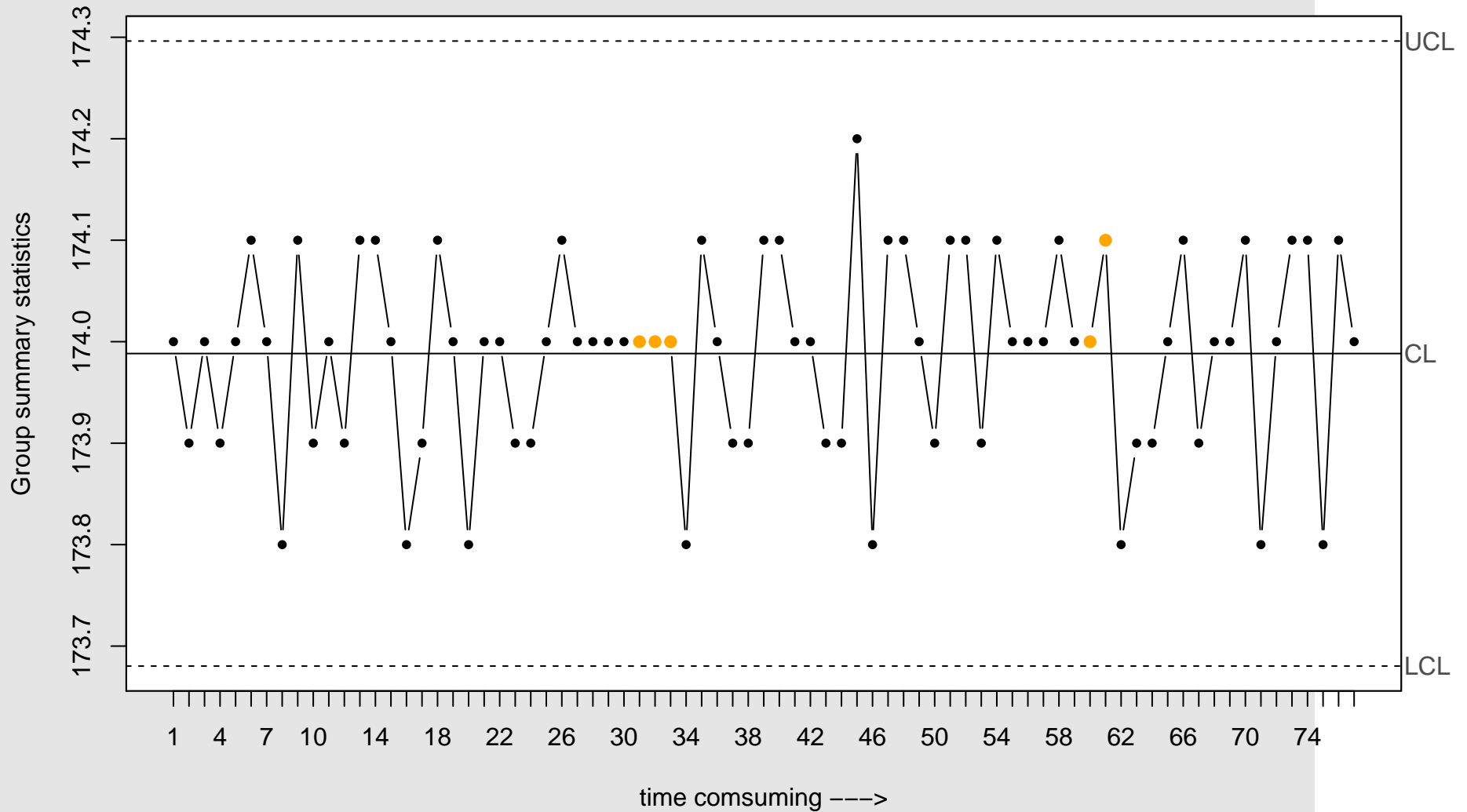
LCL = 174.4708

UCL = 175.5136

Number beyond limits = 0

Number violating runs = 1

7th column point of this product



Number of groups = 77

Center = 173.9883

StdDev = 0.1026502

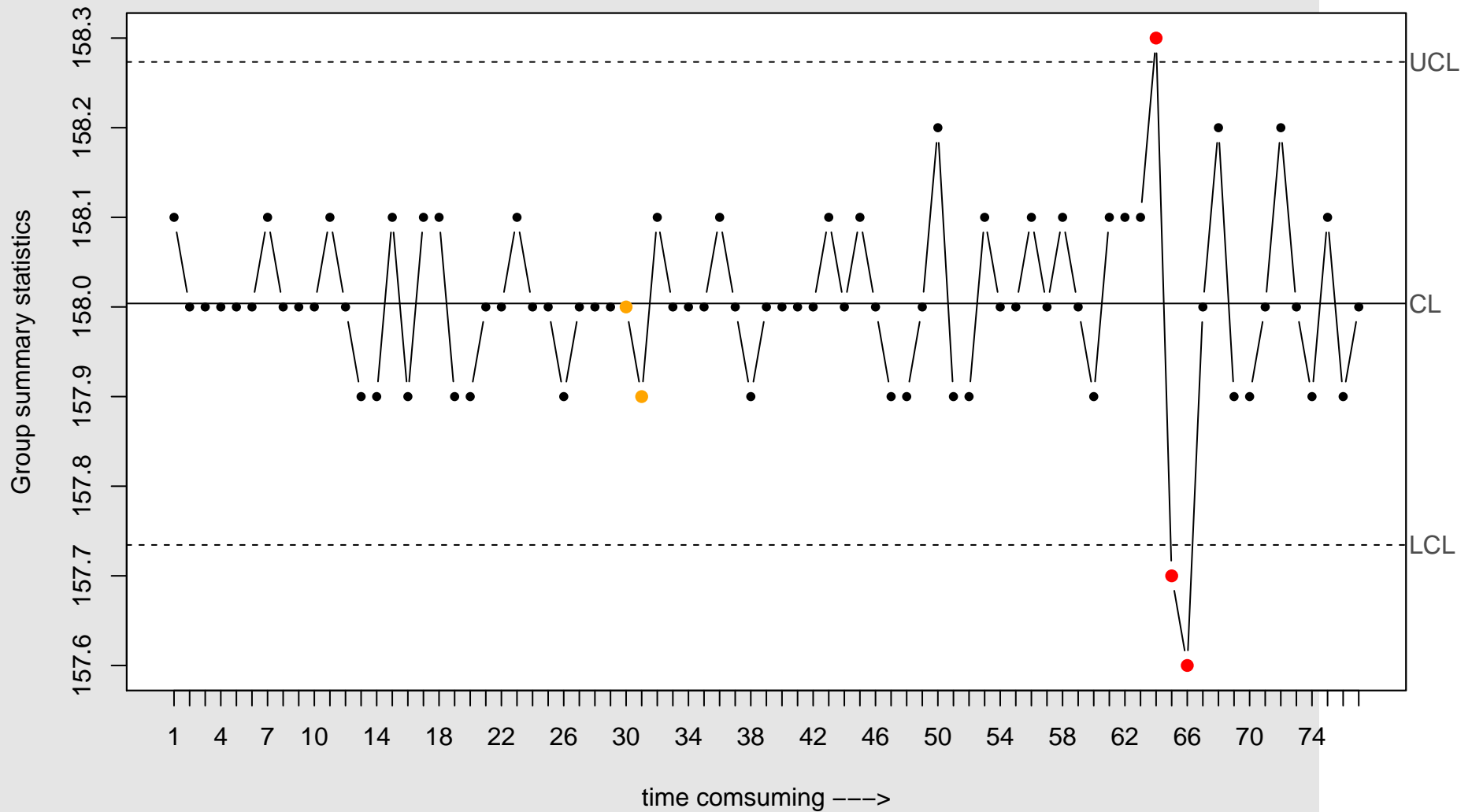
LCL = 173.6804

UCL = 174.2963

Number beyond limits = 0

Number violating runs = 5

8th column point of this product

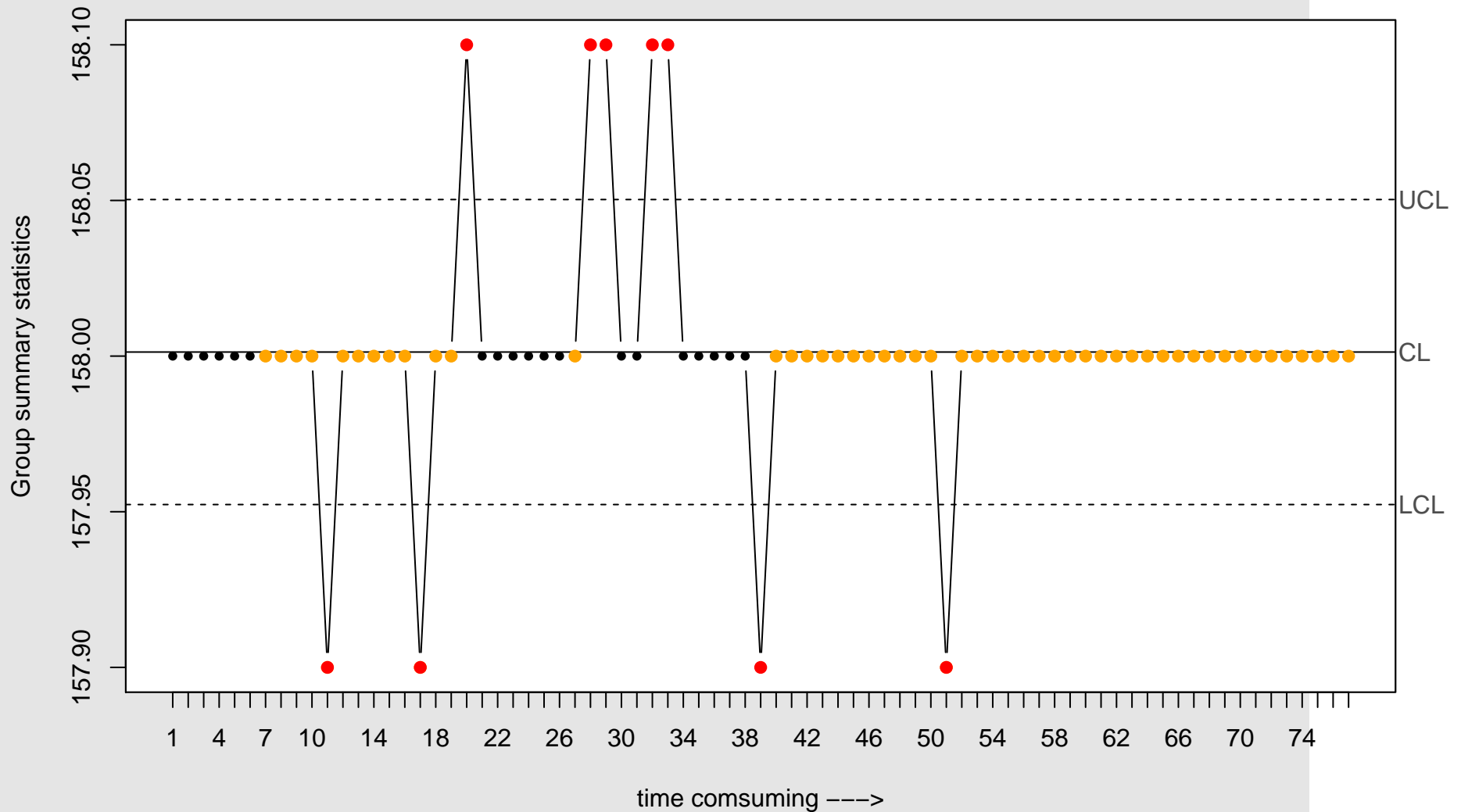


Number of groups = 77
Center = 158.0039
StdDev = 0.08981896

LCL = 157.7344
UCL = 158.2734

Number beyond limits = 3
Number violating runs = 2

9th column point of this product

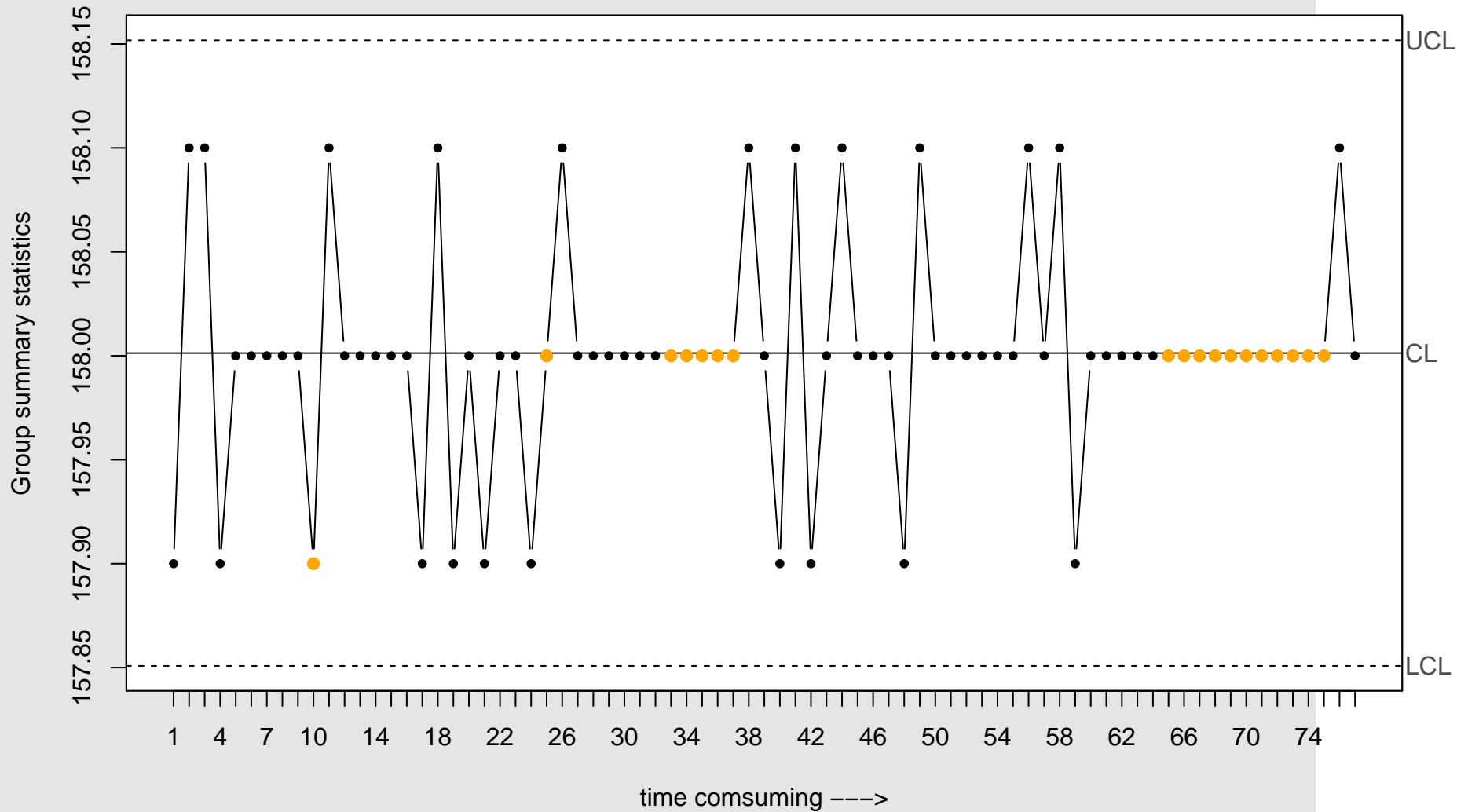


Number of groups = 77
Center = 158.0013
StdDev = 0.01633072

LCL = 157.9523
UCL = 158.0503

Number beyond limits = 9
Number violating runs = 52

10th column point of this product

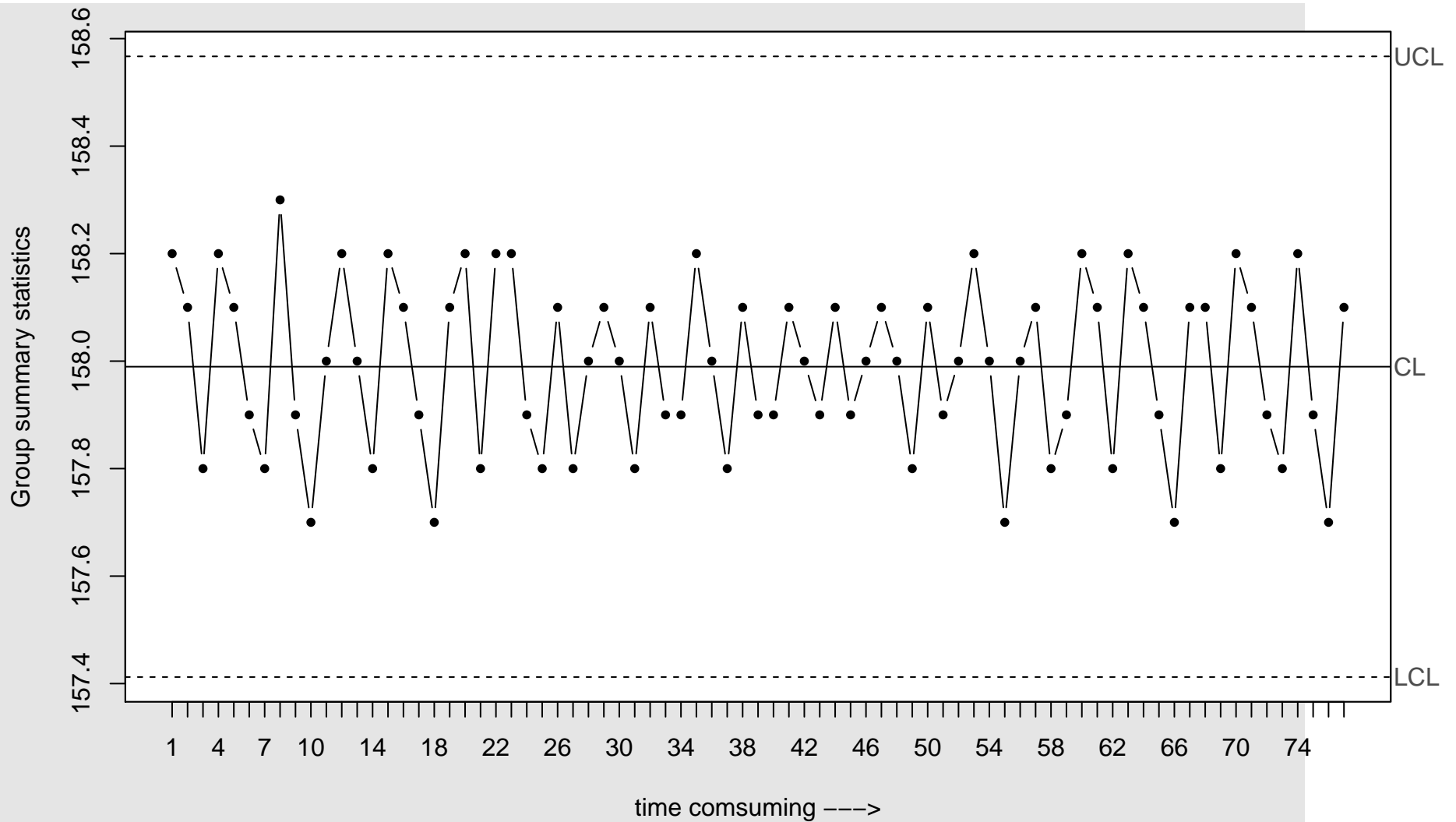


Number of groups = 77
Center = 158.0013
StdDev = 0.05015864

LCL = 157.8508
UCL = 158.1518

Number beyond limits = 0
Number violating runs = 18

11th column point of this product



Number of groups = 77

Center = 157.9896

StdDev = 0.1924692

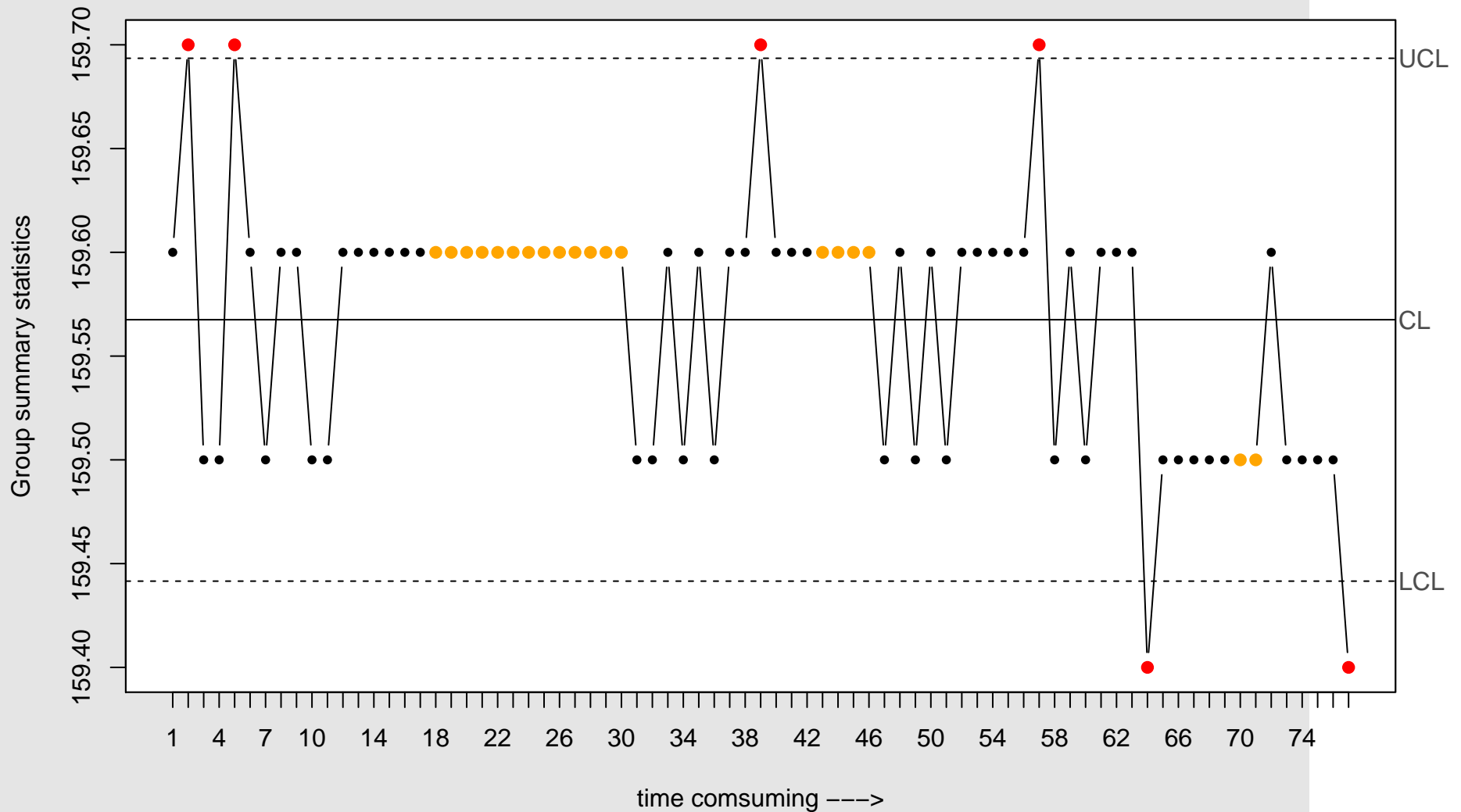
LCL = 157.4122

UCL = 158.567

Number beyond limits = 0

Number violating runs = 0

12th column point of this product

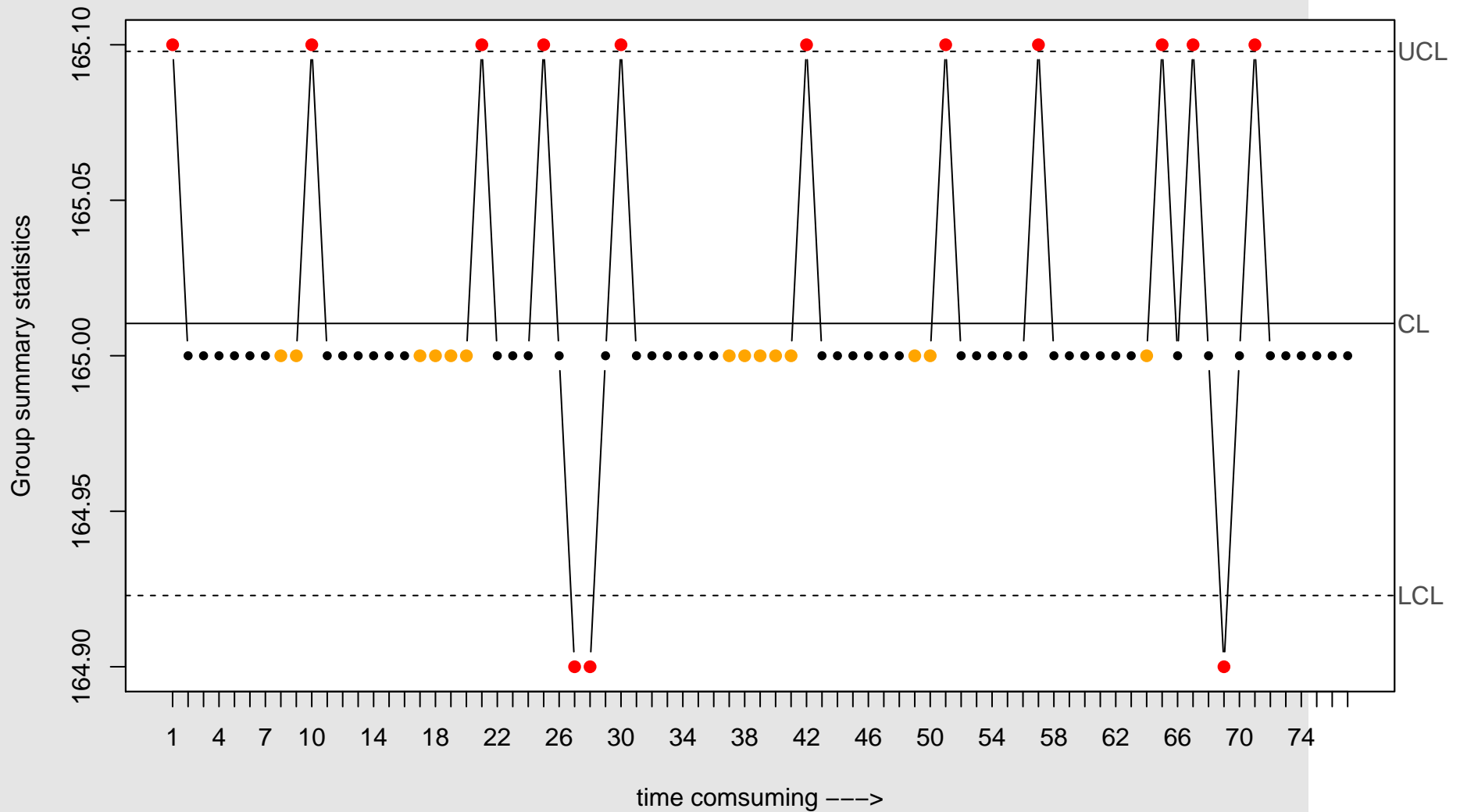


Number of groups = 77
 Center = 159.5675
 StdDev = 0.04199328

LCL = 159.4416
 UCL = 159.6935

Number beyond limits = 6
 Number violating runs = 19

13th column point of this product



Number of groups = 77

Center = 165.0104

StdDev = 0.029162

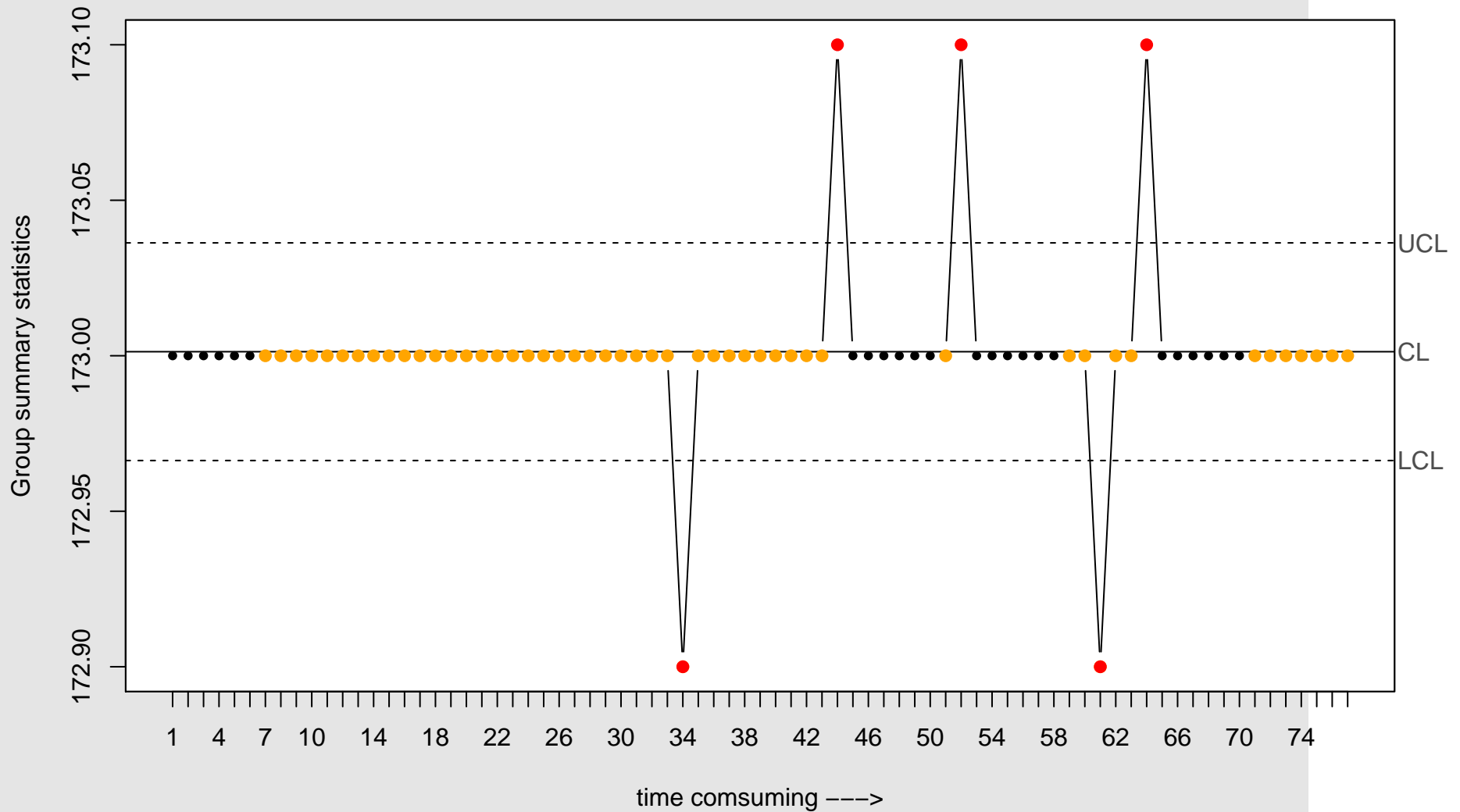
LCL = 164.9229

UCL = 165.0979

Number beyond limits = 14

Number violating runs = 14

14th column point of this product



Number of groups = 77

Center = 173.0013

StdDev = 0.0116648

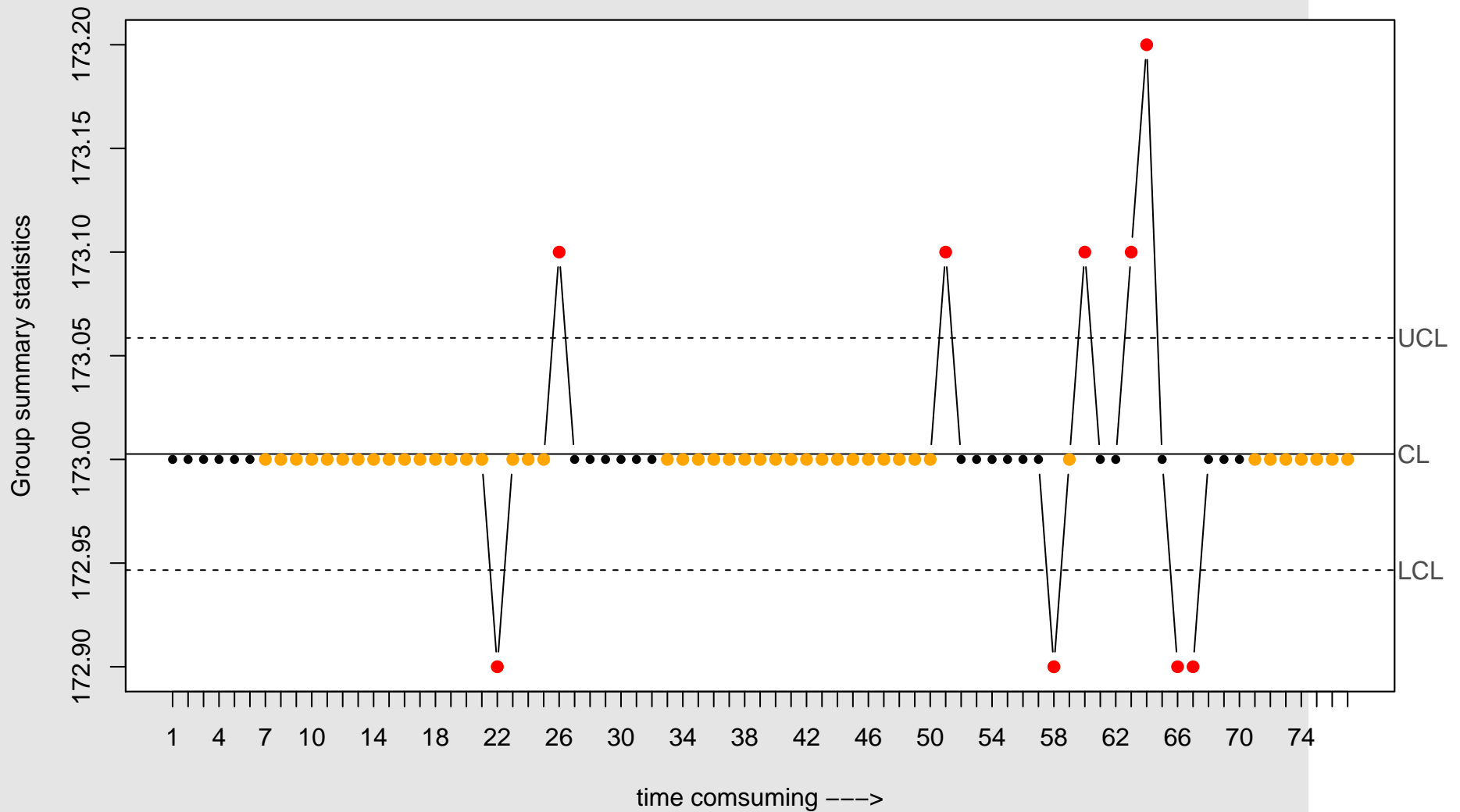
LCL = 172.9663

UCL = 173.0363

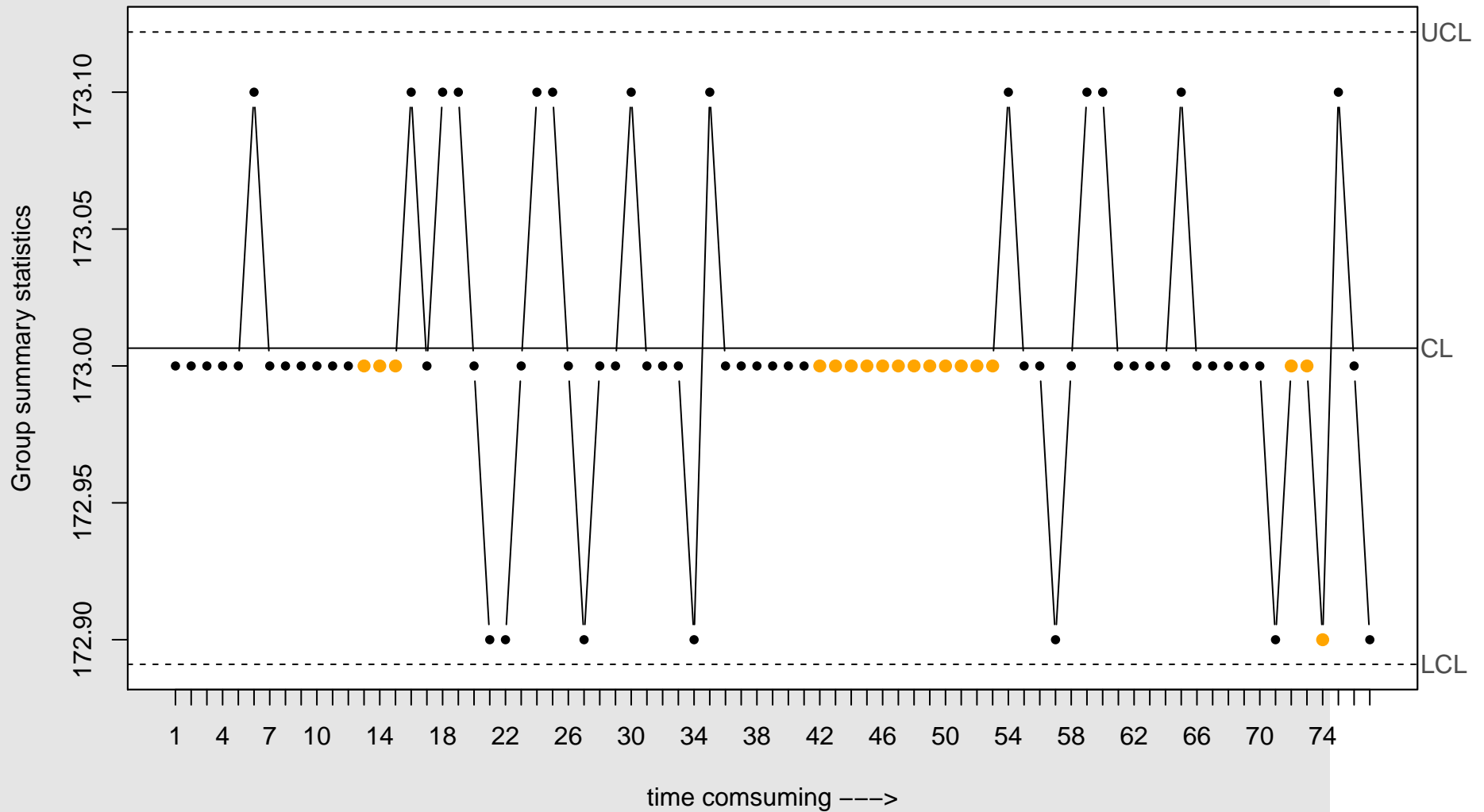
Number beyond limits = 5

Number violating runs = 50

15th column point of this product



16th column point of this product

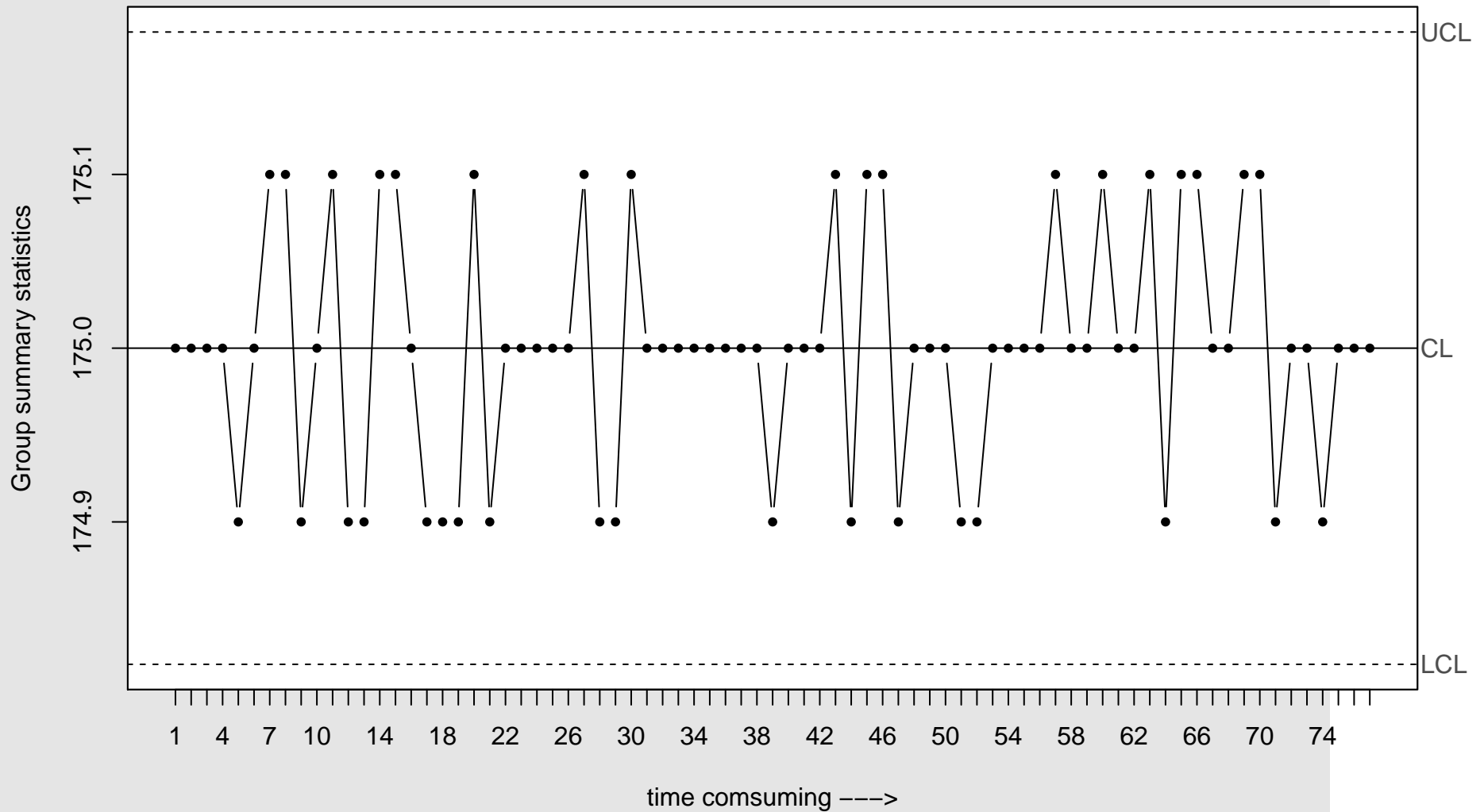


Number of groups = 77
 Center = 173.0065
 StdDev = 0.03849384

LCL = 172.891
 UCL = 173.122

Number beyond limits = 0
 Number violating runs = 18

17th column point of this product



Number of groups = 77

Center = 175

StdDev = 0.06065696

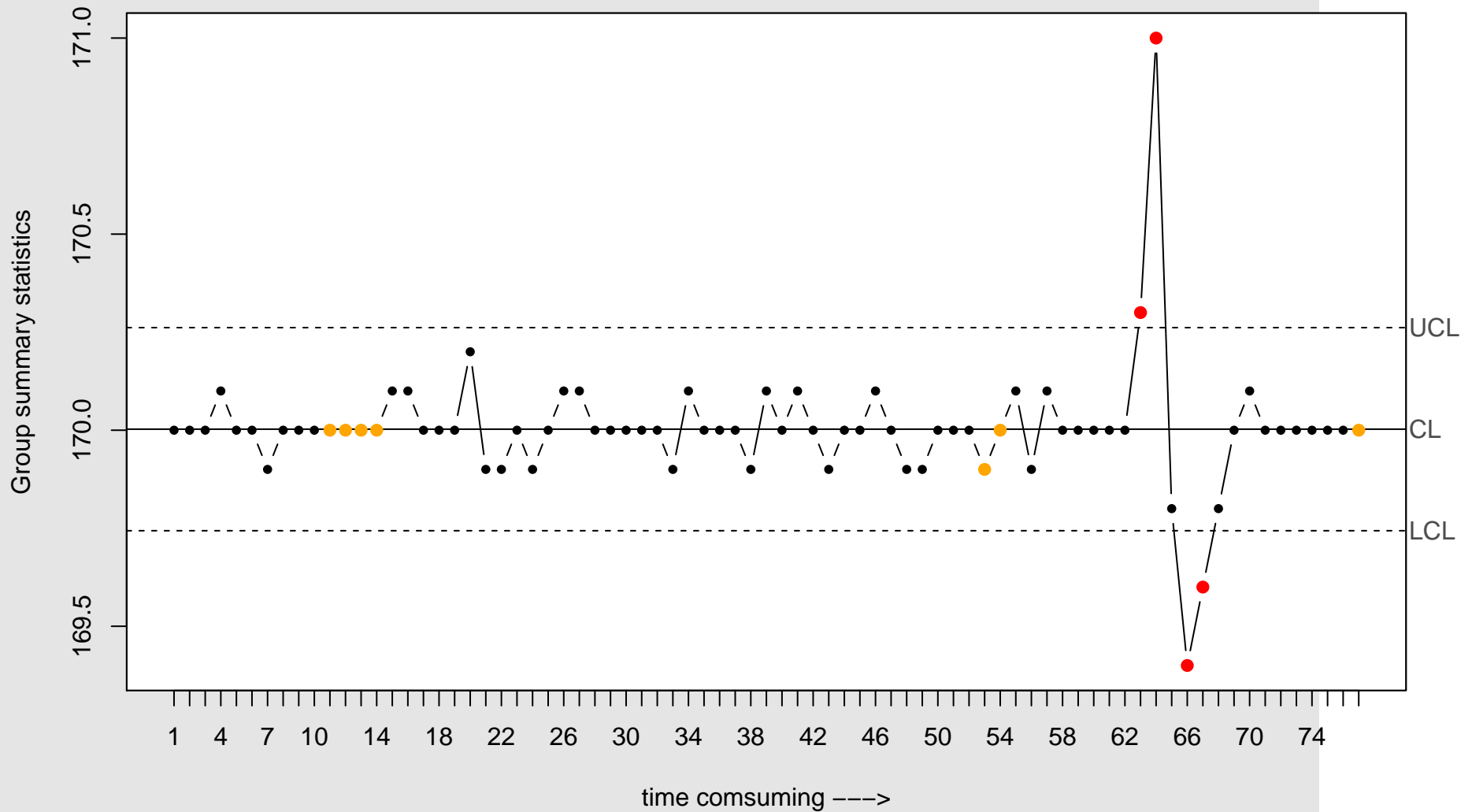
LCL = 174.818

UCL = 175.182

Number beyond limits = 0

Number violating runs = 0

18th column point of this product



Number of groups = 77
Center = 170.0026
StdDev = 0.08631952

LCL = 169.7436
UCL = 170.2616

Number beyond limits = 4
Number violating runs = 7