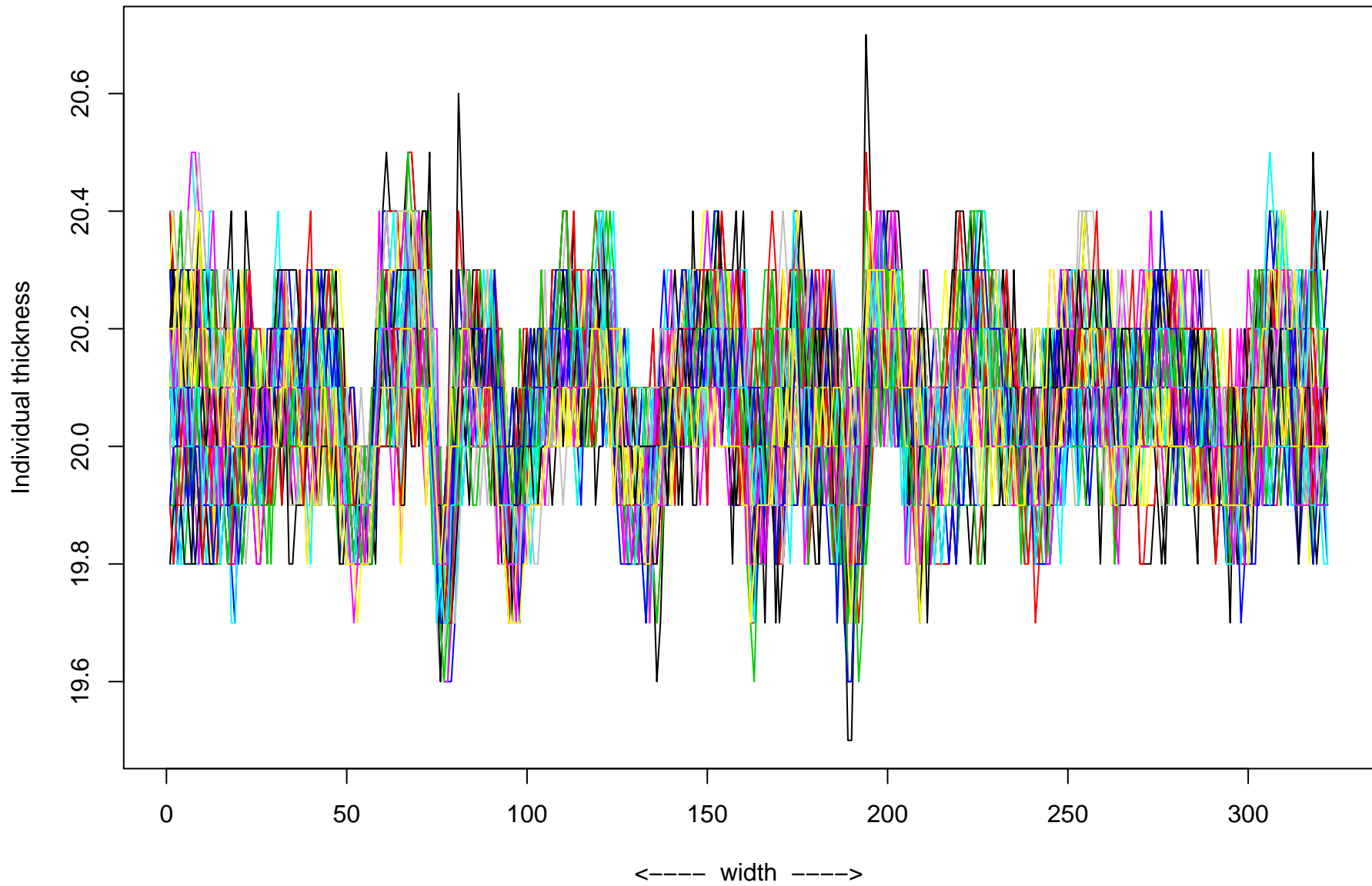
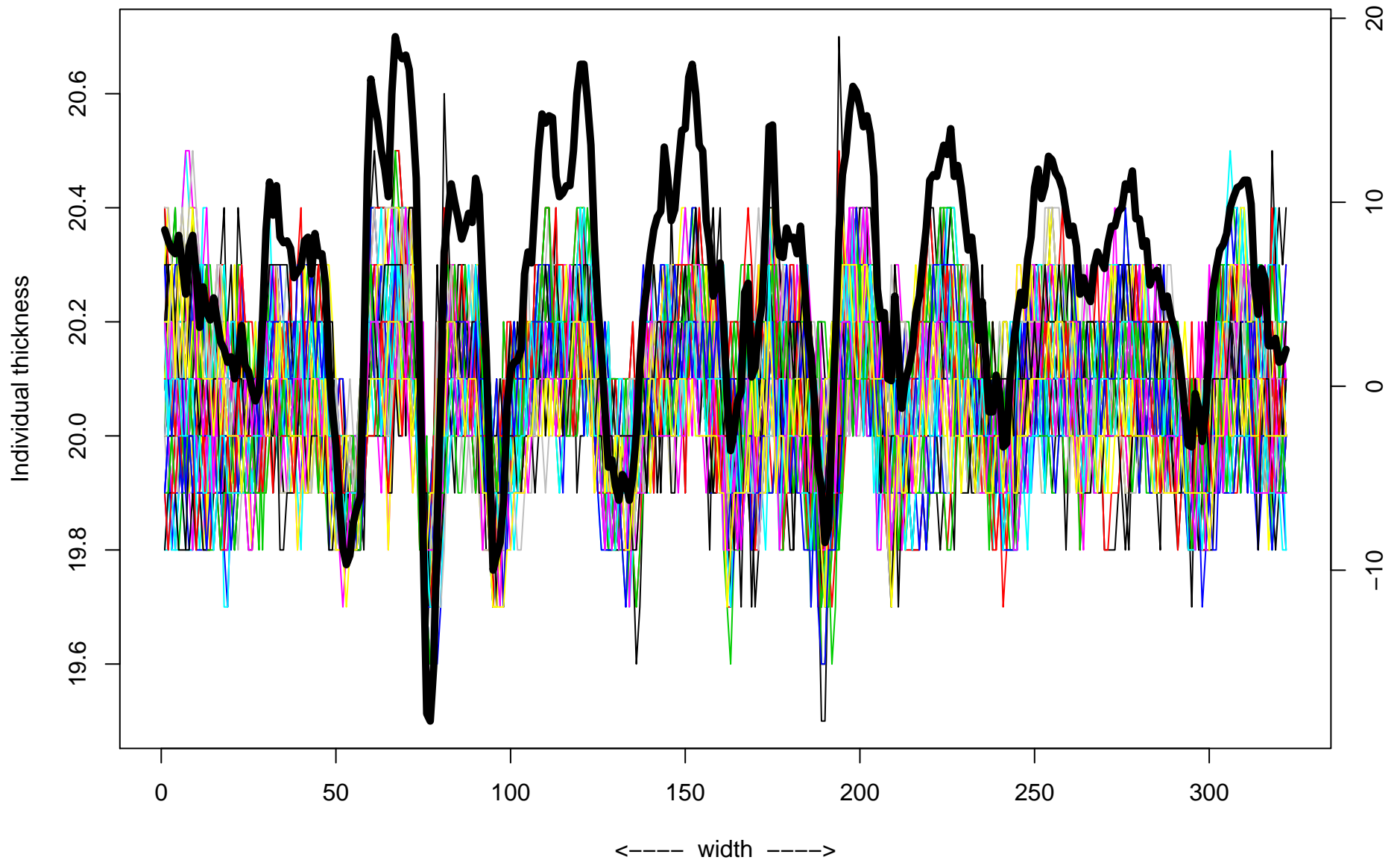


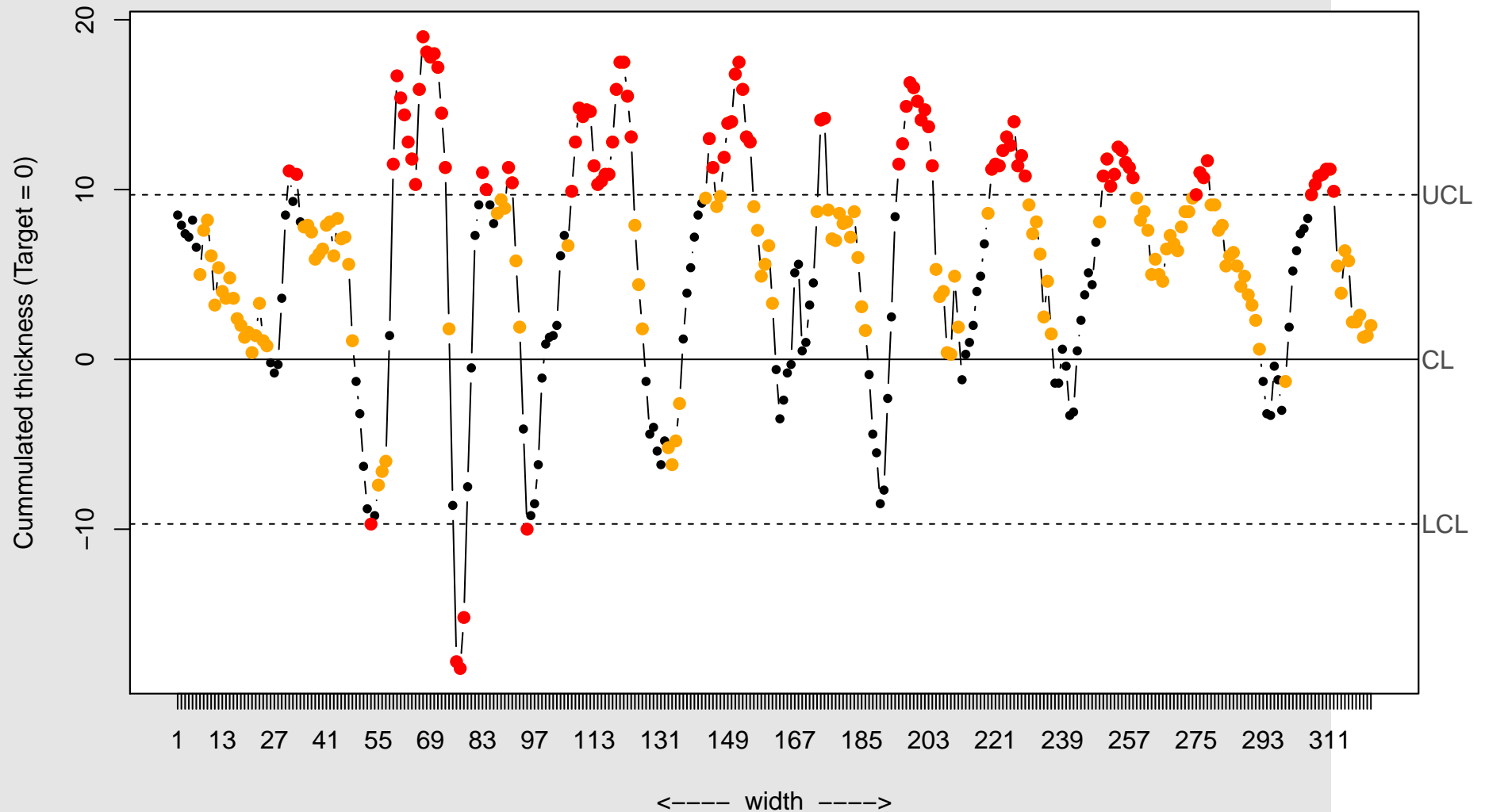
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 322

Center = 0

StdDev = 1.615353

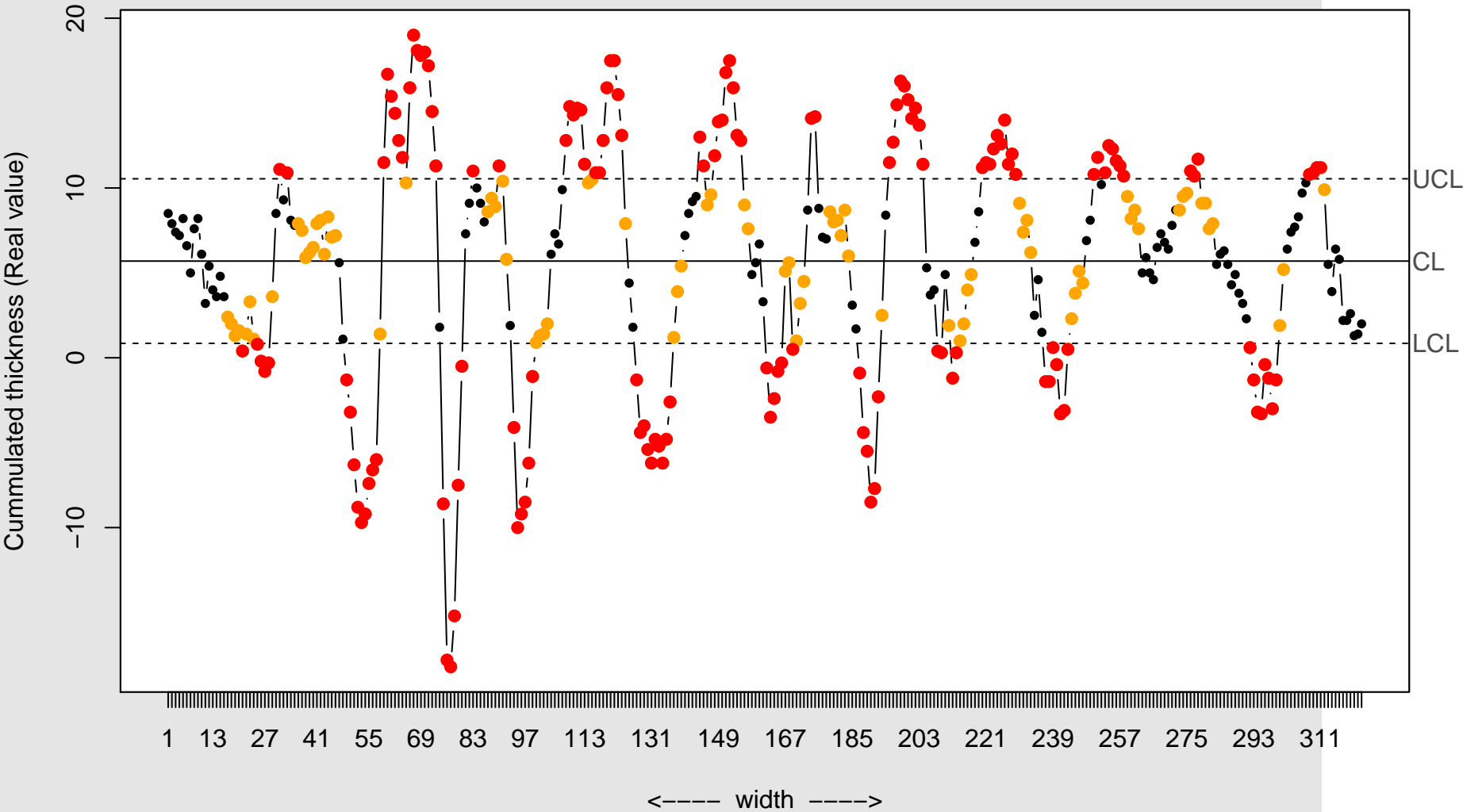
LCL = -9.692119

UCL = 9.692119

Number beyond limits = 95

Number violating runs = 205

Simulated thickness: Cpk is 1.387 and z is 2.661.

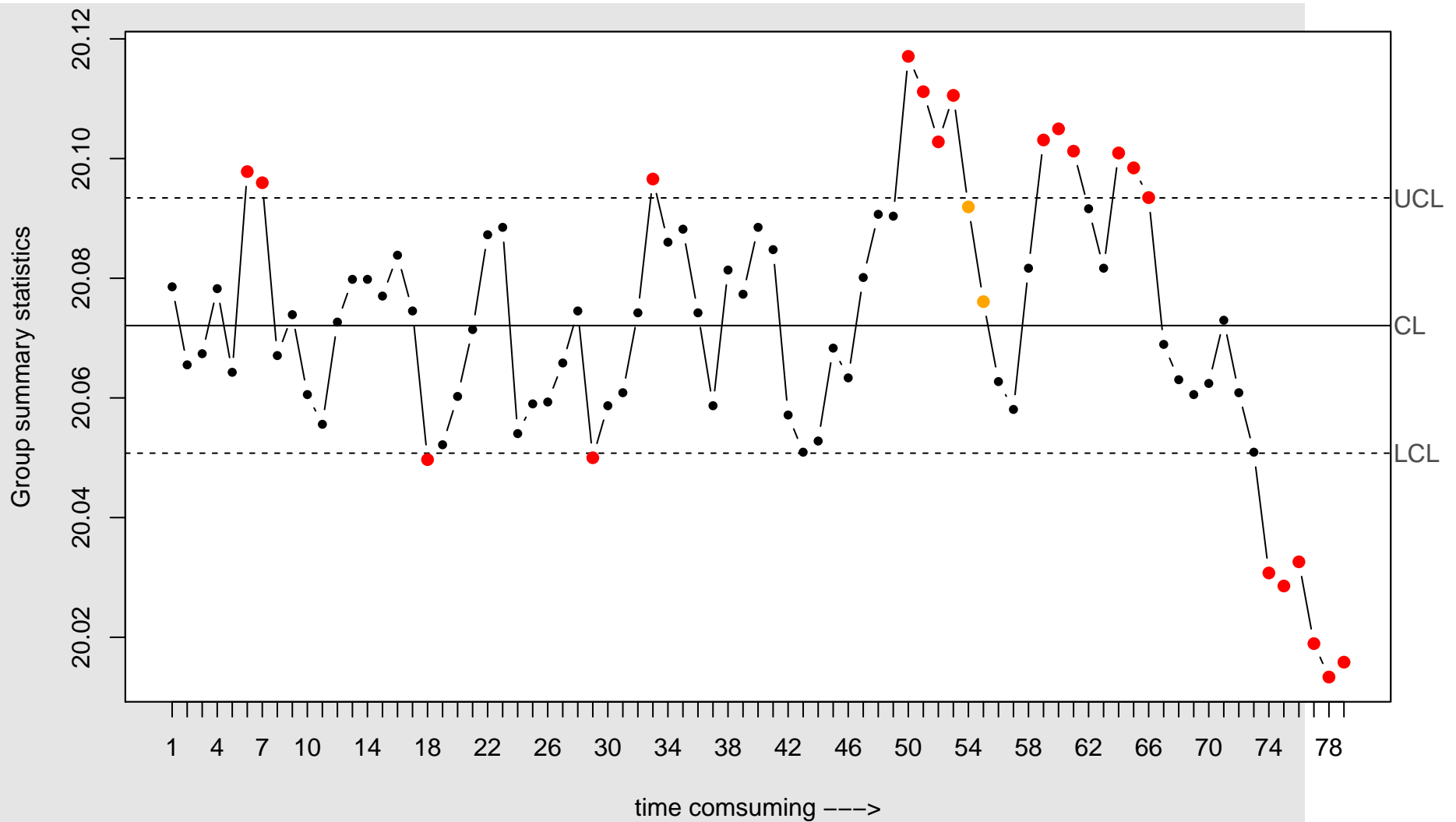


Number of groups = 322
Center = 5.695342
StdDev = 1.615353

LCL = 0.8492821
UCL = 10.5414

Number beyond limits = 146
Number violating runs = 166

X-bar chart for a given dataset

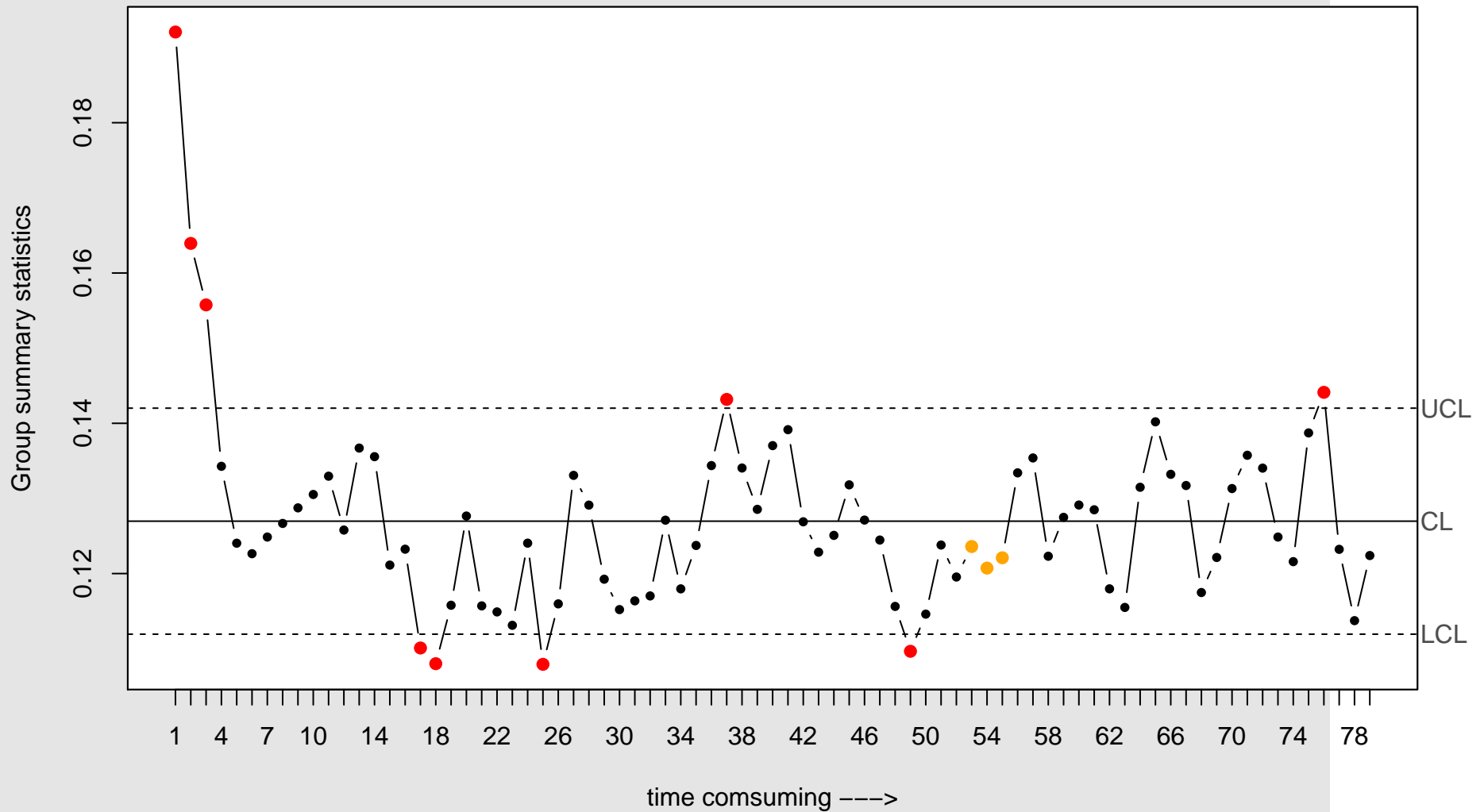


Number of groups = 79
Center = 20.07209
StdDev = 0.1275715

LCL = 20.05077
UCL = 20.09342

Number beyond limits = 21
Number violating runs = 8

S chart for a given dataset

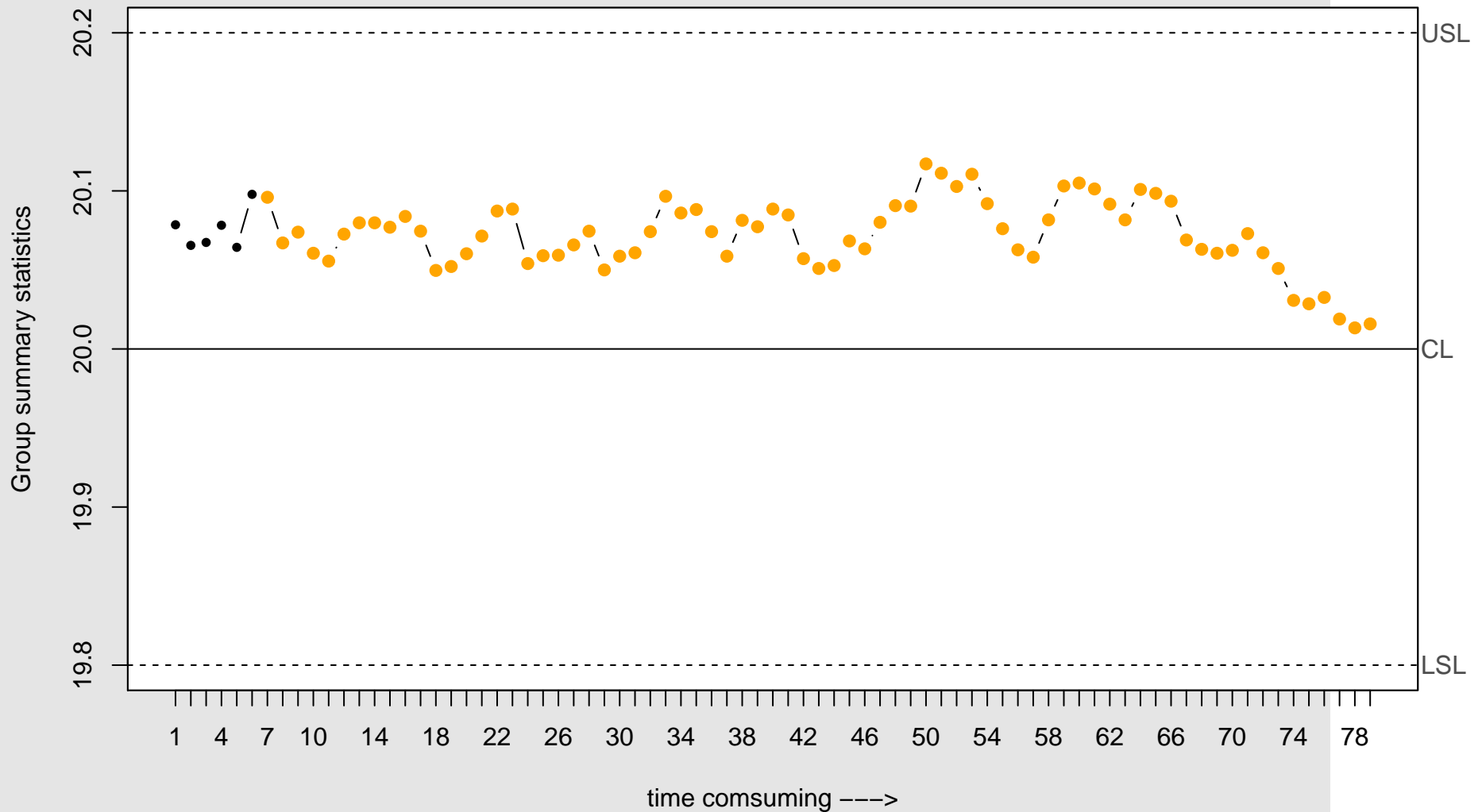


Number of groups = 79
Center = 0.1269739
StdDev = 0.1270728

LCL = 0.1119342
UCL = 0.1420135

Number beyond limits = 9
Number violating runs = 3

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



Number of groups = 79

Center = 20

StdDev = 0.1275715

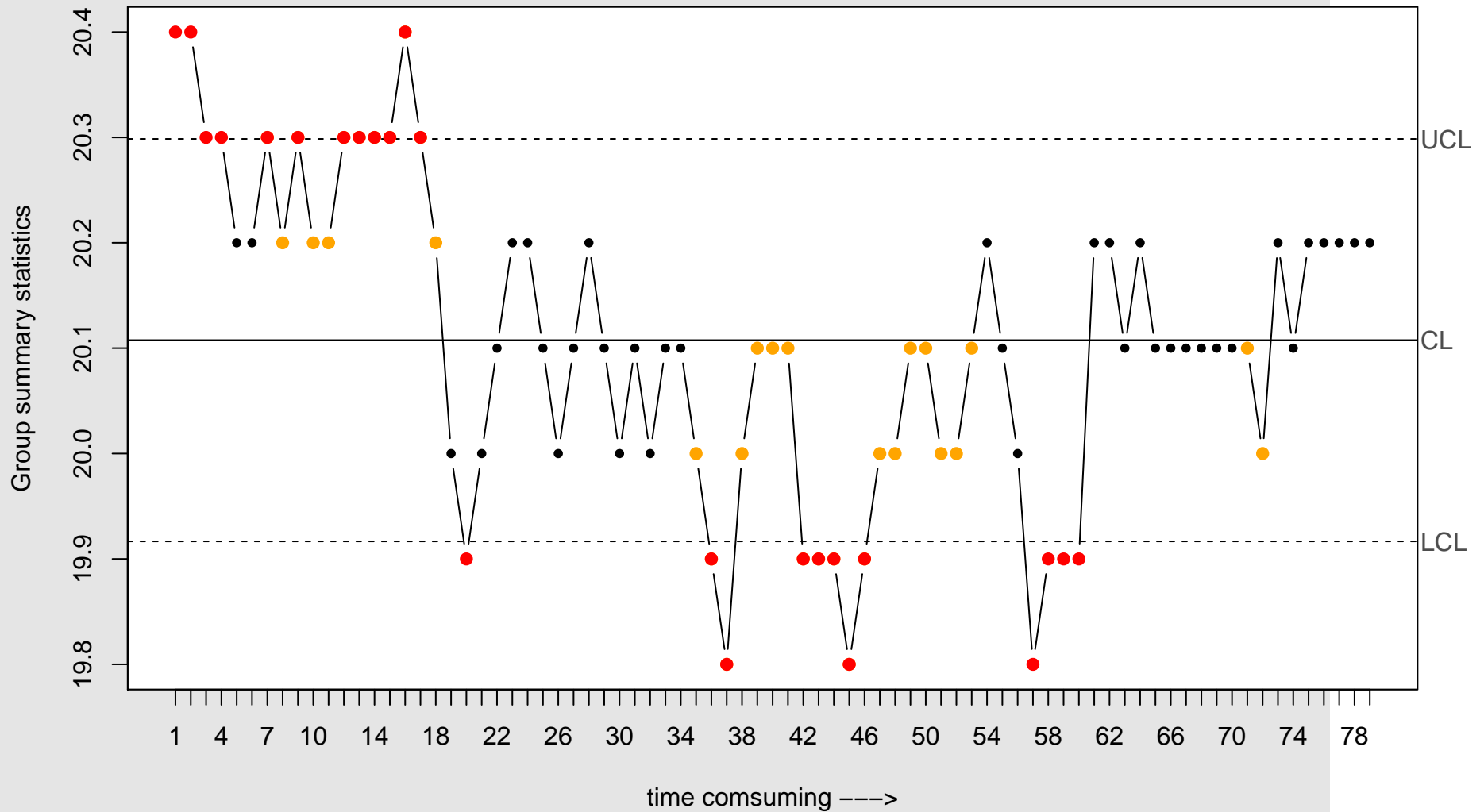
LCL = 19.8

UCL = 20.2

Number beyond limits = 0

Number violating runs = 73

1th column point of this product

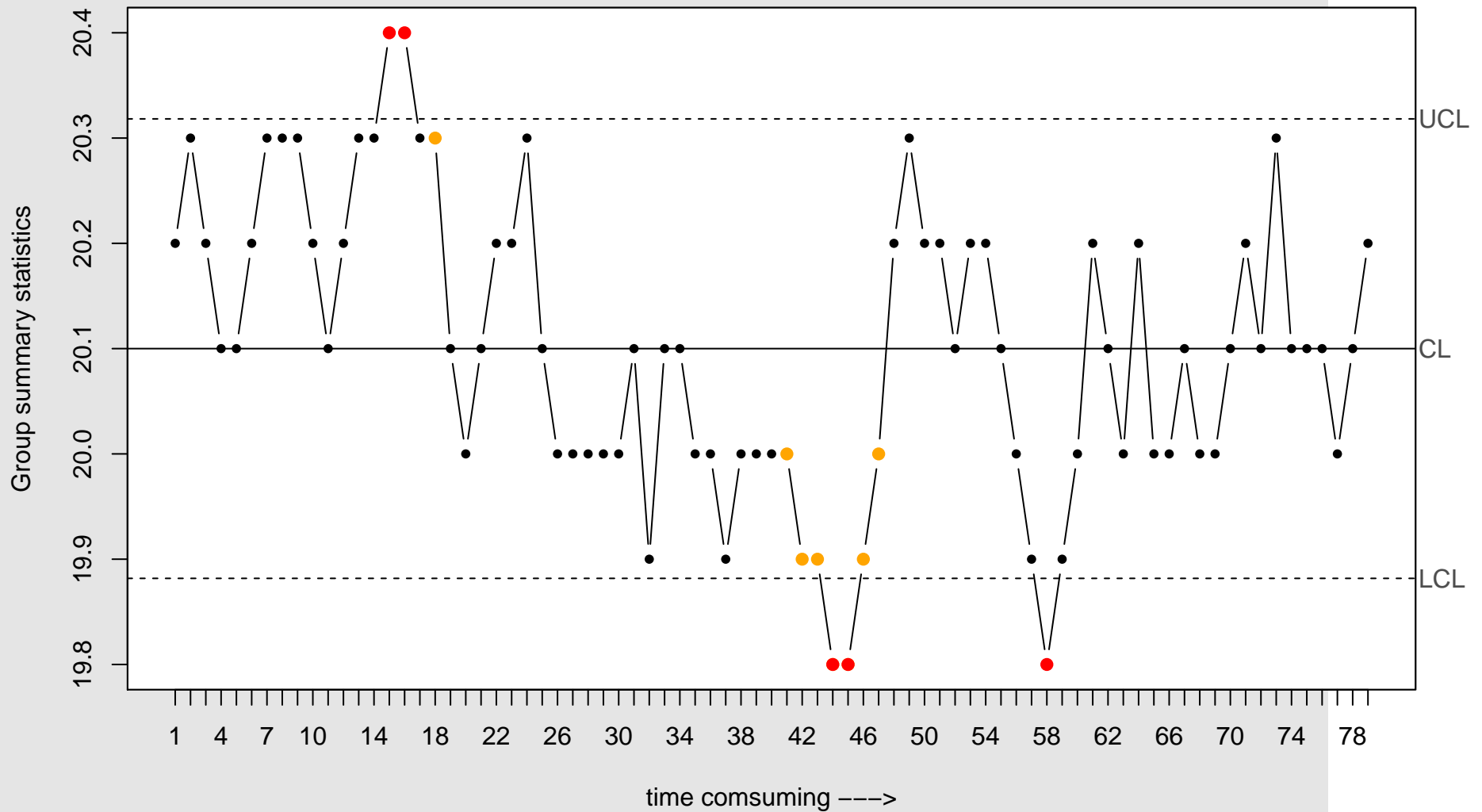


Number of groups = 79
Center = 20.10759
StdDev = 0.06364794

LCL = 19.91665
UCL = 20.29854

Number beyond limits = 24
Number violating runs = 33

2th column point of this product



Number of groups = 79

Center = 20.1

StdDev = 0.0727405

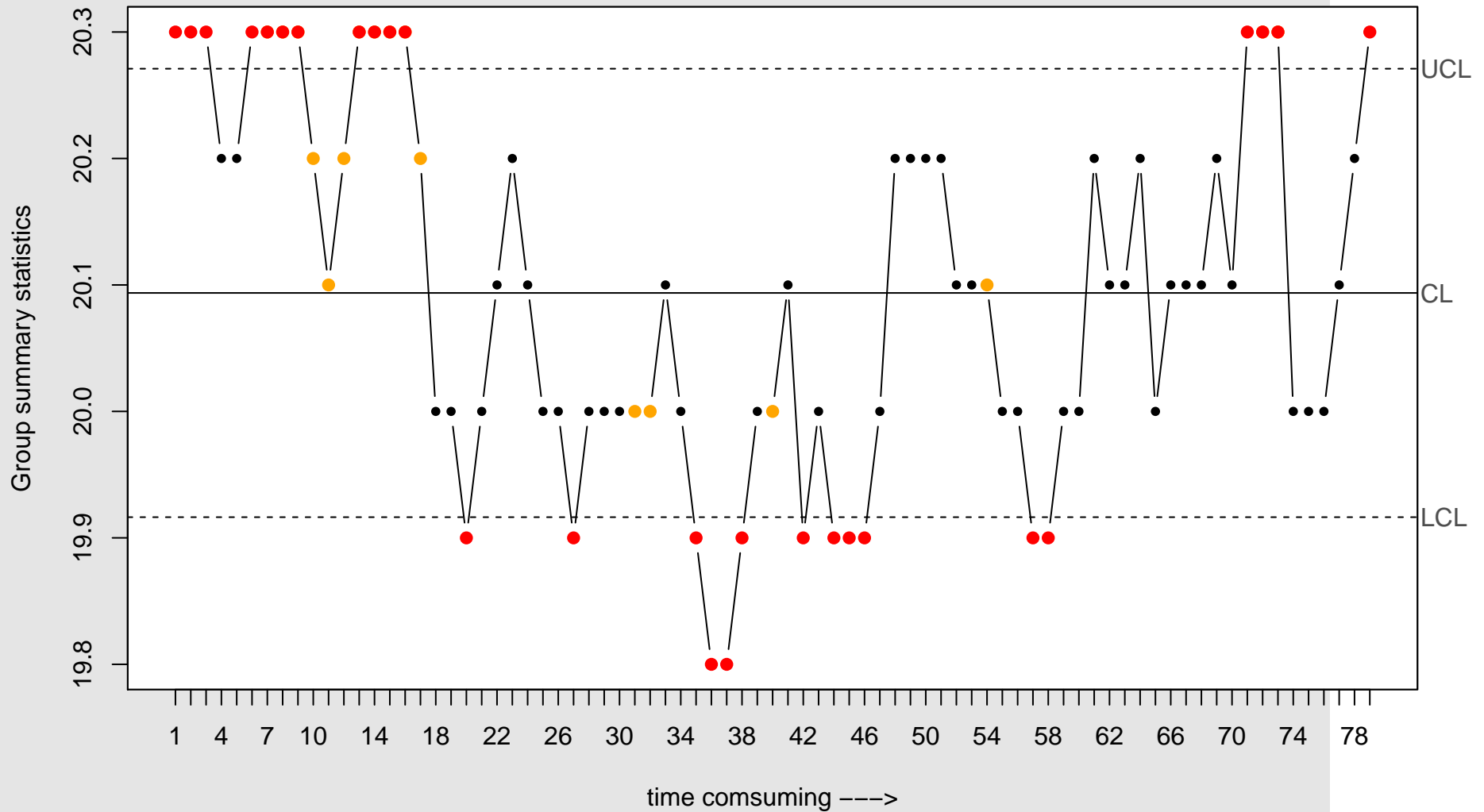
LCL = 19.88178

UCL = 20.31822

Number beyond limits = 5

Number violating runs = 8

3th column point of this product

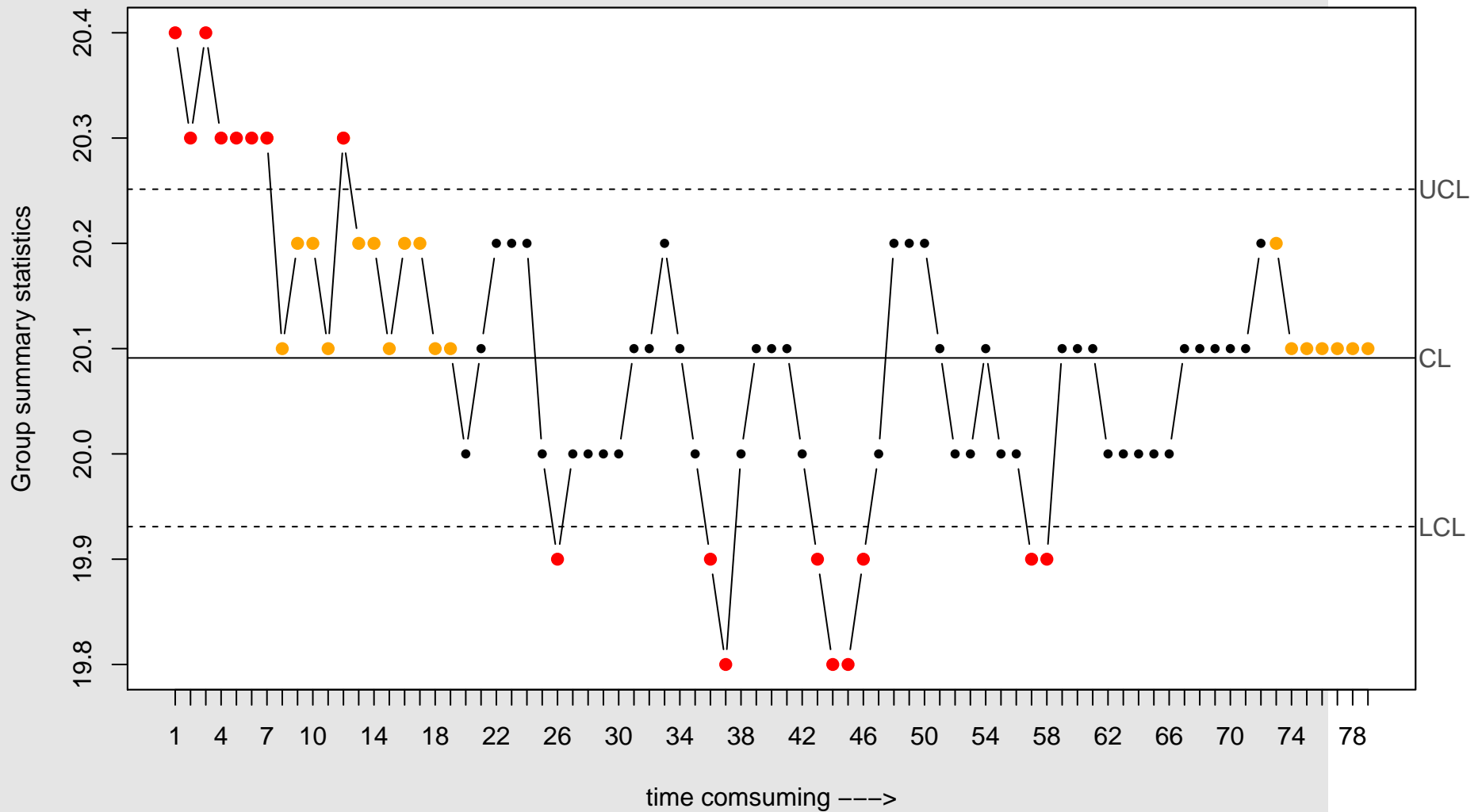


Number of groups = 79
 Center = 20.09367
 StdDev = 0.05910165

LCL = 19.91637
 UCL = 20.27098

Number beyond limits = 27
 Number violating runs = 17

4th column point of this product



Number of groups = 79

Center = 20.09114

StdDev = 0.0534188

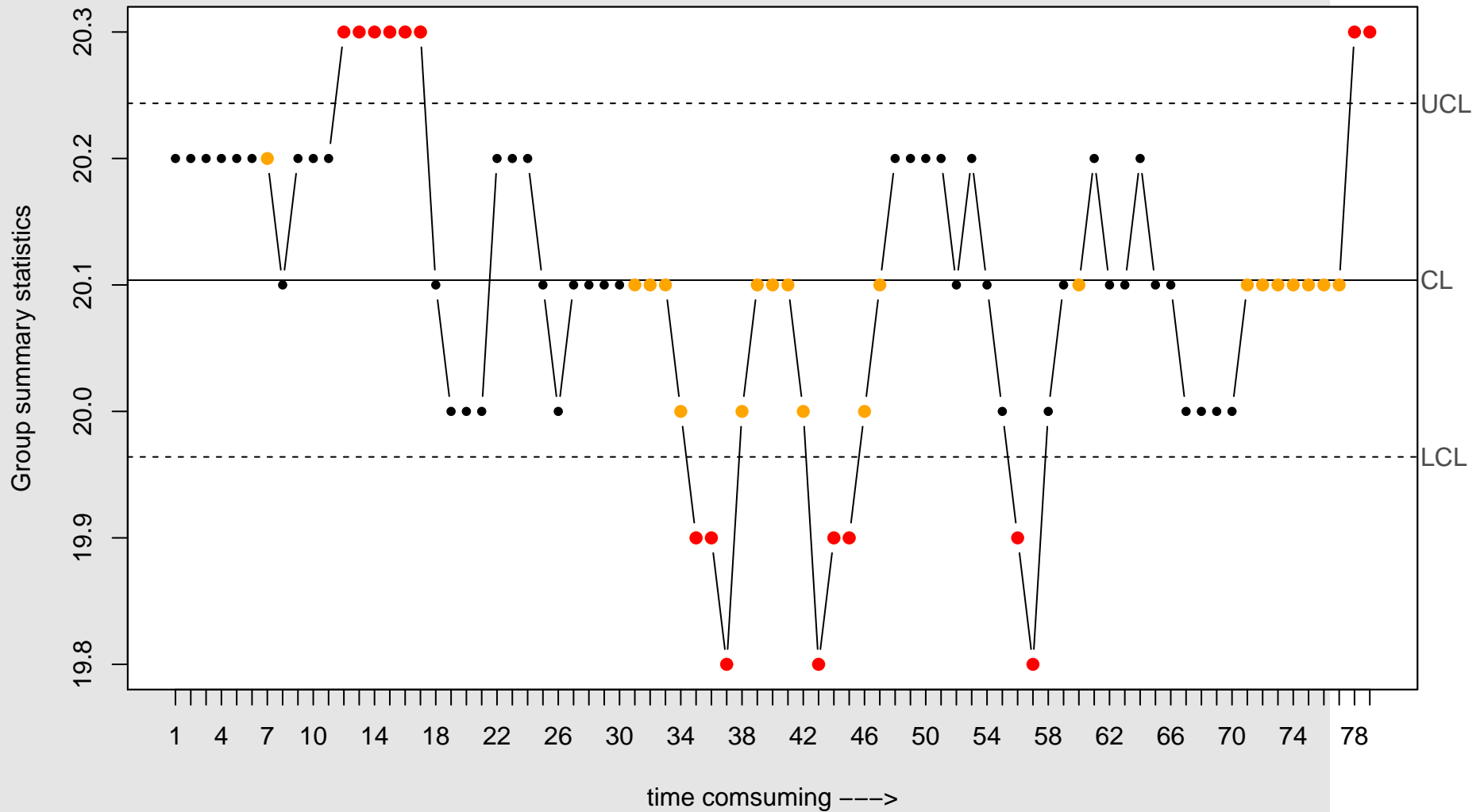
LCL = 19.93088

UCL = 20.2514

Number beyond limits = 17

Number violating runs = 20

5th column point of this product

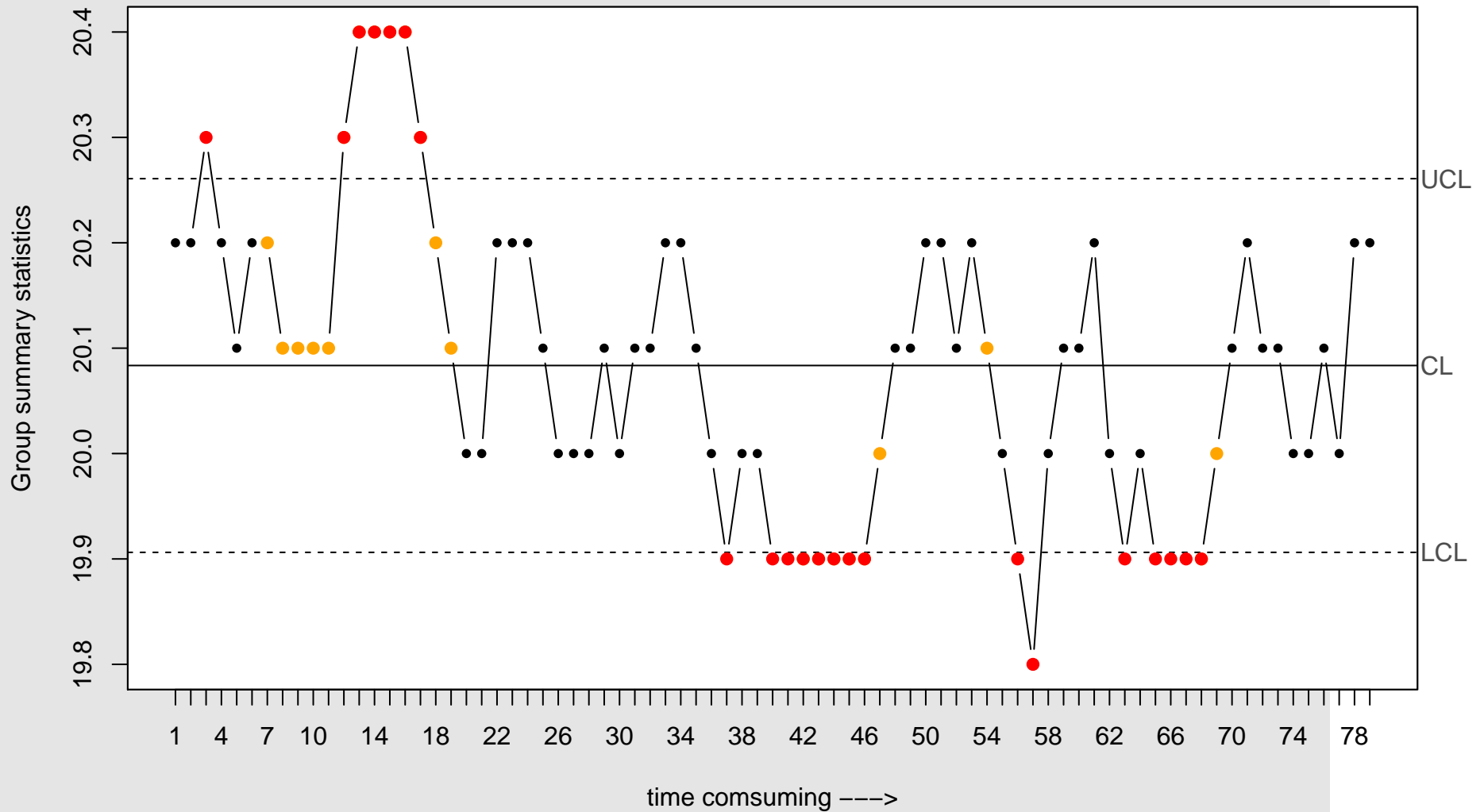


Number of groups = 79
Center = 20.1038
StdDev = 0.04659938

LCL = 19.964
UCL = 20.2436

Number beyond limits = 16
Number violating runs = 29

6th column point of this product

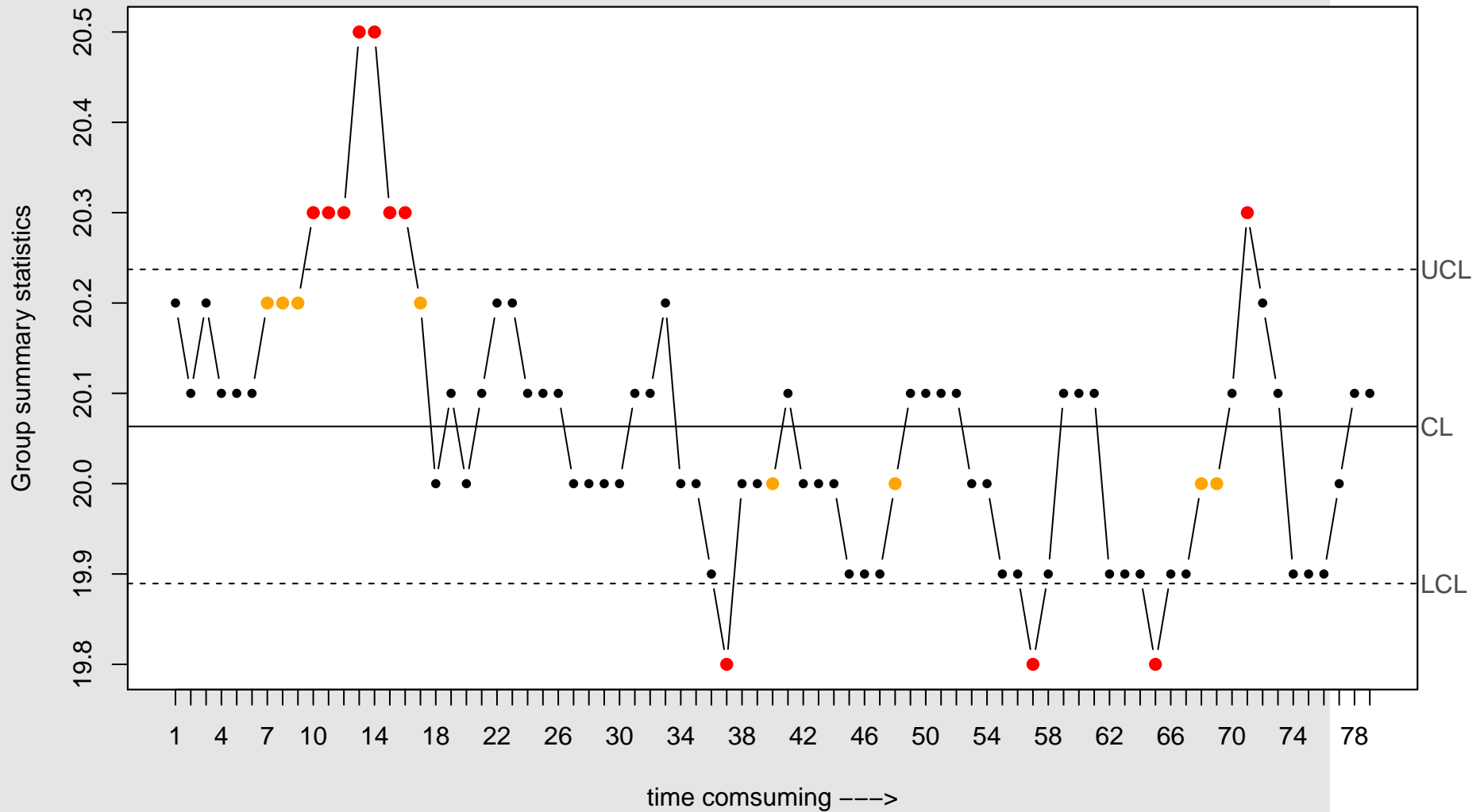


Number of groups = 79
Center = 20.08354
StdDev = 0.05910165

LCL = 19.90624
UCL = 20.26085

Number beyond limits = 22
Number violating runs = 22

7th column point of this product

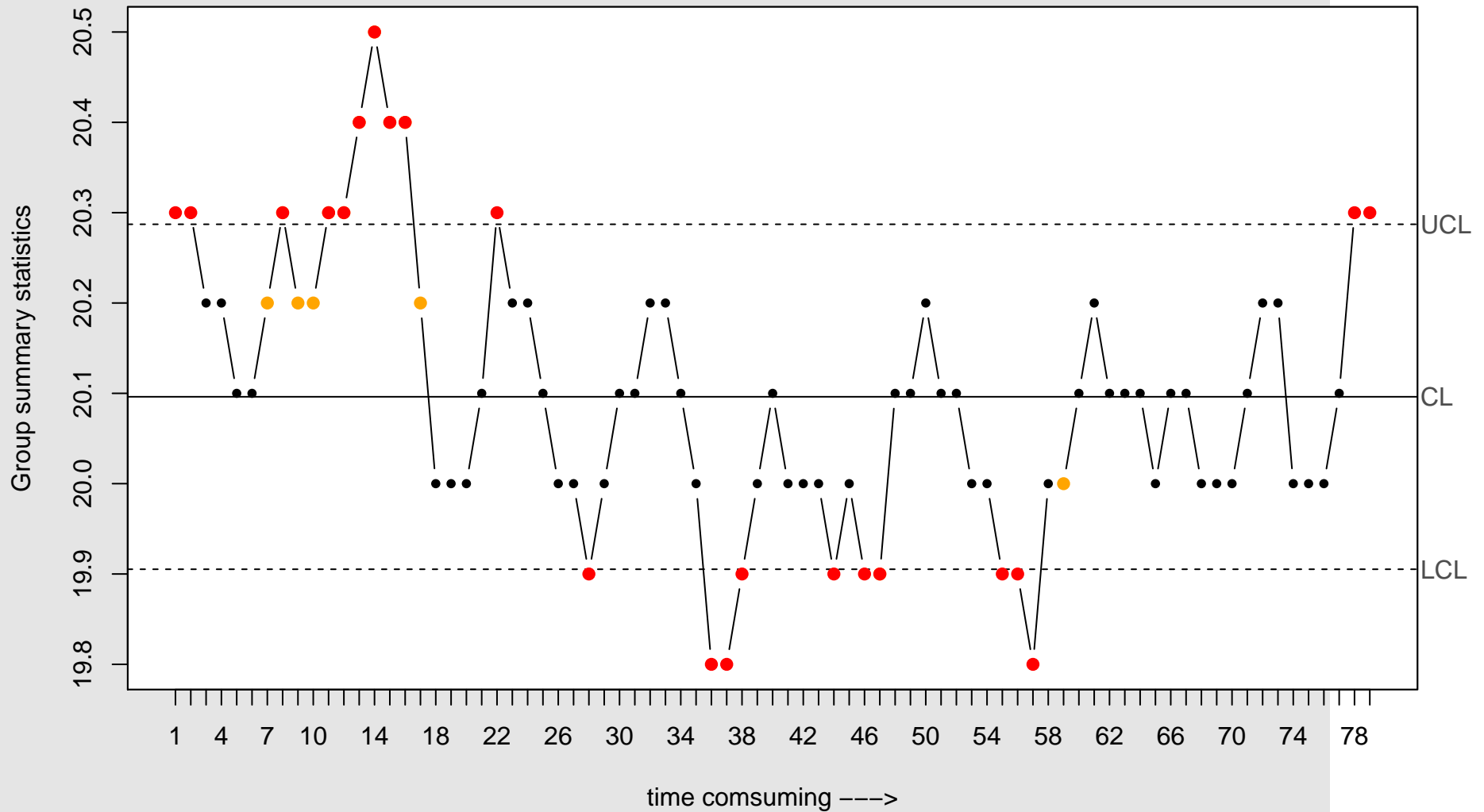


Number of groups = 79
Center = 20.06329
StdDev = 0.05796508

LCL = 19.8894
UCL = 20.23719

Number beyond limits = 11
Number violating runs = 15

8th column point of this product

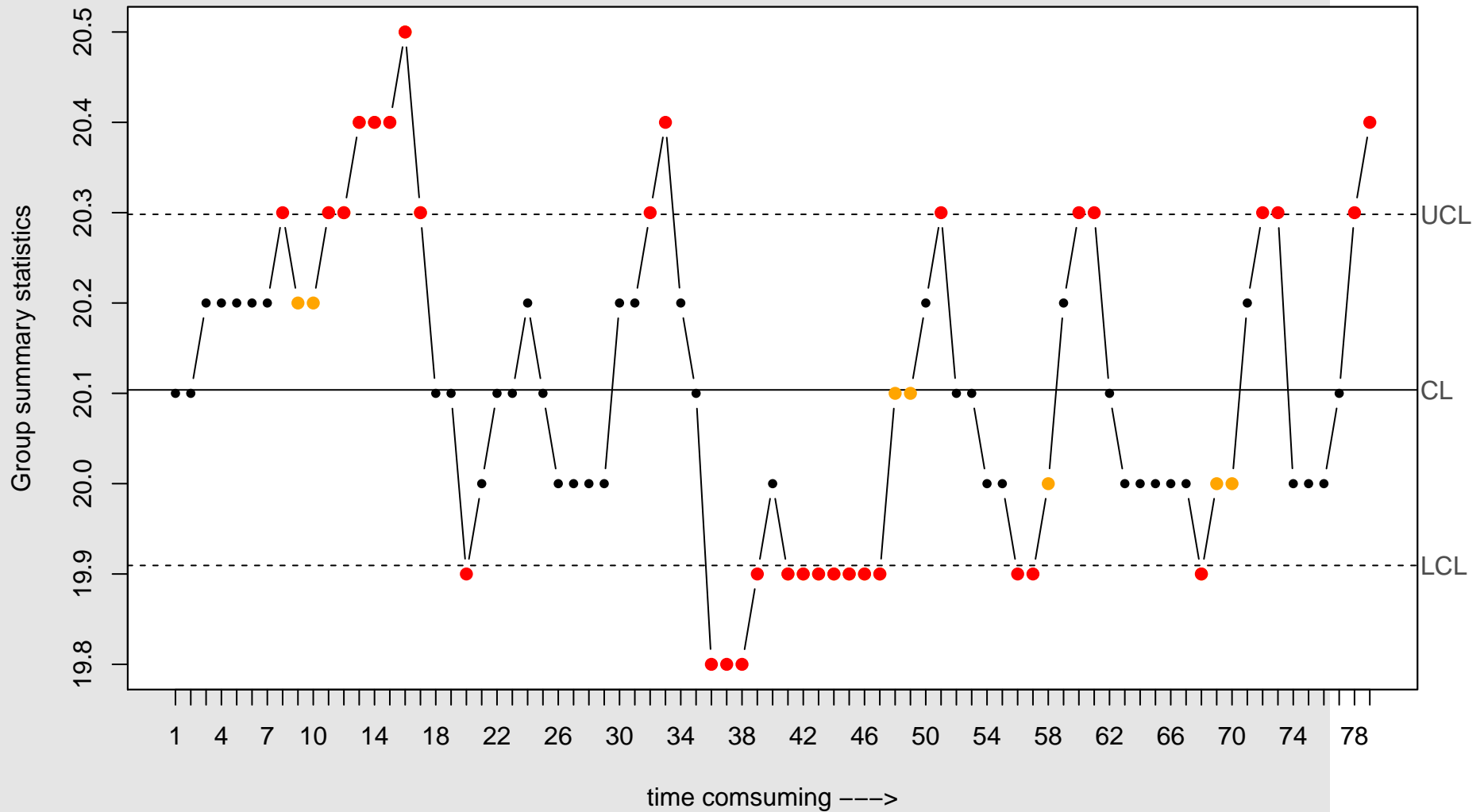


Number of groups = 79
Center = 20.0962
StdDev = 0.06364794

LCL = 19.90526
UCL = 20.28715

Number beyond limits = 22
Number violating runs = 13

9th column point of this product

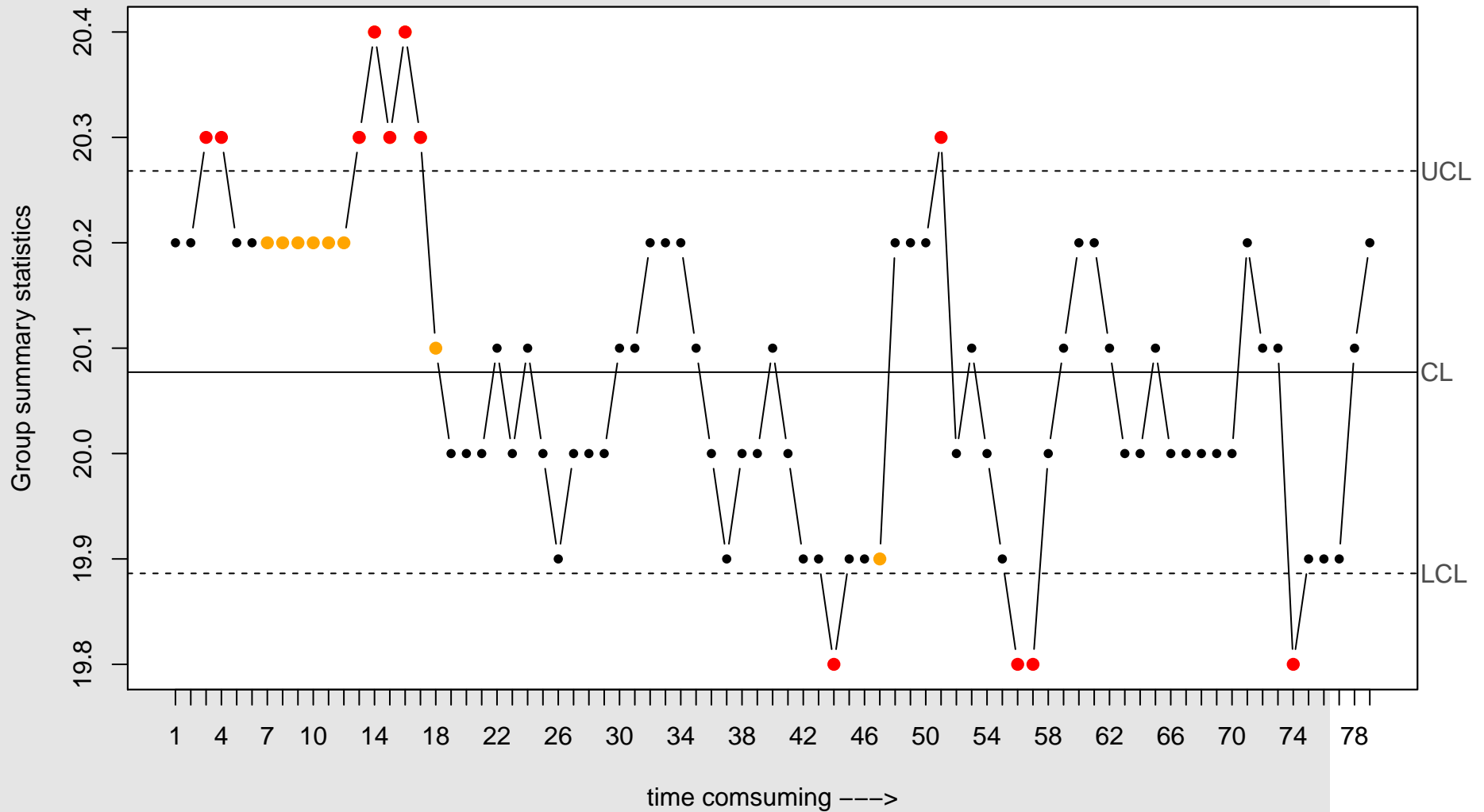


Number of groups = 79
Center = 20.1038
StdDev = 0.06478451

LCL = 19.90944
UCL = 20.29815

Number beyond limits = 32
Number violating runs = 22

10th column point of this product

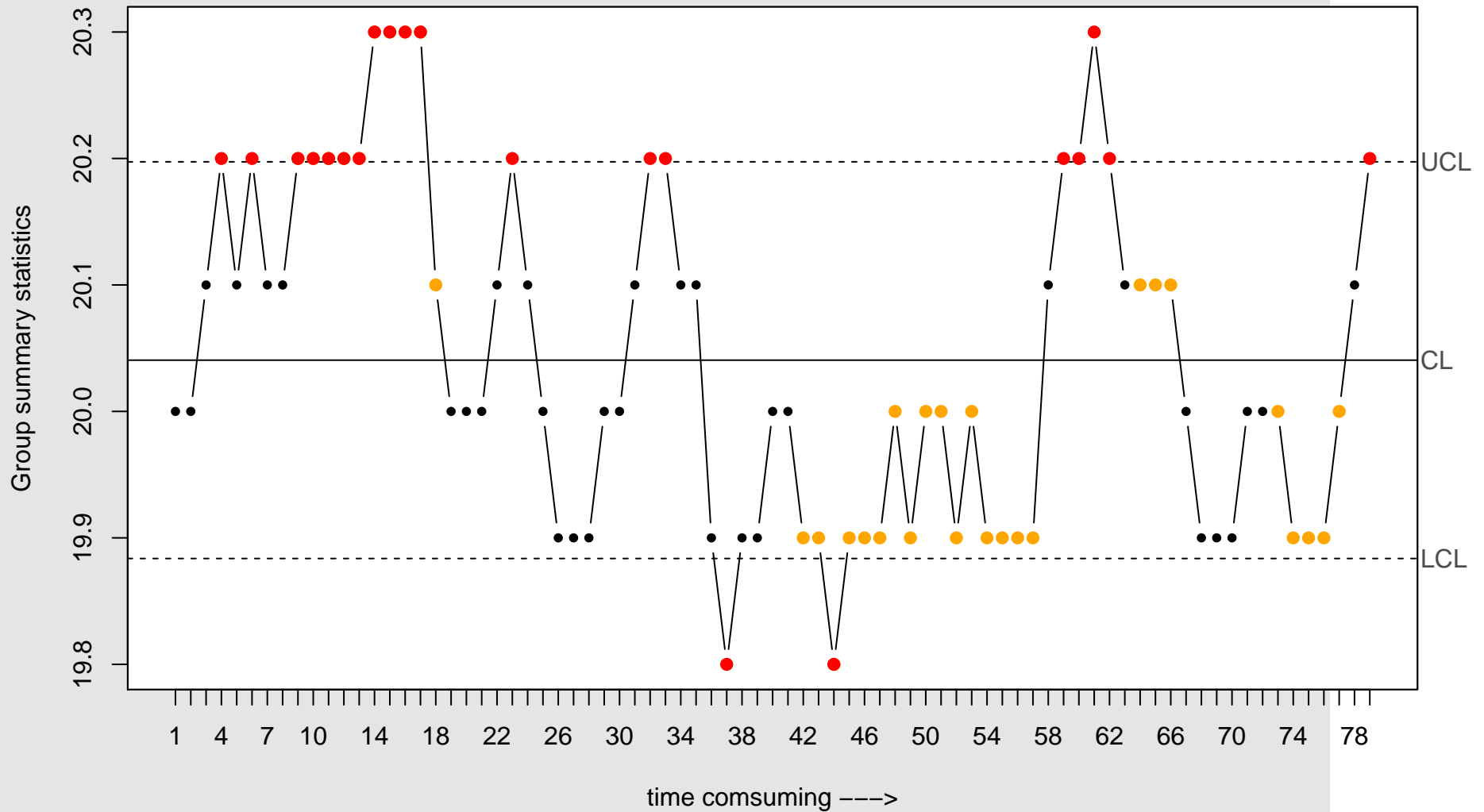


Number of groups = 79
 Center = 20.07722
 StdDev = 0.06364794

LCL = 19.88627
 UCL = 20.26816

Number beyond limits = 12
 Number violating runs = 13

11th column point of this product

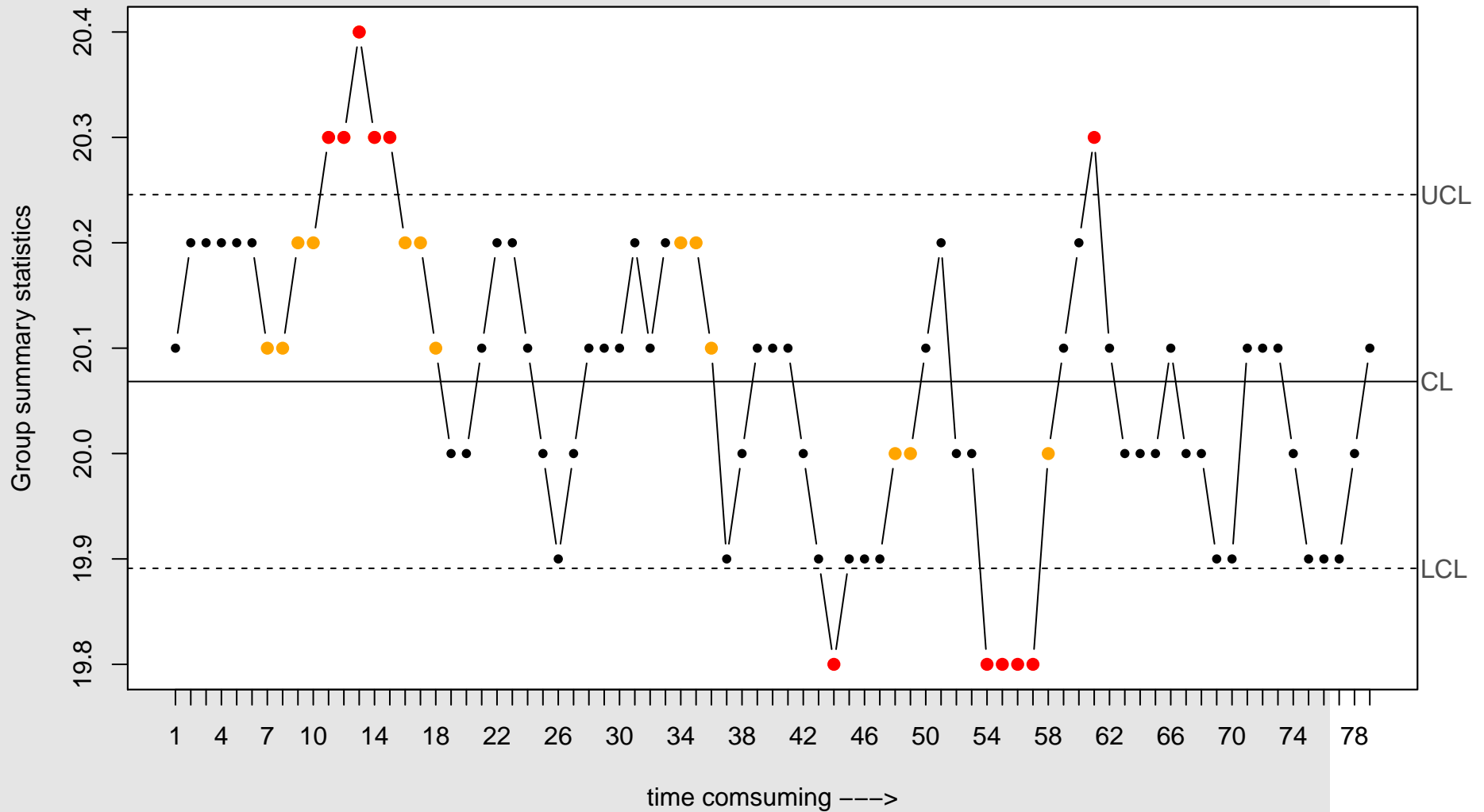


Number of groups = 79
Center = 20.04051
StdDev = 0.05228223

LCL = 19.88366
UCL = 20.19735

Number beyond limits = 21
Number violating runs = 34

12th column point of this product

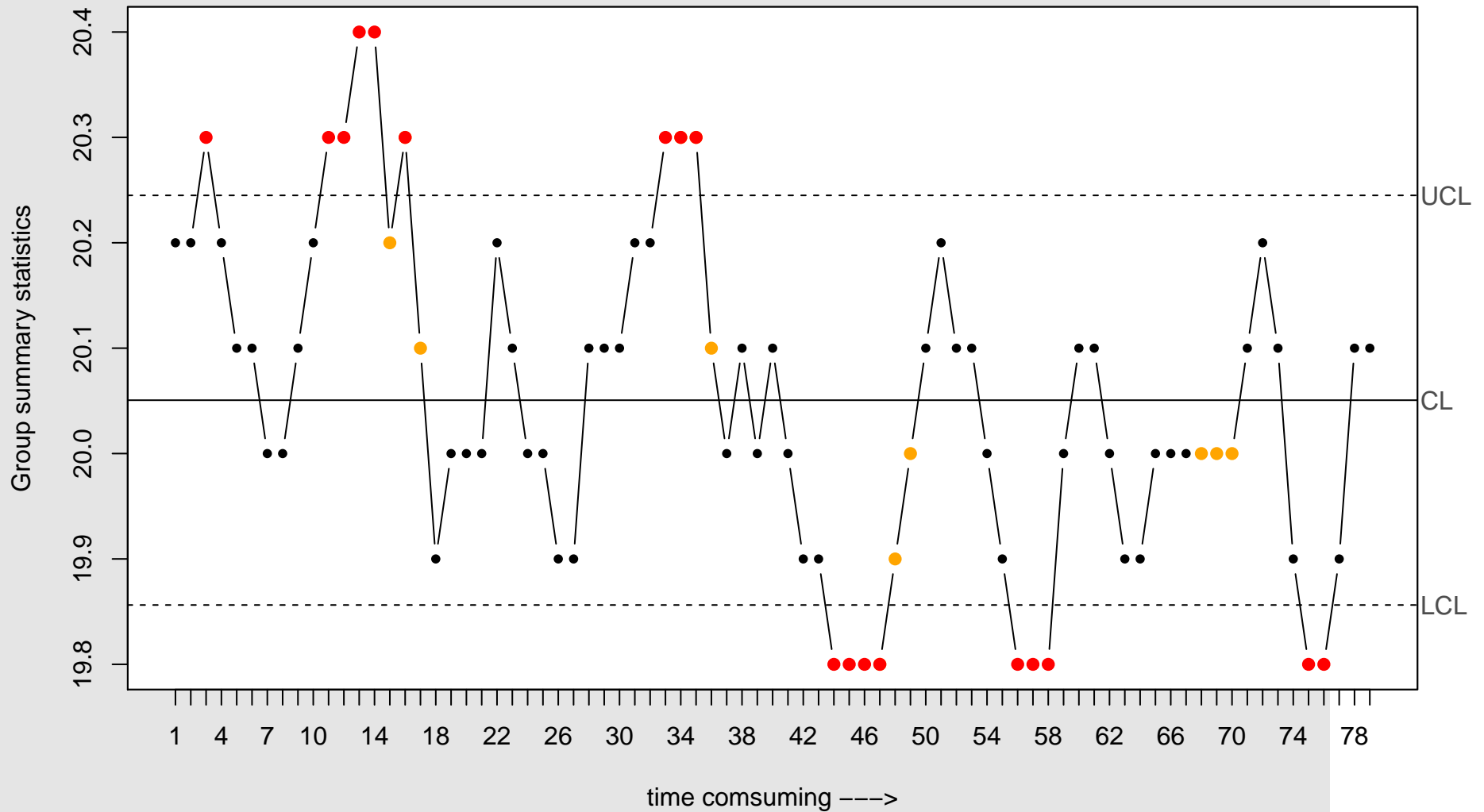


Number of groups = 79
 Center = 20.06835
 StdDev = 0.05910165

LCL = 19.89105
 UCL = 20.24566

Number beyond limits = 11
 Number violating runs = 18

13th column point of this product



Number of groups = 79

Center = 20.05063

StdDev = 0.06478451

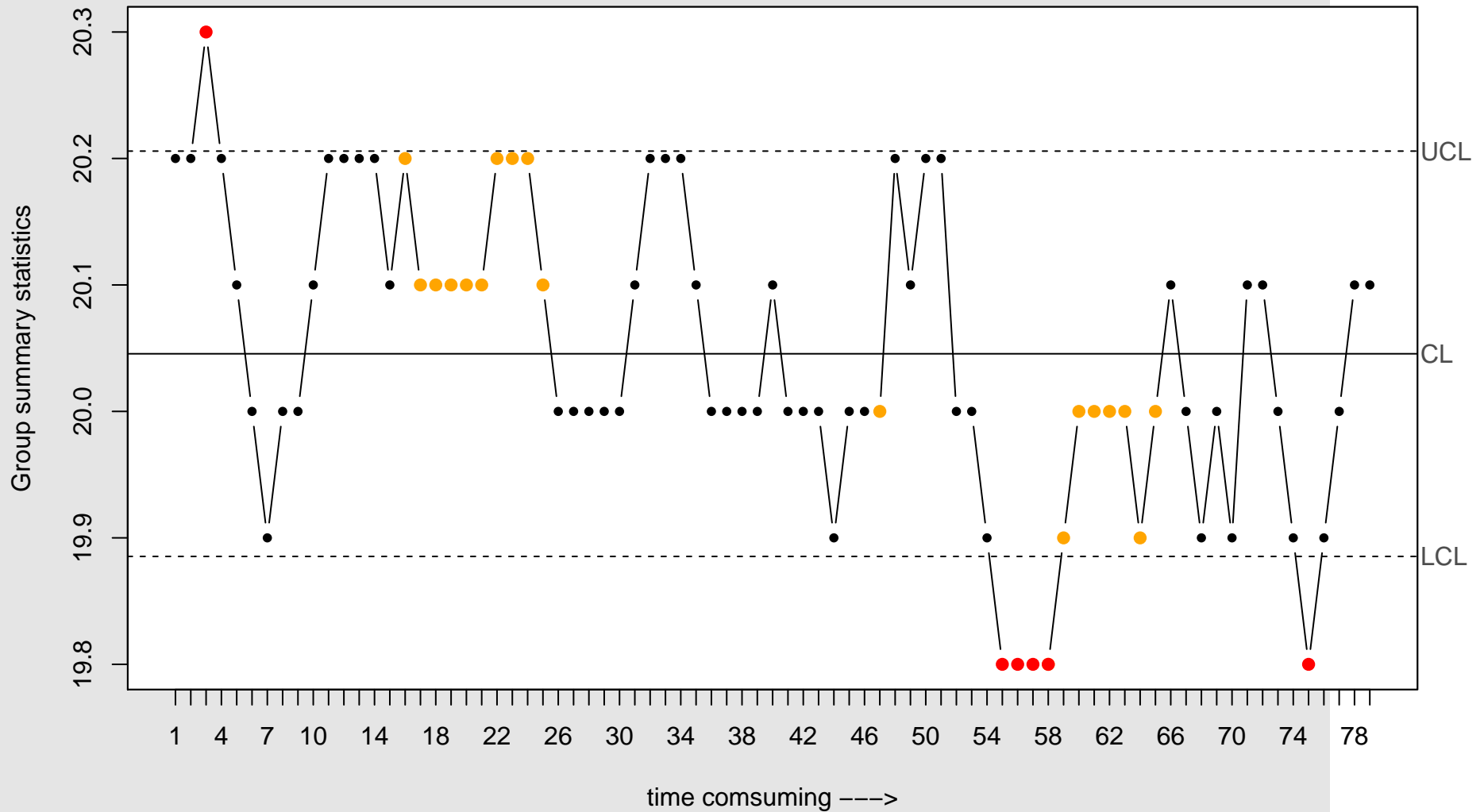
LCL = 19.85628

UCL = 20.24499

Number beyond limits = 18

Number violating runs = 12

14th column point of this product



Number of groups = 79

Center = 20.04557

StdDev = 0.0534188

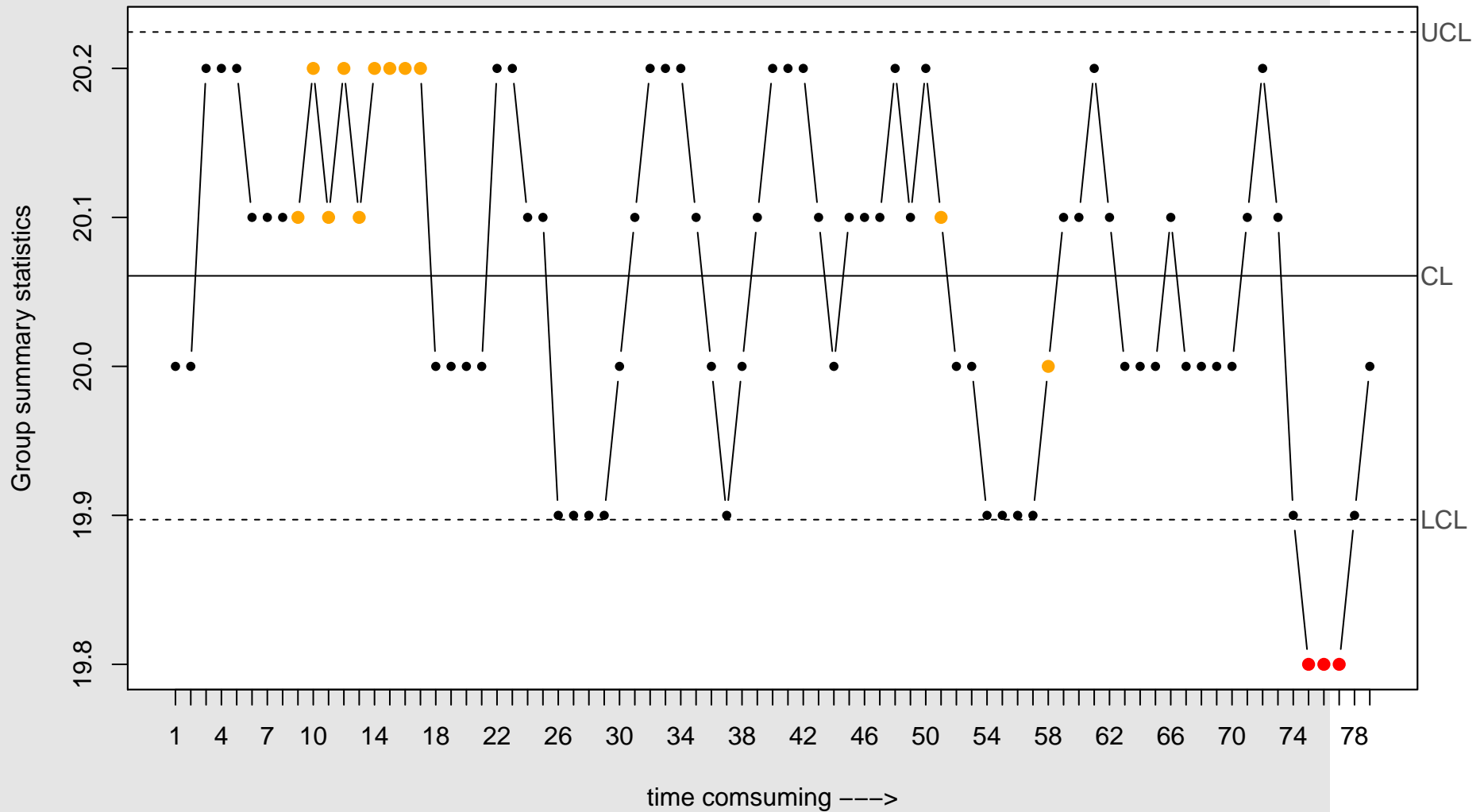
LCL = 19.88531

UCL = 20.20583

Number beyond limits = 6

Number violating runs = 19

15th column point of this product

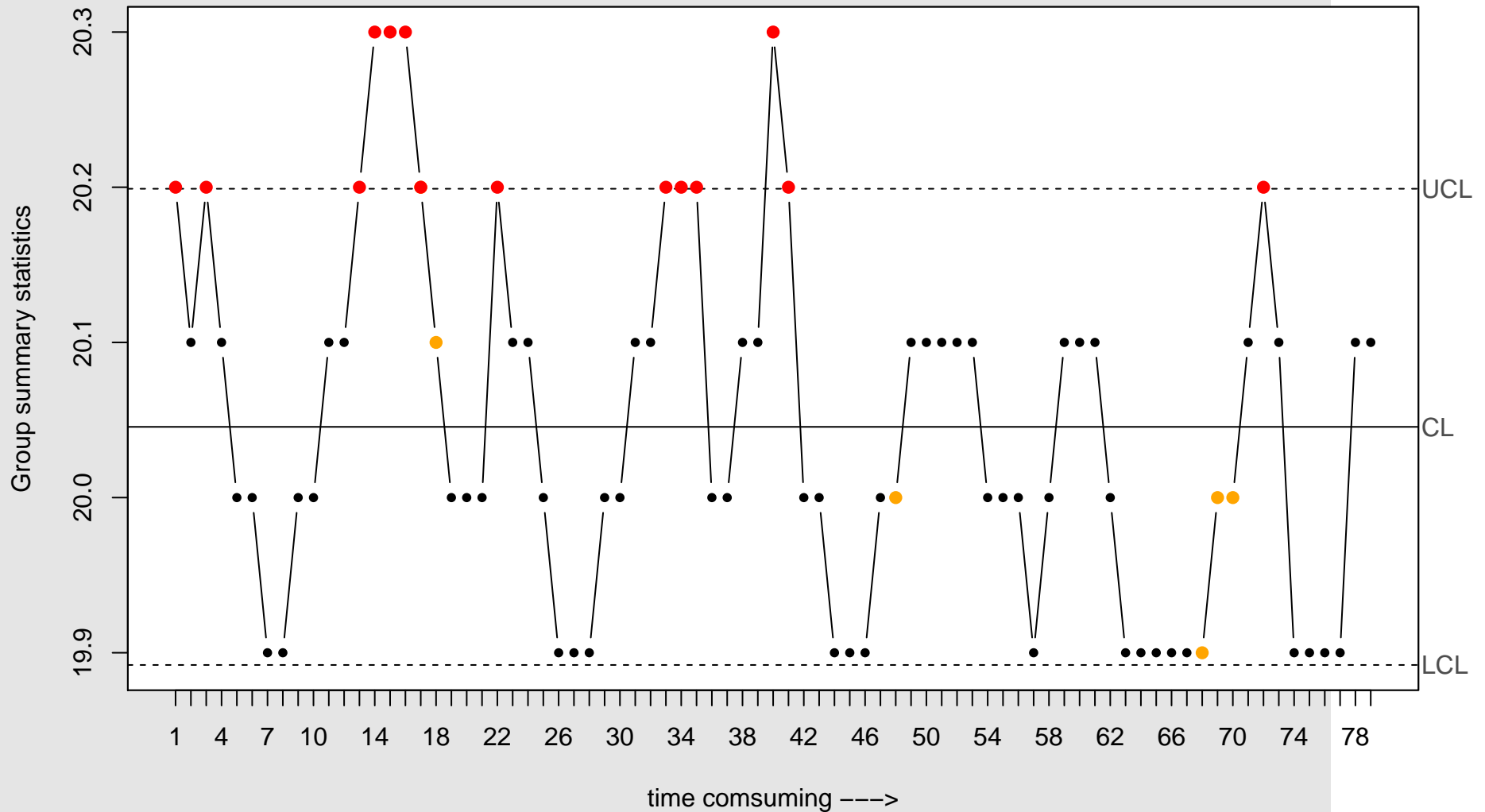


Number of groups = 79
Center = 20.06076
StdDev = 0.05455537

LCL = 19.89709
UCL = 20.22443

Number beyond limits = 3
Number violating runs = 11

16th column point of this product

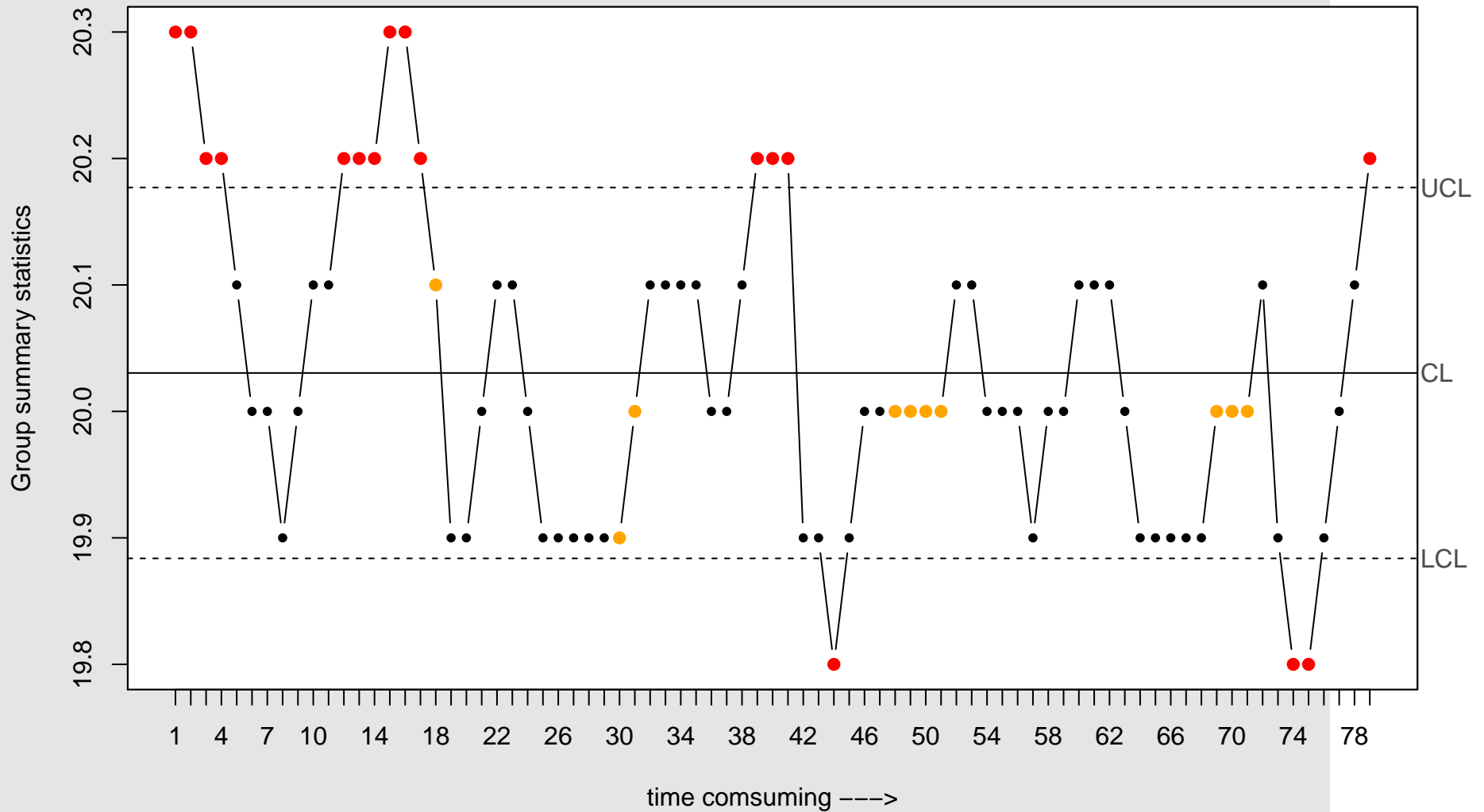


Number of groups = 79
Center = 20.04557
StdDev = 0.05114566

LCL = 19.89213
UCL = 20.19901

Number beyond limits = 14
Number violating runs = 6

17th column point of this product

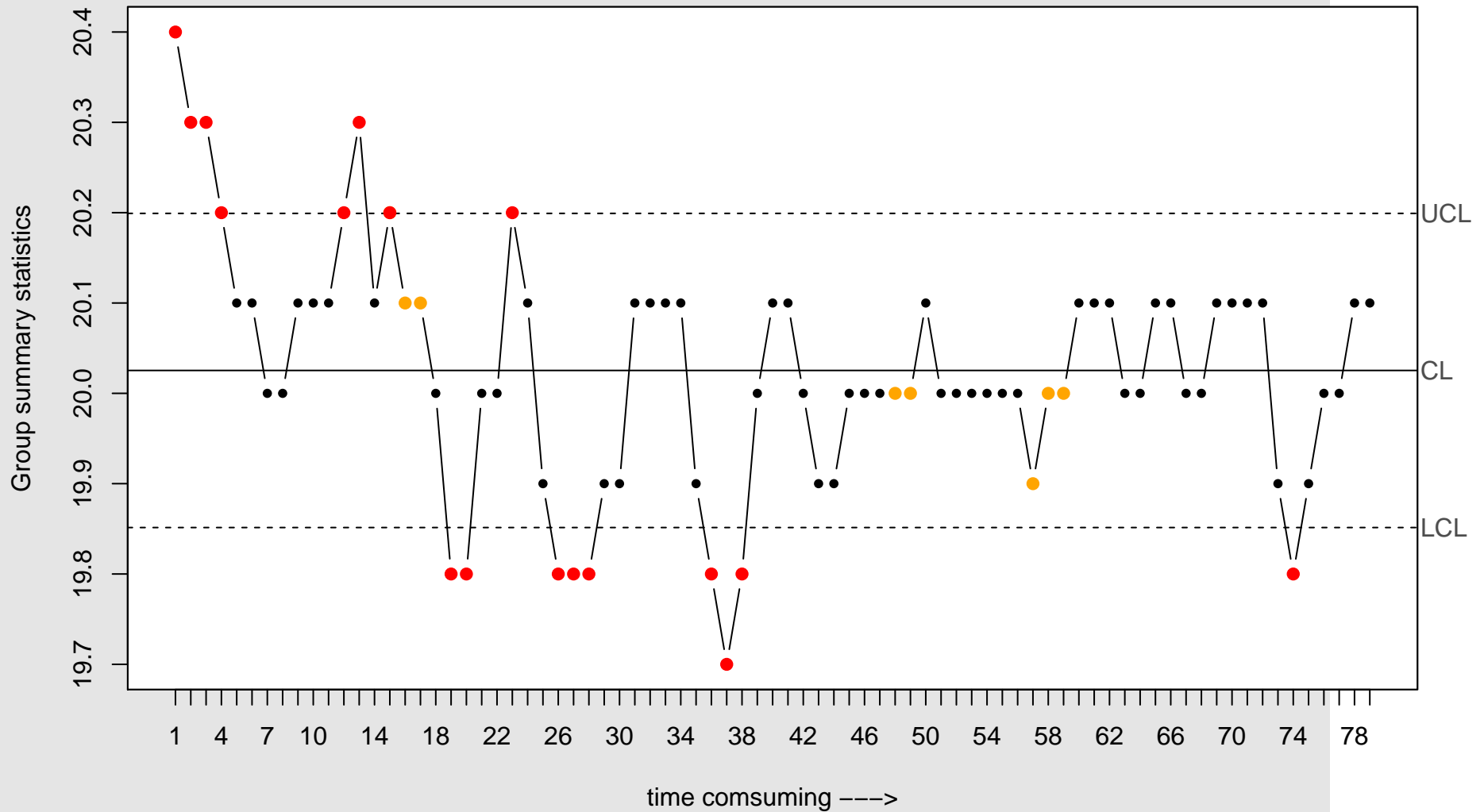


Number of groups = 79
Center = 20.03038
StdDev = 0.04887252

LCL = 19.88376
UCL = 20.177

Number beyond limits = 17
Number violating runs = 12

18th column point of this product



Number of groups = 79

Center = 20.02532

StdDev = 0.05796508

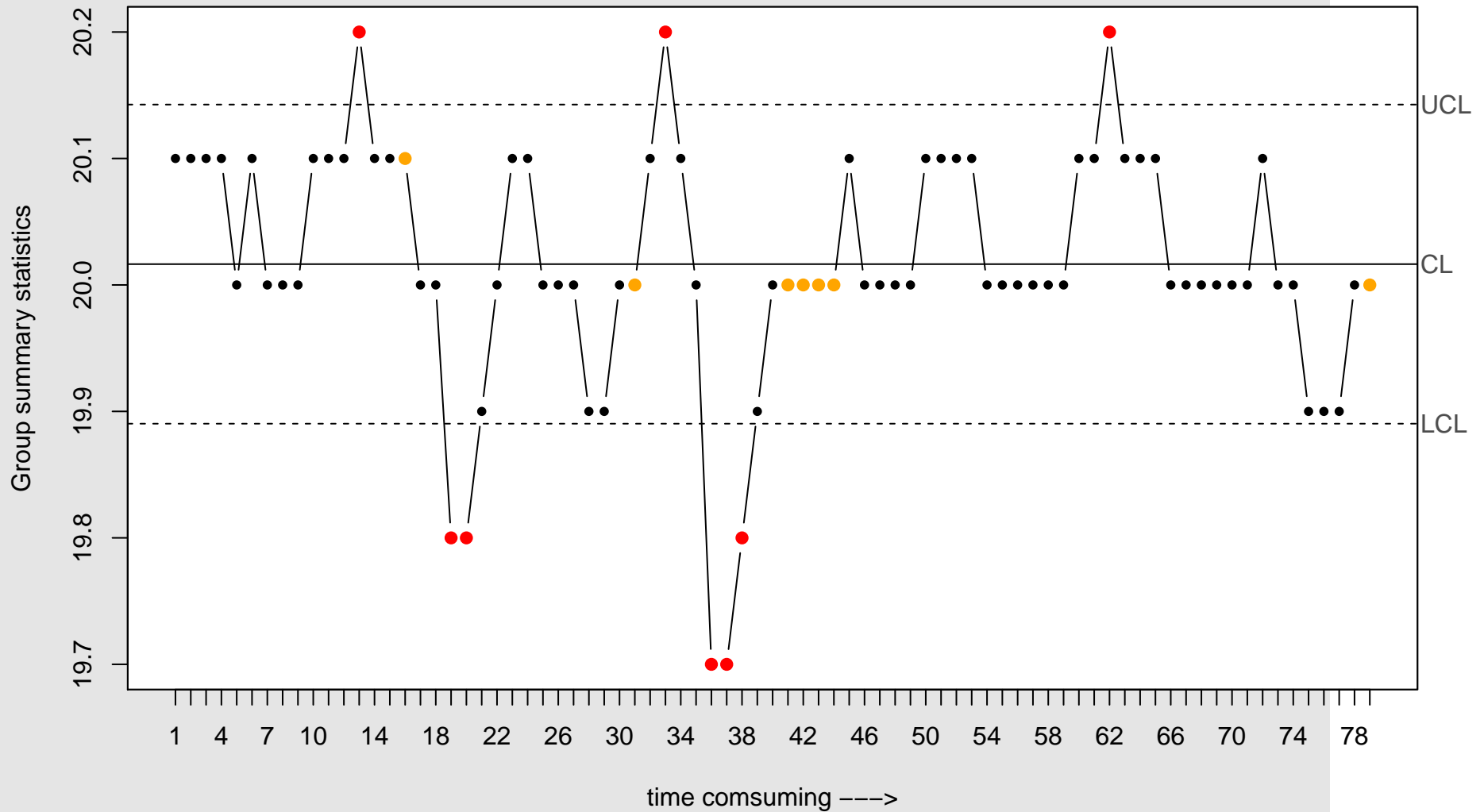
LCL = 19.85142

UCL = 20.19921

Number beyond limits = 17

Number violating runs = 8

19th column point of this product



Number of groups = 79

Center = 20.01646

StdDev = 0.0420531

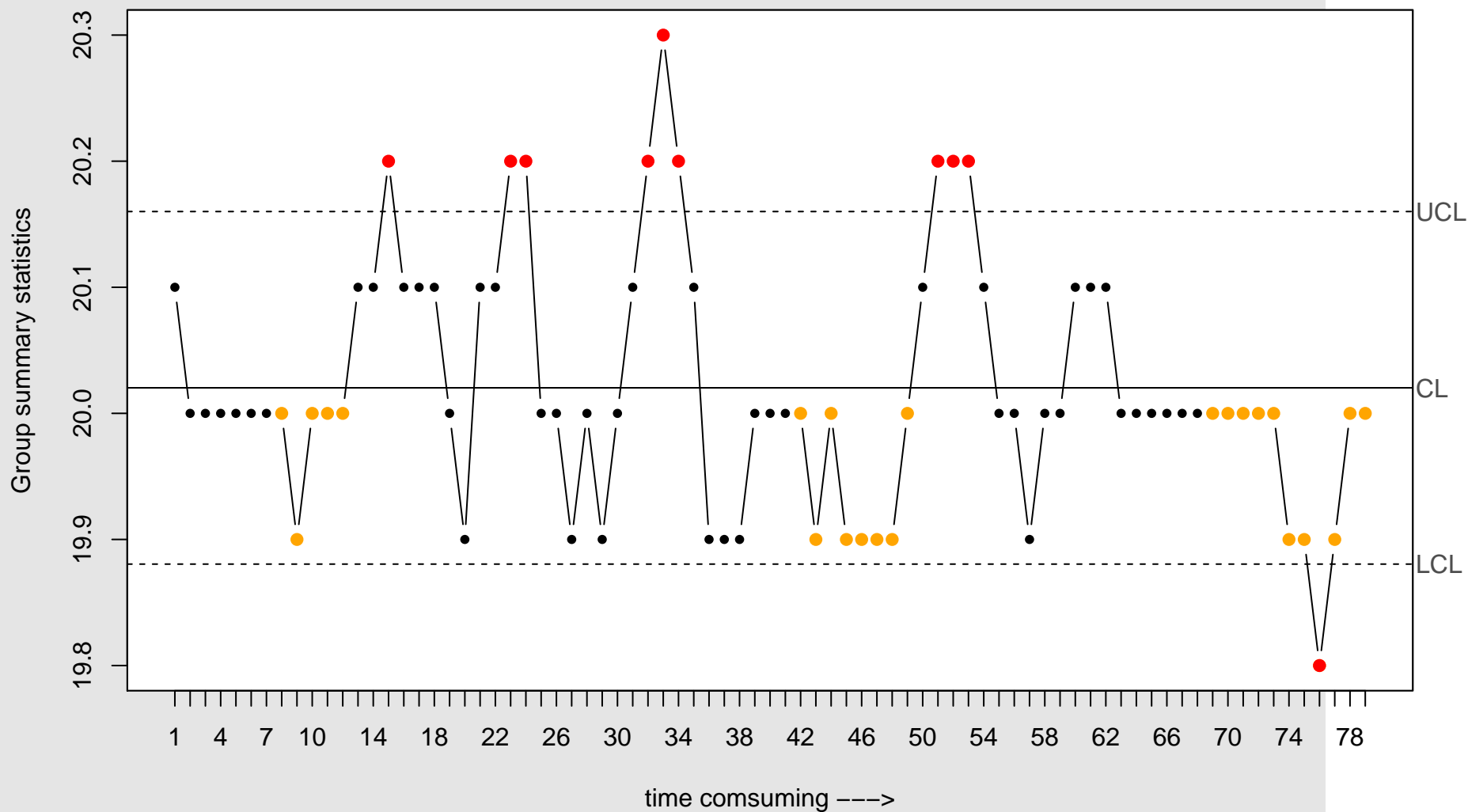
LCL = 19.8903

UCL = 20.14261

Number beyond limits = 8

Number violating runs = 7

20th column point of this product



Number of groups = 79

Center = 20.02025

StdDev = 0.04659938

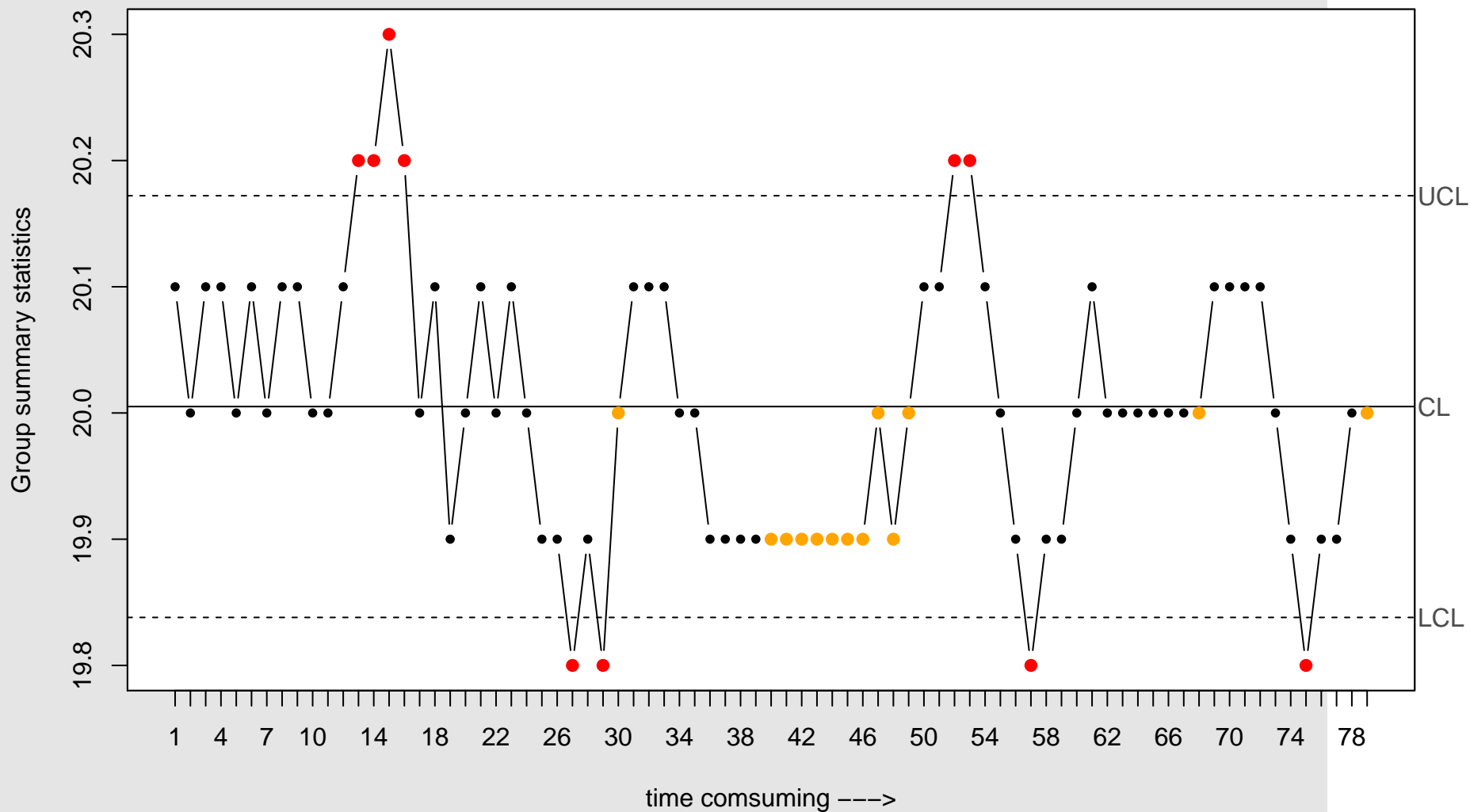
LCL = 19.88046

UCL = 20.16005

Number beyond limits = 10

Number violating runs = 24

21th column point of this product

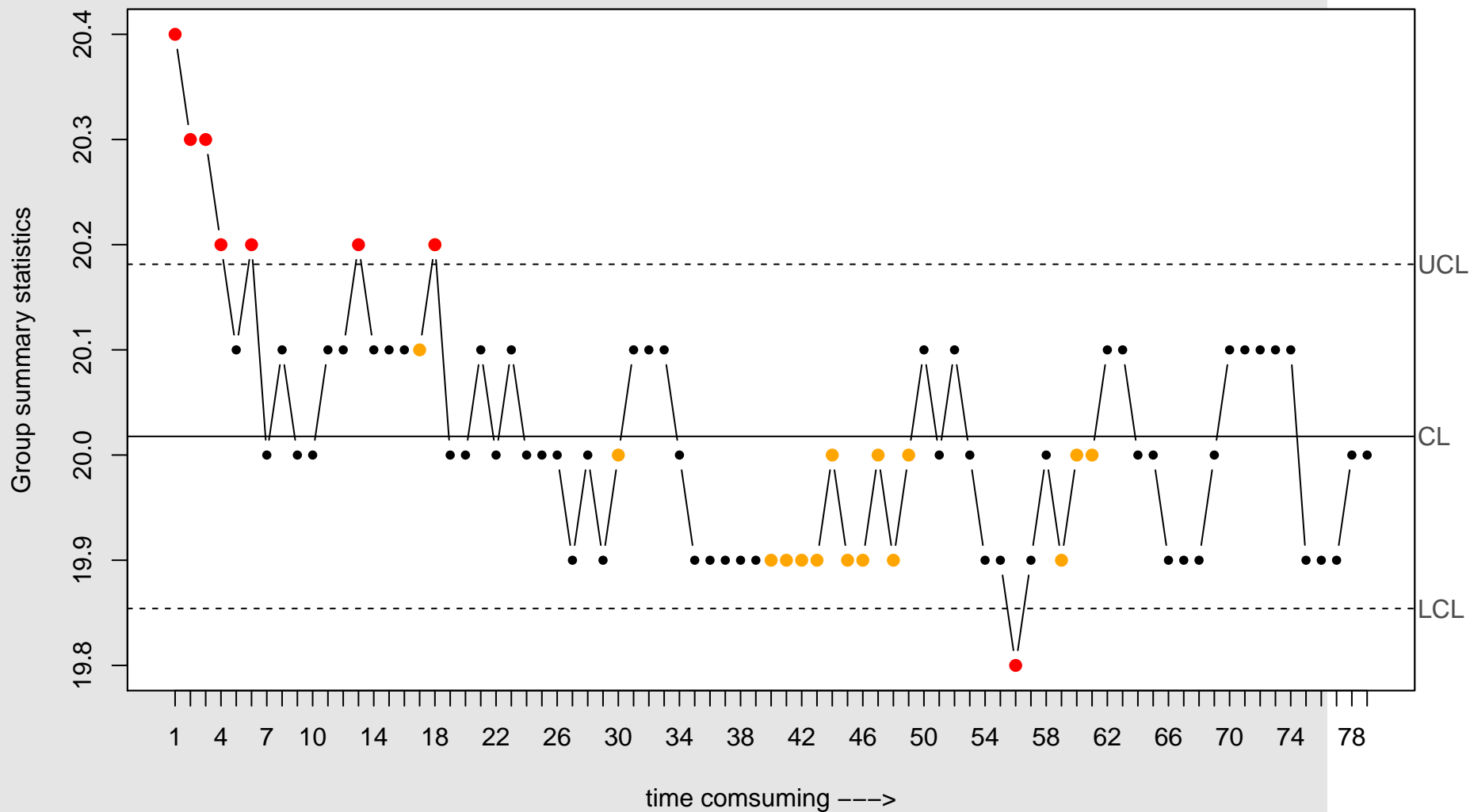


Number of groups = 79
Center = 20.00506
StdDev = 0.05569194

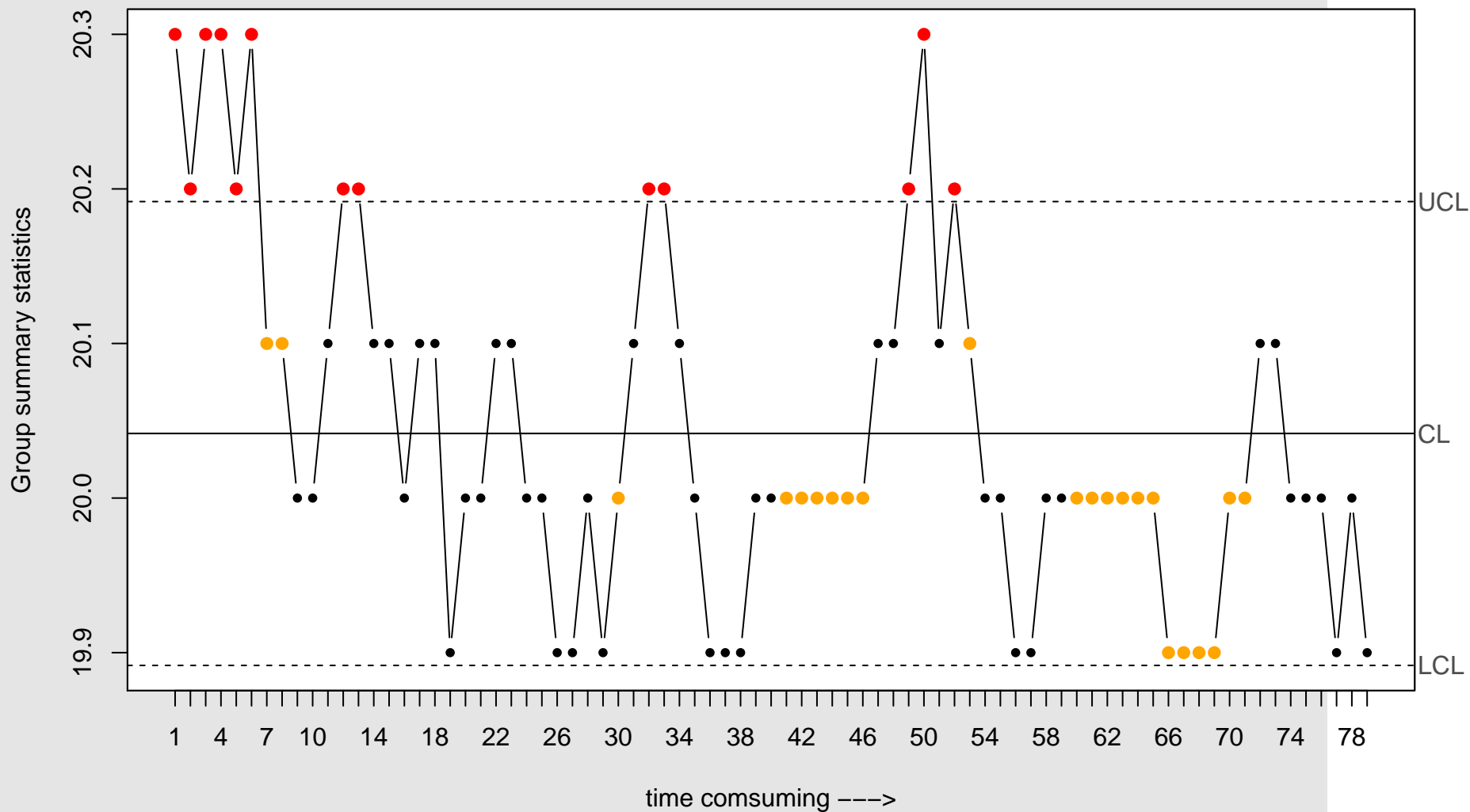
LCL = 19.83799
UCL = 20.17214

Number beyond limits = 10
Number violating runs = 13

22th column point of this product



23th column point of this product

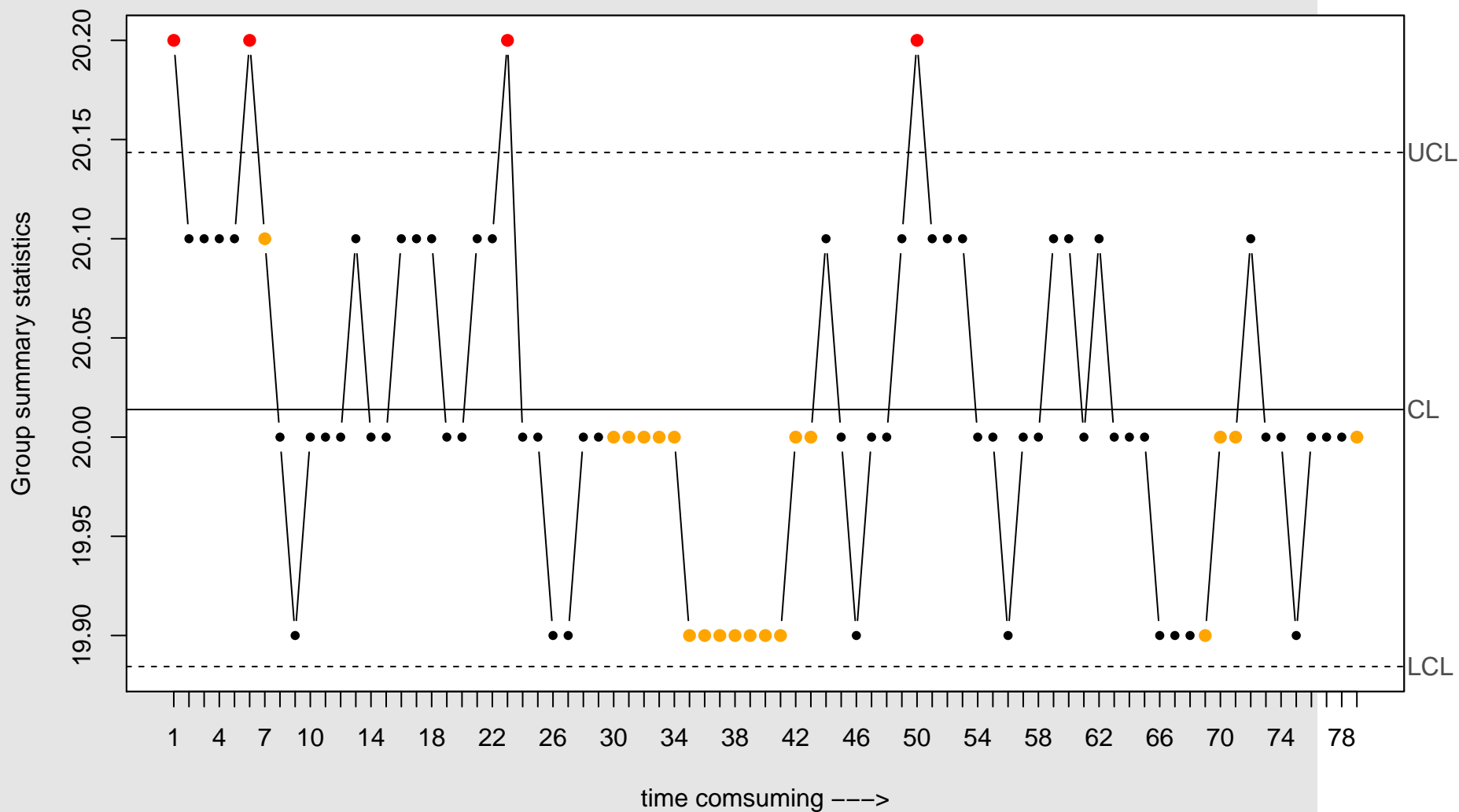


Number of groups = 79
 Center = 20.04177
 StdDev = 0.05000909

LCL = 19.89174
 UCL = 20.1918

Number beyond limits = 13
 Number violating runs = 22

24th column point of this product

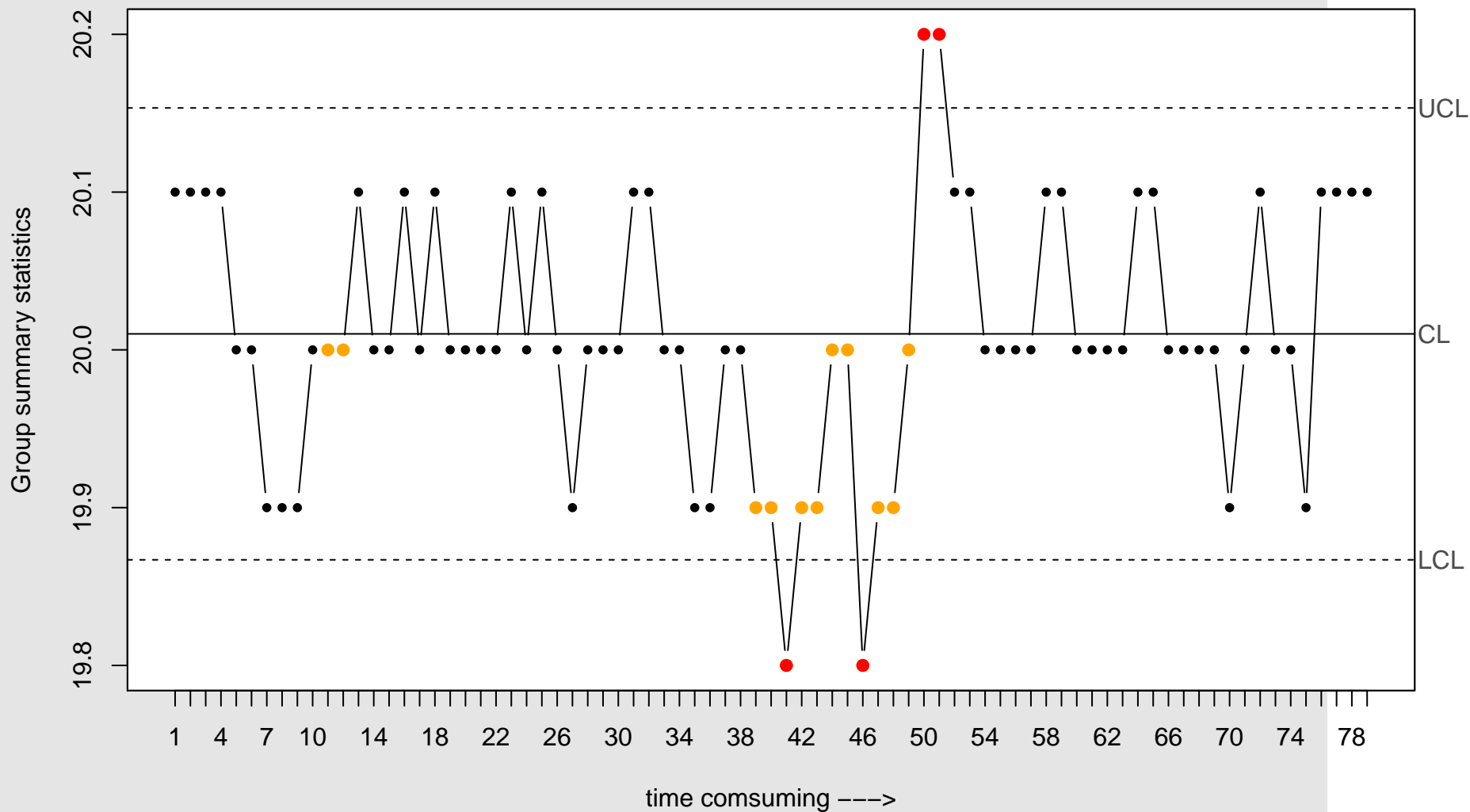


Number of groups = 79
 Center = 20.01392
 StdDev = 0.04318967

LCL = 19.88436
 UCL = 20.14349

Number beyond limits = 4
 Number violating runs = 19

25th column point of this product

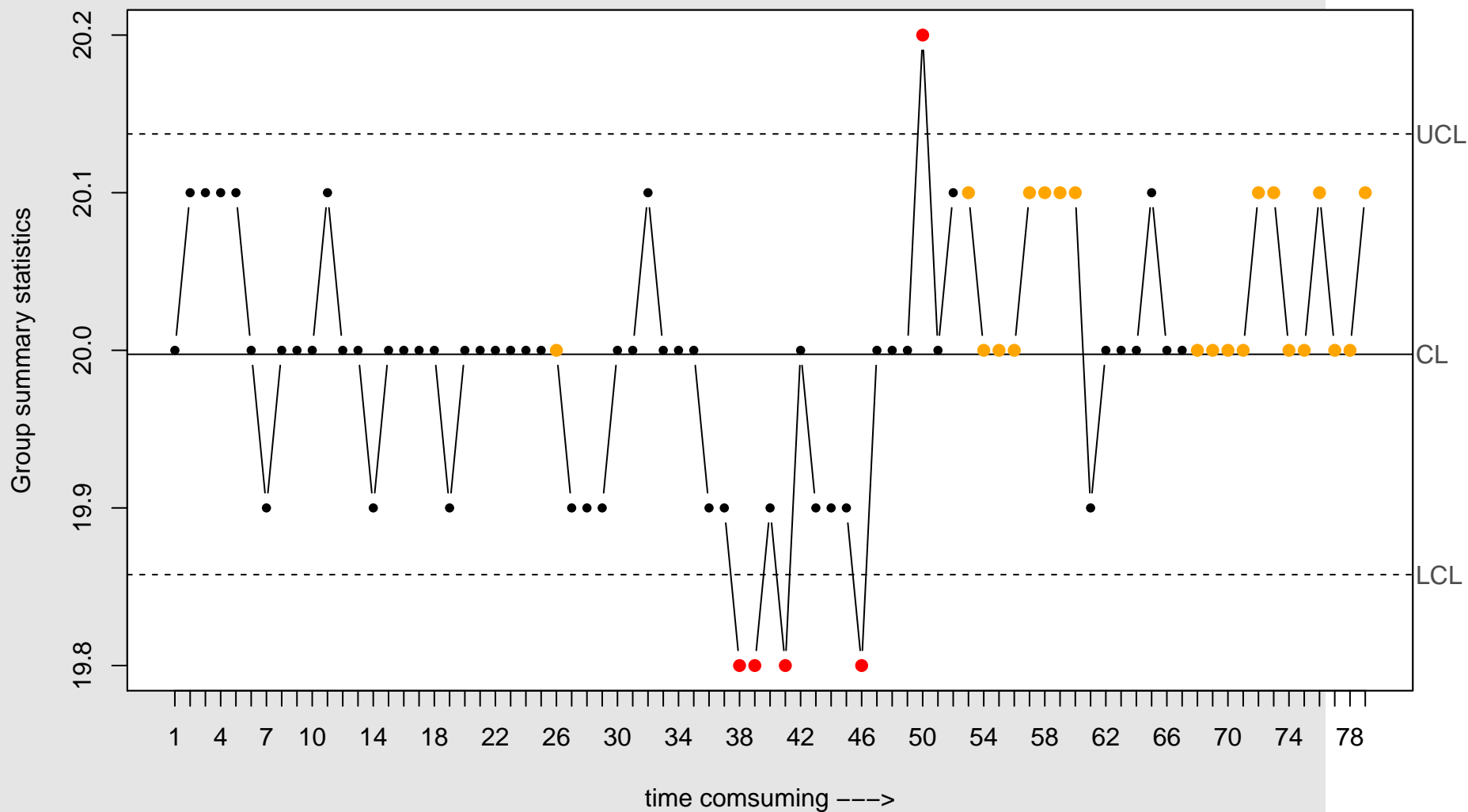


Number of groups = 79
 Center = 20.01013
 StdDev = 0.04773595

LCL = 19.86692
 UCL = 20.15333

Number beyond limits = 4
 Number violating runs = 13

26th column point of this product

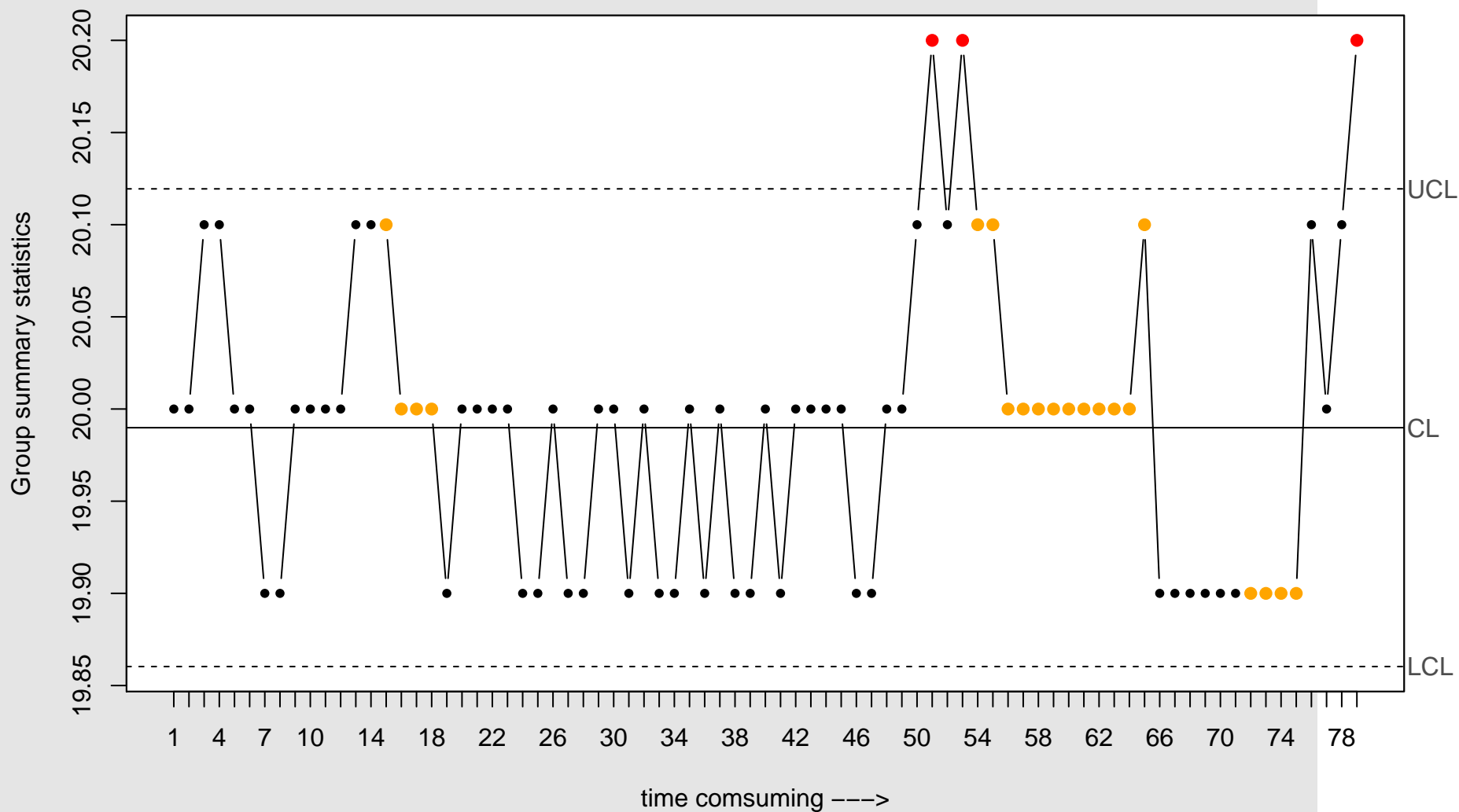


Number of groups = 79
 Center = 19.99747
 StdDev = 0.04659938

LCL = 19.85767
 UCL = 20.13727

Number beyond limits = 5
 Number violating runs = 21

27th column point of this product

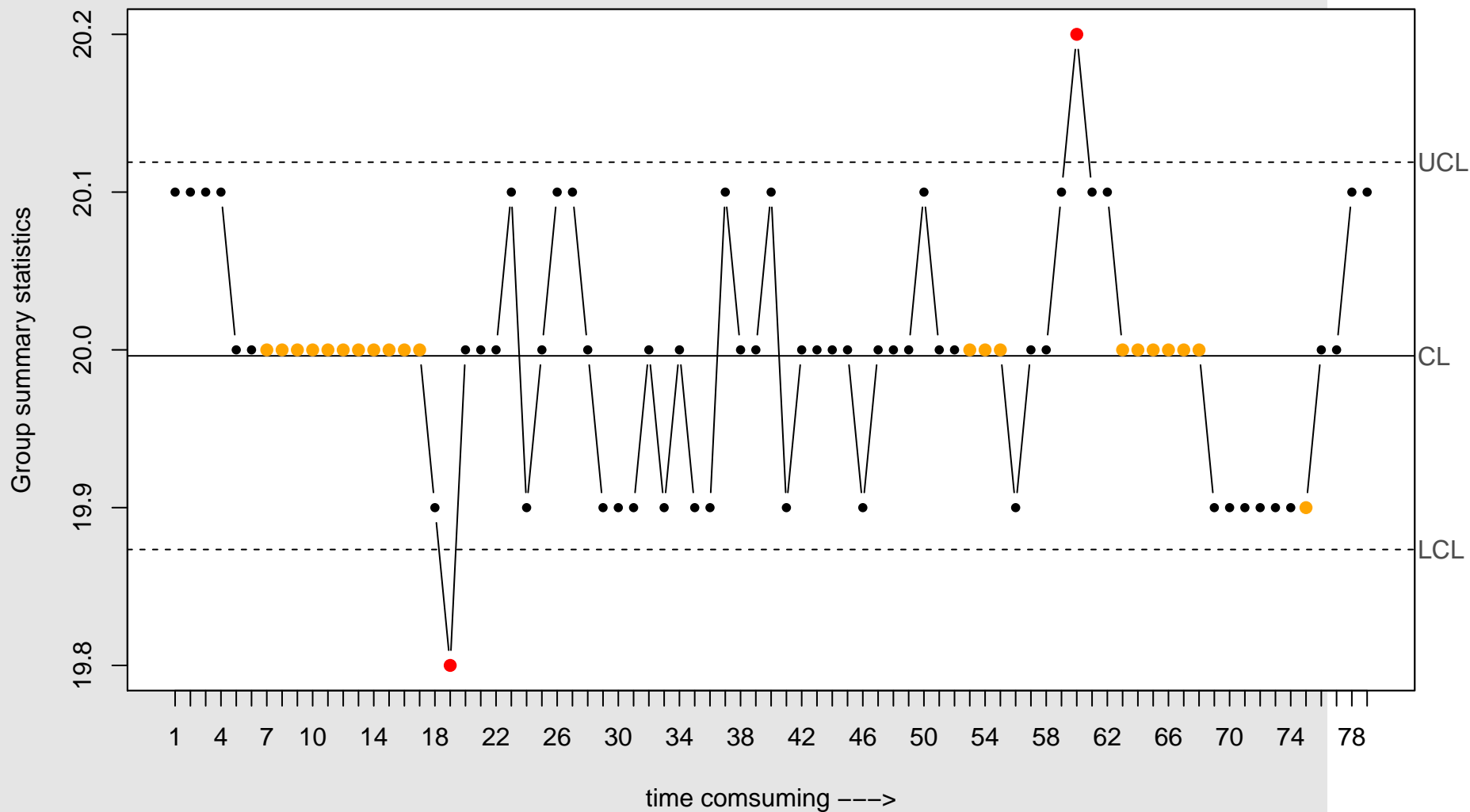


Number of groups = 79
 Center = 19.98987
 StdDev = 0.04318967

LCL = 19.8603
 UCL = 20.11944

Number beyond limits = 3
 Number violating runs = 20

28th column point of this product

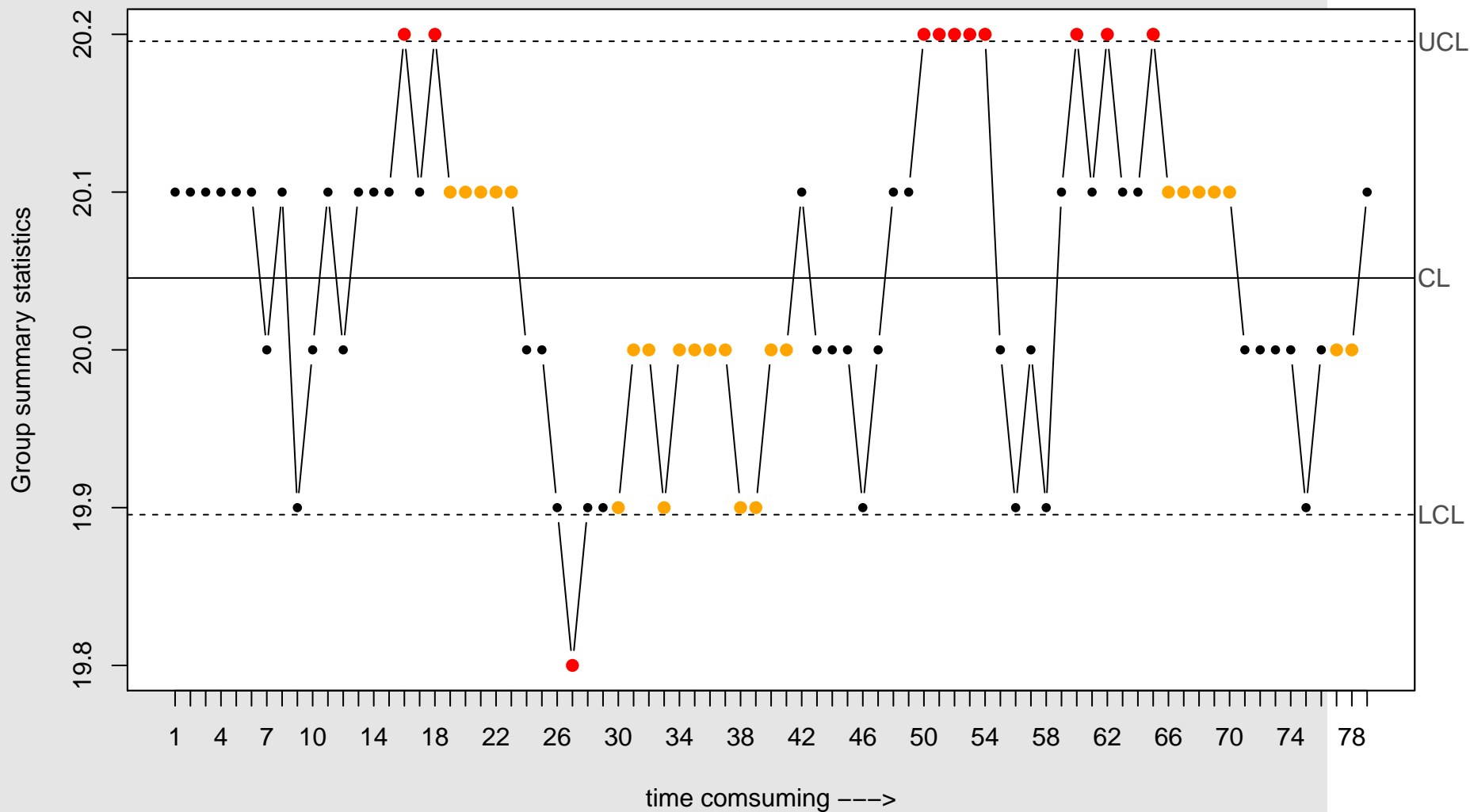


Number of groups = 79
Center = 19.9962
StdDev = 0.04091653

LCL = 19.87345
UCL = 20.11895

Number beyond limits = 2
Number violating runs = 21

29th column point of this product



Number of groups = 79

Center = 20.04557

StdDev = 0.05000909

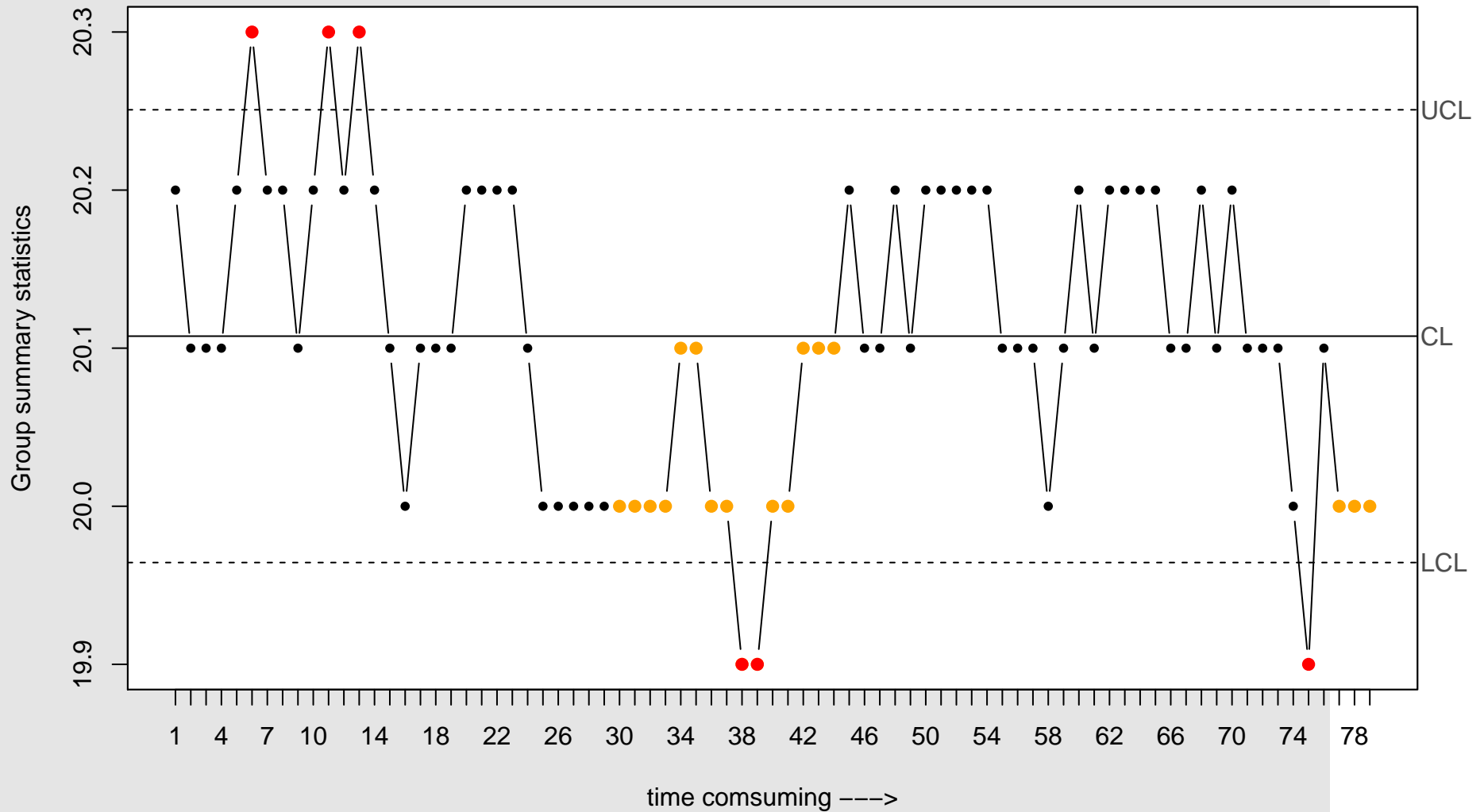
LCL = 19.89554

UCL = 20.1956

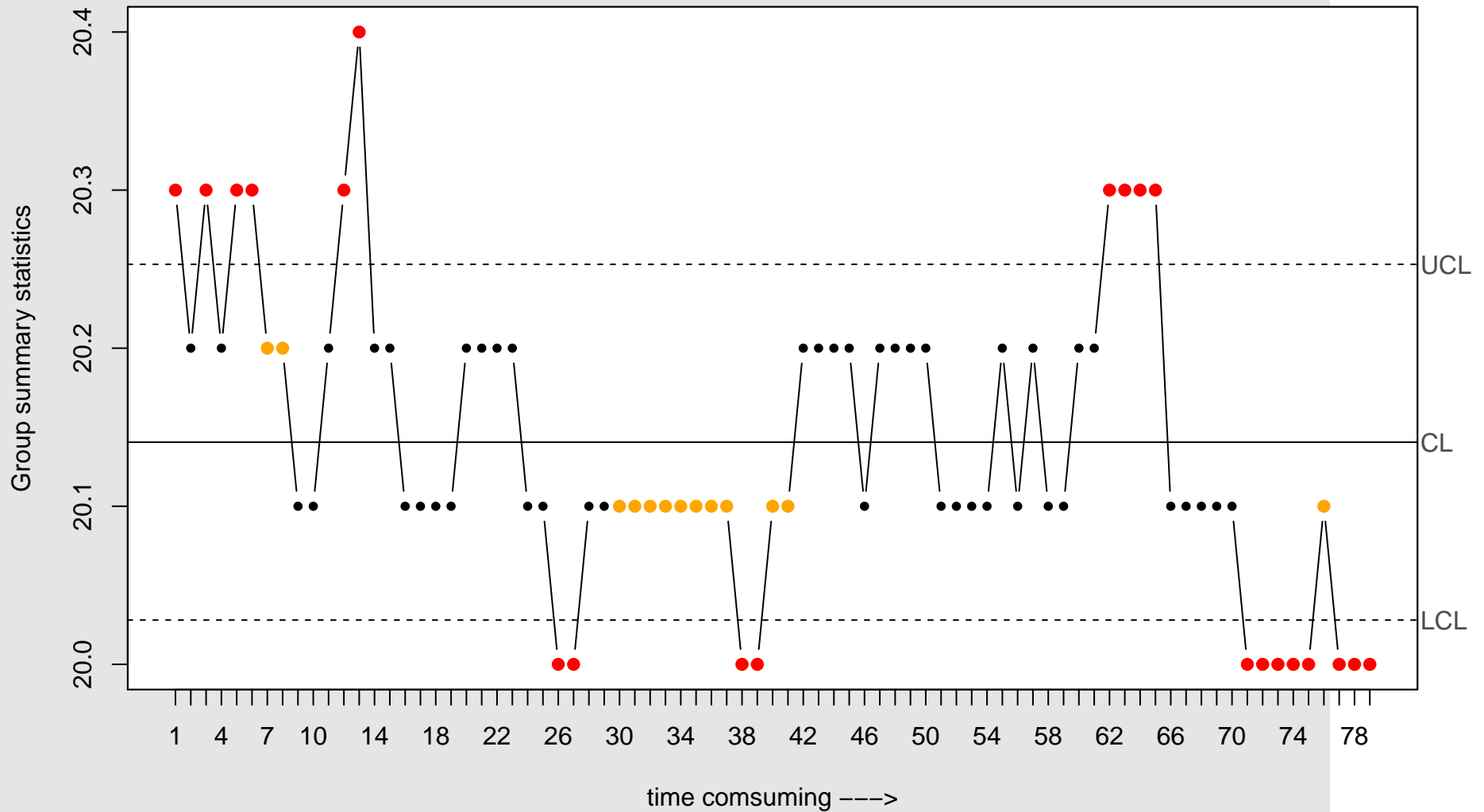
Number beyond limits = 11

Number violating runs = 26

30th column point of this product



31th column point of this product



Number of groups = 79

Center = 20.14051

StdDev = 0.03750682

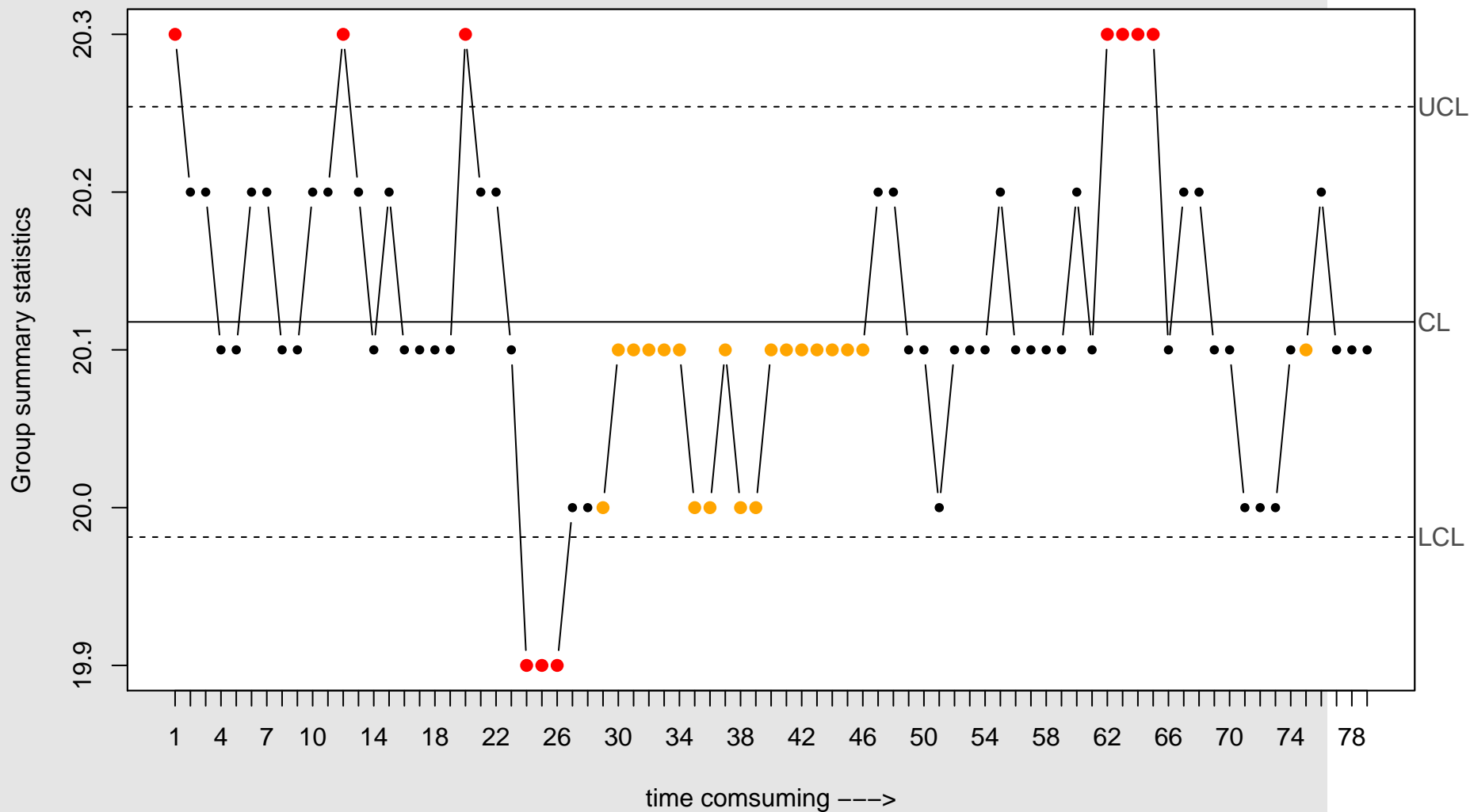
LCL = 20.02799

UCL = 20.25303

Number beyond limits = 22

Number violating runs = 22

32th column point of this product

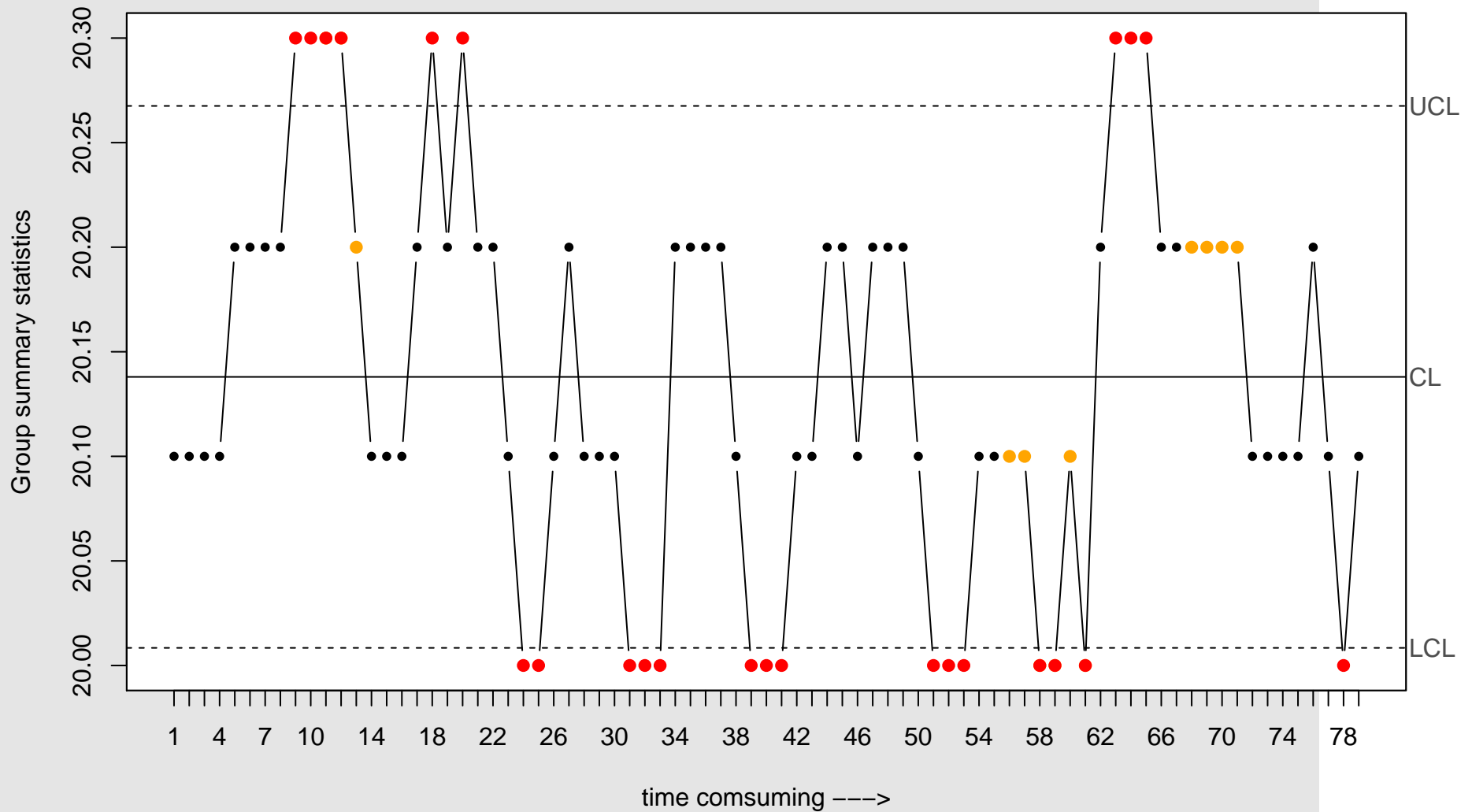


Number of groups = 79
Center = 20.11772
StdDev = 0.04546281

LCL = 19.98133
UCL = 20.25411

Number beyond limits = 10
Number violating runs = 19

33th column point of this product

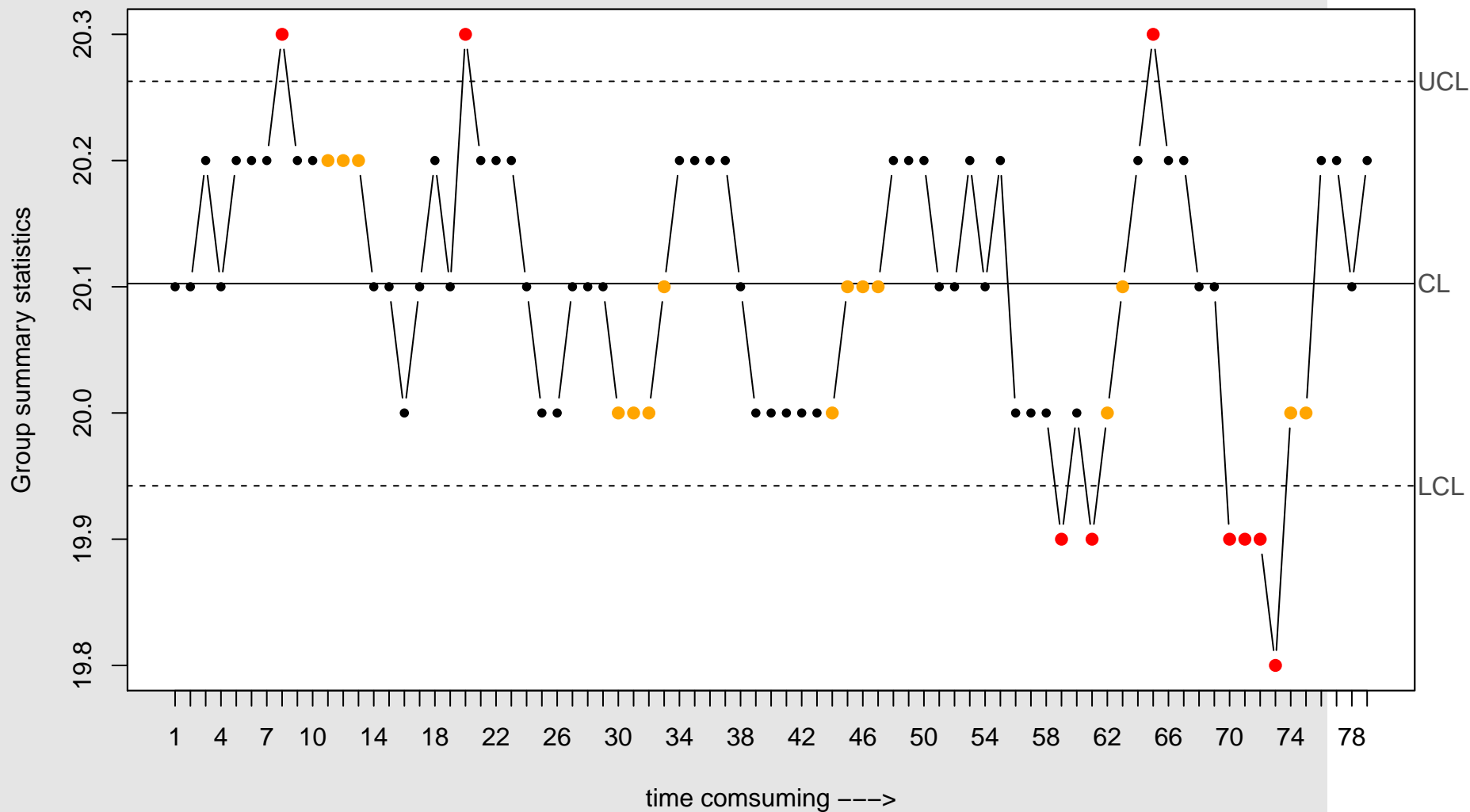


Number of groups = 79
 Center = 20.13797
 StdDev = 0.04318967

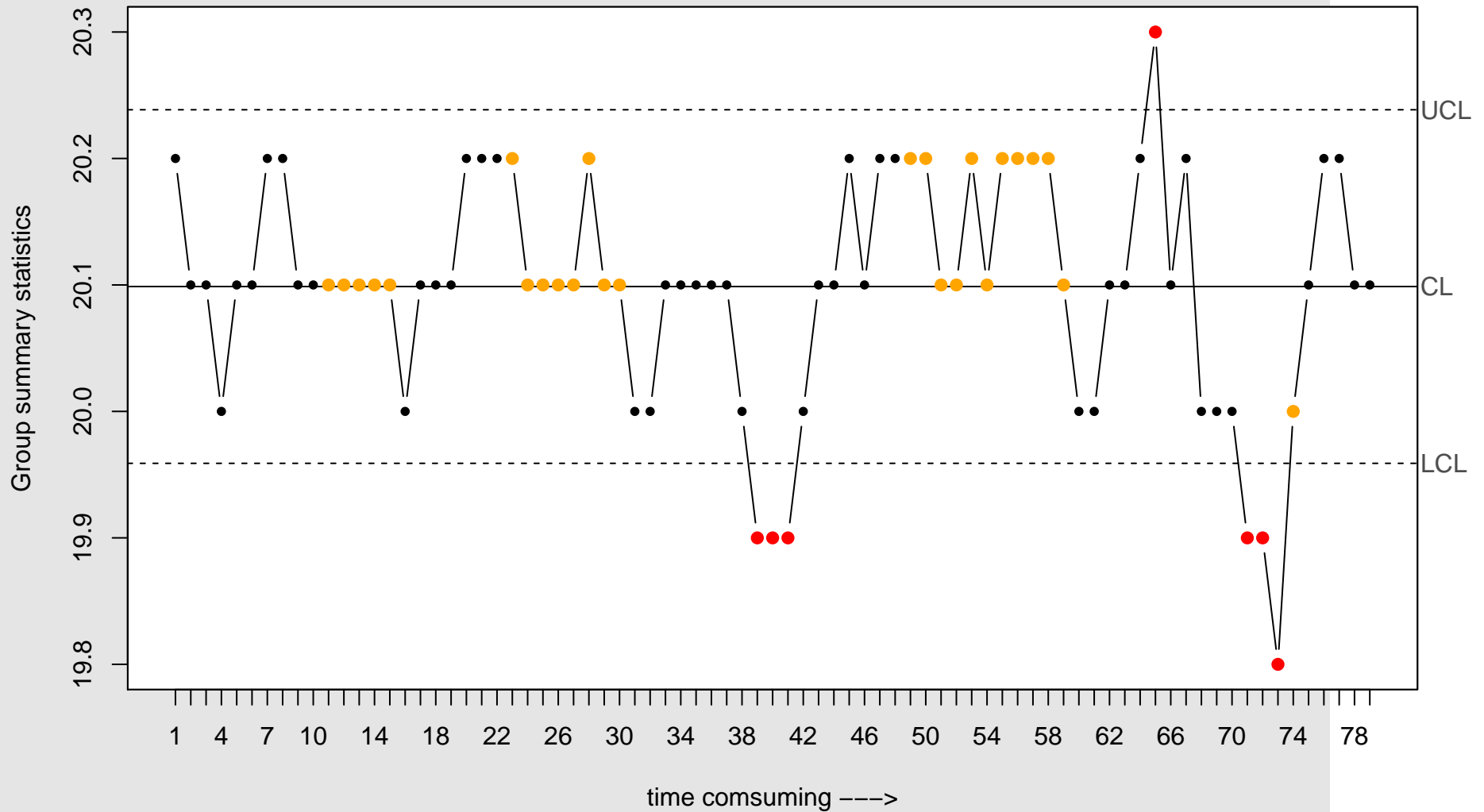
LCL = 20.00841
 UCL = 20.26754

Number beyond limits = 24
 Number violating runs = 13

34th column point of this product



35th column point of this product

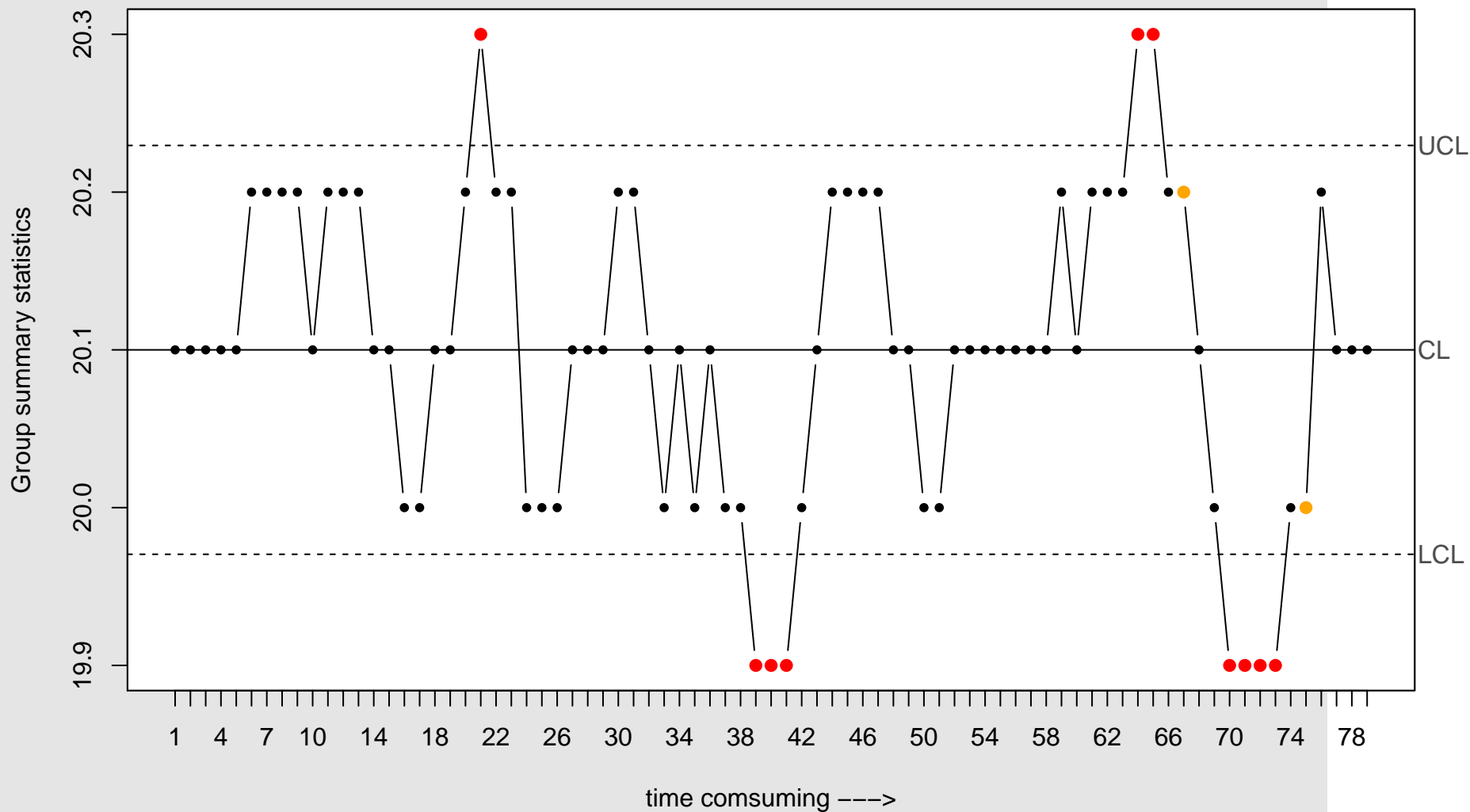


Number of groups = 79
 Center = 20.09873
 StdDev = 0.04659938

LCL = 19.95894
 UCL = 20.23853

Number beyond limits = 7
 Number violating runs = 25

36th column point of this product

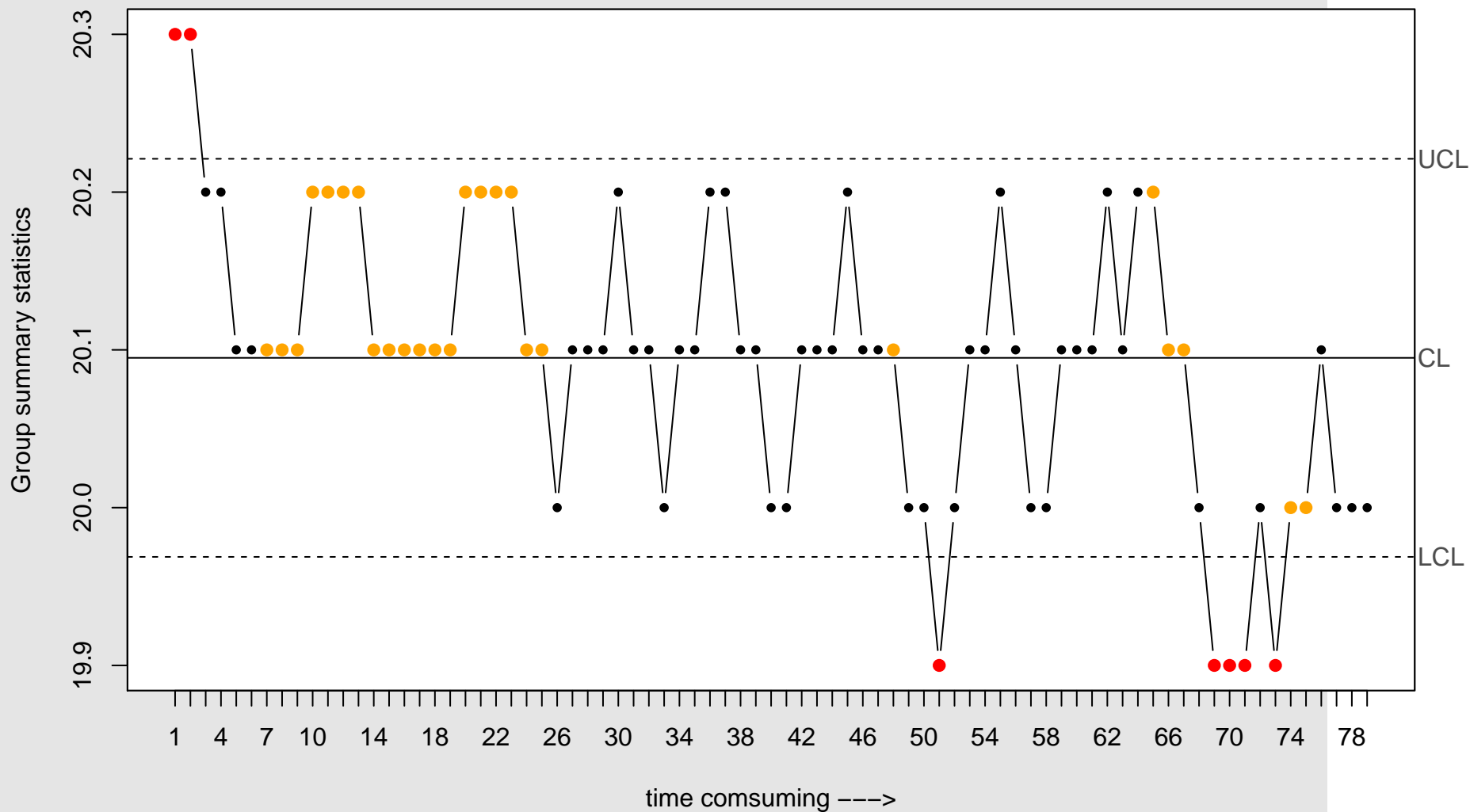


Number of groups = 79
Center = 20.1
StdDev = 0.04318967

LCL = 19.97043
UCL = 20.22957

Number beyond limits = 10
Number violating runs = 2

37th column point of this product

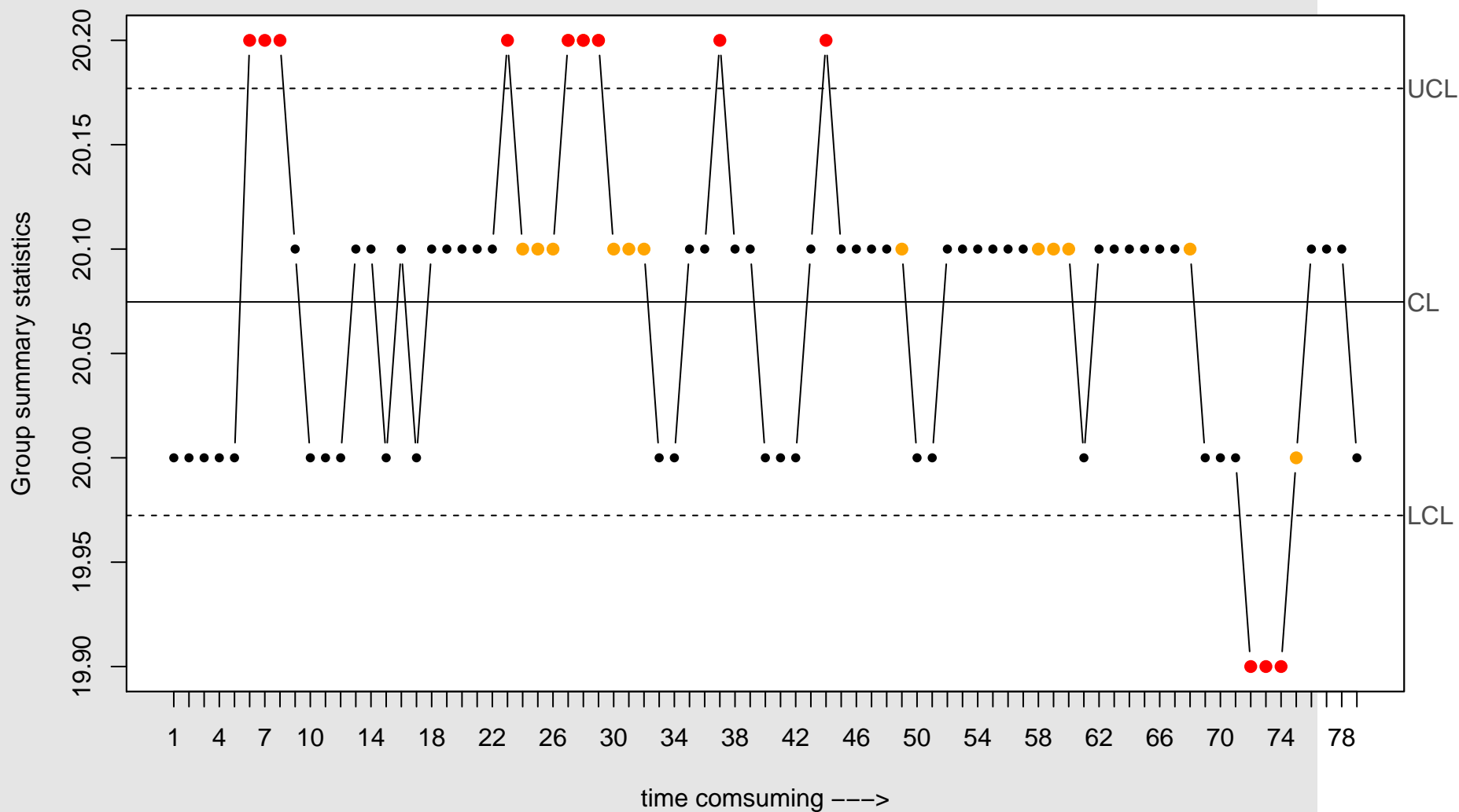


Number of groups = 79
 Center = 20.09494
 StdDev = 0.0420531

LCL = 19.96878
 UCL = 20.2211

Number beyond limits = 7
 Number violating runs = 25

38th column point of this product

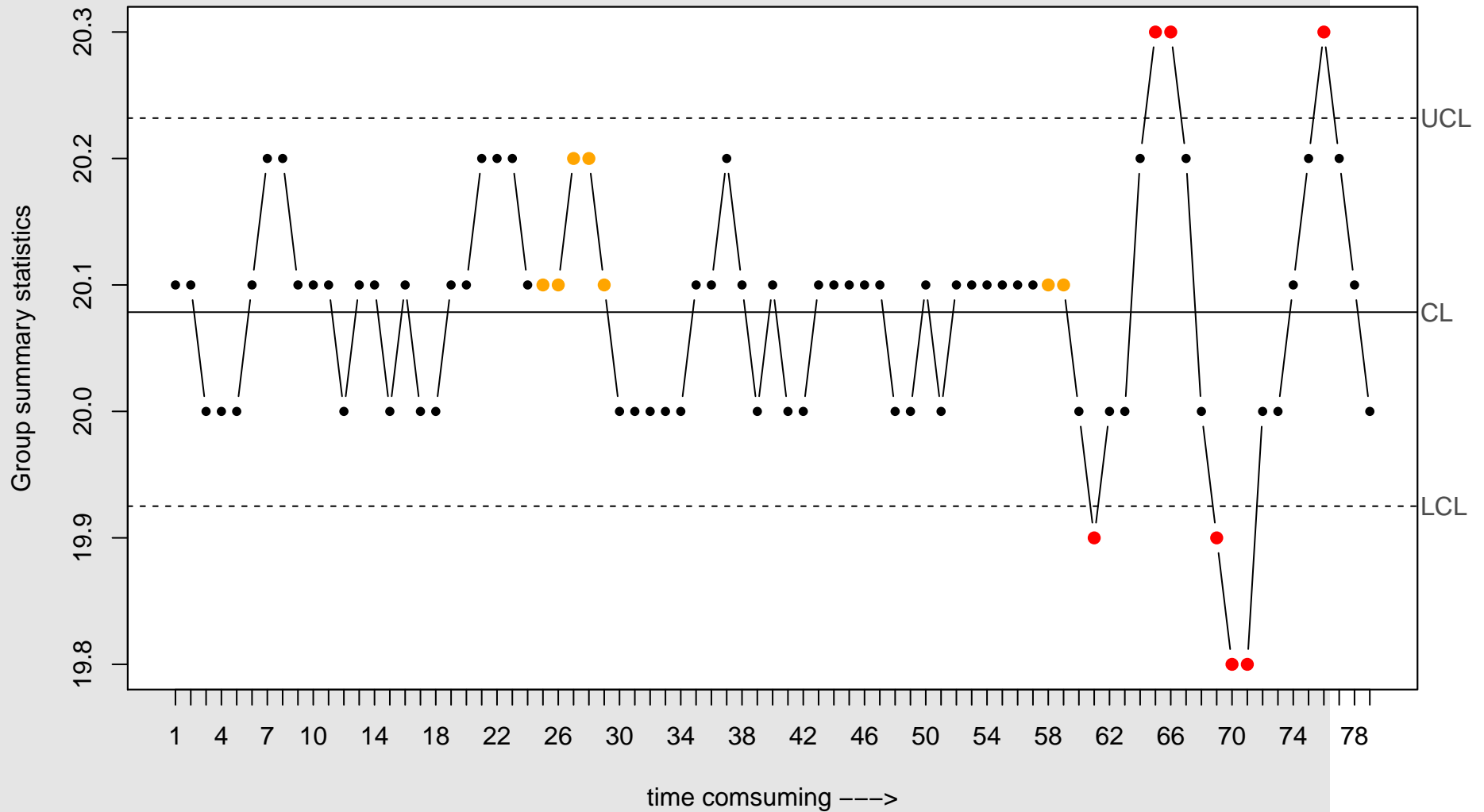


Number of groups = 79
 Center = 20.07468
 StdDev = 0.03409711

LCL = 19.97239
 UCL = 20.17697

Number beyond limits = 12
 Number violating runs = 15

39th column point of this product

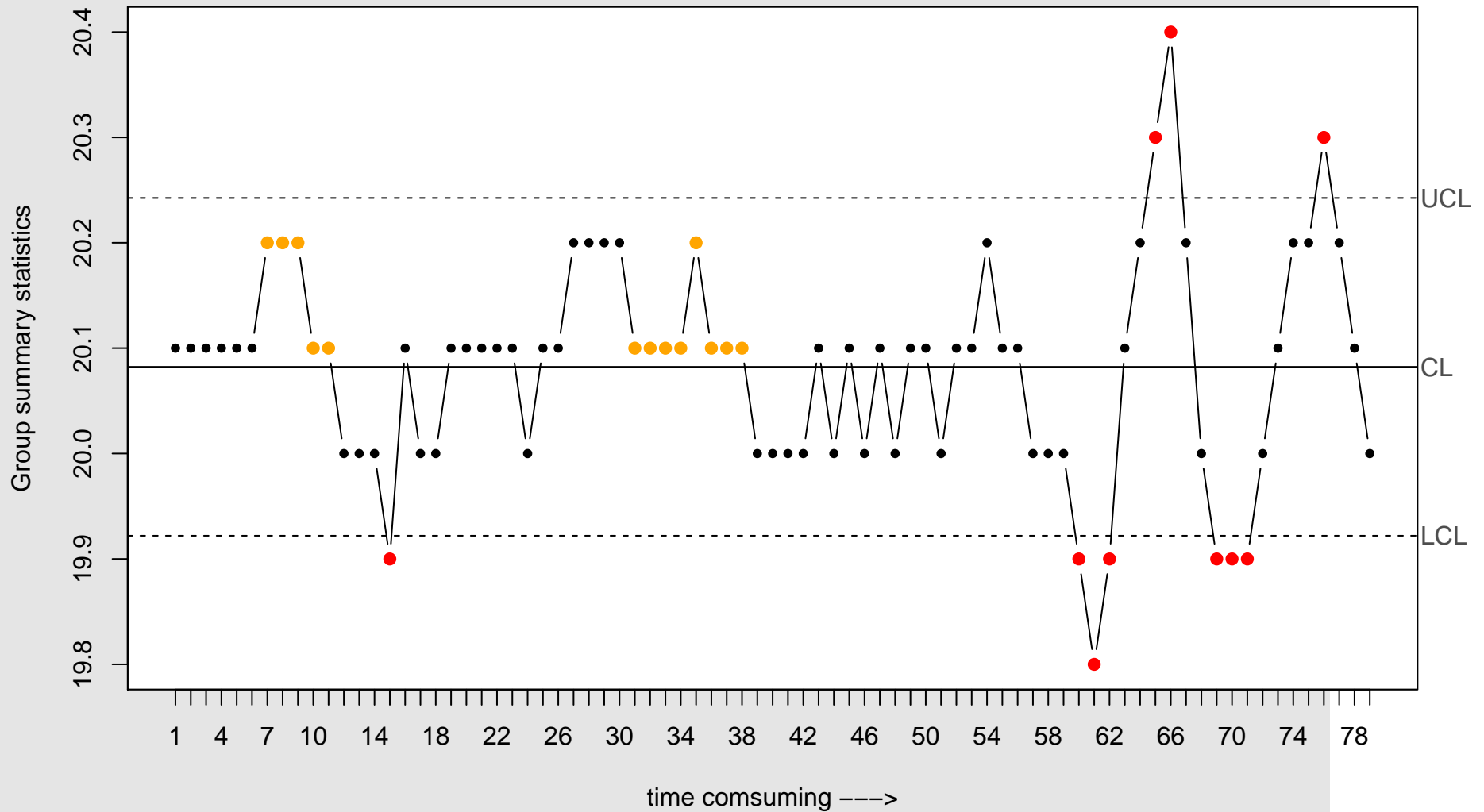


Number of groups = 79
 Center = 20.07848
 StdDev = 0.05114566

LCL = 19.92504
 UCL = 20.23192

Number beyond limits = 7
 Number violating runs = 7

40th column point of this product

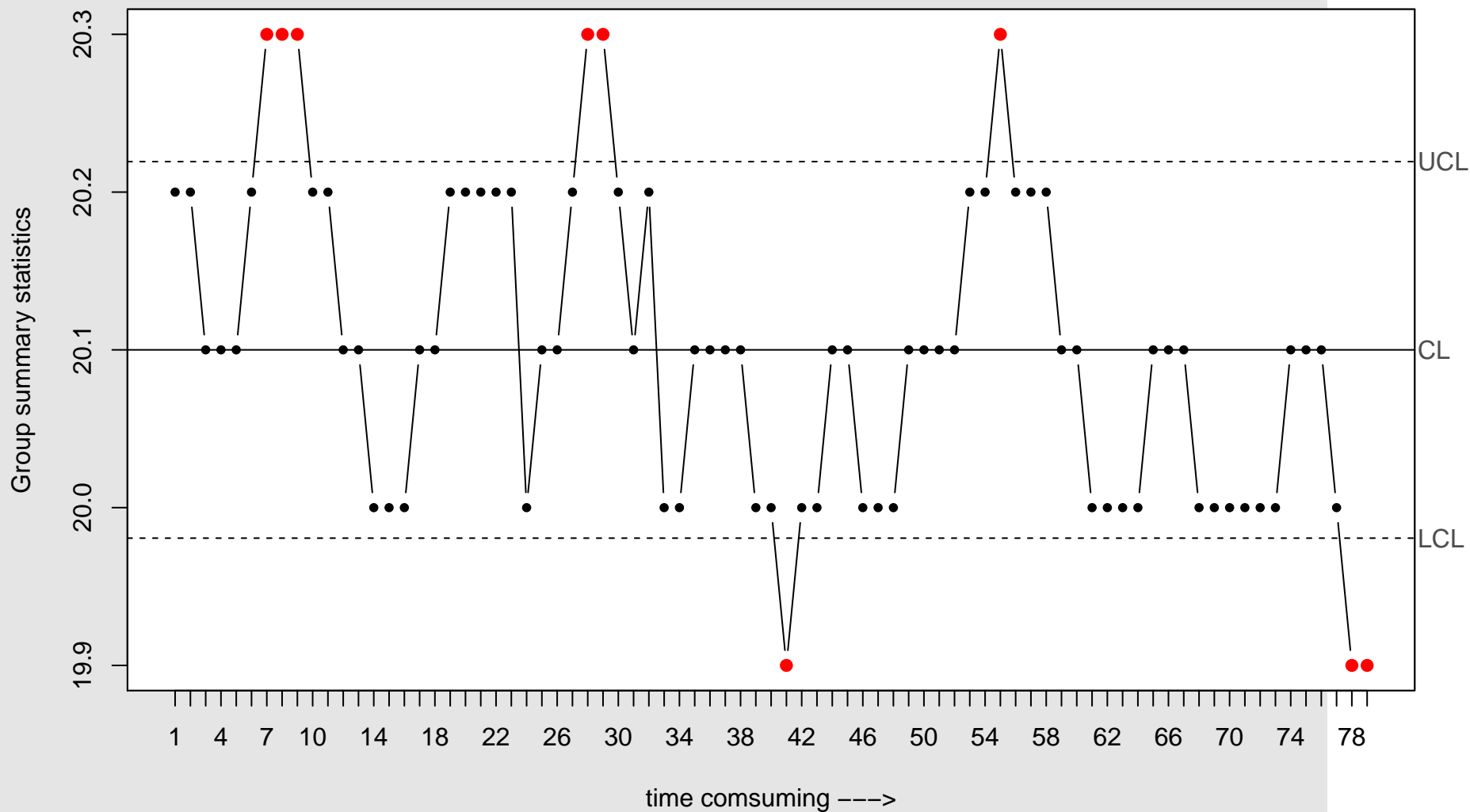


Number of groups = 79
 Center = 20.08228
 StdDev = 0.0534188

LCL = 19.92202
 UCL = 20.24253

Number beyond limits = 10
 Number violating runs = 13

41th column point of this product

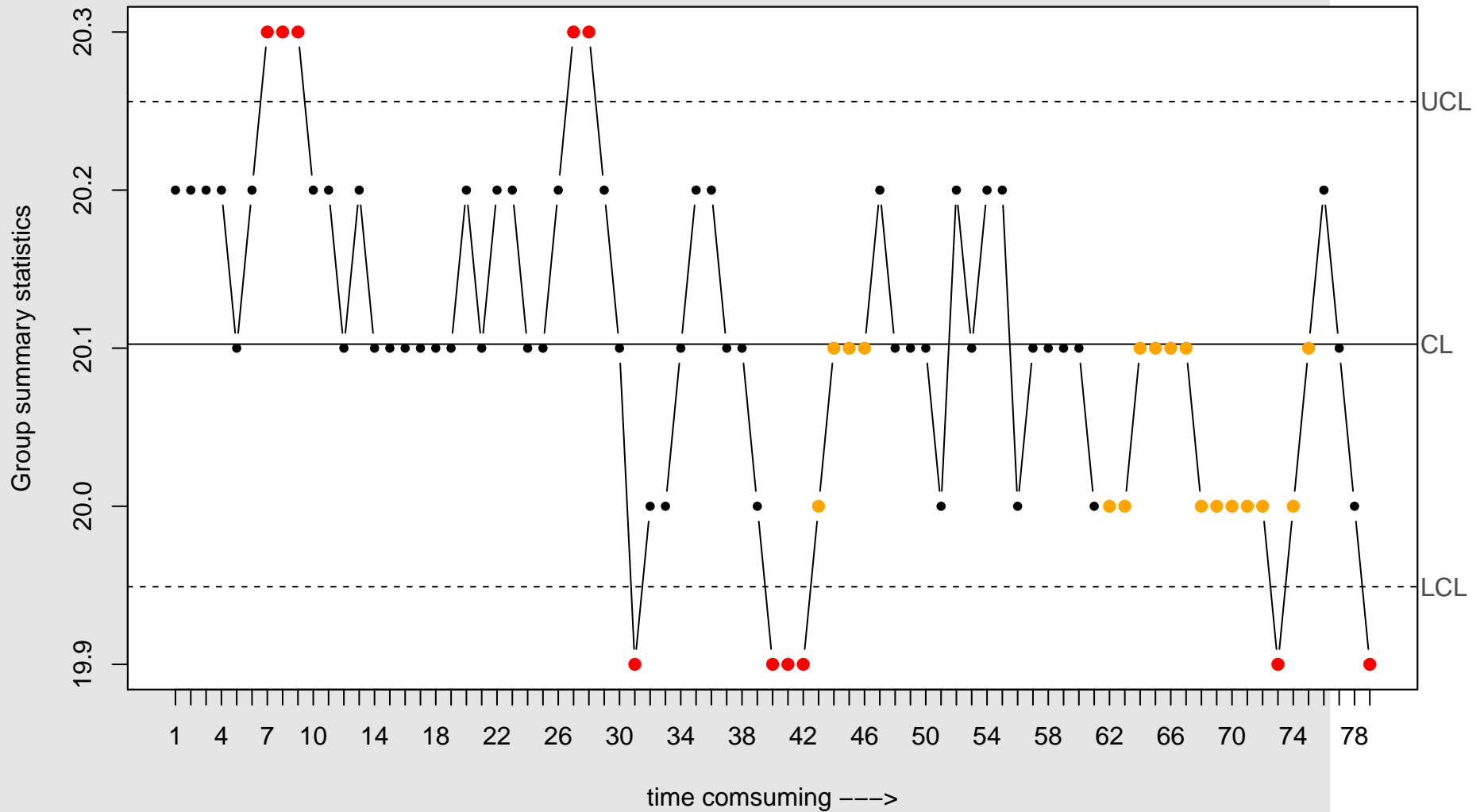


Number of groups = 79
Center = 20.1
StdDev = 0.03977996

LCL = 19.98066
UCL = 20.2134

Number beyond limits = 9
Number violating runs = 0

42th column point of this product

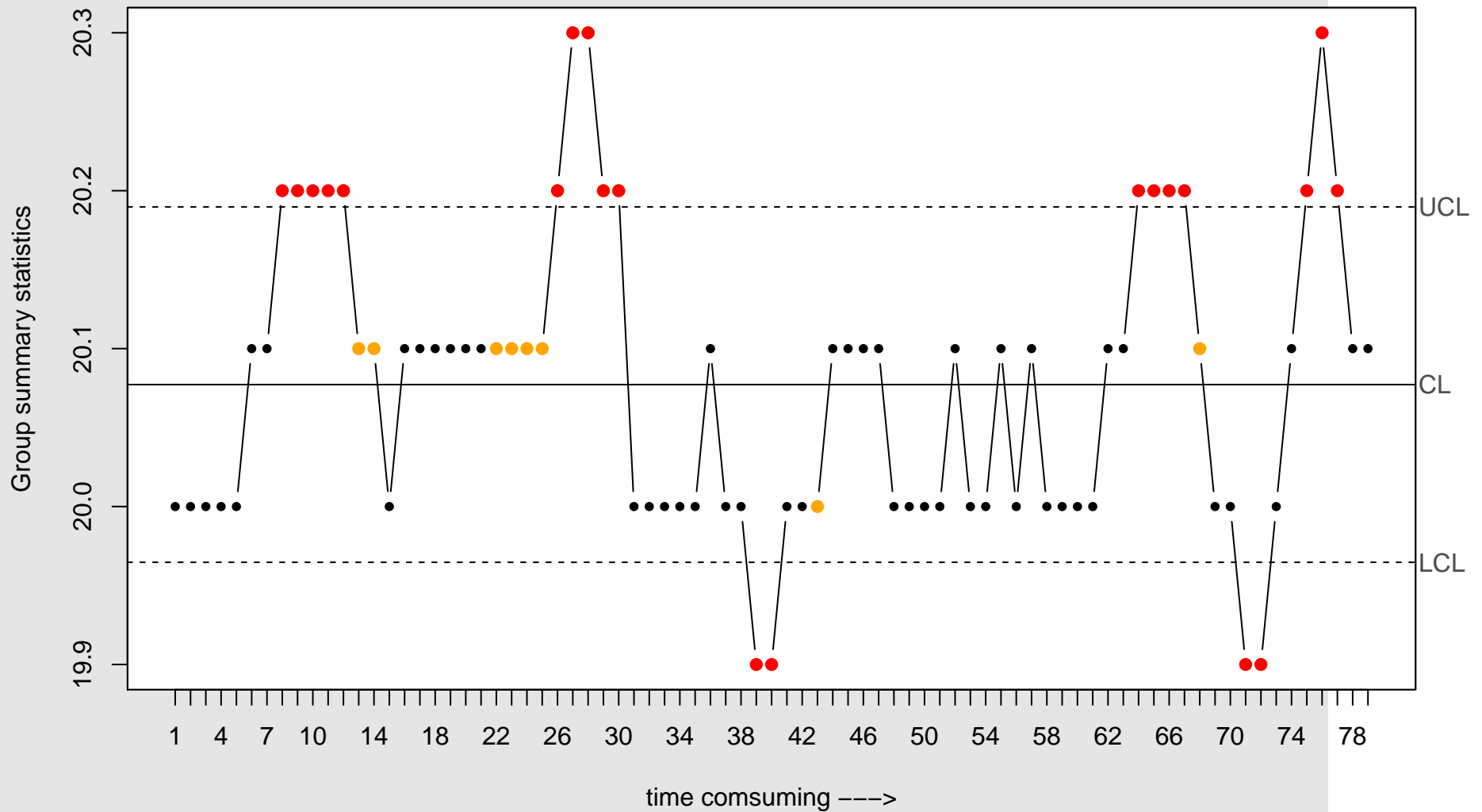


Number of groups = 79
 Center = 20.10253
 StdDev = 0.05114566

LCL = 19.94909
 UCL = 20.25597

Number beyond limits = 11
 Number violating runs = 18

43th column point of this product

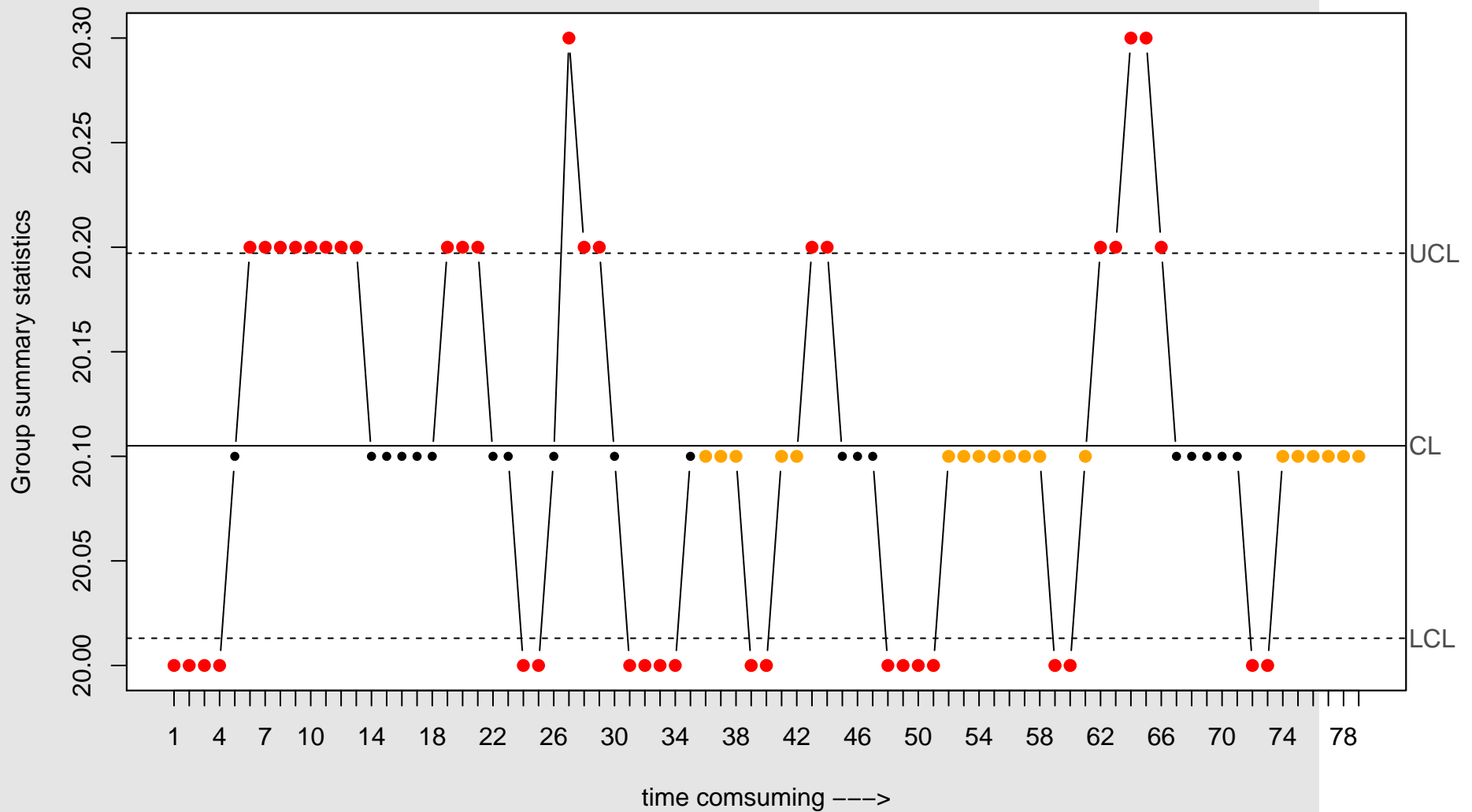


Number of groups = 79
 Center = 20.07722
 StdDev = 0.03750682

LCL = 19.96469
 UCL = 20.18974

Number beyond limits = 21
 Number violating runs = 14

44th column point of this product



Number of groups = 79

Center = 20.10506

StdDev = 0.0306874

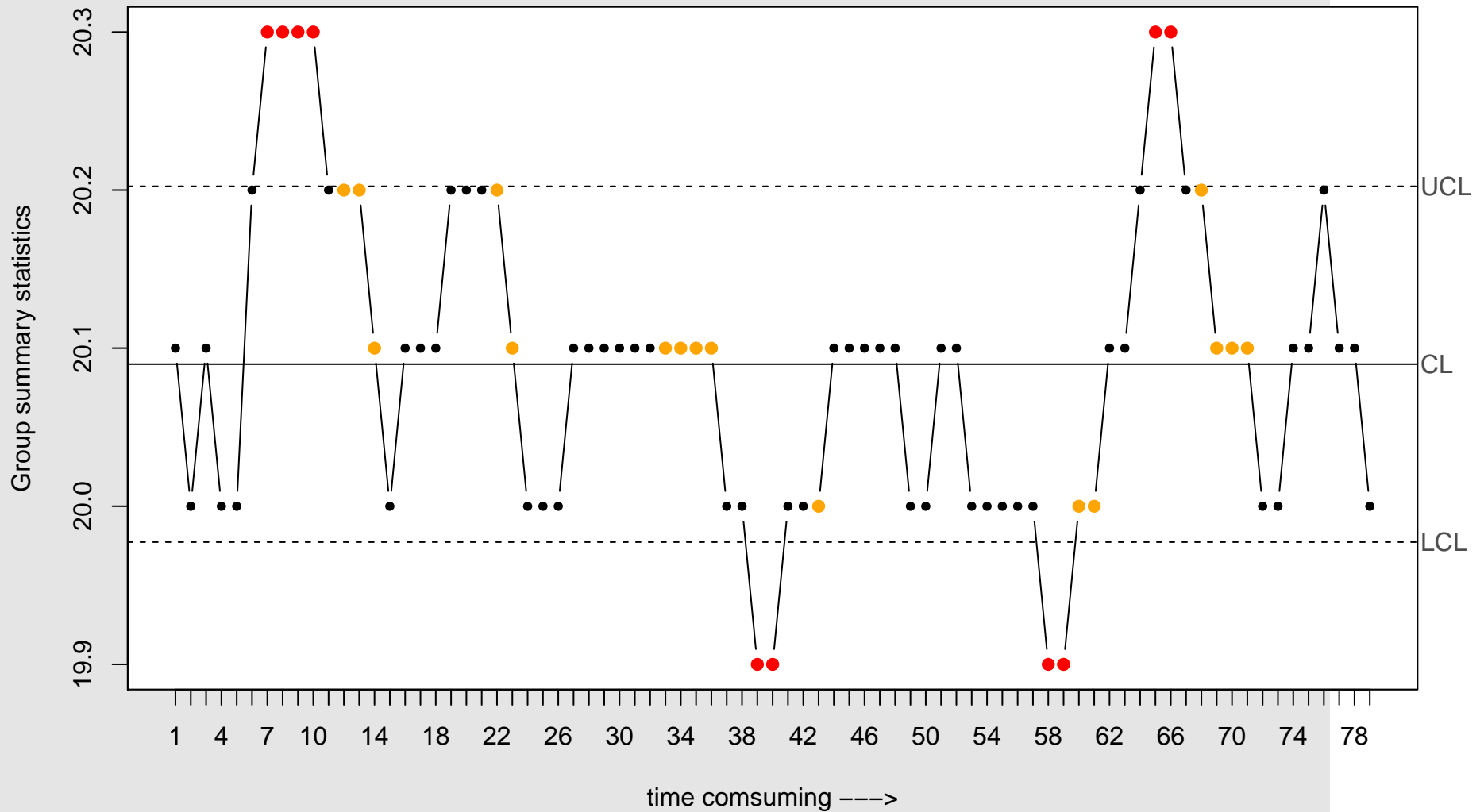
LCL = 20.013

UCL = 20.19713

Number beyond limits = 41

Number violating runs = 27

45th column point of this product

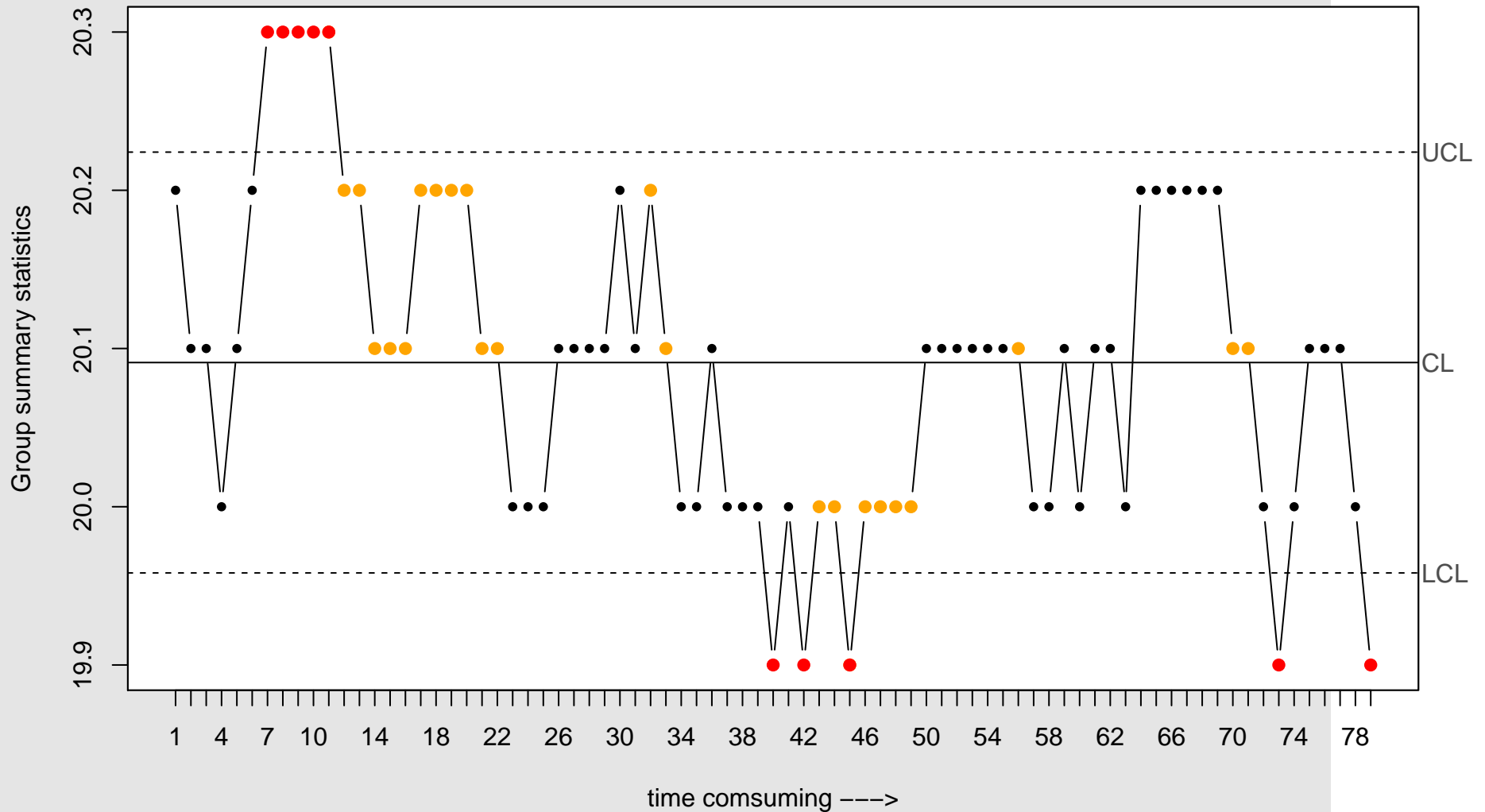


Number of groups = 79
Center = 20.08987
StdDev = 0.03750682

LCL = 19.97735
UCL = 20.20239

Number beyond limits = 10
Number violating runs = 17

46th column point of this product

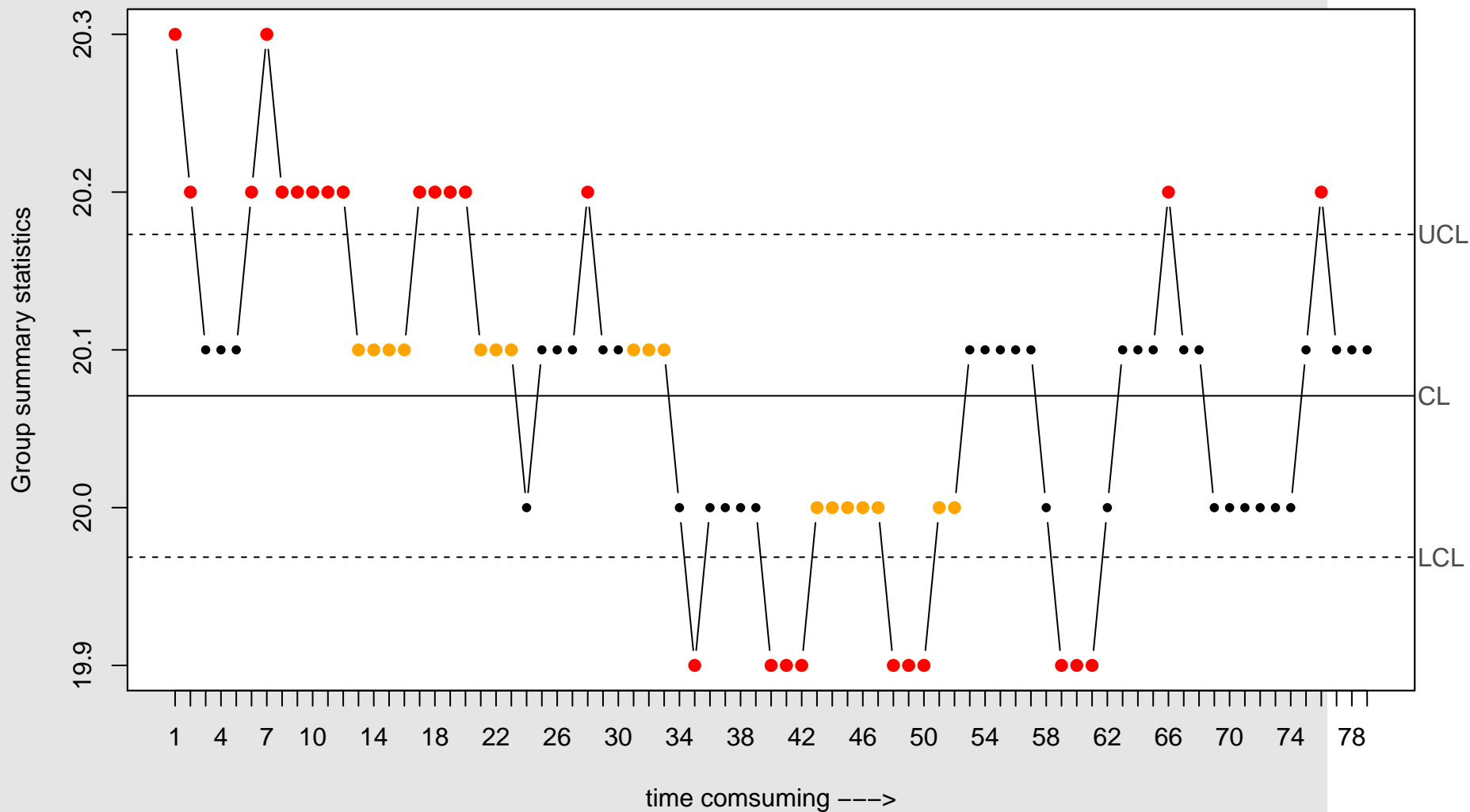


Number of groups = 79
Center = 20.09114
StdDev = 0.04432624

LCL = 19.95816
UCL = 20.22412

Number beyond limits = 10
Number violating runs = 24

47th column point of this product

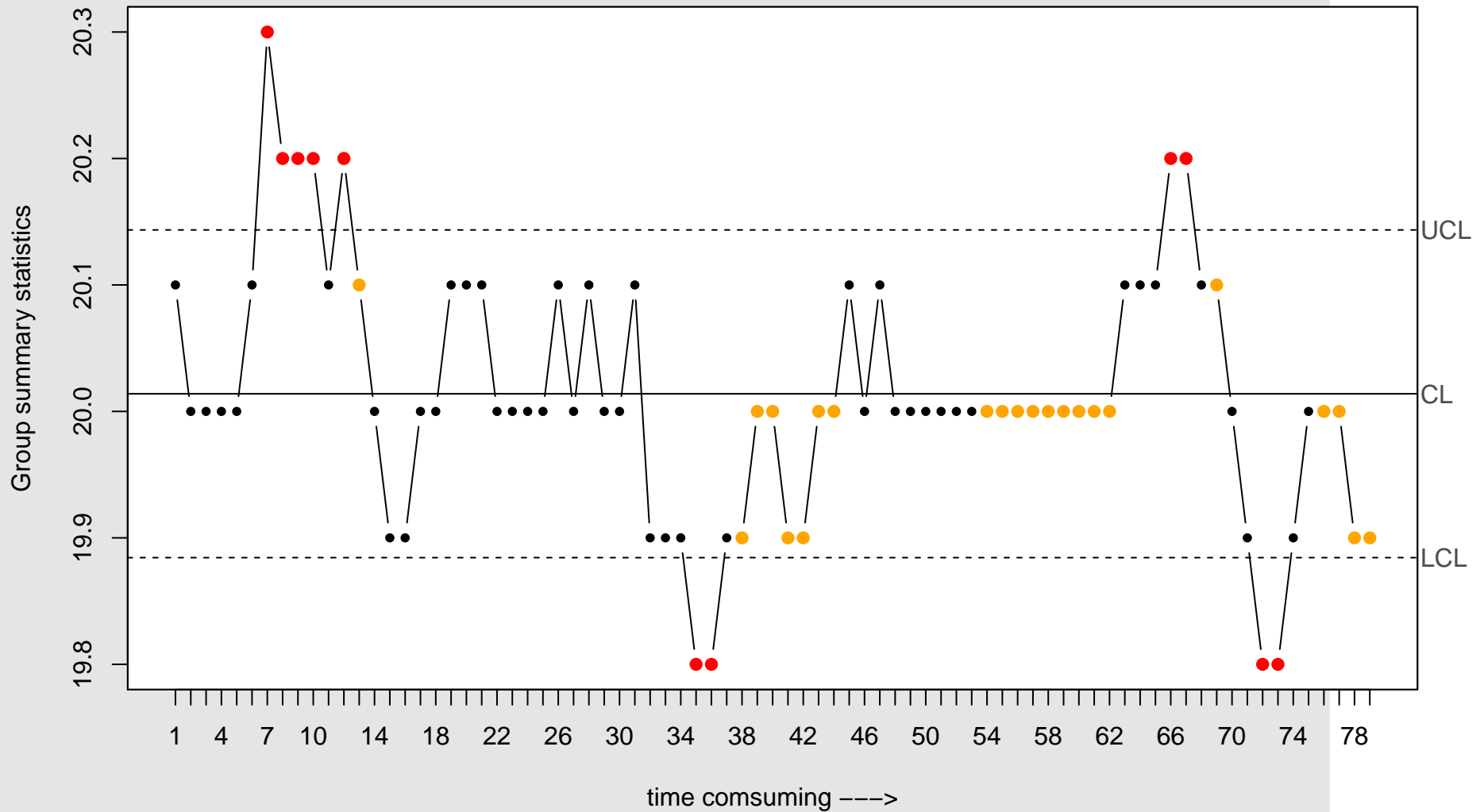


Number of groups = 79
Center = 20.07089
StdDev = 0.03409711

LCL = 19.96859
UCL = 20.17318

Number beyond limits = 26
Number violating runs = 33

48th column point of this product

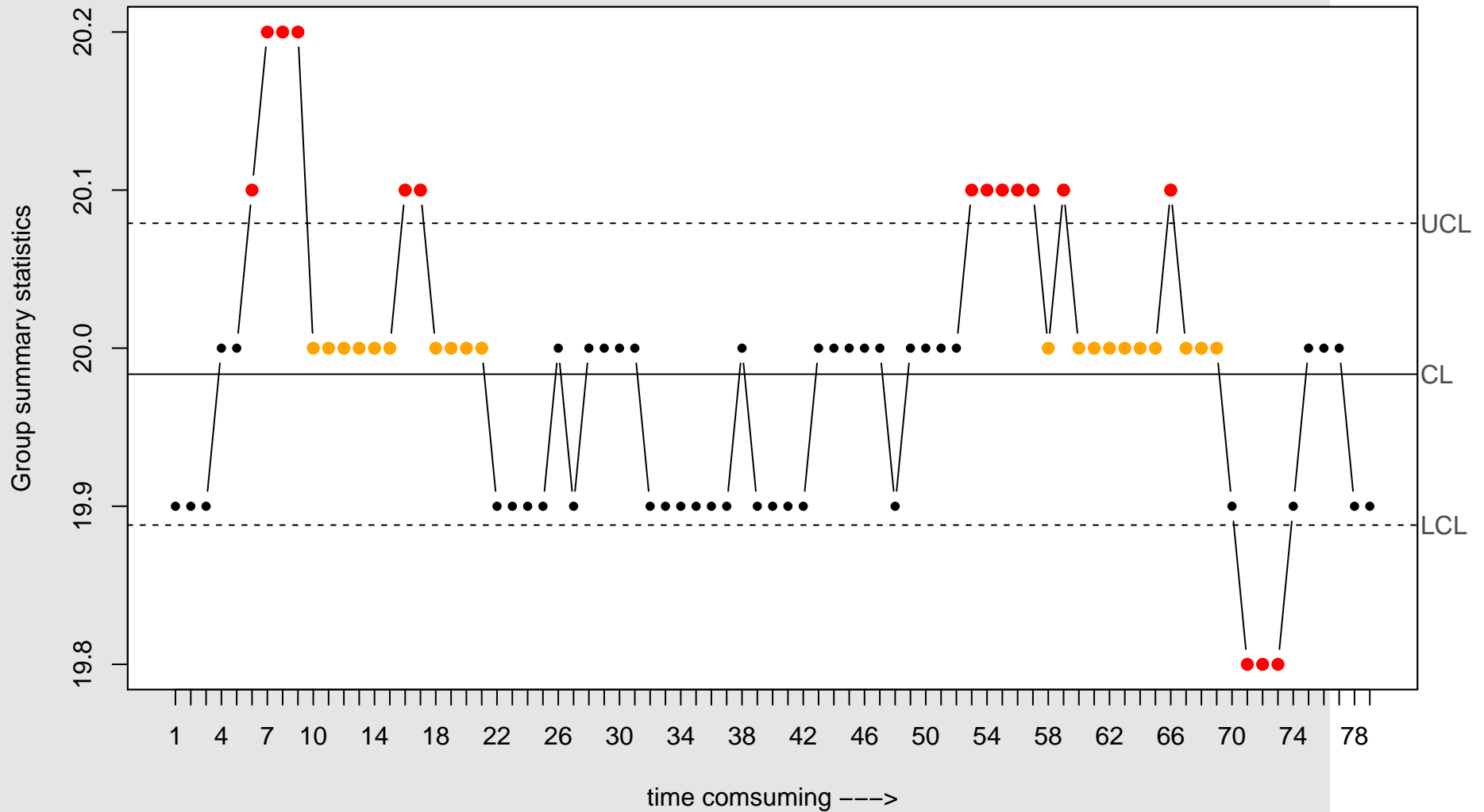


Number of groups = 79
 Center = 20.01392
 StdDev = 0.04318967

LCL = 19.88436
 UCL = 20.14349

Number beyond limits = 11
 Number violating runs = 23

49th column point of this product

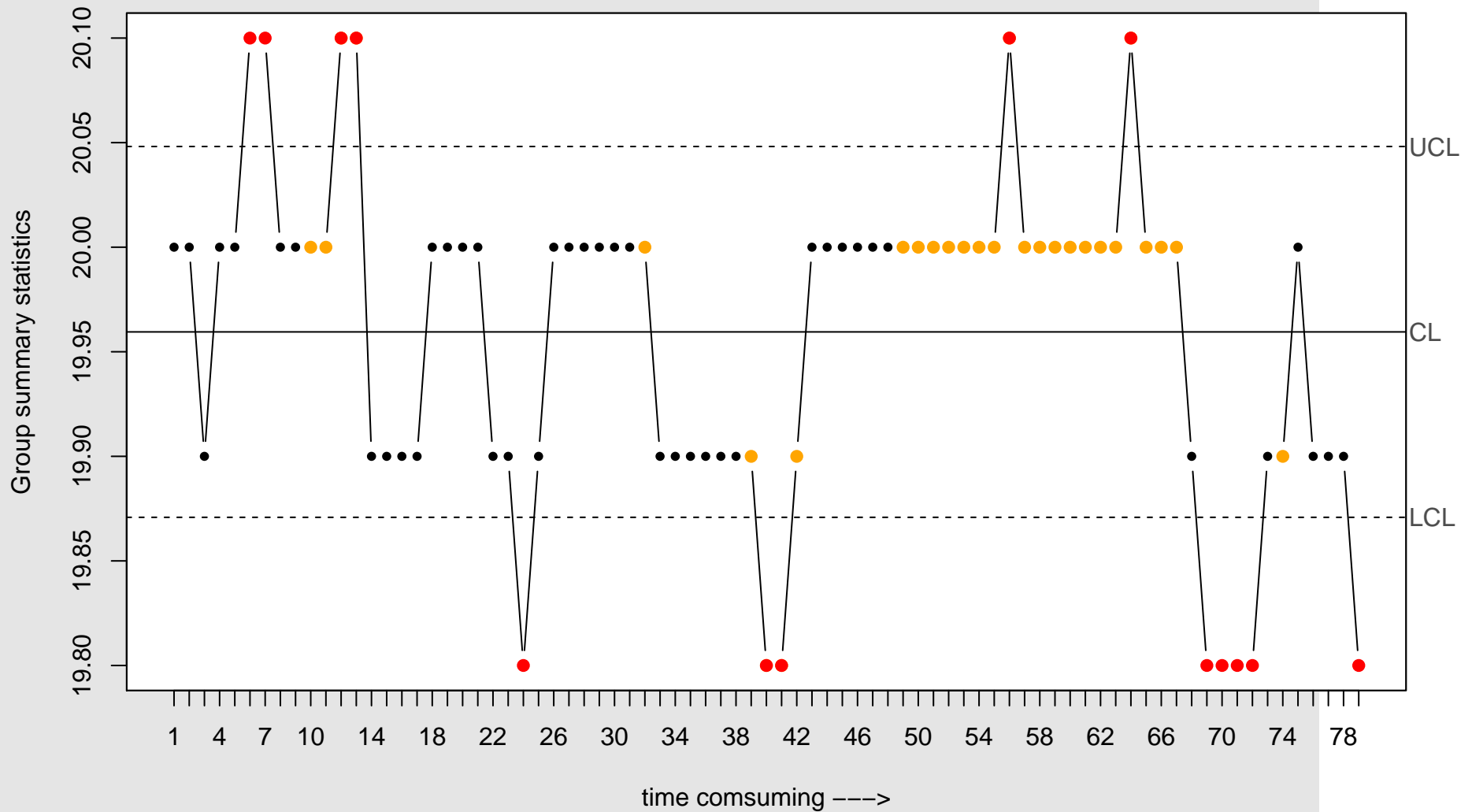


Number of groups = 79
 Center = 19.98354
 StdDev = 0.03182397

LCL = 19.88807
 UCL = 20.07902

Number beyond limits = 16
 Number violating runs = 27

50th column point of this product

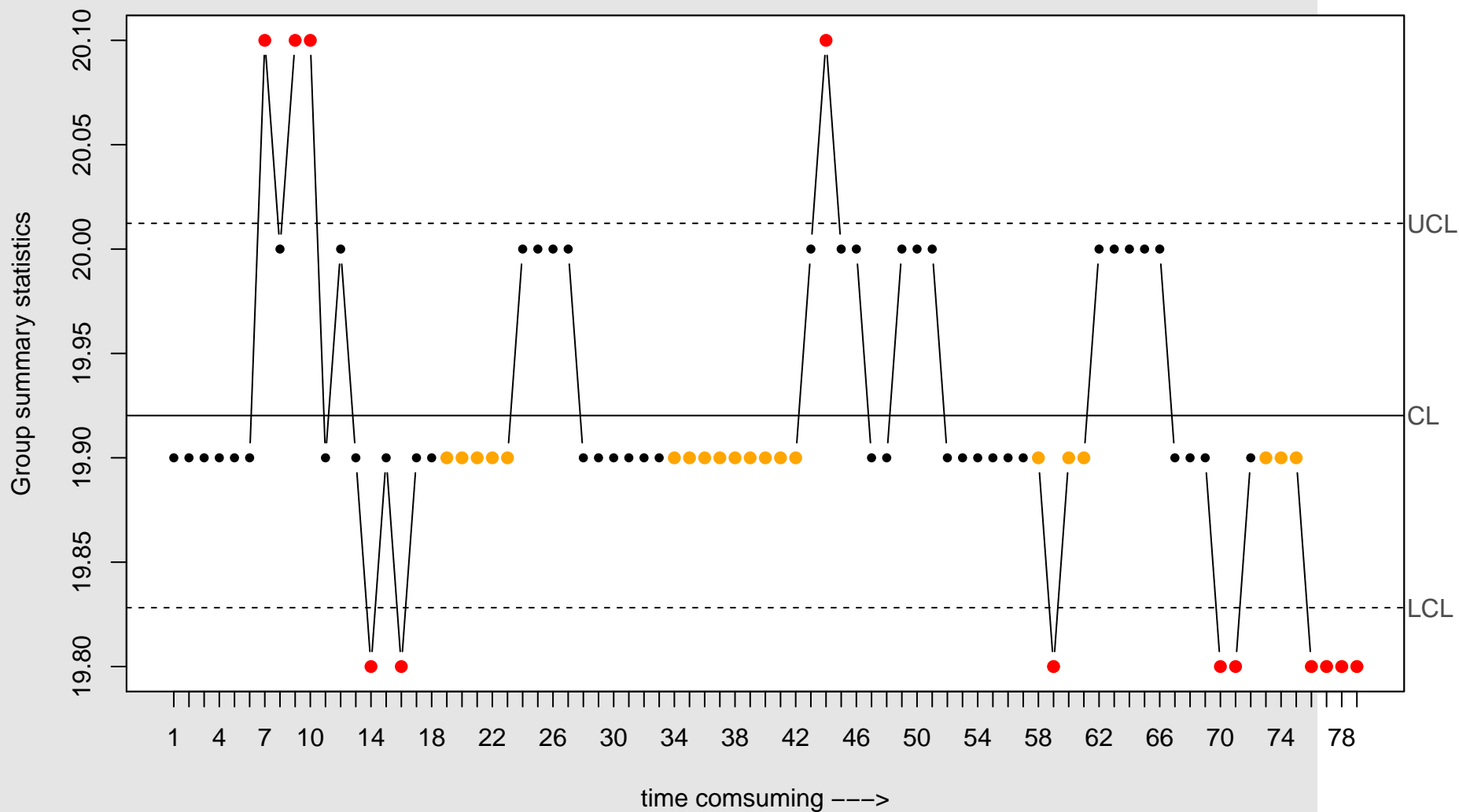


Number of groups = 79
 Center = 19.95949
 StdDev = 0.02955083

LCL = 19.87084
 UCL = 20.04815

Number beyond limits = 14
 Number violating runs = 29

51th column point of this product

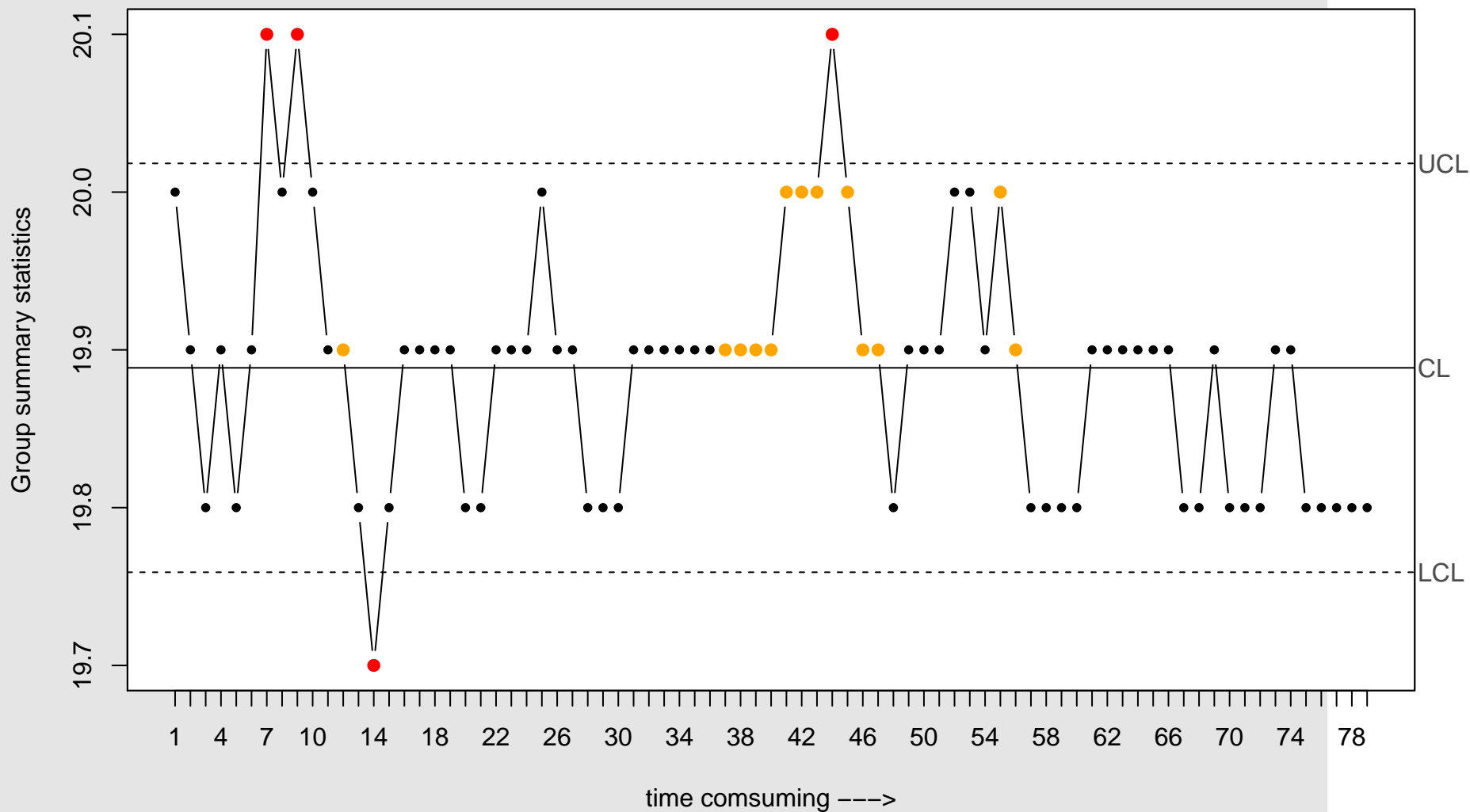


Number of groups = 79
 Center = 19.92025
 StdDev = 0.0306874

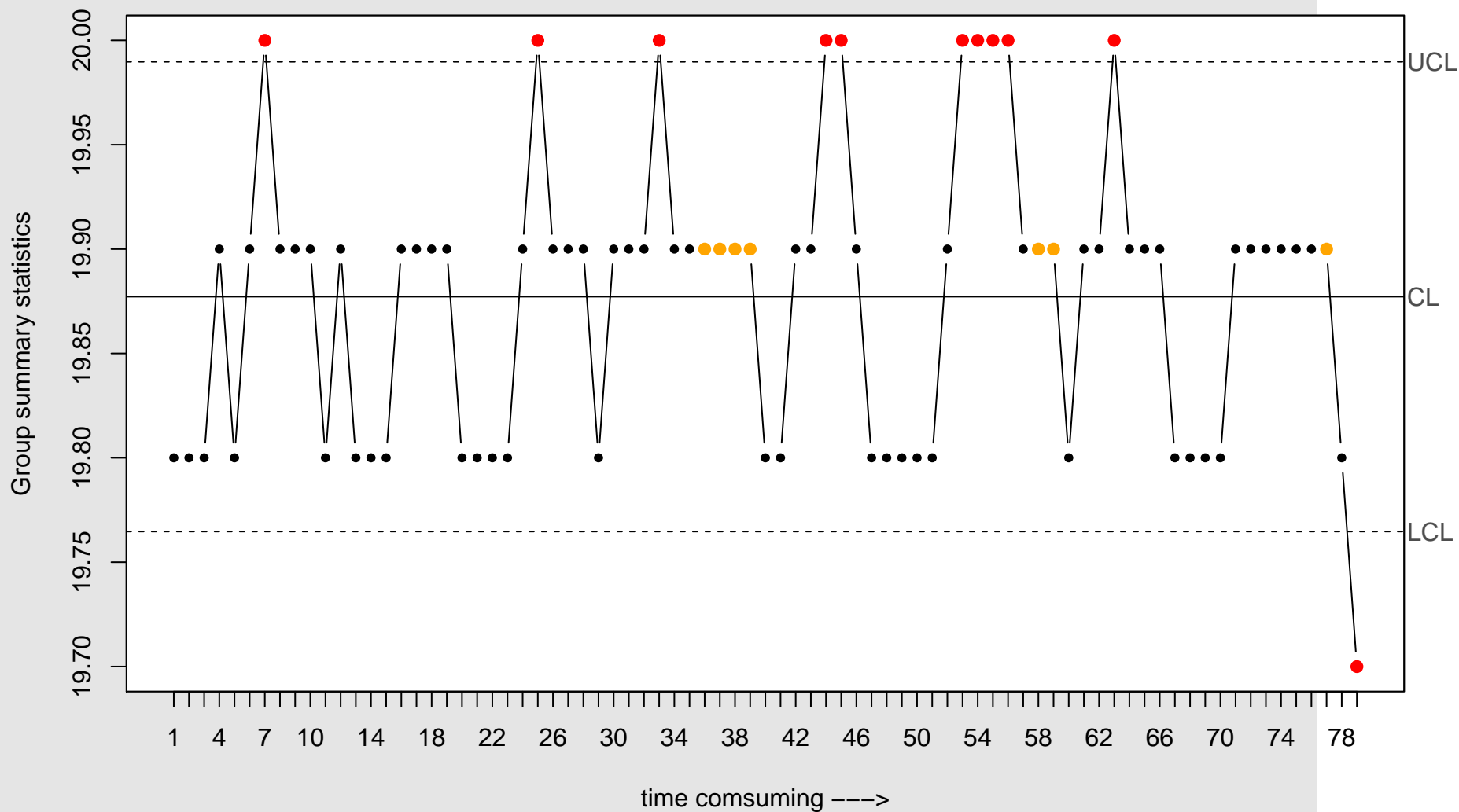
LCL = 19.82819
 UCL = 20.01232

Number beyond limits = 13
 Number violating runs = 25

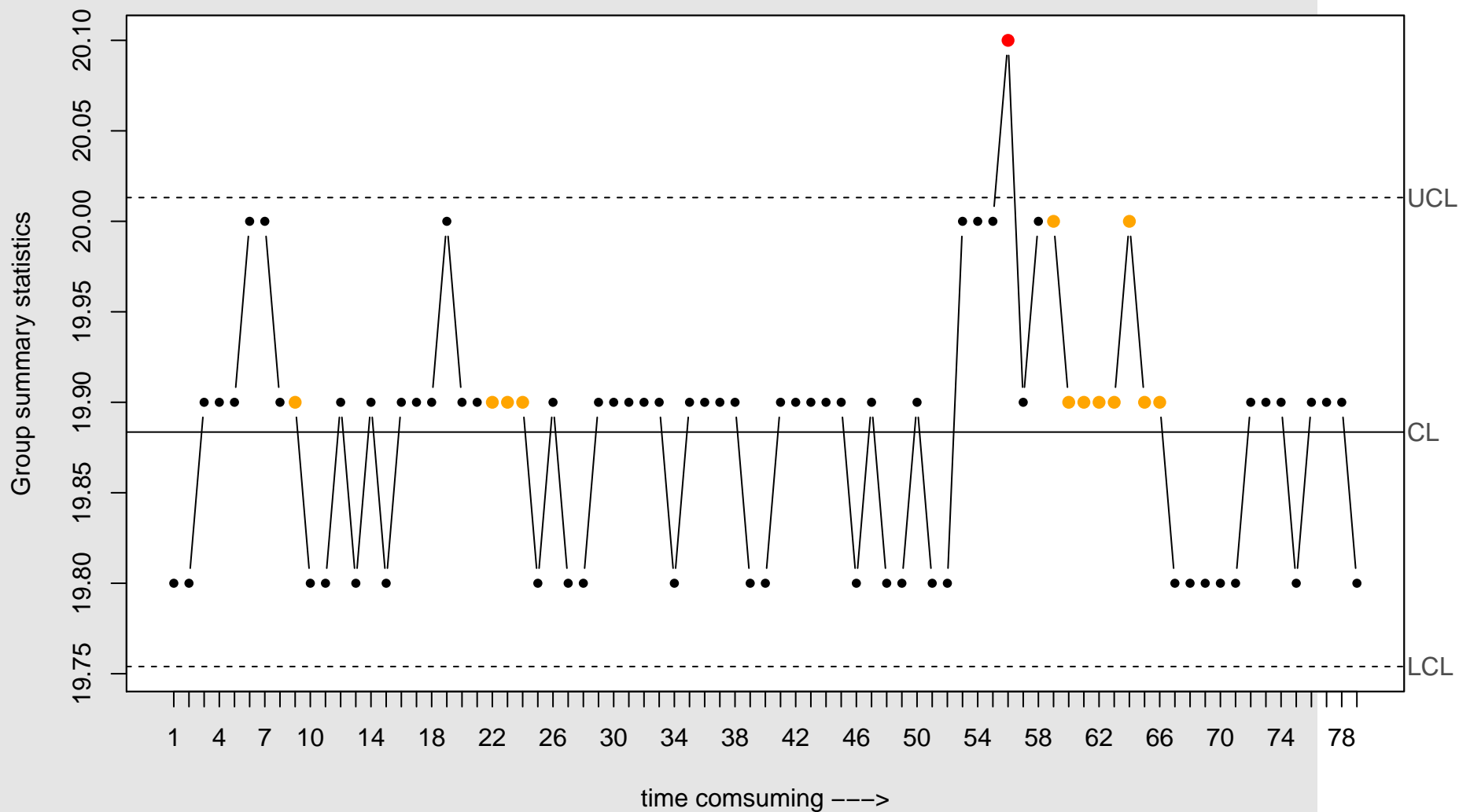
52th column point of this product



53th column point of this product



54th column point of this product

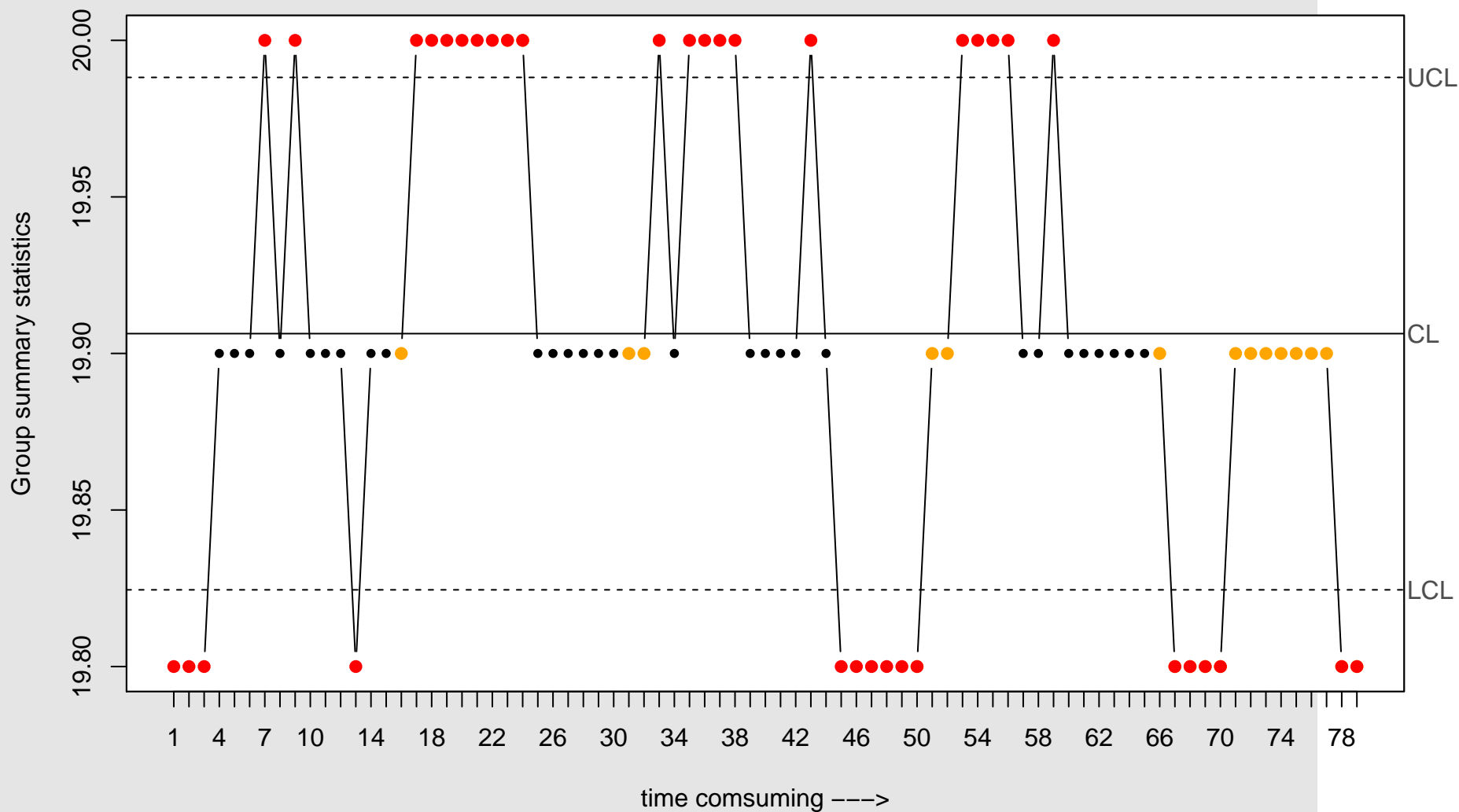


Number of groups = 79
Center = 19.88354
StdDev = 0.04318967

LCL = 19.75398
UCL = 20.01311

Number beyond limits = 1
Number violating runs = 12

55th column point of this product

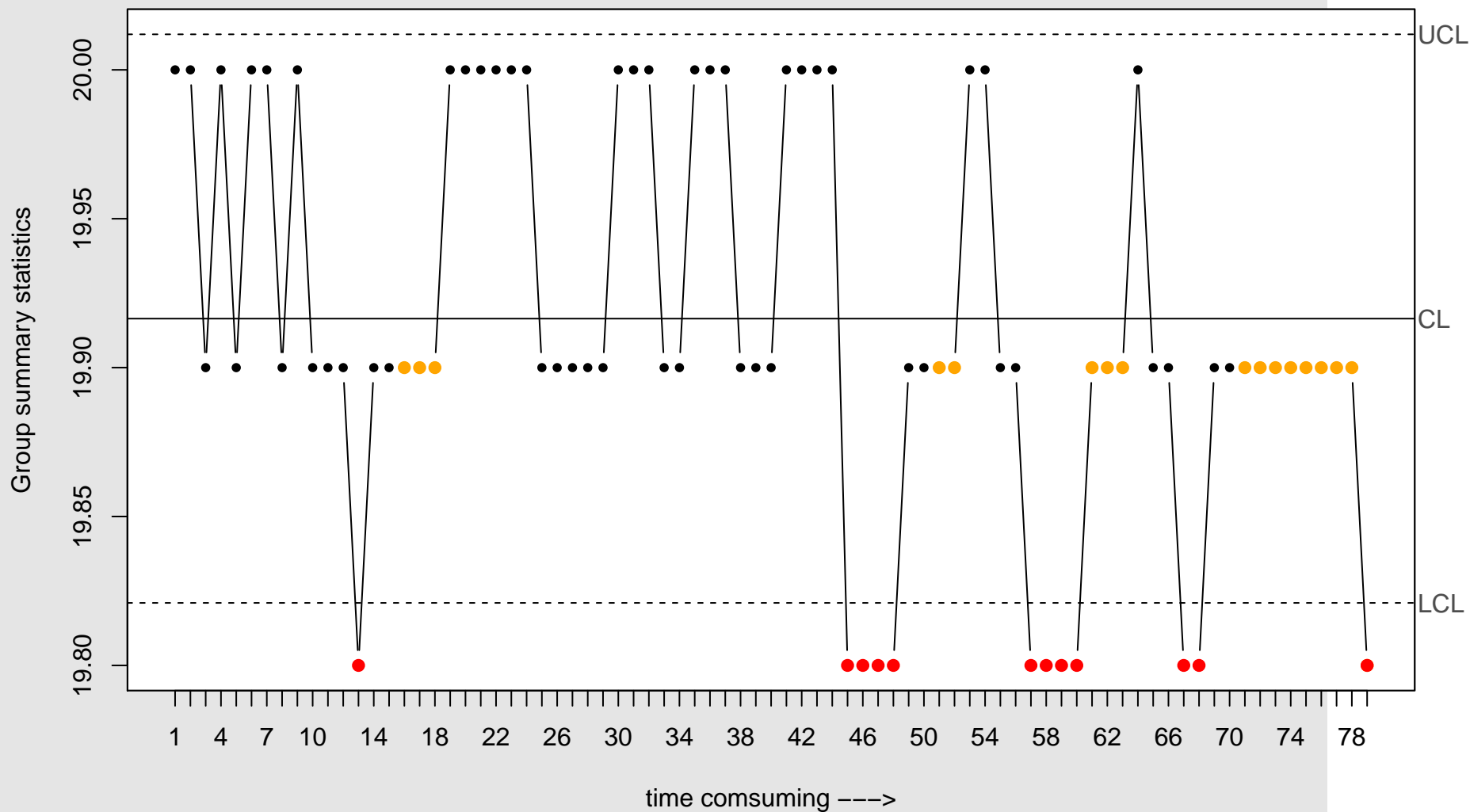


Number of groups = 79
Center = 19.90633
StdDev = 0.02727769

LCL = 19.8245
UCL = 19.98816

Number beyond limits = 37
Number violating runs = 22

56th column point of this product

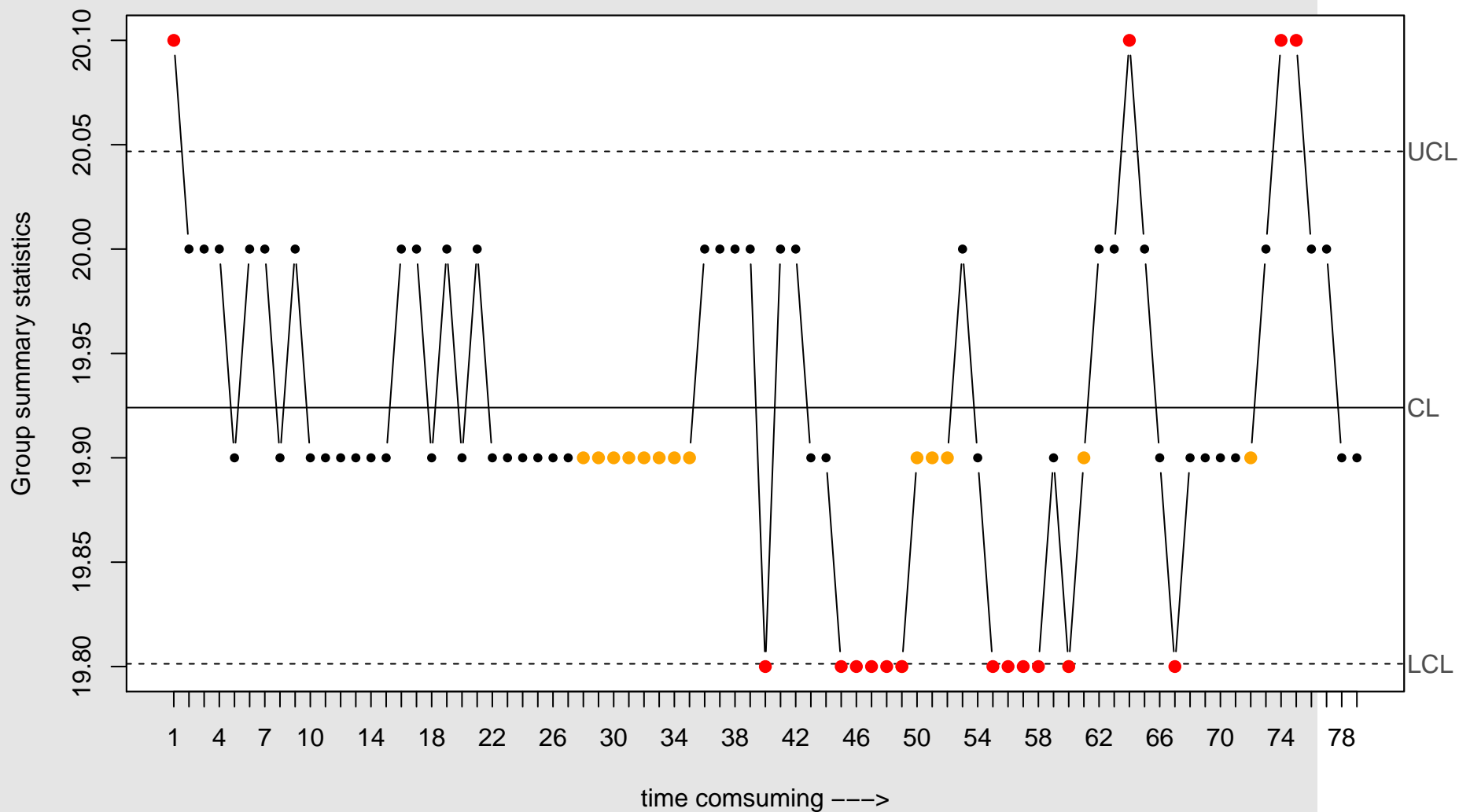


Number of groups = 79
Center = 19.91646
StdDev = 0.03182397

LCL = 19.82098
UCL = 20.01193

Number beyond limits = 12
Number violating runs = 17

57th column point of this product

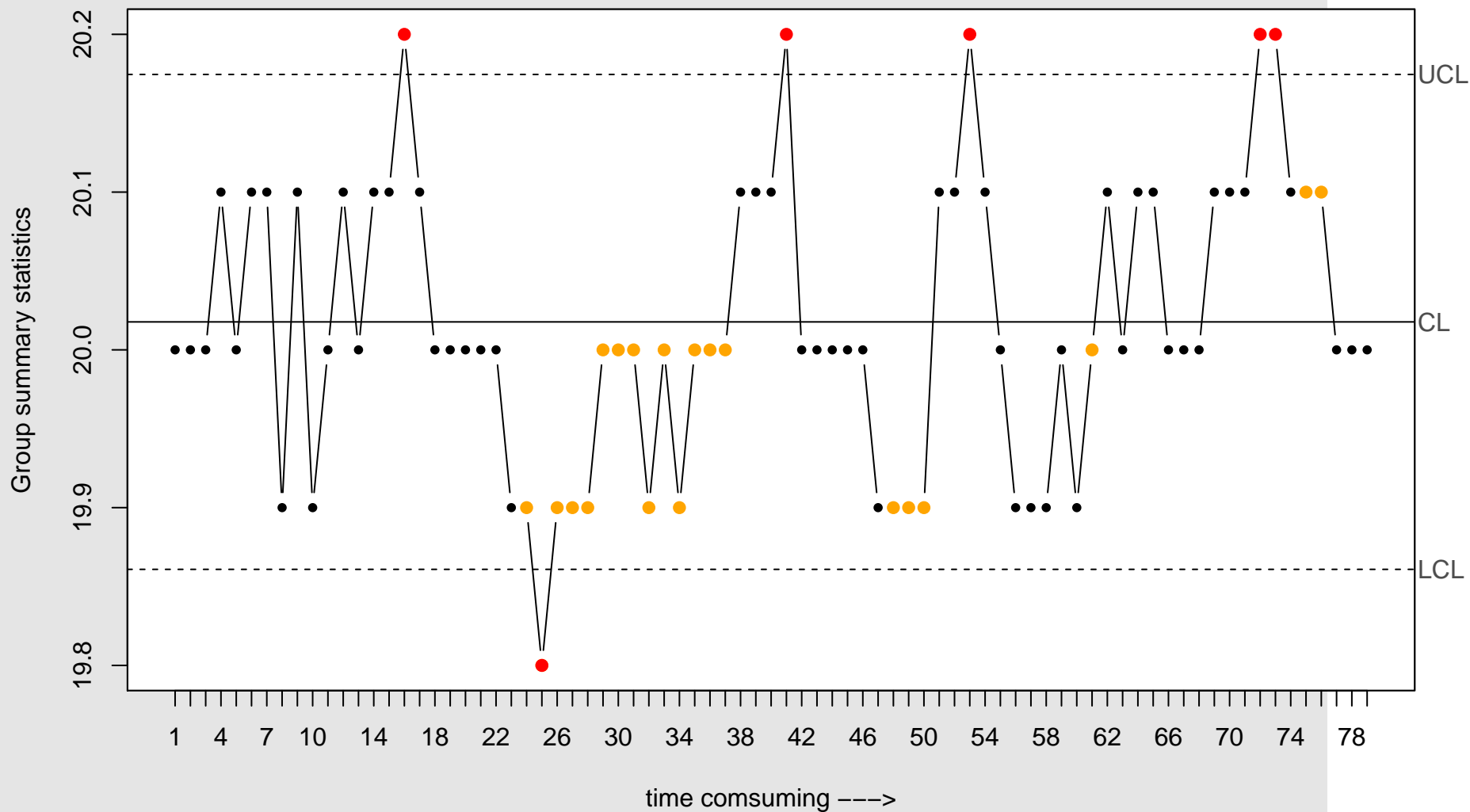


Number of groups = 79
Center = 19.92405
StdDev = 0.04091653

LCL = 19.8013
UCL = 20.0468

Number beyond limits = 16
Number violating runs = 15

58th column point of this product

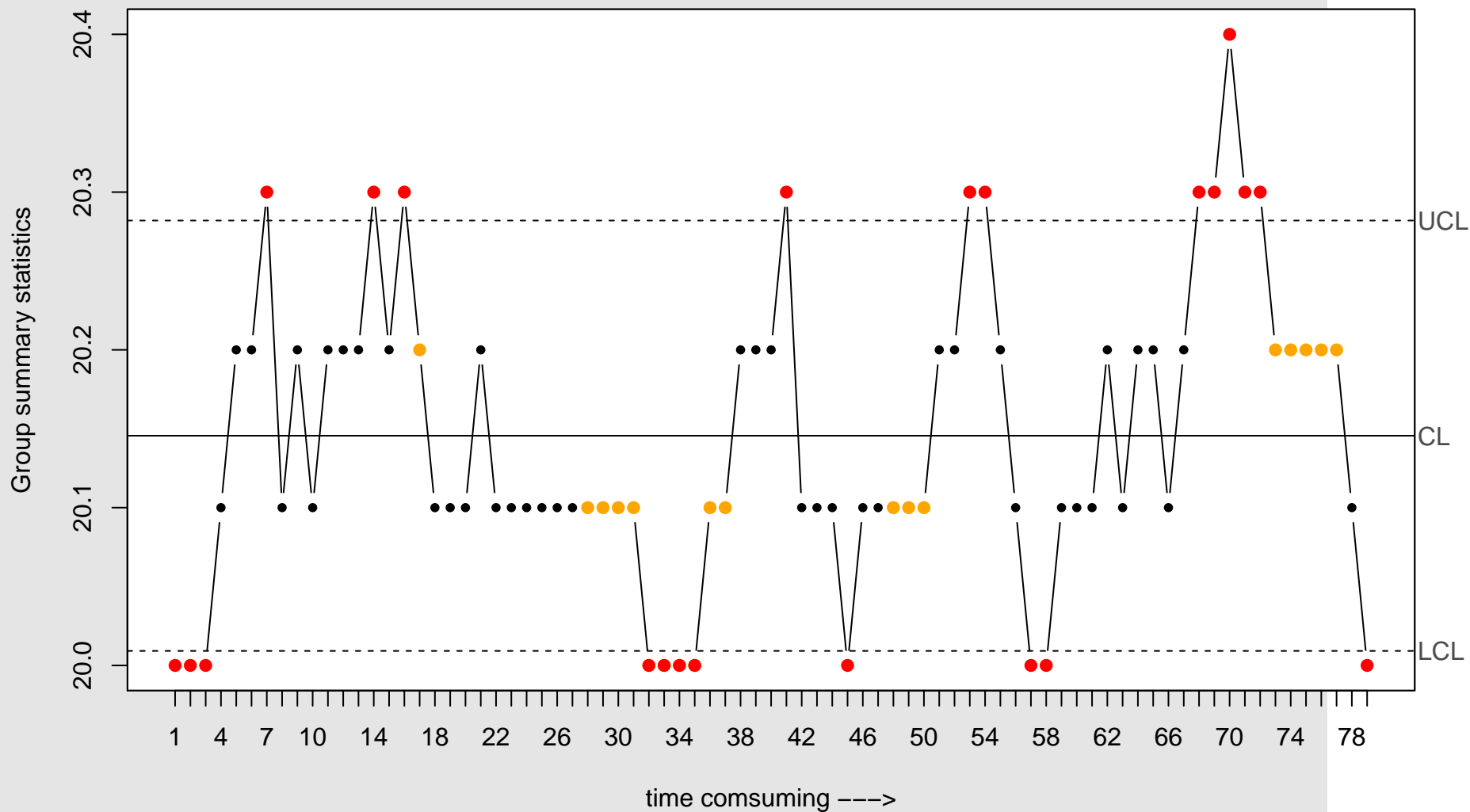


Number of groups = 79
Center = 20.01772
StdDev = 0.05228223

LCL = 19.86087
UCL = 20.17457

Number beyond limits = 6
Number violating runs = 20

59th column point of this product

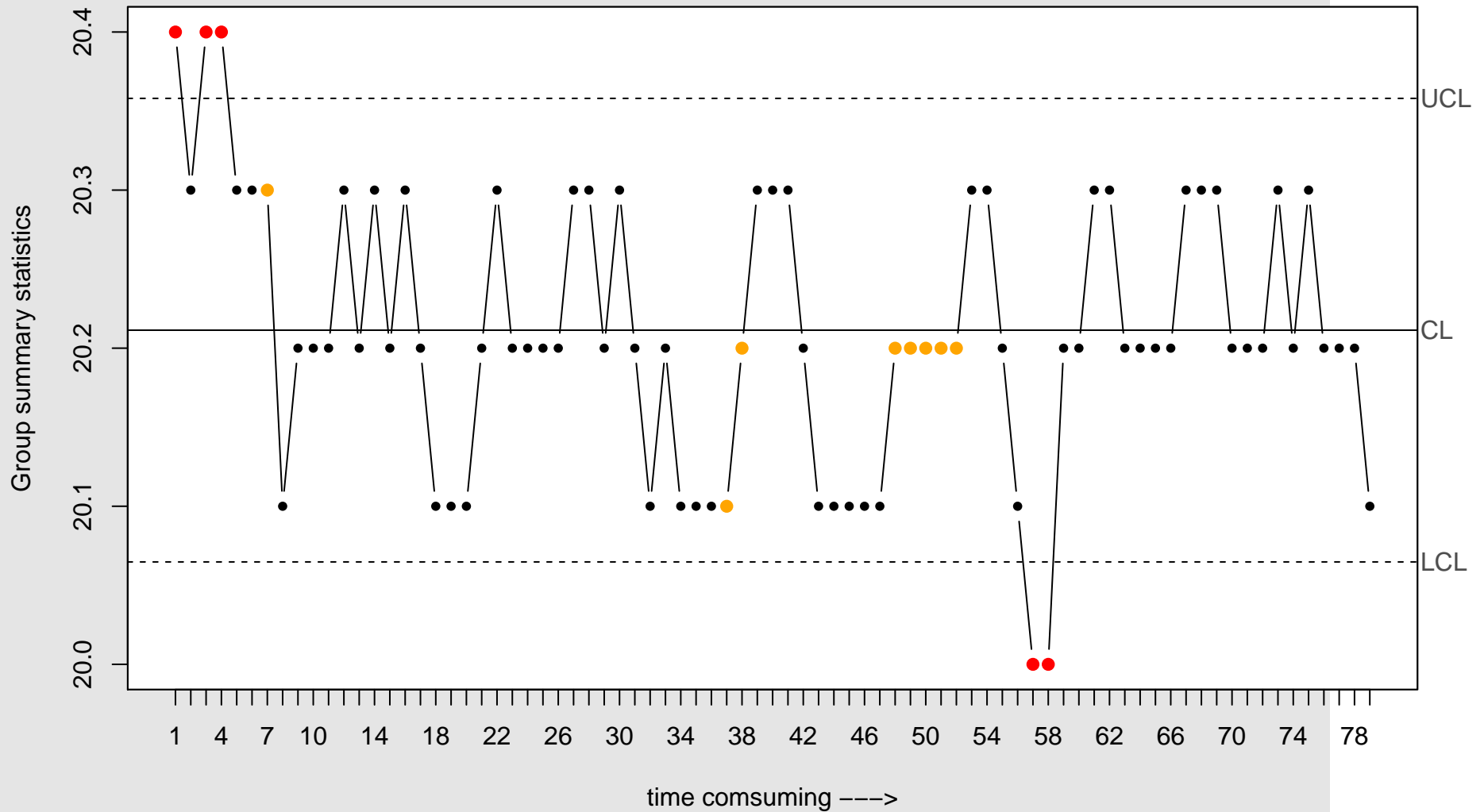


Number of groups = 79
 Center = 20.14557
 StdDev = 0.04546281

LCL = 20.00918
 UCL = 20.28196

Number beyond limits = 22
 Number violating runs = 19

60th column point of this product

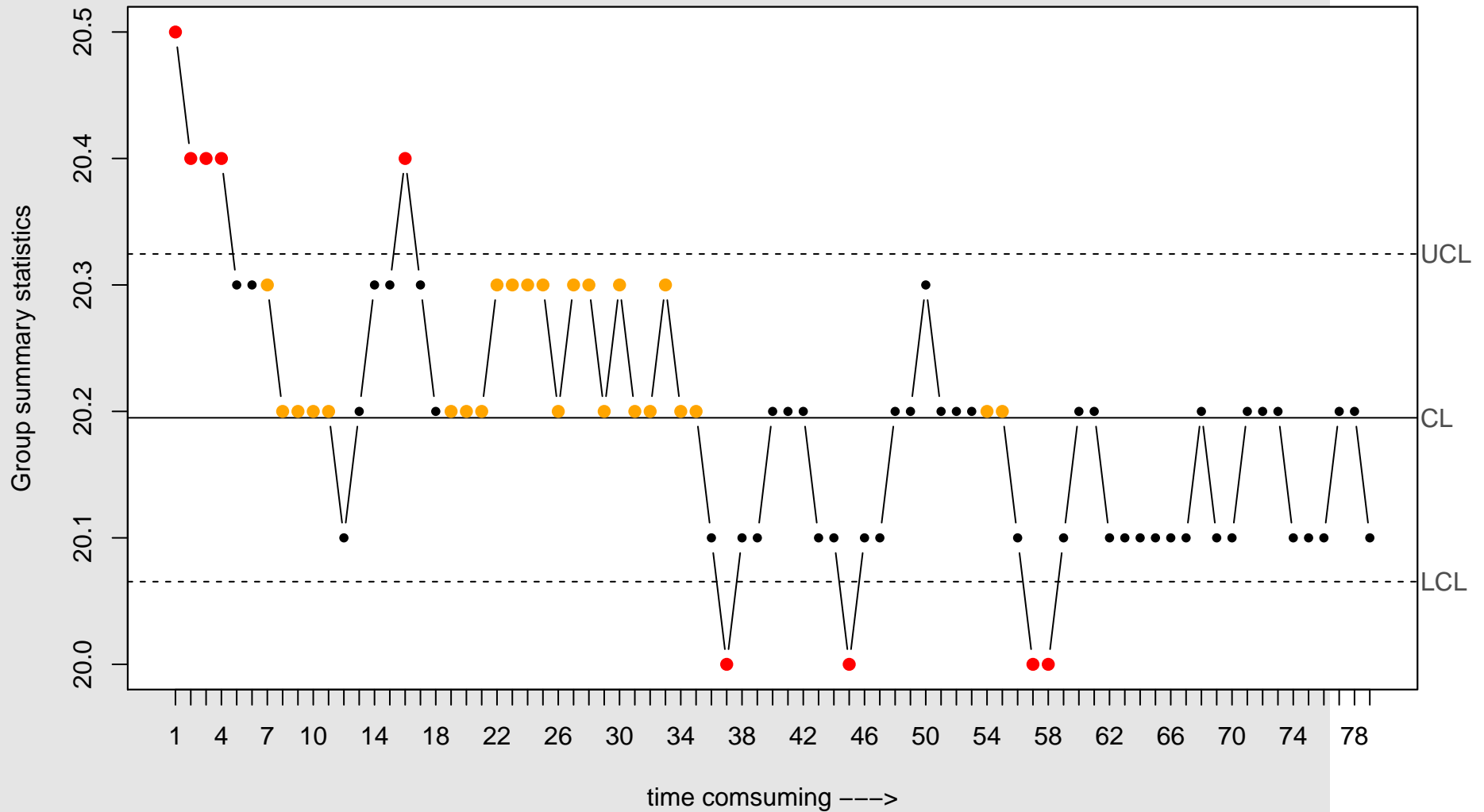


Number of groups = 79
Center = 20.21139
StdDev = 0.04887252

LCL = 20.06477
UCL = 20.35801

Number beyond limits = 5
Number violating runs = 8

61th column point of this product

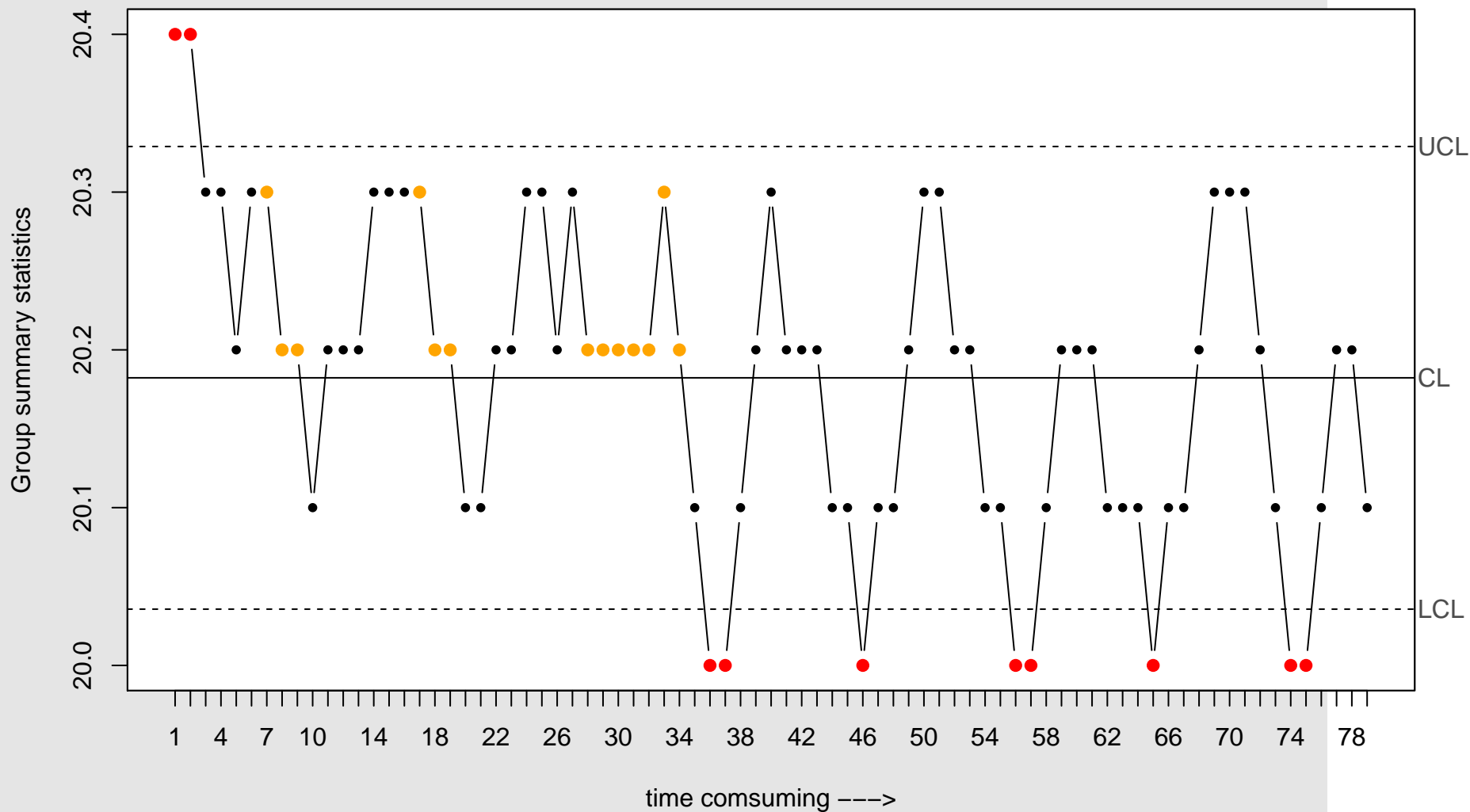


Number of groups = 79
 Center = 20.19494
 StdDev = 0.04318967

LCL = 20.06537
 UCL = 20.32451

Number beyond limits = 9
 Number violating runs = 24

62th column point of this product

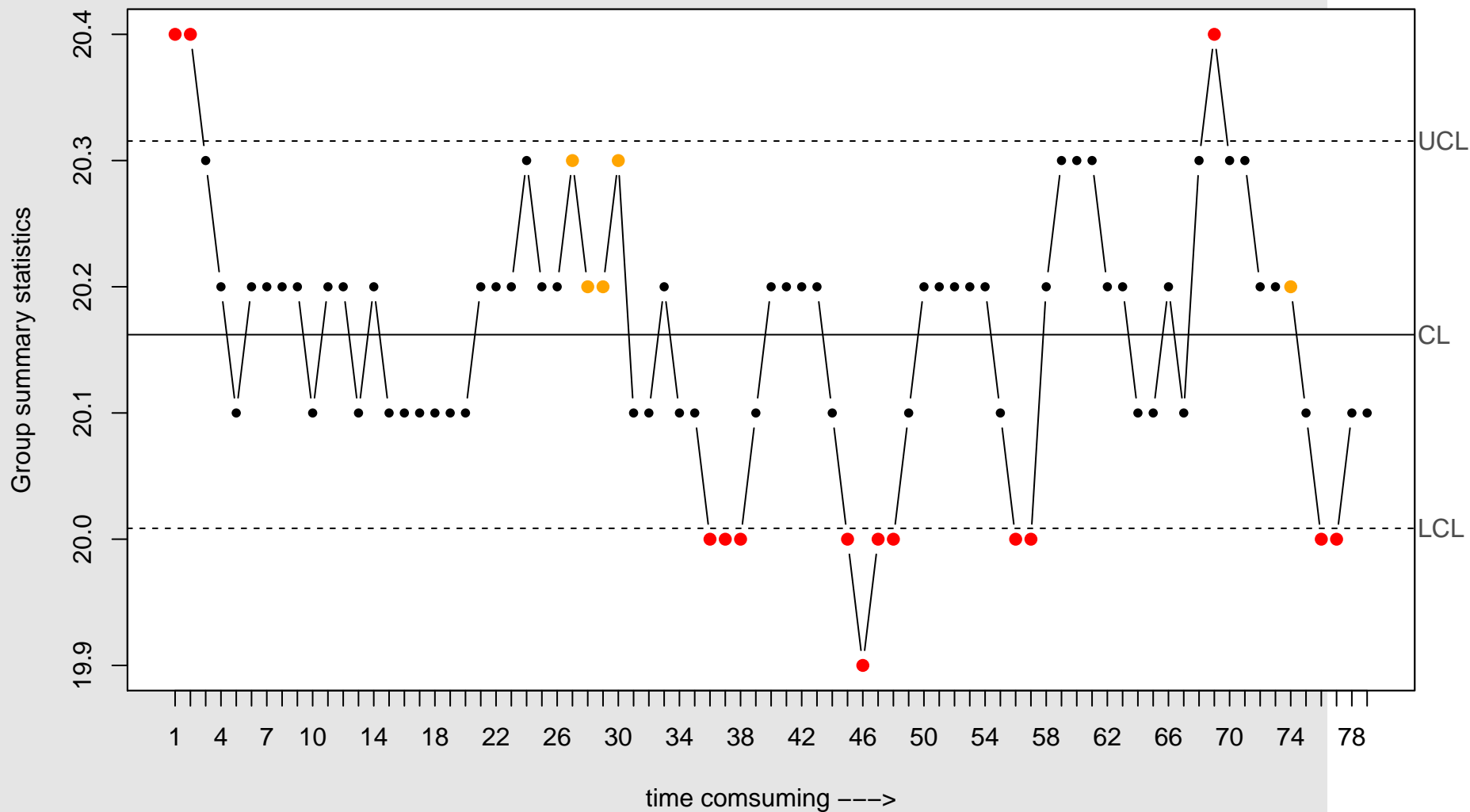


Number of groups = 79
 Center = 20.18228
 StdDev = 0.04887252

LCL = 20.03566
 UCL = 20.3289

Number beyond limits = 10
 Number violating runs = 13

63th column point of this product

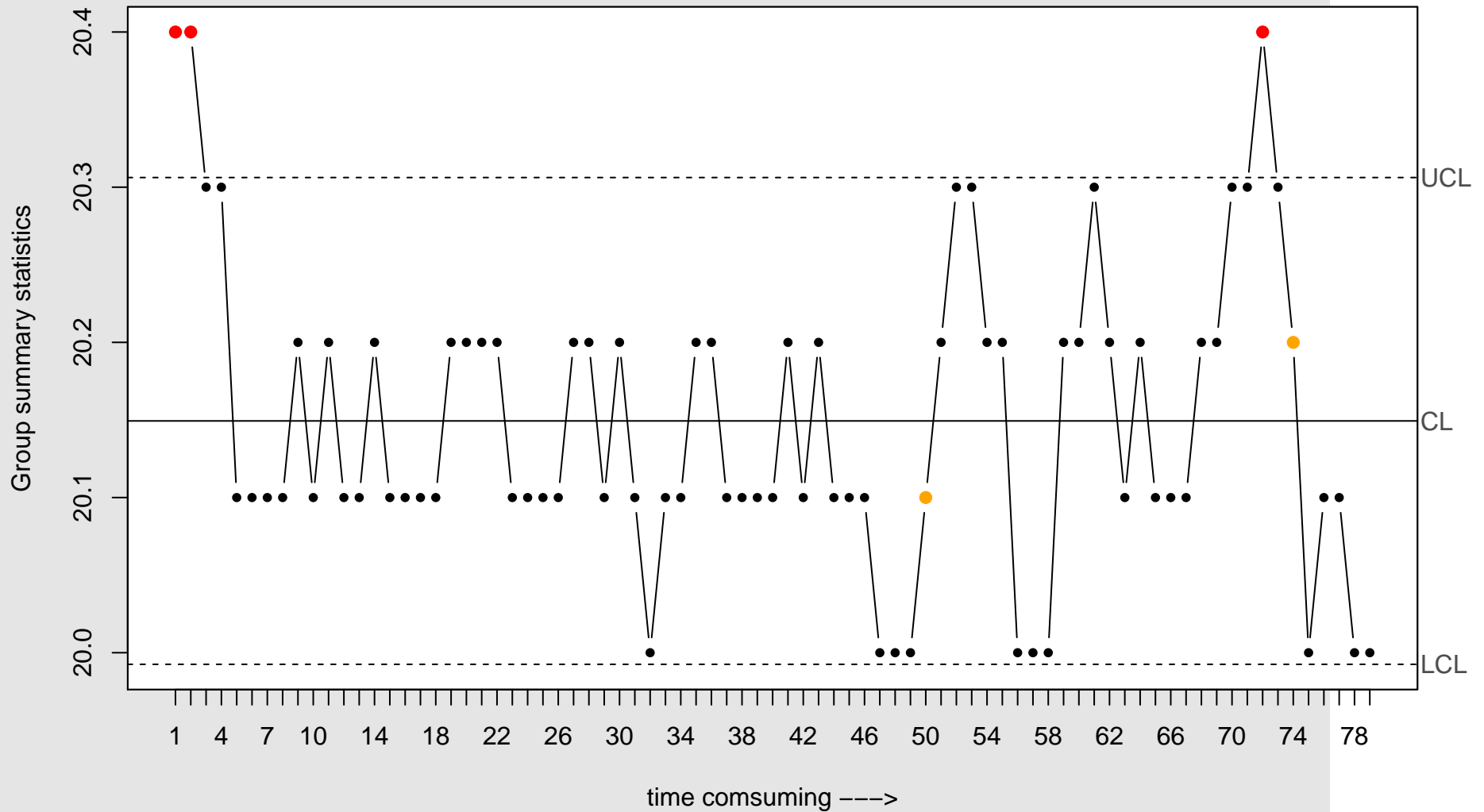


Number of groups = 79
Center = 20.16203
StdDev = 0.05114566

LCL = 20.00859
UCL = 20.31546

Number beyond limits = 14
Number violating runs = 5

64th column point of this product

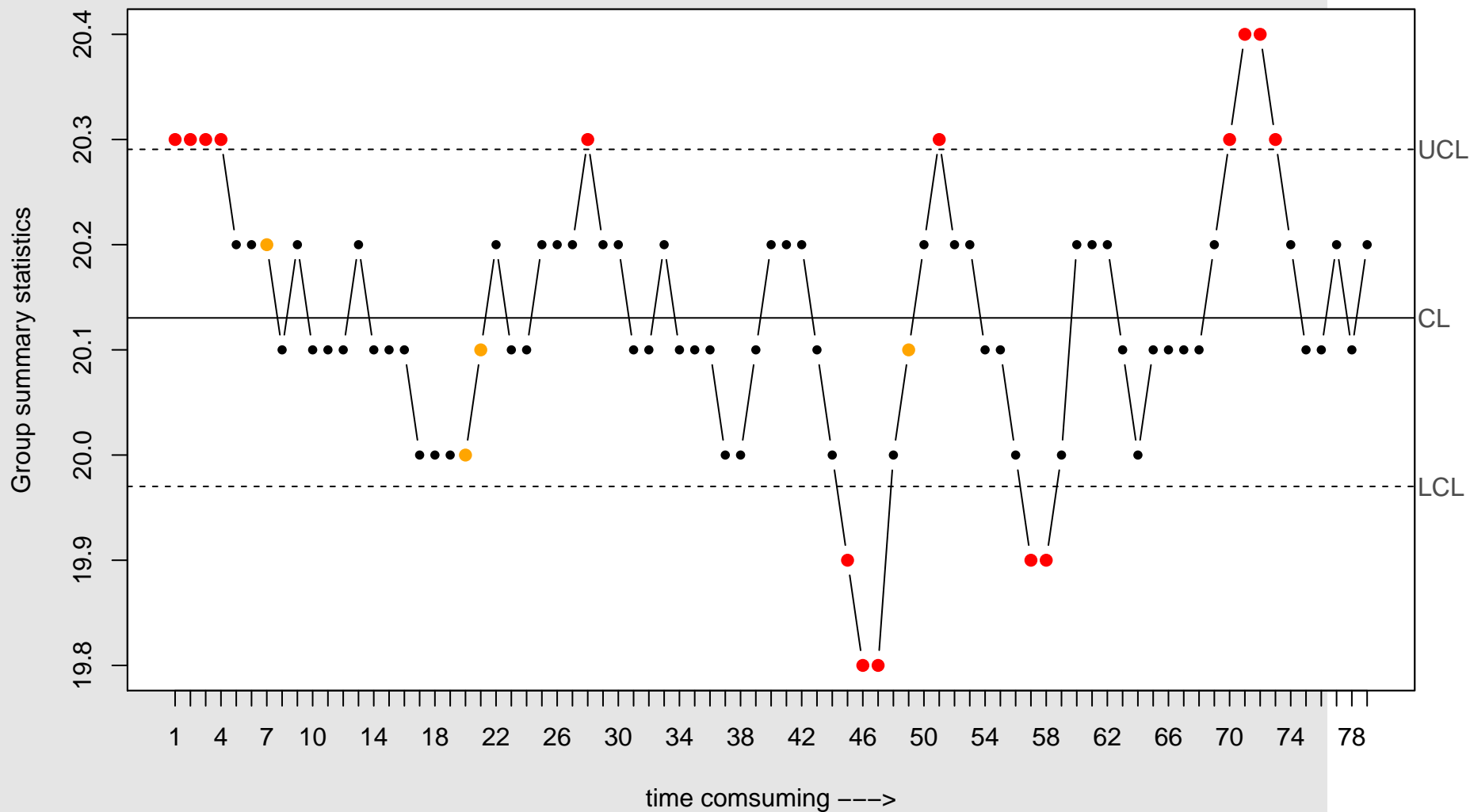


Number of groups = 79
Center = 20.14937
StdDev = 0.05228223

LCL = 19.99252
UCL = 20.30621

Number beyond limits = 3
Number violating runs = 2

65th column point of this product

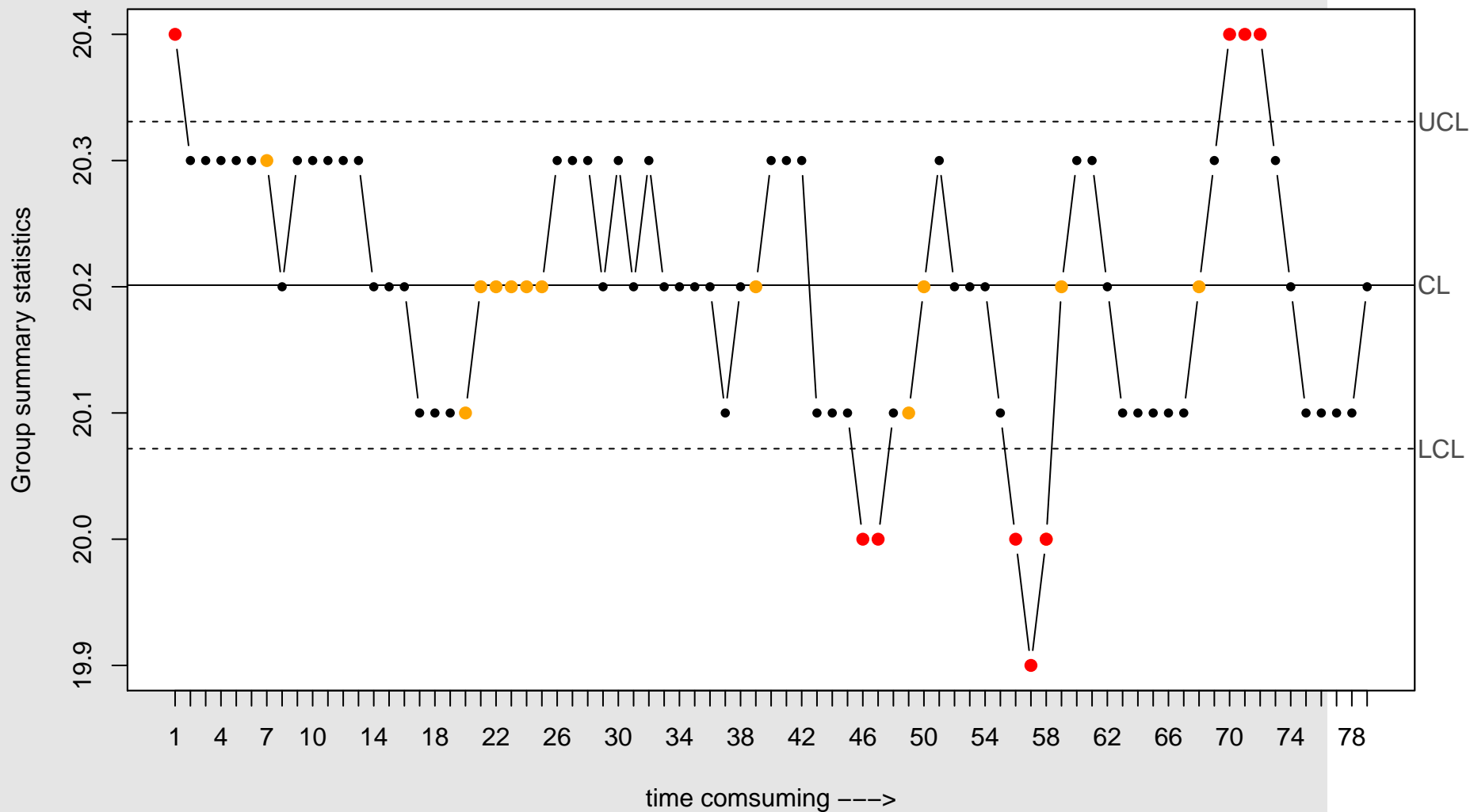


Number of groups = 79
 Center = 20.13038
 StdDev = 0.0534188

LCL = 19.97012
 UCL = 20.29064

Number beyond limits = 15
 Number violating runs = 4

66th column point of this product

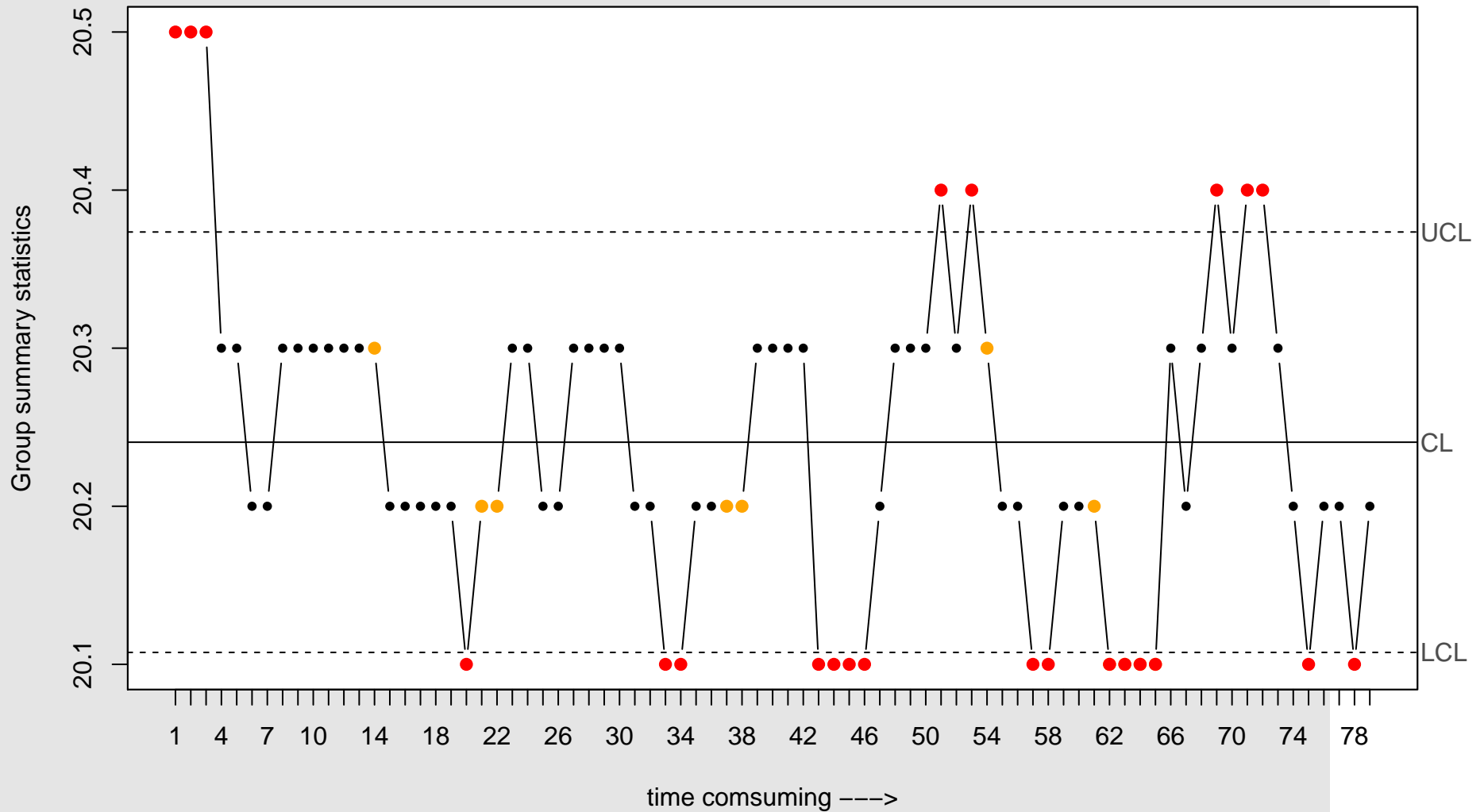


Number of groups = 79
Center = 20.20127
StdDev = 0.04318967

LCL = 20.0717
UCL = 20.33083

Number beyond limits = 9
Number violating runs = 13

67th column point of this product

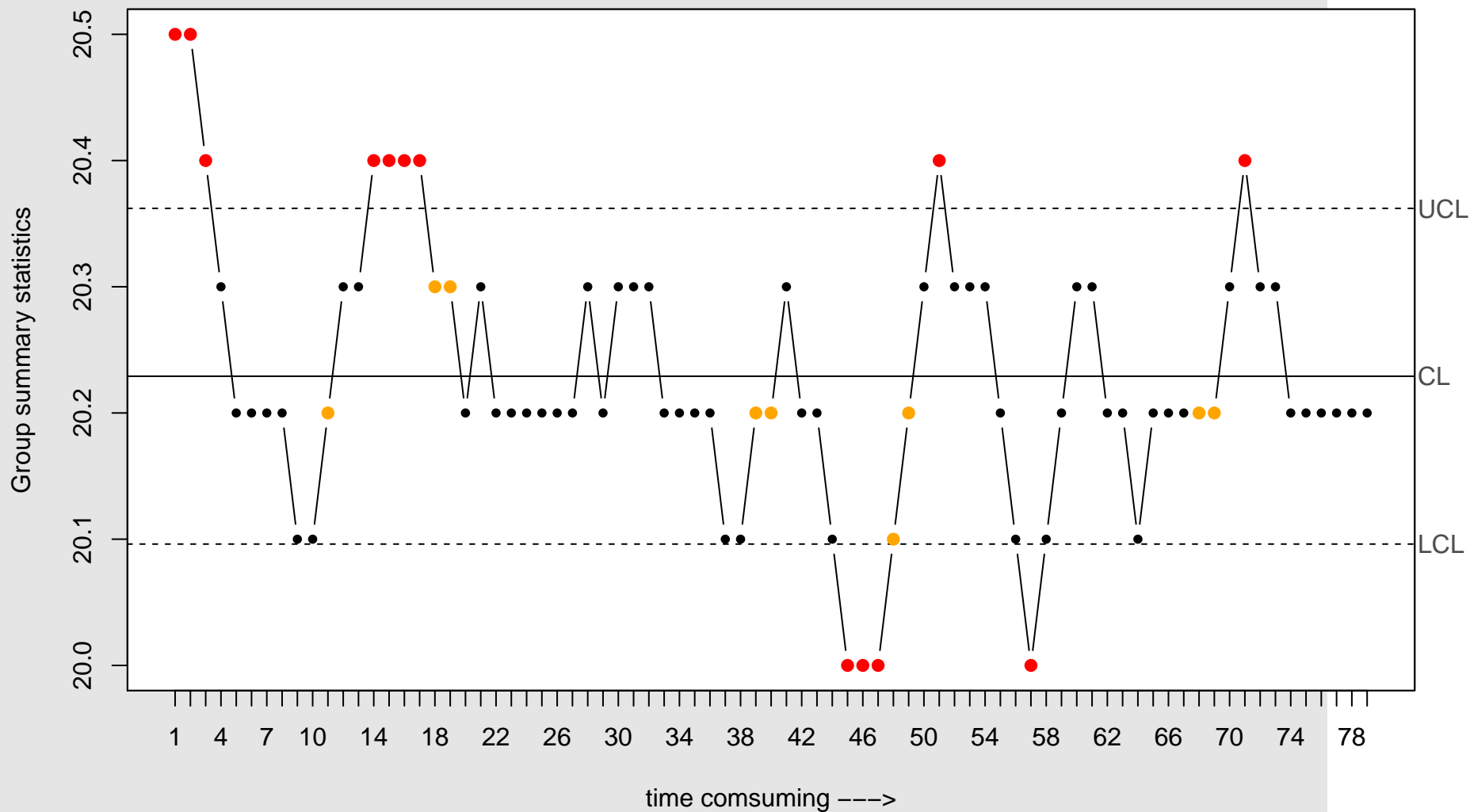


Number of groups = 79
Center = 20.24051
StdDev = 0.04432624

LCL = 20.10753
UCL = 20.37349

Number beyond limits = 23
Number violating runs = 11

68th column point of this product

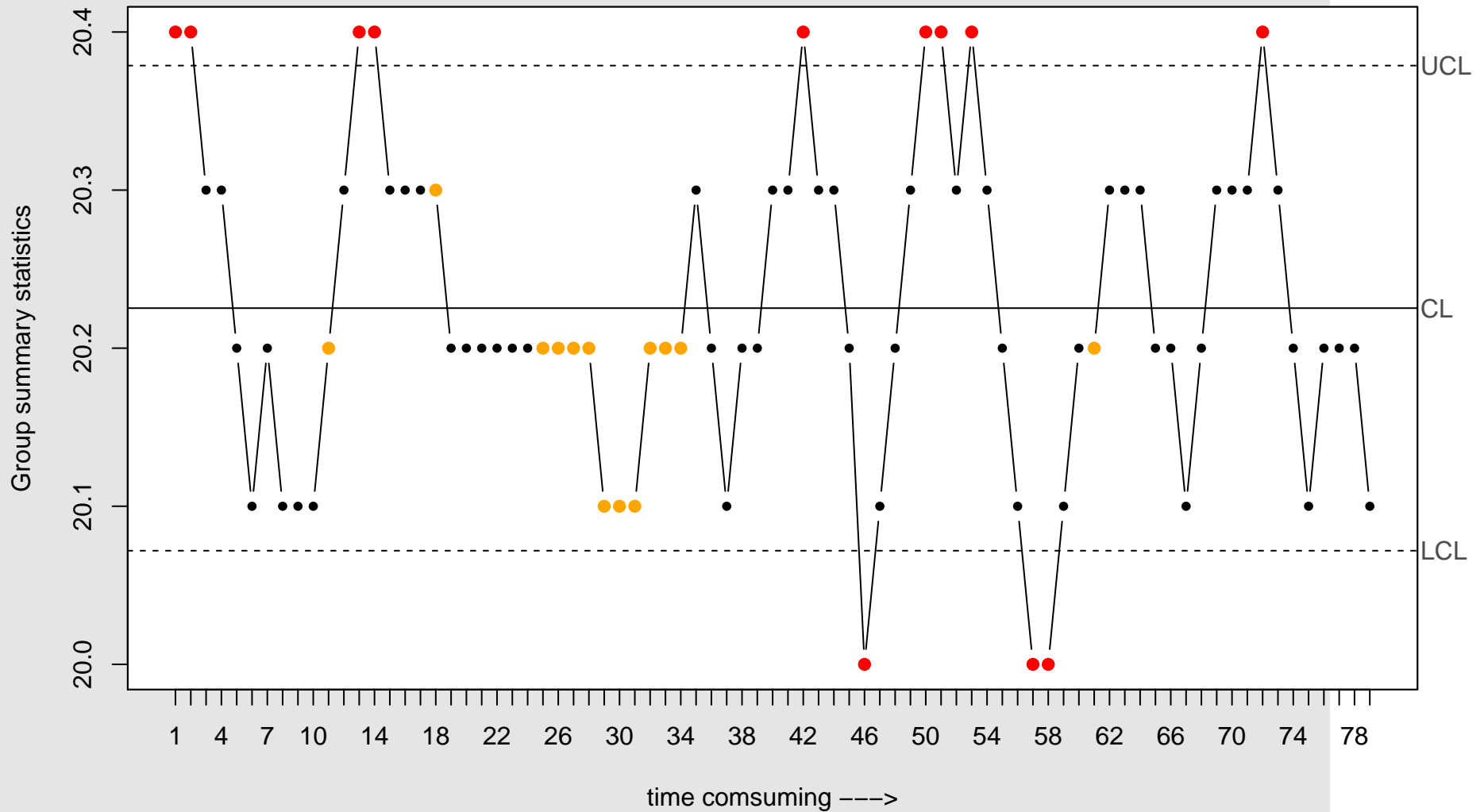


Number of groups = 79
Center = 20.22911
StdDev = 0.04432624

LCL = 20.09614
UCL = 20.36209

Number beyond limits = 13
Number violating runs = 9

69th column point of this product

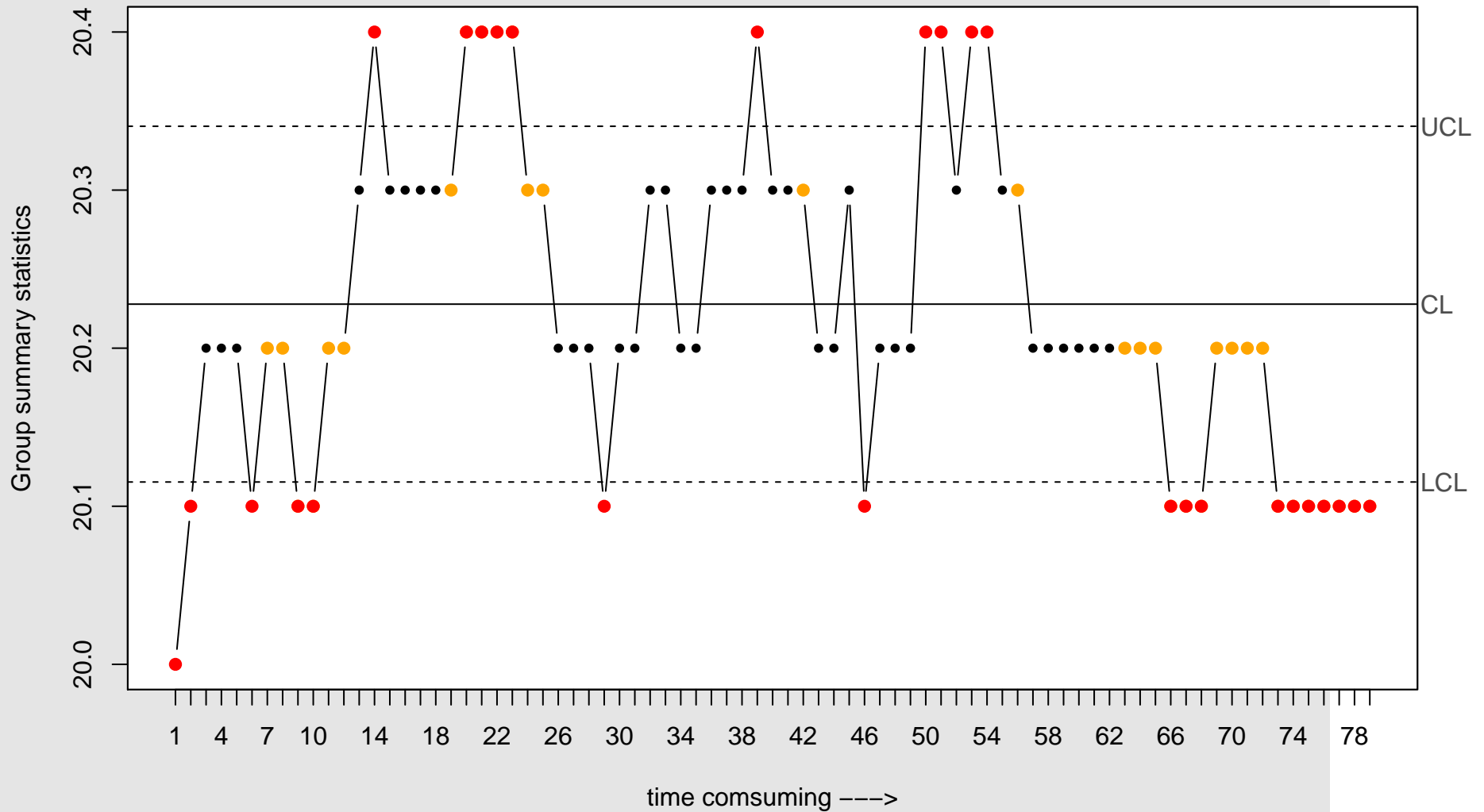


Number of groups = 79
 Center = 20.22532
 StdDev = 0.05114566

LCL = 20.07188
 UCL = 20.37875

Number beyond limits = 12
 Number violating runs = 13

70th column point of this product

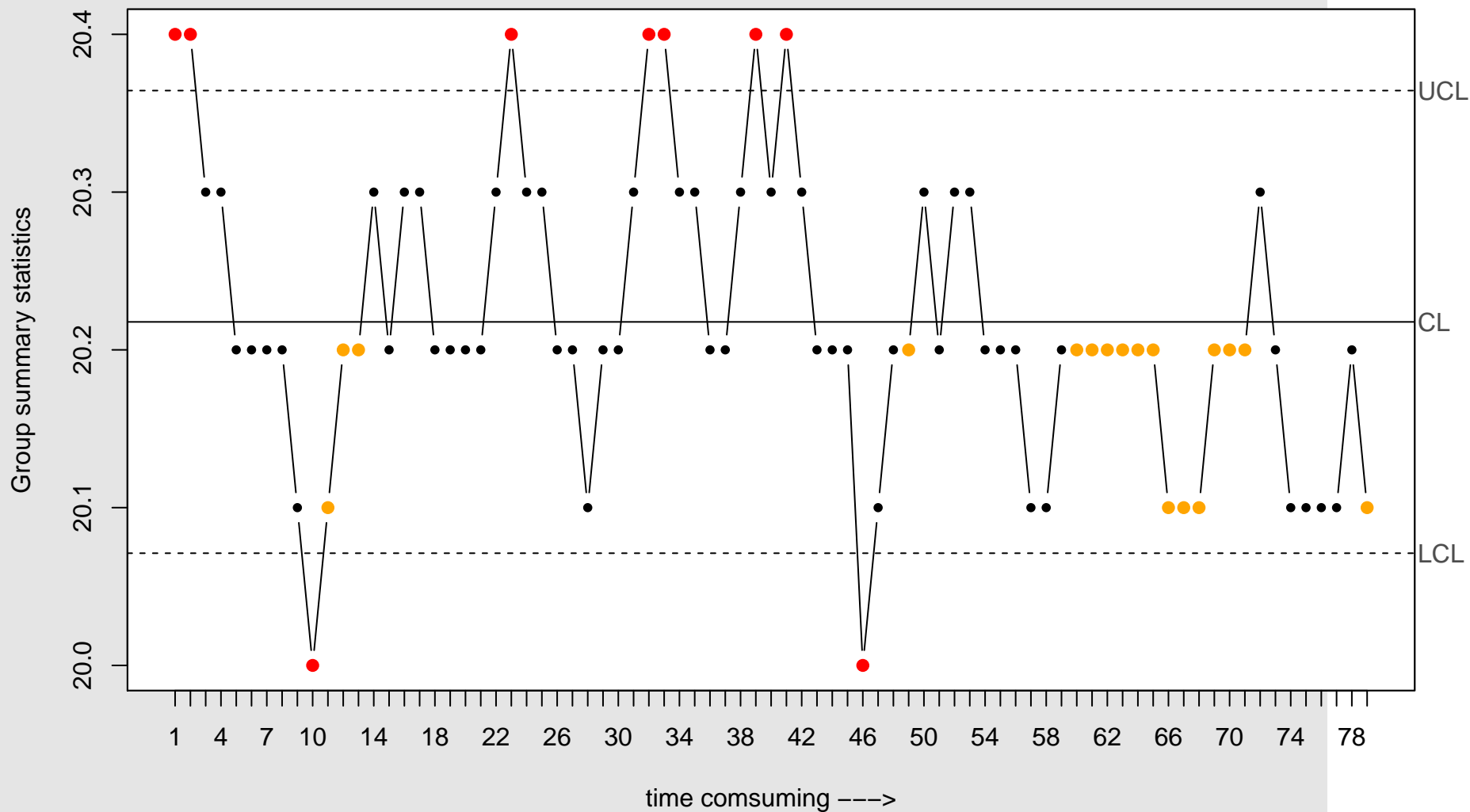


Number of groups = 79
Center = 20.22785
StdDev = 0.03750682

LCL = 20.11533
UCL = 20.34037

Number beyond limits = 27
Number violating runs = 32

71th column point of this product

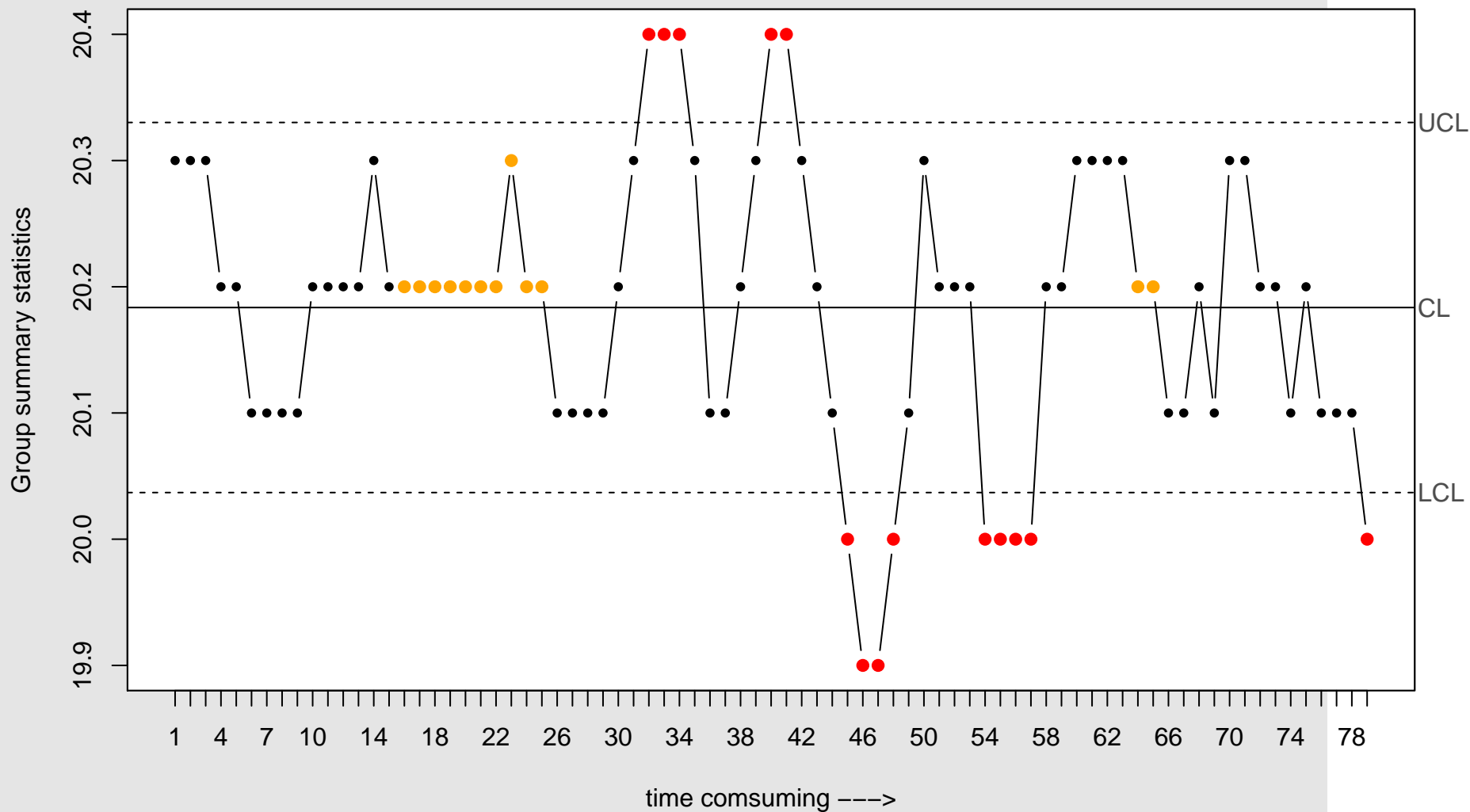


Number of groups = 79
Center = 20.21772
StdDev = 0.04887252

LCL = 20.0711
UCL = 20.36434

Number beyond limits = 9
Number violating runs = 17

72th column point of this product

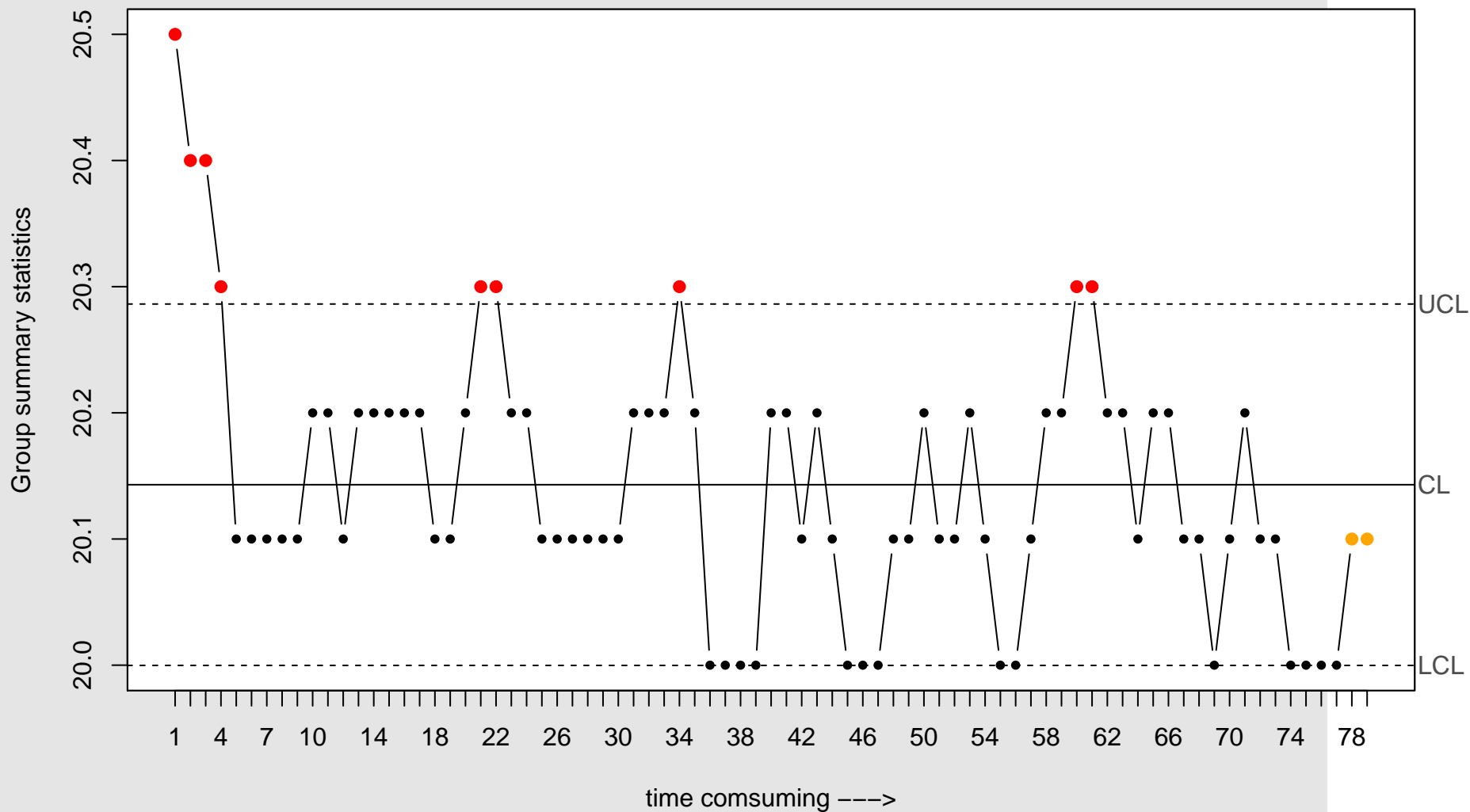


Number of groups = 79
 Center = 20.18354
 StdDev = 0.04887252

LCL = 20.03693
 UCL = 20.33016

Number beyond limits = 14
 Number violating runs = 12

73th column point of this product

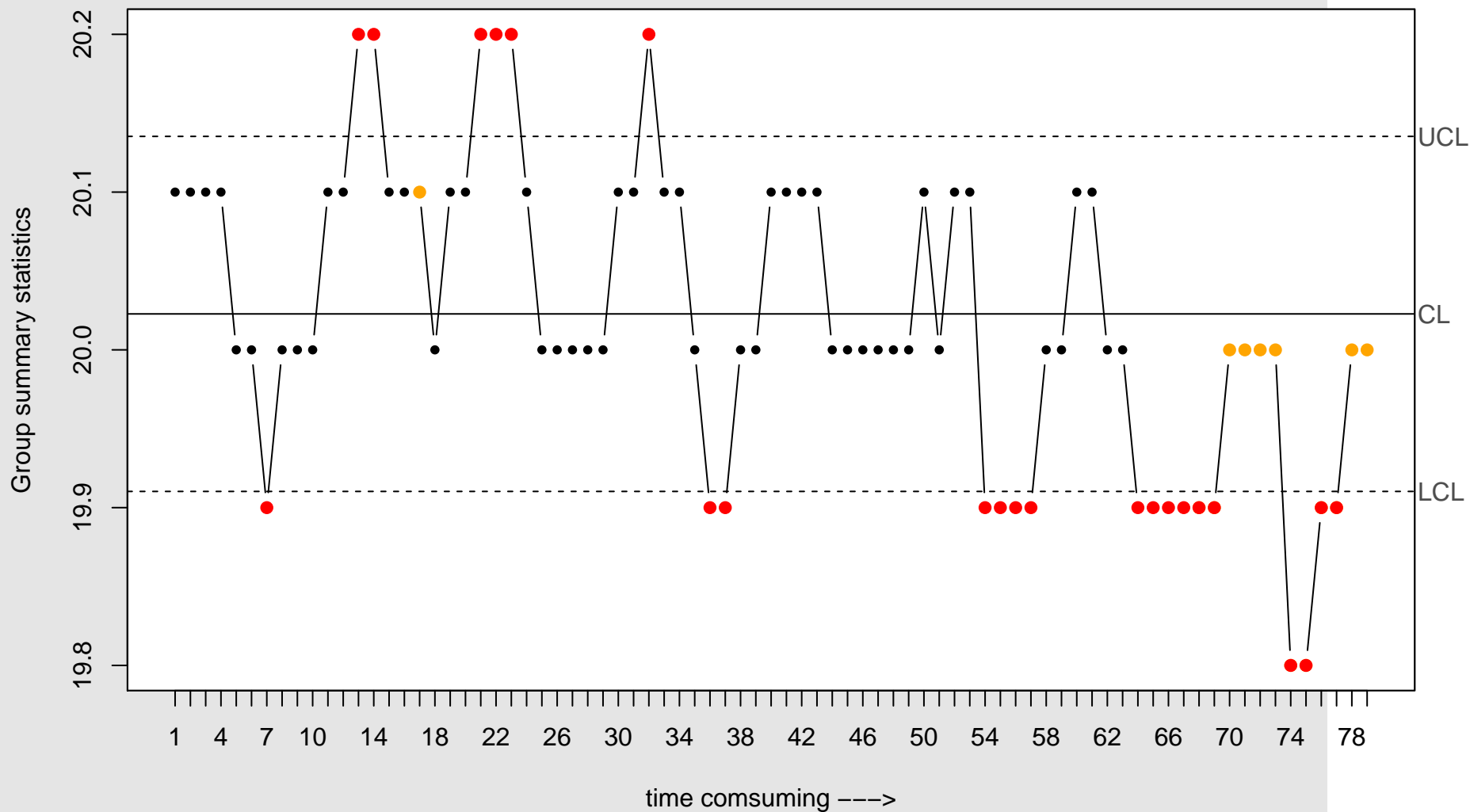


Number of groups = 79
 Center = 20.14304
 StdDev = 0.04773595

LCL = 19.99983
 UCL = 20.28625

Number beyond limits = 9
 Number violating runs = 2

74th column point of this product

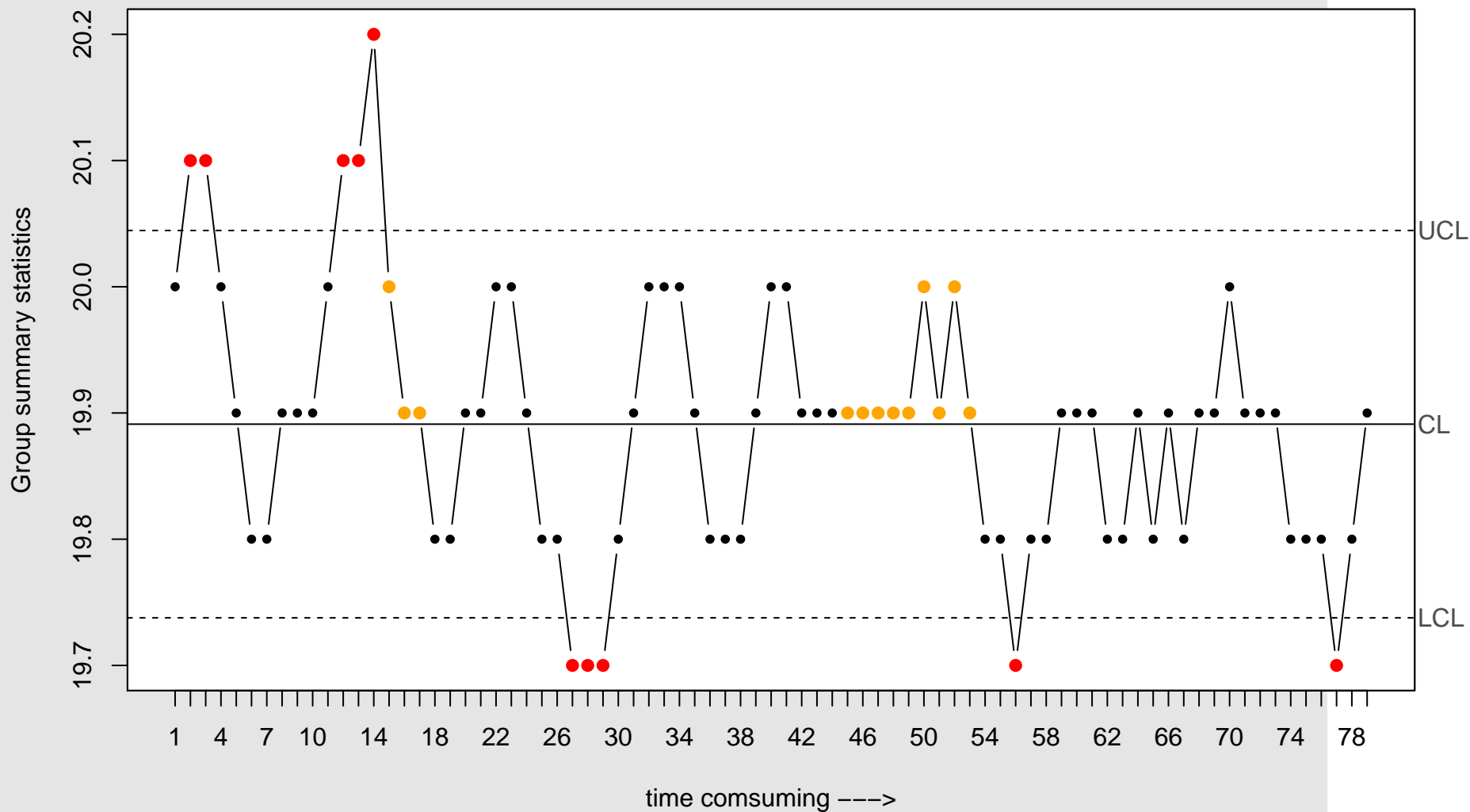


Number of groups = 79
Center = 20.02278
StdDev = 0.03750682

LCL = 19.91026
UCL = 20.13531

Number beyond limits = 23
Number violating runs = 13

75th column point of this product

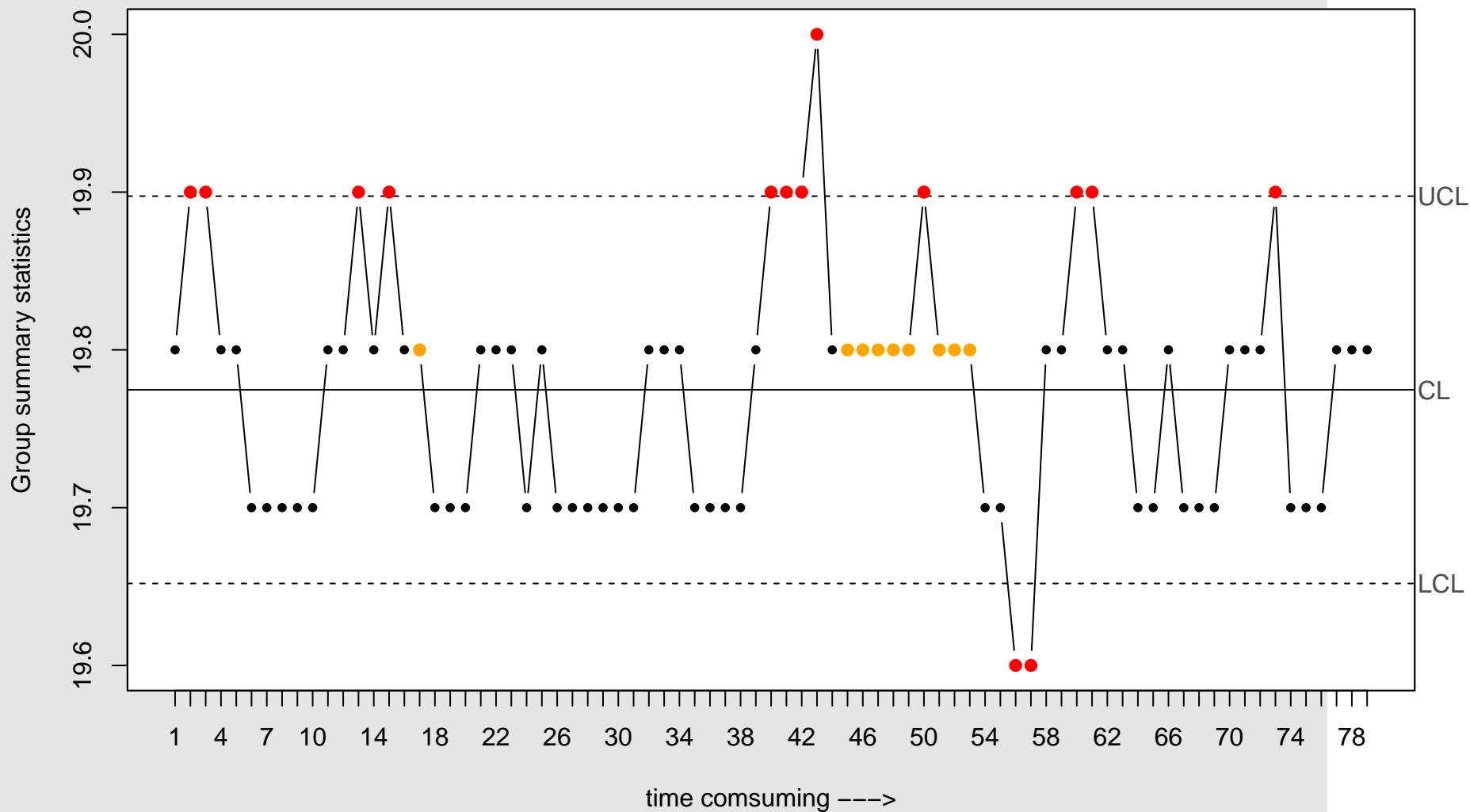


Number of groups = 79
Center = 19.89114
StdDev = 0.05114566

LCL = 19.7377
UCL = 20.04458

Number beyond limits = 10
Number violating runs = 13

76th column point of this product

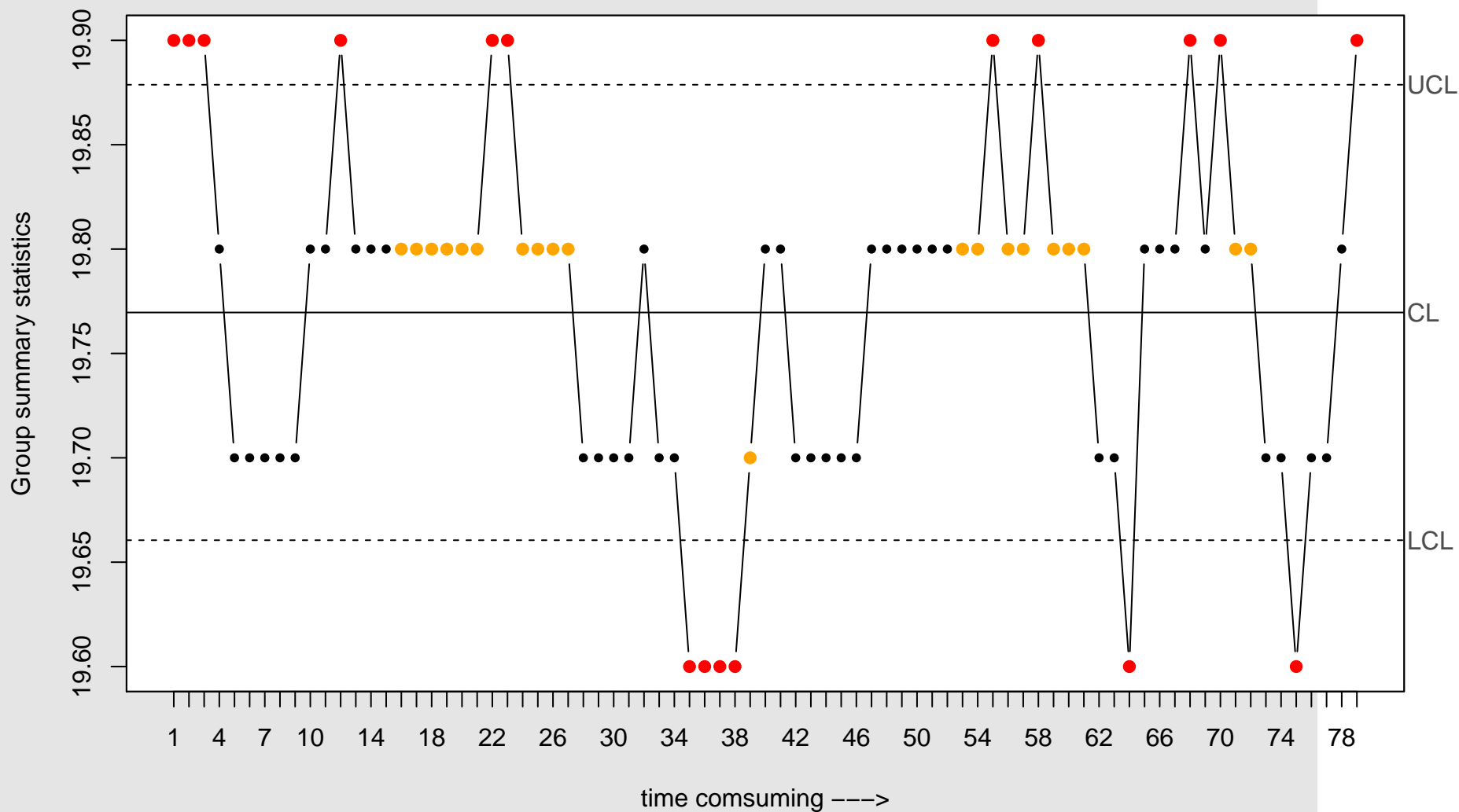


Number of groups = 79
 Center = 19.77468
 StdDev = 0.04091653

LCL = 19.65193
 UCL = 19.89743

Number beyond limits = 14
 Number violating runs = 10

77th column point of this product

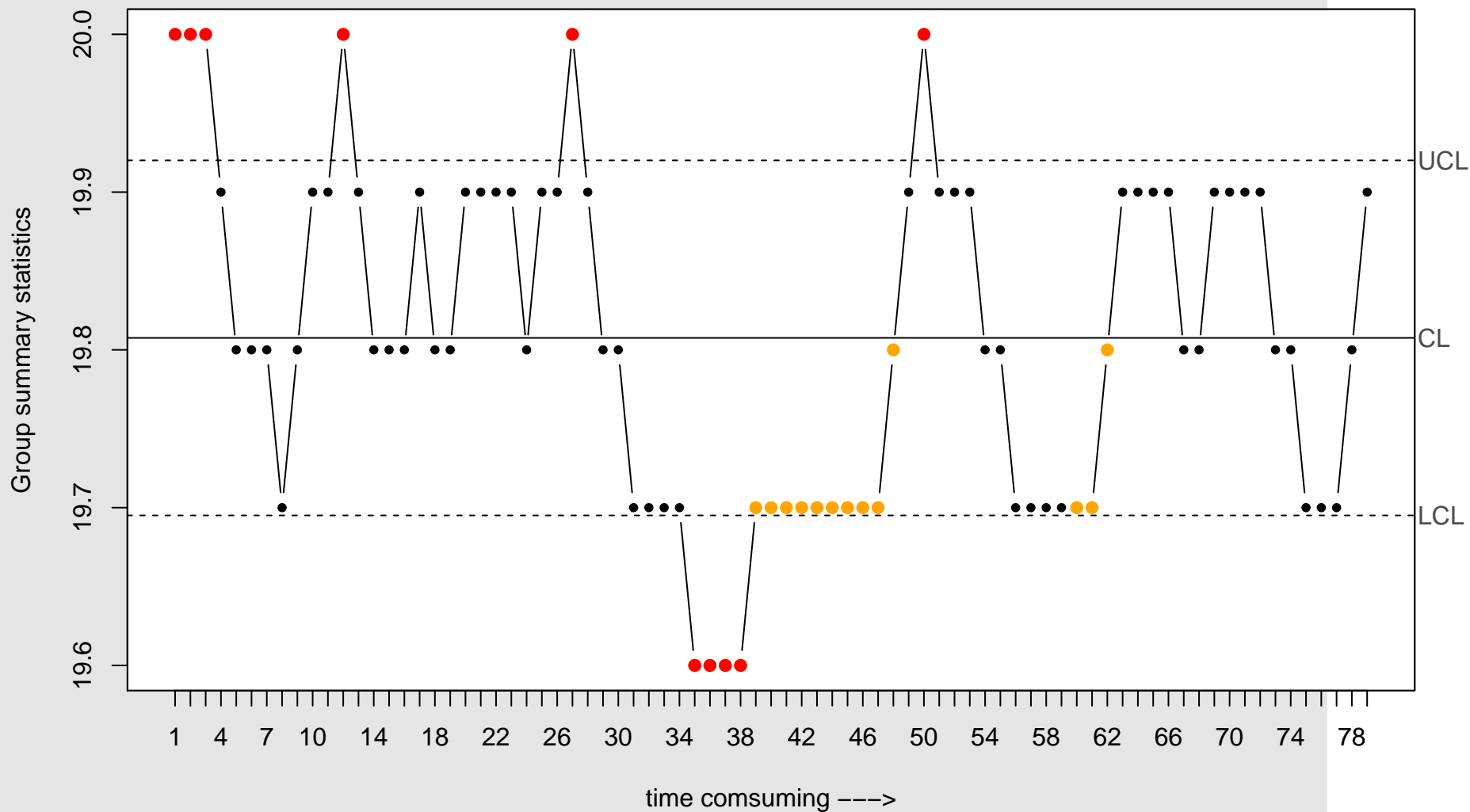


Number of groups = 79
Center = 19.76962
StdDev = 0.03637025

LCL = 19.66051
UCL = 19.87873

Number beyond limits = 17
Number violating runs = 24

78th column point of this product

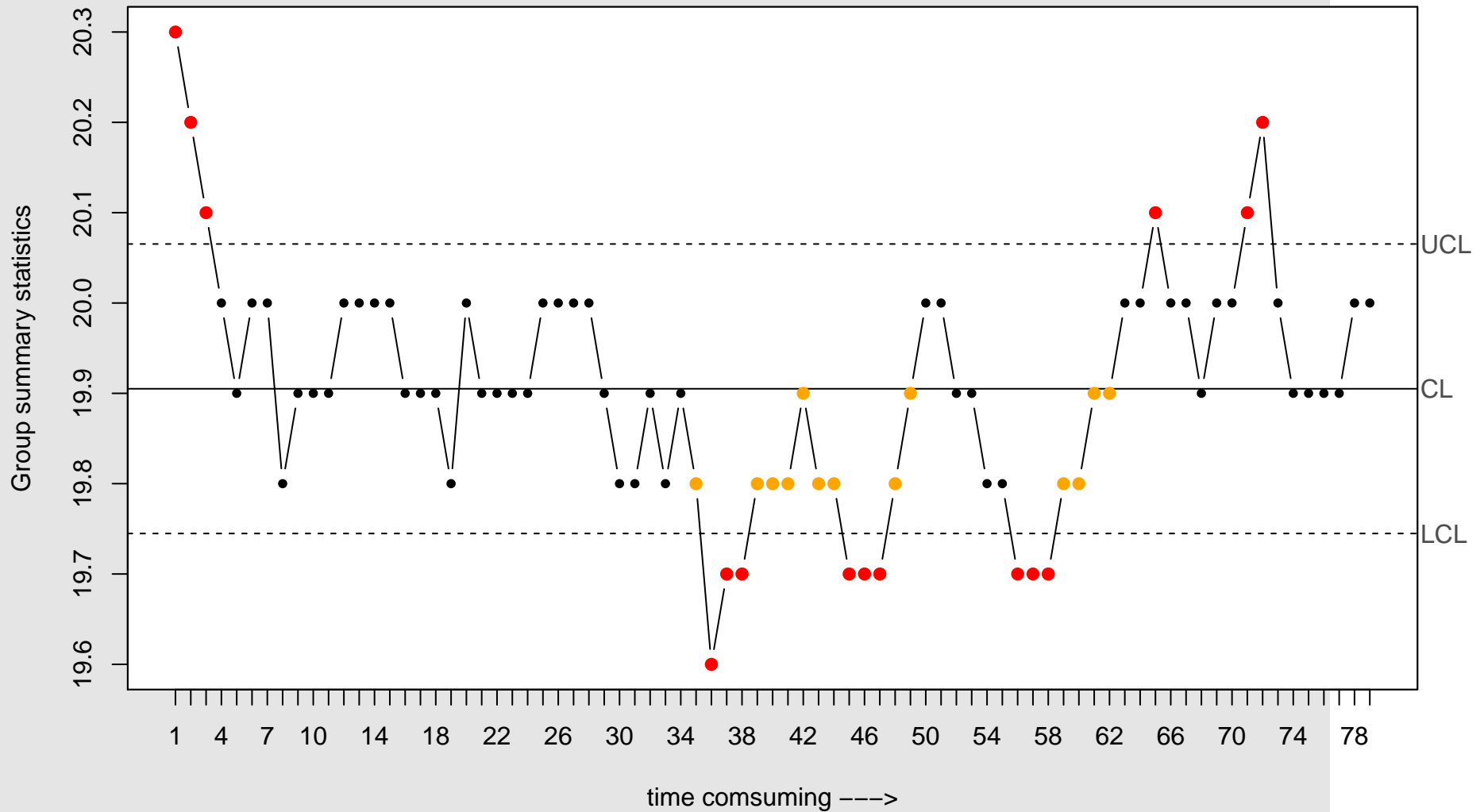


Number of groups = 79
 Center = 19.80759
 StdDev = 0.03750682

LCL = 19.69507
 UCL = 19.92012

Number beyond limits = 10
 Number violating runs = 17

79th column point of this product

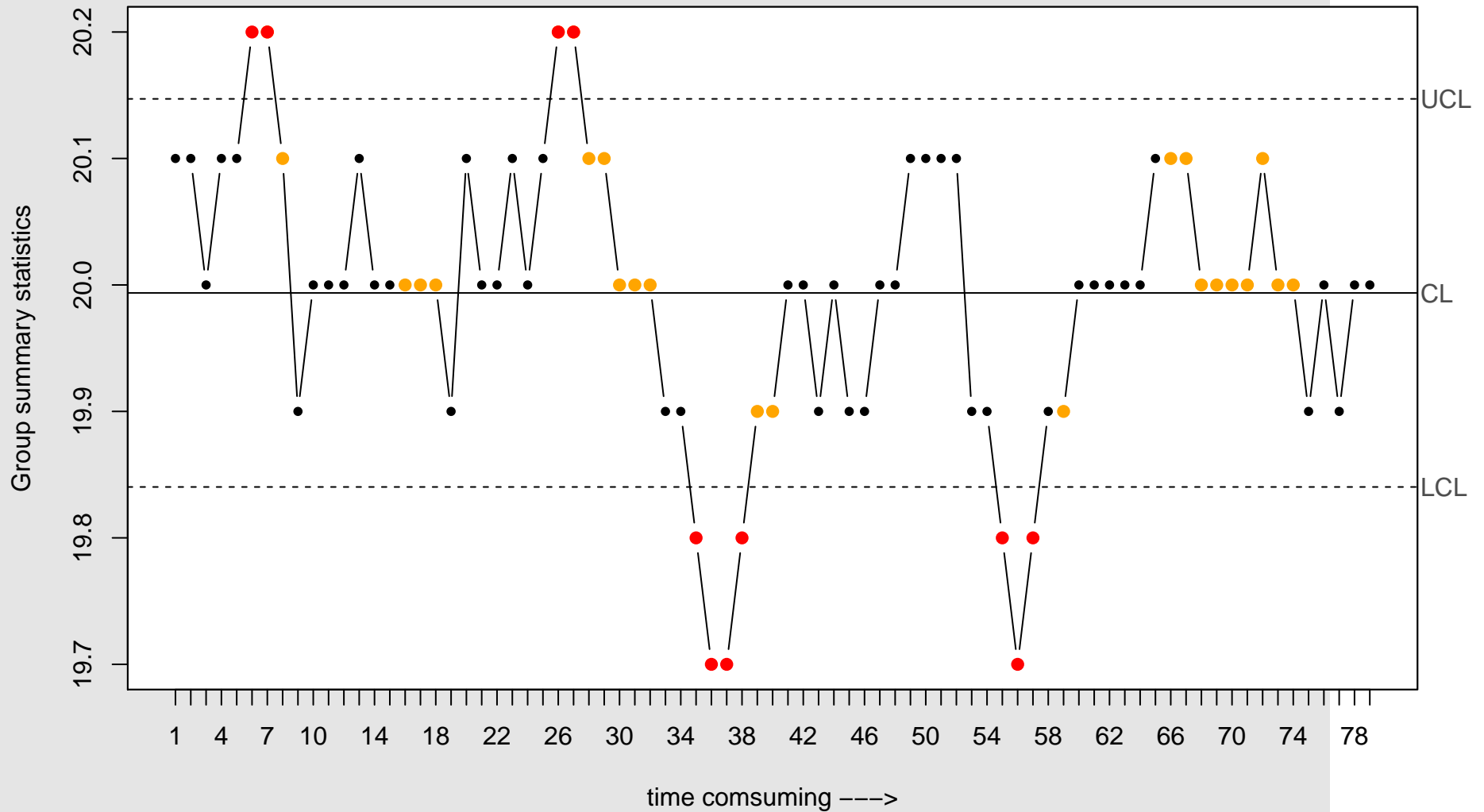


Number of groups = 79
 Center = 19.90506
 StdDev = 0.0534188

LCL = 19.74481
 UCL = 20.06532

Number beyond limits = 15
 Number violating runs = 20

80th column point of this product

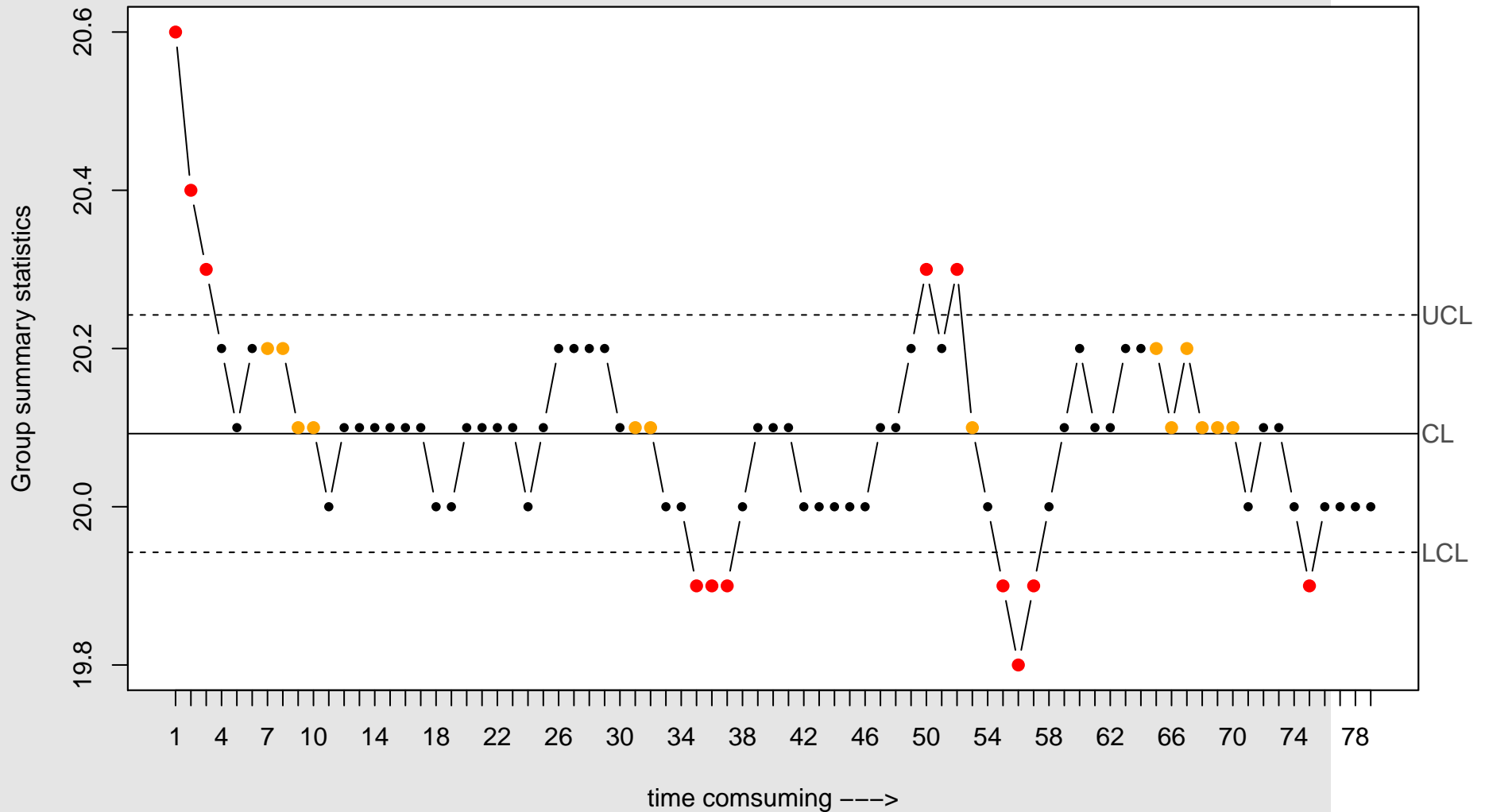


Number of groups = 79
Center = 19.99367
StdDev = 0.05114566

LCL = 19.84023
UCL = 20.14711

Number beyond limits = 11
Number violating runs = 24

81th column point of this product

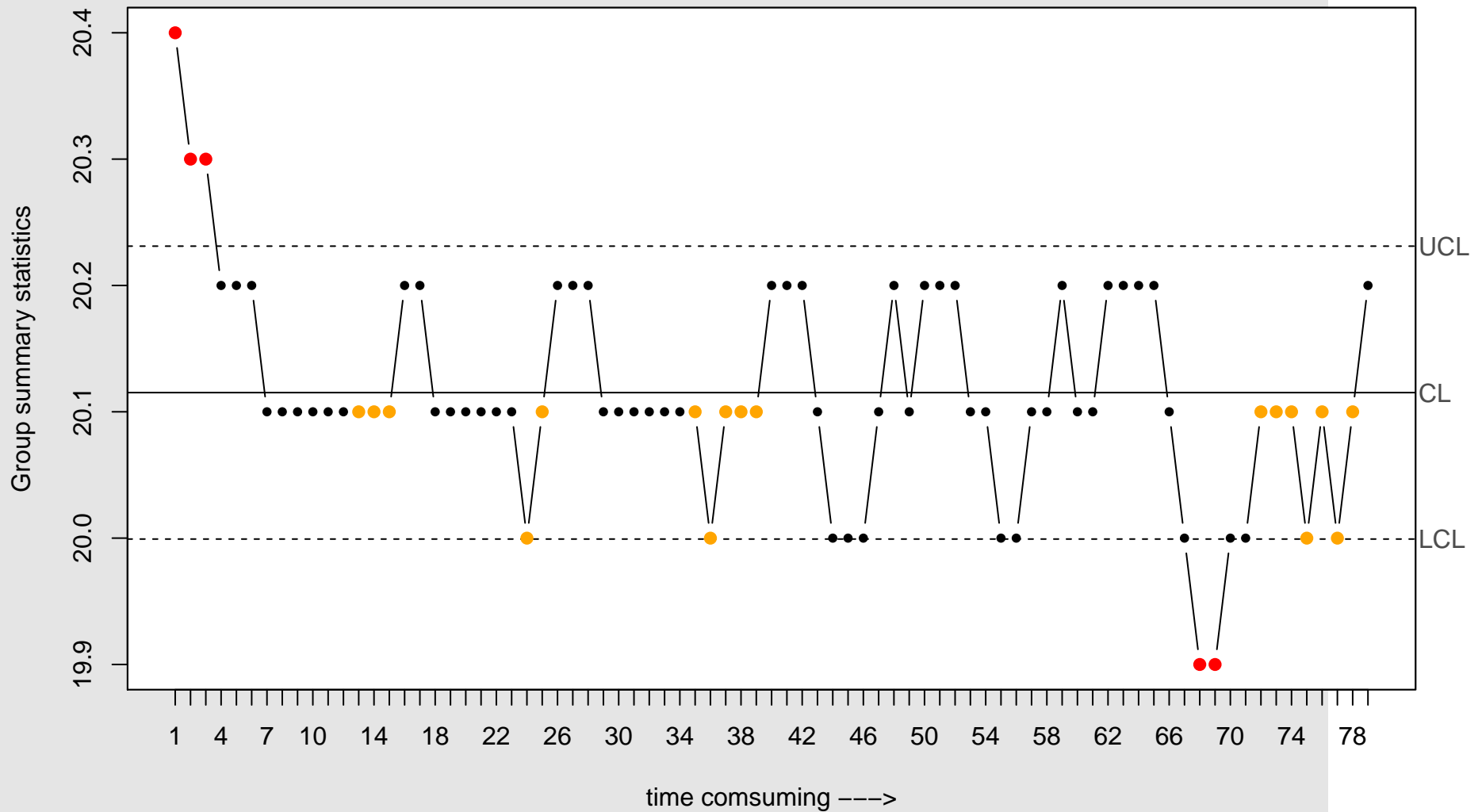


Number of groups = 79
Center = 20.09241
StdDev = 0.05000909

LCL = 19.94238
UCL = 20.24243

Number beyond limits = 12
Number violating runs = 13

82th column point of this product

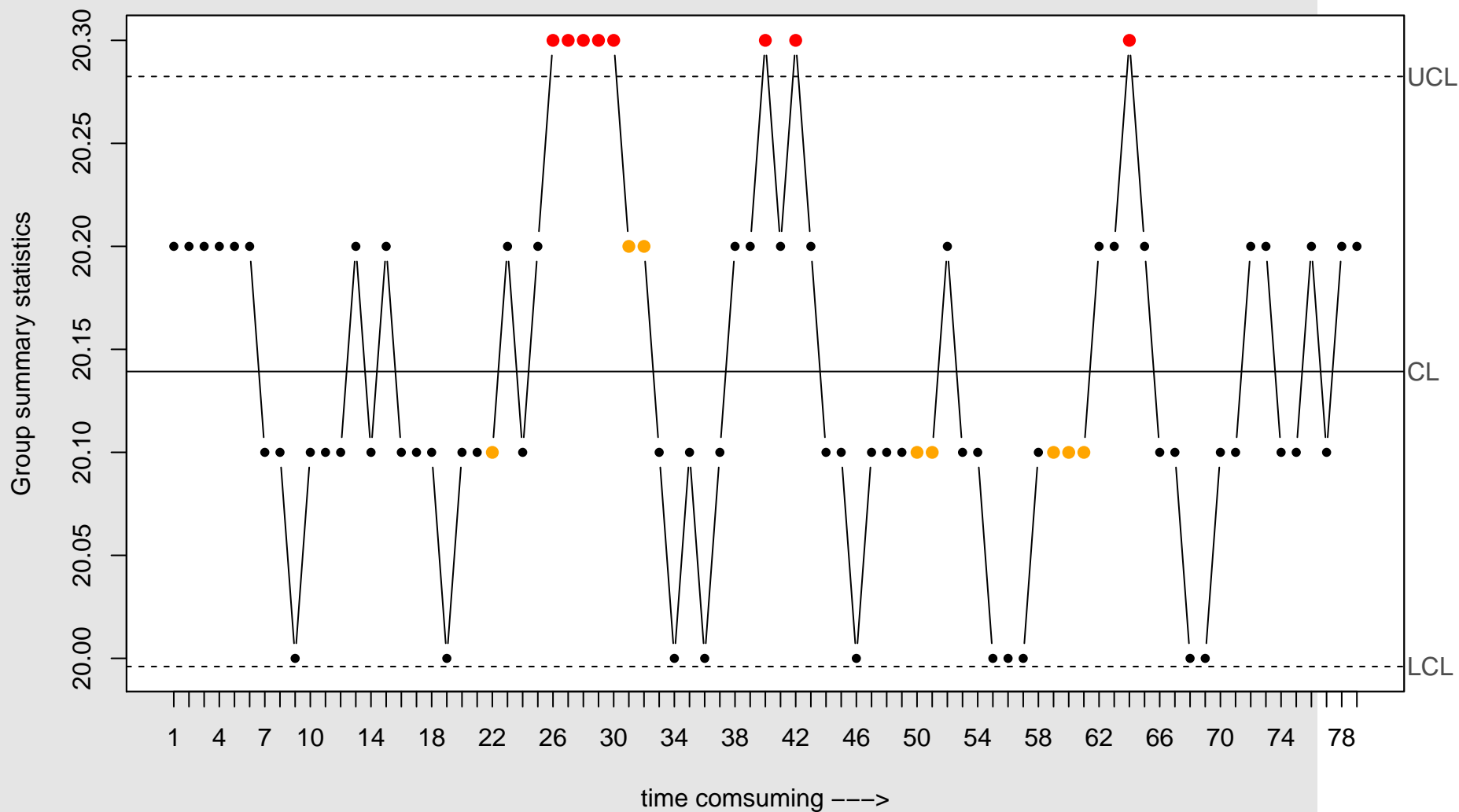


Number of groups = 79
 Center = 20.11519
 StdDev = 0.03864339

LCL = 19.99926
 UCL = 20.23112

Number beyond limits = 5
 Number violating runs = 17

83th column point of this product

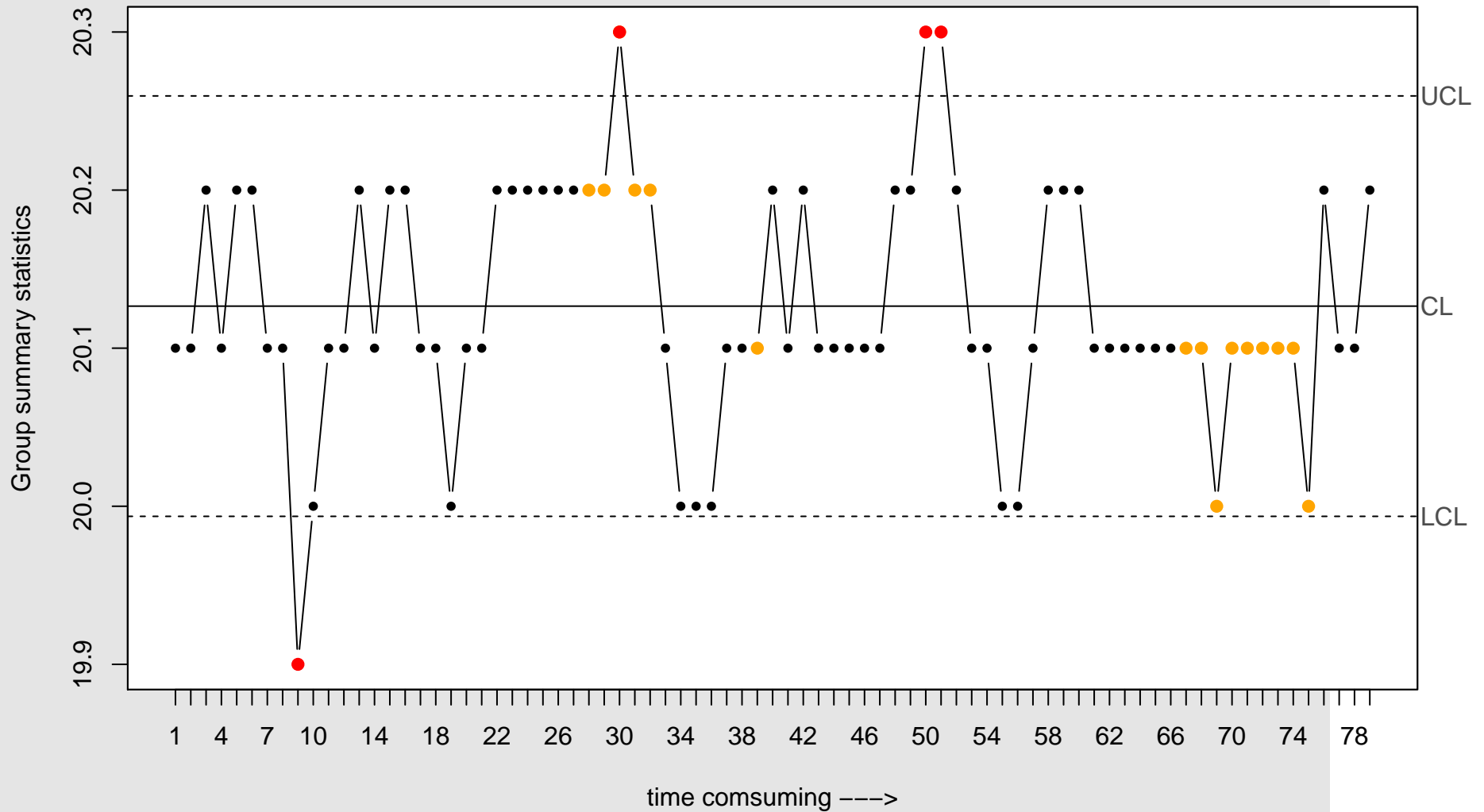


Number of groups = 79
Center = 20.13924
StdDev = 0.04773595

LCL = 19.99603
UCL = 20.28245

Number beyond limits = 8
Number violating runs = 8

84th column point of this product

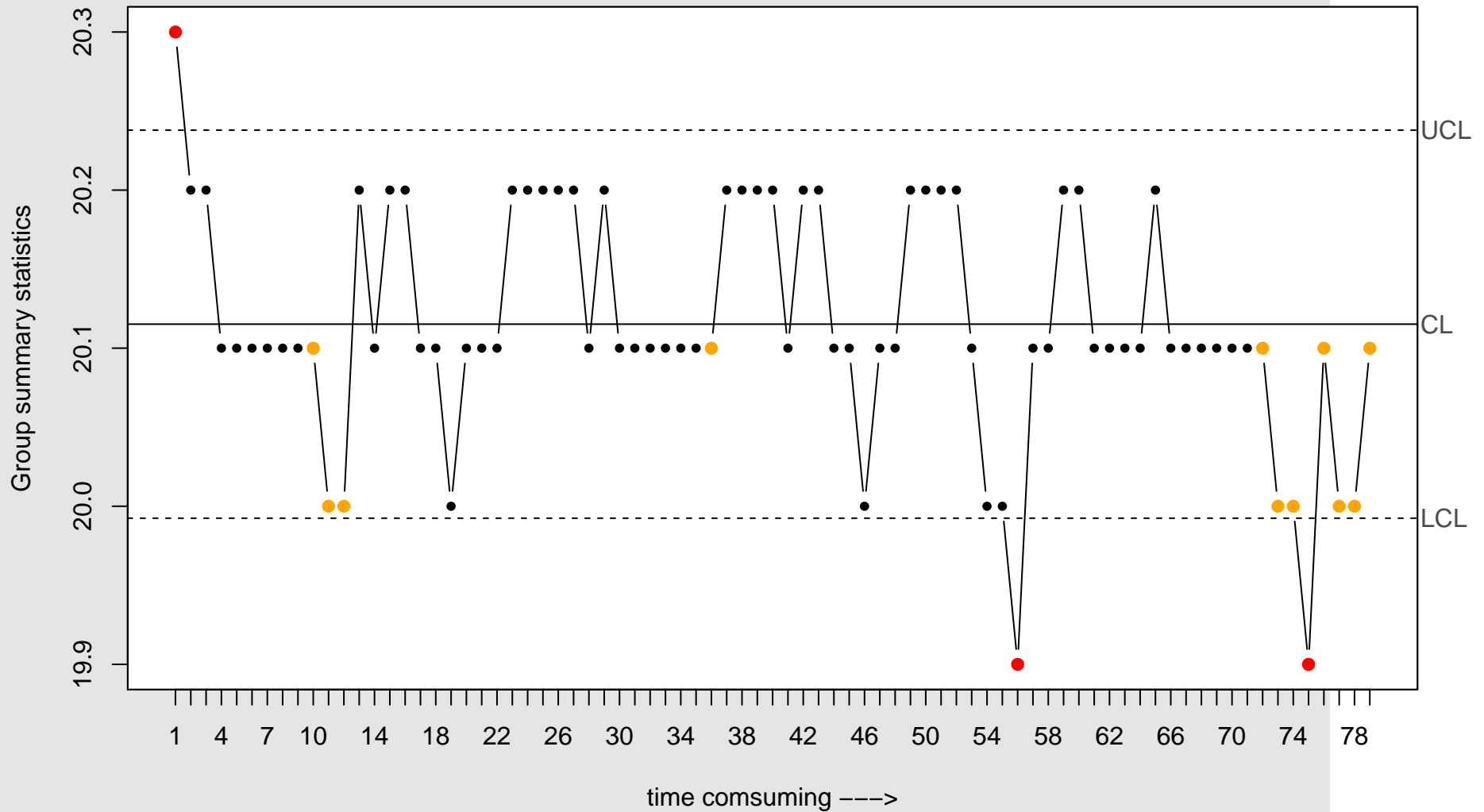


Number of groups = 79
 Center = 20.12658
 StdDev = 0.04432624

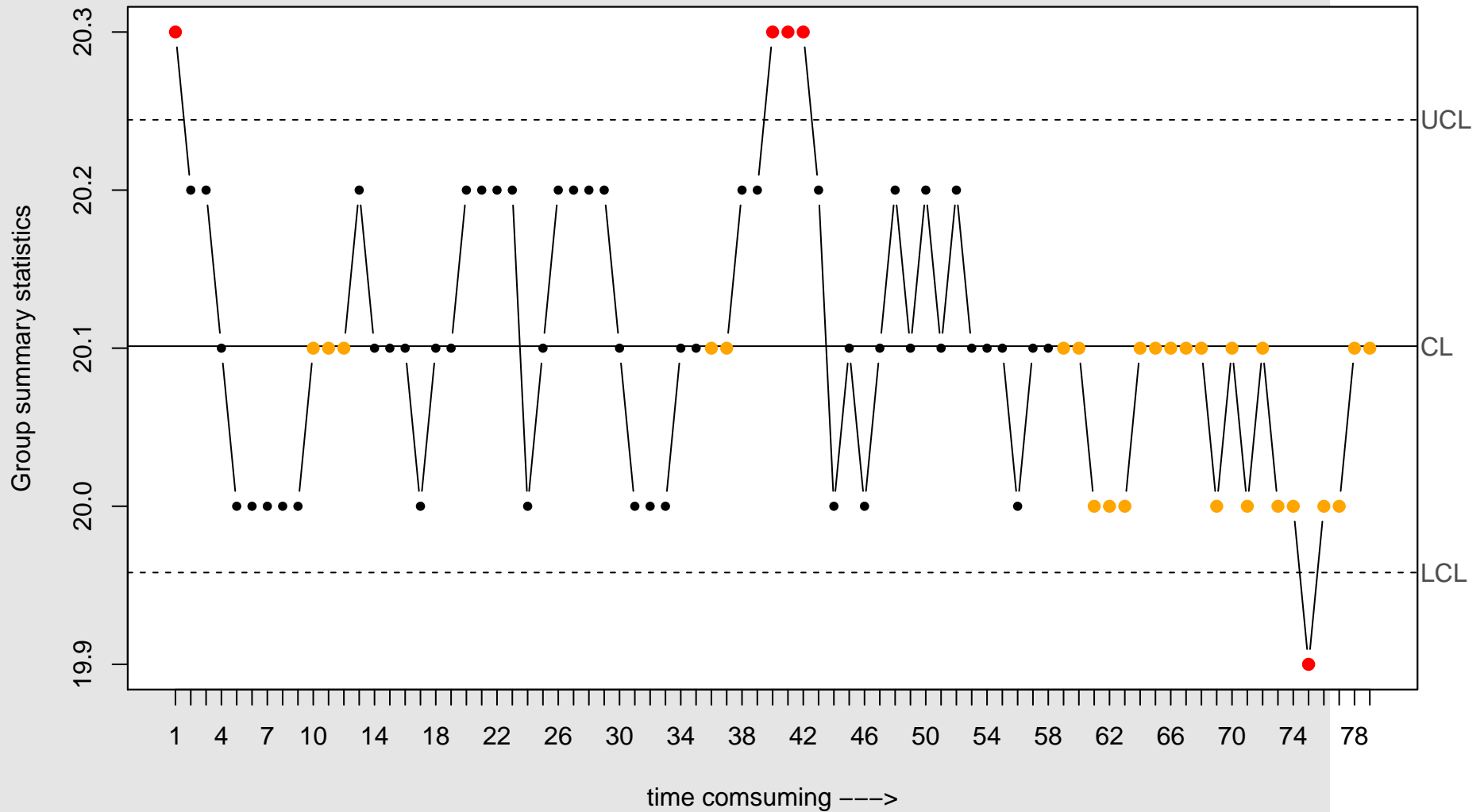
LCL = 19.9936
 UCL = 20.25956

Number beyond limits = 4
 Number violating runs = 15

85th column point of this product



86th column point of this product

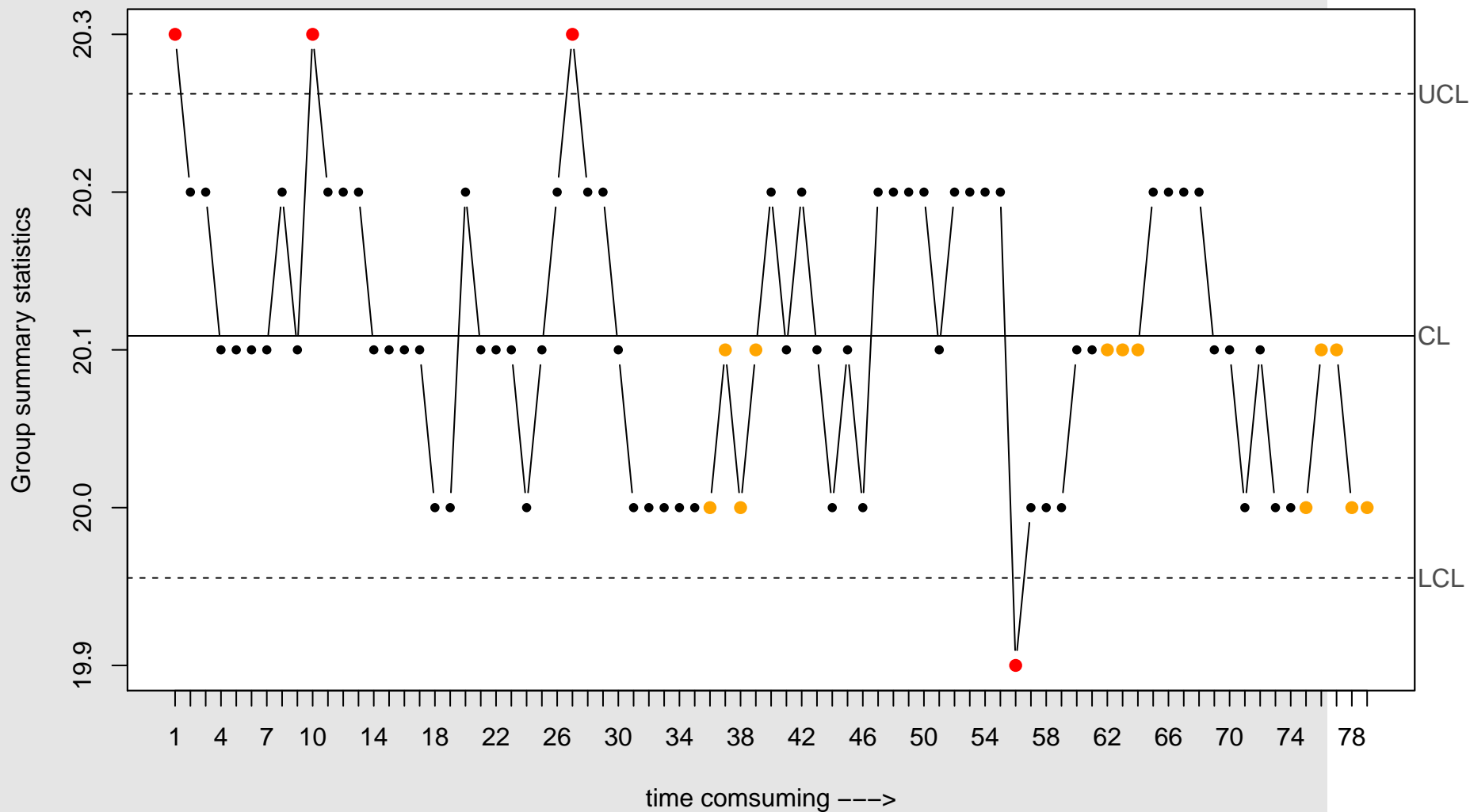


Number of groups = 79
 Center = 20.10127
 StdDev = 0.04773595

LCL = 19.95806
 UCL = 20.24447

Number beyond limits = 5
 Number violating runs = 26

87th column point of this product

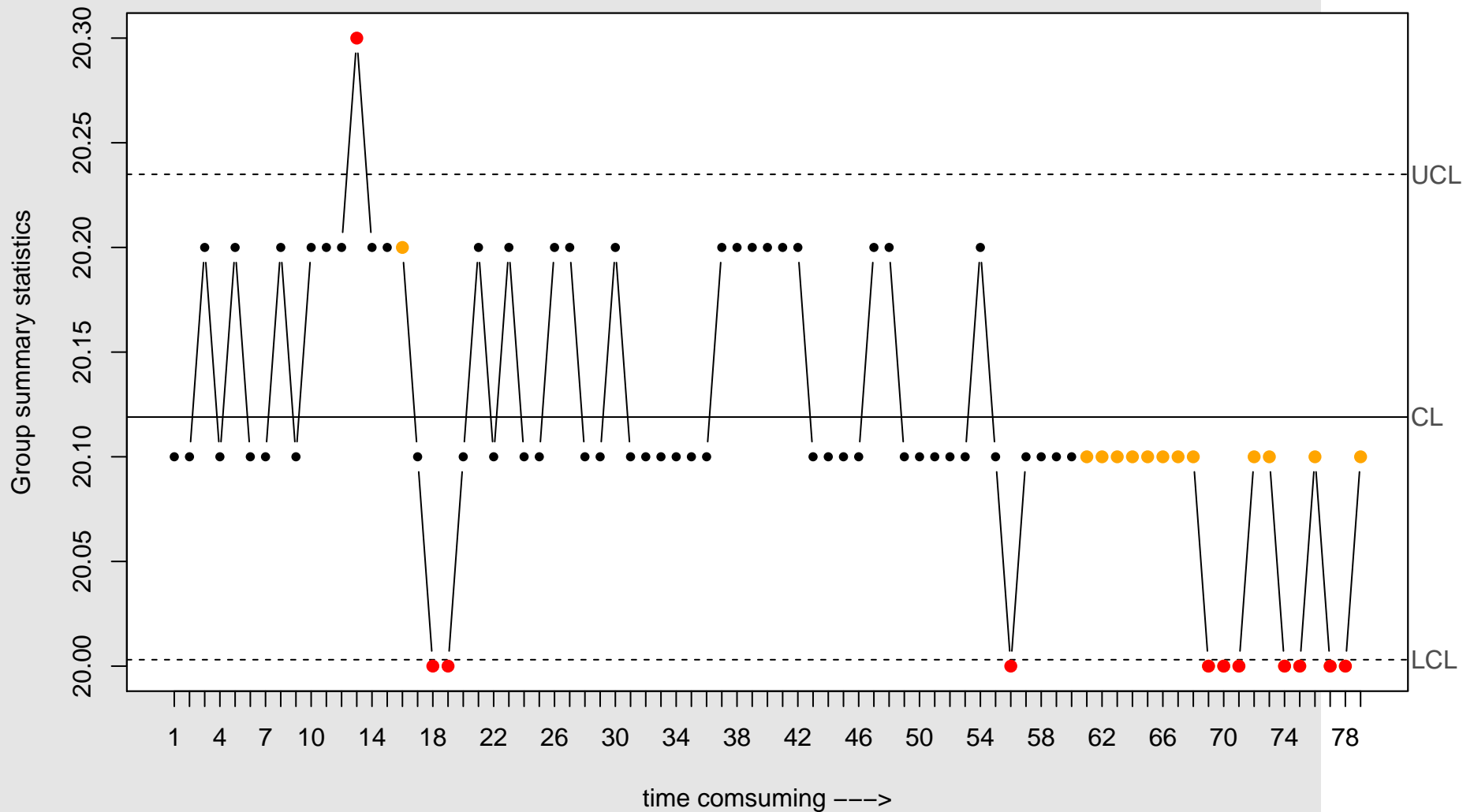


Number of groups = 79
Center = 20.10886
StdDev = 0.05114566

LCL = 19.95542
UCL = 20.2623

Number beyond limits = 4
Number violating runs = 12

88th column point of this product

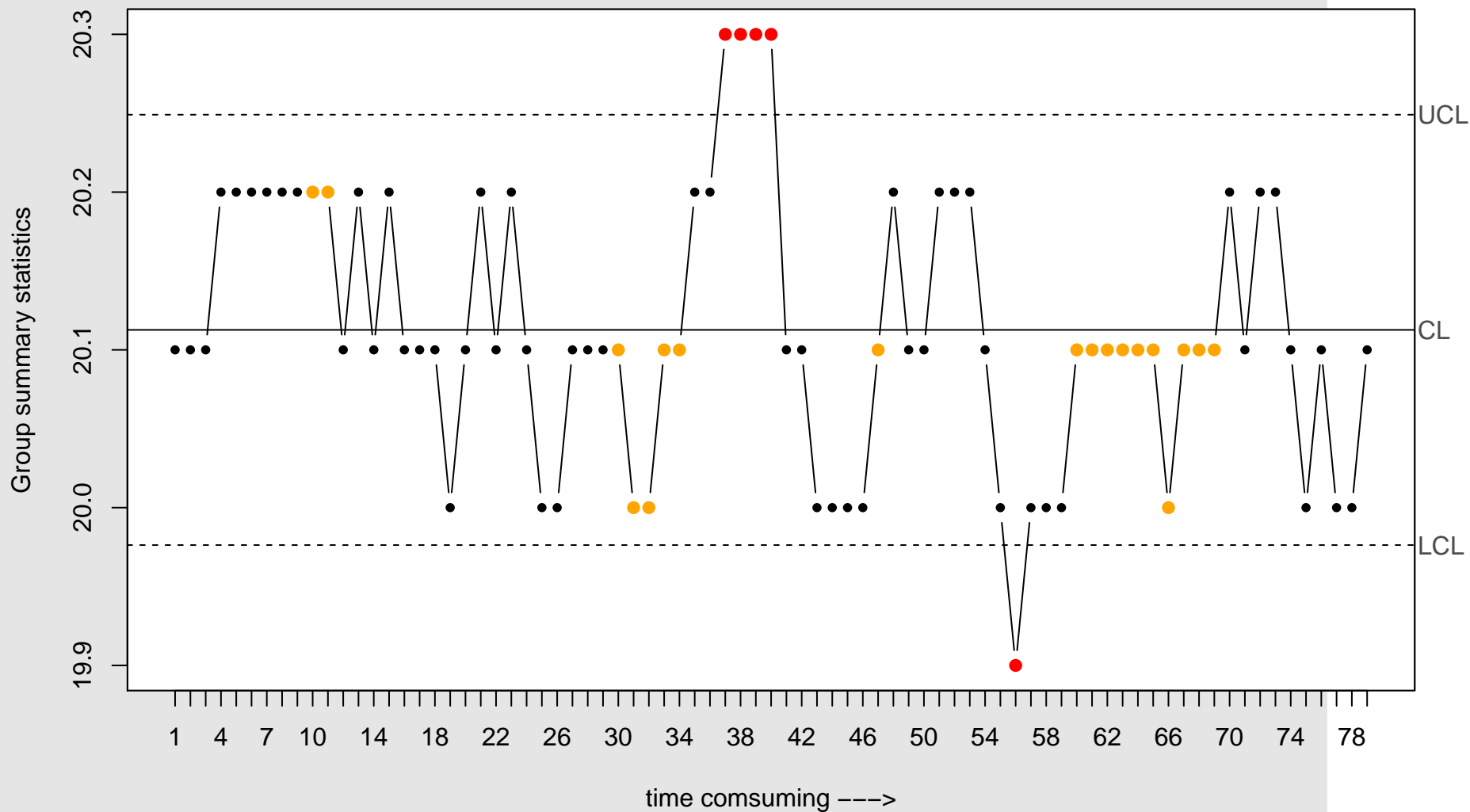


Number of groups = 79
Center = 20.11899
StdDev = 0.03864339

LCL = 20.00306
UCL = 20.23492

Number beyond limits = 11
Number violating runs = 20

89th column point of this product

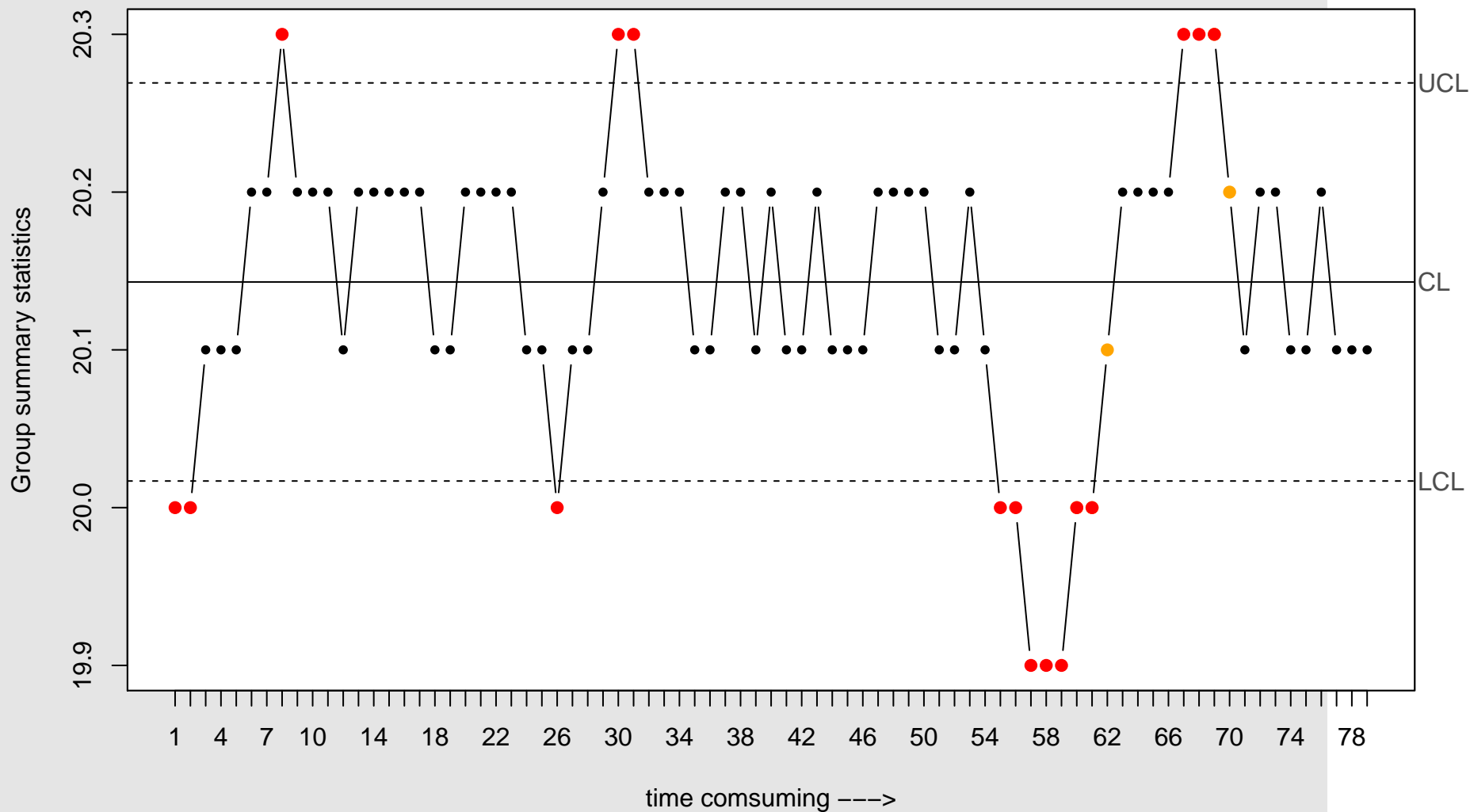


Number of groups = 79
Center = 20.11266
StdDev = 0.04546281

LCL = 19.97627
UCL = 20.24905

Number beyond limits = 5
Number violating runs = 18

90th column point of this product

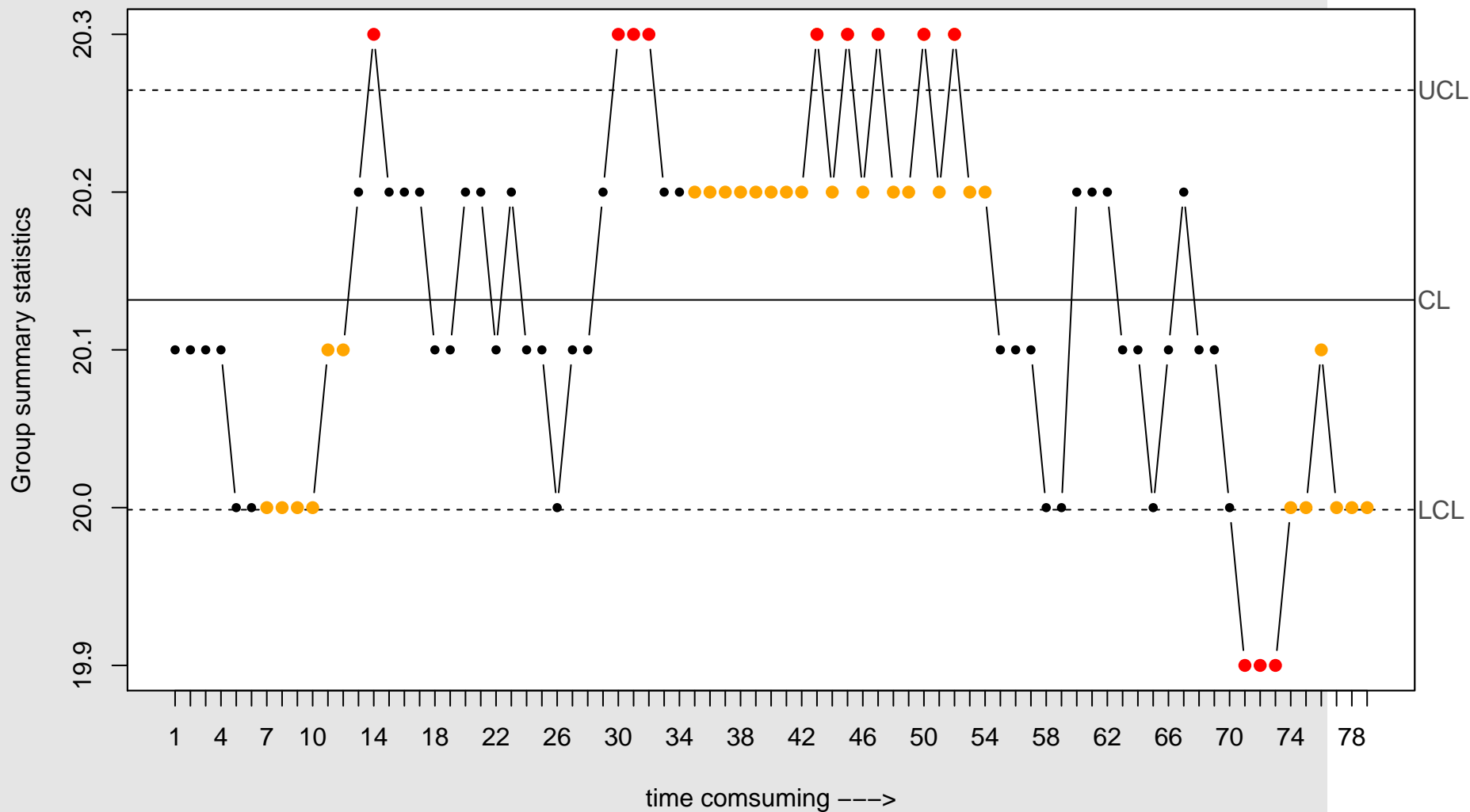


Number of groups = 79
Center = 20.14304
StdDev = 0.0420531

LCL = 20.01688
UCL = 20.2692

Number beyond limits = 16
Number violating runs = 5

91th column point of this product

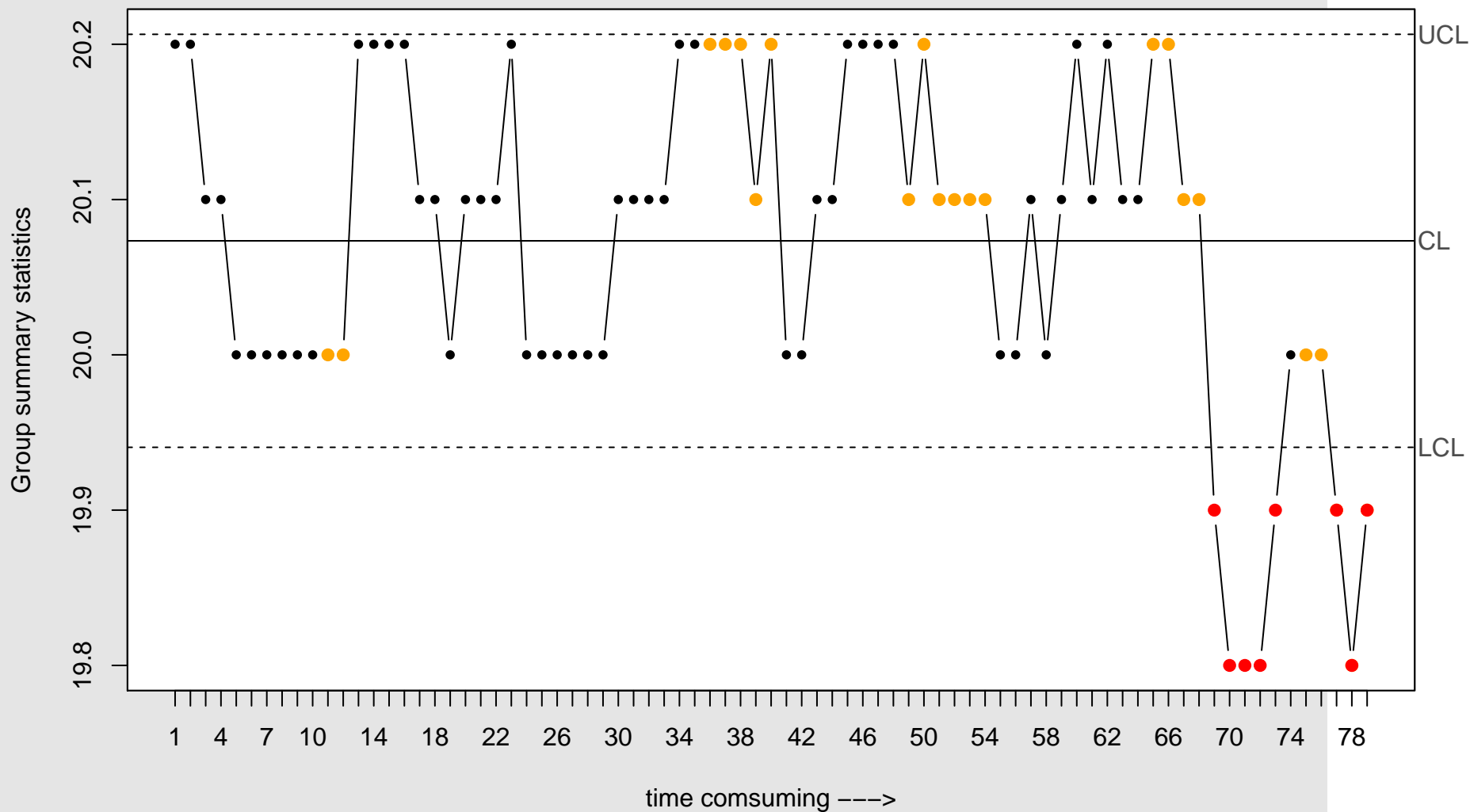


Number of groups = 79
 Center = 20.13165
 StdDev = 0.04432624

LCL = 19.99867
 UCL = 20.26462

Number beyond limits = 12
 Number violating runs = 32

92th column point of this product

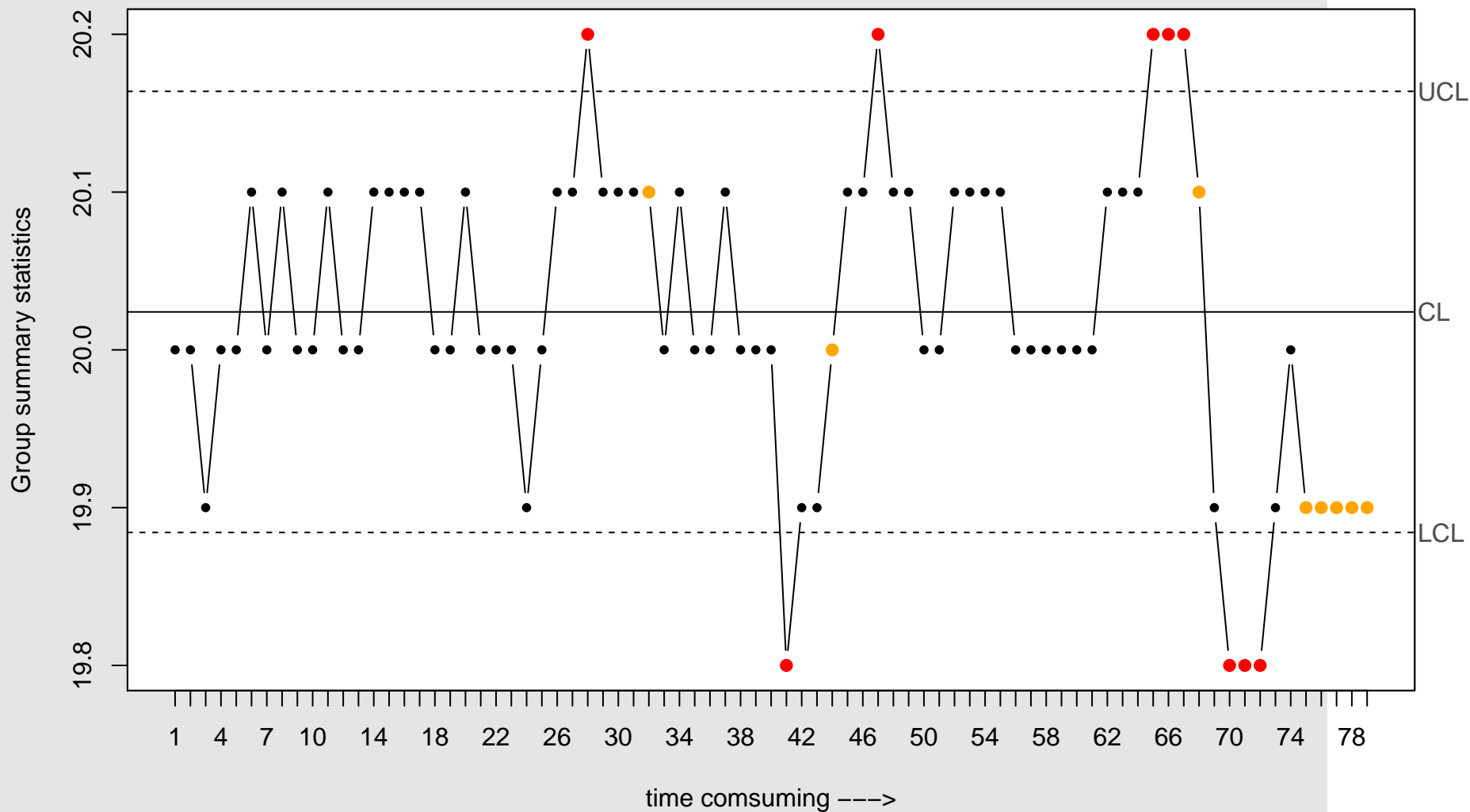


Number of groups = 79
Center = 20.07342
StdDev = 0.04432624

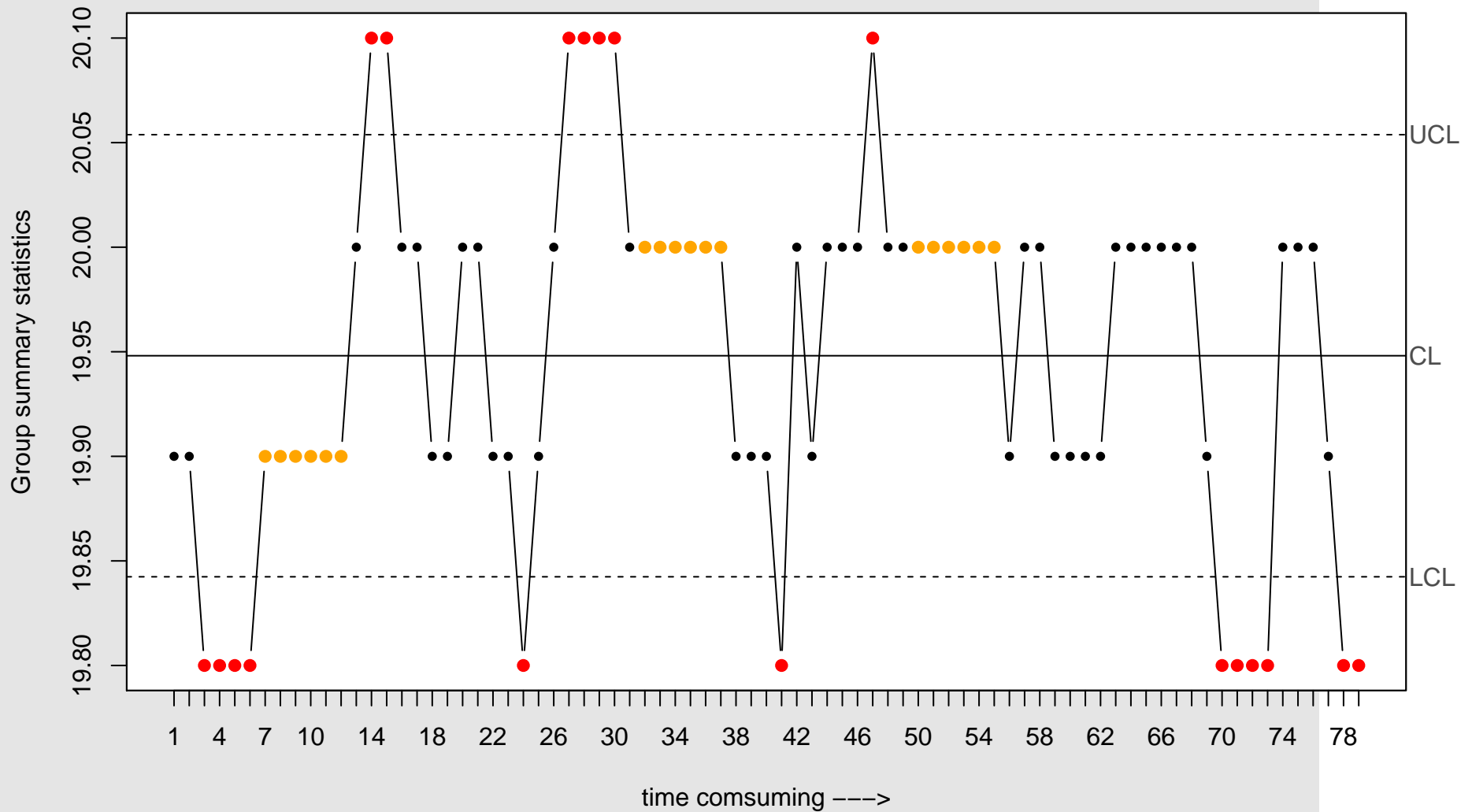
LCL = 19.94044
UCL = 20.2064

Number beyond limits = 8
Number violating runs = 22

93th column point of this product



94th column point of this product

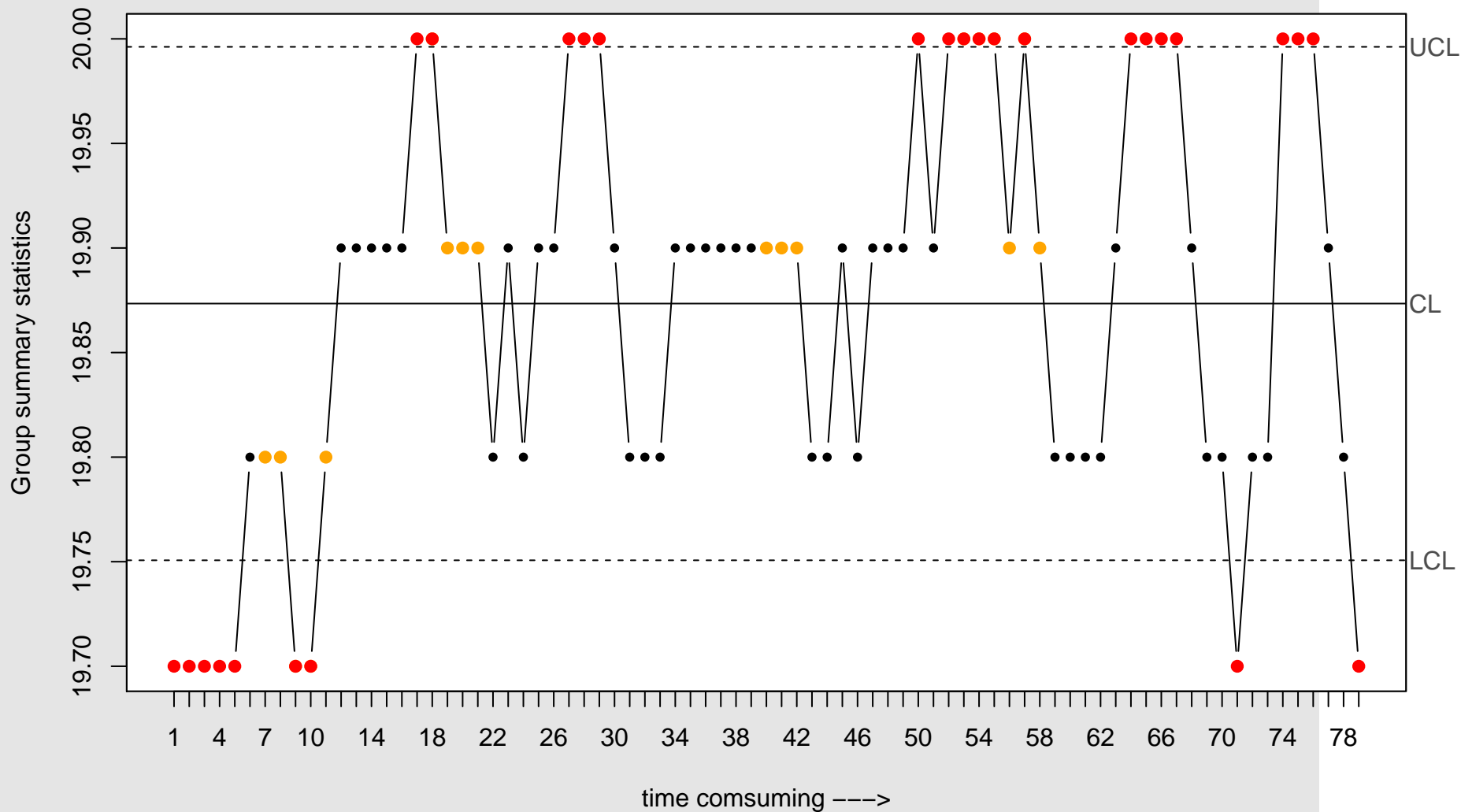


Number of groups = 79
 Center = 19.9481
 StdDev = 0.03523368

LCL = 19.8424
 UCL = 20.0538

Number beyond limits = 19
 Number violating runs = 18

95th column point of this product

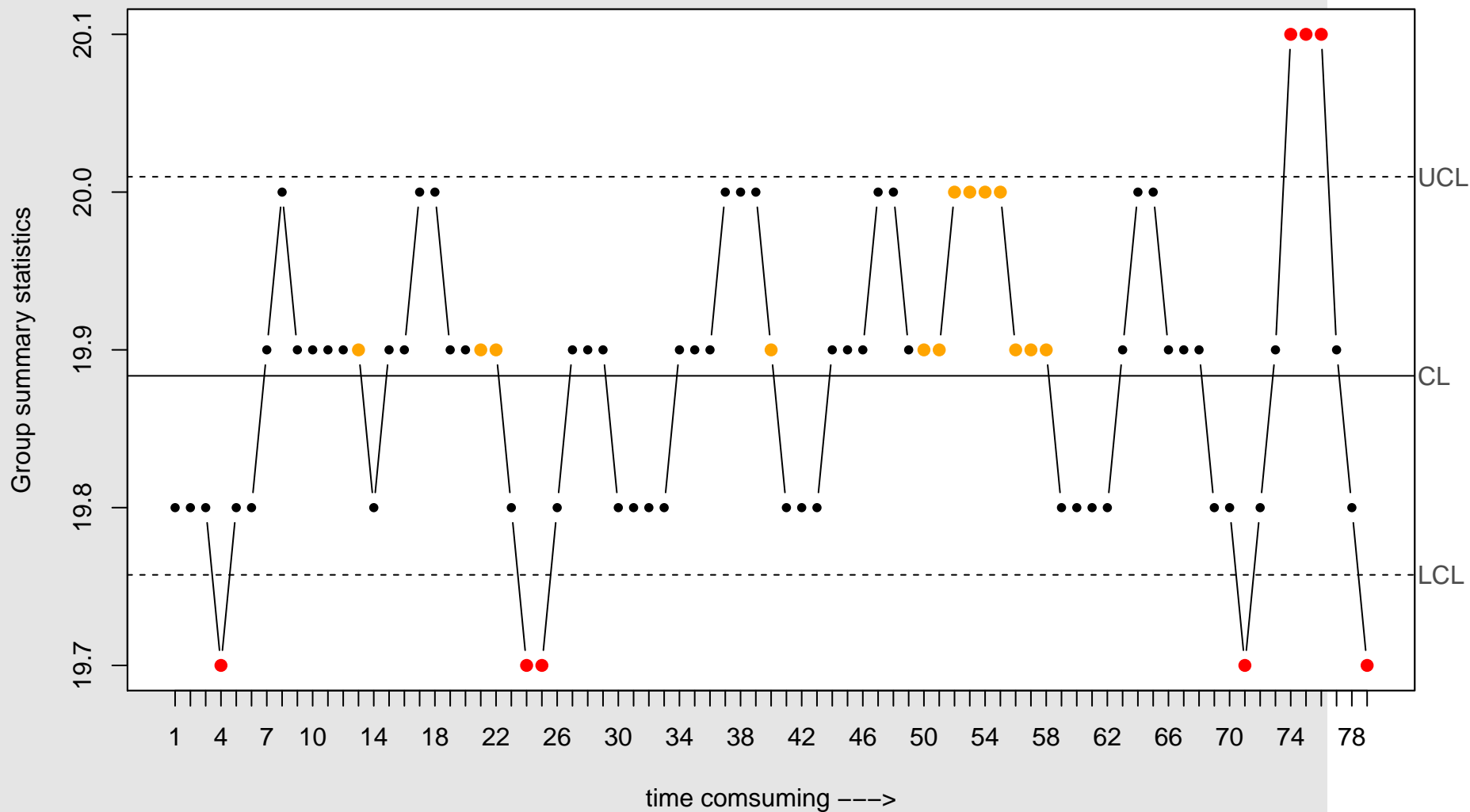


Number of groups = 79
Center = 19.87342
StdDev = 0.04091653

LCL = 19.75067
UCL = 19.99617

Number beyond limits = 27
Number violating runs = 18

96th column point of this product

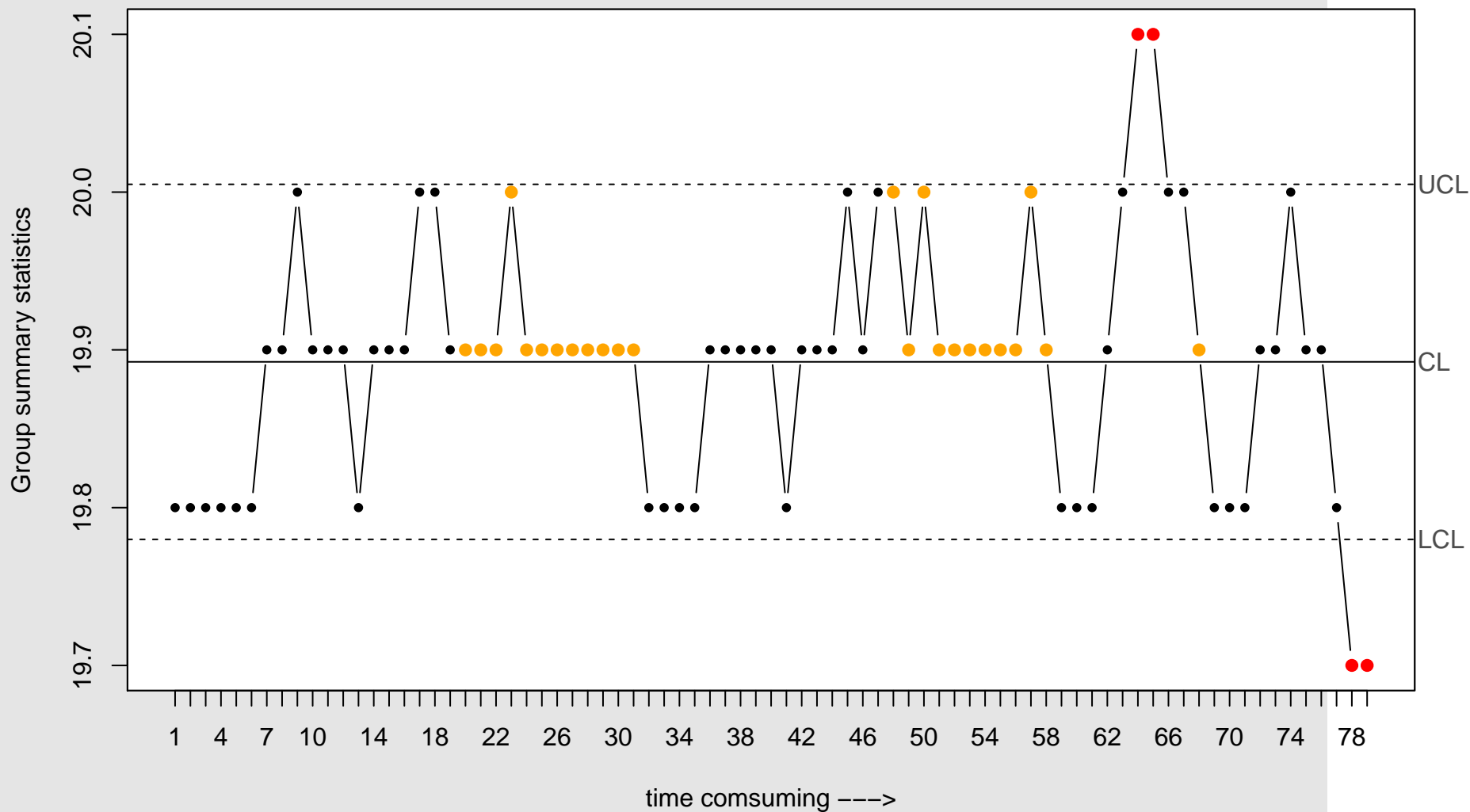


Number of groups = 79
Center = 19.88354
StdDev = 0.0420531

LCL = 19.75739
UCL = 20.0097

Number beyond limits = 8
Number violating runs = 13

97th column point of this product

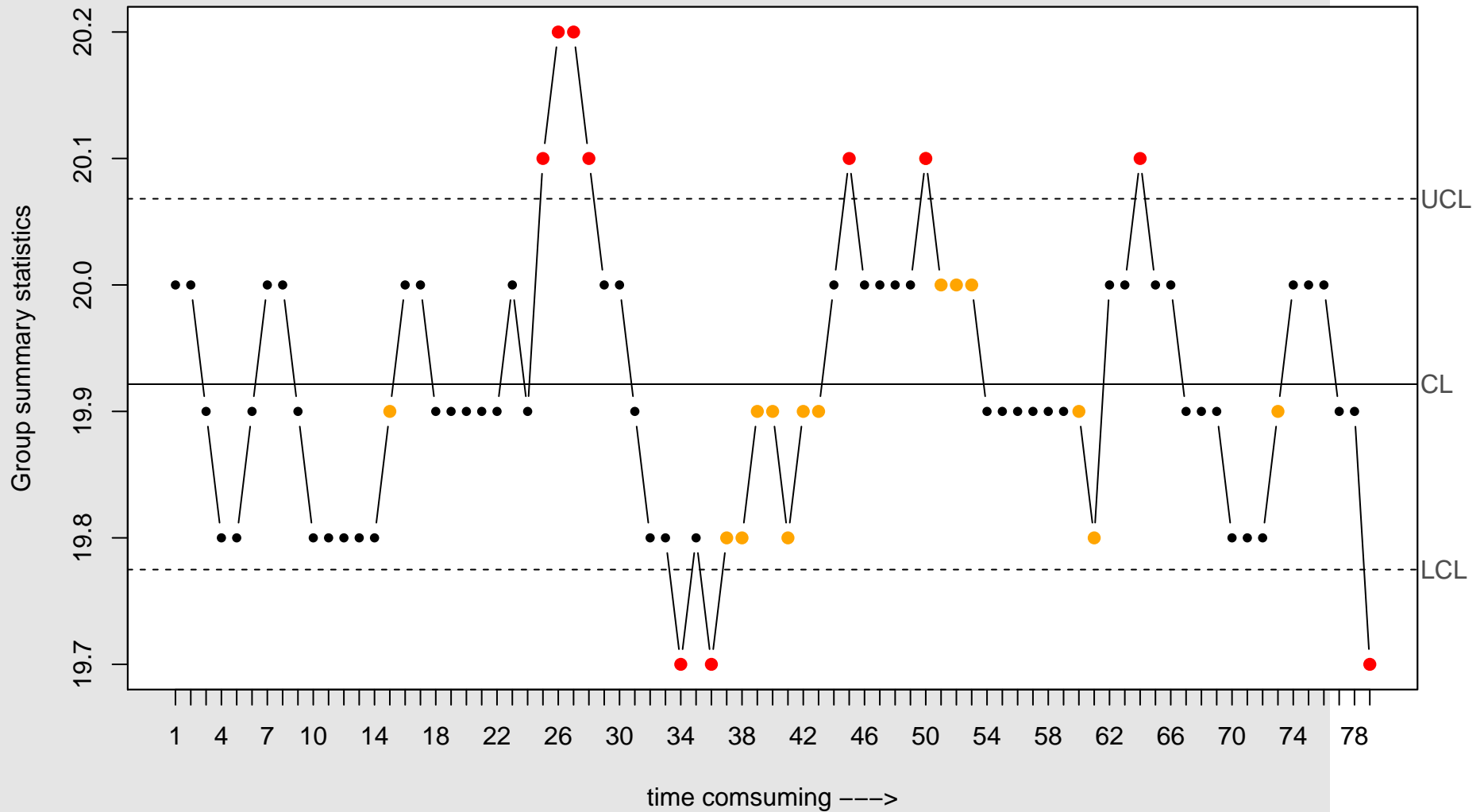


Number of groups = 79
Center = 19.89241
StdDev = 0.03750682

LCL = 19.77988
UCL = 20.00493

Number beyond limits = 4
Number violating runs = 24

98th column point of this product

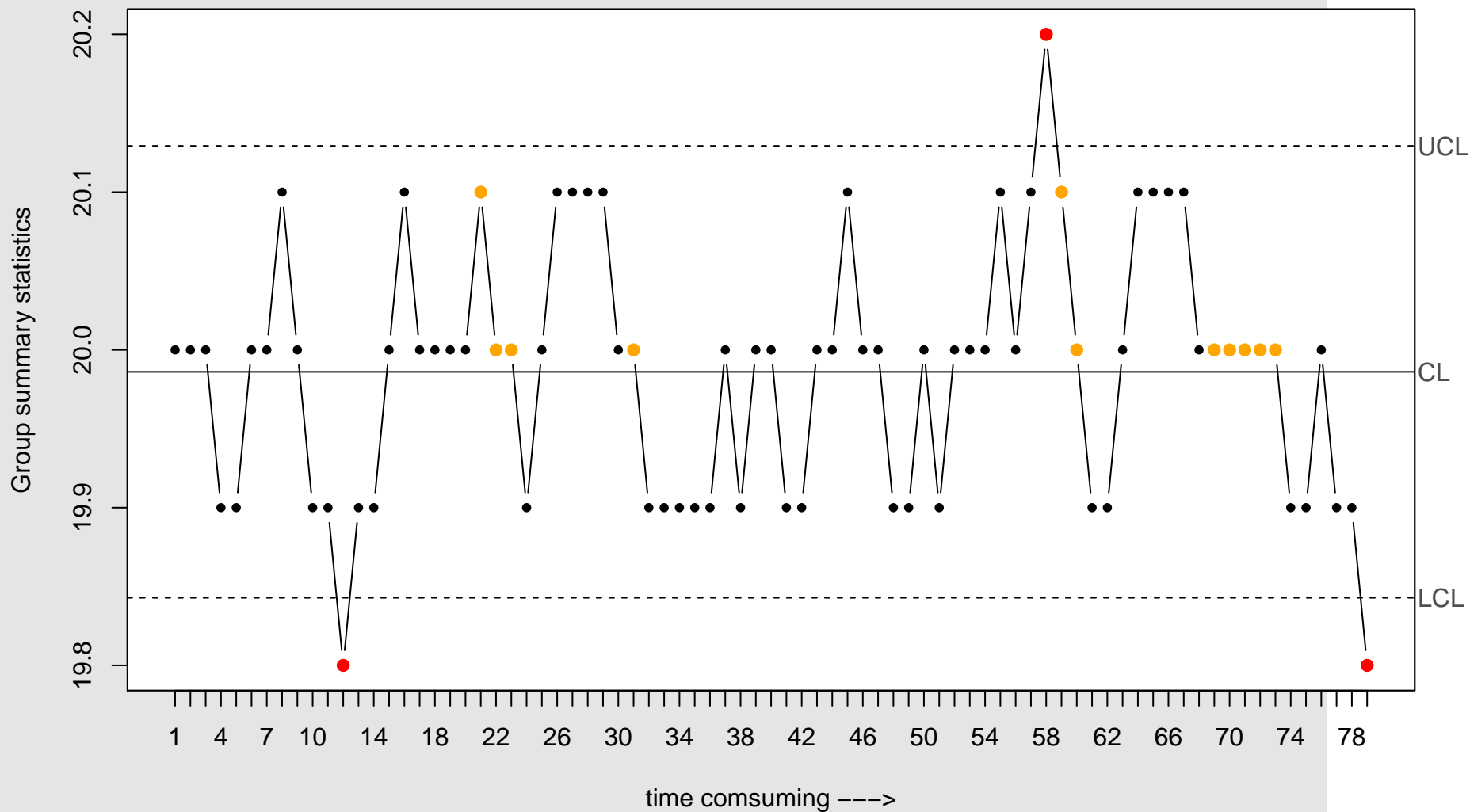


Number of groups = 79
Center = 19.92152
StdDev = 0.04887252

LCL = 19.7749
UCL = 20.06814

Number beyond limits = 10
Number violating runs = 15

99th column point of this product

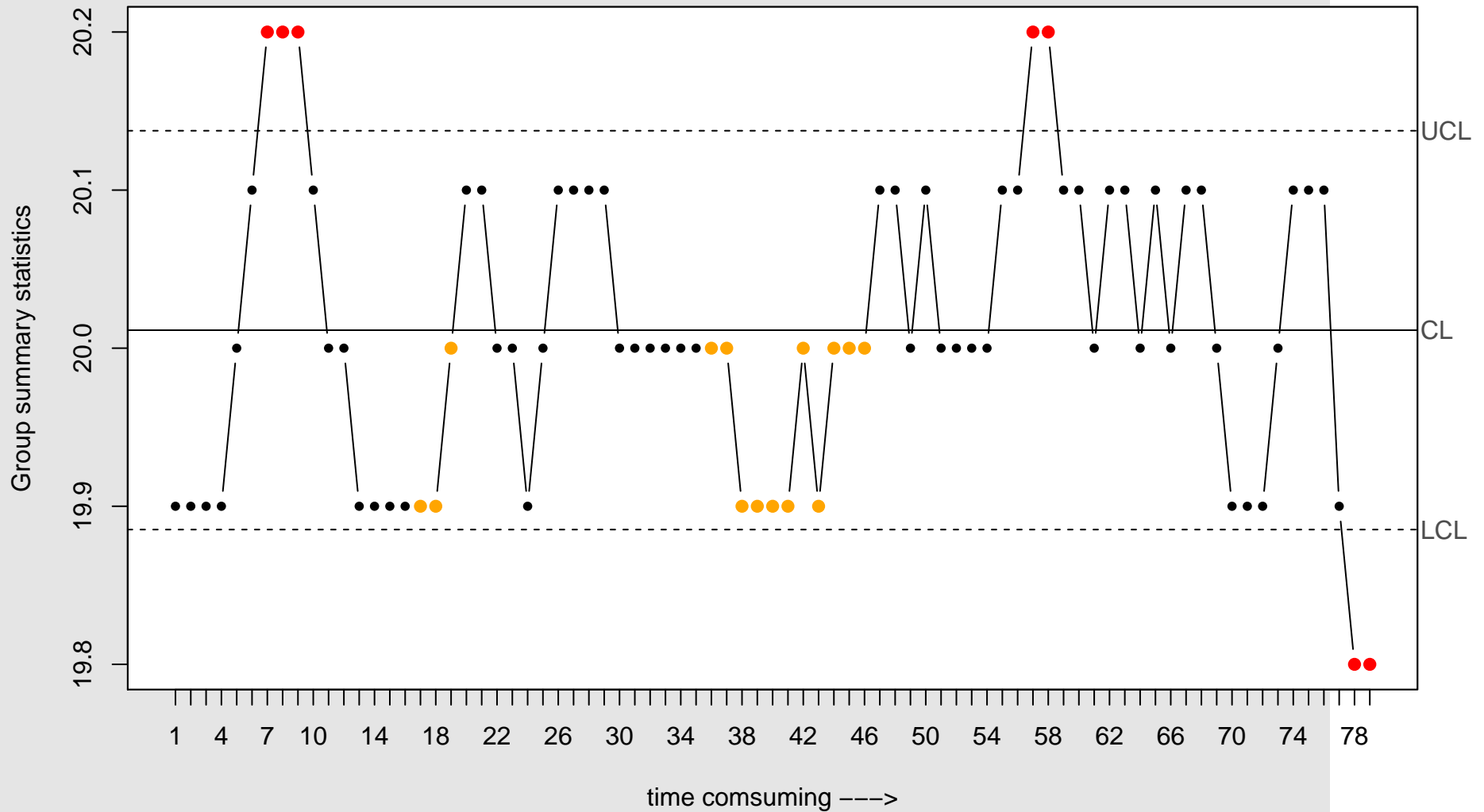


Number of groups = 79
 Center = 19.98608
 StdDev = 0.04773595

LCL = 19.84287
 UCL = 20.12928

Number beyond limits = 3
 Number violating runs = 12

100th column point of this product

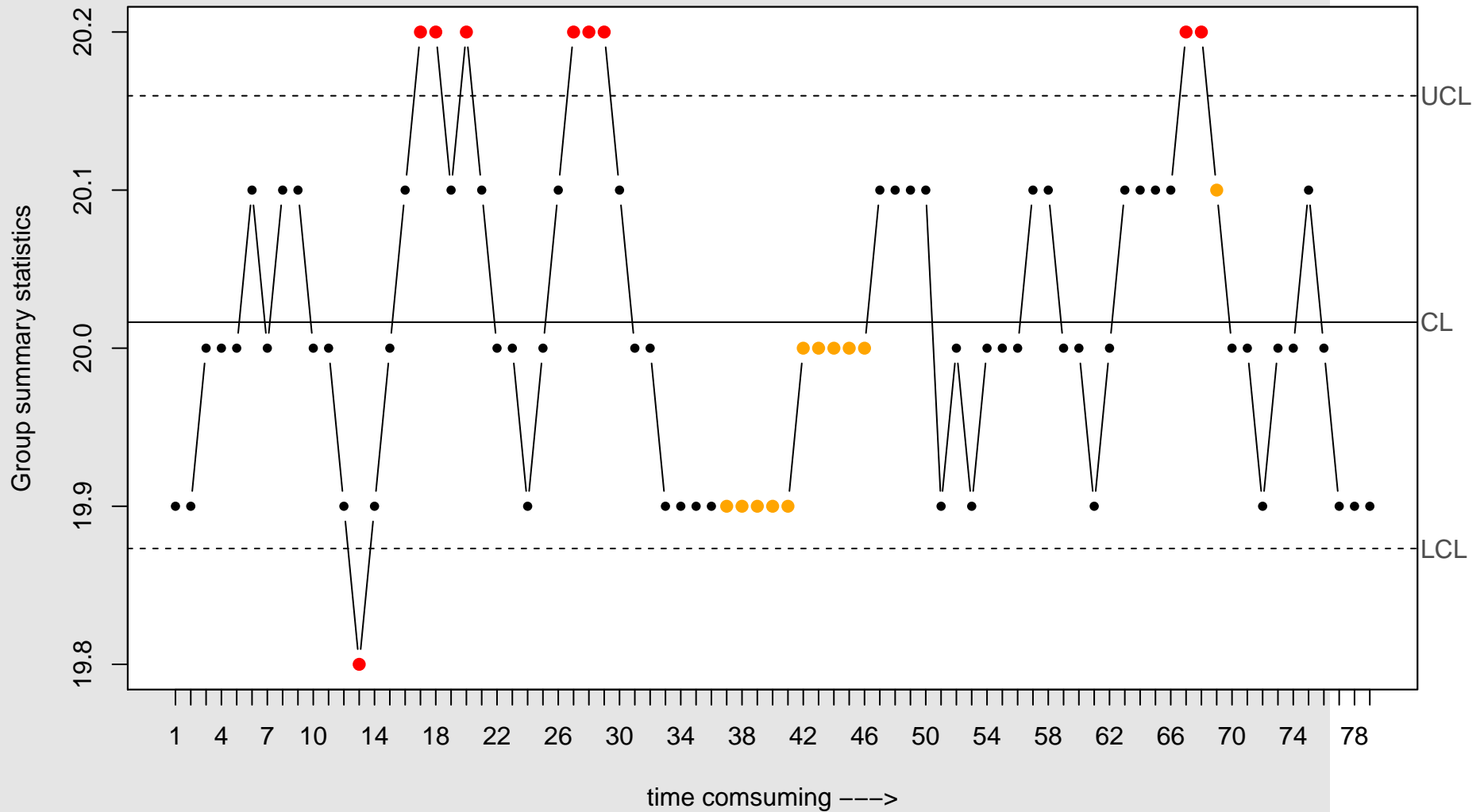


Number of groups = 79
 Center = 20.01139
 StdDev = 0.0420531

LCL = 19.88523
 UCL = 20.13755

Number beyond limits = 7
 Number violating runs = 14

101th column point of this product

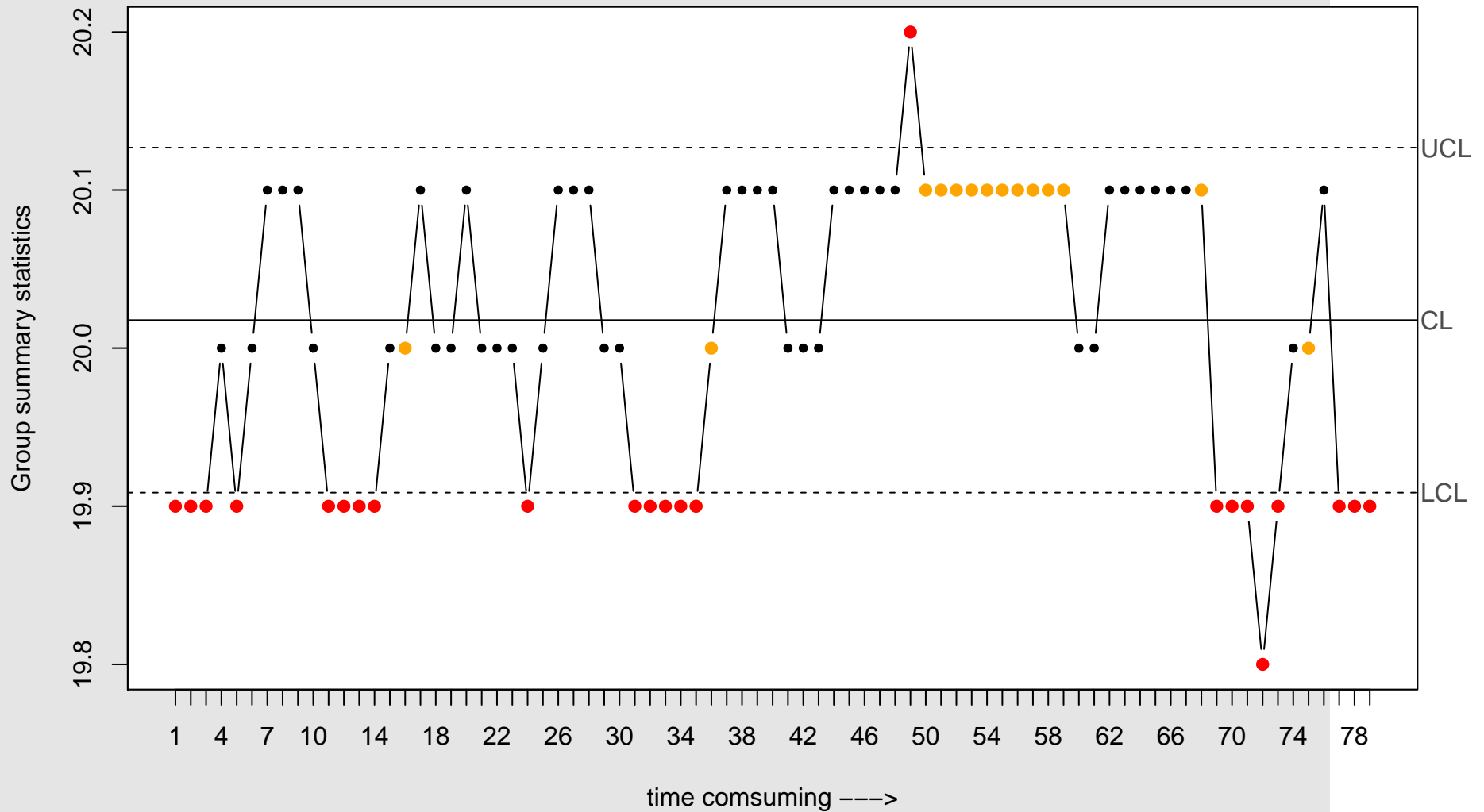


Number of groups = 79
 Center = 20.01646
 StdDev = 0.04773595

LCL = 19.87325
 UCL = 20.15966

Number beyond limits = 9
 Number violating runs = 11

102th column point of this product

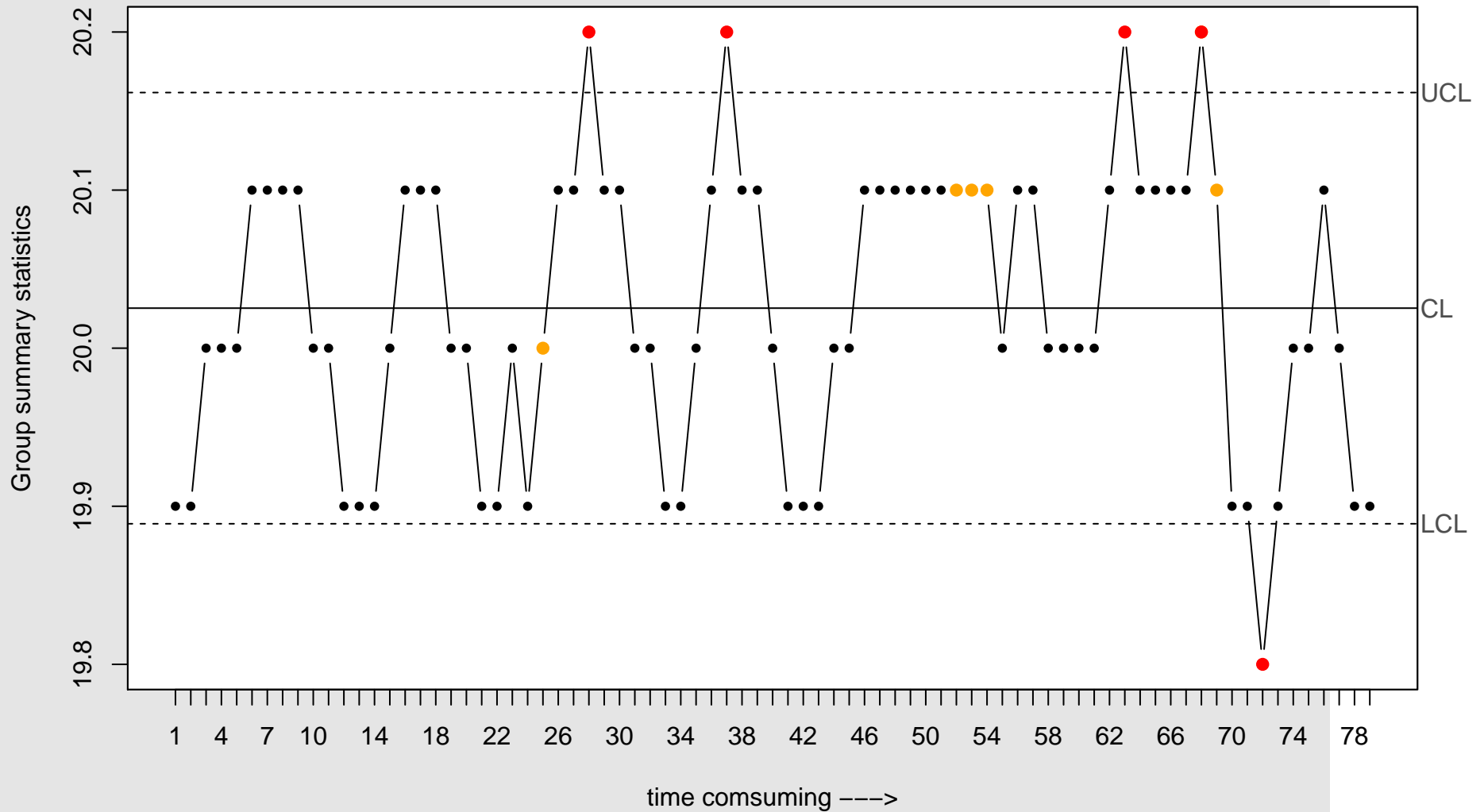


Number of groups = 79
Center = 20.01772
StdDev = 0.03637025

LCL = 19.90861
UCL = 20.12683

Number beyond limits = 23
Number violating runs = 15

103th column point of this product

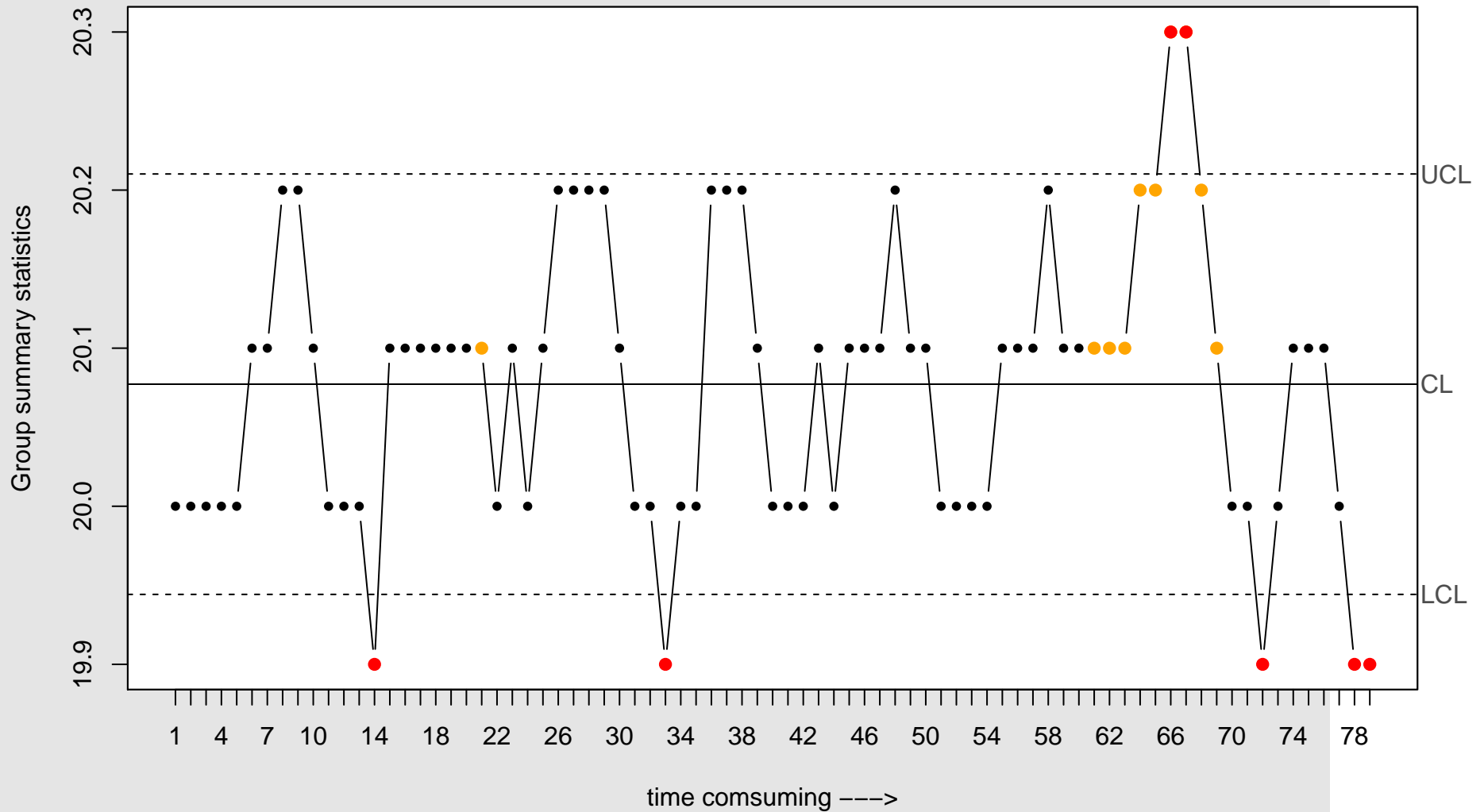


Number of groups = 79
 Center = 20.02532
 StdDev = 0.04546281

LCL = 19.88893
 UCL = 20.1617

Number beyond limits = 5
 Number violating runs = 6

104th column point of this product

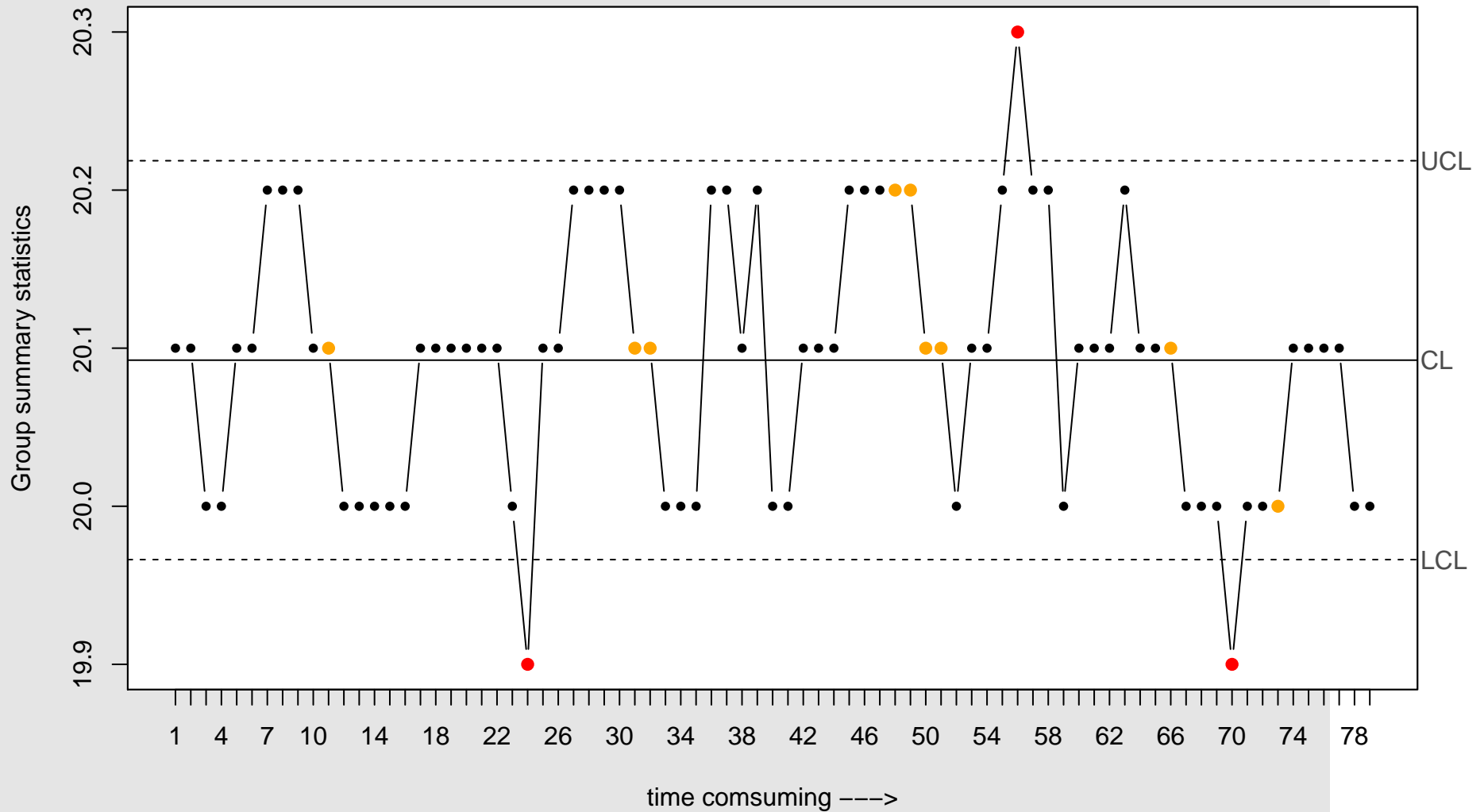


Number of groups = 79
Center = 20.07722
StdDev = 0.04432624

LCL = 19.94424
UCL = 20.21019

Number beyond limits = 7
Number violating runs = 10

105th column point of this product



Number of groups = 79

Center = 20.09241

StdDev = 0.0420531

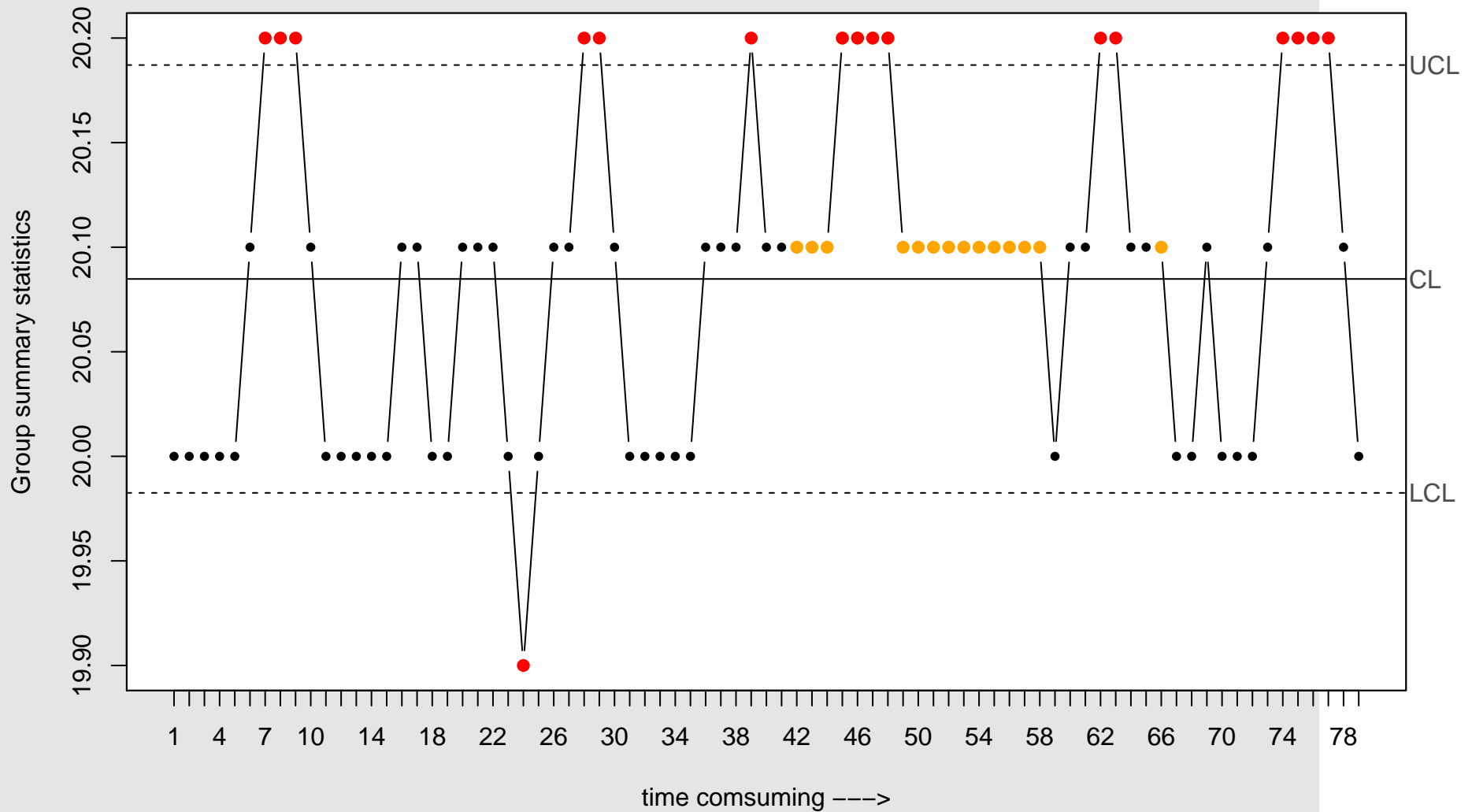
LCL = 19.96625

UCL = 20.21856

Number beyond limits = 3

Number violating runs = 9

106th column point of this product

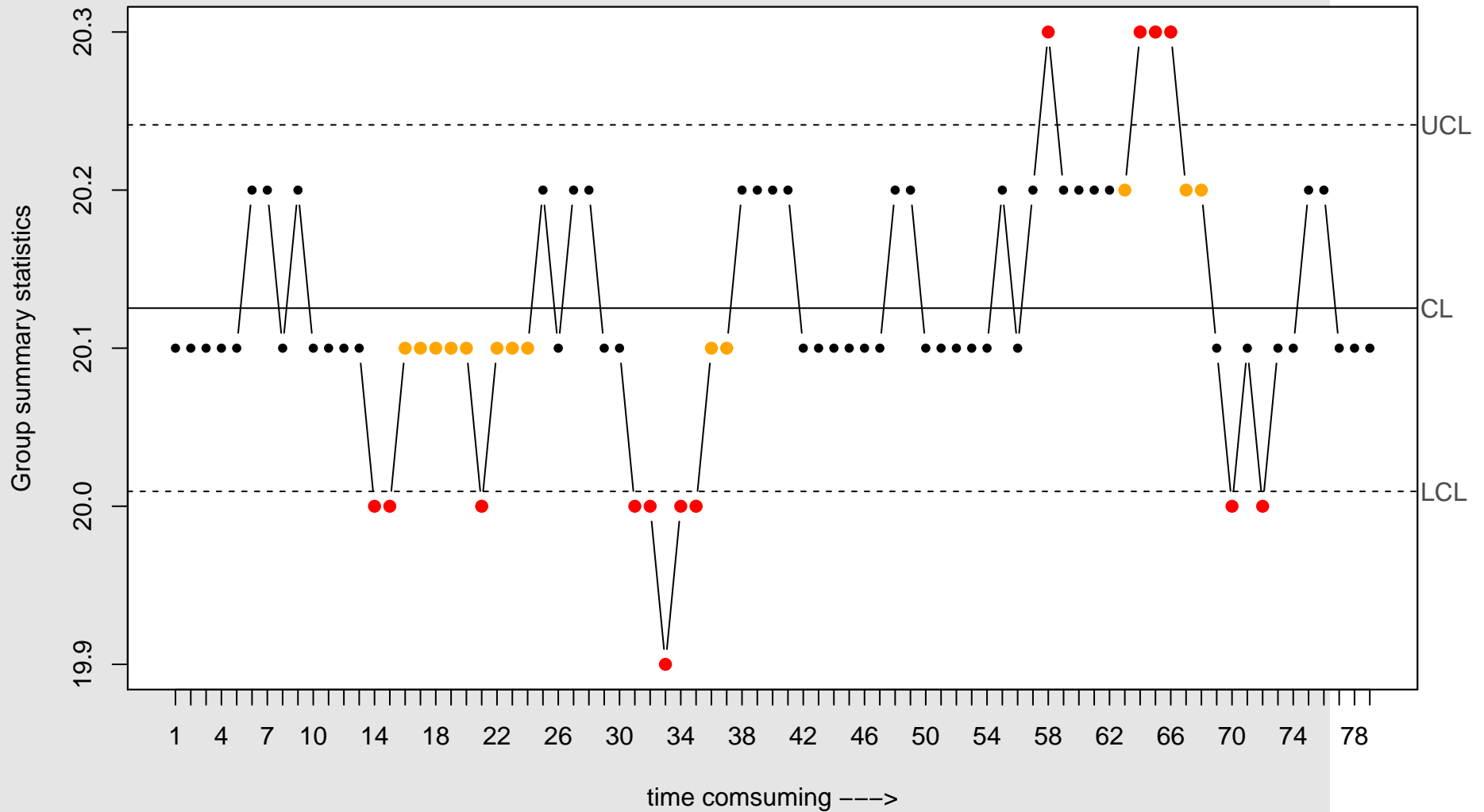


Number of groups = 79
 Center = 20.08481
 StdDev = 0.03409711

LCL = 19.98252
 UCL = 20.1871

Number beyond limits = 17
 Number violating runs = 18

107th column point of this product

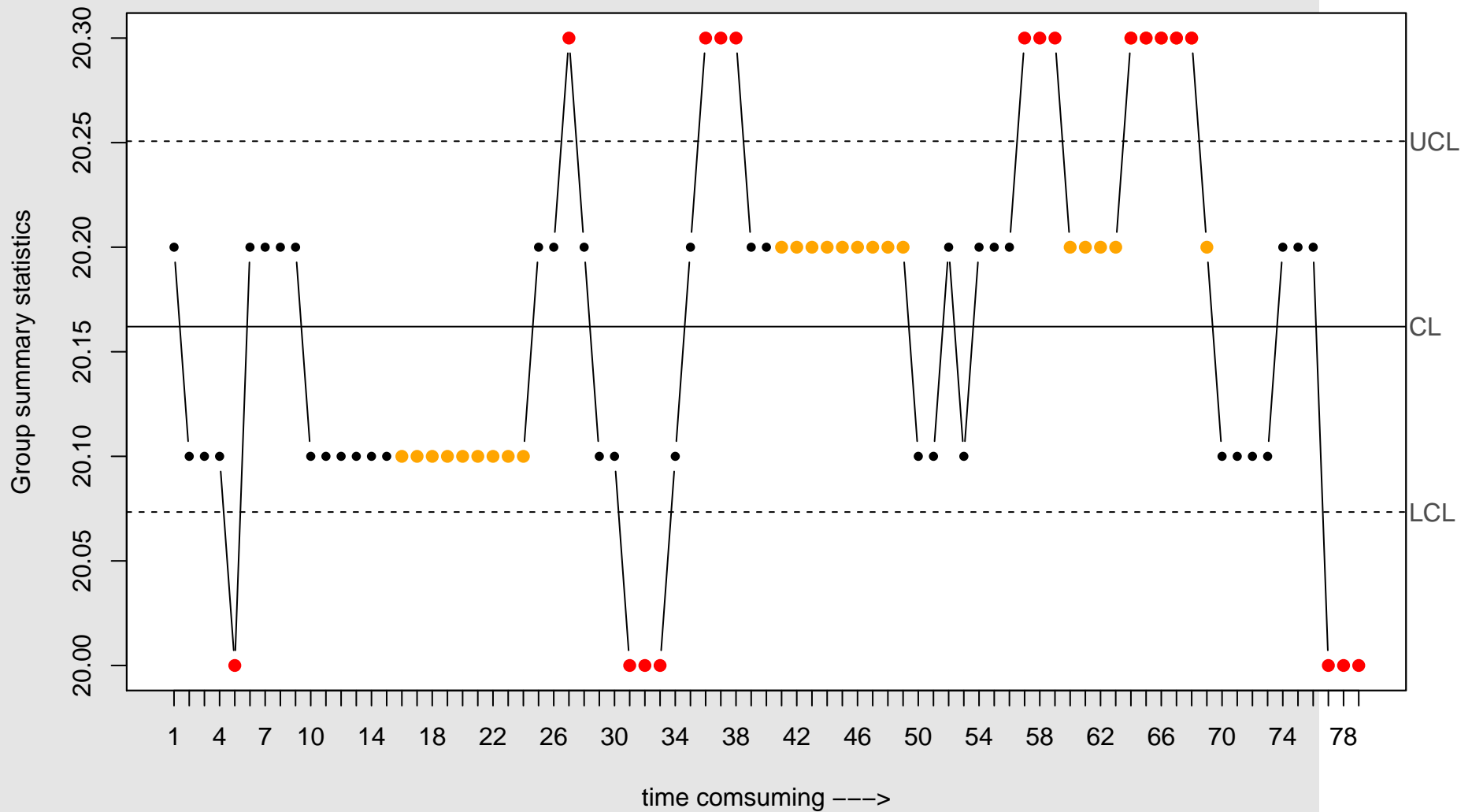


Number of groups = 79
 Center = 20.12532
 StdDev = 0.03864339

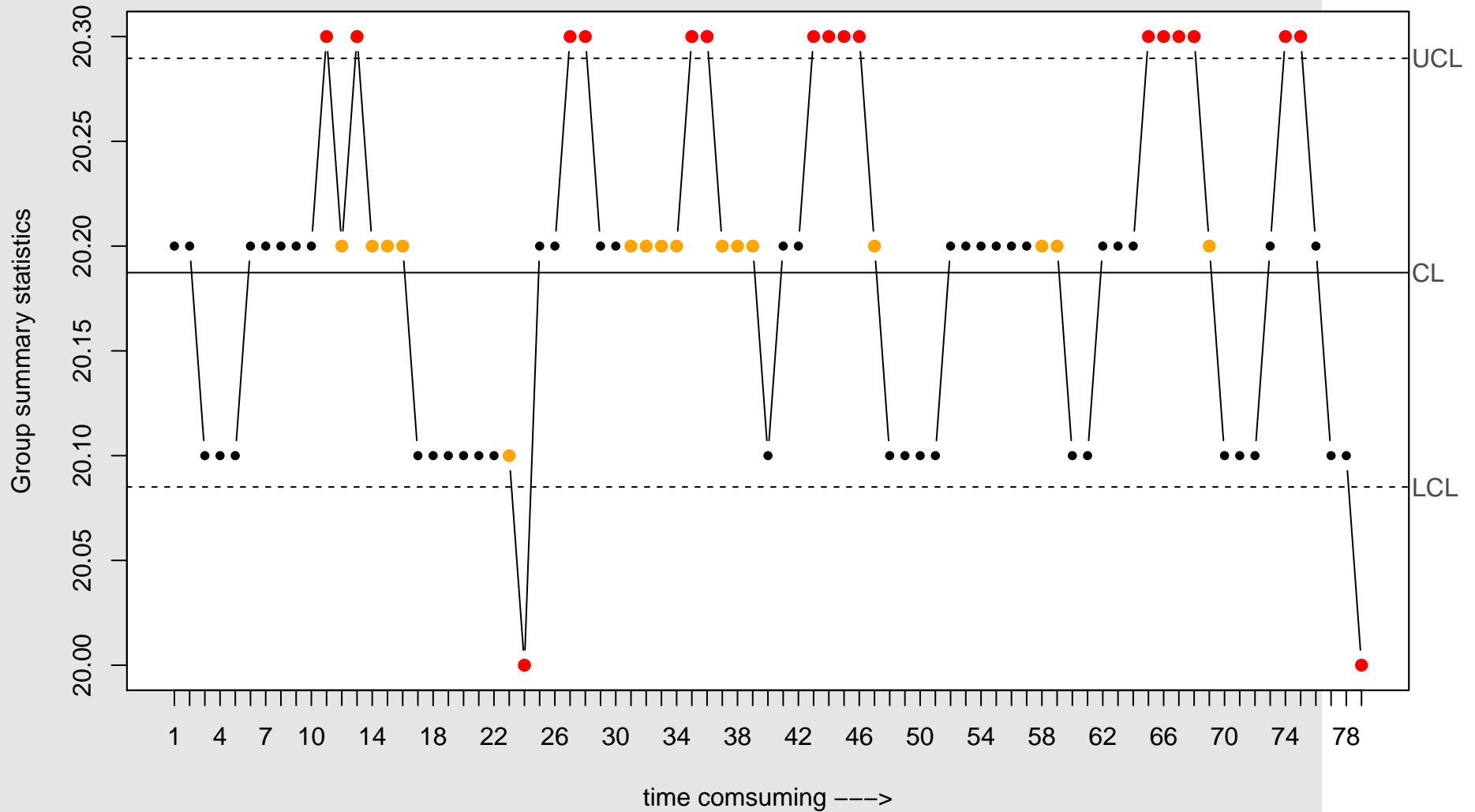
LCL = 20.00939
 UCL = 20.24125

Number beyond limits = 14
 Number violating runs = 18

108th column point of this product



109th column point of this product

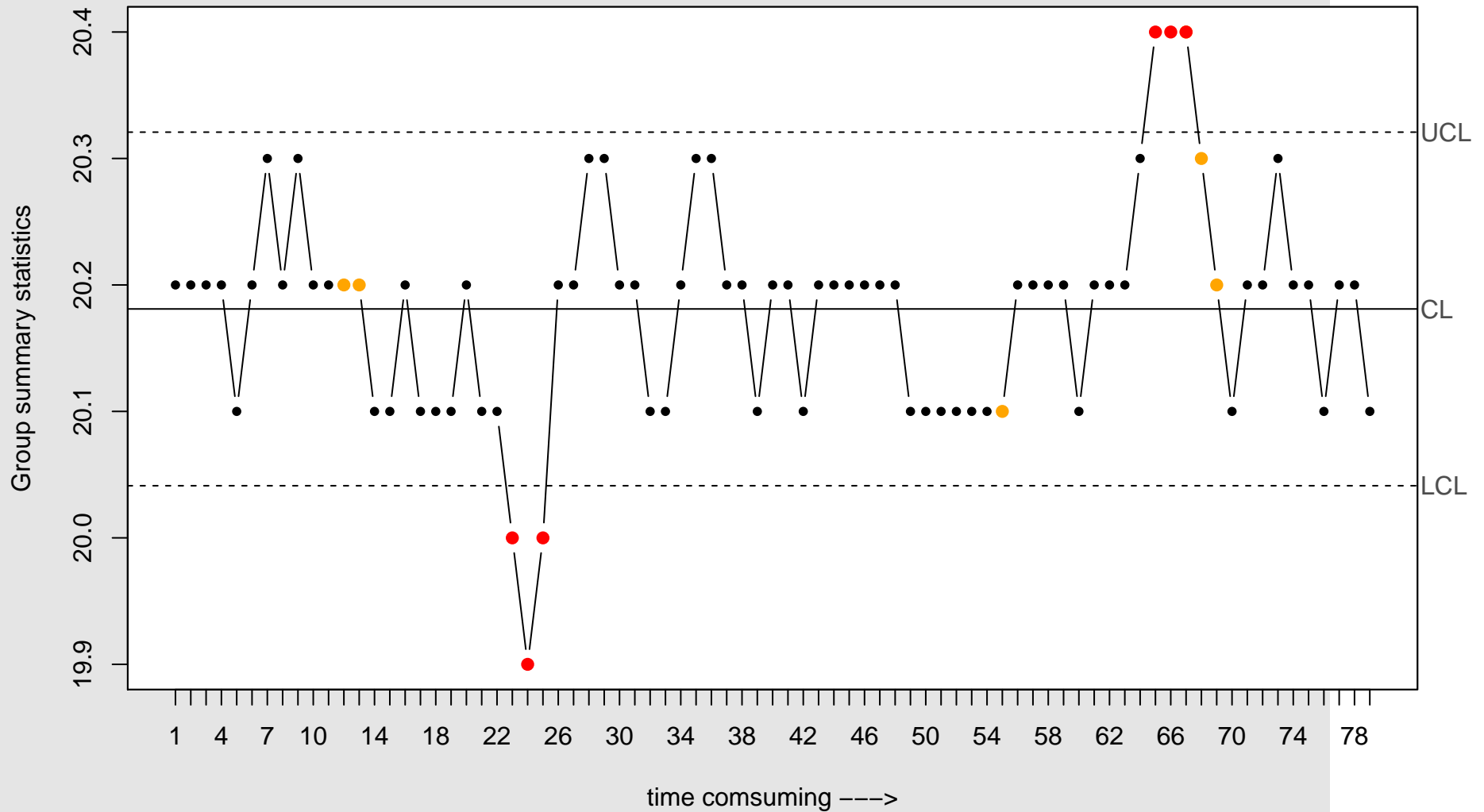


Number of groups = 79
Center = 20.18734
StdDev = 0.03409711

LCL = 20.08505
UCL = 20.28963

Number beyond limits = 18
Number violating runs = 21

110th column point of this product

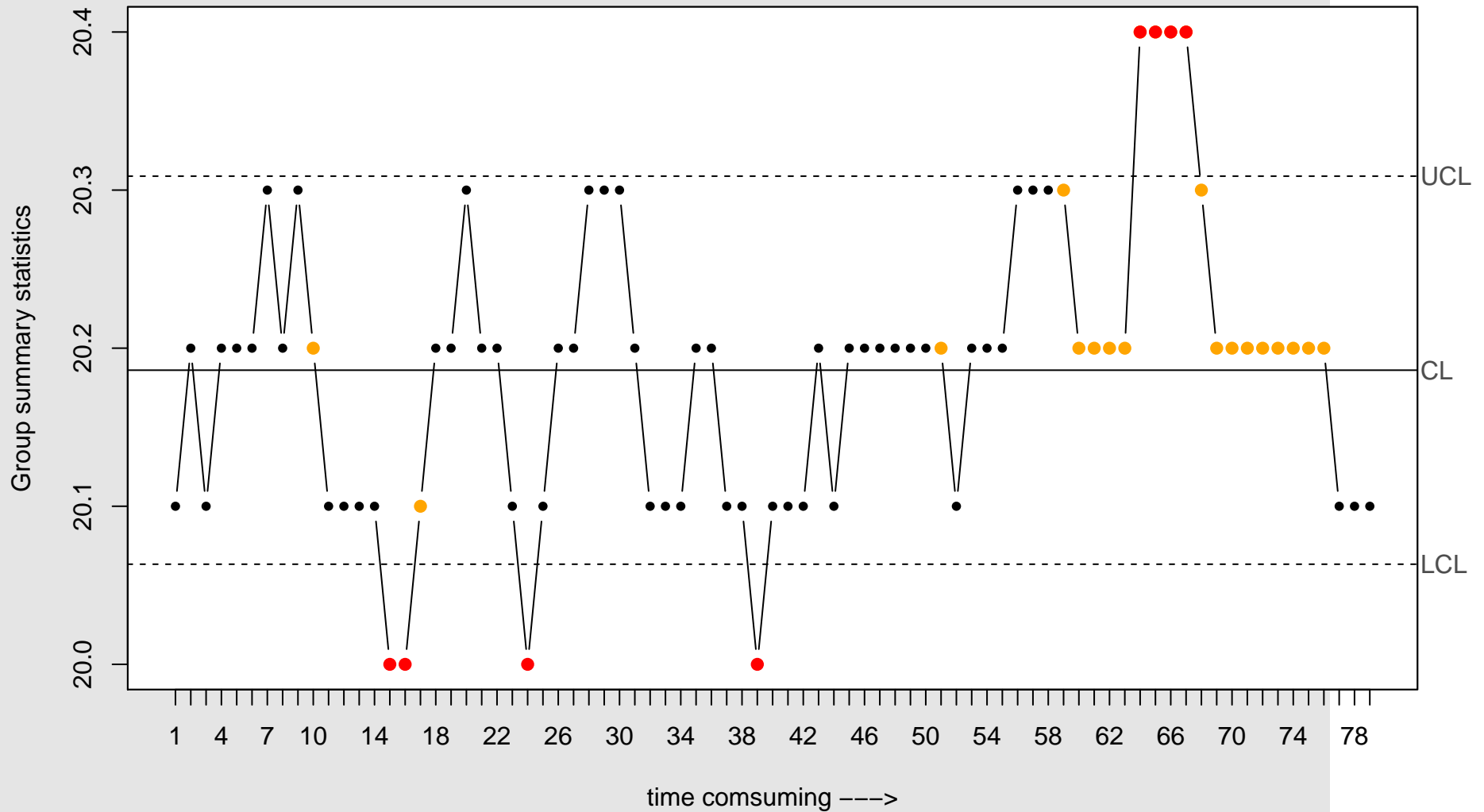


Number of groups = 79
Center = 20.18101
StdDev = 0.04659938

LCL = 20.04121
UCL = 20.32081

Number beyond limits = 6
Number violating runs = 6

111th column point of this product

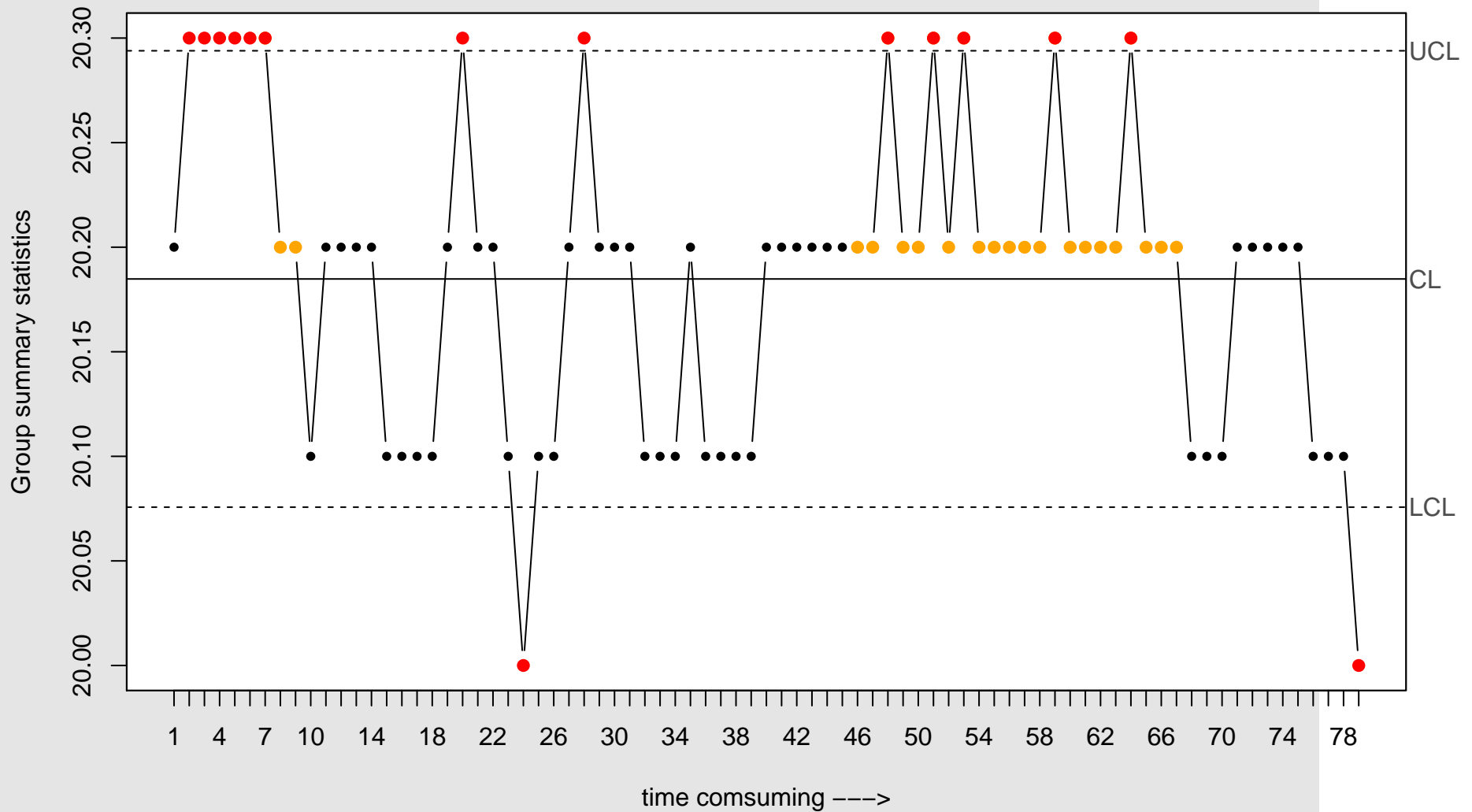


Number of groups = 79
Center = 20.18608
StdDev = 0.04091653

LCL = 20.06333
UCL = 20.30883

Number beyond limits = 8
Number violating runs = 21

112th column point of this product

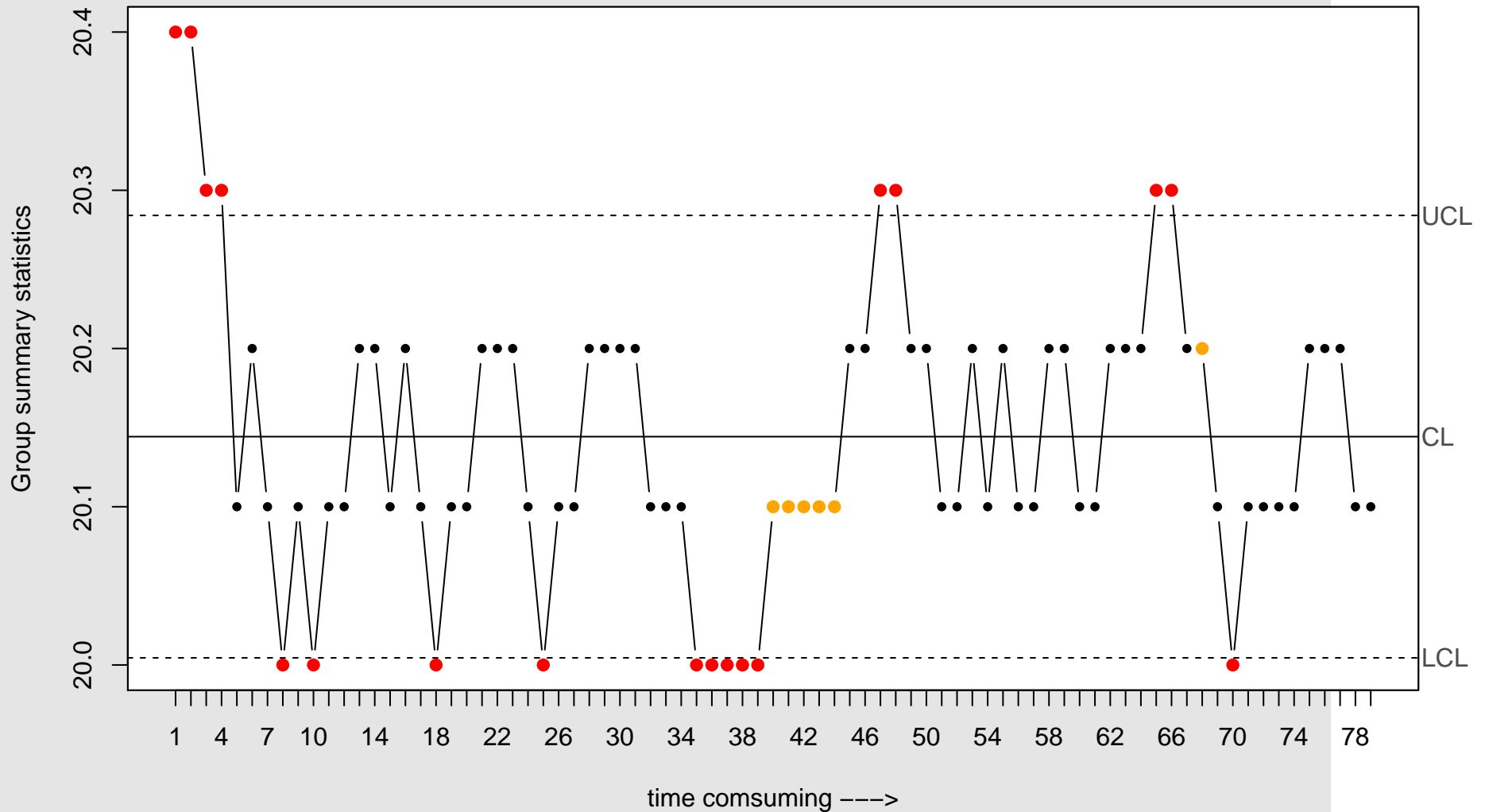


Number of groups = 79
 Center = 20.18481
 StdDev = 0.03637025

LCL = 20.0757
 UCL = 20.29392

Number beyond limits = 15
 Number violating runs = 25

113th column point of this product

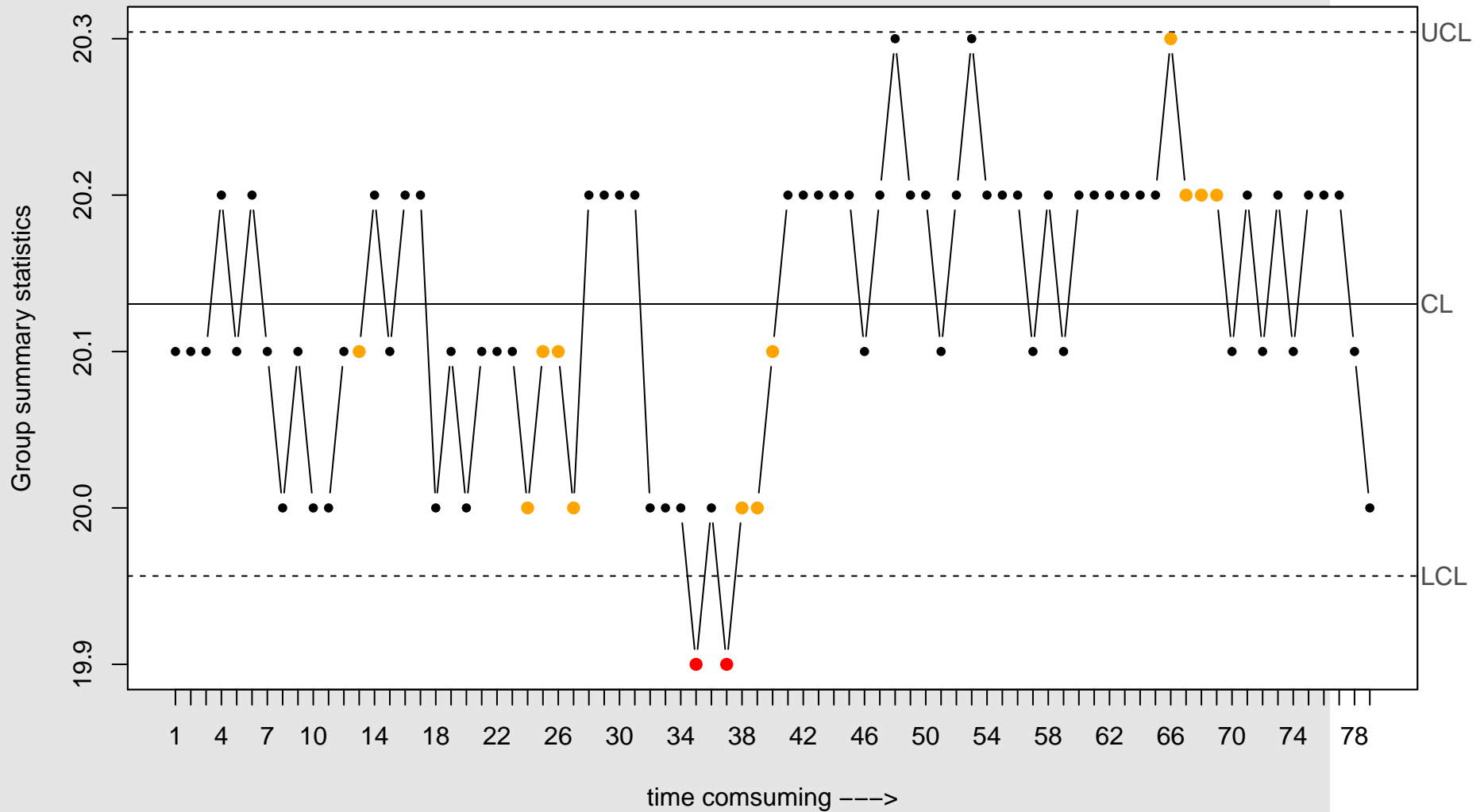


Number of groups = 79
Center = 20.1443
StdDev = 0.04659938

LCL = 20.00451
UCL = 20.2841

Number beyond limits = 18
Number violating runs = 8

114th column point of this product

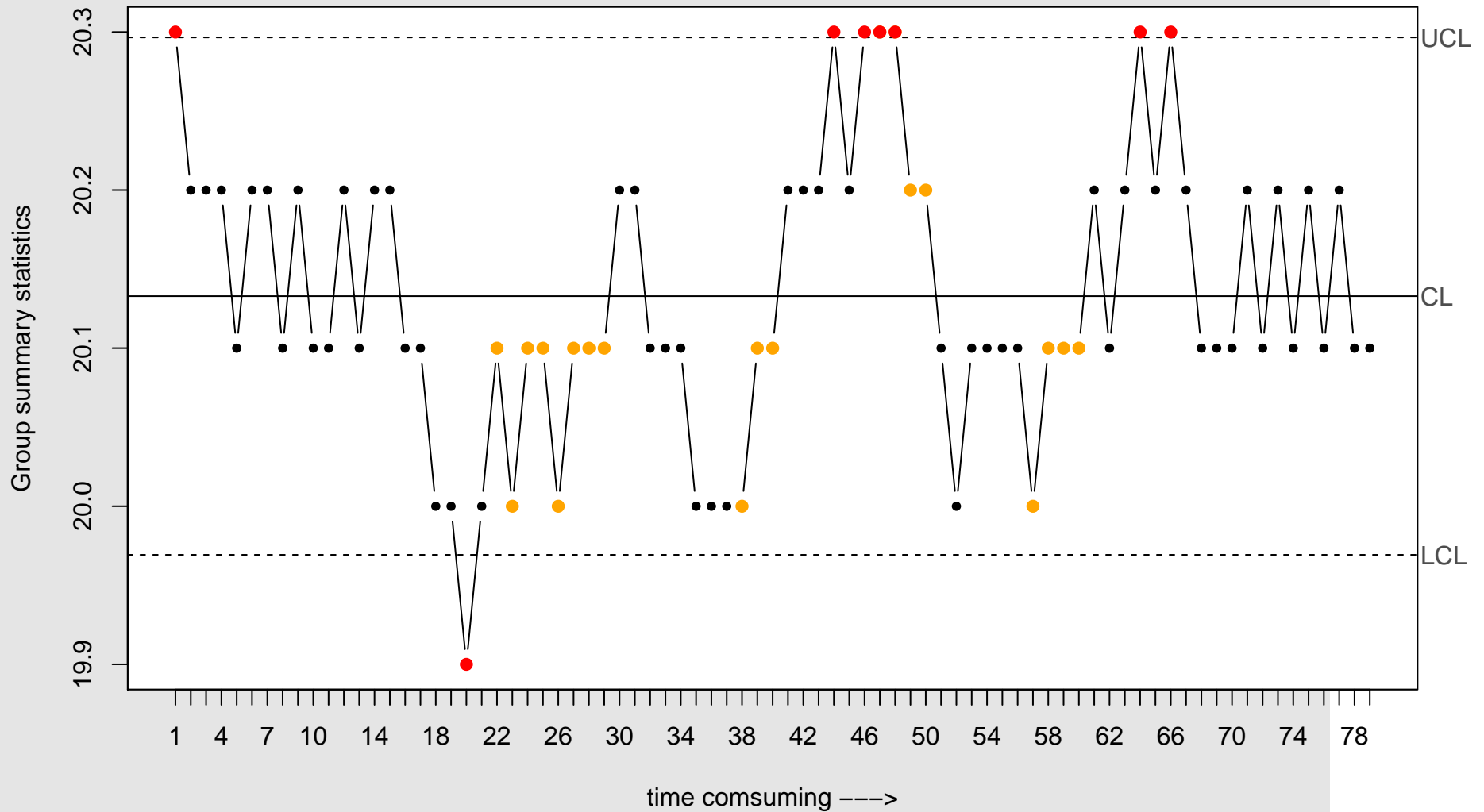


Number of groups = 79
 Center = 20.13038
 StdDev = 0.05796508

LCL = 19.95648
 UCL = 20.30428

Number beyond limits = 2
 Number violating runs = 12

115th column point of this product

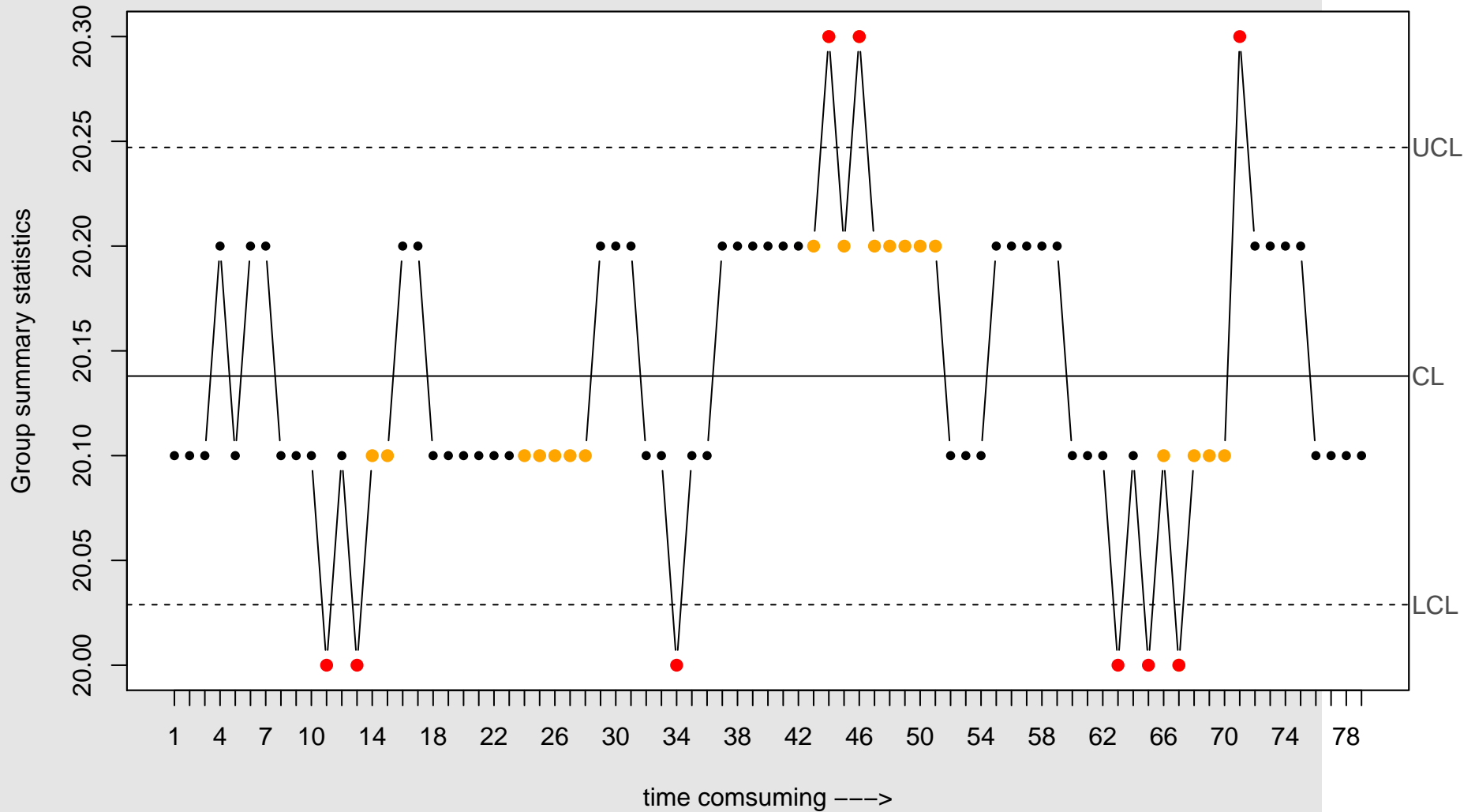


Number of groups = 79
 Center = 20.13291
 StdDev = 0.05455537

LCL = 19.96925
 UCL = 20.29658

Number beyond limits = 8
 Number violating runs = 19

116th column point of this product

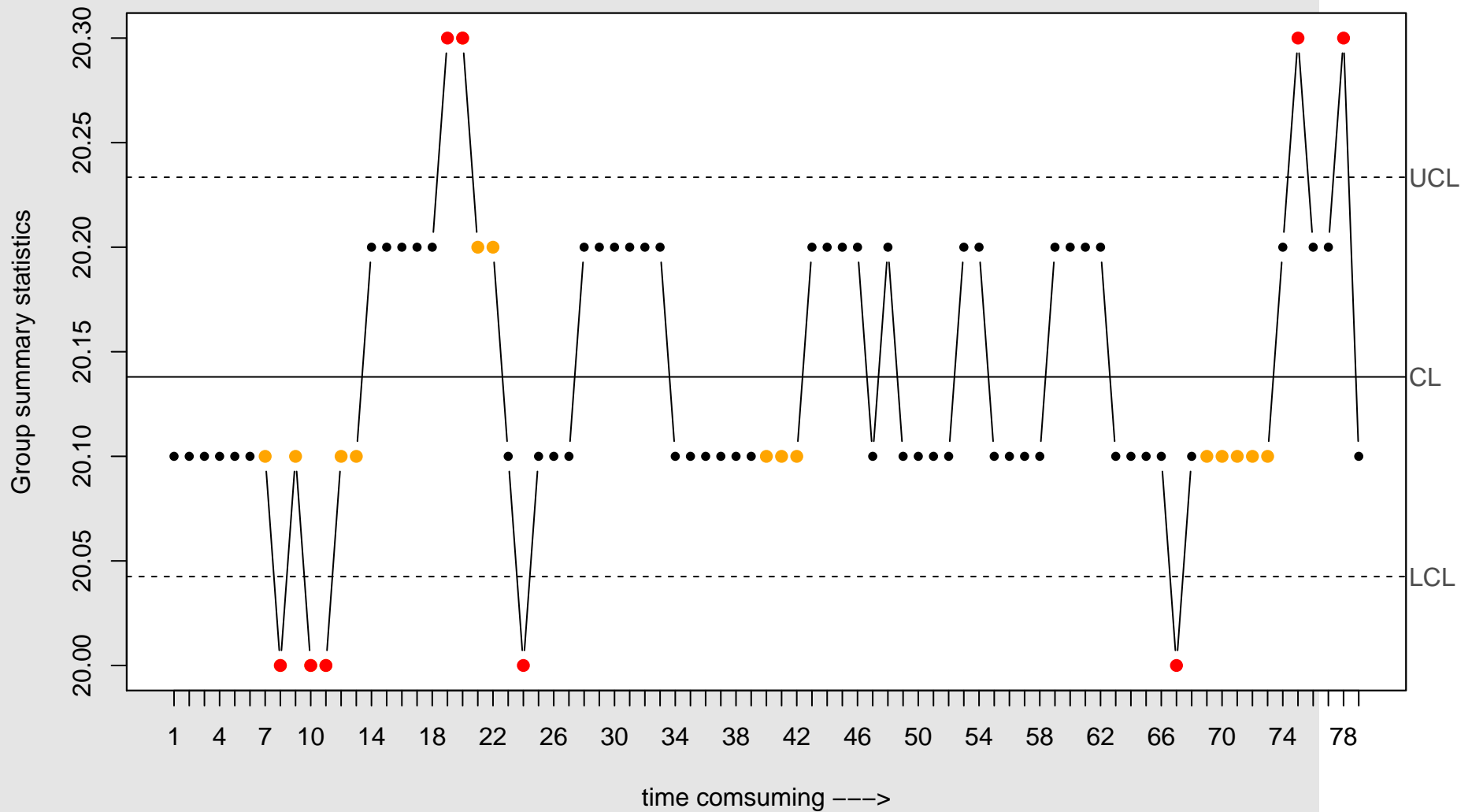


Number of groups = 79
 Center = 20.13797
 StdDev = 0.03637025

LCL = 20.02886
 UCL = 20.24709

Number beyond limits = 9
 Number violating runs = 21

117th column point of this product

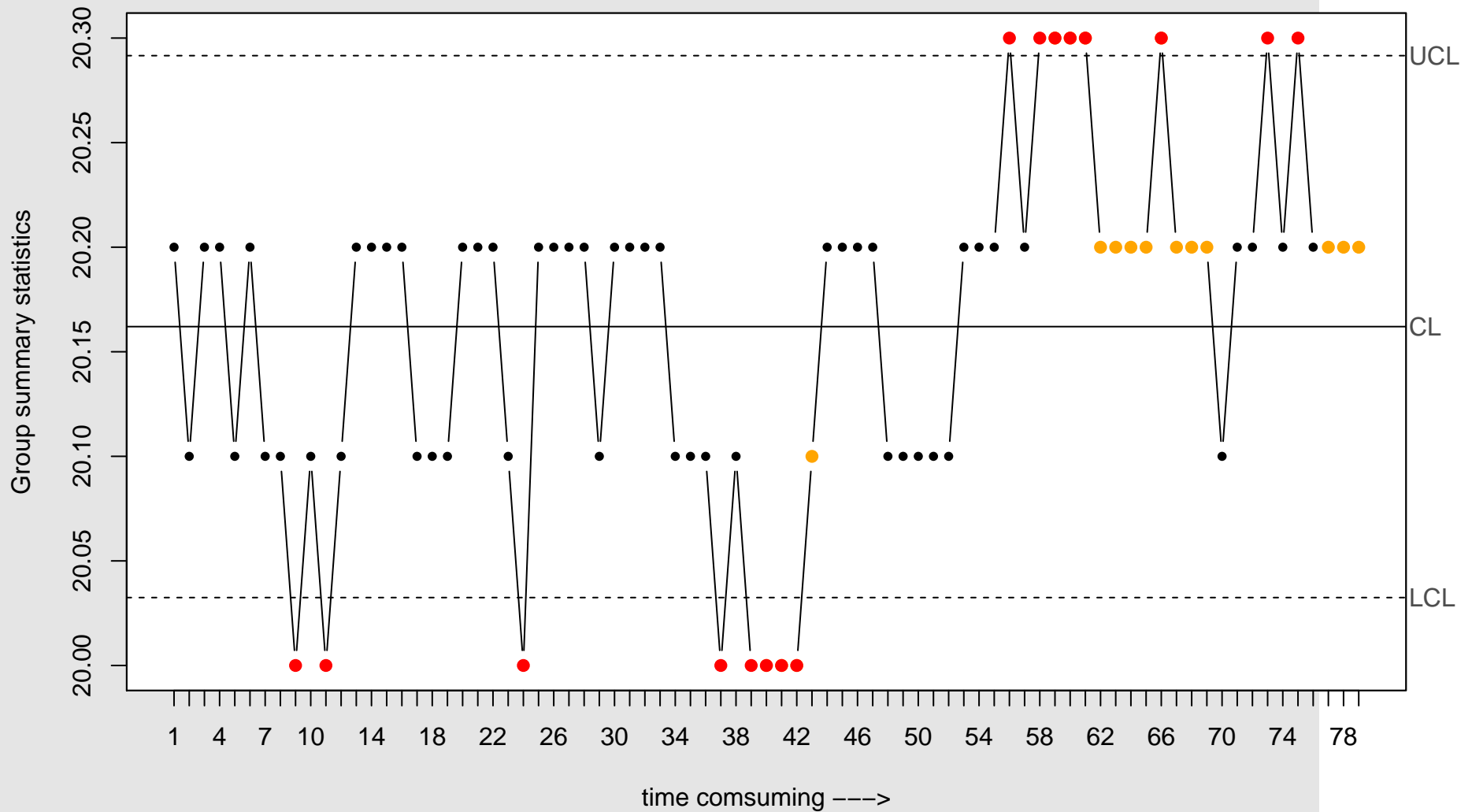


Number of groups = 79
Center = 20.13797
StdDev = 0.03182397

LCL = 20.0425
UCL = 20.23345

Number beyond limits = 9
Number violating runs = 18

118th column point of this product

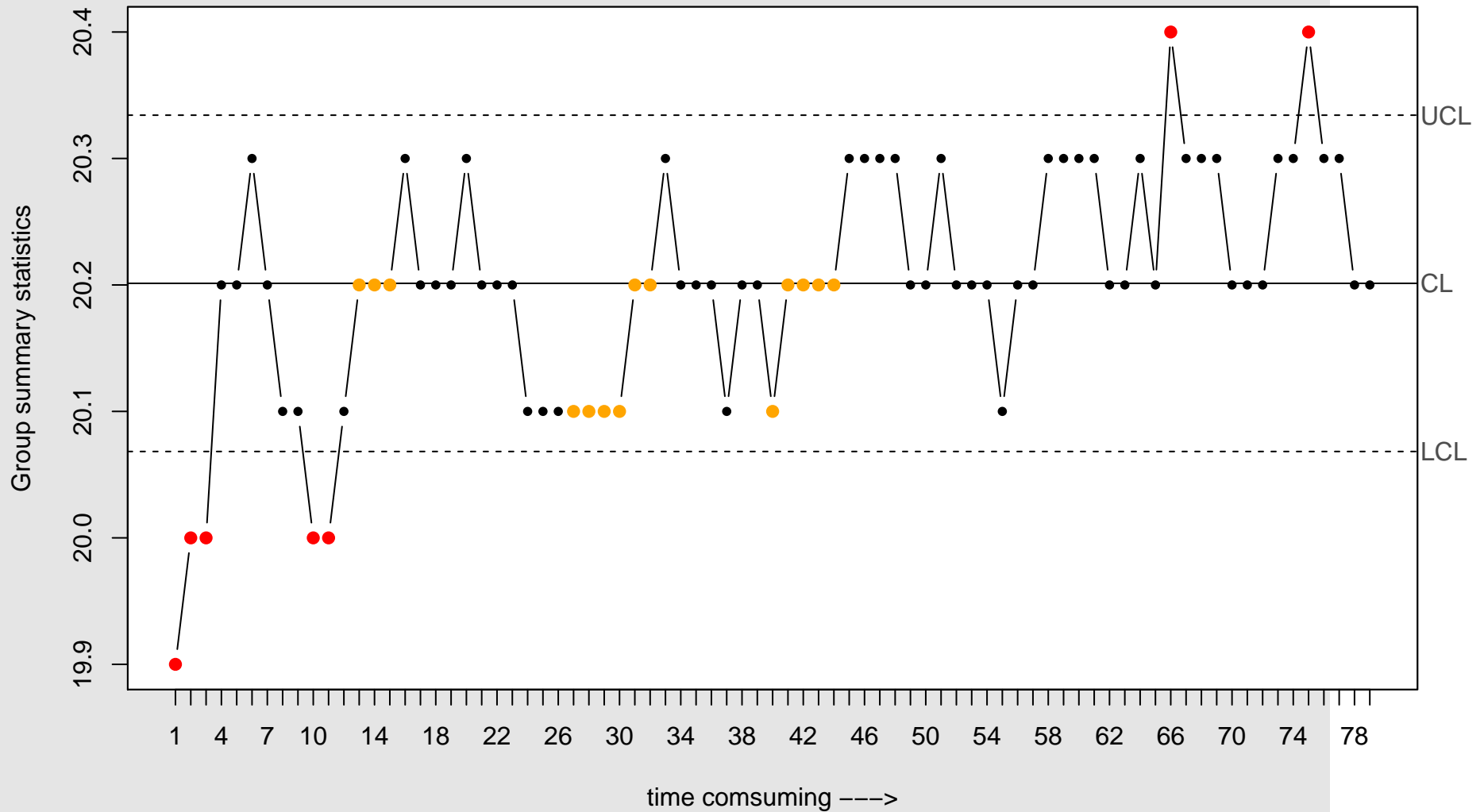


Number of groups = 79
 Center = 20.16203
 StdDev = 0.04318967

LCL = 20.03246
 UCL = 20.29159

Number beyond limits = 16
 Number violating runs = 18

119th column point of this product

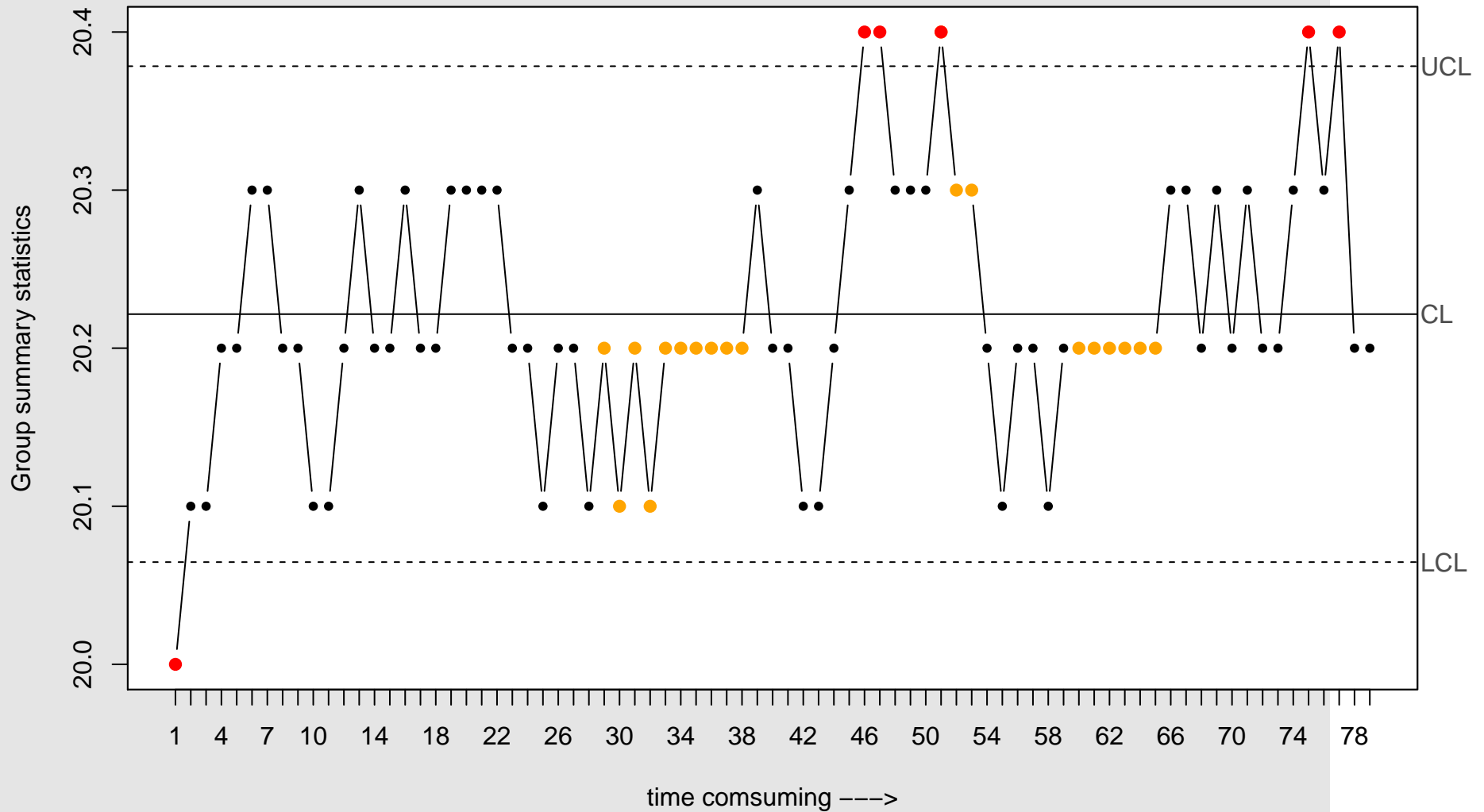


Number of groups = 79
 Center = 20.20127
 StdDev = 0.04432624

LCL = 20.06829
 UCL = 20.33424

Number beyond limits = 7
 Number violating runs = 14

120th column point of this product

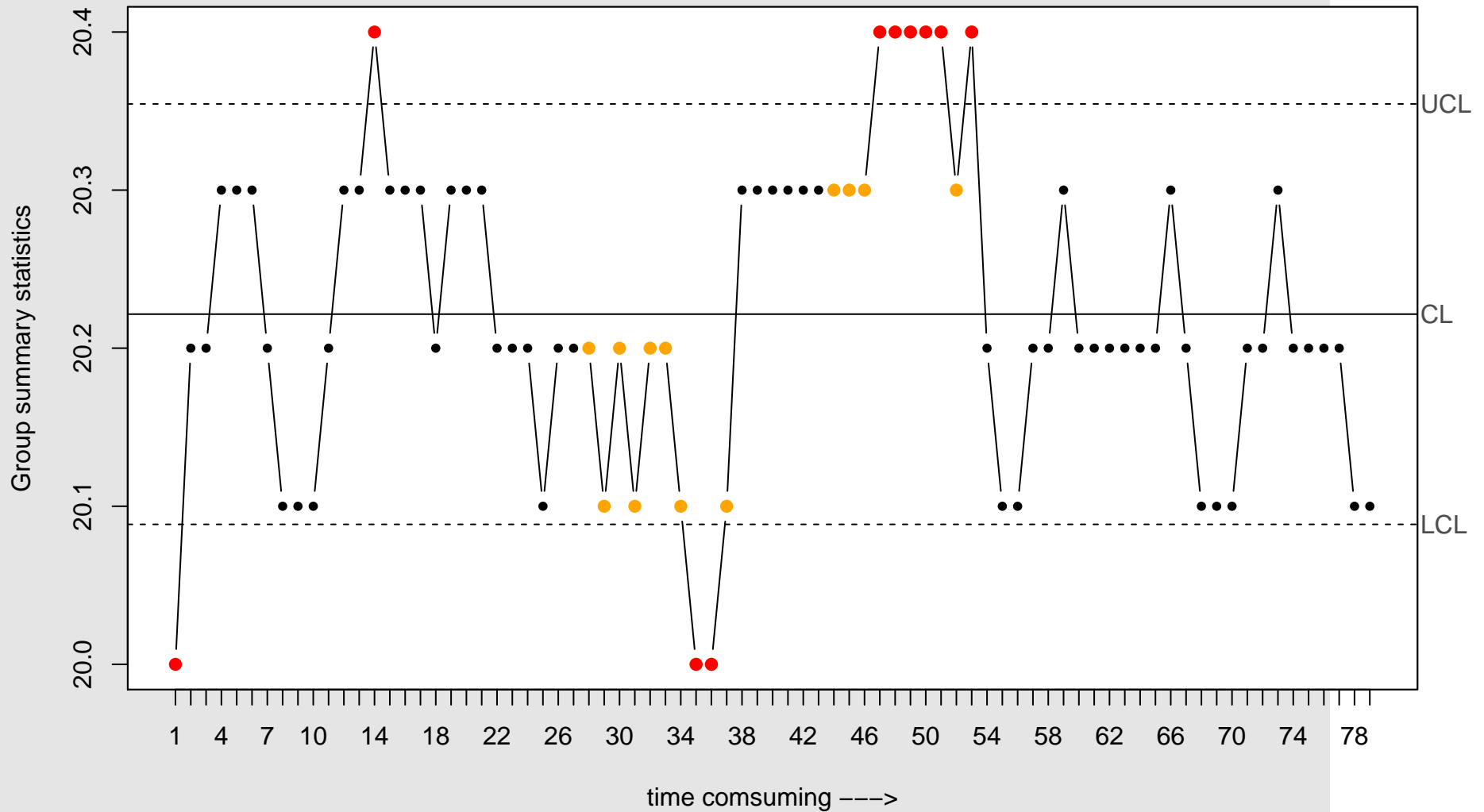


Number of groups = 79
 Center = 20.22152
 StdDev = 0.05228223

LCL = 20.06467
 UCL = 20.37837

Number beyond limits = 6
 Number violating runs = 19

121th column point of this product

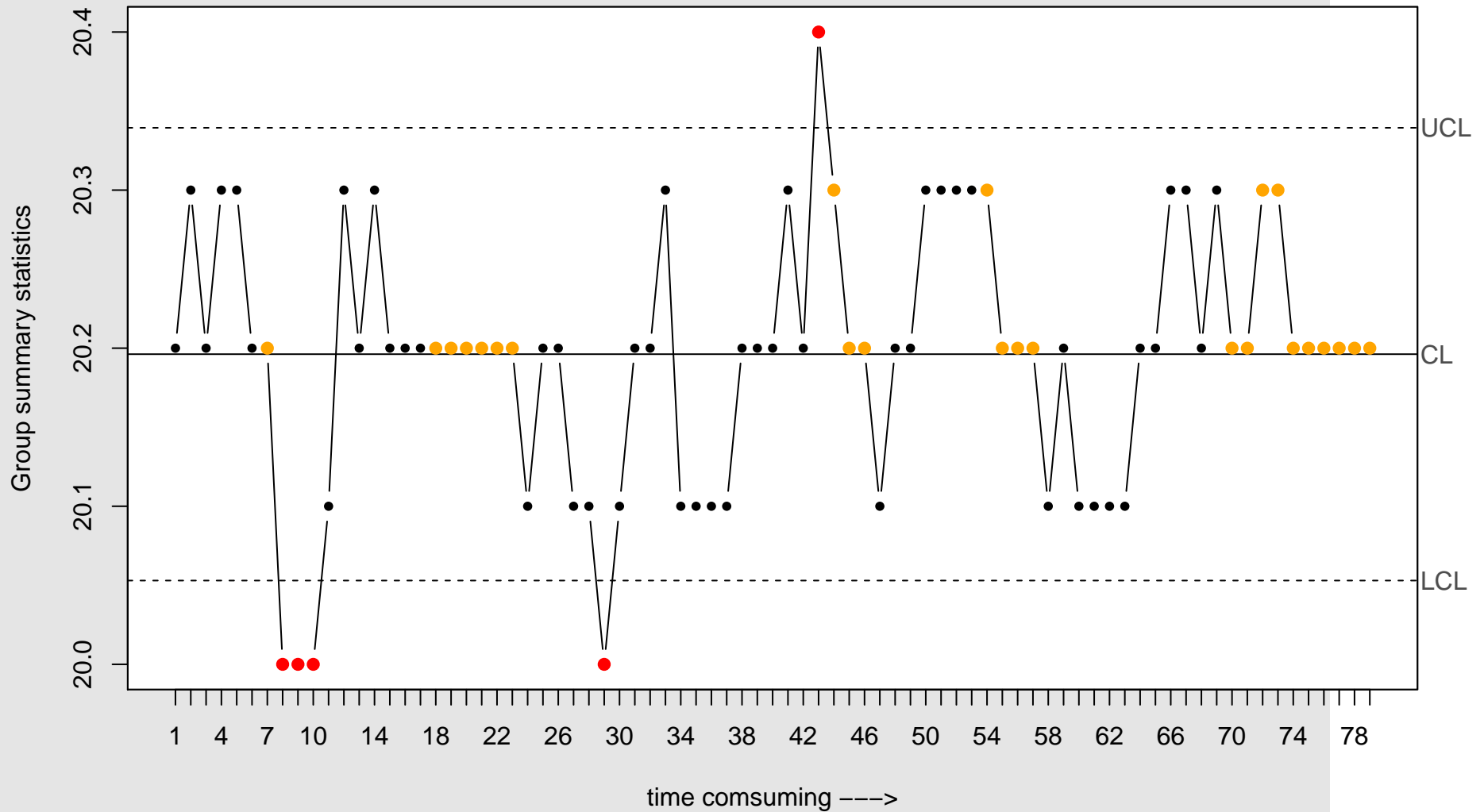


Number of groups = 79
 Center = 20.22152
 StdDev = 0.04432624

LCL = 20.08854
 UCL = 20.3545

Number beyond limits = 10
 Number violating runs = 20

122th column point of this product

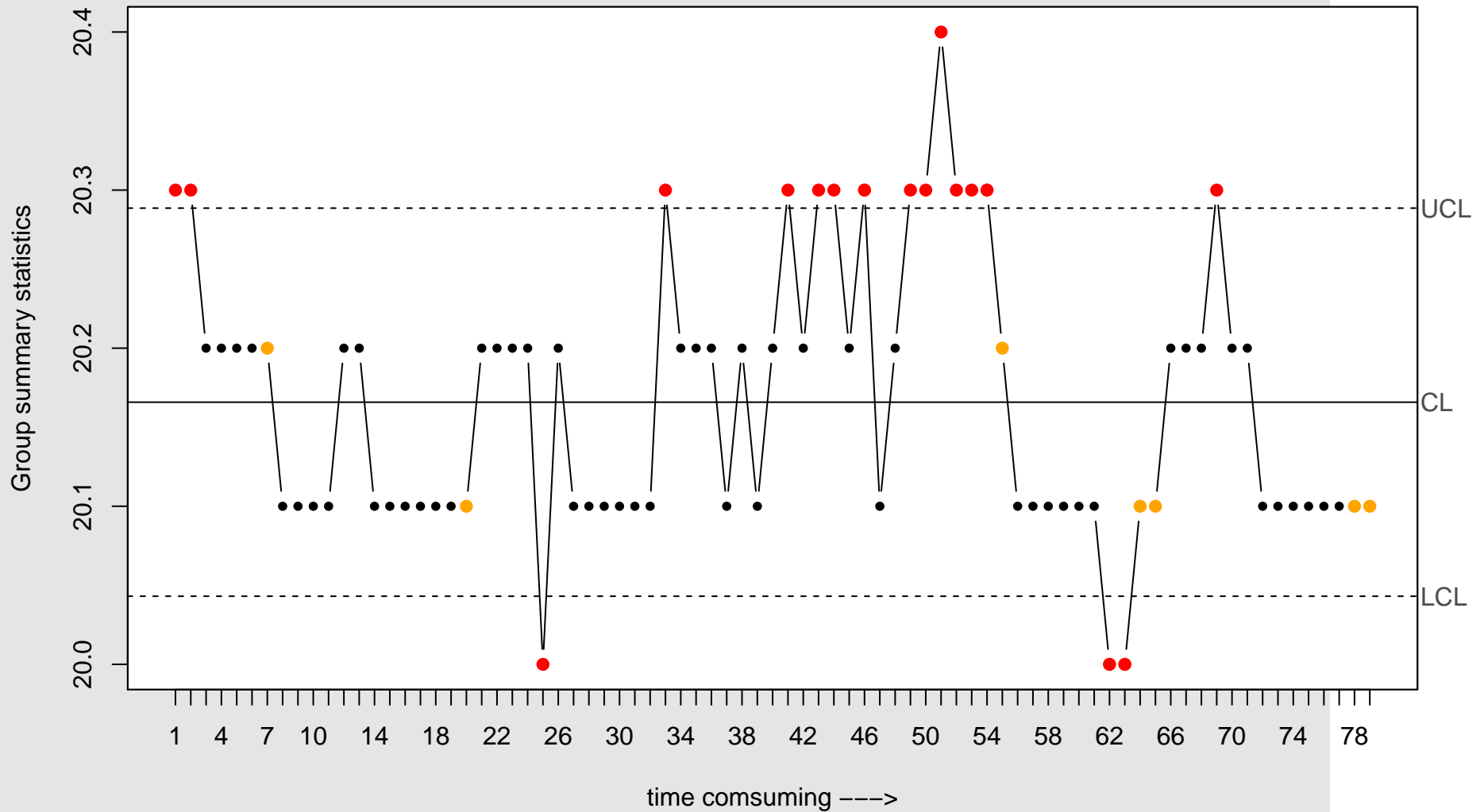


Number of groups = 79
 Center = 20.1962
 StdDev = 0.04773595

LCL = 20.05299
 UCL = 20.33941

Number beyond limits = 5
 Number violating runs = 24

123th column point of this product

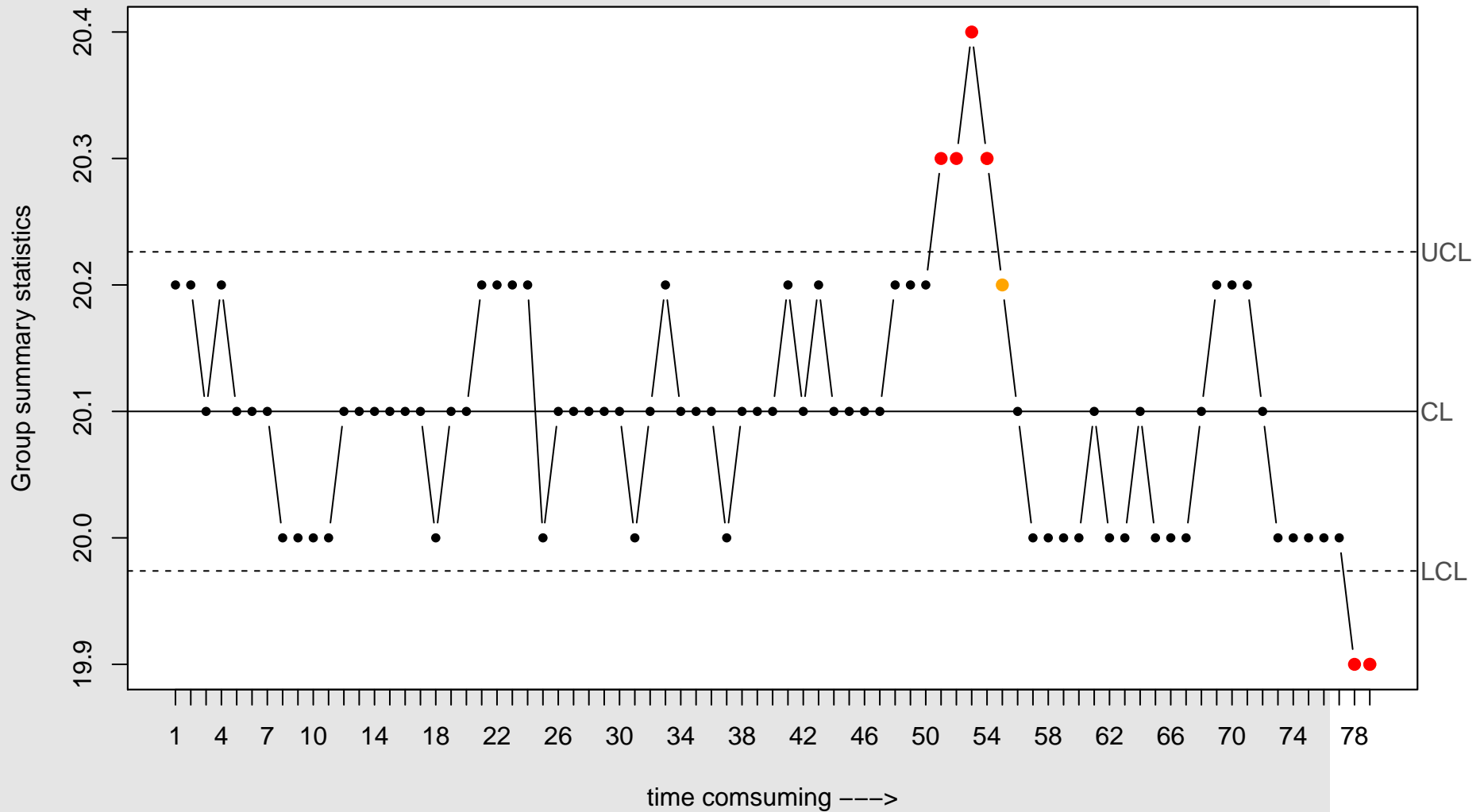


Number of groups = 79
Center = 20.16582
StdDev = 0.04091653

LCL = 20.04307
UCL = 20.28857

Number beyond limits = 17
Number violating runs = 11

124th column point of this product



Number of groups = 79

Center = 20.1

StdDev = 0.0420531

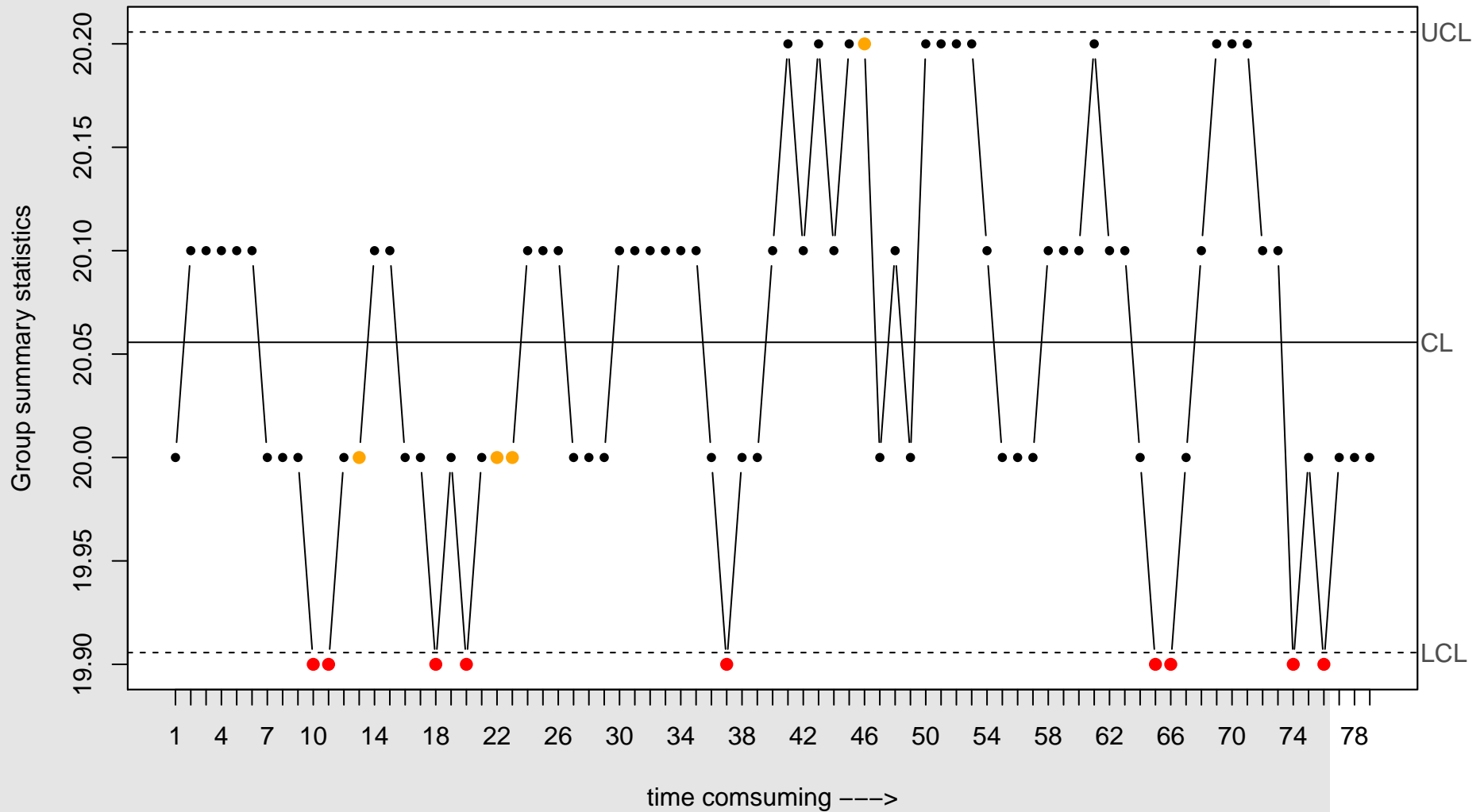
LCL = 19.97384

UCL = 20.22616

Number beyond limits = 6

Number violating runs = 3

125th column point of this product

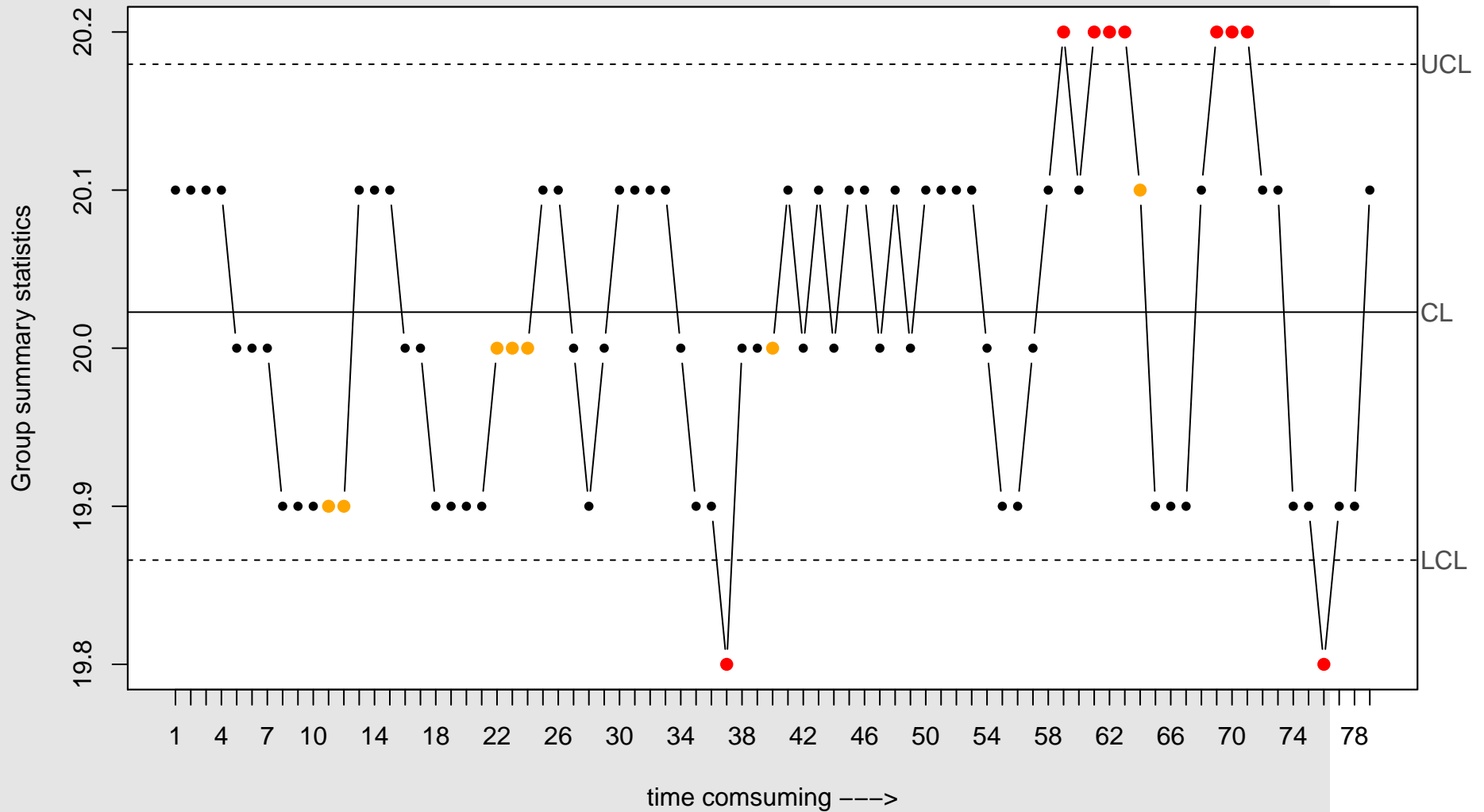


Number of groups = 79
 Center = 20.0557
 StdDev = 0.05000909

LCL = 19.90567
 UCL = 20.20572

Number beyond limits = 9
 Number violating runs = 4

126th column point of this product

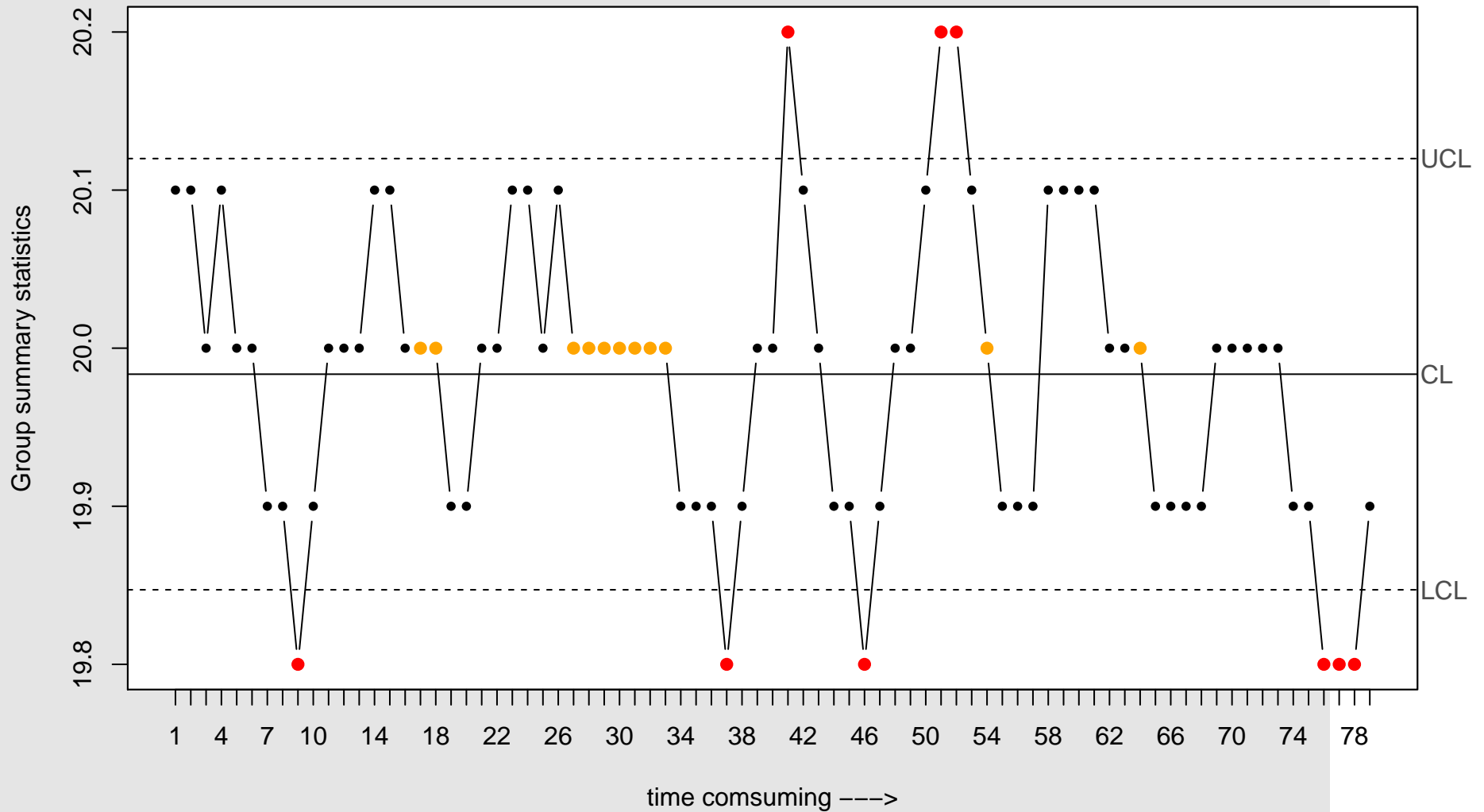


Number of groups = 79
 Center = 20.02278
 StdDev = 0.05228223

LCL = 19.86594
 UCL = 20.17963

Number beyond limits = 9
 Number violating runs = 7

127th column point of this product

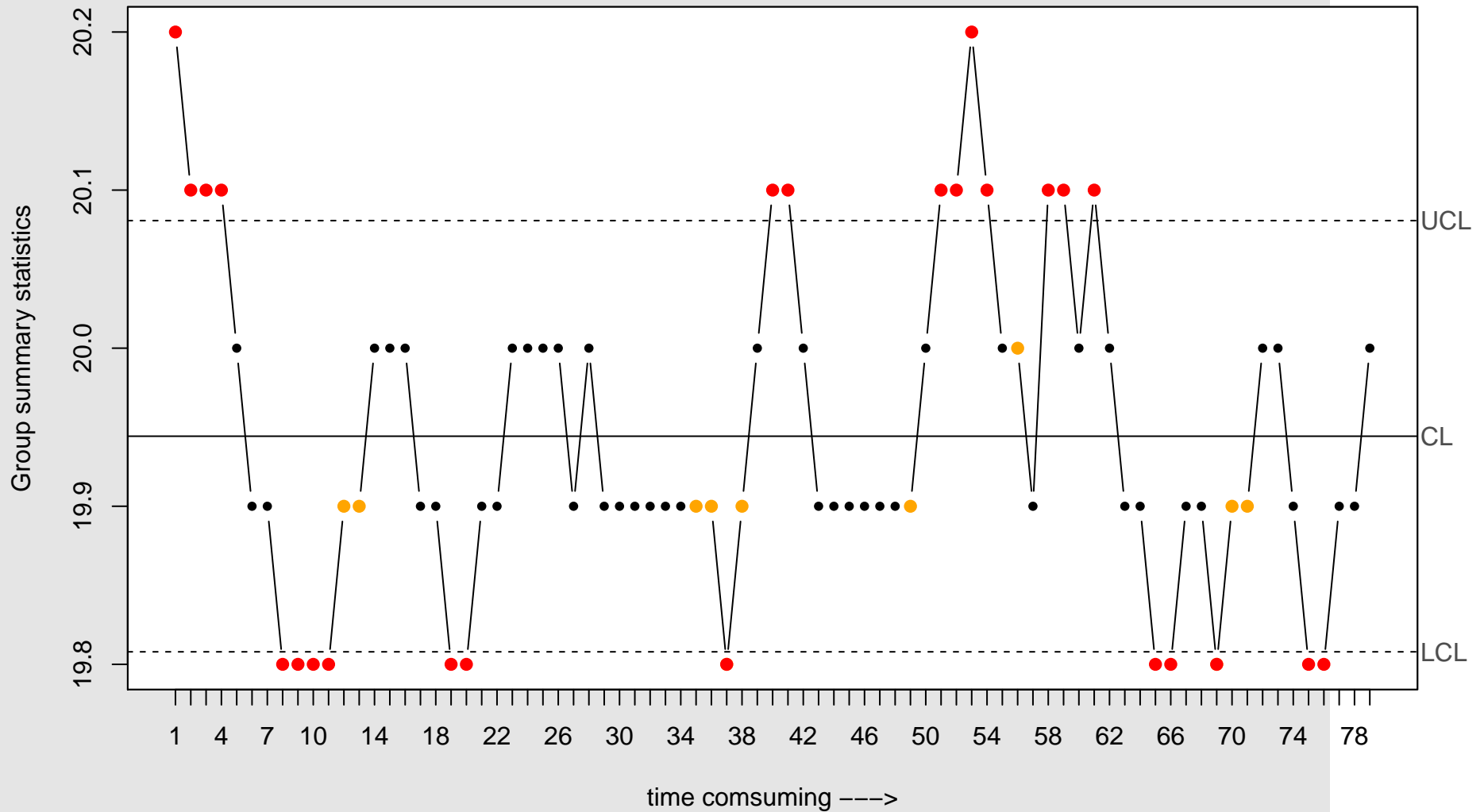


Number of groups = 79
 Center = 19.98354
 StdDev = 0.04546281

LCL = 19.84716
 UCL = 20.11993

Number beyond limits = 9
 Number violating runs = 11

128th column point of this product

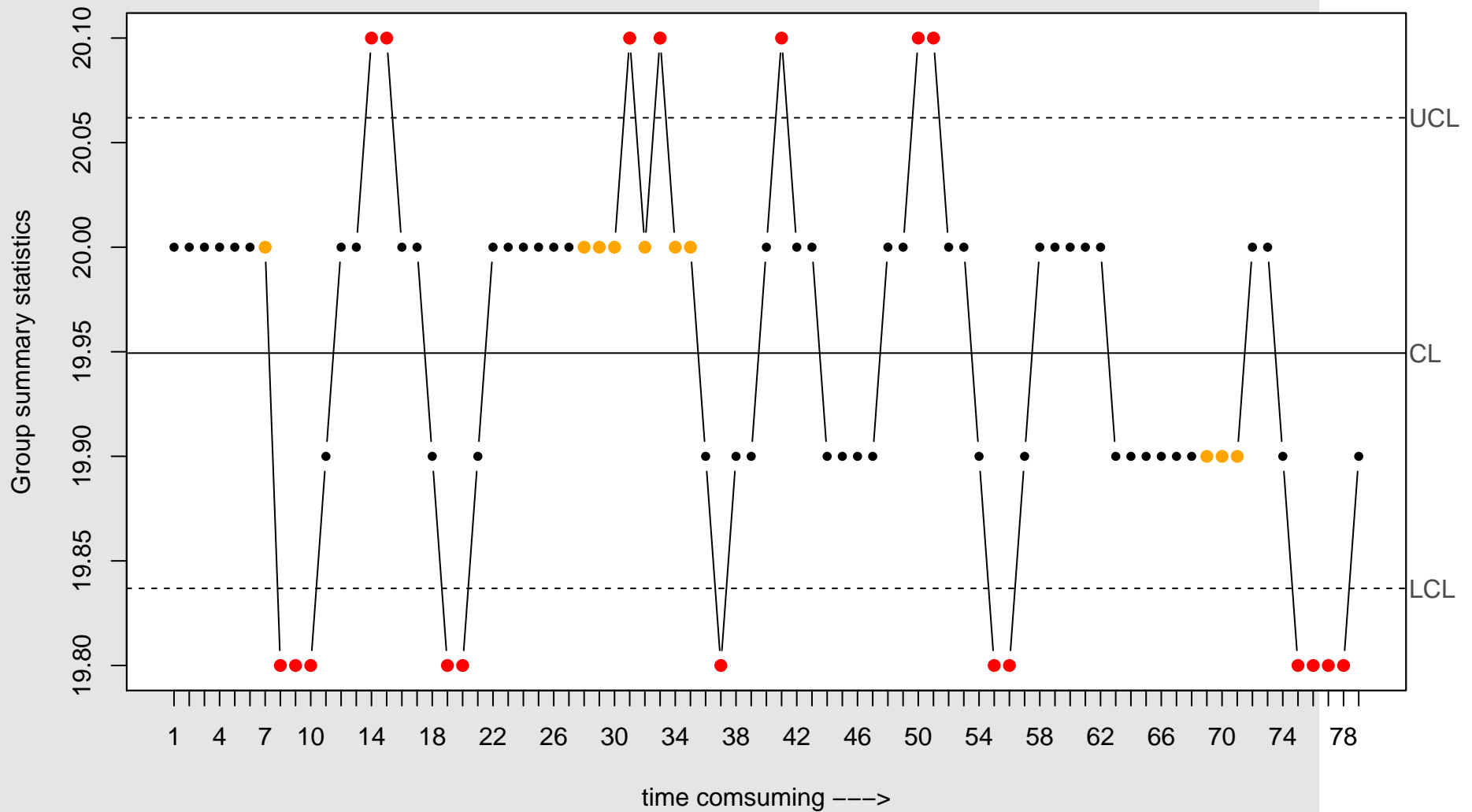


Number of groups = 79
Center = 19.9443
StdDev = 0.04546281

LCL = 19.80792
UCL = 20.08069

Number beyond limits = 25
Number violating runs = 11

129th column point of this product

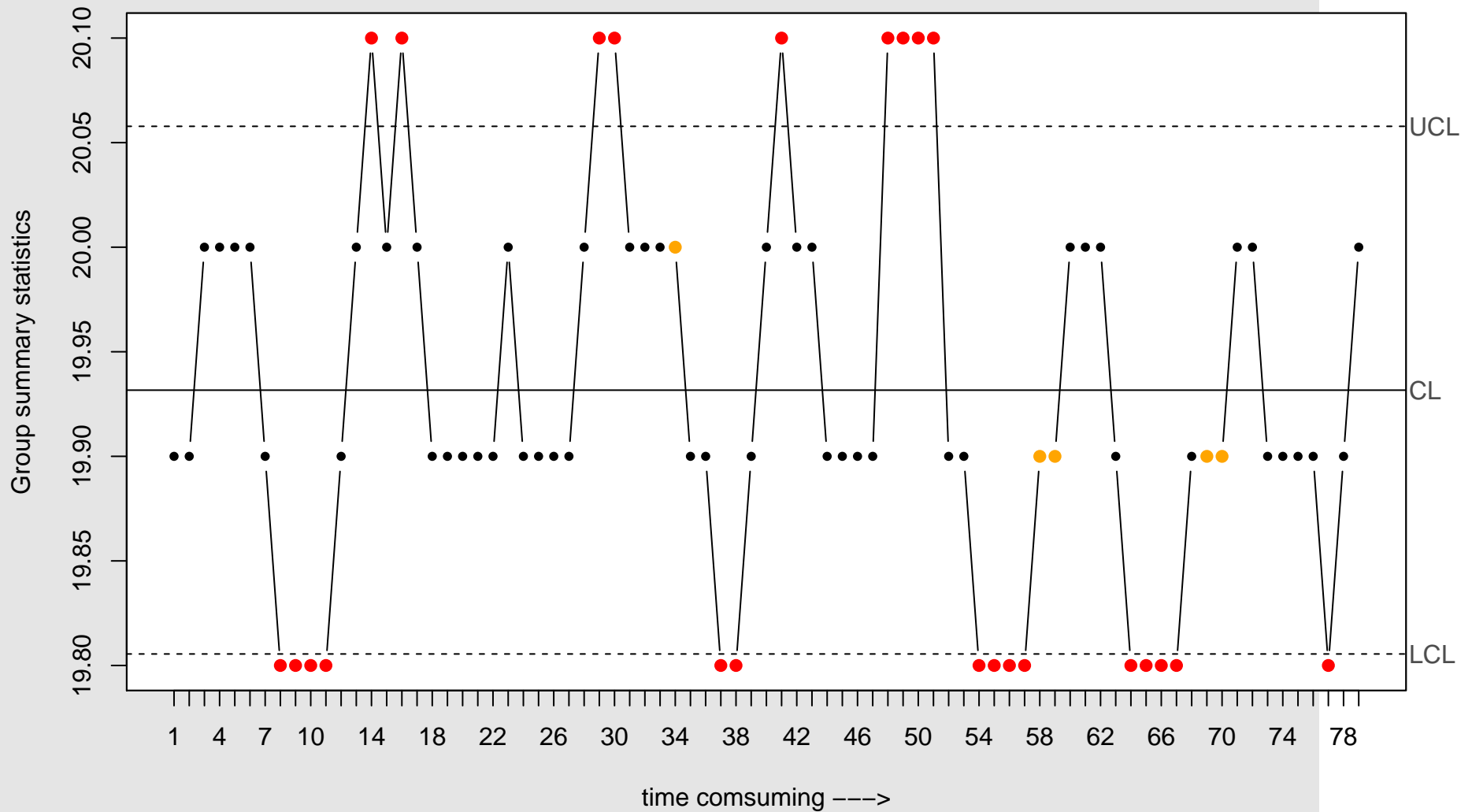


Number of groups = 79
 Center = 19.94937
 StdDev = 0.03750682

LCL = 19.83685
 UCL = 20.06189

Number beyond limits = 19
 Number violating runs = 12

130th column point of this product

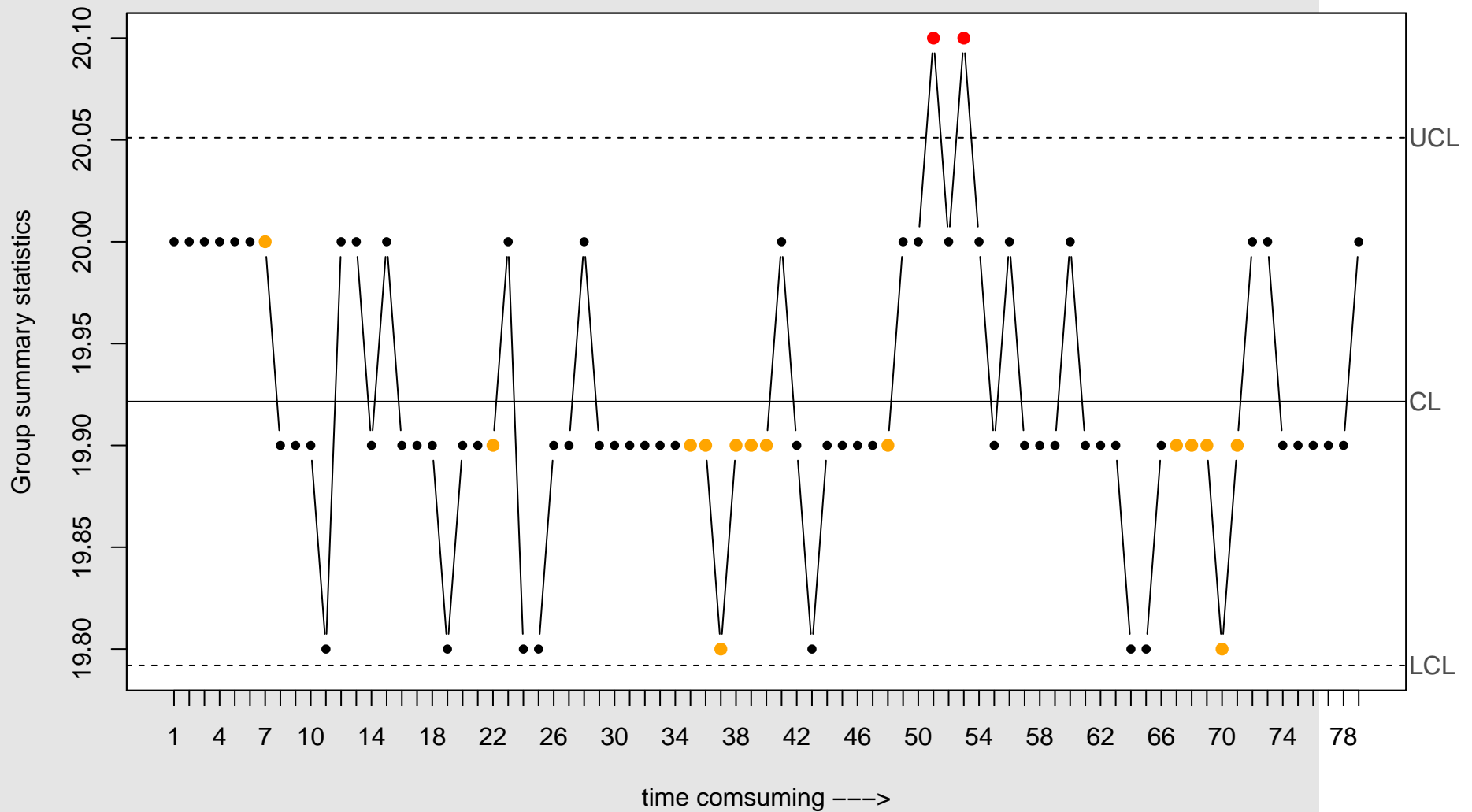


Number of groups = 79
Center = 19.93165
StdDev = 0.0420531

LCL = 19.80549
UCL = 20.0578

Number beyond limits = 24
Number violating runs = 5

131th column point of this product

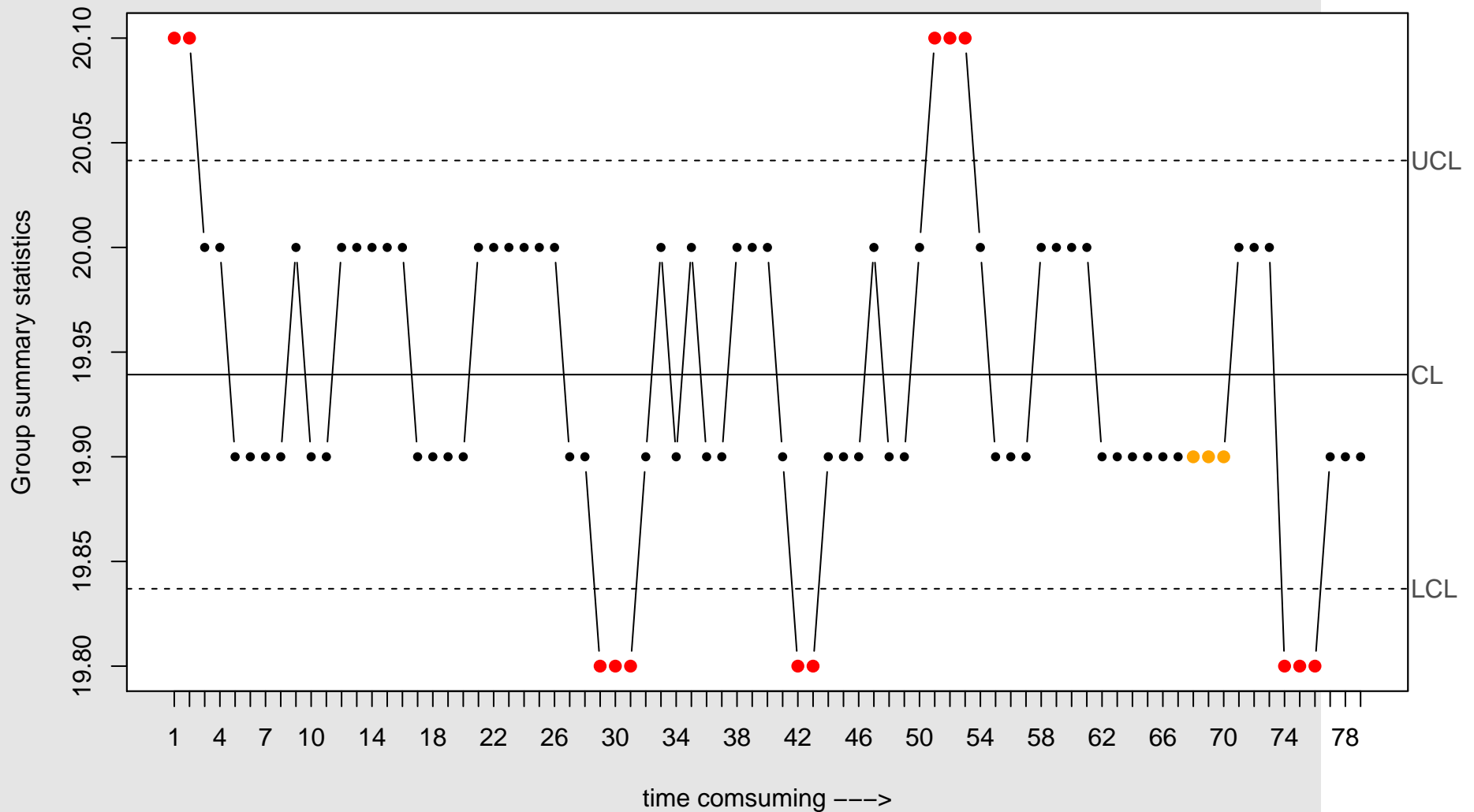


Number of groups = 79
Center = 19.92152
StdDev = 0.04318967

LCL = 19.79195
UCL = 20.05109

Number beyond limits = 2
Number violating runs = 14

132th column point of this product

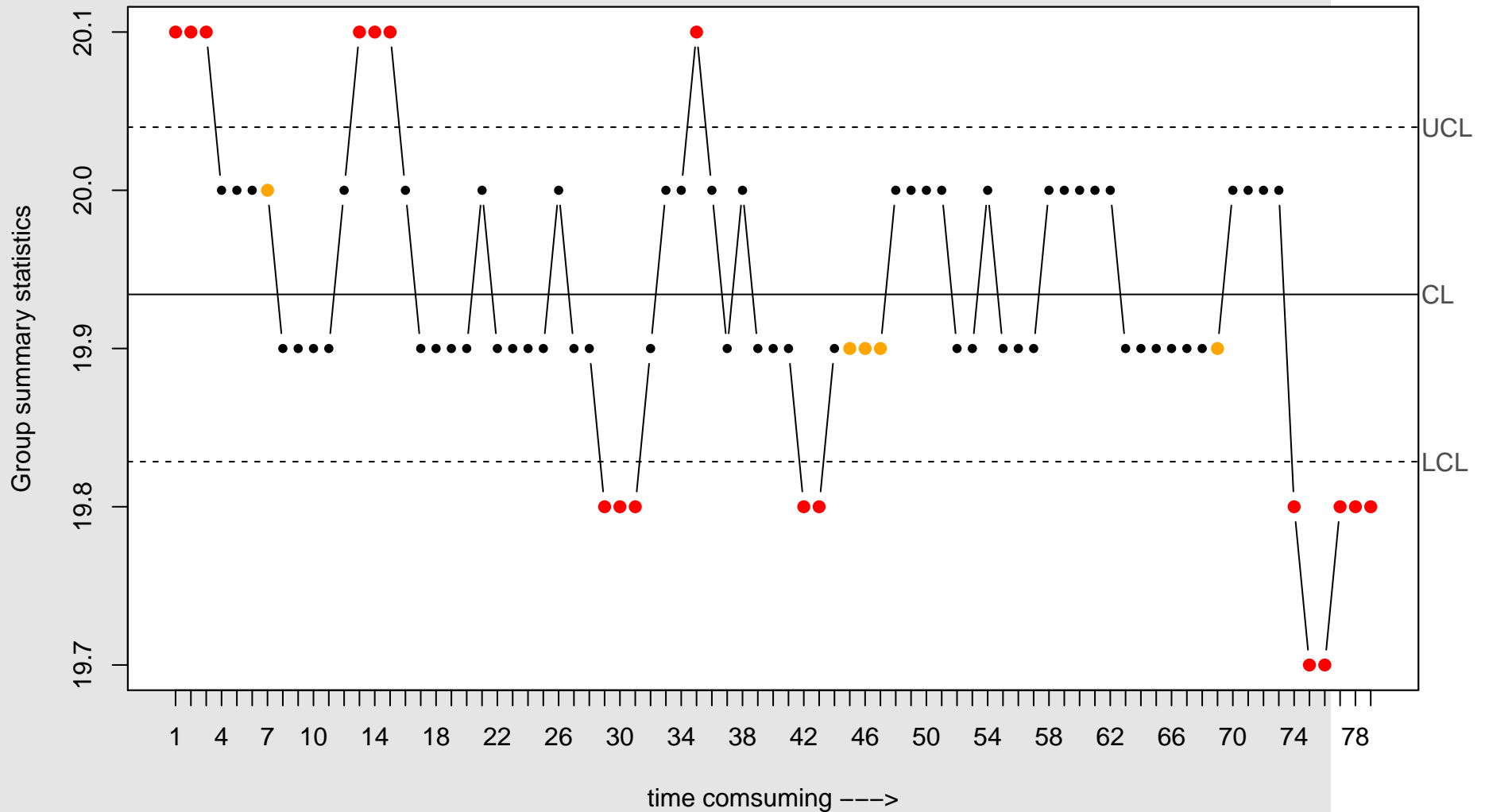


Number of groups = 79
Center = 19.93924
StdDev = 0.03409711

LCL = 19.83695
UCL = 20.04153

Number beyond limits = 13
Number violating runs = 3

133th column point of this product

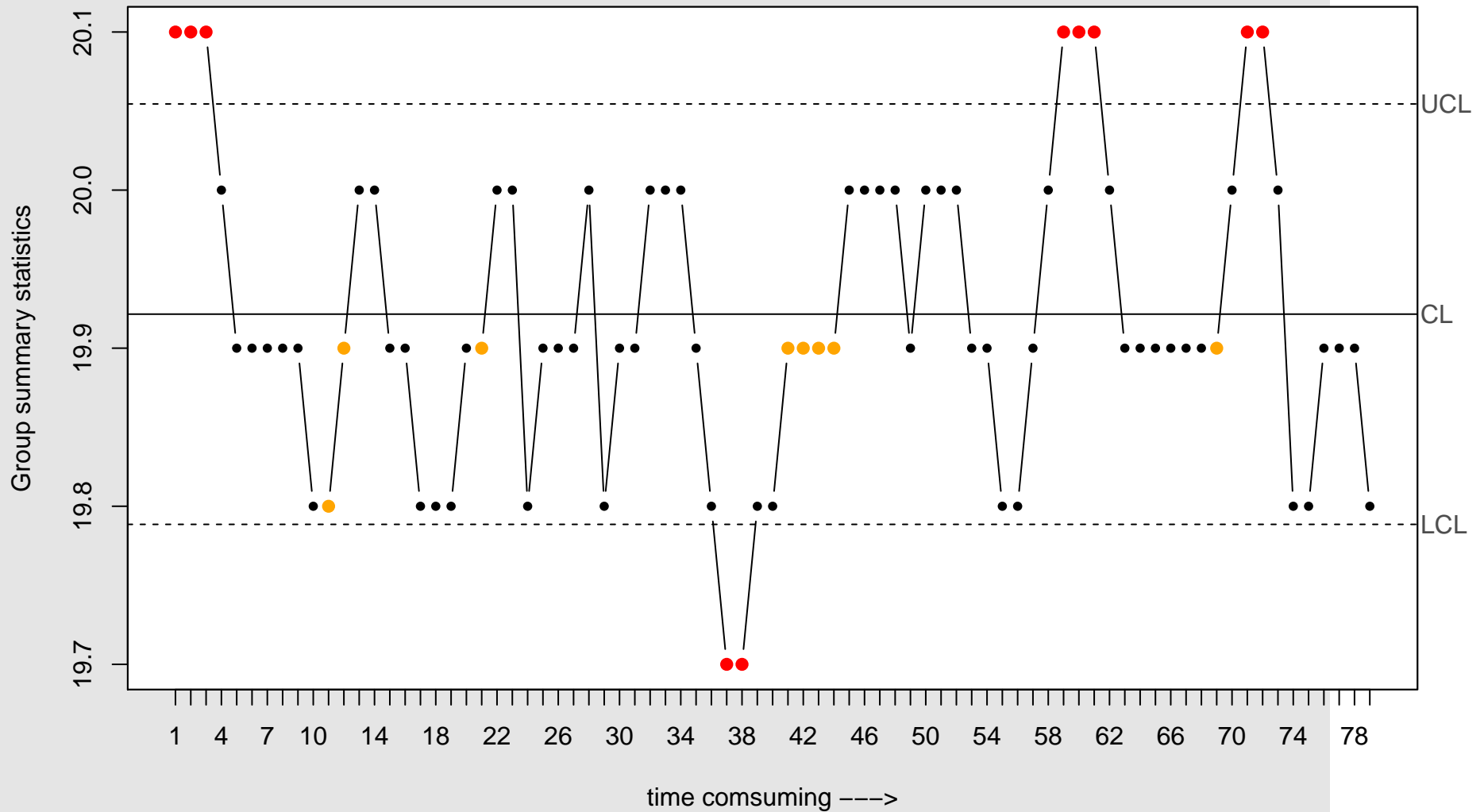


Number of groups = 79
 Center = 19.93418
 StdDev = 0.03523368

LCL = 19.82848
 UCL = 20.03988

Number beyond limits = 18
 Number violating runs = 5

134th column point of this product

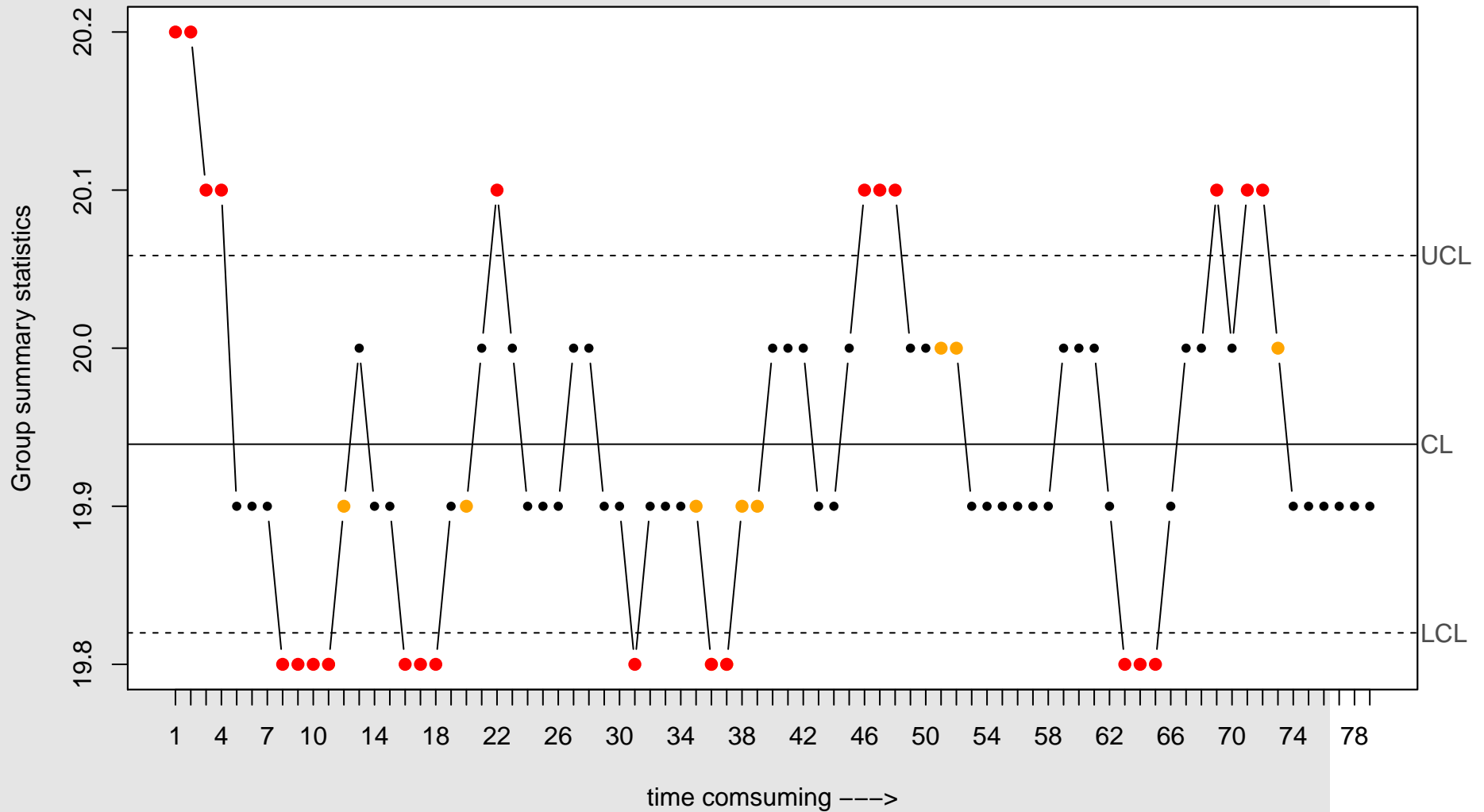


Number of groups = 79
Center = 19.92152
StdDev = 0.04432624

LCL = 19.78854
UCL = 20.0545

Number beyond limits = 10
Number violating runs = 8

135th column point of this product



Number of groups = 79

Center = 19.93924

StdDev = 0.03977996

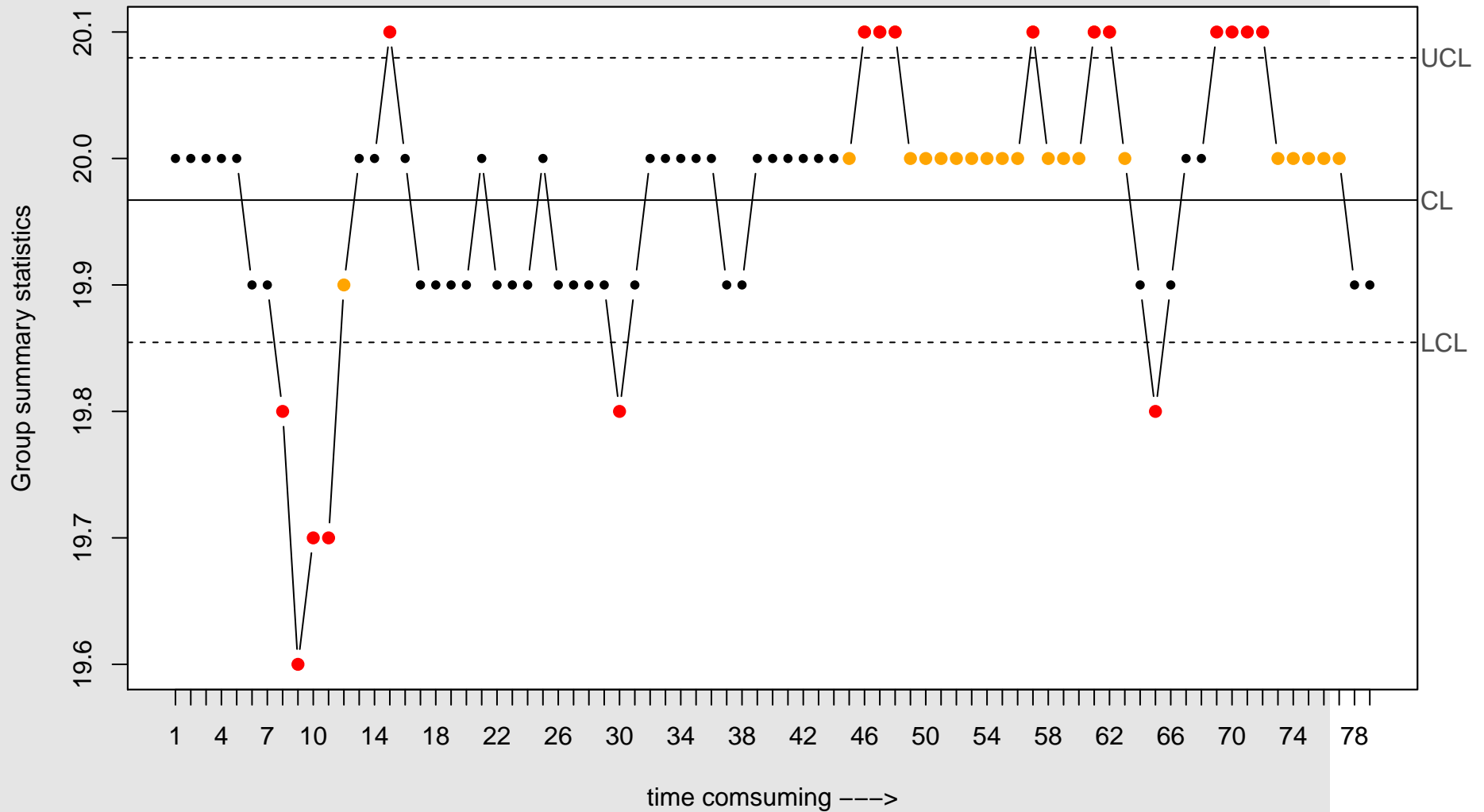
LCL = 19.8199

UCL = 20.05858

Number beyond limits = 24

Number violating runs = 11

136th column point of this product

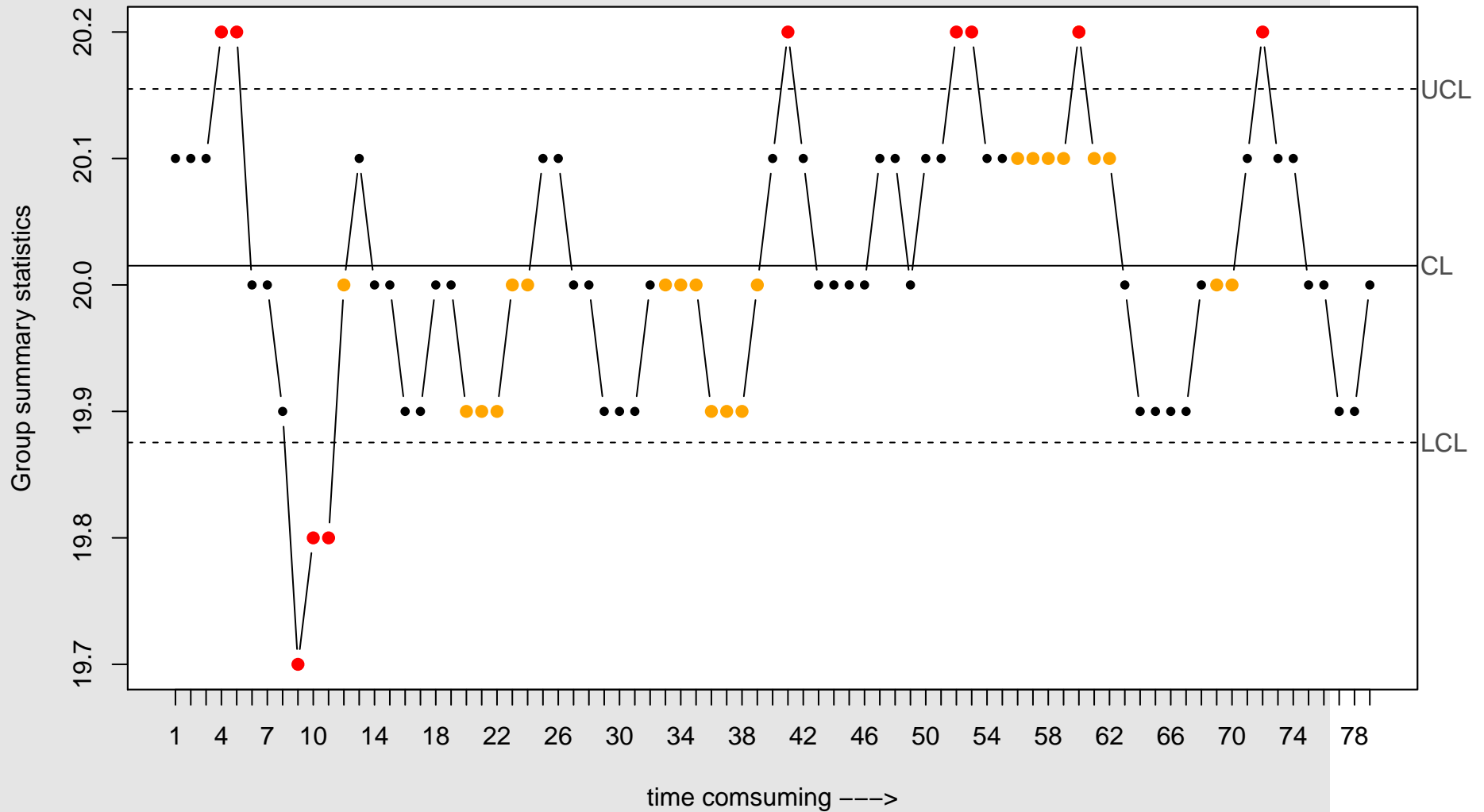


Number of groups = 79
 Center = 19.96709
 StdDev = 0.03750682

LCL = 19.85457
 UCL = 20.07961

Number beyond limits = 17
 Number violating runs = 25

137th column point of this product

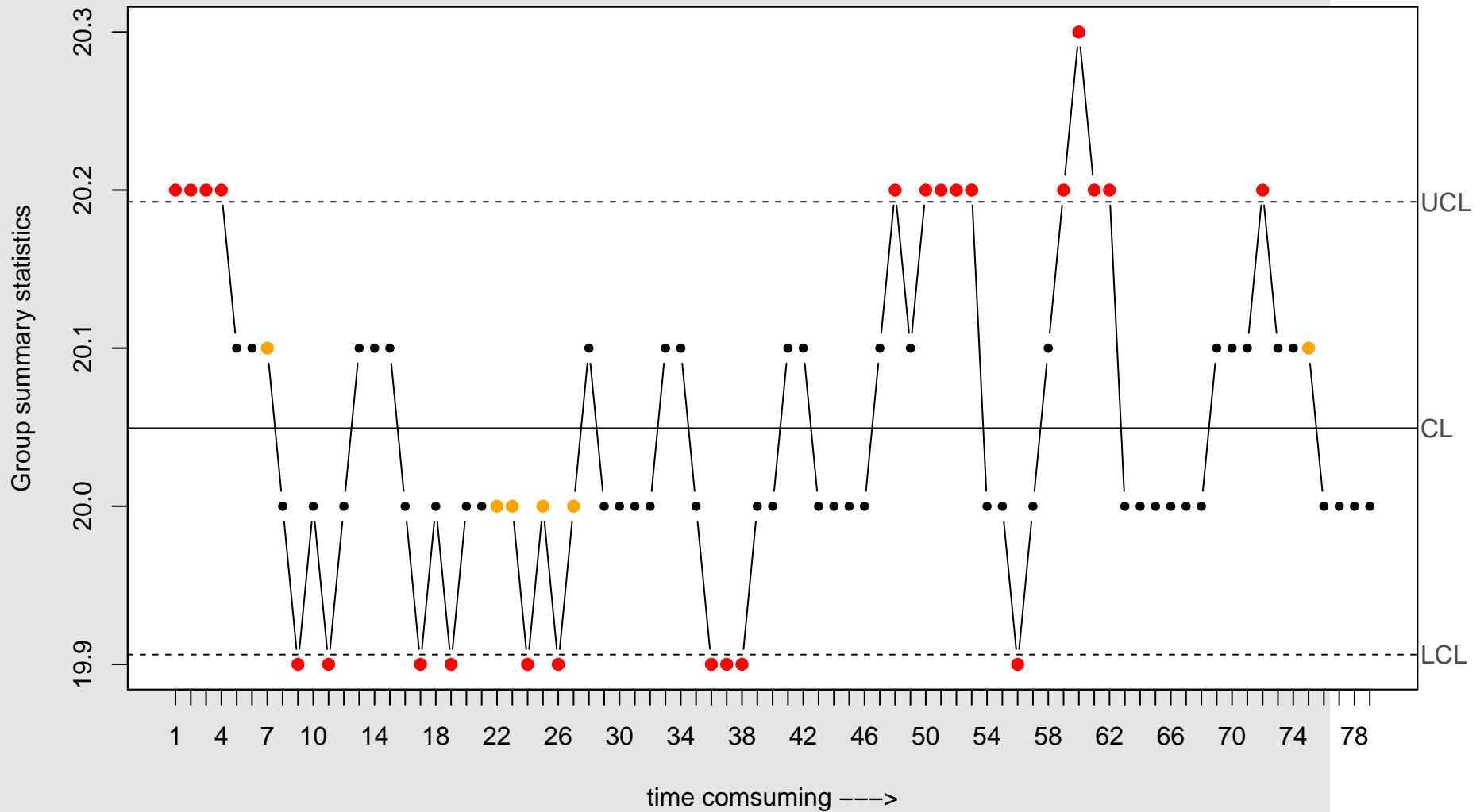


Number of groups = 79
Center = 20.01519
StdDev = 0.04659938

LCL = 19.87539
UCL = 20.15499

Number beyond limits = 10
Number violating runs = 22

138th column point of this product

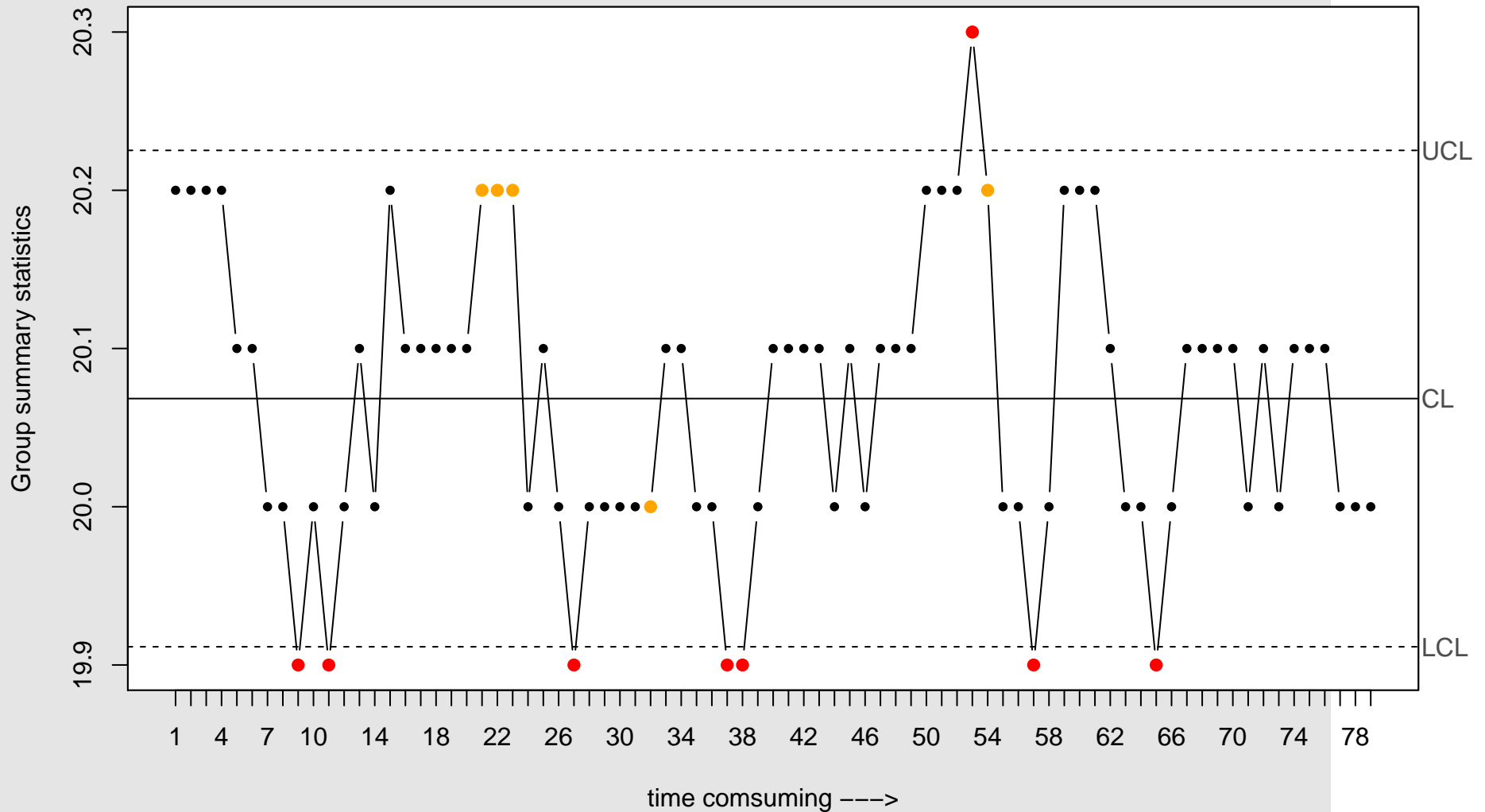


Number of groups = 79
Center = 20.04937
StdDev = 0.04773595

LCL = 19.90616
UCL = 20.19257

Number beyond limits = 24
Number violating runs = 9

139th column point of this product

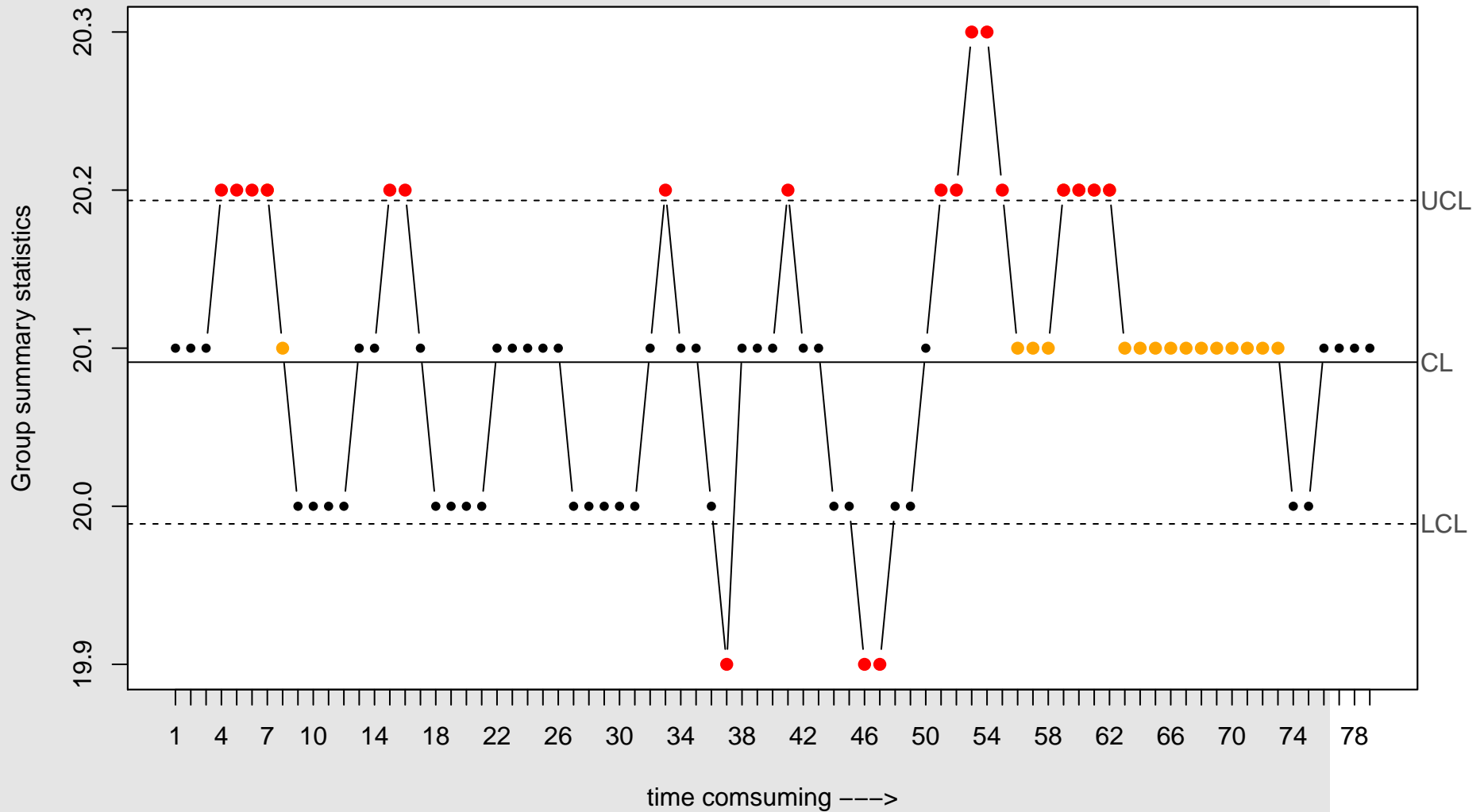


Number of groups = 79
 Center = 20.06835
 StdDev = 0.05228223

LCL = 19.91151
 UCL = 20.2252

Number beyond limits = 8
 Number violating runs = 6

140th column point of this product

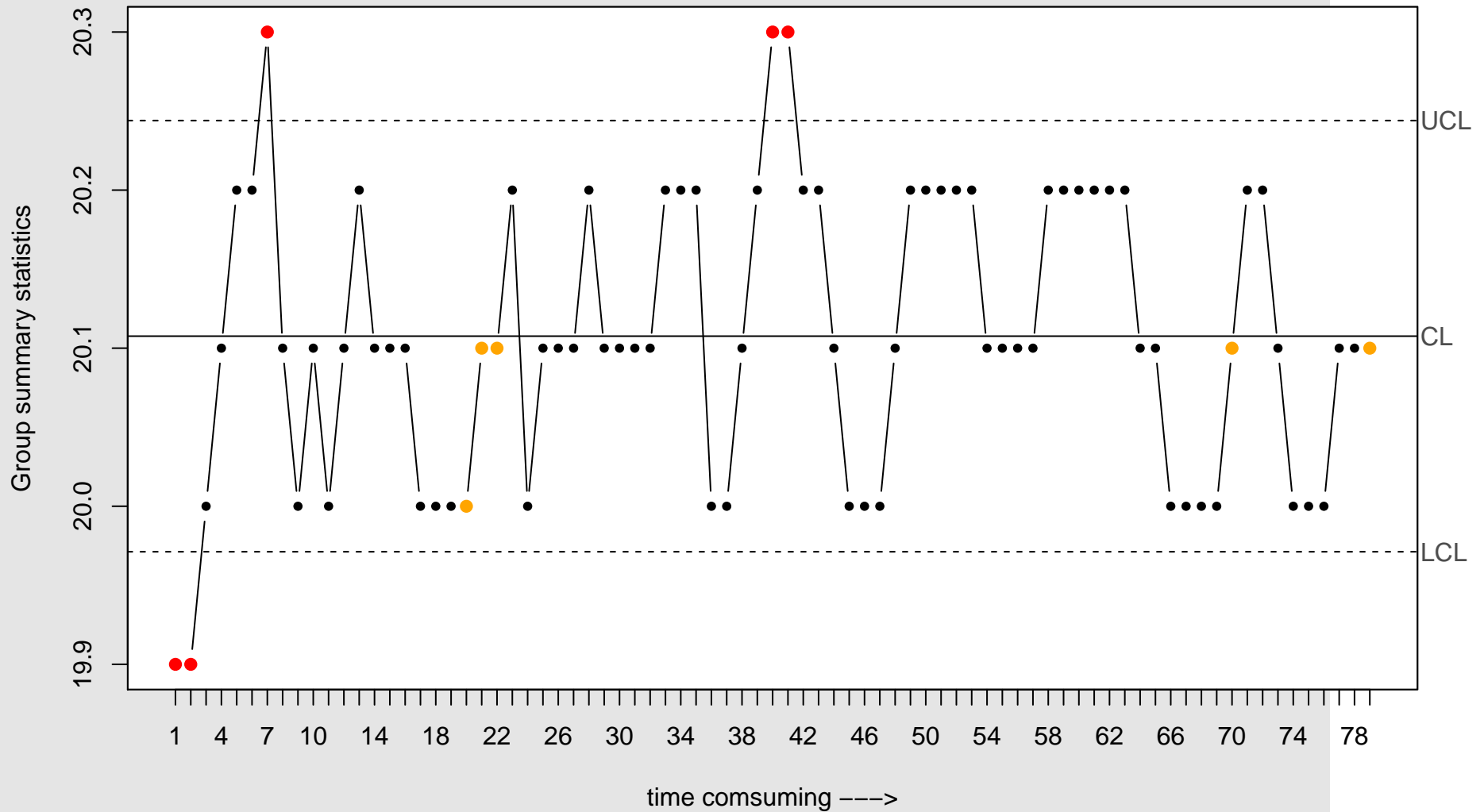


Number of groups = 79
 Center = 20.09114
 StdDev = 0.03409711

LCL = 19.98885
 UCL = 20.19343

Number beyond limits = 20
 Number violating runs = 20

141th column point of this product

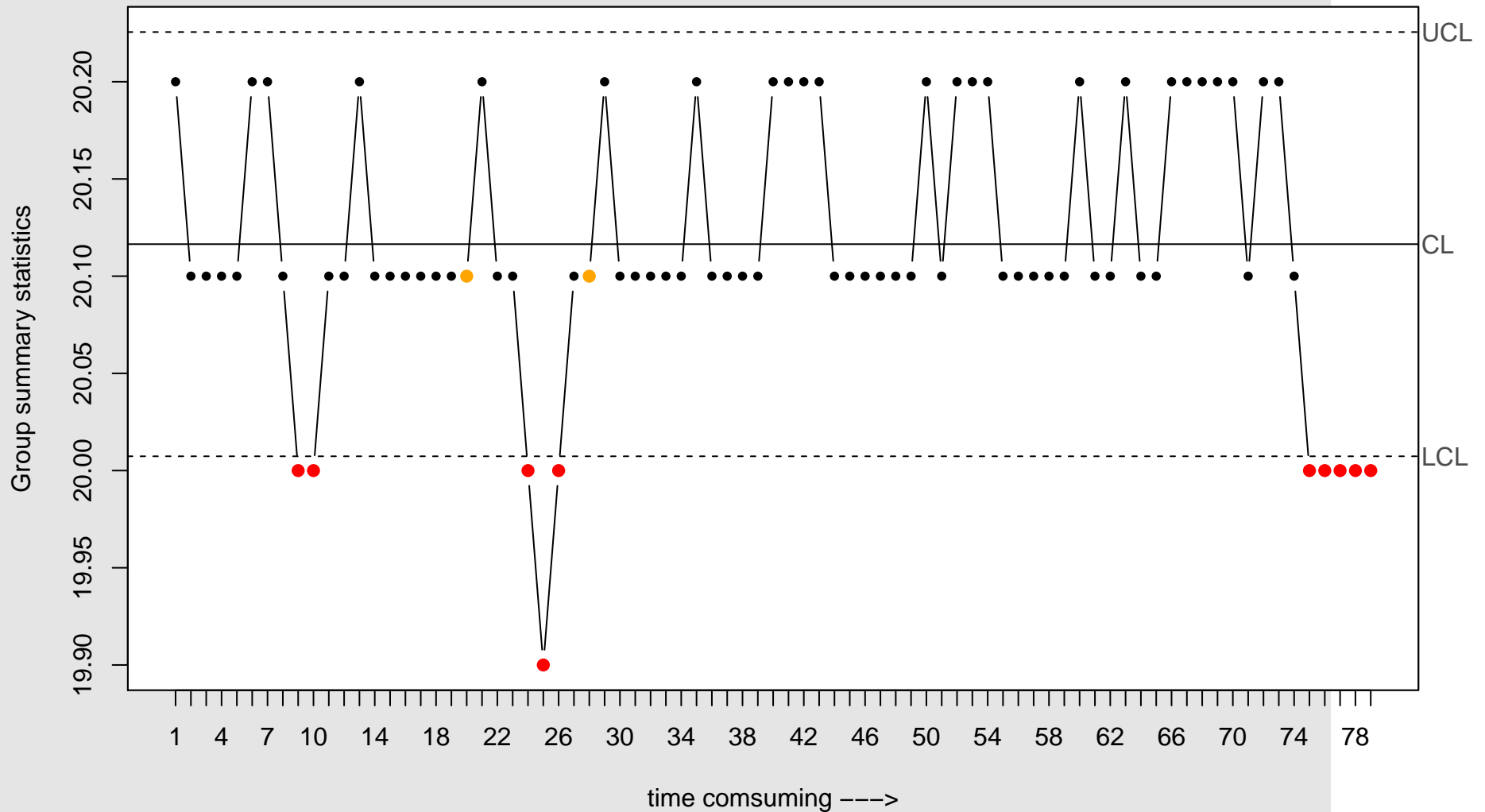


Number of groups = 79
Center = 20.10759
StdDev = 0.04546281

LCL = 19.97121
UCL = 20.24398

Number beyond limits = 5
Number violating runs = 5

142th column point of this product

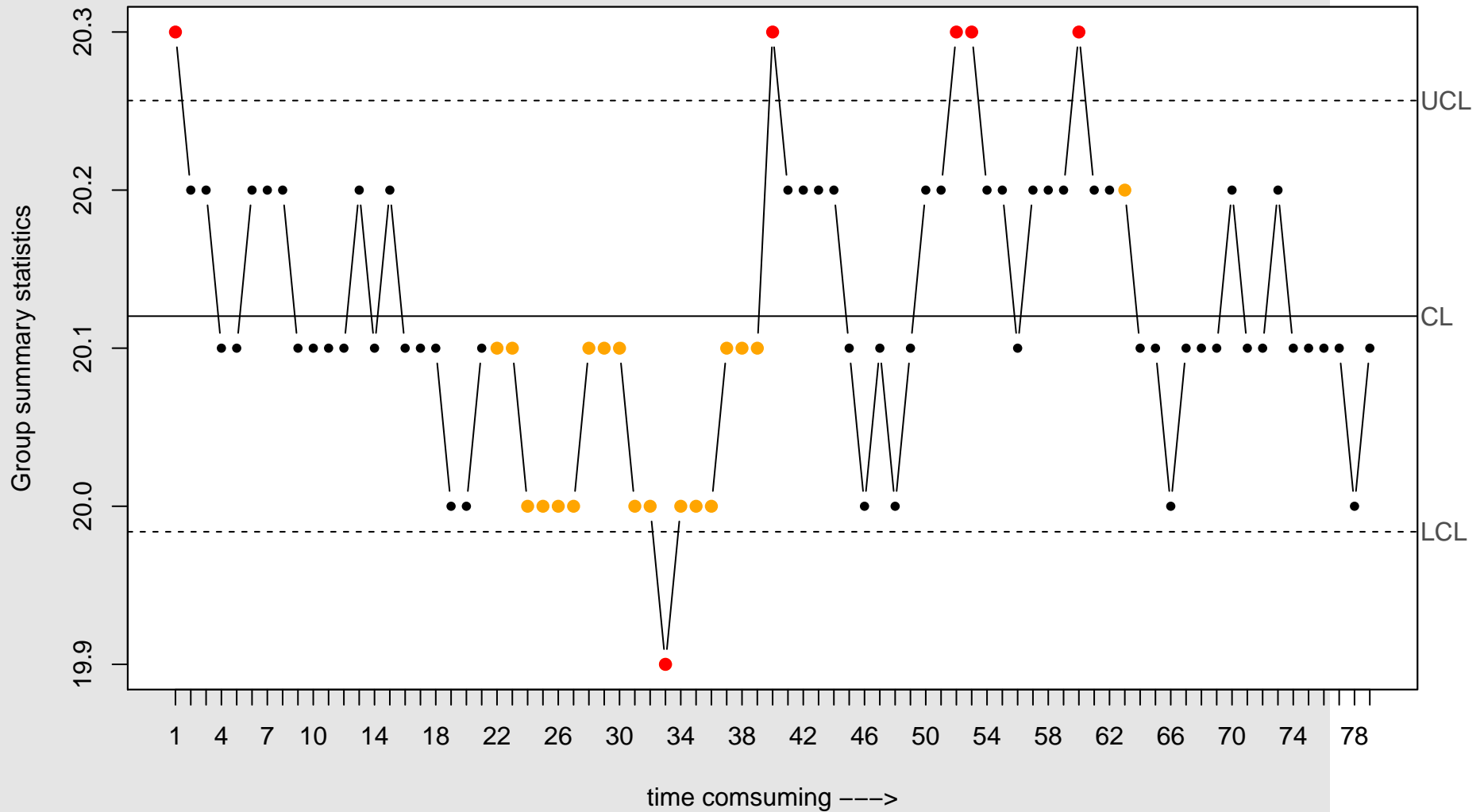


Number of groups = 79
 Center = 20.11646
 StdDev = 0.03637025

LCL = 20.00734
 UCL = 20.22557

Number beyond limits = 10
 Number violating runs = 2

143th column point of this product



Number of groups = 79

Center = 20.12025

StdDev = 0.04546281

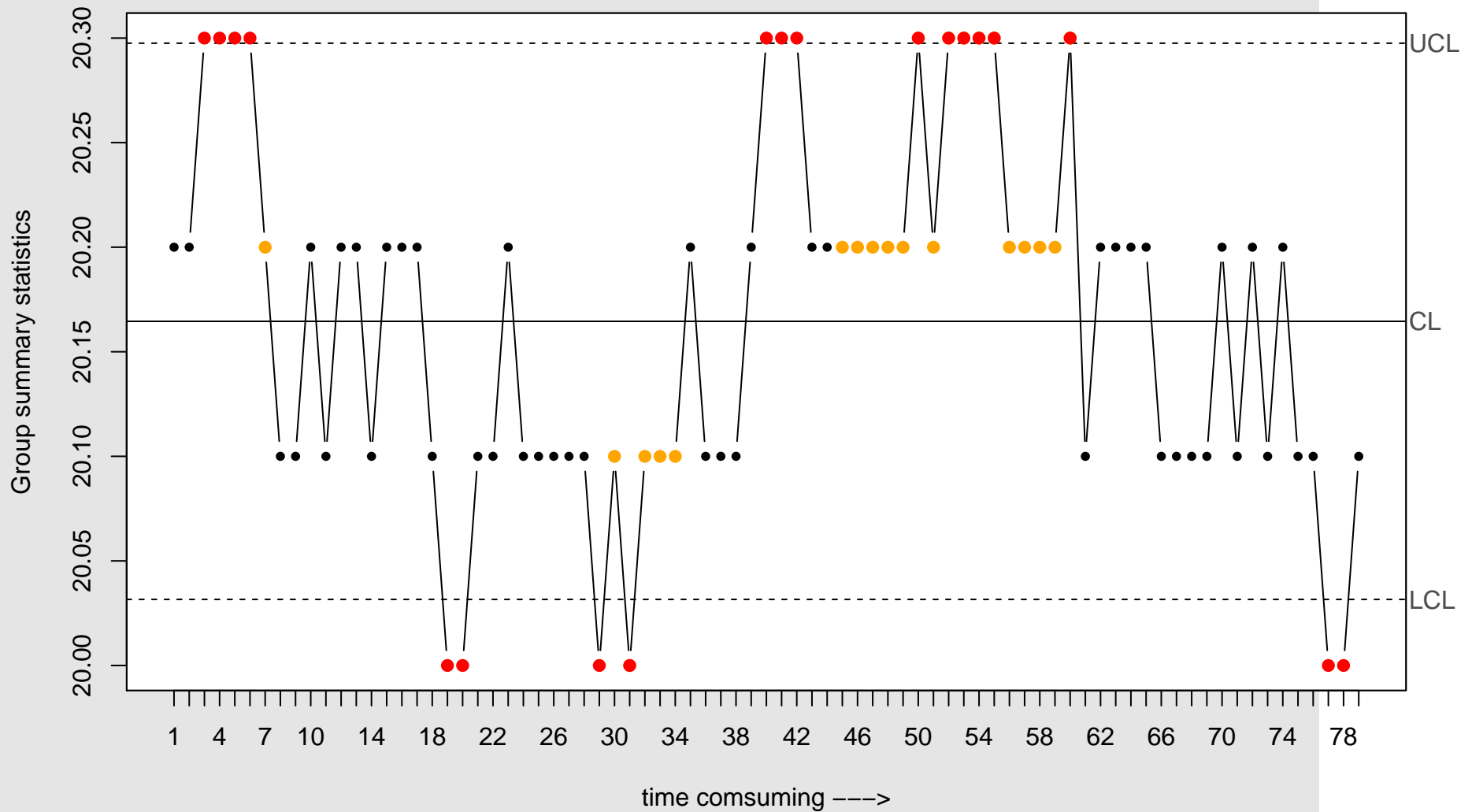
LCL = 19.98386

UCL = 20.25664

Number beyond limits = 6

Number violating runs = 19

144th column point of this product

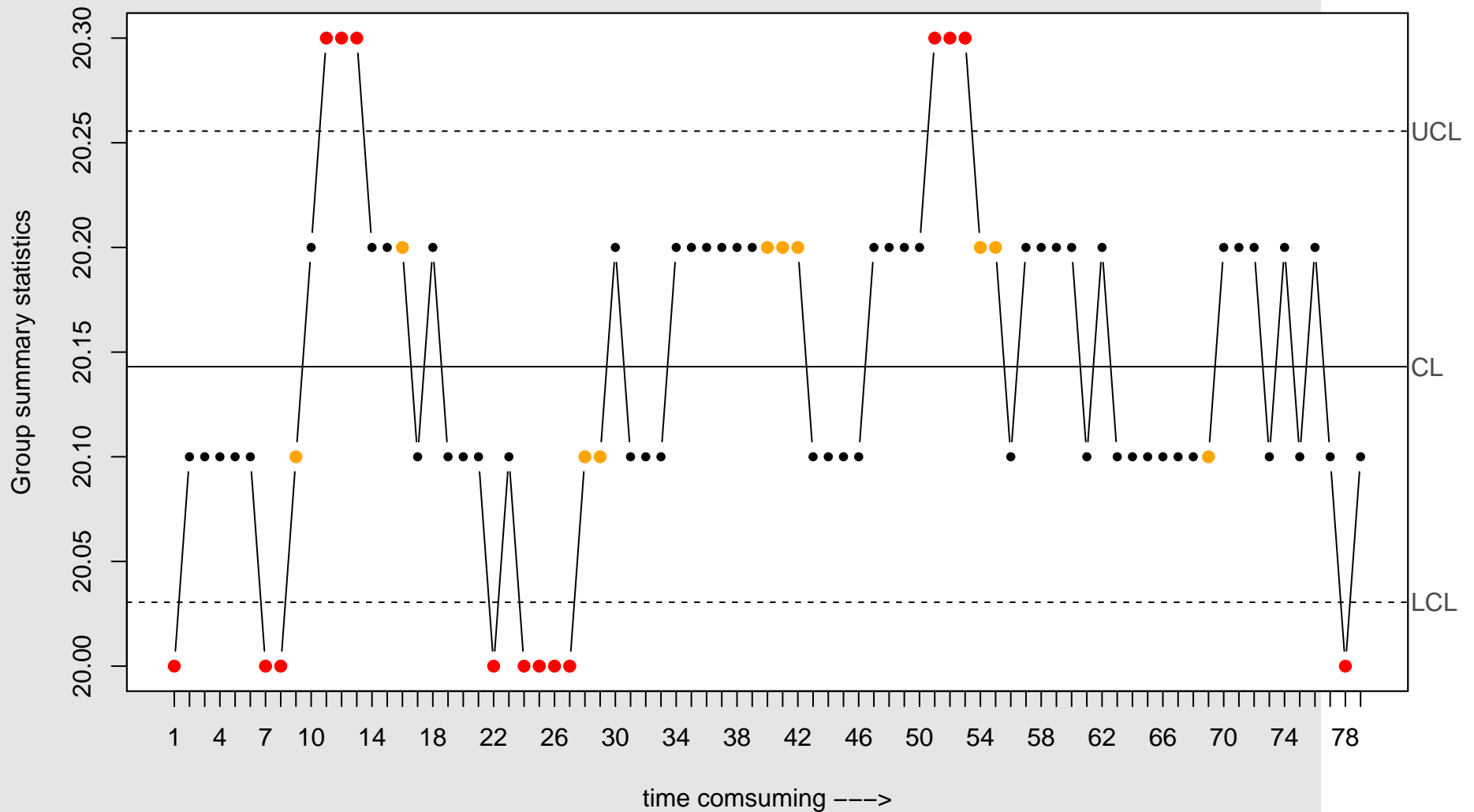


Number of groups = 79
 Center = 20.16456
 StdDev = 0.04432624

LCL = 20.03158
 UCL = 20.29754

Number beyond limits = 19
 Number violating runs = 22

145th column point of this product

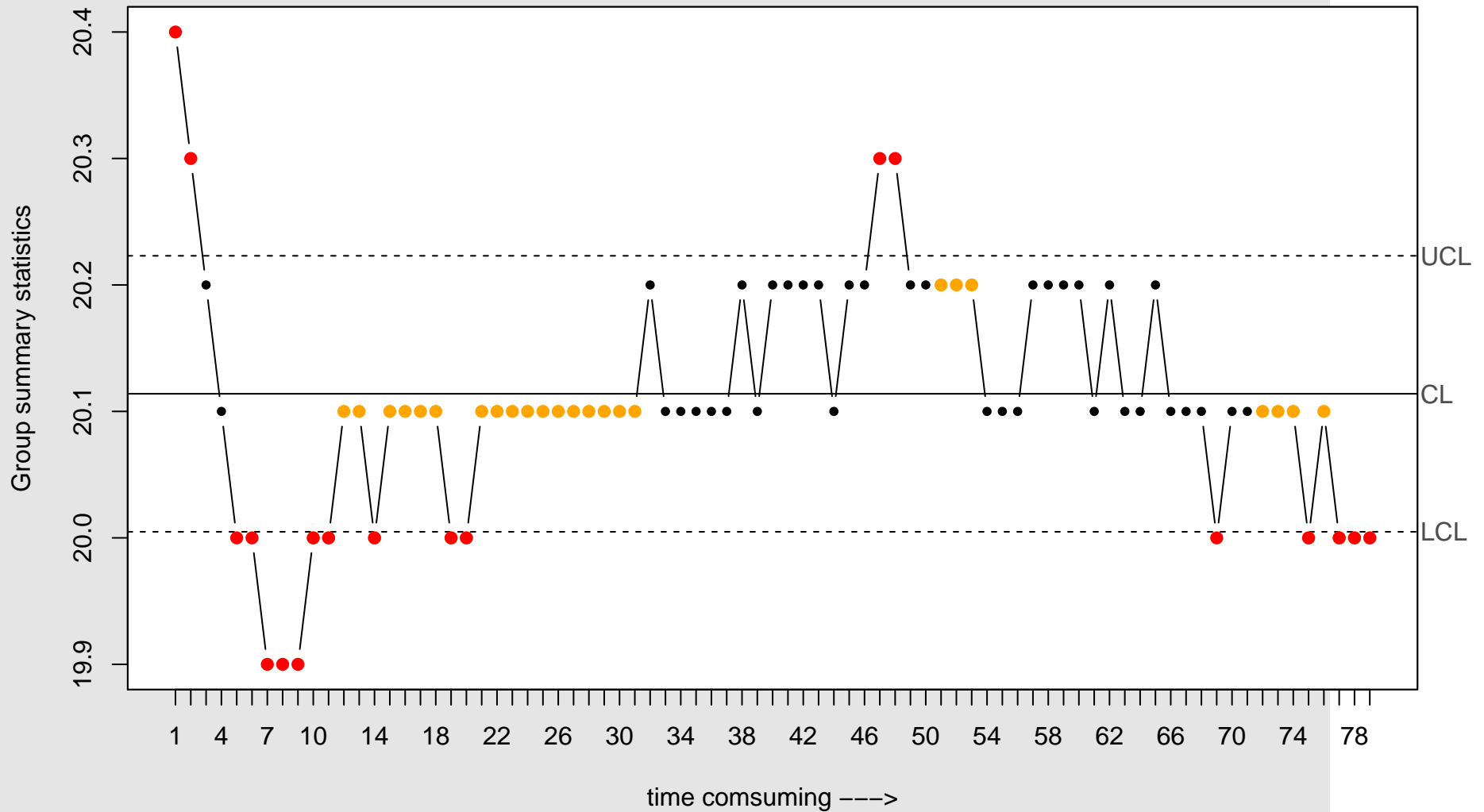


Number of groups = 79
 Center = 20.14304
 StdDev = 0.03750682

LCL = 20.03052
 UCL = 20.25556

Number beyond limits = 15
 Number violating runs = 16

146th column point of this product

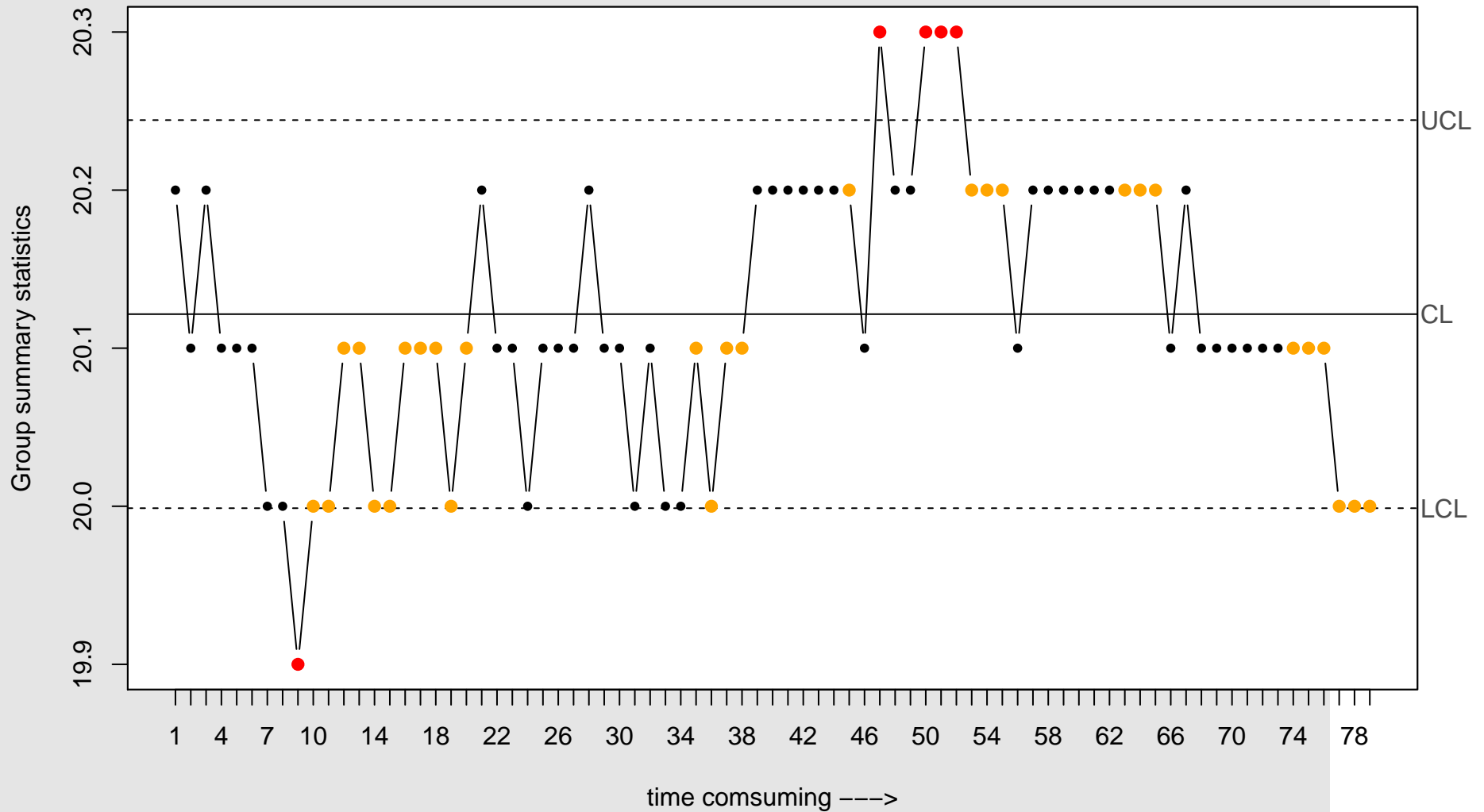


Number of groups = 79
Center = 20.11392
StdDev = 0.03637025

LCL = 20.00481
UCL = 20.22303

Number beyond limits = 19
Number violating runs = 33

147th column point of this product

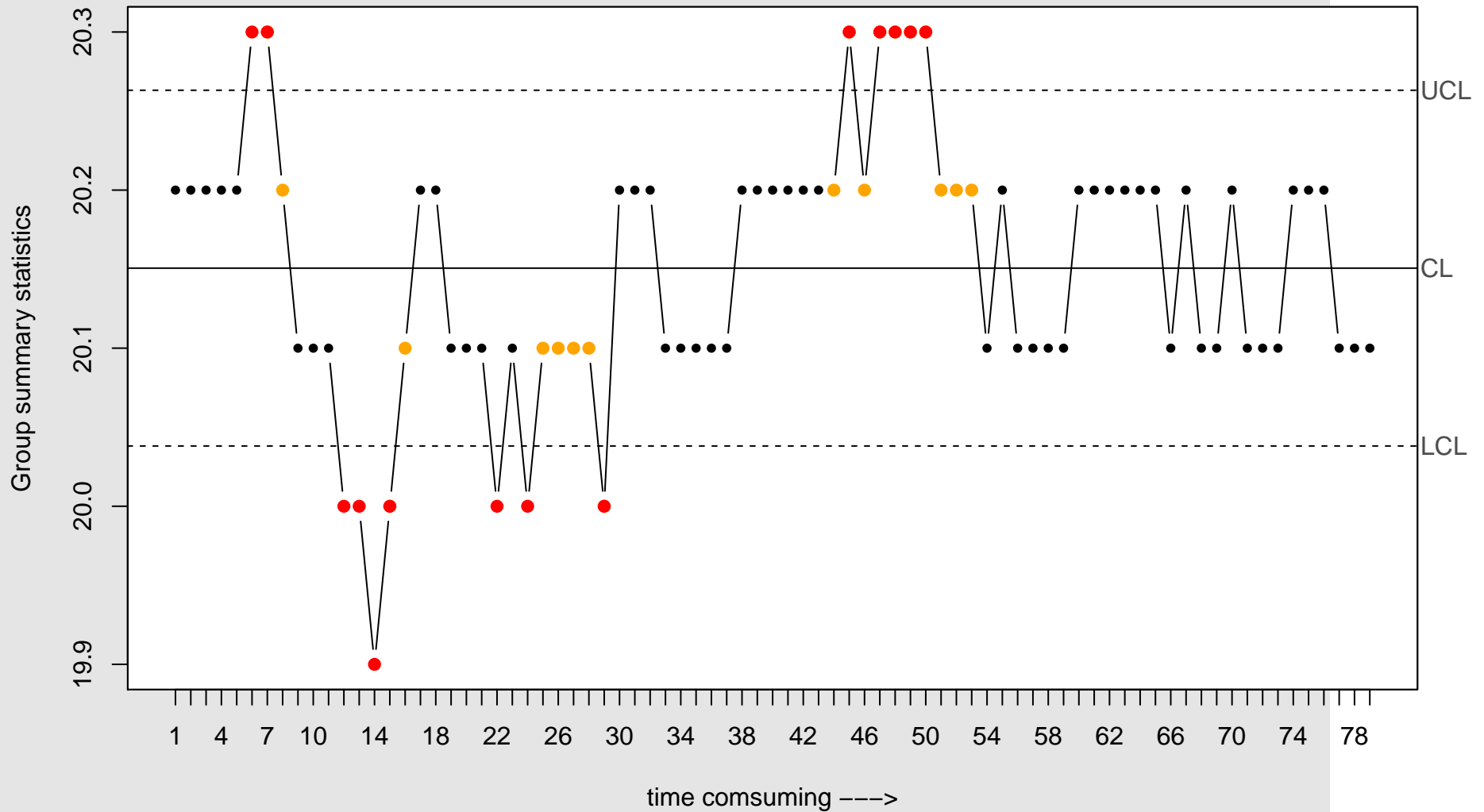


Number of groups = 79
Center = 20.12152
StdDev = 0.04091653

LCL = 19.99877
UCL = 20.24427

Number beyond limits = 5
Number violating runs = 28

148th column point of this product

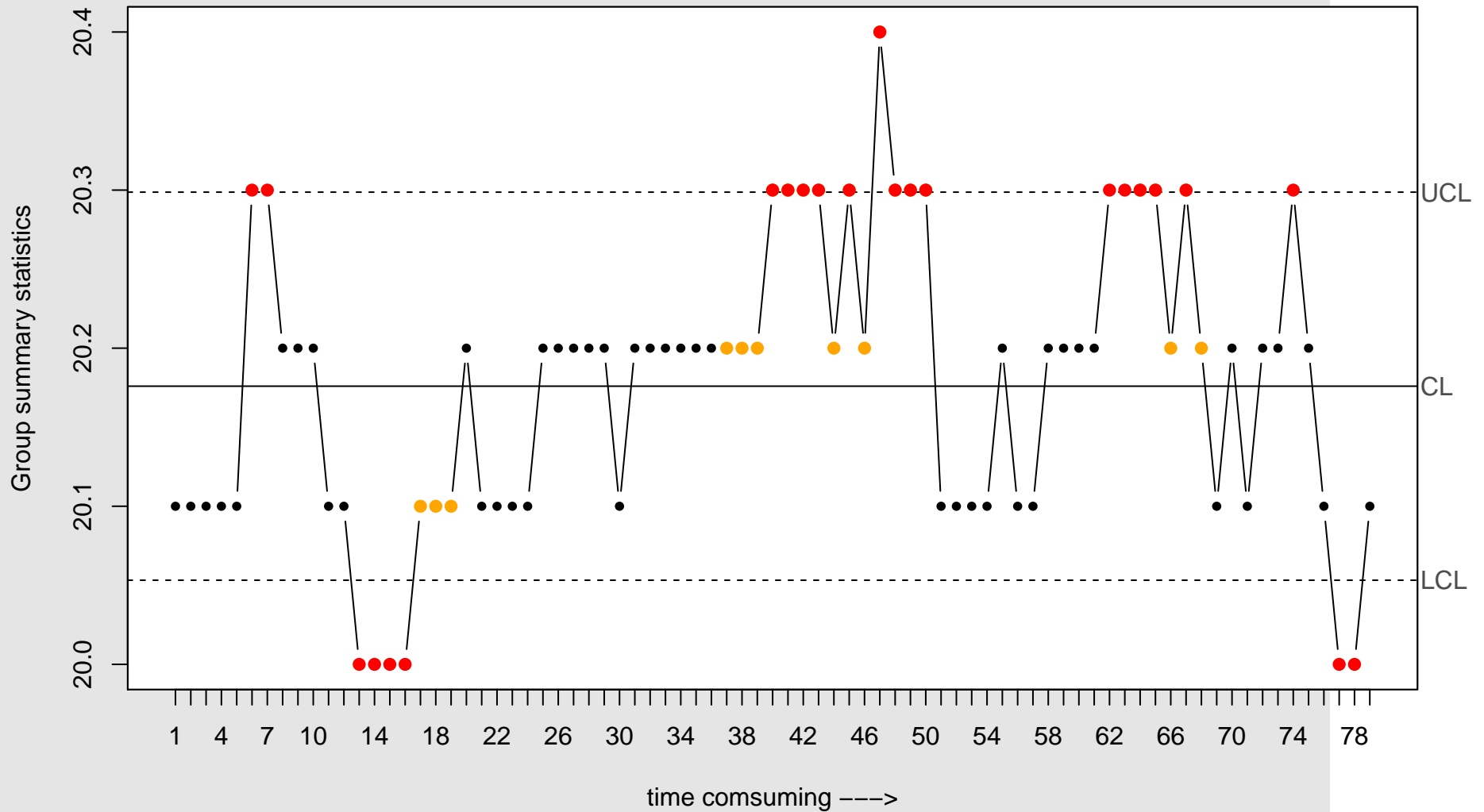


Number of groups = 79
Center = 20.15063
StdDev = 0.03750682

LCL = 20.03811
UCL = 20.26315

Number beyond limits = 14
Number violating runs = 19

149th column point of this product

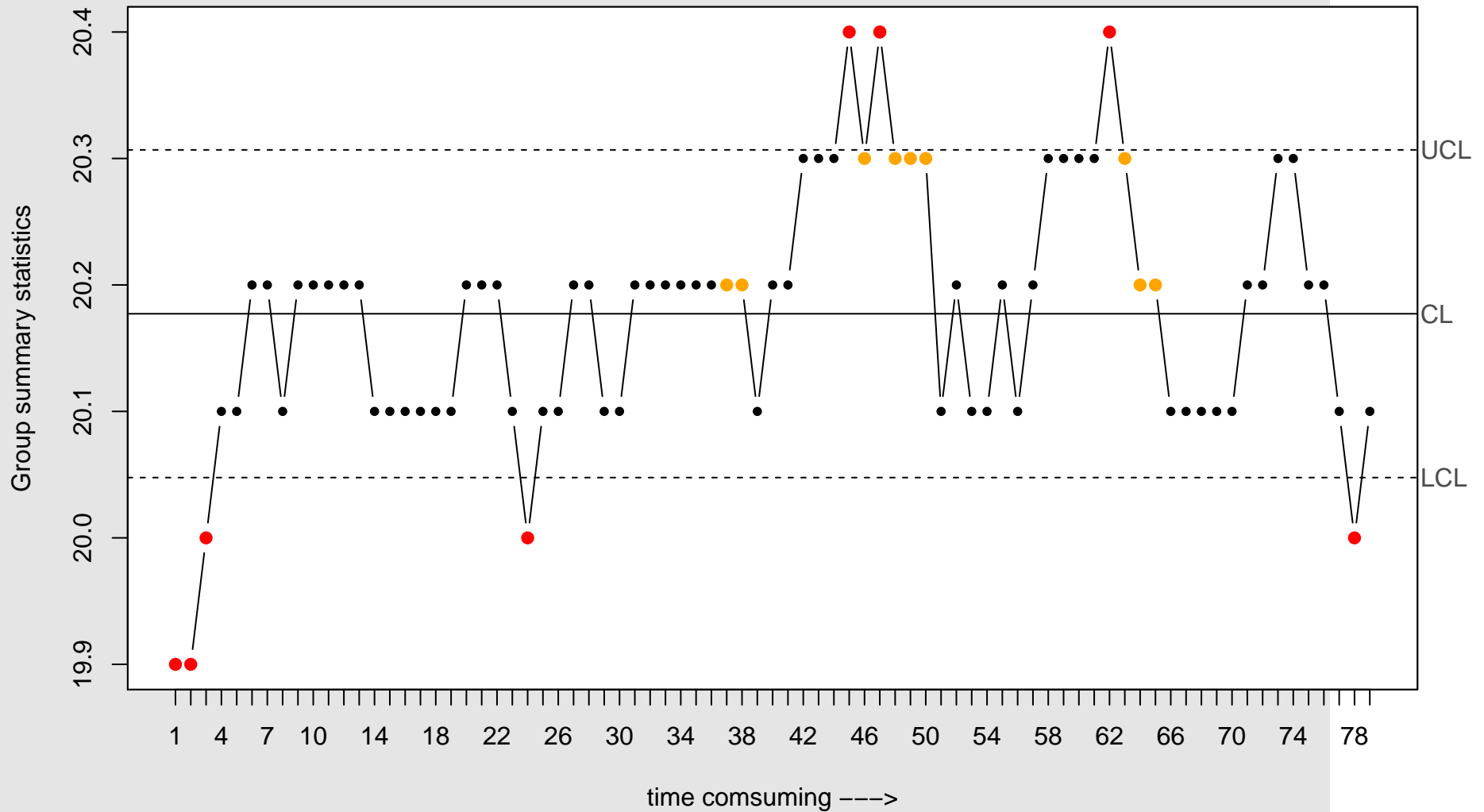


Number of groups = 79
 Center = 20.17595
 StdDev = 0.04091653

LCL = 20.0532
 UCL = 20.2987

Number beyond limits = 23
 Number violating runs = 22

150th column point of this product

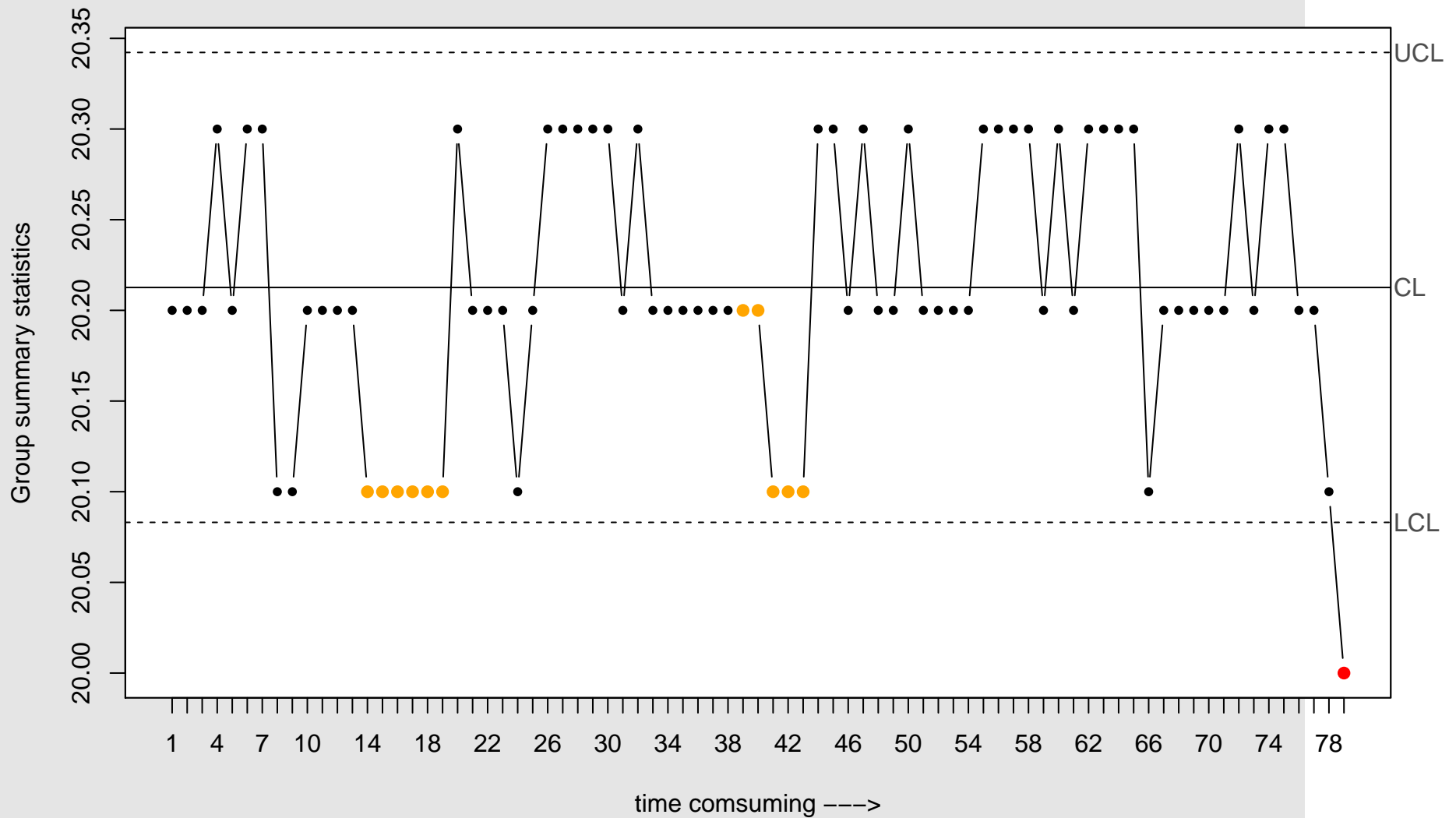


Number of groups = 79
 Center = 20.17722
 StdDev = 0.04318967

LCL = 20.04765
 UCL = 20.30678

Number beyond limits = 8
 Number violating runs = 10

151th column point of this product

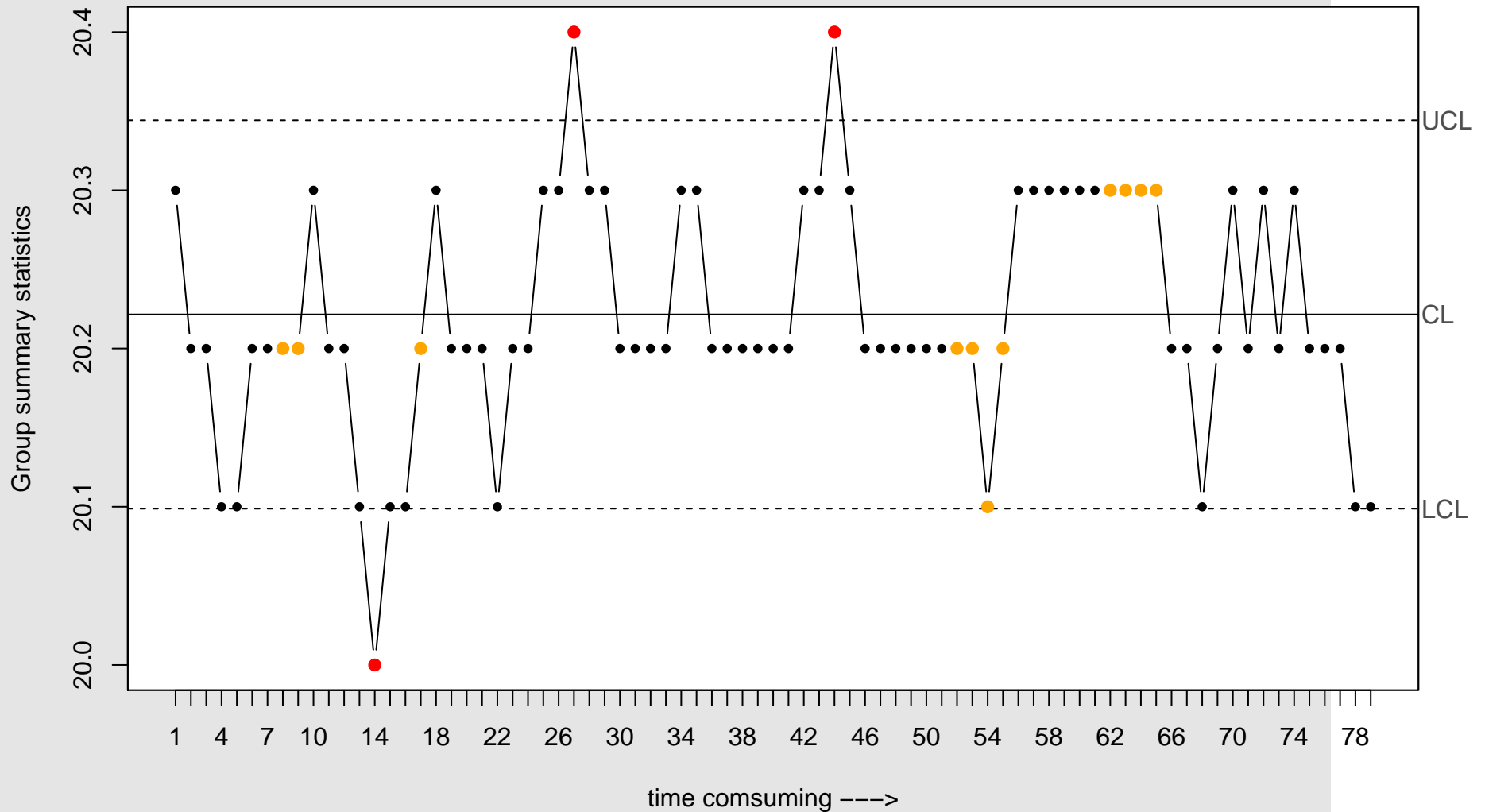


Number of groups = 79
 Center = 20.21266
 StdDev = 0.04318967

LCL = 20.08309
 UCL = 20.34223

Number beyond limits = 1
 Number violating runs = 11

152th column point of this product

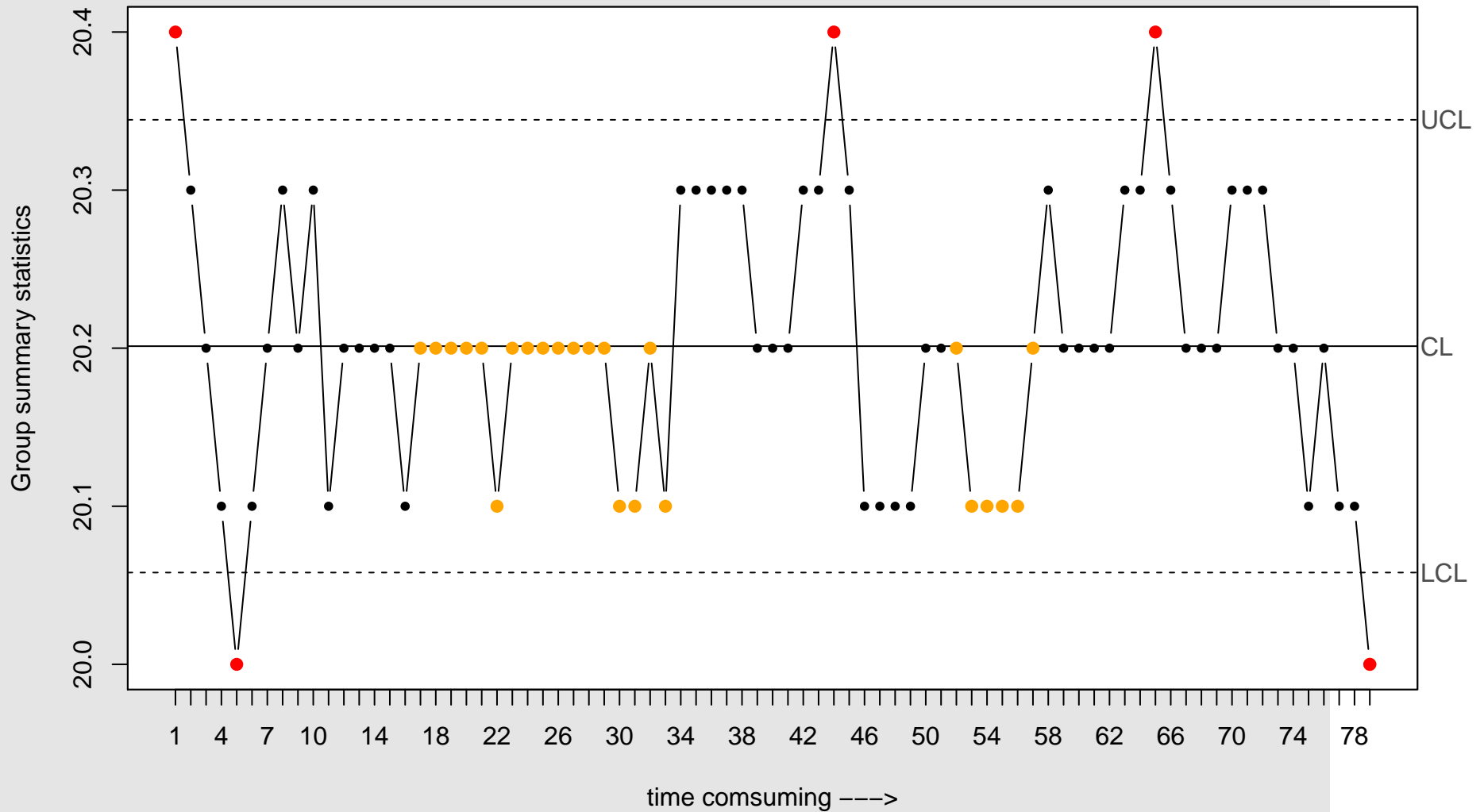


Number of groups = 79
 Center = 20.22152
 StdDev = 0.04091653

LCL = 20.09877
 UCL = 20.34427

Number beyond limits = 3
 Number violating runs = 11

153th column point of this product

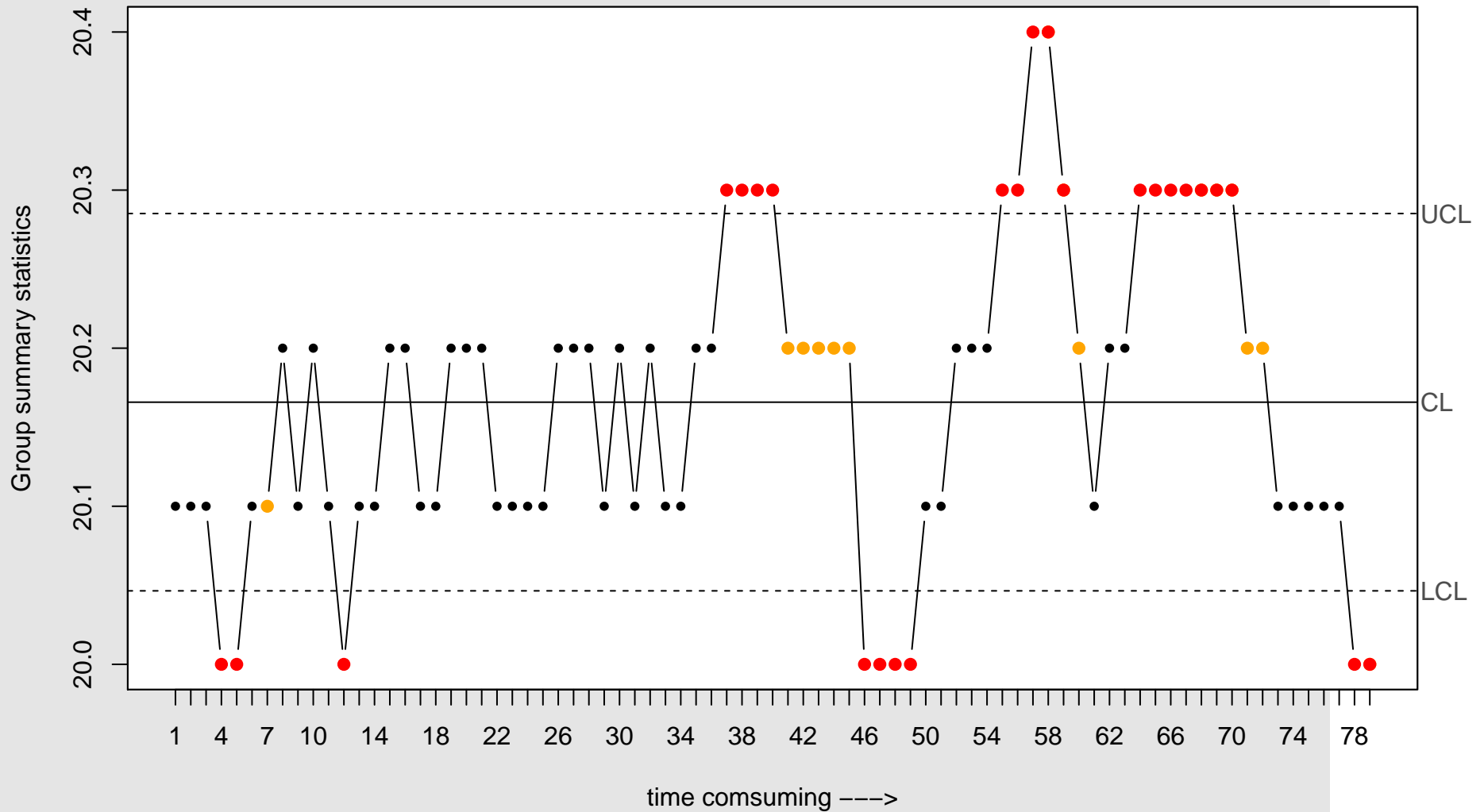


Number of groups = 79
Center = 20.20127
StdDev = 0.04773595

LCL = 20.05806
UCL = 20.34447

Number beyond limits = 5
Number violating runs = 24

154th column point of this product

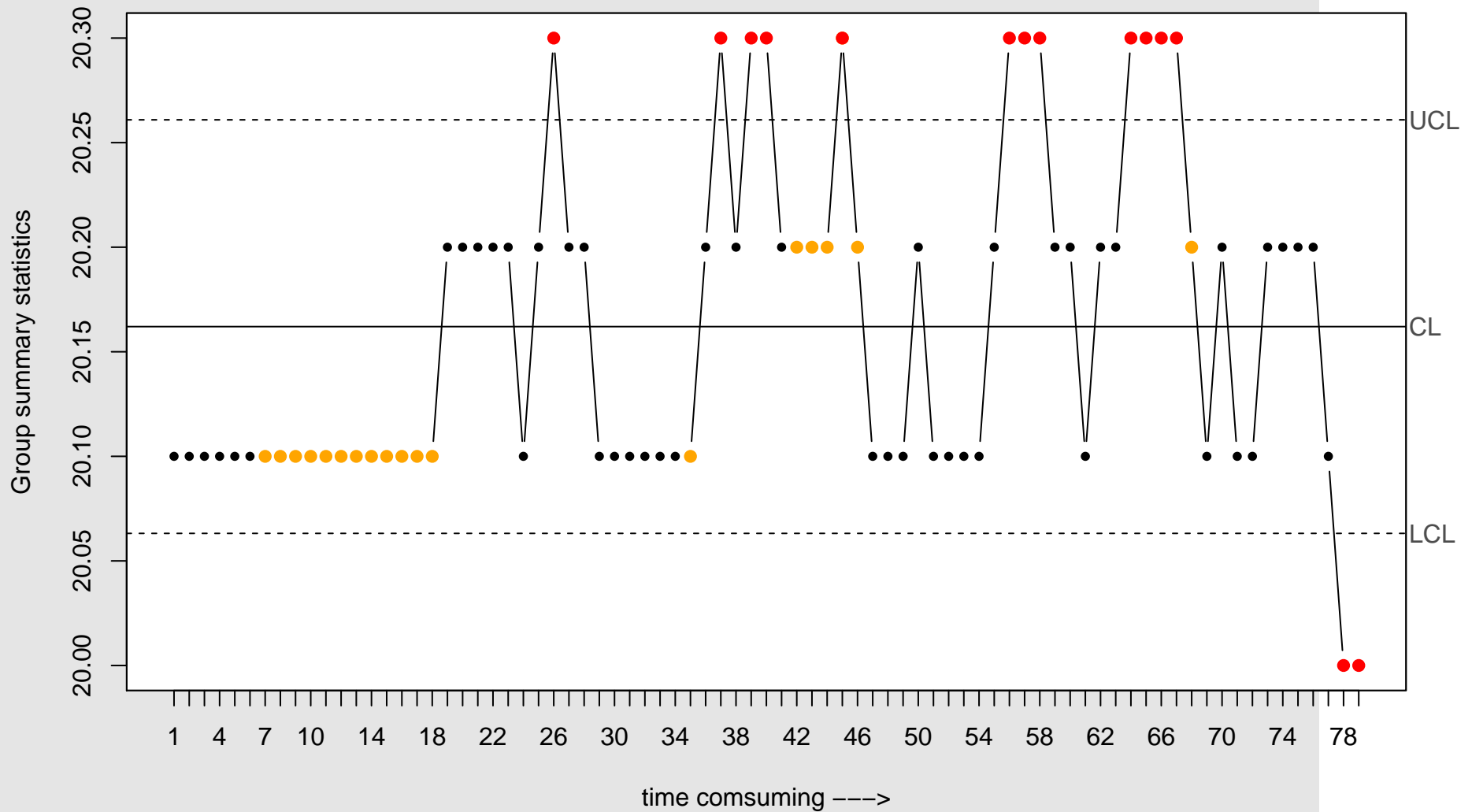


Number of groups = 79
Center = 20.16582
StdDev = 0.03977996

LCL = 20.04648
UCL = 20.28516

Number beyond limits = 25
Number violating runs = 15

155th column point of this product

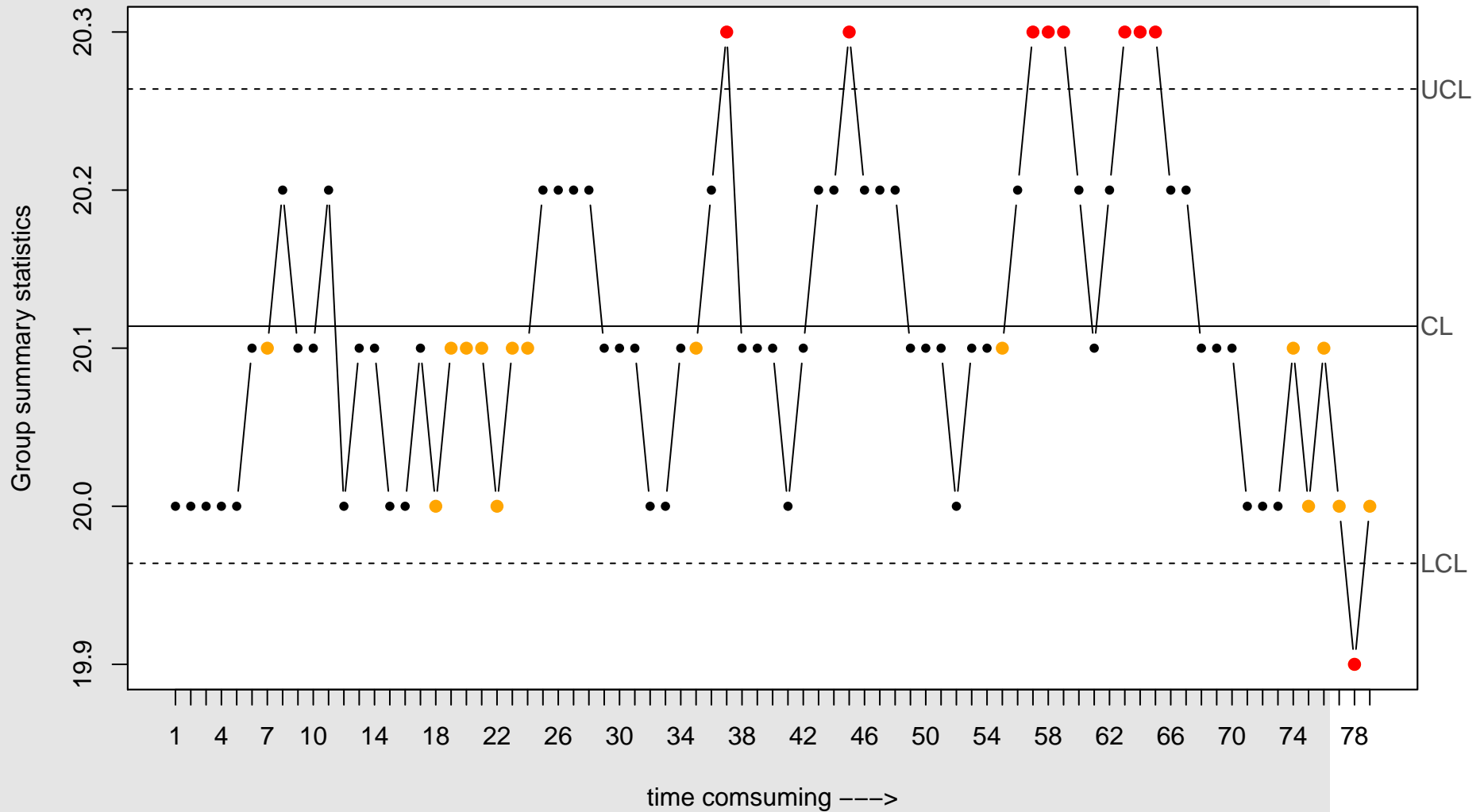


Number of groups = 79
 Center = 20.16203
 StdDev = 0.03296054

LCL = 20.06314
 UCL = 20.26091

Number beyond limits = 14
 Number violating runs = 19

156th column point of this product

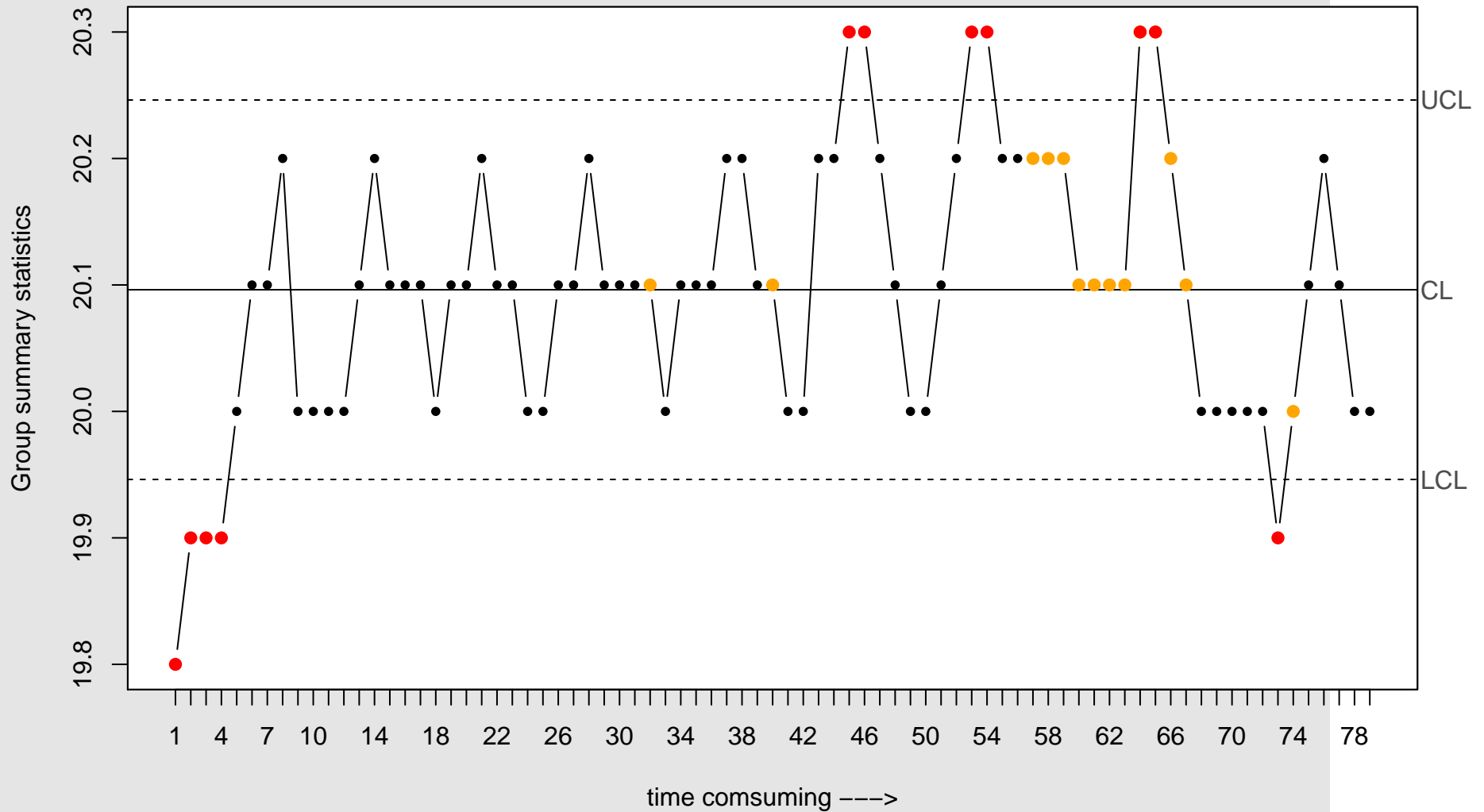


Number of groups = 79
Center = 20.11392
StdDev = 0.05000909

LCL = 19.9639
UCL = 20.26395

Number beyond limits = 9
Number violating runs = 16

157th column point of this product

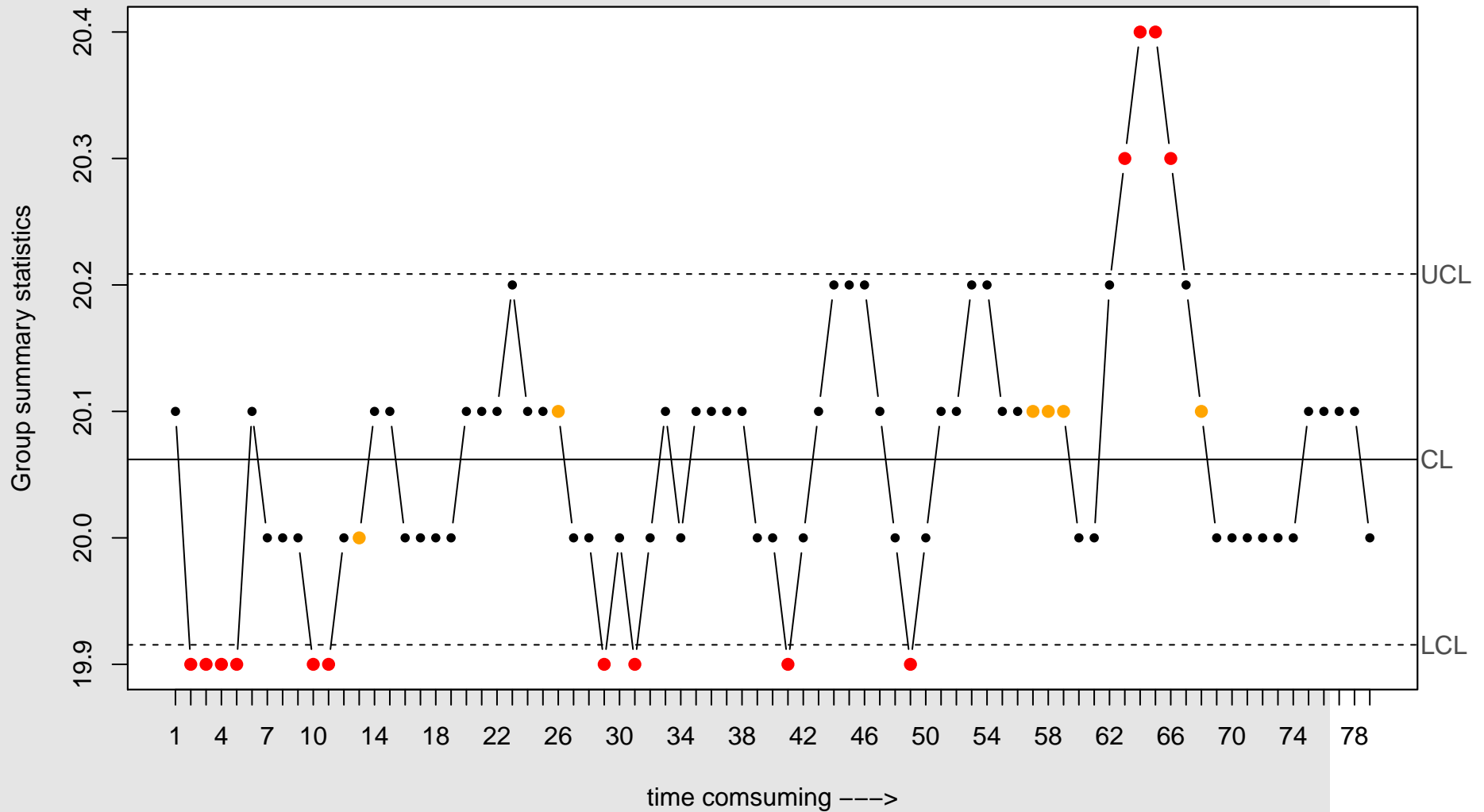


Number of groups = 79
Center = 20.0962
StdDev = 0.05000909

LCL = 19.94618
UCL = 20.24623

Number beyond limits = 11
Number violating runs = 14

158th column point of this product

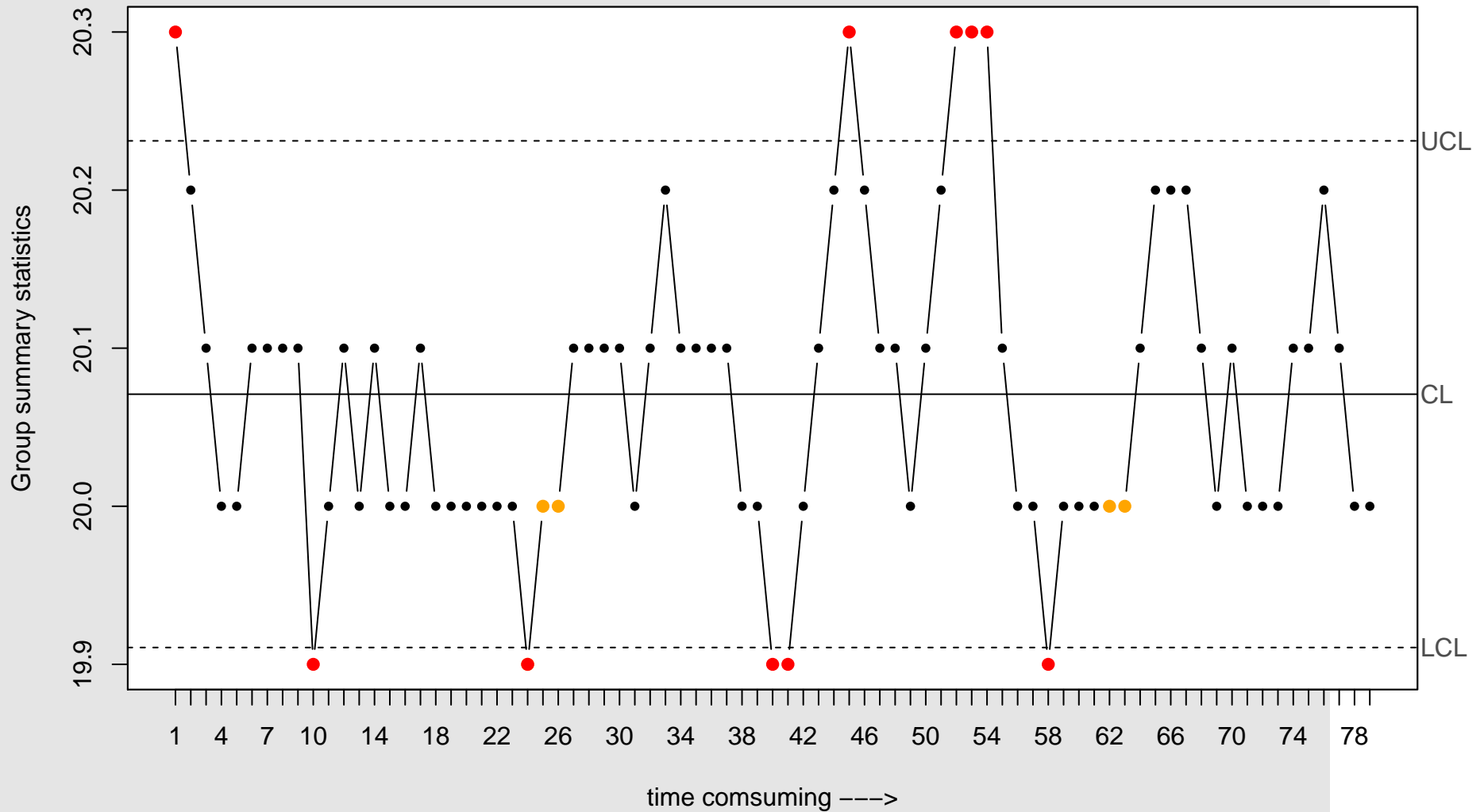


Number of groups = 79
Center = 20.06203
StdDev = 0.04887252

LCL = 19.91541
UCL = 20.20864

Number beyond limits = 14
Number violating runs = 6

159th column point of this product

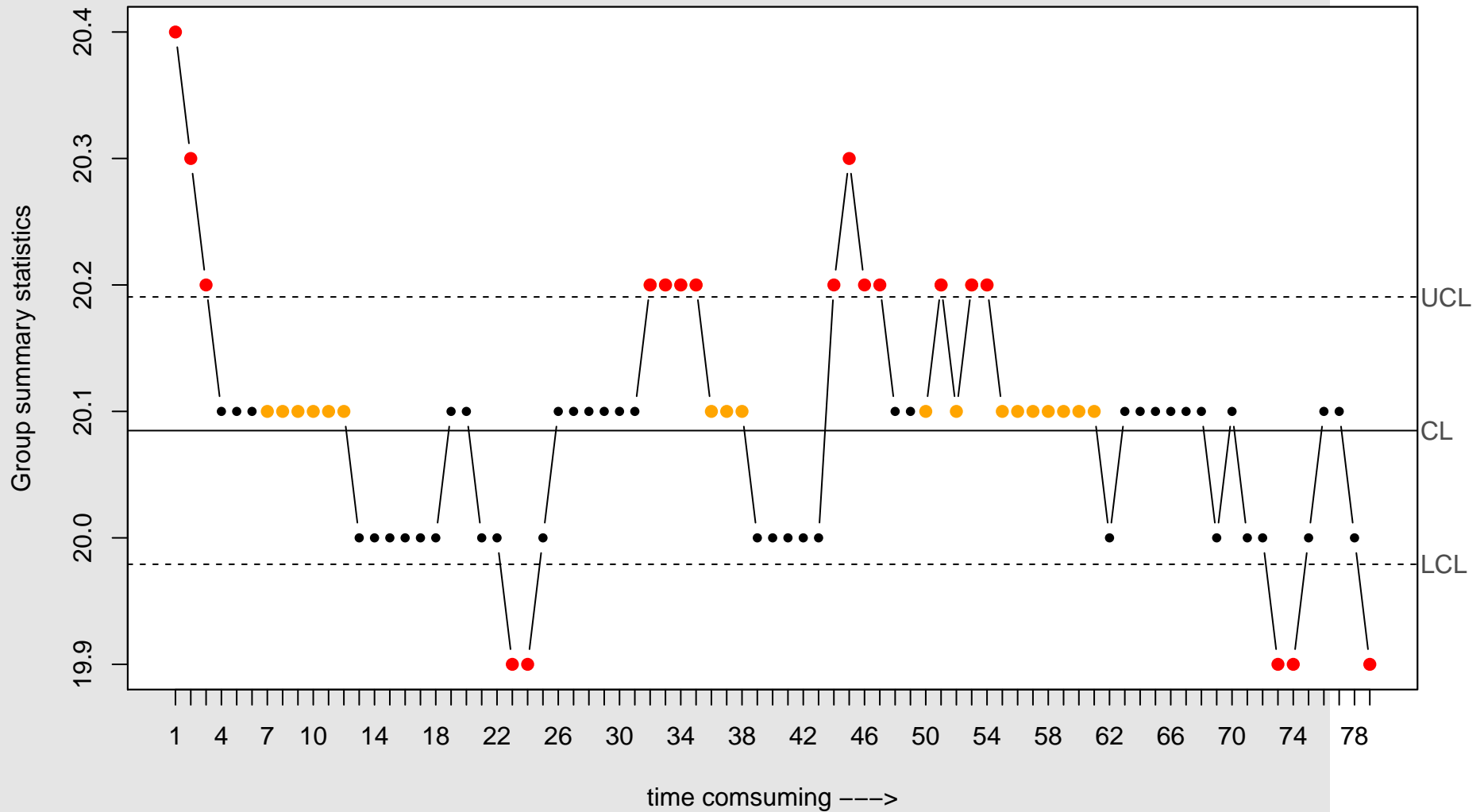


Number of groups = 79
Center = 20.07089
StdDev = 0.0534188

LCL = 19.91063
UCL = 20.23114

Number beyond limits = 10
Number violating runs = 5

160th column point of this product

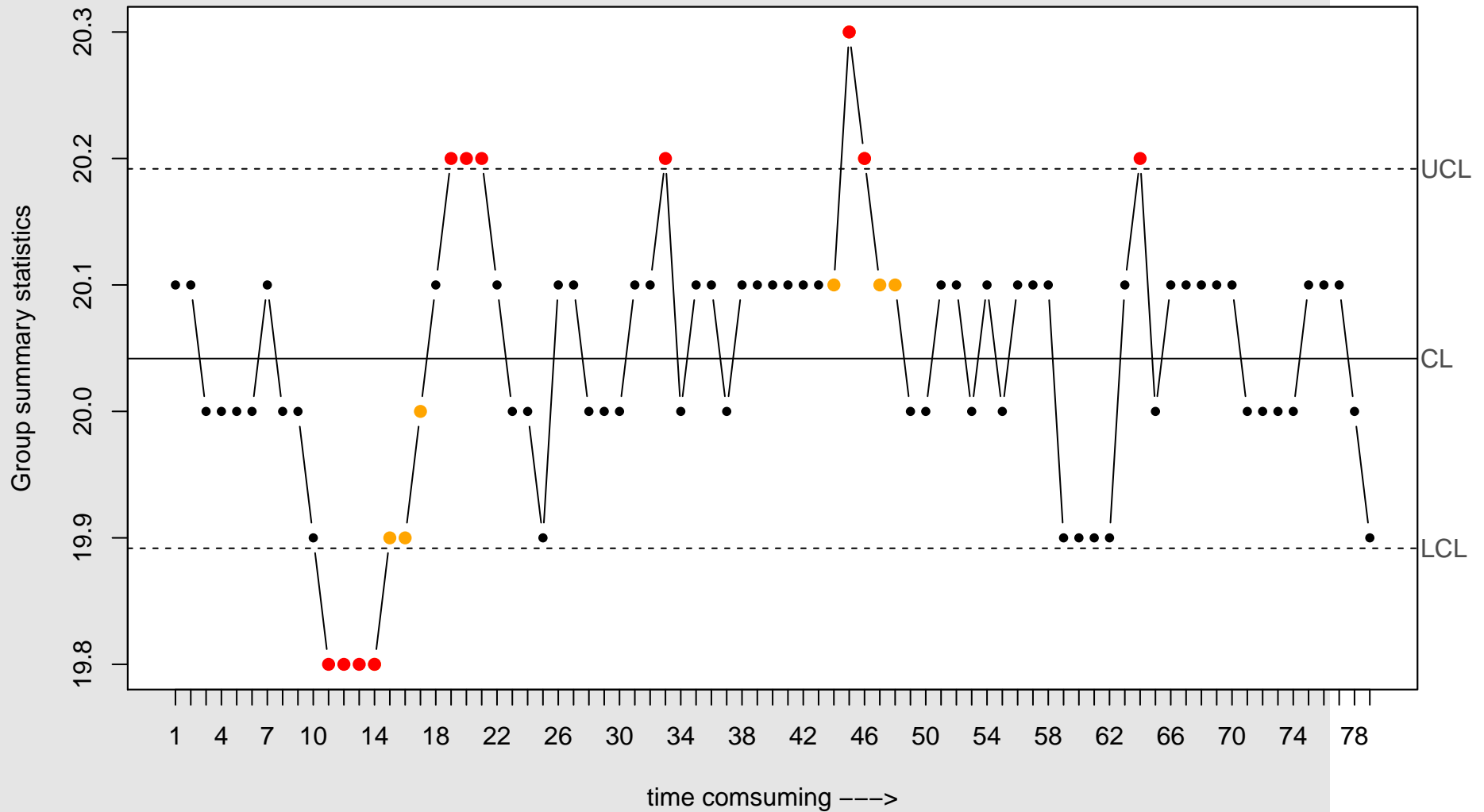


Number of groups = 79
 Center = 20.08481
 StdDev = 0.03523368

LCL = 19.97911
 UCL = 20.19051

Number beyond limits = 19
 Number violating runs = 25

161th column point of this product

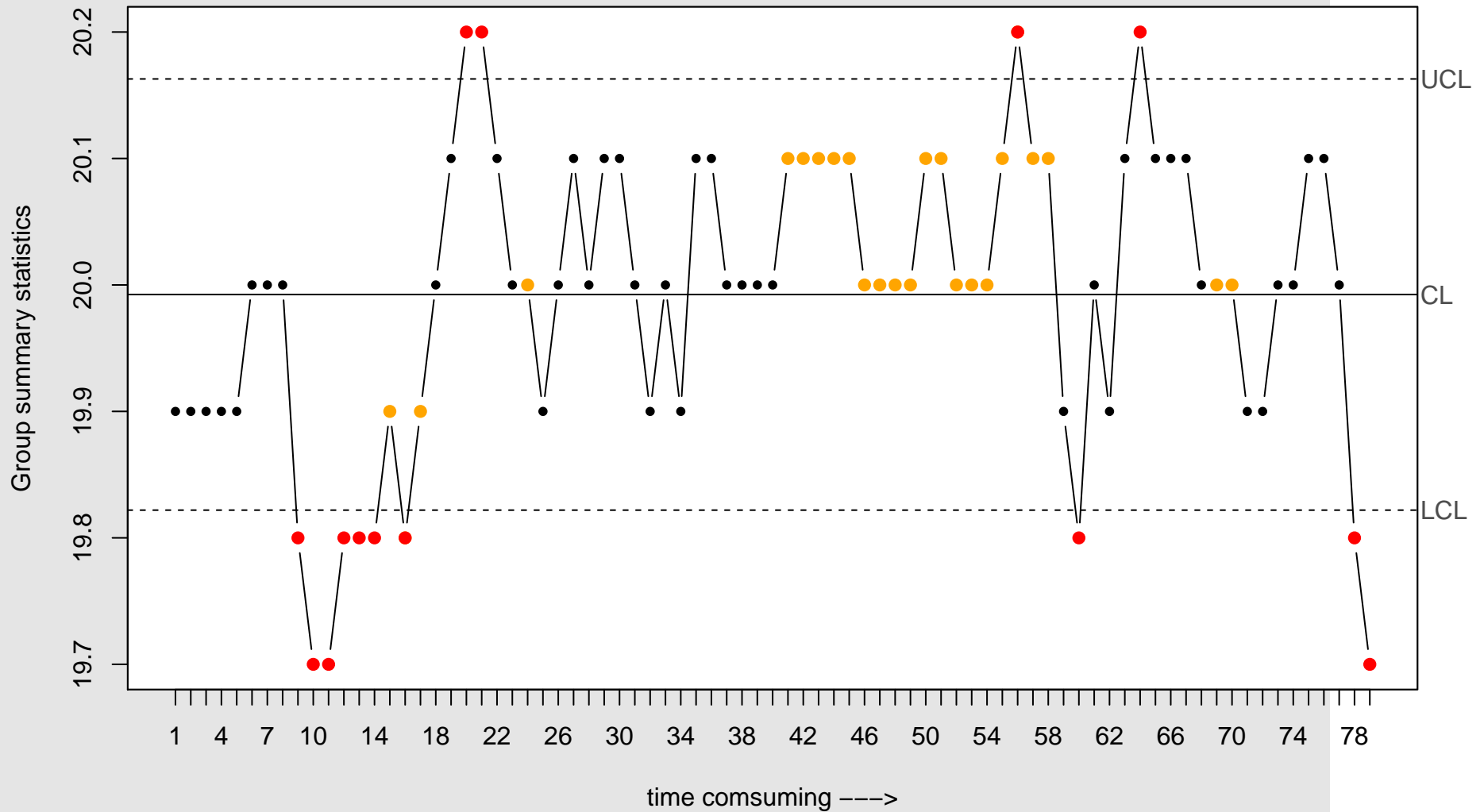


Number of groups = 79
Center = 20.04177
StdDev = 0.05000909

LCL = 19.89174
UCL = 20.1918

Number beyond limits = 11
Number violating runs = 9

162th column point of this product

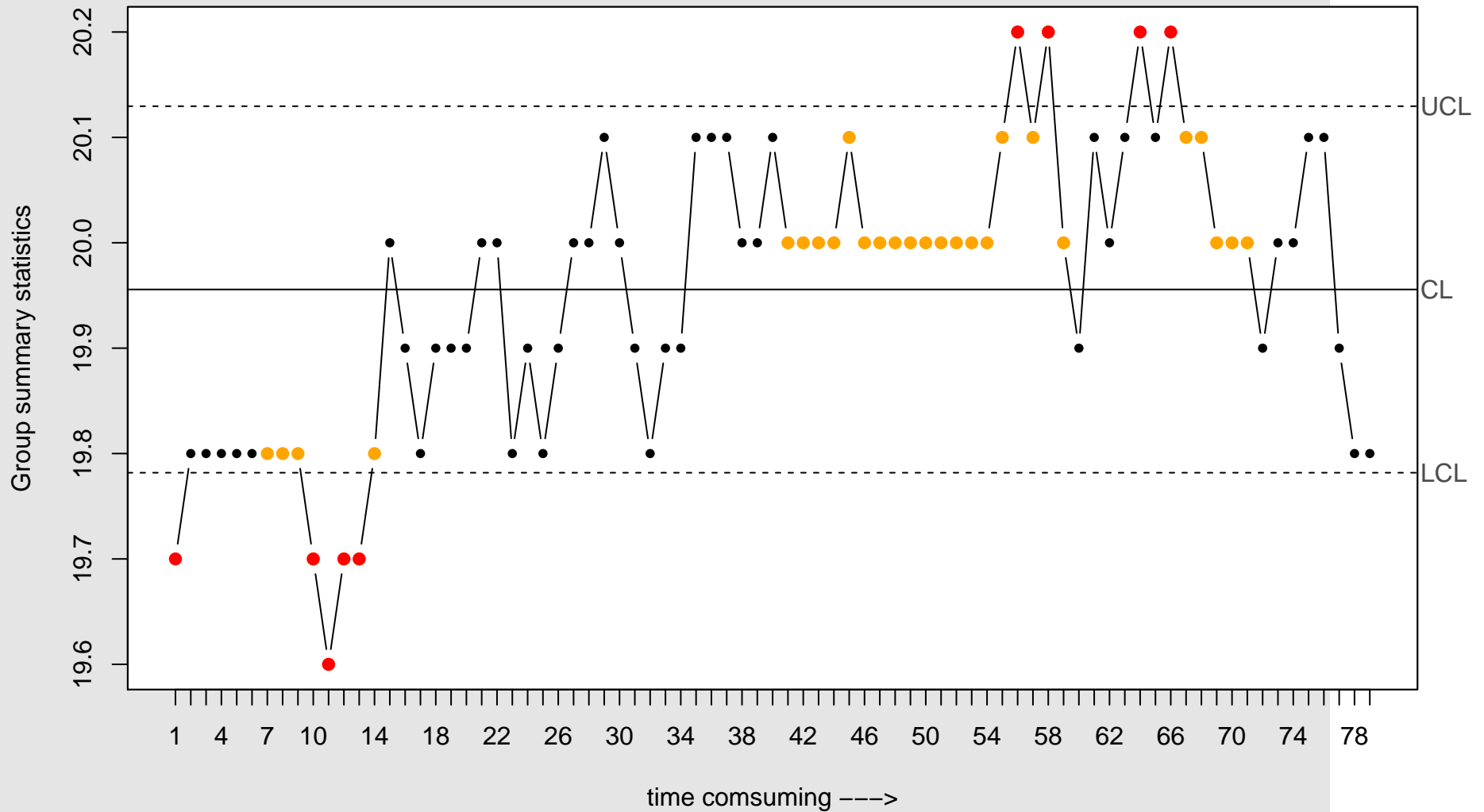


Number of groups = 79
Center = 19.99241
StdDev = 0.05682851

LCL = 19.82192
UCL = 20.16289

Number beyond limits = 14
Number violating runs = 24

163th column point of this product

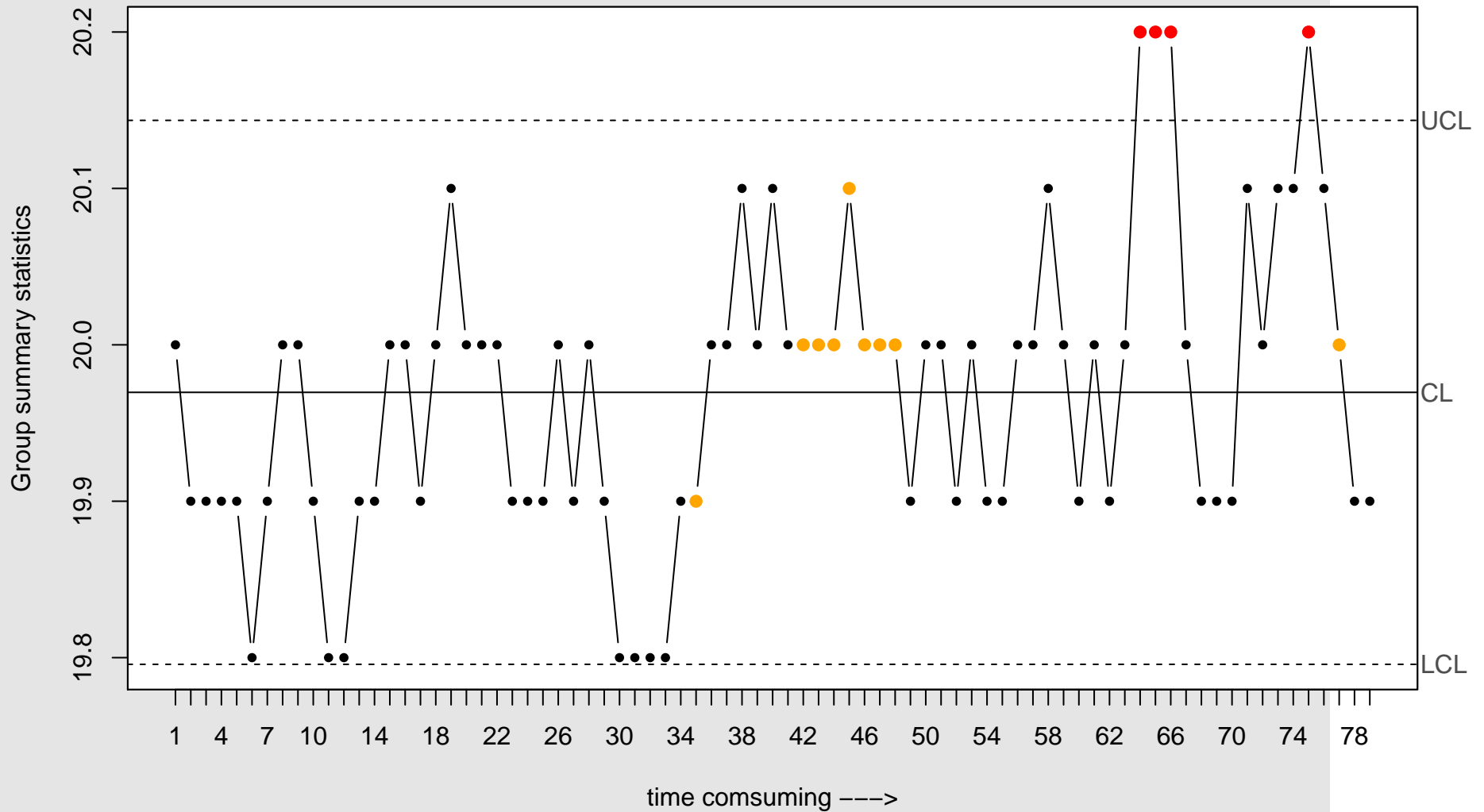


Number of groups = 79
 Center = 19.9557
 StdDev = 0.05796508

LCL = 19.7818
 UCL = 20.12959

Number beyond limits = 9
 Number violating runs = 32

164th column point of this product

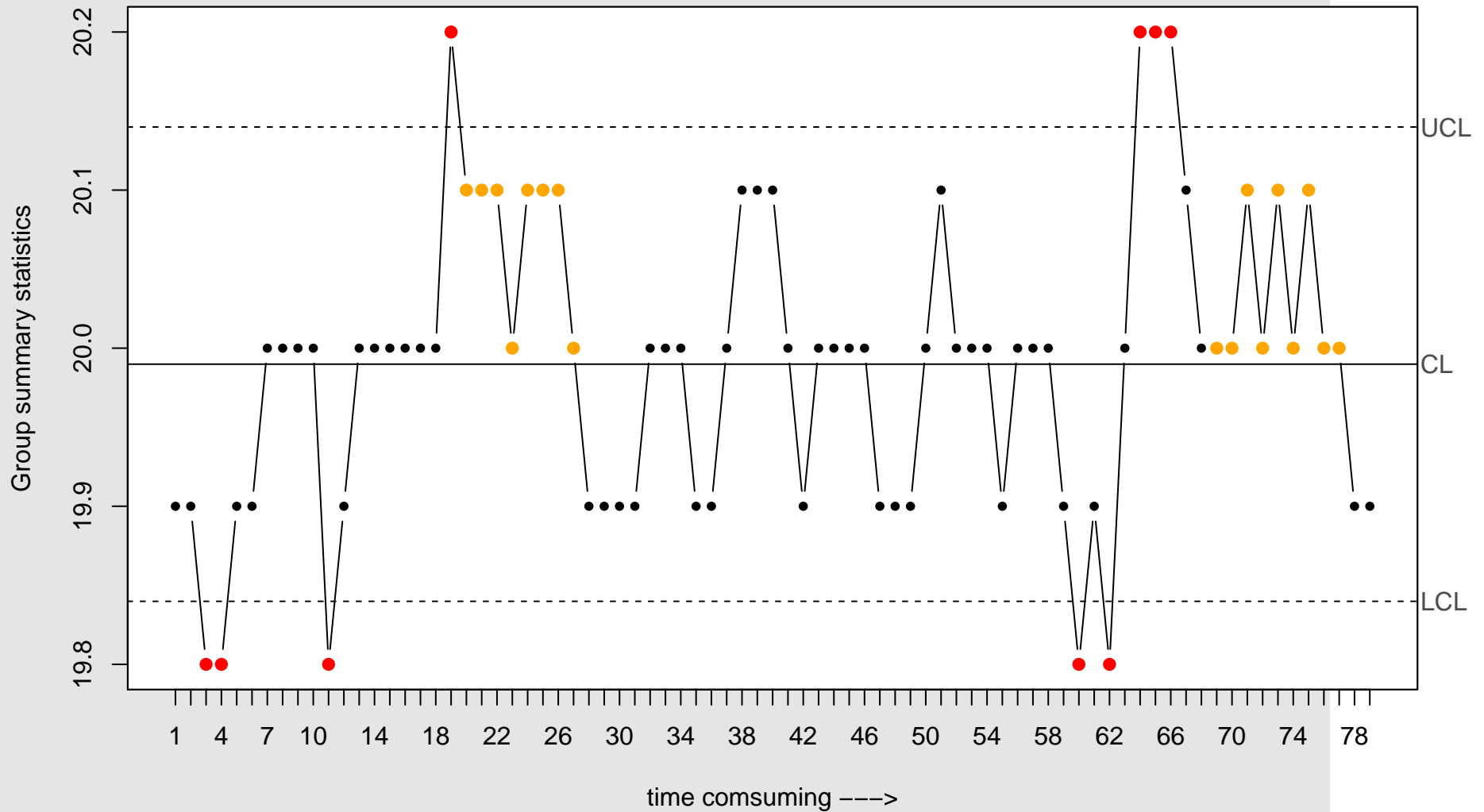


Number of groups = 79
 Center = 19.96962
 StdDev = 0.05796508

LCL = 19.79572
 UCL = 20.14352

Number beyond limits = 4
 Number violating runs = 9

165th column point of this product

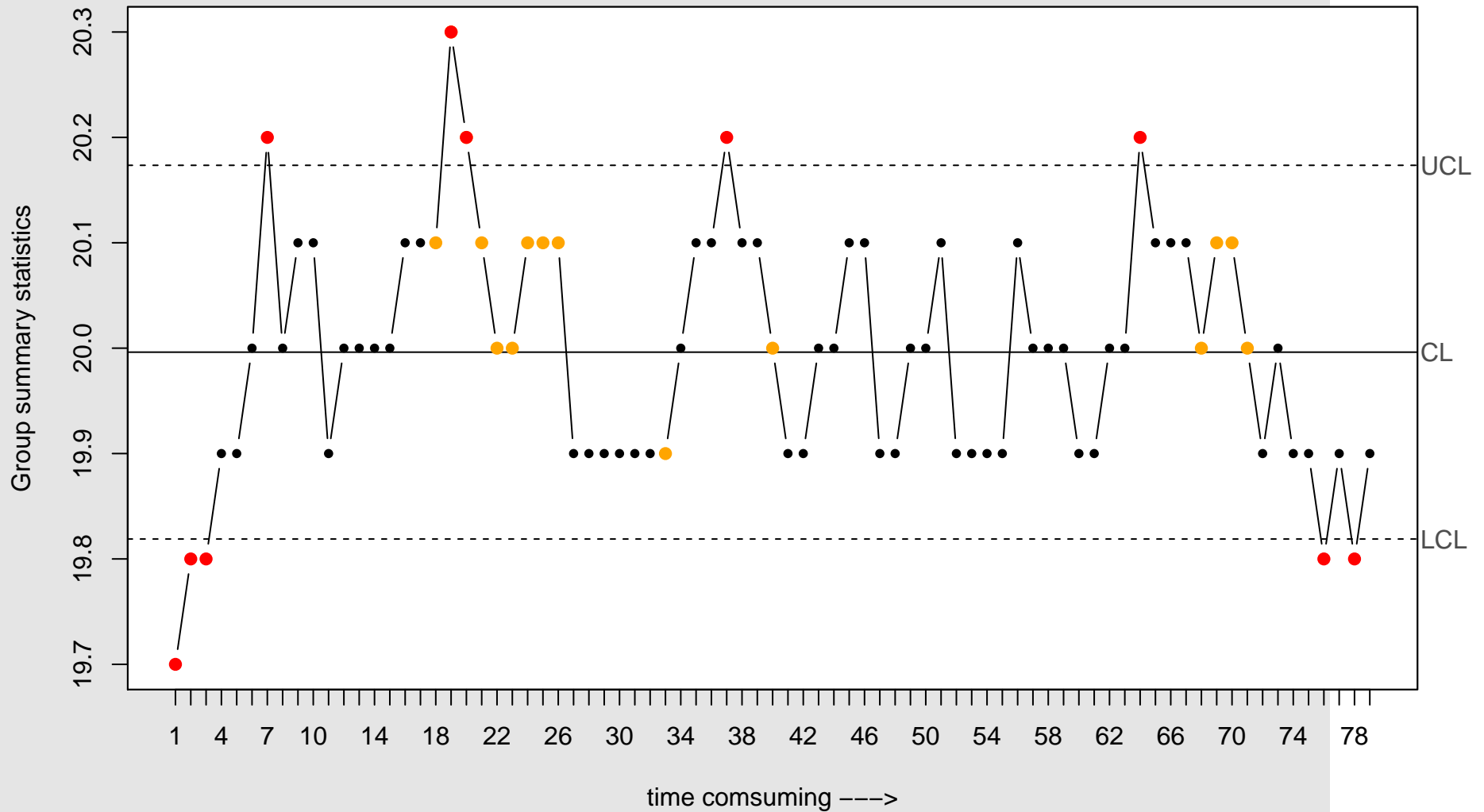


Number of groups = 79
 Center = 19.98987
 StdDev = 0.05000909

LCL = 19.83985
 UCL = 20.1399

Number beyond limits = 9
 Number violating runs = 18

166th column point of this product

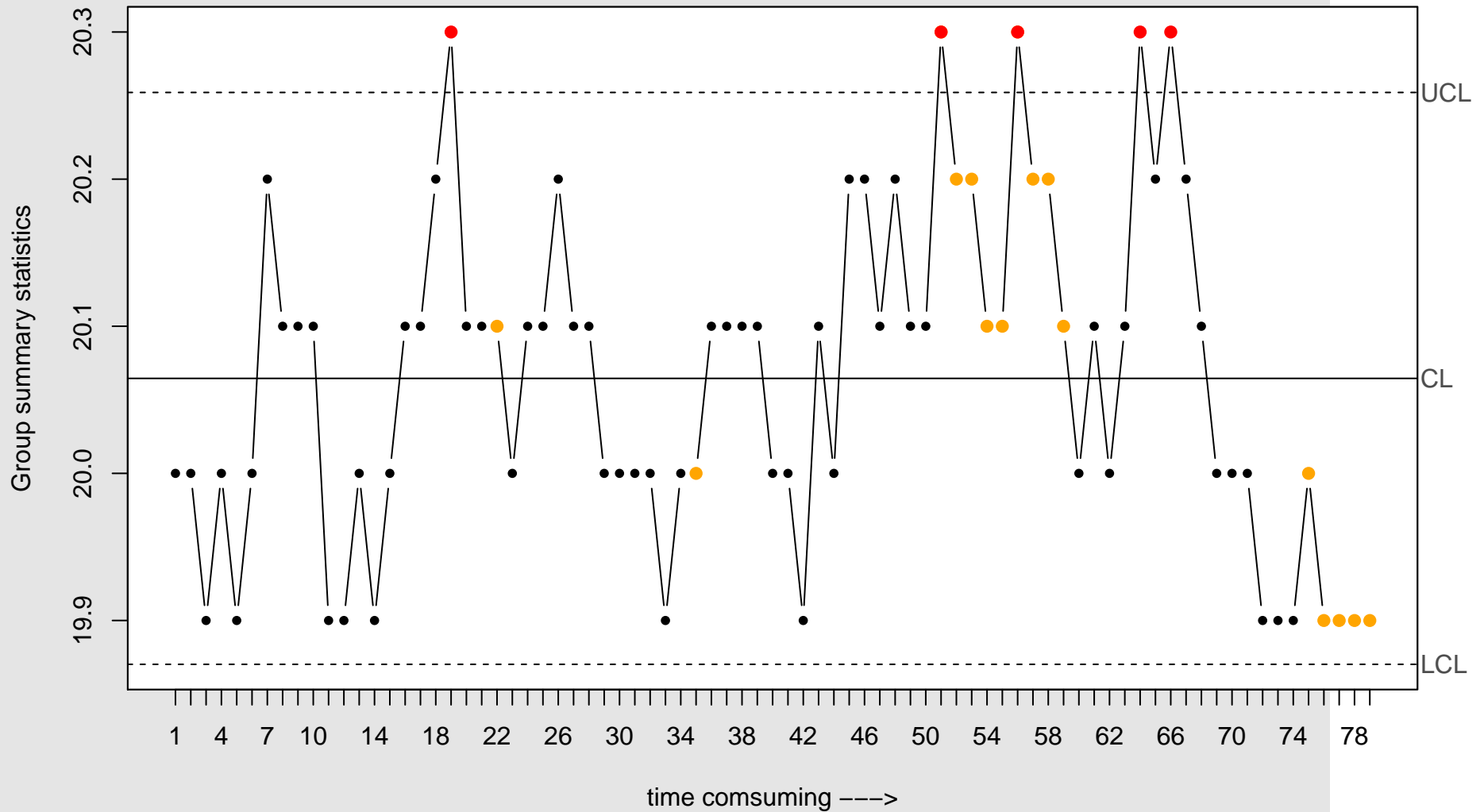


Number of groups = 79
Center = 19.9962
StdDev = 0.05910165

LCL = 19.8189
UCL = 20.17351

Number beyond limits = 10
Number violating runs = 15

167th column point of this product

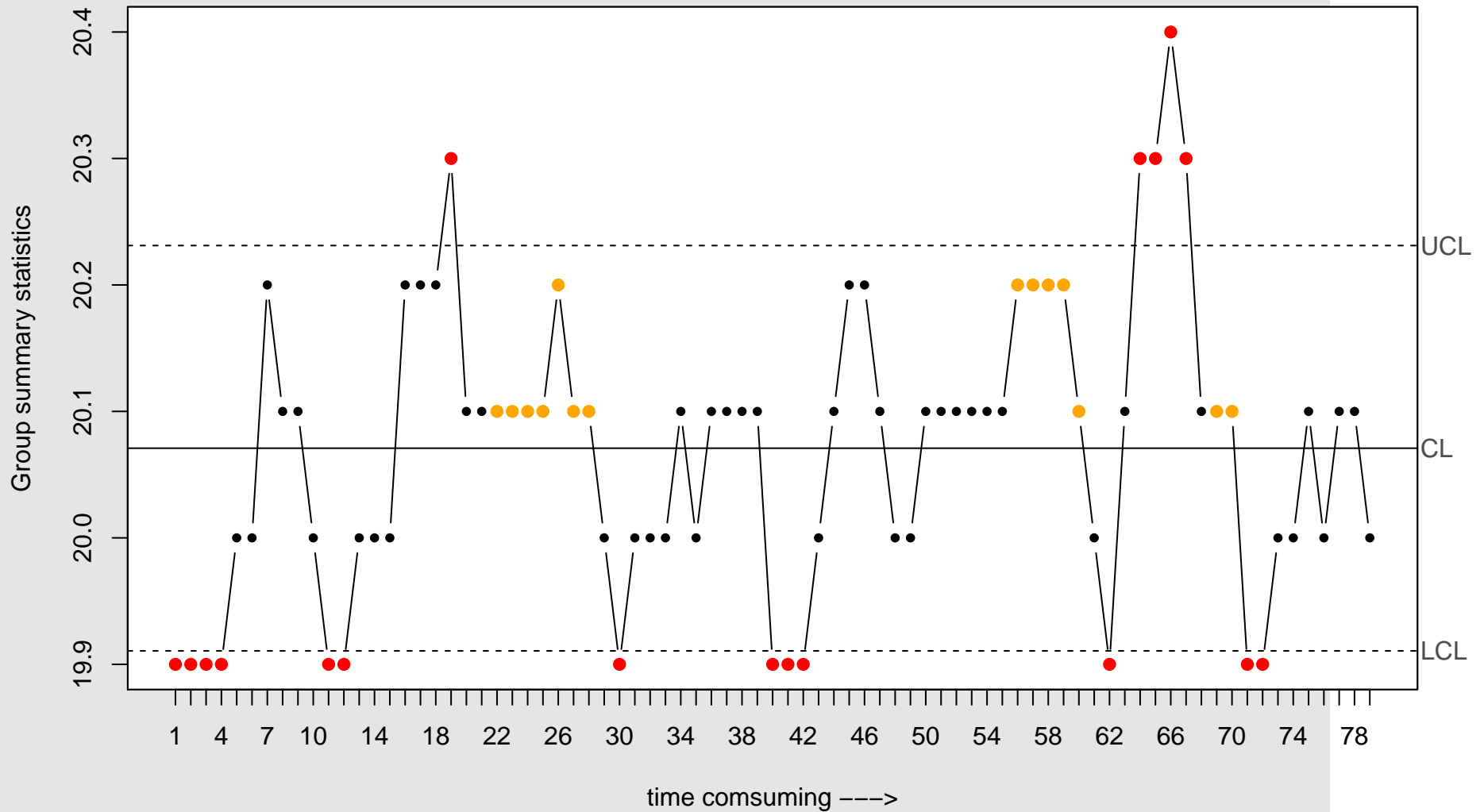


Number of groups = 79
 Center = 20.06456
 StdDev = 0.06478451

LCL = 19.8702
 UCL = 20.25891

Number beyond limits = 5
 Number violating runs = 16

168th column point of this product

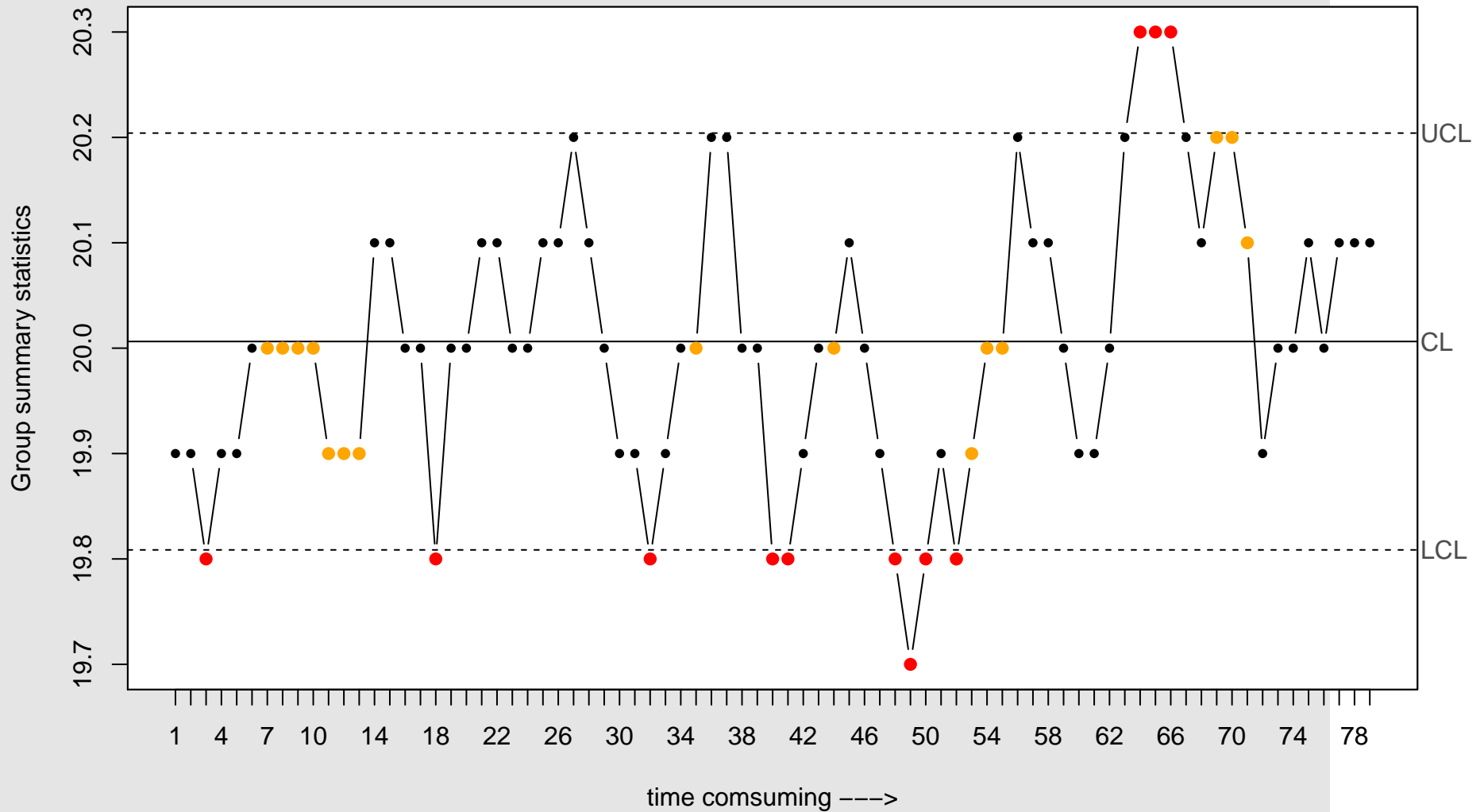


Number of groups = 79
Center = 20.07089
StdDev = 0.0534188

LCL = 19.91063
UCL = 20.23114

Number beyond limits = 18
Number violating runs = 14

169th column point of this product

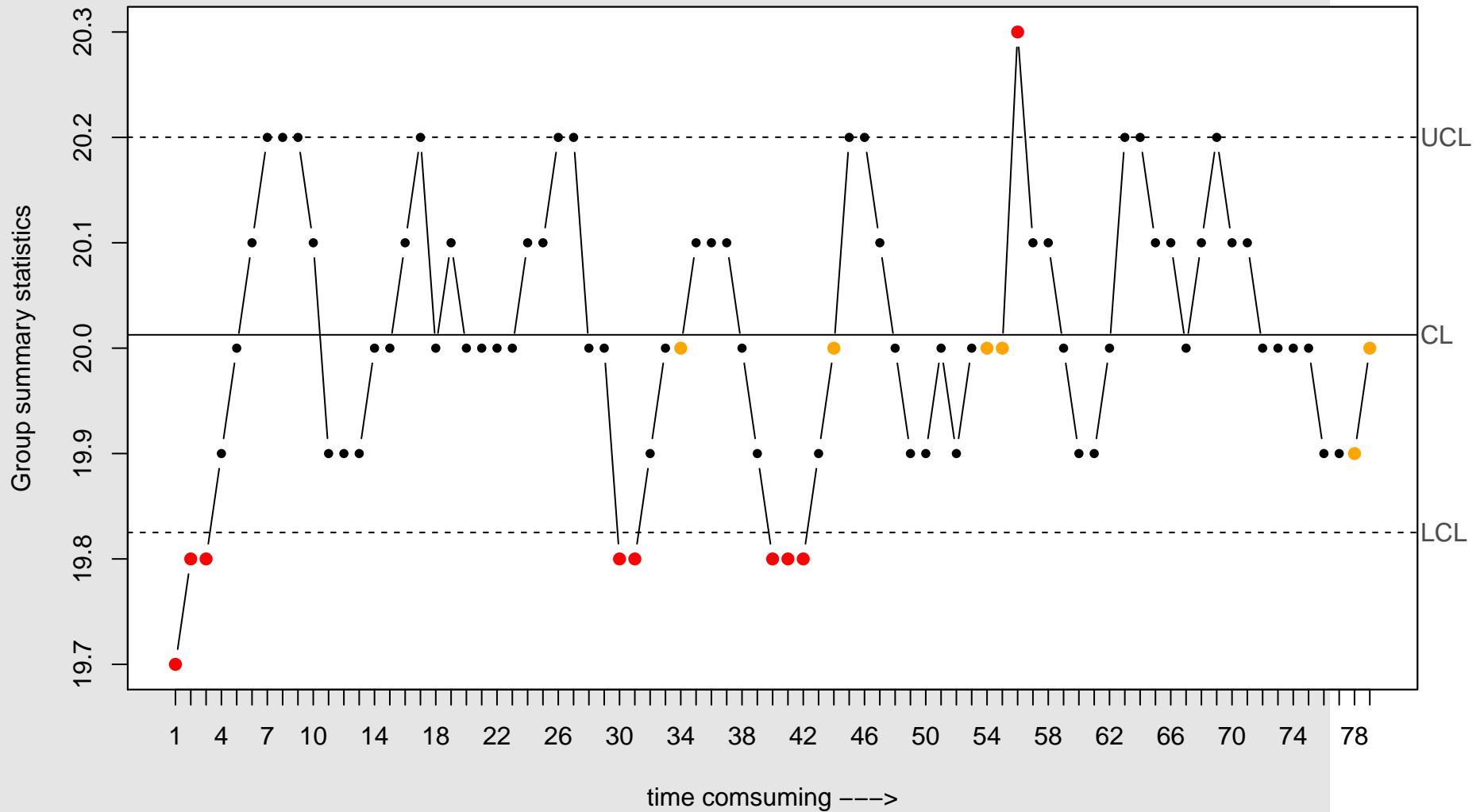


Number of groups = 79
 Center = 20.00633
 StdDev = 0.06592108

LCL = 19.80857
 UCL = 20.20409

Number beyond limits = 12
 Number violating runs = 16

170th column point of this product

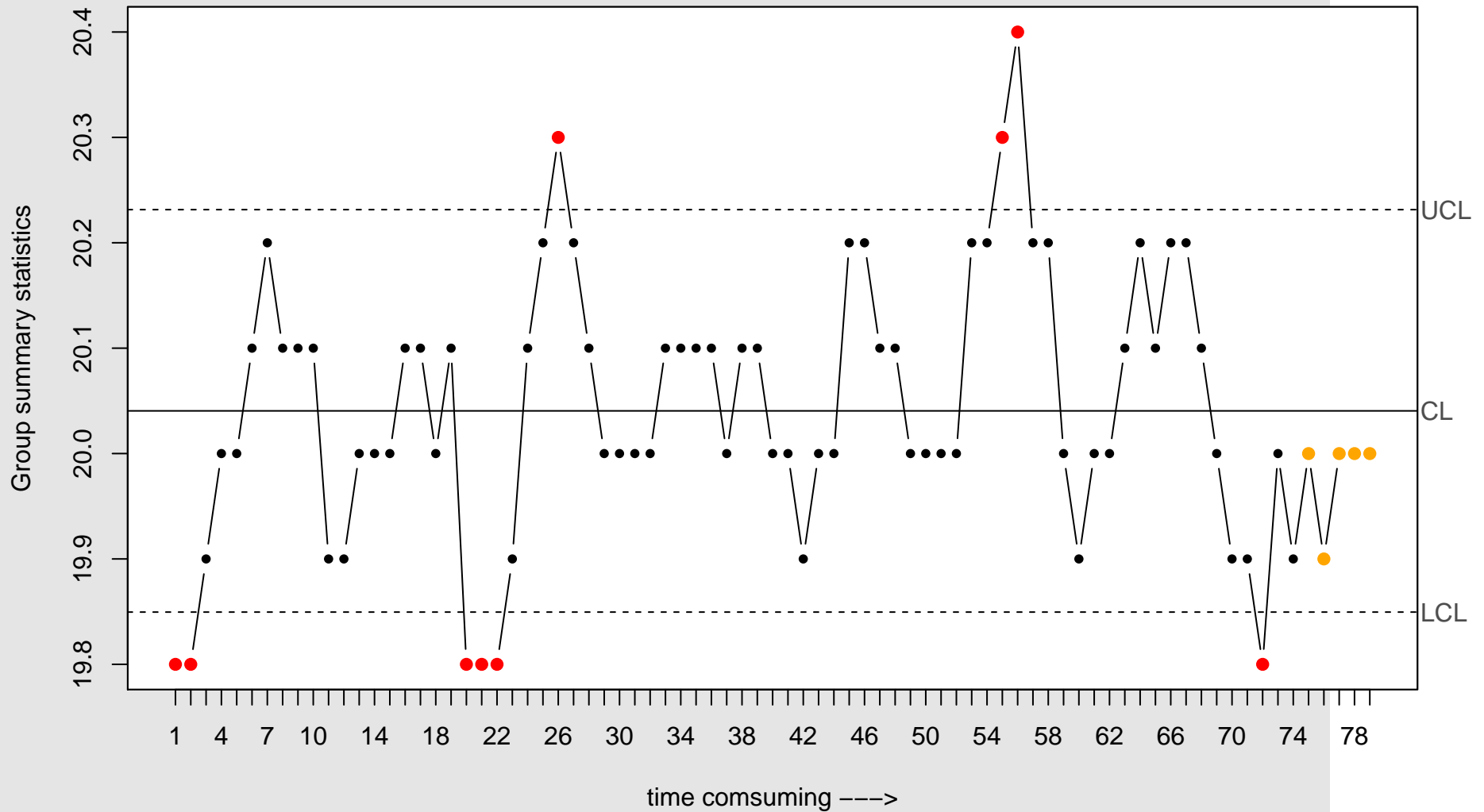


Number of groups = 79
Center = 20.01266
StdDev = 0.06251137

LCL = 19.82512
UCL = 20.20019

Number beyond limits = 9
Number violating runs = 6

171th column point of this product

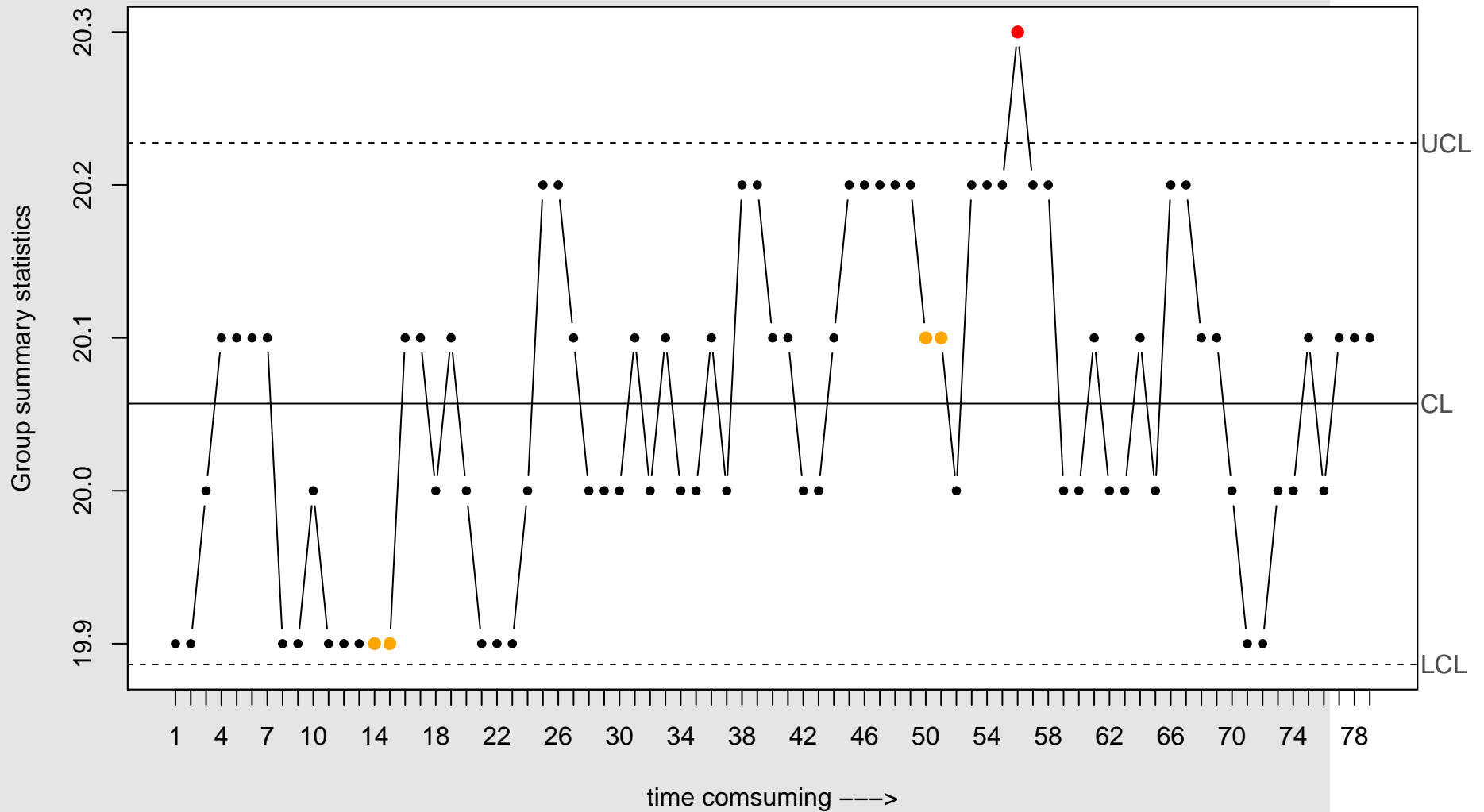


Number of groups = 79
 Center = 20.04051
 StdDev = 0.06364794

LCL = 19.84956
 UCL = 20.23145

Number beyond limits = 9
 Number violating runs = 5

172th column point of this product

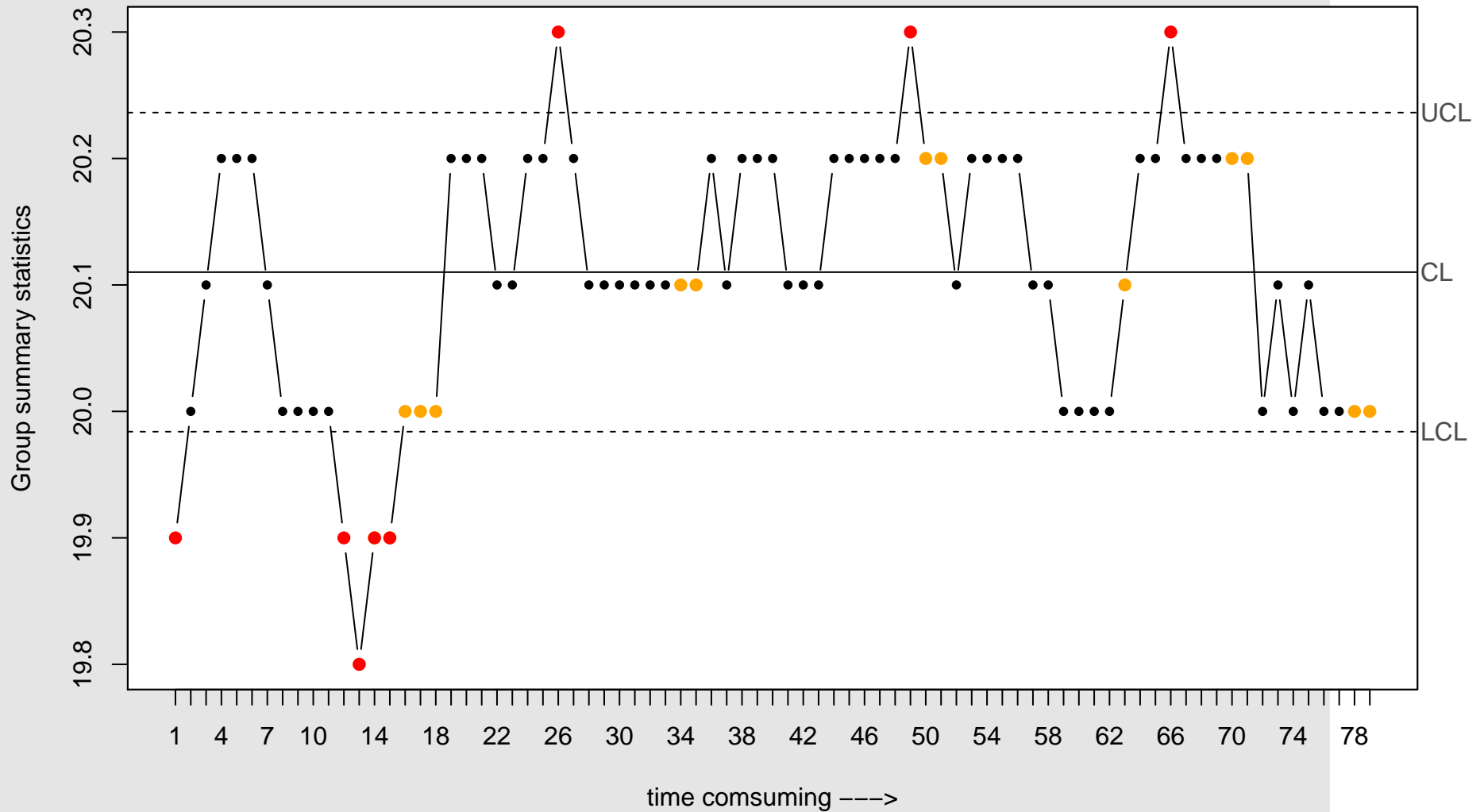


Number of groups = 79
 Center = 20.05696
 StdDev = 0.05682851

LCL = 19.88648
 UCL = 20.22745

Number beyond limits = 1
 Number violating runs = 4

173th column point of this product

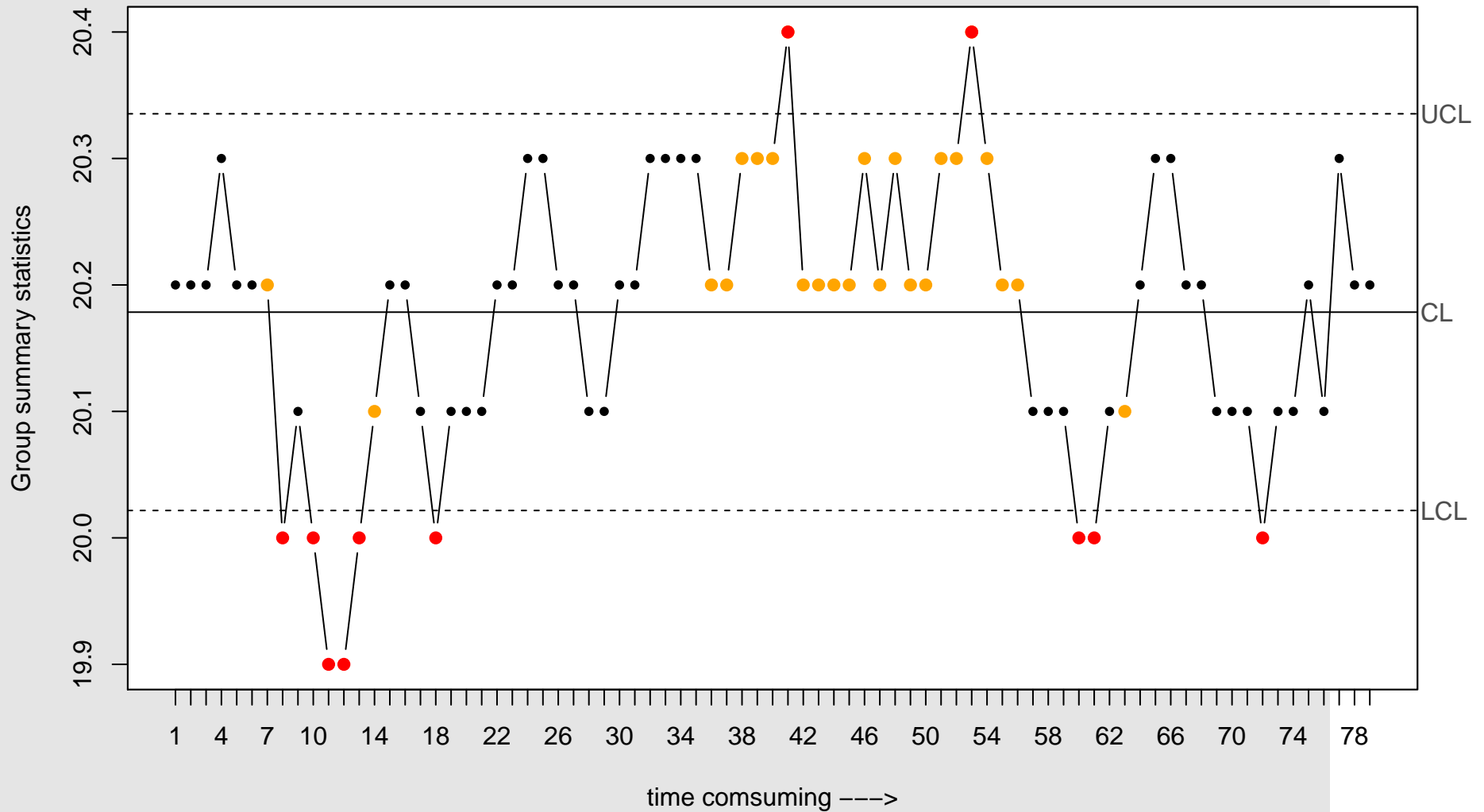


Number of groups = 79
Center = 20.11013
StdDev = 0.0420531

LCL = 19.98397
UCL = 20.23629

Number beyond limits = 8
Number violating runs = 15

174th column point of this product

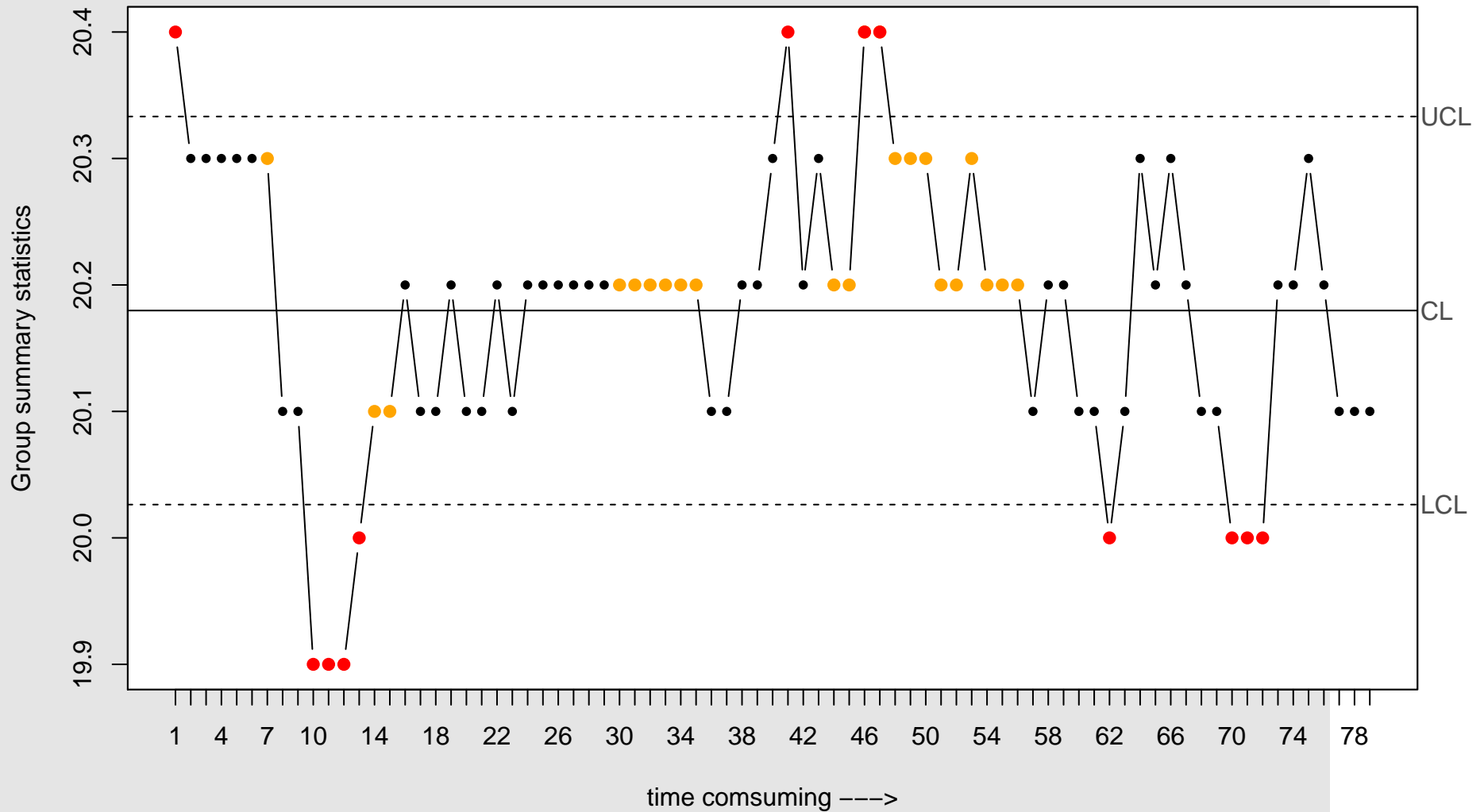


Number of groups = 79
Center = 20.17848
StdDev = 0.05228223

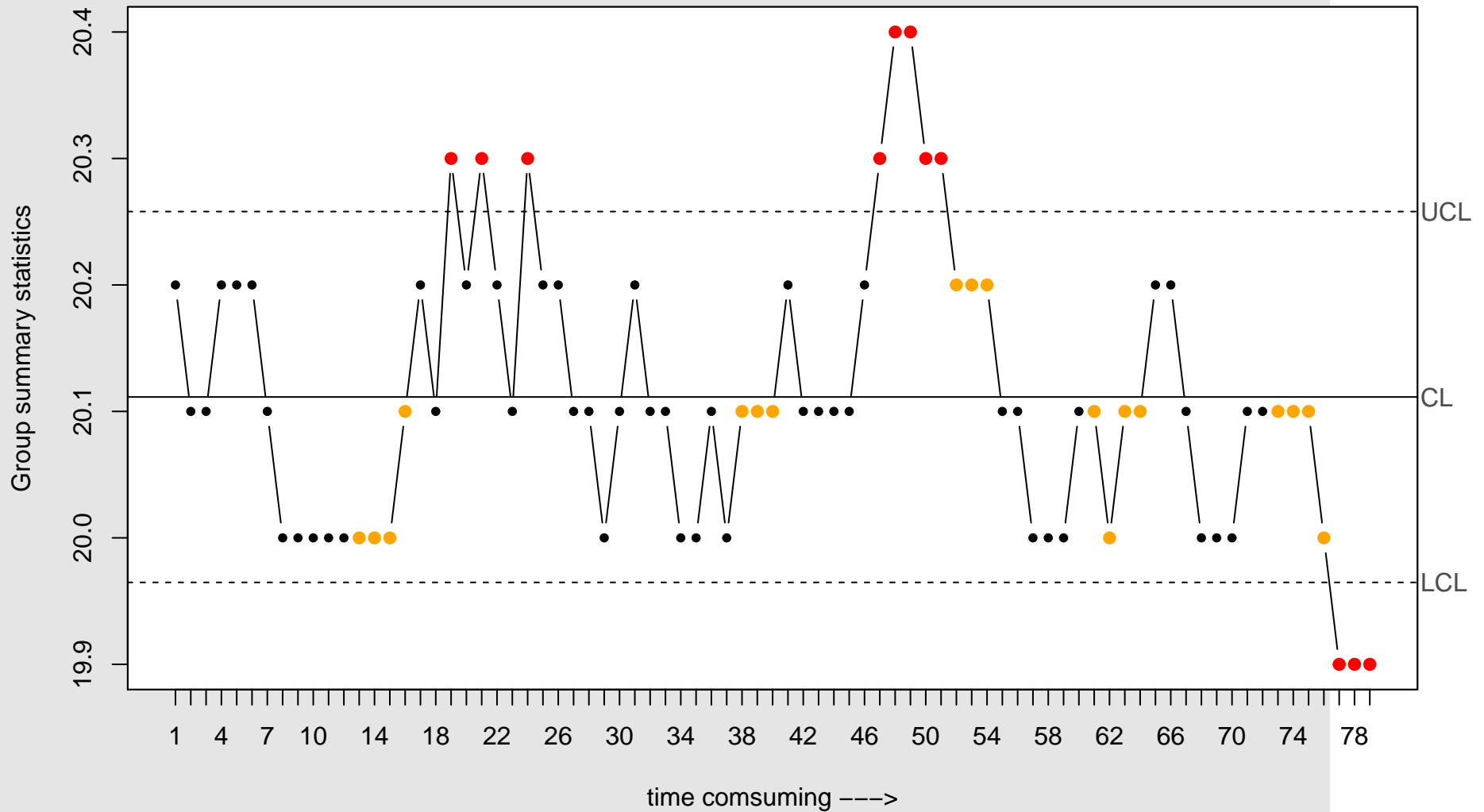
LCL = 20.02163
UCL = 20.33533

Number beyond limits = 11
Number violating runs = 24

175th column point of this product



176th column point of this product



Number of groups = 79

Center = 20.11139

StdDev = 0.04887252

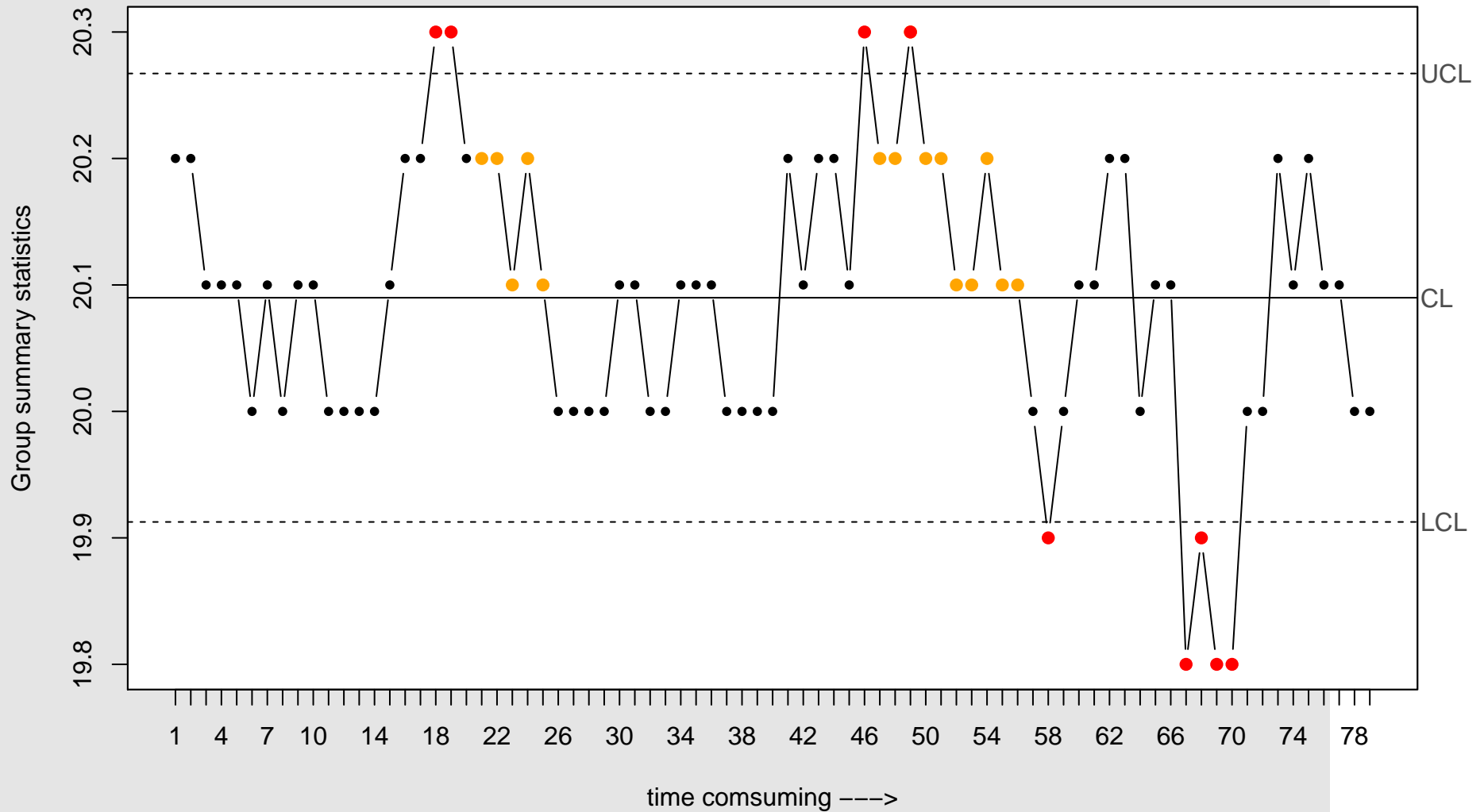
LCL = 19.96477

UCL = 20.25801

Number beyond limits = 11

Number violating runs = 21

177th column point of this product

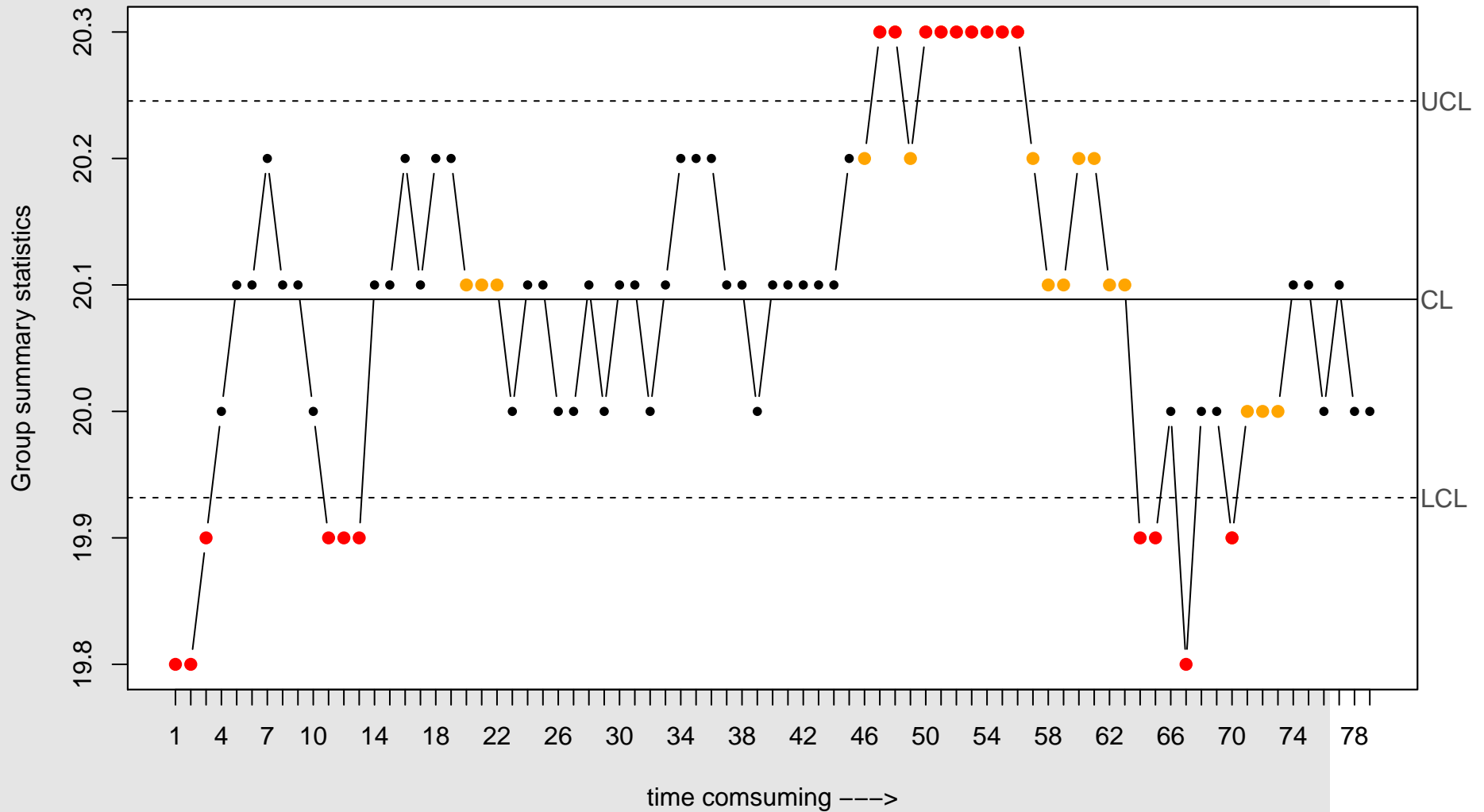


Number of groups = 79
 Center = 20.08987
 StdDev = 0.05910165

LCL = 19.91257
 UCL = 20.26718

Number beyond limits = 9
 Number violating runs = 15

178th column point of this product

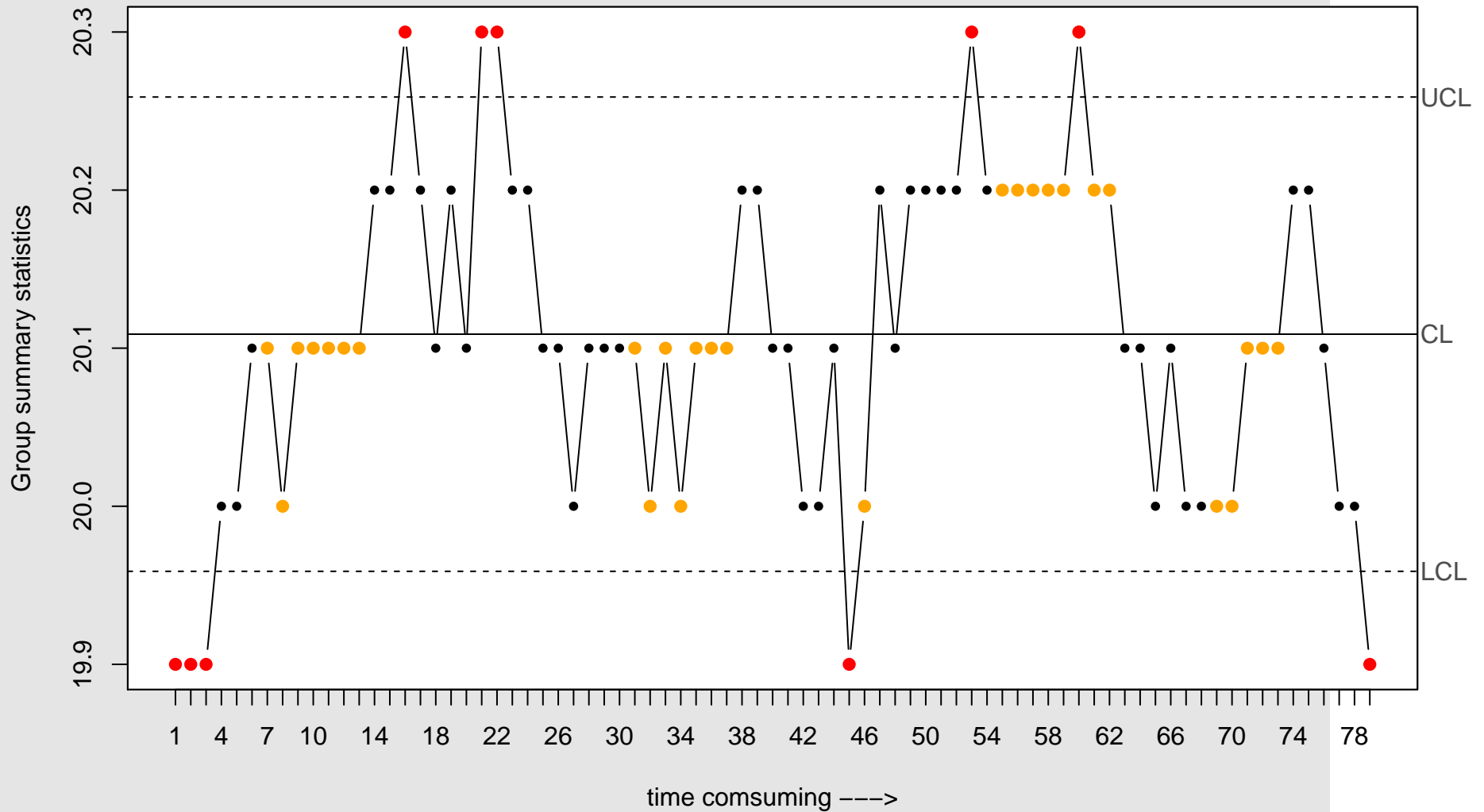


Number of groups = 79
 Center = 20.08861
 StdDev = 0.05228223

LCL = 19.93176
 UCL = 20.24545

Number beyond limits = 19
 Number violating runs = 25

179th column point of this product

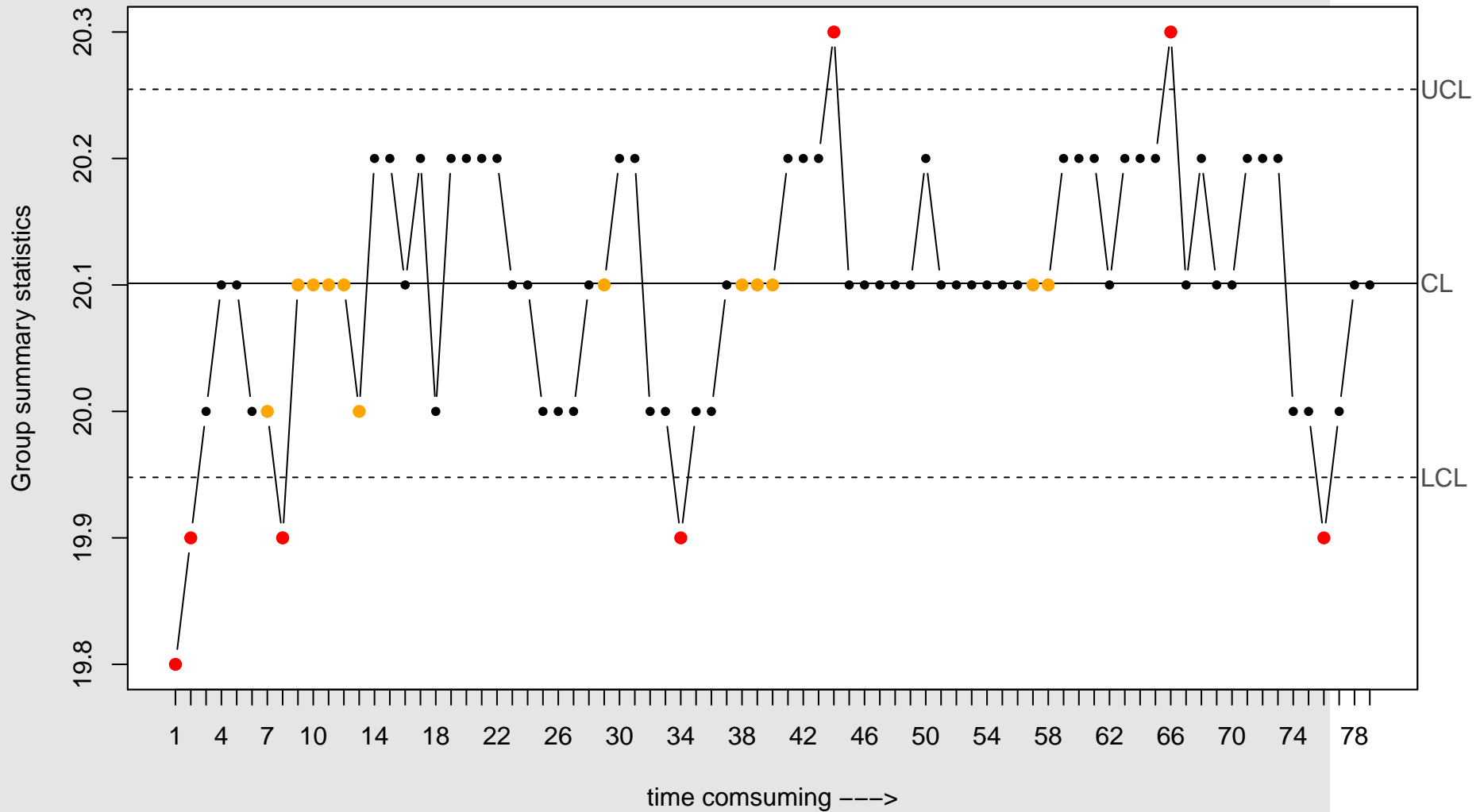


Number of groups = 79
Center = 20.10886
StdDev = 0.05000909

LCL = 19.95883
UCL = 20.25889

Number beyond limits = 10
Number violating runs = 28

180th column point of this product

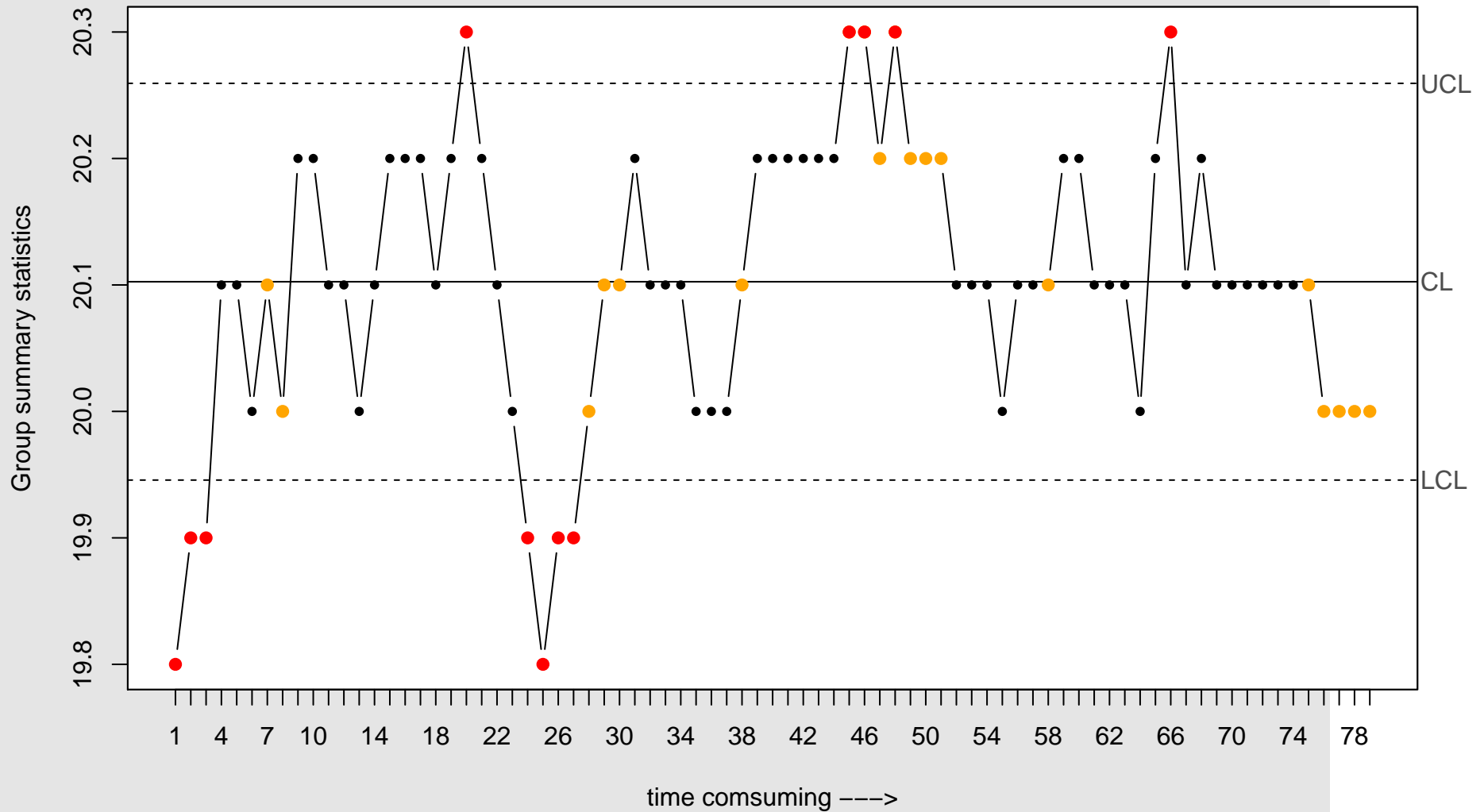


Number of groups = 79
Center = 20.10127
StdDev = 0.05114566

LCL = 19.94783
UCL = 20.2547

Number beyond limits = 7
Number violating runs = 13

181th column point of this product

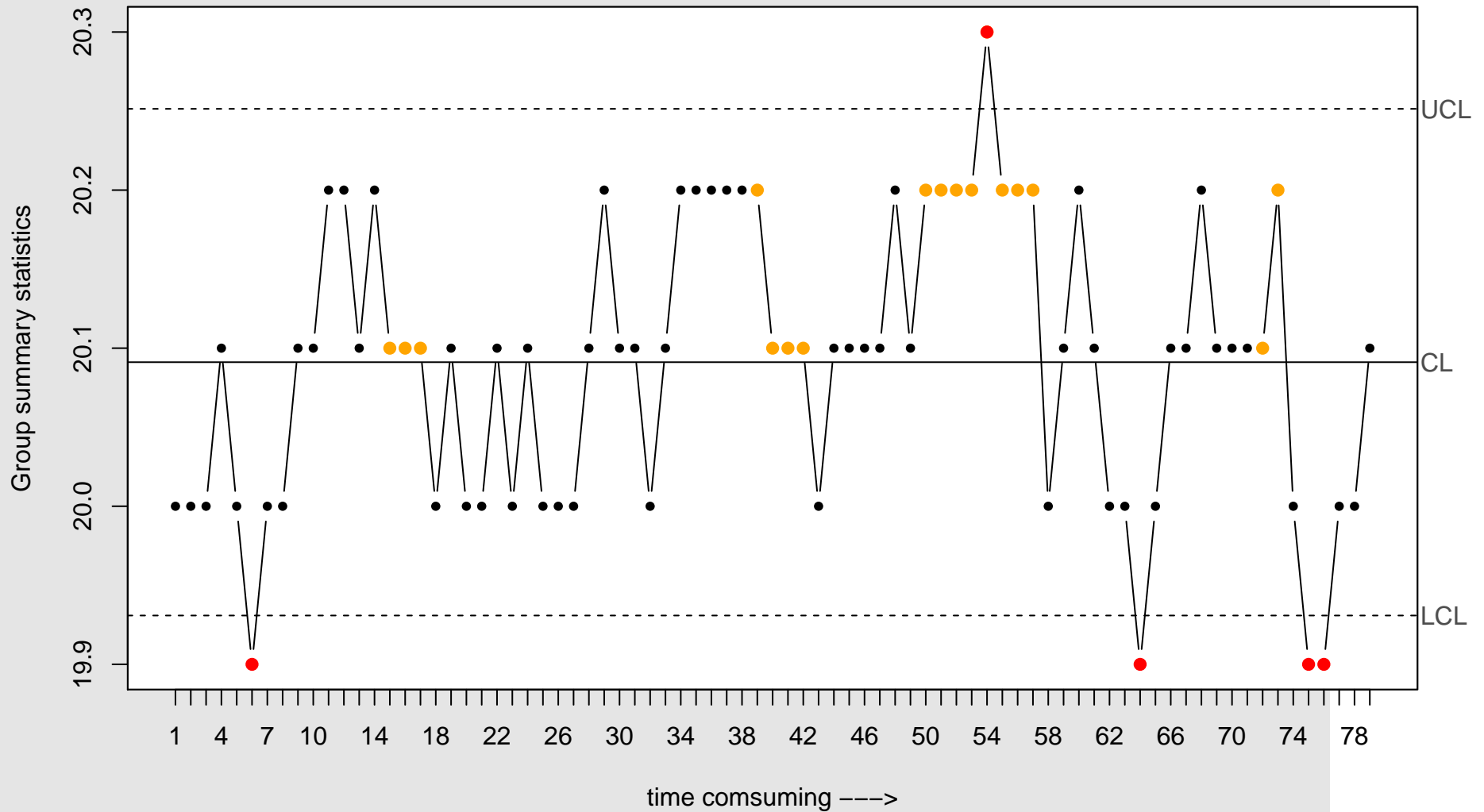


Number of groups = 79
 Center = 20.10253
 StdDev = 0.05228223

LCL = 19.94568
 UCL = 20.25938

Number beyond limits = 12
 Number violating runs = 19

182th column point of this product



Number of groups = 79

Center = 20.09114

StdDev = 0.0534188

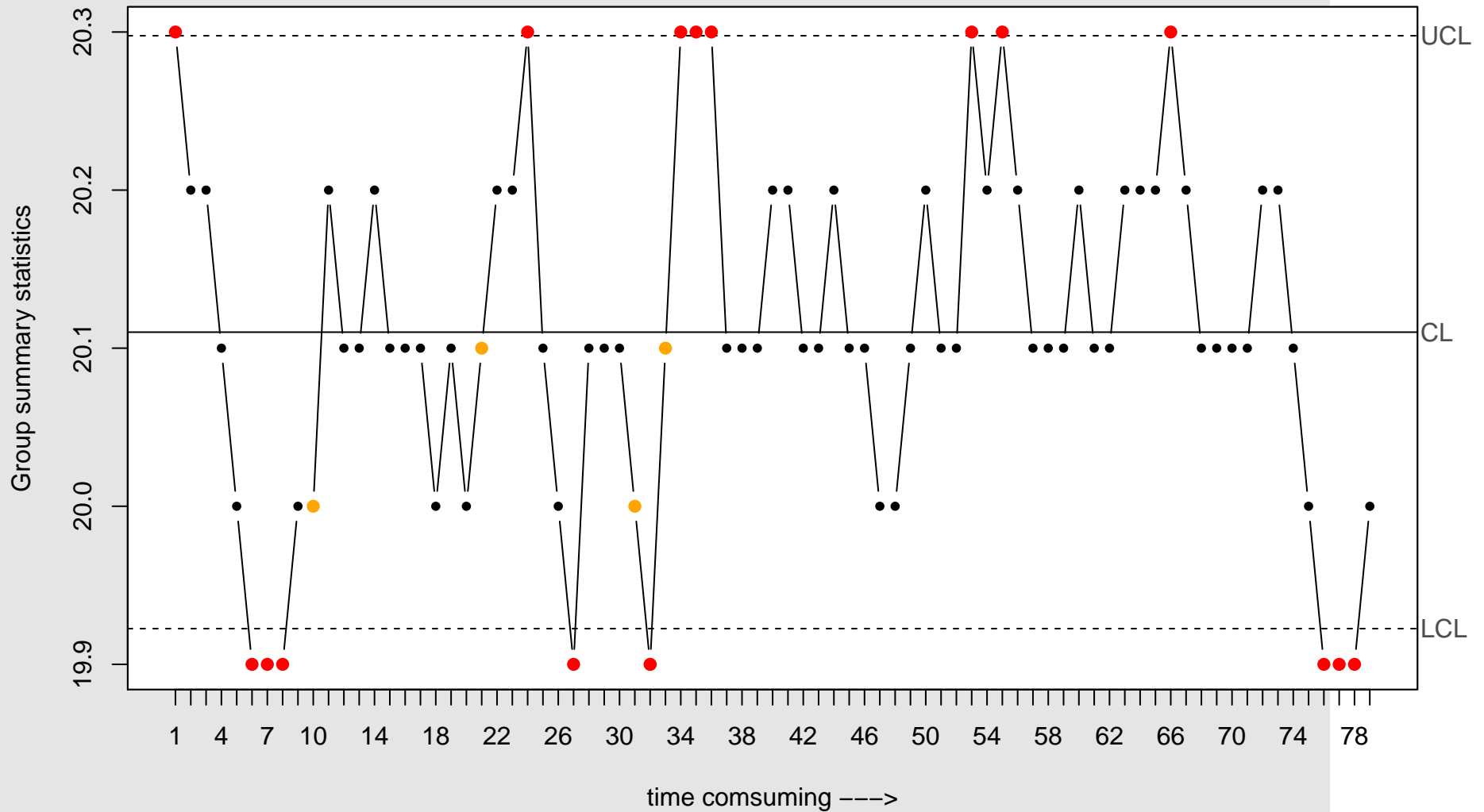
LCL = 19.93088

UCL = 20.2514

Number beyond limits = 5

Number violating runs = 17

183th column point of this product

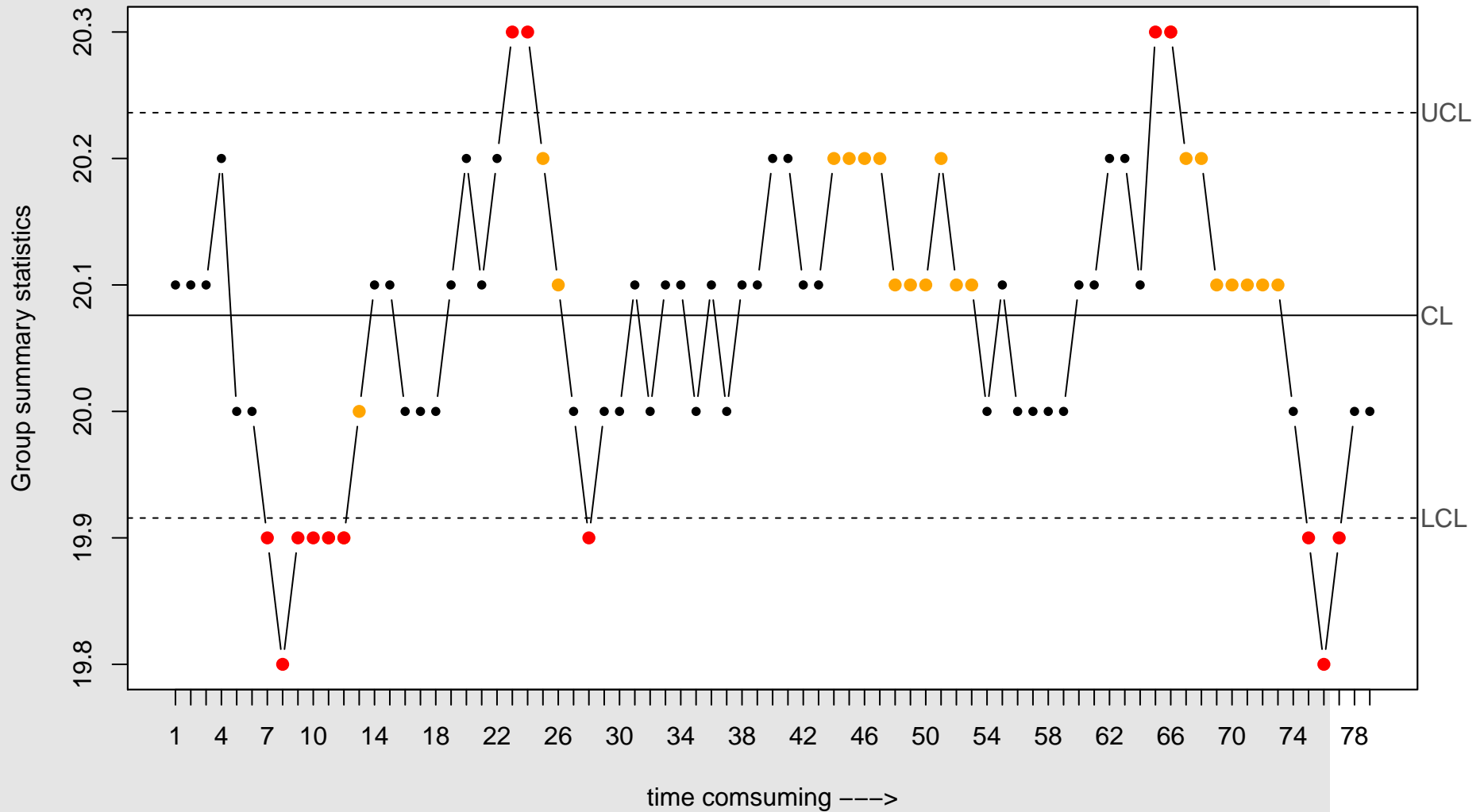


Number of groups = 79
Center = 20.11013
StdDev = 0.06251137

LCL = 19.92259
UCL = 20.29766

Number beyond limits = 16
Number violating runs = 5

184th column point of this product



Number of groups = 79

Center = 20.07595

StdDev = 0.0534188

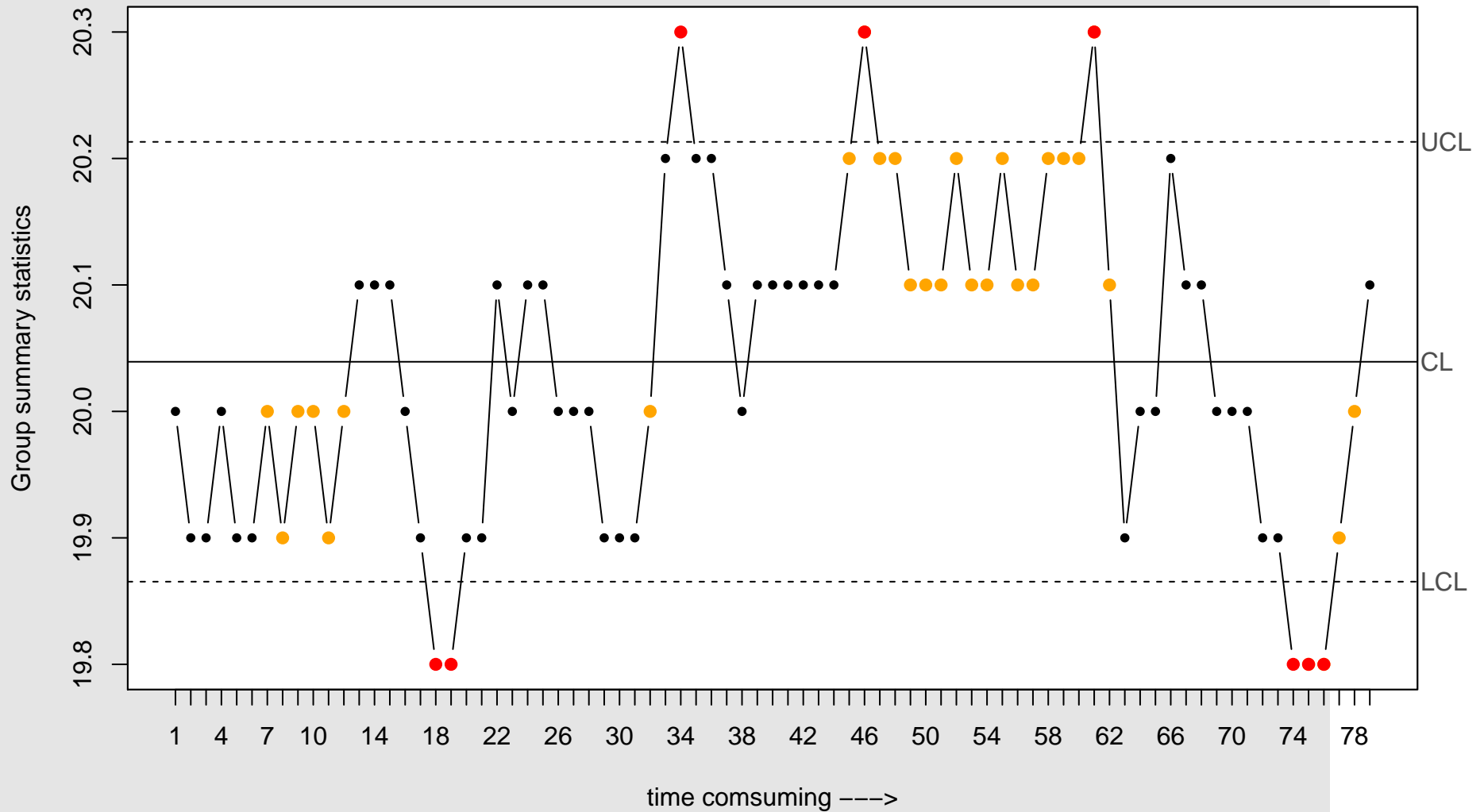
LCL = 19.91569

UCL = 20.23621

Number beyond limits = 14

Number violating runs = 23

185th column point of this product

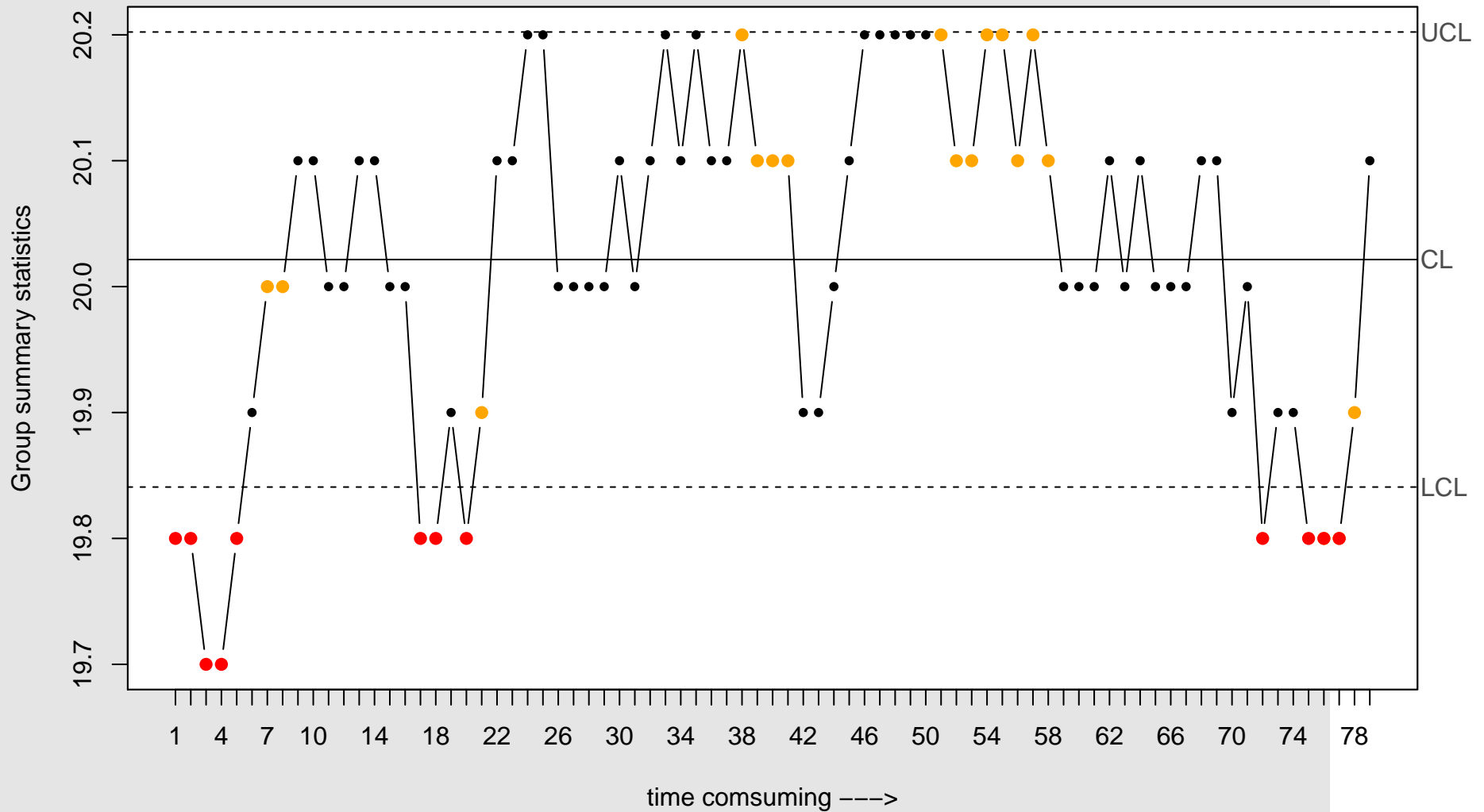


Number of groups = 79
 Center = 20.03924
 StdDev = 0.05796508

LCL = 19.86535
 UCL = 20.21314

Number beyond limits = 8
 Number violating runs = 29

186th column point of this product

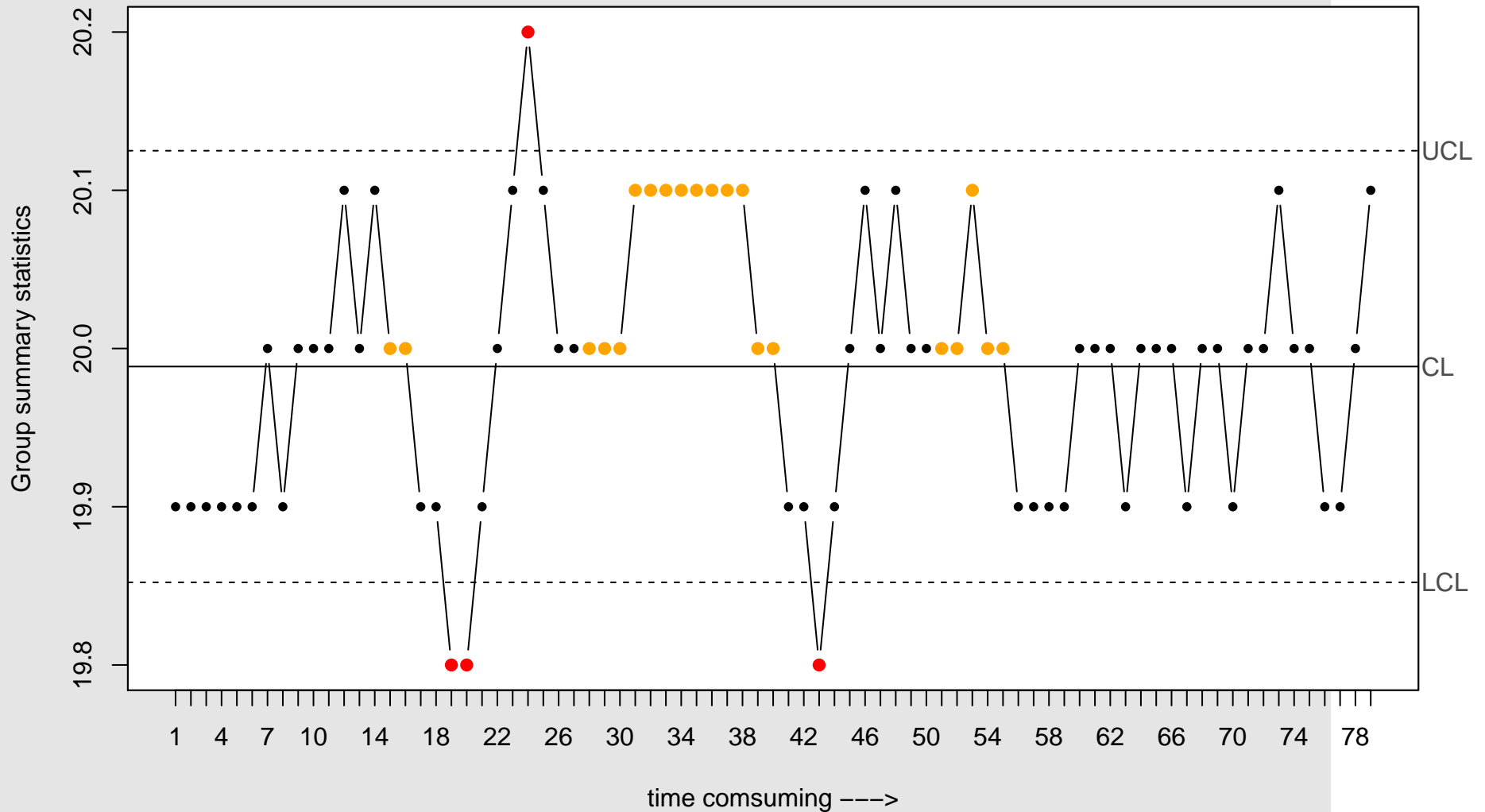


Number of groups = 79
 Center = 20.02152
 StdDev = 0.06023823

LCL = 19.8408
 UCL = 20.20223

Number beyond limits = 12
 Number violating runs = 18

187th column point of this product

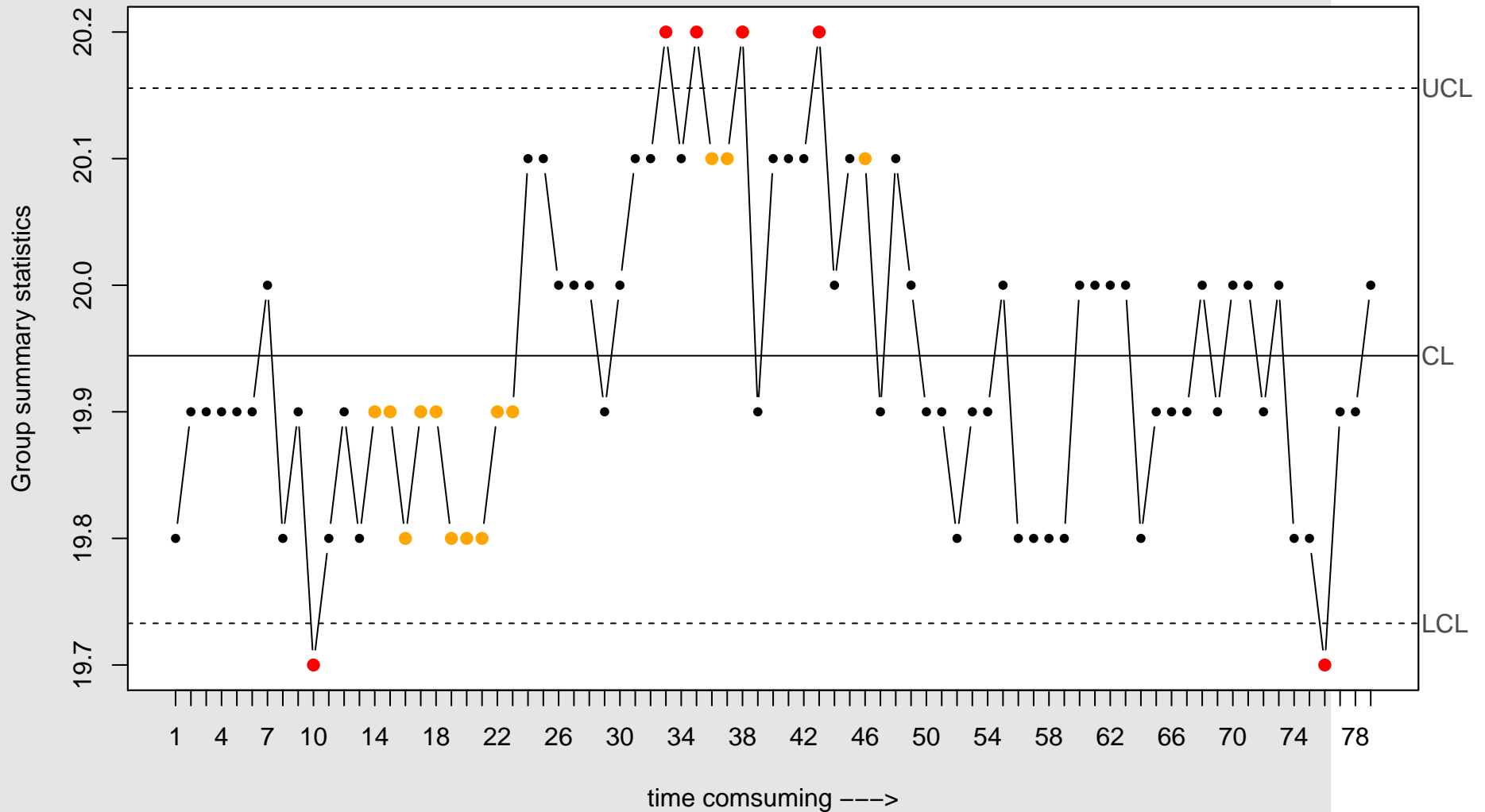


Number of groups = 79
 Center = 19.98861
 StdDev = 0.04546281

LCL = 19.85222
 UCL = 20.125

Number beyond limits = 4
 Number violating runs = 20

188th column point of this product

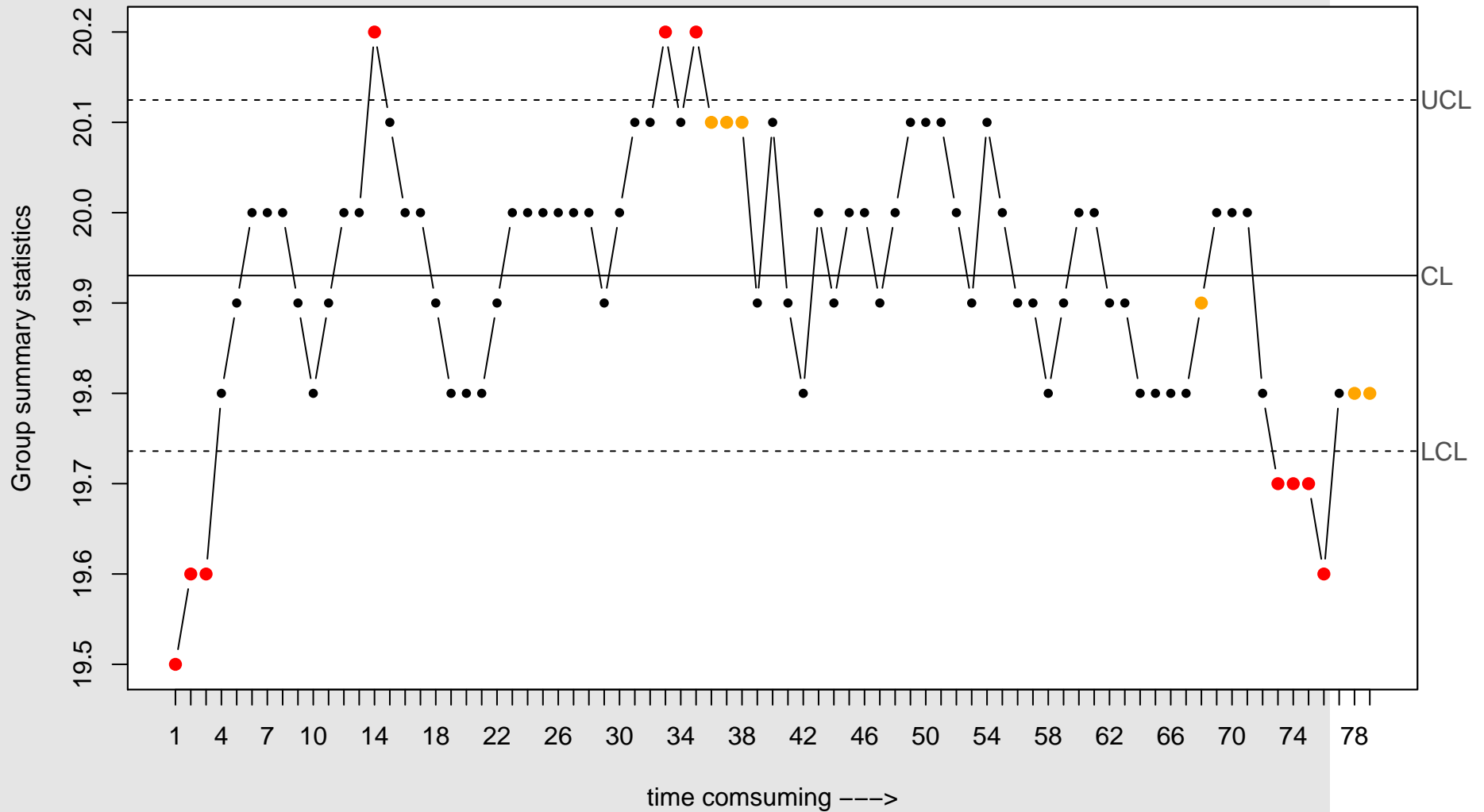


Number of groups = 79
 Center = 19.9443
 StdDev = 0.07046736

LCL = 19.7329
 UCL = 20.15571

Number beyond limits = 6
 Number violating runs = 14

189th column point of this product

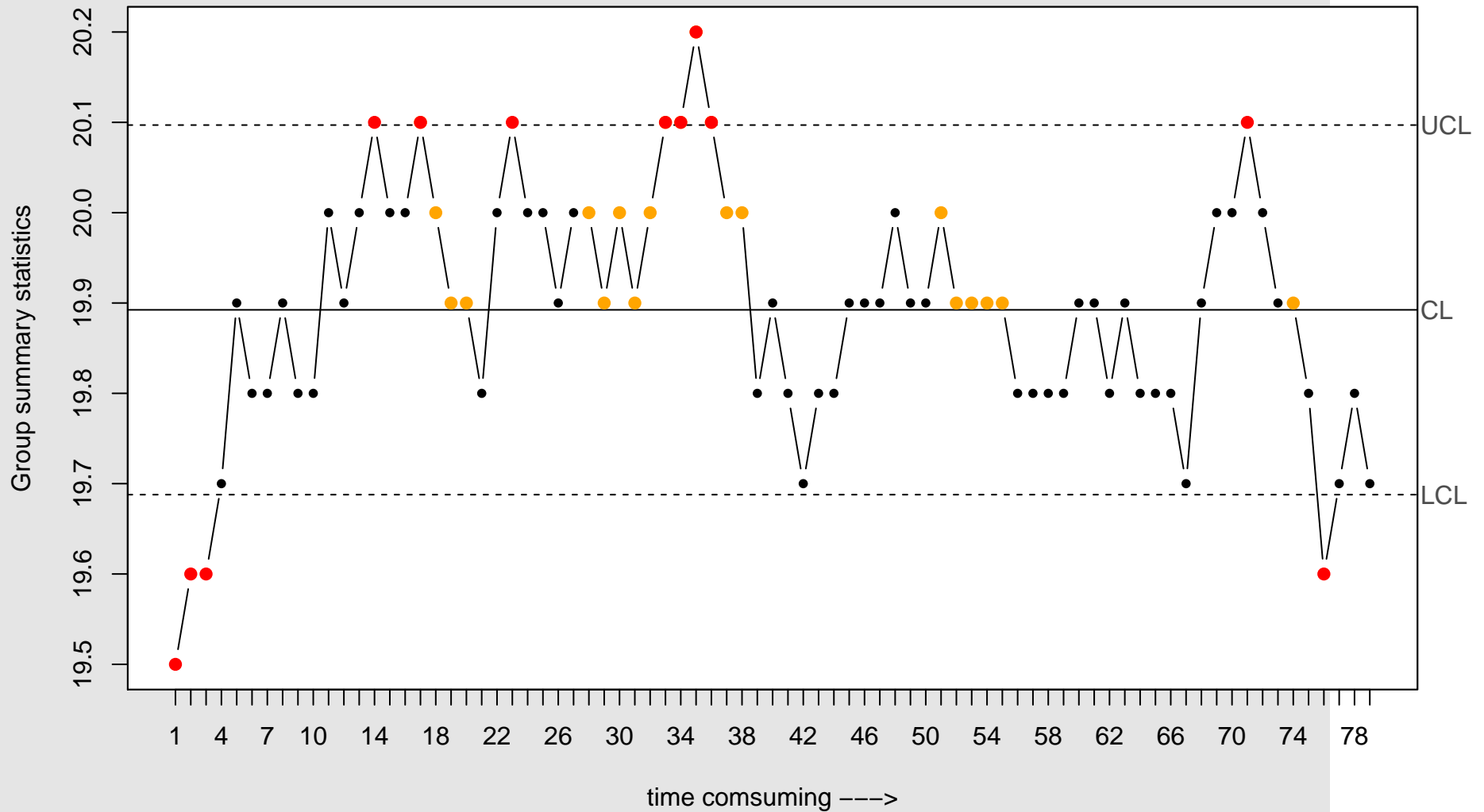


Number of groups = 79
 Center = 19.93038
 StdDev = 0.06478451

LCL = 19.73603
 UCL = 20.12473

Number beyond limits = 10
 Number violating runs = 6

190th column point of this product

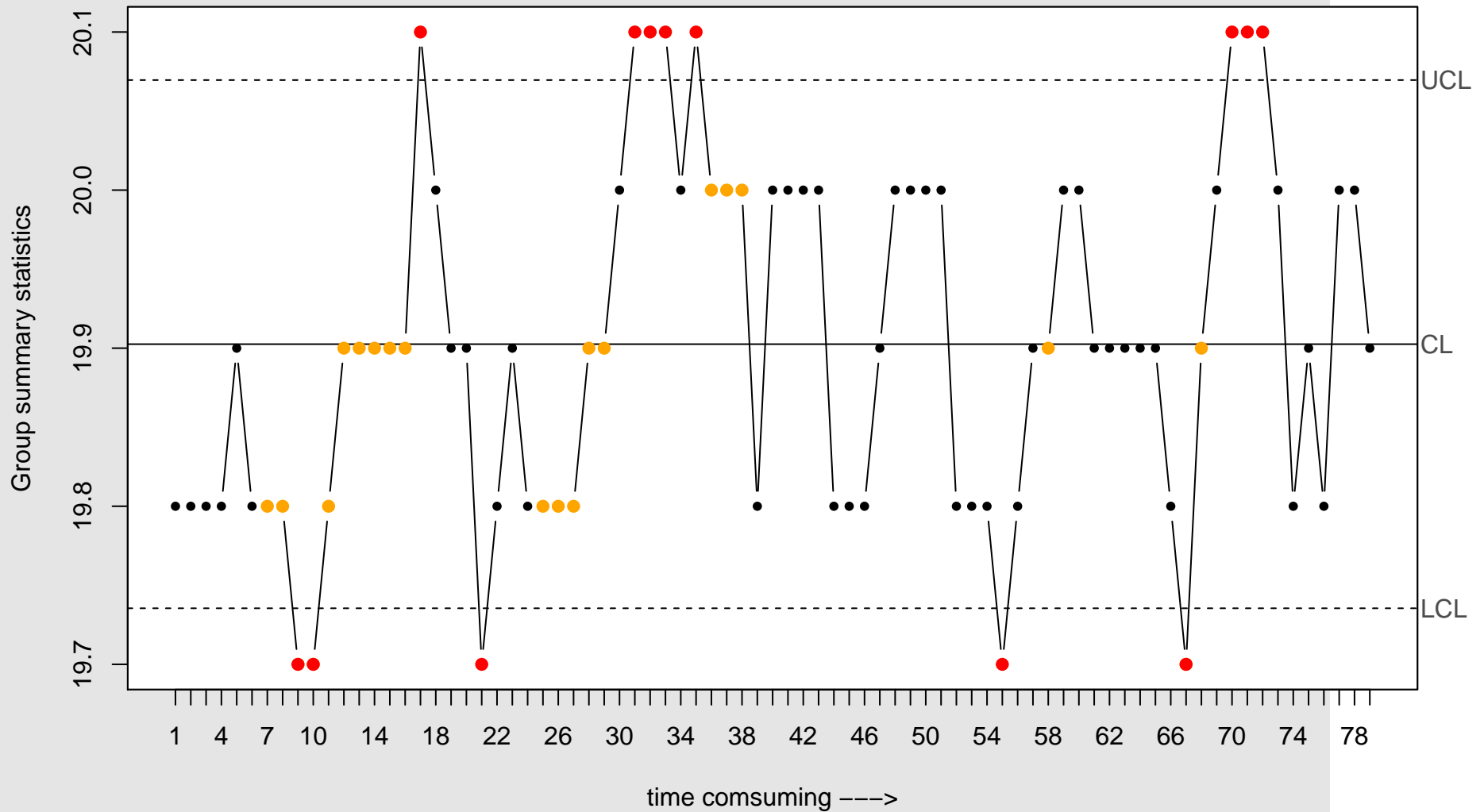


Number of groups = 79
Center = 19.89241
StdDev = 0.06819422

LCL = 19.68782
UCL = 20.09699

Number beyond limits = 12
Number violating runs = 21

191th column point of this product

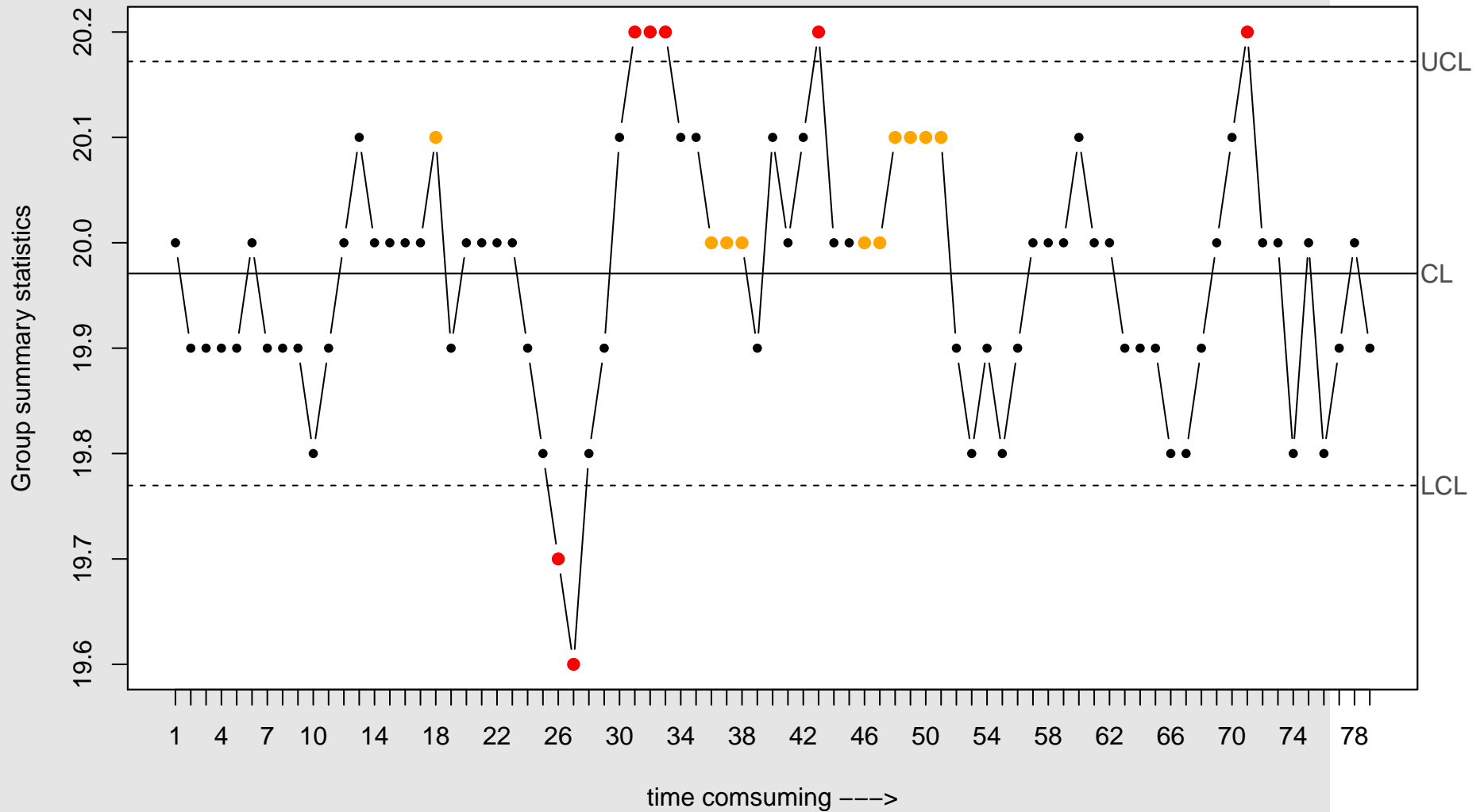


Number of groups = 79
Center = 19.90253
StdDev = 0.05569194

LCL = 19.73546
UCL = 20.06961

Number beyond limits = 13
Number violating runs = 21

192th column point of this product

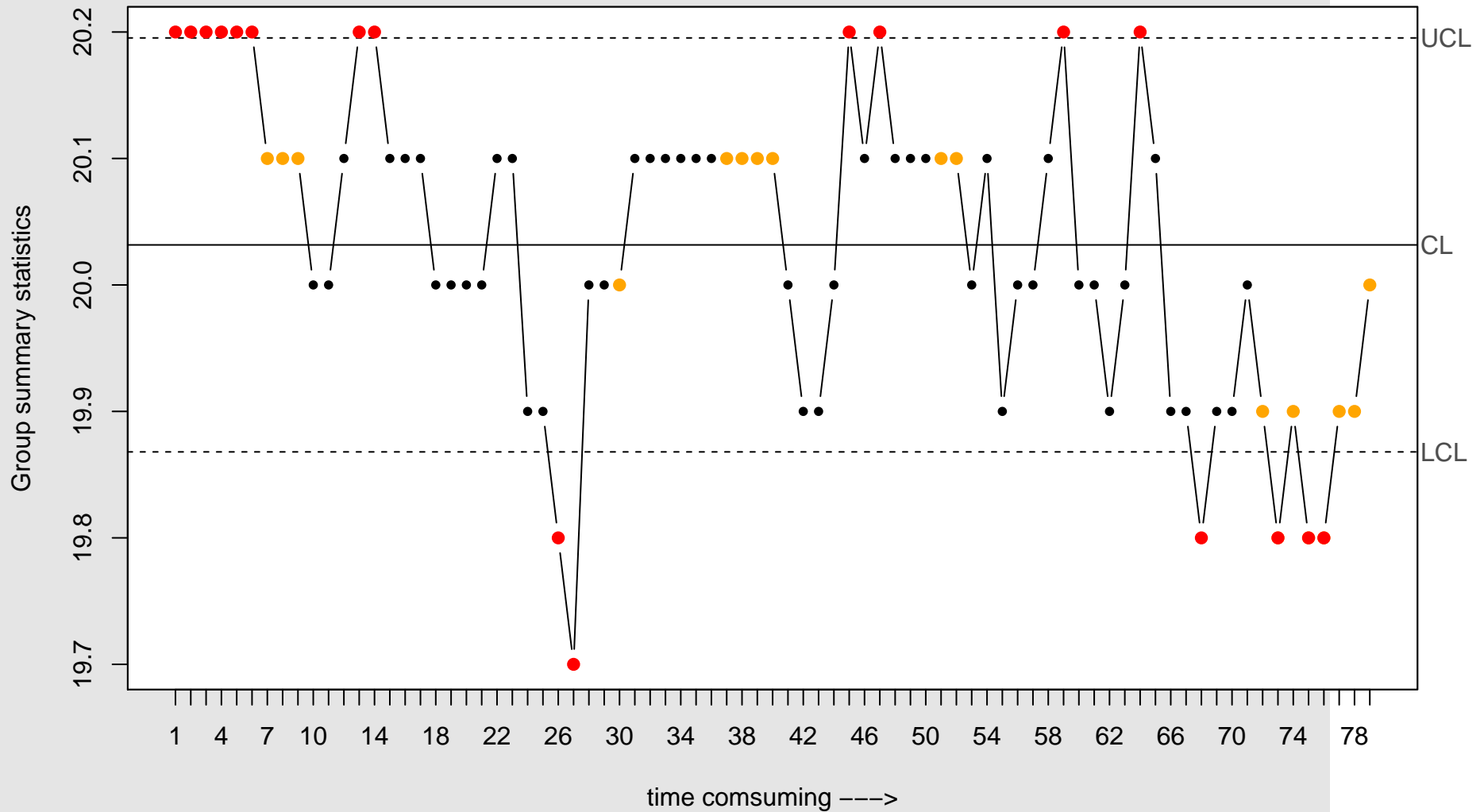


Number of groups = 79
 Center = 19.97089
 StdDev = 0.06705765

LCL = 19.76971
 UCL = 20.17206

Number beyond limits = 7
 Number violating runs = 10

193th column point of this product

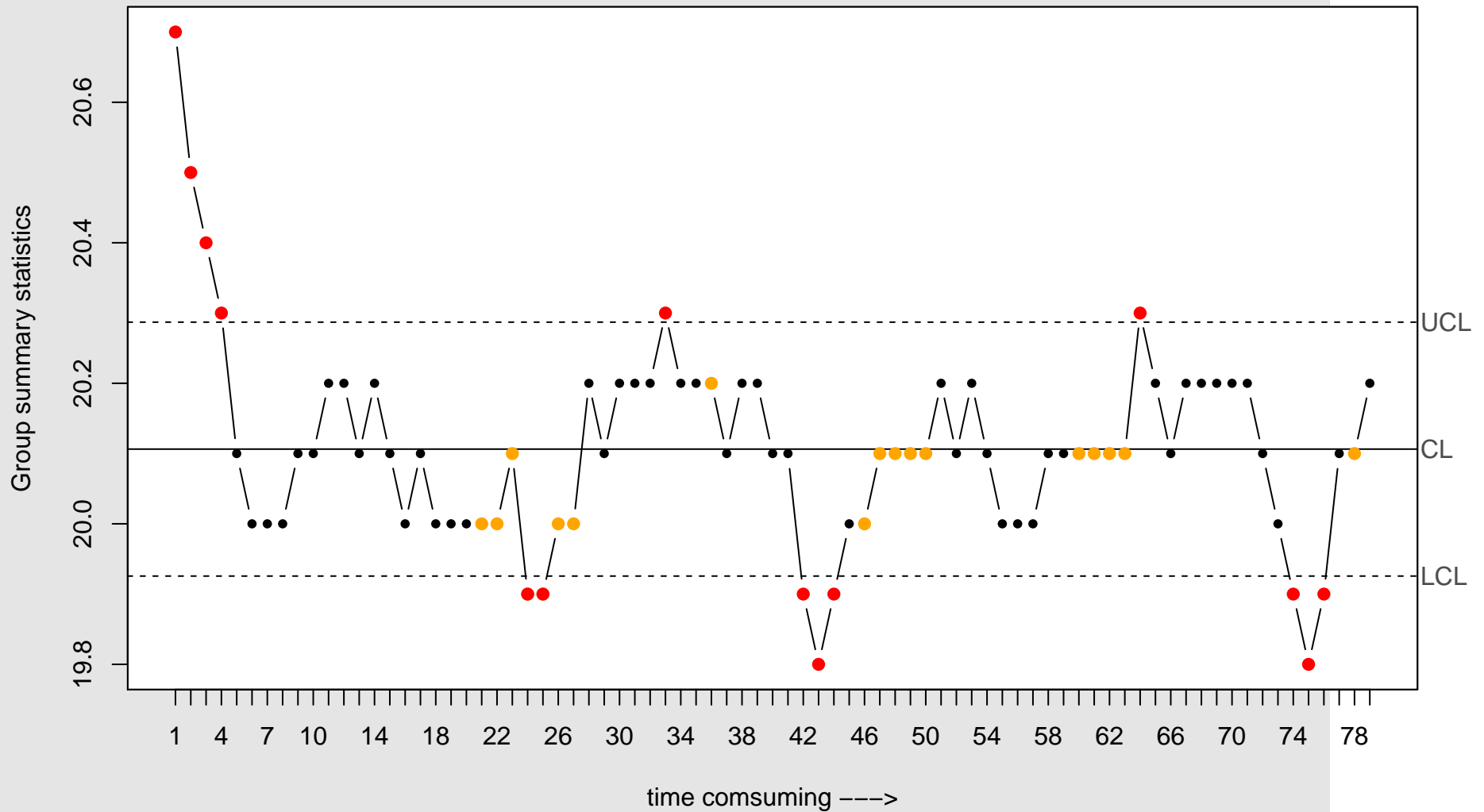


Number of groups = 79
Center = 20.03165
StdDev = 0.05455537

LCL = 19.86798
UCL = 20.19531

Number beyond limits = 18
Number violating runs = 18

194th column point of this product

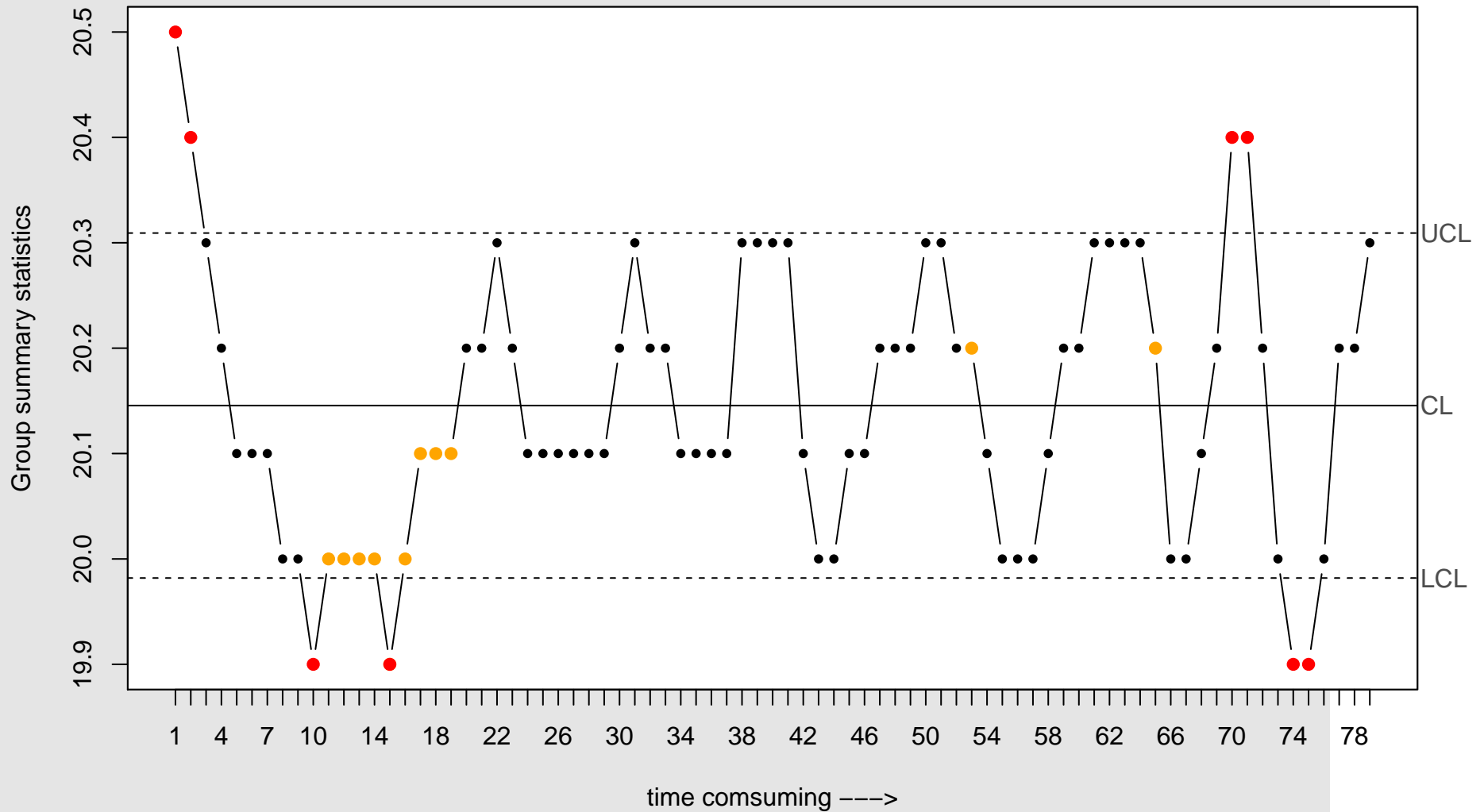


Number of groups = 79
 Center = 20.10633
 StdDev = 0.06023823

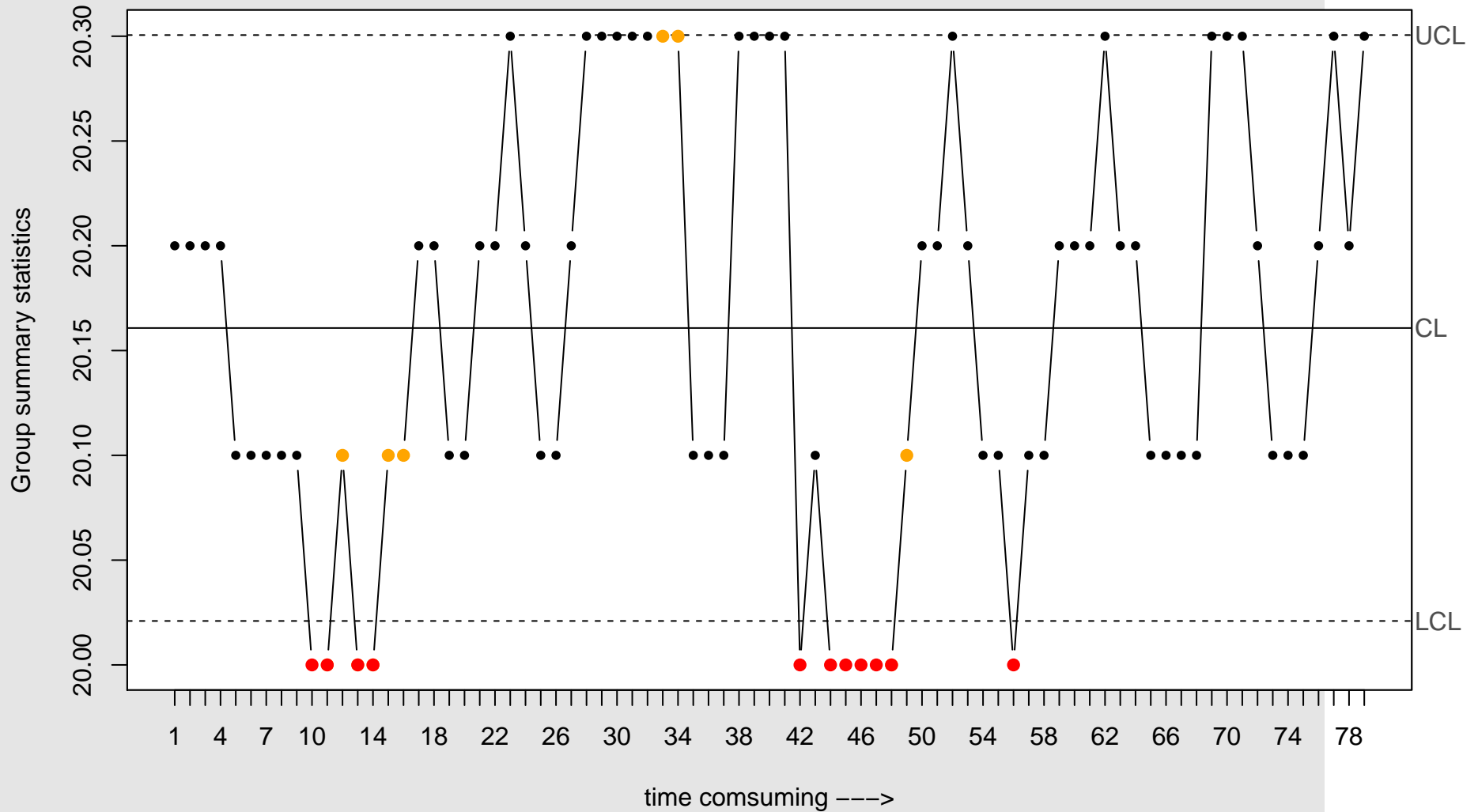
LCL = 19.92561
 UCL = 20.28704

Number beyond limits = 14
 Number violating runs = 18

195th column point of this product



196th column point of this product

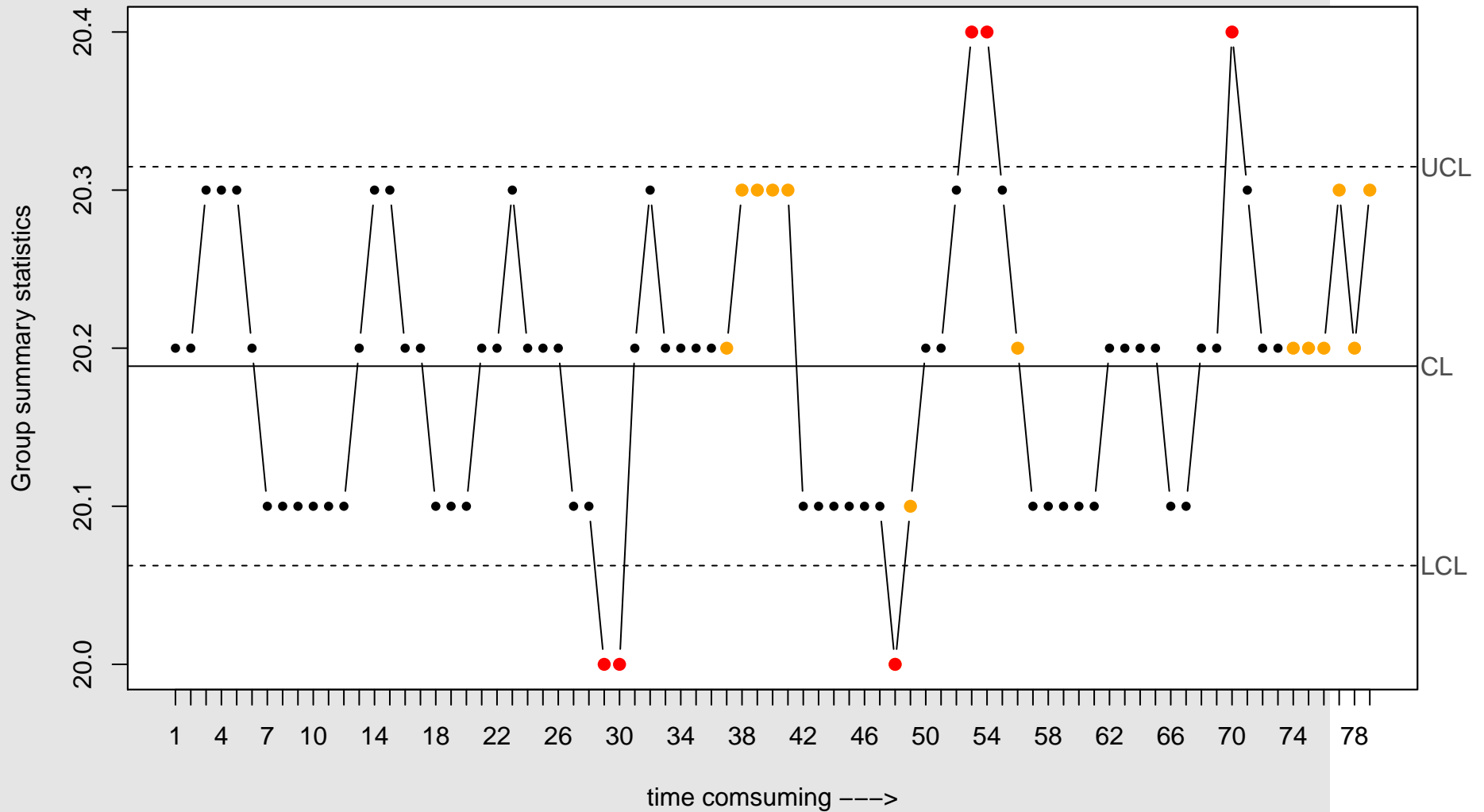


Number of groups = 79
 Center = 20.16076
 StdDev = 0.04659938

LCL = 20.02096
 UCL = 20.30056

Number beyond limits = 11
 Number violating runs = 10

197th column point of this product

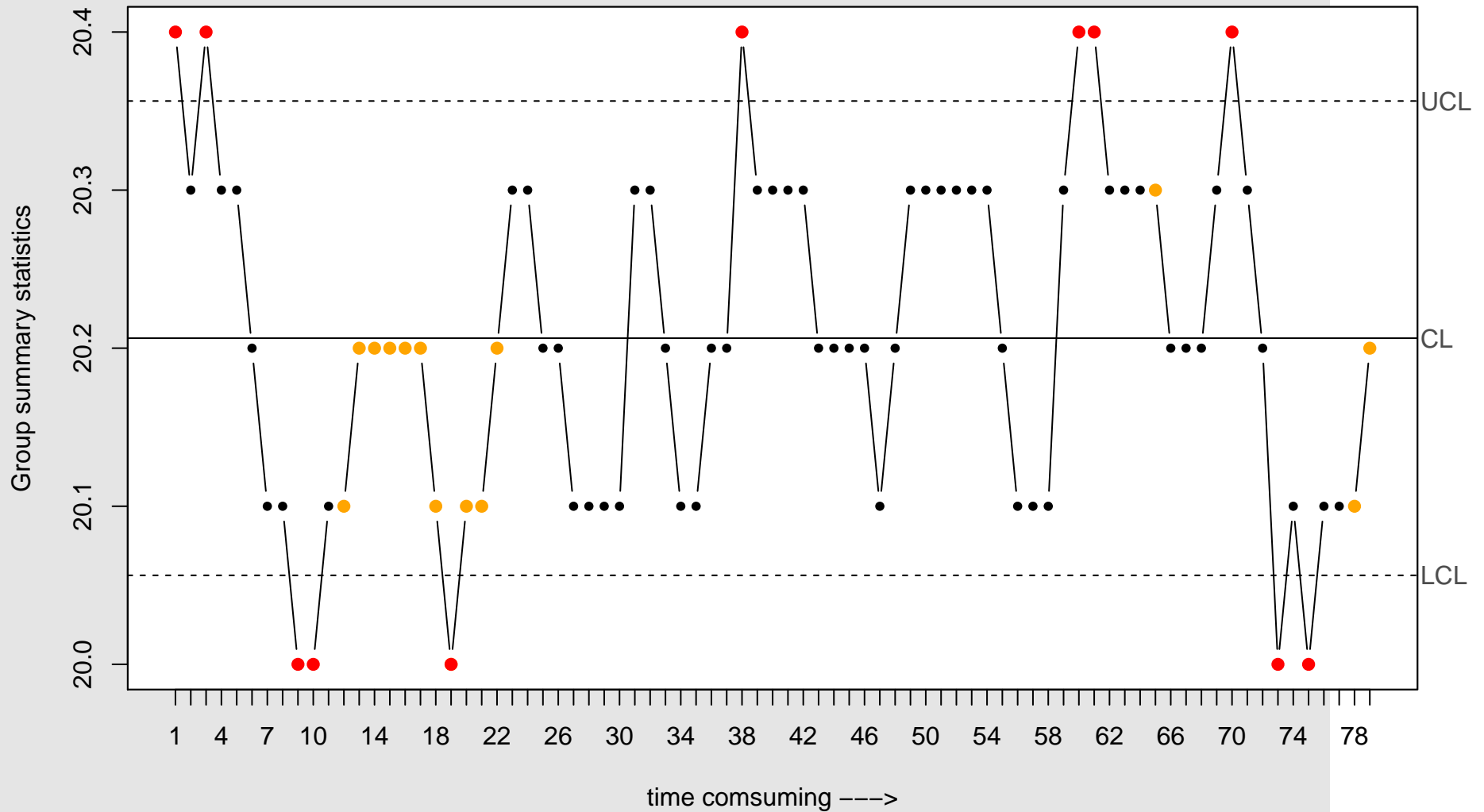


Number of groups = 79
Center = 20.18861
StdDev = 0.0420531

LCL = 20.06245
UCL = 20.31477

Number beyond limits = 6
Number violating runs = 14

198th column point of this product

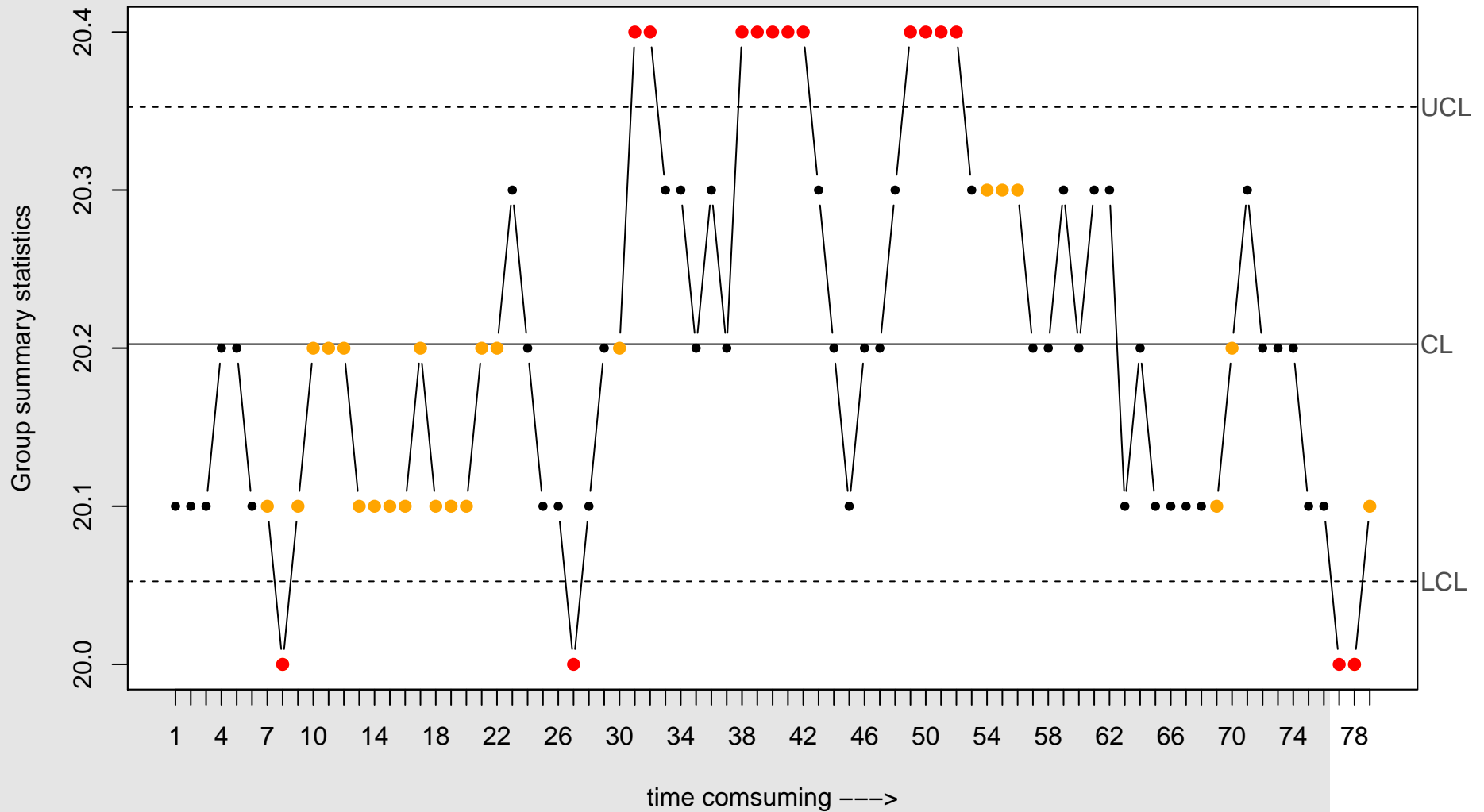


Number of groups = 79
 Center = 20.20633
 StdDev = 0.05000909

LCL = 20.0563
 UCL = 20.35636

Number beyond limits = 11
 Number violating runs = 14

199th column point of this product

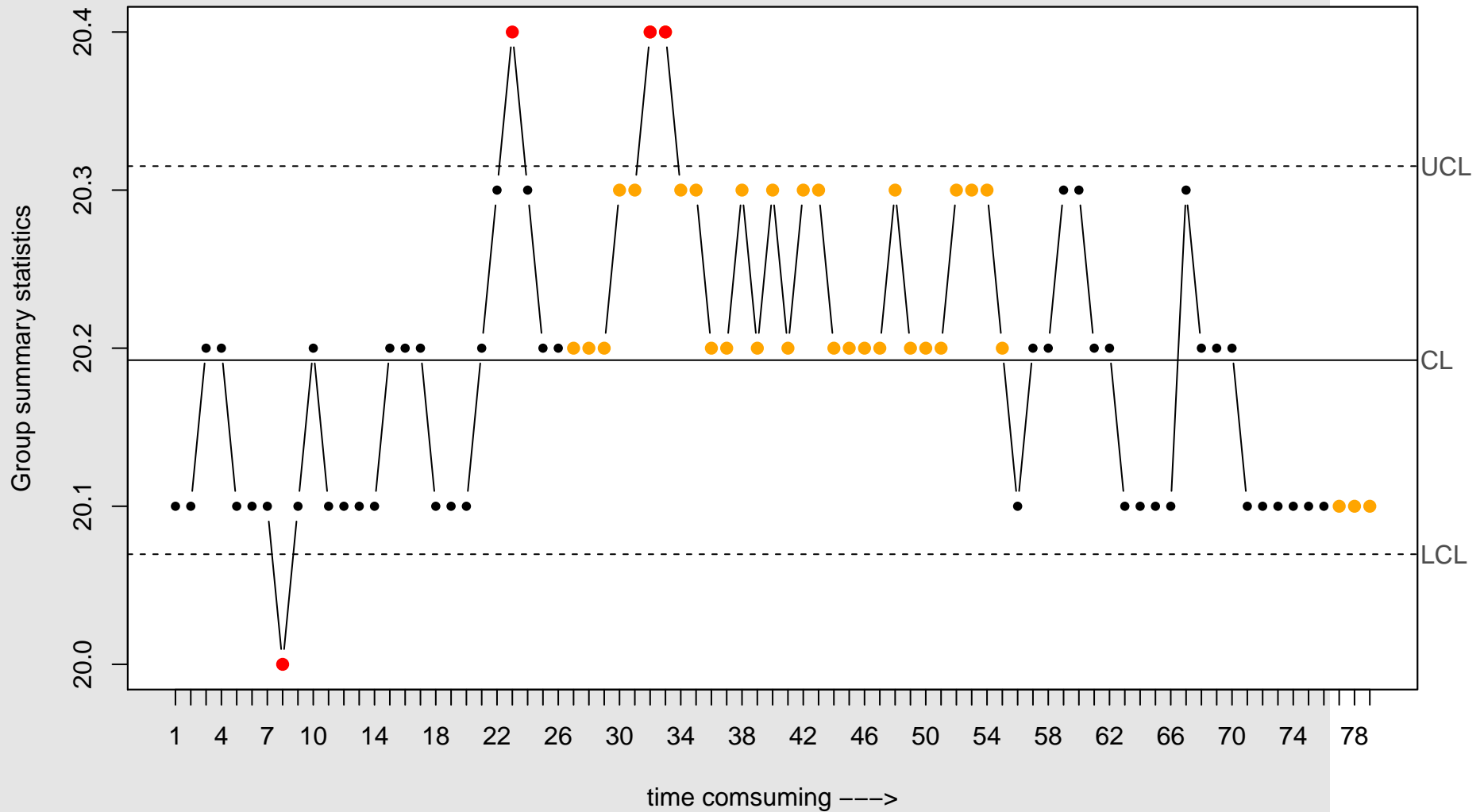


Number of groups = 79
Center = 20.20253
StdDev = 0.05000909

LCL = 20.0525
UCL = 20.35256

Number beyond limits = 15
Number violating runs = 24

200th column point of this product

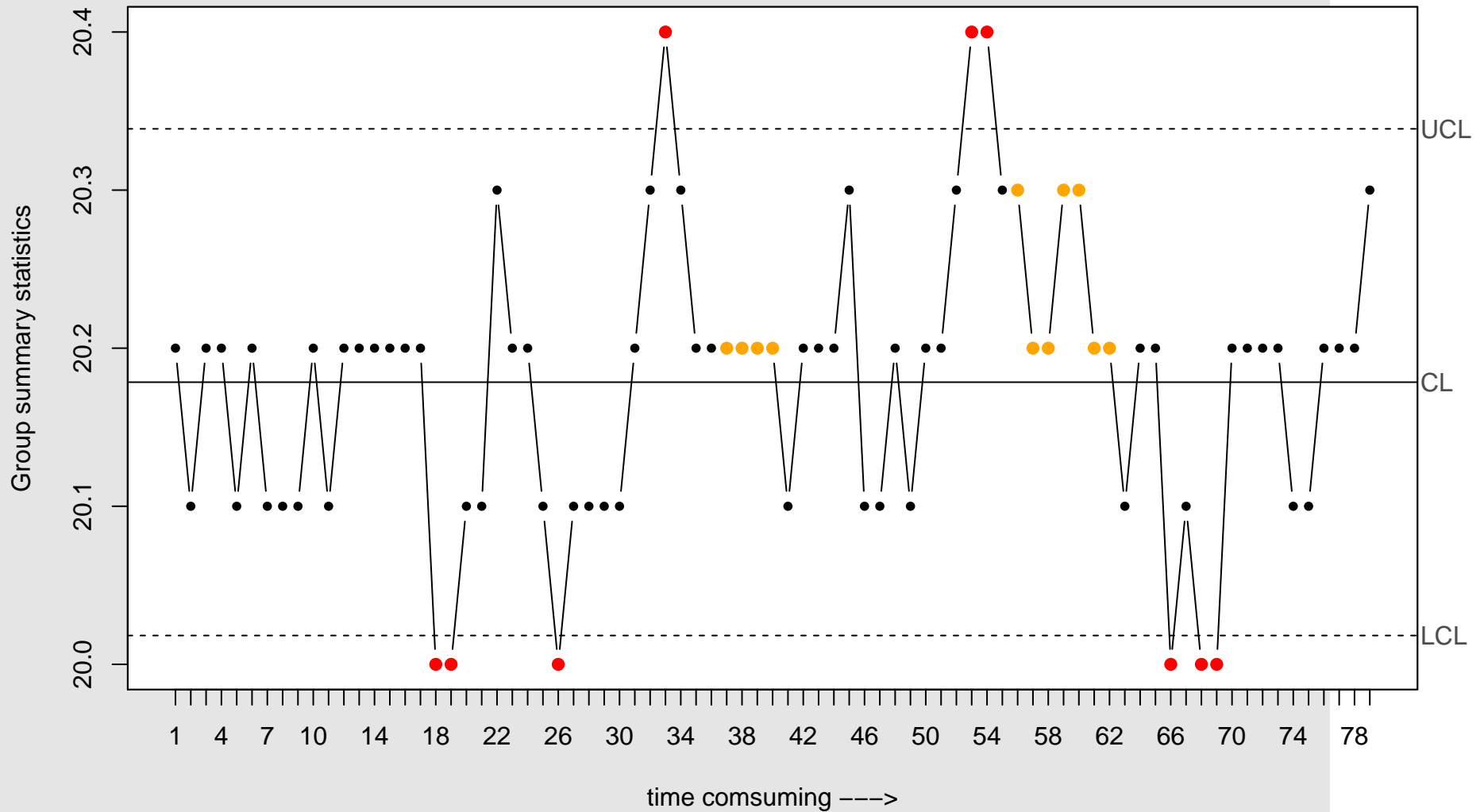


Number of groups = 79
 Center = 20.19241
 StdDev = 0.04091653

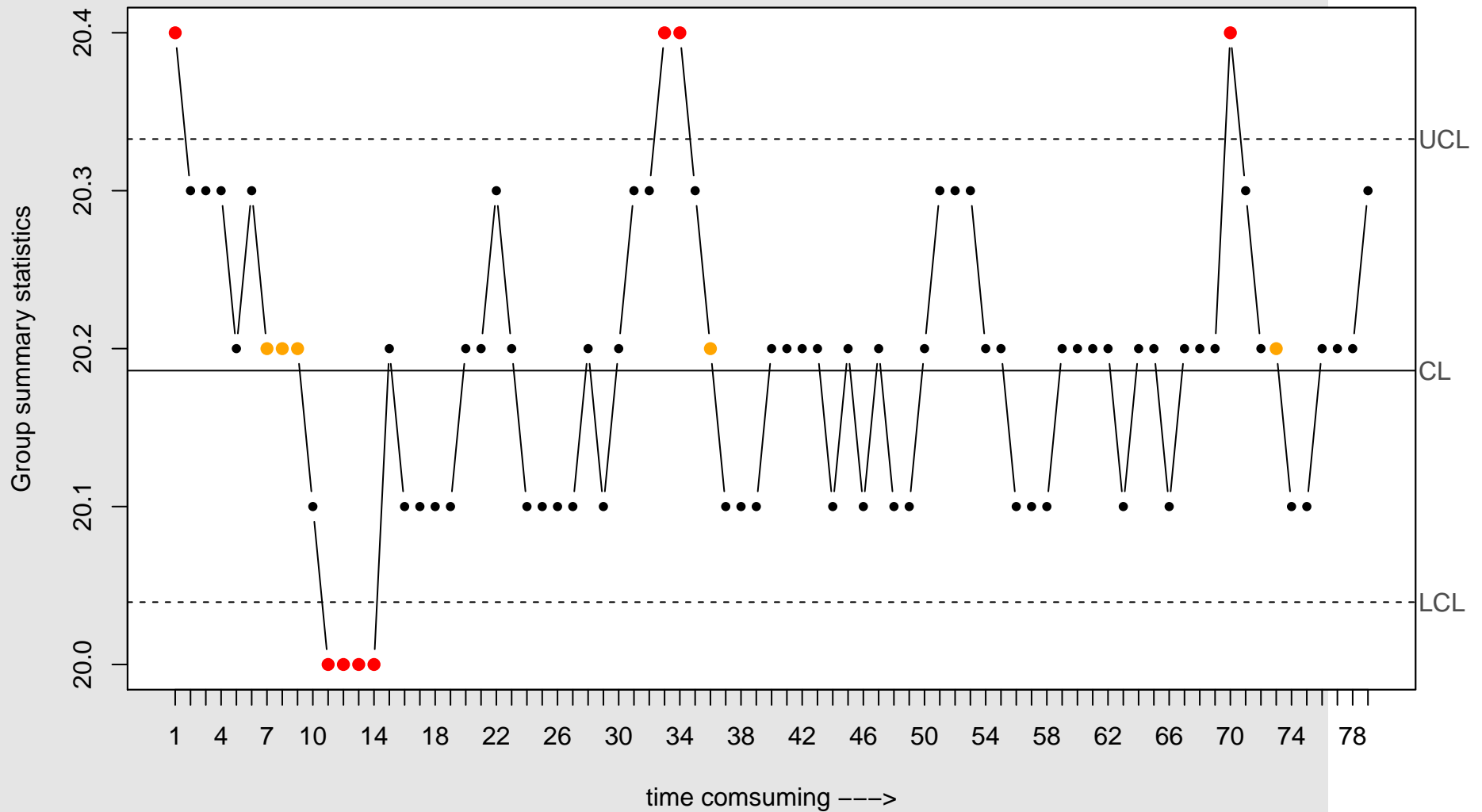
LCL = 20.06966
 UCL = 20.31515

Number beyond limits = 4
 Number violating runs = 32

201th column point of this product



202th column point of this product



Number of groups = 79

Center = 20.18608

StdDev = 0.04887252

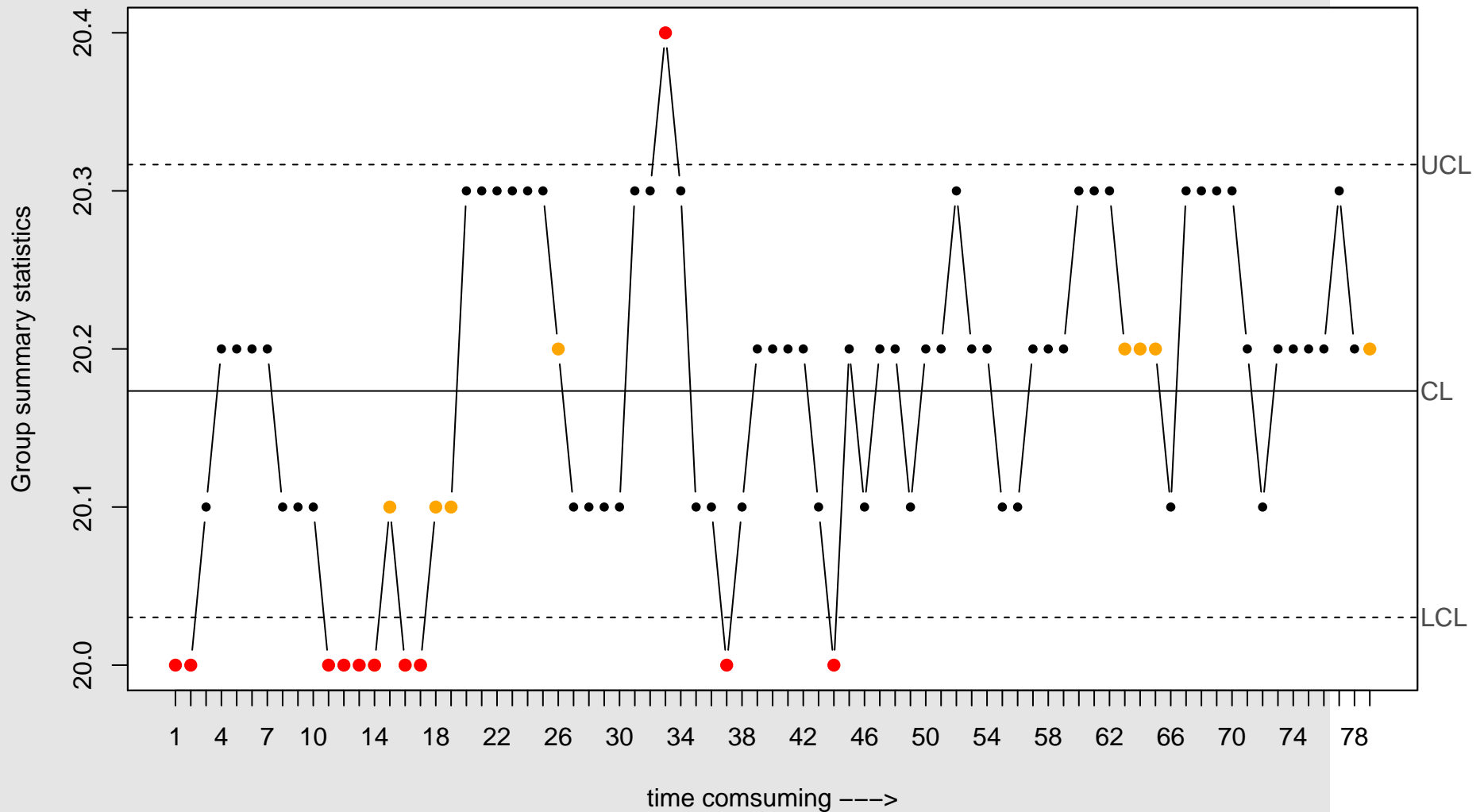
LCL = 20.03946

UCL = 20.33269

Number beyond limits = 8

Number violating runs = 5

203th column point of this product

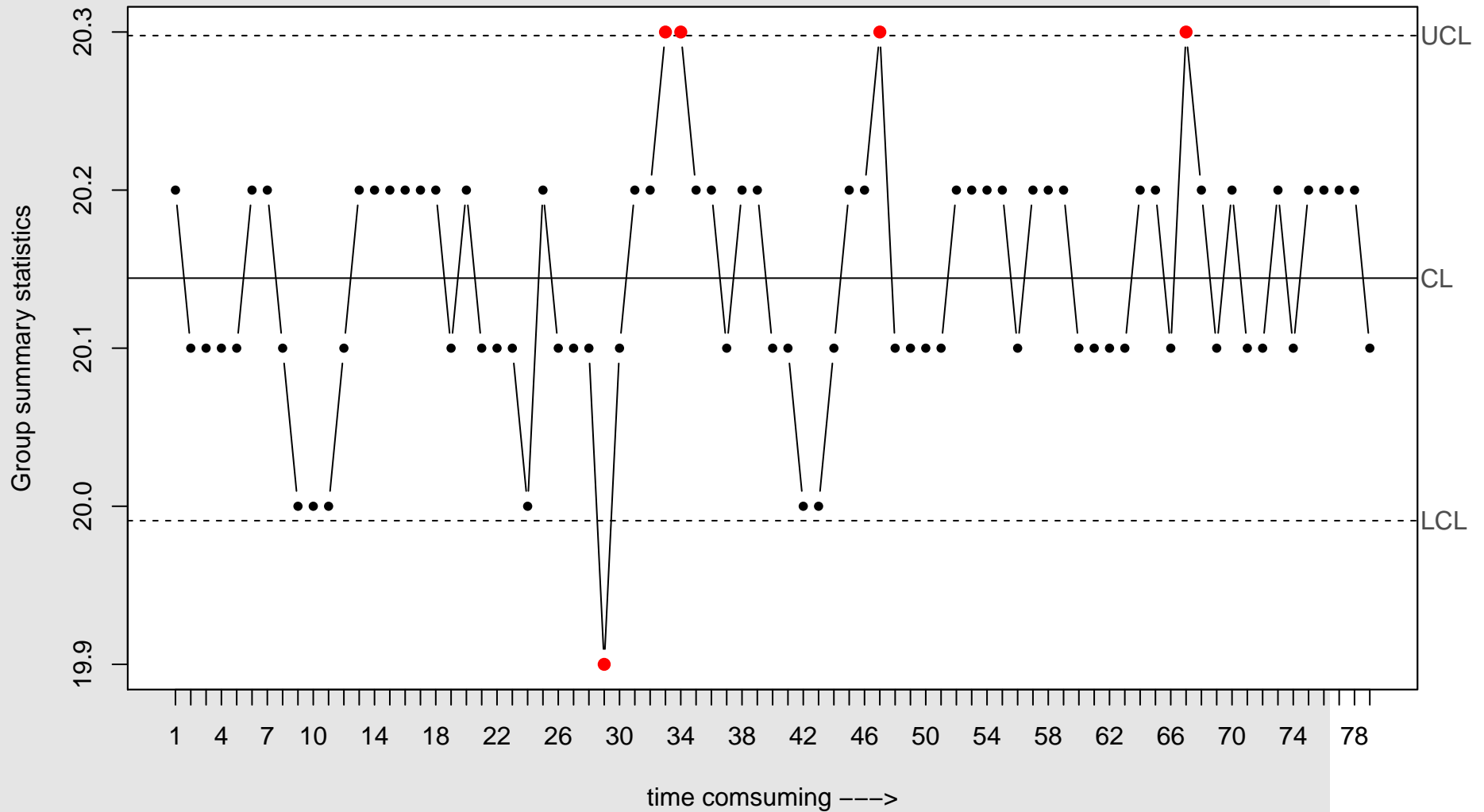


Number of groups = 79
 Center = 20.17342
 StdDev = 0.04773595

LCL = 20.03021
 UCL = 20.31663

Number beyond limits = 11
 Number violating runs = 11

204th column point of this product

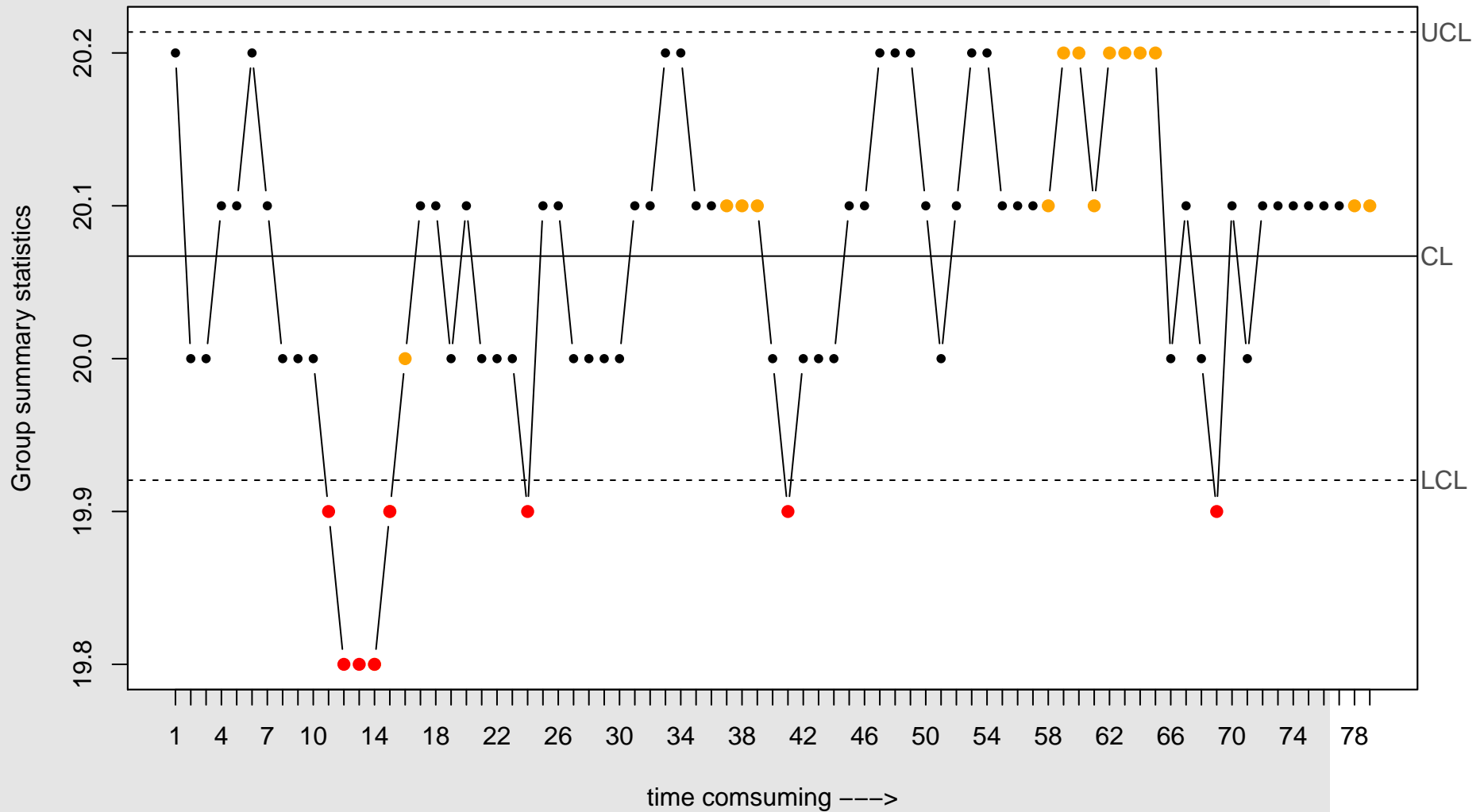


Number of groups = 79
 Center = 20.1443
 StdDev = 0.05114566

LCL = 19.99087
 UCL = 20.29774

Number beyond limits = 5
 Number violating runs = 0

205th column point of this product

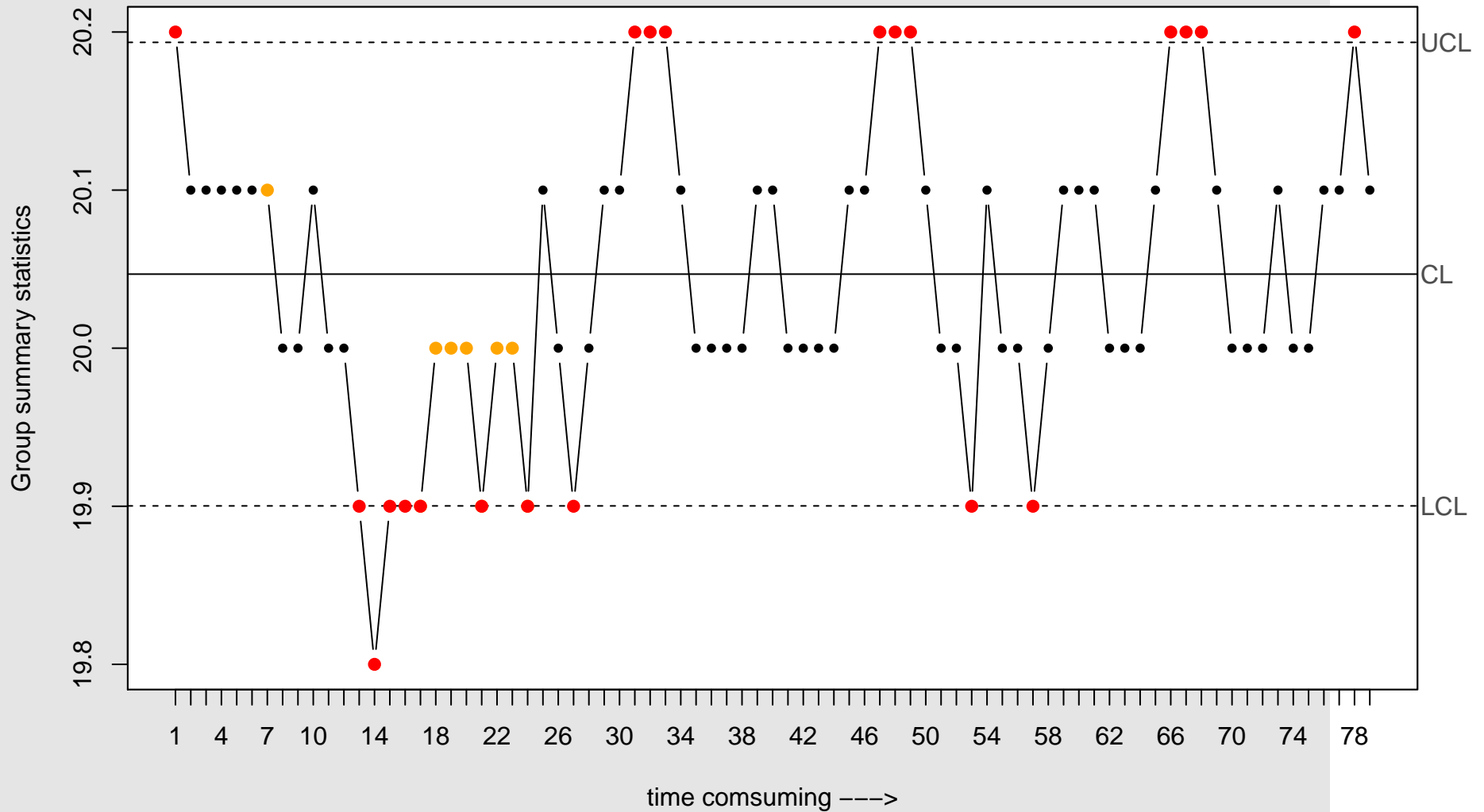


Number of groups = 79
 Center = 20.06709
 StdDev = 0.04887252

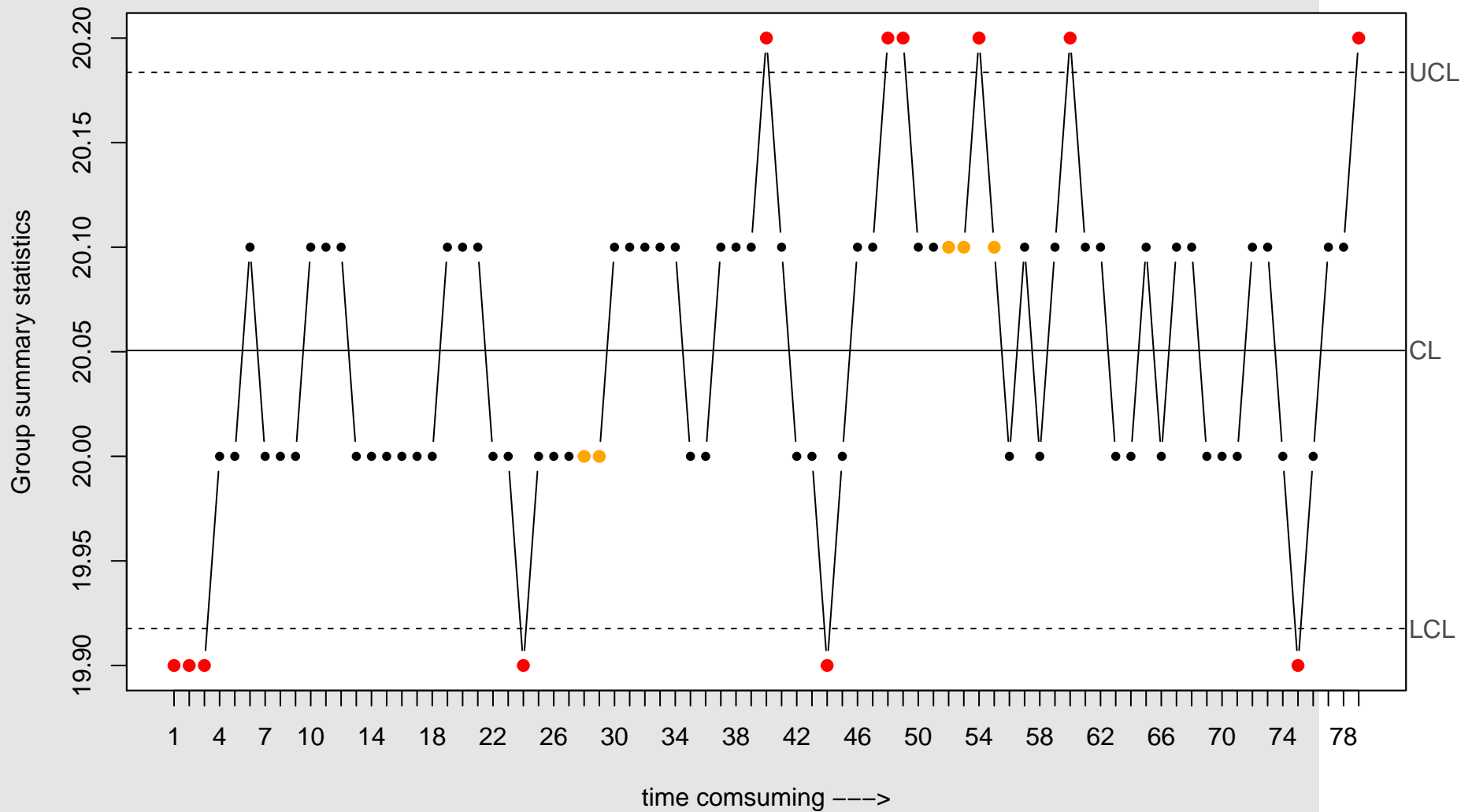
LCL = 19.92047
 UCL = 20.21371

Number beyond limits = 8
 Number violating runs = 16

206th column point of this product



207th column point of this product



Number of groups = 79

Center = 20.05063

StdDev = 0.04432624

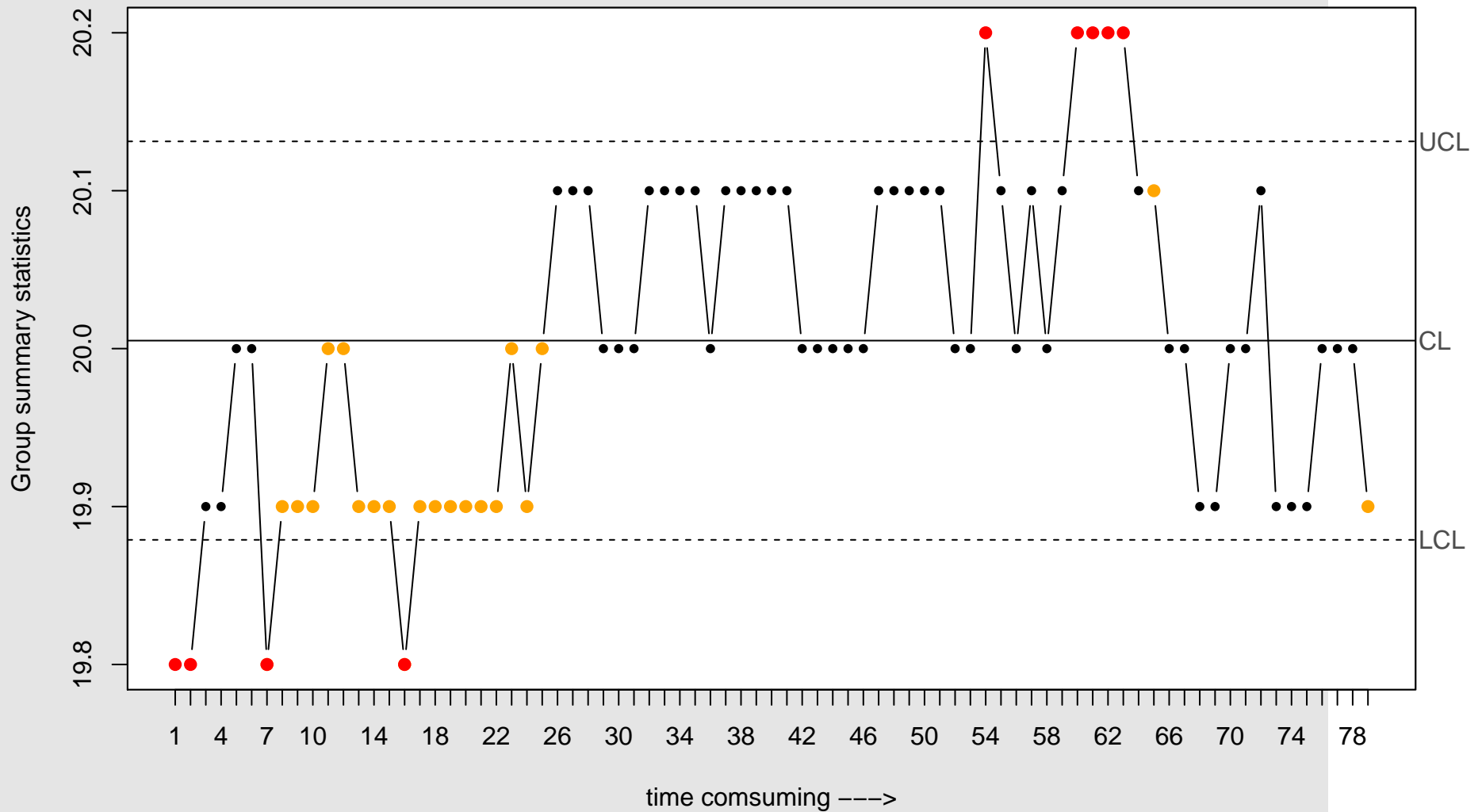
LCL = 19.91765

UCL = 20.18361

Number beyond limits = 12

Number violating runs = 6

208th column point of this product



Number of groups = 79

Center = 20.00506

StdDev = 0.0420531

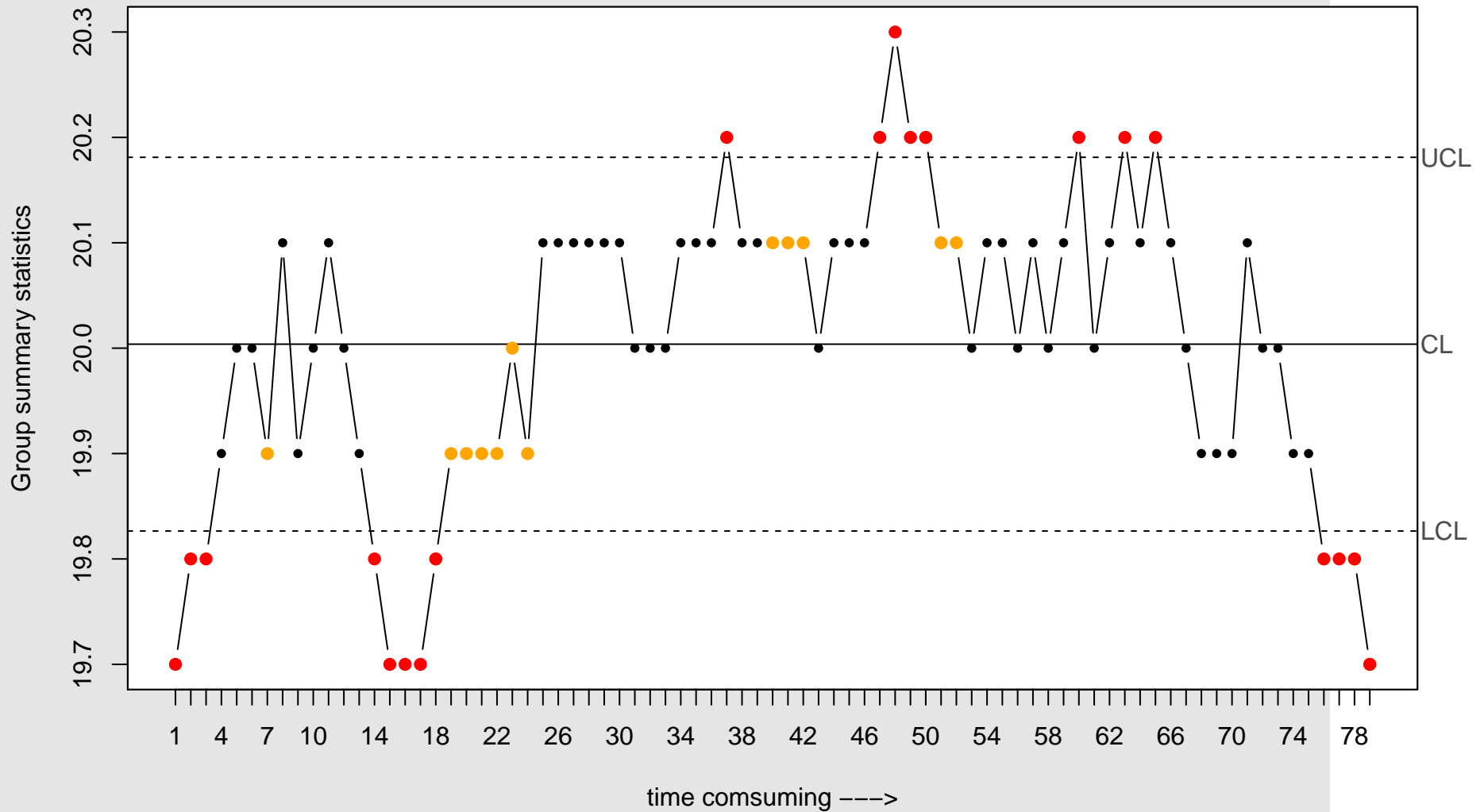
LCL = 19.8789

UCL = 20.13122

Number beyond limits = 9

Number violating runs = 21

209th column point of this product

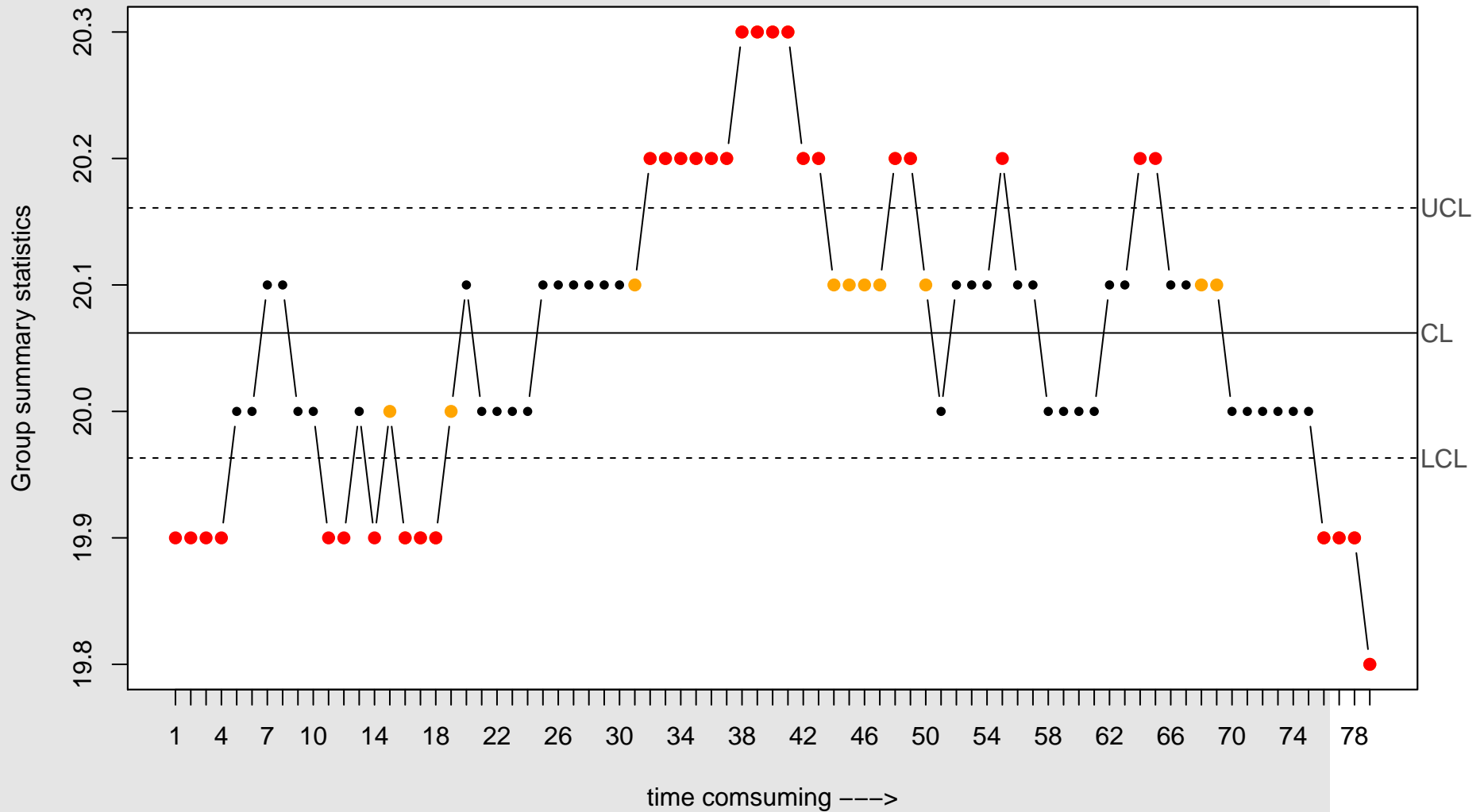


Number of groups = 79
 Center = 20.0038
 StdDev = 0.05910165

LCL = 19.82649
 UCL = 20.1811

Number beyond limits = 20
 Number violating runs = 16

210th column point of this product



Number of groups = 79

Center = 20.06203

StdDev = 0.03296054

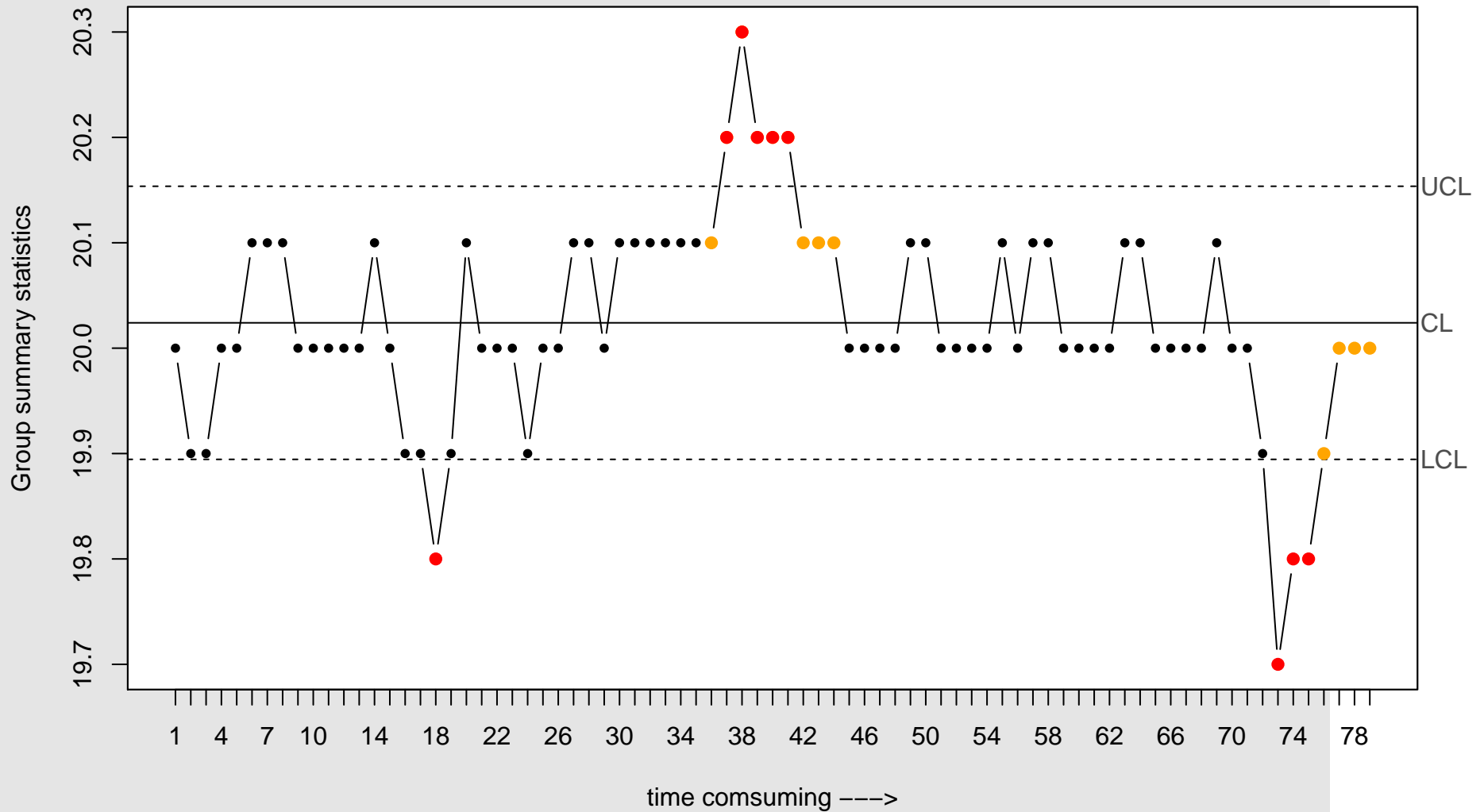
LCL = 19.96314

UCL = 20.16091

Number beyond limits = 31

Number violating runs = 31

211th column point of this product

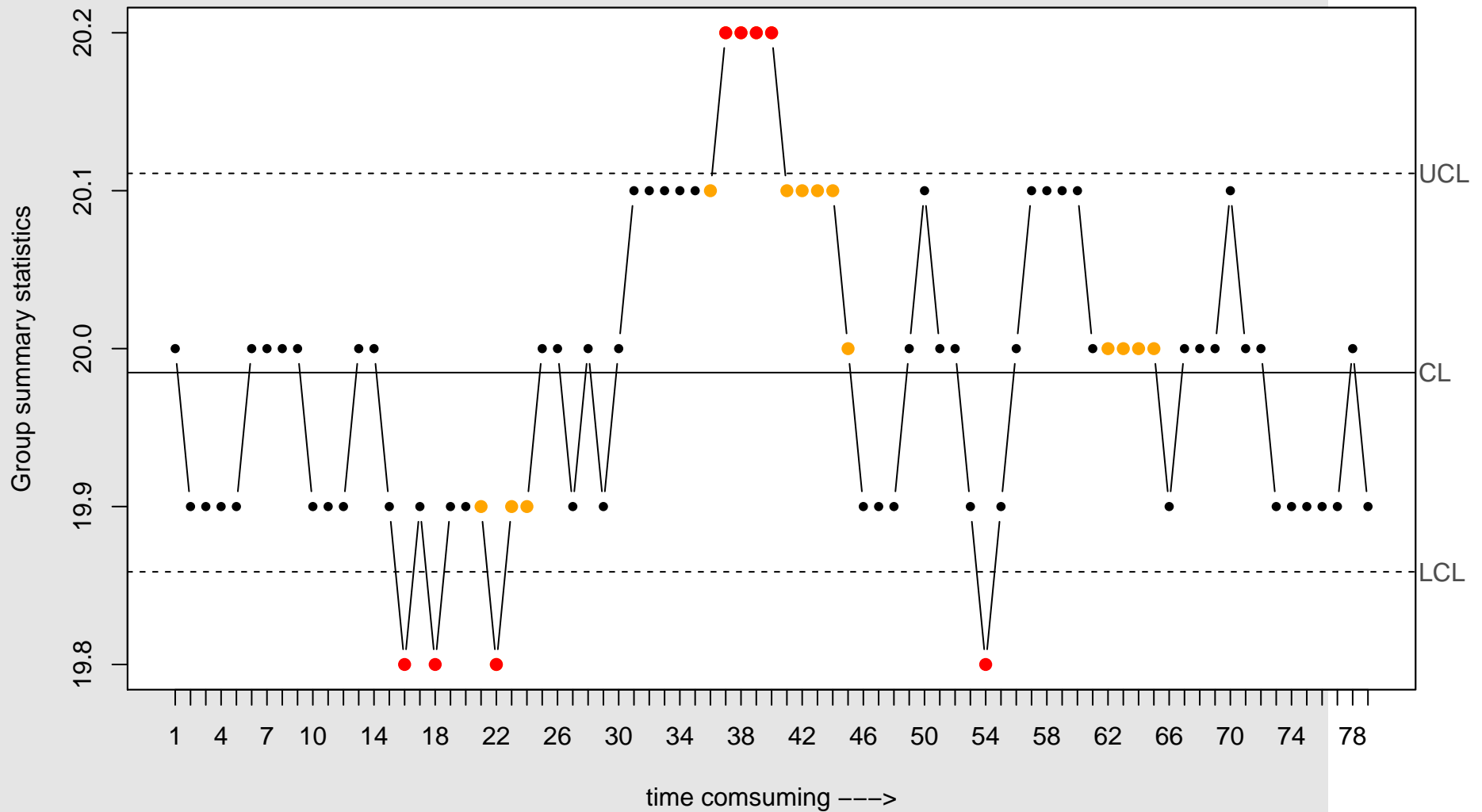


Number of groups = 79
 Center = 20.02405
 StdDev = 0.04318967

LCL = 19.89448
 UCL = 20.15362

Number beyond limits = 9
 Number violating runs = 13

212th column point of this product

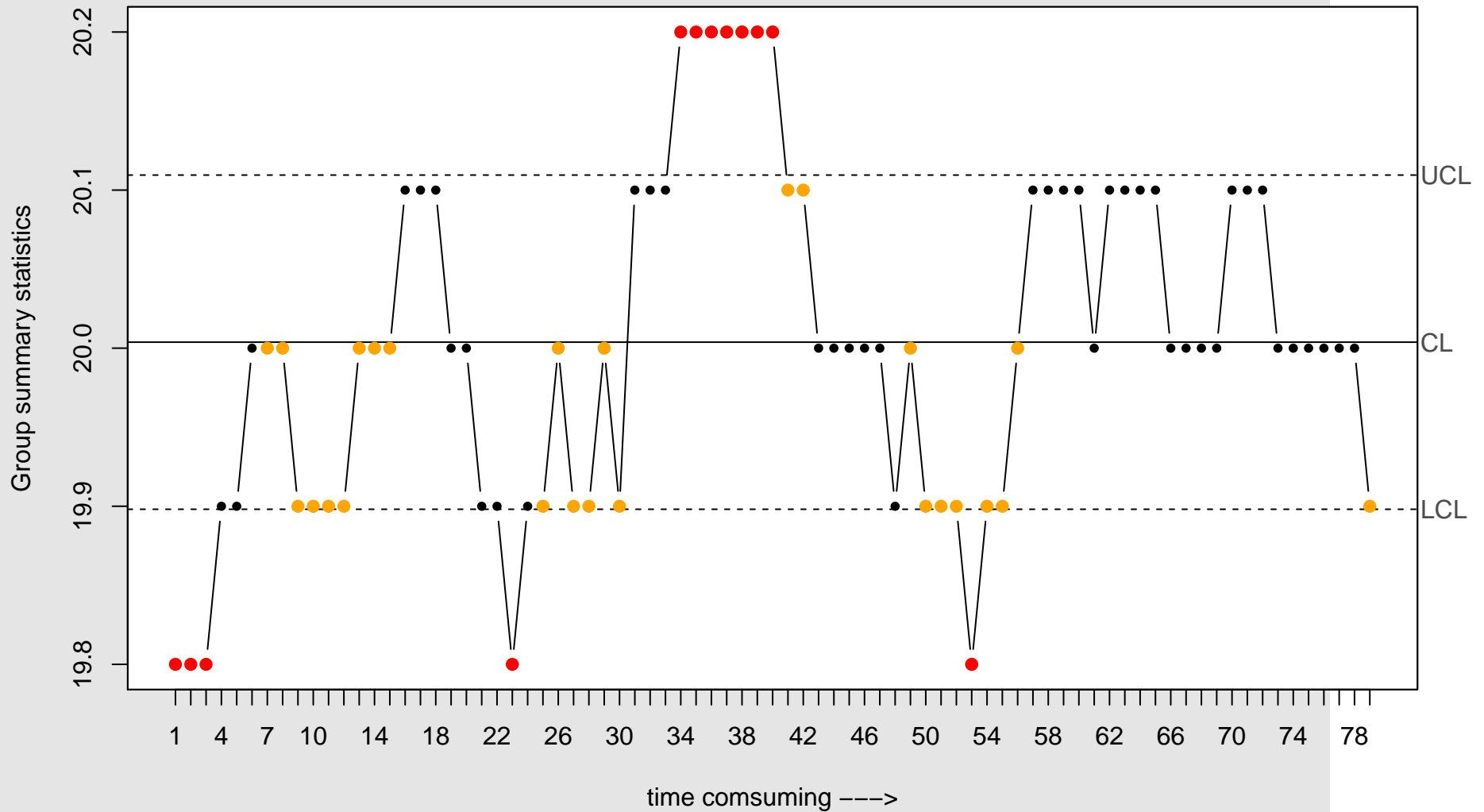


Number of groups = 79
 Center = 19.98481
 StdDev = 0.0420531

LCL = 19.85865
 UCL = 20.11097

Number beyond limits = 8
 Number violating runs = 18

213th column point of this product

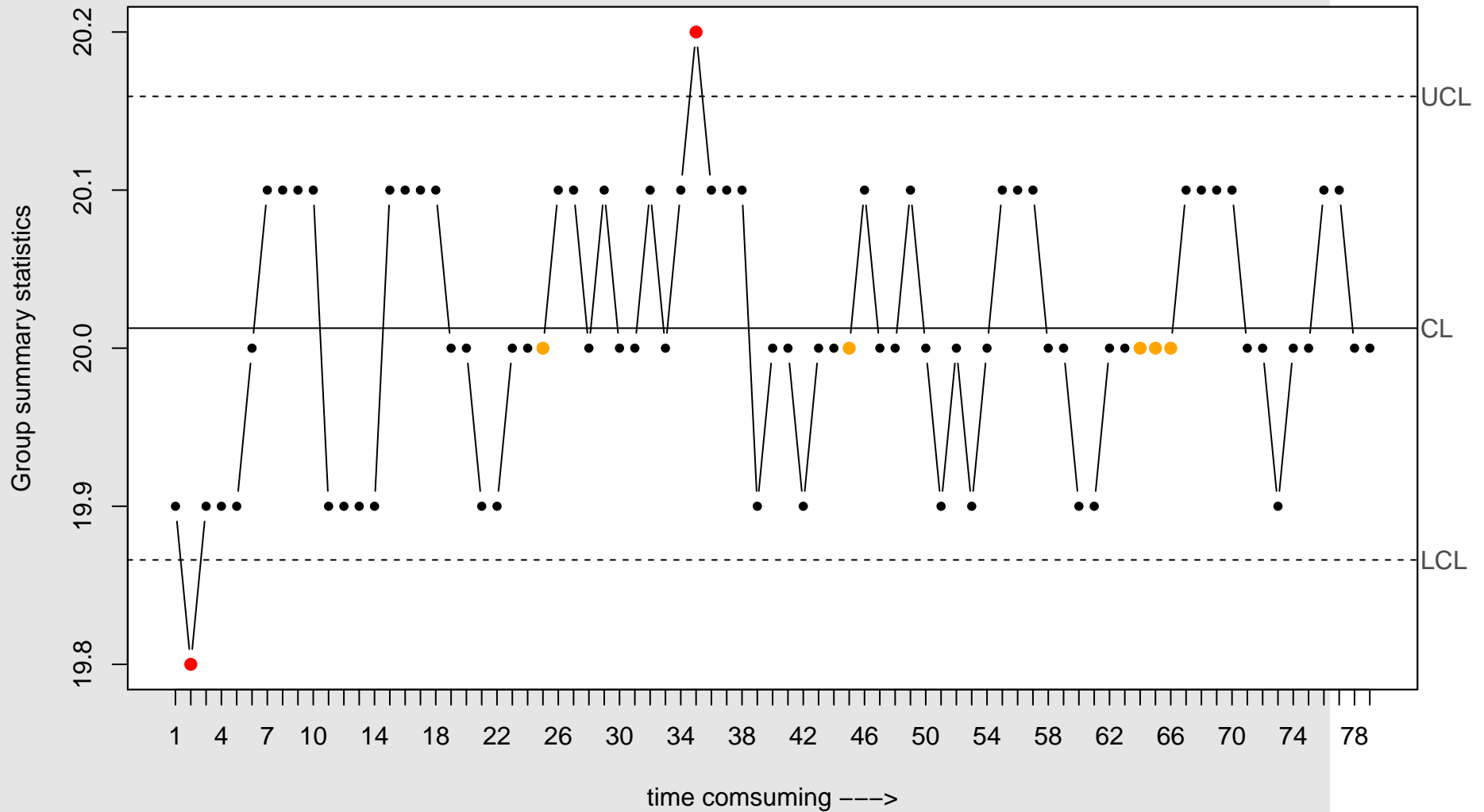


Number of groups = 79
 Center = 20.0038
 StdDev = 0.03523368

LCL = 19.8981
 UCL = 20.1095

Number beyond limits = 12
 Number violating runs = 30

214th column point of this product



Number of groups = 79

Center = 20.01266

StdDev = 0.04887252

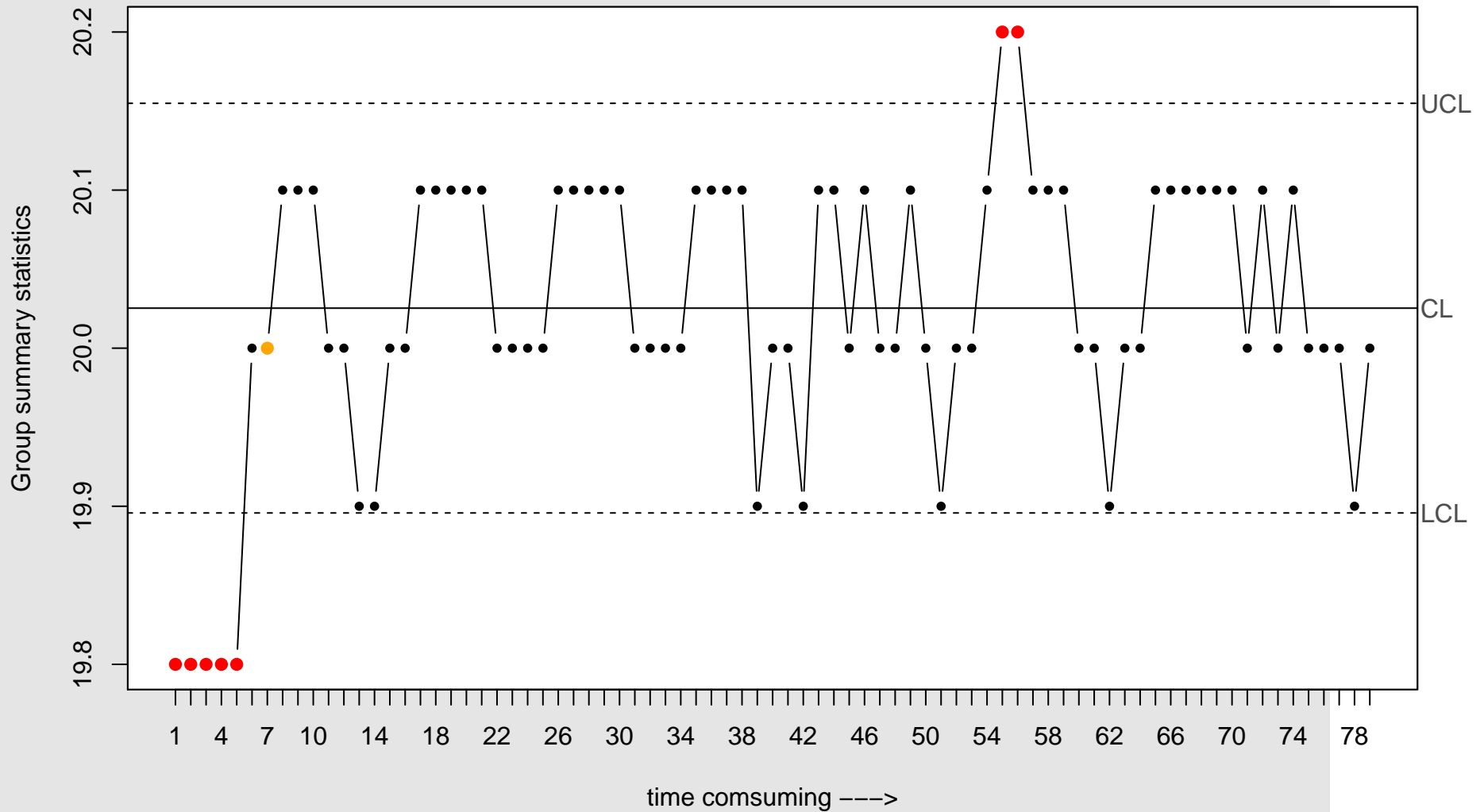
LCL = 19.86604

UCL = 20.15928

Number beyond limits = 2

Number violating runs = 5

215th column point of this product

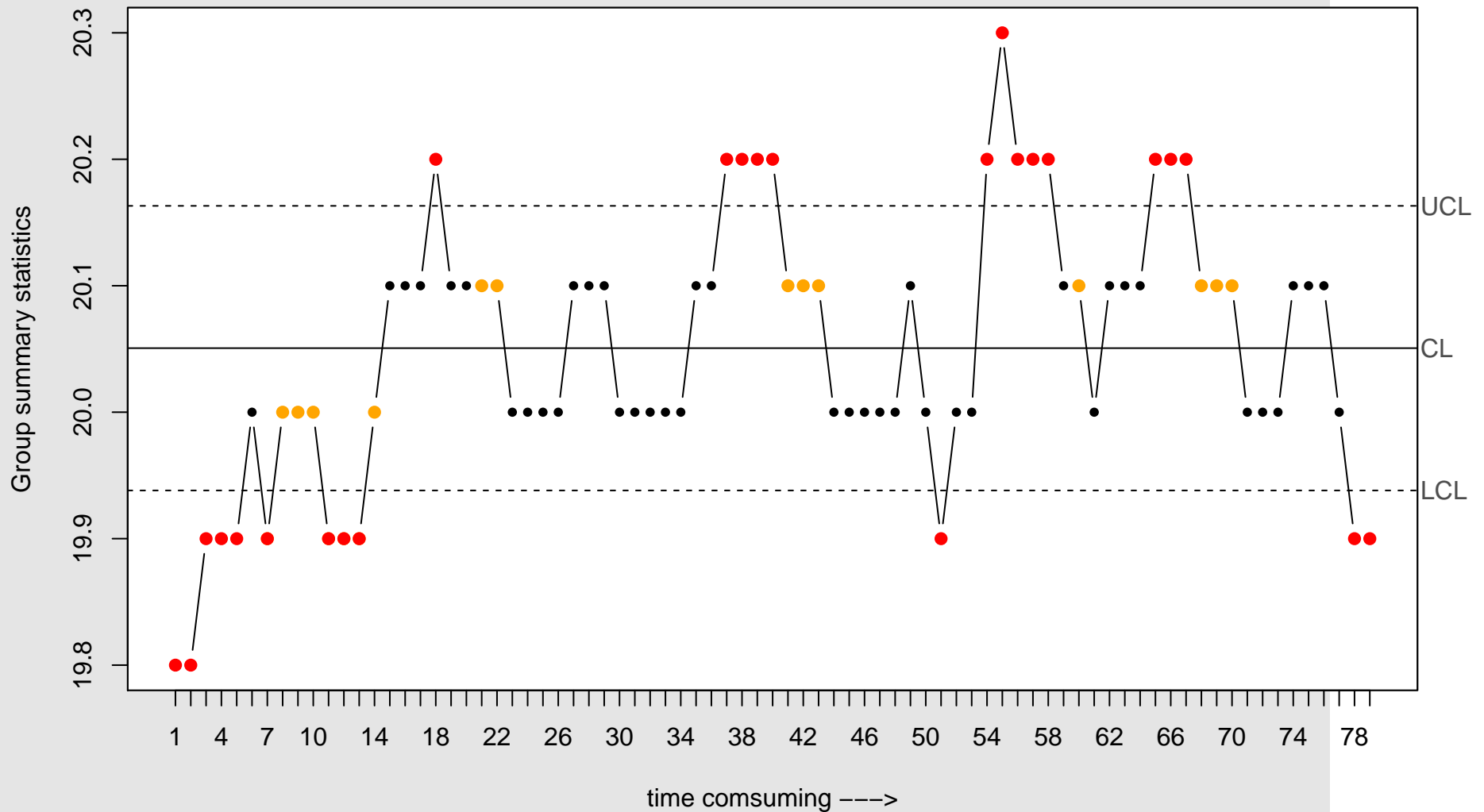


Number of groups = 79
 Center = 20.02532
 StdDev = 0.04318967

LCL = 19.89575
 UCL = 20.15489

Number beyond limits = 7
 Number violating runs = 1

216th column point of this product



Number of groups = 79

Center = 20.05063

StdDev = 0.03750682

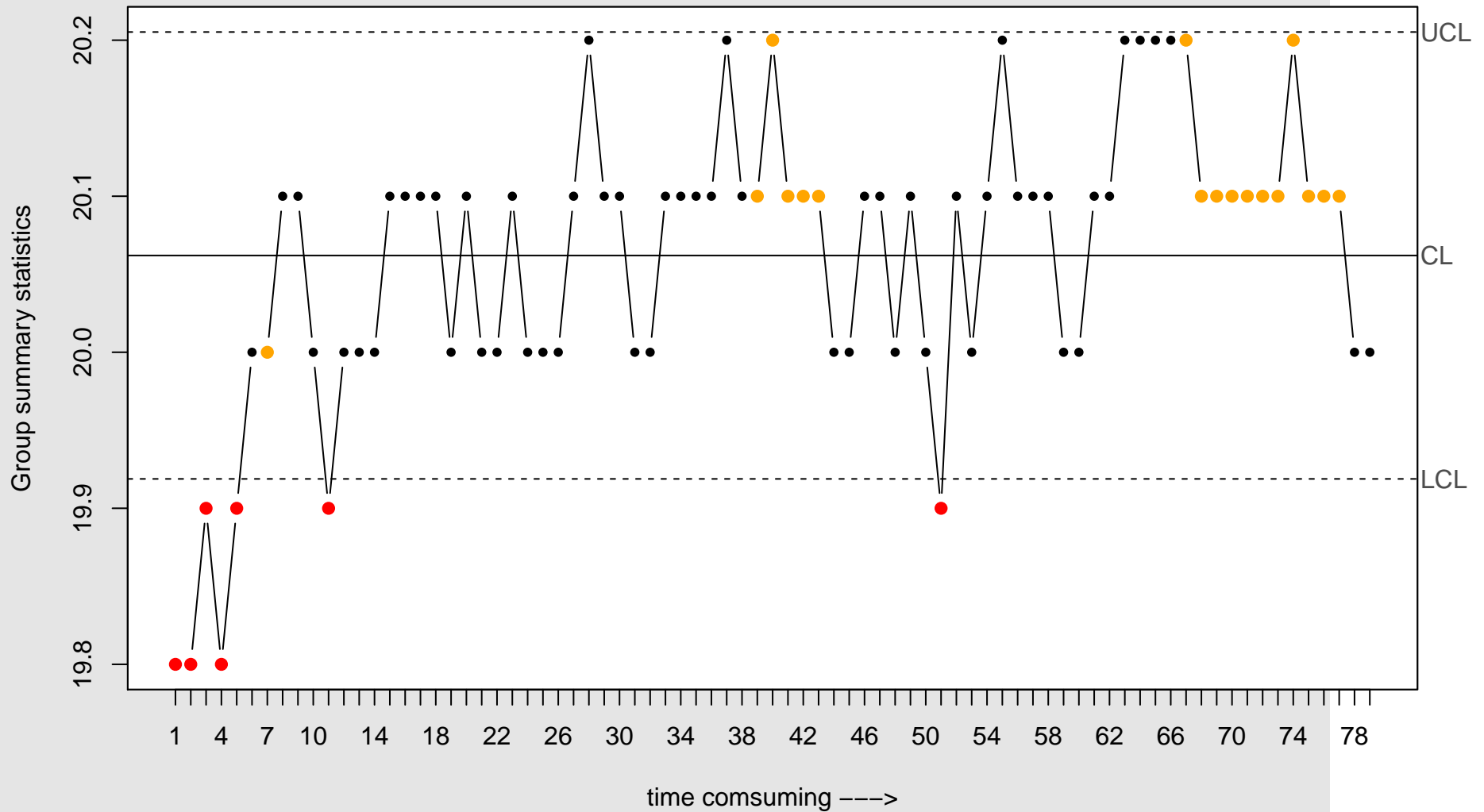
LCL = 19.93811

UCL = 20.16315

Number beyond limits = 25

Number violating runs = 17

217th column point of this product

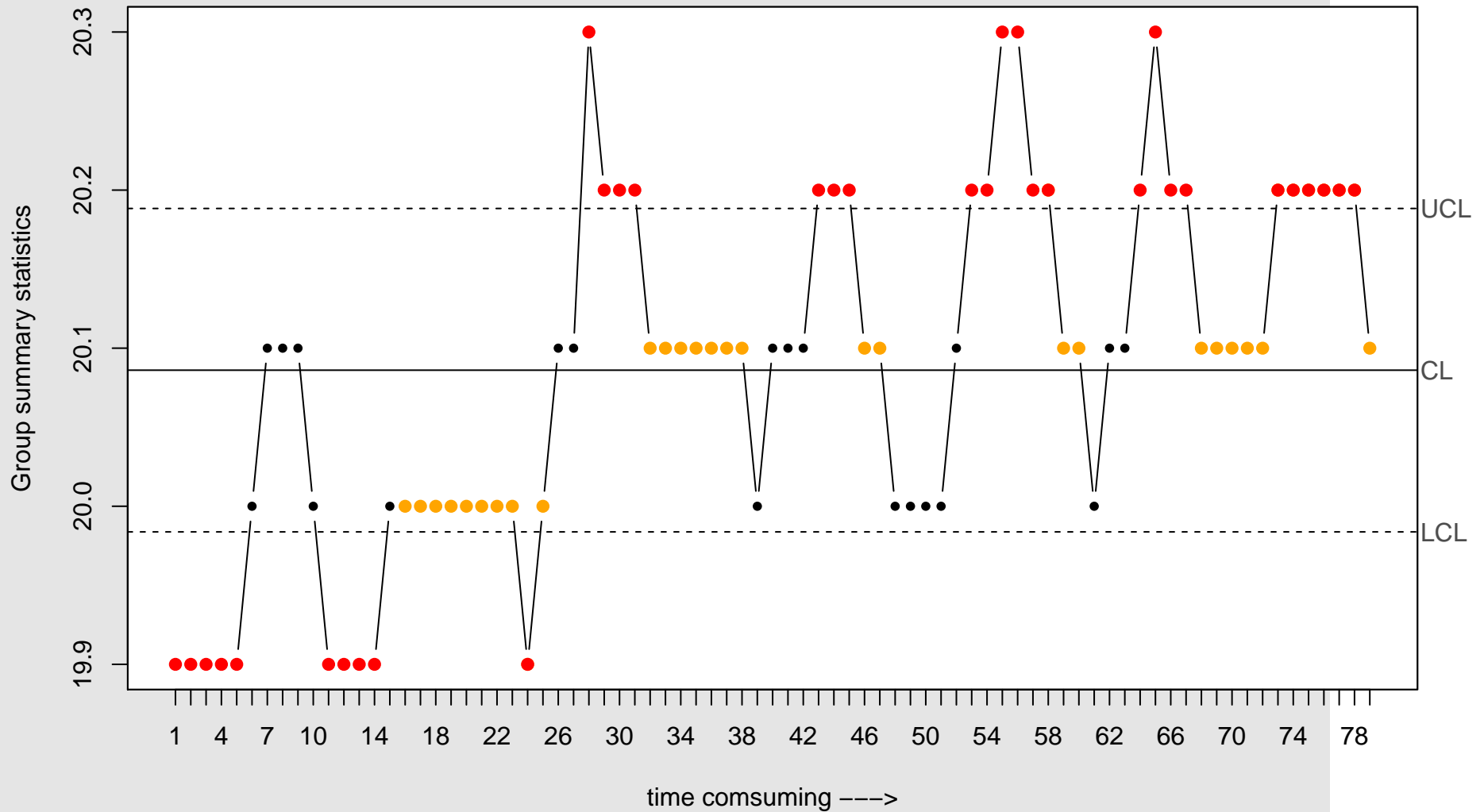


Number of groups = 79
 Center = 20.06203
 StdDev = 0.04773595

LCL = 19.91882
 UCL = 20.20523

Number beyond limits = 7
 Number violating runs = 17

218th column point of this product

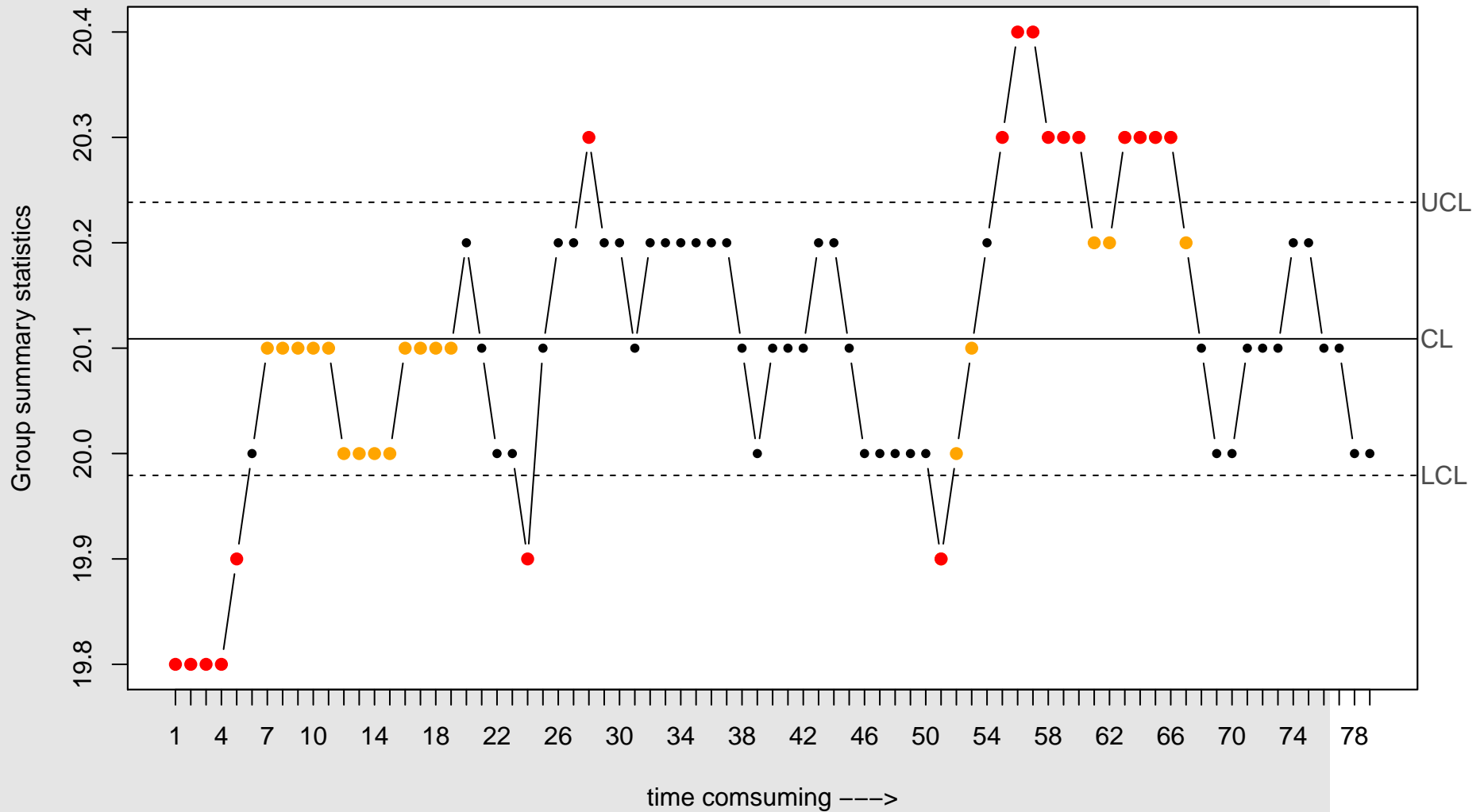


Number of groups = 79
 Center = 20.08608
 StdDev = 0.03409711

LCL = 19.98378
 UCL = 20.18837

Number beyond limits = 33
 Number violating runs = 34

219th column point of this product

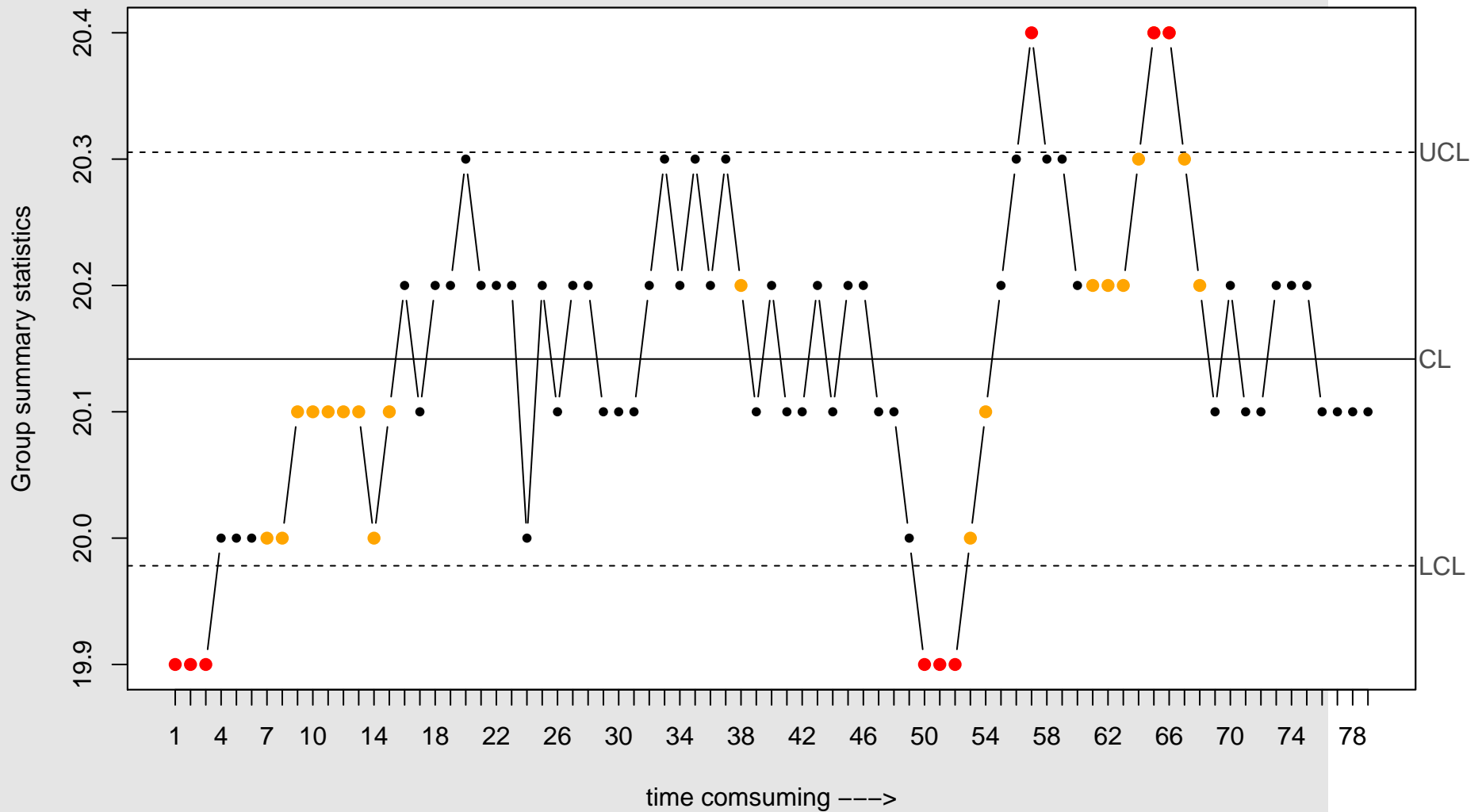


Number of groups = 79
 Center = 20.10886
 StdDev = 0.04318967

LCL = 19.97929
 UCL = 20.23843

Number beyond limits = 18
 Number violating runs = 24

220th column point of this product

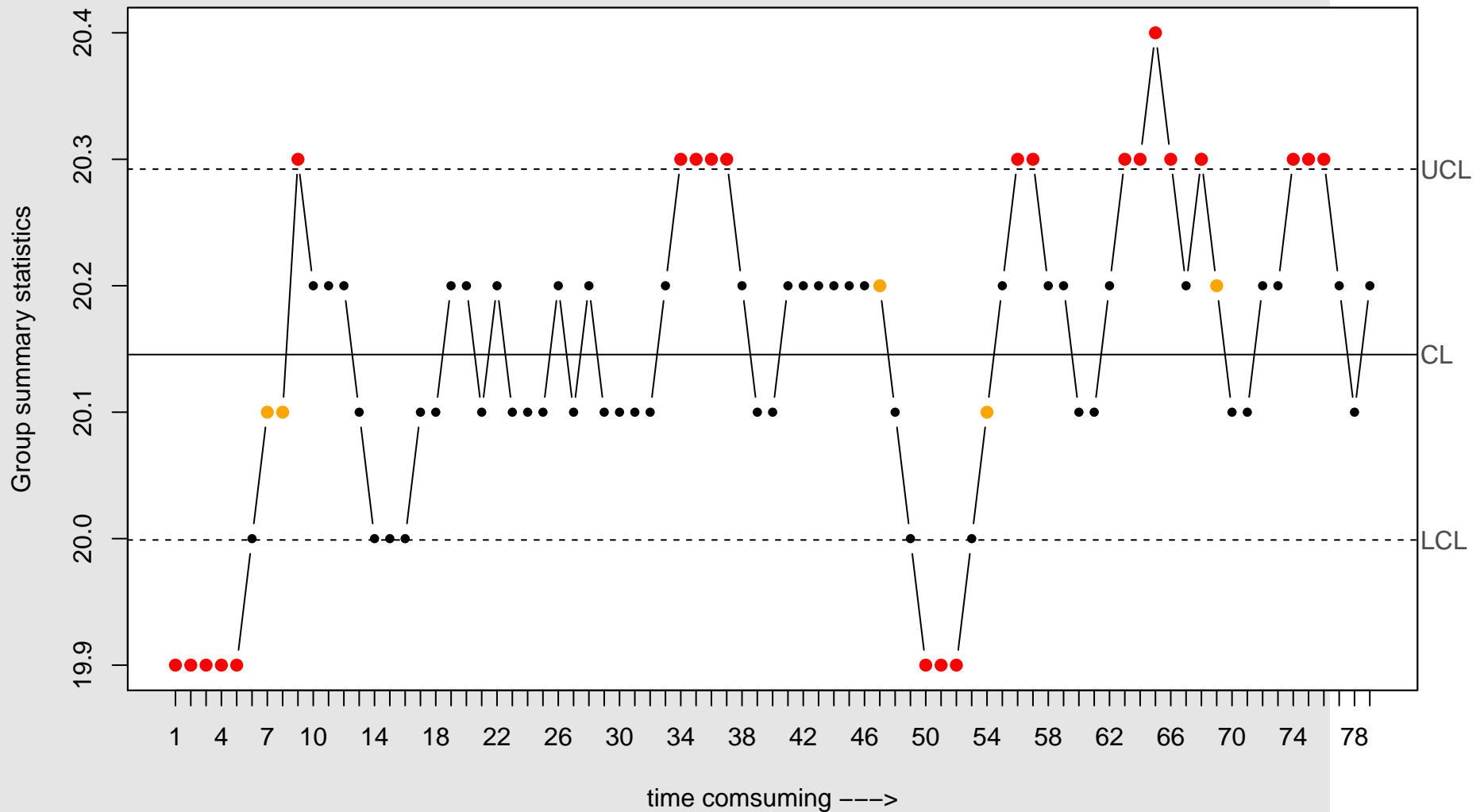


Number of groups = 79
 Center = 20.14177
 StdDev = 0.05455537

LCL = 19.97811
 UCL = 20.30544

Number beyond limits = 9
 Number violating runs = 20

221th column point of this product

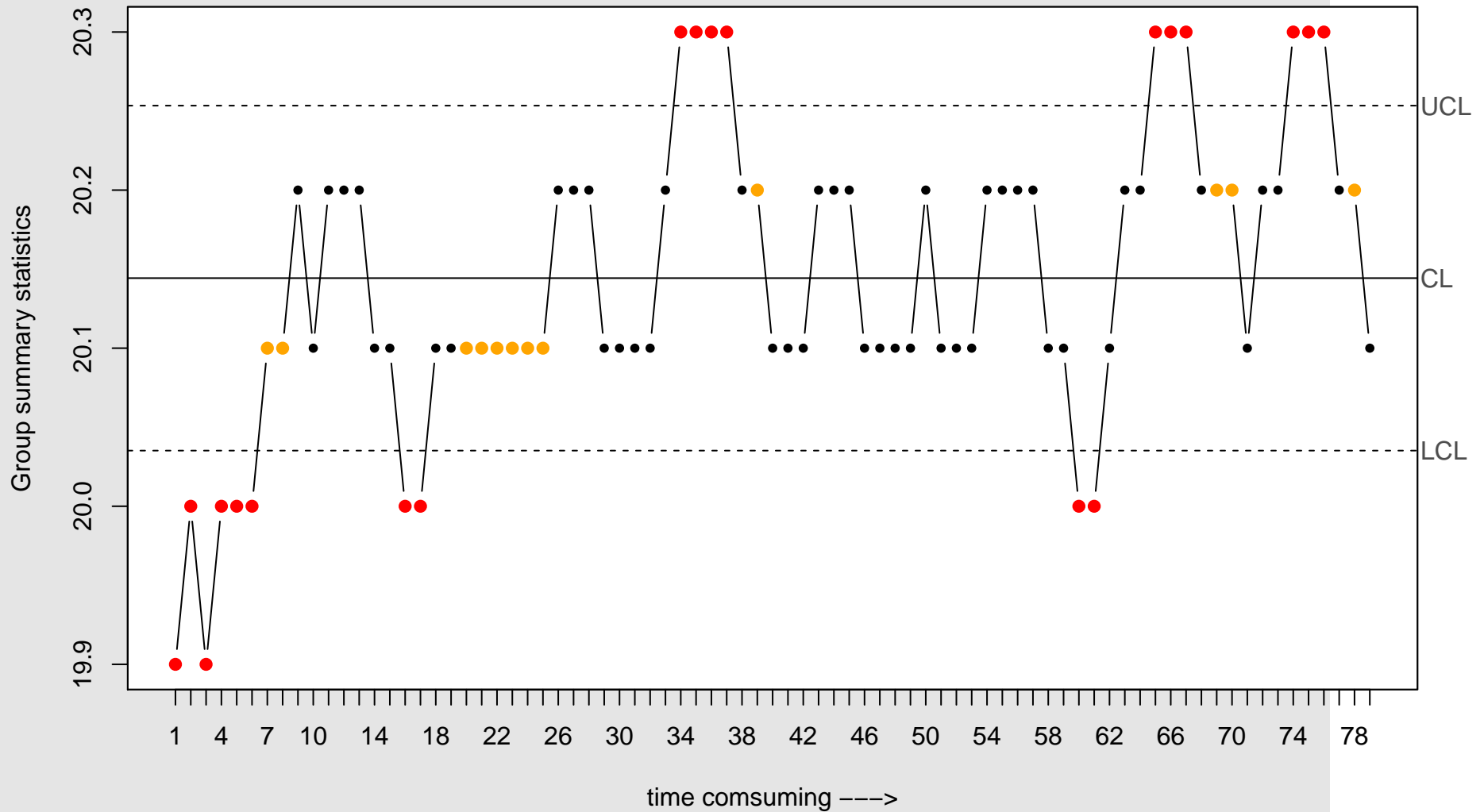


Number of groups = 79
 Center = 20.14557
 StdDev = 0.04887252

LCL = 19.99895
 UCL = 20.29219

Number beyond limits = 23
 Number violating runs = 6

222th column point of this product

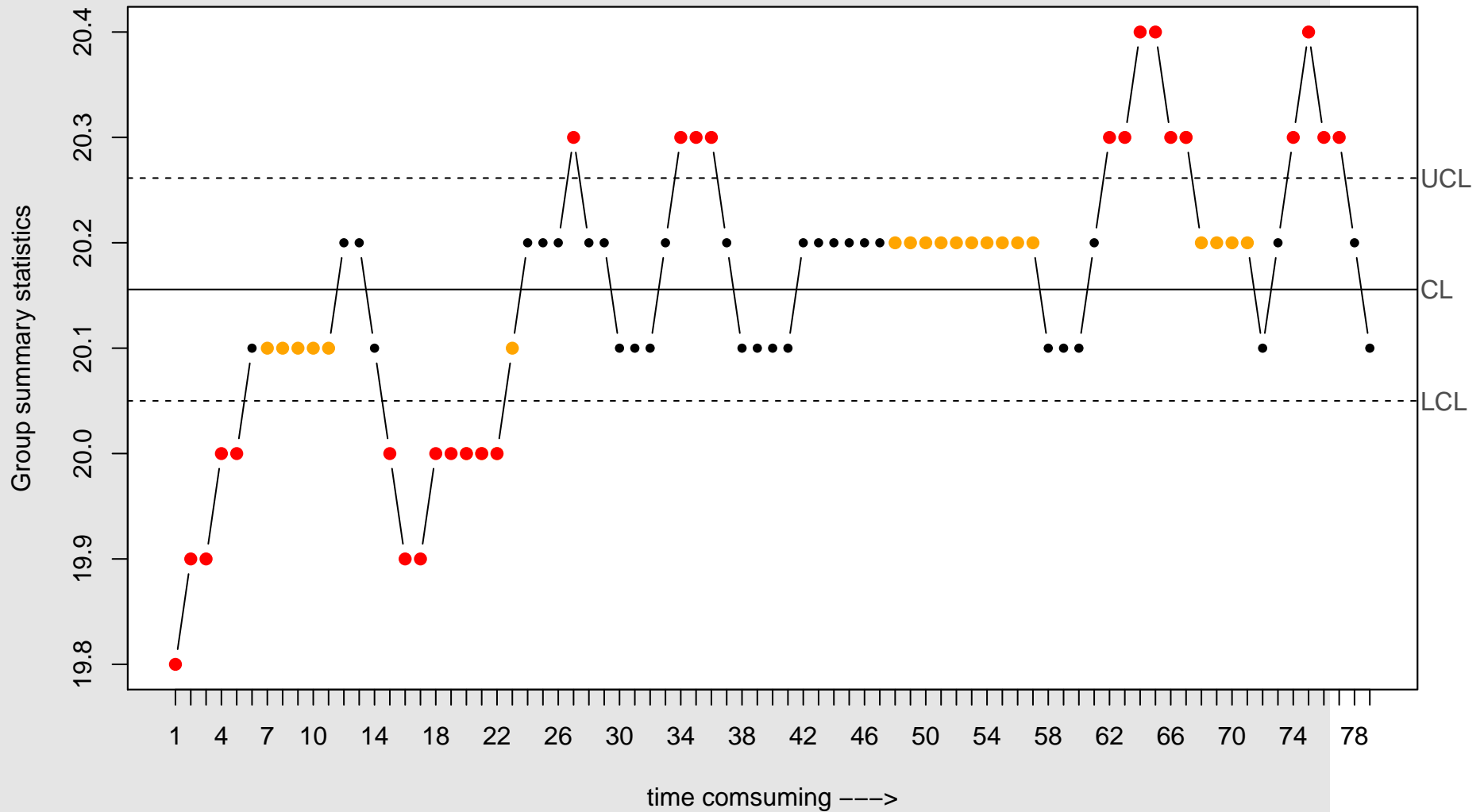


Number of groups = 79
 Center = 20.1443
 StdDev = 0.03637025

LCL = 20.03519
 UCL = 20.25341

Number beyond limits = 20
 Number violating runs = 12

223th column point of this product

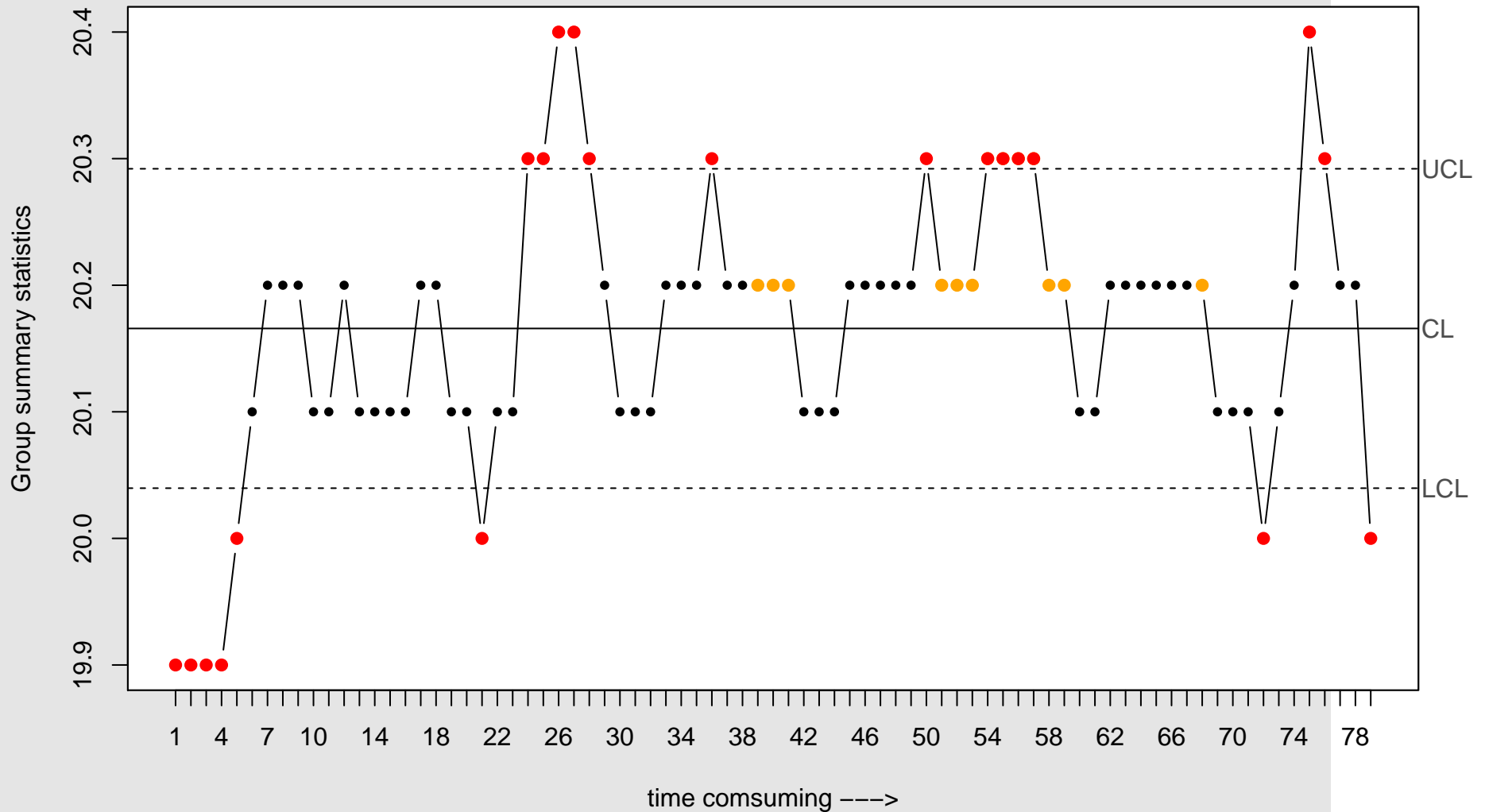


Number of groups = 79
 Center = 20.1557
 StdDev = 0.03523368

LCL = 20.05
 UCL = 20.2614

Number beyond limits = 27
 Number violating runs = 24

224th column point of this product



Number of groups = 79

Center = 20.16582

StdDev = 0.0420531

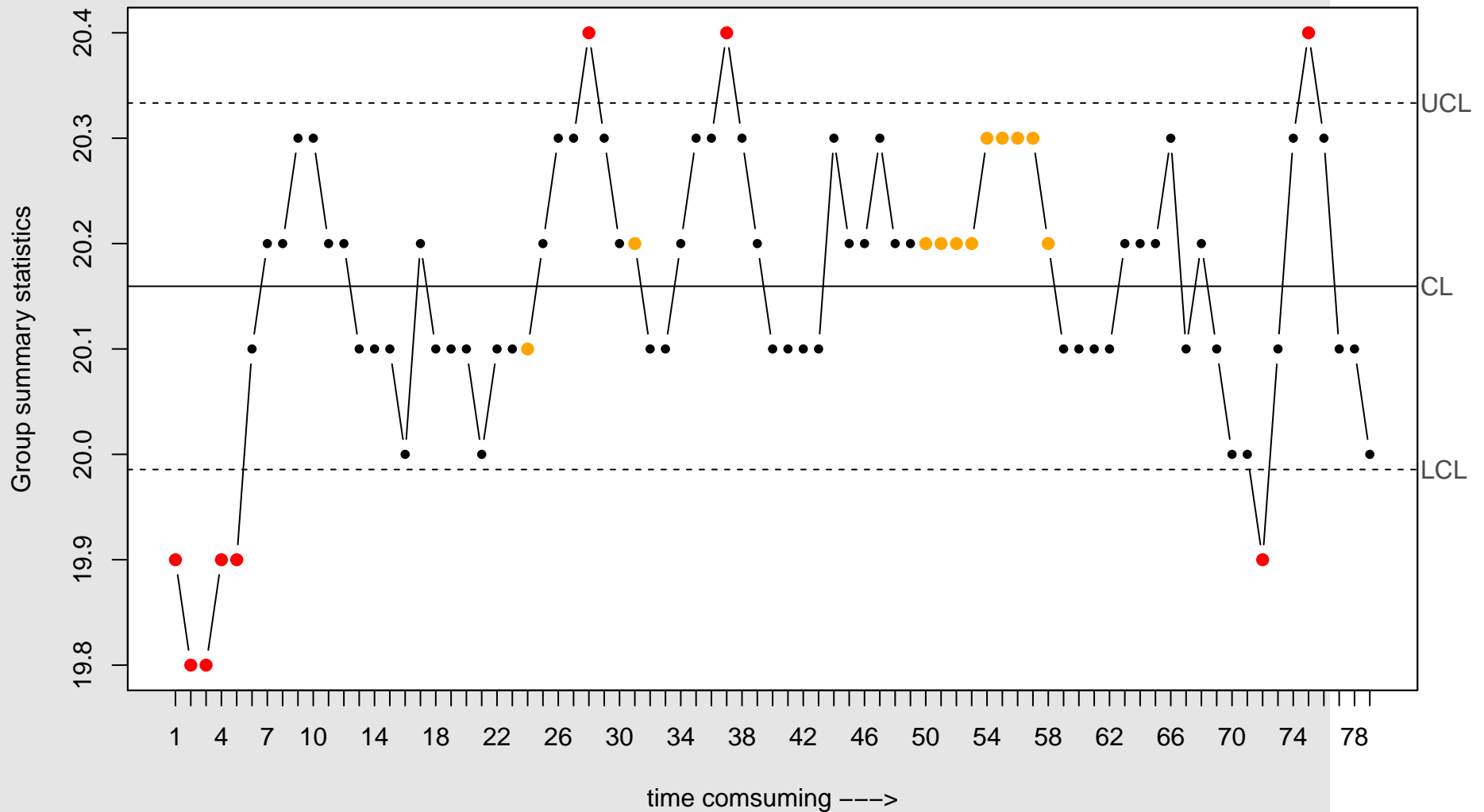
LCL = 20.03966

UCL = 20.29198

Number beyond limits = 21

Number violating runs = 13

225th column point of this product



Number of groups = 79

Center = 20.15949

StdDev = 0.05796508

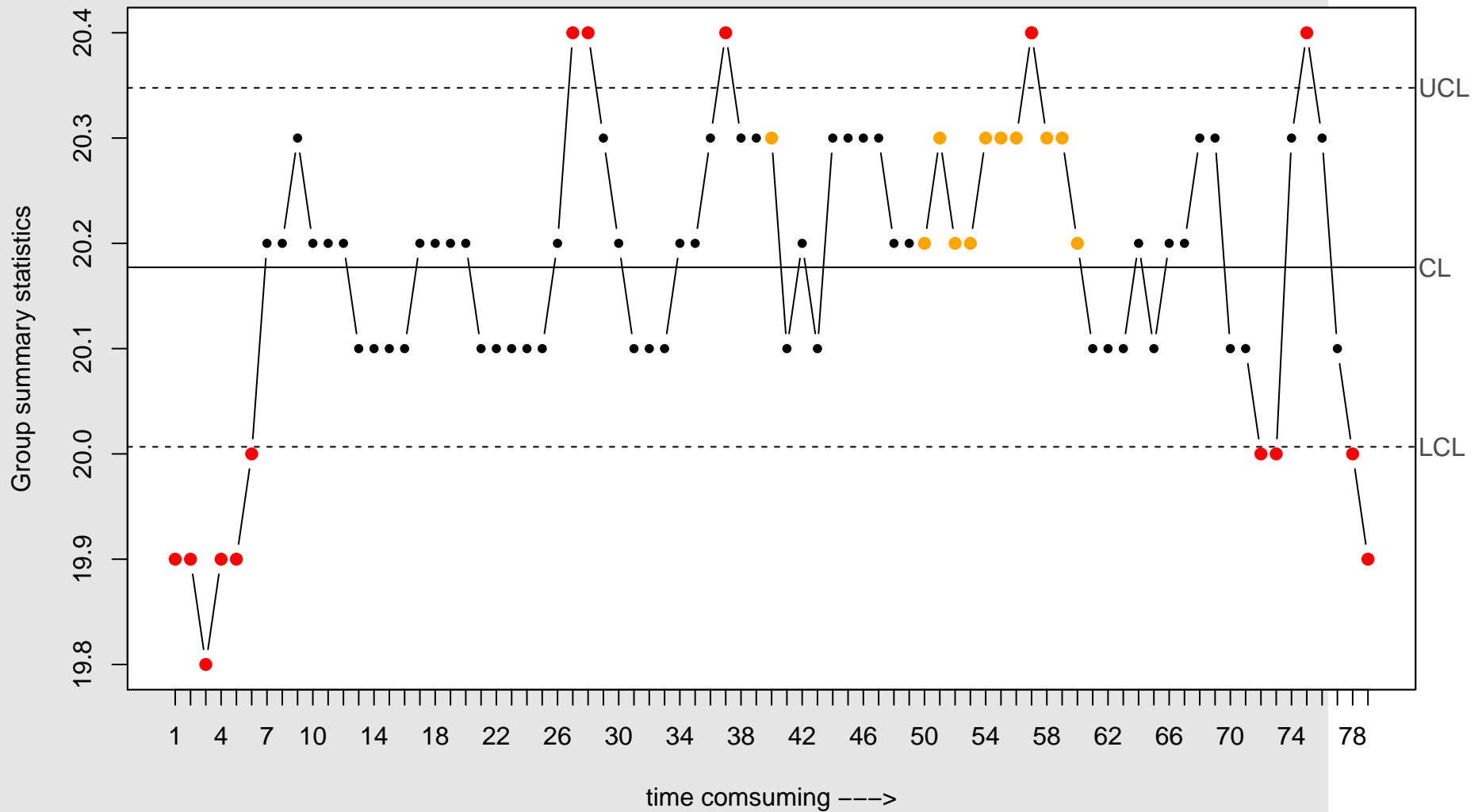
LCL = 19.9856

UCL = 20.33339

Number beyond limits = 9

Number violating runs = 11

226th column point of this product

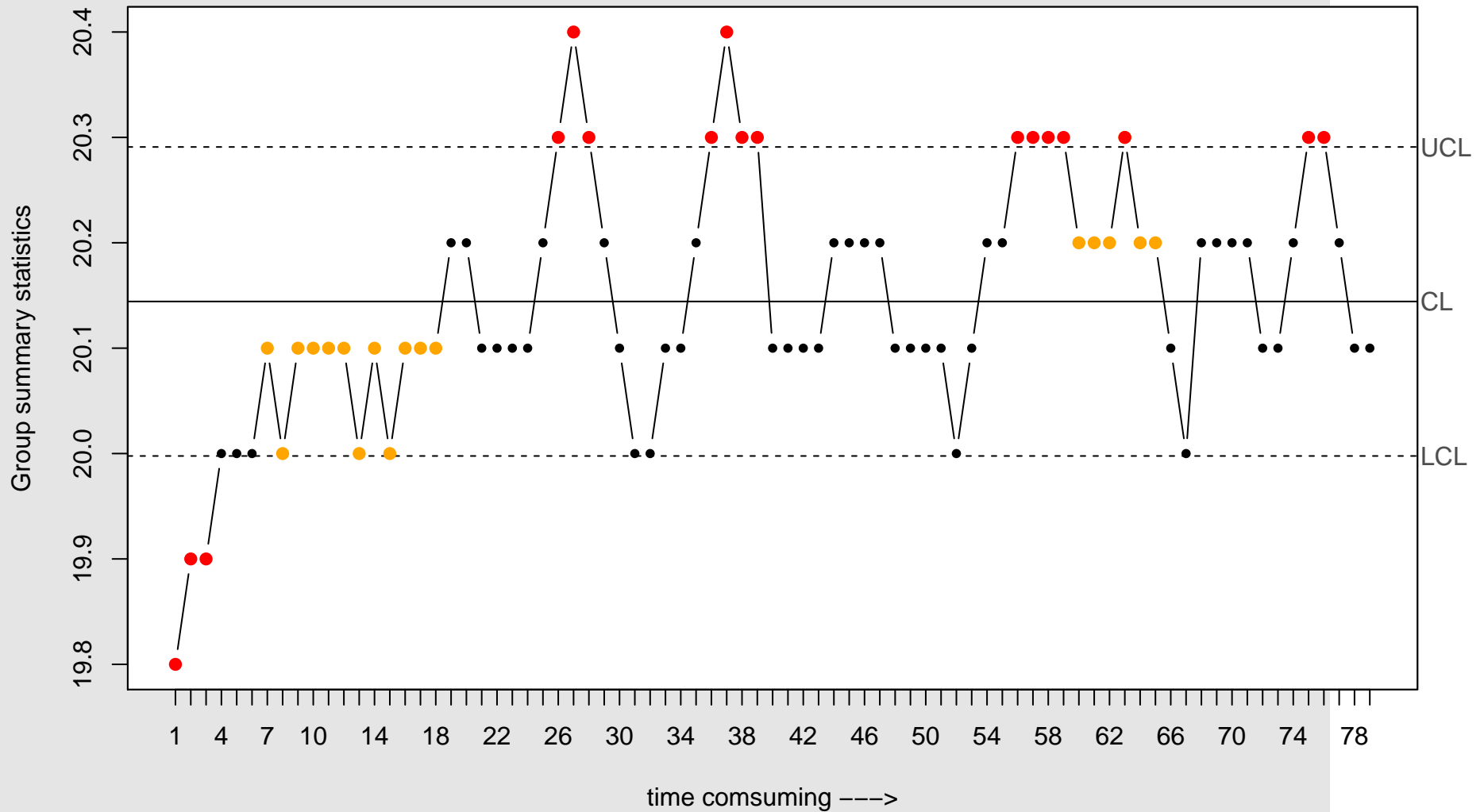


Number of groups = 79
Center = 20.17722
StdDev = 0.05682851

LCL = 20.00673
UCL = 20.3477

Number beyond limits = 15
Number violating runs = 12

227th column point of this product

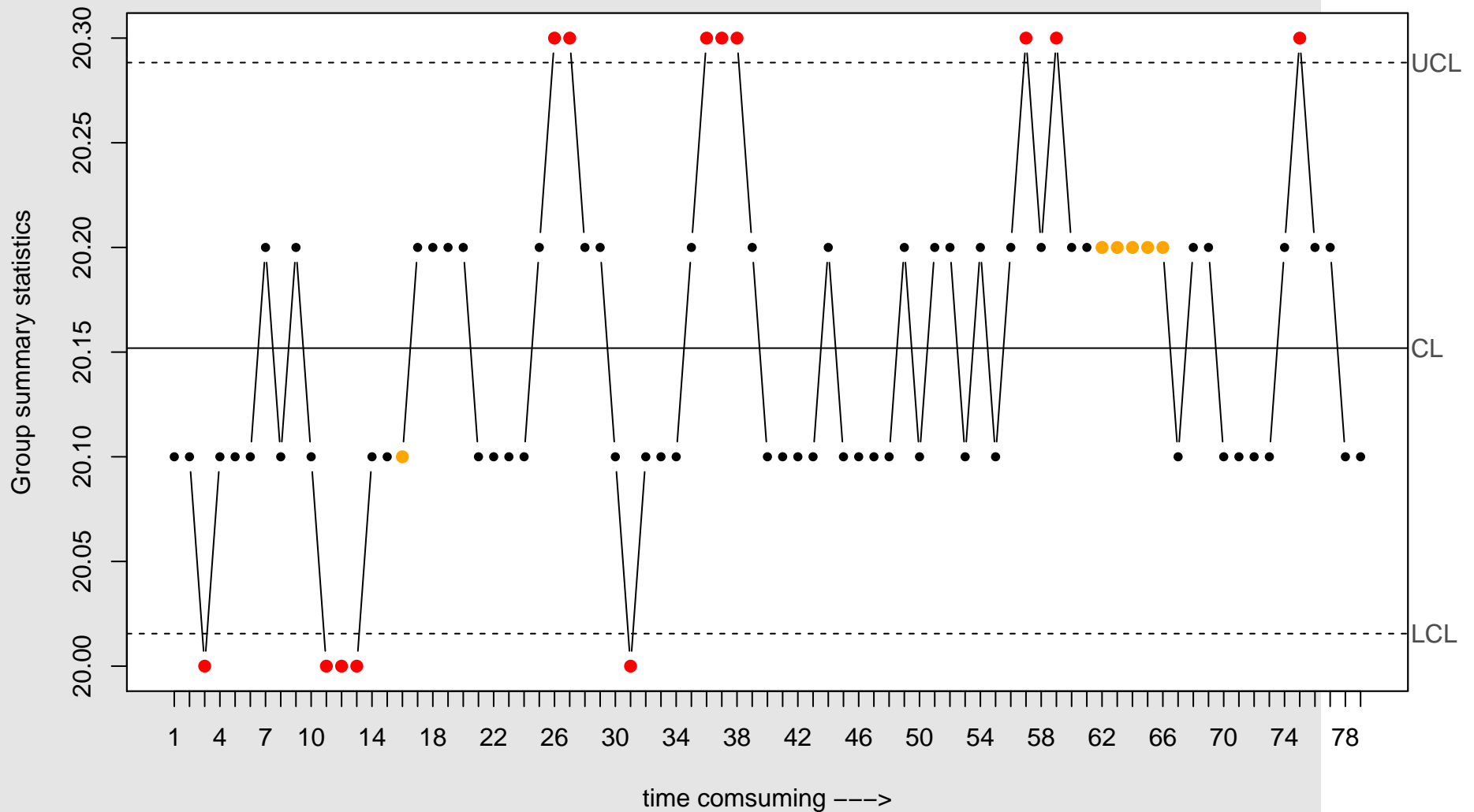


Number of groups = 79
 Center = 20.1443
 StdDev = 0.04887252

LCL = 19.99769
 UCL = 20.29092

Number beyond limits = 17
 Number violating runs = 18

228th column point of this product

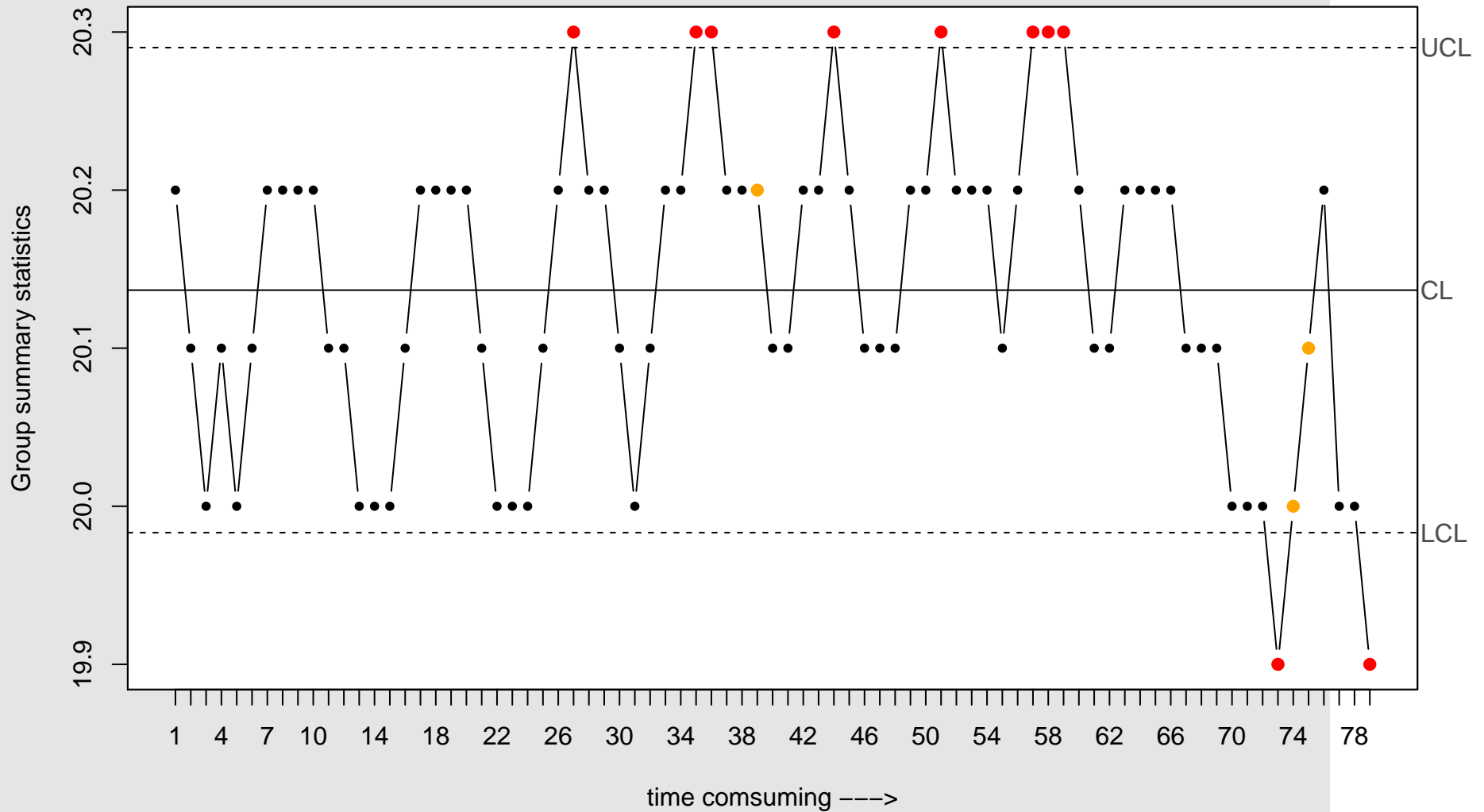


Number of groups = 79
 Center = 20.1519
 StdDev = 0.04546281

LCL = 20.01551
 UCL = 20.28829

Number beyond limits = 13
 Number violating runs = 6

229th column point of this product

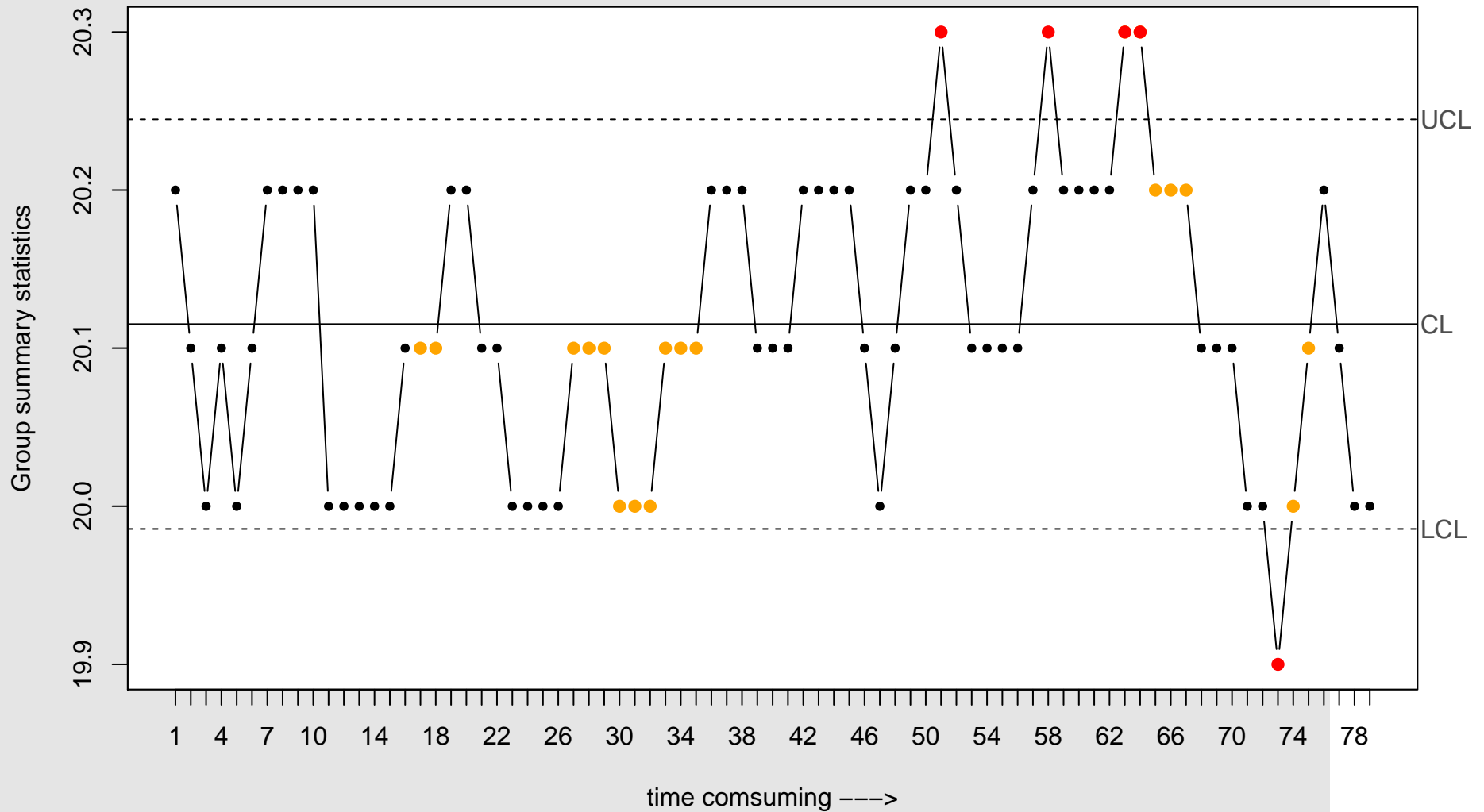


Number of groups = 79
 Center = 20.13671
 StdDev = 0.05114566

LCL = 19.98327
 UCL = 20.29015

Number beyond limits = 10
 Number violating runs = 4

230th column point of this product



Number of groups = 79

Center = 20.11519

StdDev = 0.04318967

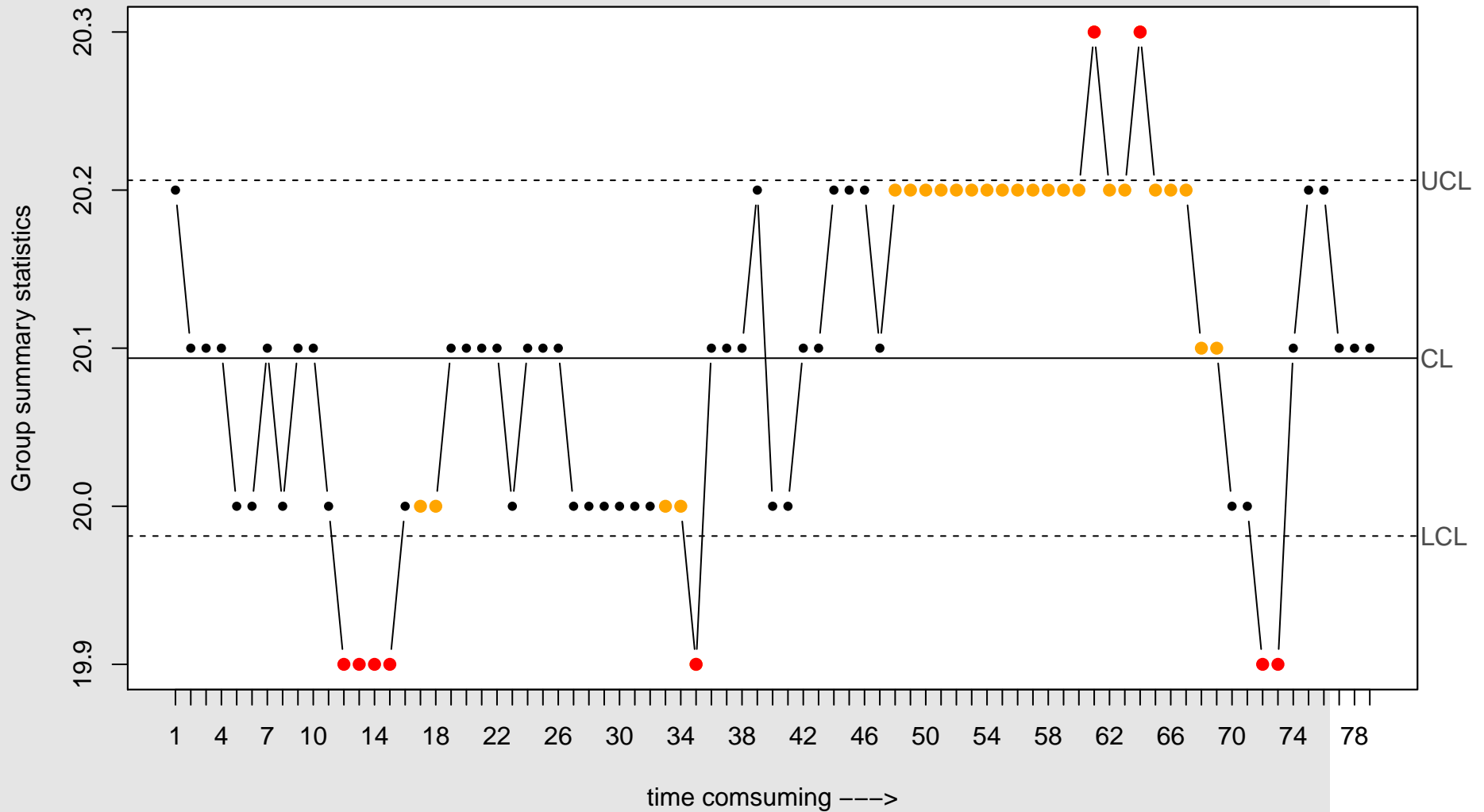
LCL = 19.98562

UCL = 20.24476

Number beyond limits = 5

Number violating runs = 18

231th column point of this product

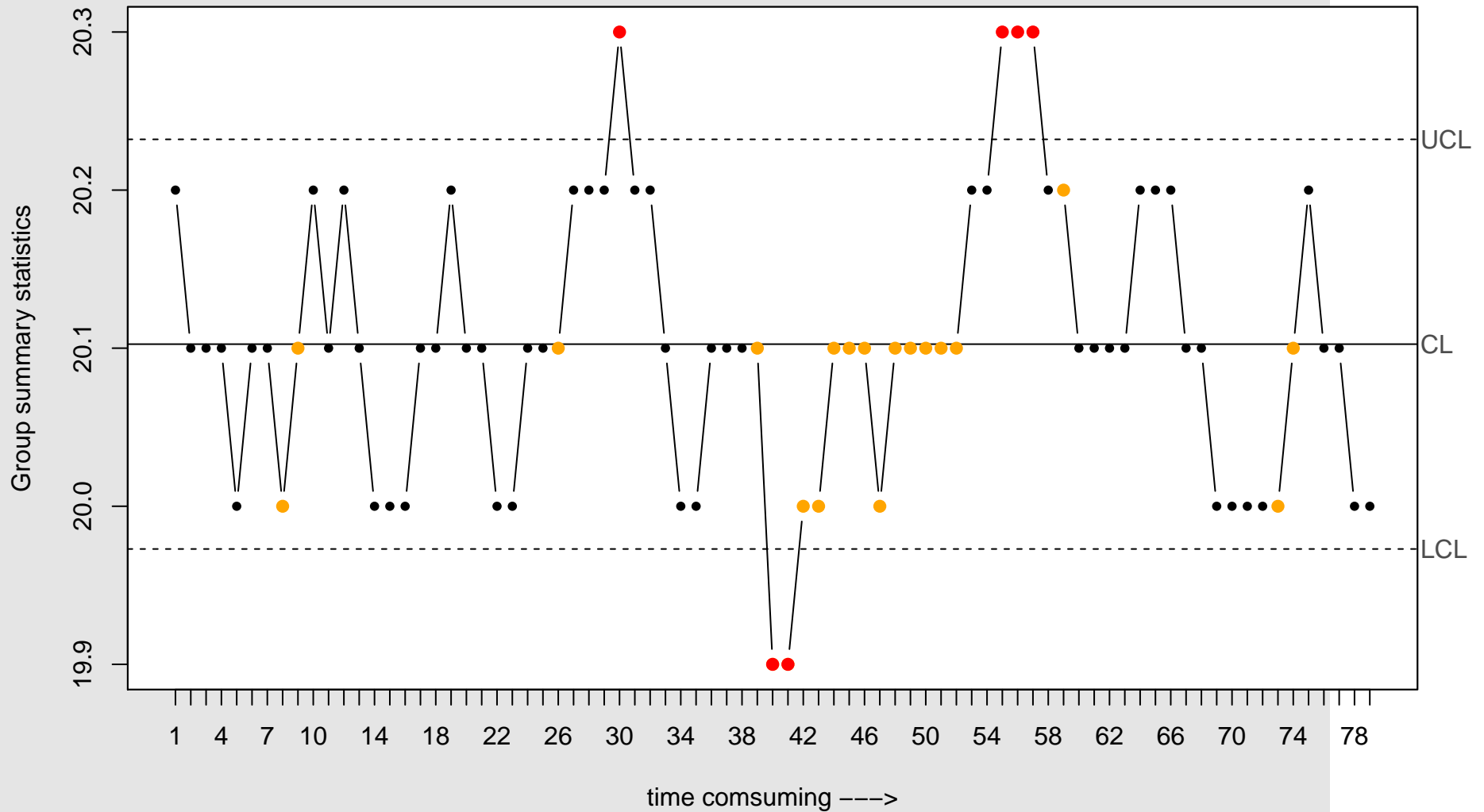


Number of groups = 79
 Center = 20.09367
 StdDev = 0.03750682

LCL = 19.98115
 UCL = 20.20619

Number beyond limits = 9
 Number violating runs = 27

232th column point of this product

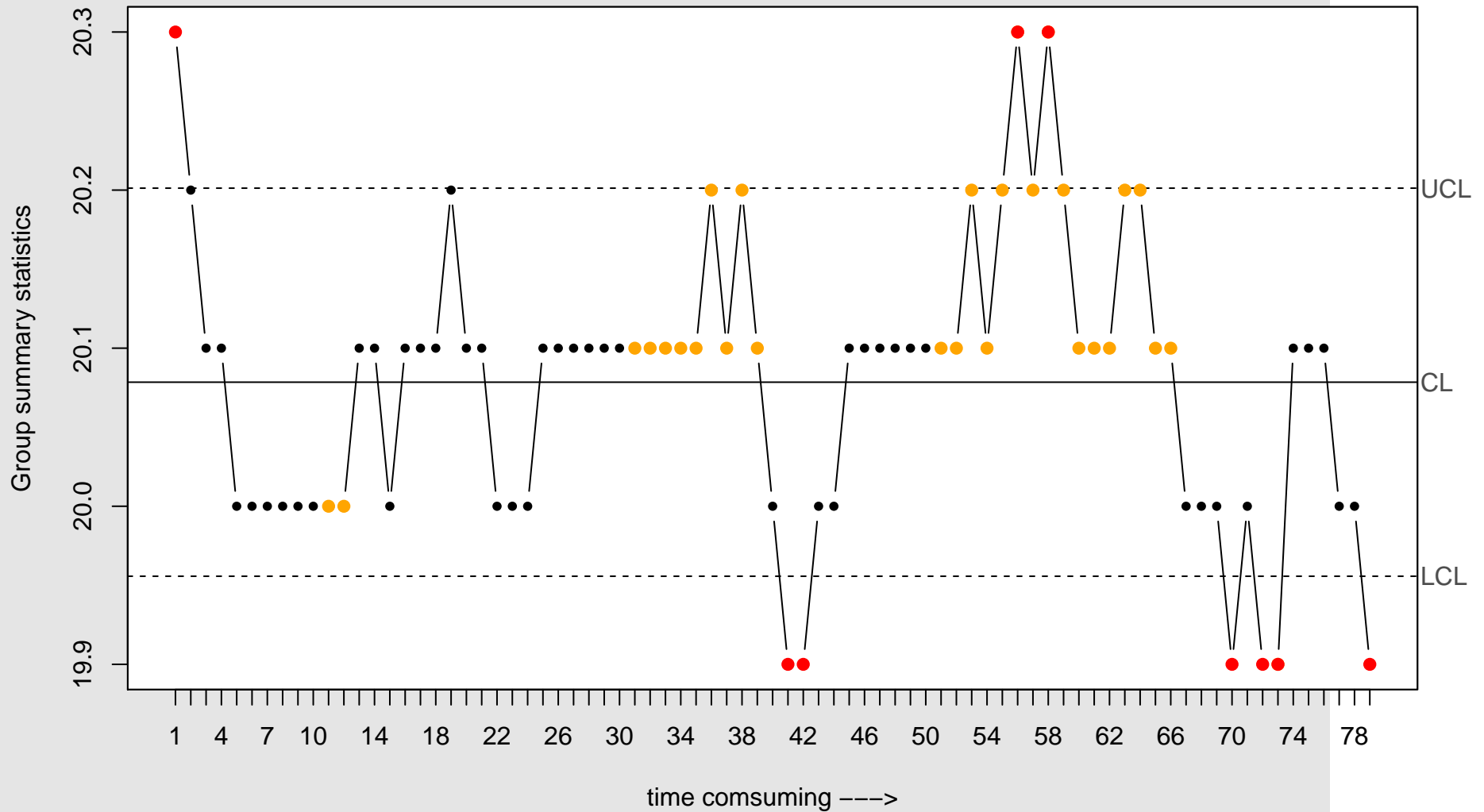


Number of groups = 79
 Center = 20.10253
 StdDev = 0.04318967

LCL = 19.97296
 UCL = 20.2321

Number beyond limits = 6
 Number violating runs = 20

233th column point of this product

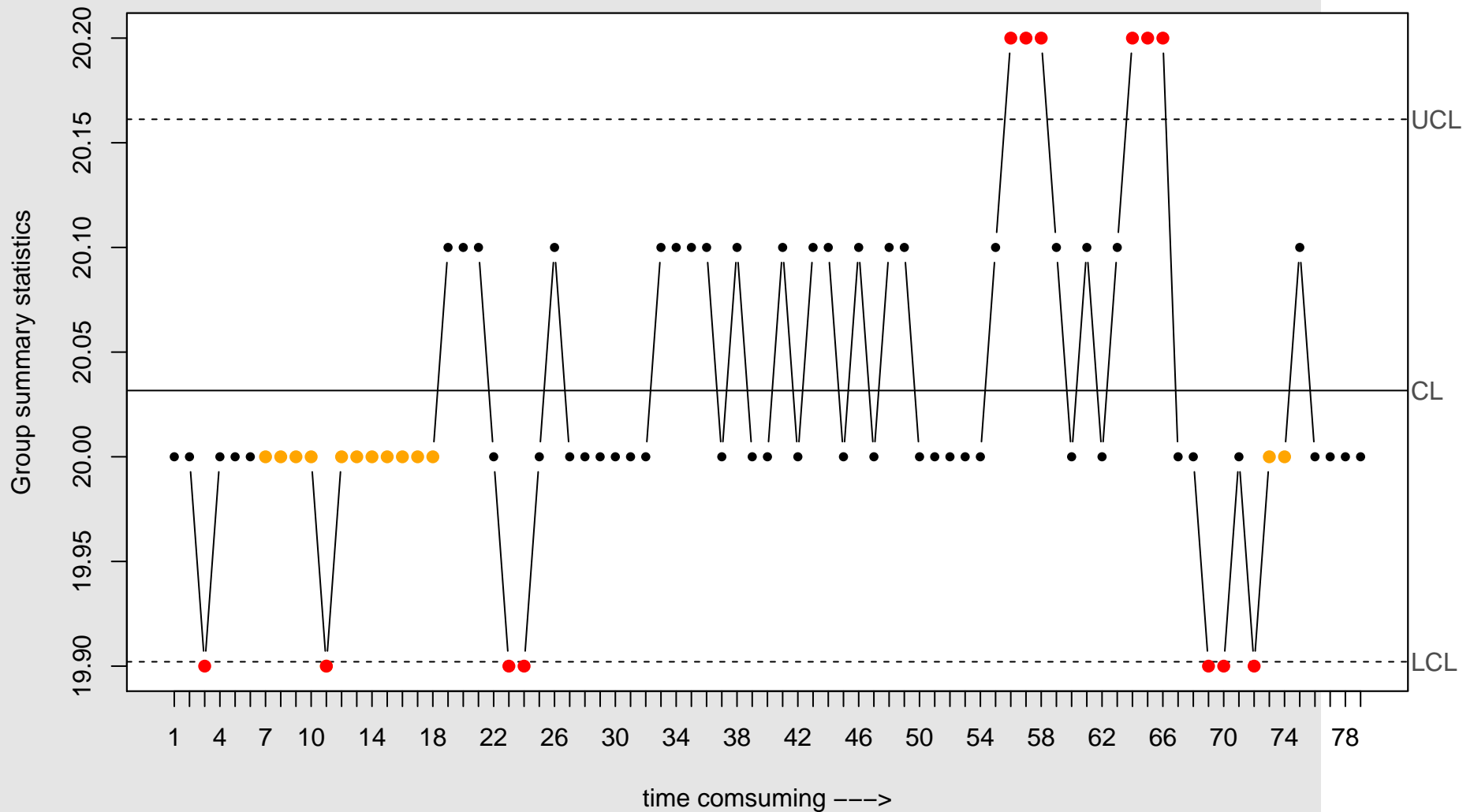


Number of groups = 79
 Center = 20.07848
 StdDev = 0.04091653

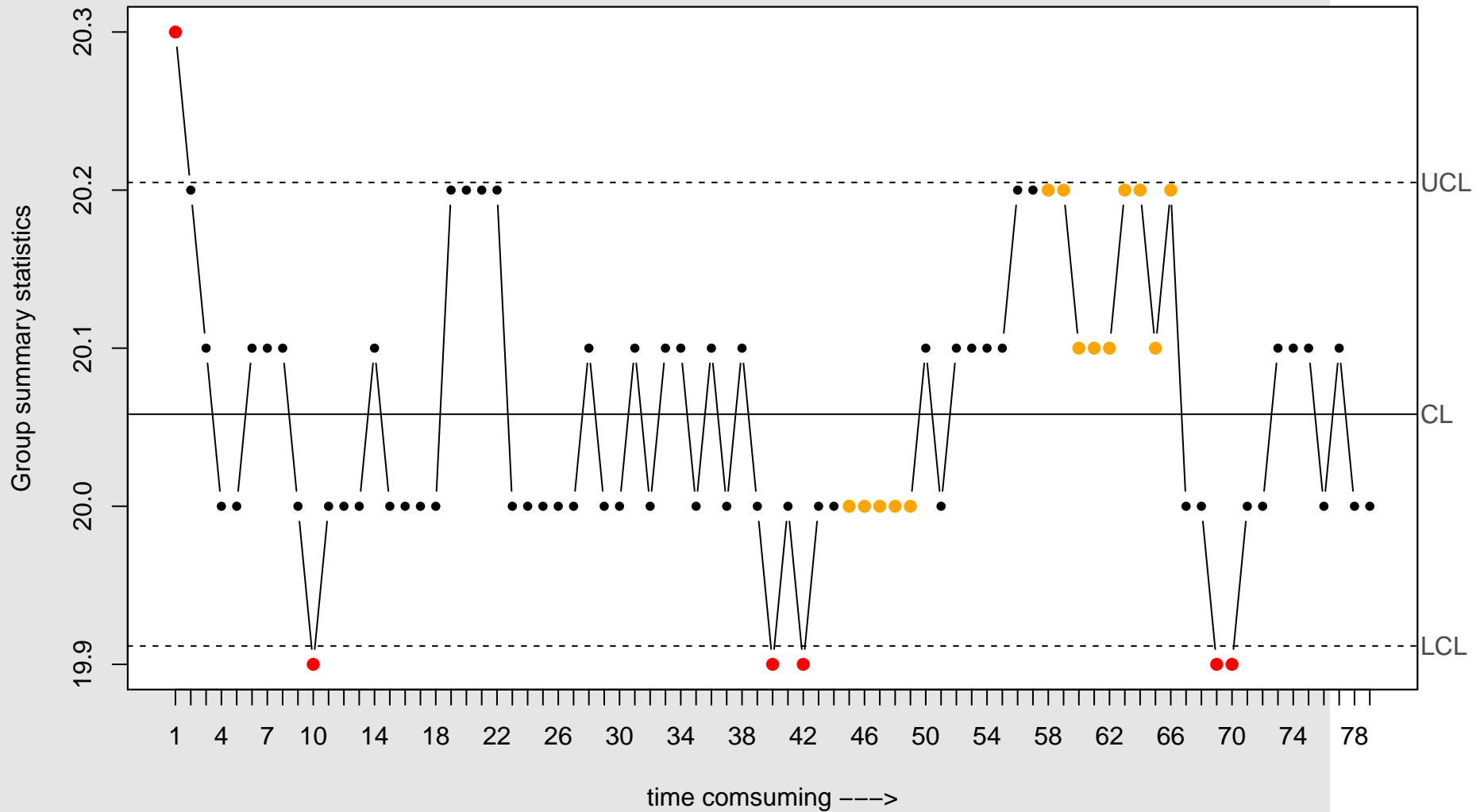
LCL = 19.95573
 UCL = 20.20123

Number beyond limits = 9
 Number violating runs = 28

234th column point of this product



235th column point of this product

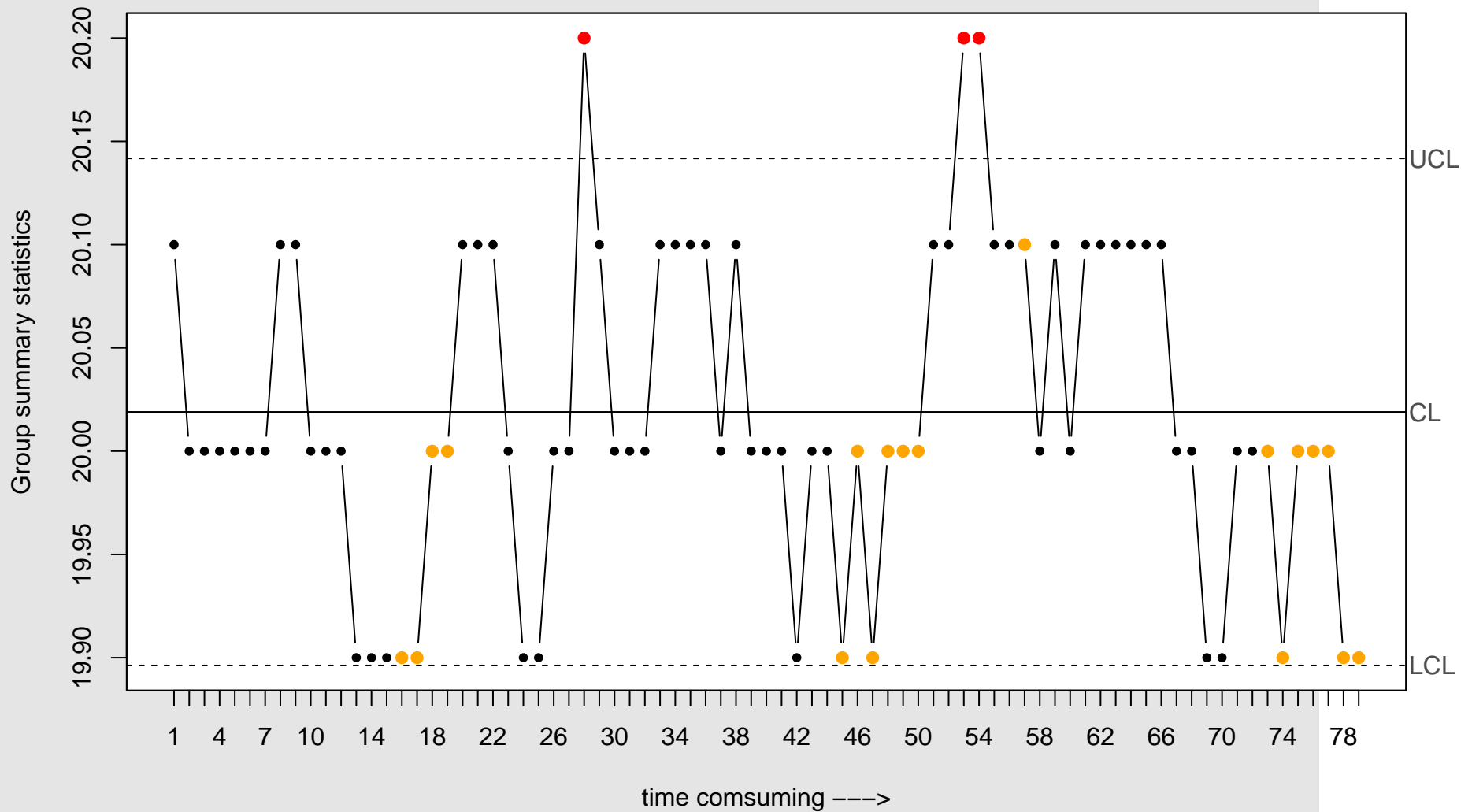


Number of groups = 79
 Center = 20.05823
 StdDev = 0.04887252

LCL = 19.91161
 UCL = 20.20485

Number beyond limits = 6
 Number violating runs = 14

236th column point of this product



Number of groups = 79

Center = 20.01899

StdDev = 0.04091653

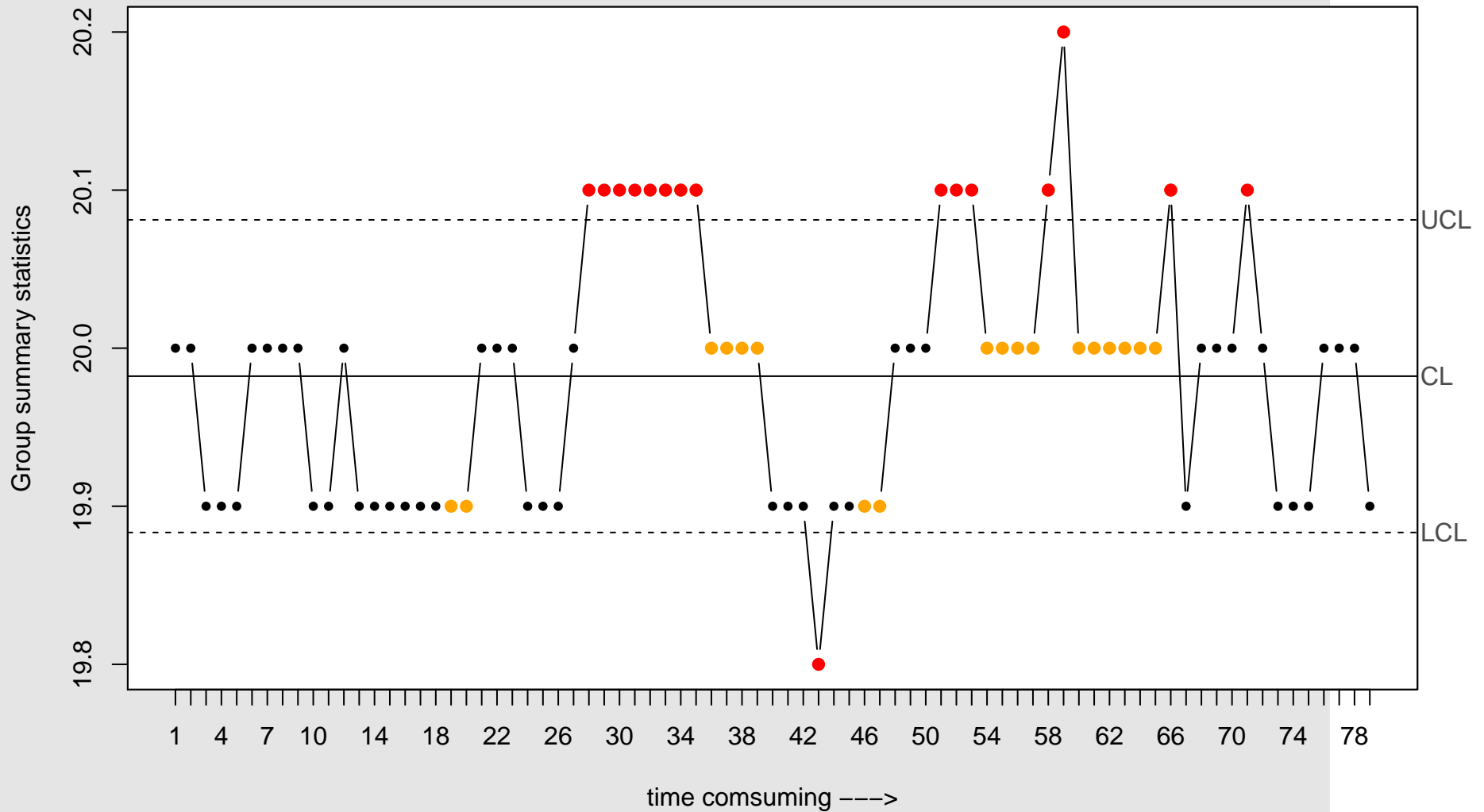
LCL = 19.89624

UCL = 20.14174

Number beyond limits = 3

Number violating runs = 18

237th column point of this product

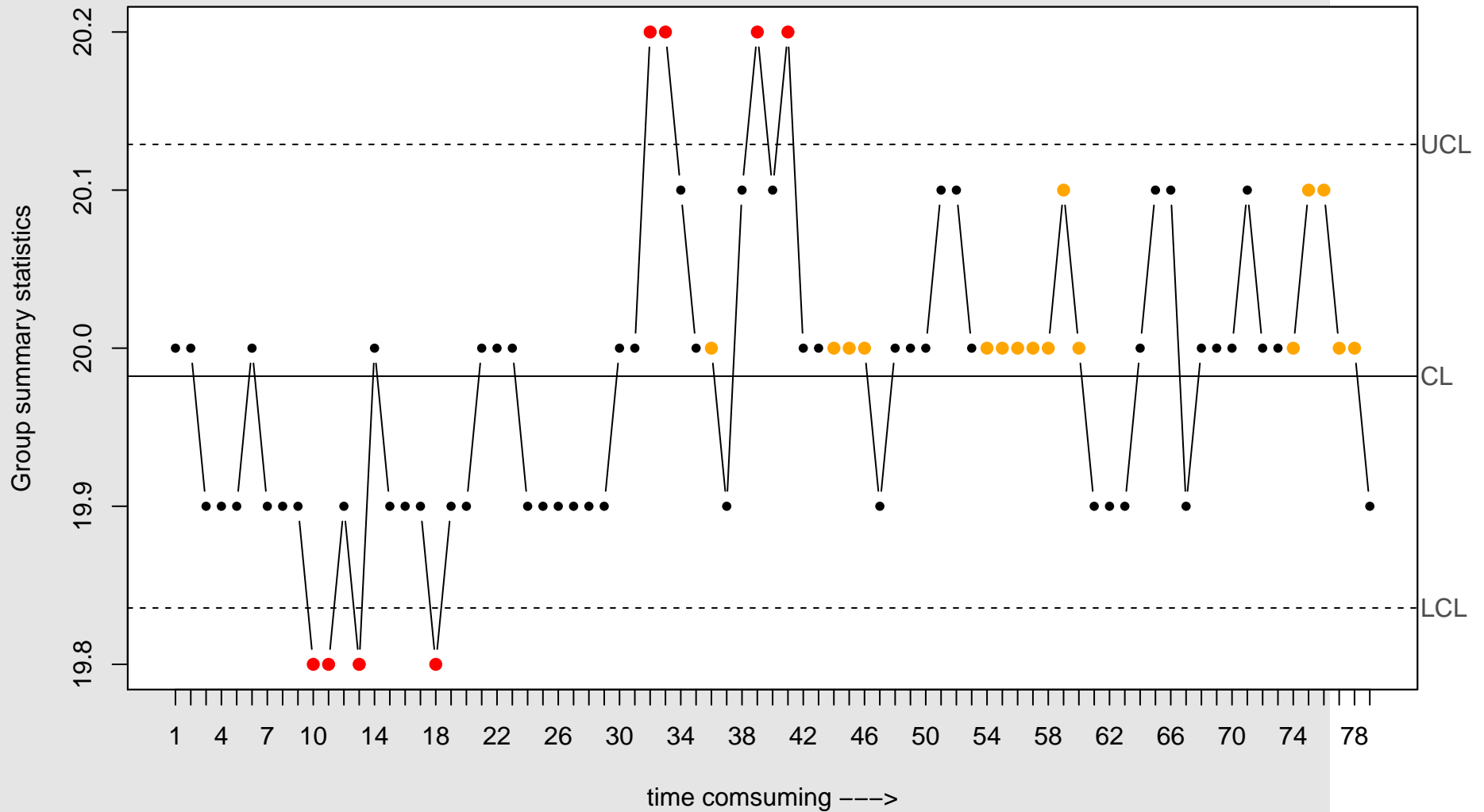


Number of groups = 79
 Center = 19.98228
 StdDev = 0.03296054

LCL = 19.8834
 UCL = 20.08116

Number beyond limits = 16
 Number violating runs = 24

238th column point of this product

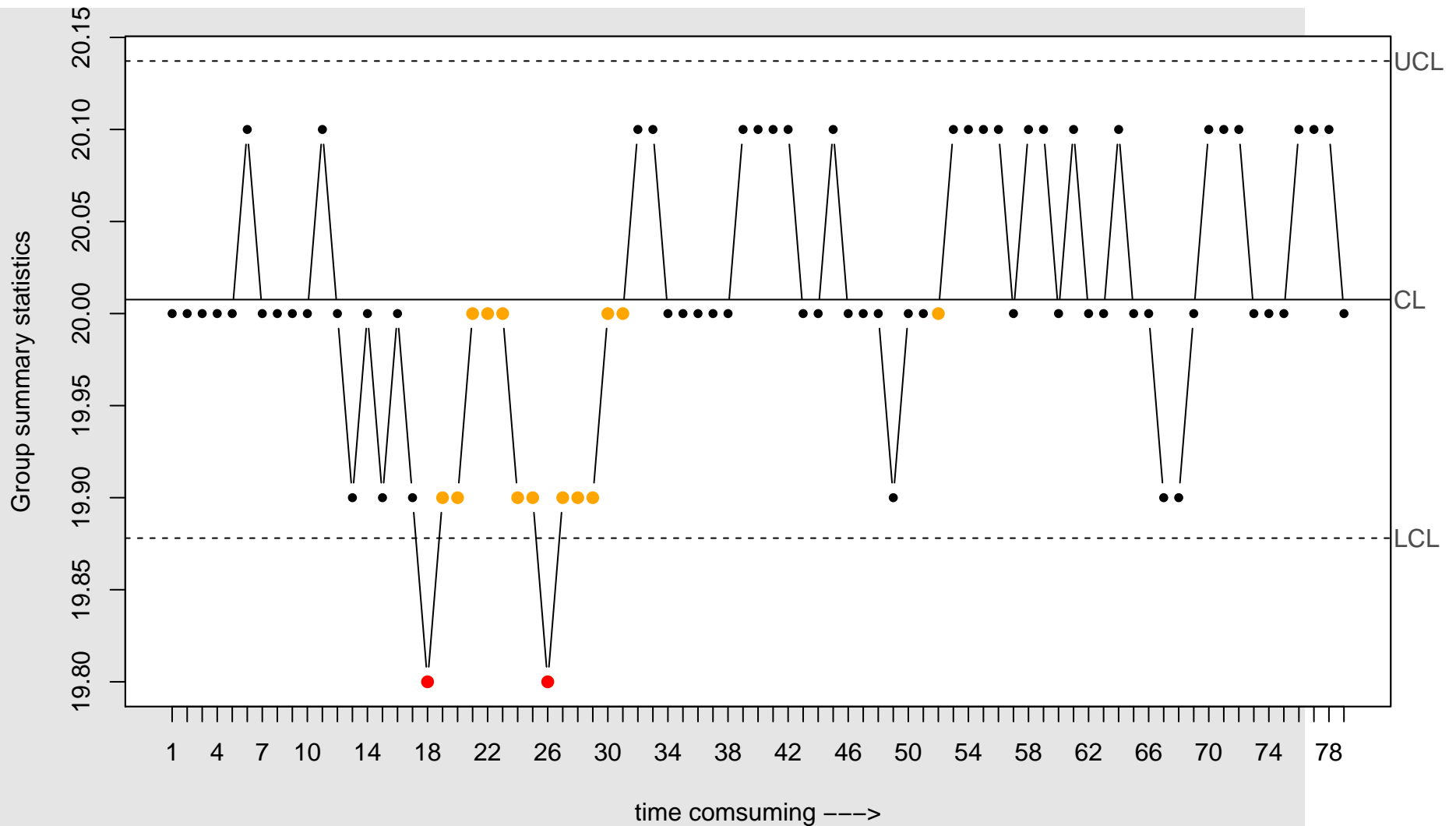


Number of groups = 79
Center = 19.98228
StdDev = 0.04887252

LCL = 19.83566
UCL = 20.1289

Number beyond limits = 8
Number violating runs = 17

239th column point of this product

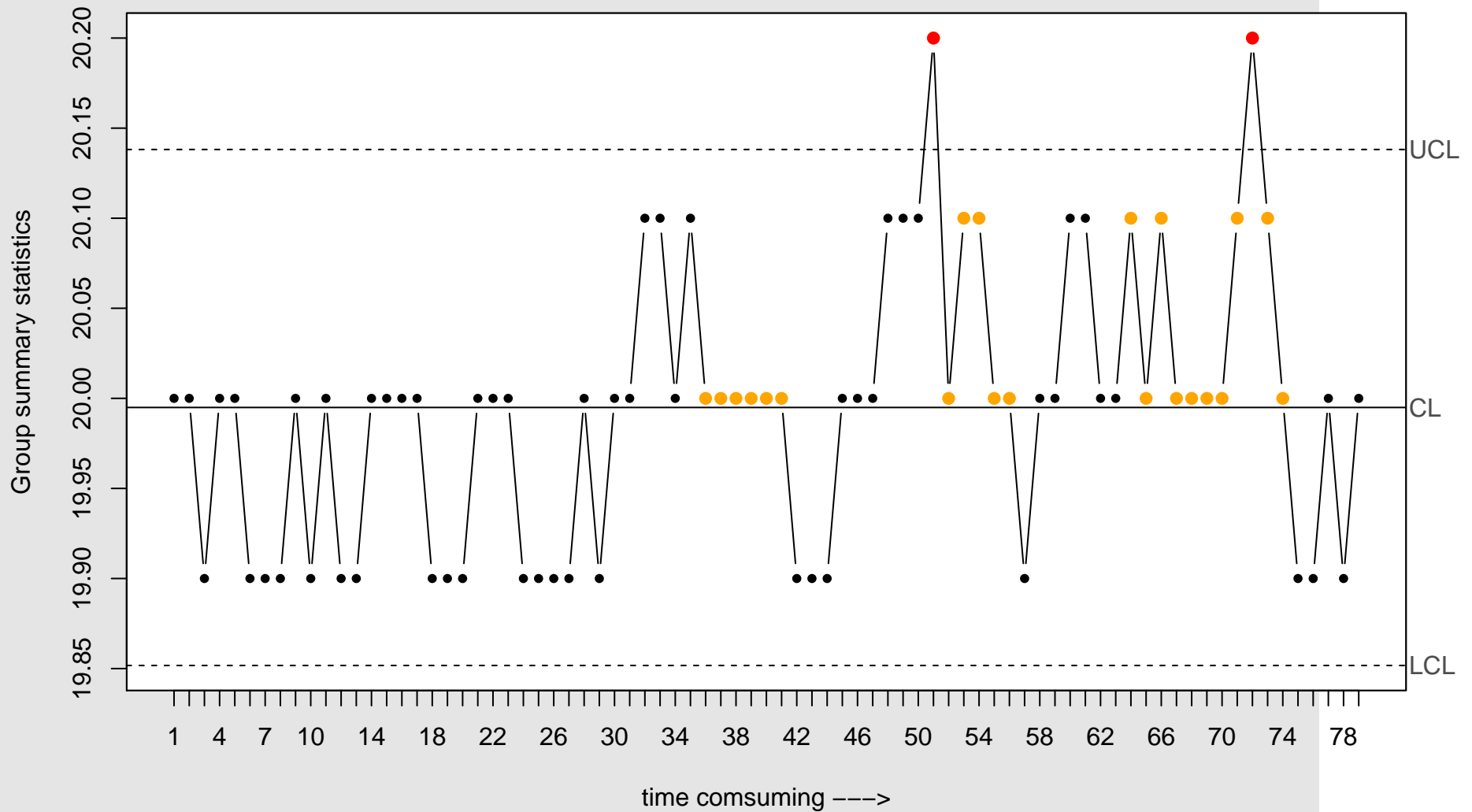


Number of groups = 79
Center = 20.00759
StdDev = 0.04318967

LCL = 19.87803
UCL = 20.13716

Number beyond limits = 2
Number violating runs = 15

240th column point of this product

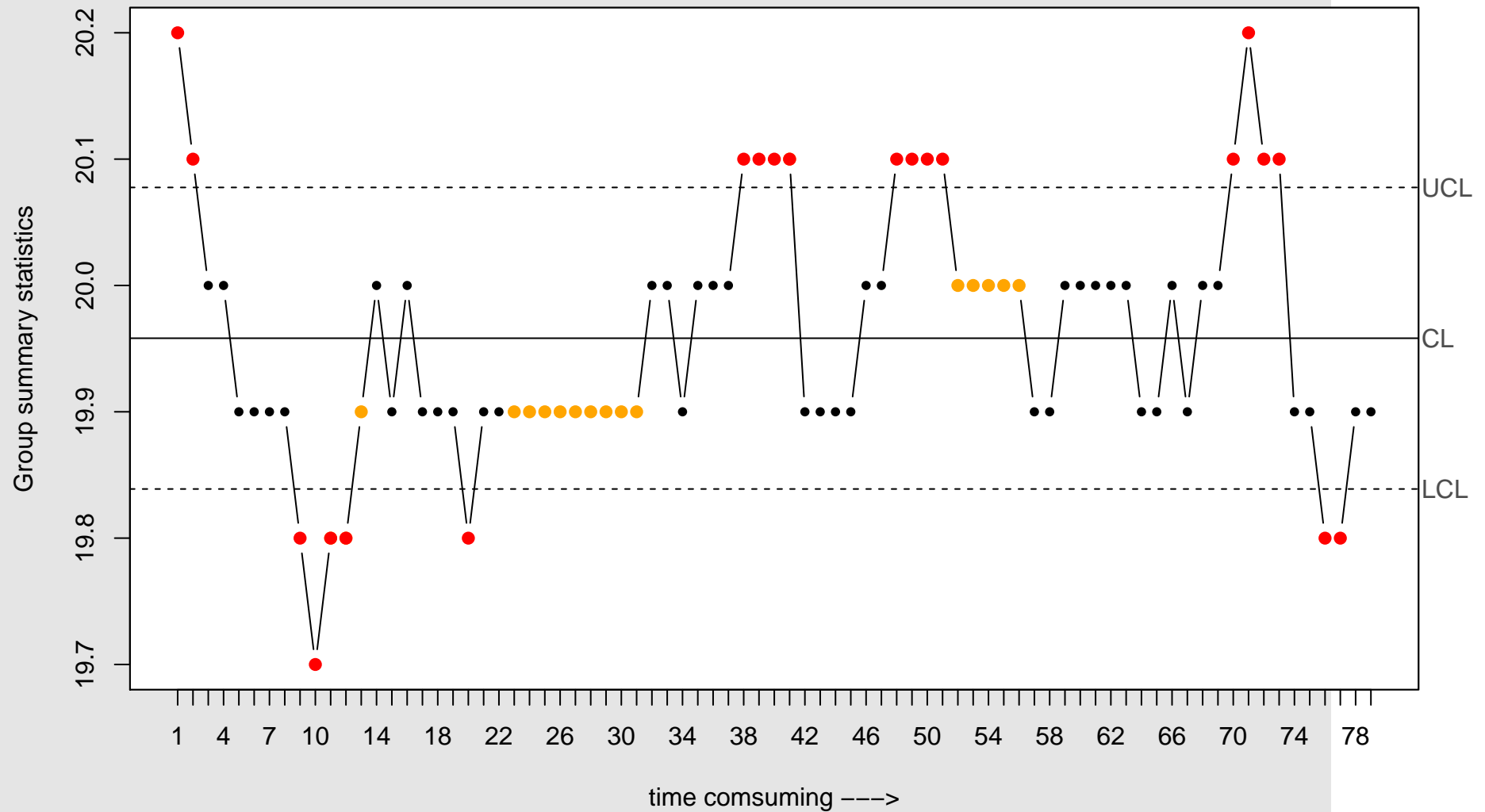


Number of groups = 79
 Center = 19.99494
 StdDev = 0.04773595

LCL = 19.85173
 UCL = 20.13814

Number beyond limits = 2
 Number violating runs = 23

241th column point of this product

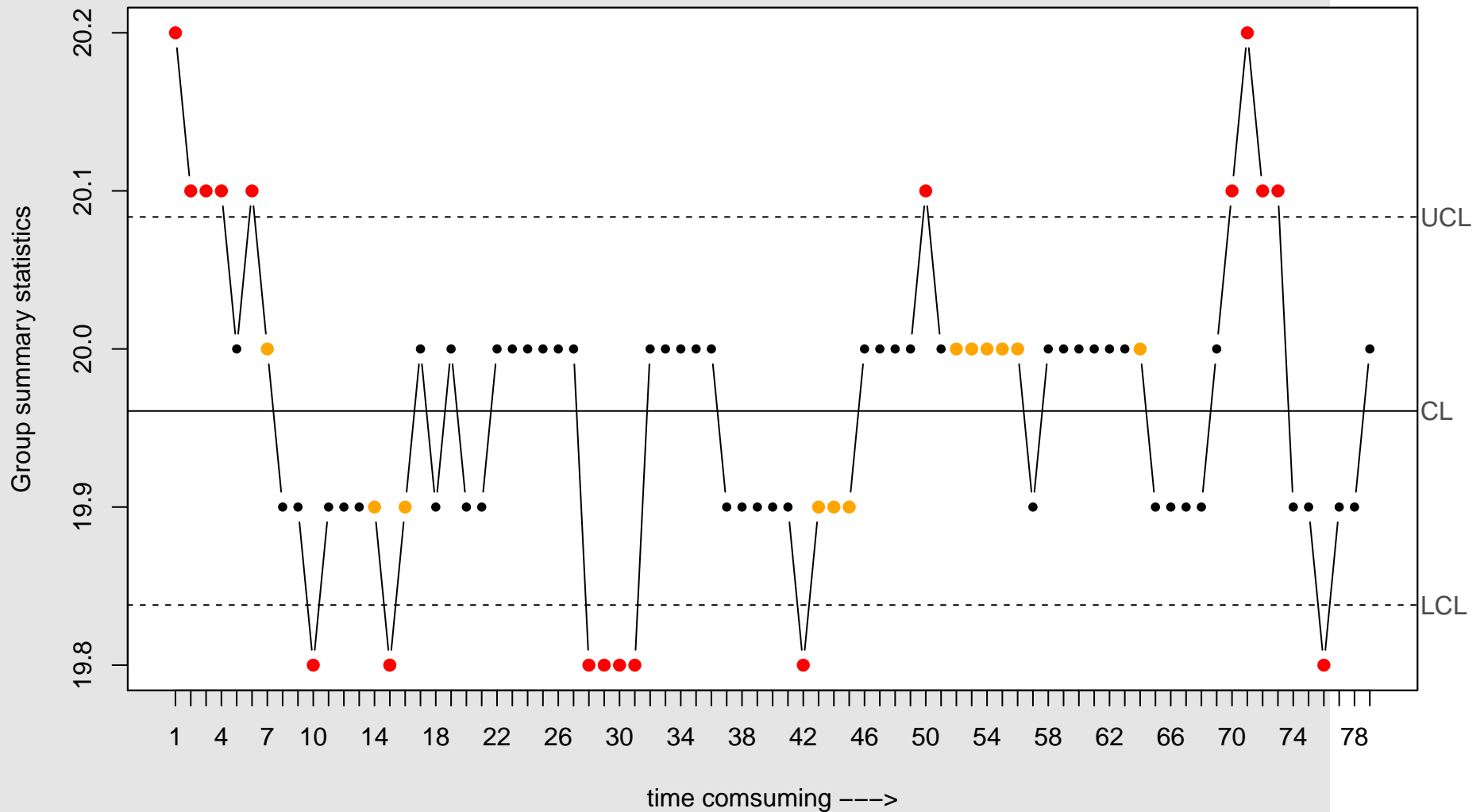


Number of groups = 79
 Center = 19.95823
 StdDev = 0.03977996

LCL = 19.83889
 UCL = 20.07757

Number beyond limits = 21
 Number violating runs = 18

242th column point of this product



Number of groups = 79

Center = 19.96076

StdDev = 0.04091653

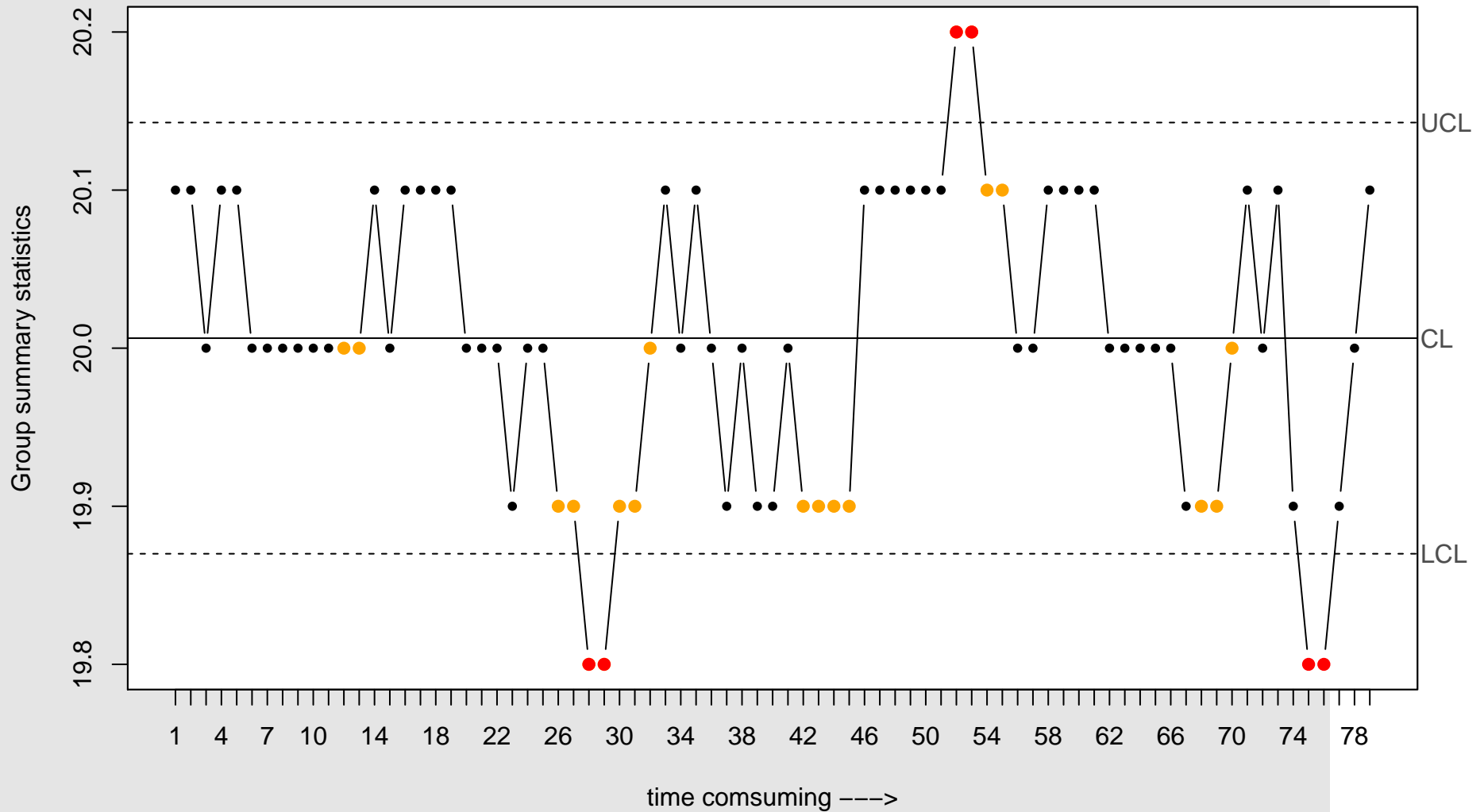
LCL = 19.83801

UCL = 20.08351

Number beyond limits = 18

Number violating runs = 13

243th column point of this product

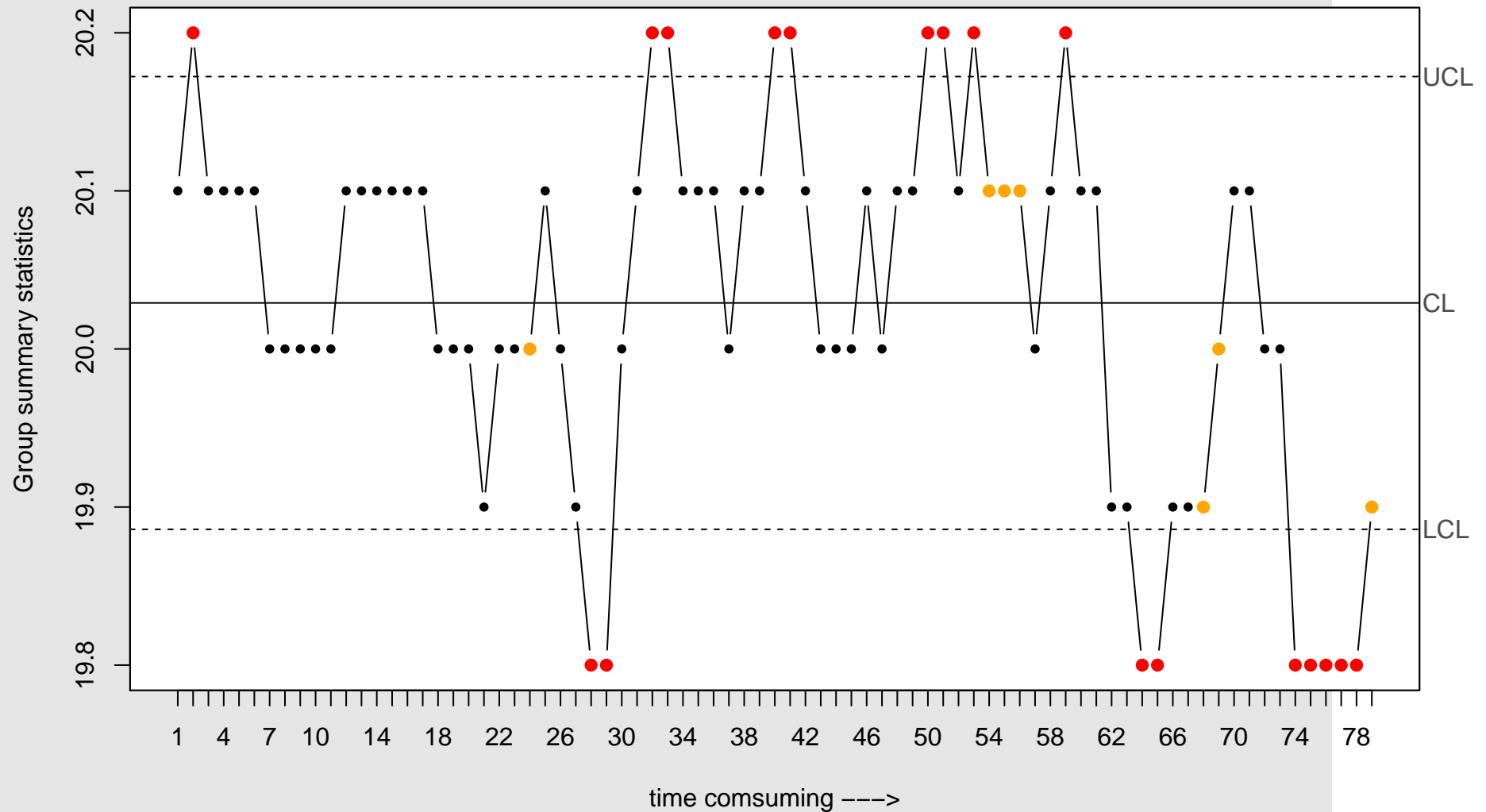


Number of groups = 79
Center = 20.00633
StdDev = 0.04546281

LCL = 19.86994
UCL = 20.14272

Number beyond limits = 6
Number violating runs = 20

244th column point of this product

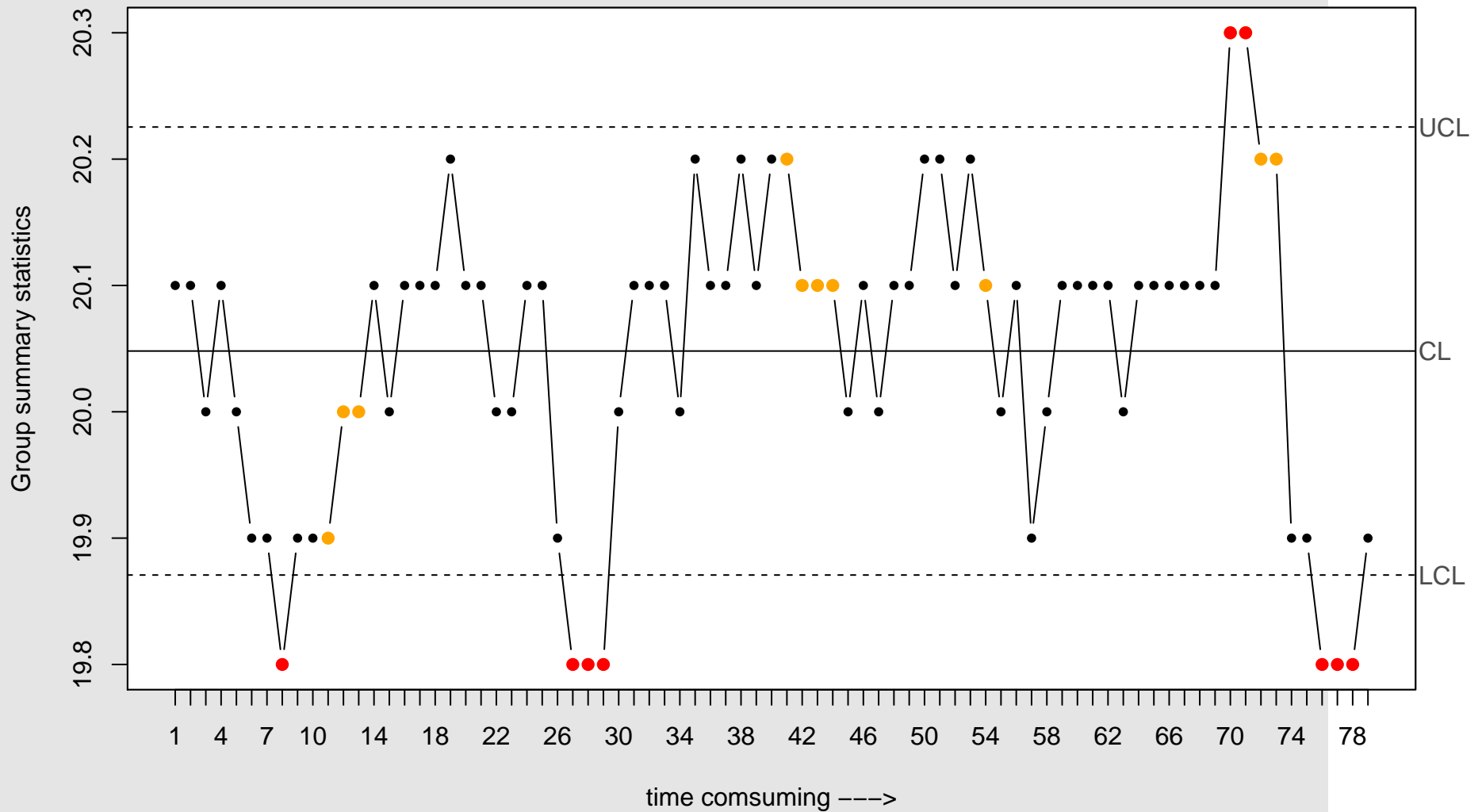


Number of groups = 79
 Center = 20.02911
 StdDev = 0.04773595

LCL = 19.88591
 UCL = 20.17232

Number beyond limits = 18
 Number violating runs = 8

245th column point of this product



Number of groups = 79

Center = 20.0481

StdDev = 0.05910165

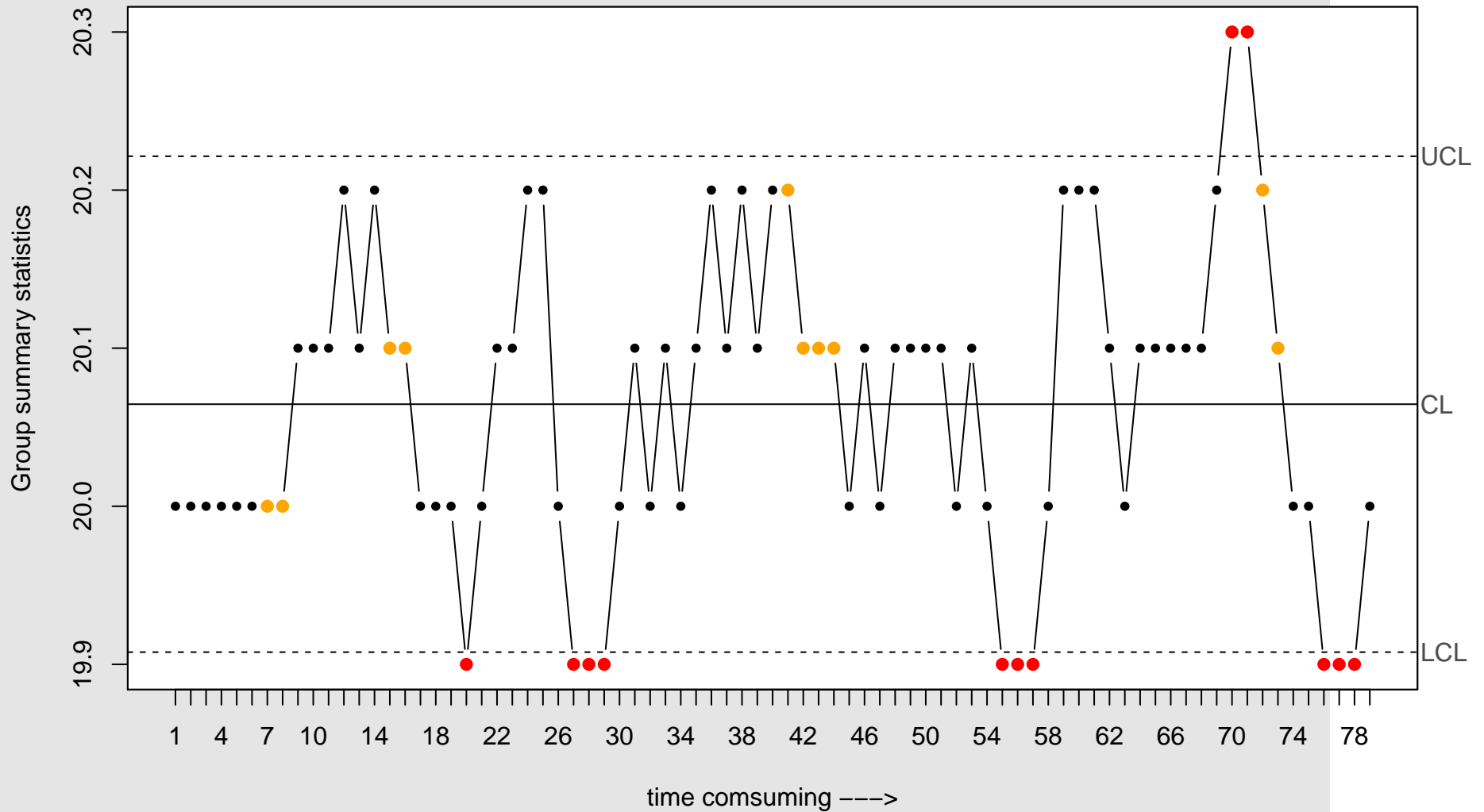
LCL = 19.8708

UCL = 20.22541

Number beyond limits = 9

Number violating runs = 12

246th column point of this product



Number of groups = 79

Center = 20.06456

StdDev = 0.05228223

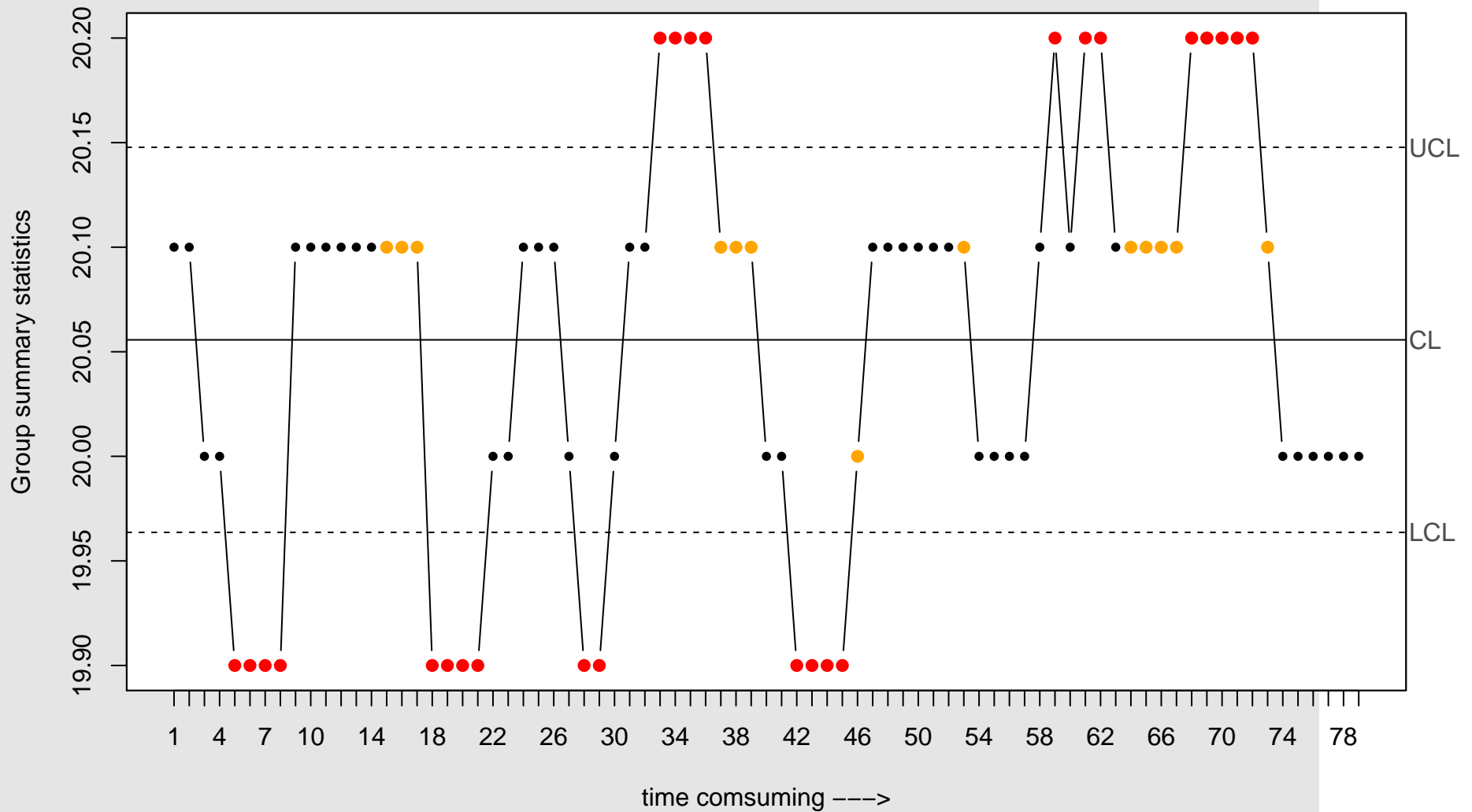
LCL = 19.90771

UCL = 20.2214

Number beyond limits = 12

Number violating runs = 12

247th column point of this product



Number of groups = 79

Center = 20.0557

StdDev = 0.0306874

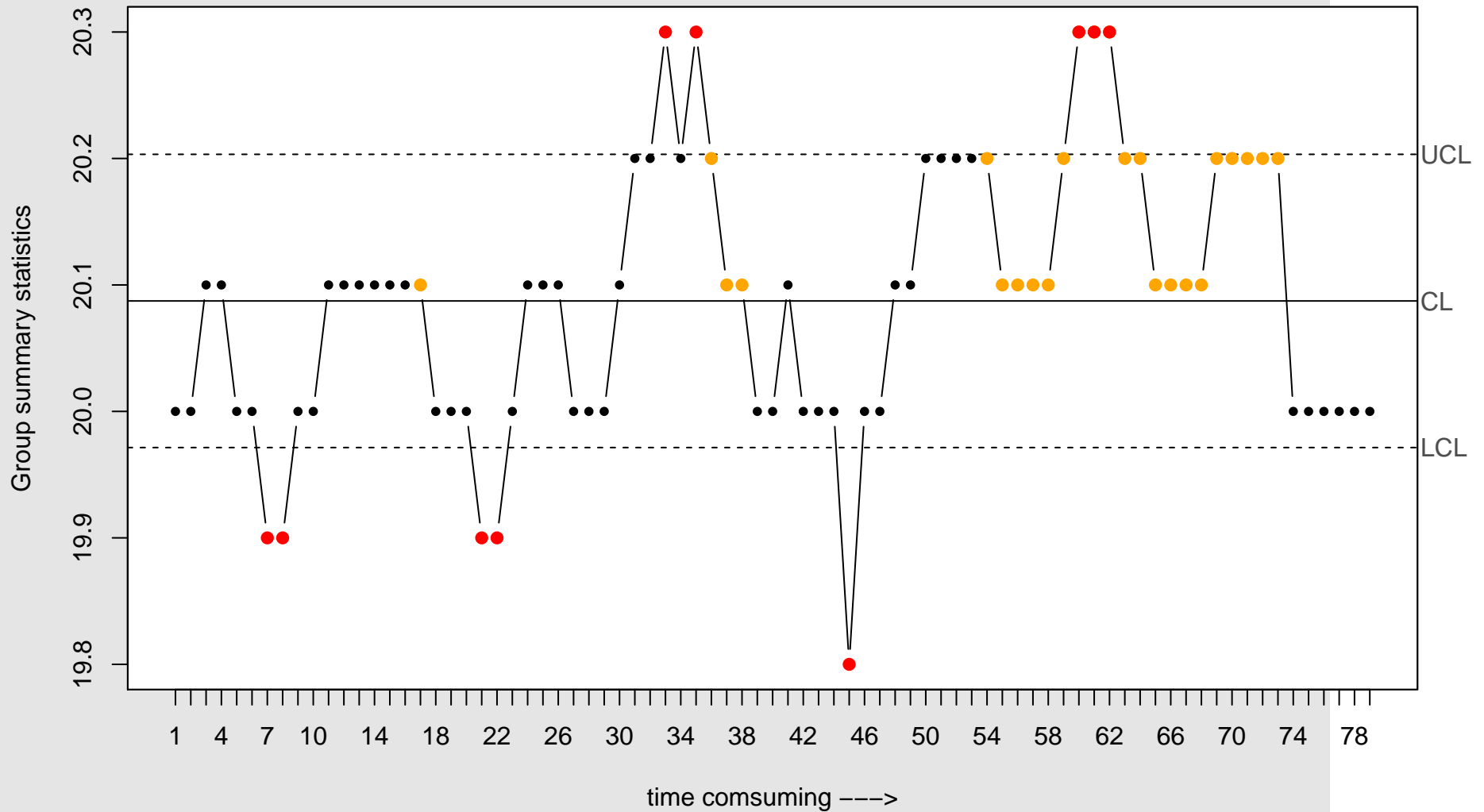
LCL = 19.96363

UCL = 20.14776

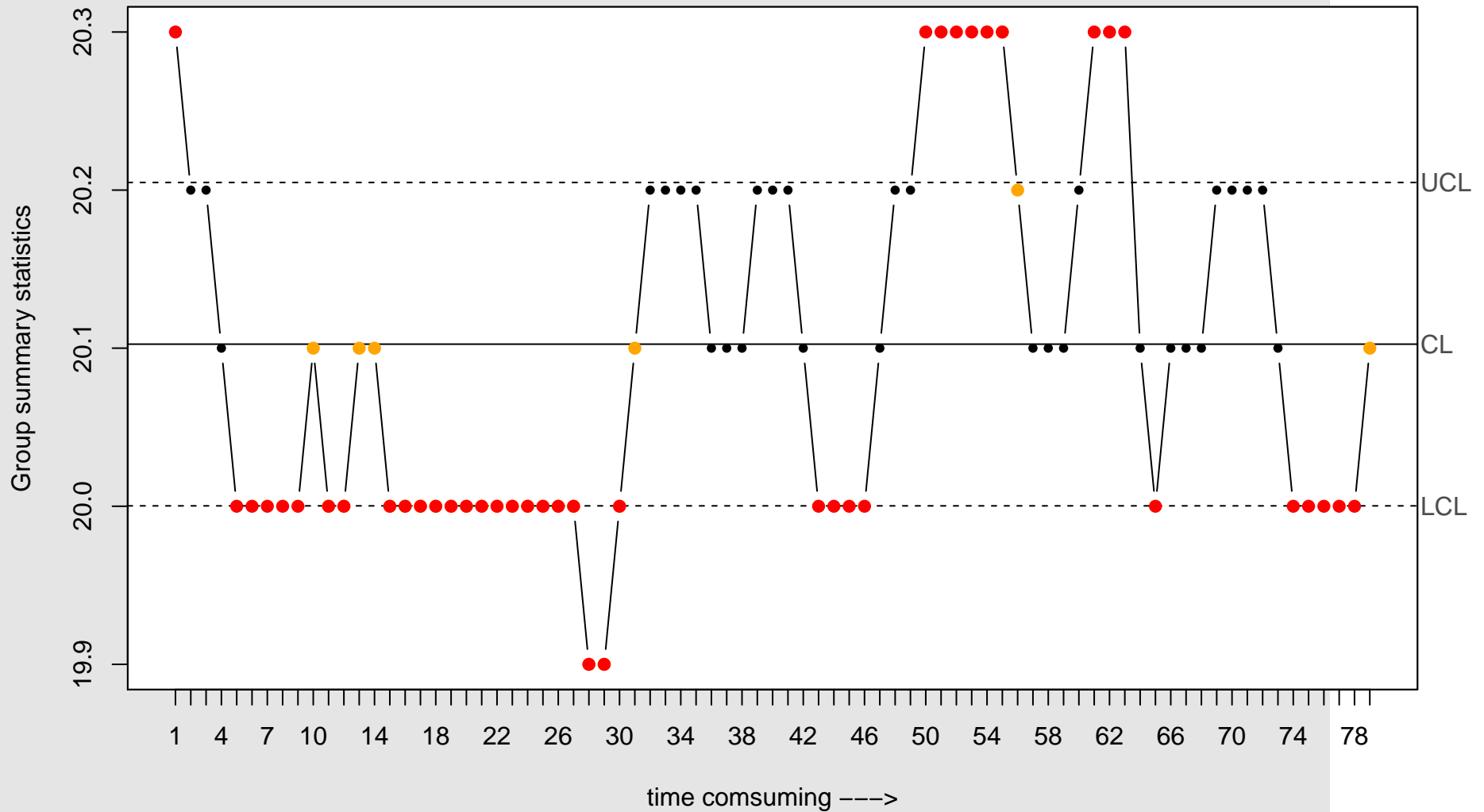
Number beyond limits = 26

Number violating runs = 18

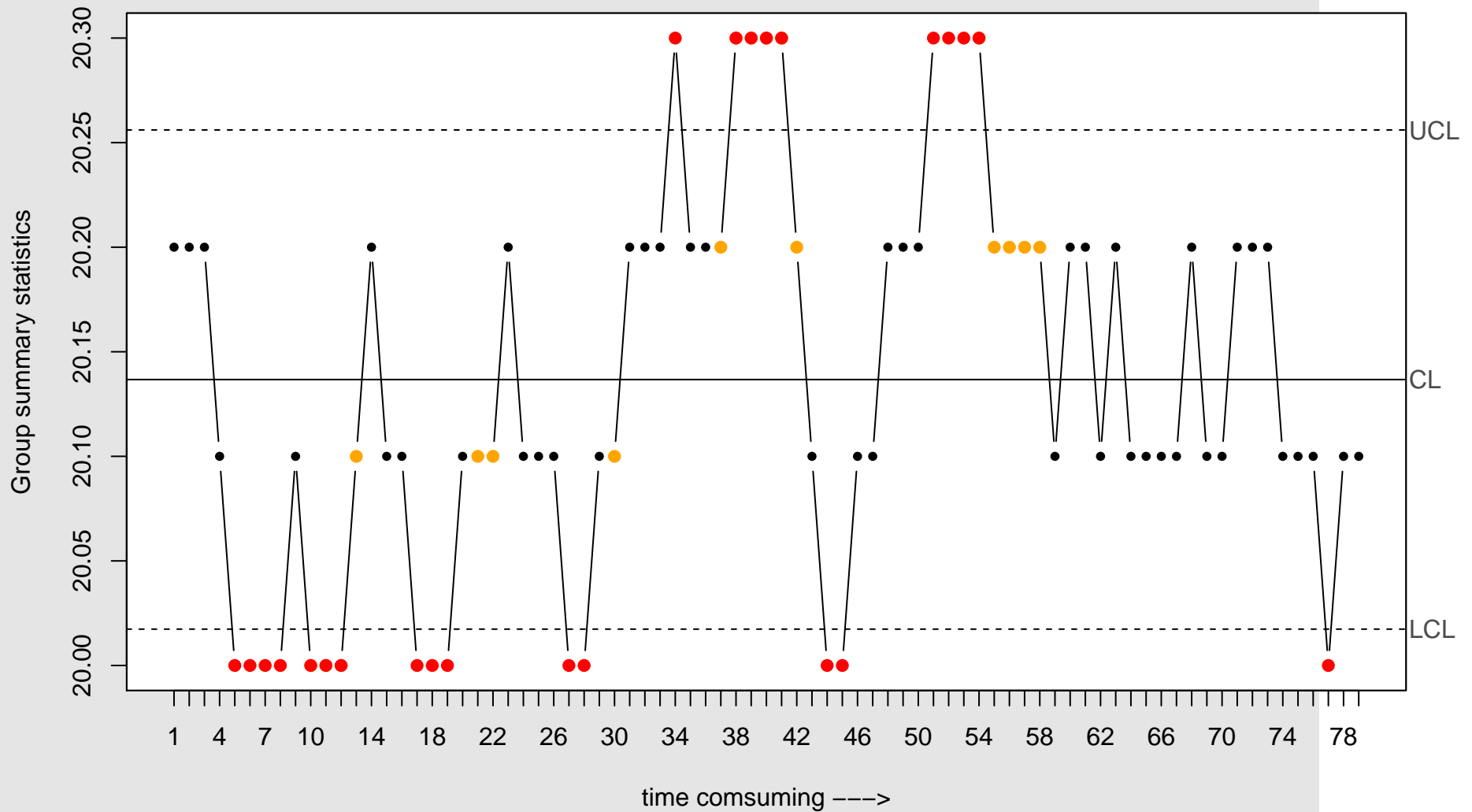
248th column point of this product



249th column point of this product



250th column point of this product



Number of groups = 79

Center = 20.13671

StdDev = 0.03977996

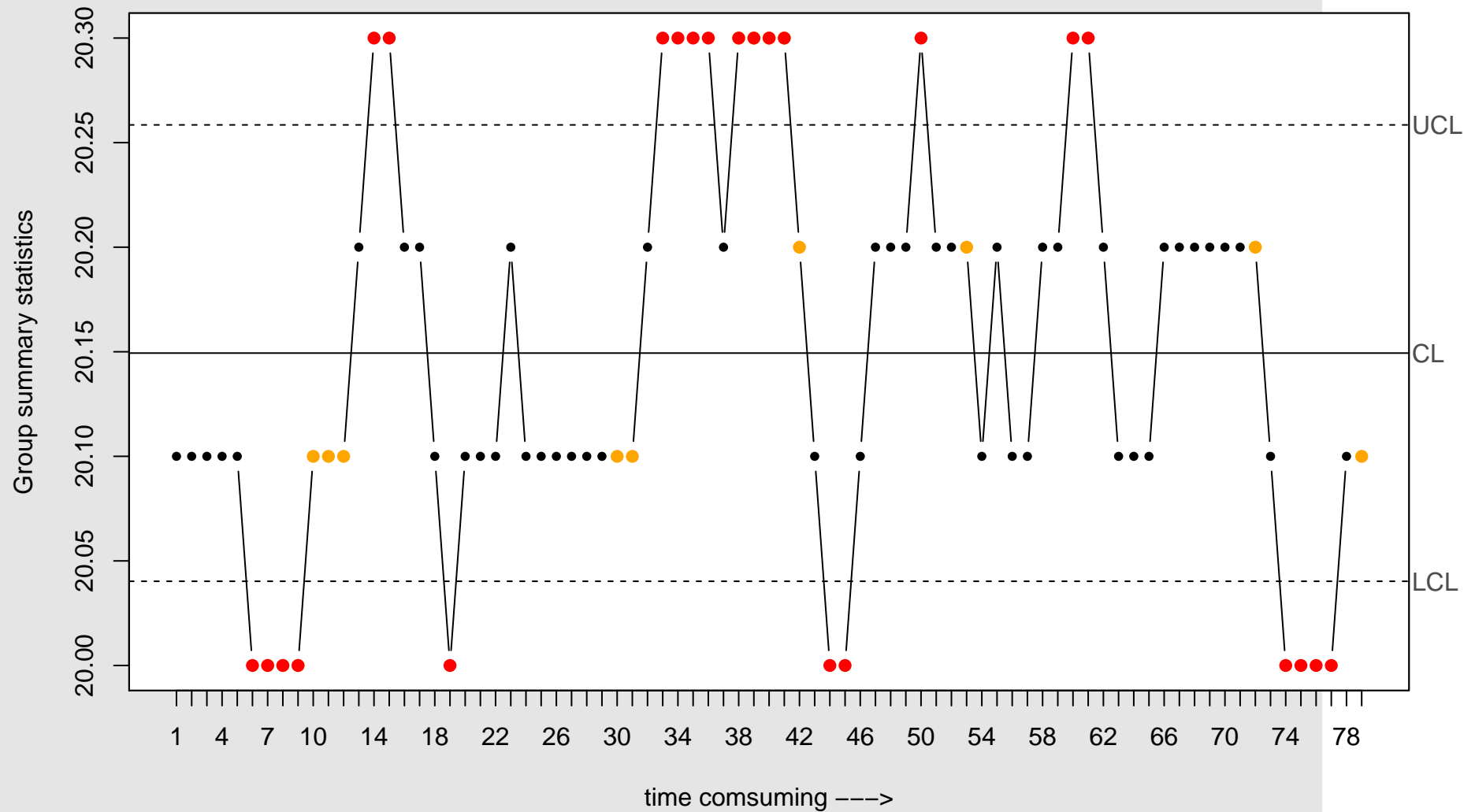
LCL = 20.01737

UCL = 20.25605

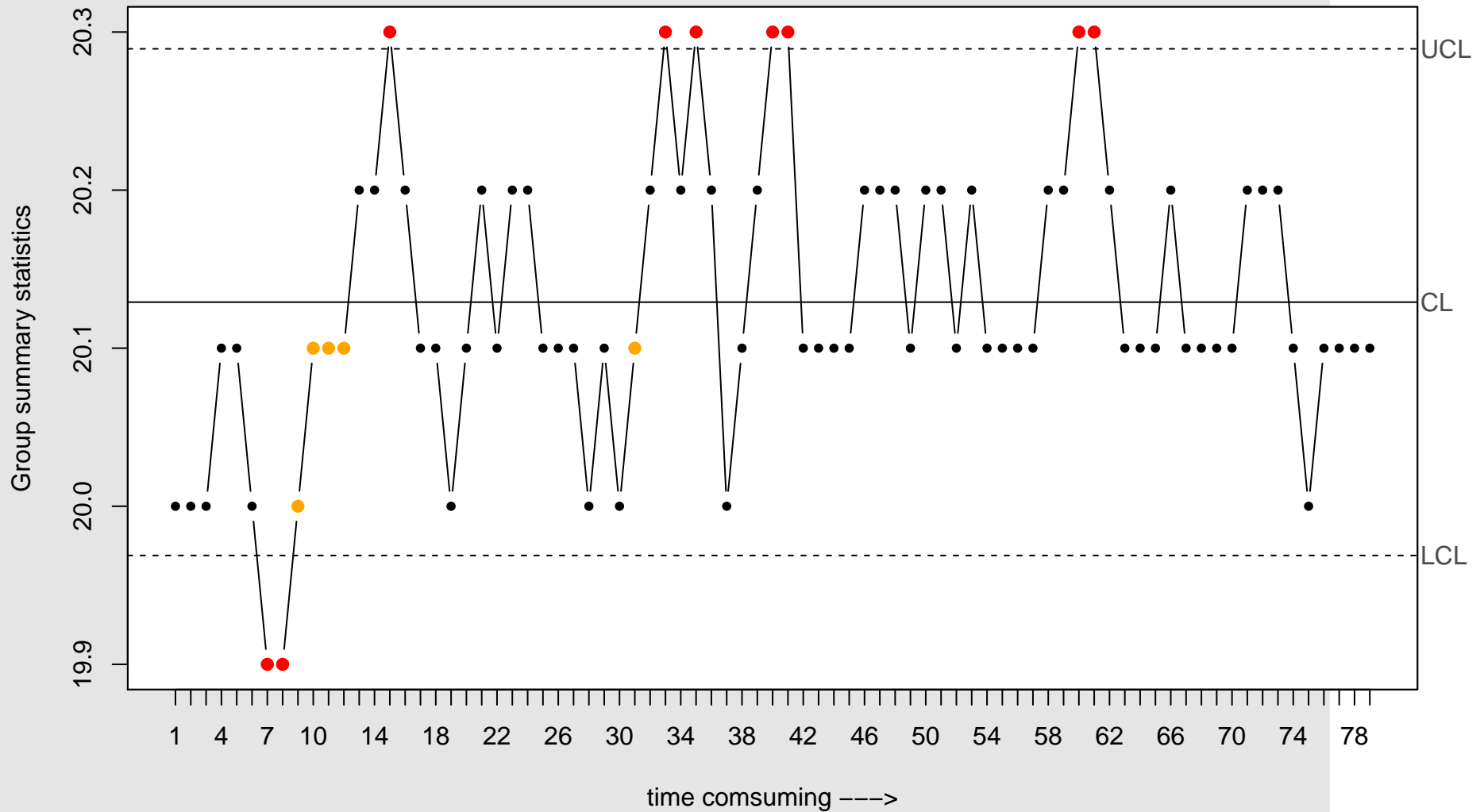
Number beyond limits = 24

Number violating runs = 18

251th column point of this product



252th column point of this product

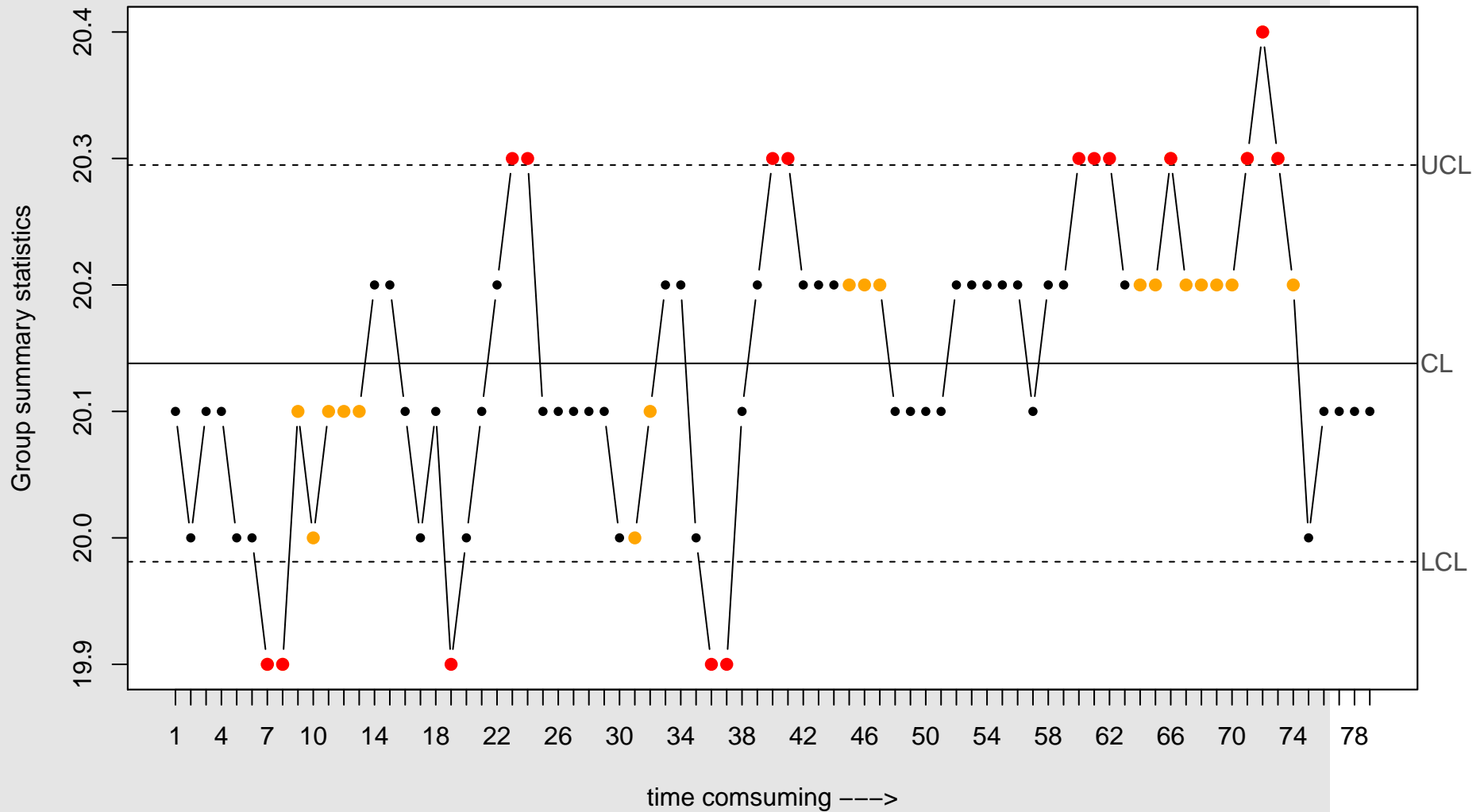


Number of groups = 79
 Center = 20.12911
 StdDev = 0.0534188

LCL = 19.96886
 UCL = 20.28937

Number beyond limits = 9
 Number violating runs = 7

253th column point of this product



Number of groups = 79

Center = 20.13797

StdDev = 0.05228223

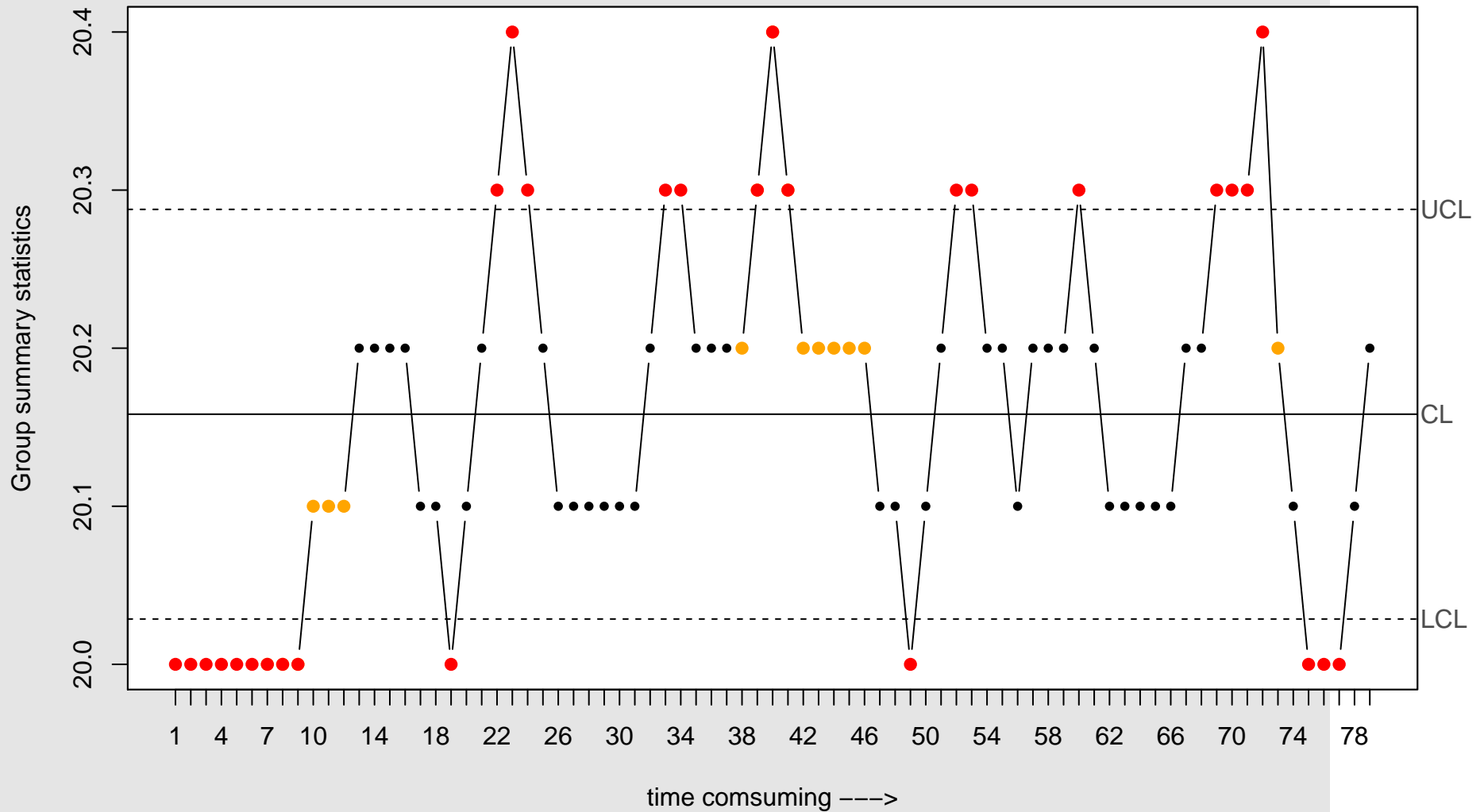
LCL = 19.98113

UCL = 20.29482

Number beyond limits = 16

Number violating runs = 23

254th column point of this product

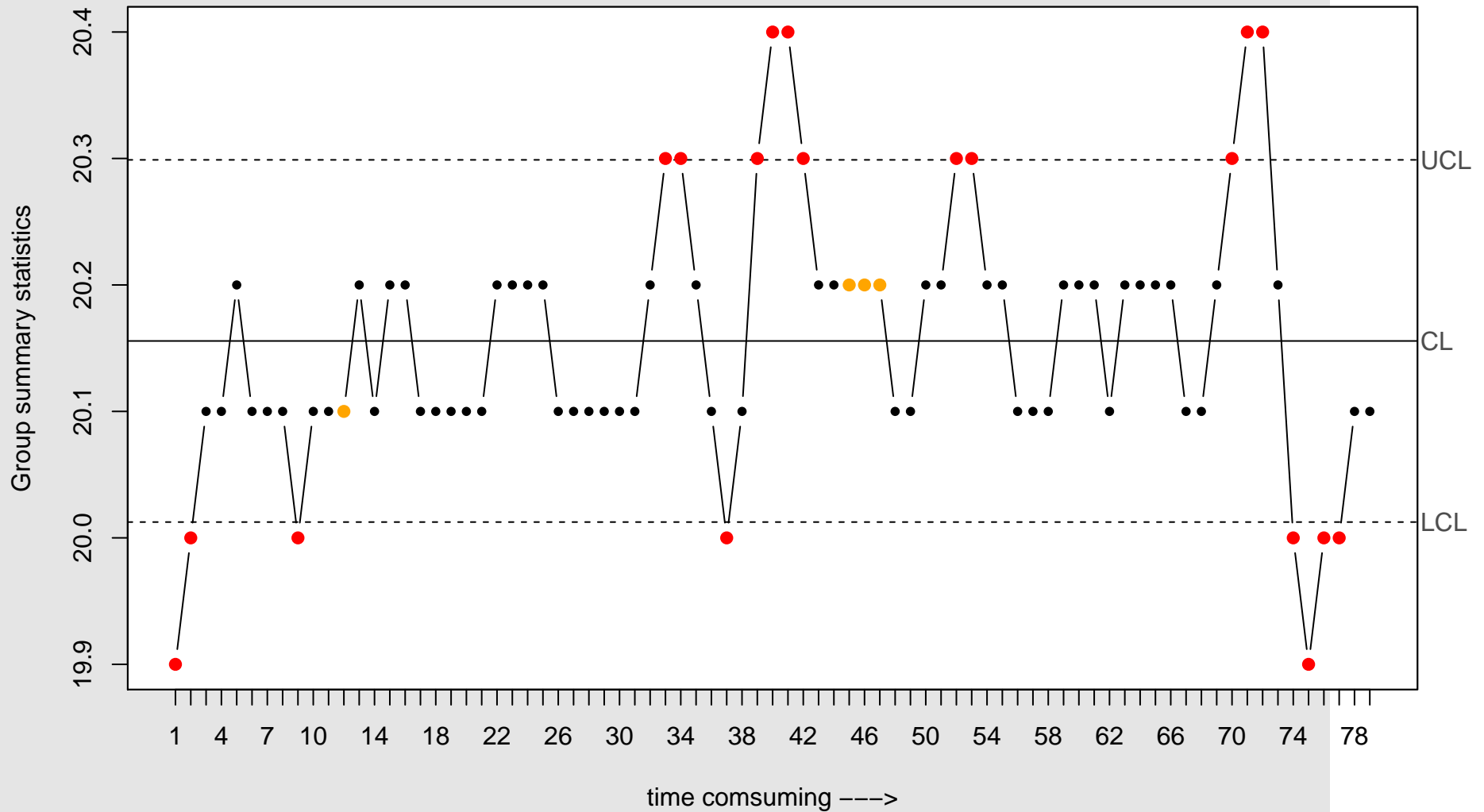


Number of groups = 79
 Center = 20.15823
 StdDev = 0.04318967

LCL = 20.02866
 UCL = 20.2878

Number beyond limits = 29
 Number violating runs = 16

255th column point of this product

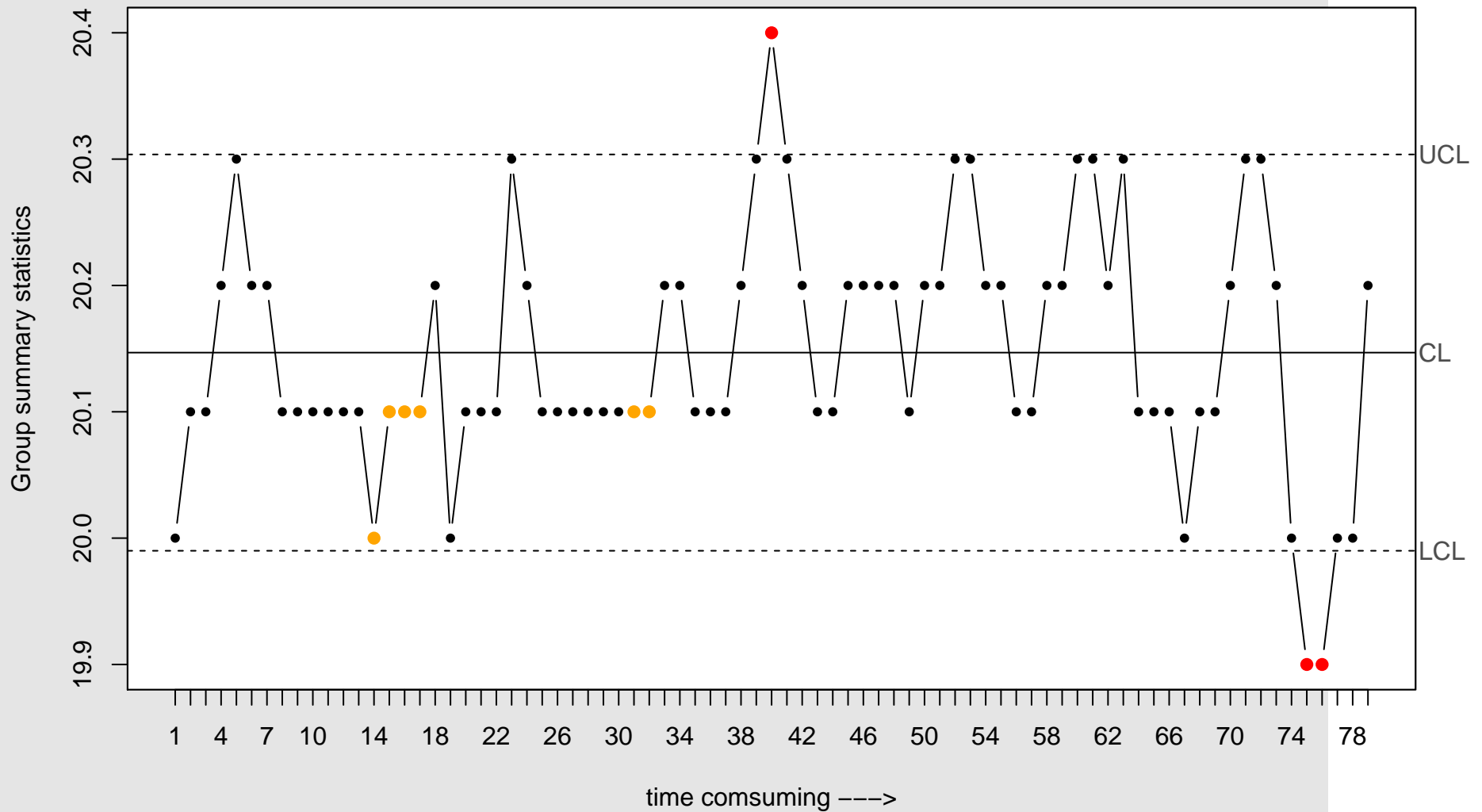


Number of groups = 79
 Center = 20.1557
 StdDev = 0.04773595

LCL = 20.01249
 UCL = 20.2989

Number beyond limits = 19
 Number violating runs = 4

256th column point of this product



Number of groups = 79

Center = 20.14684

StdDev = 0.05228223

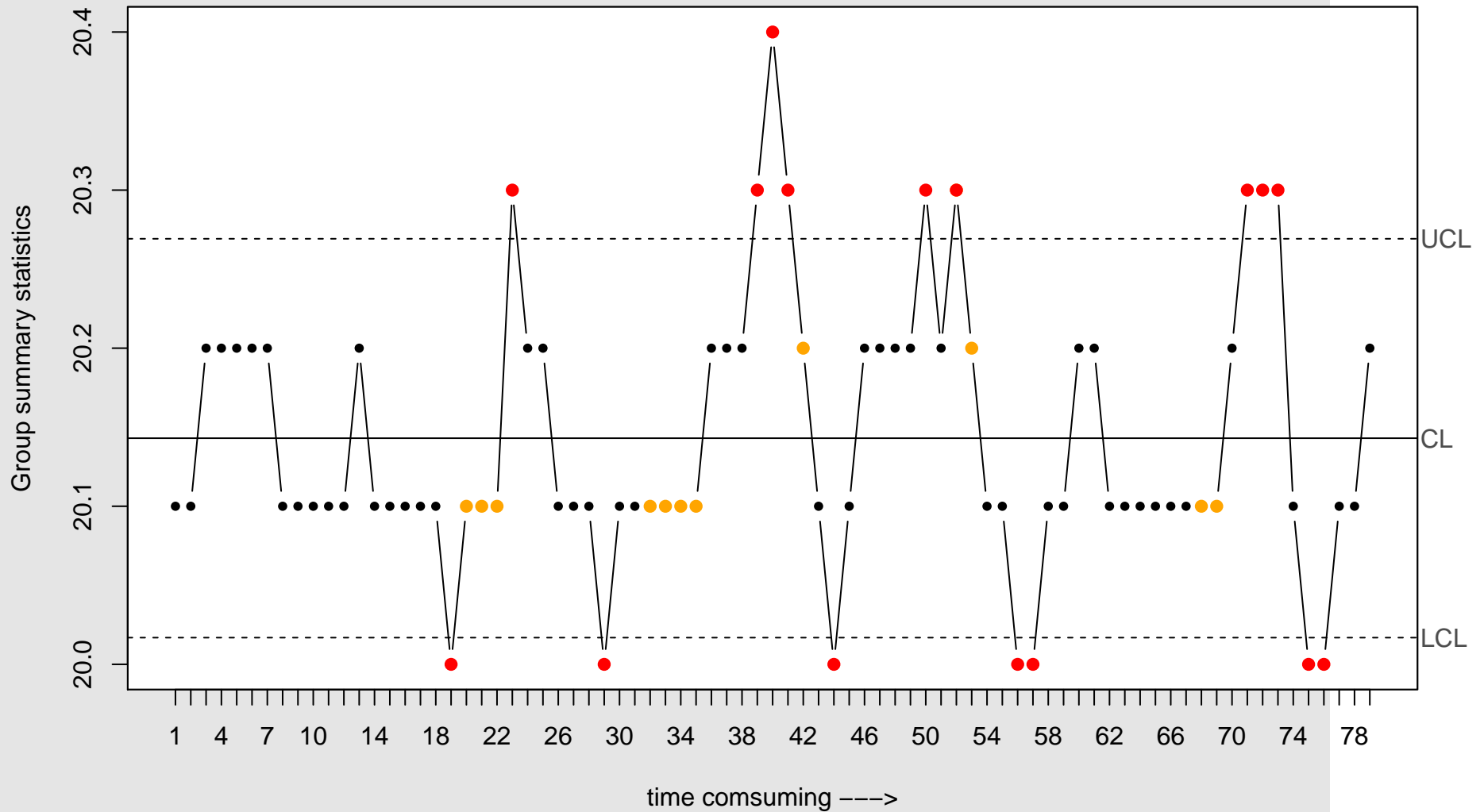
LCL = 19.98999

UCL = 20.30368

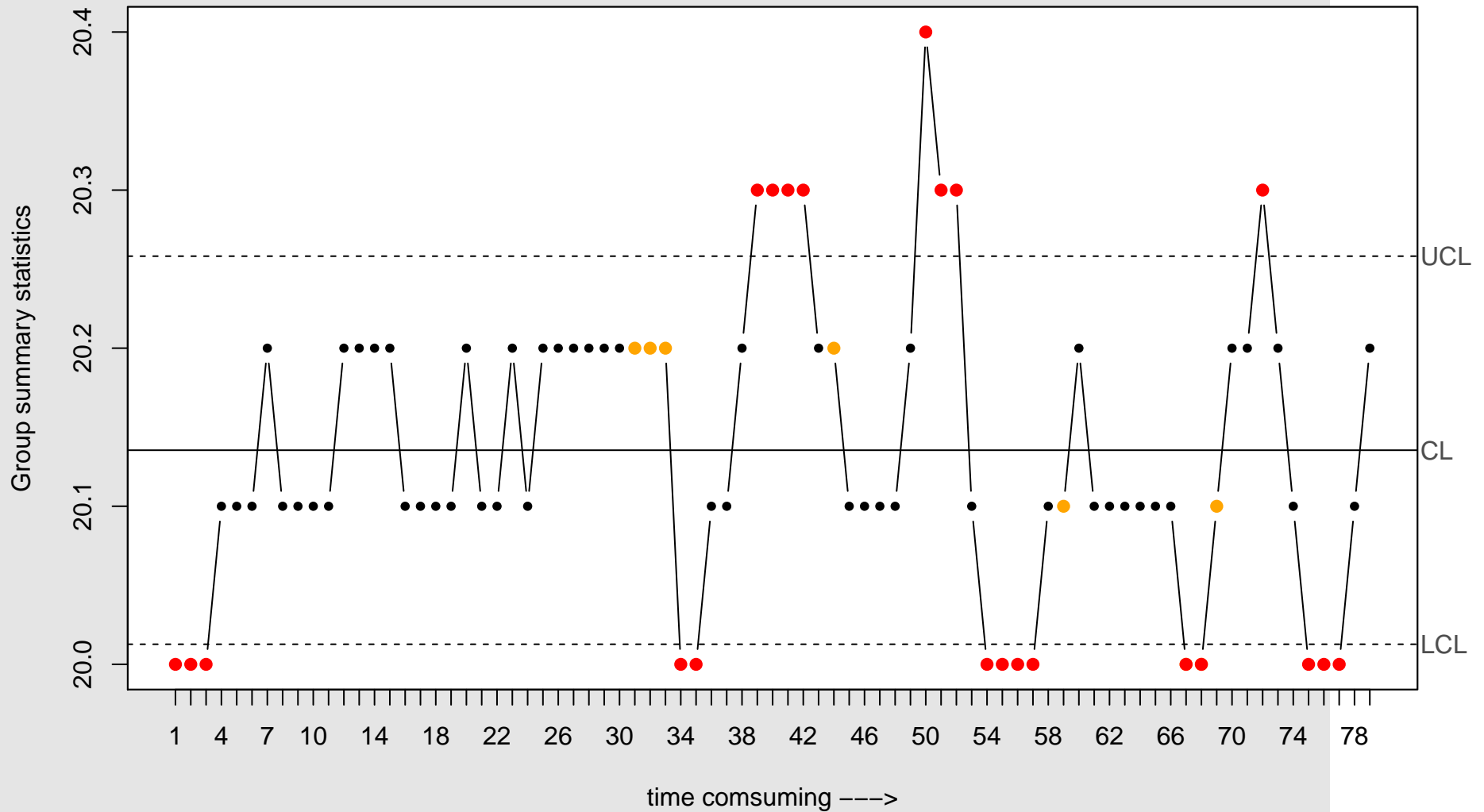
Number beyond limits = 3

Number violating runs = 6

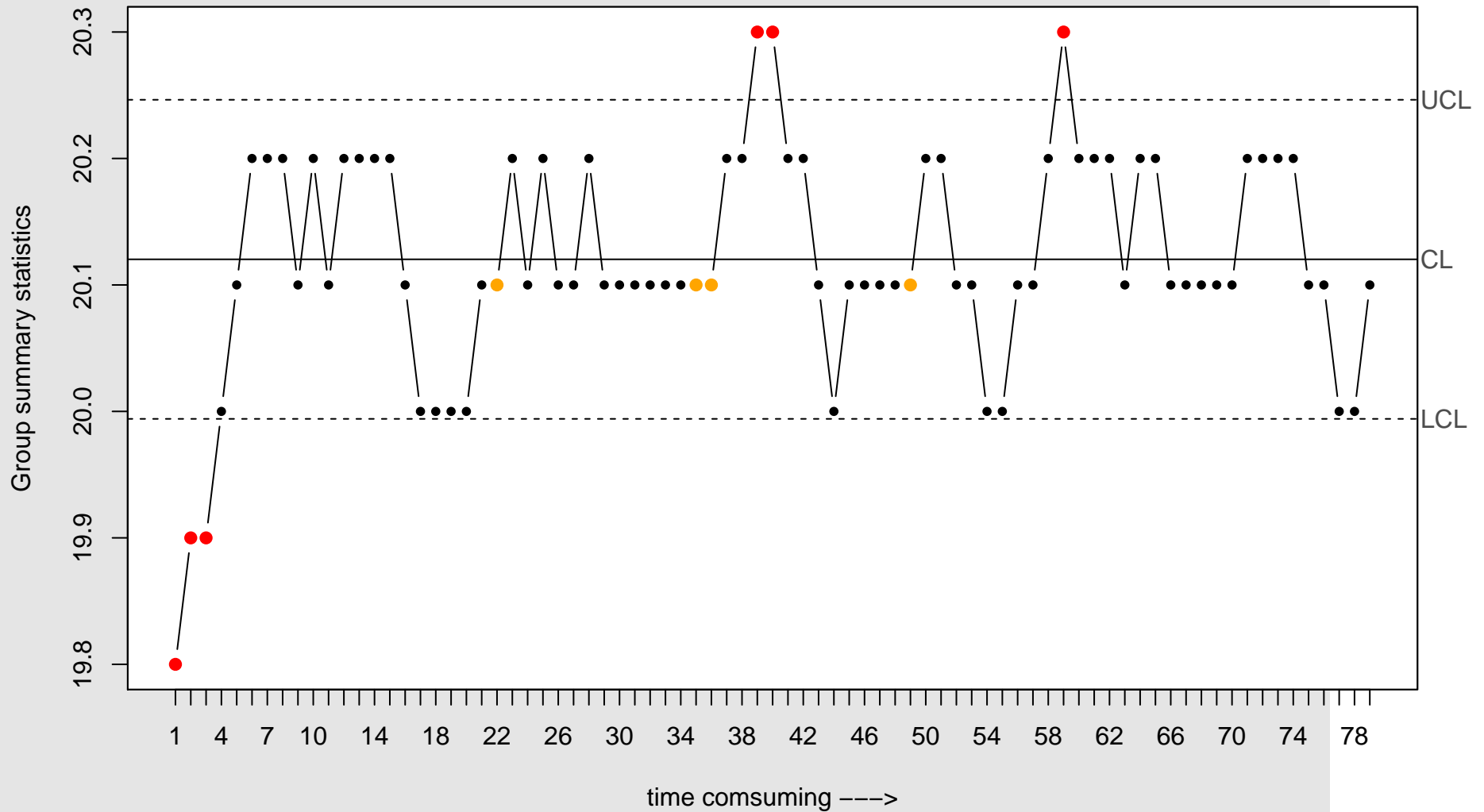
257th column point of this product



258th column point of this product



259th column point of this product



Number of groups = 79

Center = 20.12025

StdDev = 0.0420531

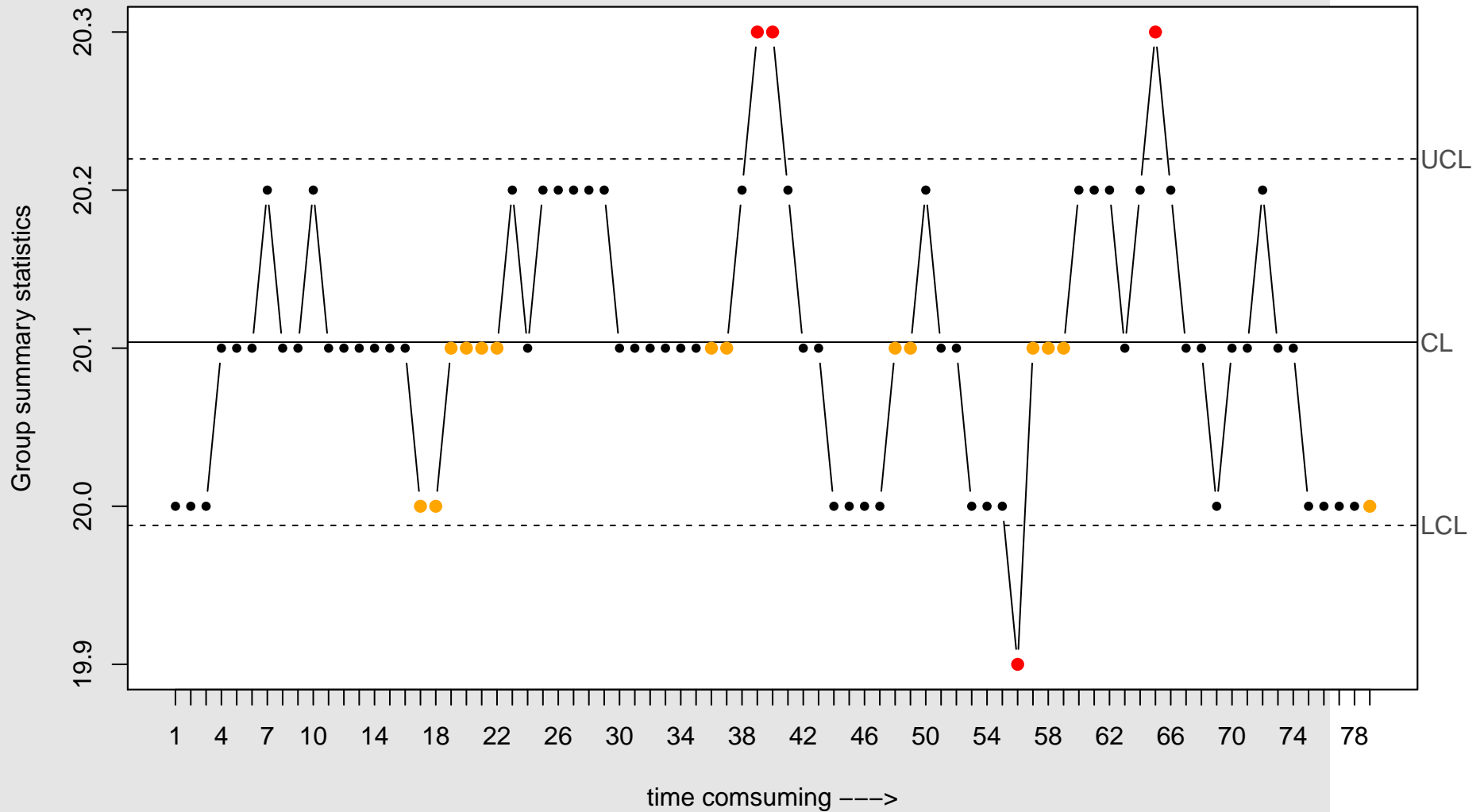
LCL = 19.99409

UCL = 20.24641

Number beyond limits = 6

Number violating runs = 4

260th column point of this product

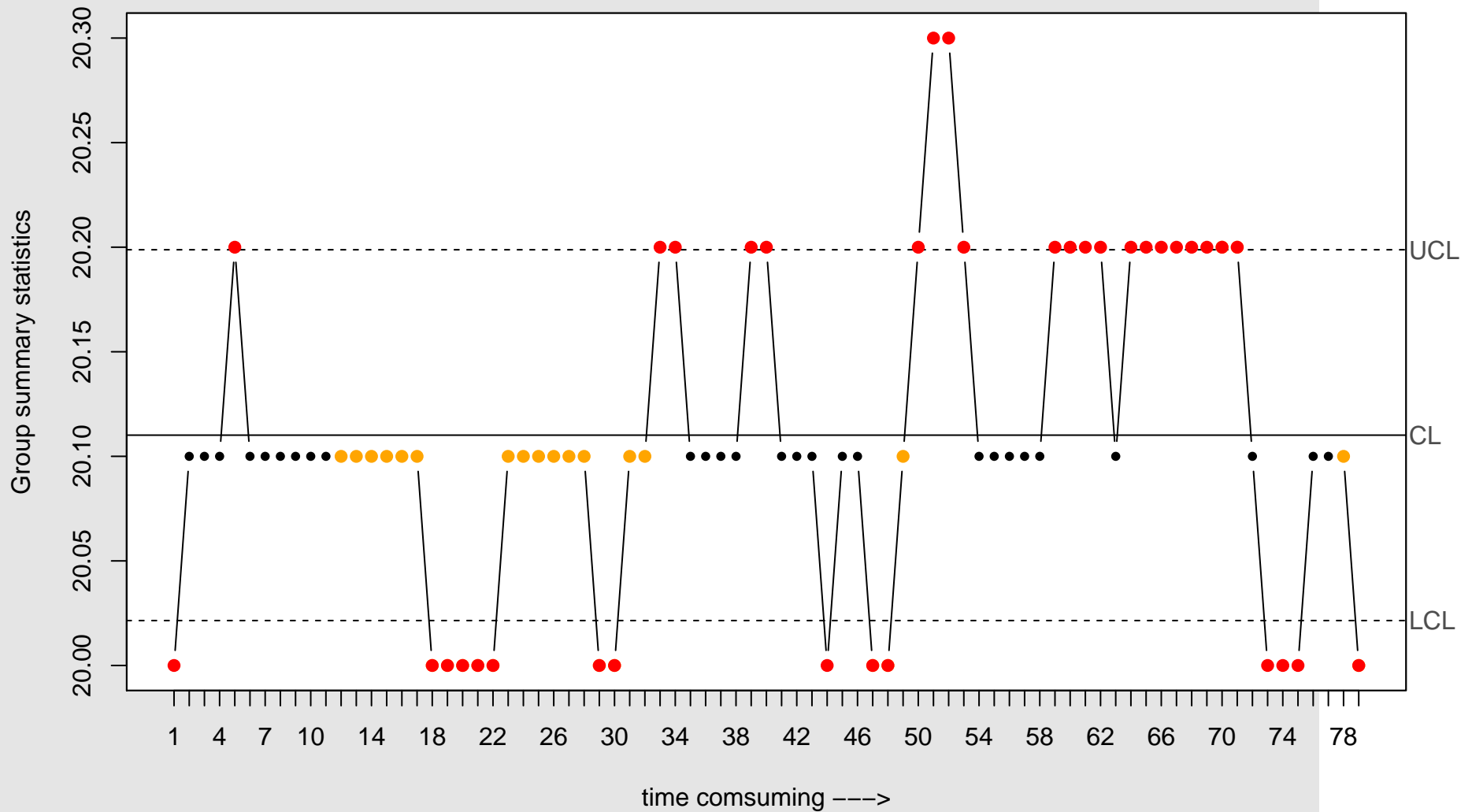


Number of groups = 79
 Center = 20.1038
 StdDev = 0.03864339

LCL = 19.98787
 UCL = 20.21973

Number beyond limits = 4
 Number violating runs = 14

261th column point of this product

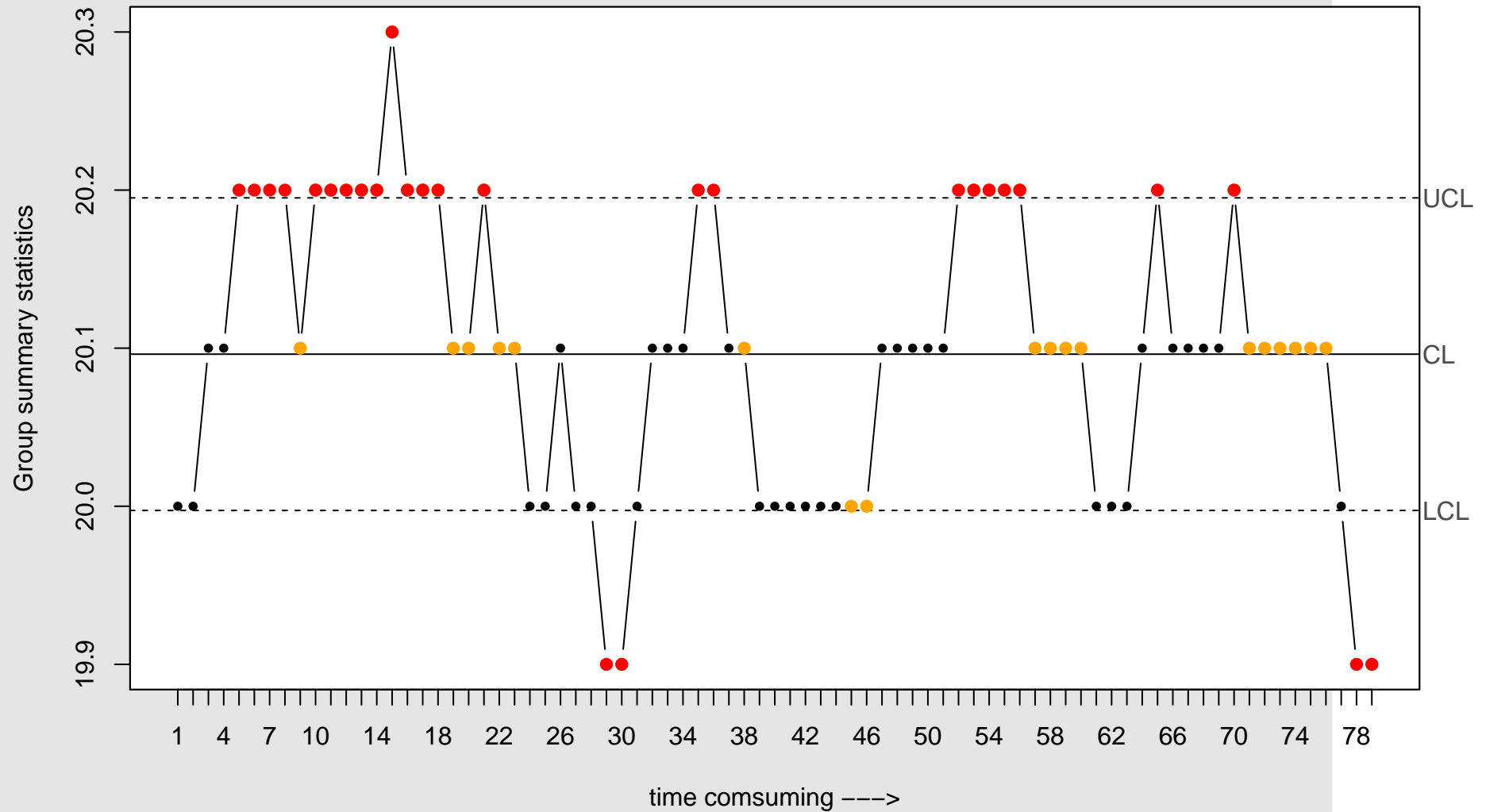


Number of groups = 79
 Center = 20.11013
 StdDev = 0.02955083

LCL = 20.02147
 UCL = 20.19878

Number beyond limits = 36
 Number violating runs = 28

262th column point of this product

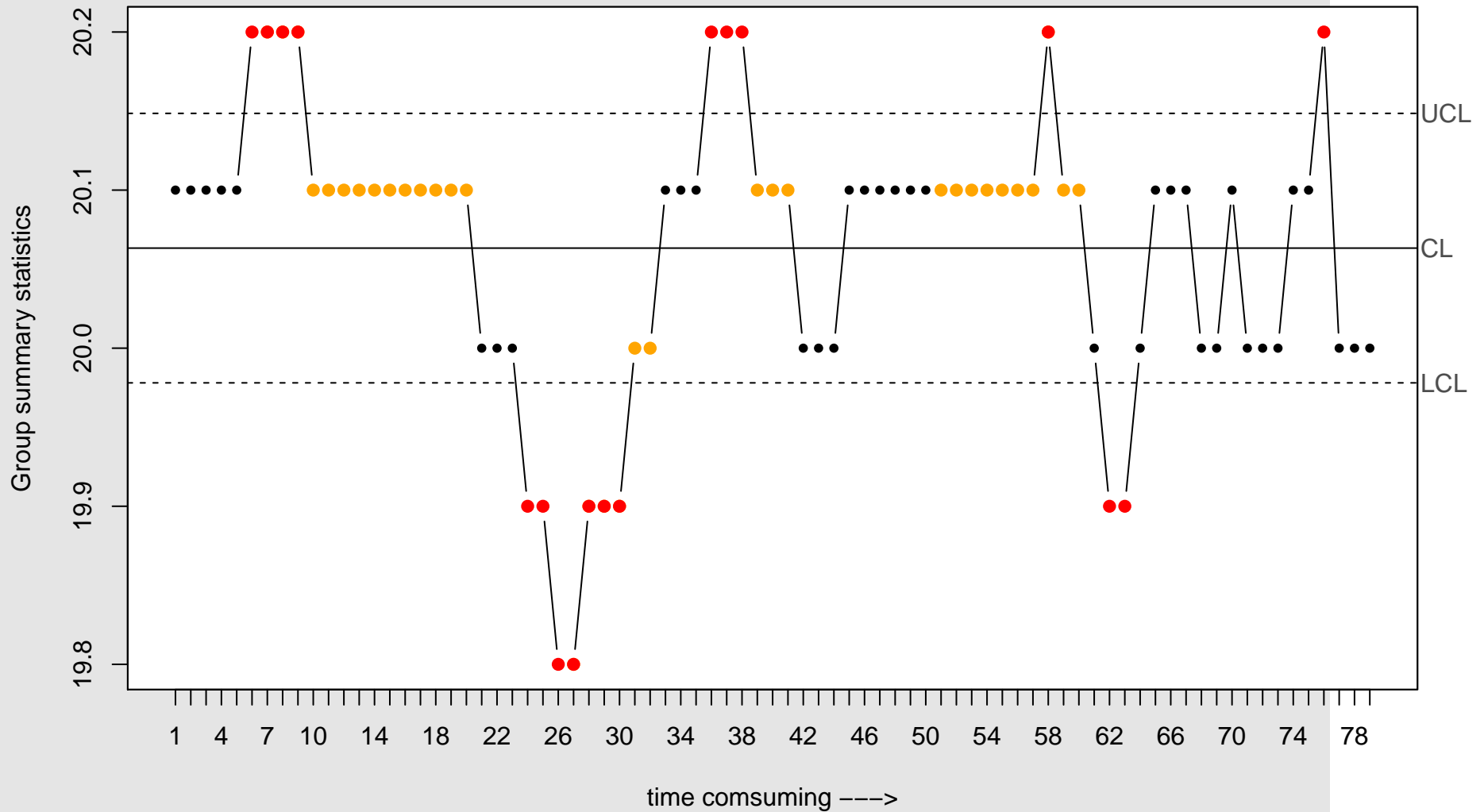


Number of groups = 79
 Center = 20.0962
 StdDev = 0.03296054

LCL = 19.99732
 UCL = 20.19508

Number beyond limits = 27
 Number violating runs = 33

263th column point of this product

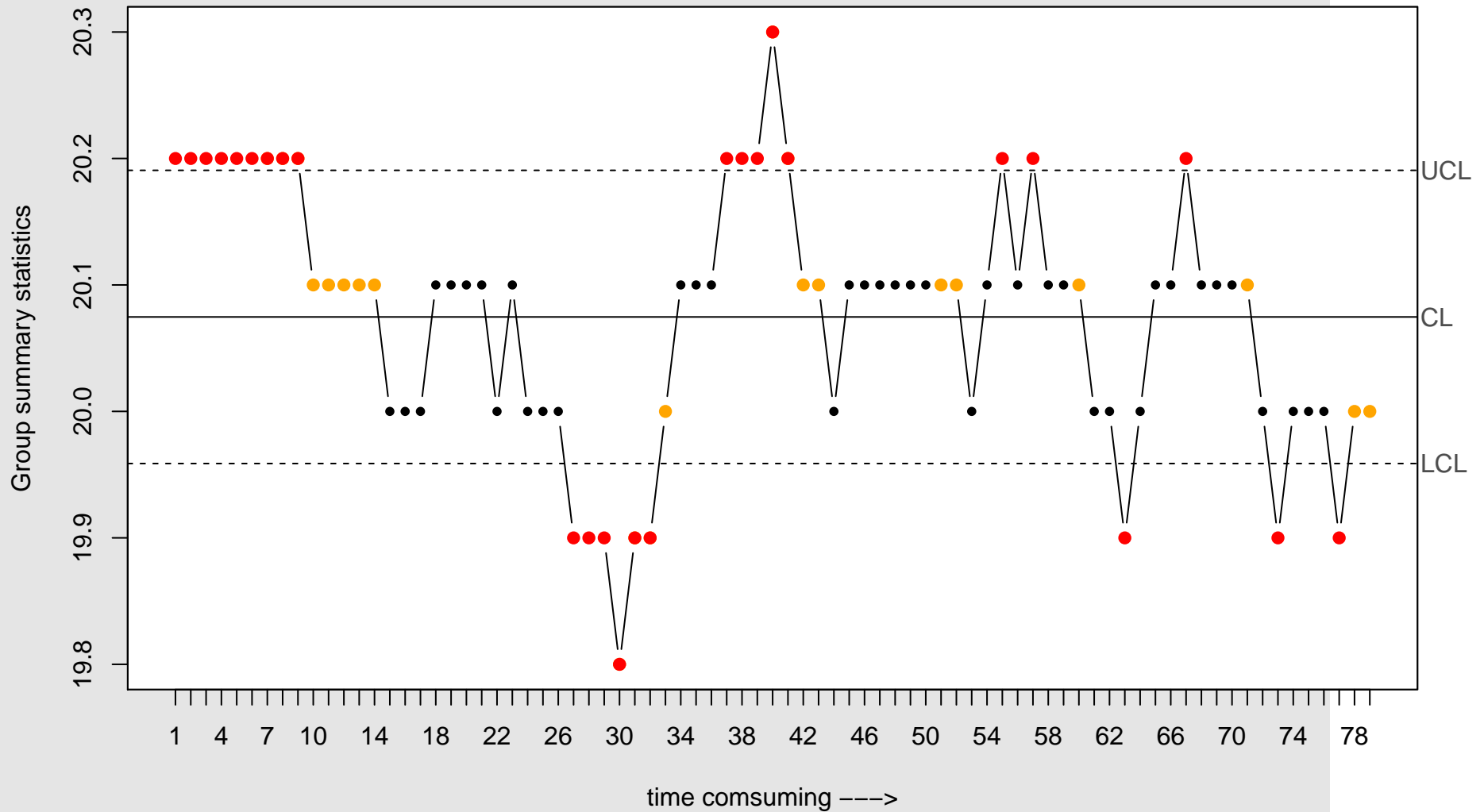


Number of groups = 79
 Center = 20.06329
 StdDev = 0.02841426

LCL = 19.97805
 UCL = 20.14853

Number beyond limits = 18
 Number violating runs = 33

264th column point of this product

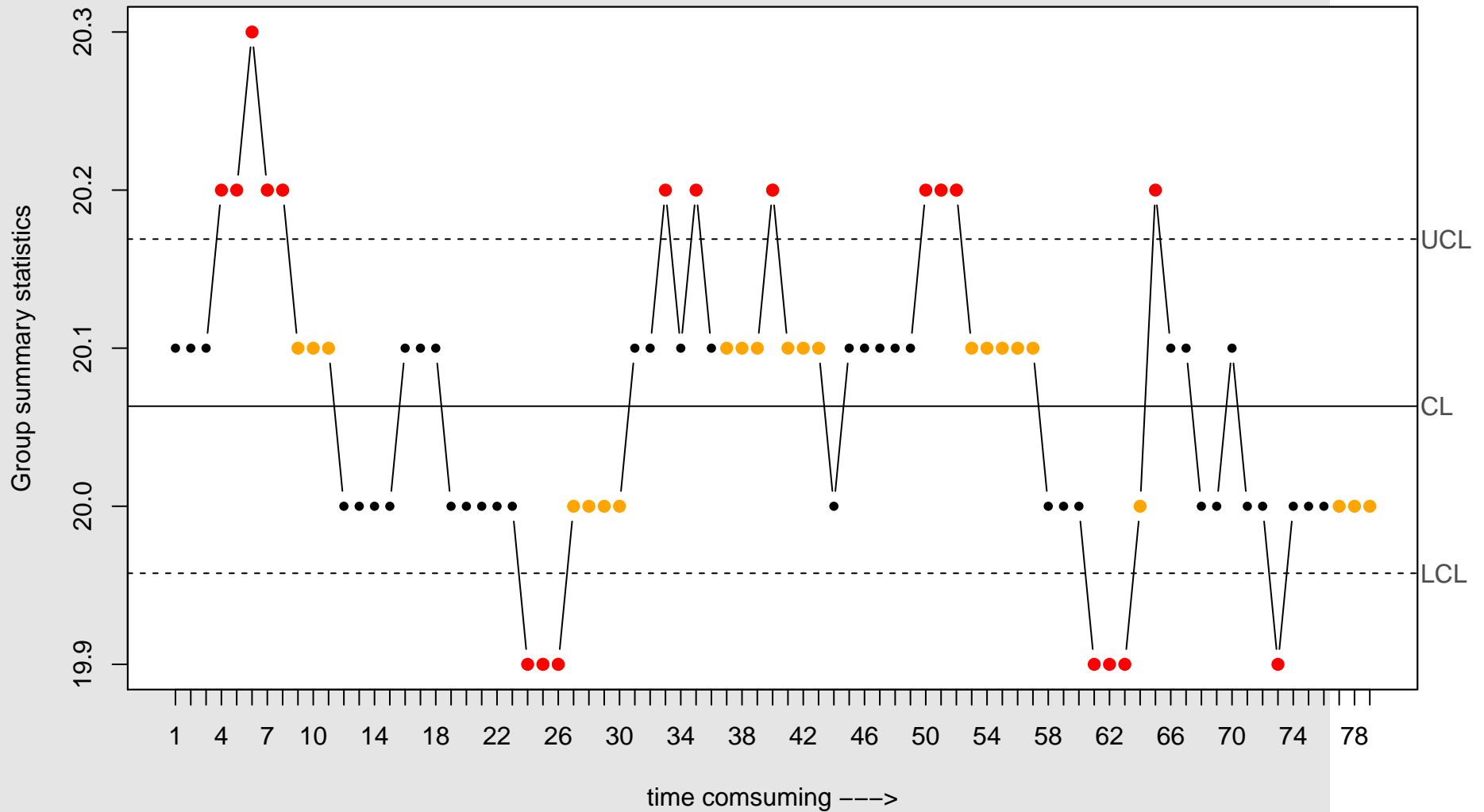


Number of groups = 79
 Center = 20.07468
 StdDev = 0.03864339

LCL = 19.95875
 UCL = 20.19061

Number beyond limits = 26
 Number violating runs = 22

265th column point of this product

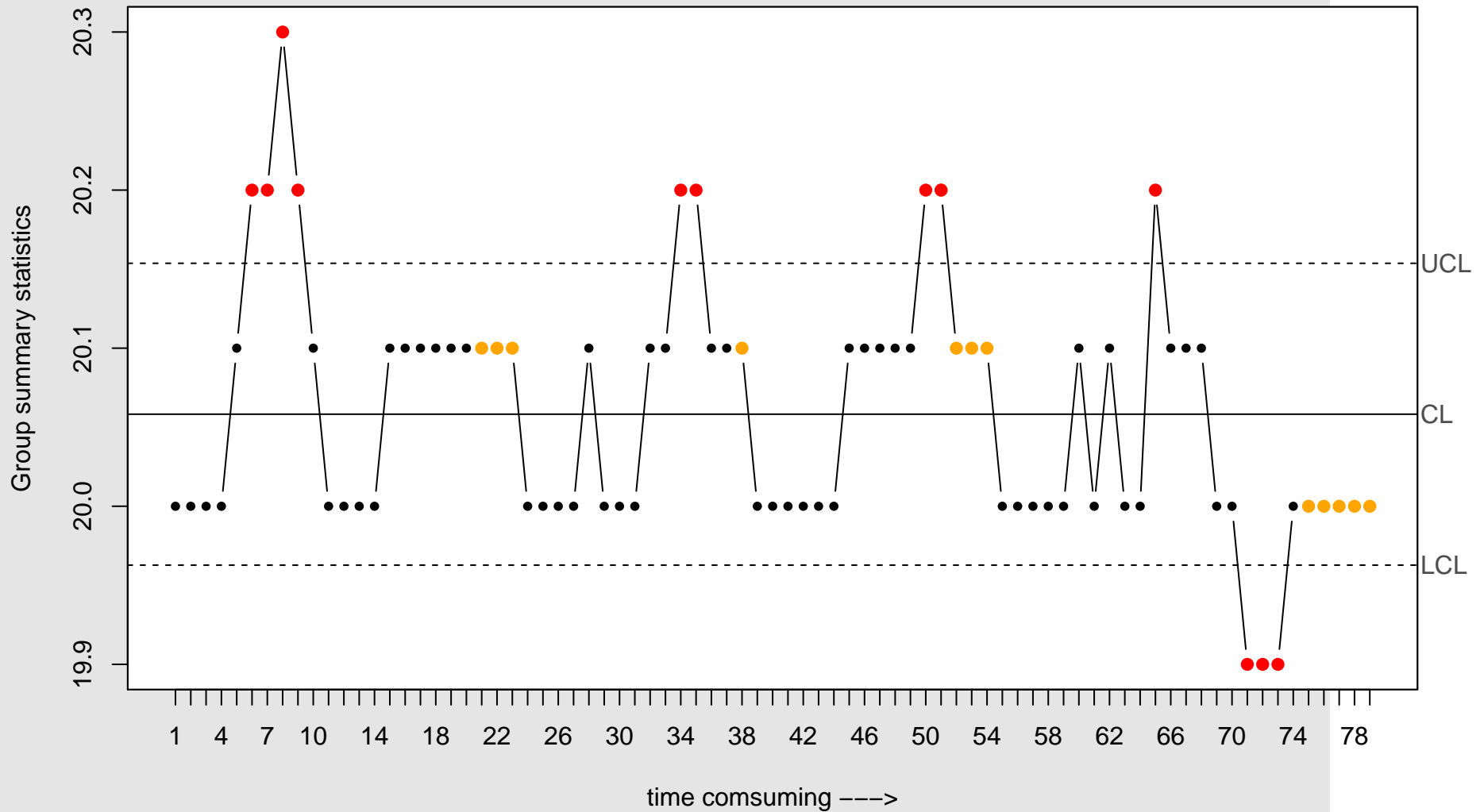


Number of groups = 79
 Center = 20.06329
 StdDev = 0.03523368

LCL = 19.95759
 UCL = 20.16899

Number beyond limits = 19
 Number violating runs = 29

266th column point of this product



Number of groups = 79

Center = 20.05823

StdDev = 0.03182397

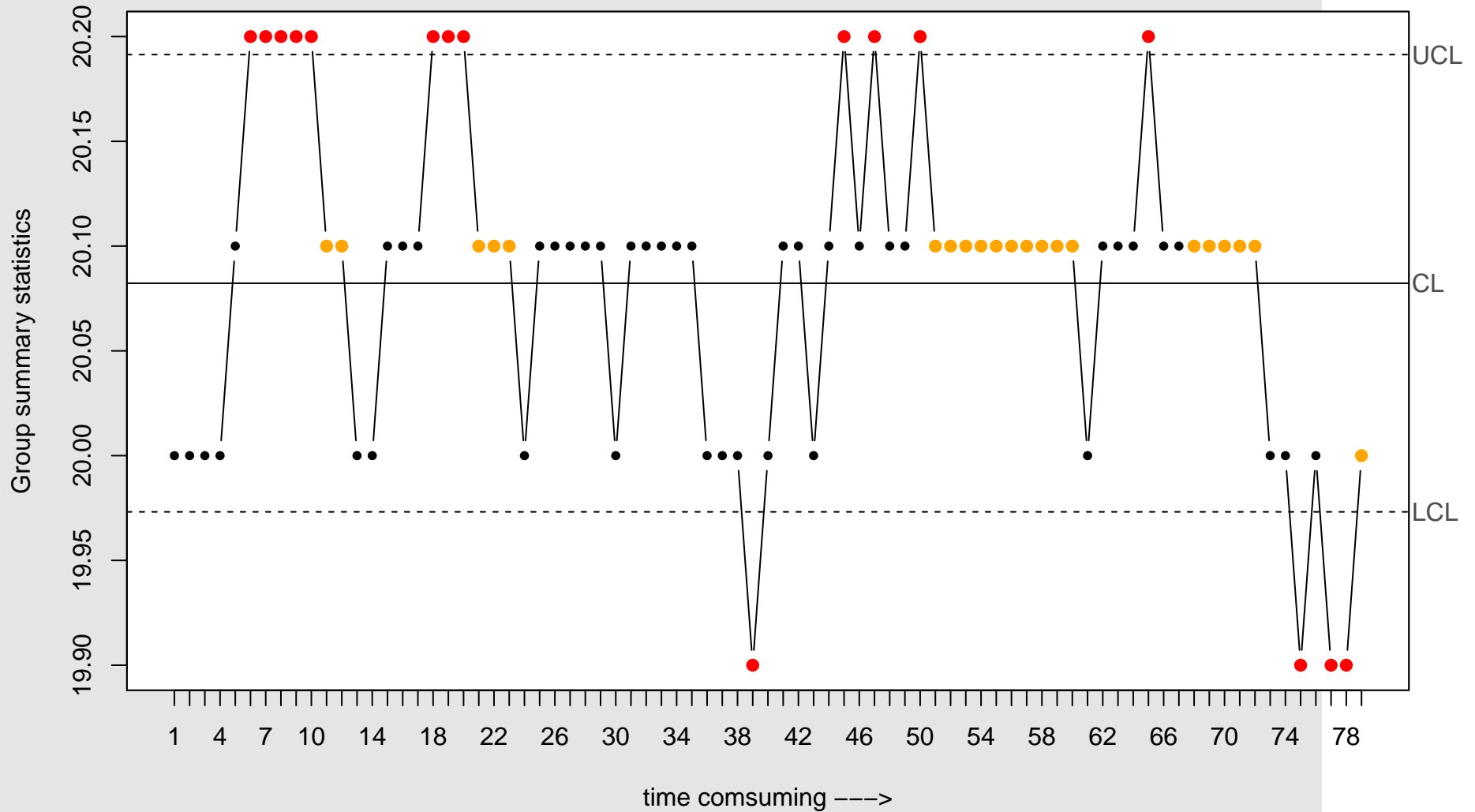
LCL = 19.96276

UCL = 20.1537

Number beyond limits = 12

Number violating runs = 13

267th column point of this product

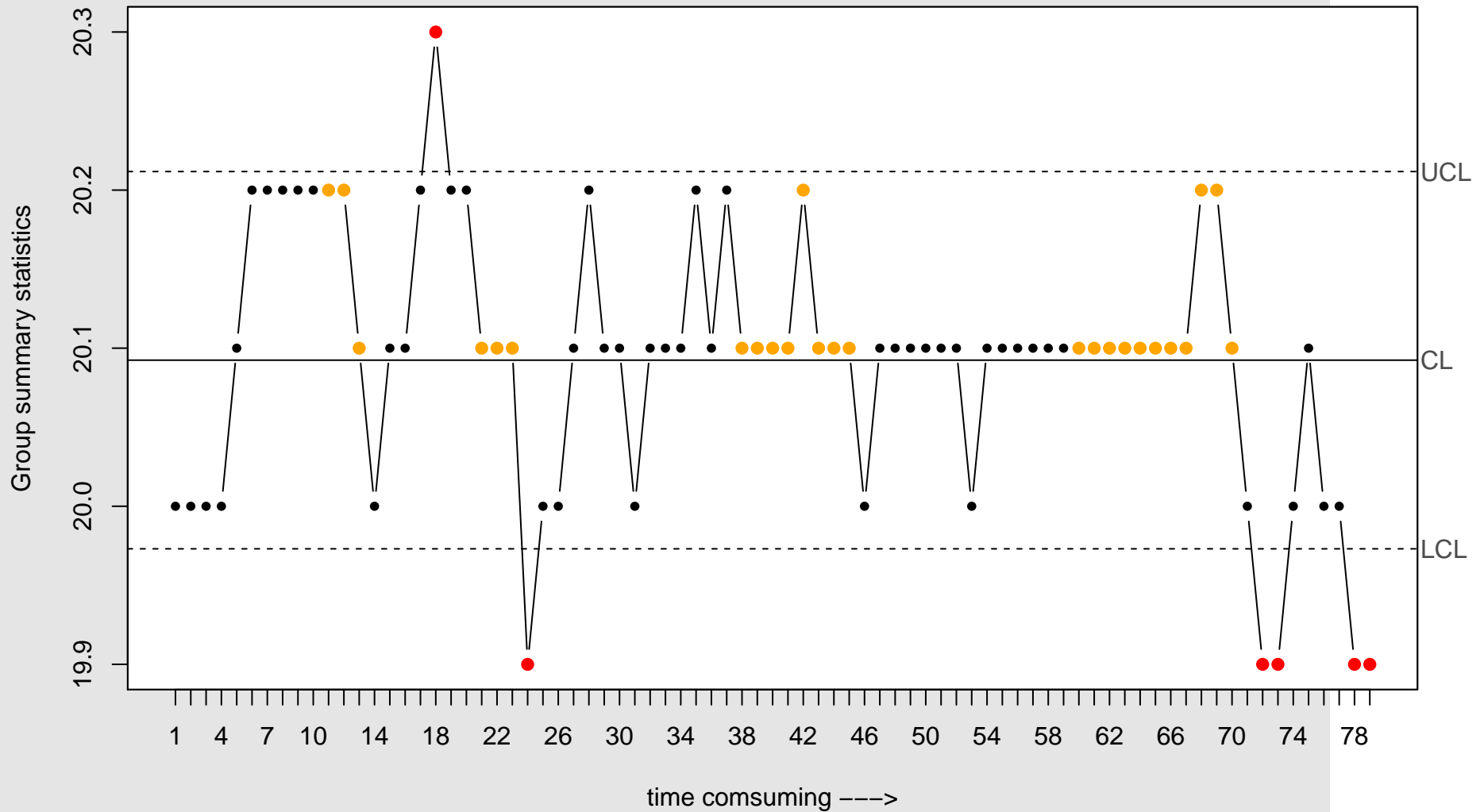


Number of groups = 79
 Center = 20.08228
 StdDev = 0.03637025

LCL = 19.97317
 UCL = 20.19139

Number beyond limits = 16
 Number violating runs = 22

268th column point of this product

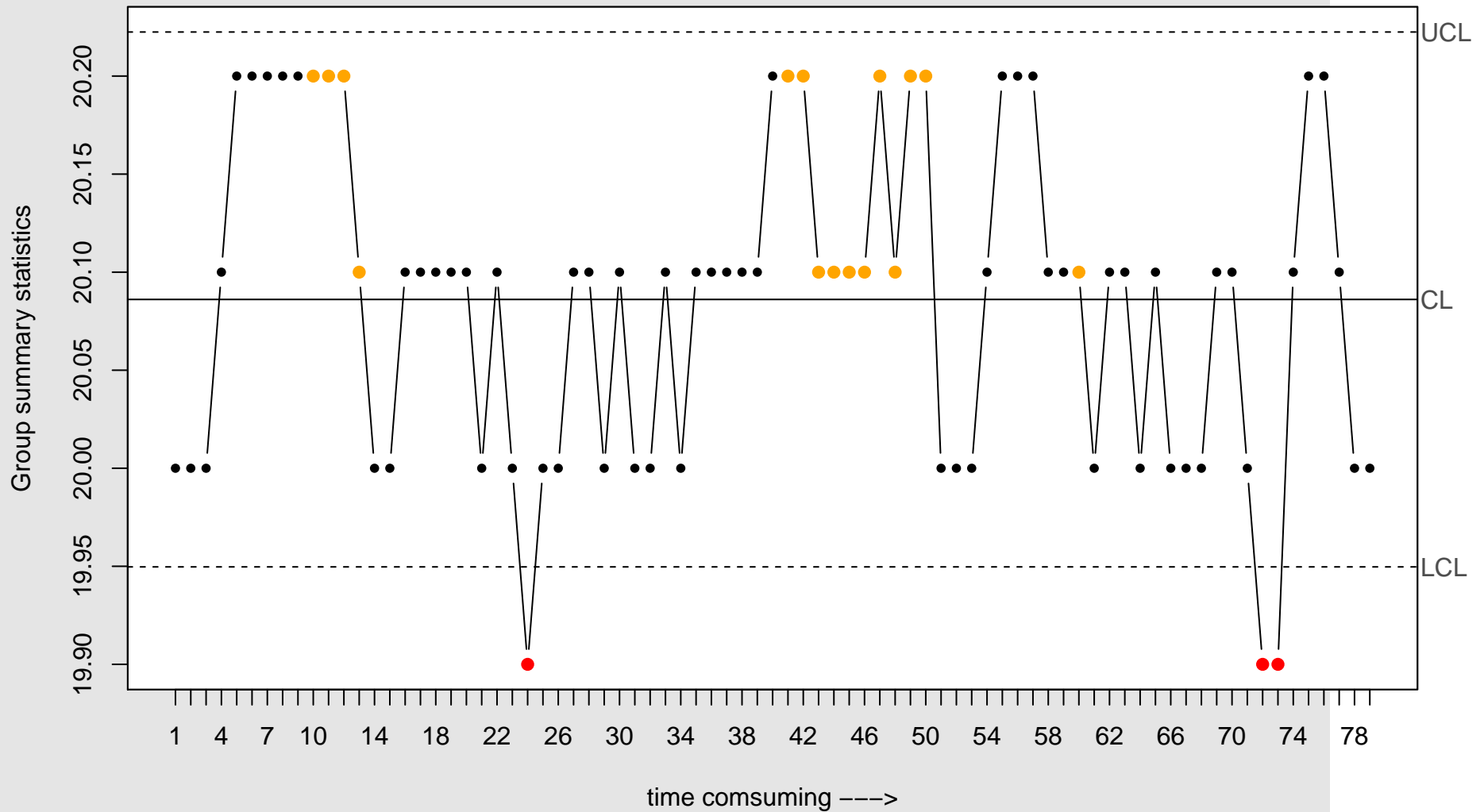


Number of groups = 79
 Center = 20.09241
 StdDev = 0.03977996

LCL = 19.97307
 UCL = 20.21174

Number beyond limits = 6
 Number violating runs = 25

269th column point of this product

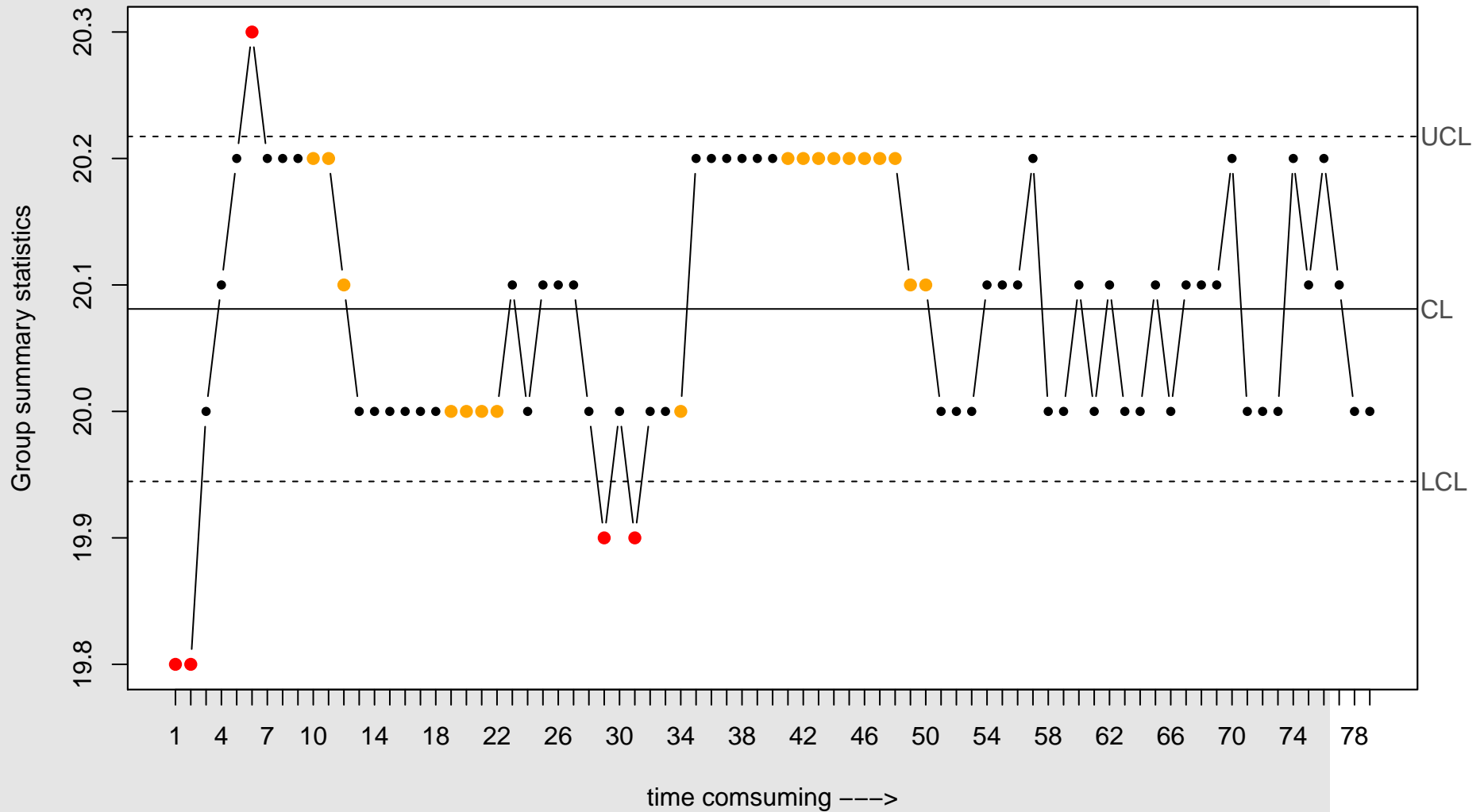


Number of groups = 79
 Center = 20.08608
 StdDev = 0.04546281

LCL = 19.94969
 UCL = 20.22246

Number beyond limits = 3
 Number violating runs = 15

270th column point of this product



Number of groups = 79

Center = 20.08101

StdDev = 0.04546281

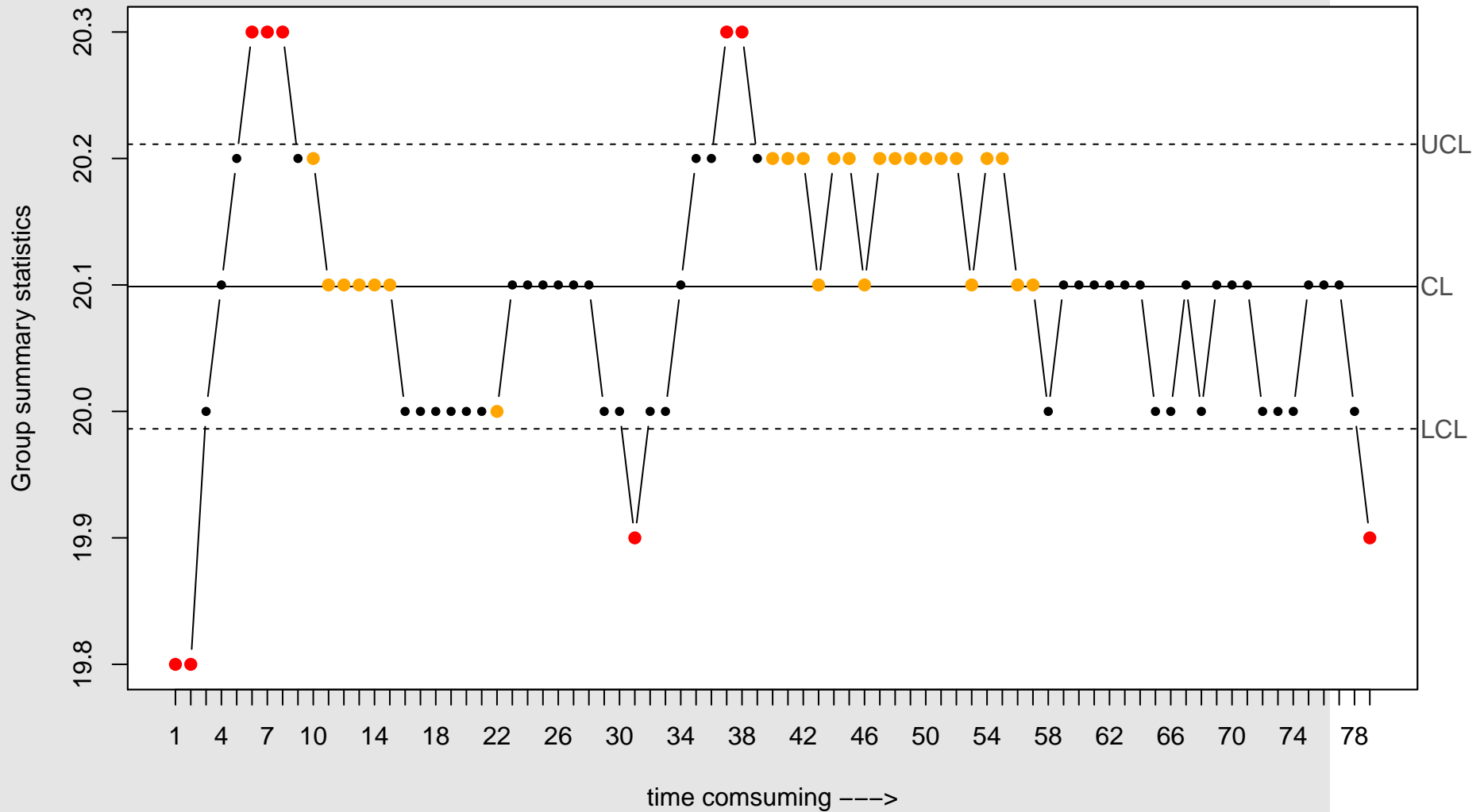
LCL = 19.94462

UCL = 20.2174

Number beyond limits = 5

Number violating runs = 18

271th column point of this product



Number of groups = 79

Center = 20.09873

StdDev = 0.03750682

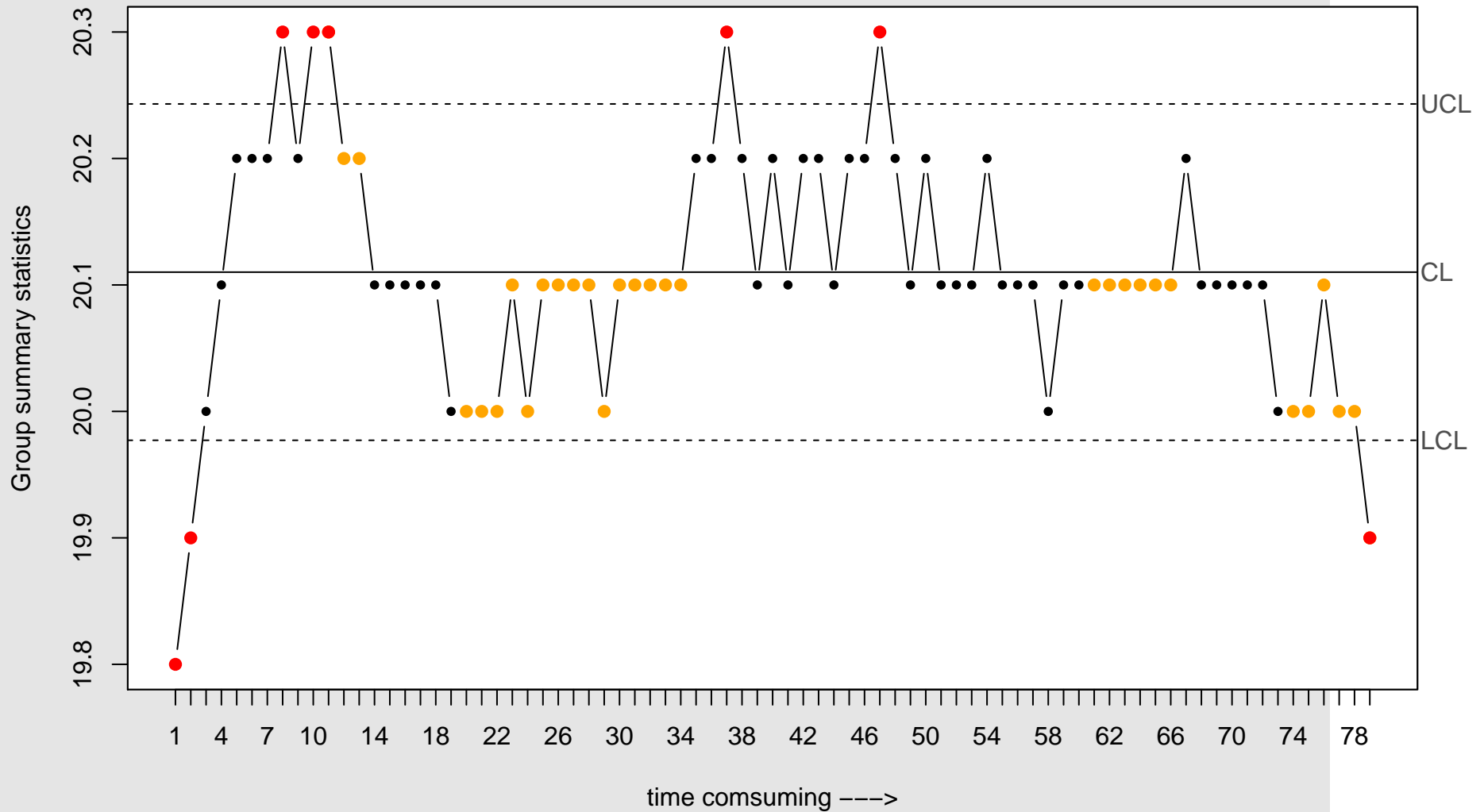
LCL = 19.98621

UCL = 20.21125

Number beyond limits = 9

Number violating runs = 25

272th column point of this product

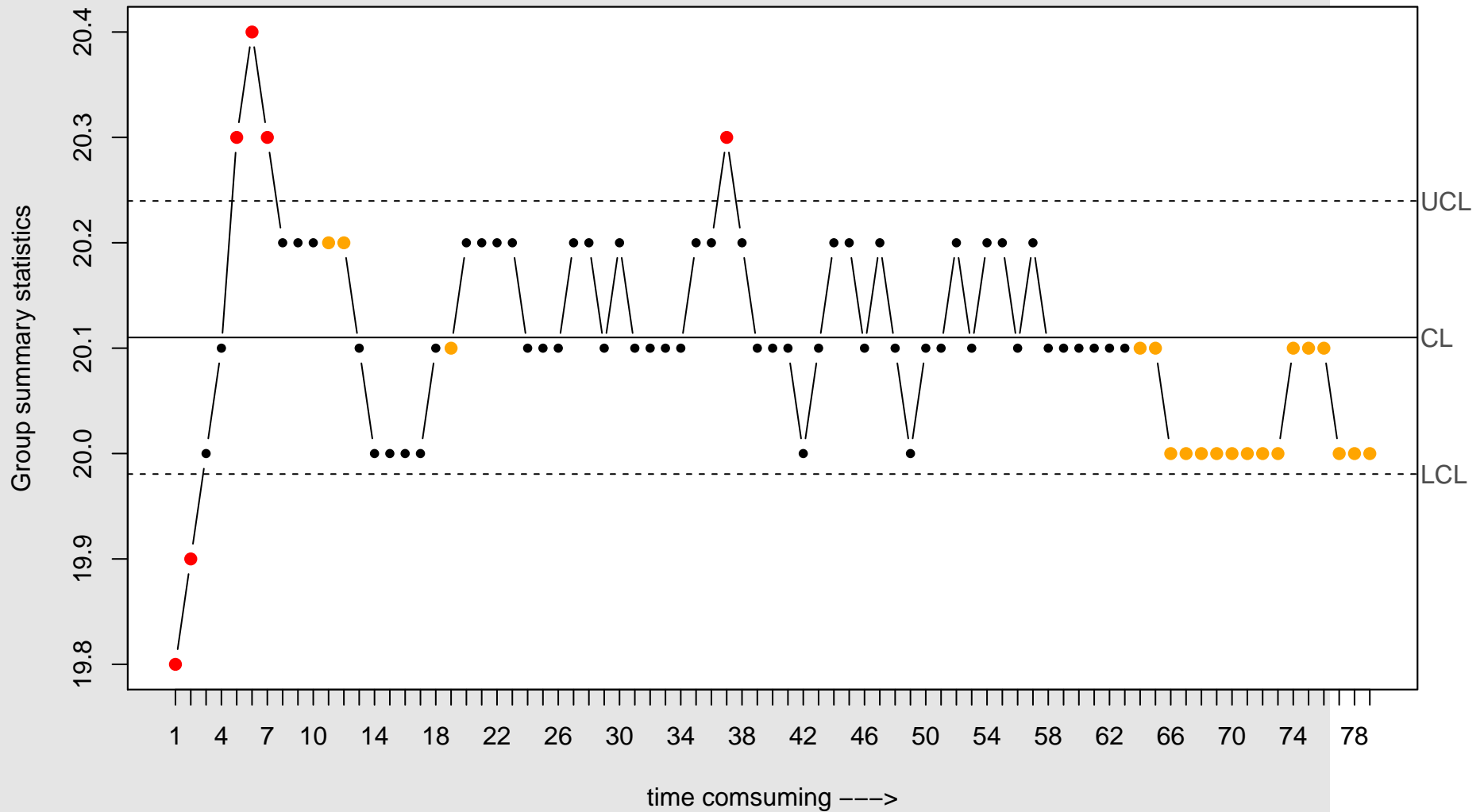


Number of groups = 79
 Center = 20.11013
 StdDev = 0.04432624

LCL = 19.97715
 UCL = 20.24311

Number beyond limits = 8
 Number violating runs = 30

273th column point of this product



Number of groups = 79

Center = 20.11013

StdDev = 0.04318967

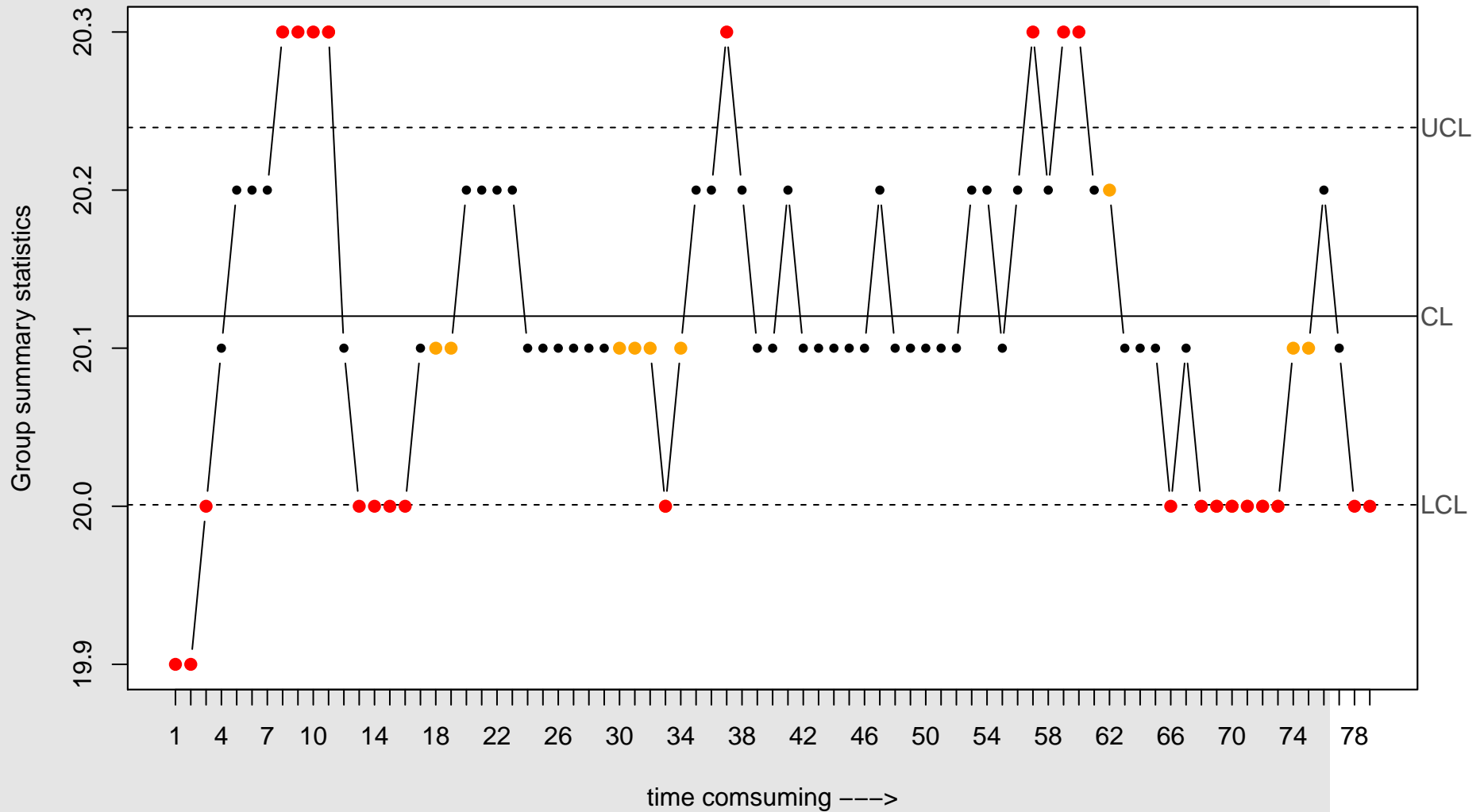
LCL = 19.98056

UCL = 20.2397

Number beyond limits = 6

Number violating runs = 19

274th column point of this product

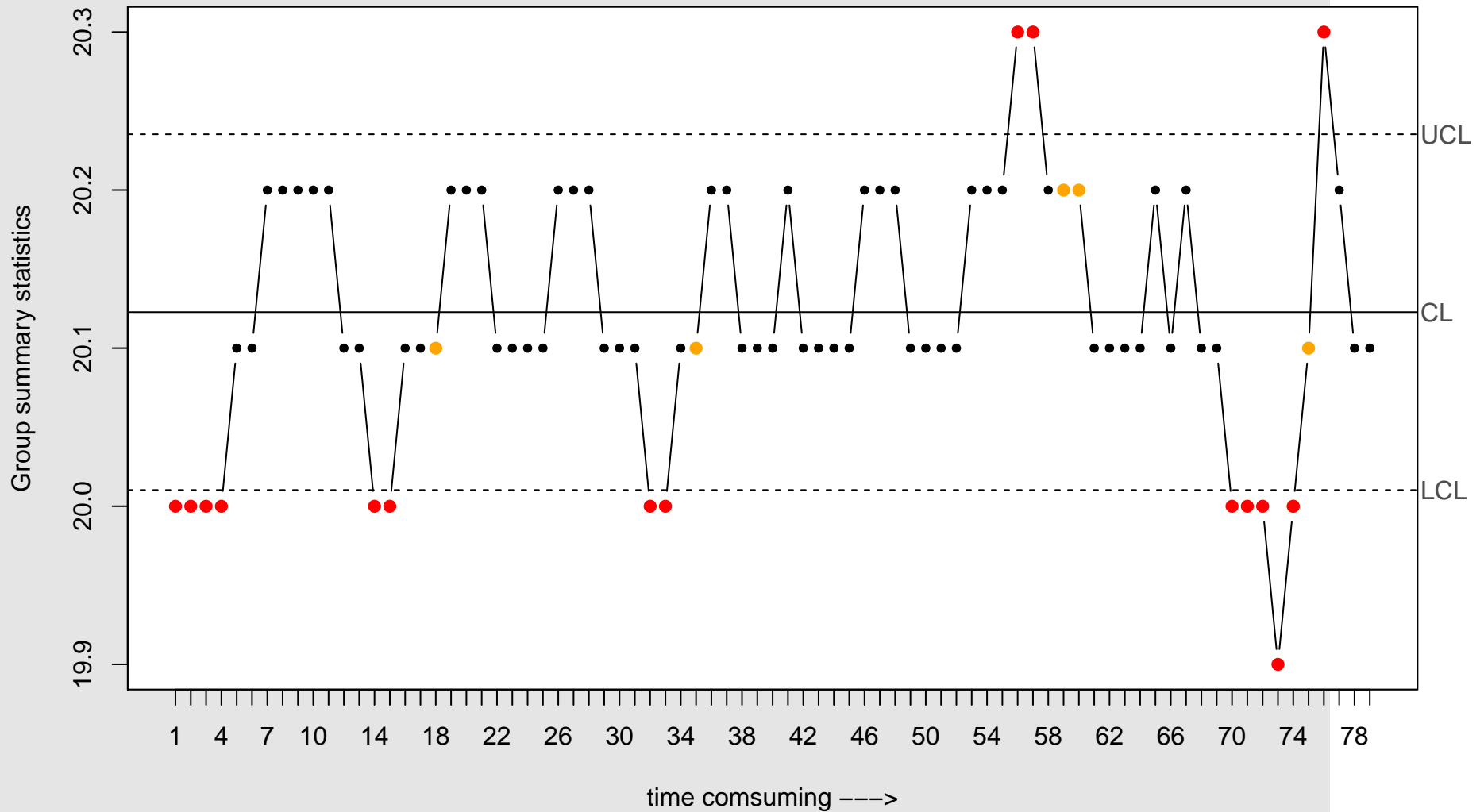


Number of groups = 79
 Center = 20.12025
 StdDev = 0.03977996

LCL = 20.00091
 UCL = 20.23959

Number beyond limits = 25
 Number violating runs = 16

275th column point of this product

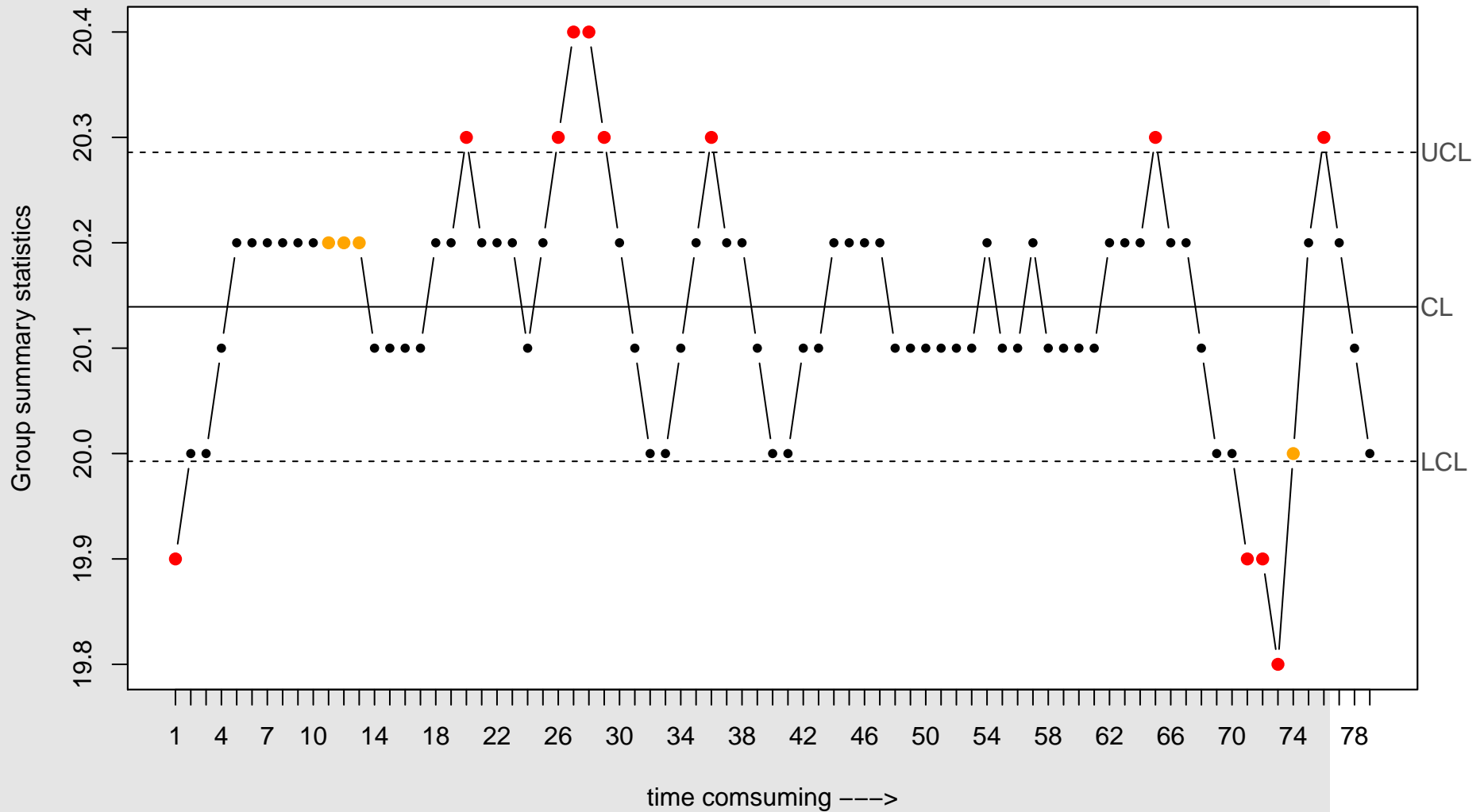


Number of groups = 79
 Center = 20.12278
 StdDev = 0.03750682

LCL = 20.01026
 UCL = 20.23531

Number beyond limits = 16
 Number violating runs = 6

276th column point of this product

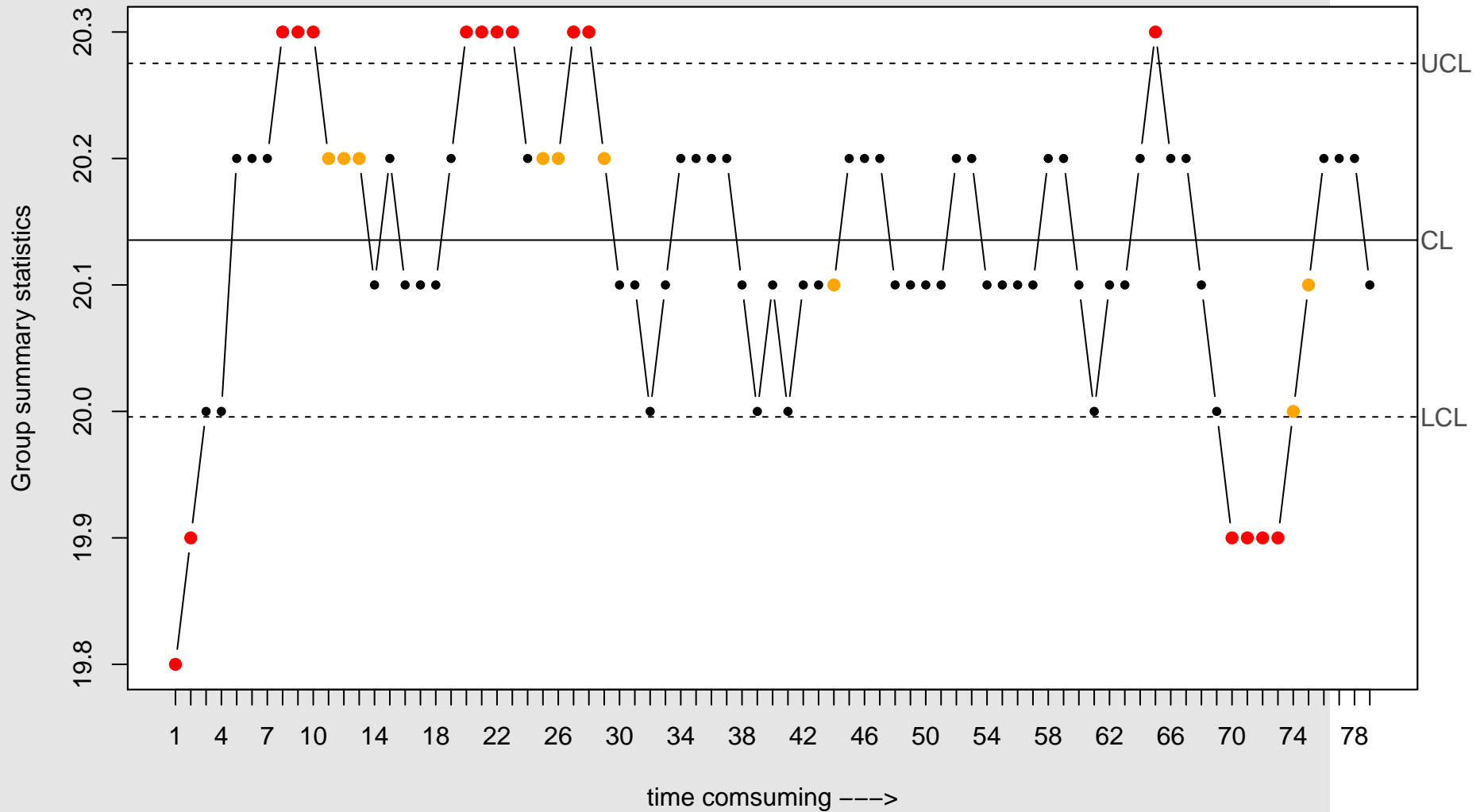


Number of groups = 79
 Center = 20.13924
 StdDev = 0.04887252

LCL = 19.99262
 UCL = 20.28586

Number beyond limits = 12
 Number violating runs = 4

277th column point of this product

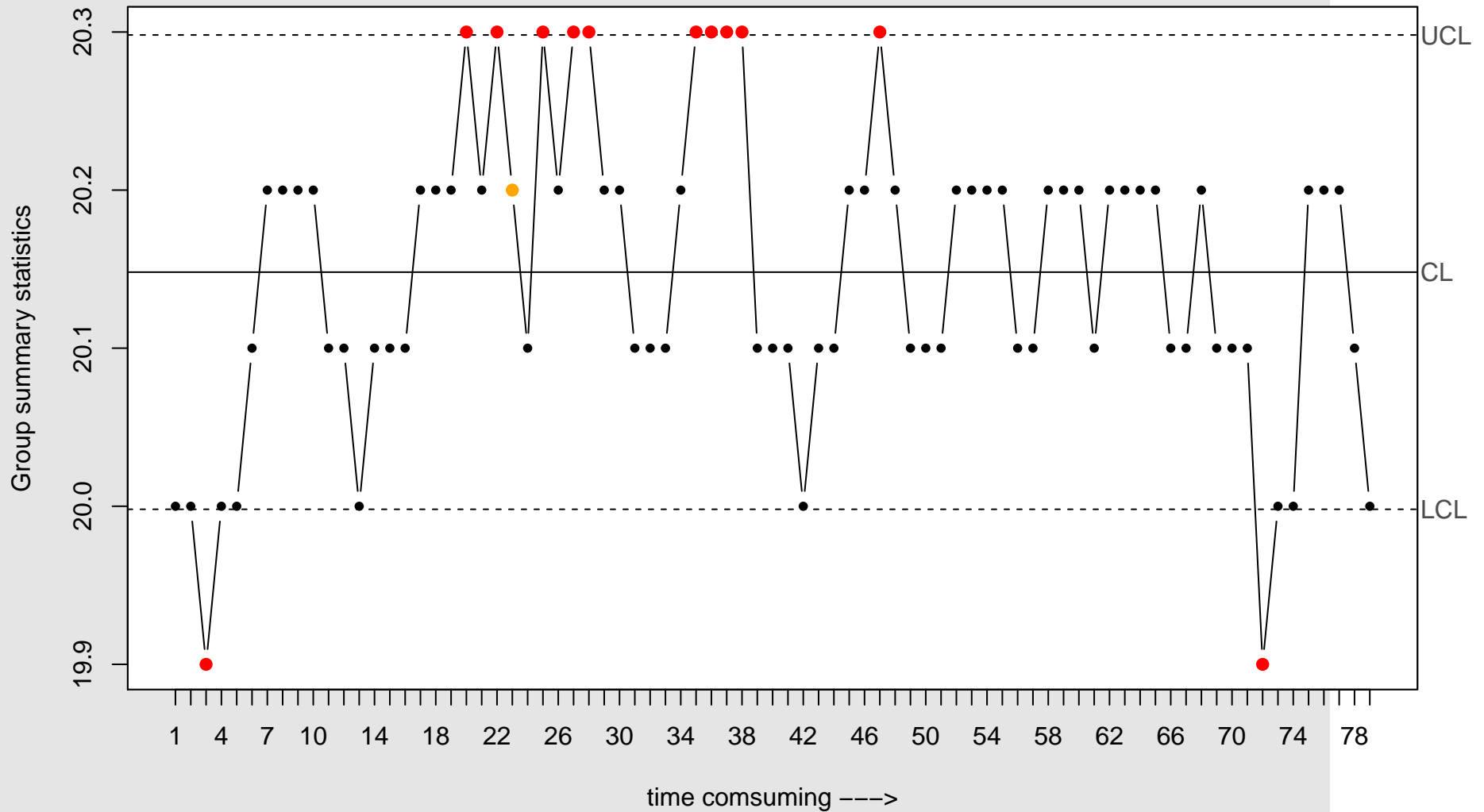


Number of groups = 79
 Center = 20.13544
 StdDev = 0.04659938

LCL = 19.99564
 UCL = 20.27524

Number beyond limits = 16
 Number violating runs = 11

278th column point of this product

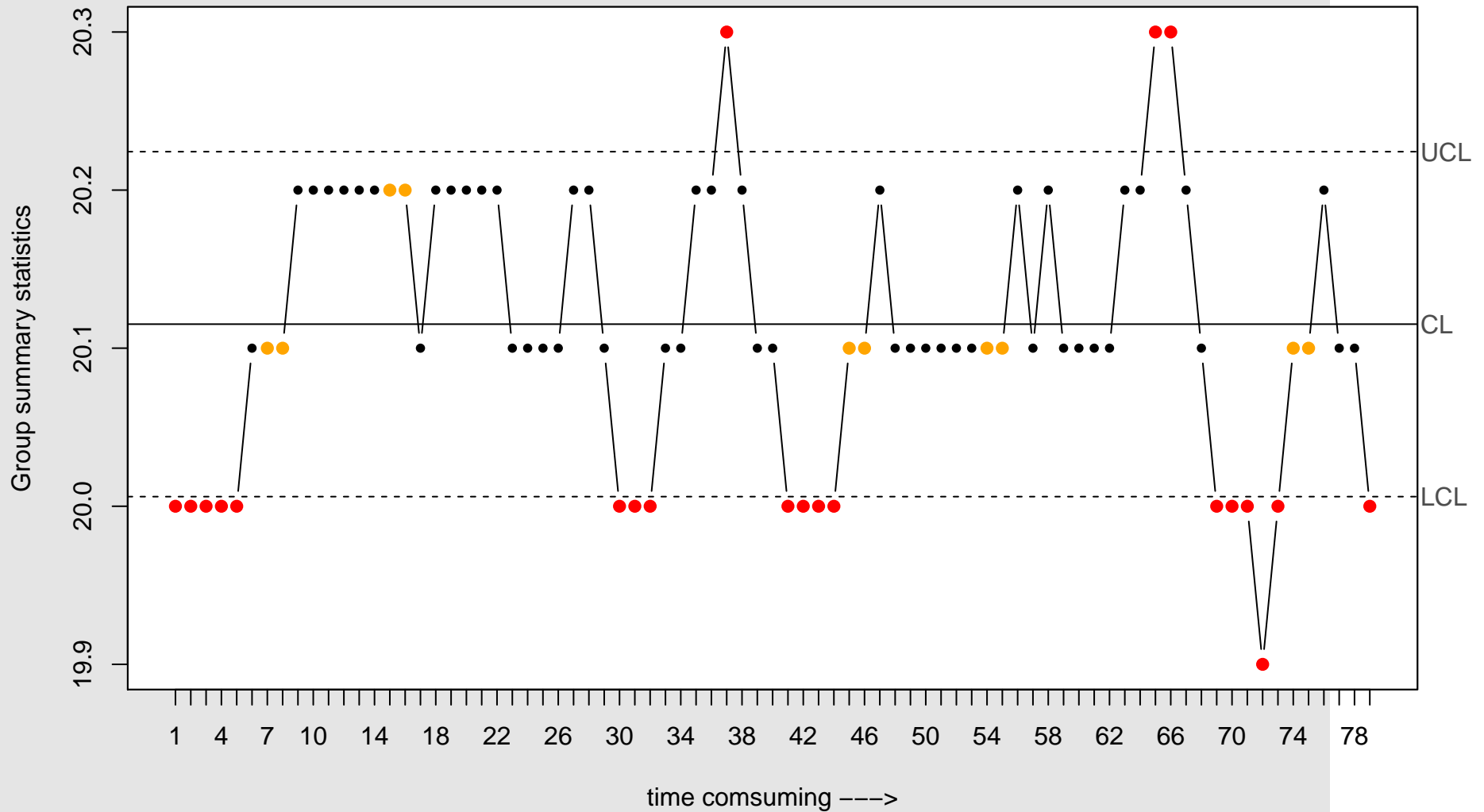


Number of groups = 79
 Center = 20.1481
 StdDev = 0.05000909

LCL = 19.99807
 UCL = 20.29813

Number beyond limits = 12
 Number violating runs = 1

279th column point of this product

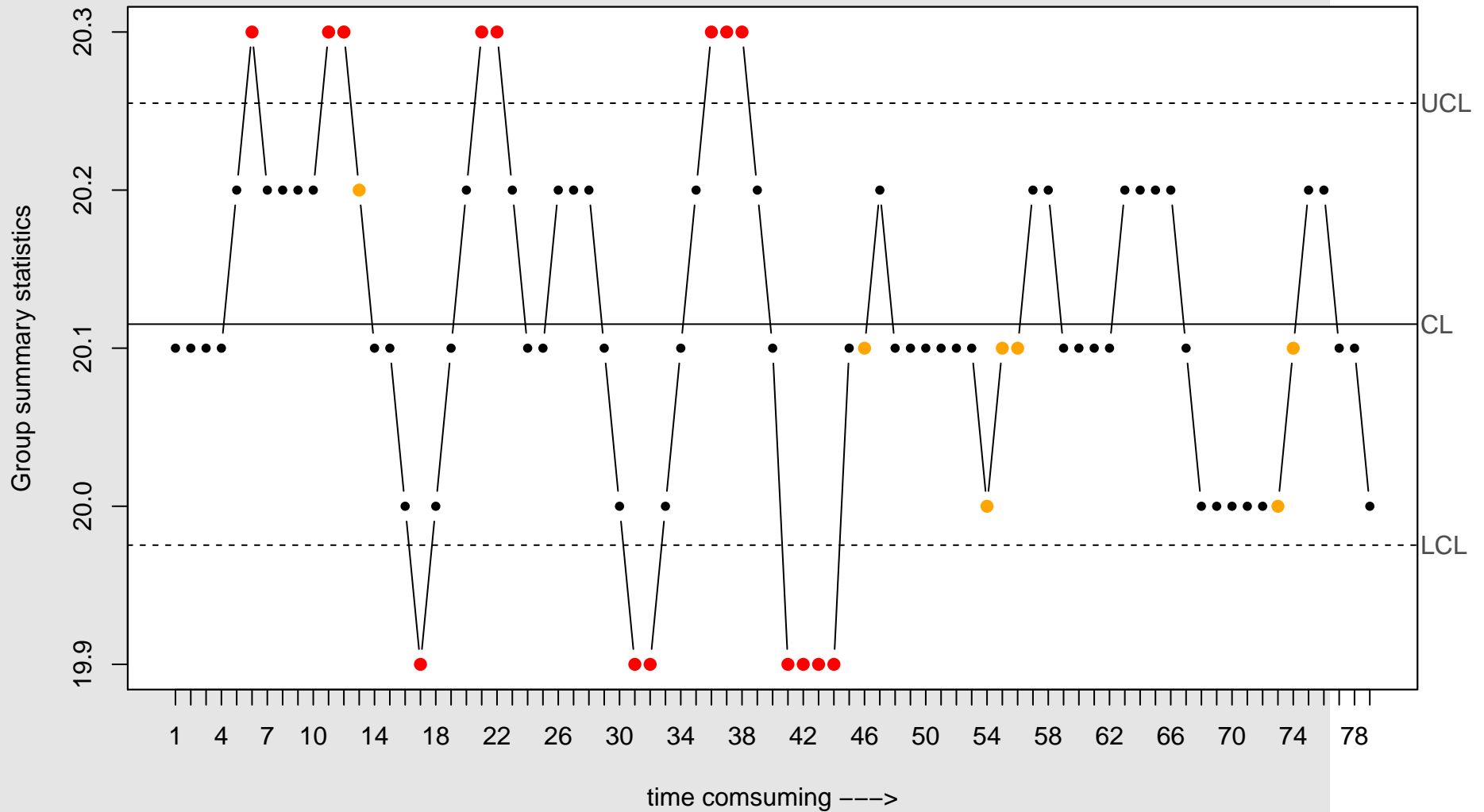


Number of groups = 79
 Center = 20.11519
 StdDev = 0.03637025

LCL = 20.00608
 UCL = 20.2243

Number beyond limits = 21
 Number violating runs = 10

280th column point of this product

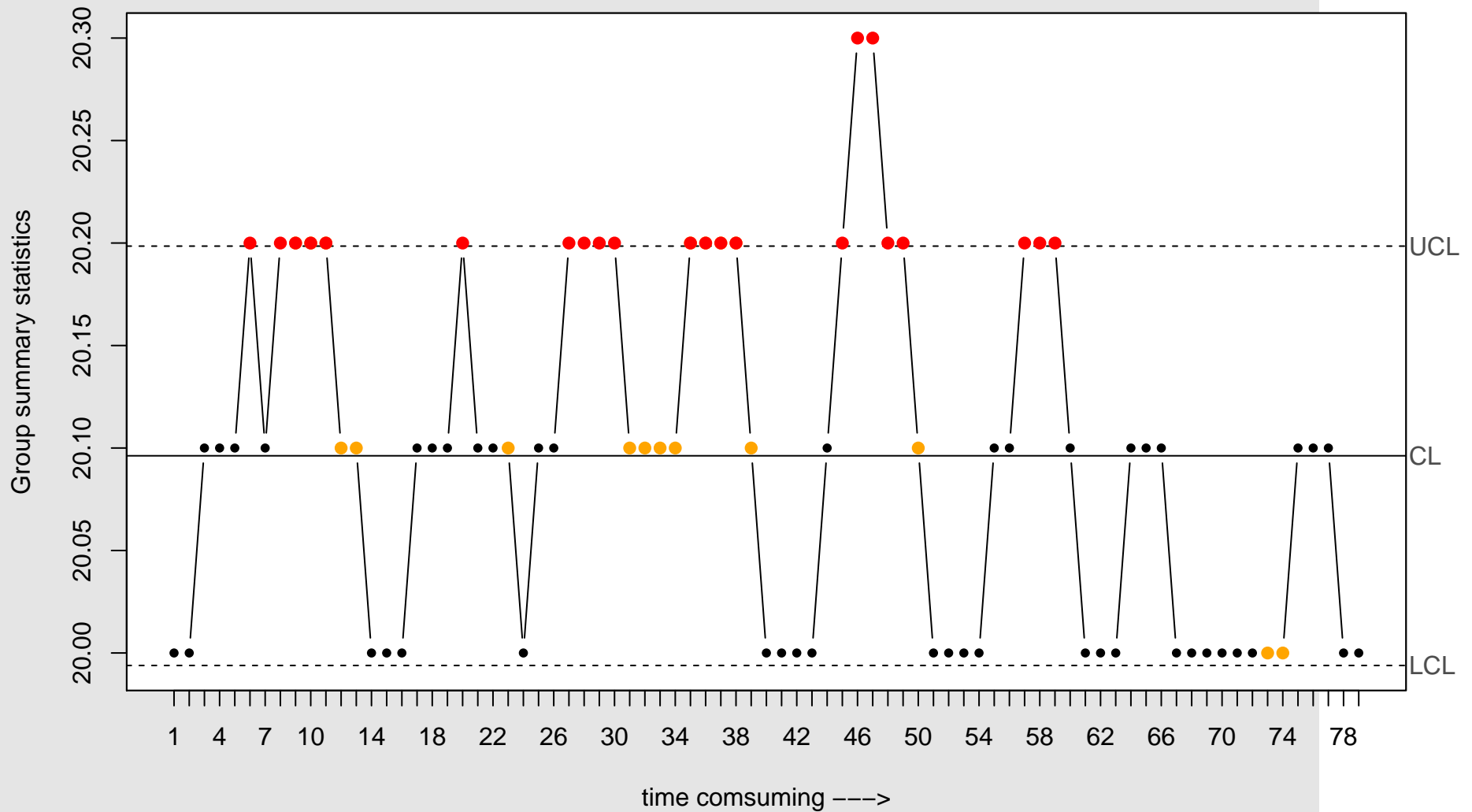


Number of groups = 79
 Center = 20.11519
 StdDev = 0.04659938

LCL = 19.97539
 UCL = 20.25499

Number beyond limits = 15
 Number violating runs = 9

281th column point of this product

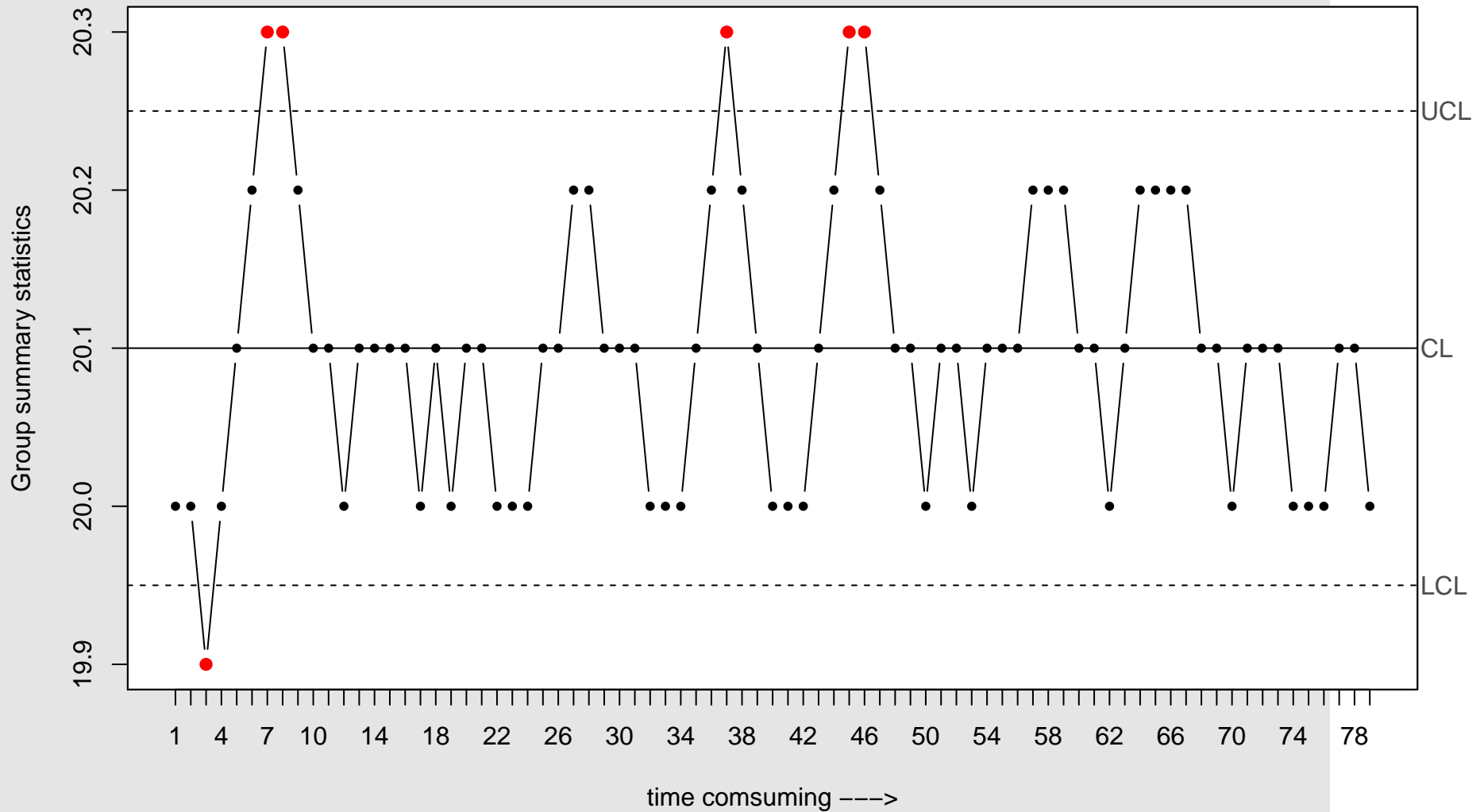


Number of groups = 79
 Center = 20.0962
 StdDev = 0.03409711

LCL = 19.99391
 UCL = 20.19849

Number beyond limits = 22
 Number violating runs = 18

282th column point of this product



Number of groups = 79

Center = 20.1

StdDev = 0.05000909

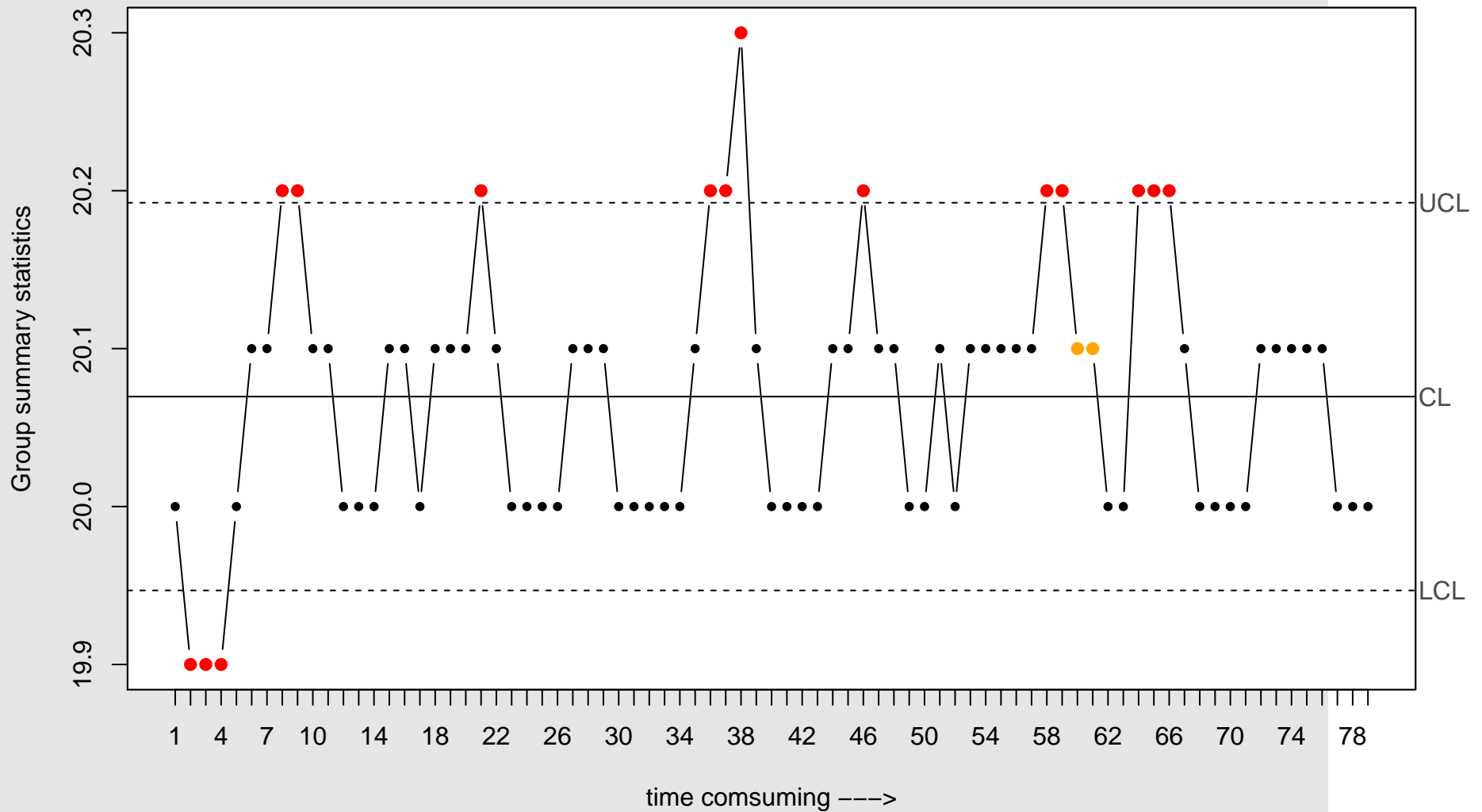
LCL = 19.94997

UCL = 20.25003

Number beyond limits = 6

Number violating runs = 0

283th column point of this product

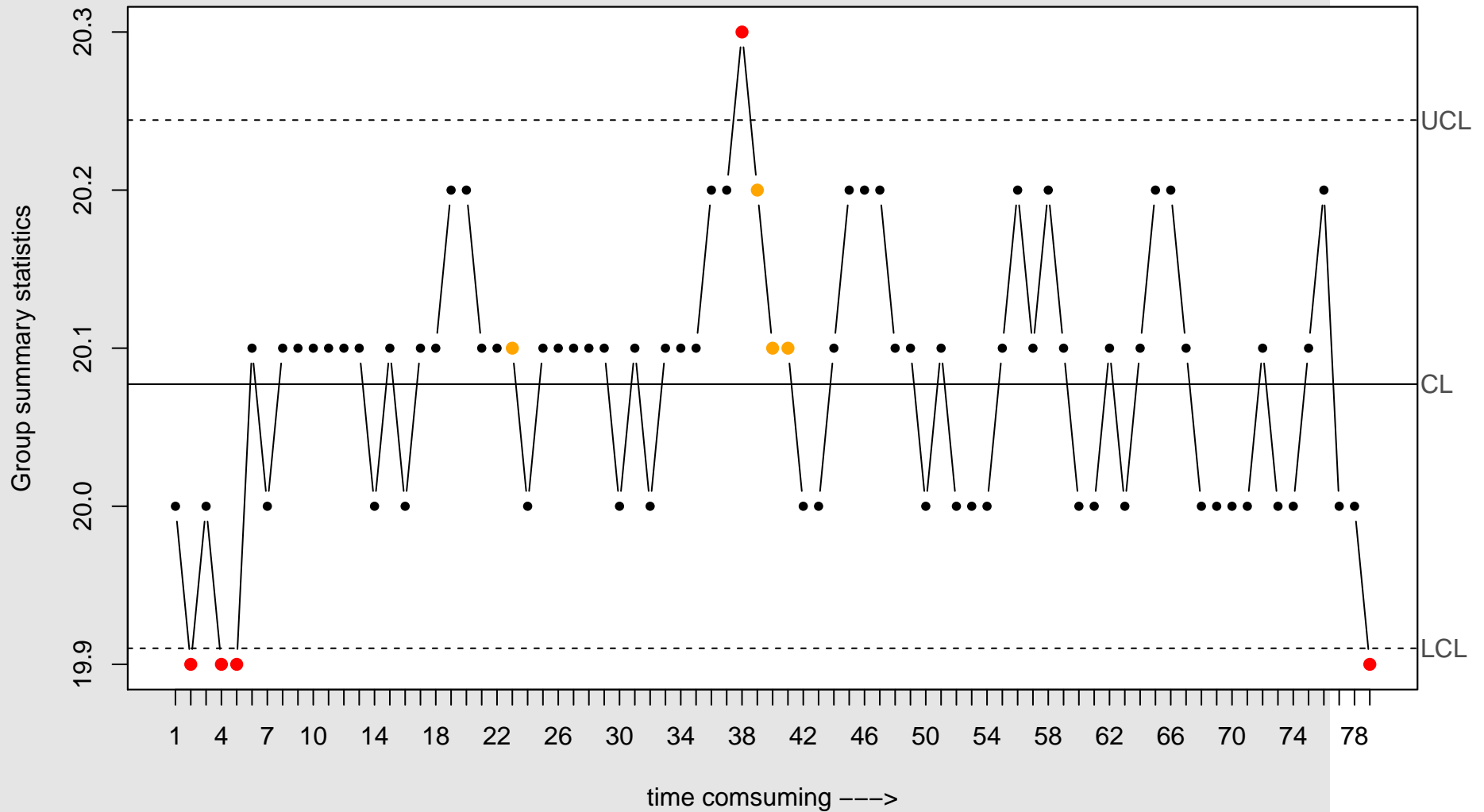


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04091653

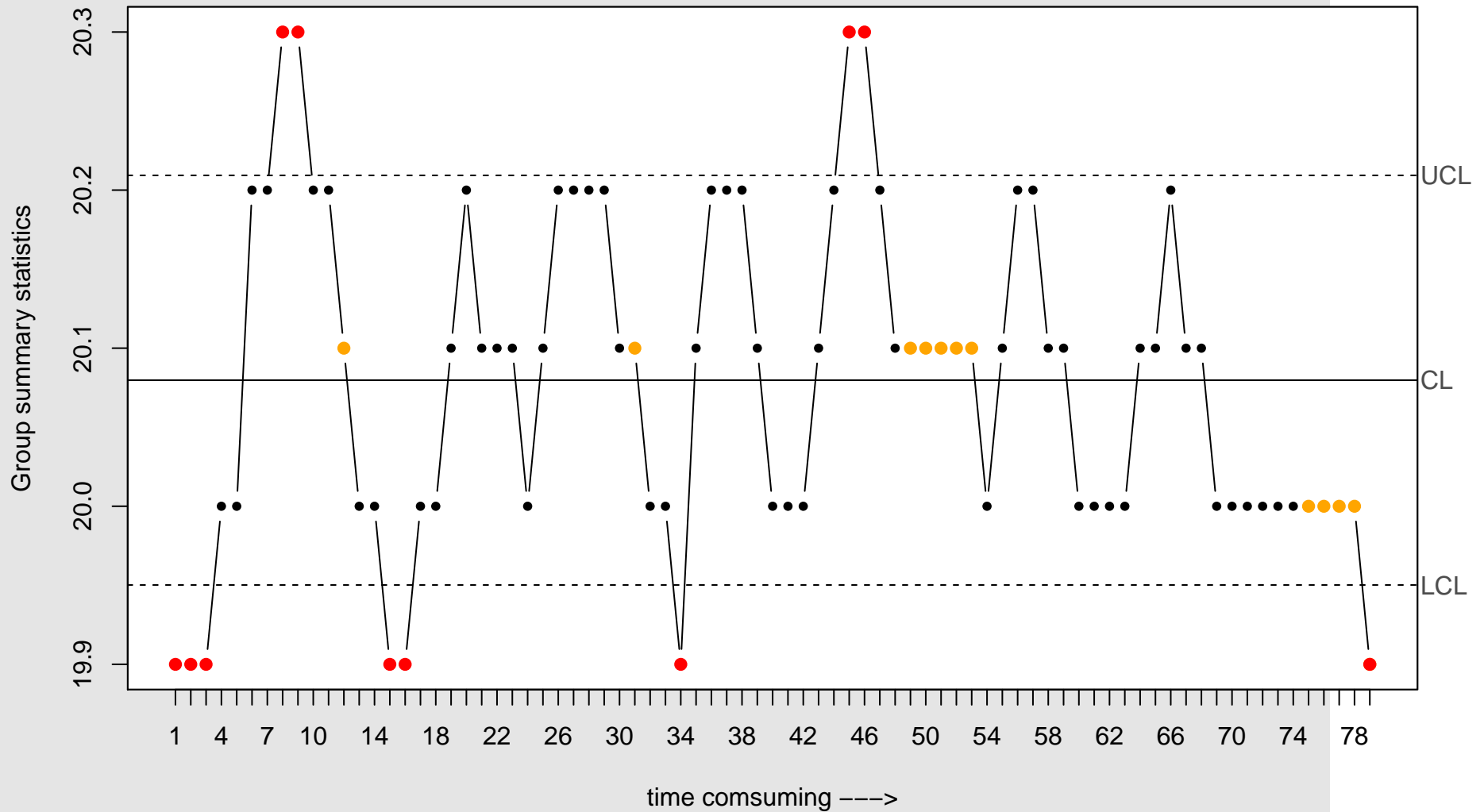
LCL = 19.94687
 UCL = 20.19237

Number beyond limits = 15
 Number violating runs = 3

284th column point of this product



285th column point of this product

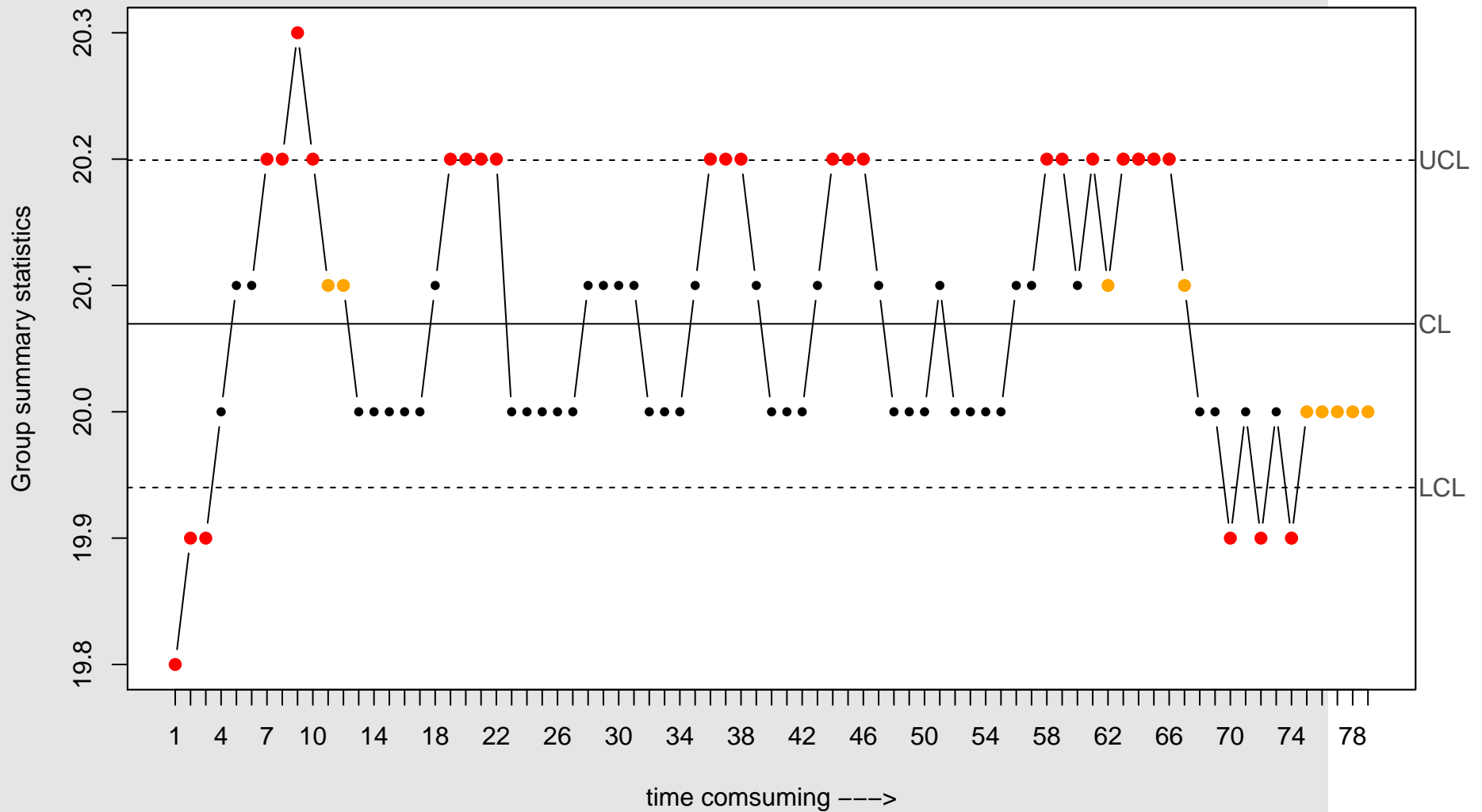


Number of groups = 79
 Center = 20.07975
 StdDev = 0.04318967

LCL = 19.95018
 UCL = 20.20932

Number beyond limits = 11
 Number violating runs = 12

286th column point of this product

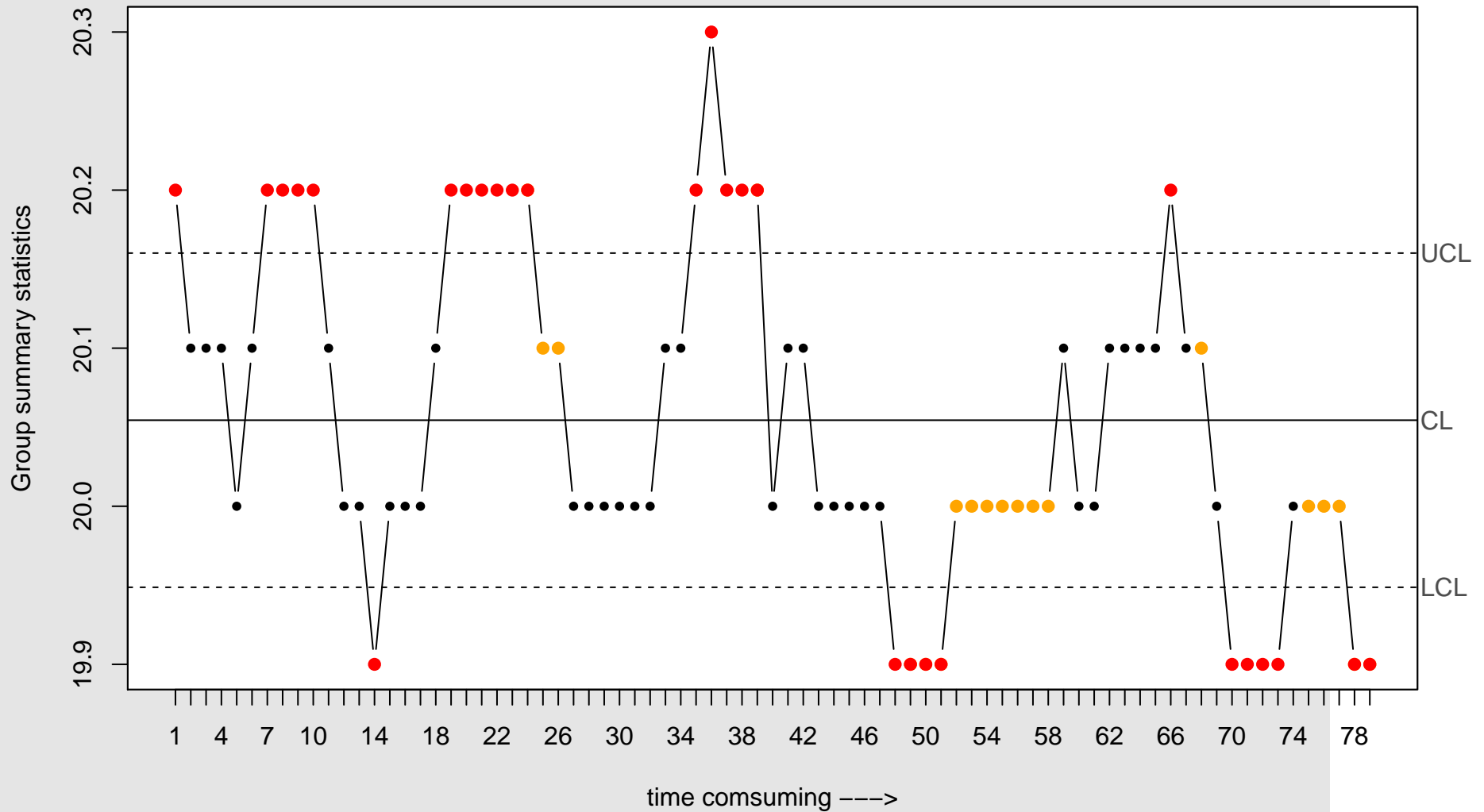


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04318967

LCL = 19.94005
 UCL = 20.19919

Number beyond limits = 27
 Number violating runs = 14

287th column point of this product



Number of groups = 79

Center = 20.05443

StdDev = 0.03523368

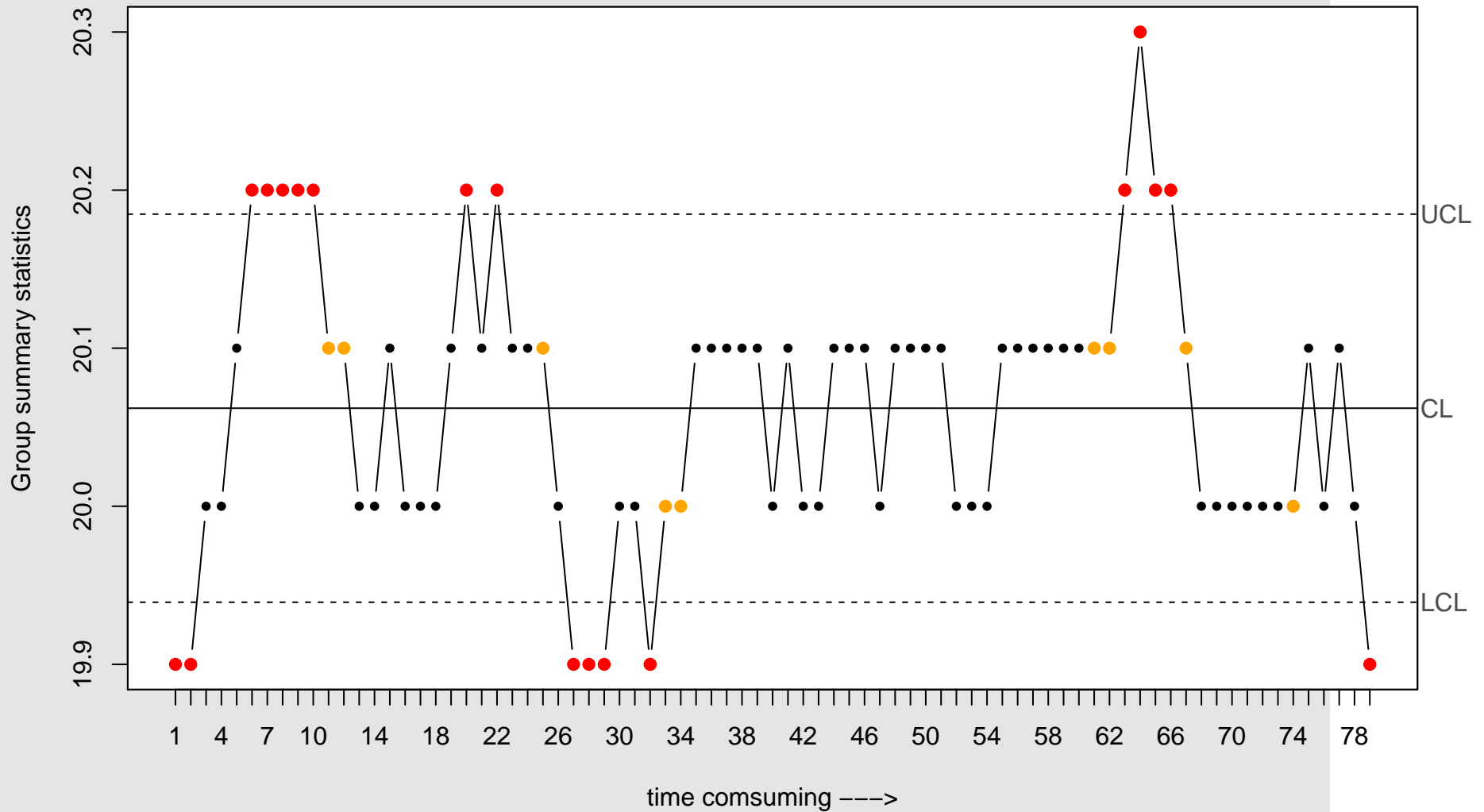
LCL = 19.94873

UCL = 20.16013

Number beyond limits = 28

Number violating runs = 20

288th column point of this product

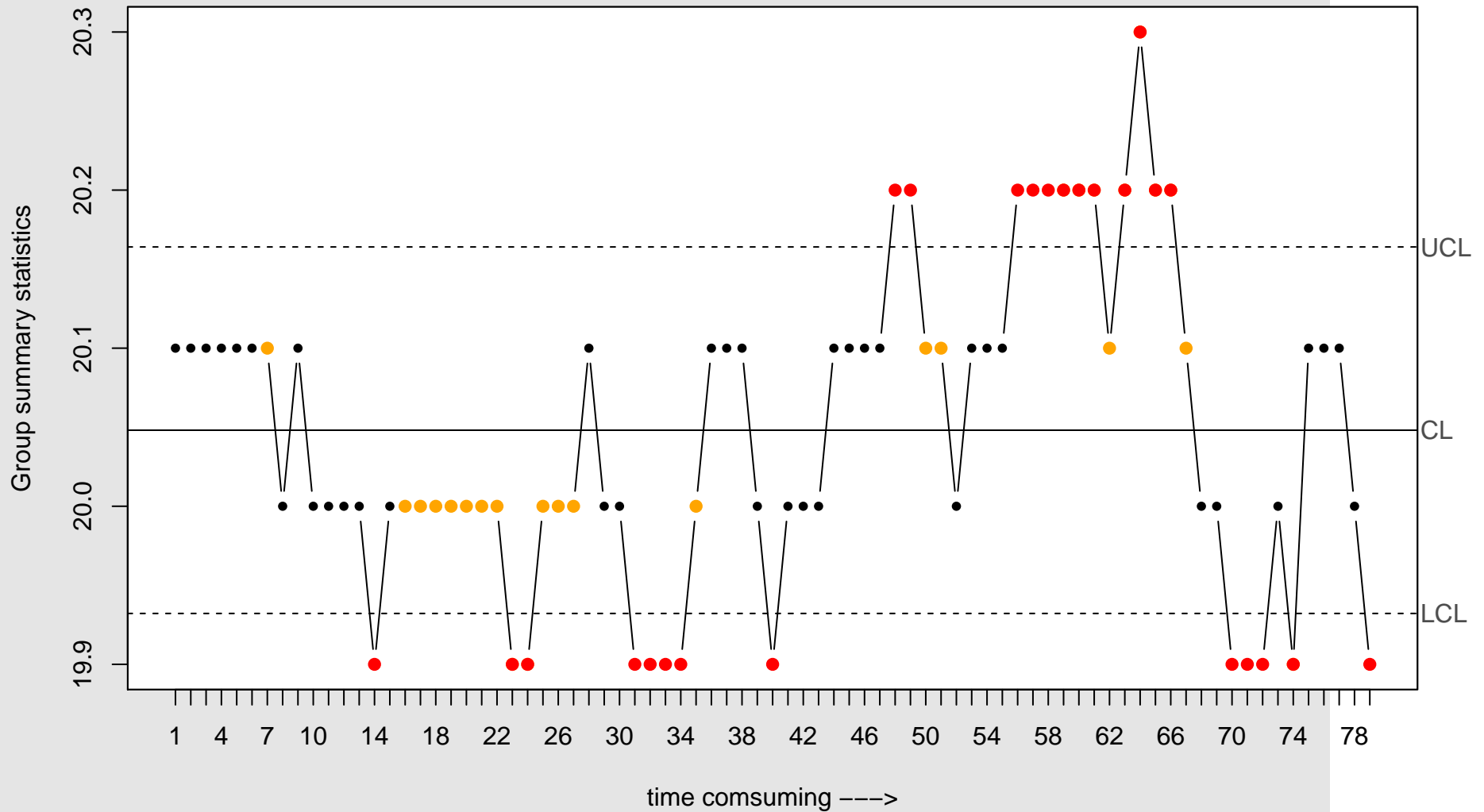


Number of groups = 79
Center = 20.06203
StdDev = 0.04091653

LCL = 19.93928
UCL = 20.18477

Number beyond limits = 18
Number violating runs = 14

289th column point of this product

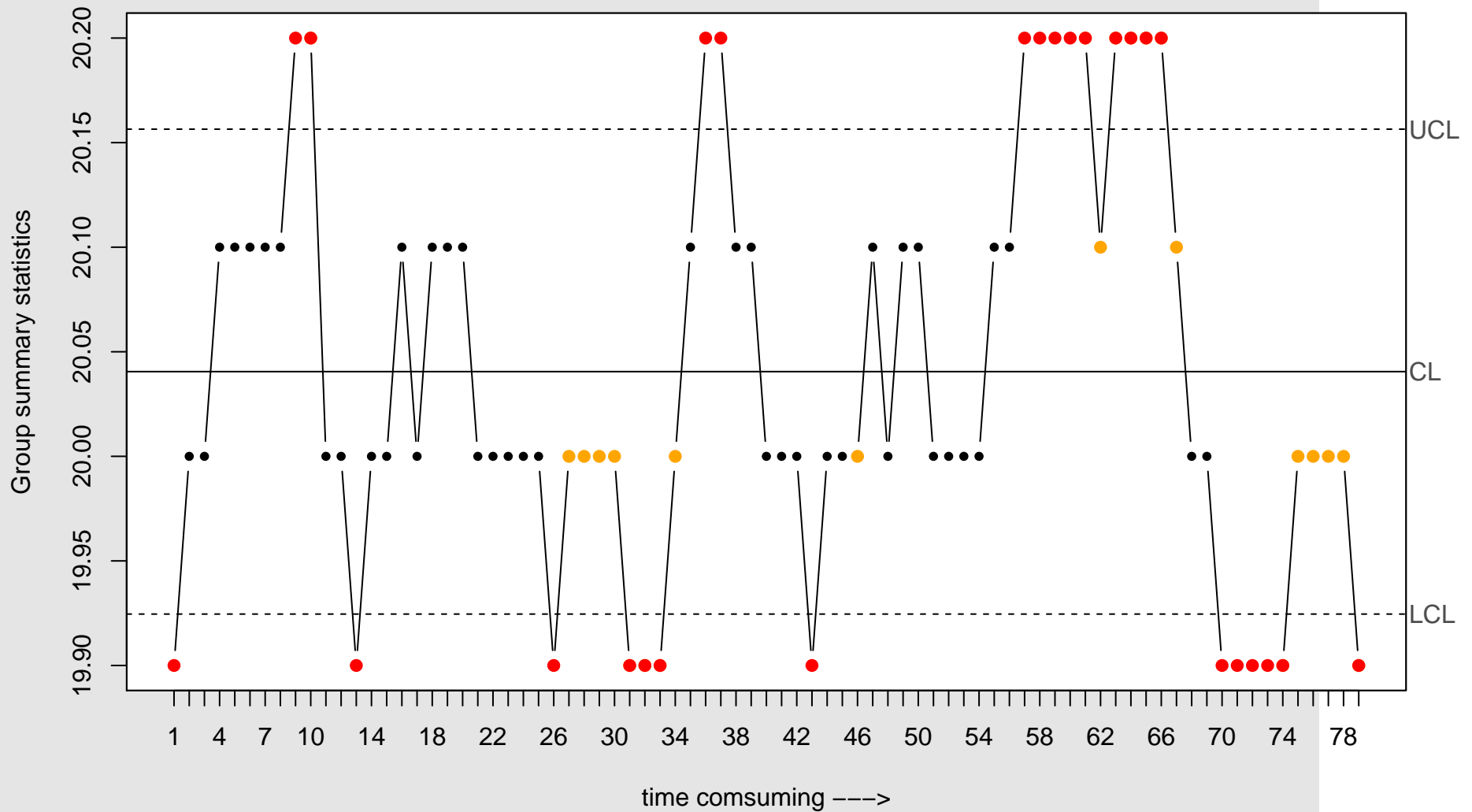


Number of groups = 79
 Center = 20.0481
 StdDev = 0.03864339

LCL = 19.93217
 UCL = 20.16403

Number beyond limits = 25
 Number violating runs = 26

290th column point of this product

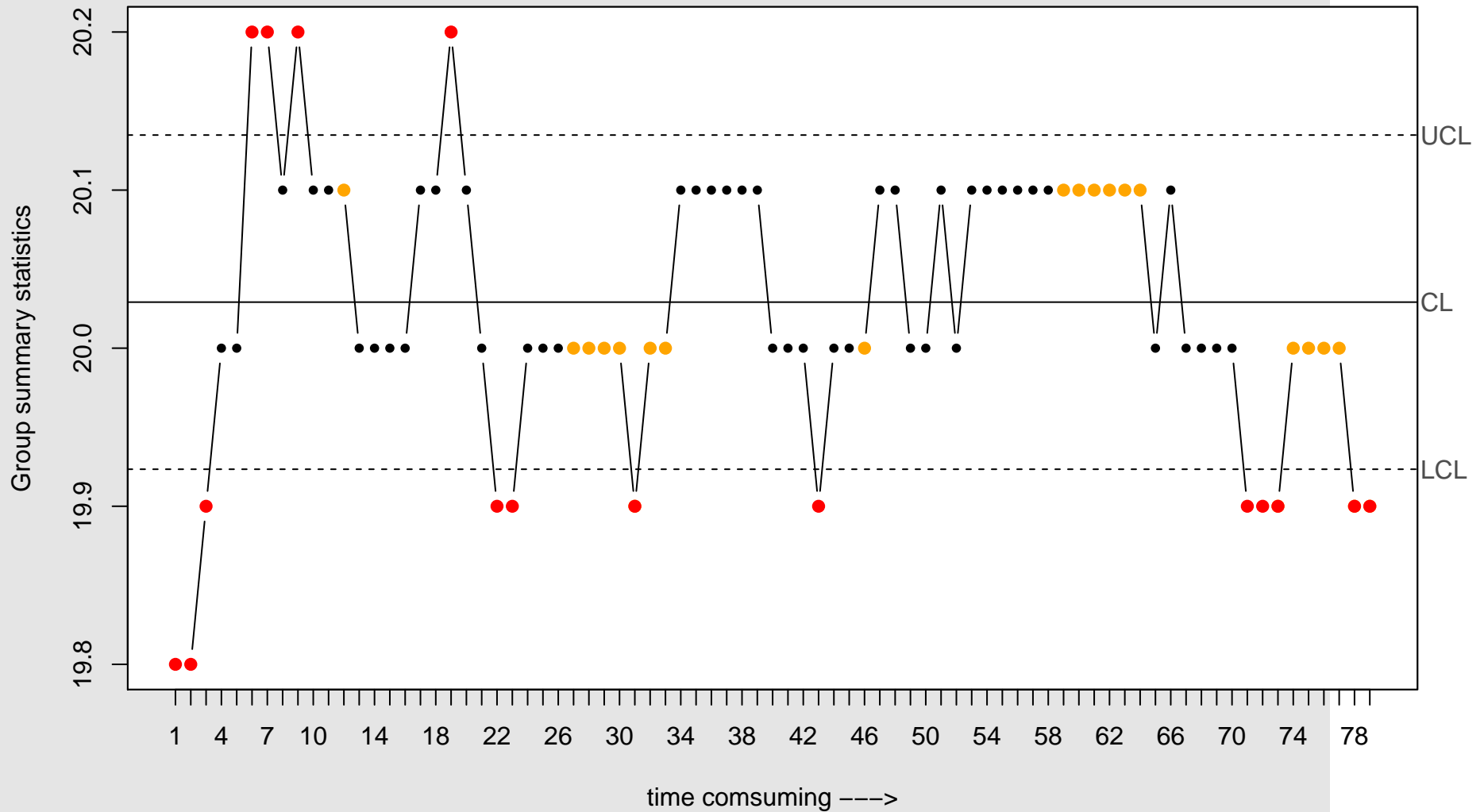


Number of groups = 79
 Center = 20.04051
 StdDev = 0.03864339

LCL = 19.92458
 UCL = 20.15644

Number beyond limits = 26
 Number violating runs = 23

291th column point of this product

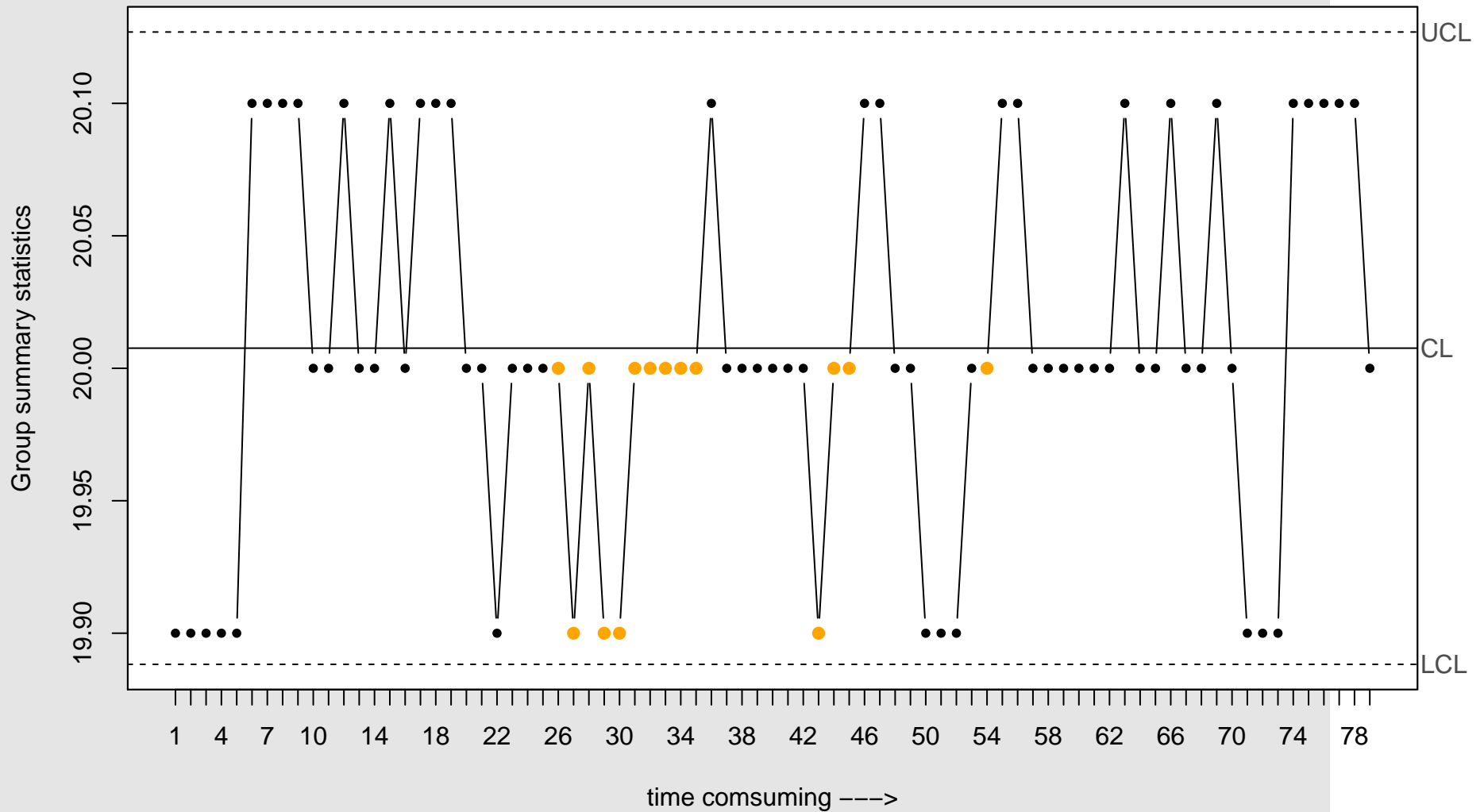


Number of groups = 79
 Center = 20.02911
 StdDev = 0.03523368

LCL = 19.92341
 UCL = 20.13481

Number beyond limits = 16
 Number violating runs = 22

292th column point of this product

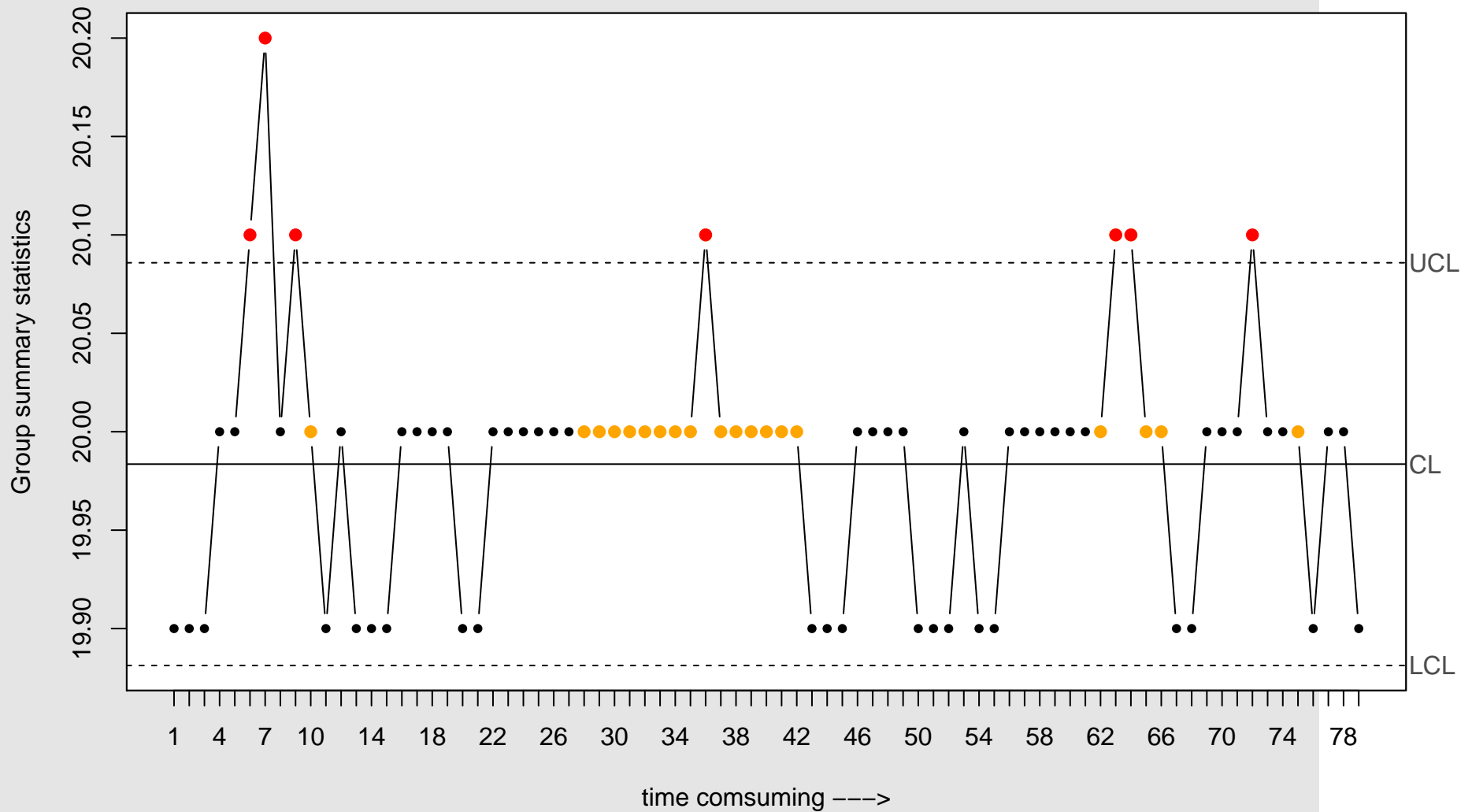


Number of groups = 79
Center = 20.00759
StdDev = 0.03977996

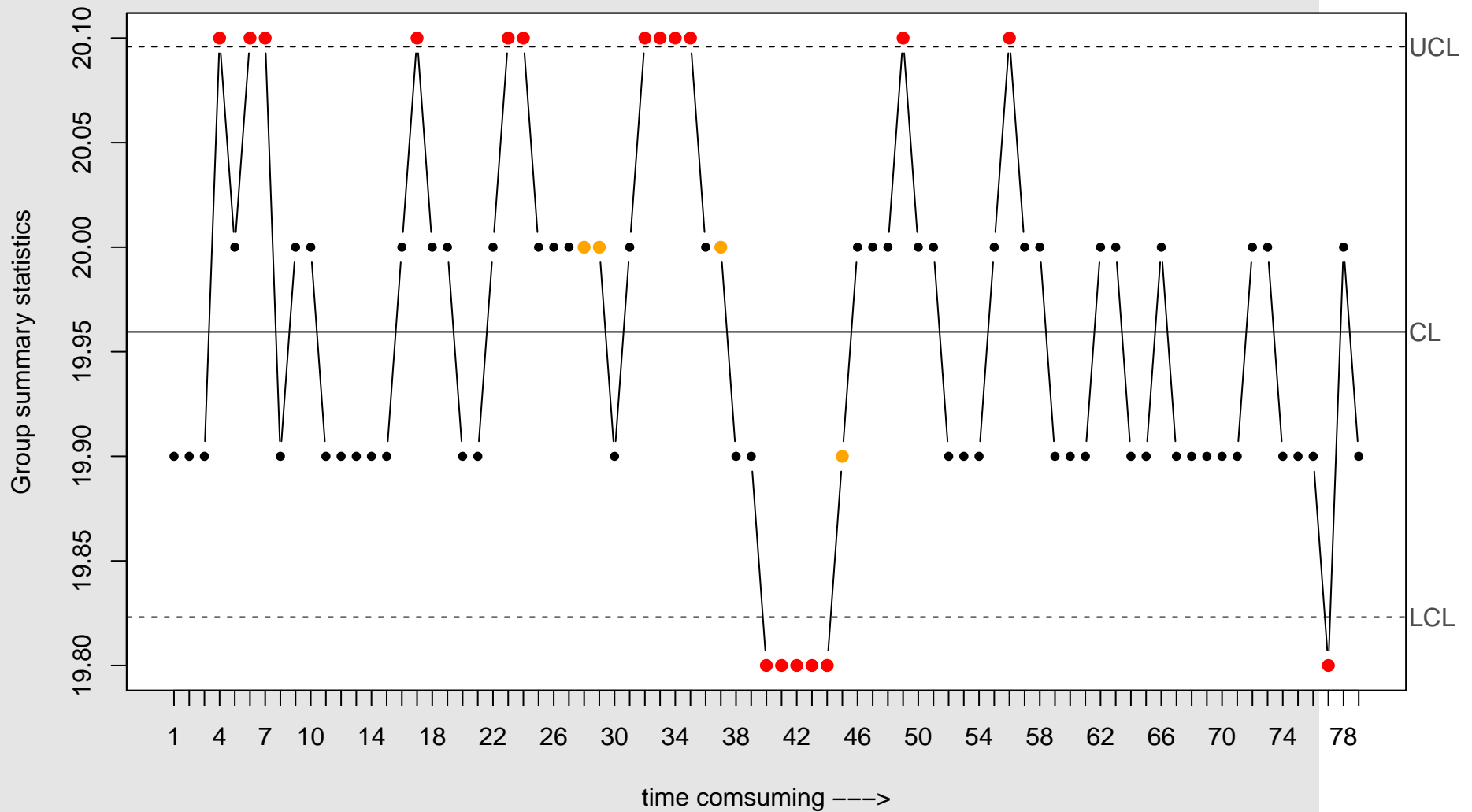
LCL = 19.88826
UCL = 20.12693

Number beyond limits = 0
Number violating runs = 14

293th column point of this product



294th column point of this product

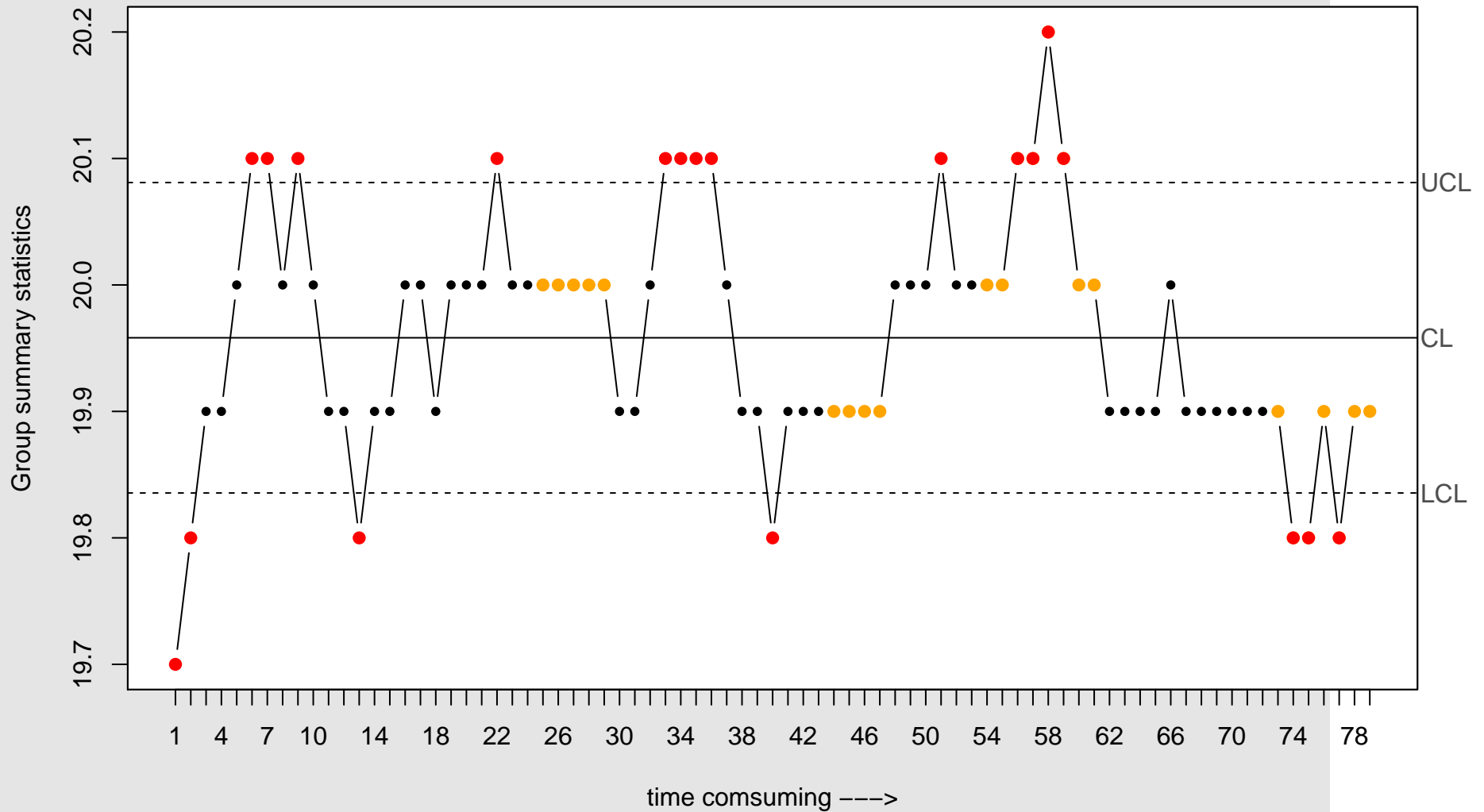


Number of groups = 79
 Center = 19.95949
 StdDev = 0.04546281

LCL = 19.82311
 UCL = 20.09588

Number beyond limits = 18
 Number violating runs = 5

295th column point of this product

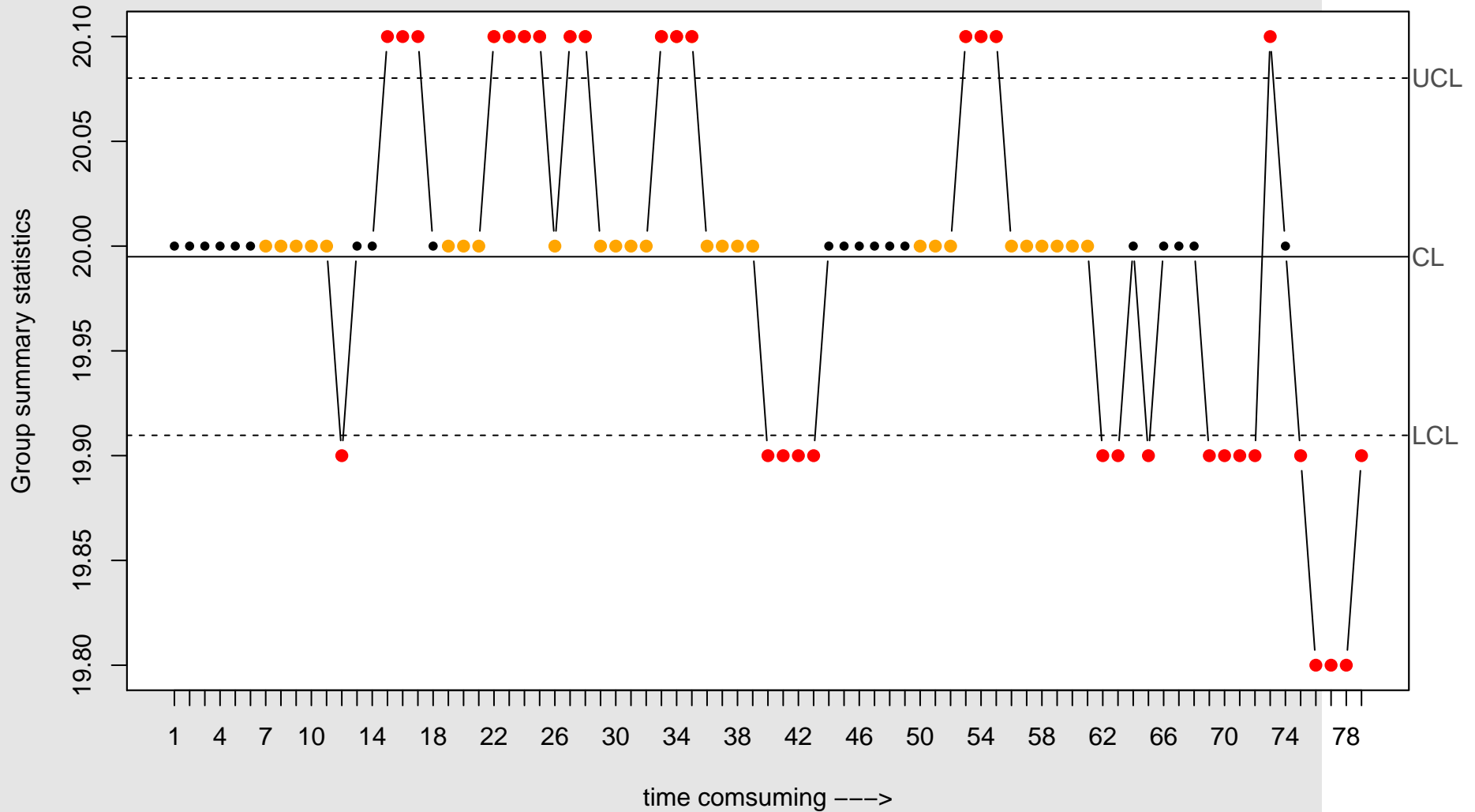


Number of groups = 79
 Center = 19.95823
 StdDev = 0.04091653

LCL = 19.83548
 UCL = 20.08098

Number beyond limits = 20
 Number violating runs = 24

296th column point of this product

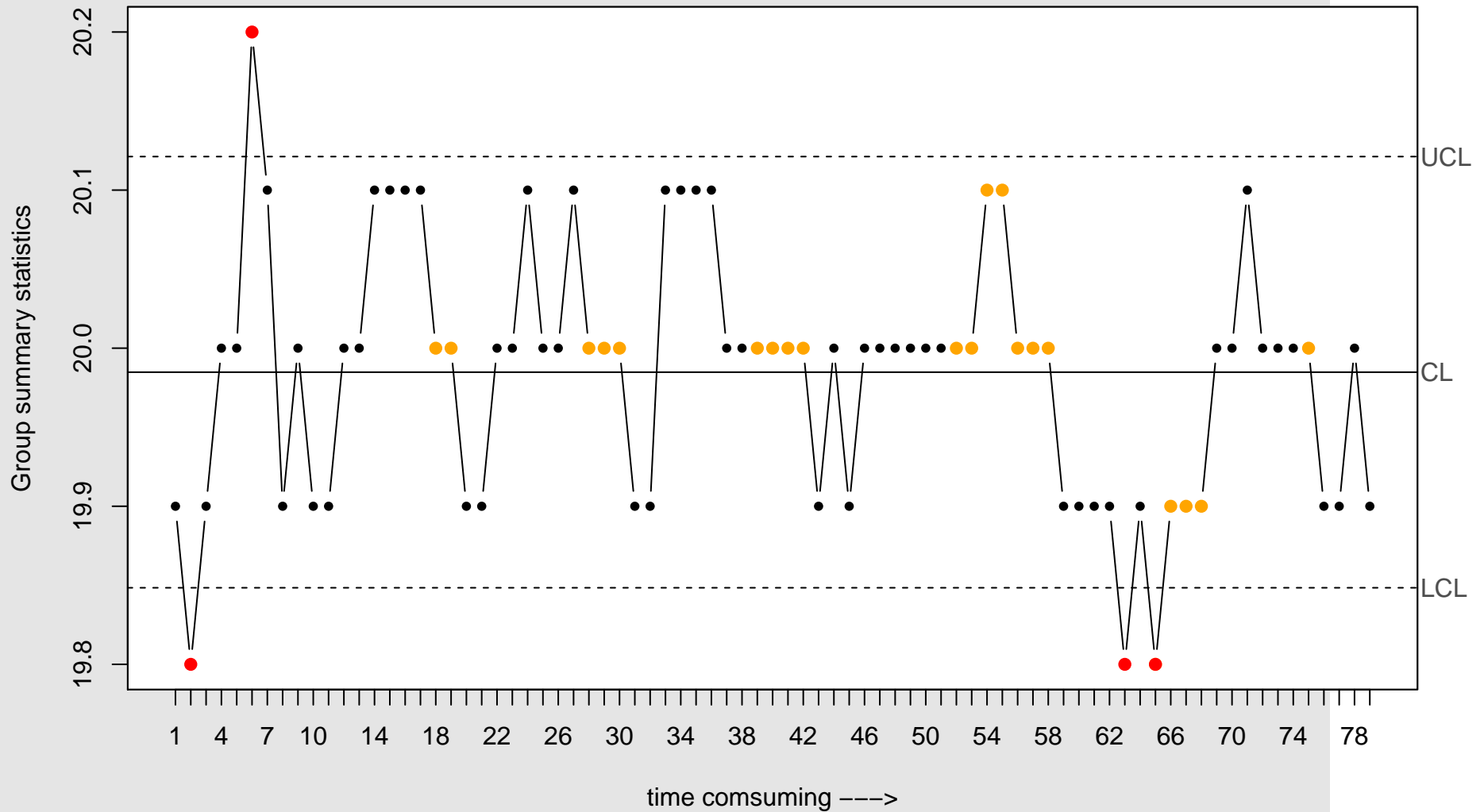


Number of groups = 79
 Center = 19.99494
 StdDev = 0.02841426

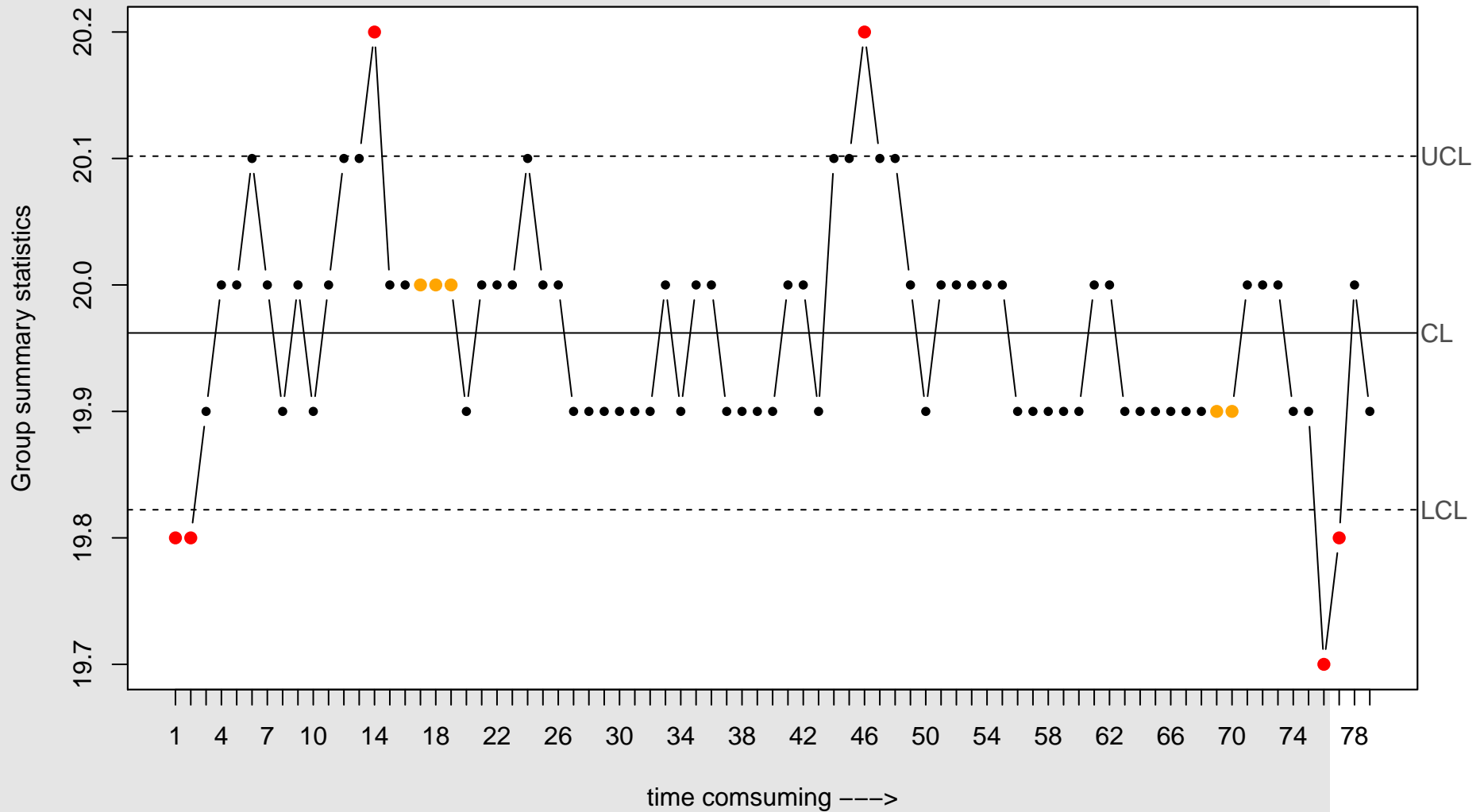
LCL = 19.90969
 UCL = 20.08018

Number beyond limits = 33
 Number violating runs = 38

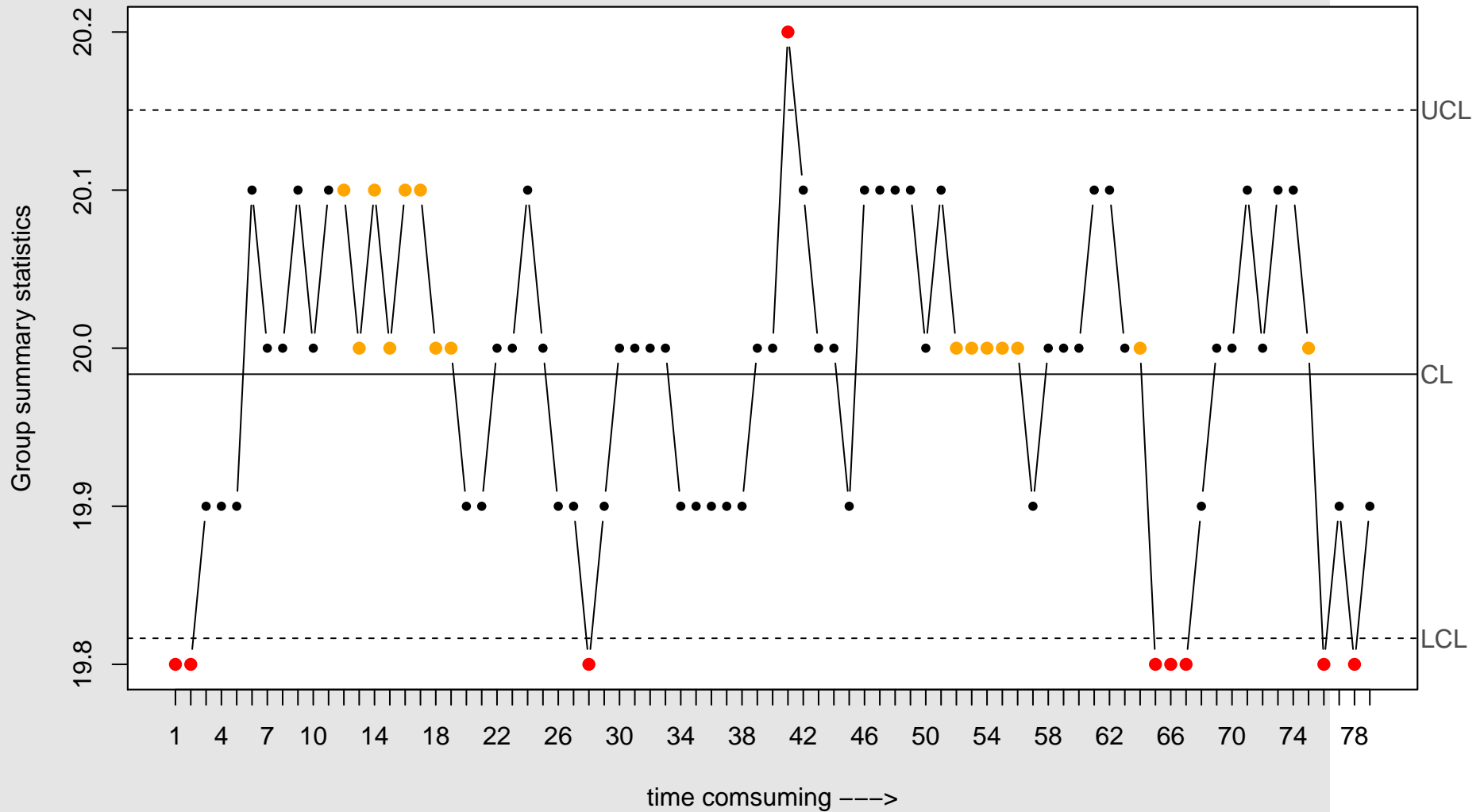
297th column point of this product



298th column point of this product



299th column point of this product



Number of groups = 79

Center = 19.98354

StdDev = 0.05569194

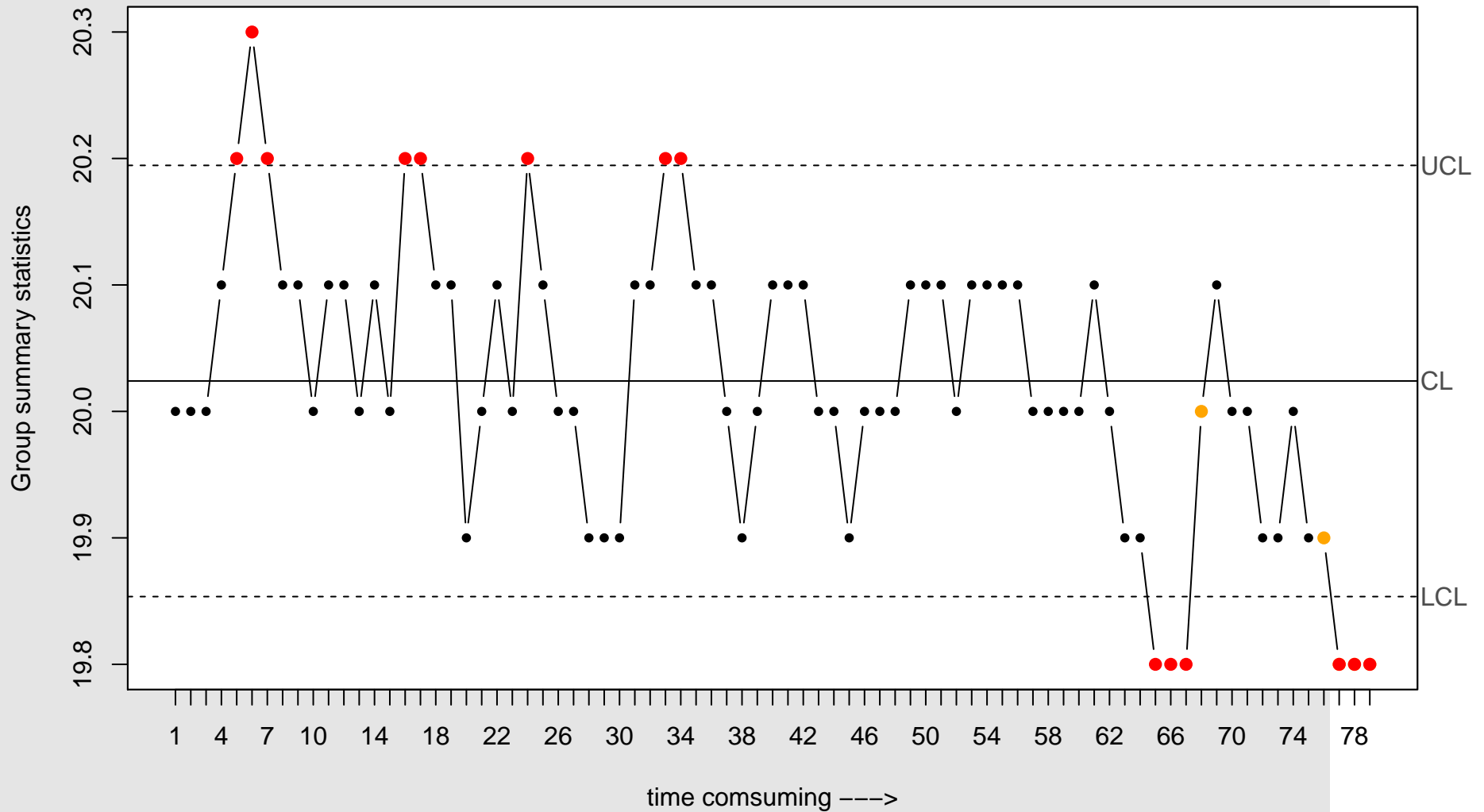
LCL = 19.81647

UCL = 20.15062

Number beyond limits = 9

Number violating runs = 15

300th column point of this product

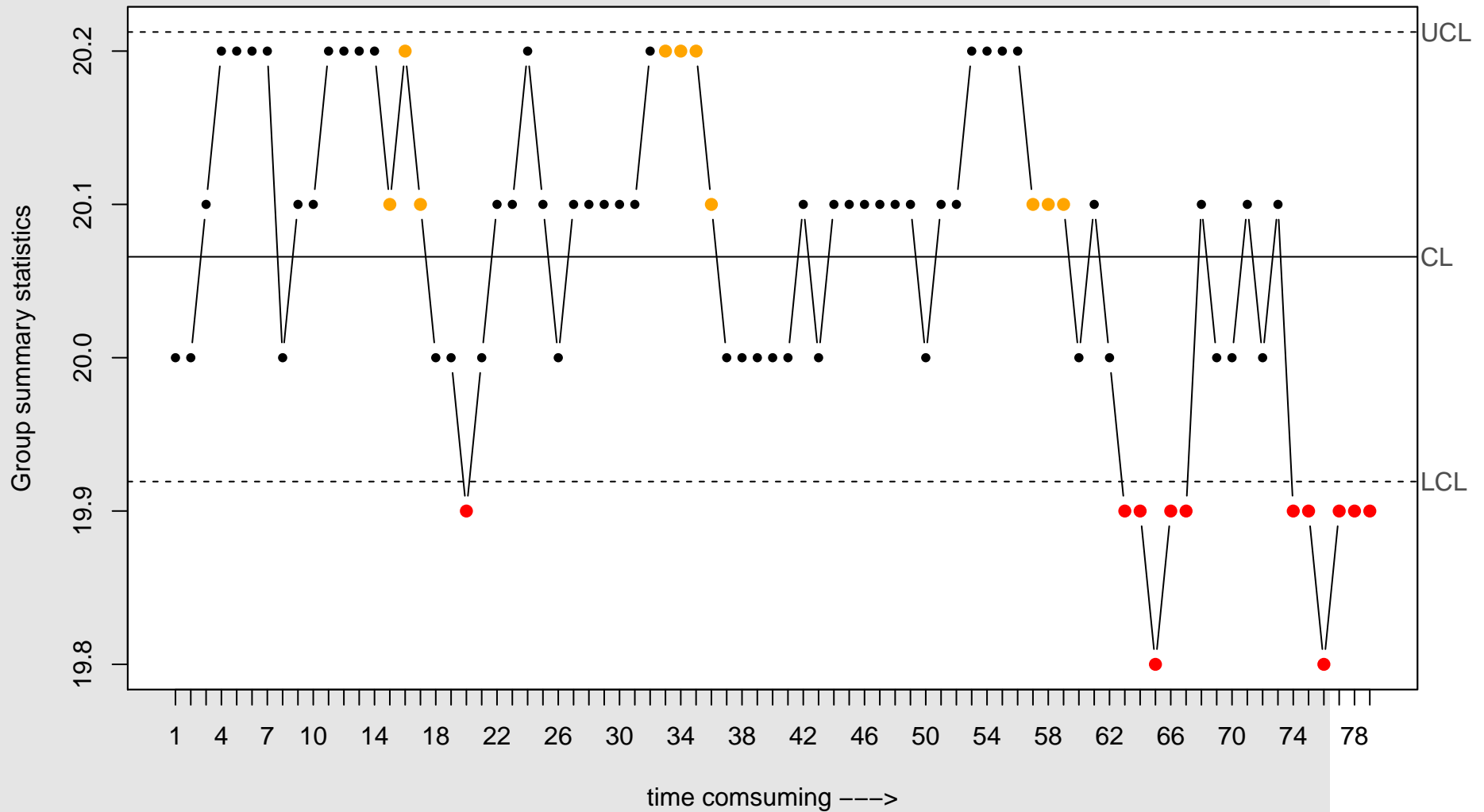


Number of groups = 79
 Center = 20.02405
 StdDev = 0.05682851

LCL = 19.85357
 UCL = 20.19454

Number beyond limits = 14
 Number violating runs = 5

301th column point of this product

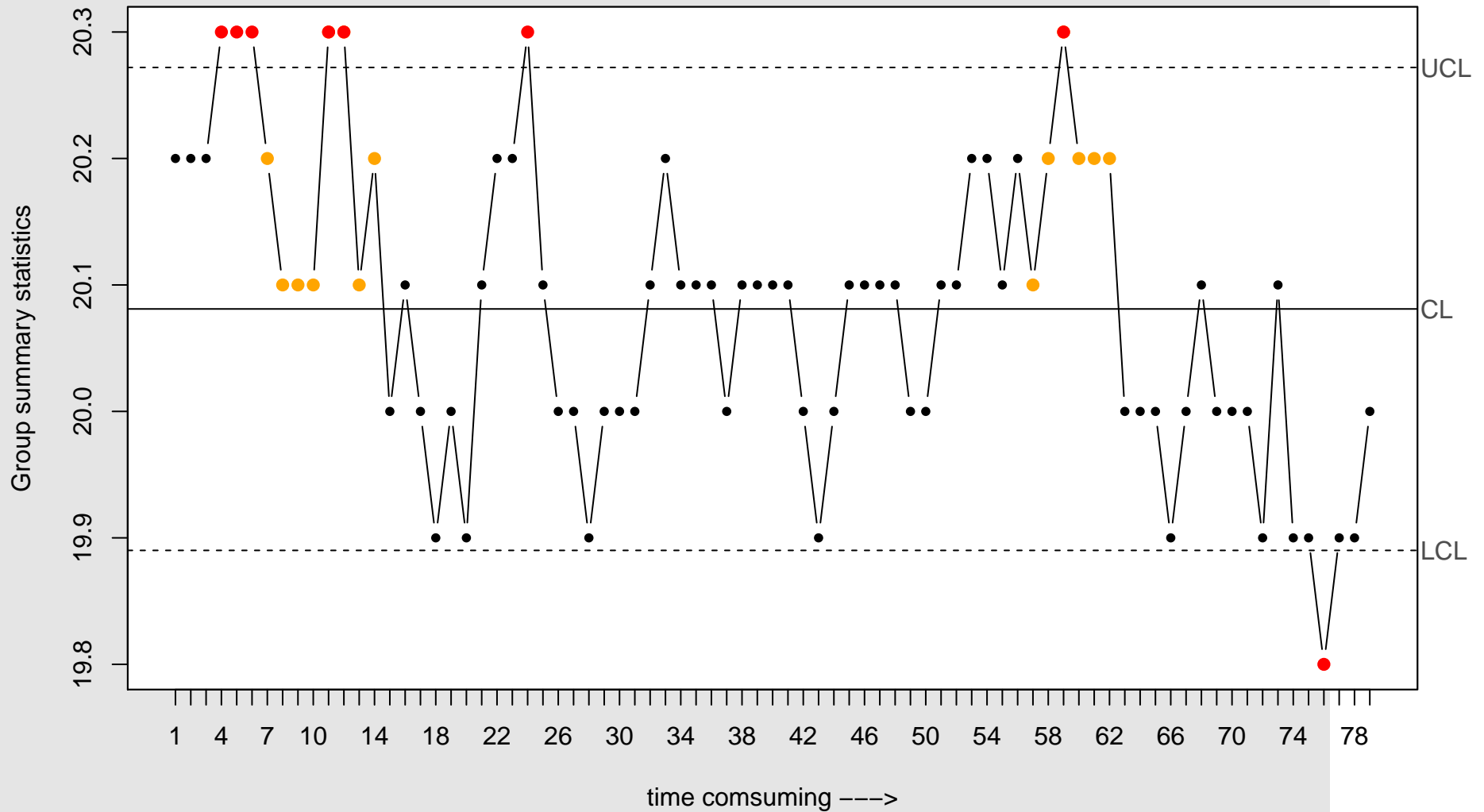


Number of groups = 79
 Center = 20.06582
 StdDev = 0.04887252

LCL = 19.91921
 UCL = 20.21244

Number beyond limits = 12
 Number violating runs = 10

302th column point of this product

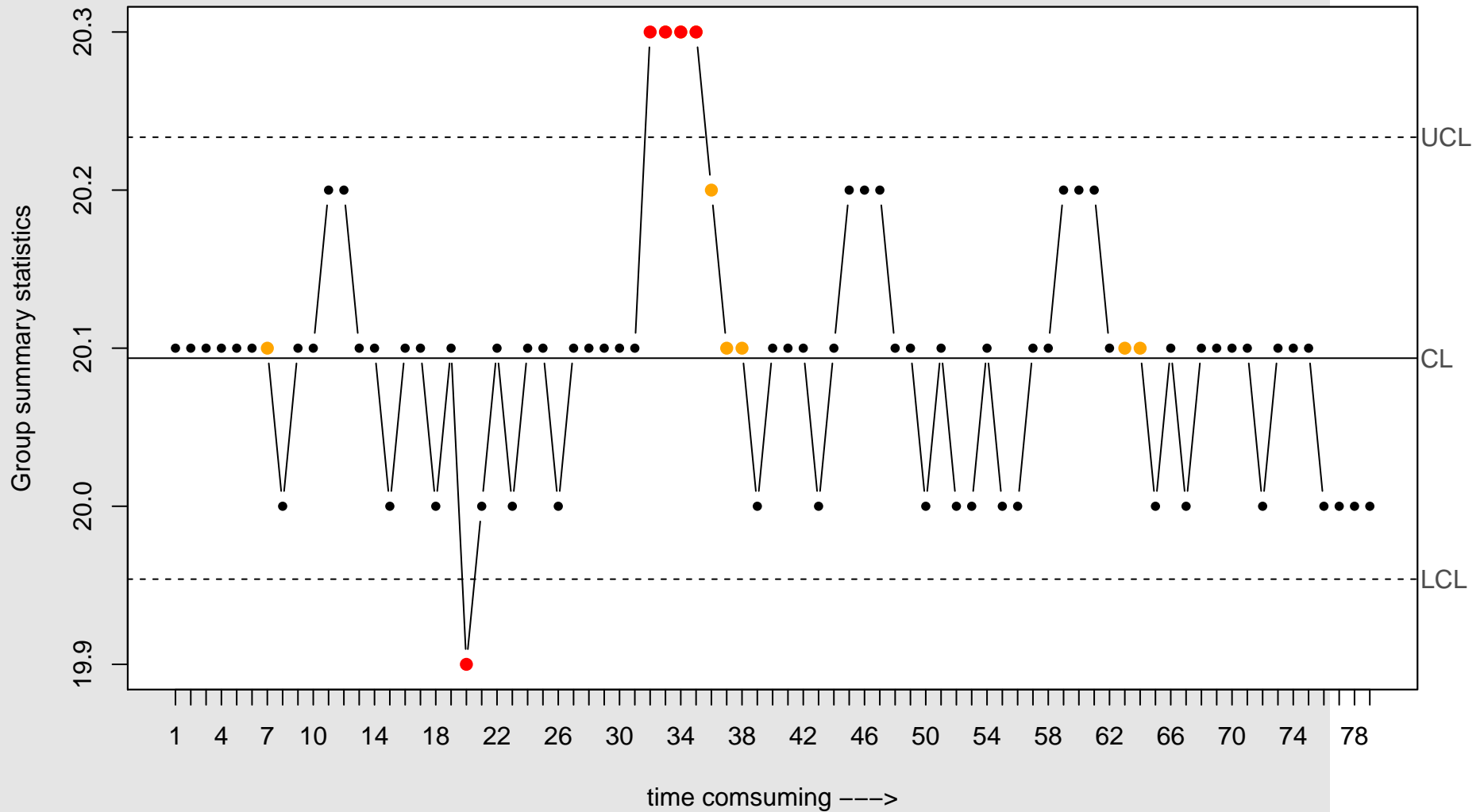


Number of groups = 79
 Center = 20.08101
 StdDev = 0.06364794

LCL = 19.89007
 UCL = 20.27196

Number beyond limits = 8
 Number violating runs = 14

303th column point of this product

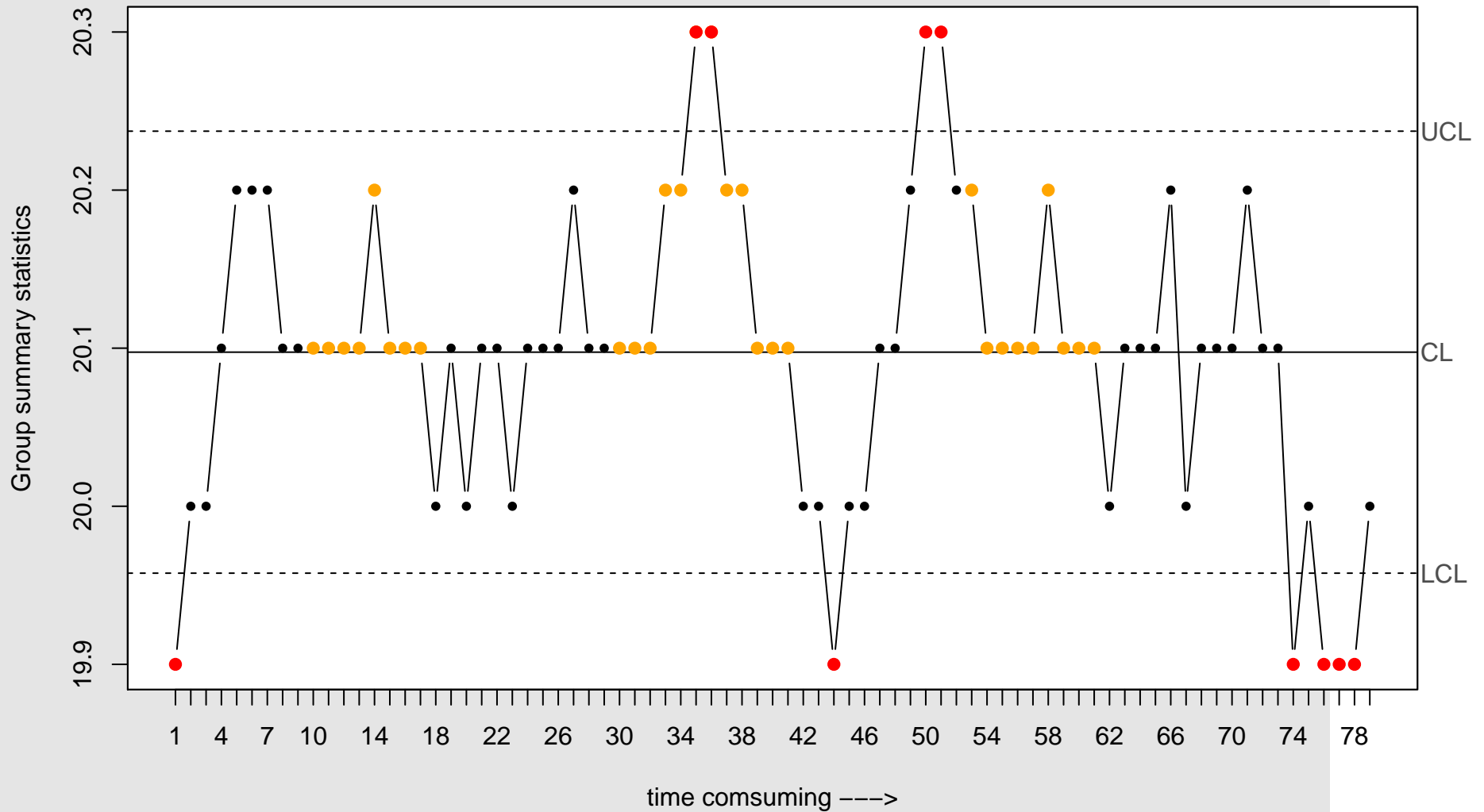


Number of groups = 79
 Center = 20.09367
 StdDev = 0.04659938

LCL = 19.95387
 UCL = 20.23347

Number beyond limits = 5
 Number violating runs = 9

304th column point of this product

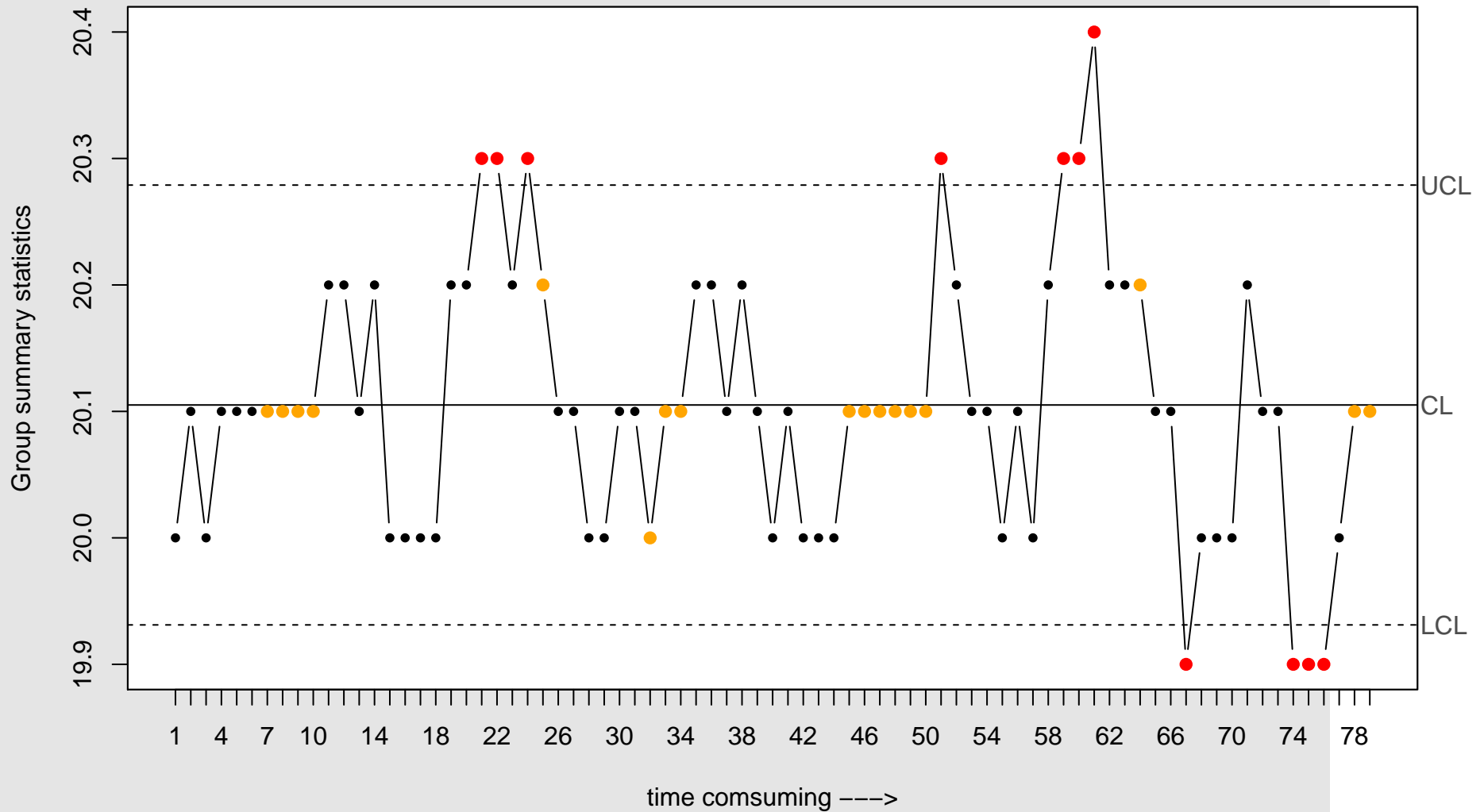


Number of groups = 79
 Center = 20.09747
 StdDev = 0.04659938

LCL = 19.95767
 UCL = 20.23727

Number beyond limits = 10
 Number violating runs = 29

305th column point of this product



Number of groups = 79

Center = 20.10506

StdDev = 0.05796508

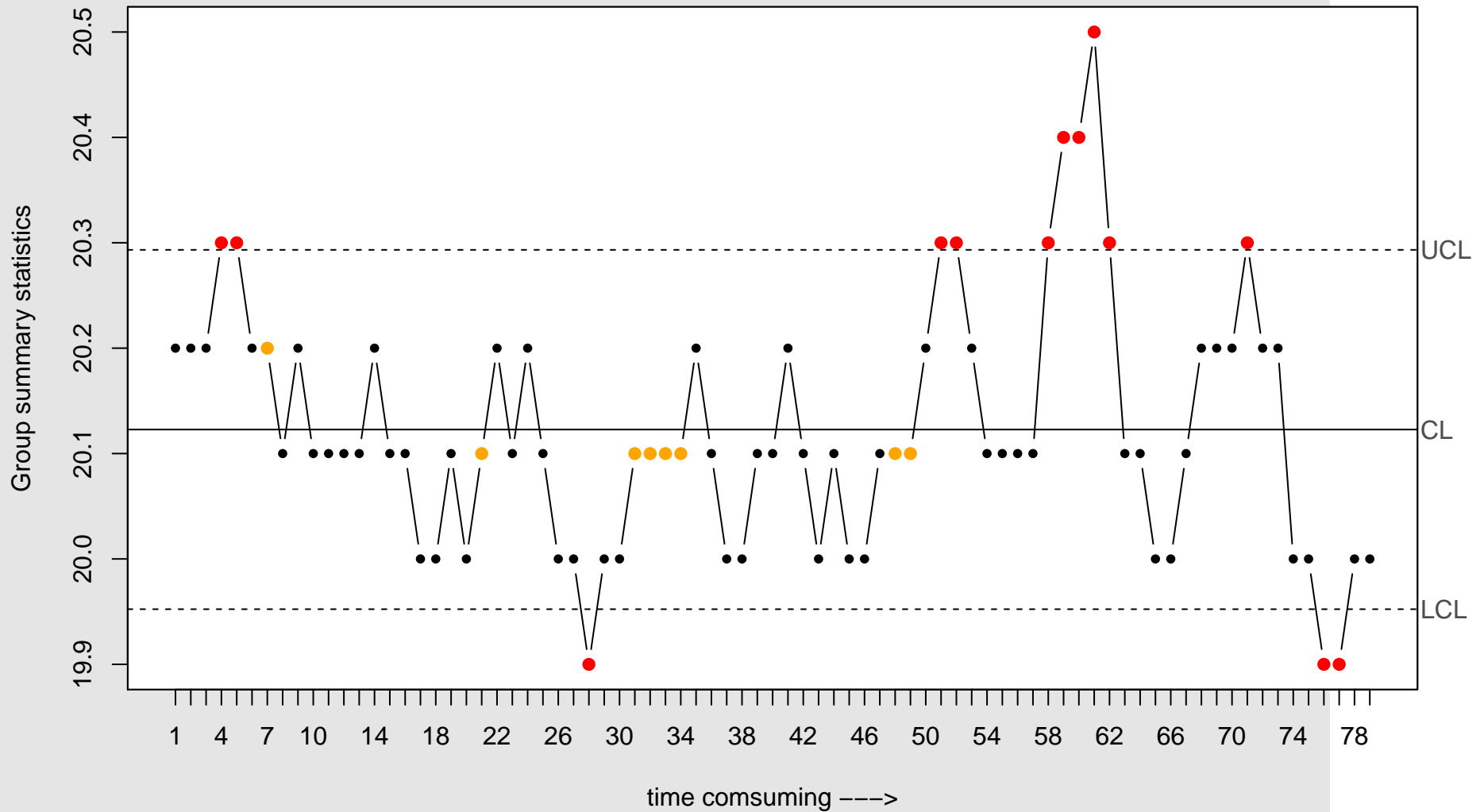
LCL = 19.93117

UCL = 20.27896

Number beyond limits = 11

Number violating runs = 17

306th column point of this product

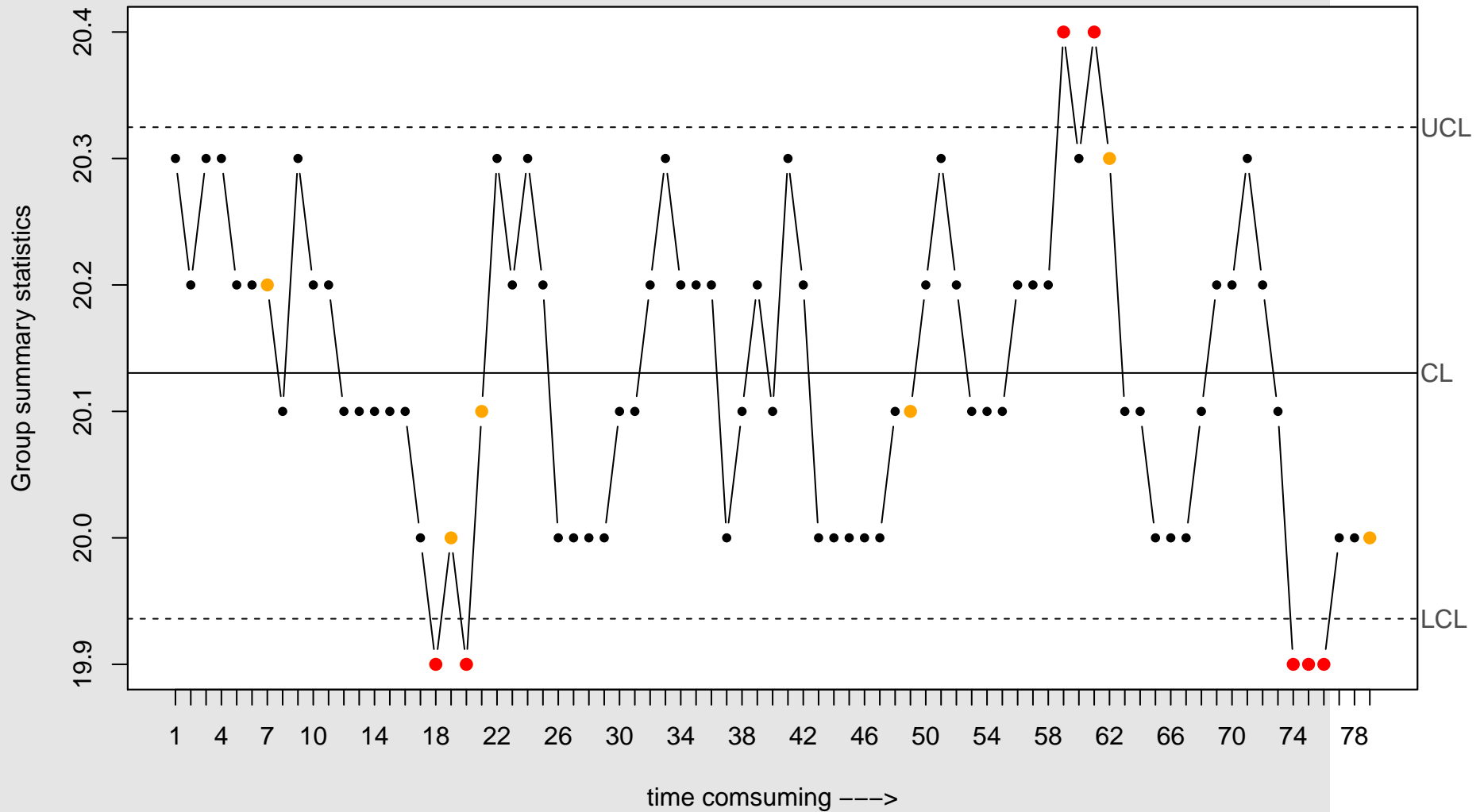


Number of groups = 79
 Center = 20.12278
 StdDev = 0.05682851

LCL = 19.9523
 UCL = 20.29327

Number beyond limits = 13
 Number violating runs = 8

307th column point of this product

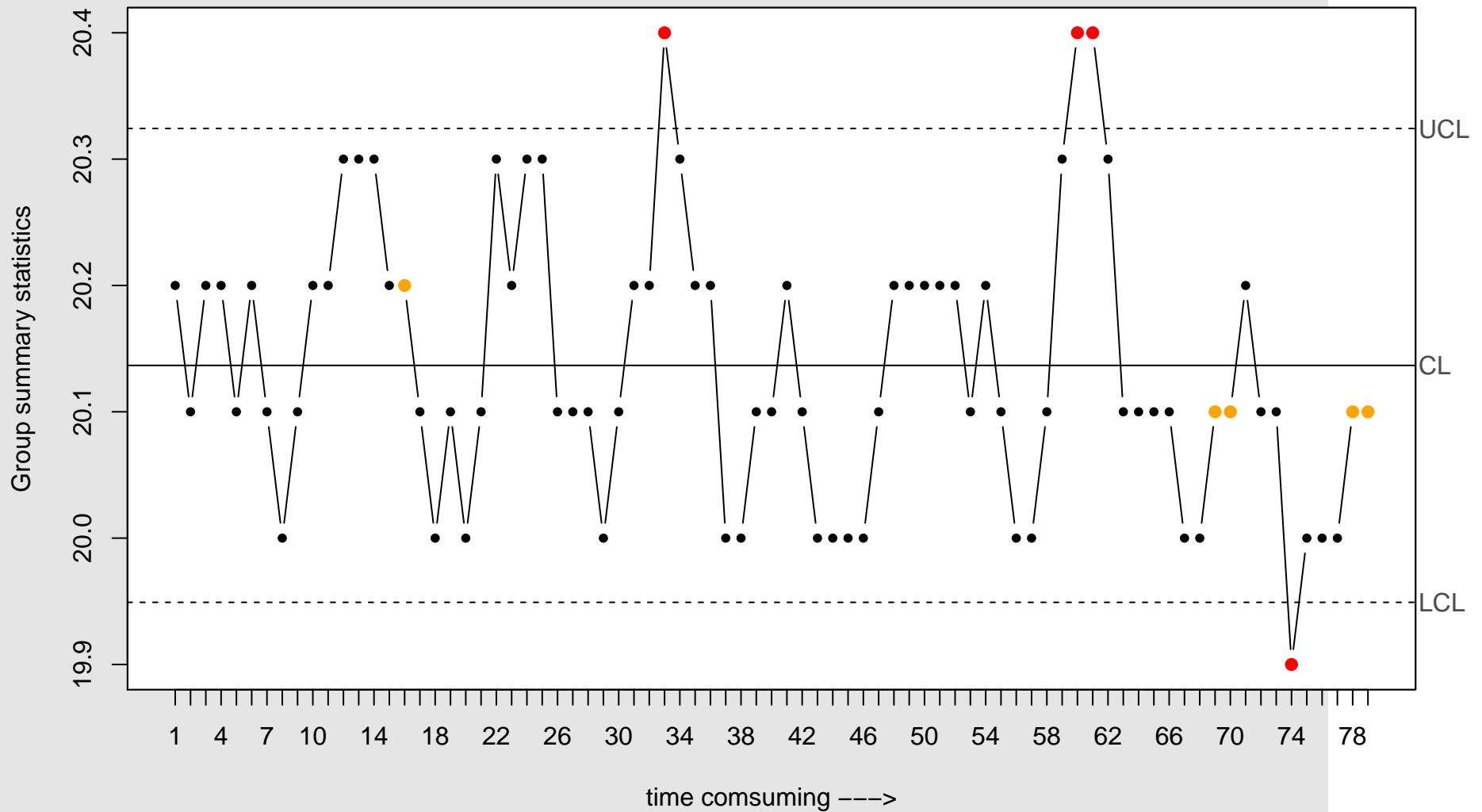


Number of groups = 79
 Center = 20.13038
 StdDev = 0.06478451

LCL = 19.93603
 UCL = 20.32473

Number beyond limits = 7
 Number violating runs = 8

308th column point of this product



Number of groups = 79

Center = 20.13671

StdDev = 0.06251137

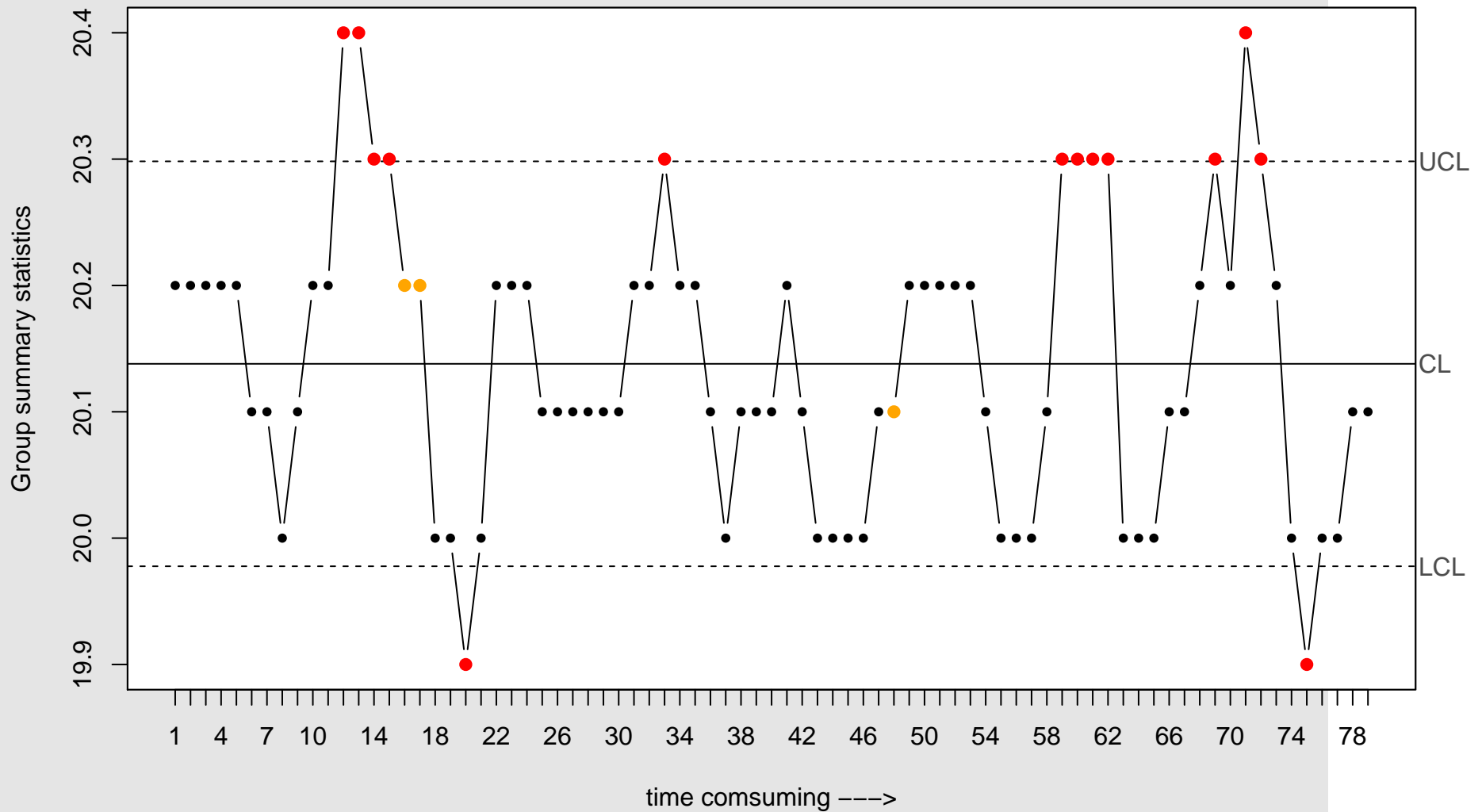
LCL = 19.94917

UCL = 20.32424

Number beyond limits = 4

Number violating runs = 5

309th column point of this product



Number of groups = 79

Center = 20.13797

StdDev = 0.0534188

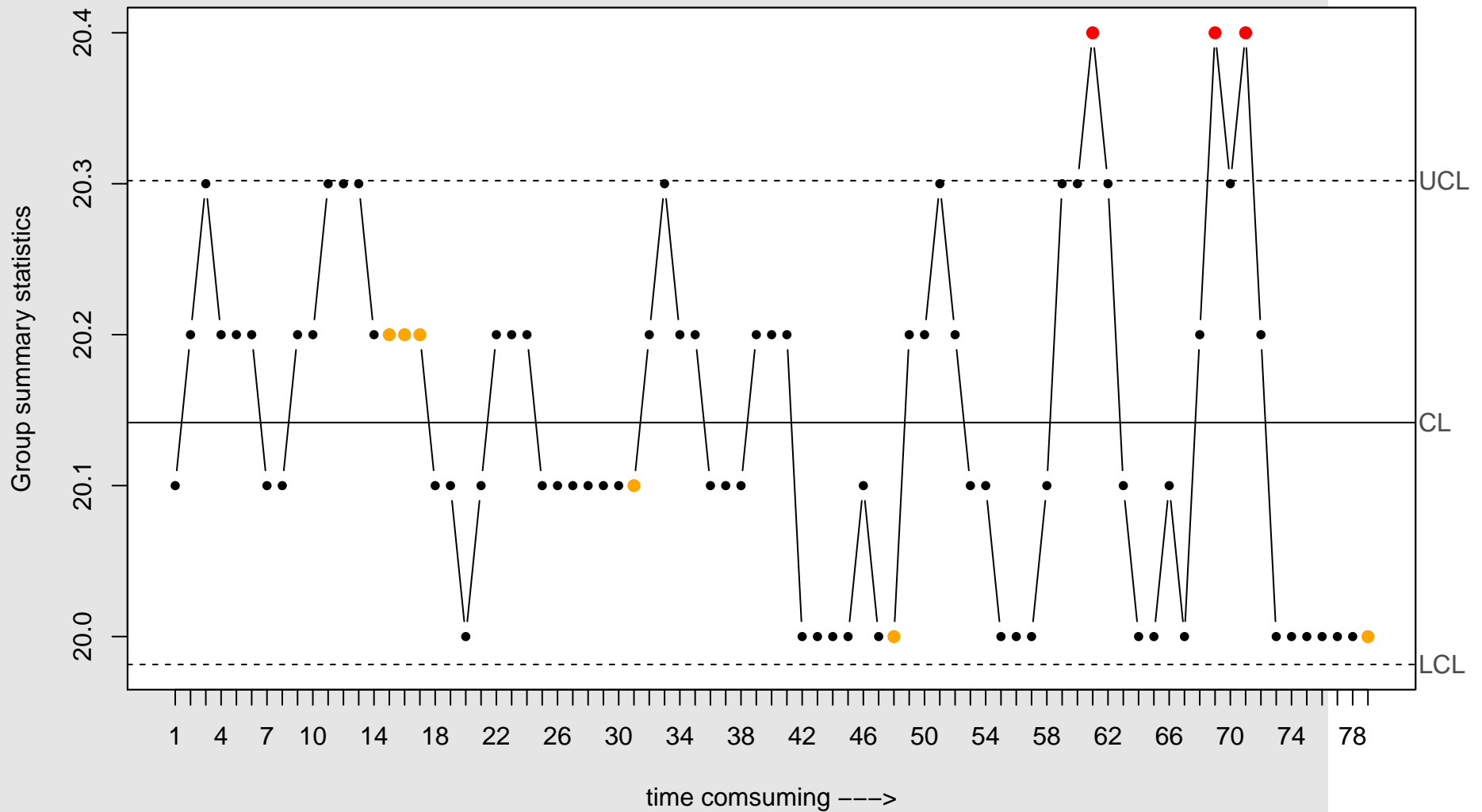
LCL = 19.97772

UCL = 20.29823

Number beyond limits = 14

Number violating runs = 3

310th column point of this product

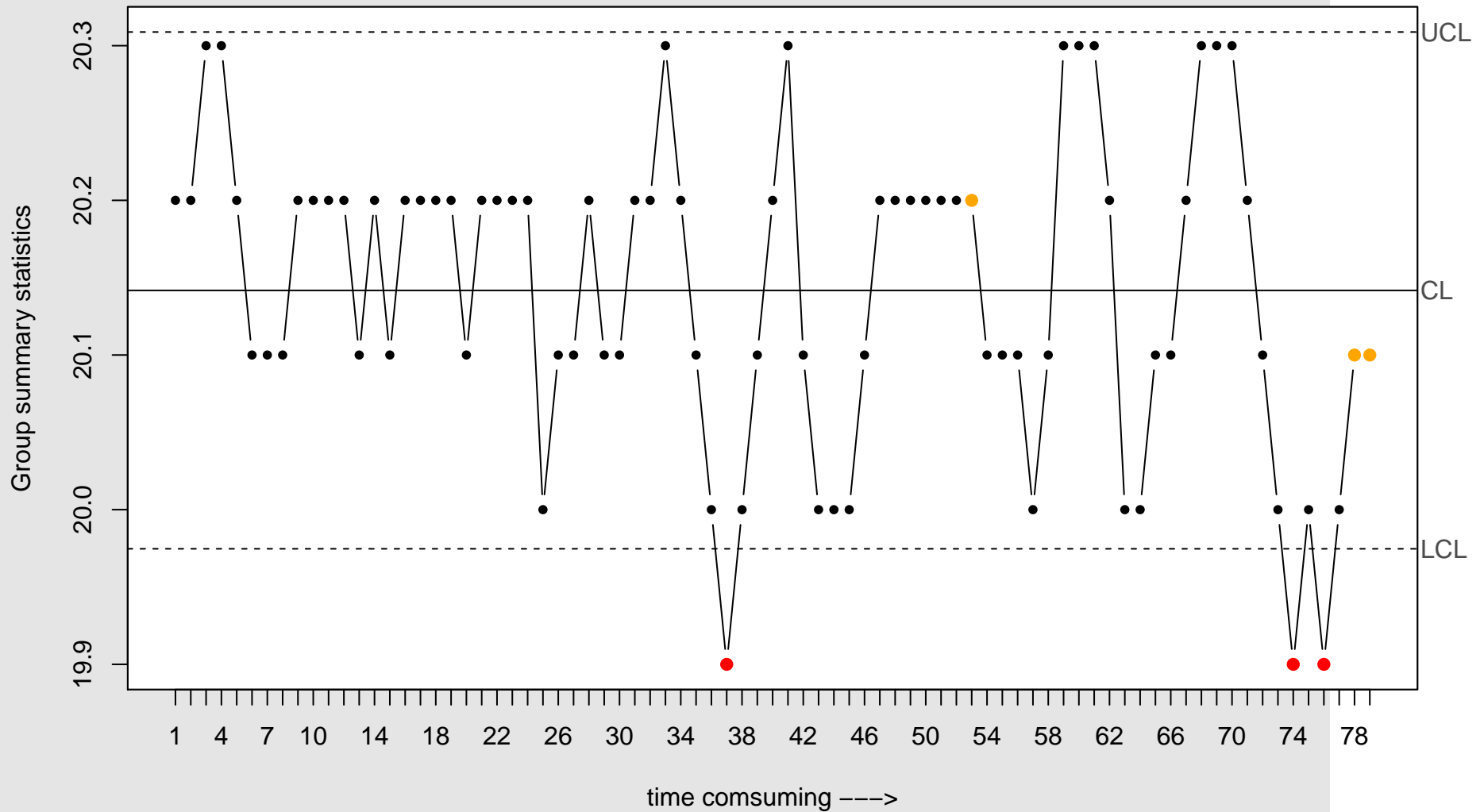


Number of groups = 79
 Center = 20.14177
 StdDev = 0.0534188

LCL = 19.98152
 UCL = 20.30203

Number beyond limits = 3
 Number violating runs = 6

311th column point of this product

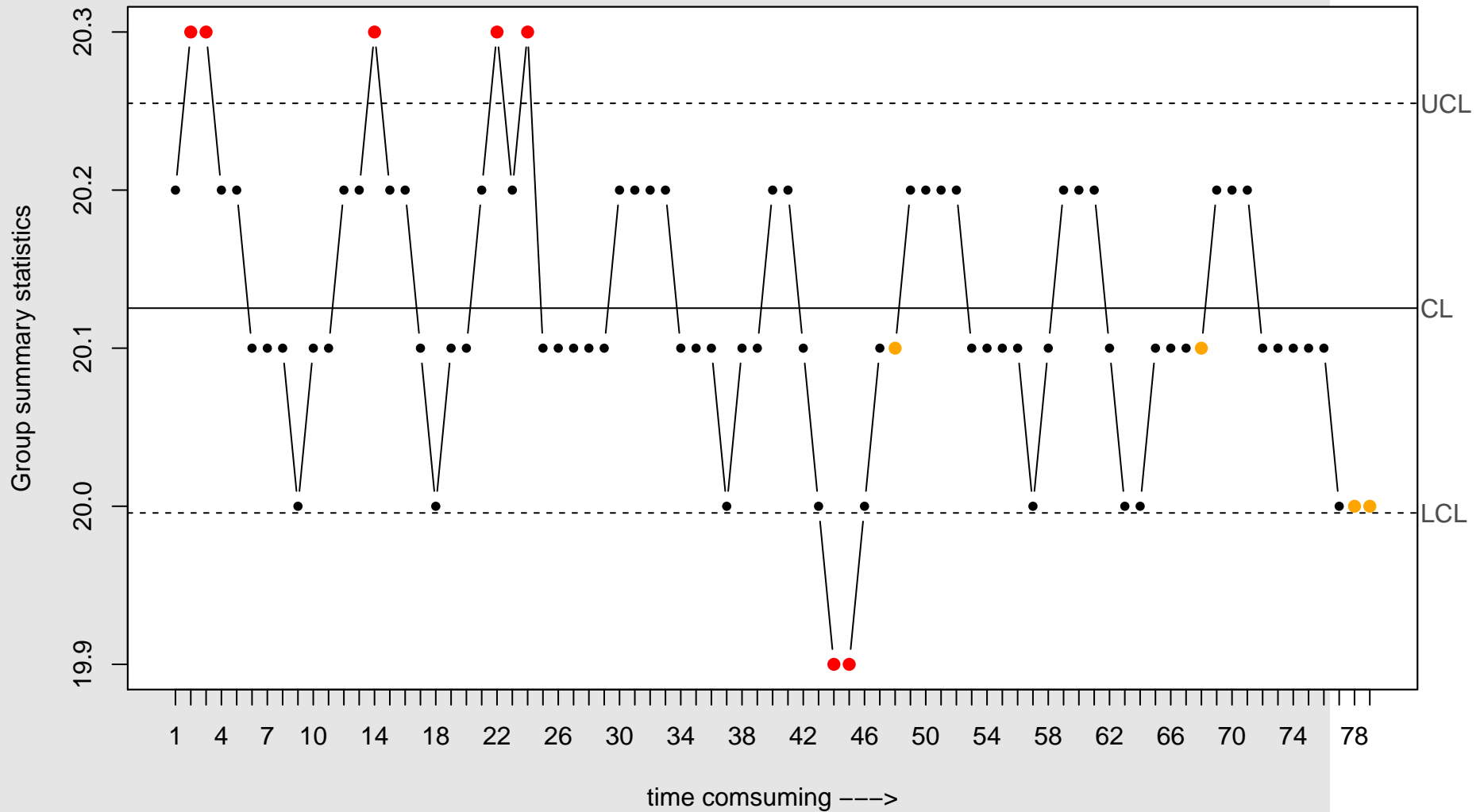


Number of groups = 79
 Center = 20.14177
 StdDev = 0.05569194

LCL = 19.9747
 UCL = 20.30885

Number beyond limits = 3
 Number violating runs = 3

312th column point of this product

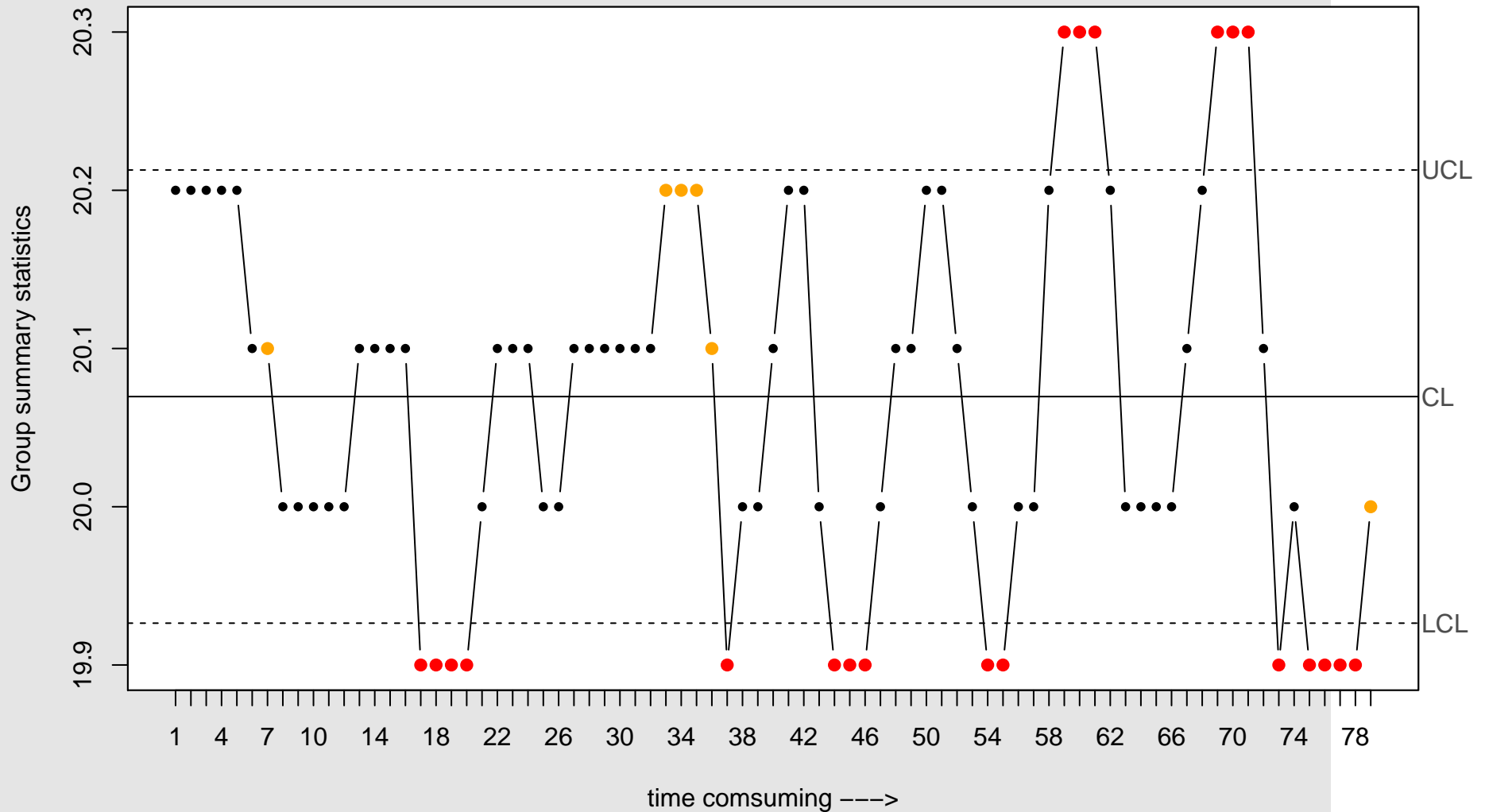


Number of groups = 79
 Center = 20.12532
 StdDev = 0.04318967

LCL = 19.99575
 UCL = 20.25489

Number beyond limits = 7
 Number violating runs = 4

313th column point of this product

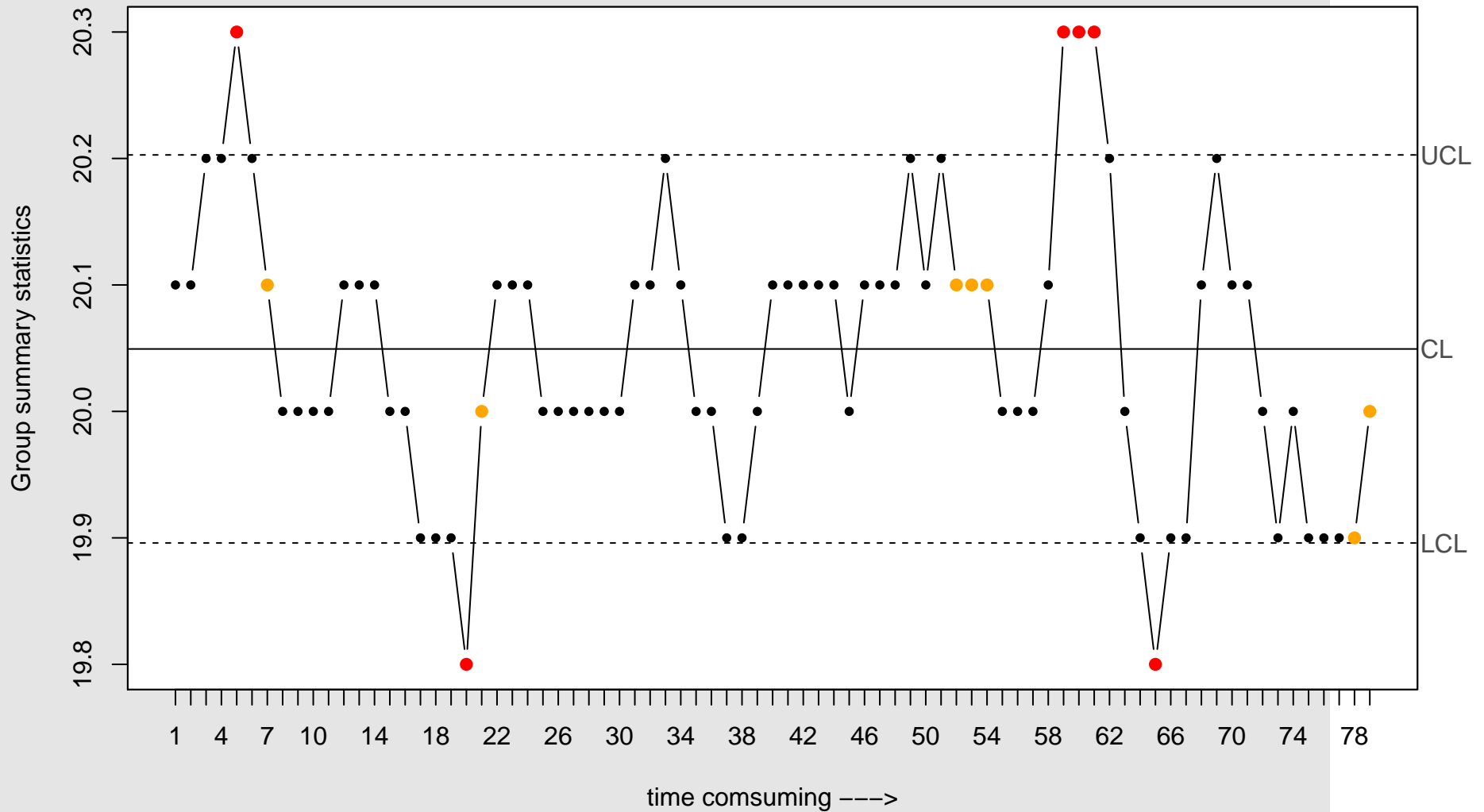


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04773595

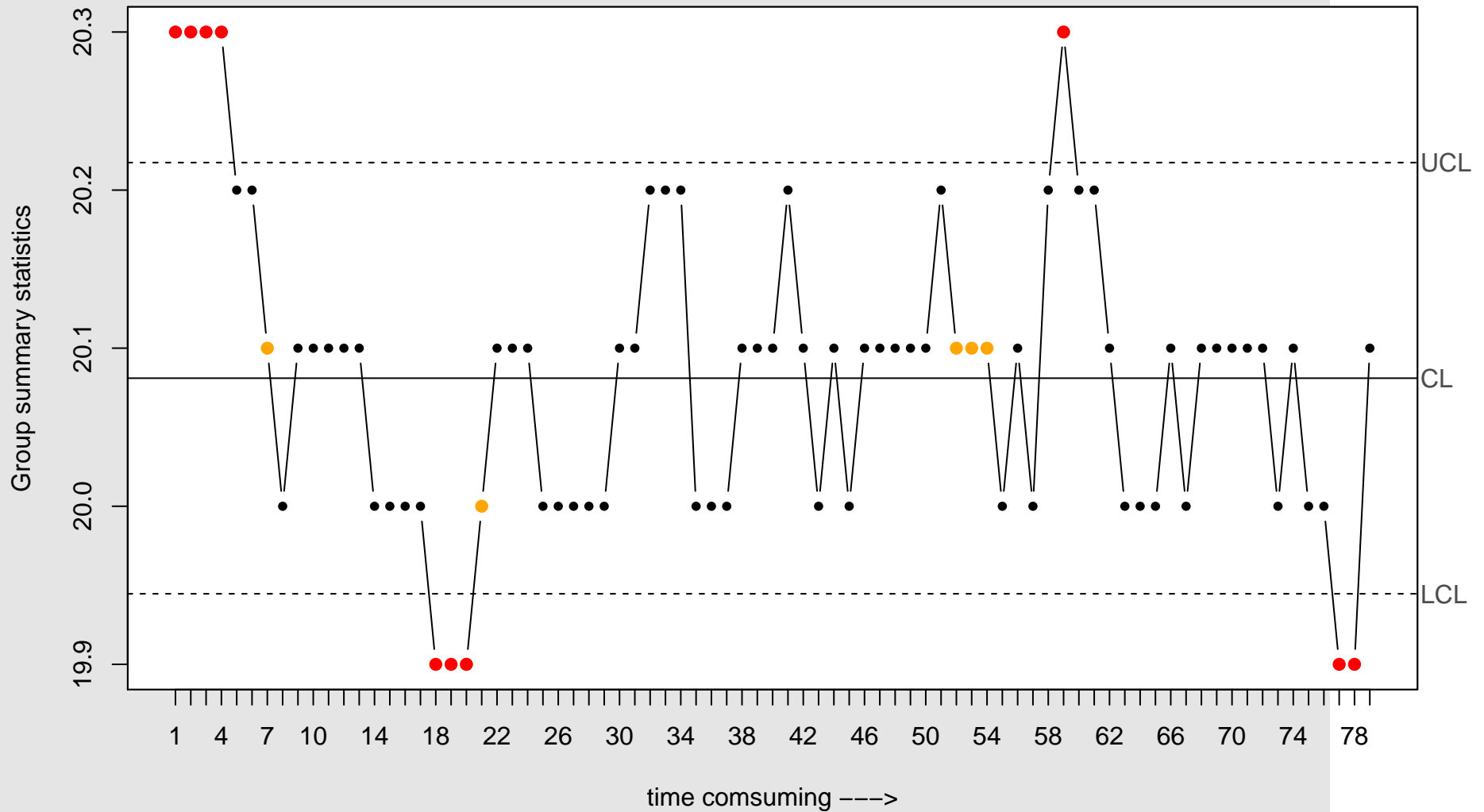
LCL = 19.92641
 UCL = 20.21283

Number beyond limits = 21
 Number violating runs = 6

314th column point of this product



315th column point of this product



Number of groups = 79

Center = 20.08101

StdDev = 0.04546281

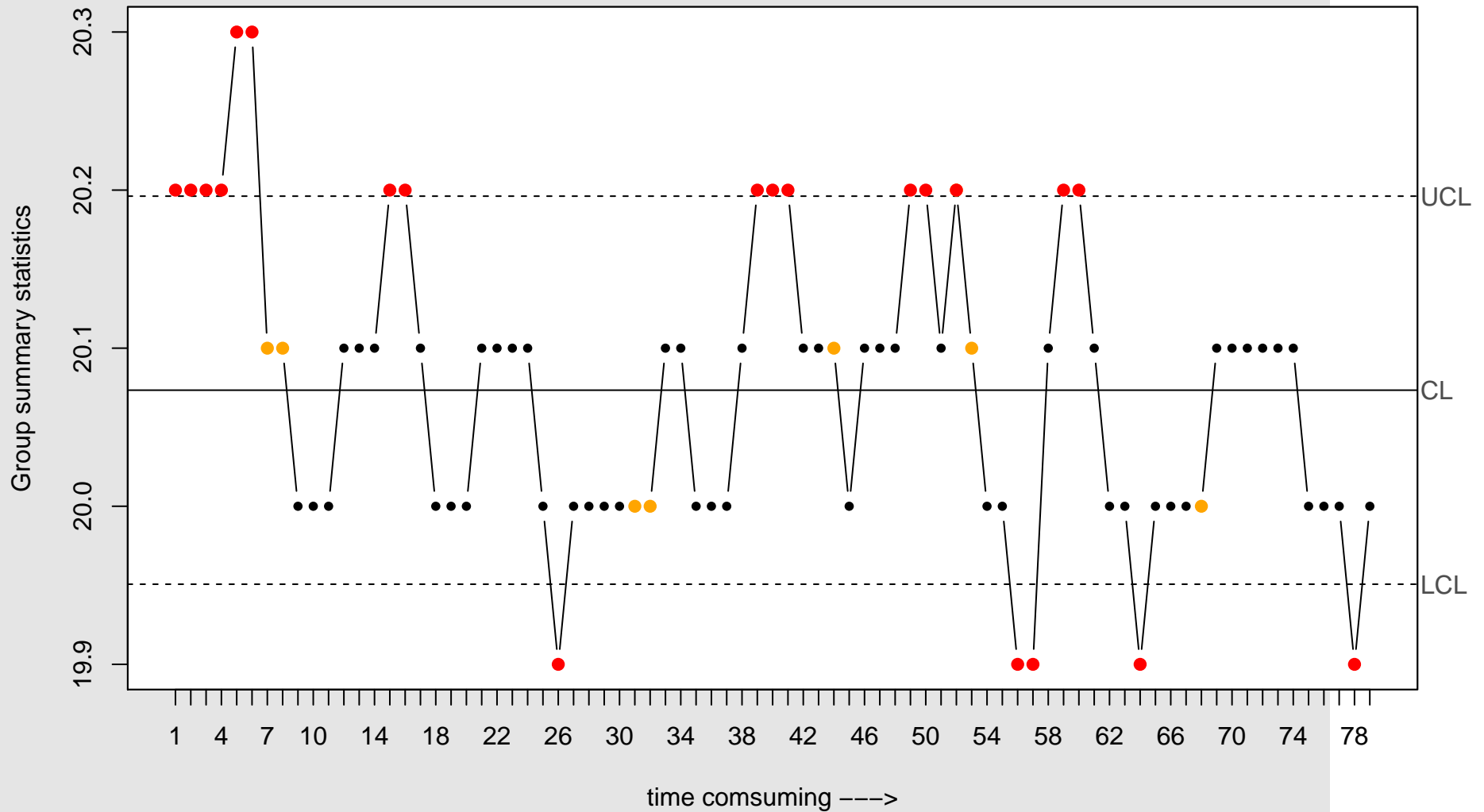
LCL = 19.94462

UCL = 20.2174

Number beyond limits = 10

Number violating runs = 6

316th column point of this product

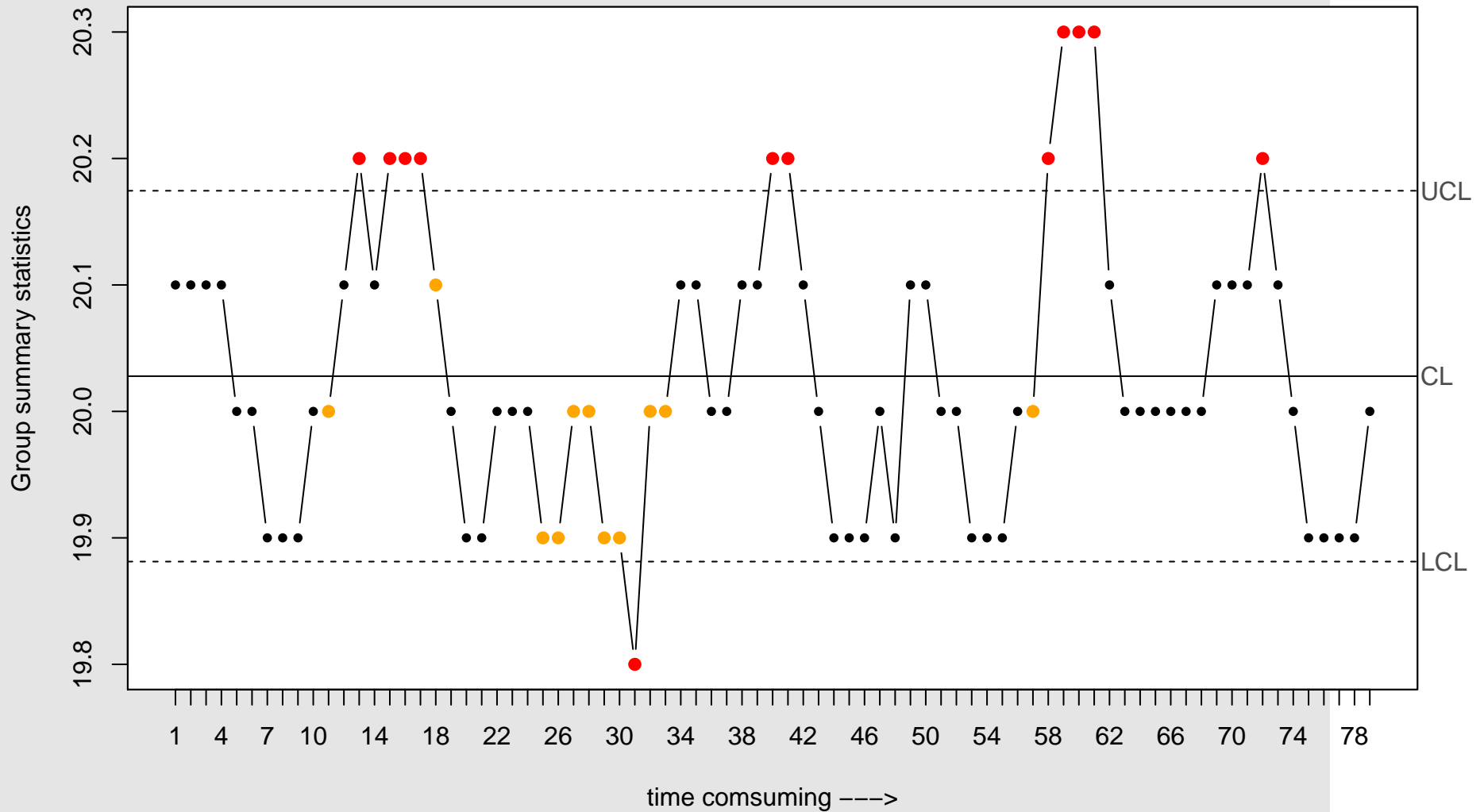


Number of groups = 79
 Center = 20.07342
 StdDev = 0.04091653

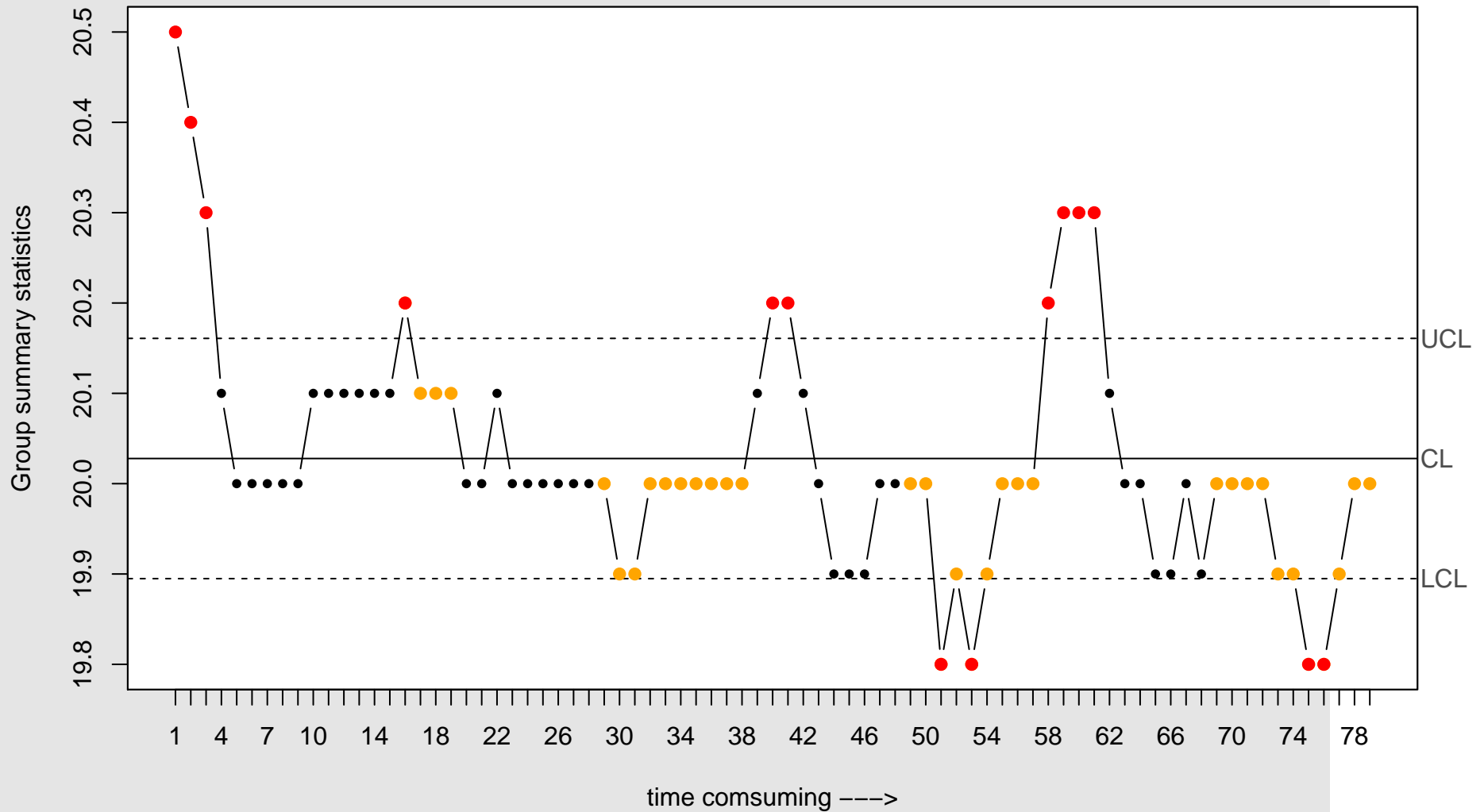
LCL = 19.95067
 UCL = 20.19617

Number beyond limits = 21
 Number violating runs = 8

317th column point of this product



318th column point of this product

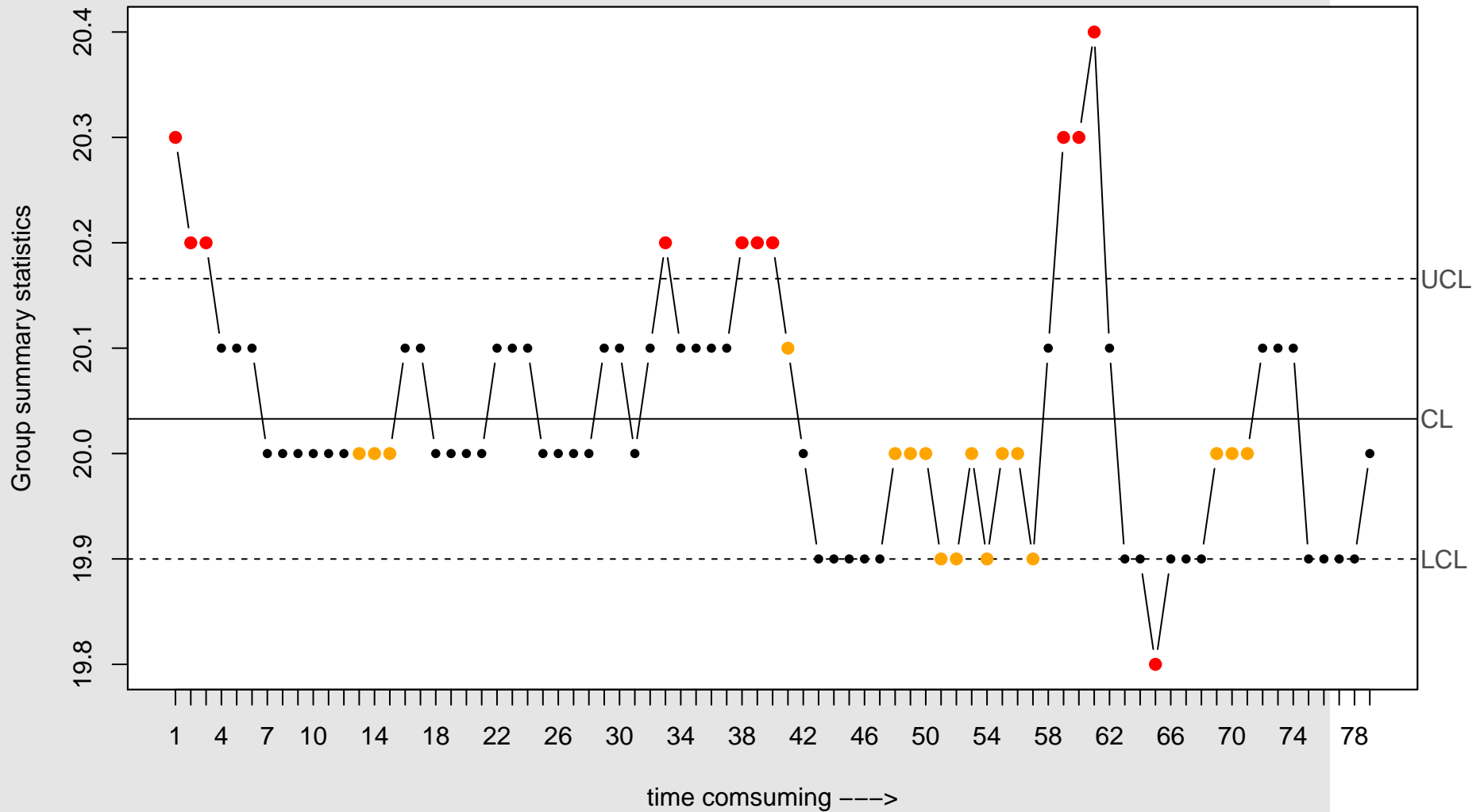


Number of groups = 79
 Center = 20.02785
 StdDev = 0.04432624

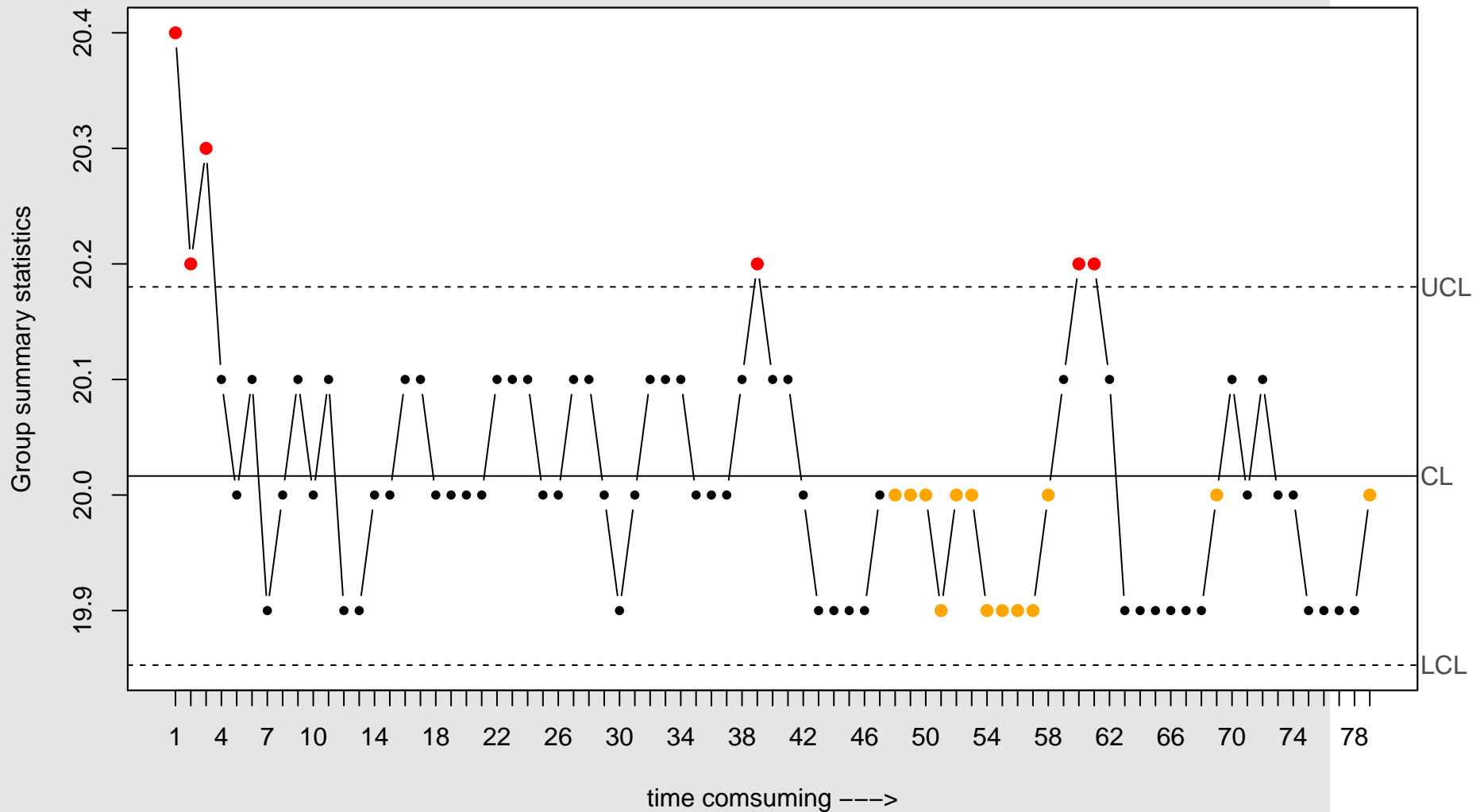
LCL = 19.89487
 UCL = 20.16083

Number beyond limits = 14
 Number violating runs = 34

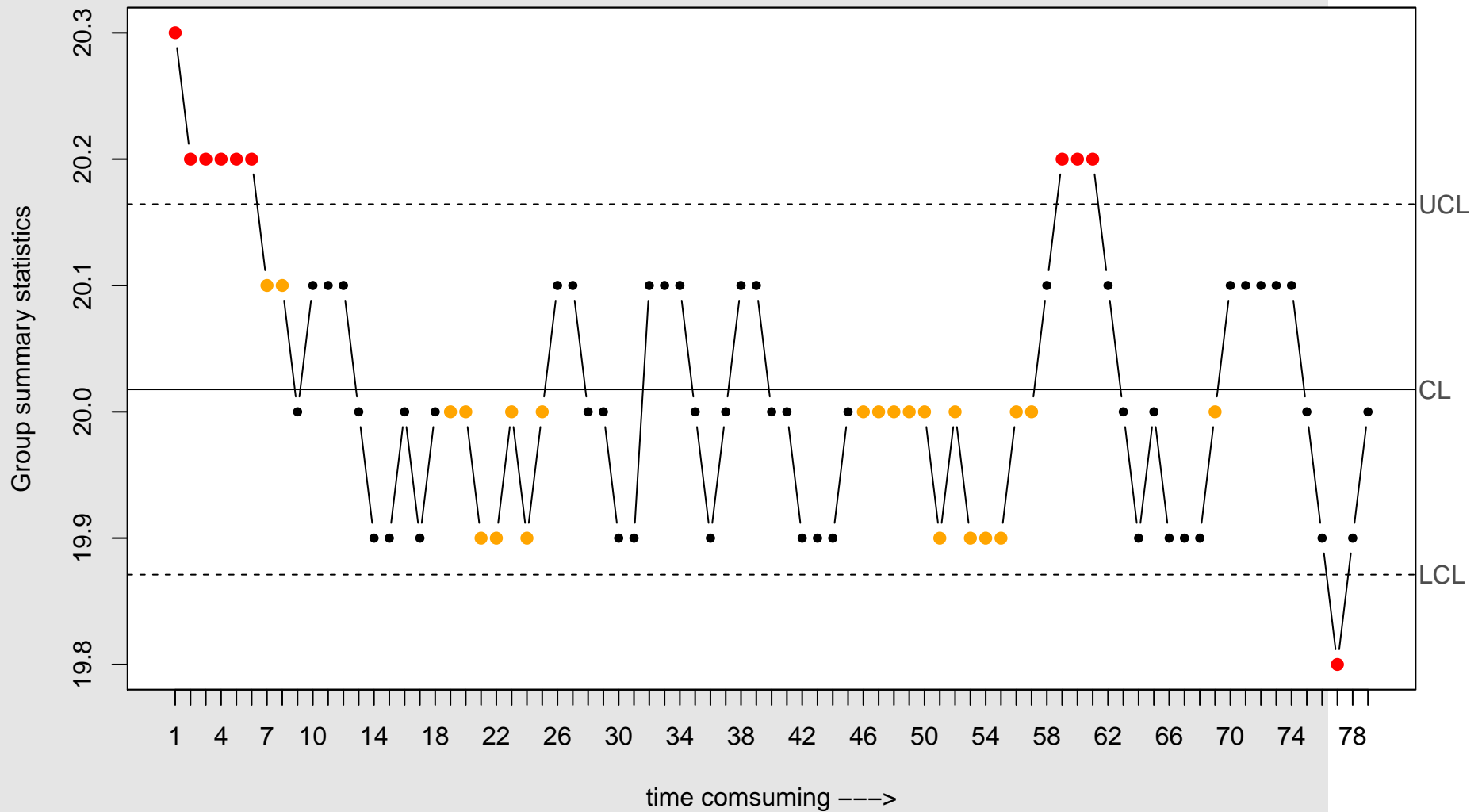
319th column point of this product



320th column point of this product



321th column point of this product



Number of groups = 79

Center = 20.01772

StdDev = 0.04887252

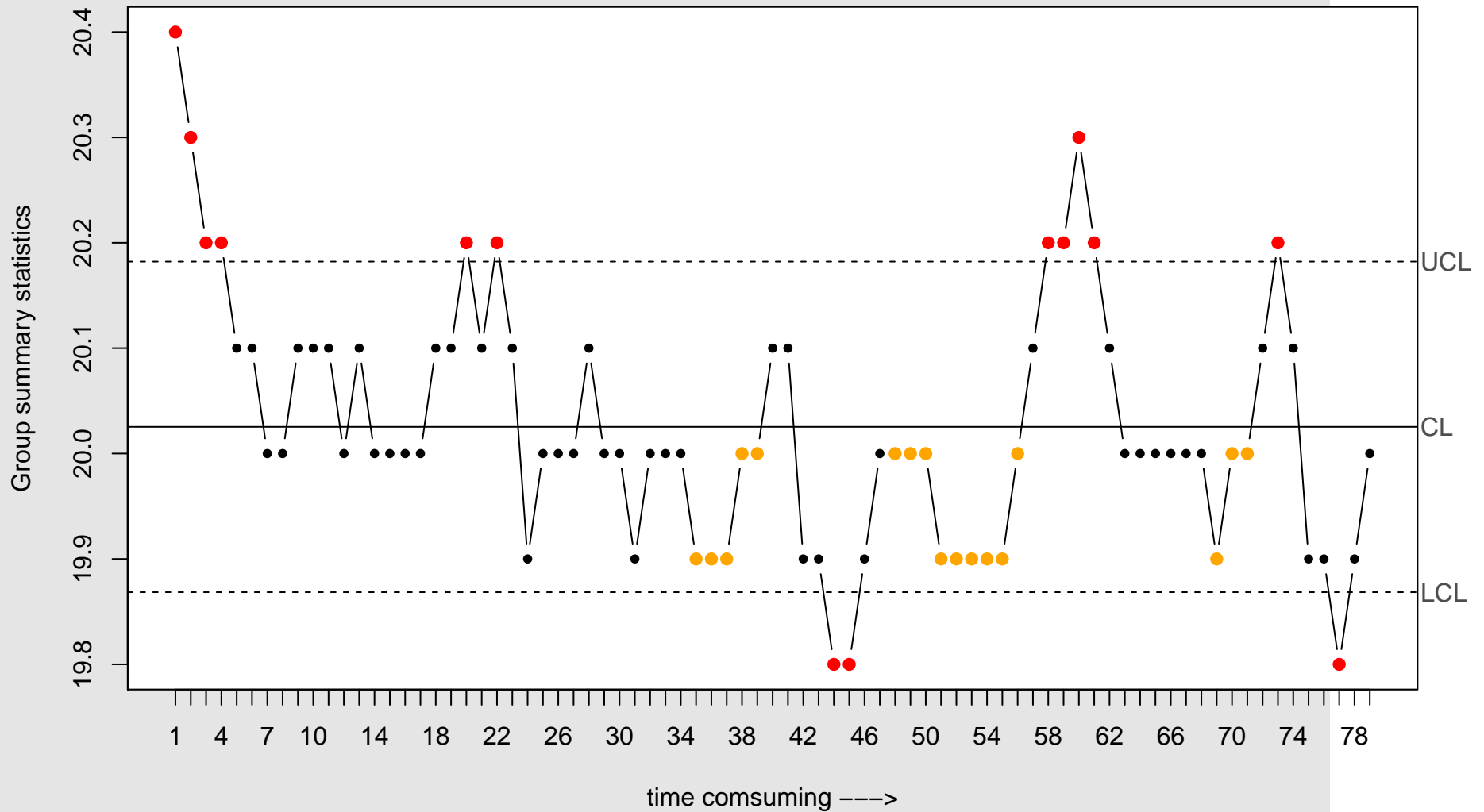
LCL = 19.8711

UCL = 20.16434

Number beyond limits = 10

Number violating runs = 22

322th column point of this product



Number of groups = 79
 Center = 20.02532
 StdDev = 0.05228223

LCL = 19.86847
 UCL = 20.18216

Number beyond limits = 14
 Number violating runs = 17