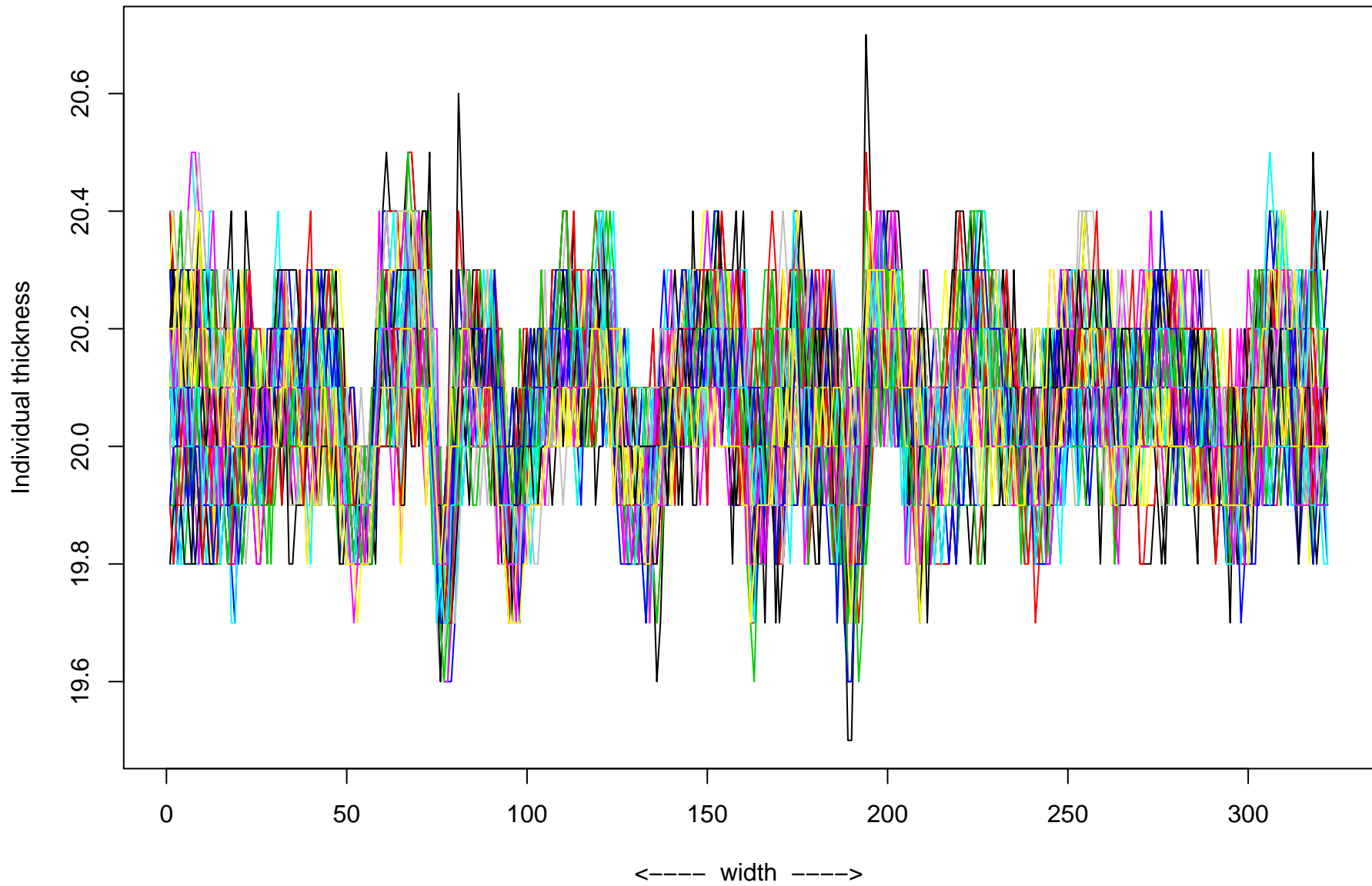
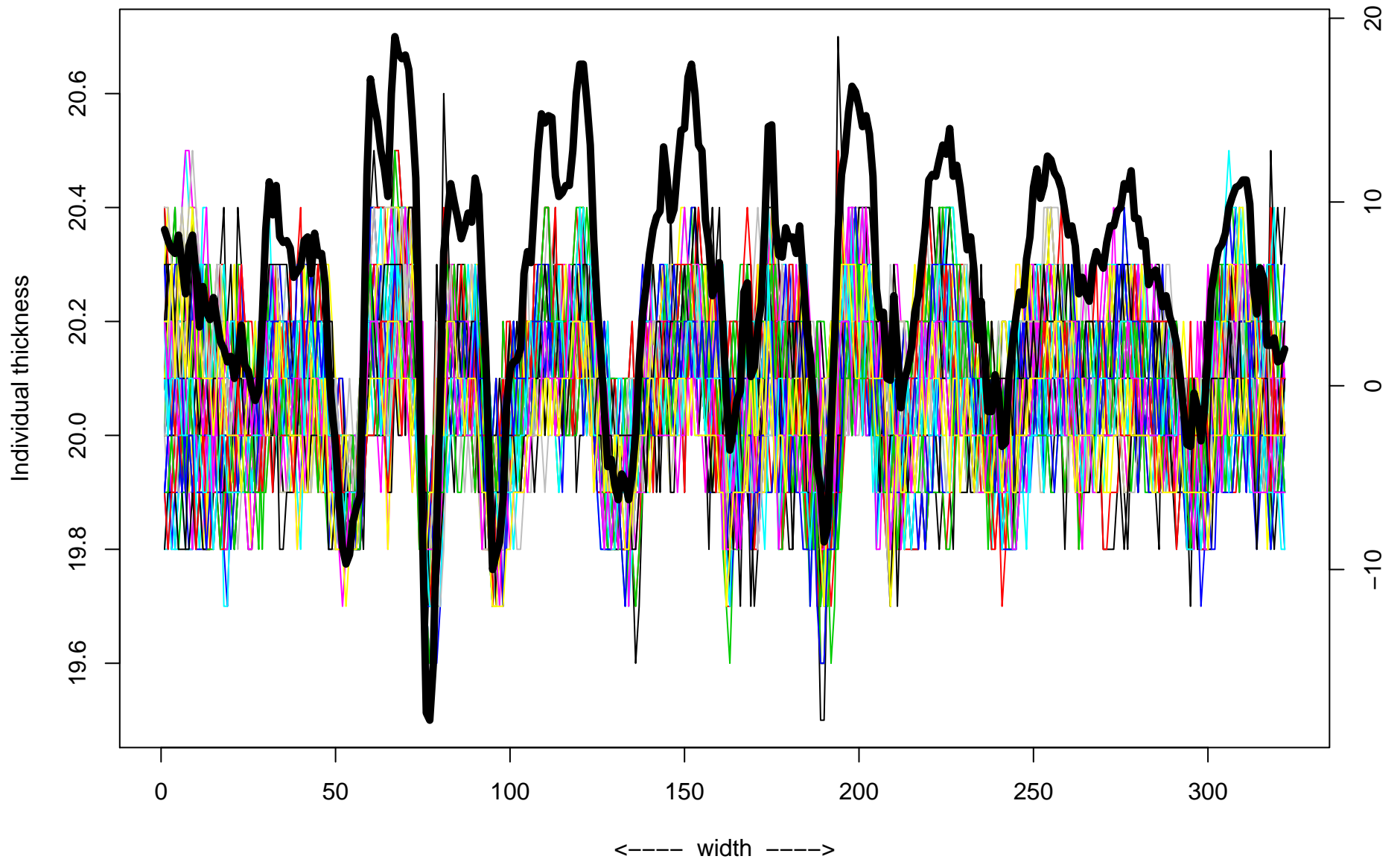


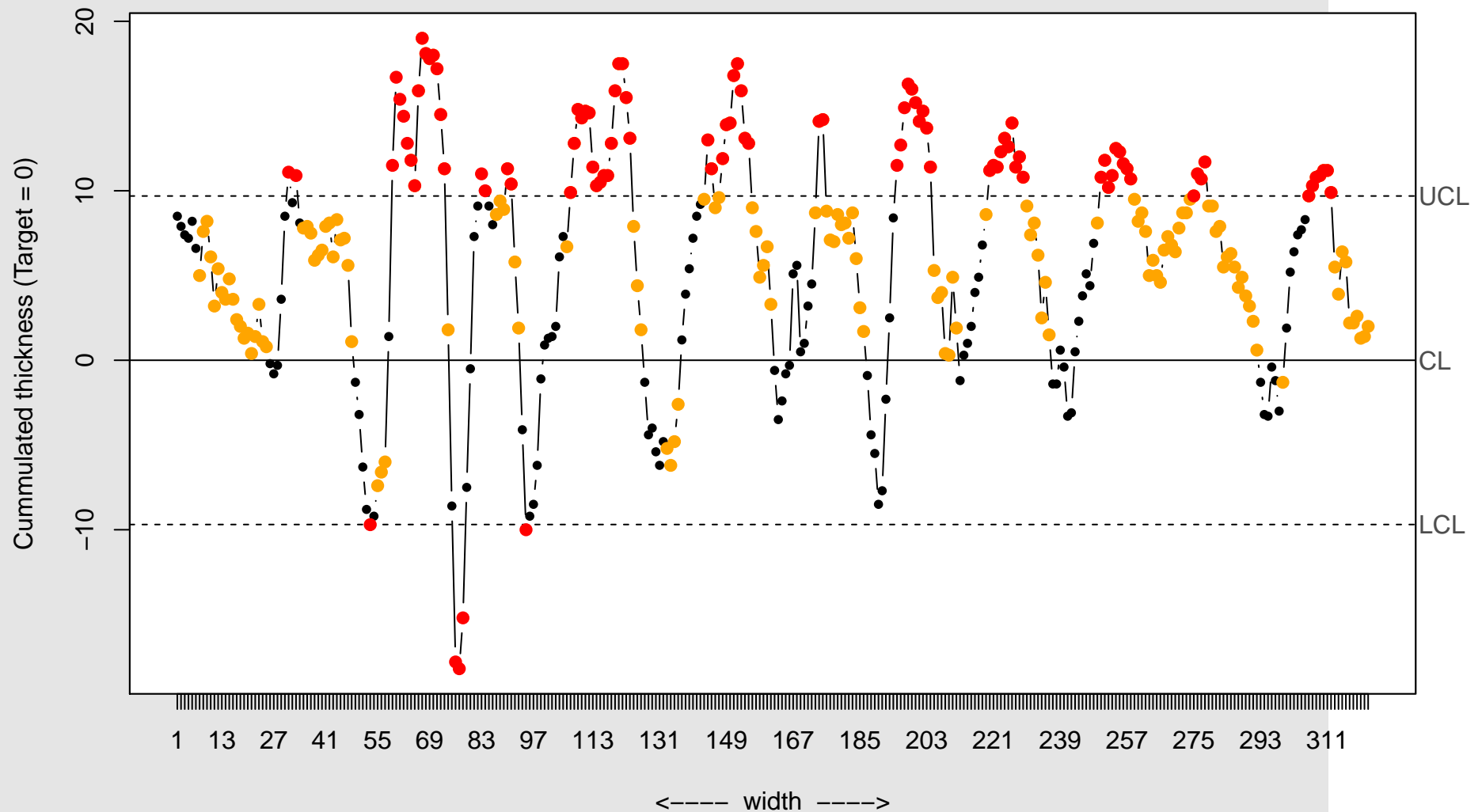
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 322

Center = 0

StdDev = 1.615353

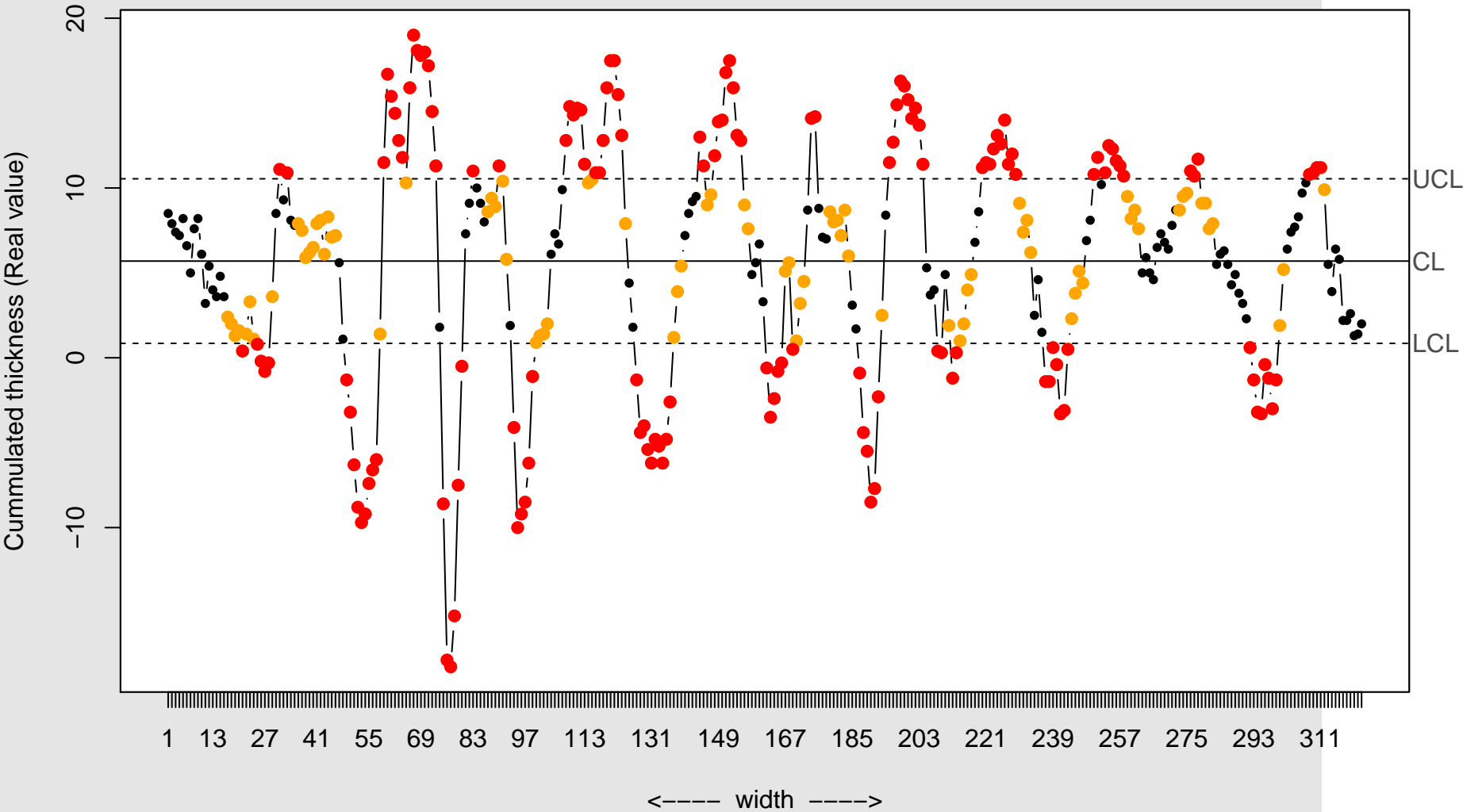
LCL = -9.692119

UCL = 9.692119

Number beyond limits = 95

Number violating runs = 205

Simulated thickness: Cpk is 1.387 and z is 2.661.

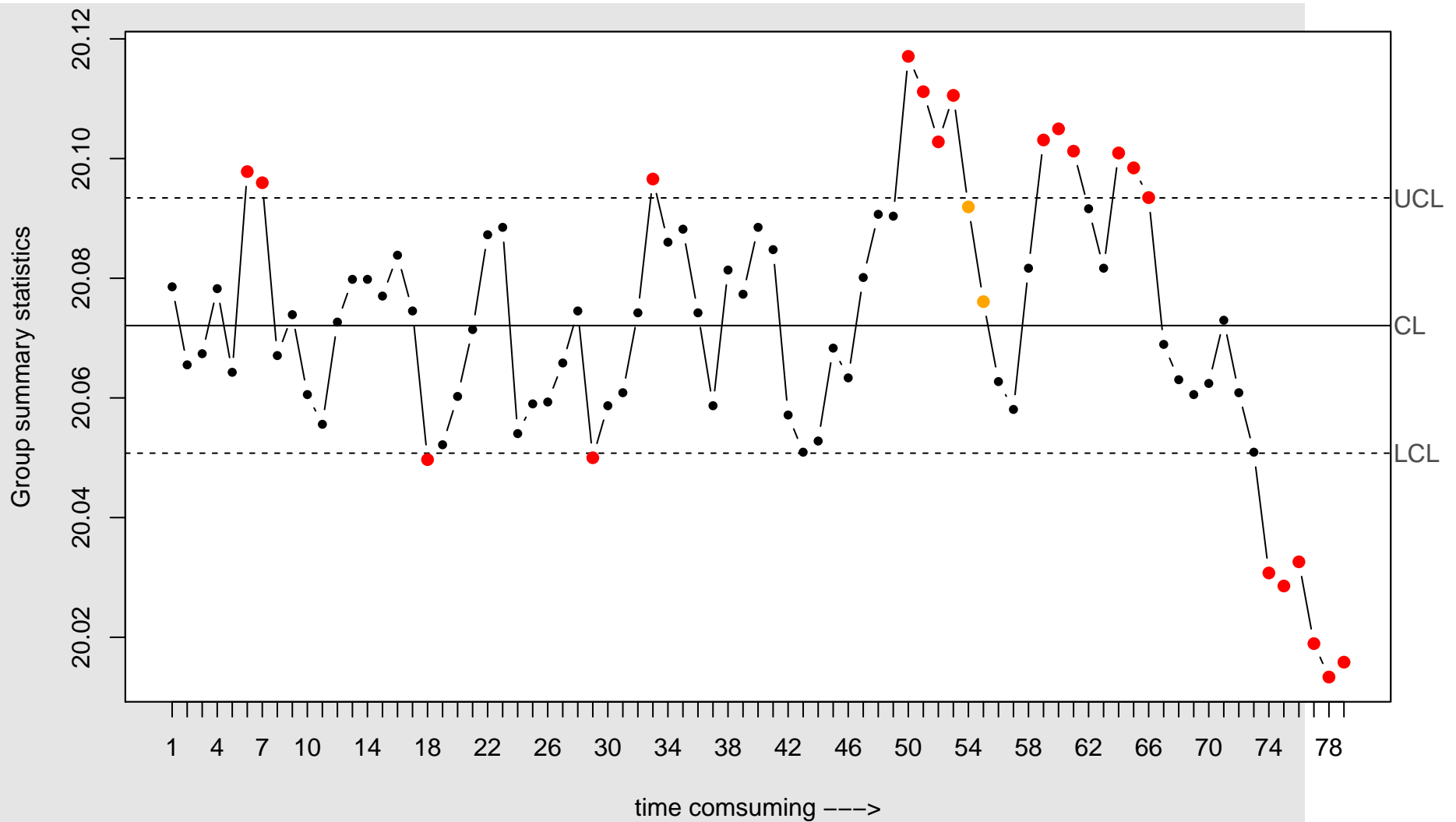


Number of groups = 322
Center = 5.695342
StdDev = 1.615353

LCL = 0.8492821
UCL = 10.5414

Number beyond limits = 146
Number violating runs = 166

X-bar chart for a given dataset

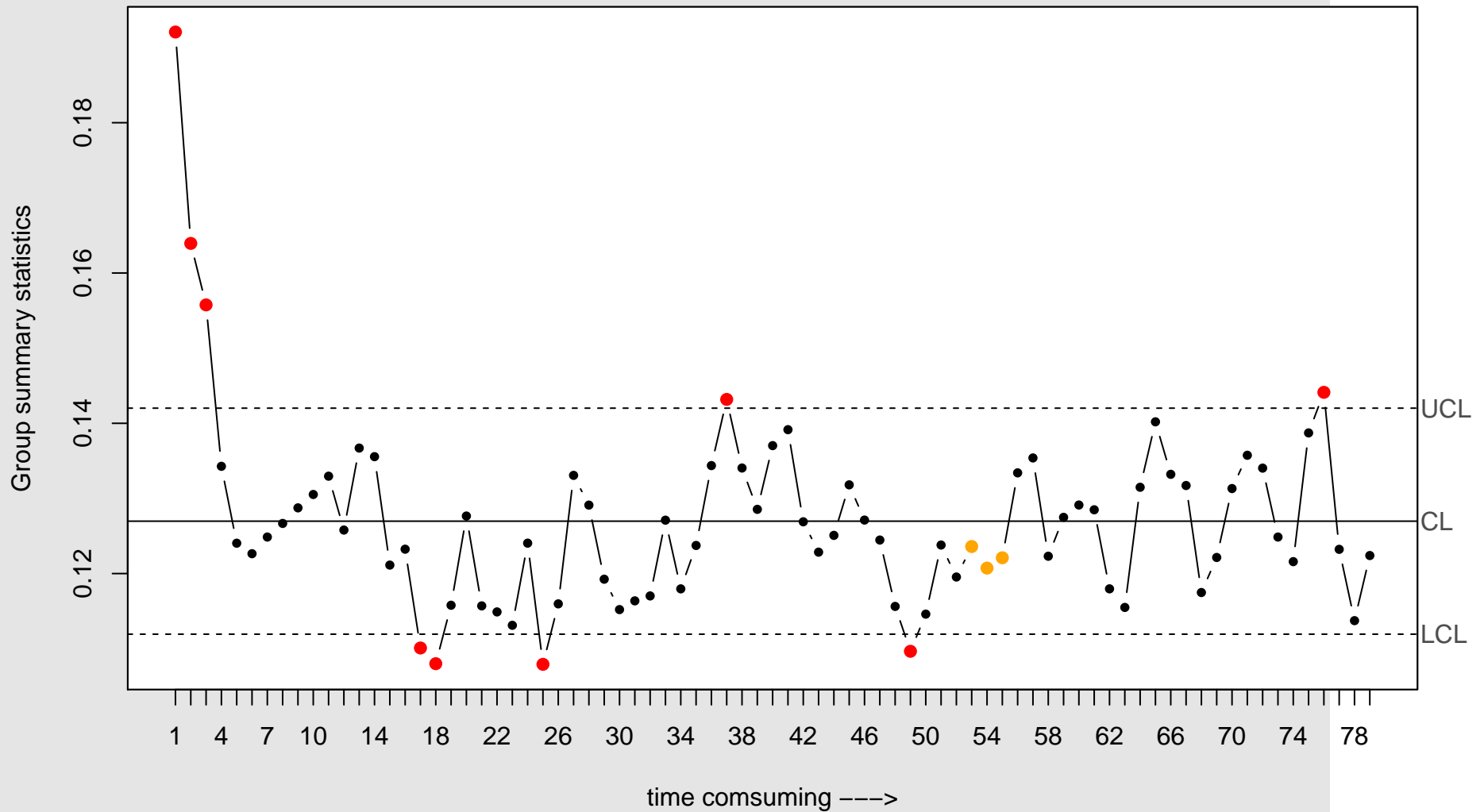


Number of groups = 79
Center = 20.07209
StdDev = 0.1275715

LCL = 20.05077
UCL = 20.09342

Number beyond limits = 21
Number violating runs = 8

S chart for a given dataset

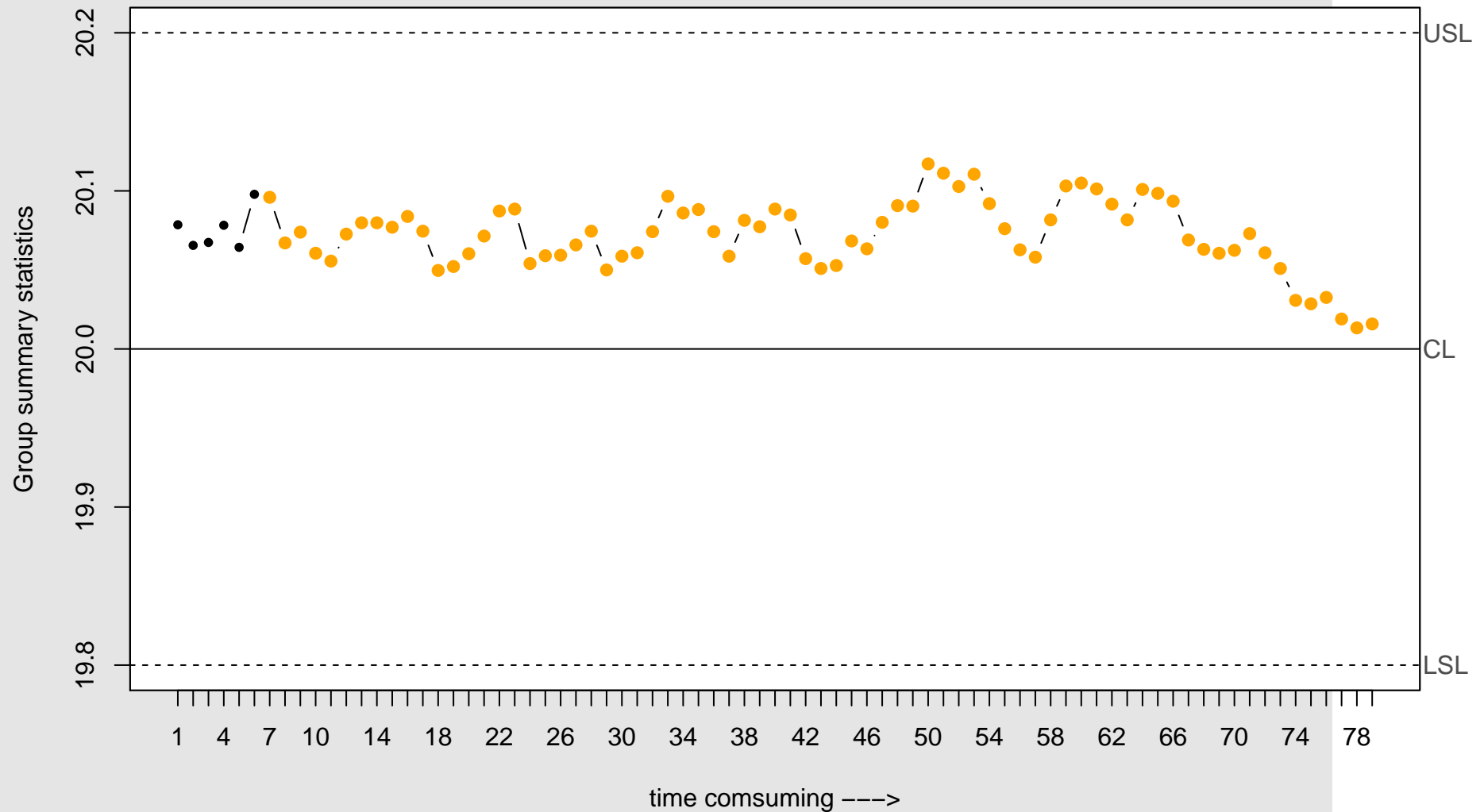


Number of groups = 79
Center = 0.1269739
StdDev = 0.1270728

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

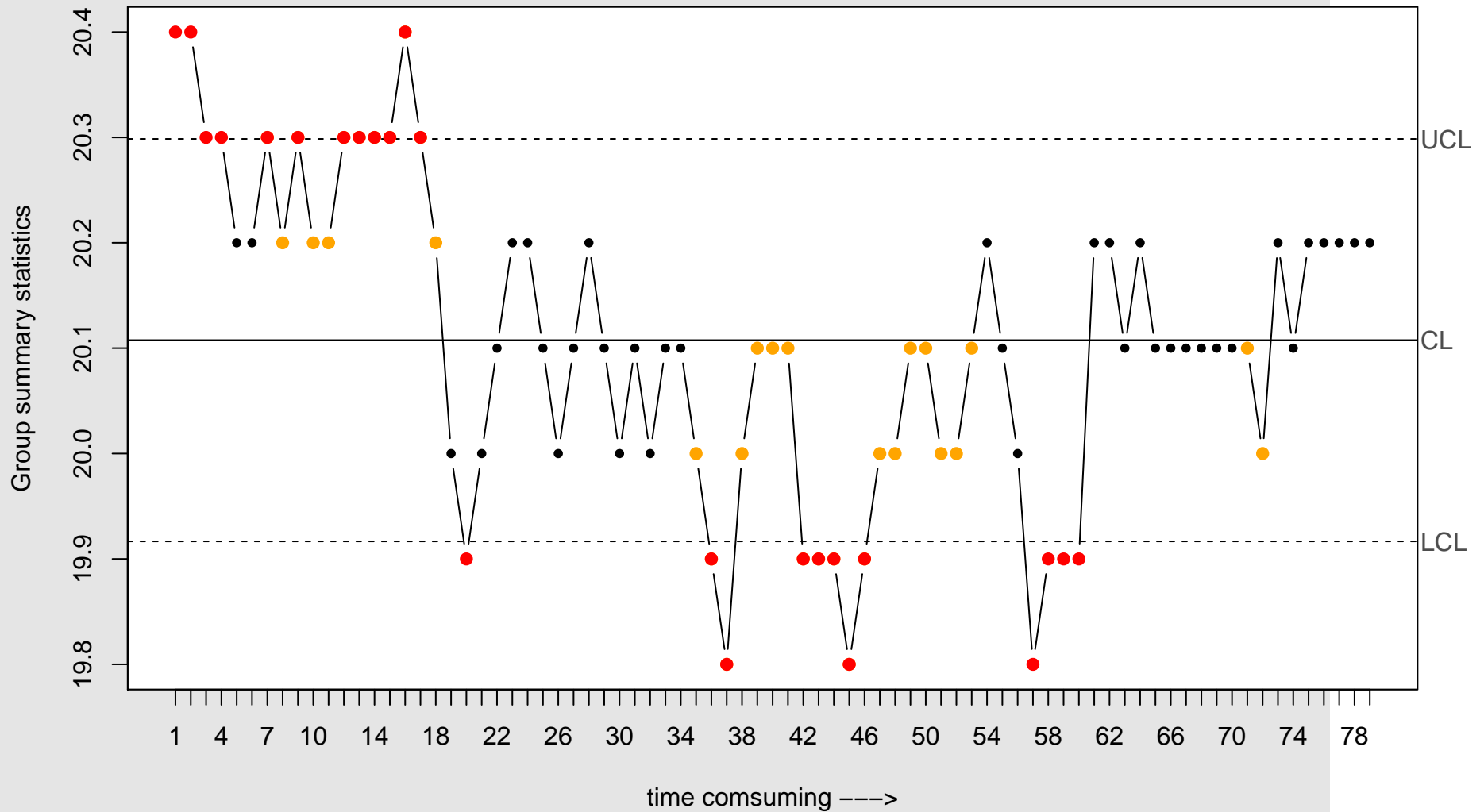
LCL = 19.8

UCL = 20.2

Number beyond limits = 0

Number violating runs = 73

1th column point of this product

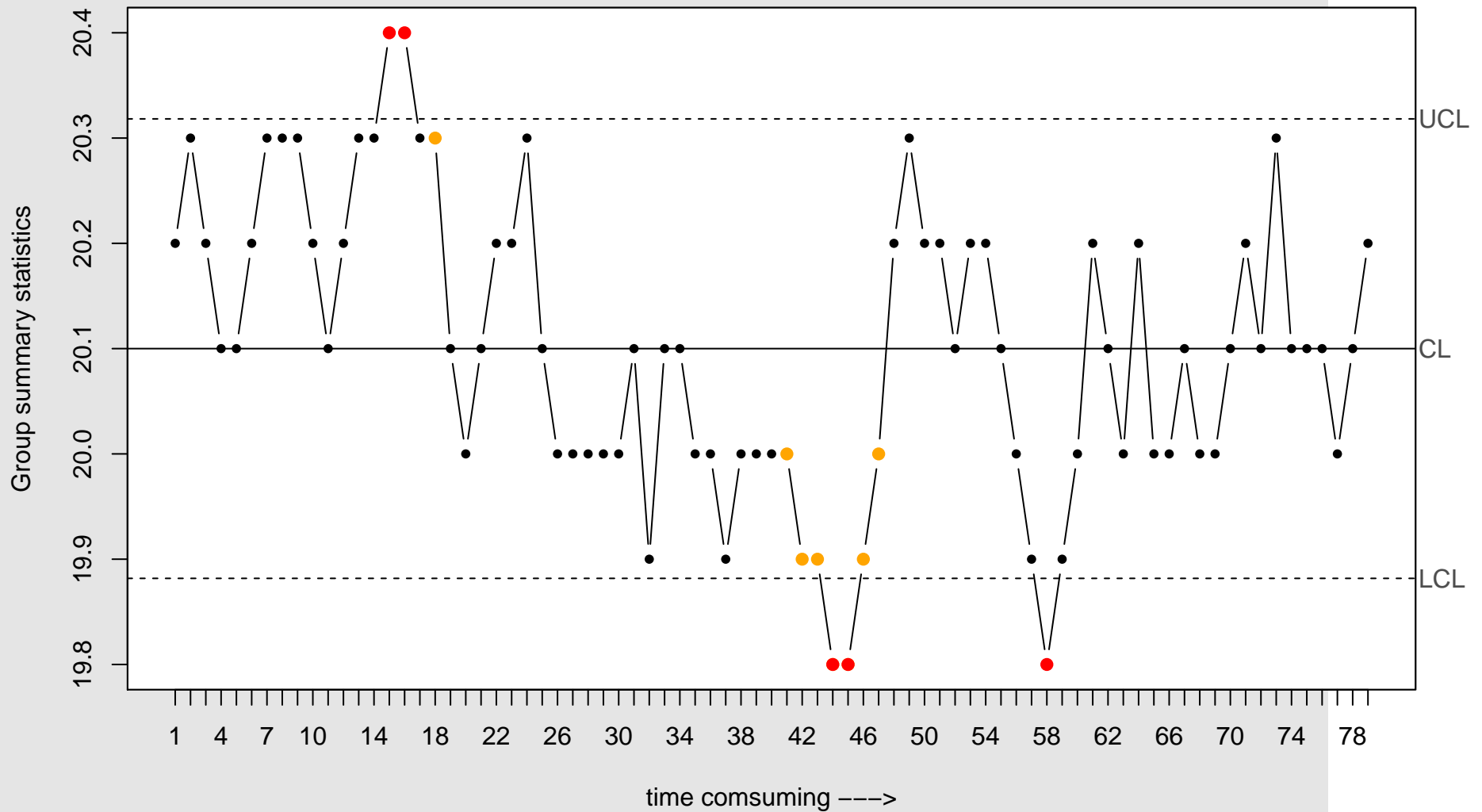


Number of groups = 79
Center = 20.10759
StdDev = 0.06364794

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

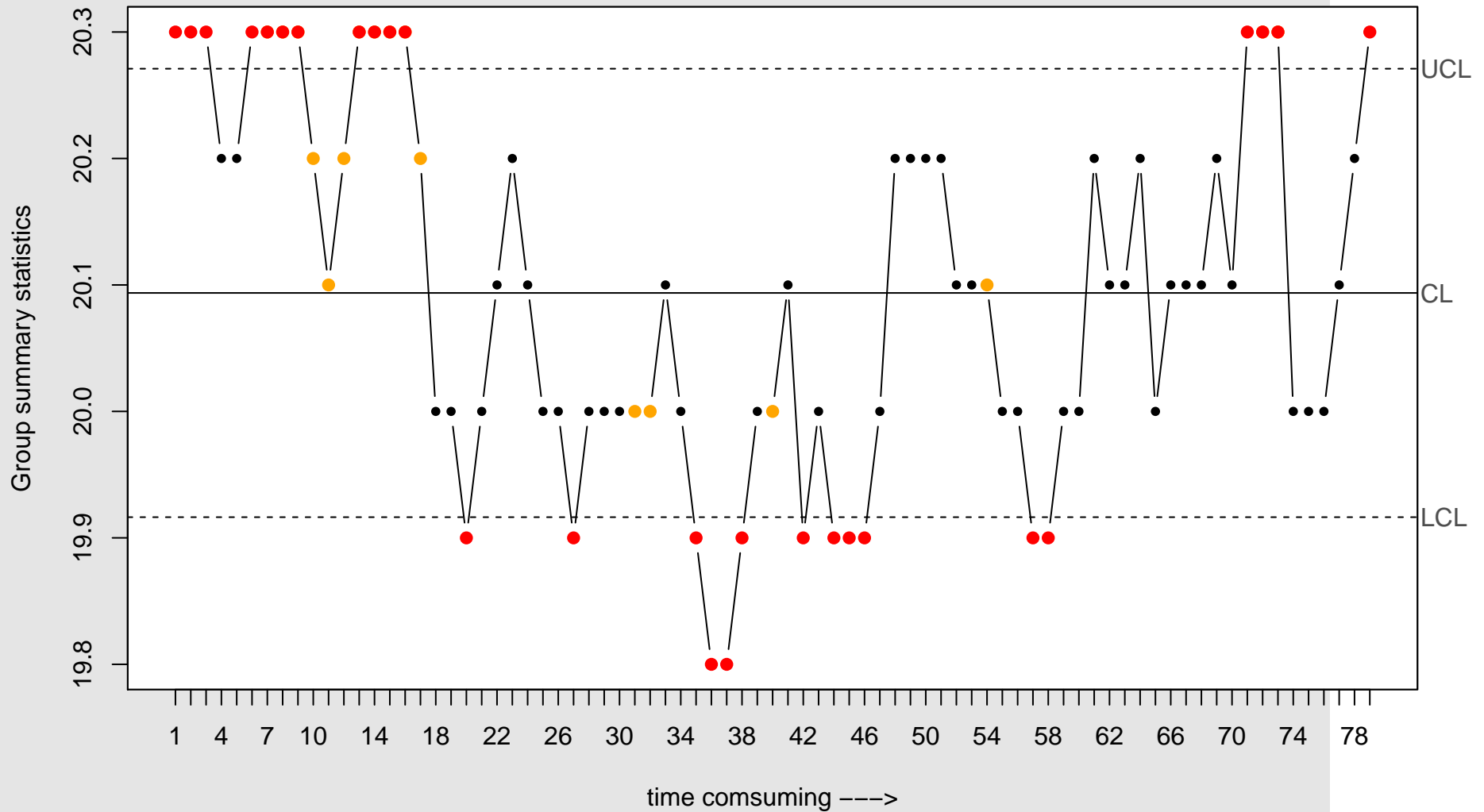
LCL = 19.88178

UCL = 20.31822

Number beyond limits = 5

Number violating runs = 8

3th column point of this product

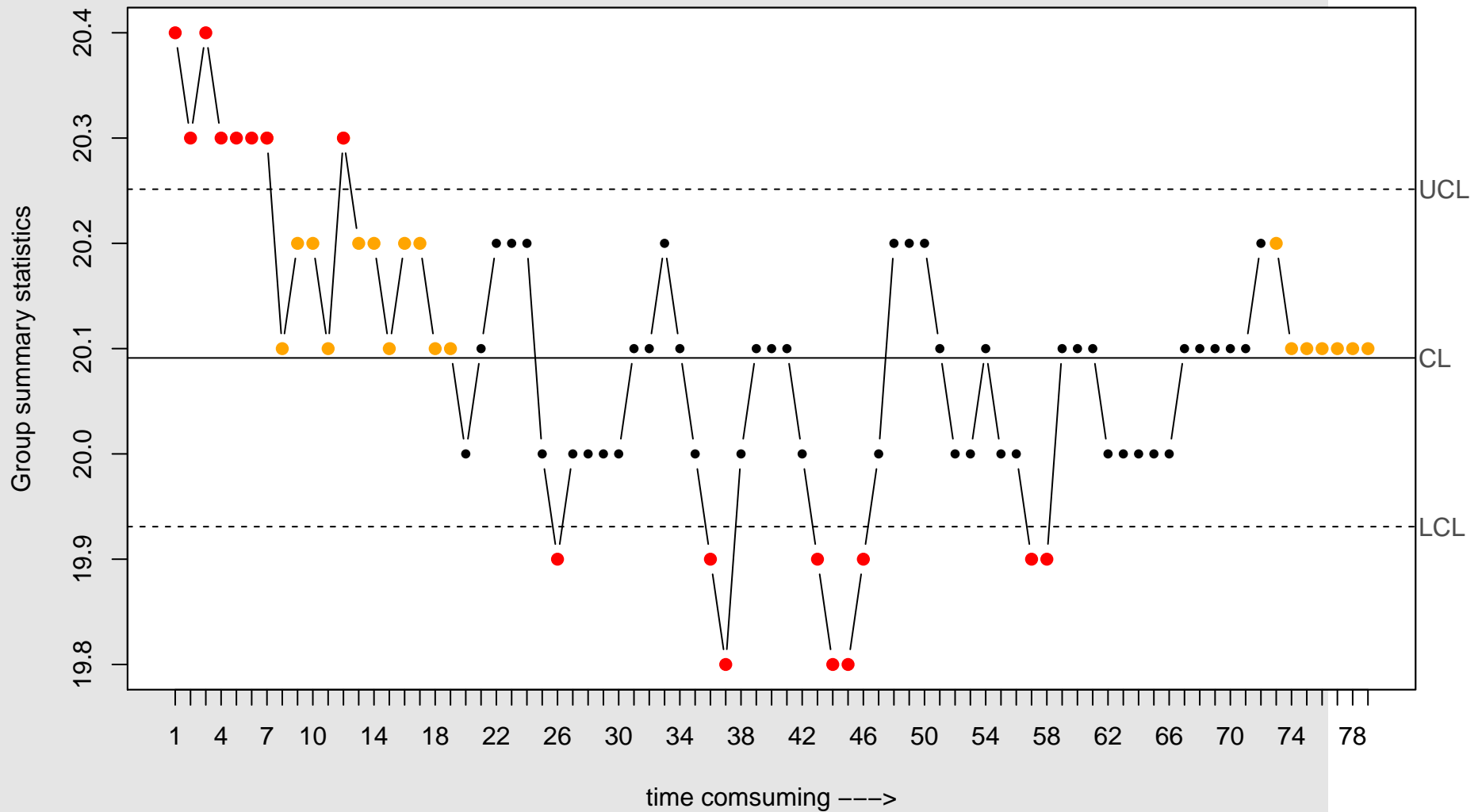


Number of groups = 79
 Center = 20.09367
 StdDev = 0.05910165

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

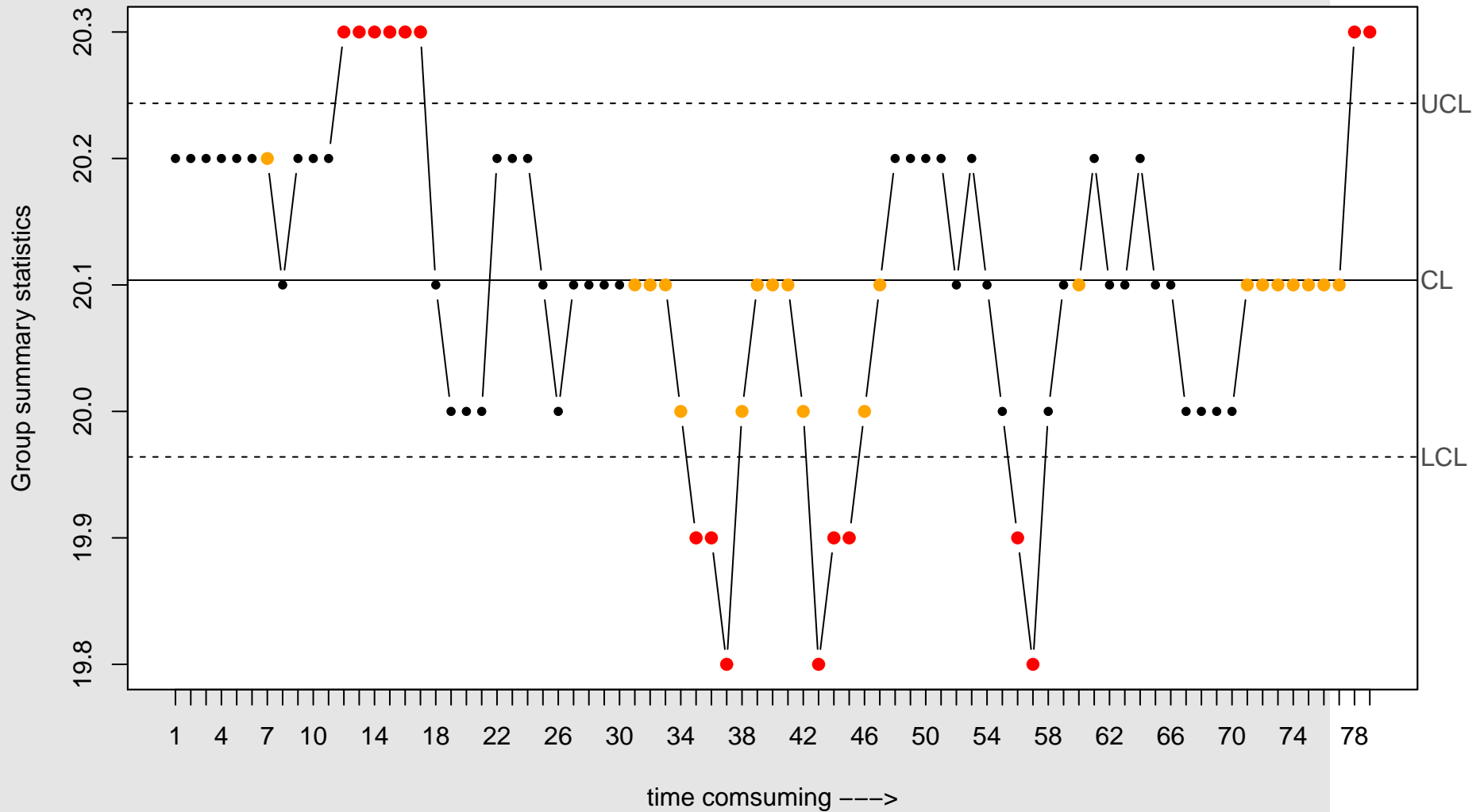
LCL = 19.93088

UCL = 20.2514

Number beyond limits = 17

Number violating runs = 20

5th column point of this product

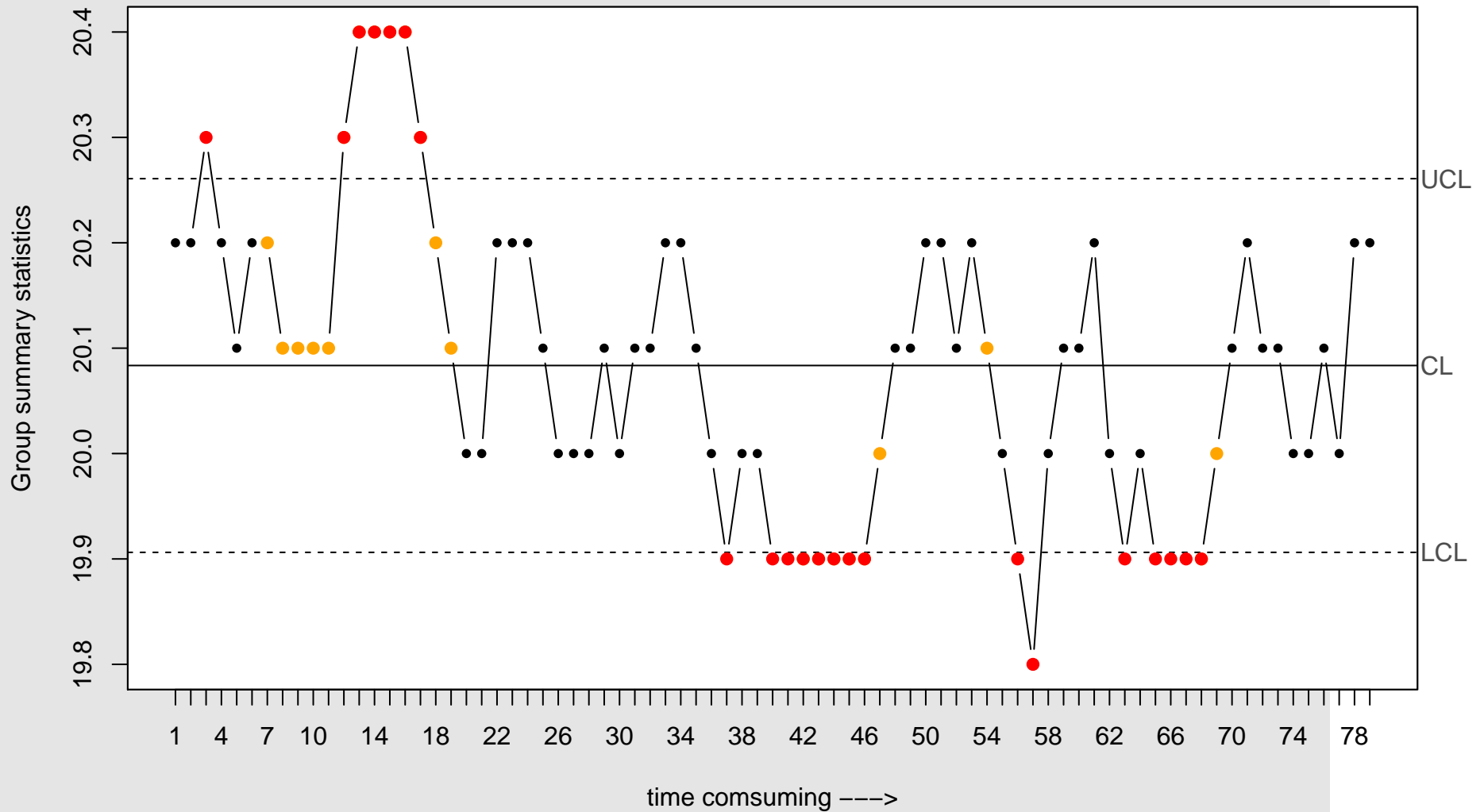


Number of groups = 79
Center = 20.1038
StdDev = 0.04659938

LCL = 19.964
UCL = 20.2436

Number beyond limits = 16
Number violating runs = 29

6th column point of this product

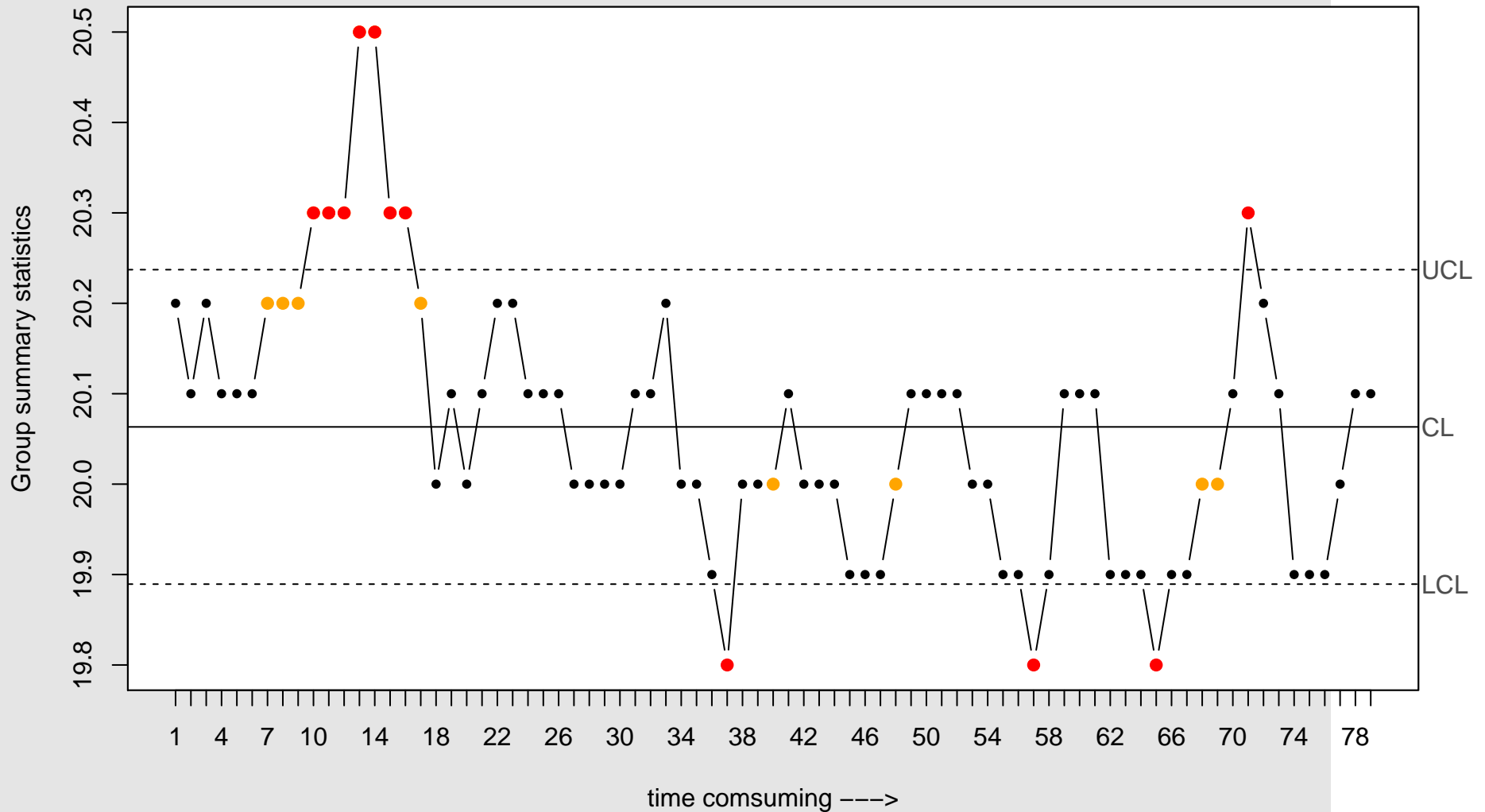


Number of groups = 79
 Center = 20.08354
 StdDev = 0.05910165

LCL = 19.90624
 UCL = 20.26085

Number beyond limits = 22
 Number violating runs = 22

7th column point of this product

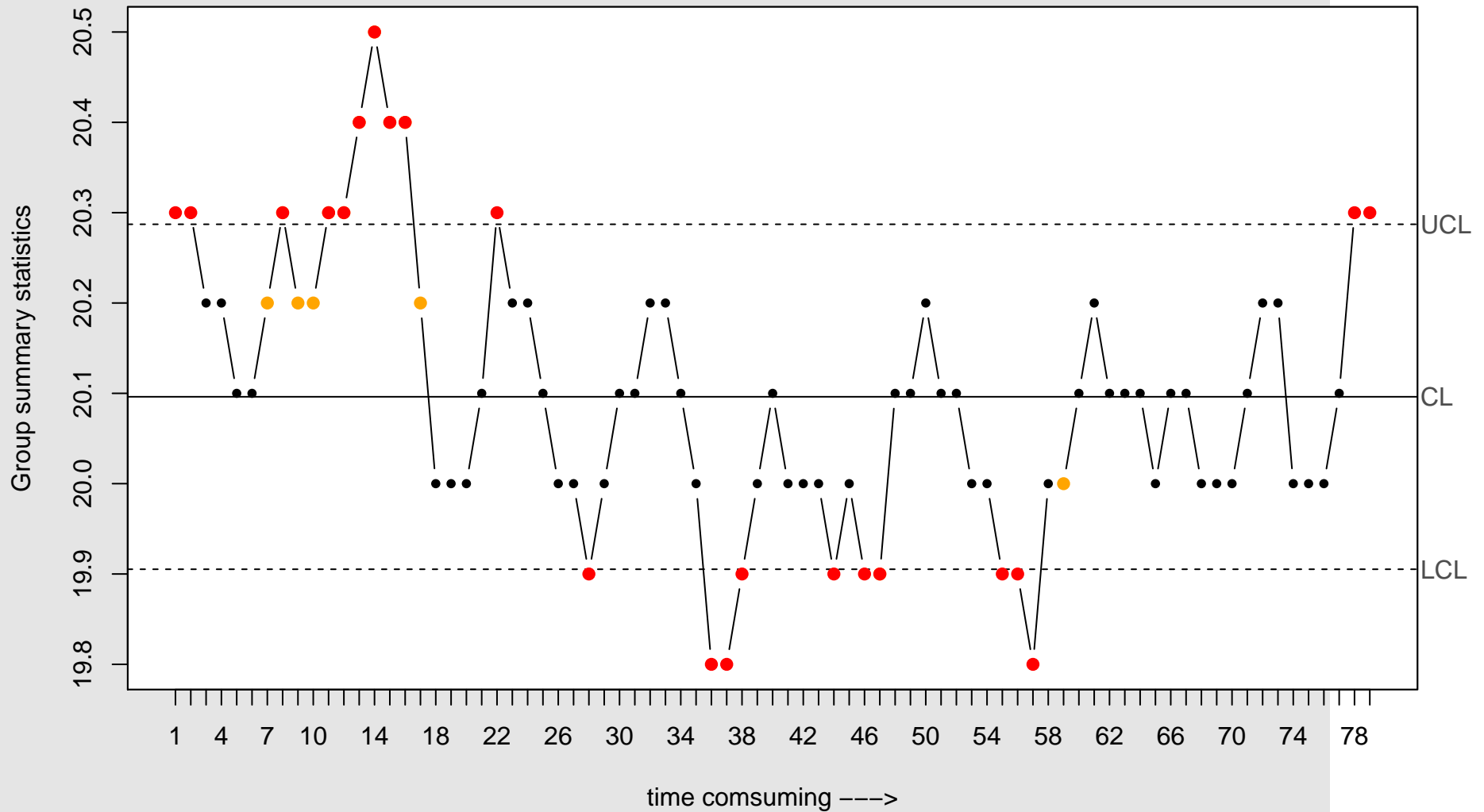


Number of groups = 79
 Center = 20.06329
 StdDev = 0.05796508

LCL = 19.8894
 UCL = 20.23719

Number beyond limits = 11
 Number violating runs = 15

8th column point of this product

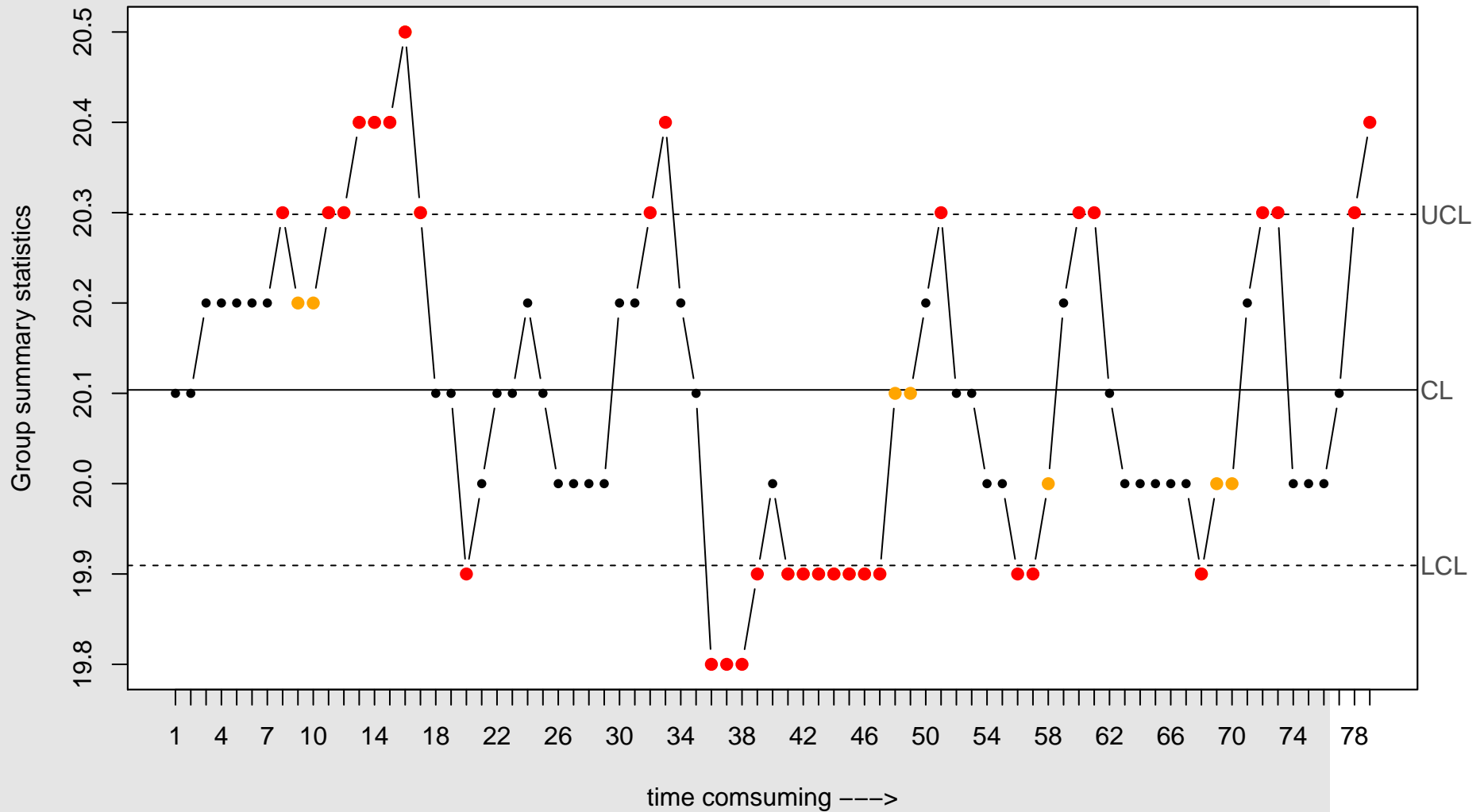


Number of groups = 79
Center = 20.0962
StdDev = 0.06364794

LCL = 19.90526
UCL = 20.28715

Number beyond limits = 22
Number violating runs = 13

9th column point of this product

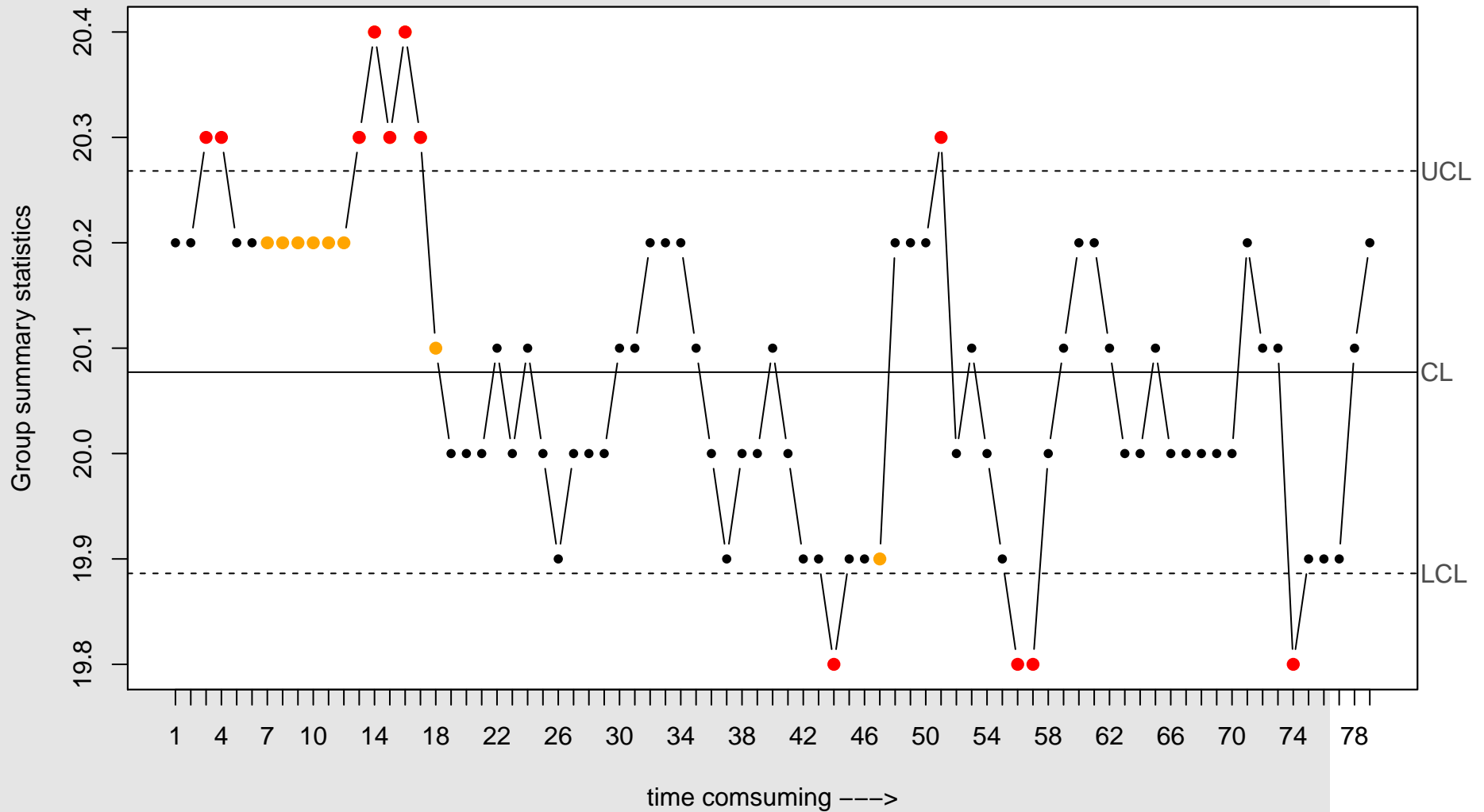


Number of groups = 79
Center = 20.1038
StdDev = 0.06478451

LCL = 19.90944
UCL = 20.29815

Number beyond limits = 32
Number violating runs = 22

10th column point of this product

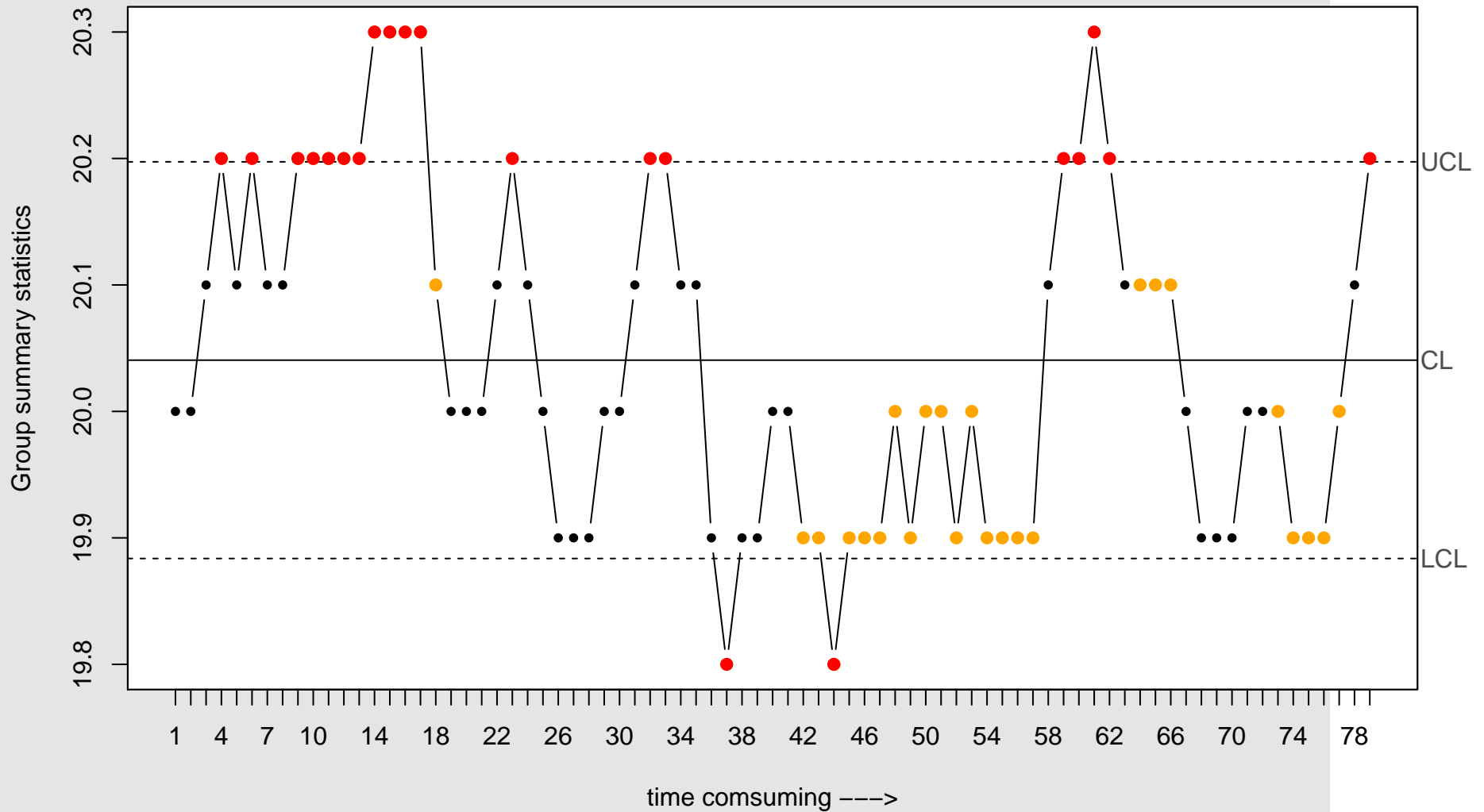


Number of groups = 79
 Center = 20.07722
 StdDev = 0.06364794

LCL = 19.88627
 UCL = 20.26816

Number beyond limits = 12
 Number violating runs = 13

11th column point of this product

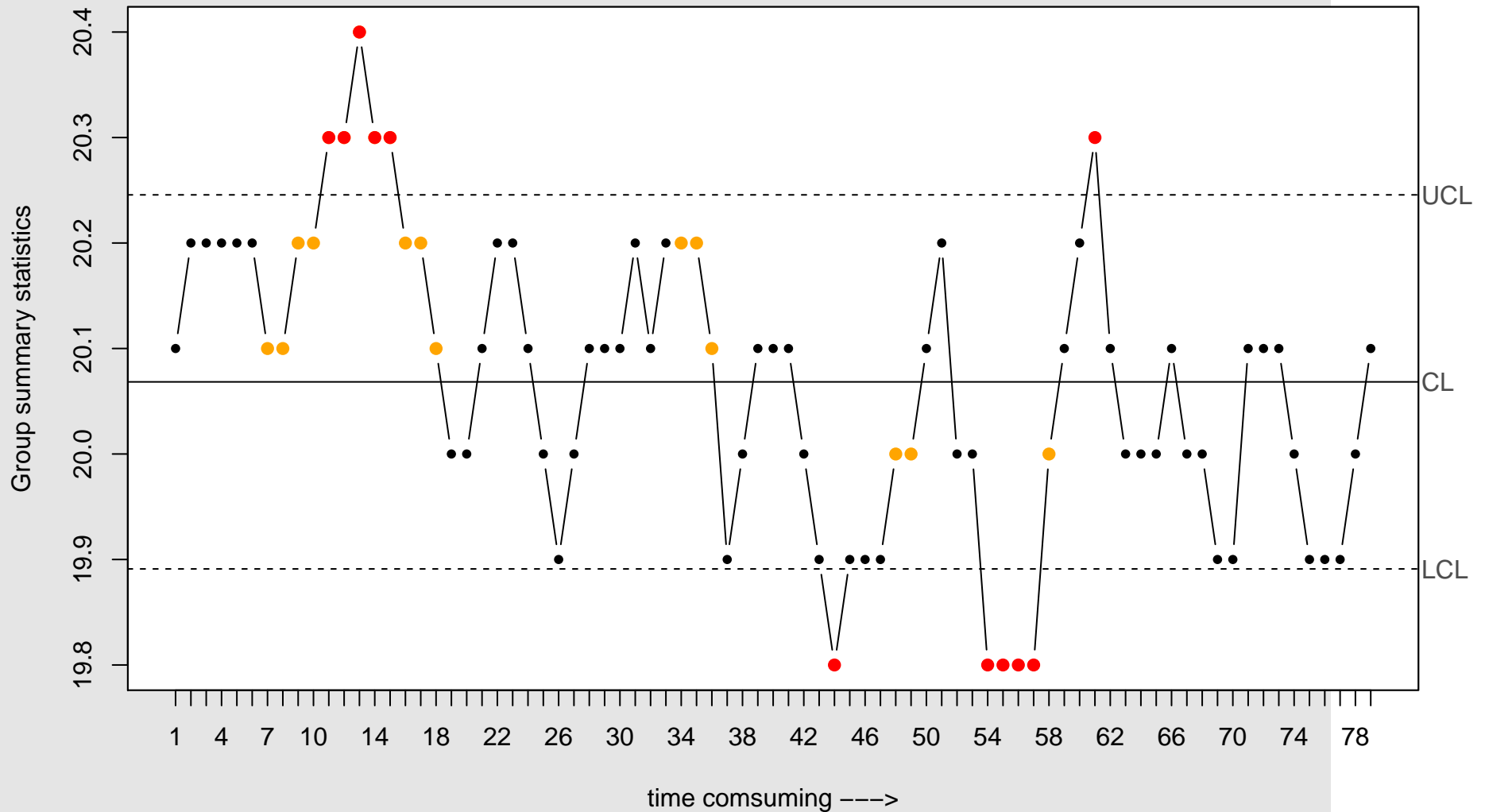


Number of groups = 79
Center = 20.04051
StdDev = 0.05228223

LCL = 19.88366
UCL = 20.19735

Number beyond limits = 21
Number violating runs = 34

12th column point of this product

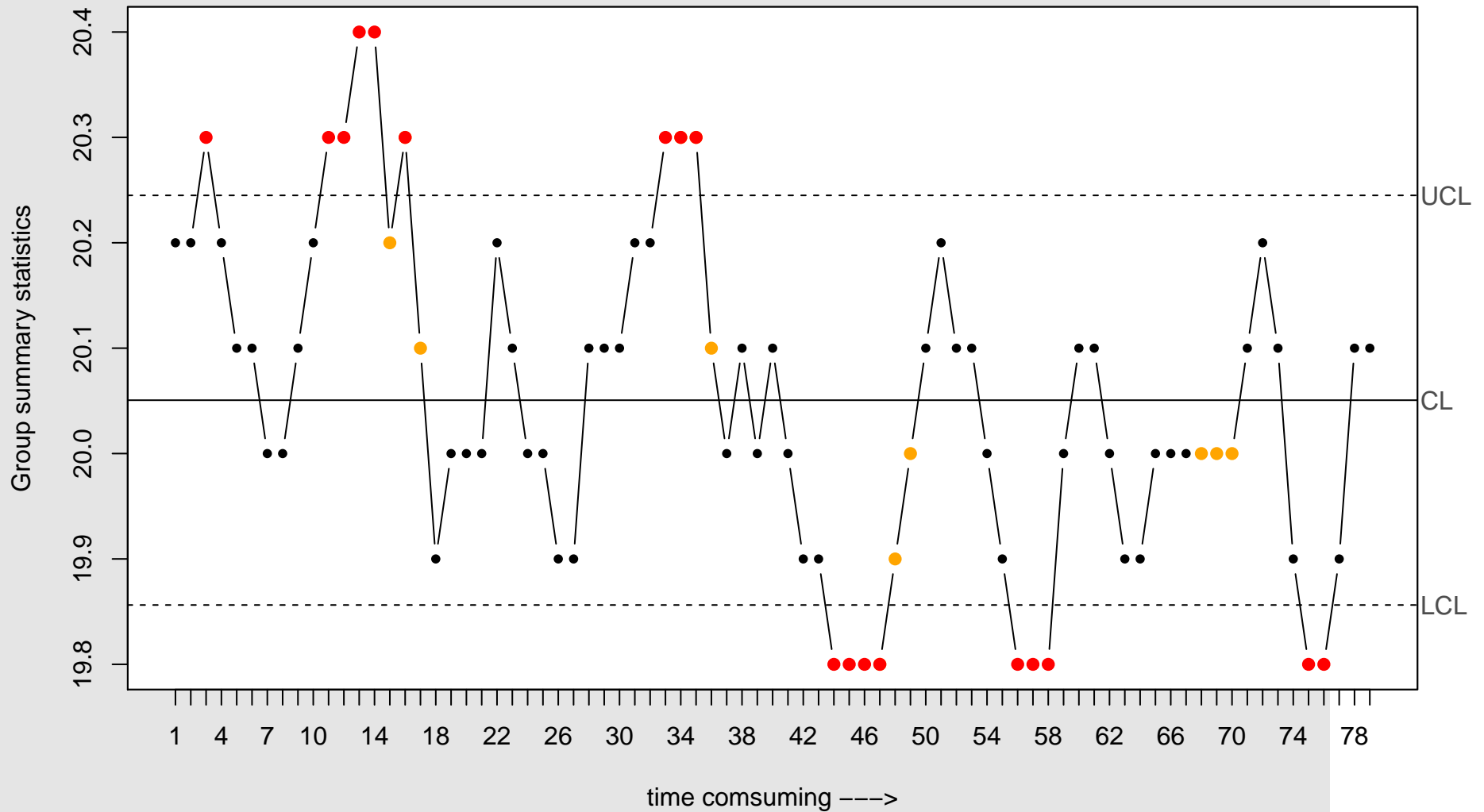


Number of groups = 79
 Center = 20.06835
 StdDev = 0.05910165

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

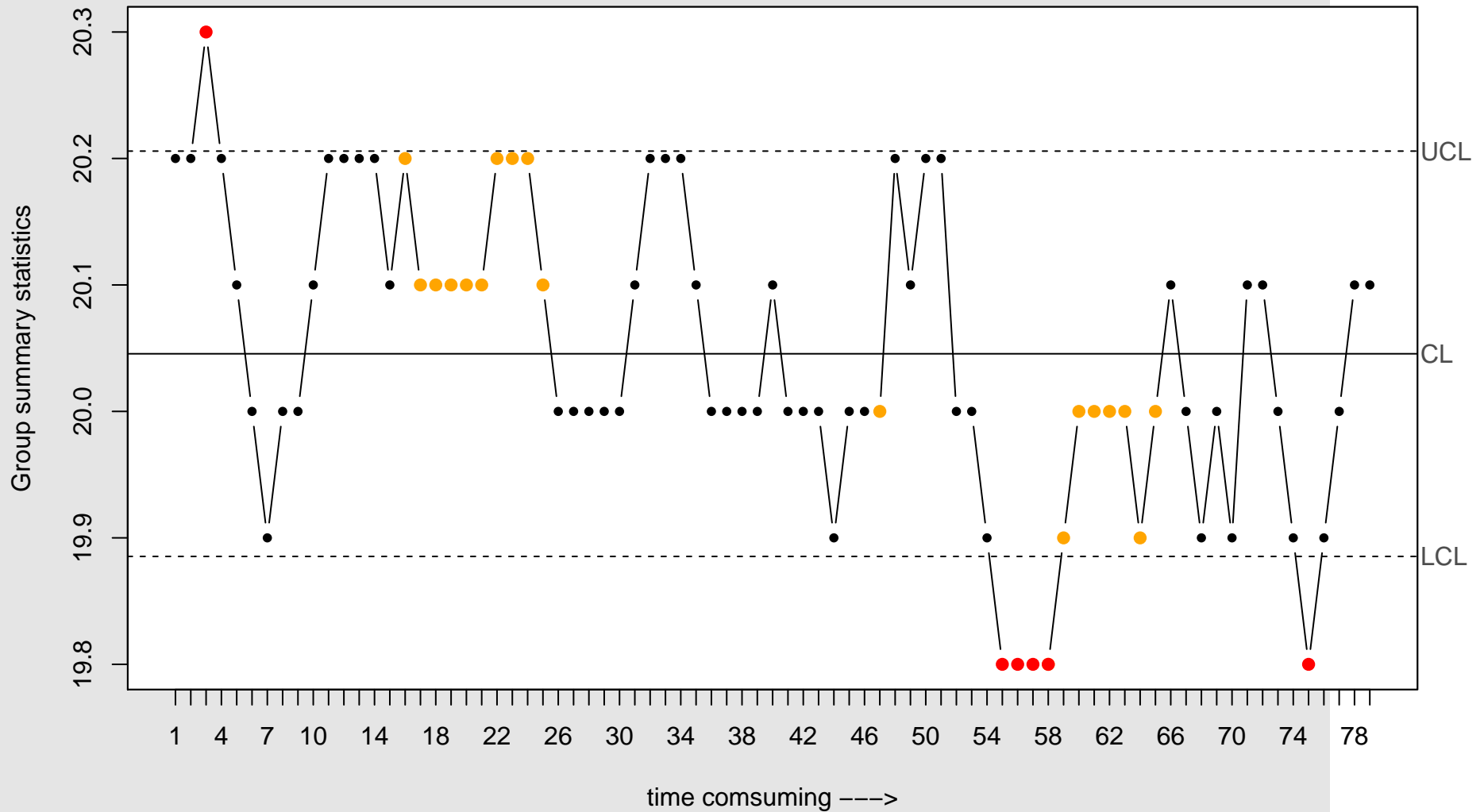
LCL = 19.85628

UCL = 20.24499

Number beyond limits = 18

Number violating runs = 12

14th column point of this product

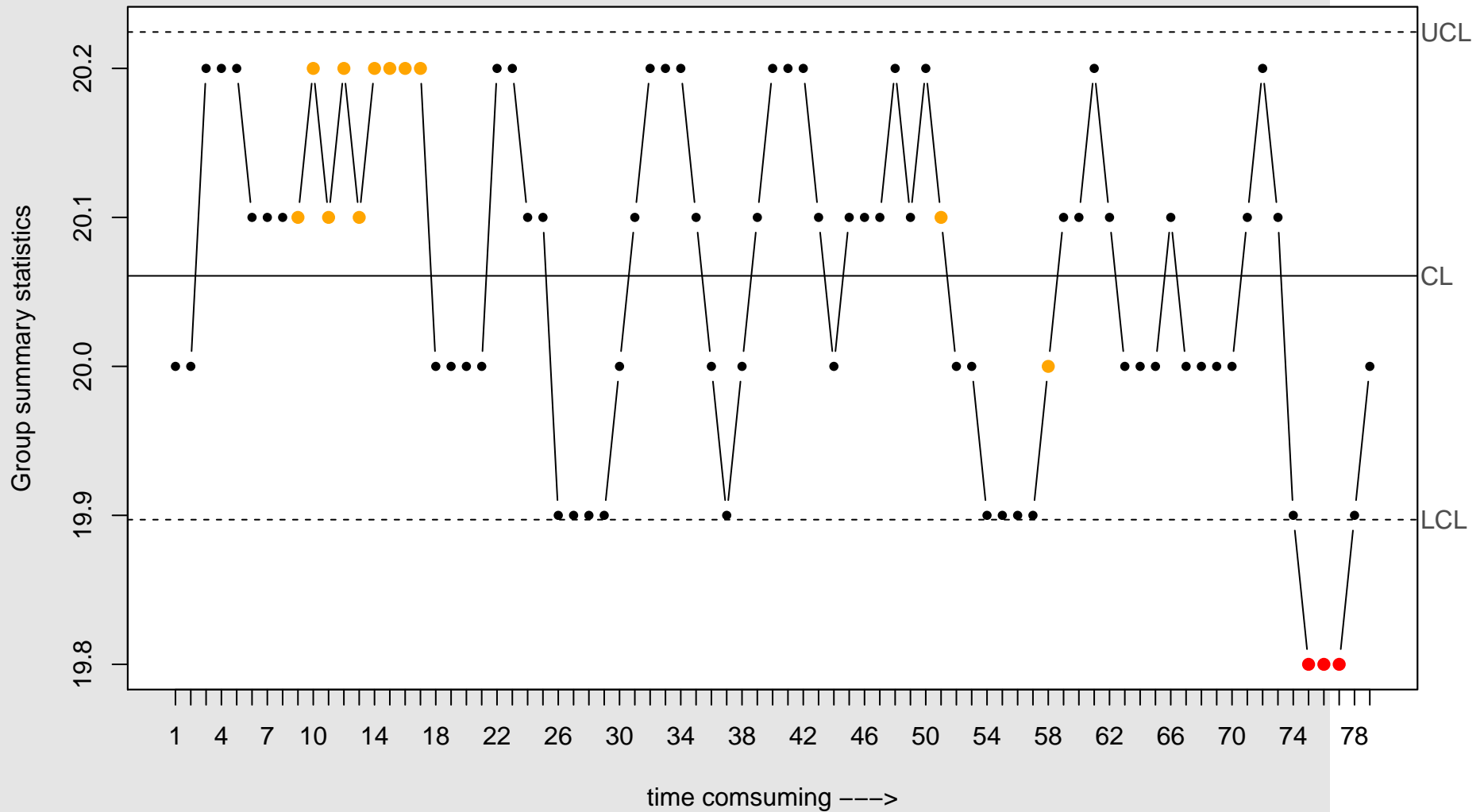


Number of groups = 79
 Center = 20.04557
 StdDev = 0.0534188

LCL = 19.88531
 UCL = 20.20583

Number beyond limits = 6
 Number violating runs = 19

15th column point of this product

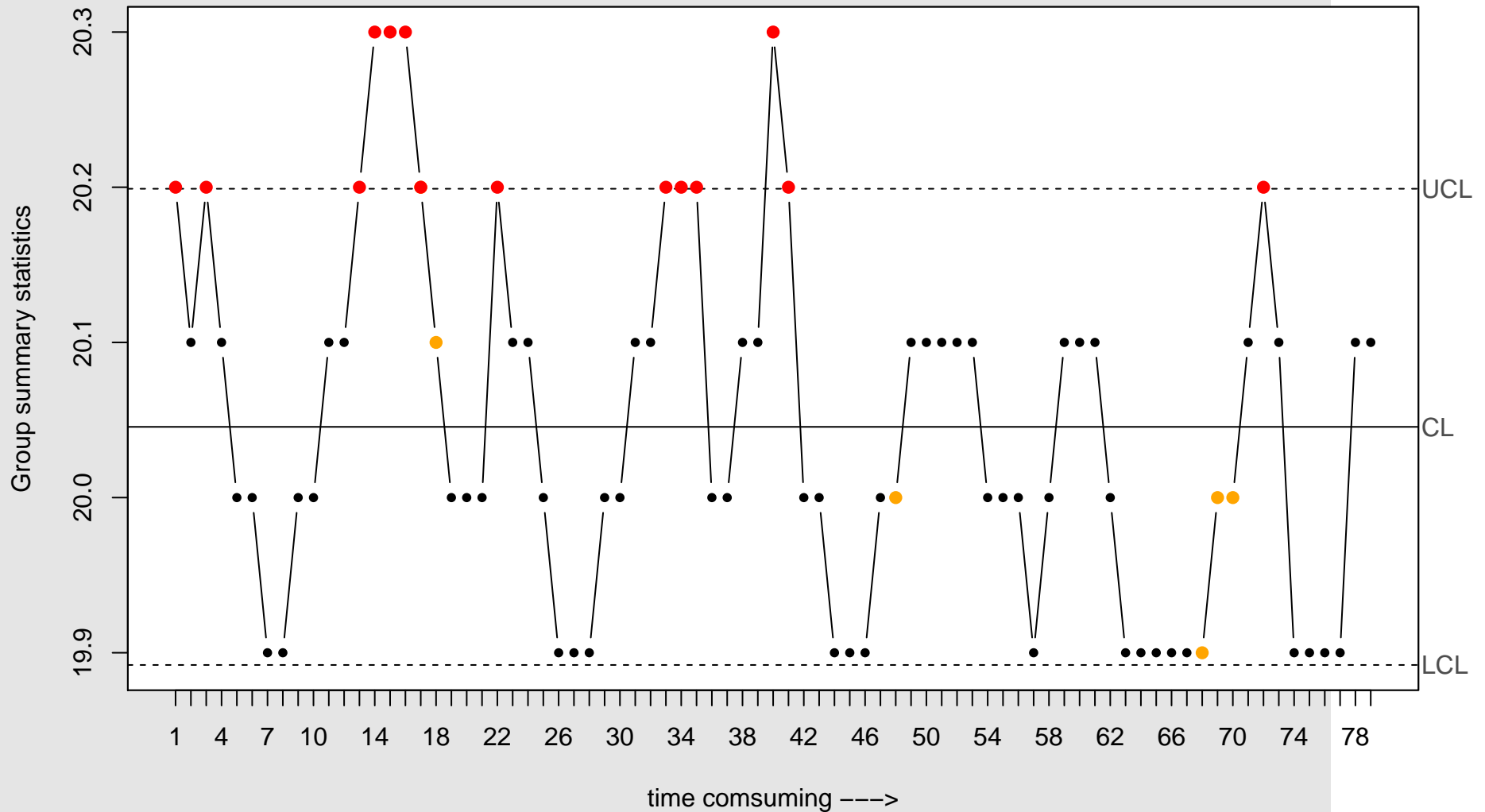


Number of groups = 79
Center = 20.06076
StdDev = 0.05455537

LCL = 19.89709
UCL = 20.22443

Number beyond limits = 3
Number violating runs = 11

16th column point of this product

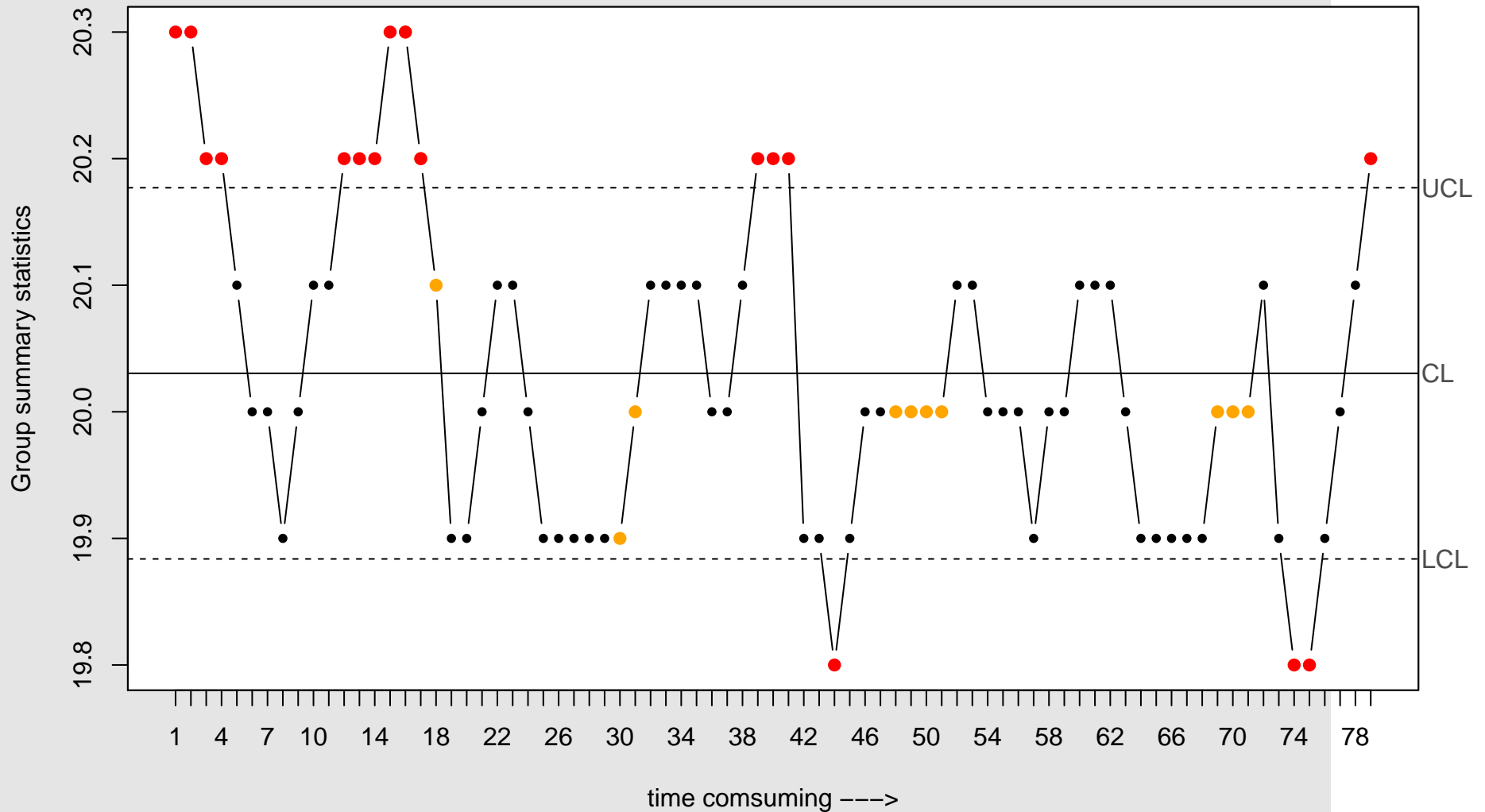


Number of groups = 79
Center = 20.04557
StdDev = 0.05114566

LCL = 19.89213
UCL = 20.19901

Number beyond limits = 14
Number violating runs = 6

17th column point of this product

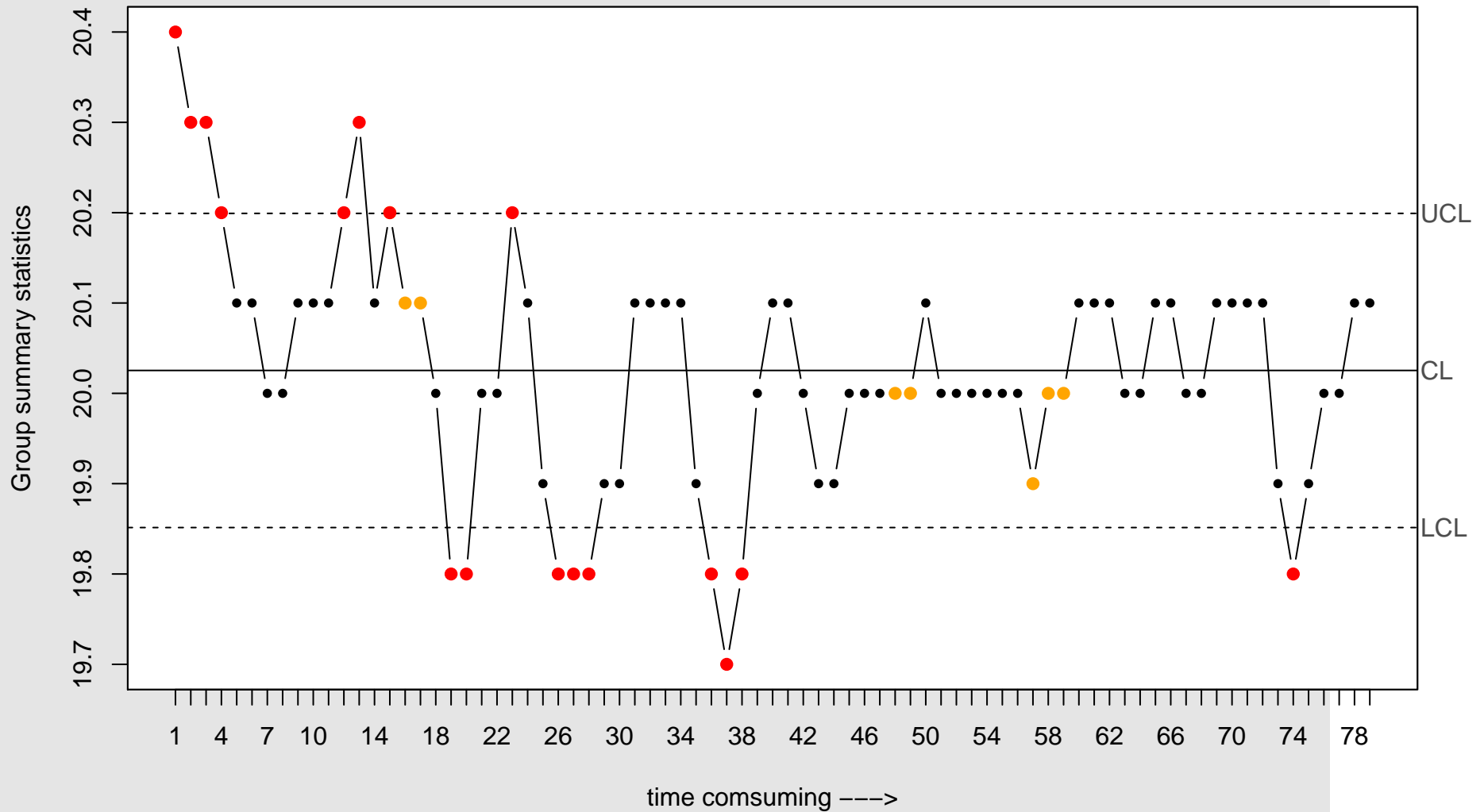


Number of groups = 79
Center = 20.03038
StdDev = 0.04887252

LCL = 19.88376
UCL = 20.177

Number beyond limits = 17
Number violating runs = 12

18th column point of this product

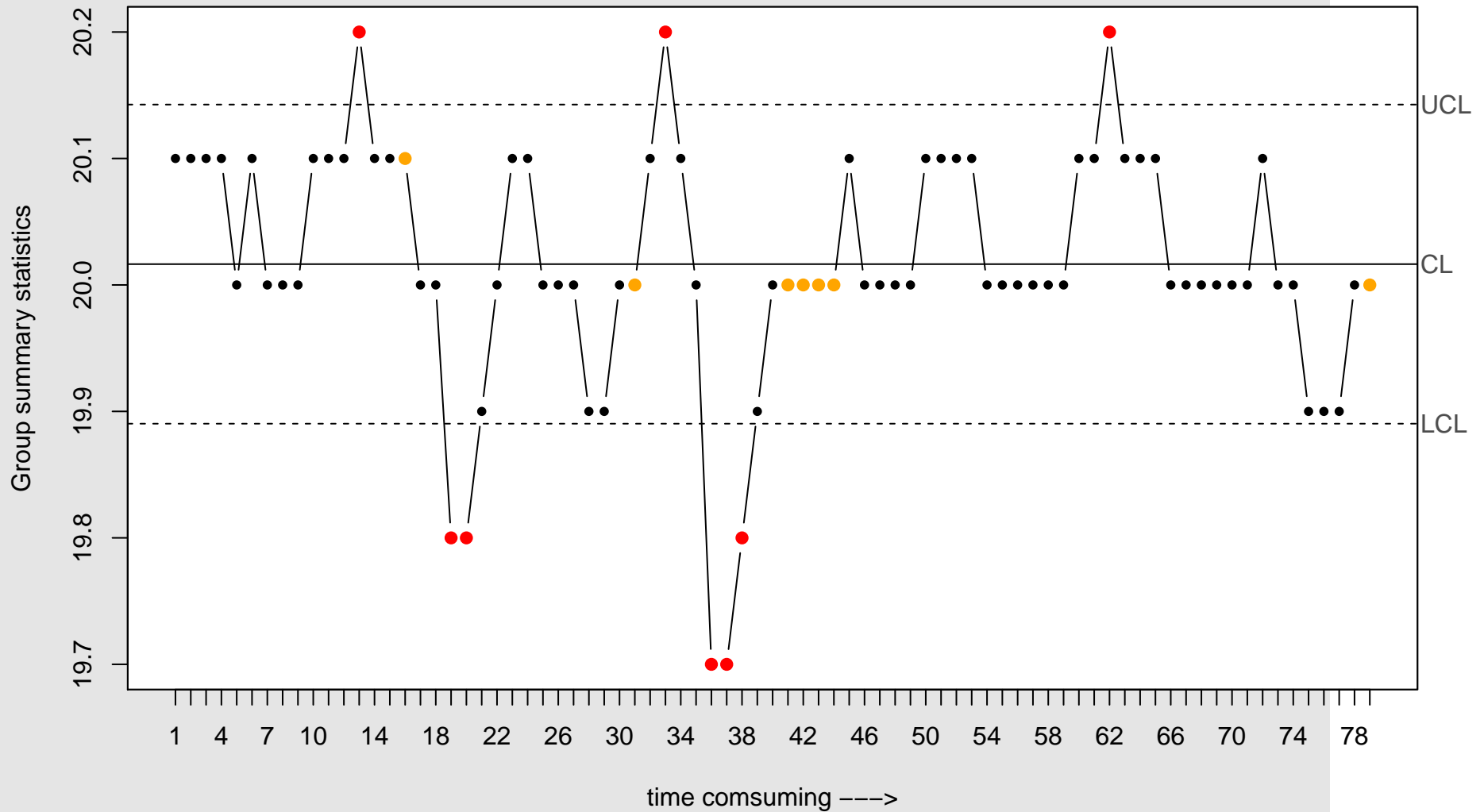


Number of groups = 79
 Center = 20.02532
 StdDev = 0.05796508

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

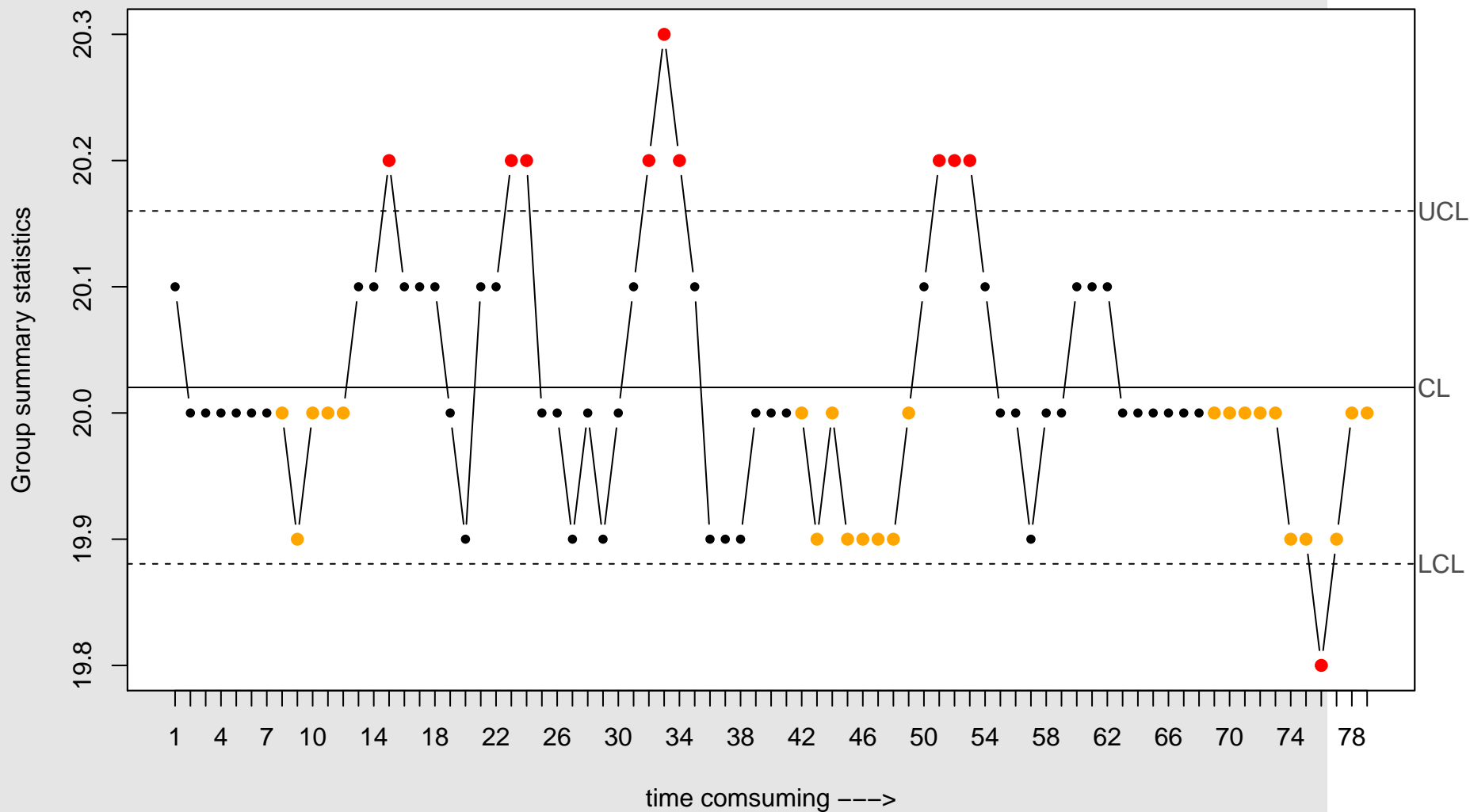
LCL = 19.8903

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

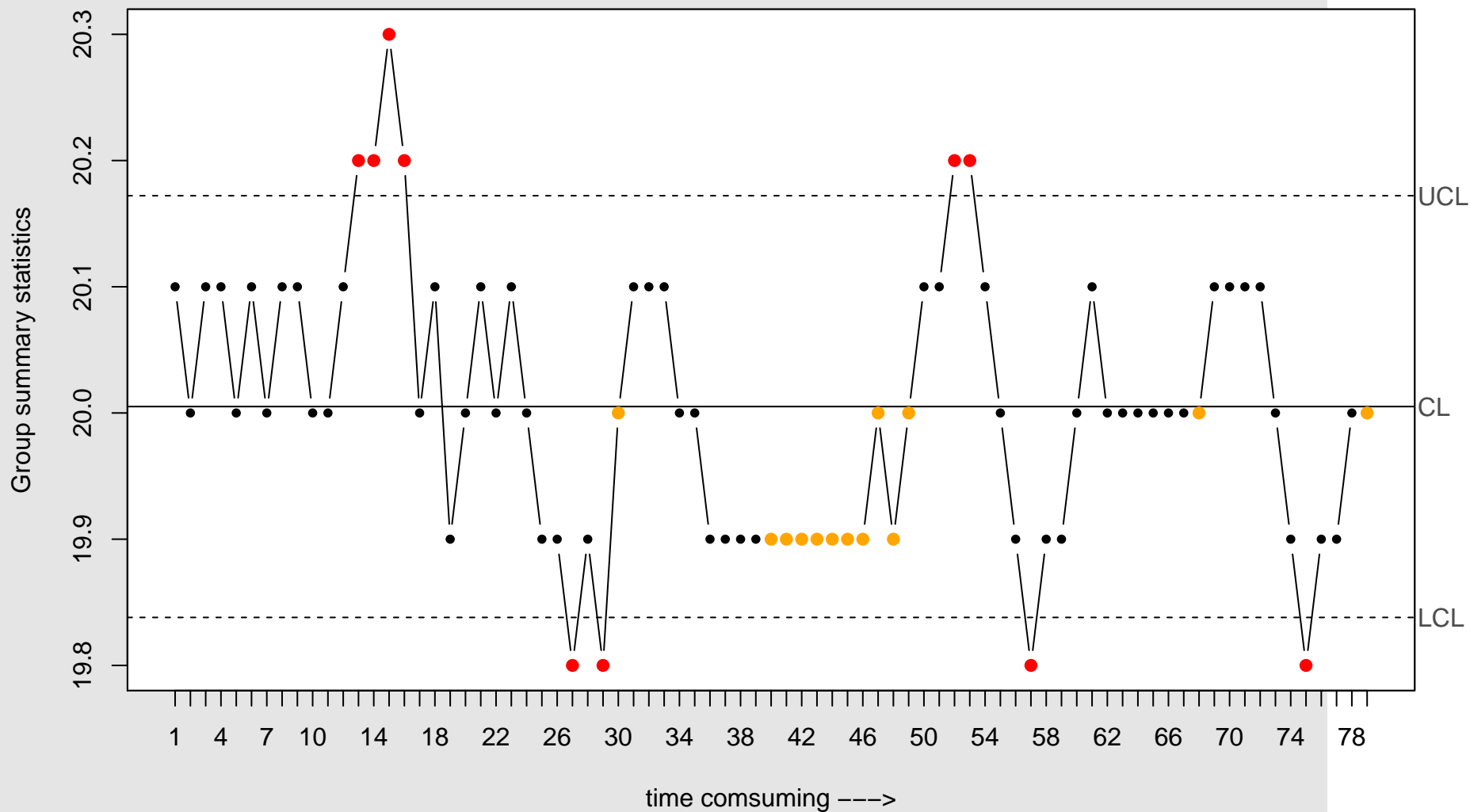
LCL = 19.88046

UCL = 20.16005

Number beyond limits = 10

Number violating runs = 24

21th column point of this product

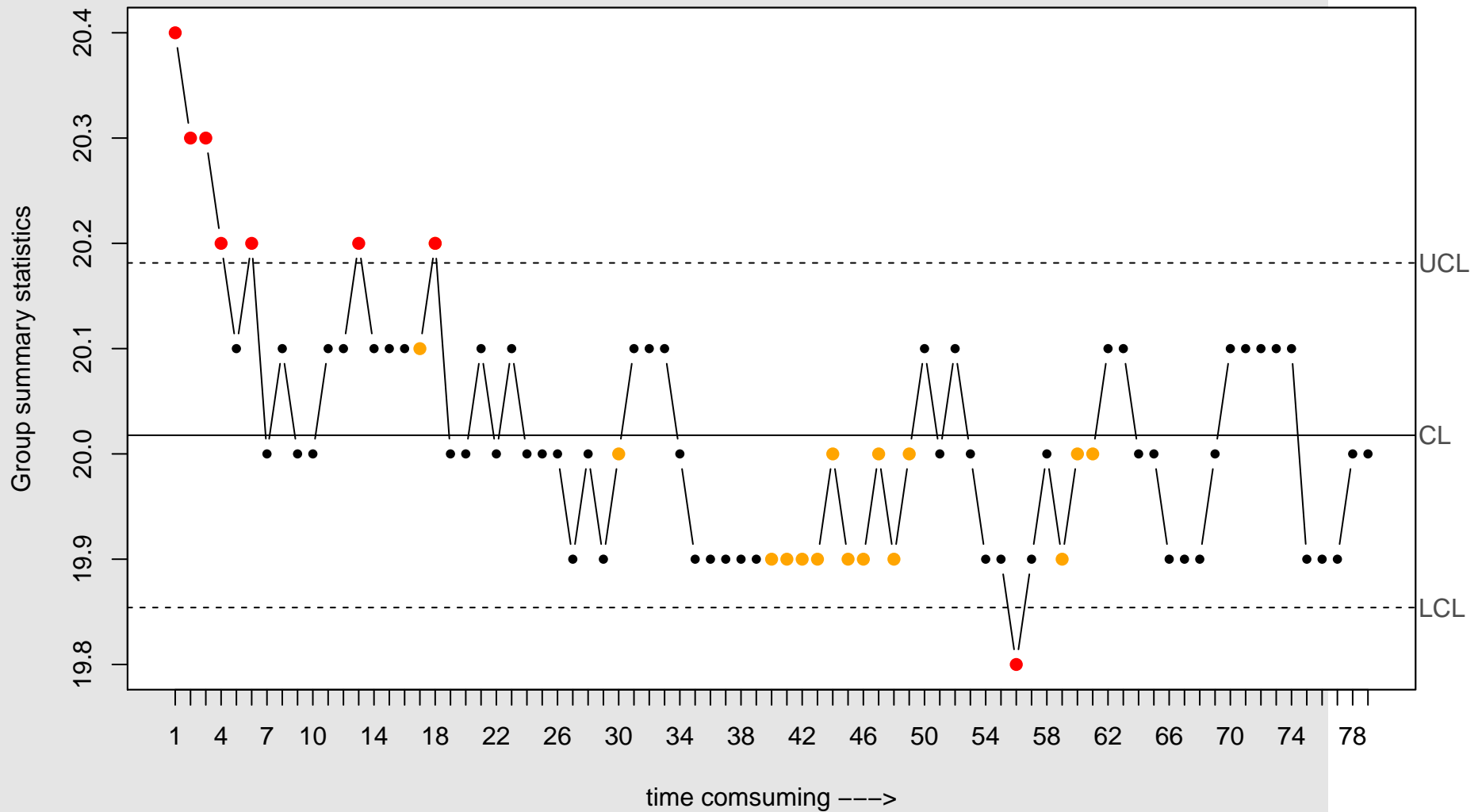


Number of groups = 79
 Center = 20.00506
 StdDev = 0.05569194

LCL = 19.83799
 UCL = 20.17214

Number beyond limits = 10
 Number violating runs = 13

22th column point of this product

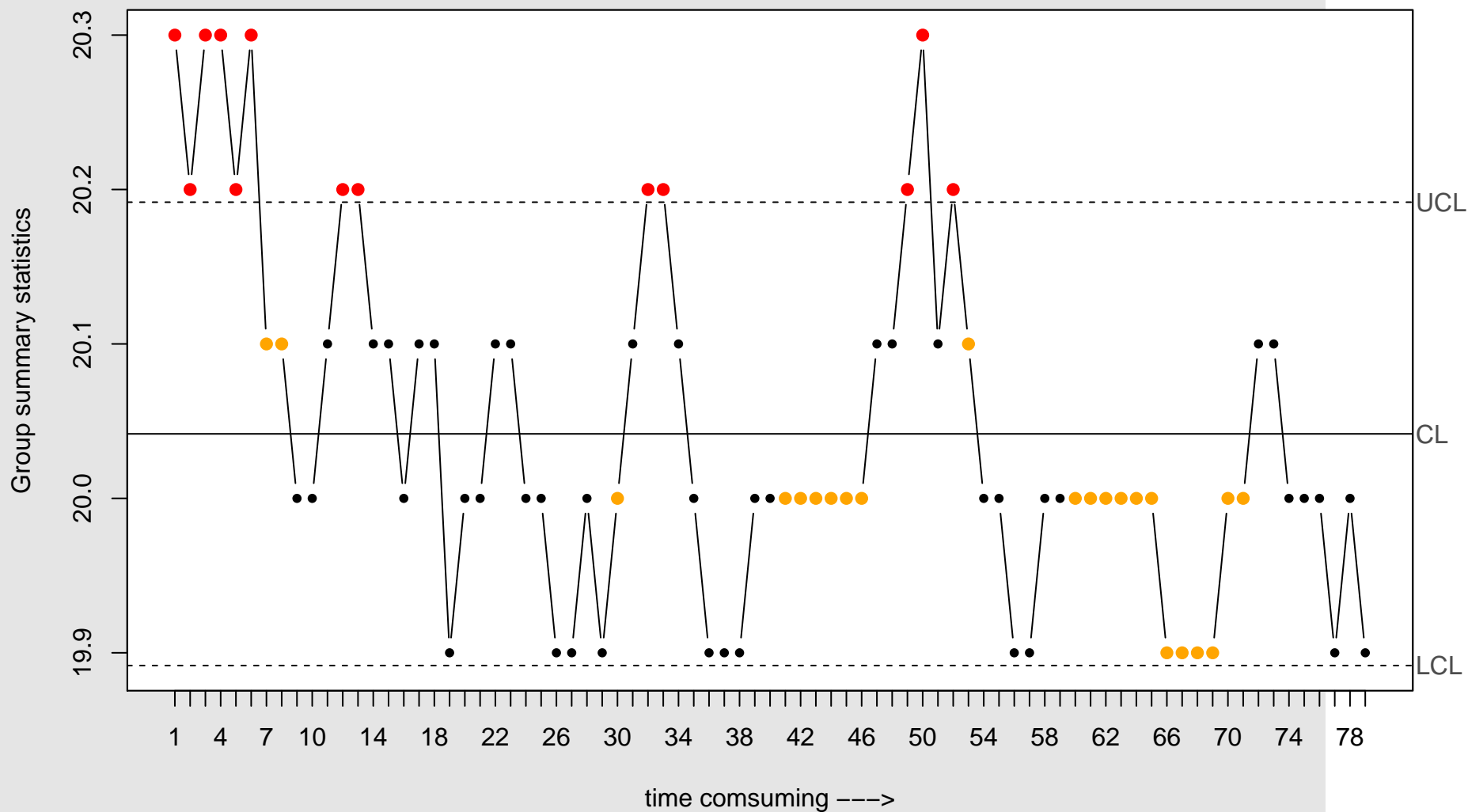


Number of groups = 79
 Center = 20.01772
 StdDev = 0.05455537

LCL = 19.85406
 UCL = 20.18139

Number beyond limits = 8
 Number violating runs = 16

23th column point of this product

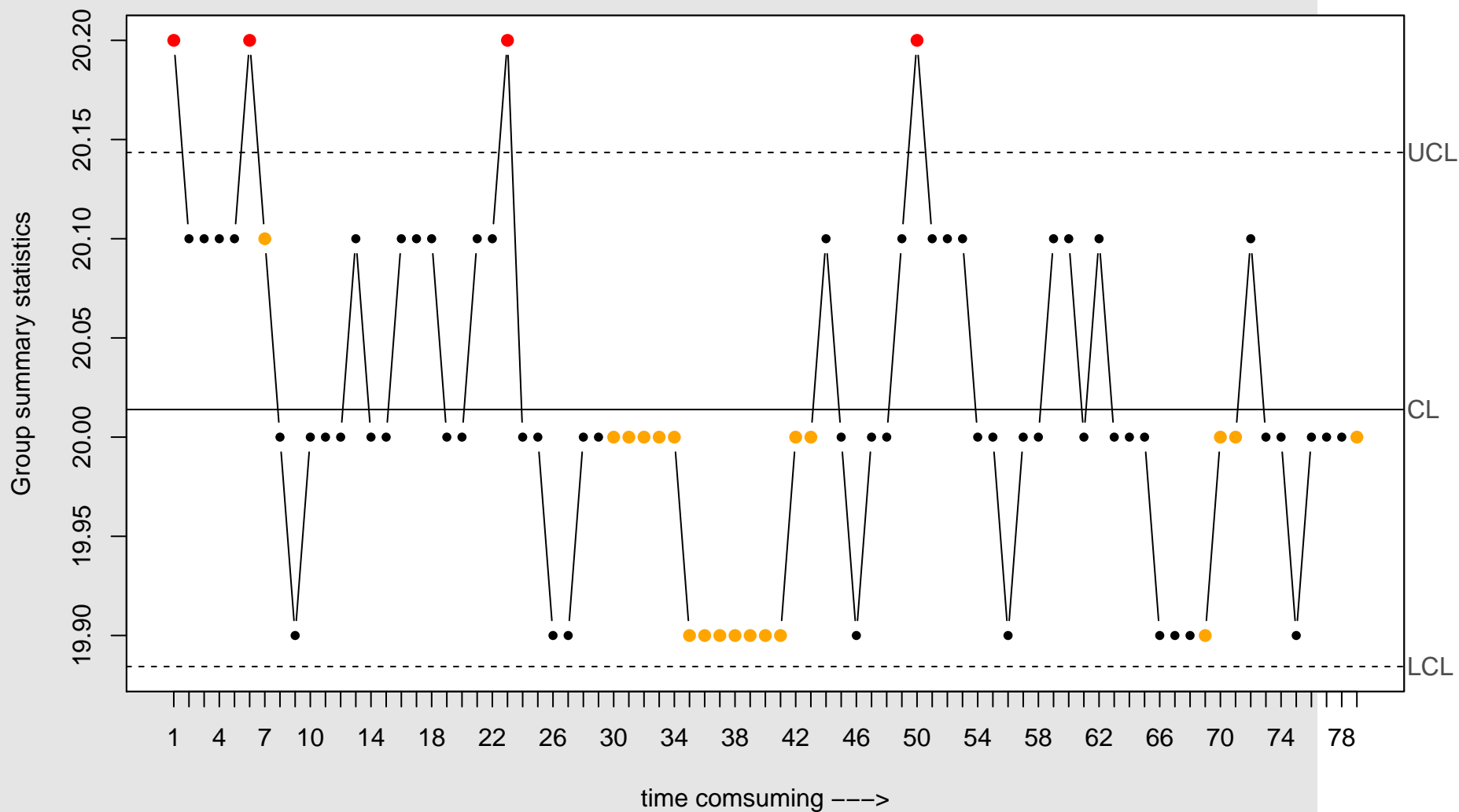


Number of groups = 79
 Center = 20.04177
 StdDev = 0.05000909

LCL = 19.89174
 UCL = 20.1918

Number beyond limits = 13
 Number violating runs = 22

24th column point of this product

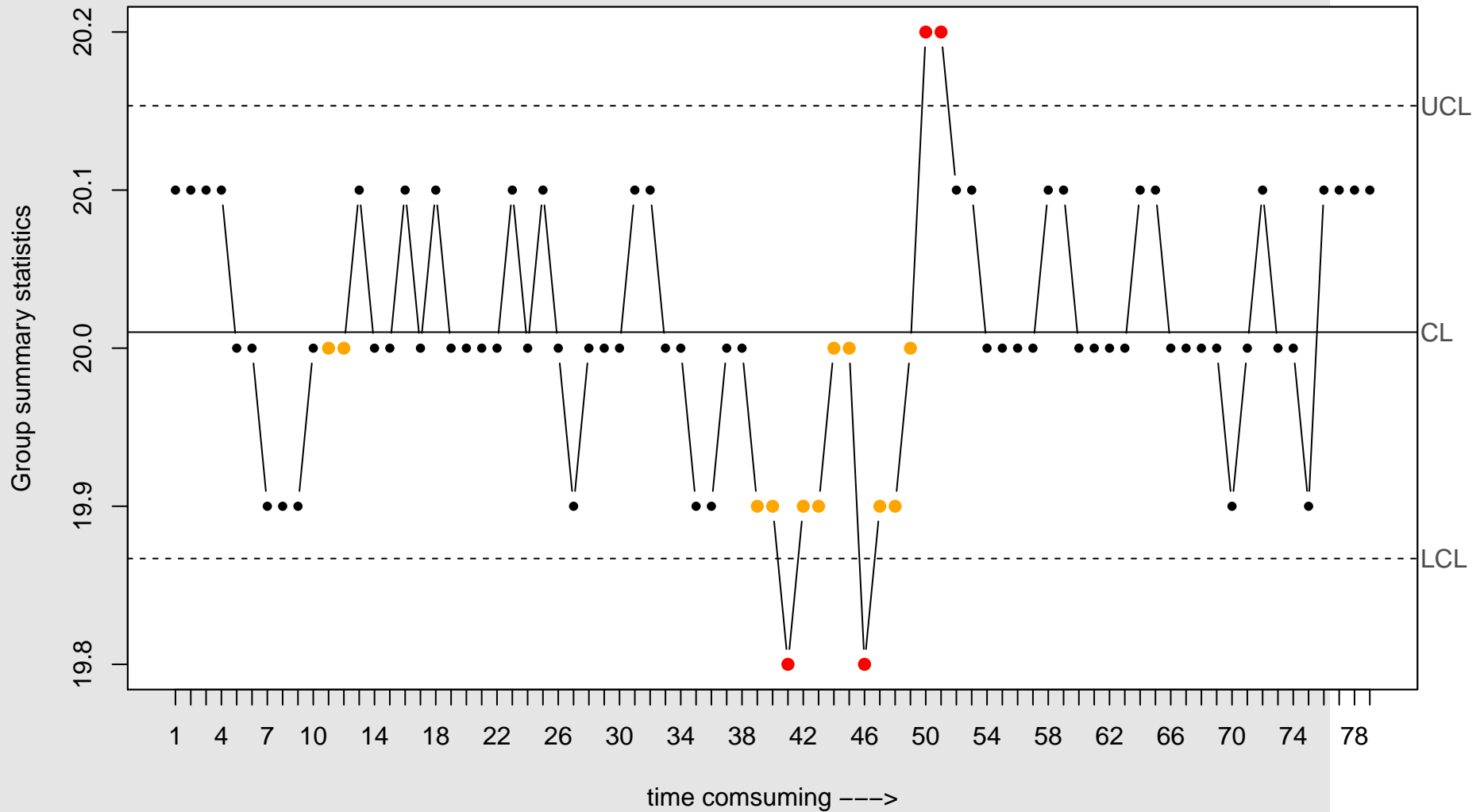


Number of groups = 79
 Center = 20.01392
 StdDev = 0.04318967

LCL = 19.88436
 UCL = 20.14349

Number beyond limits = 4
 Number violating runs = 19

25th column point of this product

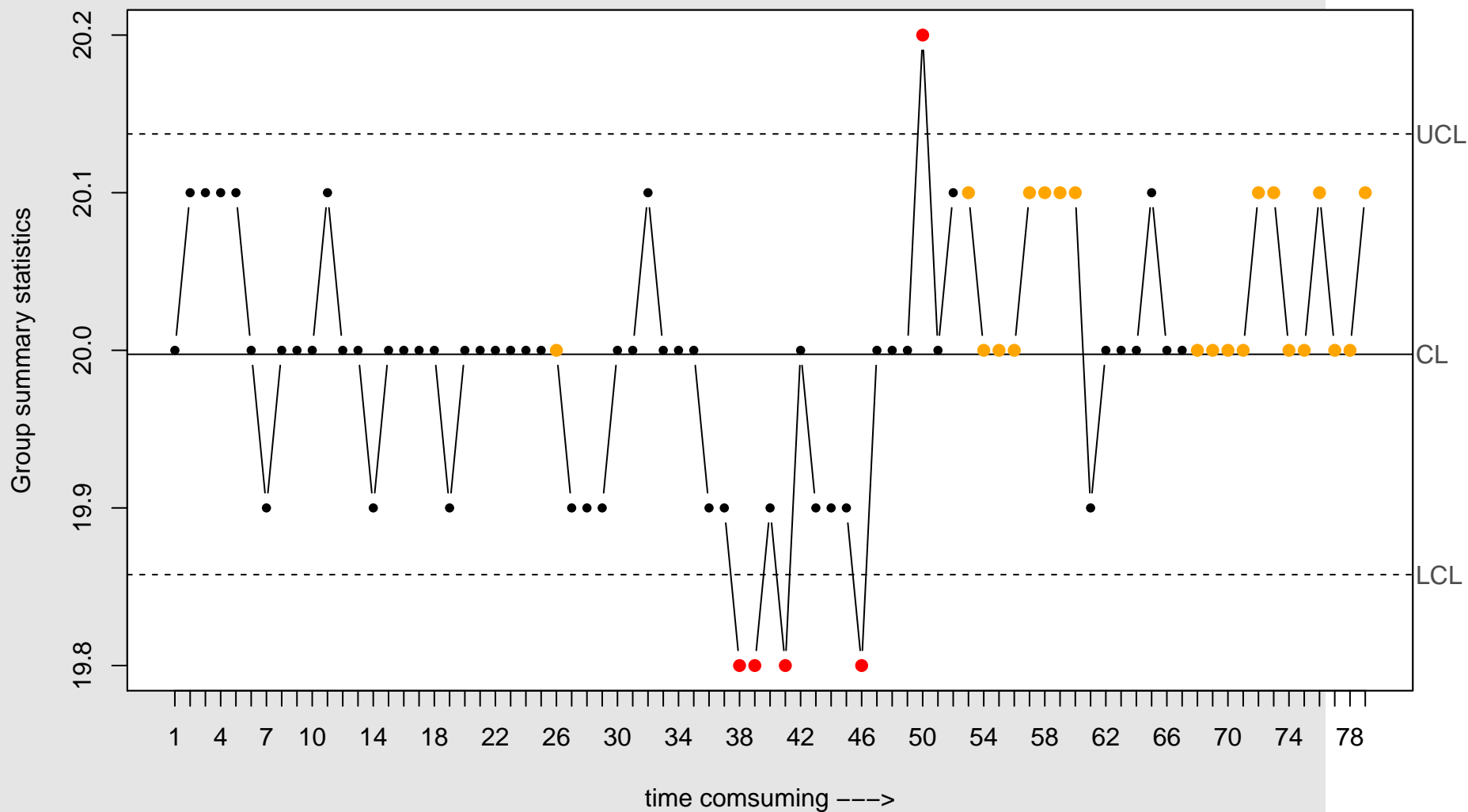


Number of groups = 79
Center = 20.01013
StdDev = 0.04773595

LCL = 19.86692
UCL = 20.15333

Number beyond limits = 4
Number violating runs = 13

26th column point of this product

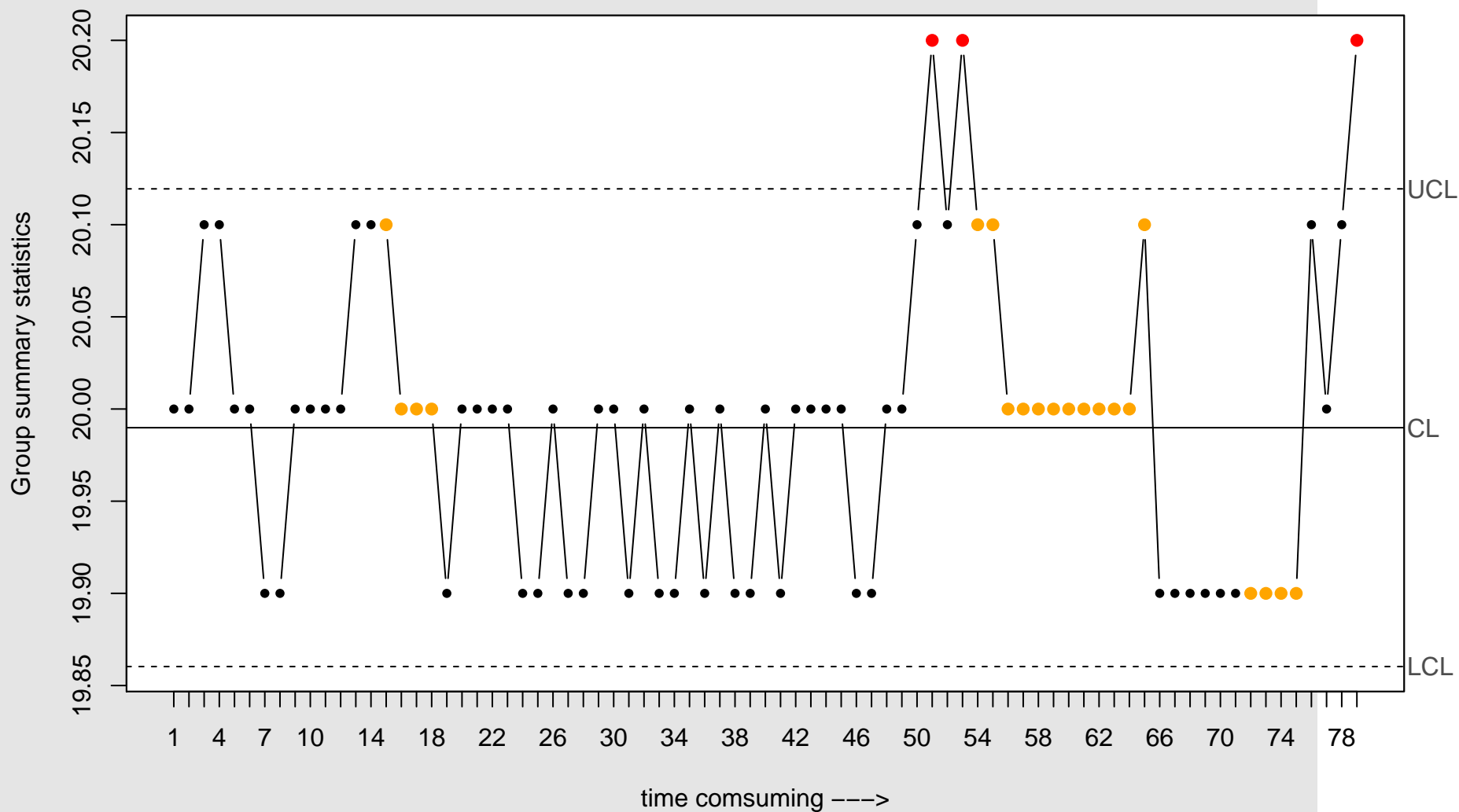


Number of groups = 79
 Center = 19.99747
 StdDev = 0.04659938

LCL = 19.85767
 UCL = 20.13727

Number beyond limits = 5
 Number violating runs = 21

27th column point of this product

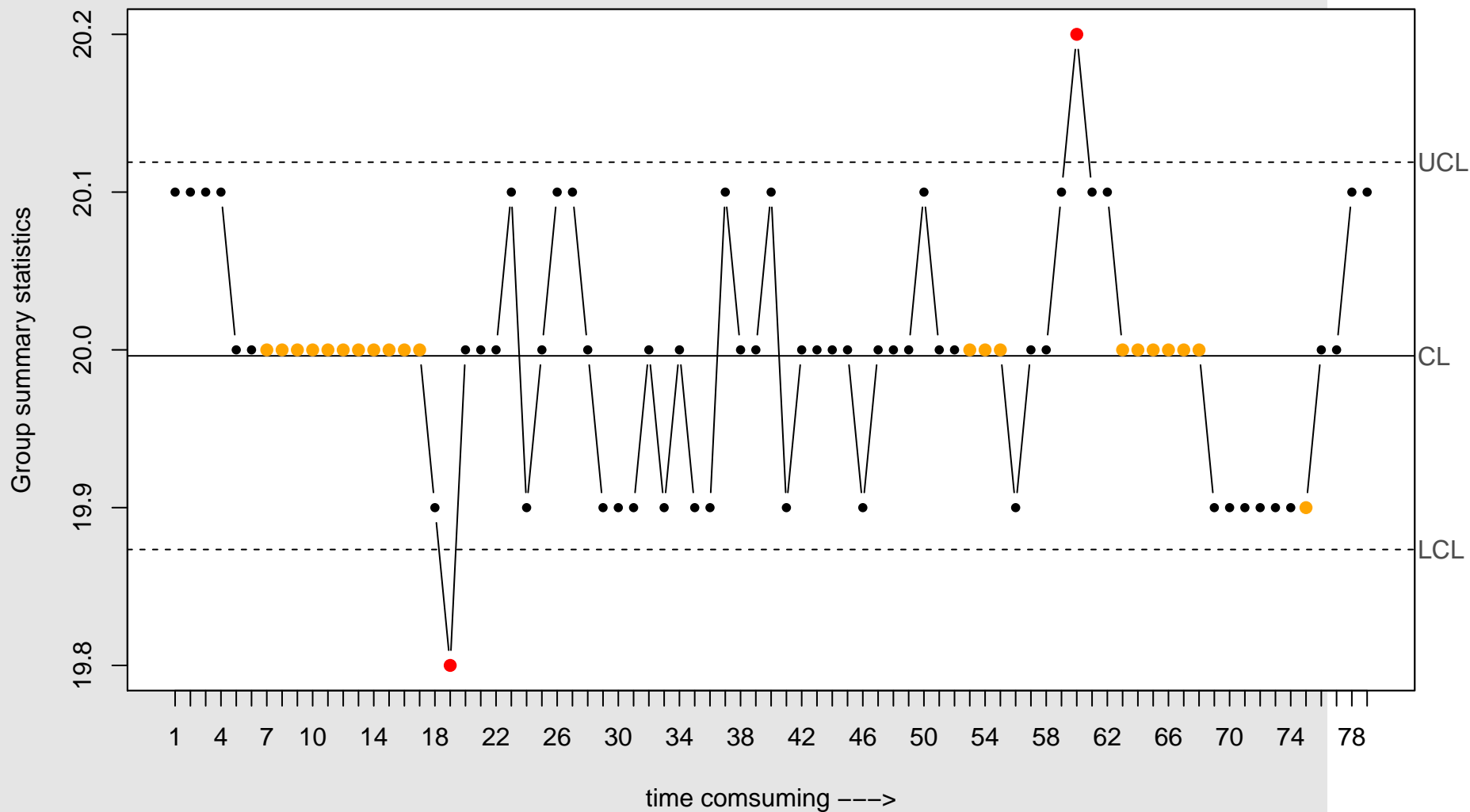


Number of groups = 79
 Center = 19.98987
 StdDev = 0.04318967

LCL = 19.8603
 UCL = 20.11944

Number beyond limits = 3
 Number violating runs = 20

28th column point of this product

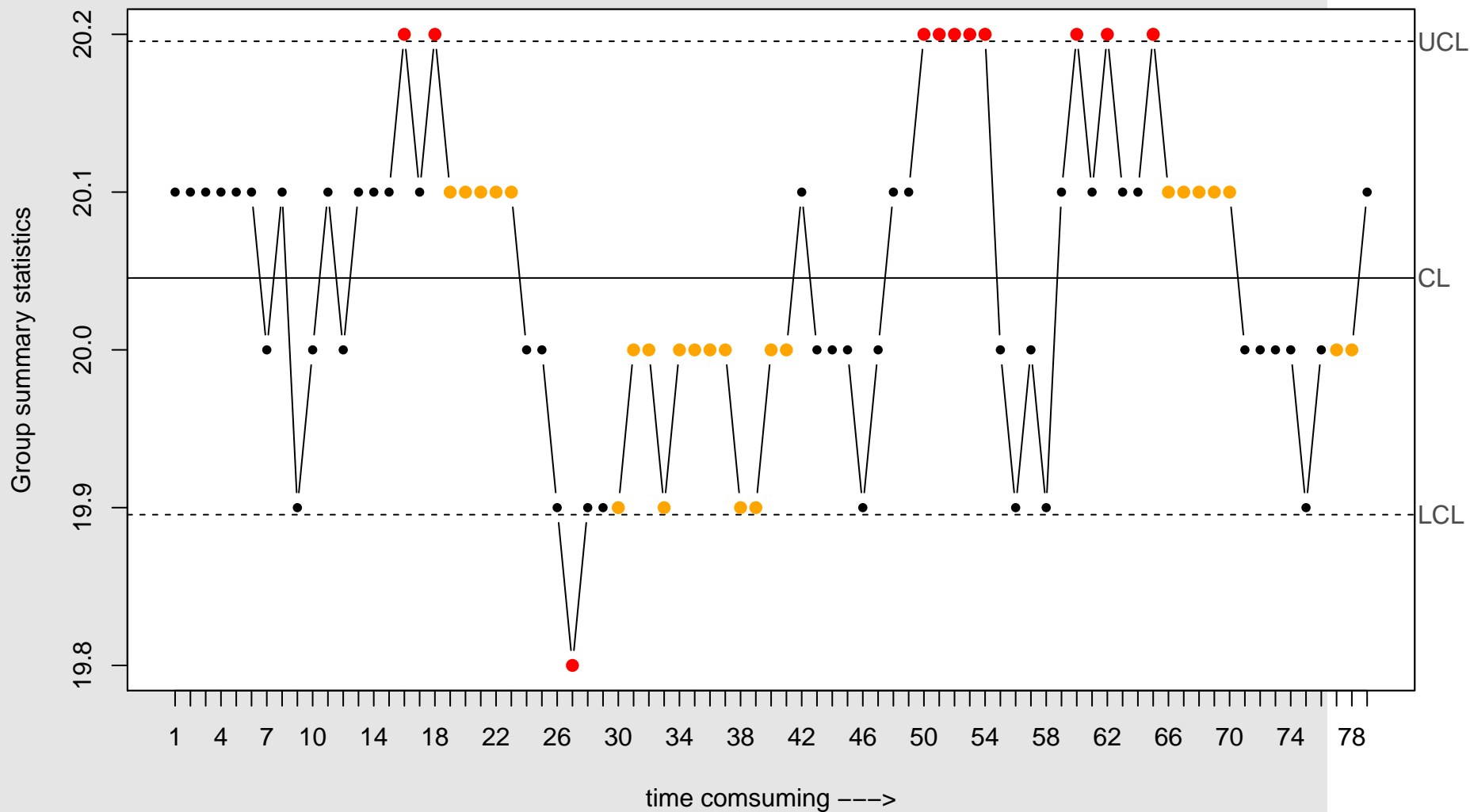


Number of groups = 79
Center = 19.9962
StdDev = 0.04091653

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

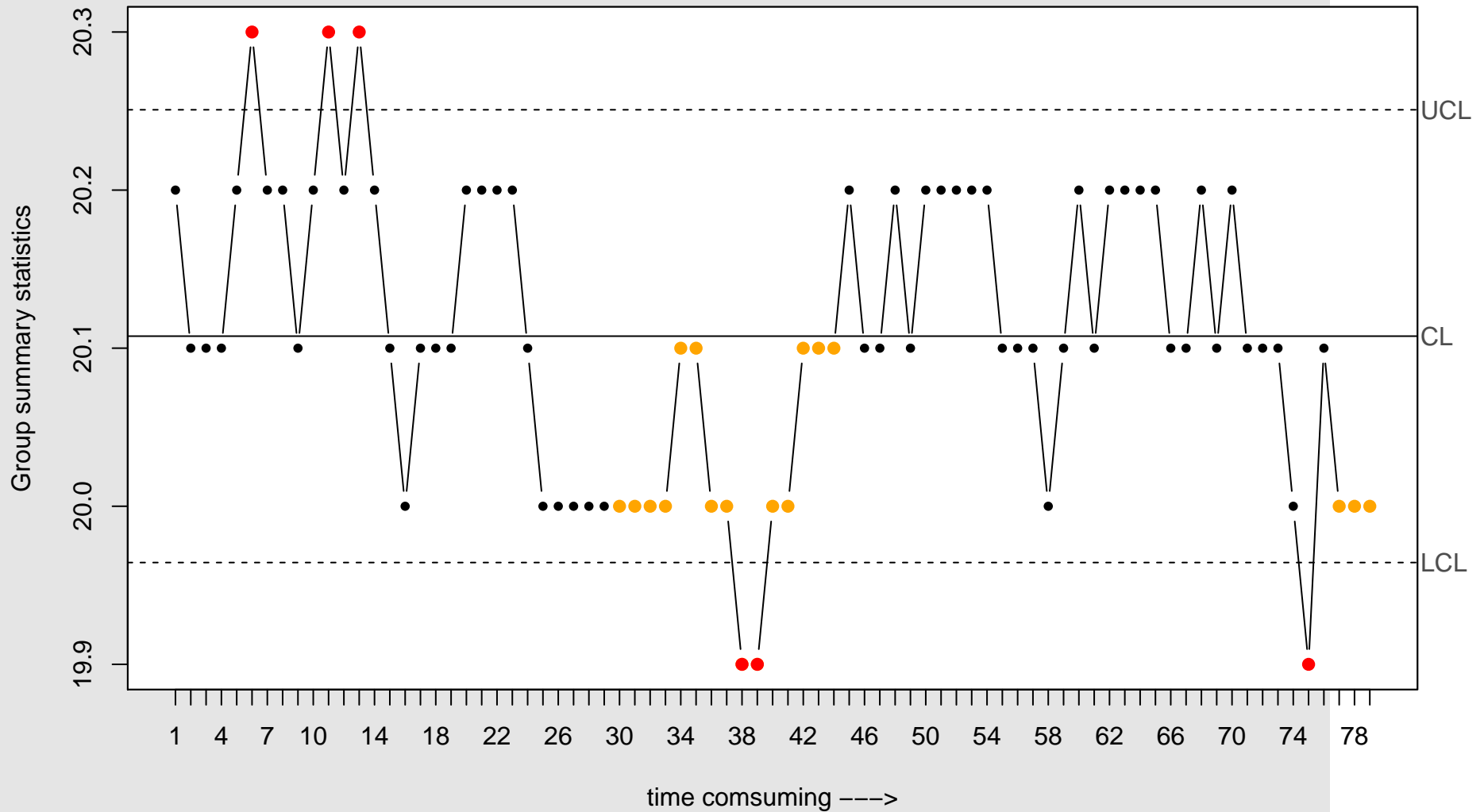
LCL = 19.89554

UCL = 20.1956

Number beyond limits = 11

Number violating runs = 26

30th column point of this product

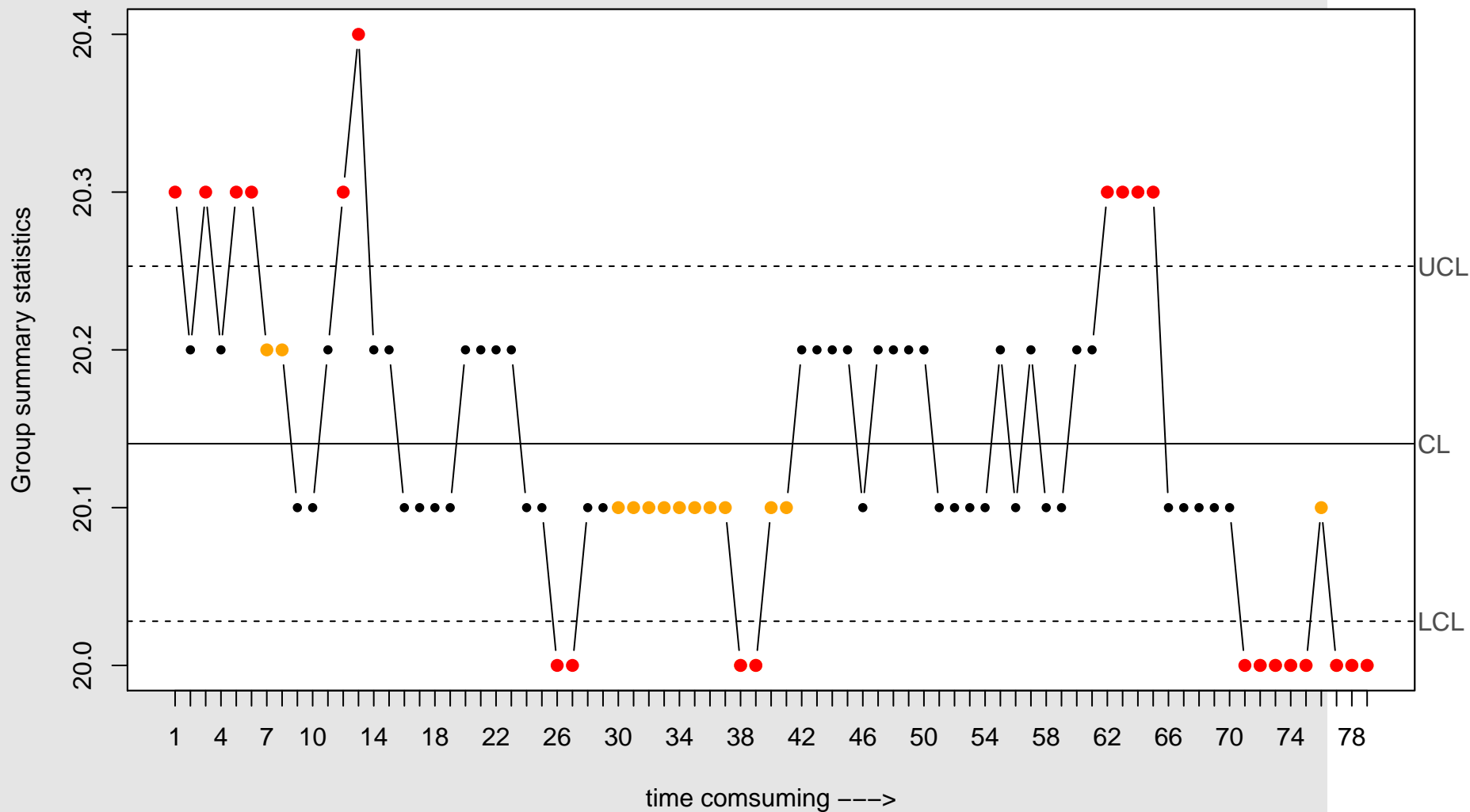


Number of groups = 79
 Center = 20.10759
 StdDev = 0.04773595

LCL = 19.96439
 UCL = 20.2508

Number beyond limits = 6
 Number violating runs = 18

31th column point of this product

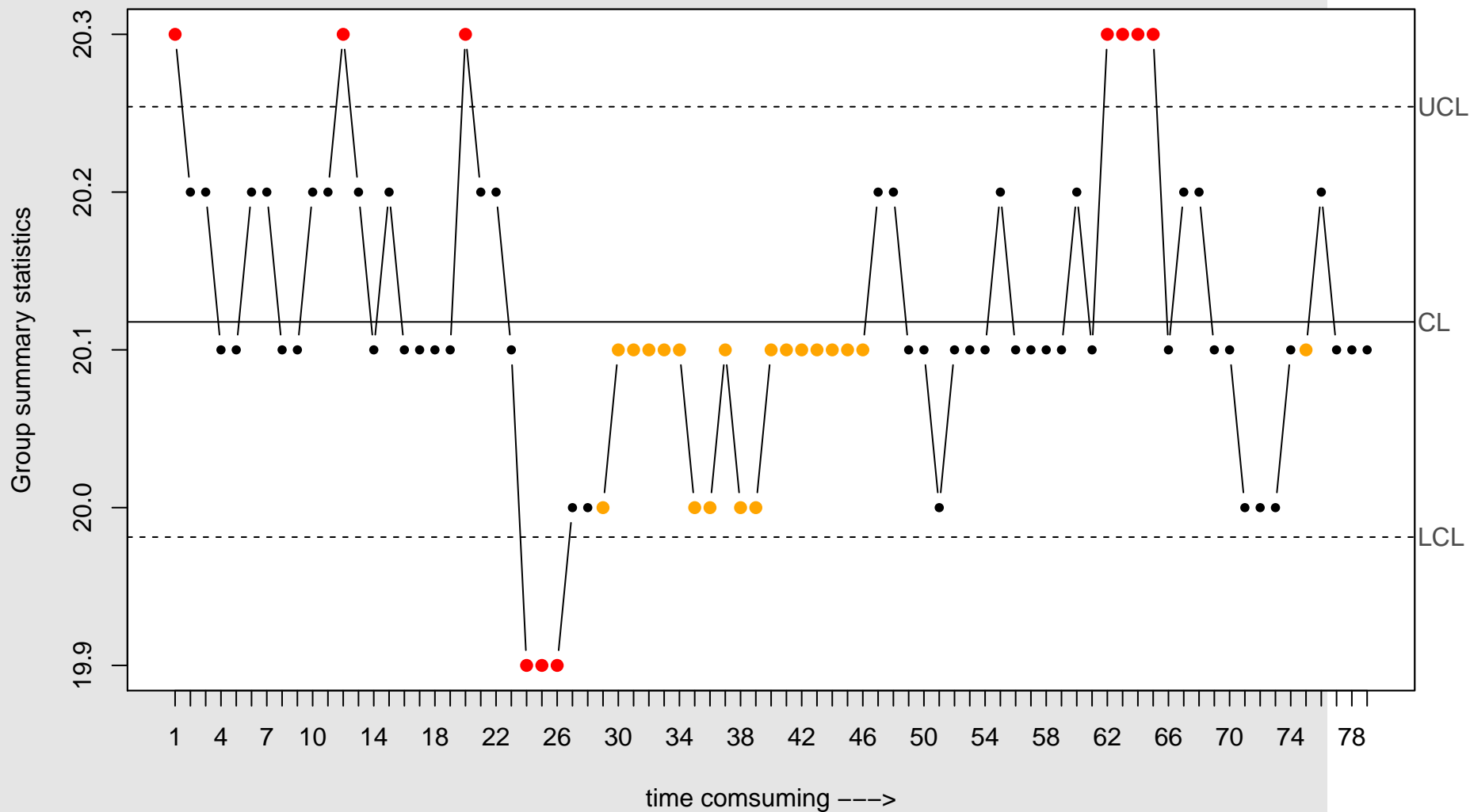


Number of groups = 79
Center = 20.14051
StdDev = 0.03750682

LCL = 20.02799
UCL = 20.25303

Number beyond limits = 22
Number violating runs = 22

32th column point of this product

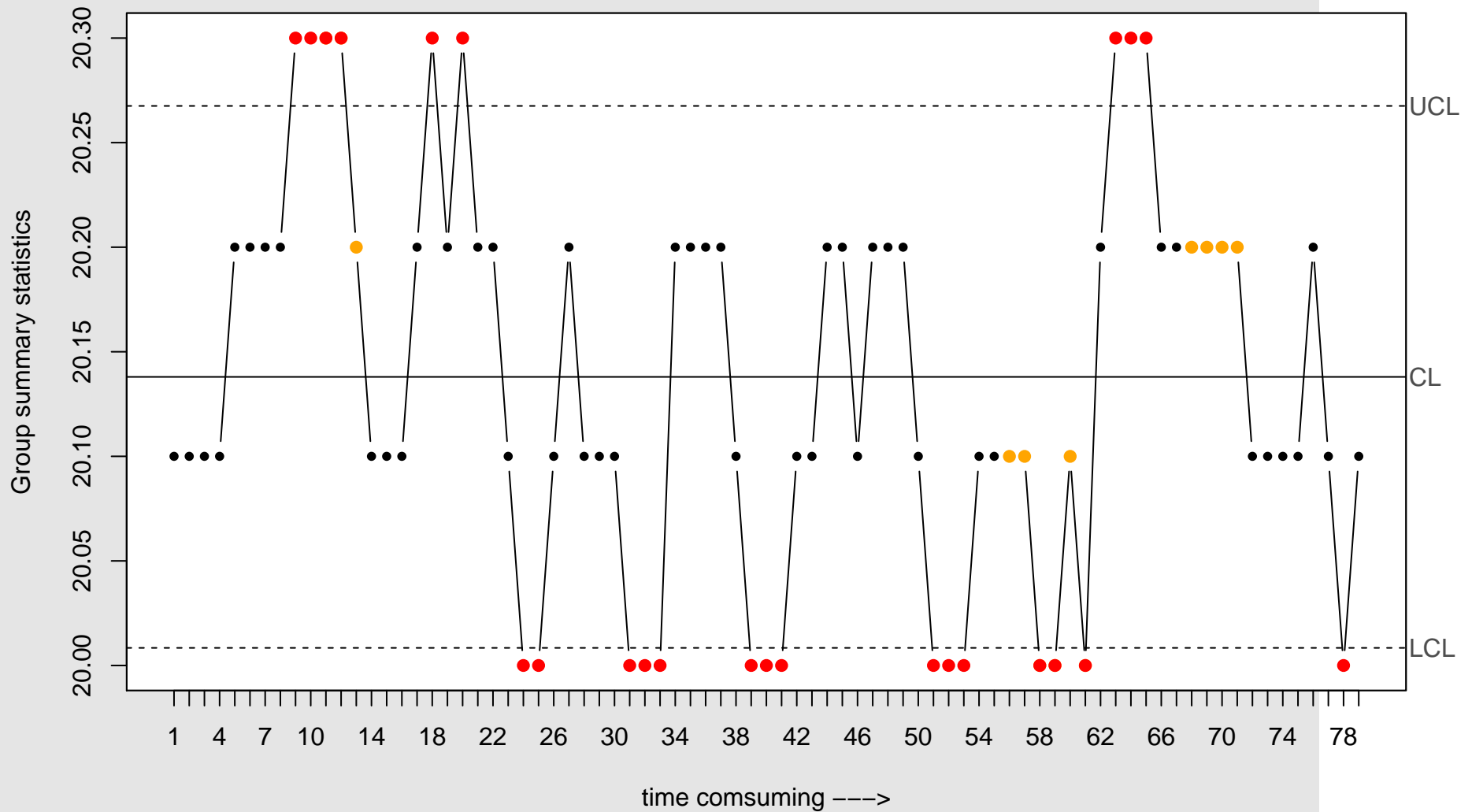


Number of groups = 79
Center = 20.11772
StdDev = 0.04546281

LCL = 19.98133
UCL = 20.25411

Number beyond limits = 10
Number violating runs = 19

33th column point of this product

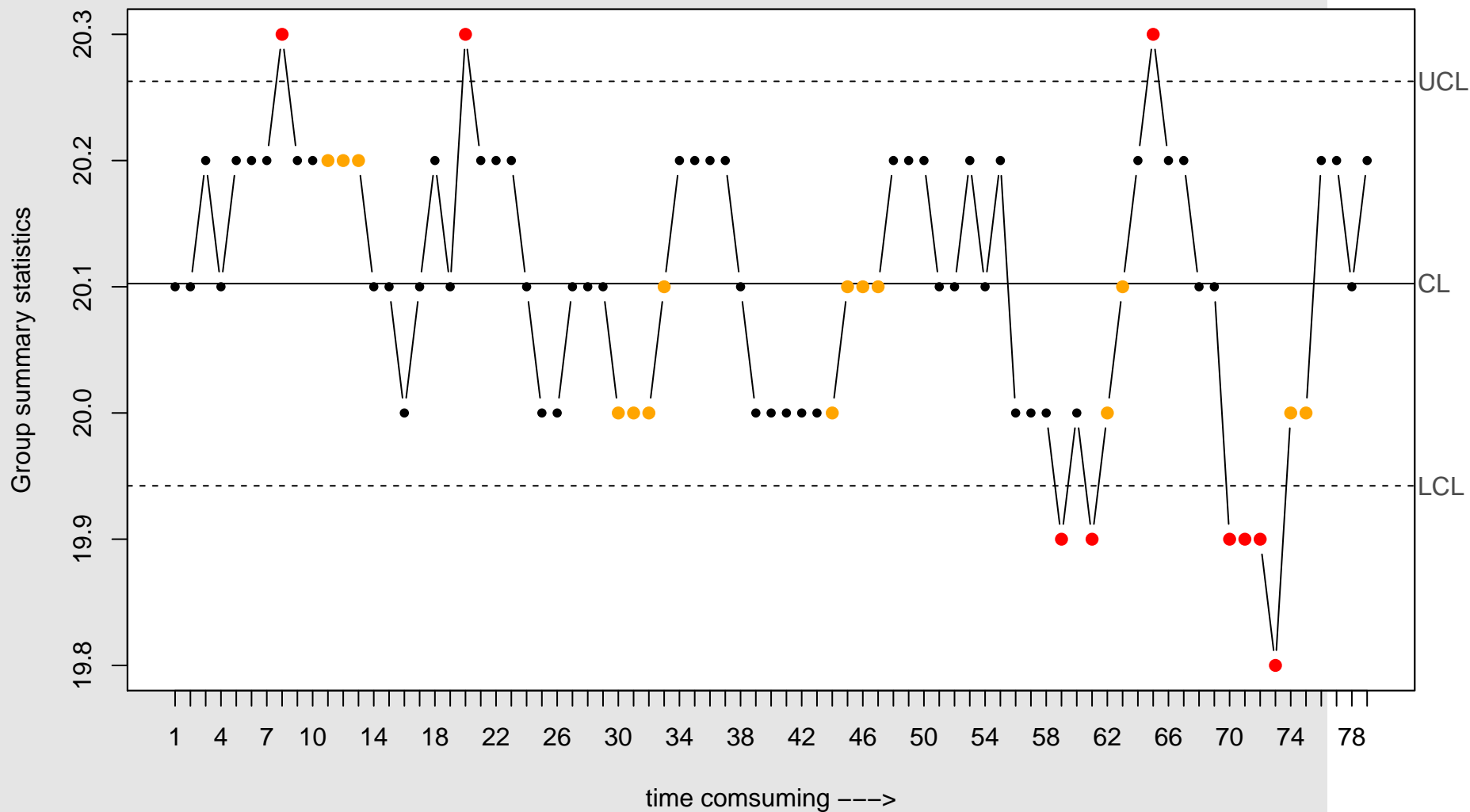


Number of groups = 79
Center = 20.13797
StdDev = 0.04318967

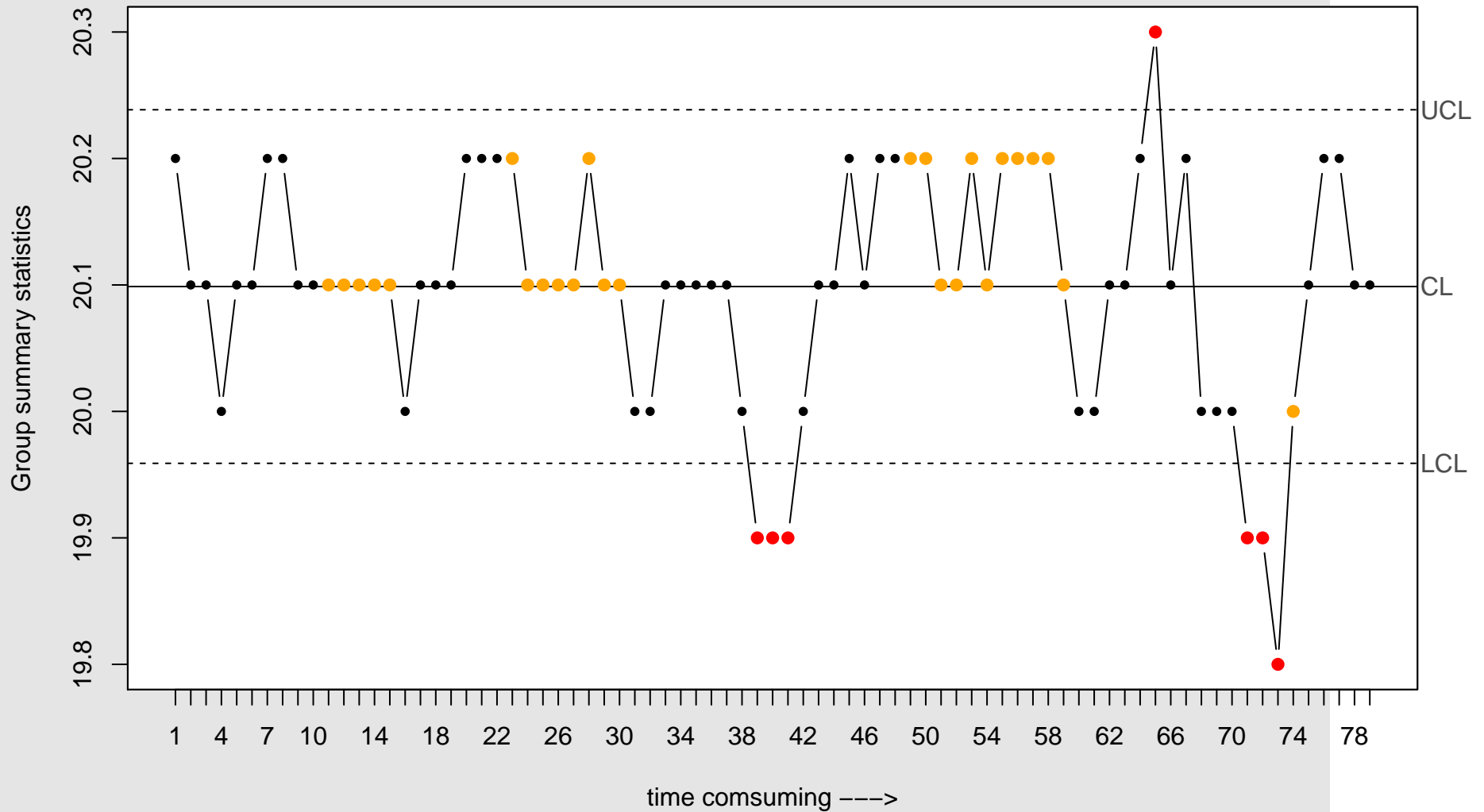
LCL = 20.00841
UCL = 20.26754

Number beyond limits = 24
Number violating runs = 13

34th column point of this product



35th column point of this product

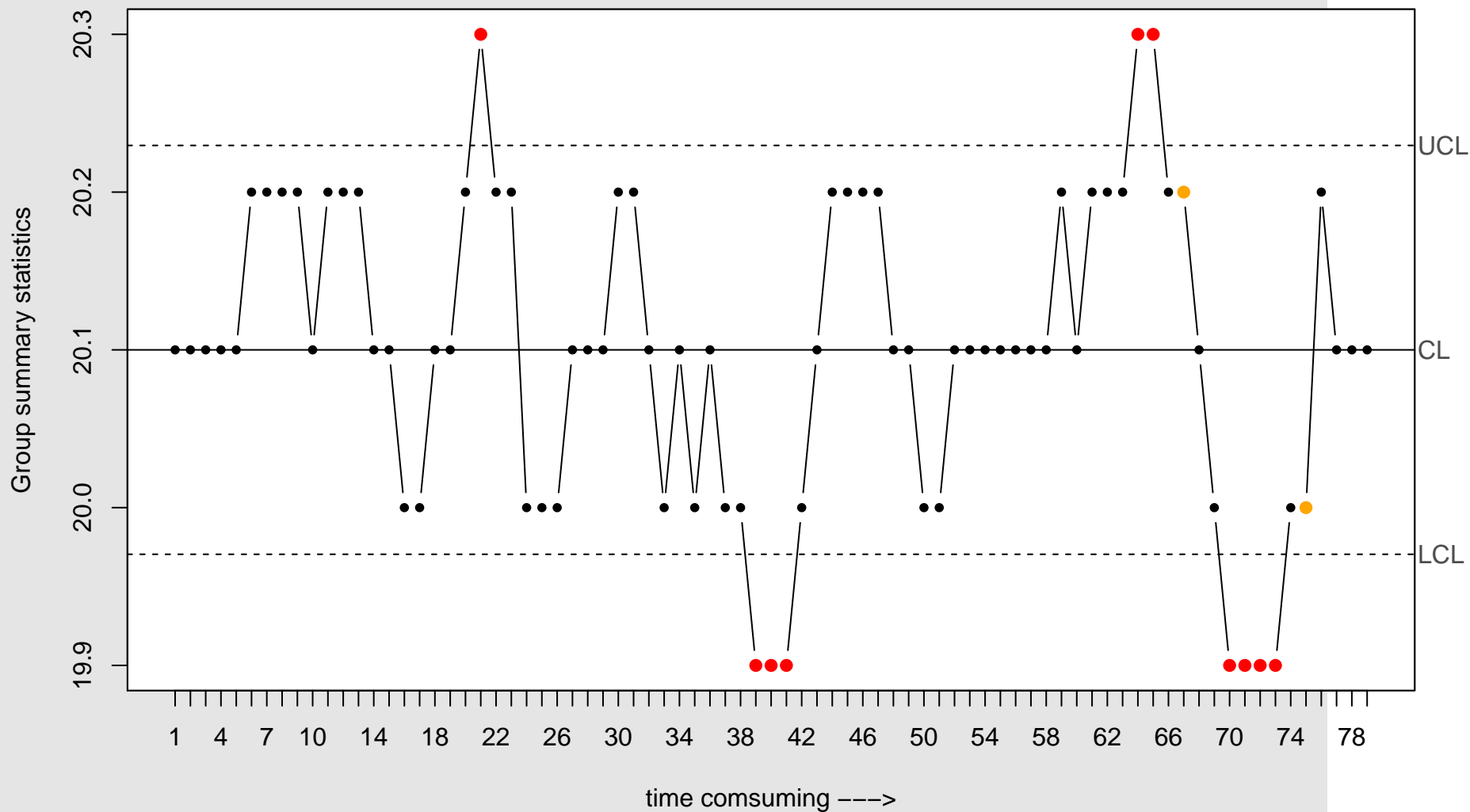


Number of groups = 79
 Center = 20.09873
 StdDev = 0.04659938

LCL = 19.95894
 UCL = 20.23853

Number beyond limits = 7
 Number violating runs = 25

36th column point of this product

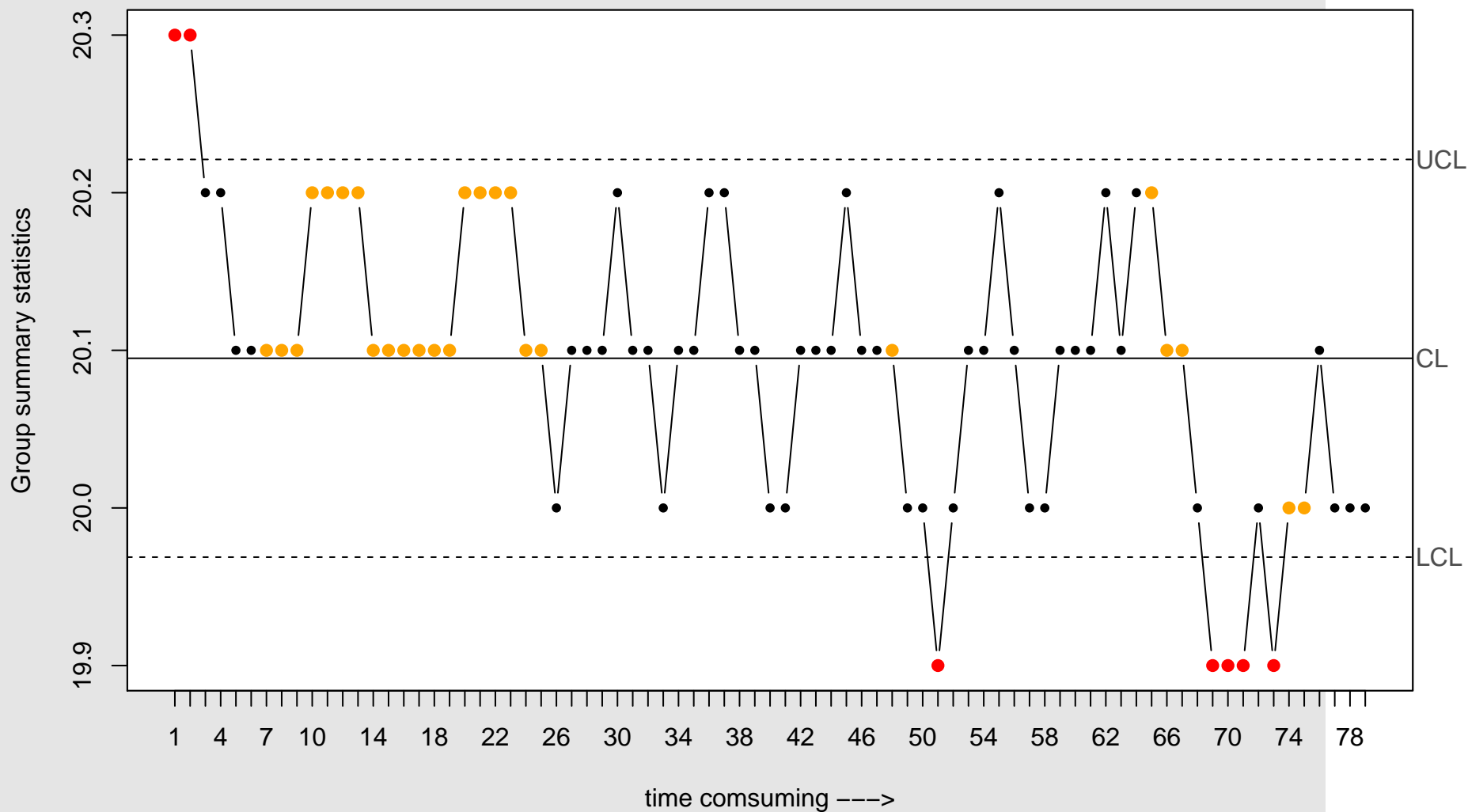


Number of groups = 79
Center = 20.1
StdDev = 0.04318967

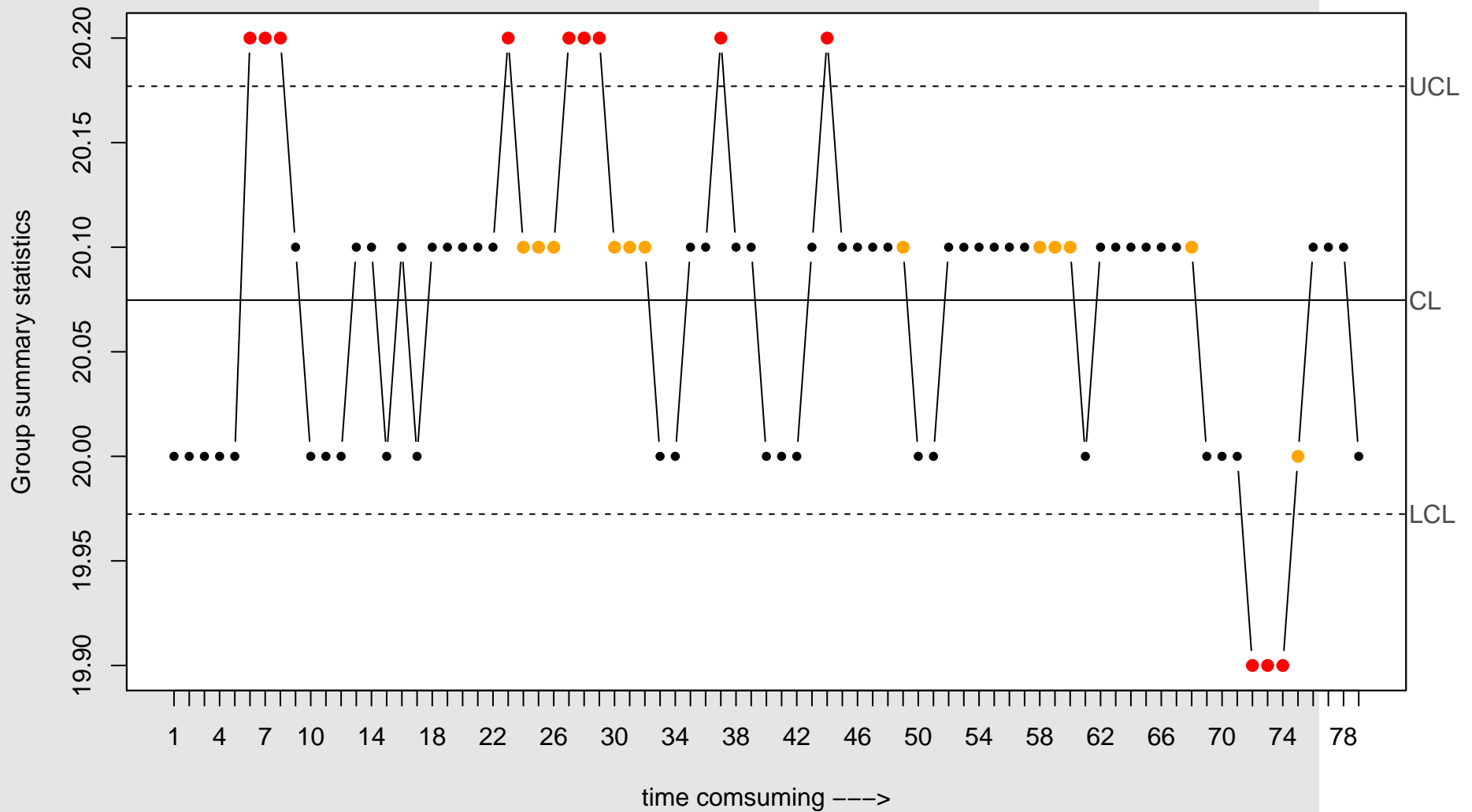
LCL = 19.97043
UCL = 20.22957

Number beyond limits = 10
Number violating runs = 2

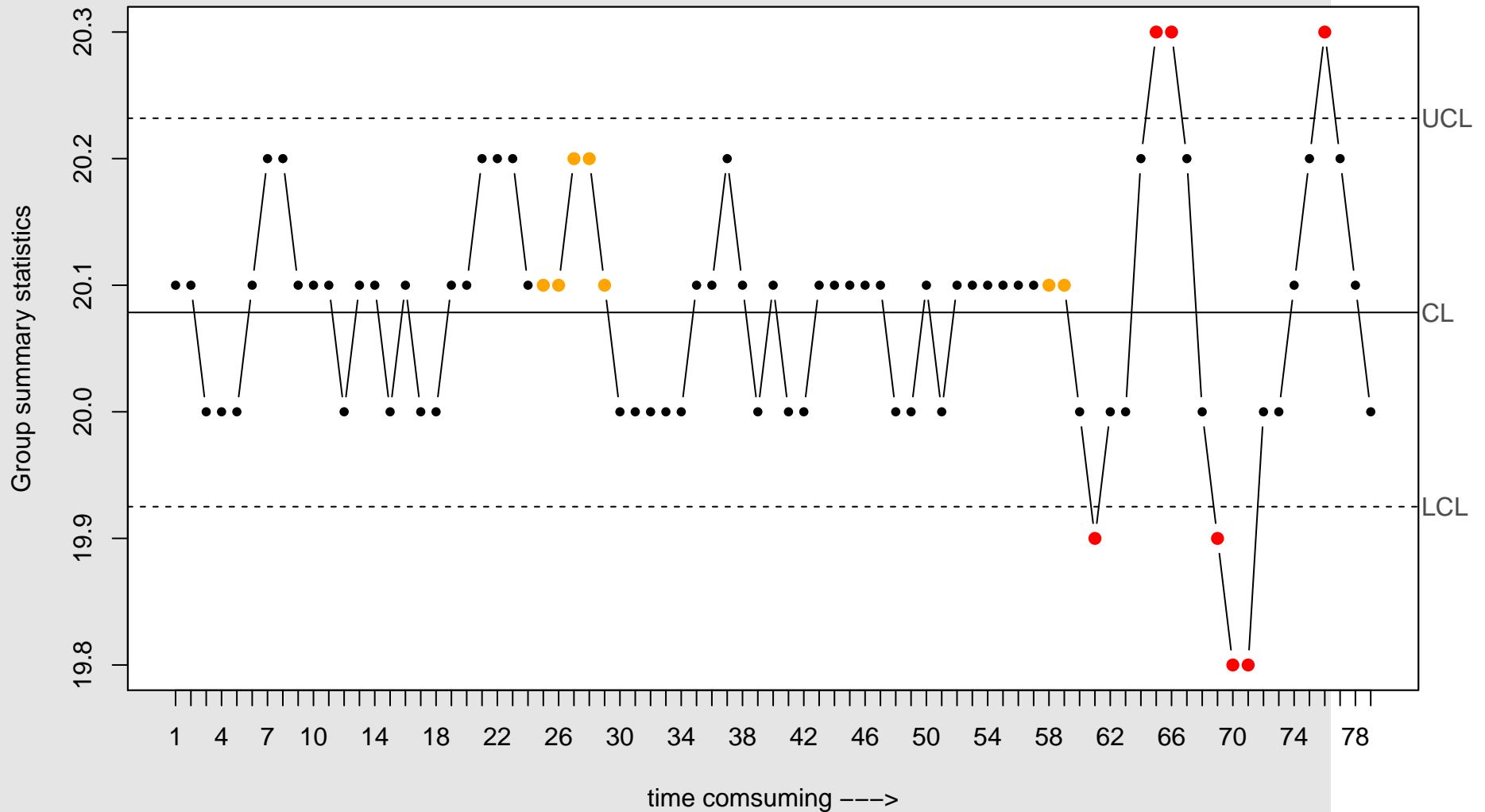
37th column point of this product



38th column point of this product



39th column point of this product

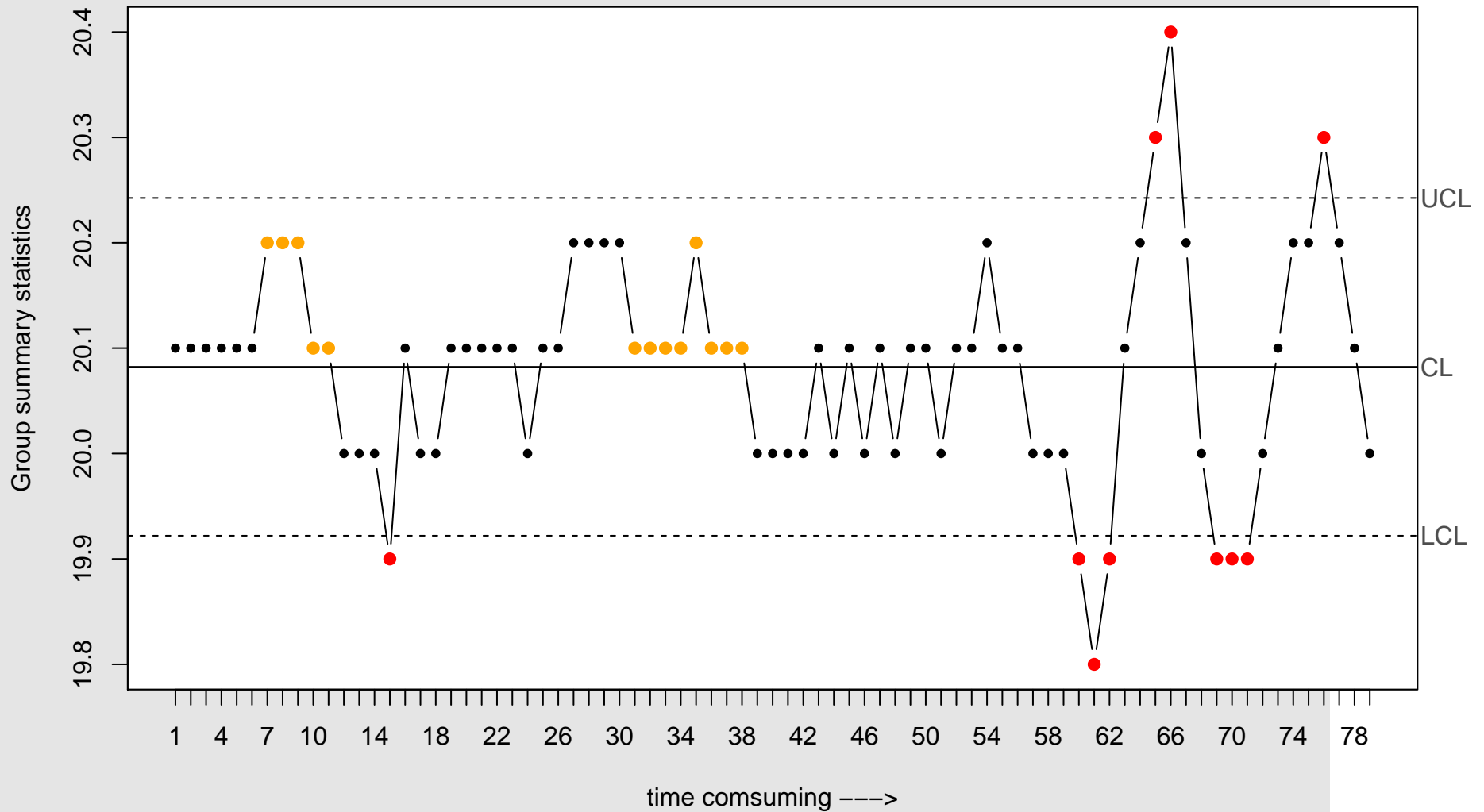


Number of groups = 79
 Center = 20.07848
 StdDev = 0.05114566

LCL = 19.92504
 UCL = 20.23192

Number beyond limits = 7
 Number violating runs = 7

40th column point of this product

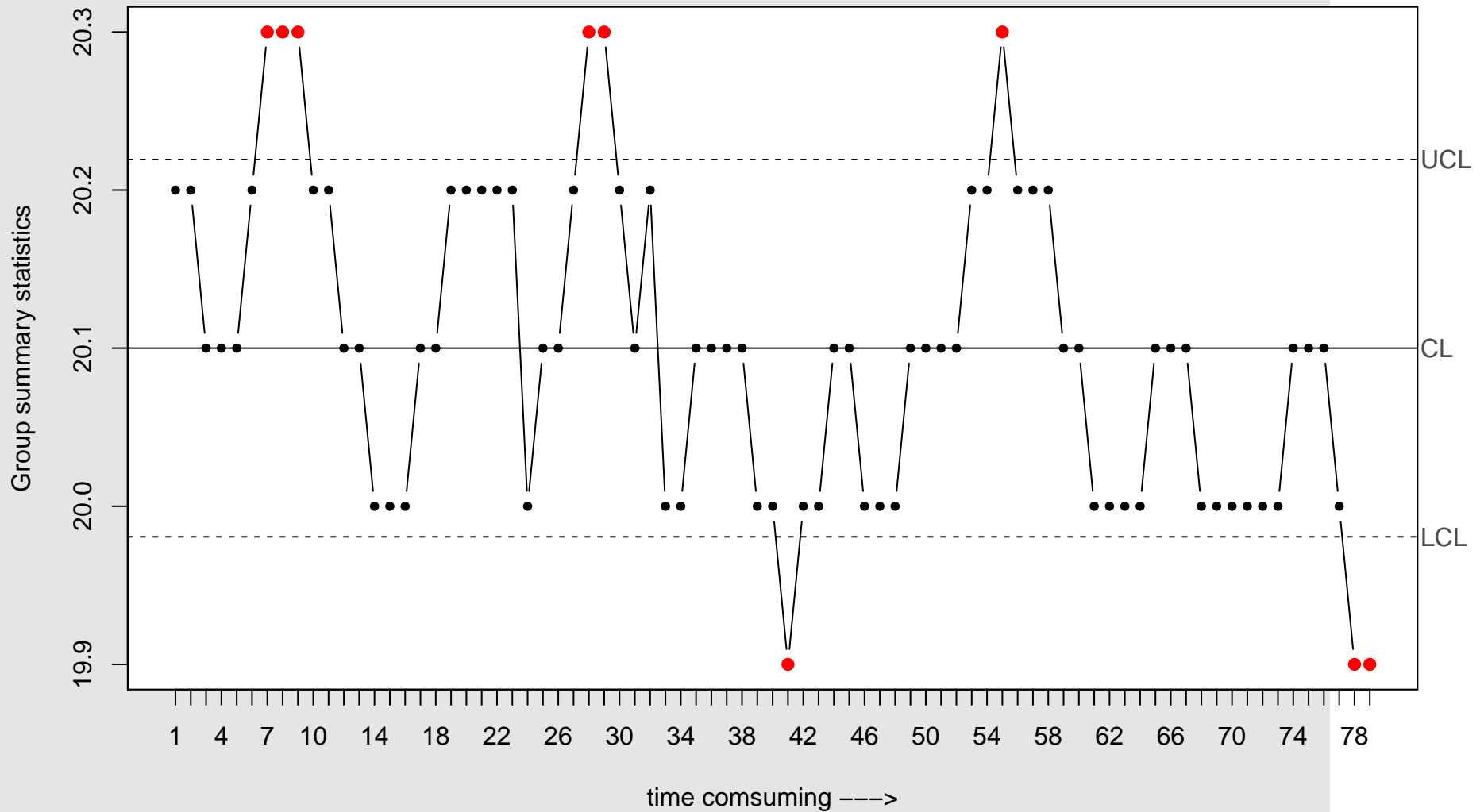


Number of groups = 79
Center = 20.08228
StdDev = 0.0534188

LCL = 19.92202
UCL = 20.24253

Number beyond limits = 10
Number violating runs = 13

41th column point of this product

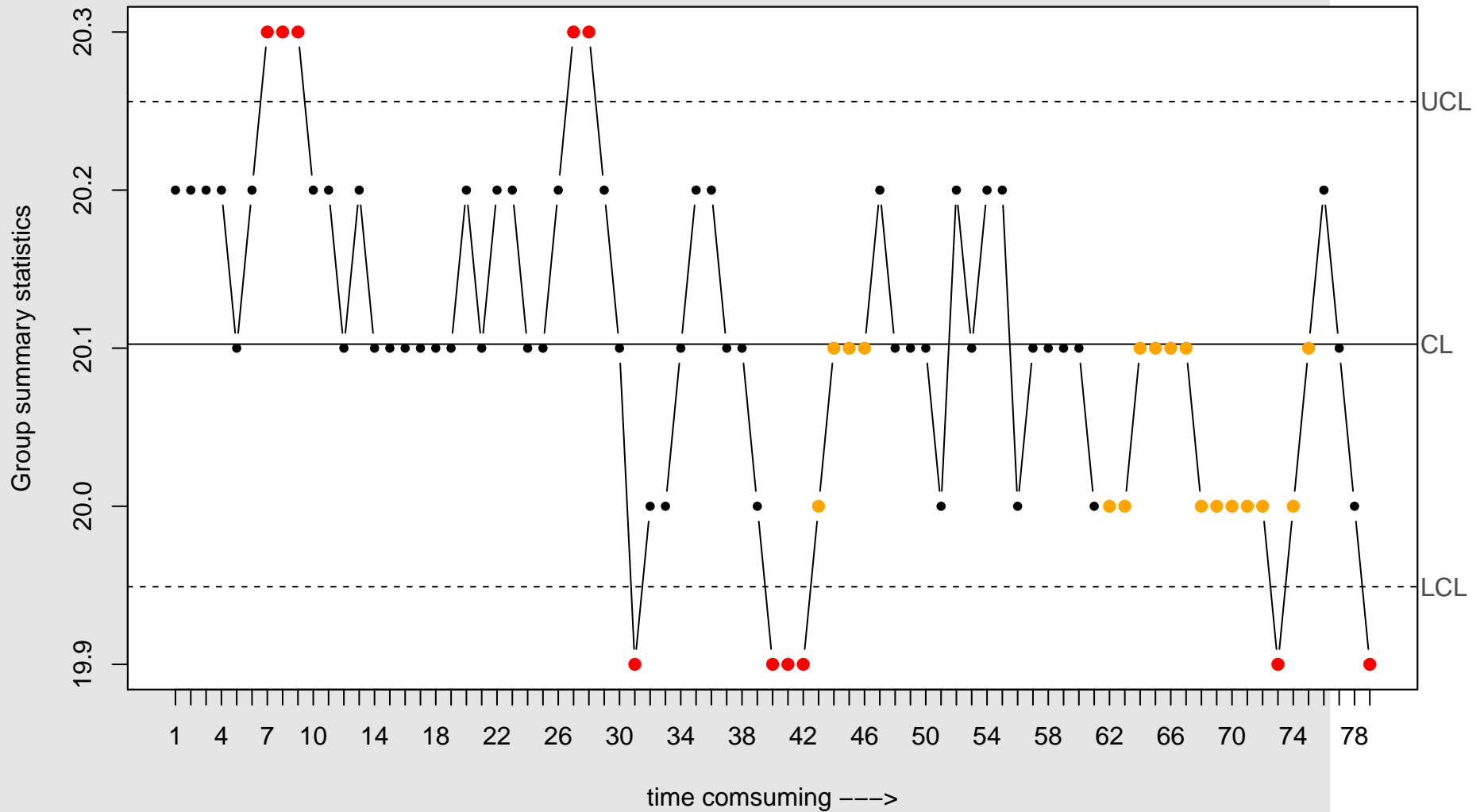


Number of groups = 79
 Center = 20.1
 StdDev = 0.03977996

LCL = 19.98066
 UCL = 20.21934

Number beyond limits = 9
 Number violating runs = 0

42th column point of this product

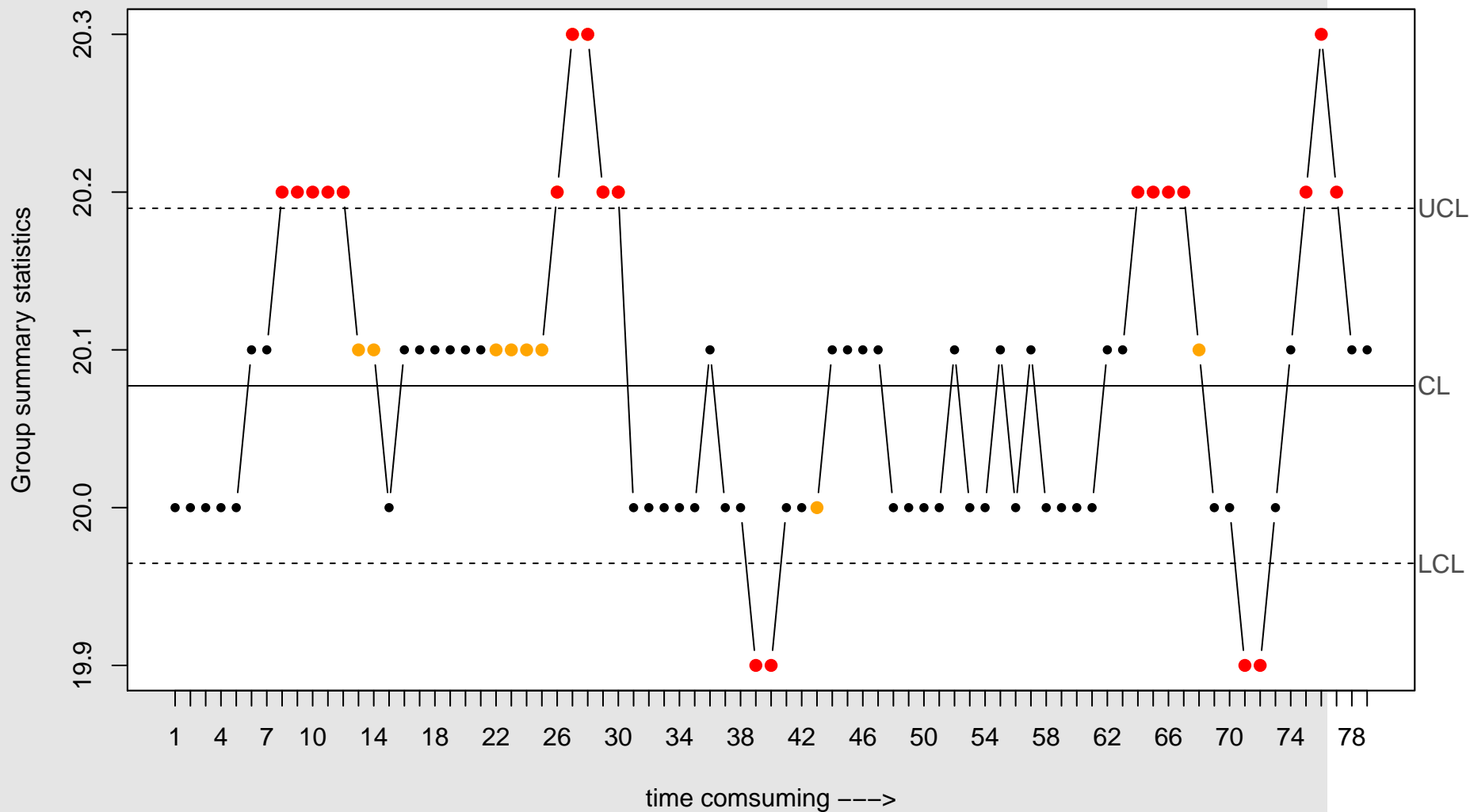


Number of groups = 79
 Center = 20.10253
 StdDev = 0.05114566

LCL = 19.94909
 UCL = 20.25597

Number beyond limits = 11
 Number violating runs = 18

43th column point of this product

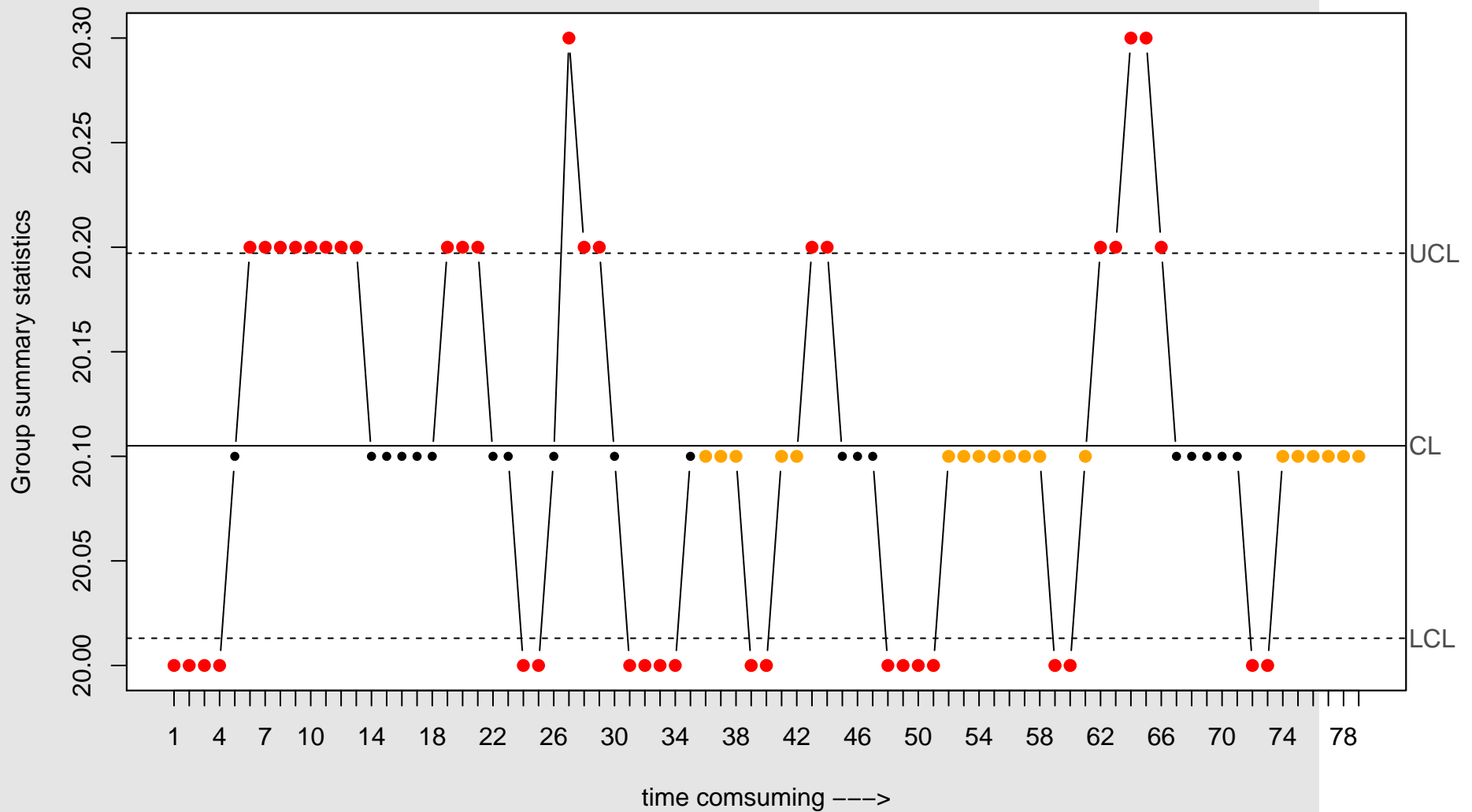


Number of groups = 79
 Center = 20.07722
 StdDev = 0.03750682

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

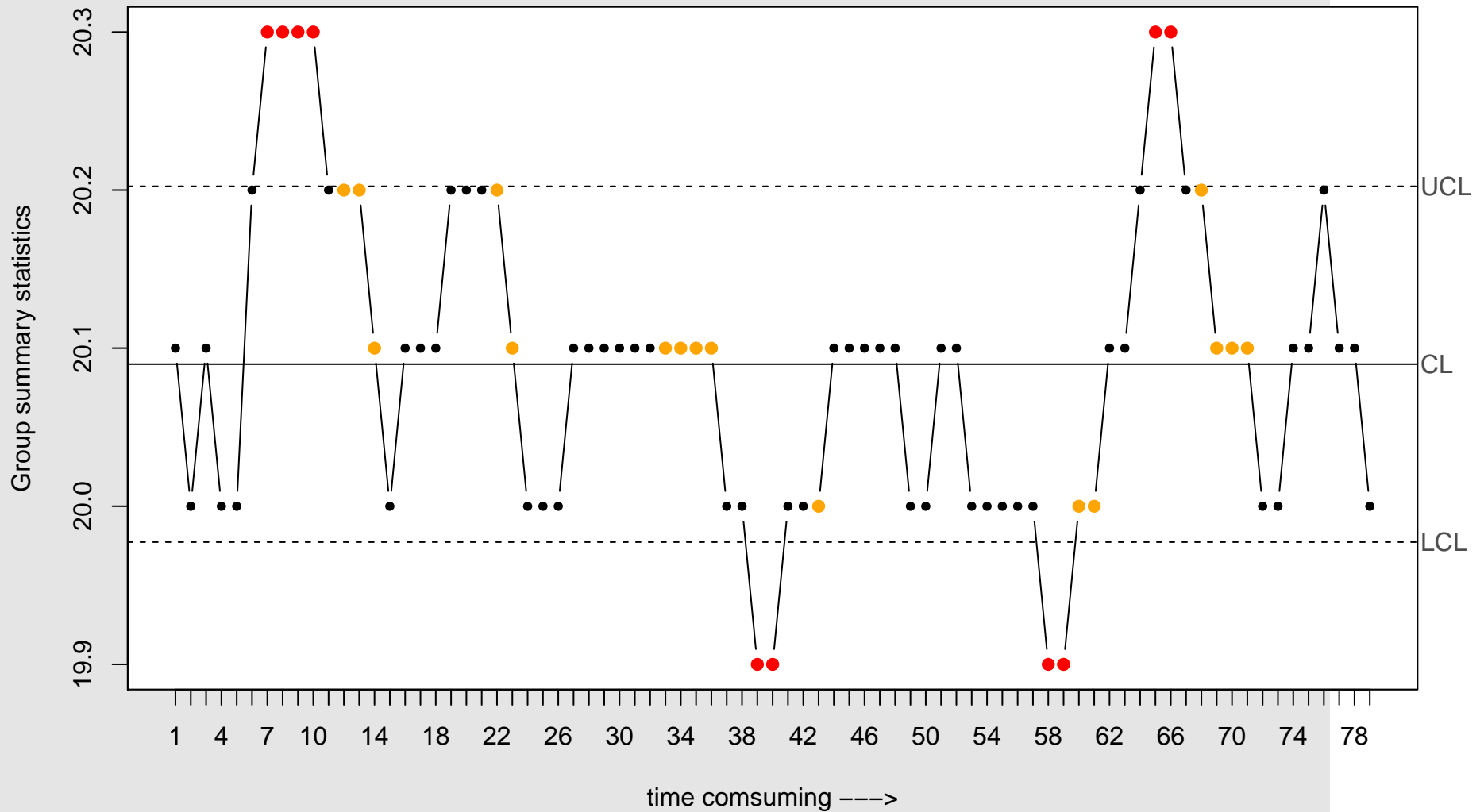
LCL = 20.013

UCL = 20.19713

Number beyond limits = 41

Number violating runs = 27

45th column point of this product

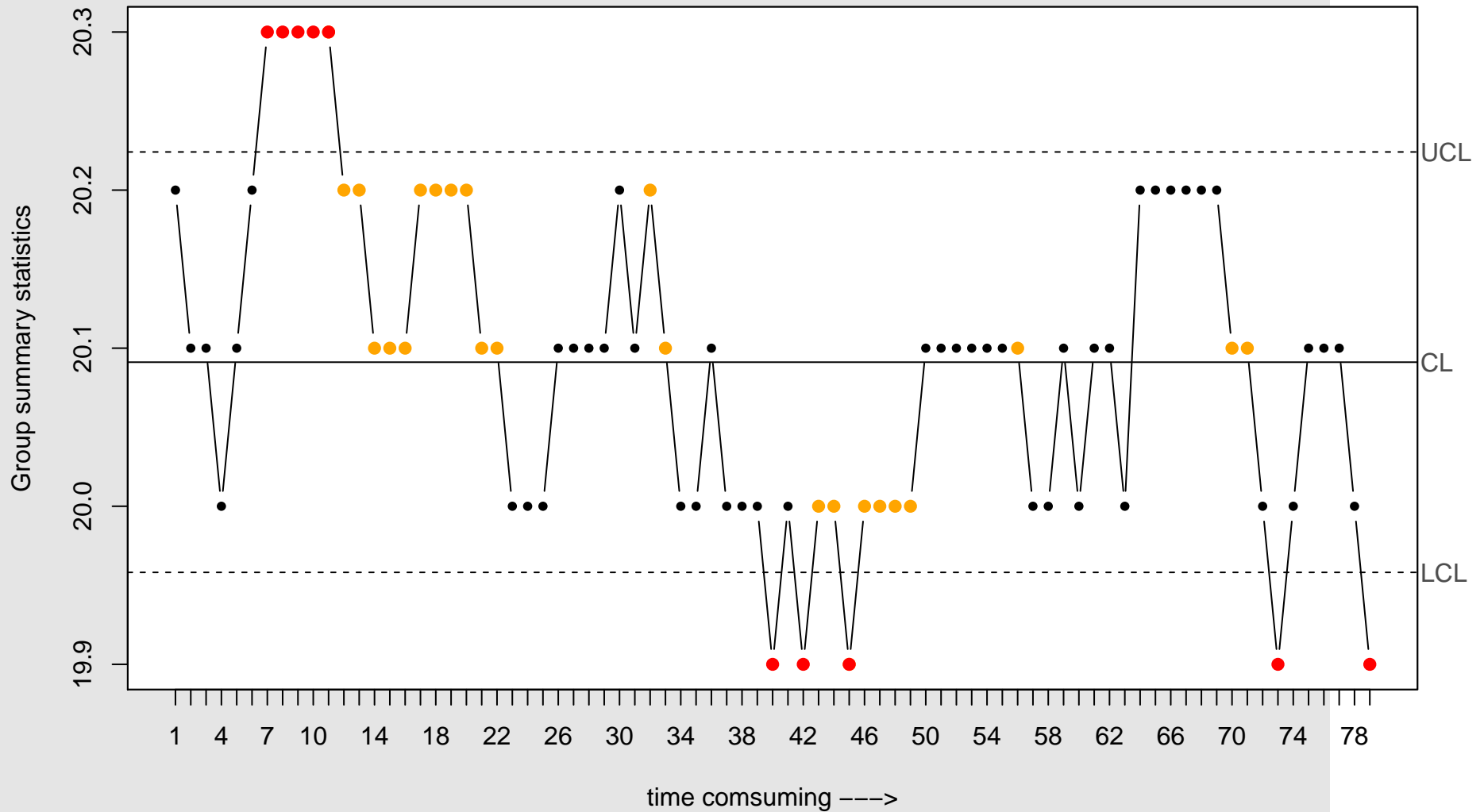


Number of groups = 79
 Center = 20.08987
 StdDev = 0.03750682

LCL = 19.97735
 UCL = 20.20239

Number beyond limits = 10
 Number violating runs = 17

46th column point of this product

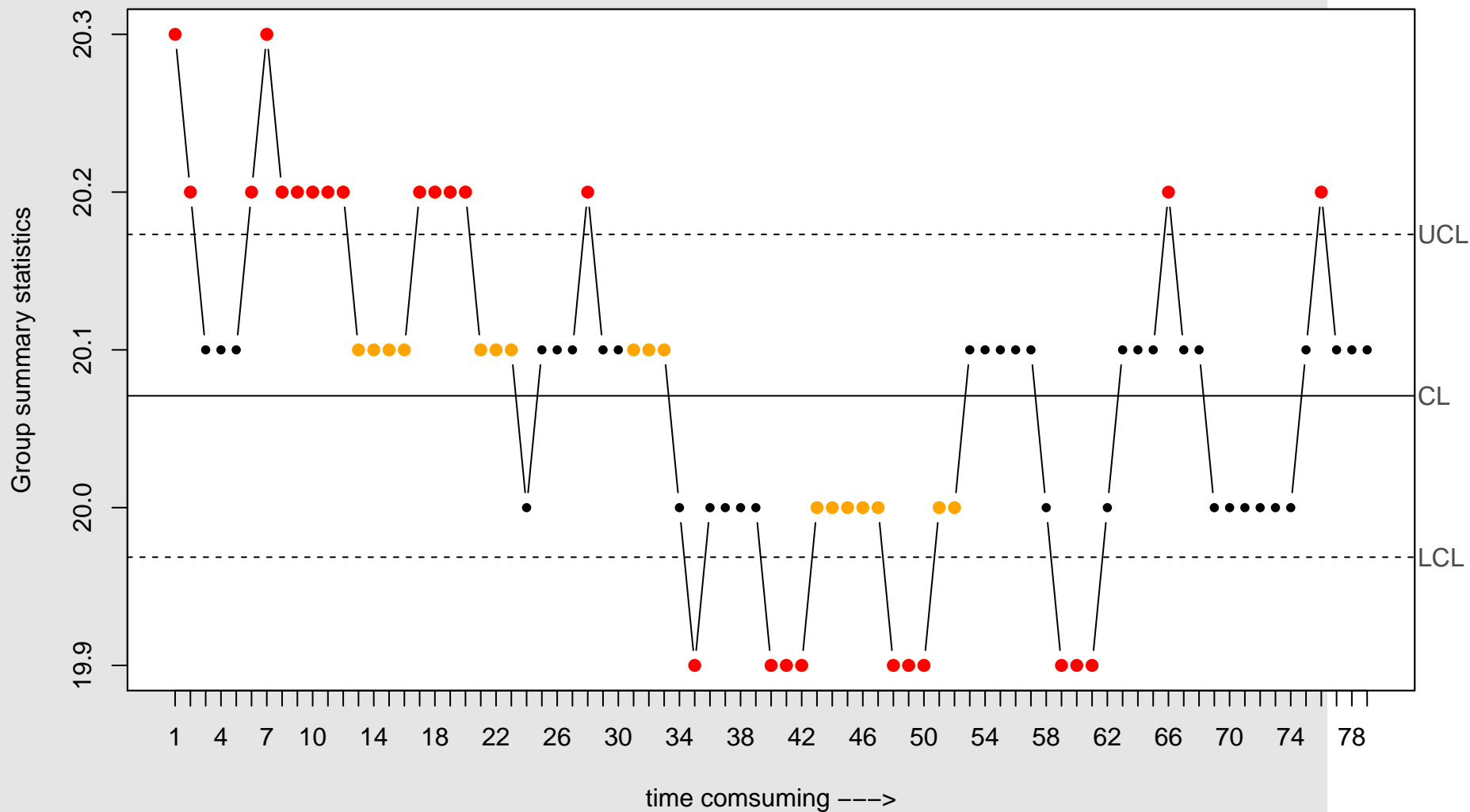


Number of groups = 79
Center = 20.09114
StdDev = 0.04432624

LCL = 19.95816
UCL = 20.22412

Number beyond limits = 10
Number violating runs = 24

47th column point of this product

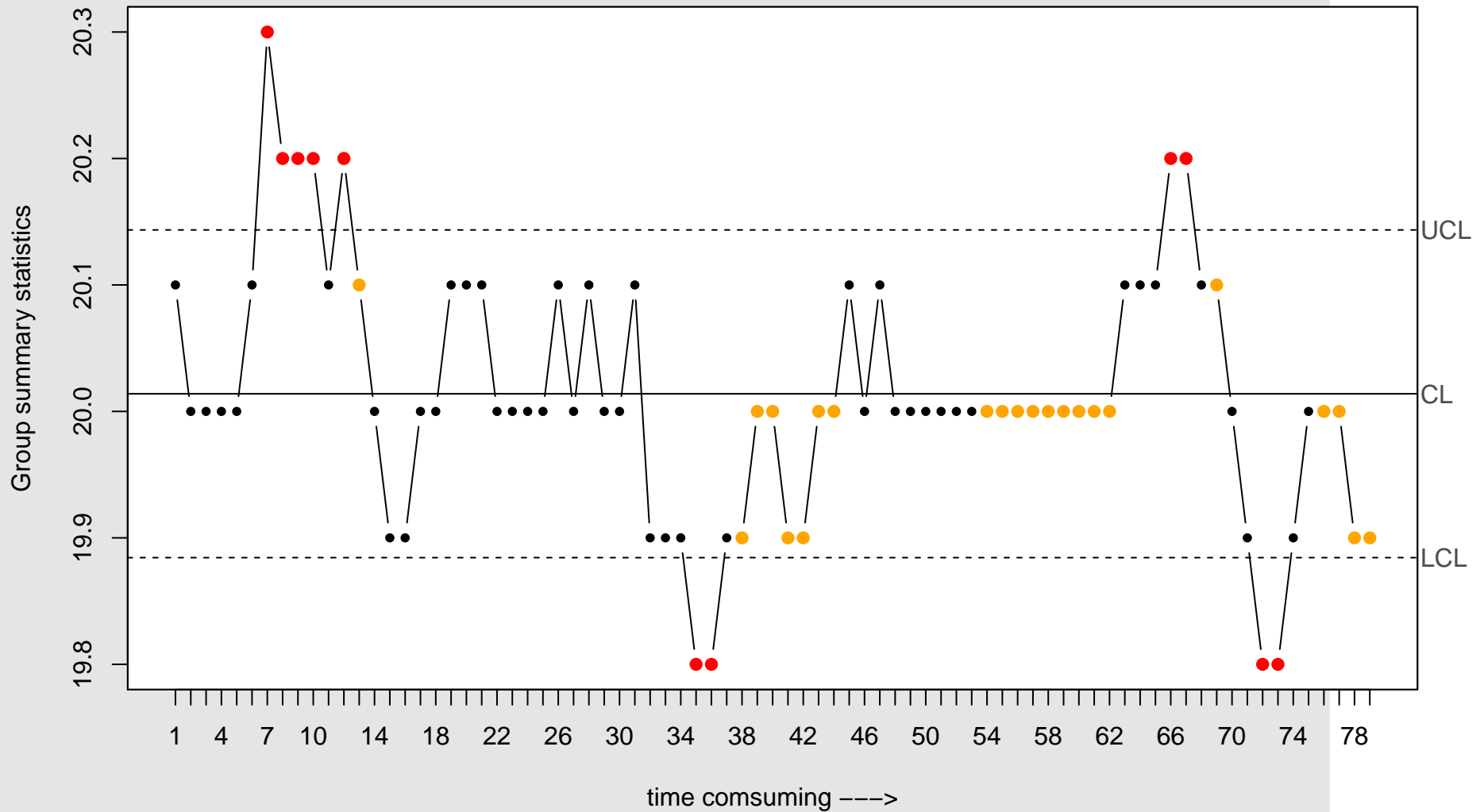


Number of groups = 79
 Center = 20.07089
 StdDev = 0.03409711

LCL = 19.96859
 UCL = 20.17318

Number beyond limits = 26
 Number violating runs = 33

48th column point of this product

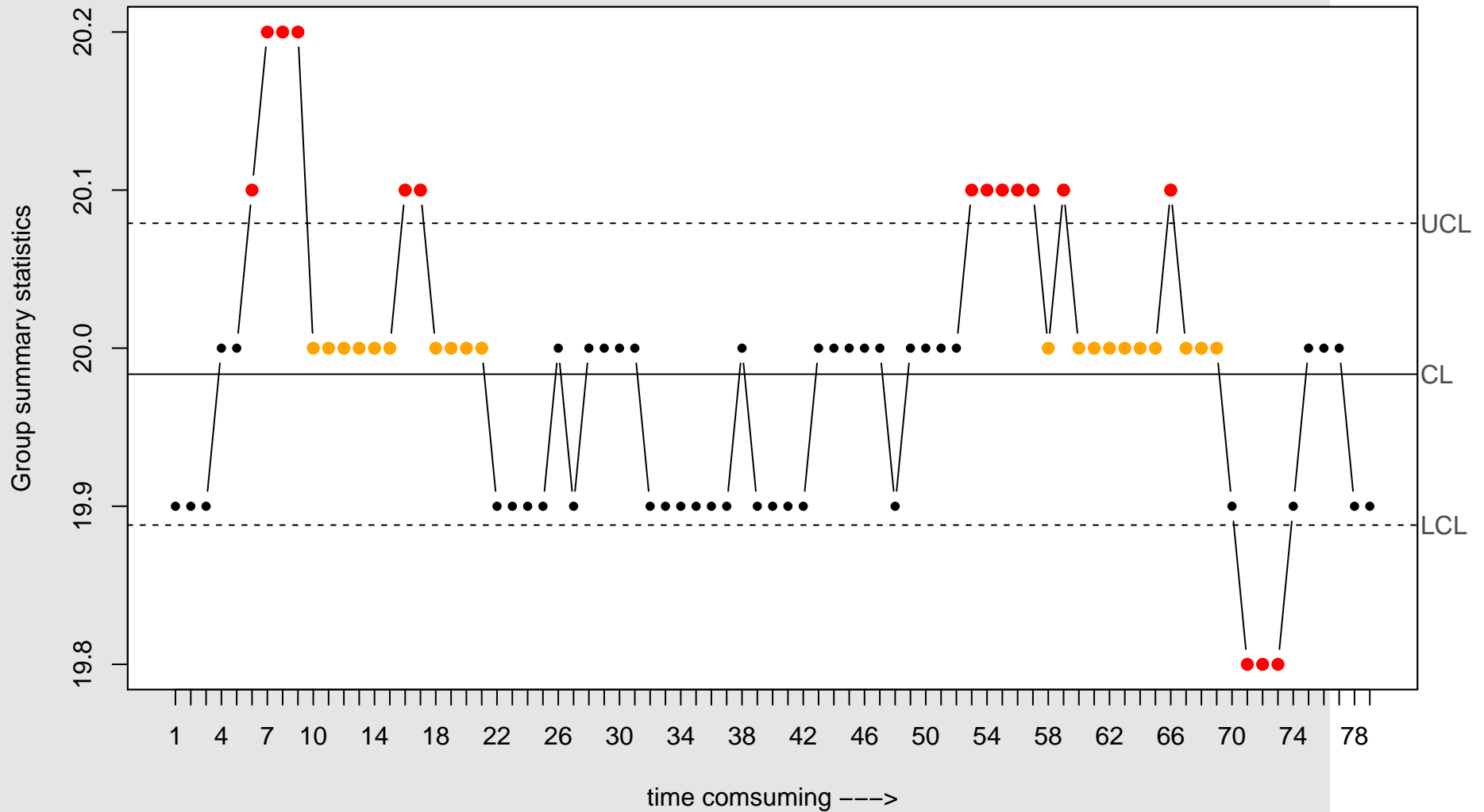


Number of groups = 79
 Center = 20.01392
 StdDev = 0.04318967

LCL = 19.88436
 UCL = 20.14349

Number beyond limits = 11
 Number violating runs = 23

49th column point of this product

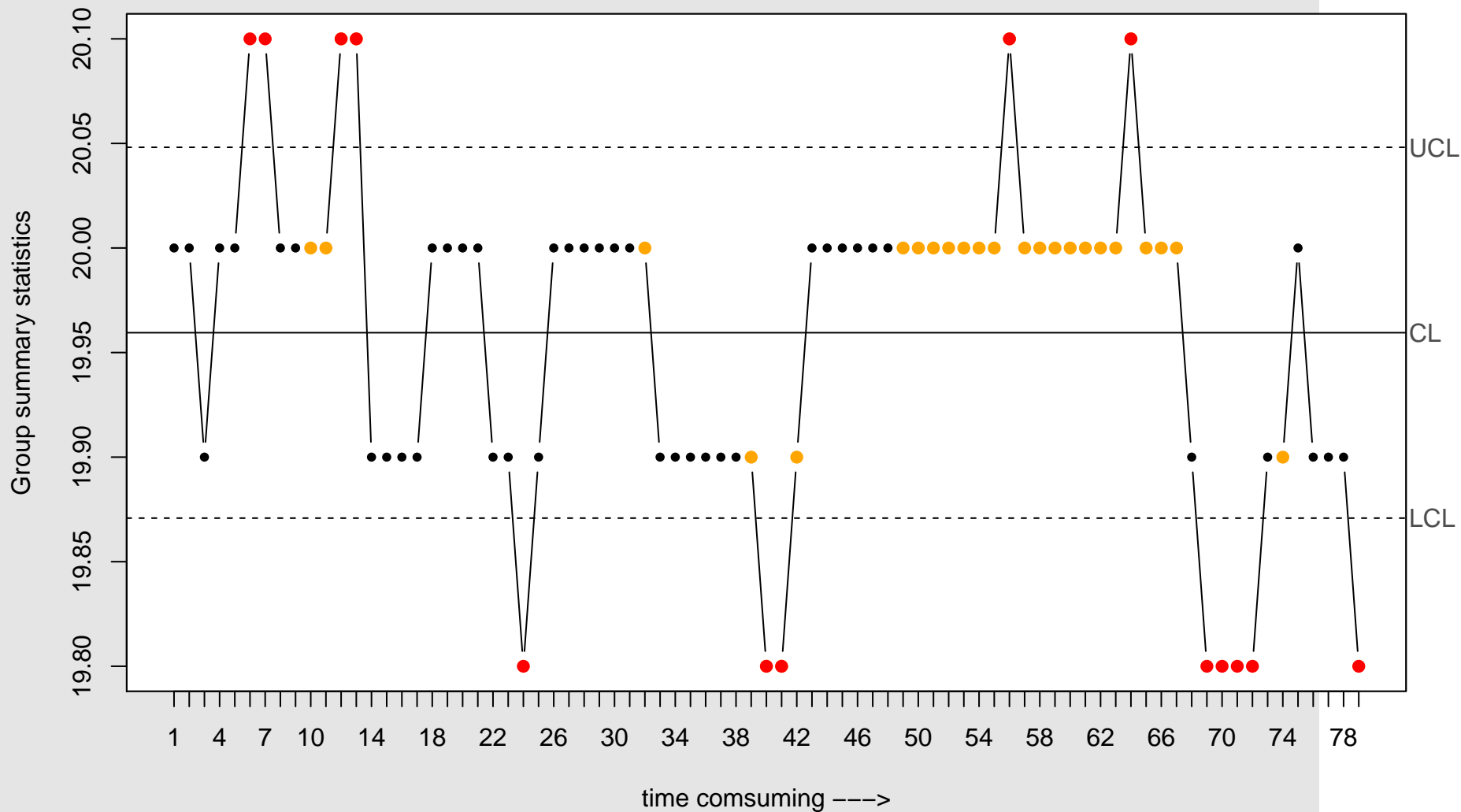


Number of groups = 79
 Center = 19.98354
 StdDev = 0.03182397

LCL = 19.88807
 UCL = 20.07902

Number beyond limits = 16
 Number violating runs = 27

50th column point of this product

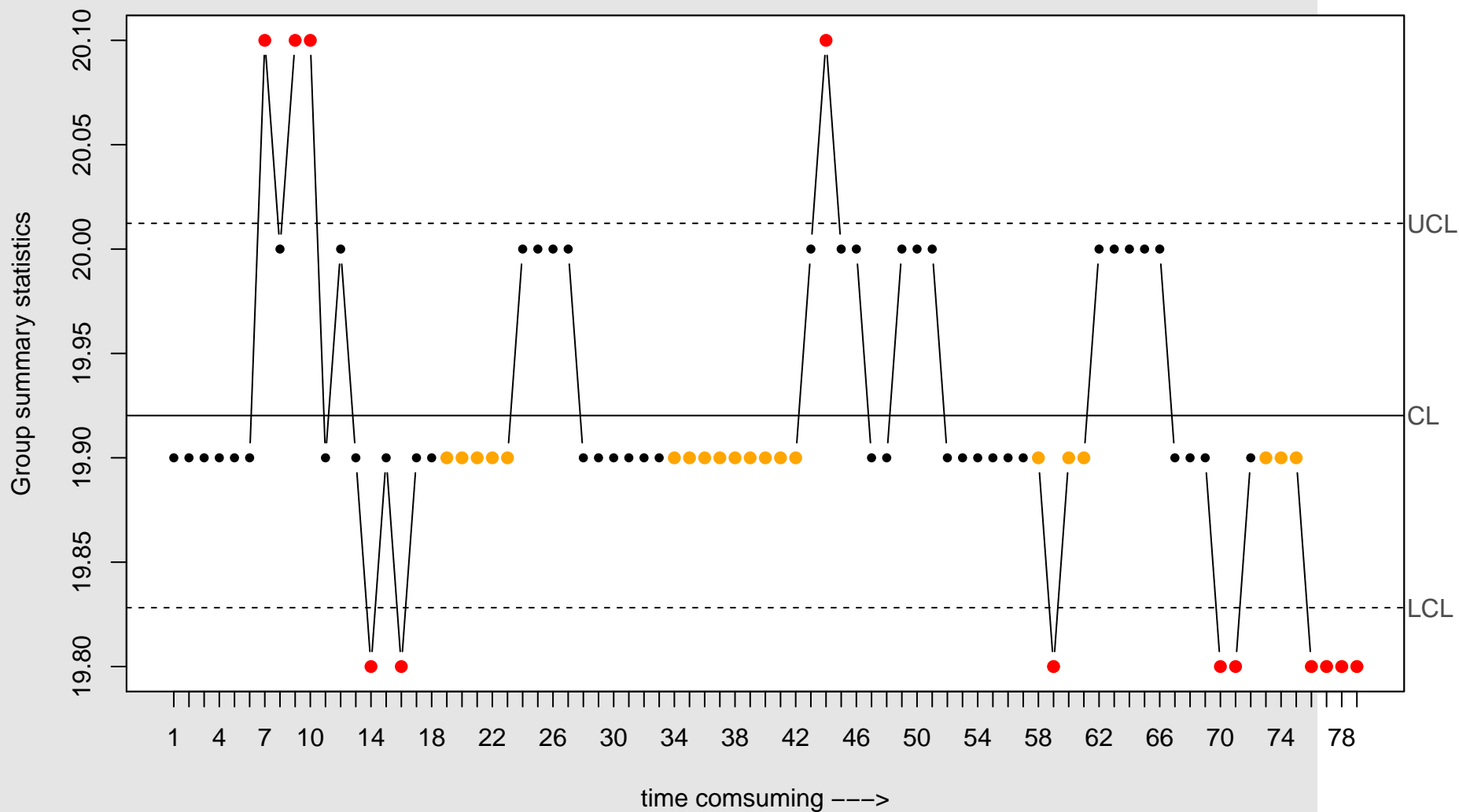


Number of groups = 79
 Center = 19.95949
 StdDev = 0.02955083

LCL = 19.87084
 UCL = 20.04815

Number beyond limits = 14
 Number violating runs = 29

51th column point of this product

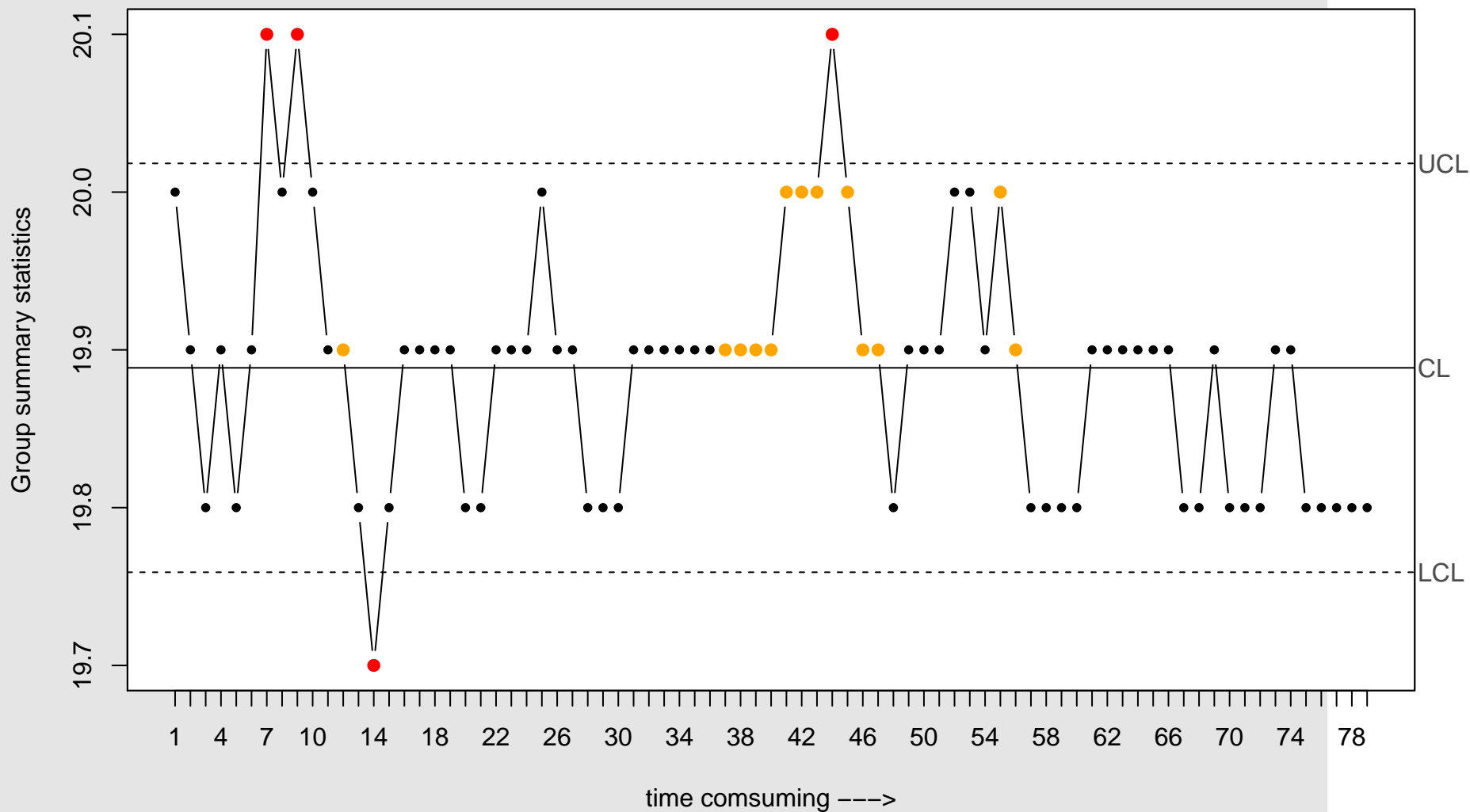


Number of groups = 79
 Center = 19.92025
 StdDev = 0.0306874

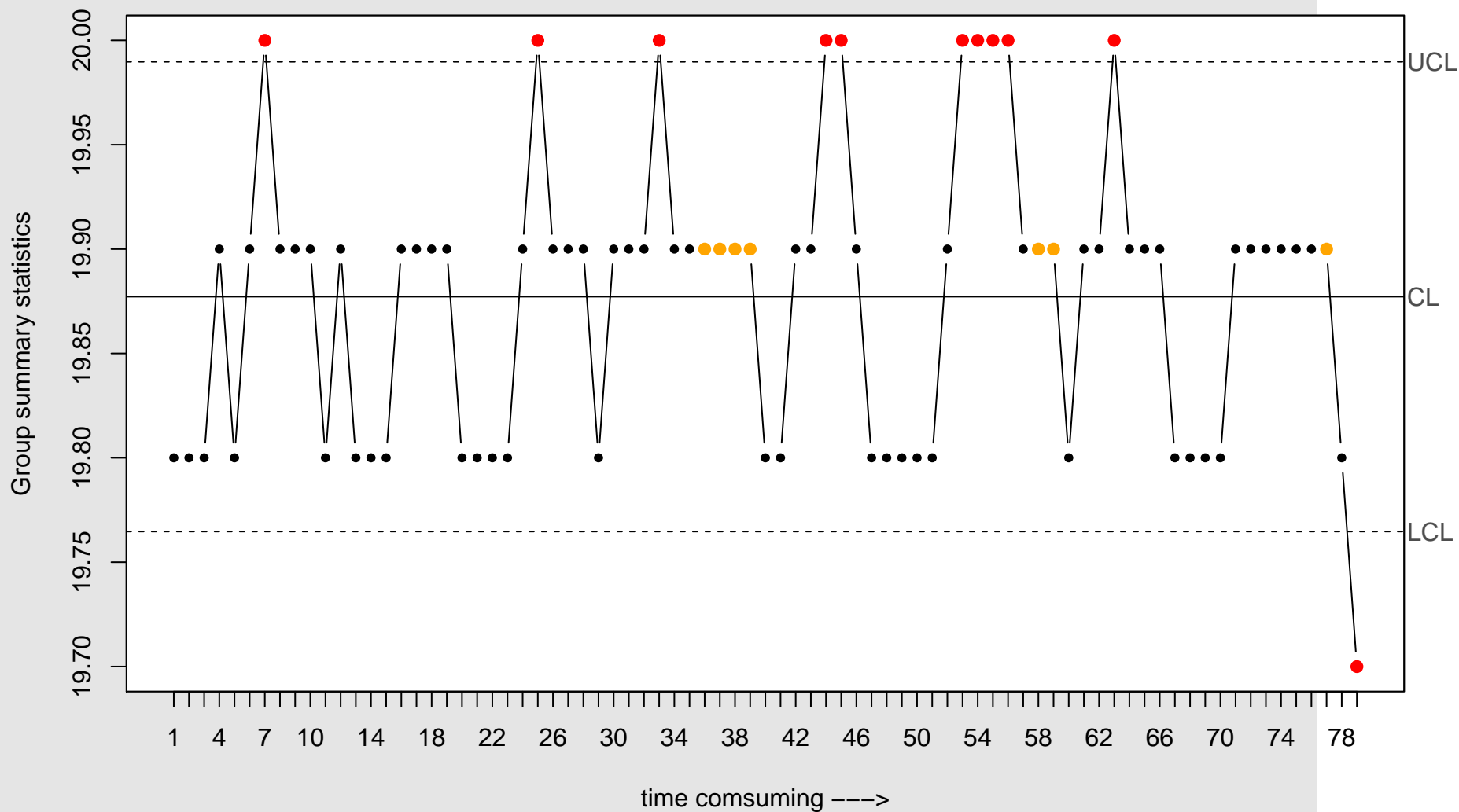
LCL = 19.82819
 UCL = 20.01232

Number beyond limits = 13
 Number violating runs = 25

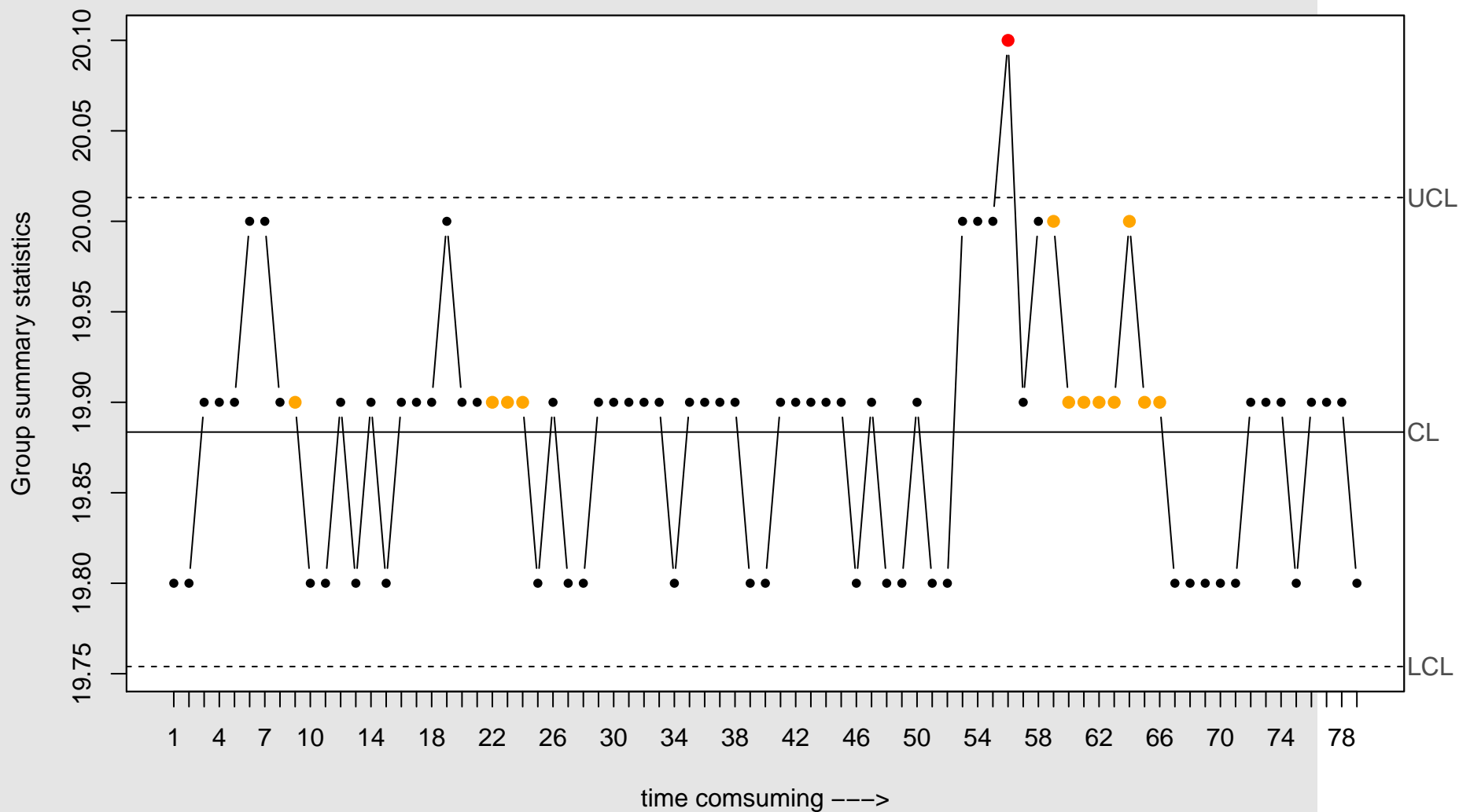
52th column point of this product



53th column point of this product



54th column point of this product

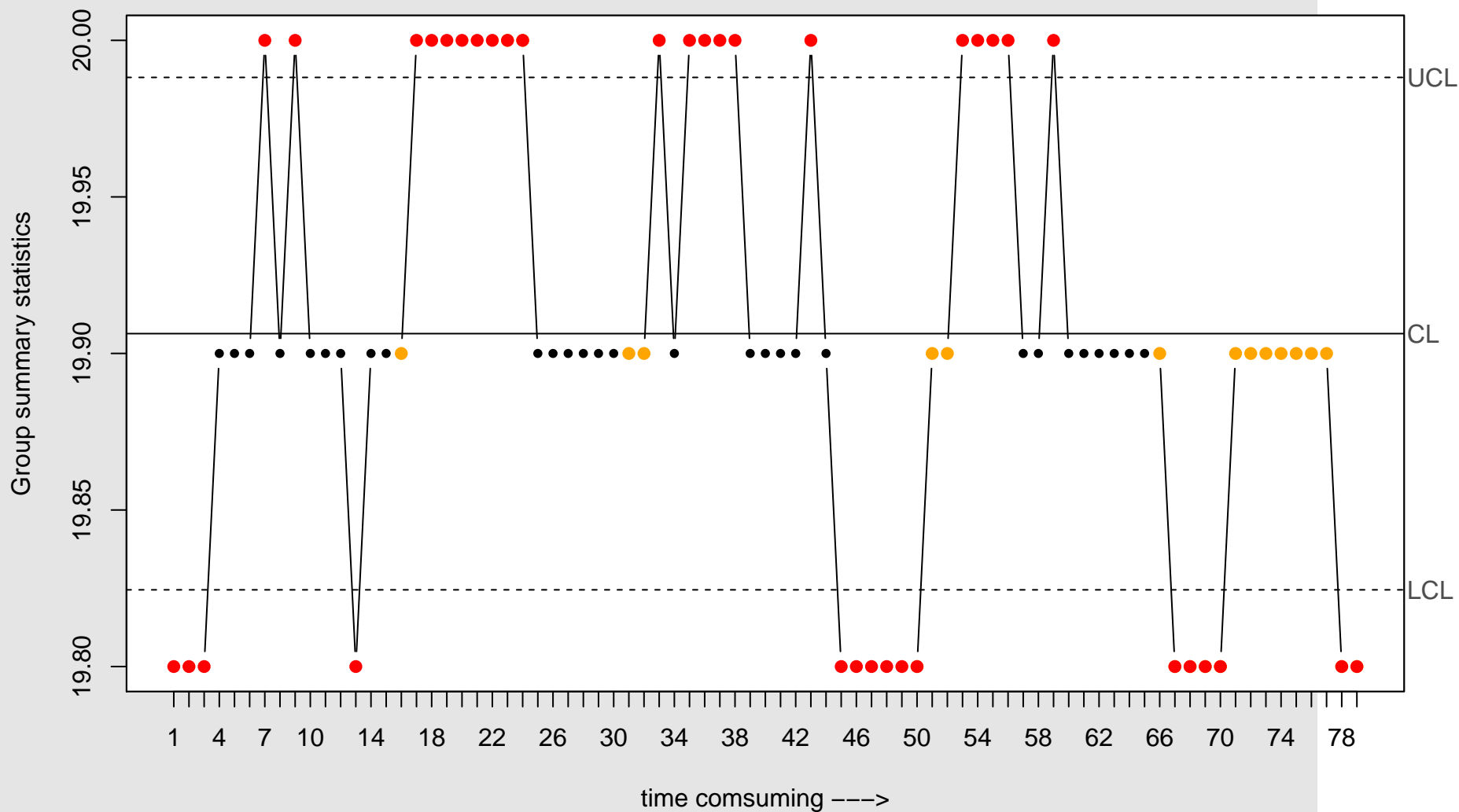


Number of groups = 79
 Center = 19.88354
 StdDev = 0.04318967

LCL = 19.75398
 UCL = 20.01311

Number beyond limits = 1
 Number violating runs = 12

55th column point of this product

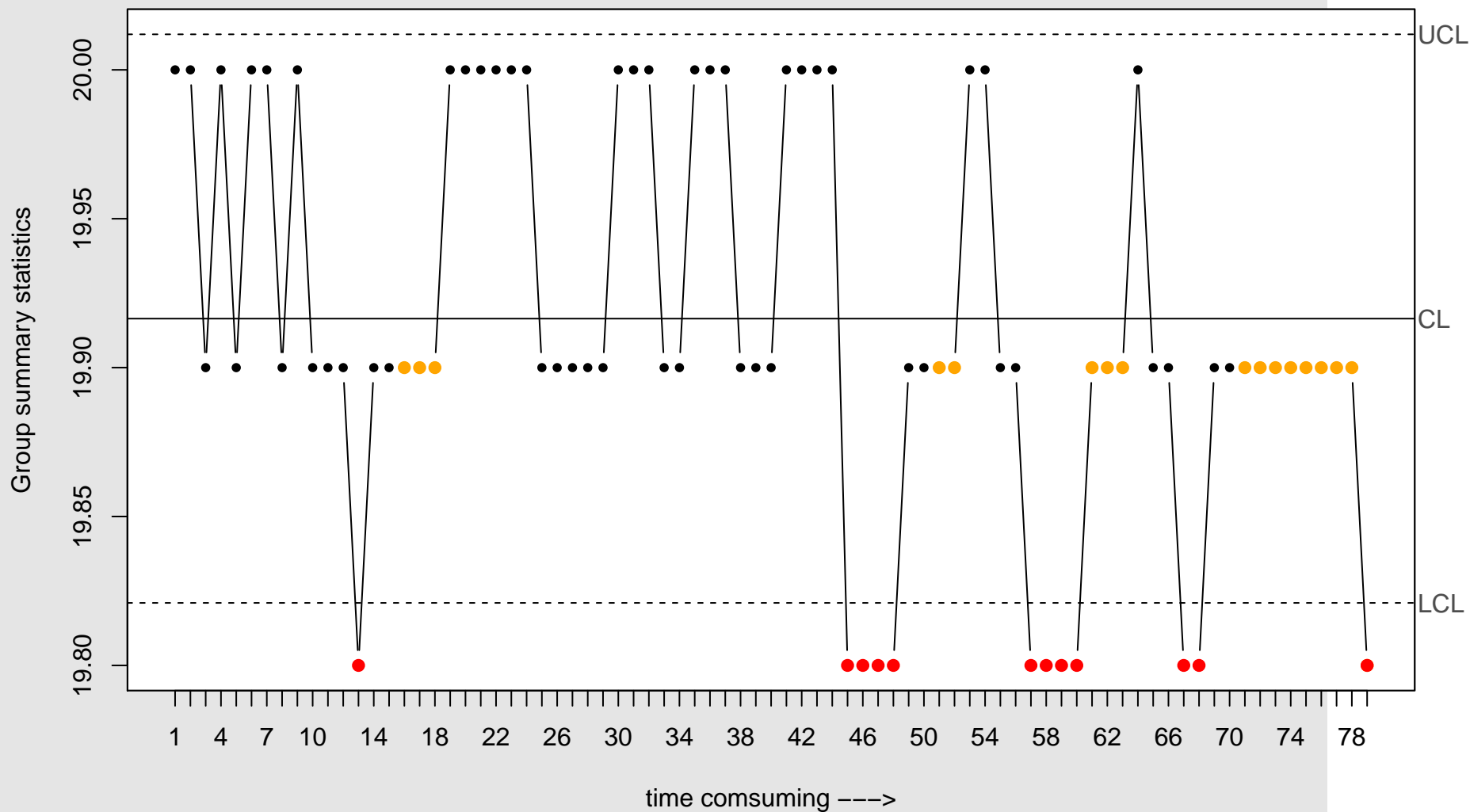


Number of groups = 79
 Center = 19.90633
 StdDev = 0.02727769

LCL = 19.8245
 UCL = 19.98816

Number beyond limits = 37
 Number violating runs = 22

56th column point of this product

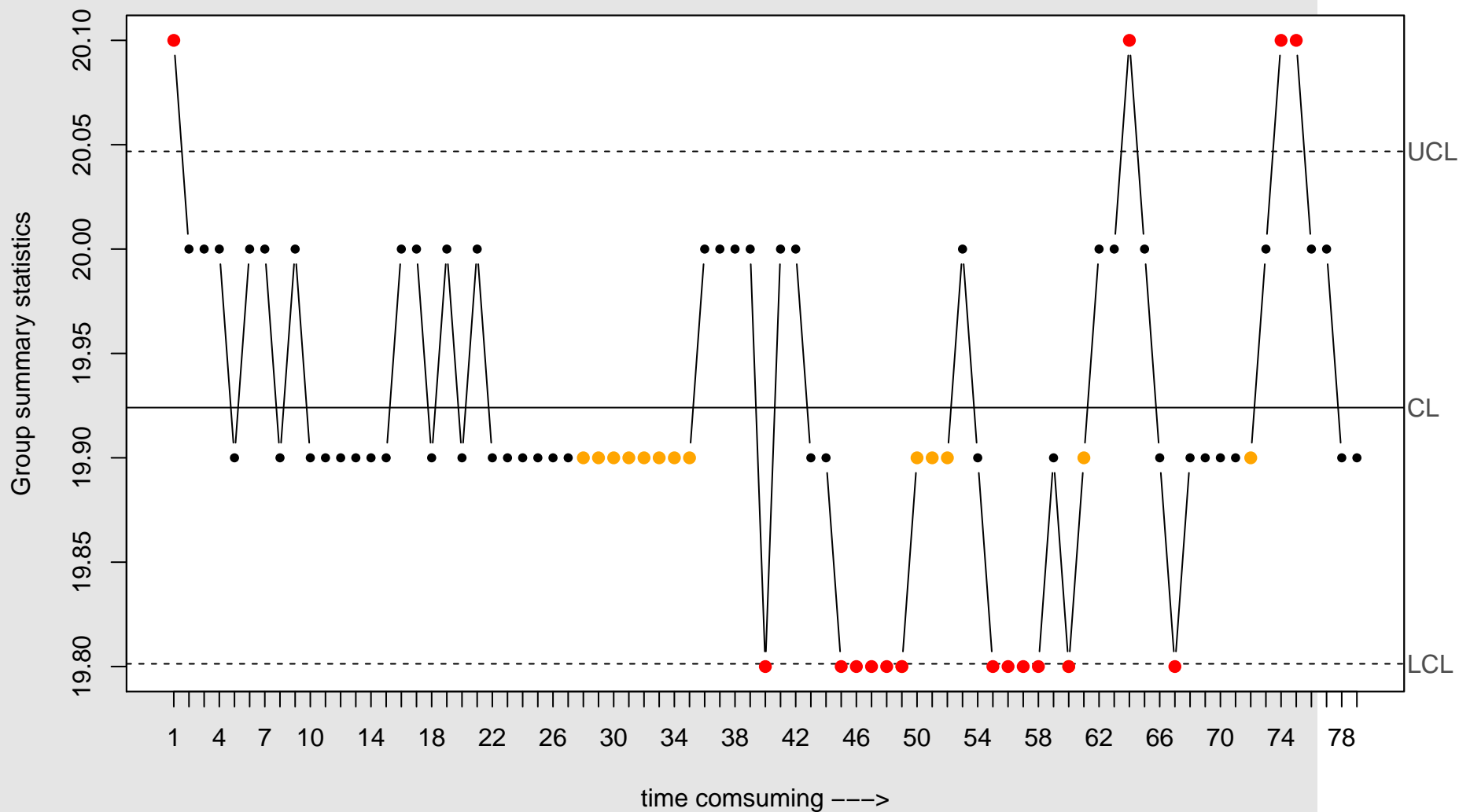


Number of groups = 79
Center = 19.91646
StdDev = 0.03182397

LCL = 19.82098
UCL = 20.01193

Number beyond limits = 12
Number violating runs = 17

57th column point of this product

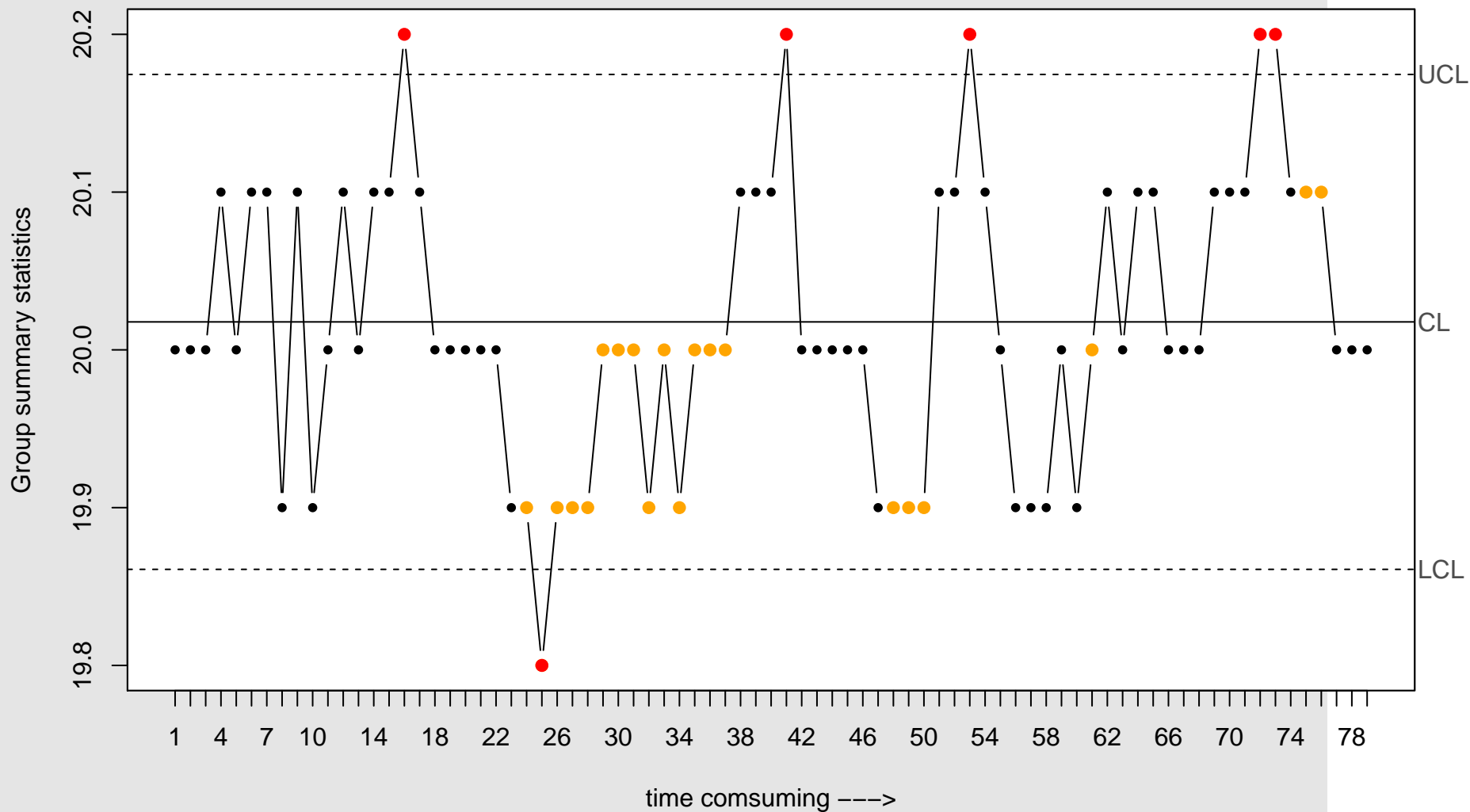


Number of groups = 79
Center = 19.92405
StdDev = 0.04091653

LCL = 19.8013
UCL = 20.0468

Number beyond limits = 16
Number violating runs = 15

58th column point of this product

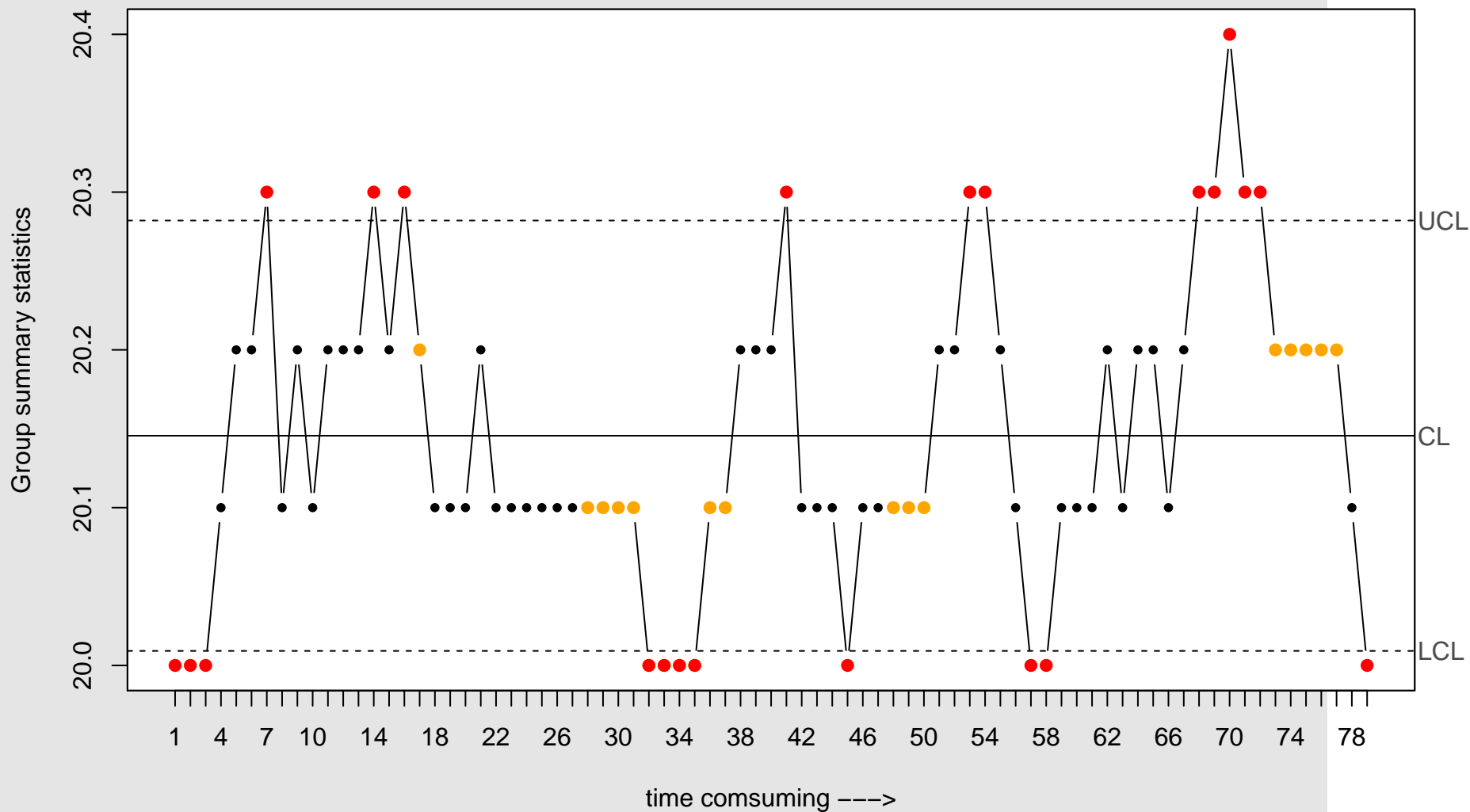


Number of groups = 79
Center = 20.01772
StdDev = 0.05228223

LCL = 19.86087
UCL = 20.17457

Number beyond limits = 6
Number violating runs = 20

59th column point of this product

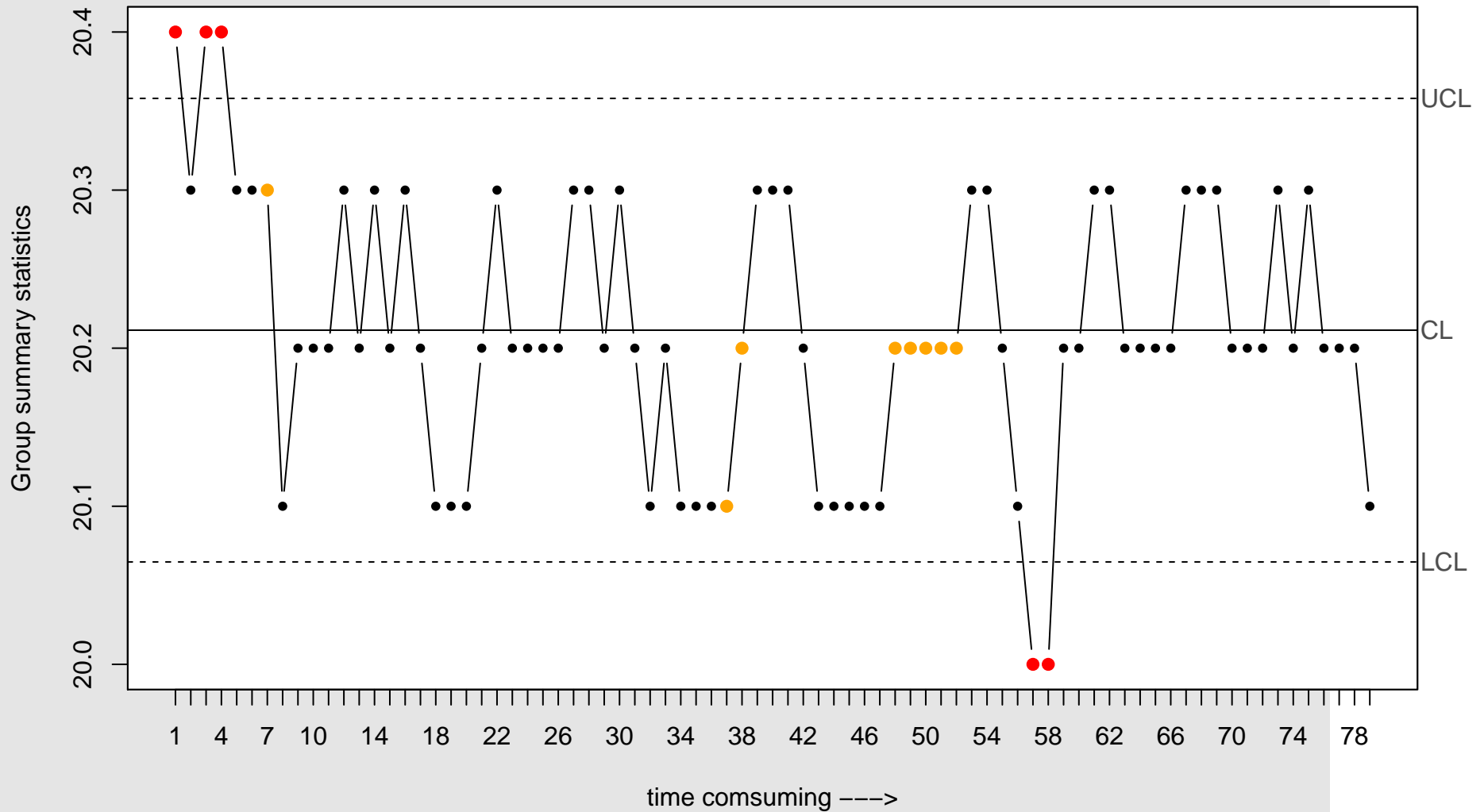


Number of groups = 79
 Center = 20.14557
 StdDev = 0.04546281

LCL = 20.00918
 UCL = 20.28196

Number beyond limits = 22
 Number violating runs = 19

60th column point of this product

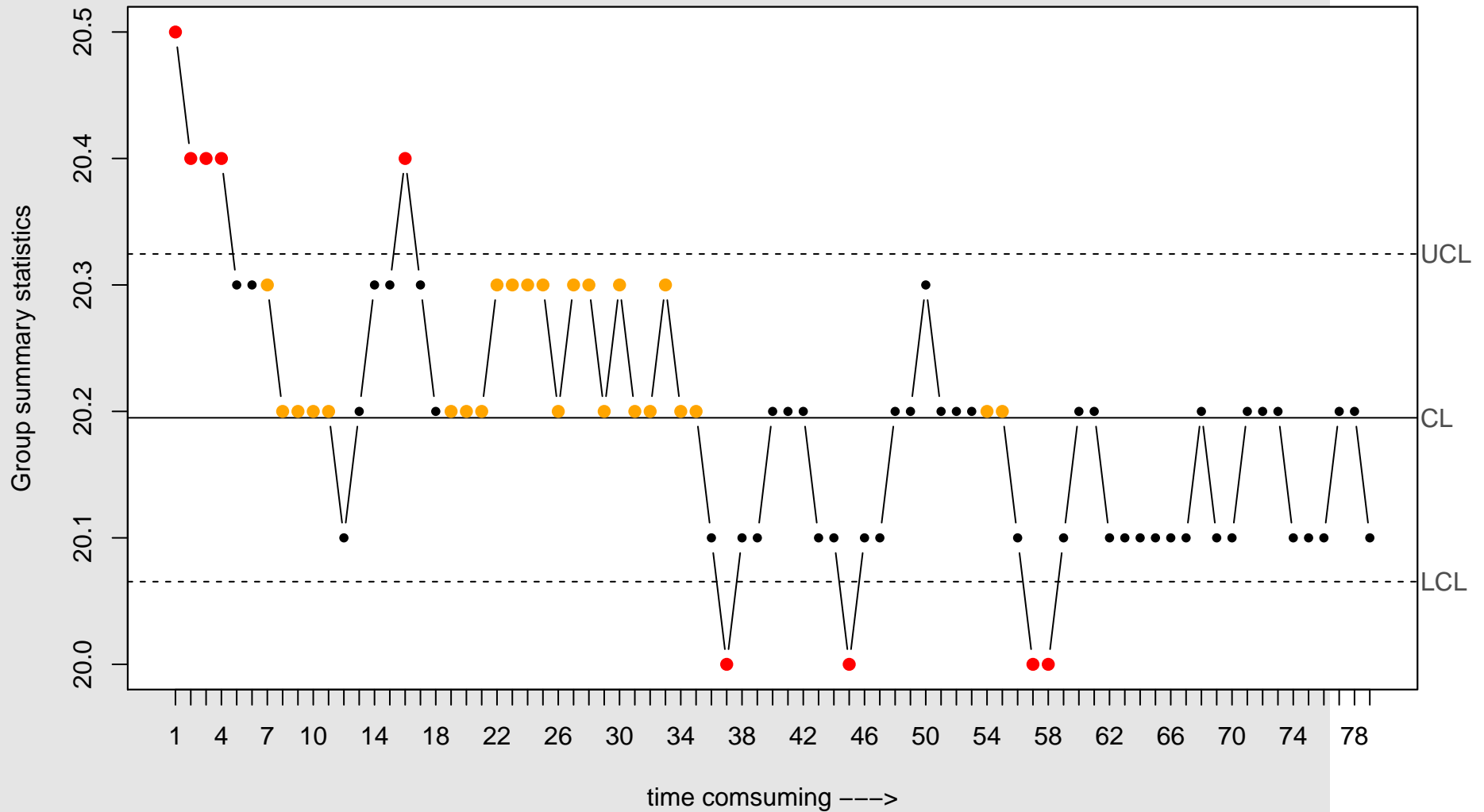


Number of groups = 79
Center = 20.21139
StdDev = 0.04887252

LCL = 20.06477
UCL = 20.35801

Number beyond limits = 5
Number violating runs = 8

61th column point of this product

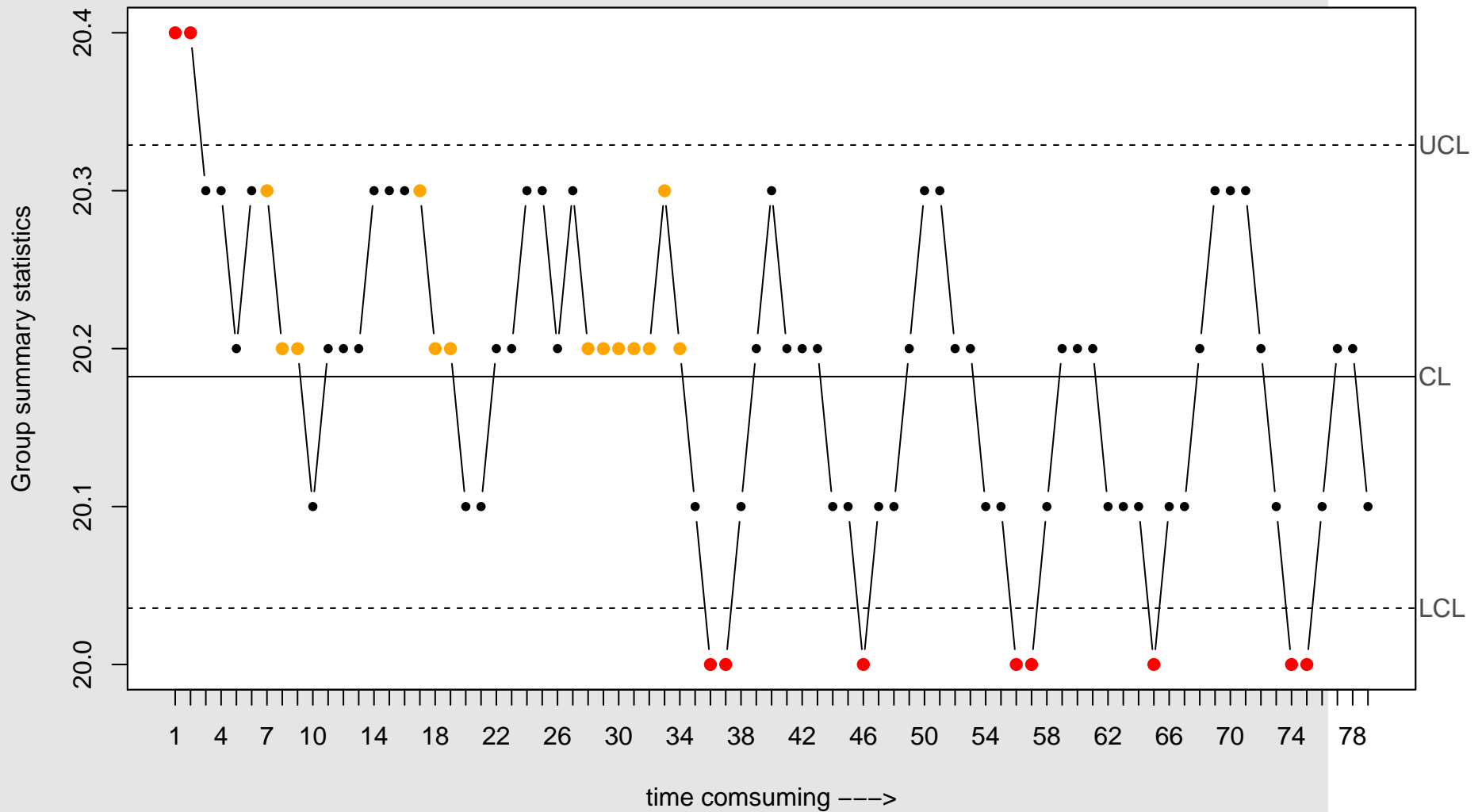


Number of groups = 79
 Center = 20.19494
 StdDev = 0.04318967

LCL = 20.06537
 UCL = 20.32451

Number beyond limits = 9
 Number violating runs = 24

62th column point of this product

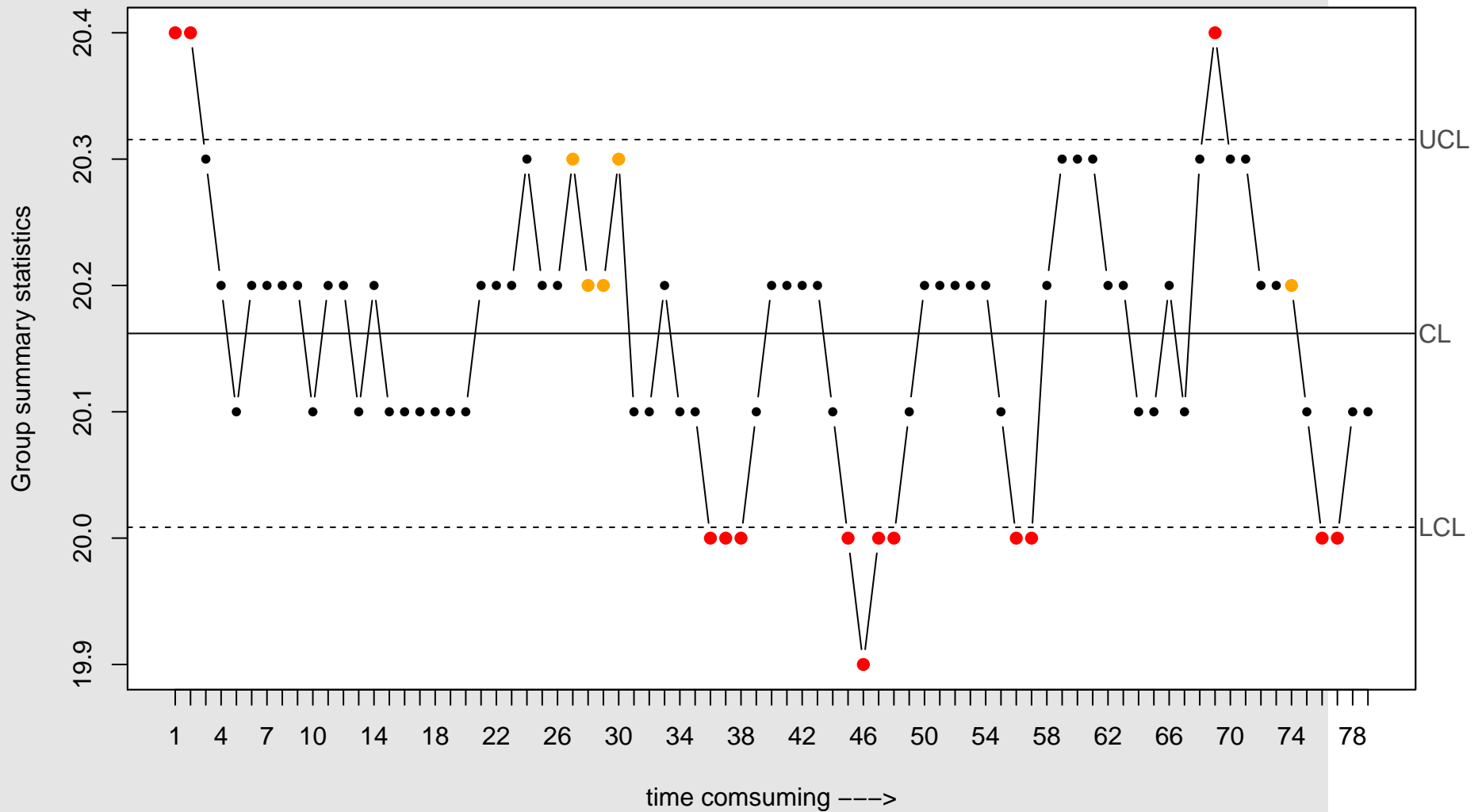


Number of groups = 79
Center = 20.18228
StdDev = 0.04887252

LCL = 20.03566
UCL = 20.3289

Number beyond limits = 10
Number violating runs = 13

63th column point of this product

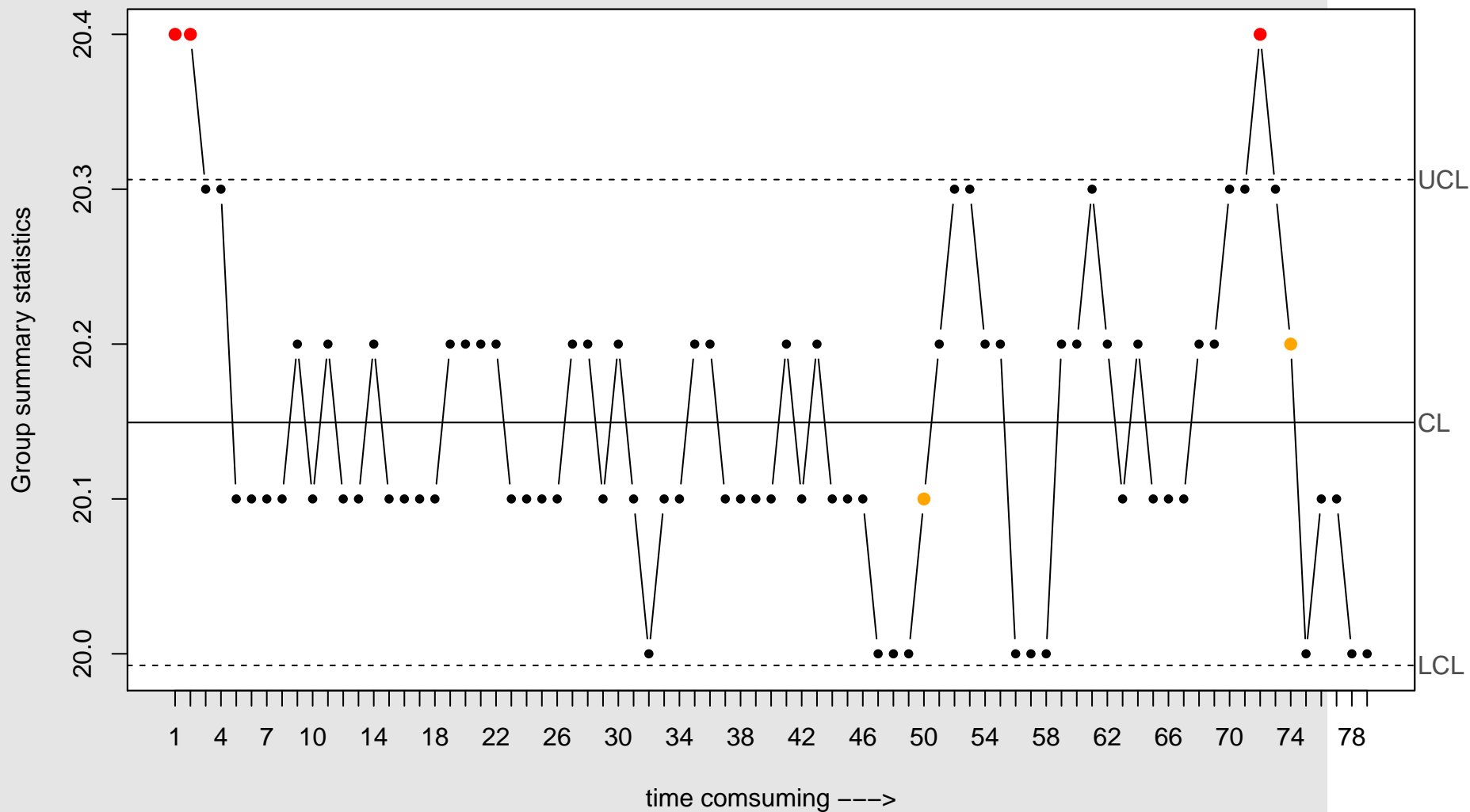


Number of groups = 79
 Center = 20.16203
 StdDev = 0.05114566

LCL = 20.00859
 UCL = 20.31546

Number beyond limits = 14
 Number violating runs = 5

64th column point of this product

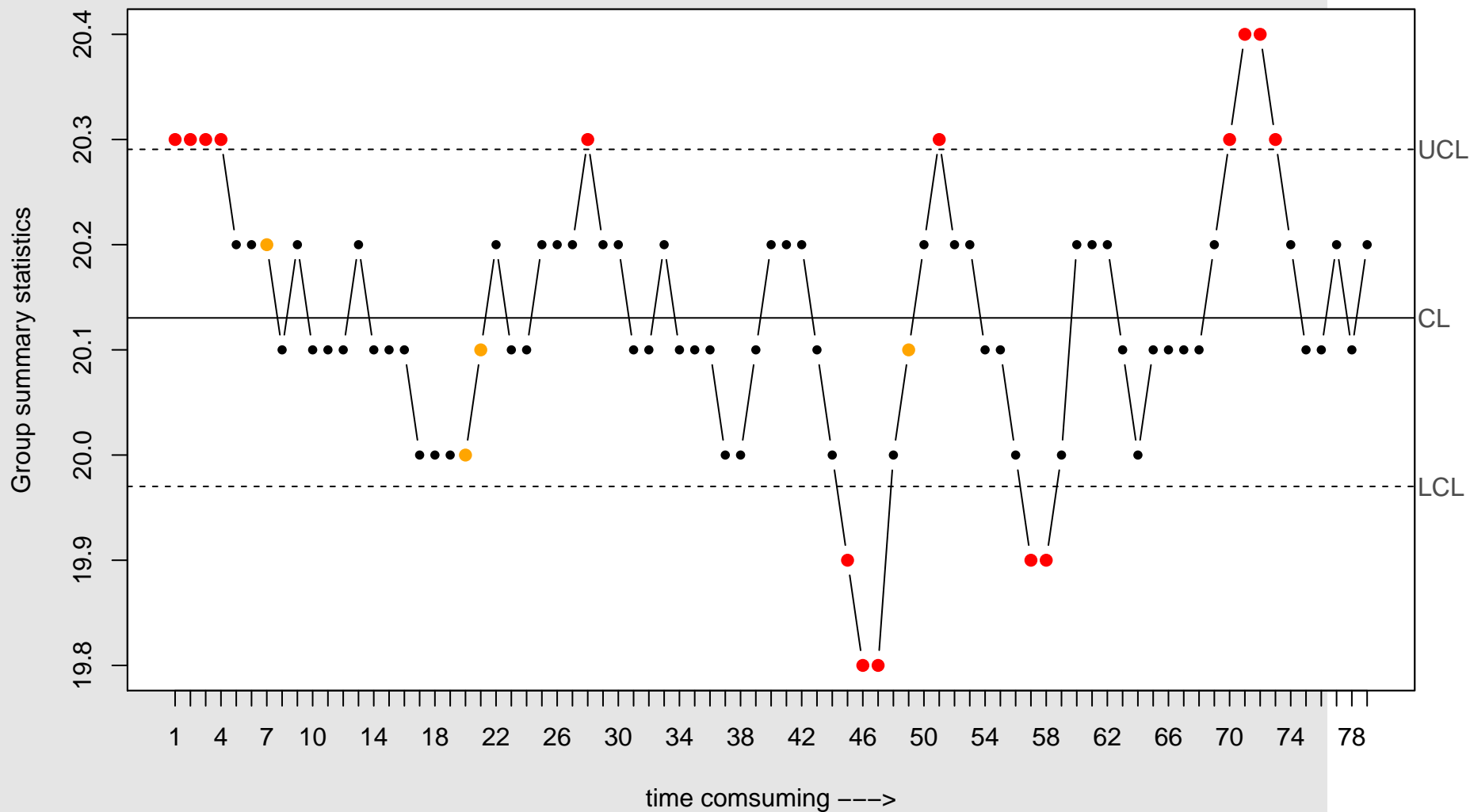


Number of groups = 79
Center = 20.14937
StdDev = 0.05228223

LCL = 19.99252
UCL = 20.30621

Number beyond limits = 3
Number violating runs = 2

65th column point of this product

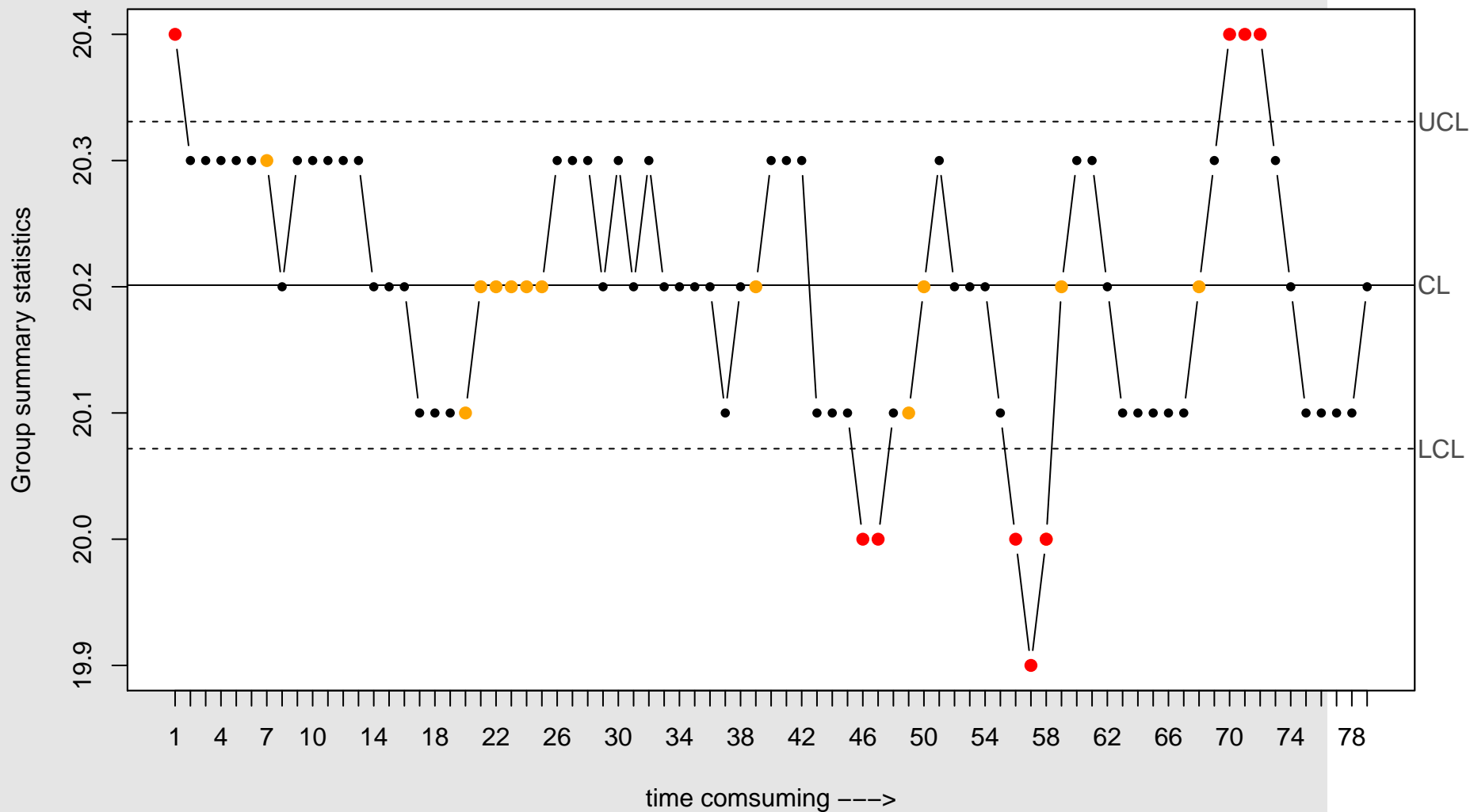


Number of groups = 79
Center = 20.13038
StdDev = 0.0534188

LCL = 19.97012
UCL = 20.29064

Number beyond limits = 15
Number violating runs = 4

66th column point of this product

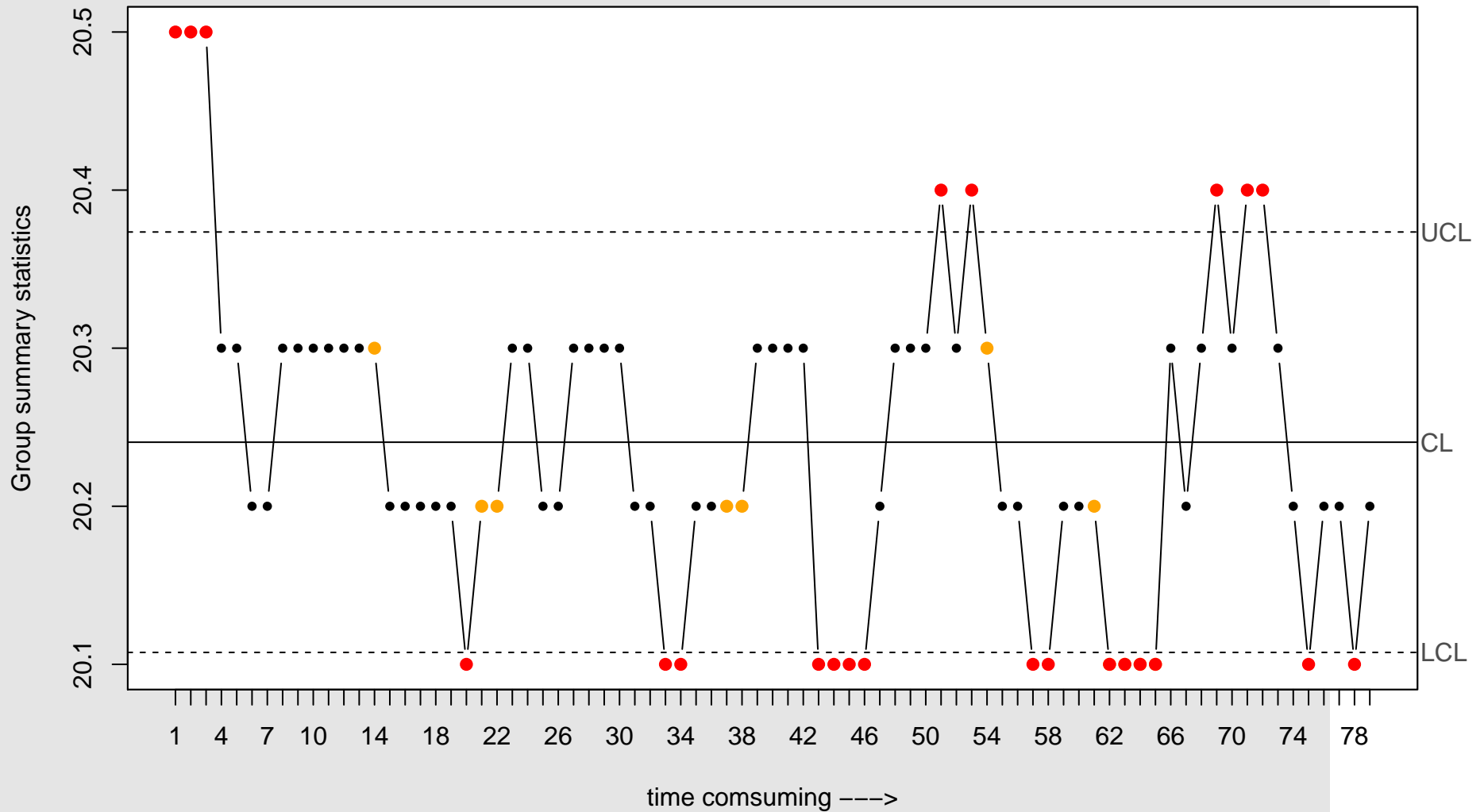


Number of groups = 79
 Center = 20.20127
 StdDev = 0.04318967

LCL = 20.0717
 UCL = 20.33083

Number beyond limits = 9
 Number violating runs = 13

67th column point of this product

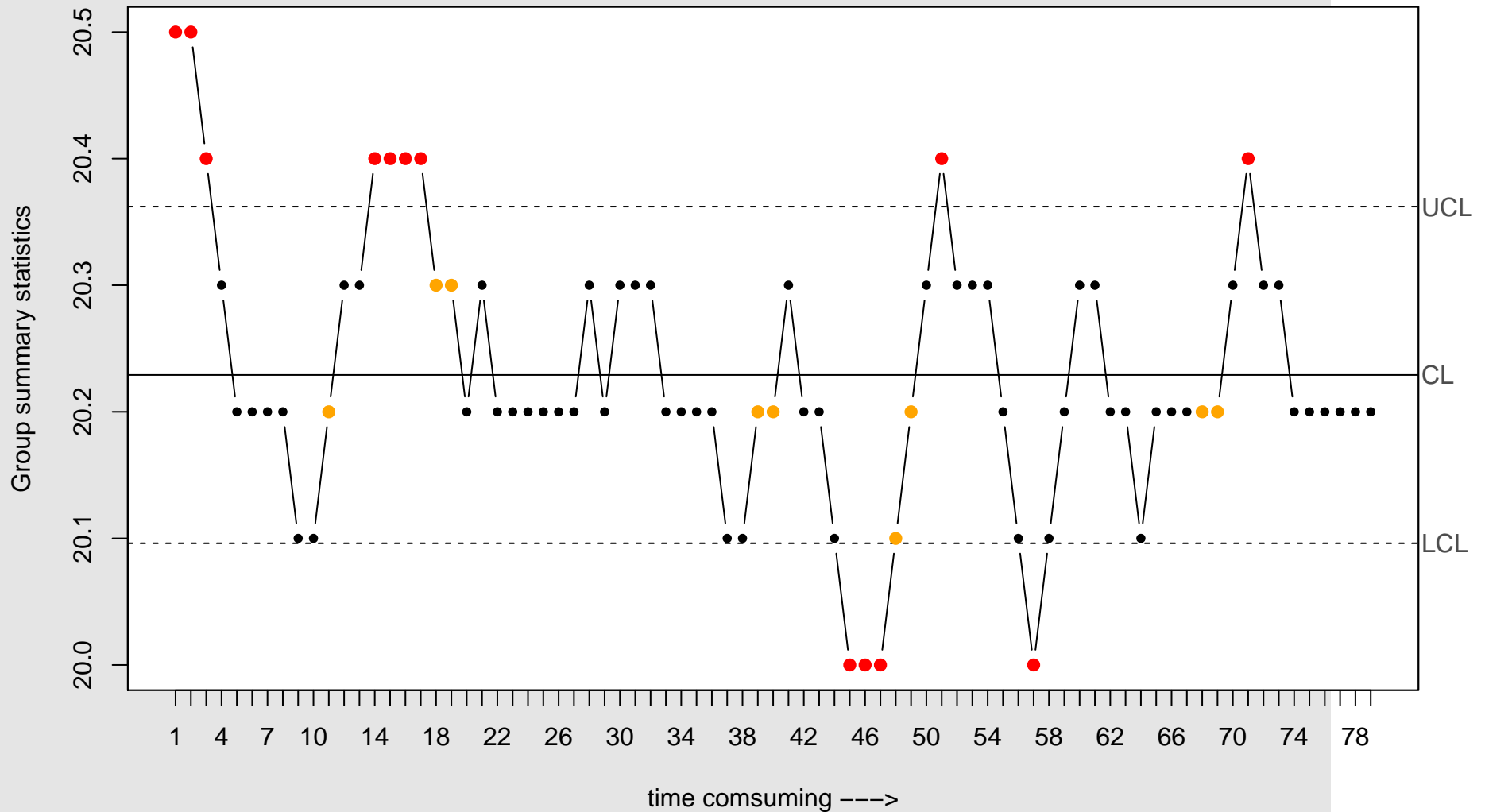


Number of groups = 79
Center = 20.24051
StdDev = 0.04432624

LCL = 20.10753
UCL = 20.37349

Number beyond limits = 23
Number violating runs = 11

68th column point of this product

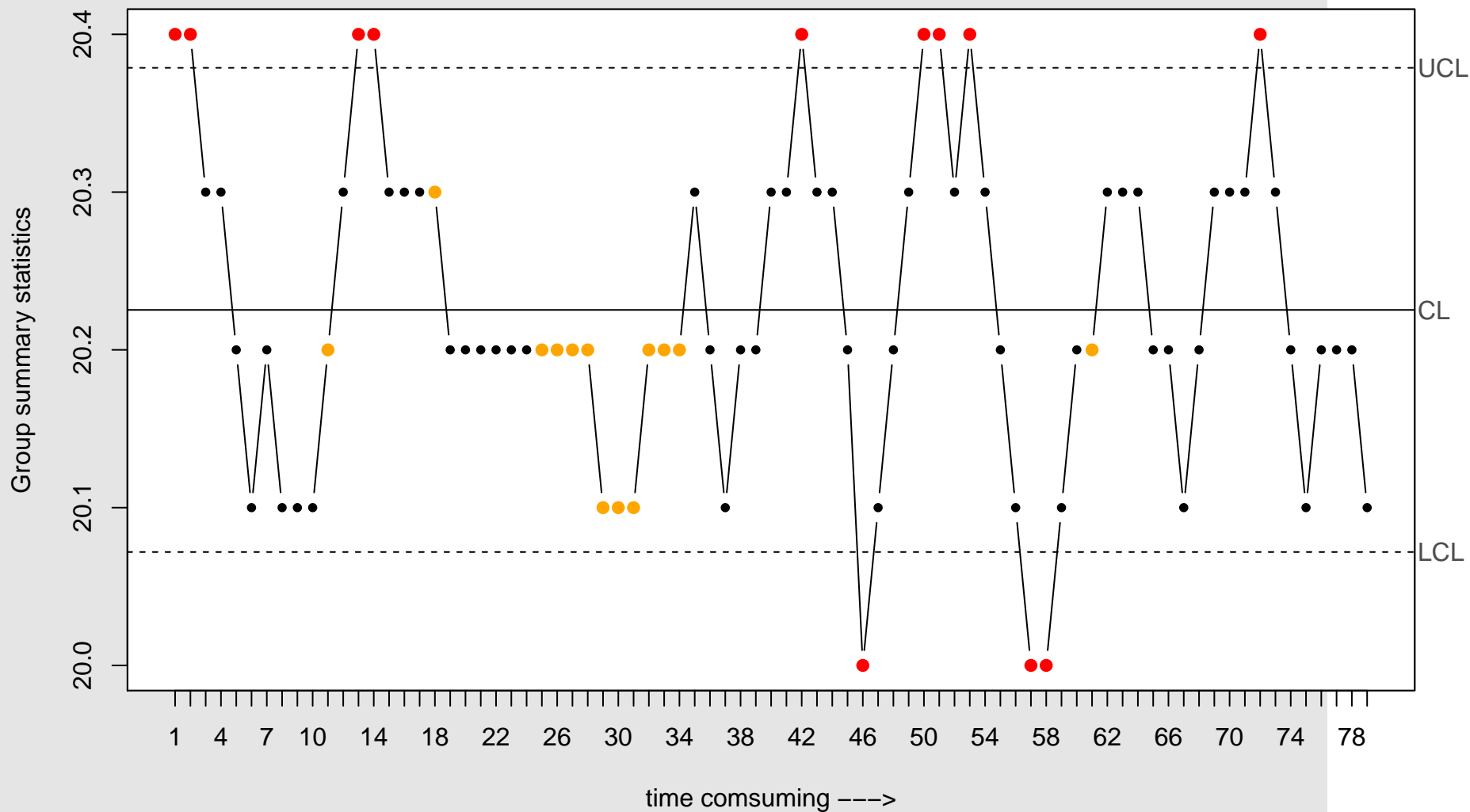


Number of groups = 79
 Center = 20.22911
 StdDev = 0.04432624

LCL = 20.09614
 UCL = 20.36209

Number beyond limits = 13
 Number violating runs = 9

69th column point of this product

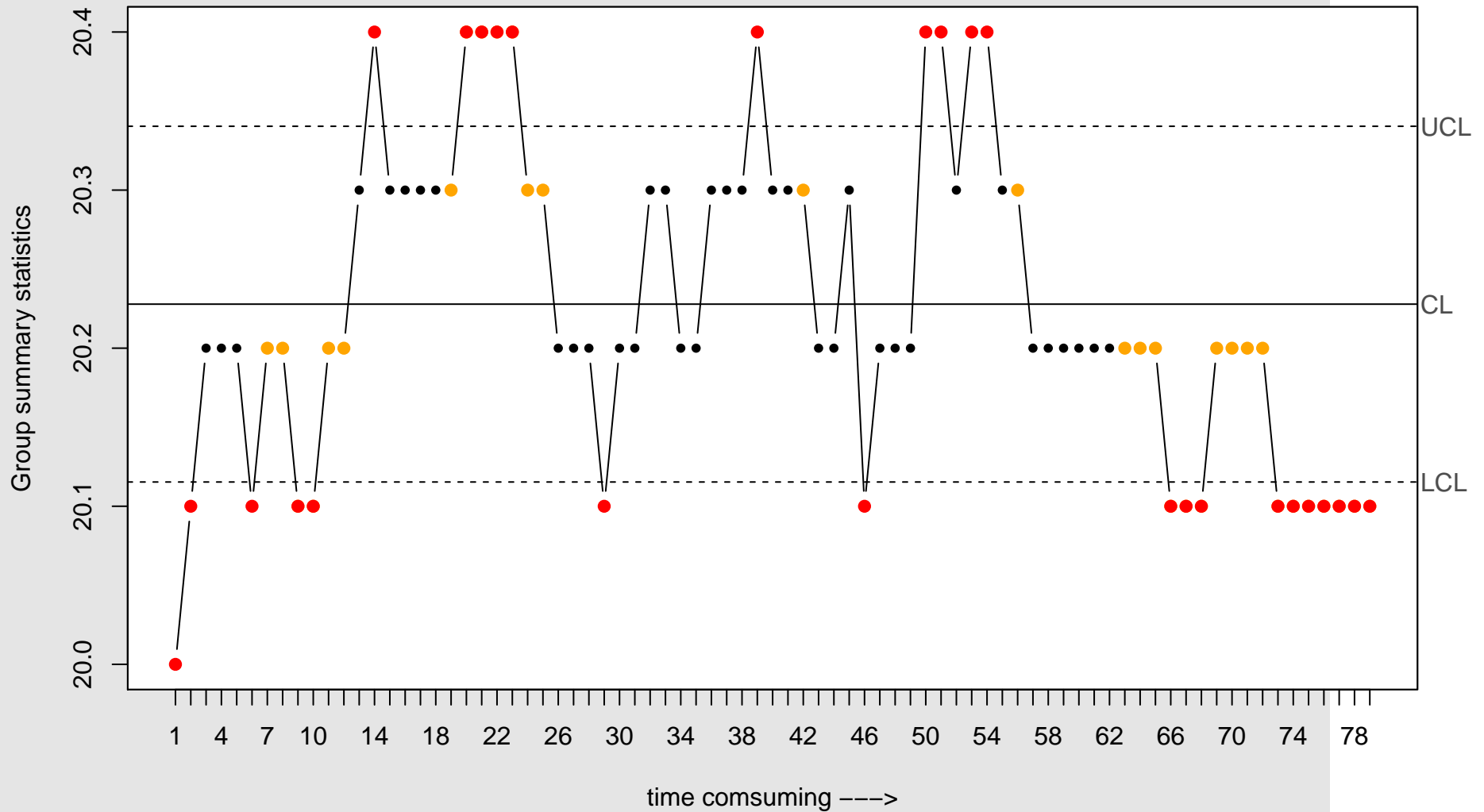


Number of groups = 79
Center = 20.22532
StdDev = 0.05114566

LCL = 20.07188
UCL = 20.37875

Number beyond limits = 12
Number violating runs = 13

70th column point of this product

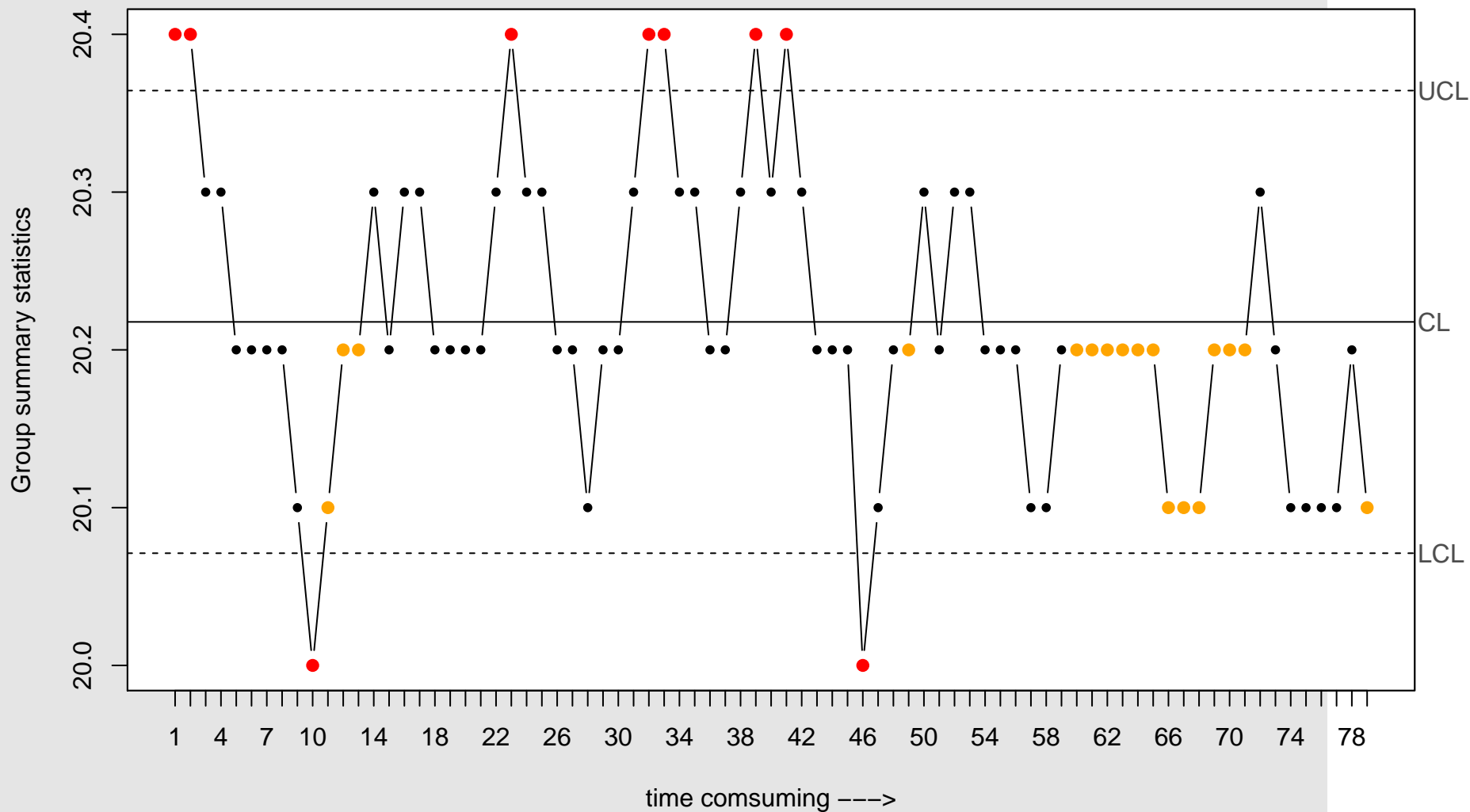


Number of groups = 79
Center = 20.22785
StdDev = 0.03750682

LCL = 20.11533
UCL = 20.34037

Number beyond limits = 27
Number violating runs = 32

71th column point of this product

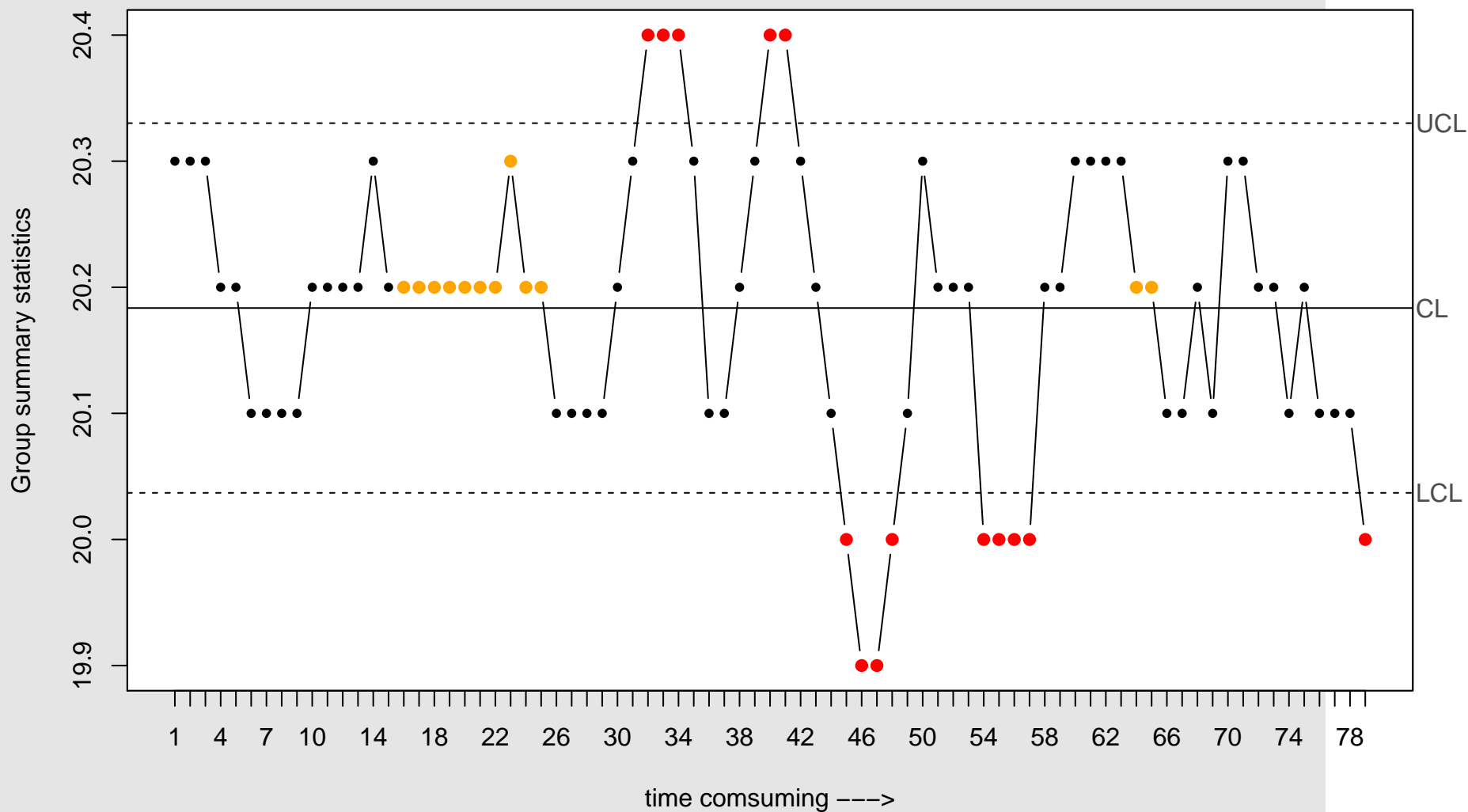


Number of groups = 79
Center = 20.21772
StdDev = 0.04887252

LCL = 20.0711
UCL = 20.36434

Number beyond limits = 9
Number violating runs = 17

72th column point of this product

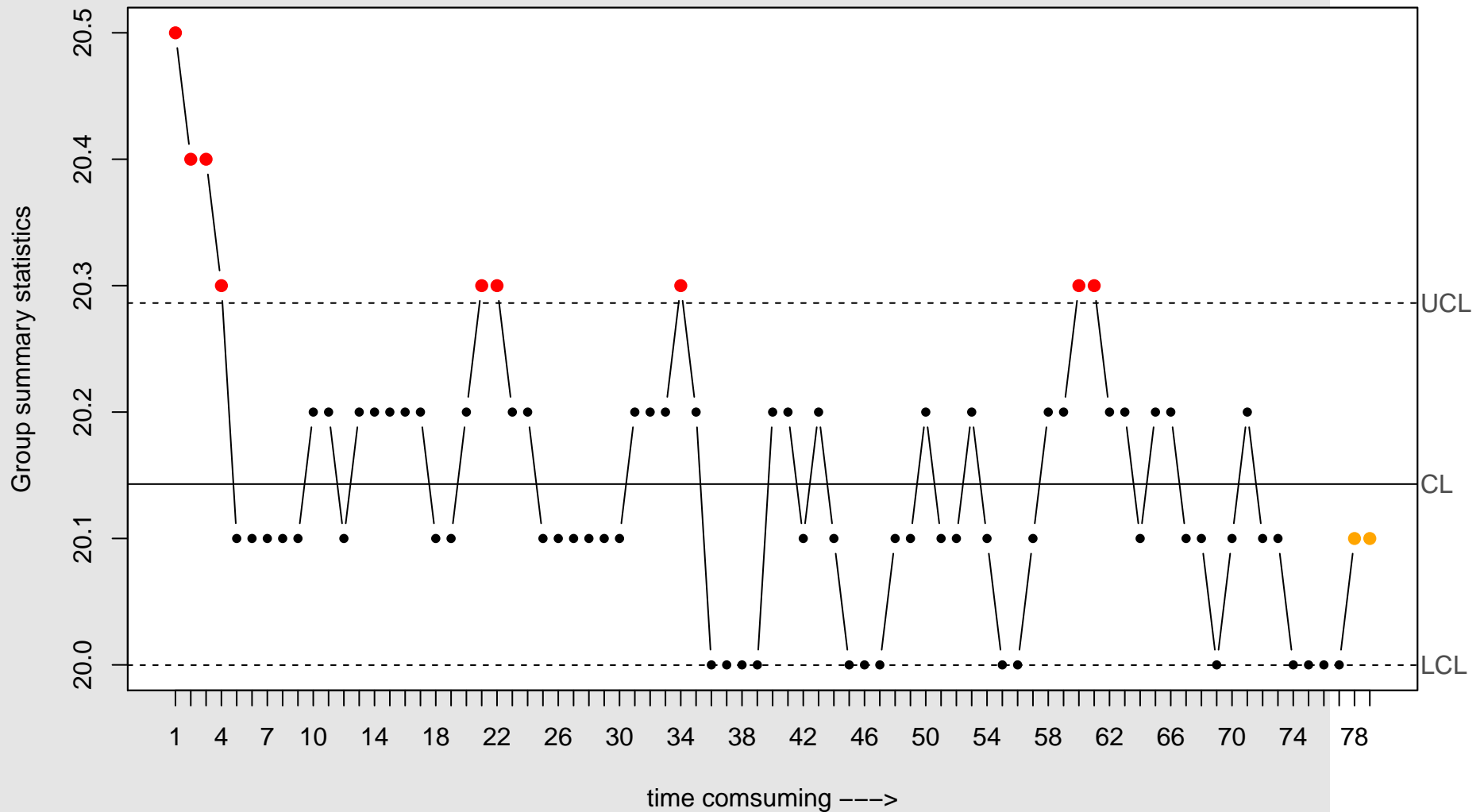


Number of groups = 79
 Center = 20.18354
 StdDev = 0.04887252

LCL = 20.03693
 UCL = 20.33016

Number beyond limits = 14
 Number violating runs = 12

73th column point of this product

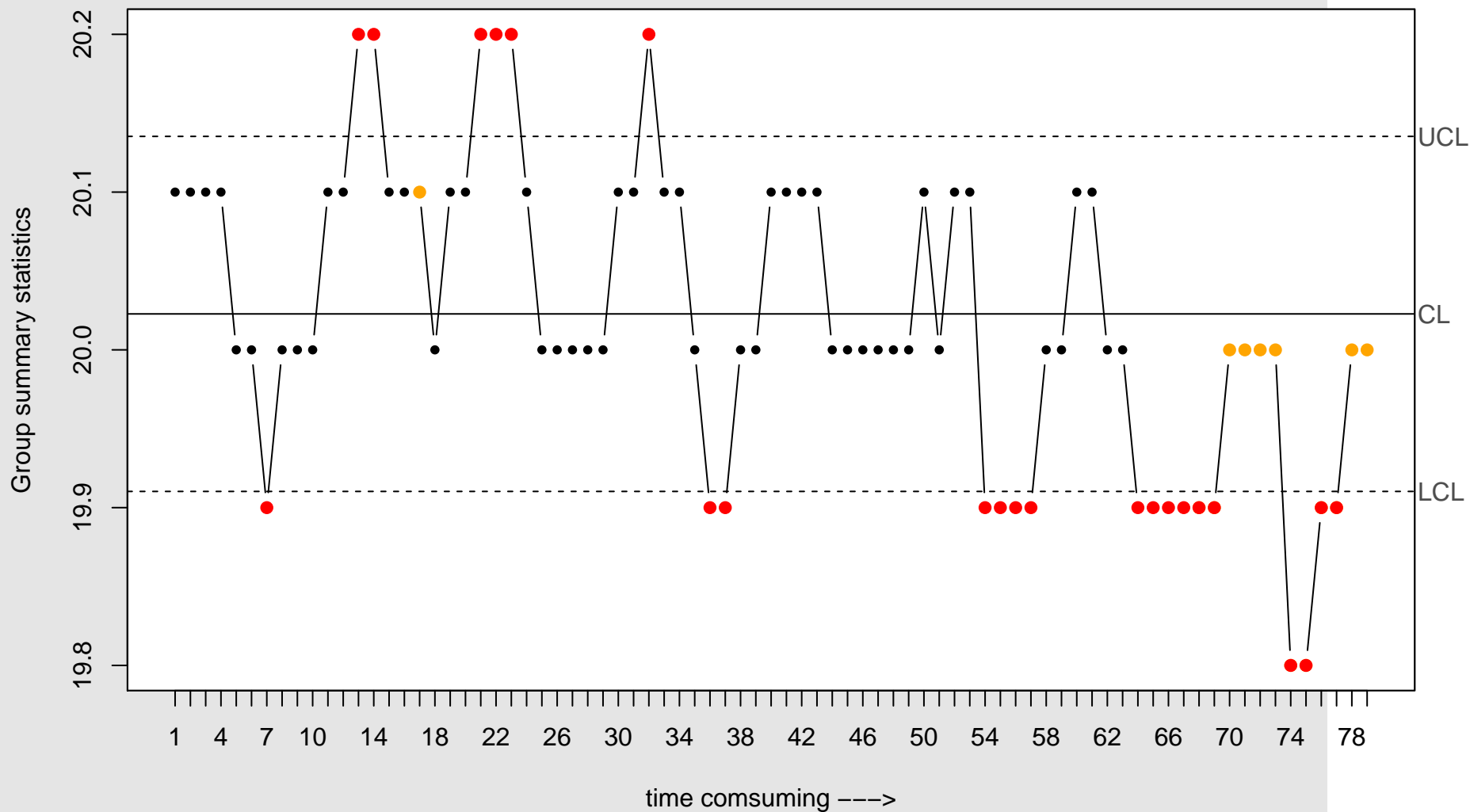


Number of groups = 79
 Center = 20.14304
 StdDev = 0.04773595

LCL = 19.99983
 UCL = 20.28625

Number beyond limits = 9
 Number violating runs = 2

74th column point of this product

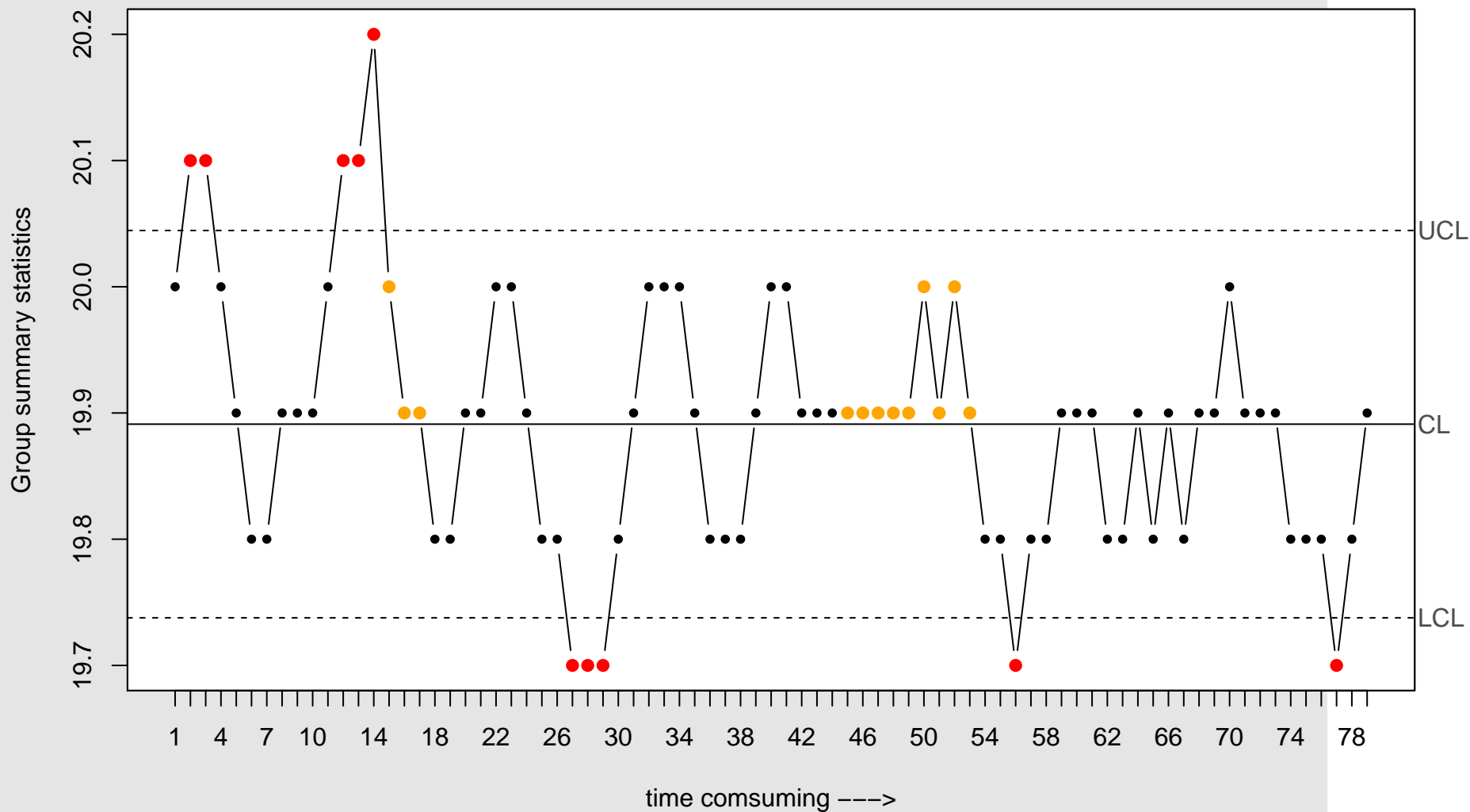


Number of groups = 79
Center = 20.02278
StdDev = 0.03750682

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

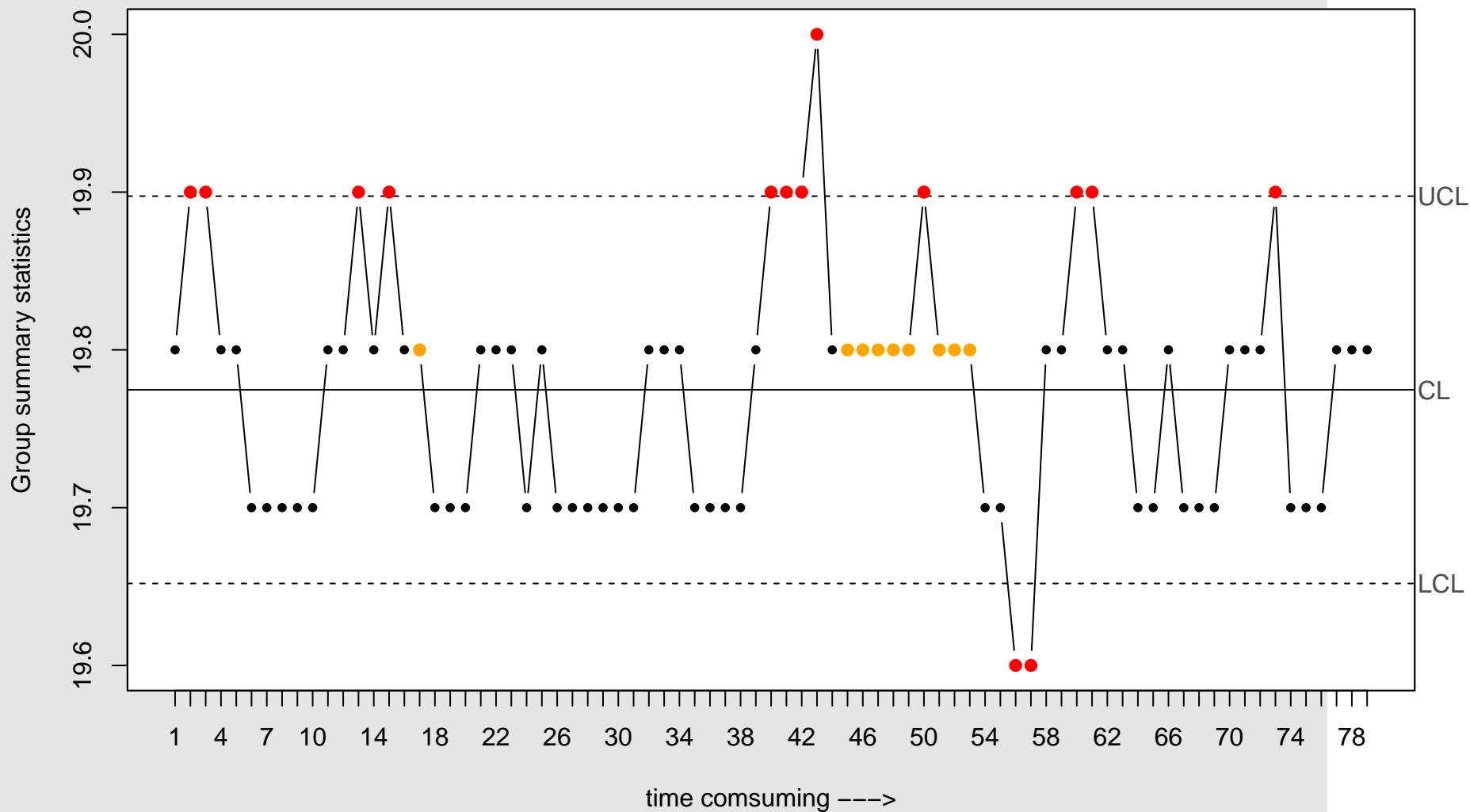
LCL = 19.7377

UCL = 20.04458

Number beyond limits = 10

Number violating runs = 13

76th column point of this product

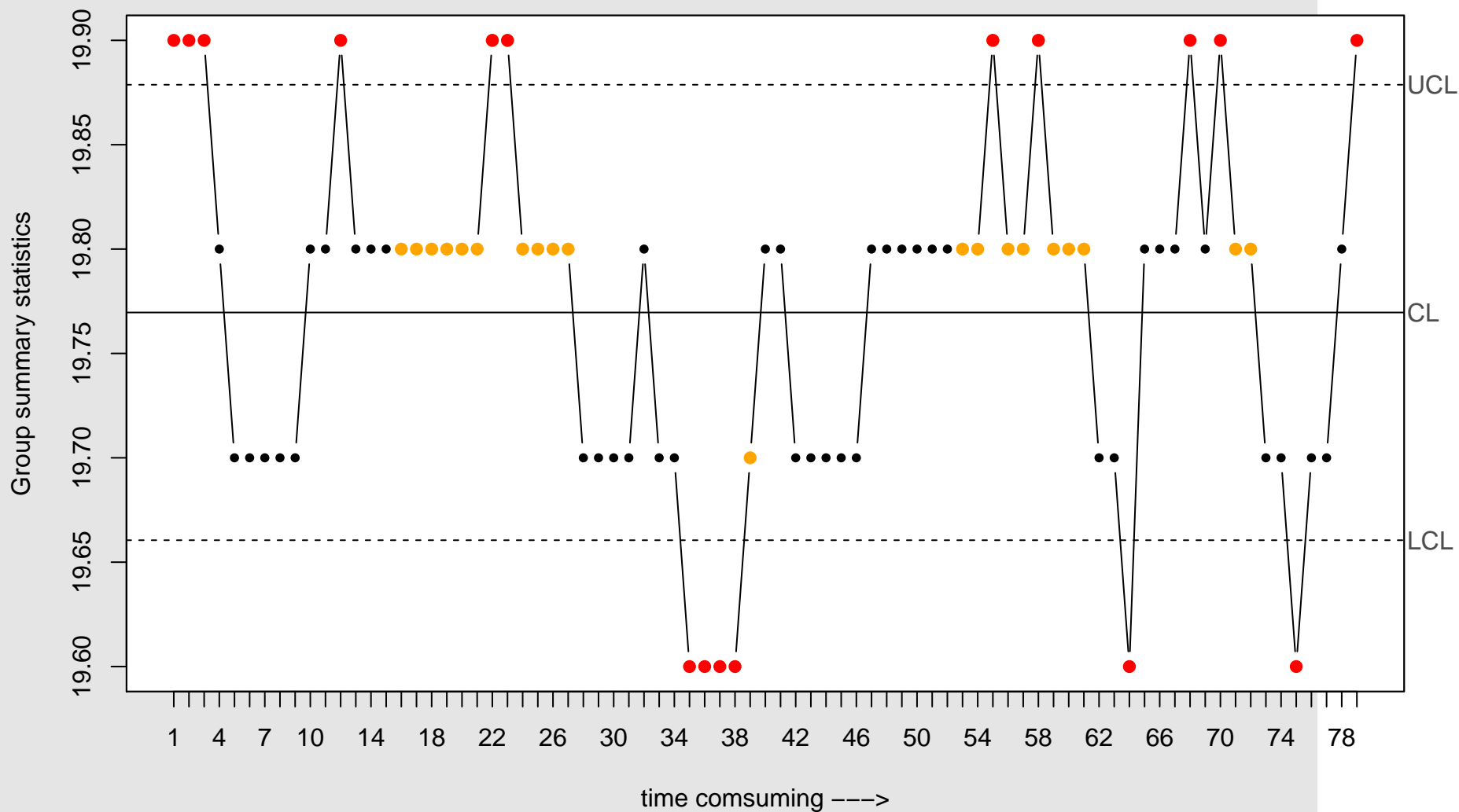


Number of groups = 79
Center = 19.77468
StdDev = 0.04091653

LCL = 19.65193
UCL = 19.89743

Number beyond limits = 14
Number violating runs = 10

77th column point of this product

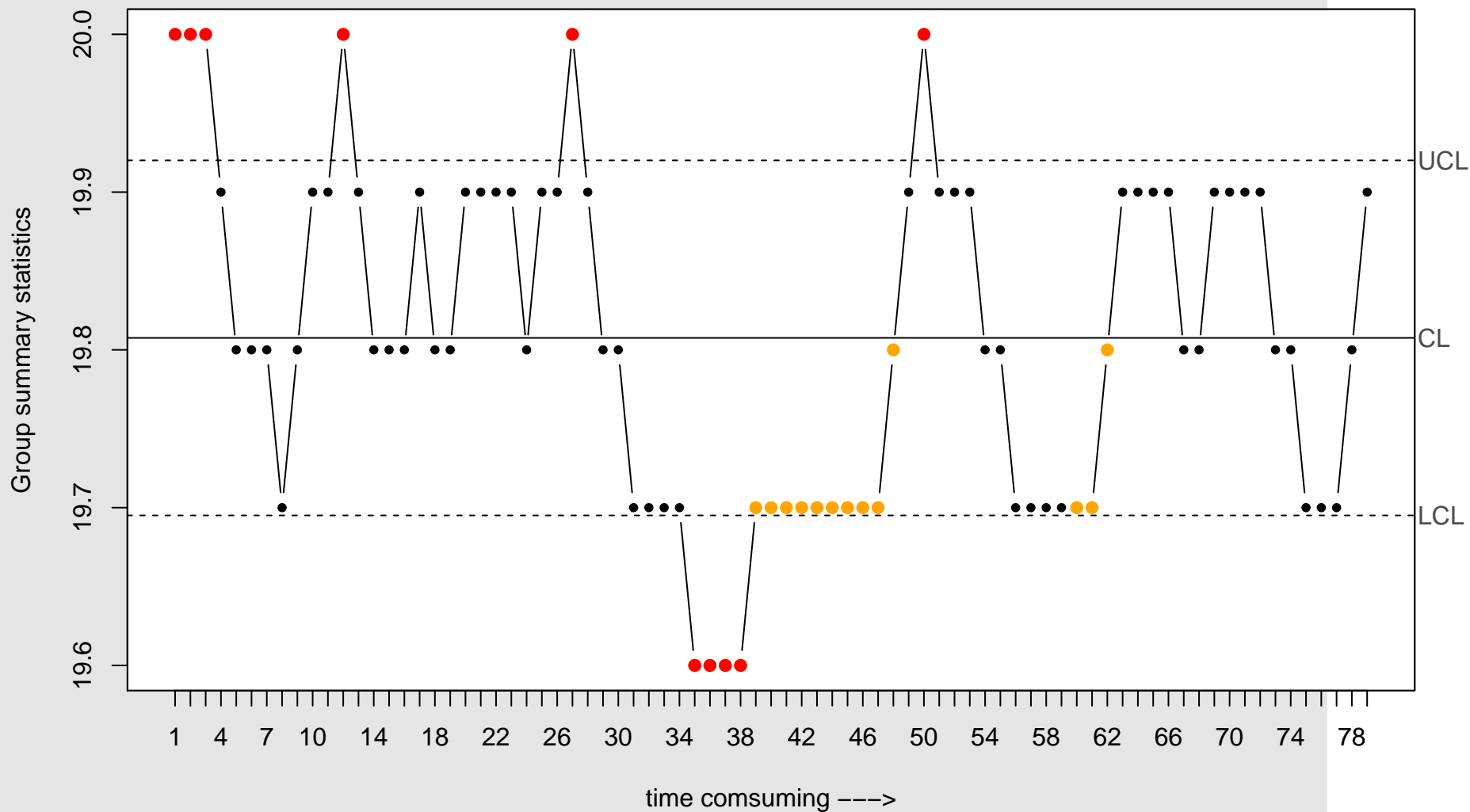


Number of groups = 79
Center = 19.76962
StdDev = 0.03637025

LCL = 19.66051
UCL = 19.87873

Number beyond limits = 17
Number violating runs = 24

78th column point of this product

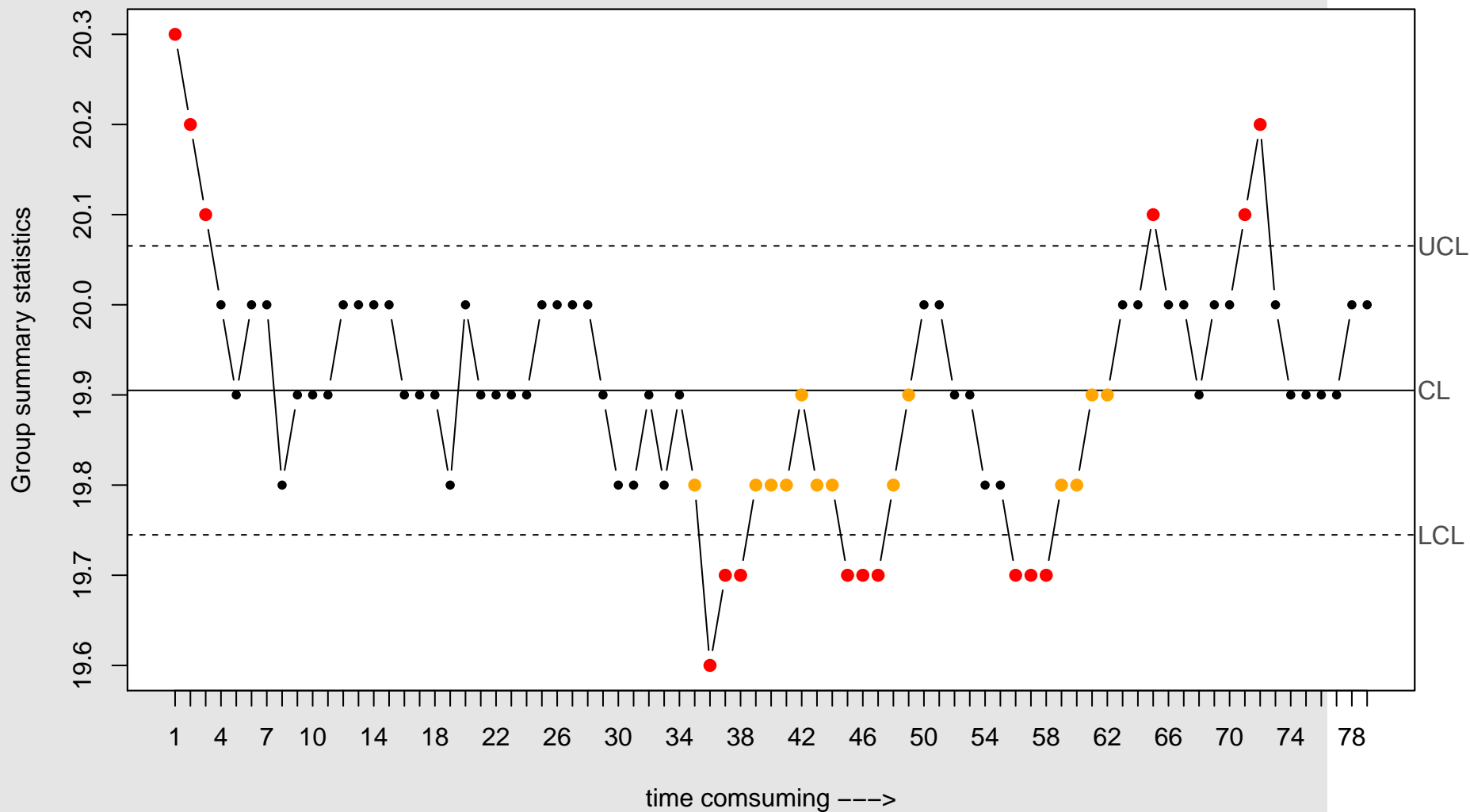


Number of groups = 79
Center = 19.80759
StdDev = 0.03750682

LCL = 19.69507
UCL = 19.92012

Number beyond limits = 10
Number violating runs = 17

79th column point of this product

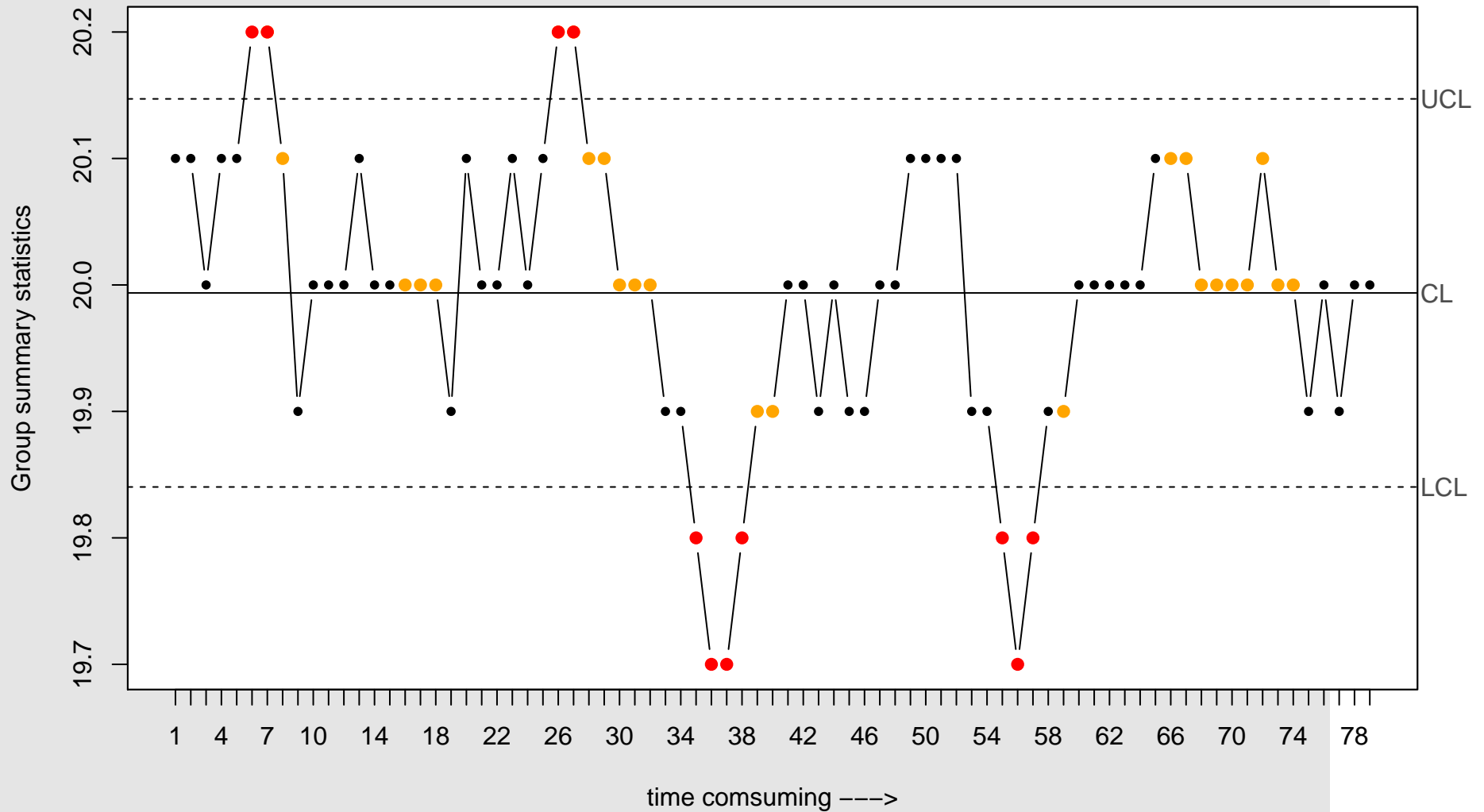


Number of groups = 79
Center = 19.90506
StdDev = 0.0534188

LCL = 19.74481
UCL = 20.06532

Number beyond limits = 15
Number violating runs = 20

80th column point of this product

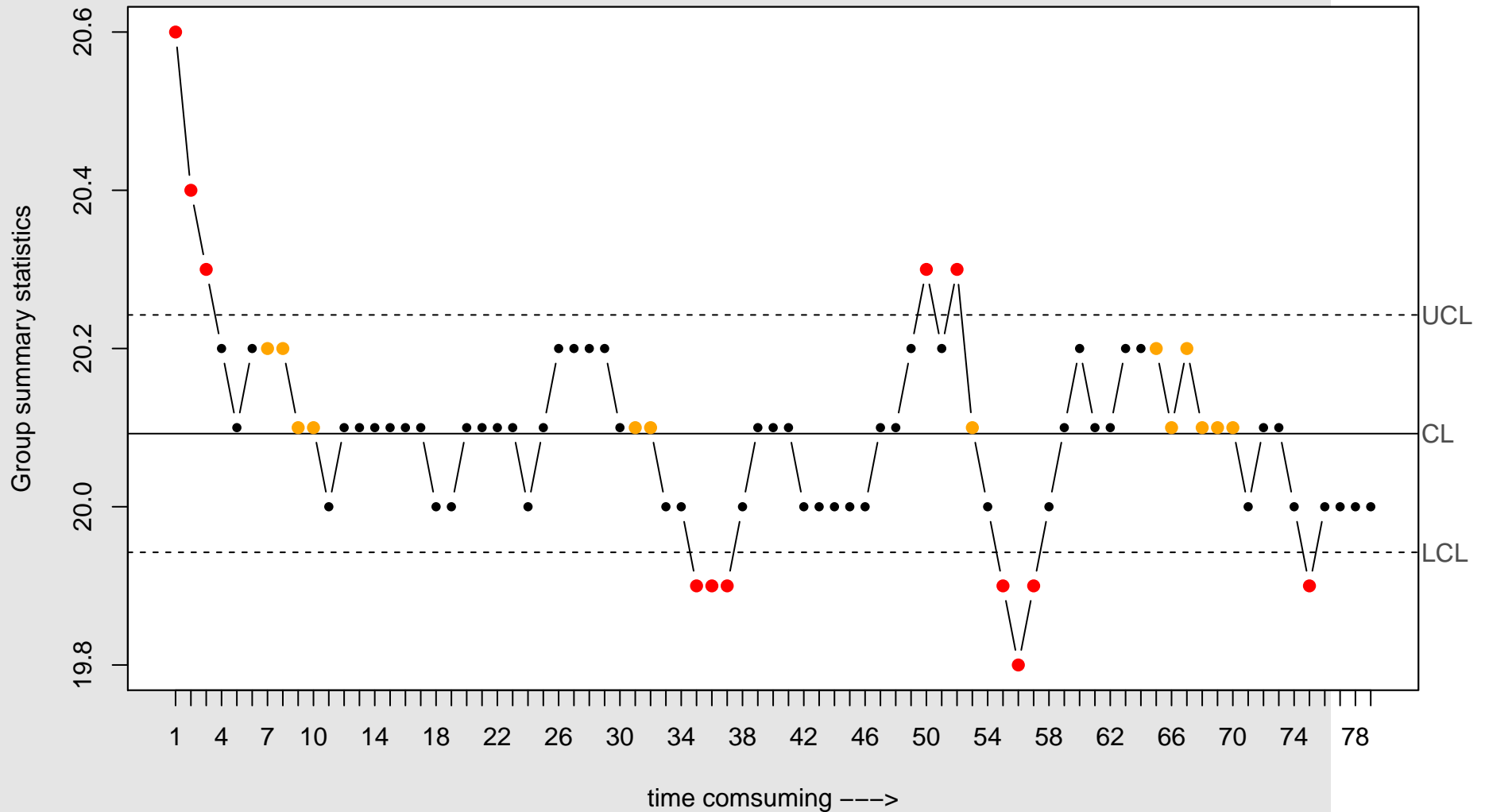


Number of groups = 79
Center = 19.99367
StdDev = 0.05114566

LCL = 19.84023
UCL = 20.14711

Number beyond limits = 11
Number violating runs = 24

81th column point of this product

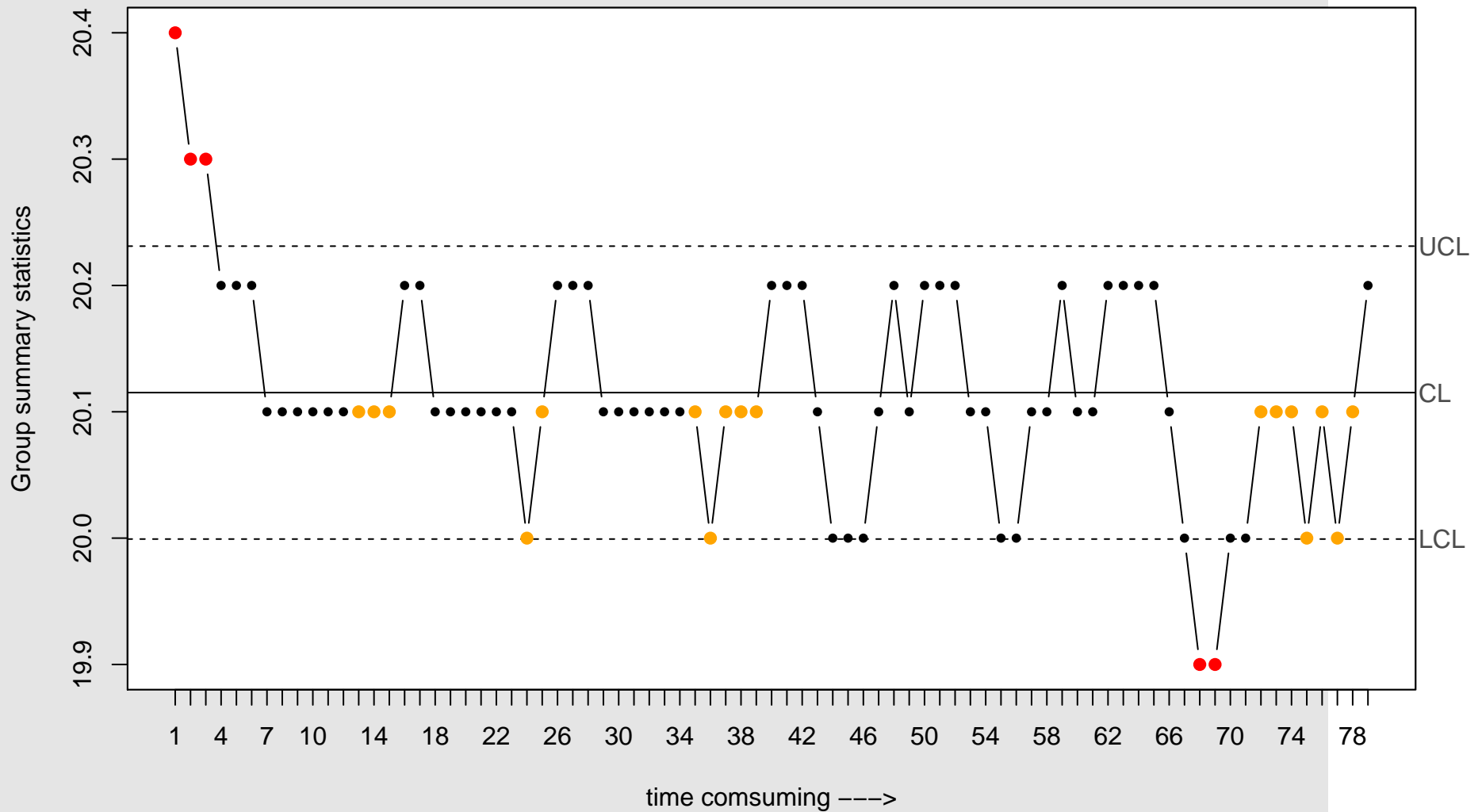


Number of groups = 79
Center = 20.09241
StdDev = 0.05000909

LCL = 19.94238
UCL = 20.24243

Number beyond limits = 12
Number violating runs = 13

82th column point of this product

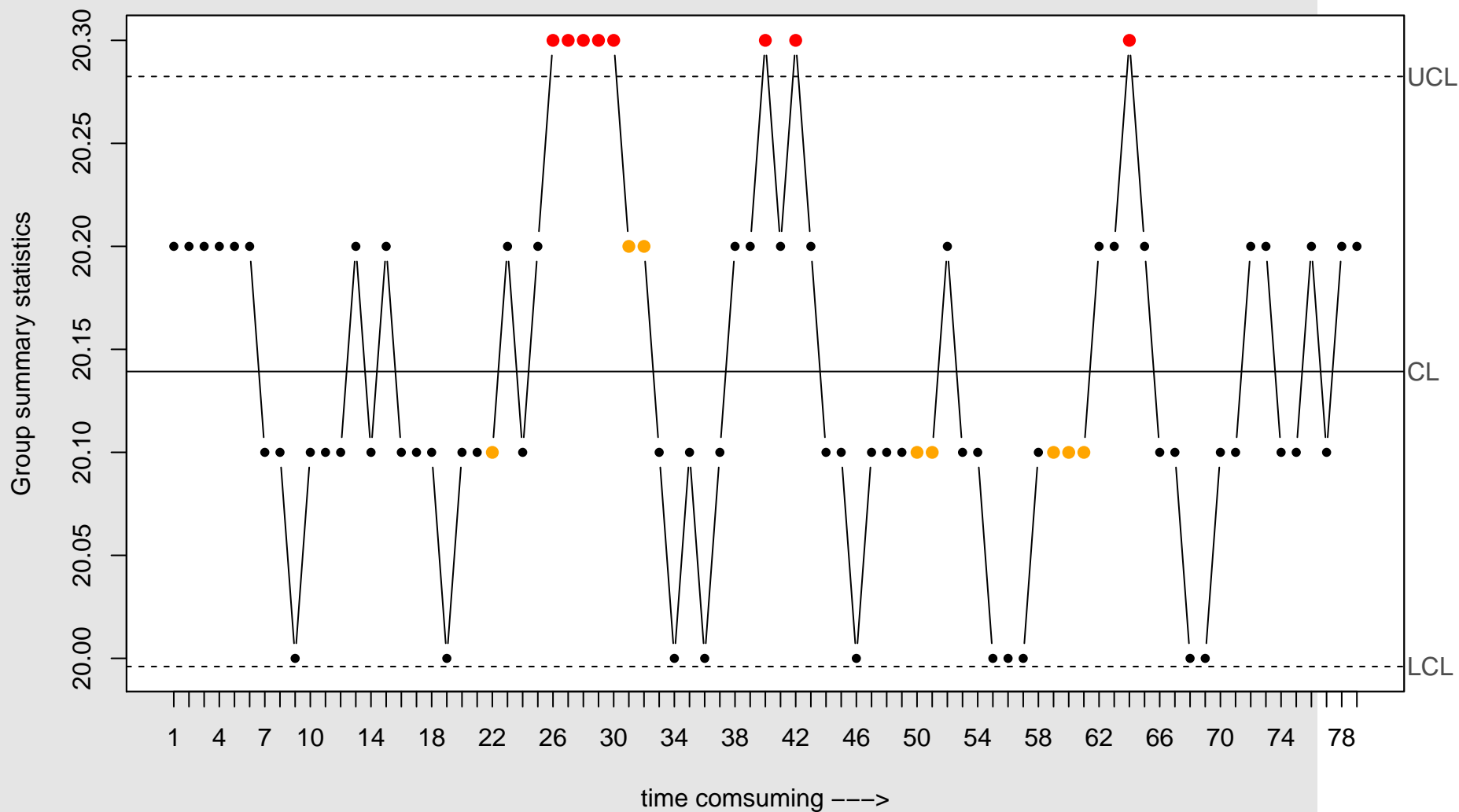


Number of groups = 79
 Center = 20.11519
 StdDev = 0.03864339

LCL = 19.99926
 UCL = 20.23112

Number beyond limits = 5
 Number violating runs = 17

83th column point of this product

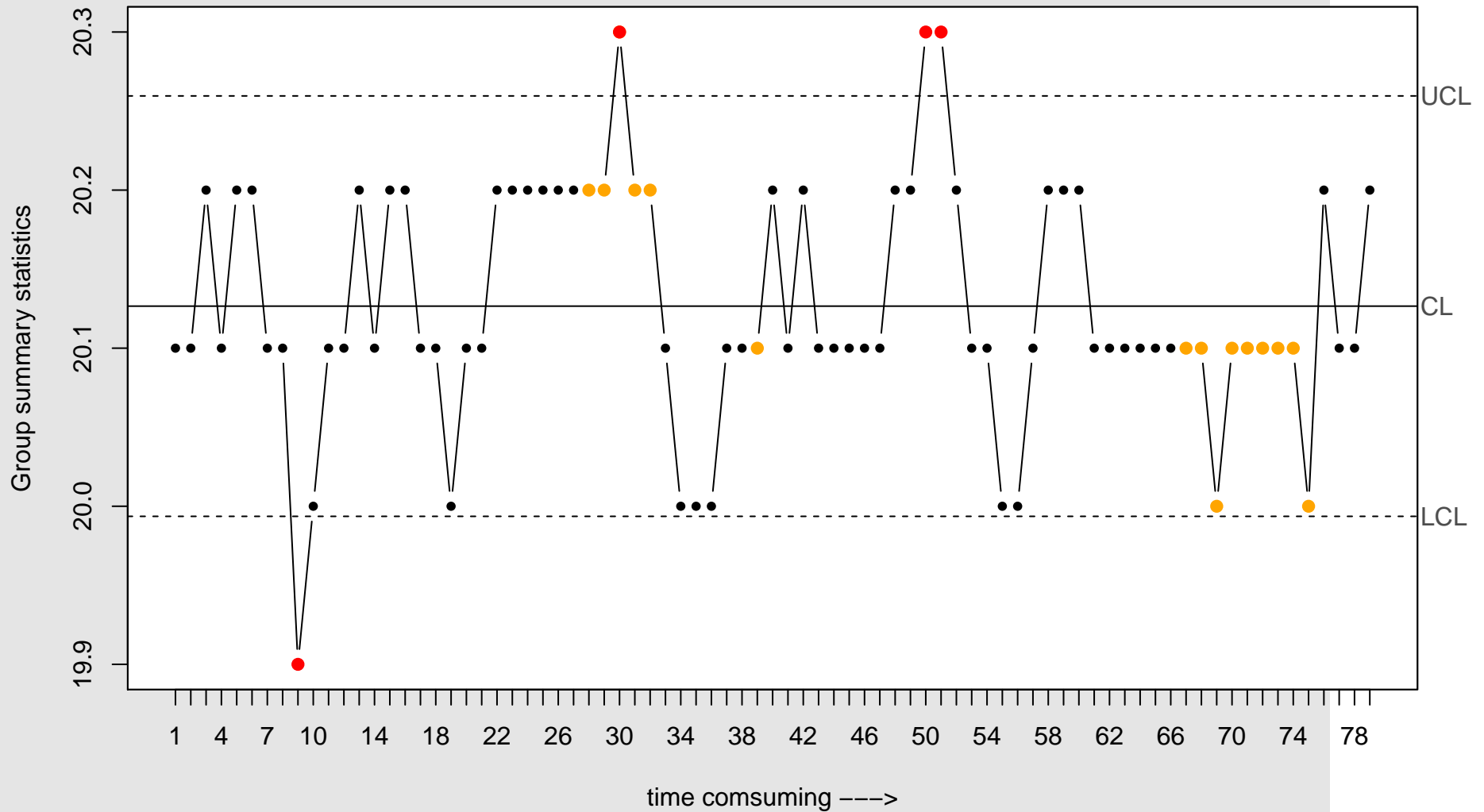


Number of groups = 79
Center = 20.13924
StdDev = 0.04773595

LCL = 19.99603
UCL = 20.28245

Number beyond limits = 8
Number violating runs = 8

84th column point of this product

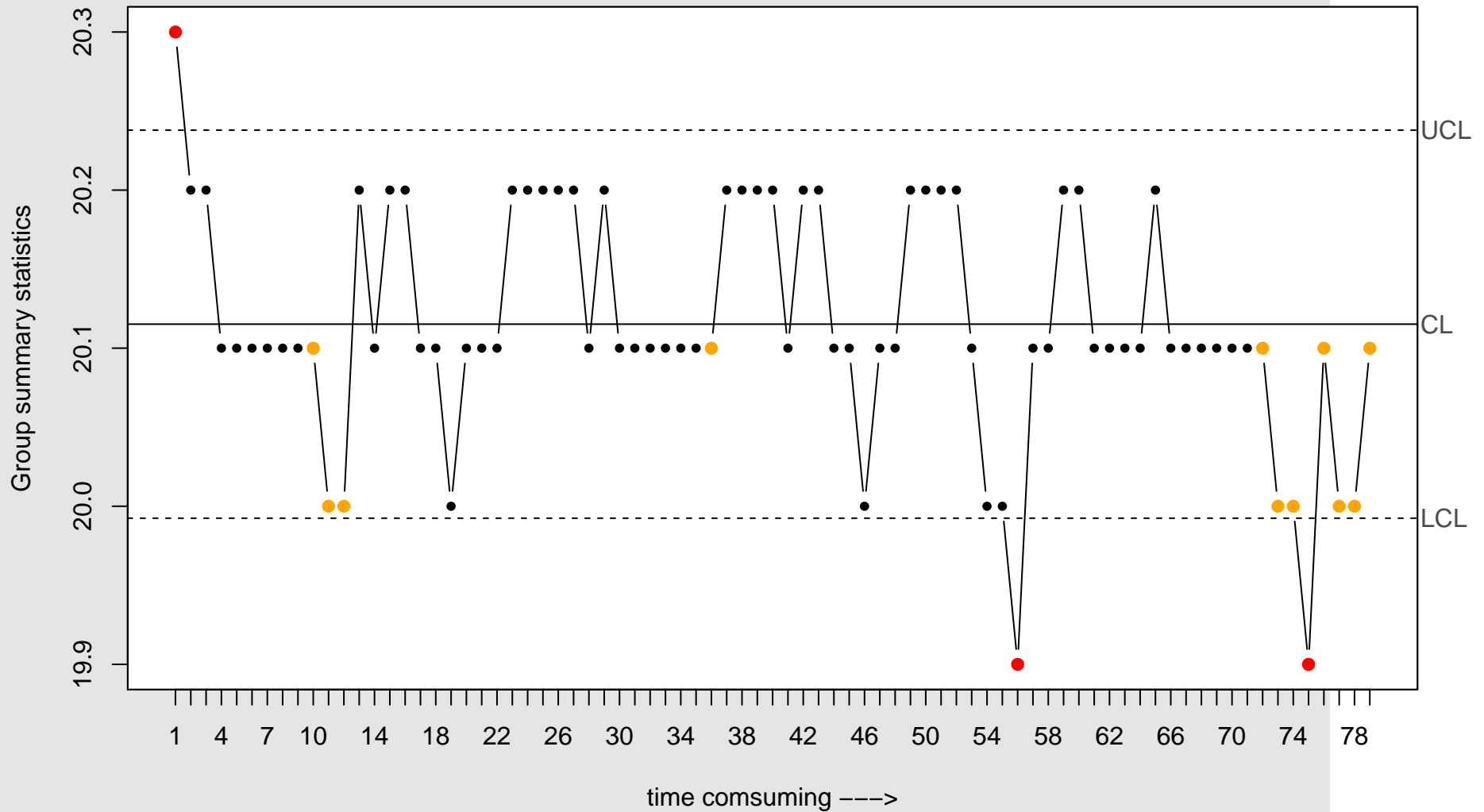


Number of groups = 79
 Center = 20.12658
 StdDev = 0.04432624

LCL = 19.9936
 UCL = 20.25956

Number beyond limits = 4
 Number violating runs = 15

85th column point of this product

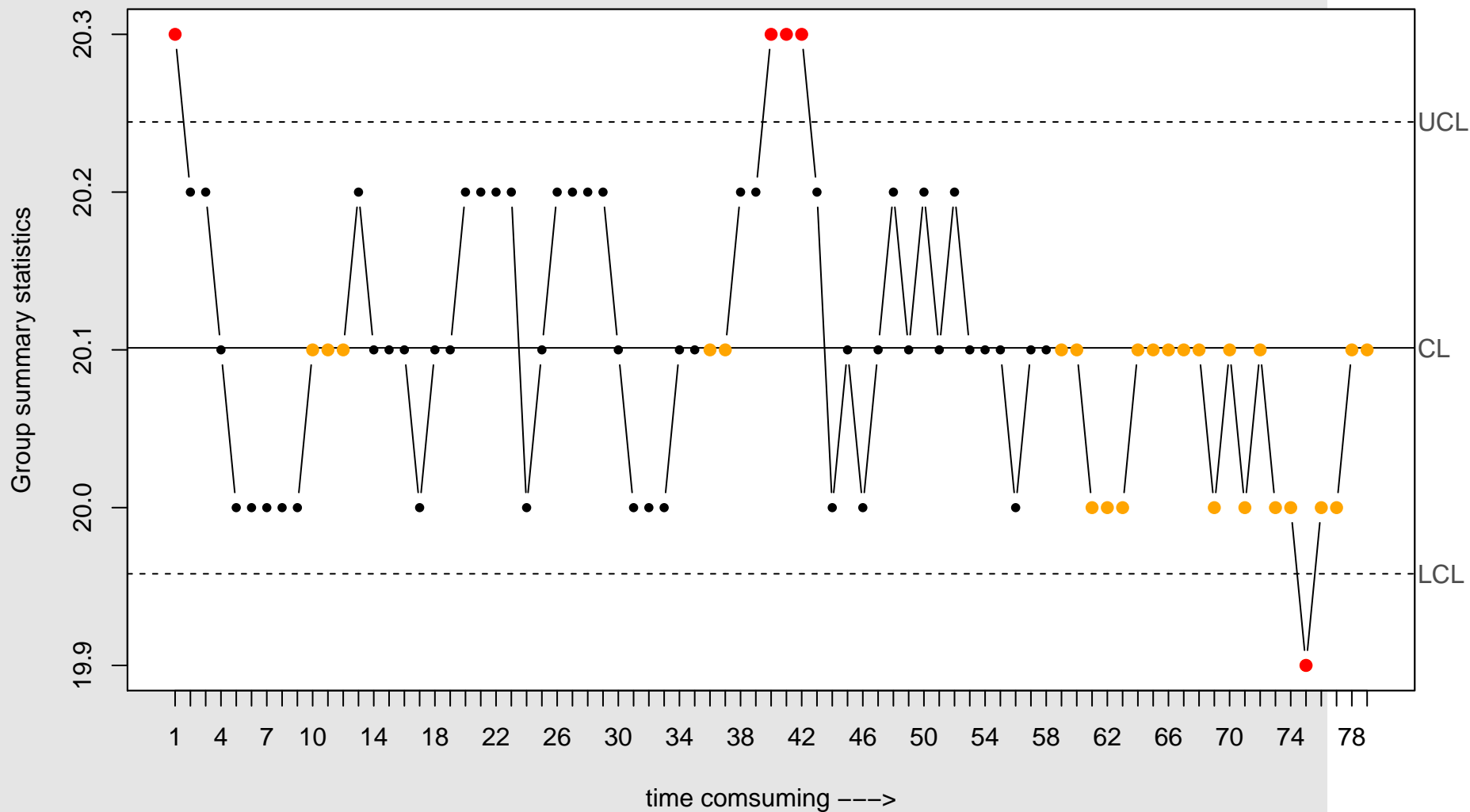


Number of groups = 79
Center = 20.11519
StdDev = 0.04091653

LCL = 19.99244
UCL = 20.23794

Number beyond limits = 3
Number violating runs = 12

86th column point of this product

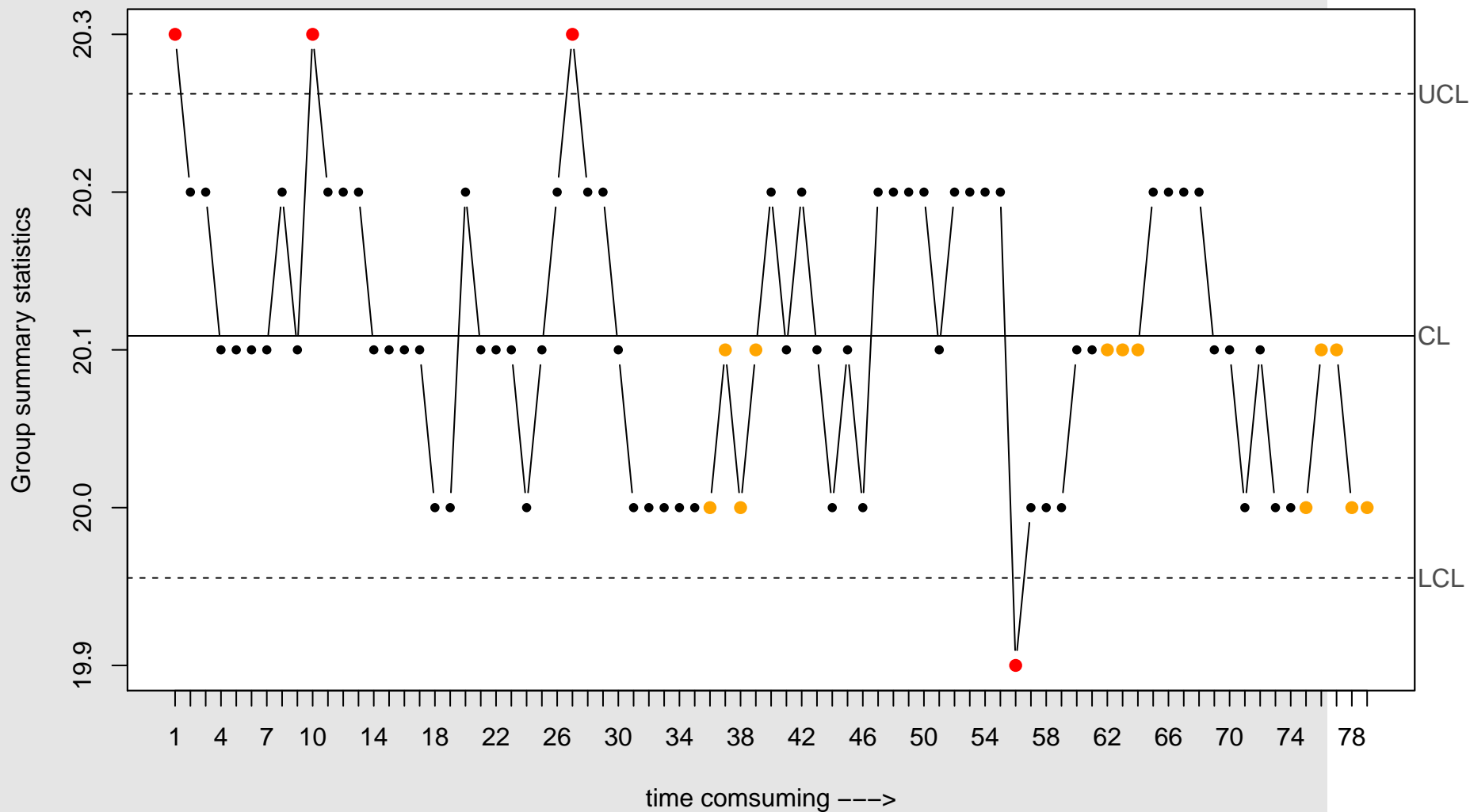


Number of groups = 79
 Center = 20.10127
 StdDev = 0.04773595

LCL = 19.95806
 UCL = 20.24447

Number beyond limits = 5
 Number violating runs = 26

87th column point of this product

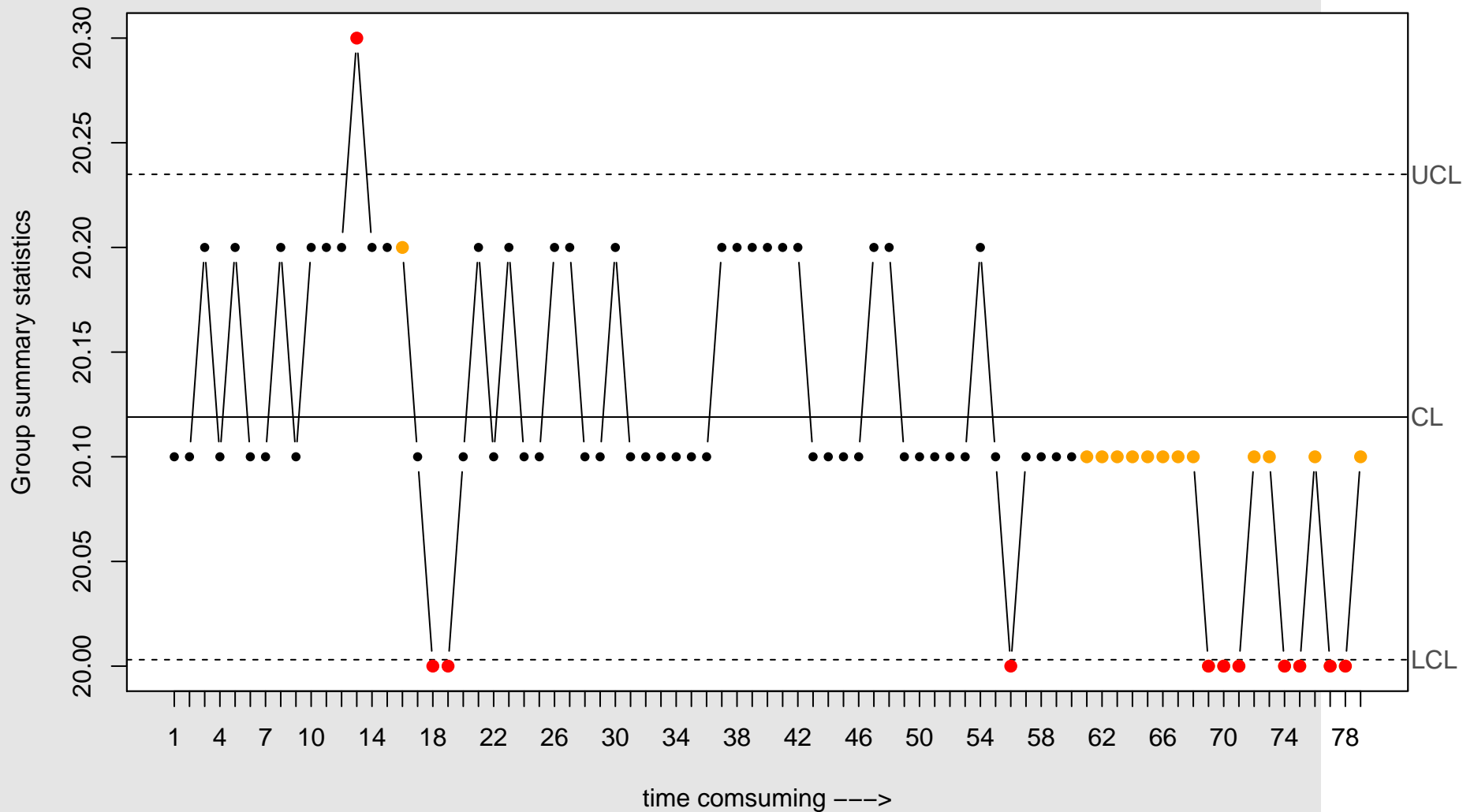


Number of groups = 79
Center = 20.10886
StdDev = 0.05114566

LCL = 19.95542
UCL = 20.2623

Number beyond limits = 4
Number violating runs = 12

88th column point of this product

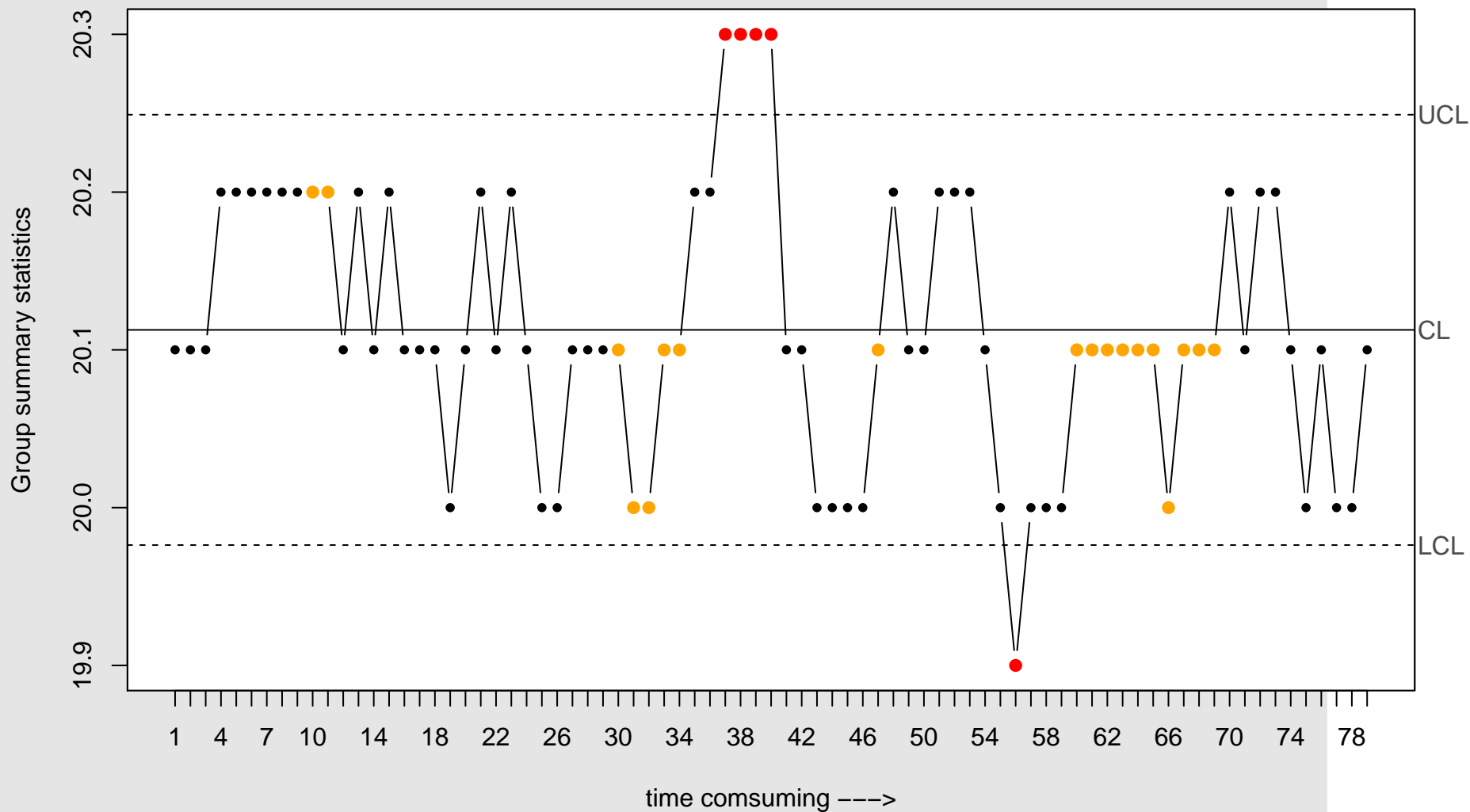


Number of groups = 79
 Center = 20.11899
 StdDev = 0.03864339

LCL = 20.00306
 UCL = 20.23492

Number beyond limits = 11
 Number violating runs = 20

89th column point of this product

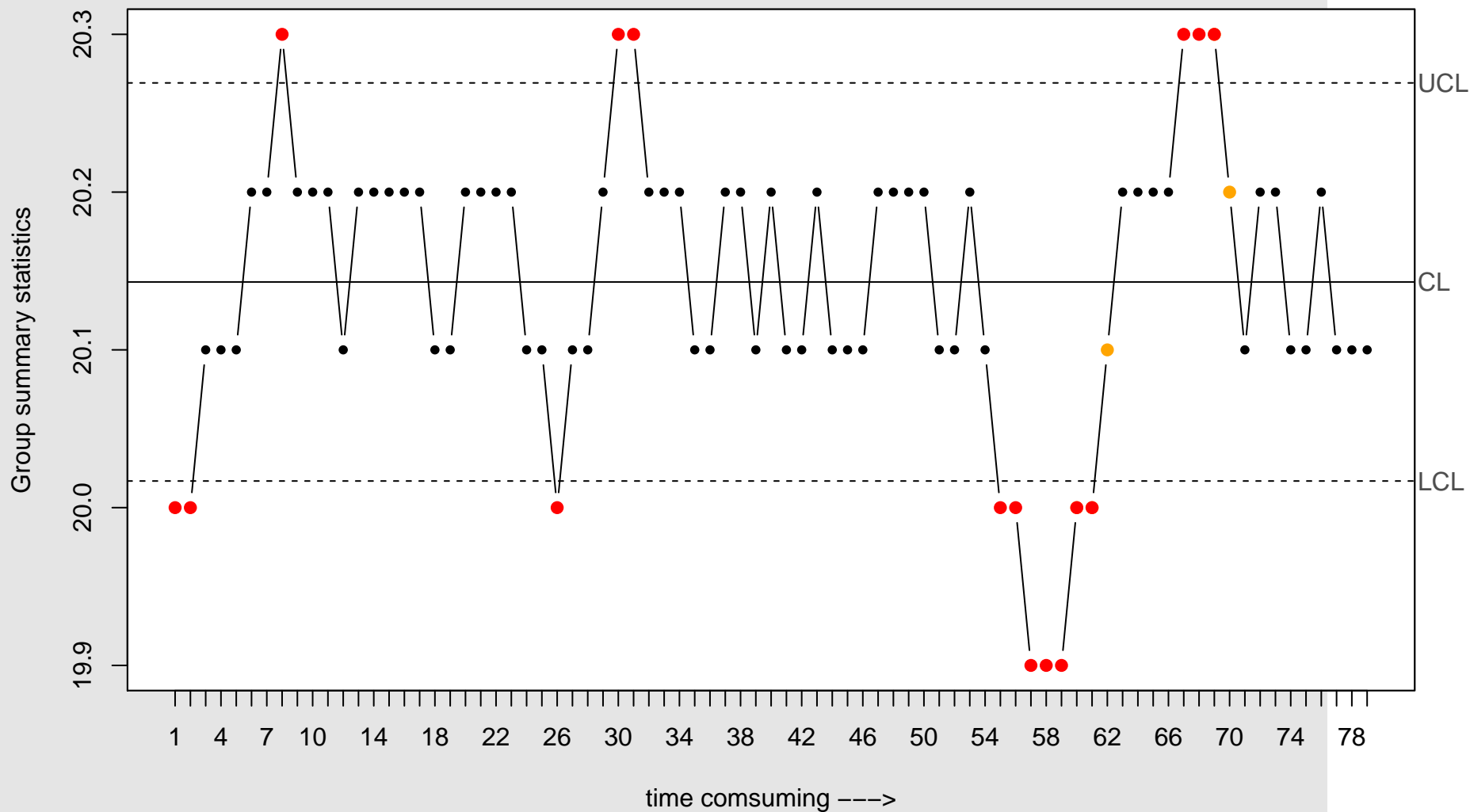


Number of groups = 79
Center = 20.11266
StdDev = 0.04546281

LCL = 19.97627
UCL = 20.24905

Number beyond limits = 5
Number violating runs = 18

90th column point of this product

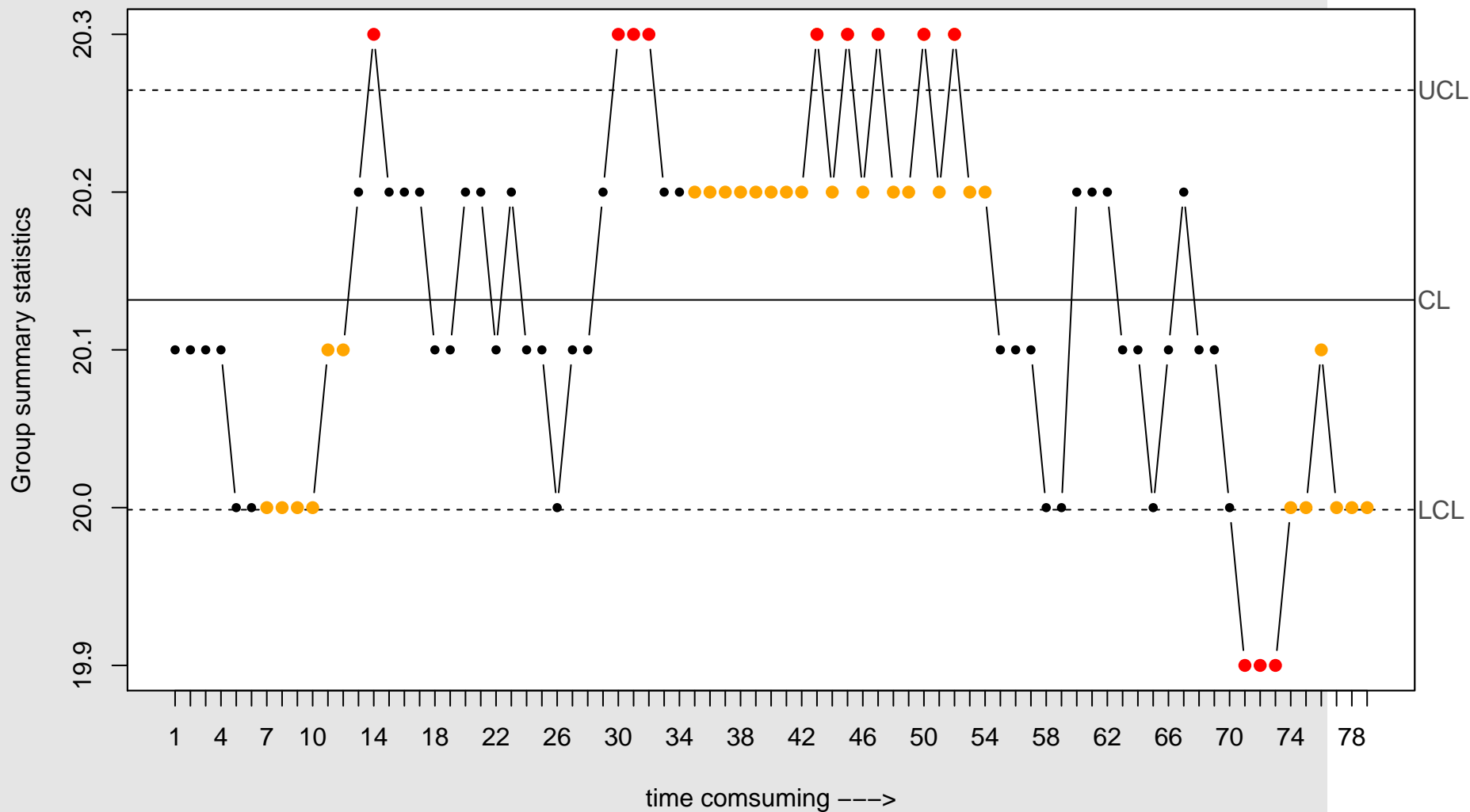


Number of groups = 79
Center = 20.14304
StdDev = 0.0420531

LCL = 20.01688
UCL = 20.2692

Number beyond limits = 16
Number violating runs = 5

91th column point of this product

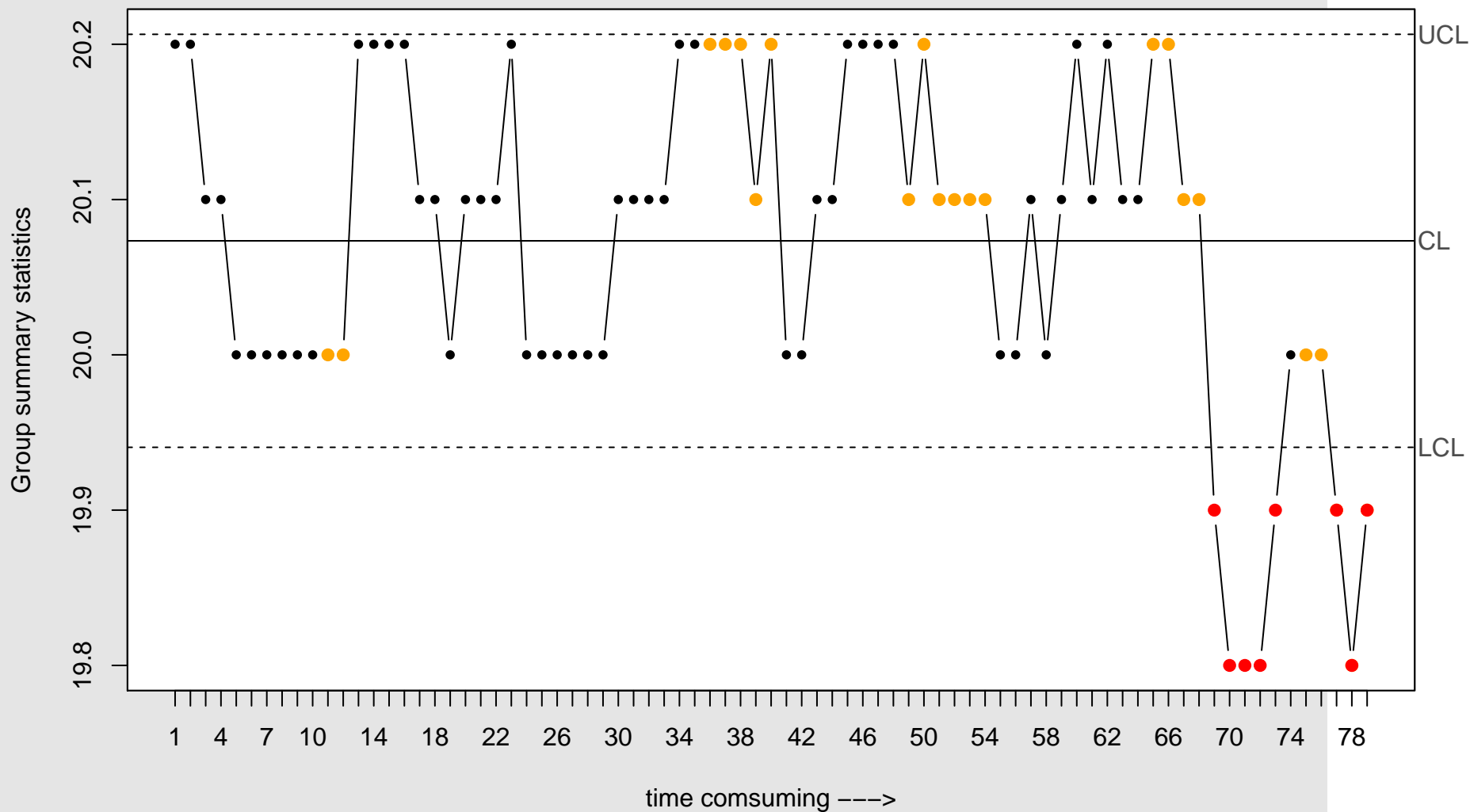


Number of groups = 79
 Center = 20.13165
 StdDev = 0.04432624

LCL = 19.99867
 UCL = 20.26462

Number beyond limits = 12
 Number violating runs = 32

92th column point of this product

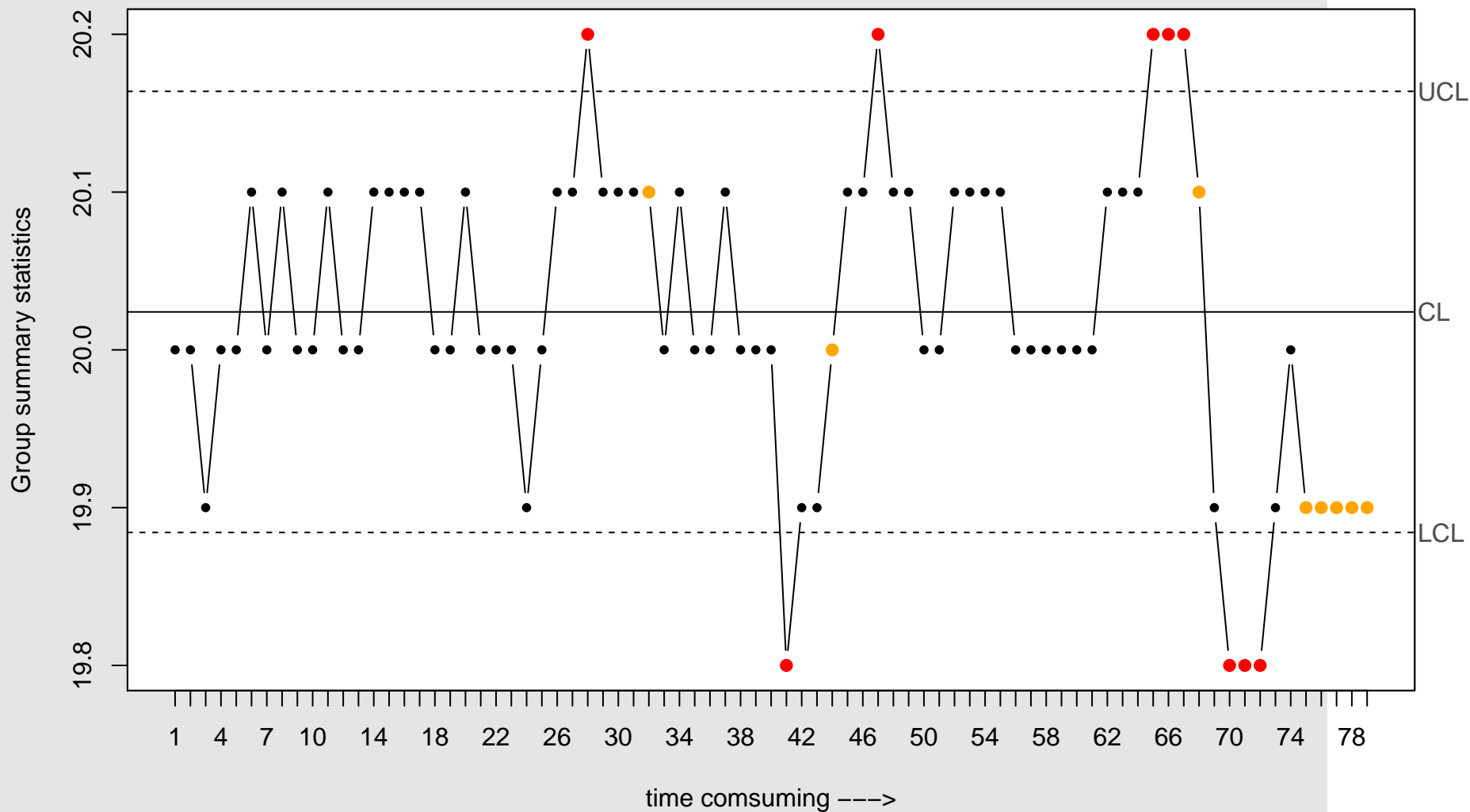


Number of groups = 79
 Center = 20.07342
 StdDev = 0.04432624

LCL = 19.94044
 UCL = 20.2064

Number beyond limits = 8
 Number violating runs = 22

93th column point of this product

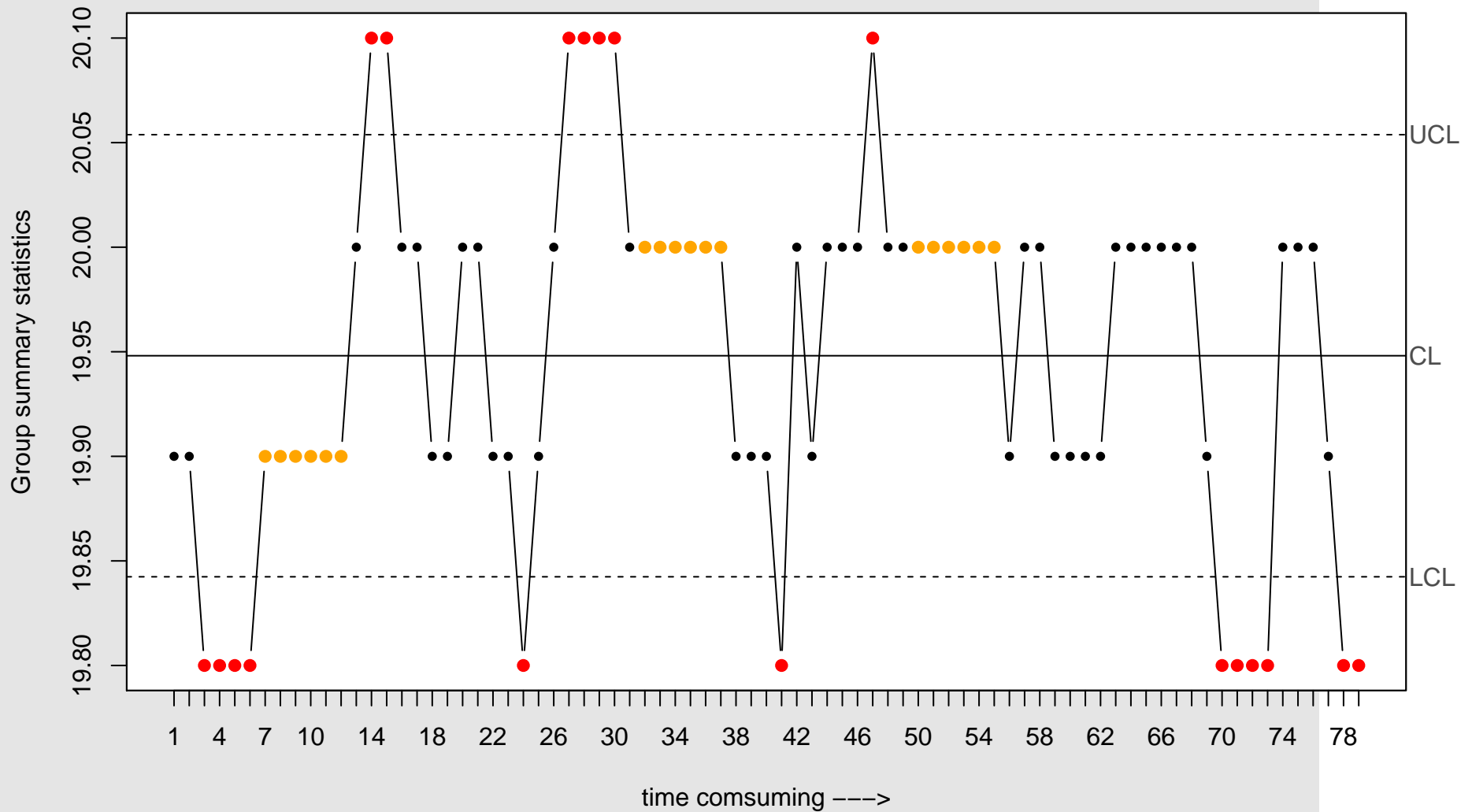


Number of groups = 79
 Center = 20.02405
 StdDev = 0.04659938

LCL = 19.88425
 UCL = 20.16385

Number beyond limits = 9
 Number violating runs = 8

94th column point of this product

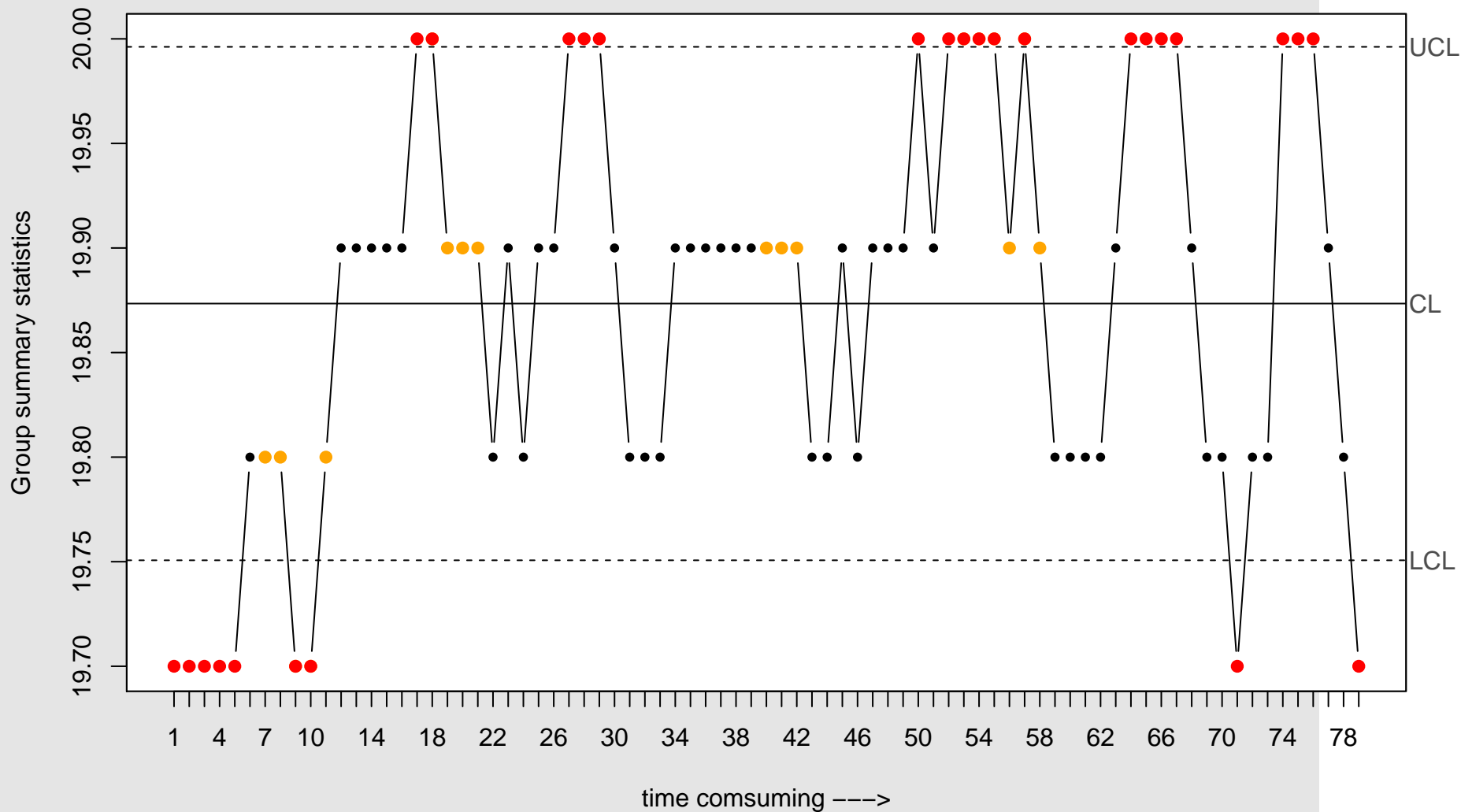


Number of groups = 79
 Center = 19.9481
 StdDev = 0.03523368

LCL = 19.8424
 UCL = 20.0538

Number beyond limits = 19
 Number violating runs = 18

95th column point of this product

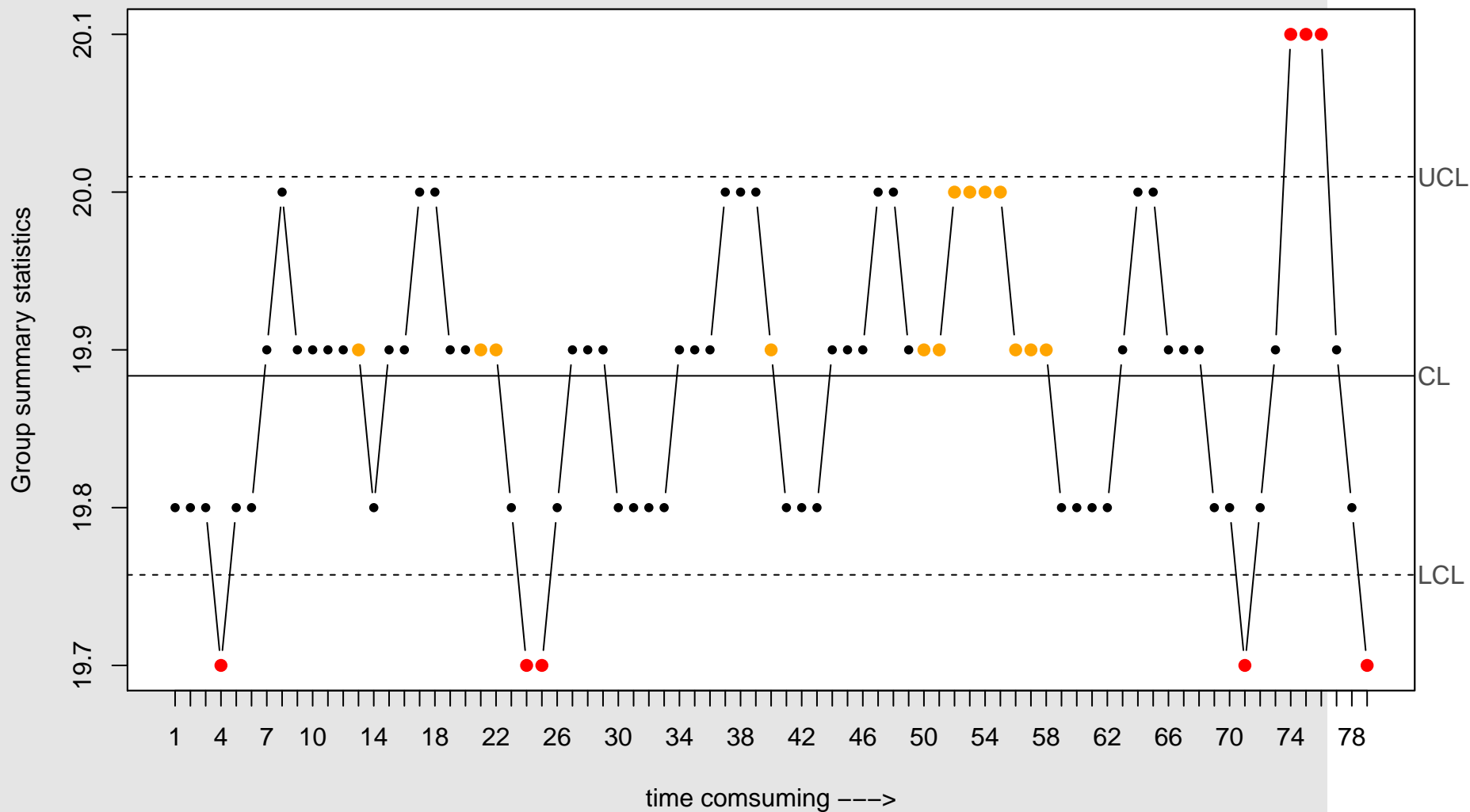


Number of groups = 79
Center = 19.87342
StdDev = 0.04091653

LCL = 19.75067
UCL = 19.99617

Number beyond limits = 27
Number violating runs = 18

96th column point of this product

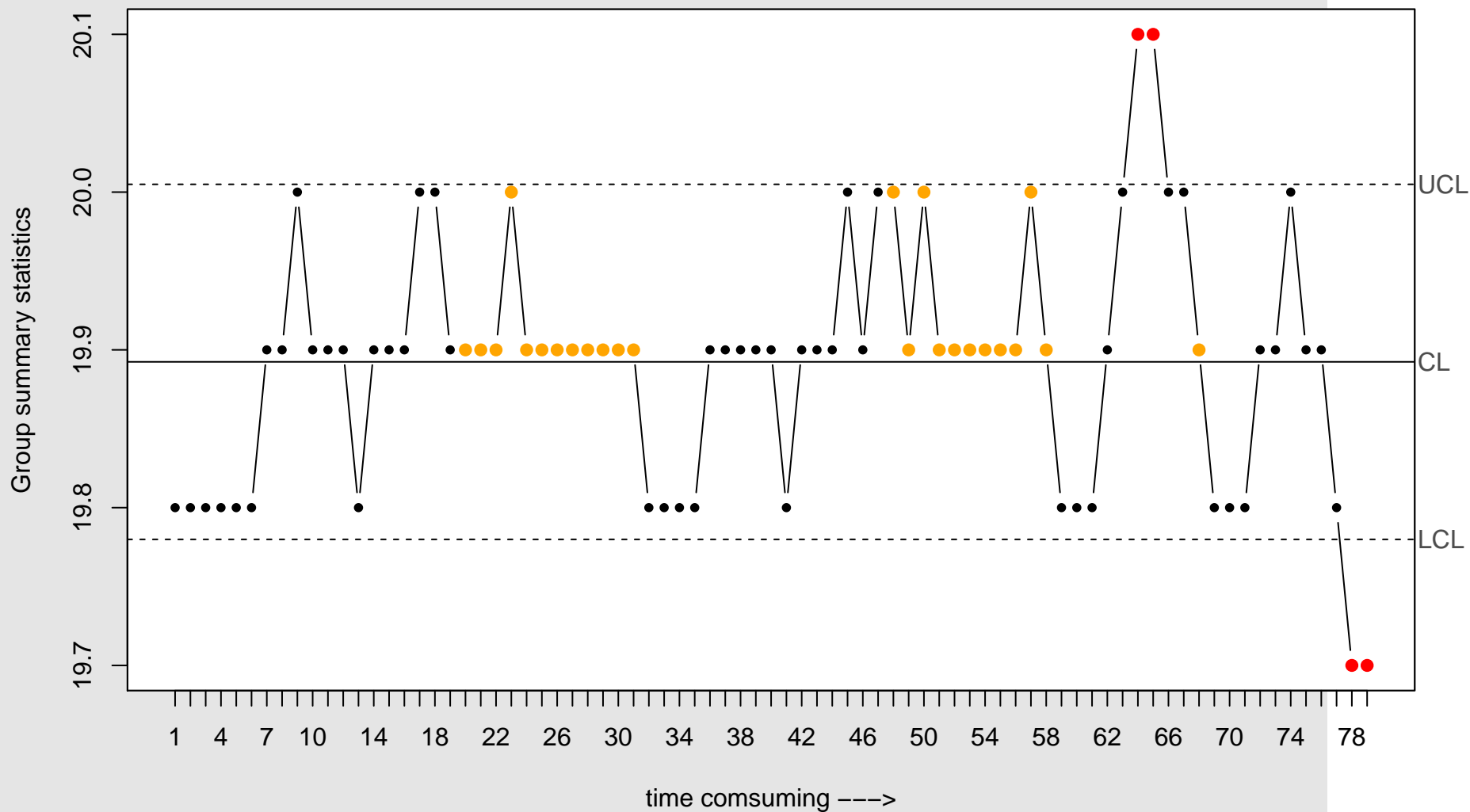


Number of groups = 79
Center = 19.88354
StdDev = 0.0420531

LCL = 19.75739
UCL = 20.0097

Number beyond limits = 8
Number violating runs = 13

97th column point of this product

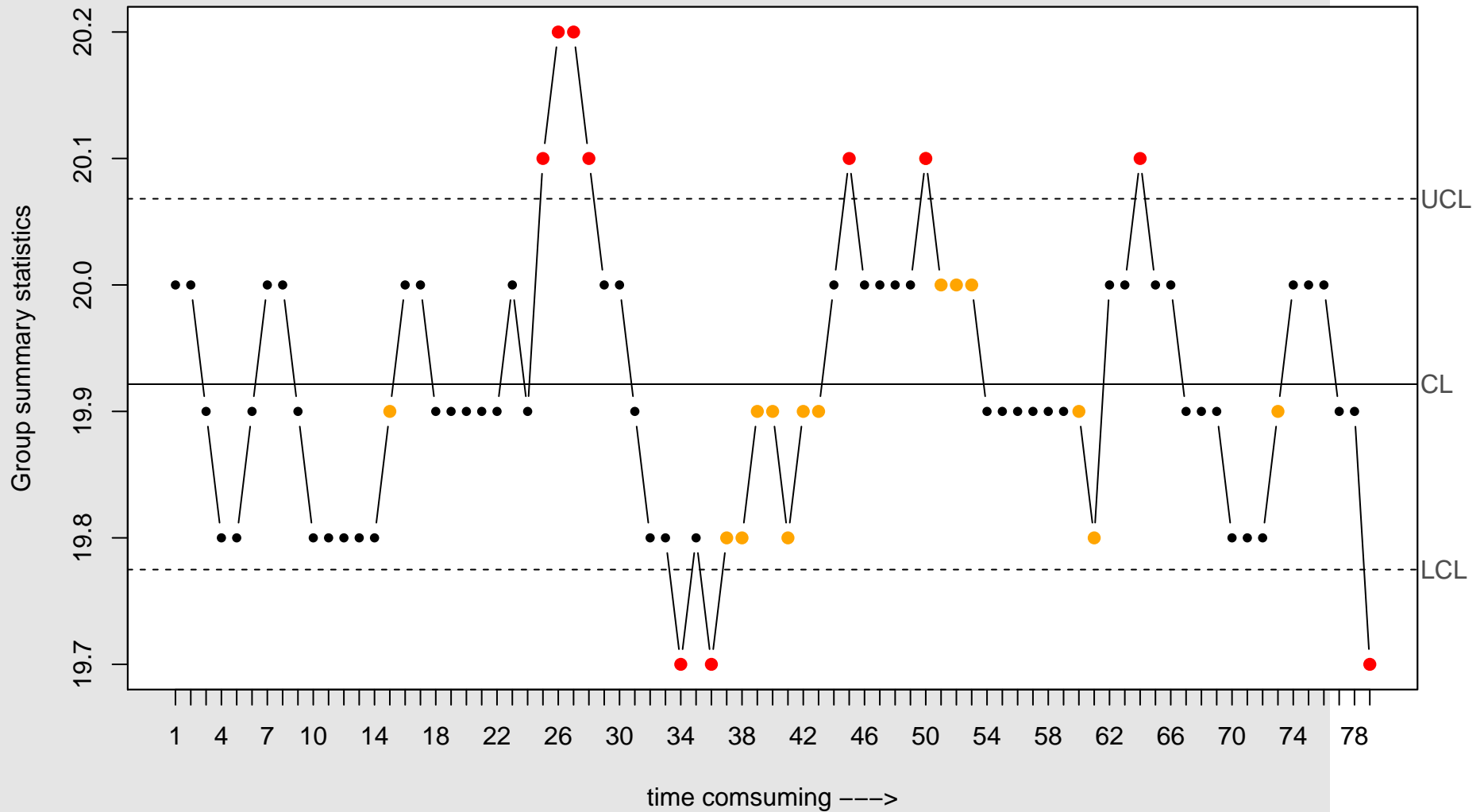


Number of groups = 79
Center = 19.89241
StdDev = 0.03750682

LCL = 19.77988
UCL = 20.00493

Number beyond limits = 4
Number violating runs = 24

98th column point of this product

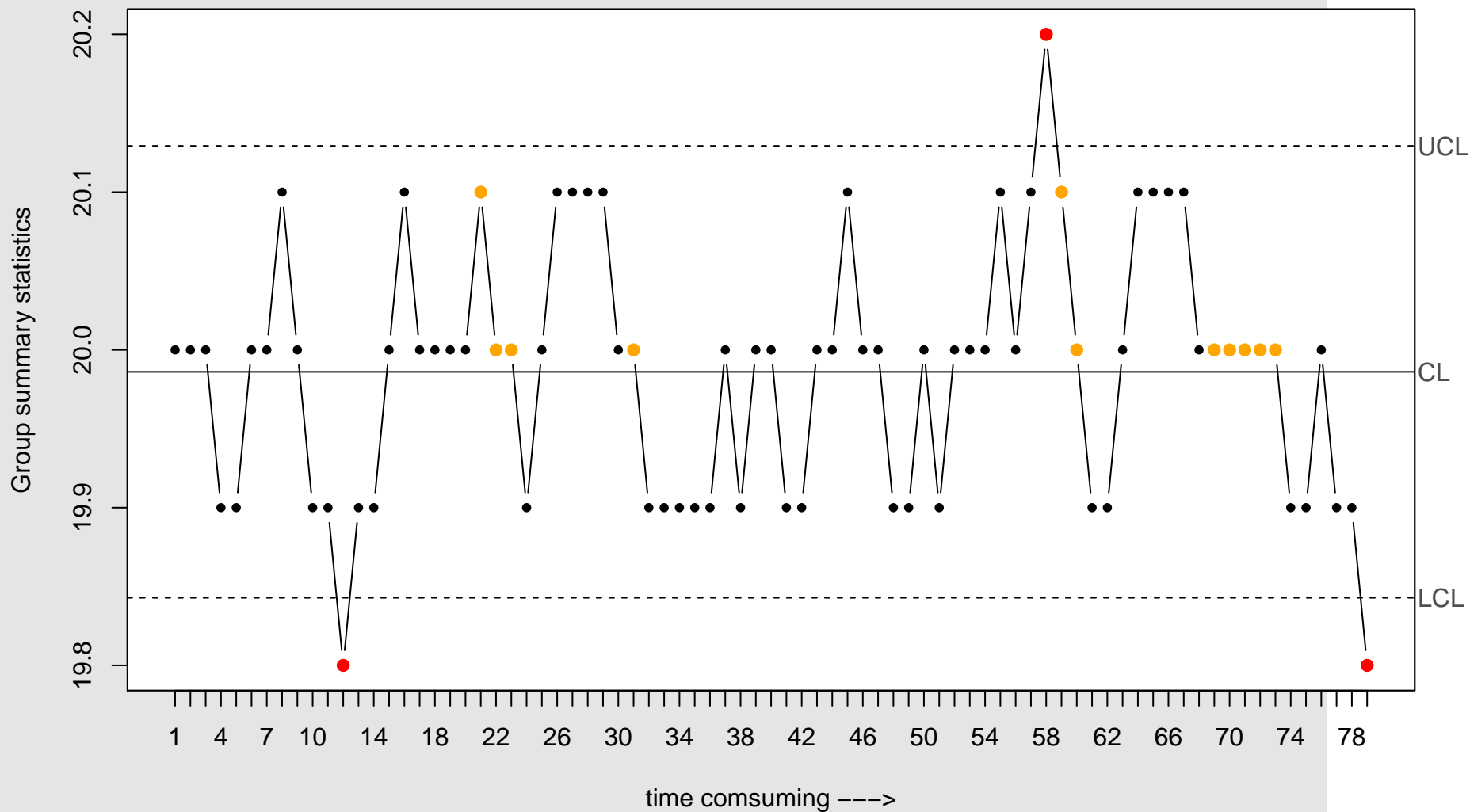


Number of groups = 79
 Center = 19.92152
 StdDev = 0.04887252

LCL = 19.7749
 UCL = 20.06814

Number beyond limits = 10
 Number violating runs = 15

99th column point of this product

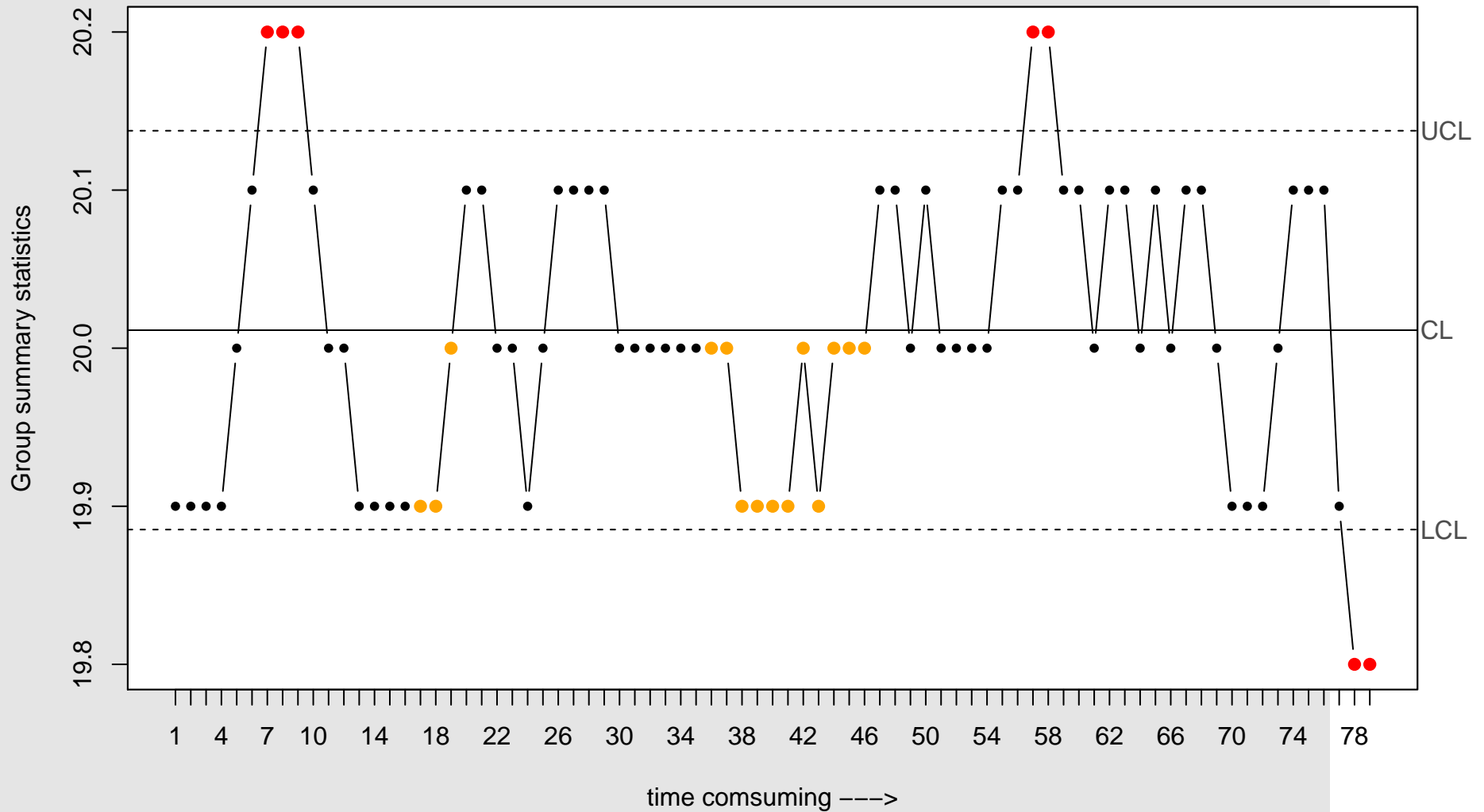


Number of groups = 79
Center = 19.98608
StdDev = 0.04773595

LCL = 19.84287
UCL = 20.12928

Number beyond limits = 3
Number violating runs = 12

100th column point of this product

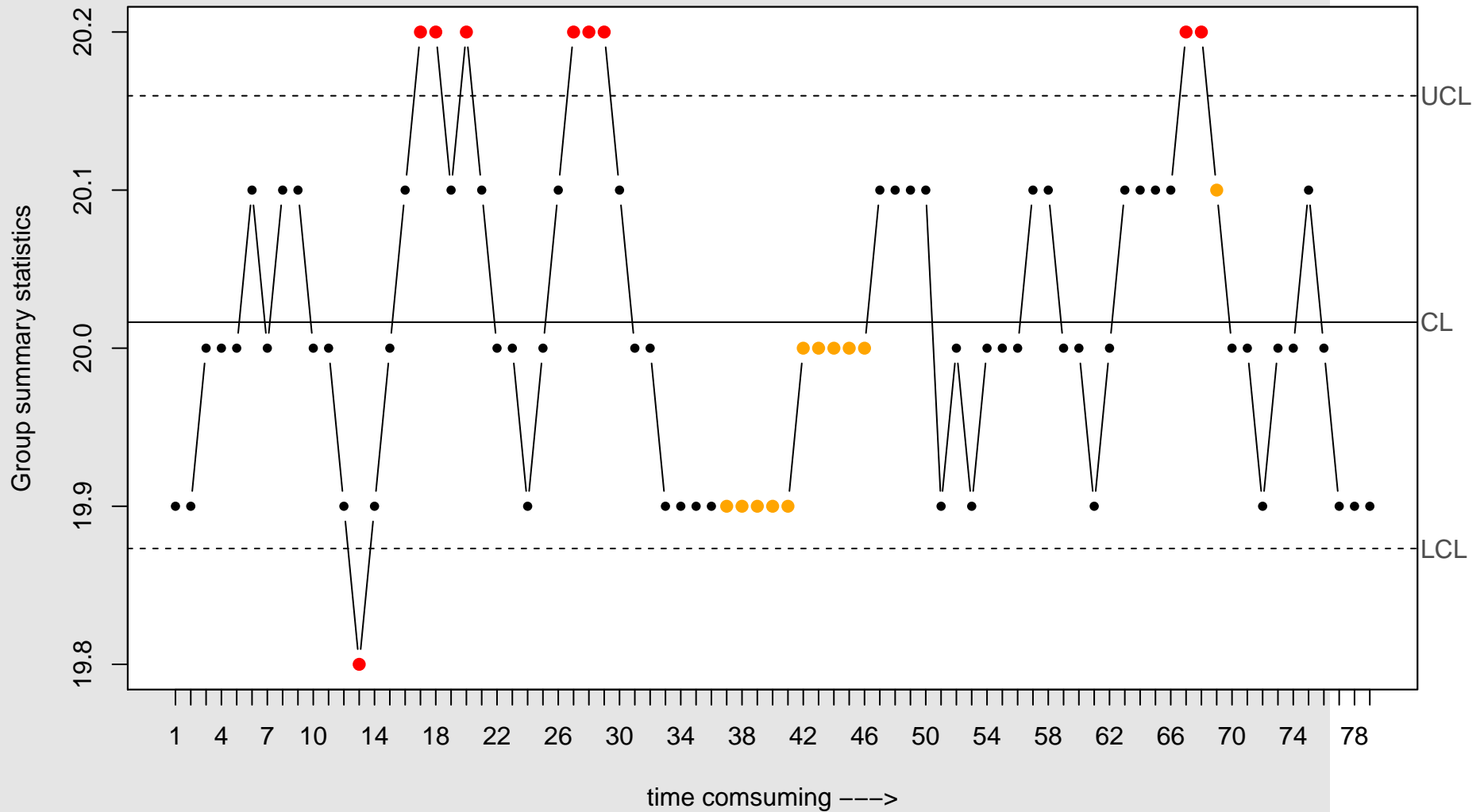


Number of groups = 79
Center = 20.01139
StdDev = 0.0420531

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

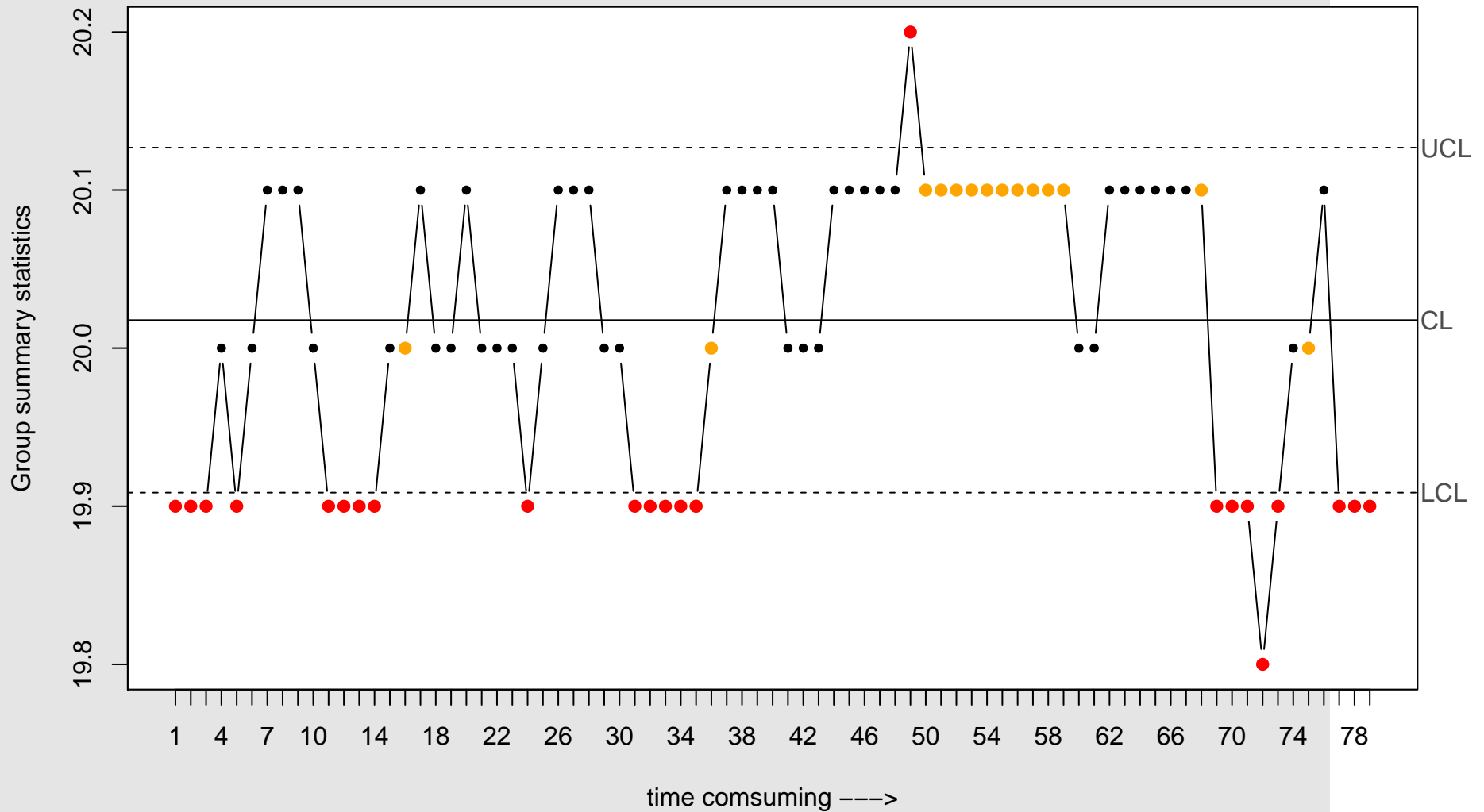
LCL = 19.87325

UCL = 20.15966

Number beyond limits = 9

Number violating runs = 11

102th column point of this product

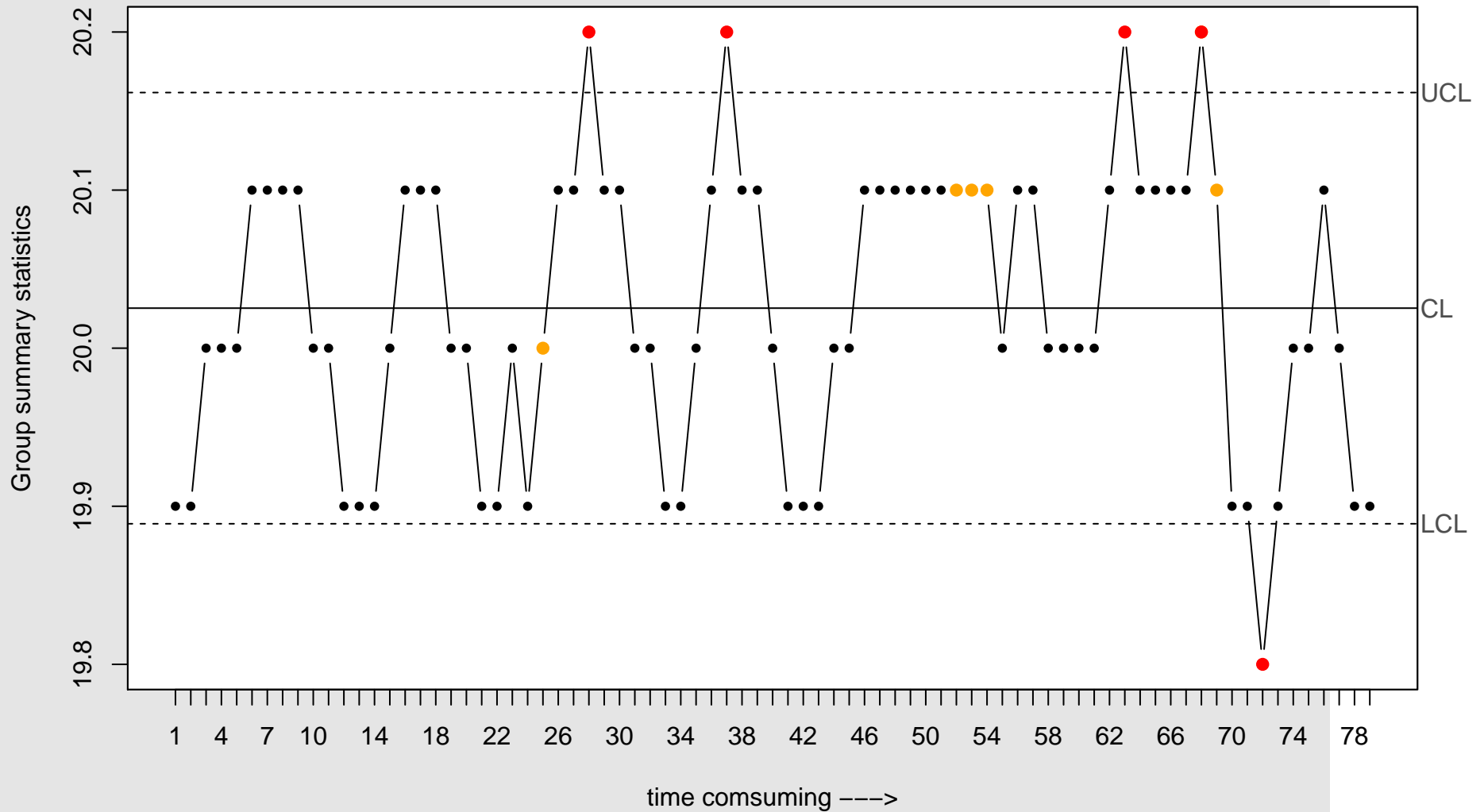


Number of groups = 79
Center = 20.01772
StdDev = 0.03637025

LCL = 19.90861
UCL = 20.12683

Number beyond limits = 23
Number violating runs = 15

103th column point of this product

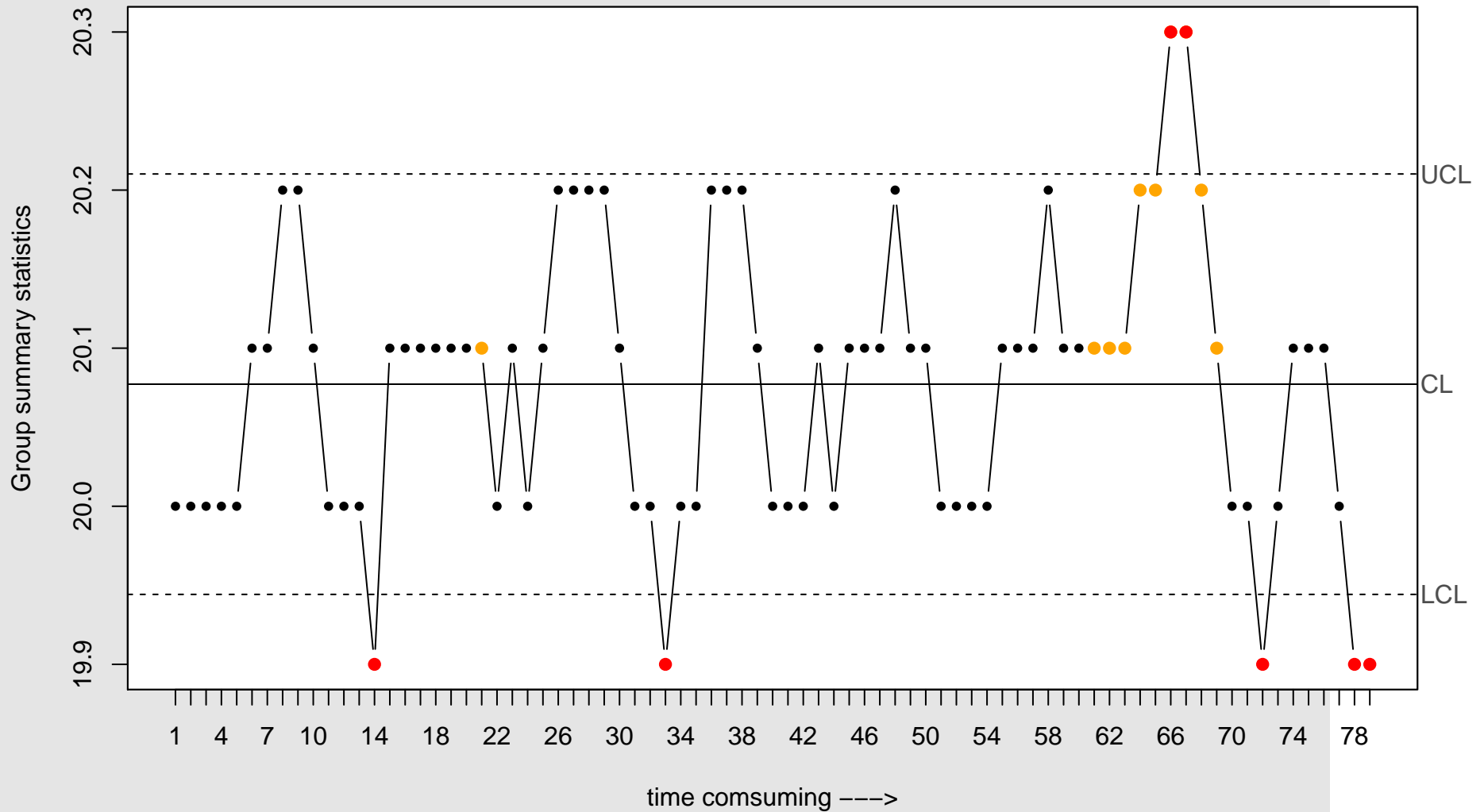


Number of groups = 79
 Center = 20.02532
 StdDev = 0.04546281

LCL = 19.88893
 UCL = 20.1617

Number beyond limits = 5
 Number violating runs = 6

104th column point of this product

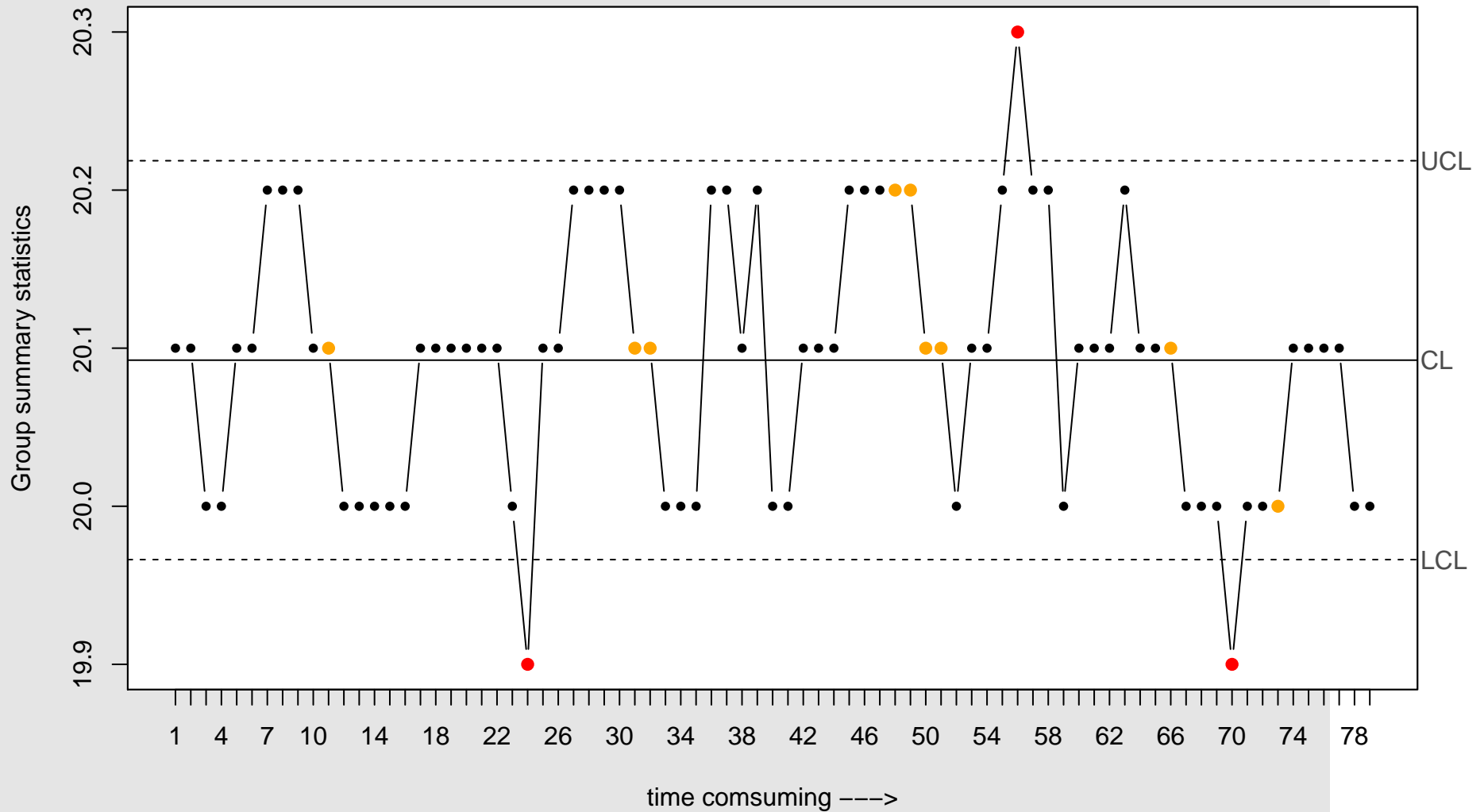


Number of groups = 79
Center = 20.07722
StdDev = 0.04432624

LCL = 19.94424
UCL = 20.21019

Number beyond limits = 7
Number violating runs = 10

105th column point of this product

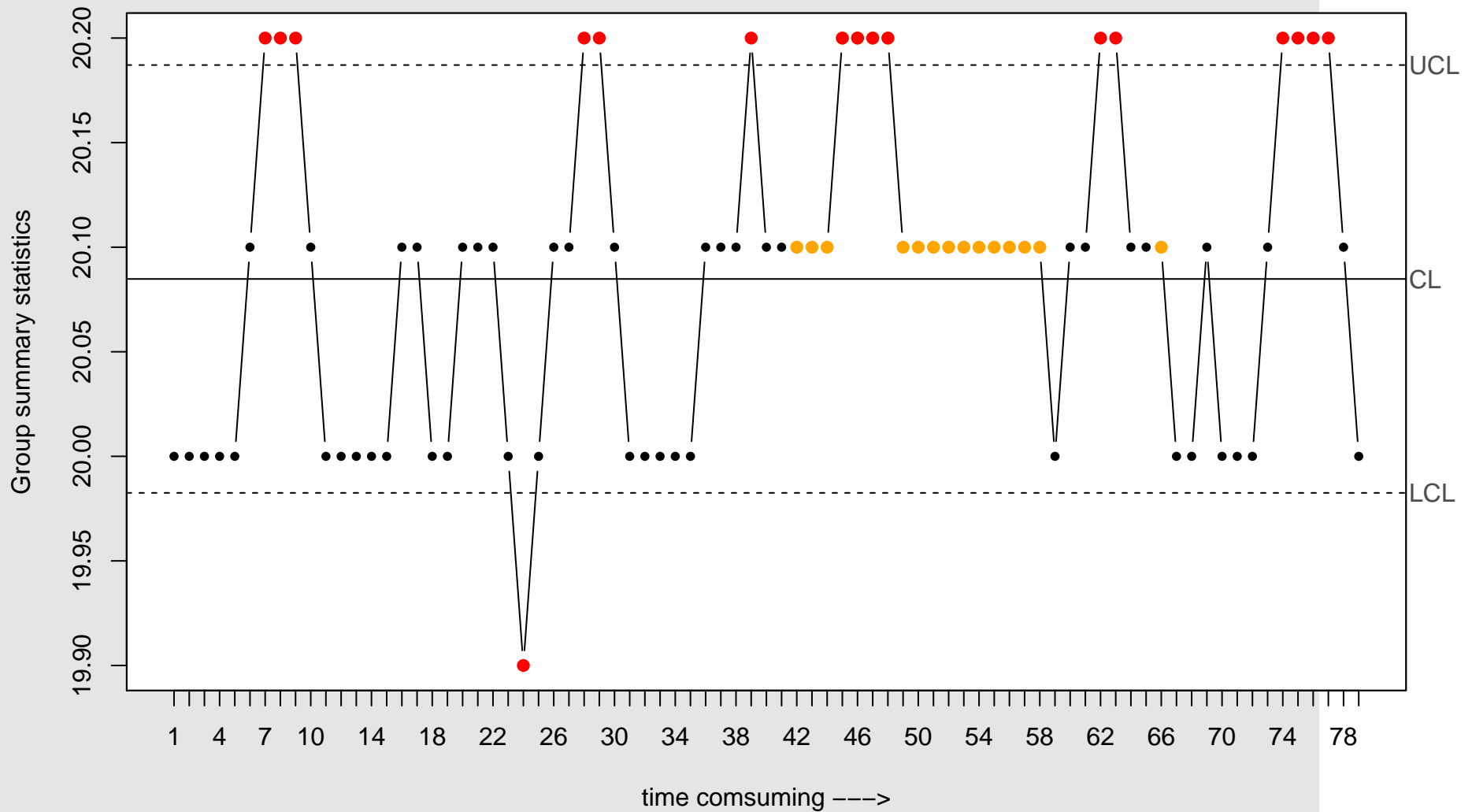


Number of groups = 79
Center = 20.09241
StdDev = 0.0420531

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

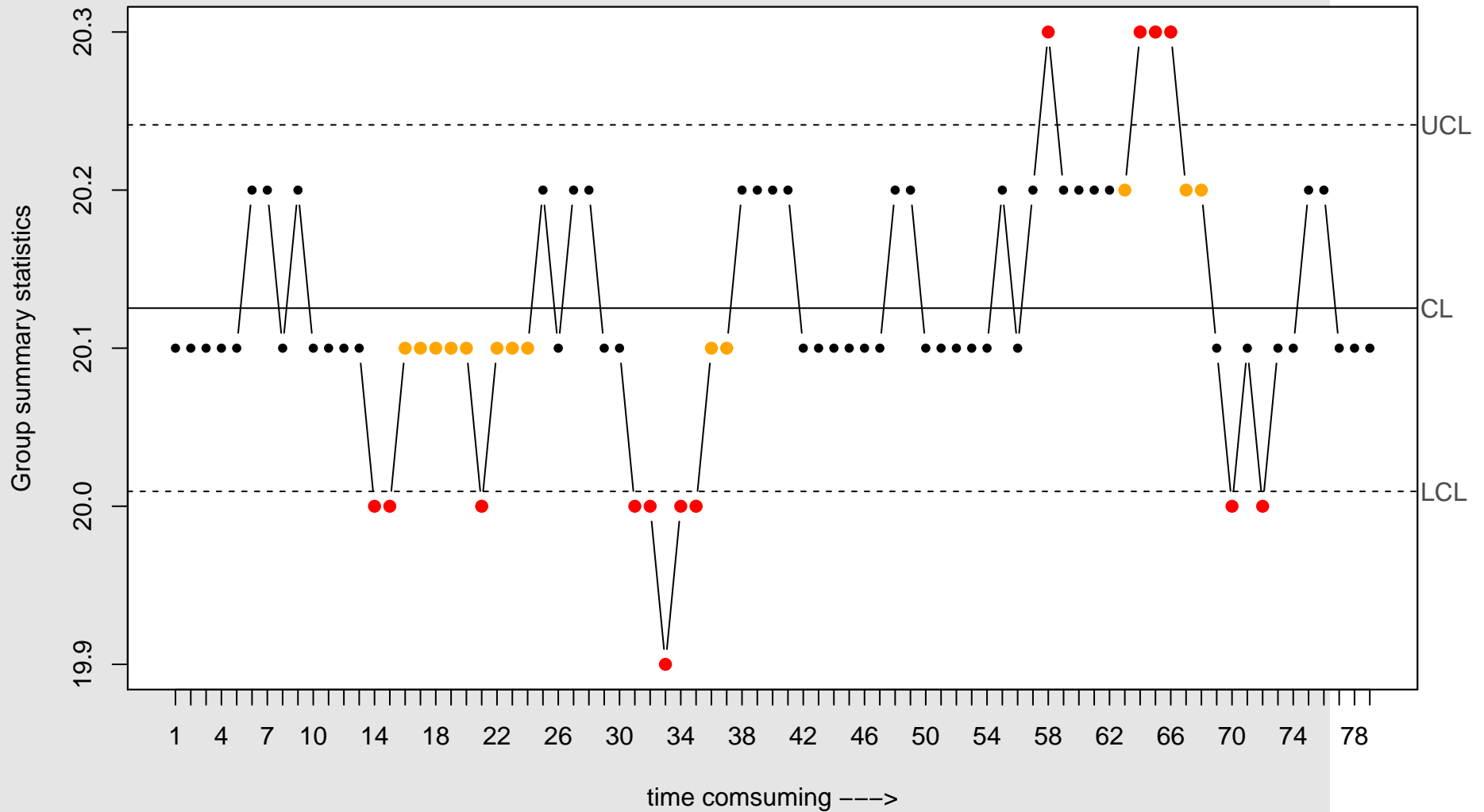
LCL = 19.98252

UCL = 20.1871

Number beyond limits = 17

Number violating runs = 18

107th column point of this product

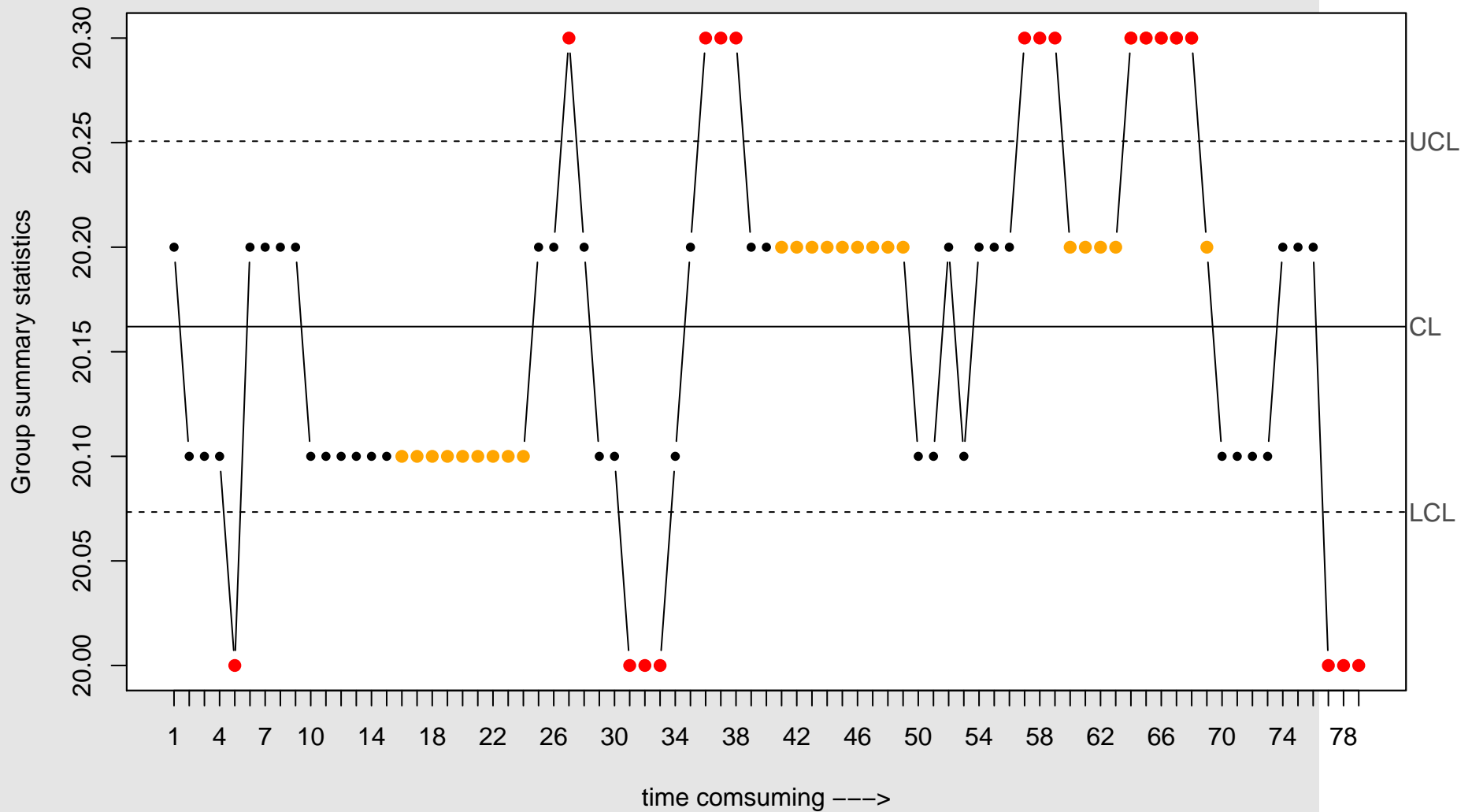


Number of groups = 79
Center = 20.12532
StdDev = 0.03864339

LCL = 20.00939
UCL = 20.24125

Number beyond limits = 14
Number violating runs = 18

108th column point of this product

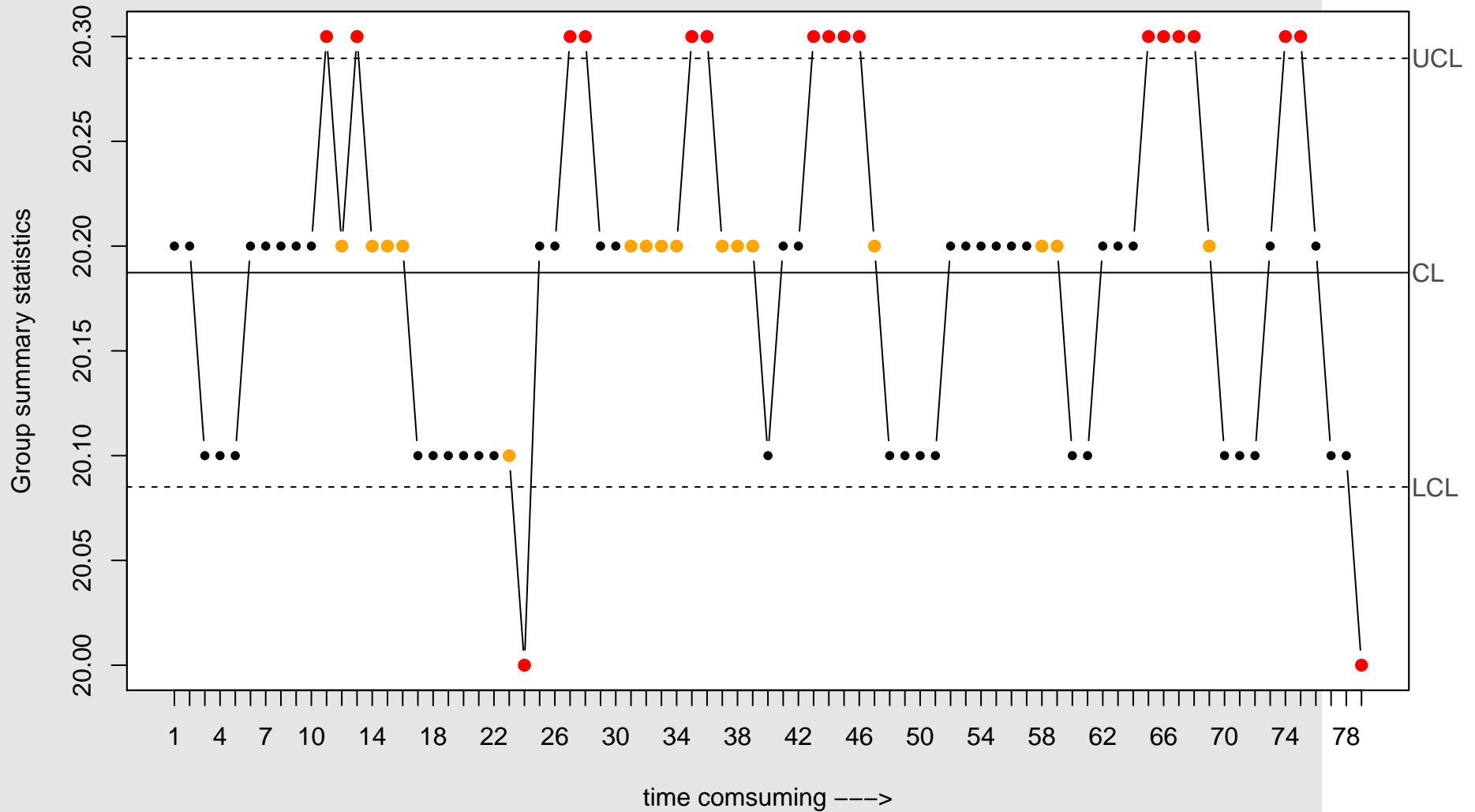


Number of groups = 79
 Center = 20.16203
 StdDev = 0.02955083

LCL = 20.07337
 UCL = 20.25068

Number beyond limits = 19
 Number violating runs = 28

109th column point of this product

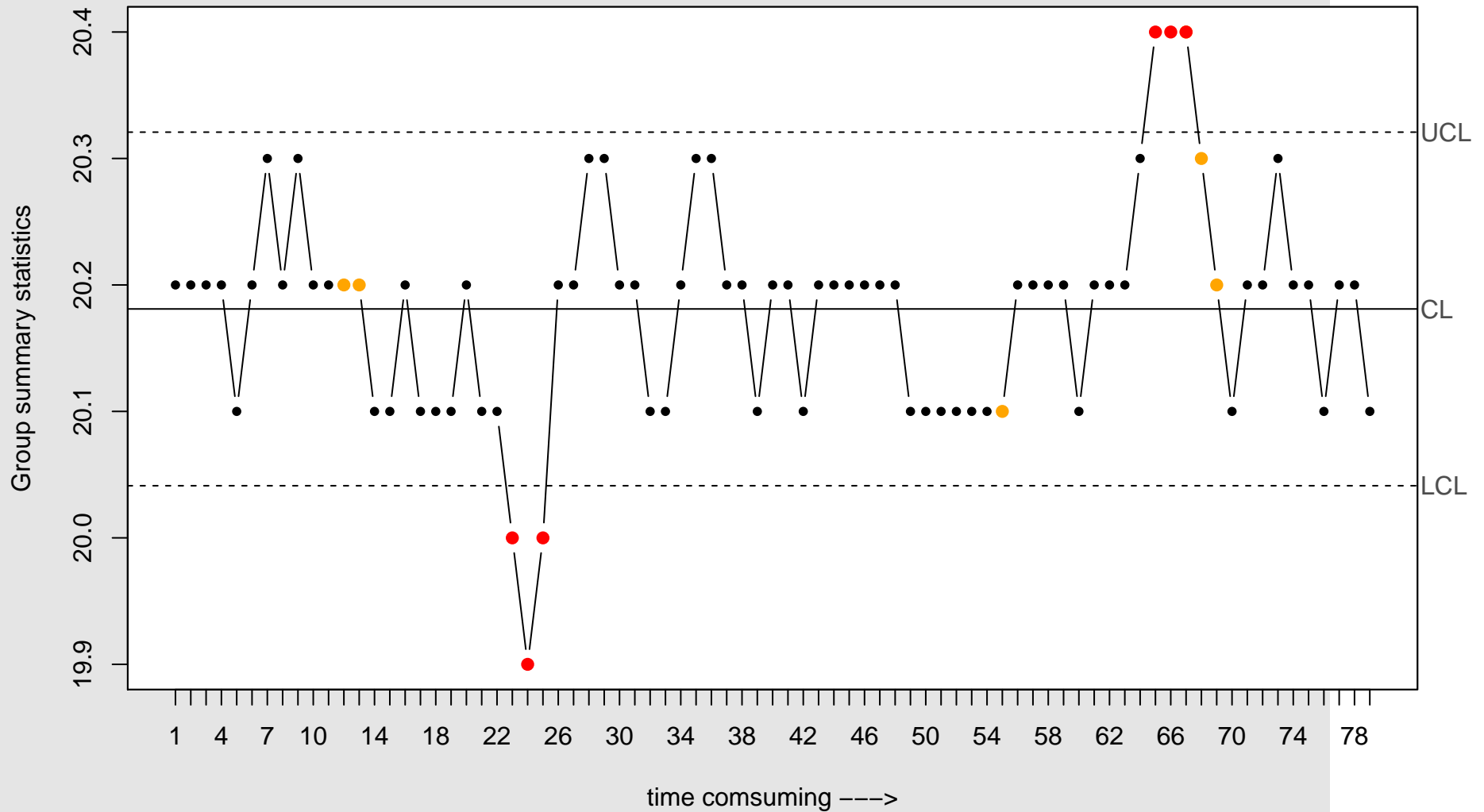


Number of groups = 79
Center = 20.18734
StdDev = 0.03409711

LCL = 20.08505
UCL = 20.28963

Number beyond limits = 18
Number violating runs = 21

110th column point of this product

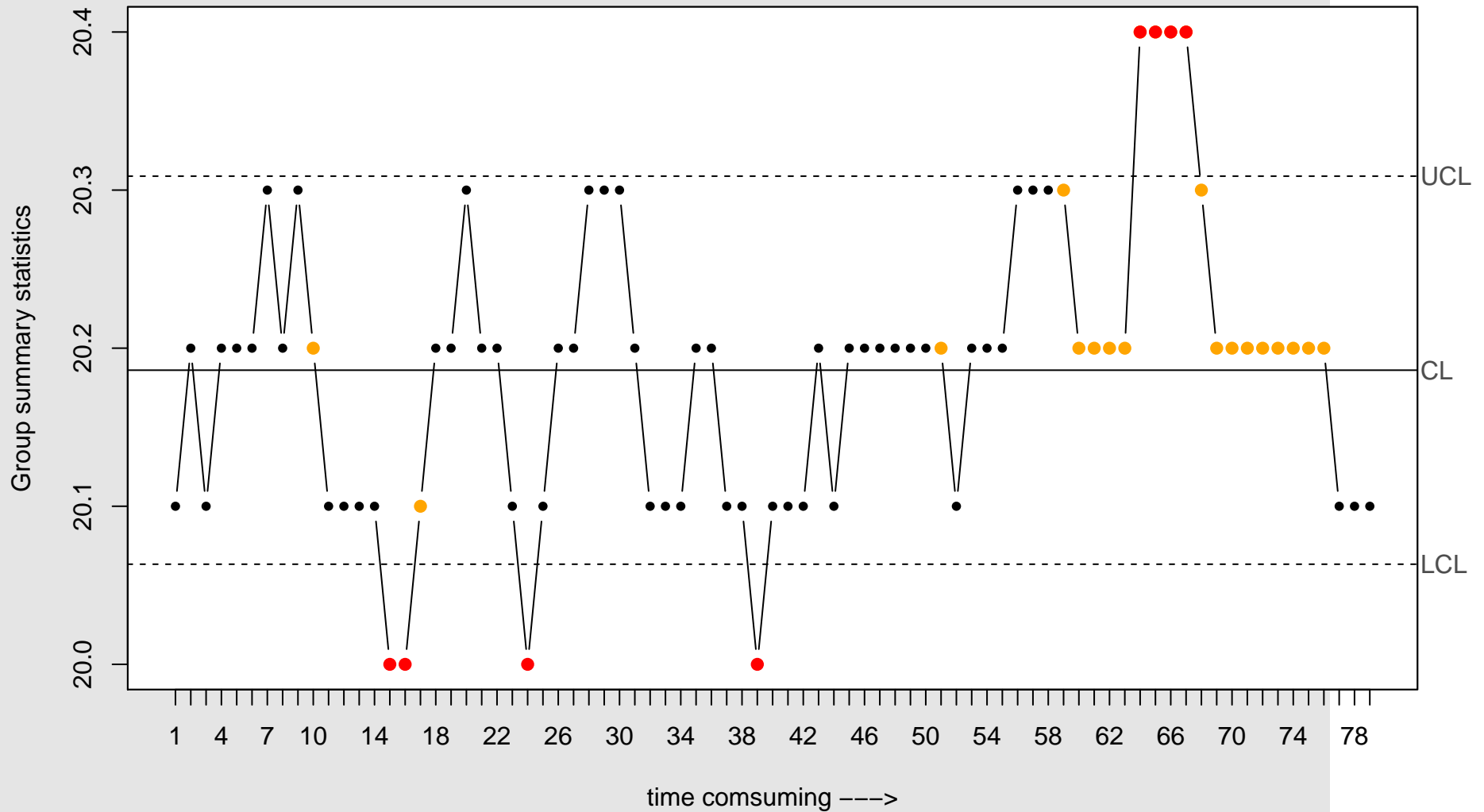


Number of groups = 79
Center = 20.18101
StdDev = 0.04659938

LCL = 20.04121
UCL = 20.32081

Number beyond limits = 6
Number violating runs = 6

111th column point of this product

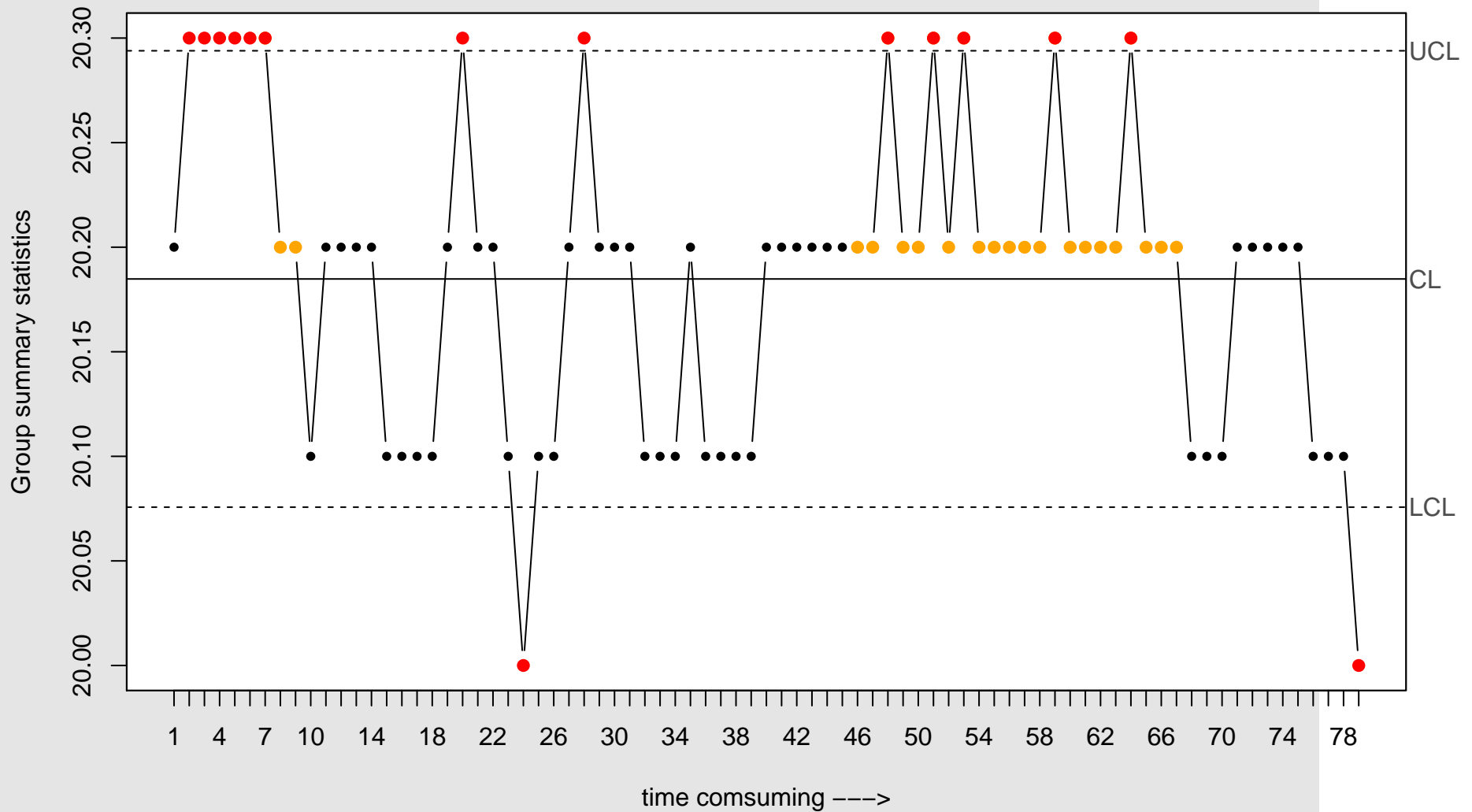


Number of groups = 79
 Center = 20.18608
 StdDev = 0.04091653

LCL = 20.06333
 UCL = 20.30883

Number beyond limits = 8
 Number violating runs = 21

112th column point of this product

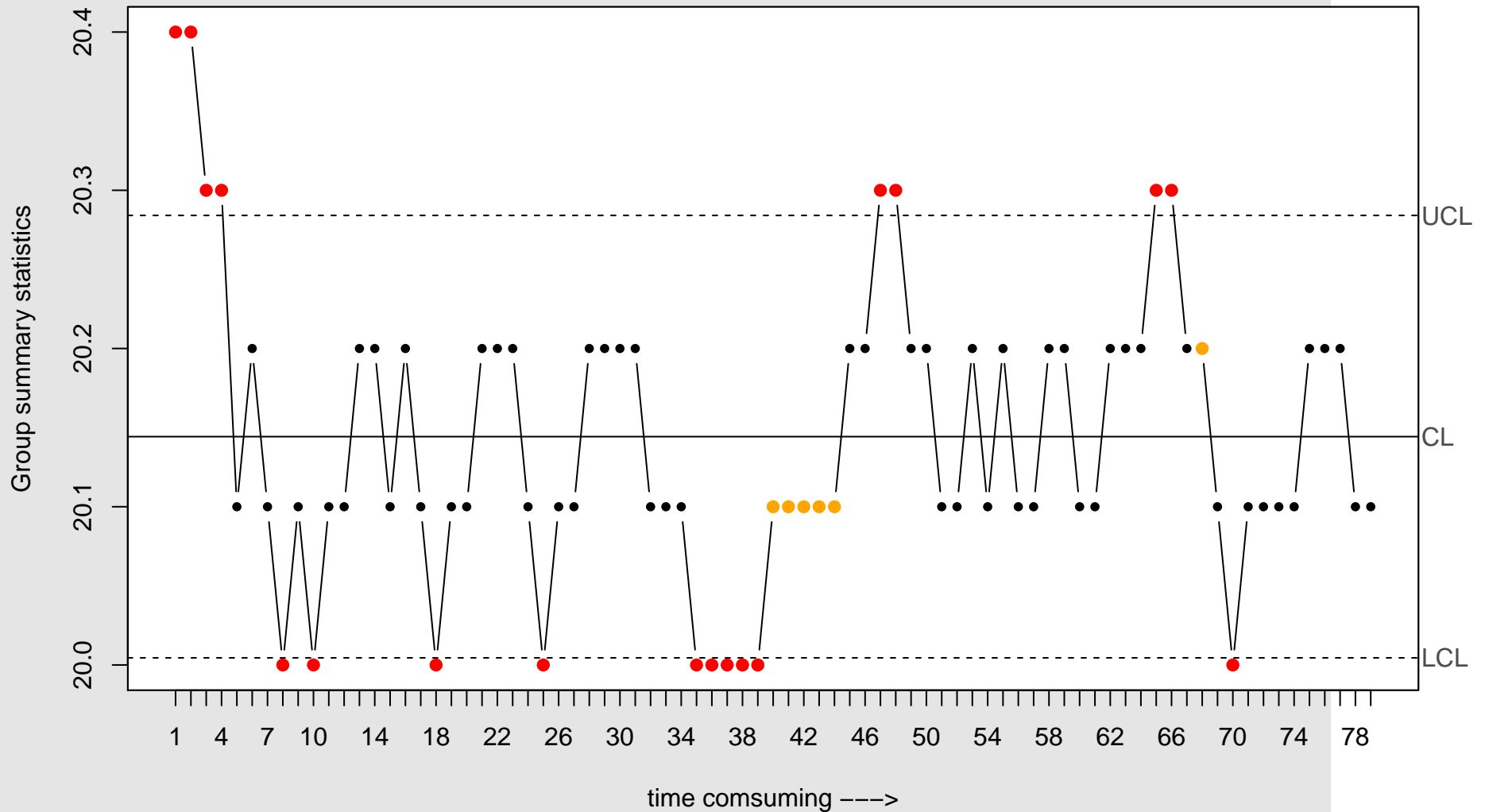


Number of groups = 79
 Center = 20.18481
 StdDev = 0.03637025

LCL = 20.0757
 UCL = 20.29392

Number beyond limits = 15
 Number violating runs = 25

113th column point of this product

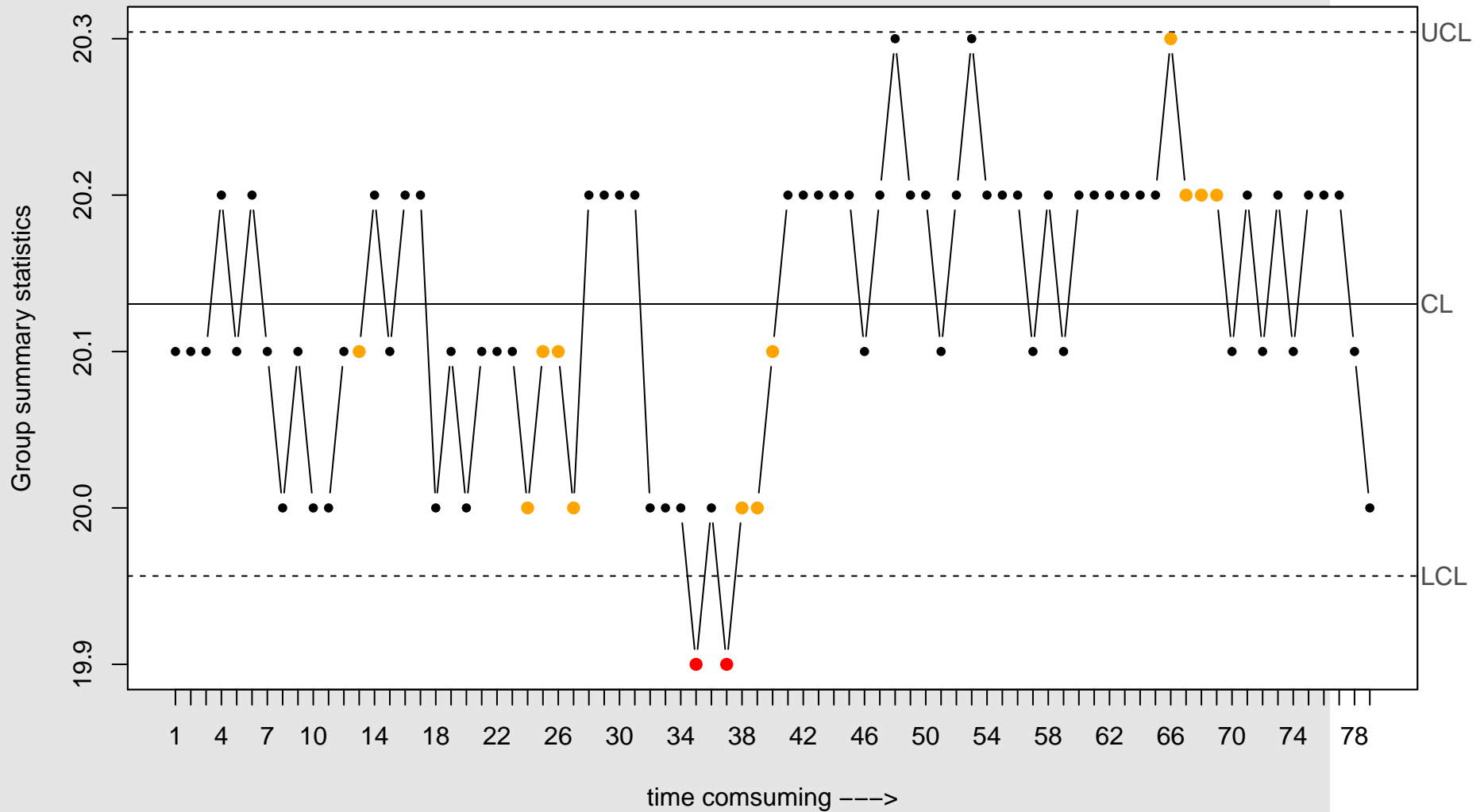


Number of groups = 79
Center = 20.1443
StdDev = 0.04659938

LCL = 20.00451
UCL = 20.2841

Number beyond limits = 18
Number violating runs = 8

114th column point of this product

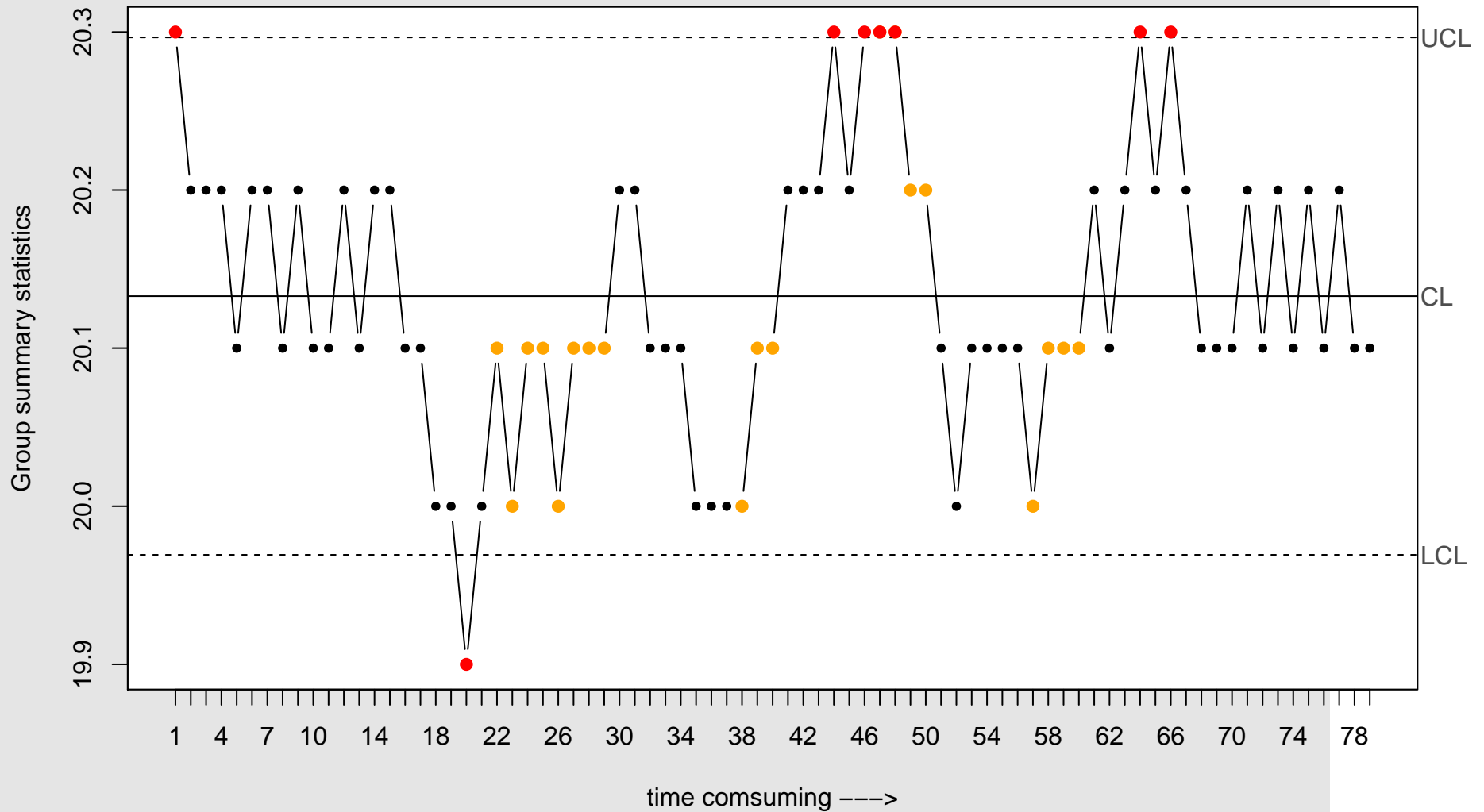


Number of groups = 79
Center = 20.13038
StdDev = 0.05796508

LCL = 19.95648
UCL = 20.30428

Number beyond limits = 2
Number violating runs = 12

115th column point of this product

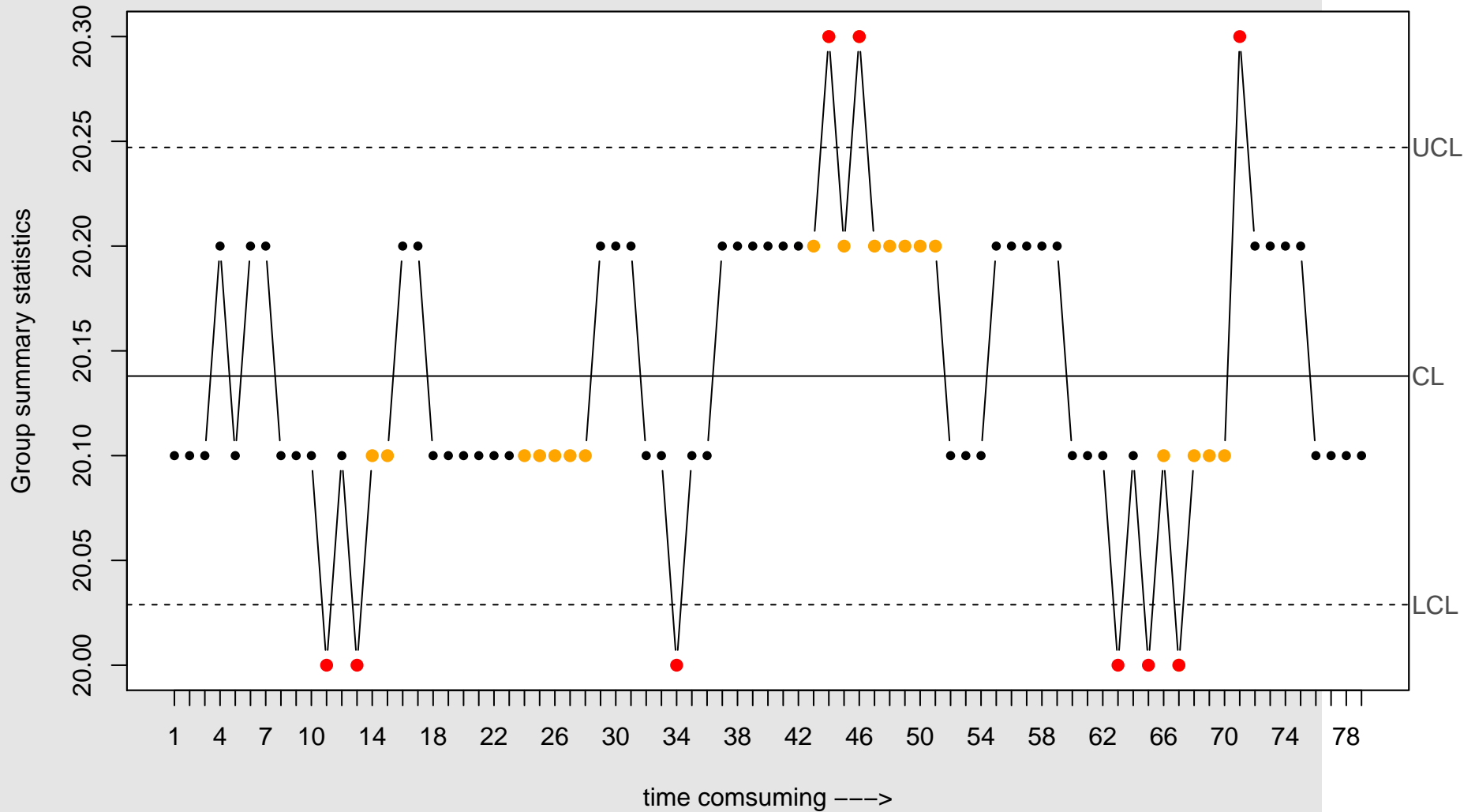


Number of groups = 79
 Center = 20.13291
 StdDev = 0.05455537

LCL = 19.96925
 UCL = 20.29658

Number beyond limits = 8
 Number violating runs = 19

116th column point of this product

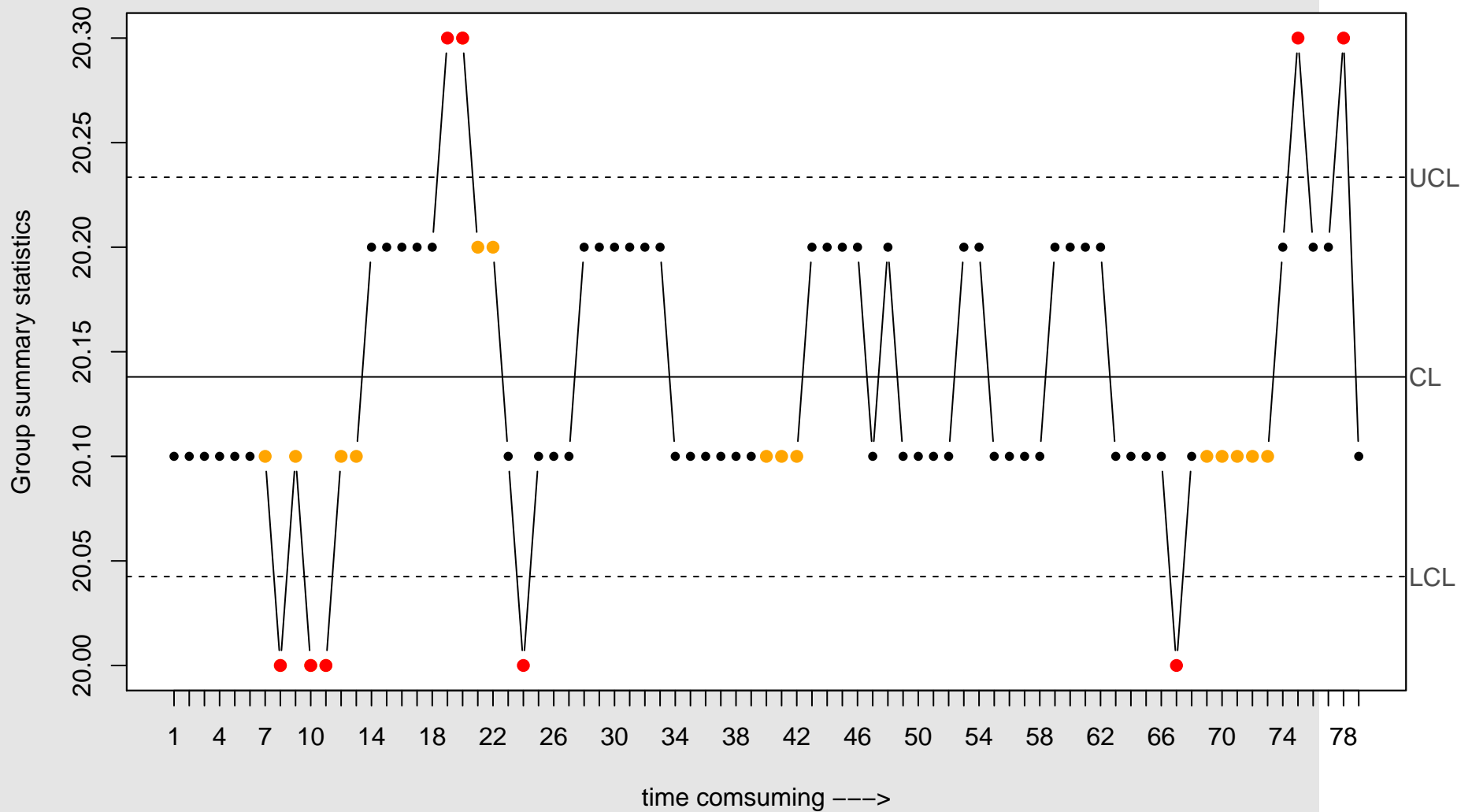


Number of groups = 79
 Center = 20.13797
 StdDev = 0.03637025

LCL = 20.02886
 UCL = 20.24709

Number beyond limits = 9
 Number violating runs = 21

117th column point of this product

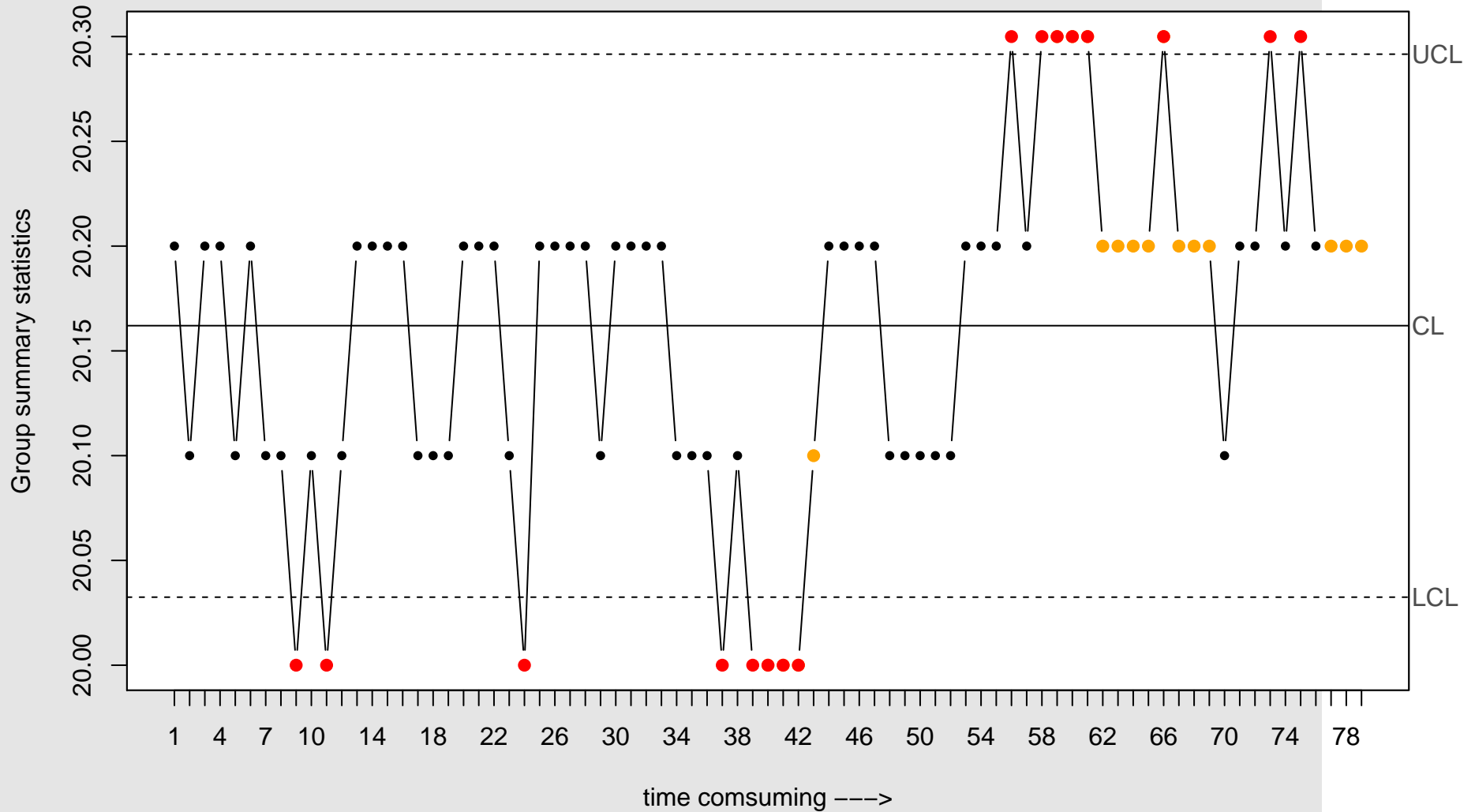


Number of groups = 79
Center = 20.13797
StdDev = 0.03182397

LCL = 20.0425
UCL = 20.23345

Number beyond limits = 9
Number violating runs = 18

118th column point of this product

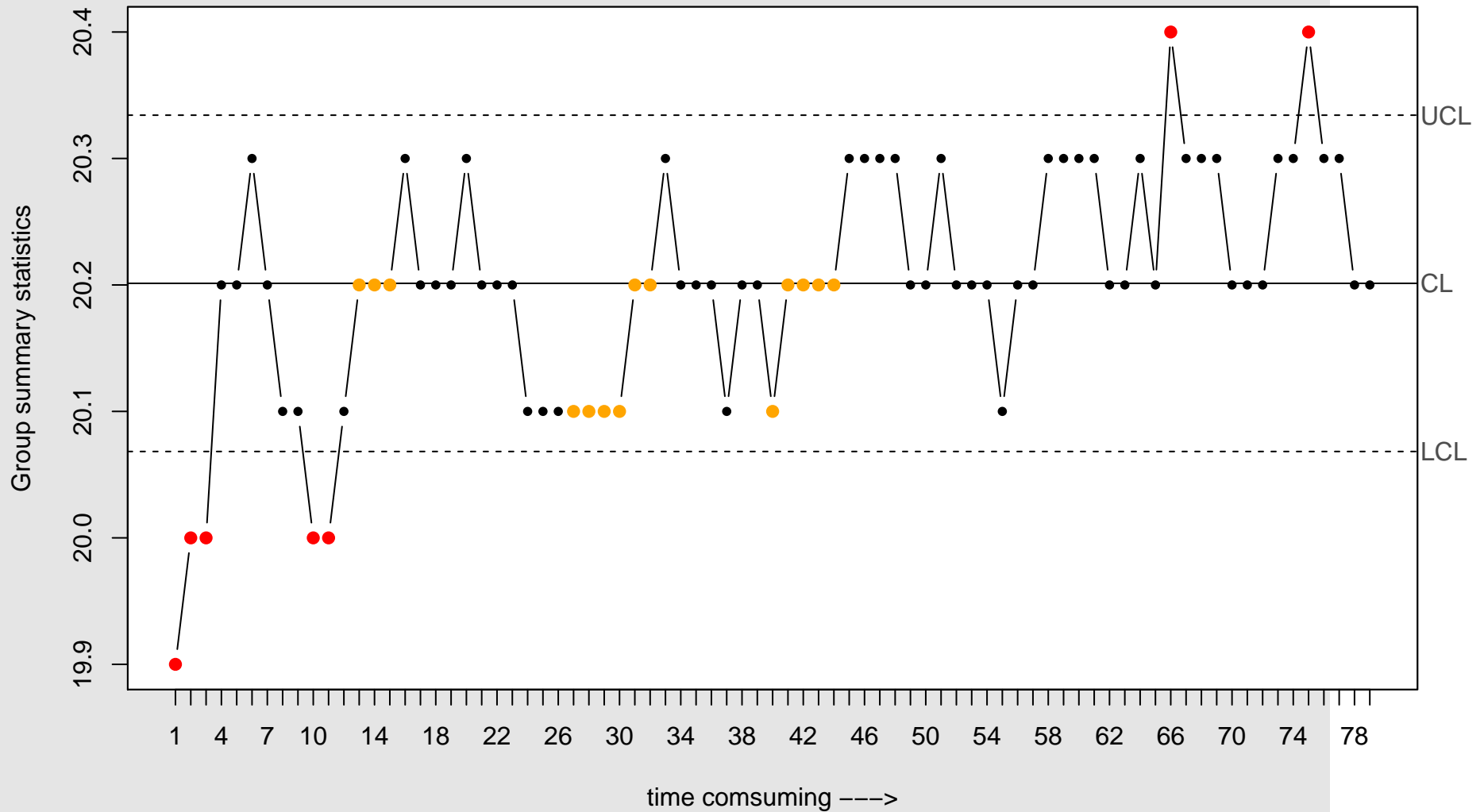


Number of groups = 79
 Center = 20.16203
 StdDev = 0.04318967

LCL = 20.03246
 UCL = 20.29159

Number beyond limits = 16
 Number violating runs = 18

119th column point of this product

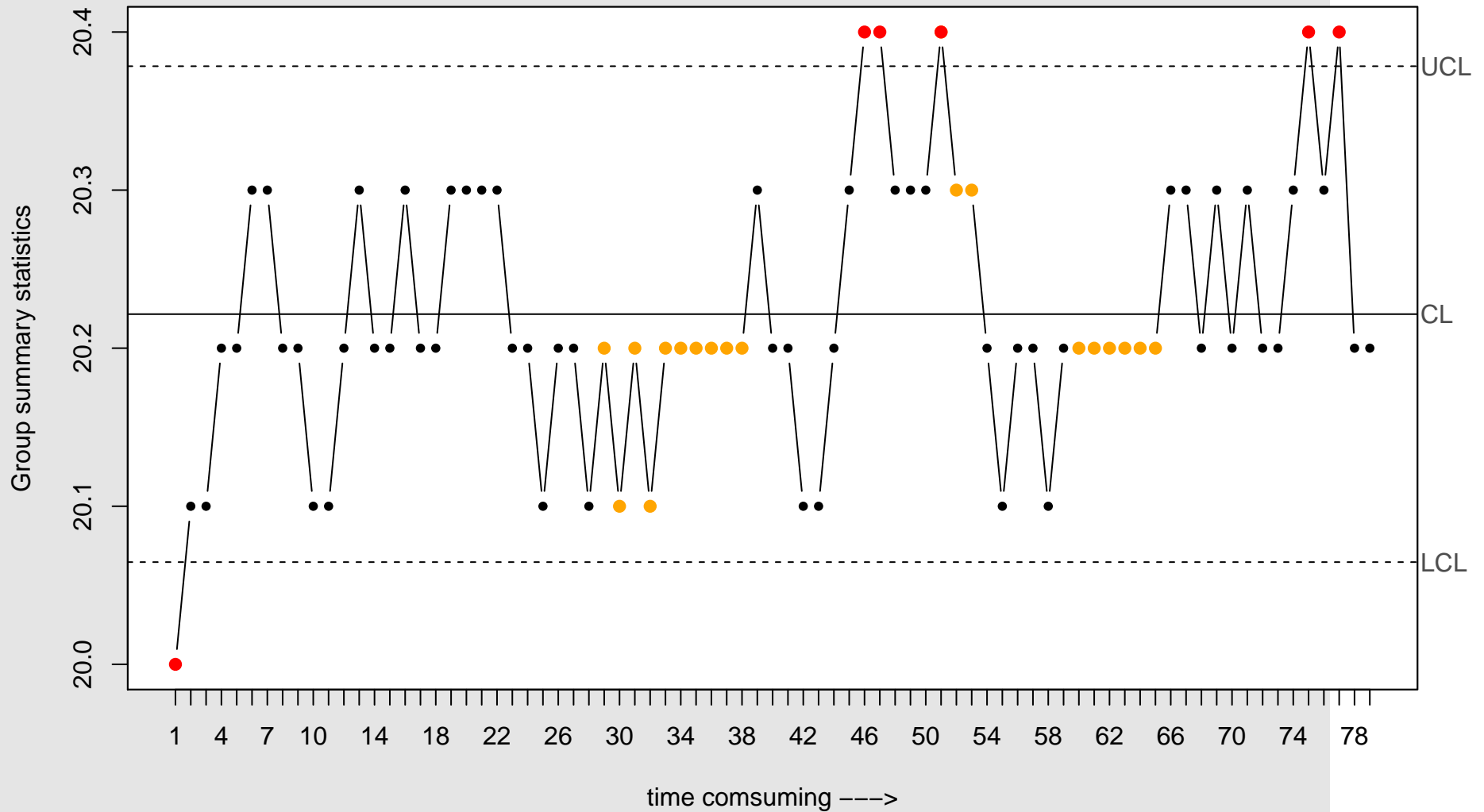


Number of groups = 79
 Center = 20.20127
 StdDev = 0.04432624

LCL = 20.06829
 UCL = 20.33424

Number beyond limits = 7
 Number violating runs = 14

120th column point of this product

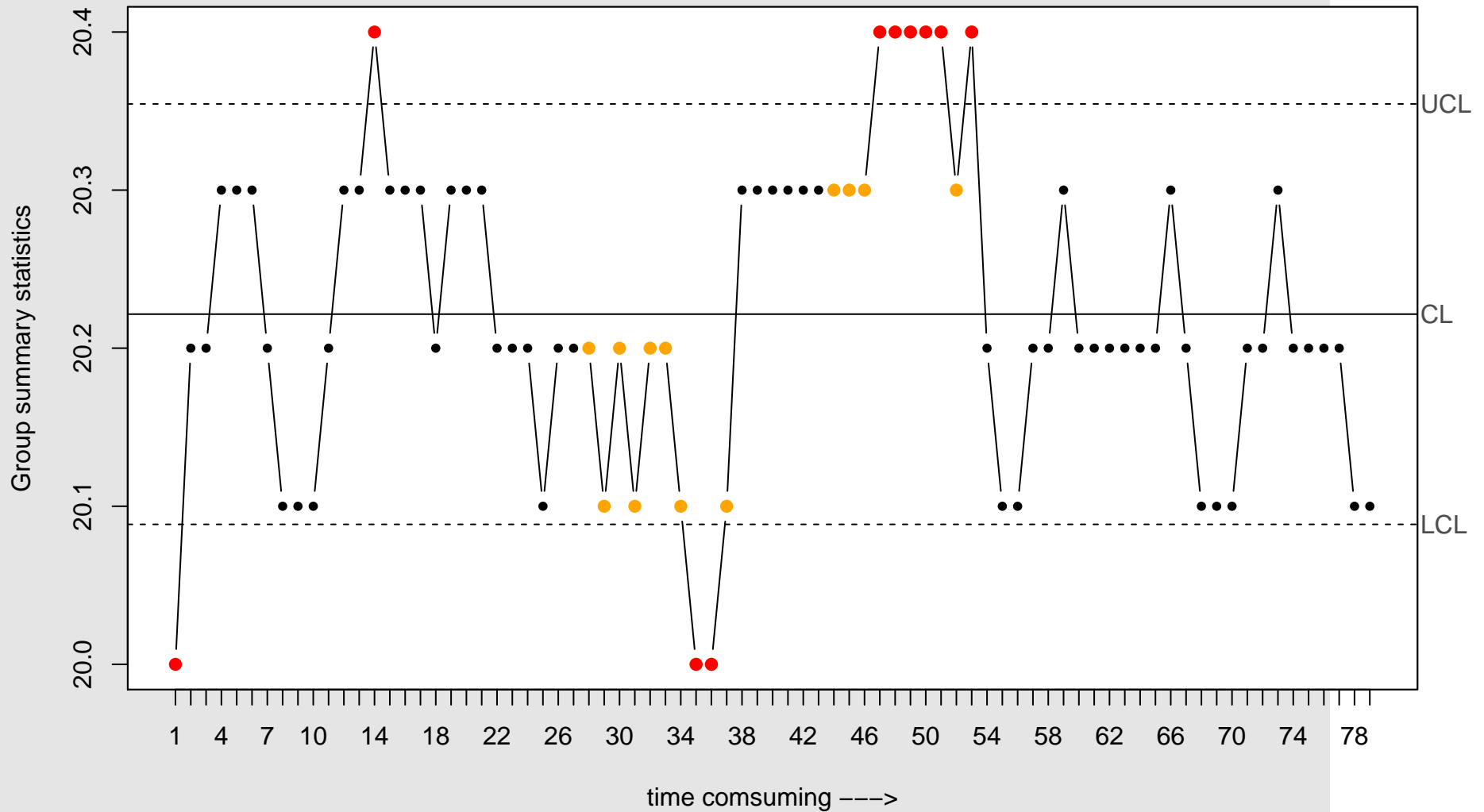


Number of groups = 79
 Center = 20.22152
 StdDev = 0.05228223

LCL = 20.06467
 UCL = 20.37837

Number beyond limits = 6
 Number violating runs = 19

121th column point of this product

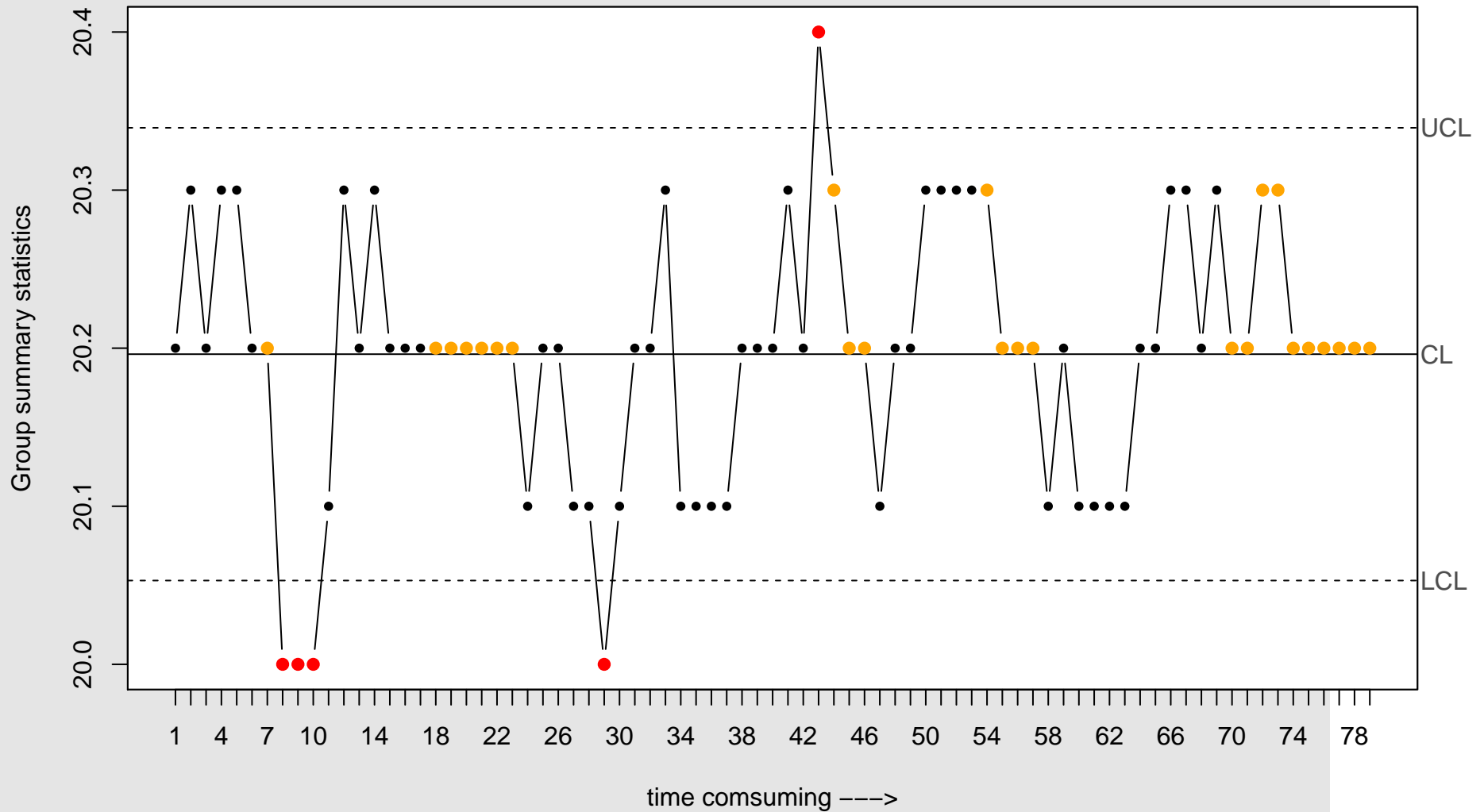


Number of groups = 79
 Center = 20.22152
 StdDev = 0.04432624

LCL = 20.08854
 UCL = 20.3545

Number beyond limits = 10
 Number violating runs = 20

122th column point of this product

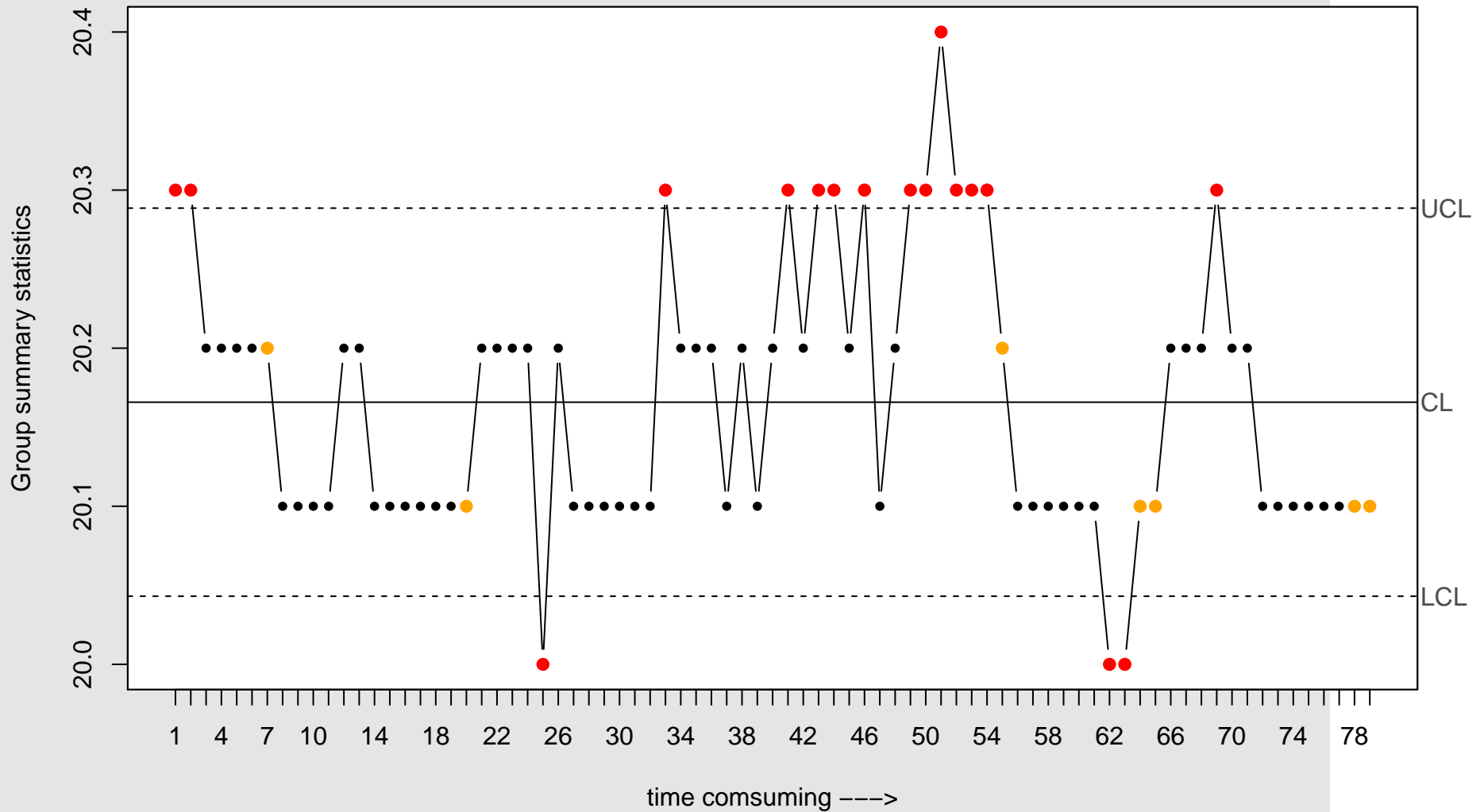


Number of groups = 79
 Center = 20.1962
 StdDev = 0.04773595

LCL = 20.05299
 UCL = 20.33941

Number beyond limits = 5
 Number violating runs = 24

123th column point of this product

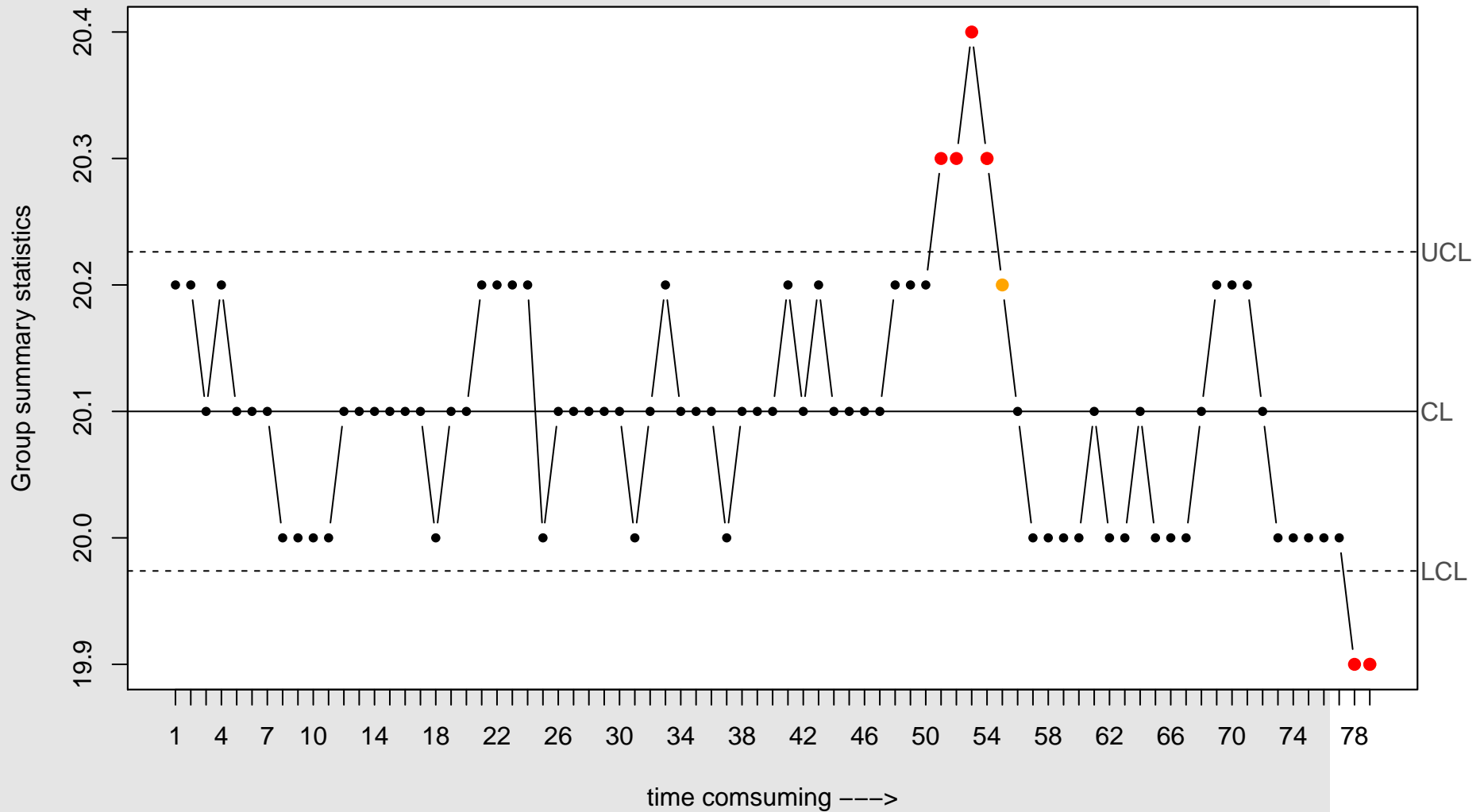


Number of groups = 79
Center = 20.16582
StdDev = 0.04091653

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

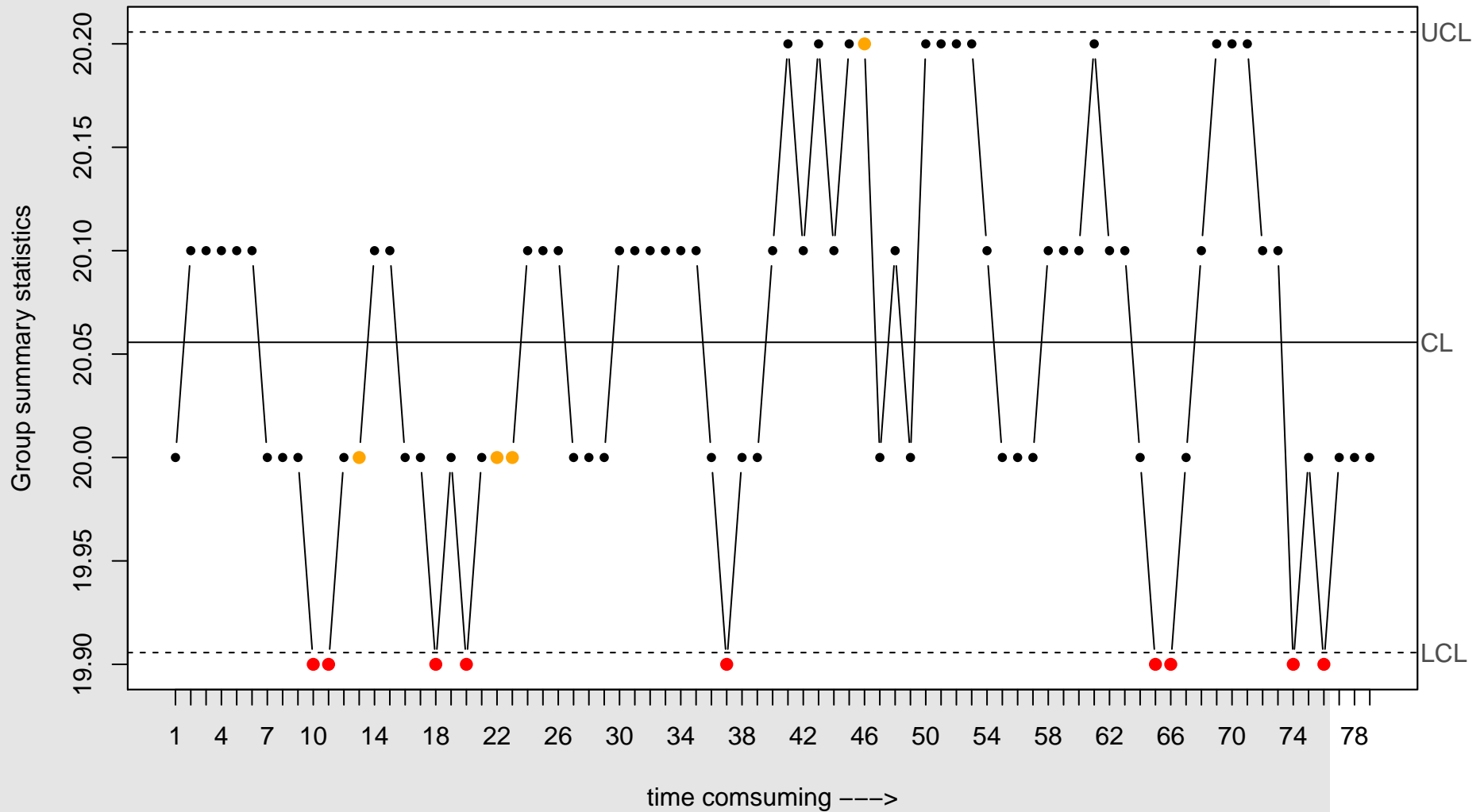
LCL = 19.97384

UCL = 20.22616

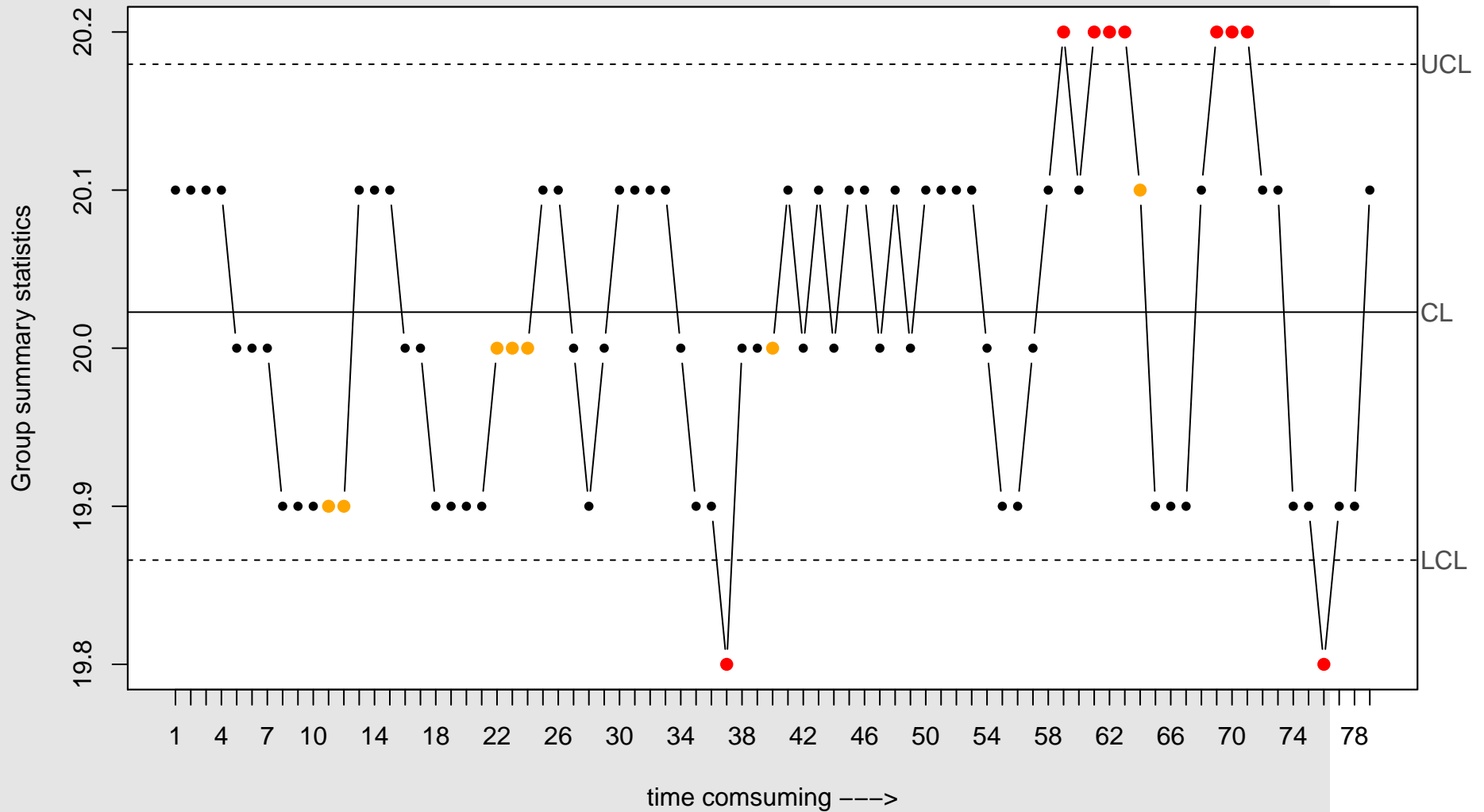
Number beyond limits = 6

Number violating runs = 3

125th column point of this product



126th column point of this product



Number of groups = 79

Center = 20.02278

StdDev = 0.05228223

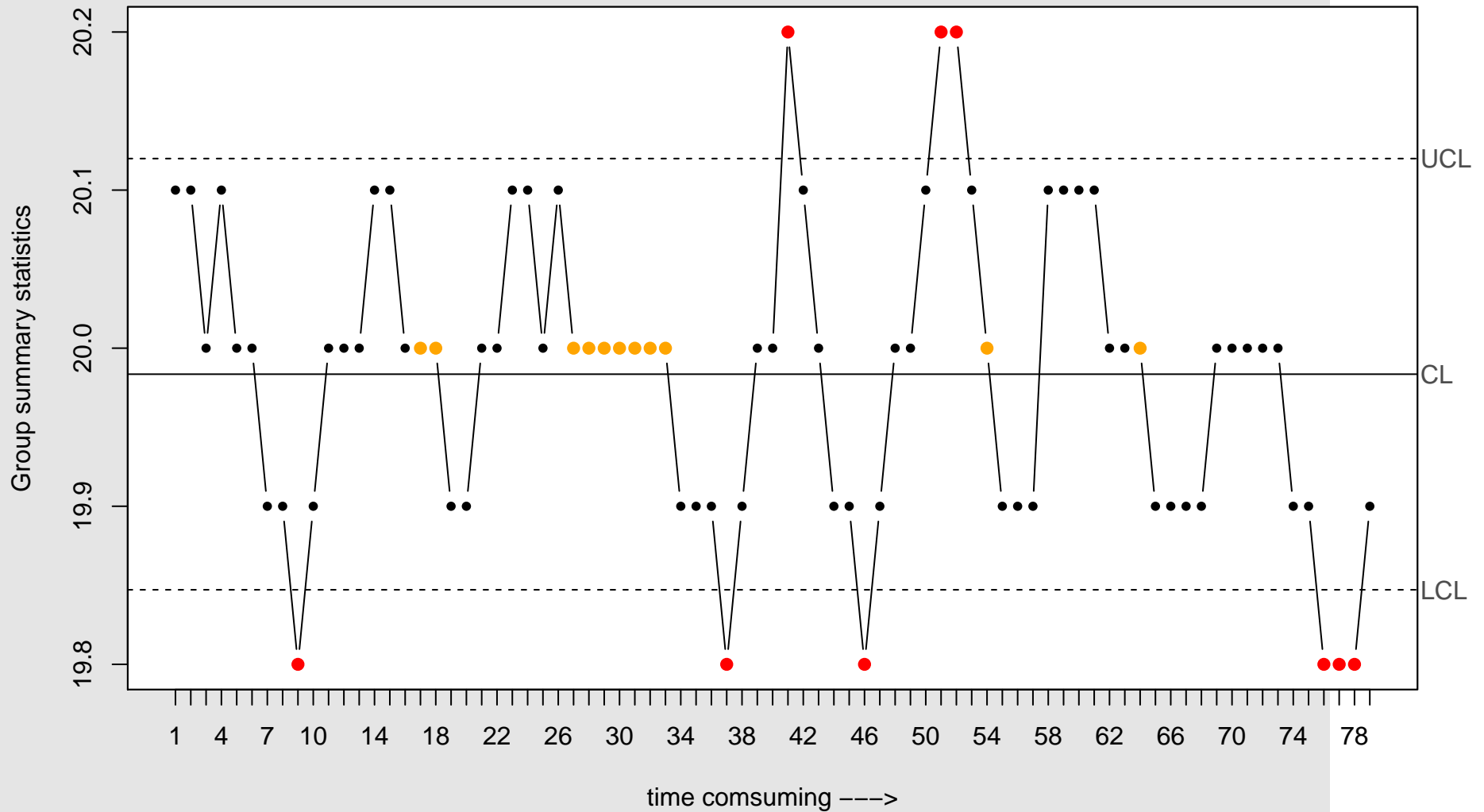
LCL = 19.86594

UCL = 20.17963

Number beyond limits = 9

Number violating runs = 7

127th column point of this product

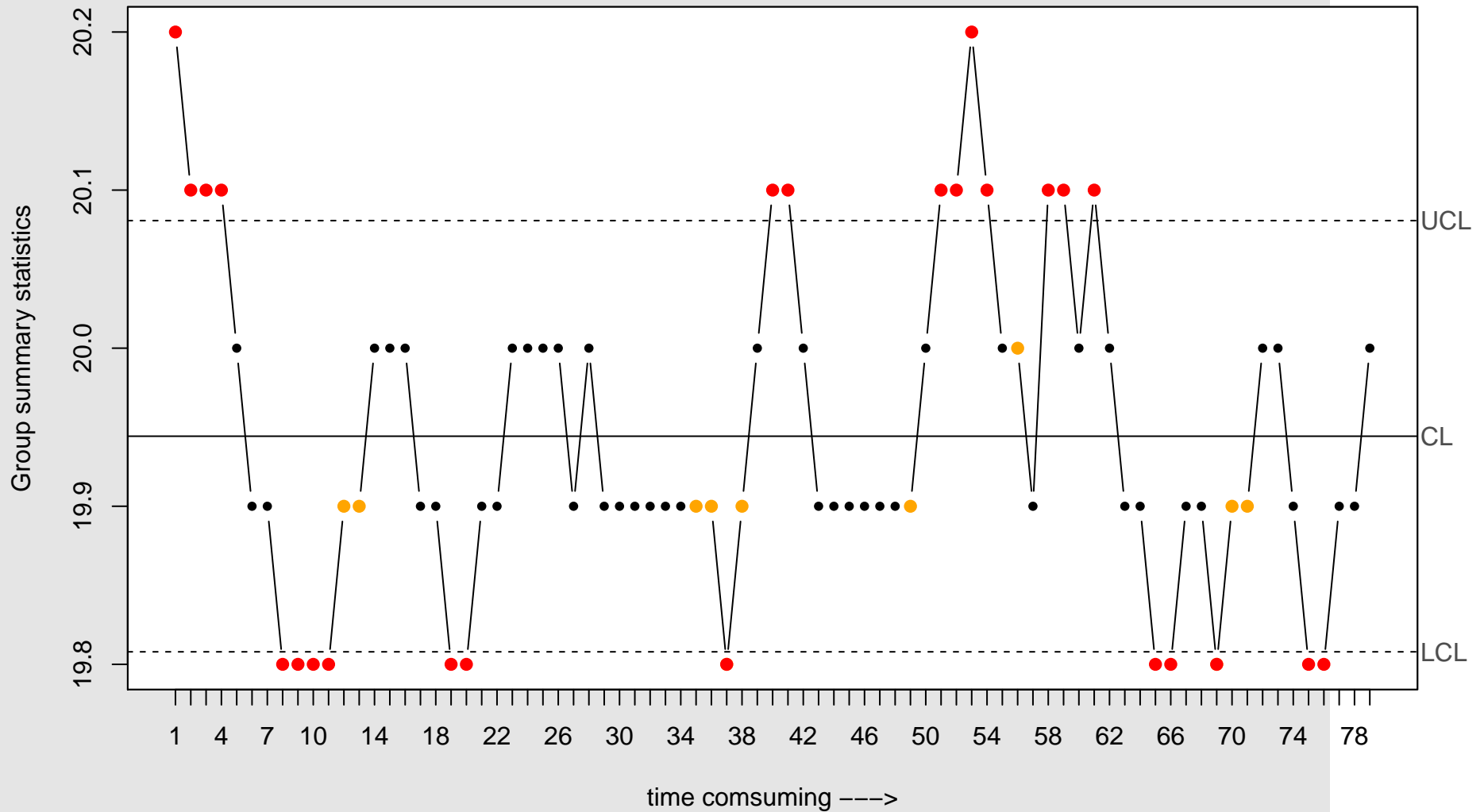


Number of groups = 79
 Center = 19.98354
 StdDev = 0.04546281

LCL = 19.84716
 UCL = 20.11993

Number beyond limits = 9
 Number violating runs = 11

128th column point of this product

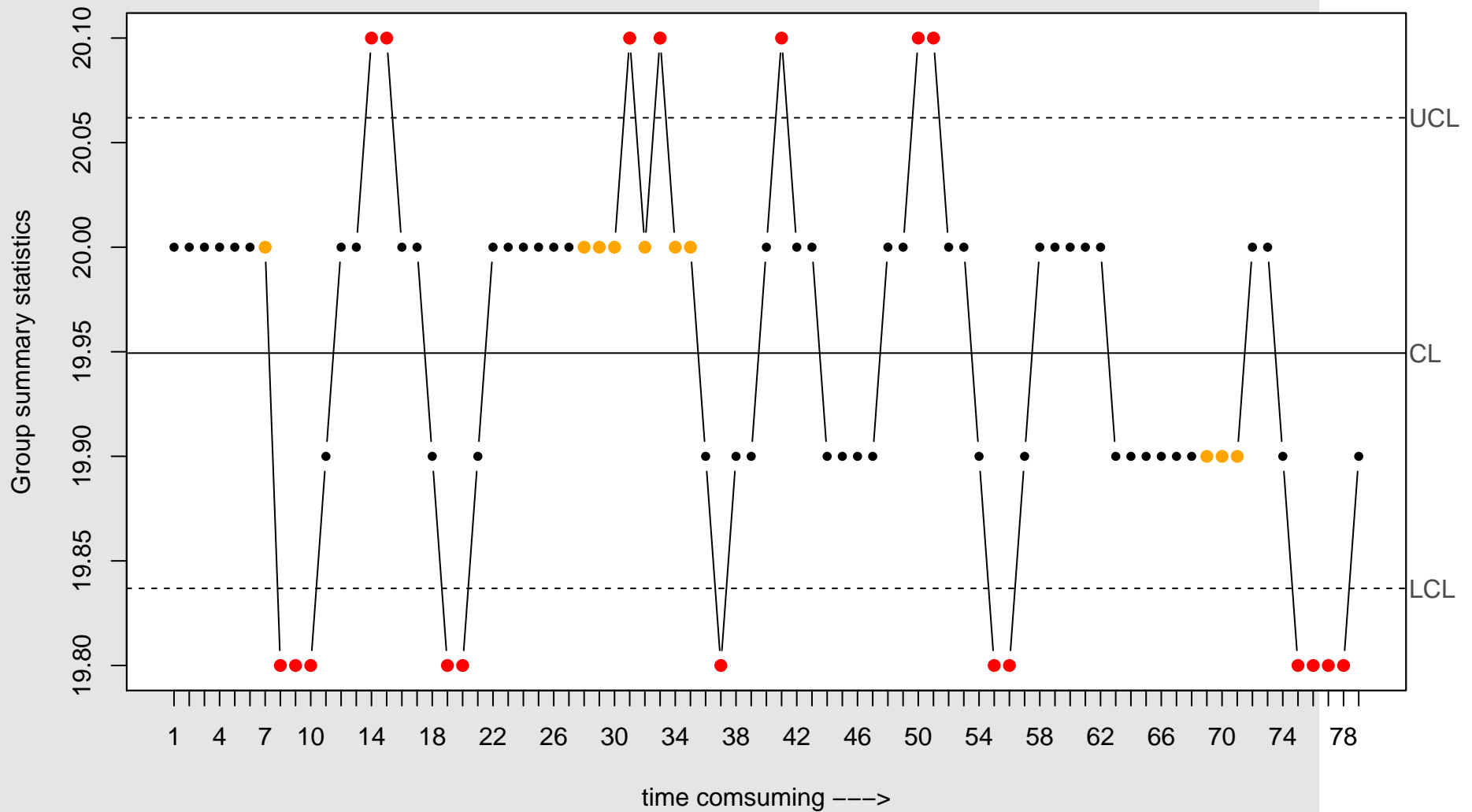


Number of groups = 79
 Center = 19.9443
 StdDev = 0.04546281

LCL = 19.80792
 UCL = 20.08069

Number beyond limits = 25
 Number violating runs = 11

129th column point of this product

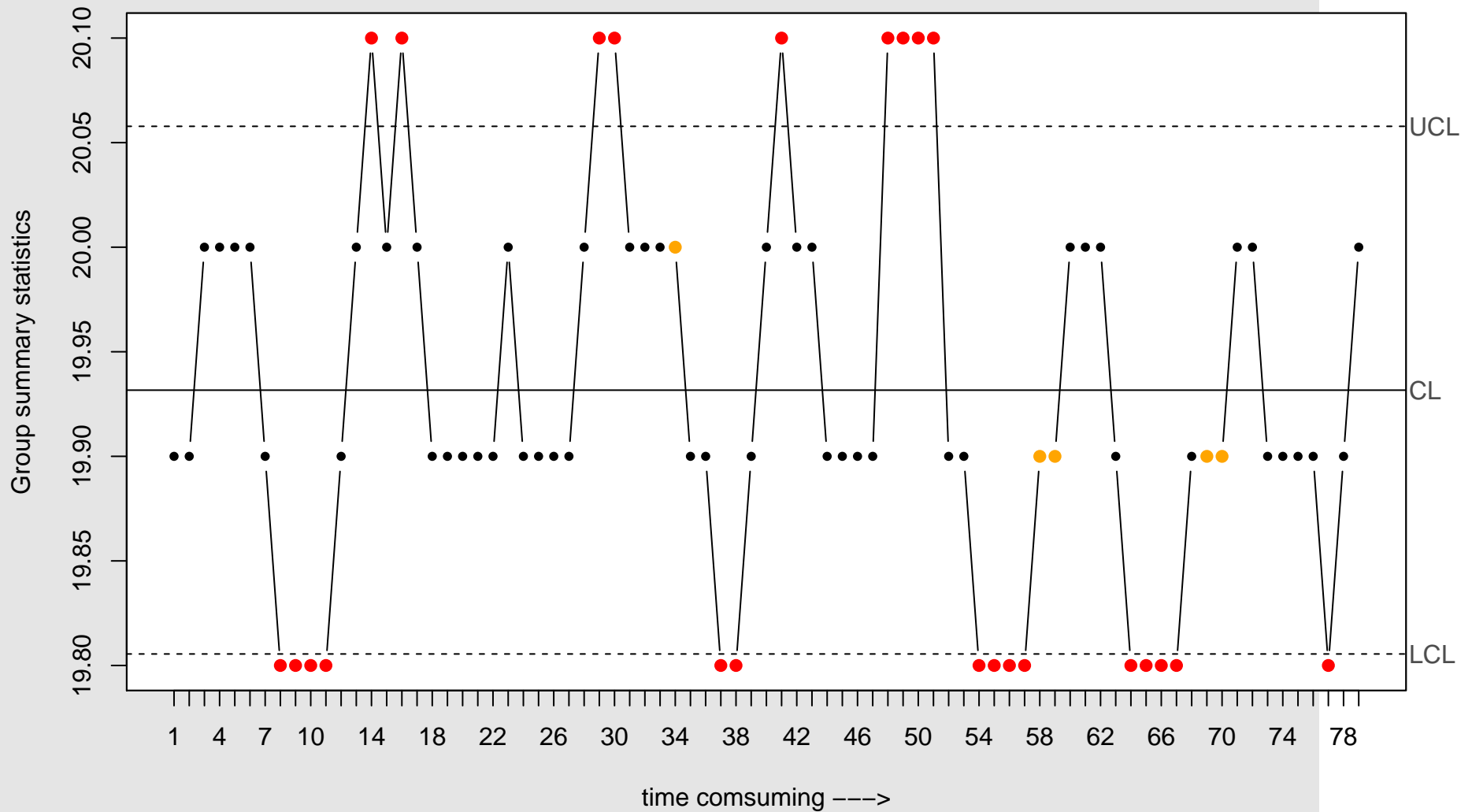


Number of groups = 79
 Center = 19.94937
 StdDev = 0.03750682

LCL = 19.83685
 UCL = 20.06189

Number beyond limits = 19
 Number violating runs = 12

130th column point of this product

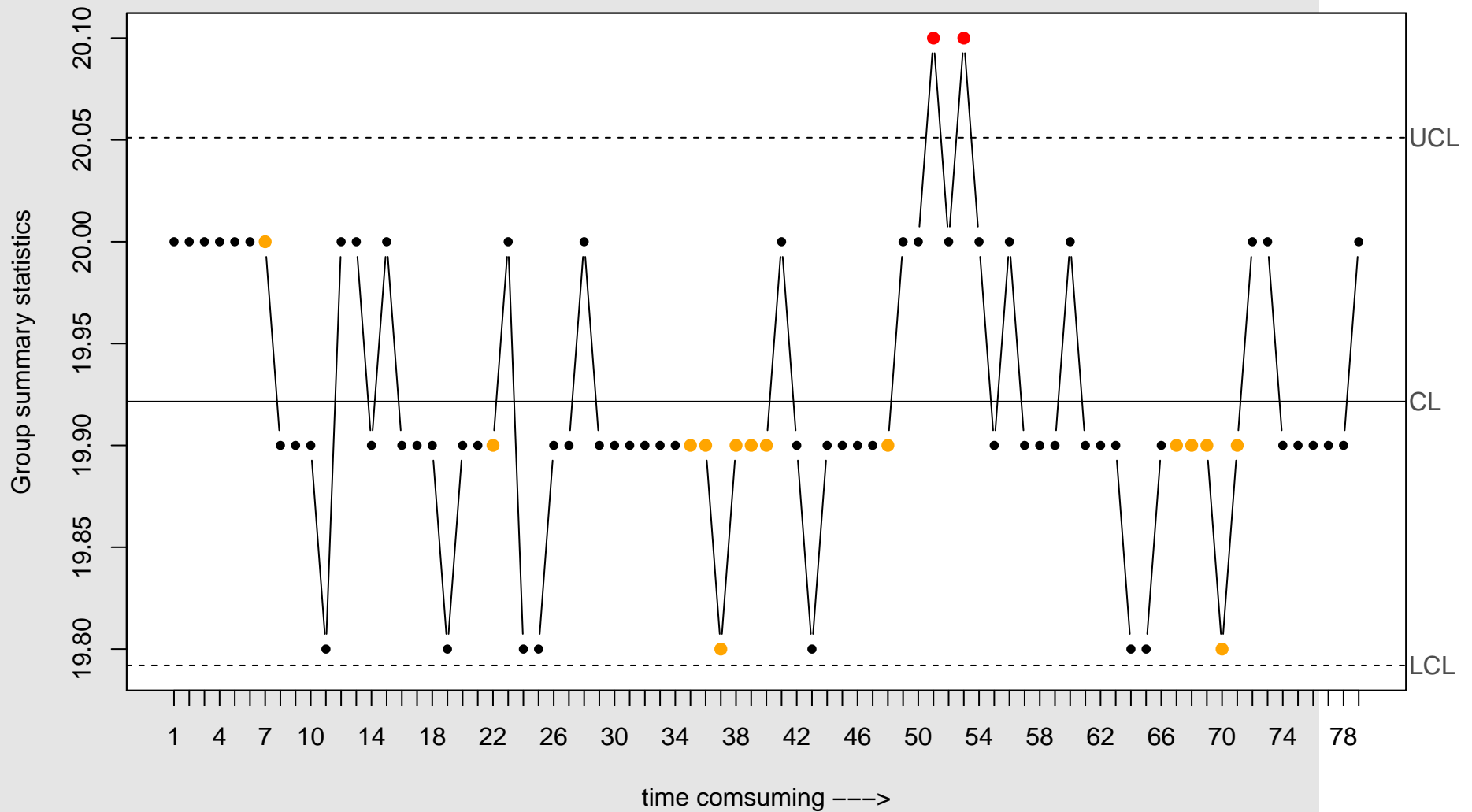


Number of groups = 79
Center = 19.93165
StdDev = 0.0420531

LCL = 19.80549
UCL = 20.0578

Number beyond limits = 24
Number violating runs = 5

131th column point of this product

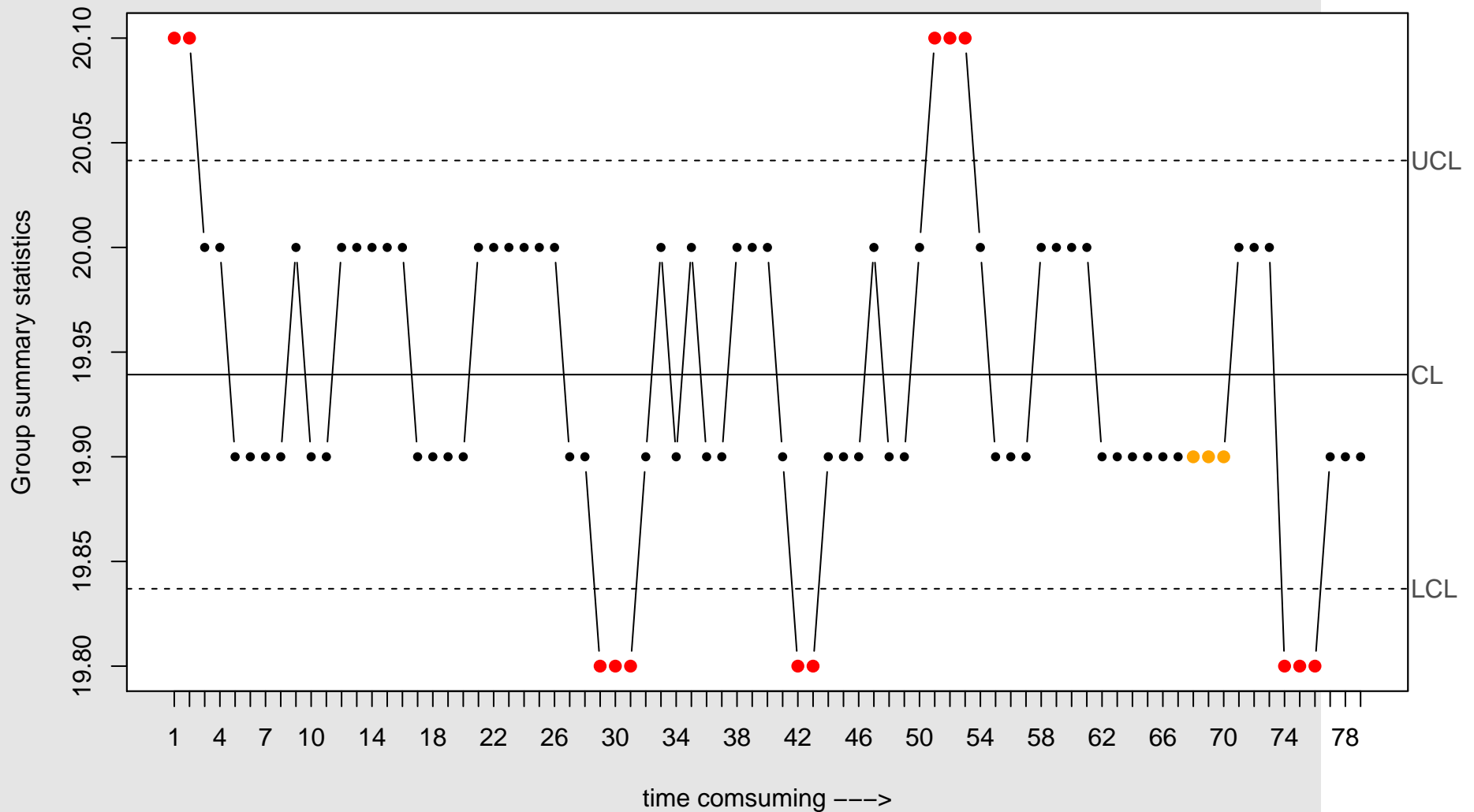


Number of groups = 79
Center = 19.92152
StdDev = 0.04318967

LCL = 19.79195
UCL = 20.05109

Number beyond limits = 2
Number violating runs = 14

132th column point of this product

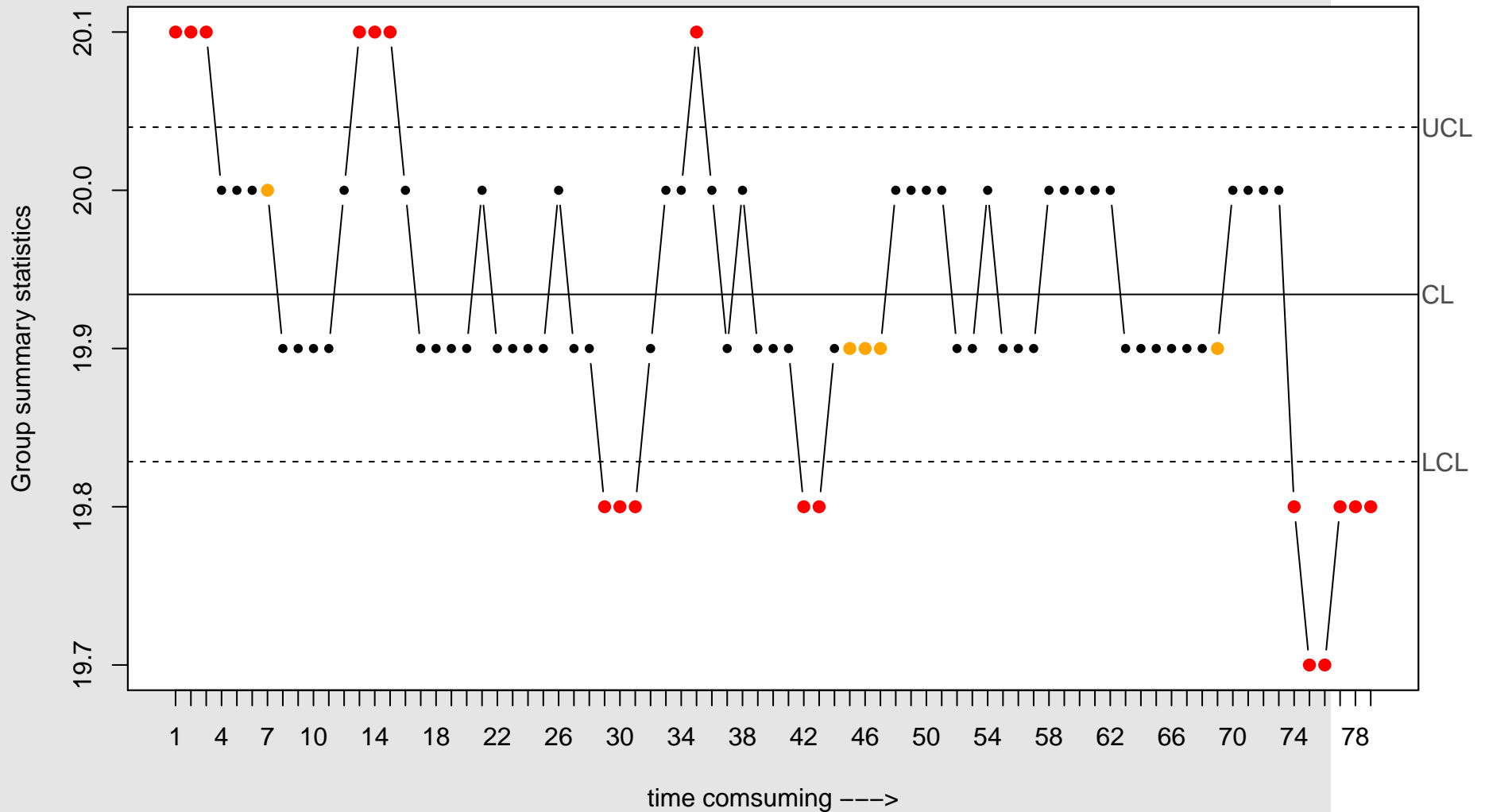


Number of groups = 79
Center = 19.93924
StdDev = 0.03409711

LCL = 19.83695
UCL = 20.04153

Number beyond limits = 13
Number violating runs = 3

133th column point of this product

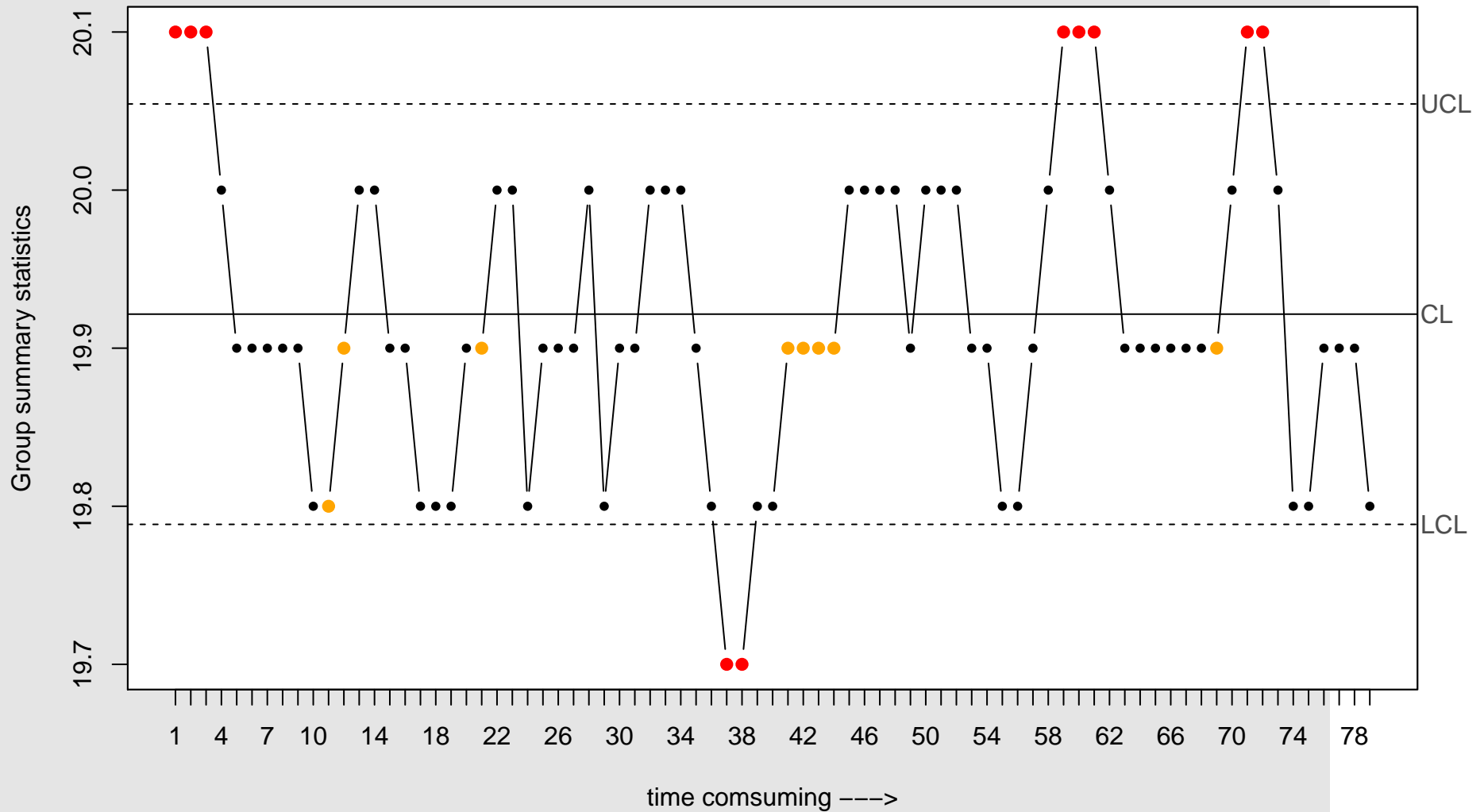


Number of groups = 79
Center = 19.93418
StdDev = 0.03523368

LCL = 19.82848
UCL = 20.03988

Number beyond limits = 18
Number violating runs = 5

134th column point of this product

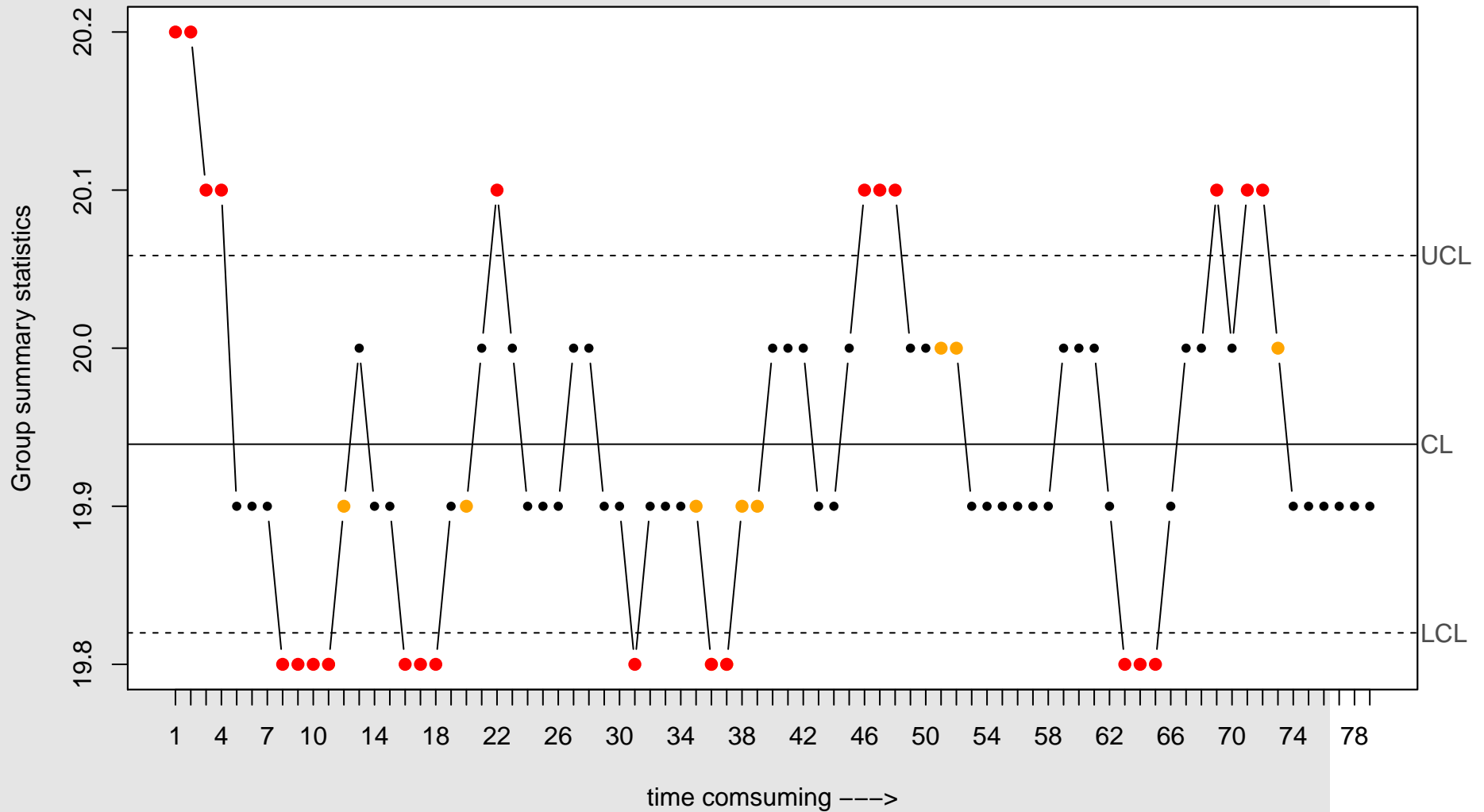


Number of groups = 79
Center = 19.92152
StdDev = 0.04432624

LCL = 19.78854
UCL = 20.0545

Number beyond limits = 10
Number violating runs = 8

135th column point of this product

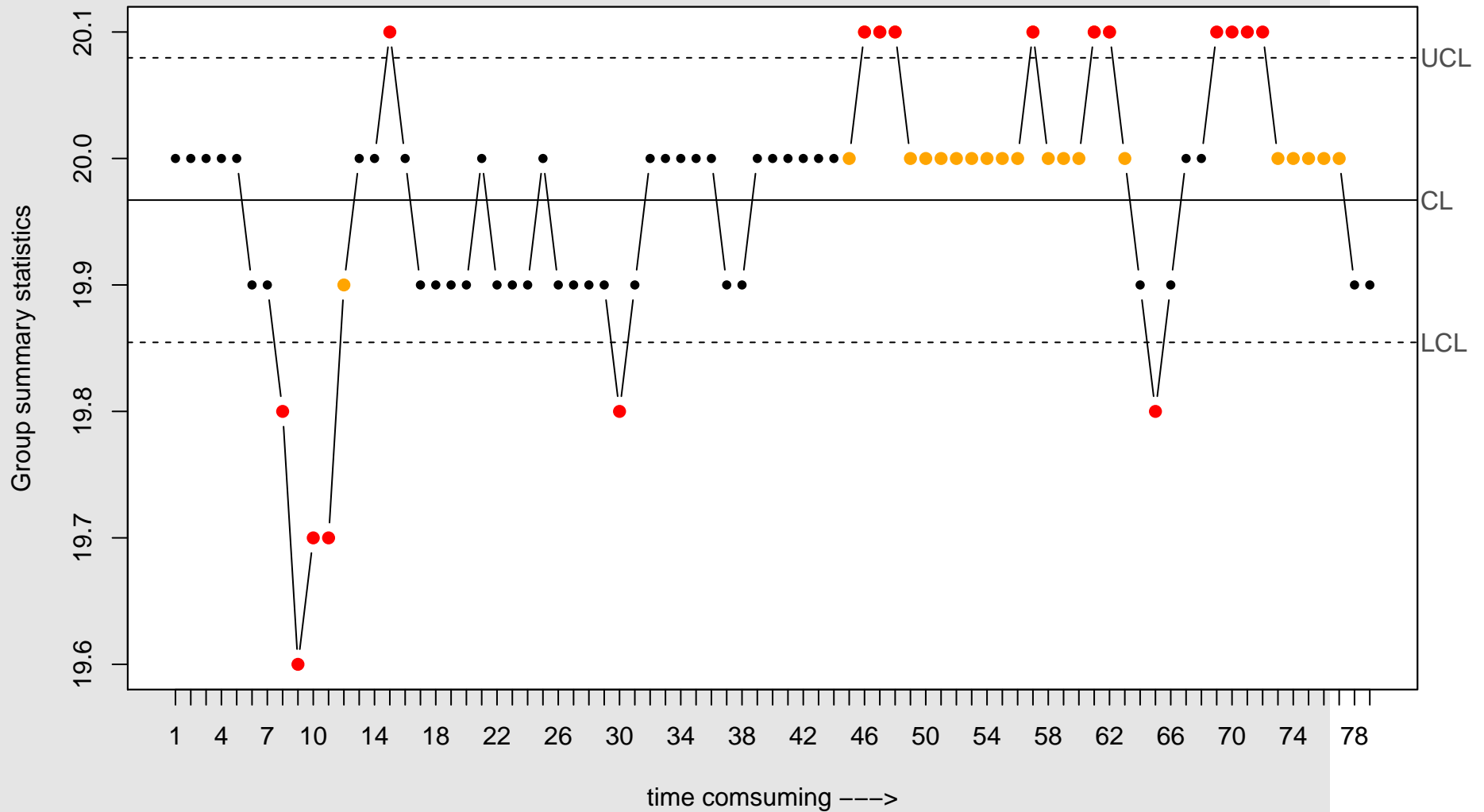


Number of groups = 79
Center = 19.93924
StdDev = 0.03977996

LCL = 19.8199
UCL = 20.05858

Number beyond limits = 24
Number violating runs = 11

136th column point of this product

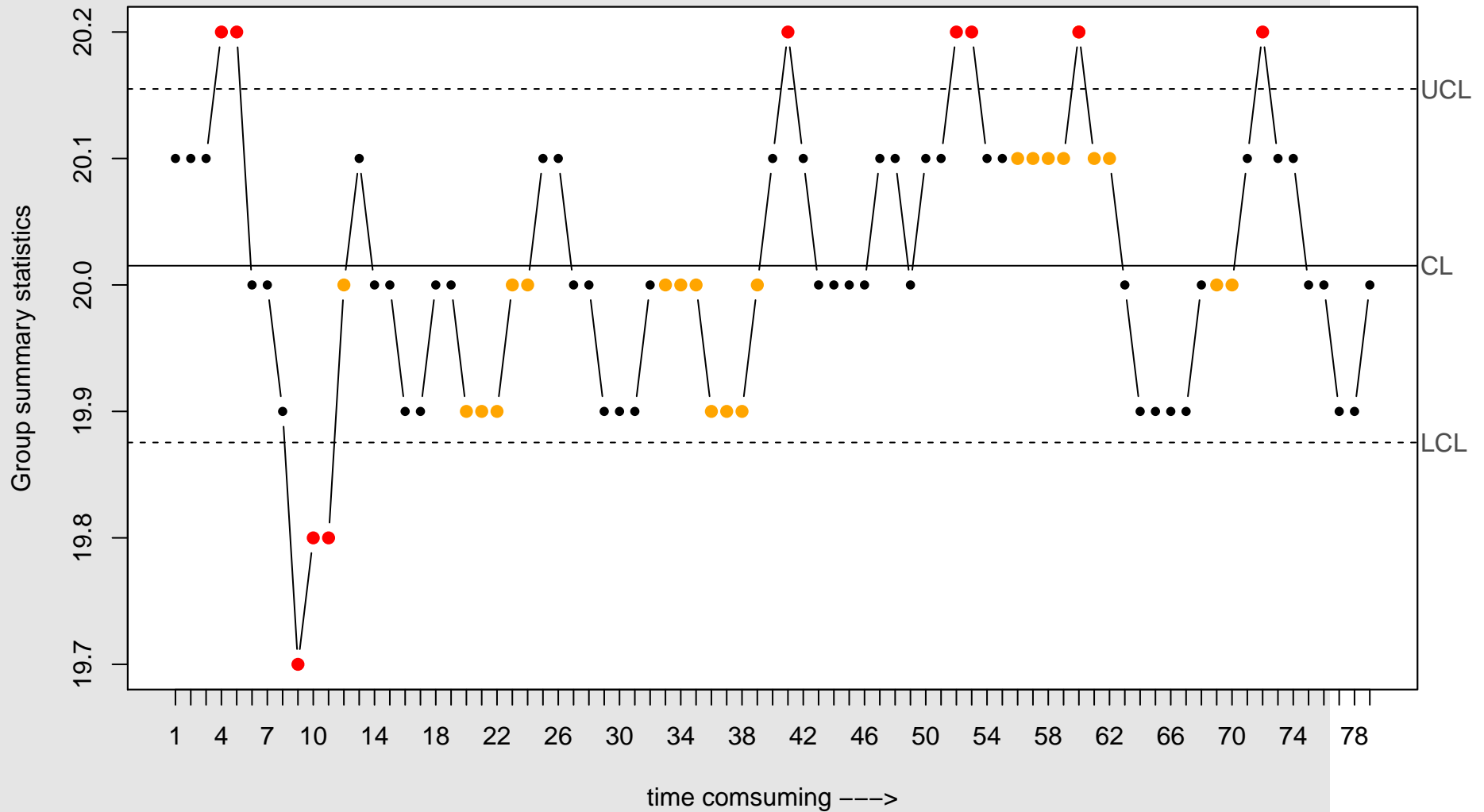


Number of groups = 79
 Center = 19.96709
 StdDev = 0.03750682

LCL = 19.85457
 UCL = 20.07961

Number beyond limits = 17
 Number violating runs = 25

137th column point of this product

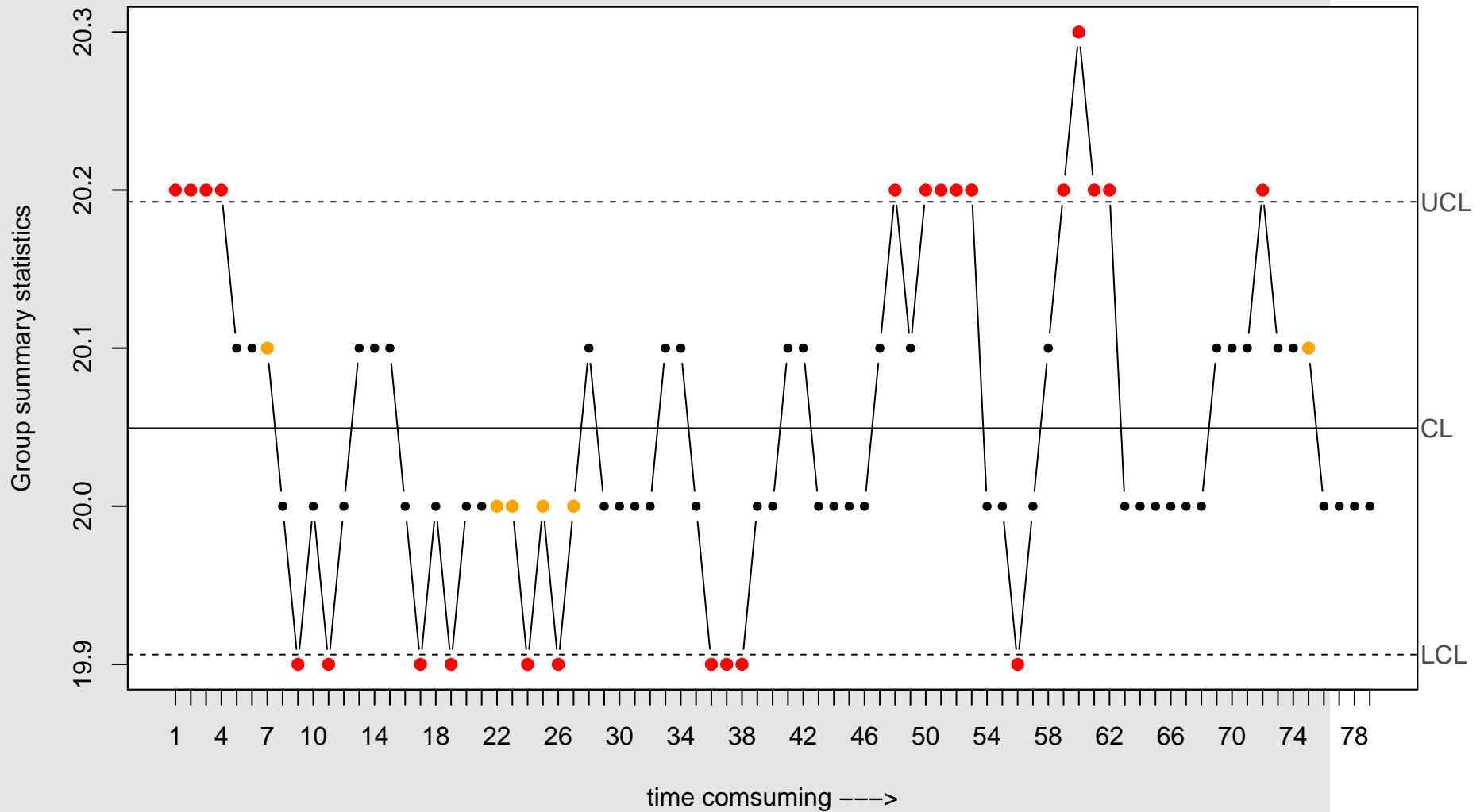


Number of groups = 79
Center = 20.01519
StdDev = 0.04659938

LCL = 19.87539
UCL = 20.15499

Number beyond limits = 10
Number violating runs = 22

138th column point of this product

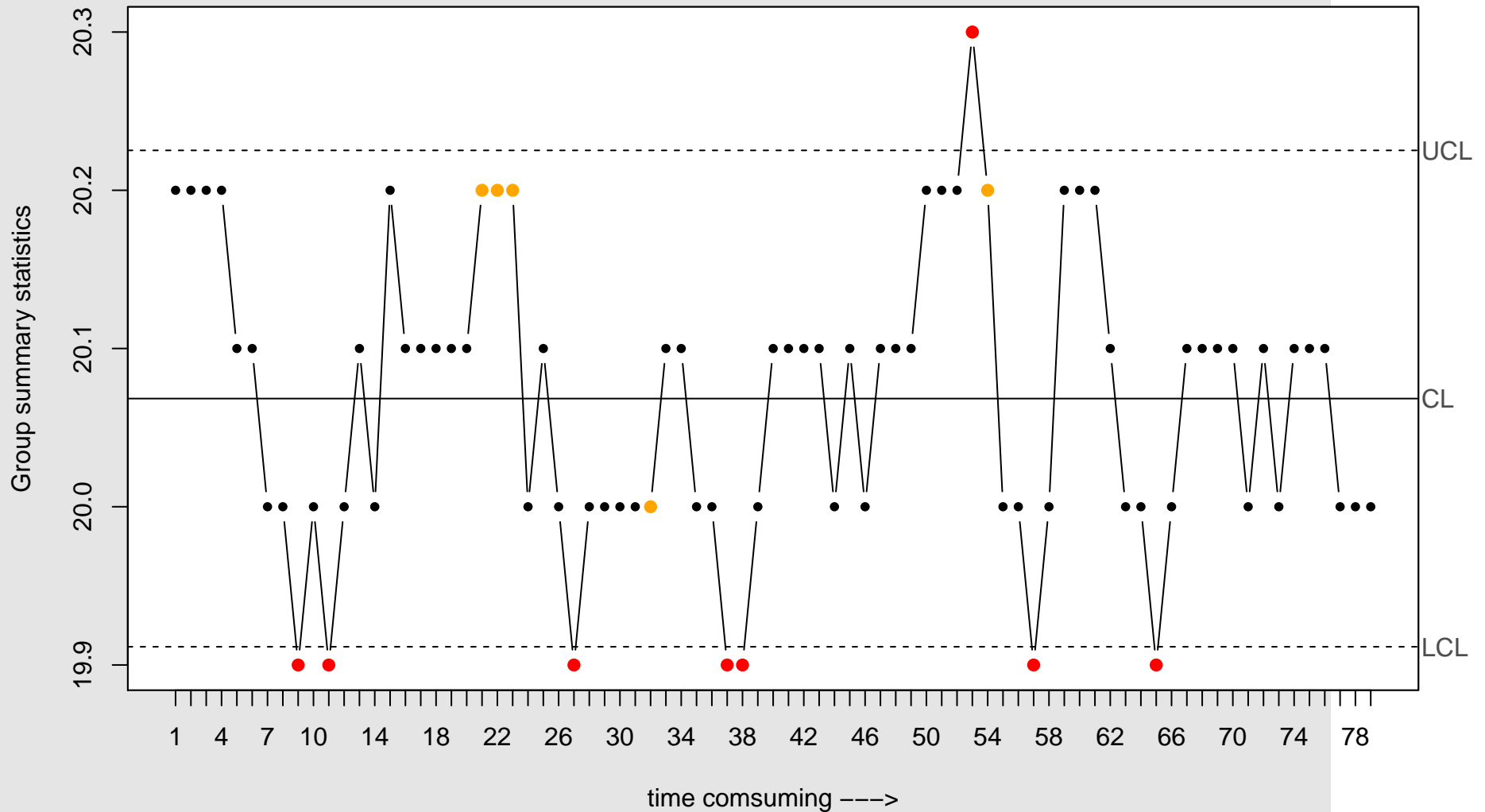


Number of groups = 79
Center = 20.04937
StdDev = 0.04773595

LCL = 19.90616
UCL = 20.19257

Number beyond limits = 24
Number violating runs = 9

139th column point of this product

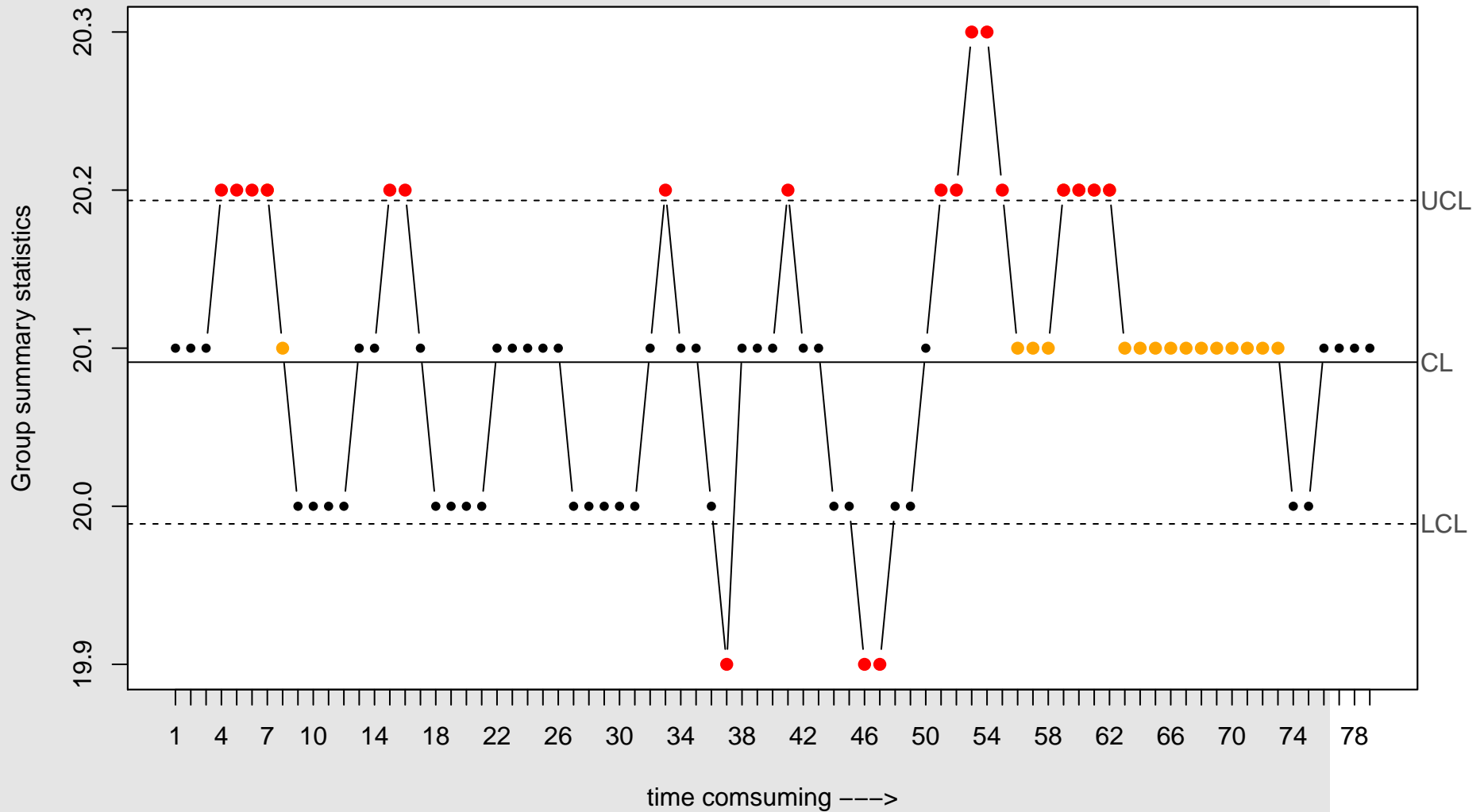


Number of groups = 79
 Center = 20.06835
 StdDev = 0.05228223

LCL = 19.91151
 UCL = 20.2252

Number beyond limits = 8
 Number violating runs = 6

140th column point of this product

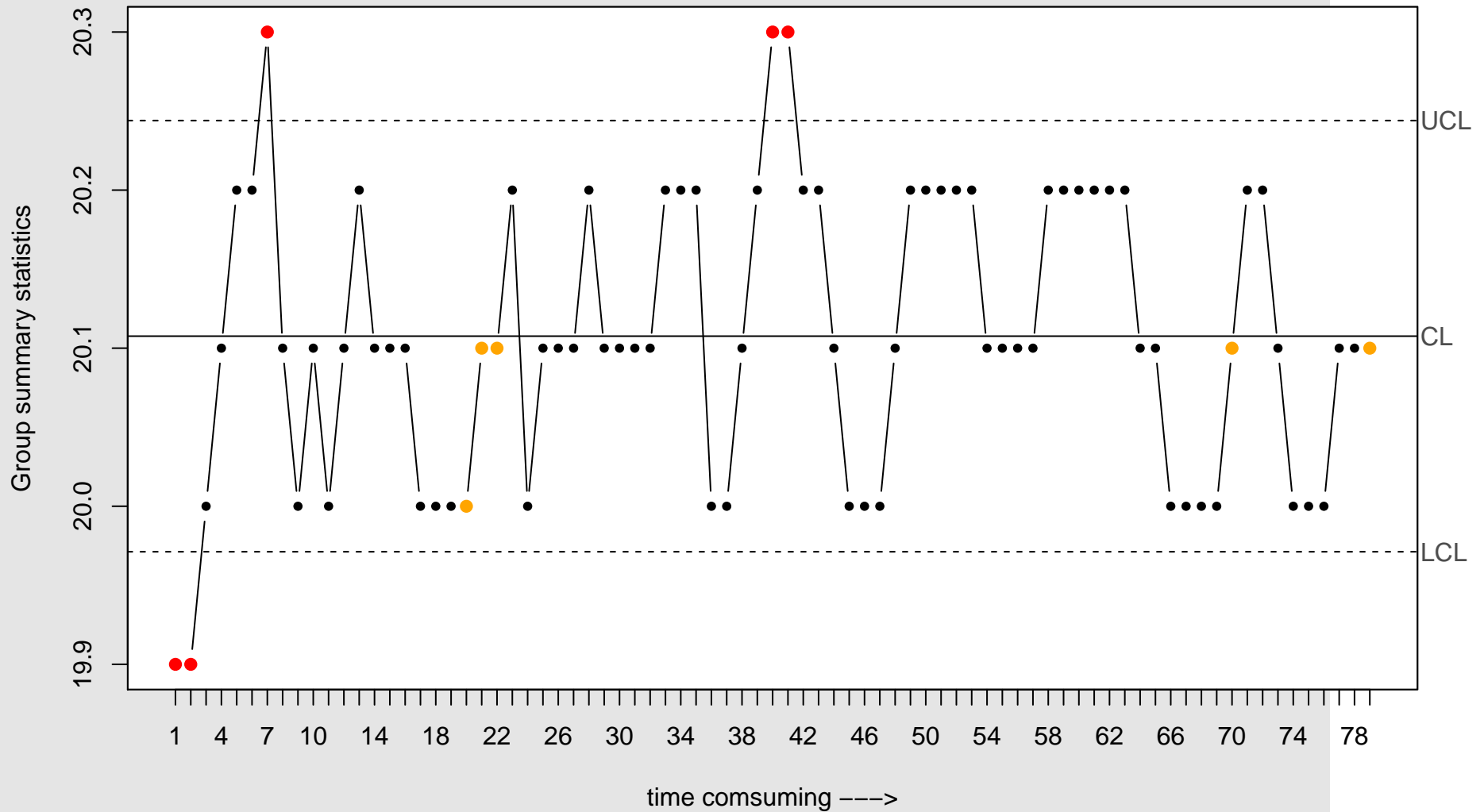


Number of groups = 79
 Center = 20.09114
 StdDev = 0.03409711

LCL = 19.98885
 UCL = 20.19343

Number beyond limits = 20
 Number violating runs = 20

141th column point of this product

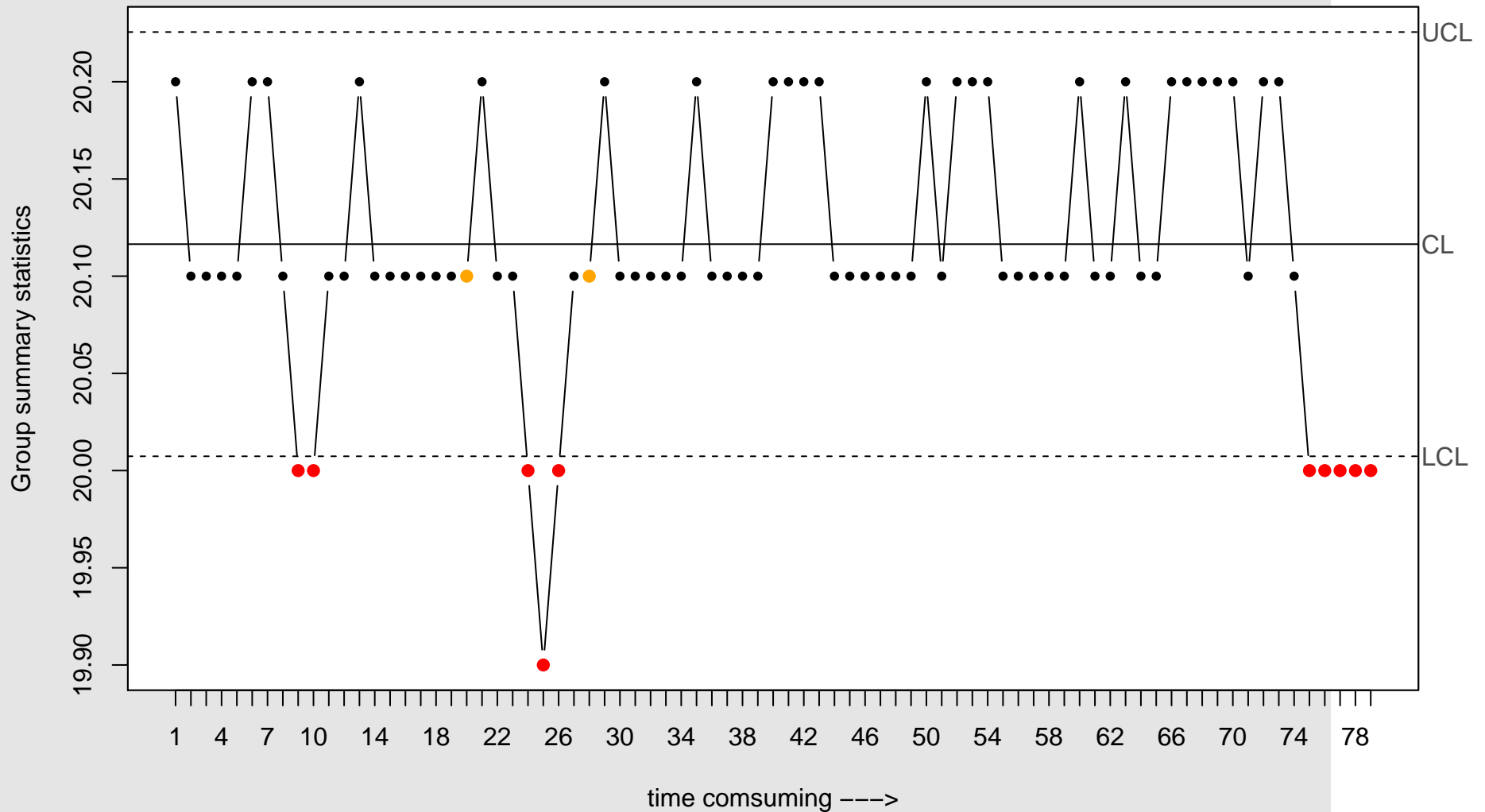


Number of groups = 79
 Center = 20.10759
 StdDev = 0.04546281

LCL = 19.97121
 UCL = 20.24398

Number beyond limits = 5
 Number violating runs = 5

142th column point of this product

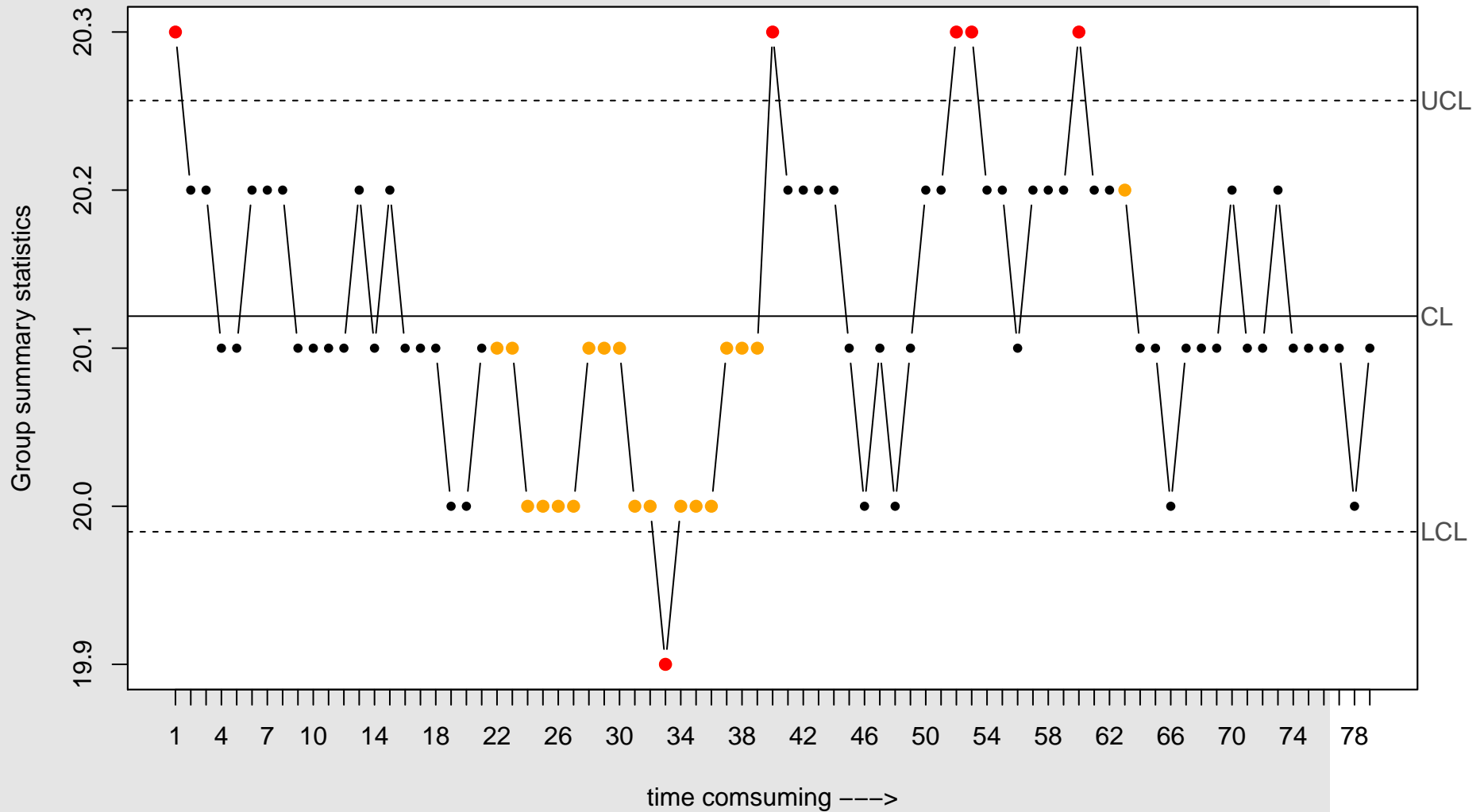


Number of groups = 79
 Center = 20.11646
 StdDev = 0.03637025

LCL = 20.00734
 UCL = 20.22557

Number beyond limits = 10
 Number violating runs = 2

143th column point of this product

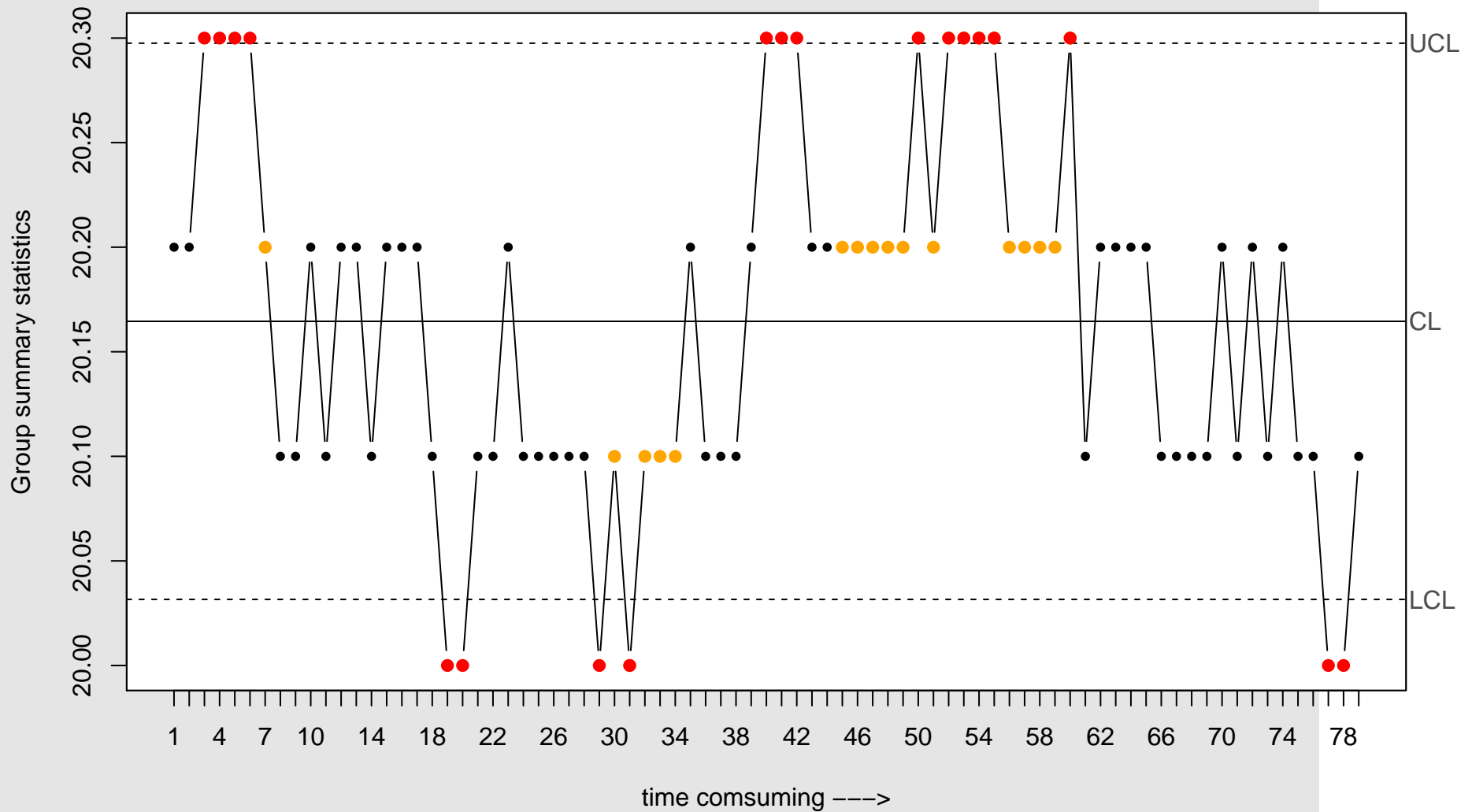


Number of groups = 79
Center = 20.12025
StdDev = 0.04546281

LCL = 19.98386
UCL = 20.25664

Number beyond limits = 6
Number violating runs = 19

144th column point of this product

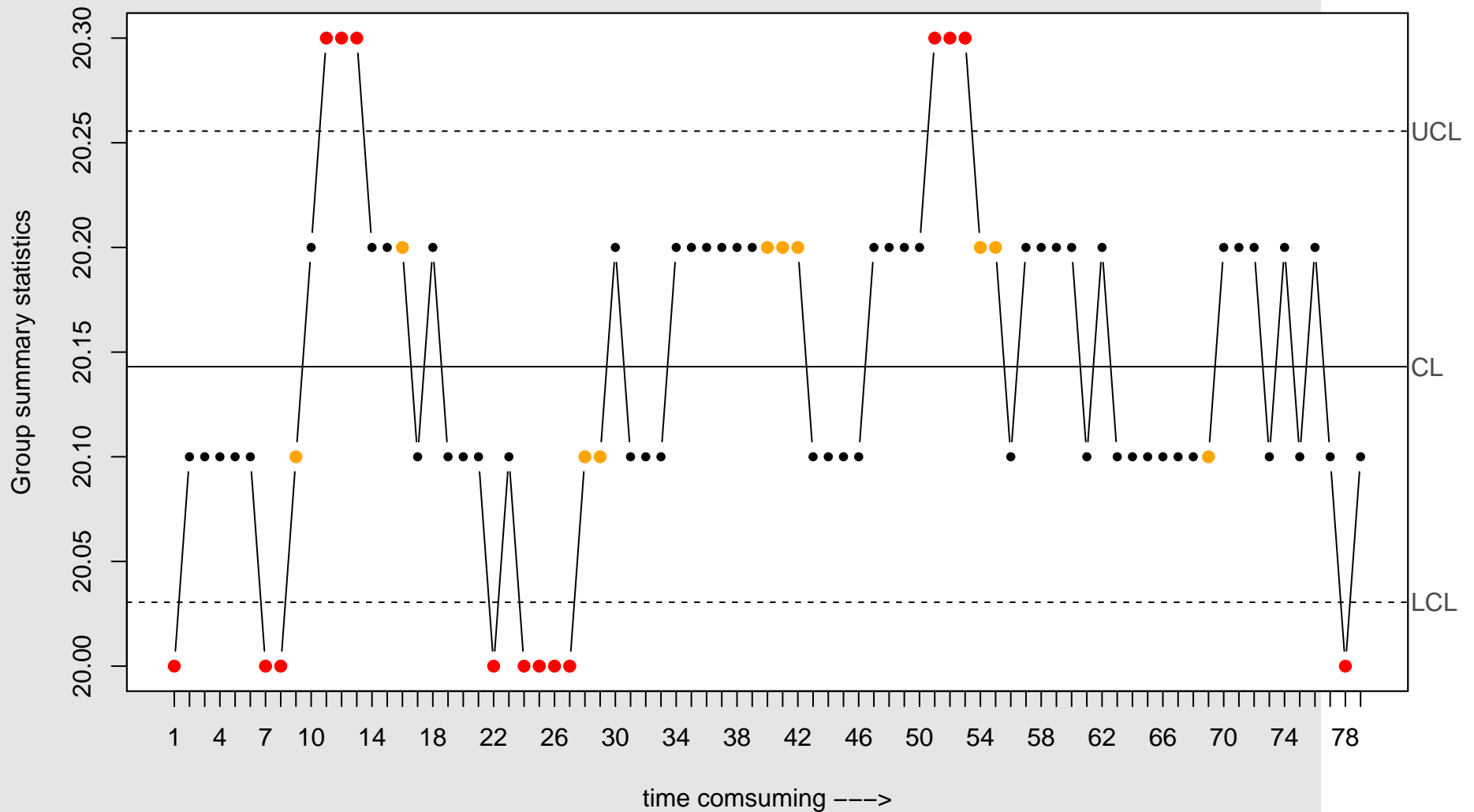


Number of groups = 79
 Center = 20.16456
 StdDev = 0.04432624

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

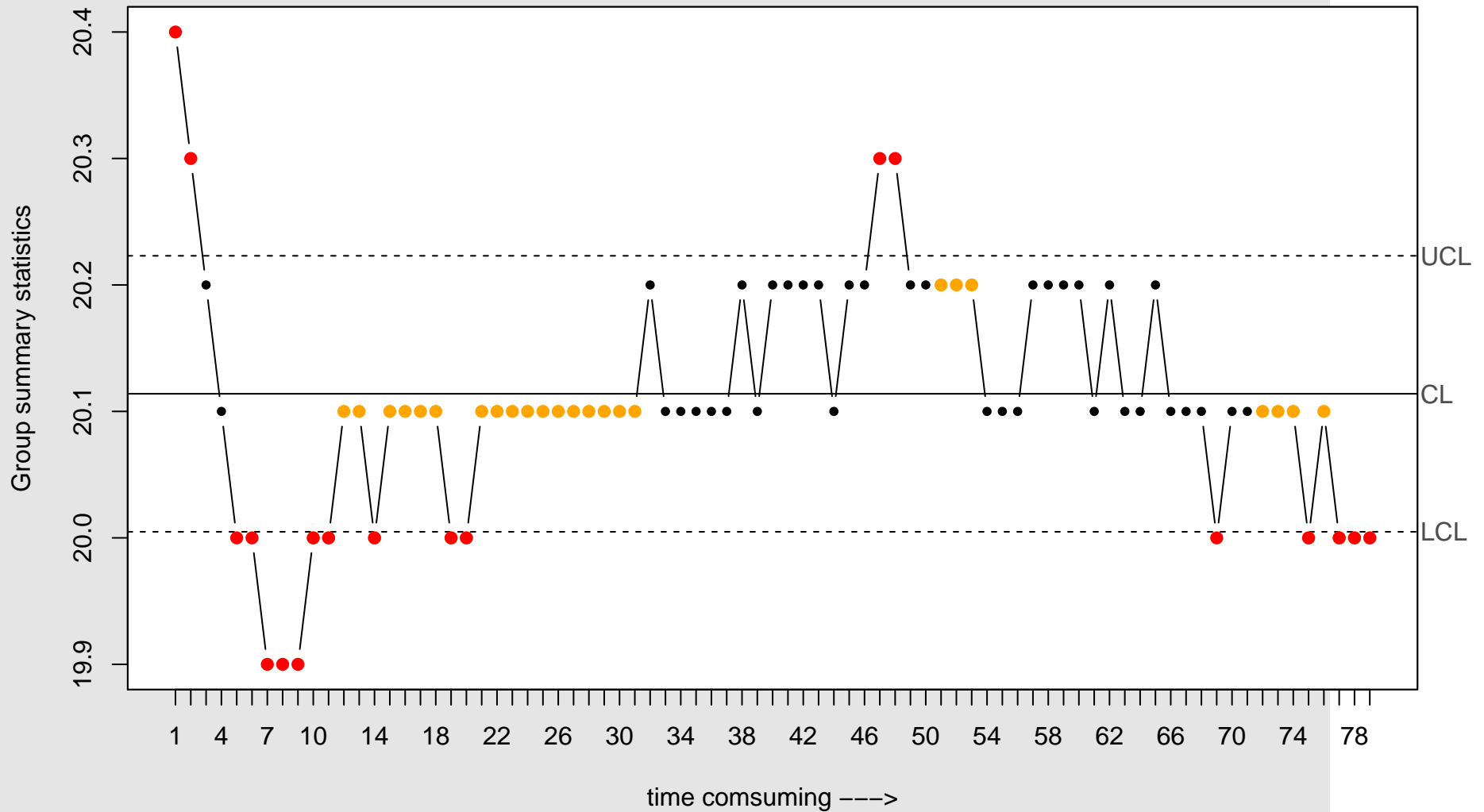
LCL = 20.03052

UCL = 20.25556

Number beyond limits = 15

Number violating runs = 16

146th column point of this product

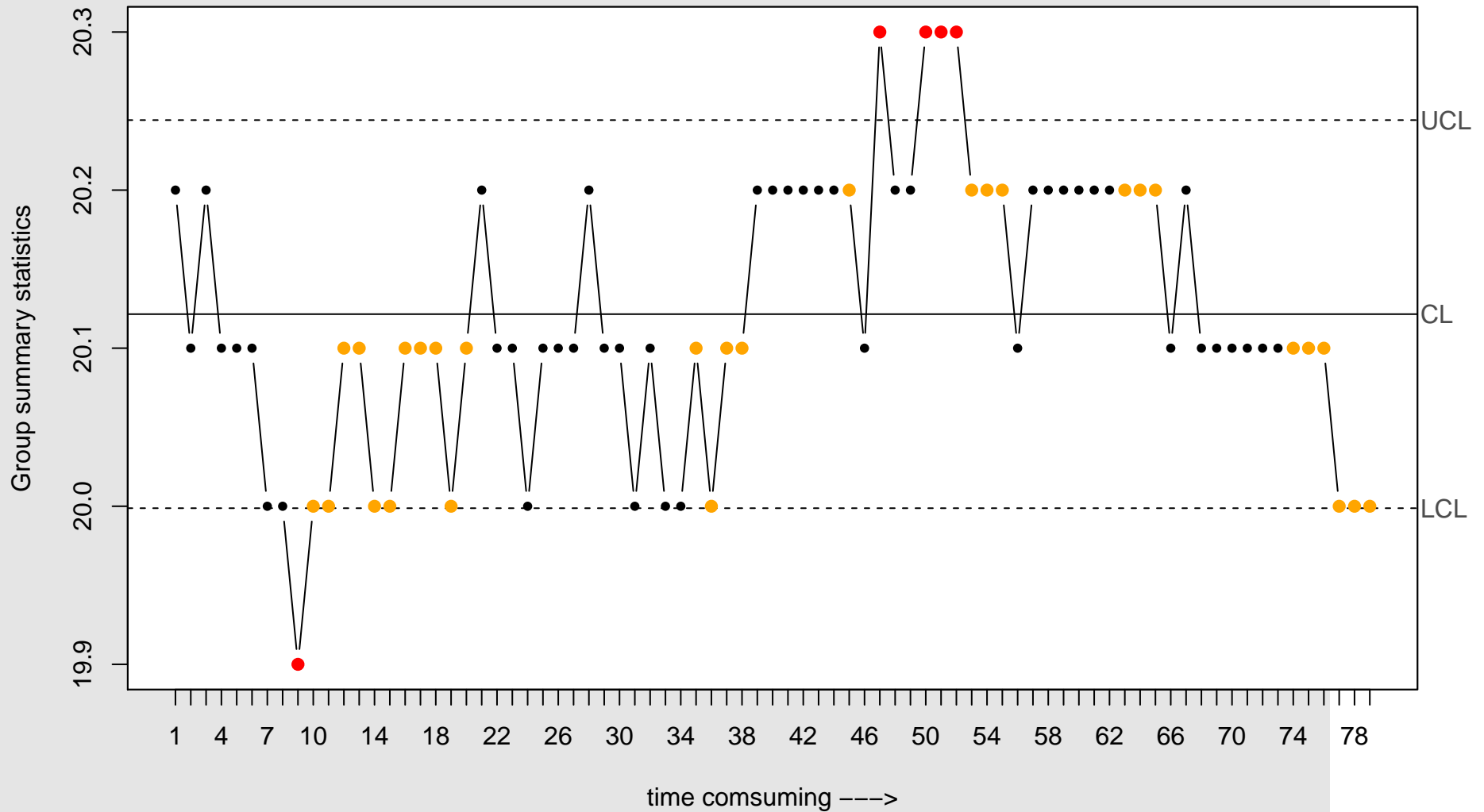


Number of groups = 79
Center = 20.11392
StdDev = 0.03637025

LCL = 20.00481
UCL = 20.22303

Number beyond limits = 19
Number violating runs = 33

147th column point of this product

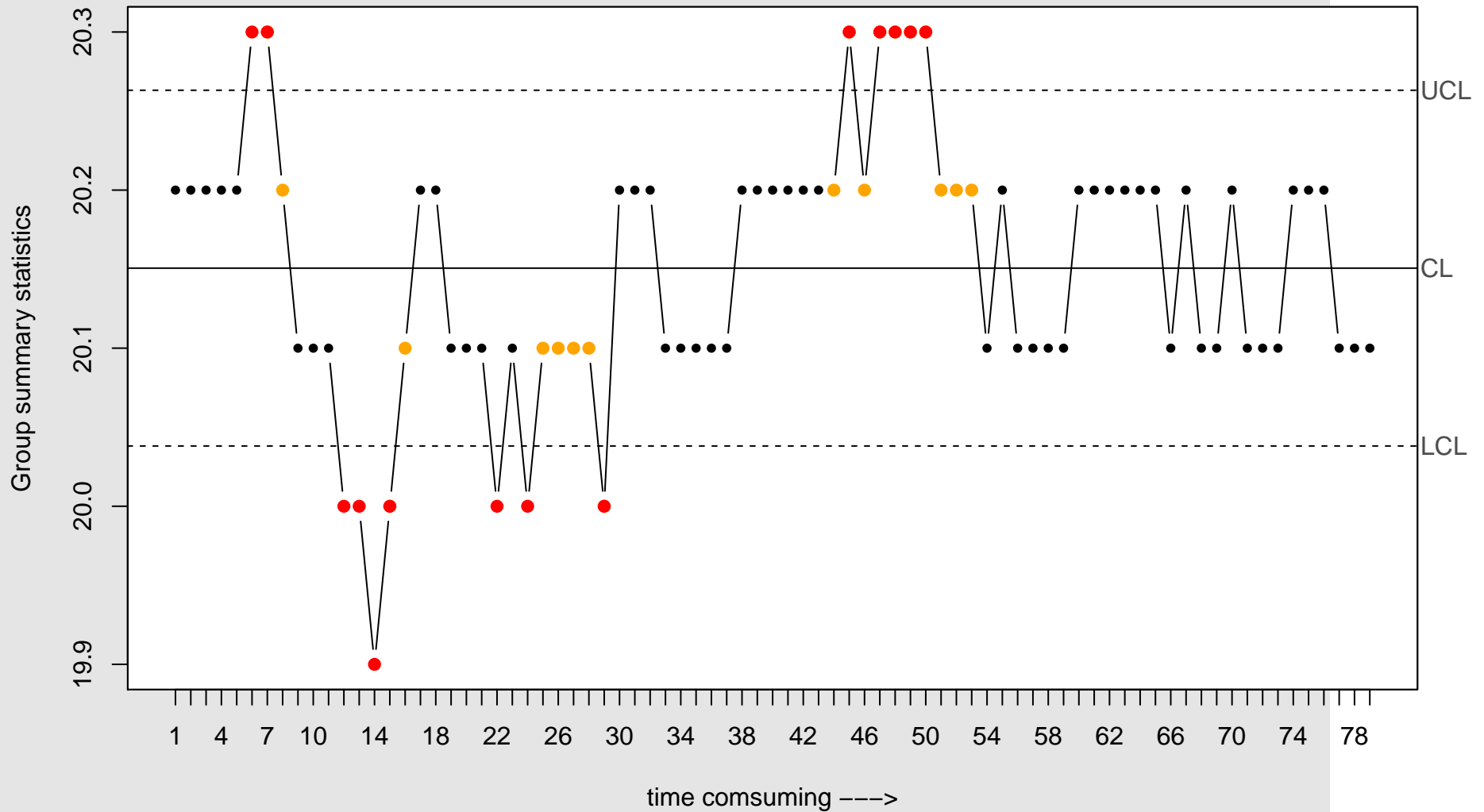


Number of groups = 79
Center = 20.12152
StdDev = 0.04091653

LCL = 19.99877
UCL = 20.24427

Number beyond limits = 5
Number violating runs = 28

148th column point of this product

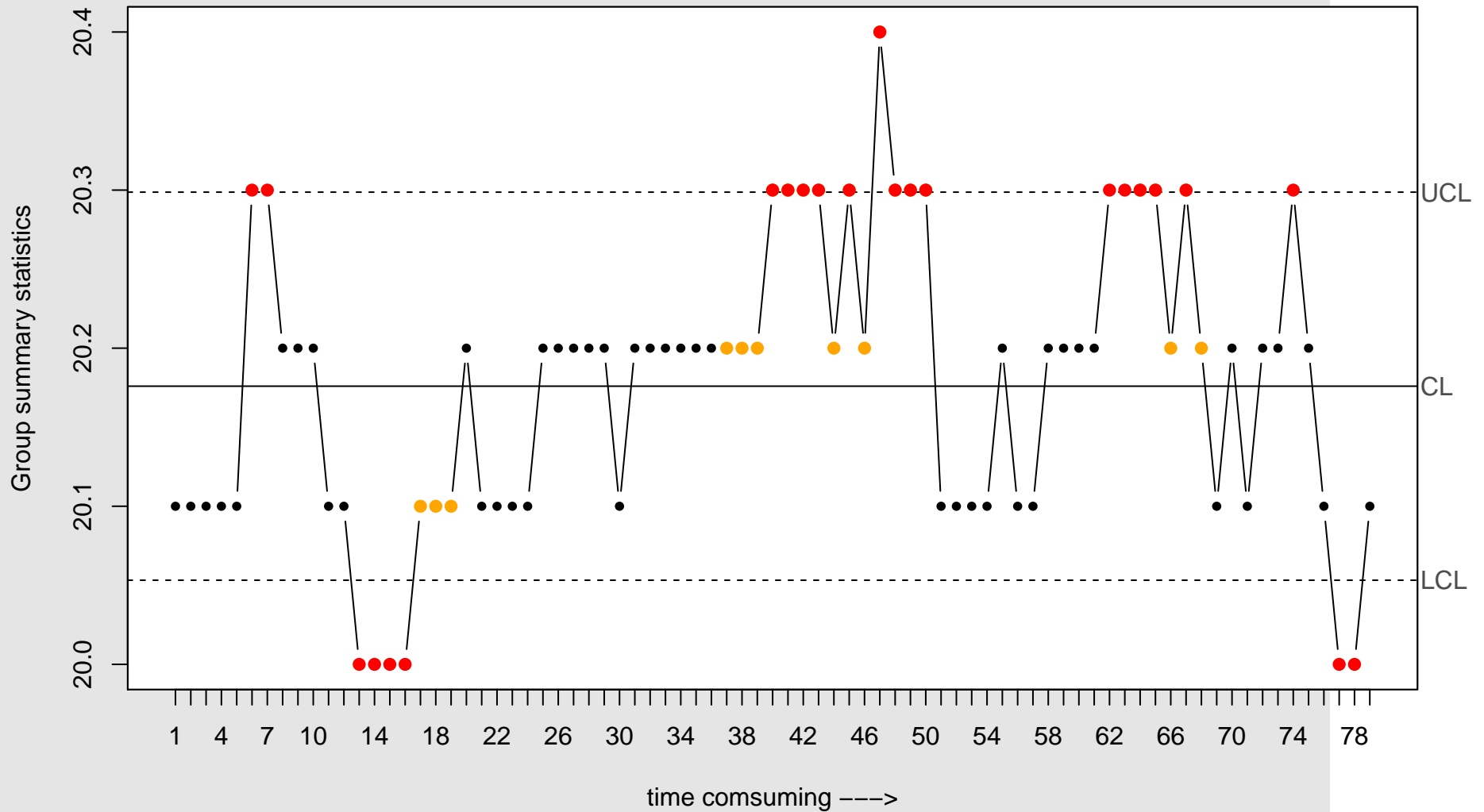


Number of groups = 79
Center = 20.15063
StdDev = 0.03750682

LCL = 20.03811
UCL = 20.26315

Number beyond limits = 14
Number violating runs = 19

149th column point of this product

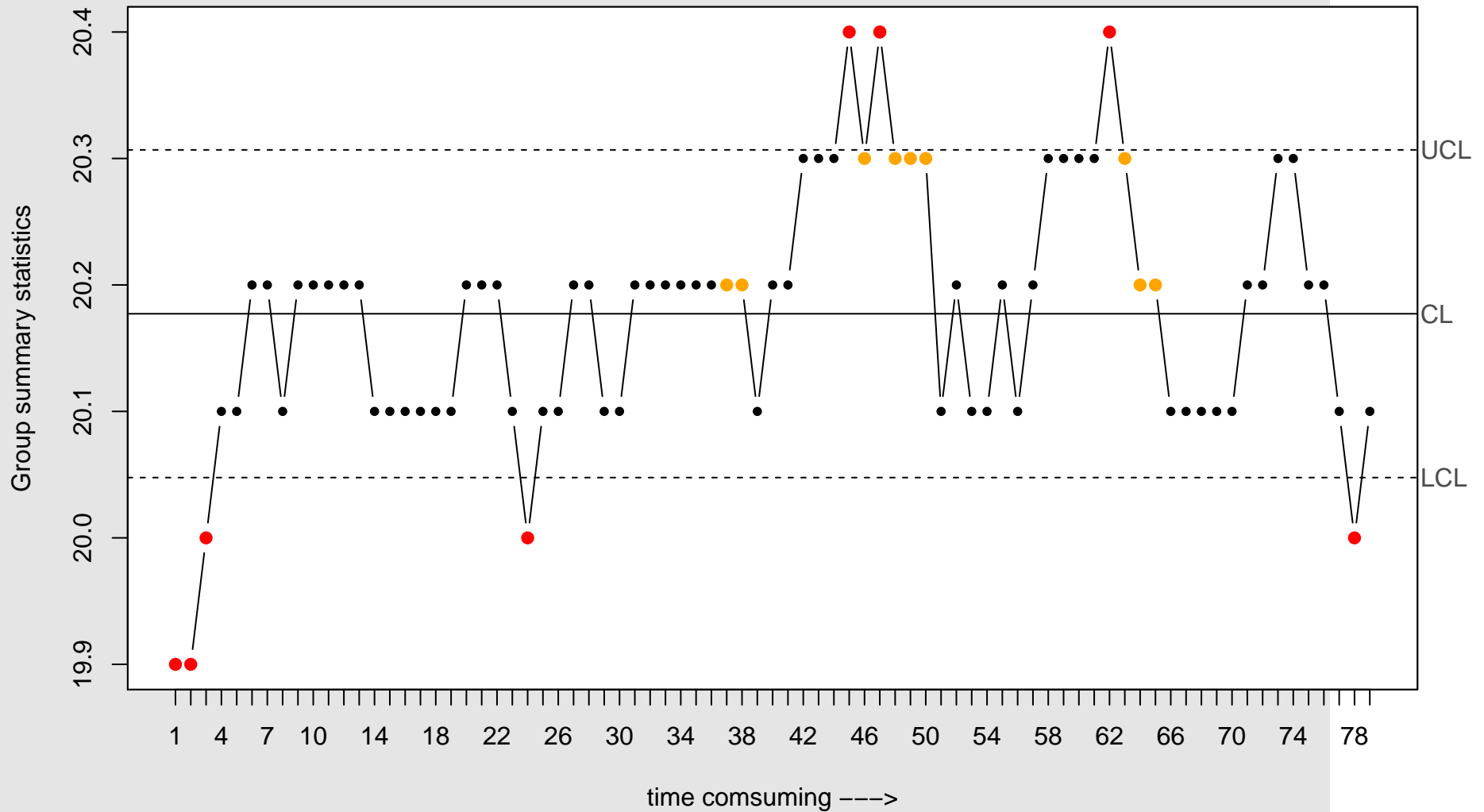


Number of groups = 79
Center = 20.17595
StdDev = 0.04091653

LCL = 20.0532
UCL = 20.2987

Number beyond limits = 23
Number violating runs = 22

150th column point of this product

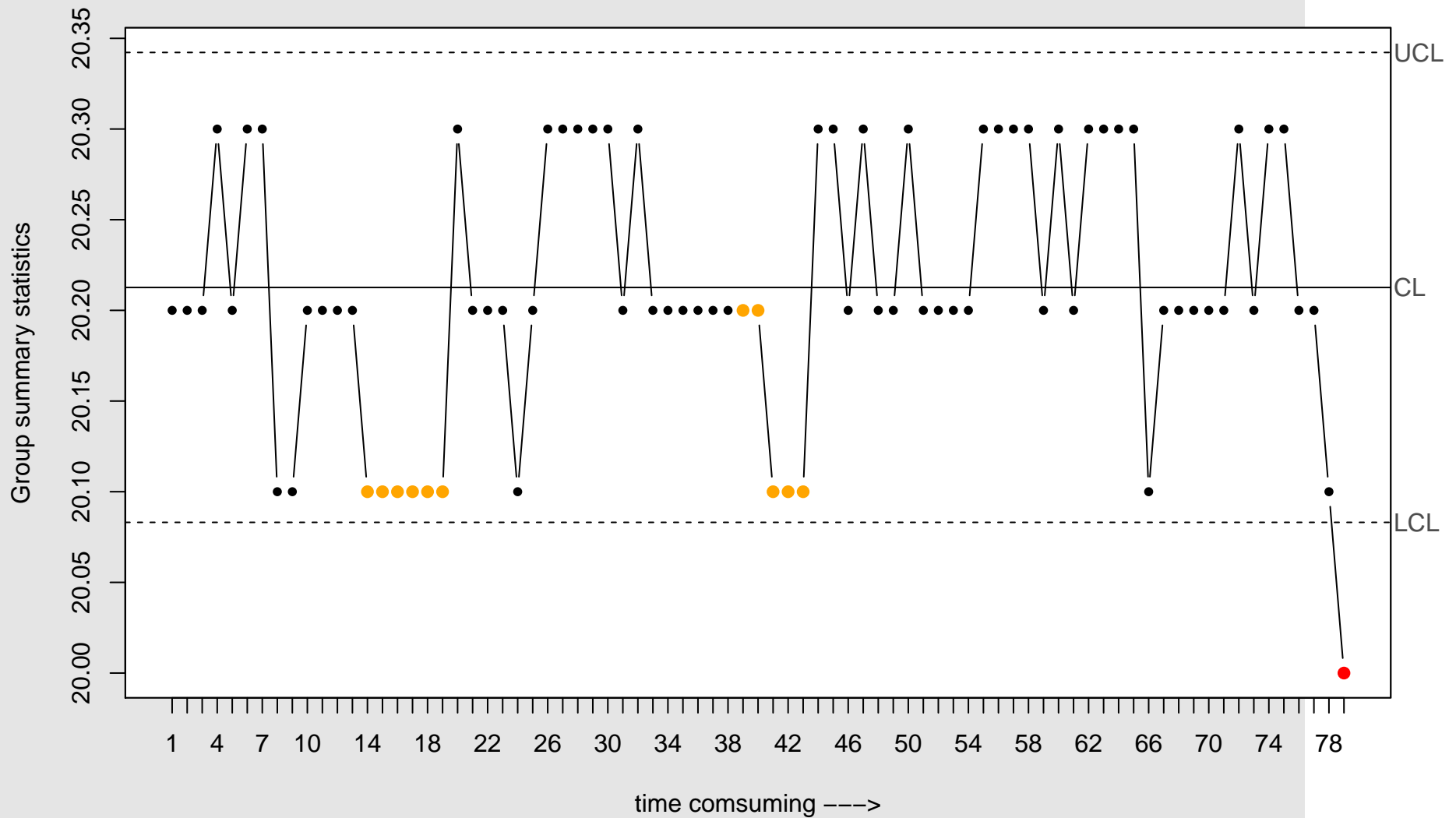


Number of groups = 79
 Center = 20.17722
 StdDev = 0.04318967

LCL = 20.04765
 UCL = 20.30678

Number beyond limits = 8
 Number violating runs = 10

151th column point of this product

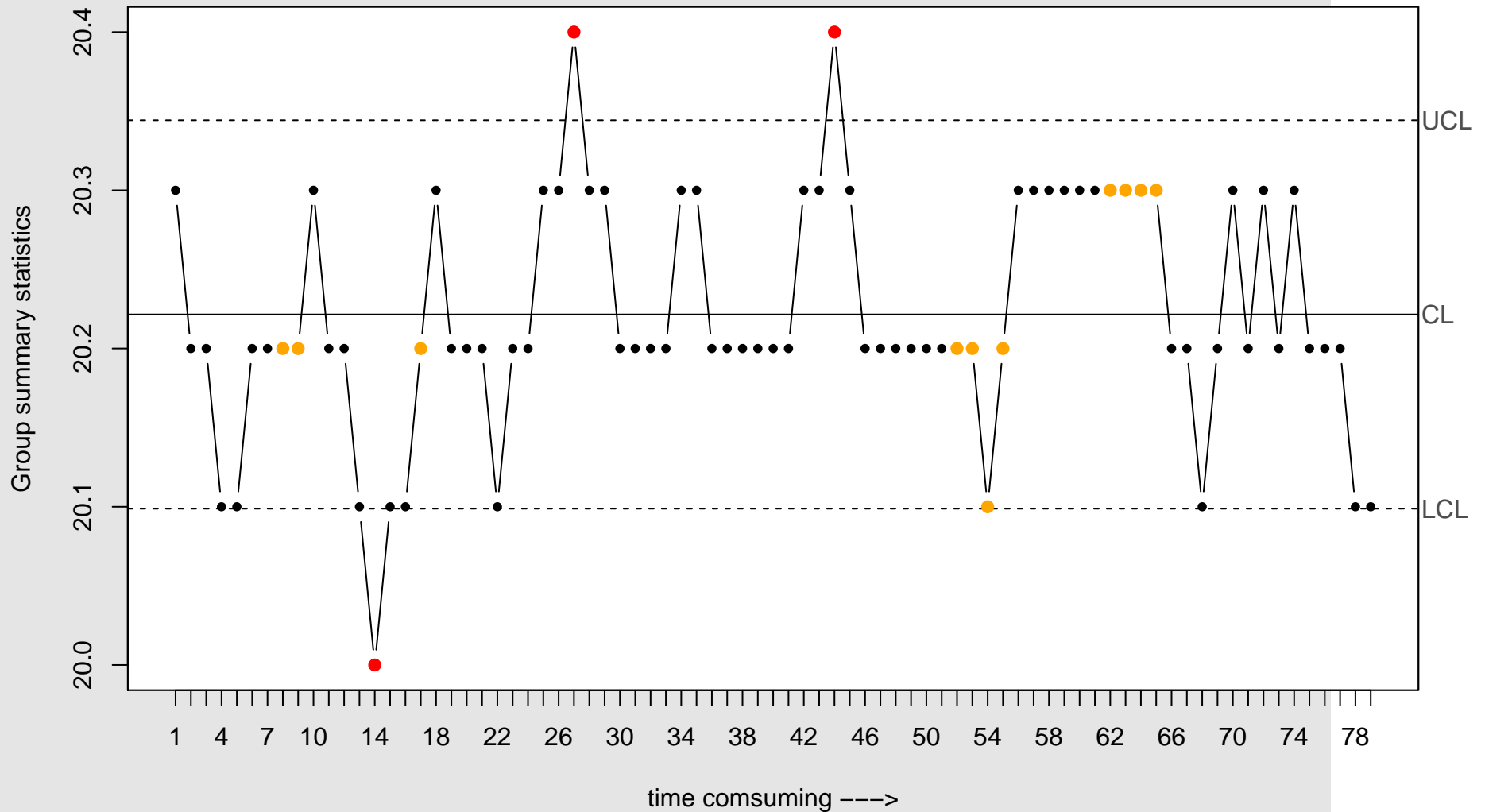


Number of groups = 79
 Center = 20.21266
 StdDev = 0.04318967

LCL = 20.08309
 UCL = 20.34223

Number beyond limits = 1
 Number violating runs = 11

152th column point of this product

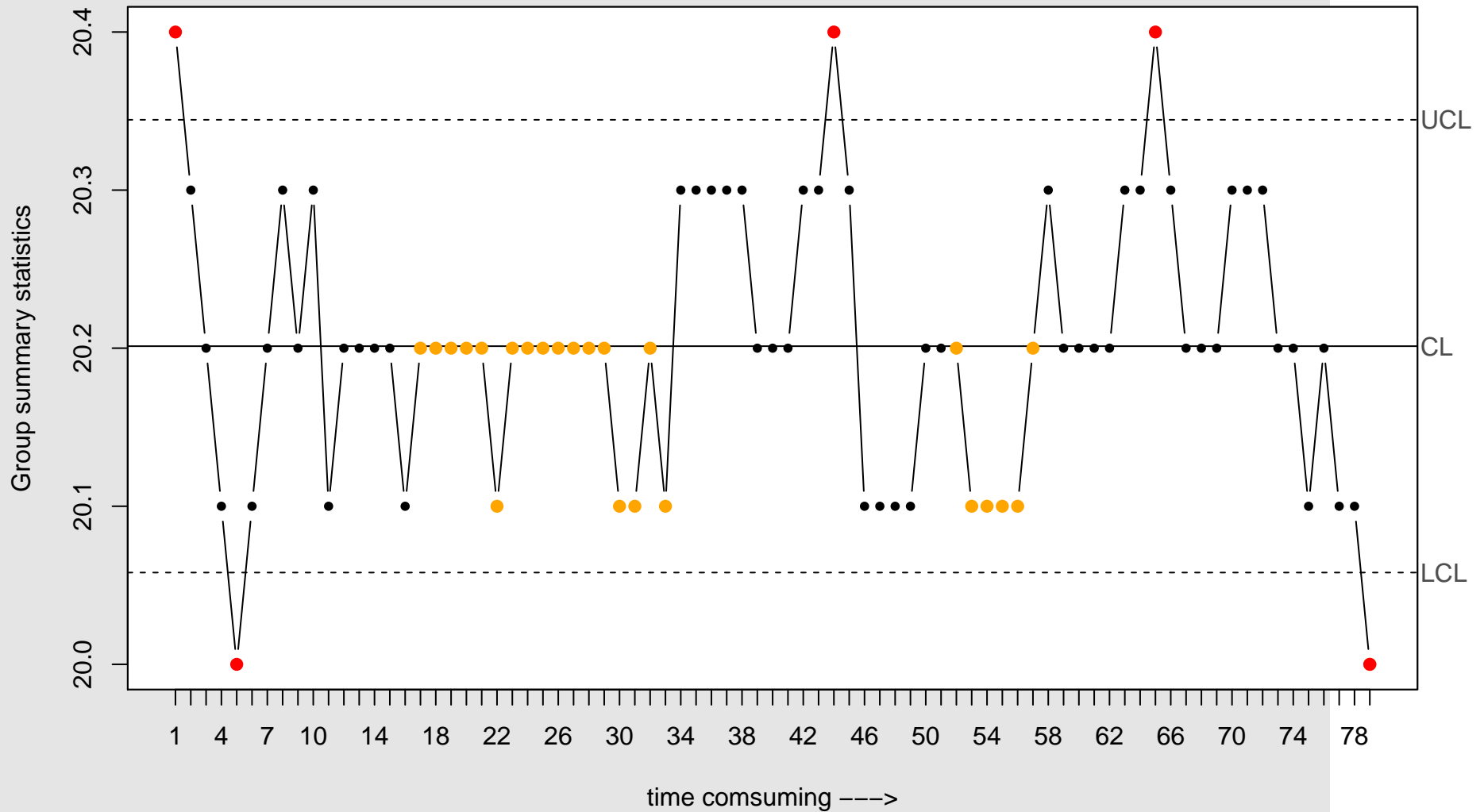


Number of groups = 79
Center = 20.22152
StdDev = 0.04091653

LCL = 20.09877
UCL = 20.34427

Number beyond limits = 3
Number violating runs = 11

153th column point of this product

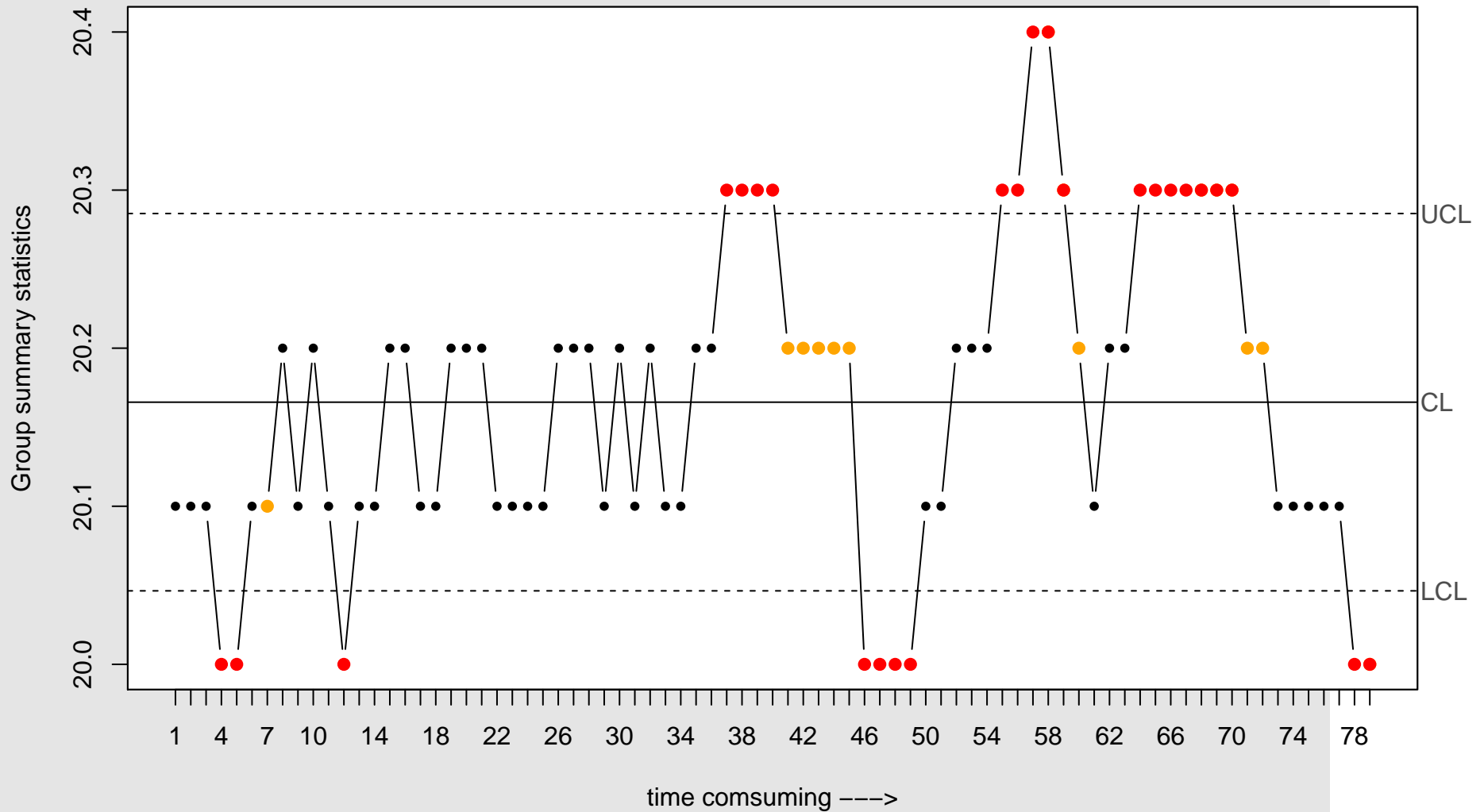


Number of groups = 79
Center = 20.20127
StdDev = 0.04773595

LCL = 20.05806
UCL = 20.34447

Number beyond limits = 5
Number violating runs = 24

154th column point of this product

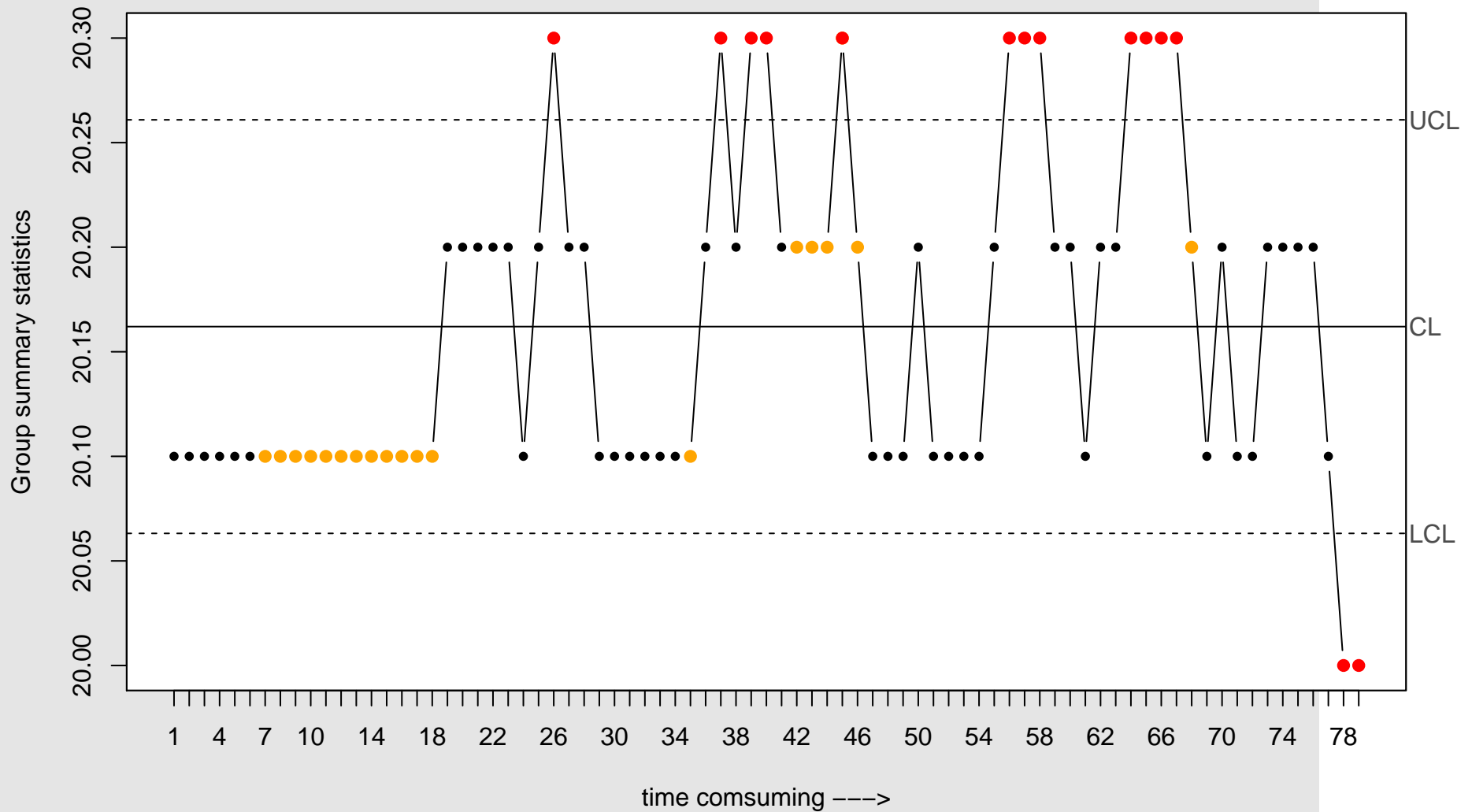


Number of groups = 79
 Center = 20.16582
 StdDev = 0.03977996

LCL = 20.04648
 UCL = 20.28516

Number beyond limits = 25
 Number violating runs = 15

155th column point of this product

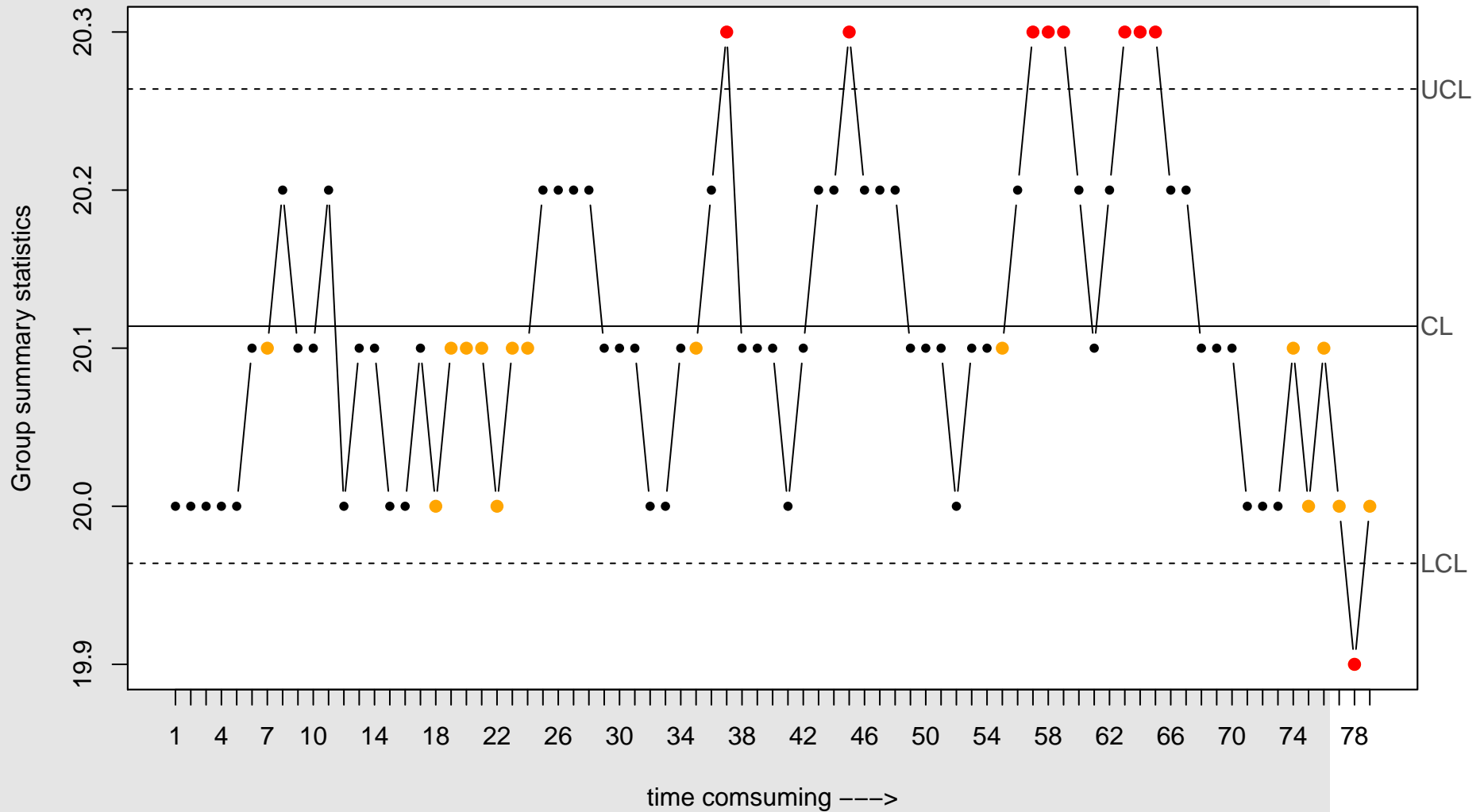


Number of groups = 79
 Center = 20.16203
 StdDev = 0.03296054

LCL = 20.06314
 UCL = 20.26091

Number beyond limits = 14
 Number violating runs = 19

156th column point of this product

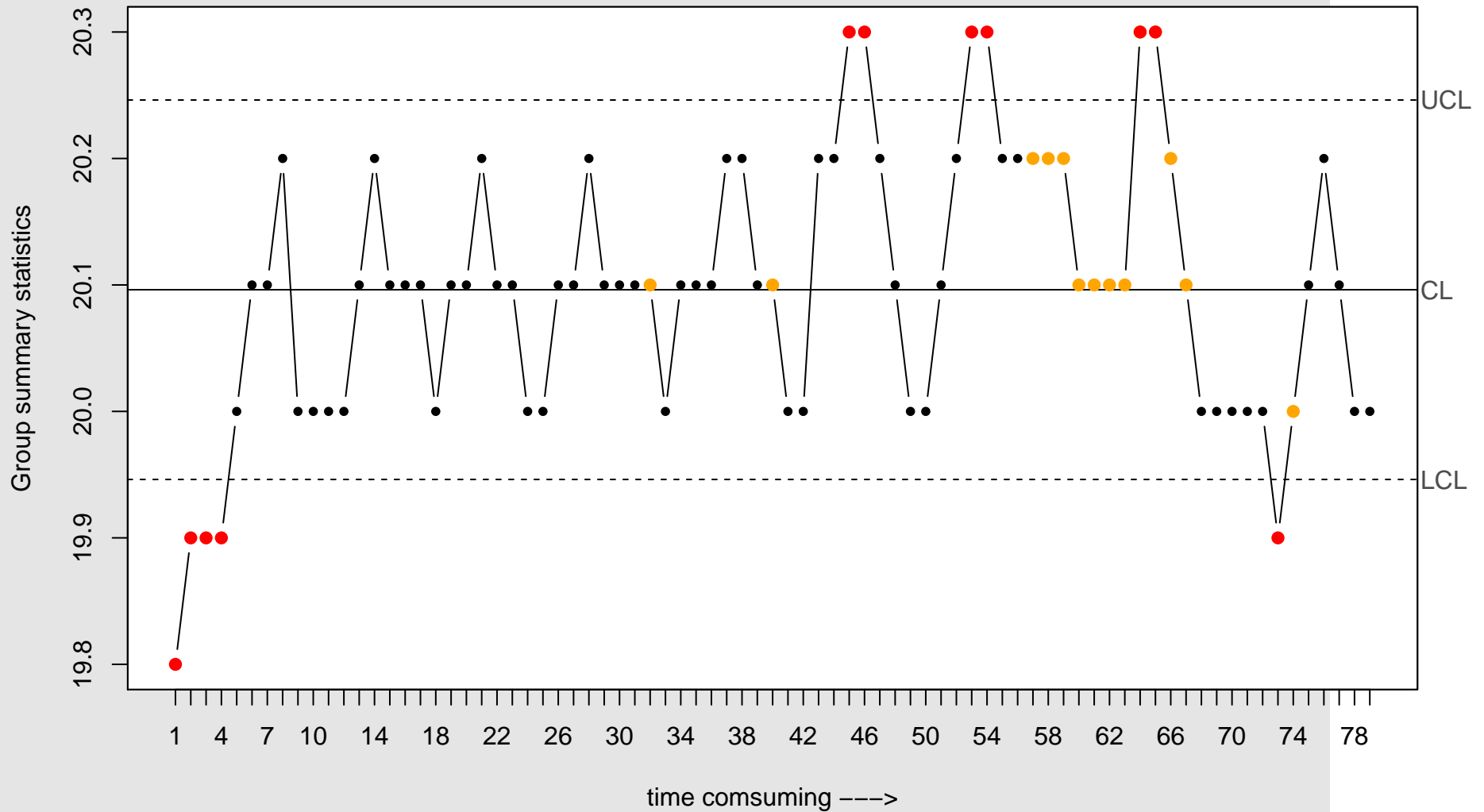


Number of groups = 79
Center = 20.11392
StdDev = 0.05000909

LCL = 19.9639
UCL = 20.26395

Number beyond limits = 9
Number violating runs = 16

157th column point of this product

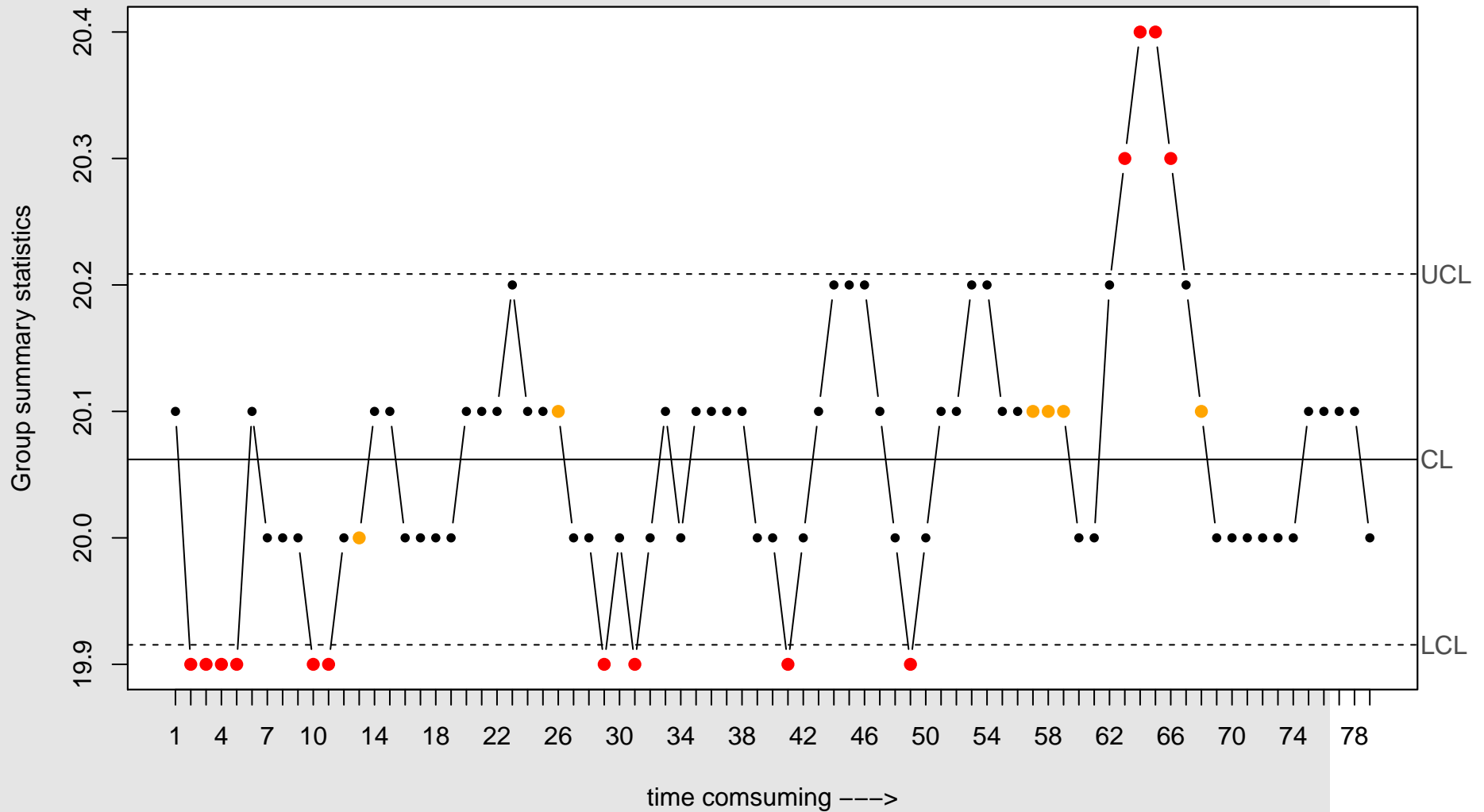


Number of groups = 79
Center = 20.0962
StdDev = 0.05000909

LCL = 19.94618
UCL = 20.24623

Number beyond limits = 11
Number violating runs = 14

158th column point of this product

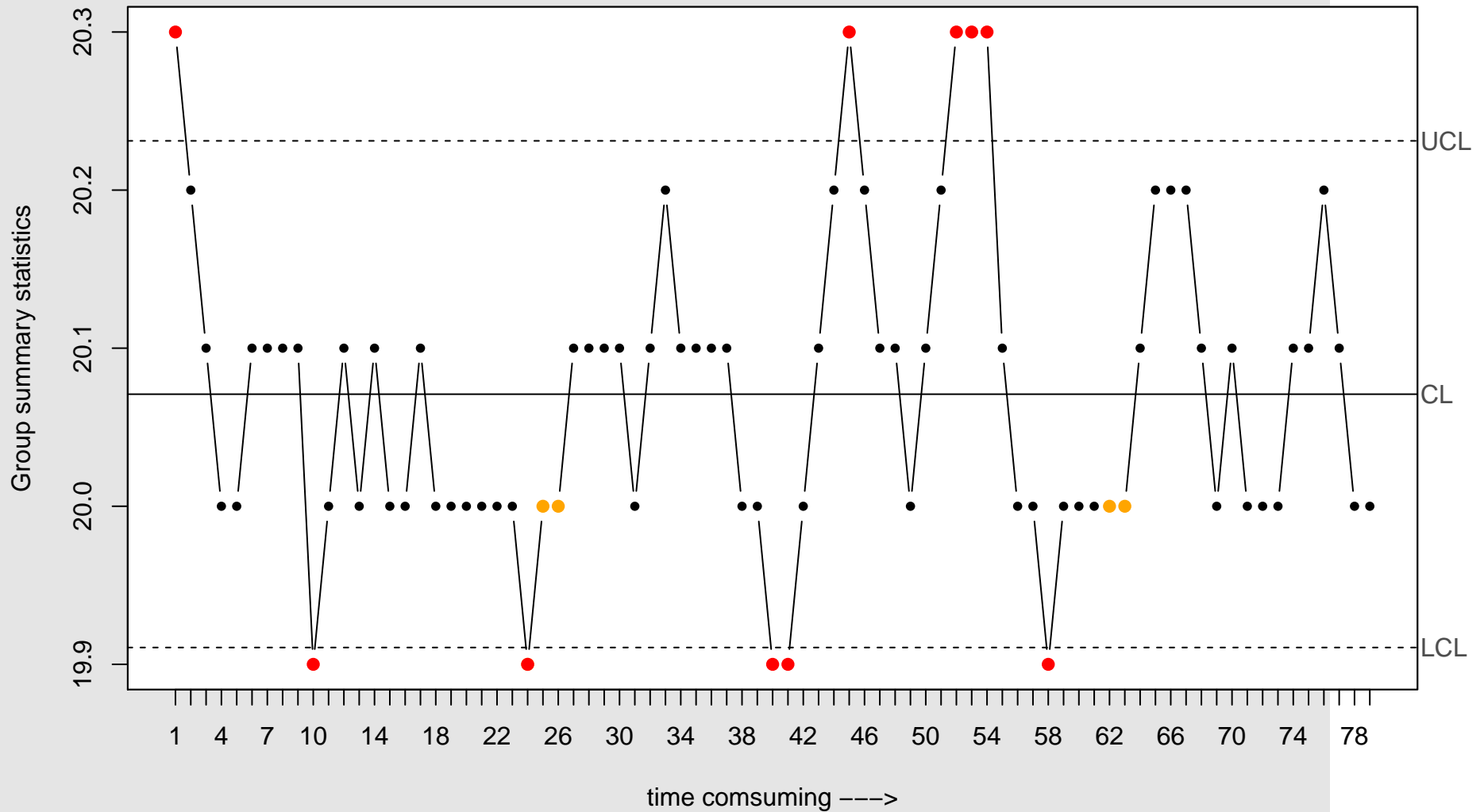


Number of groups = 79
 Center = 20.06203
 StdDev = 0.04887252

LCL = 19.91541
 UCL = 20.20864

Number beyond limits = 14
 Number violating runs = 6

159th column point of this product

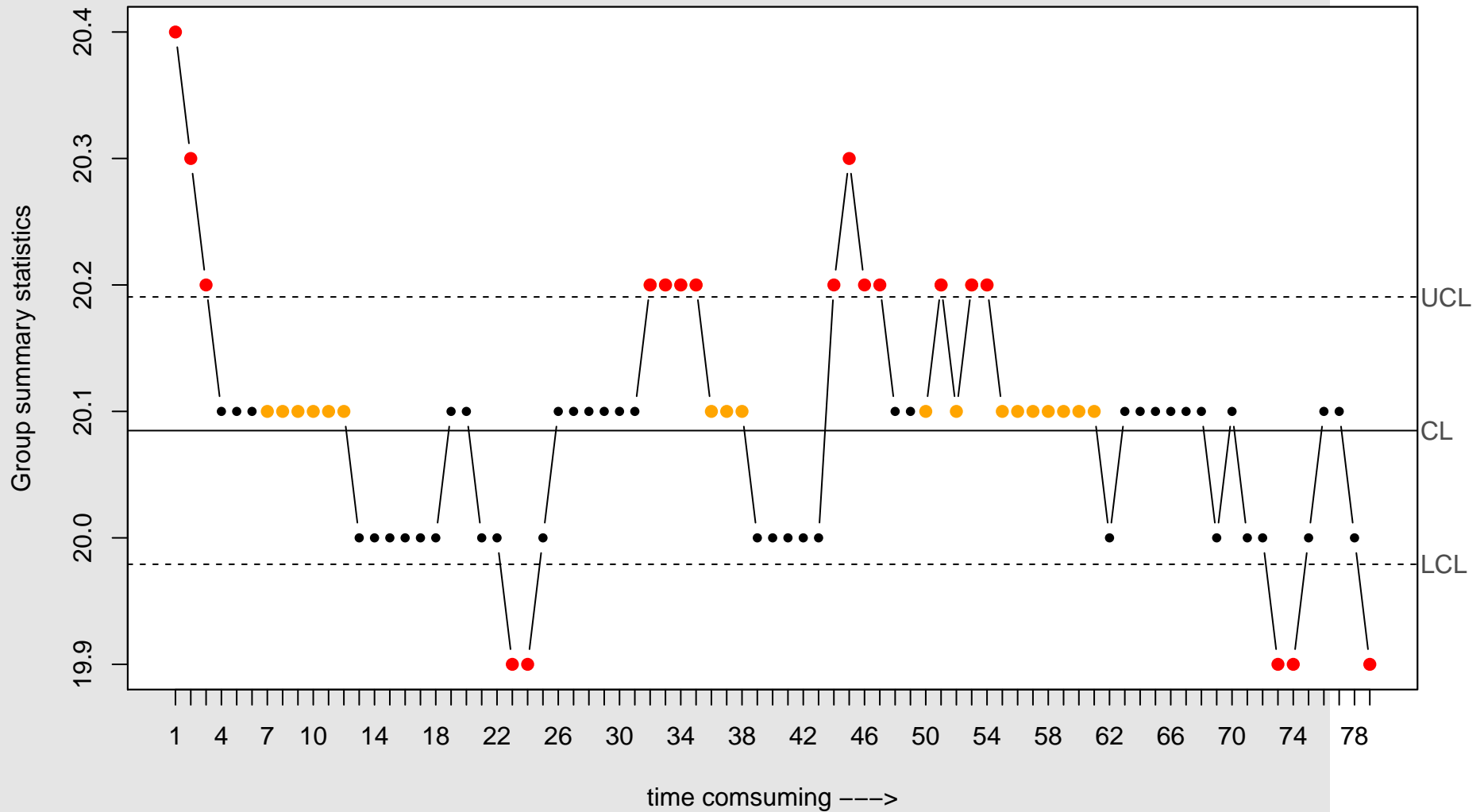


Number of groups = 79
Center = 20.07089
StdDev = 0.0534188

LCL = 19.91063
UCL = 20.23114

Number beyond limits = 10
Number violating runs = 5

160th column point of this product

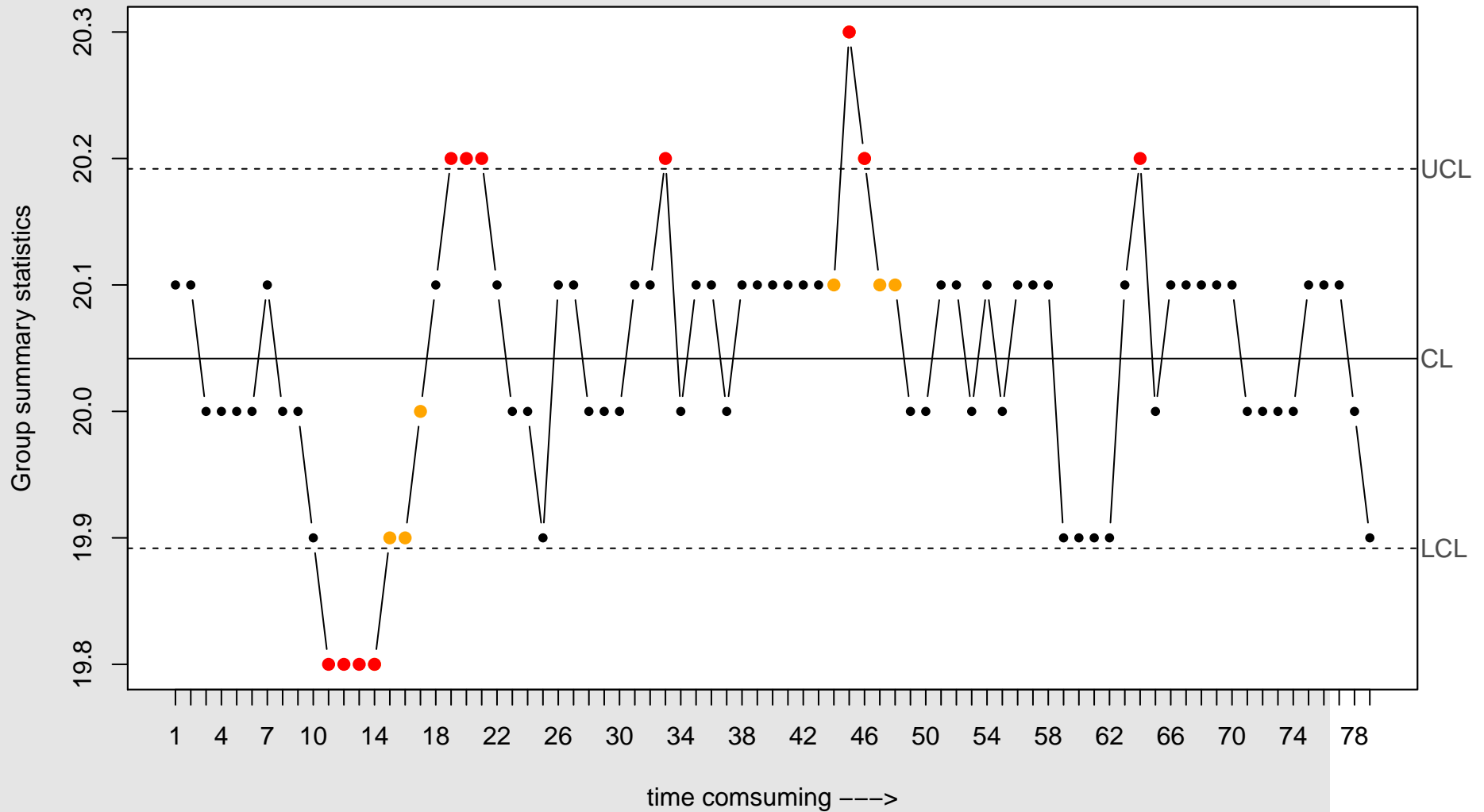


Number of groups = 79
 Center = 20.08481
 StdDev = 0.03523368

LCL = 19.97911
 UCL = 20.19051

Number beyond limits = 19
 Number violating runs = 25

161th column point of this product

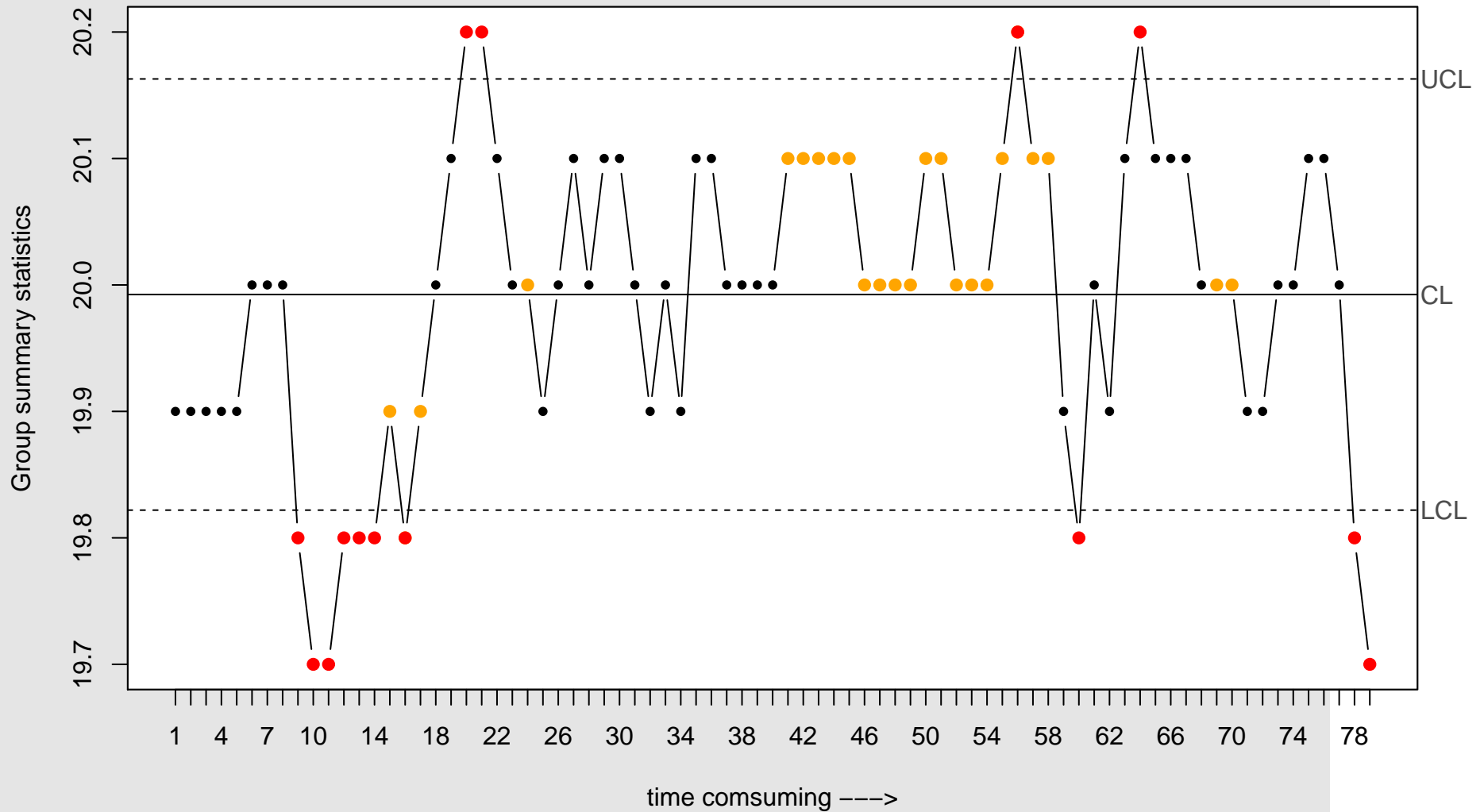


Number of groups = 79
Center = 20.04177
StdDev = 0.05000909

LCL = 19.89174
UCL = 20.1918

Number beyond limits = 11
Number violating runs = 9

162th column point of this product

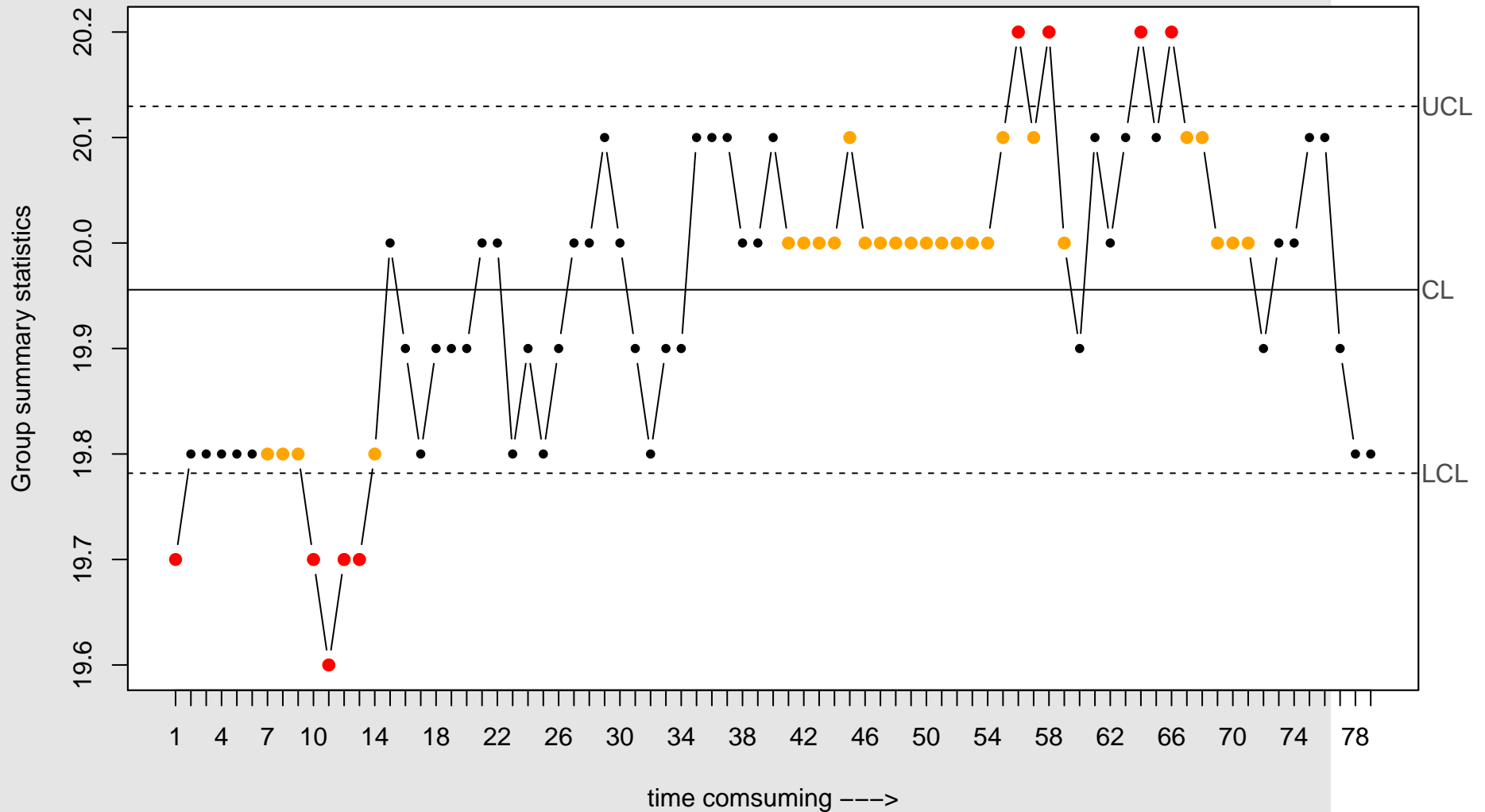


Number of groups = 79
Center = 19.99241
StdDev = 0.05682851

LCL = 19.82192
UCL = 20.16289

Number beyond limits = 14
Number violating runs = 24

163th column point of this product

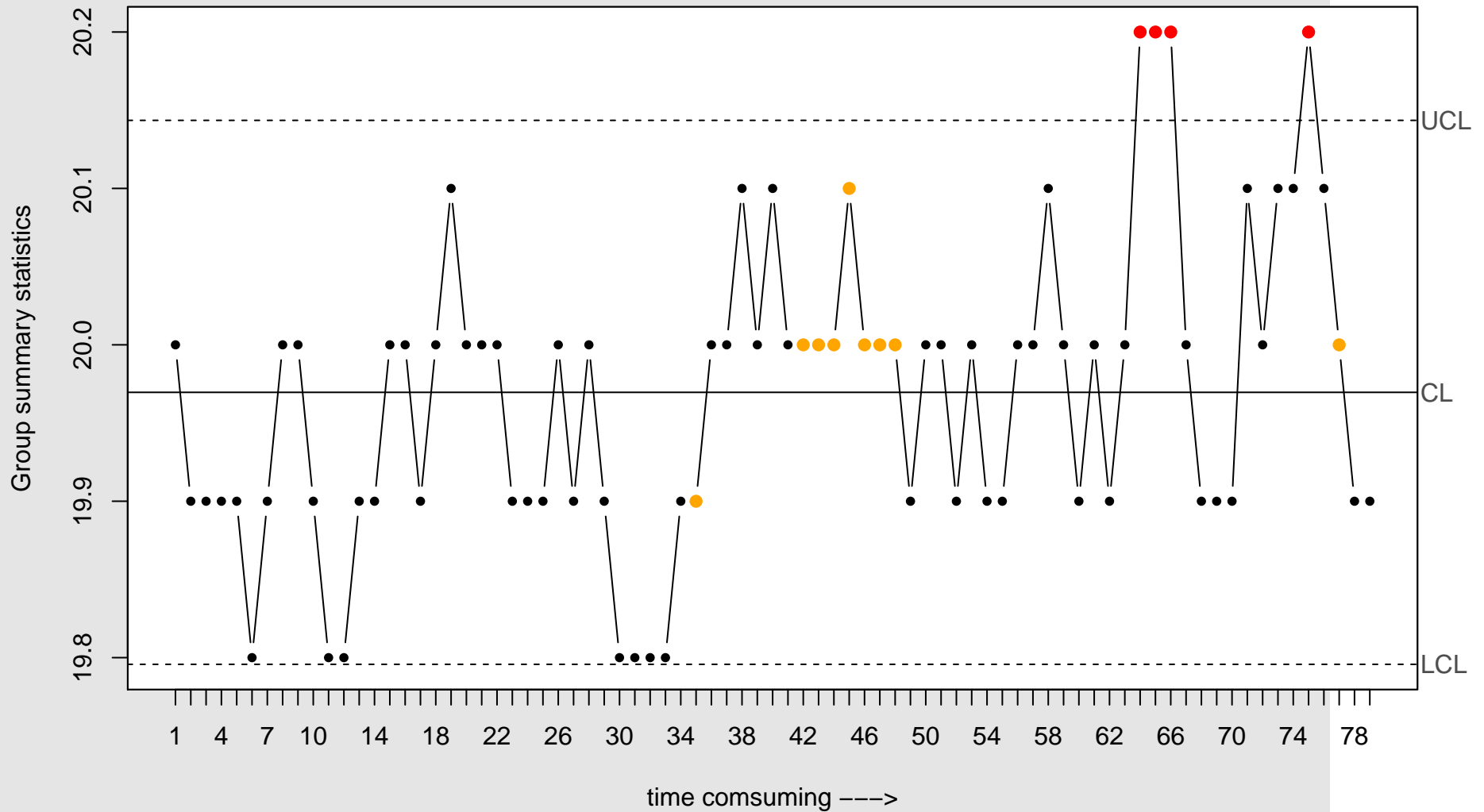


Number of groups = 79
 Center = 19.9557
 StdDev = 0.05796508

LCL = 19.7818
 UCL = 20.12959

Number beyond limits = 9
 Number violating runs = 32

164th column point of this product

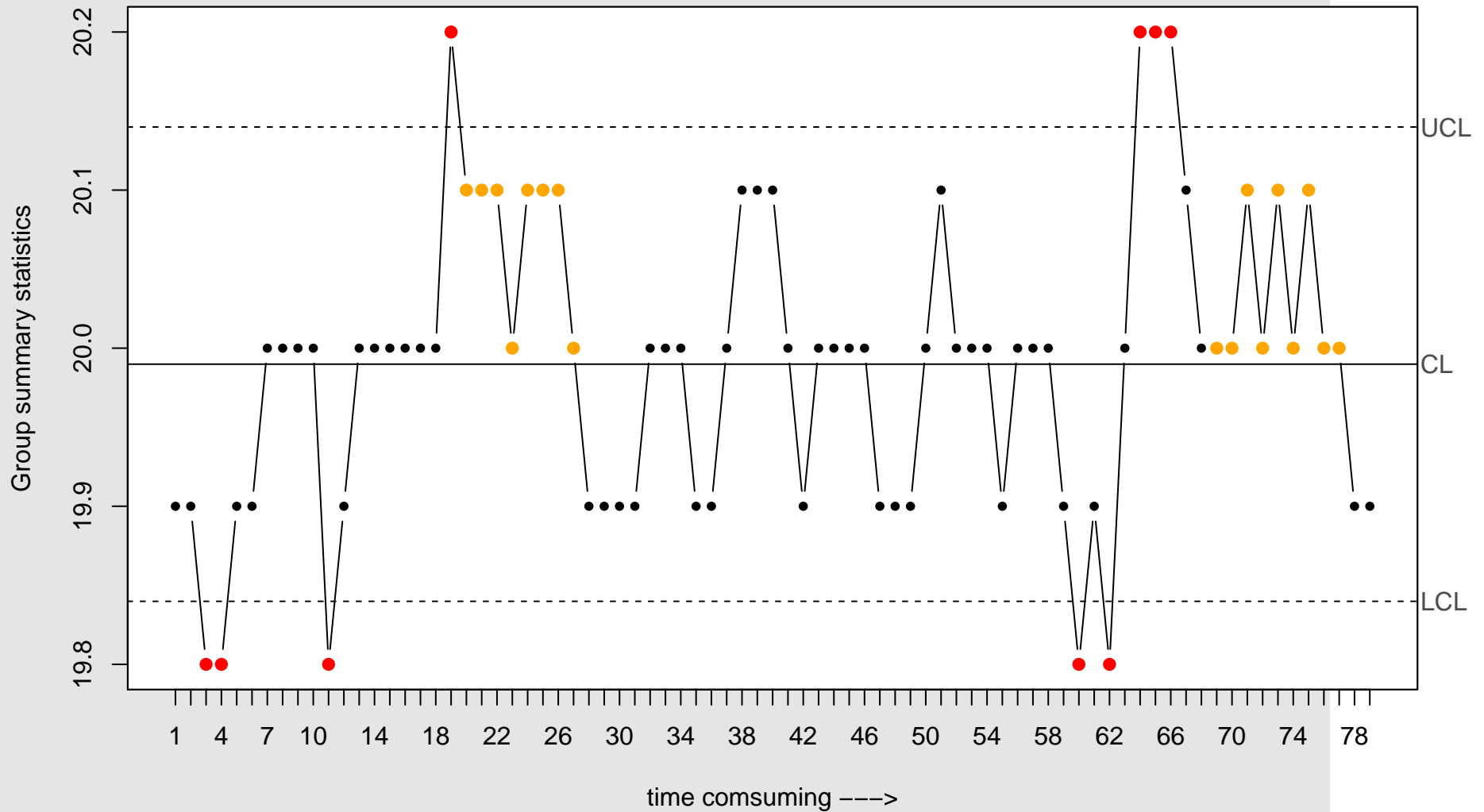


Number of groups = 79
Center = 19.96962
StdDev = 0.05796508

LCL = 19.79572
UCL = 20.14352

Number beyond limits = 4
Number violating runs = 9

165th column point of this product

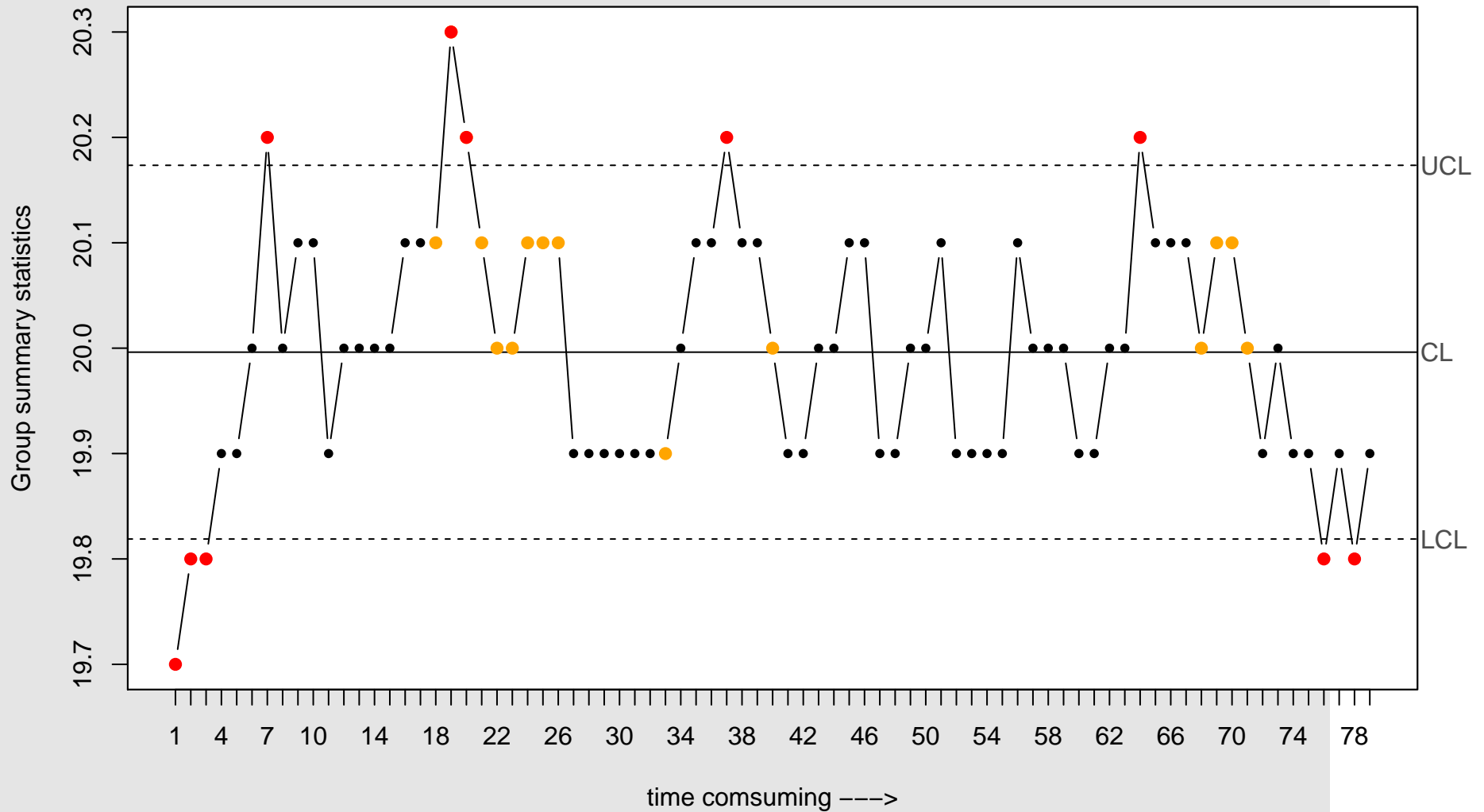


Number of groups = 79
Center = 19.98987
StdDev = 0.05000909

LCL = 19.83985
UCL = 20.1399

Number beyond limits = 9
Number violating runs = 18

166th column point of this product

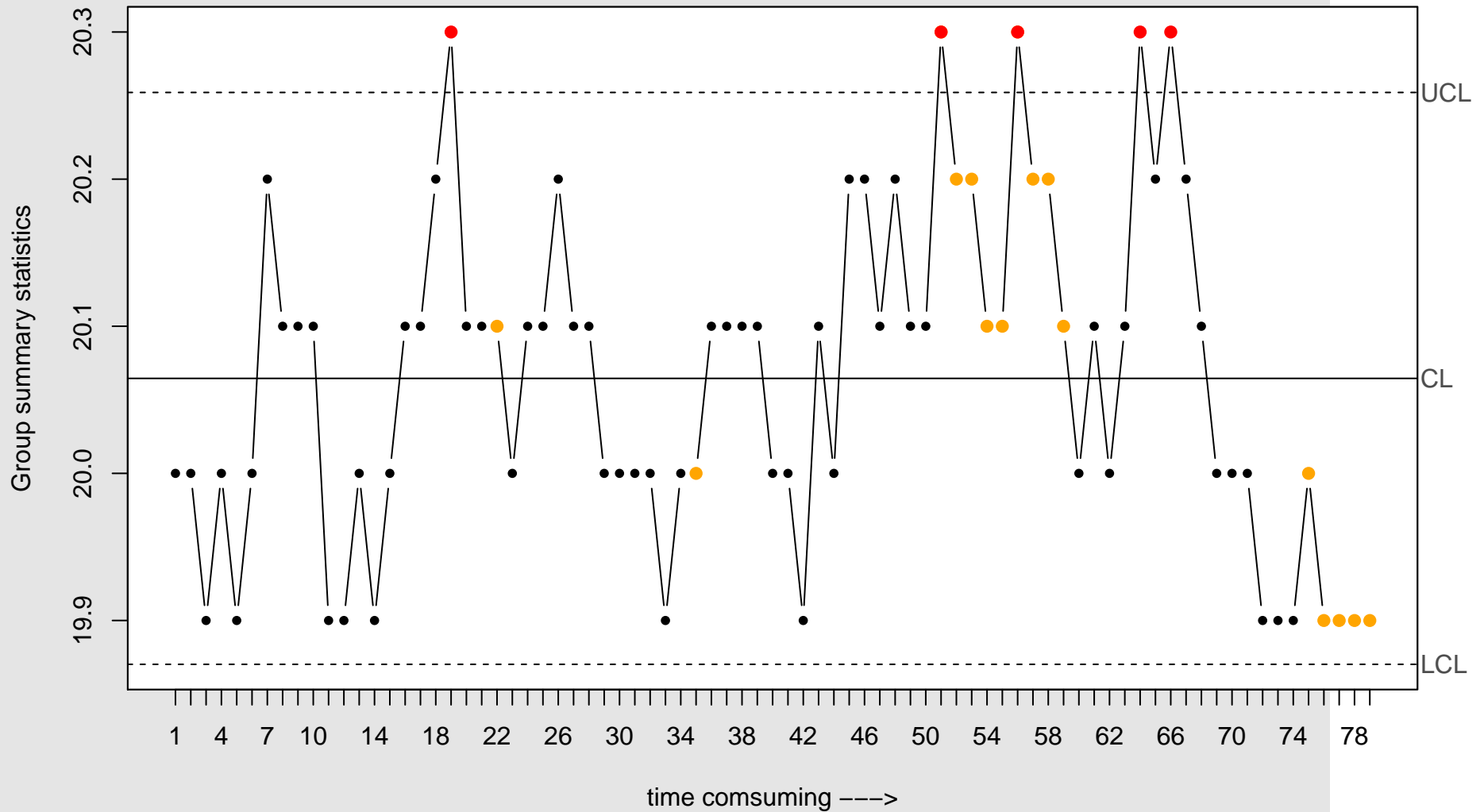


Number of groups = 79
 Center = 19.9962
 StdDev = 0.05910165

LCL = 19.8189
 UCL = 20.17351

Number beyond limits = 10
 Number violating runs = 15

167th column point of this product

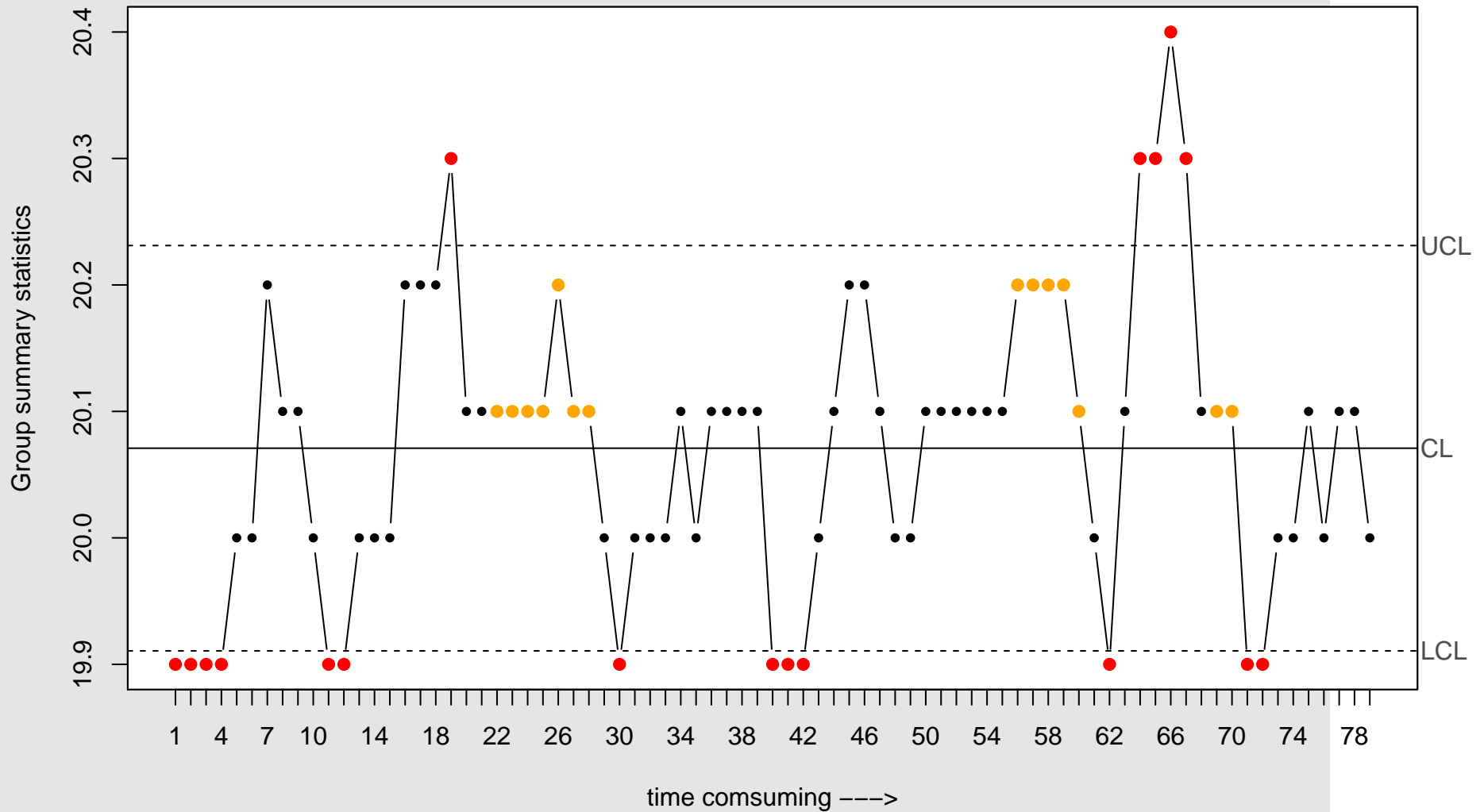


Number of groups = 79
 Center = 20.06456
 StdDev = 0.06478451

LCL = 19.8702
 UCL = 20.25891

Number beyond limits = 5
 Number violating runs = 16

168th column point of this product

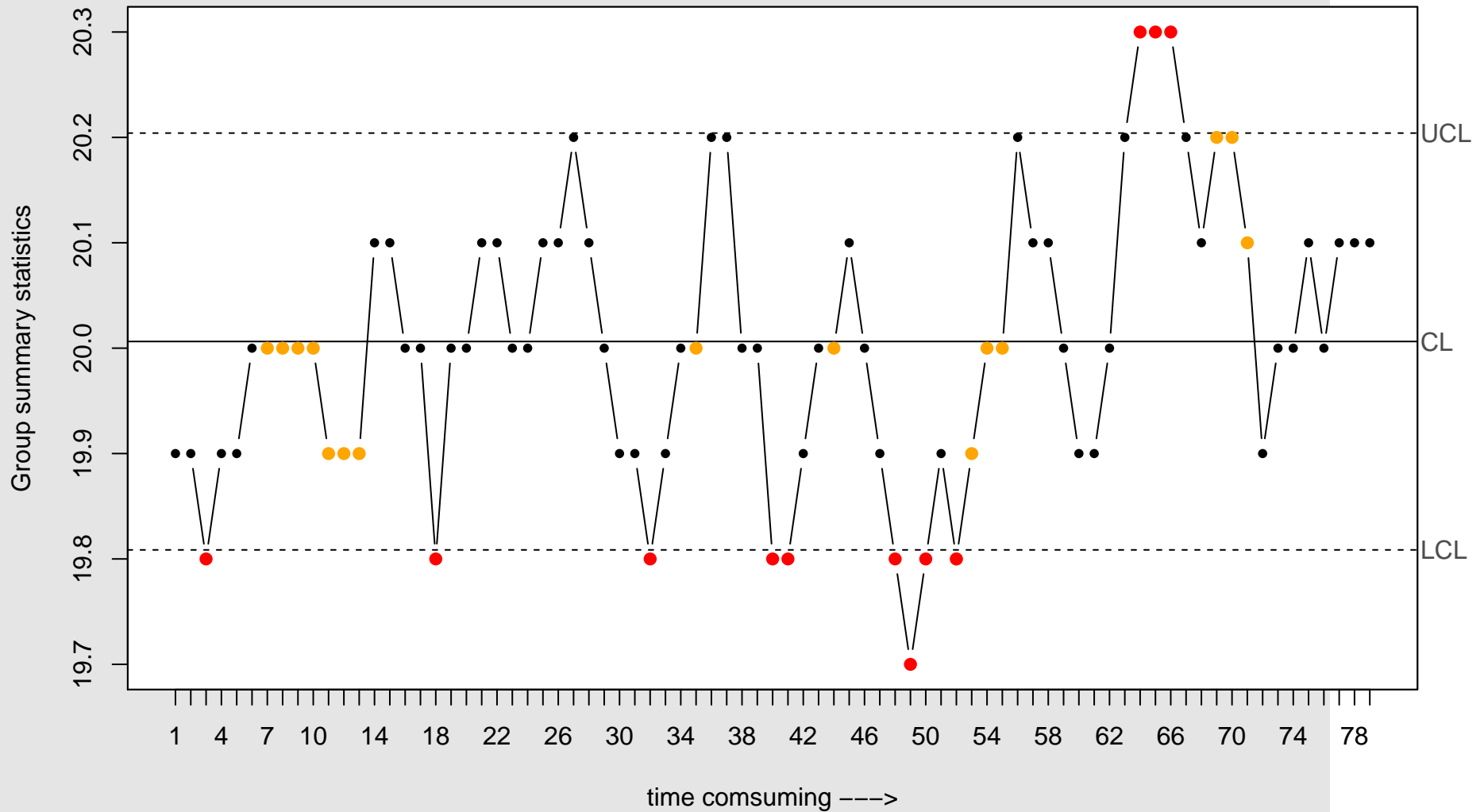


Number of groups = 79
Center = 20.07089
StdDev = 0.0534188

LCL = 19.91063
UCL = 20.23114

Number beyond limits = 18
Number violating runs = 14

169th column point of this product

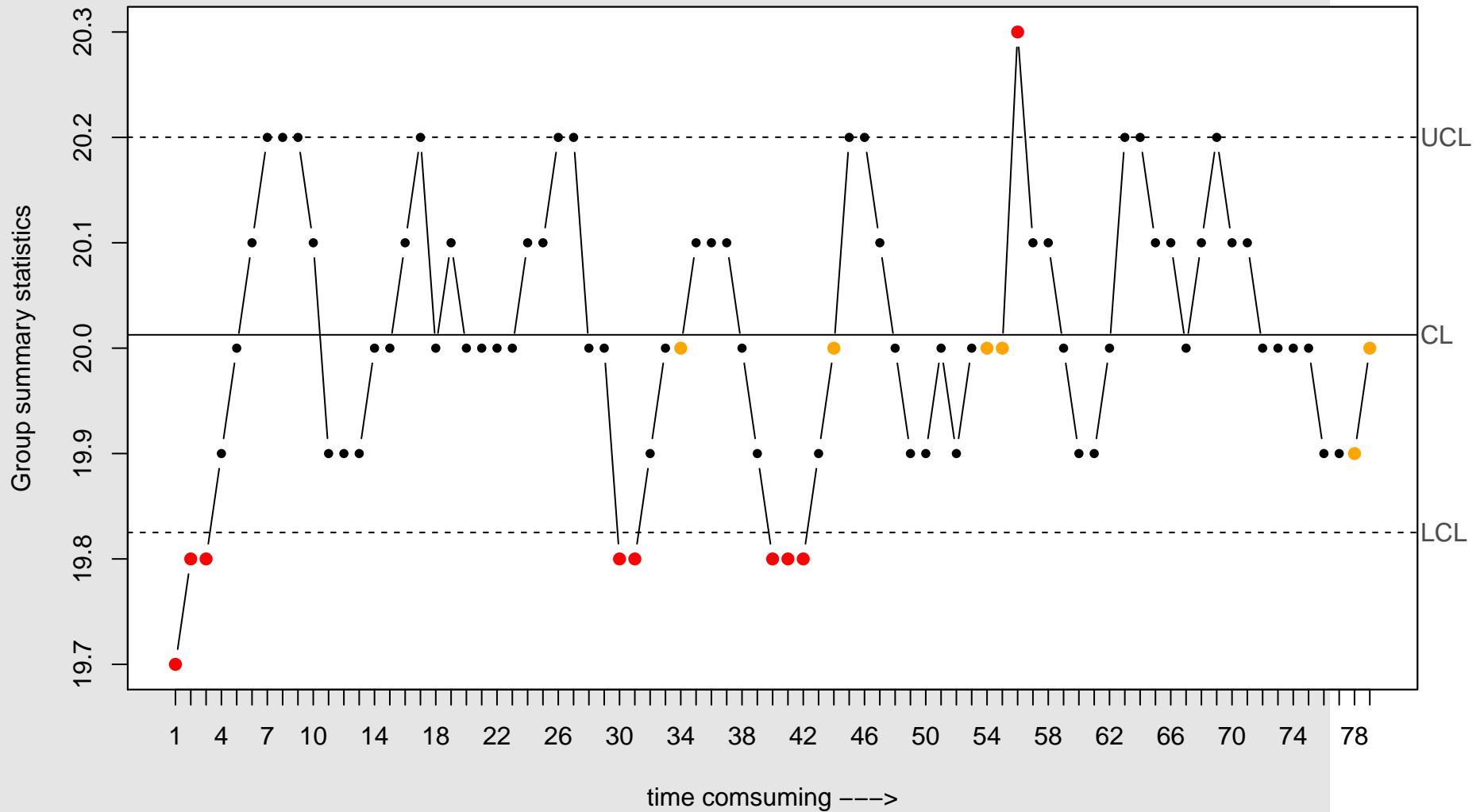


Number of groups = 79
Center = 20.00633
StdDev = 0.06592108

LCL = 19.80857
UCL = 20.20409

Number beyond limits = 12
Number violating runs = 16

170th column point of this product

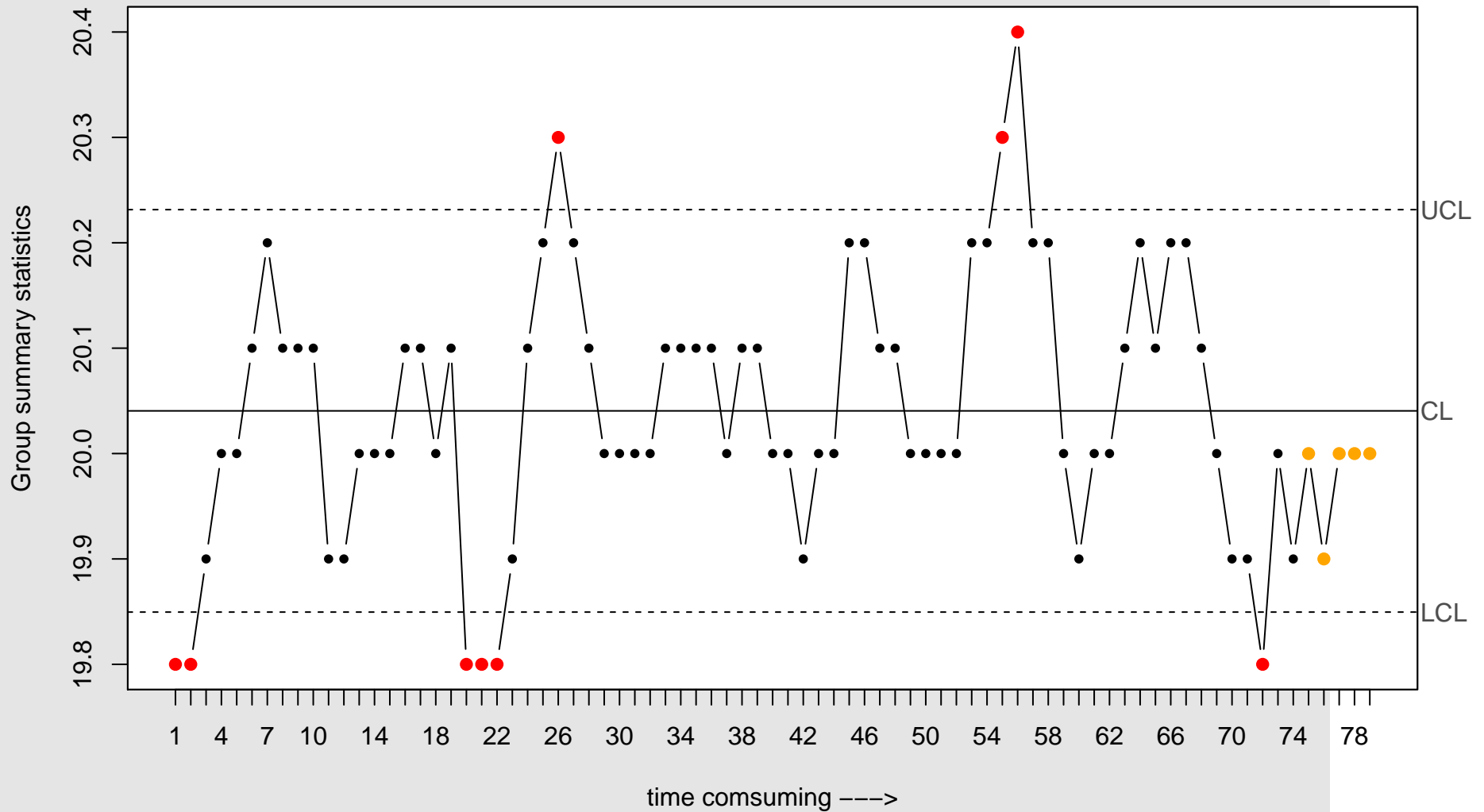


Number of groups = 79
 Center = 20.01266
 StdDev = 0.06251137

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

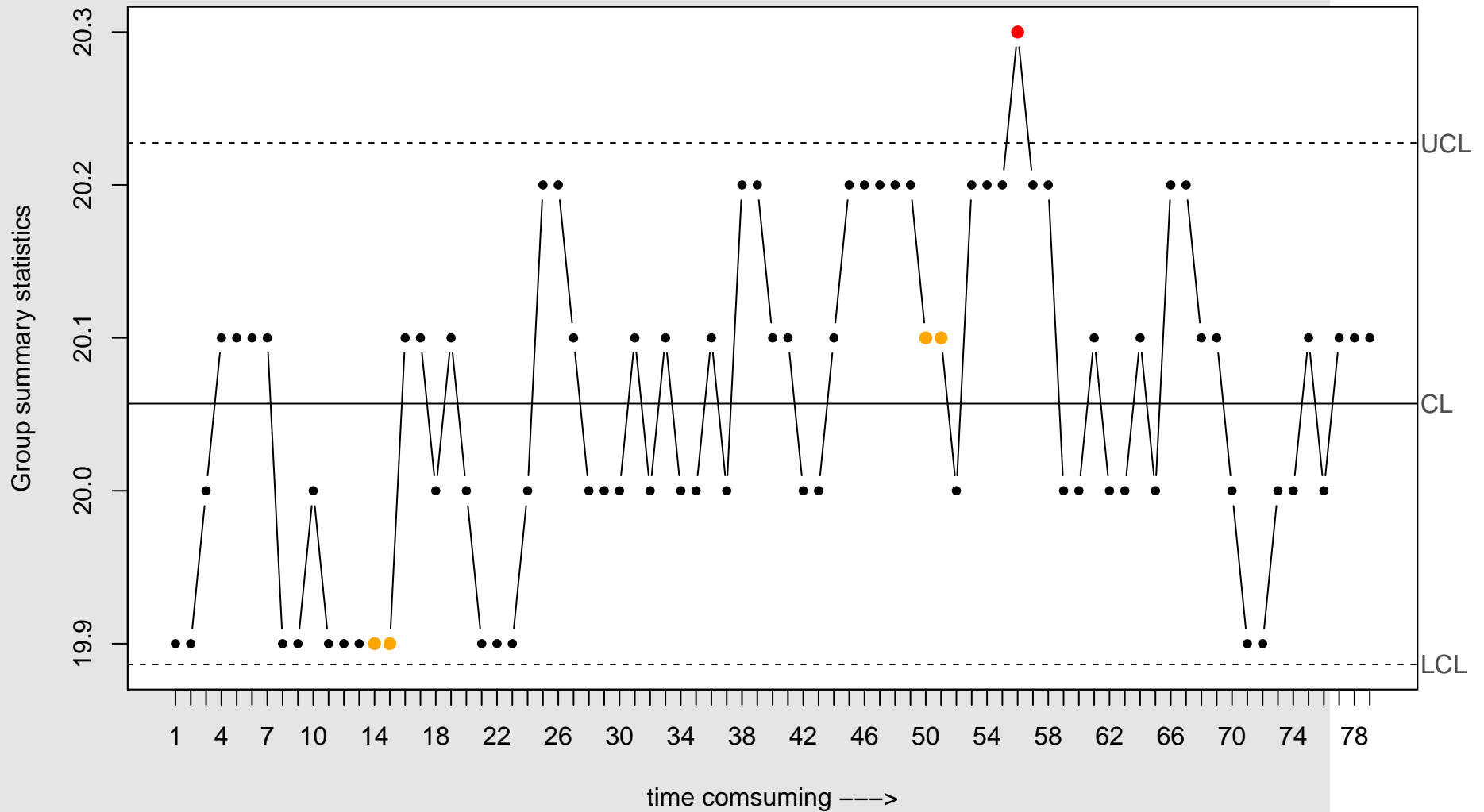
LCL = 19.84956

UCL = 20.23145

Number beyond limits = 9

Number violating runs = 5

172th column point of this product

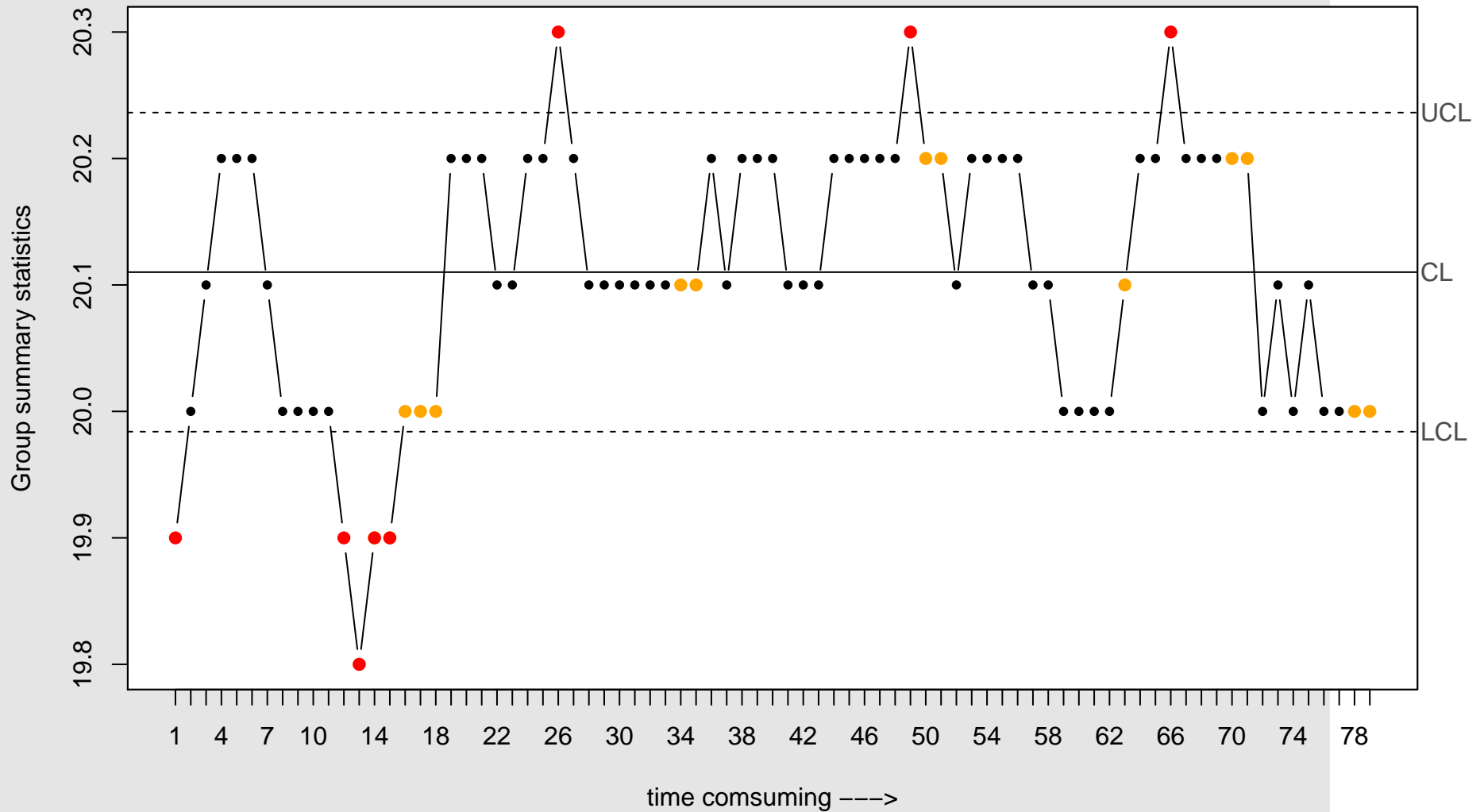


Number of groups = 79
Center = 20.05696
StdDev = 0.05682851

LCL = 19.88648
UCL = 20.22745

Number beyond limits = 1
Number violating runs = 4

173th column point of this product

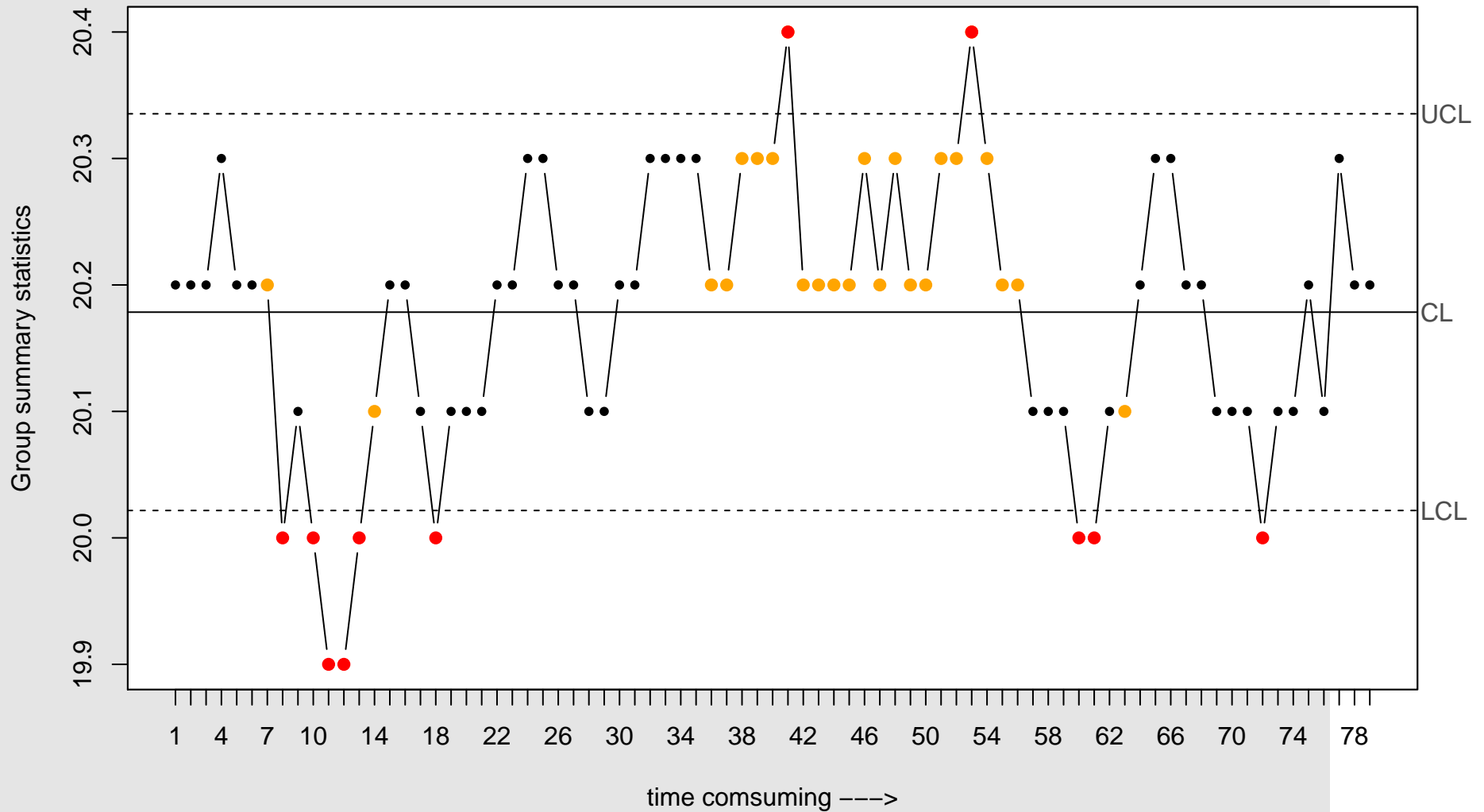


Number of groups = 79
 Center = 20.11013
 StdDev = 0.0420531

LCL = 19.98397
 UCL = 20.23629

Number beyond limits = 8
 Number violating runs = 15

174th column point of this product

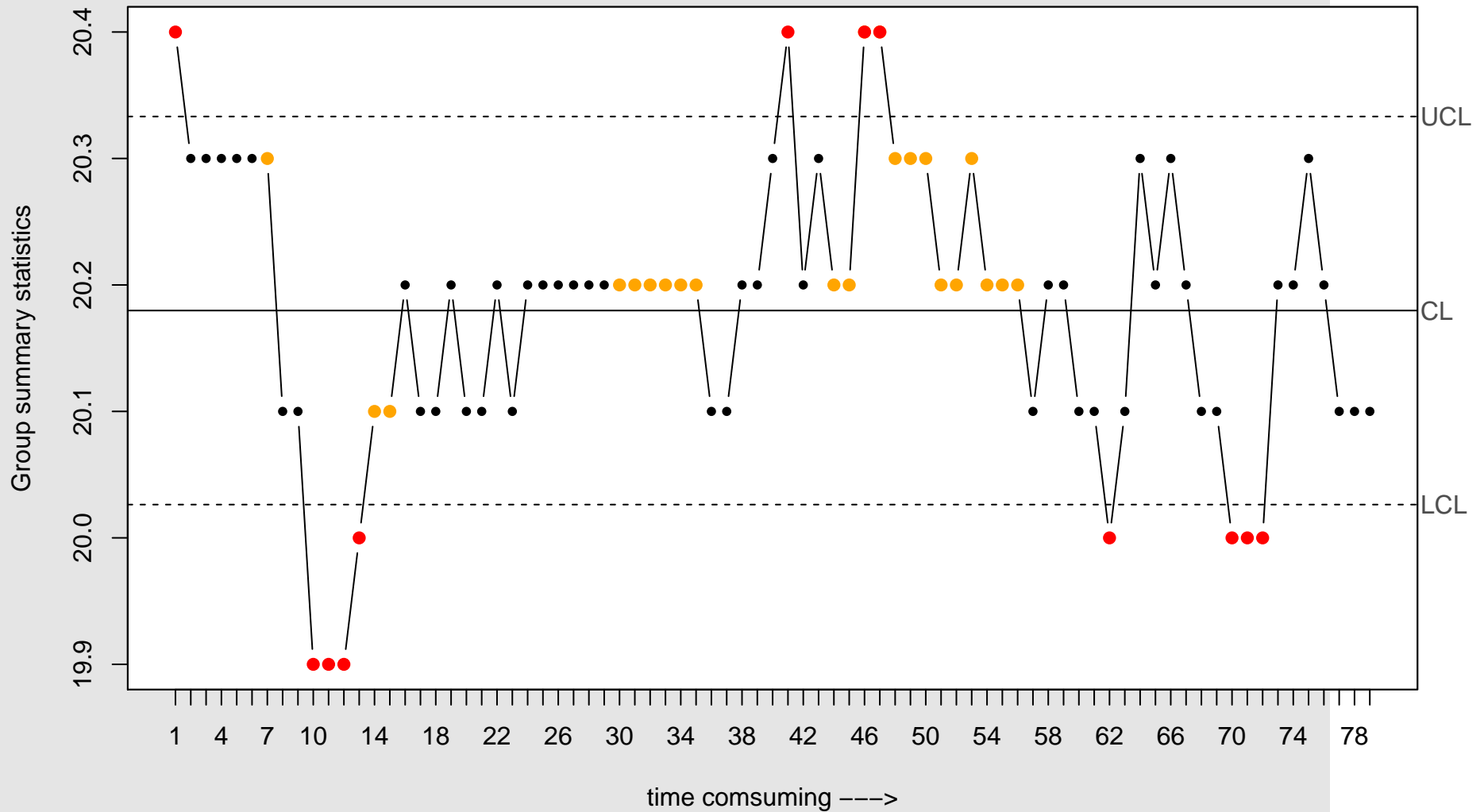


Number of groups = 79
 Center = 20.17848
 StdDev = 0.05228223

LCL = 20.02163
 UCL = 20.33533

Number beyond limits = 11
 Number violating runs = 24

175th column point of this product

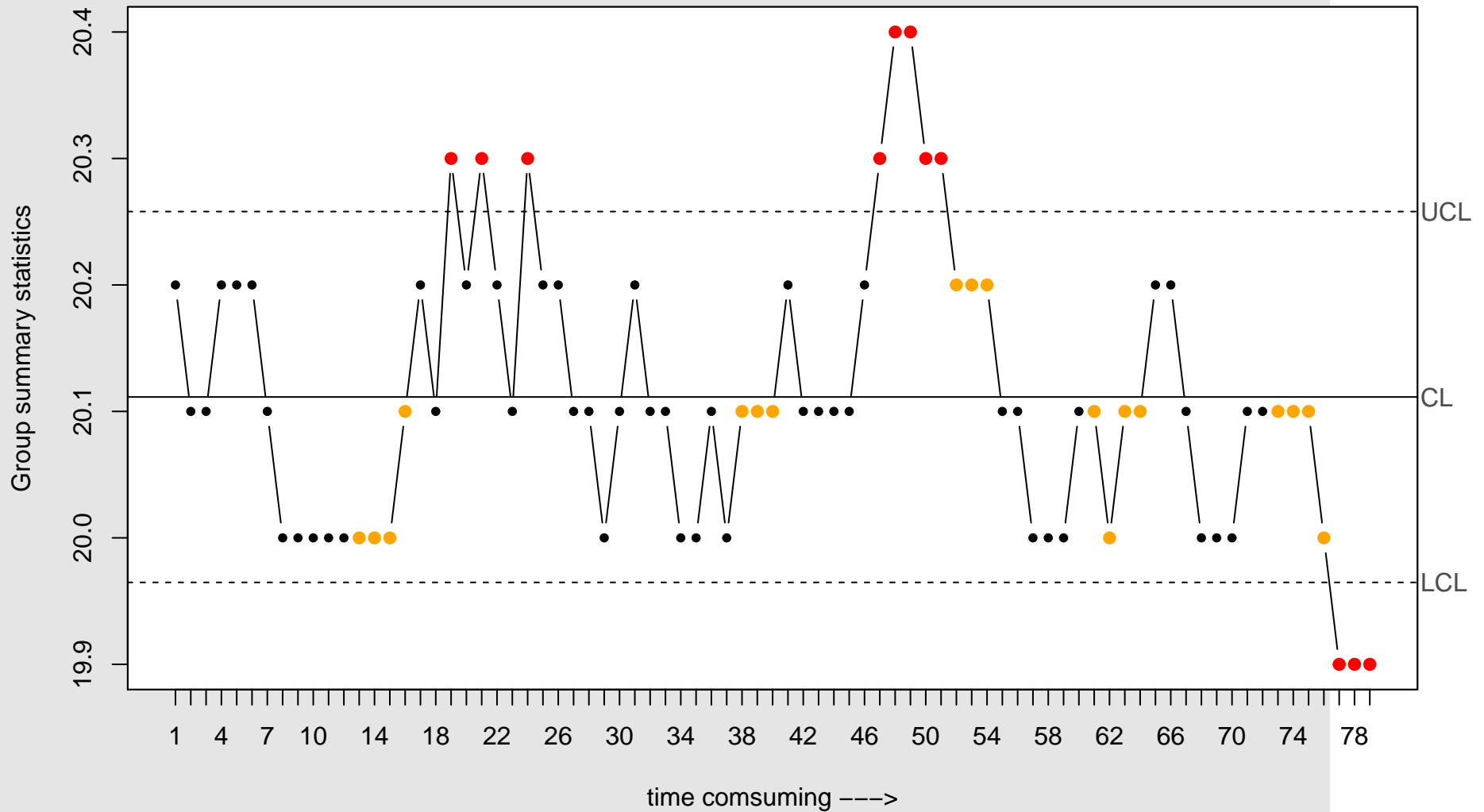


Number of groups = 79
 Center = 20.17975
 StdDev = 0.05114566

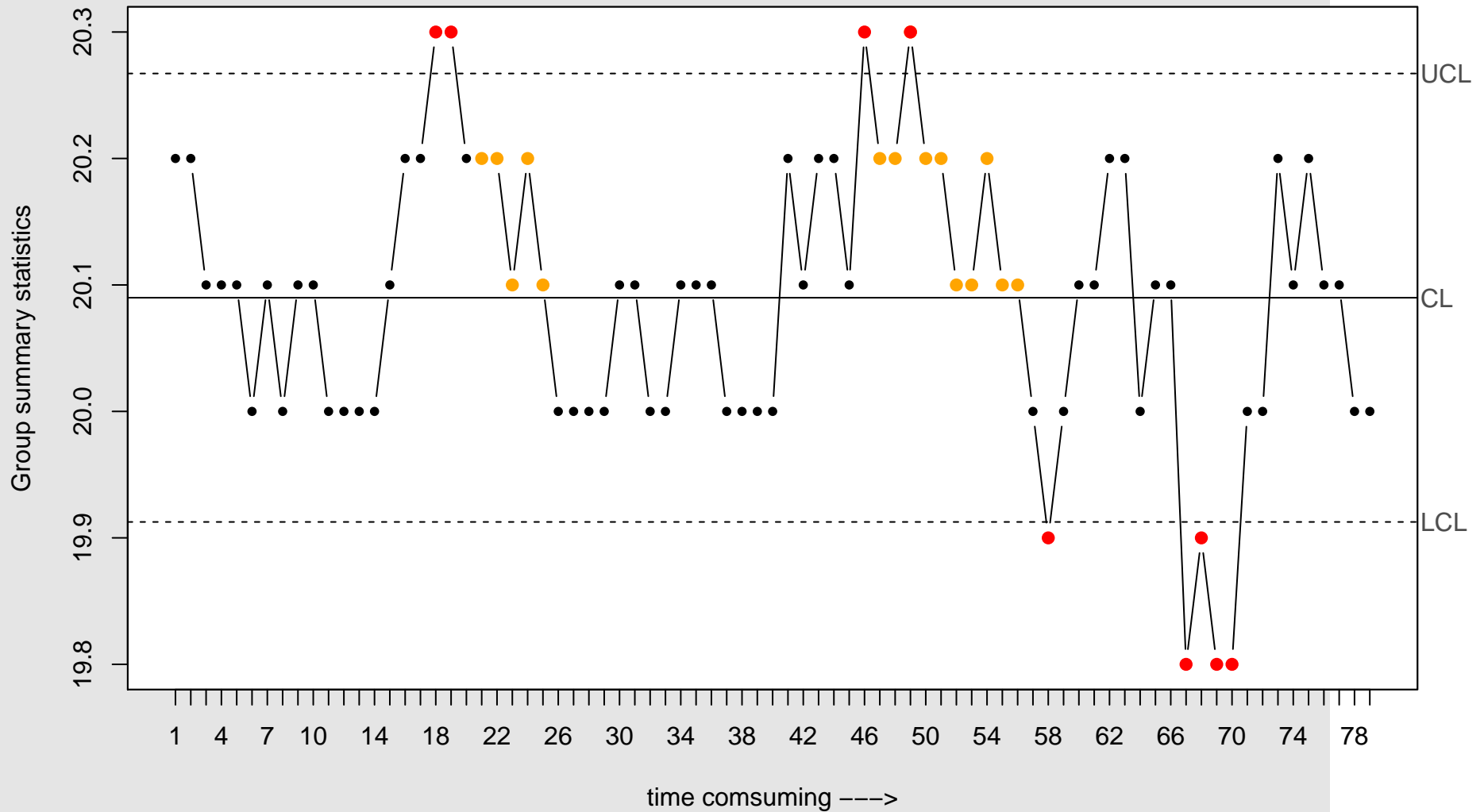
LCL = 20.02631
 UCL = 20.33318

Number beyond limits = 12
 Number violating runs = 22

176th column point of this product



177th column point of this product

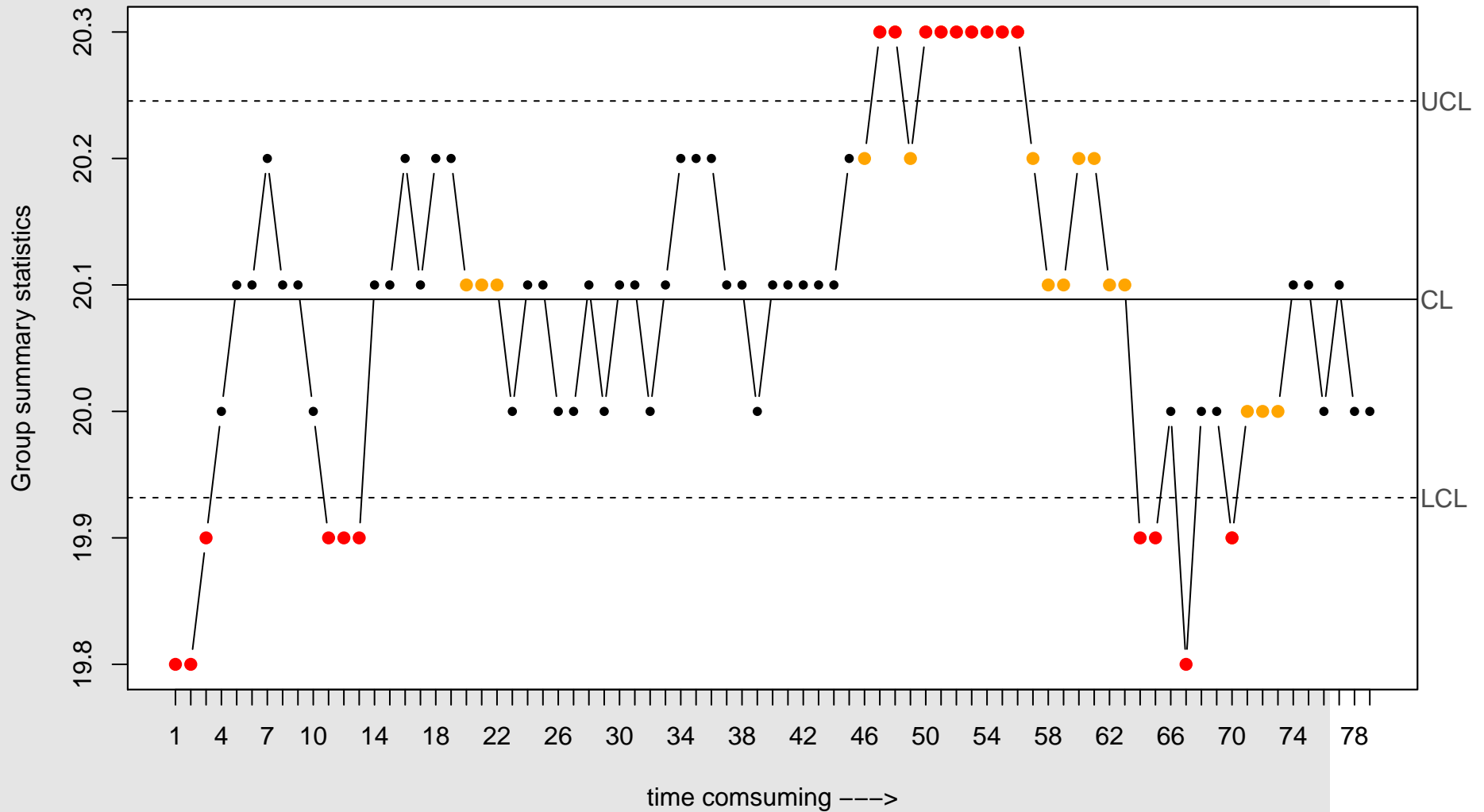


Number of groups = 79
 Center = 20.08987
 StdDev = 0.05910165

LCL = 19.91257
 UCL = 20.26718

Number beyond limits = 9
 Number violating runs = 15

178th column point of this product

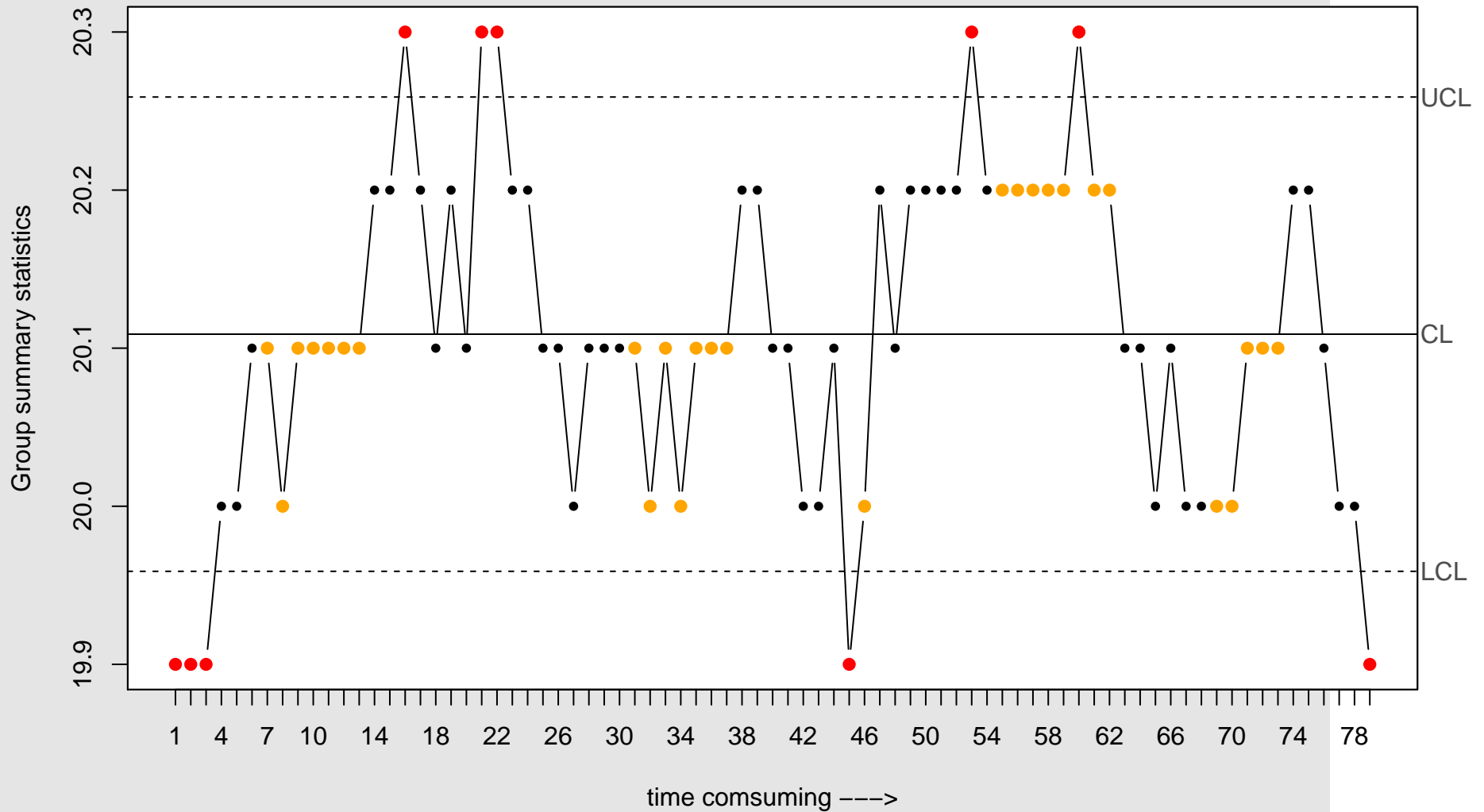


Number of groups = 79
 Center = 20.08861
 StdDev = 0.05228223

LCL = 19.93176
 UCL = 20.24545

Number beyond limits = 19
 Number violating runs = 25

179th column point of this product

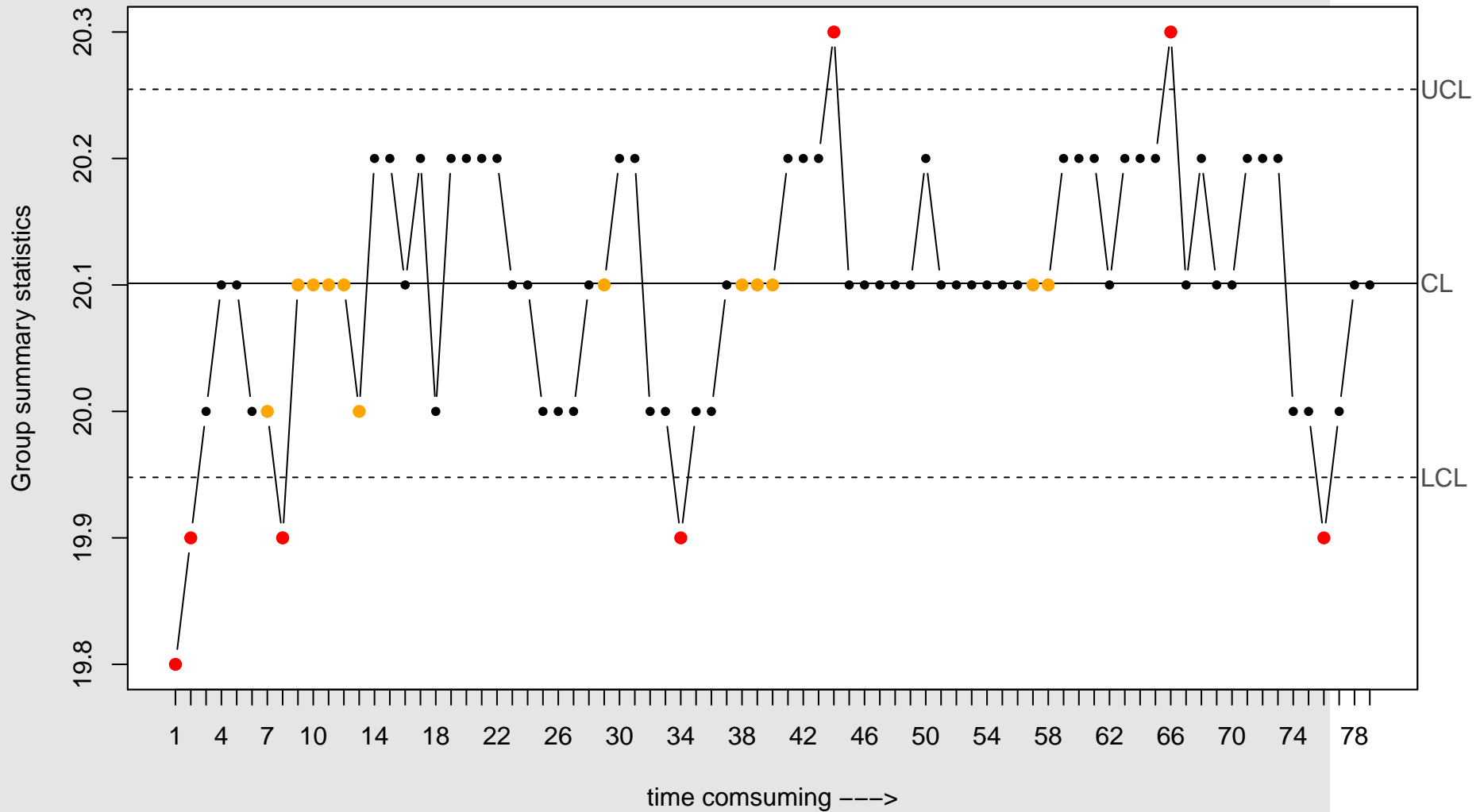


Number of groups = 79
Center = 20.10886
StdDev = 0.05000909

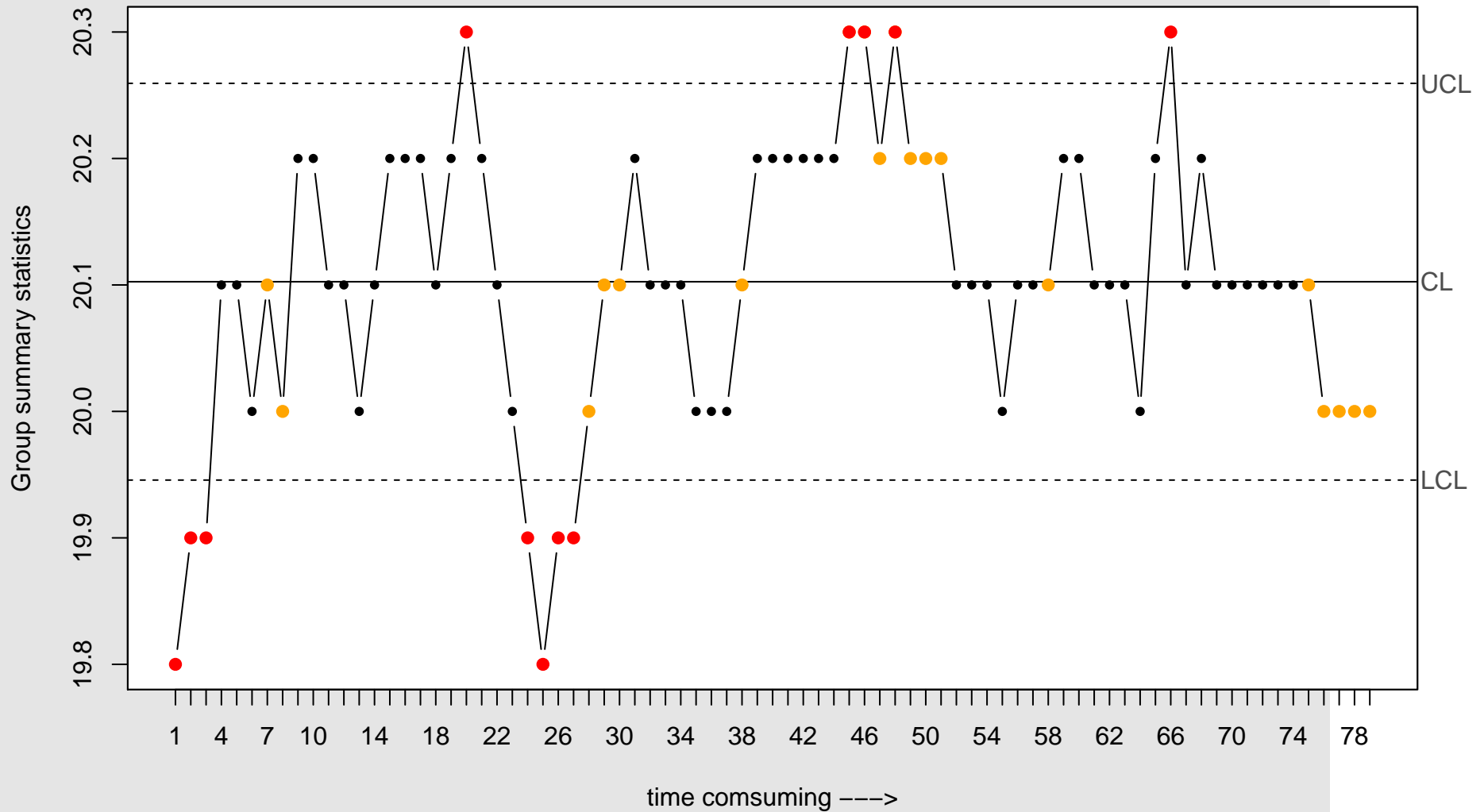
LCL = 19.95883
UCL = 20.25889

Number beyond limits = 10
Number violating runs = 28

180th column point of this product



181th column point of this product



Number of groups = 79

Center = 20.10253

StdDev = 0.05228223

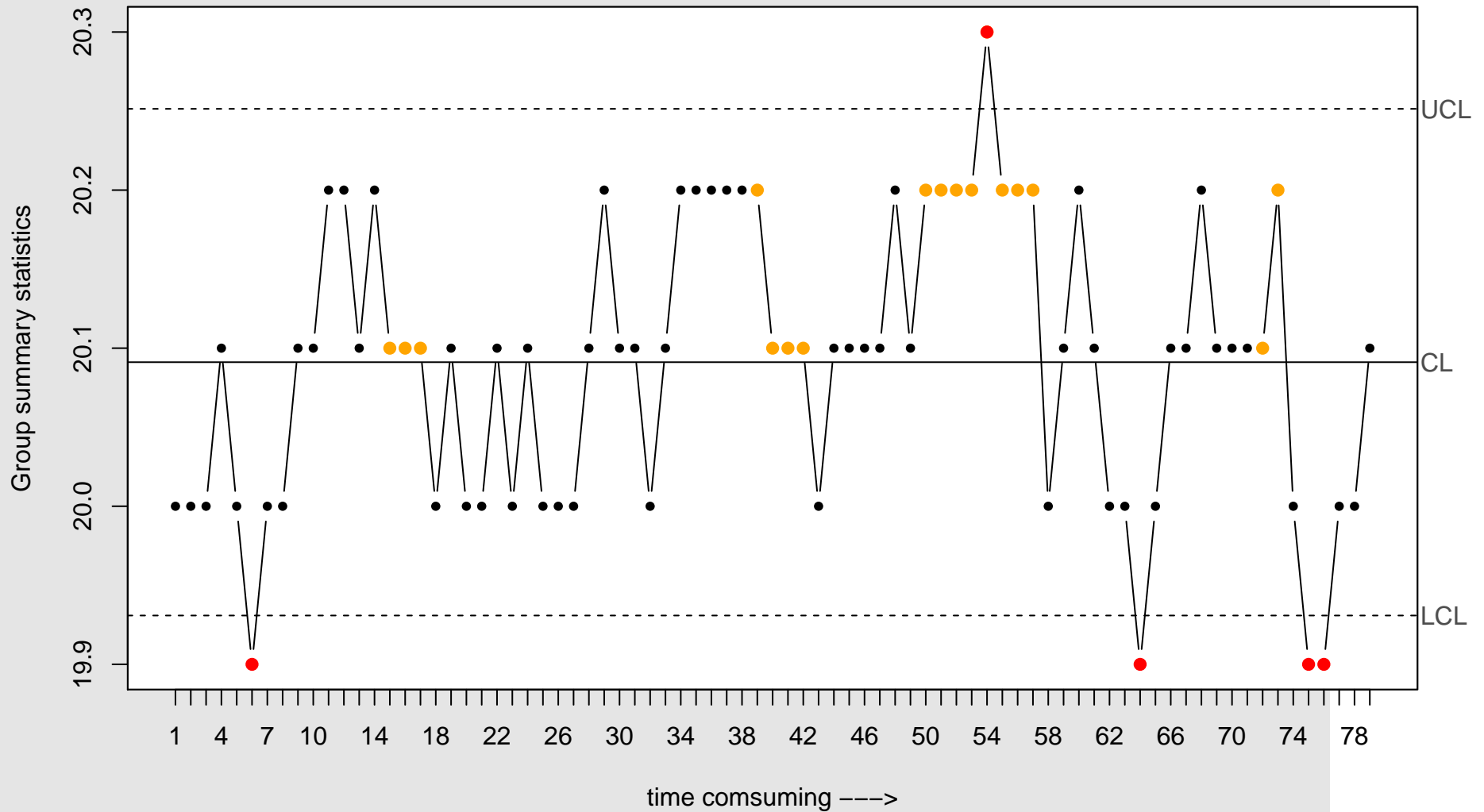
LCL = 19.94568

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

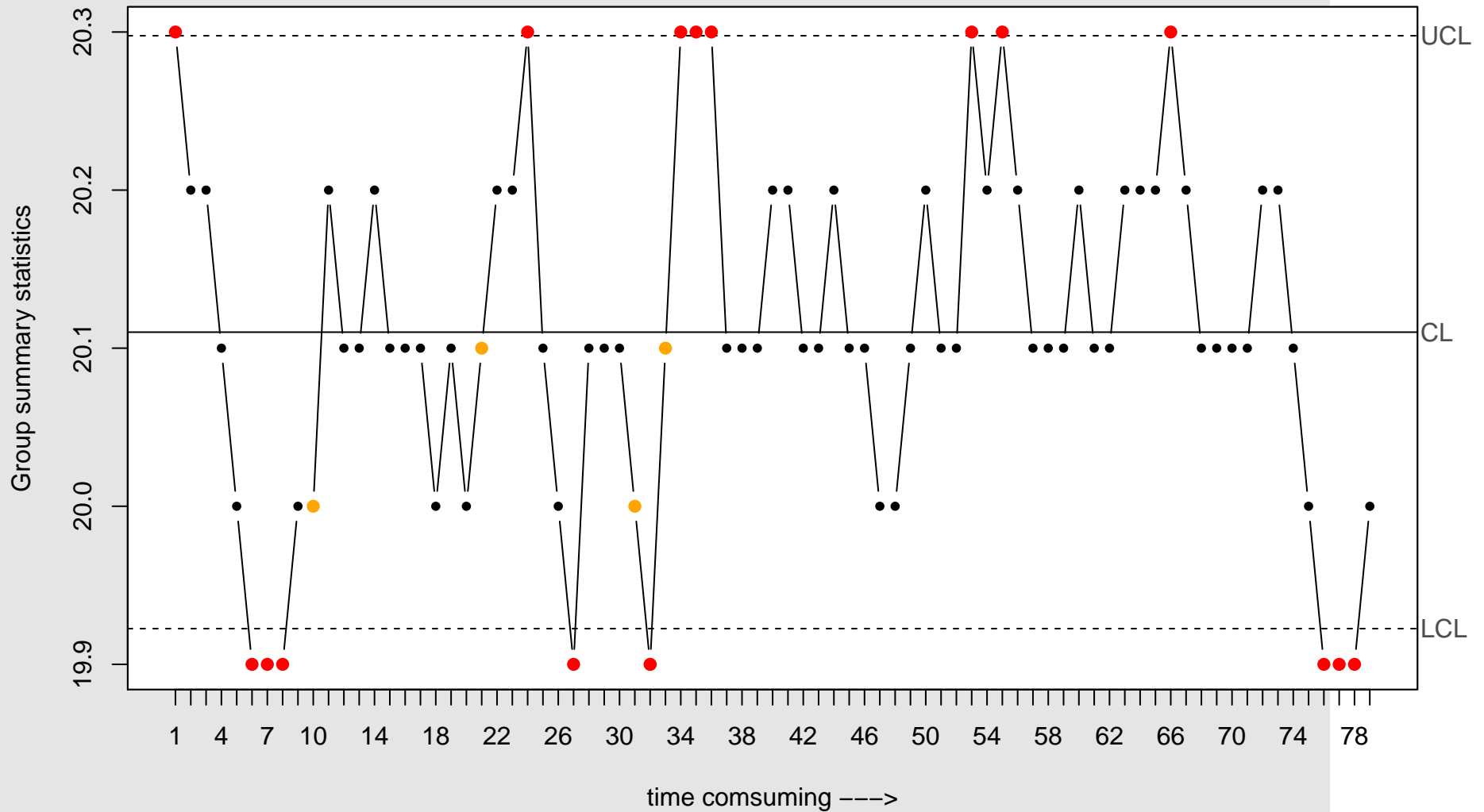
LCL = 19.93088

UCL = 20.2514

Number beyond limits = 5

Number violating runs = 17

183th column point of this product

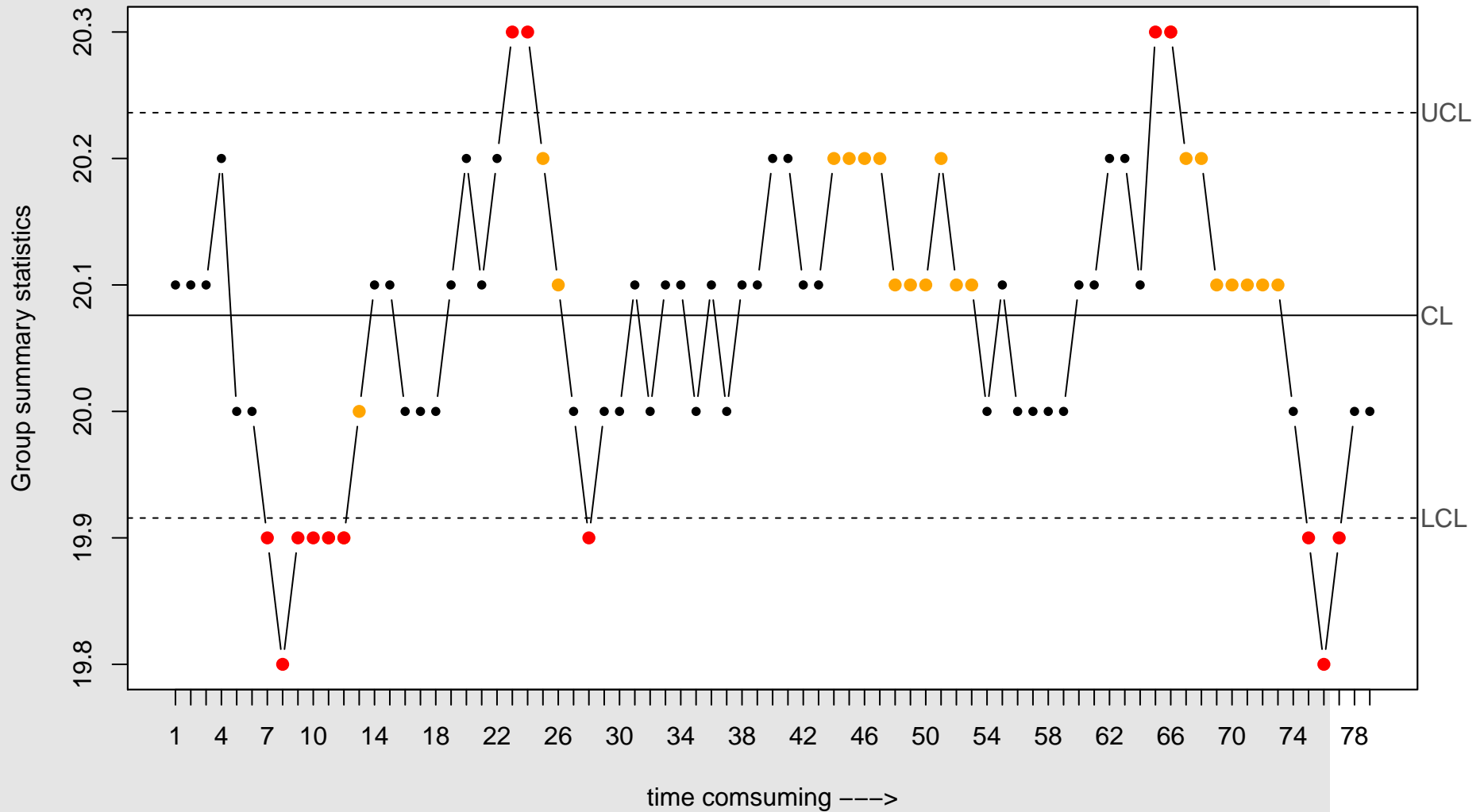


Number of groups = 79
Center = 20.11013
StdDev = 0.06251137

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

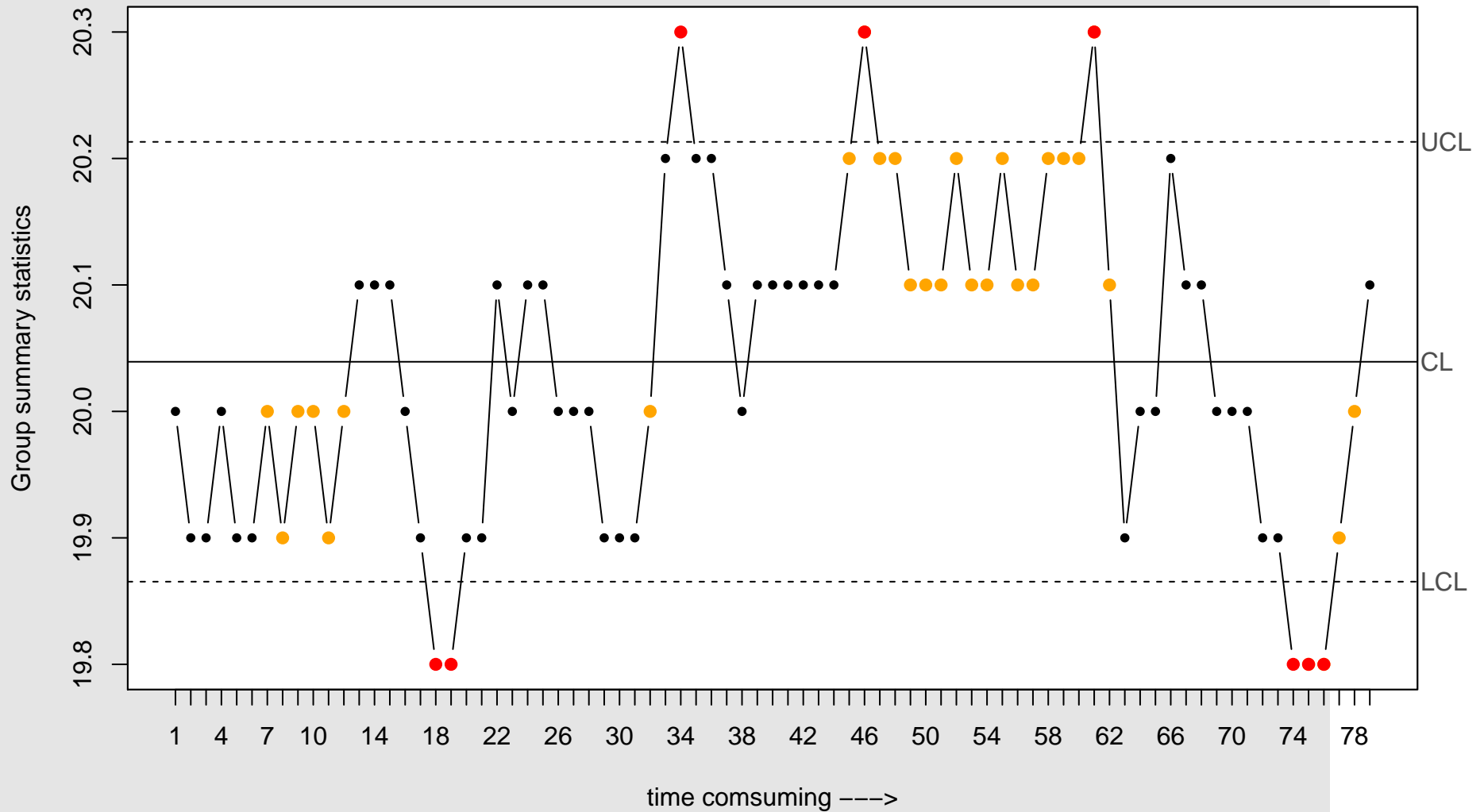
LCL = 19.91569

UCL = 20.23621

Number beyond limits = 14

Number violating runs = 23

185th column point of this product

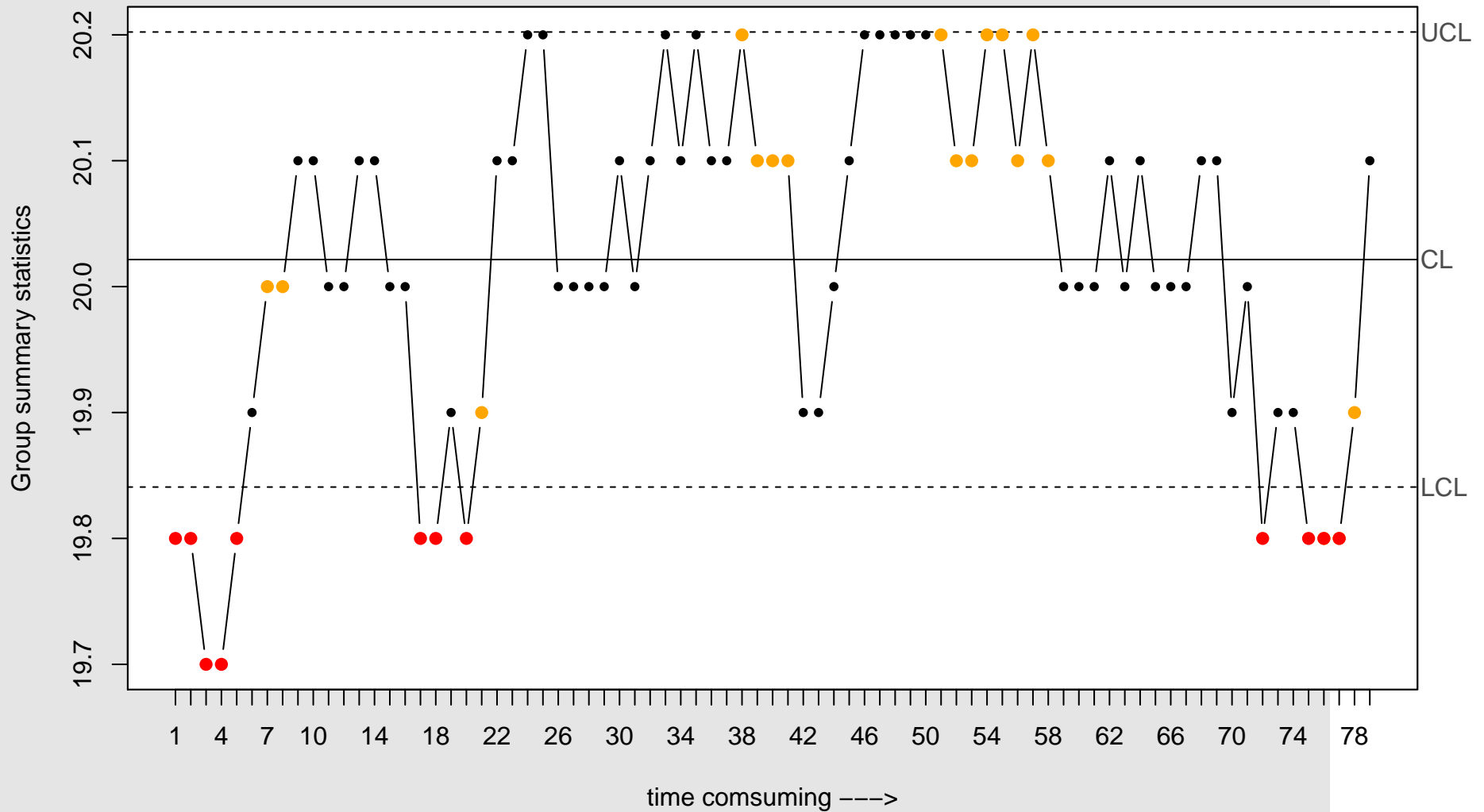


Number of groups = 79
 Center = 20.03924
 StdDev = 0.05796508

LCL = 19.86535
 UCL = 20.21314

Number beyond limits = 8
 Number violating runs = 29

186th column point of this product

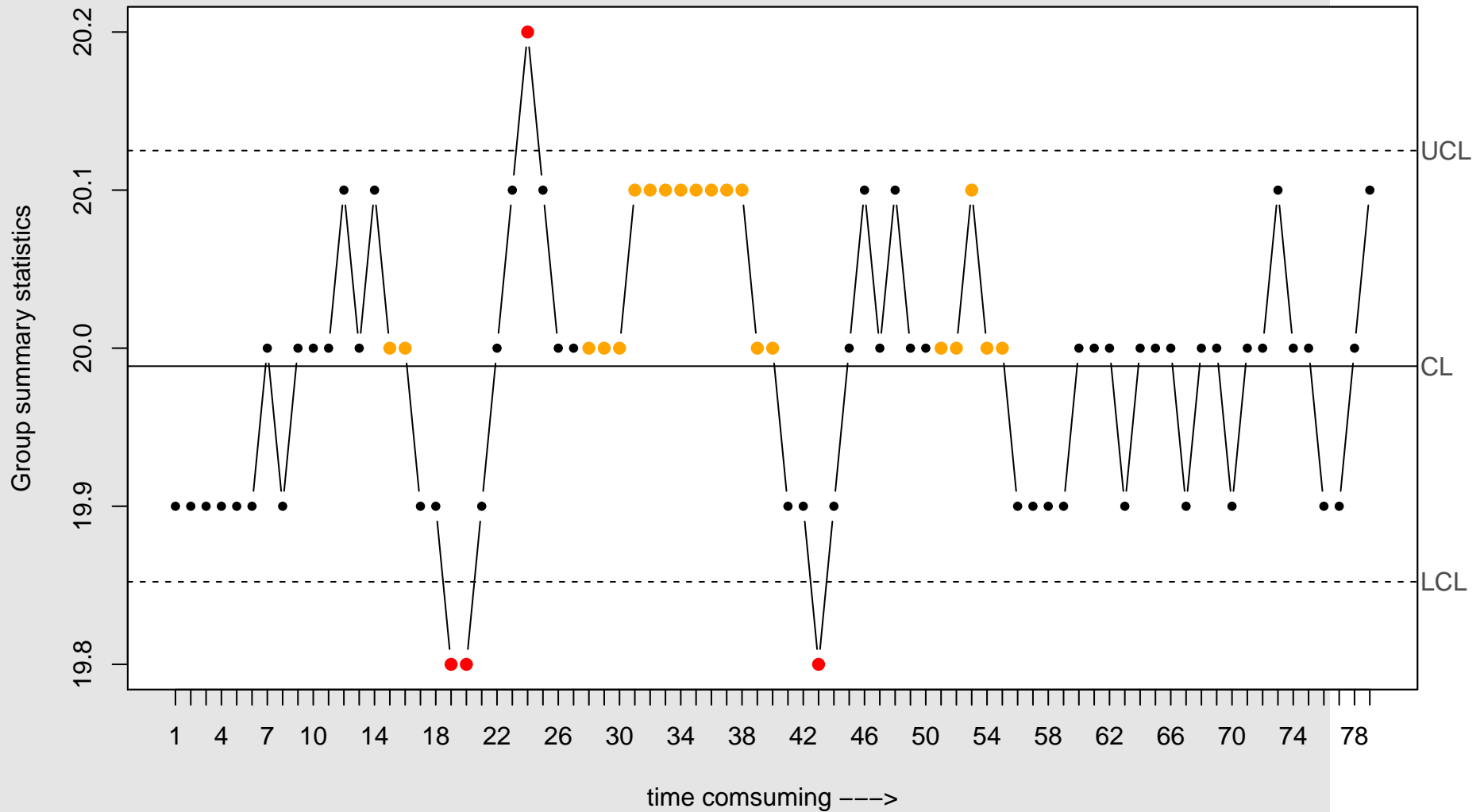


Number of groups = 79
 Center = 20.02152
 StdDev = 0.06023823

LCL = 19.8408
 UCL = 20.20223

Number beyond limits = 12
 Number violating runs = 18

187th column point of this product

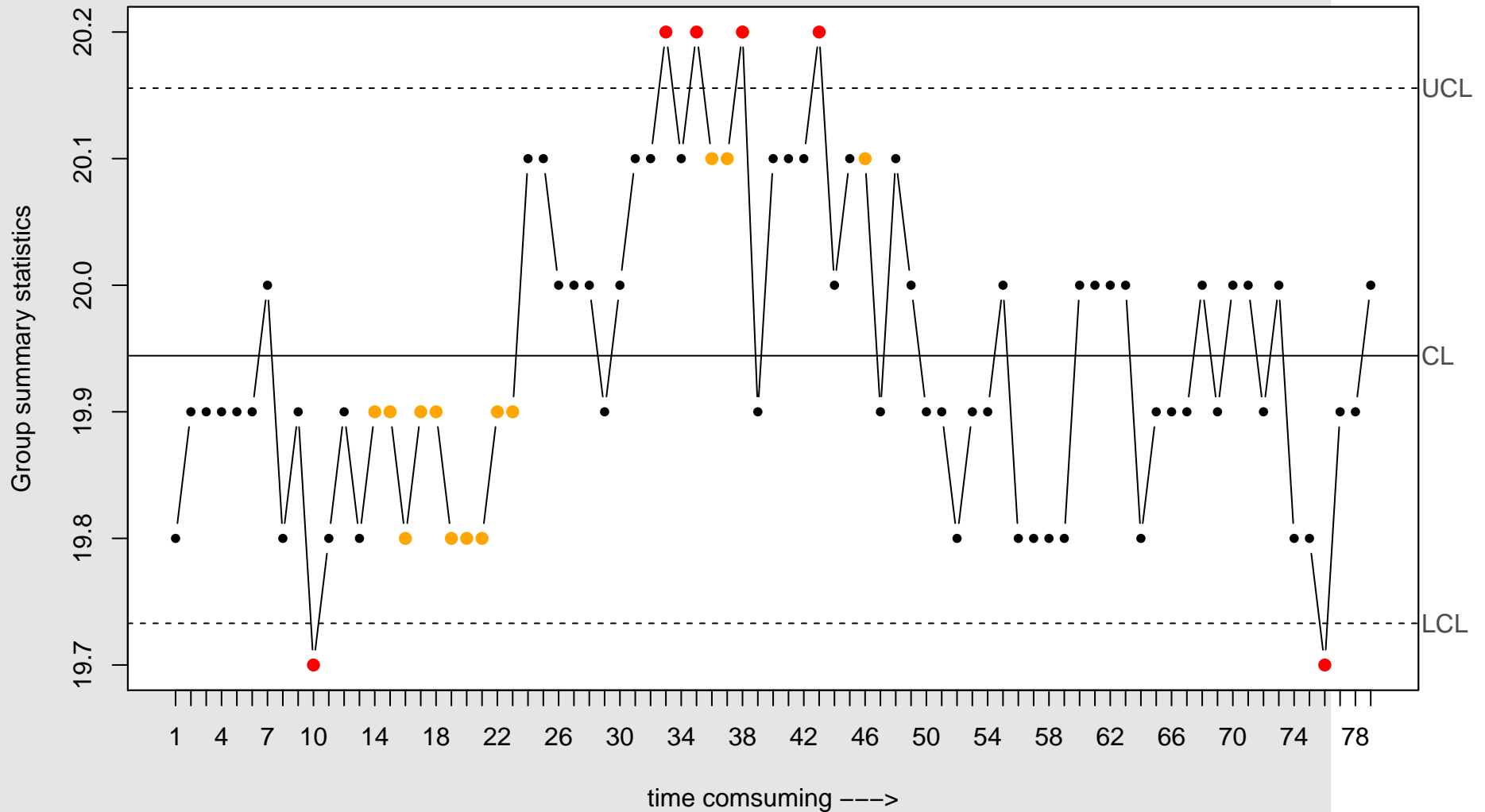


Number of groups = 79
 Center = 19.98861
 StdDev = 0.04546281

LCL = 19.85222
 UCL = 20.125

Number beyond limits = 4
 Number violating runs = 20

188th column point of this product

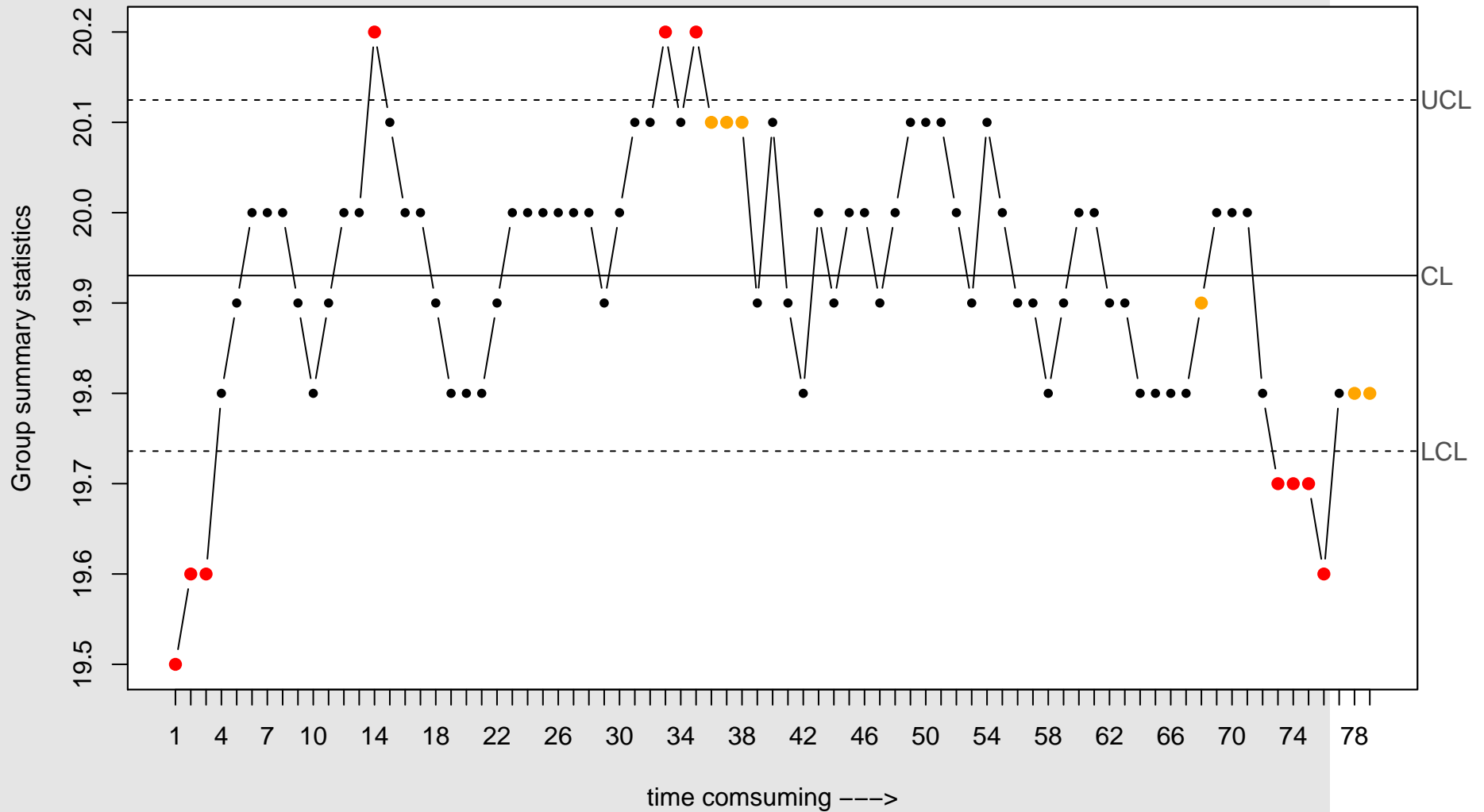


Number of groups = 79
 Center = 19.9443
 StdDev = 0.07046736

LCL = 19.7329
 UCL = 20.15571

Number beyond limits = 6
 Number violating runs = 14

189th column point of this product

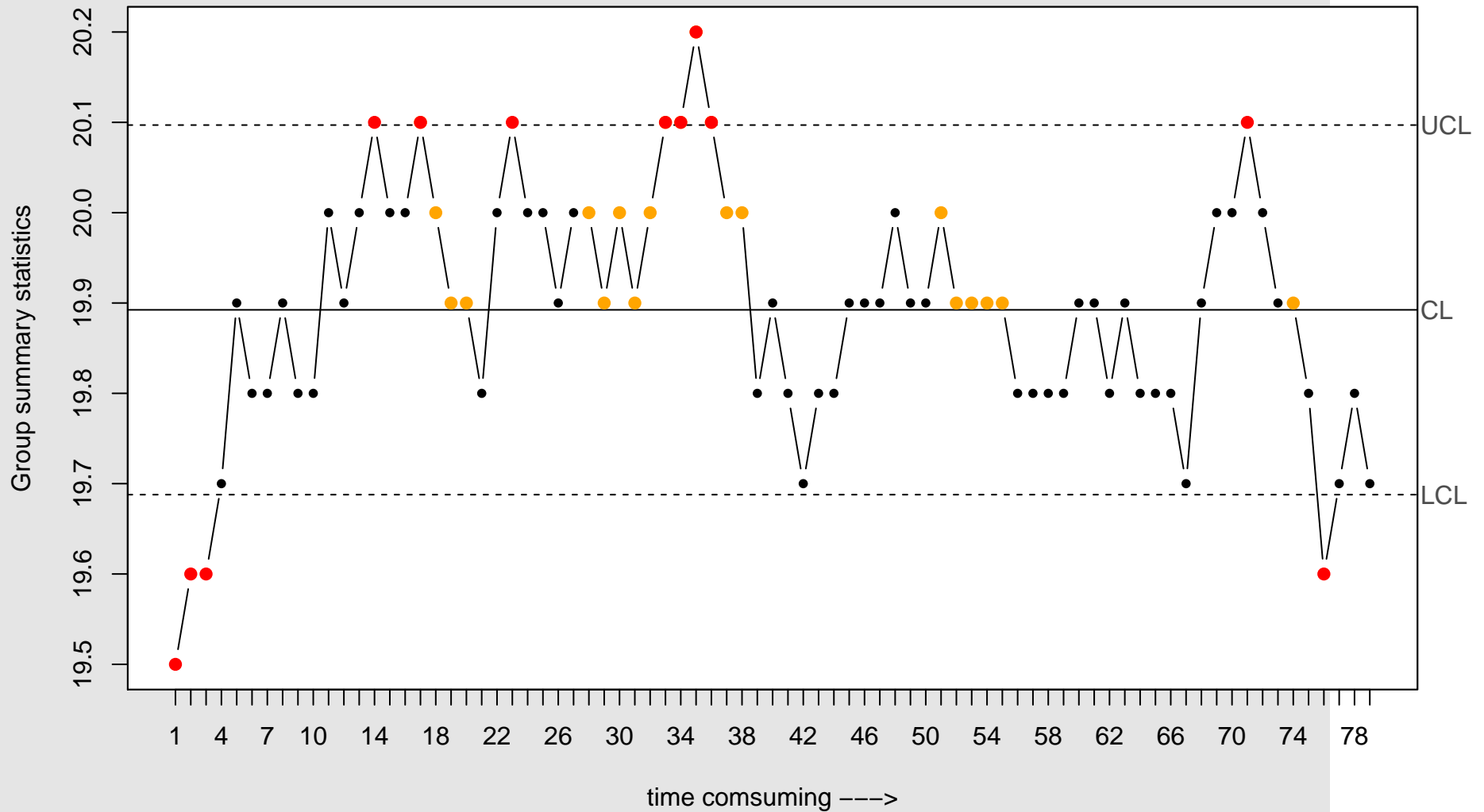


Number of groups = 79
 Center = 19.93038
 StdDev = 0.06478451

LCL = 19.73603
 UCL = 20.12473

Number beyond limits = 10
 Number violating runs = 6

190th column point of this product

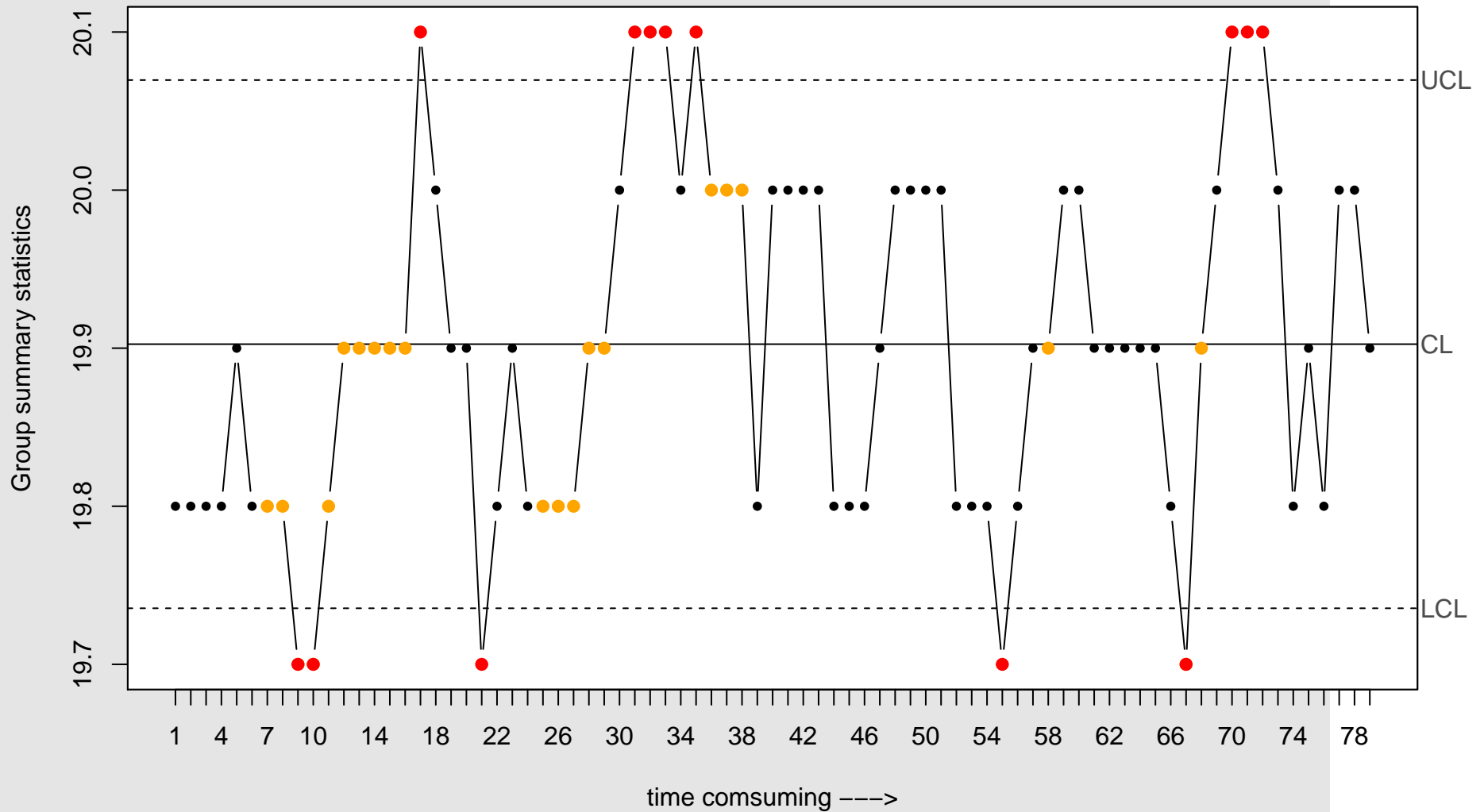


Number of groups = 79
Center = 19.89241
StdDev = 0.06819422

LCL = 19.68782
UCL = 20.09699

Number beyond limits = 12
Number violating runs = 21

191th column point of this product

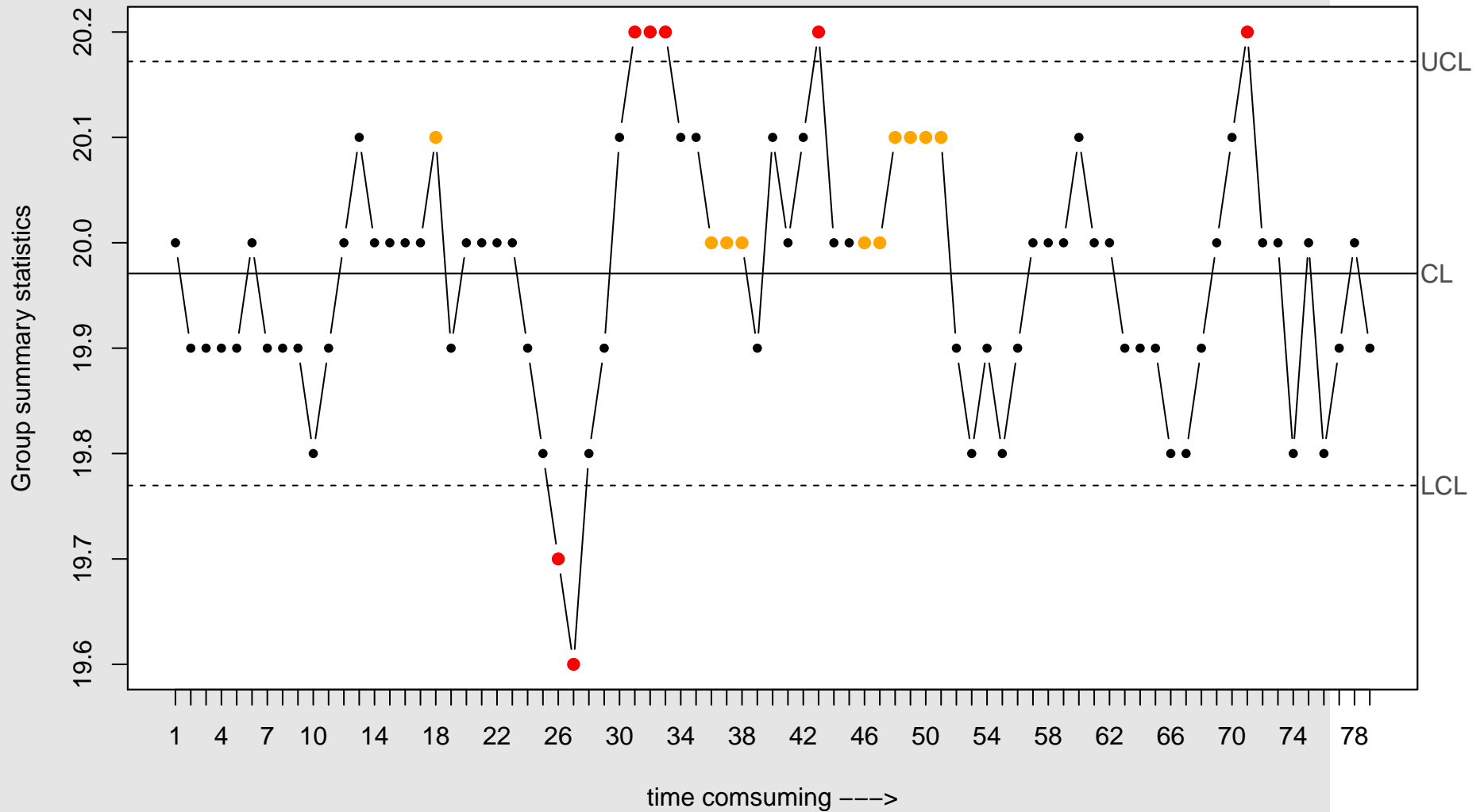


Number of groups = 79
Center = 19.90253
StdDev = 0.05569194

LCL = 19.73546
UCL = 20.06961

Number beyond limits = 13
Number violating runs = 21

192th column point of this product

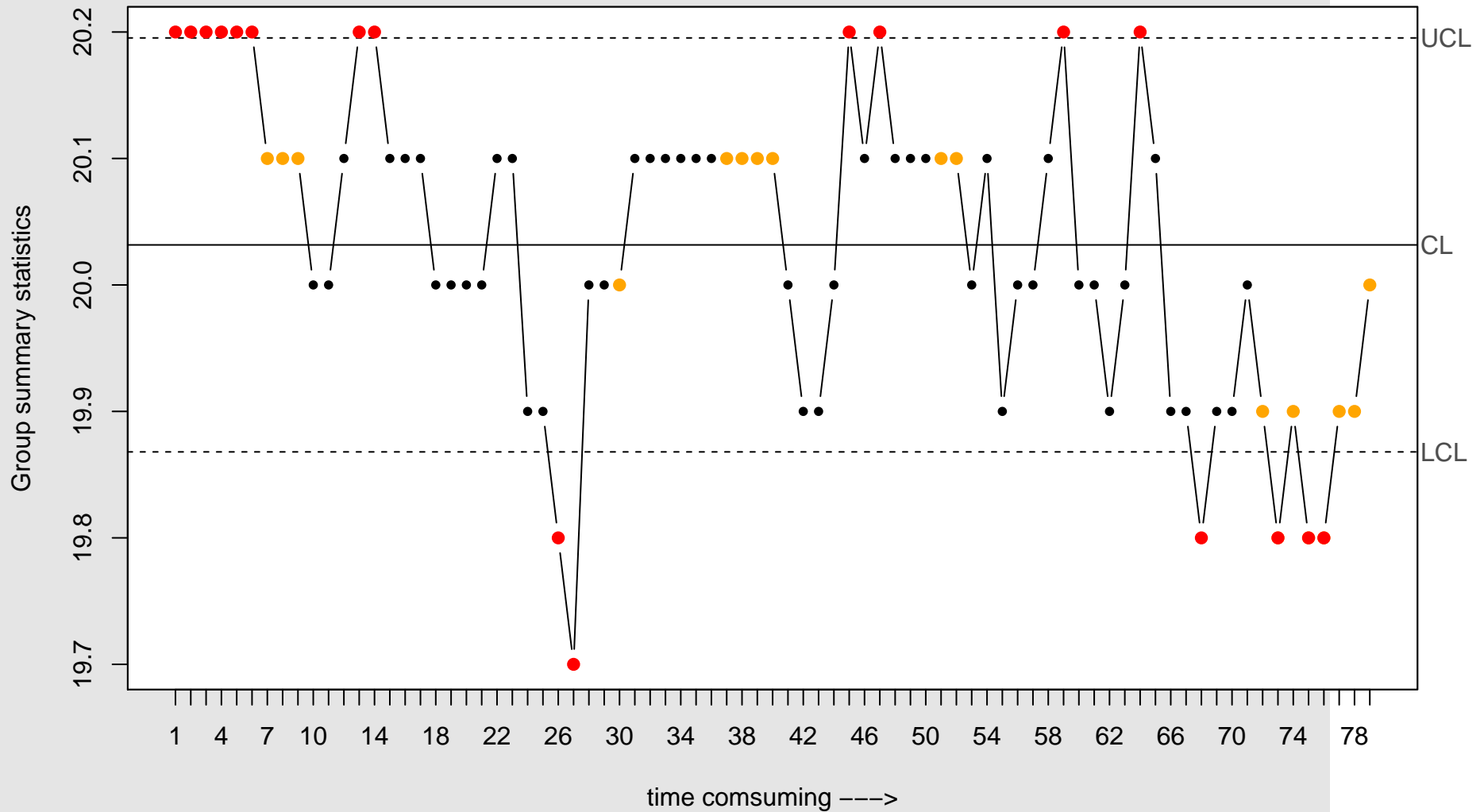


Number of groups = 79
Center = 19.97089
StdDev = 0.06705765

LCL = 19.76971
UCL = 20.17206

Number beyond limits = 7
Number violating runs = 10

193th column point of this product

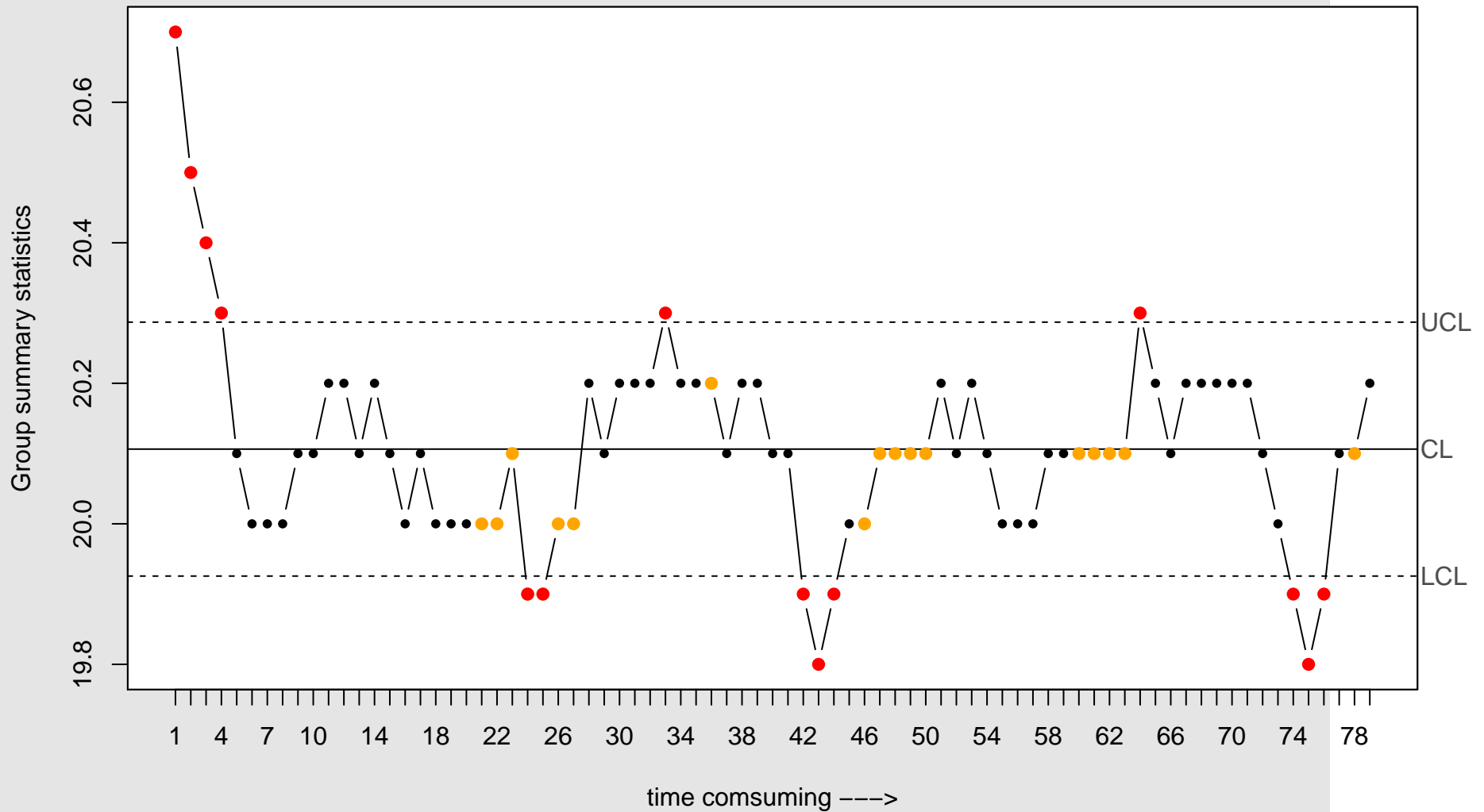


Number of groups = 79
Center = 20.03165
StdDev = 0.05455537

LCL = 19.86798
UCL = 20.19531

Number beyond limits = 18
Number violating runs = 18

194th column point of this product

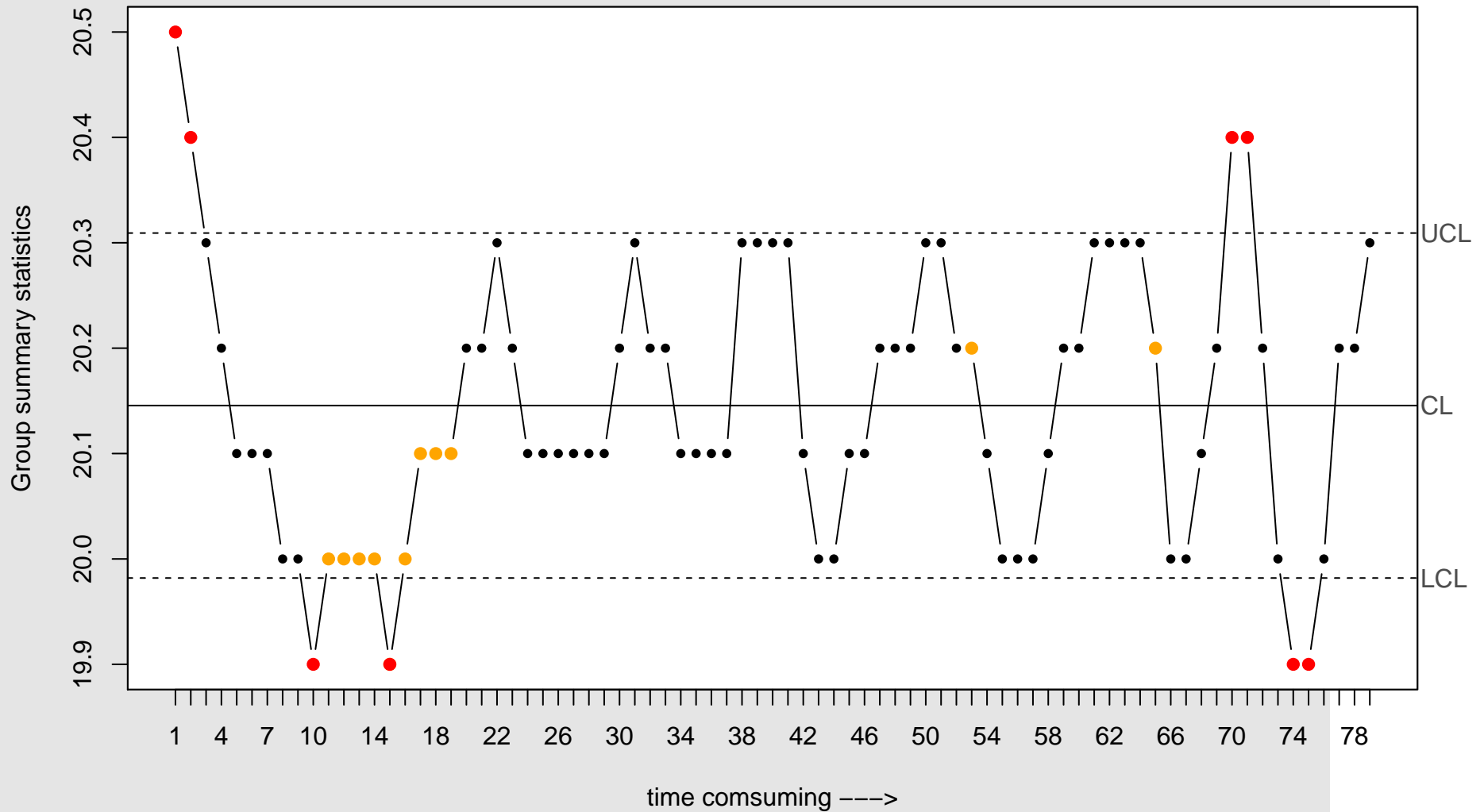


Number of groups = 79
Center = 20.10633
StdDev = 0.06023823

LCL = 19.92561
UCL = 20.28704

Number beyond limits = 14
Number violating runs = 18

195th column point of this product

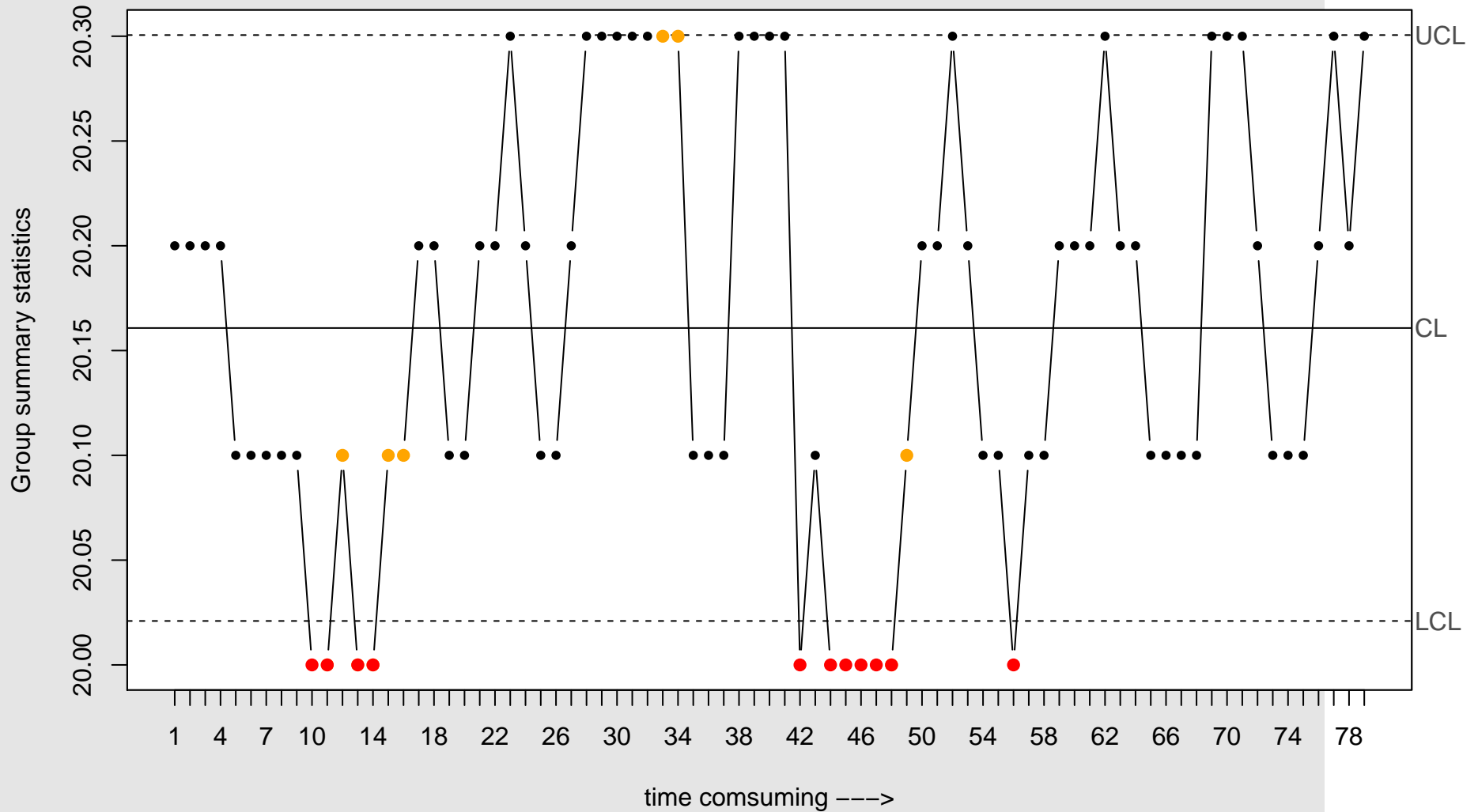


Number of groups = 79
 Center = 20.14557
 StdDev = 0.05455537

LCL = 19.9819
 UCL = 20.30924

Number beyond limits = 8
 Number violating runs = 11

196th column point of this product

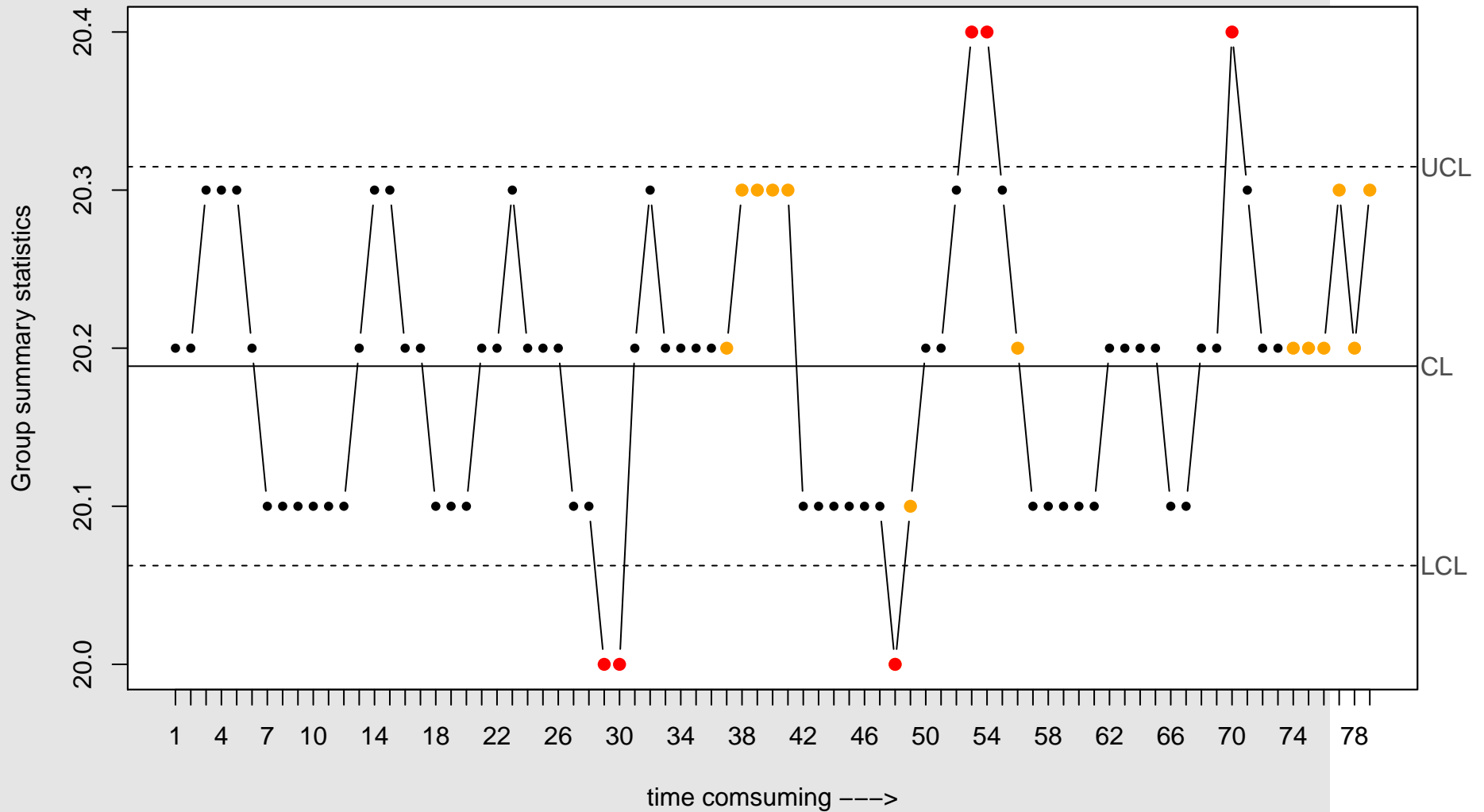


Number of groups = 79
 Center = 20.16076
 StdDev = 0.04659938

LCL = 20.02096
 UCL = 20.30056

Number beyond limits = 11
 Number violating runs = 10

197th column point of this product

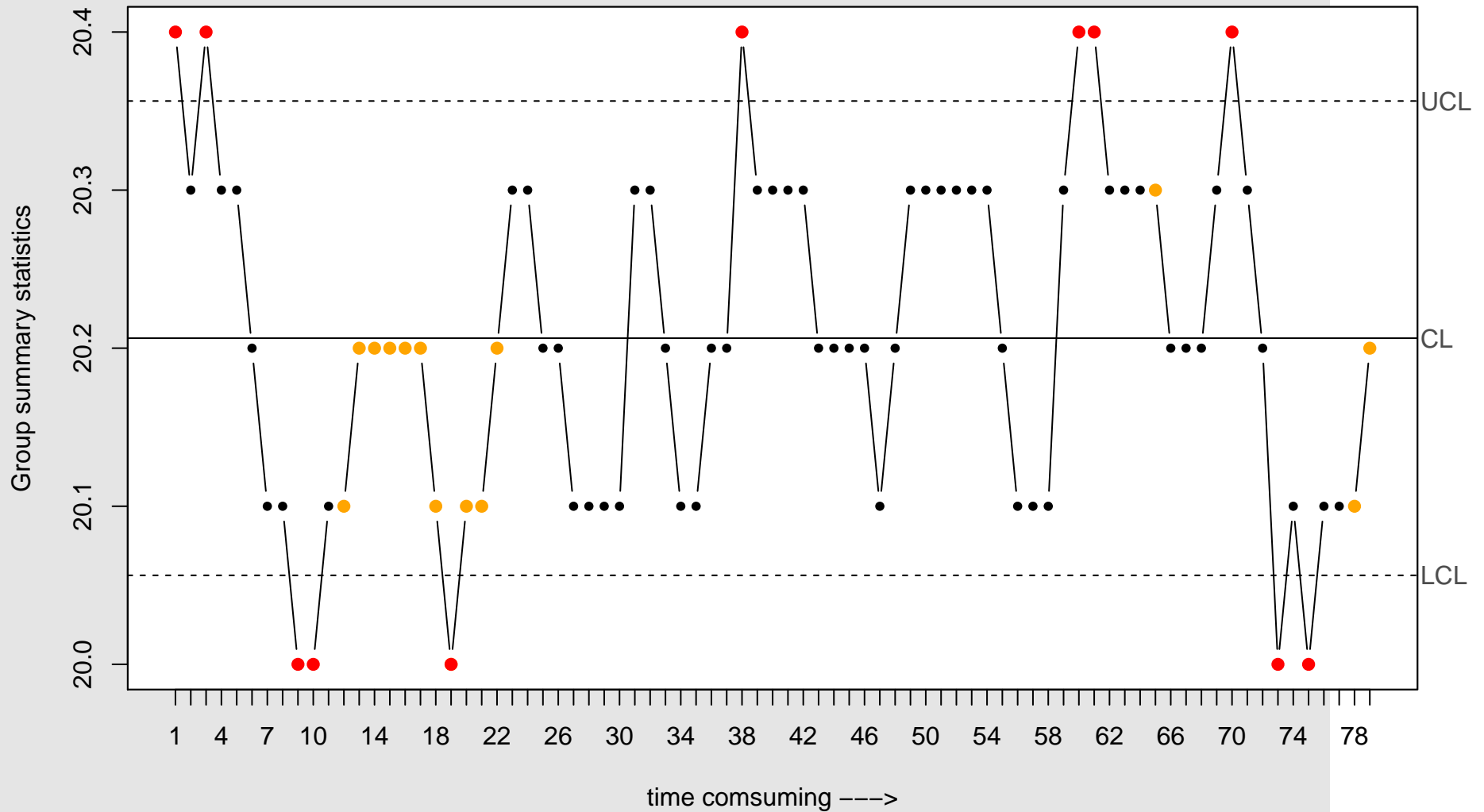


Number of groups = 79
Center = 20.18861
StdDev = 0.0420531

LCL = 20.06245
UCL = 20.31477

Number beyond limits = 6
Number violating runs = 14

198th column point of this product

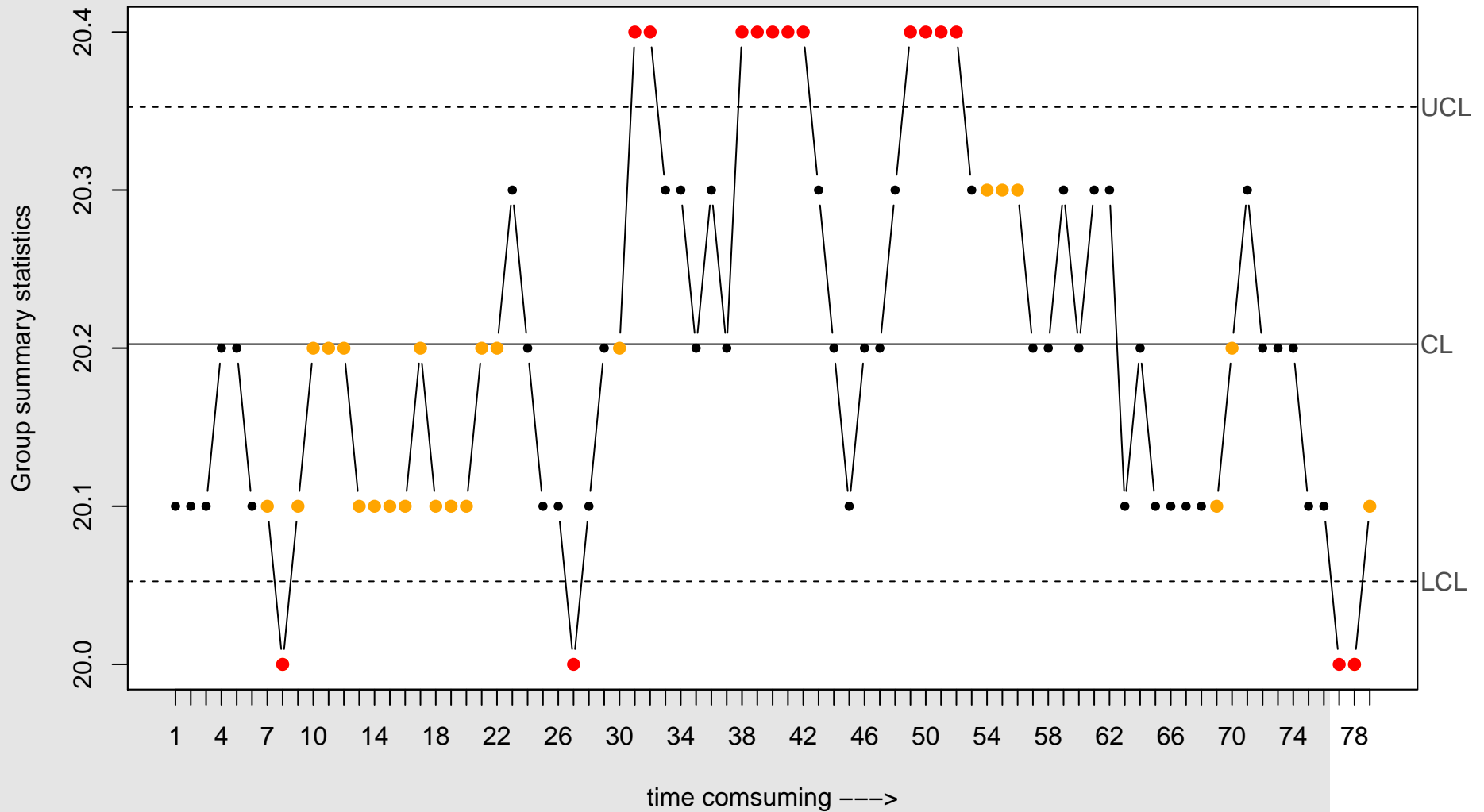


Number of groups = 79
Center = 20.20633
StdDev = 0.05000909

LCL = 20.0563
UCL = 20.35636

Number beyond limits = 11
Number violating runs = 14

199th column point of this product

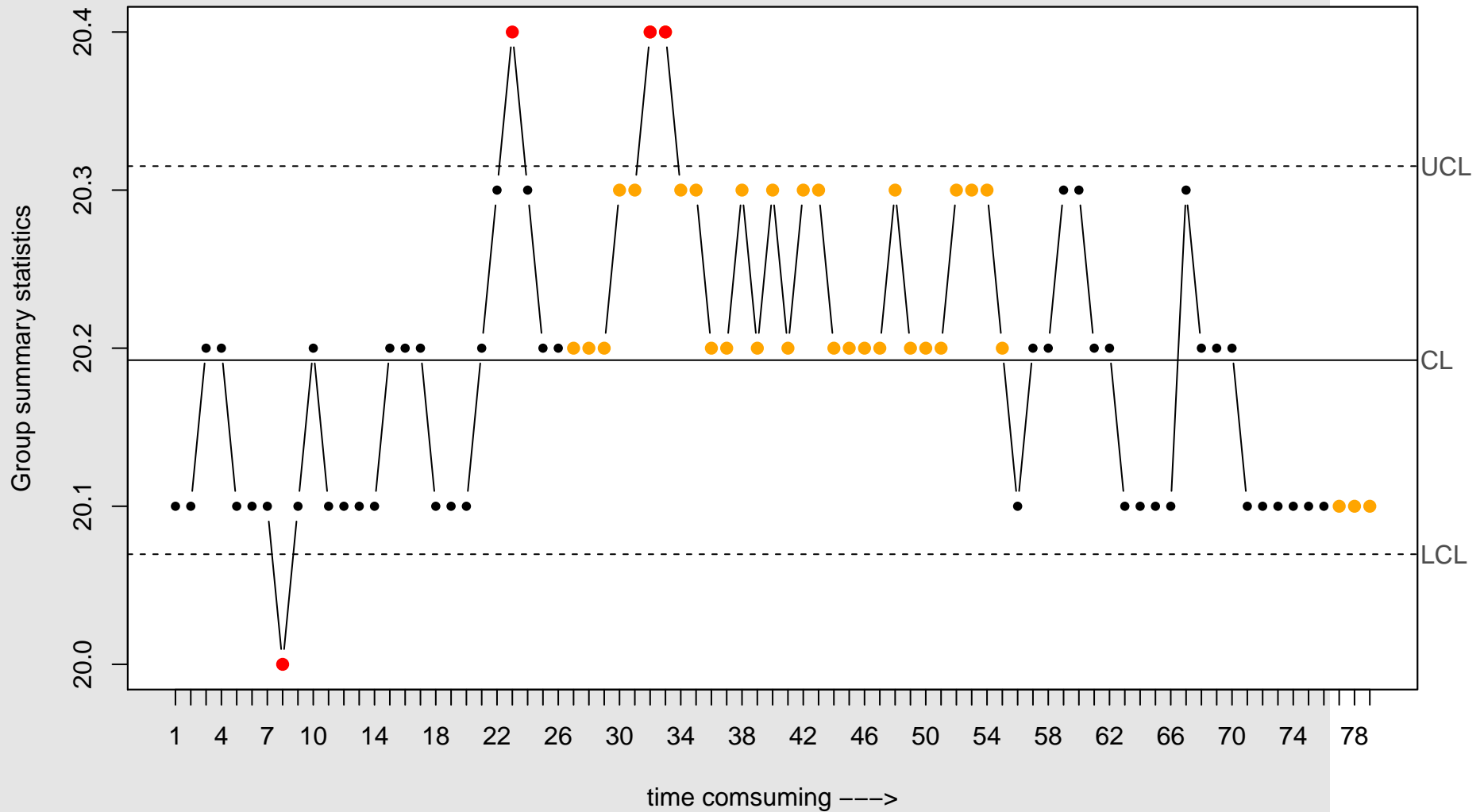


Number of groups = 79
Center = 20.20253
StdDev = 0.05000909

LCL = 20.0525
UCL = 20.35256

Number beyond limits = 15
Number violating runs = 24

200th column point of this product

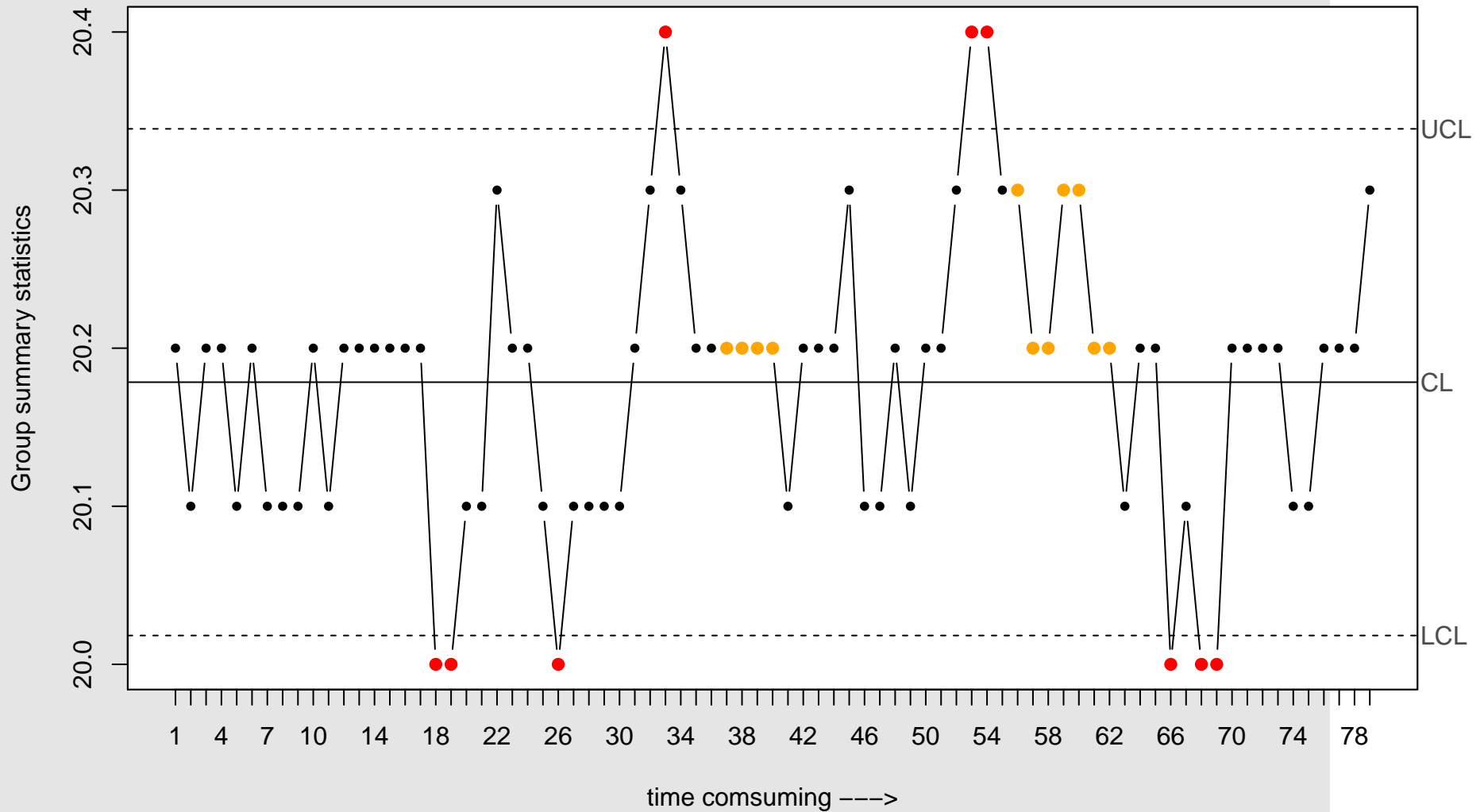


Number of groups = 79
 Center = 20.19241
 StdDev = 0.04091653

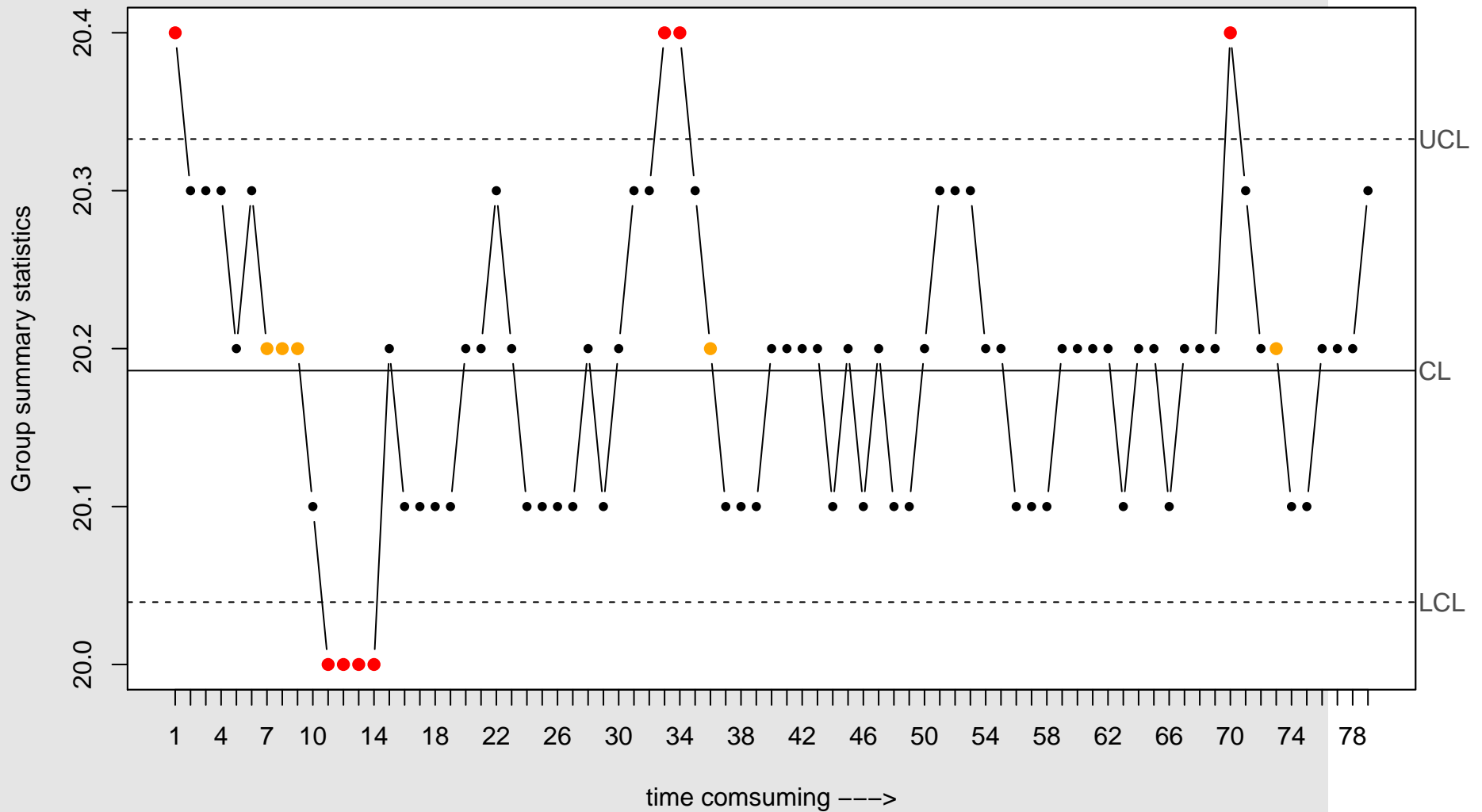
LCL = 20.06966
 UCL = 20.31515

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

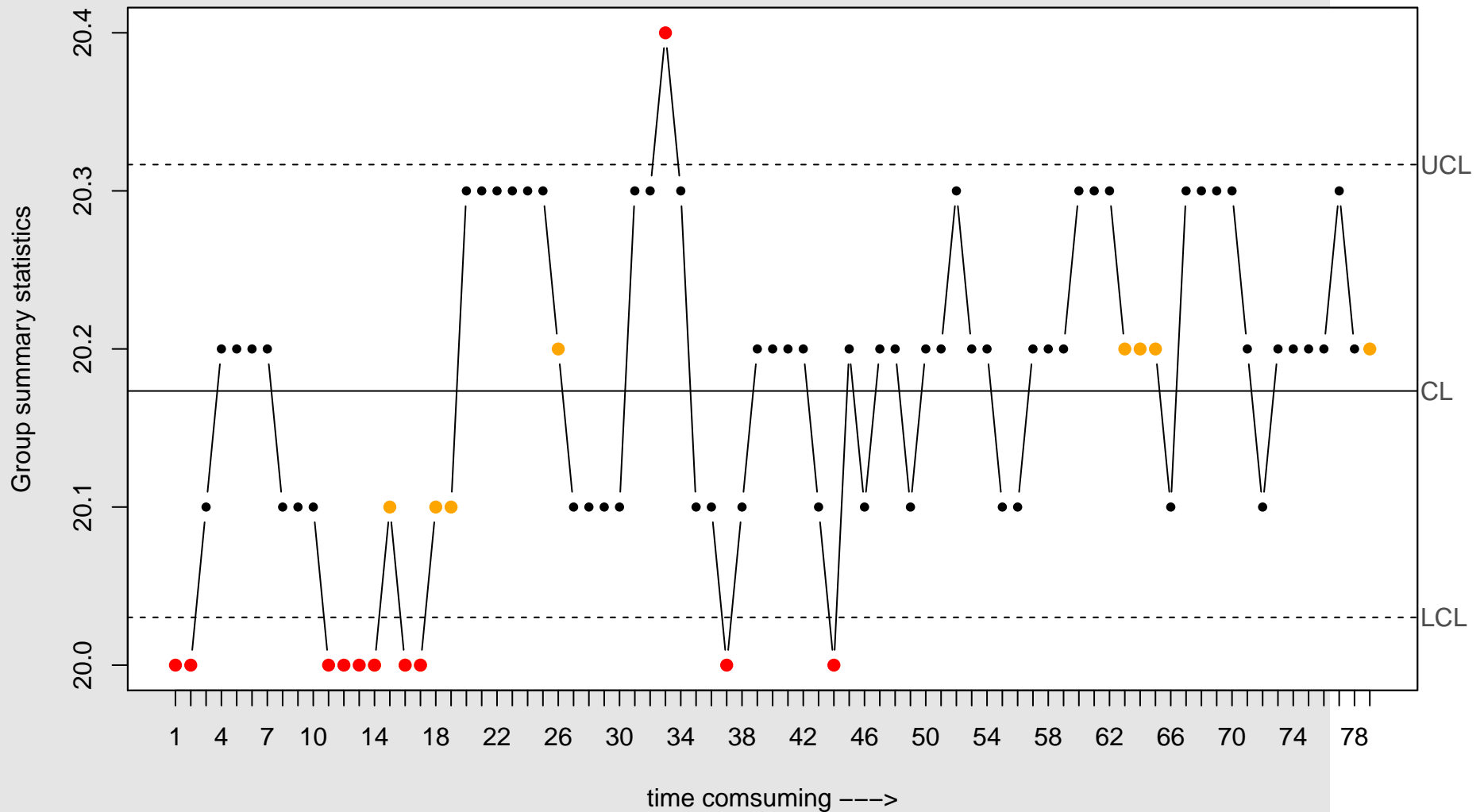
LCL = 20.03946

UCL = 20.33269

Number beyond limits = 8

Number violating runs = 5

203th column point of this product

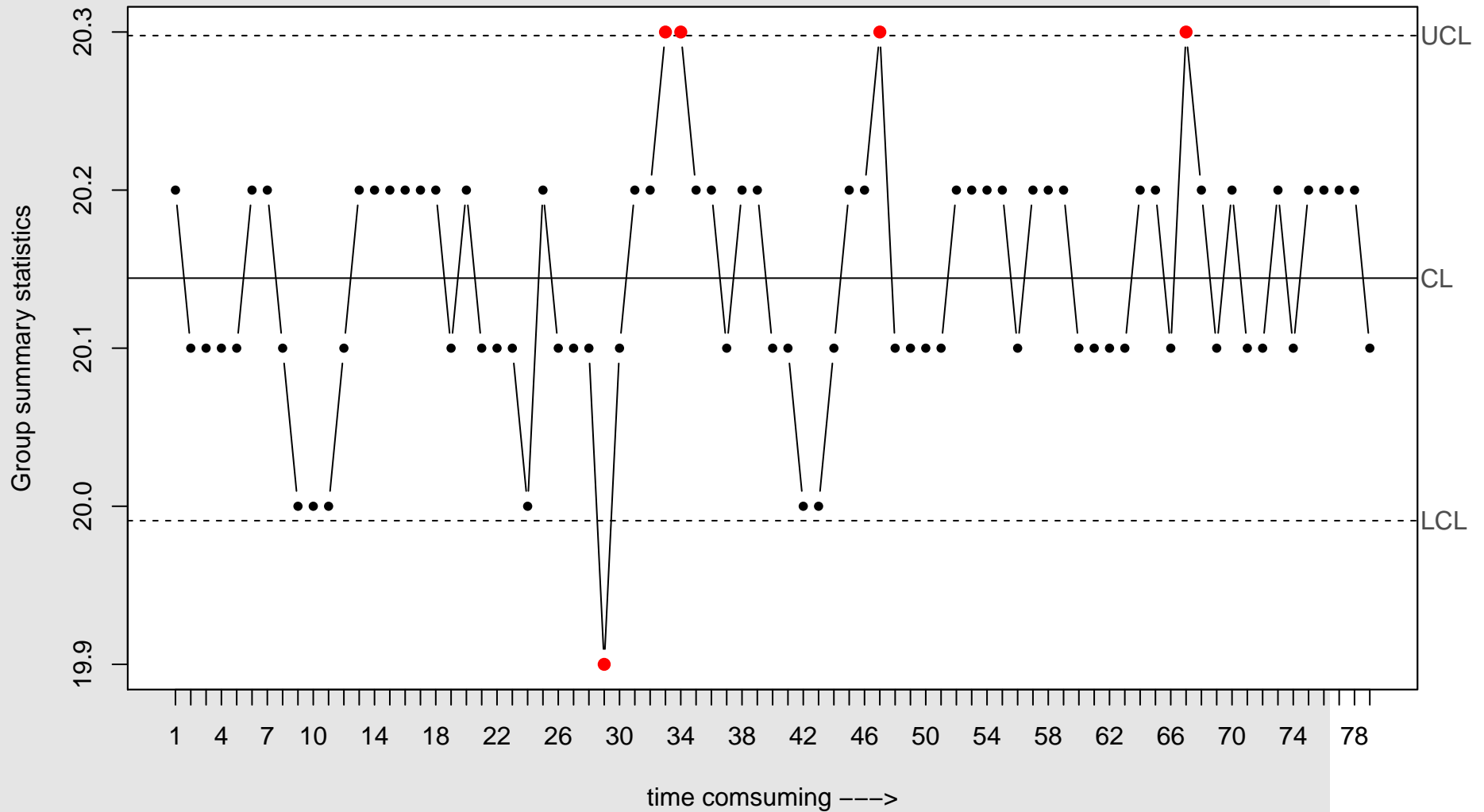


Number of groups = 79
 Center = 20.17342
 StdDev = 0.04773595

LCL = 20.03021
 UCL = 20.31663

Number beyond limits = 11
 Number violating runs = 11

204th column point of this product

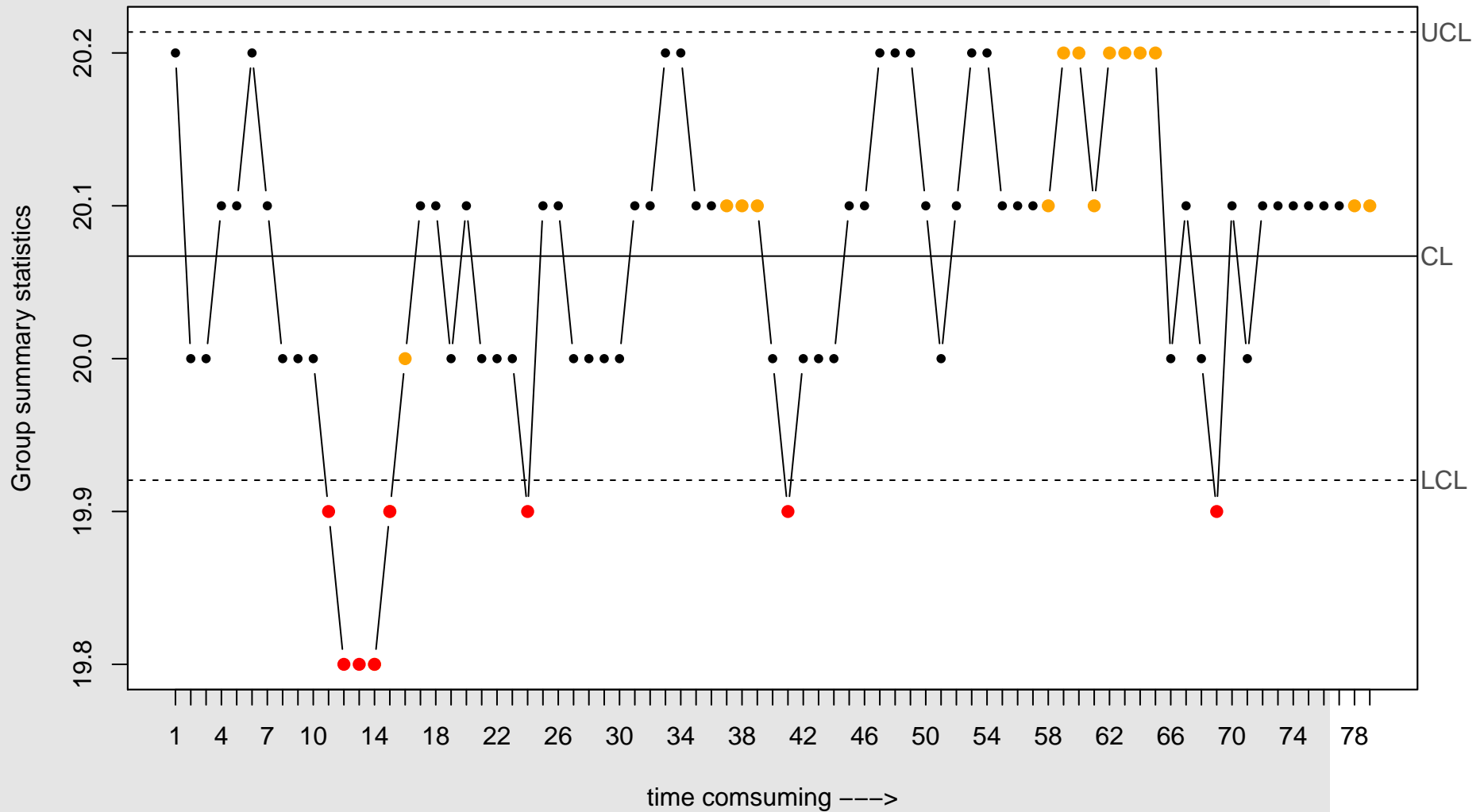


Number of groups = 79
Center = 20.1443
StdDev = 0.05114566

LCL = 19.99087
UCL = 20.29774

Number beyond limits = 5
Number violating runs = 0

205th column point of this product

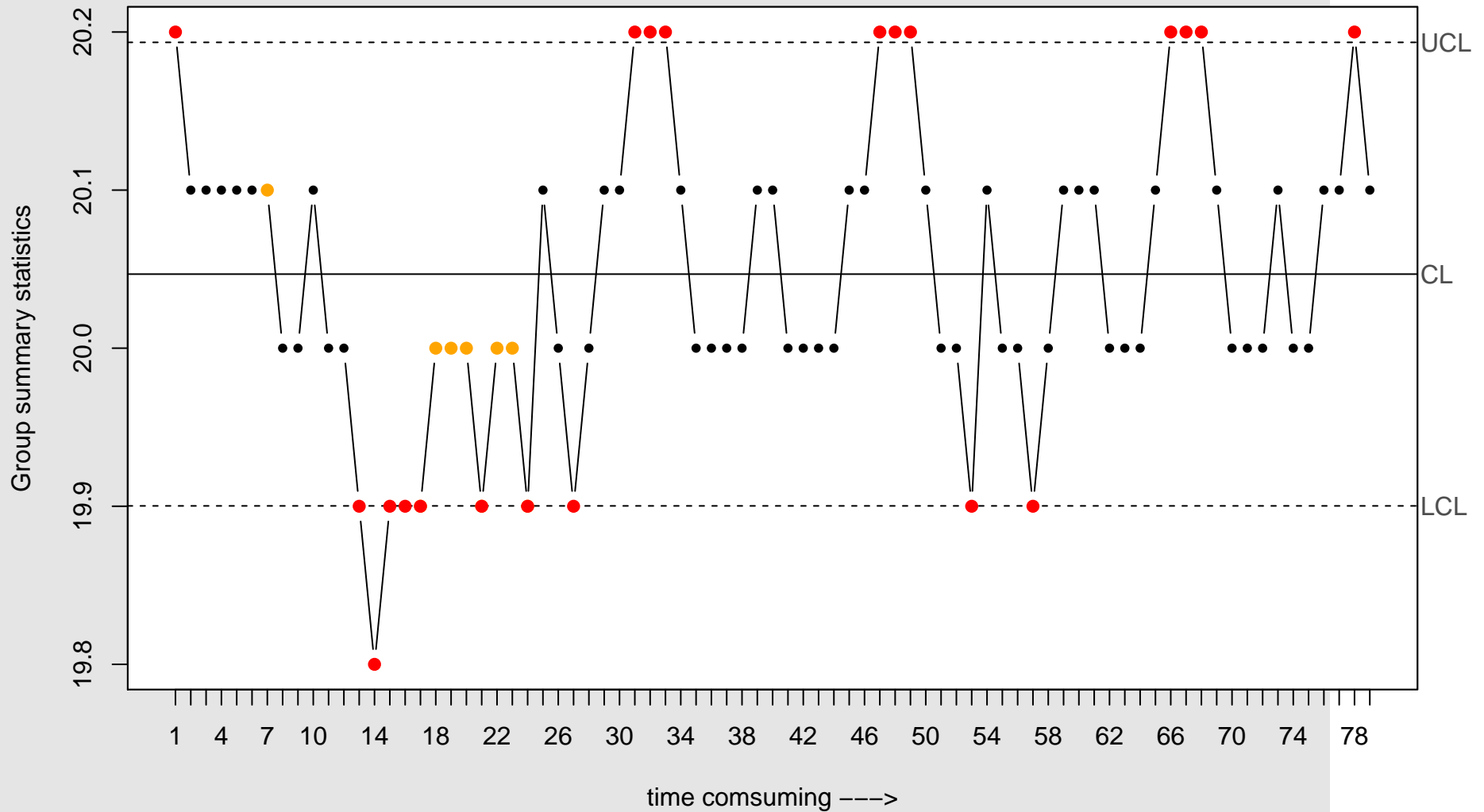


Number of groups = 79
 Center = 20.06709
 StdDev = 0.04887252

LCL = 19.92047
 UCL = 20.21371

Number beyond limits = 8
 Number violating runs = 16

206th column point of this product

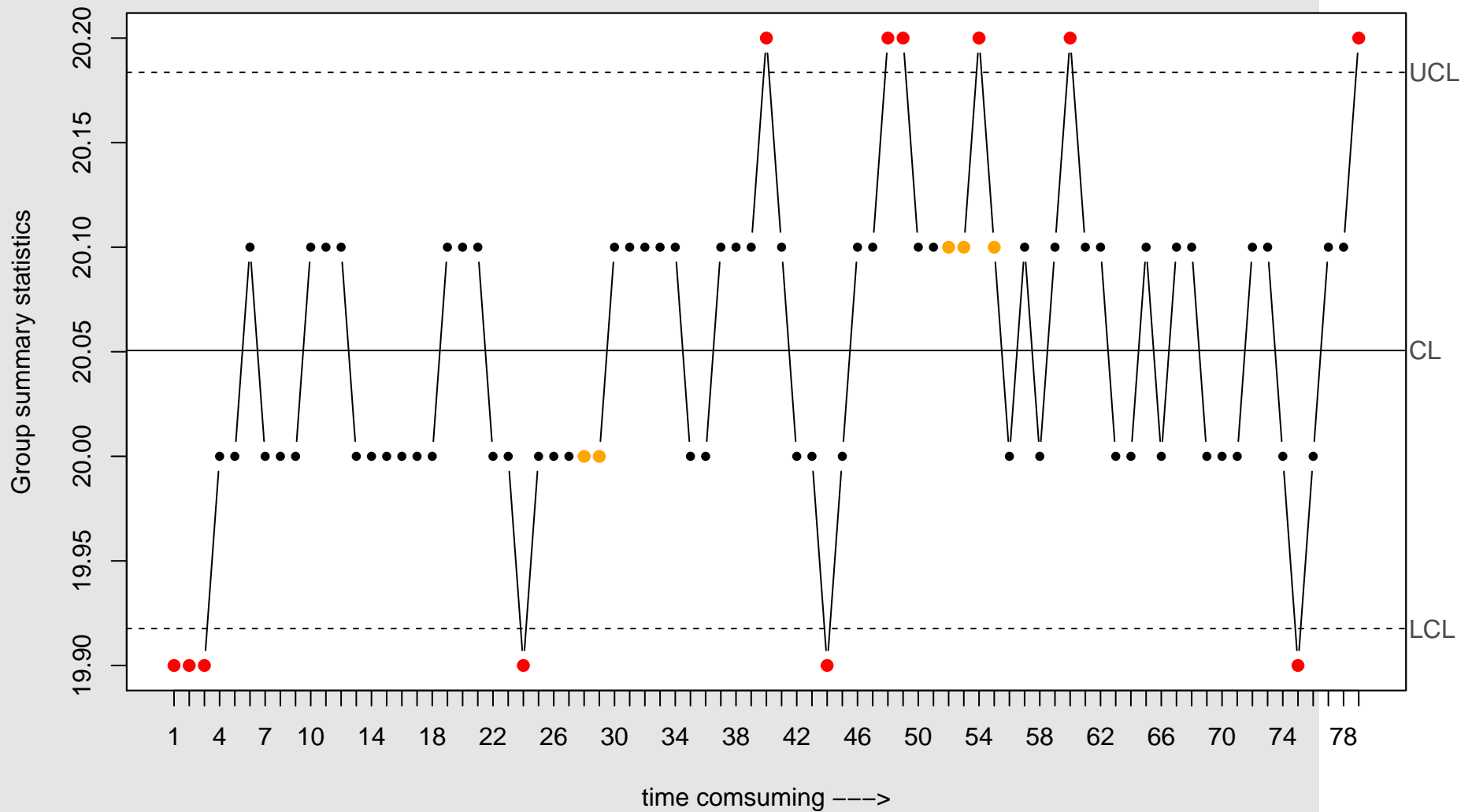


Number of groups = 79
 Center = 20.04684
 StdDev = 0.04887252

LCL = 19.90022
 UCL = 20.19345

Number beyond limits = 21
 Number violating runs = 9

207th column point of this product

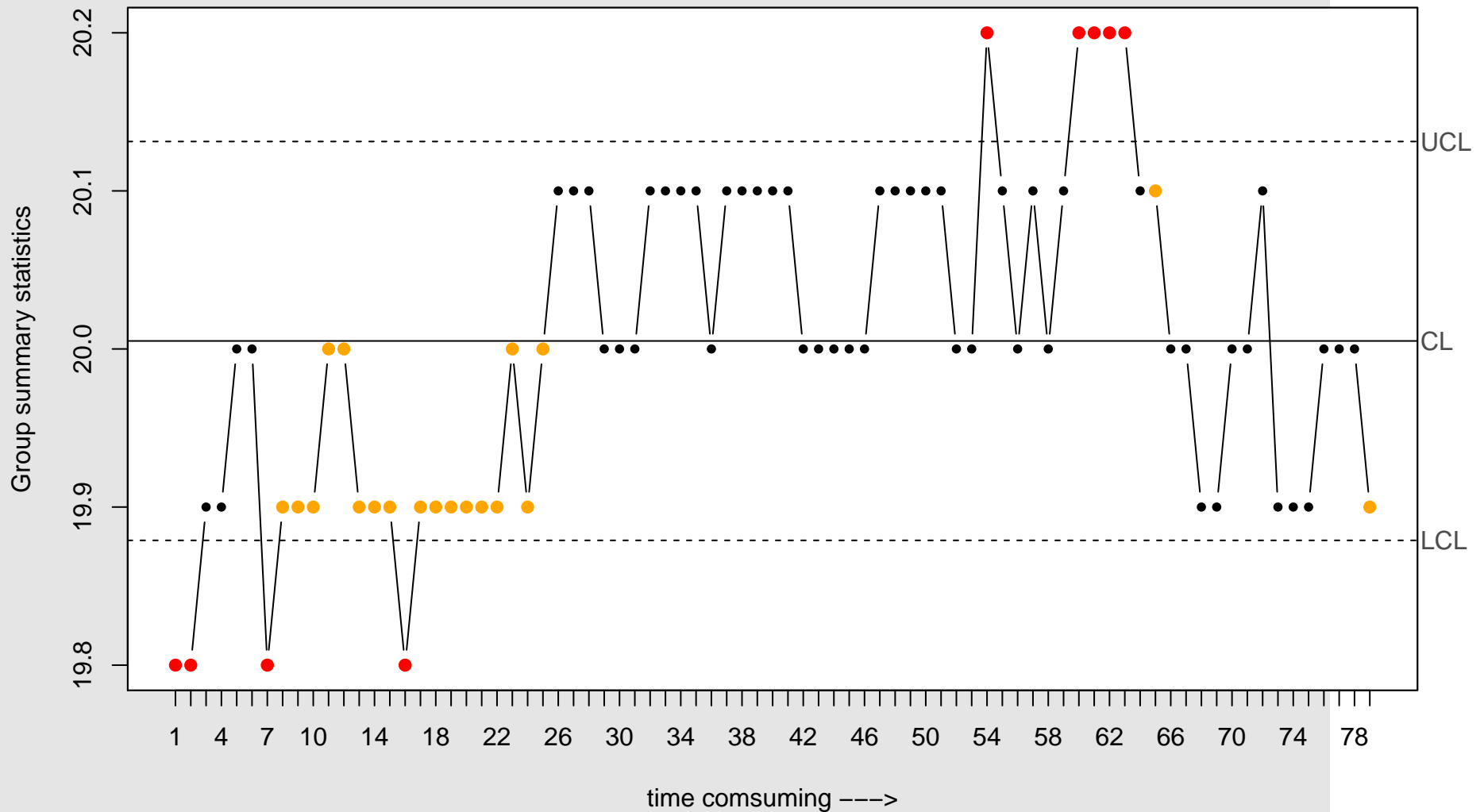


Number of groups = 79
 Center = 20.05063
 StdDev = 0.04432624

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

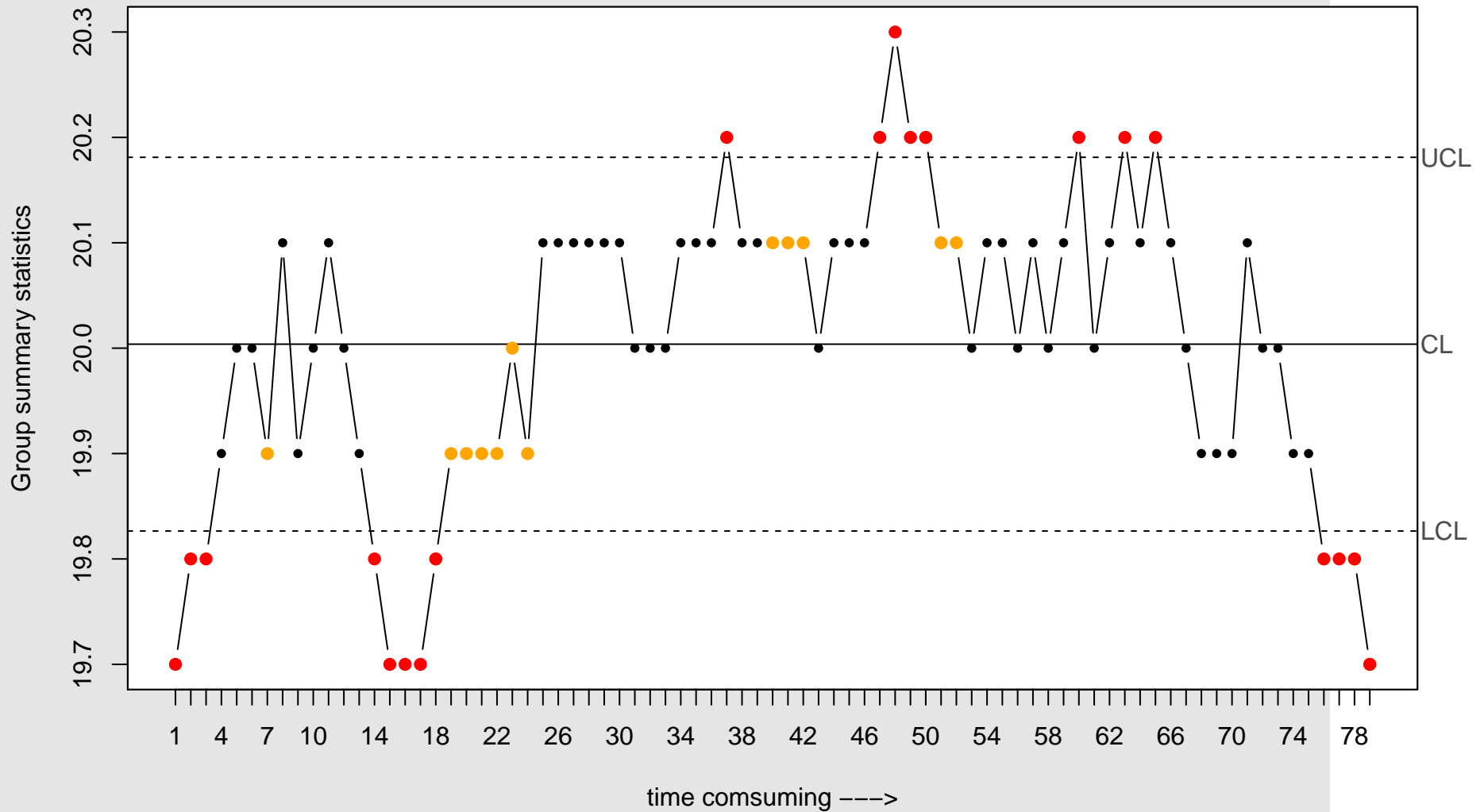
LCL = 19.8789

UCL = 20.13122

Number beyond limits = 9

Number violating runs = 21

209th column point of this product

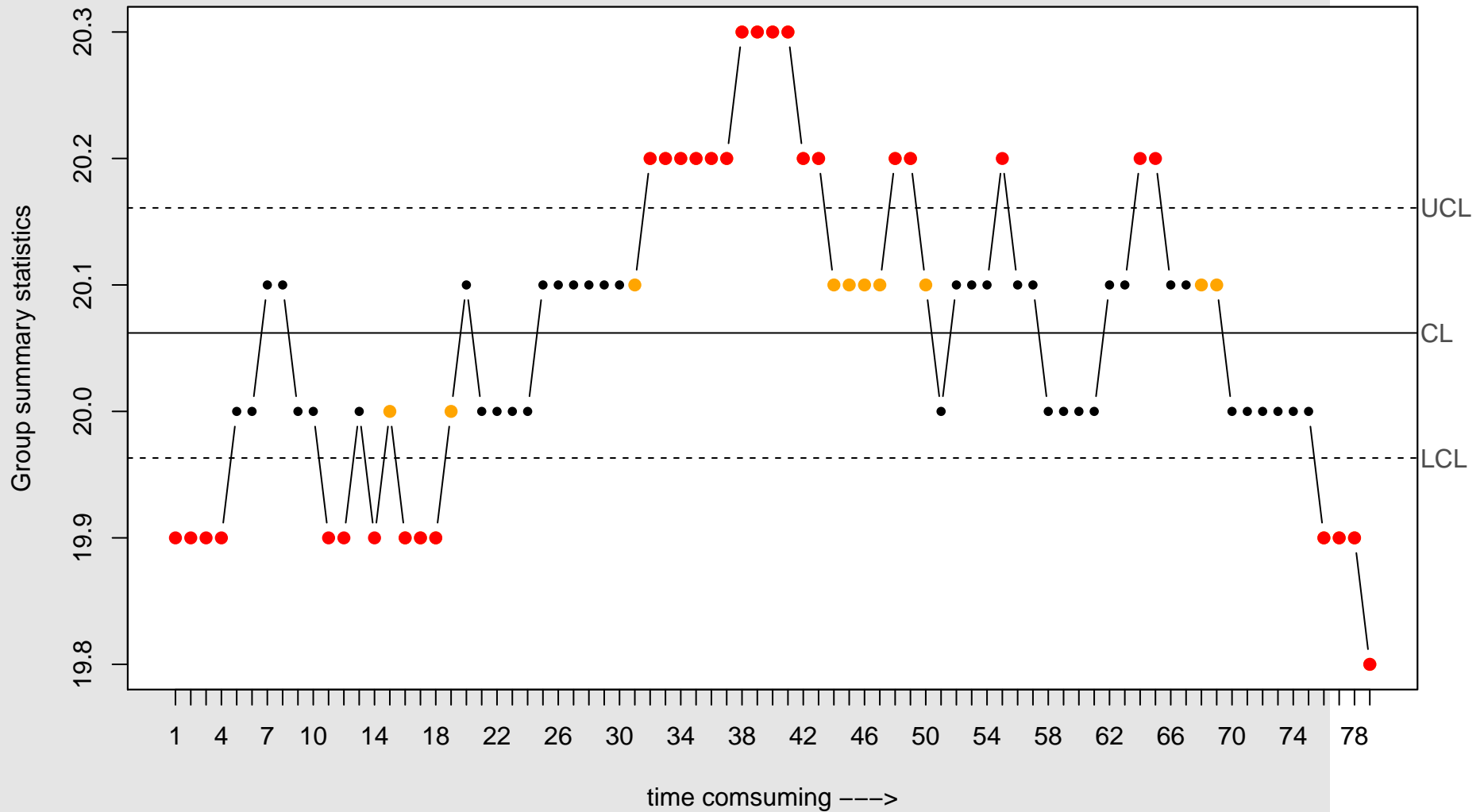


Number of groups = 79
 Center = 20.0038
 StdDev = 0.05910165

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

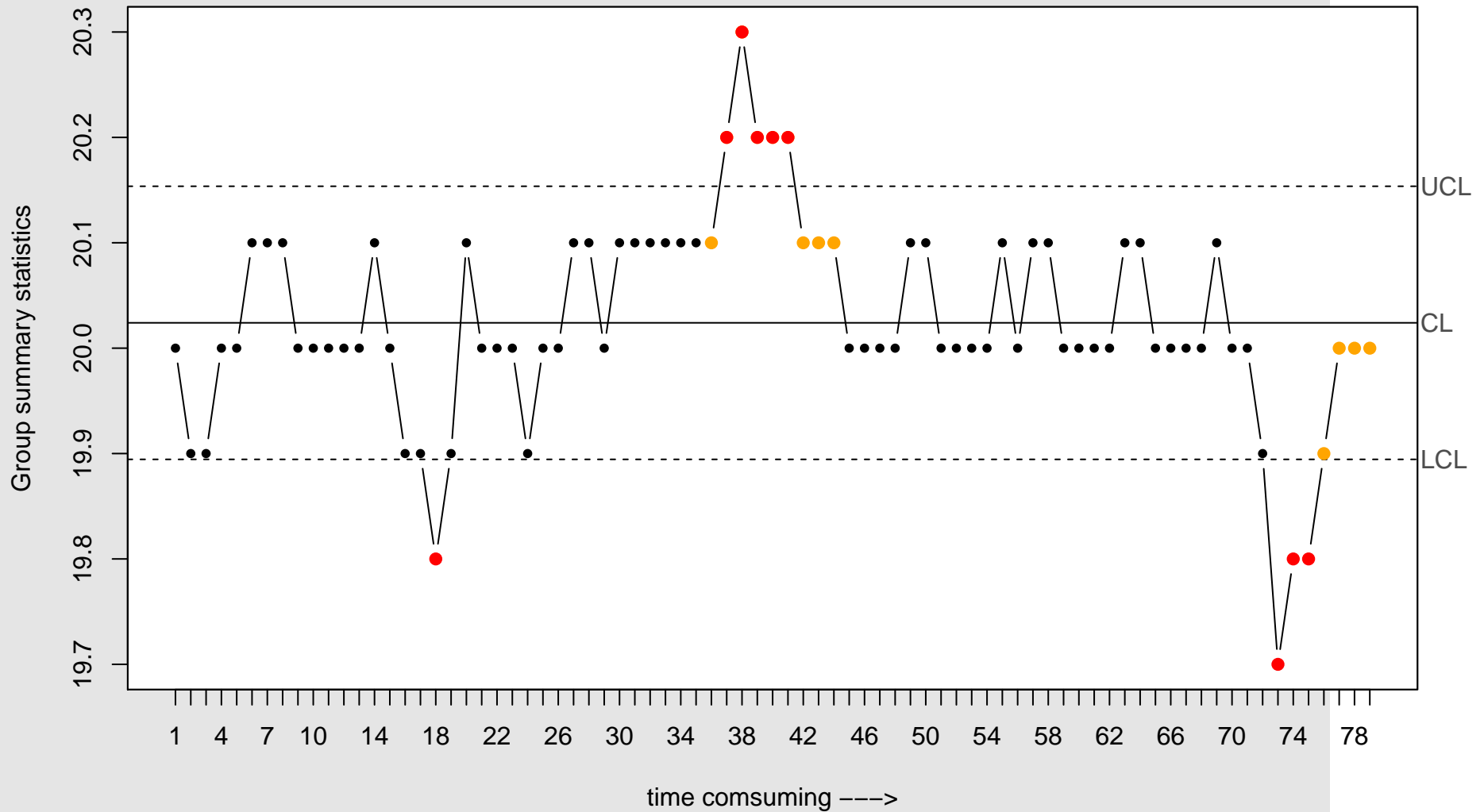
LCL = 19.96314

UCL = 20.16091

Number beyond limits = 31

Number violating runs = 31

211th column point of this product

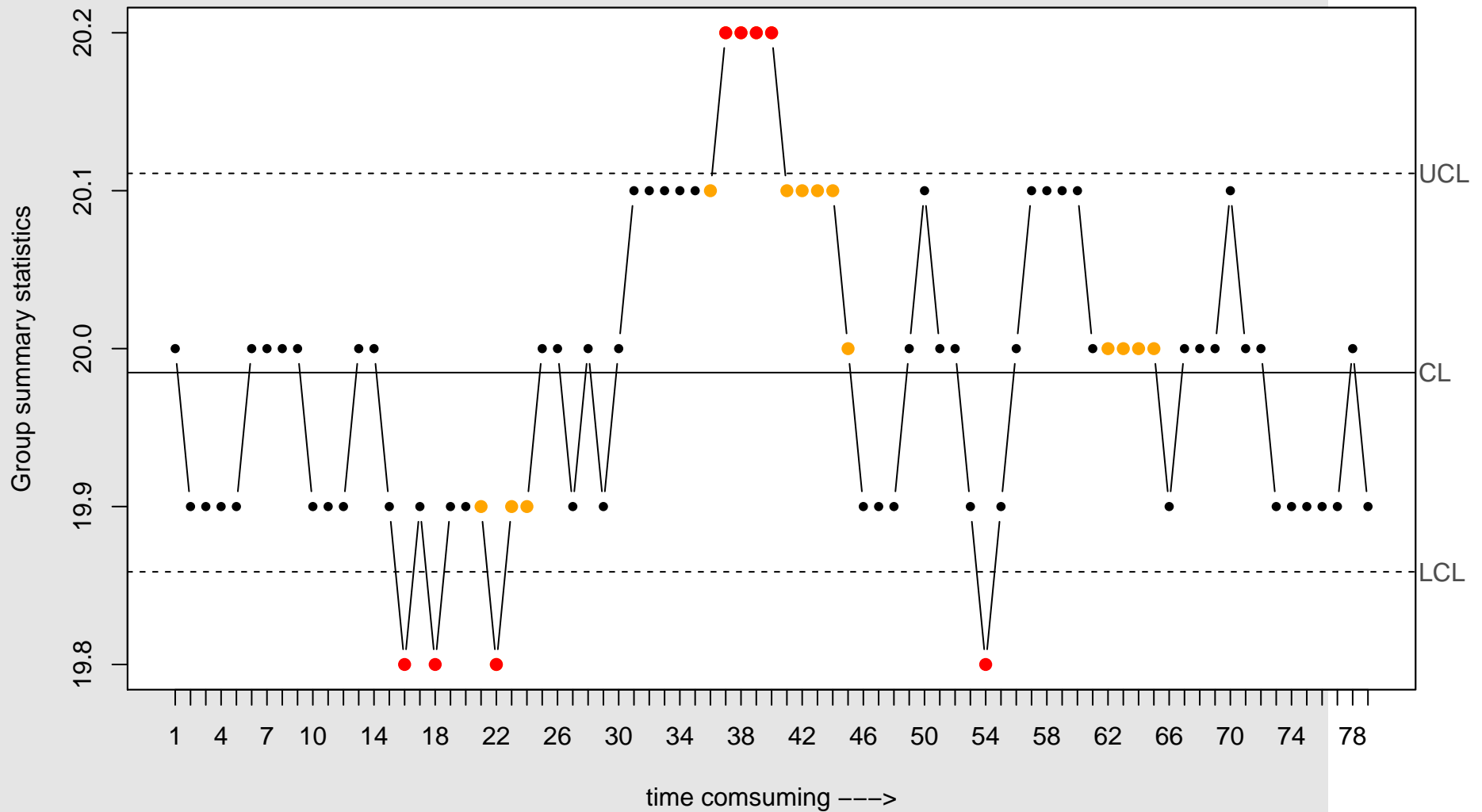


Number of groups = 79
 Center = 20.02405
 StdDev = 0.04318967

LCL = 19.89448
 UCL = 20.15362

Number beyond limits = 9
 Number violating runs = 13

212th column point of this product

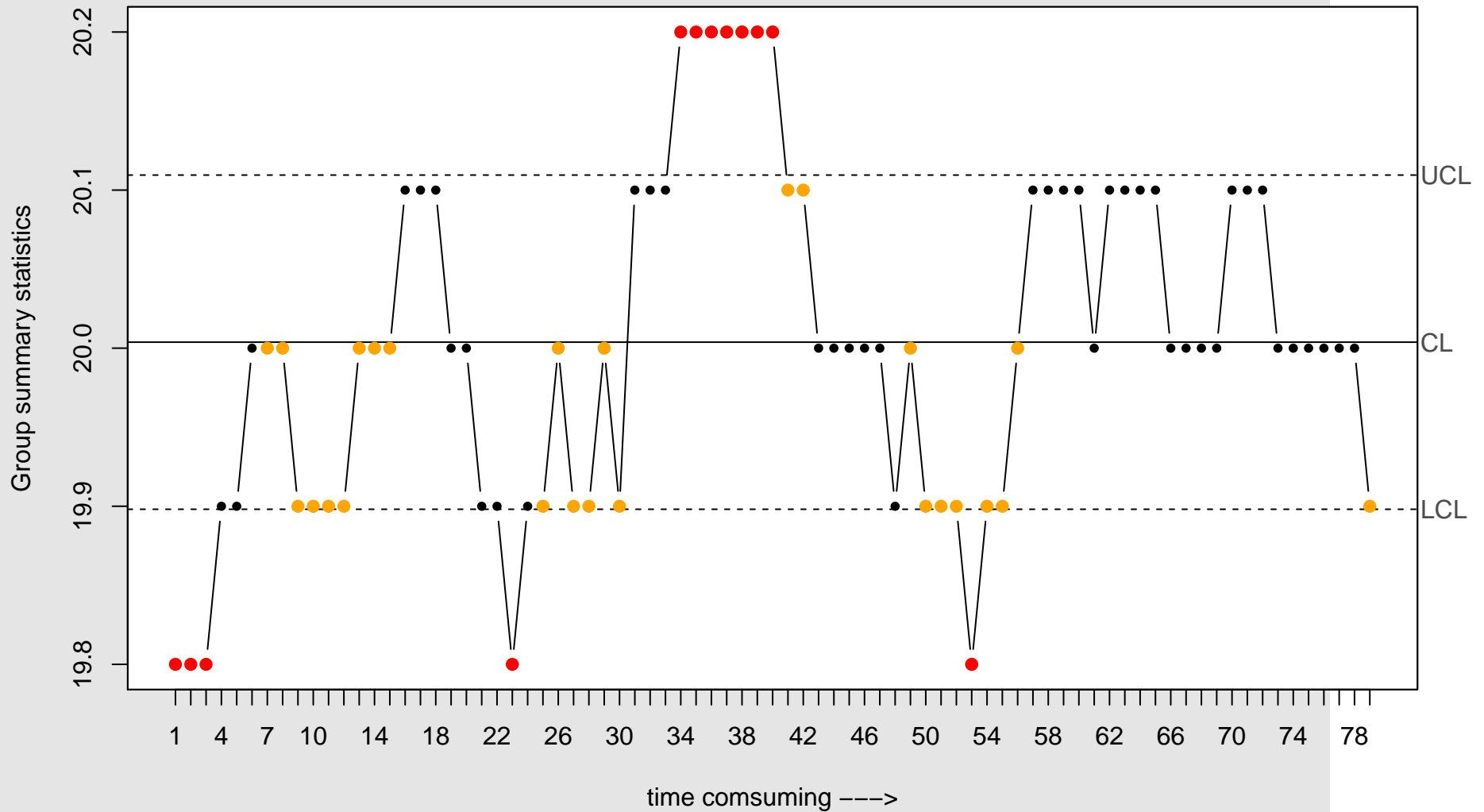


Number of groups = 79
 Center = 19.98481
 StdDev = 0.0420531

LCL = 19.85865
 UCL = 20.11097

Number beyond limits = 8
 Number violating runs = 18

213th column point of this product

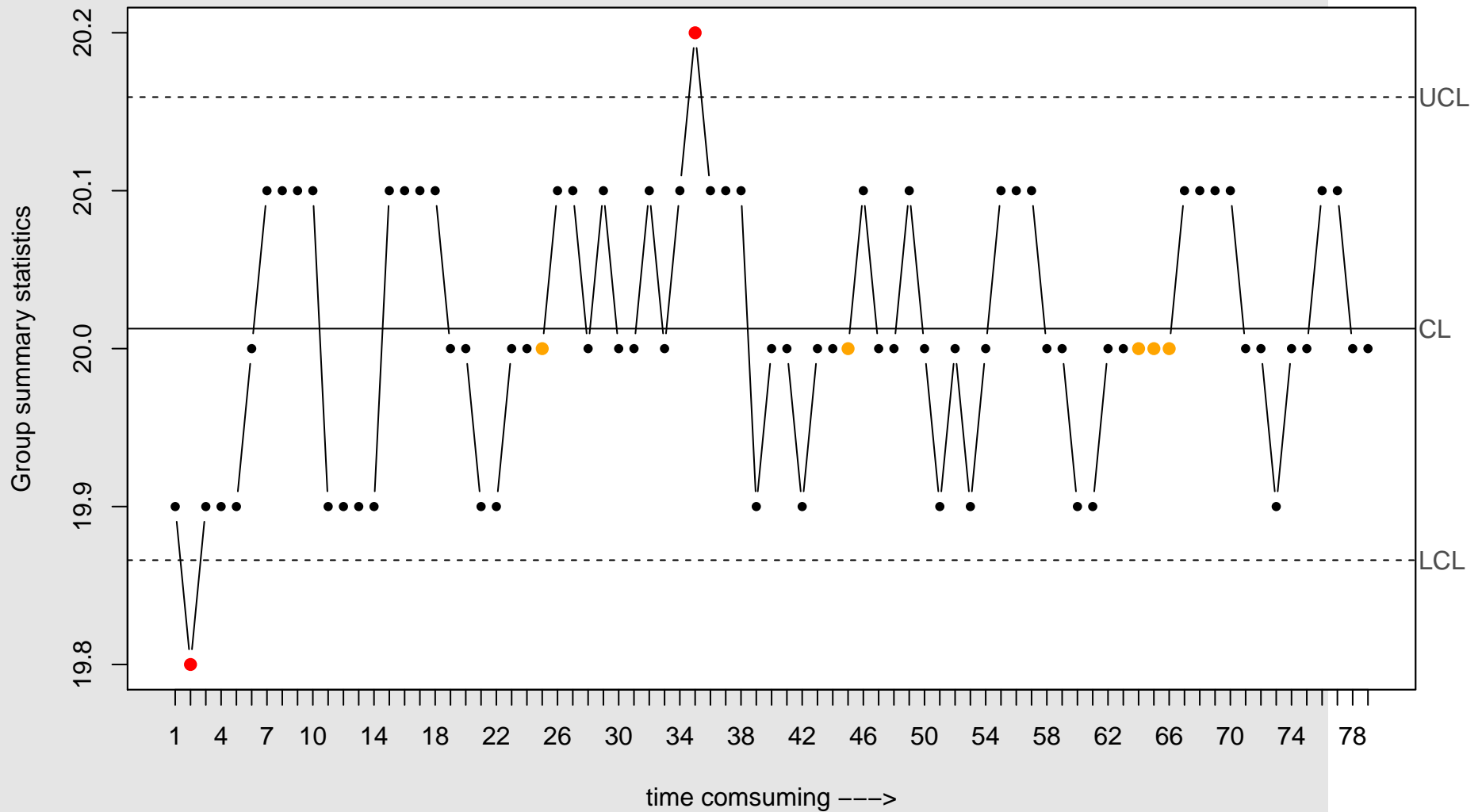


Number of groups = 79
 Center = 20.0038
 StdDev = 0.03523368

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

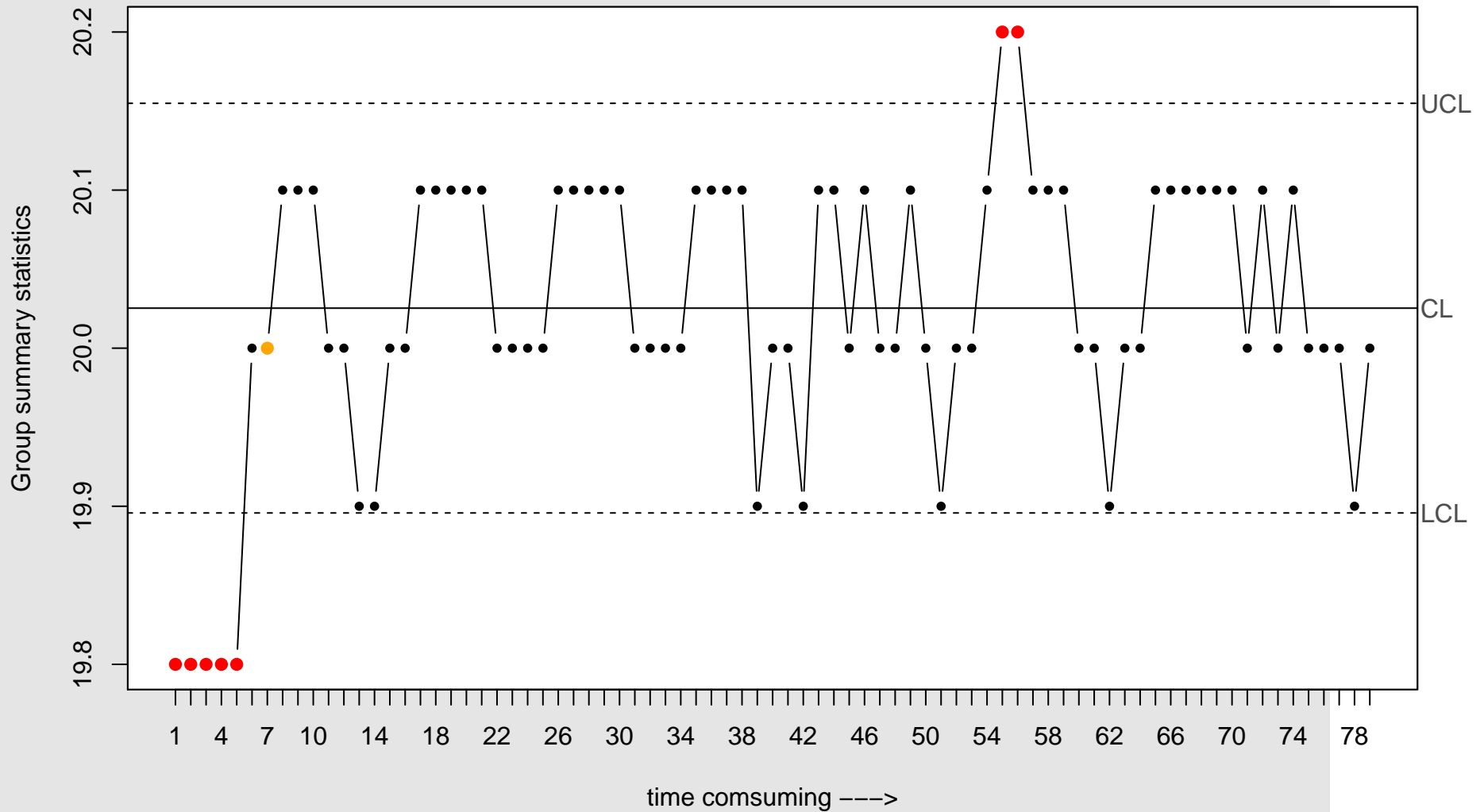
LCL = 19.86604

UCL = 20.15928

Number beyond limits = 2

Number violating runs = 5

215th column point of this product

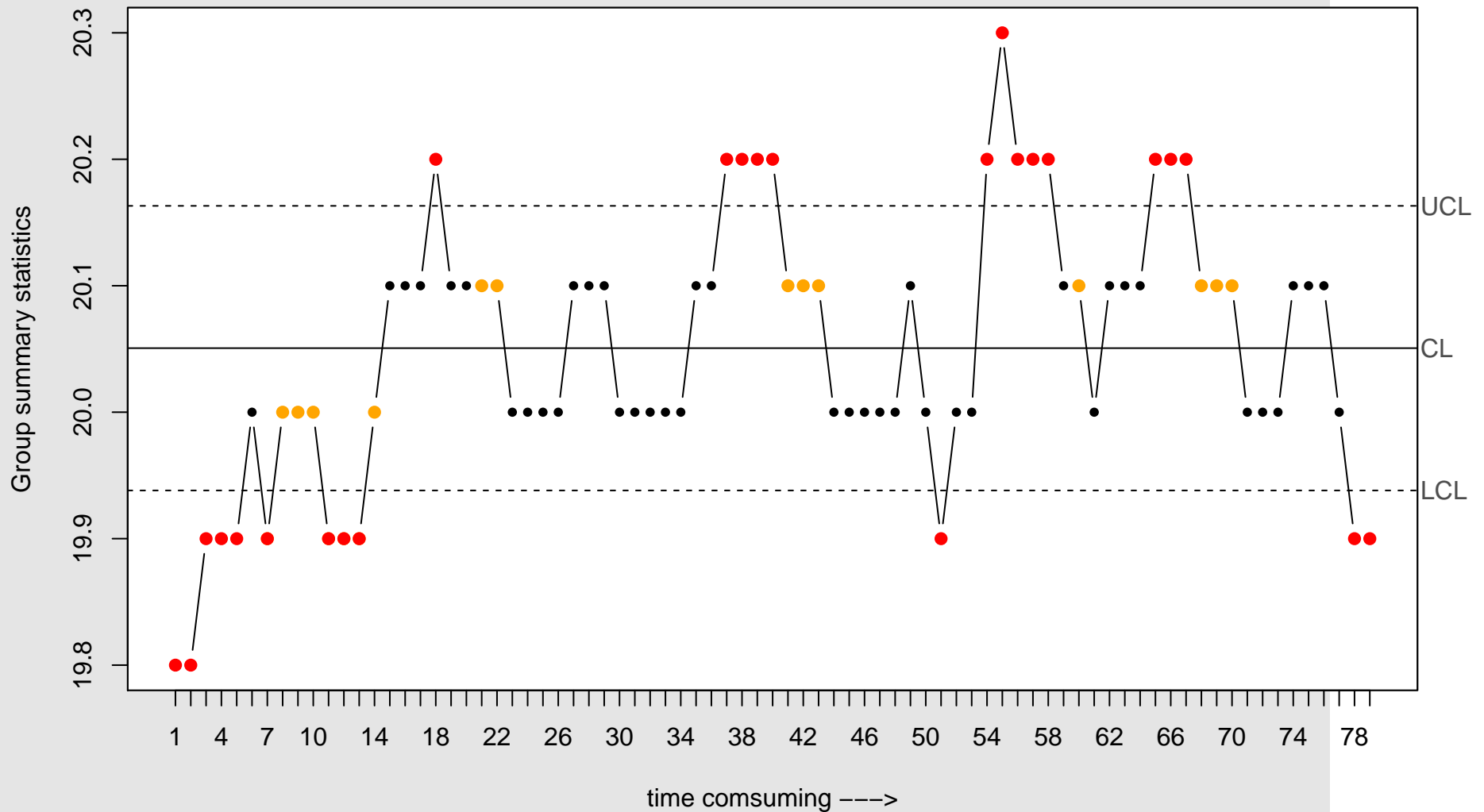


Number of groups = 79
 Center = 20.02532
 StdDev = 0.04318967

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

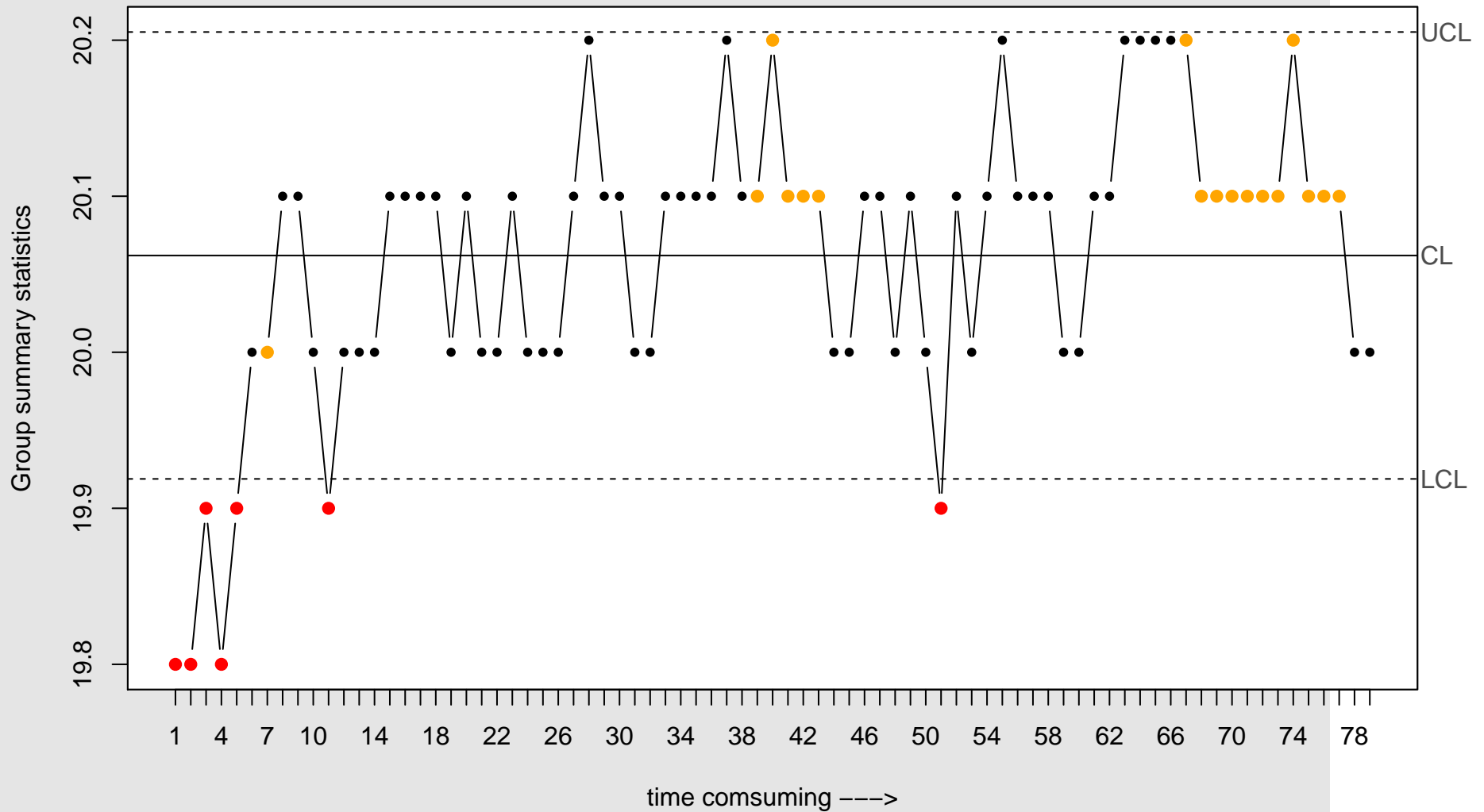
LCL = 19.93811

UCL = 20.16315

Number beyond limits = 25

Number violating runs = 17

217th column point of this product

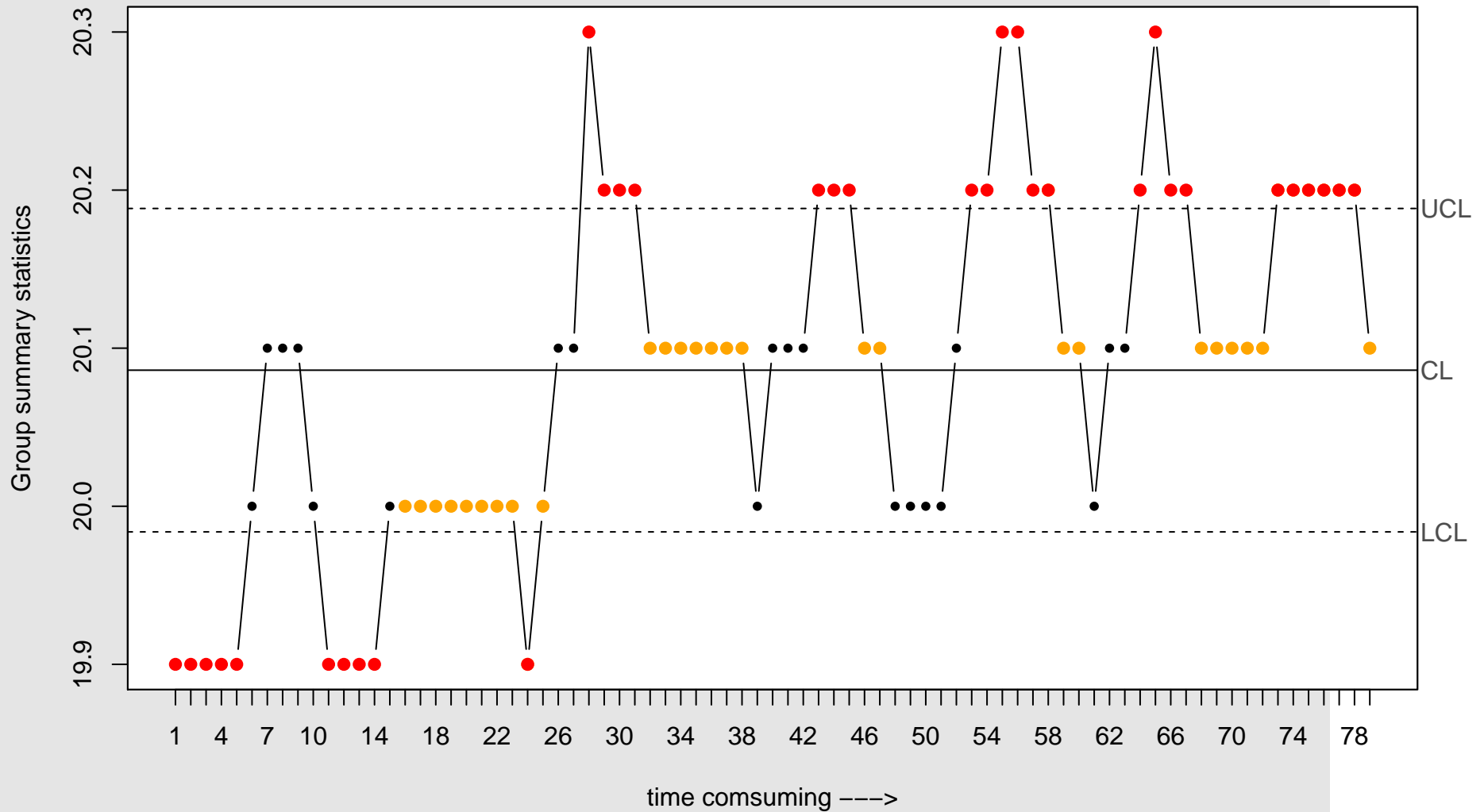


Number of groups = 79
 Center = 20.06203
 StdDev = 0.04773595

LCL = 19.91882
 UCL = 20.20523

Number beyond limits = 7
 Number violating runs = 17

218th column point of this product

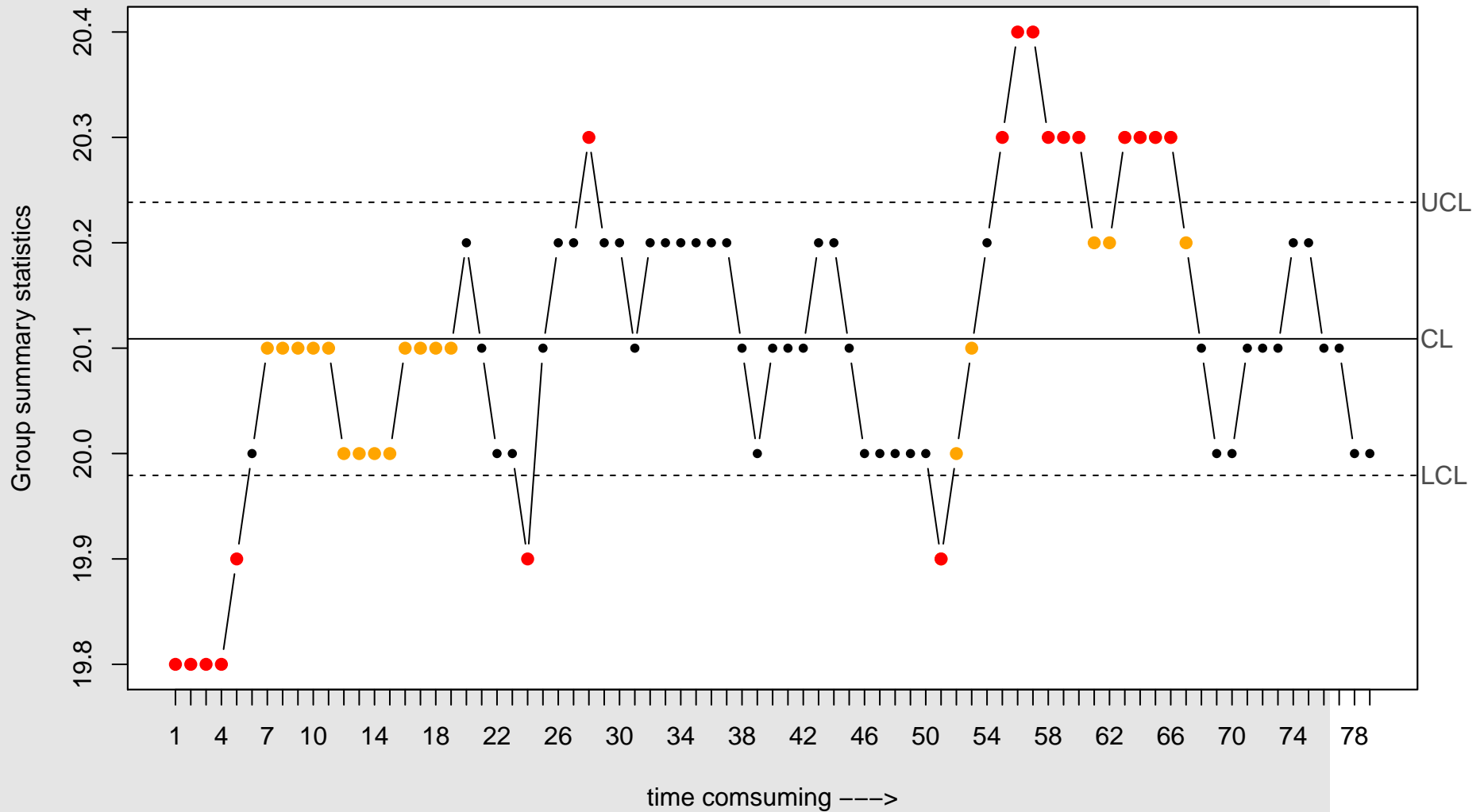


Number of groups = 79
 Center = 20.08608
 StdDev = 0.03409711

LCL = 19.98378
 UCL = 20.18837

Number beyond limits = 33
 Number violating runs = 34

219th column point of this product

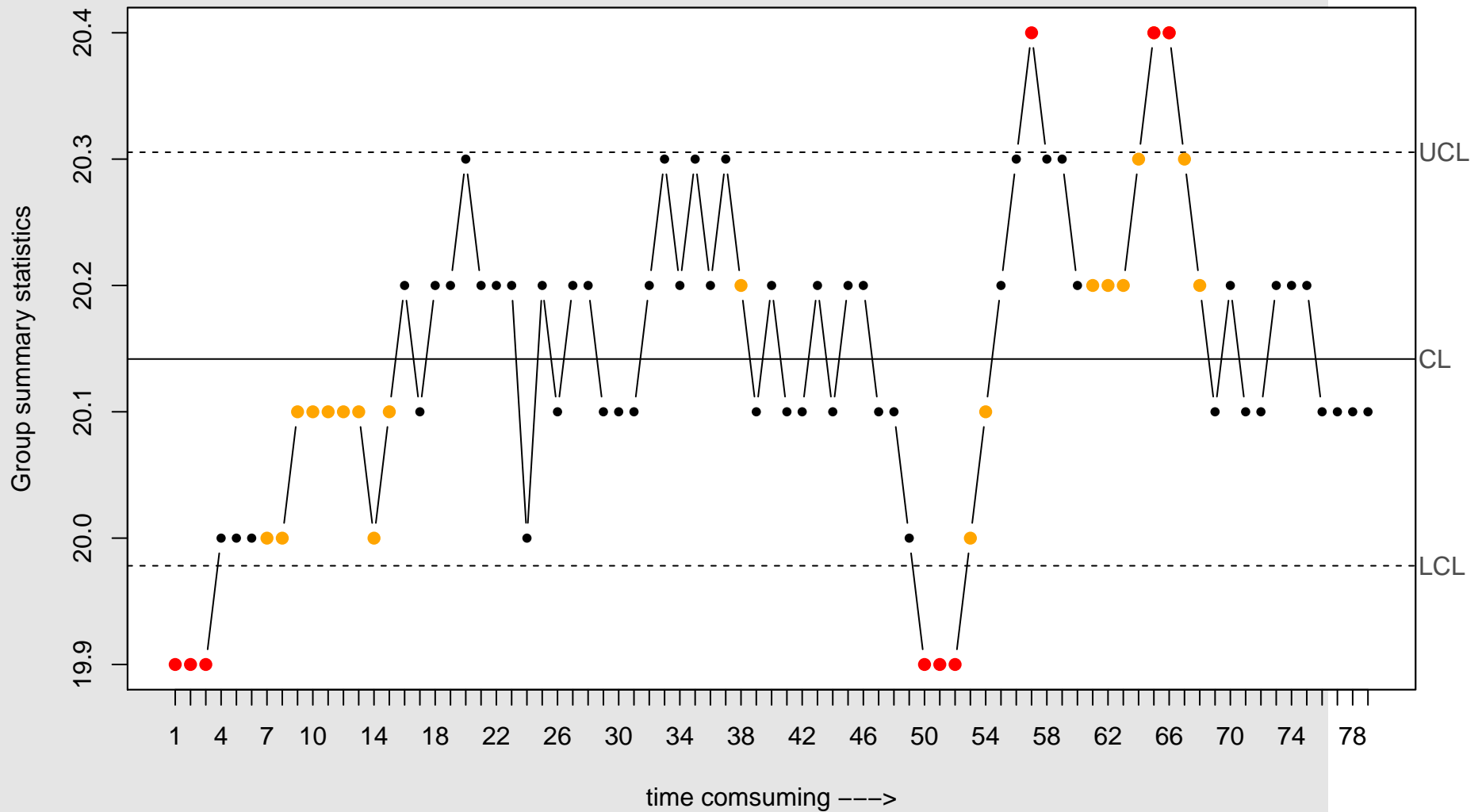


Number of groups = 79
 Center = 20.10886
 StdDev = 0.04318967

LCL = 19.97929
 UCL = 20.23843

Number beyond limits = 18
 Number violating runs = 24

220th column point of this product

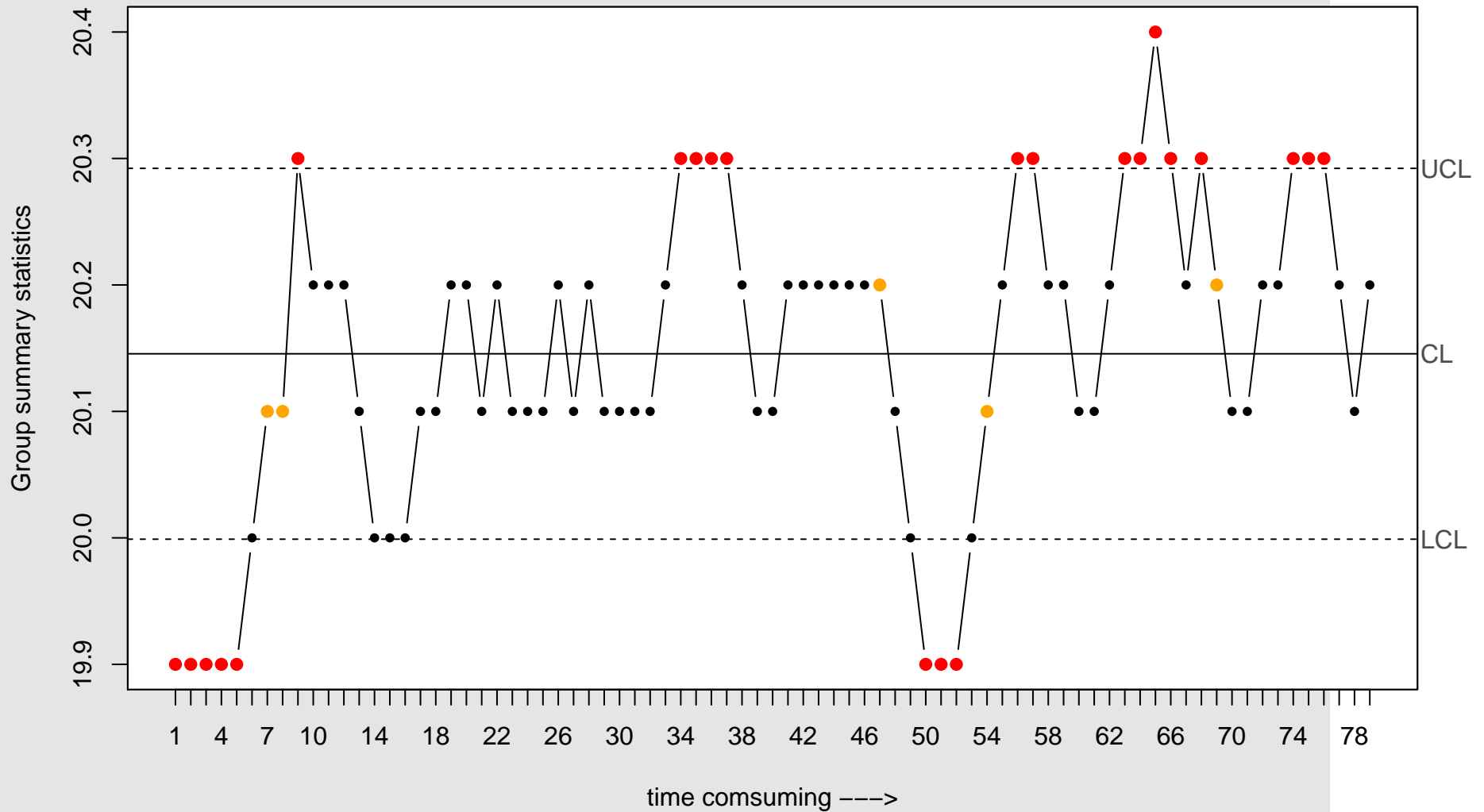


Number of groups = 79
 Center = 20.14177
 StdDev = 0.05455537

LCL = 19.97811
 UCL = 20.30544

Number beyond limits = 9
 Number violating runs = 20

221th column point of this product

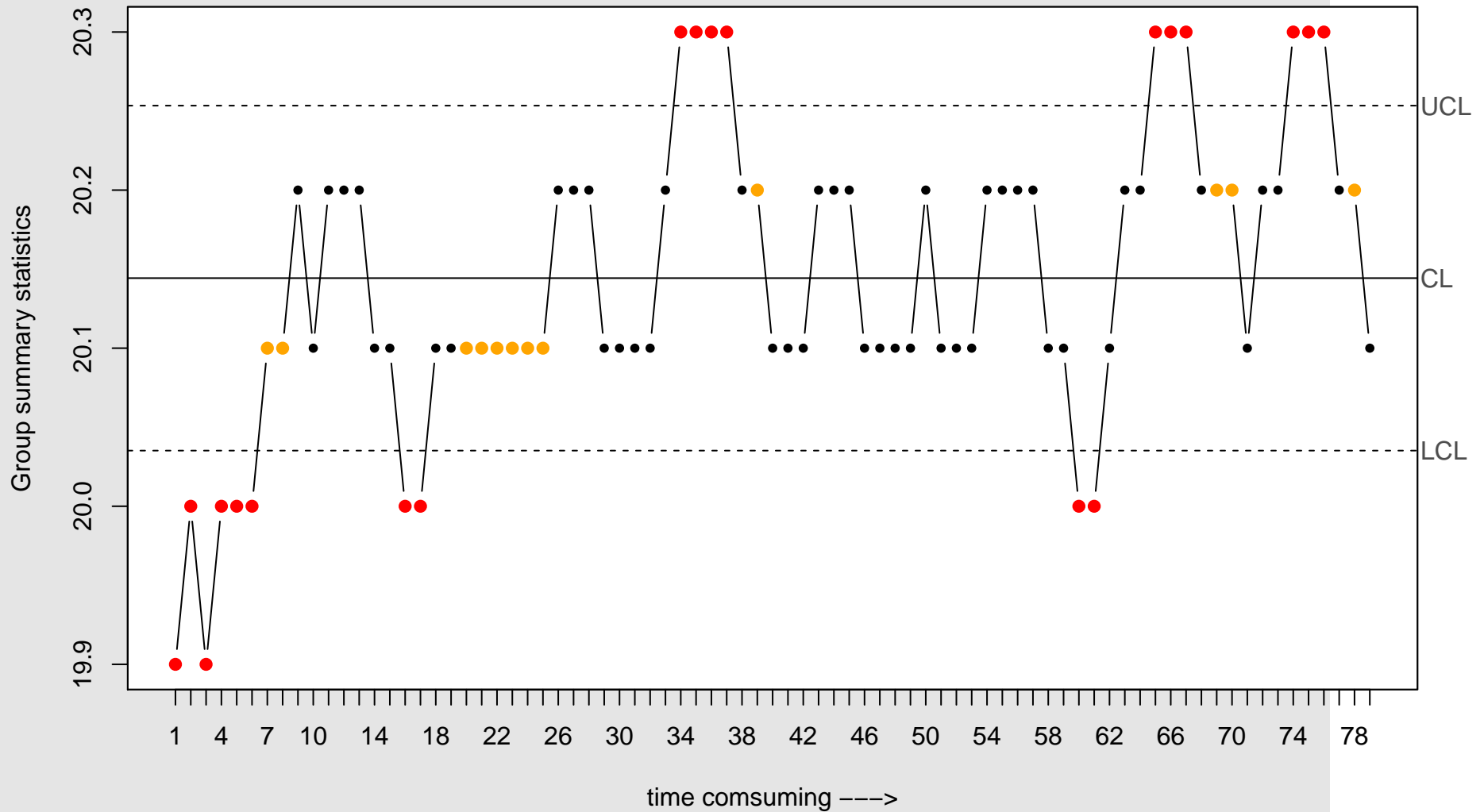


Number of groups = 79
 Center = 20.14557
 StdDev = 0.04887252

LCL = 19.99895
 UCL = 20.29219

Number beyond limits = 23
 Number violating runs = 6

222th column point of this product

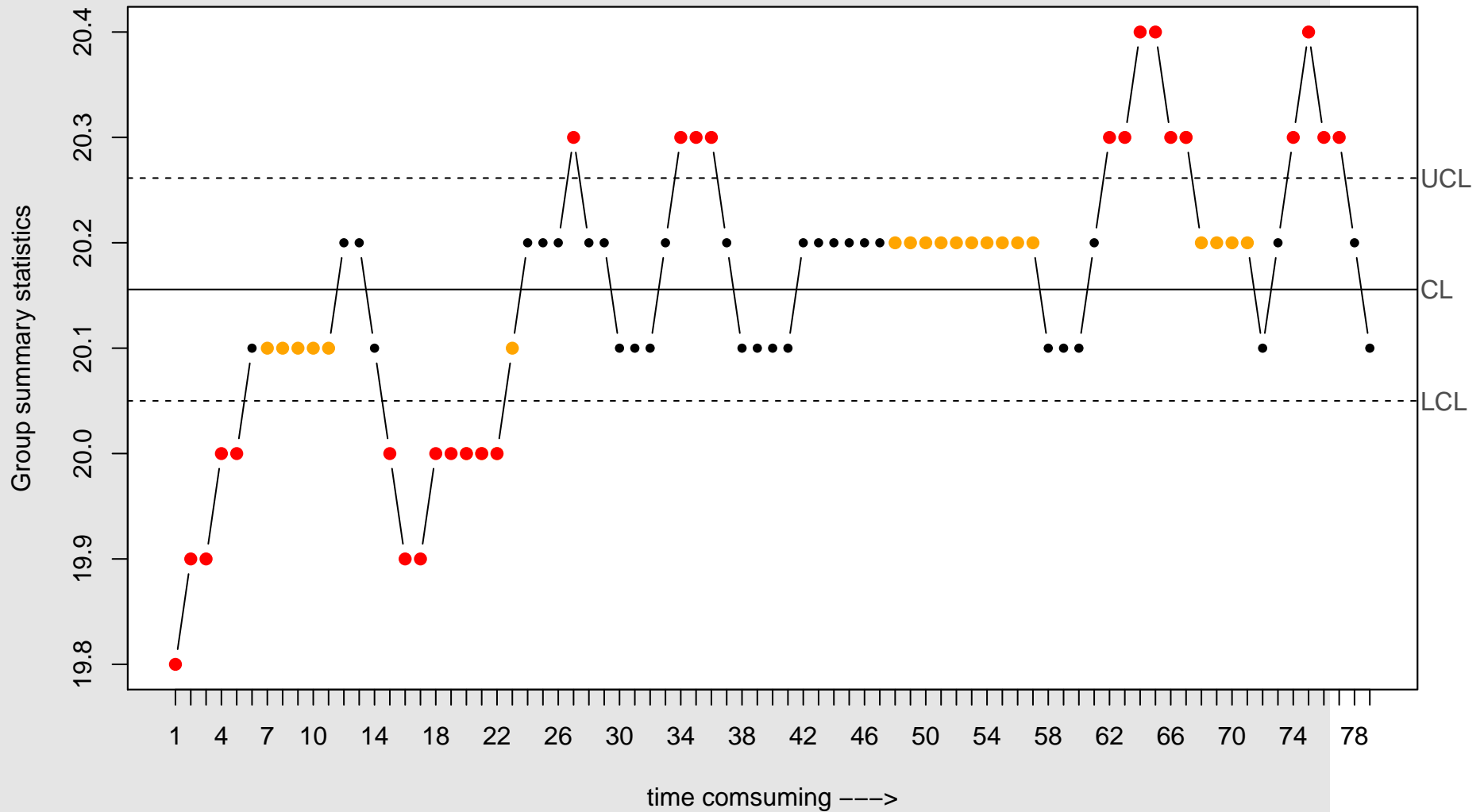


Number of groups = 79
 Center = 20.1443
 StdDev = 0.03637025

LCL = 20.03519
 UCL = 20.25341

Number beyond limits = 20
 Number violating runs = 12

223th column point of this product

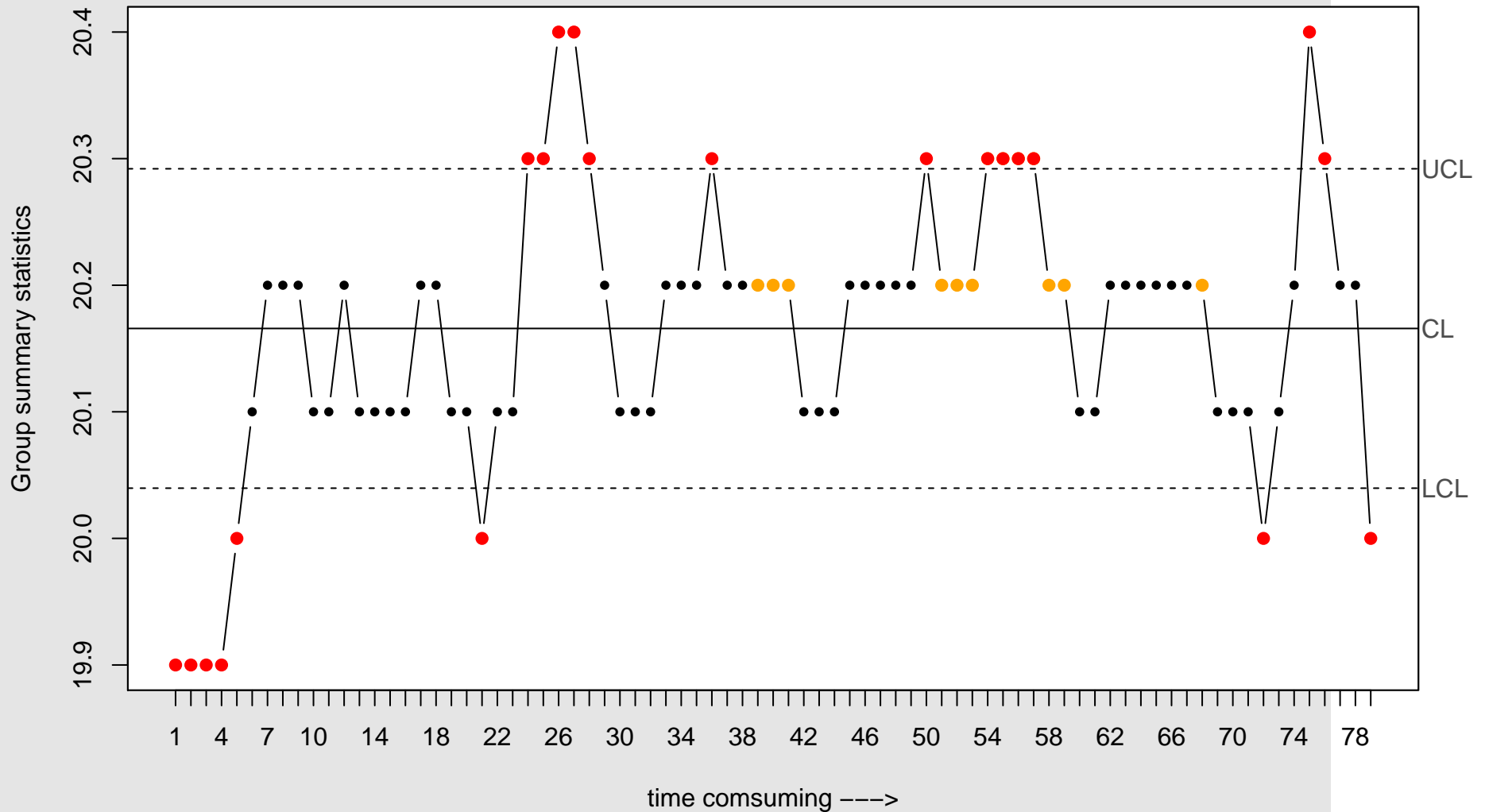


Number of groups = 79
 Center = 20.1557
 StdDev = 0.03523368

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

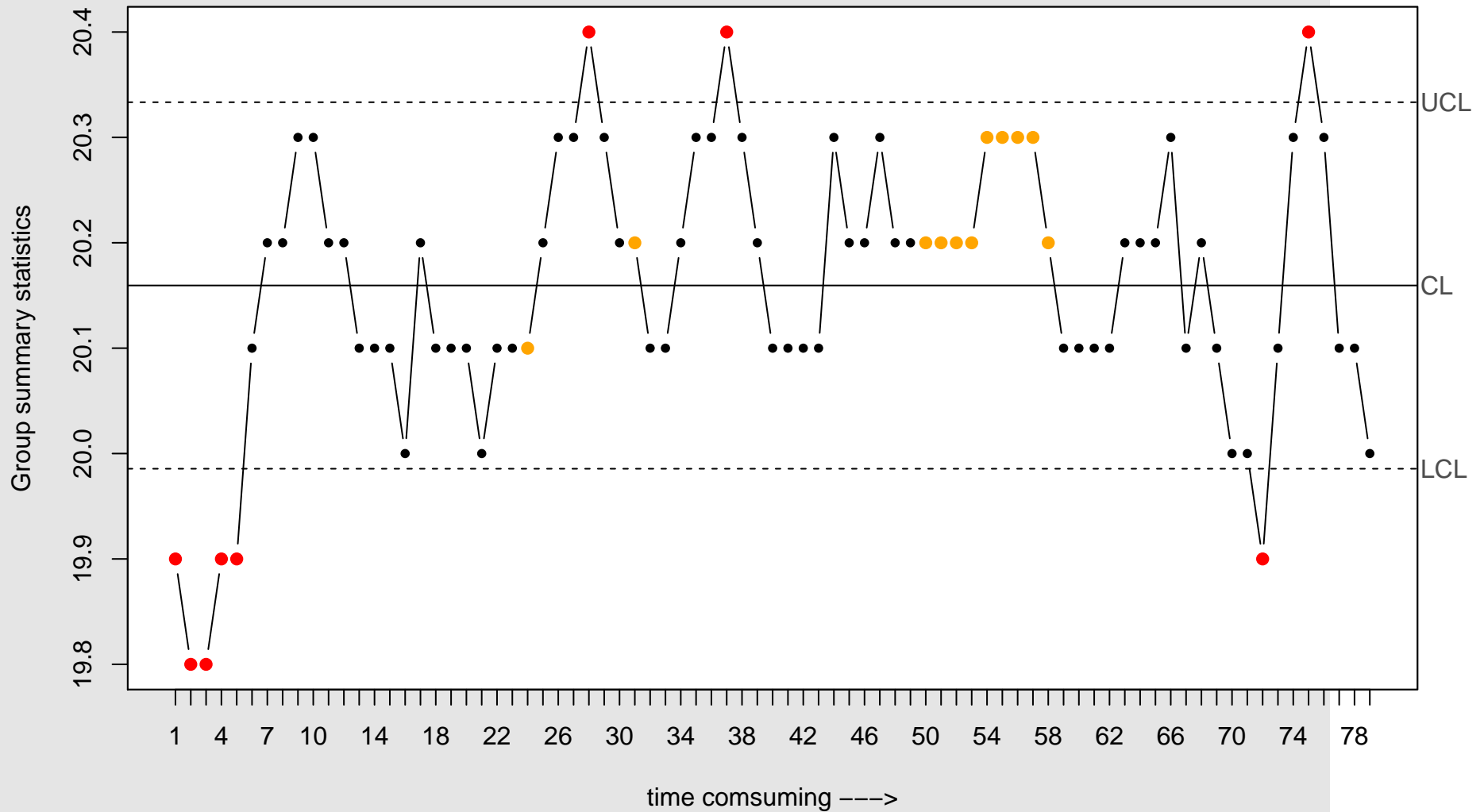
LCL = 20.03966

UCL = 20.29198

Number beyond limits = 21

Number violating runs = 13

225th column point of this product

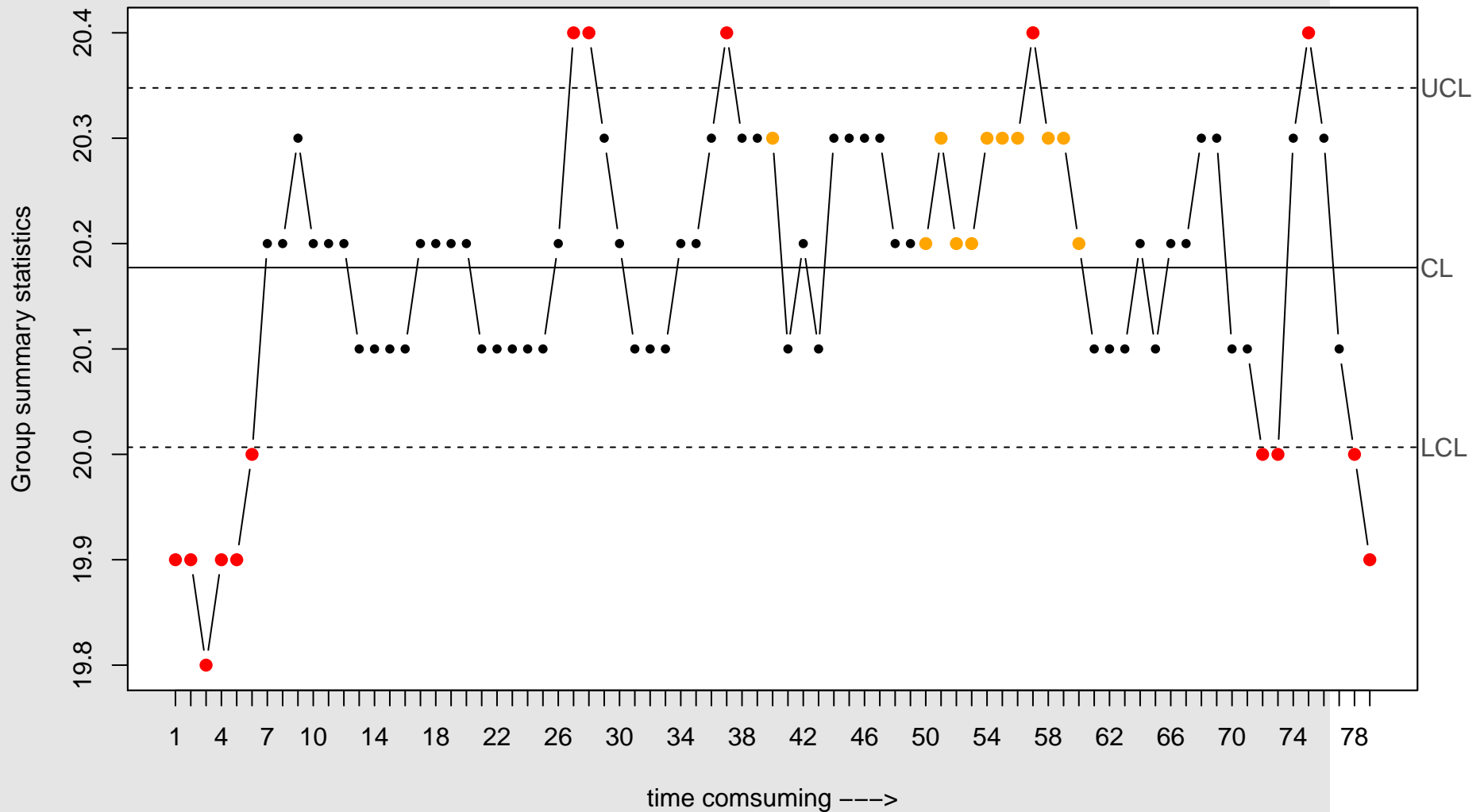


Number of groups = 79
 Center = 20.15949
 StdDev = 0.05796508

LCL = 19.9856
 UCL = 20.33339

Number beyond limits = 9
 Number violating runs = 11

226th column point of this product

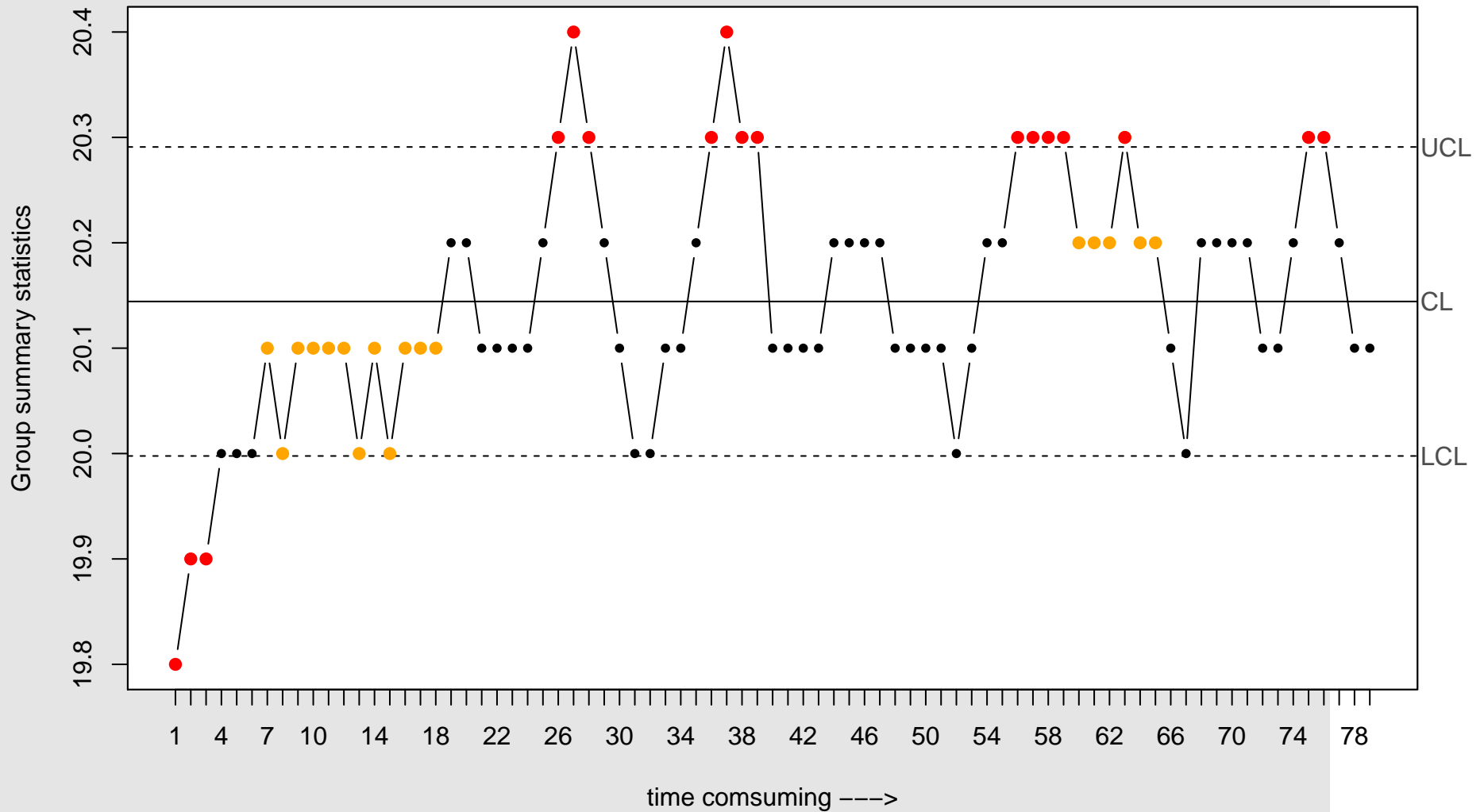


Number of groups = 79
 Center = 20.17722
 StdDev = 0.05682851

LCL = 20.00673
 UCL = 20.3477

Number beyond limits = 15
 Number violating runs = 12

227th column point of this product

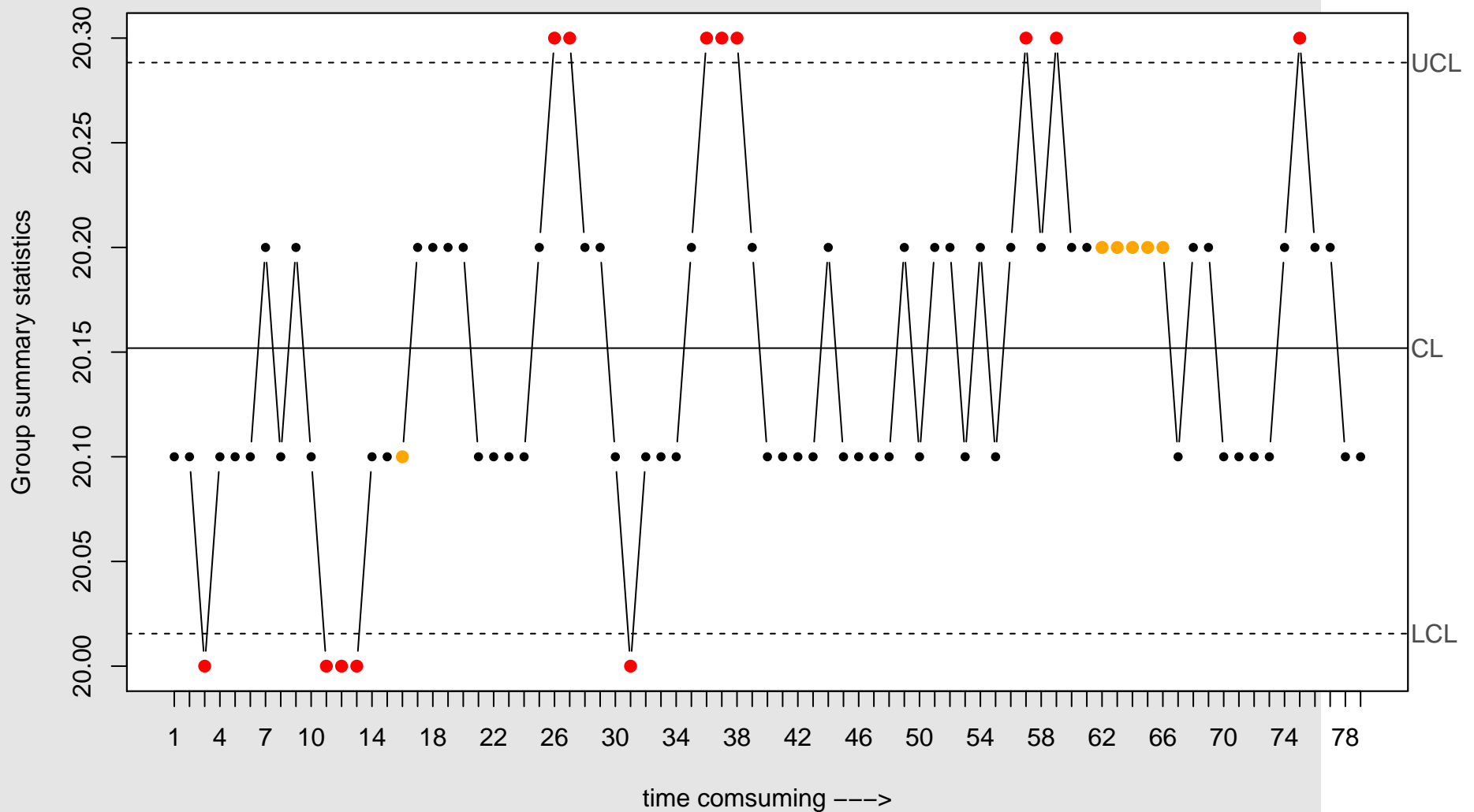


Number of groups = 79
 Center = 20.1443
 StdDev = 0.04887252

LCL = 19.99769
 UCL = 20.29092

Number beyond limits = 17
 Number violating runs = 18

228th column point of this product

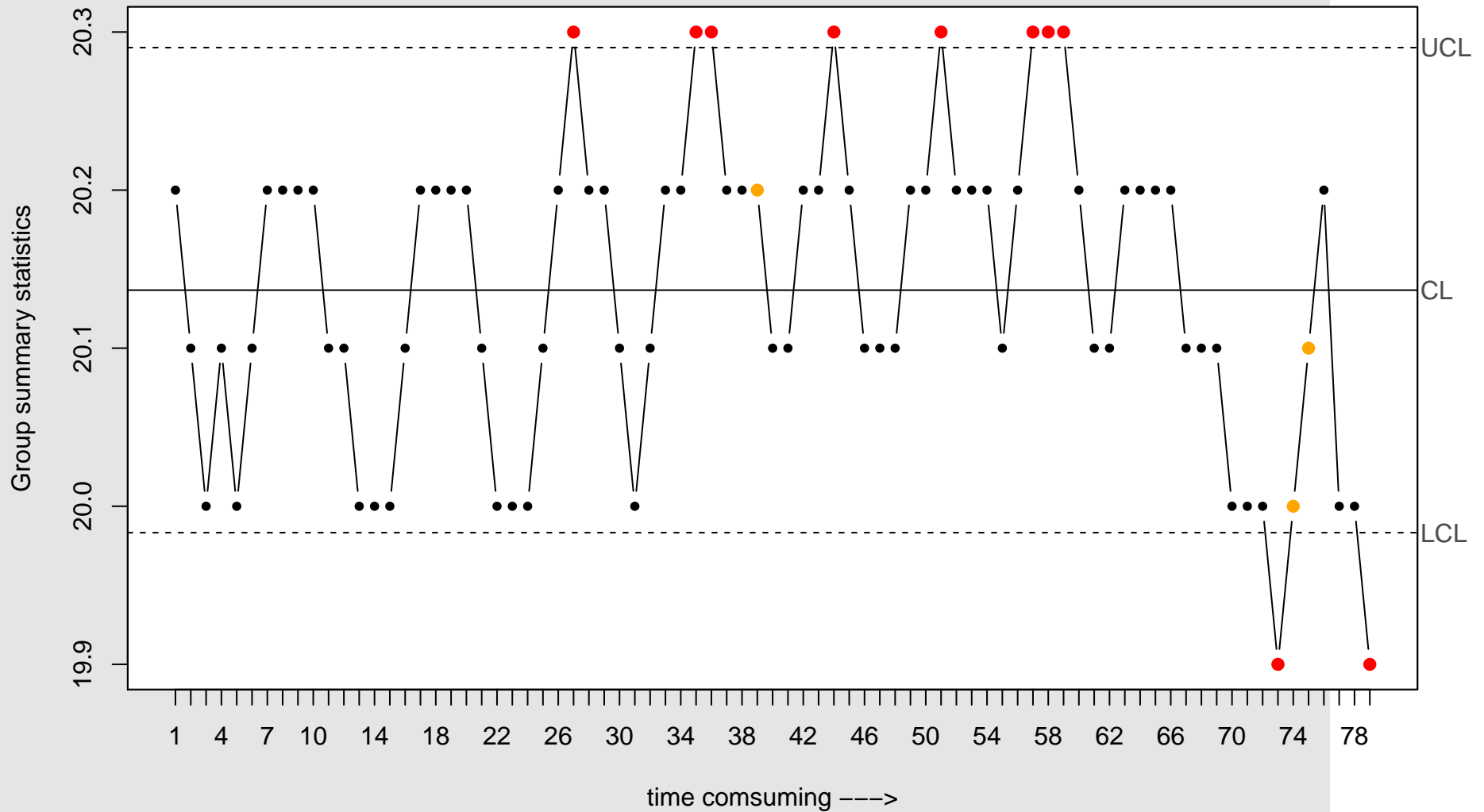


Number of groups = 79
 Center = 20.1519
 StdDev = 0.04546281

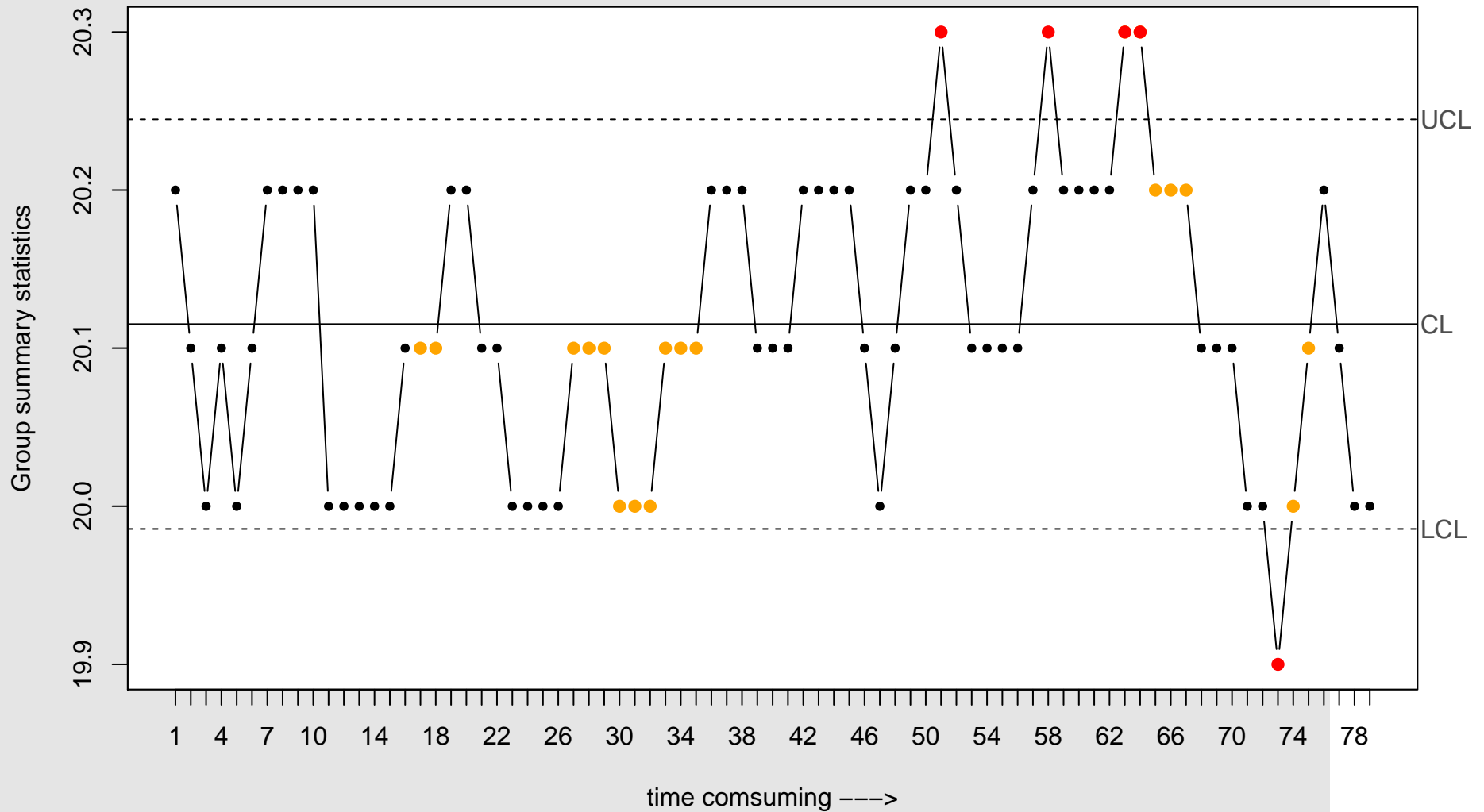
LCL = 20.01551
 UCL = 20.28829

Number beyond limits = 13
 Number violating runs = 6

229th column point of this product



230th column point of this product



Number of groups = 79

Center = 20.11519

StdDev = 0.04318967

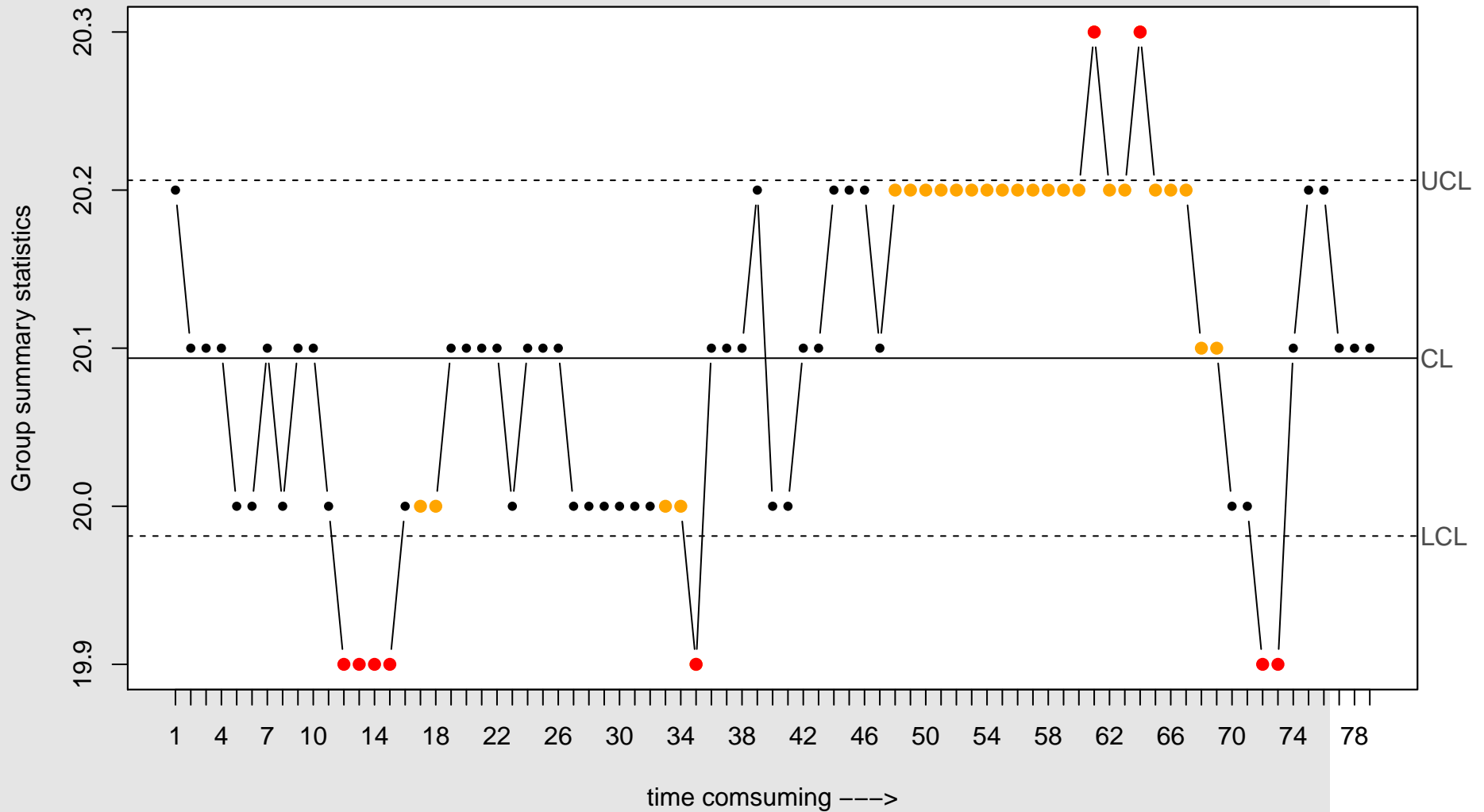
LCL = 19.98562

UCL = 20.24476

Number beyond limits = 5

Number violating runs = 18

231th column point of this product

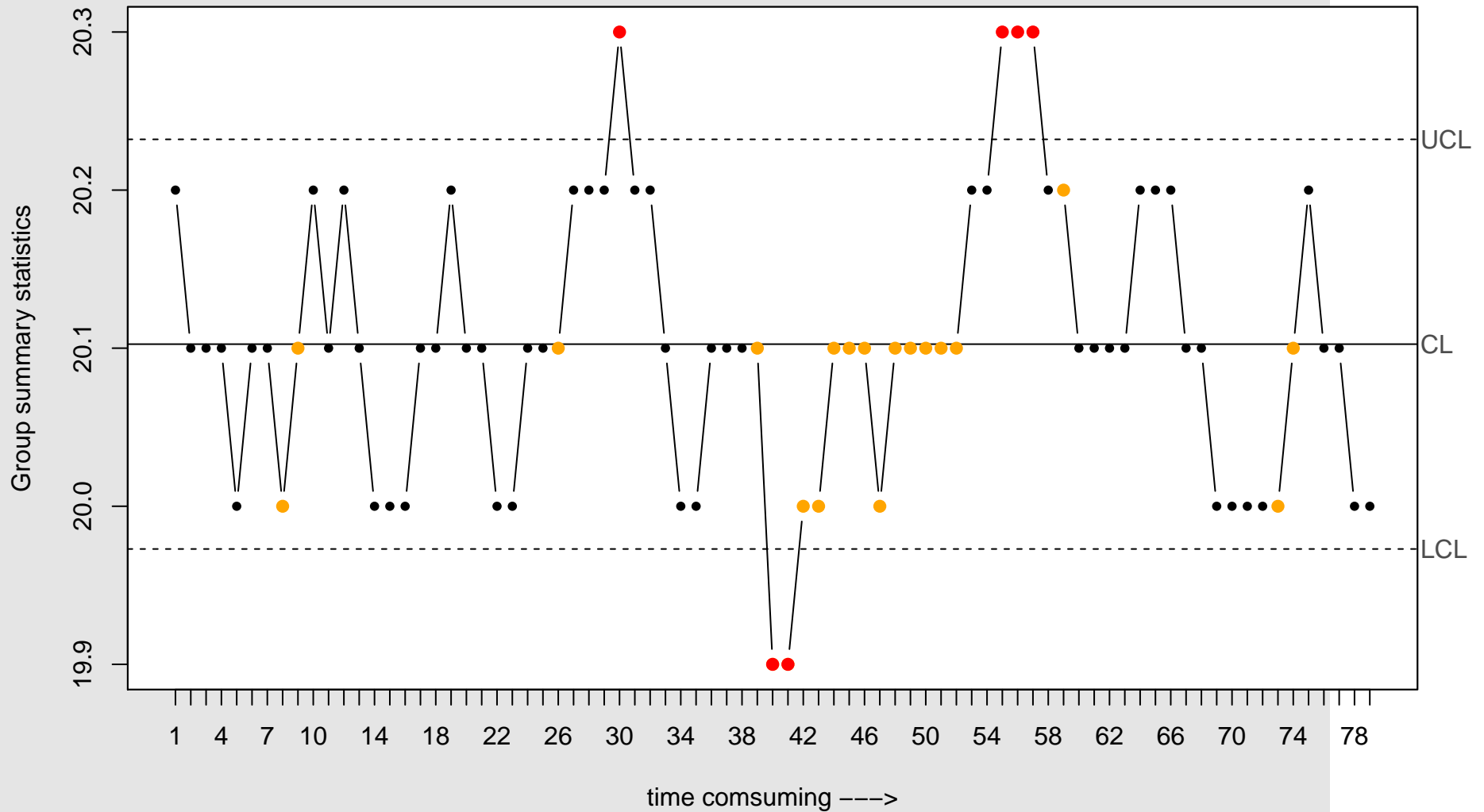


Number of groups = 79
 Center = 20.09367
 StdDev = 0.03750682

LCL = 19.98115
 UCL = 20.20619

Number beyond limits = 9
 Number violating runs = 27

232th column point of this product

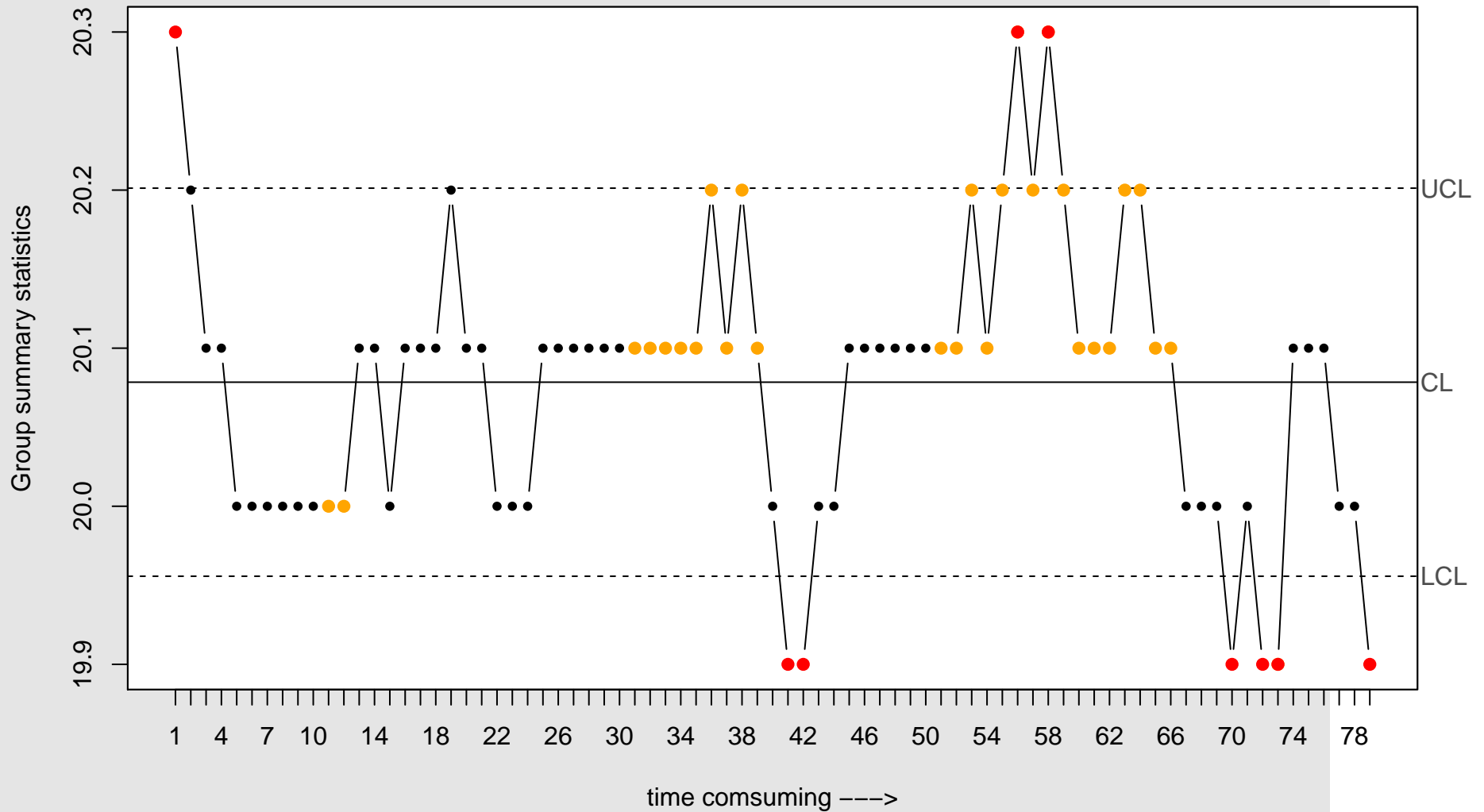


Number of groups = 79
 Center = 20.10253
 StdDev = 0.04318967

LCL = 19.97296
 UCL = 20.2321

Number beyond limits = 6
 Number violating runs = 20

233th column point of this product

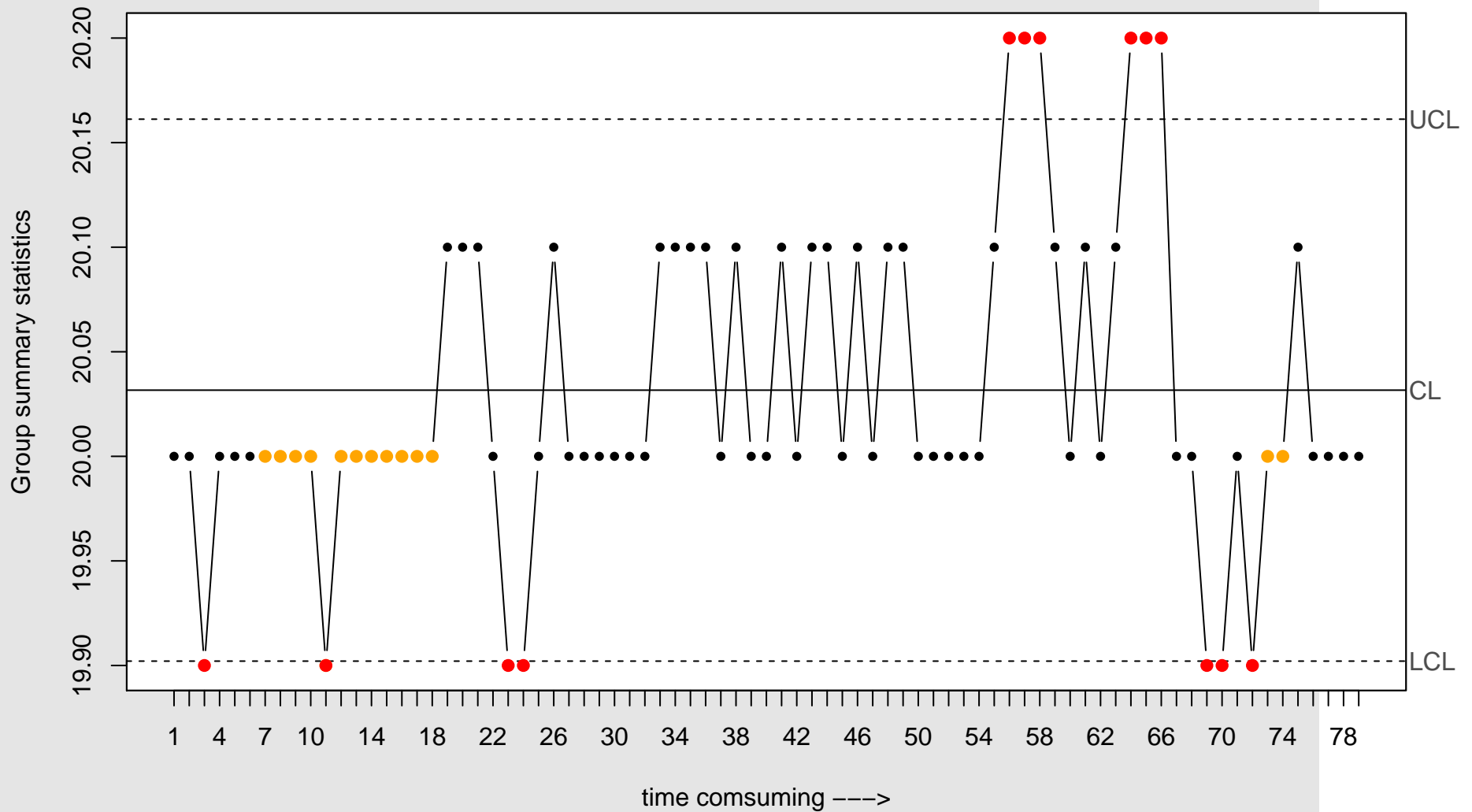


Number of groups = 79
 Center = 20.07848
 StdDev = 0.04091653

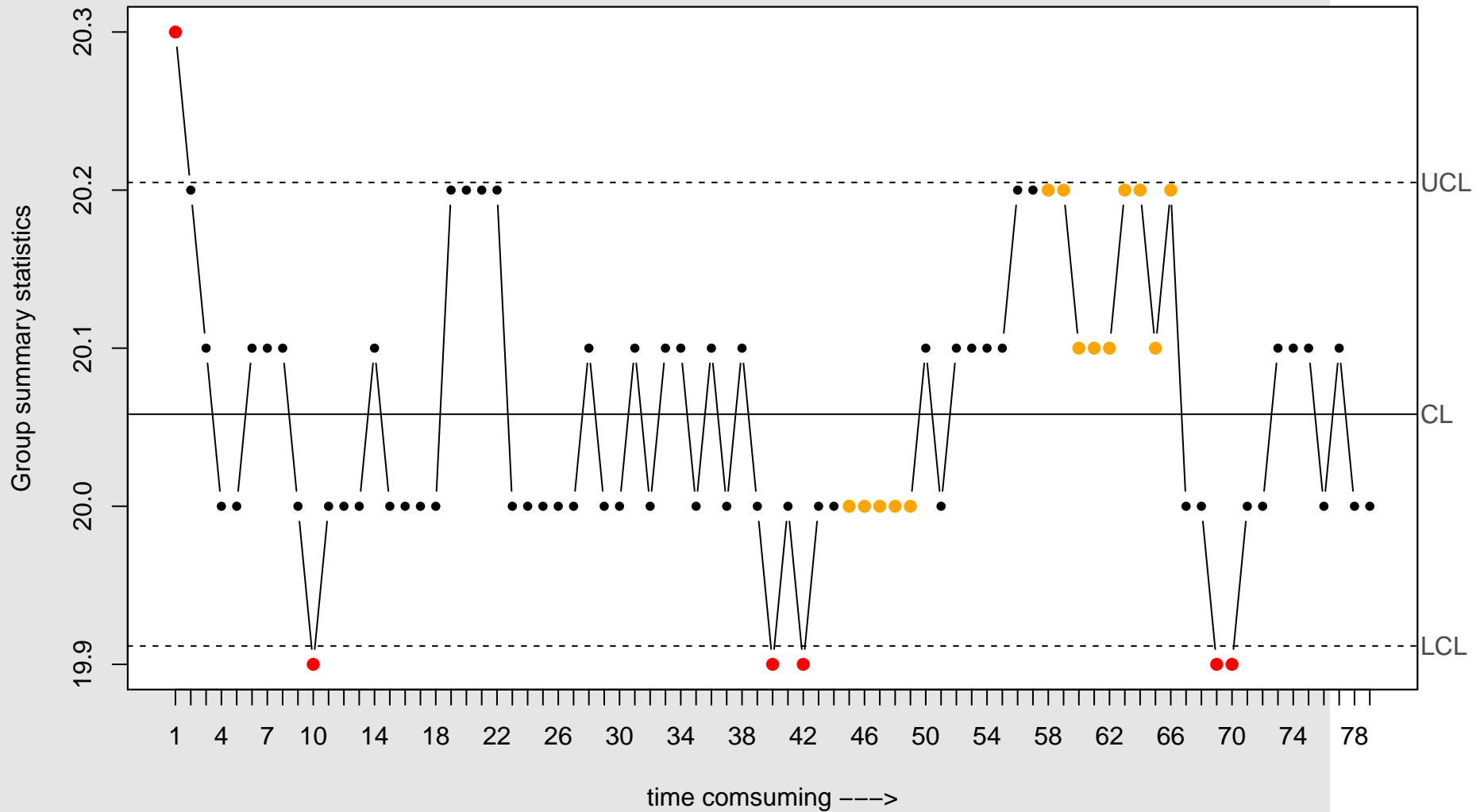
LCL = 19.95573
 UCL = 20.20123

Number beyond limits = 9
 Number violating runs = 28

234th column point of this product



235th column point of this product

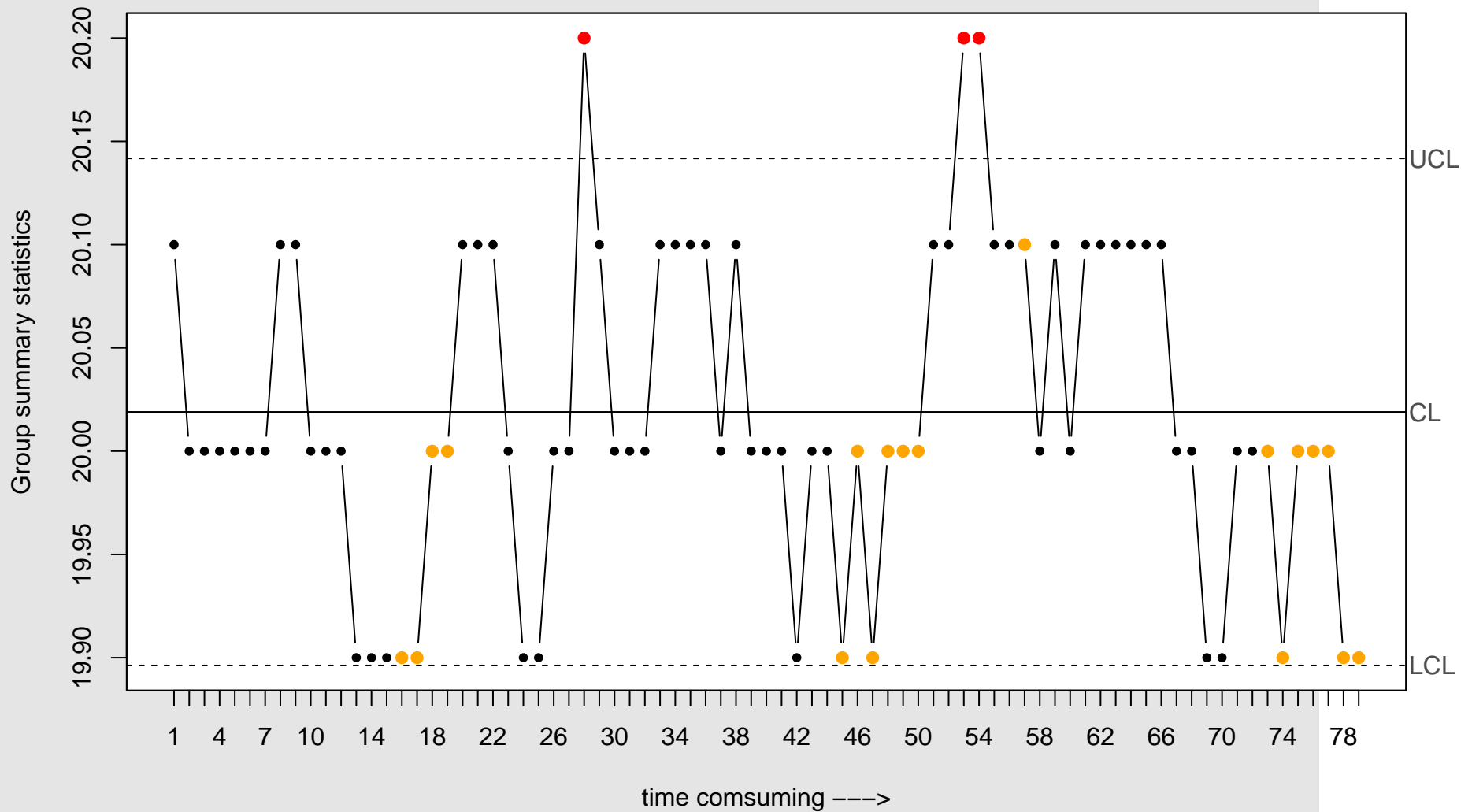


Number of groups = 79
 Center = 20.05823
 StdDev = 0.04887252

LCL = 19.91161
 UCL = 20.20485

Number beyond limits = 6
 Number violating runs = 14

236th column point of this product

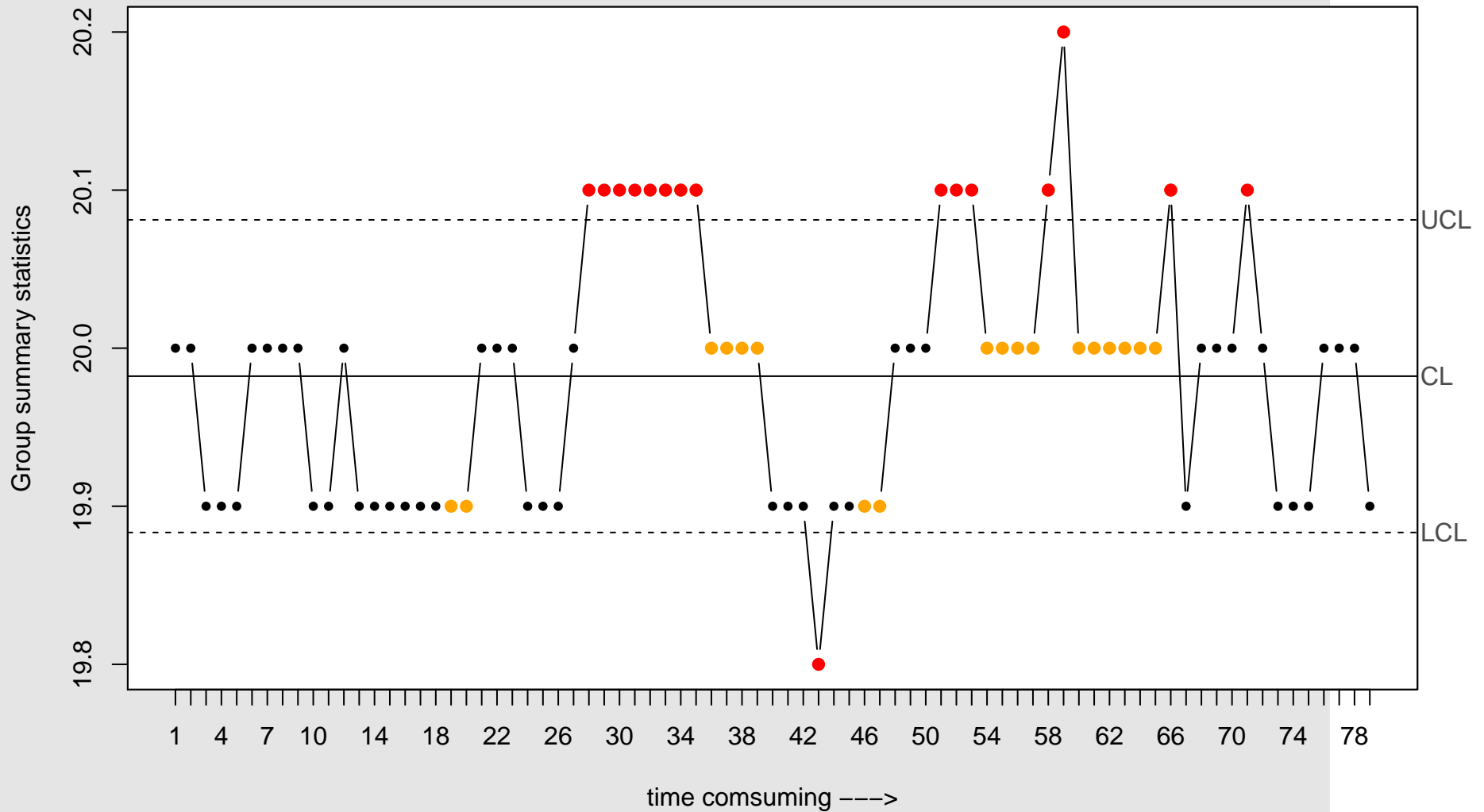


Number of groups = 79
 Center = 20.01899
 StdDev = 0.04091653

LCL = 19.89624
 UCL = 20.14174

Number beyond limits = 3
 Number violating runs = 18

237th column point of this product

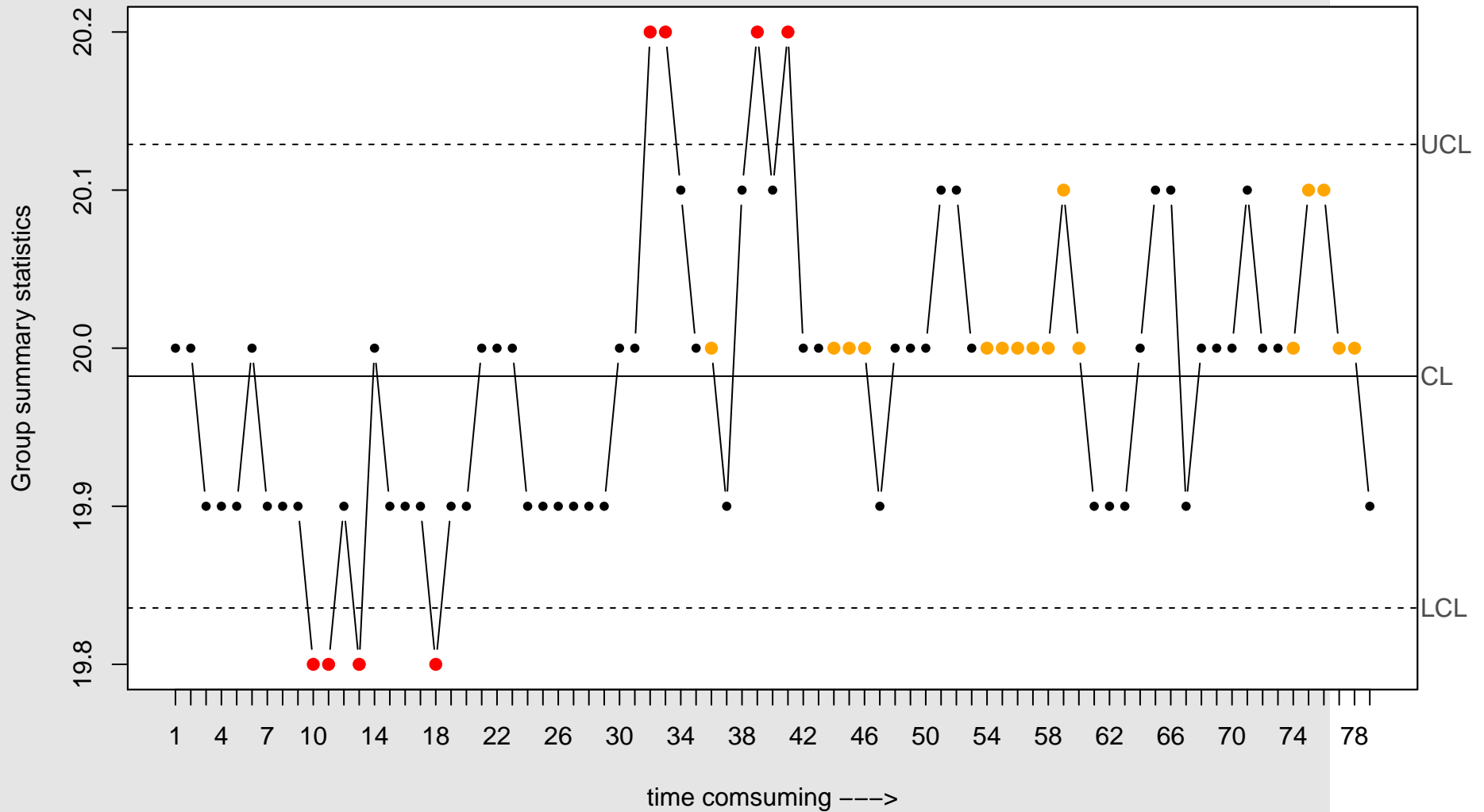


Number of groups = 79
Center = 19.98228
StdDev = 0.03296054

LCL = 19.8834
UCL = 20.08116

Number beyond limits = 16
Number violating runs = 24

238th column point of this product

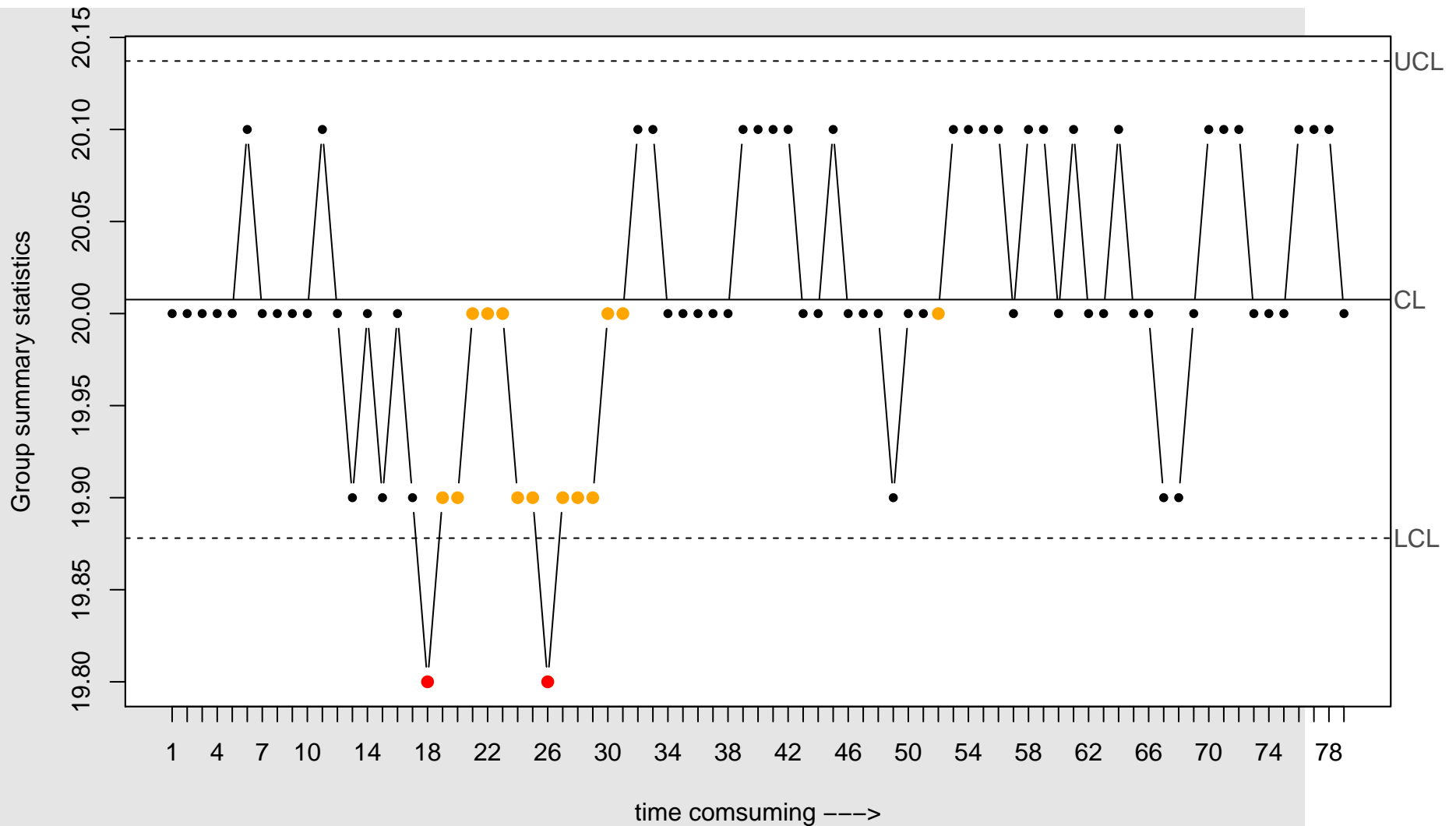


Number of groups = 79
 Center = 19.98228
 StdDev = 0.04887252

LCL = 19.83566
 UCL = 20.1289

Number beyond limits = 8
 Number violating runs = 17

239th column point of this product

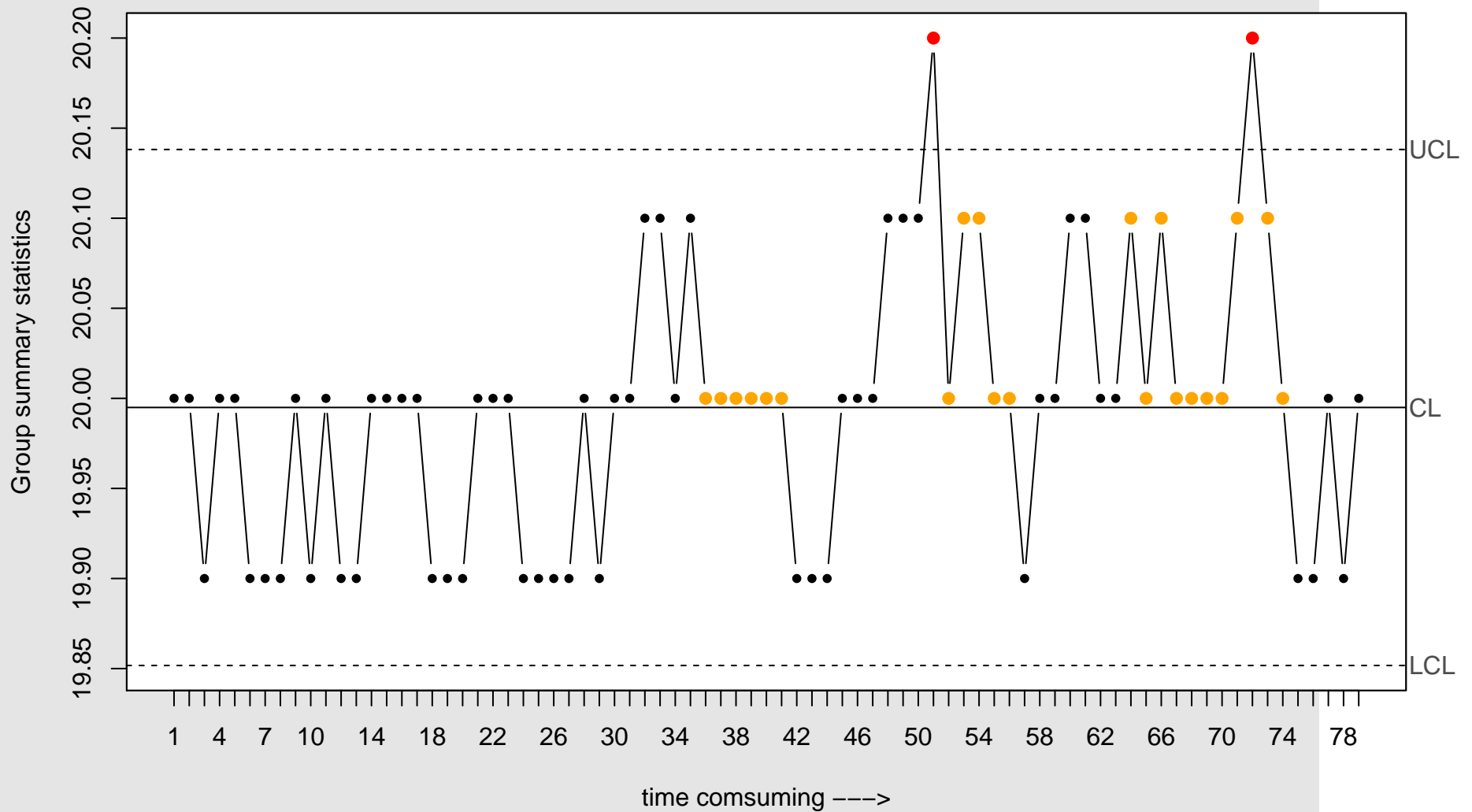


Number of groups = 79
 Center = 20.00759
 StdDev = 0.04318967

LCL = 19.87803
 UCL = 20.13716

Number beyond limits = 2
 Number violating runs = 15

240th column point of this product

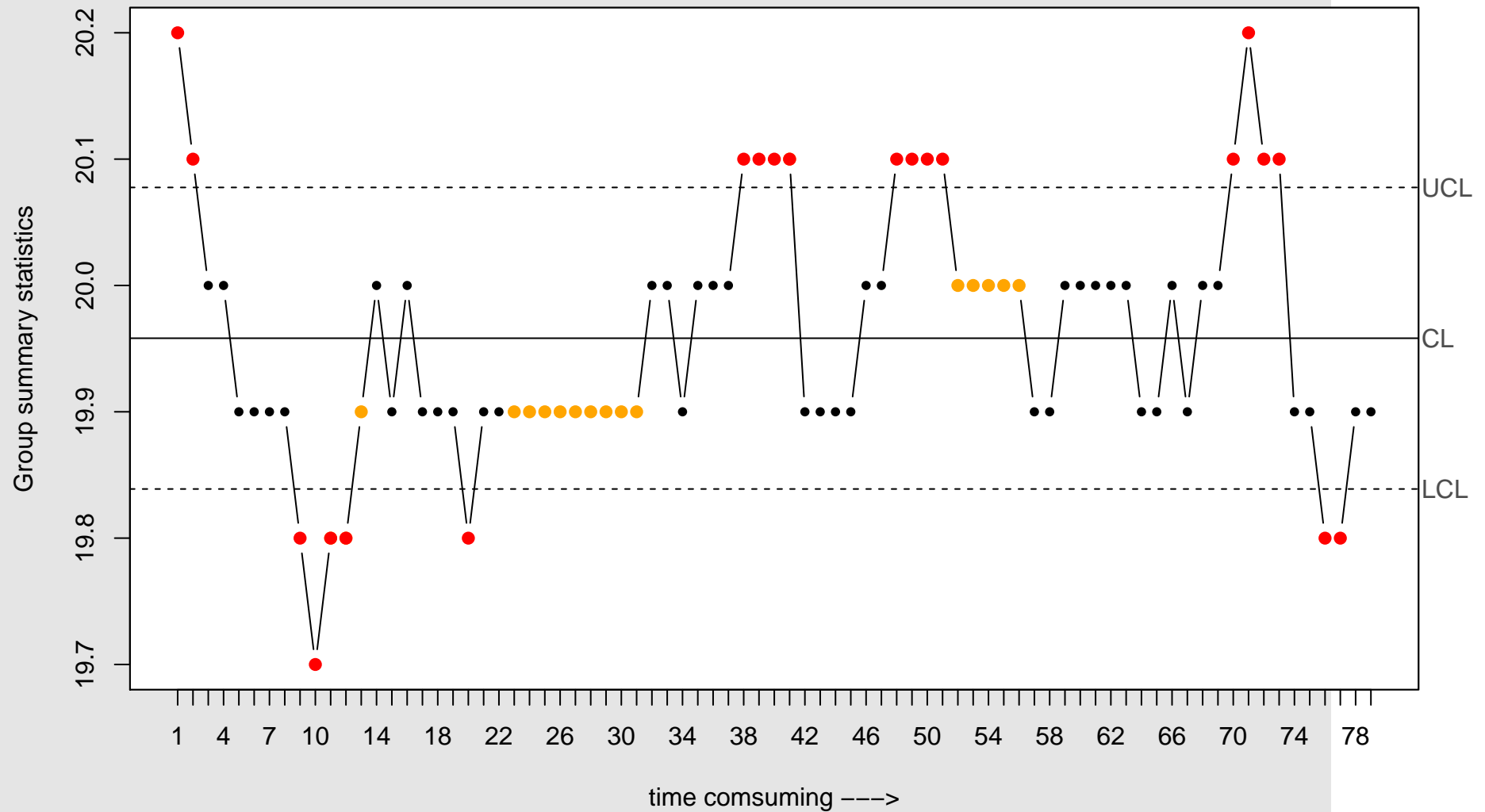


Number of groups = 79
 Center = 19.99494
 StdDev = 0.04773595

LCL = 19.85173
 UCL = 20.13814

Number beyond limits = 2
 Number violating runs = 23

241th column point of this product

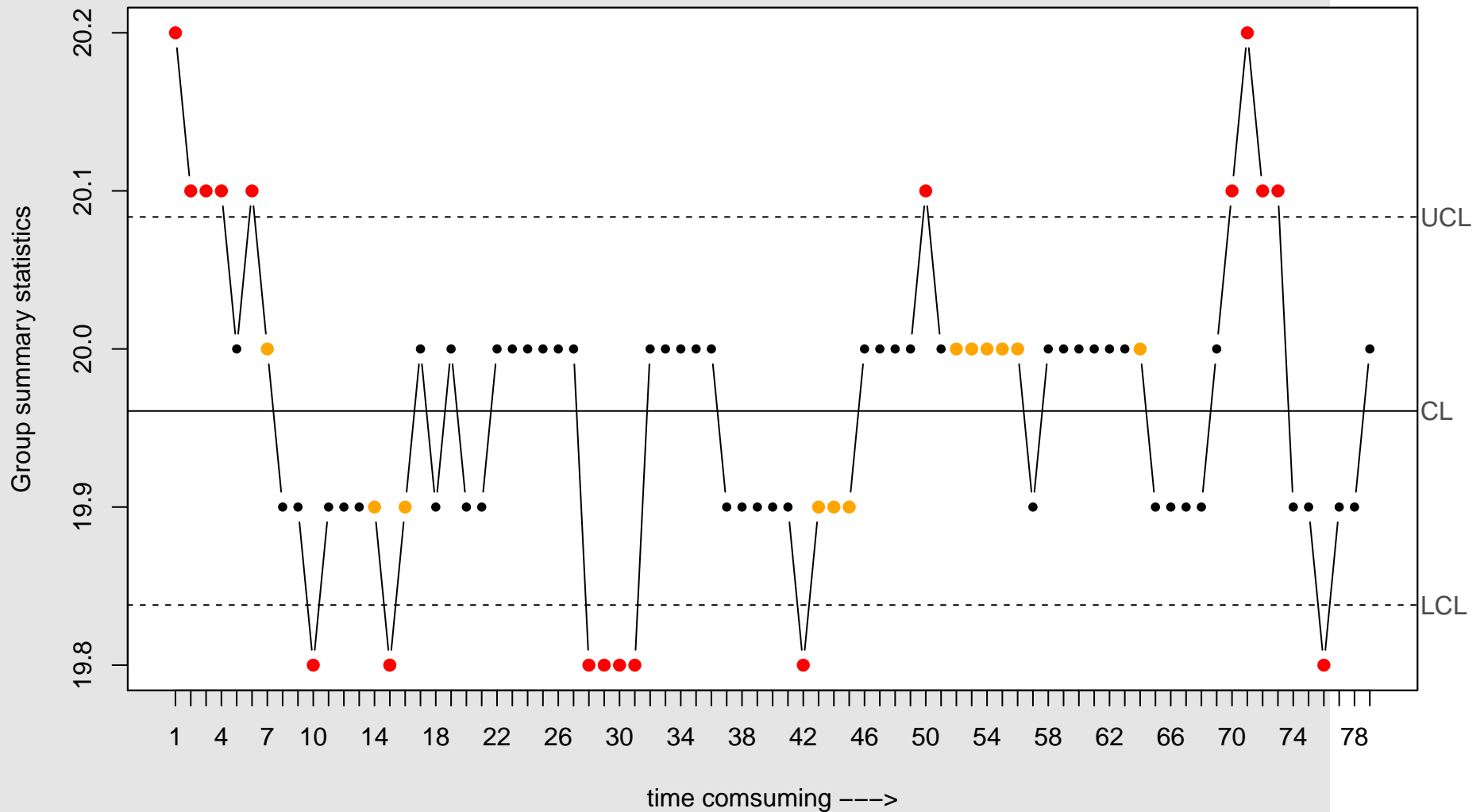


Number of groups = 79
 Center = 19.95823
 StdDev = 0.03977996

LCL = 19.83889
 UCL = 20.07757

Number beyond limits = 21
 Number violating runs = 18

242th column point of this product

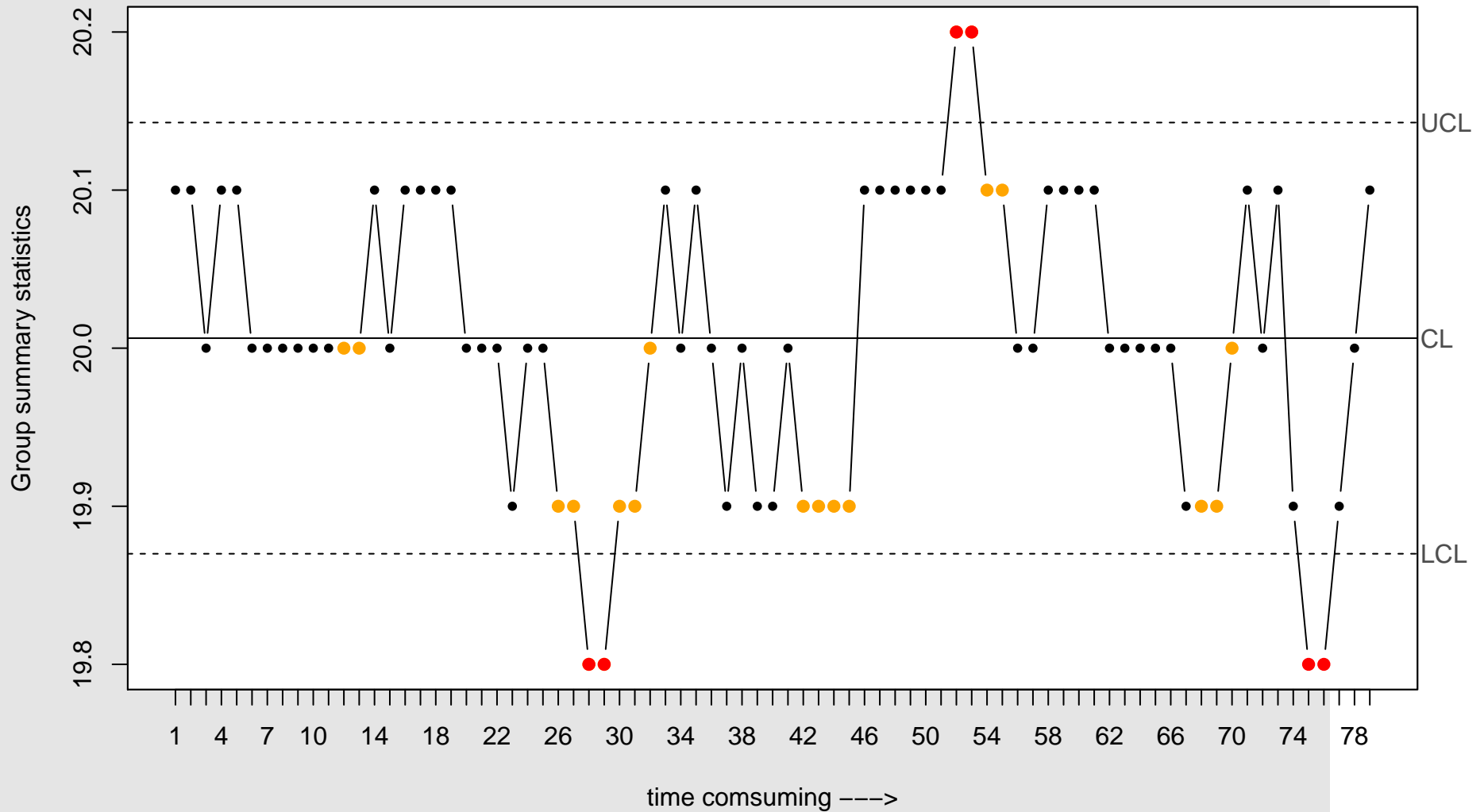


Number of groups = 79
Center = 19.96076
StdDev = 0.04091653

LCL = 19.83801
UCL = 20.08351

Number beyond limits = 18
Number violating runs = 13

243th column point of this product

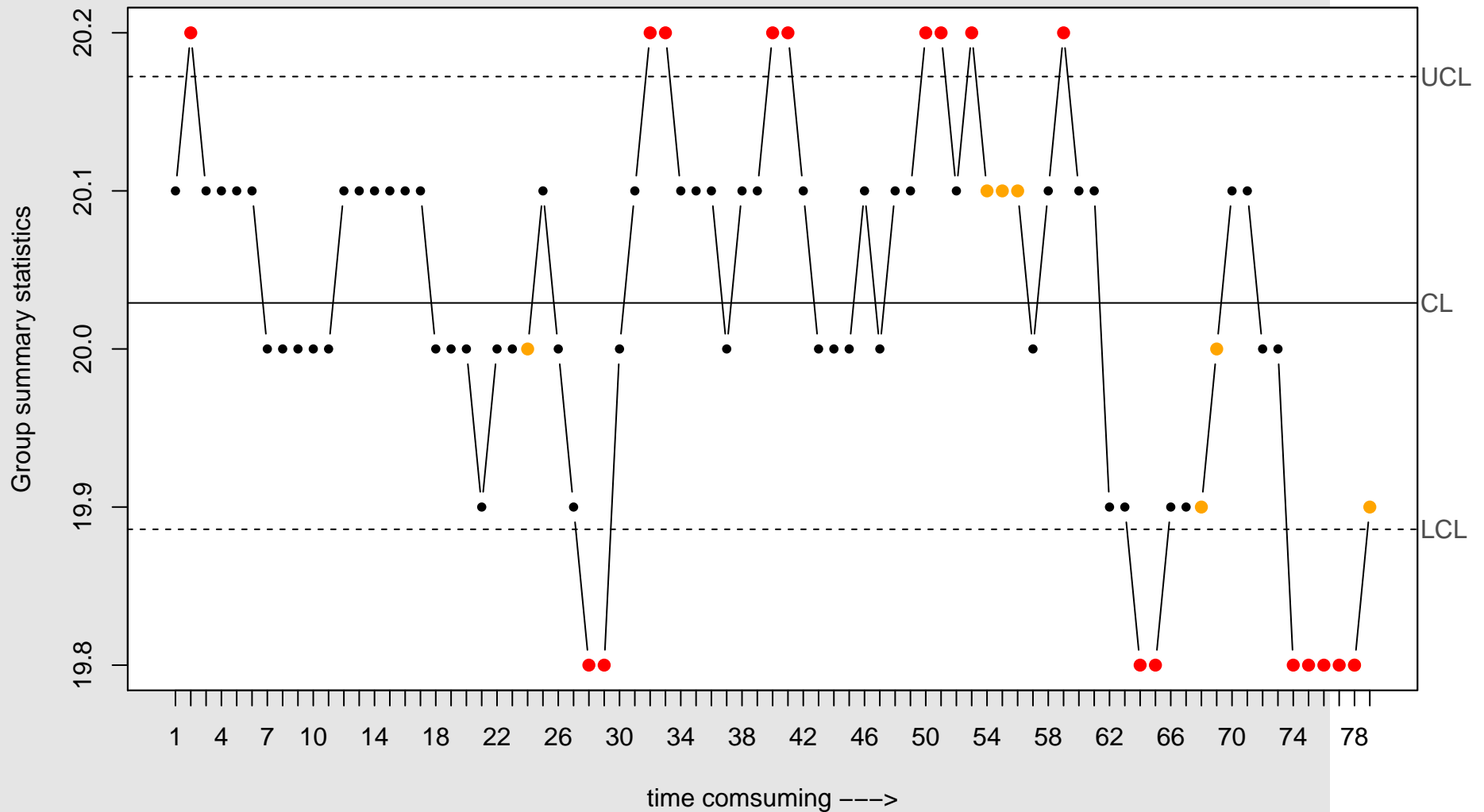


Number of groups = 79
 Center = 20.00633
 StdDev = 0.04546281

LCL = 19.86994
 UCL = 20.14272

Number beyond limits = 6
 Number violating runs = 20

244th column point of this product

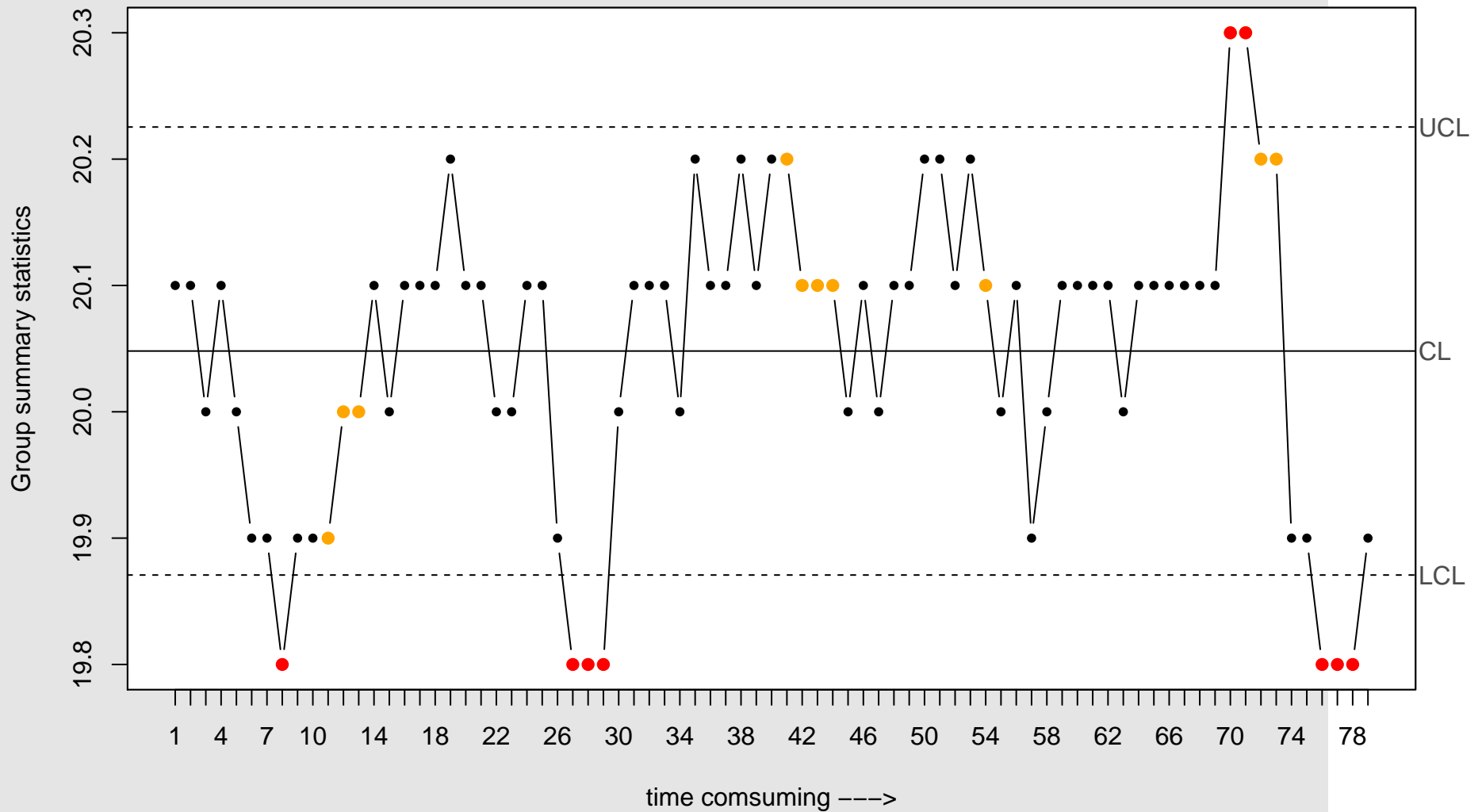


Number of groups = 79
 Center = 20.02911
 StdDev = 0.04773595

LCL = 19.88591
 UCL = 20.17232

Number beyond limits = 18
 Number violating runs = 8

245th column point of this product

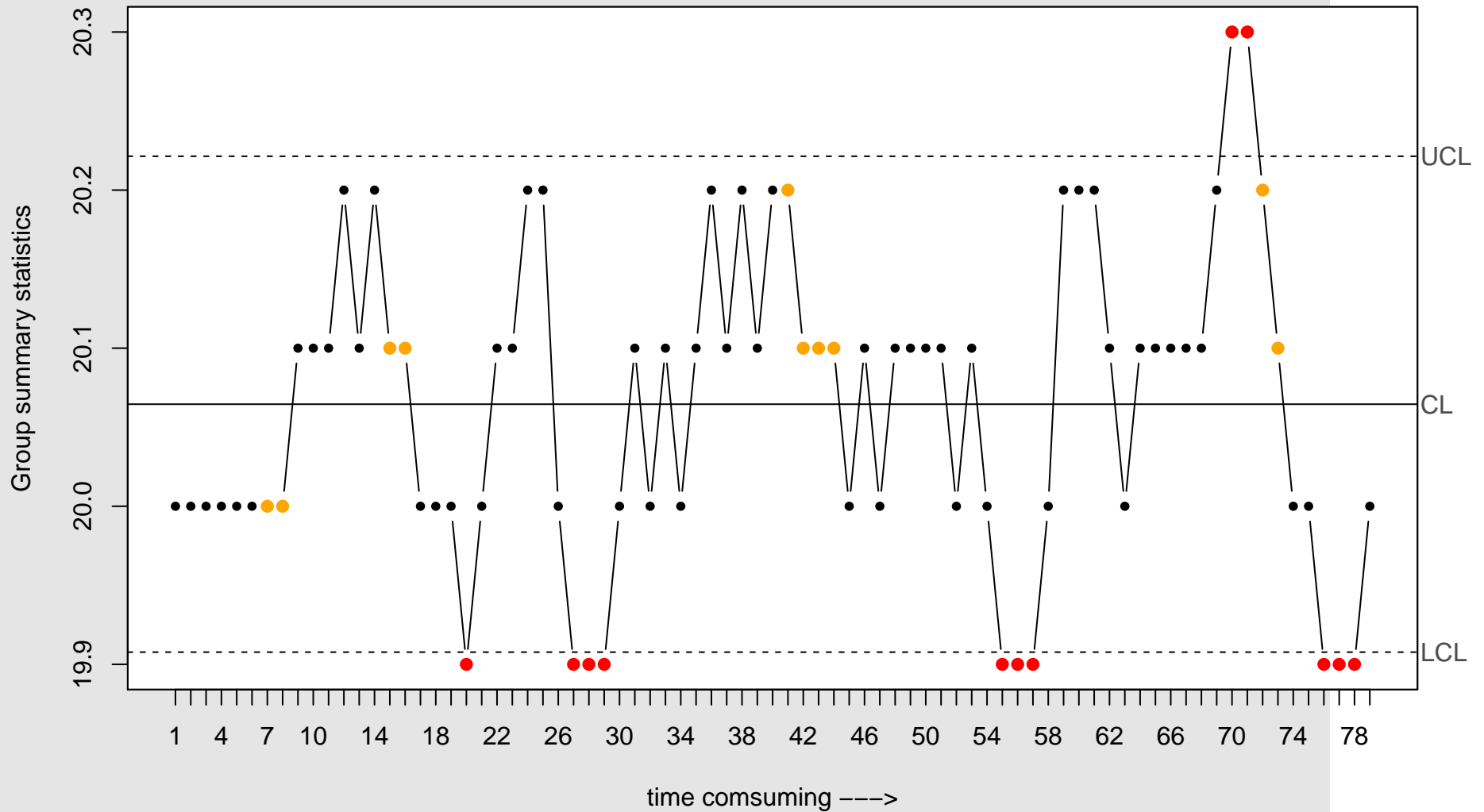


Number of groups = 79
Center = 20.0481
StdDev = 0.05910165

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

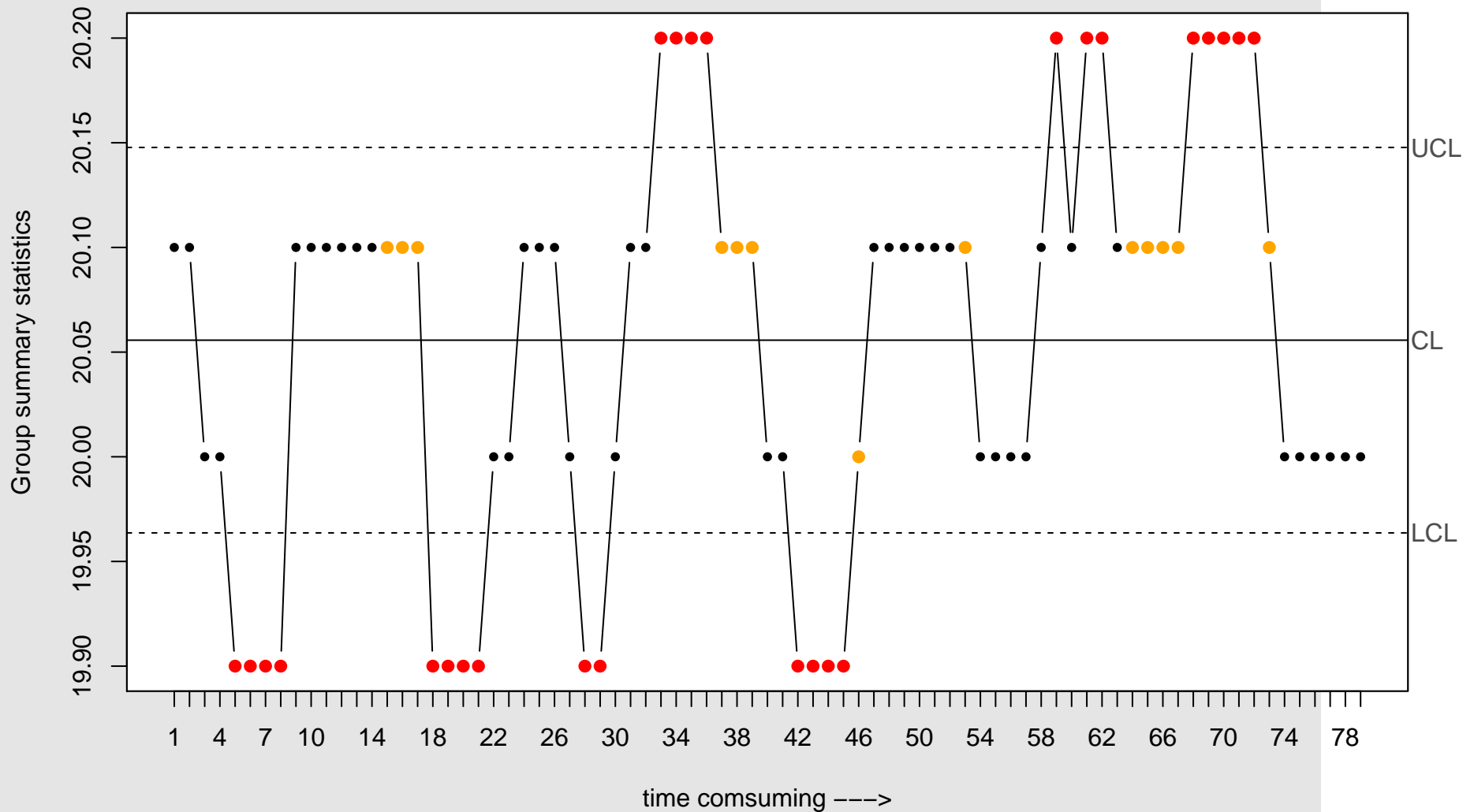
LCL = 19.90771

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

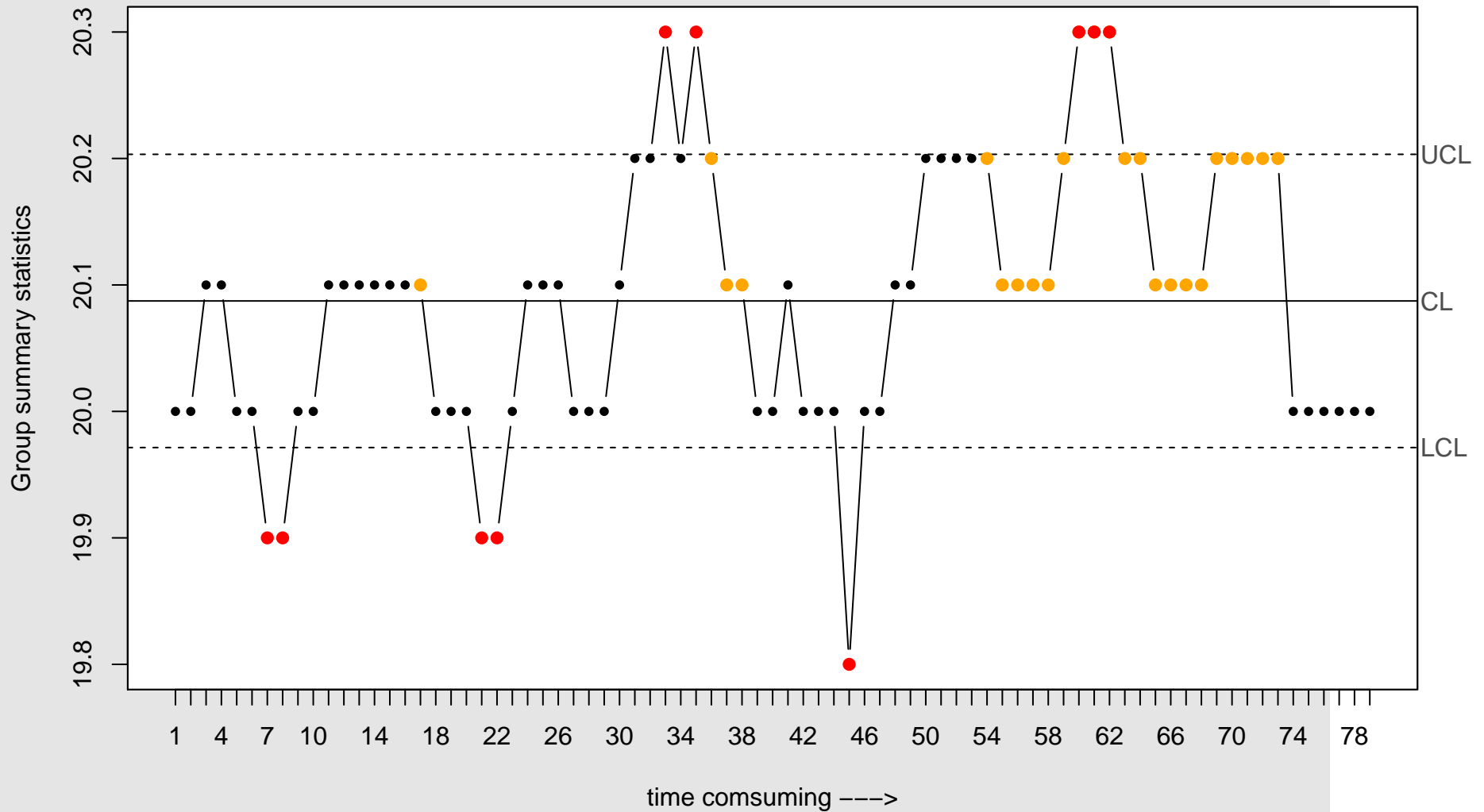
LCL = 19.96363

UCL = 20.14776

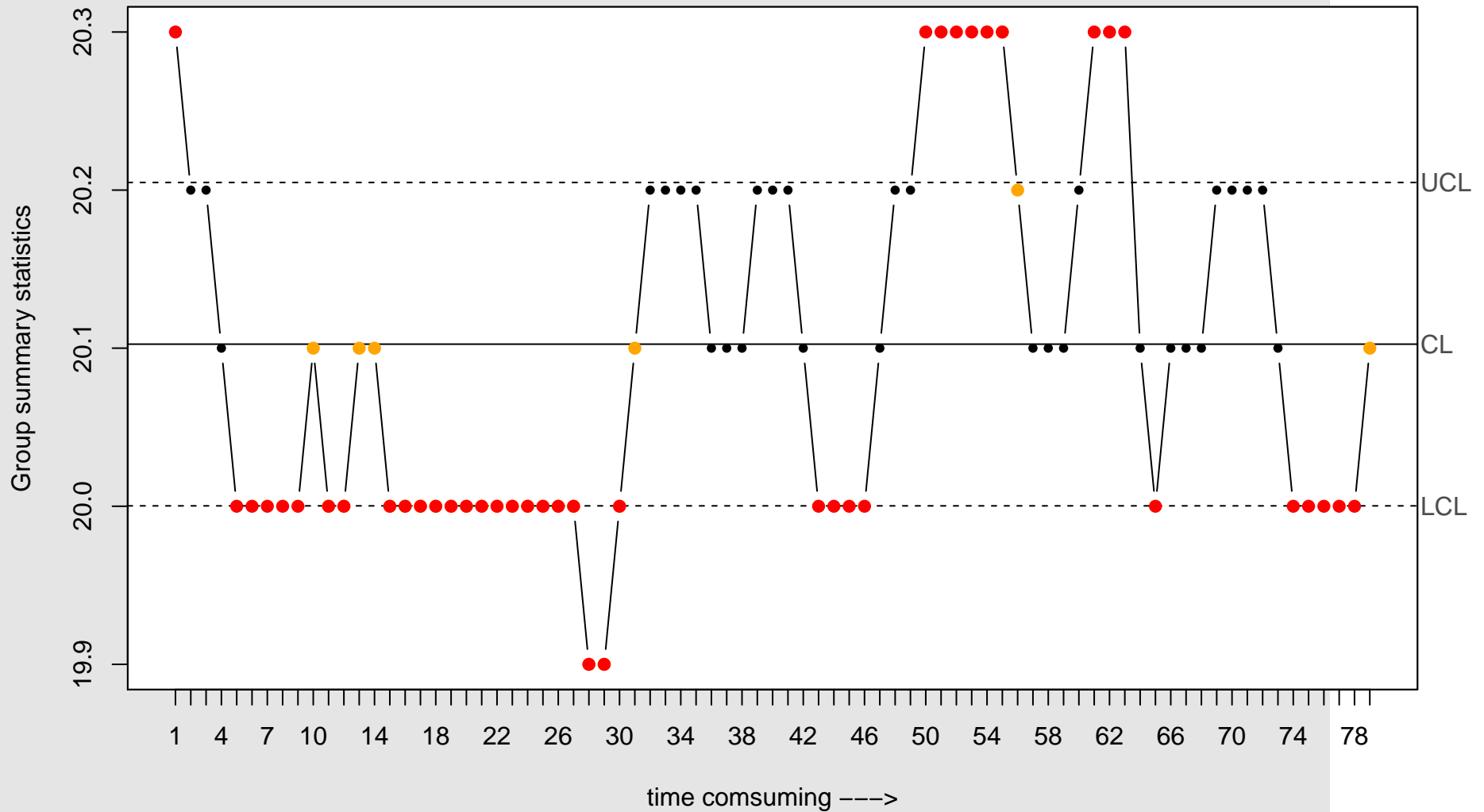
Number beyond limits = 26

Number violating runs = 18

248th column point of this product



249th column point of this product

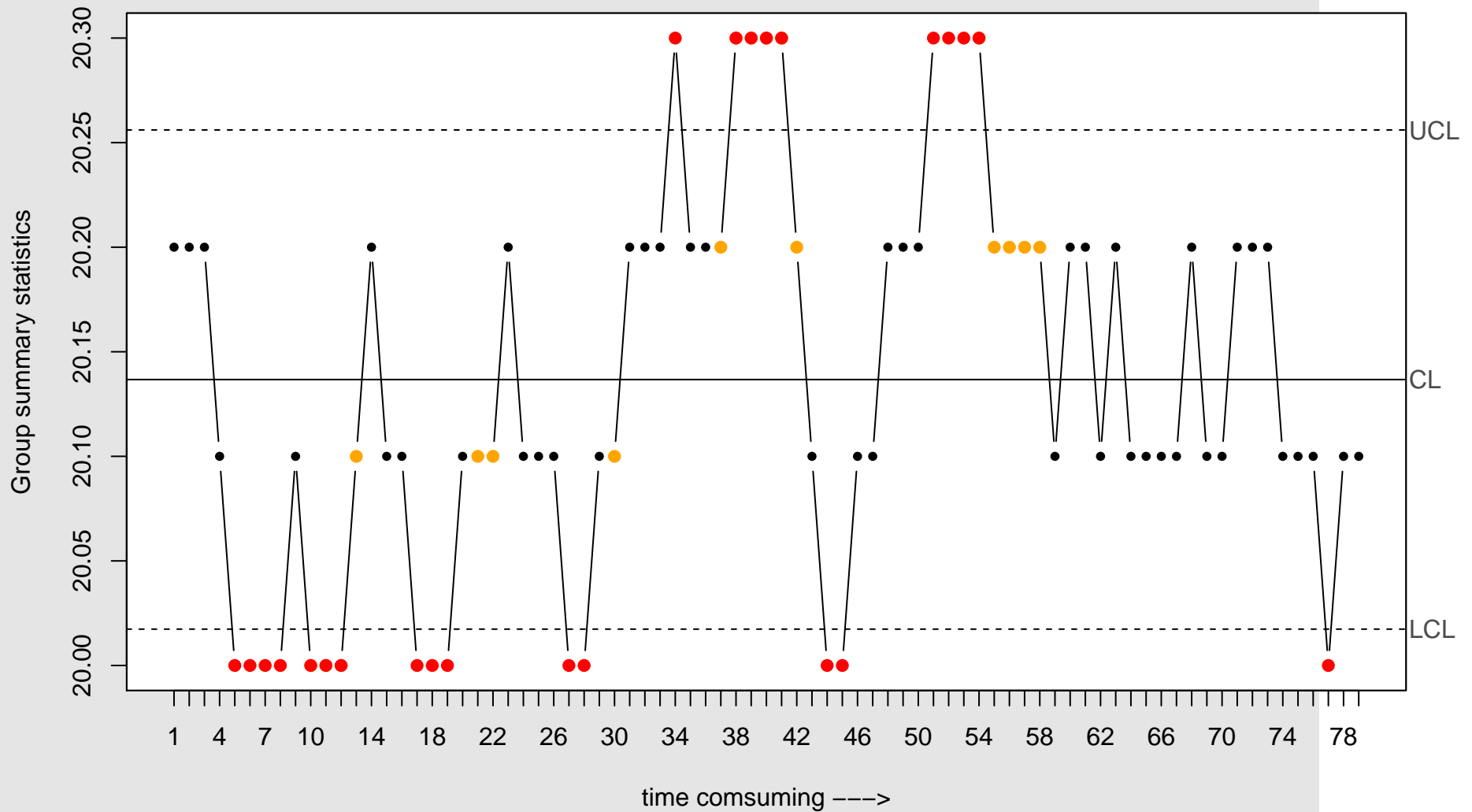


Number of groups = 79
Center = 20.10253
StdDev = 0.03409711

LCL = 20.00024
UCL = 20.20482

Number beyond limits = 43
Number violating runs = 26

250th column point of this product



Number of groups = 79

Center = 20.13671

StdDev = 0.03977996

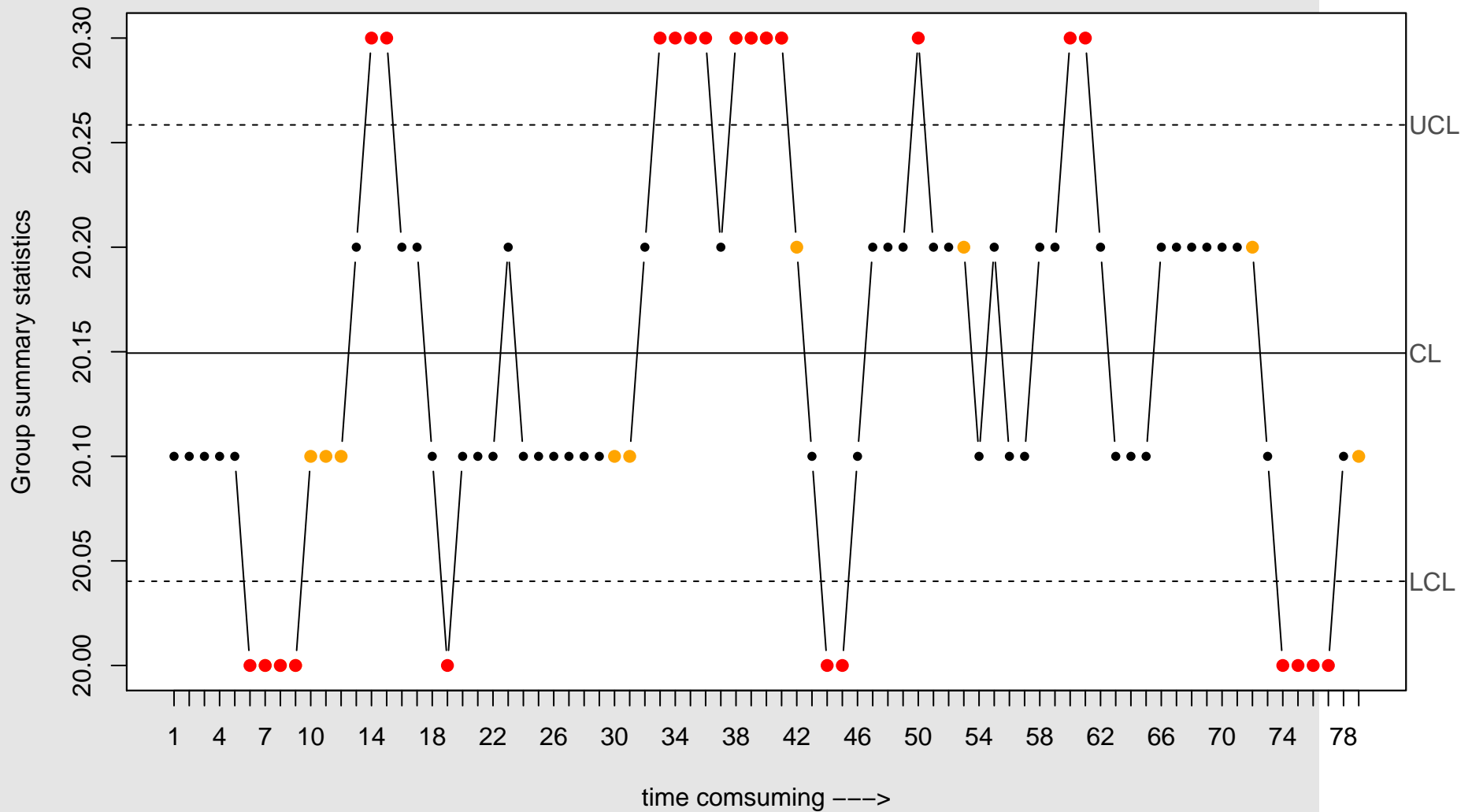
LCL = 20.01737

UCL = 20.25605

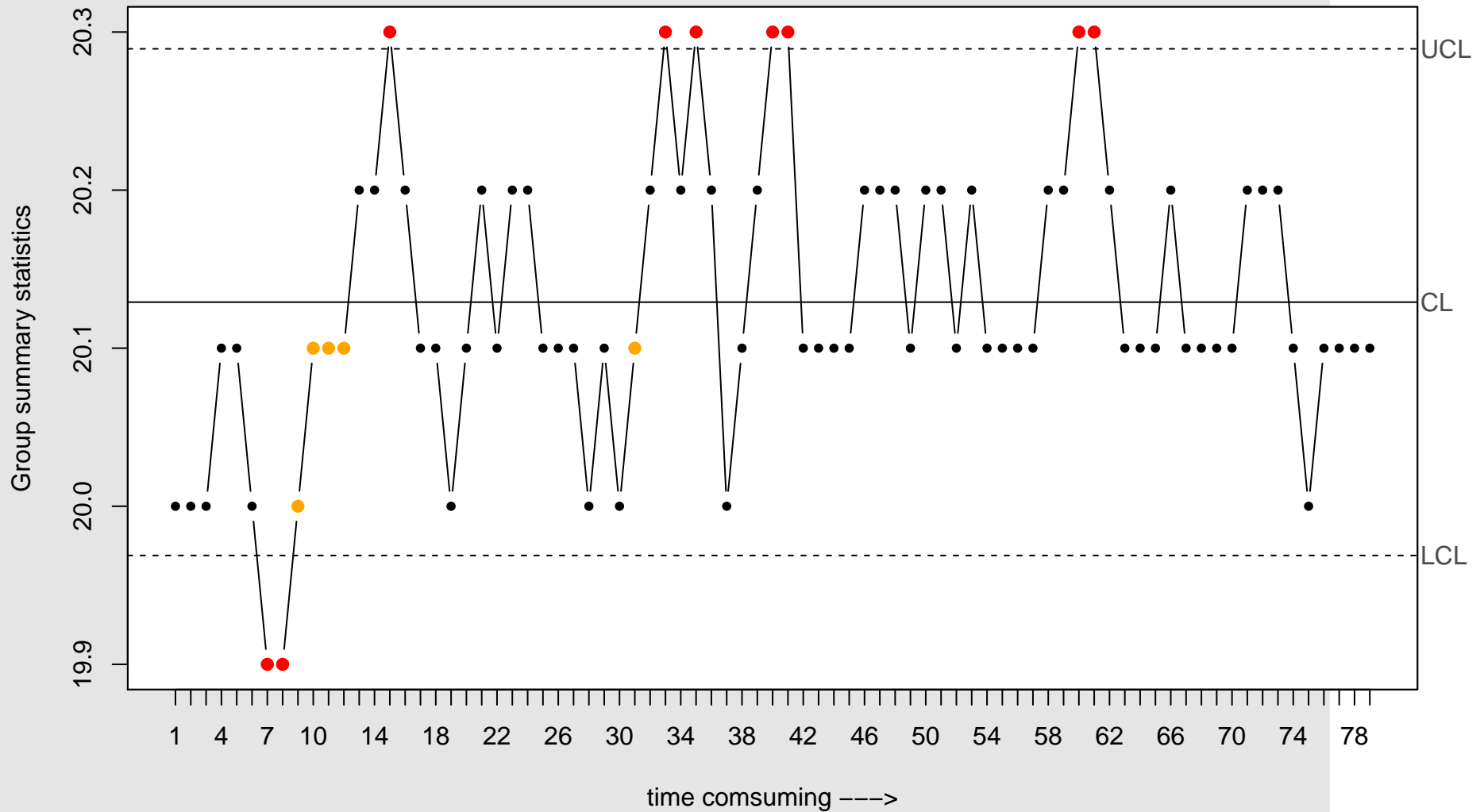
Number beyond limits = 24

Number violating runs = 18

251th column point of this product



252th column point of this product

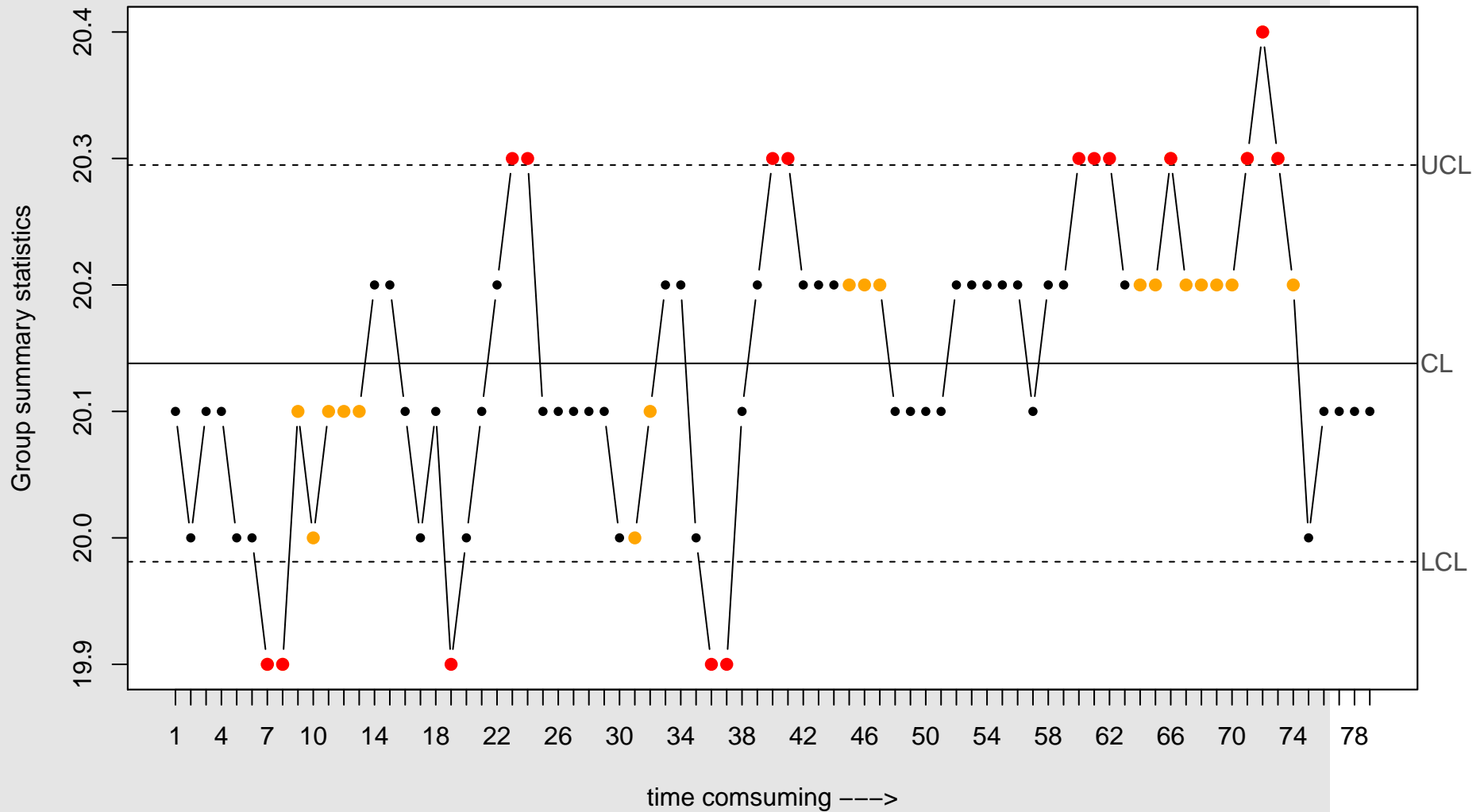


Number of groups = 79
 Center = 20.12911
 StdDev = 0.0534188

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

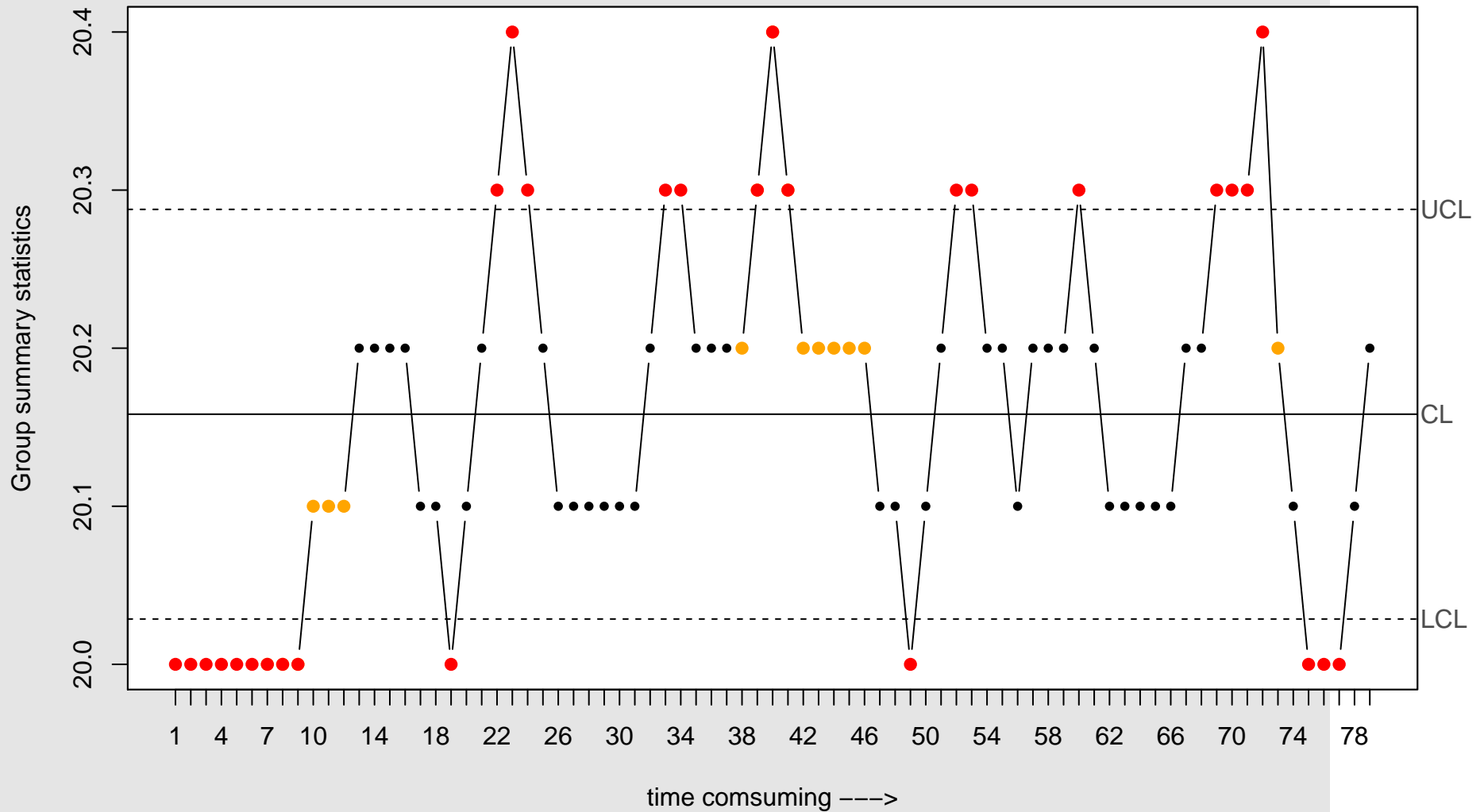
LCL = 19.98113

UCL = 20.29482

Number beyond limits = 16

Number violating runs = 23

254th column point of this product

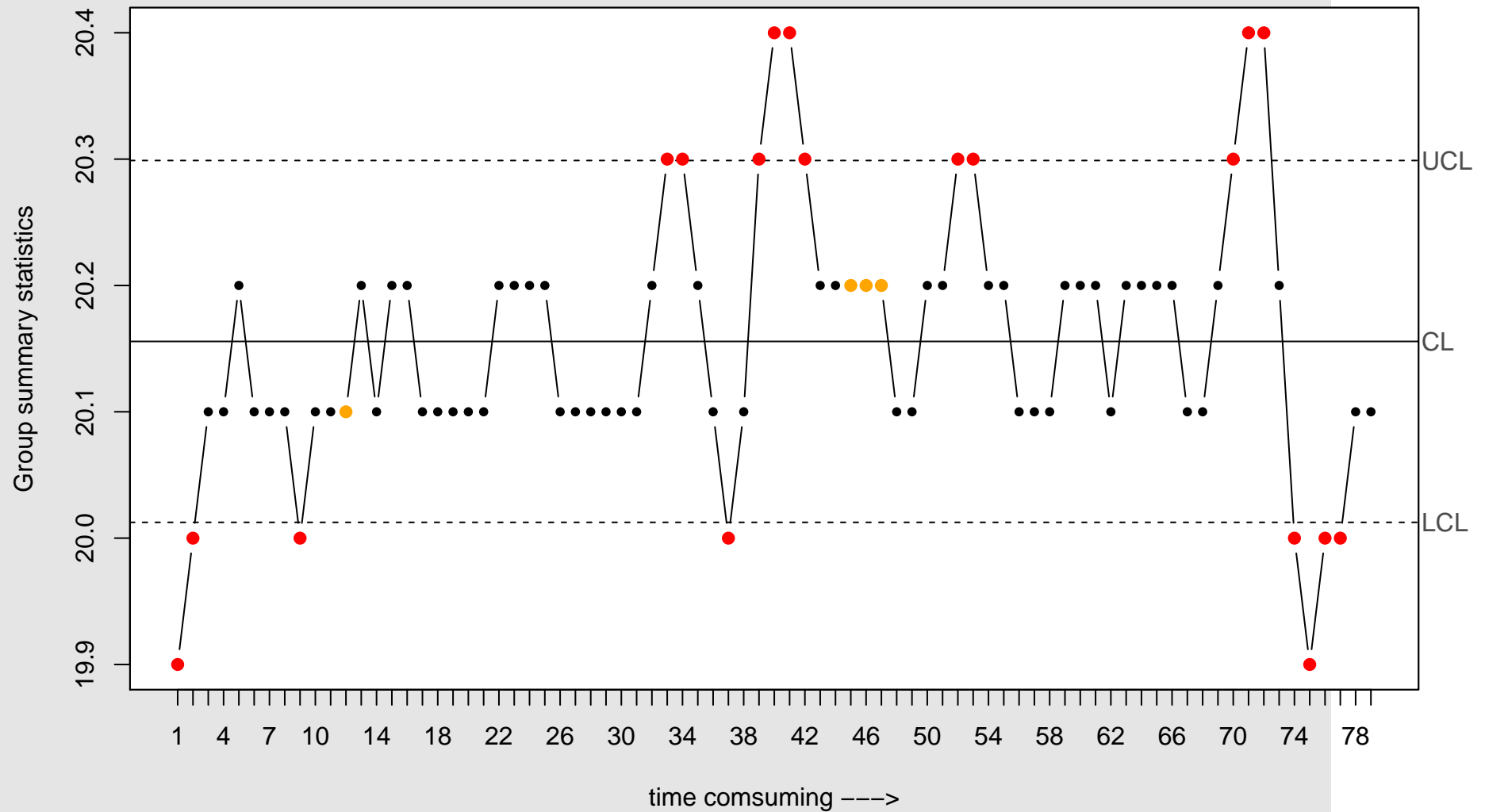


Number of groups = 79
 Center = 20.15823
 StdDev = 0.04318967

LCL = 20.02866
 UCL = 20.2878

Number beyond limits = 29
 Number violating runs = 16

255th column point of this product

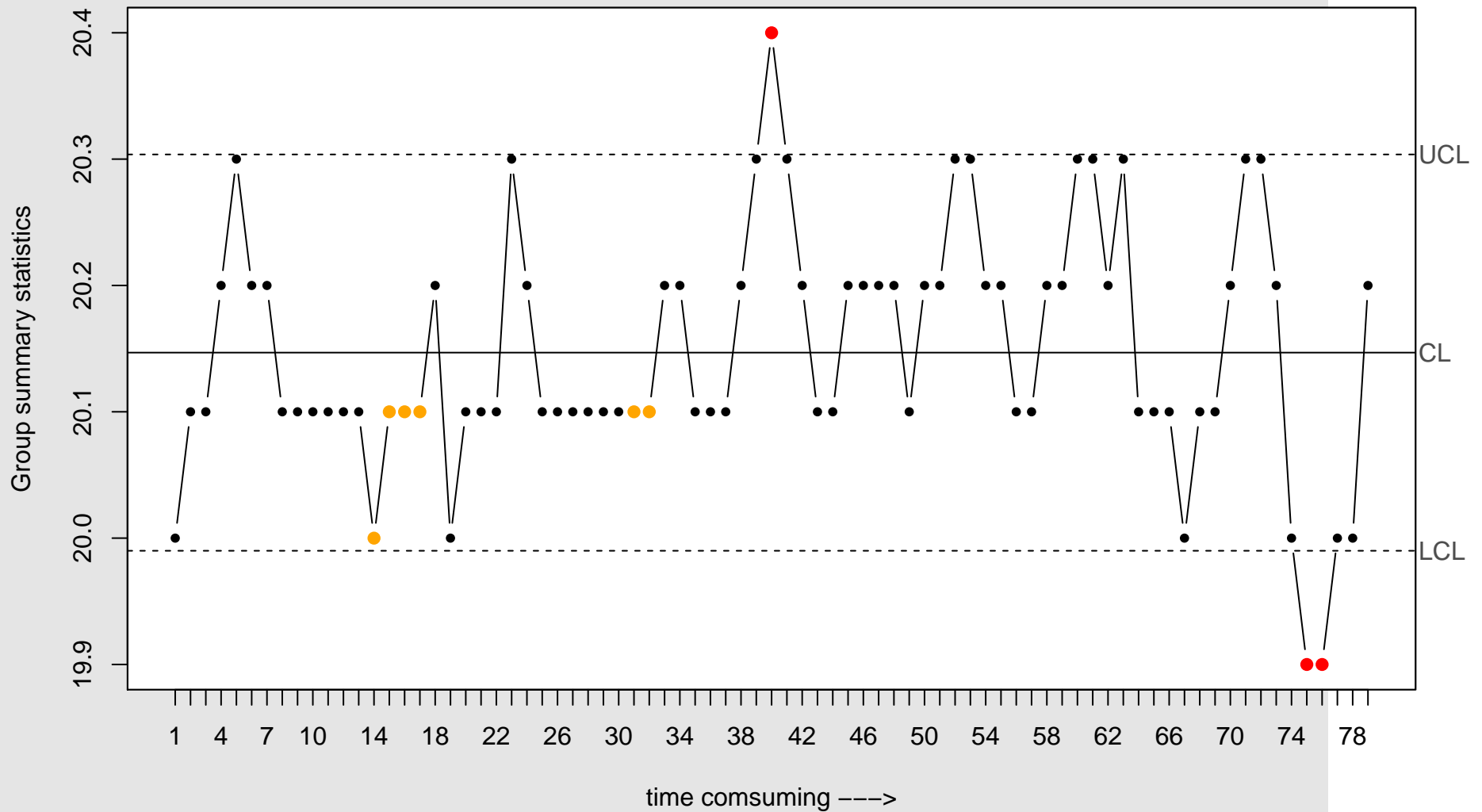


Number of groups = 79
 Center = 20.1557
 StdDev = 0.04773595

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

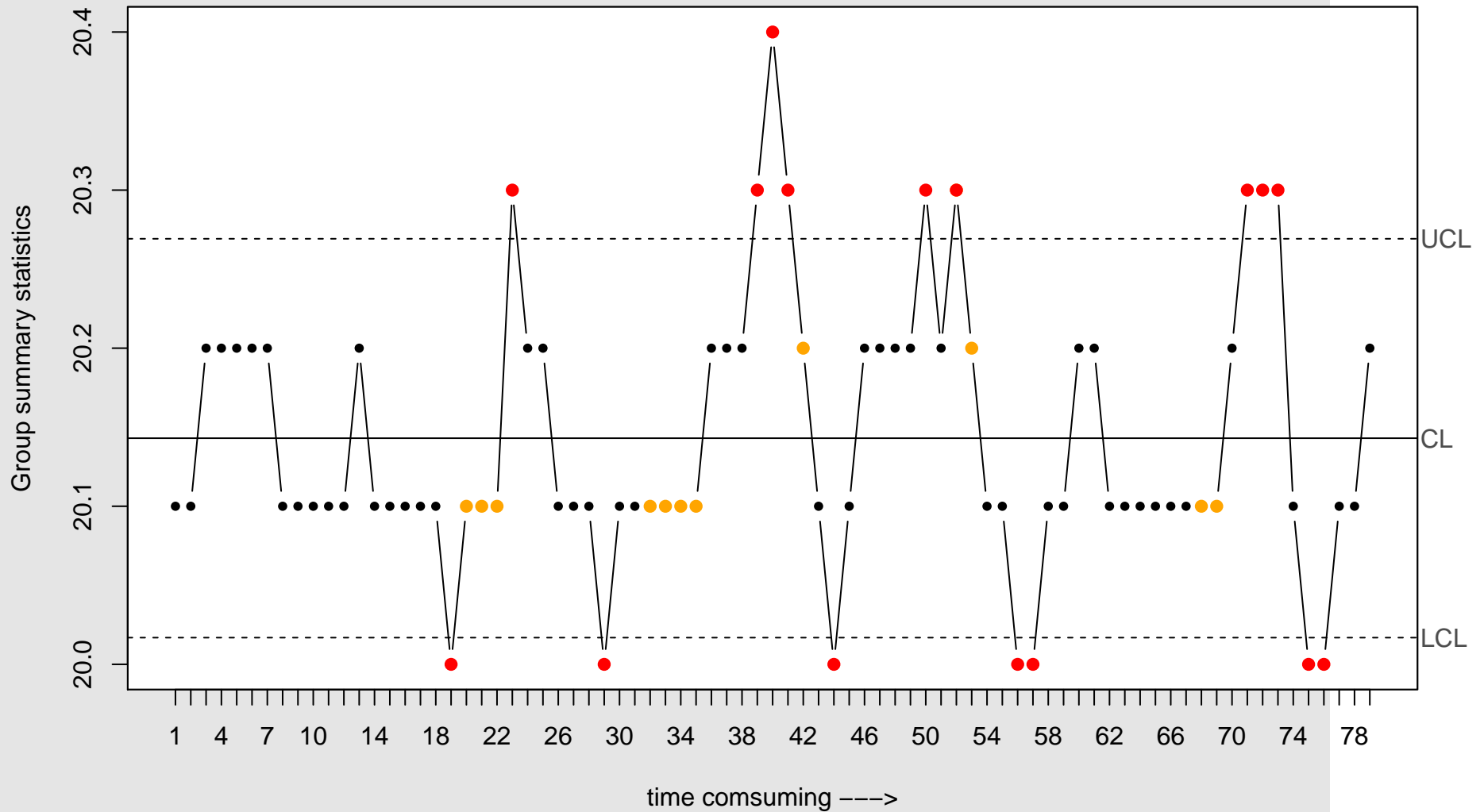
LCL = 19.98999

UCL = 20.30368

Number beyond limits = 3

Number violating runs = 6

257th column point of this product



Number of groups = 79

Center = 20.14304

StdDev = 0.0420531

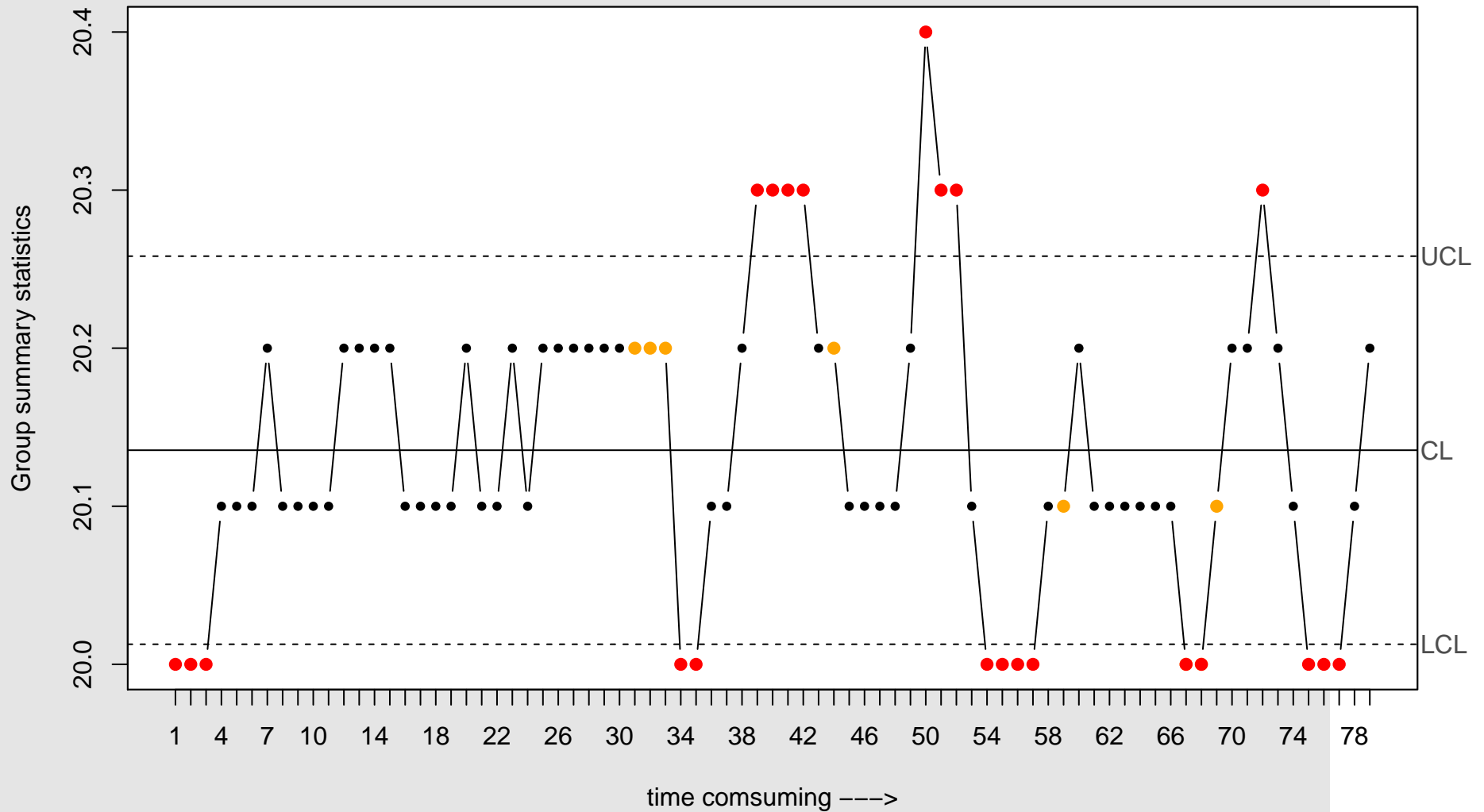
LCL = 20.01688

UCL = 20.2692

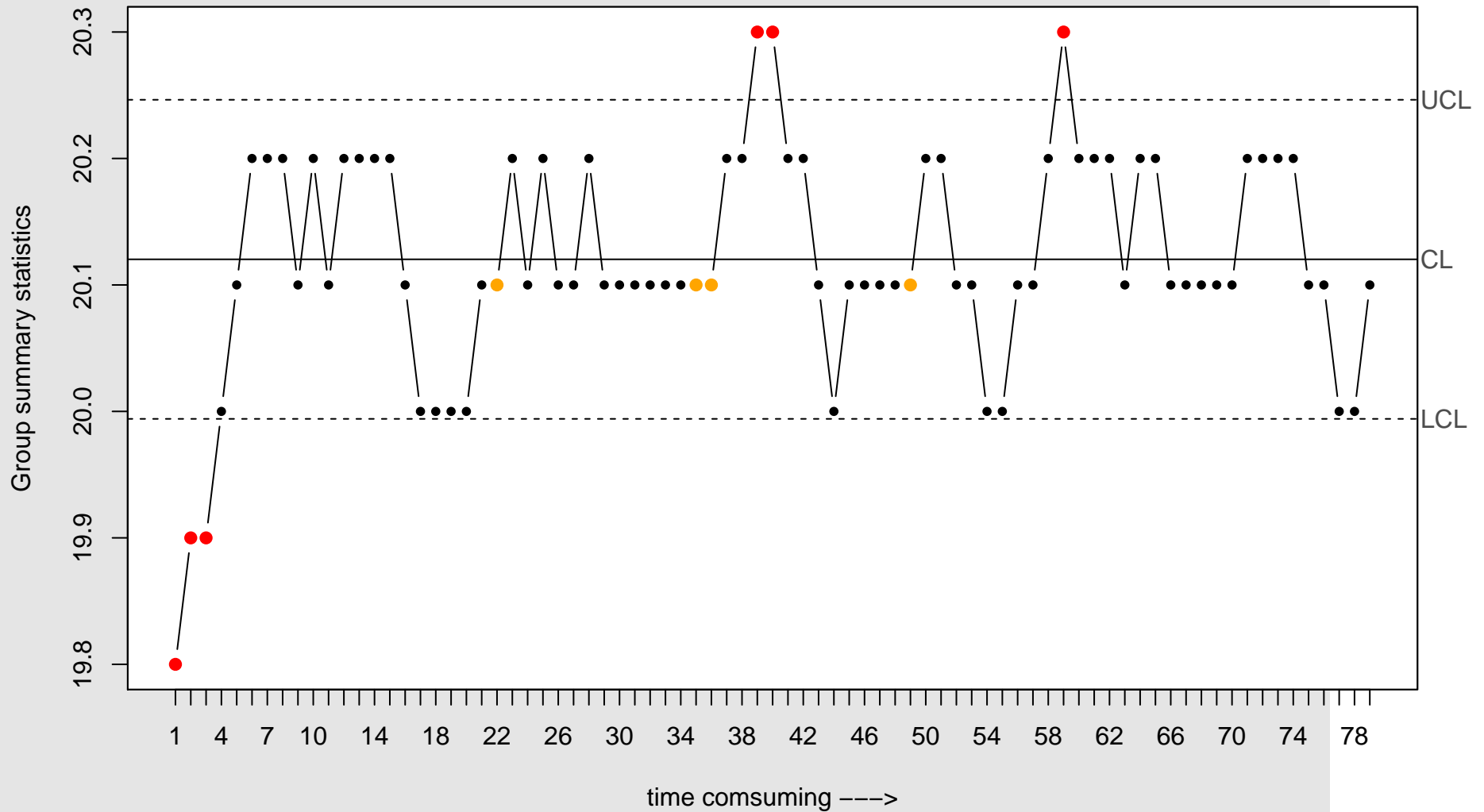
Number beyond limits = 16

Number violating runs = 12

258th column point of this product



259th column point of this product



Number of groups = 79

Center = 20.12025

StdDev = 0.0420531

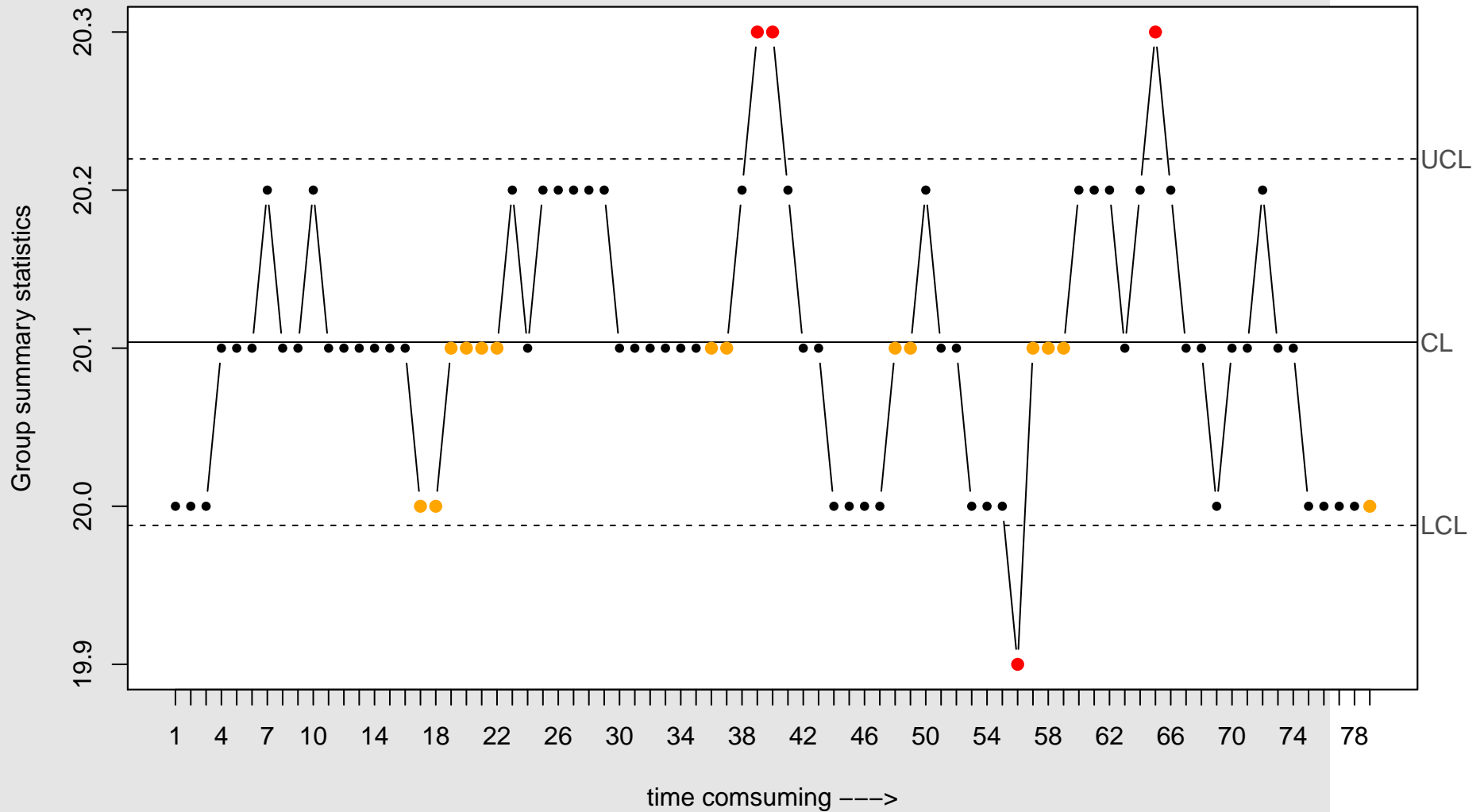
LCL = 19.99409

UCL = 20.24641

Number beyond limits = 6

Number violating runs = 4

260th column point of this product

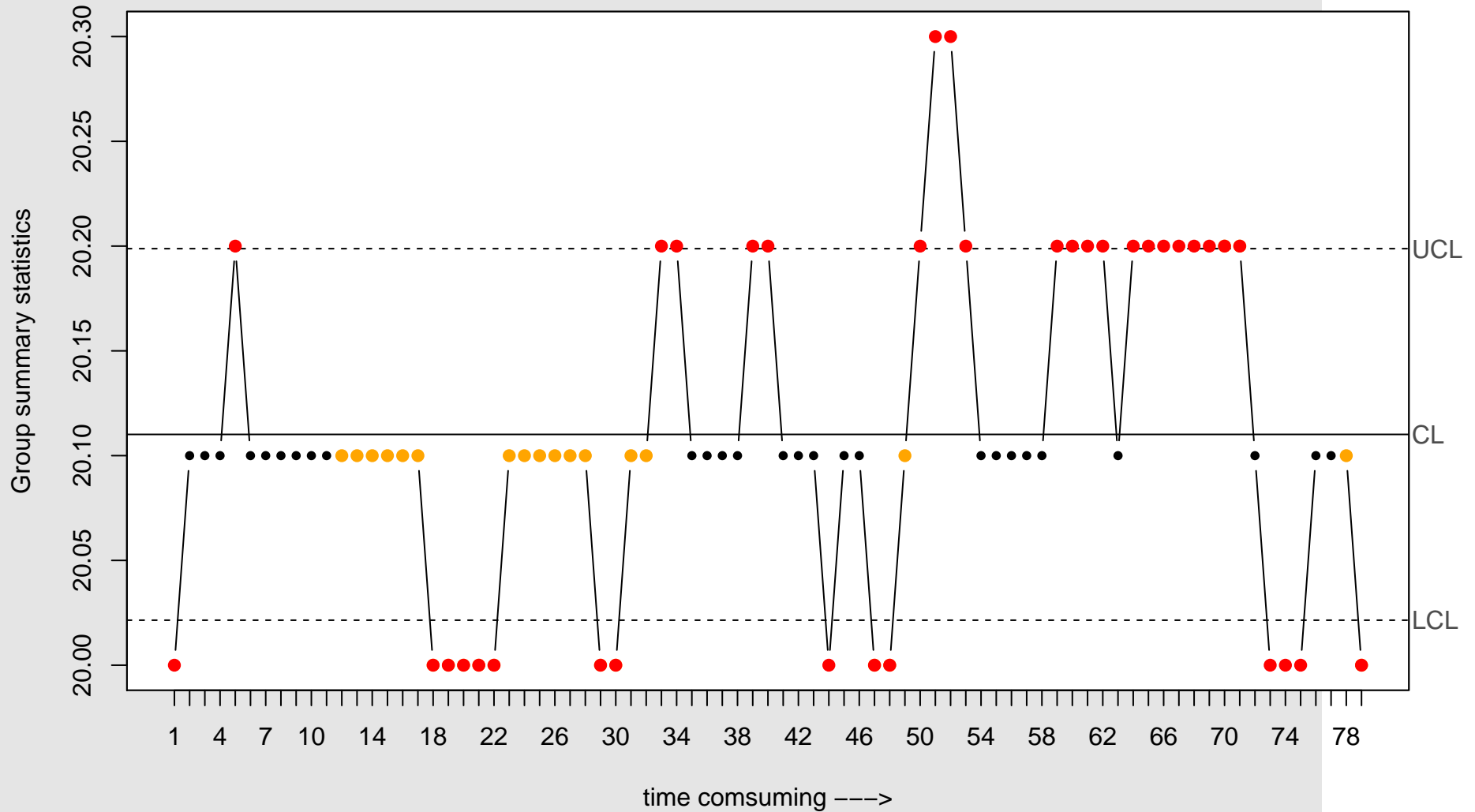


Number of groups = 79
 Center = 20.1038
 StdDev = 0.03864339

LCL = 19.98787
 UCL = 20.21973

Number beyond limits = 4
 Number violating runs = 14

261th column point of this product

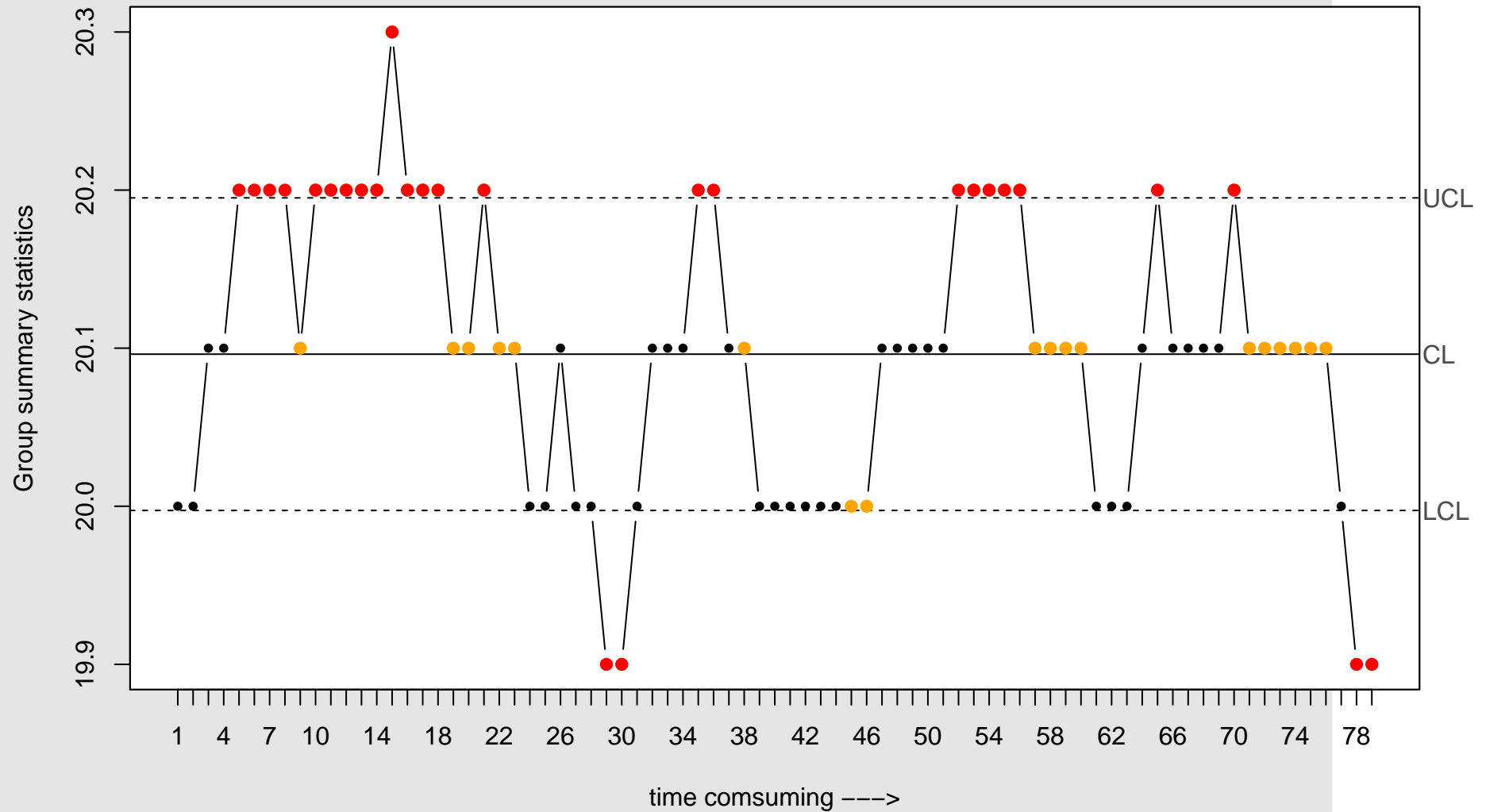


Number of groups = 79
 Center = 20.11013
 StdDev = 0.02955083

LCL = 20.02147
 UCL = 20.19878

Number beyond limits = 36
 Number violating runs = 28

262th column point of this product

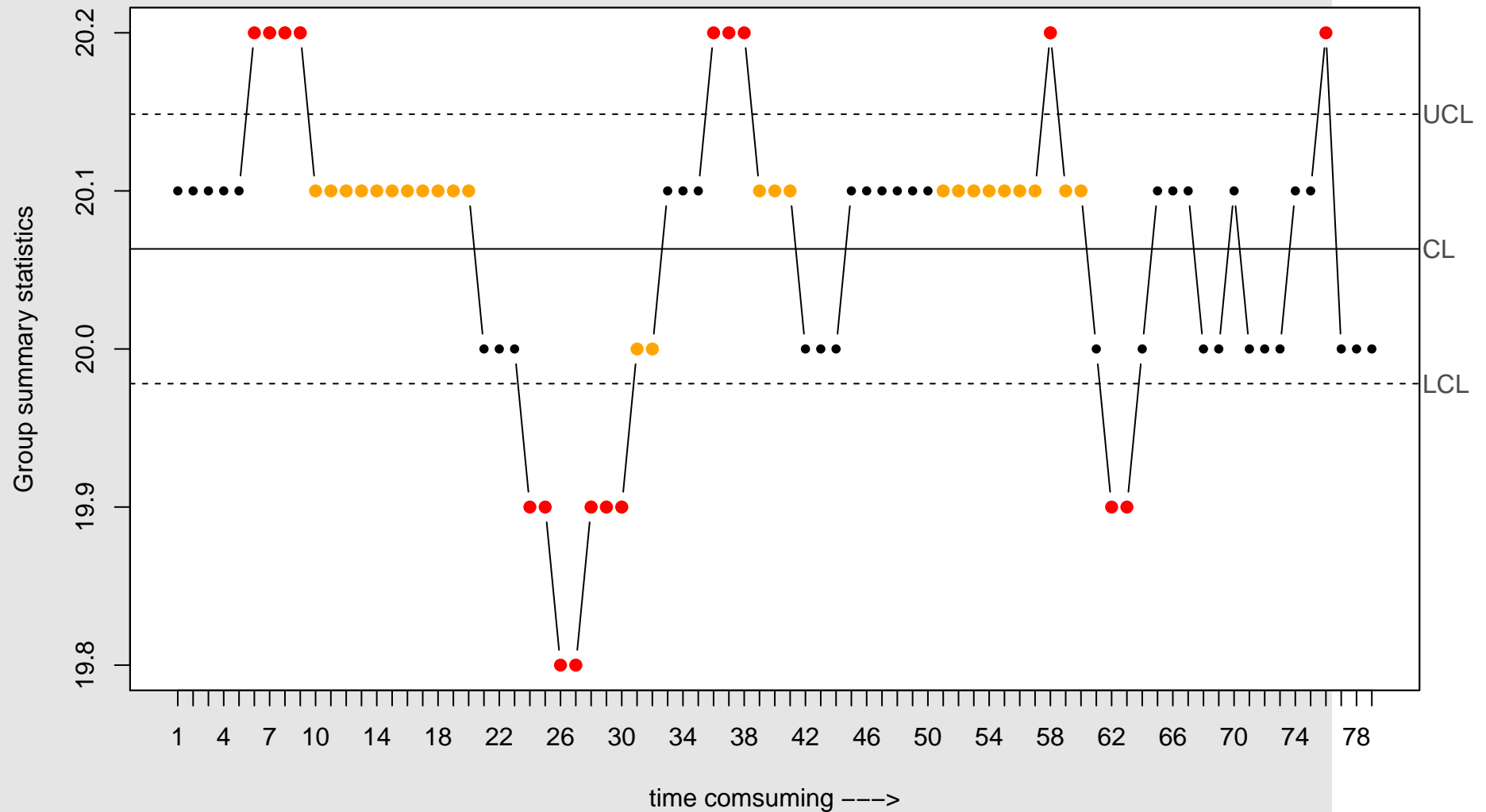


Number of groups = 79
 Center = 20.0962
 StdDev = 0.03296054

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

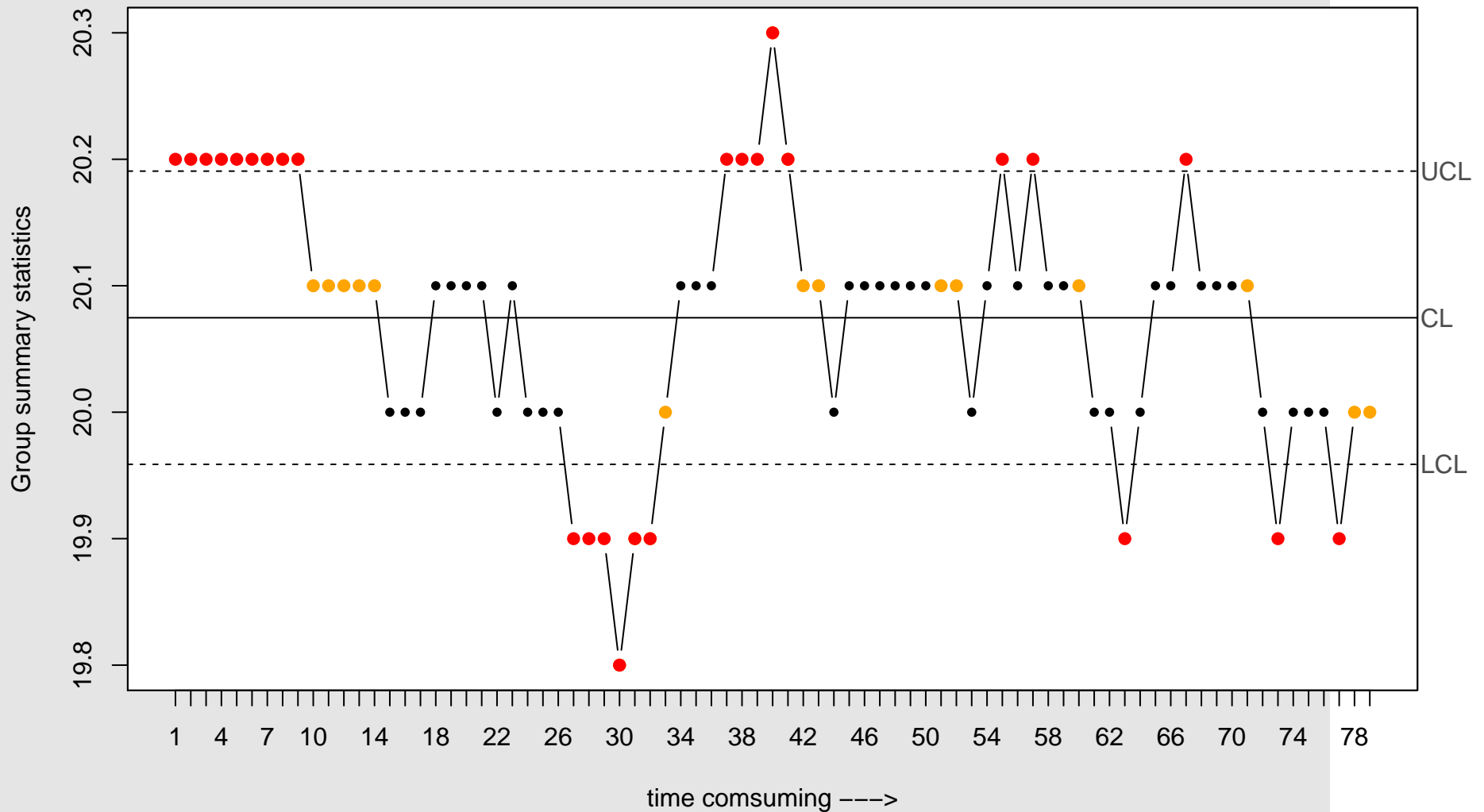
LCL = 19.97805

UCL = 20.14853

Number beyond limits = 18

Number violating runs = 33

264th column point of this product

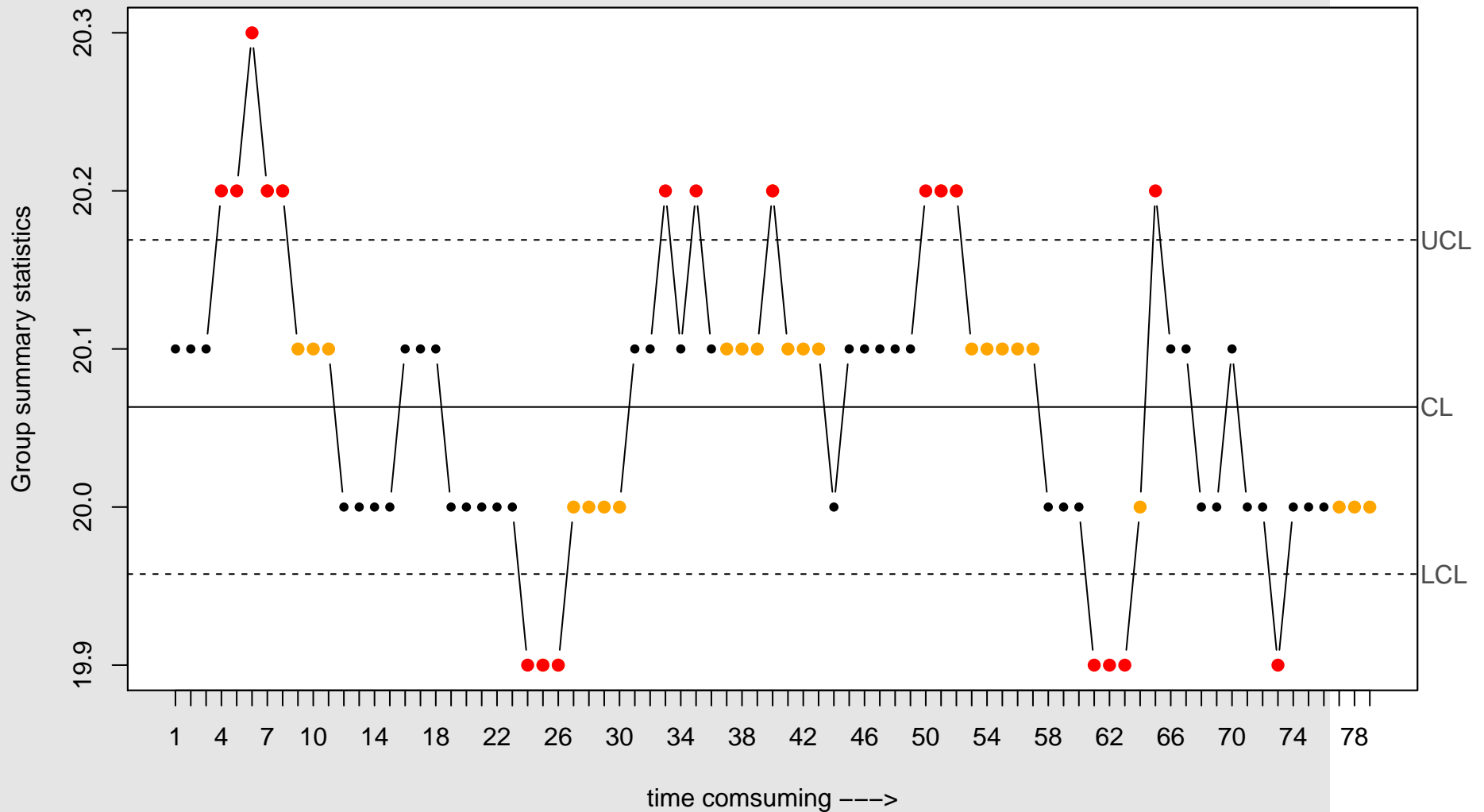


Number of groups = 79
Center = 20.07468
StdDev = 0.03864339

LCL = 19.95875
UCL = 20.19061

Number beyond limits = 26
Number violating runs = 22

265th column point of this product

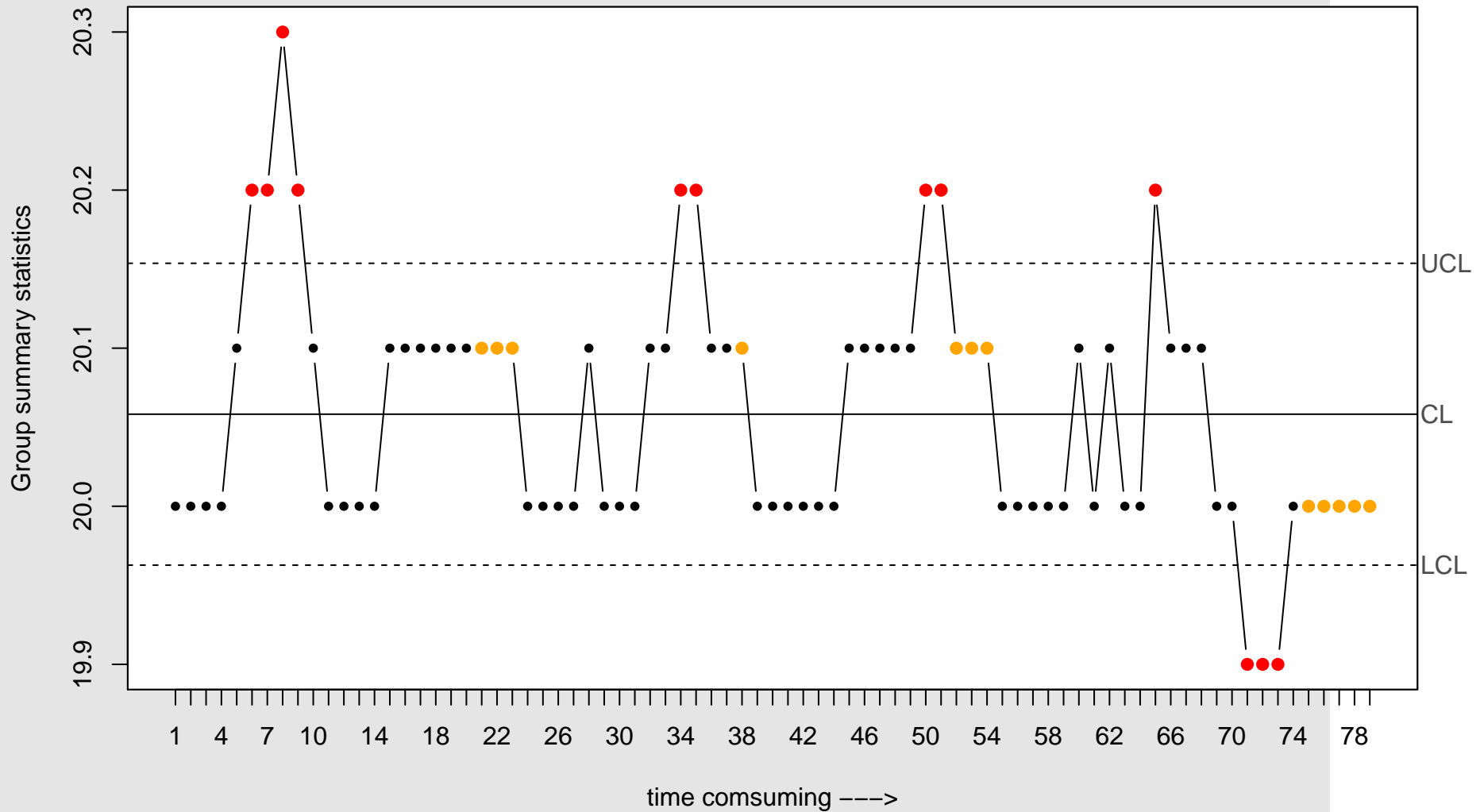


Number of groups = 79
 Center = 20.06329
 StdDev = 0.03523368

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

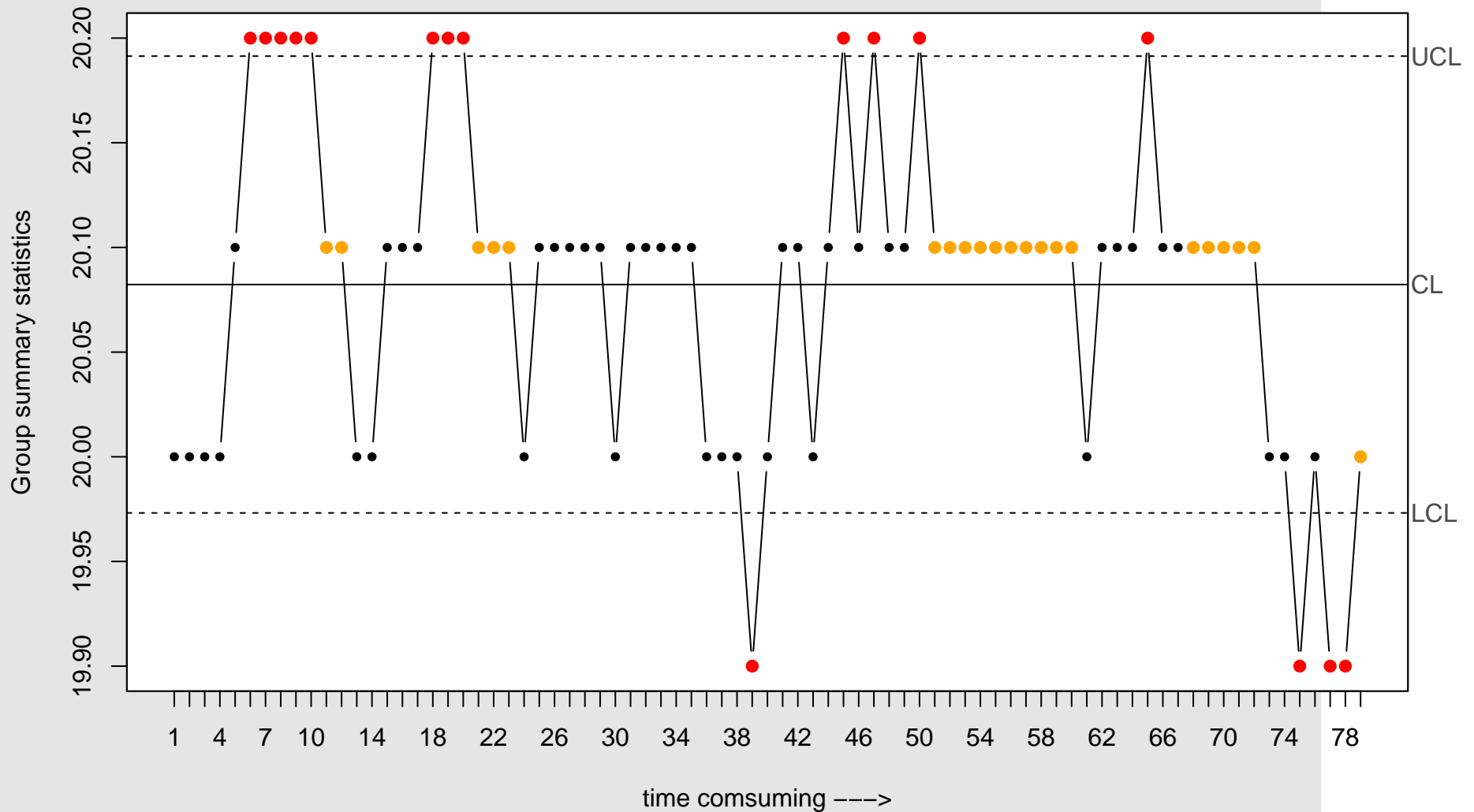
LCL = 19.96276

UCL = 20.1537

Number beyond limits = 12

Number violating runs = 13

267th column point of this product

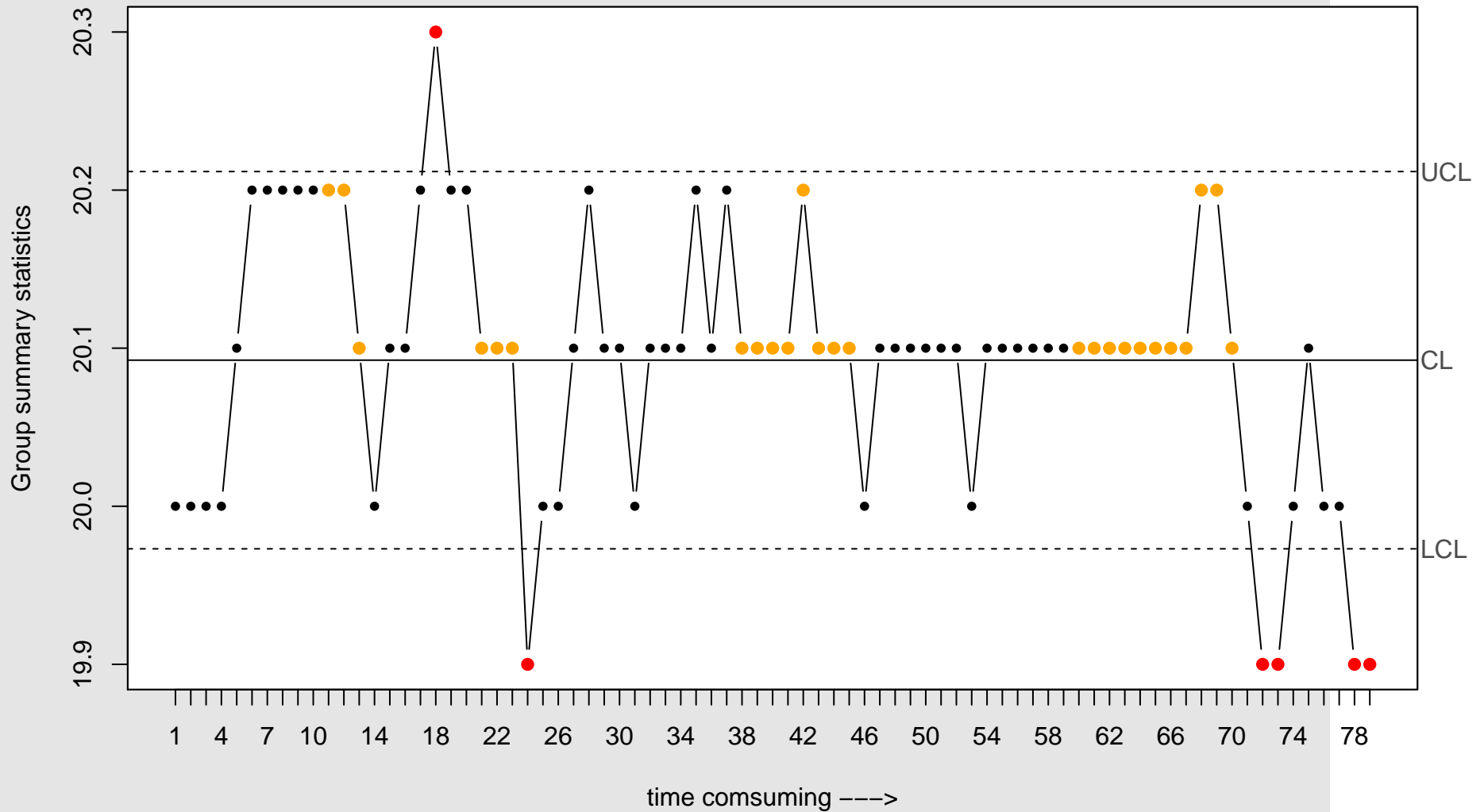


Number of groups = 79
 Center = 20.08228
 StdDev = 0.03637025

LCL = 19.97317
 UCL = 20.19139

Number beyond limits = 16
 Number violating runs = 22

268th column point of this product

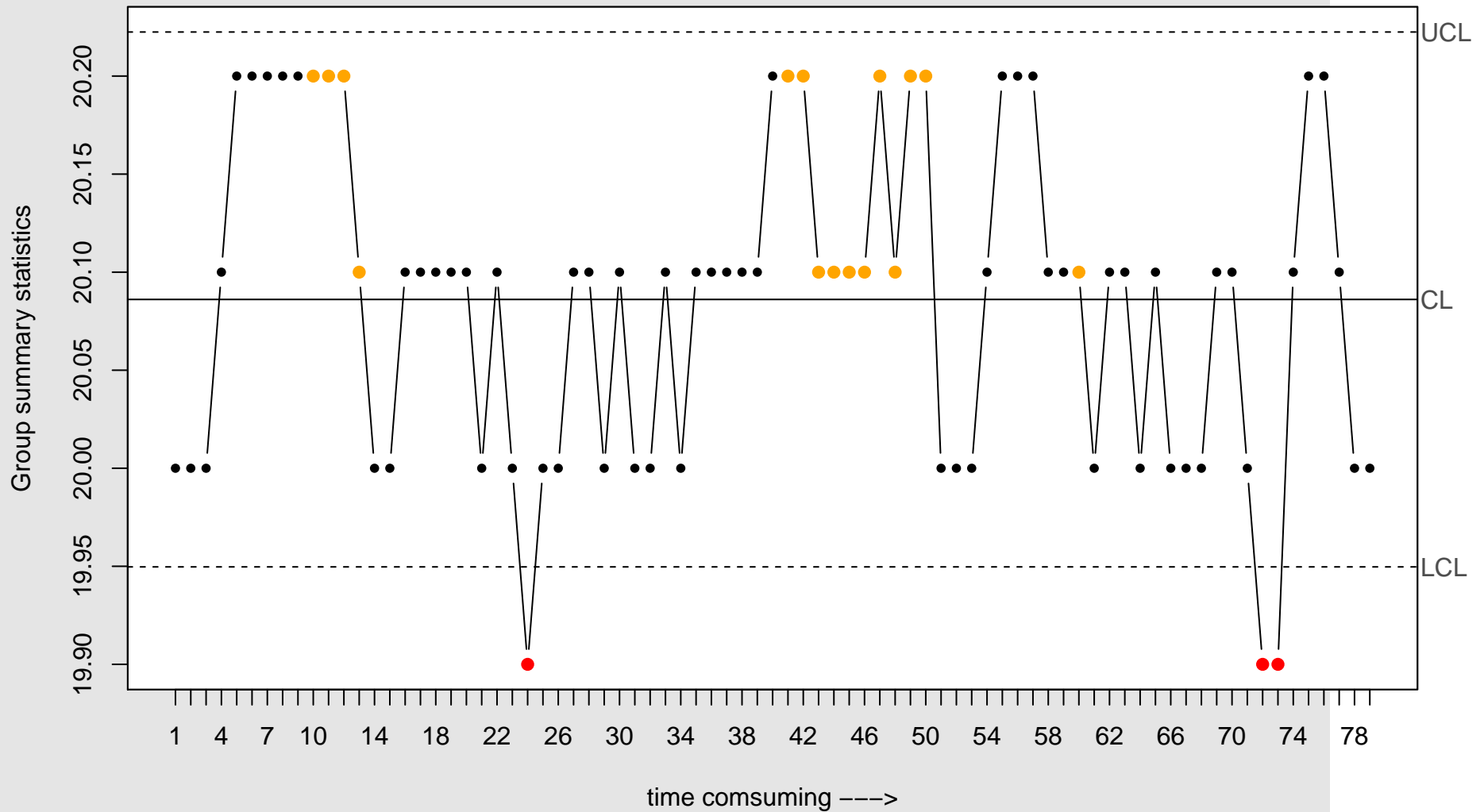


Number of groups = 79
 Center = 20.09241
 StdDev = 0.03977996

LCL = 19.97307
 UCL = 20.21174

Number beyond limits = 6
 Number violating runs = 25

269th column point of this product

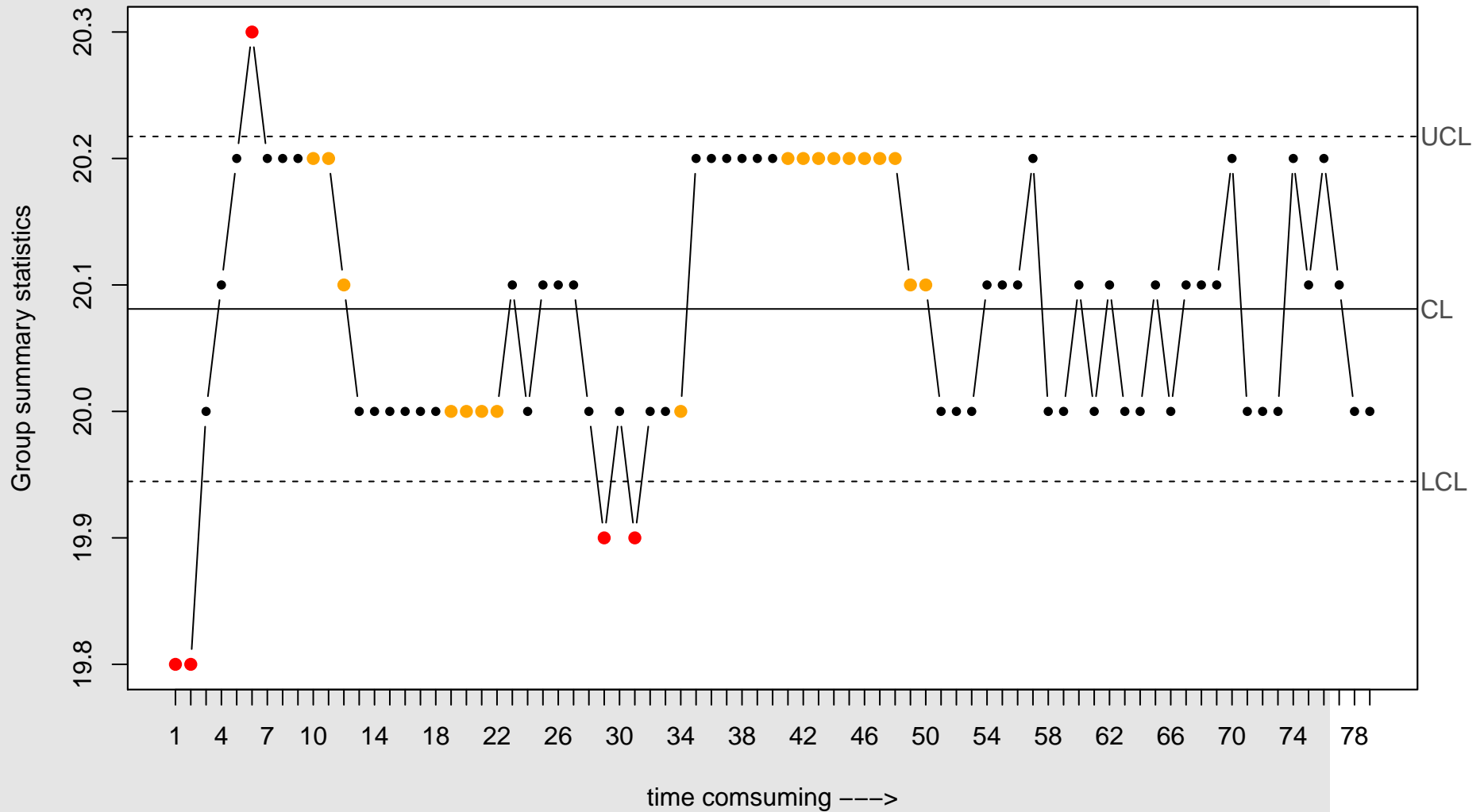


Number of groups = 79
 Center = 20.08608
 StdDev = 0.04546281

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

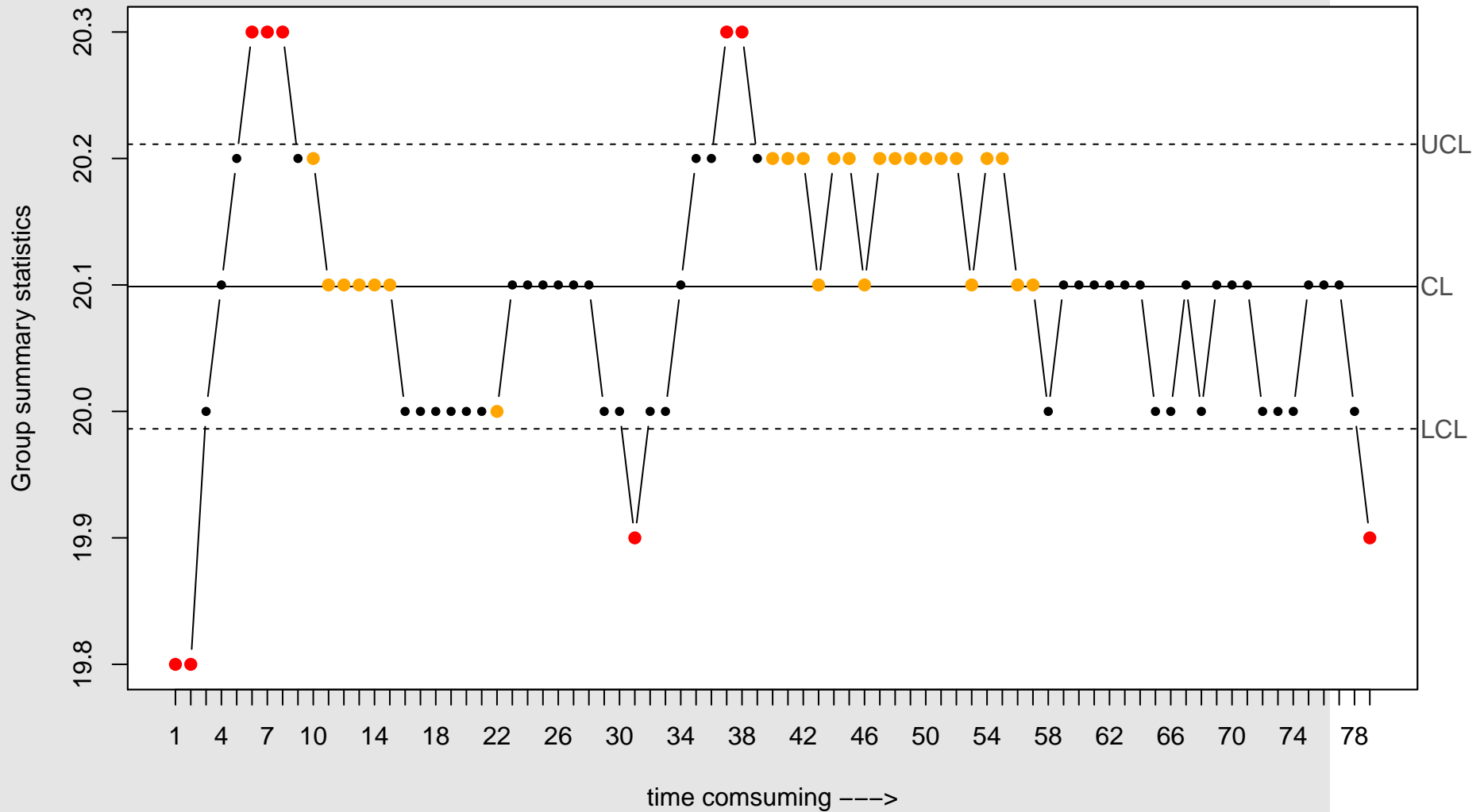
LCL = 19.94462

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

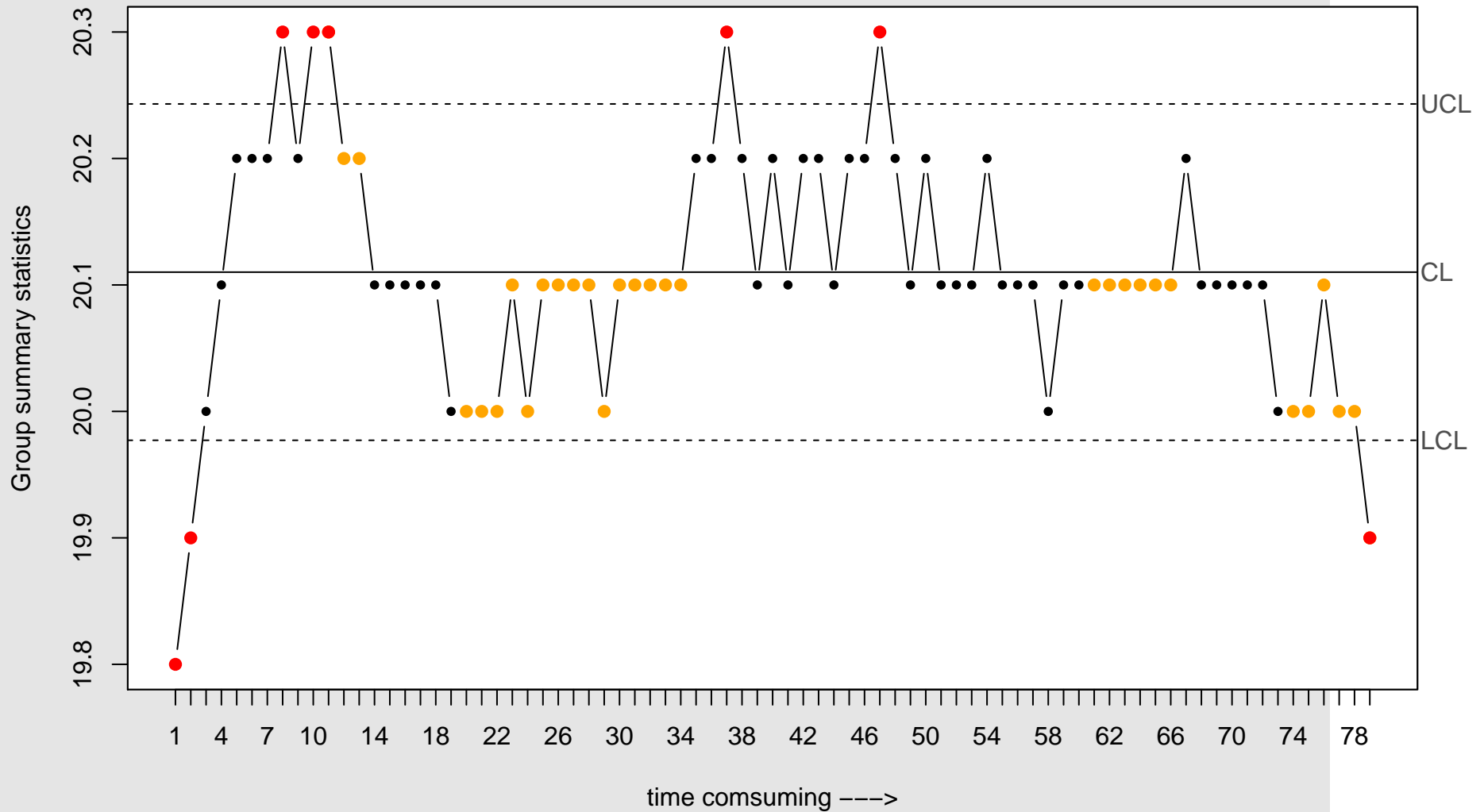
LCL = 19.98621

UCL = 20.21125

Number beyond limits = 9

Number violating runs = 25

272th column point of this product

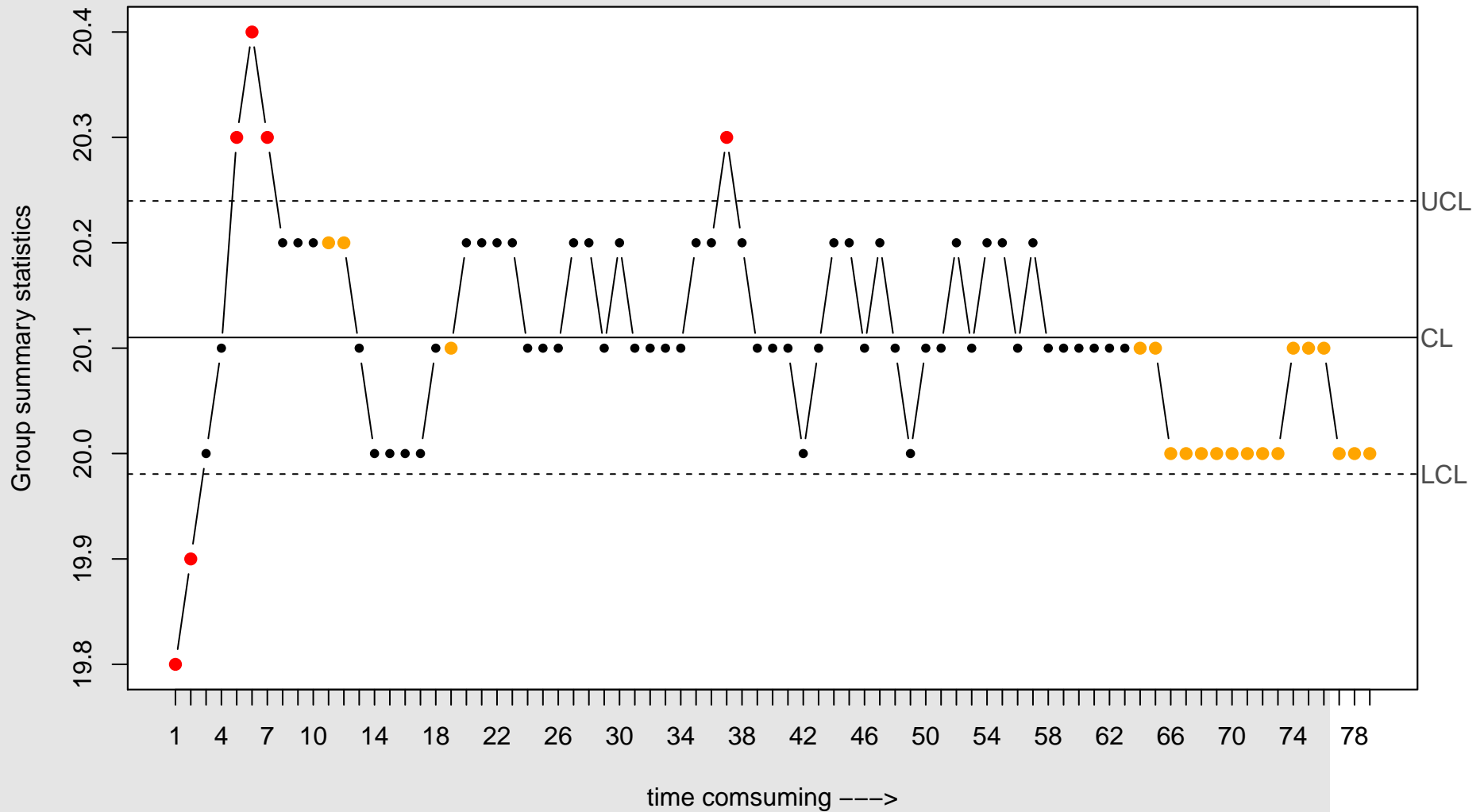


Number of groups = 79
 Center = 20.11013
 StdDev = 0.04432624

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

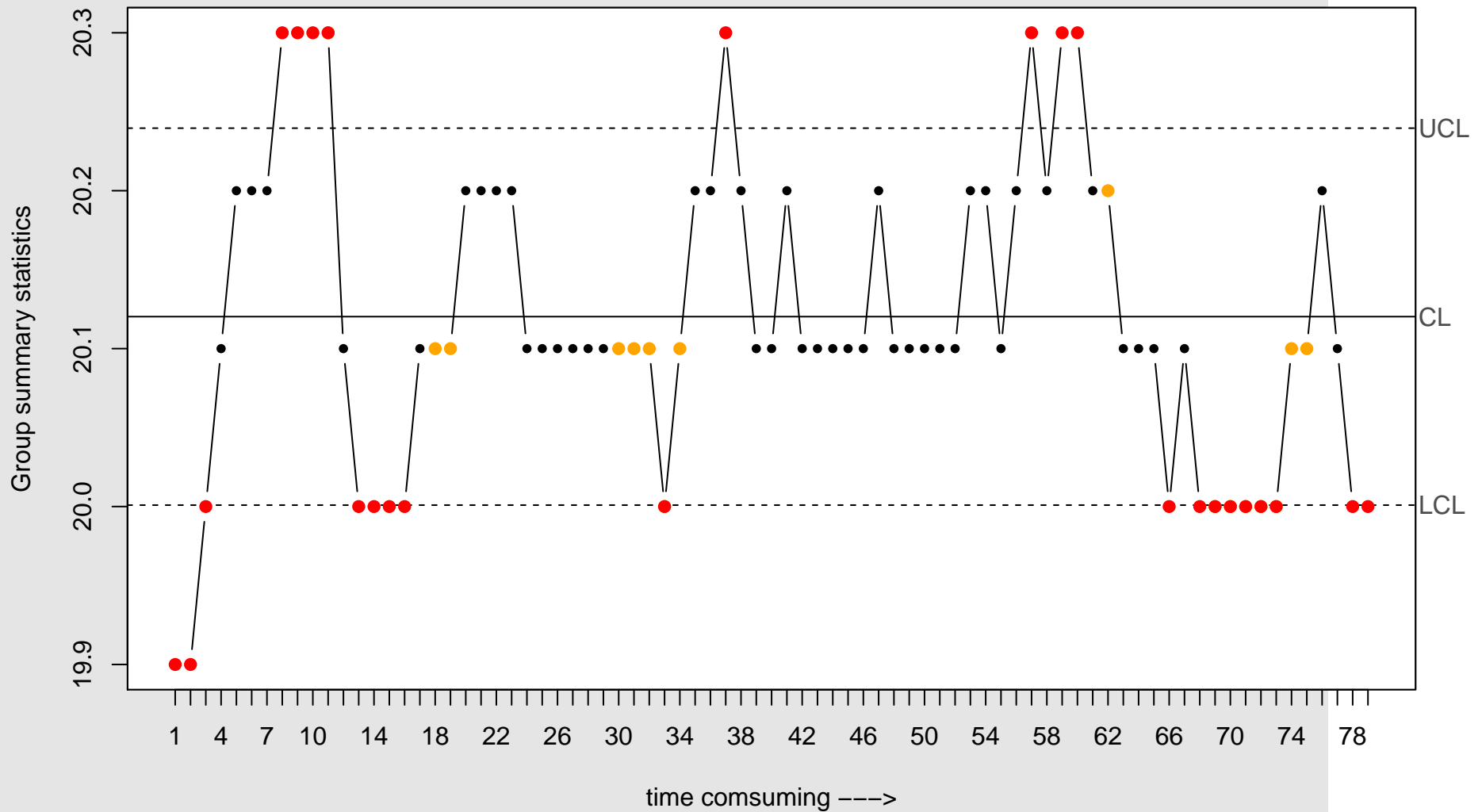
LCL = 19.98056

UCL = 20.2397

Number beyond limits = 6

Number violating runs = 19

274th column point of this product

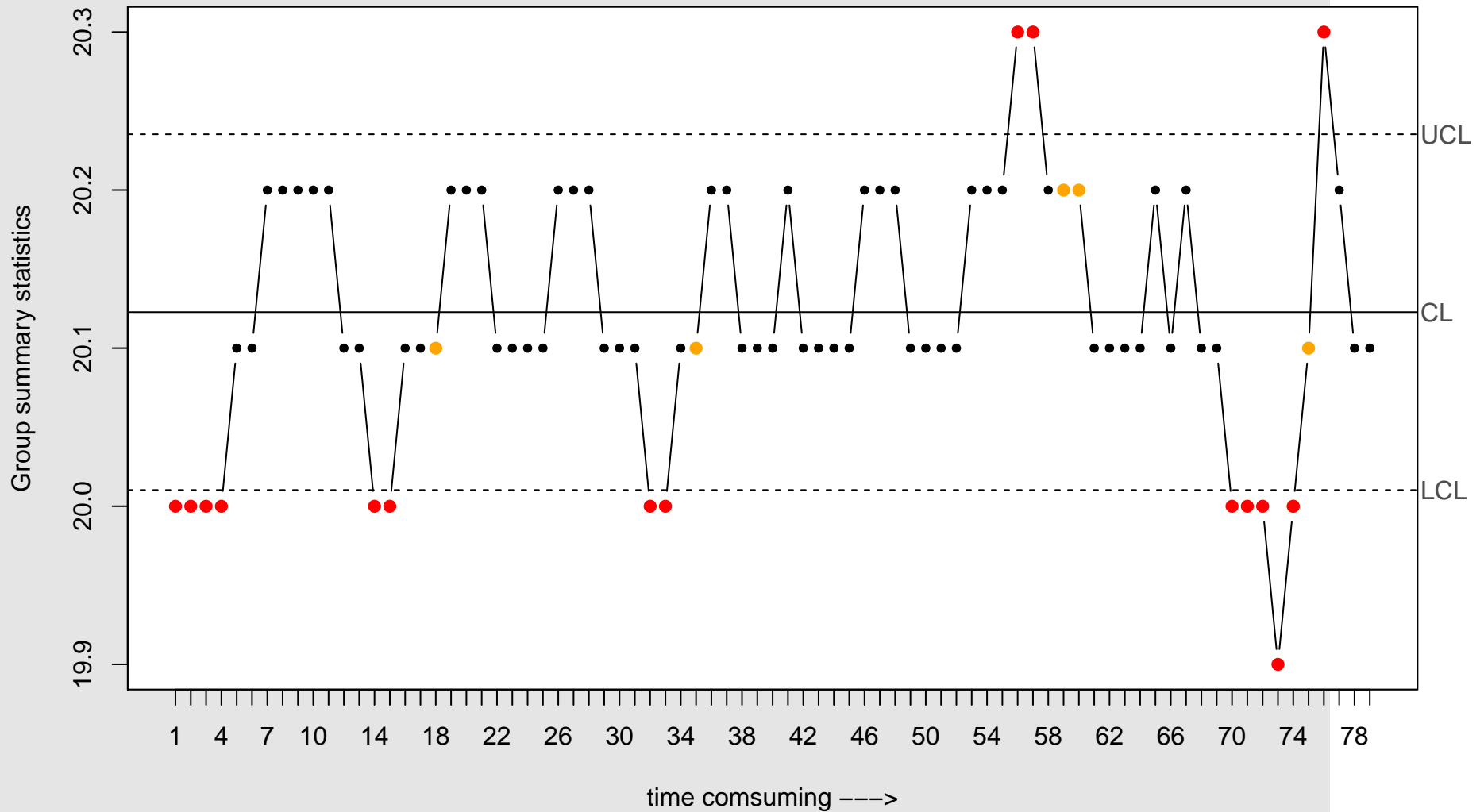


Number of groups = 79
 Center = 20.12025
 StdDev = 0.03977996

LCL = 20.00091
 UCL = 20.23959

Number beyond limits = 25
 Number violating runs = 16

275th column point of this product

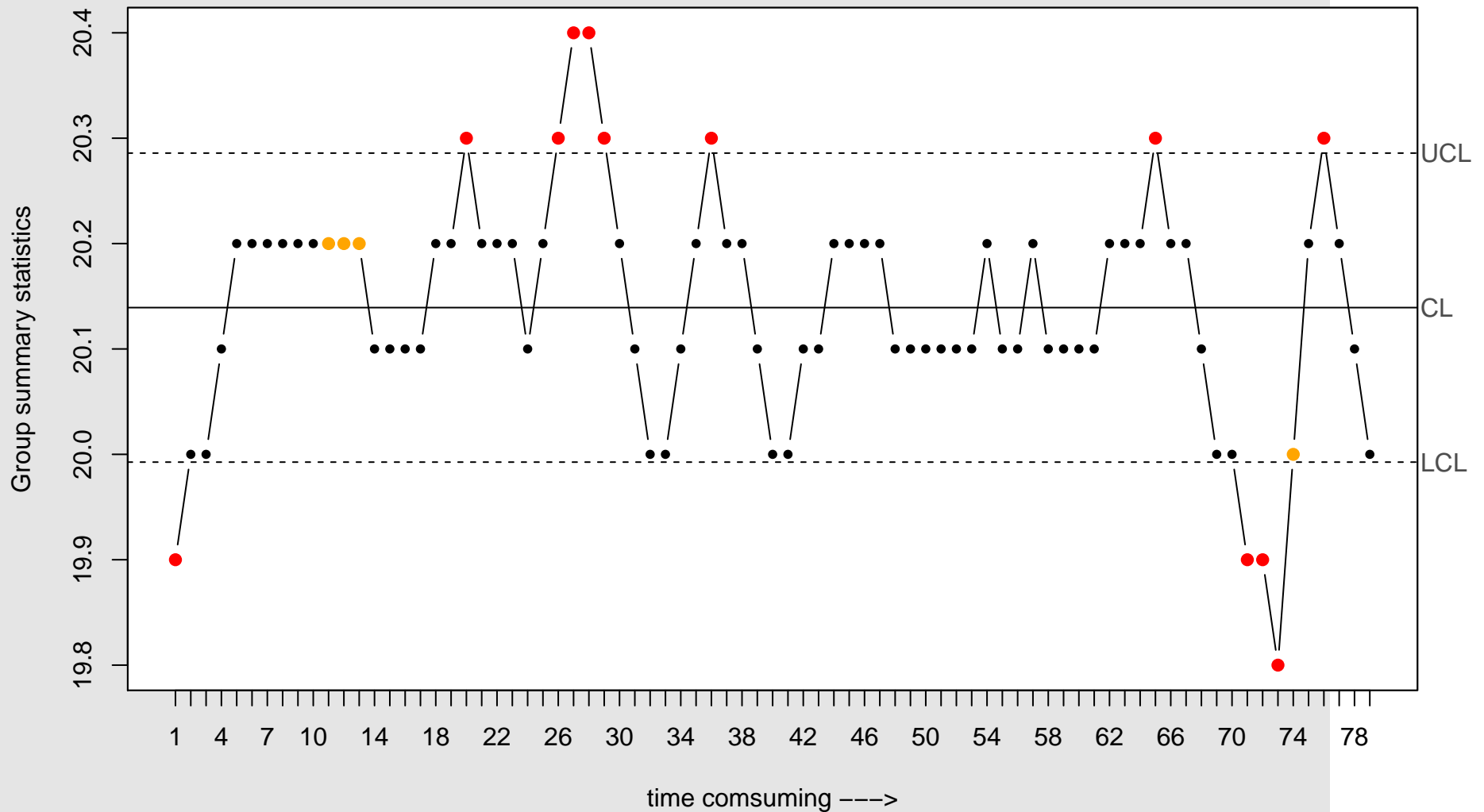


Number of groups = 79
 Center = 20.12278
 StdDev = 0.03750682

LCL = 20.01026
 UCL = 20.23531

Number beyond limits = 16
 Number violating runs = 6

276th column point of this product

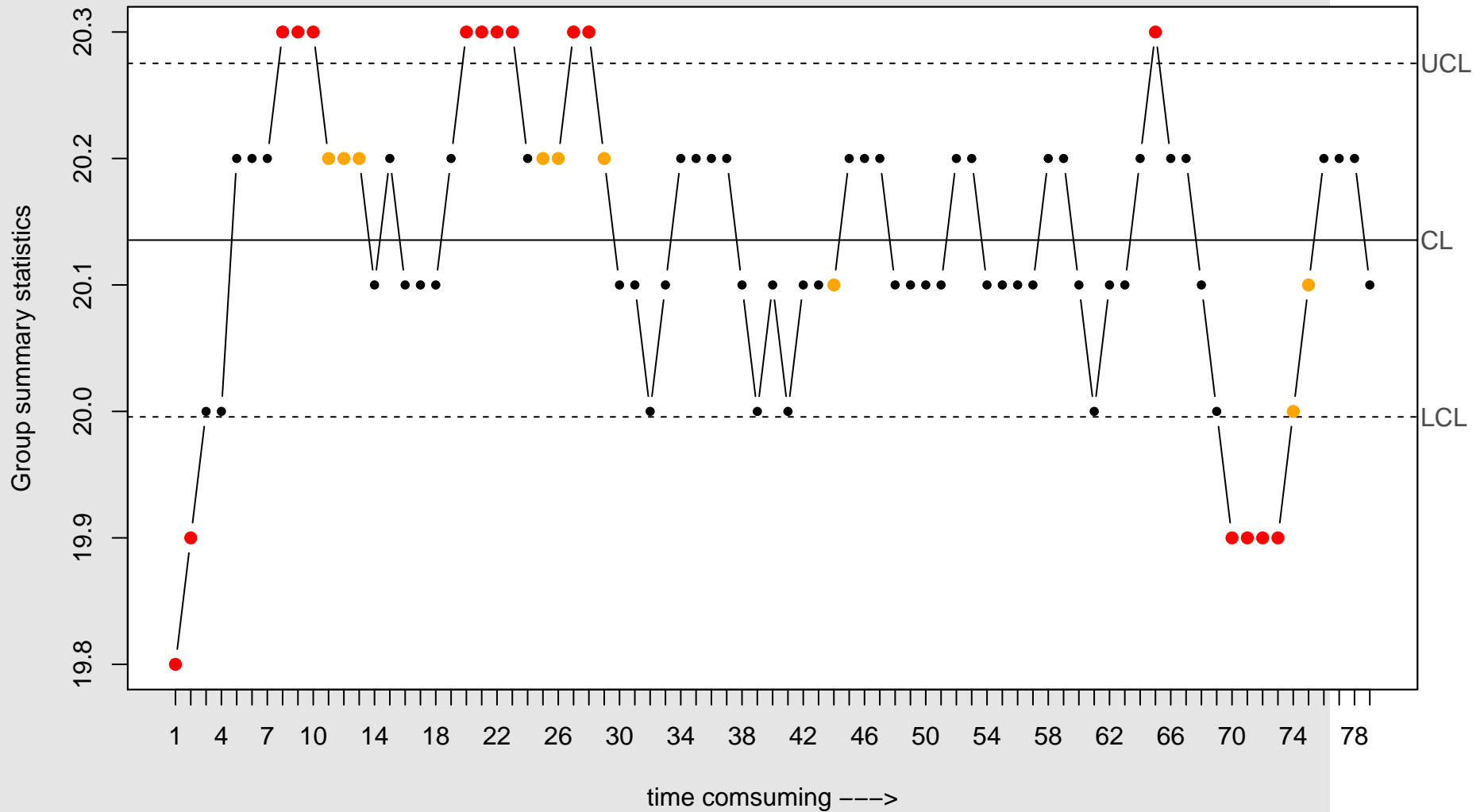


Number of groups = 79
 Center = 20.13924
 StdDev = 0.04887252

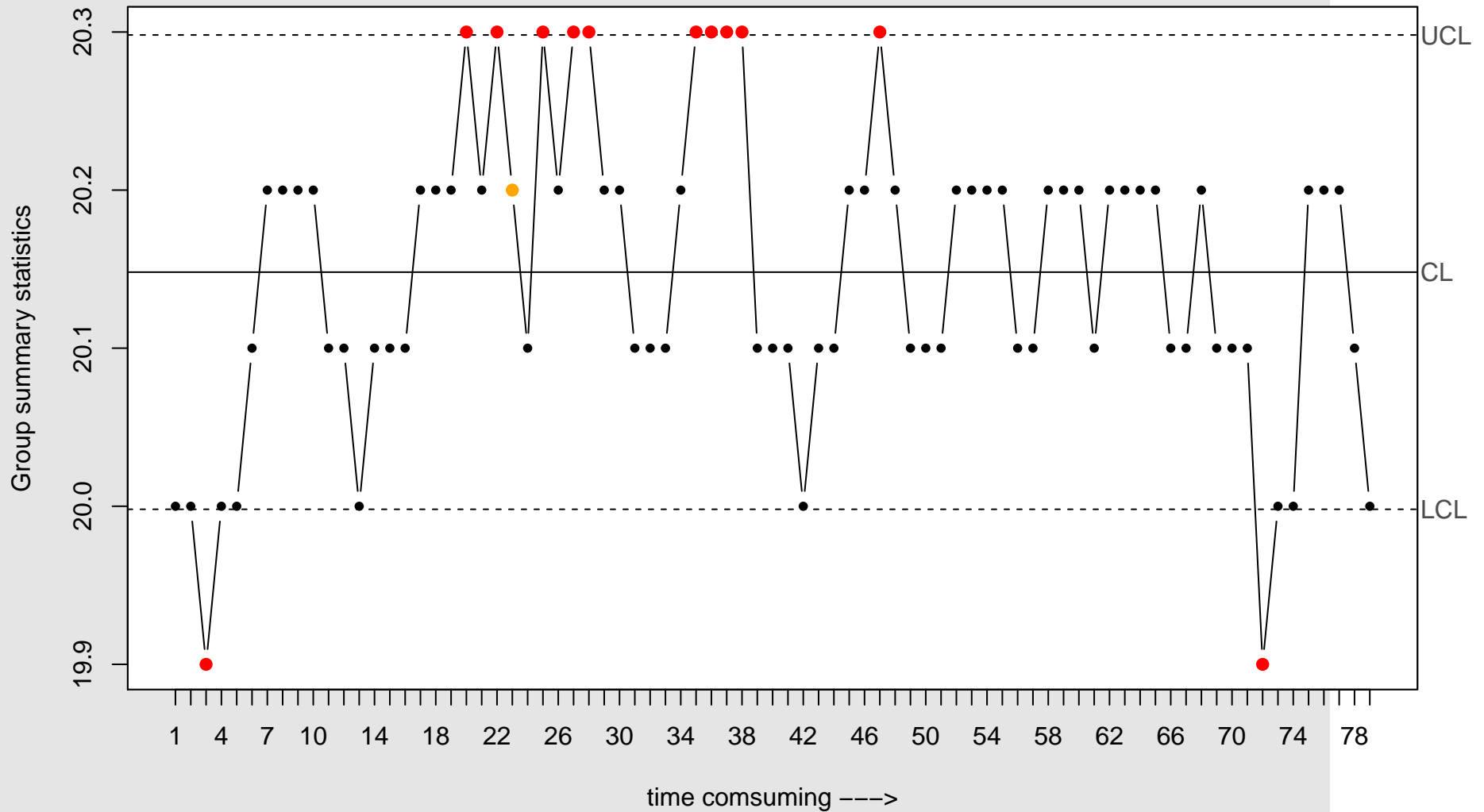
LCL = 19.99262
 UCL = 20.28586

Number beyond limits = 12
 Number violating runs = 4

277th column point of this product



278th column point of this product

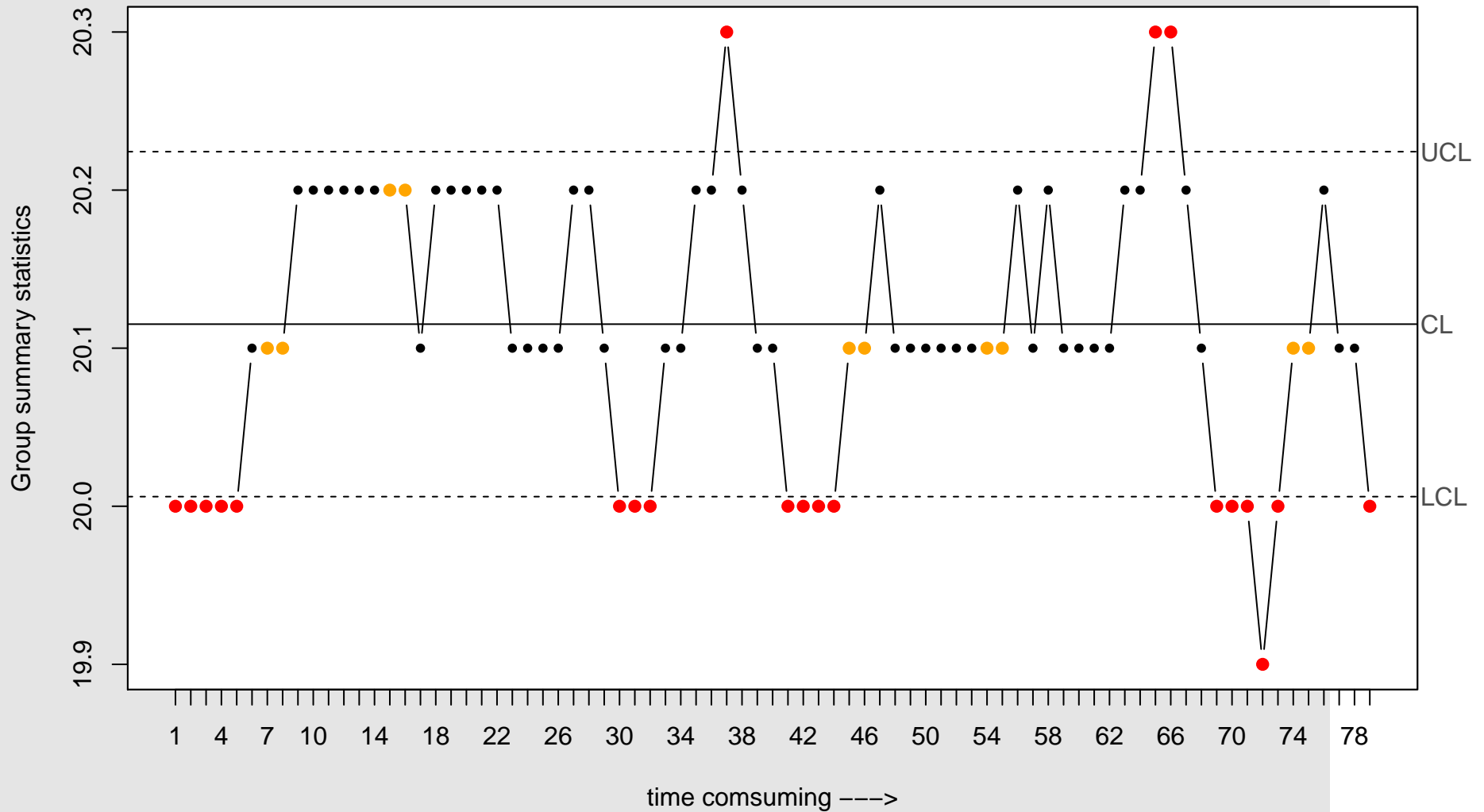


Number of groups = 79
 Center = 20.1481
 StdDev = 0.05000909

LCL = 19.99807
 UCL = 20.29813

Number beyond limits = 12
 Number violating runs = 1

279th column point of this product

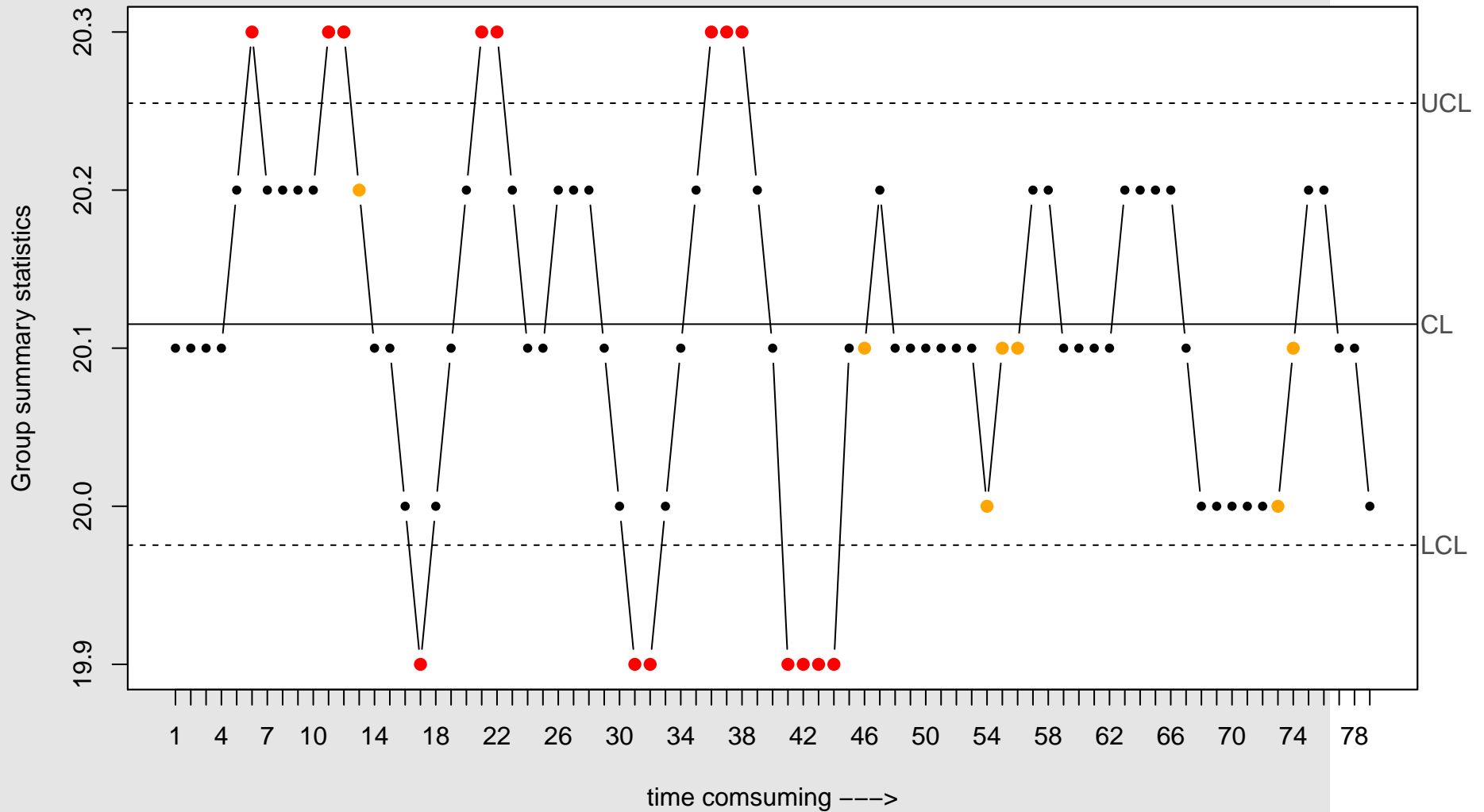


Number of groups = 79
 Center = 20.11519
 StdDev = 0.03637025

LCL = 20.00608
 UCL = 20.2243

Number beyond limits = 21
 Number violating runs = 10

280th column point of this product

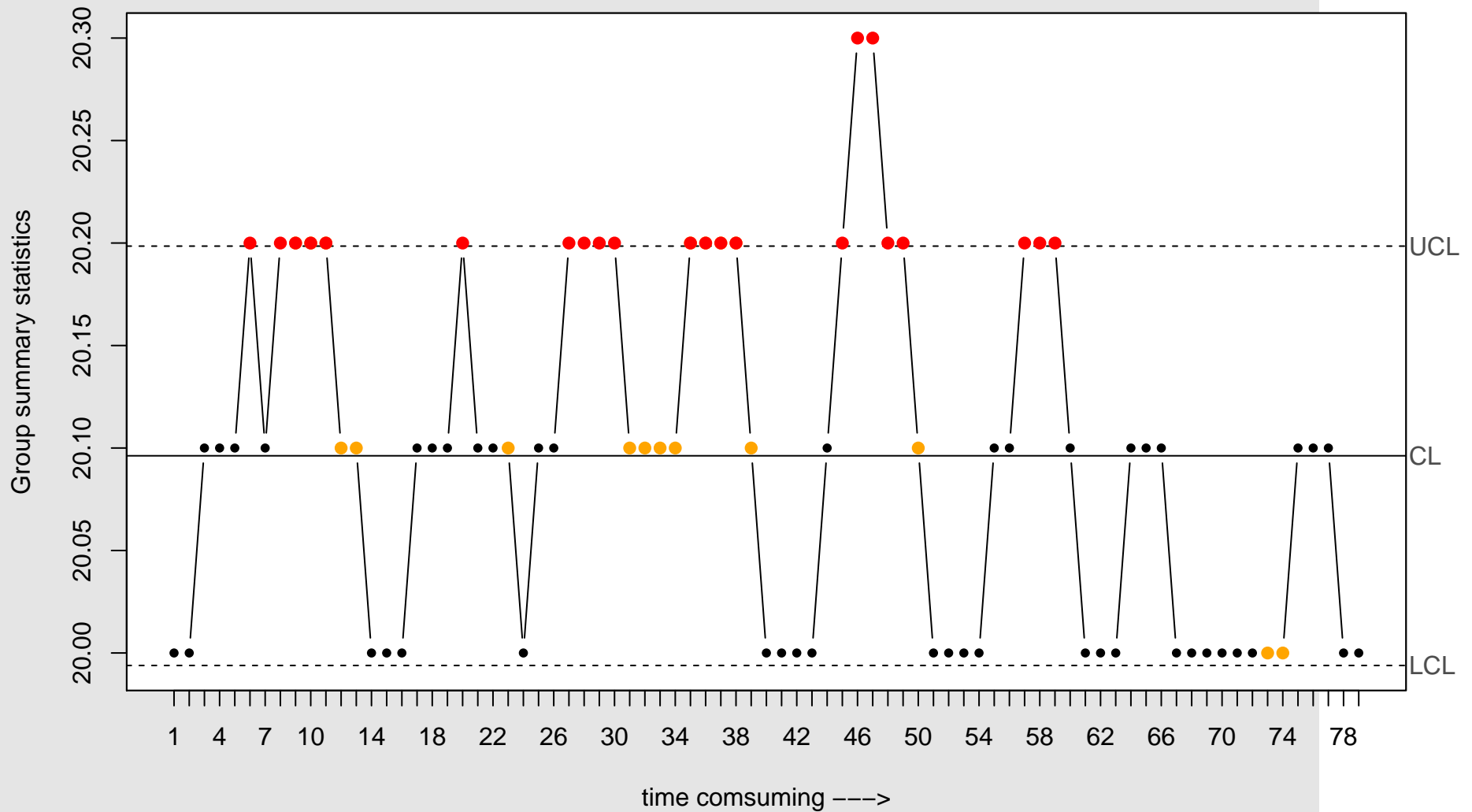


Number of groups = 79
 Center = 20.11519
 StdDev = 0.04659938

LCL = 19.97539
 UCL = 20.25499

Number beyond limits = 15
 Number violating runs = 9

281th column point of this product

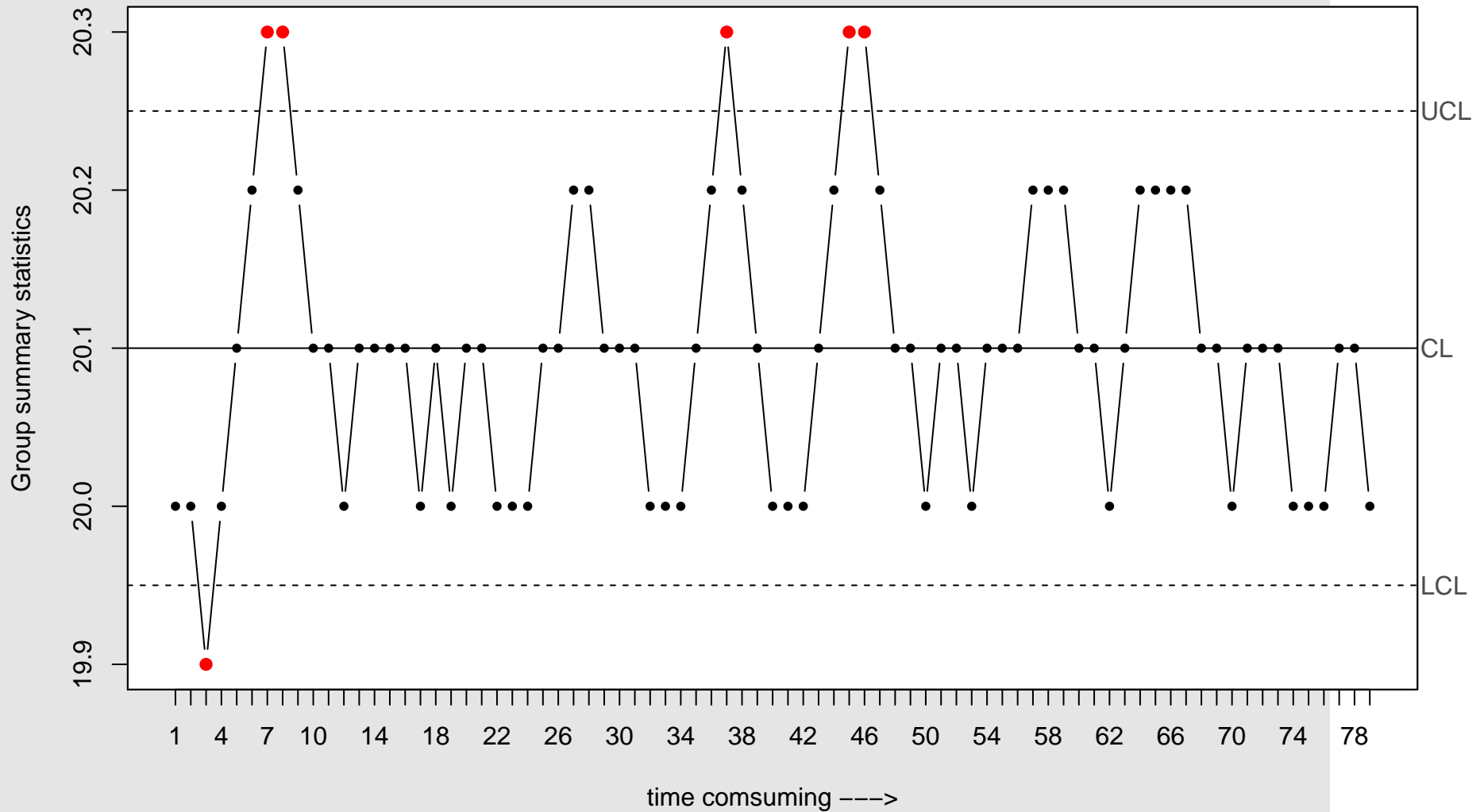


Number of groups = 79
 Center = 20.0962
 StdDev = 0.03409711

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

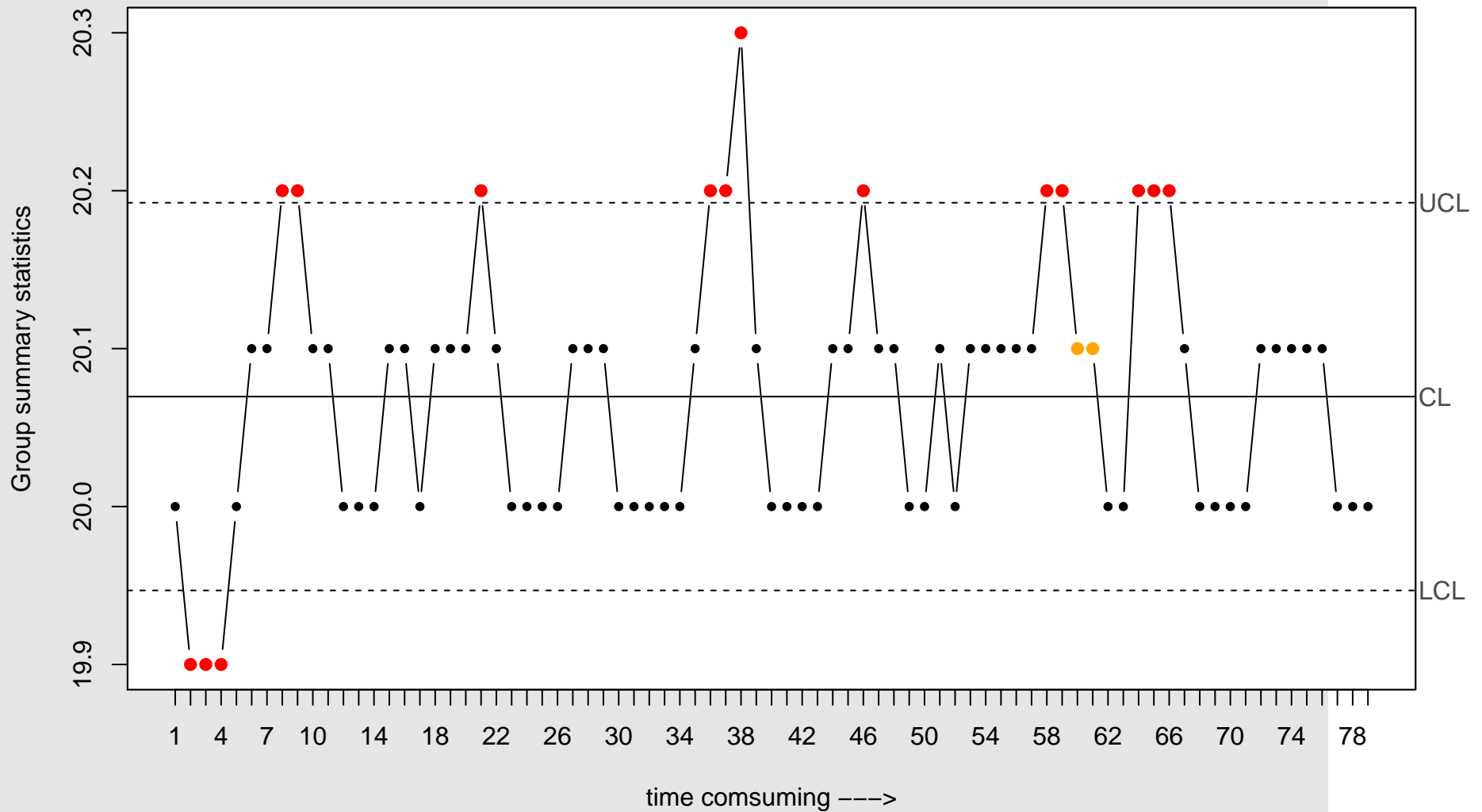
LCL = 19.94997

UCL = 20.25003

Number beyond limits = 6

Number violating runs = 0

283th column point of this product

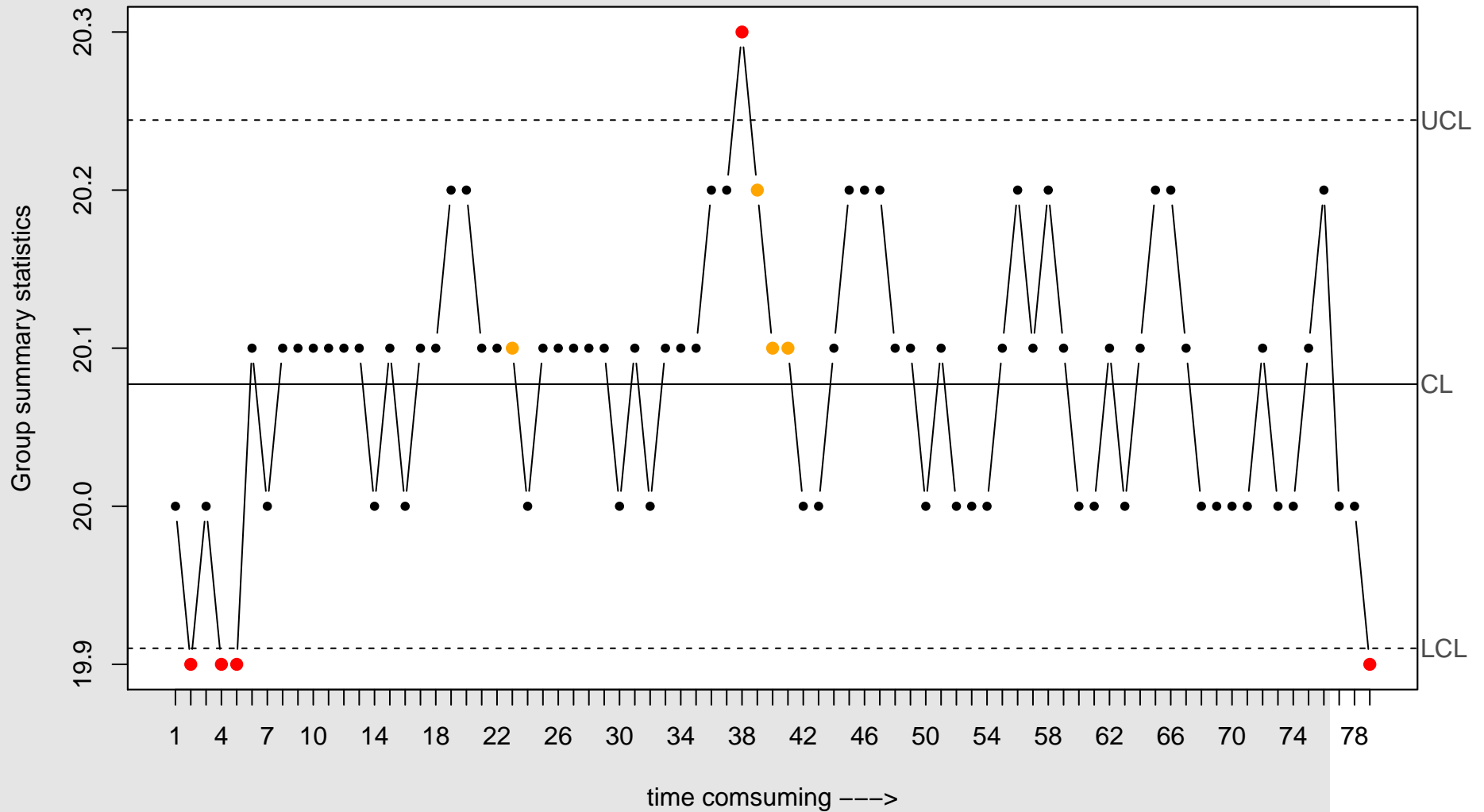


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04091653

LCL = 19.94687
 UCL = 20.19237

Number beyond limits = 15
 Number violating runs = 3

284th column point of this product

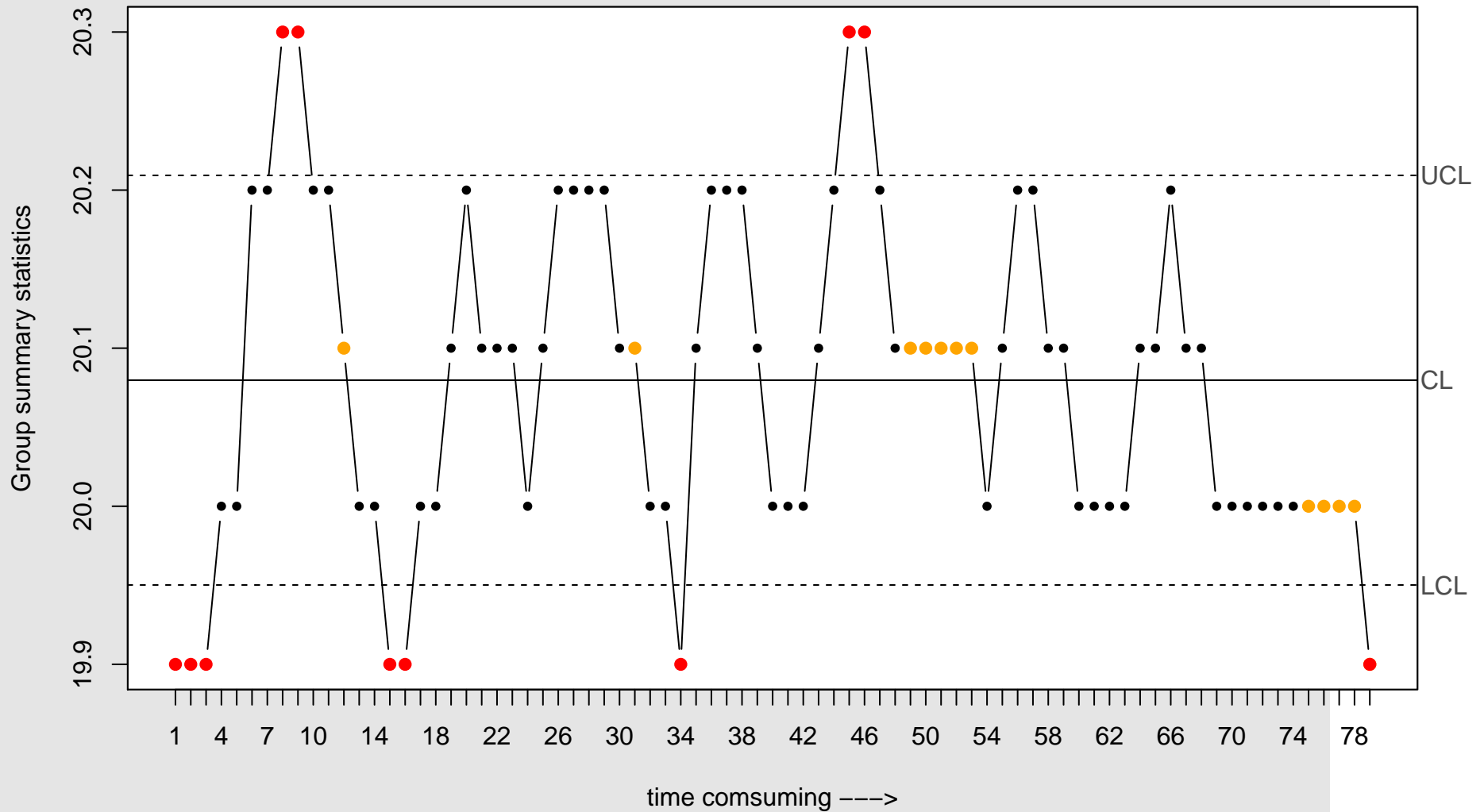


Number of groups = 79
 Center = 20.07722
 StdDev = 0.05569194

LCL = 19.91014
 UCL = 20.24429

Number beyond limits = 5
 Number violating runs = 4

285th column point of this product



Number of groups = 79

Center = 20.07975

StdDev = 0.04318967

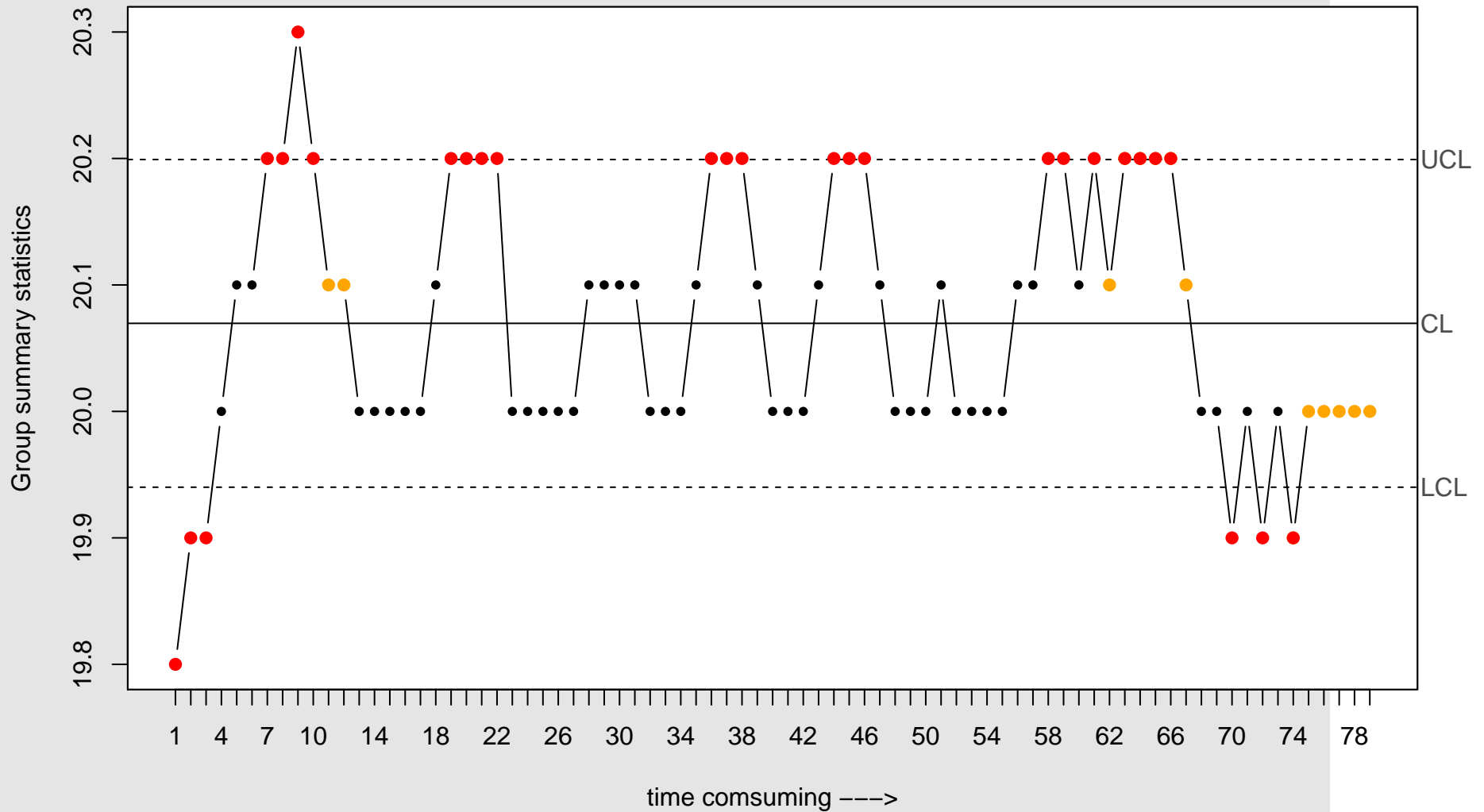
LCL = 19.95018

UCL = 20.20932

Number beyond limits = 11

Number violating runs = 12

286th column point of this product

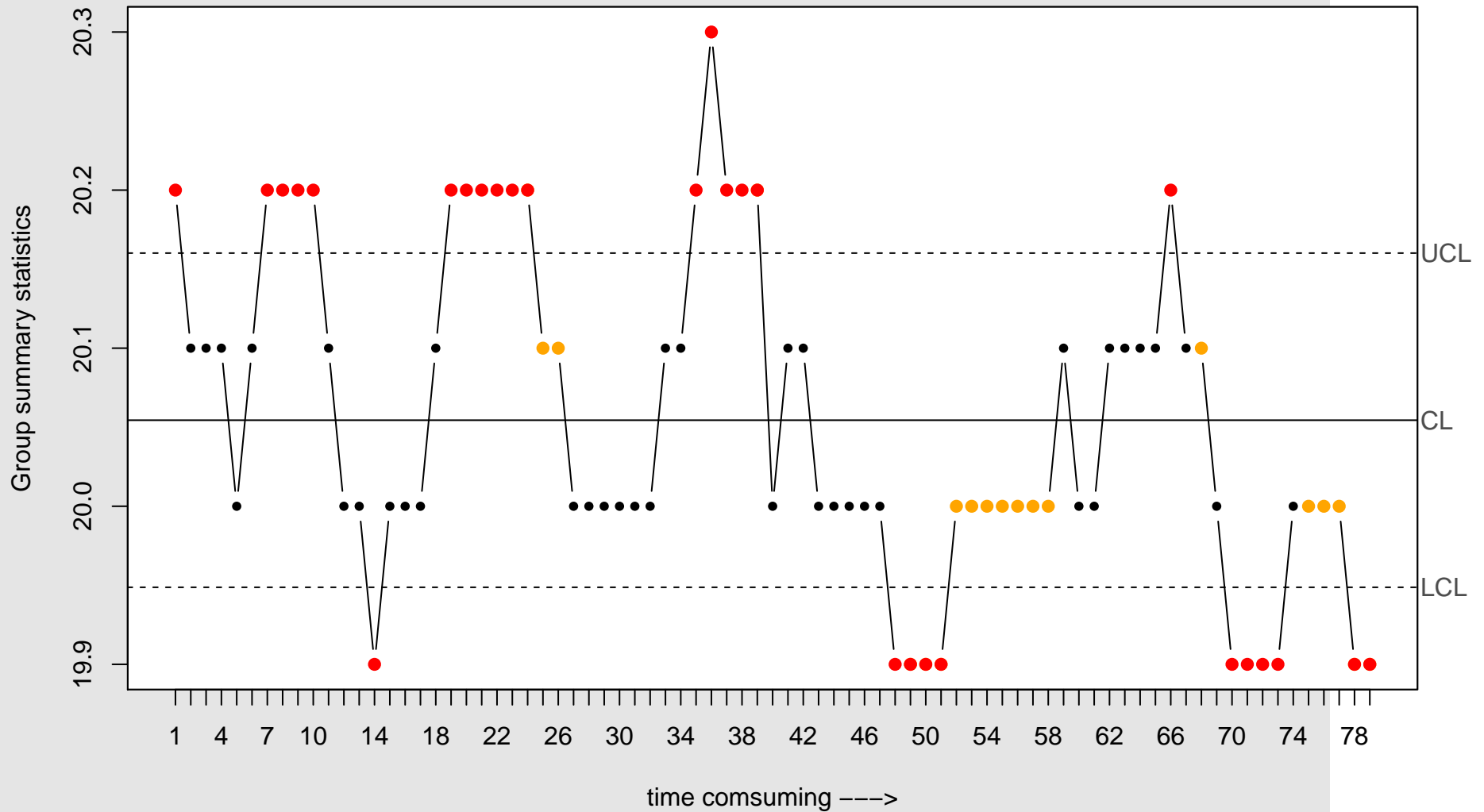


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04318967

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

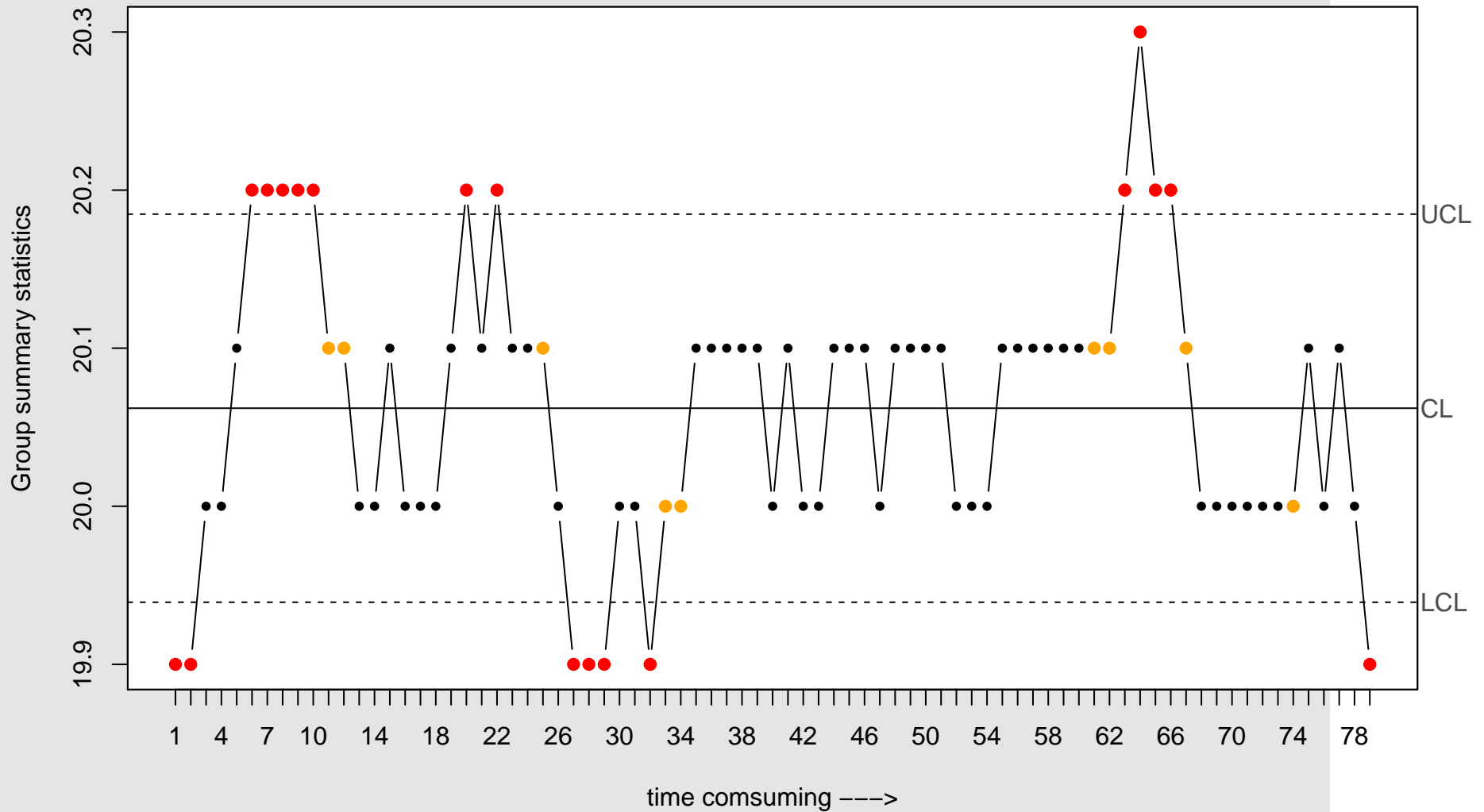
LCL = 19.94873

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

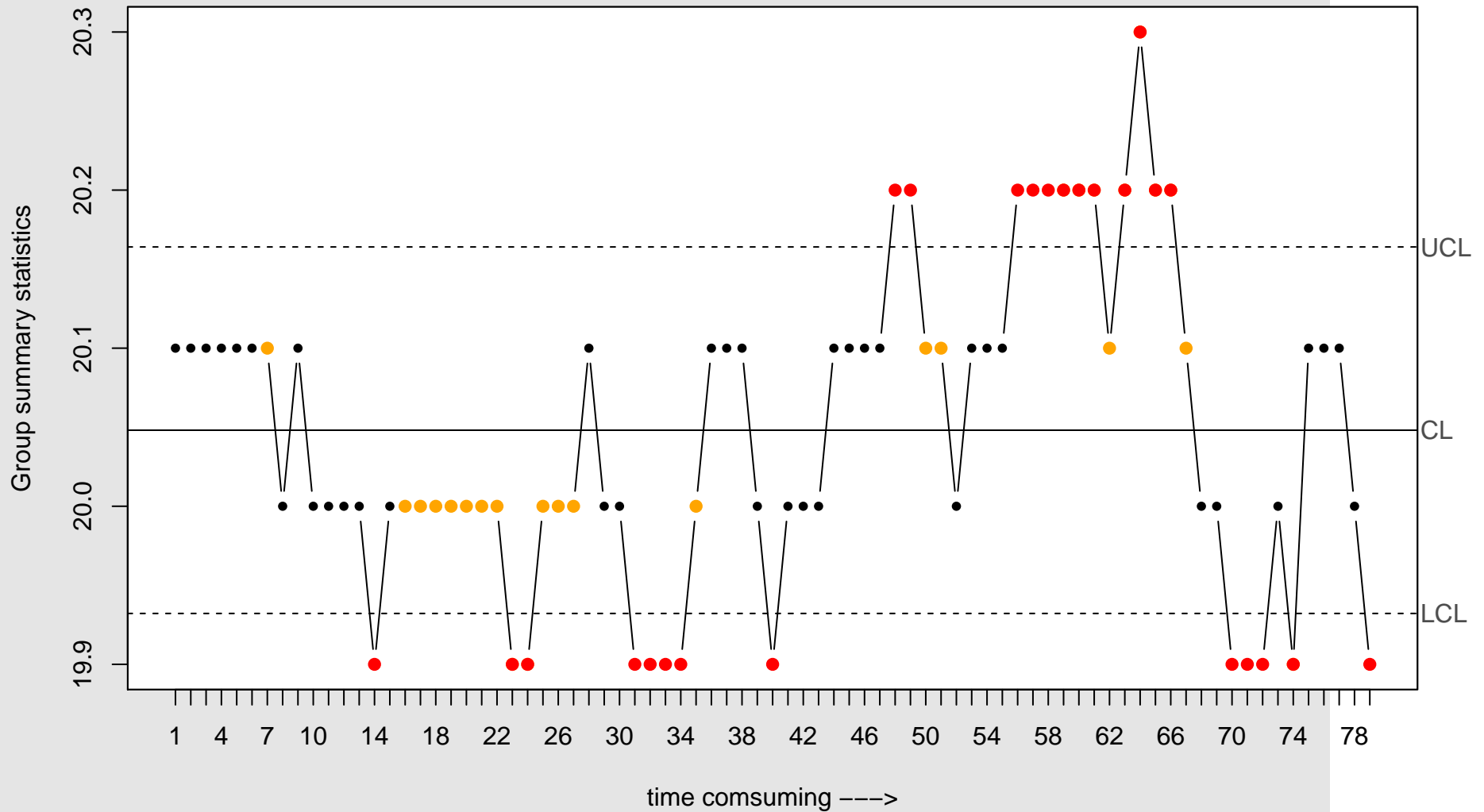
LCL = 19.93928

UCL = 20.18477

Number beyond limits = 18

Number violating runs = 14

289th column point of this product

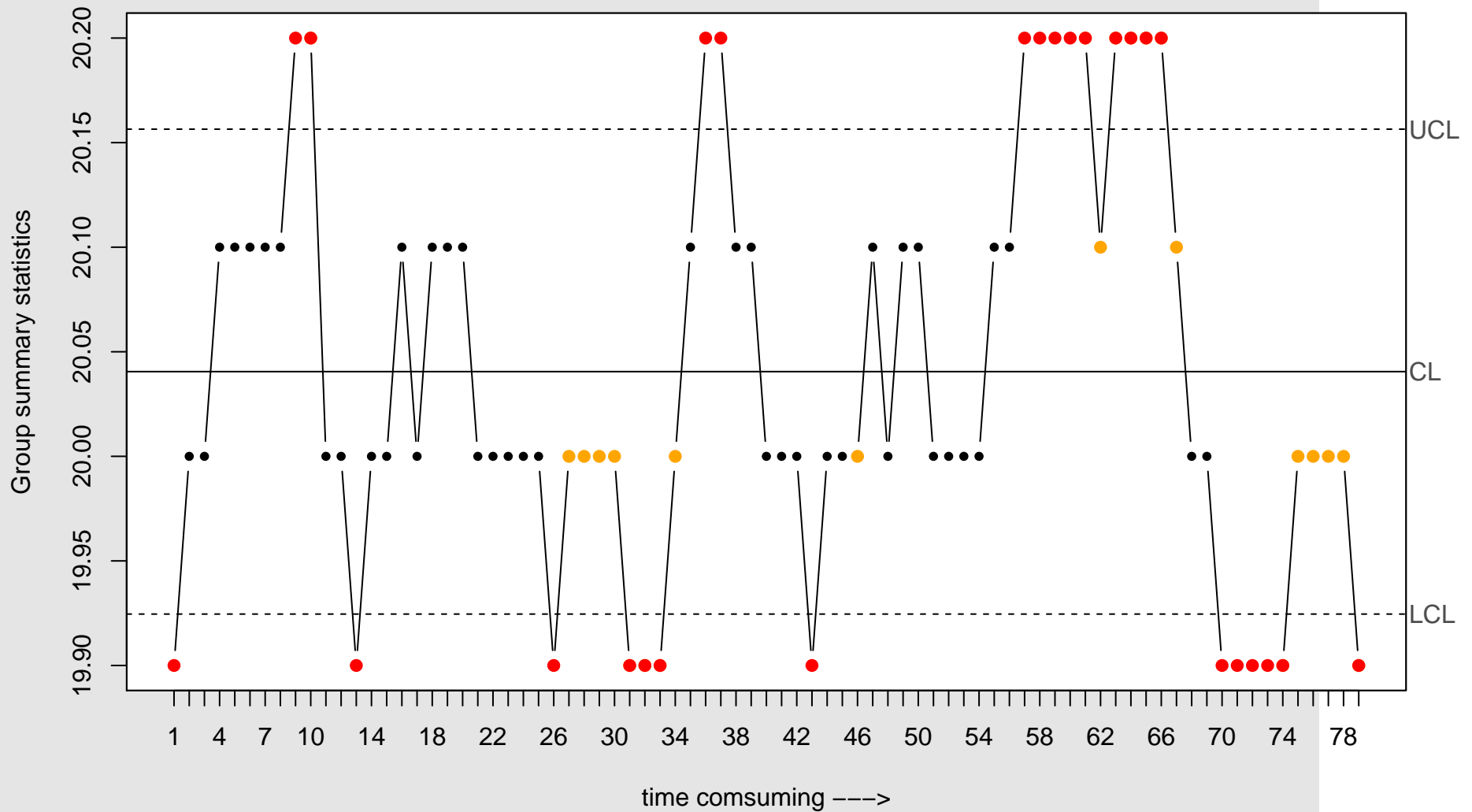


Number of groups = 79
Center = 20.0481
StdDev = 0.03864339

LCL = 19.93217
UCL = 20.16403

Number beyond limits = 25
Number violating runs = 26

290th column point of this product

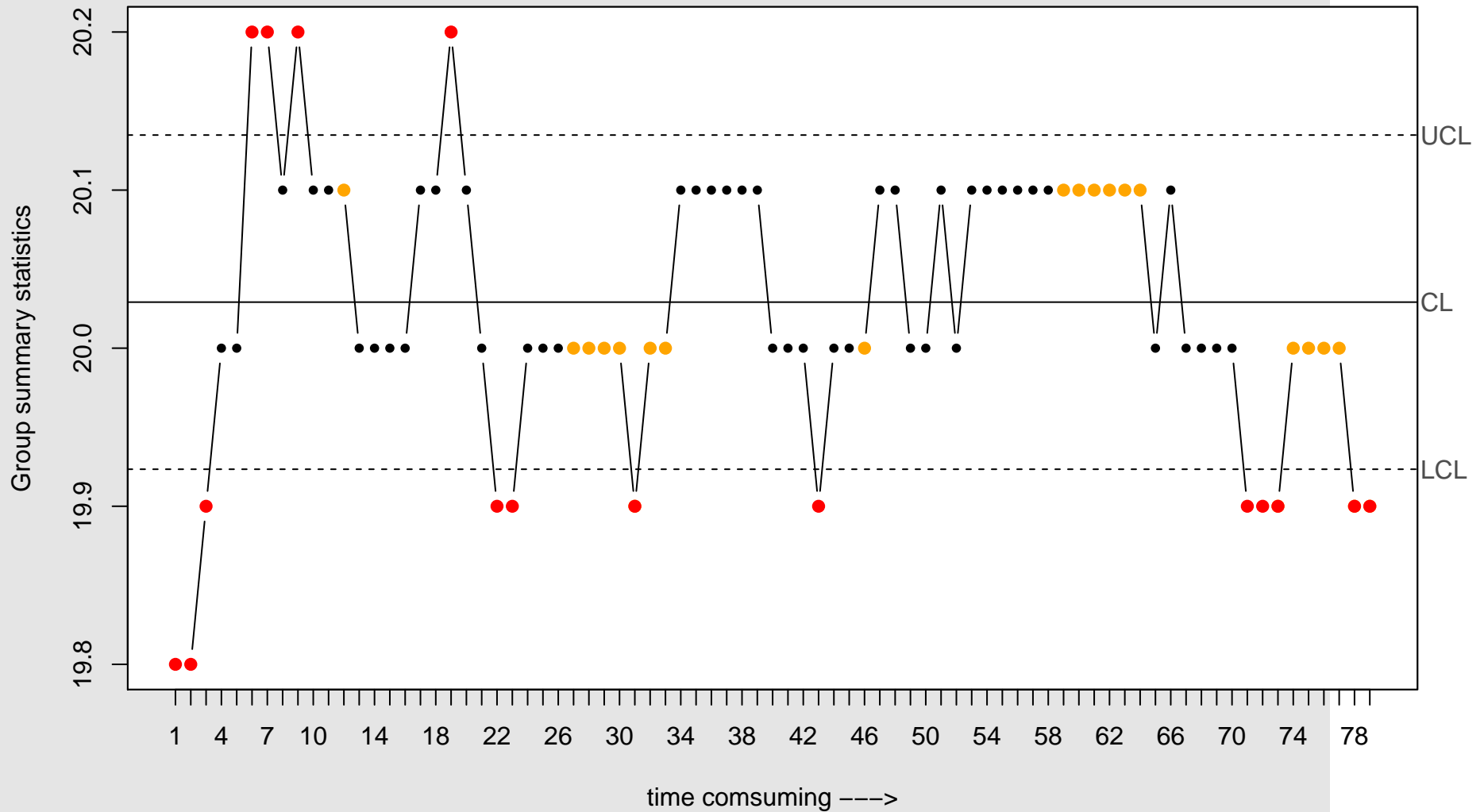


Number of groups = 79
 Center = 20.04051
 StdDev = 0.03864339

LCL = 19.92458
 UCL = 20.15644

Number beyond limits = 26
 Number violating runs = 23

291th column point of this product

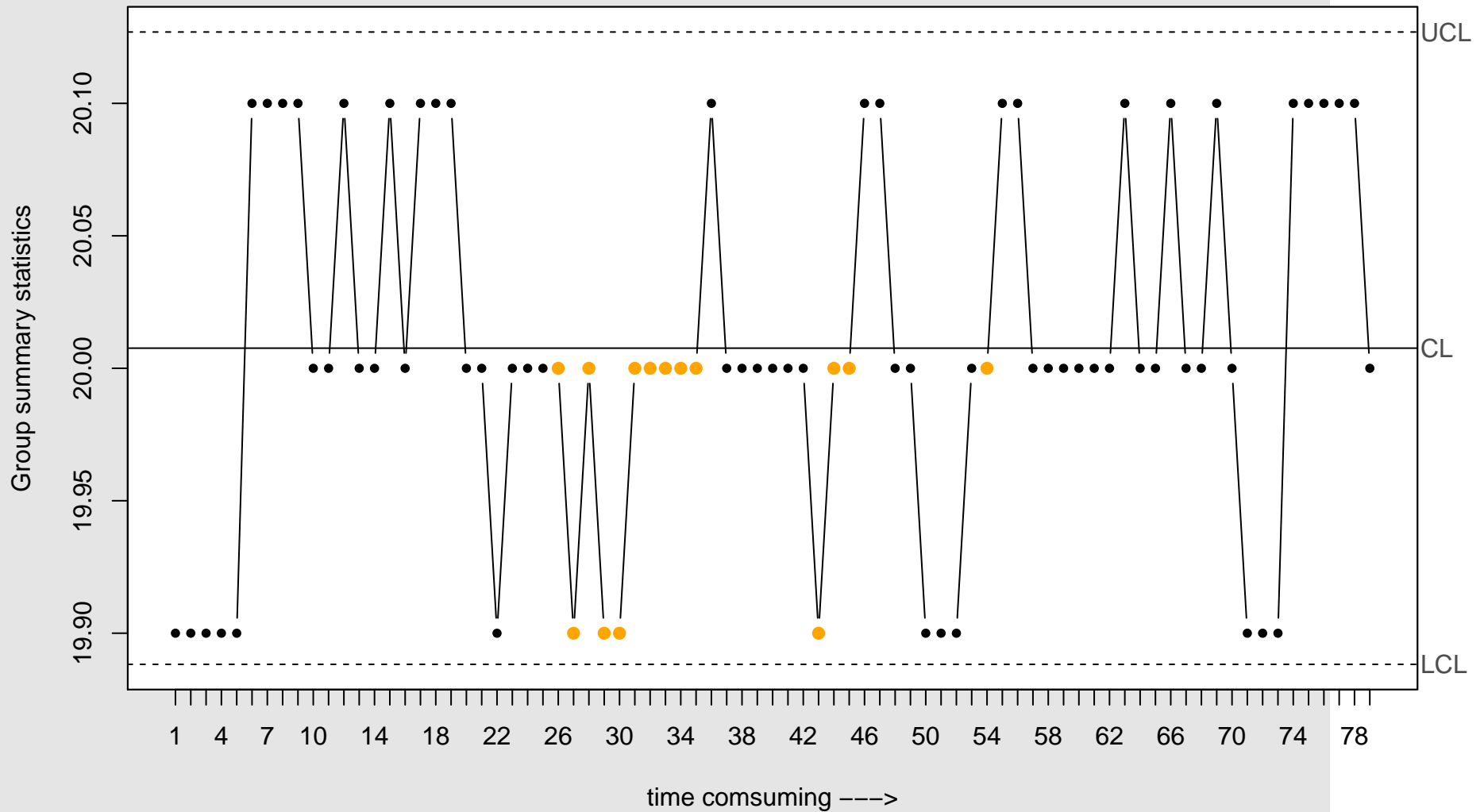


Number of groups = 79
 Center = 20.02911
 StdDev = 0.03523368

LCL = 19.92341
 UCL = 20.13481

Number beyond limits = 16
 Number violating runs = 22

292th column point of this product

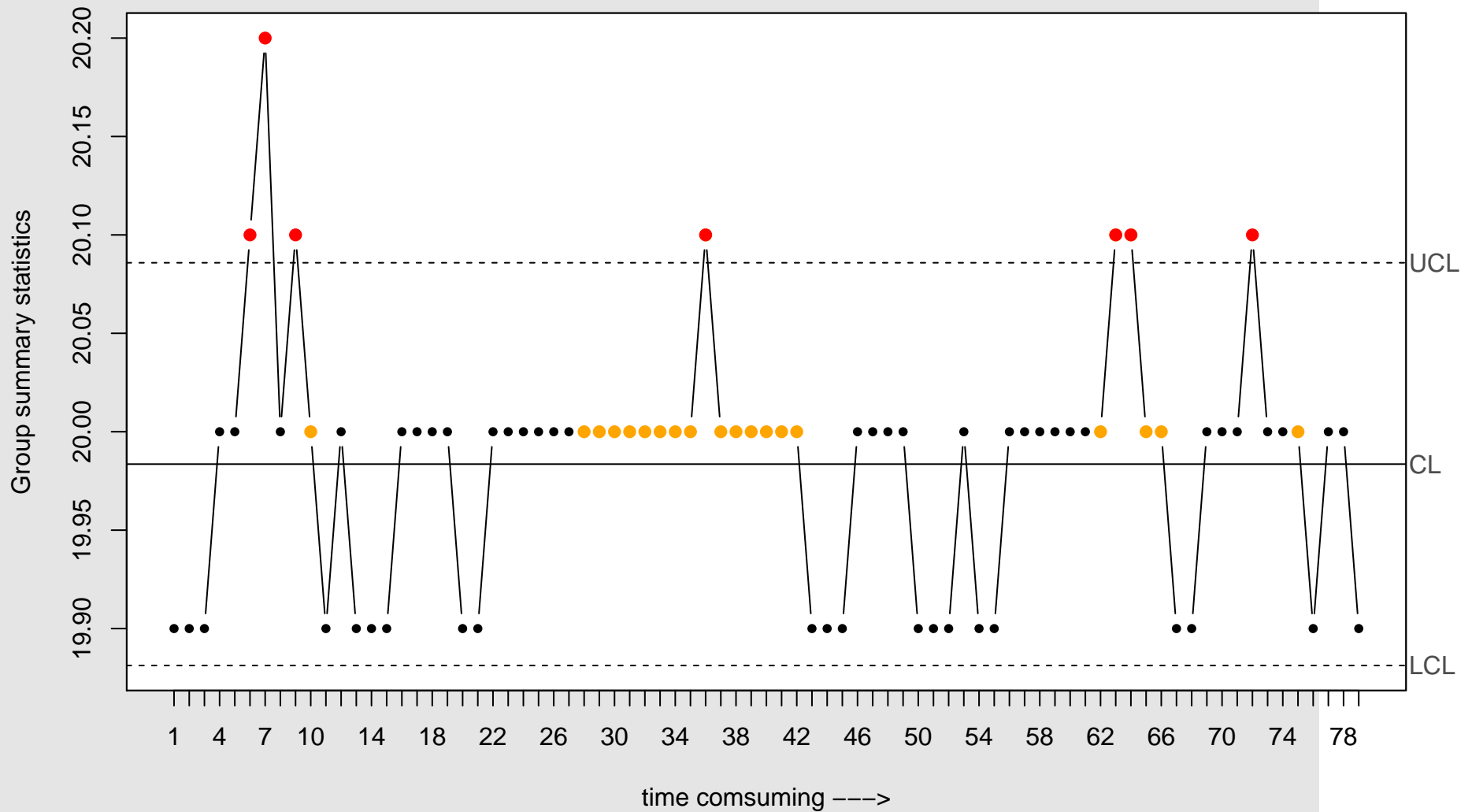


Number of groups = 79
 Center = 20.00759
 StdDev = 0.03977996

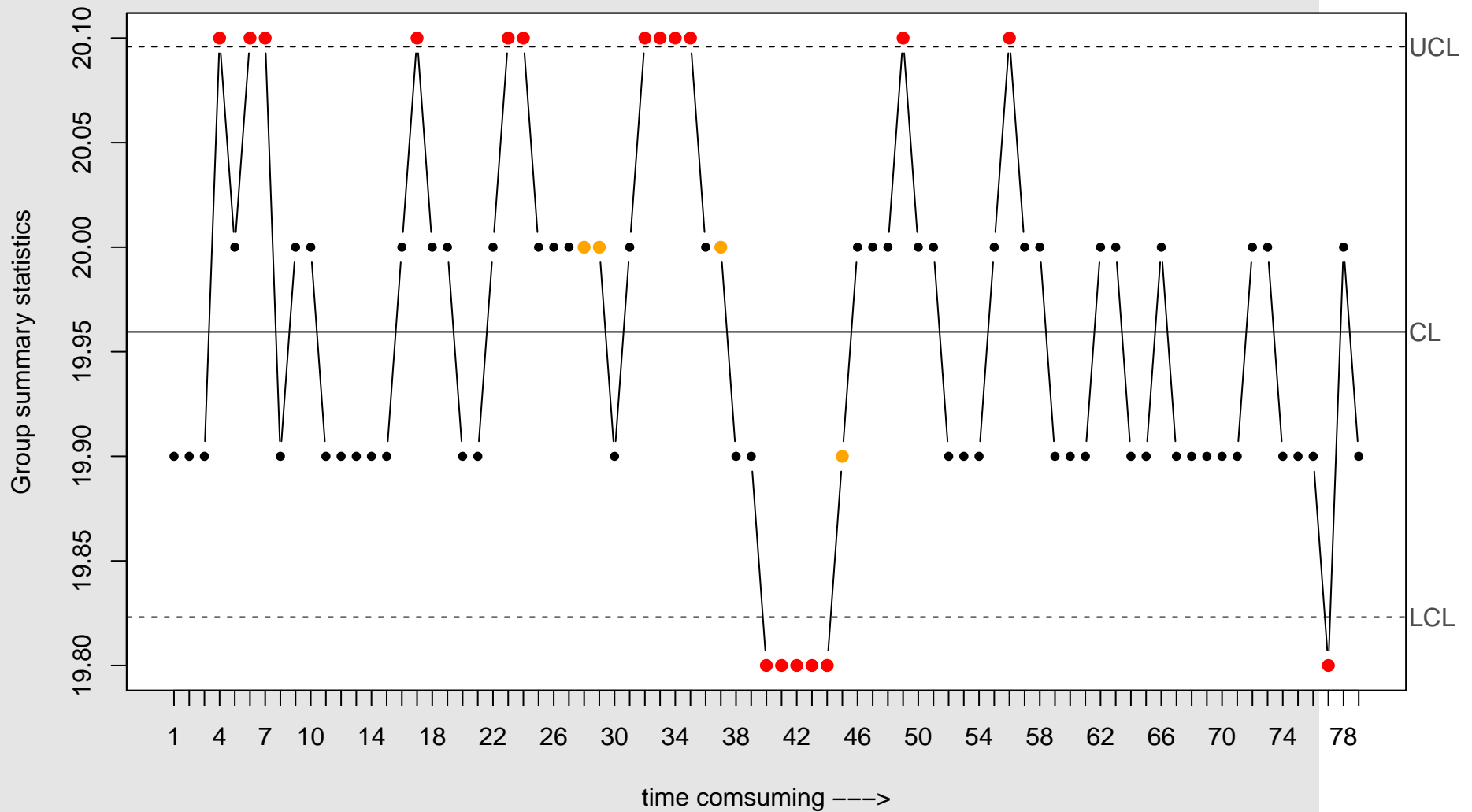
LCL = 19.88826
 UCL = 20.12693

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

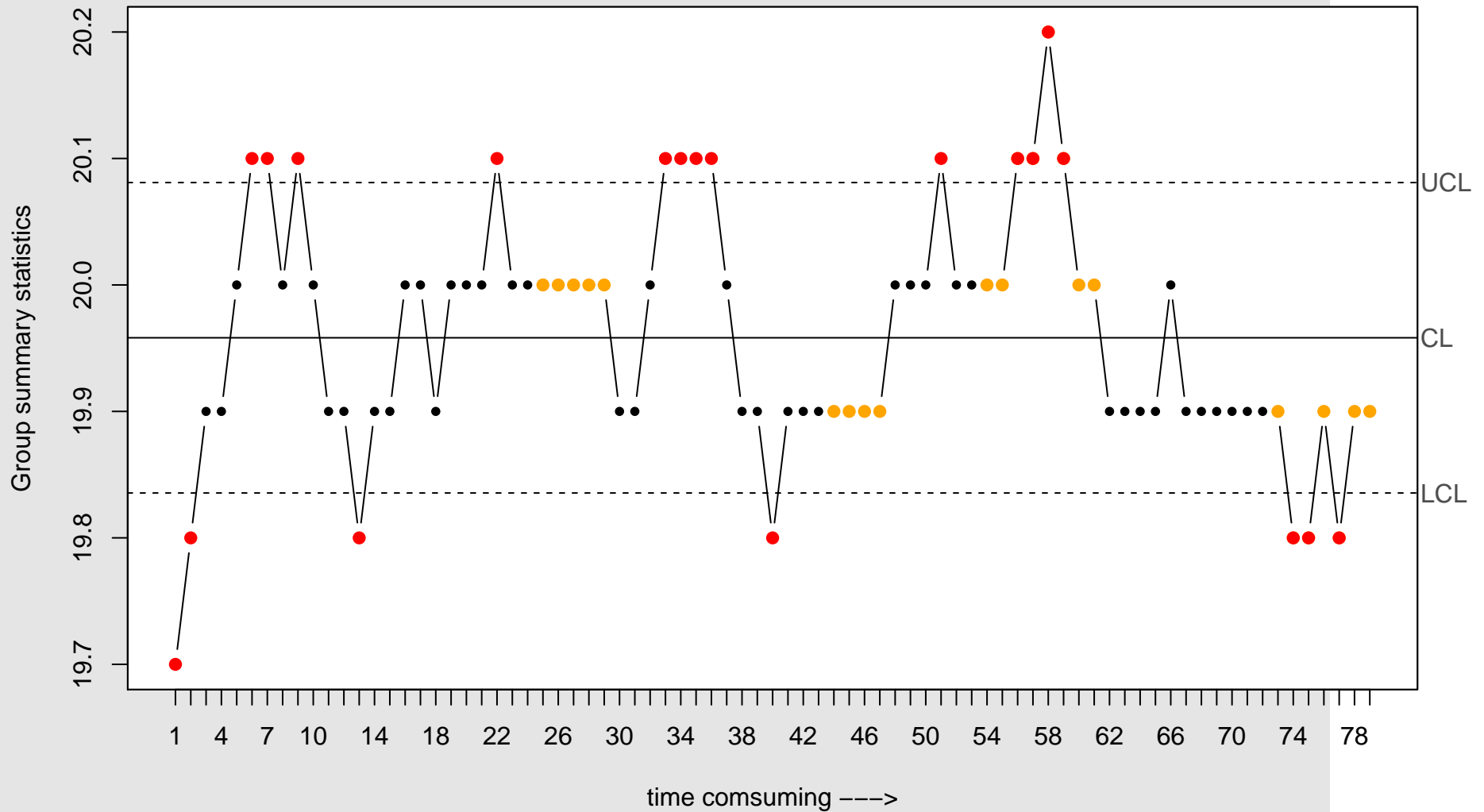
LCL = 19.82311

UCL = 20.09588

Number beyond limits = 18

Number violating runs = 5

295th column point of this product

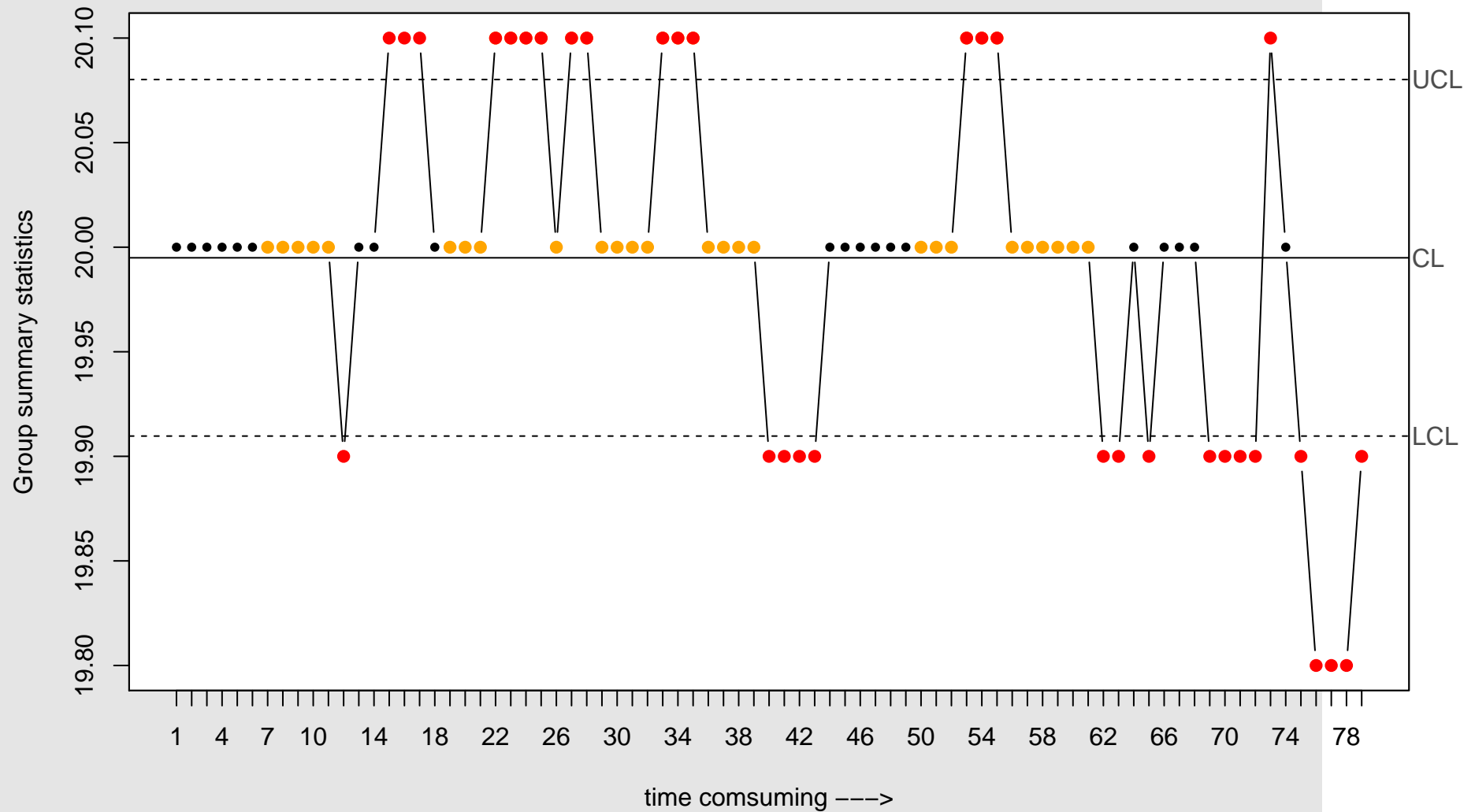


Number of groups = 79
 Center = 19.95823
 StdDev = 0.04091653

LCL = 19.83548
 UCL = 20.08098

Number beyond limits = 20
 Number violating runs = 24

296th column point of this product

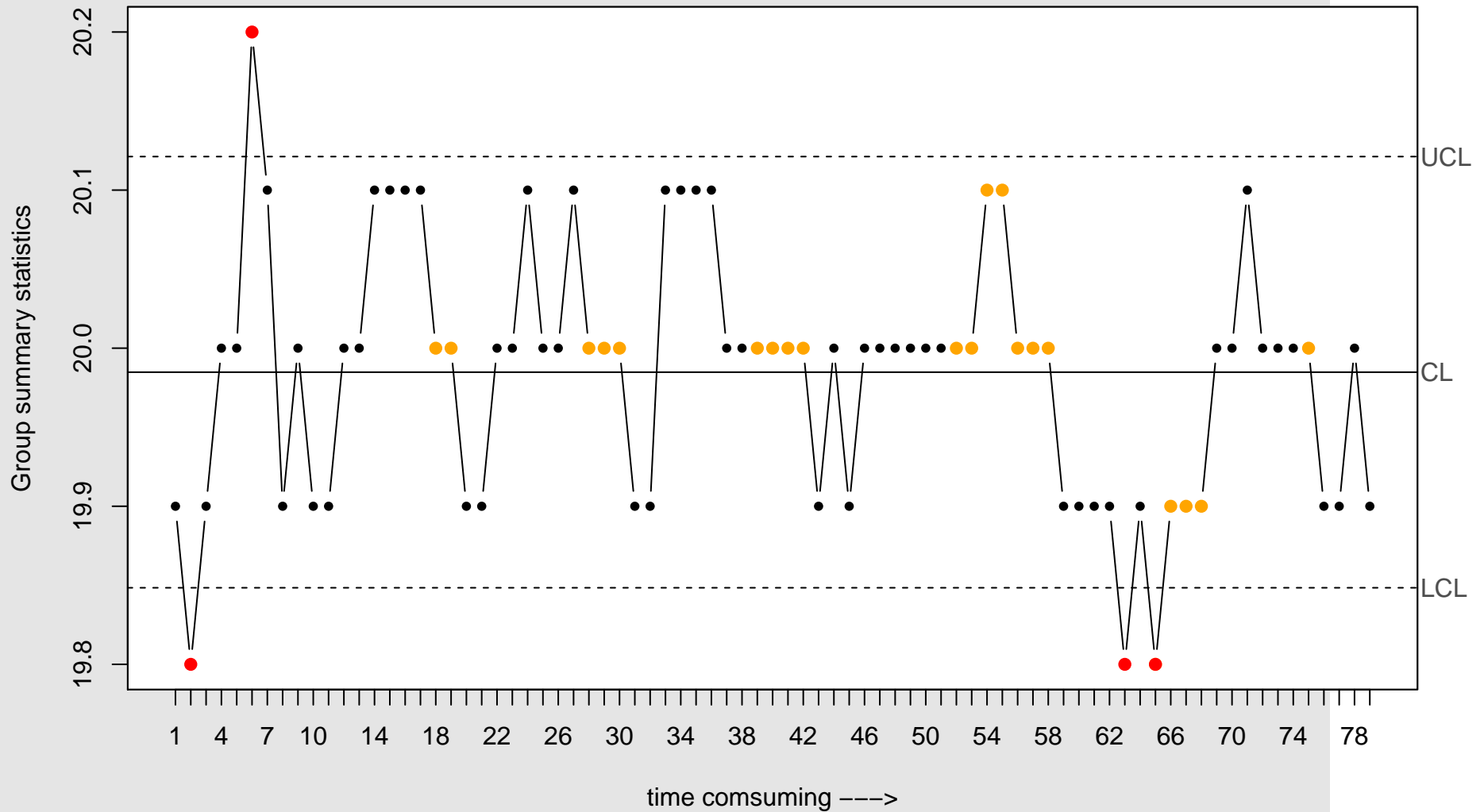


Number of groups = 79
 Center = 19.99494
 StdDev = 0.02841426

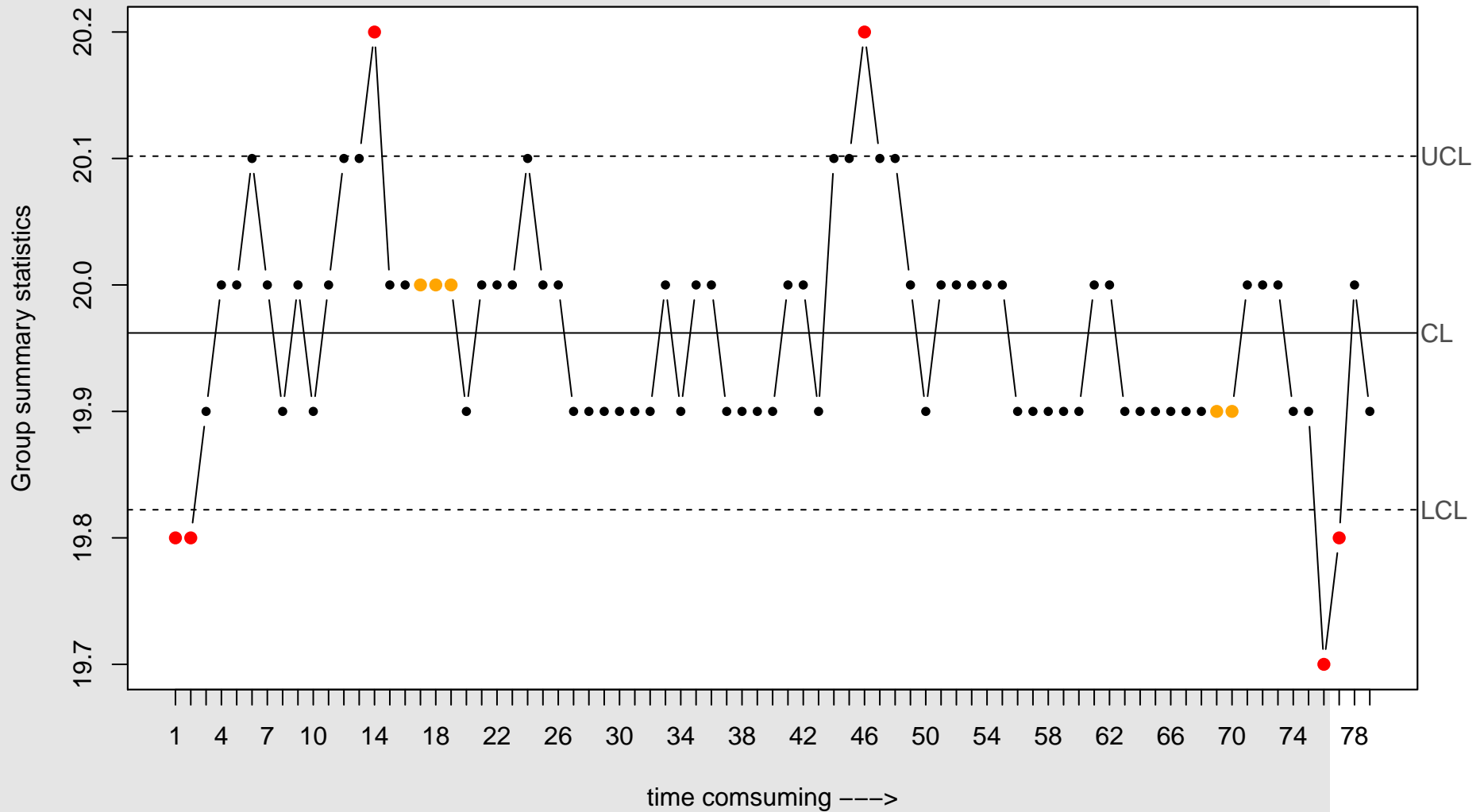
LCL = 19.90969
 UCL = 20.08018

Number beyond limits = 33
 Number violating runs = 38

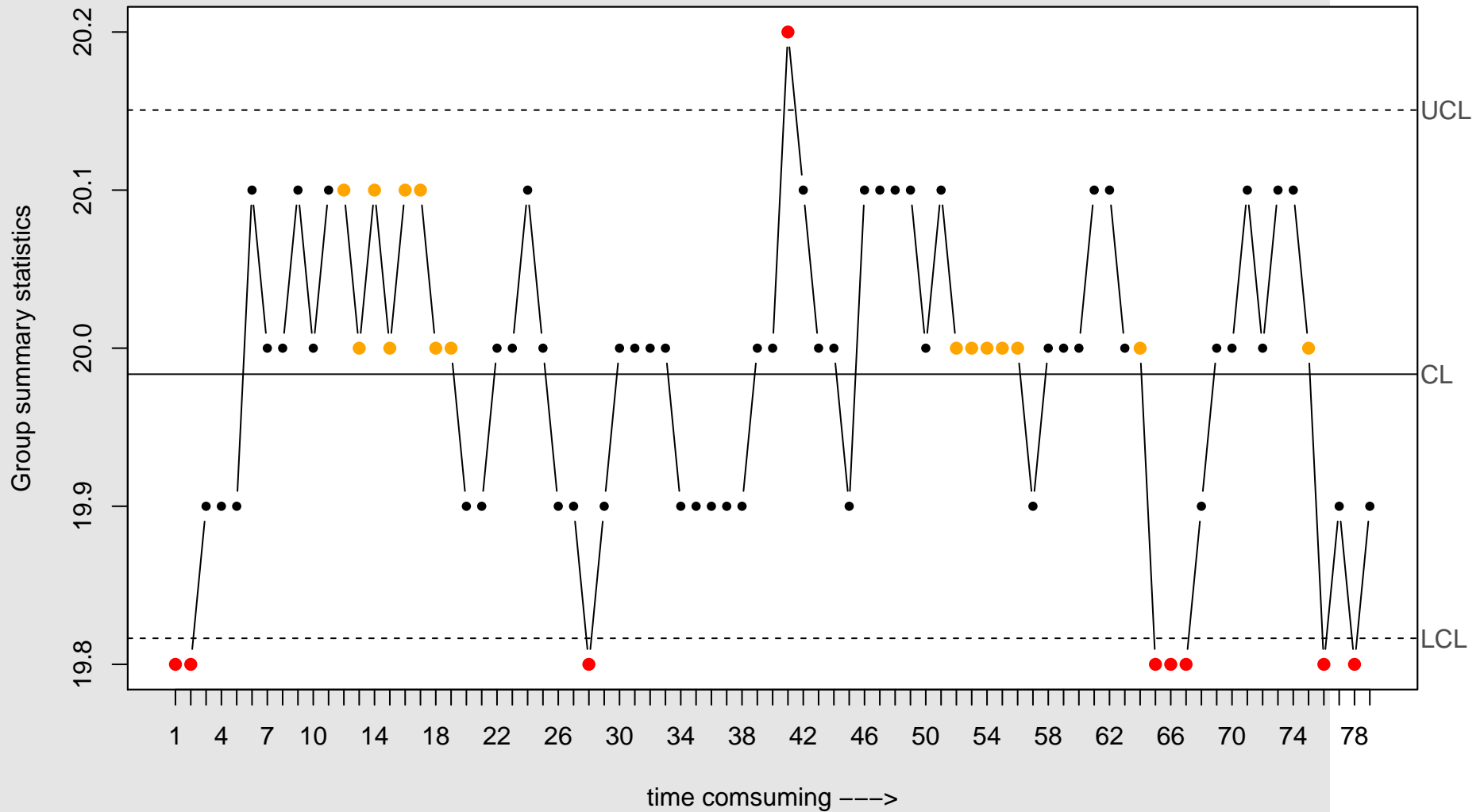
297th column point of this product



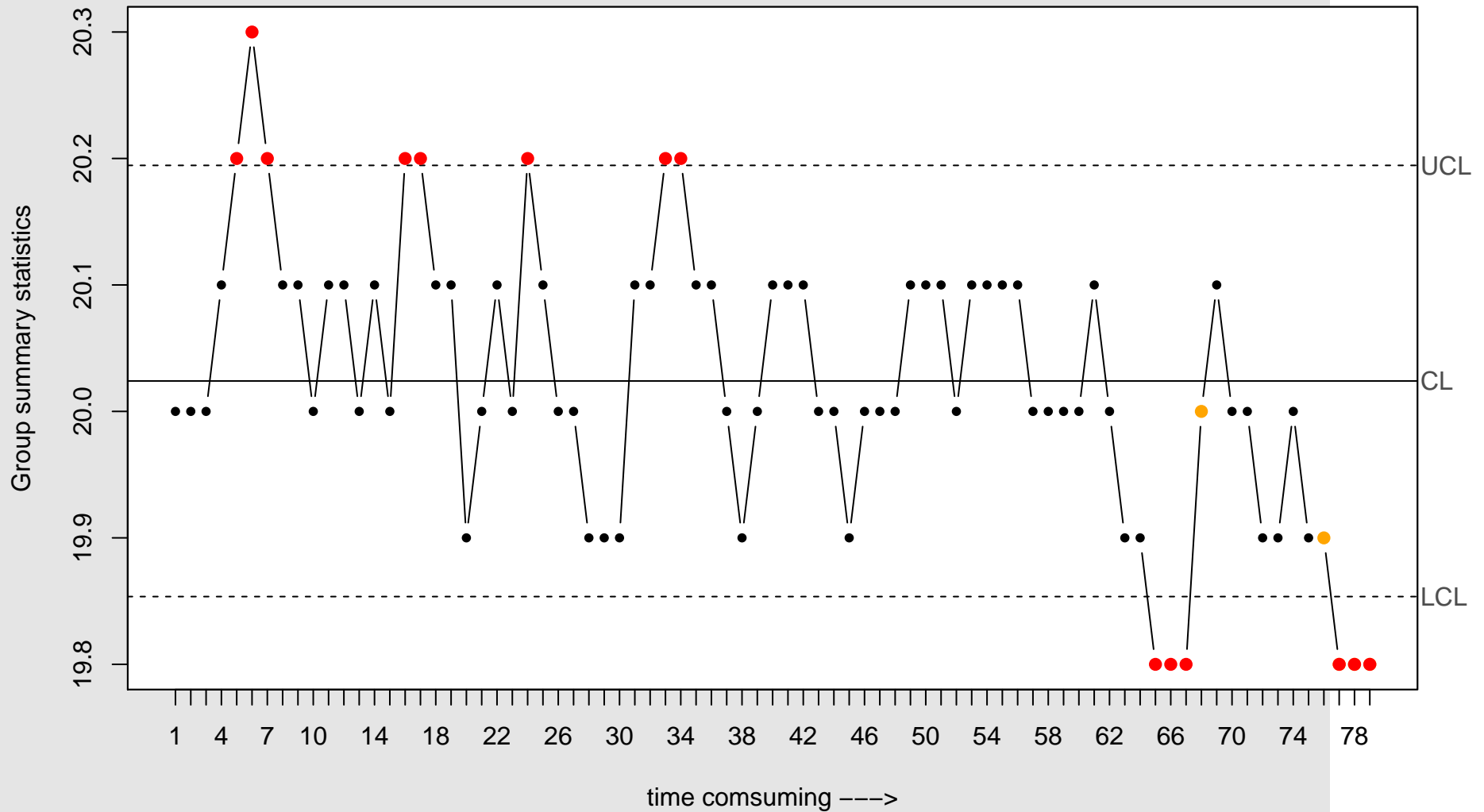
298th column point of this product



299th column point of this product



300th column point of this product

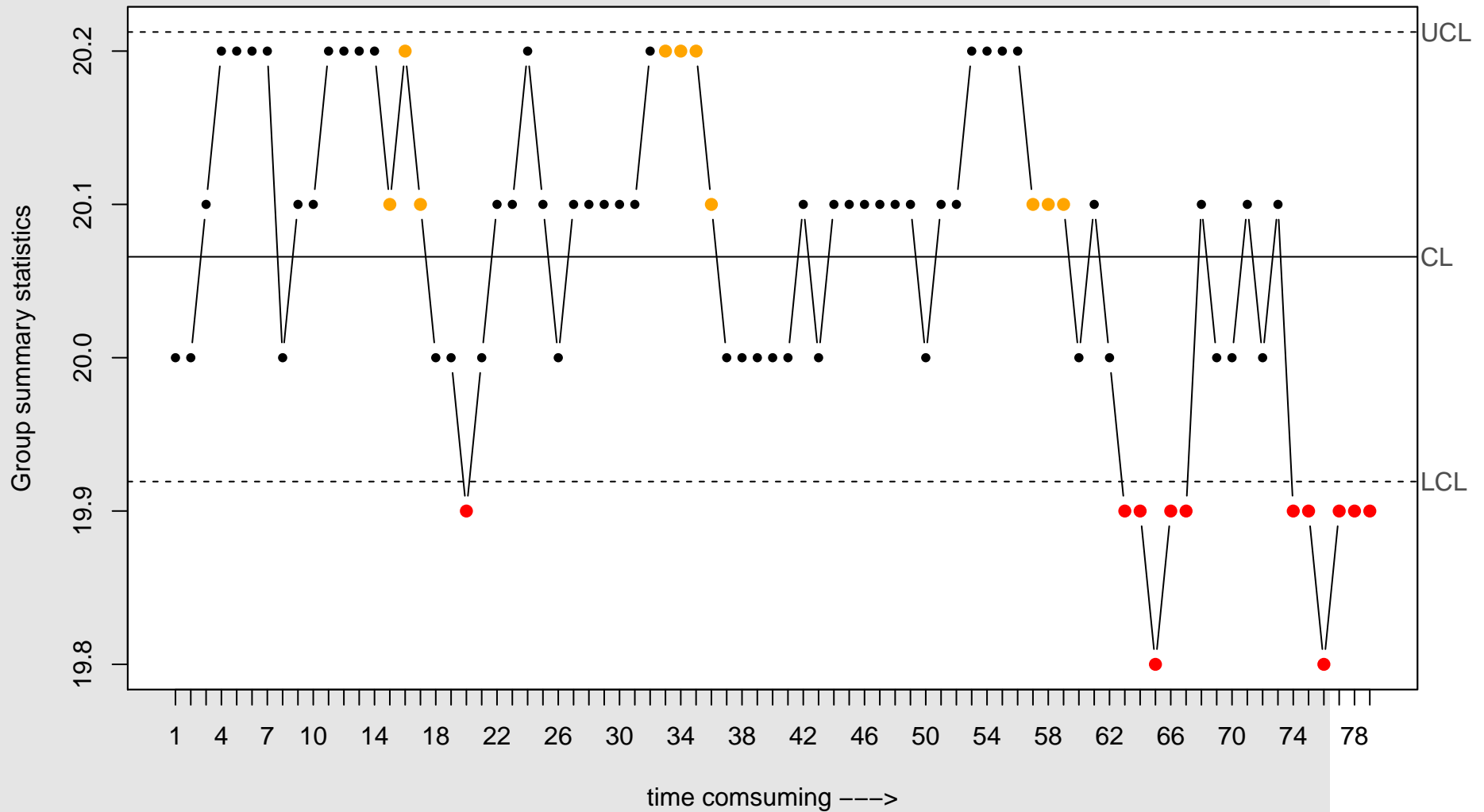


Number of groups = 79
 Center = 20.02405
 StdDev = 0.05682851

LCL = 19.85357
 UCL = 20.19454

Number beyond limits = 14
 Number violating runs = 5

301th column point of this product

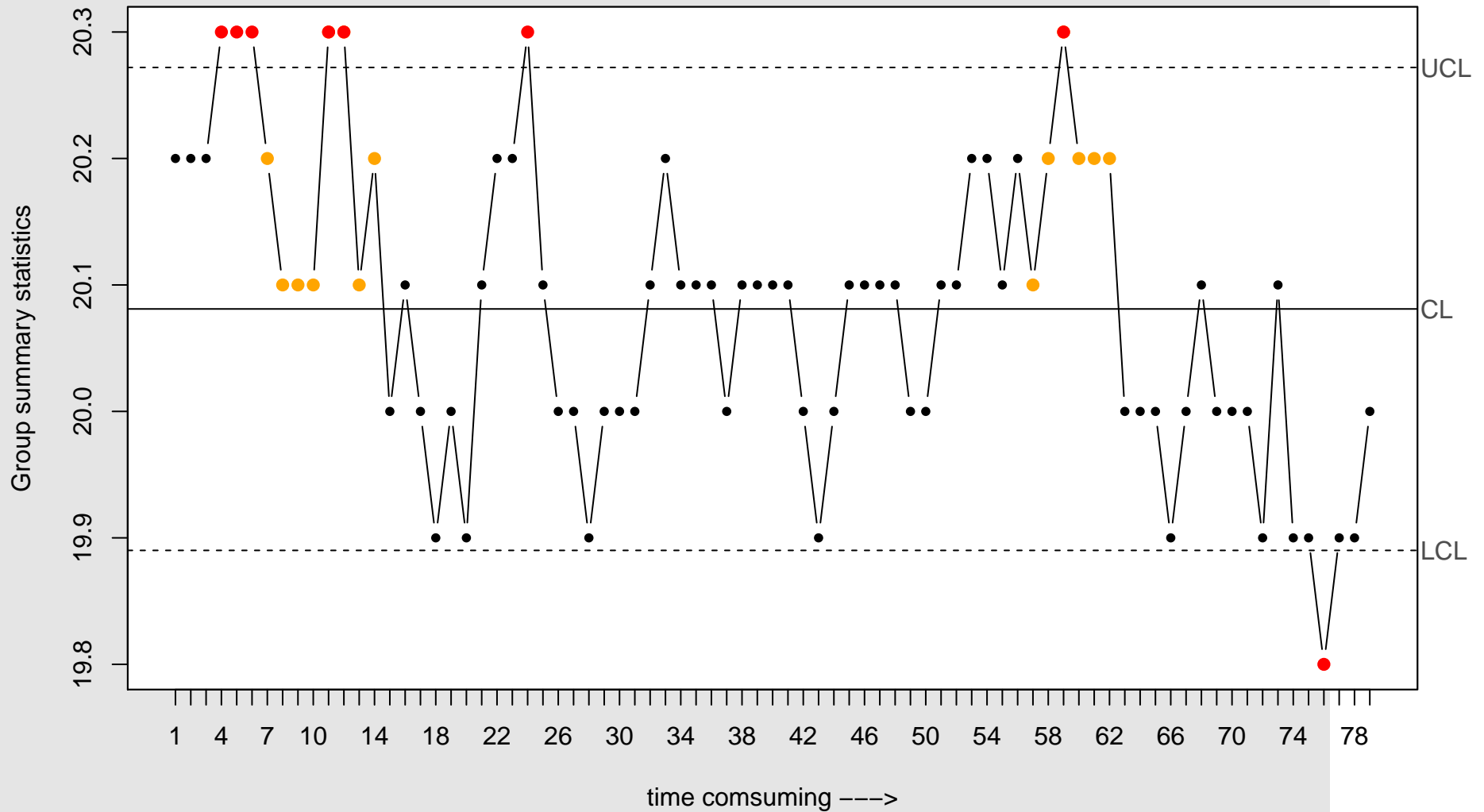


Number of groups = 79
 Center = 20.06582
 StdDev = 0.04887252

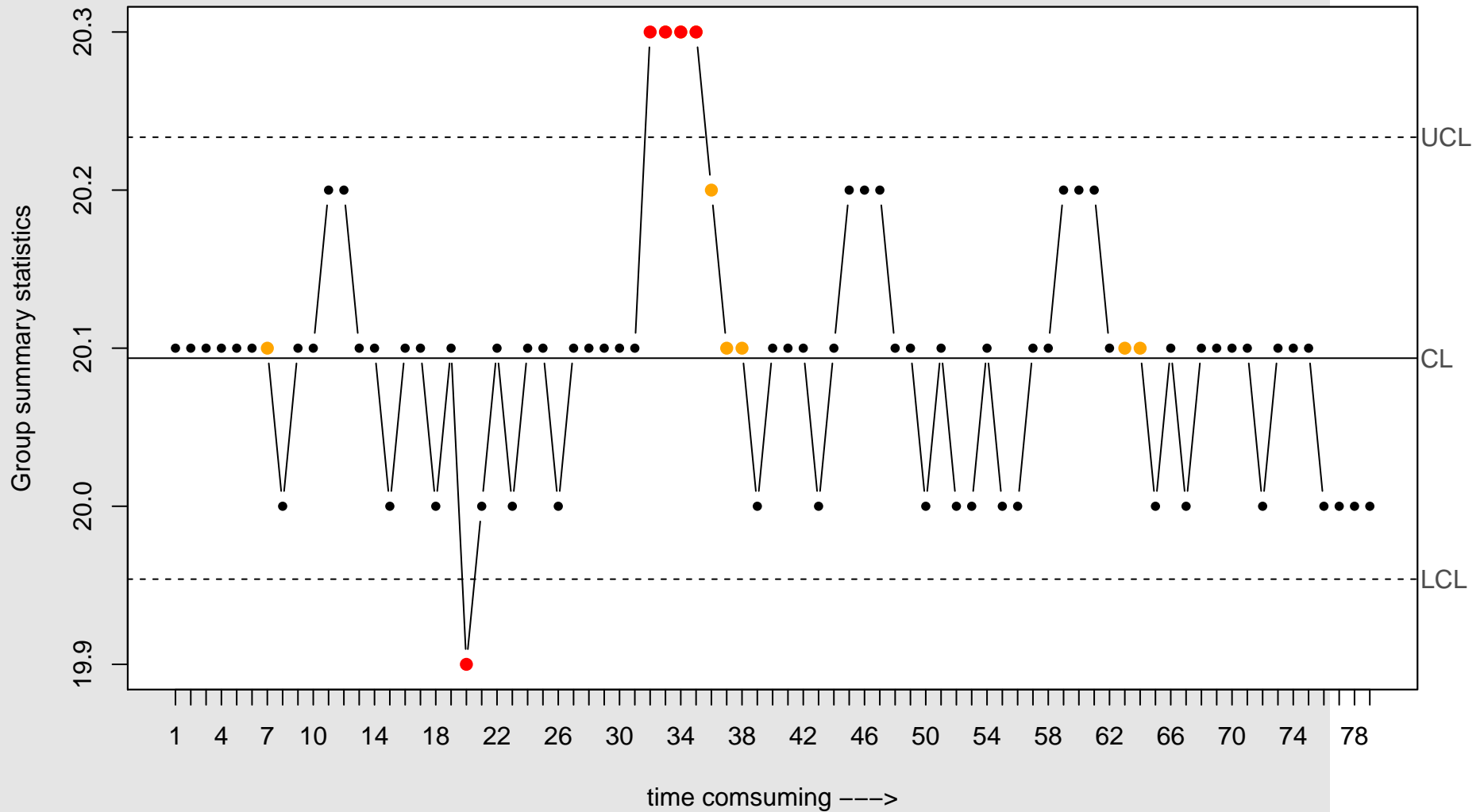
LCL = 19.91921
 UCL = 20.21244

Number beyond limits = 12
 Number violating runs = 10

302th column point of this product



303th column point of this product

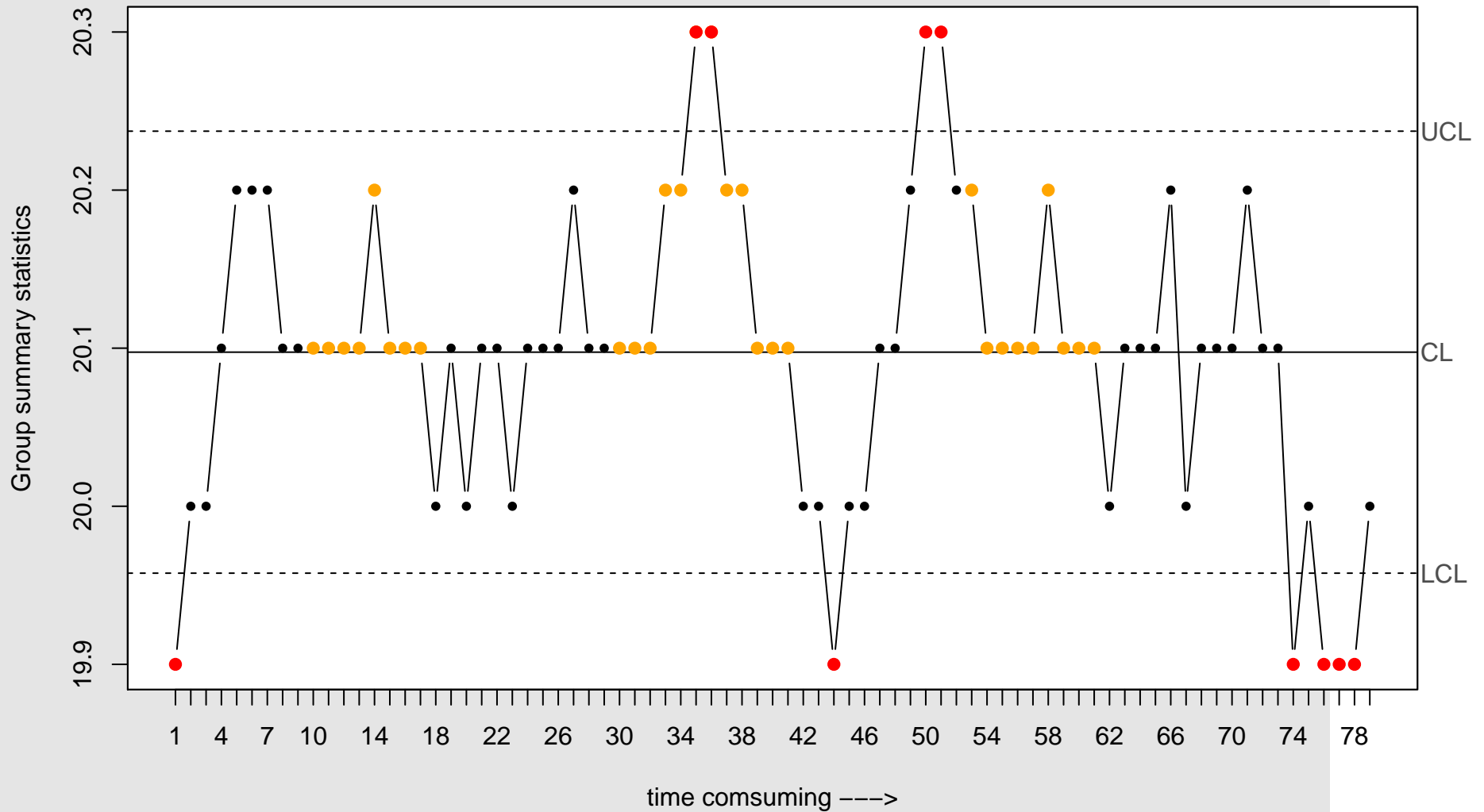


Number of groups = 79
 Center = 20.09367
 StdDev = 0.04659938

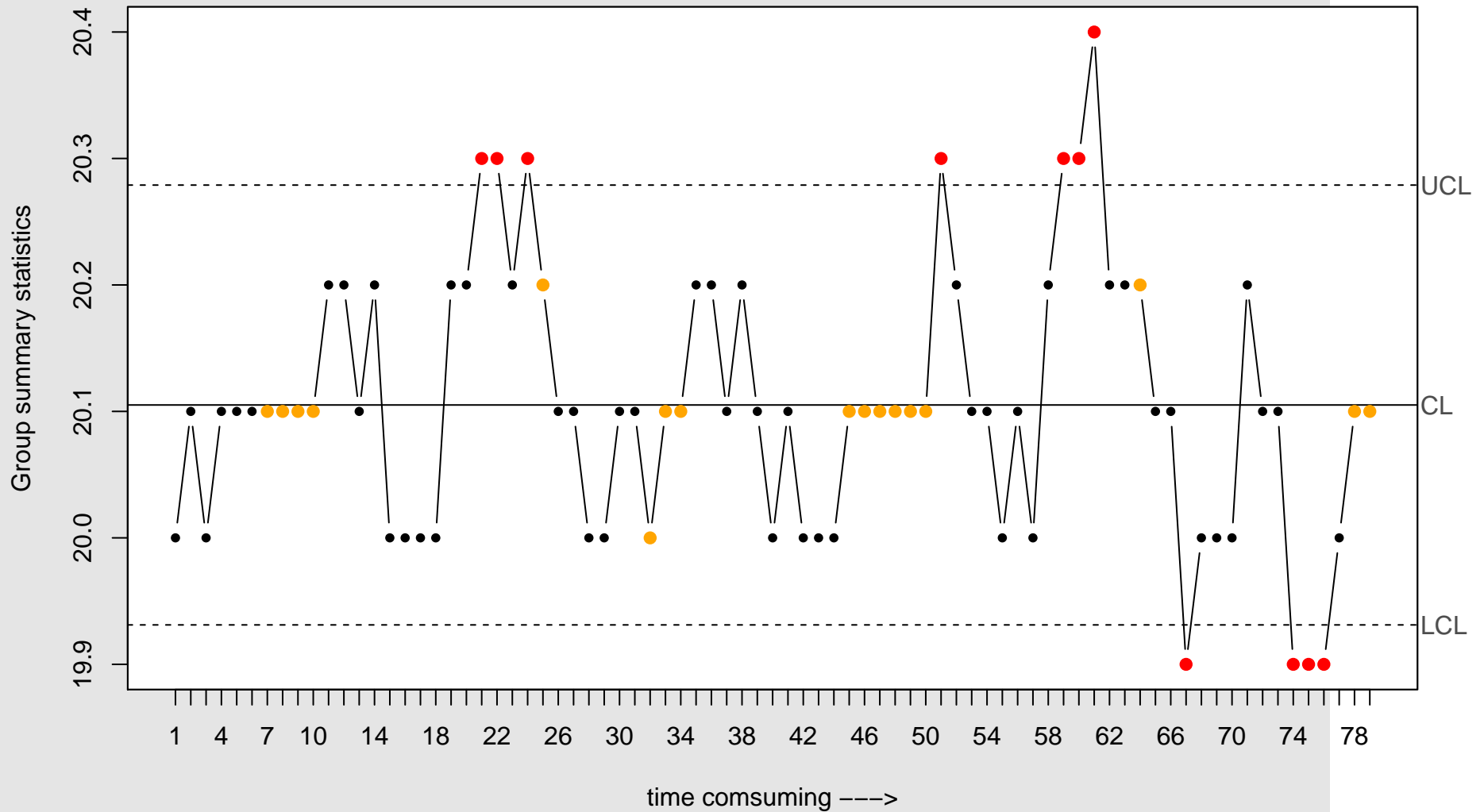
LCL = 19.95387
 UCL = 20.23347

Number beyond limits = 5
 Number violating runs = 9

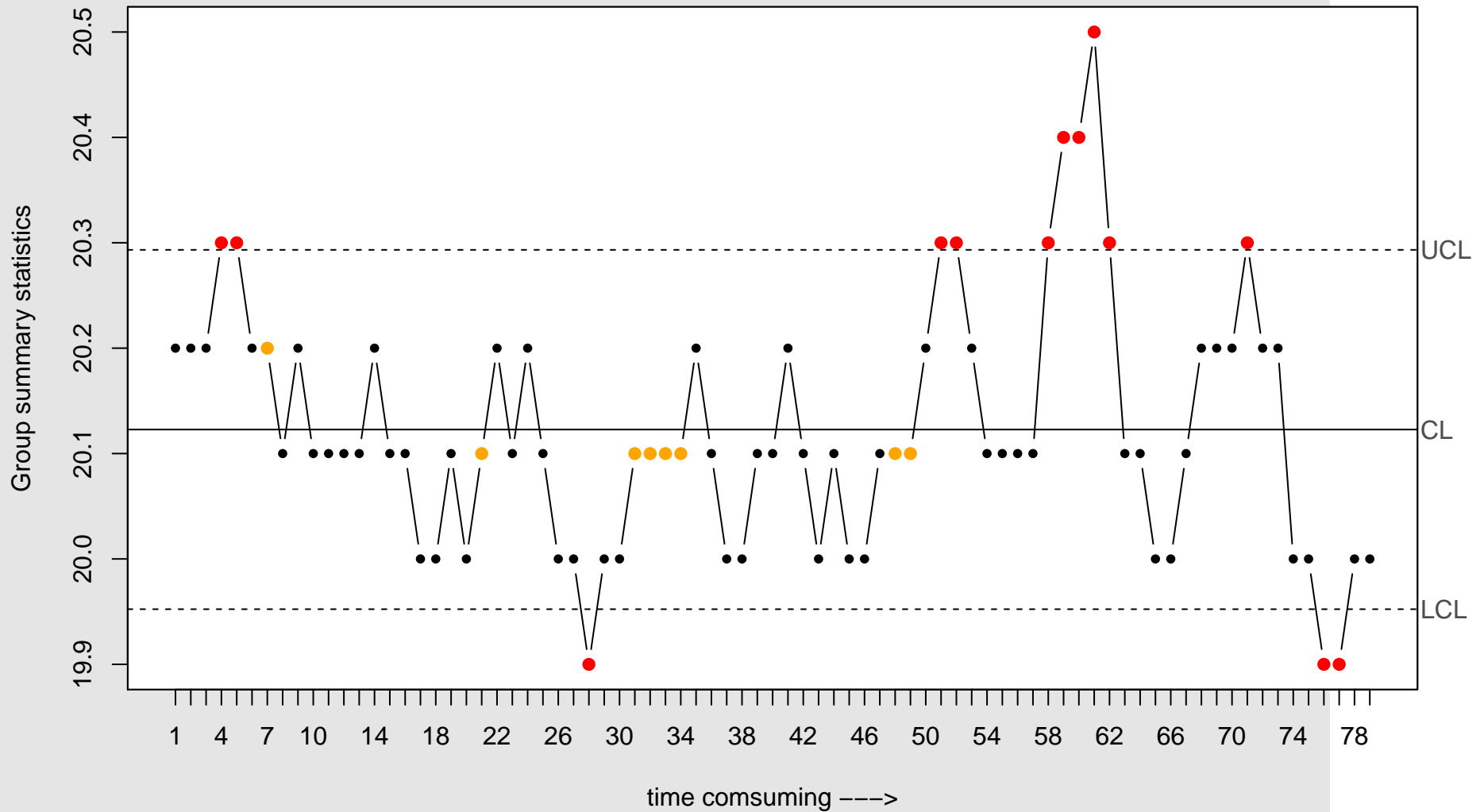
304th column point of this product



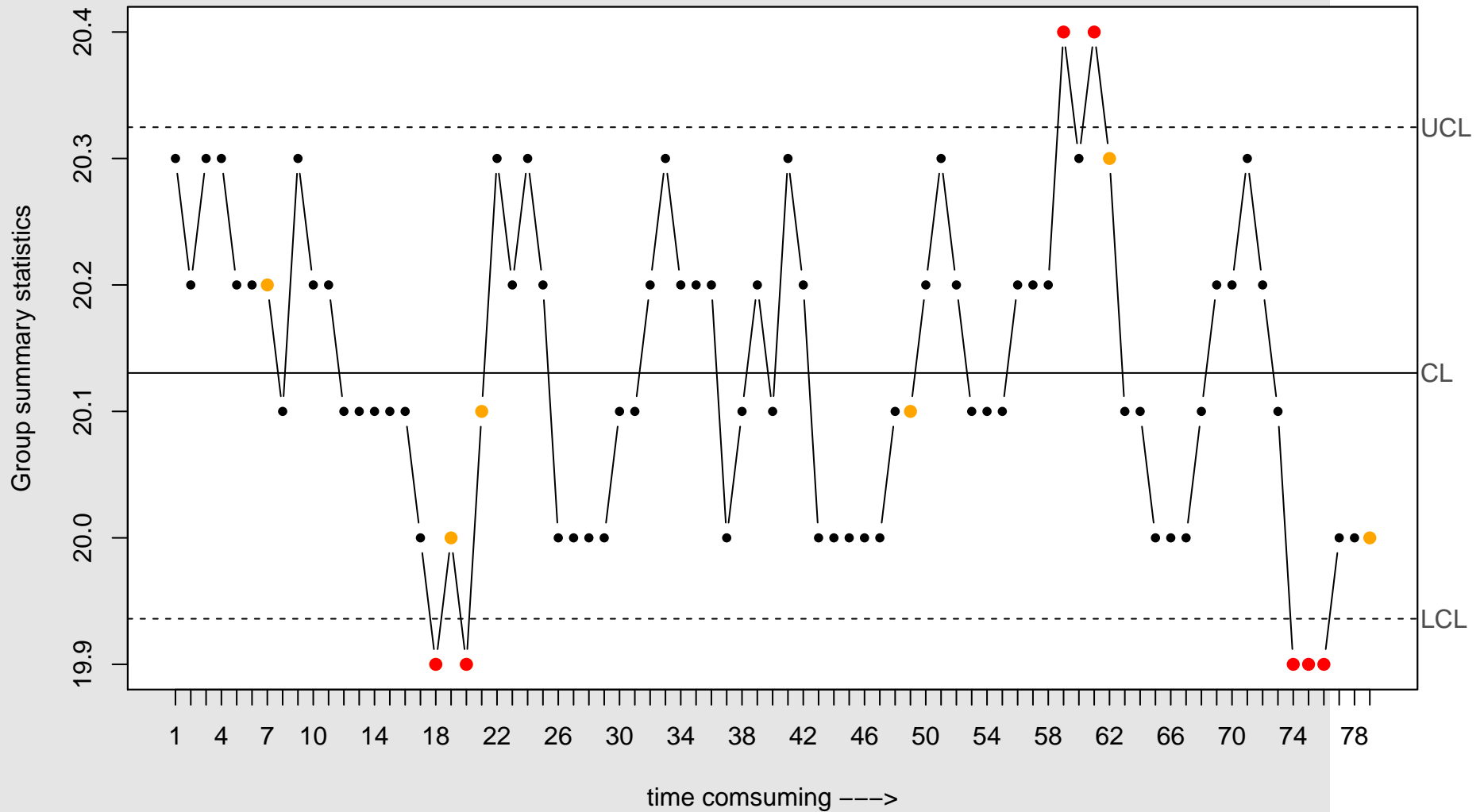
305th column point of this product



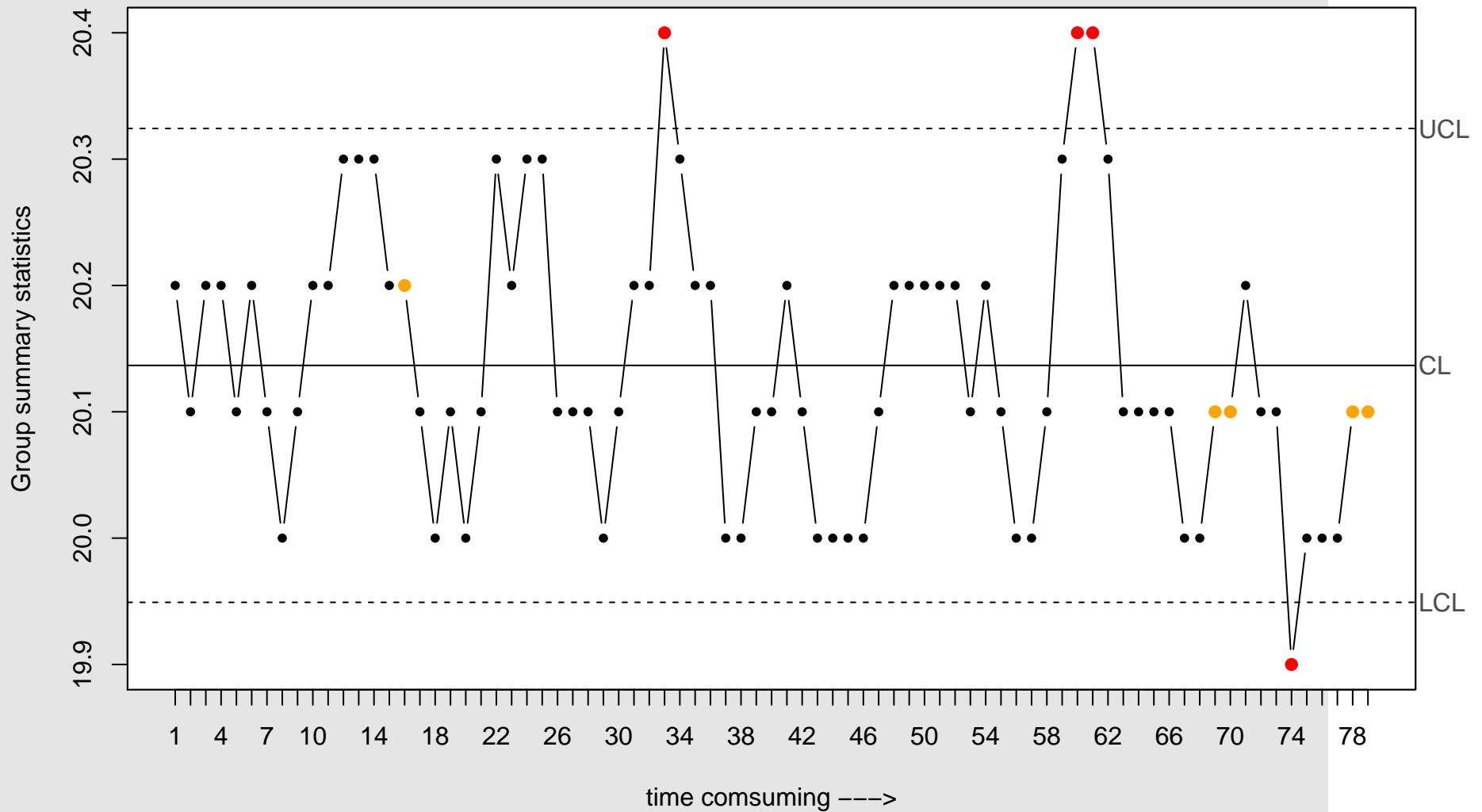
306th column point of this product



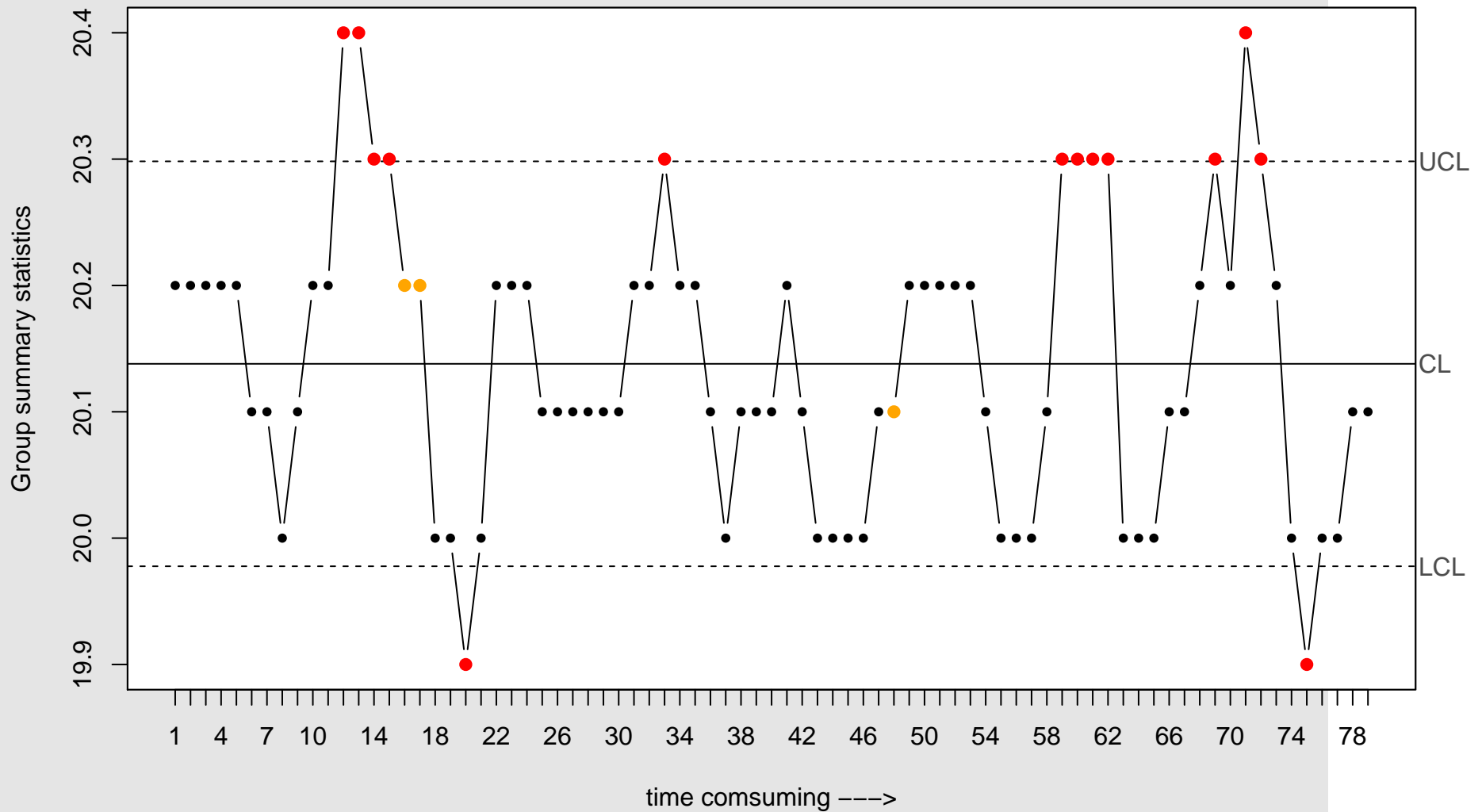
307th column point of this product



308th column point of this product



309th column point of this product



Number of groups = 79

Center = 20.13797

StdDev = 0.0534188

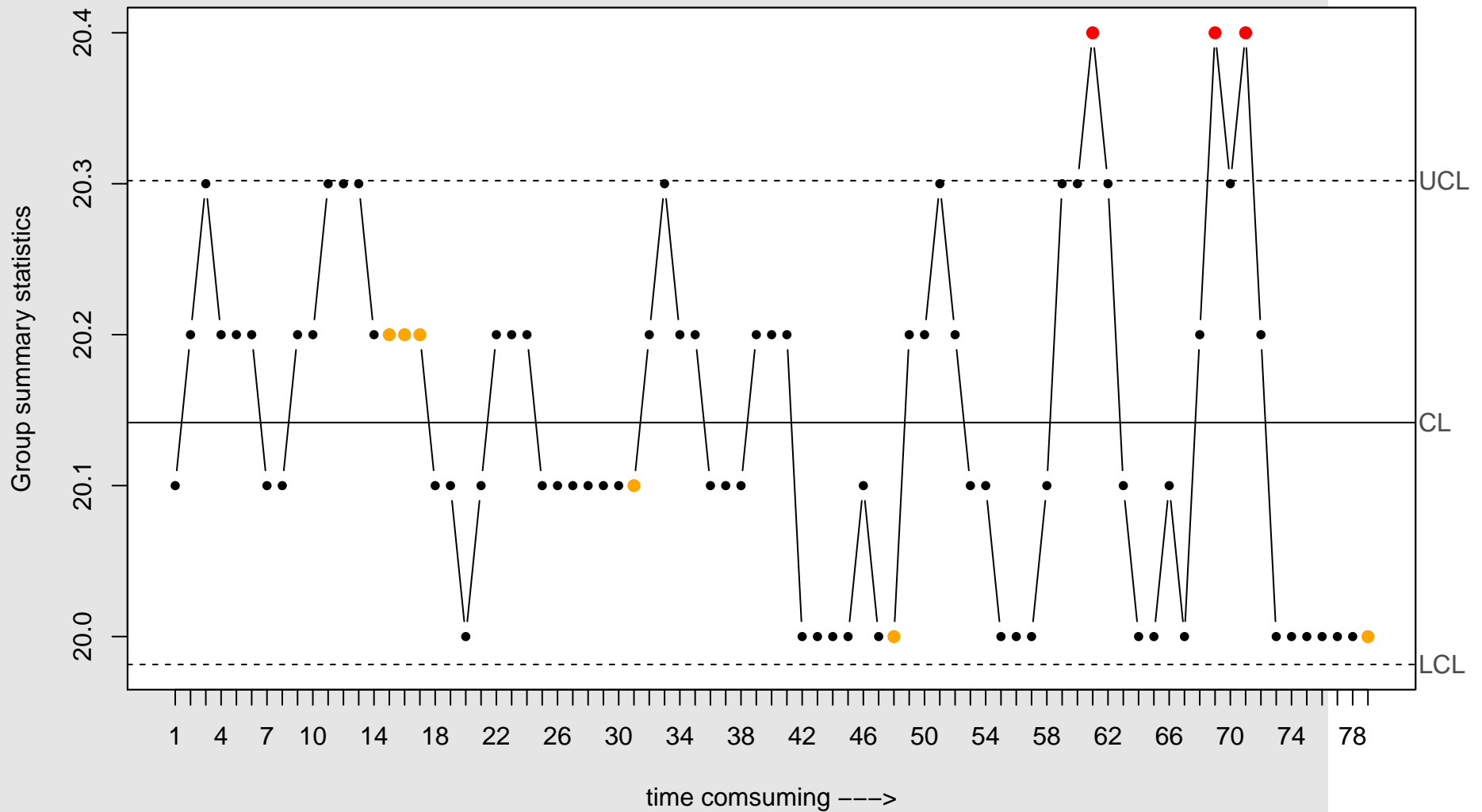
LCL = 19.97772

UCL = 20.29823

Number beyond limits = 14

Number violating runs = 3

310th column point of this product

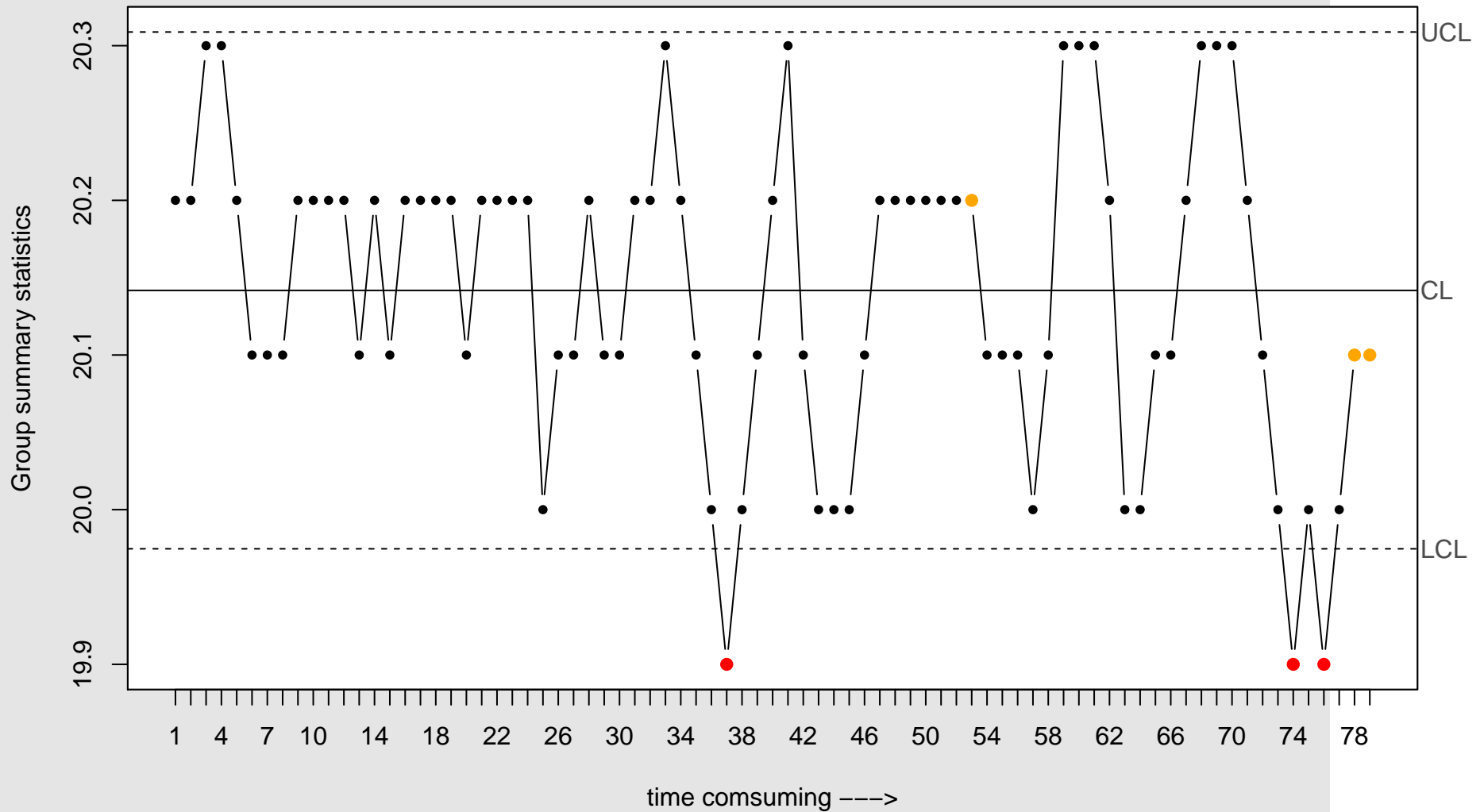


Number of groups = 79
 Center = 20.14177
 StdDev = 0.0534188

LCL = 19.98152
 UCL = 20.30203

Number beyond limits = 3
 Number violating runs = 6

311th column point of this product

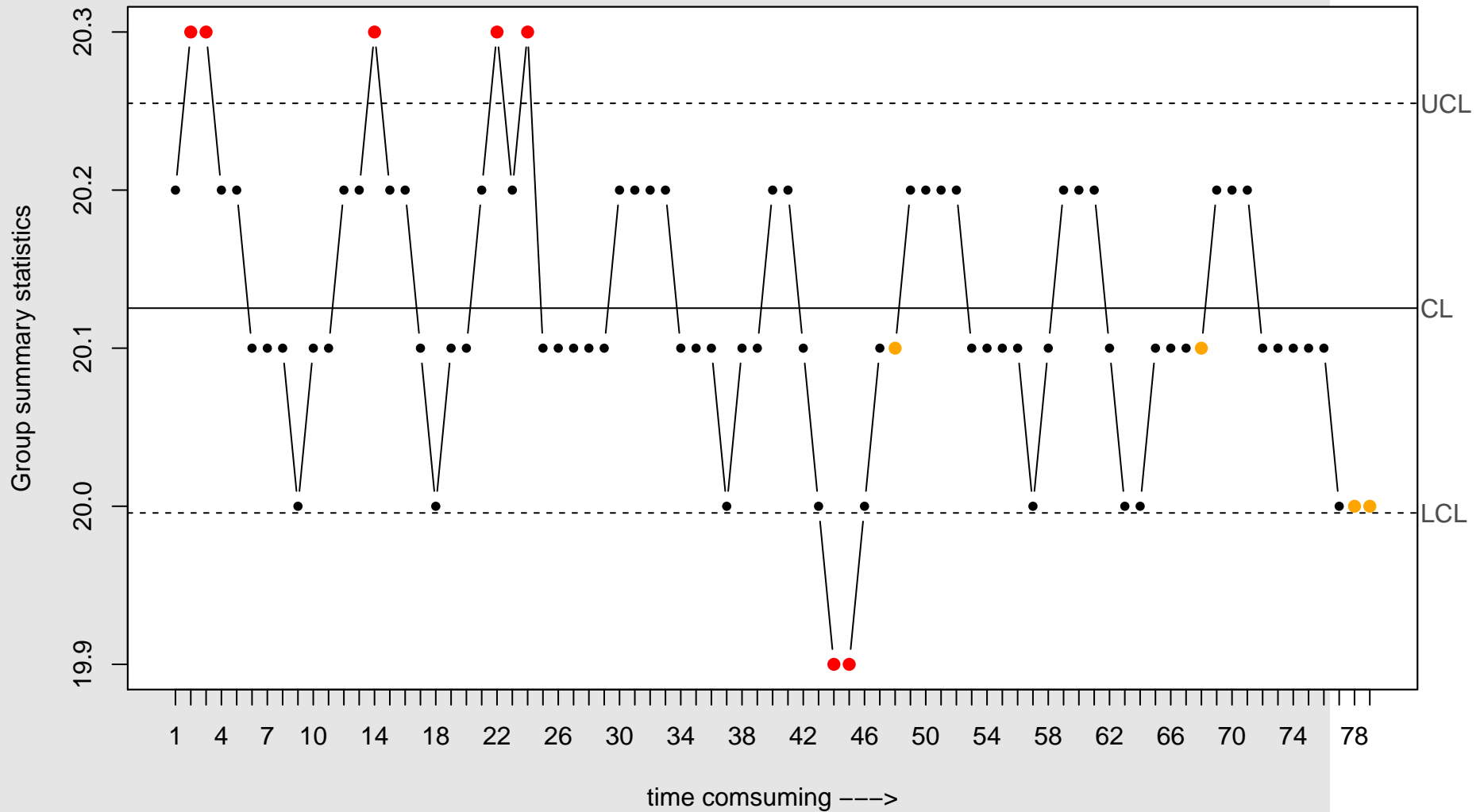


Number of groups = 79
 Center = 20.14177
 StdDev = 0.05569194

LCL = 19.9747
 UCL = 20.30885

Number beyond limits = 3
 Number violating runs = 3

312th column point of this product

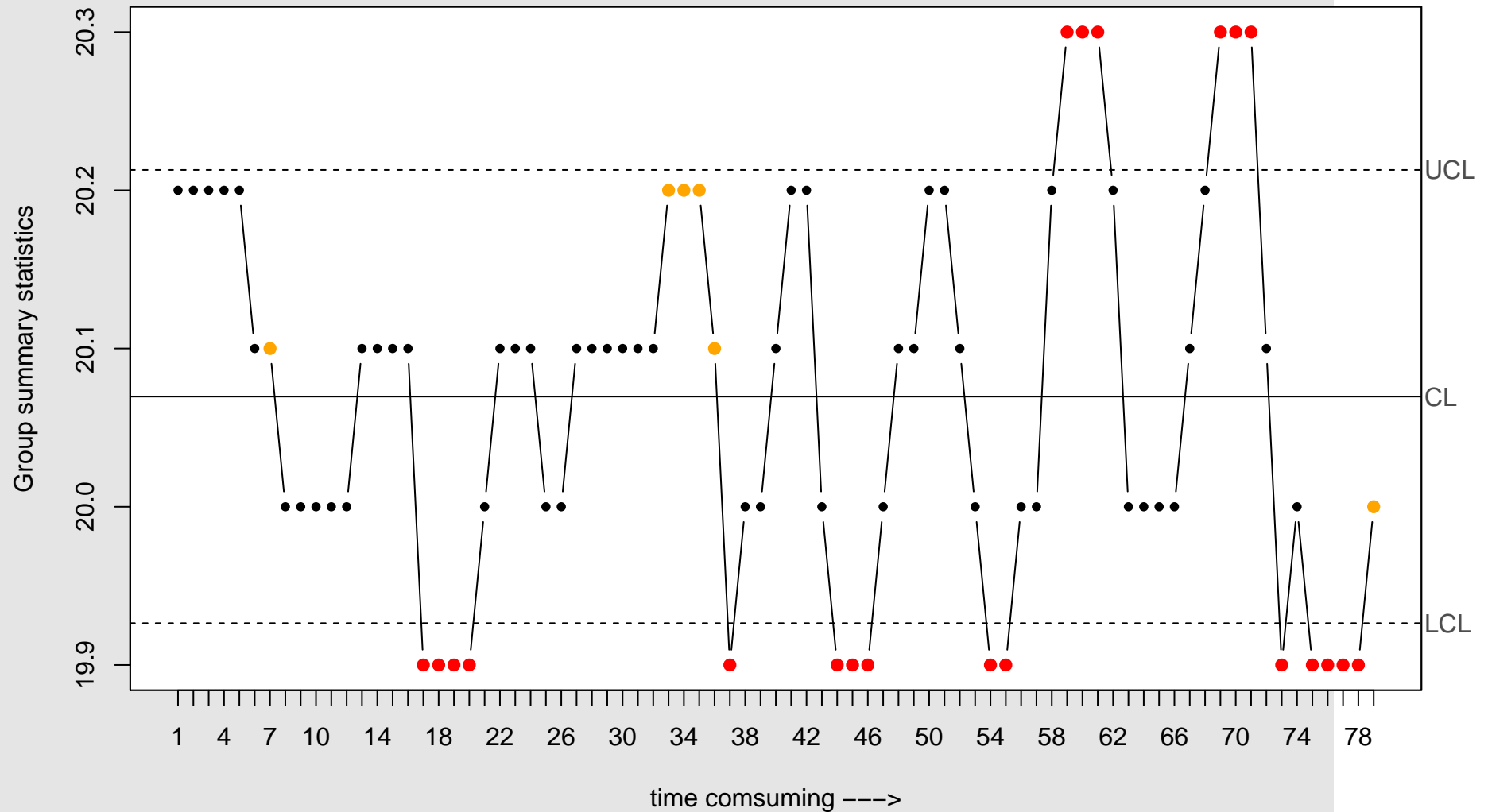


Number of groups = 79
 Center = 20.12532
 StdDev = 0.04318967

LCL = 19.99575
 UCL = 20.25489

Number beyond limits = 7
 Number violating runs = 4

313th column point of this product

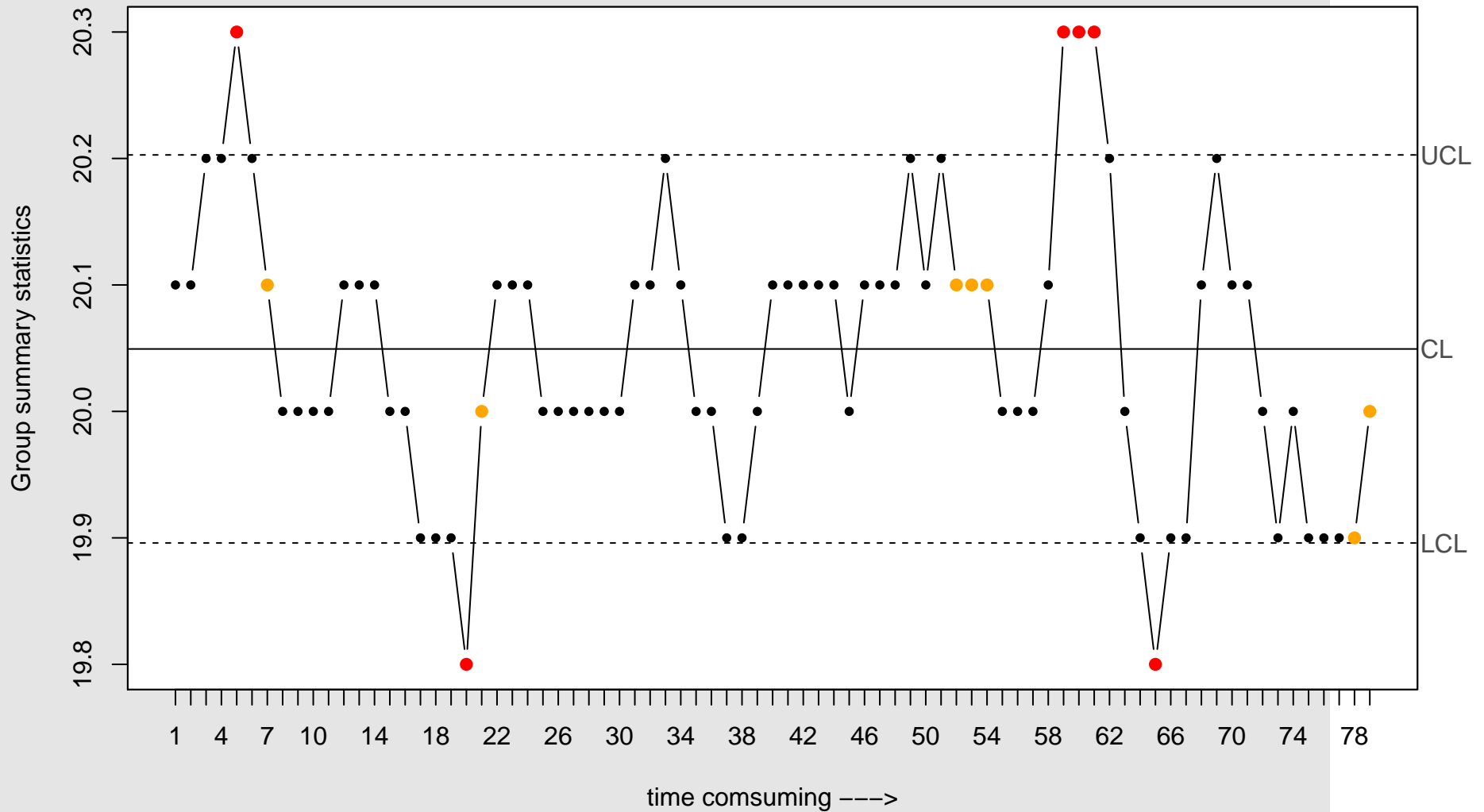


Number of groups = 79
 Center = 20.06962
 StdDev = 0.04773595

LCL = 19.92641
 UCL = 20.21283

Number beyond limits = 21
 Number violating runs = 6

314th column point of this product



Number of groups = 79

Center = 20.04937

StdDev = 0.05114566

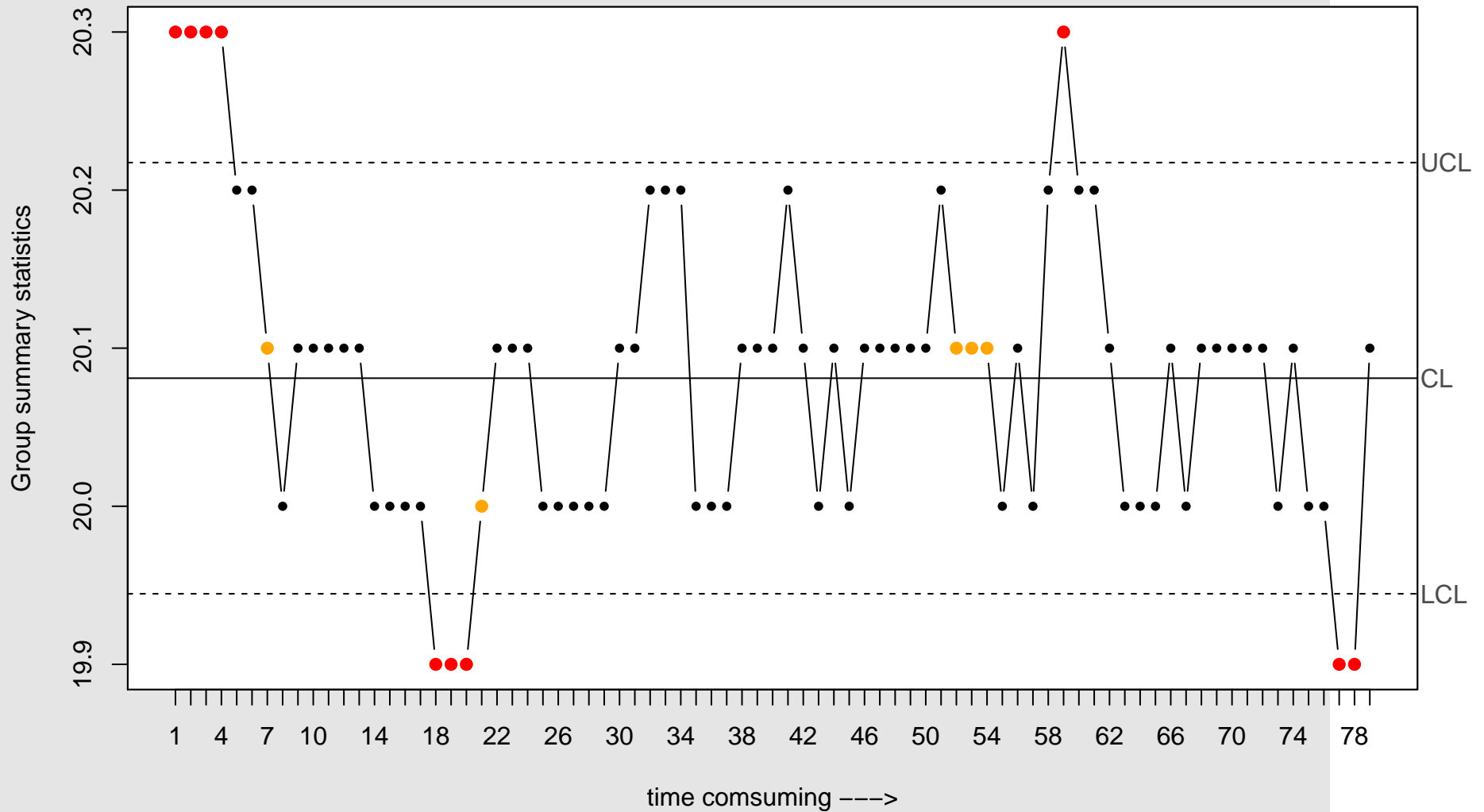
LCL = 19.89593

UCL = 20.2028

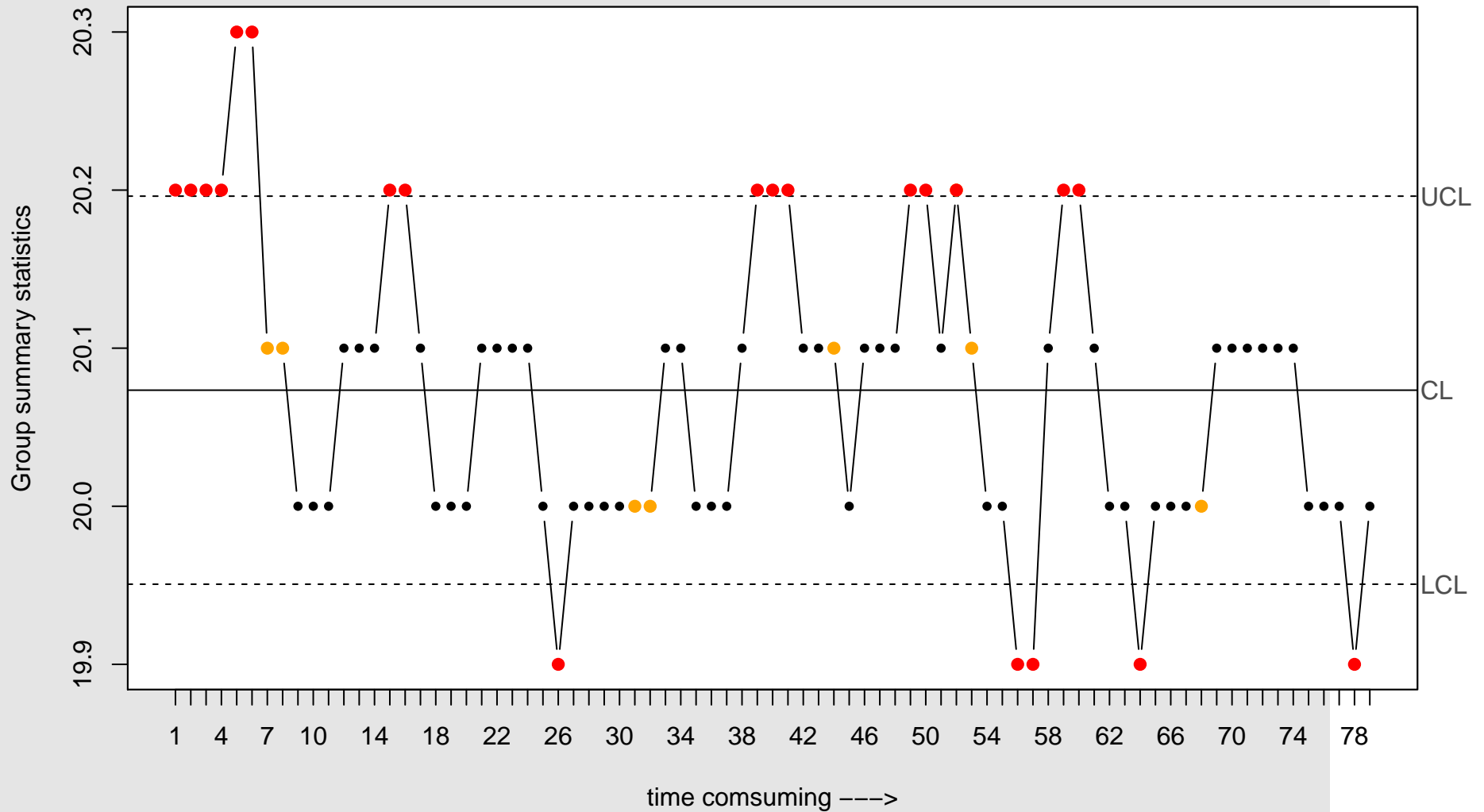
Number beyond limits = 6

Number violating runs = 7

315th column point of this product



316th column point of this product

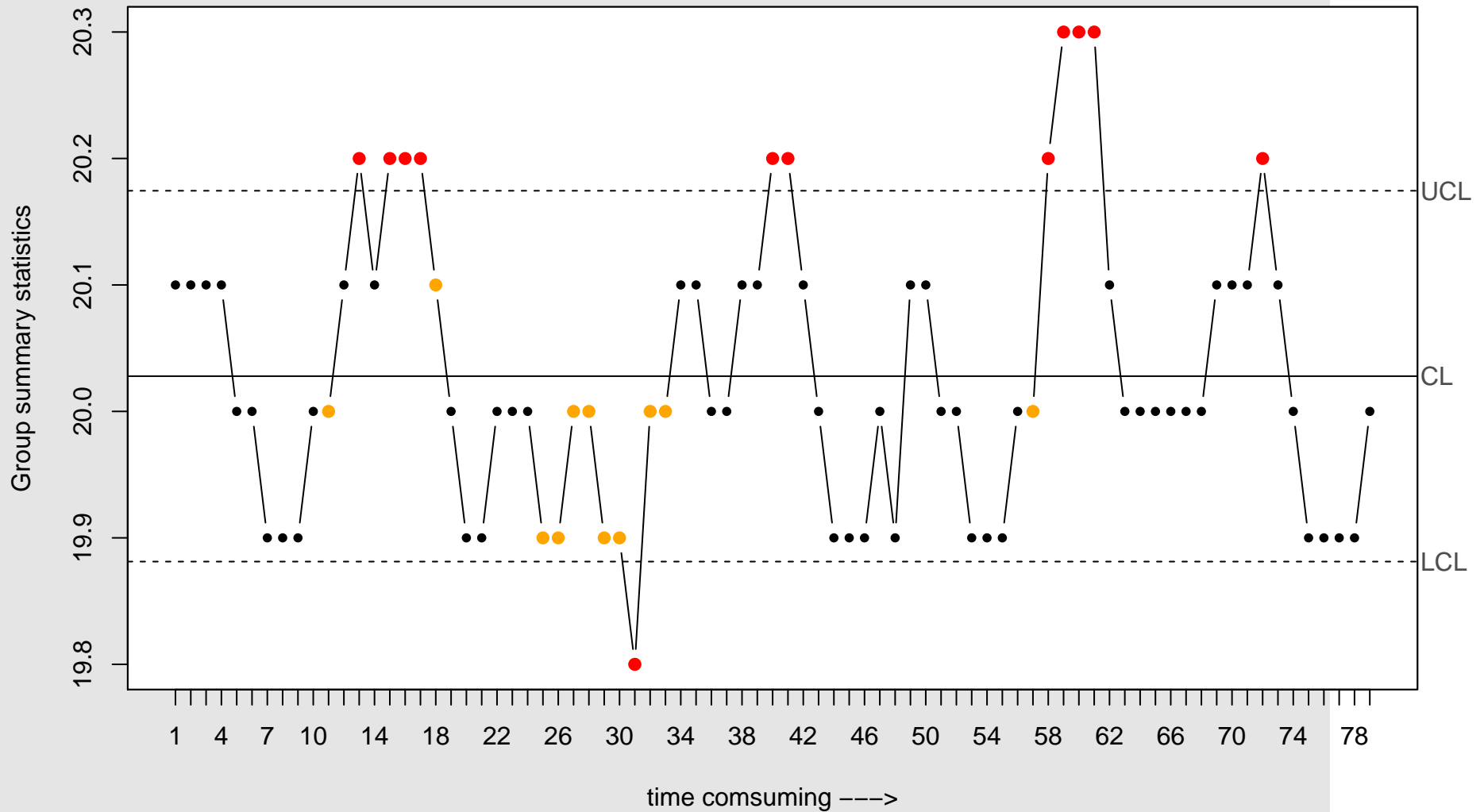


Number of groups = 79
 Center = 20.07342
 StdDev = 0.04091653

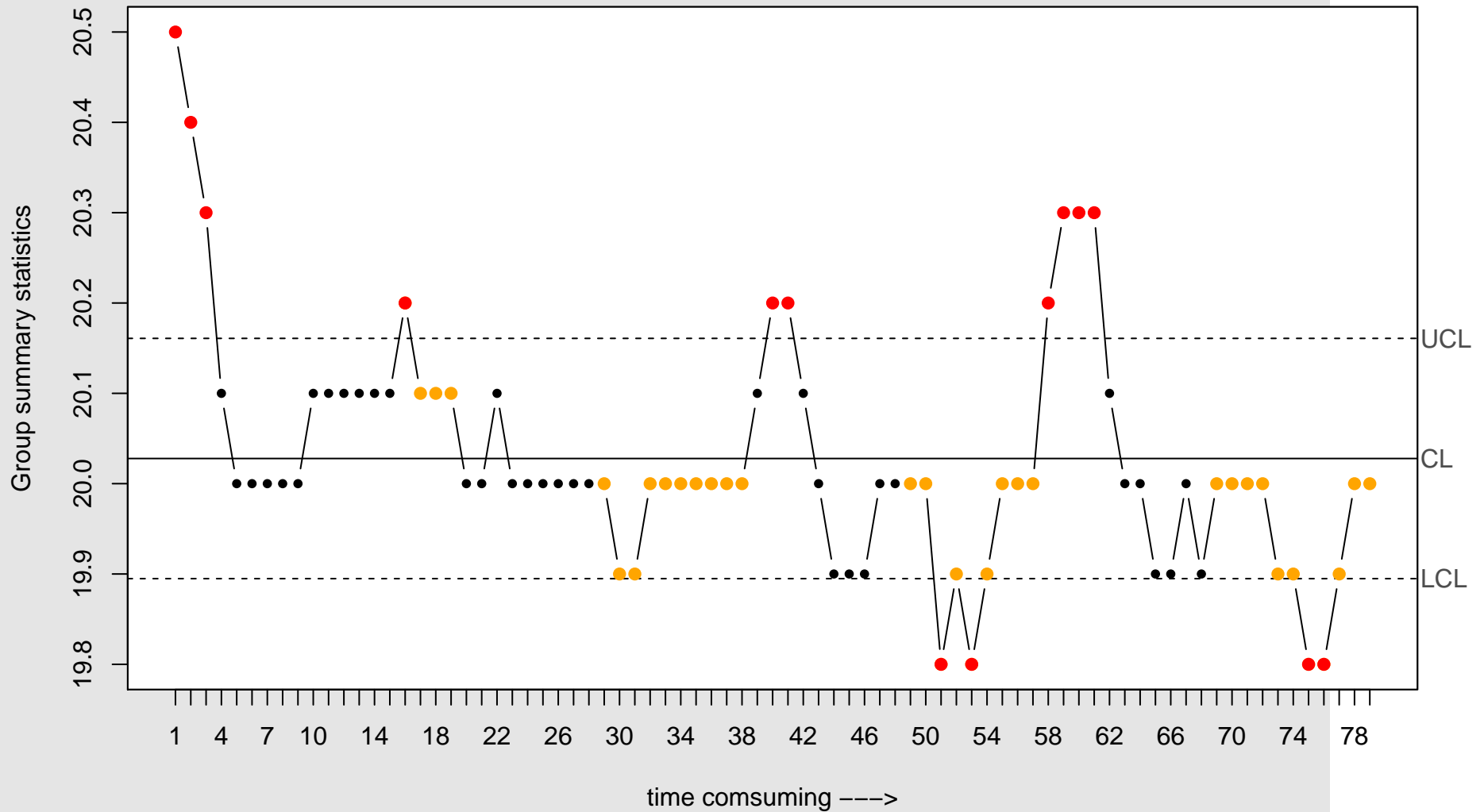
LCL = 19.95067
 UCL = 20.19617

Number beyond limits = 21
 Number violating runs = 8

317th column point of this product



318th column point of this product

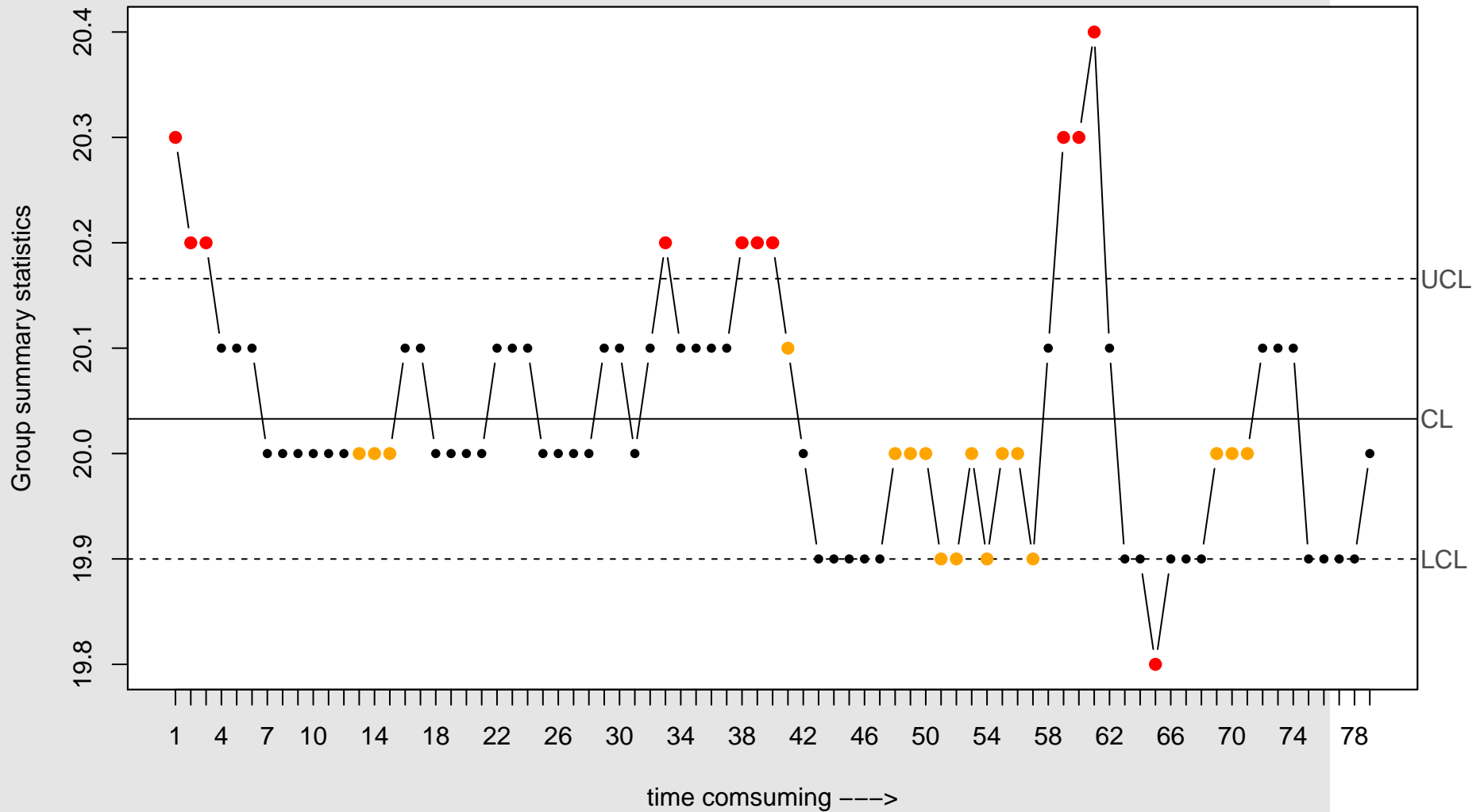


Number of groups = 79
 Center = 20.02785
 StdDev = 0.04432624

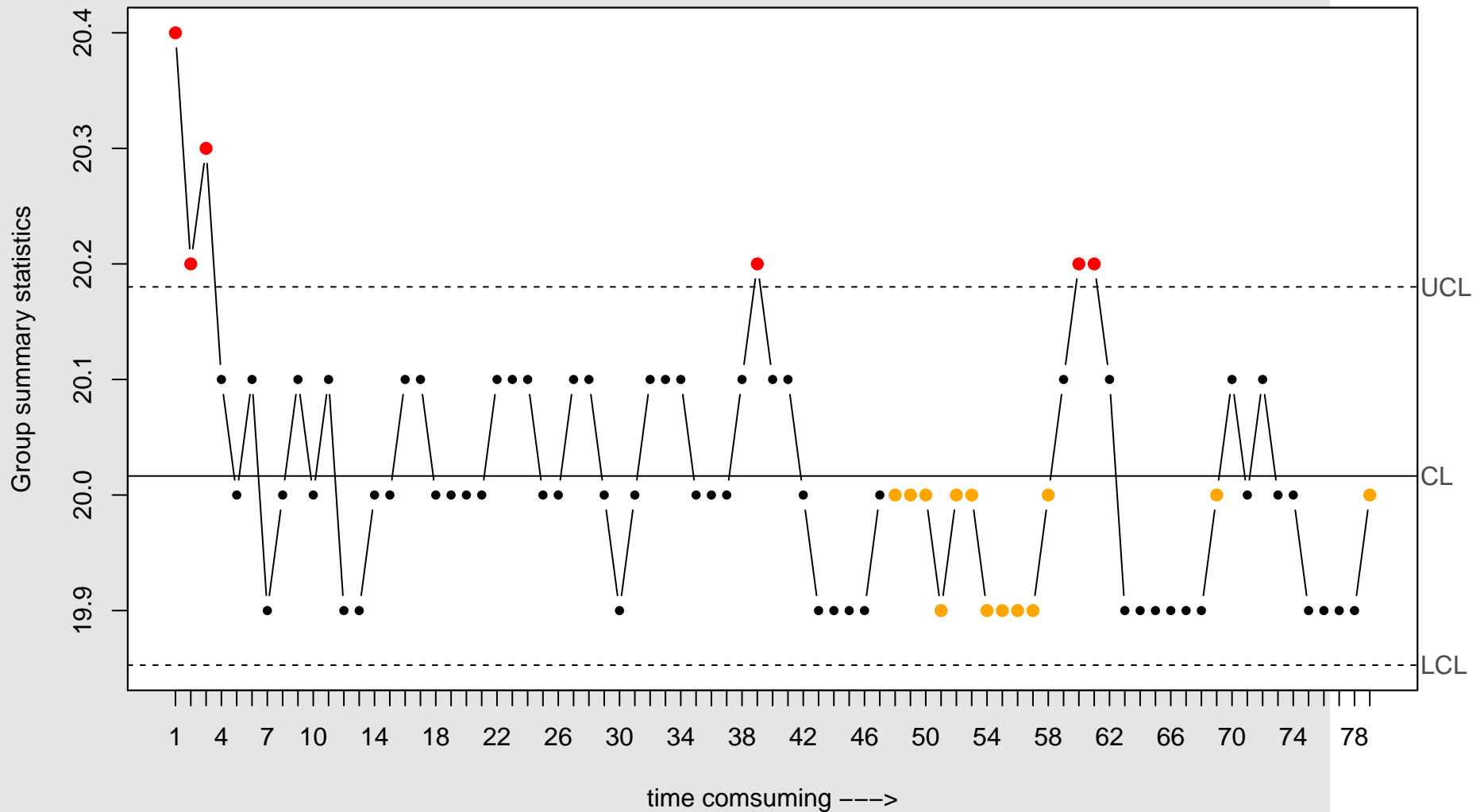
LCL = 19.89487
 UCL = 20.16083

Number beyond limits = 14
 Number violating runs = 34

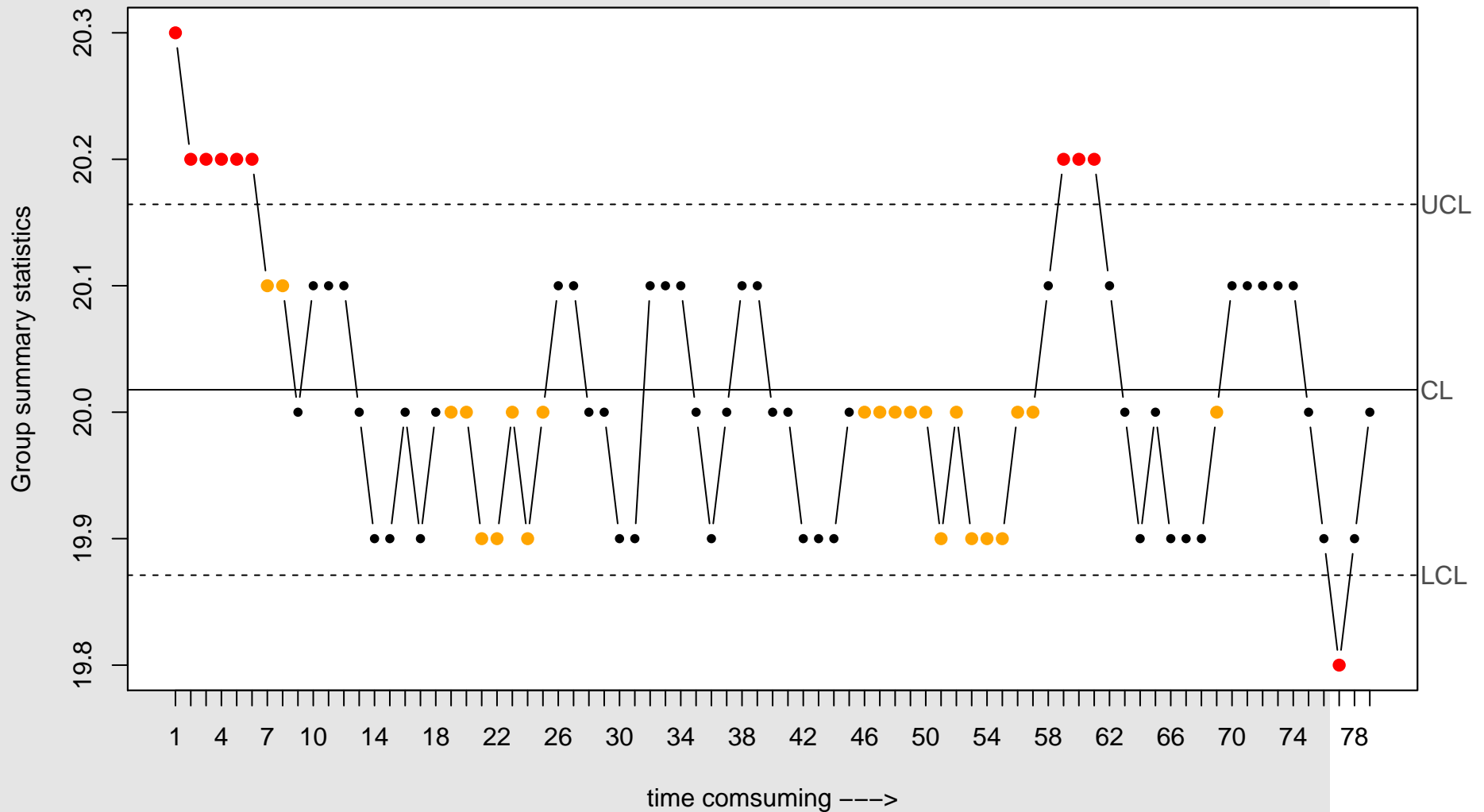
319th column point of this product



320th column point of this product



321th column point of this product



Number of groups = 79

Center = 20.01772

StdDev = 0.04887252

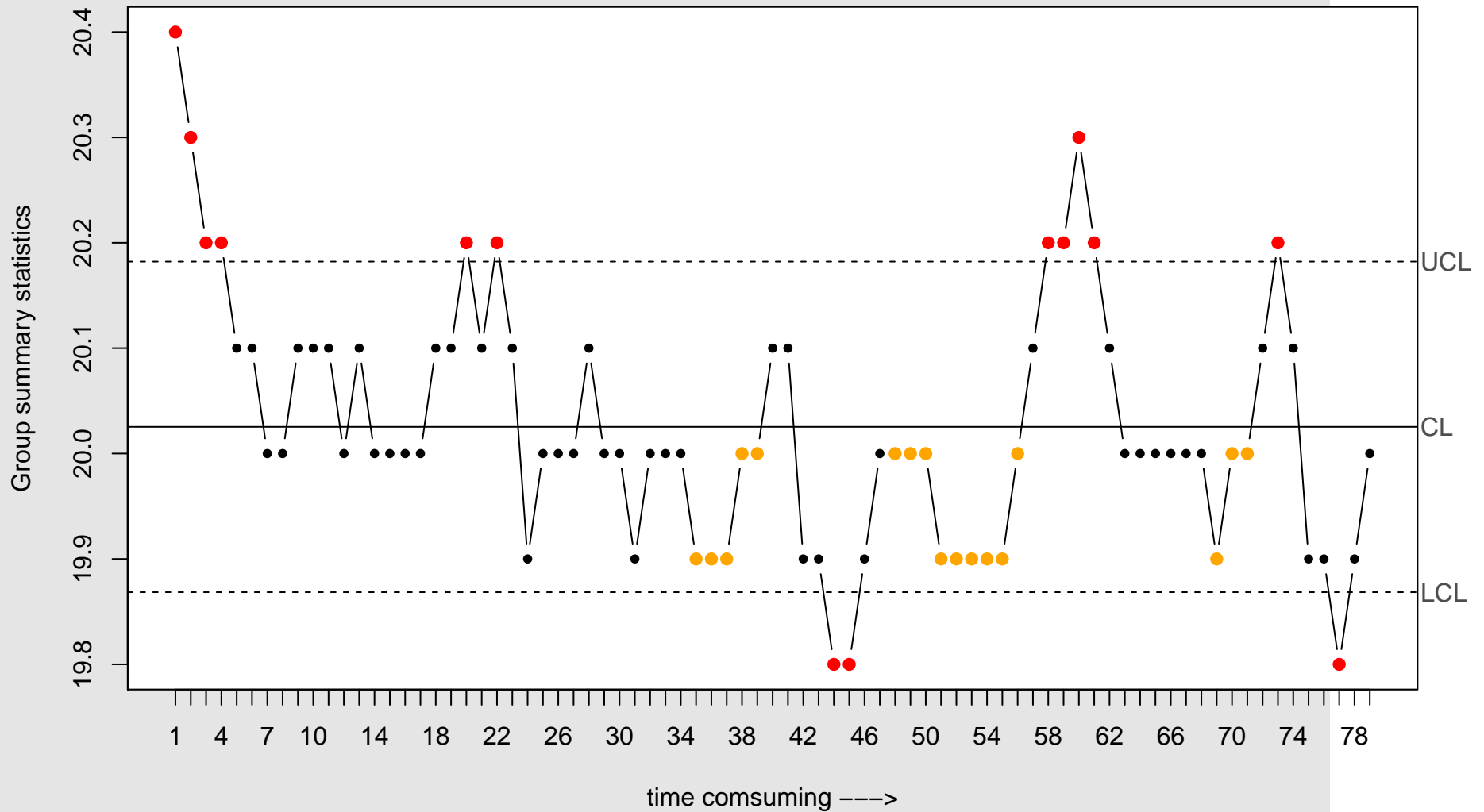
LCL = 19.8711

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