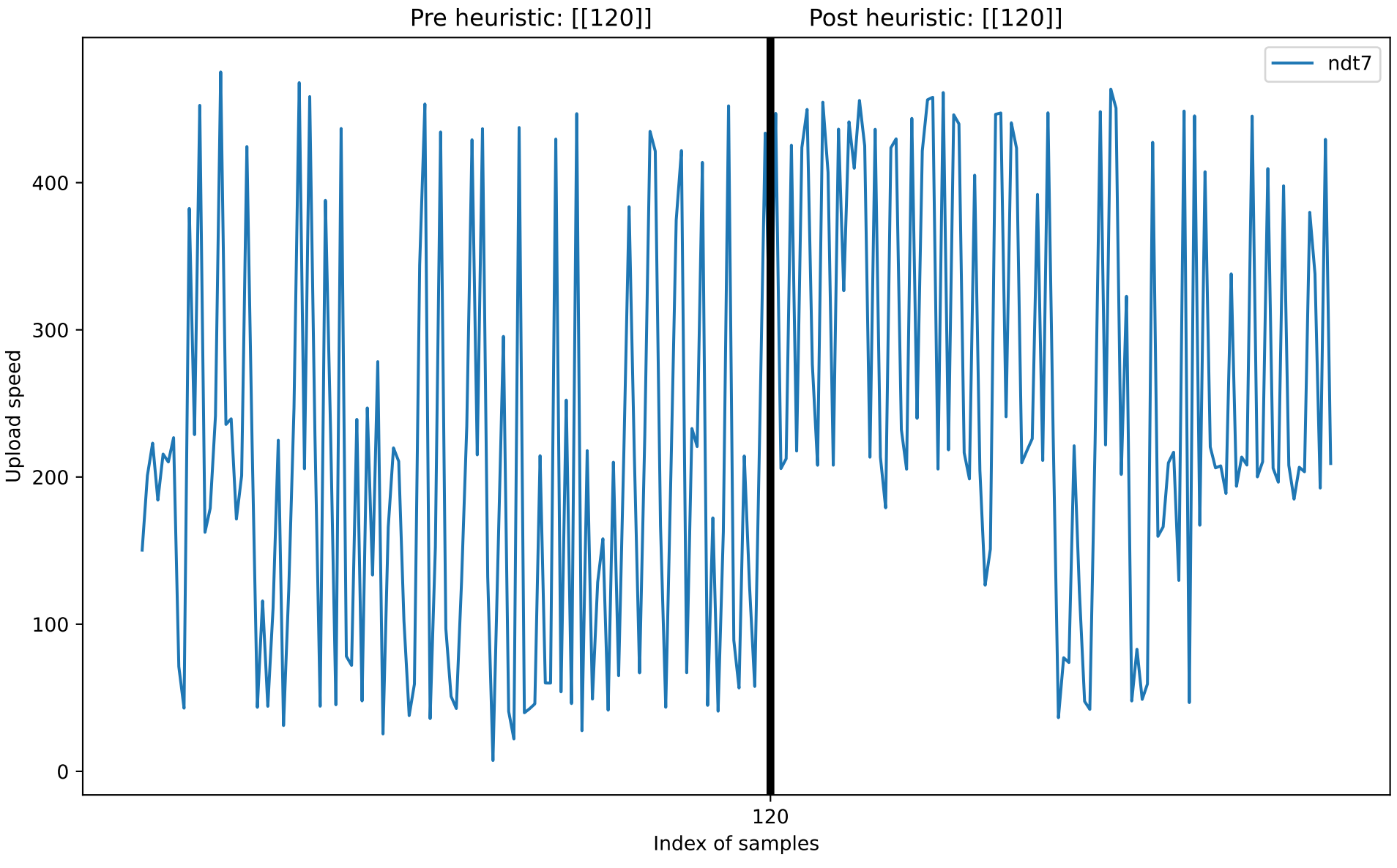
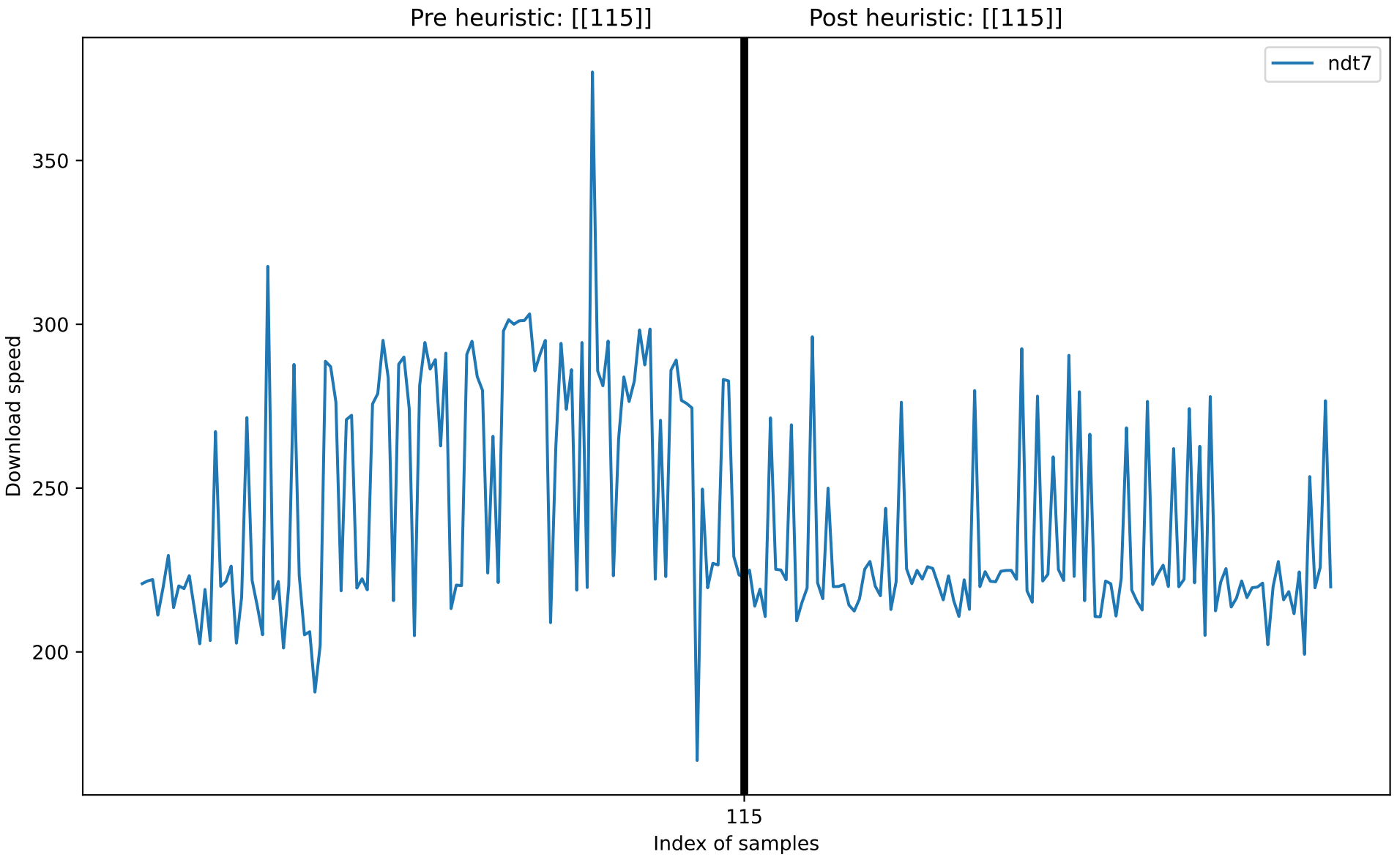
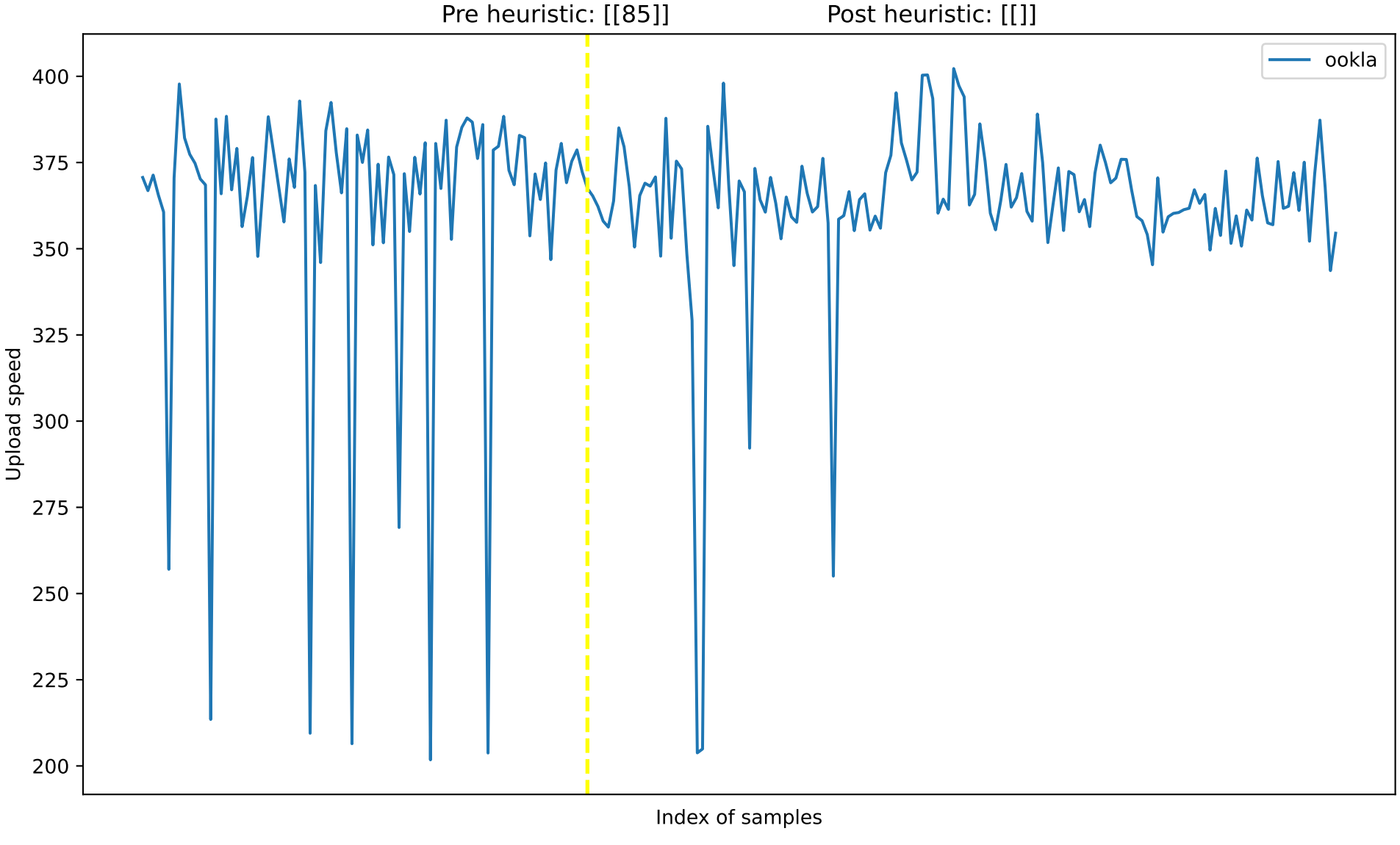
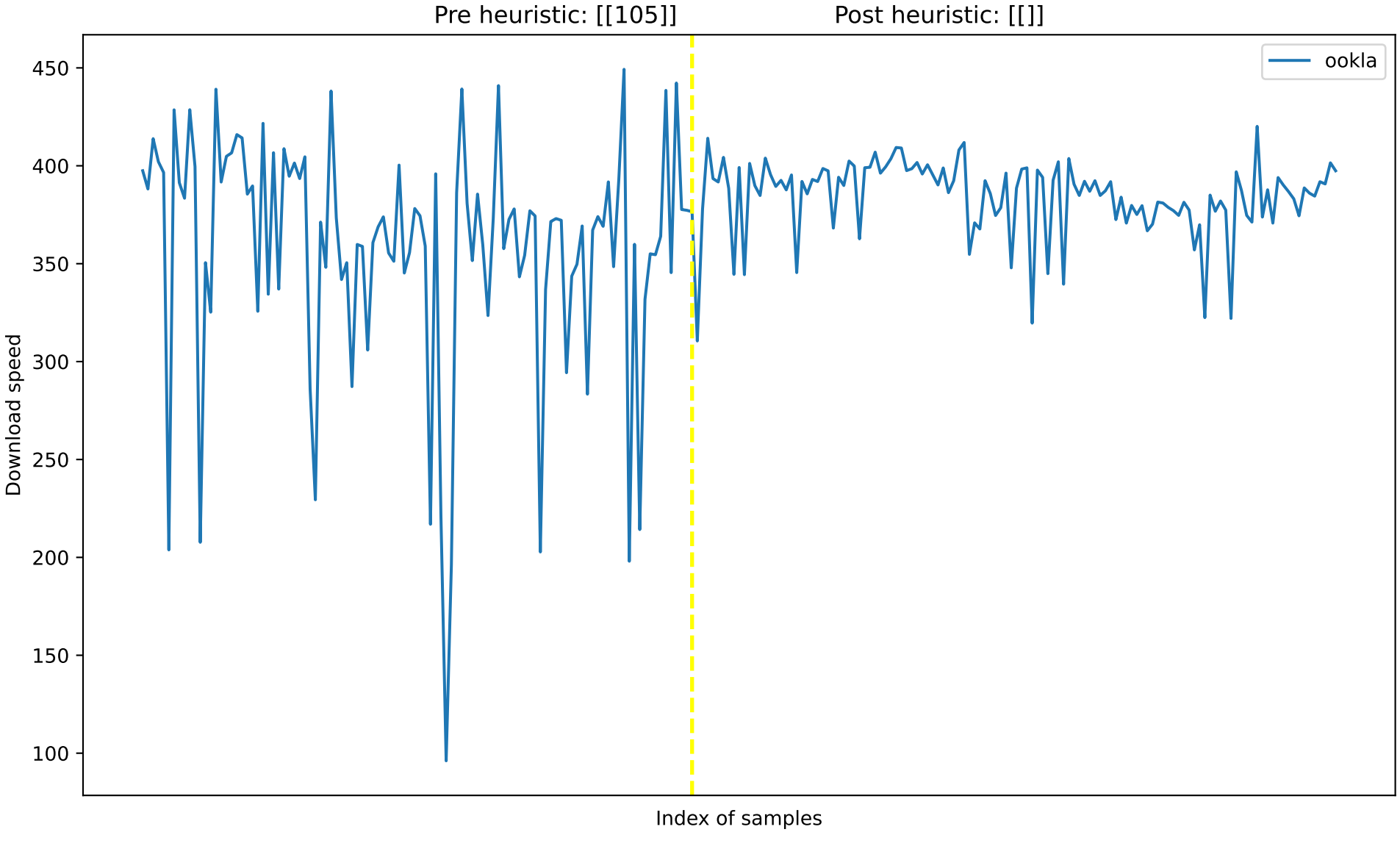
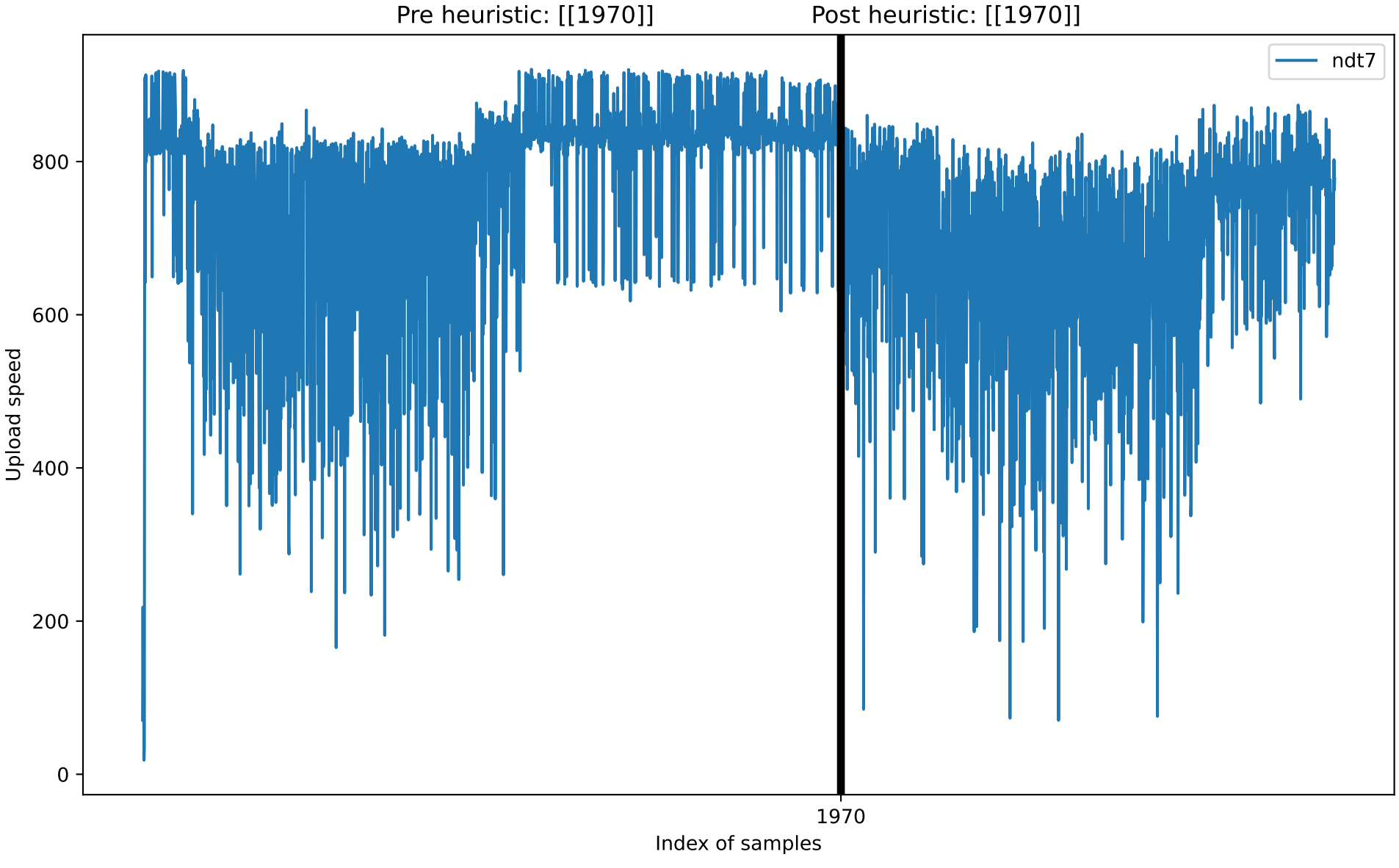
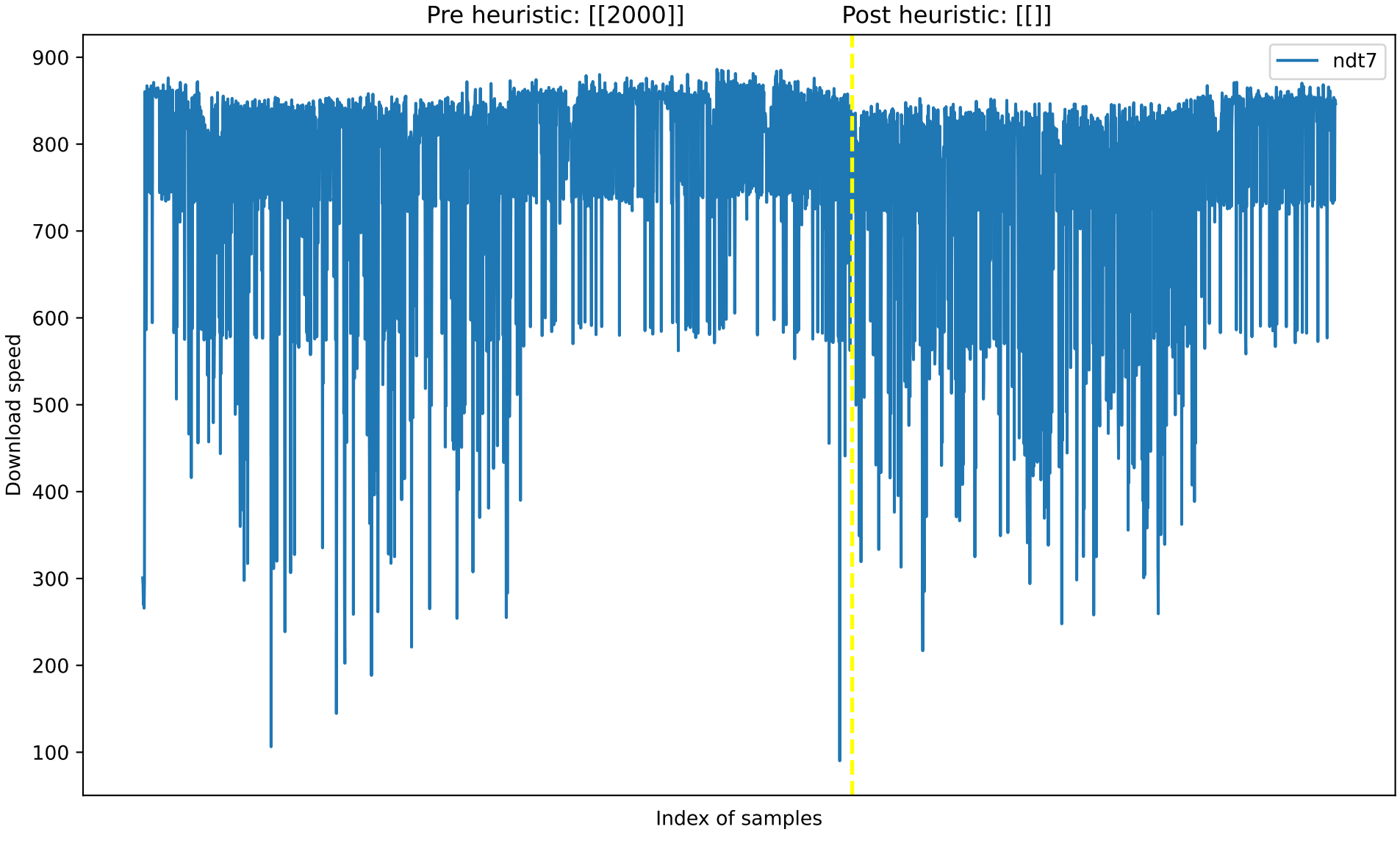

Pre heuristic: [[120]]
Post heuristic: [[120]]
ndt7
Upload speed
0
100
200
300
400
120
Index of samples

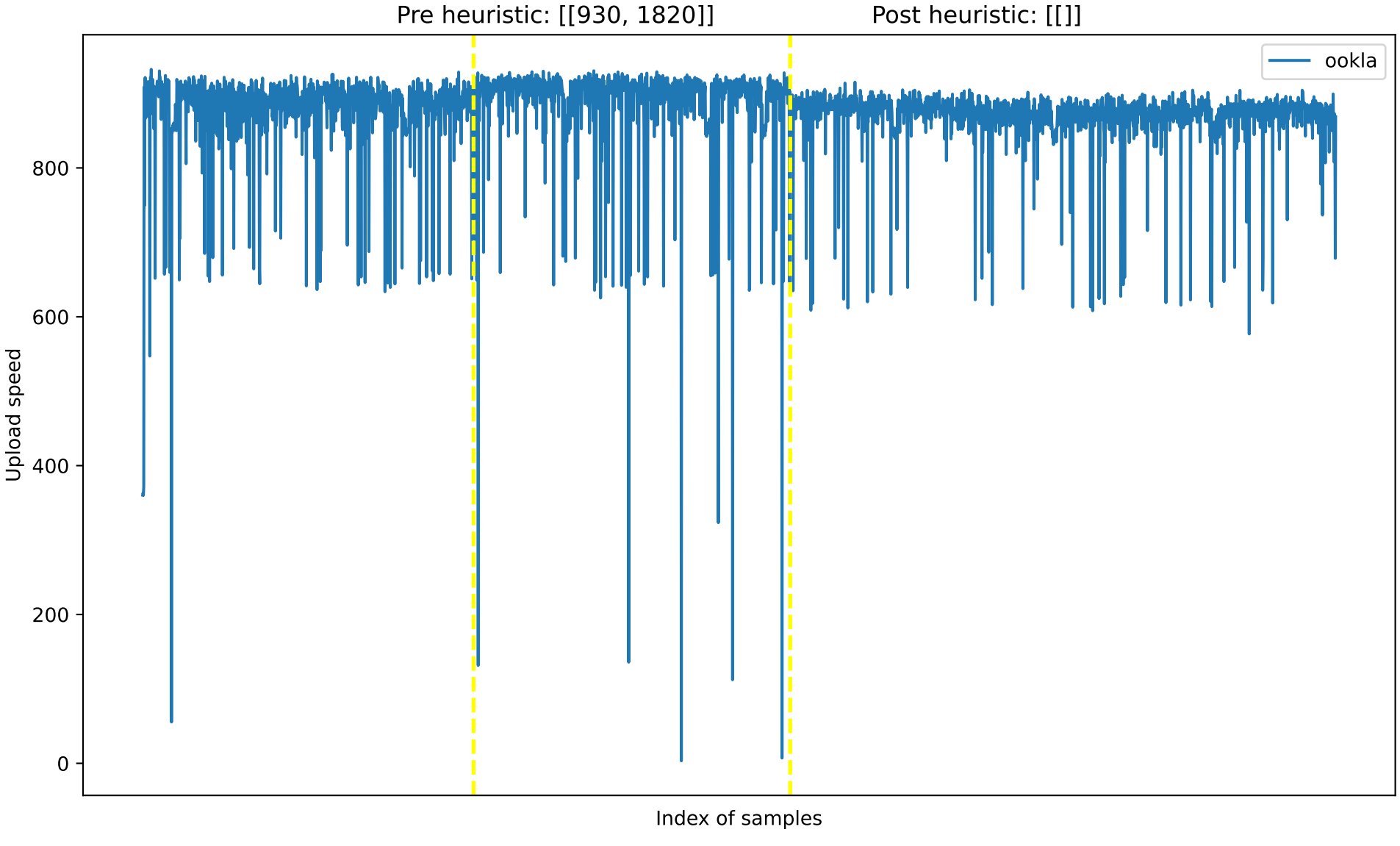

Pre heuristic: [[115]]
Post heuristic: [[115]]
ndt7
350
300
250
200
Download speed
115
Index of samples

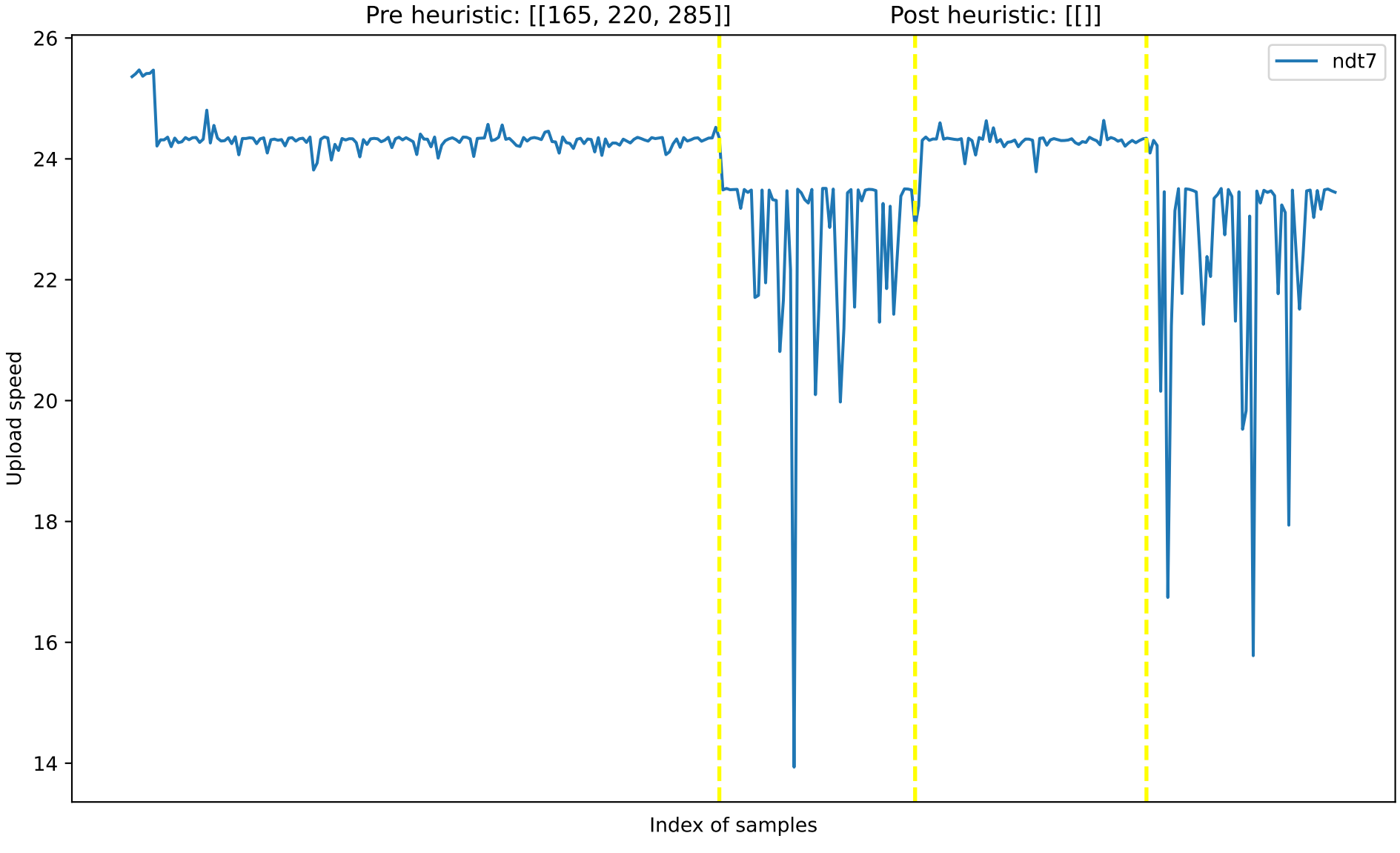

Pre heuristic: [[85]]
Post heuristic: [[]]
ookla
Upload speed
400
375
350
325
300
275
250
225
200
Index of samples

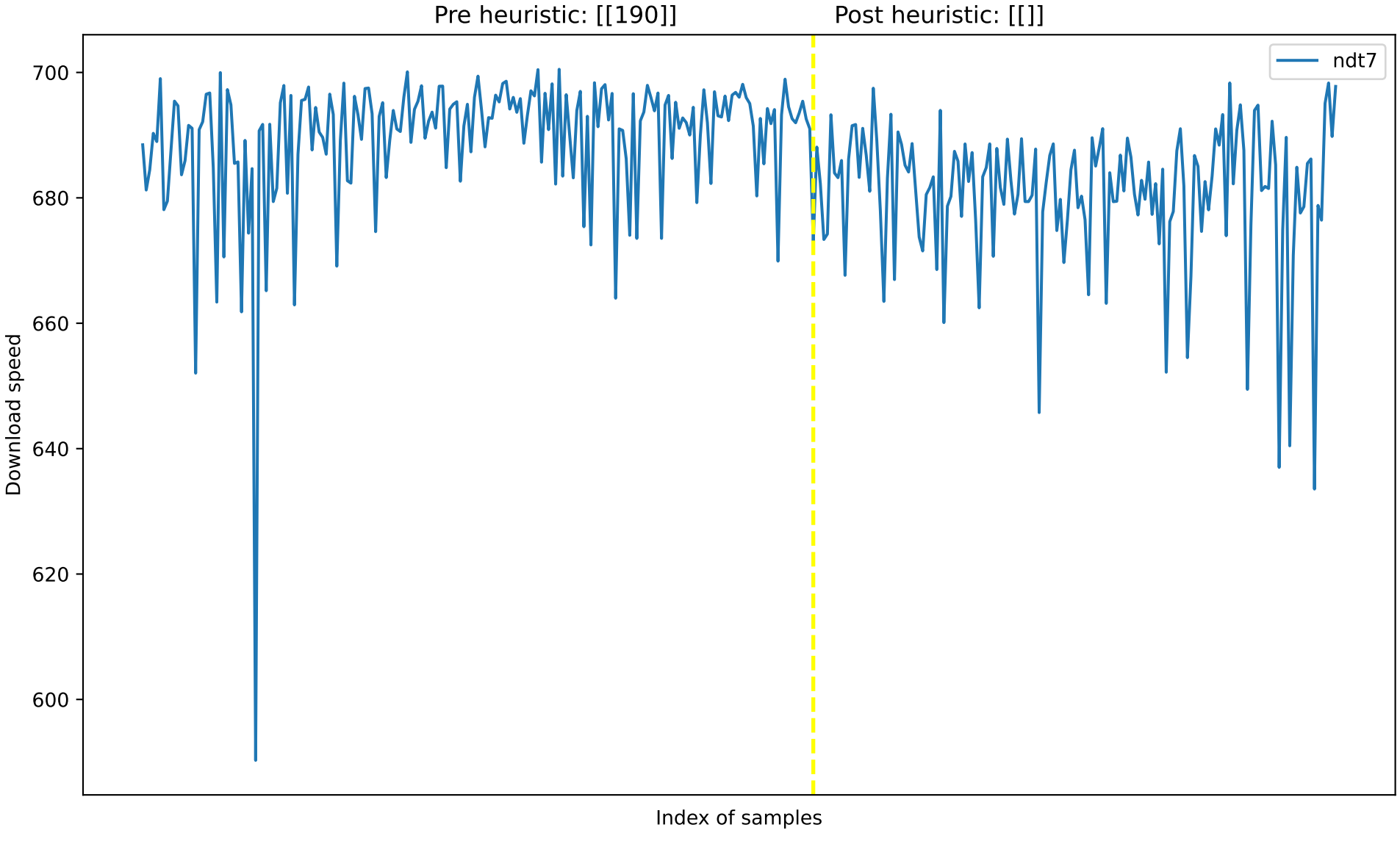

Pre heuristic: [[105]]
Post heuristic: [[]]
ookla
Download speed
Index of samples
450
400
350
300
250
200
150
100

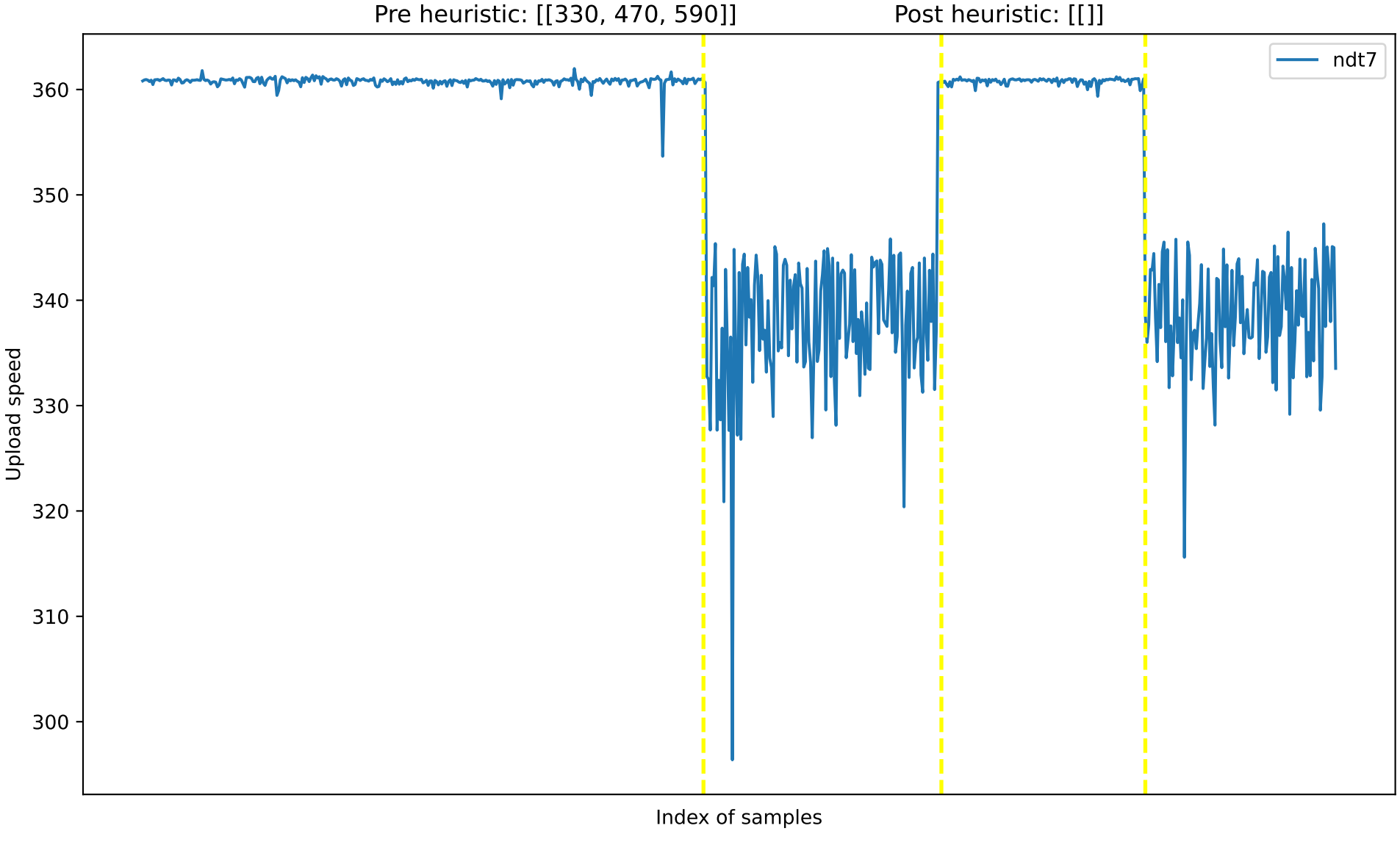

Pre heuristic: [[1970]]
Post heuristic: [[1970]]
ndt7
Upload speed
0
200
400
600
800
1970
Index of samples

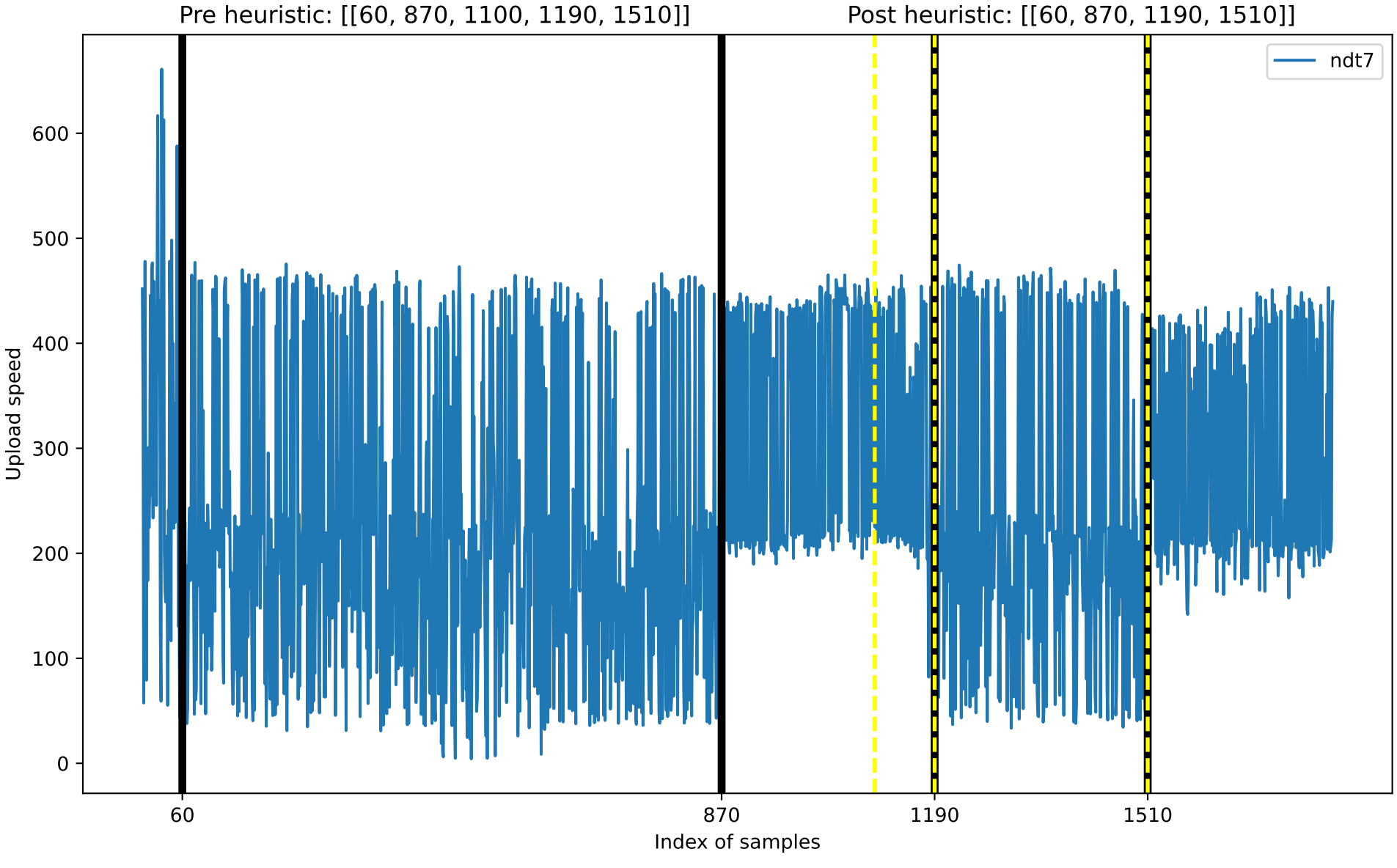

Pre heuristic: [[2000]]
Post heuristic: [[]]
ndt7
900
800
700
600
500
400
300
200
100
Download speed
Index of samples

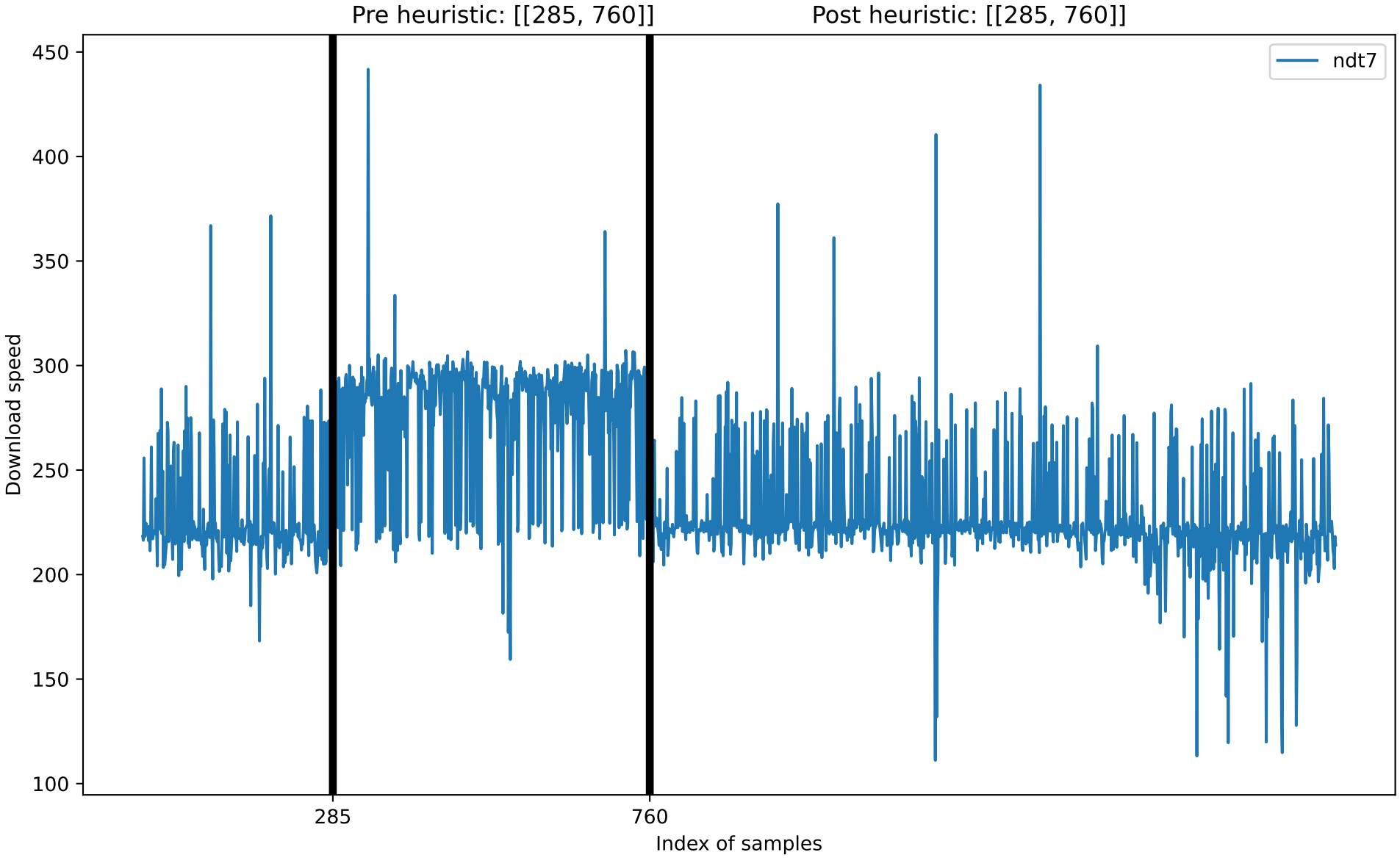

Pre heuristic: [[930, 1820]]
Post heuristic: [[]]
ookla
800
600
400
200
0
Upload speed
Index of samples

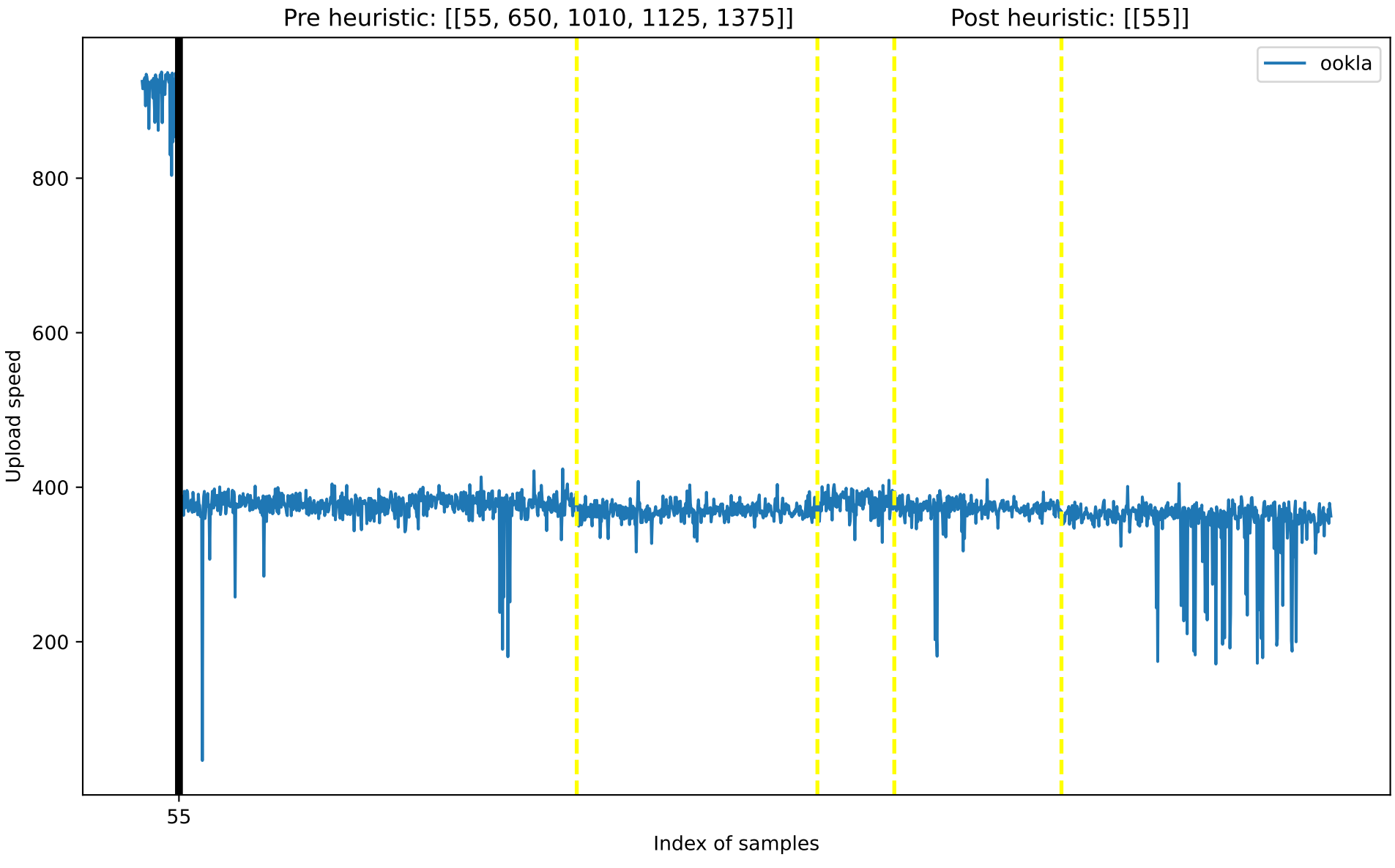

Pre heuristic: [[165, 220, 285]]
Post heuristic: [[]]
ndt7
Upload speed
Index of samples
26
24
22
20
18
16
14

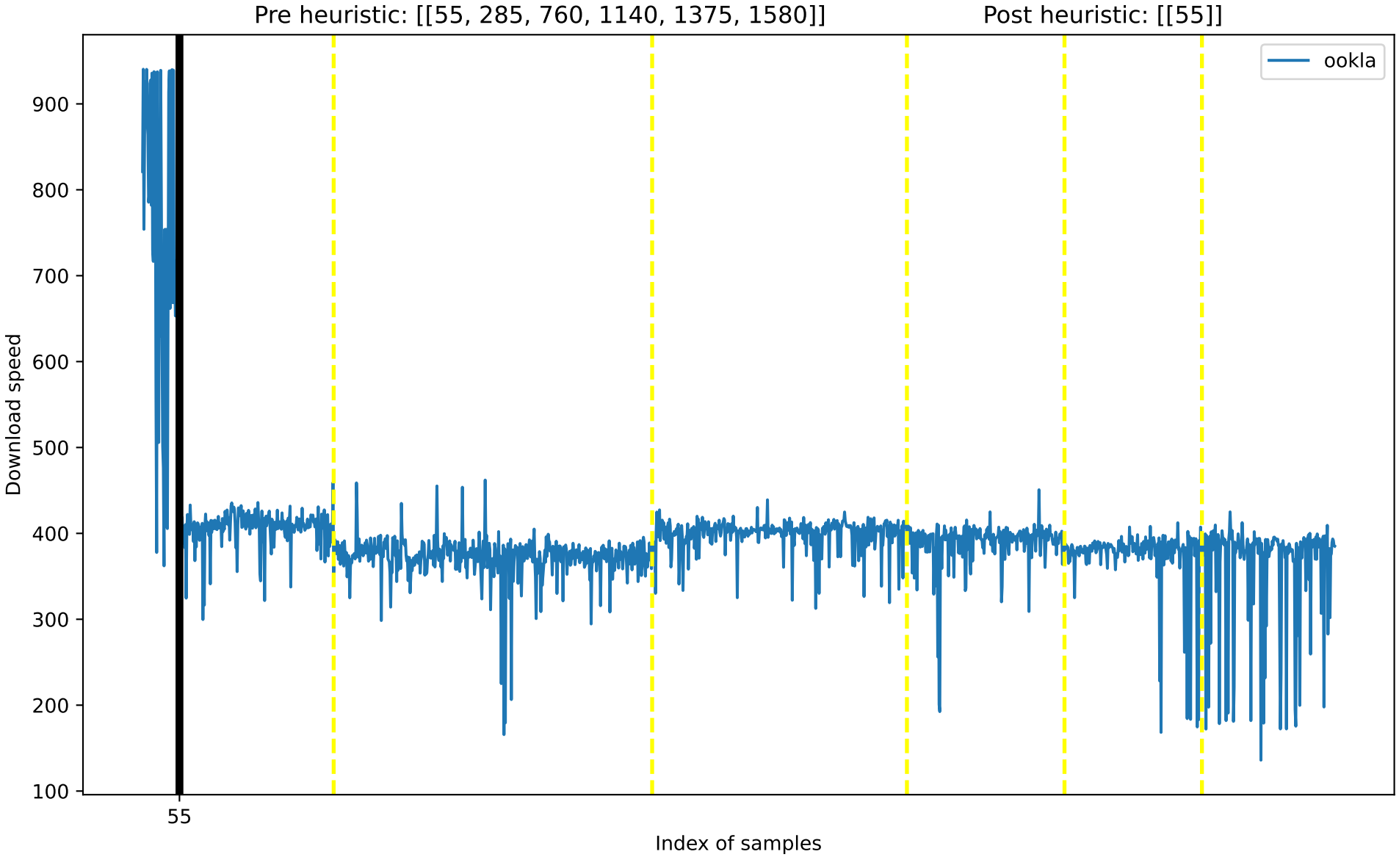

Pre heuristic: [[190]]
Post heuristic: [[]]
ndt7
700
680
660
640
620
600
Download speed
Index of samples

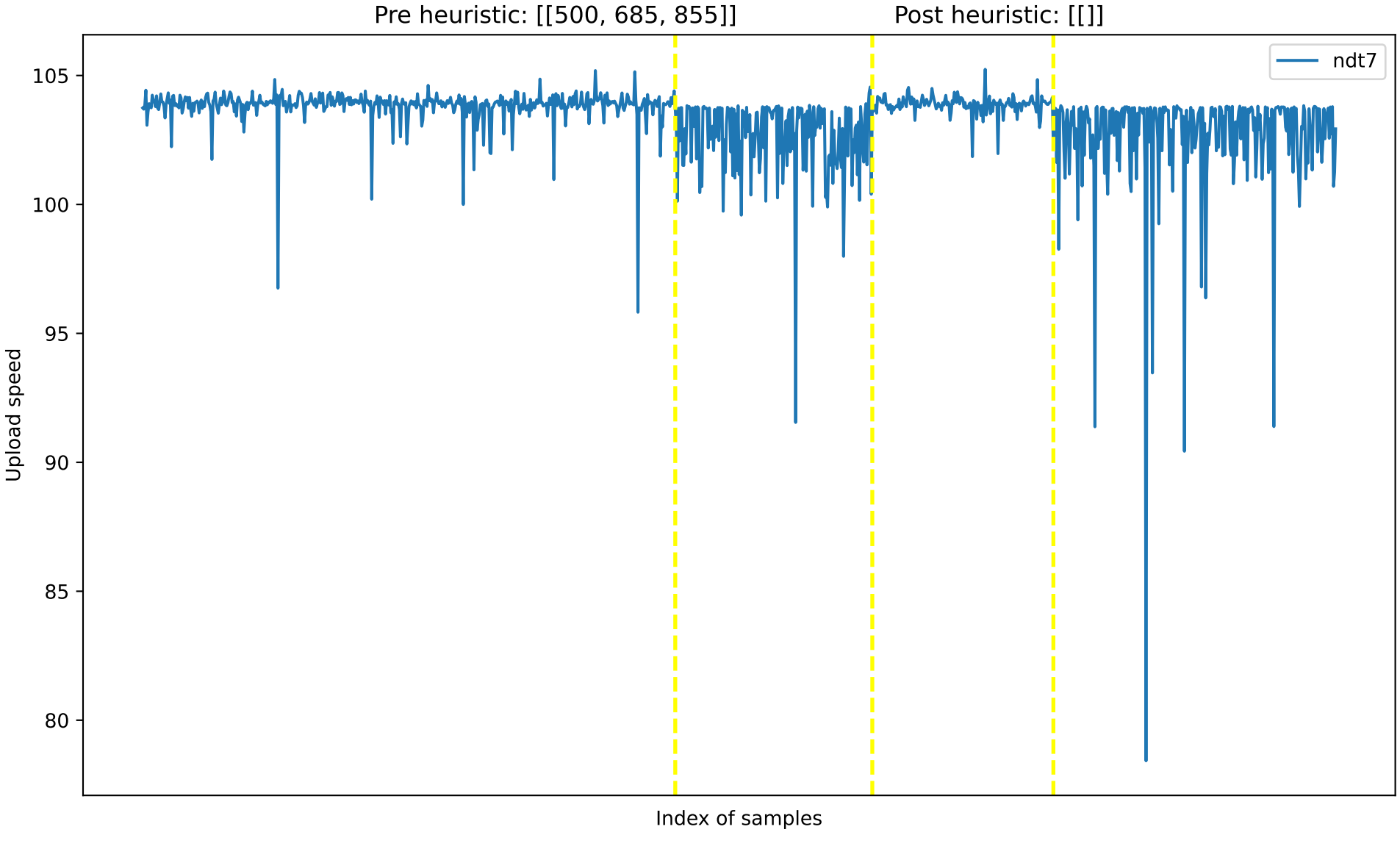

Pre heuristic: [[330, 470, 590]]
Post heuristic: [[]]
ndt7
Upload speed
360
350
340
330
320
310
300
Index of samples

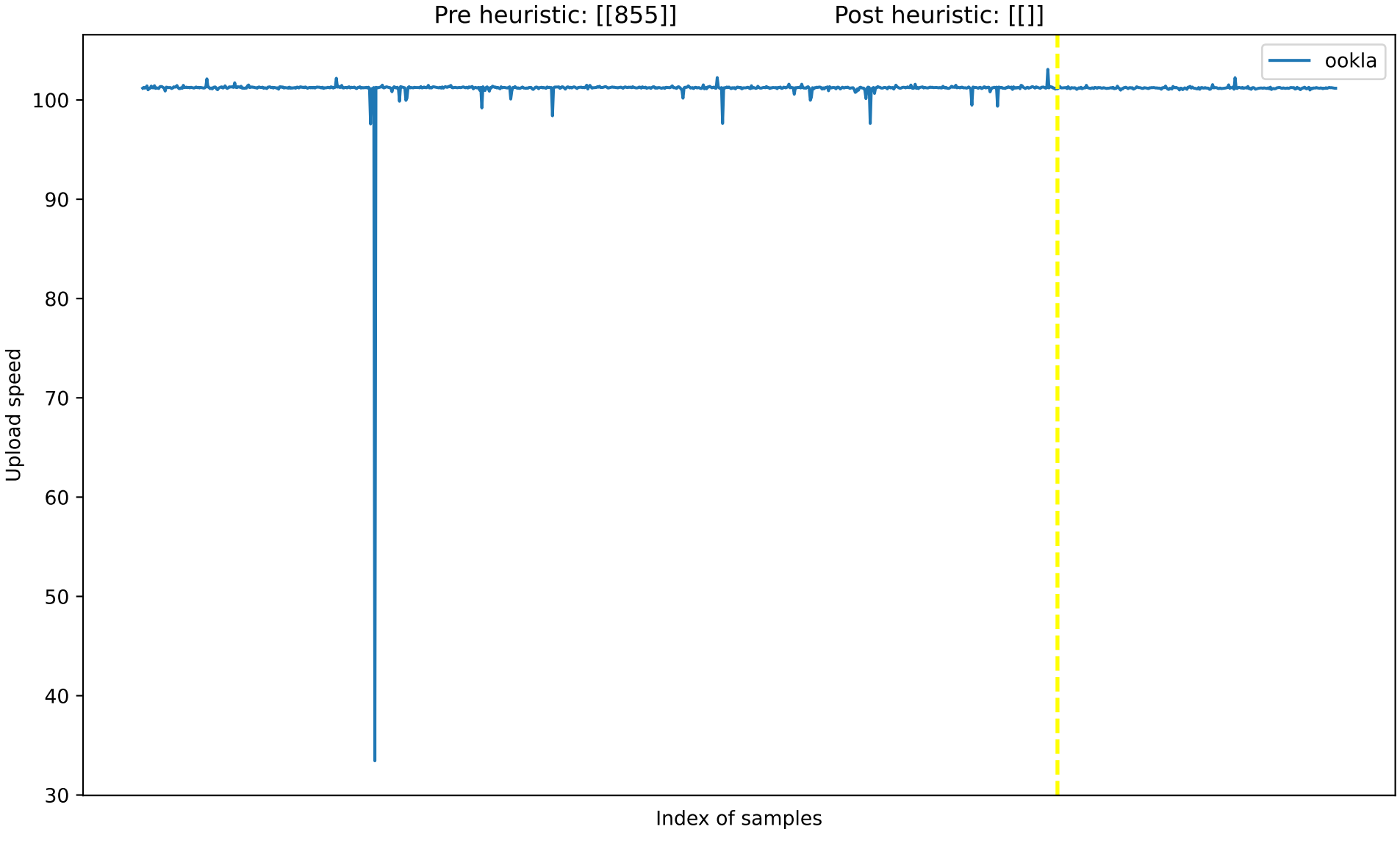

Pre heuristic: [[60, 870, 1100, 1190, 1510]]
Post heuristic: [[60, 870, 1190, 1510]]
ndt7
Upload speed
0
100
200
300
400
500
600
60
870
1190
1510
Index of samples

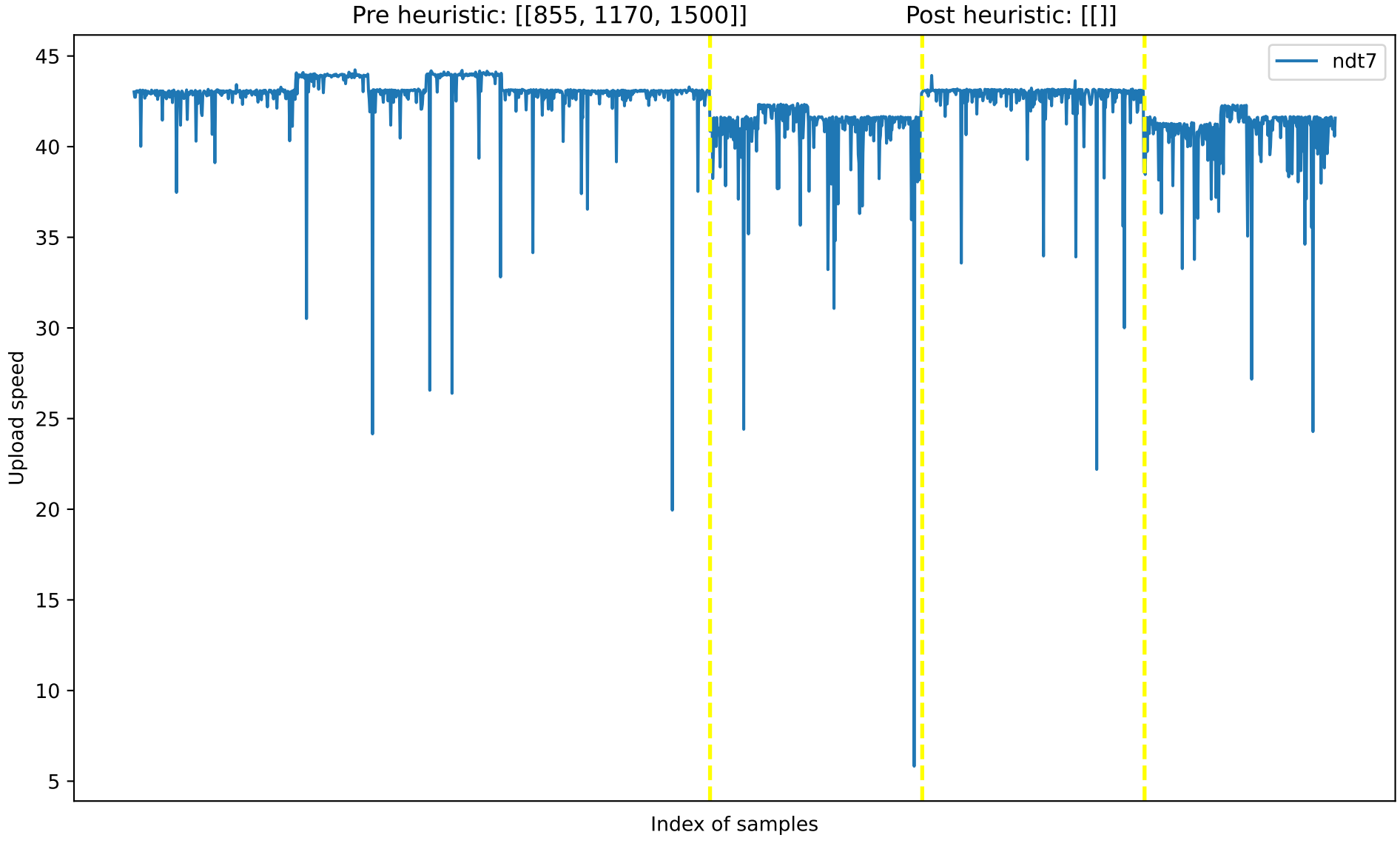

Pre heuristic: [[285, 760]]
Post heuristic: [[285, 760]]
ndt7
Download speed
450
400
350
300
250
200
150
100
285
760
Index of samples

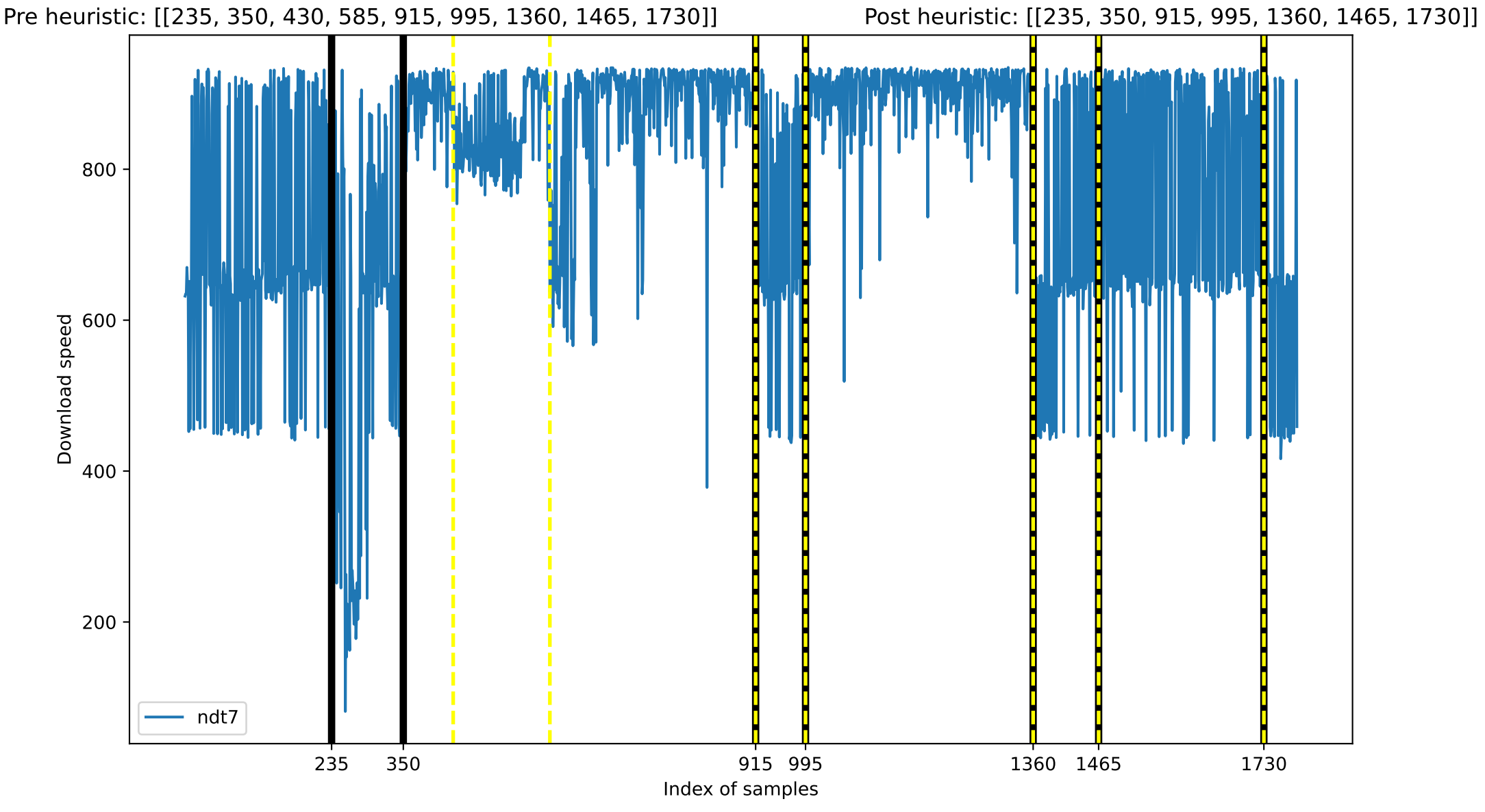

Pre heuristic: [[55, 650, 1010, 1125, 1375]]
Post heuristic: [[55]]
ookla
800
600
400
200
Upload speed
55
Index of samples

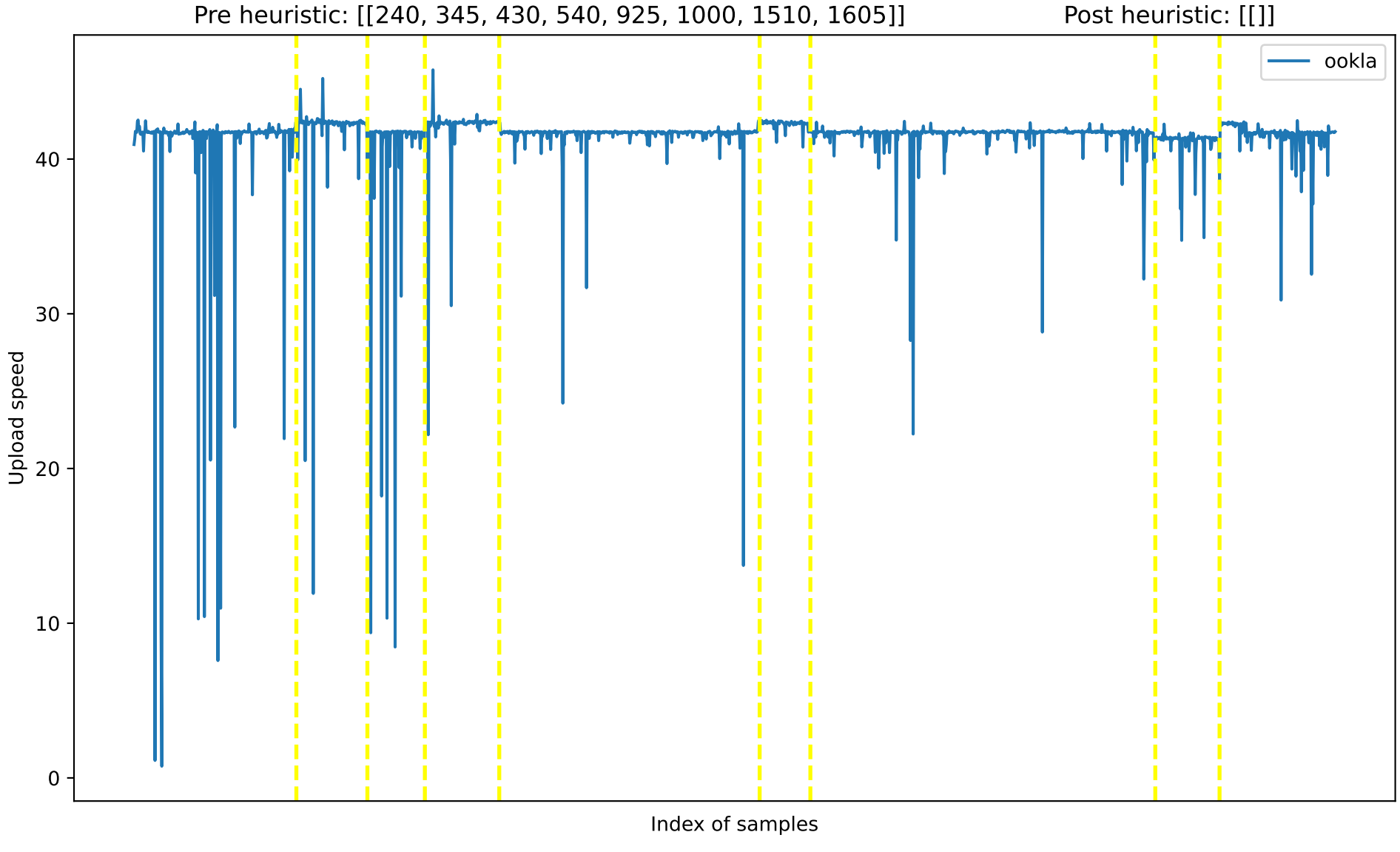

Pre heuristic: [[55, 285, 760, 1140, 1375, 1580]]
Post heuristic: [[55]]
ookla
Download speed
900
800
700
600
500
400
300
200
100
55
Index of samples

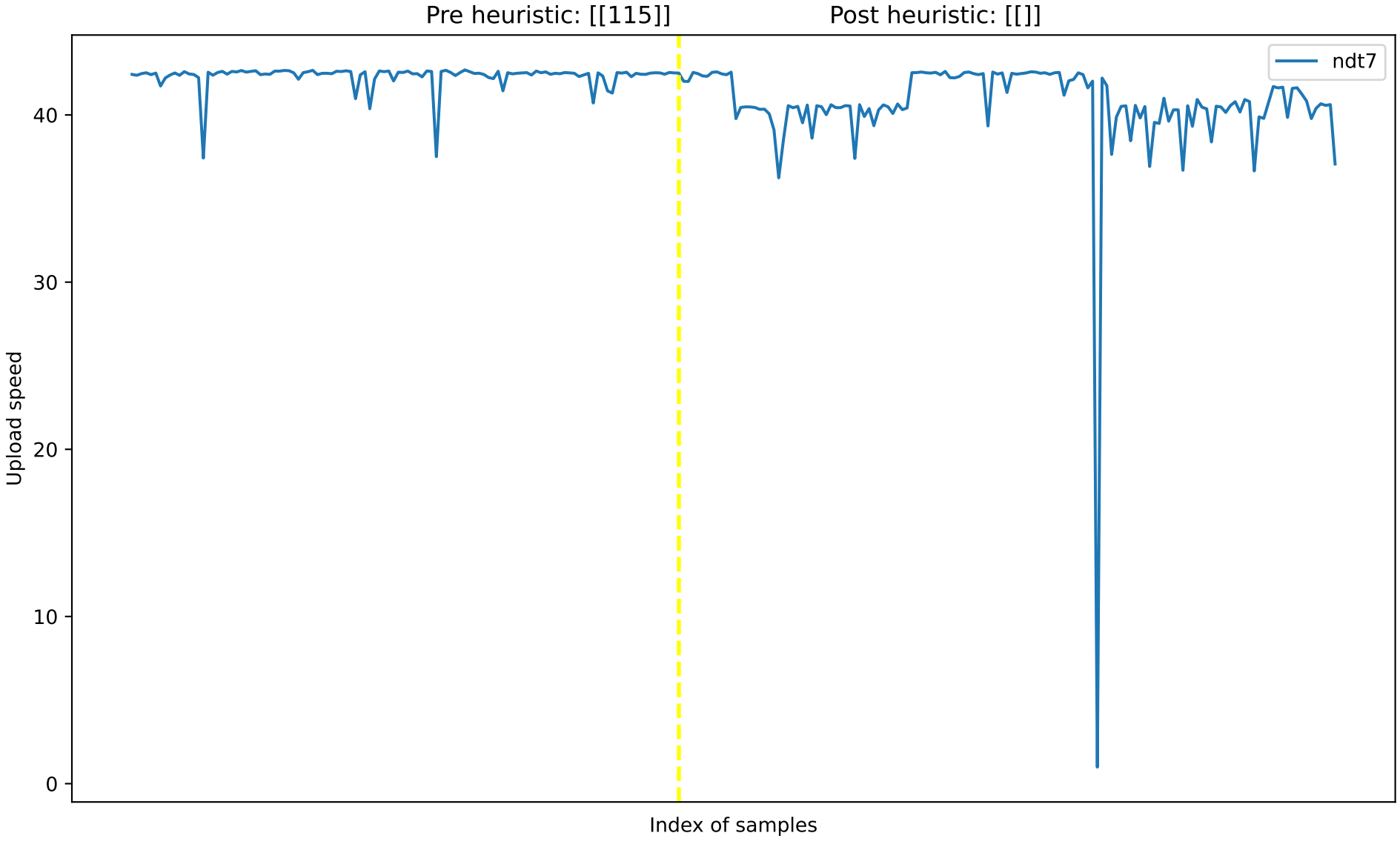

Pre heuristic: [[500, 685, 855]]
Post heuristic: [[]]
ndt7
105
100
95
90
85
80
Upload speed
Index of samples

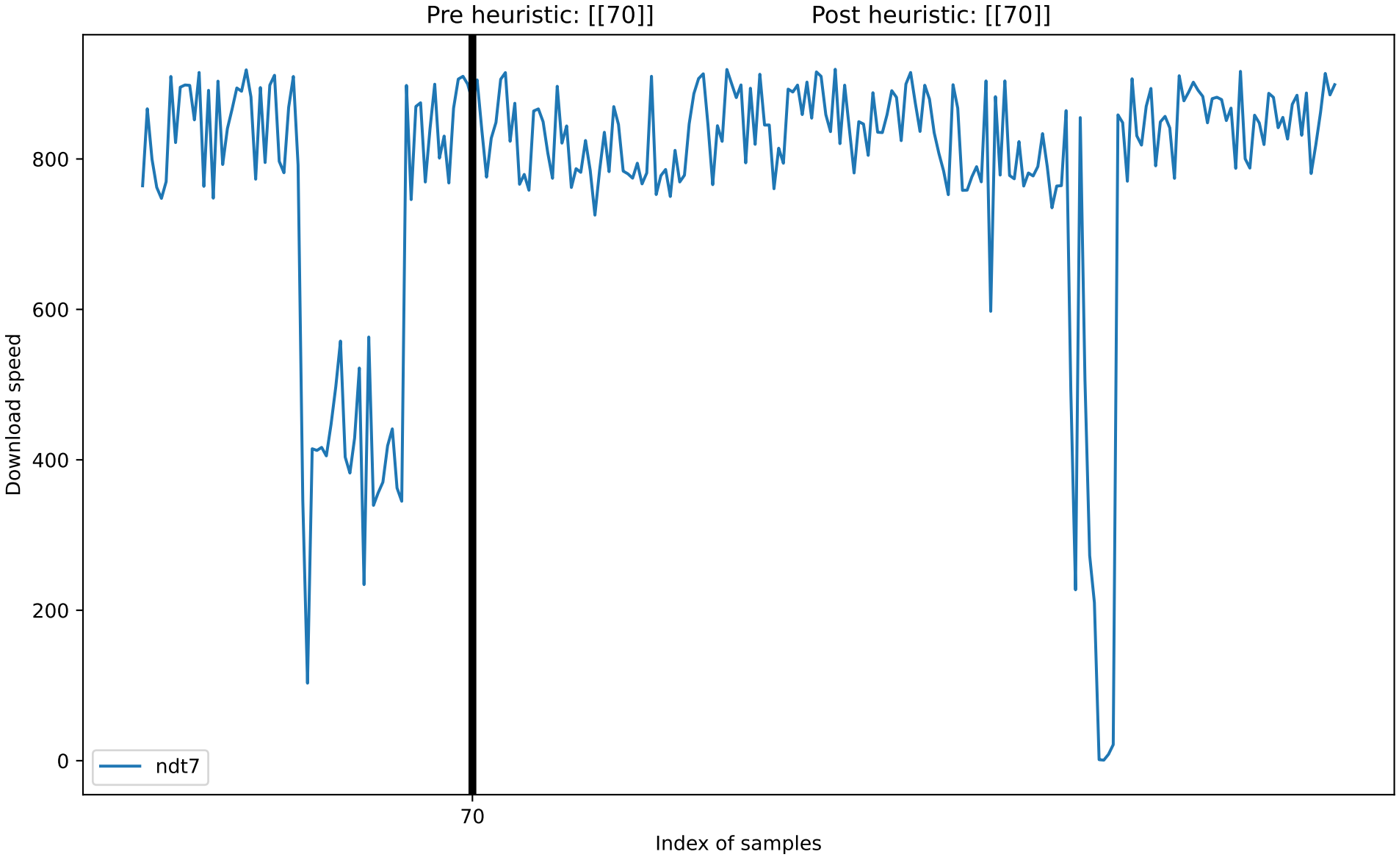

Pre heuristic: [[855]]
Post heuristic: [[]]
ookla
Upload speed
100
90
80
70
60
50
40
30
Index of samples

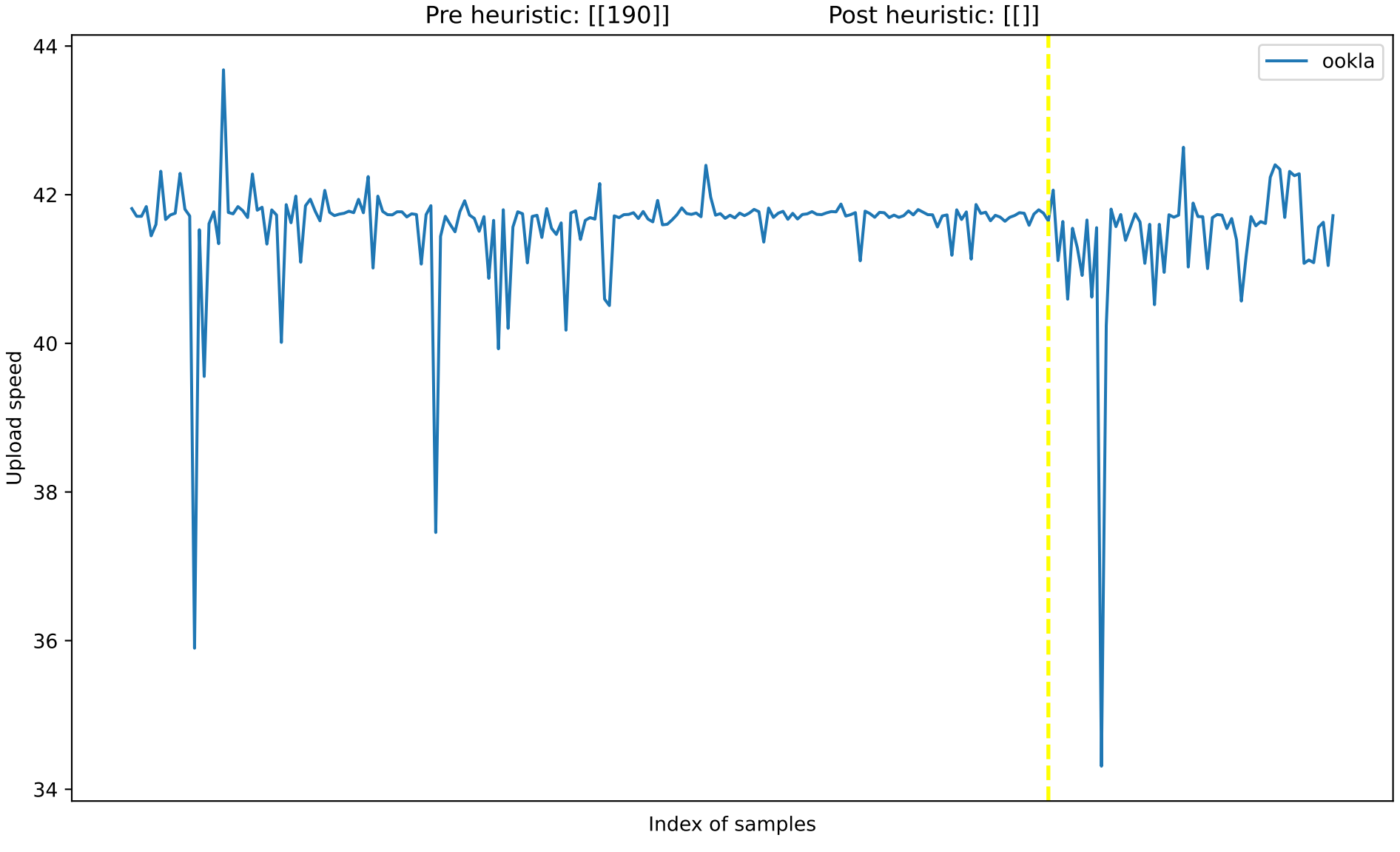

Pre heuristic: [[855, 1170, 1500]]
Post heuristic: [[]]
ndt7
Upload speed
Index of samples
45
40
35
30
25
20
15
10
5

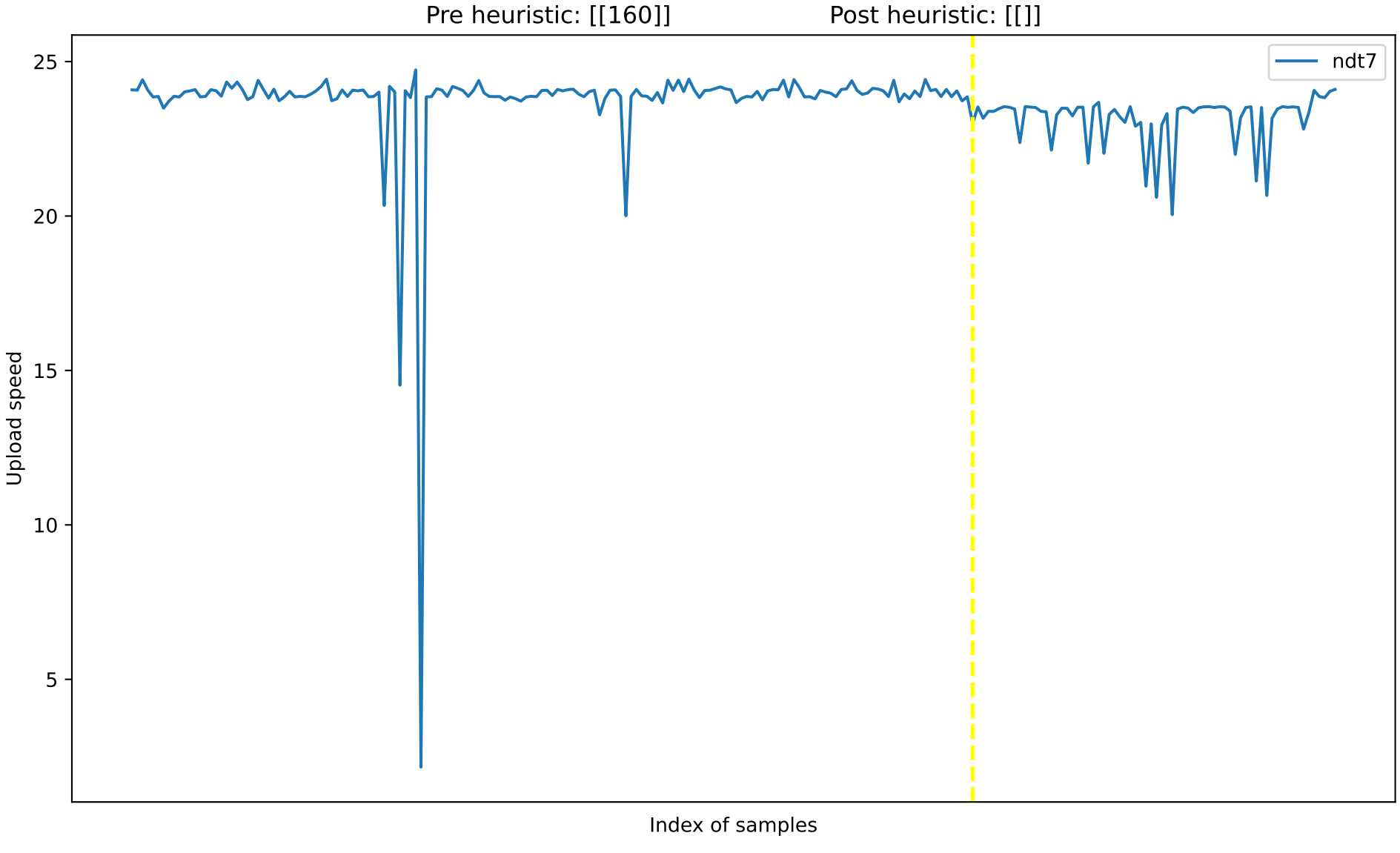

Pre heuristic: [[235, 350, 430, 585, 915, 995, 1360, 1465, 1730]]
Post heuristic: [[235, 350, 915, 995, 1360, 1465, 1730]]
Download speed
800
600
400
200
ndt7
235
350
915
995
1360
1465
1730
Index of samples

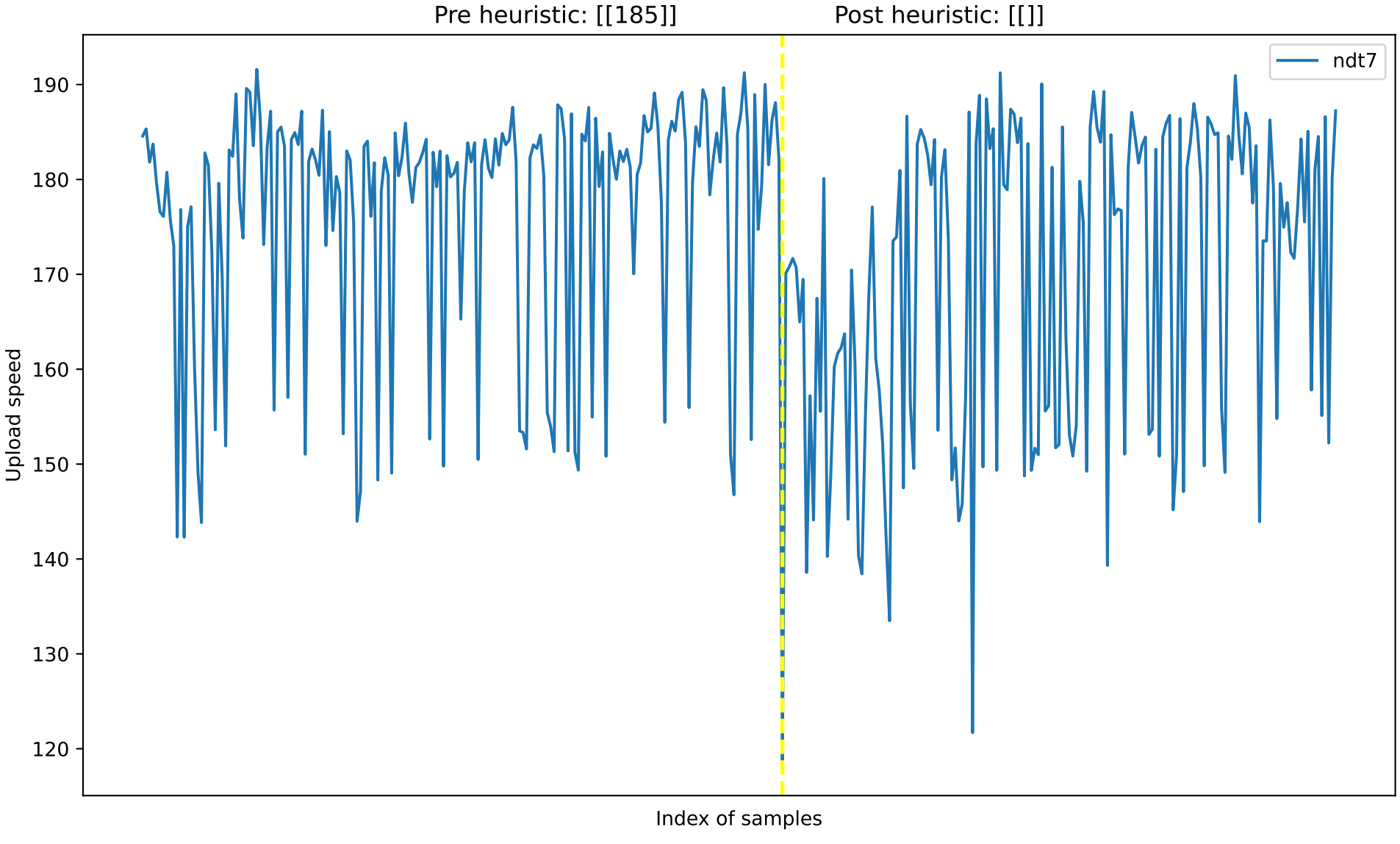

Pre heuristic: [[240, 345, 430, 540, 925, 1000, 1510, 1605]]
Post heuristic: [[]]
ookla
Upload speed
0
10
20
30
40
Index of samples

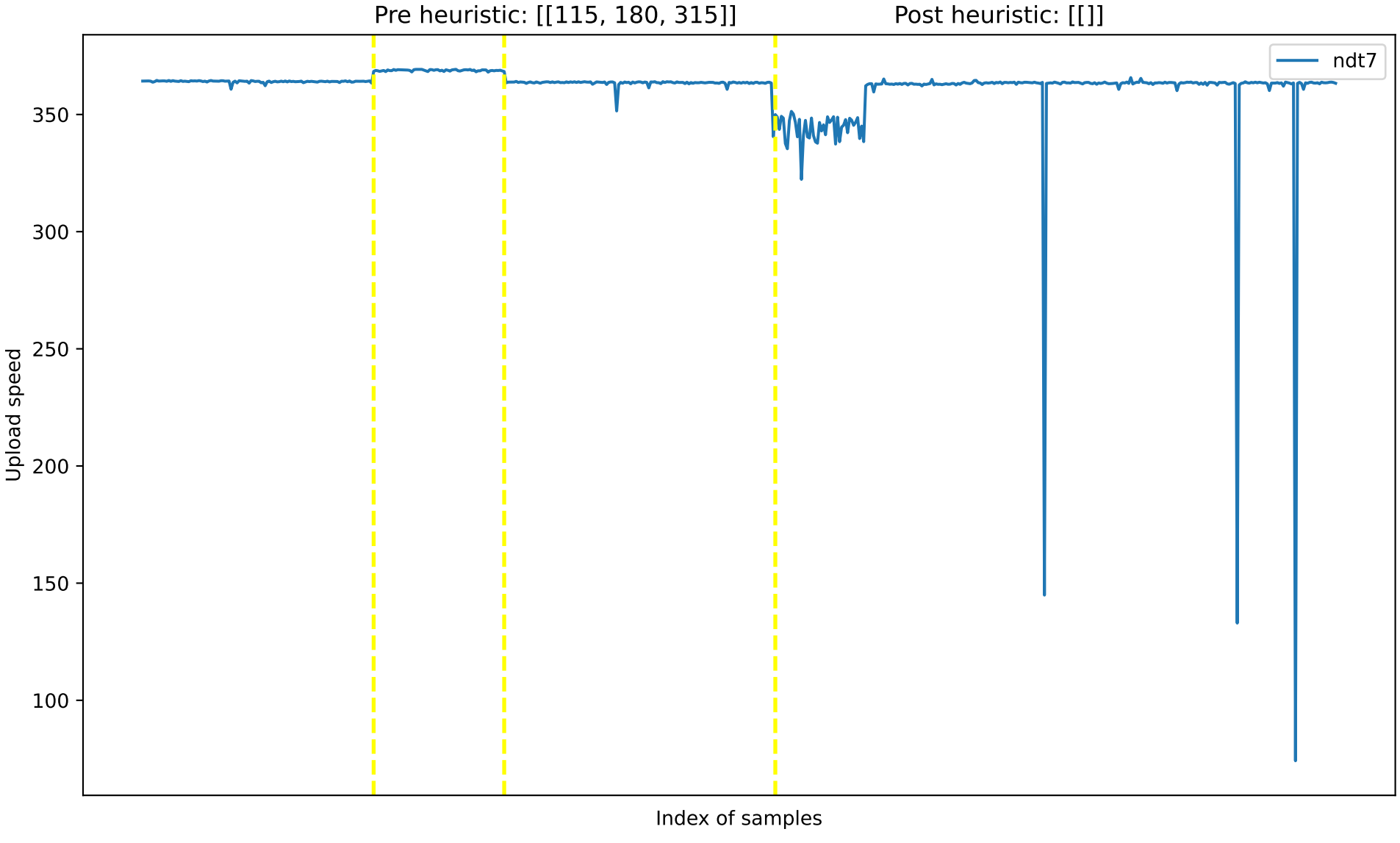

Pre heuristic: [[115]]
Post heuristic: [[]]
ndt7
Upload speed
0
10
20
30
40
Index of samples

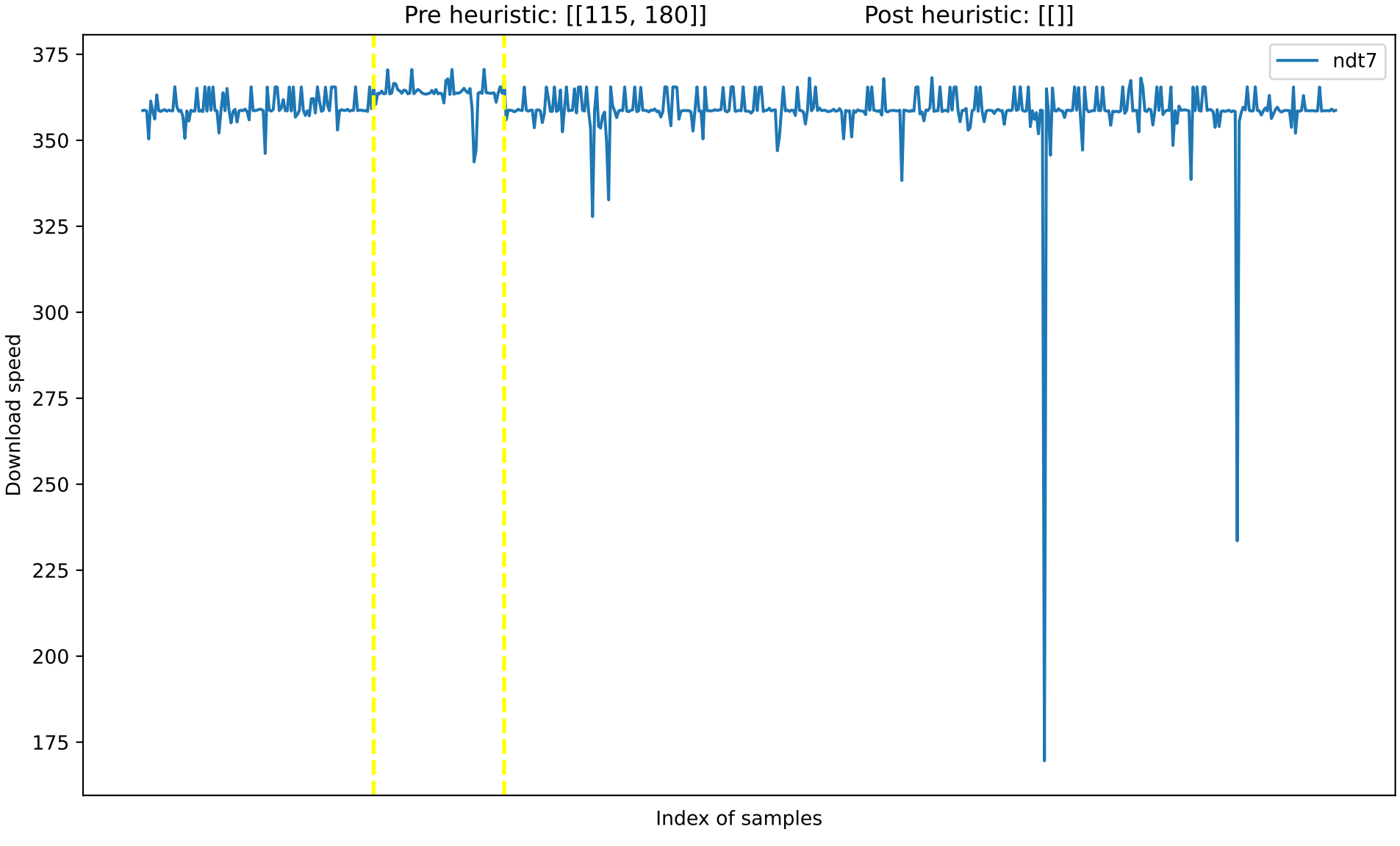

Pre heuristic: [[70]]
Post heuristic: [[70]]
Download speed
800
600
400
200
0
ndt7
70
Index of samples

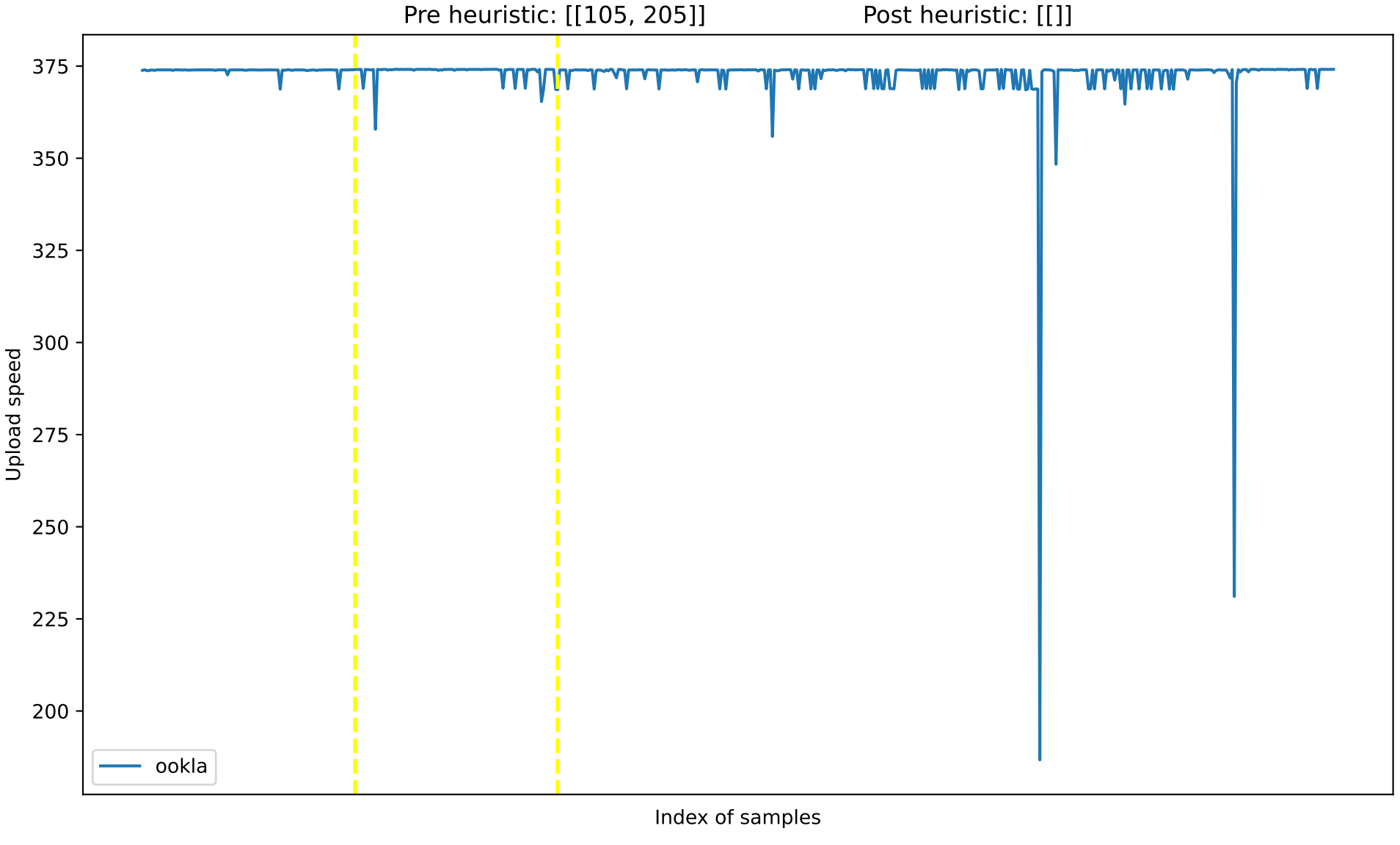

Pre heuristic: [[190]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
44
42
40
38
36
34

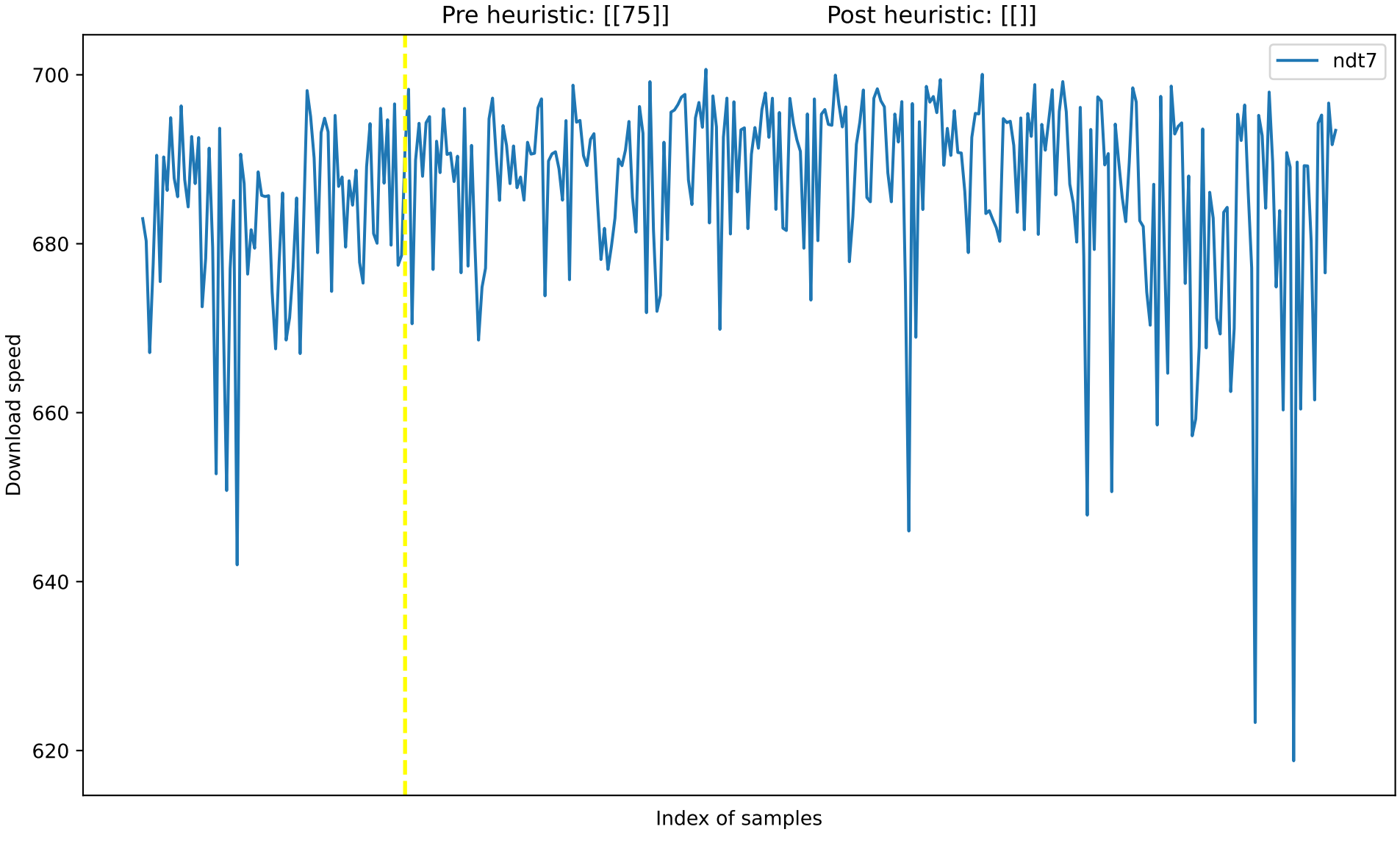

Pre heuristic: [[160]]
Post heuristic: [[]]
ndt7
Upload speed
25
20
15
10
5
Index of samples

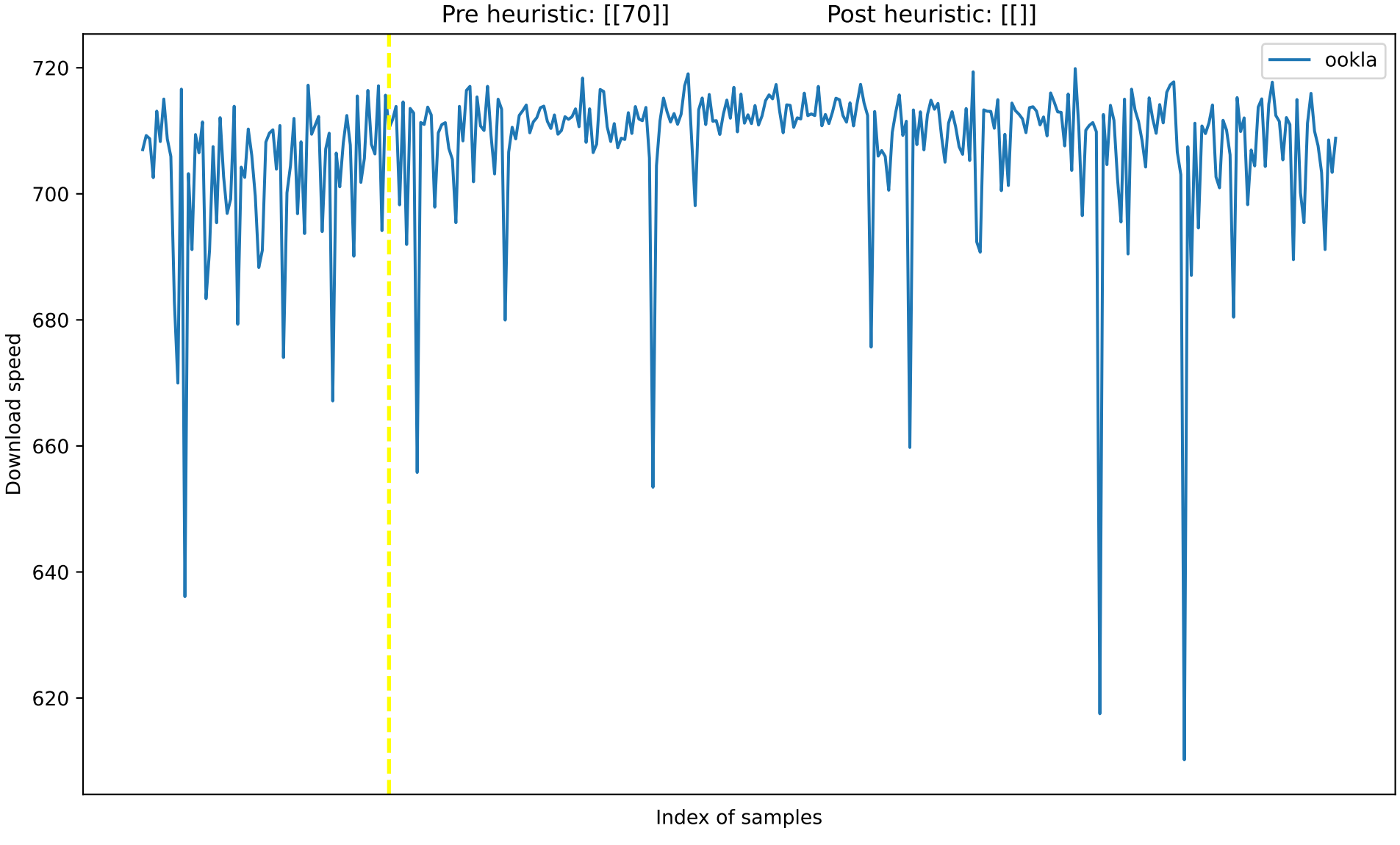

Pre heuristic: [[185]]
Post heuristic: [[]]
ndt7
Upload speed
190
180
170
160
150
140
130
120
Index of samples

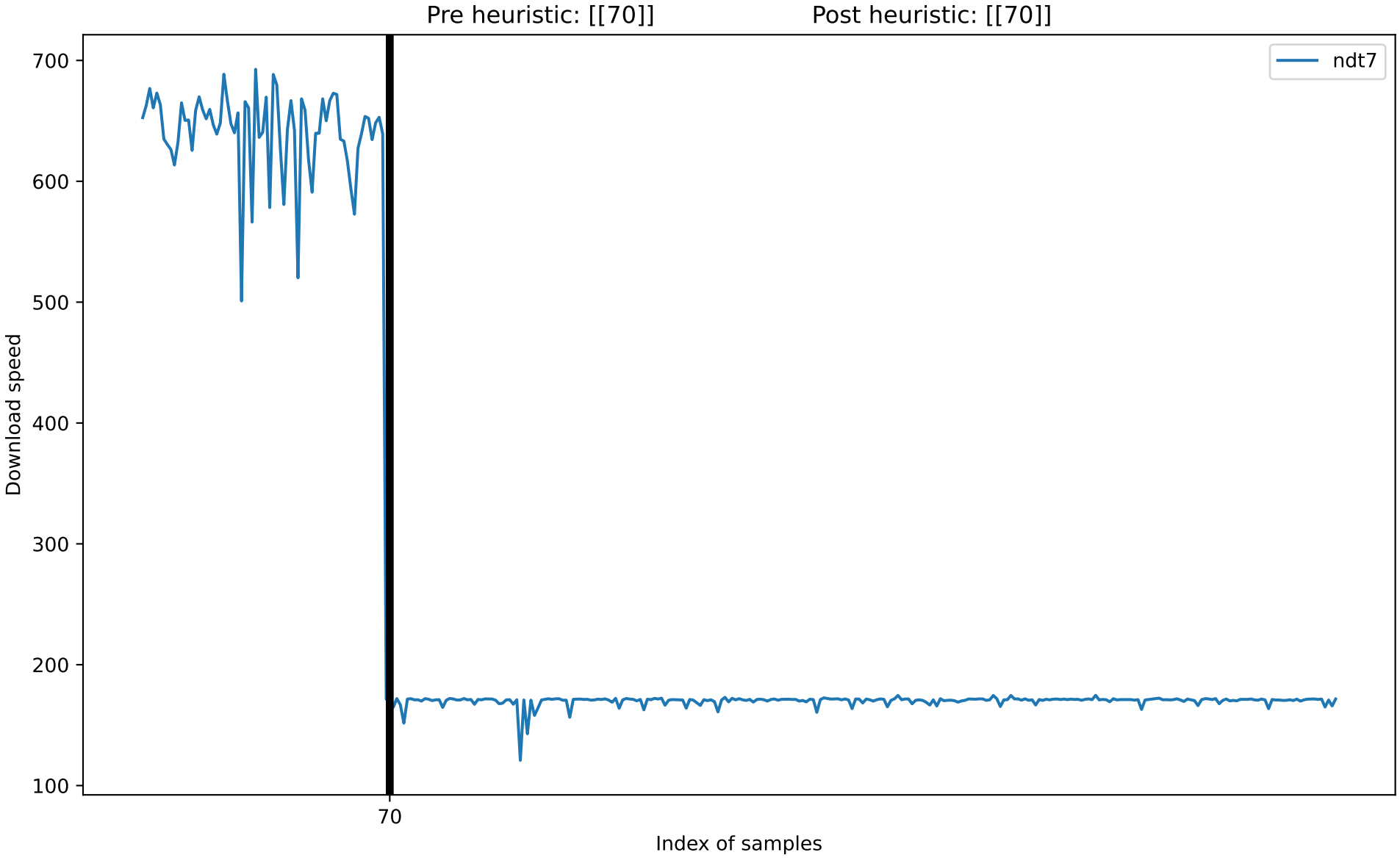

Pre heuristic: [[115, 180, 315]]
Post heuristic: [[]]
ndt7
350
300
250
200
150
100
Upload speed
Index of samples

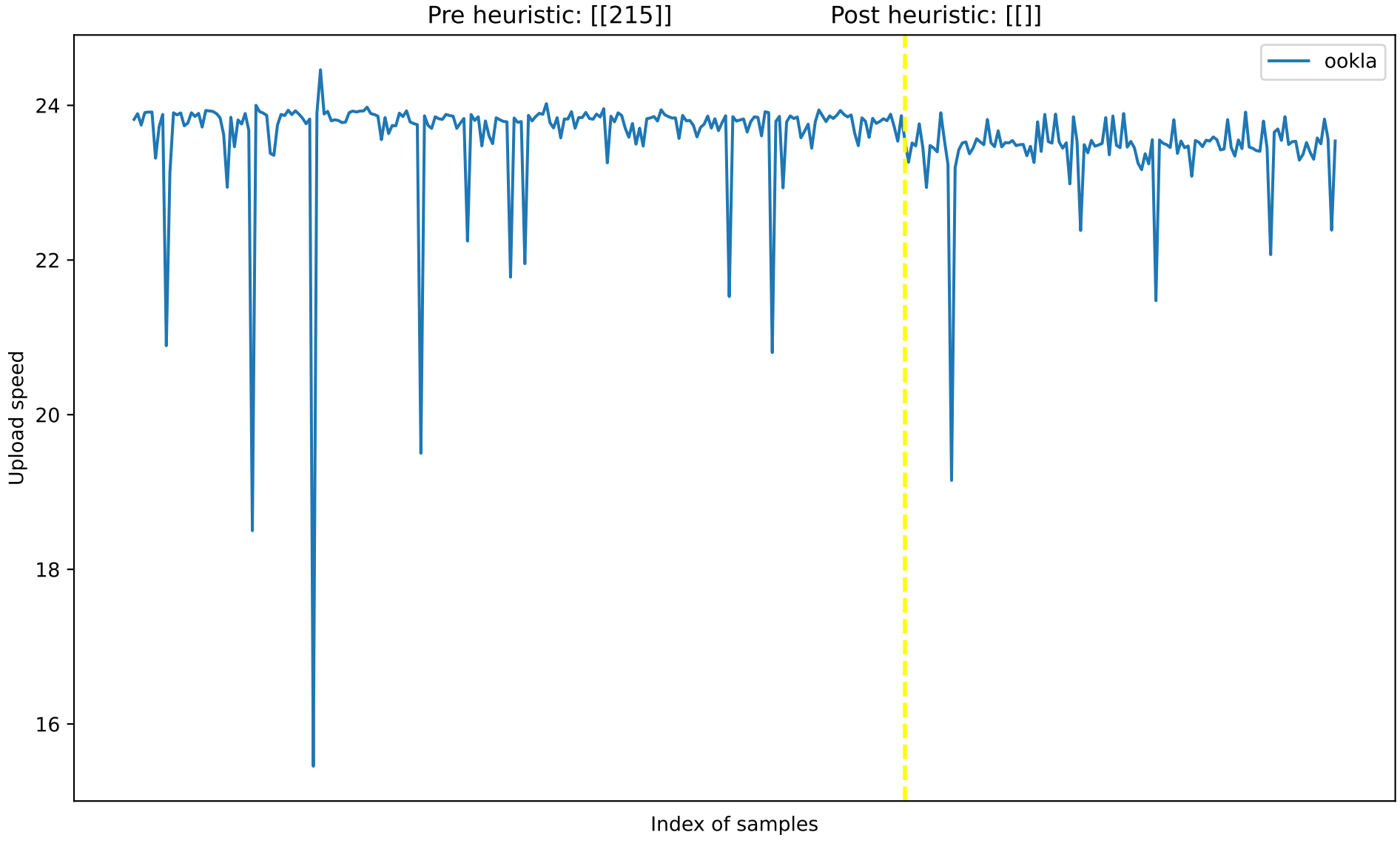

Pre heuristic: [[115, 180]]
Post heuristic: [[]]
ndt7
Download speed
375
350
325
300
275
250
225
200
175
Index of samples

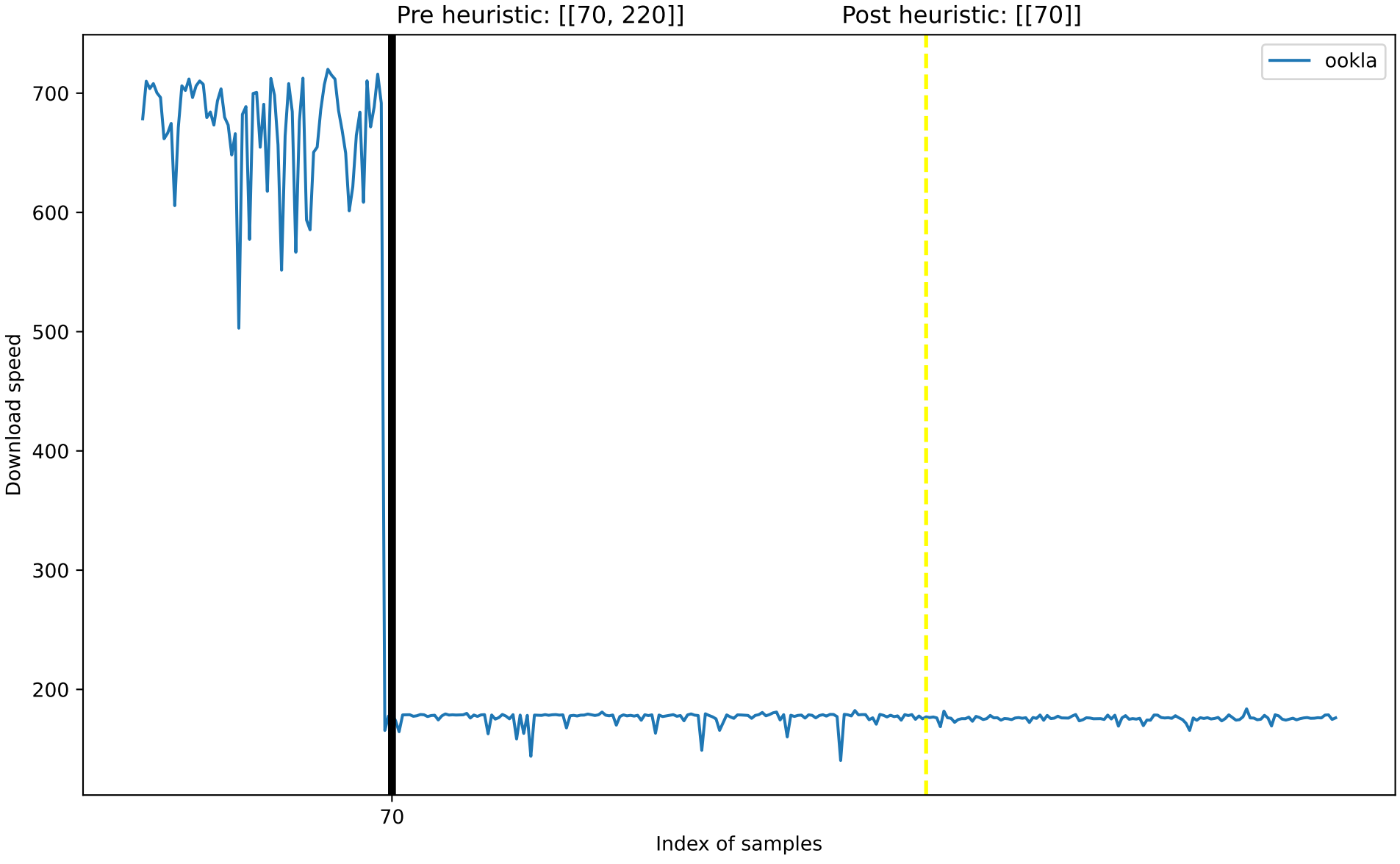

Pre heuristic: [[105, 205]]
Post heuristic: [[]]
Upload speed
375
350
325
300
275
250
225
200
ookla
Index of samples

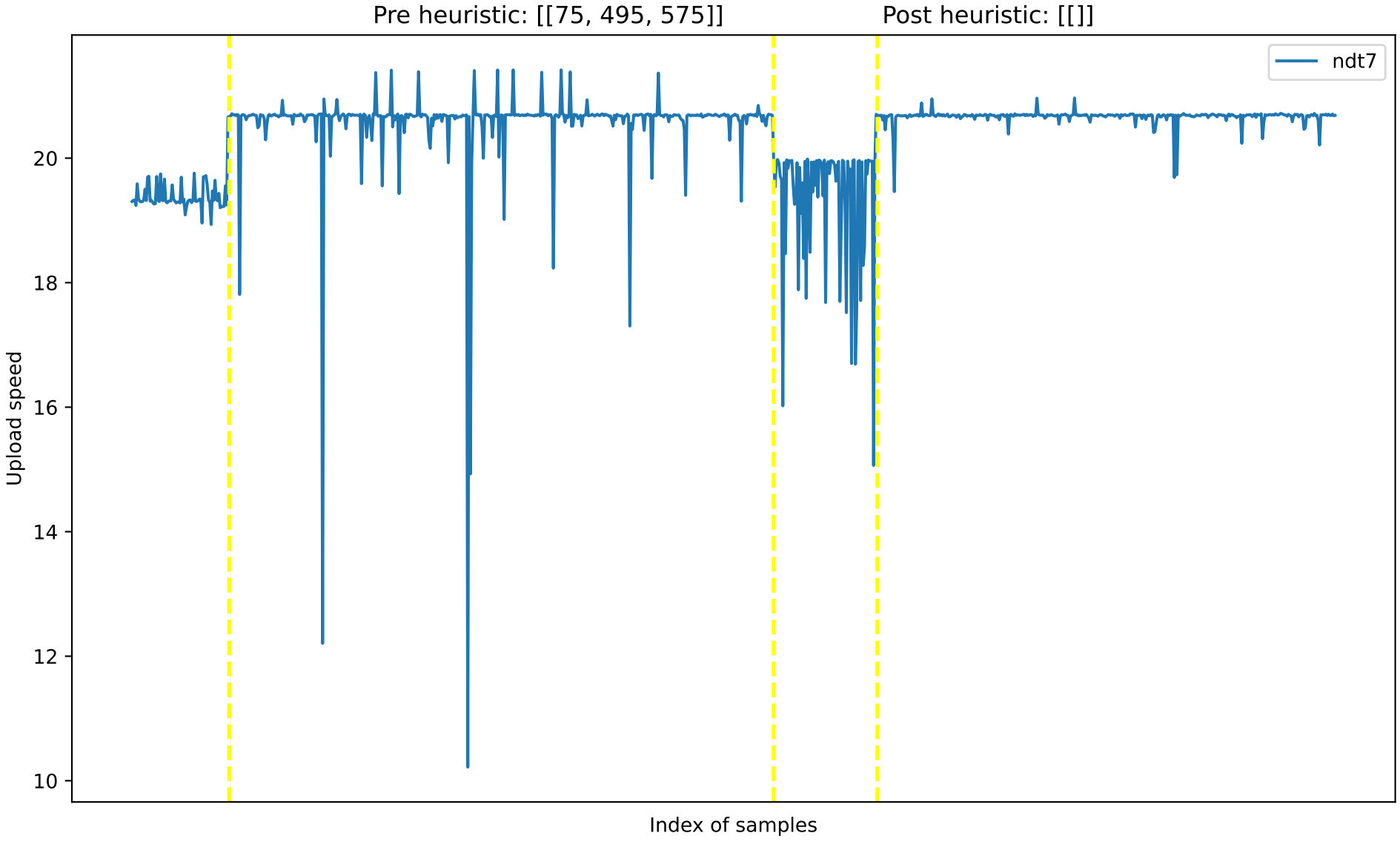

Pre heuristic: [[75]]
Post heuristic: [[]]
ndt7
700
680
660
640
620
Download speed
Index of samples

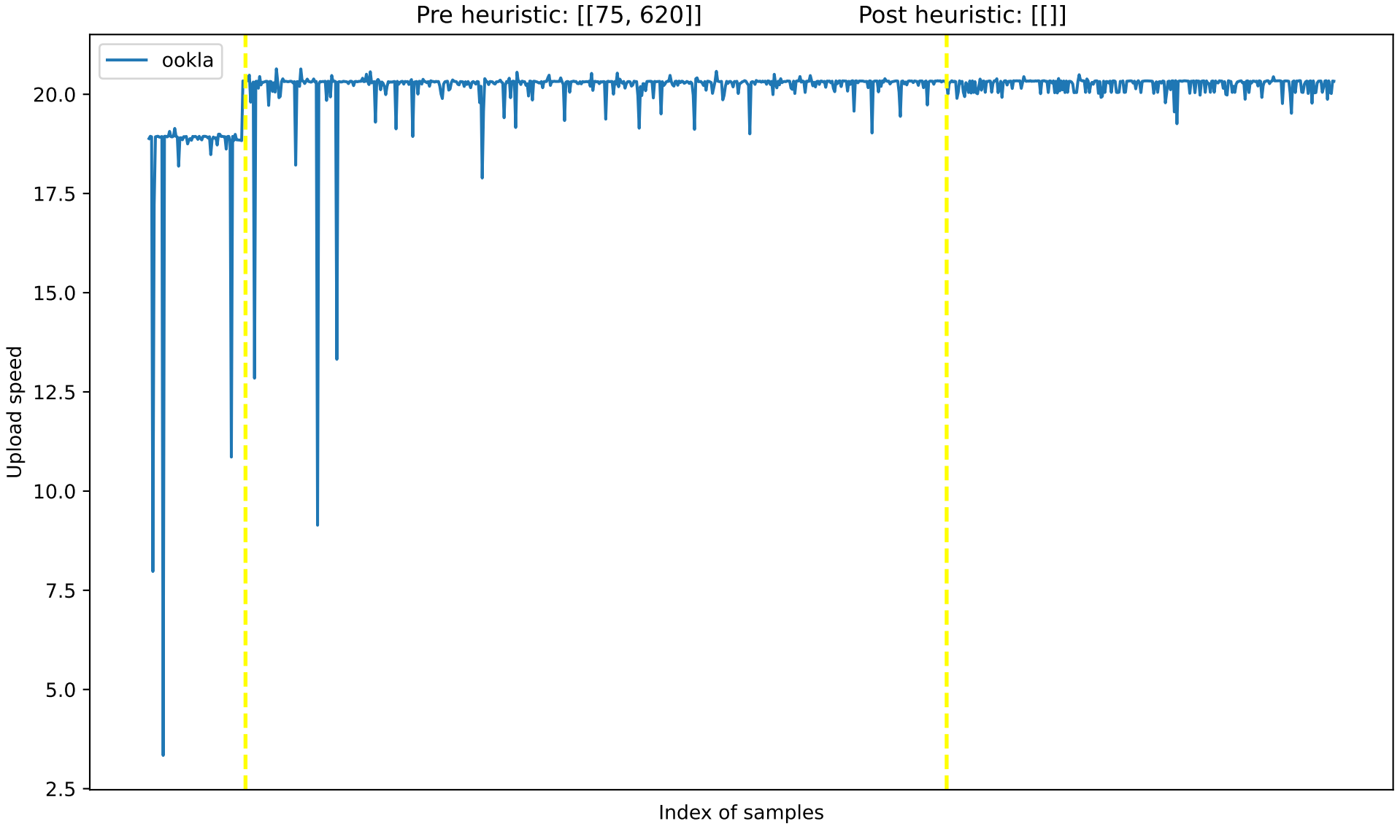

Pre heuristic: [[70]]
Post heuristic: [[]]
ookla
720
700
680
660
640
620
Download speed
Index of samples

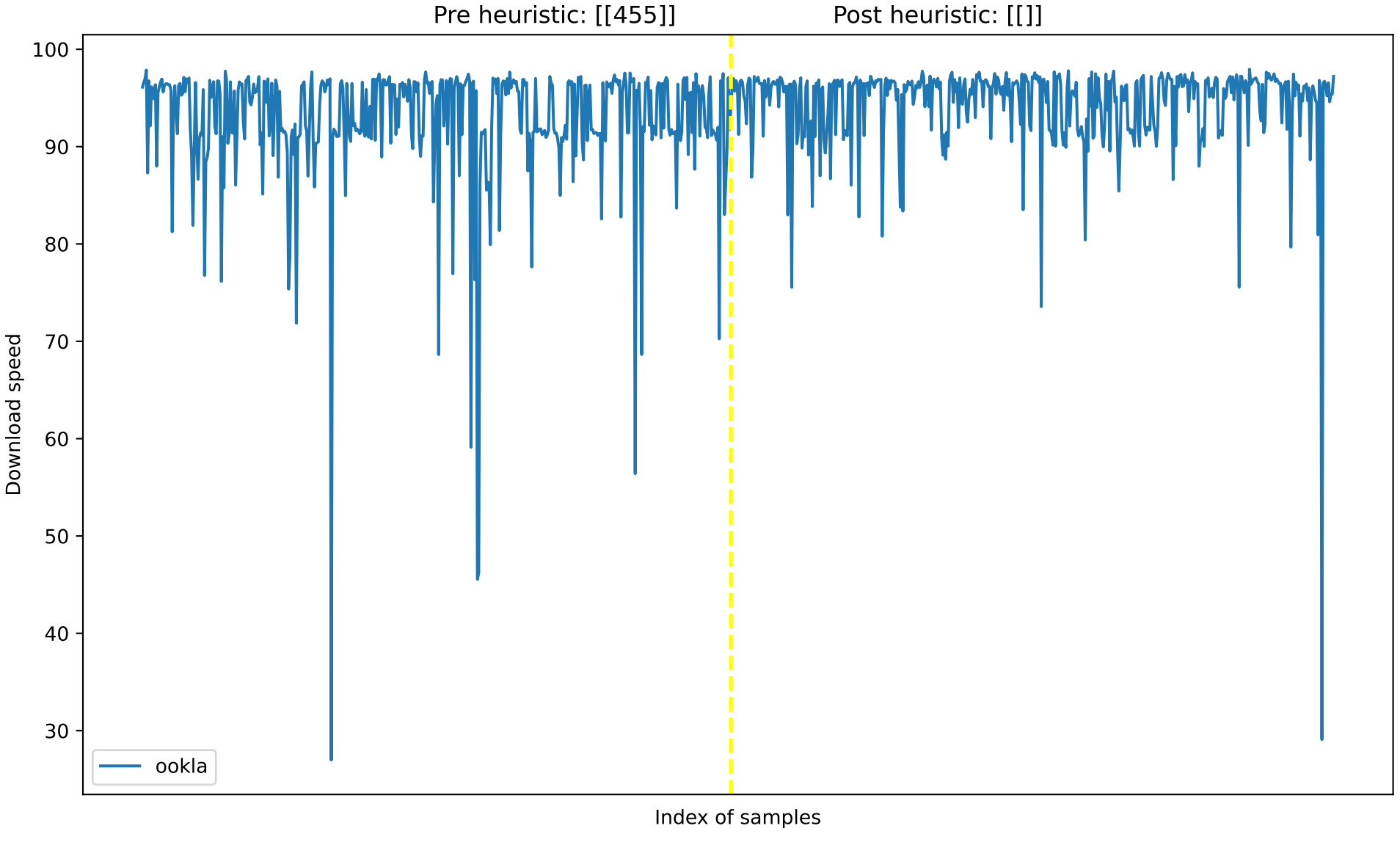

Pre heuristic: [[70]]
Post heuristic: [[70]]
ndt7
Download speed
700
600
500
400
300
200
100
70
Index of samples

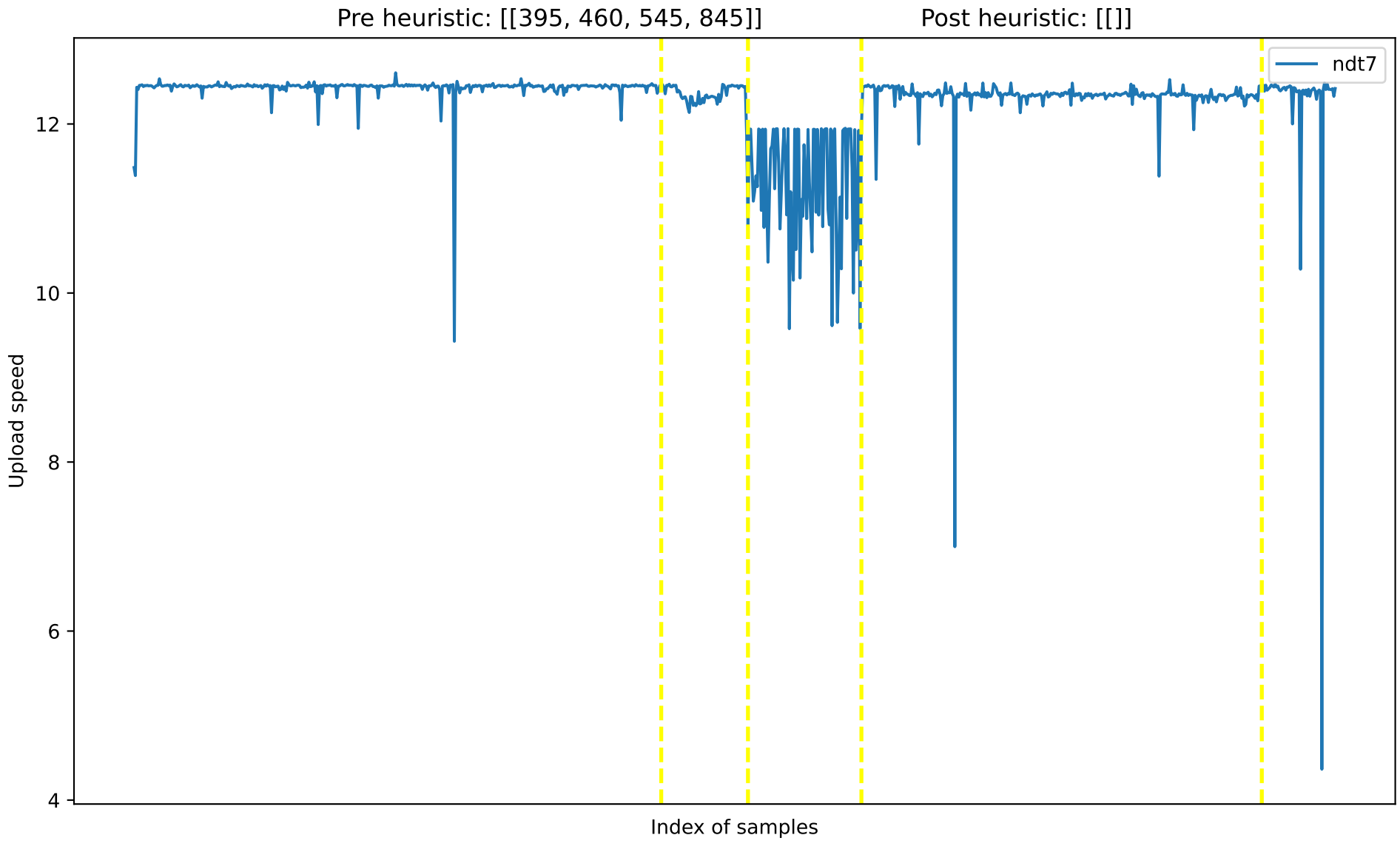

Pre heuristic: [[215]]
Post heuristic: [[]]
ookla
Upload speed
24
22
20
18
16
Index of samples

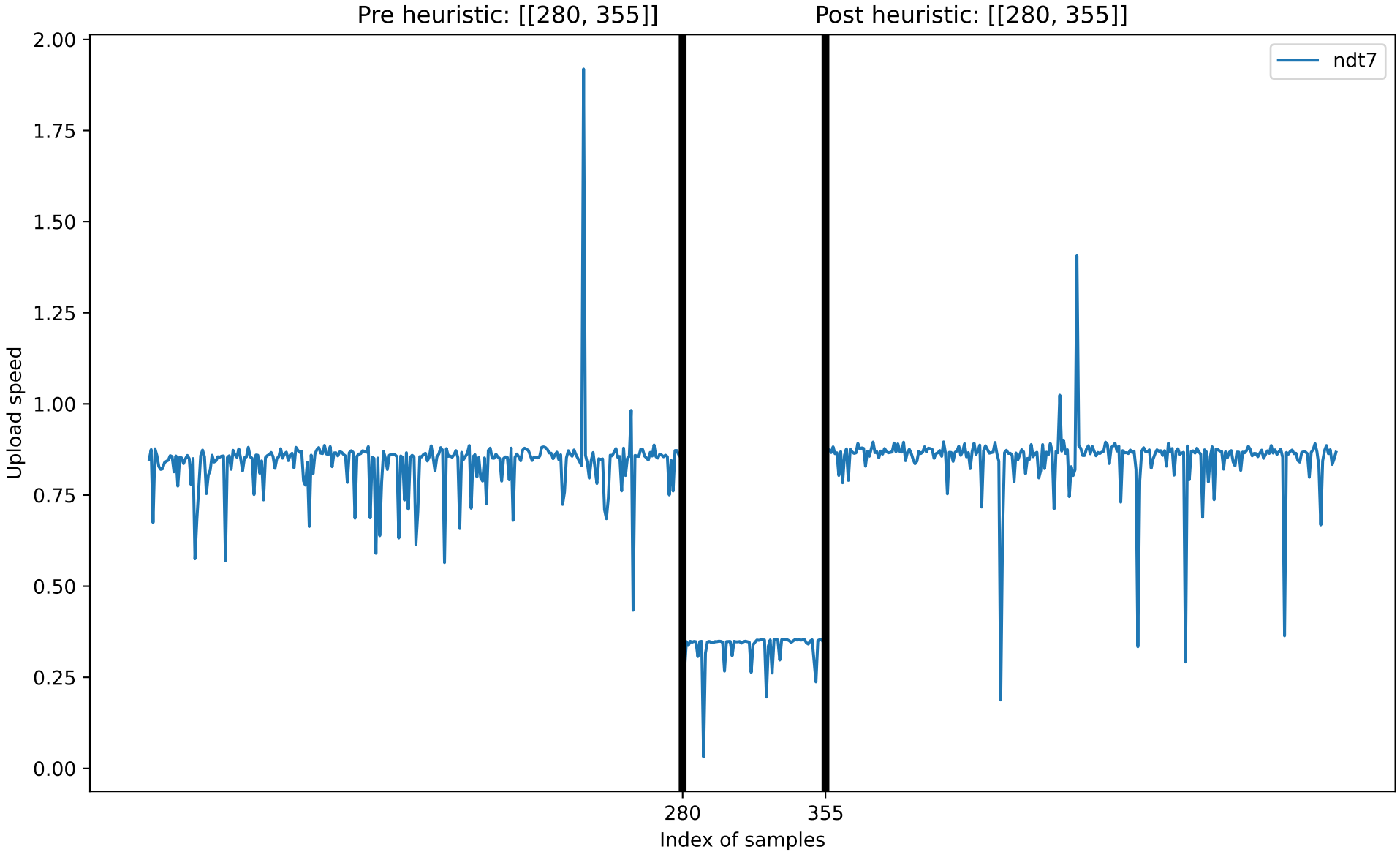

Pre heuristic: [[70, 220]]
Post heuristic: [[70]]
ookla
Download speed
700
600
500
400
300
200
70
Index of samples

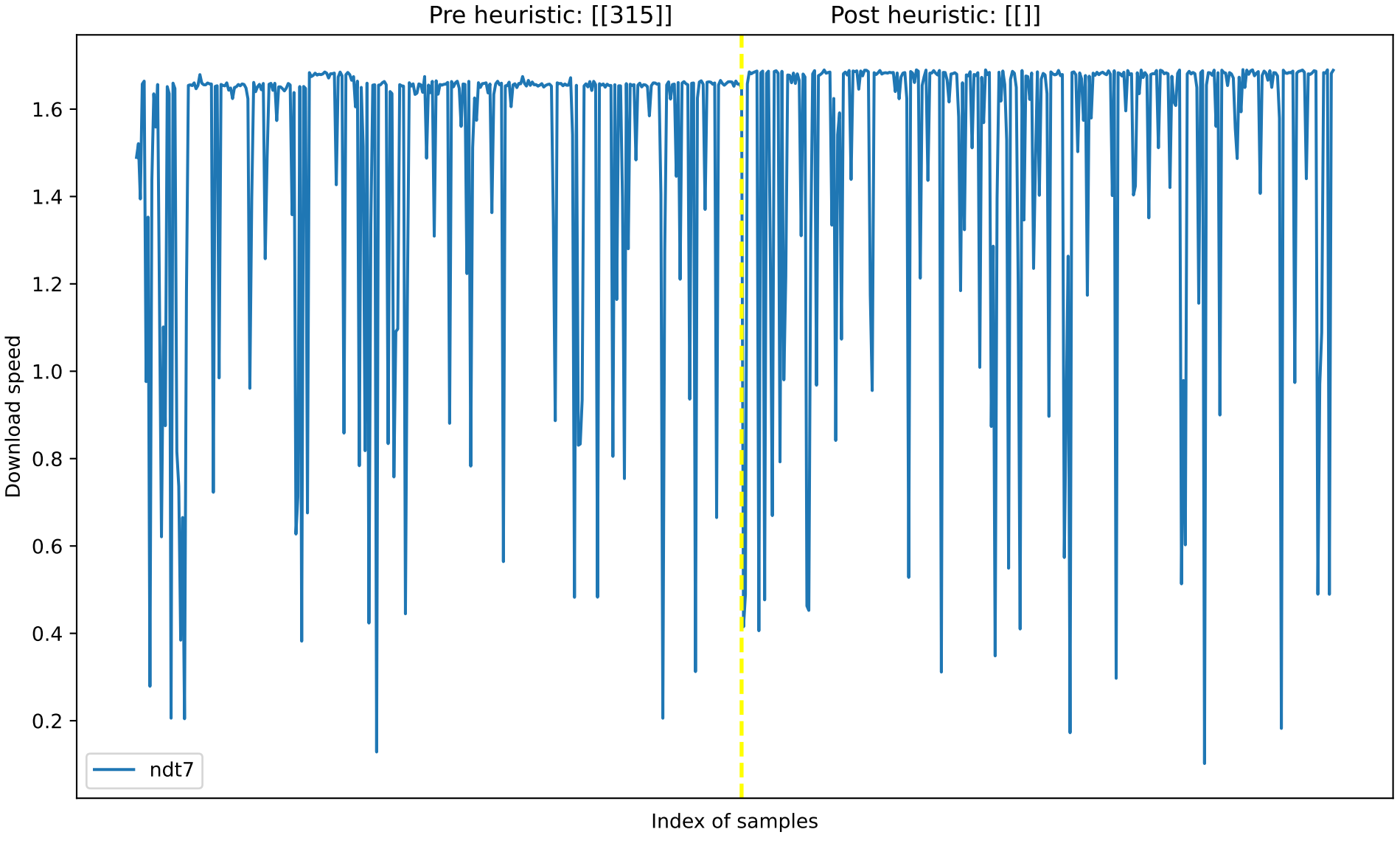

Pre heuristic: [[75, 495, 575]]
Post heuristic: [[]]
ndt7
Upload speed
20
18
16
14
12
10
Index of samples

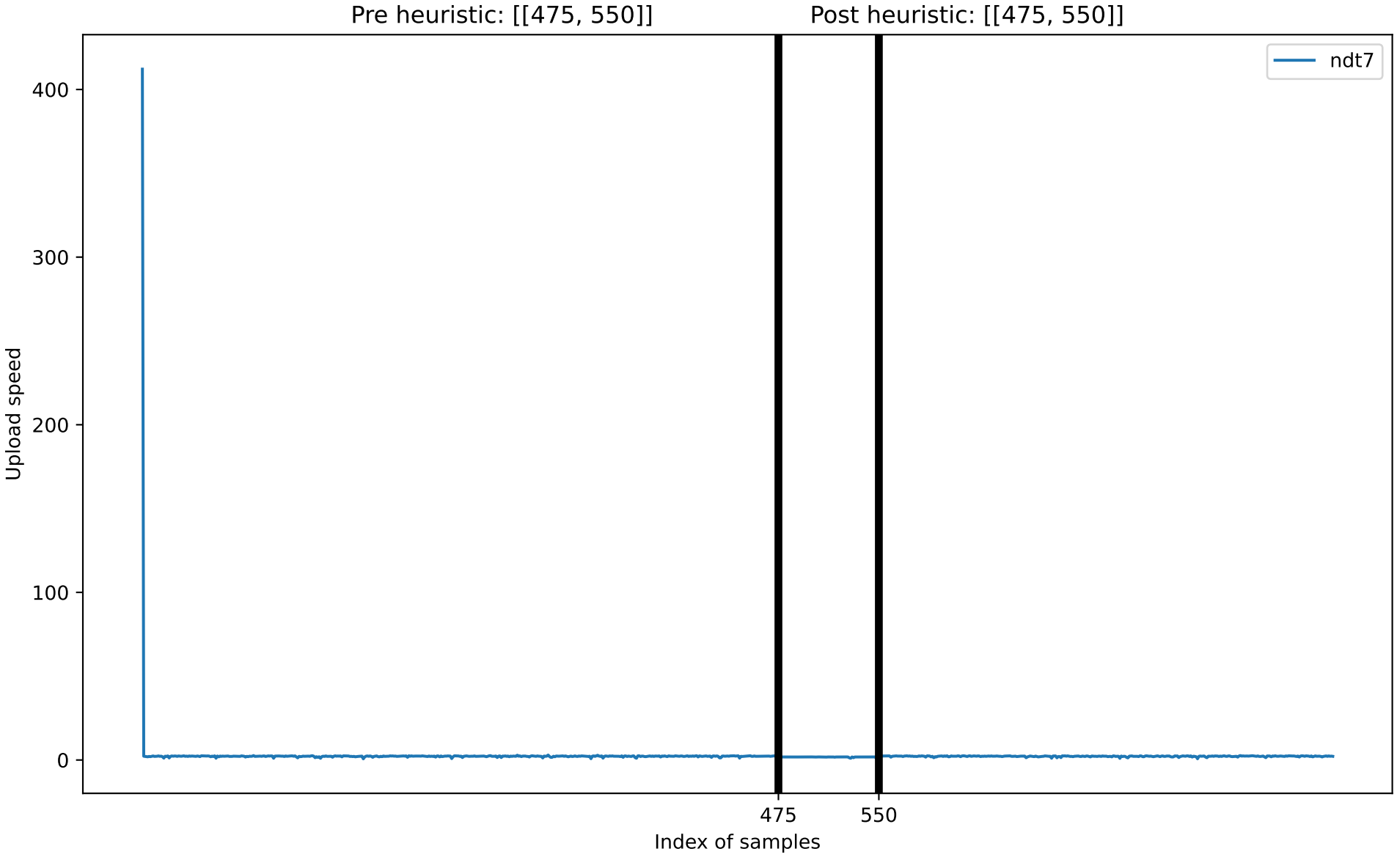

Pre heuristic: [[75, 620]]
Post heuristic: [[]]
ookla
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
Upload speed
Index of samples

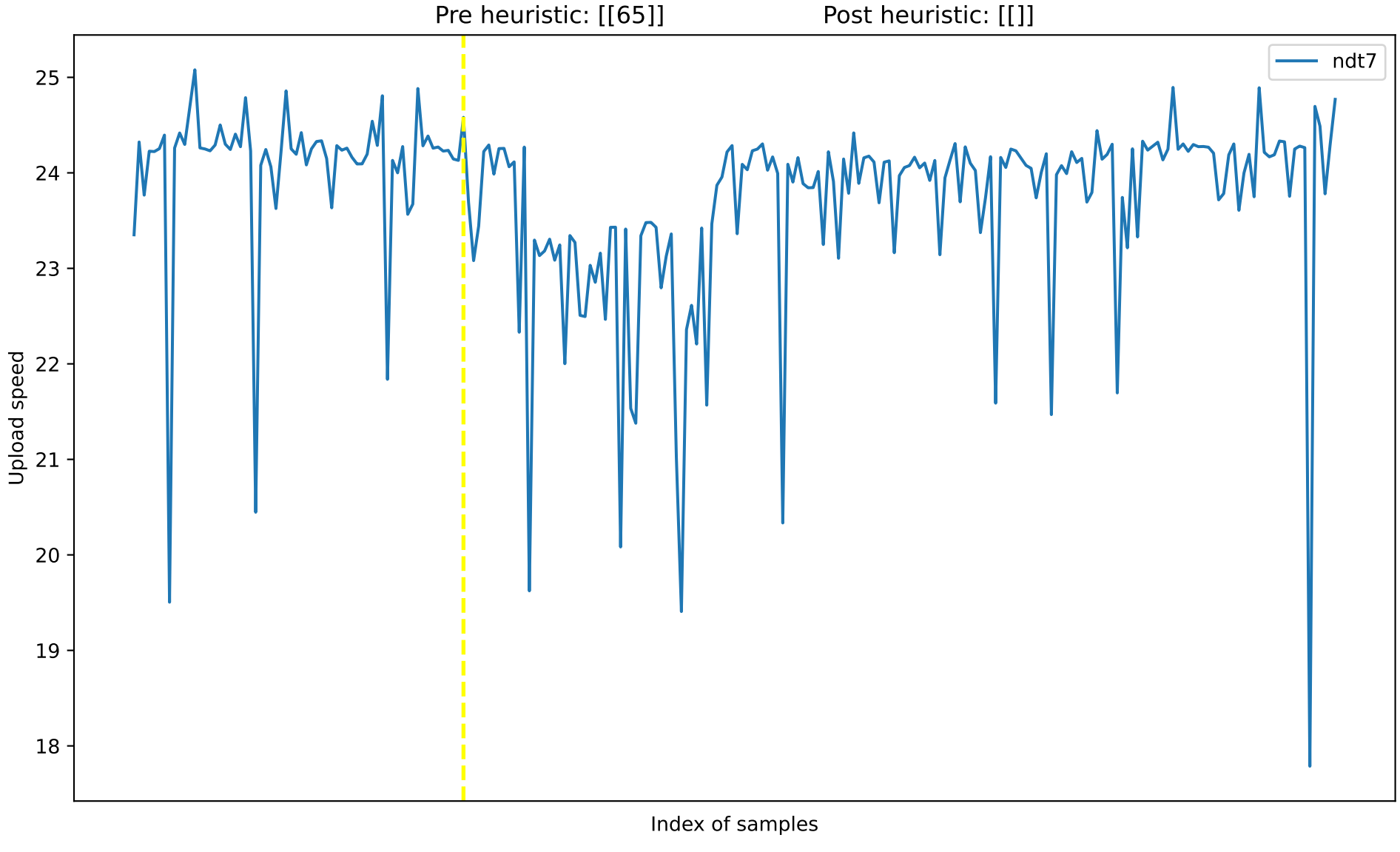

Pre heuristic: [[455]]
Post heuristic: [[]]
Download speed
Index of samples
ookla
100
90
80
70
60
50
40
30

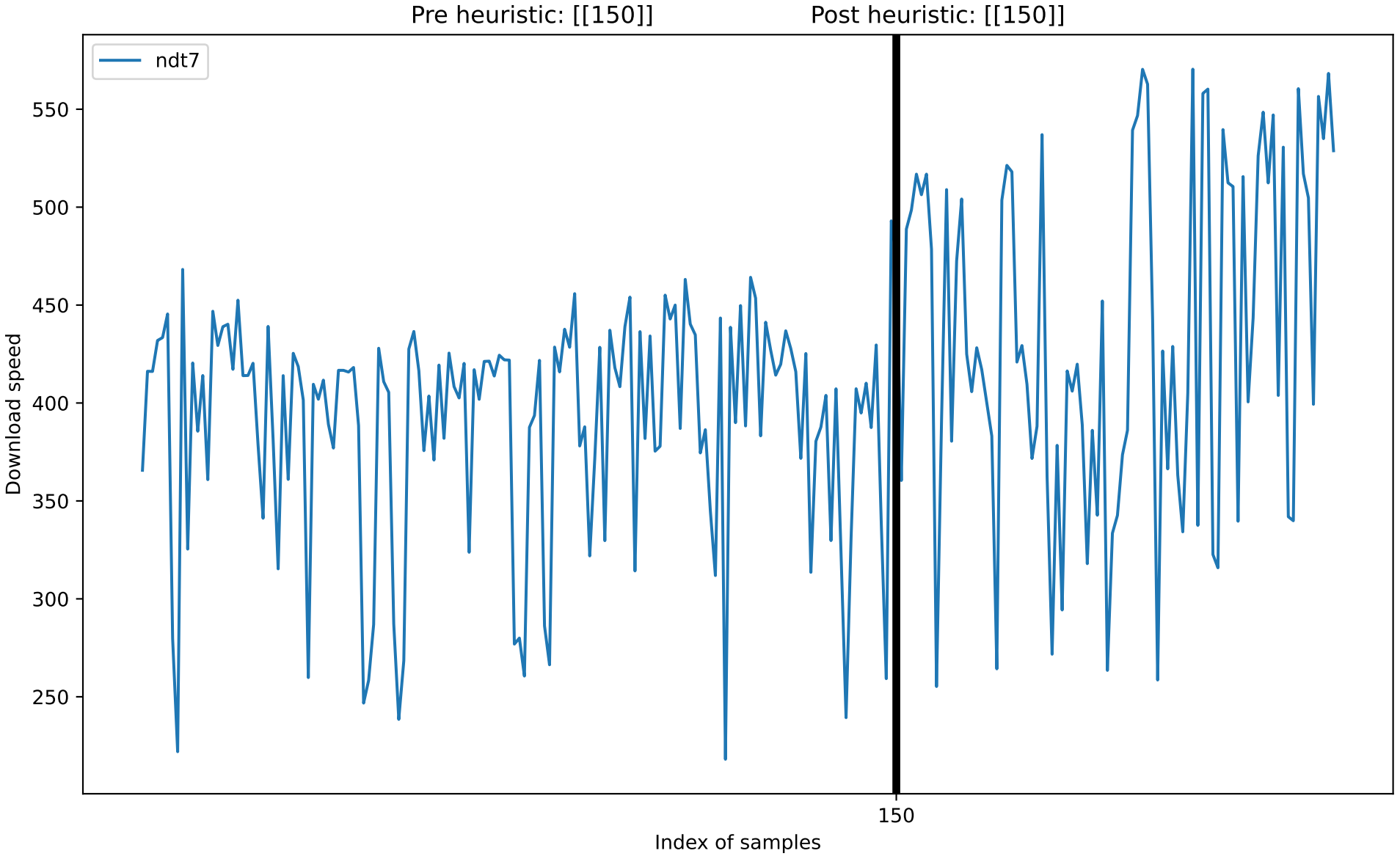

Pre heuristic: [[395, 460, 545, 845]]
Post heuristic: [[]]
ndt7
Upload speed
Index of samples
12
10
8
6
4

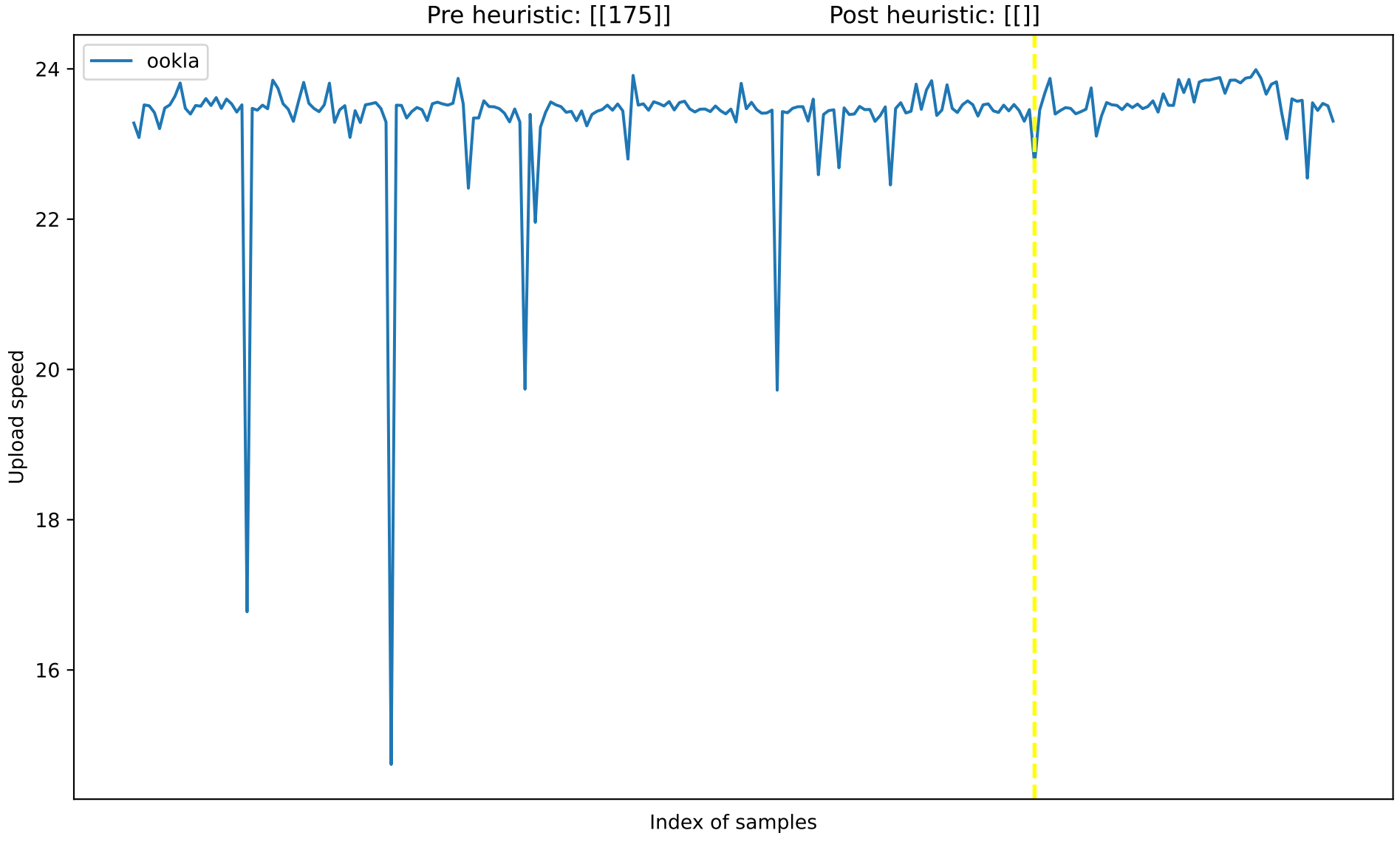

Pre heuristic: [[280, 355]]
Post heuristic: [[280, 355]]
ndt7
Upload speed
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
280
355
Index of samples

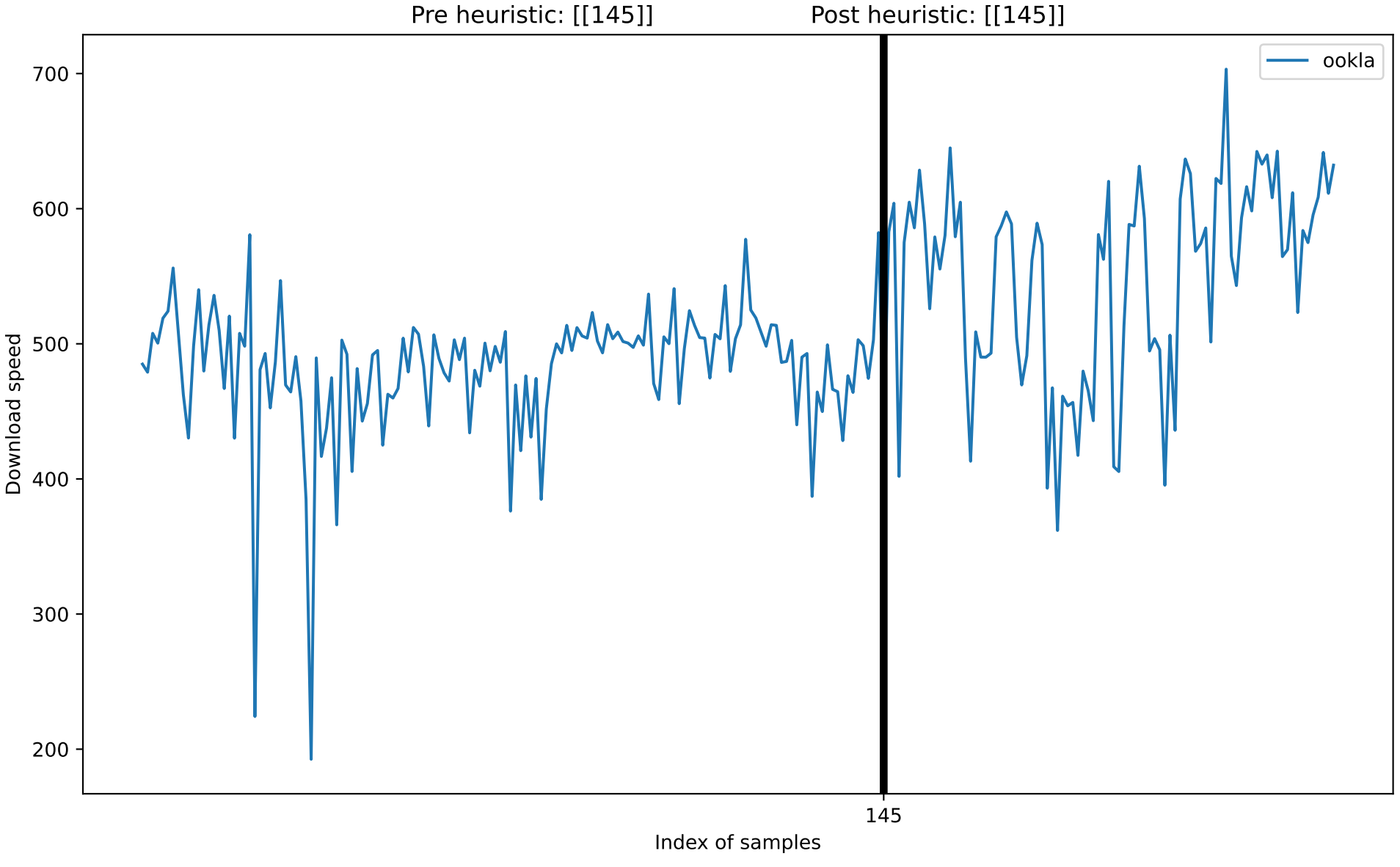

Pre heuristic: [[315]]
Post heuristic: [[]]
Download speed
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
ndt7
Index of samples

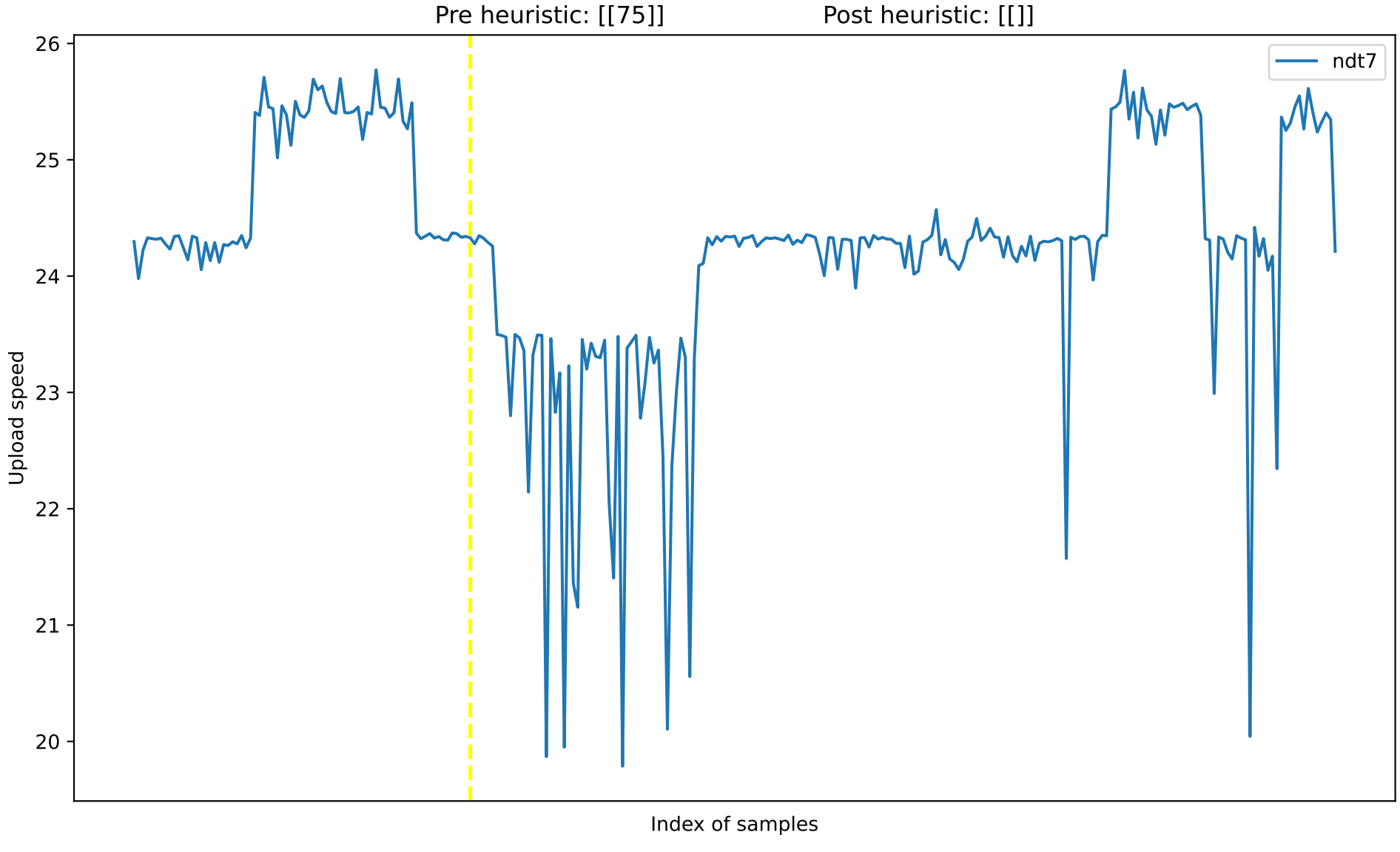

Pre heuristic: [[475, 550]]
Post heuristic: [[475, 550]]
ndt7
400
300
200
100
0
Upload speed
475
550
Index of samples

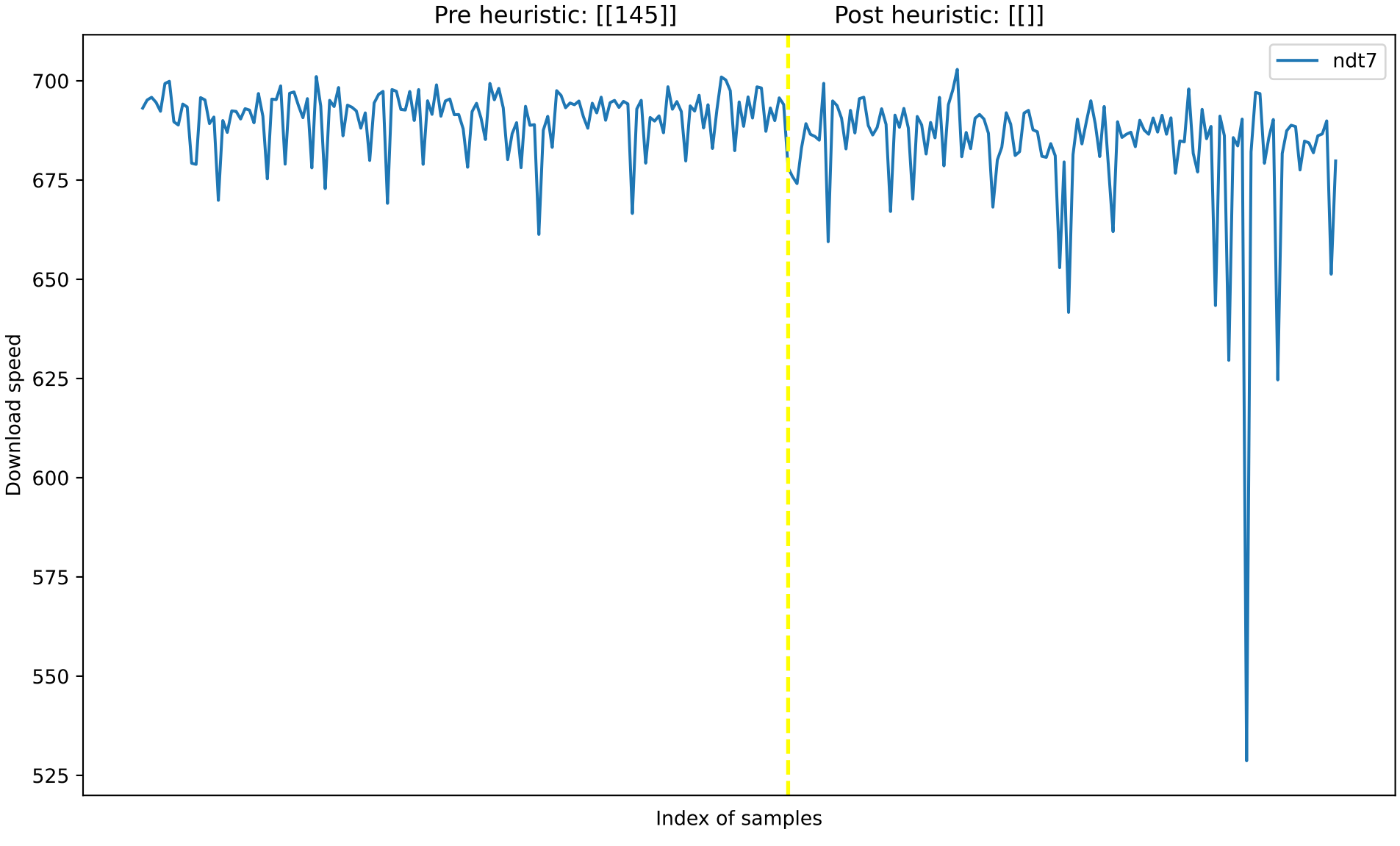

Pre heuristic: [[65]]
Post heuristic: [[]]
ndt7
Upload speed
Index of samples
25
24
23
22
21
20
19
18

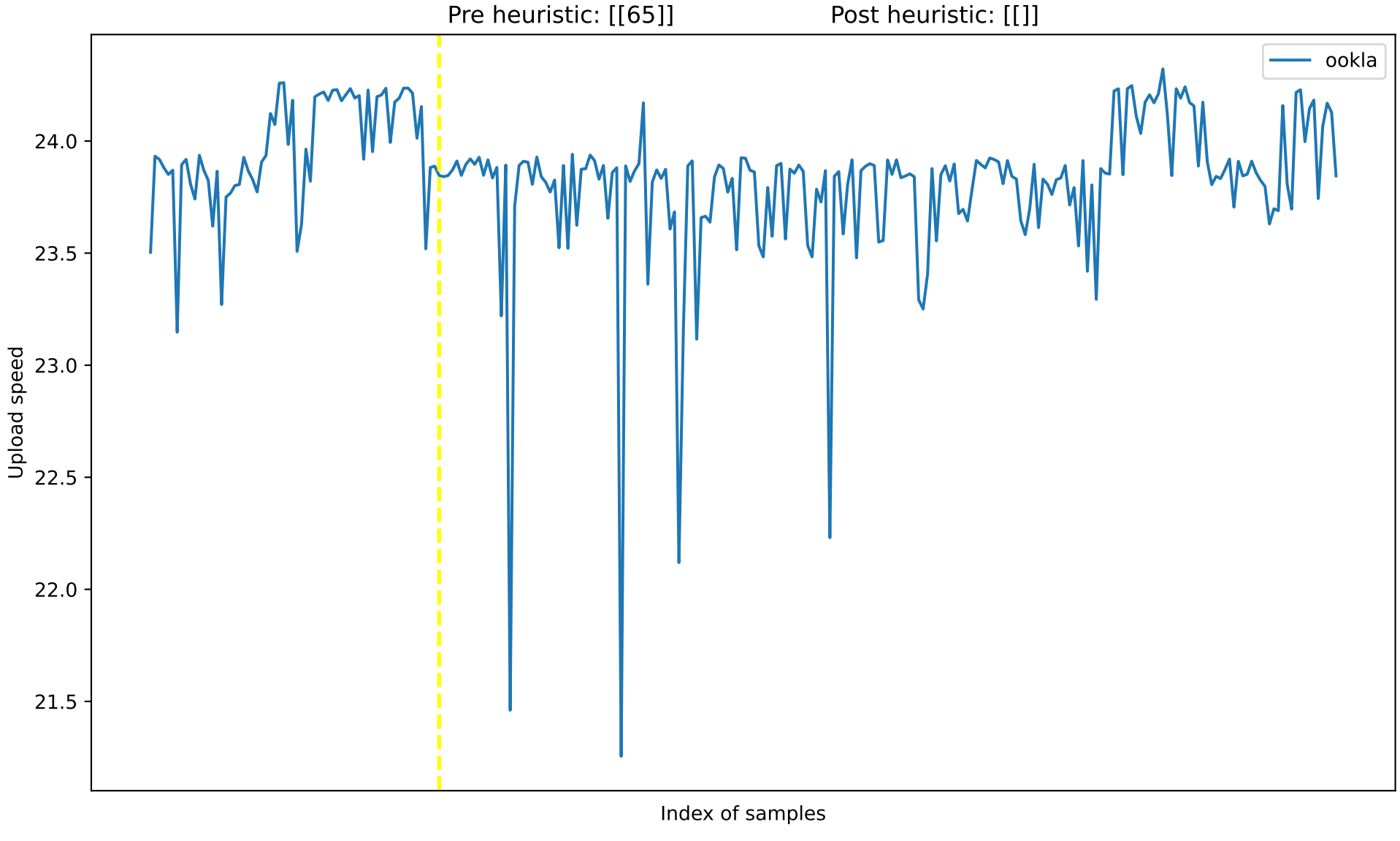

Pre heuristic: [[150]]
Post heuristic: [[150]]
ndt7
Download speed
550
500
450
400
350
300
250
150
Index of samples

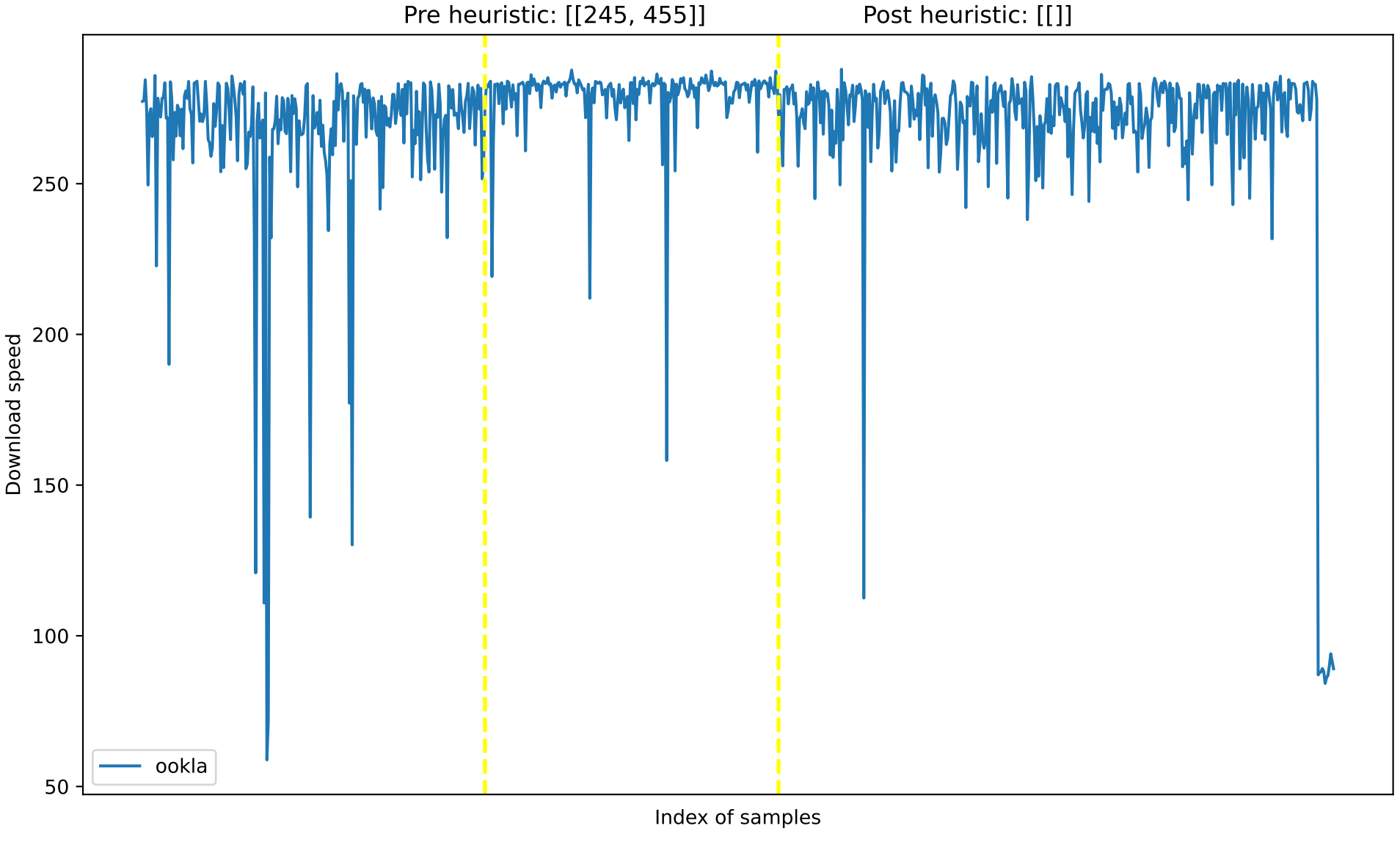

Pre heuristic: [[175]]
Post heuristic: [[]]
ookla
24
22
20
18
16
Upload speed
Index of samples

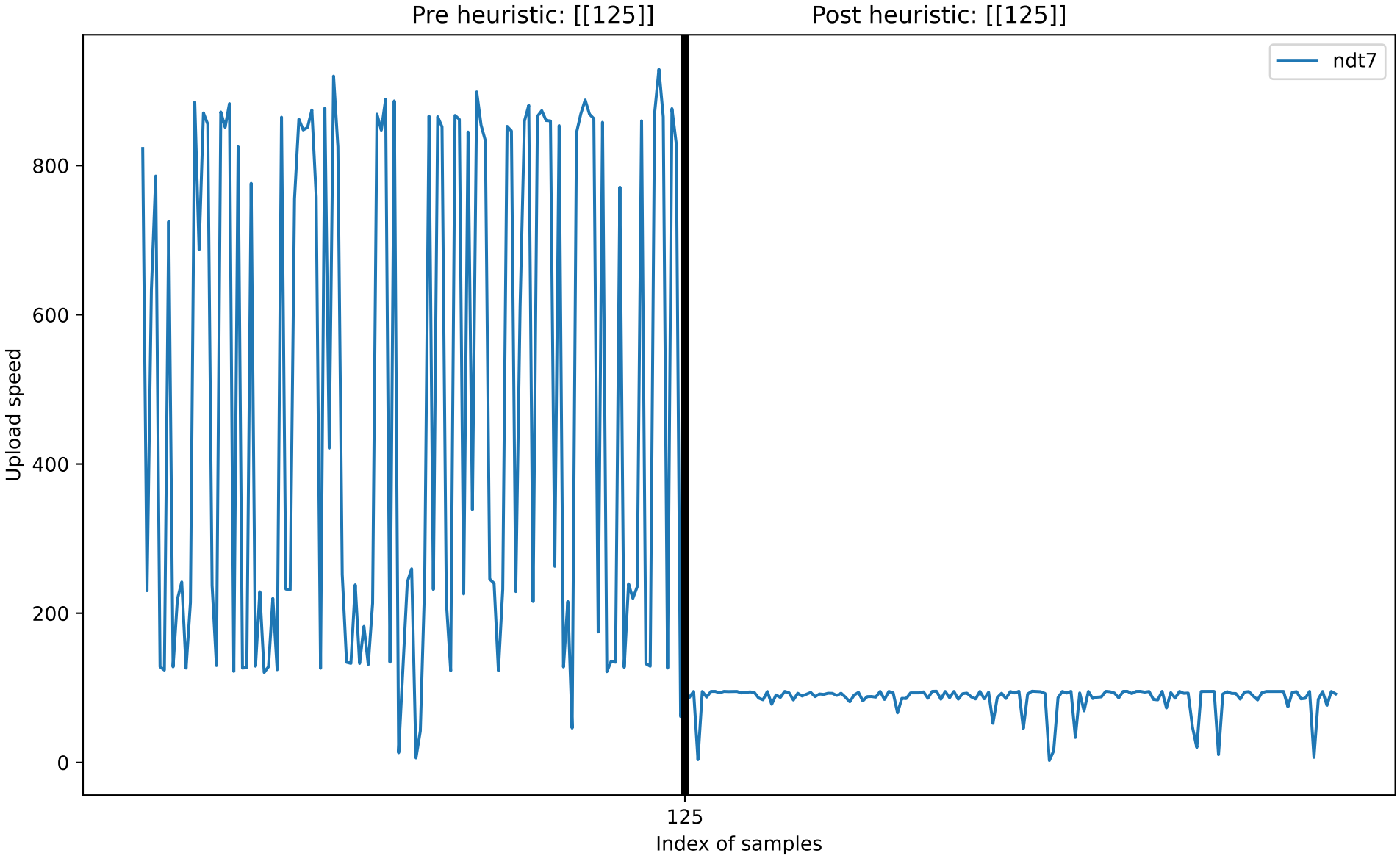

Pre heuristic: [[145]]
Post heuristic: [[145]]
ookla
700
600
500
400
300
200
Download speed
145
Index of samples

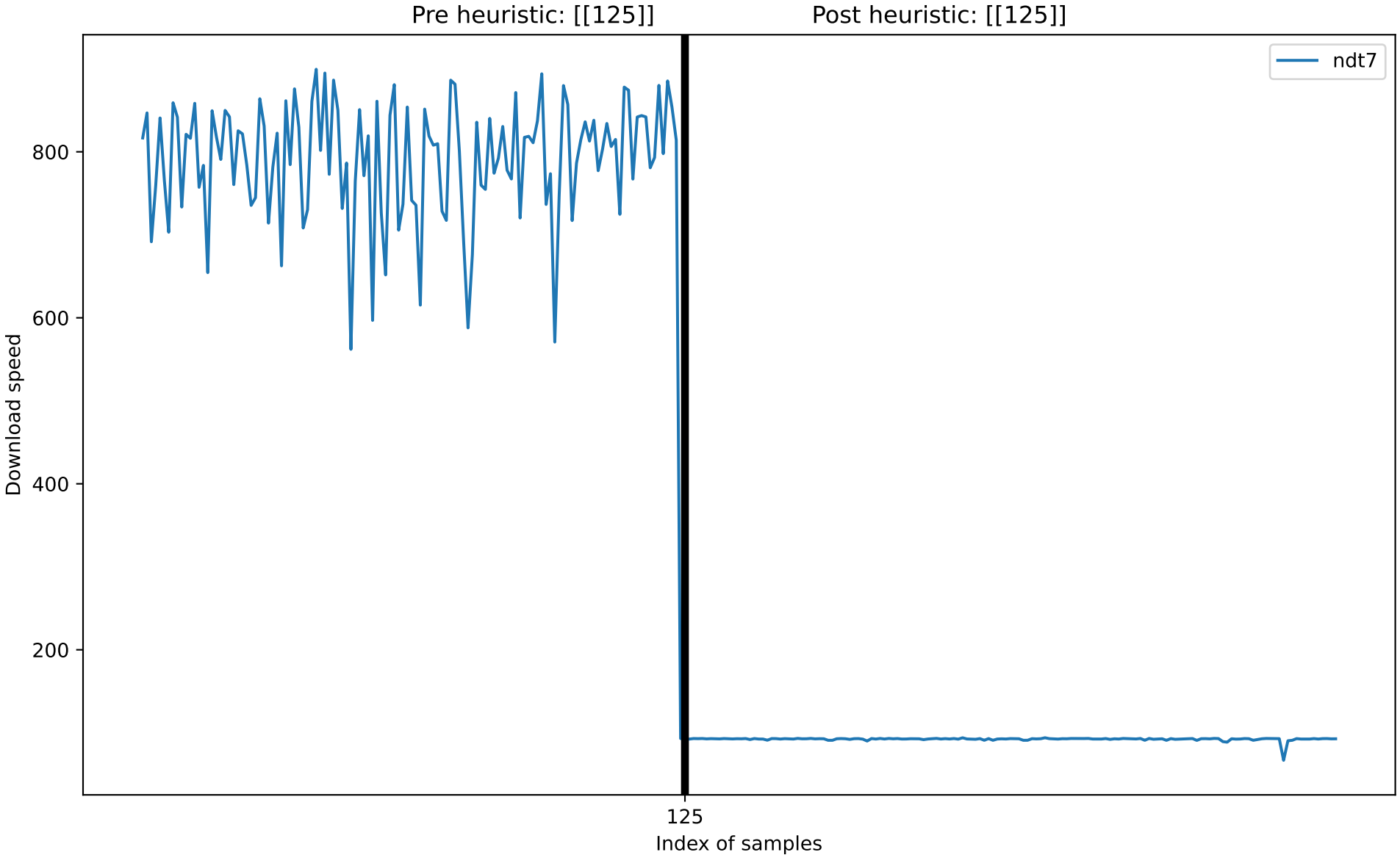

Pre heuristic: [[75]]
Post heuristic: [[]]
ndt7
Upload speed
Index of samples
26
25
24
23
22
21
20

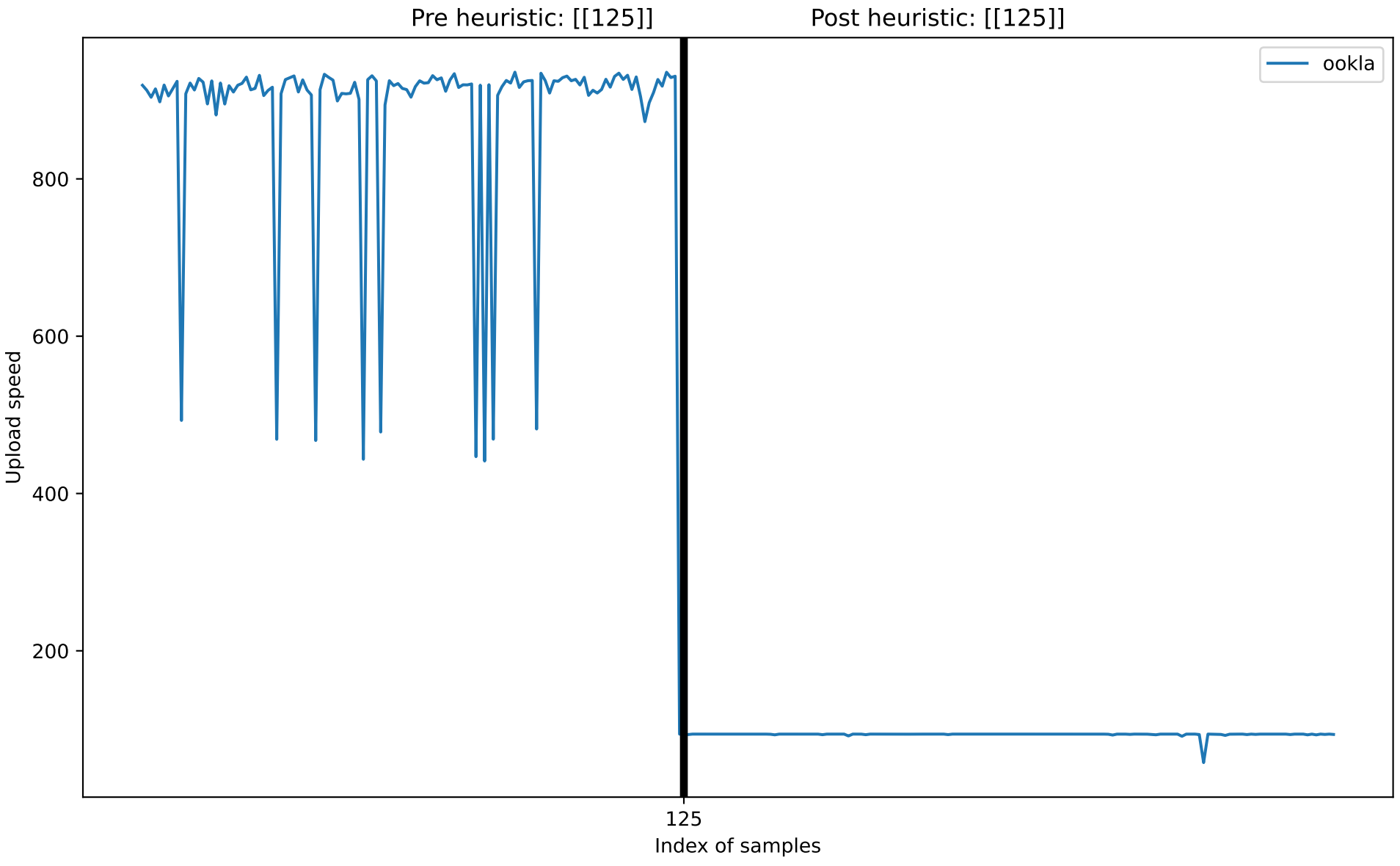

Pre heuristic: [[145]]
Post heuristic: [[]]
ndt7
700
675
650
625
600
575
550
525
Download speed
Index of samples

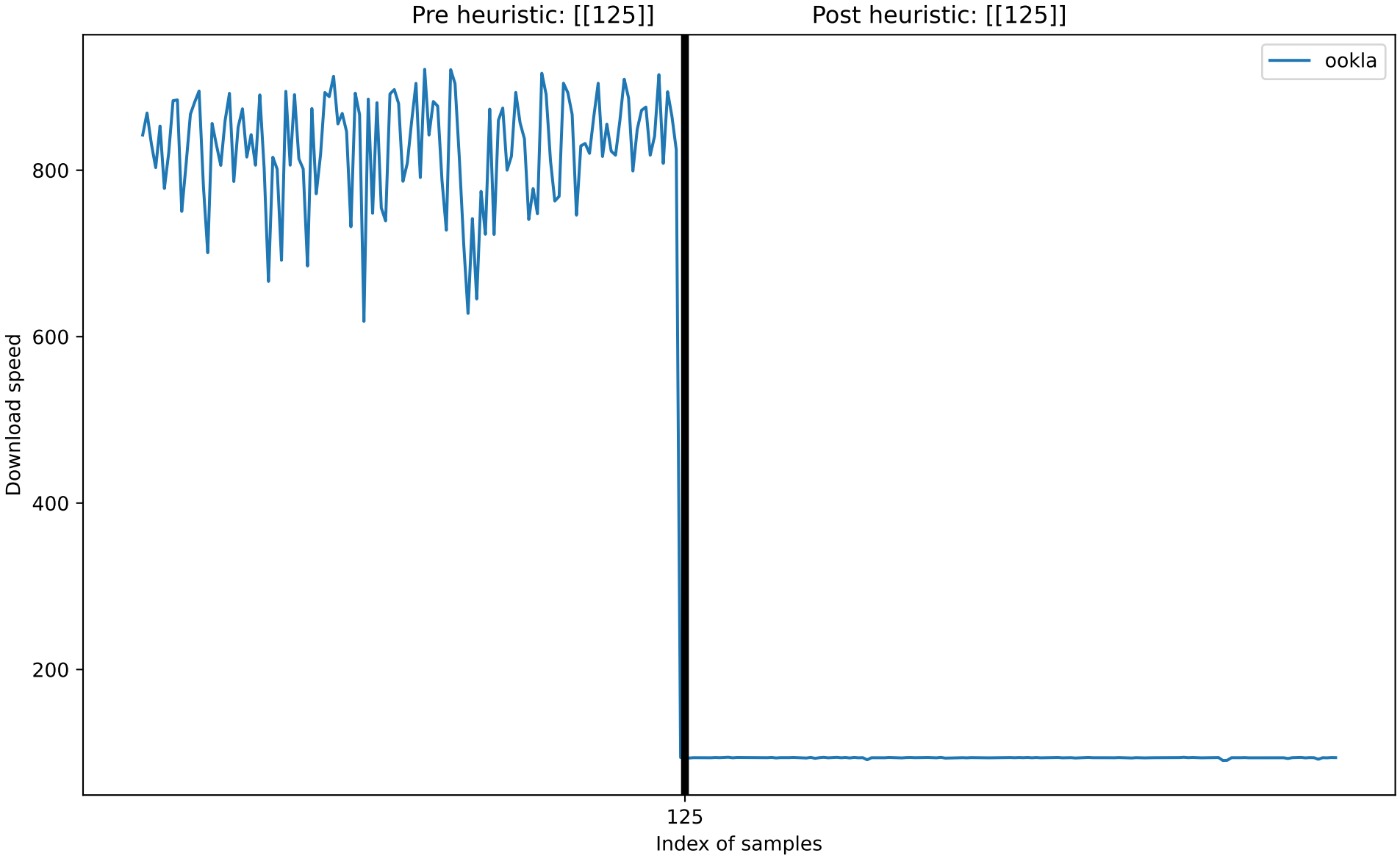

Pre heuristic: [[65]]
Post heuristic: [[]]
ookla
Upload speed
24.0
23.5
23.0
22.5
22.0
21.5
Index of samples

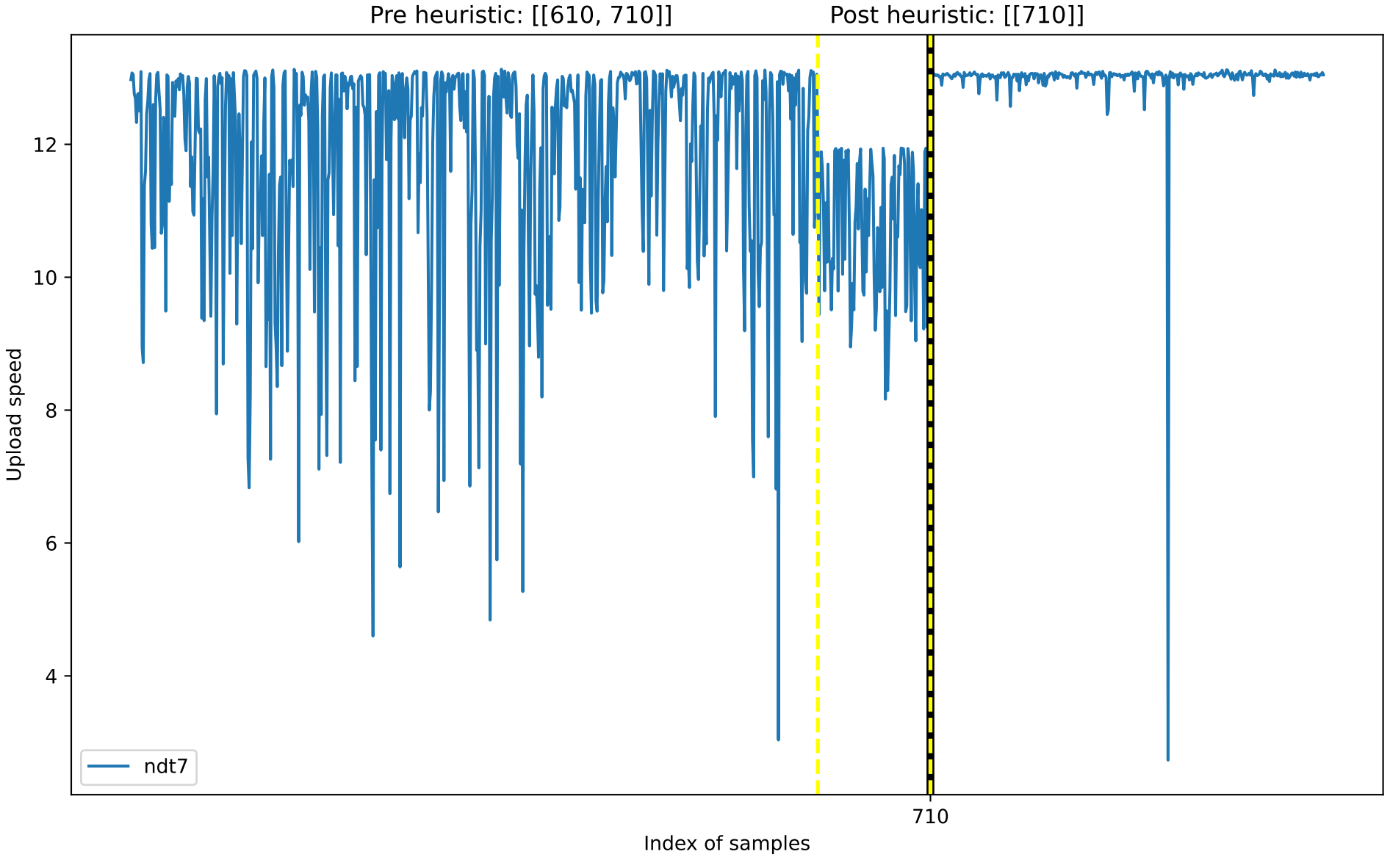

Pre heuristic: [[245, 455]]
Post heuristic: [[]]
Download speed
250
200
150
100
50
ookla
Index of samples

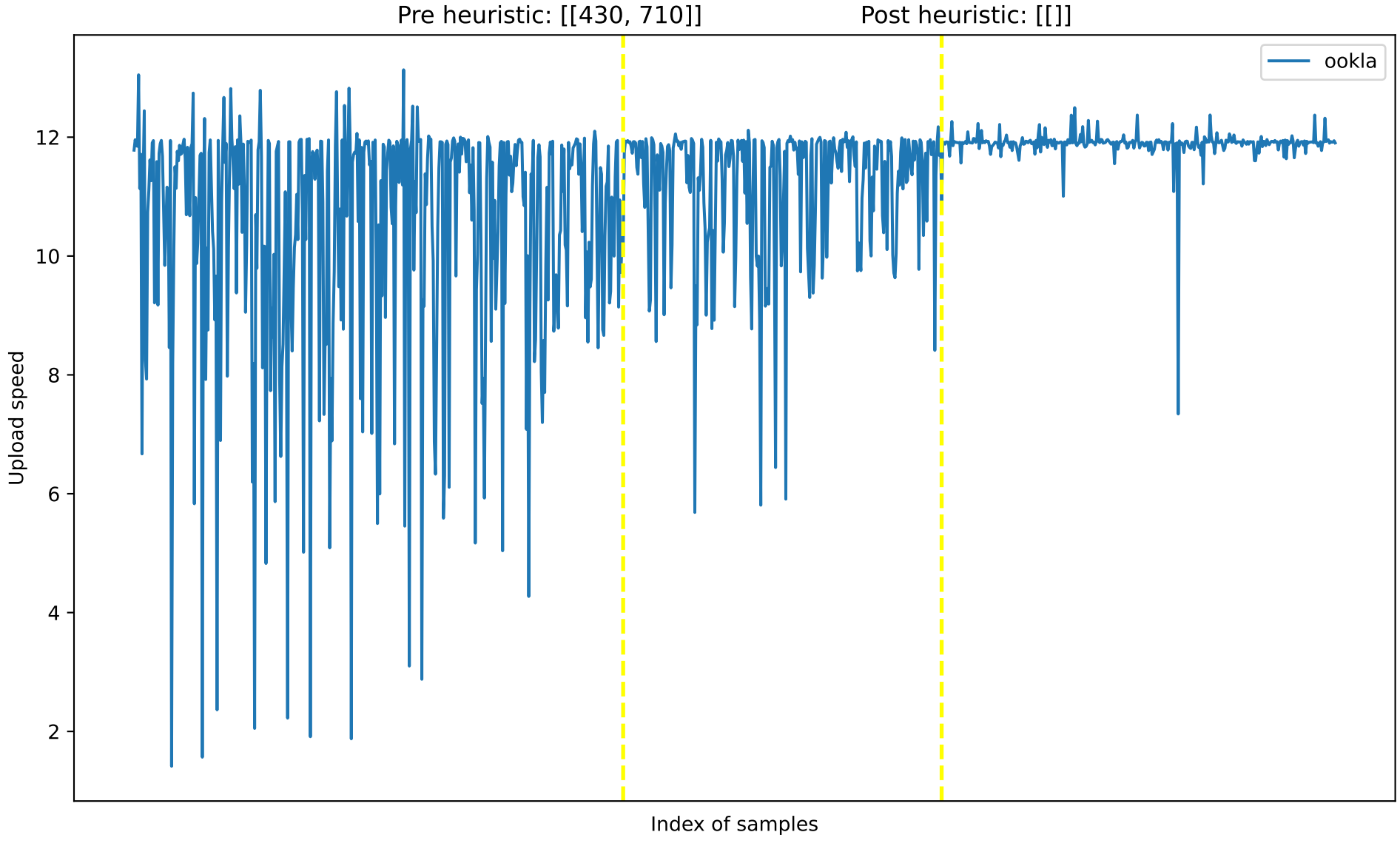

Pre heuristic: [[125]]
Post heuristic: [[125]]
ndt7
Upload speed
800
600
400
200
0
125
Index of samples

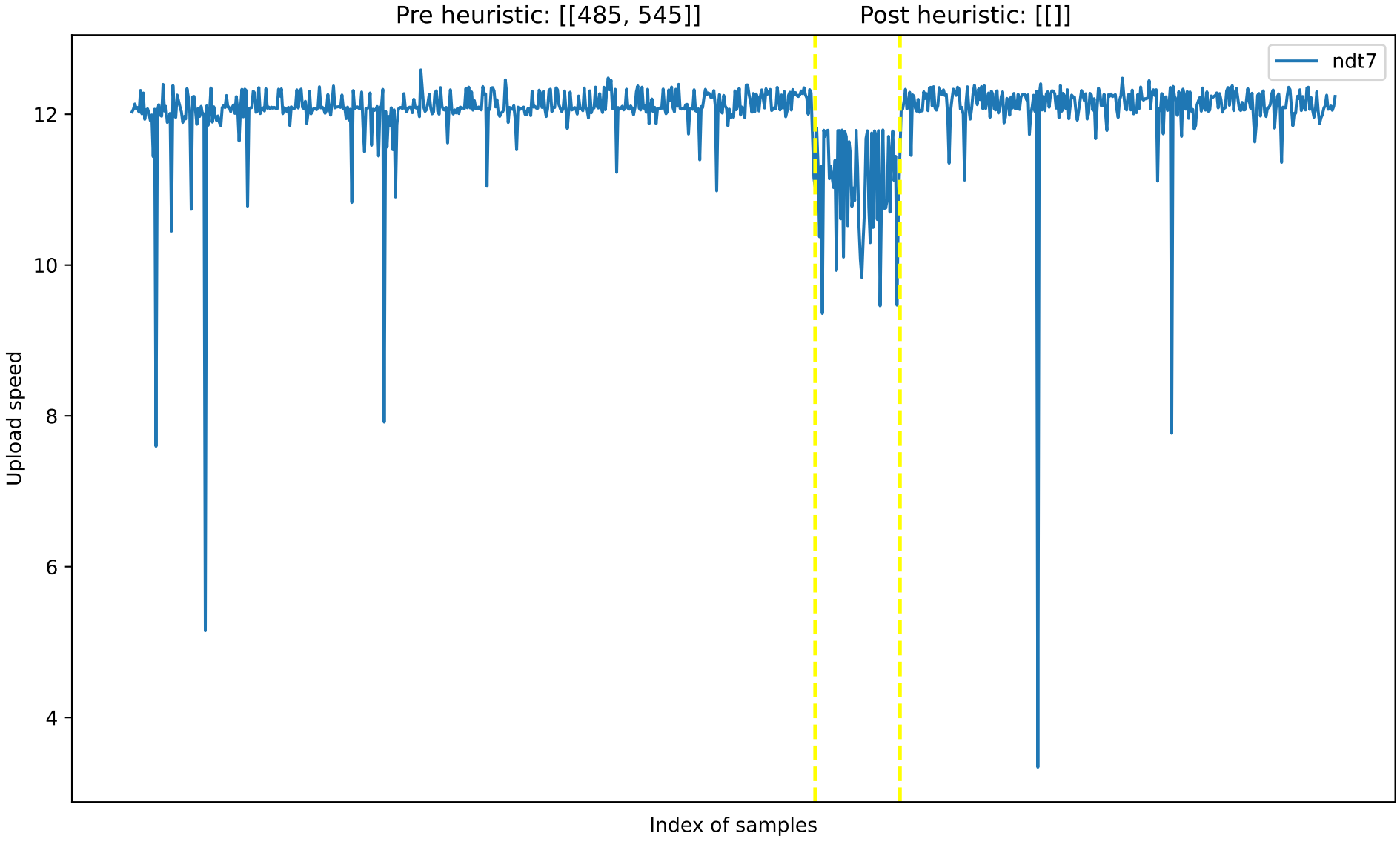

Pre heuristic: [[125]]
Post heuristic: [[125]]
ndt7
800
600
400
200
Download speed
125
Index of samples

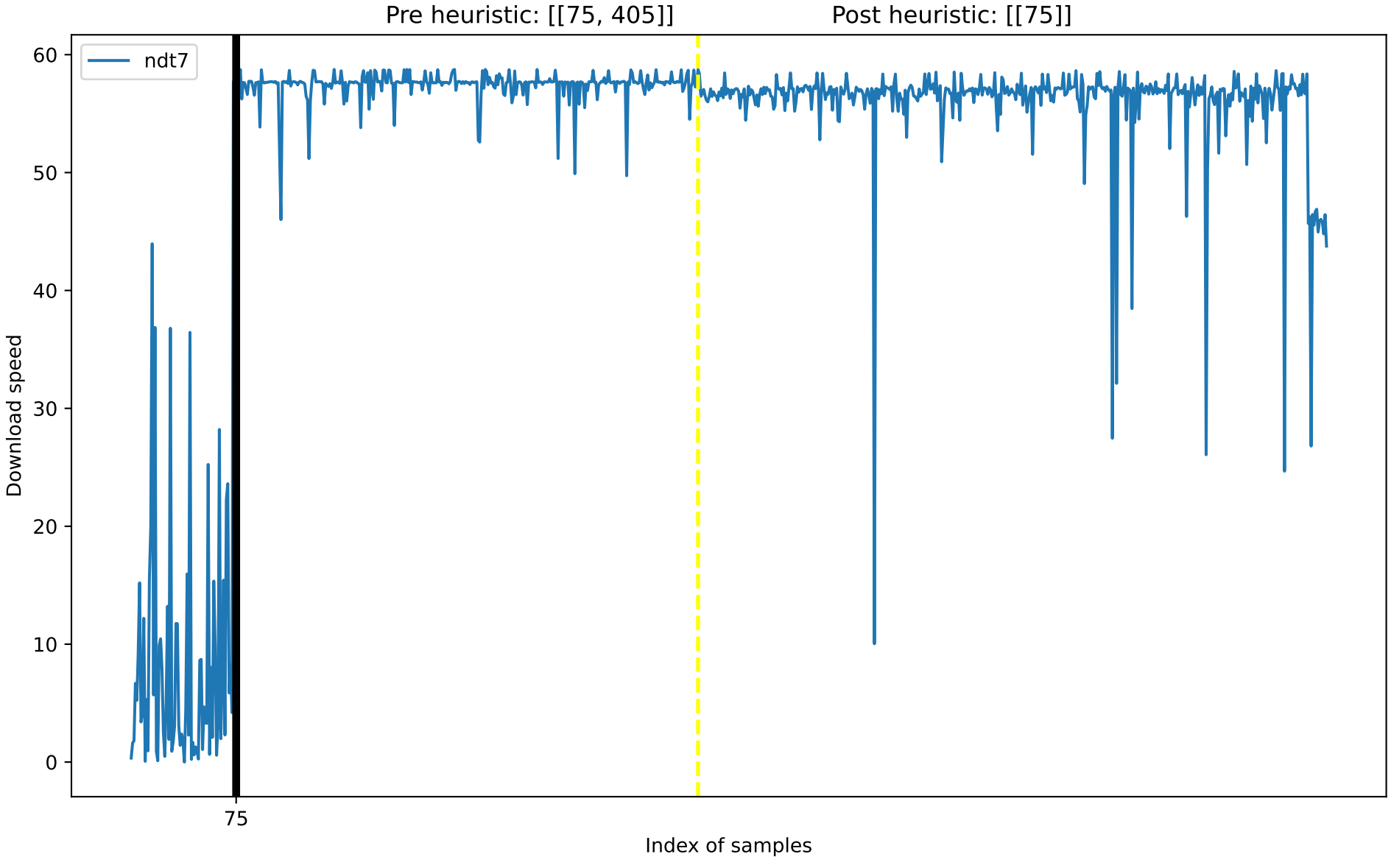

Pre heuristic: [[125]]
Post heuristic: [[125]]
ookla
800
600
400
200
Upload speed
125
Index of samples

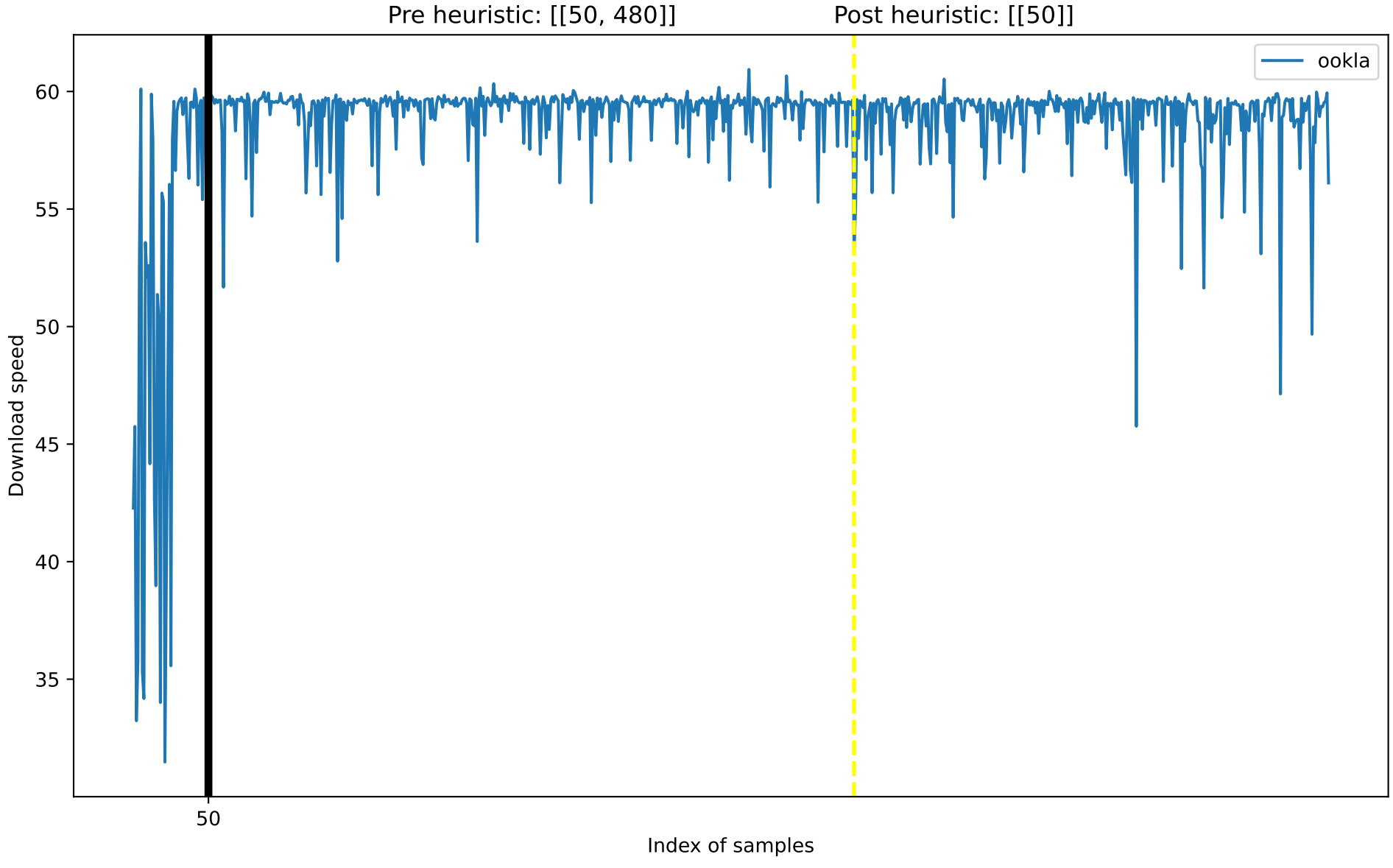

Pre heuristic: [[125]]
Post heuristic: [[125]]
ookla
800
600
400
200
Download speed
125
Index of samples

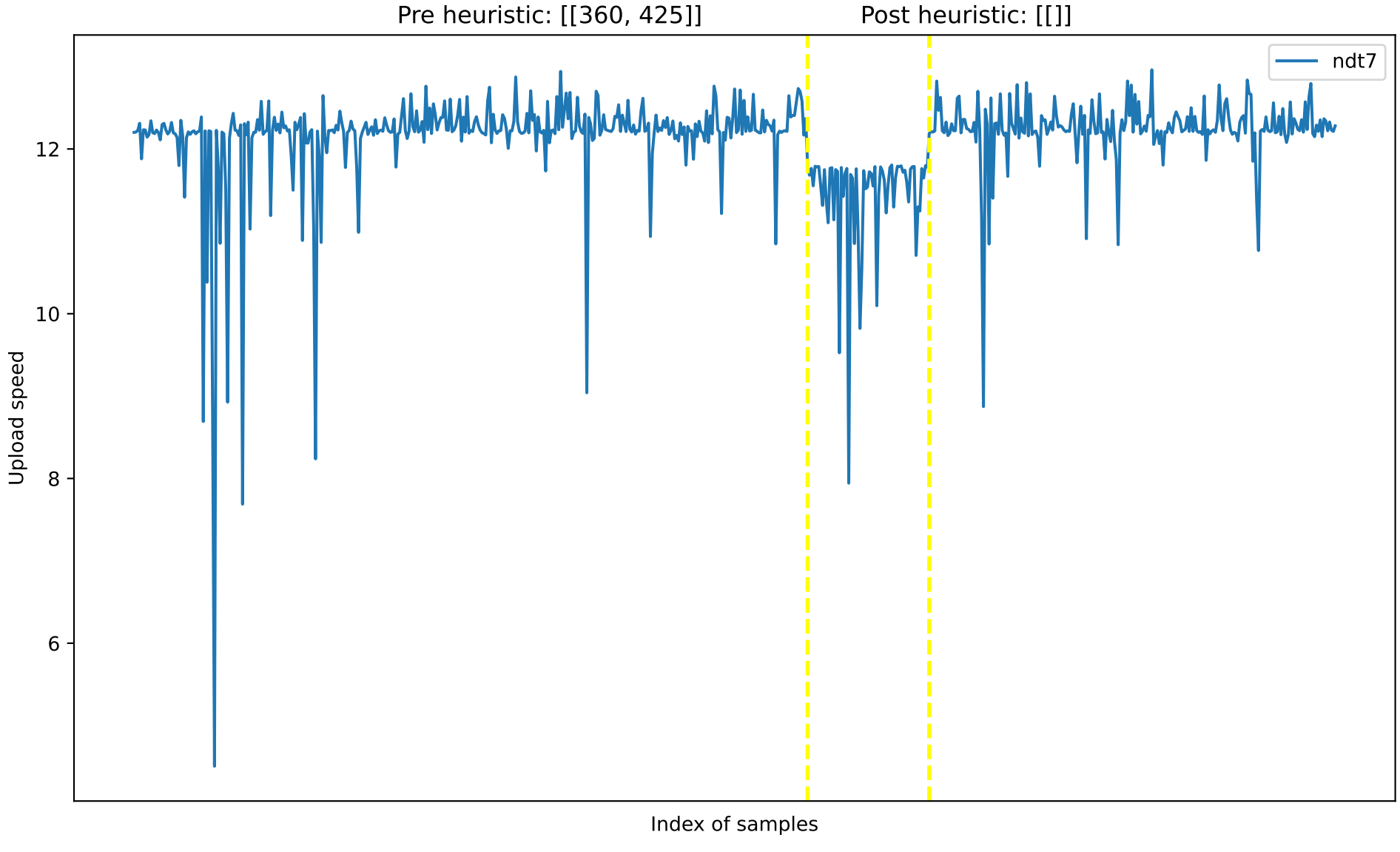

Pre heuristic: [[610, 710]]
Post heuristic: [[710]]
Upload speed
12
10
8
6
4
ndt7
710
Index of samples

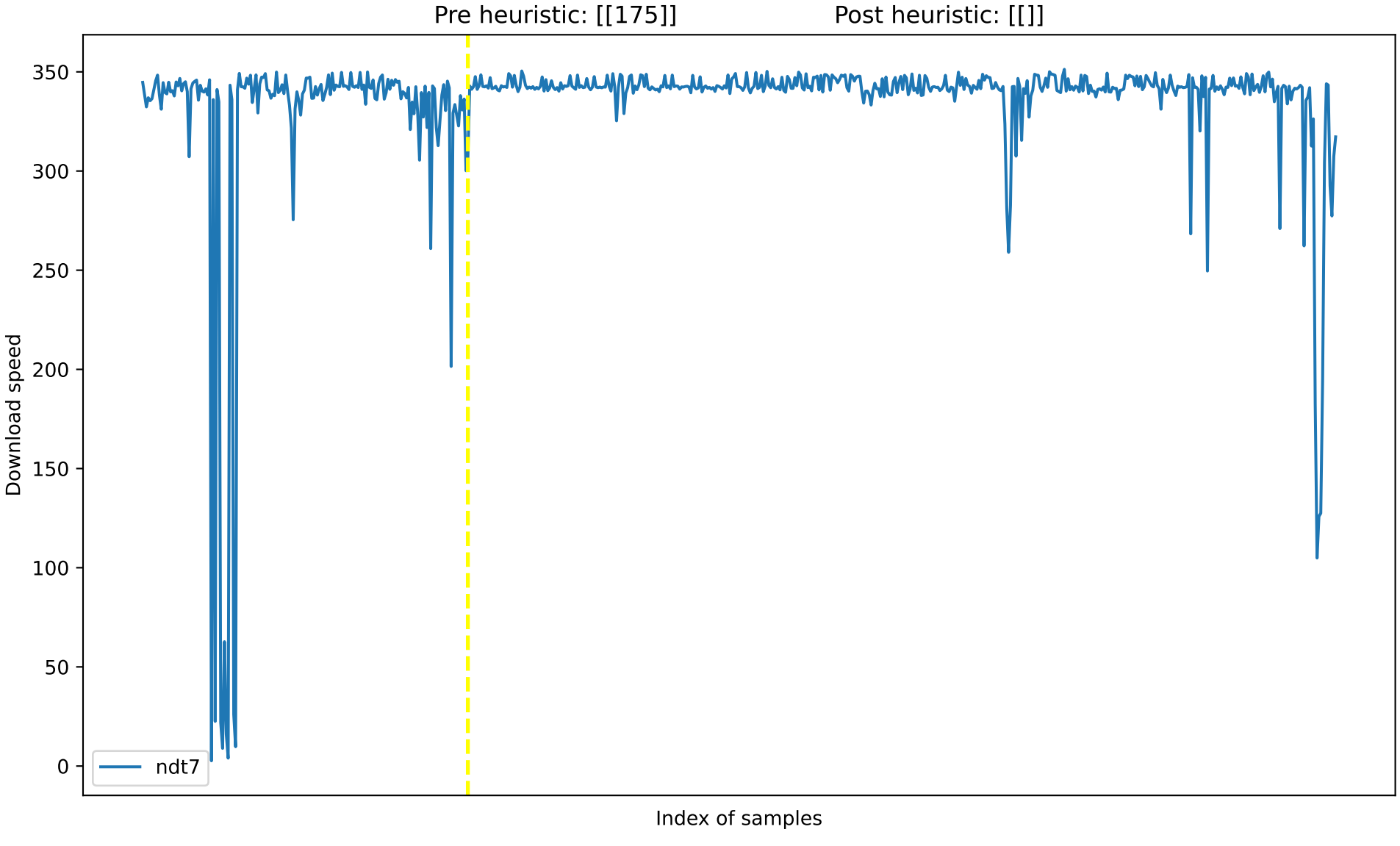

Pre heuristic: [[430, 710]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

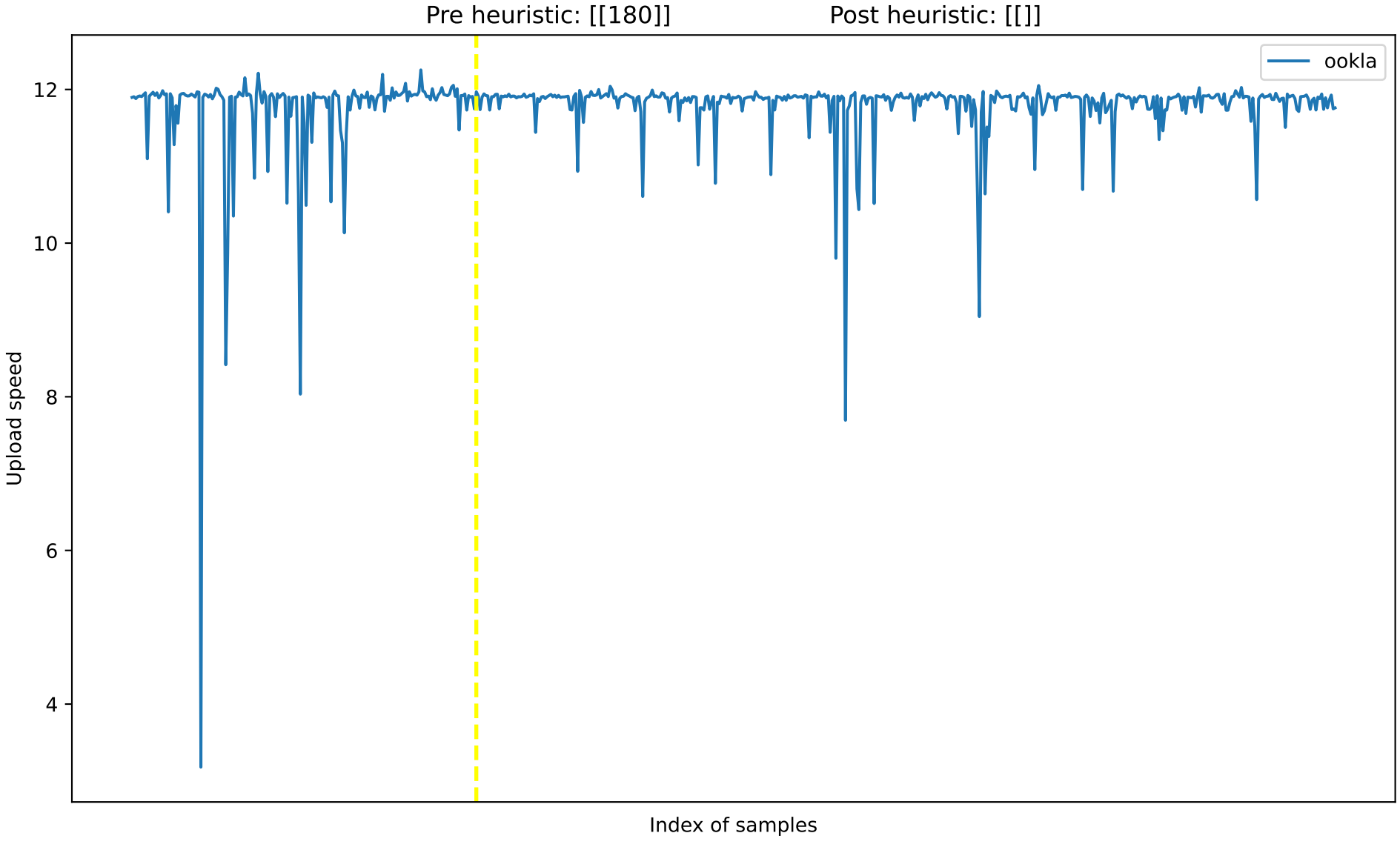

Pre heuristic: [[485, 545]]
Post heuristic: [[]]
ndt7
Upload speed
12
10
8
6
4
Index of samples

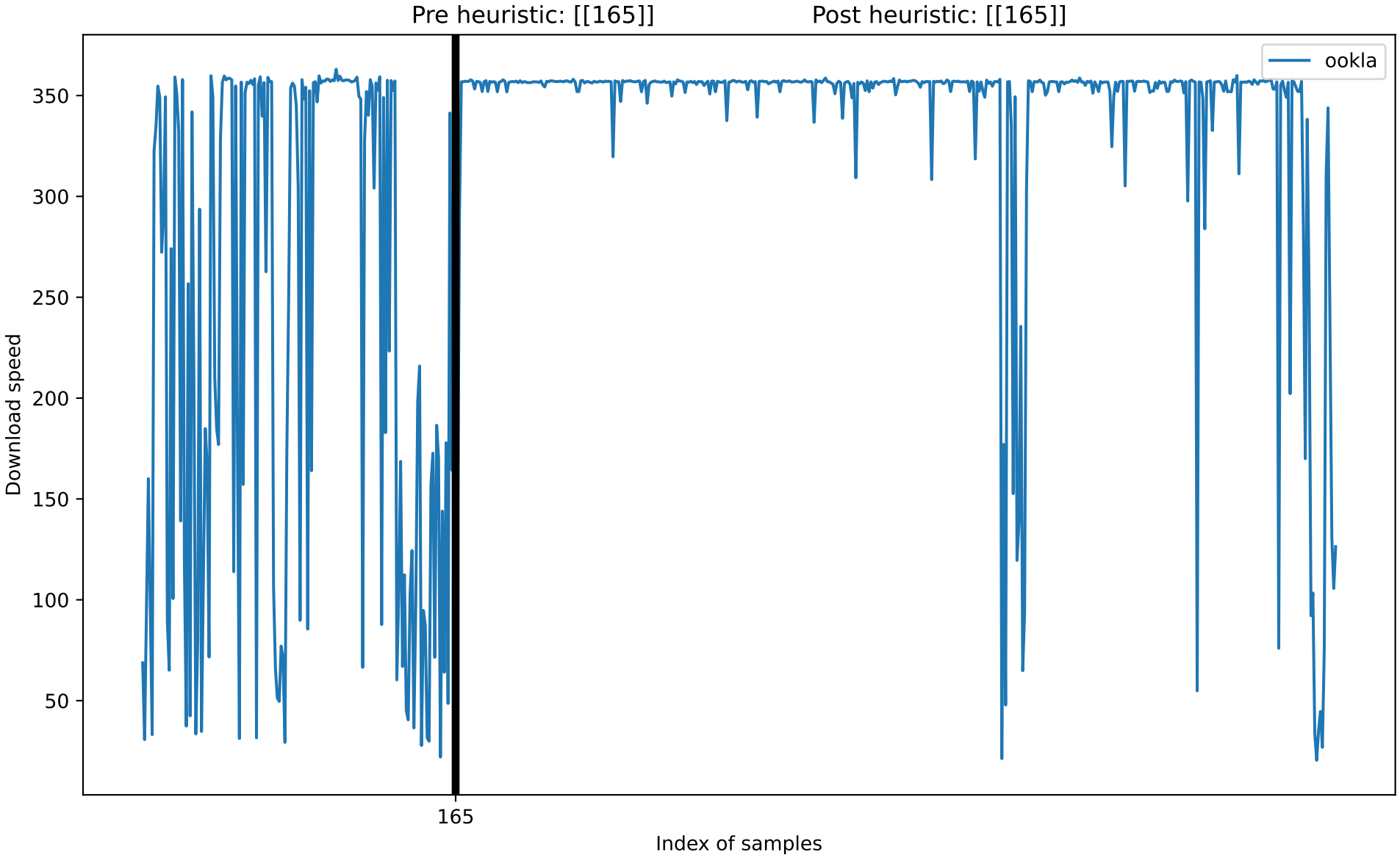

Pre heuristic: [[75, 405]]
Post heuristic: [[75]]
ndt7
Download speed
Index of samples
0
10
20
30
40
50
60
75

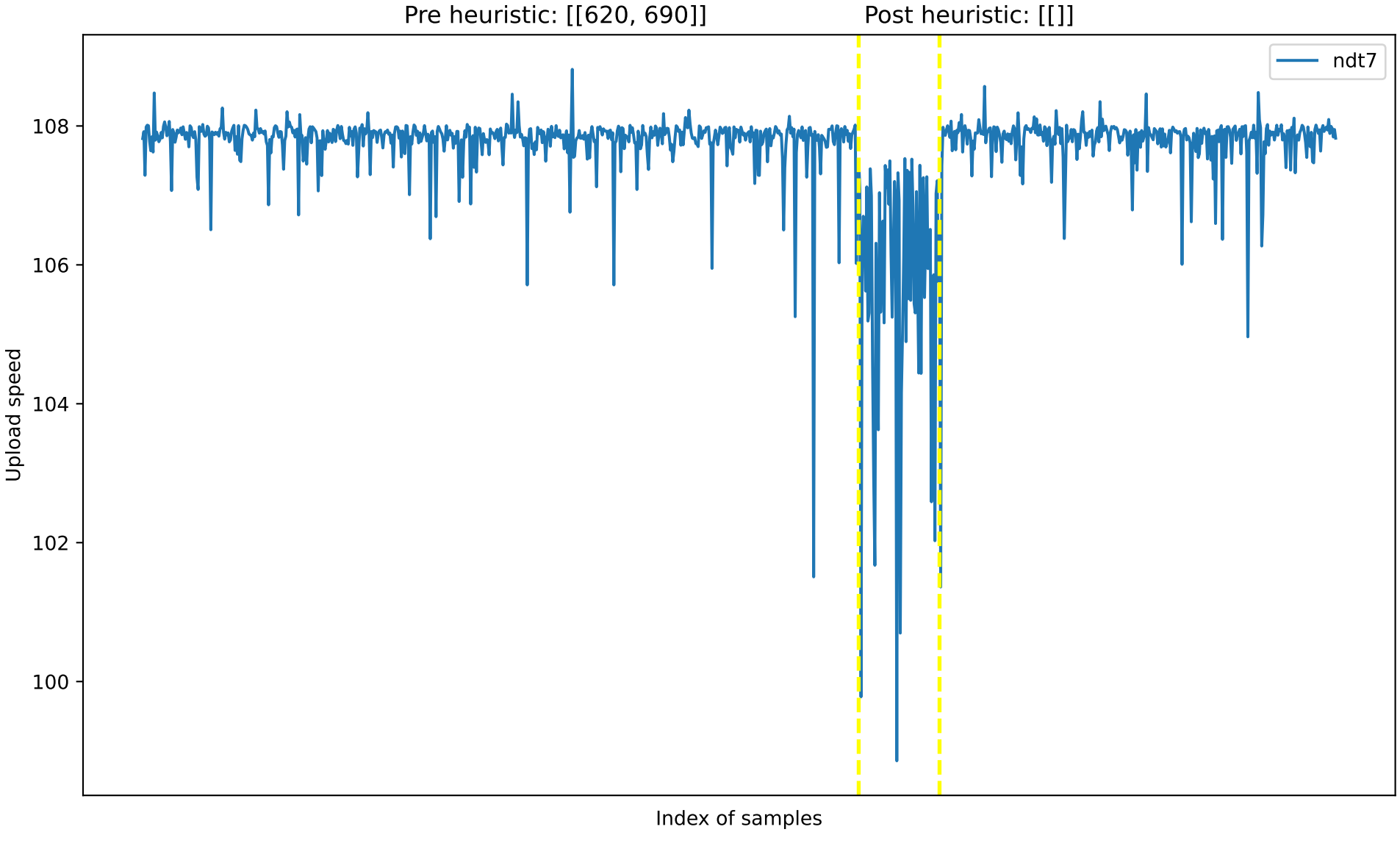

Pre heuristic: [[50, 480]]
Post heuristic: [[50]]
ookla
Download speed
60
55
50
45
40
35
50
Index of samples

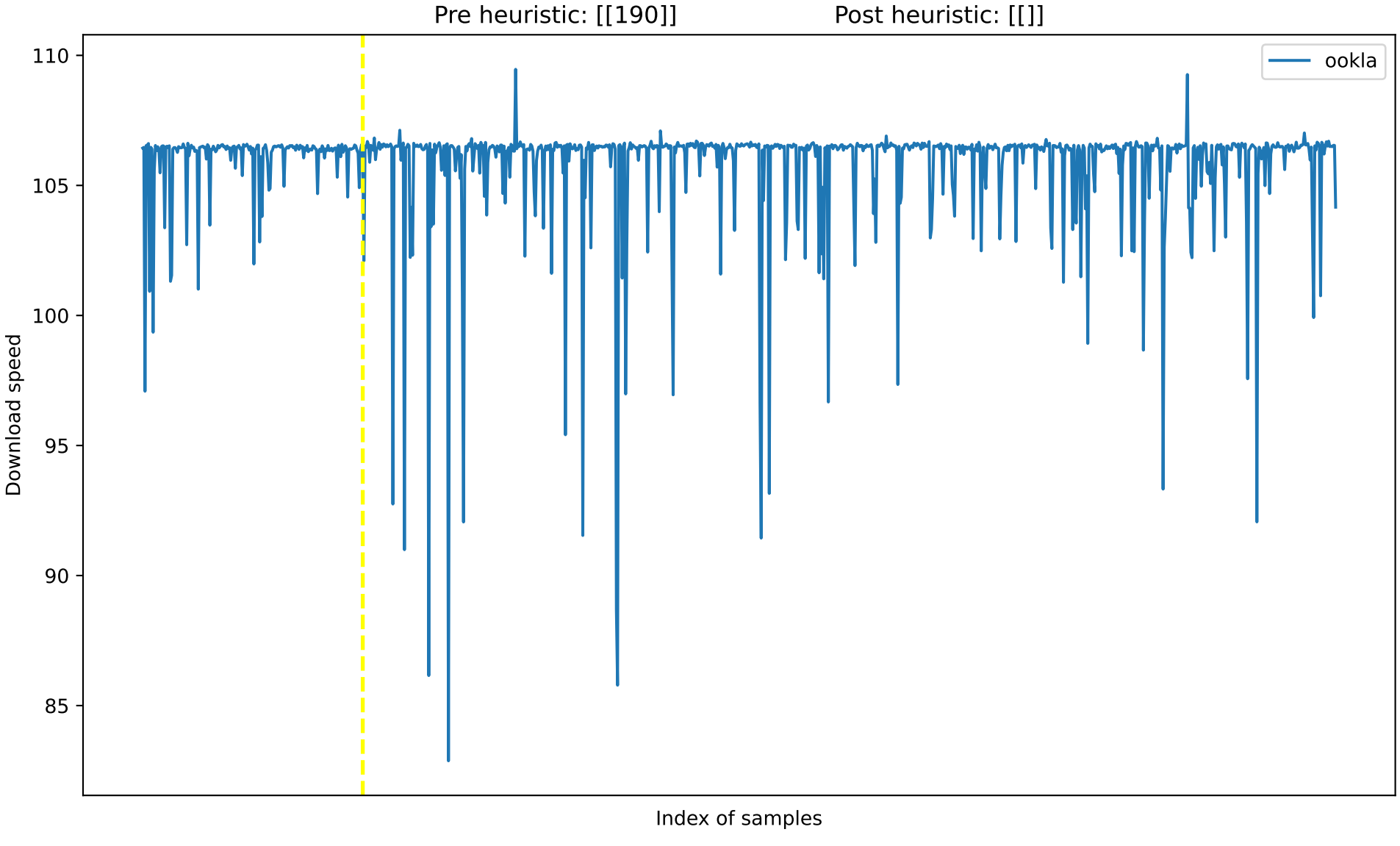

Pre heuristic: [[360, 425]]
Post heuristic: [[]]
ndt7
Upload speed
12
10
8
6
Index of samples

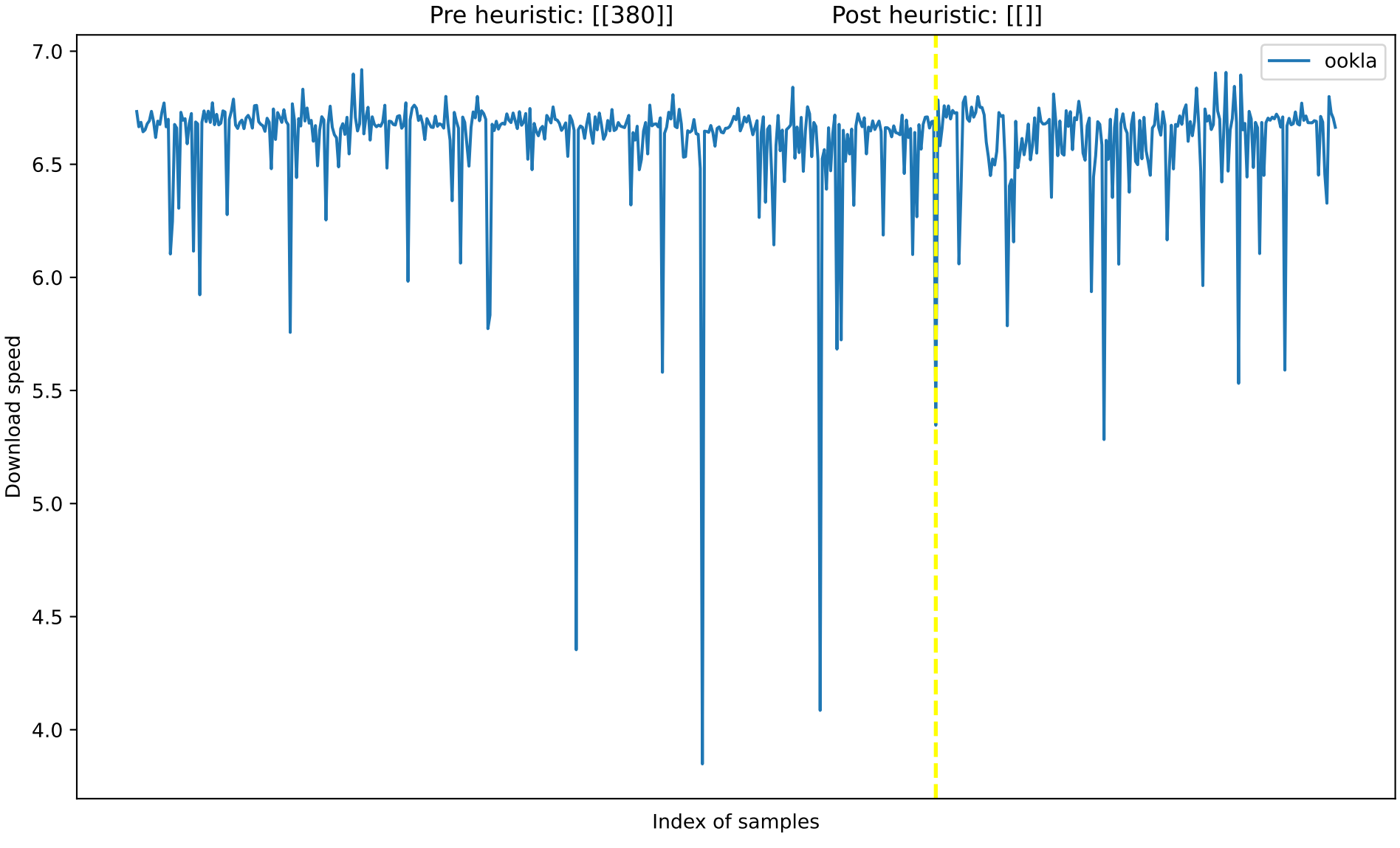

Pre heuristic: [[175]]
Post heuristic: [[]]
Download speed
Index of samples
ndt7
0
50
100
150
200
250
300
350

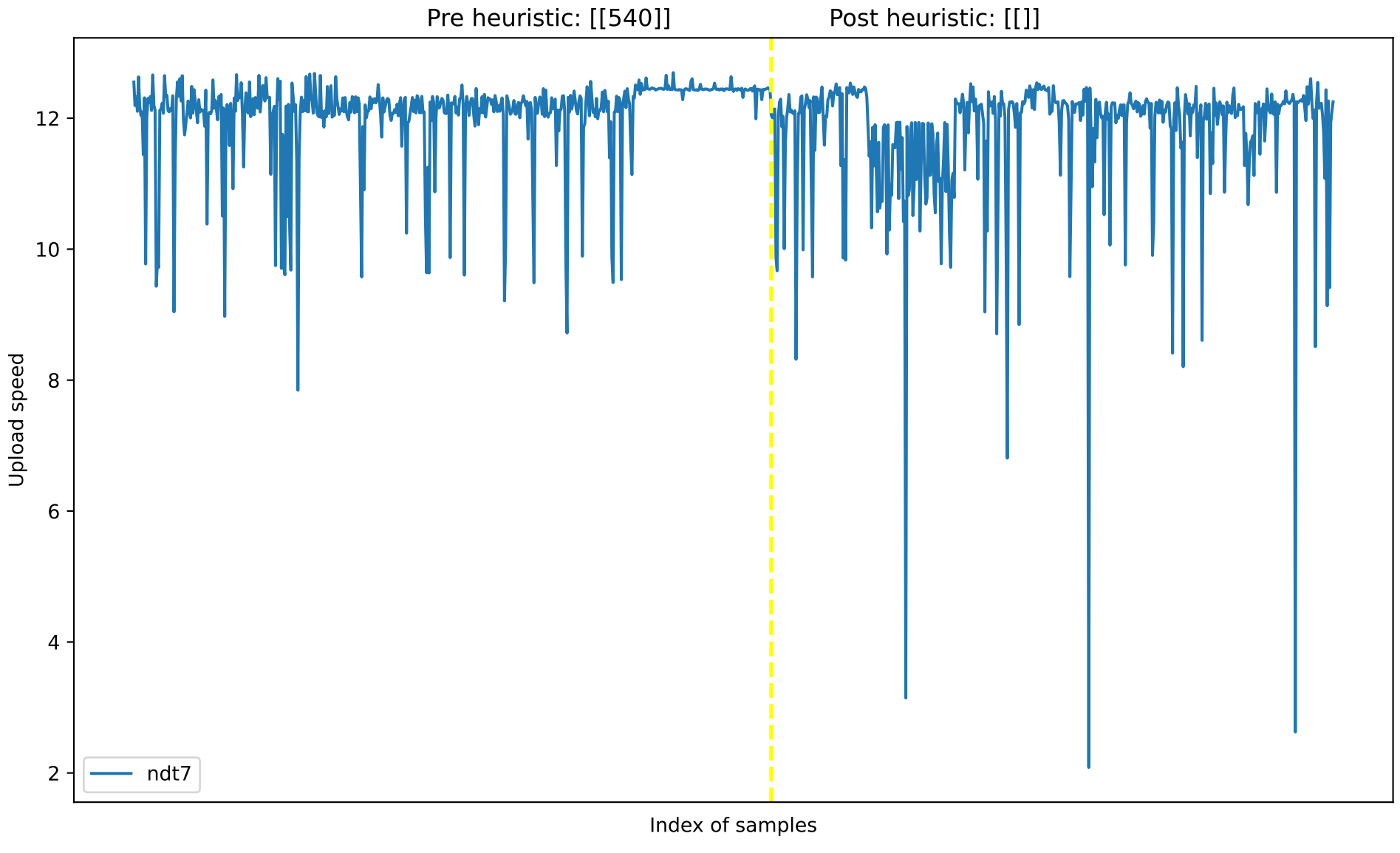

Pre heuristic: [[180]]
Post heuristic: [[]]
ookla
12
10
8
6
4
Upload speed
Index of samples

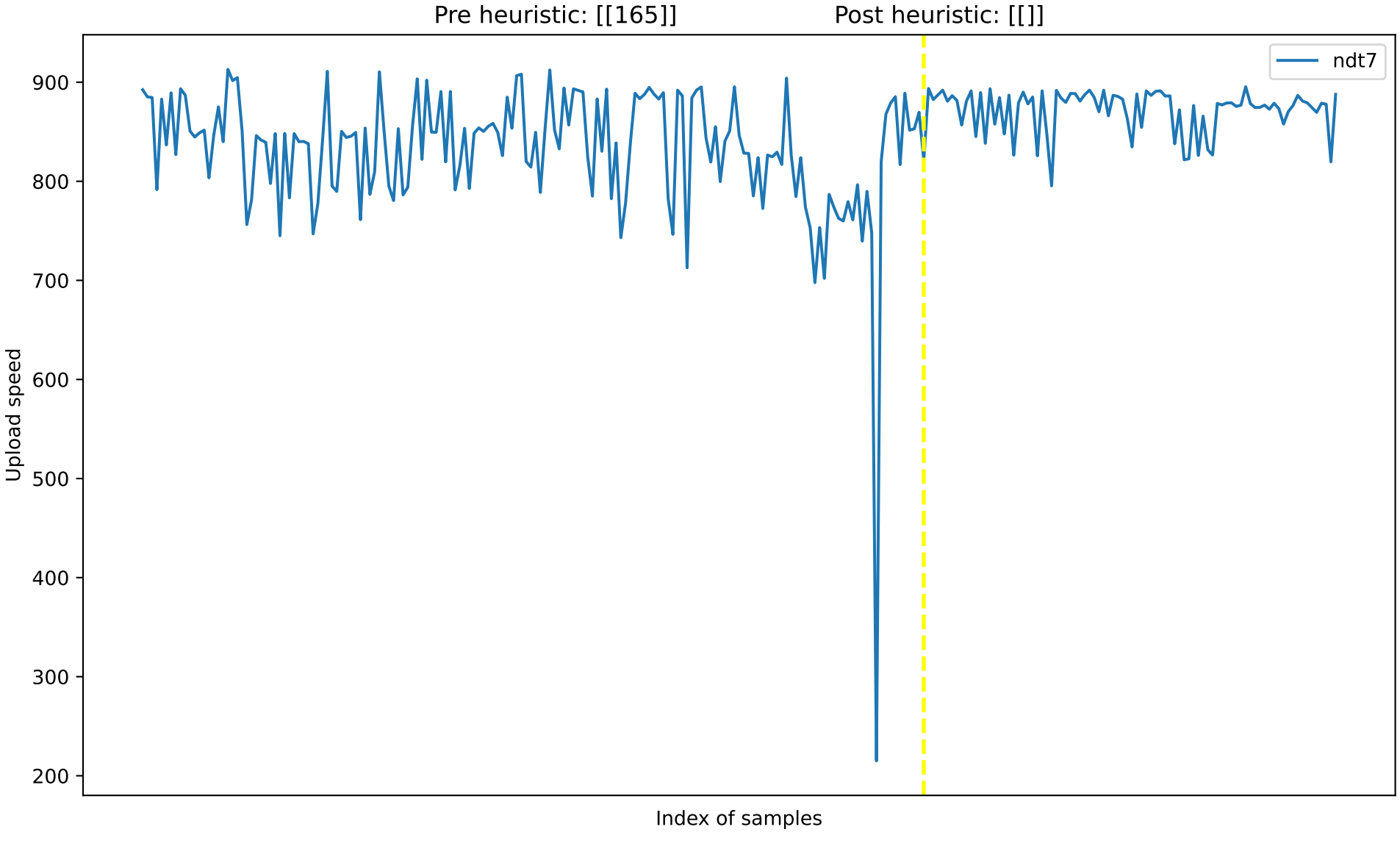

Pre heuristic: [[165]]
Post heuristic: [[165]]
ookla
Download speed
350
300
250
200
150
100
50
165
Index of samples

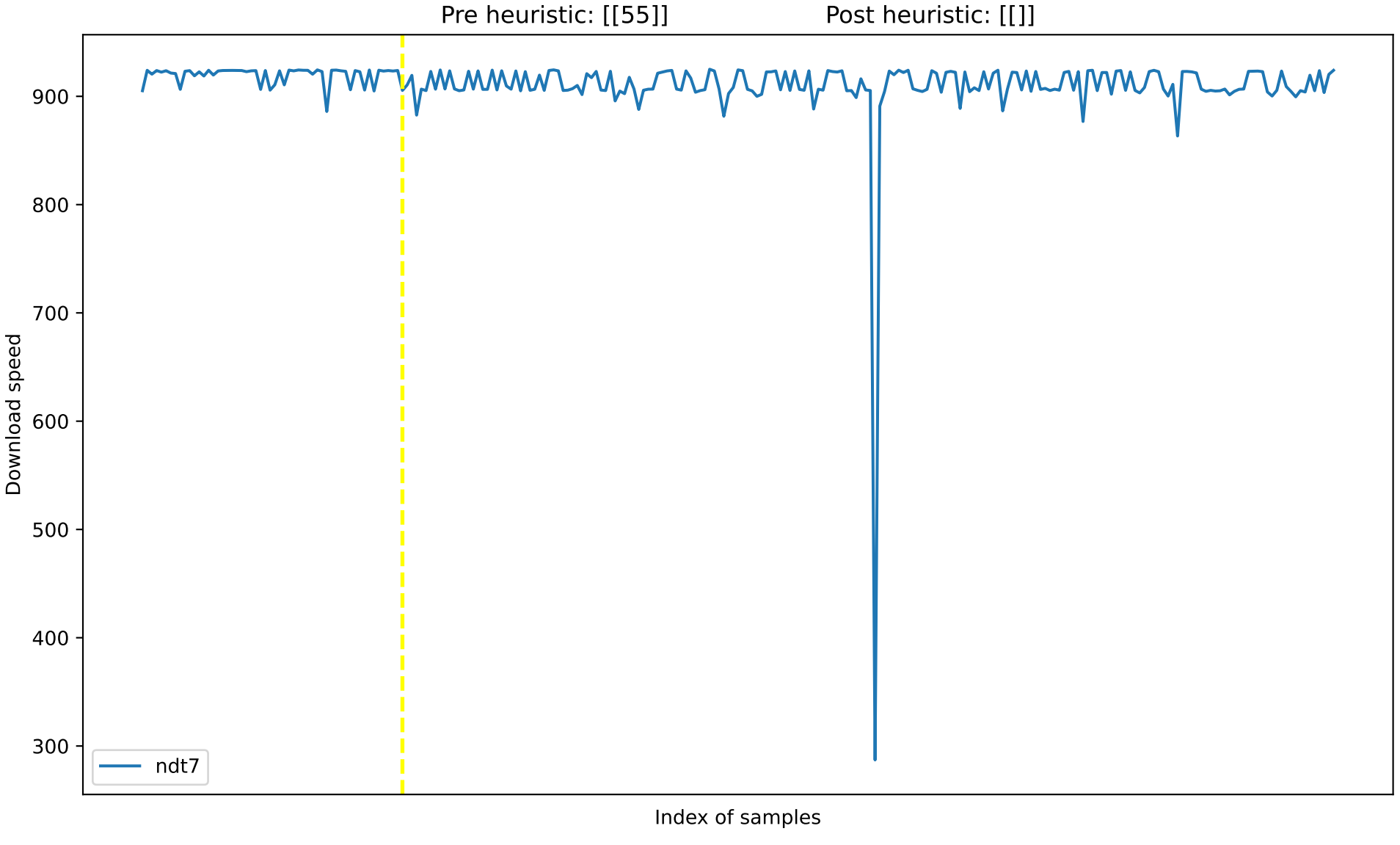

Pre heuristic: [[620, 690]]
Post heuristic: [[]]
ndt7
108
106
104
102
100
Upload speed
Index of samples

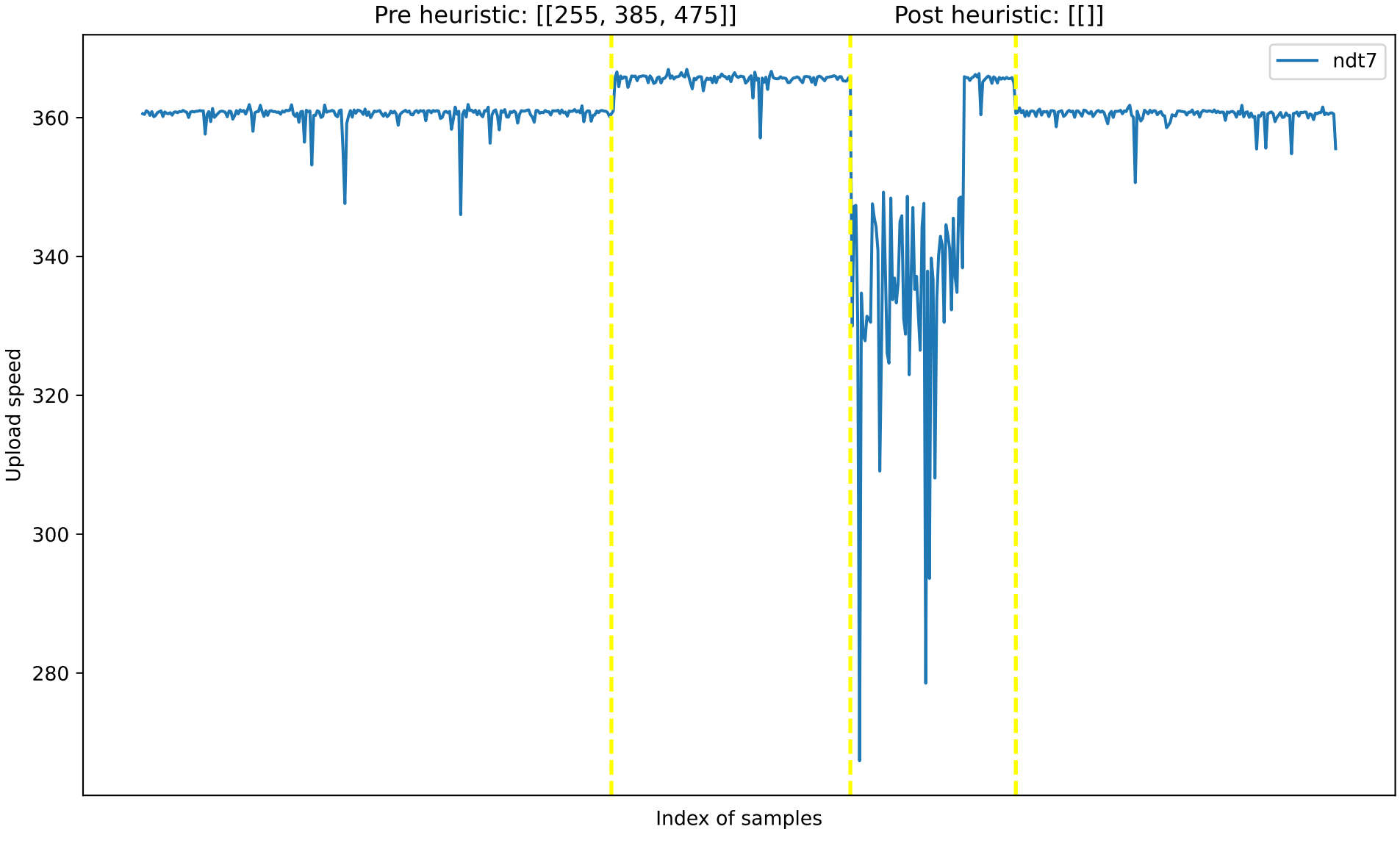

Pre heuristic: [[190]]
Post heuristic: [[]]
ookla
110
105
100
95
90
85
Download speed
Index of samples

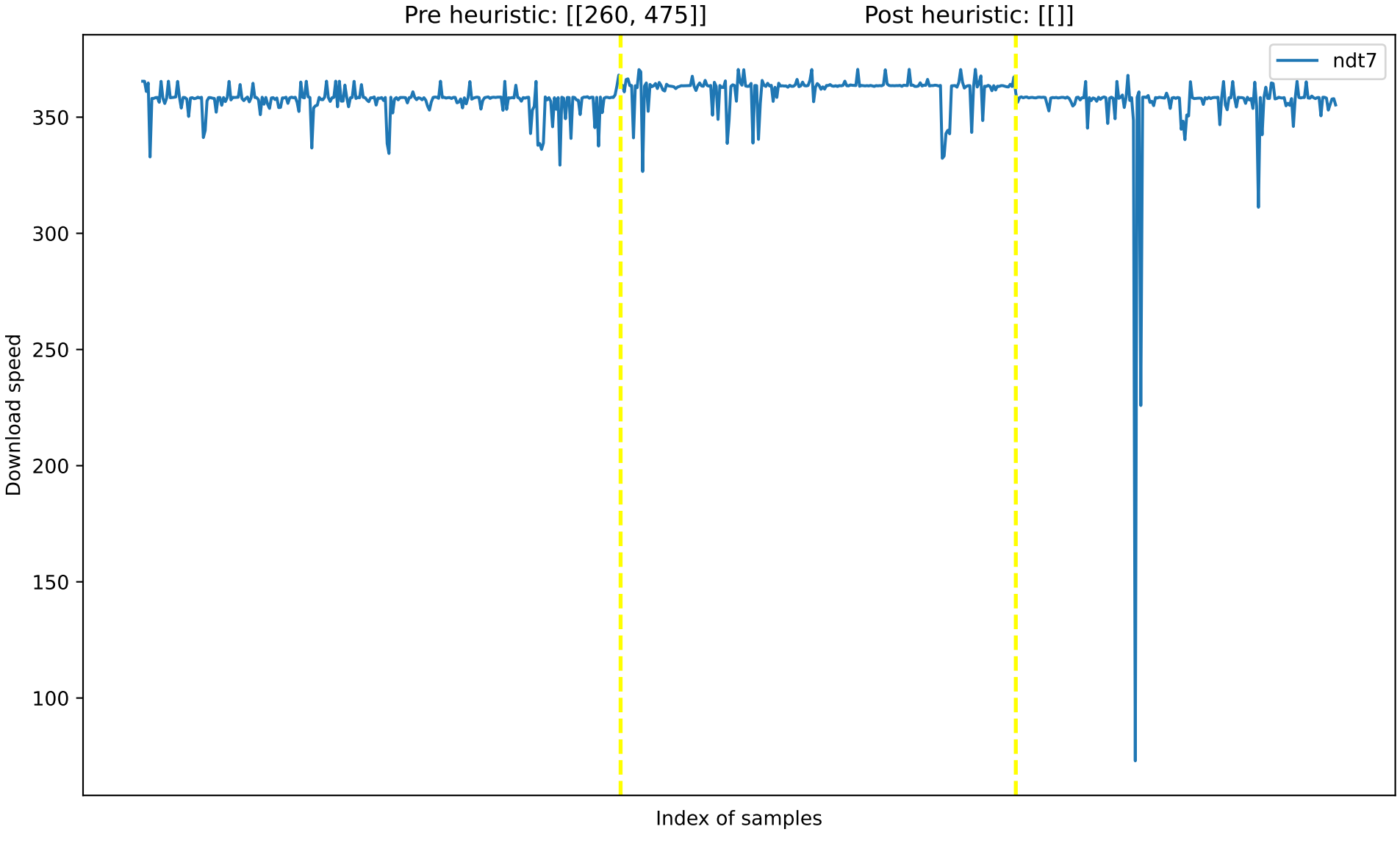

Pre heuristic: [[380]]
Post heuristic: [[]]
ookla
Download speed
Index of samples
7.0
6.5
6.0
5.5
5.0
4.5
4.0

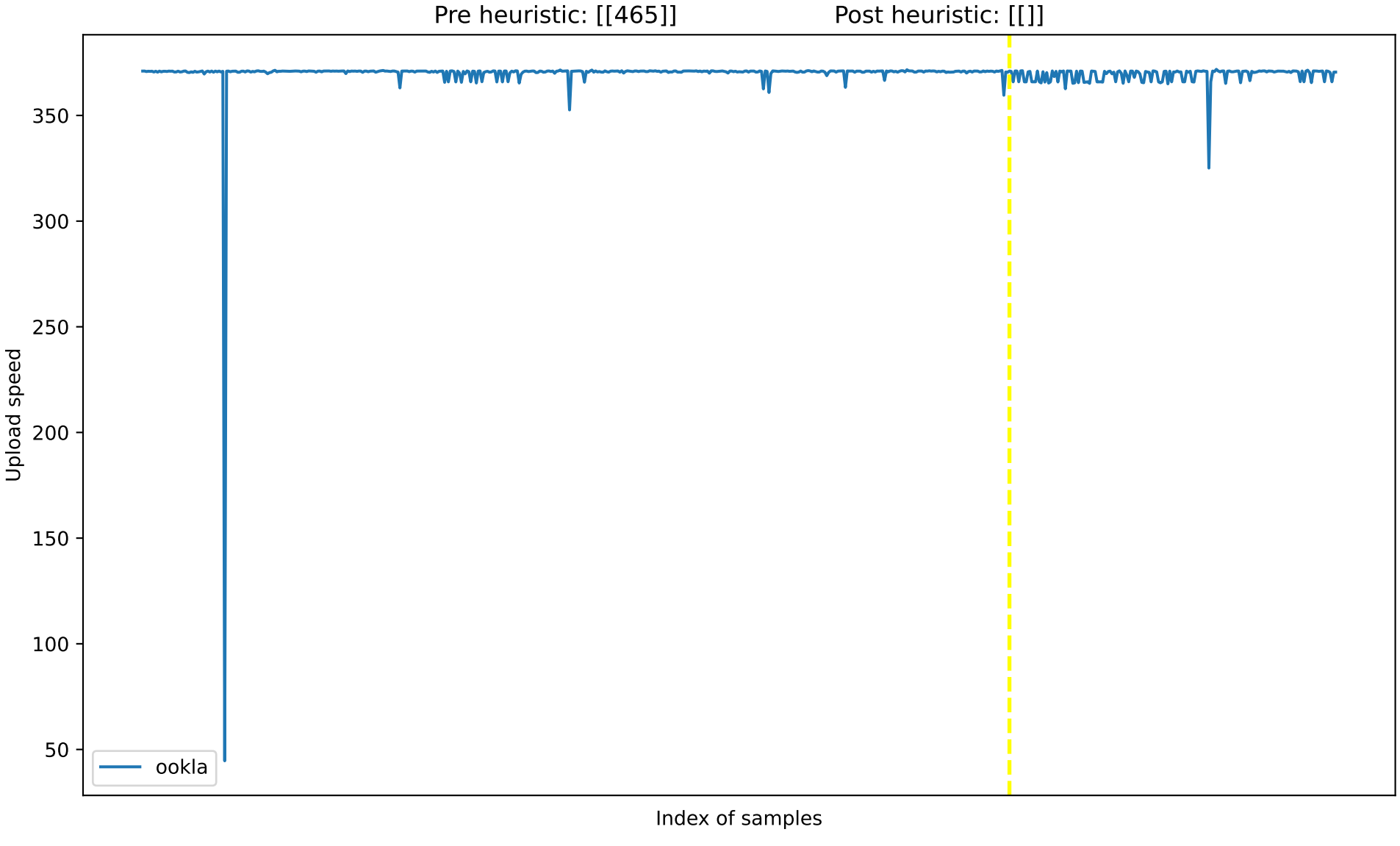

Pre heuristic: [[540]]
Post heuristic: [[]]
Upload speed
12
10
8
6
4
2
ndt7
Index of samples

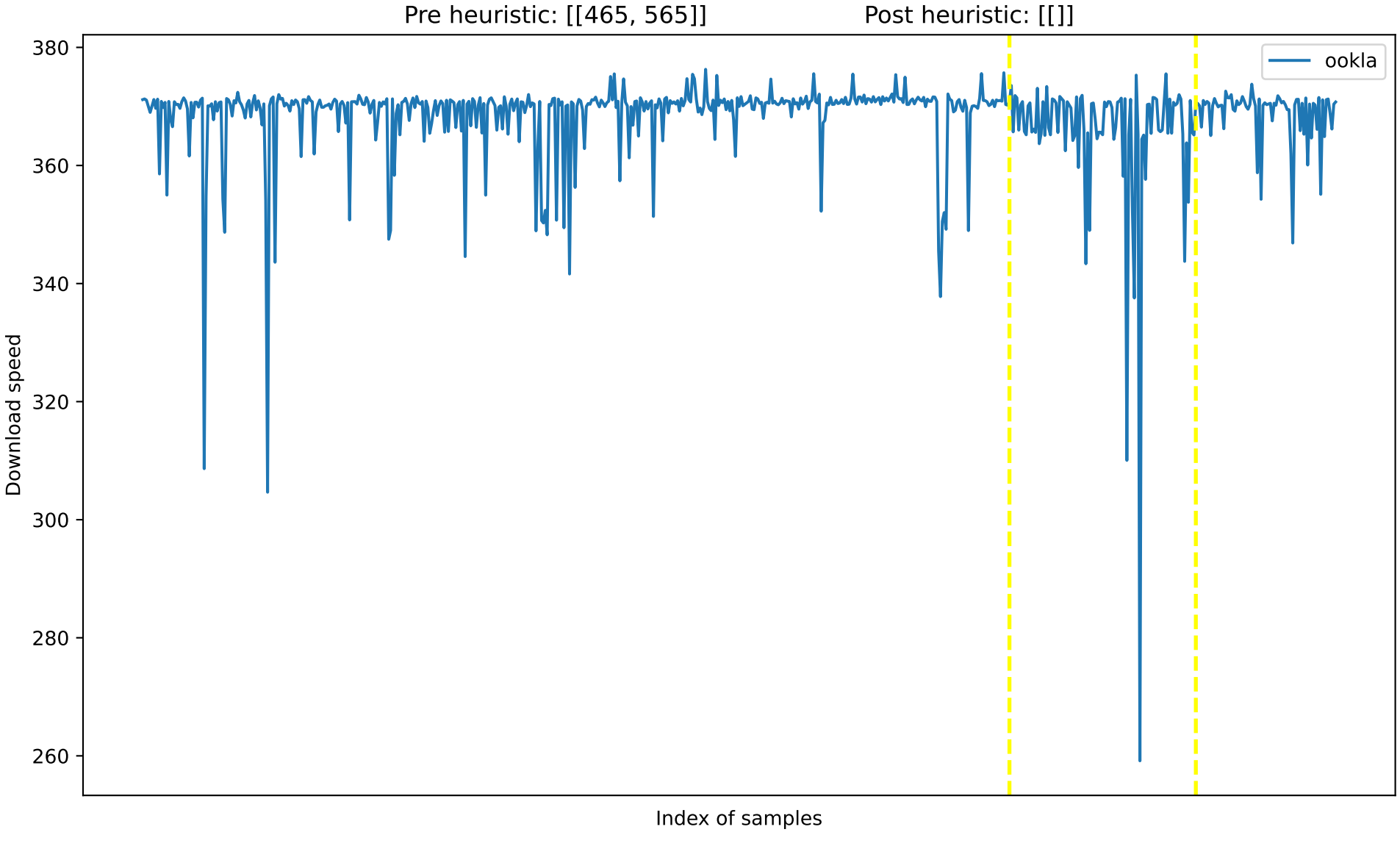

Pre heuristic: [[165]]
Post heuristic: [[]]
ndt7
Upload speed
900
800
700
600
500
400
300
200
Index of samples

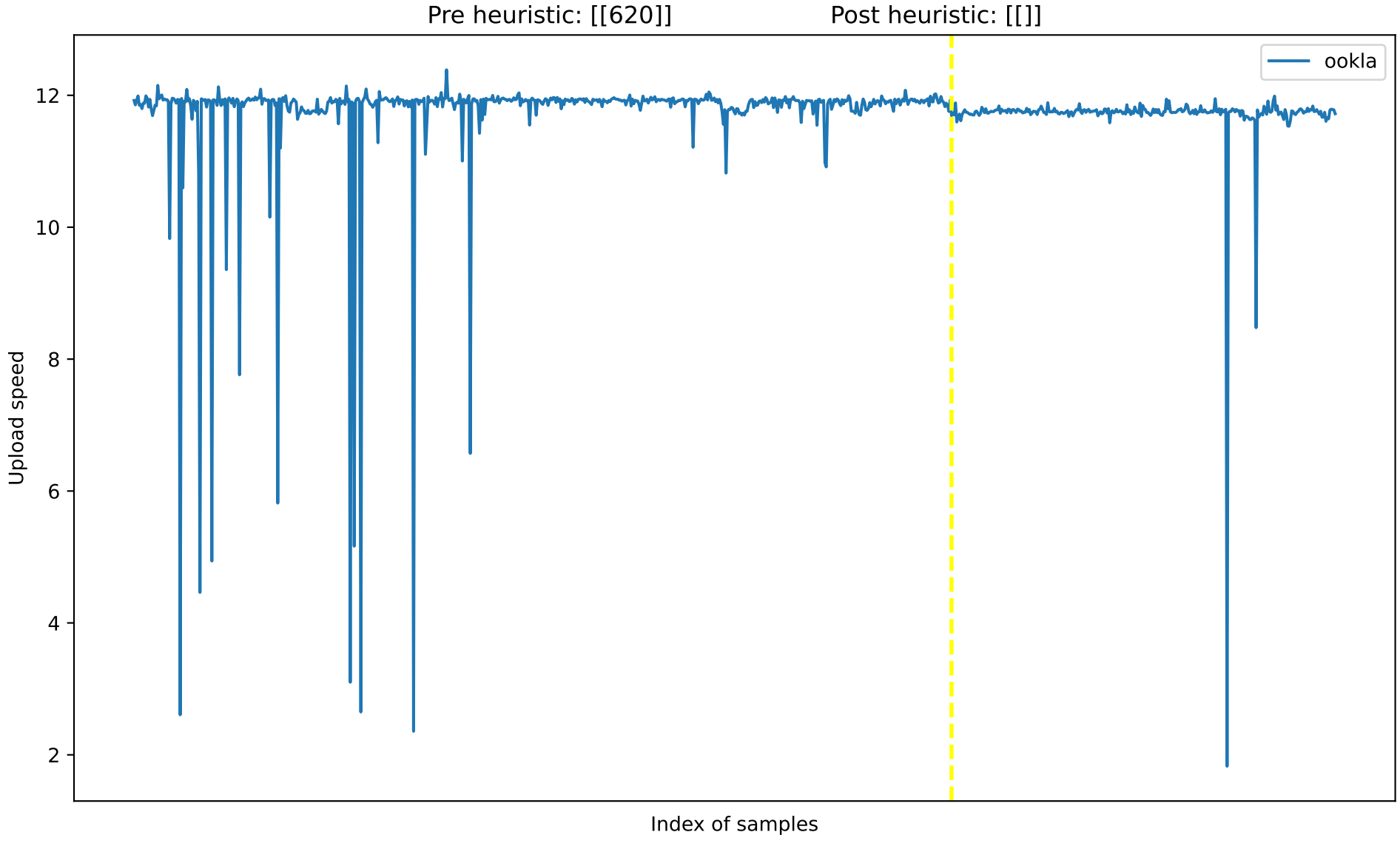

Pre heuristic: [[55]]
Post heuristic: [[]]
900
800
700
600
500
400
300
Download speed
ndt7
Index of samples

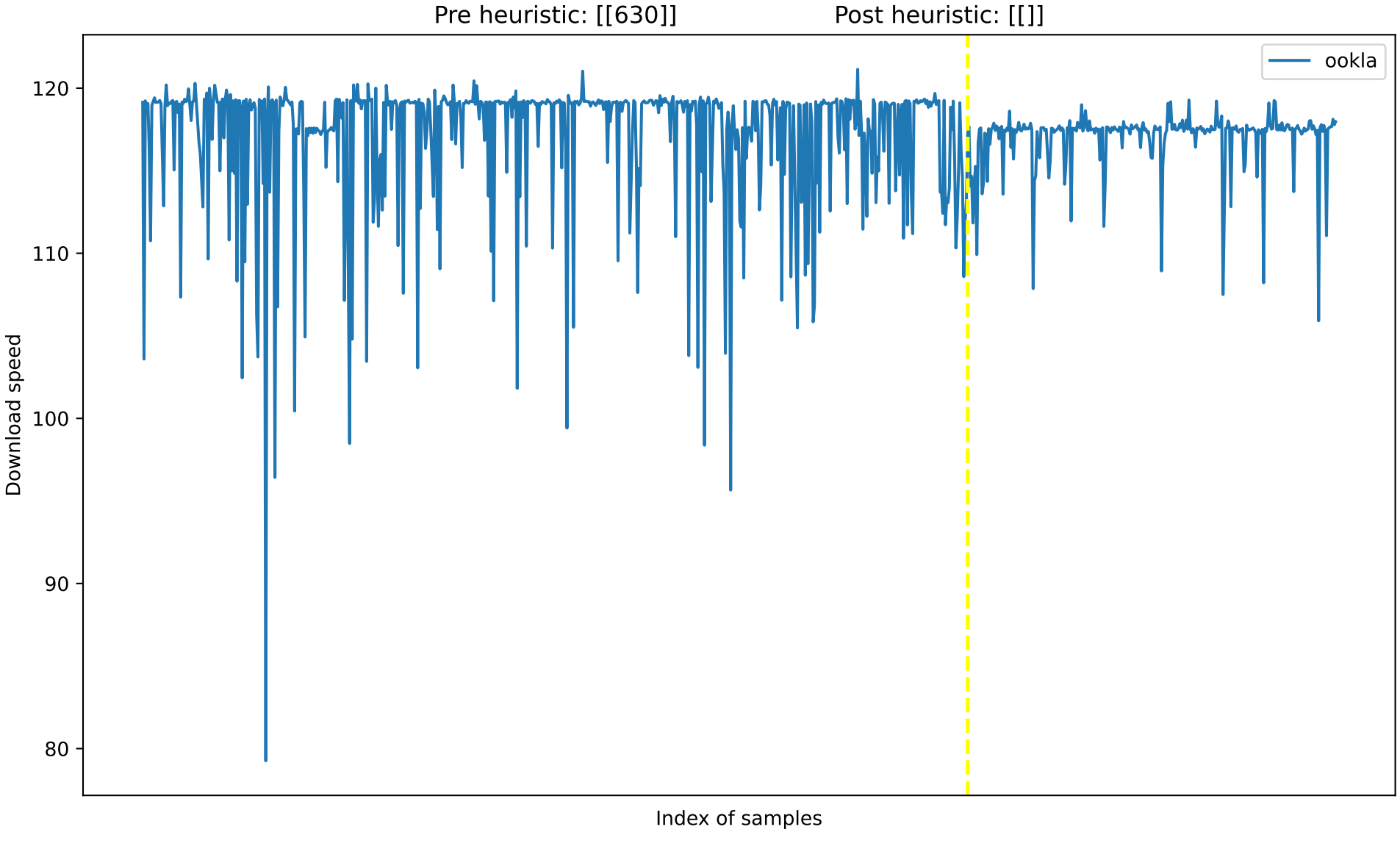

Pre heuristic: [[255, 385, 475]]
Post heuristic: [[]]
ndt7
360
340
320
300
280
Upload speed
Index of samples

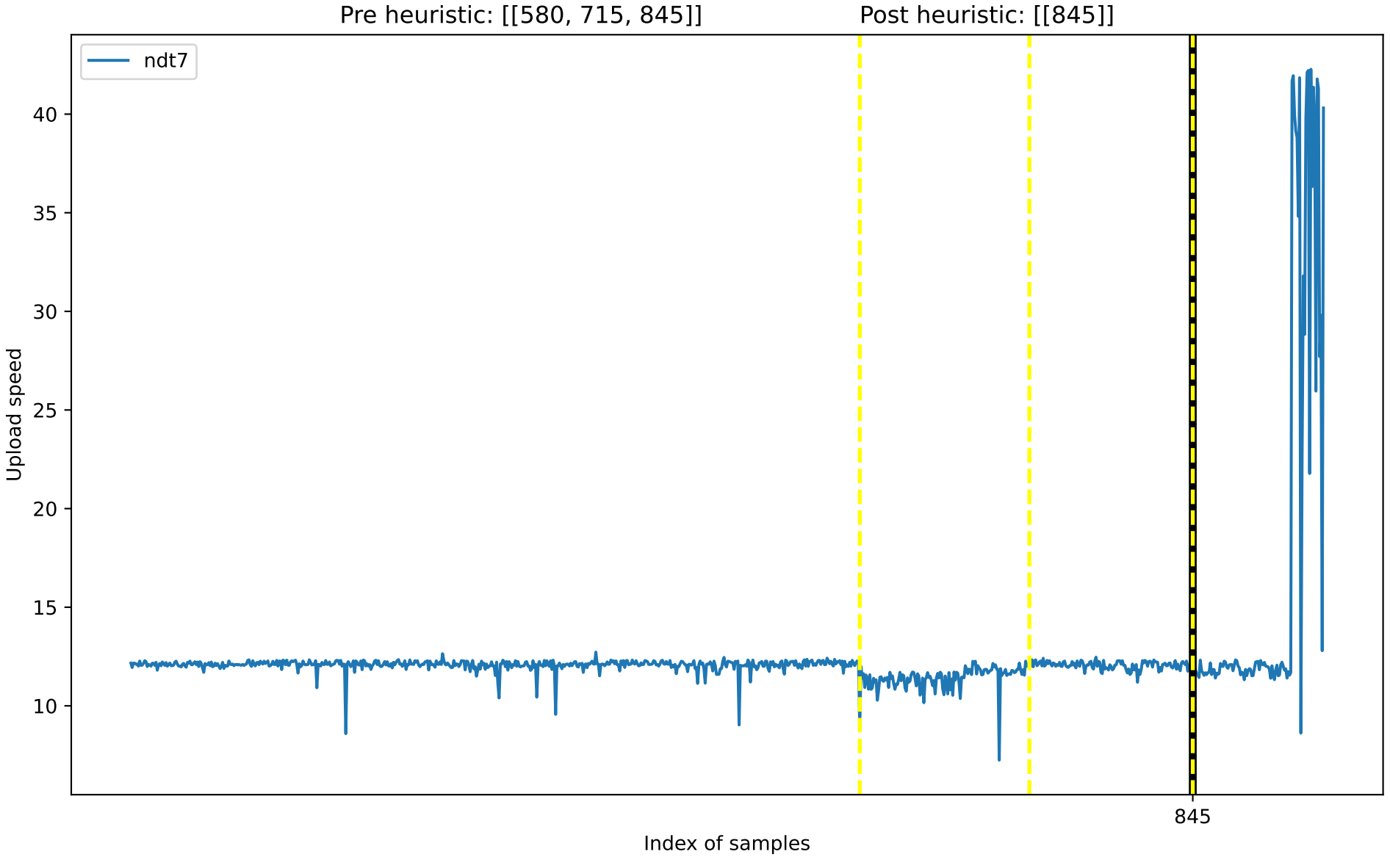

Pre heuristic: [[260, 475]]
Post heuristic: [[]]
ndt7
Download speed
350
300
250
200
150
100
Index of samples

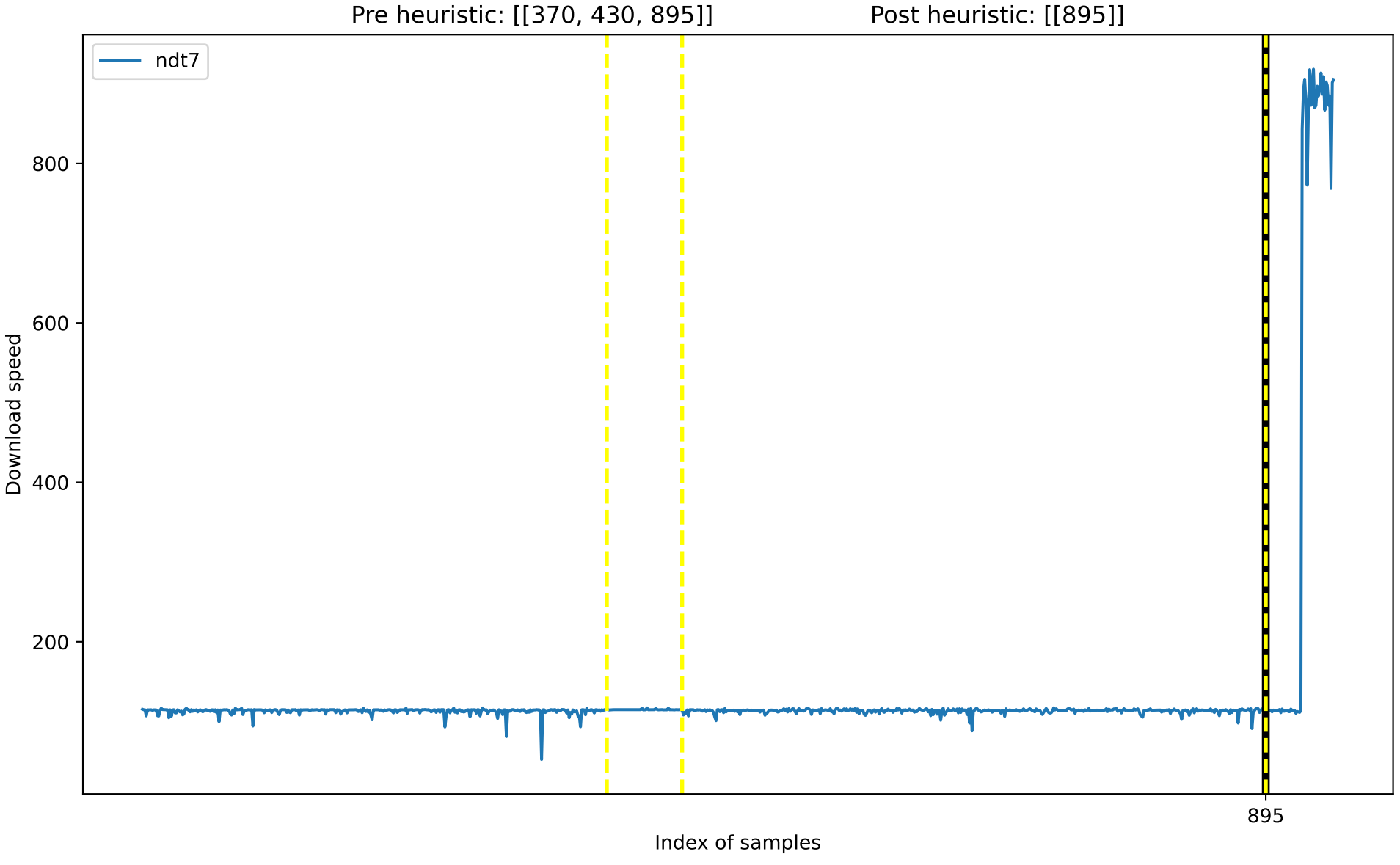

Pre heuristic: [[465]]
Post heuristic: [[]]
Upload speed
350
300
250
200
150
100
50
ookla
Index of samples

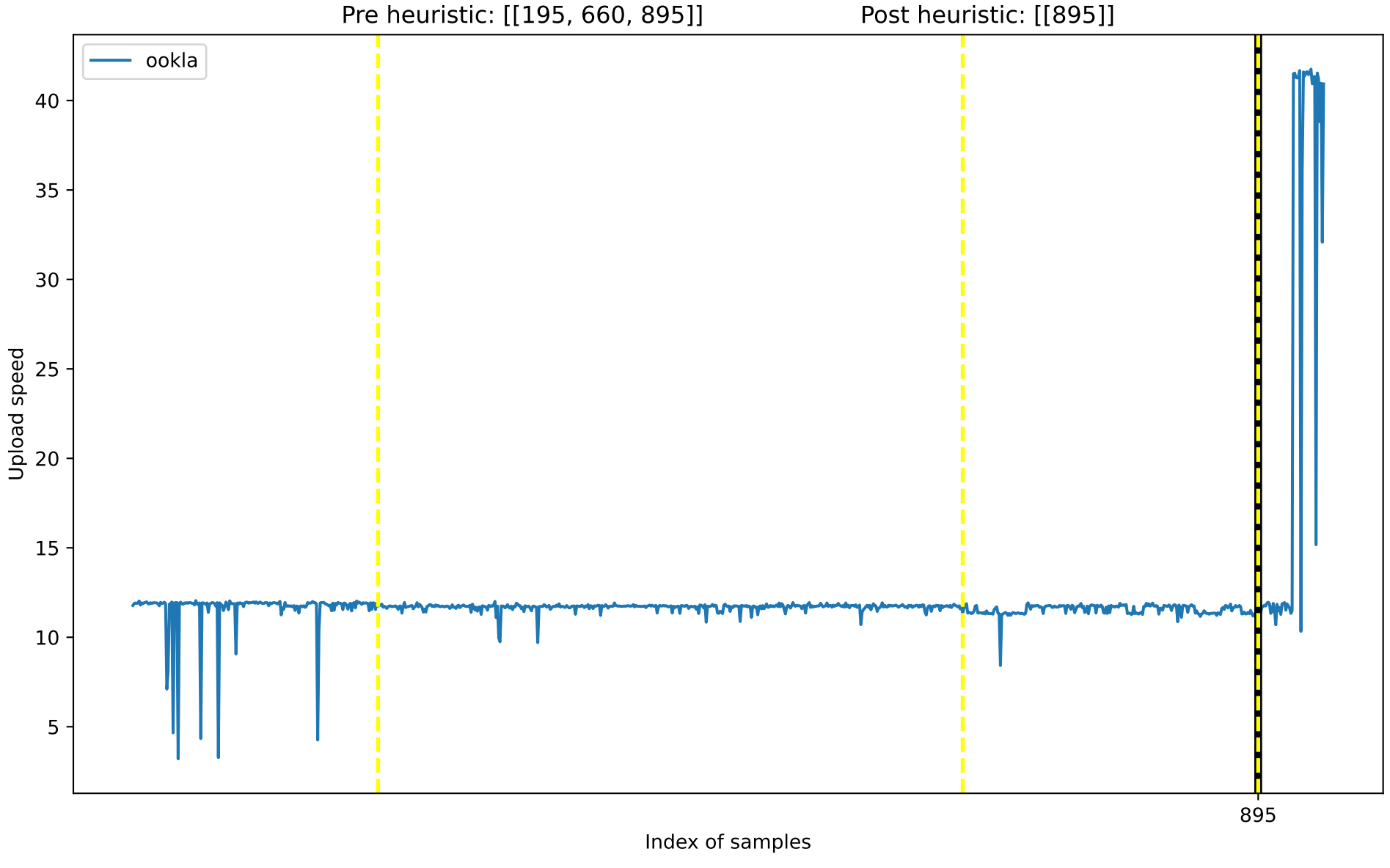

Pre heuristic: [[465, 565]]
Post heuristic: [[]]
ookla
Download speed
380
360
340
320
300
280
260
Index of samples

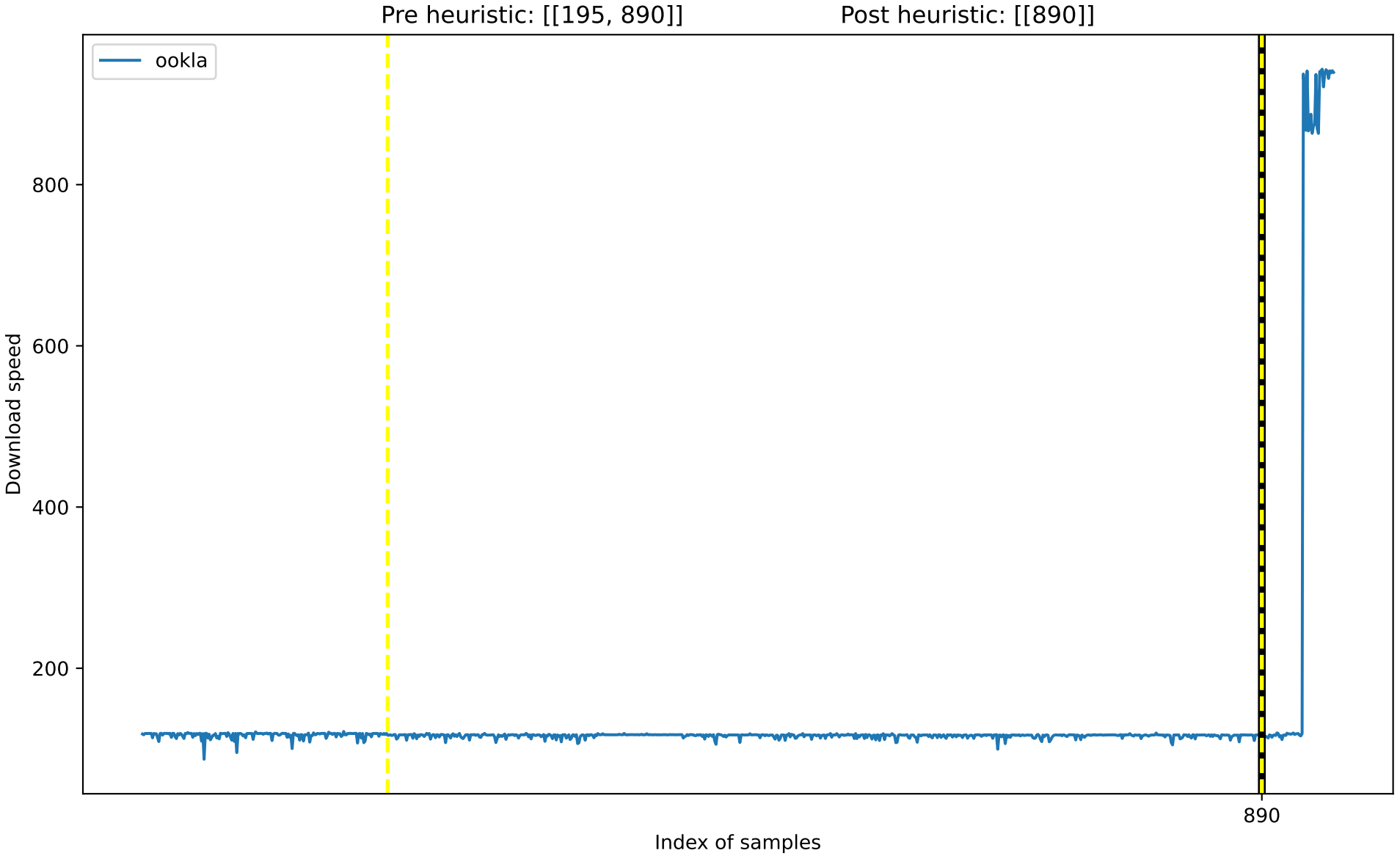

Pre heuristic: [[620]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

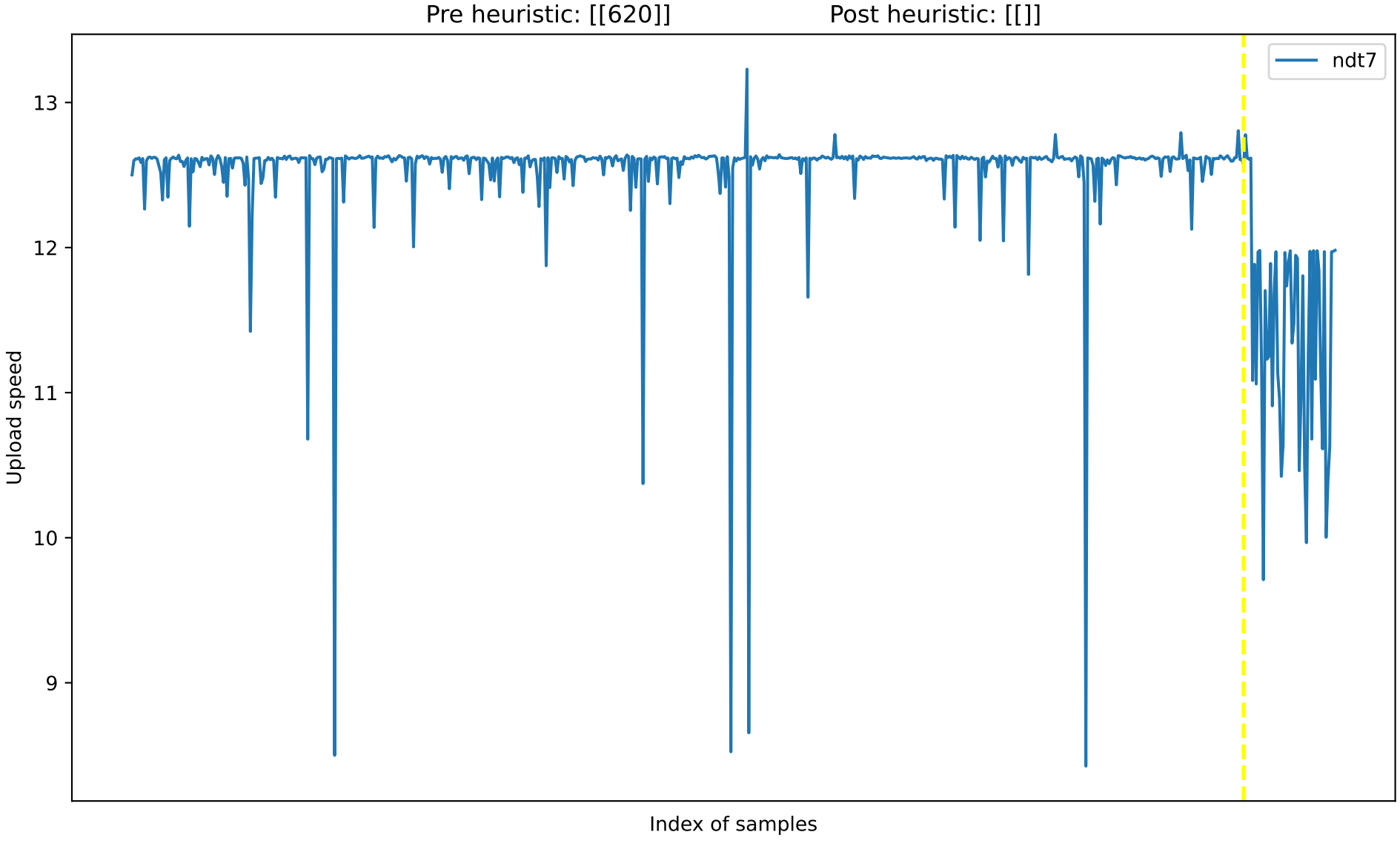

Pre heuristic: [[630]]
Post heuristic: [[]]
ookla
120
110
100
90
80
Download speed
Index of samples

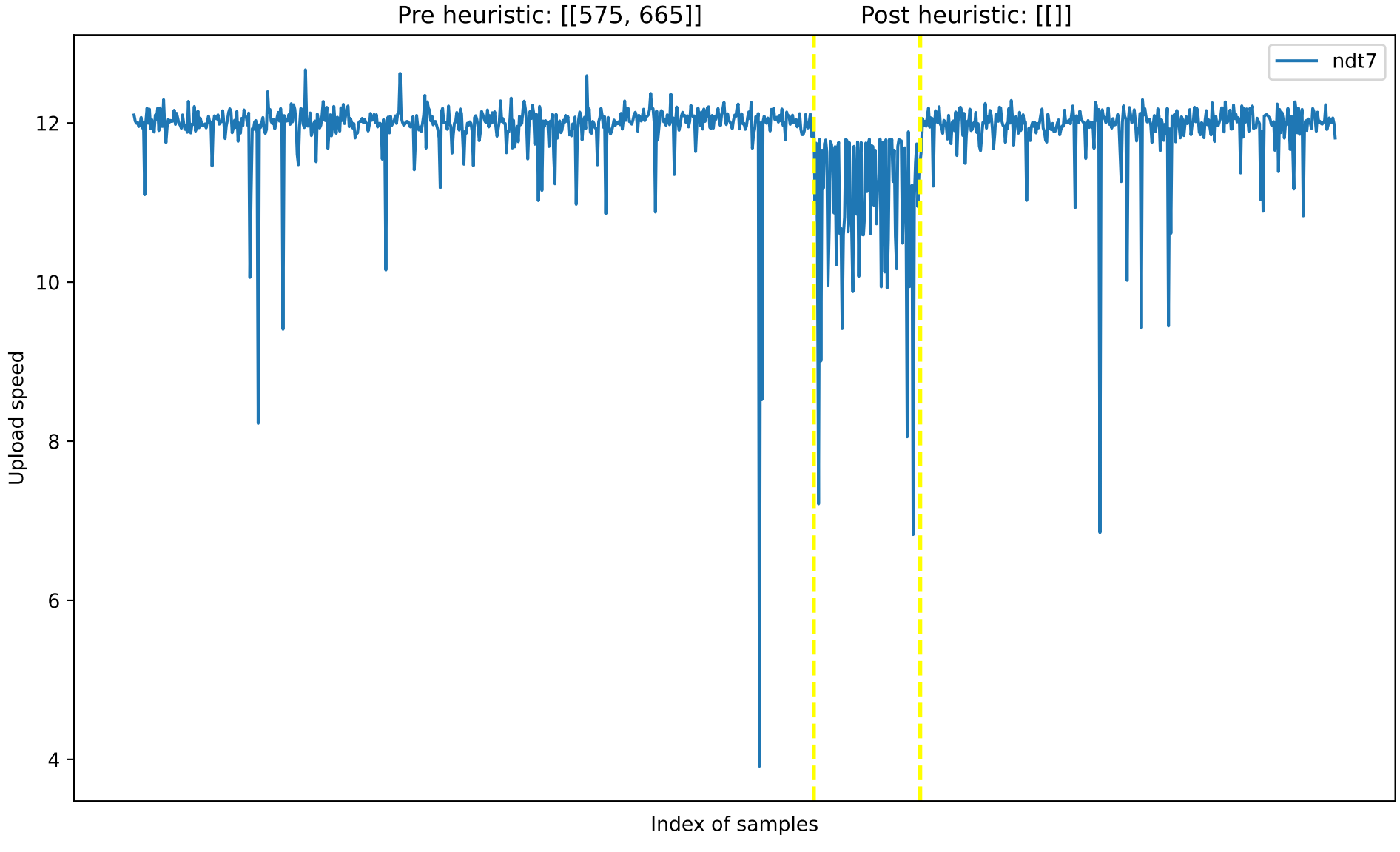

Pre heuristic: [[580, 715, 845]]
Post heuristic: [[845]]
ndt7
Upload speed
40
35
30
25
20
15
10
845
Index of samples

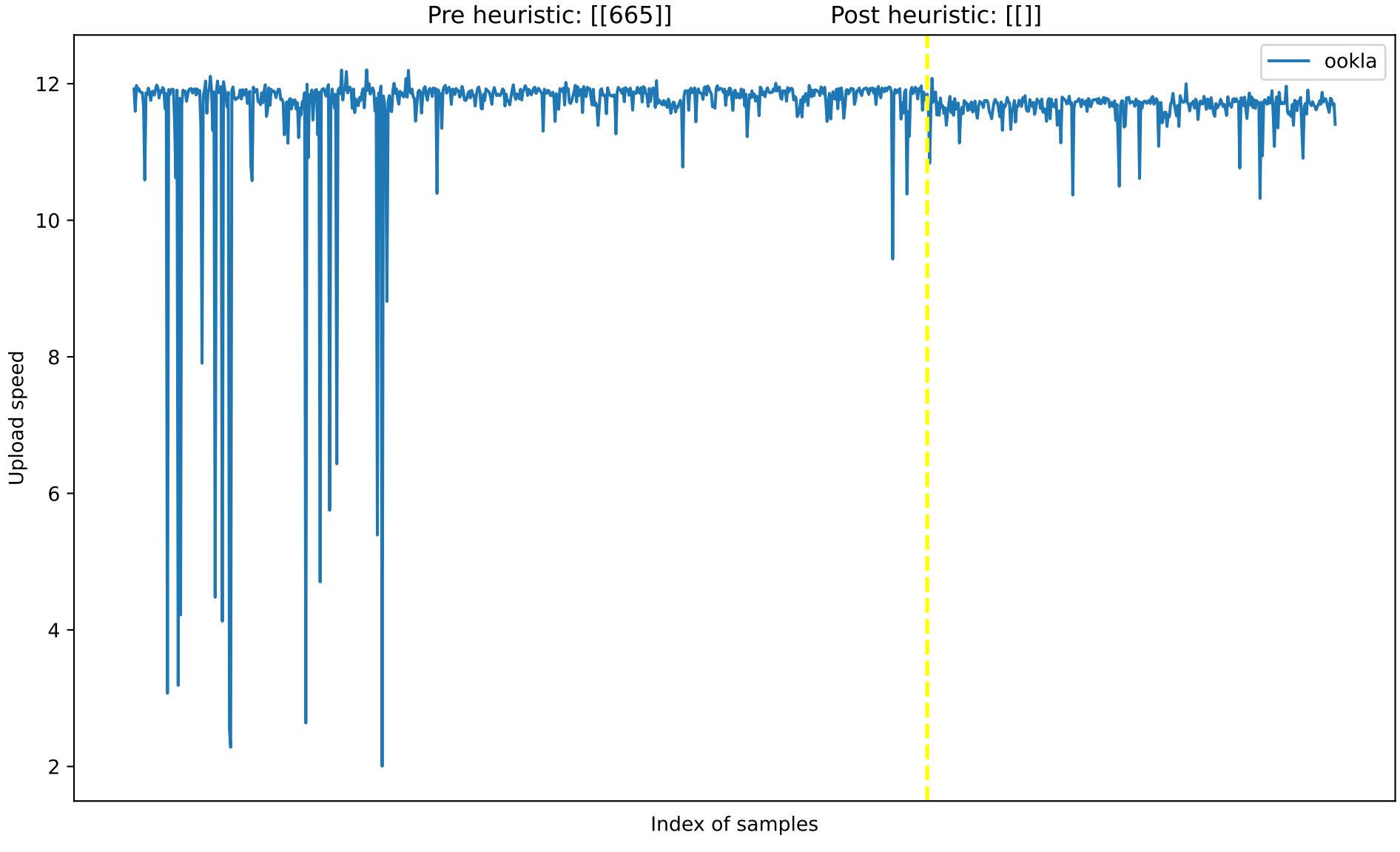

Pre heuristic: [[370, 430, 895]]
Post heuristic: [[895]]
ndt7
800
600
400
200
Download speed
895
Index of samples

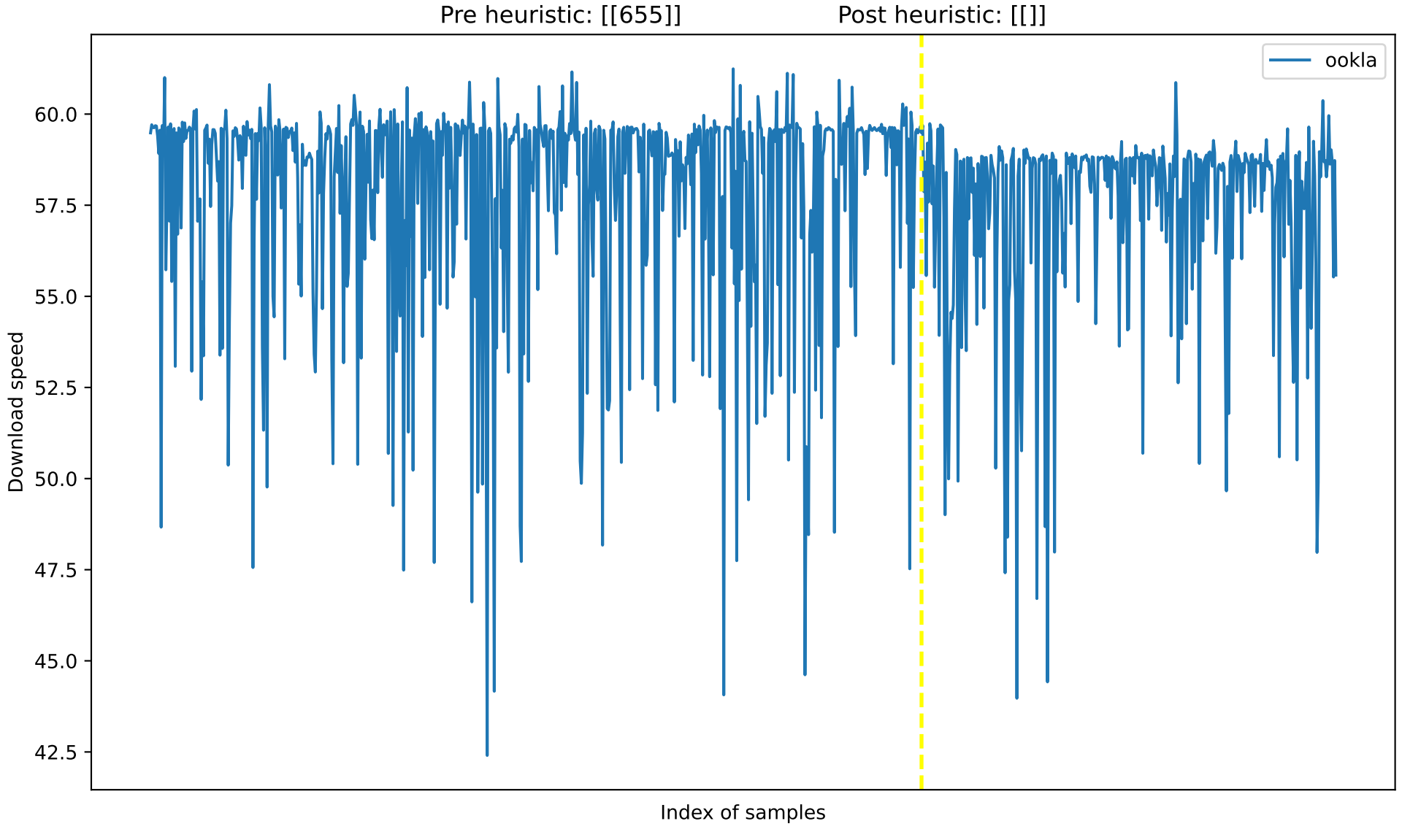

Pre heuristic: [[195, 660, 895]]
Post heuristic: [[895]]
ookla
Upload speed
40
35
30
25
20
15
10
5
895
Index of samples

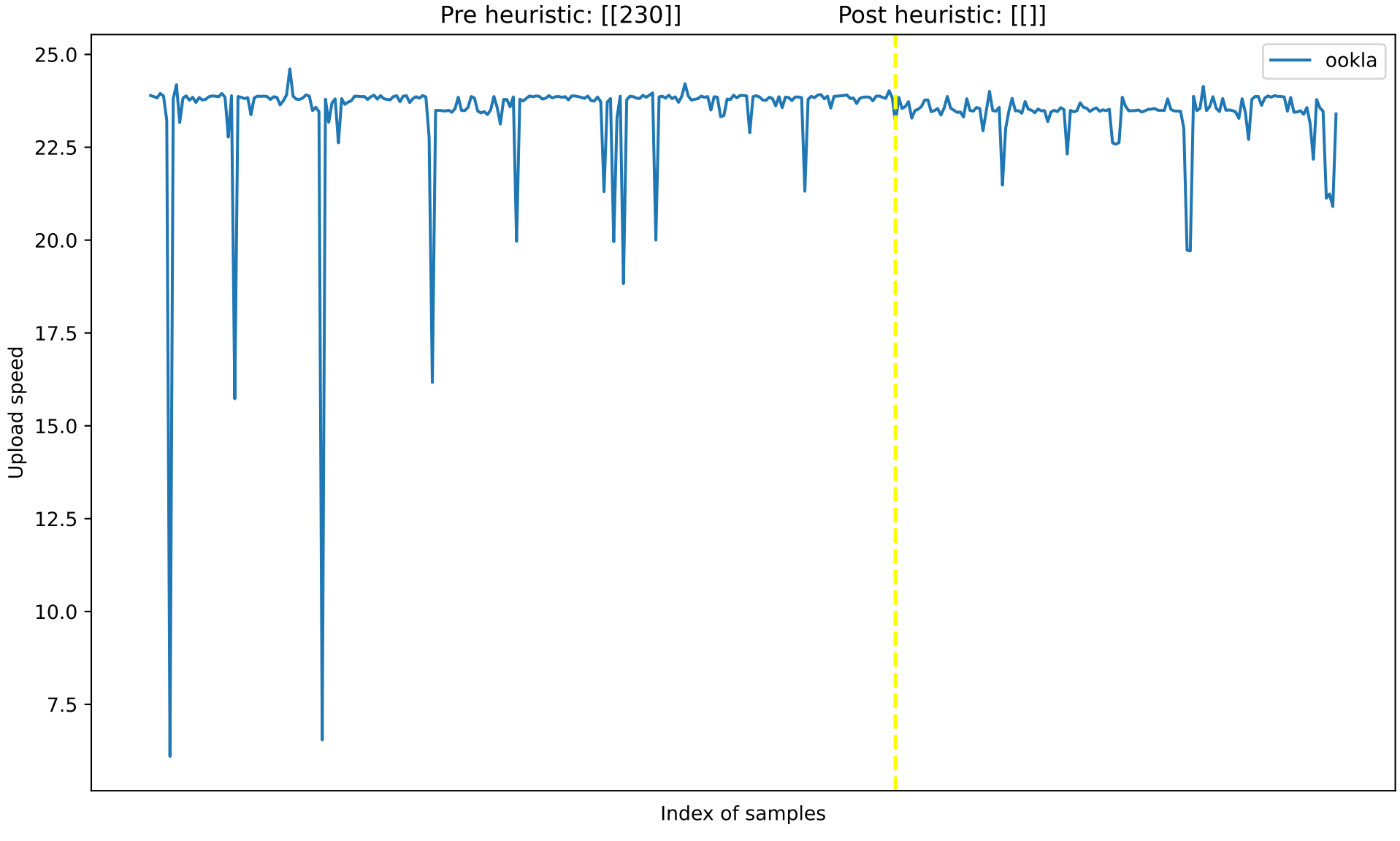

Pre heuristic: [[195, 890]]
Post heuristic: [[890]]
ookla
800
600
400
200
Download speed
890
Index of samples

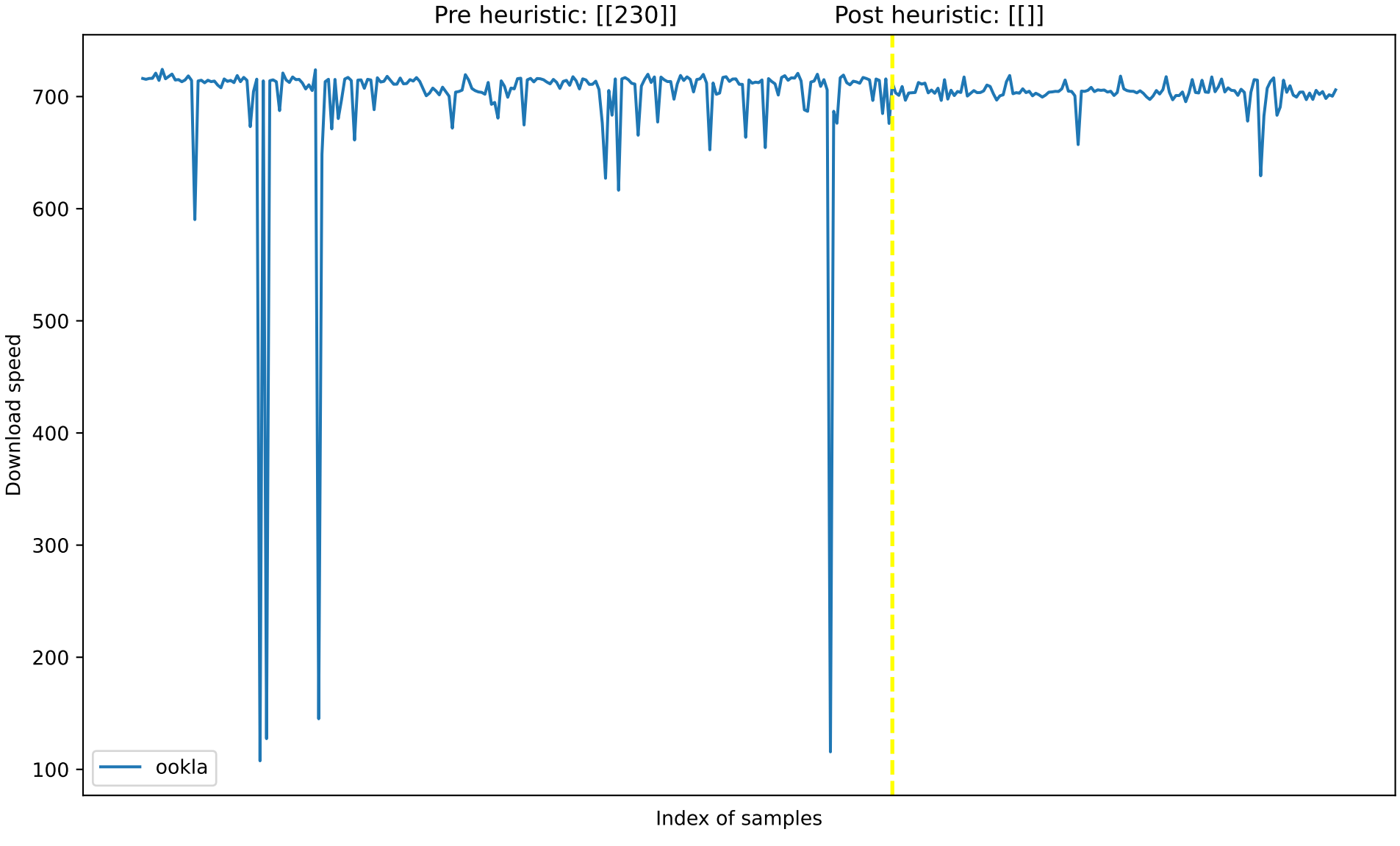

Pre heuristic: [[620]]
Post heuristic: [[]]
ndt7
13
12
11
10
9
Upload speed
Index of samples

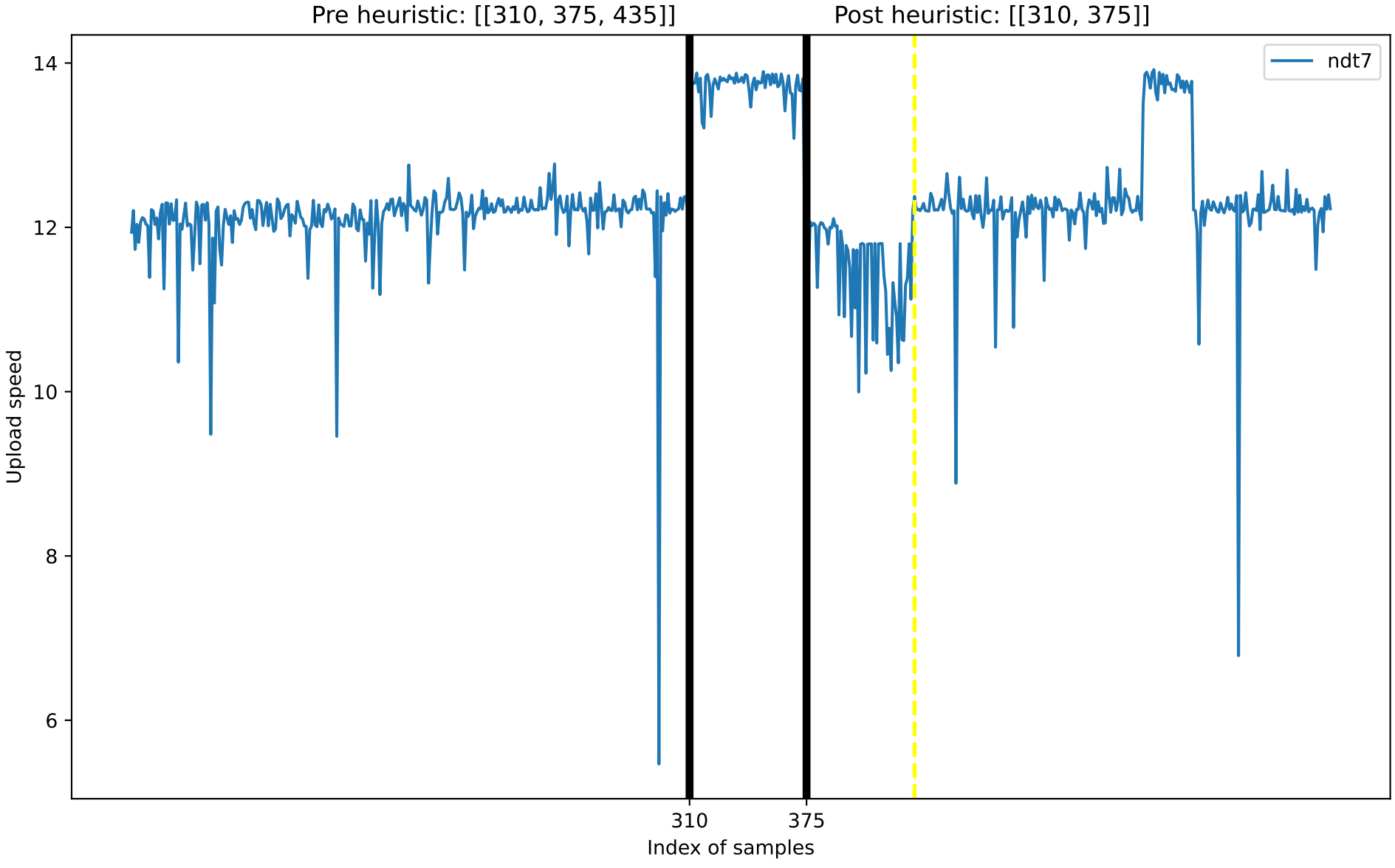

Pre heuristic: [[575, 665]]
Post heuristic: [[]]
ndt7
Upload speed
12
10
8
6
4
Index of samples

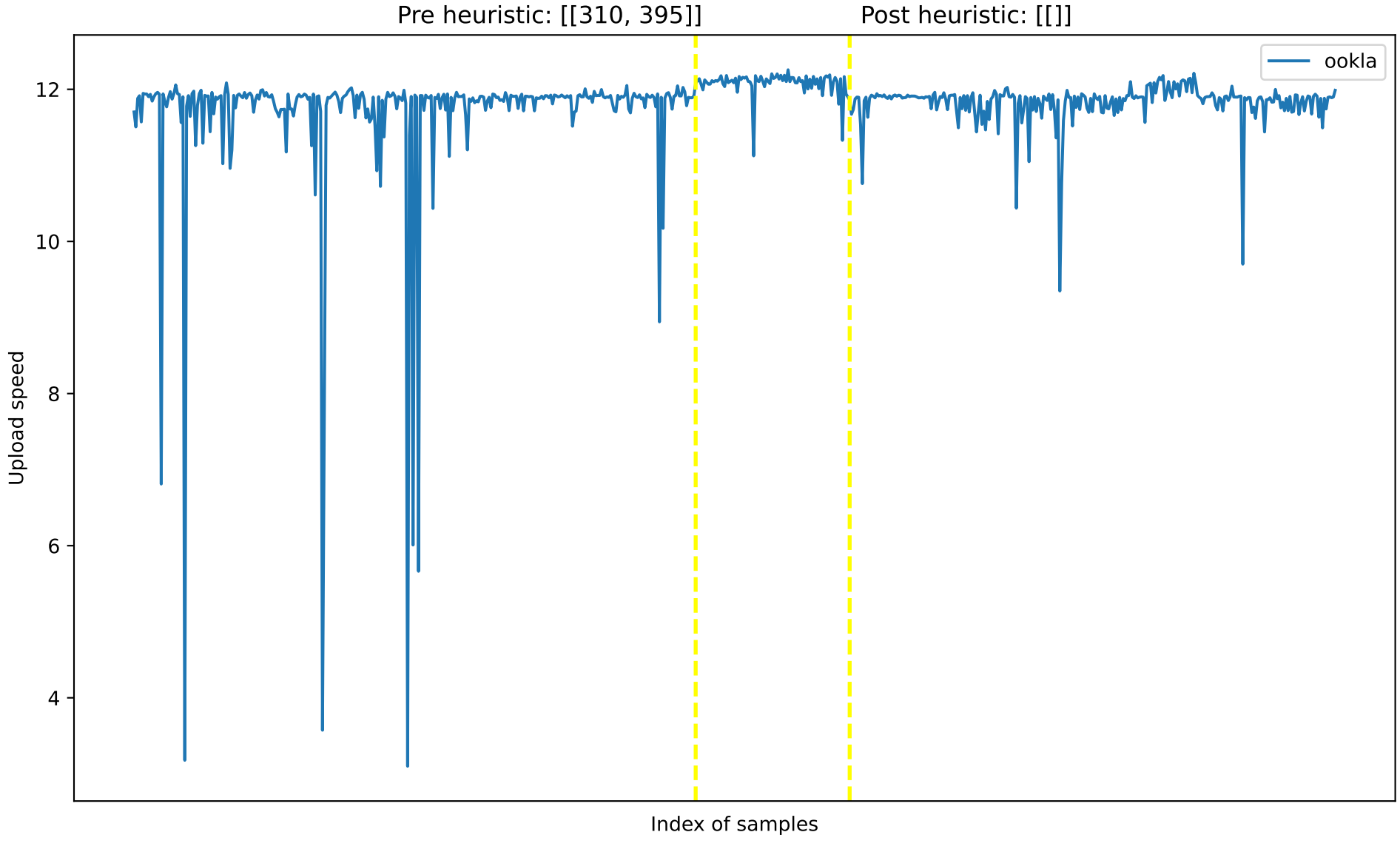

Pre heuristic: [[665]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

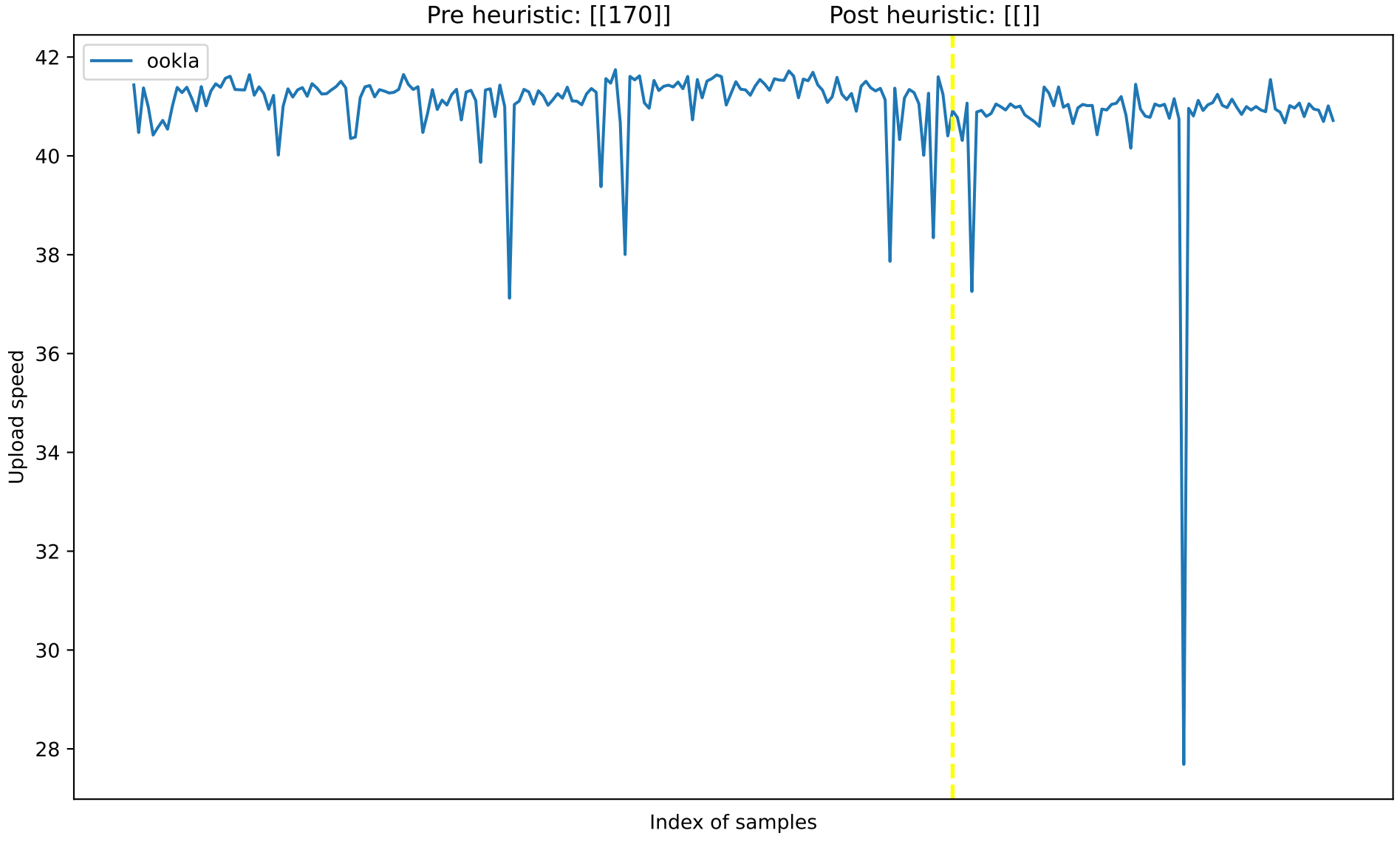

Pre heuristic: [[655]]
Post heuristic: [[]]
ookla
60.0
57.5
55.0
52.5
50.0
47.5
45.0
42.5
Download speed
Index of samples

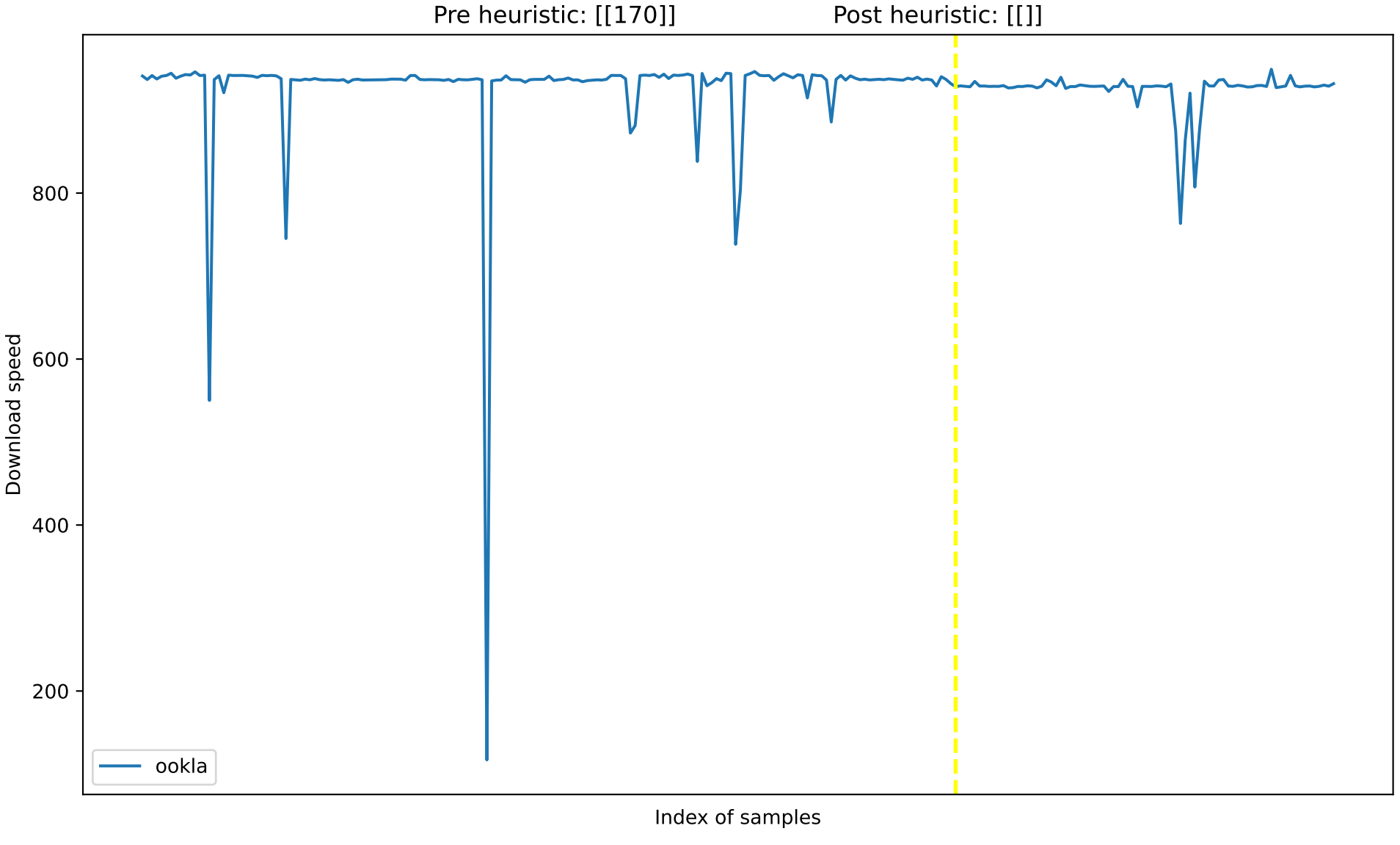

Pre heuristic: [[230]]
Post heuristic: [[]]
ookla
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
Upload speed
Index of samples

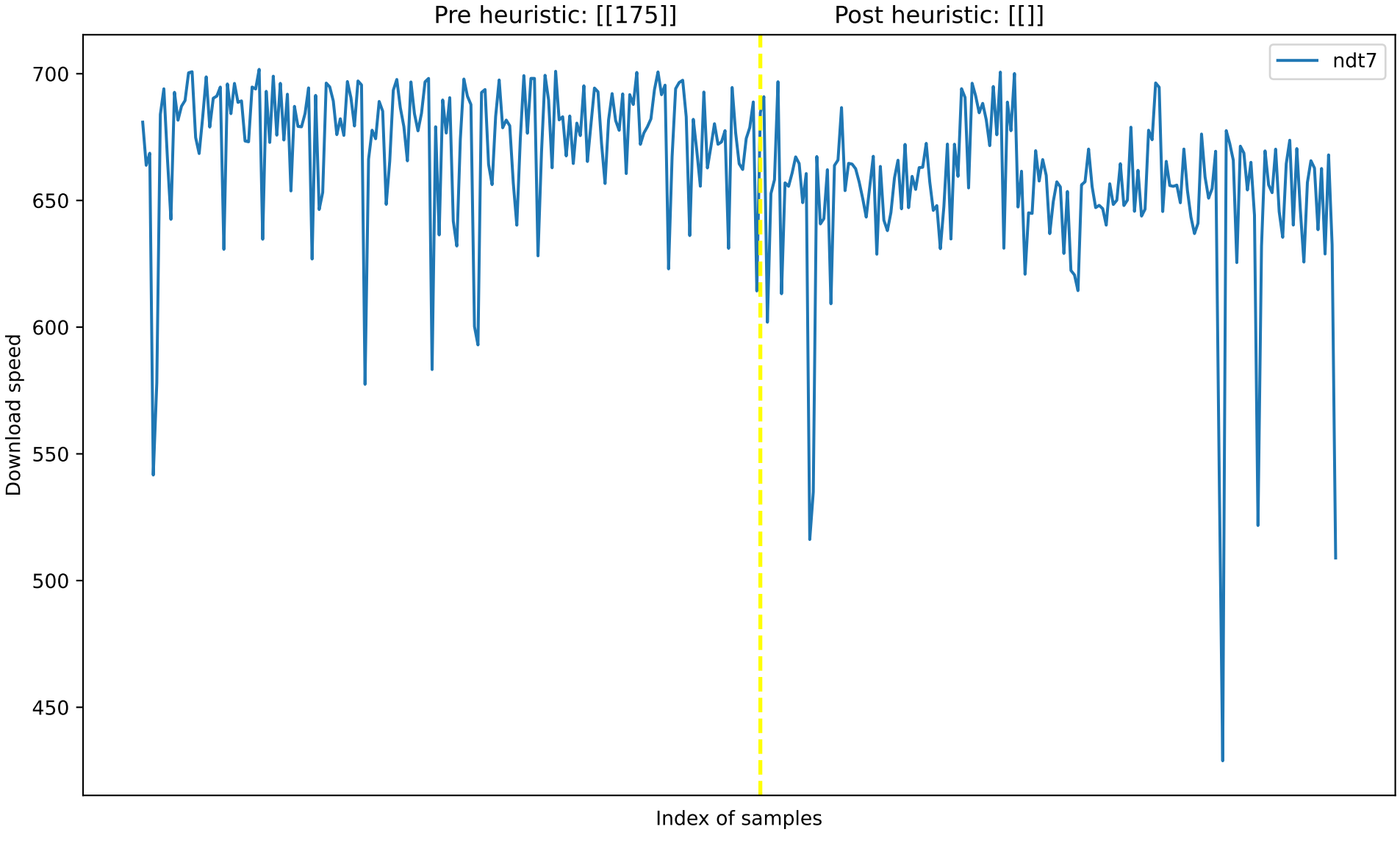

Pre heuristic: [[230]]
Post heuristic: [[]]
Download speed
700
600
500
400
300
200
100
ookla
Index of samples

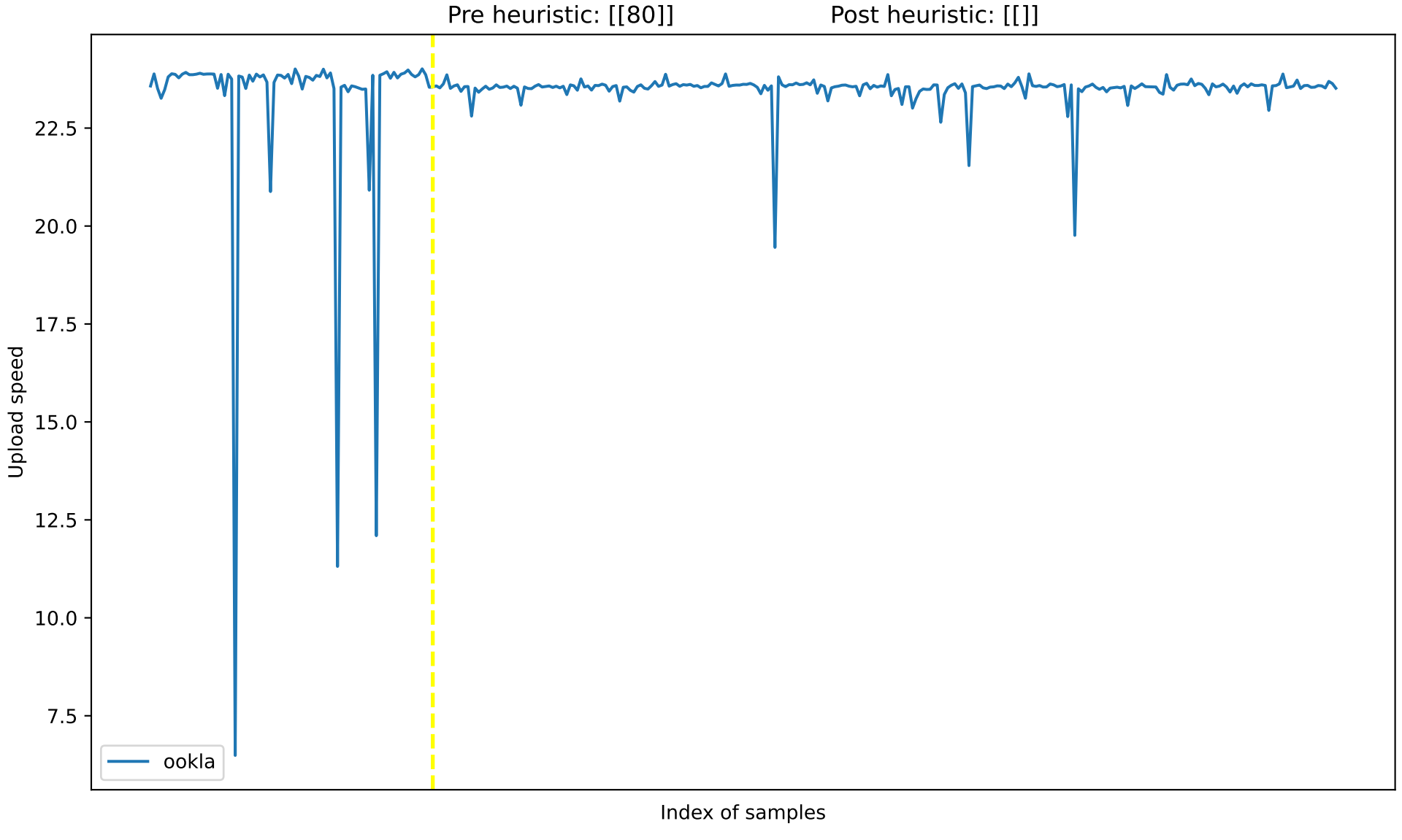

Pre heuristic: [[310, 375, 435]]
Post heuristic: [[310, 375]]
ndt7
Upload speed
14
12
10
8
6
310
375
Index of samples

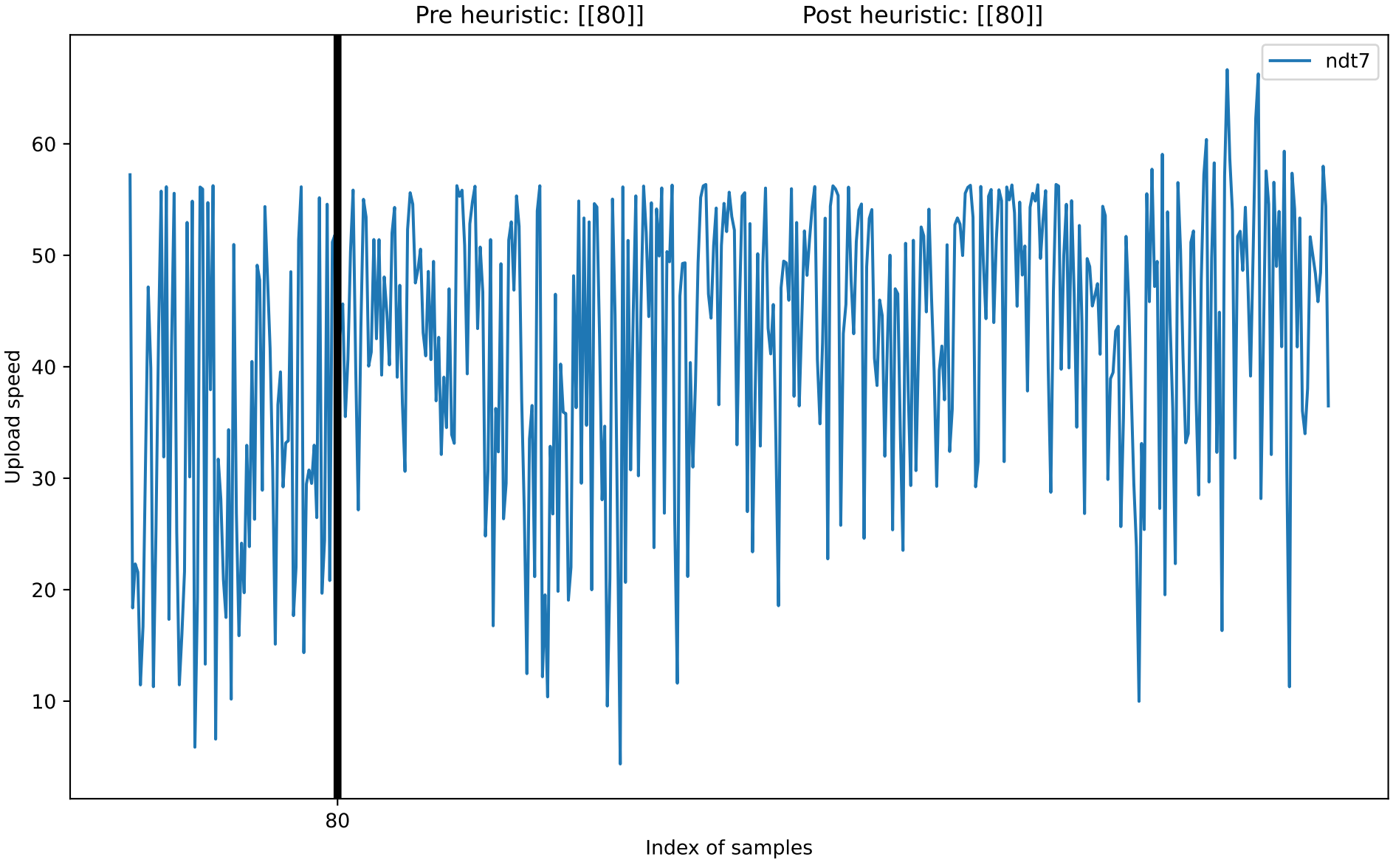

Pre heuristic: [[310, 395]]
Post heuristic: [[]]
ookla
Upload speed
12
10
8
6
4
Index of samples

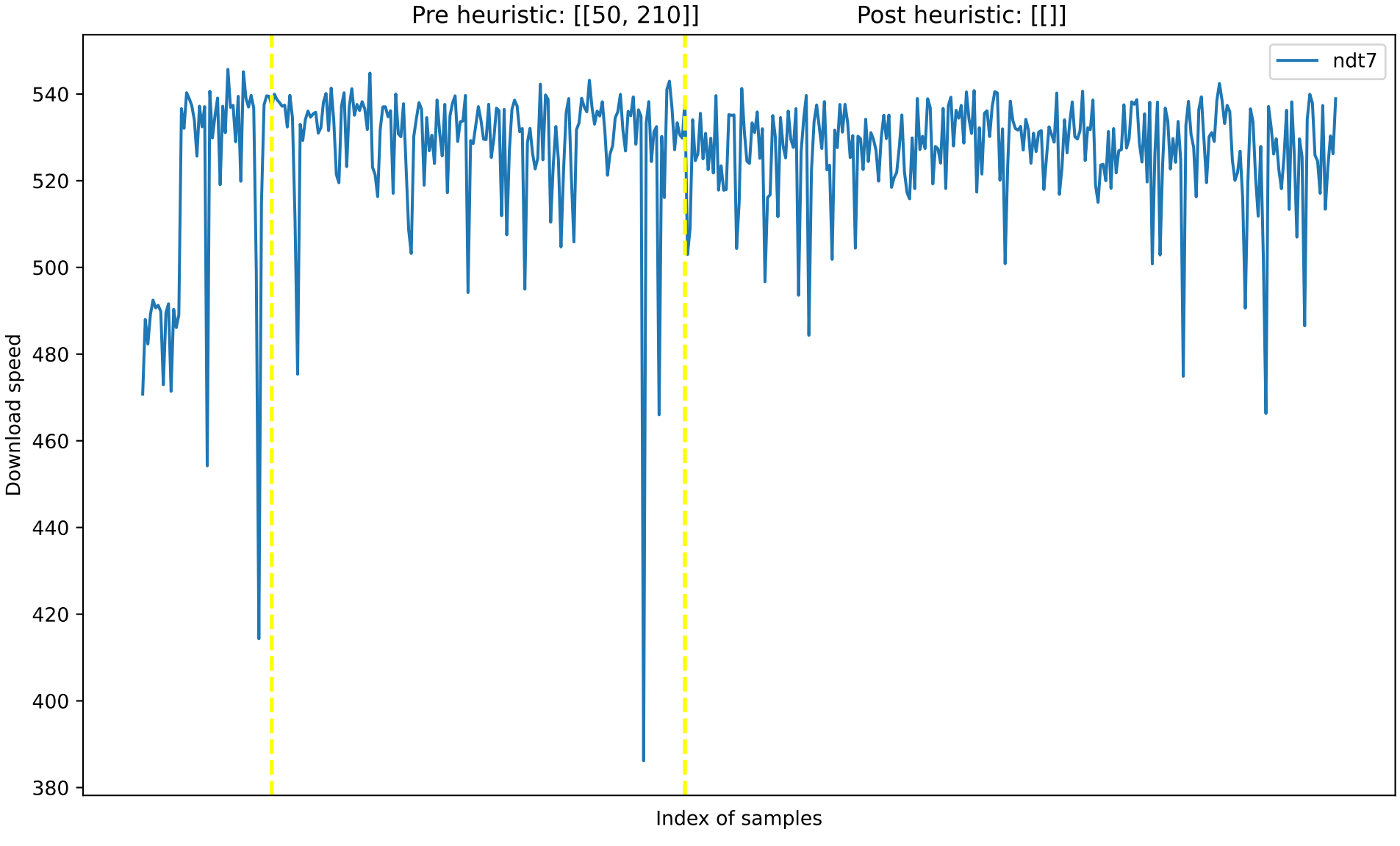

Pre heuristic: [[170]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
42
40
38
36
34
32
30
28

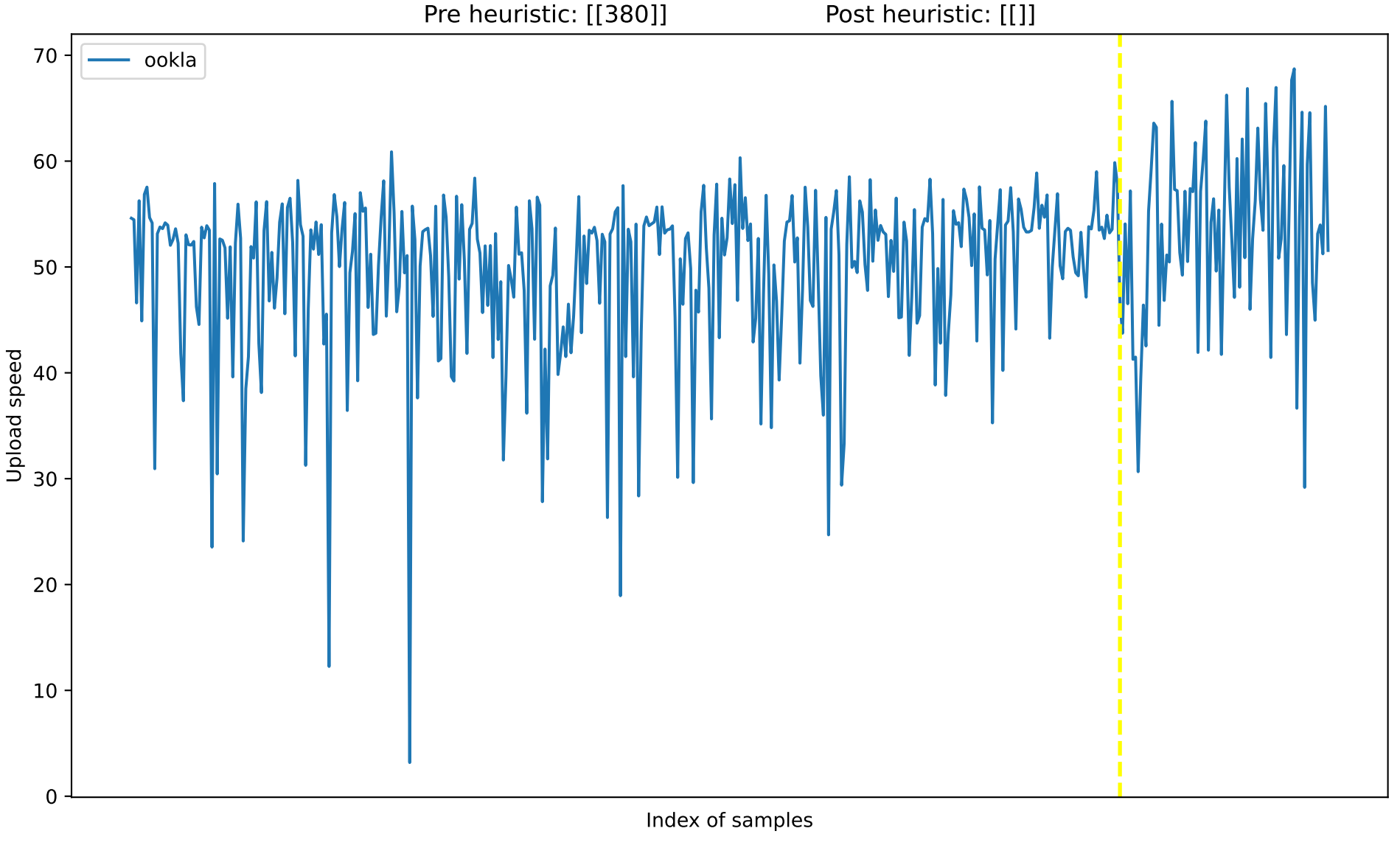

Pre heuristic: [[170]]
Post heuristic: [[]]
Download speed
800
600
400
200
ookla
Index of samples

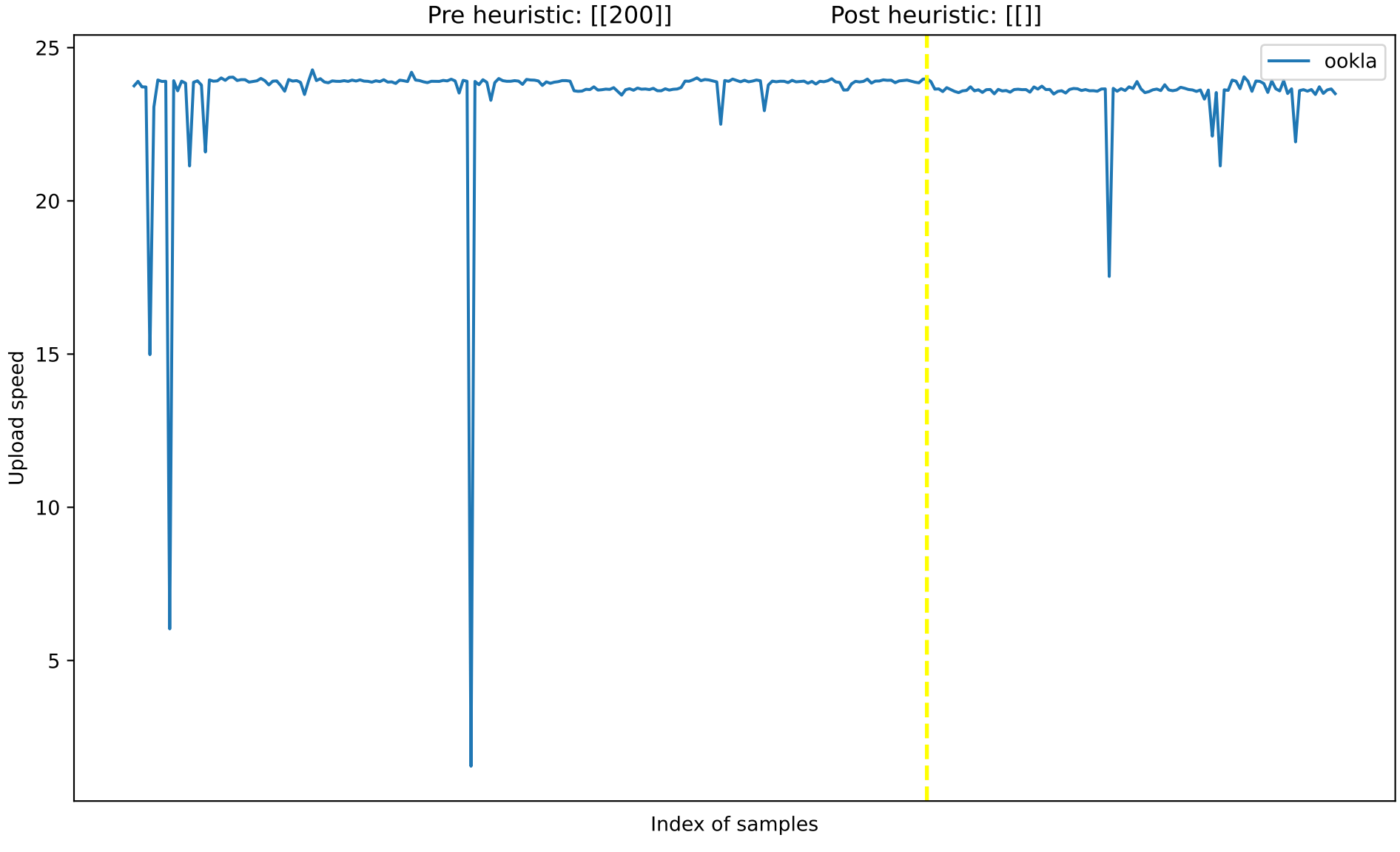

Pre heuristic: [[175]]
Post heuristic: [[]]
ndt7
700
650
600
550
500
450
Download speed
Index of samples

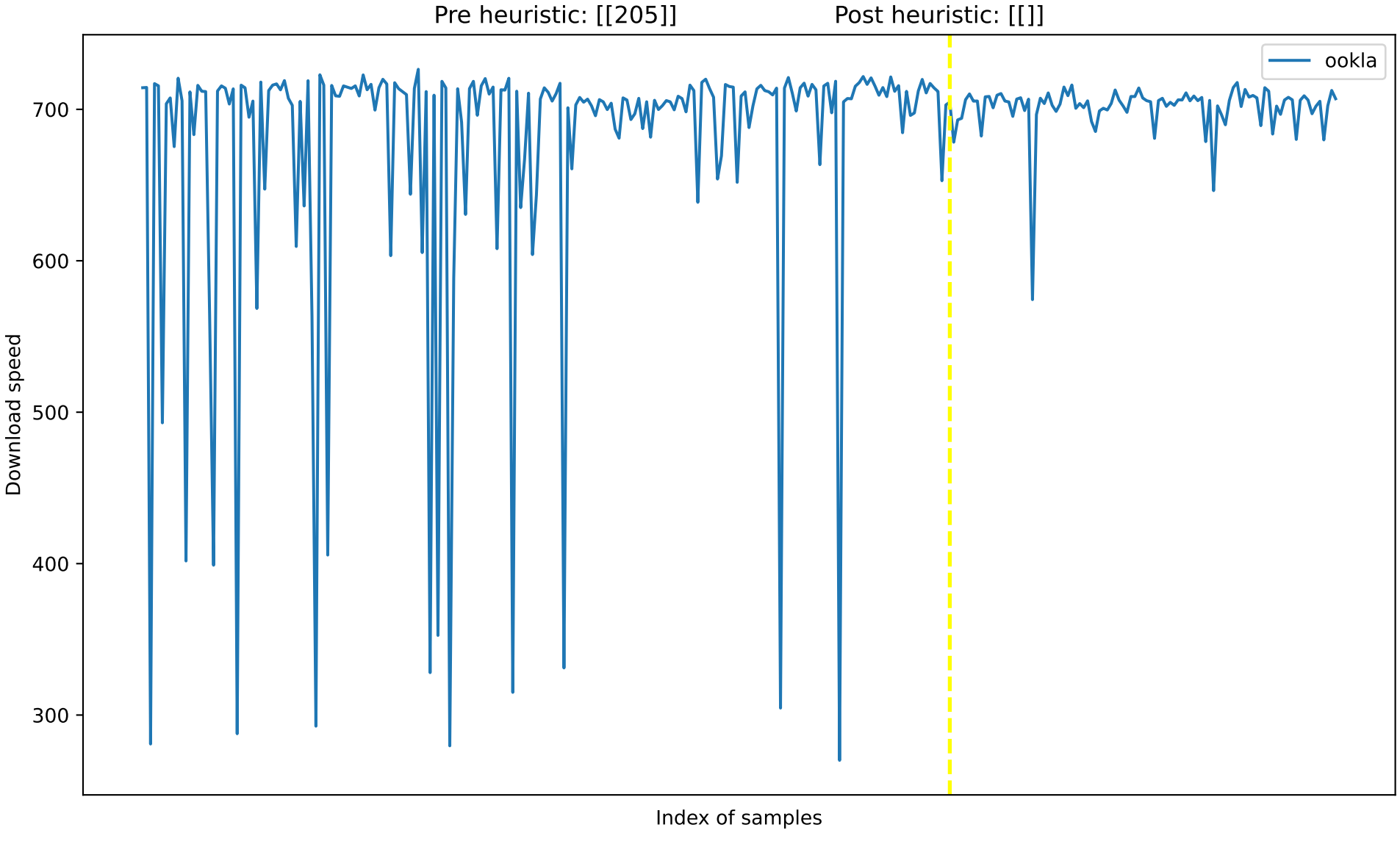

Pre heuristic: [[80]]
Post heuristic: [[]]
Upload speed
22.5
20.0
17.5
15.0
12.5
10.0
7.5
ookla
Index of samples

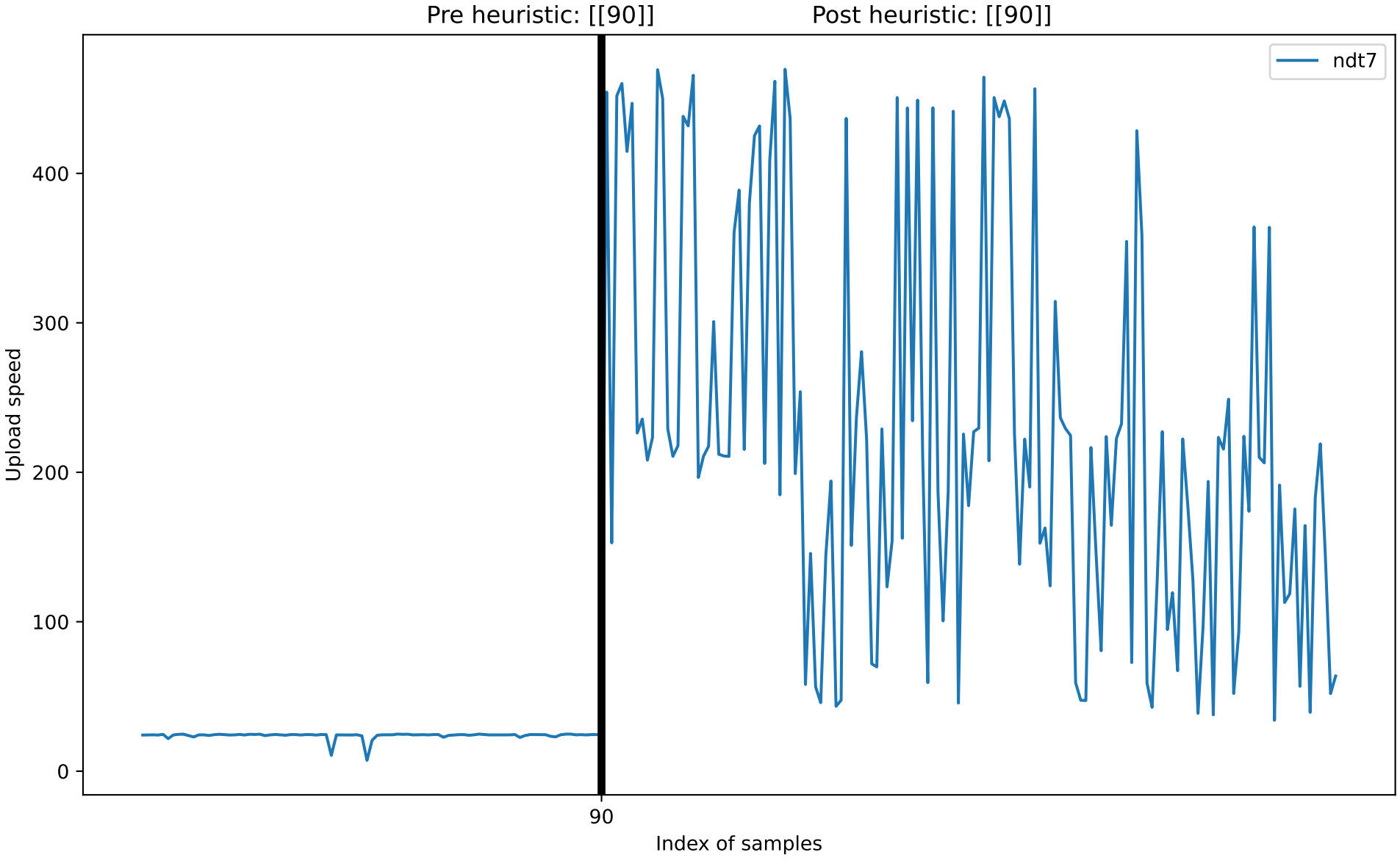

Pre heuristic: [[80]]
Post heuristic: [[80]]
ndt7
Upload speed
60
50
40
30
20
10
80
Index of samples

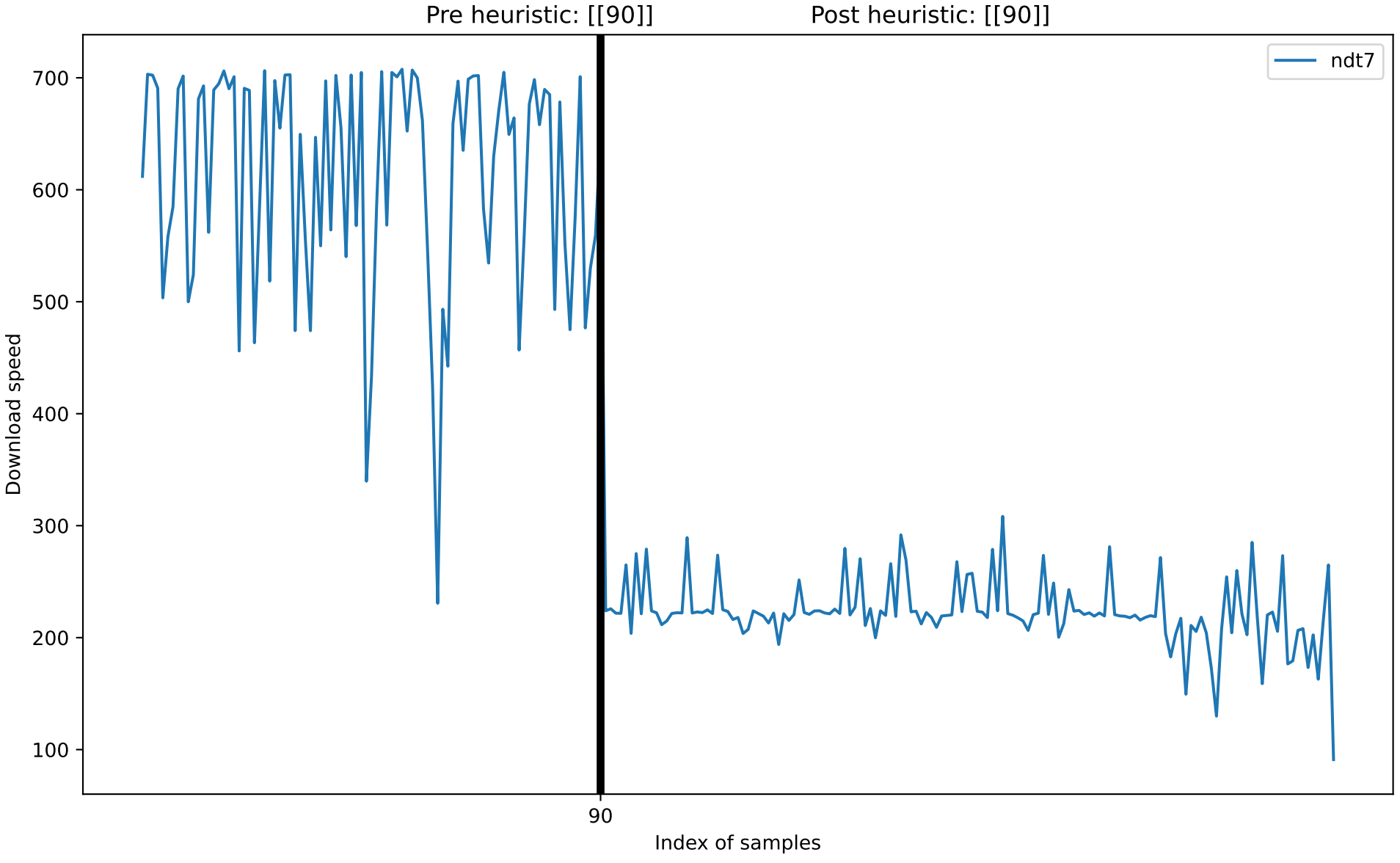

Pre heuristic: [[50, 210]]
Post heuristic: [[]]
ndt7
Download speed
Index of samples
540
520
500
480
460
440
420
400
380

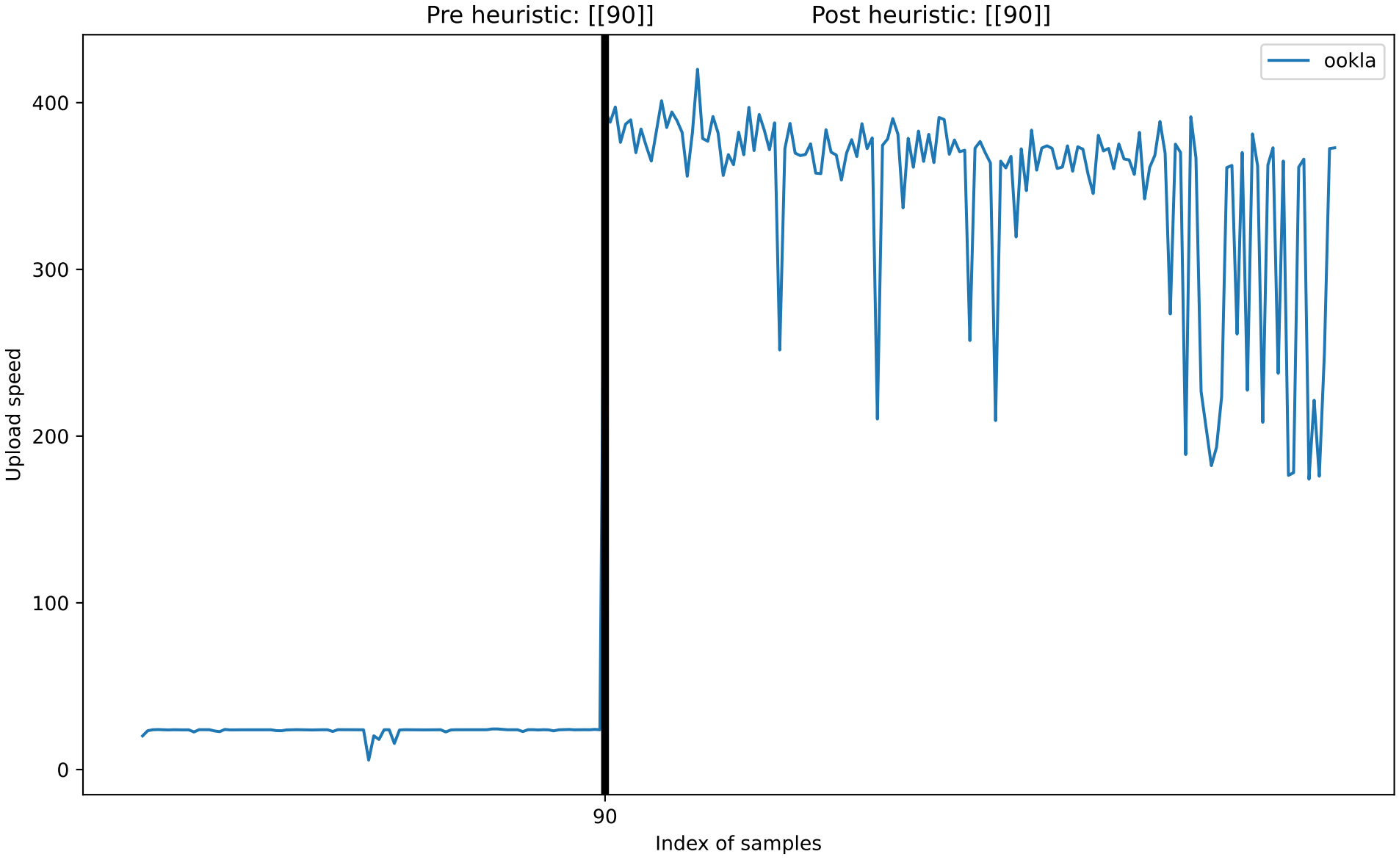

Pre heuristic: [[380]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
0
10
20
30
40
50
60
70

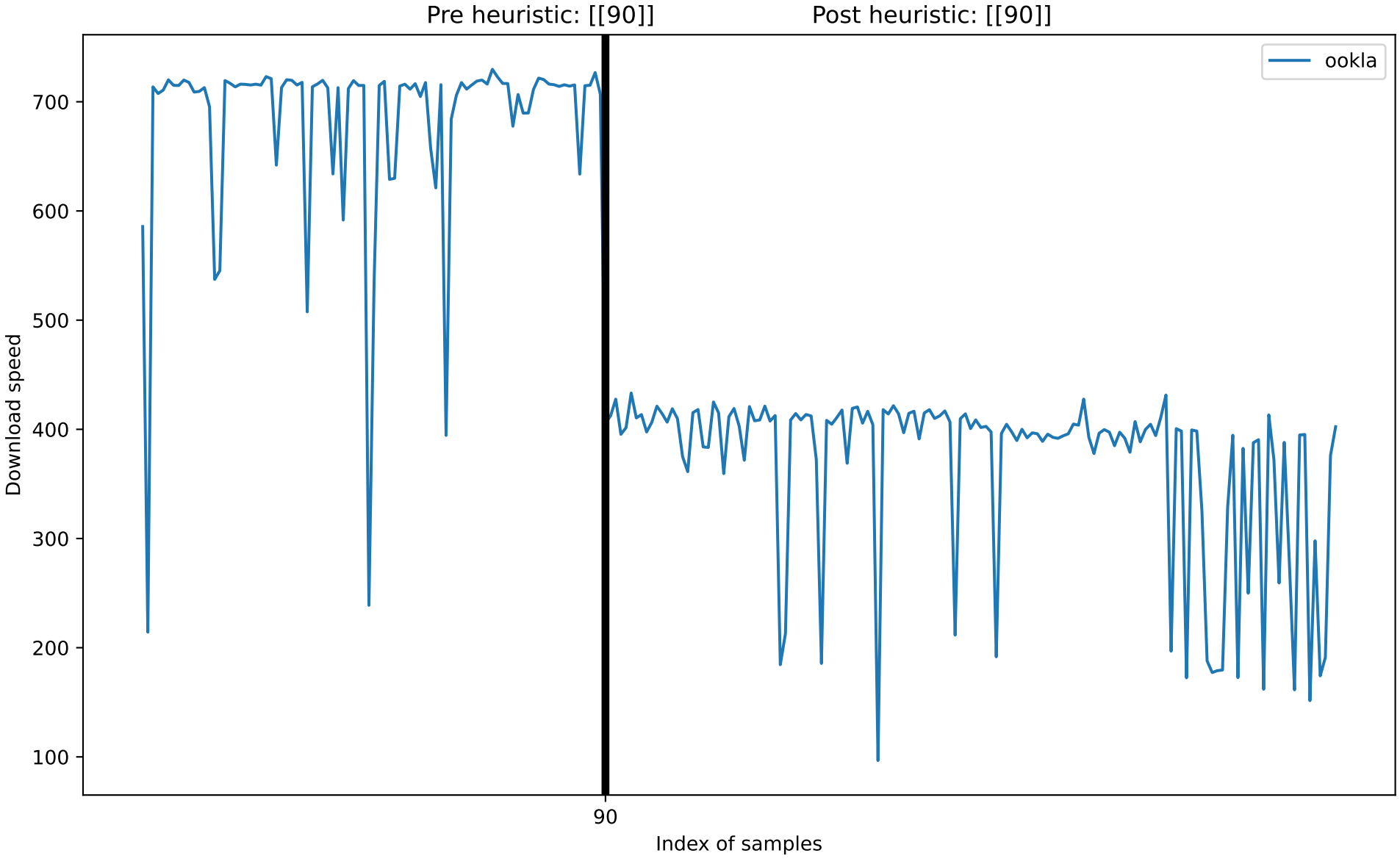

Pre heuristic: [[200]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
25
20
15
10
5

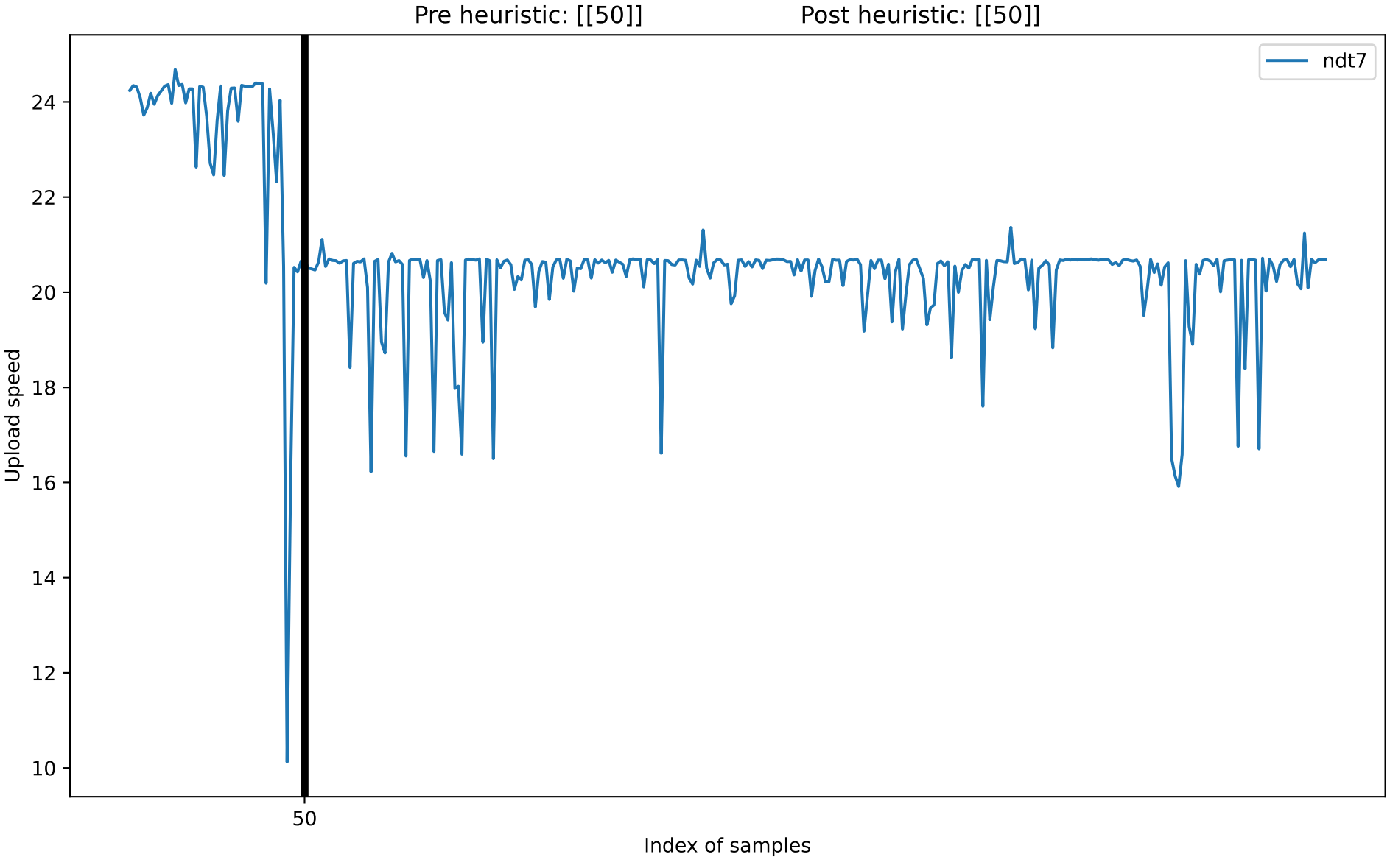

Pre heuristic: [[205]]
Post heuristic: [[]]
ookla
700
600
500
400
300
Download speed
Index of samples

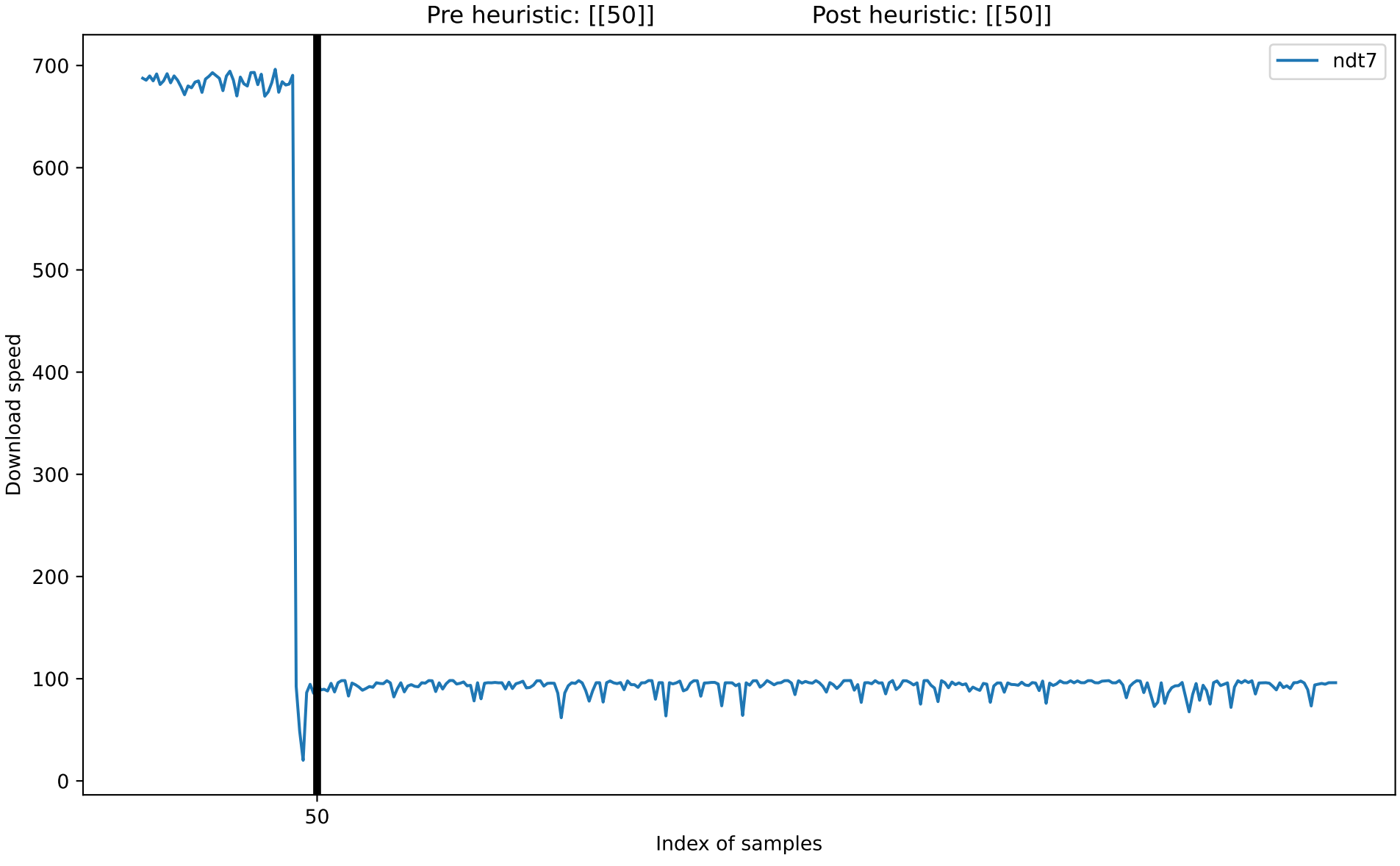

Pre heuristic: [[90]]
Post heuristic: [[90]]
ndt7
Upload speed
0
100
200
300
400
90
Index of samples

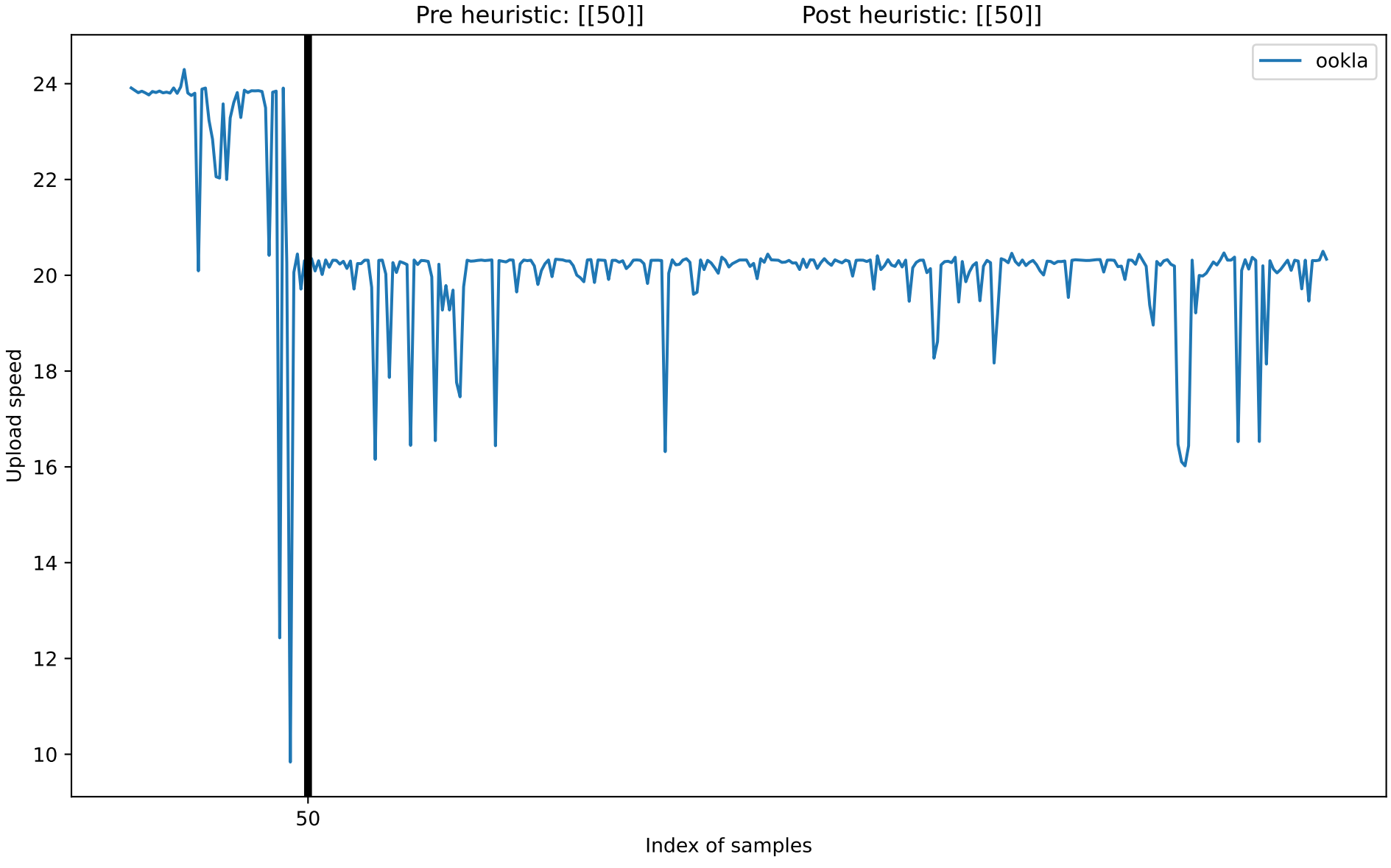

Pre heuristic: [[90]]
Post heuristic: [[90]]
ndt7
Download speed
700
600
500
400
300
200
100
90
Index of samples

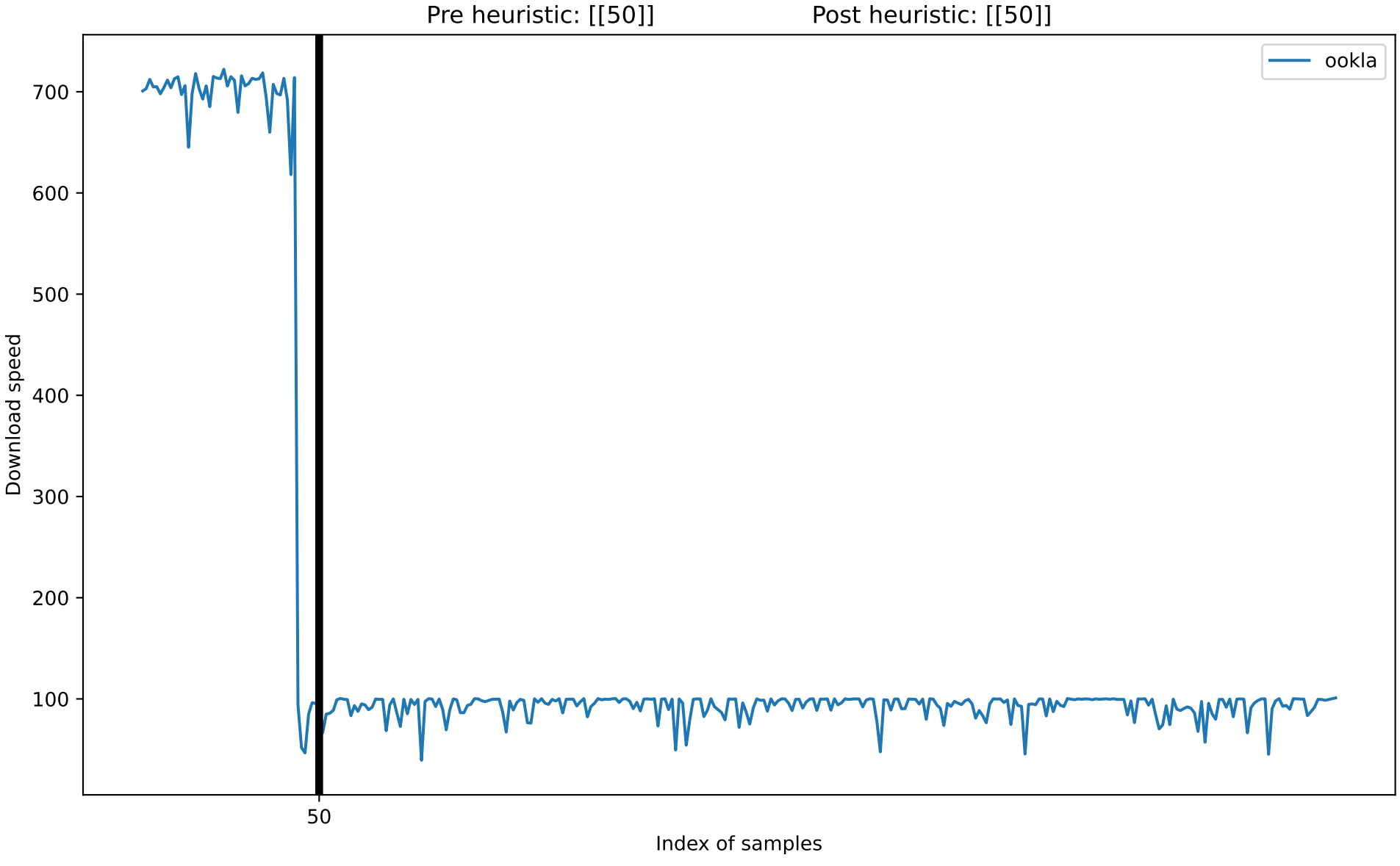

Pre heuristic: [[90]]
Post heuristic: [[90]]
ookla
Upload speed
400
300
200
100
0
90
Index of samples

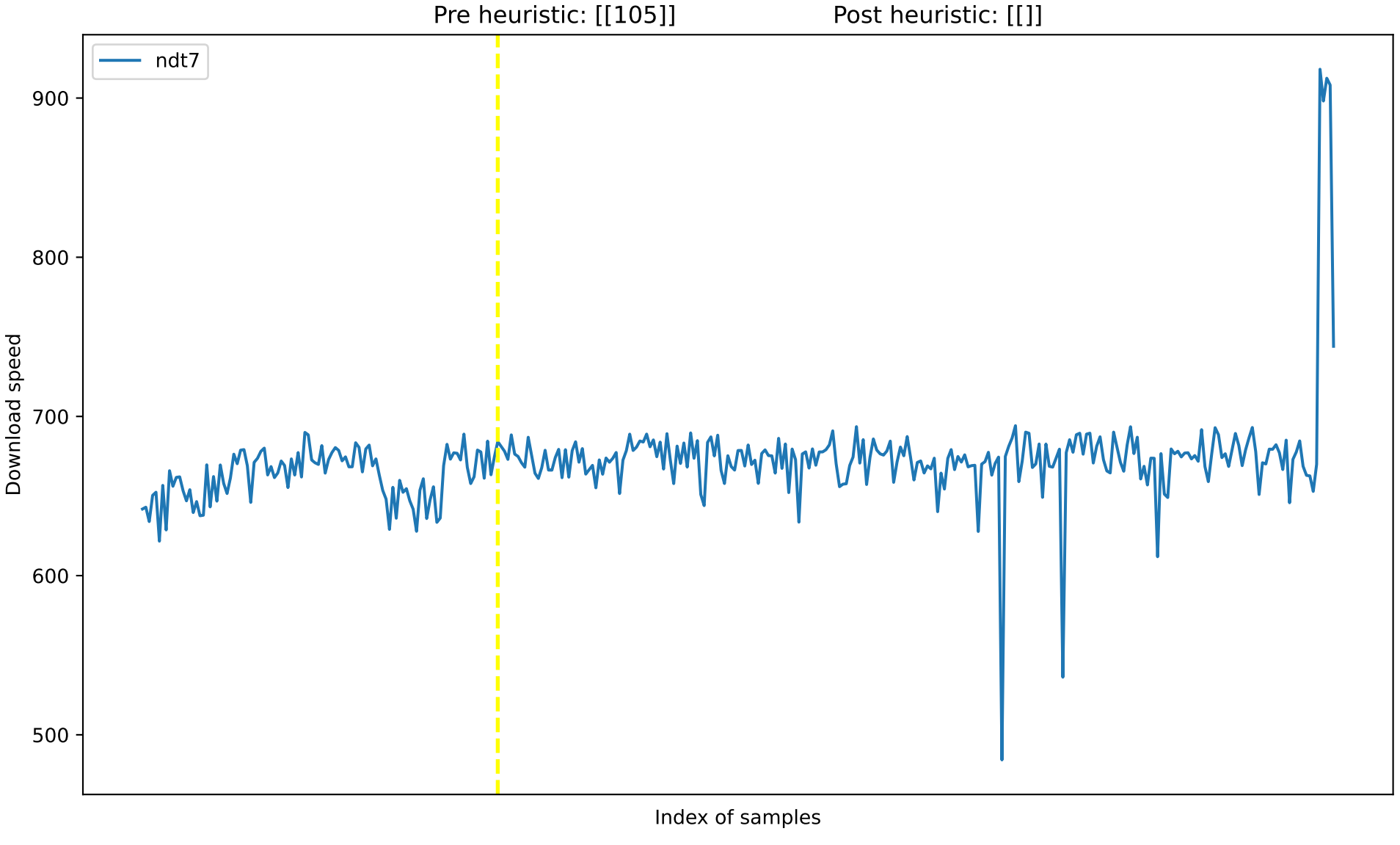

Pre heuristic: [[90]]
Post heuristic: [[90]]
ookla
Download speed
700
600
500
400
300
200
100
90
Index of samples

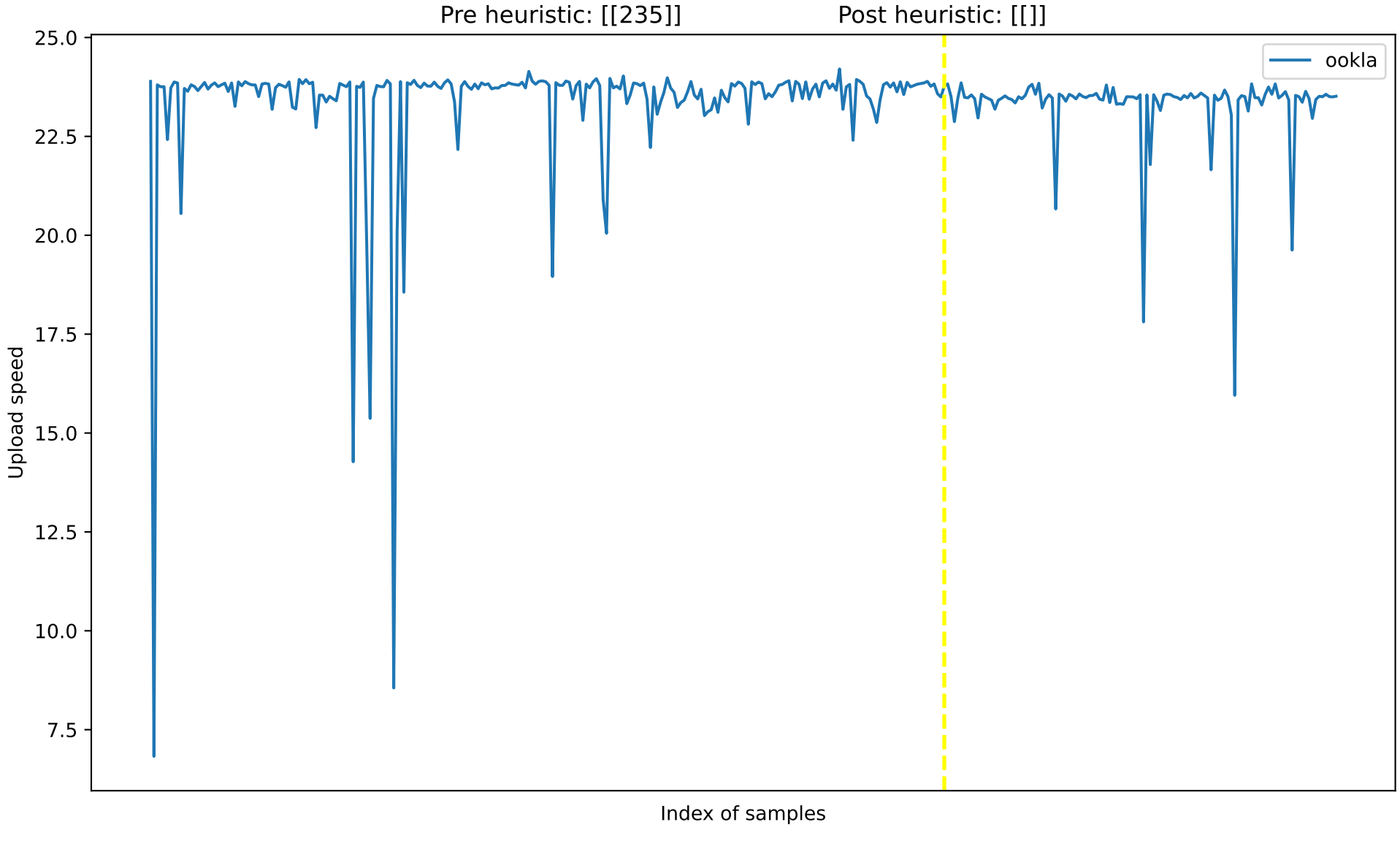

Pre heuristic: [[50]]
Post heuristic: [[50]]
ndt7
Upload speed
Index of samples
10
12
14
16
18
20
22
24
50

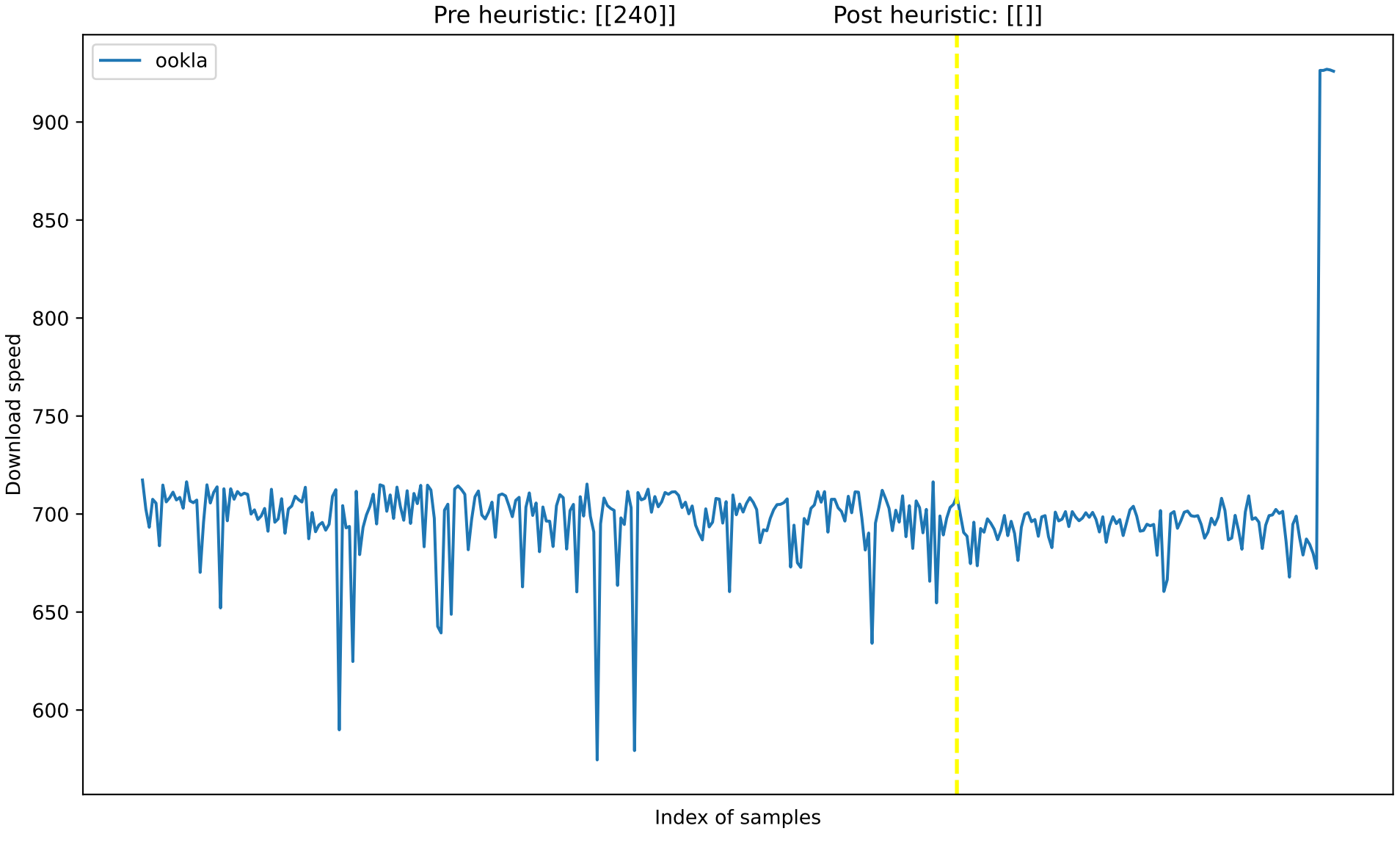

Pre heuristic: [[50]]
Post heuristic: [[50]]
ndt7
Download speed
Index of samples
0
100
200
300
400
500
600
700
50

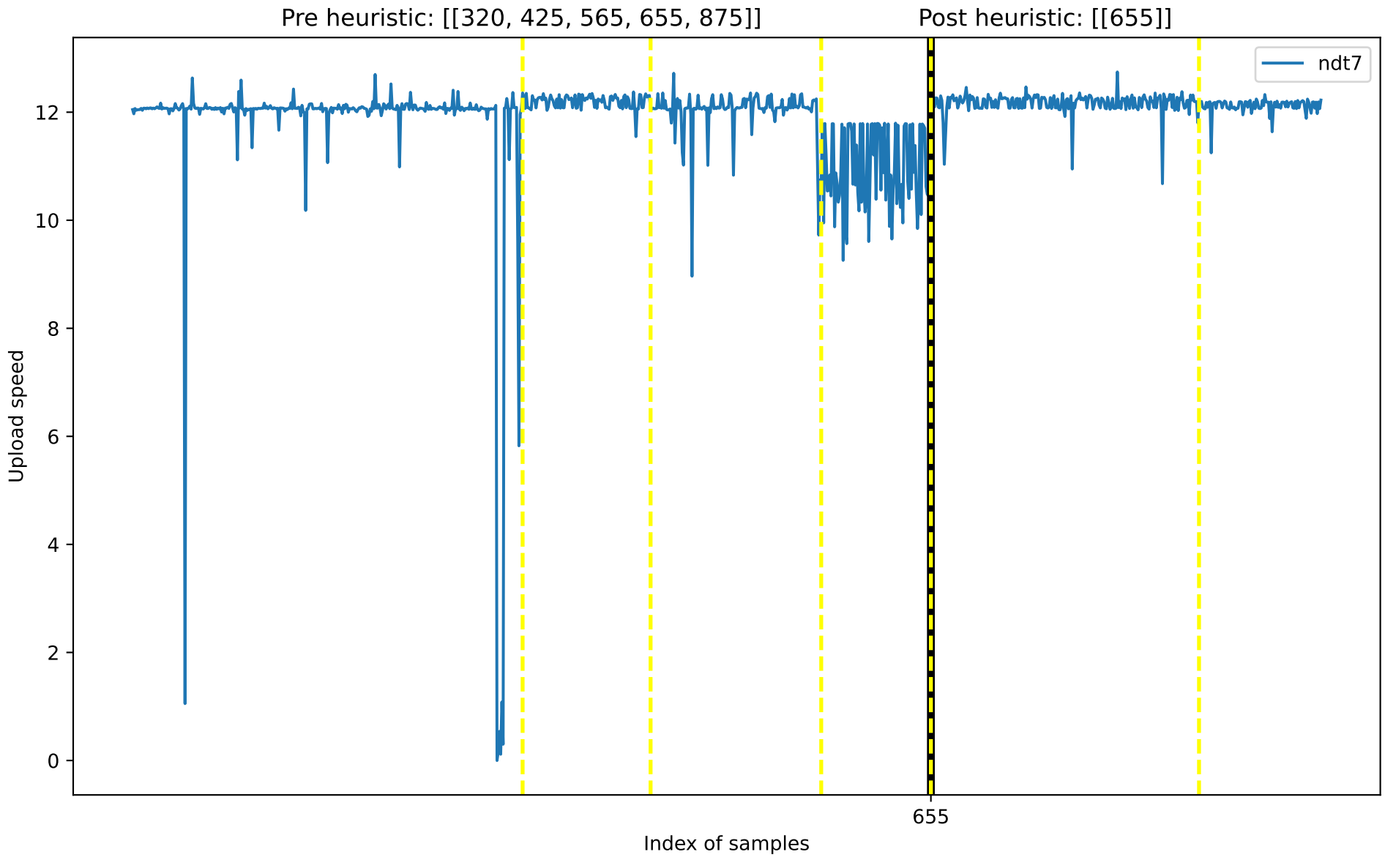

Pre heuristic: [[50]]
Post heuristic: [[50]]
ookla
Upload speed
24
22
20
18
16
14
12
10
50
Index of samples

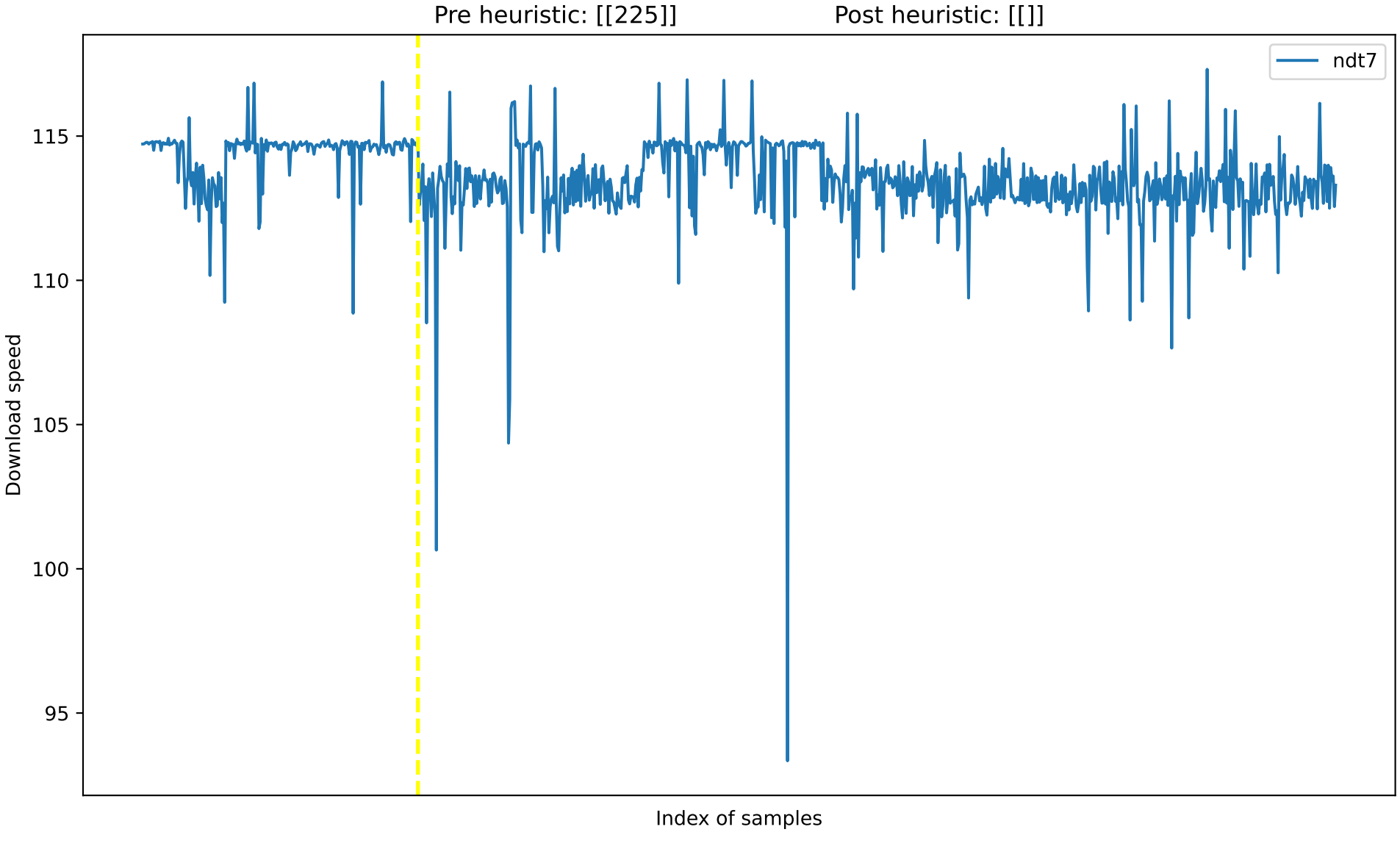

Pre heuristic: [[50]]
Post heuristic: [[50]]
ookla
Download speed
700
600
500
400
300
200
100
50
Index of samples

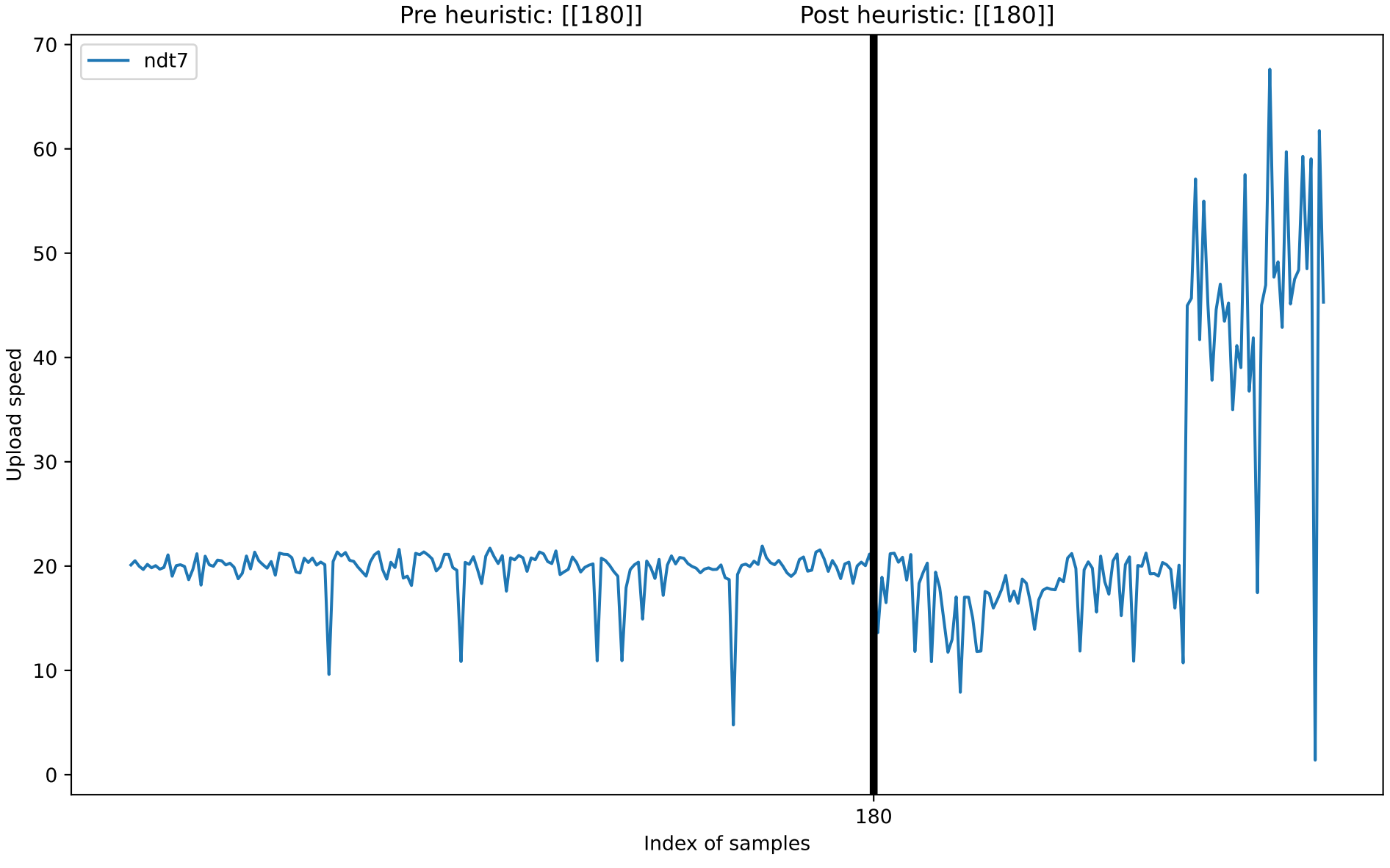

Pre heuristic: [[105]]
Post heuristic: [[]]
ndt7
900
800
700
600
500
Download speed
Index of samples

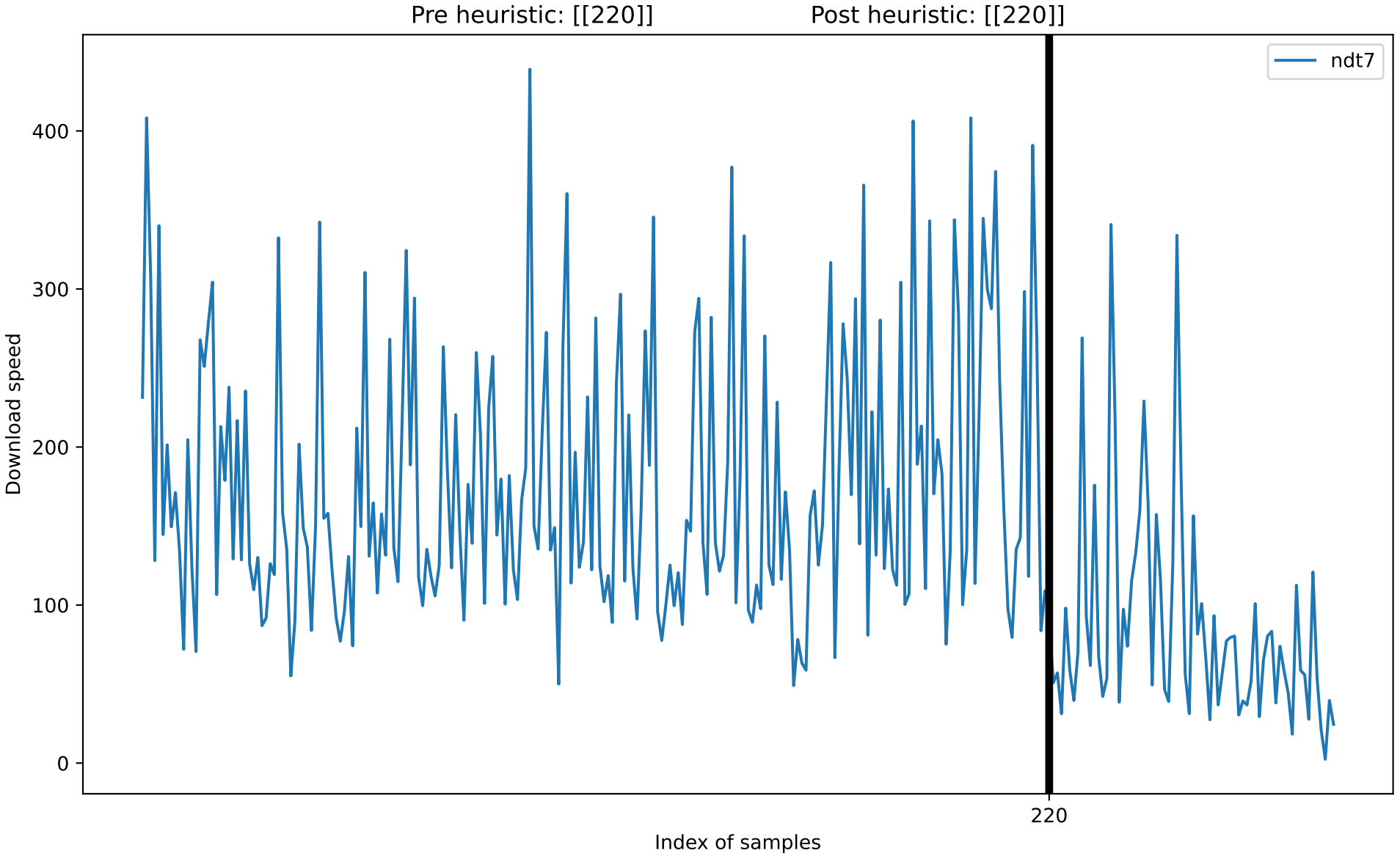

Pre heuristic: [[235]]
Post heuristic: [[]]
ookla
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
Upload speed
Index of samples

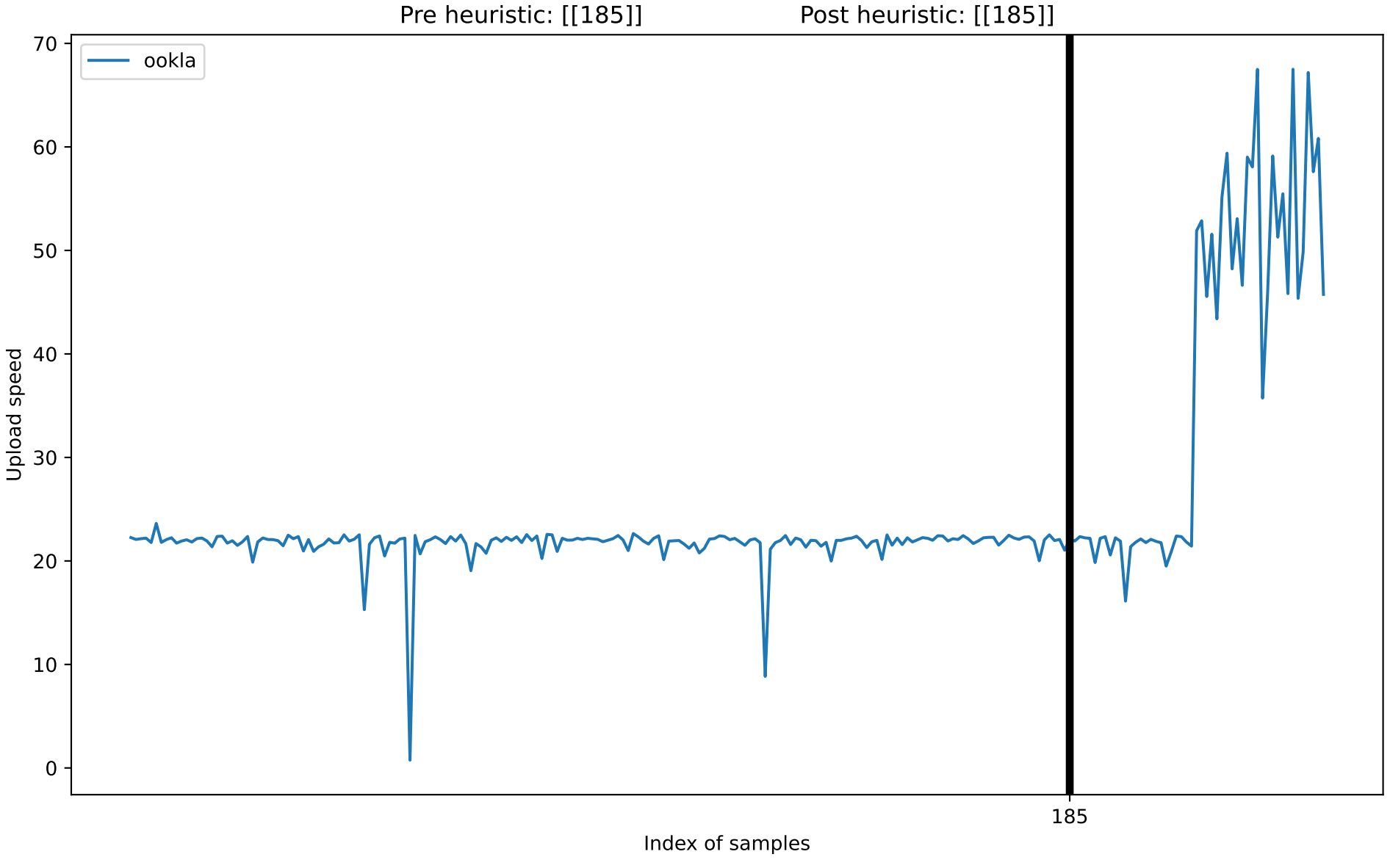

Pre heuristic: [[240]]
Post heuristic: [[]]
ookla
900
850
800
750
700
650
600
Download speed
Index of samples

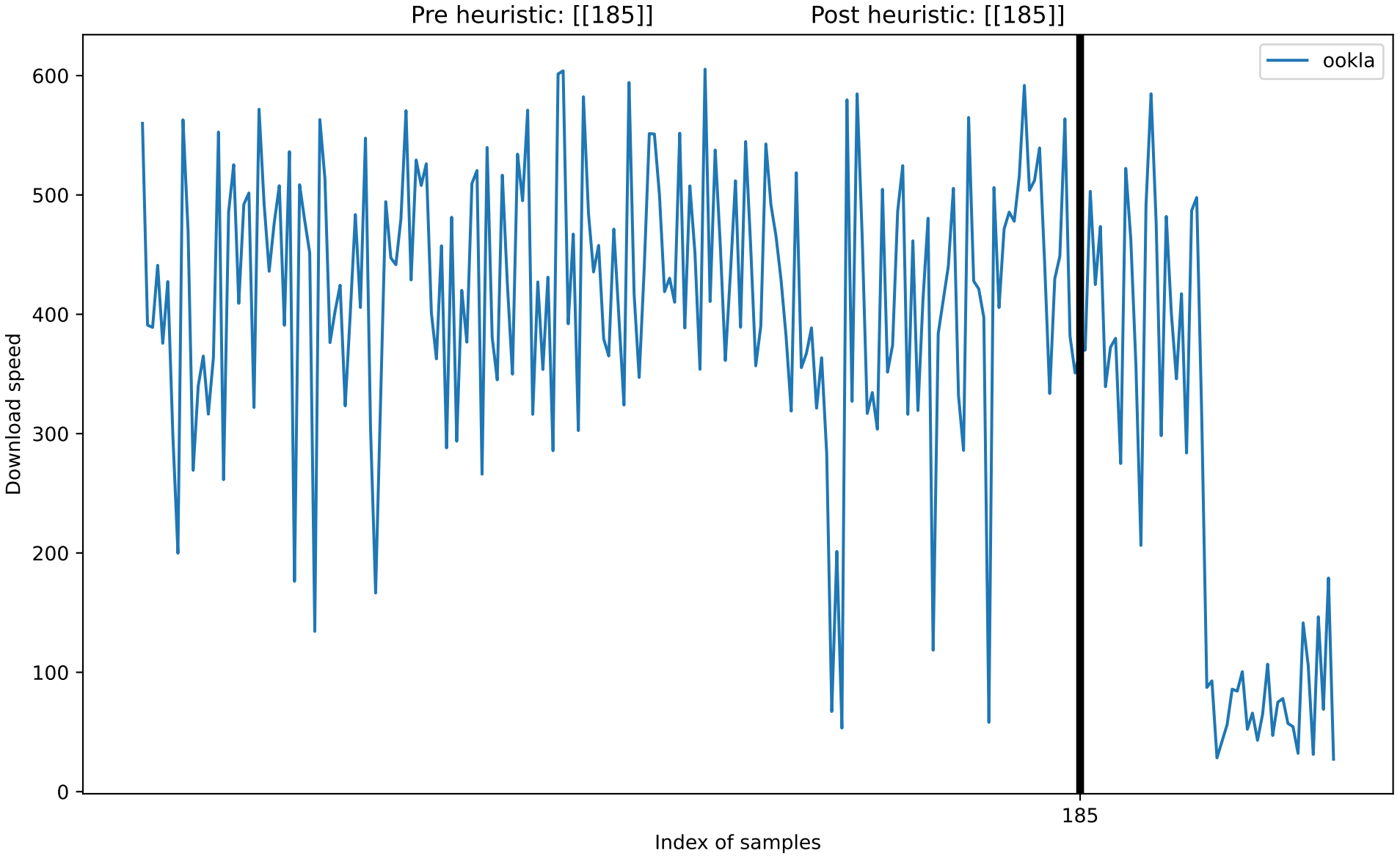

Pre heuristic: [[320, 425, 565, 655, 875]]
Post heuristic: [[655]]
ndt7
Upload speed
0
2
4
6
8
10
12
655
Index of samples

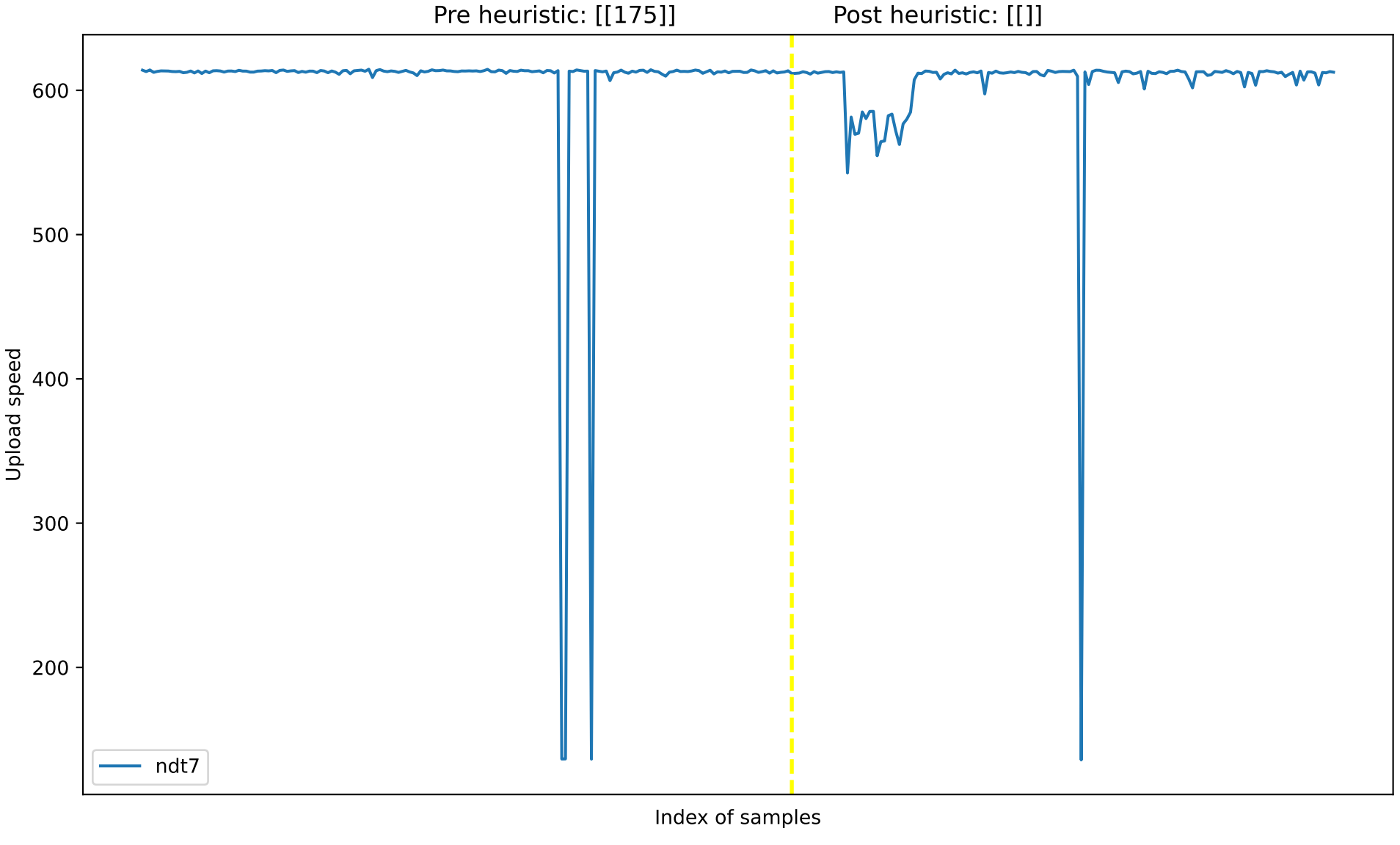

Pre heuristic: [[225]]
Post heuristic: [[]]
ndt7
115
110
105
100
95
Download speed
Index of samples

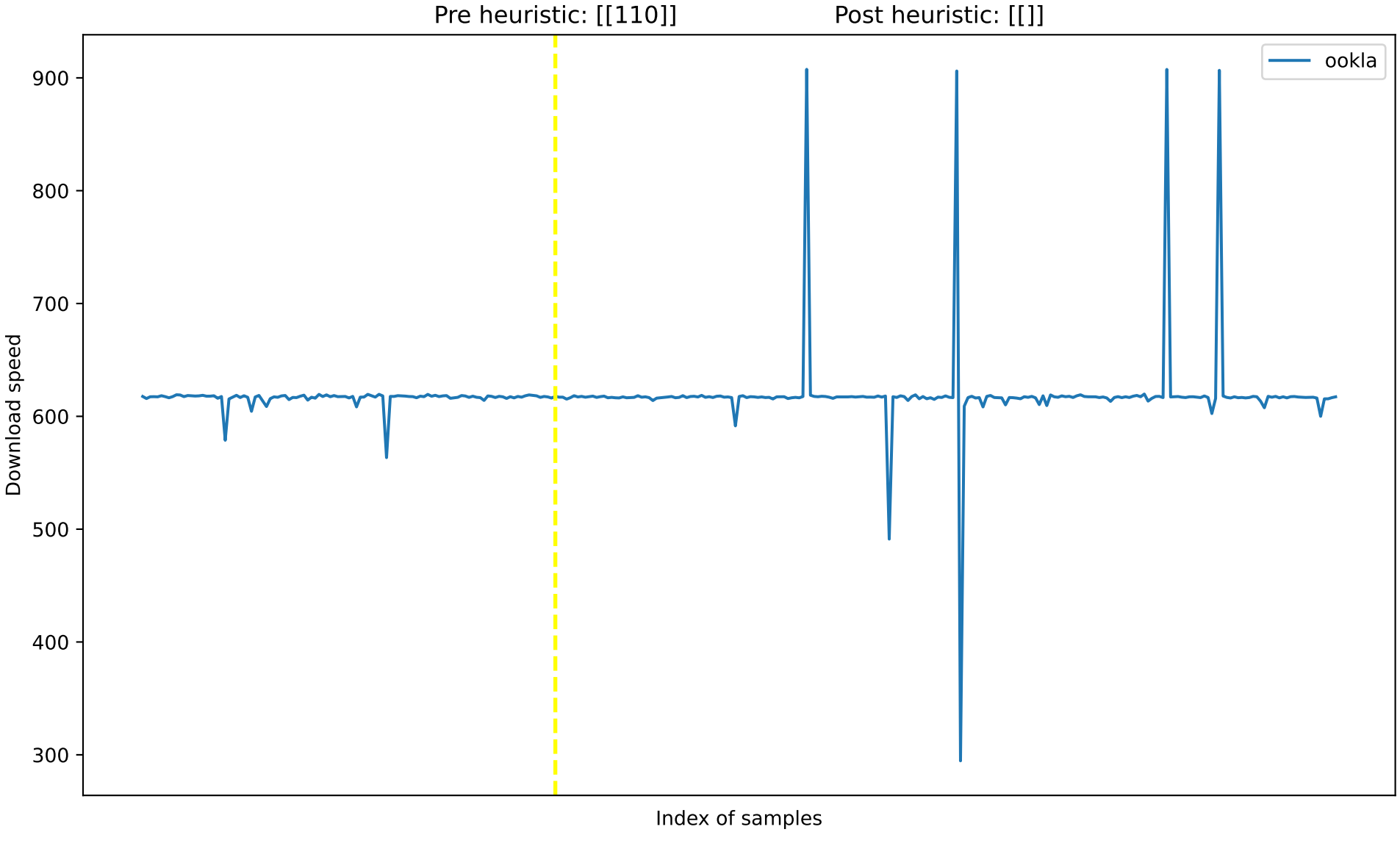

Pre heuristic: [[180]]
Post heuristic: [[180]]
ndt7
Upload speed
Index of samples
0
10
20
30
40
50
60
70
180

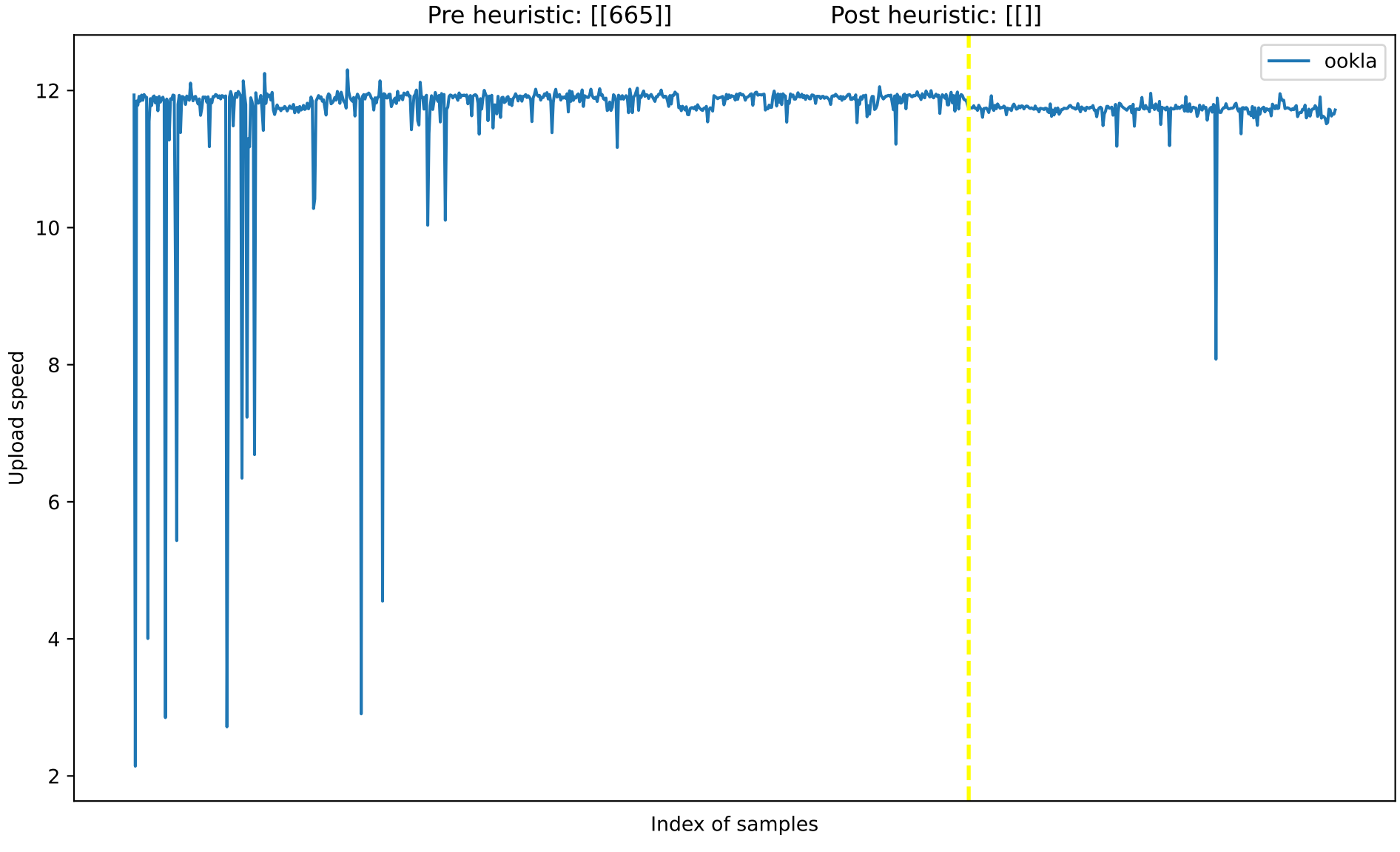

Pre heuristic: [[220]]
Post heuristic: [[220]]
ndt7
Download speed
400
300
200
100
0
220
Index of samples

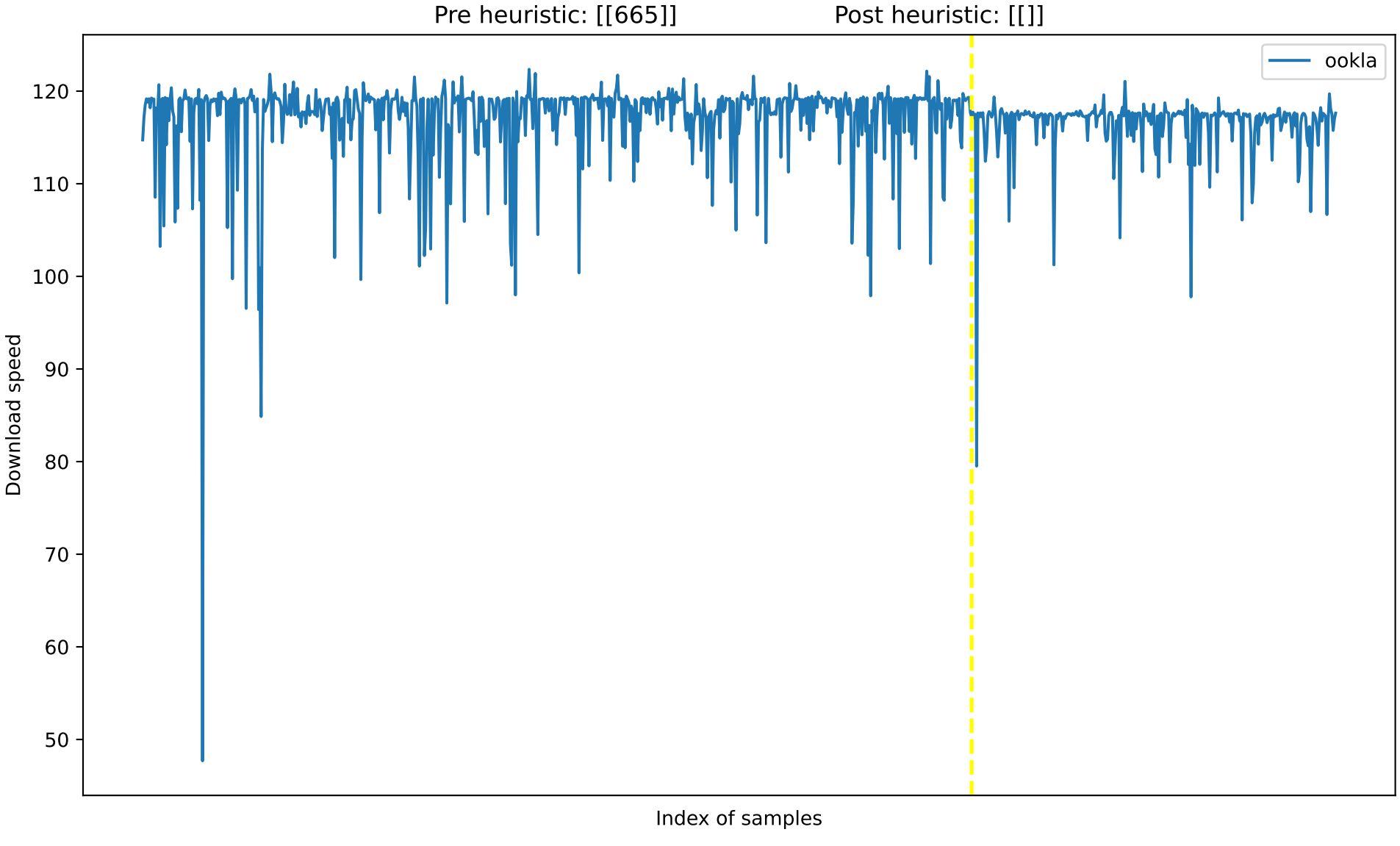

Pre heuristic: [[185]]
Post heuristic: [[185]]
ookla
Upload speed
Index of samples
0
10
20
30
40
50
60
70
185

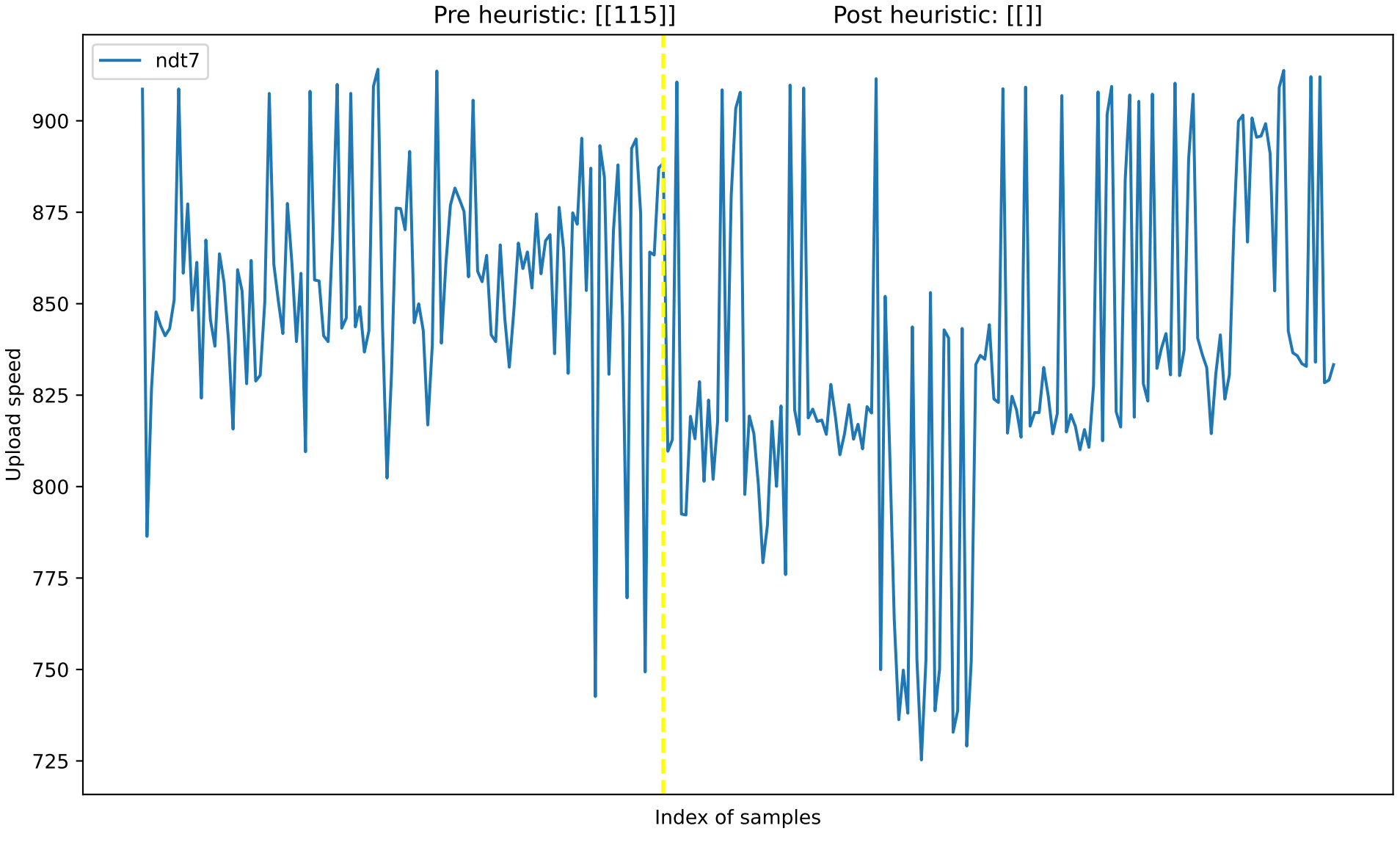

Pre heuristic: [[185]]
Post heuristic: [[185]]
ookla
Download speed
600
500
400
300
200
100
0
185
Index of samples

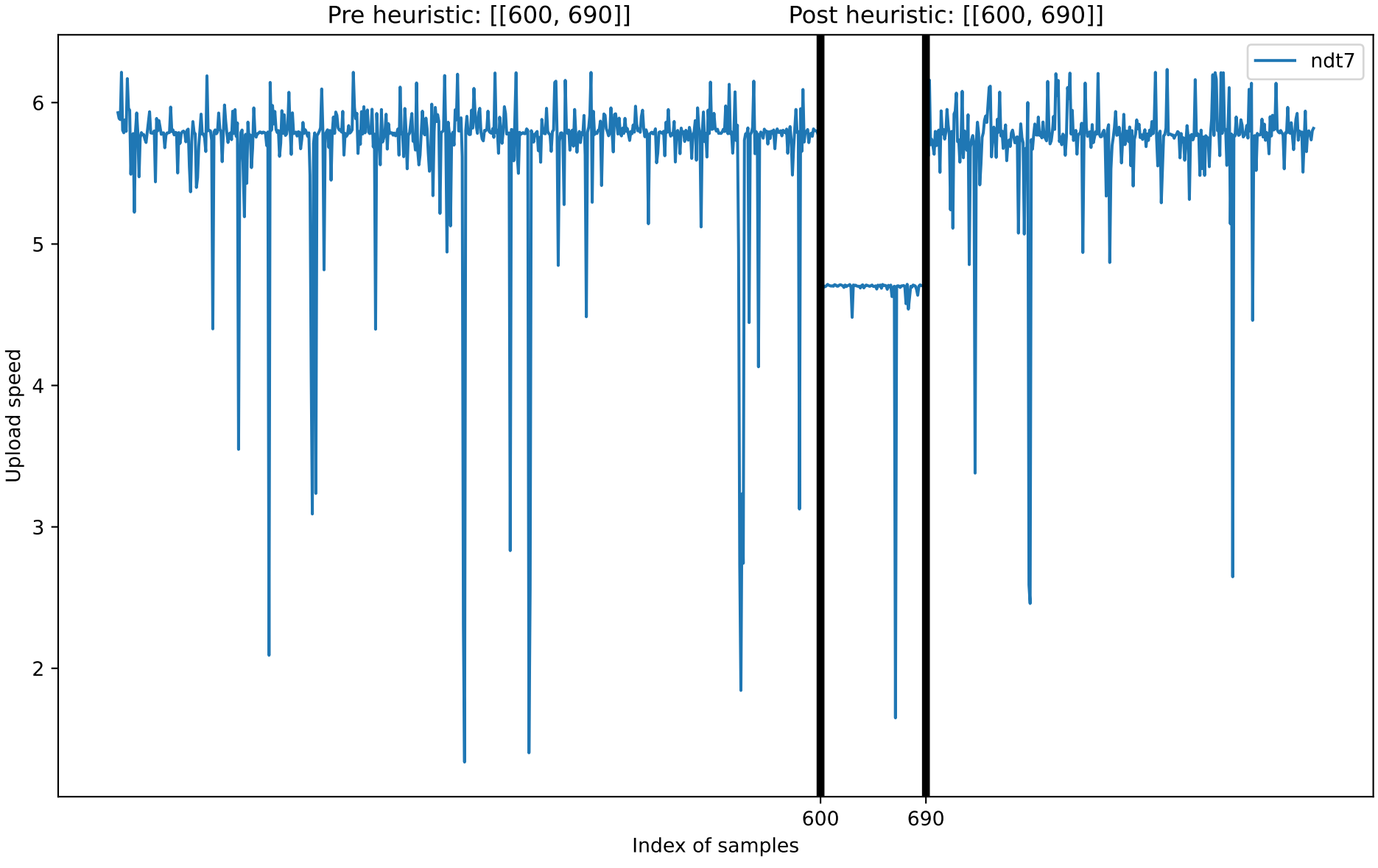

Pre heuristic: [[175]]
Post heuristic: [[]]
600
500
400
300
200
Upload speed
ndt7
Index of samples

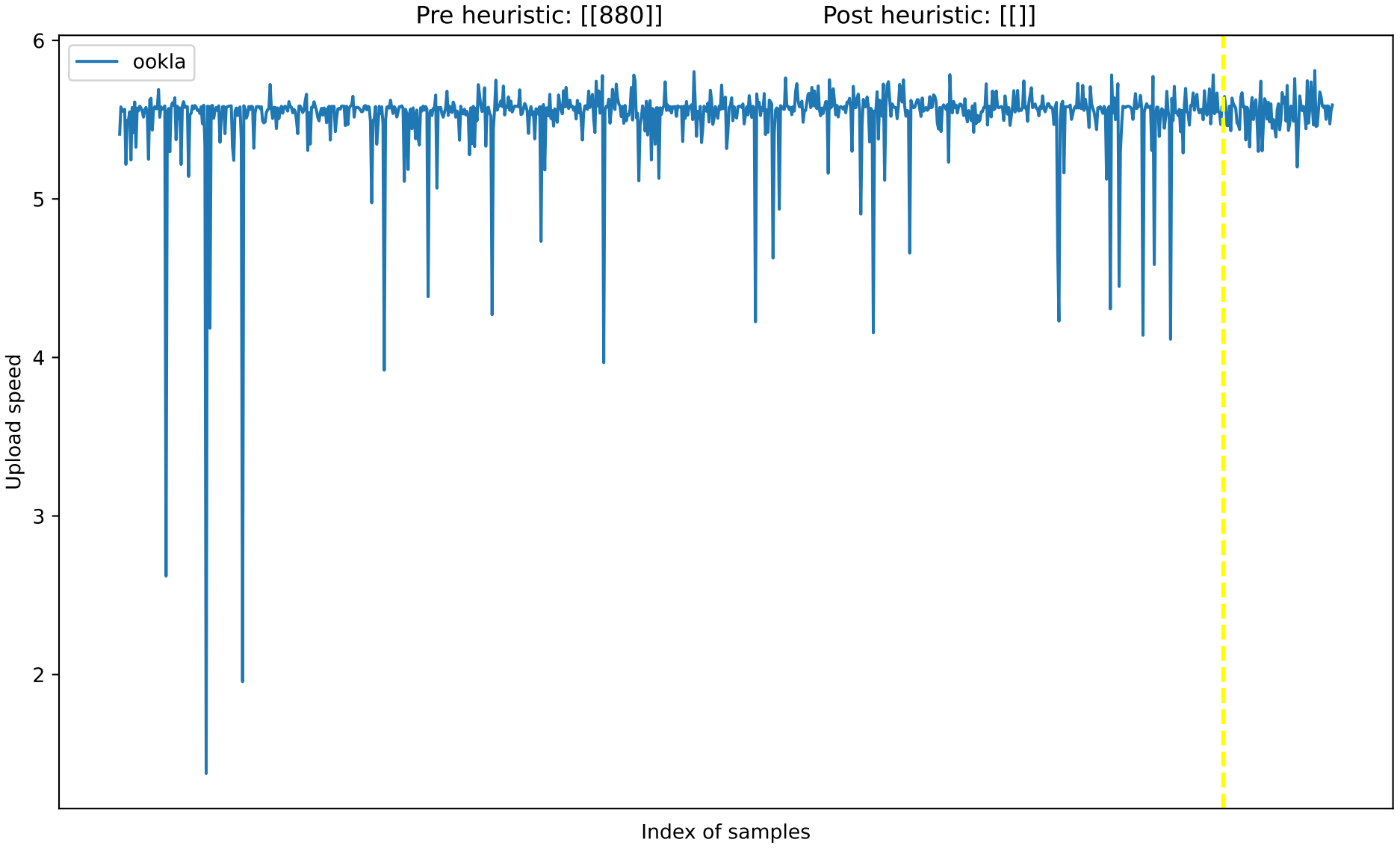

Pre heuristic: [[110]]
Post heuristic: [[]]
ookla
900
800
700
600
500
400
300
Download speed
Index of samples

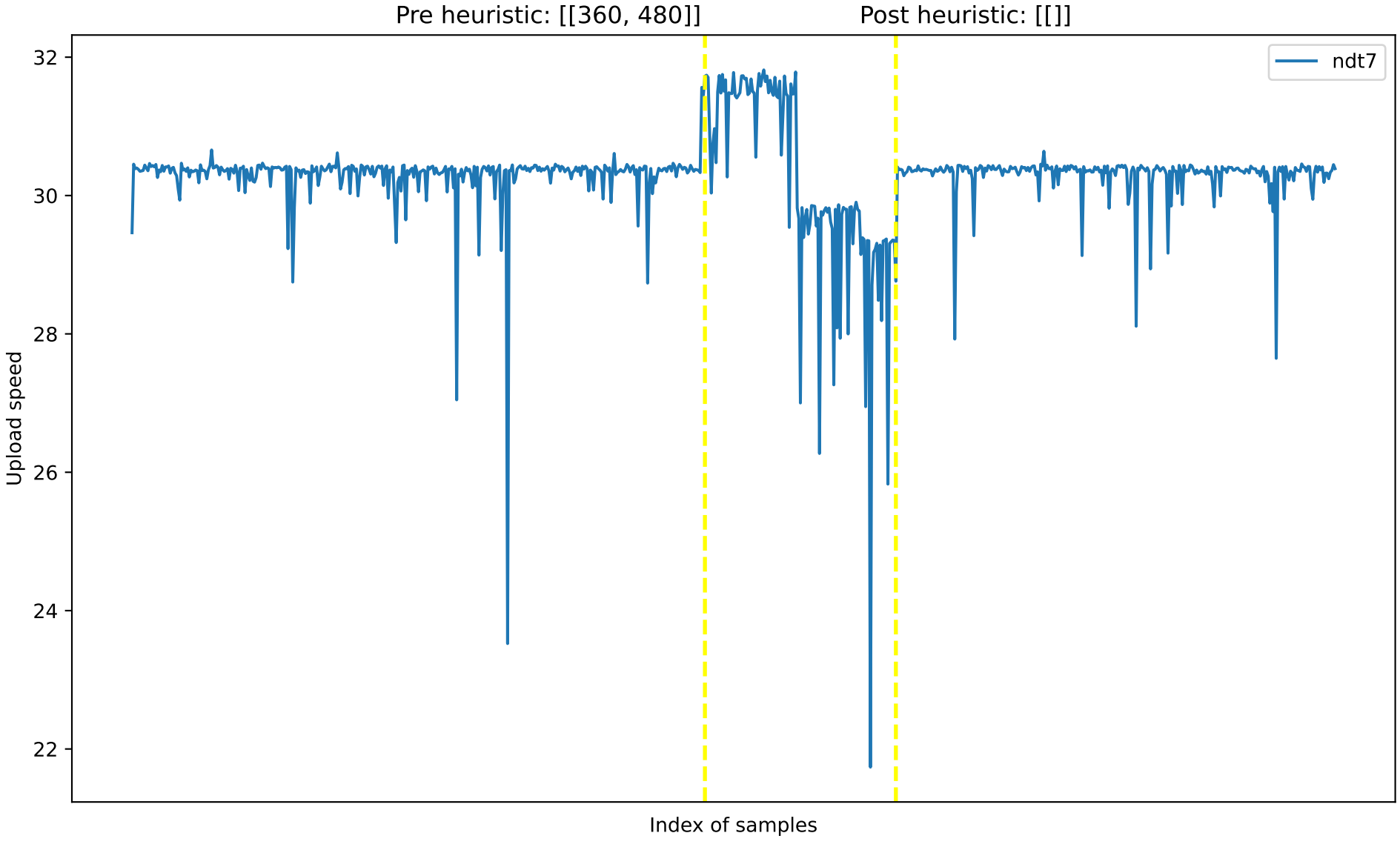

Pre heuristic: [[665]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

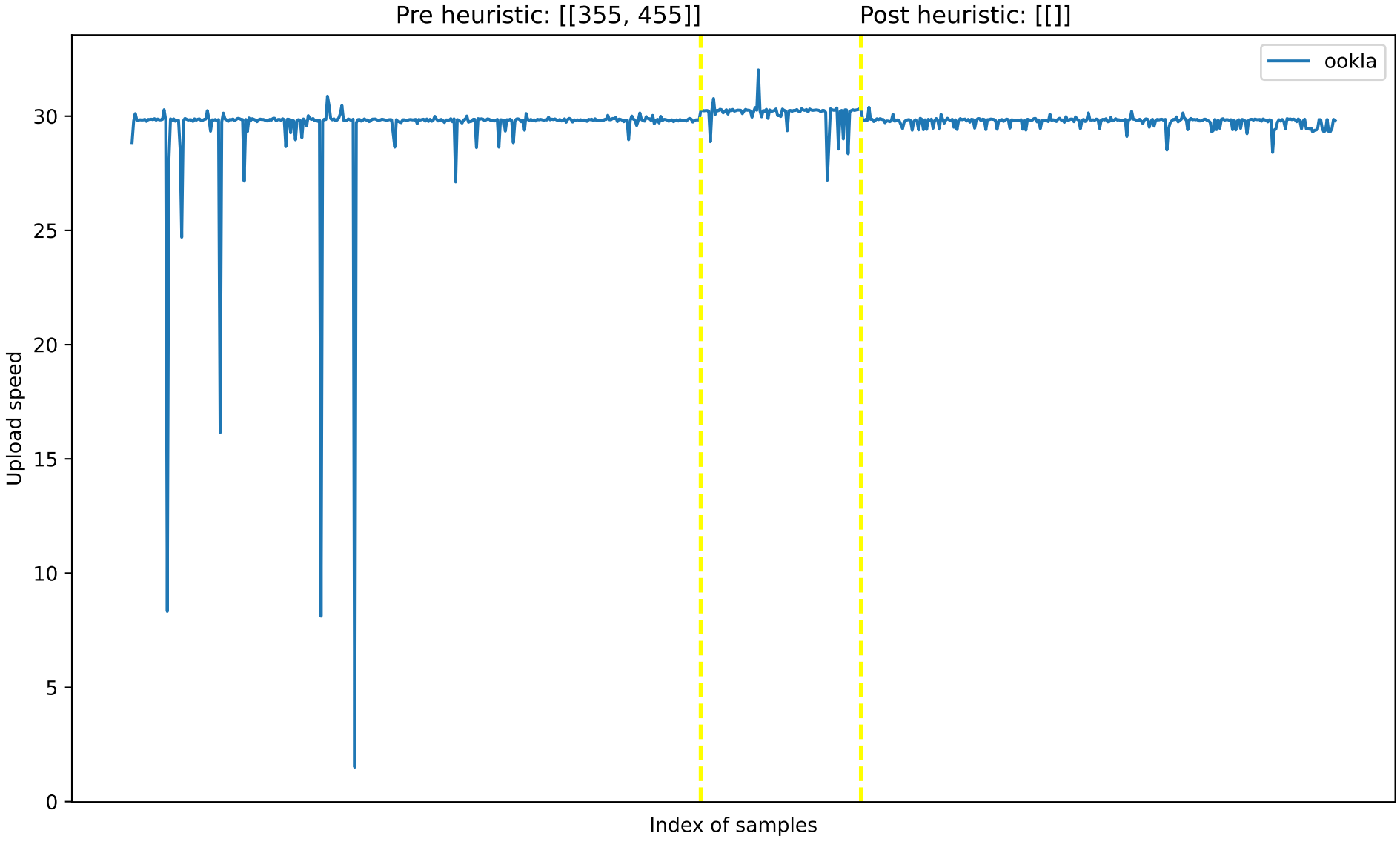

Pre heuristic: [[665]]
Post heuristic: [[]]
ookla
120
110
100
90
80
70
60
50
Download speed
Index of samples

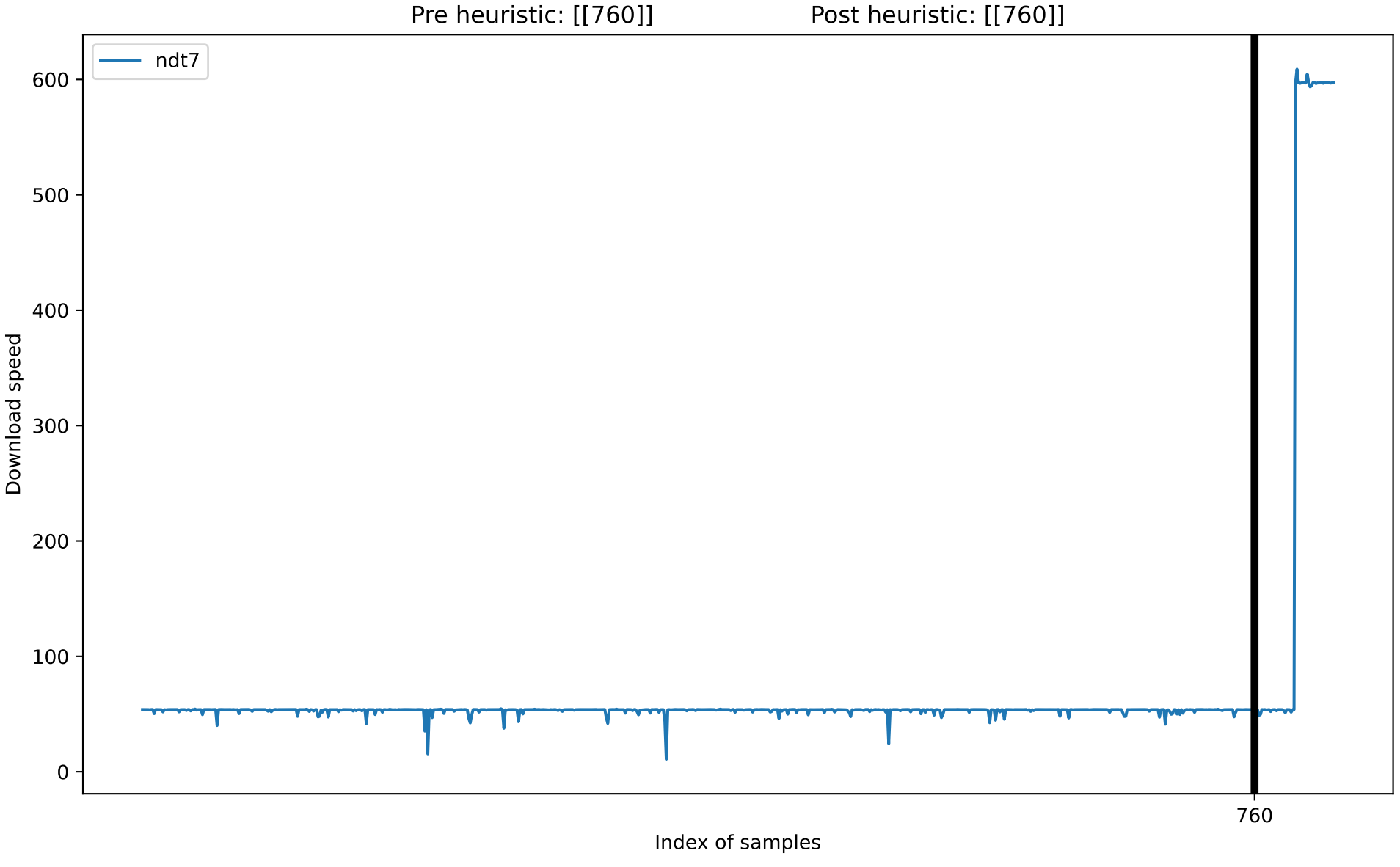

Pre heuristic: [[115]]
Post heuristic: [[]]
ndt7
900
875
850
825
800
775
750
725
Upload speed
Index of samples

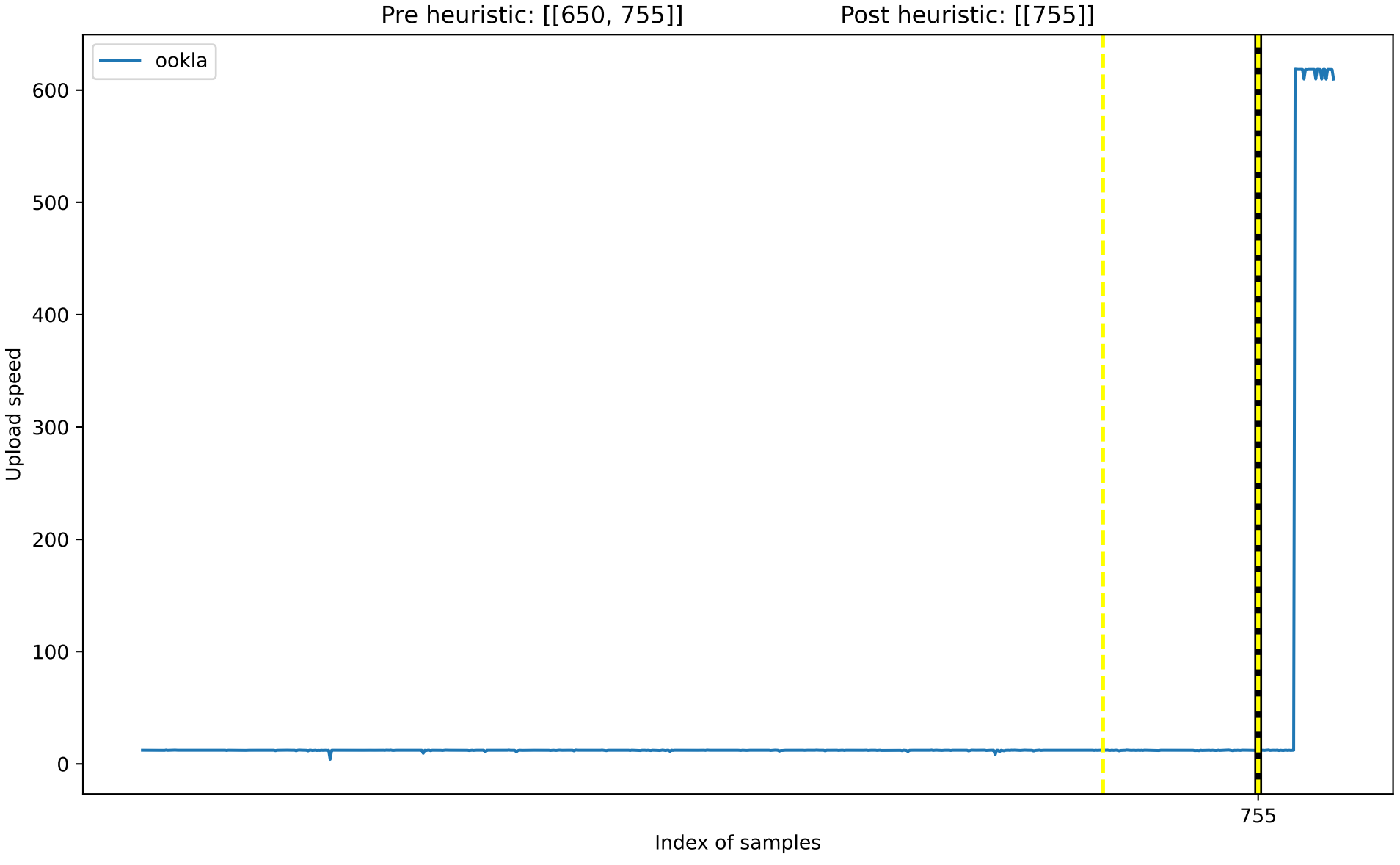

Pre heuristic: [[600, 690]]
Post heuristic: [[600, 690]]
ndt7
Upload speed
6
5
4
3
2
600
690
Index of samples


Pre heuristic: [[880]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
6
5
4
3
2

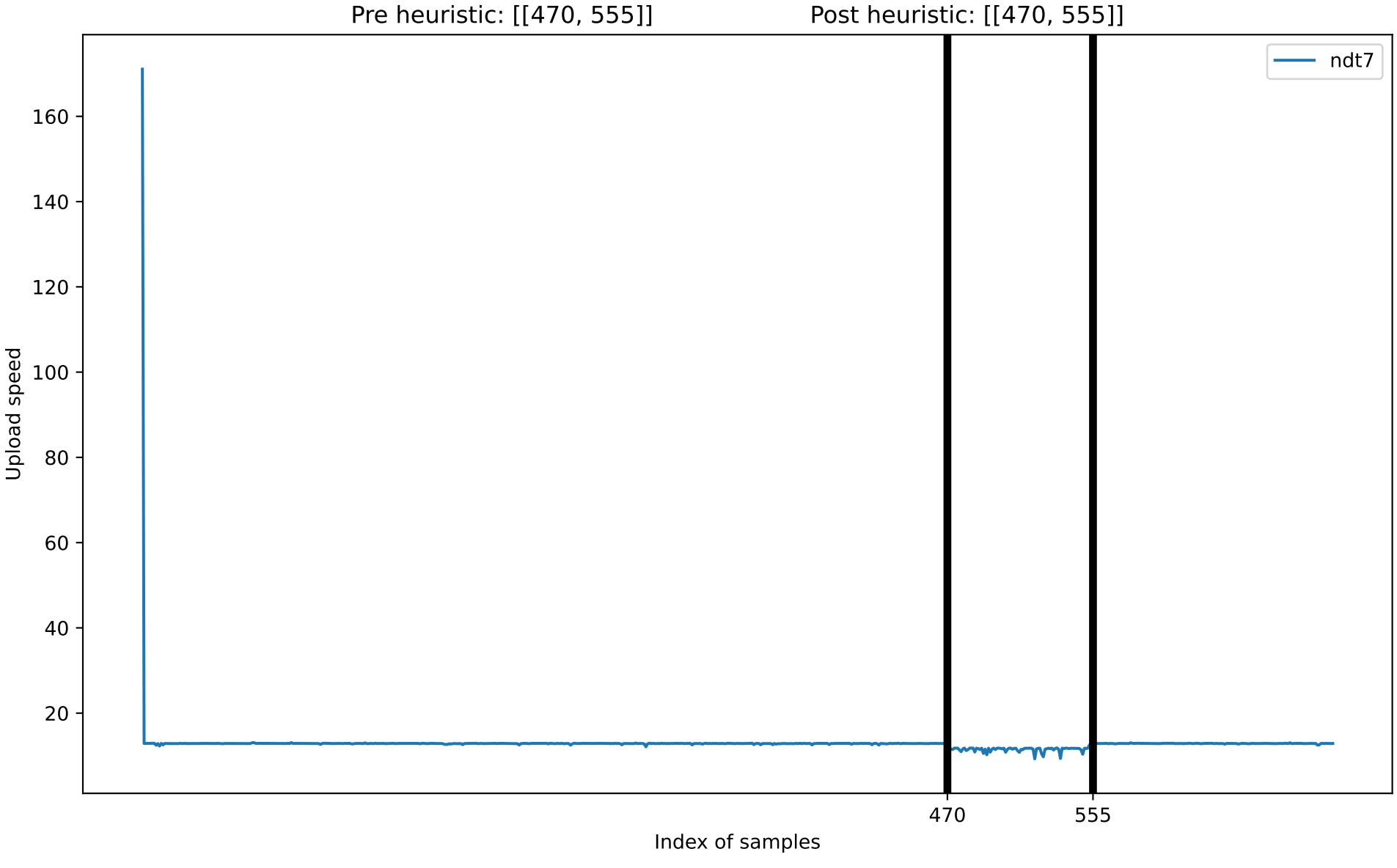

Pre heuristic: [[360, 480]]
Post heuristic: [[]]
ndt7
32
30
28
26
24
22
Upload speed
Index of samples

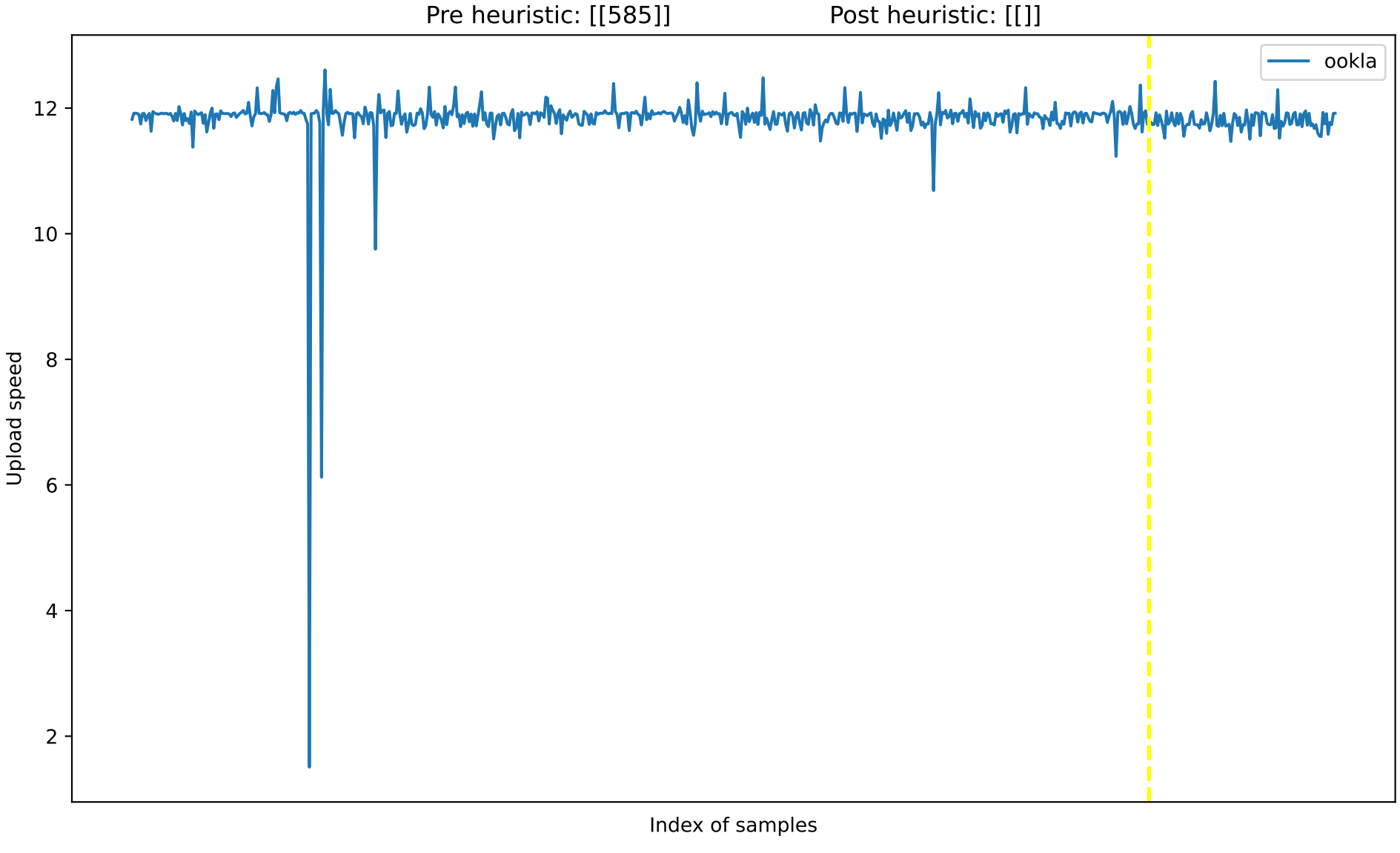

Pre heuristic: [[355, 455]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
0
5
10
15
20
25
30

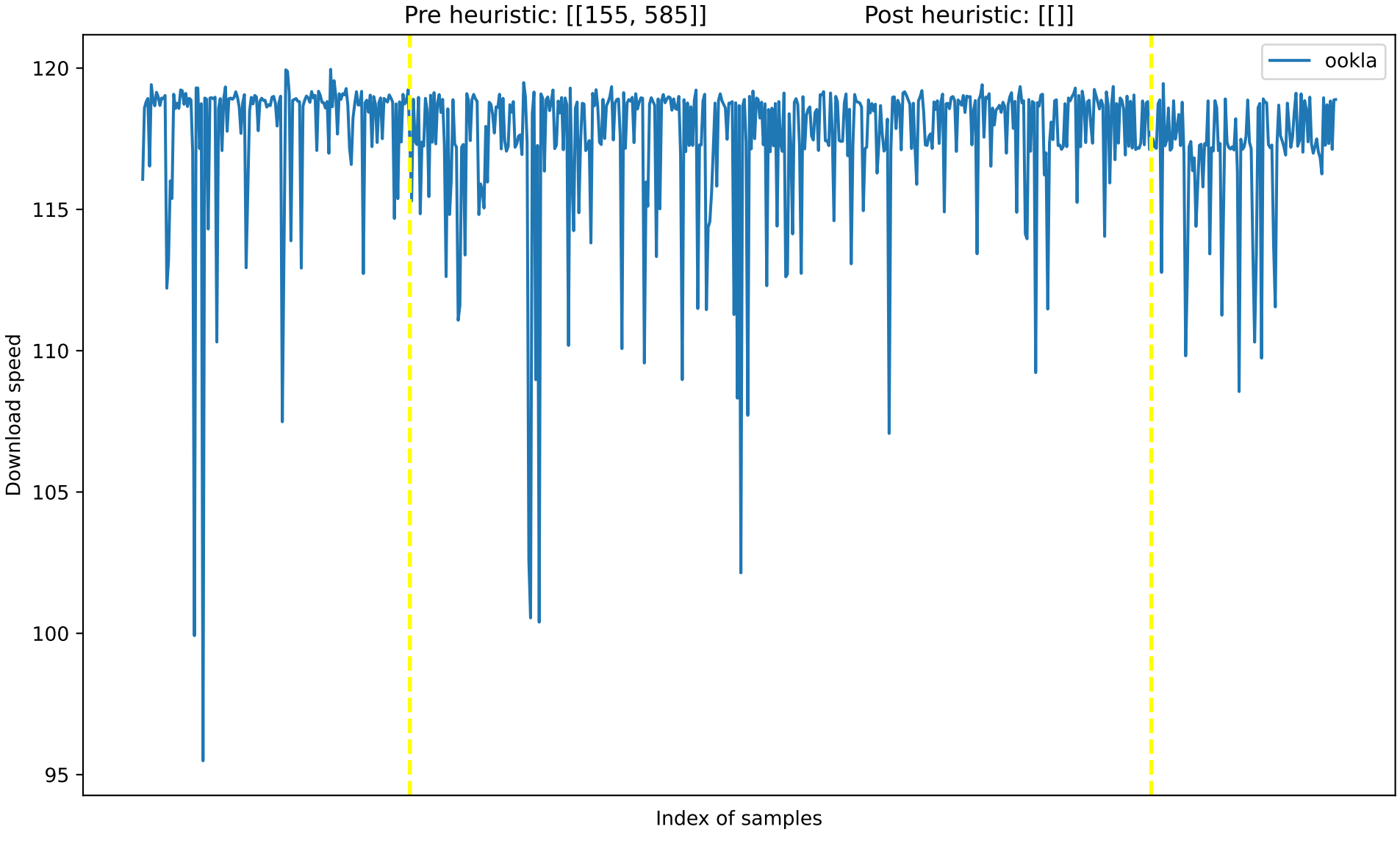

Pre heuristic: [[760]]
Post heuristic: [[760]]
ndt7
600
500
400
300
200
100
0
Download speed
760
Index of samples

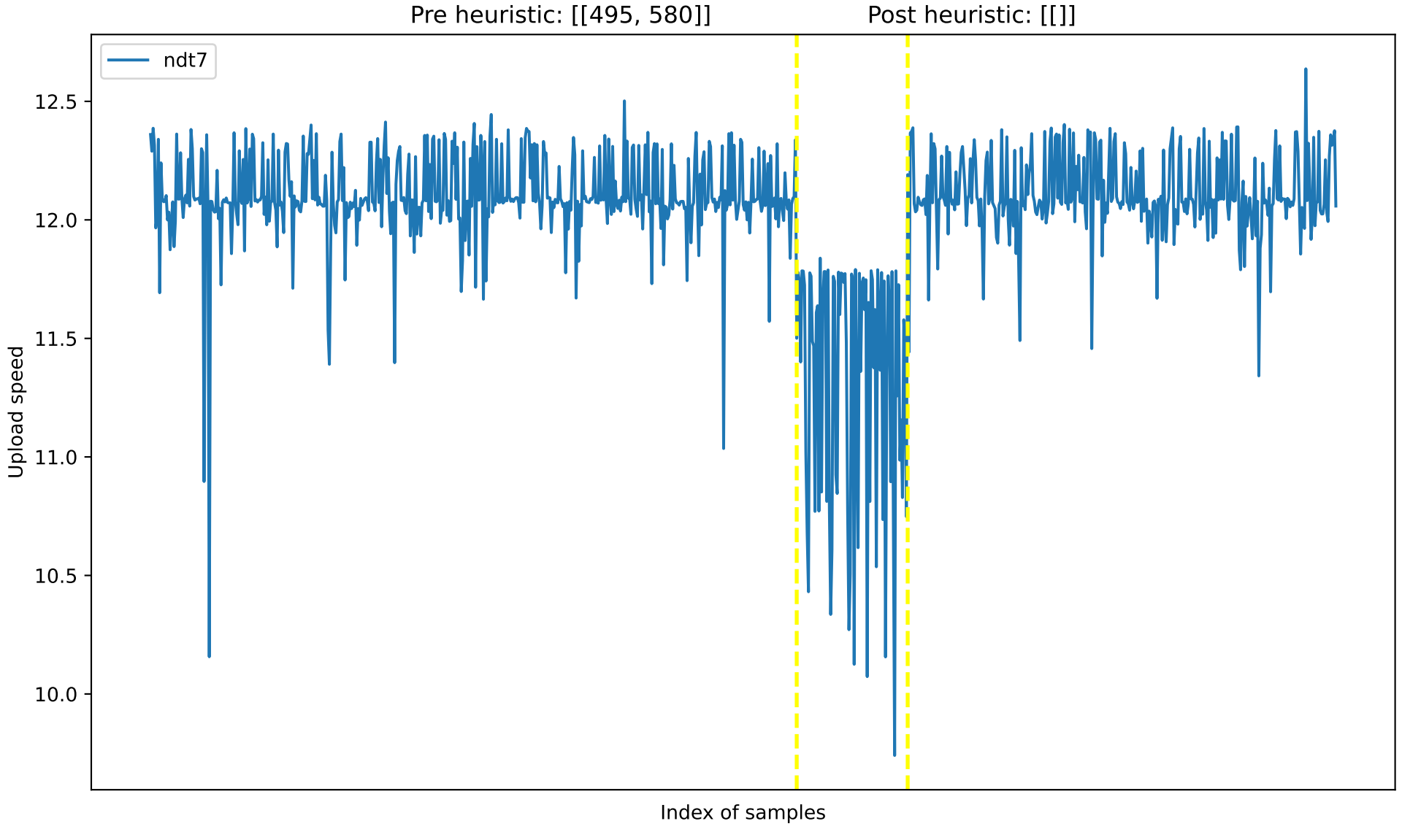

Pre heuristic: [[650, 755]]
Post heuristic: [[755]]
ookla
600
500
400
300
200
100
0
Upload speed
755
Index of samples

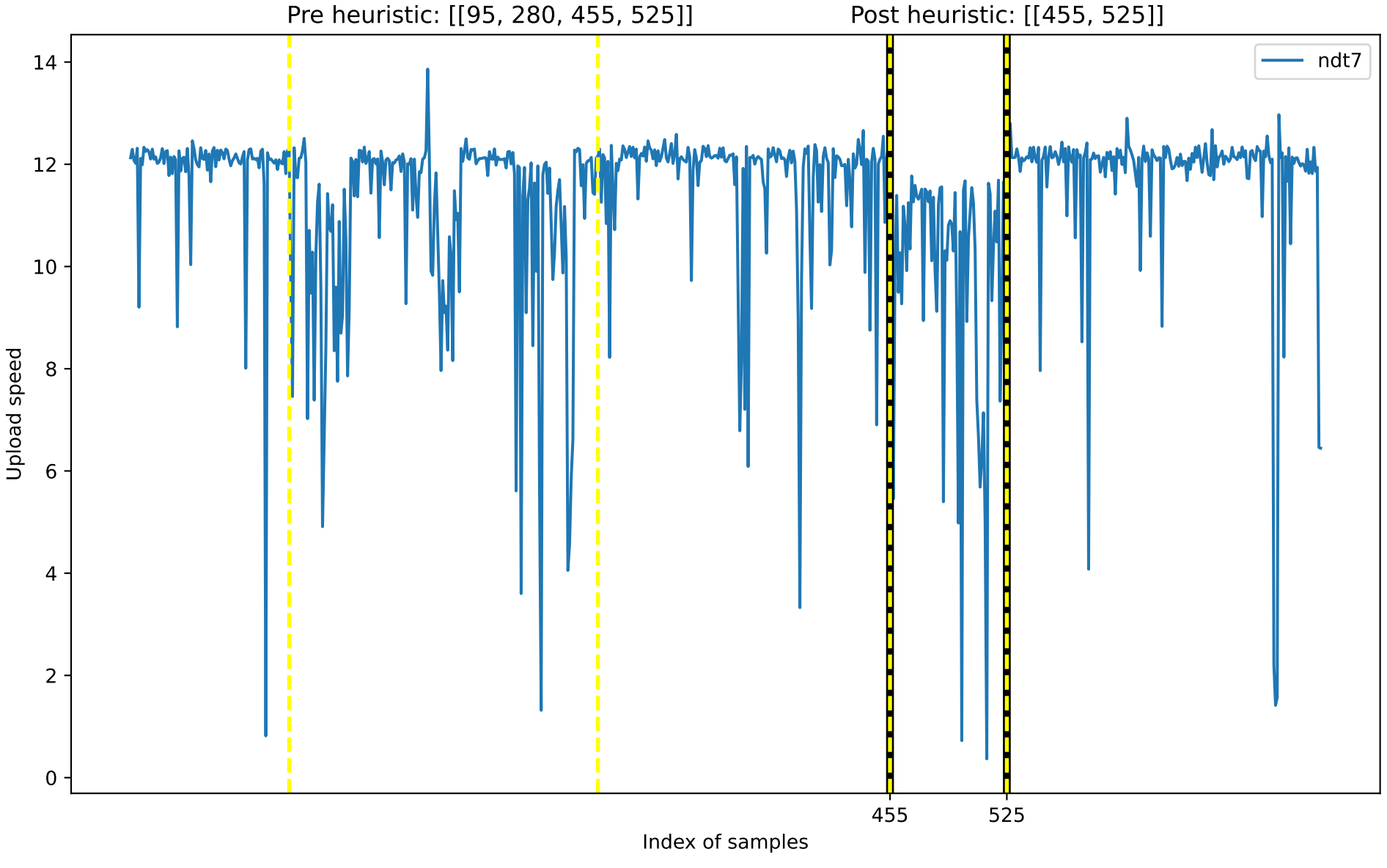
Pre heuristic: [[680, 755]]
Post heuristic: [[755]]
ookla
600
500
400
300
200
100
0
Download speed
755
Index of samples

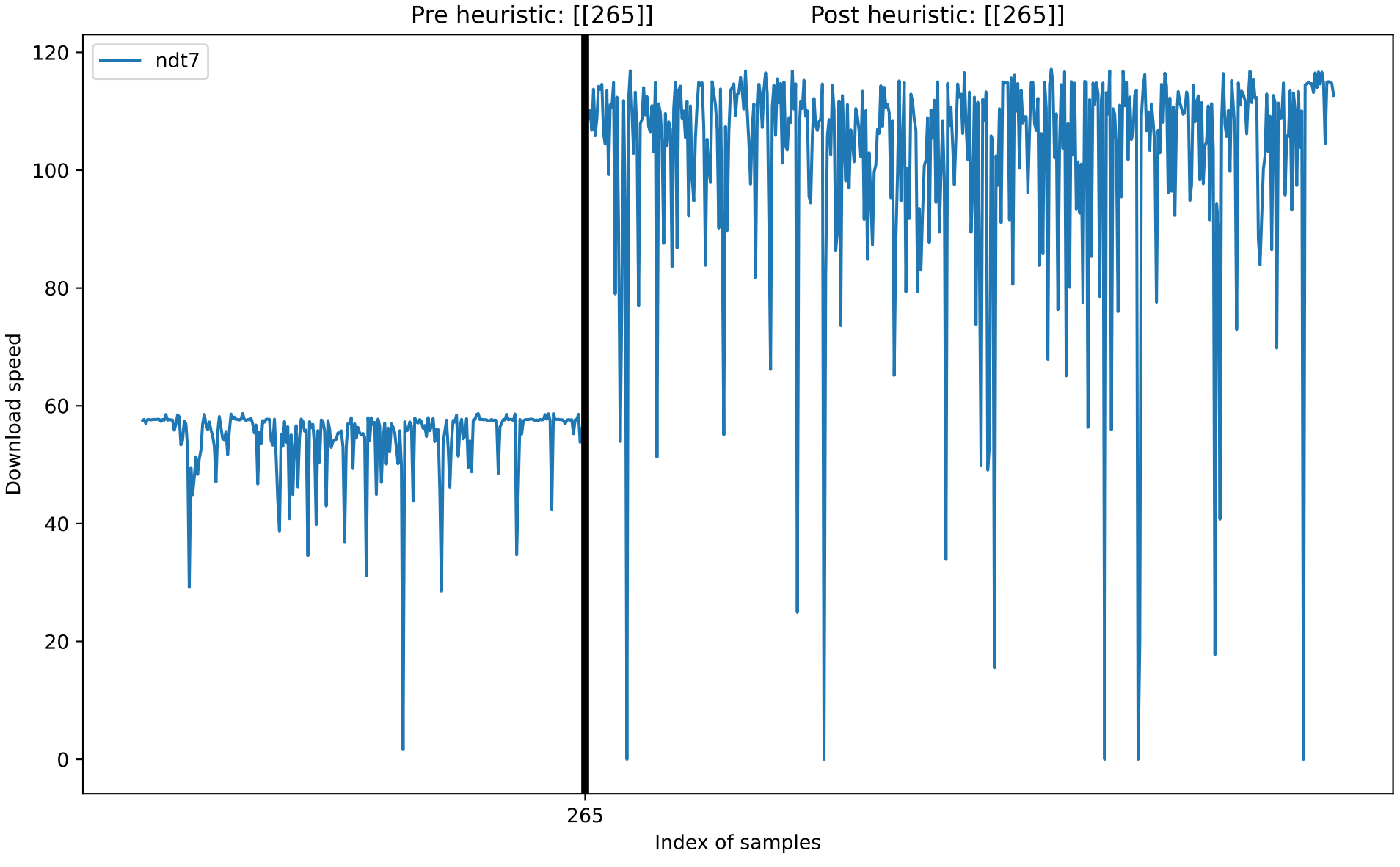

Pre heuristic: [[470, 555]]
Post heuristic: [[470, 555]]
ndt7
160
140
120
100
80
60
40
20
Upload speed
470
555
Index of samples

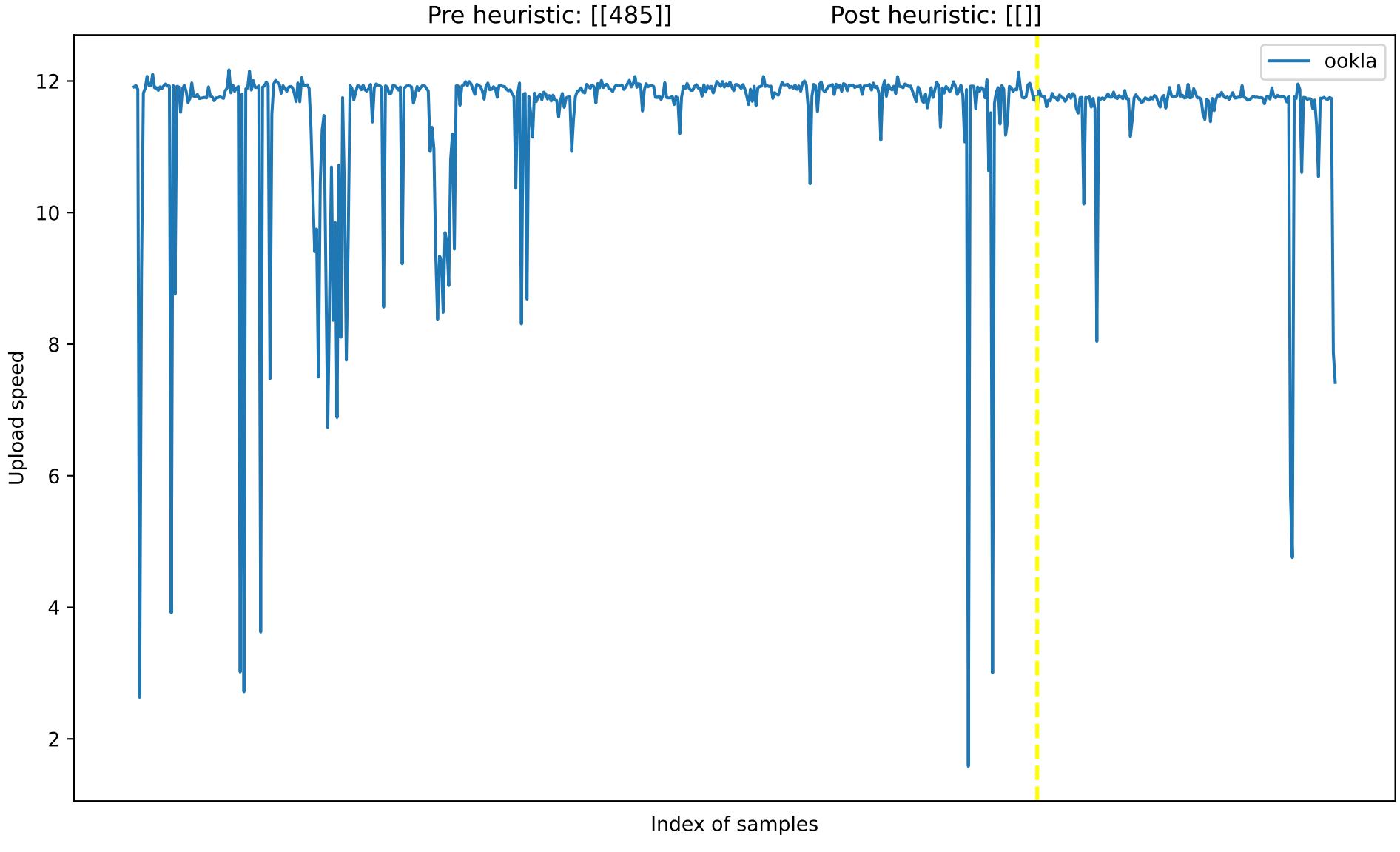

Pre heuristic: [[585]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

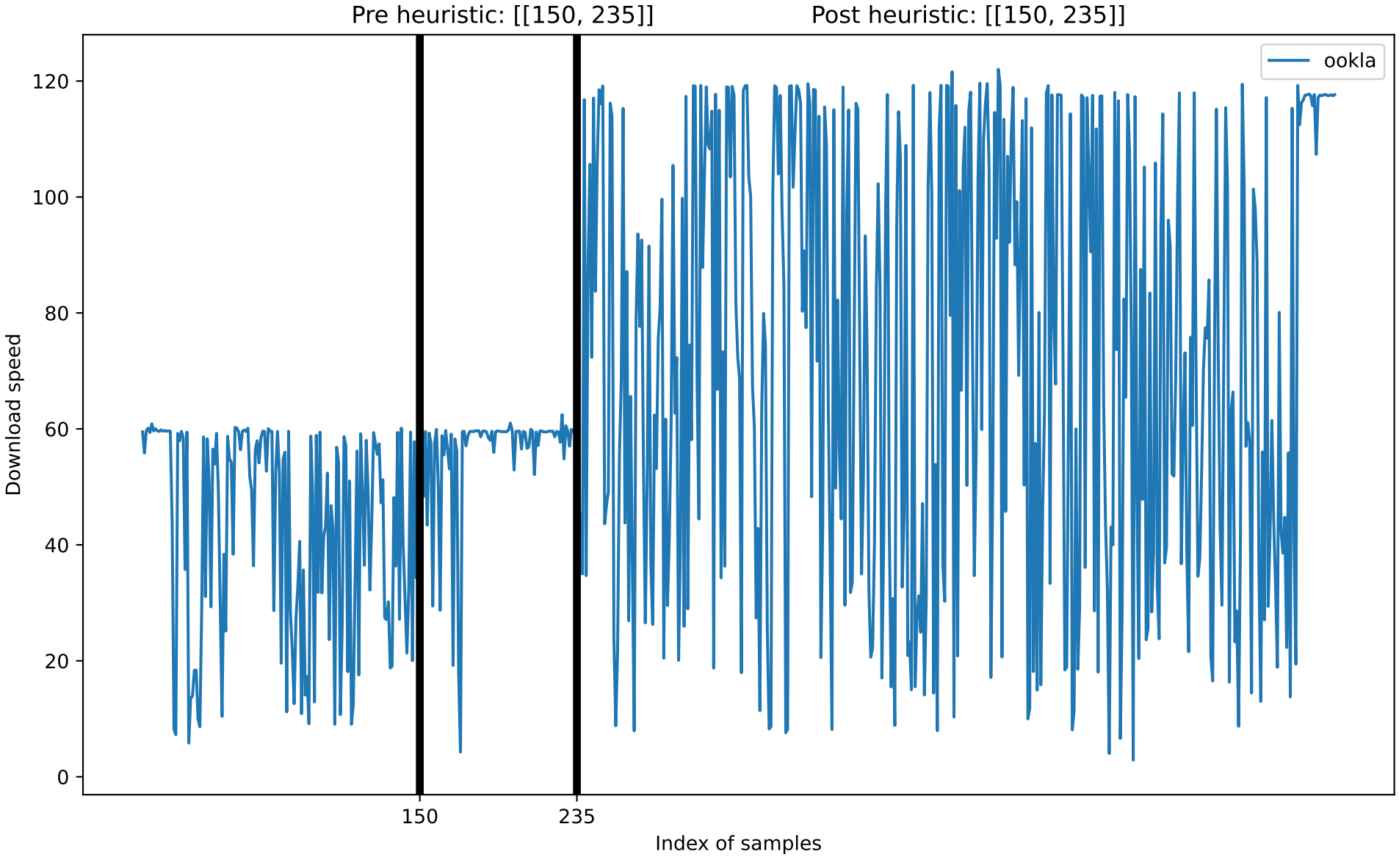

Pre heuristic: [[155, 585]]
Post heuristic: [[]]
ookla
120
115
110
105
100
95
Download speed
Index of samples

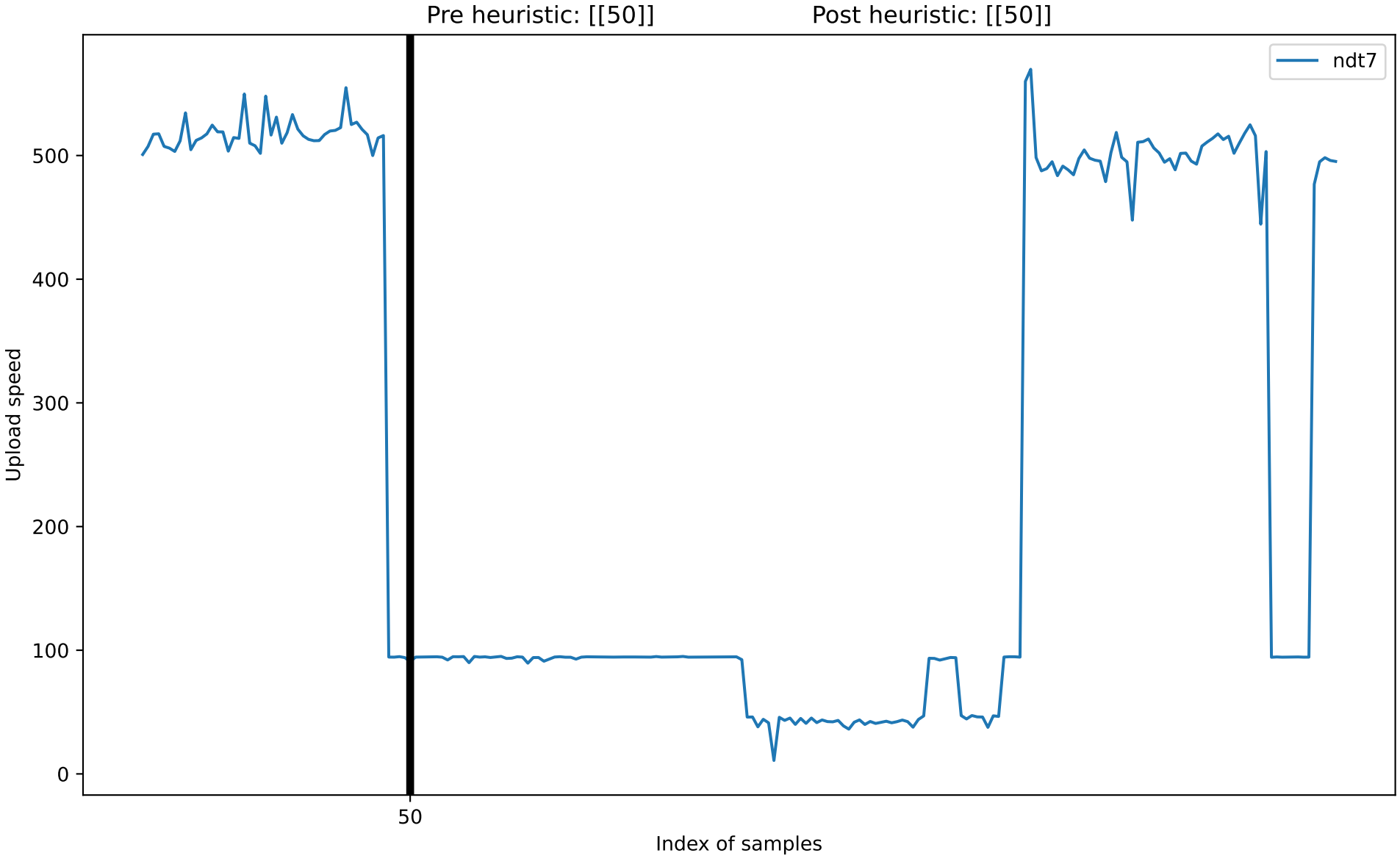

Pre heuristic: [[495, 580]]
Post heuristic: [[]]
ndt7
12.5
12.0
11.5
11.0
10.5
10.0
Upload speed
Index of samples

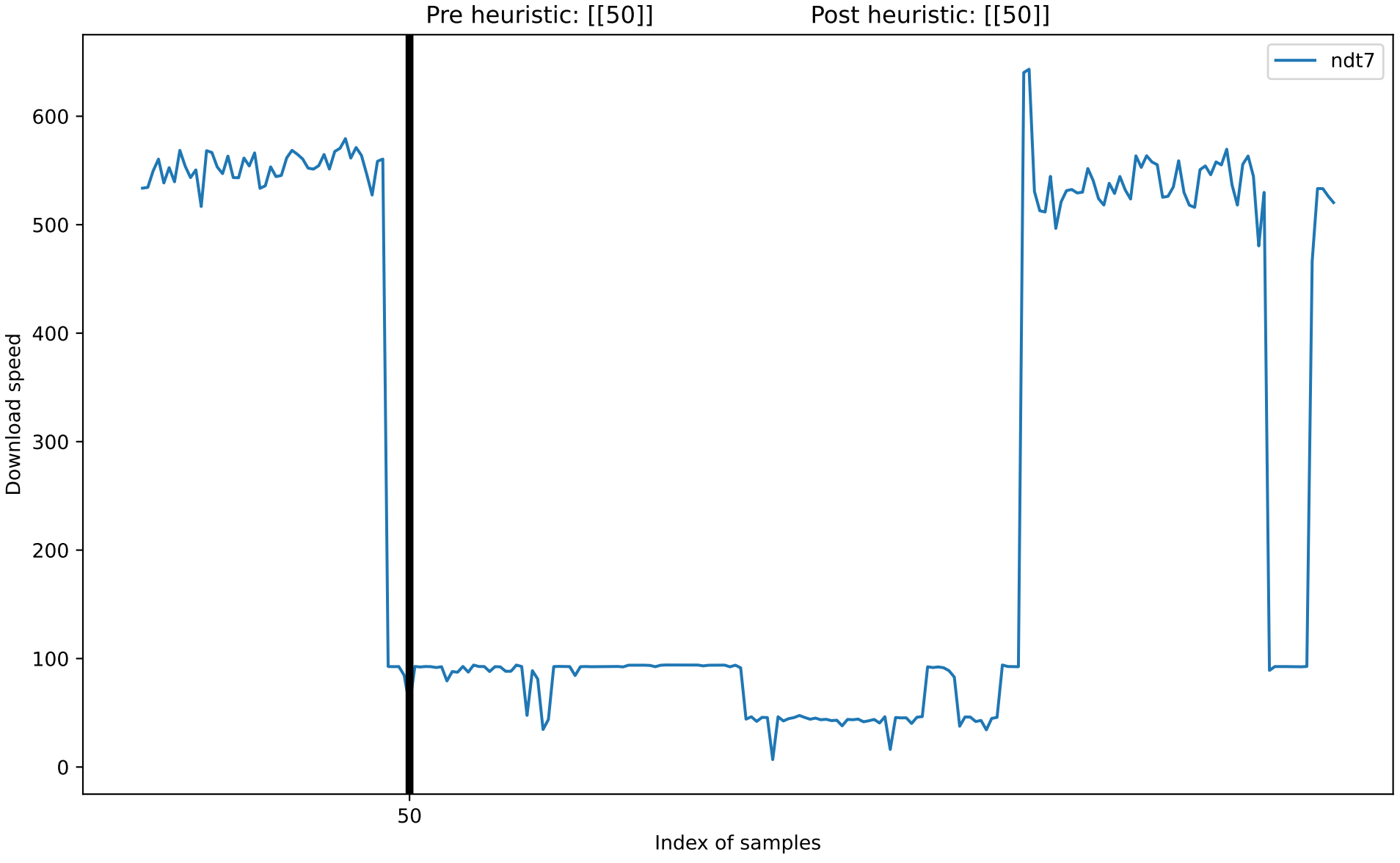

Pre heuristic: [[95, 280, 455, 525]]
Post heuristic: [[455, 525]]
ndt7
Upload speed
Index of samples
0
2
4
6
8
10
12
14
455
525

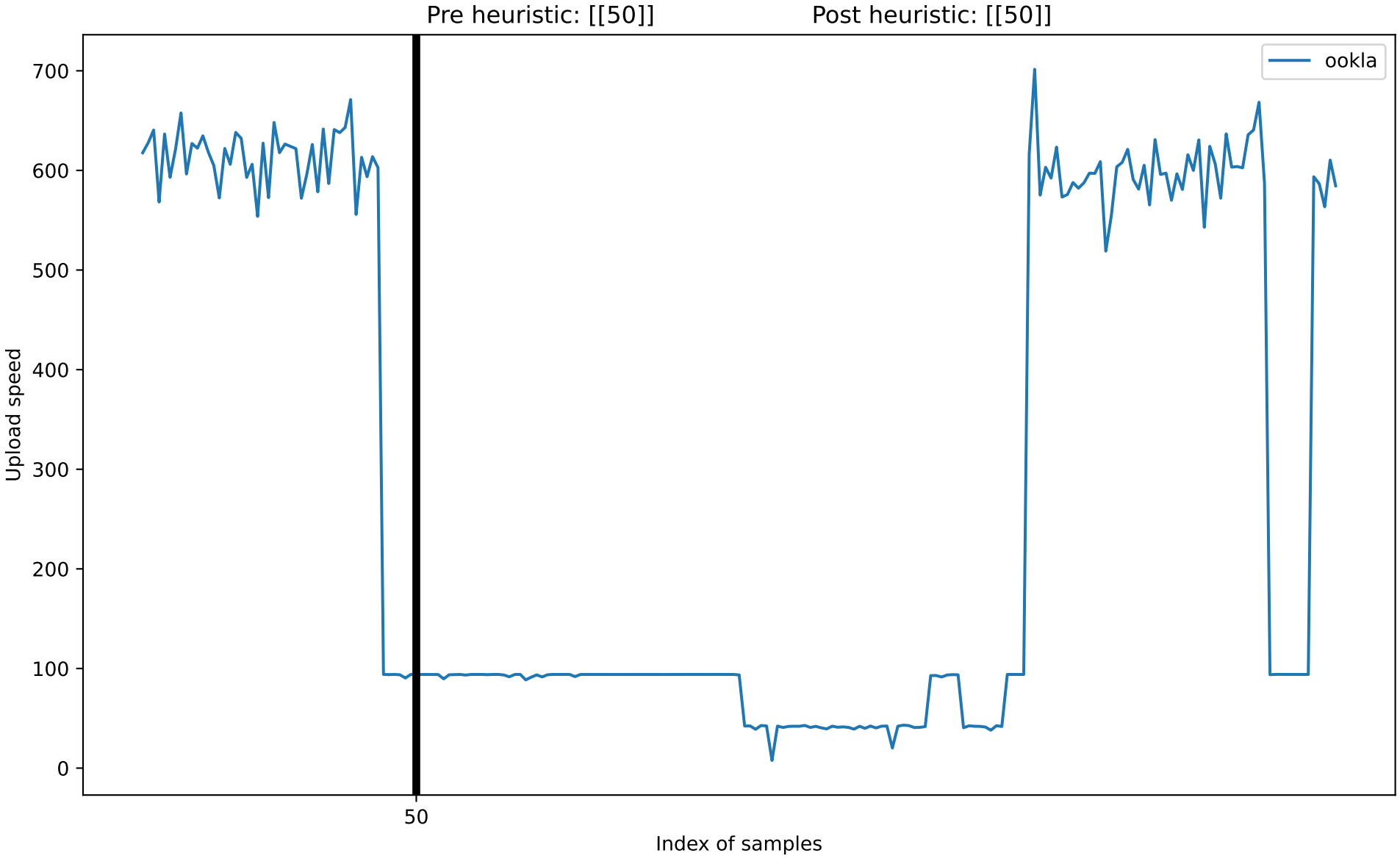

Pre heuristic: [[265]]
Post heuristic: [[265]]
ndt7
120
100
80
60
40
20
0
Download speed
265
Index of samples

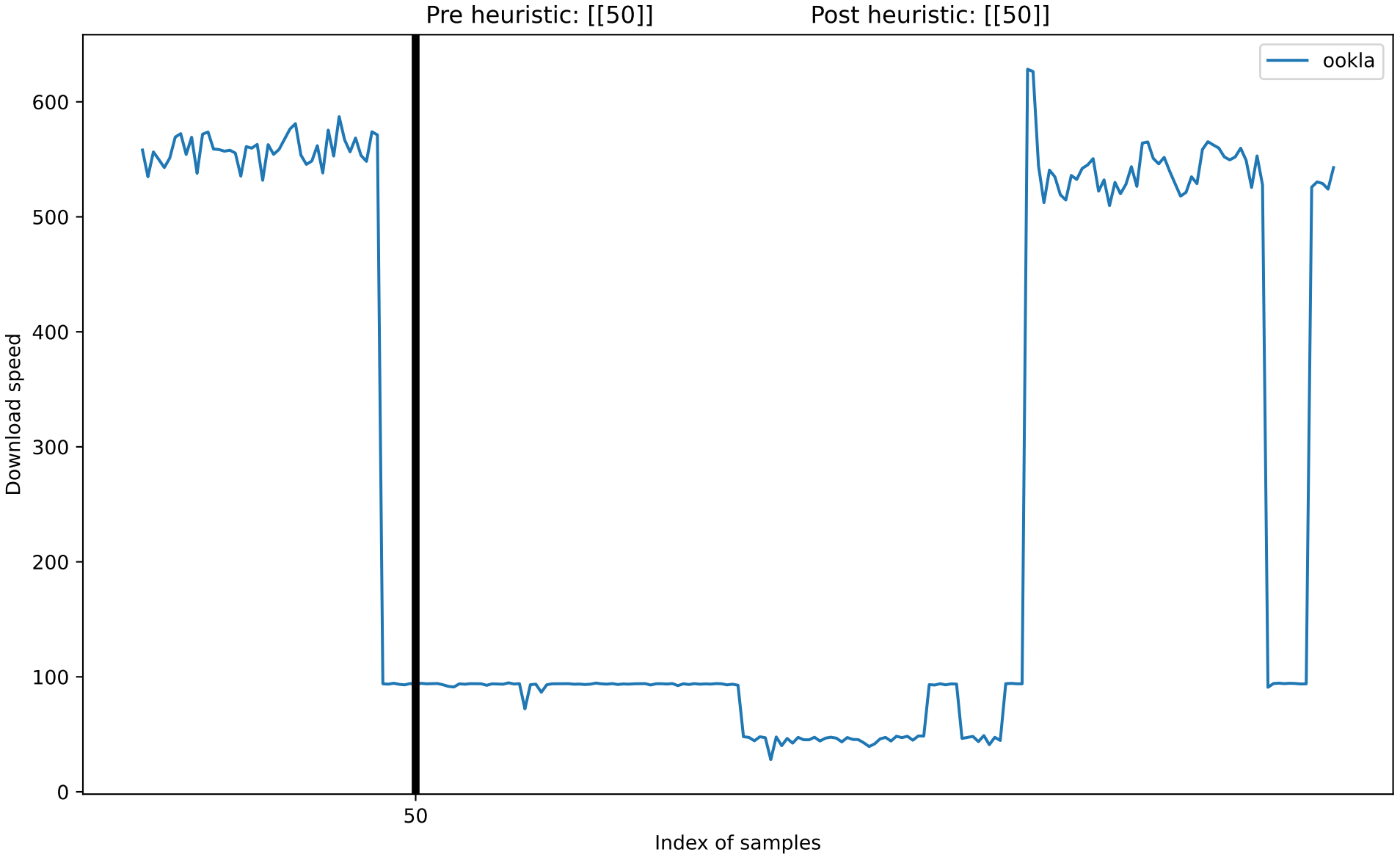

Pre heuristic: [[485]]
Post heuristic: [[]]
ookla
Upload speed
Index of samples
12
10
8
6
4
2

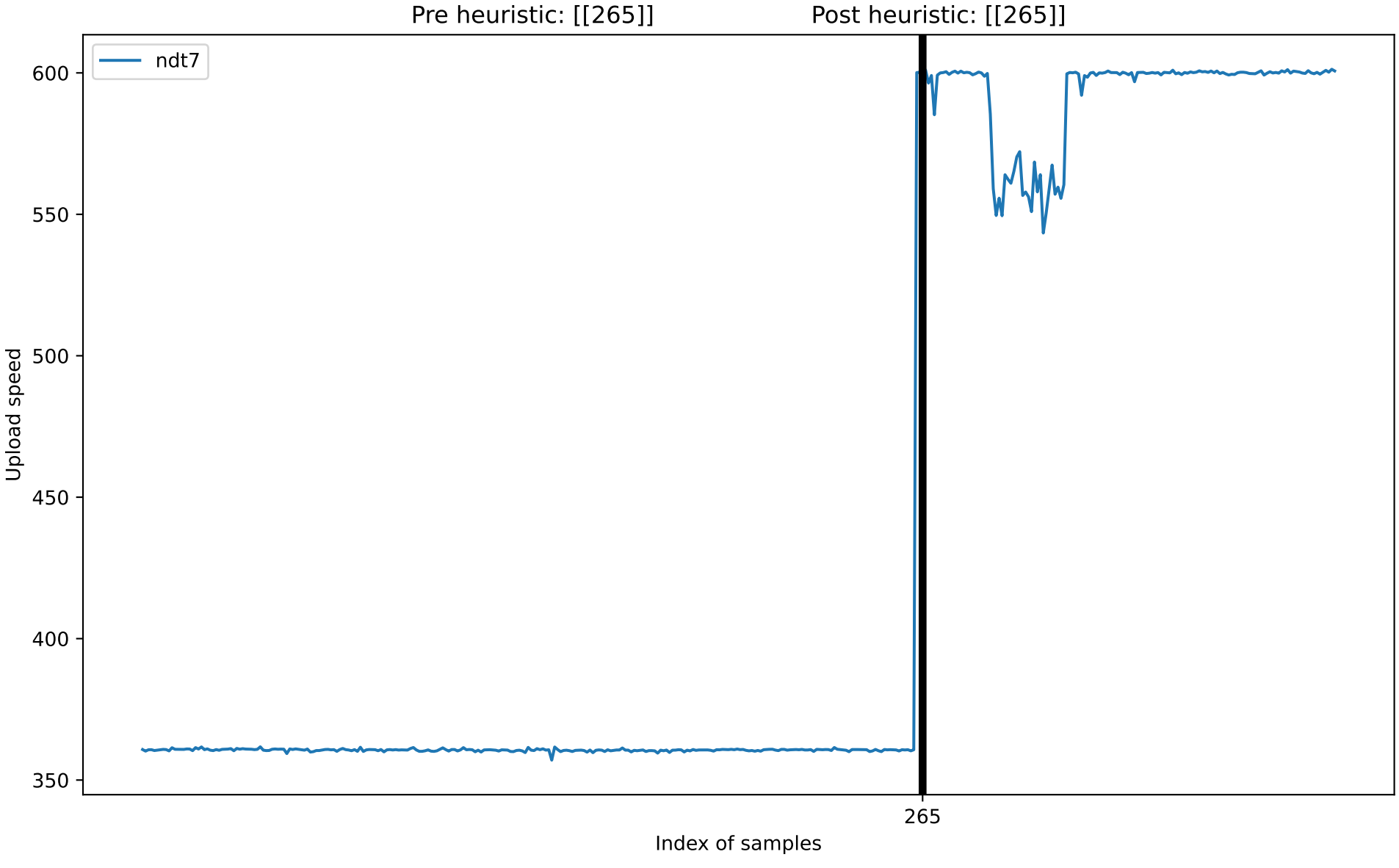

Pre heuristic: [[150, 235]]
Post heuristic: [[150, 235]]
ookla
Download speed
120
100
80
60
40
20
0
150
235
Index of samples

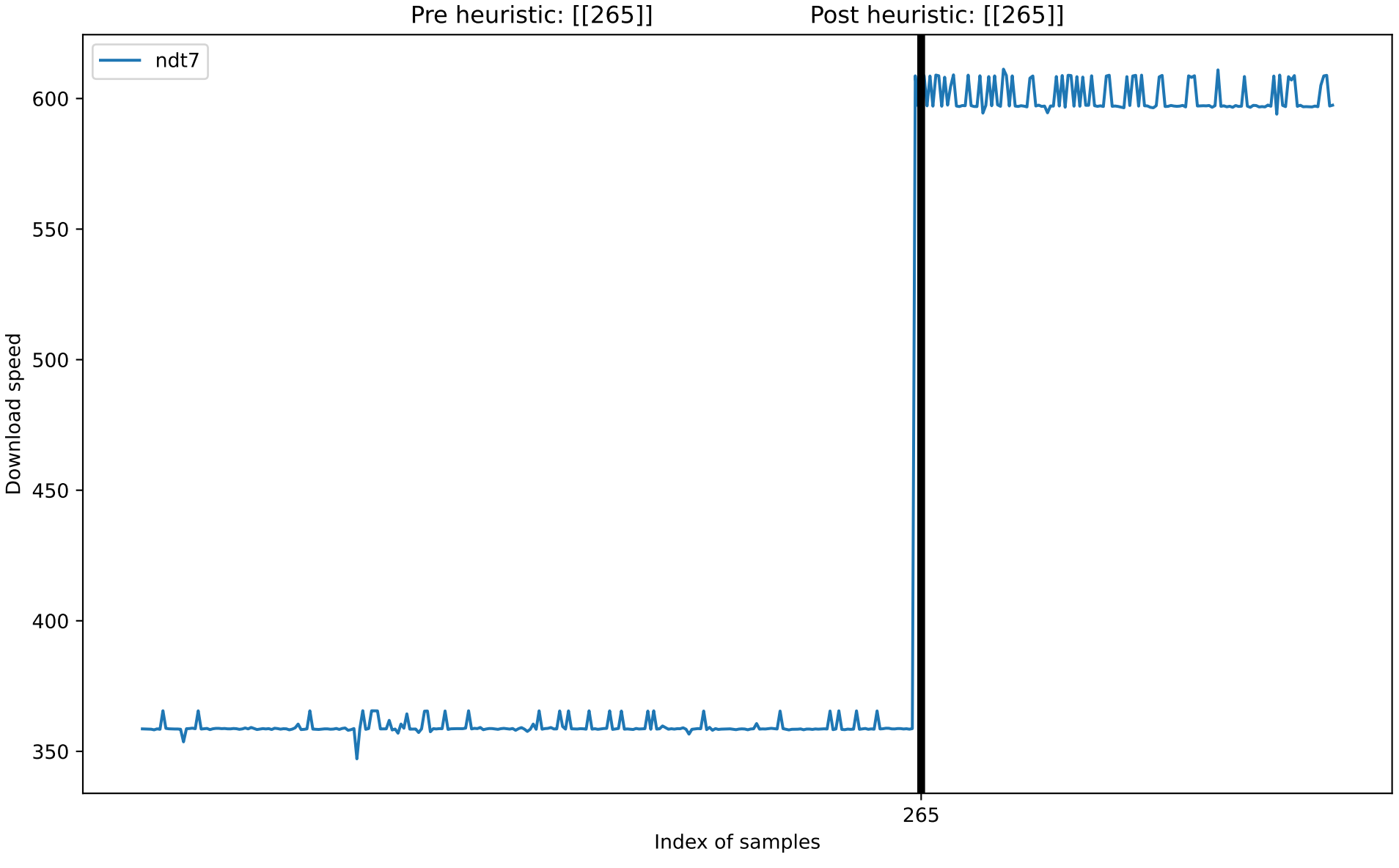

Pre heuristic: [[50]]
Post heuristic: [[50]]
ndt7
Upload speed
0
100
200
300
400
500
50
Index of samples

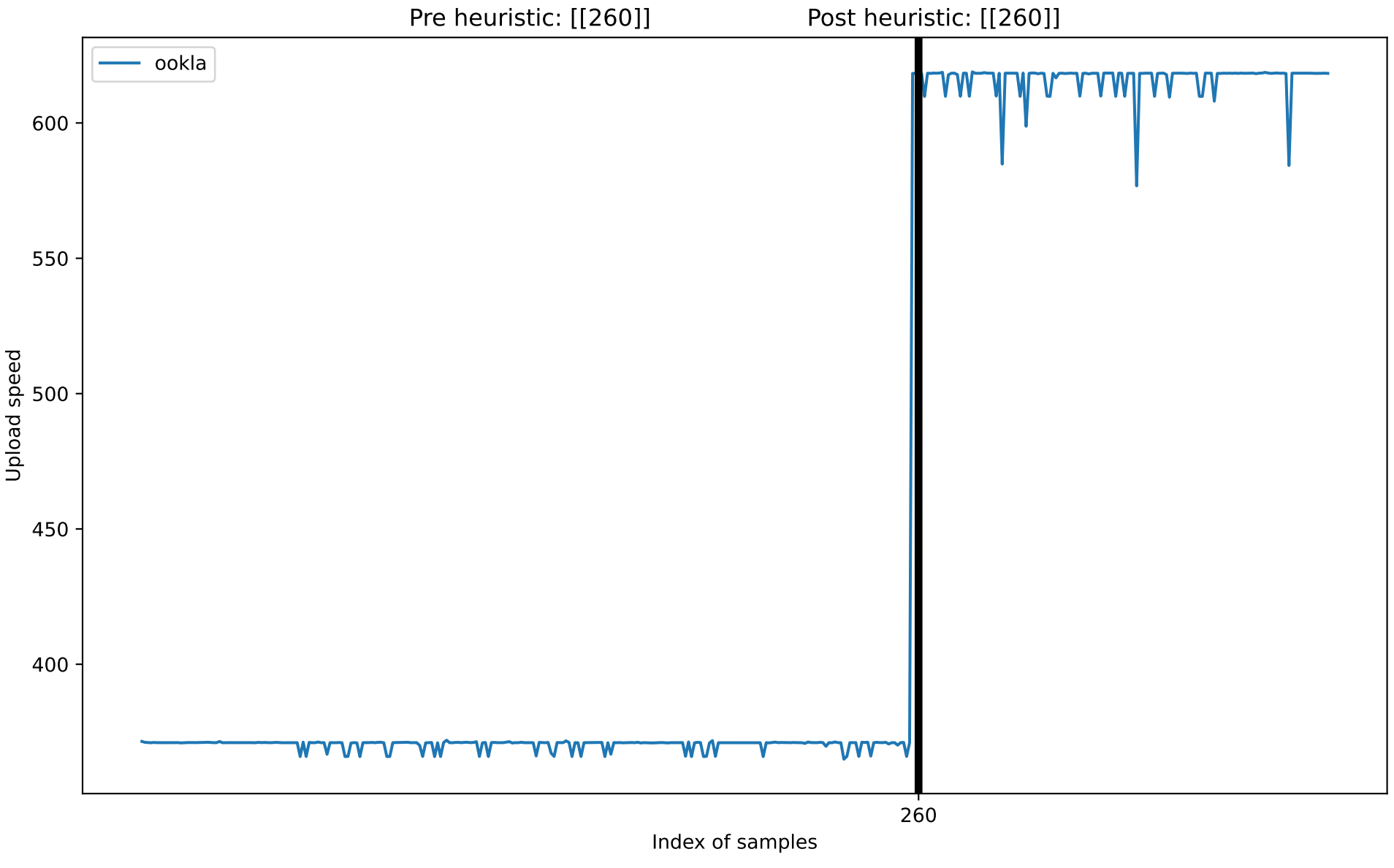

Pre heuristic: [[50]]
Post heuristic: [[50]]
ndt7
Download speed
600
500
400
300
200
100
0
50
Index of samples

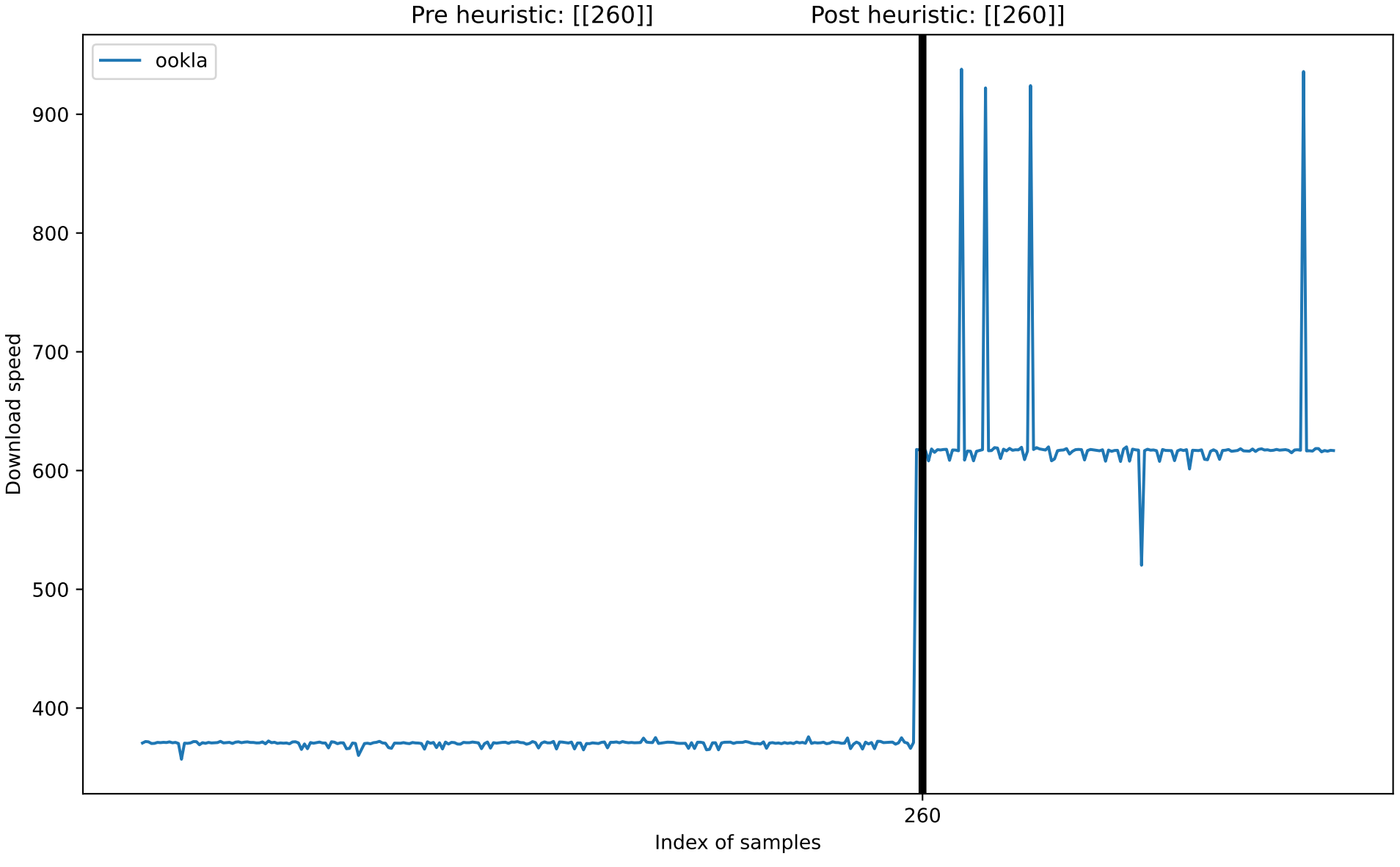

Pre heuristic: [[50]]
Post heuristic: [[50]]
ookla
Upload speed
Index of samples
0
100
200
300
400
500
600
700
50

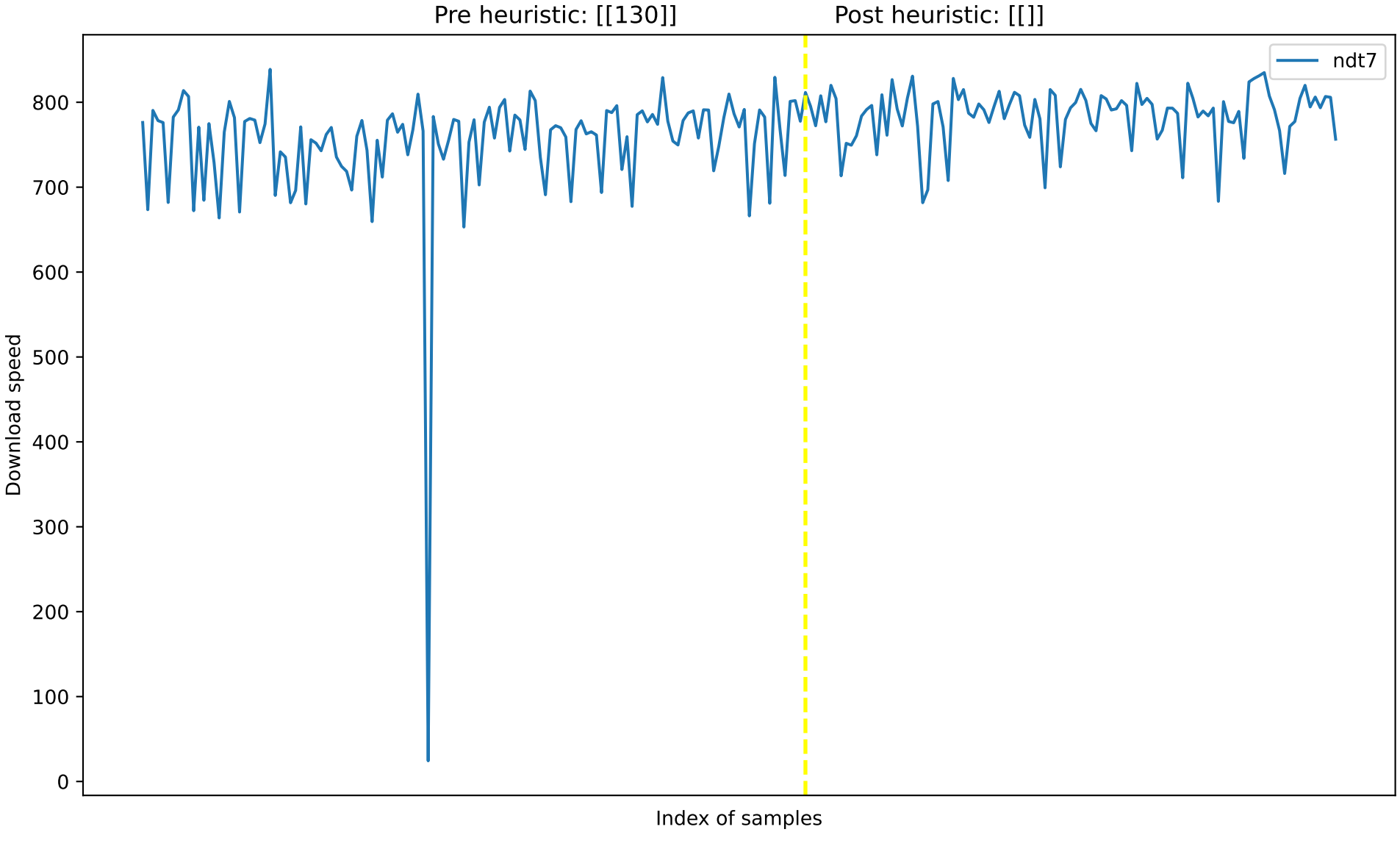

Pre heuristic: [[50]]
Post heuristic: [[50]]
ookla
Download speed
600
500
400
300
200
100
0
50
Index of samples

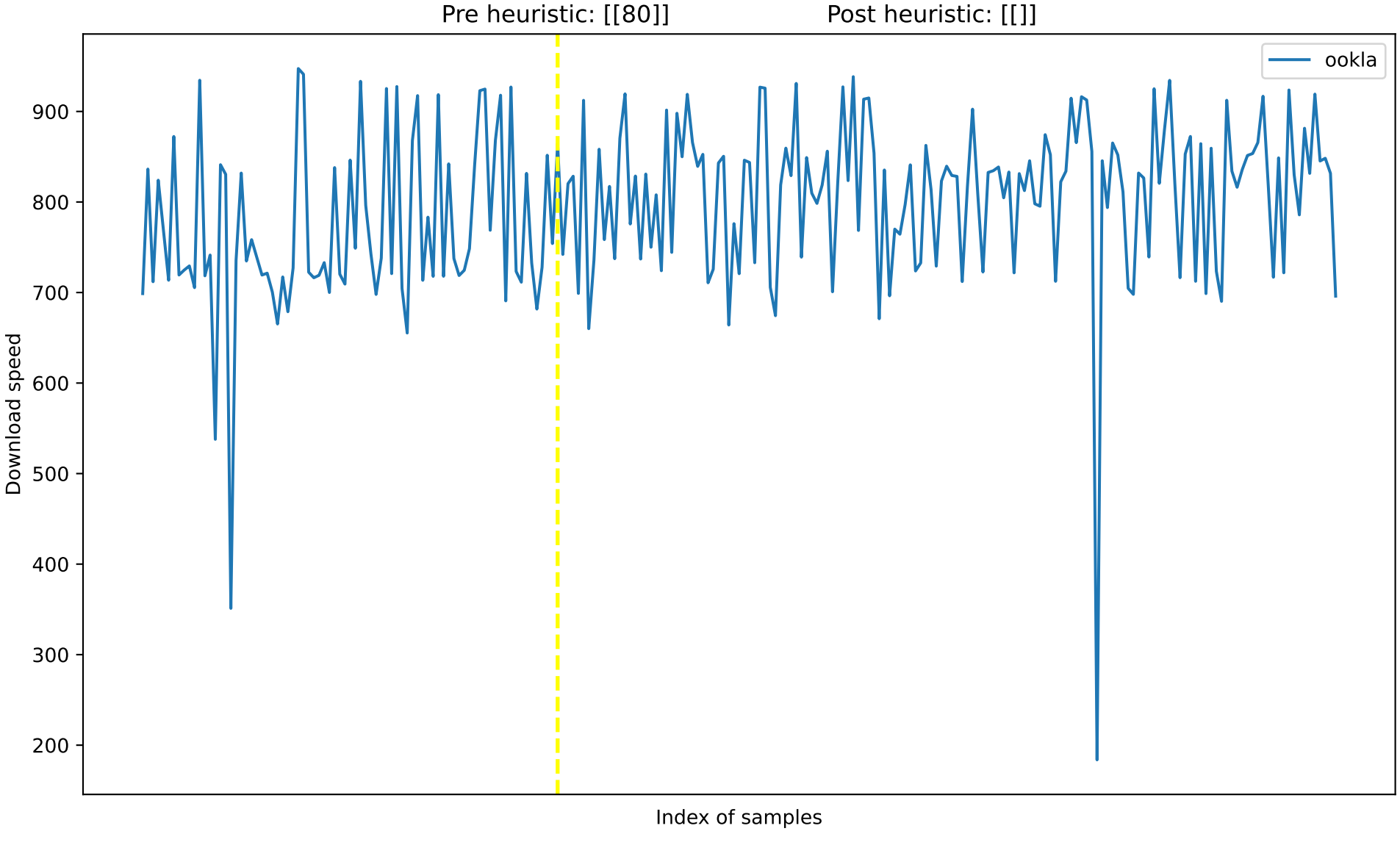

Pre heuristic: [[265]]
Post heuristic: [[265]]
ndt7
600
550
500
450
400
350
Upload speed
265
Index of samples

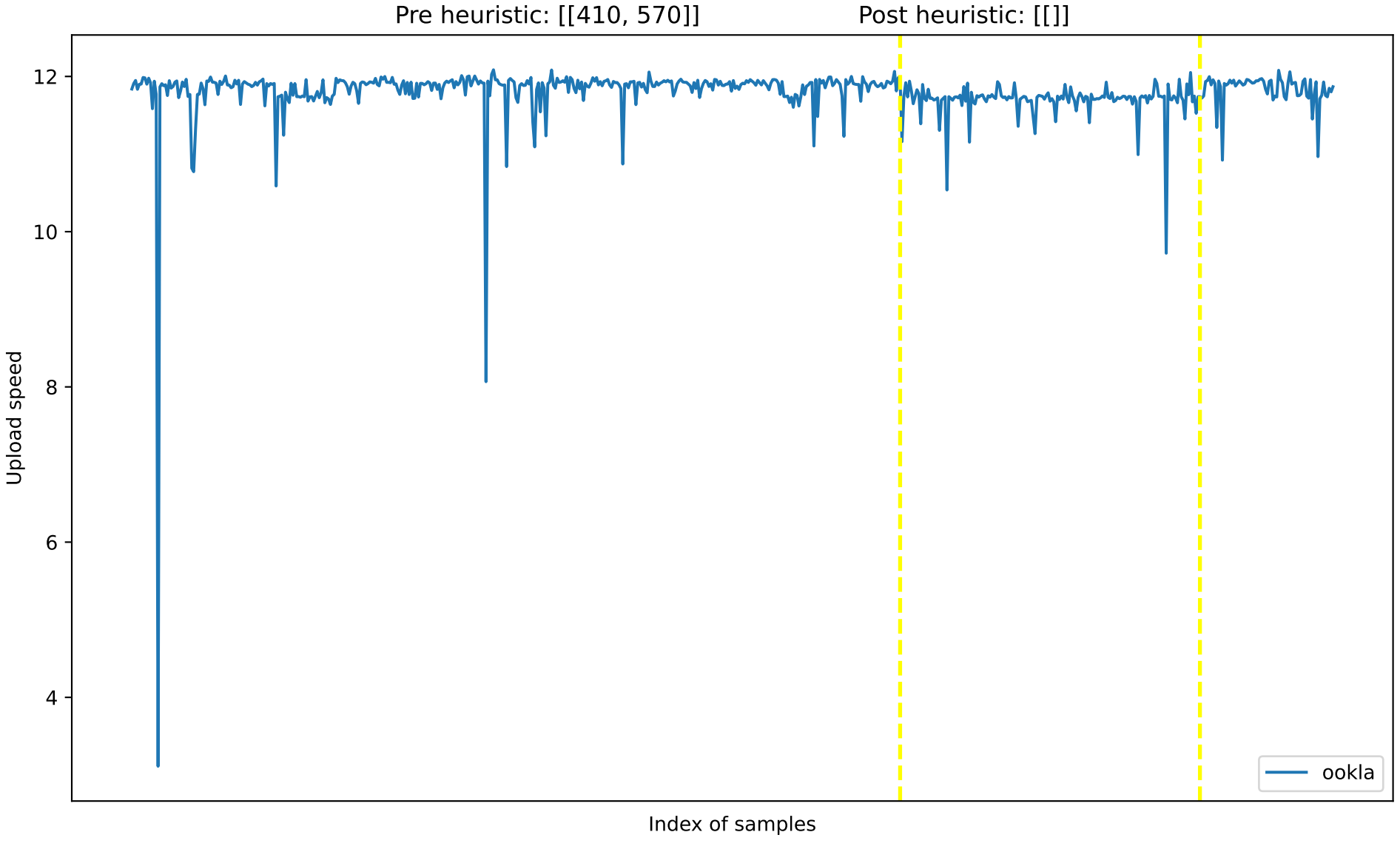

Pre heuristic: [[265]]
Post heuristic: [[265]]
ndt7
600
550
500
450
400
350
Download speed
265
Index of samples

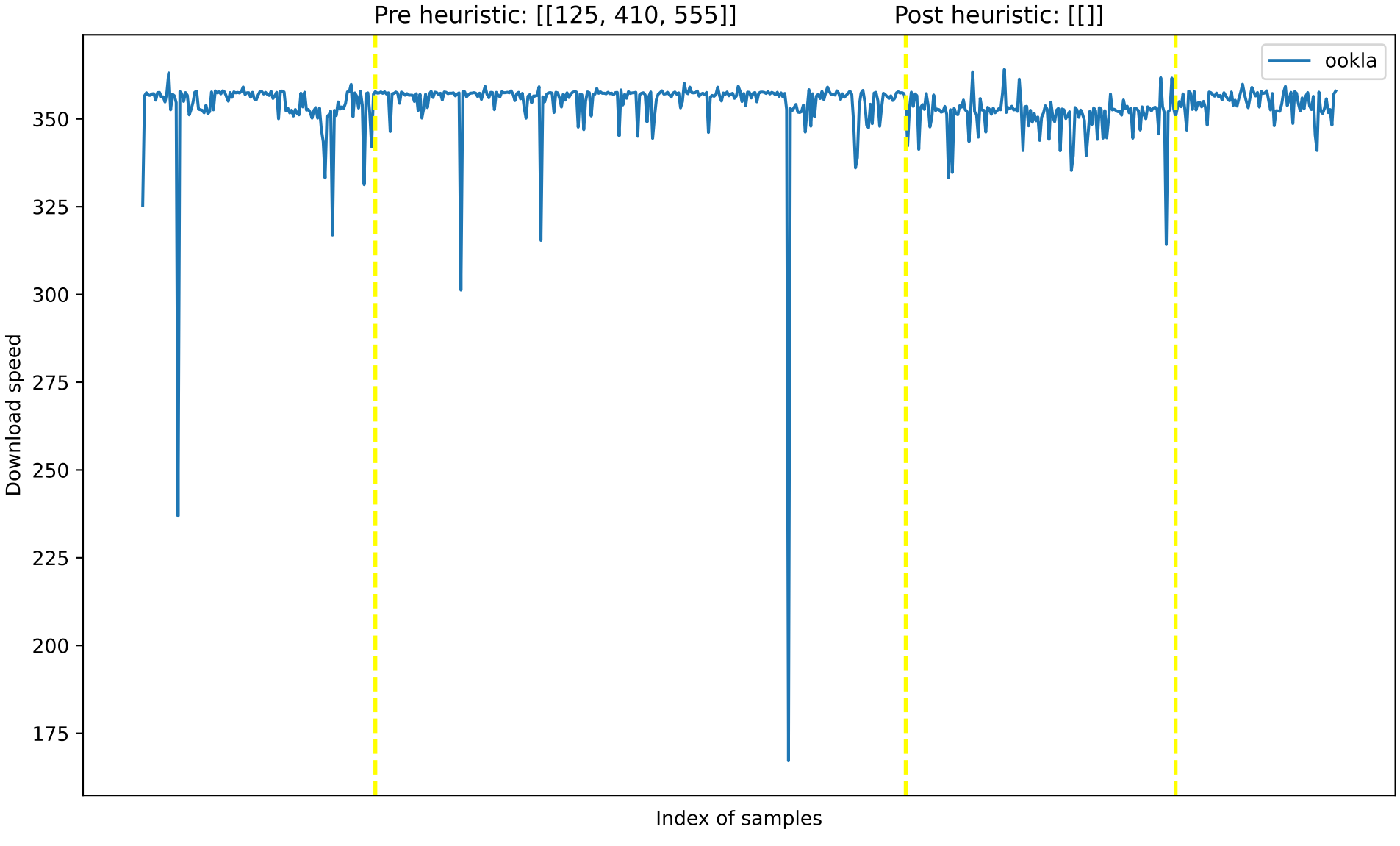

Pre heuristic: [[260]]
Post heuristic: [[260]]
ookla
600
550
500
450
400
Upload speed
260
Index of samples

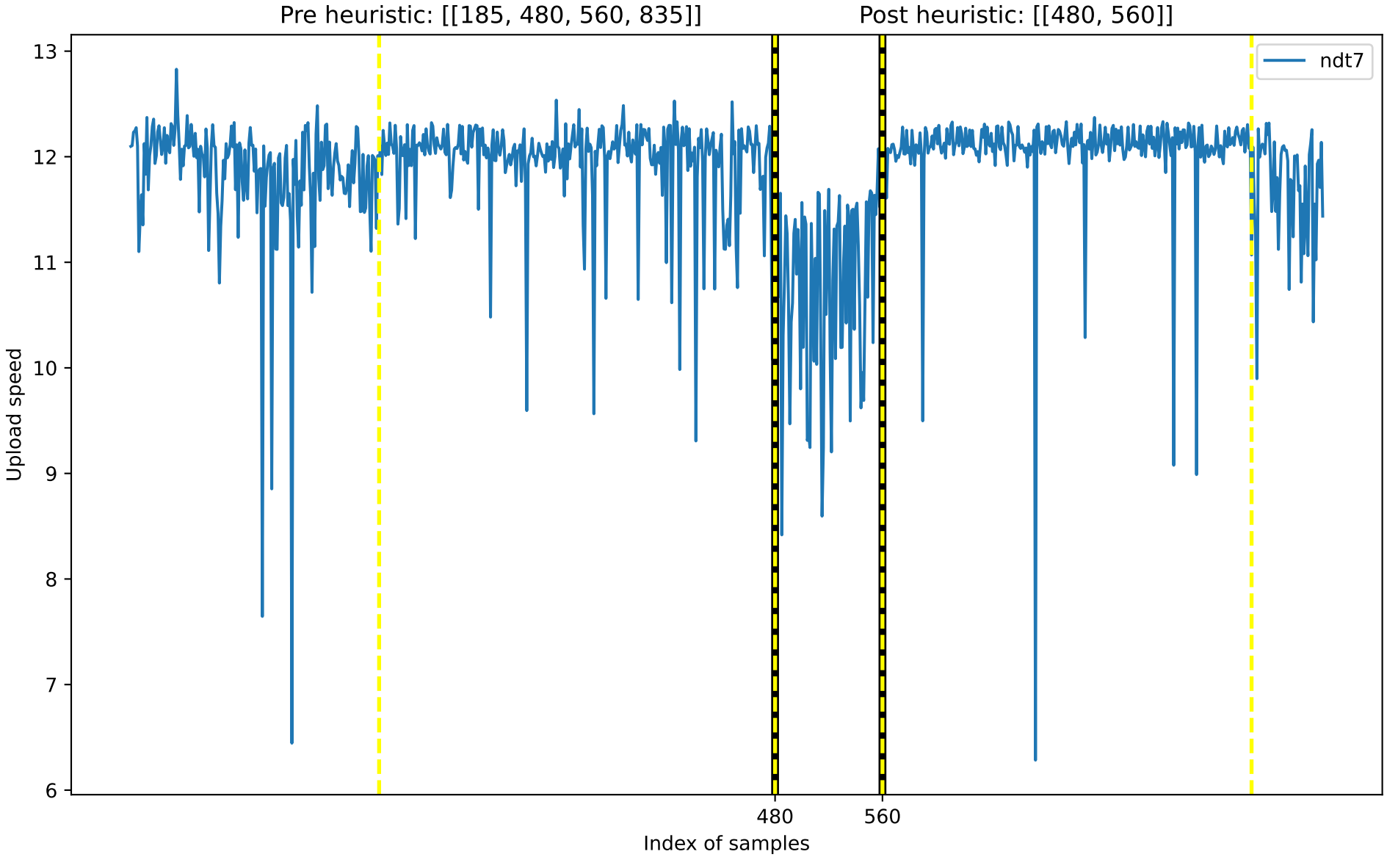

Pre heuristic: [[260]]
Post heuristic: [[260]]
ookla
900
800
700
600
500
400
Download speed
260
Index of samples

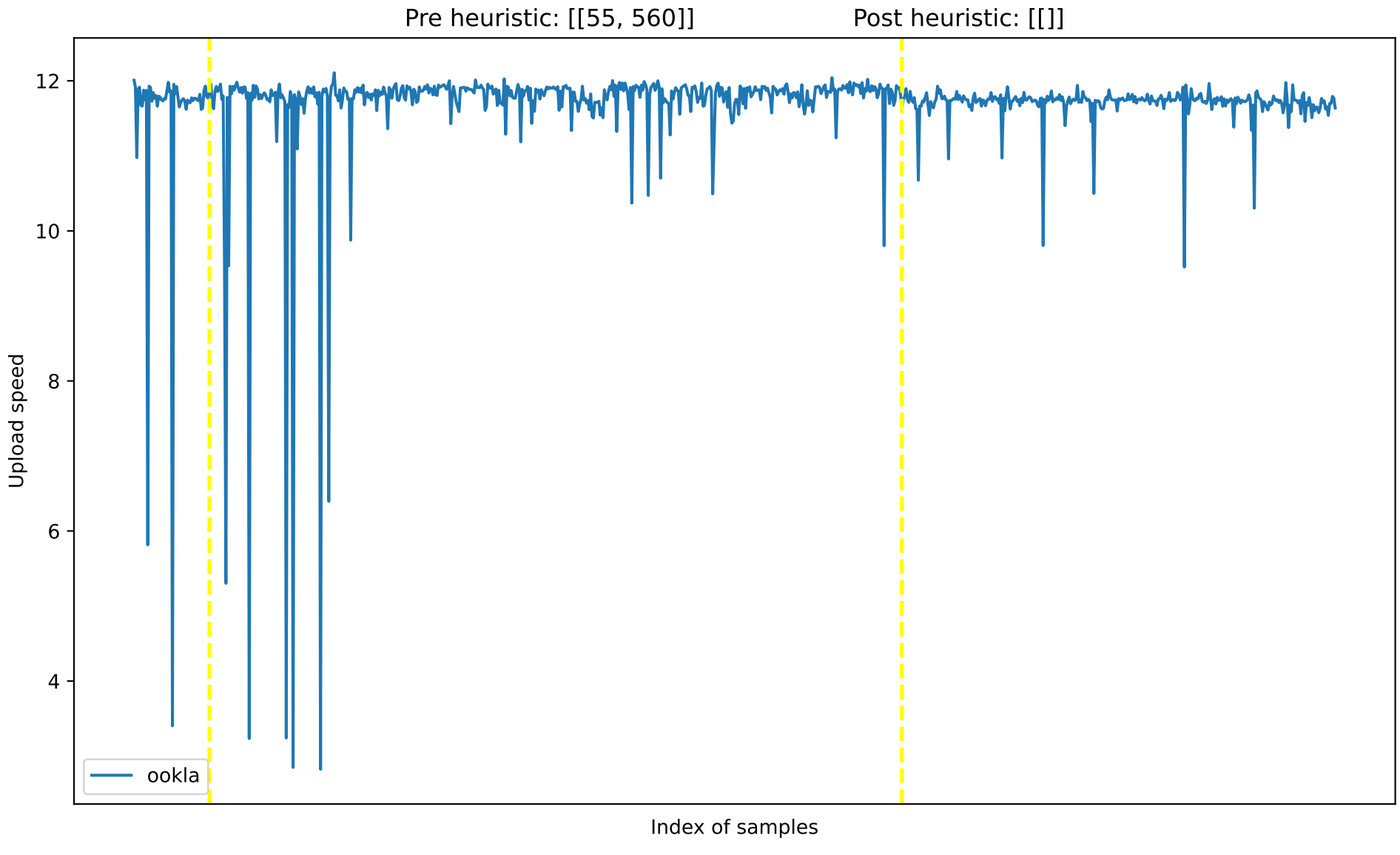

Pre heuristic: [[130]]
Post heuristic: [[]]
ndt7
Download speed
0
100
200
300
400
500
600
700
800
Index of samples

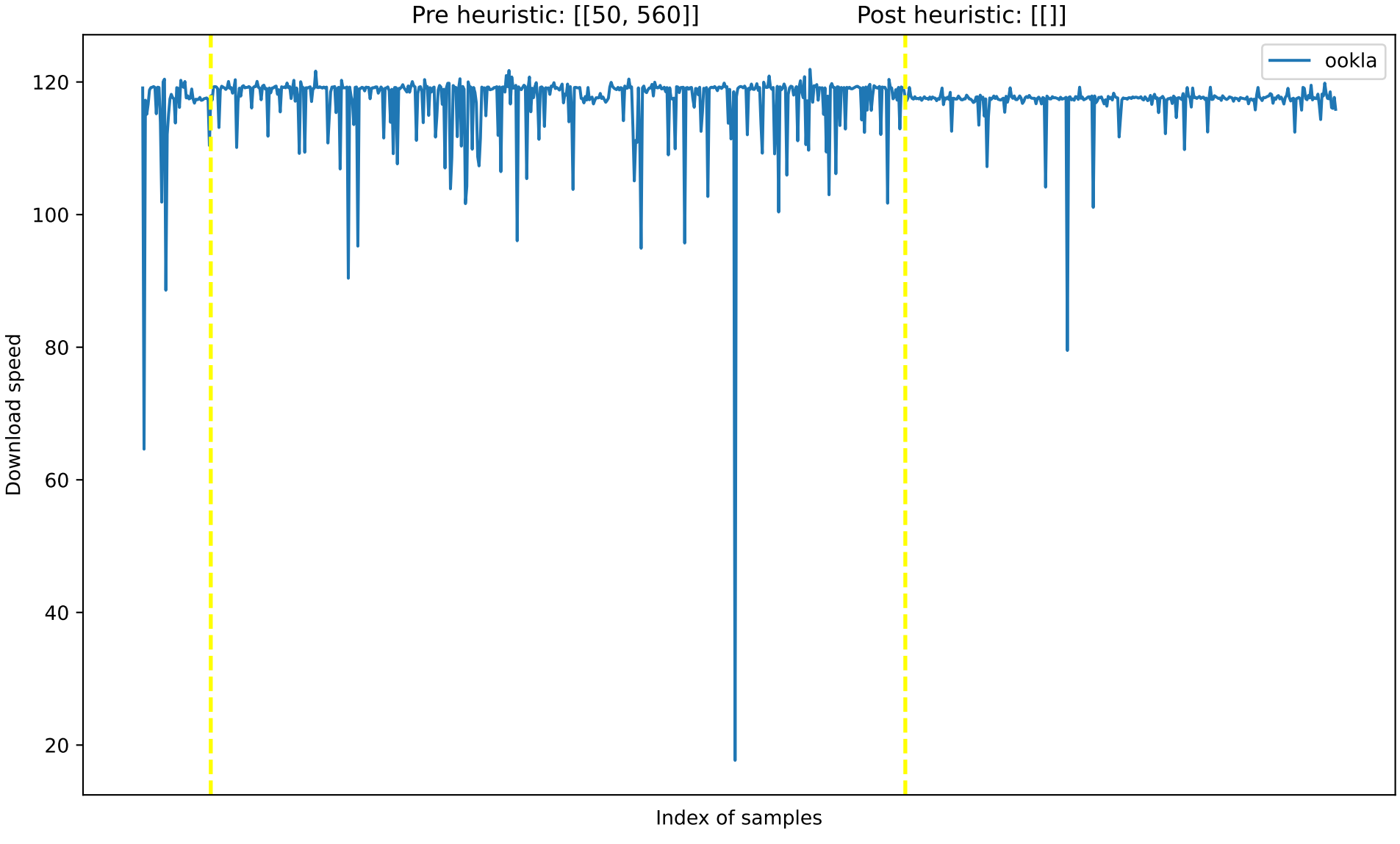

Pre heuristic: [[80]]
Post heuristic: [[]]
ookla
900
800
700
600
500
400
300
200
Download speed
Index of samples

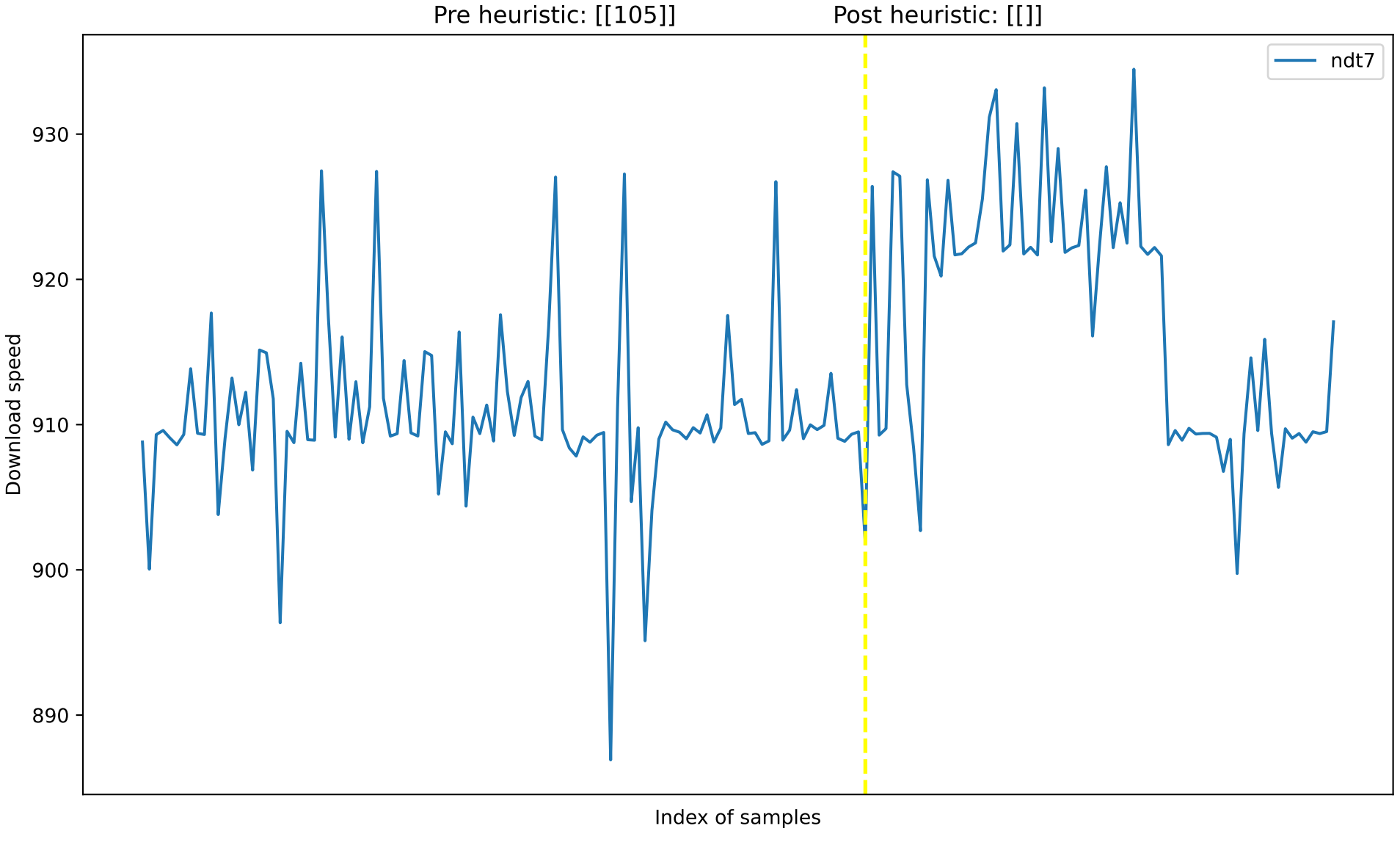

Pre heuristic: [[410, 570]]
Post heuristic: [[]]
Upload speed
12
10
8
6
4
Index of samples
ookla

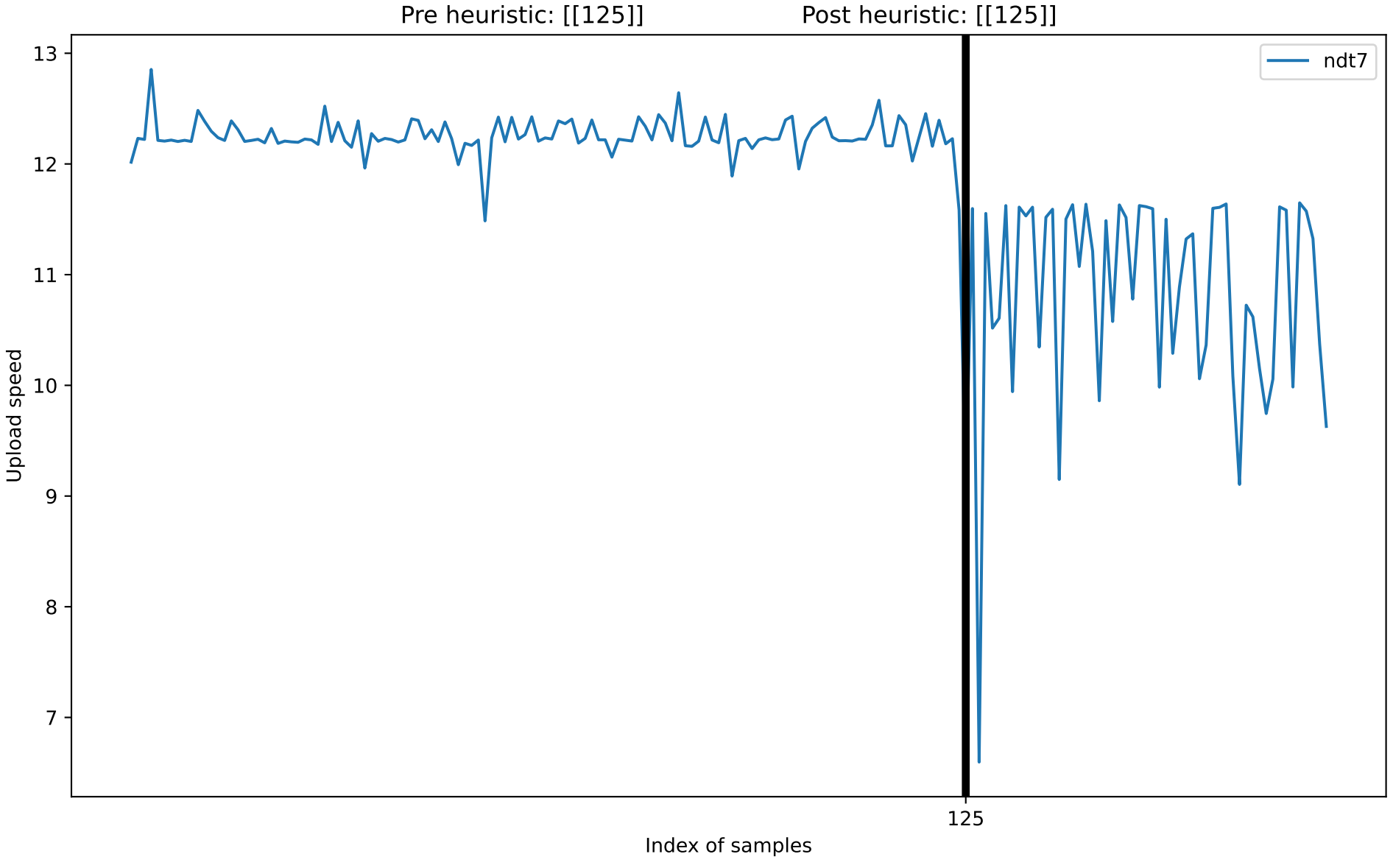

Pre heuristic: [[125, 410, 555]]
Post heuristic: [[]]
ookla
Download speed
350
325
300
275
250
225
200
175
Index of samples

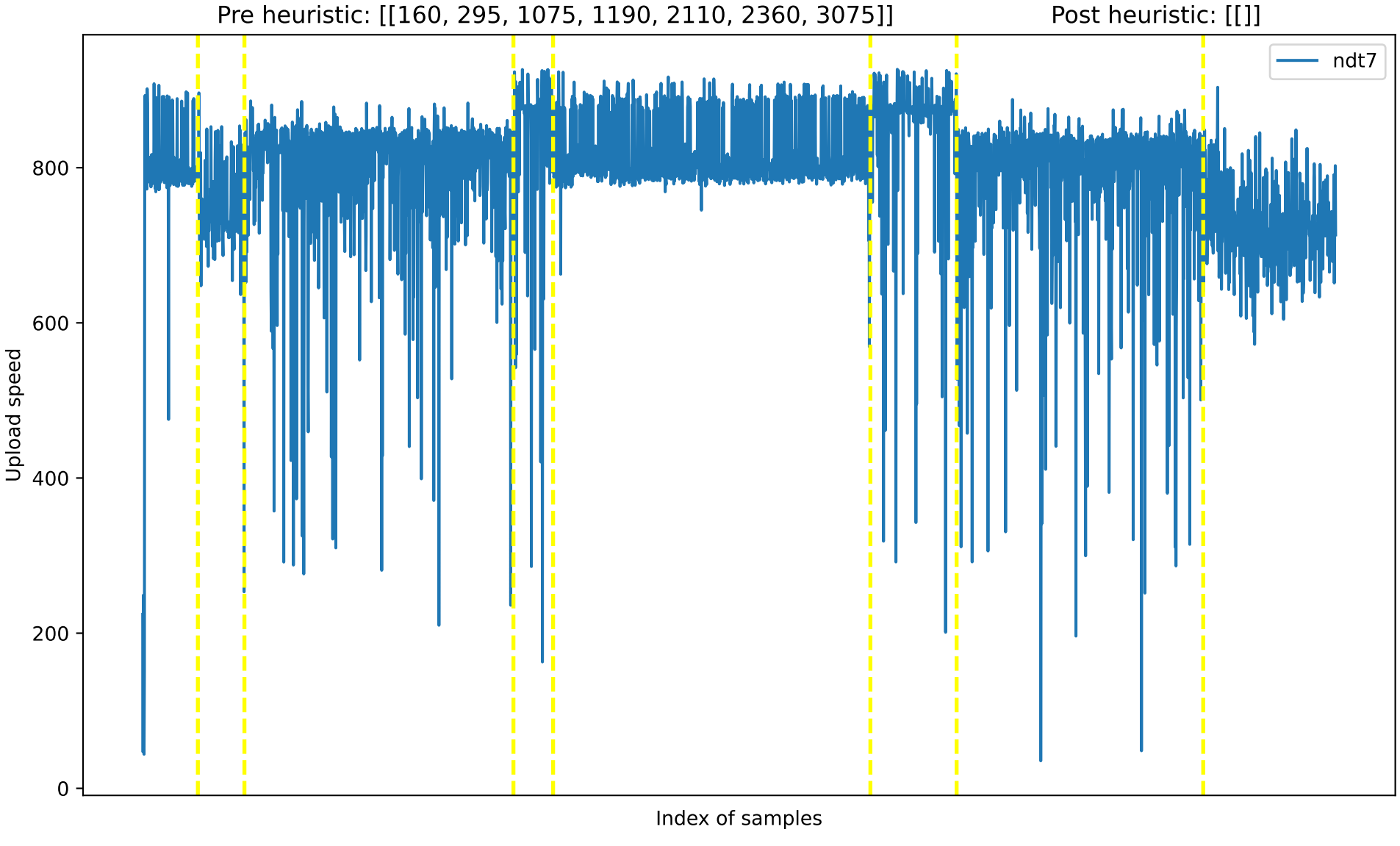

Pre heuristic: [[185, 480, 560, 835]]
Post heuristic: [[480, 560]]
ndt7
Upload speed
Index of samples
13
12
11
10
9
8
7
6
480
560

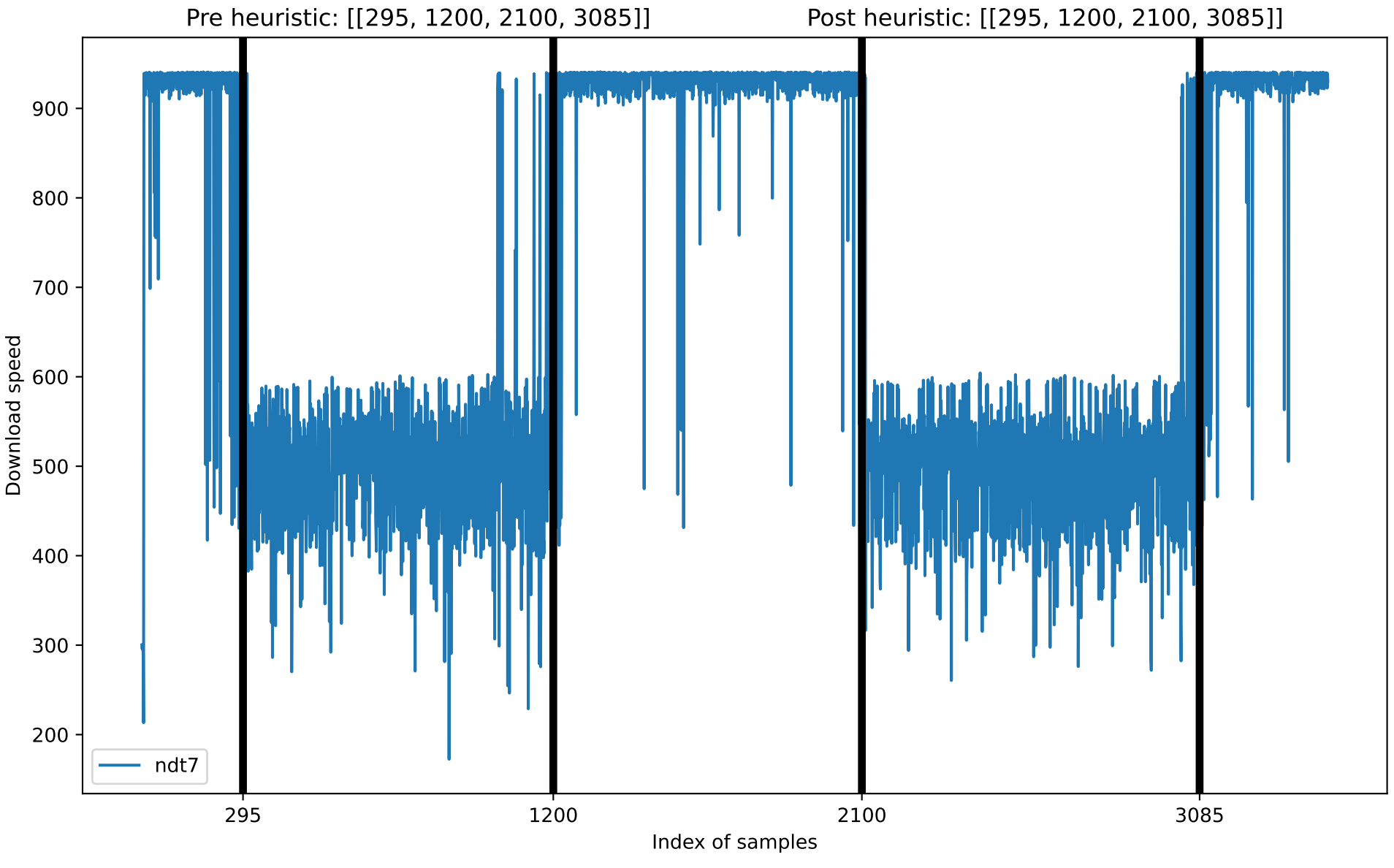

Pre heuristic: [[55, 560]]
Post heuristic: [[]]
Upload speed
12
10
8
6
4
ookla
Index of samples

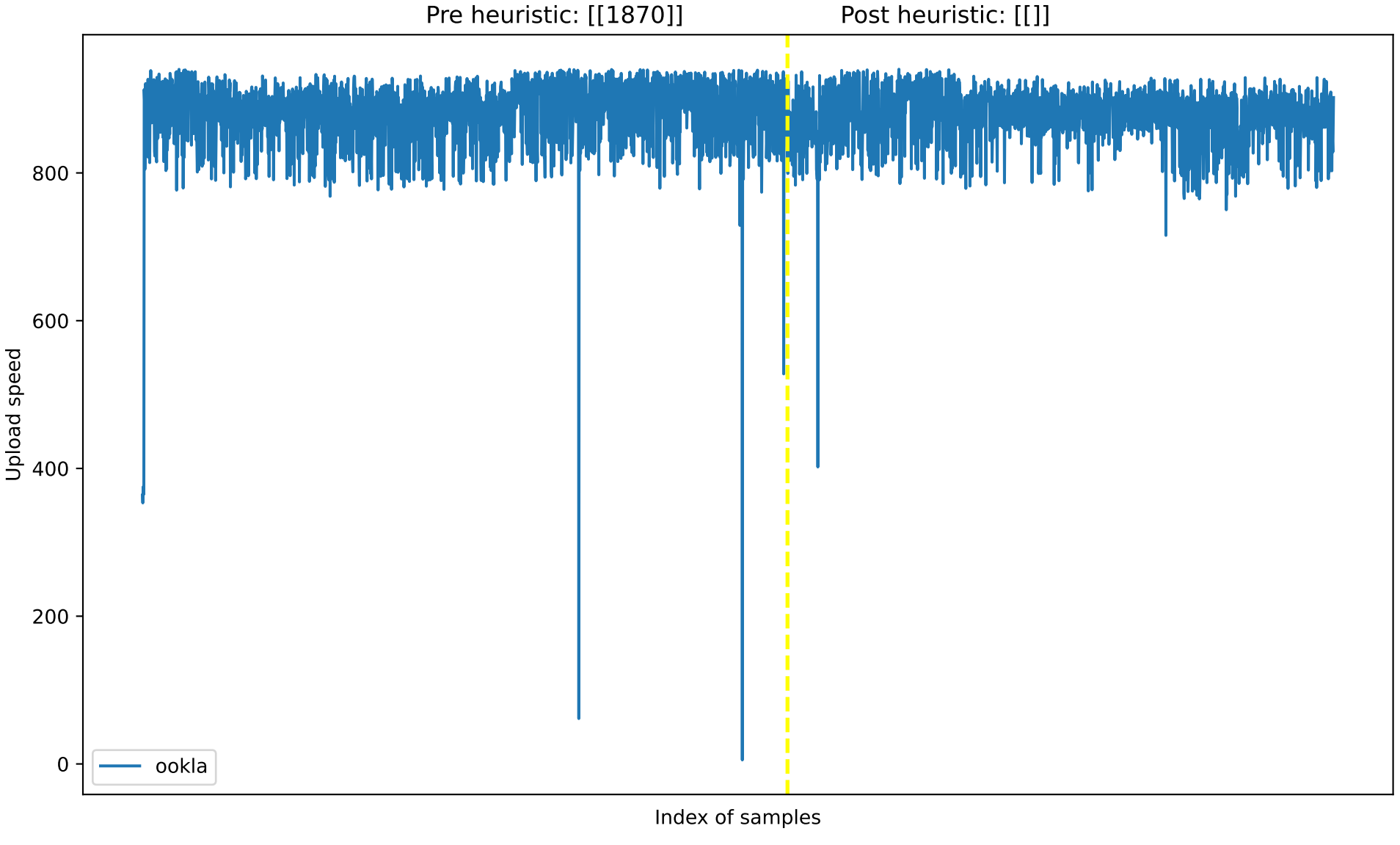

Pre heuristic: [[50, 560]]
Post heuristic: [[]]
ookla
120
100
80
60
40
20
Download speed
Index of samples

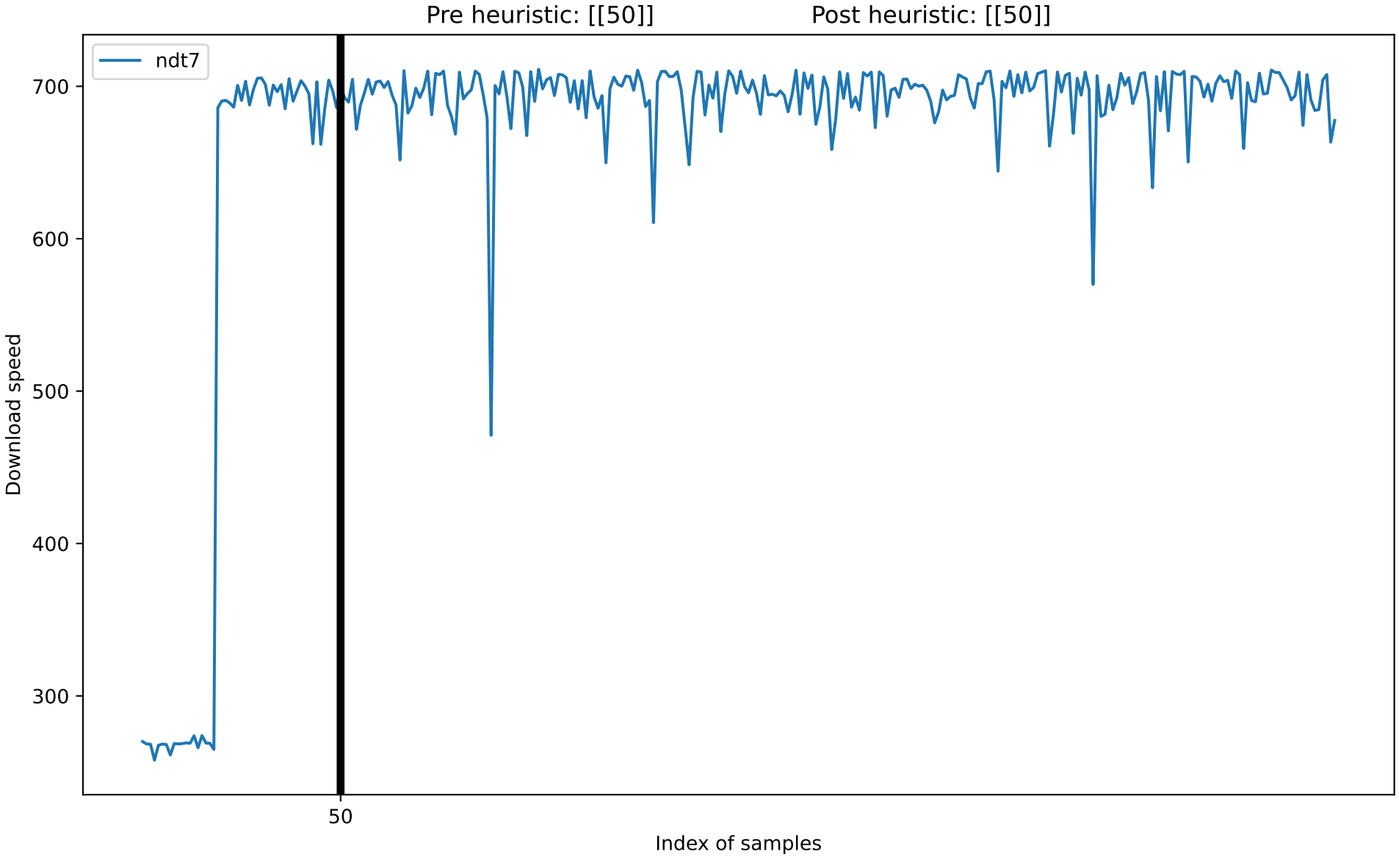

Pre heuristic: [[105]]
Post heuristic: [[]]
ndt7
930
920
910
900
890
Download speed
Index of samples

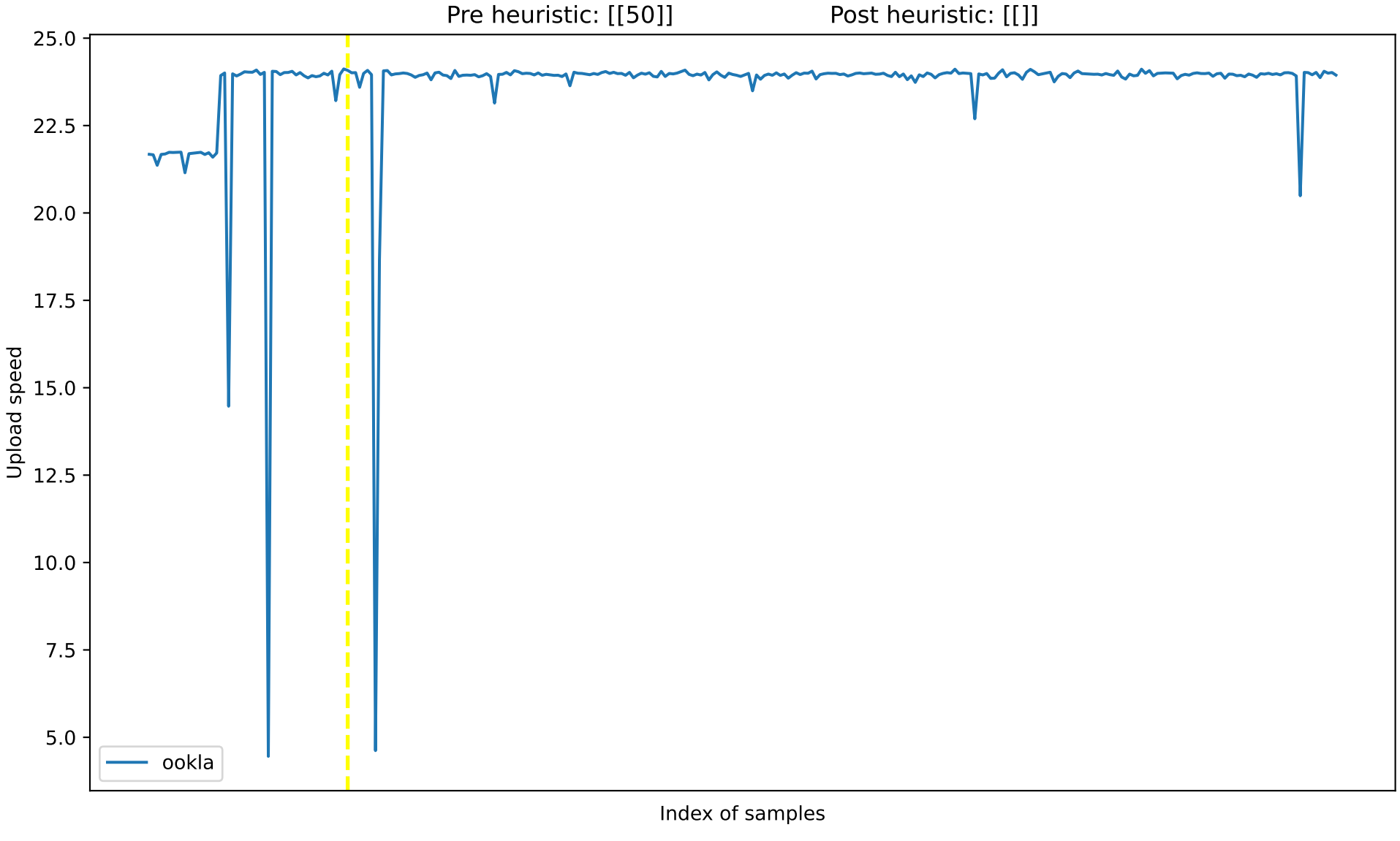

Pre heuristic: [[125]]
Post heuristic: [[125]]
ndt7
Upload speed
13
12
11
10
9
8
7
125
Index of samples

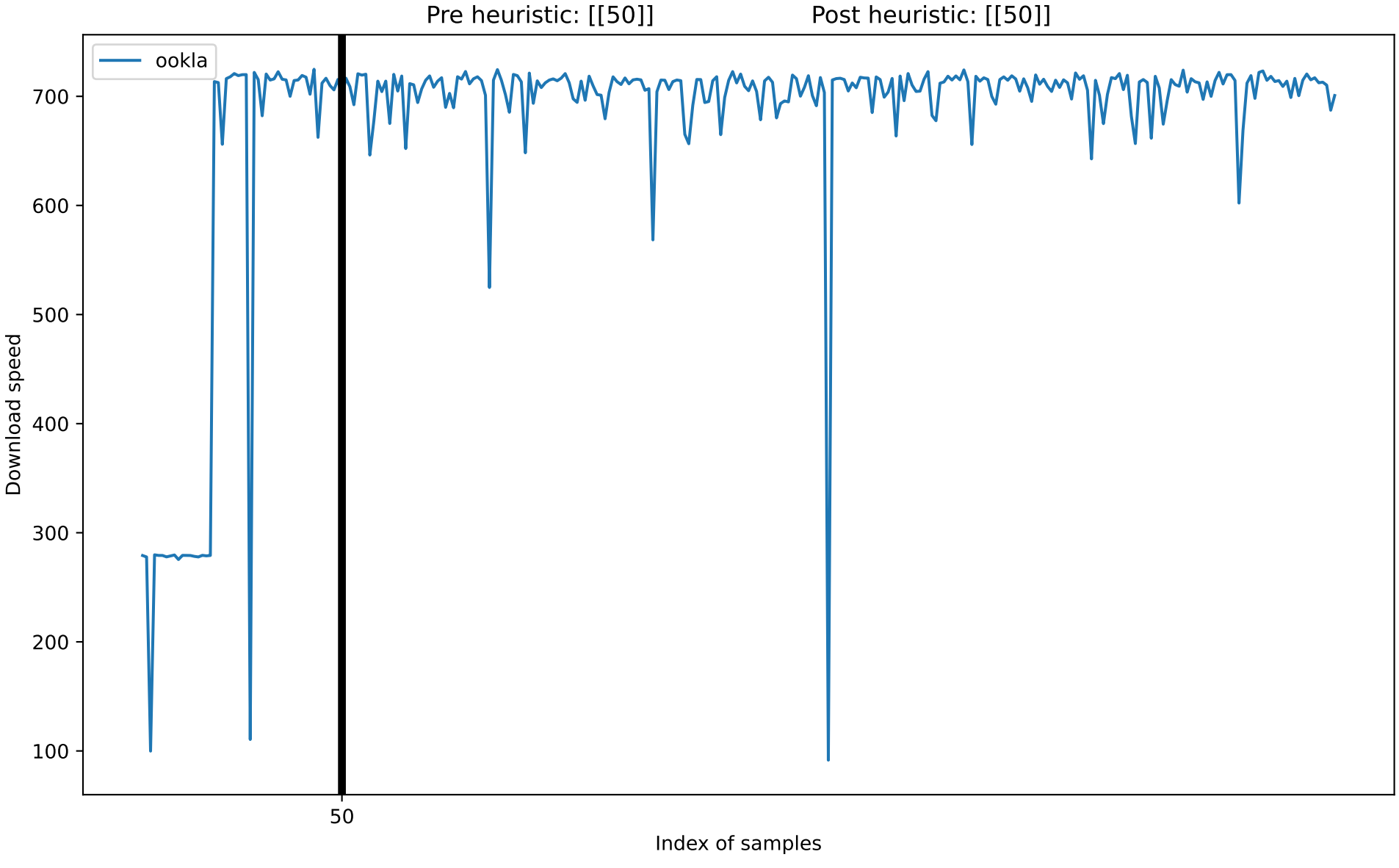

Pre heuristic: [[160, 295, 1075, 1190, 2110, 2360, 3075]]
Post heuristic: [[]]
ndt7
Upload speed
0
200
400
600
800
Index of samples

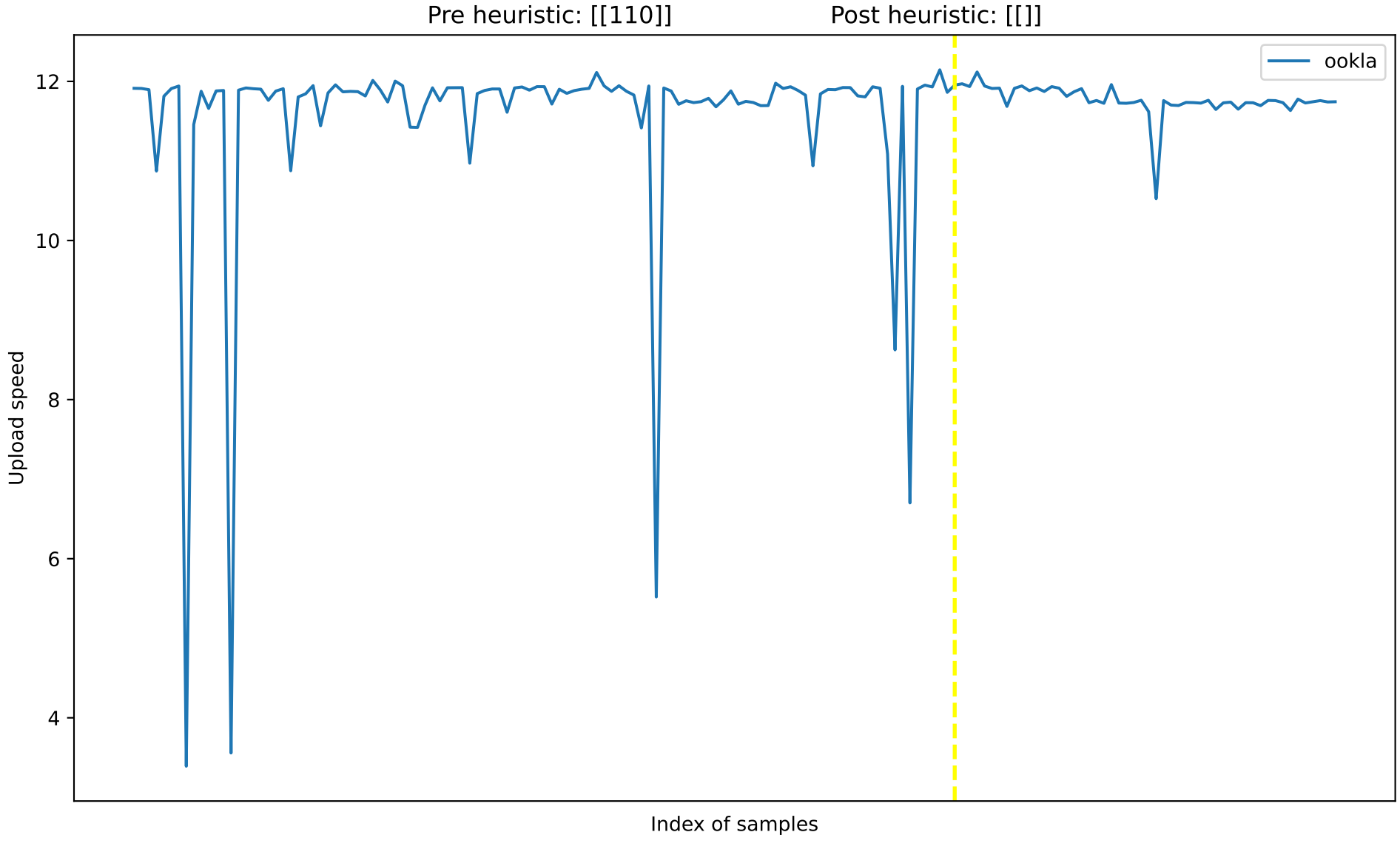

Pre heuristic: [[295, 1200, 2100, 3085]]
Post heuristic: [[295, 1200, 2100, 3085]]
Download speed
900
800
700
600
500
400
300
200
ndt7
295
1200
2100
3085
Index of samples

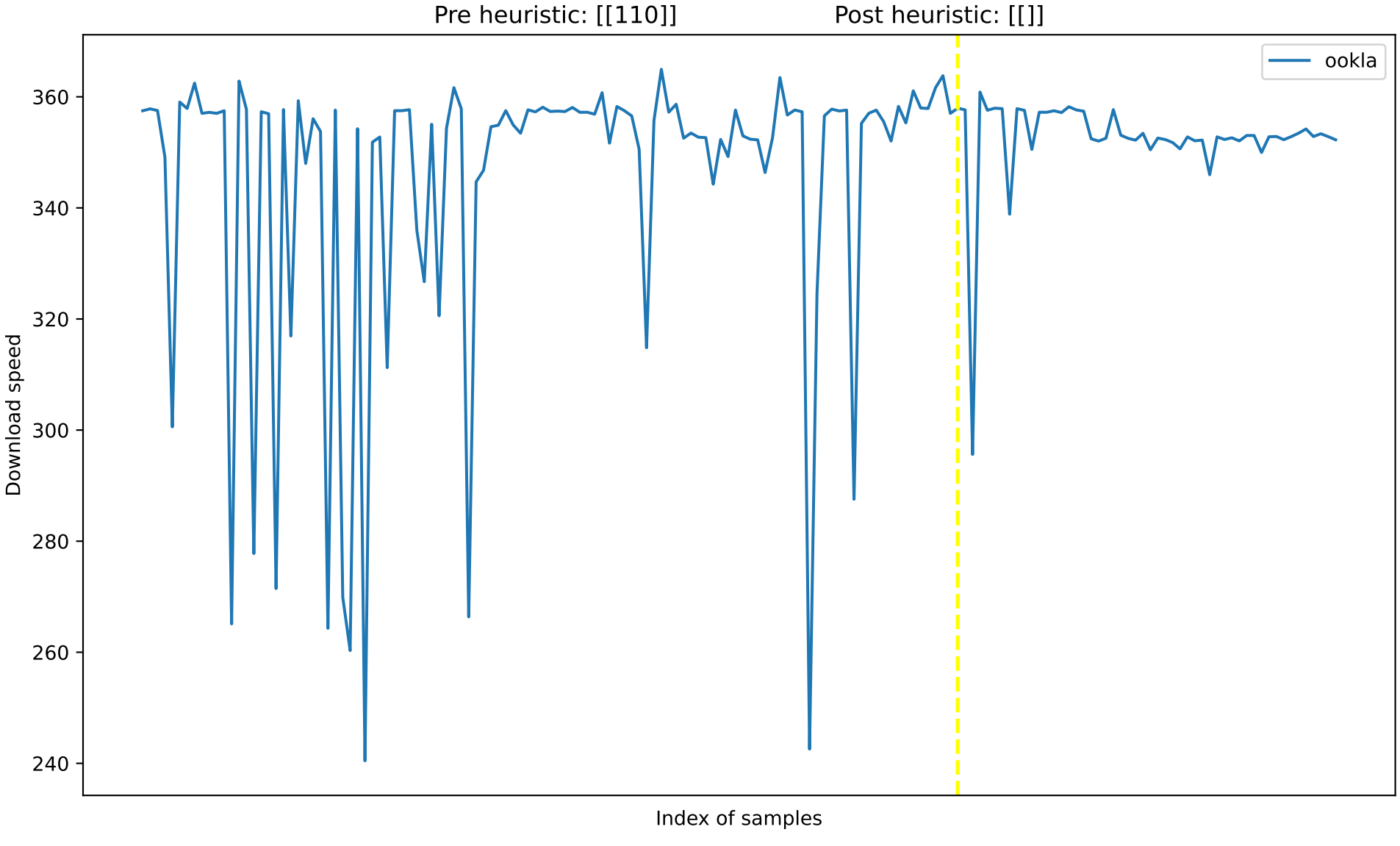

Pre heuristic: [[1870]]
Post heuristic: [[]]
Upload speed
800
600
400
200
0
ookla
Index of samples

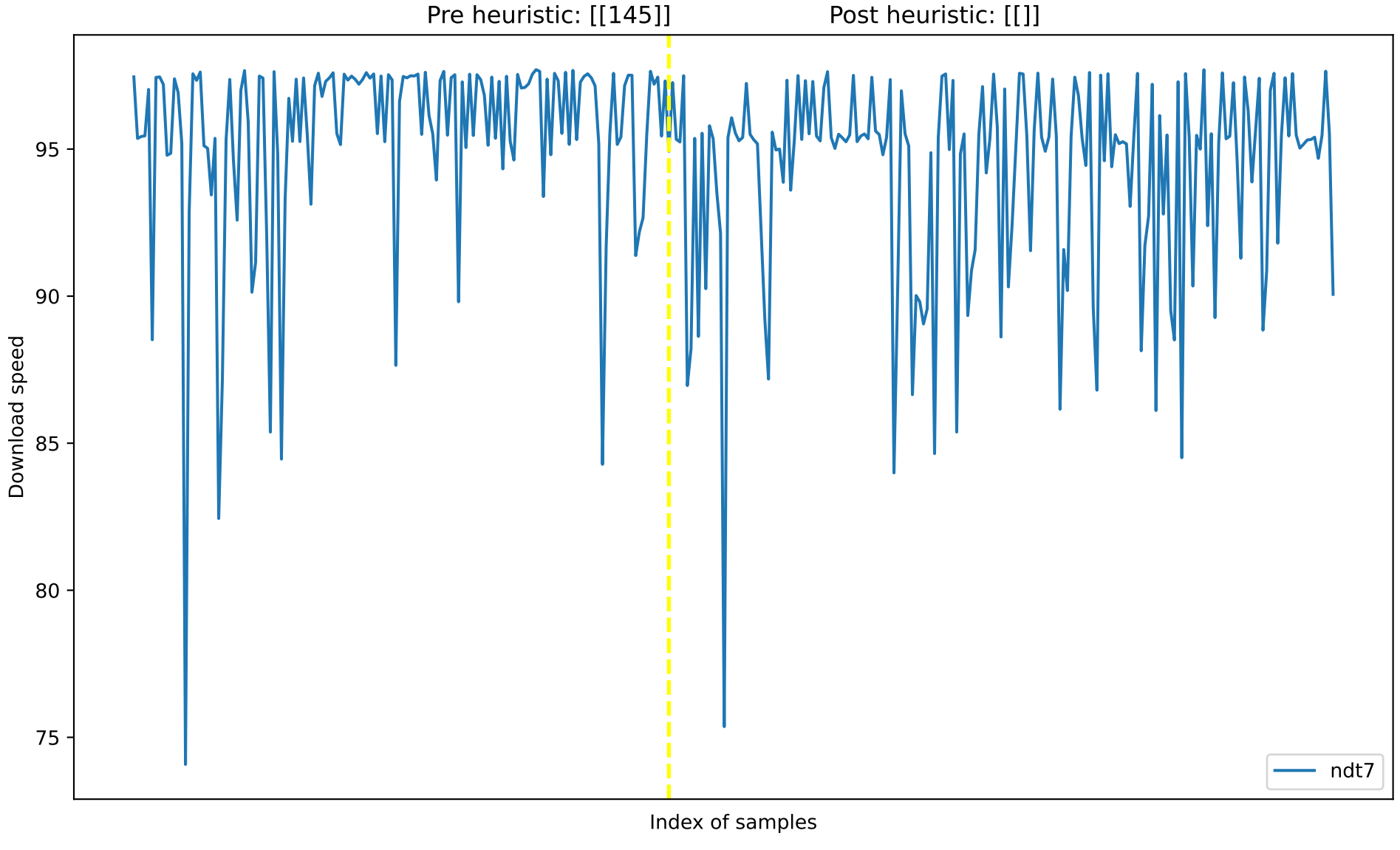

Pre heuristic: [[50]]
Post heuristic: [[50]]
ndt7
700
600
500
400
300
Download speed
50
Index of samples

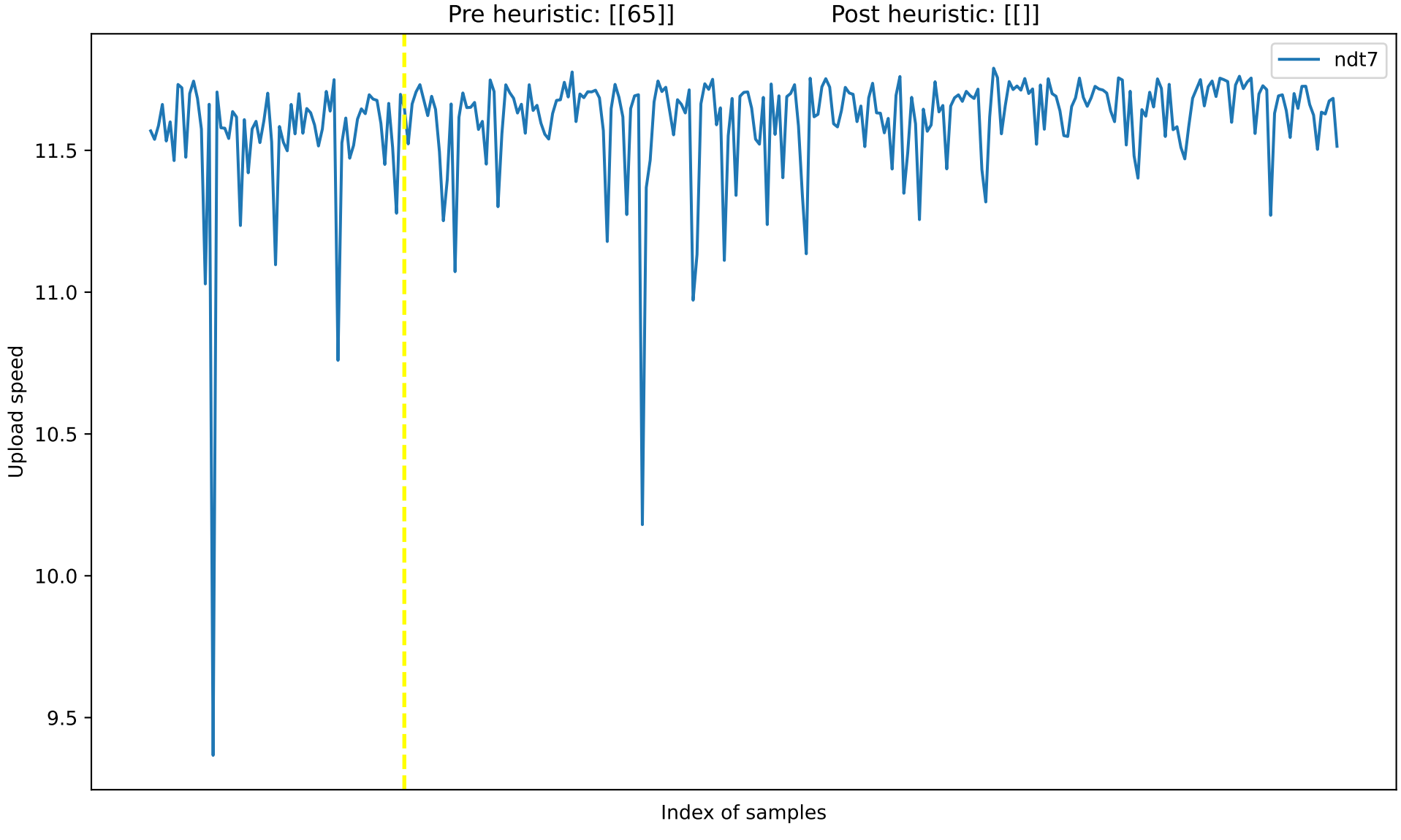

Pre heuristic: [[50]]
Post heuristic: [[]]
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
Upload speed
ookla
Index of samples

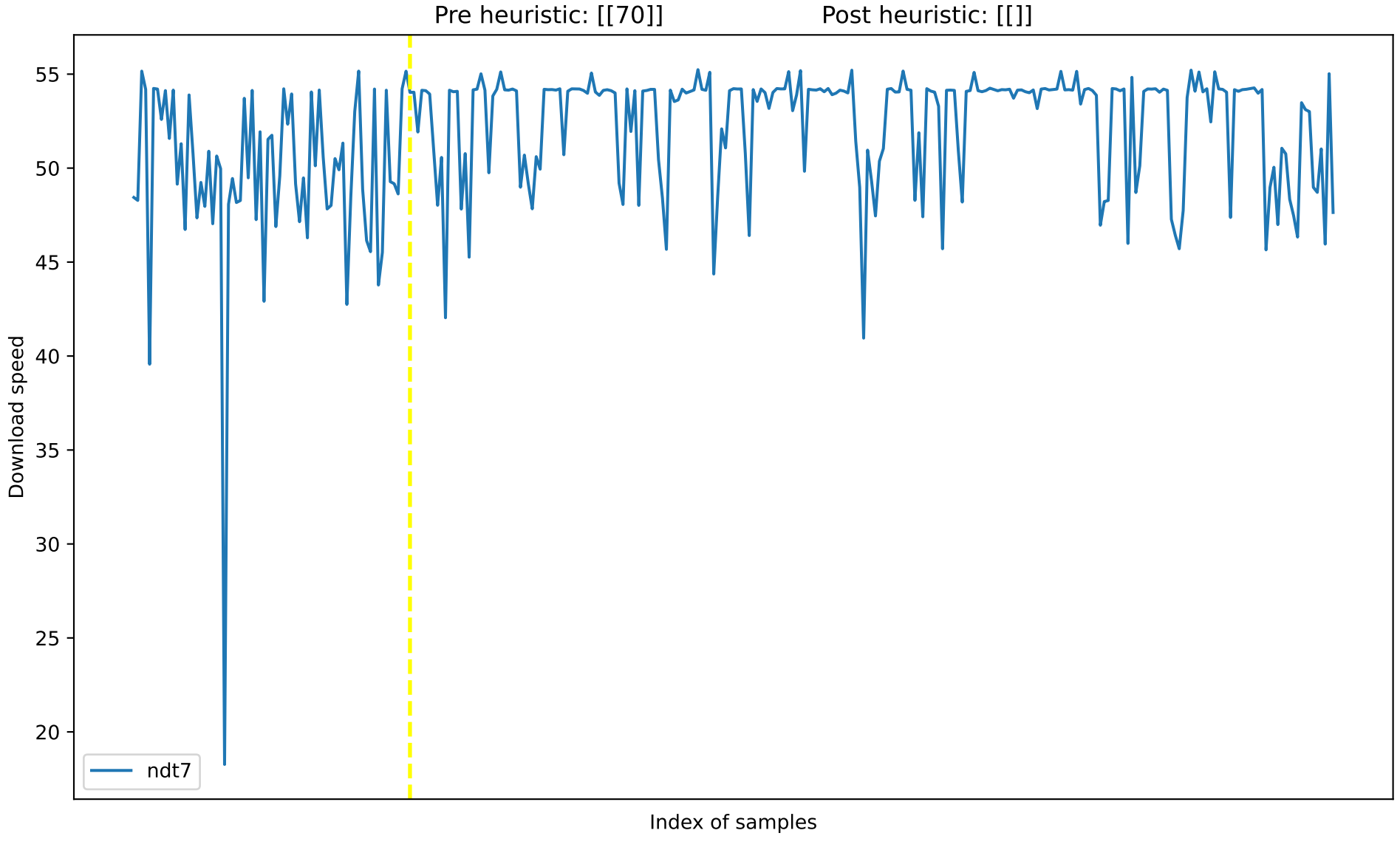

Pre heuristic: [[50]]
Post heuristic: [[50]]
ookla
Download speed
700
600
500
400
300
200
100
50
Index of samples

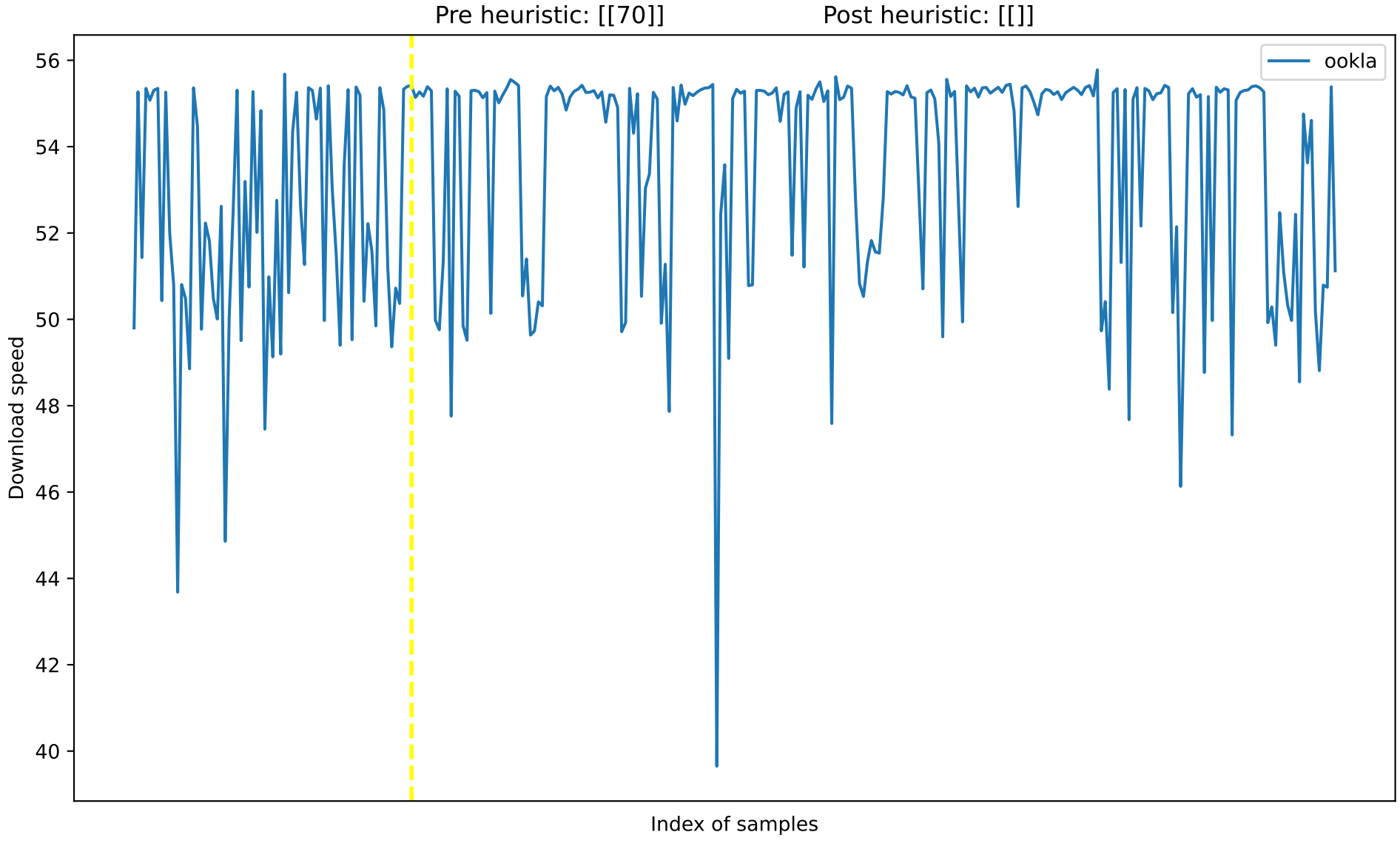

Pre heuristic: [[110]]
Post heuristic: [[]]
ookla
12
10
8
6
4
Upload speed
Index of samples

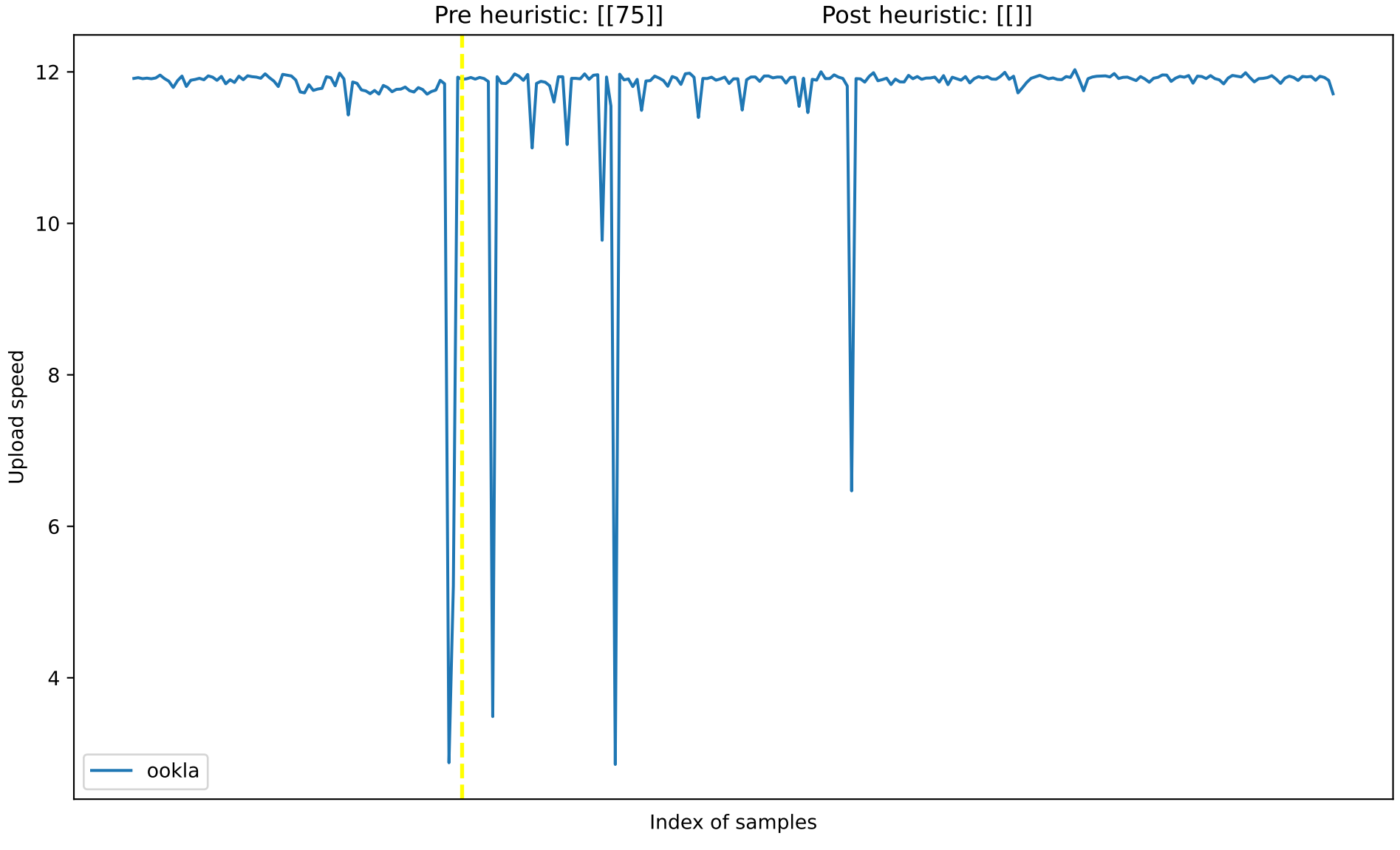

Pre heuristic: [[110]]
Post heuristic: [[]]
ookla
Download speed
360
340
320
300
280
260
240
Index of samples


Pre heuristic: [[145]]
Post heuristic: [[]]
Download speed
95
90
85
80
75
Index of samples
ndt7


Pre heuristic: [[65]]
Post heuristic: [[]]
ndt7
Upload speed
11.5
11.0
10.5
10.0
9.5
Index of samples


Pre heuristic: [[70]]
Post heuristic: [[]]
Download speed
Index of samples
ndt7
55
50
45
40
35
30
25
20


Pre heuristic: [[70]]
Post heuristic: [[]]
ookla
Download speed
Index of samples
56
54
52
50
48
46
44
42
40


Pre heuristic: [[75]]
Post heuristic: [[]]
Upload speed
12
10
8
6
4
ookla
Index of samples