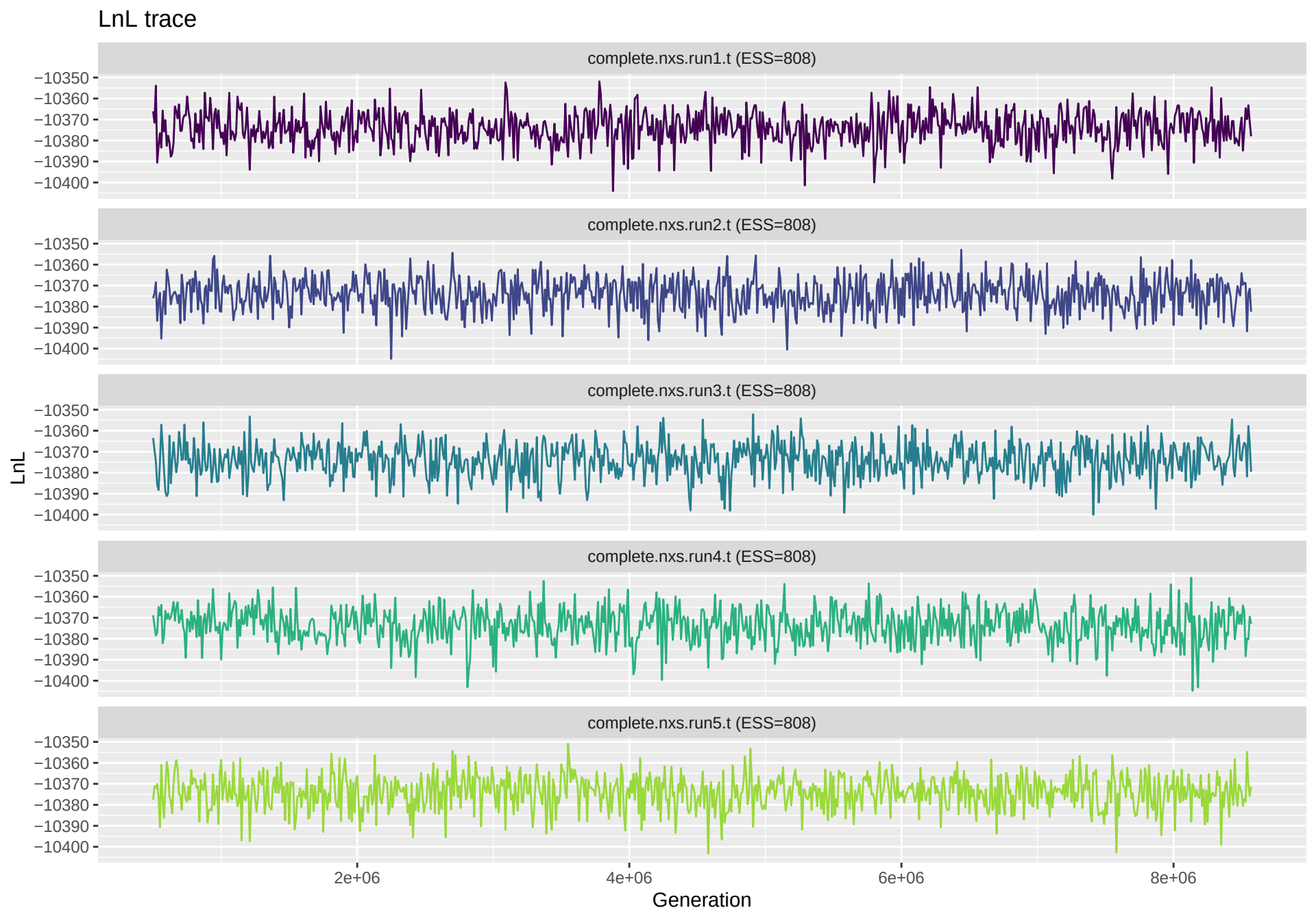
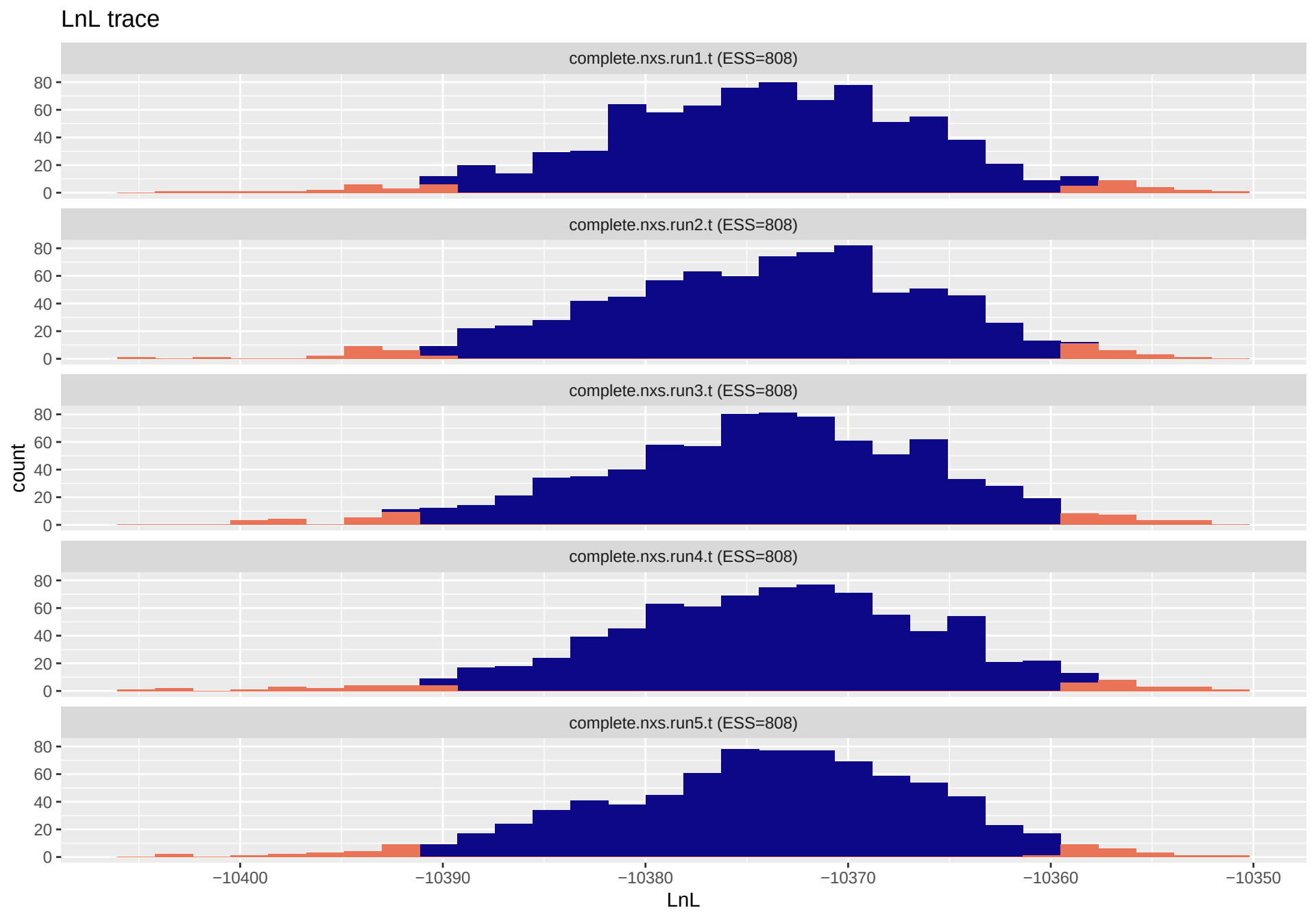
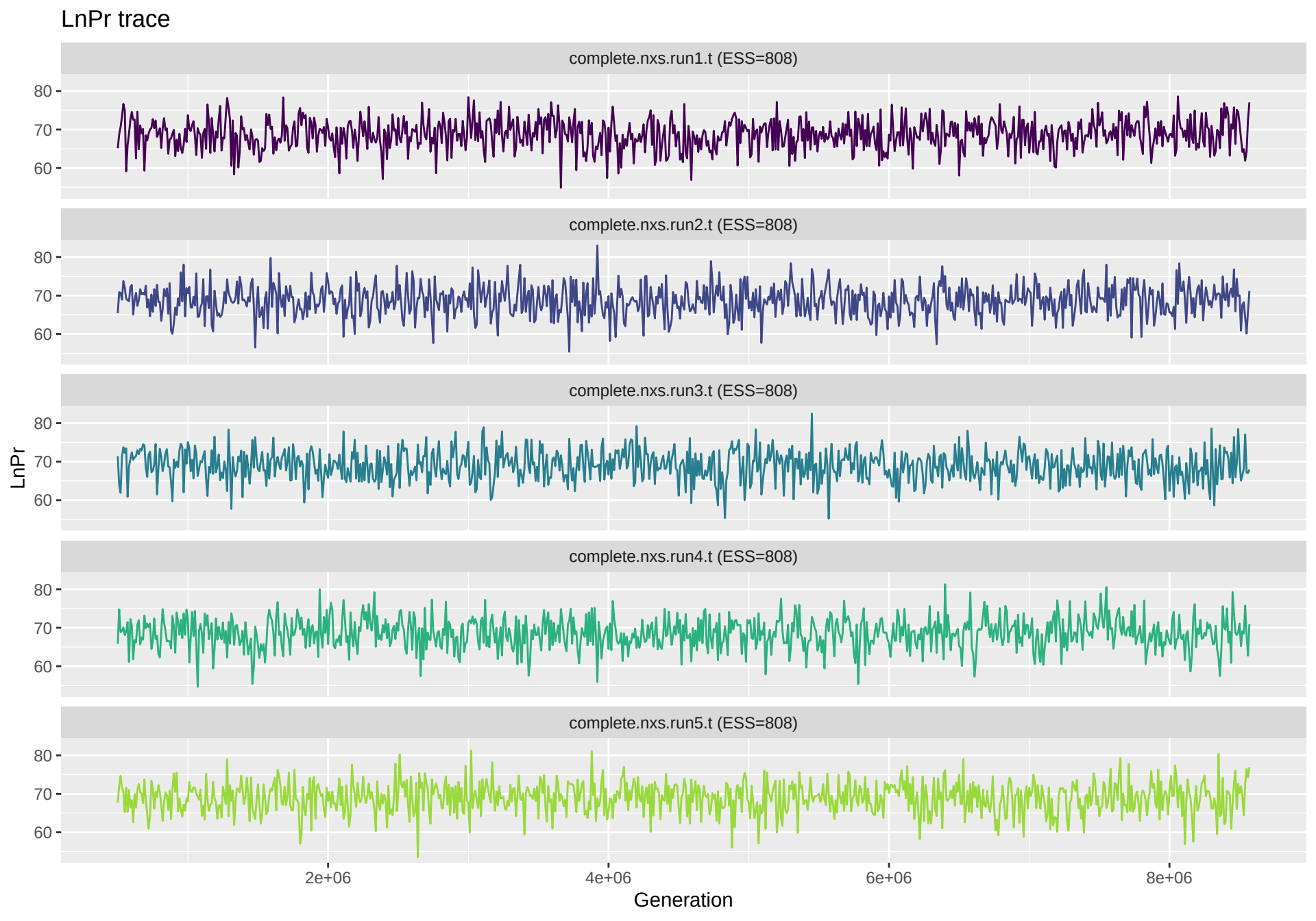
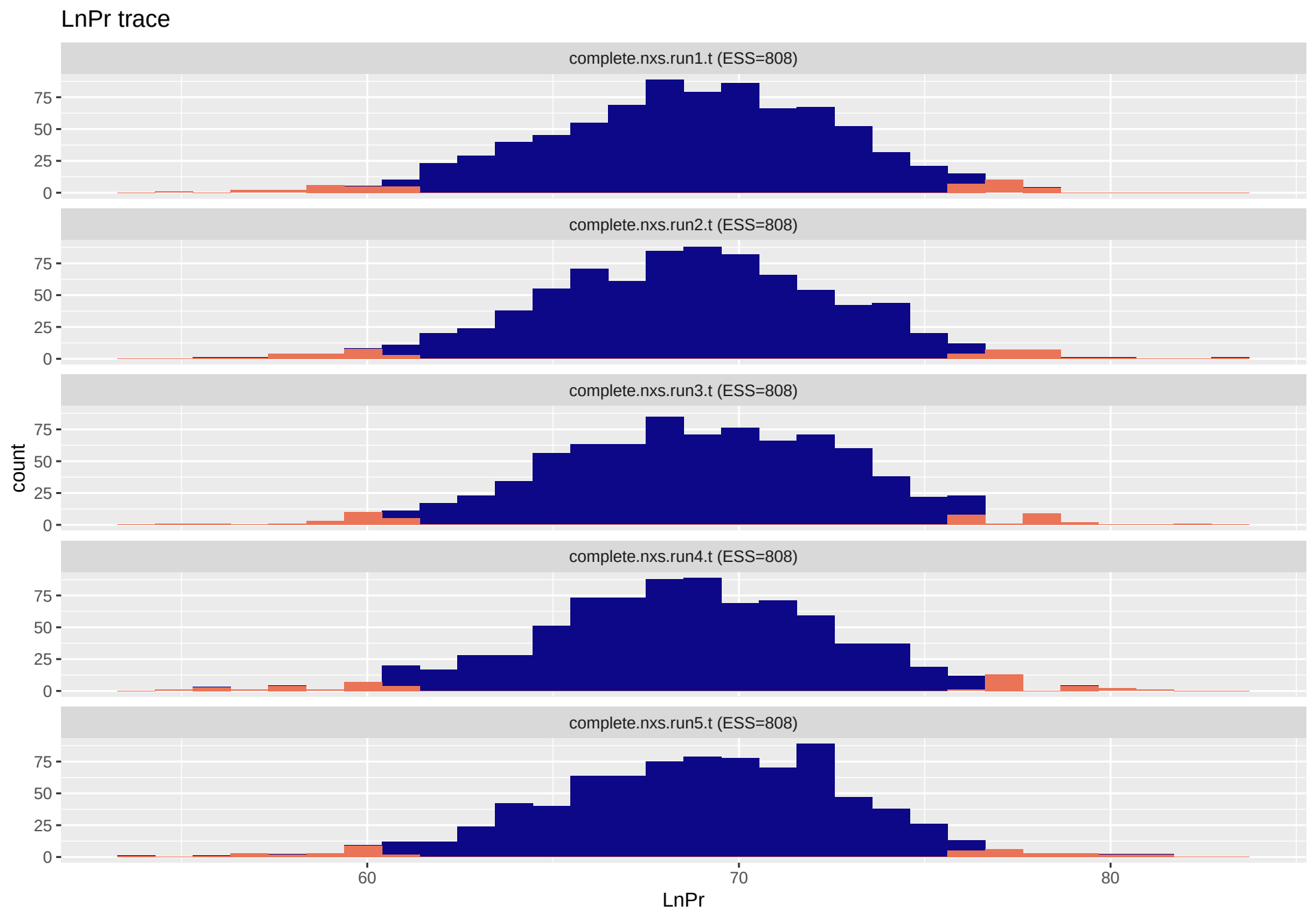
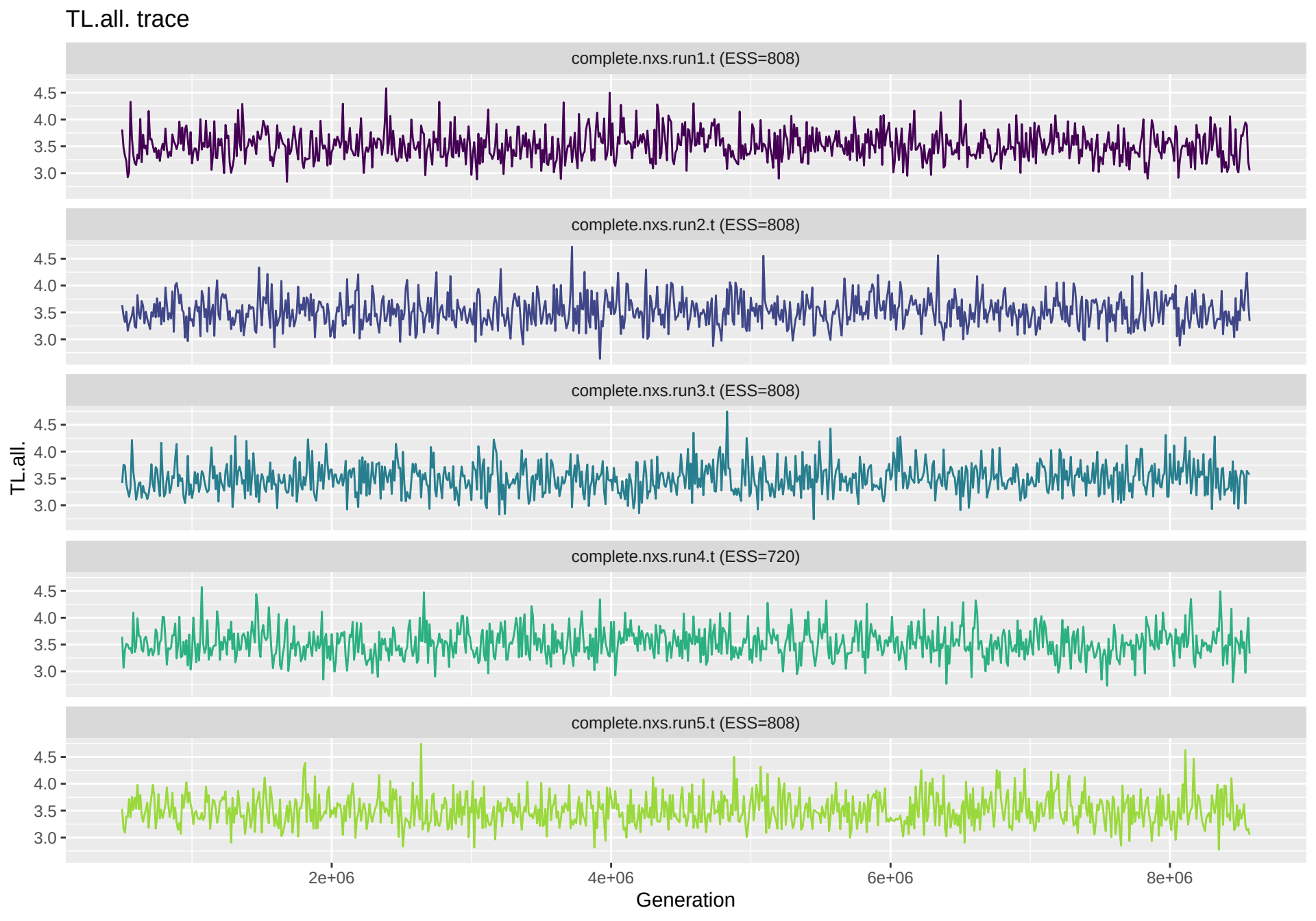
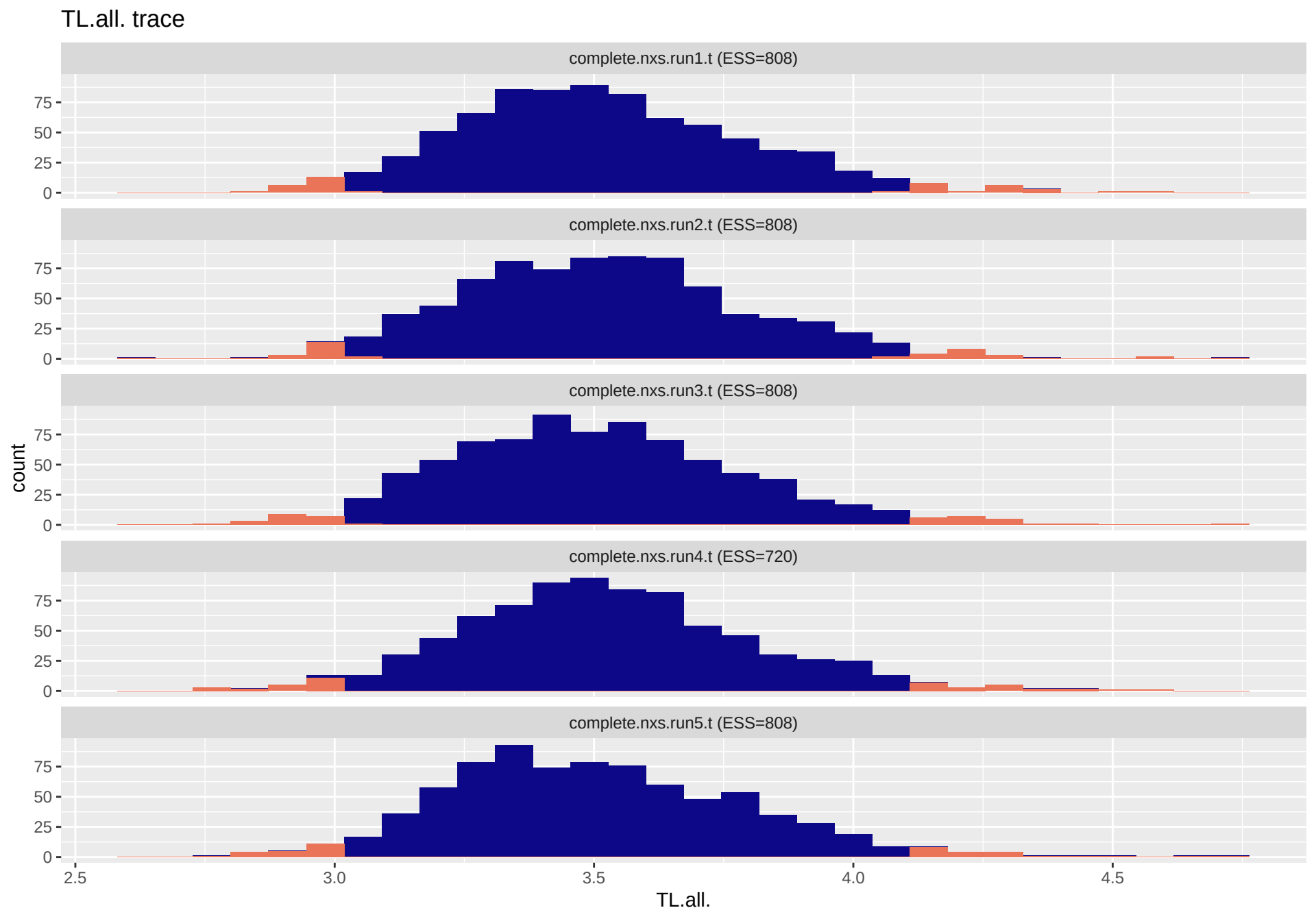

LnL trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
LnL
−10350
−10360
−10370
−10380
−10390
−10400
2e+06
4e+06
6e+06
8e+06
Generation

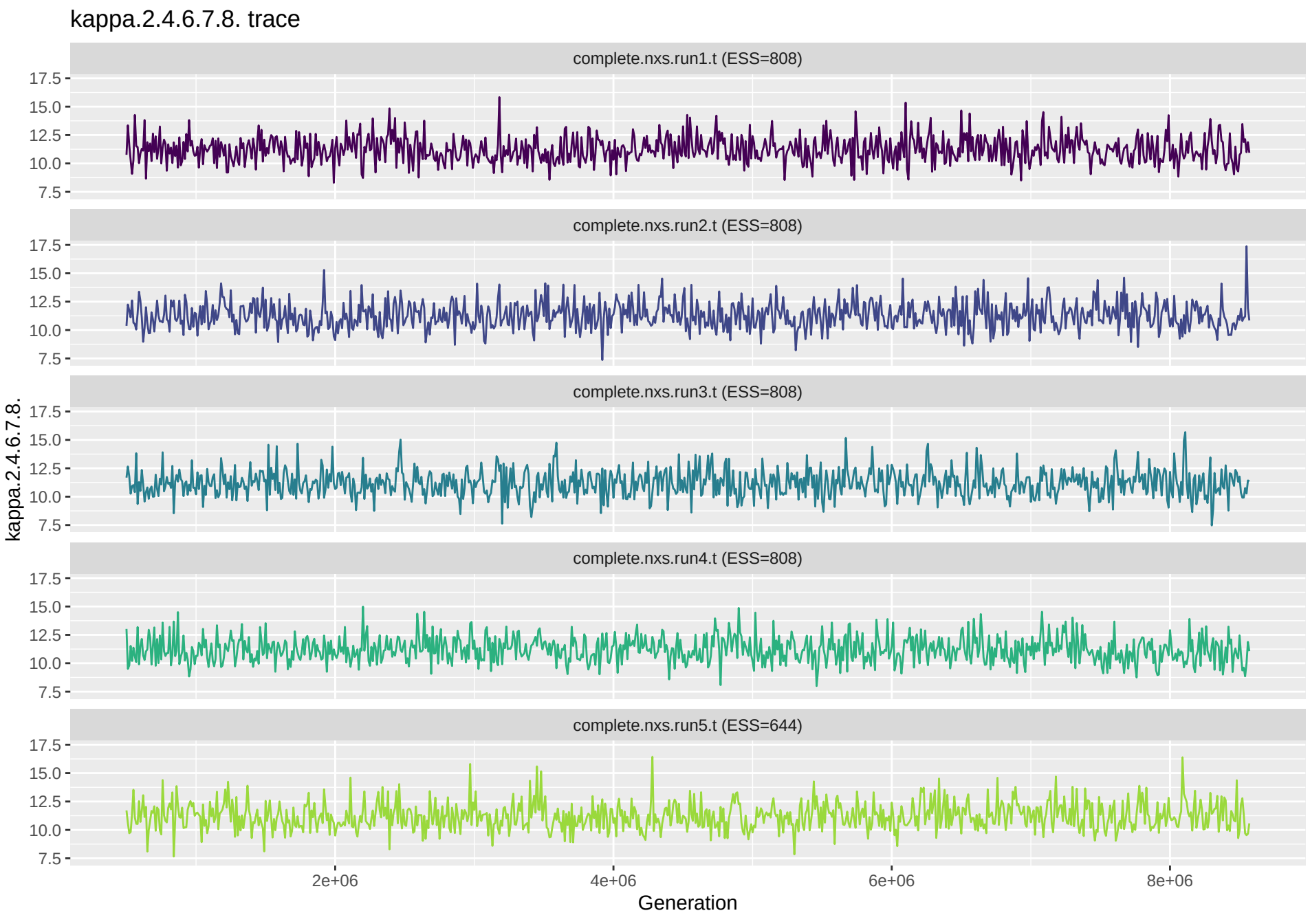

LnL trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
20
40
60
80
−10400
−10390
−10380
−10370
−10360
−10350
LnL

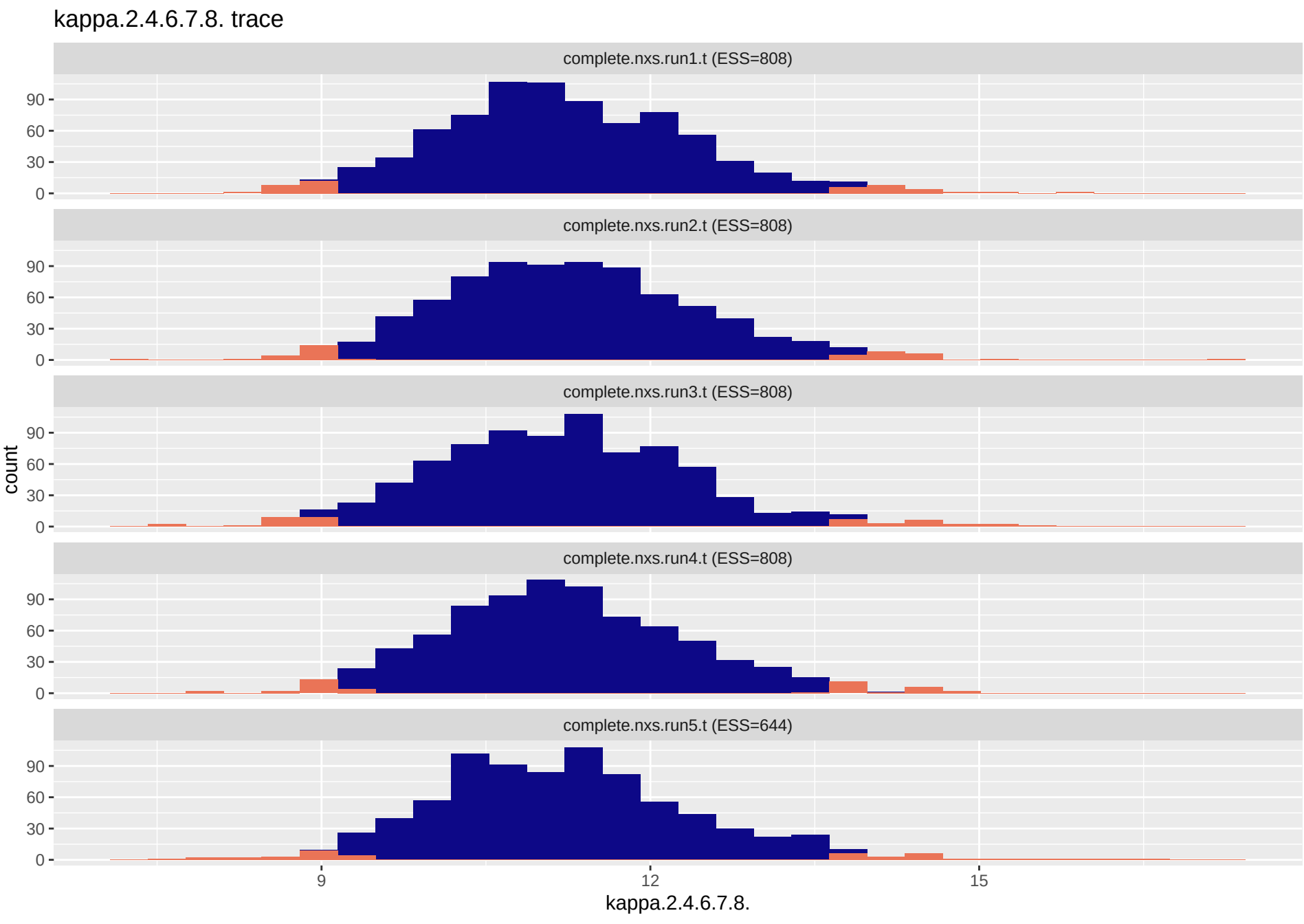

LnPr trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
LnPr
80
70
60
2e+06
4e+06
6e+06
8e+06
Generation


LnPr trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
60
70
80
LnPr

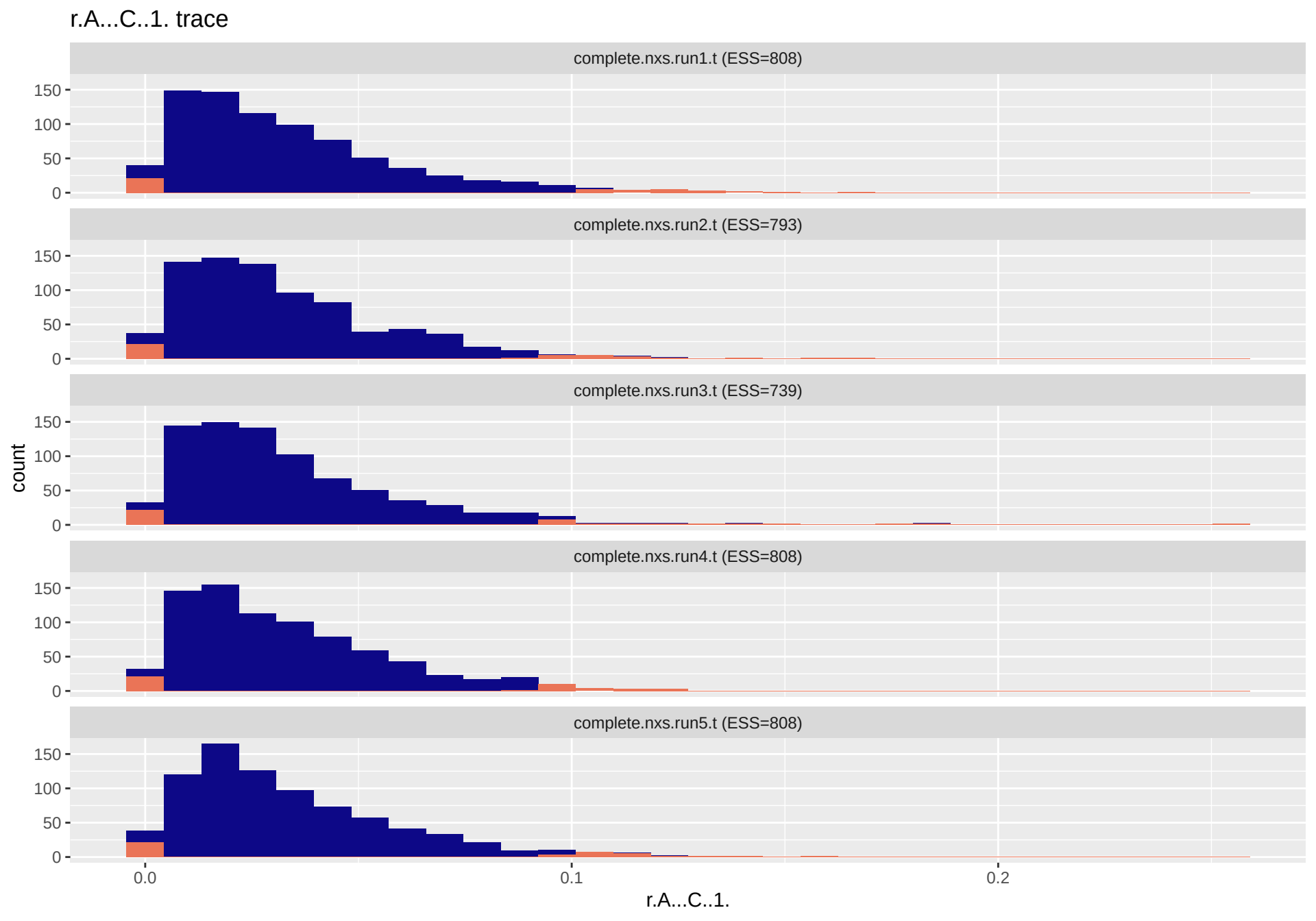

TL.all. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=720)
complete.nxs.run5.t (ESS=808)
TL.all.
4.5
4.0
3.5
3.0
2e+06
4e+06
6e+06
8e+06
Generation

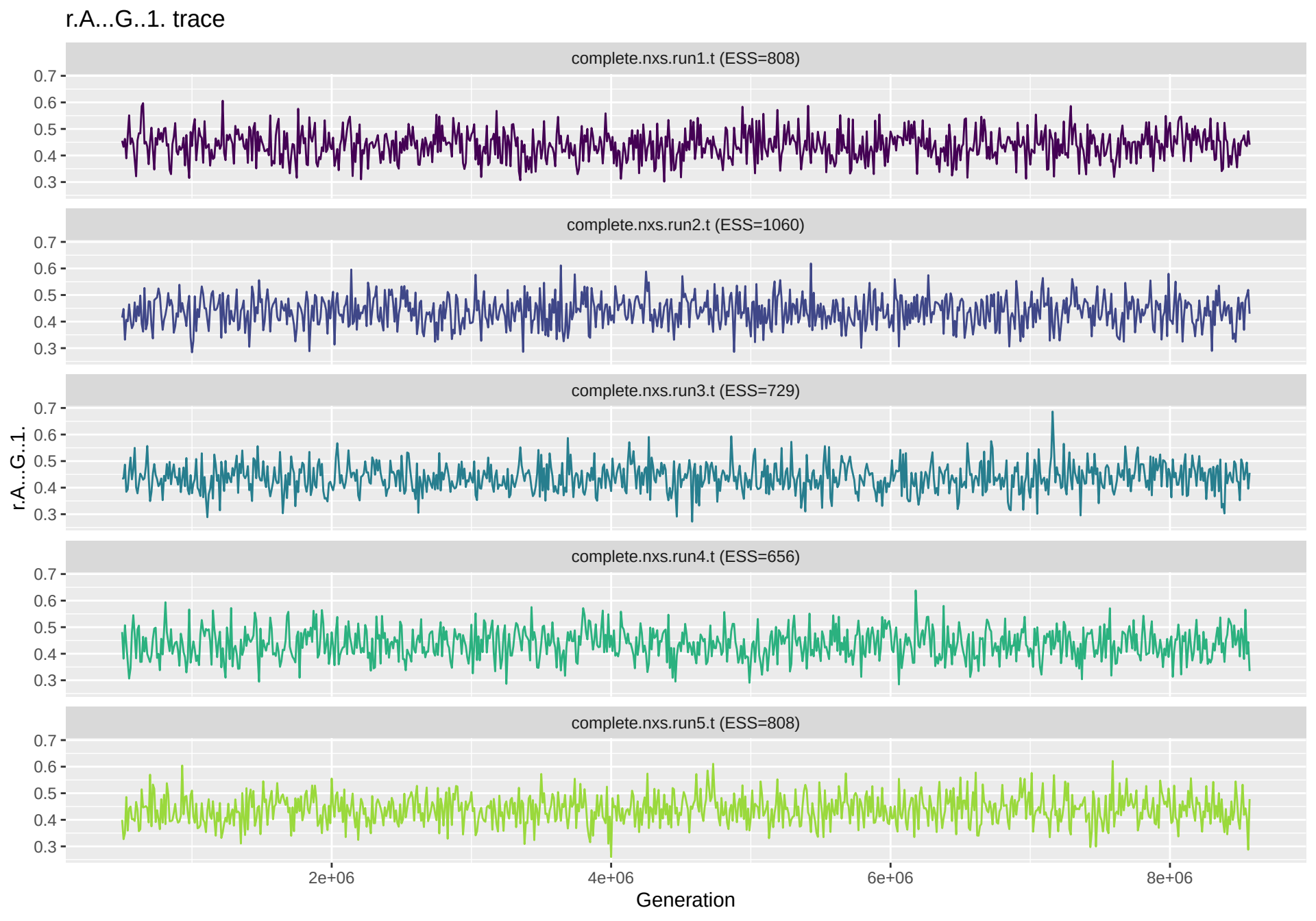

TL.all. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=720)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
2.5
3.0
3.5
4.0
4.5
TL.all.

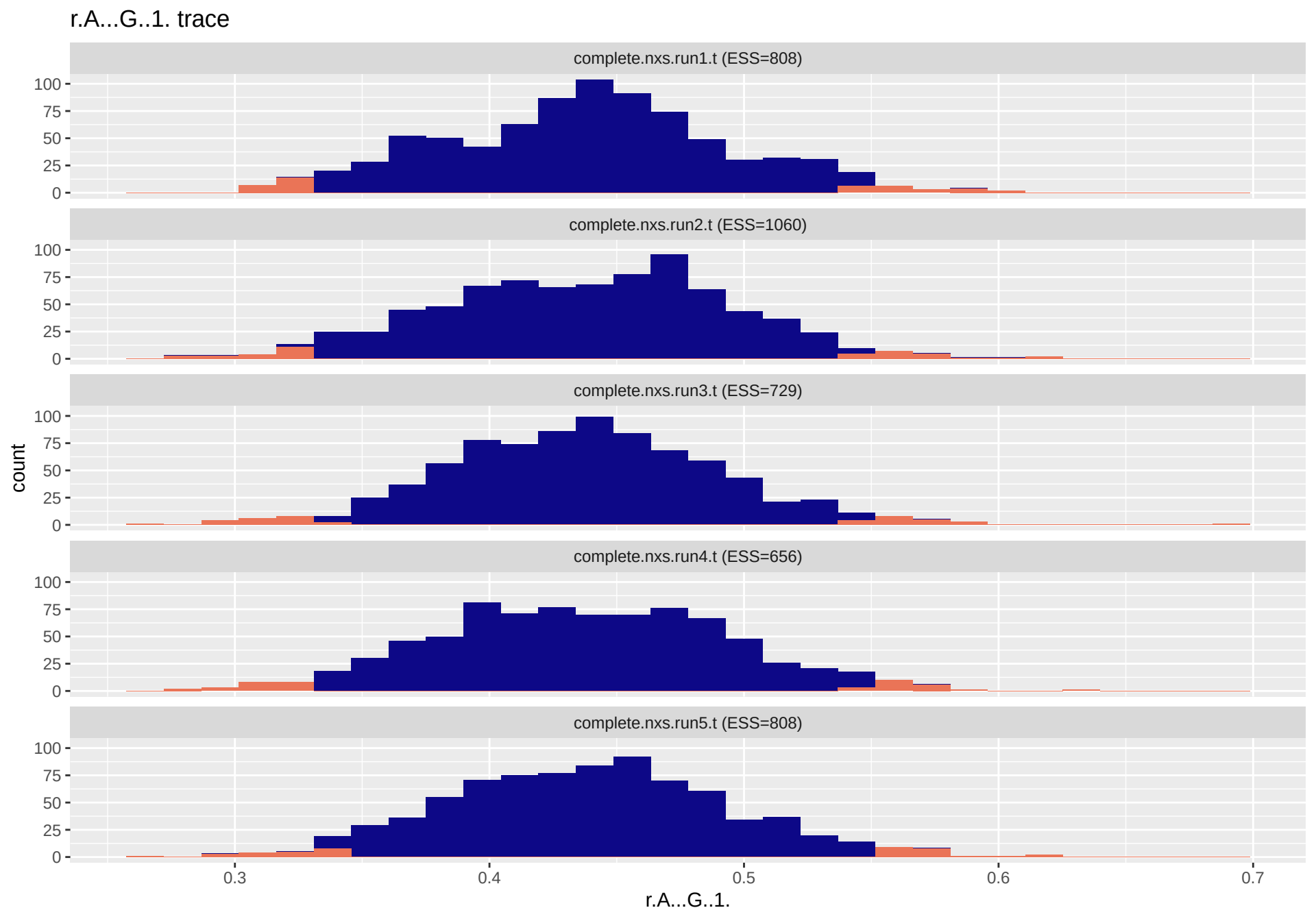

kappa.2.4.6.7.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=644)
kappa.2.4.6.7.8.
17.5
15.0
12.5
10.0
7.5
2e+06
4e+06
6e+06
8e+06
Generation

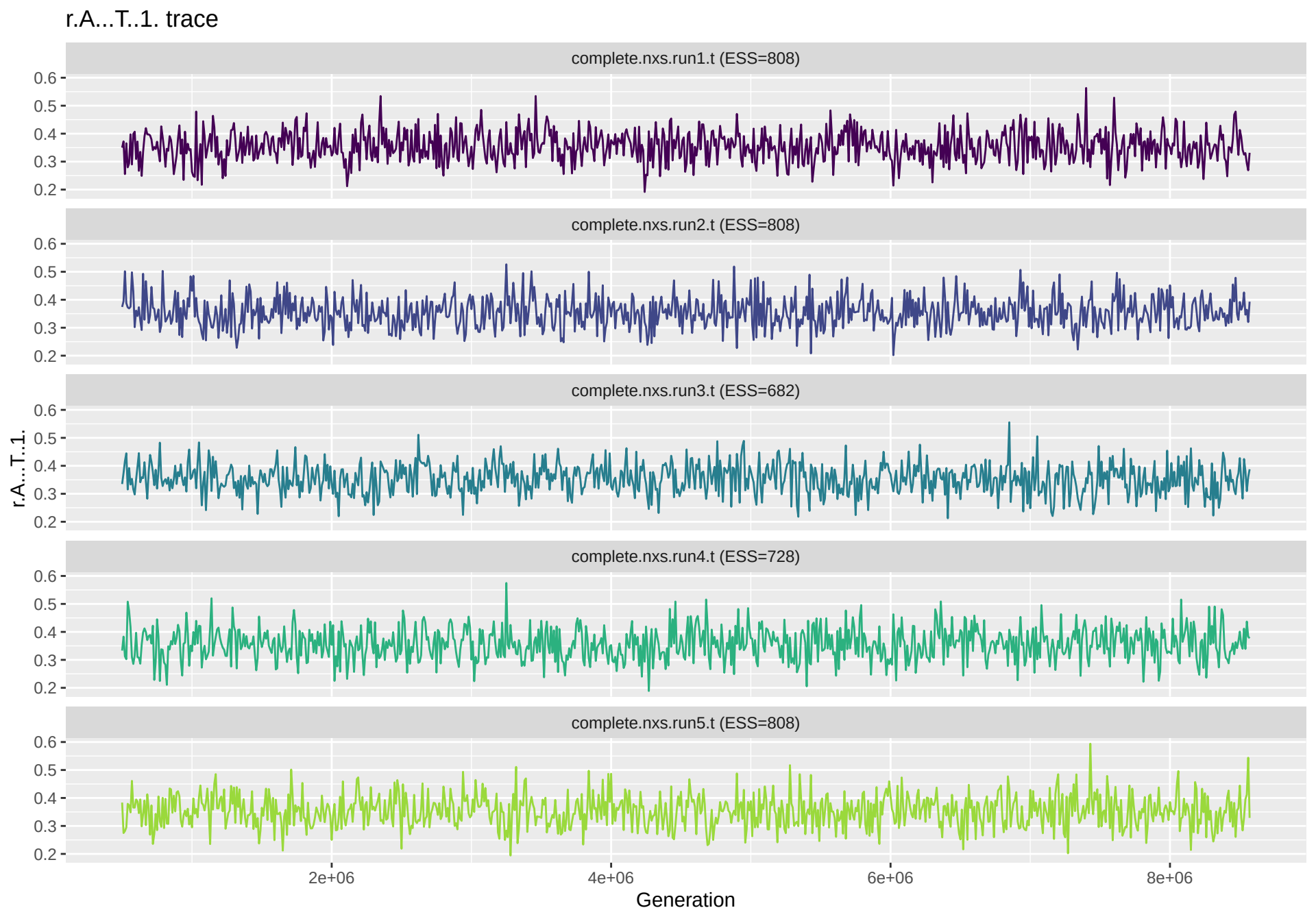

kappa.2.4.6.7.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=644)
count
0
30
60
90
9
12
15
kappa.2.4.6.7.8.

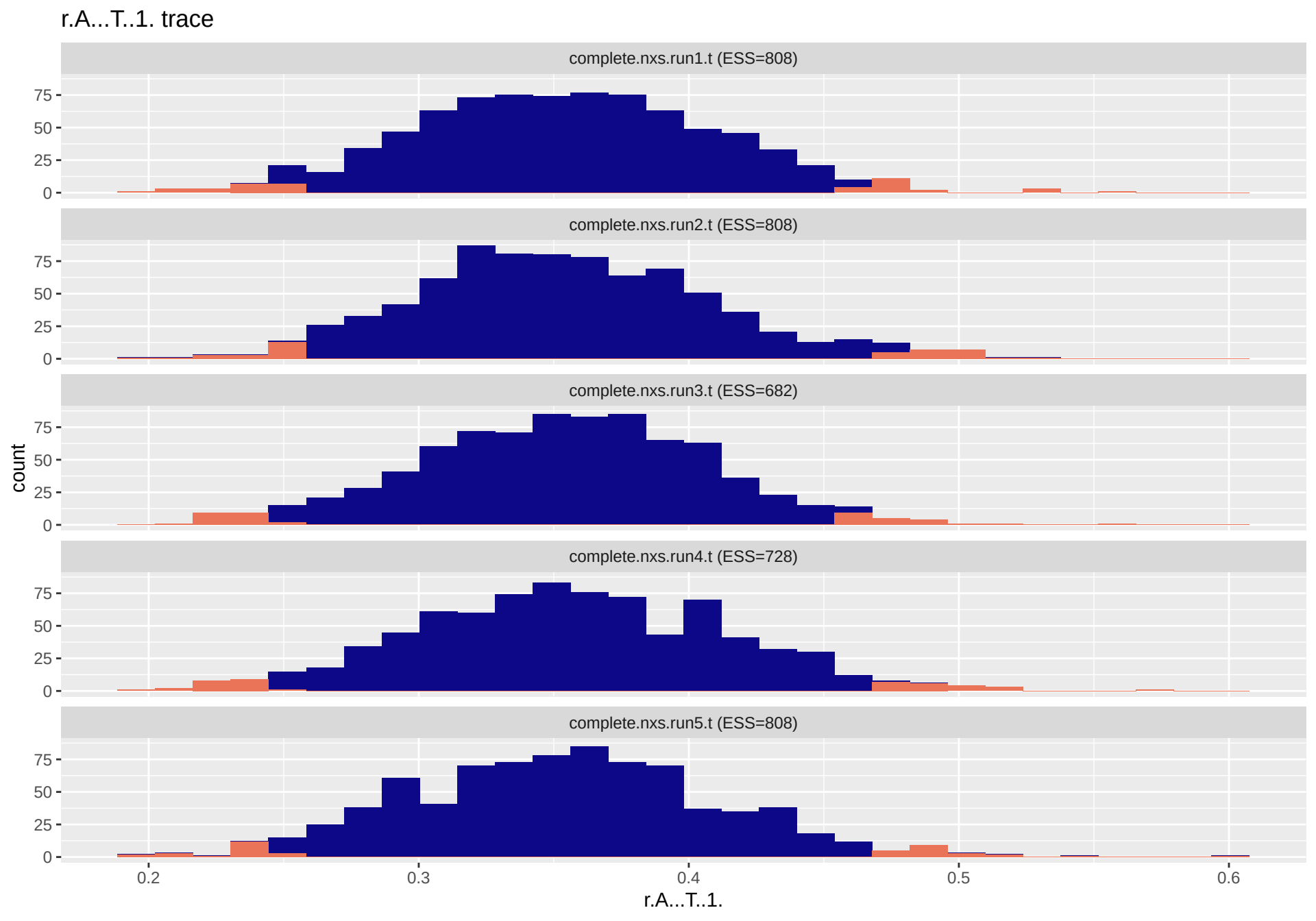
r.A...C..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=793)
complete.nxs.run3.t (ESS=739)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.A...C..1.
0.0
0.1
0.2
2e+06
4e+06
6e+06
8e+06
Generation


r.A...C..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=793)
complete.nxs.run3.t (ESS=739)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
150
100
50
0
0.0
0.1
0.2
r.A...C..1.

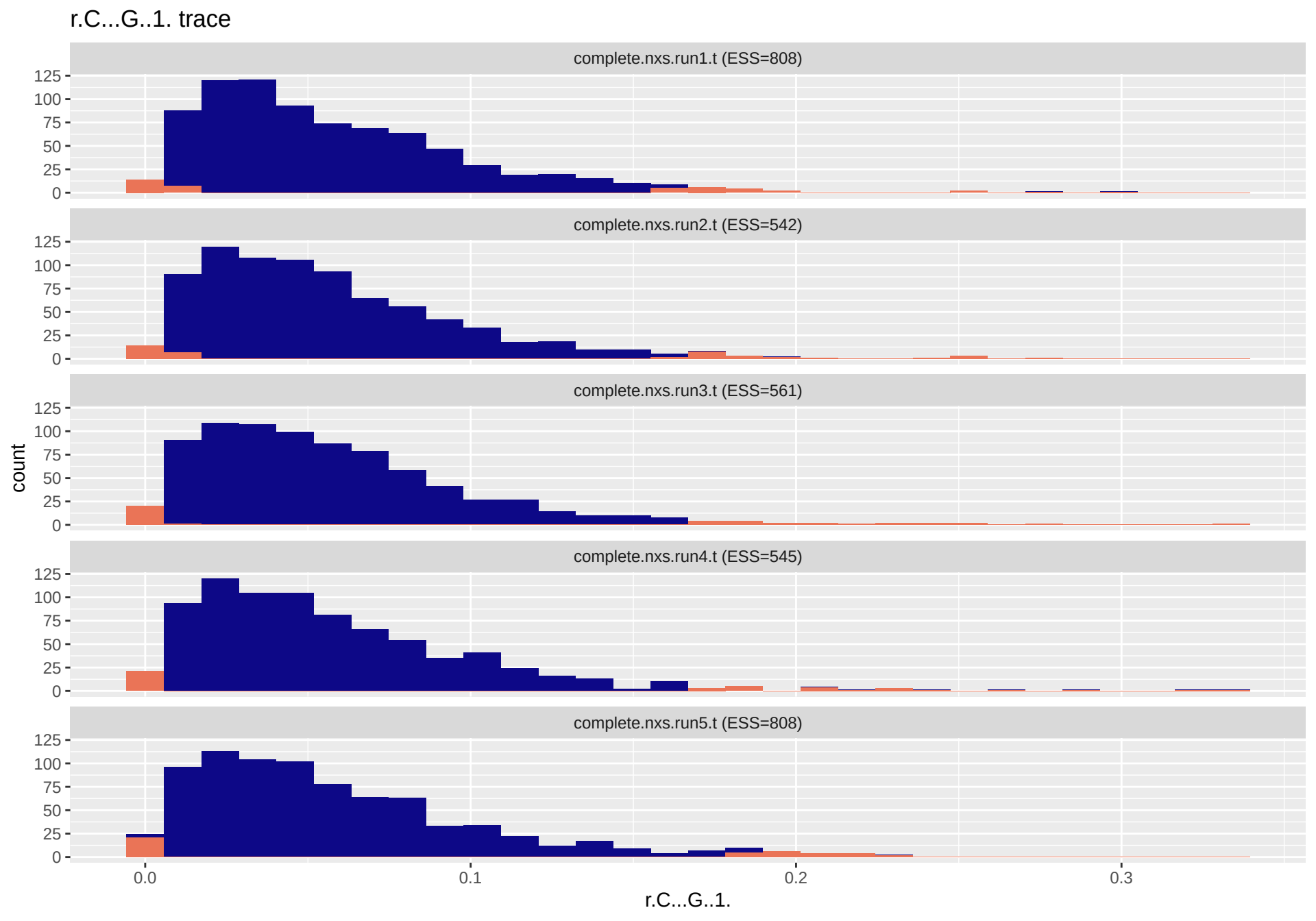

r.A...G..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=1060)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=656)
complete.nxs.run5.t (ESS=808)
r.A...G..1.
0.7
0.6
0.5
0.4
0.3
2e+06
4e+06
6e+06
8e+06
Generation

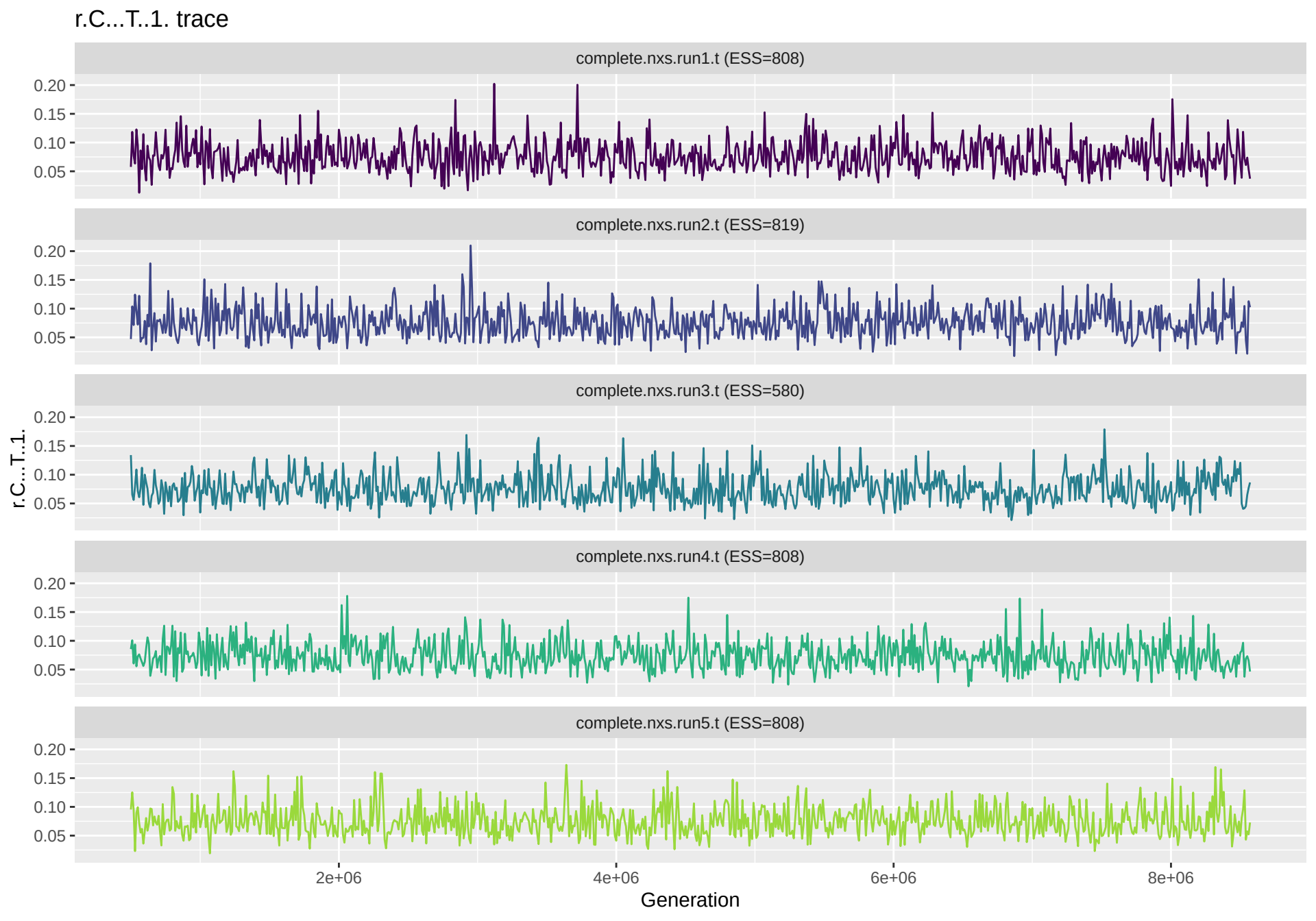

r.A...G..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=1060)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=656)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.3
0.4
0.5
0.6
0.7
r.A...G..1.

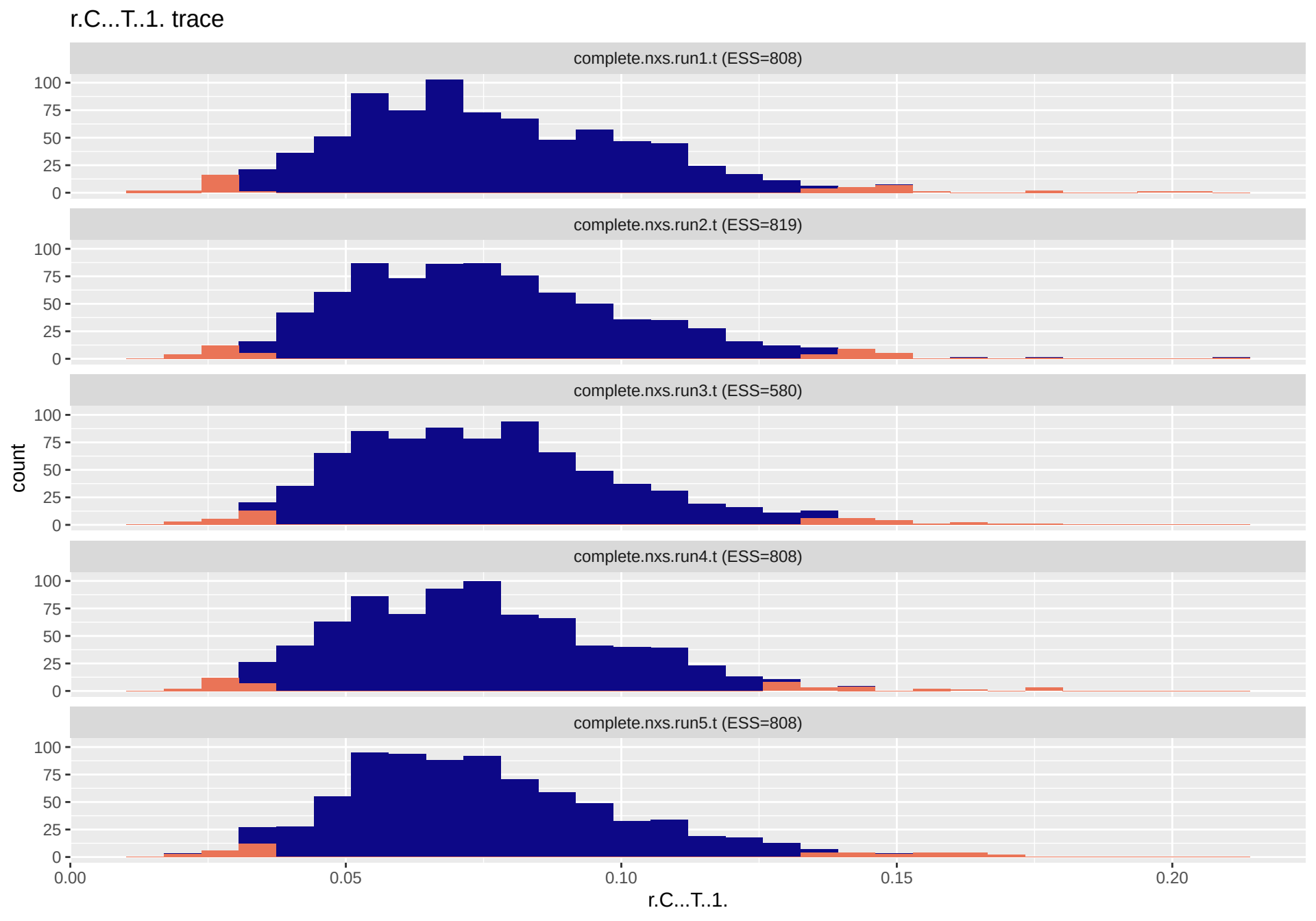

r.A...T..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=682)
complete.nxs.run4.t (ESS=728)
complete.nxs.run5.t (ESS=808)
r.A...T..1.
0.6
0.5
0.4
0.3
0.2
2e+06
4e+06
6e+06
8e+06
Generation

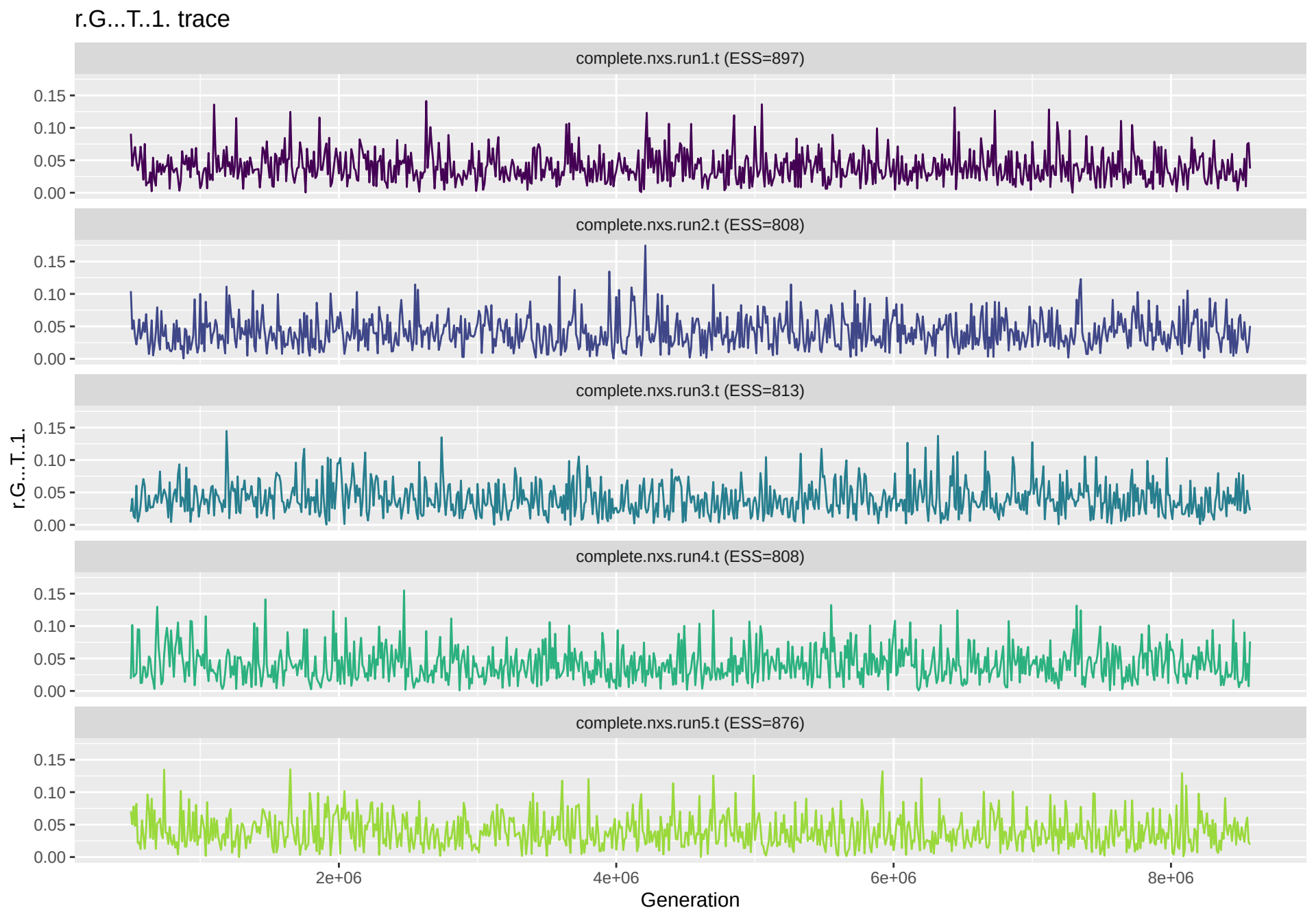

r.A...T..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=682)
complete.nxs.run4.t (ESS=728)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.2
0.3
0.4
0.5
0.6
r.A...T..1.

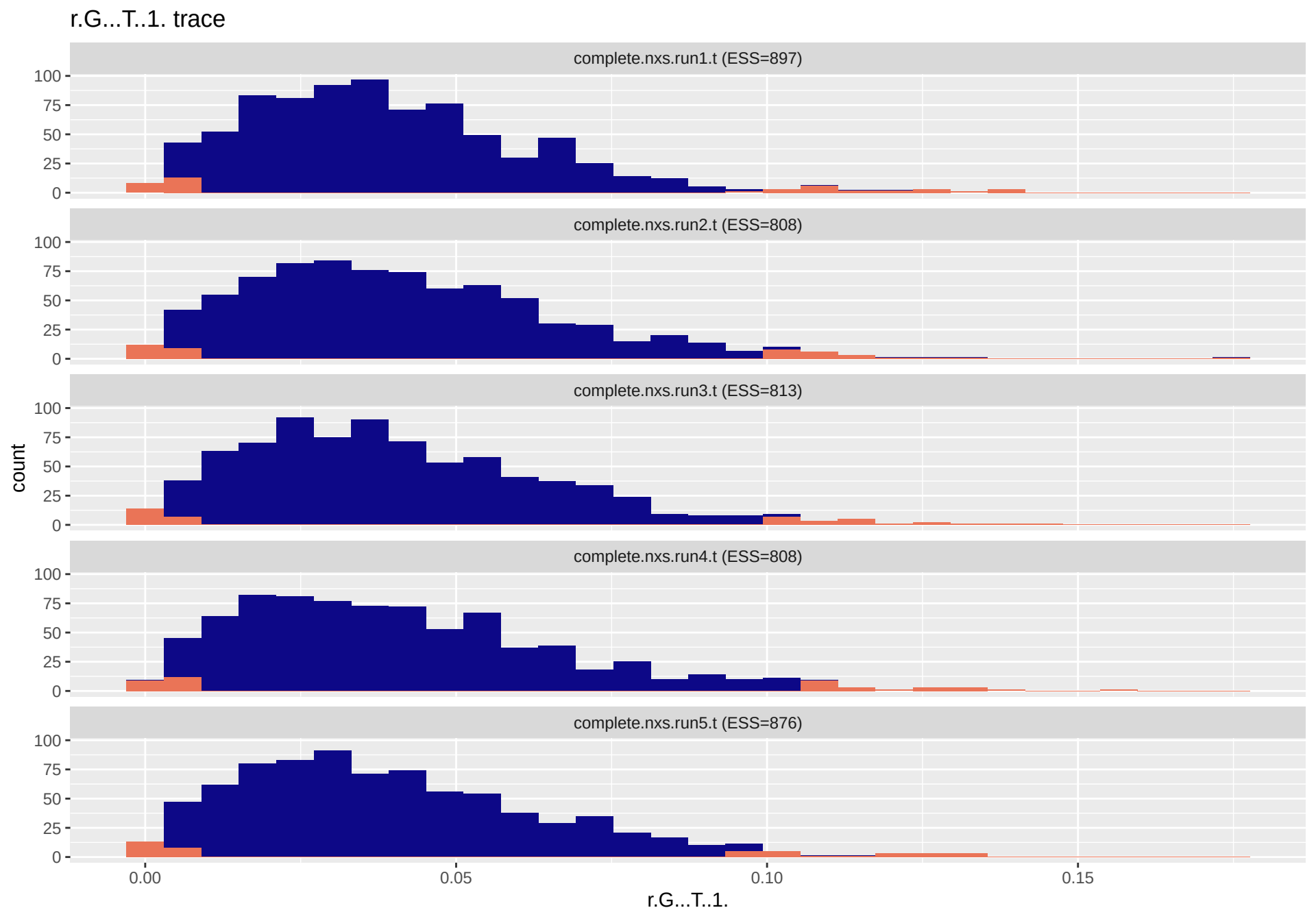
r.C...G..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=542)
complete.nxs.run3.t (ESS=561)
complete.nxs.run4.t (ESS=545)
complete.nxs.run5.t (ESS=808)
r.C...G..1.
0.0
0.1
0.2
0.3
2e+06
4e+06
6e+06
8e+06
Generation


r.C...G..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=542)
complete.nxs.run3.t (ESS=561)
complete.nxs.run4.t (ESS=545)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
125
0.0
0.1
0.2
0.3
r.C...G..1.

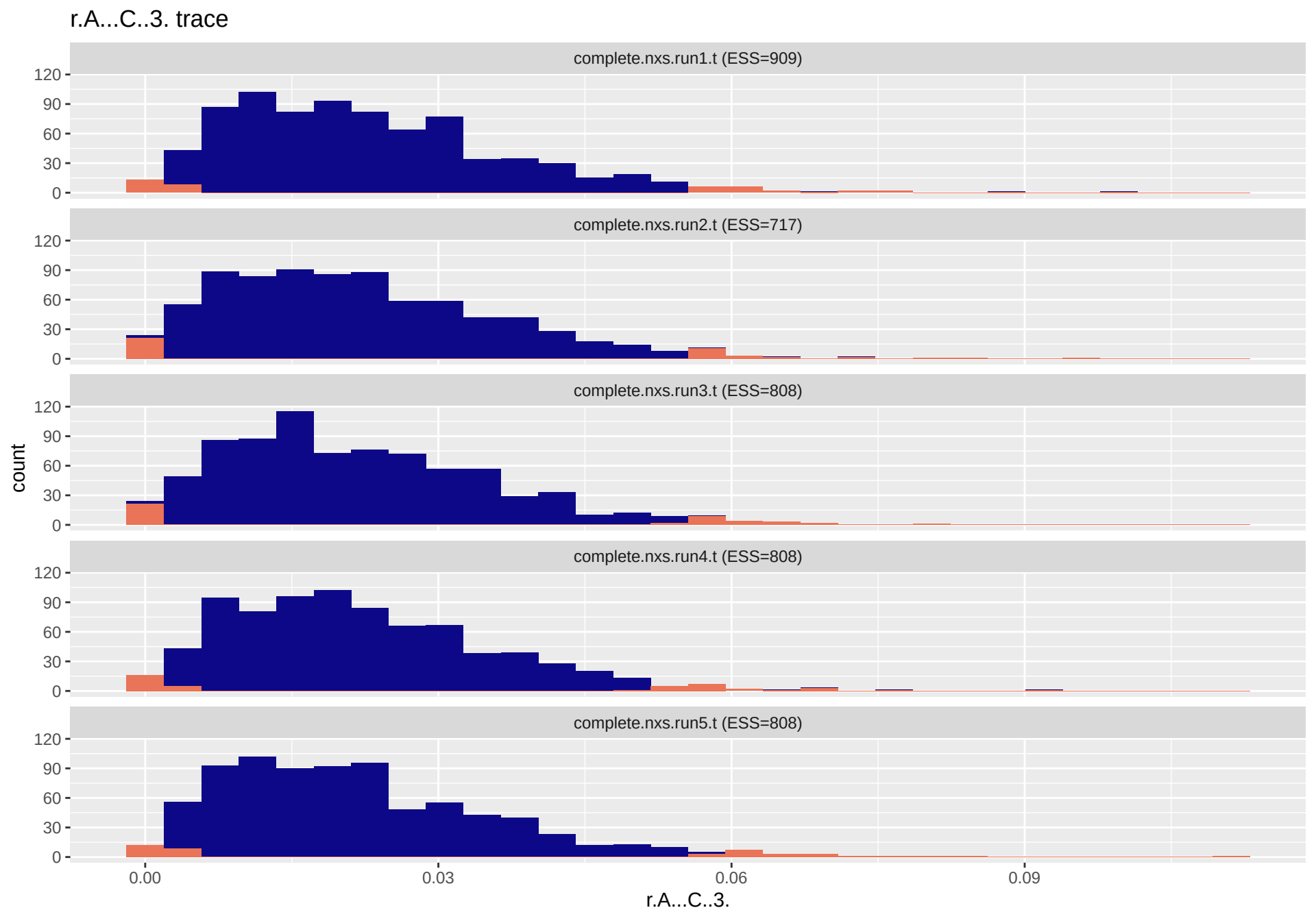

r.C...T..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=819)
complete.nxs.run3.t (ESS=580)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.C...T..1.
0.20
0.15
0.10
0.05
2e+06
4e+06
6e+06
8e+06
Generation

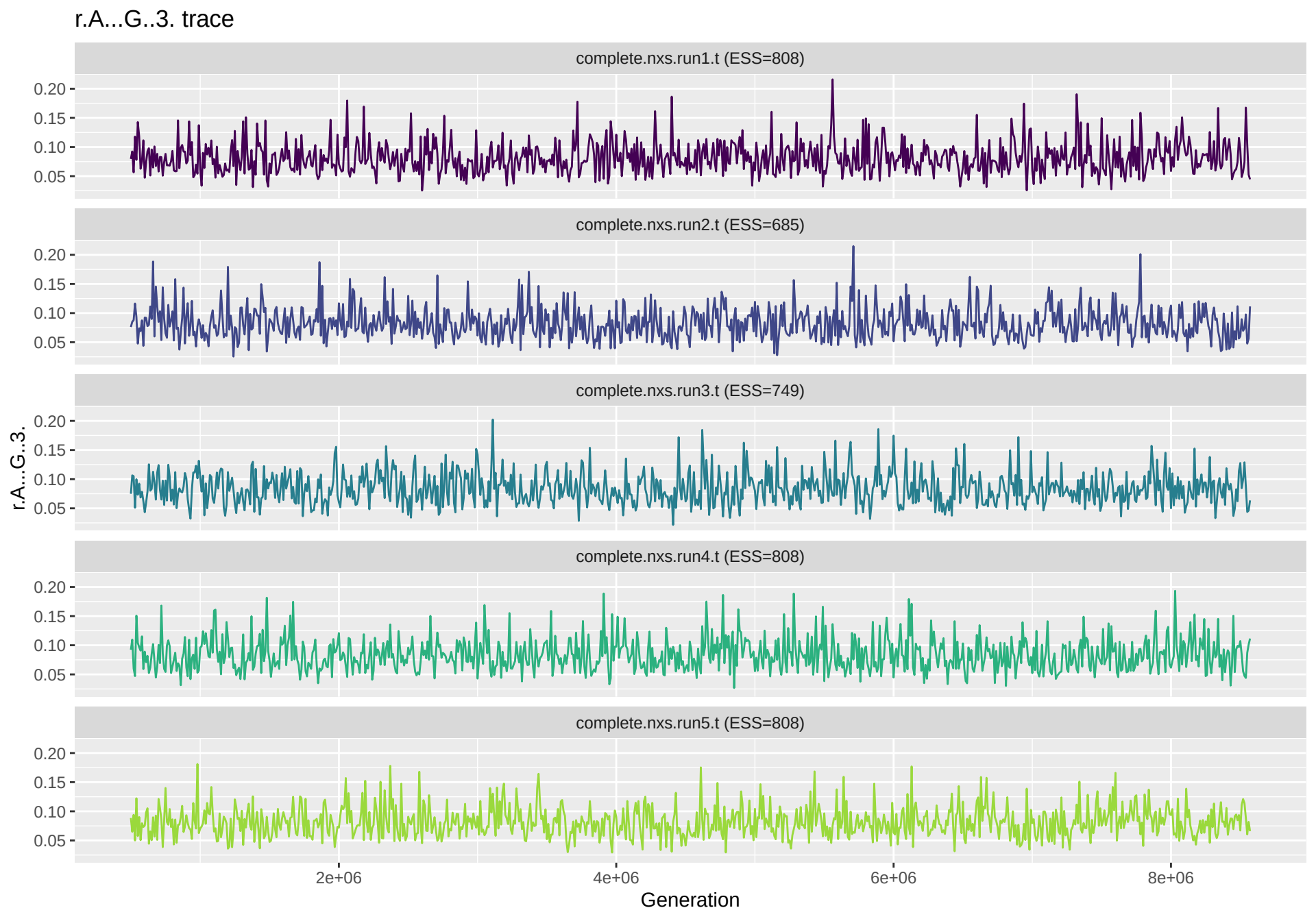

r.C...T..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=819)
complete.nxs.run3.t (ESS=580)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.00
0.05
0.10
0.15
0.20
r.C...T..1.

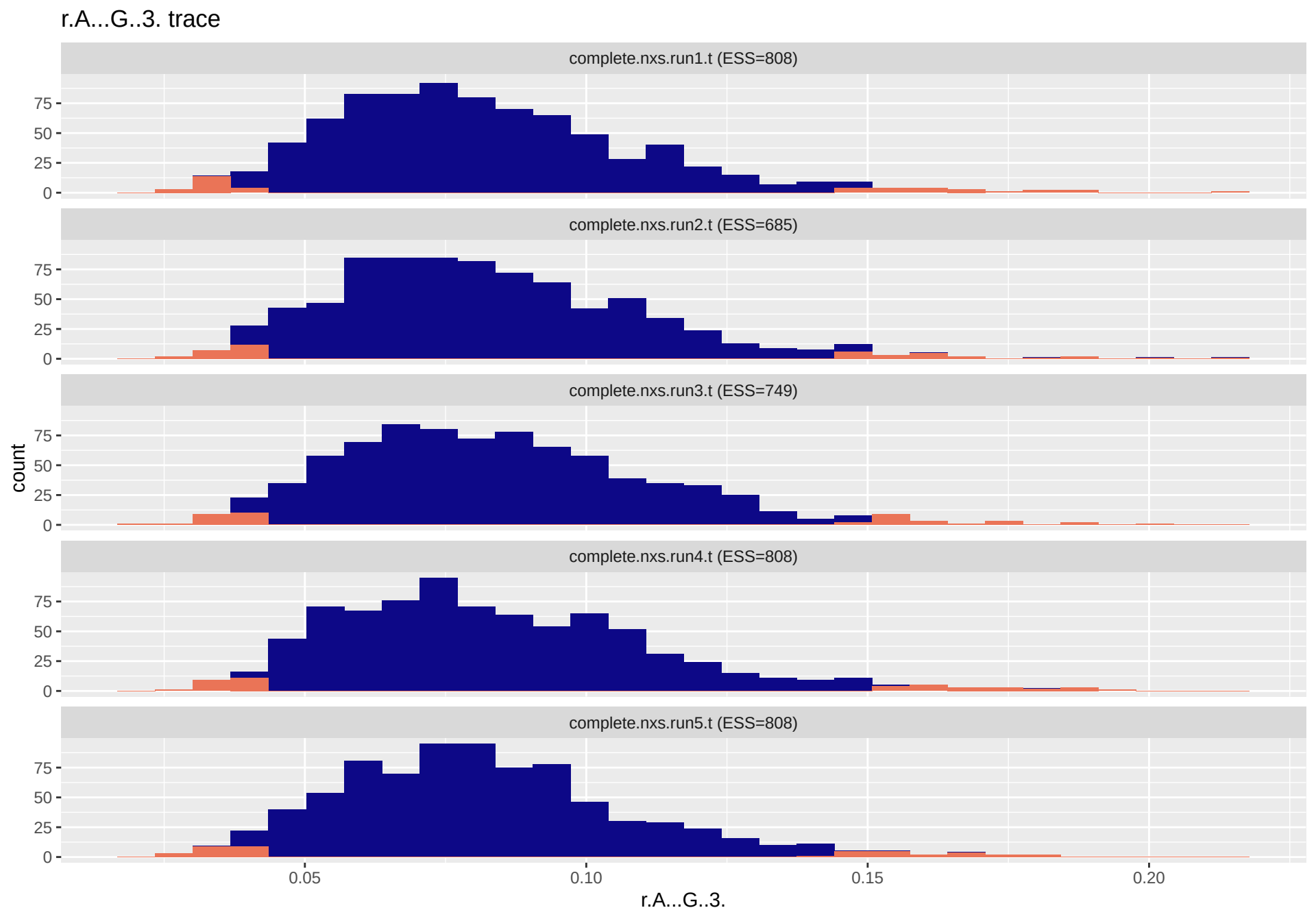

r.G...T..1. trace
complete.nxs.run1.t (ESS=897)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=813)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=876)
r.G...T..1.
0.15
0.10
0.05
0.00
2e+06
4e+06
6e+06
8e+06
Generation

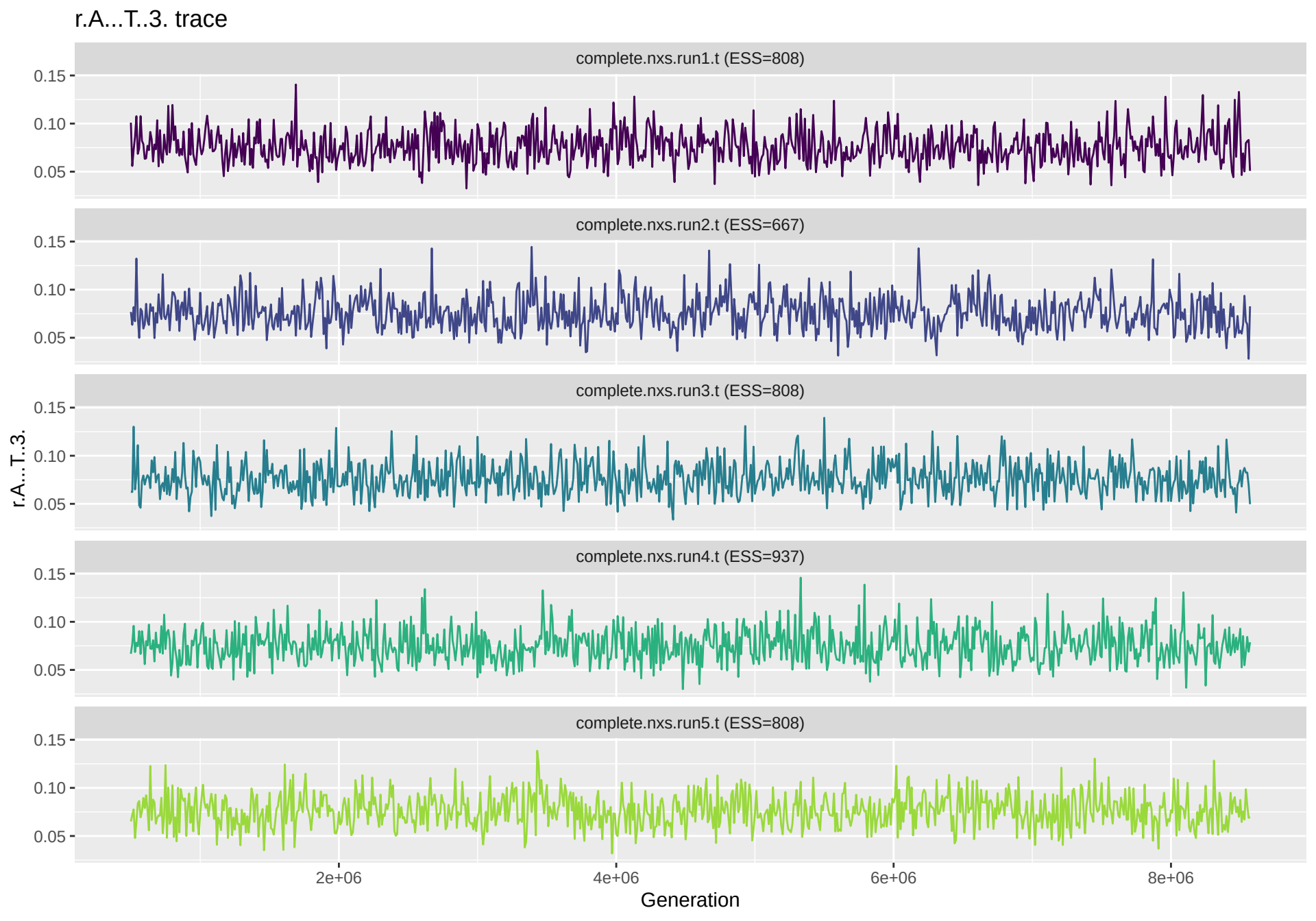

r.G...T..1. trace
complete.nxs.run1.t (ESS=897)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=813)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=876)
count
0
25
50
75
100
0.00
0.05
0.10
0.15
r.G...T..1.

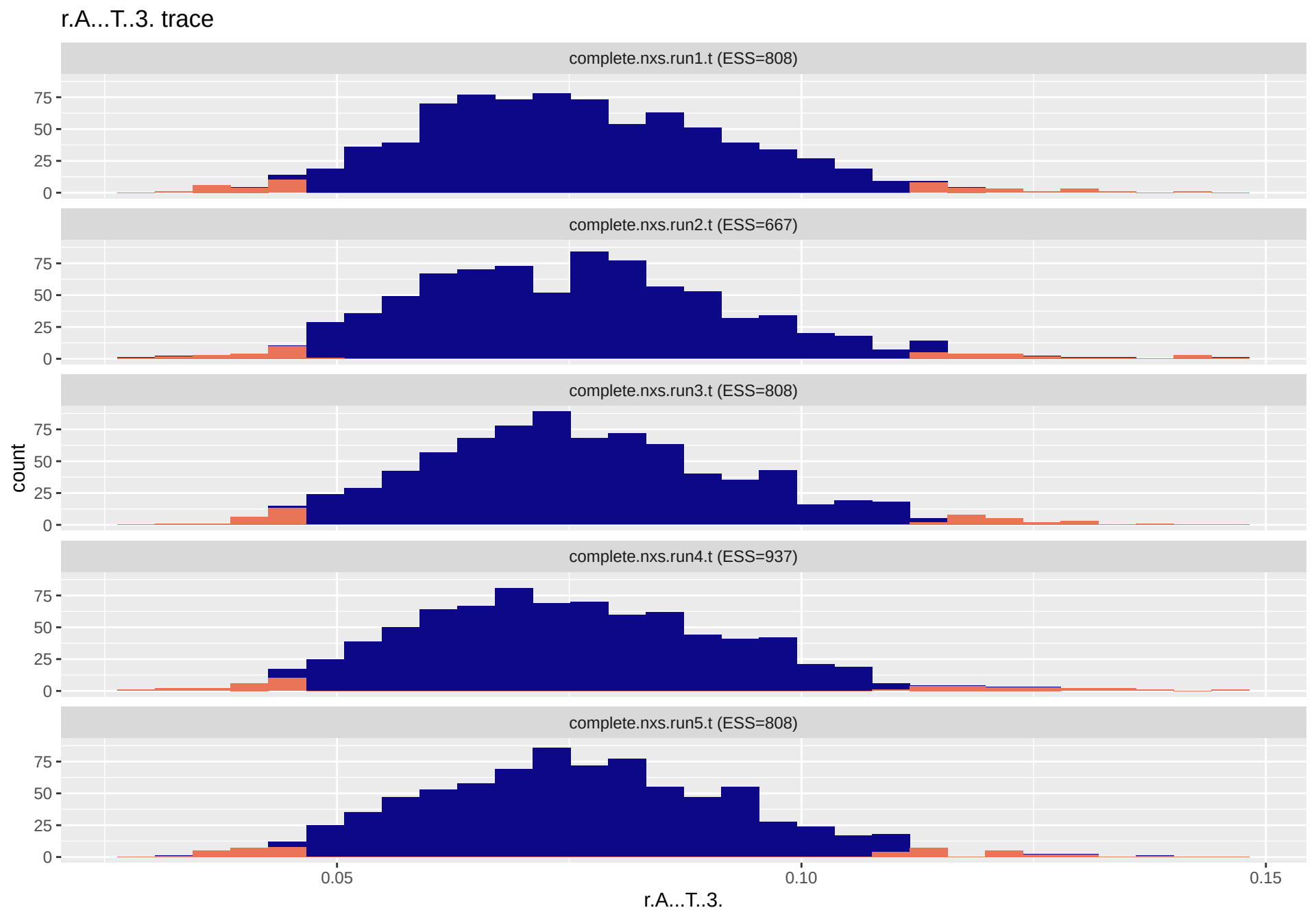
r.A...C..3. trace
complete.nxs.run1.t (ESS=909)
complete.nxs.run2.t (ESS=717)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.A...C..3.
0.09
0.06
0.03
0.00
2e+06
4e+06
6e+06
8e+06
Generation

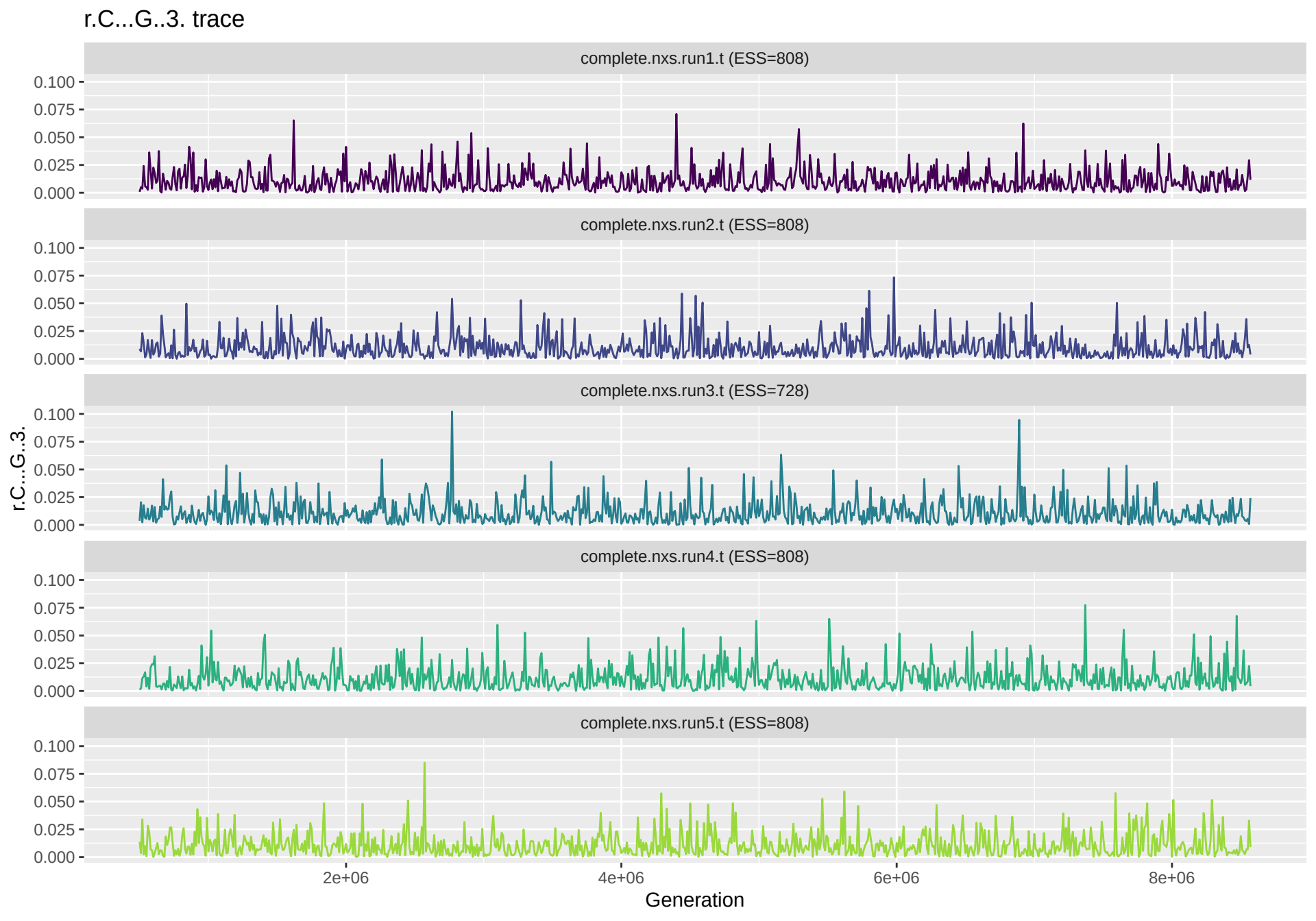

r.A...C..3. trace
complete.nxs.run1.t (ESS=909)
complete.nxs.run2.t (ESS=717)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
120
0.00
0.03
0.06
0.09
r.A...C..3.

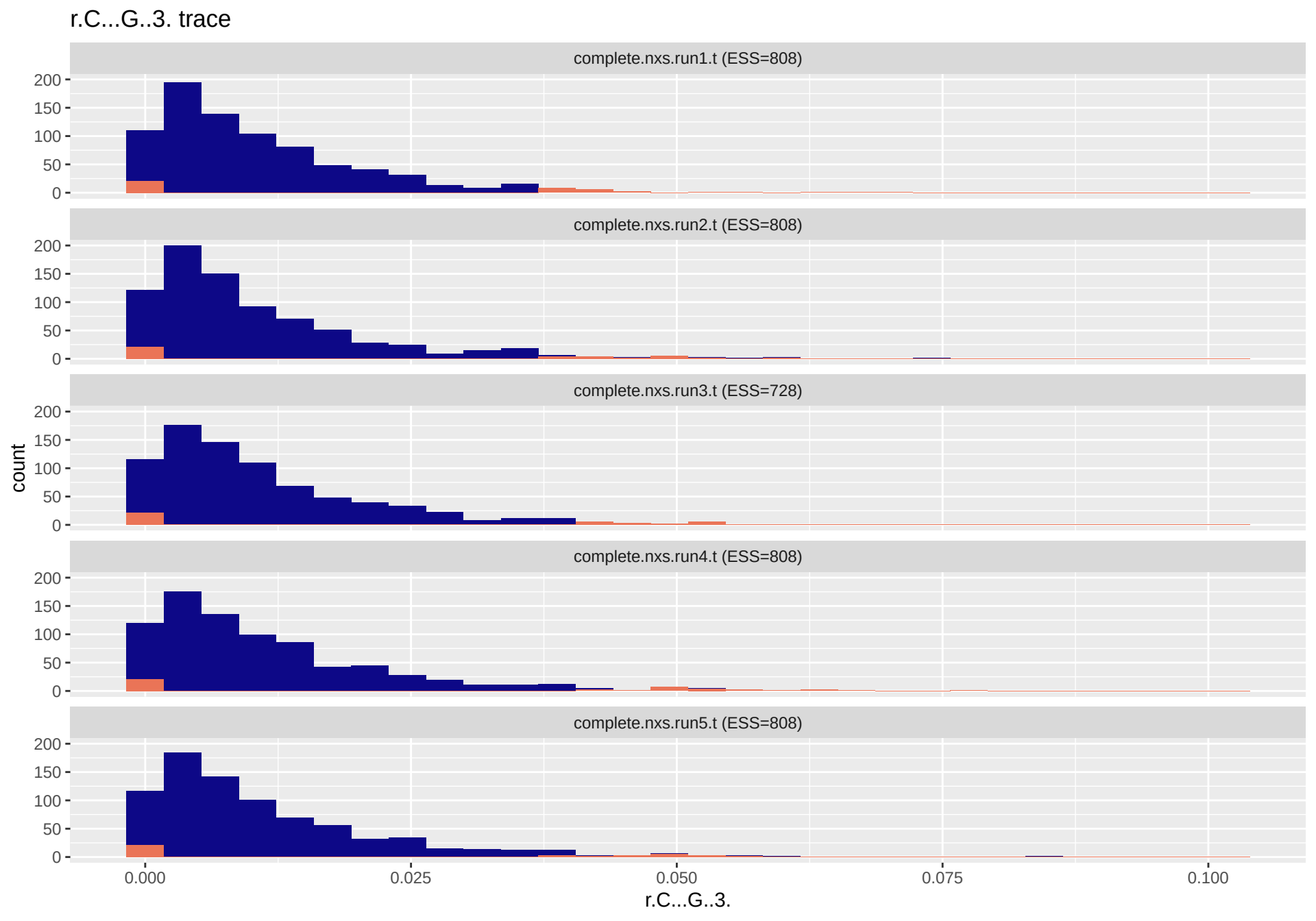

r.A...G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=685)
complete.nxs.run3.t (ESS=749)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.A...G..3.
0.20
0.15
0.10
0.05
2e+06
4e+06
6e+06
8e+06
Generation

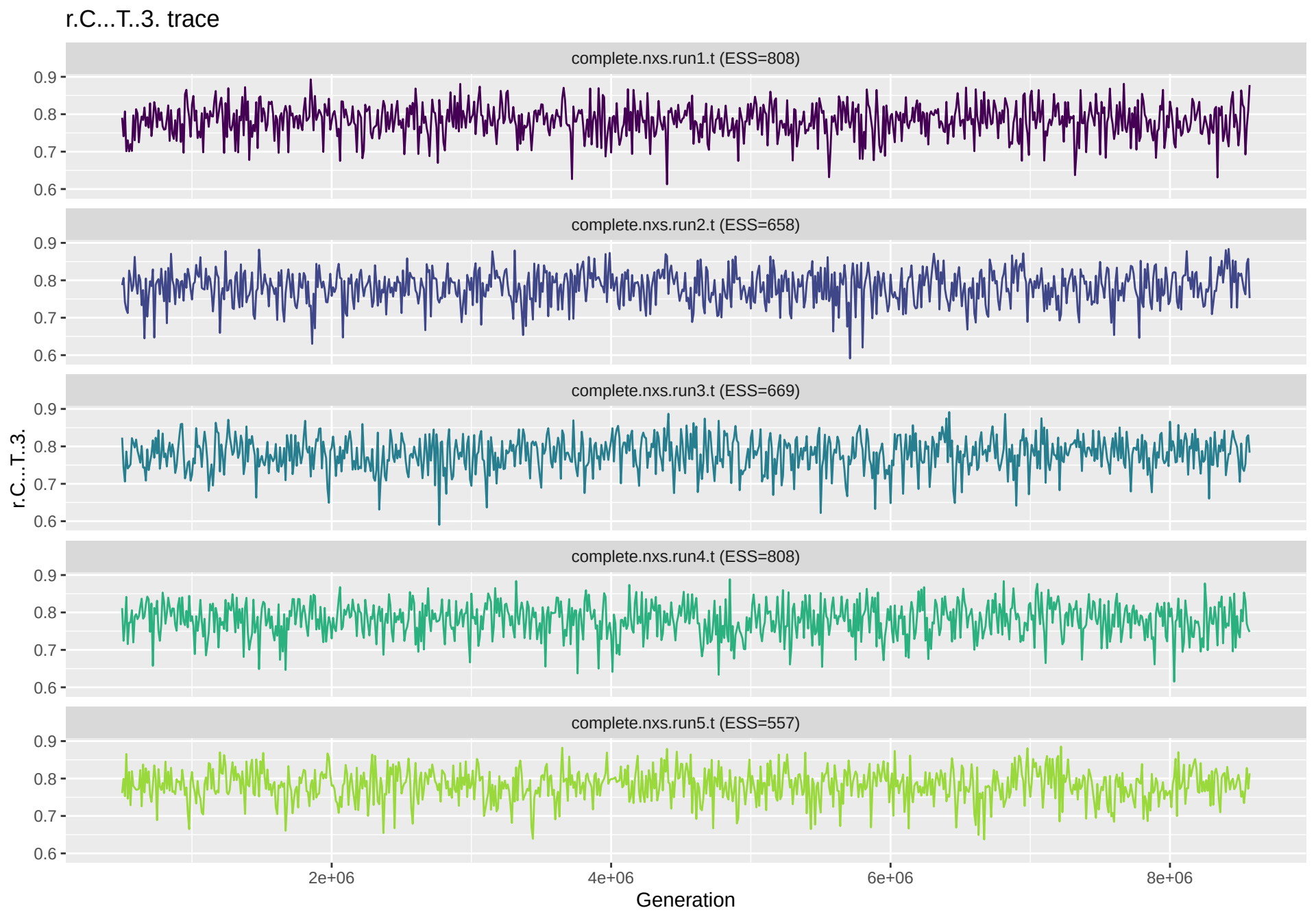

r.A...G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=685)
complete.nxs.run3.t (ESS=749)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.05
0.10
0.15
0.20
r.A...G..3.

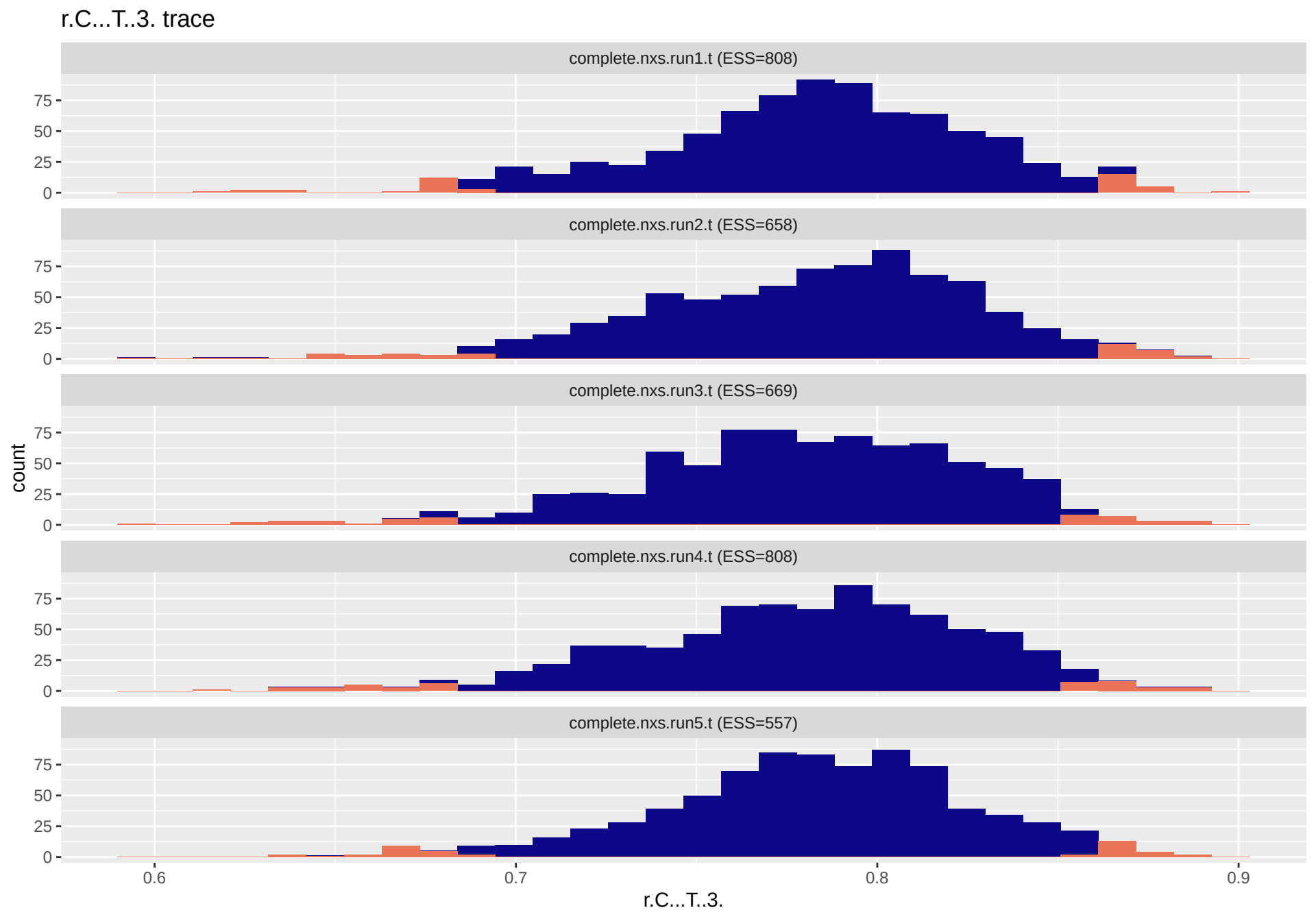

r.A...T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=667)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=937)
complete.nxs.run5.t (ESS=808)
r.A...T..3.
0.15
0.10
0.05
2e+06
4e+06
6e+06
8e+06
Generation


r.A...T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=667)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=937)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.05
0.10
0.15
r.A...T..3.

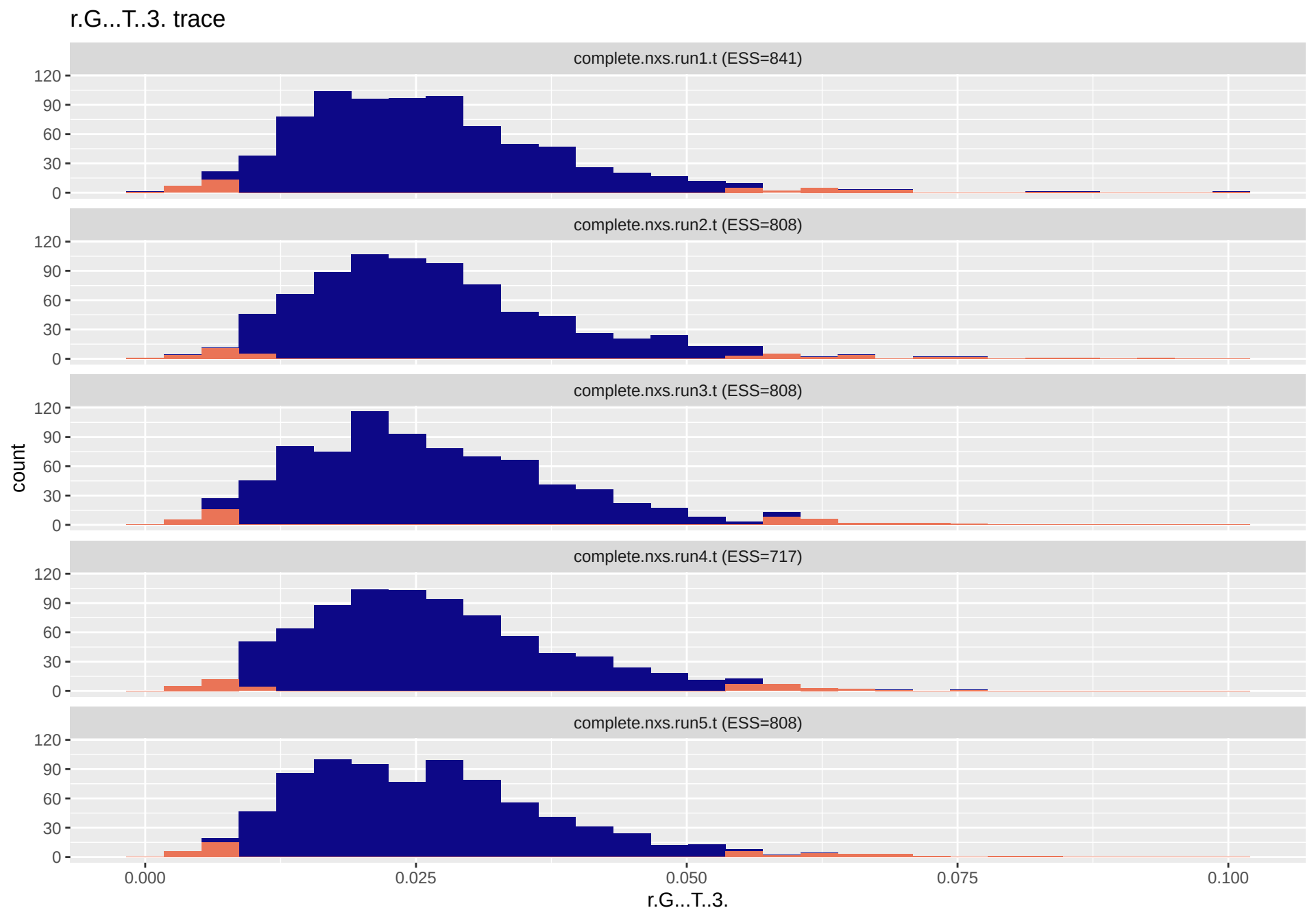

r.C...G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=728)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.C...G..3.
0.100
0.075
0.050
0.025
0.000
2e+06
4e+06
6e+06
8e+06
Generation

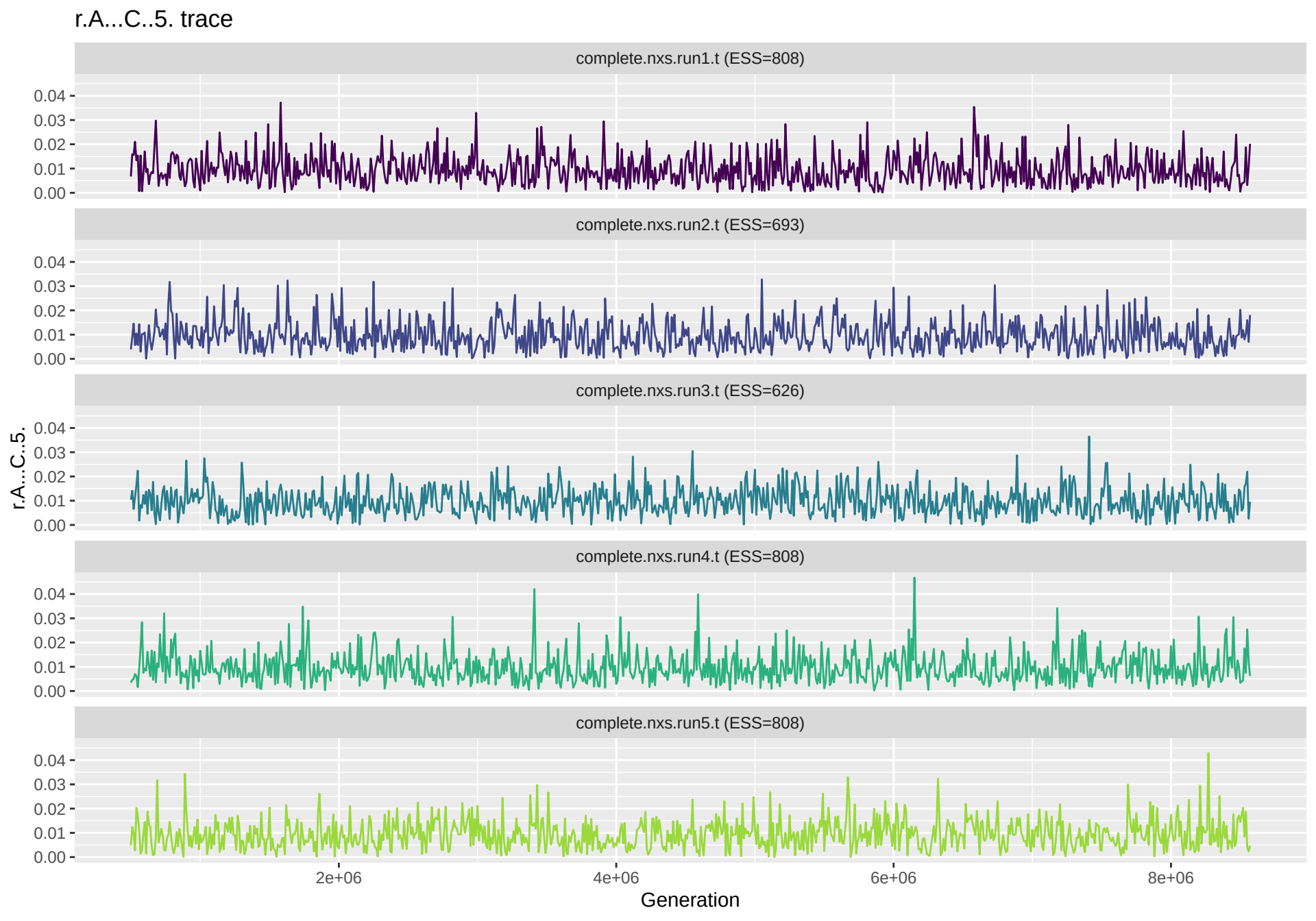

r.C...G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=728)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
50
100
150
200
0.000
0.025
0.050
0.075
0.100
r.C...G..3.

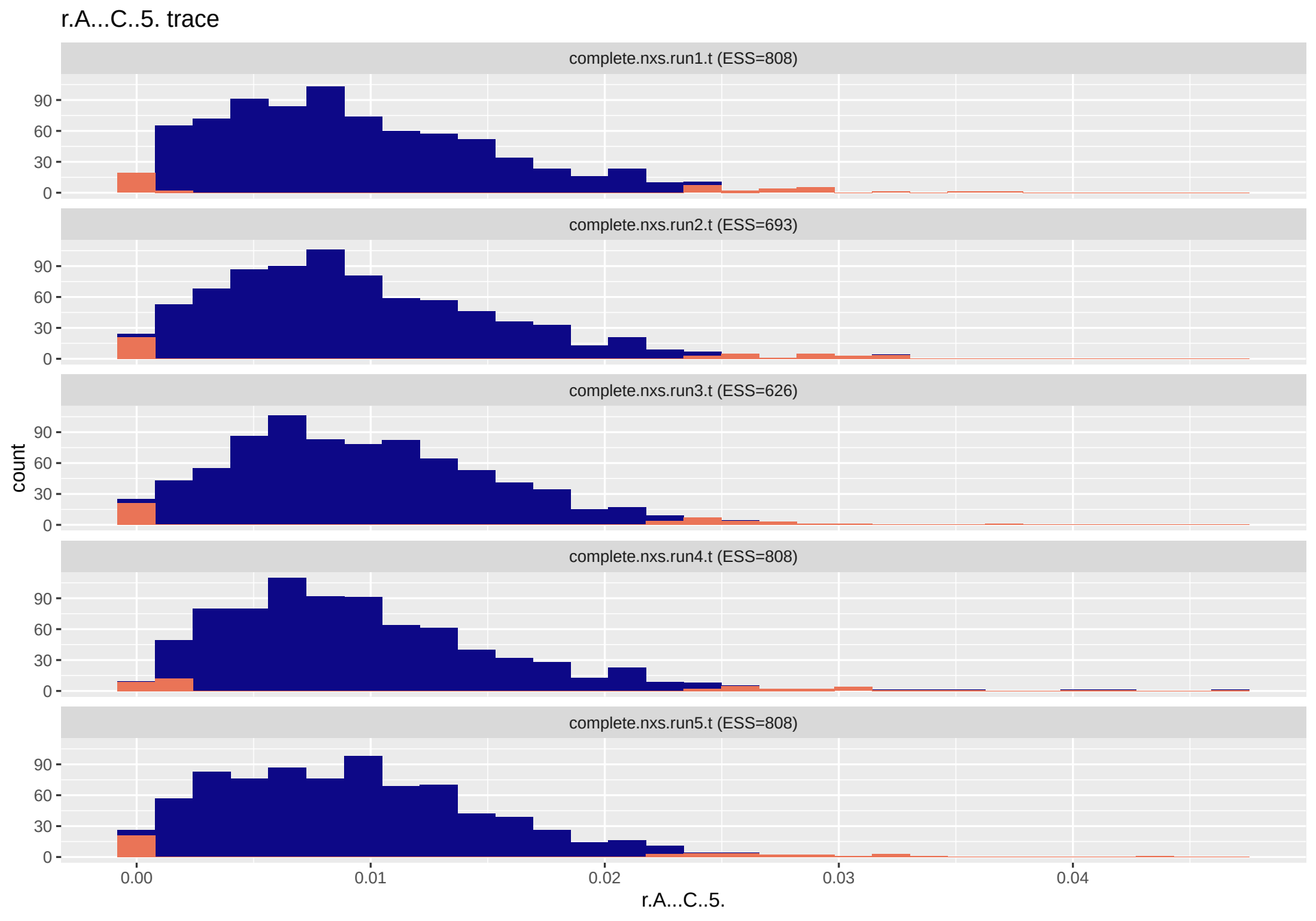

r.C...T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=658)
complete.nxs.run3.t (ESS=669)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=557)
r.C...T..3.
0.9
0.8
0.7
0.6
2e+06
4e+06
6e+06
8e+06
Generation

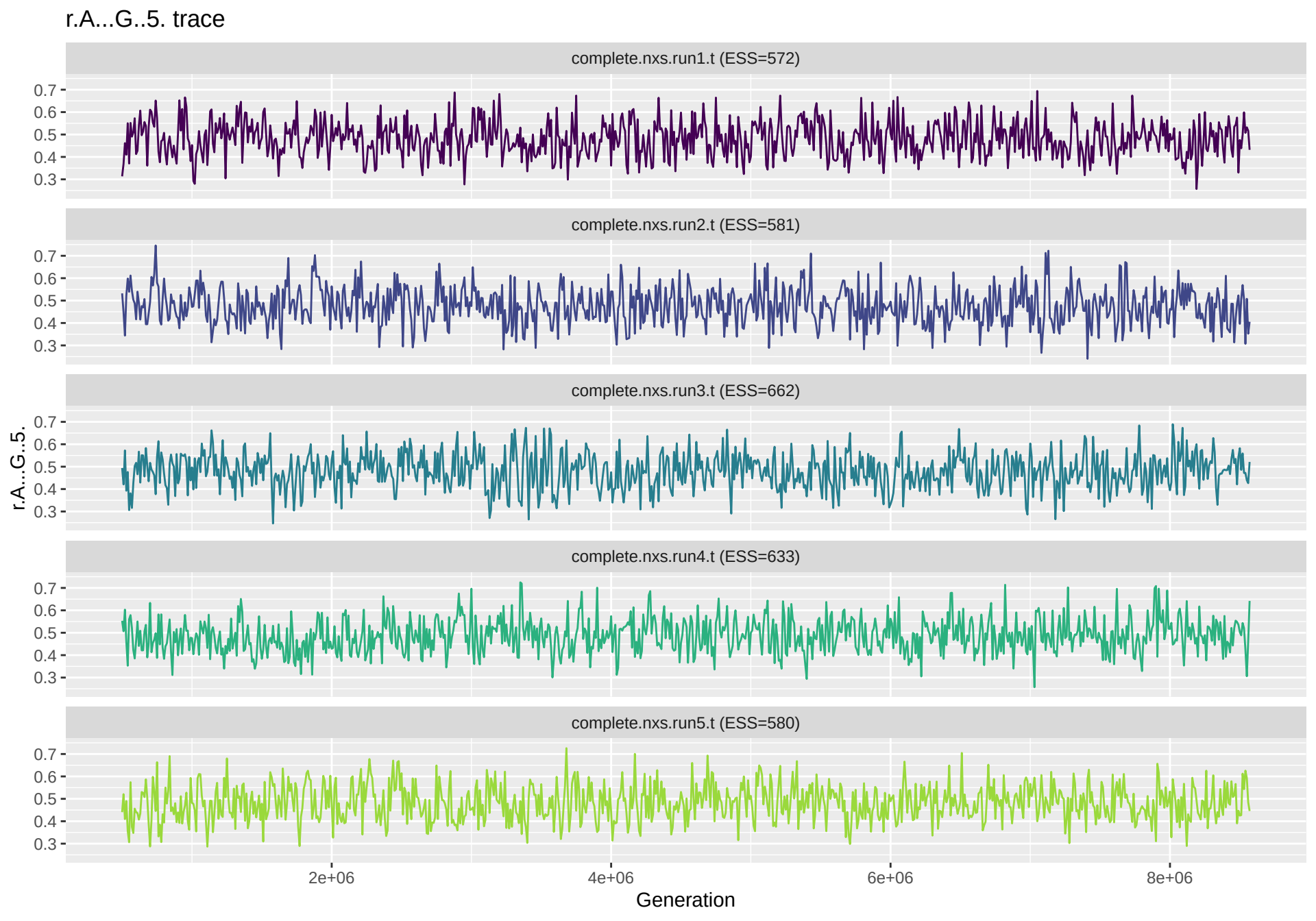

r.C...T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=658)
complete.nxs.run3.t (ESS=669)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=557)
count
0
25
50
75
0.6
0.7
0.8
0.9
r.C...T..3.

r.G...T..3. trace
complete.nxs.run1.t (ESS=841)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=717)
complete.nxs.run5.t (ESS=808)
0.100
0.075
0.050
0.025
0.000
r.G...T..3.
2e+06
4e+06
6e+06
8e+06
Generation

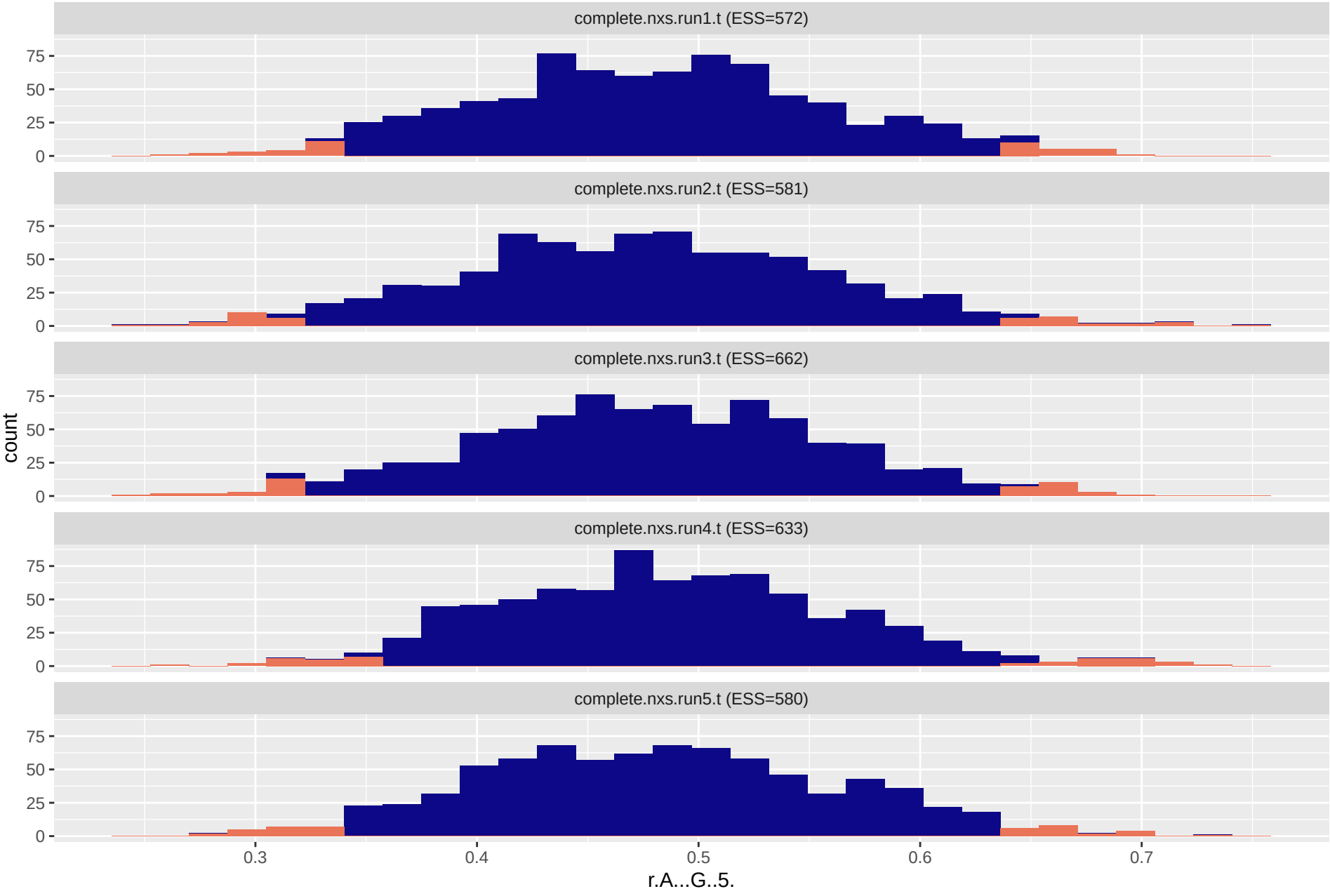

r.G...T..3. trace
complete.nxs.run1.t (ESS=841)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=717)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
120
0.000
0.025
0.050
0.075
0.100
r.G...T..3.

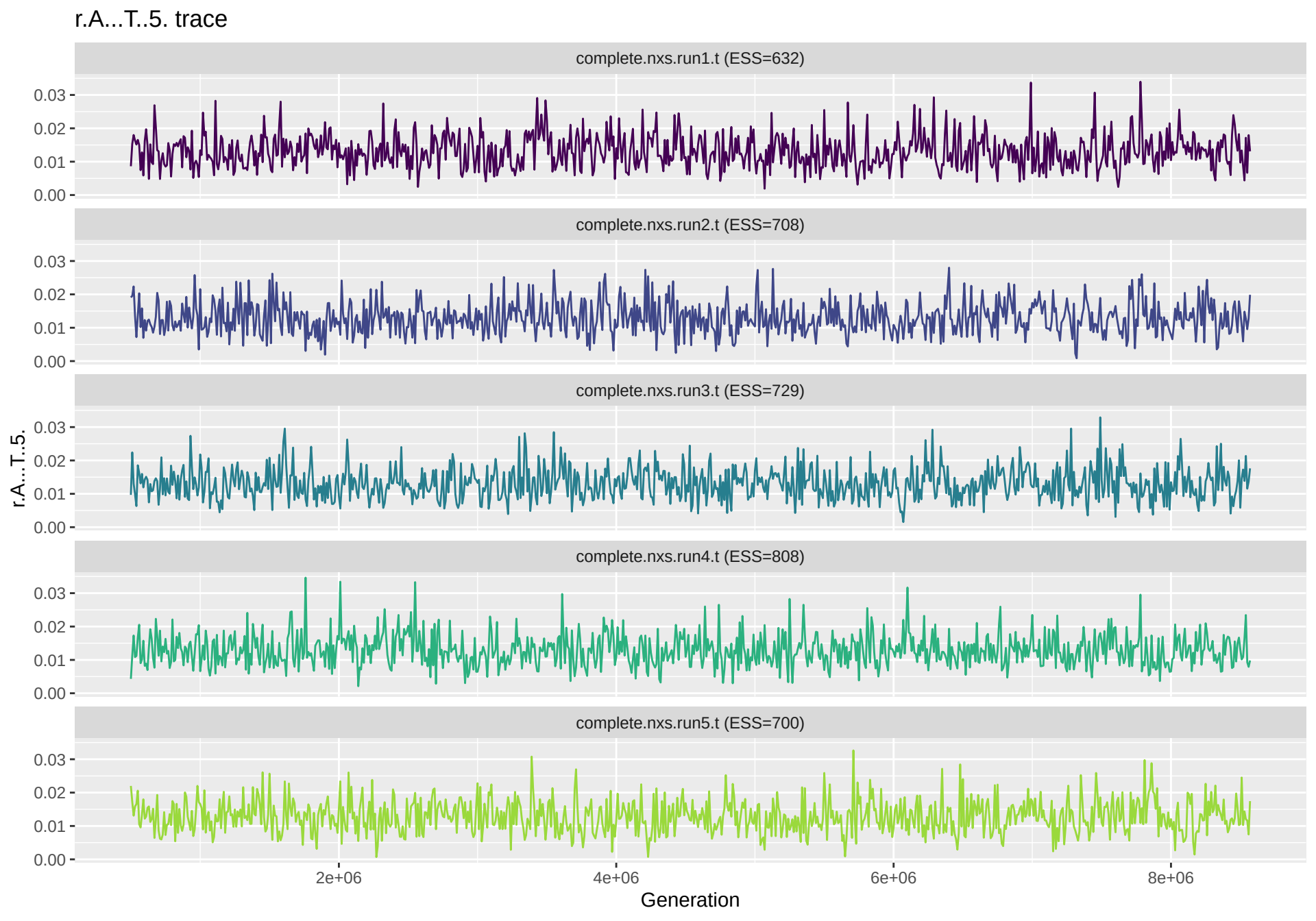

r.A...C..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=693)
complete.nxs.run3.t (ESS=626)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
r.A...C..5.
0.04
0.03
0.02
0.01
0.00
2e+06
4e+06
6e+06
8e+06
Generation

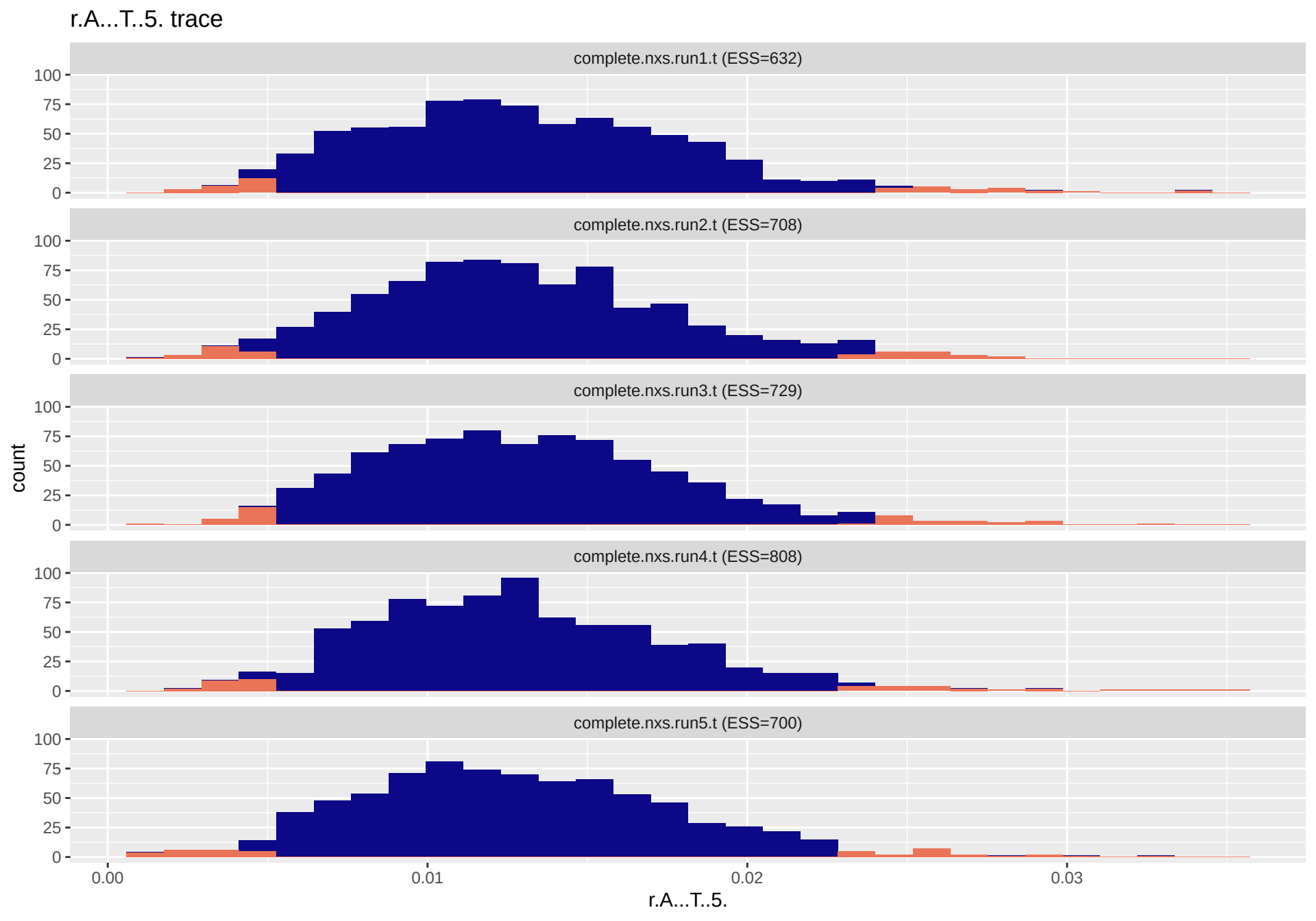

r.A...C..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=693)
complete.nxs.run3.t (ESS=626)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
0.00
0.01
0.02
0.03
0.04
r.A...C..5.

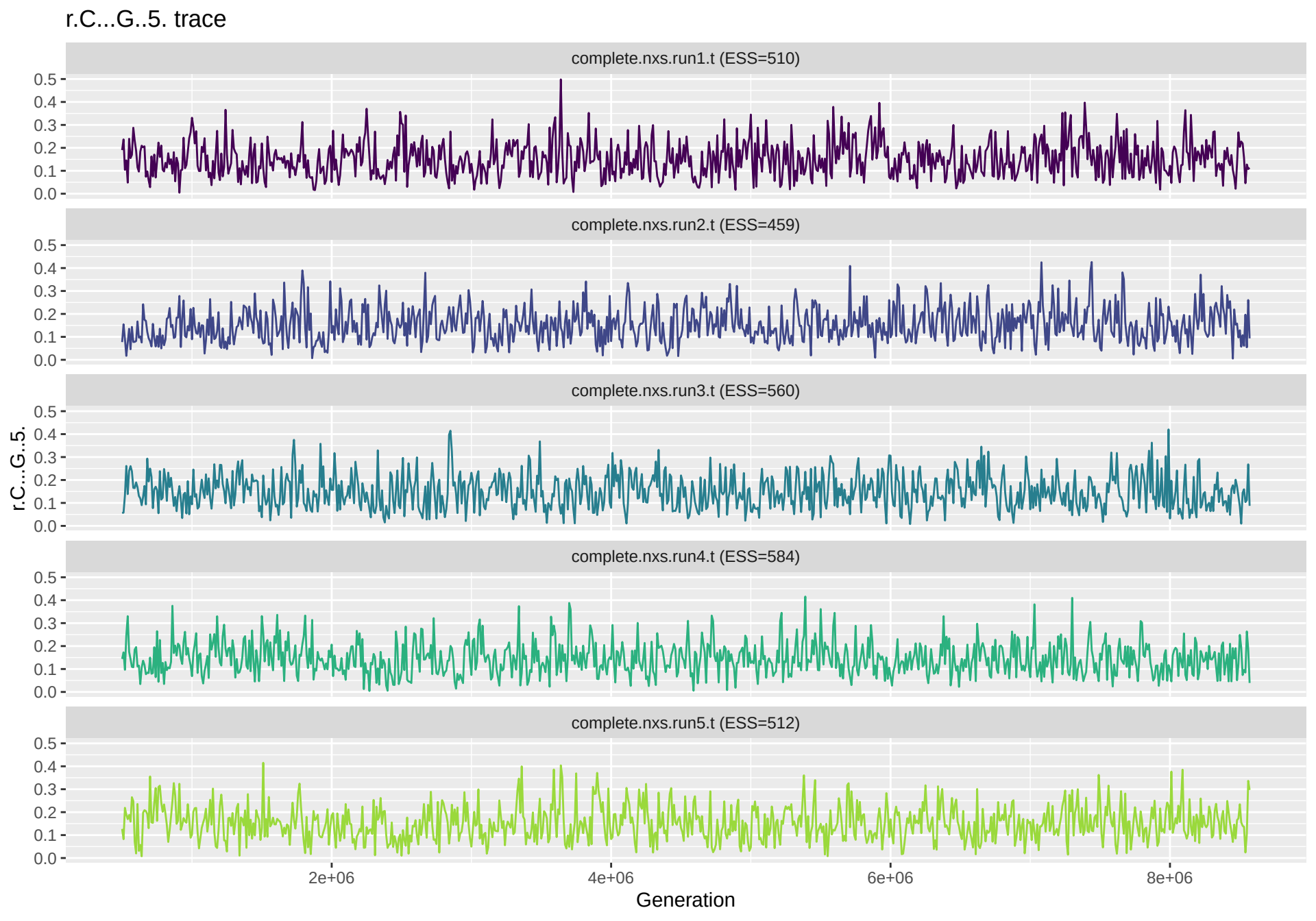

r.A...G..5. trace
complete.nxs.run1.t (ESS=572)
complete.nxs.run2.t (ESS=581)
complete.nxs.run3.t (ESS=662)
complete.nxs.run4.t (ESS=633)
complete.nxs.run5.t (ESS=580)
r.A...G..5.
0.7
0.6
0.5
0.4
0.3
2e+06
4e+06
6e+06
8e+06
Generation

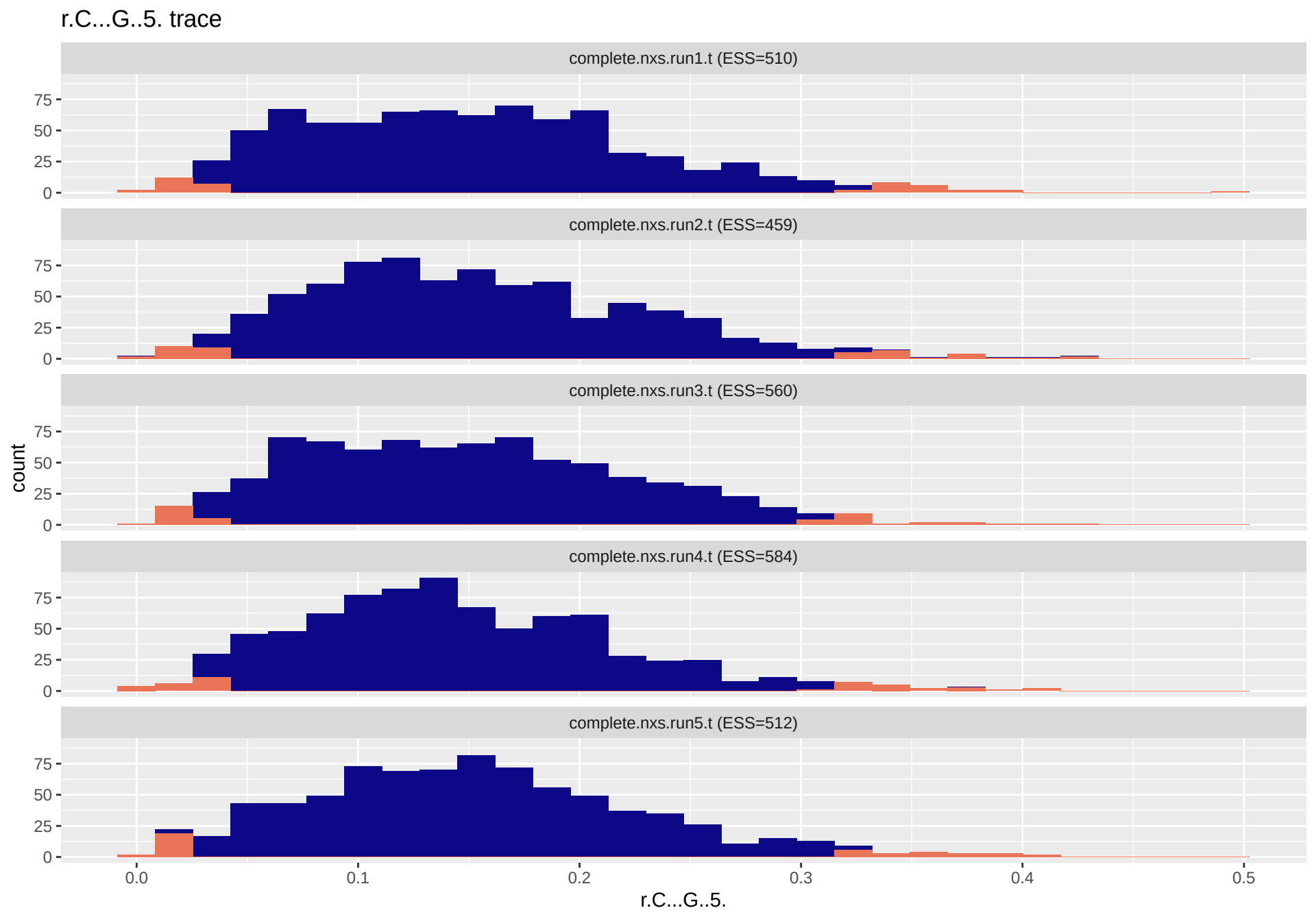
r.A...G..5. trace

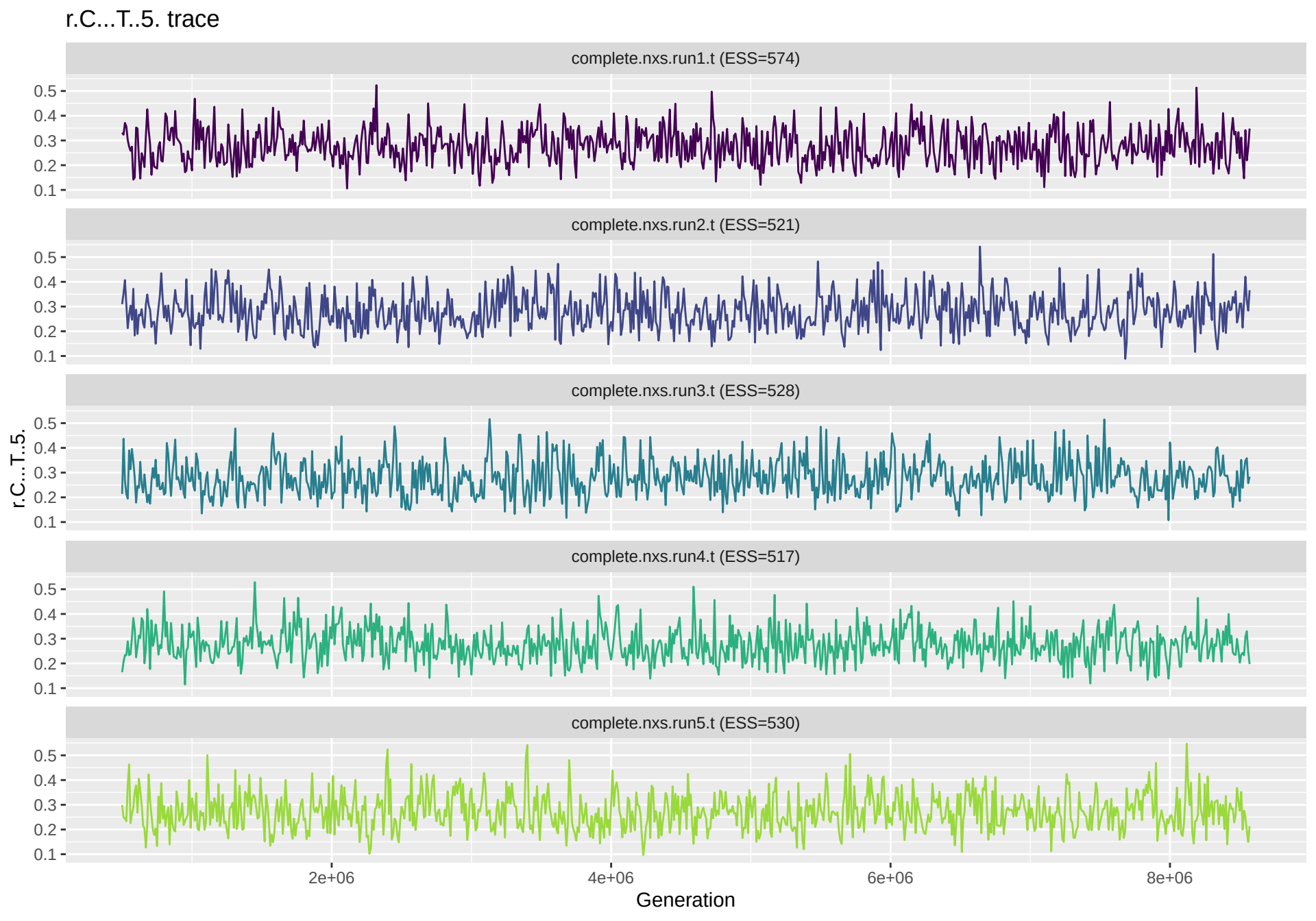

complete.nxs.run1.t (ESS=572)
complete.nxs.run2.t (ESS=581)
complete.nxs.run3.t (ESS=662)
complete.nxs.run4.t (ESS=633)
complete.nxs.run5.t (ESS=580)
count
0
25
50
75
0.3
0.4
0.5
0.6
0.7
r.A...G..5.

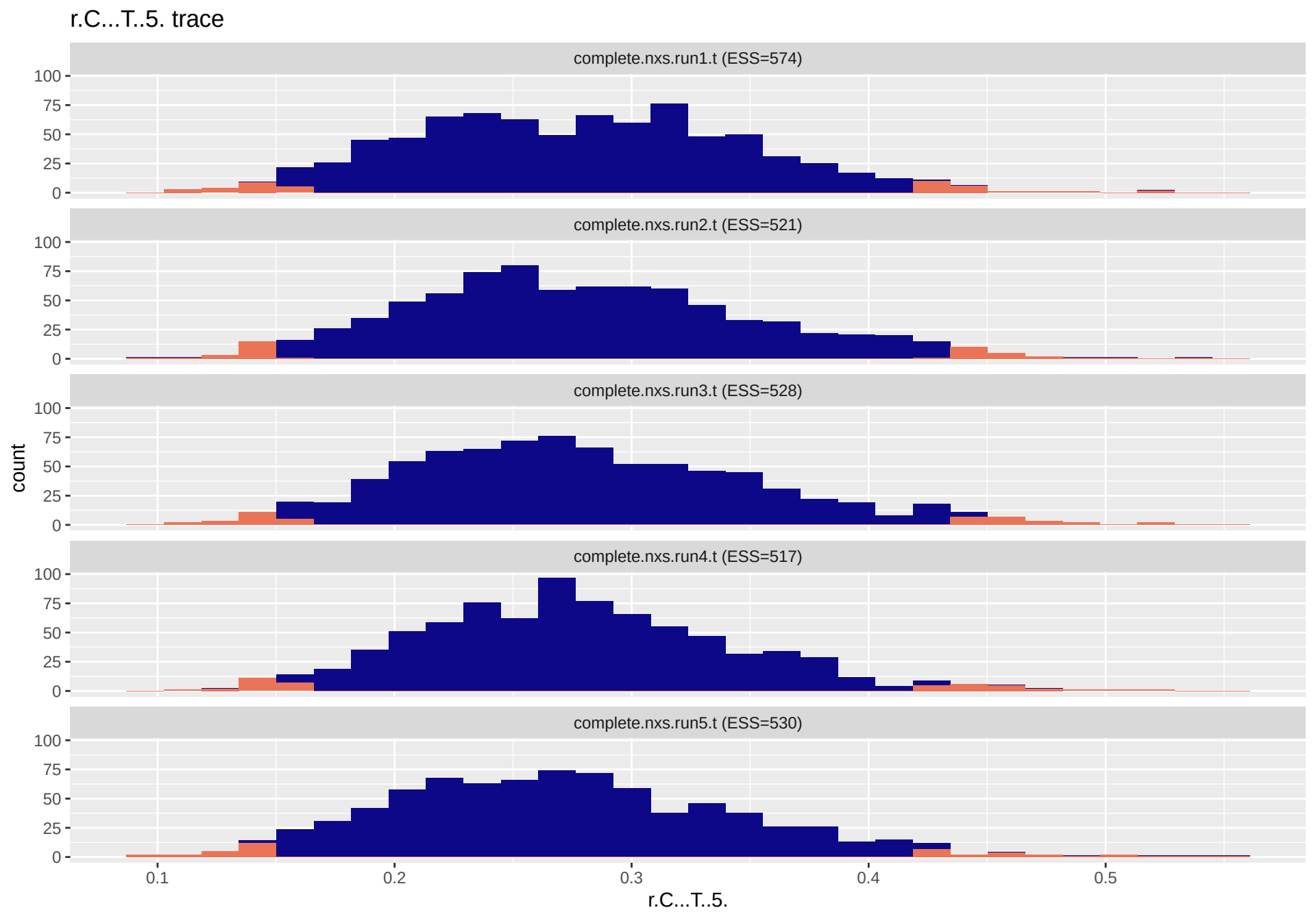

r.A...T..5. trace
complete.nxs.run1.t (ESS=632)
complete.nxs.run2.t (ESS=708)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=700)
r.A...T..5.
0.03
0.02
0.01
0.00
2e+06
4e+06
6e+06
8e+06
Generation

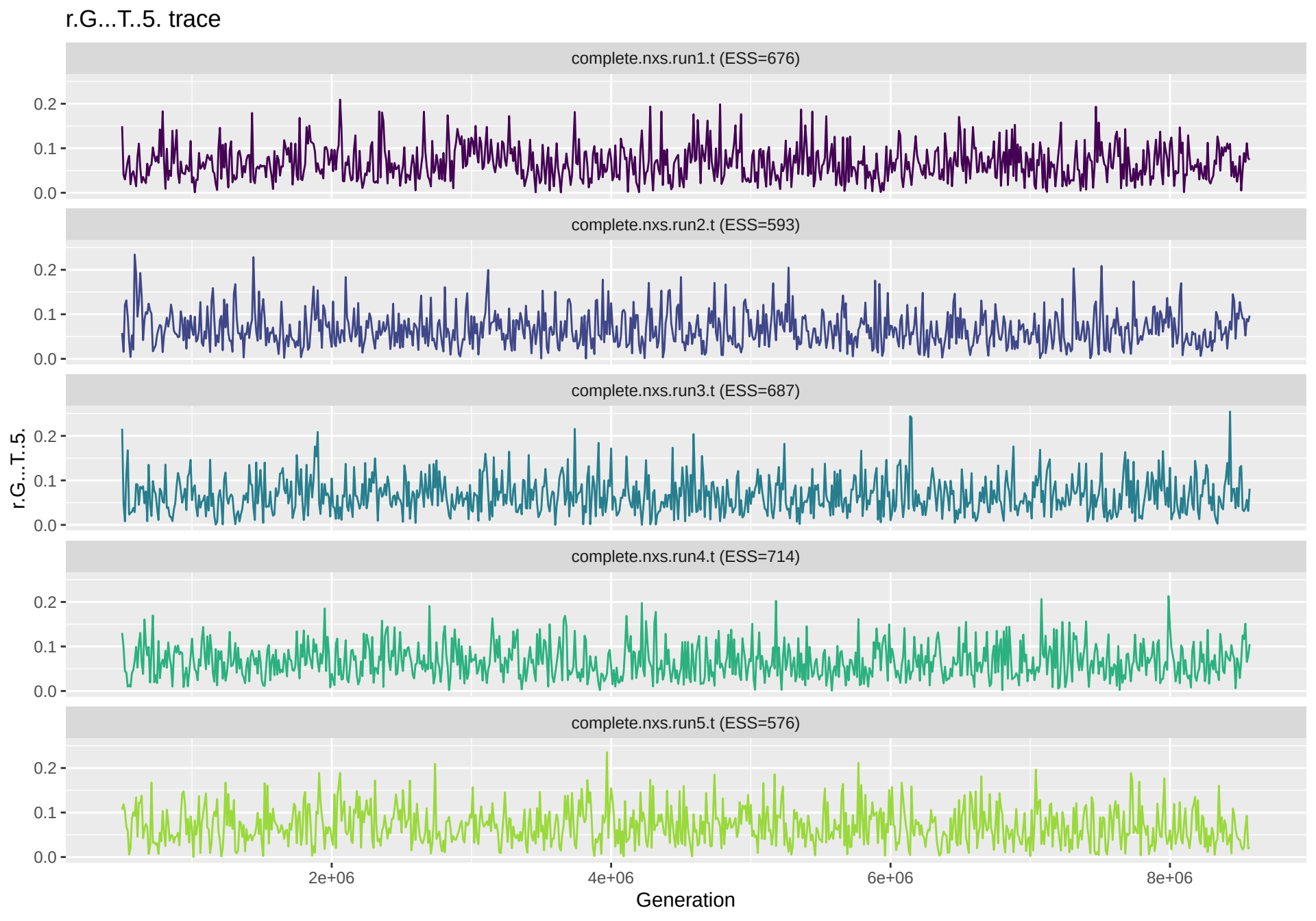

r.A...T..5. trace
complete.nxs.run1.t (ESS=632)
complete.nxs.run2.t (ESS=708)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=700)
count
0
25
50
75
100
0.00
0.01
0.02
0.03
r.A...T..5.

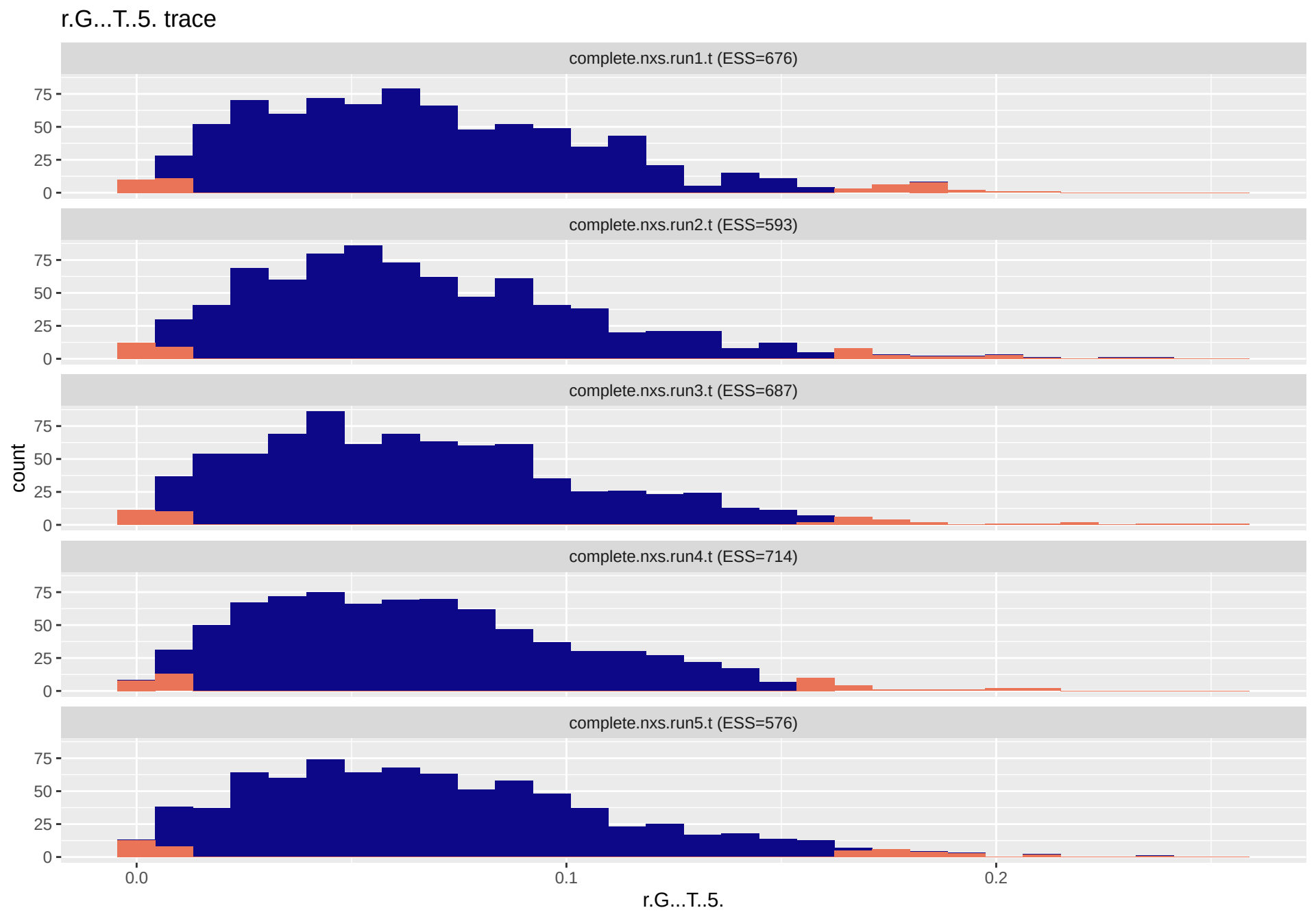

r.C...G..5. trace
complete.nxs.run1.t (ESS=510)
complete.nxs.run2.t (ESS=459)
complete.nxs.run3.t (ESS=560)
complete.nxs.run4.t (ESS=584)
complete.nxs.run5.t (ESS=512)
r.C...G..5.
0.0
0.1
0.2
0.3
0.4
0.5
2e+06
4e+06
6e+06
8e+06
Generation

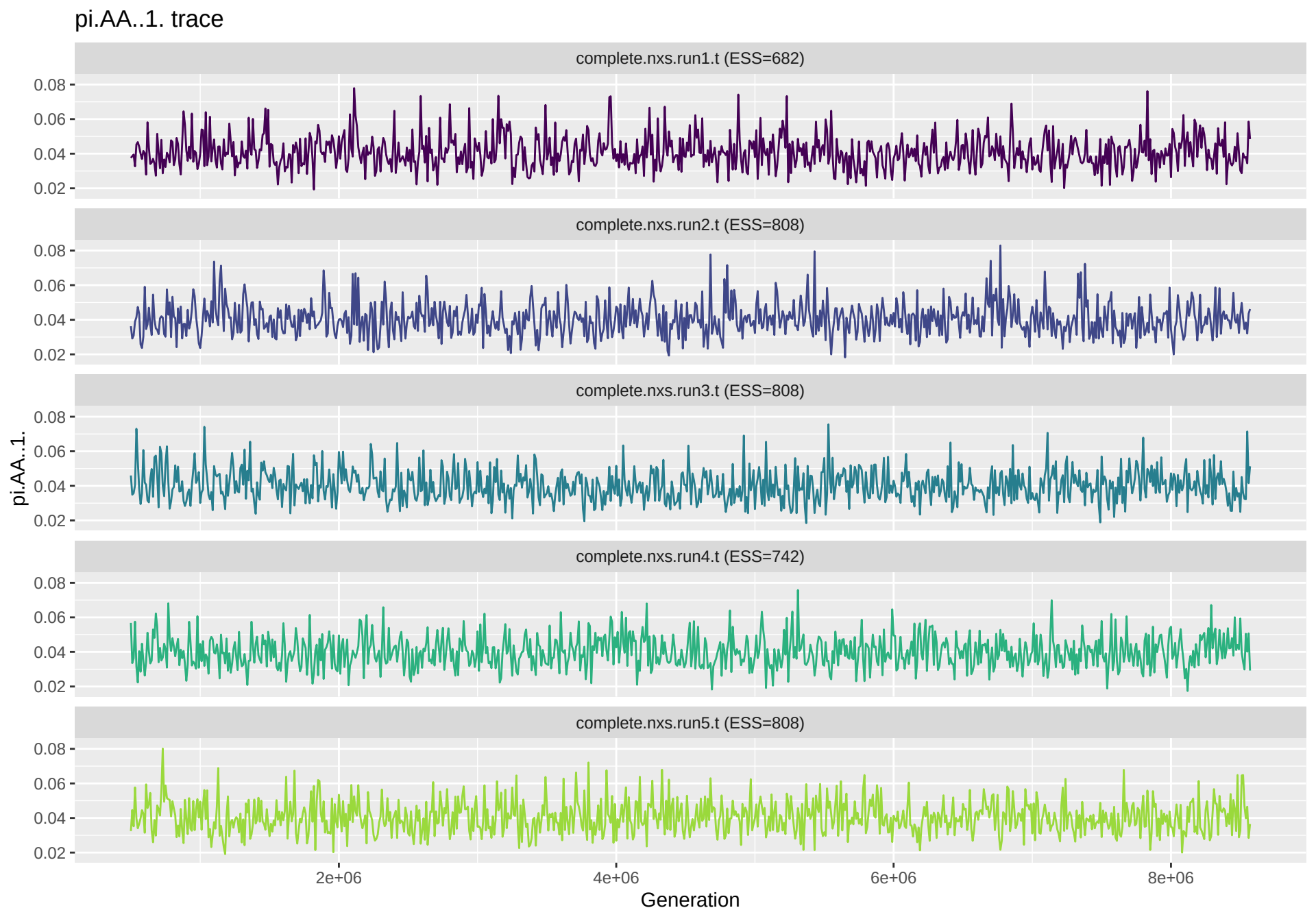

r.C...G..5. trace
complete.nxs.run1.t (ESS=510)
complete.nxs.run2.t (ESS=459)
complete.nxs.run3.t (ESS=560)
complete.nxs.run4.t (ESS=584)
complete.nxs.run5.t (ESS=512)
count
75
50
25
0
0.0
0.1
0.2
0.3
0.4
0.5
r.C...G..5.

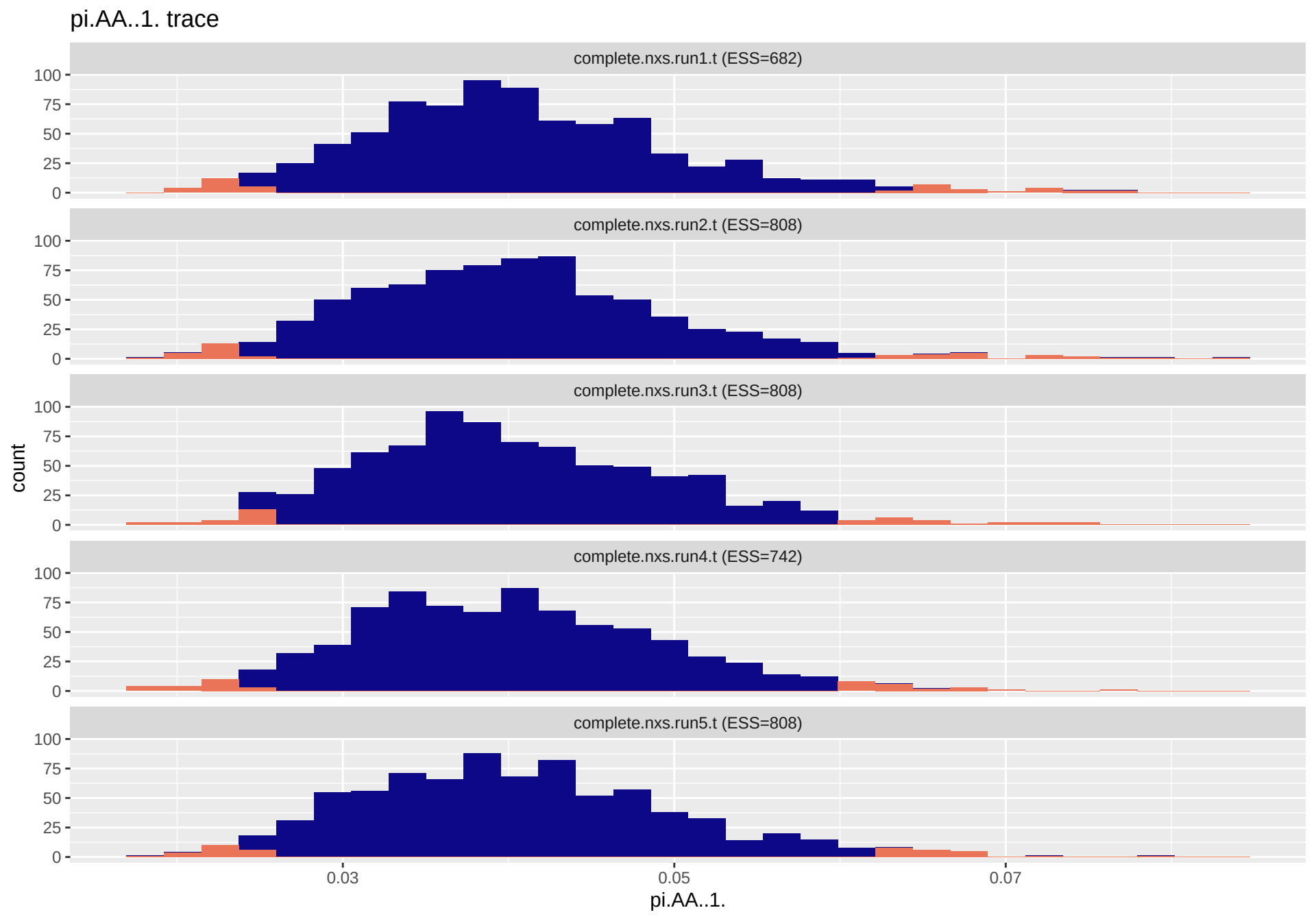

r.C...T..5. trace
complete.nxs.run1.t (ESS=574)
complete.nxs.run2.t (ESS=521)
complete.nxs.run3.t (ESS=528)
complete.nxs.run4.t (ESS=517)
complete.nxs.run5.t (ESS=530)
r.C...T..5.
0.5
0.4
0.3
0.2
0.1
2e+06
4e+06
6e+06
8e+06
Generation


r.C...T..5. trace
complete.nxs.run1.t (ESS=574)
complete.nxs.run2.t (ESS=521)
complete.nxs.run3.t (ESS=528)
complete.nxs.run4.t (ESS=517)
complete.nxs.run5.t (ESS=530)
count
0
25
50
75
100
0.1
0.2
0.3
0.4
0.5
r.C...T..5.

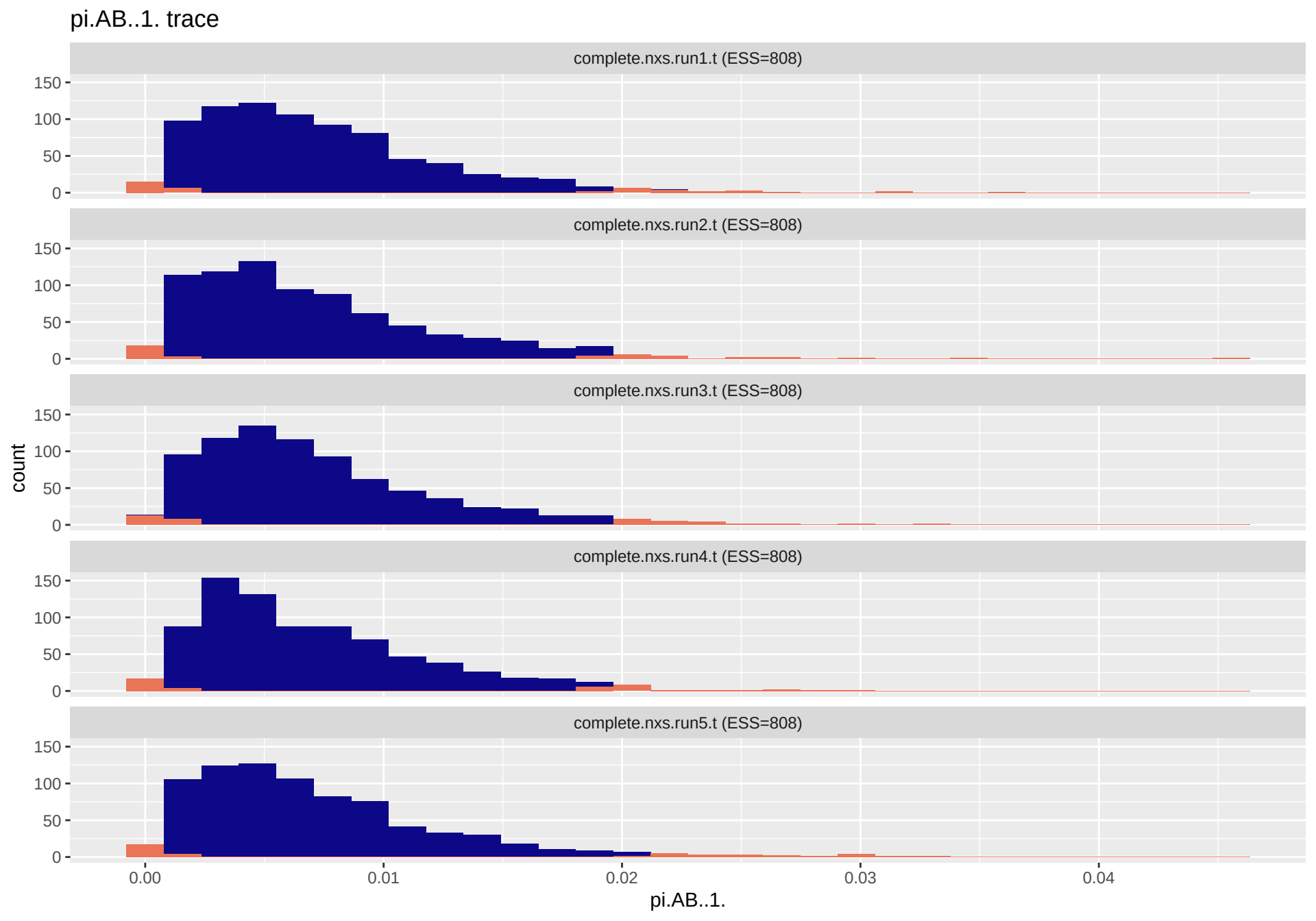

r.G...T..5. trace
complete.nxs.run1.t (ESS=676)
complete.nxs.run2.t (ESS=593)
complete.nxs.run3.t (ESS=687)
complete.nxs.run4.t (ESS=714)
complete.nxs.run5.t (ESS=576)
r.G...T..5.
0.0
0.1
0.2
2e+06
4e+06
6e+06
8e+06
Generation

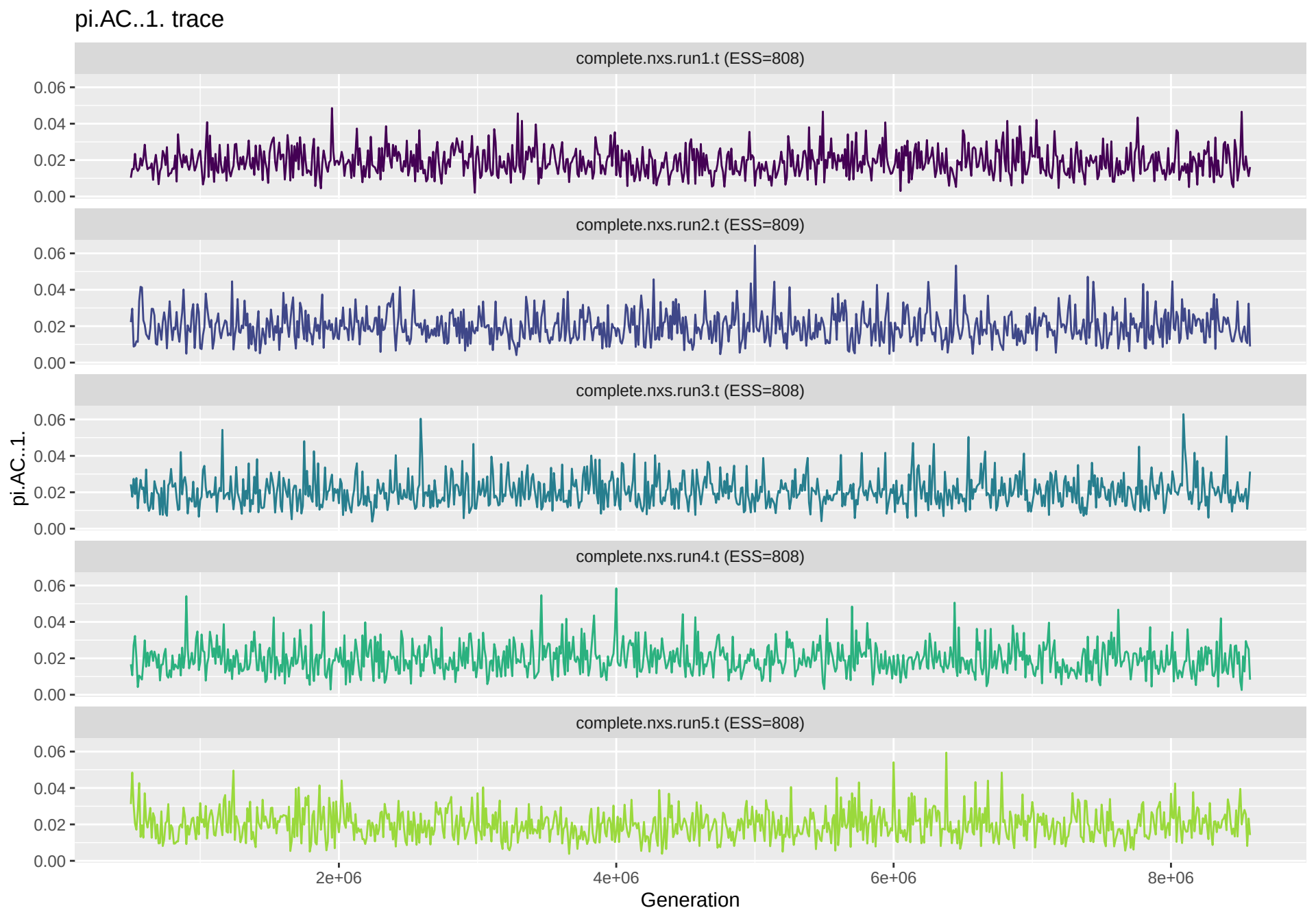

r.G...T..5. trace
complete.nxs.run1.t (ESS=676)
complete.nxs.run2.t (ESS=593)
complete.nxs.run3.t (ESS=687)
complete.nxs.run4.t (ESS=714)
complete.nxs.run5.t (ESS=576)
count
75
50
25
0
0.0
0.1
0.2
r.G...T..5.

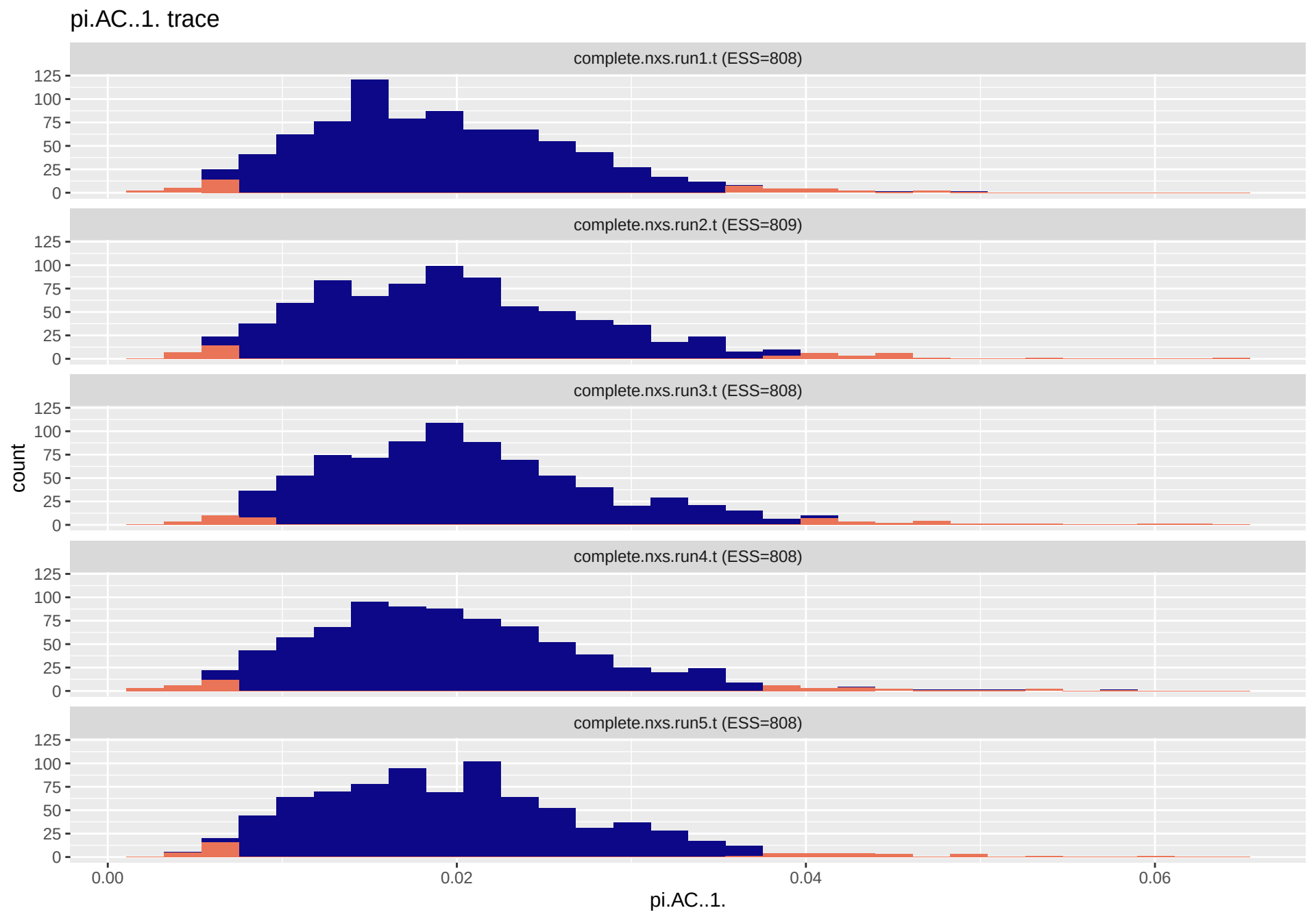

pi.AA..1. trace
complete.nxs.run1.t (ESS=682)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=742)
complete.nxs.run5.t (ESS=808)
pi.AA..1.
0.08
0.06
0.04
0.02
2e+06
4e+06
6e+06
8e+06
Generation

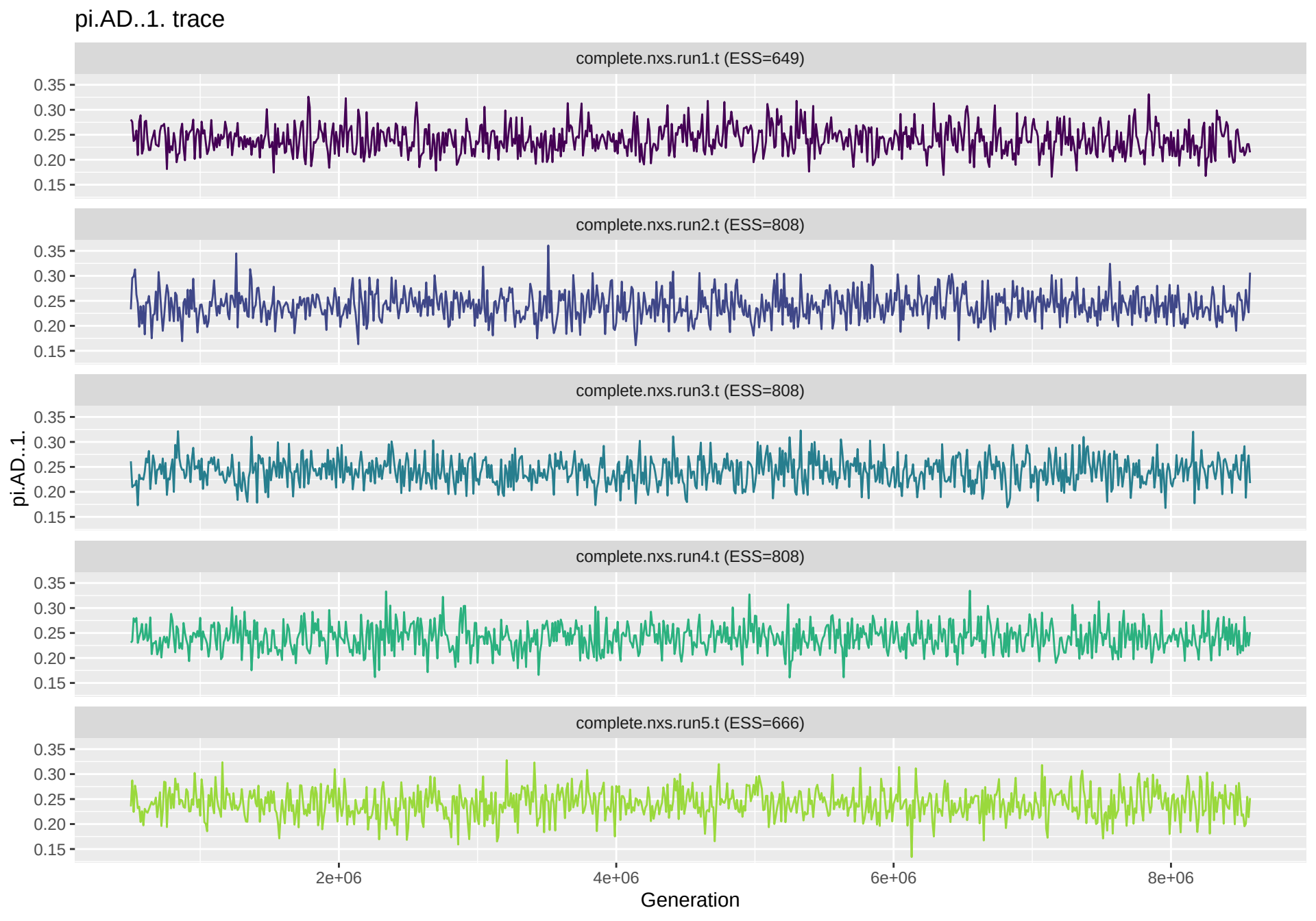

pi.AA..1. trace
complete.nxs.run1.t (ESS=682)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=742)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.03
0.05
0.07
pi.AA..1.

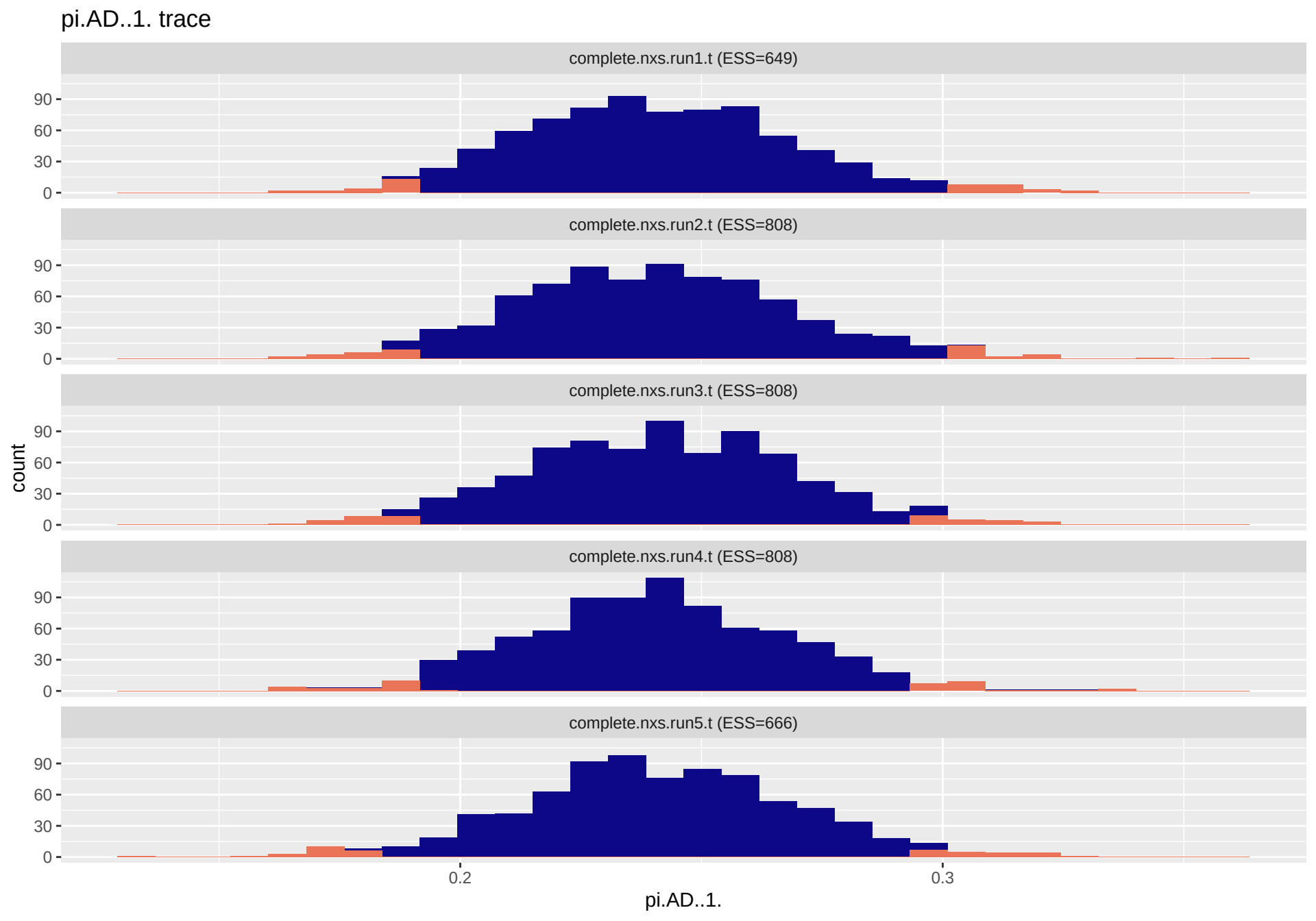
pi.AB..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.AB..1.
0.04
0.03
0.02
0.01
0.00
2e+06
4e+06
6e+06
8e+06
Generation

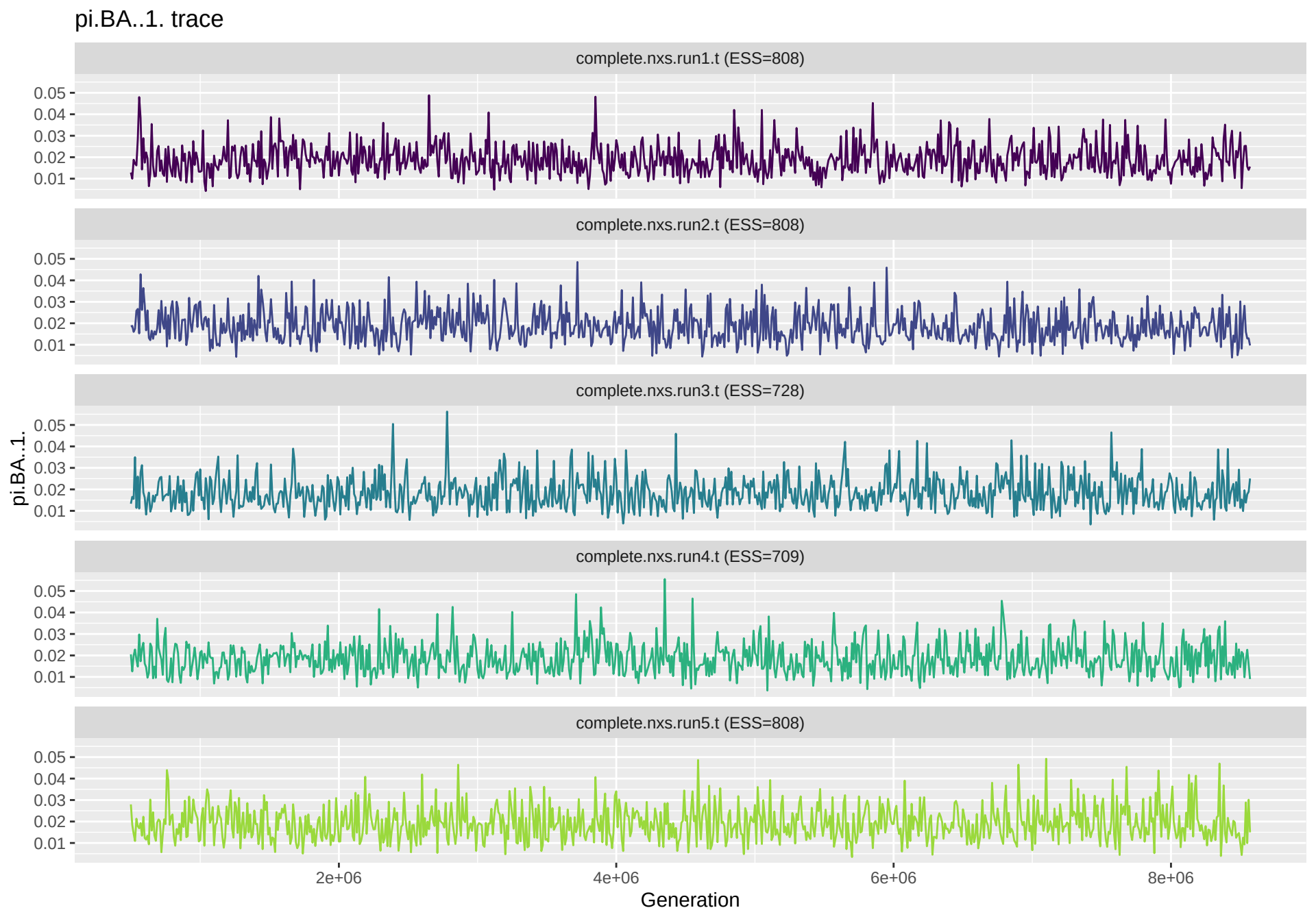

pi.AB..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
50
100
150
0.00
0.01
0.02
0.03
0.04
pi.AB..1.

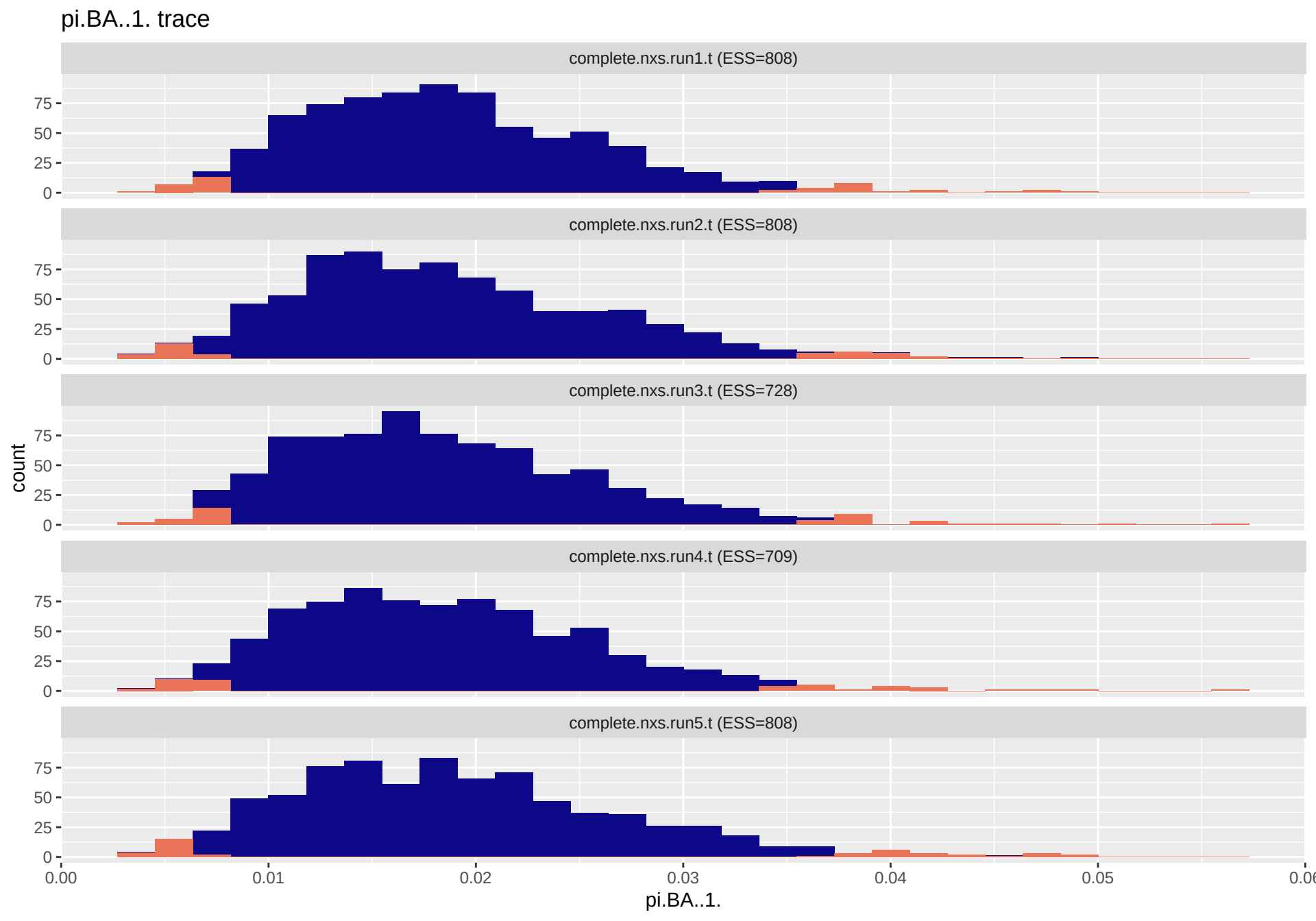

pi.AC..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=809)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.AC..1.
0.06
0.04
0.02
0.00
2e+06
4e+06
6e+06
8e+06
Generation

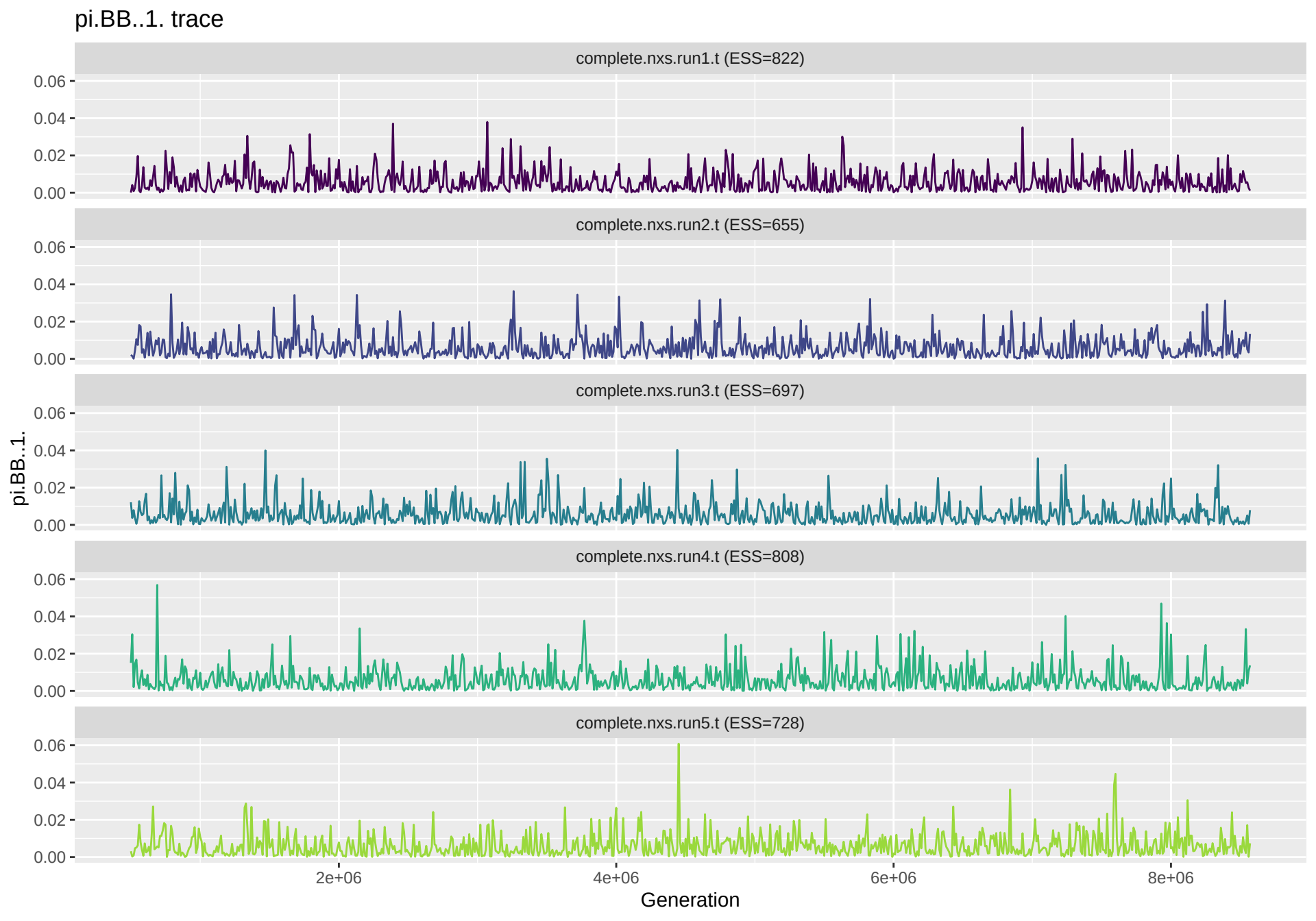

pi.AC..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=809)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
125
0.00
0.02
0.04
0.06
pi.AC..1.

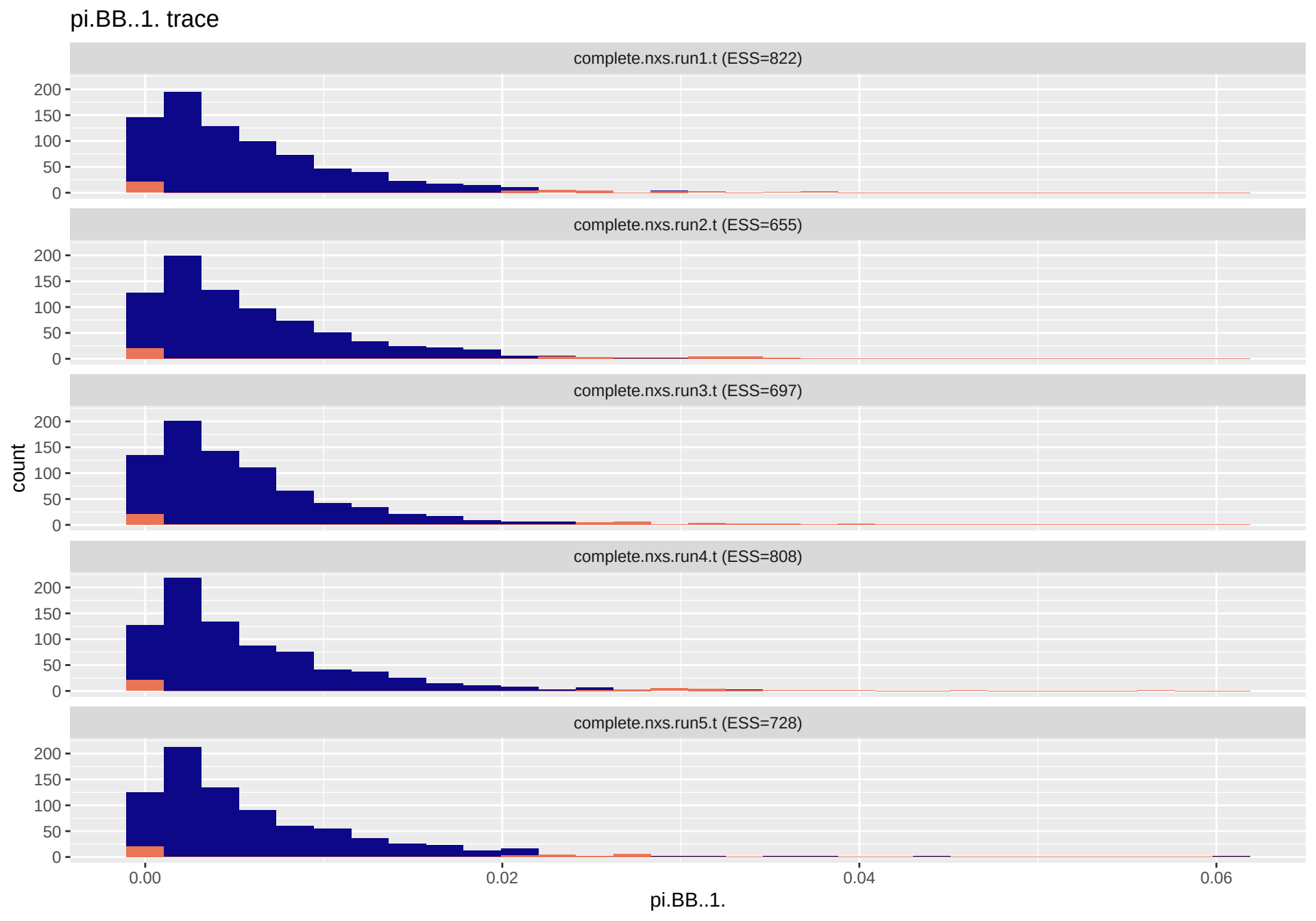

pi.AD..1. trace
complete.nxs.run1.t (ESS=649)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=666)
pi.AD..1.
0.35
0.30
0.25
0.20
0.15
2e+06
4e+06
6e+06
8e+06
Generation

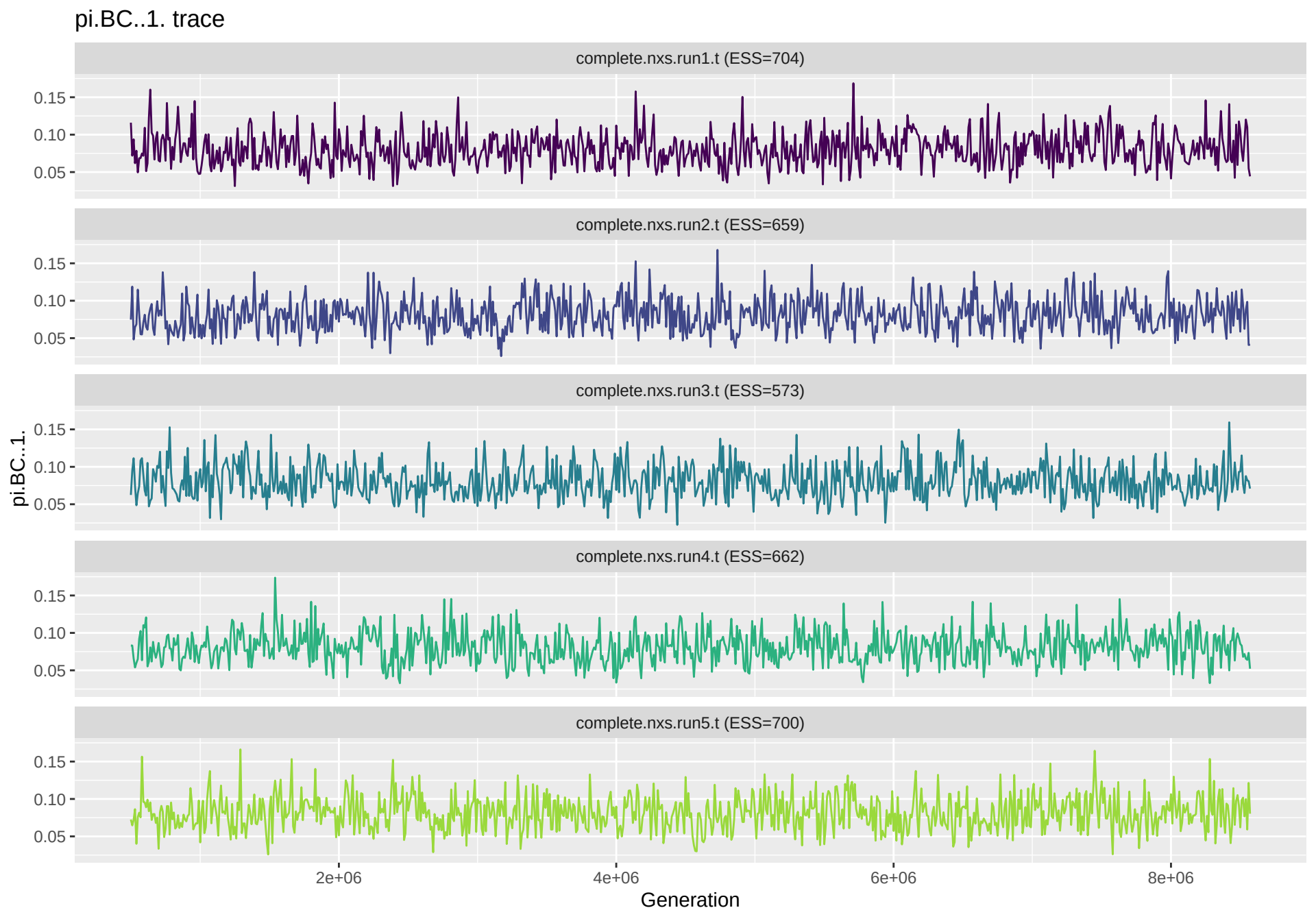

pi.AD..1. trace
complete.nxs.run1.t (ESS=649)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=666)
count
0
30
60
90
0.2
0.3
pi.AD..1.

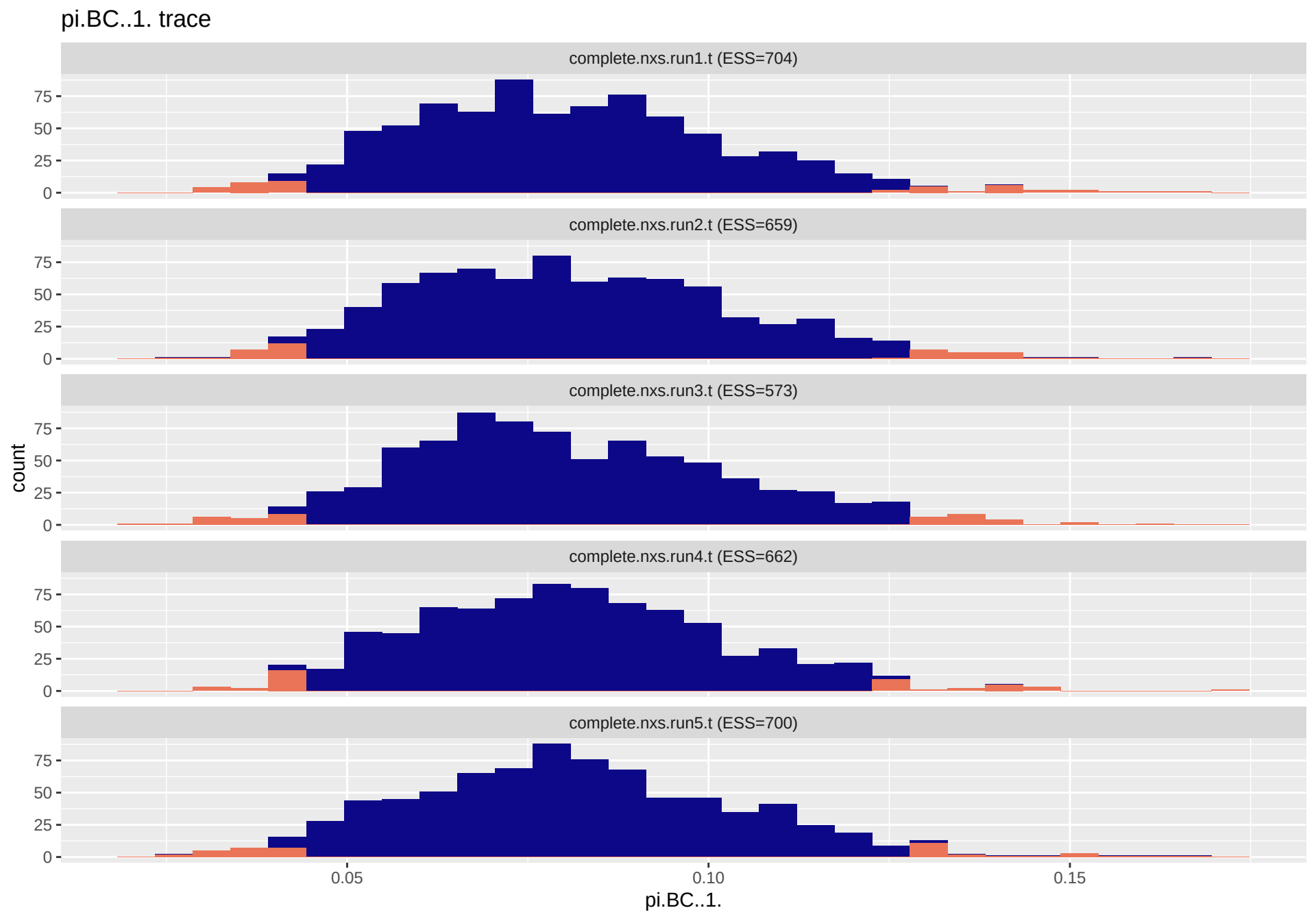

pi.BA..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=728)
complete.nxs.run4.t (ESS=709)
complete.nxs.run5.t (ESS=808)
pi.BA..1.
0.05
0.04
0.03
0.02
0.01
2e+06
4e+06
6e+06
8e+06
Generation


pi.BA..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=728)
complete.nxs.run4.t (ESS=709)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.00
0.01
0.02
0.03
0.04
0.05
pi.BA..1.

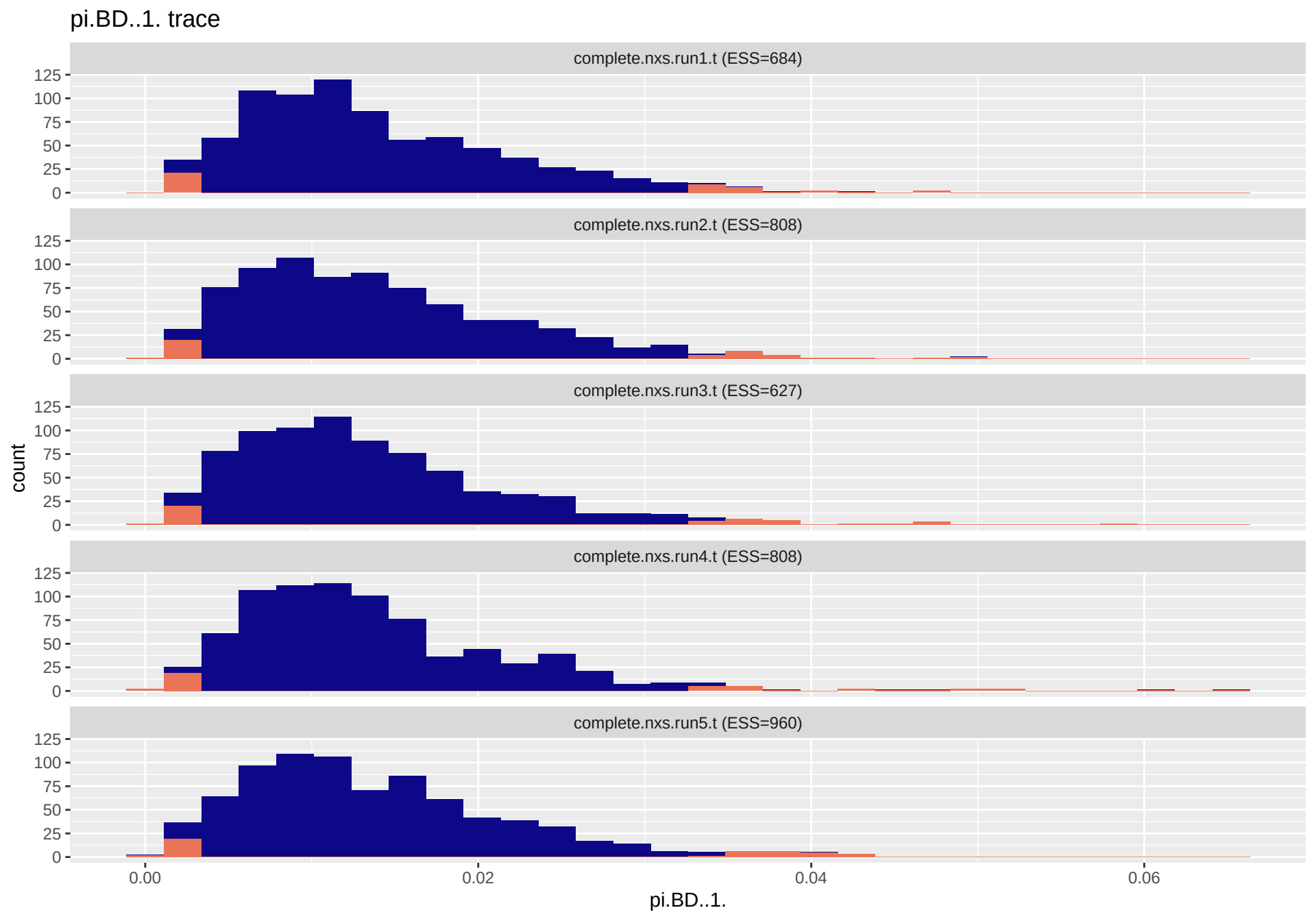

pi.BB..1. trace
complete.nxs.run1.t (ESS=822)
complete.nxs.run2.t (ESS=655)
complete.nxs.run3.t (ESS=697)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=728)
pi.BB..1.
0.06
0.04
0.02
0.00
2e+06
4e+06
6e+06
8e+06
Generation

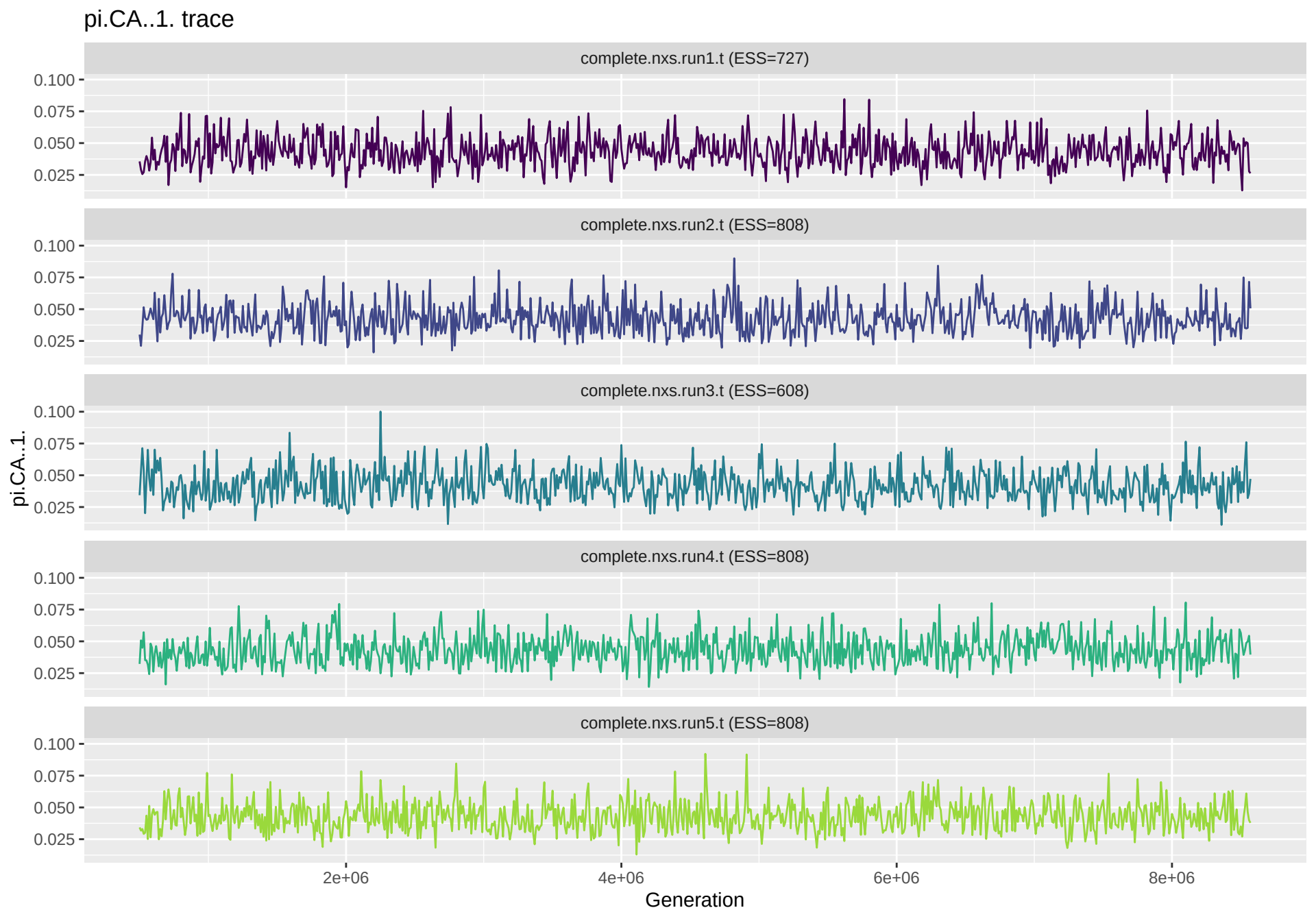

pi.BB..1. trace
complete.nxs.run1.t (ESS=822)
complete.nxs.run2.t (ESS=655)
complete.nxs.run3.t (ESS=697)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=728)
count
0
50
100
150
200
0.00
0.02
0.04
0.06
pi.BB..1.

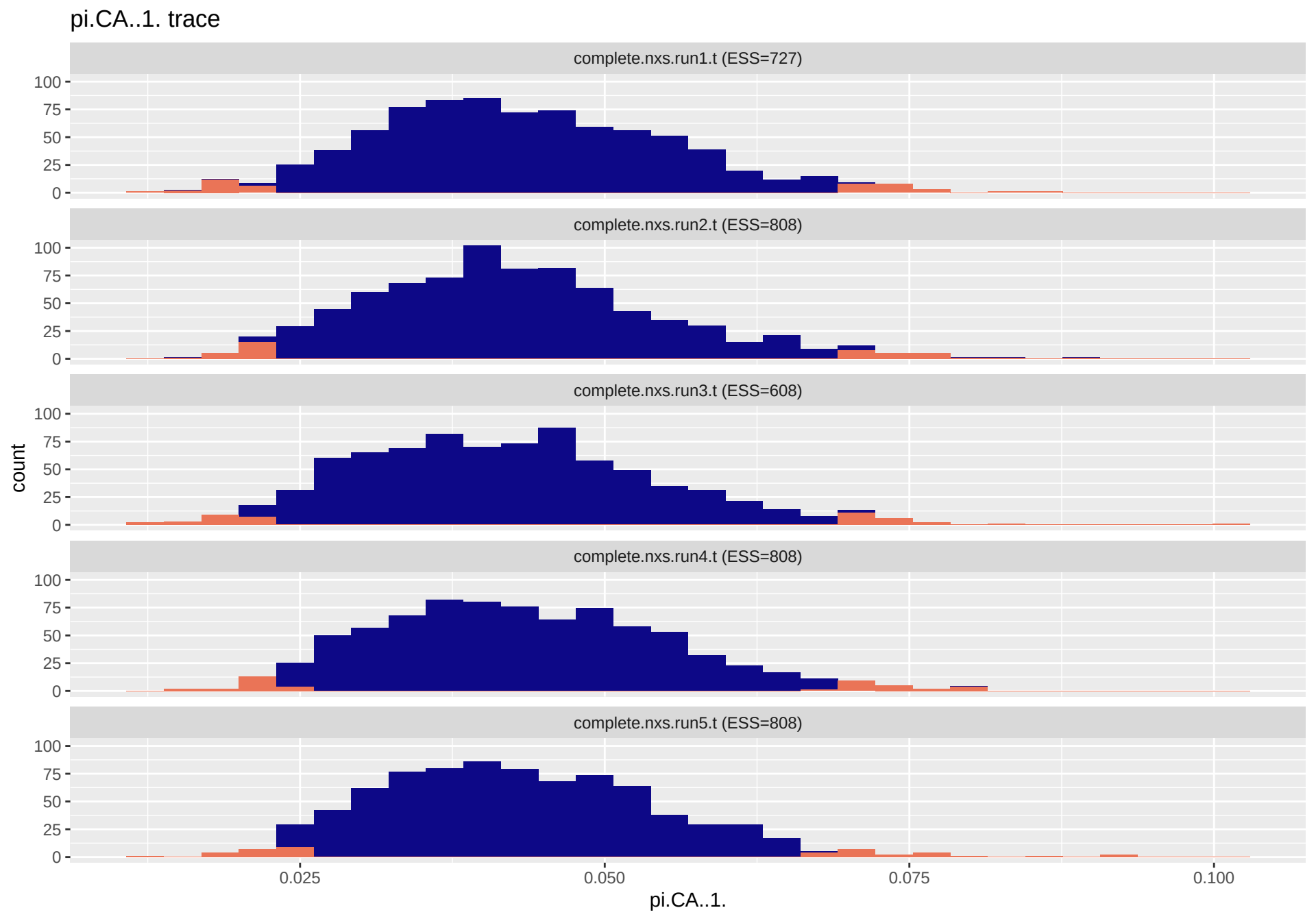

pi.BC..1. trace
complete.nxs.run1.t (ESS=704)
complete.nxs.run2.t (ESS=659)
complete.nxs.run3.t (ESS=573)
complete.nxs.run4.t (ESS=662)
complete.nxs.run5.t (ESS=700)
pi.BC..1.
0.15
0.10
0.05
2e+06
4e+06
6e+06
8e+06
Generation

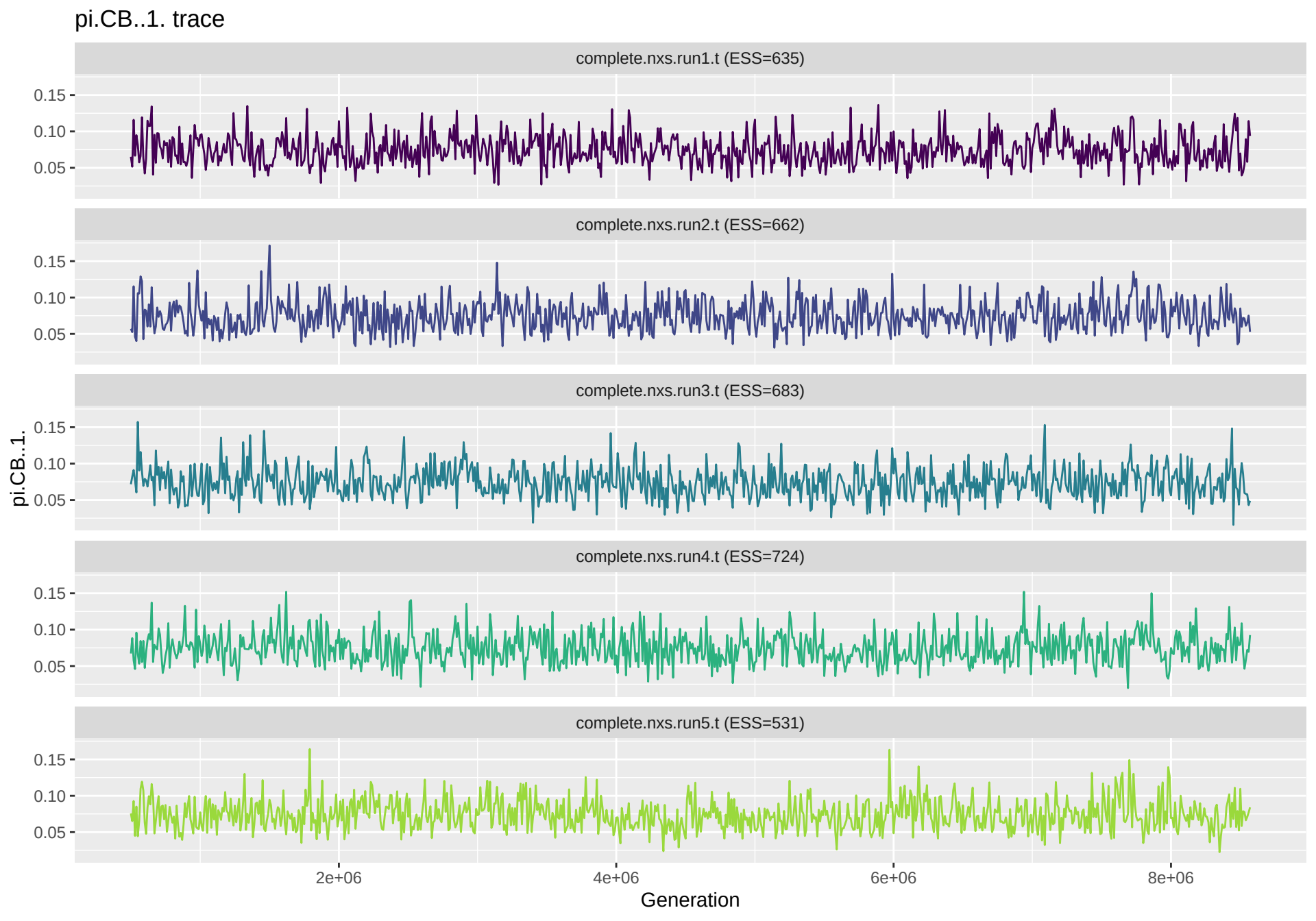

pi.BC..1. trace
complete.nxs.run1.t (ESS=704)
complete.nxs.run2.t (ESS=659)
complete.nxs.run3.t (ESS=573)
complete.nxs.run4.t (ESS=662)
complete.nxs.run5.t (ESS=700)
count
0
25
50
75
0.05
0.10
0.15
pi.BC..1.

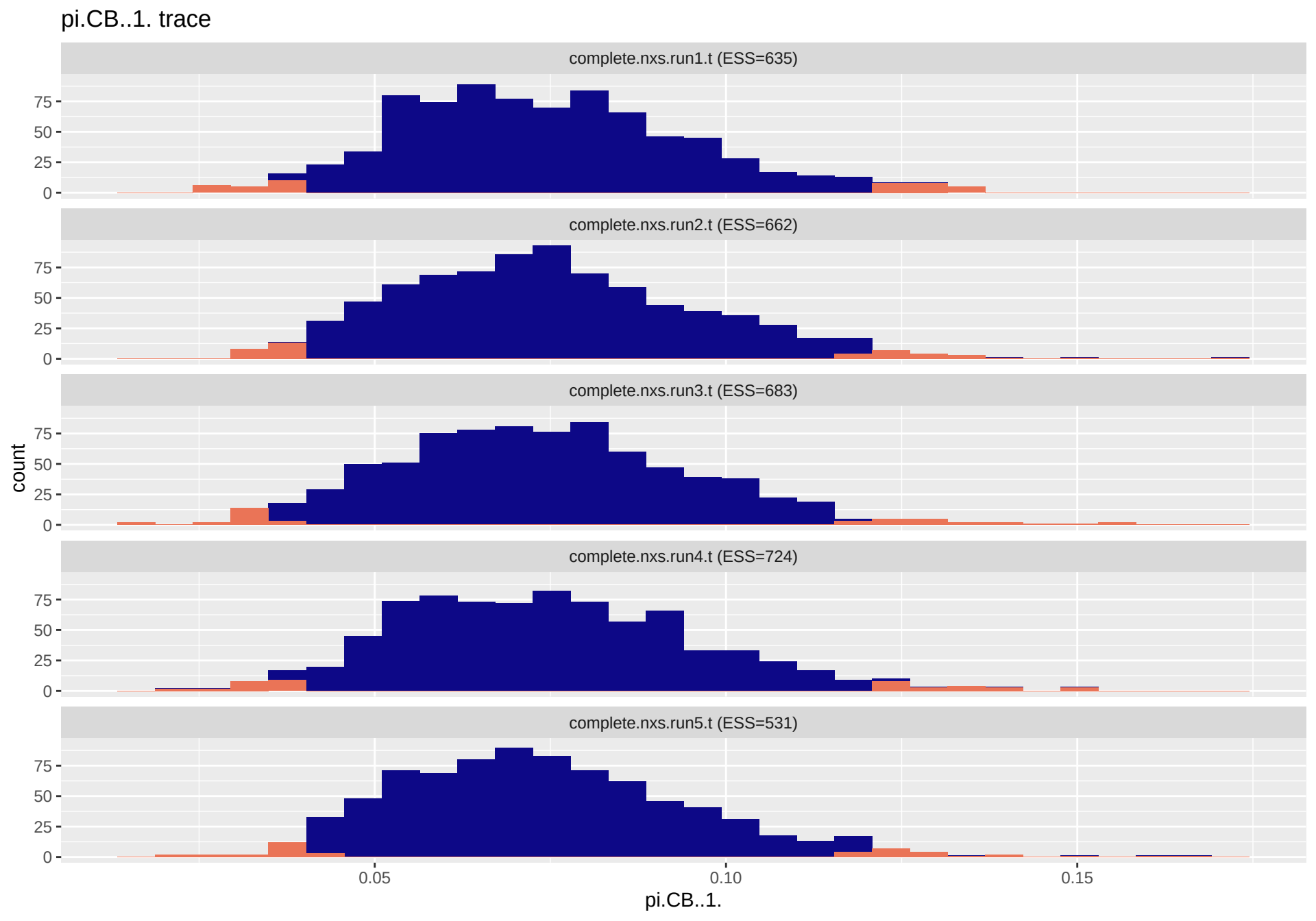
pi.BD..1. trace
complete.nxs.run1.t (ESS=684)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=627)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=960)
pi.BD..1.
0.06
0.04
0.02
0.00
2e+06
4e+06
6e+06
8e+06
Generation

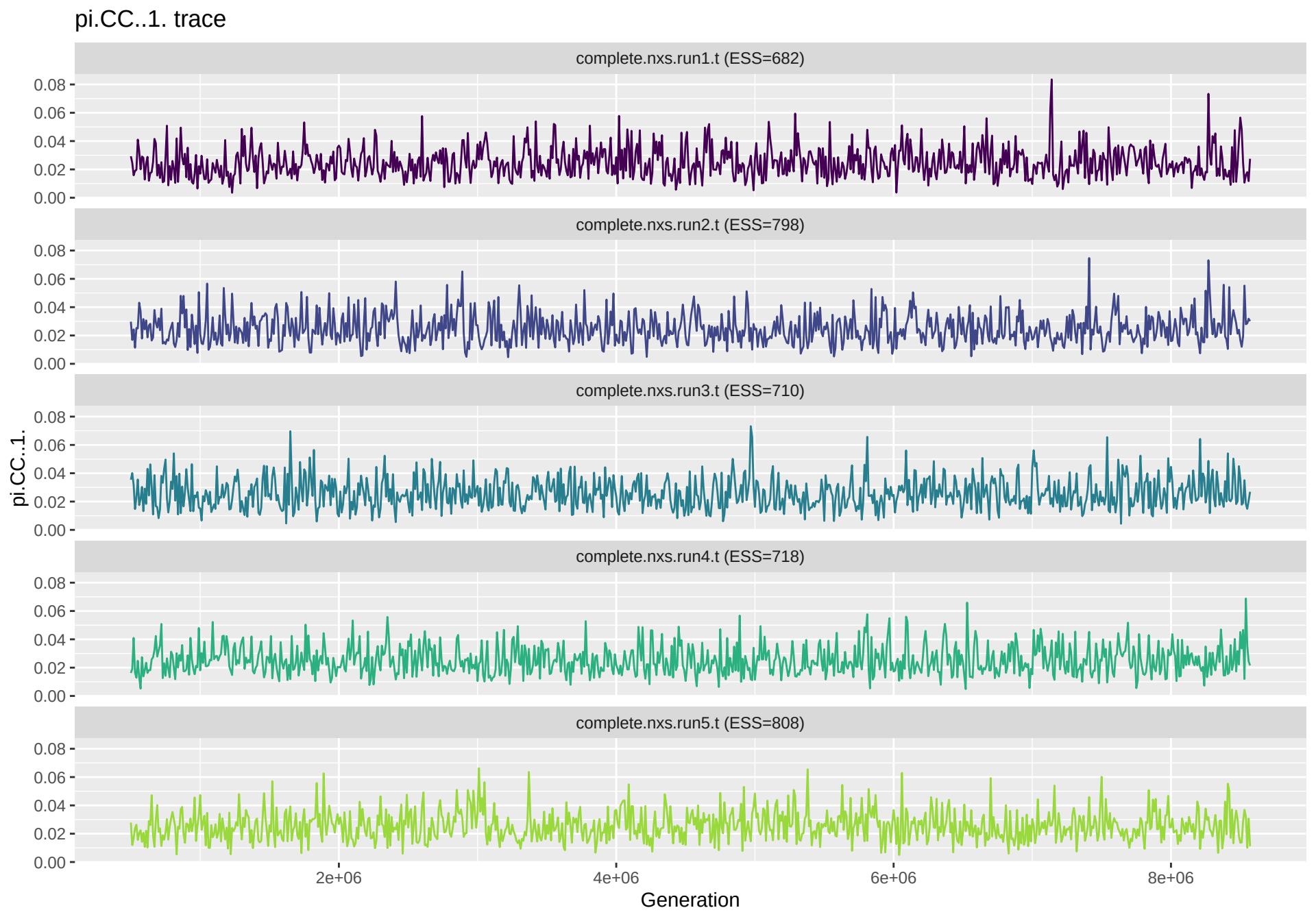

pi.BD..1. trace
complete.nxs.run1.t (ESS=684)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=627)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=960)
count
0
25
50
75
100
125
0.00
0.02
0.04
0.06
pi.BD..1.

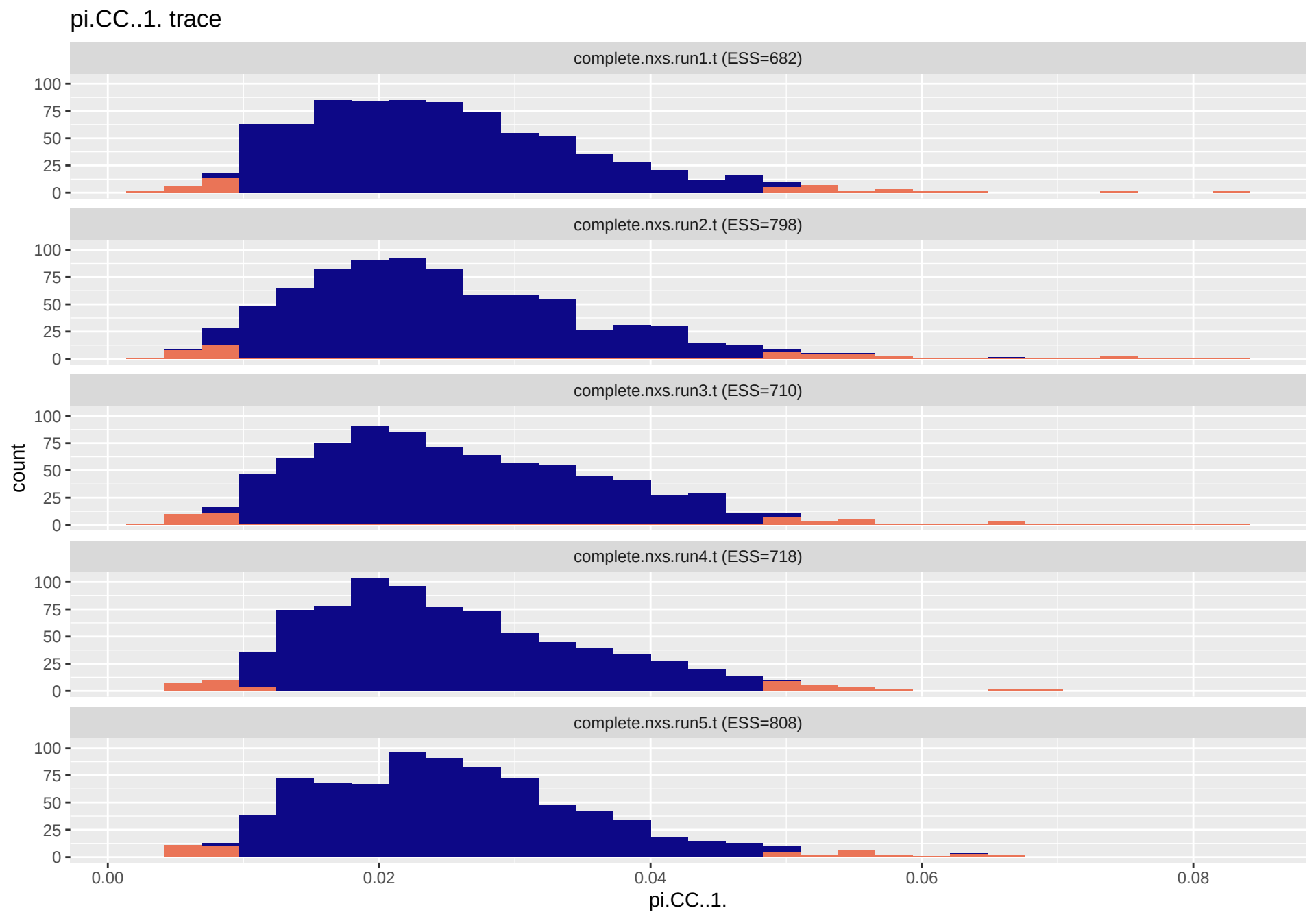

pi.CA..1. trace
complete.nxs.run1.t (ESS=727)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=608)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.100
0.075
0.050
0.025
pi.CA..1.
2e+06
4e+06
6e+06
8e+06
Generation

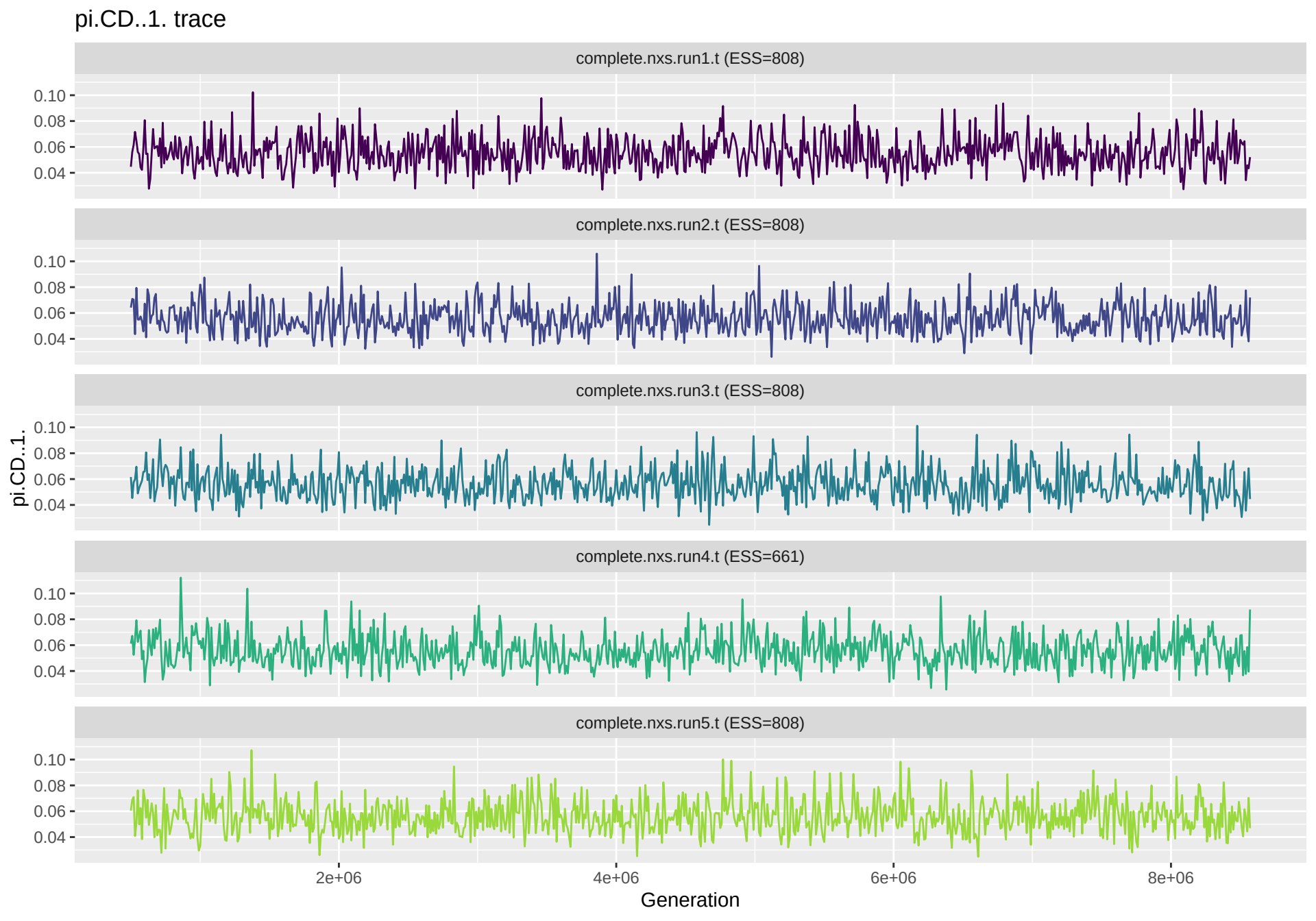

pi.CA..1. trace
complete.nxs.run1.t (ESS=727)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=608)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.025
0.050
0.075
0.100
pi.CA..1.

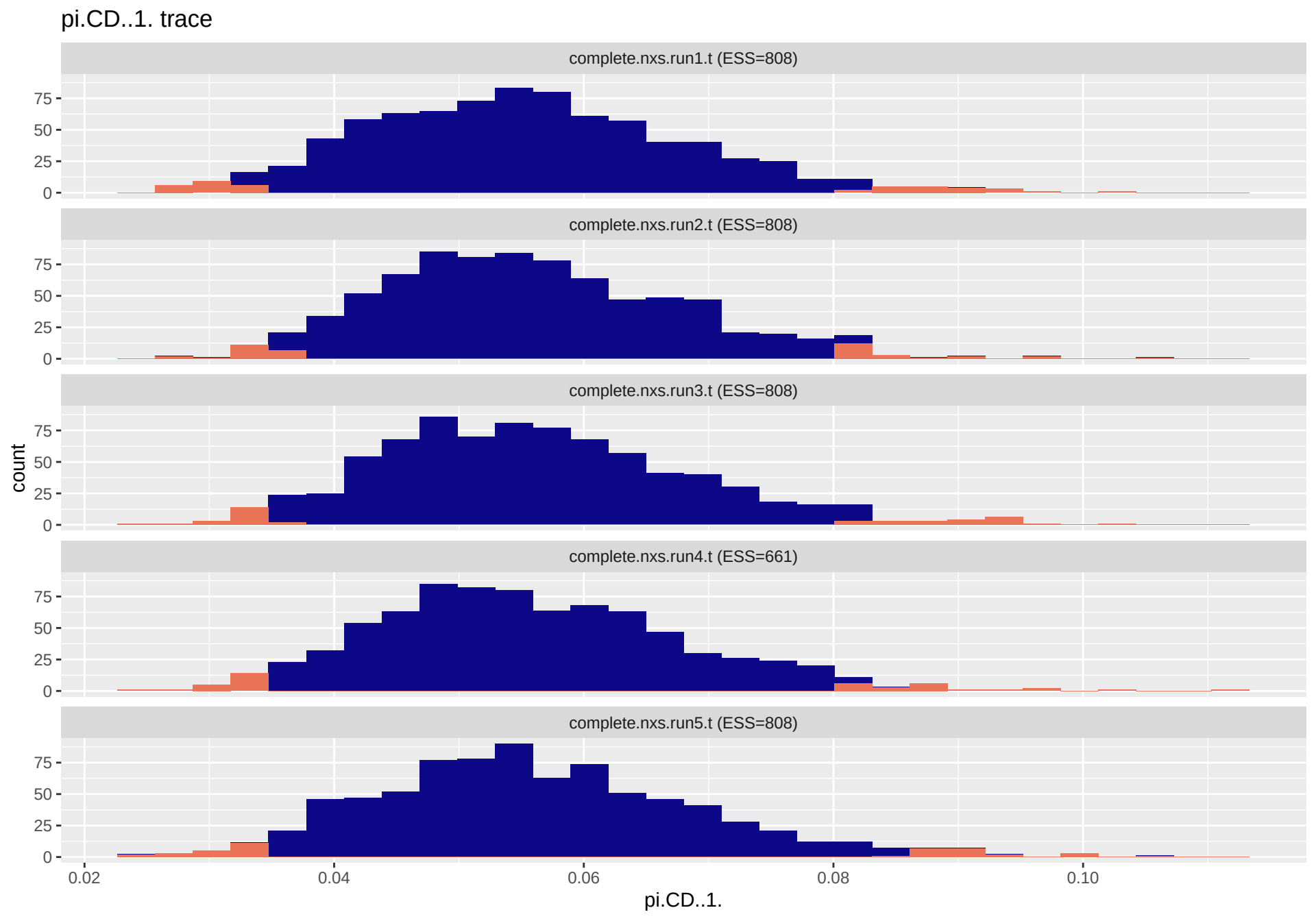

pi.CB..1. trace
complete.nxs.run1.t (ESS=635)
complete.nxs.run2.t (ESS=662)
complete.nxs.run3.t (ESS=683)
complete.nxs.run4.t (ESS=724)
complete.nxs.run5.t (ESS=531)
0.15
0.10
0.05
pi.CB..1.
2e+06
4e+06
6e+06
8e+06
Generation

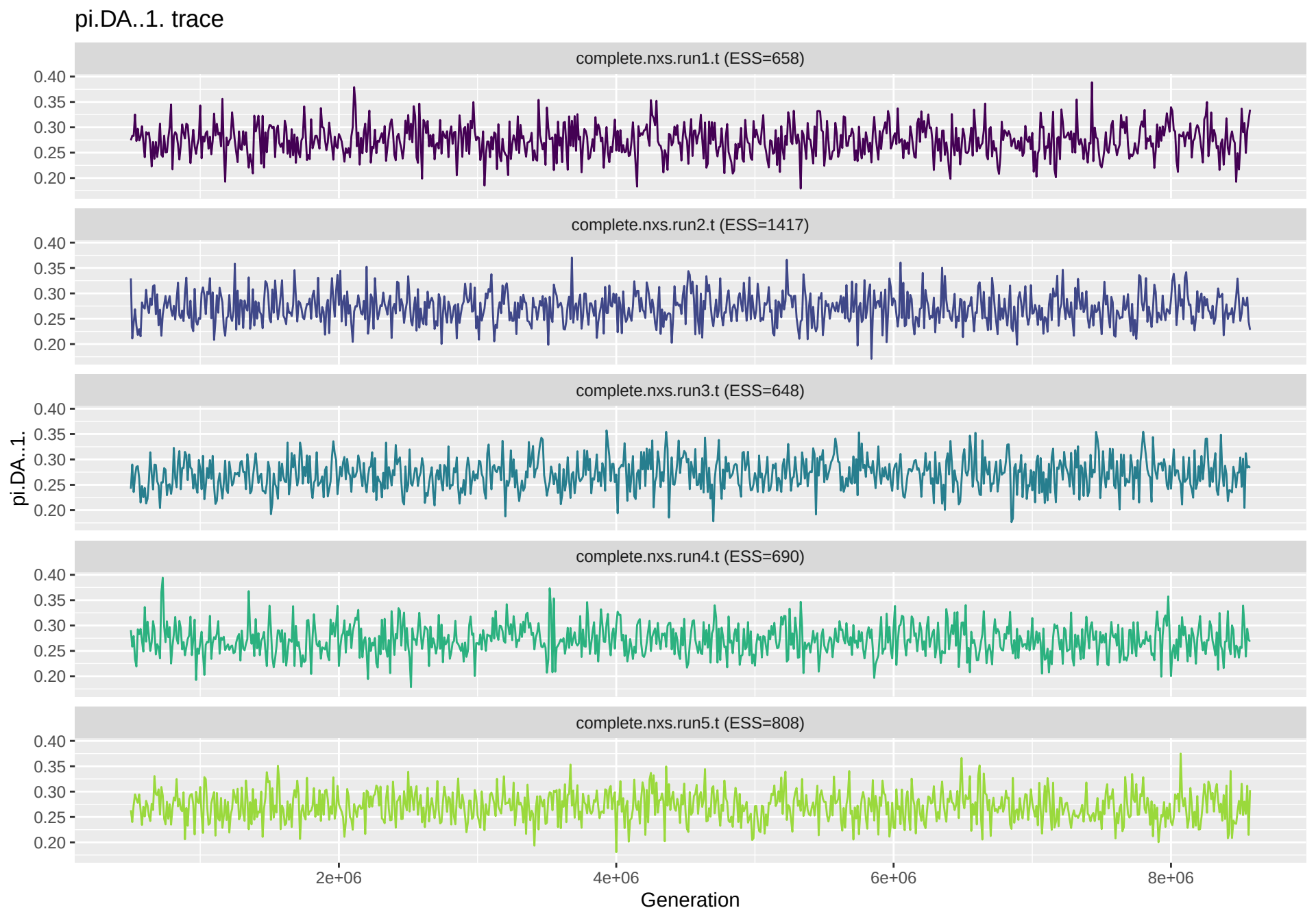

pi.CB..1. trace
complete.nxs.run1.t (ESS=635)
complete.nxs.run2.t (ESS=662)
complete.nxs.run3.t (ESS=683)
complete.nxs.run4.t (ESS=724)
complete.nxs.run5.t (ESS=531)
count
0
25
50
75
0.05
0.10
0.15
pi.CB..1.

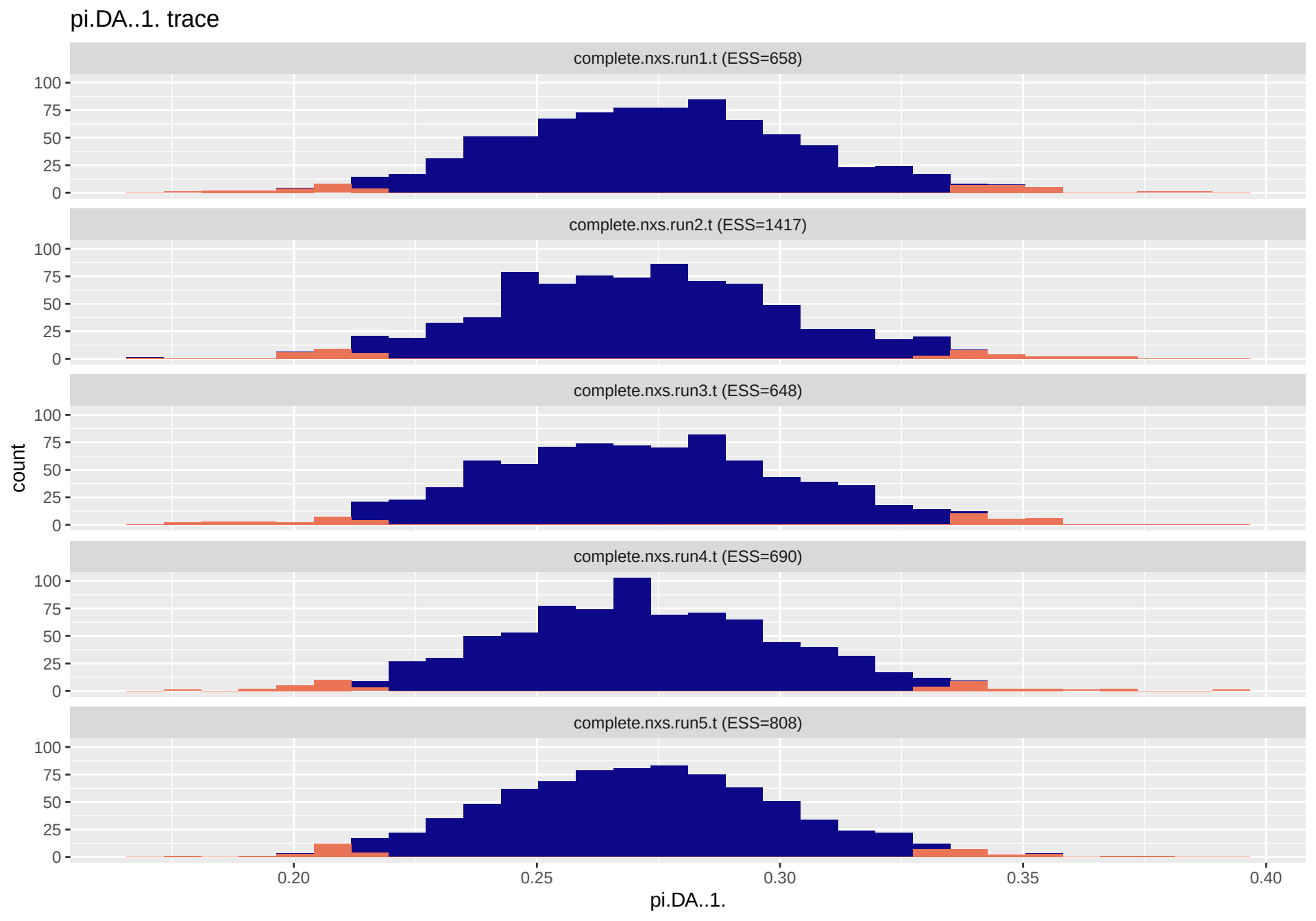

pi.CC..1. trace
complete.nxs.run1.t (ESS=682)
complete.nxs.run2.t (ESS=798)
complete.nxs.run3.t (ESS=710)
complete.nxs.run4.t (ESS=718)
complete.nxs.run5.t (ESS=808)
pi.CC..1.
0.00
0.02
0.04
0.06
0.08
2e+06
4e+06
6e+06
8e+06
Generation


pi.CC..1. trace
complete.nxs.run1.t (ESS=682)
complete.nxs.run2.t (ESS=798)
complete.nxs.run3.t (ESS=710)
complete.nxs.run4.t (ESS=718)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.00
0.02
0.04
0.06
0.08
pi.CC..1.

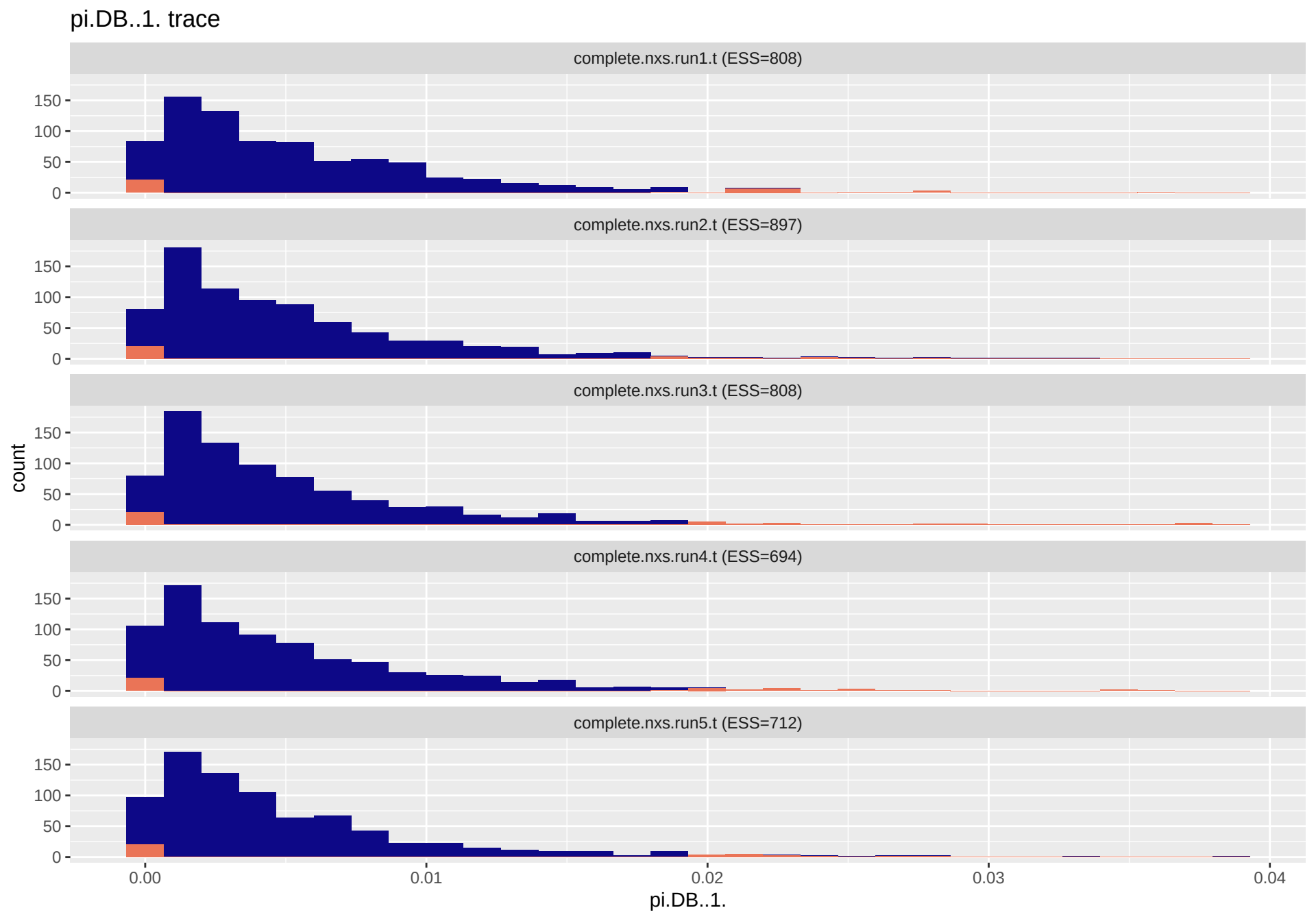

pi.CD..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=661)
complete.nxs.run5.t (ESS=808)
pi.CD..1.
0.10
0.08
0.06
0.04
2e+06
4e+06
6e+06
8e+06
Generation

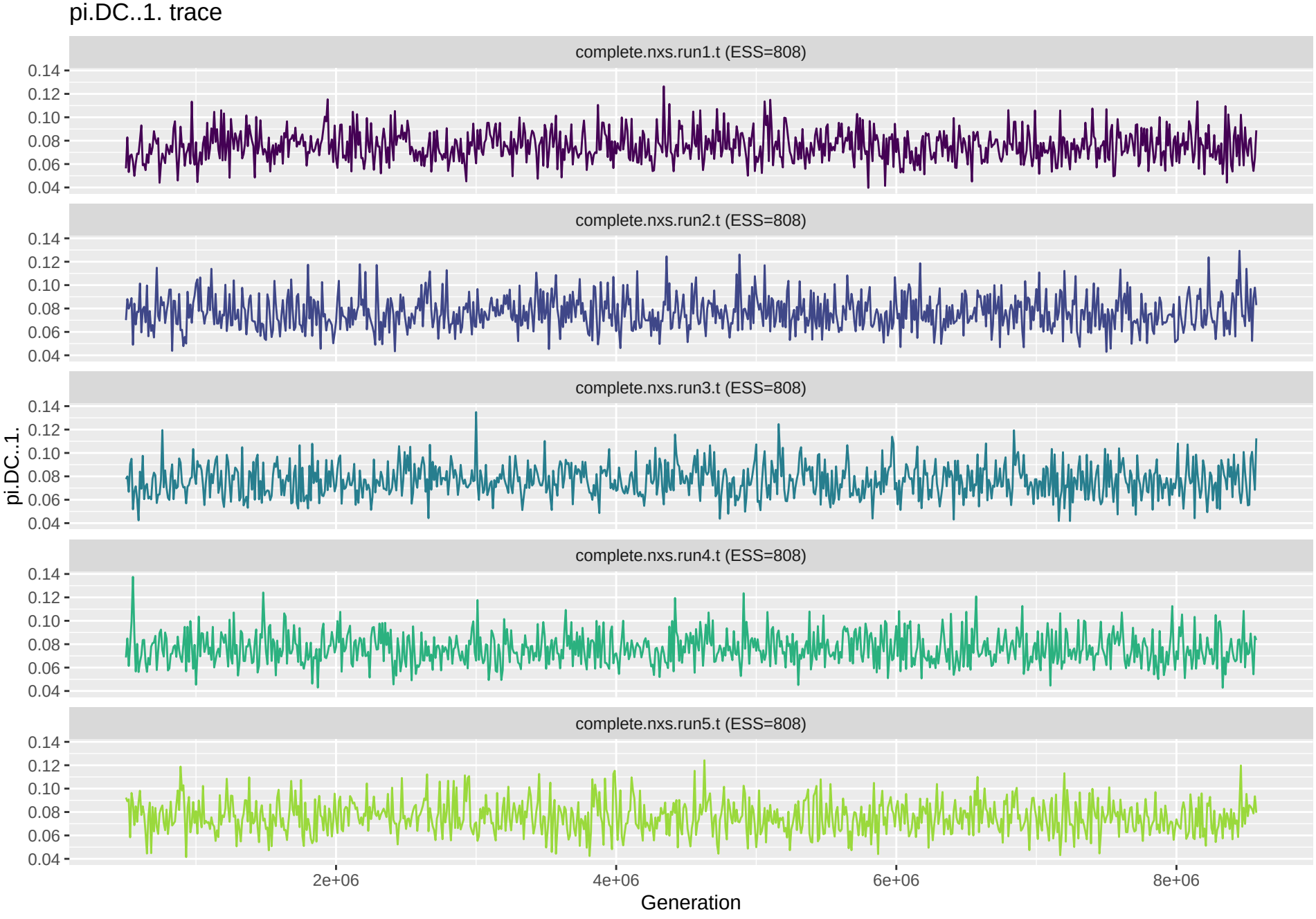

pi.CD..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=661)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.02
0.04
0.06
0.08
0.10
pi.CD..1.

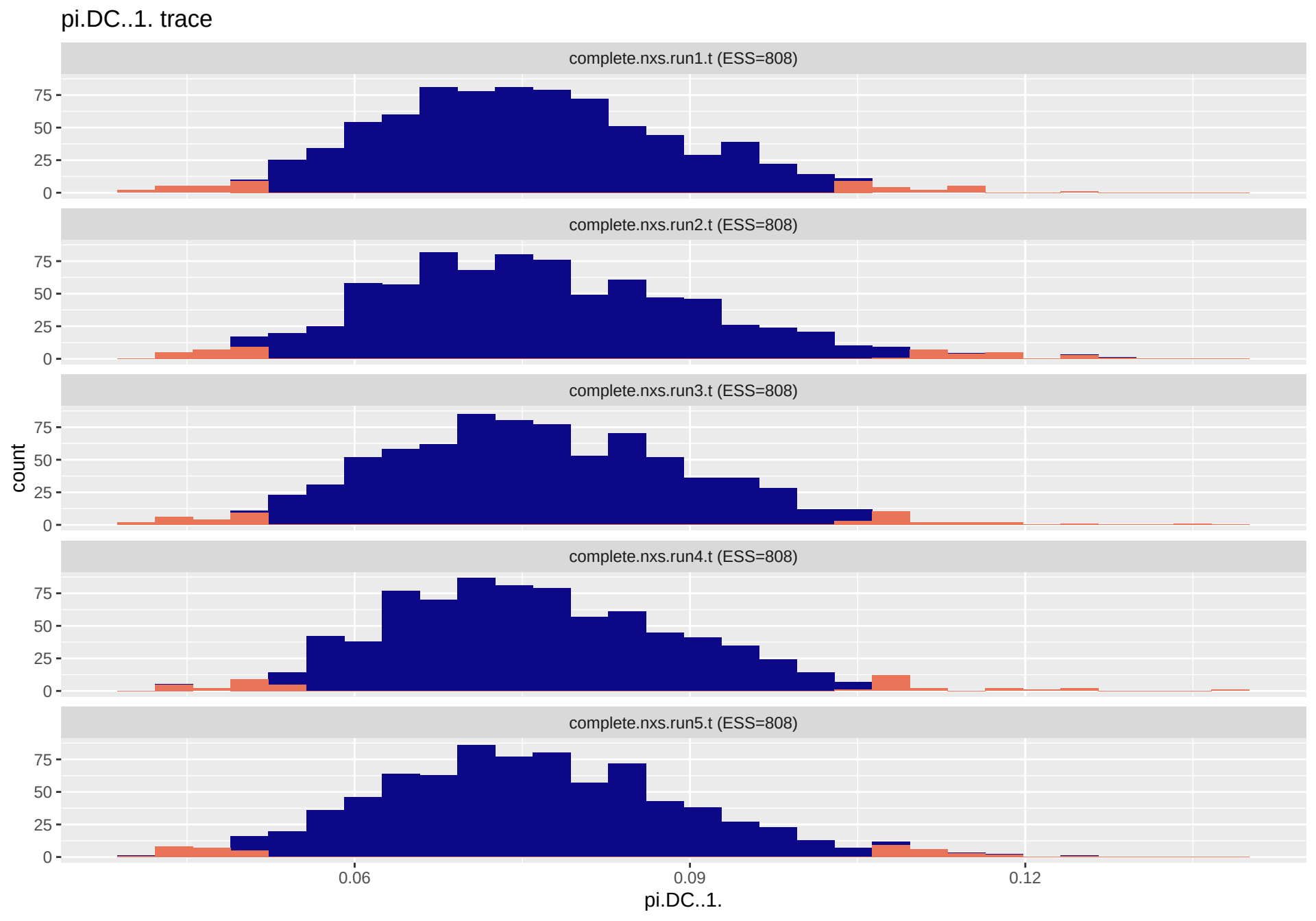

pi.DA..1. trace
complete.nxs.run1.t (ESS=658)
complete.nxs.run2.t (ESS=1417)
complete.nxs.run3.t (ESS=648)
complete.nxs.run4.t (ESS=690)
complete.nxs.run5.t (ESS=808)
pi.DA..1.
0.40
0.35
0.30
0.25
0.20
2e+06
4e+06
6e+06
8e+06
Generation

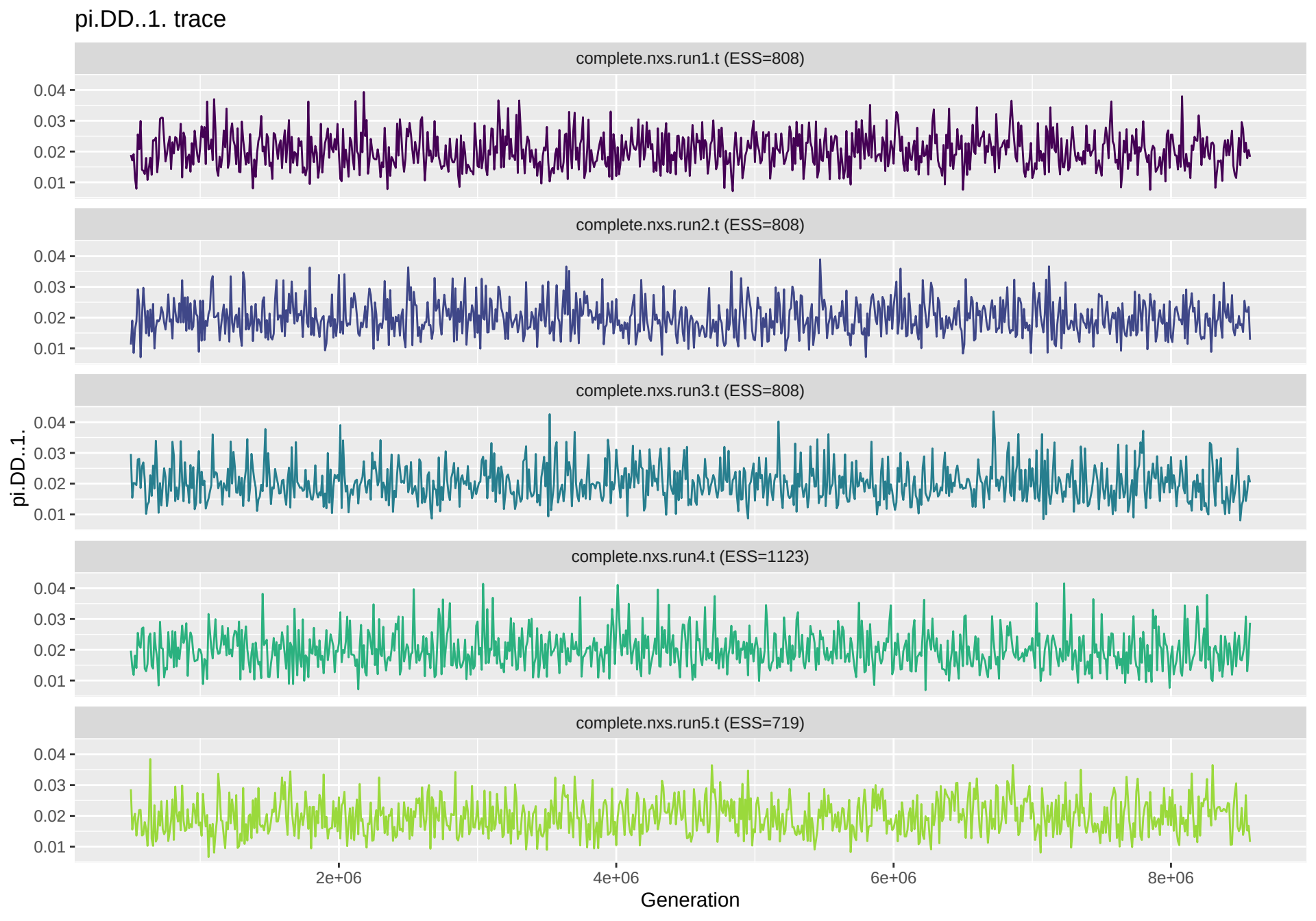

pi.DA..1. trace
complete.nxs.run1.t (ESS=658)
complete.nxs.run2.t (ESS=1417)
complete.nxs.run3.t (ESS=648)
complete.nxs.run4.t (ESS=690)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.20
0.25
0.30
0.35
0.40
pi.DA..1.

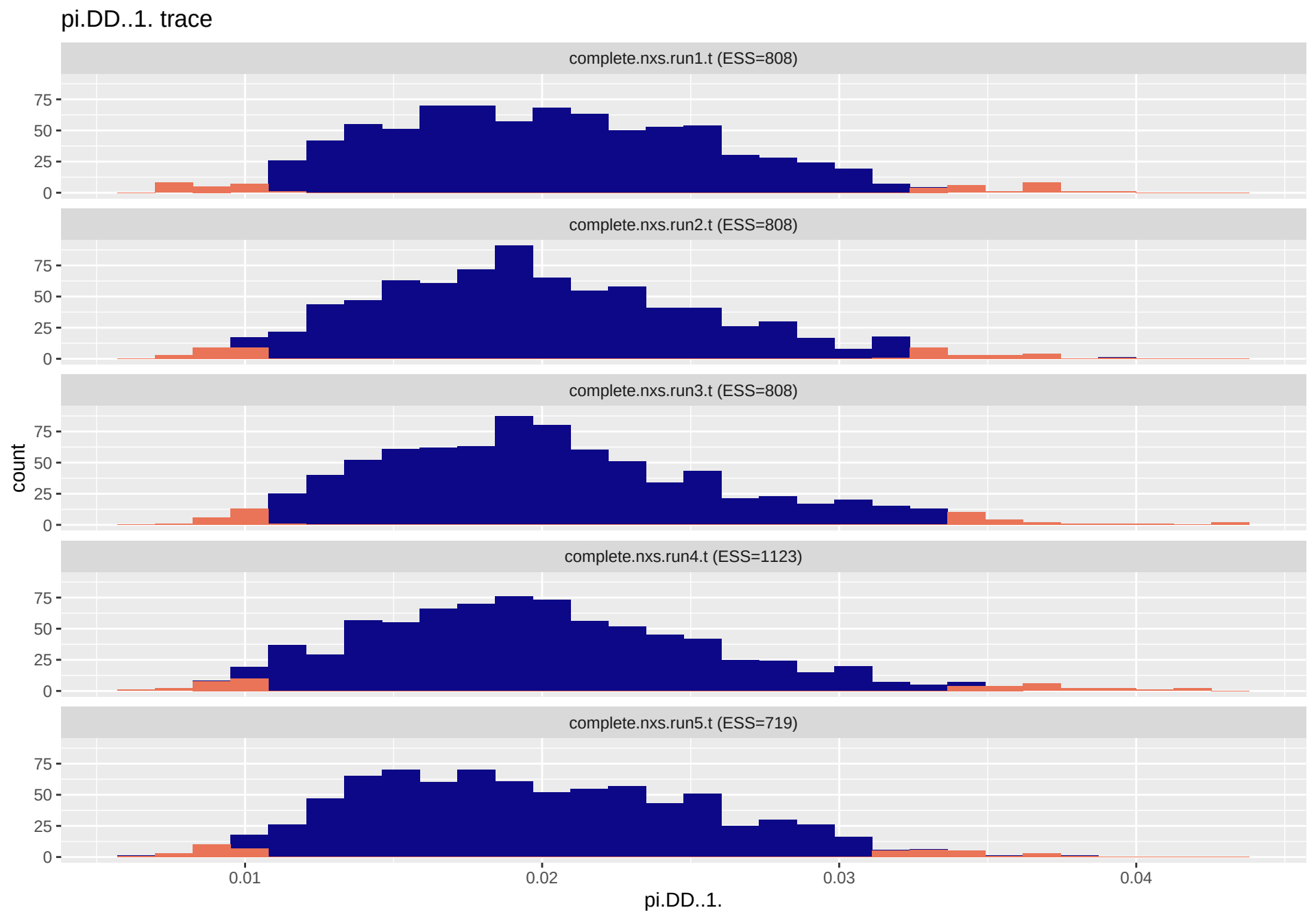
pi.DB..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=897)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=694)
complete.nxs.run5.t (ESS=712)
pi.DB..1.
0.04
0.03
0.02
0.01
0.00
2e+06
4e+06
6e+06
8e+06
Generation

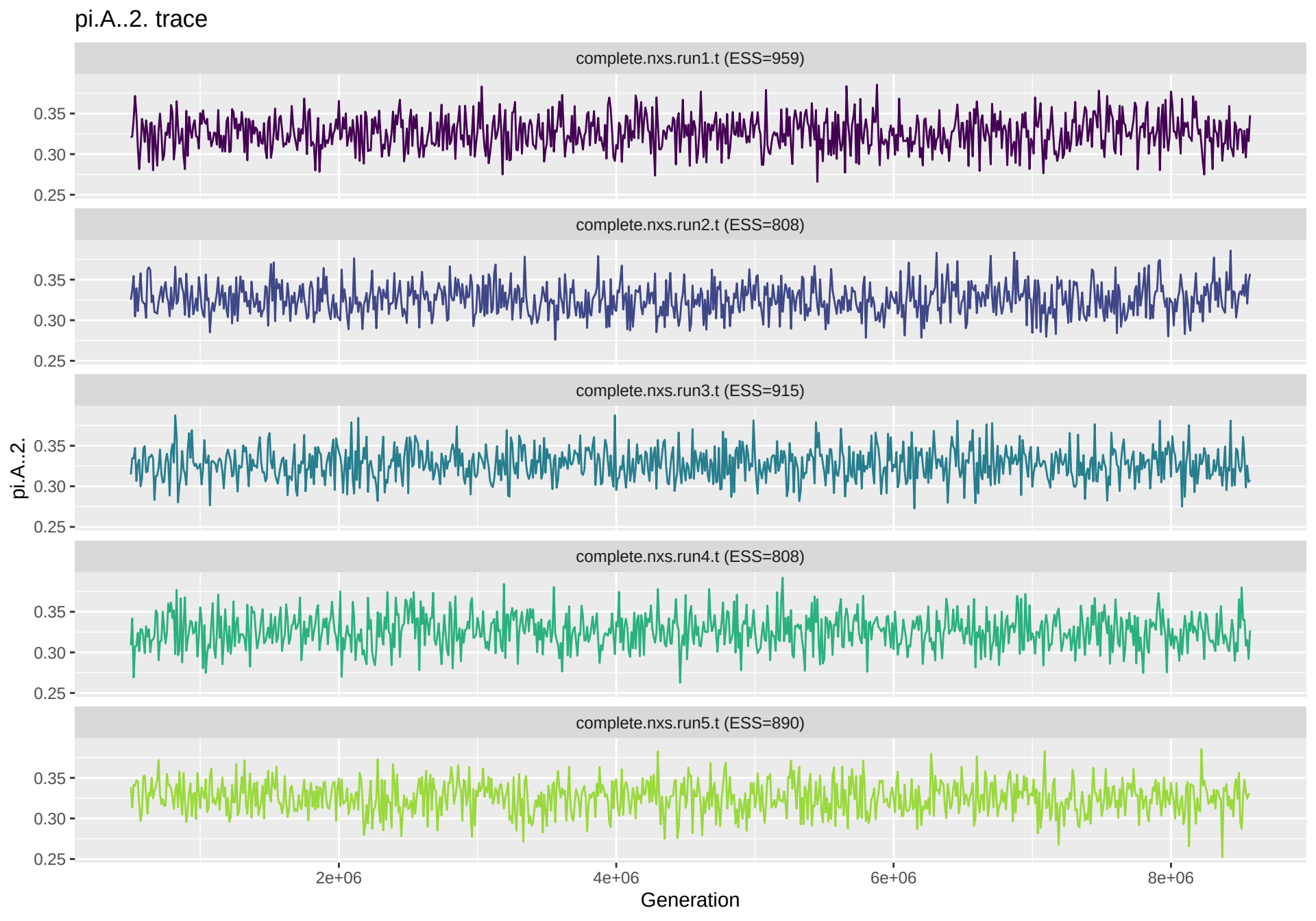

pi.DB..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=897)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=694)
complete.nxs.run5.t (ESS=712)
count
0
50
100
150
0.00
0.01
0.02
0.03
0.04
pi.DB..1.

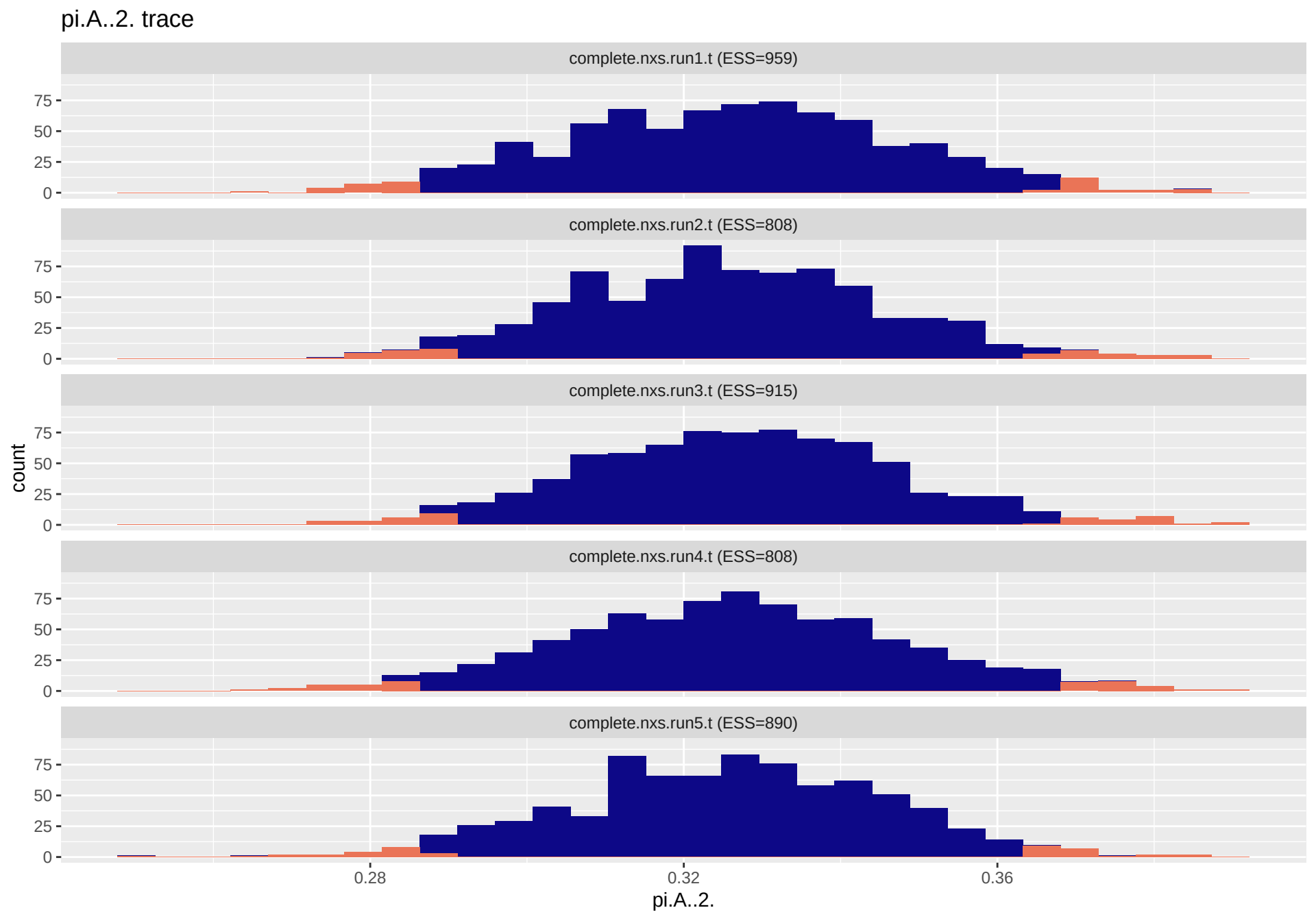

pi.DC..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.DC..1.
0.14
0.12
0.10
0.08
0.06
0.04
2e+06
4e+06
6e+06
8e+06
Generation

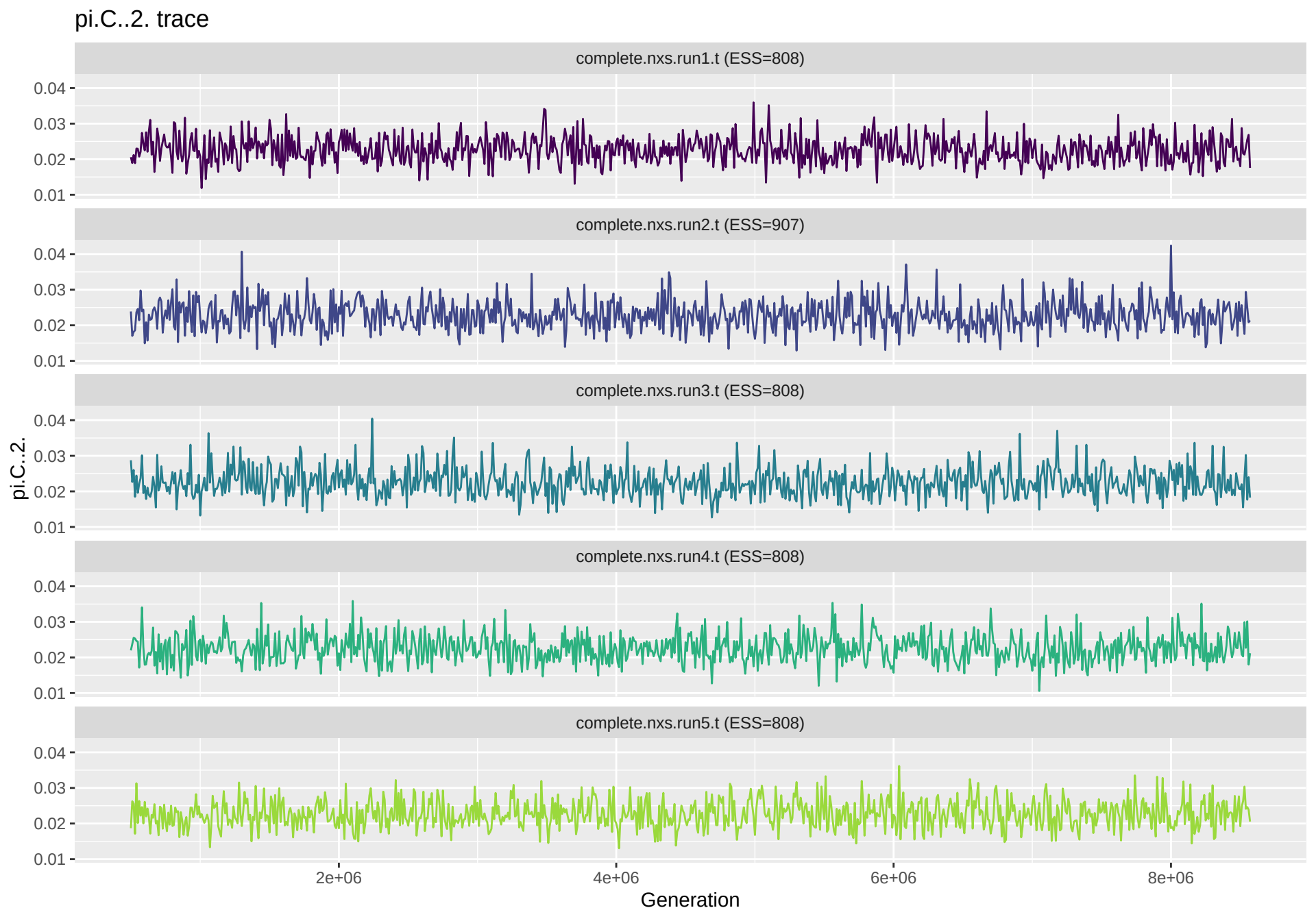

pi.DC..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
75
50
25
0
0.06
0.09
0.12
pi.DC..1.

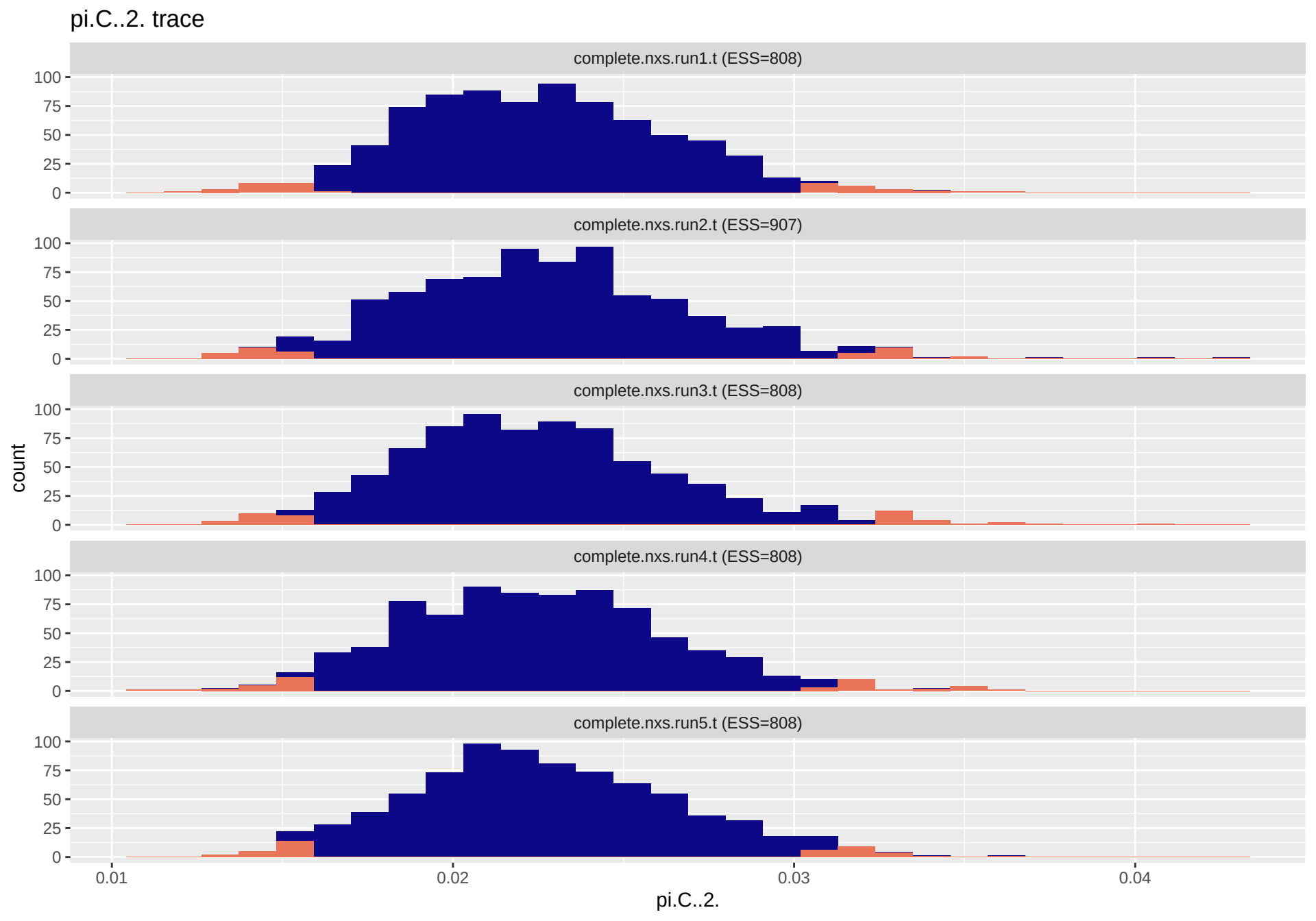

pi.DD..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=1123)
complete.nxs.run5.t (ESS=719)
pi.DD..1.
0.04
0.03
0.02
0.01
2e+06
4e+06
6e+06
8e+06
Generation

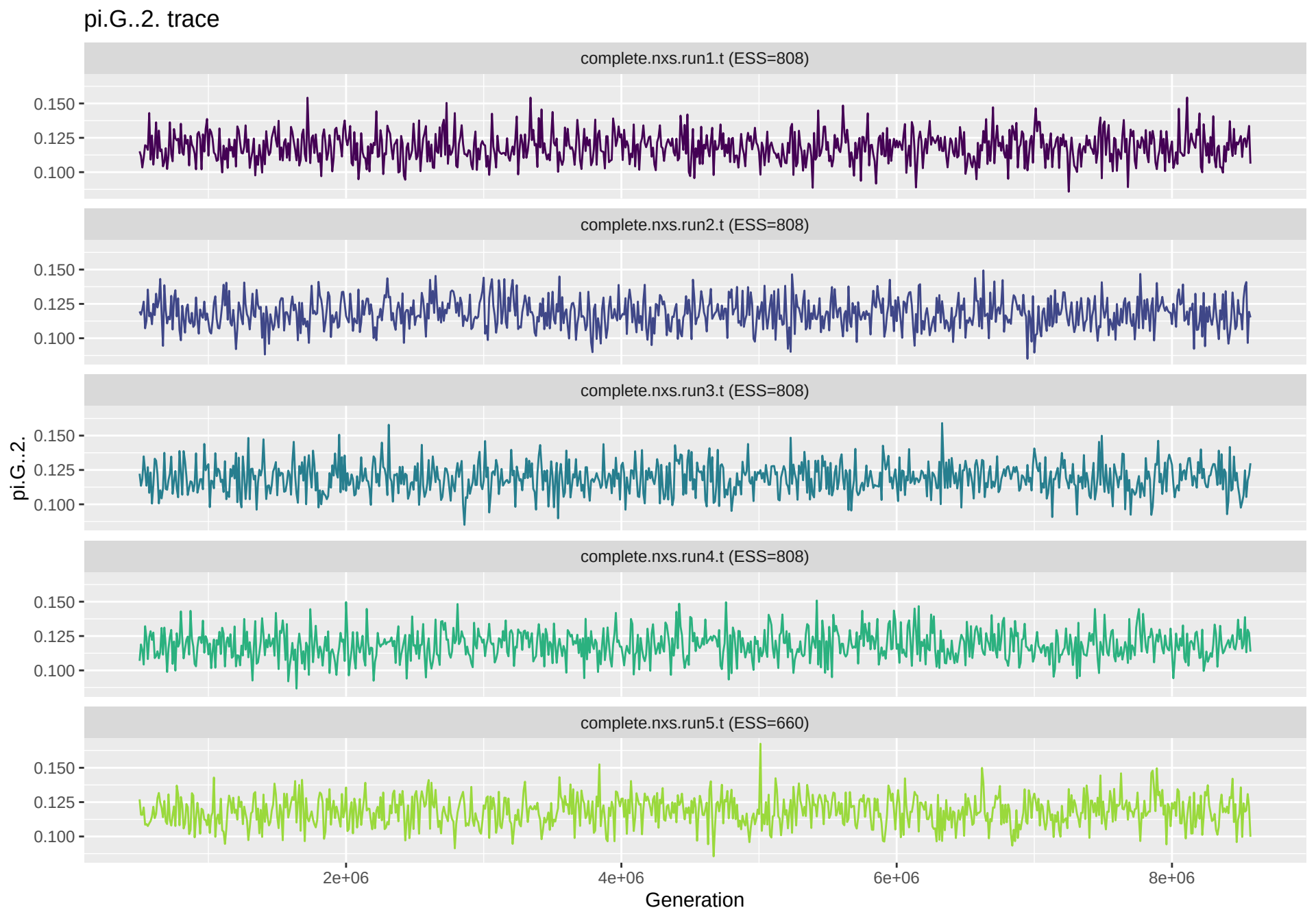

pi.DD..1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=1123)
complete.nxs.run5.t (ESS=719)
count
75
50
25
0
0.01
0.02
0.03
0.04
pi.DD..1.

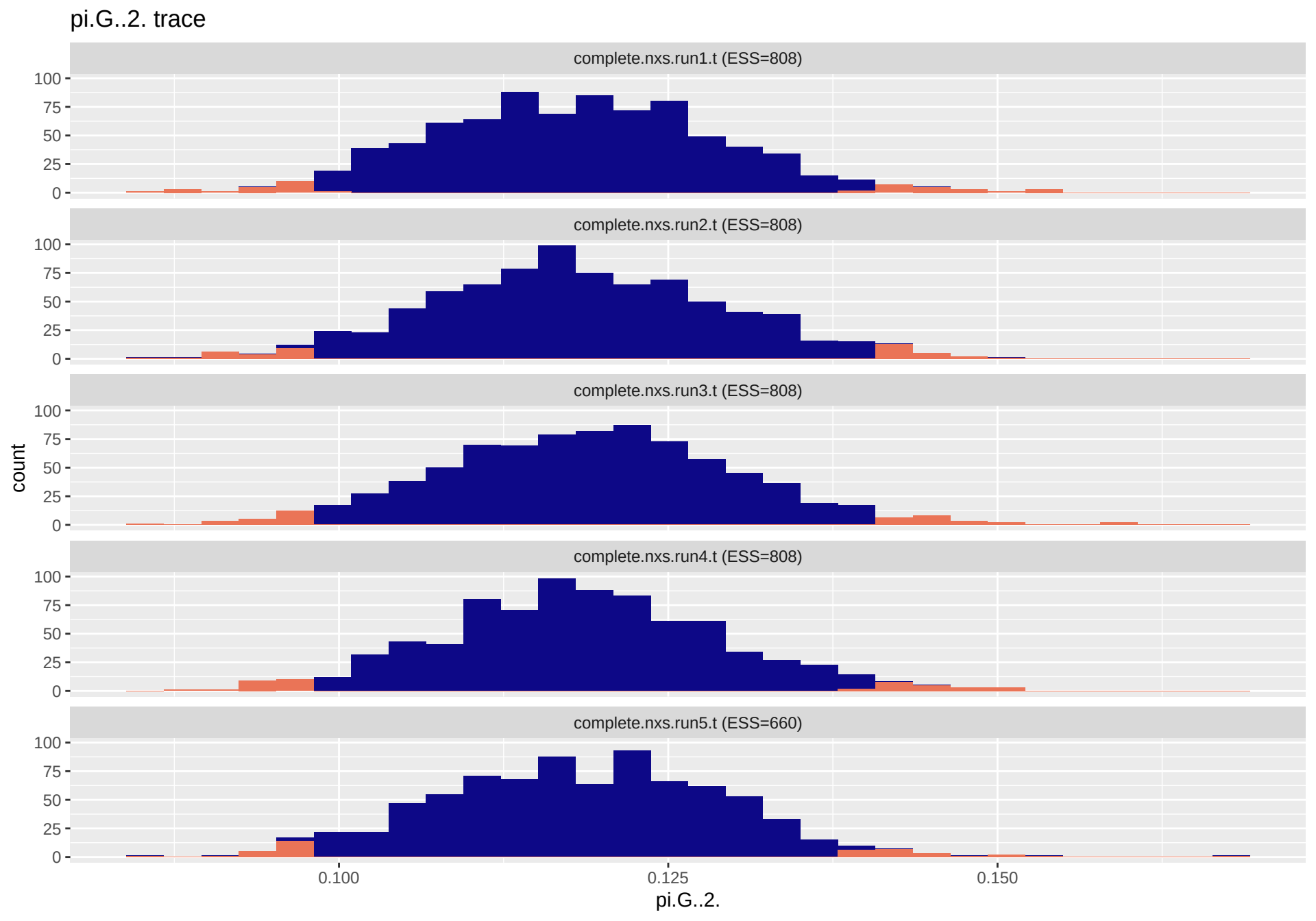

pi.A..2. trace
complete.nxs.run1.t (ESS=959)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=915)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=890)
pi.A..2.
0.35
0.30
0.25
2e+06
4e+06
6e+06
8e+06
Generation

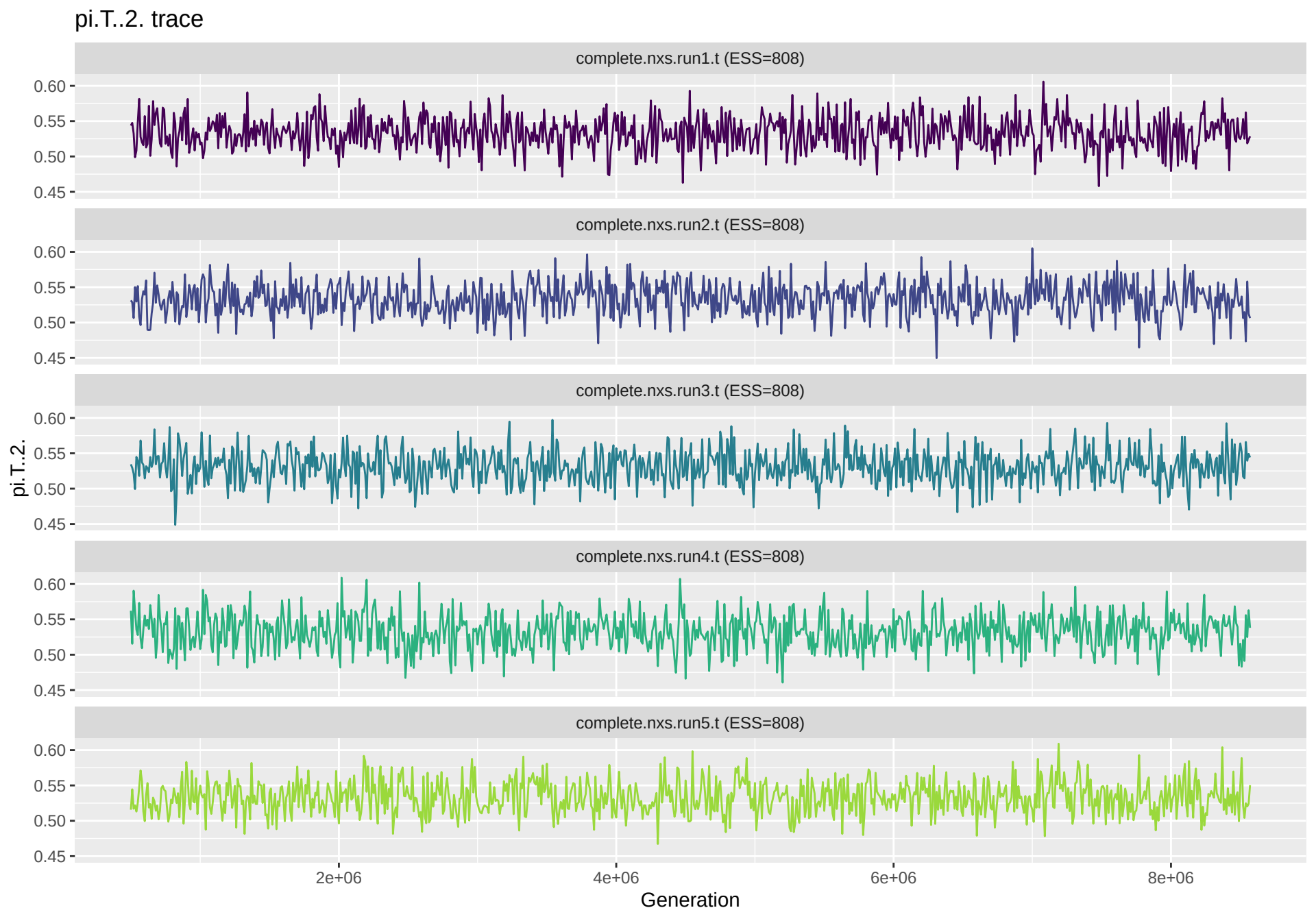

pi.A..2. trace
complete.nxs.run1.t (ESS=959)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=915)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=890)
count
0
25
50
75
0.28
0.32
0.36
pi.A..2.

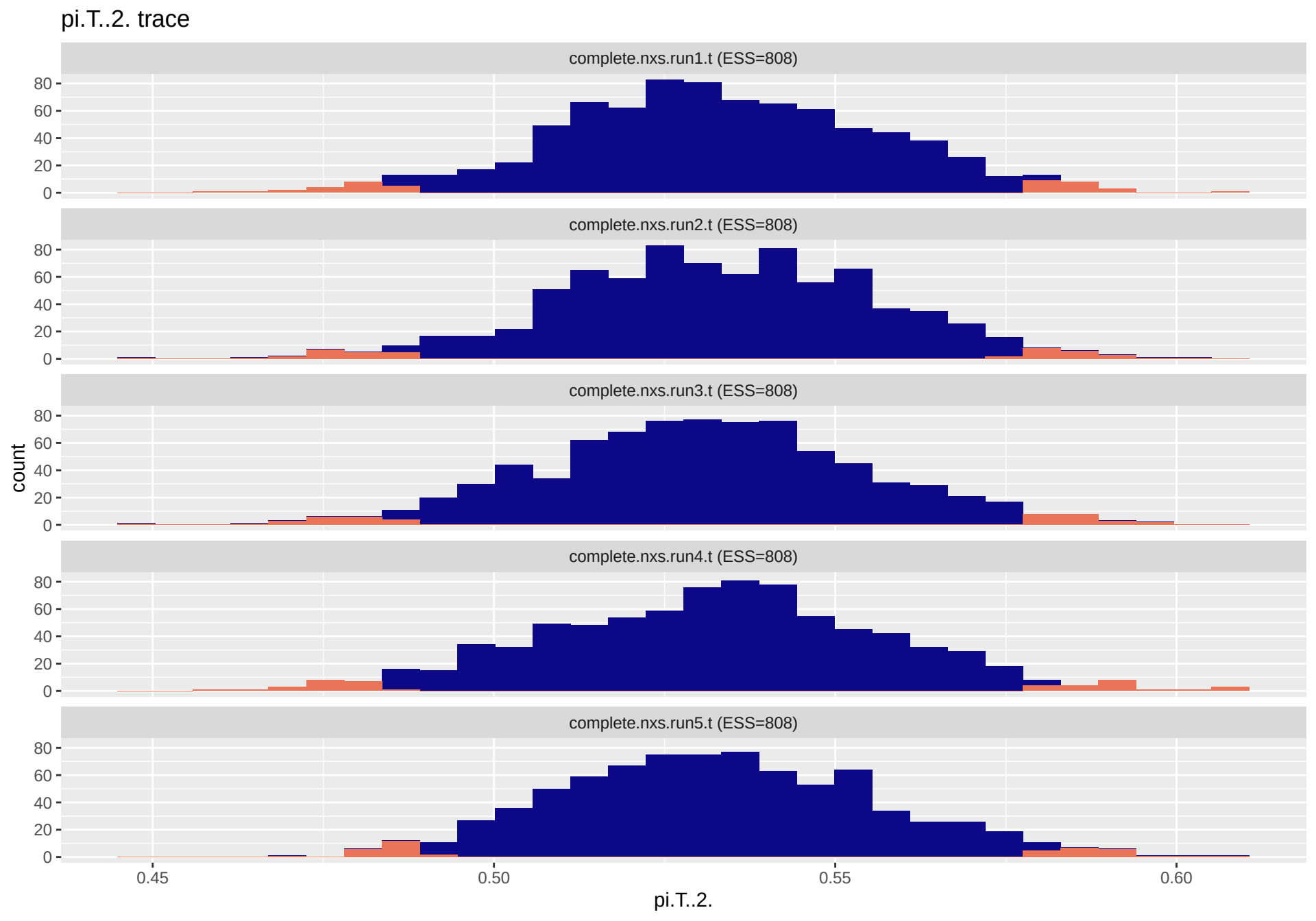

pi.C..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=907)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.C..2.
0.04
0.03
0.02
0.01
2e+06
4e+06
6e+06
8e+06
Generation

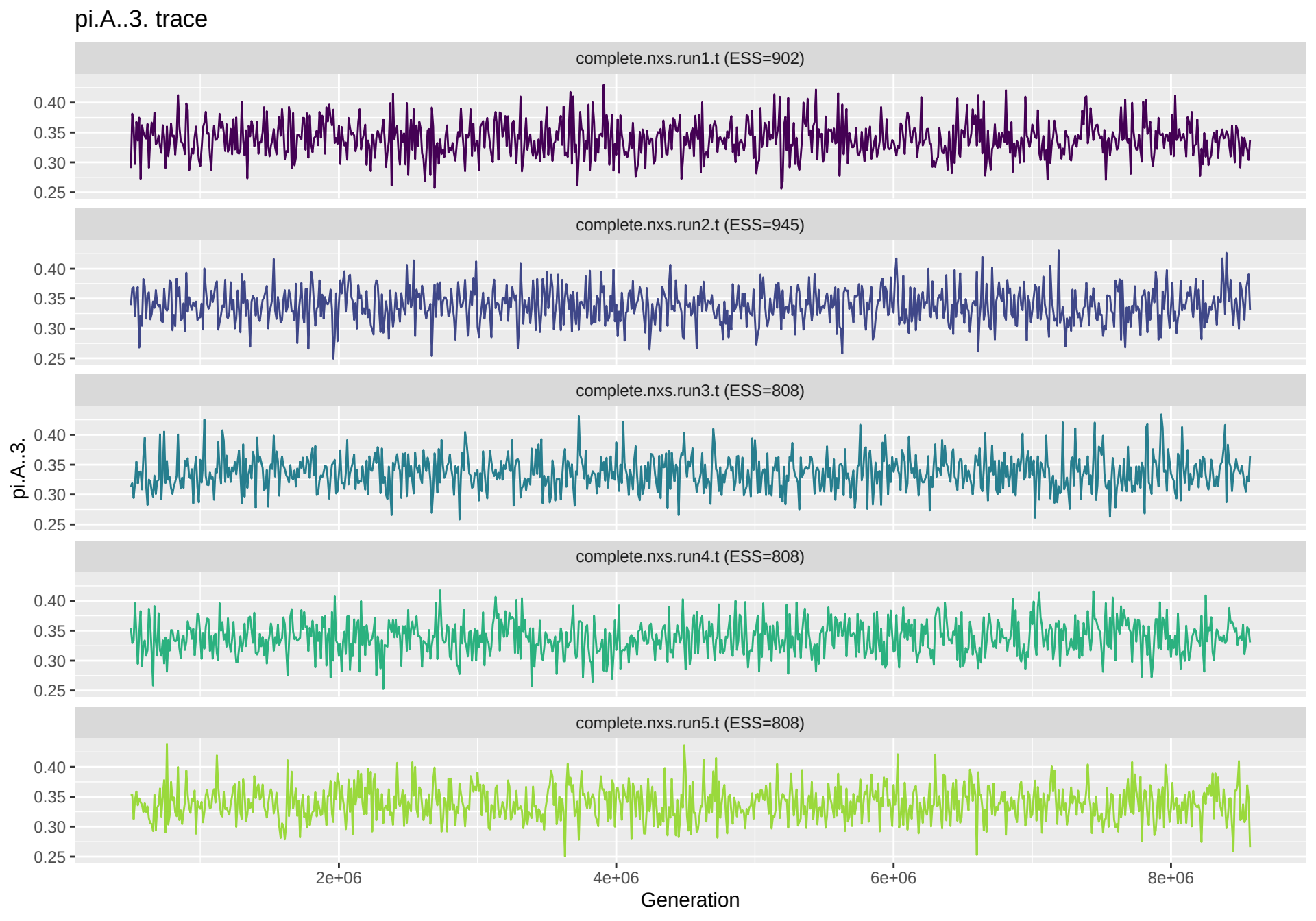

pi.C..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=907)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.01
0.02
0.03
0.04
pi.C..2.

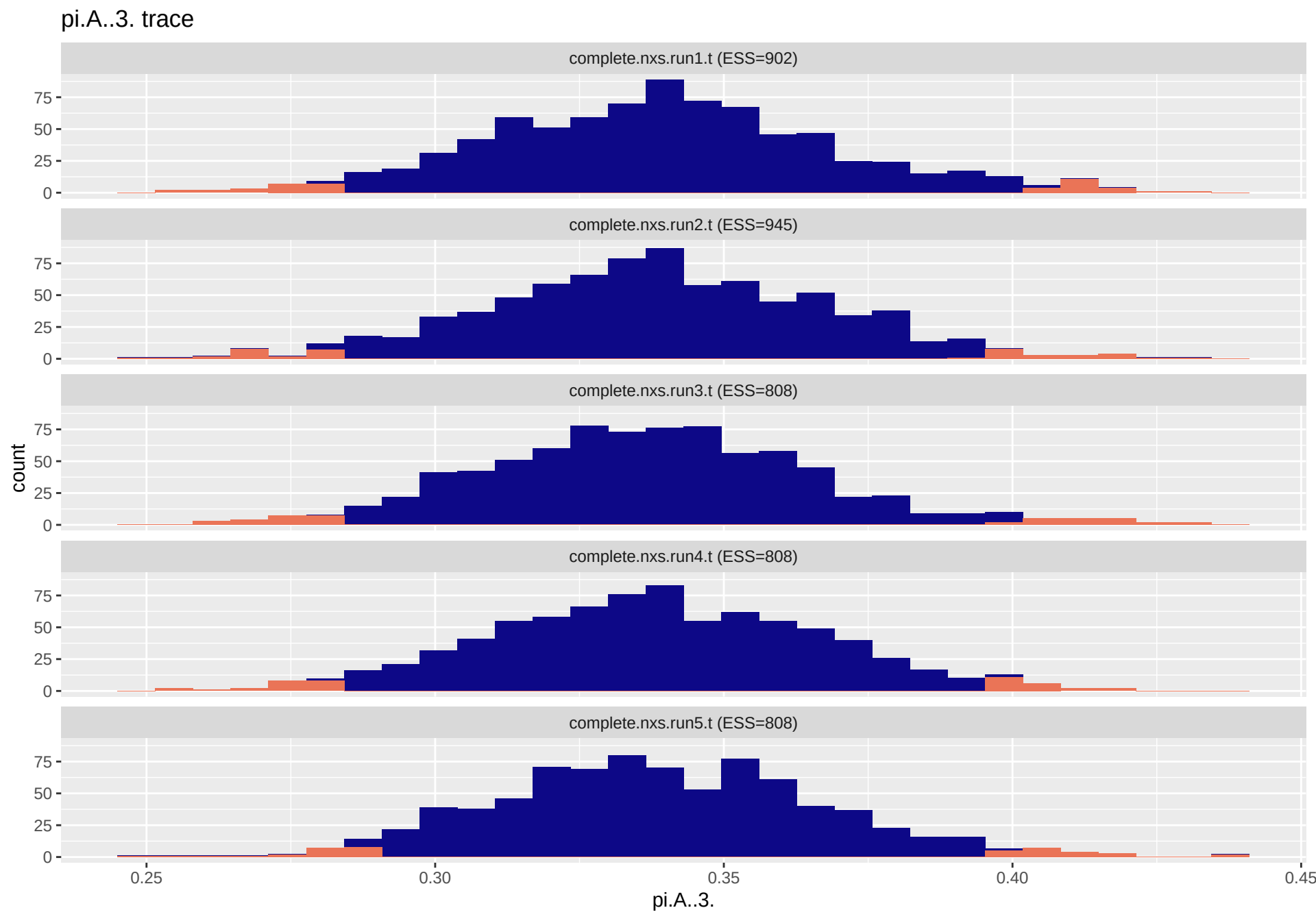

pi.G..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=660)
pi.G..2.
0.150
0.125
0.100
2e+06
4e+06
6e+06
8e+06
Generation

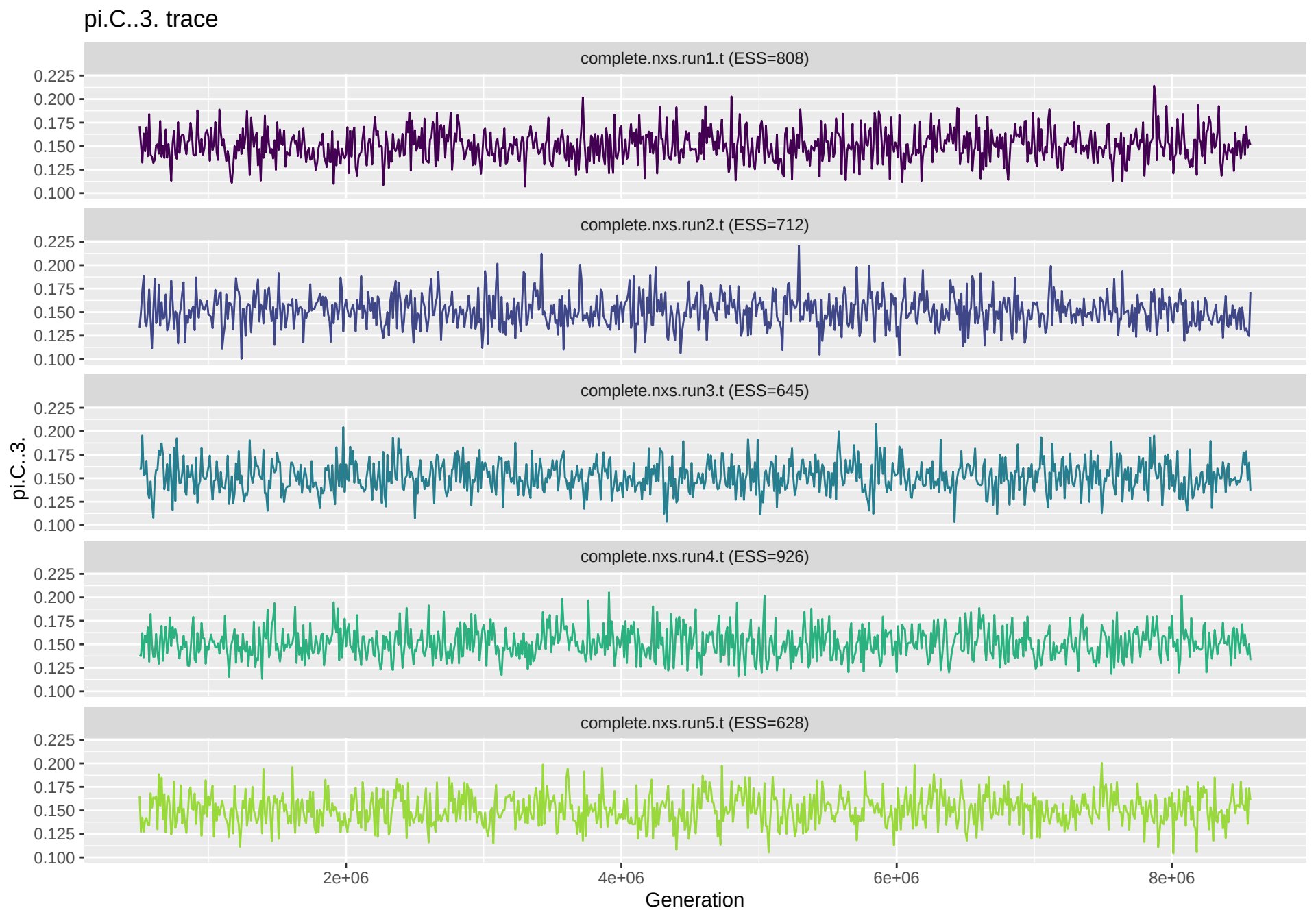

pi.G..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=660)
count
0
25
50
75
100
0.100
0.125
0.150
pi.G..2.

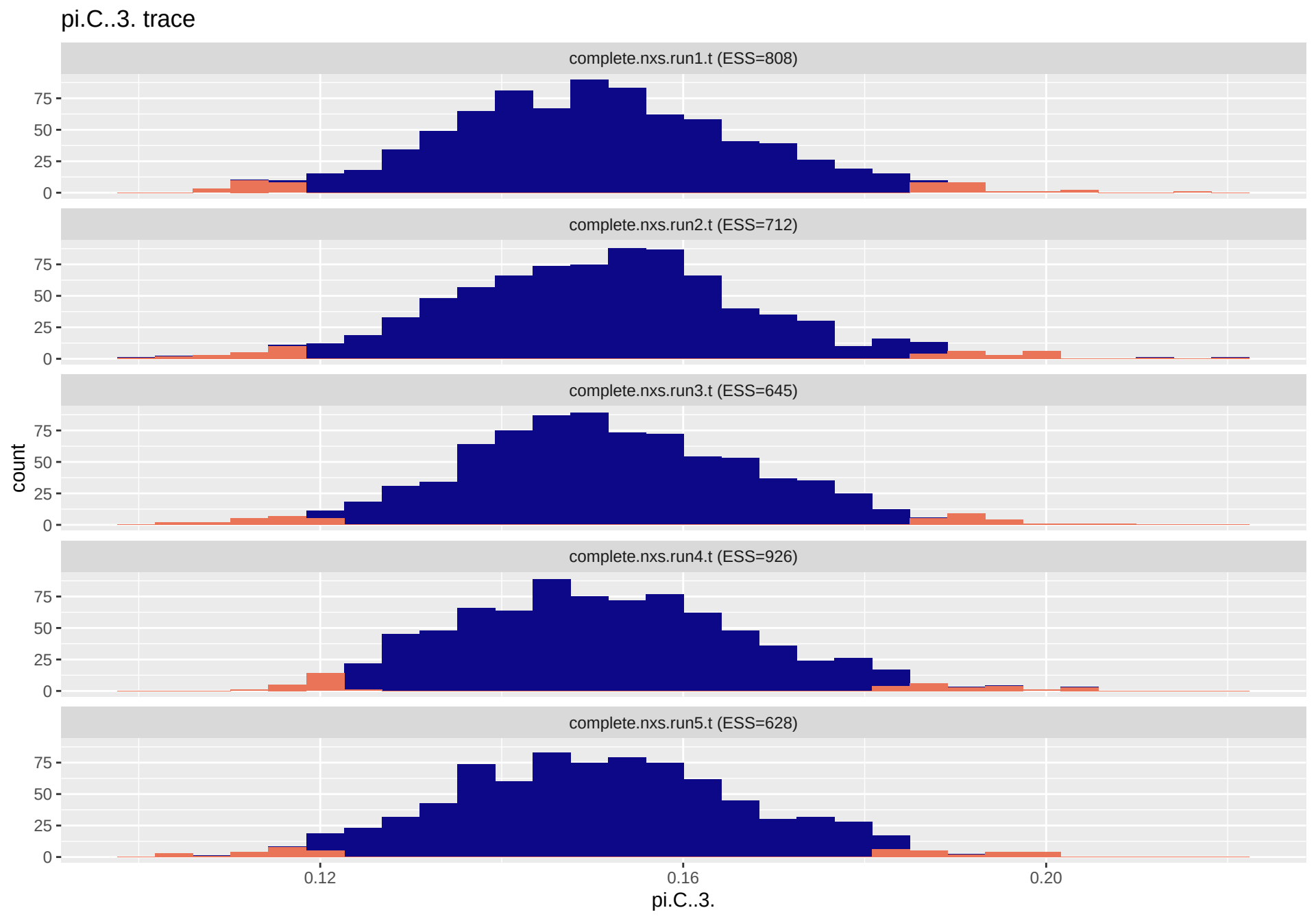

pi.T..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.T..2.
0.60
0.55
0.50
0.45
2e+06
4e+06
6e+06
8e+06
Generation

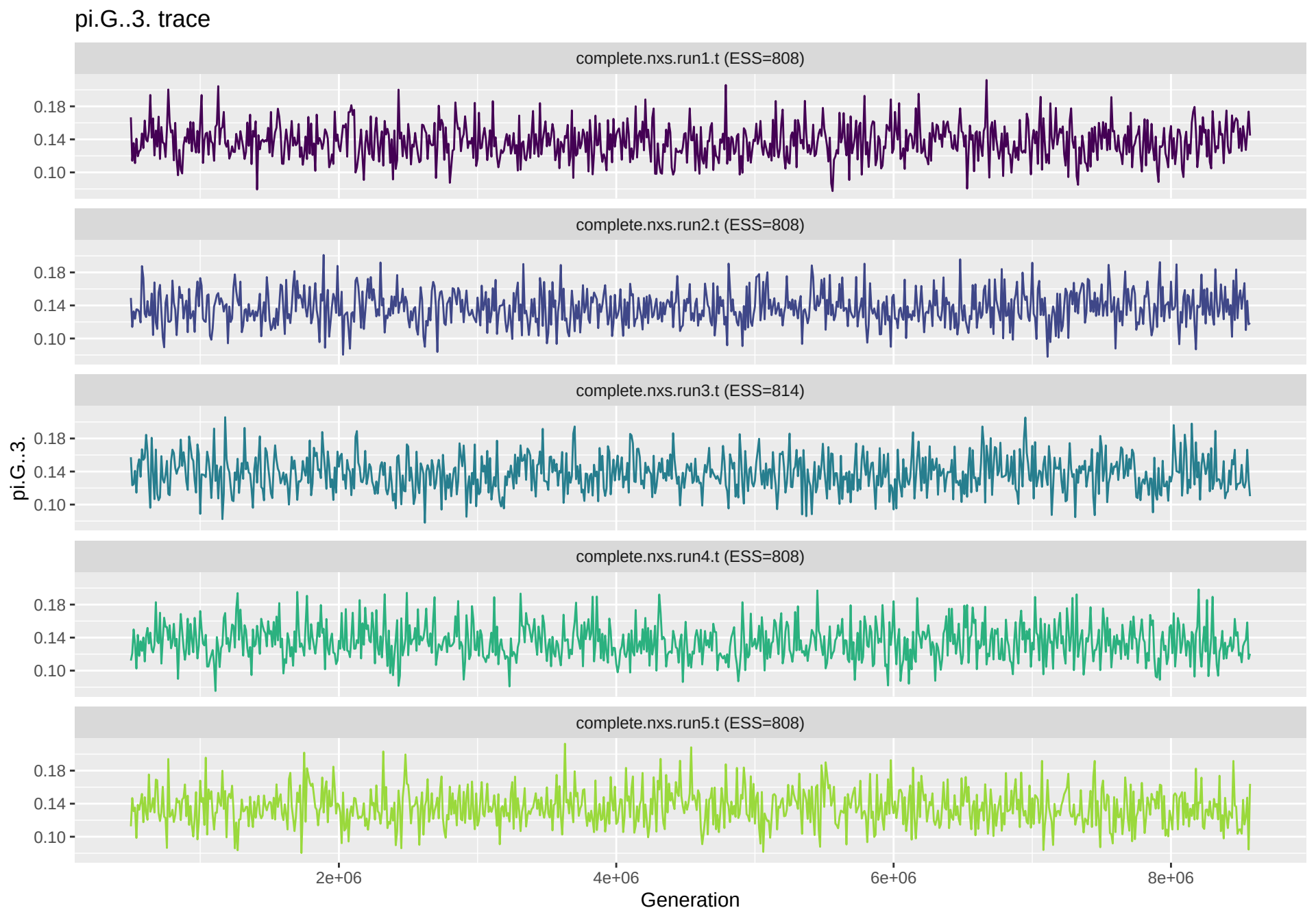

pi.T..2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
20
40
60
80
0.45
0.50
0.55
0.60
pi.T..2.

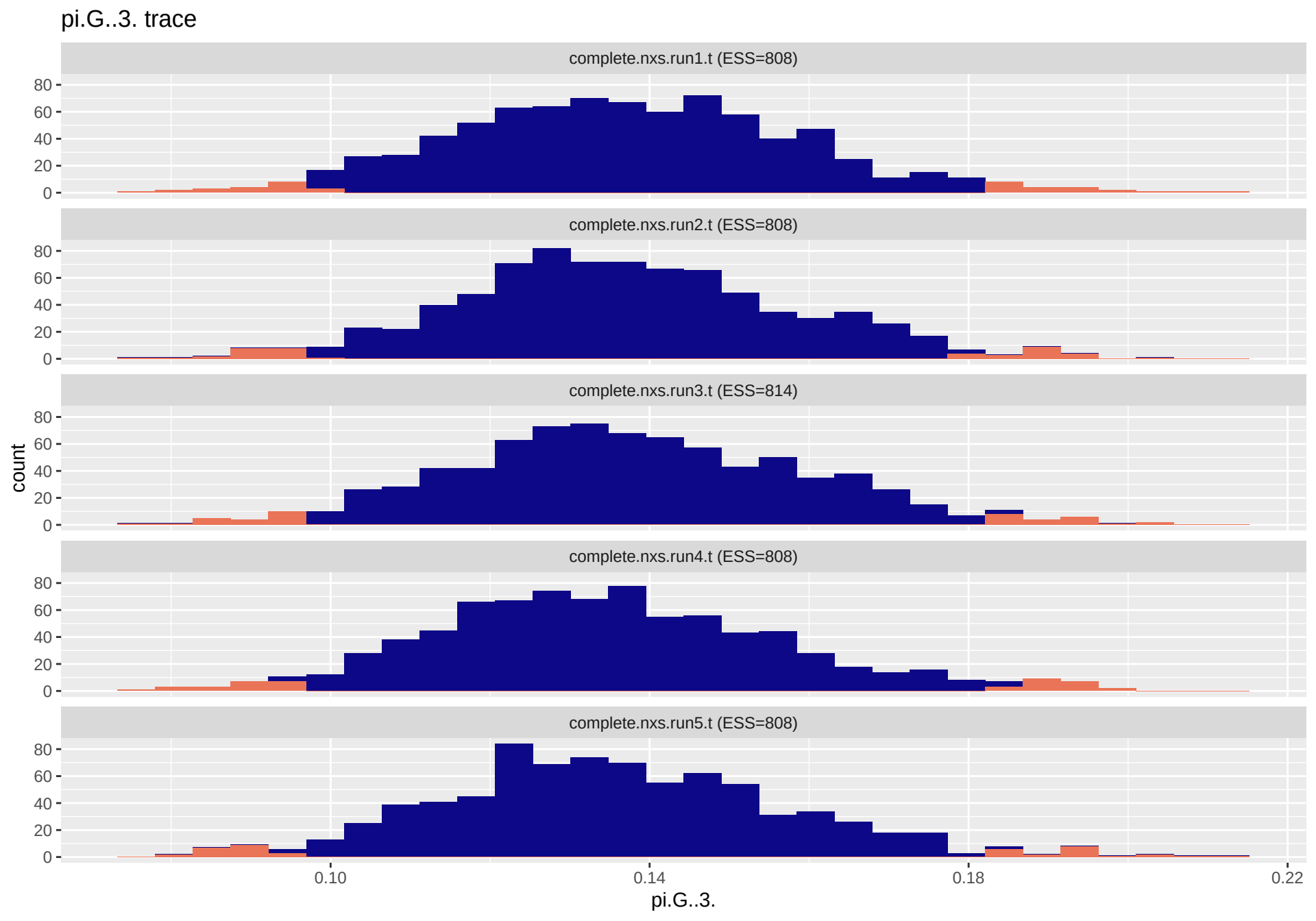

pi.A..3. trace
complete.nxs.run1.t (ESS=902)
complete.nxs.run2.t (ESS=945)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.A..3.
0.40
0.35
0.30
0.25
2e+06
4e+06
6e+06
8e+06
Generation

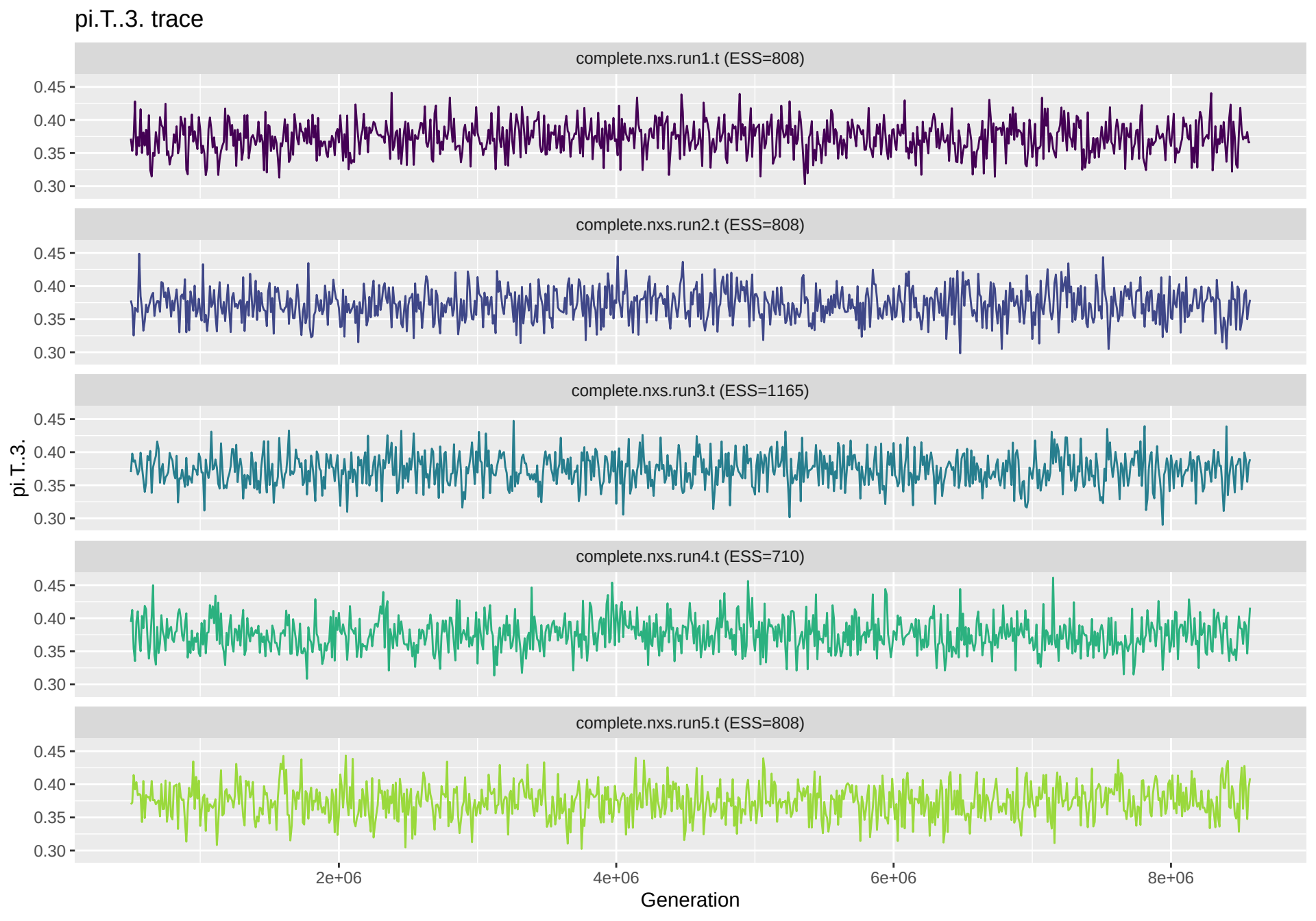

pi.A..3. trace
complete.nxs.run1.t (ESS=902)
complete.nxs.run2.t (ESS=945)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.25
0.30
0.35
0.40
0.45
pi.A..3.

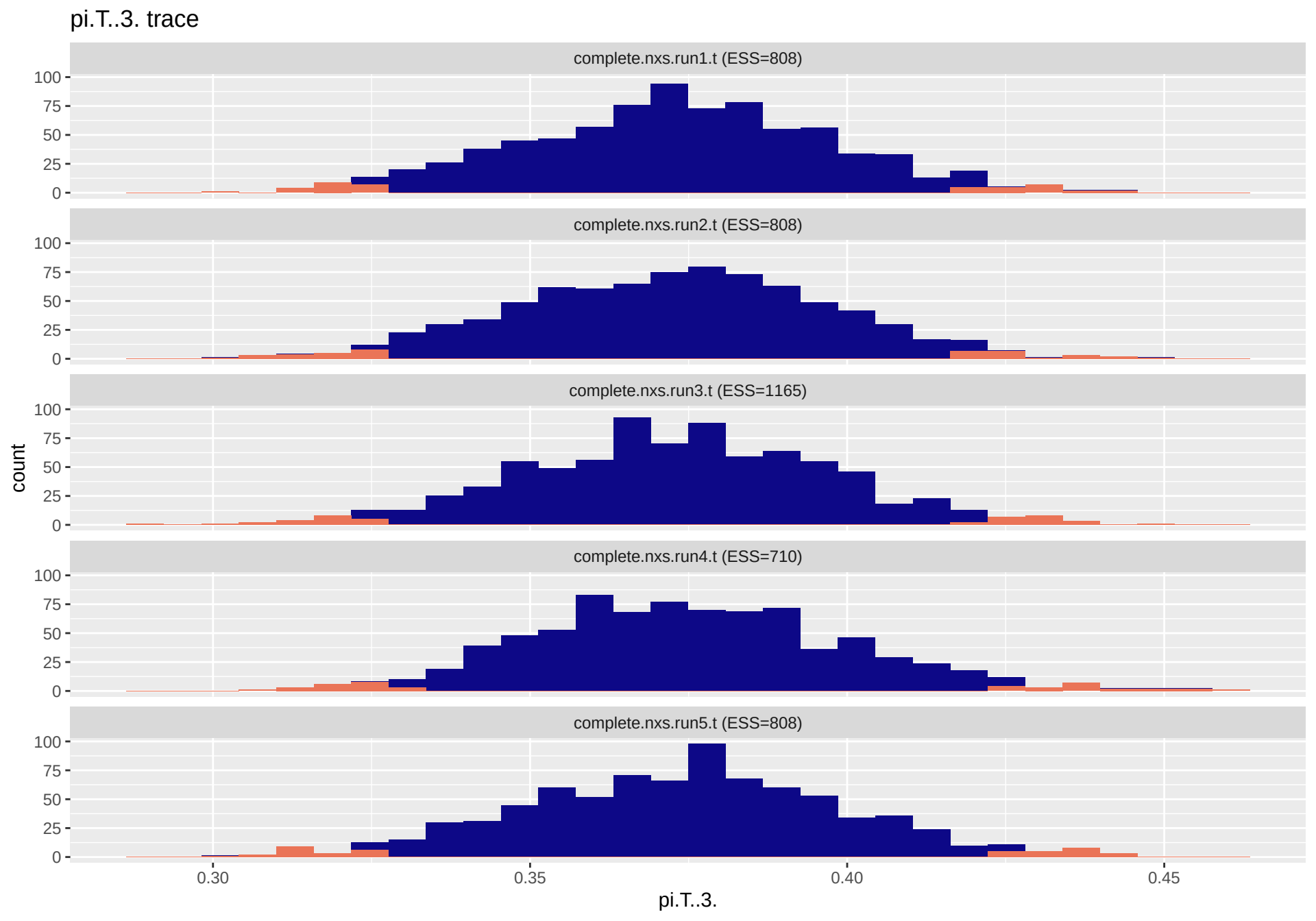

pi.C..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=712)
complete.nxs.run3.t (ESS=645)
complete.nxs.run4.t (ESS=926)
complete.nxs.run5.t (ESS=628)
pi.C..3.
0.225
0.200
0.175
0.150
0.125
0.100
2e+06
4e+06
6e+06
8e+06
Generation

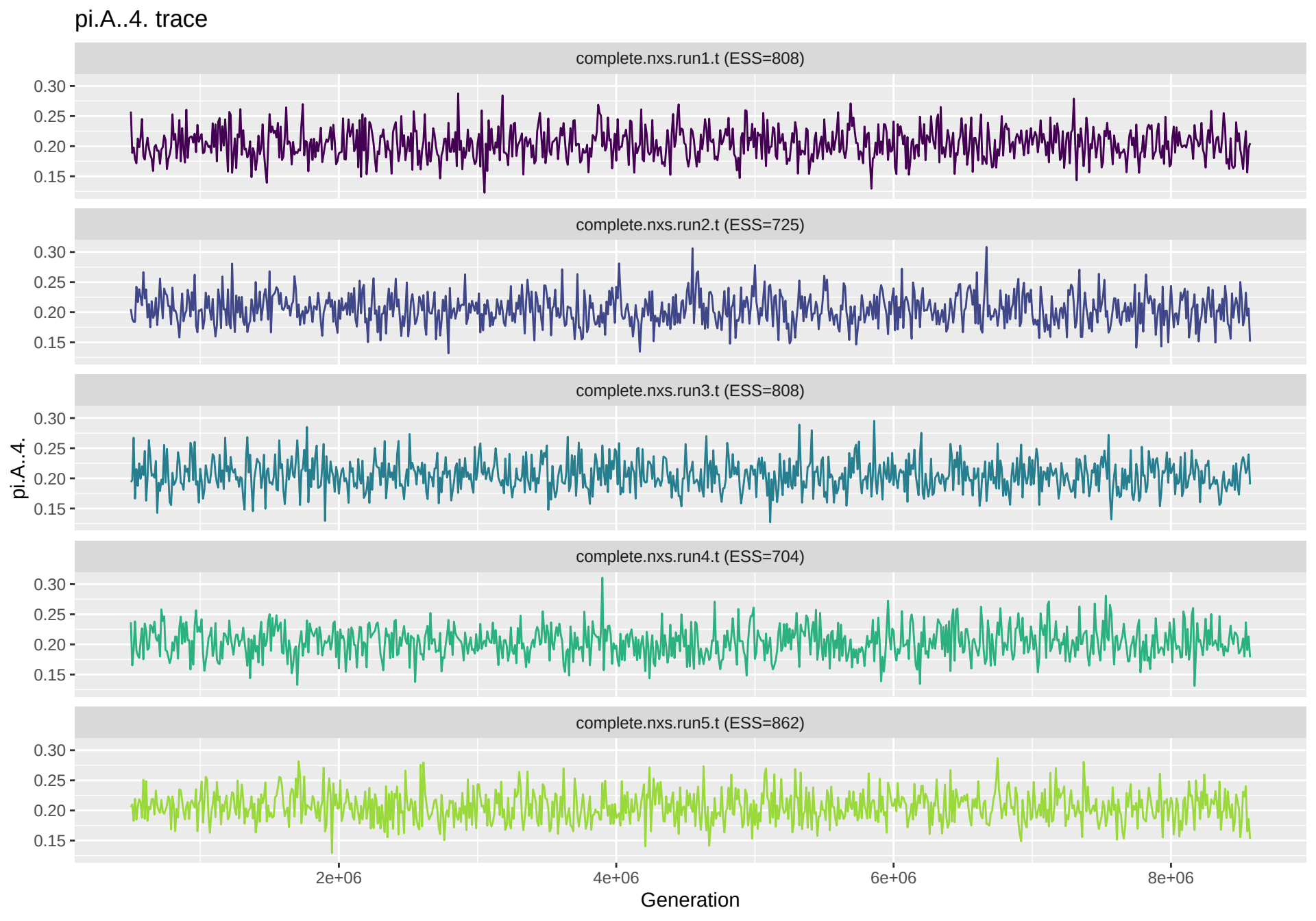

pi.C..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=712)
complete.nxs.run3.t (ESS=645)
complete.nxs.run4.t (ESS=926)
complete.nxs.run5.t (ESS=628)
count
0
25
50
75
0.12
0.16
0.20
pi.C..3.

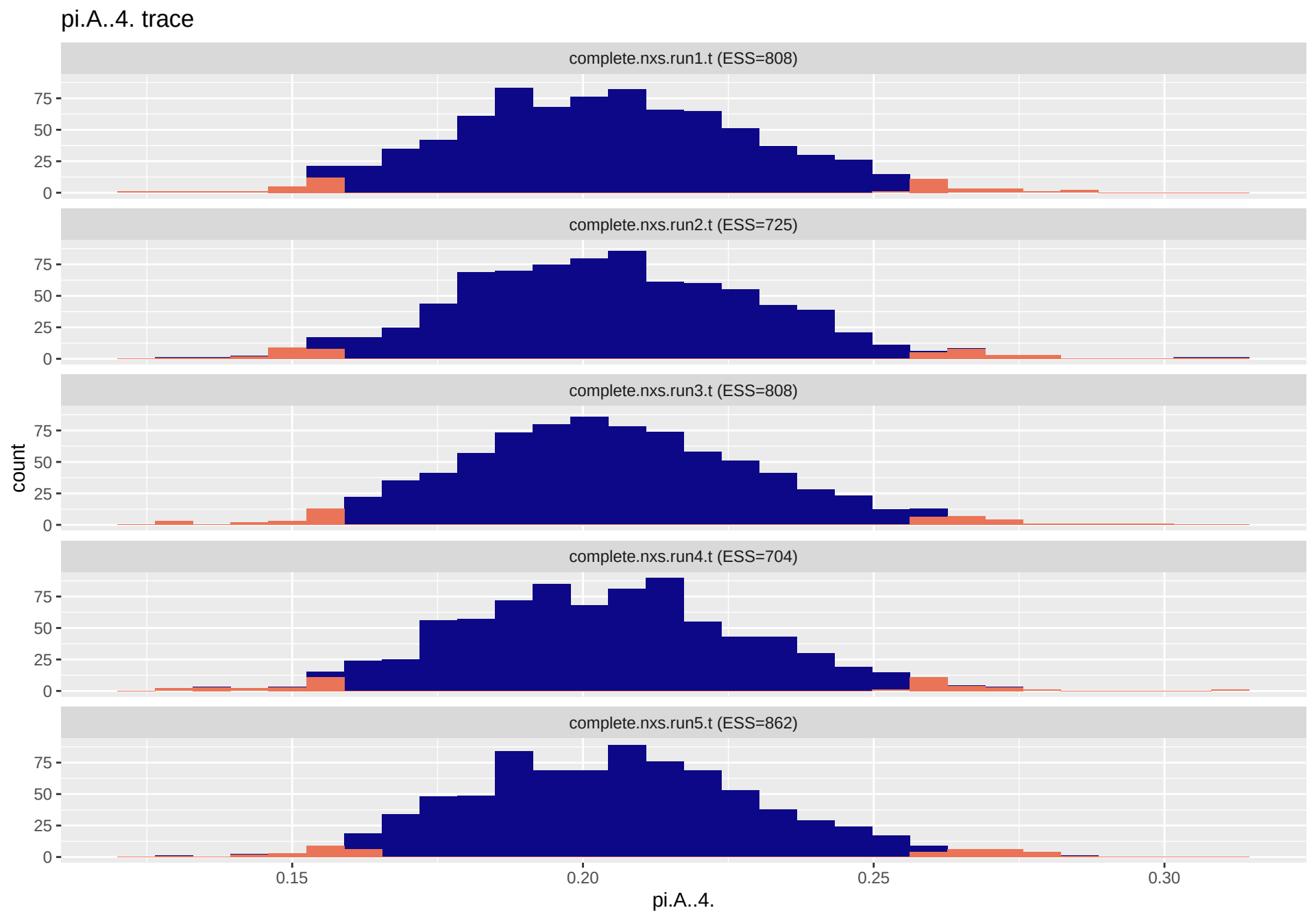

pi.G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=814)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.18
0.14
0.10
pi.G..3.
2e+06
4e+06
6e+06
8e+06
Generation

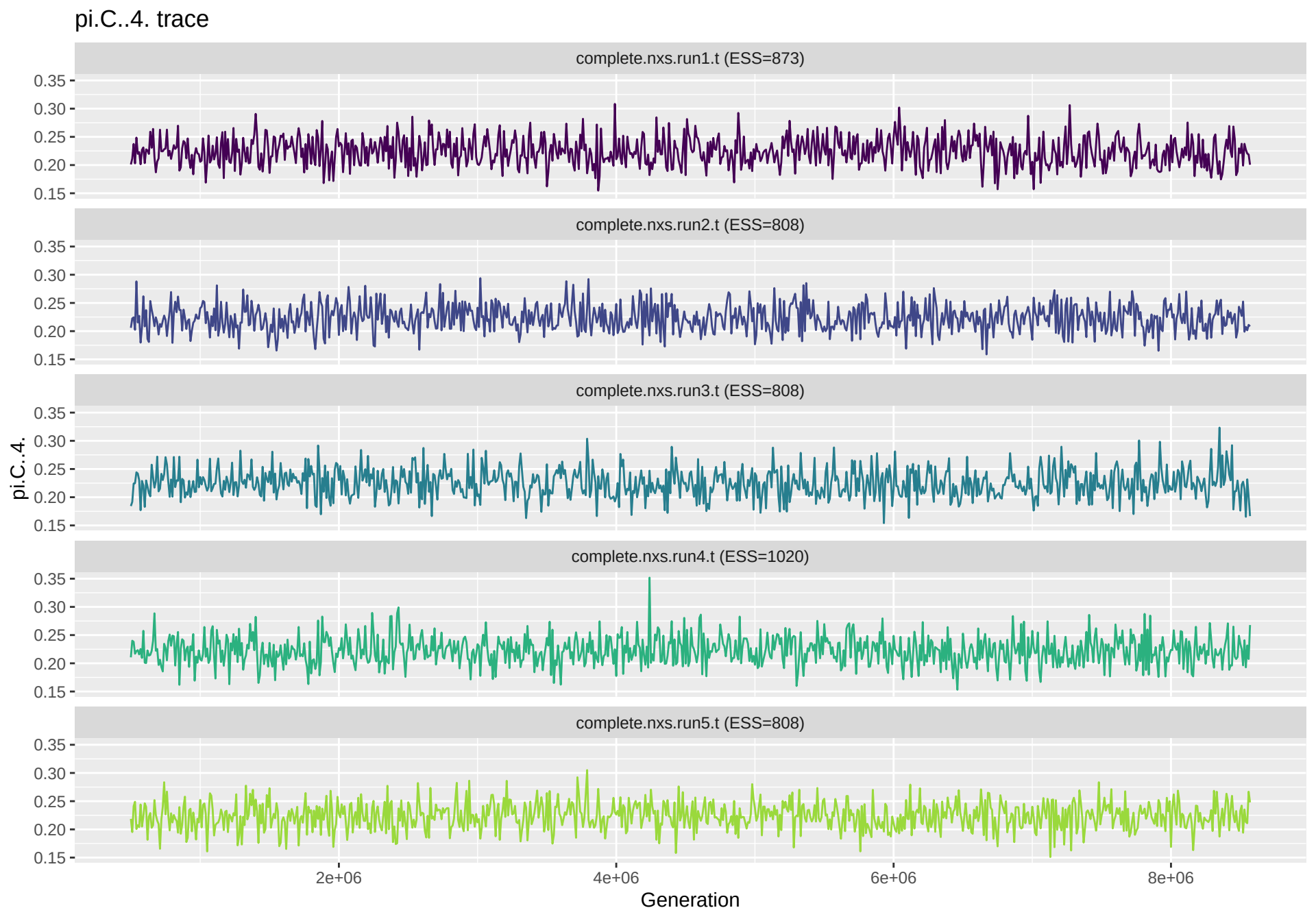

pi.G..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=814)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
20
40
60
80
0.10
0.14
0.18
0.22
pi.G..3.

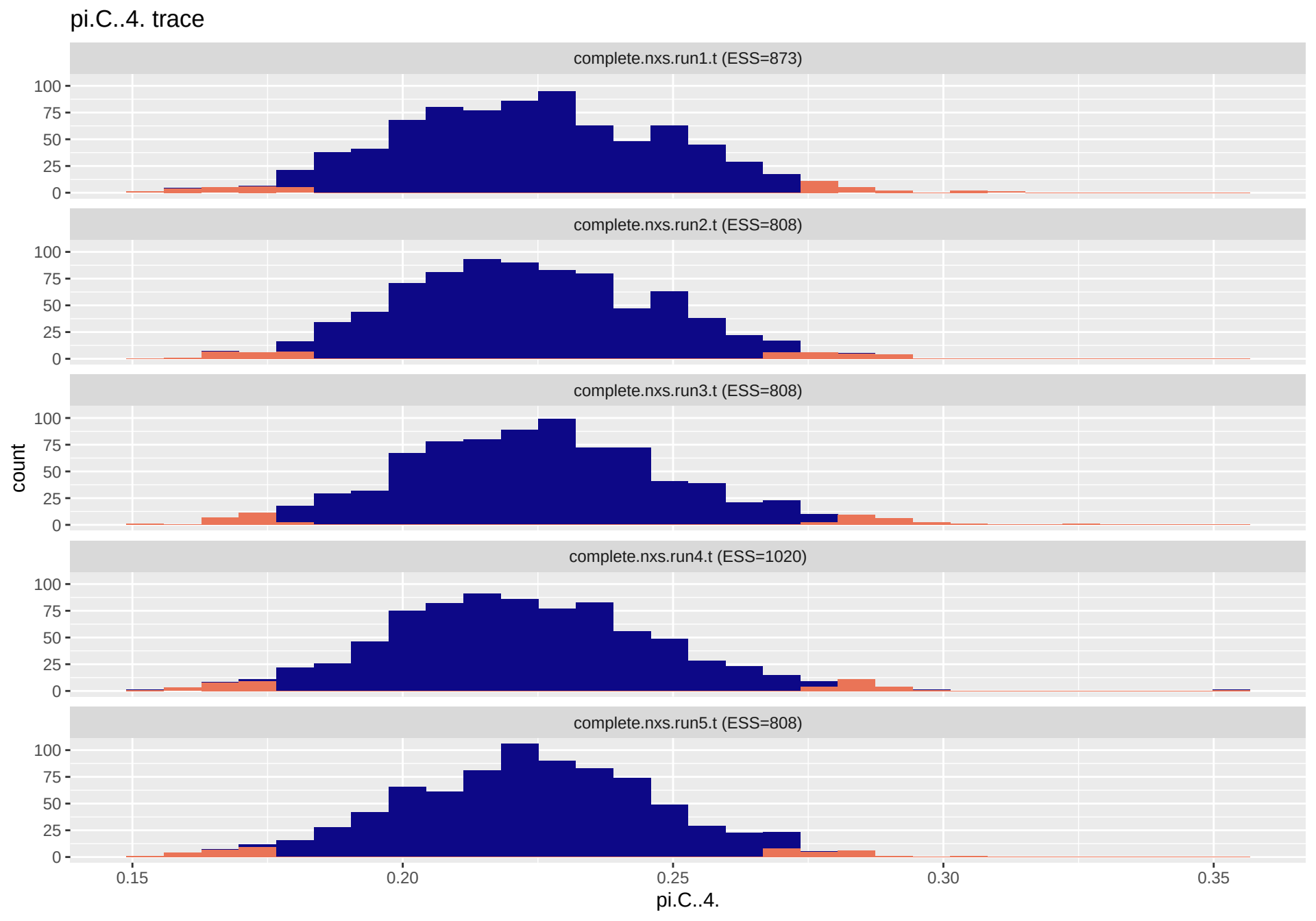

pi.T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=1165)
complete.nxs.run4.t (ESS=710)
complete.nxs.run5.t (ESS=808)
0.45
0.40
0.35
0.30
pi.T..3.
2e+06
4e+06
6e+06
8e+06
Generation

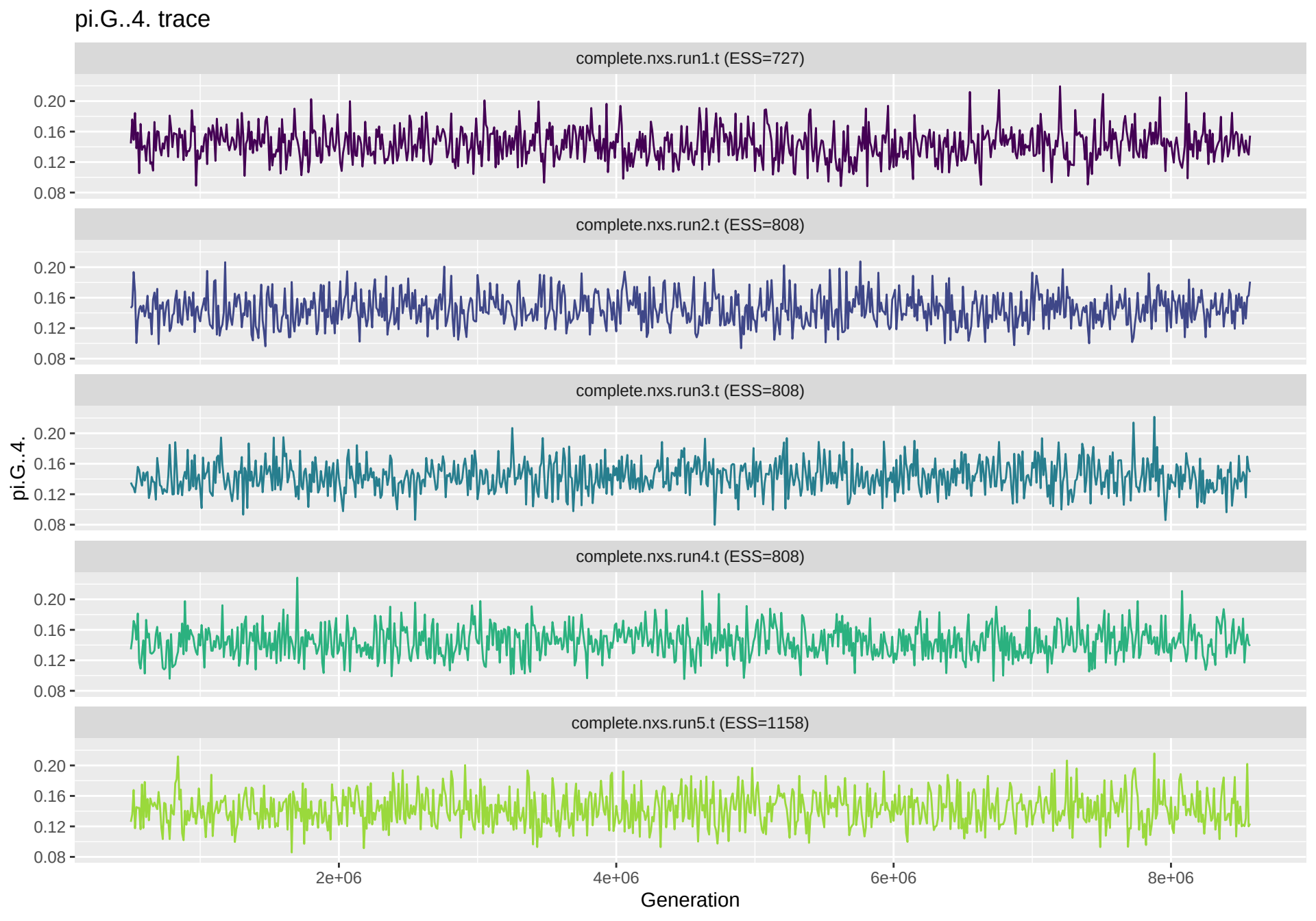

pi.T..3. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=1165)
complete.nxs.run4.t (ESS=710)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.30
0.35
0.40
0.45
pi.T..3.

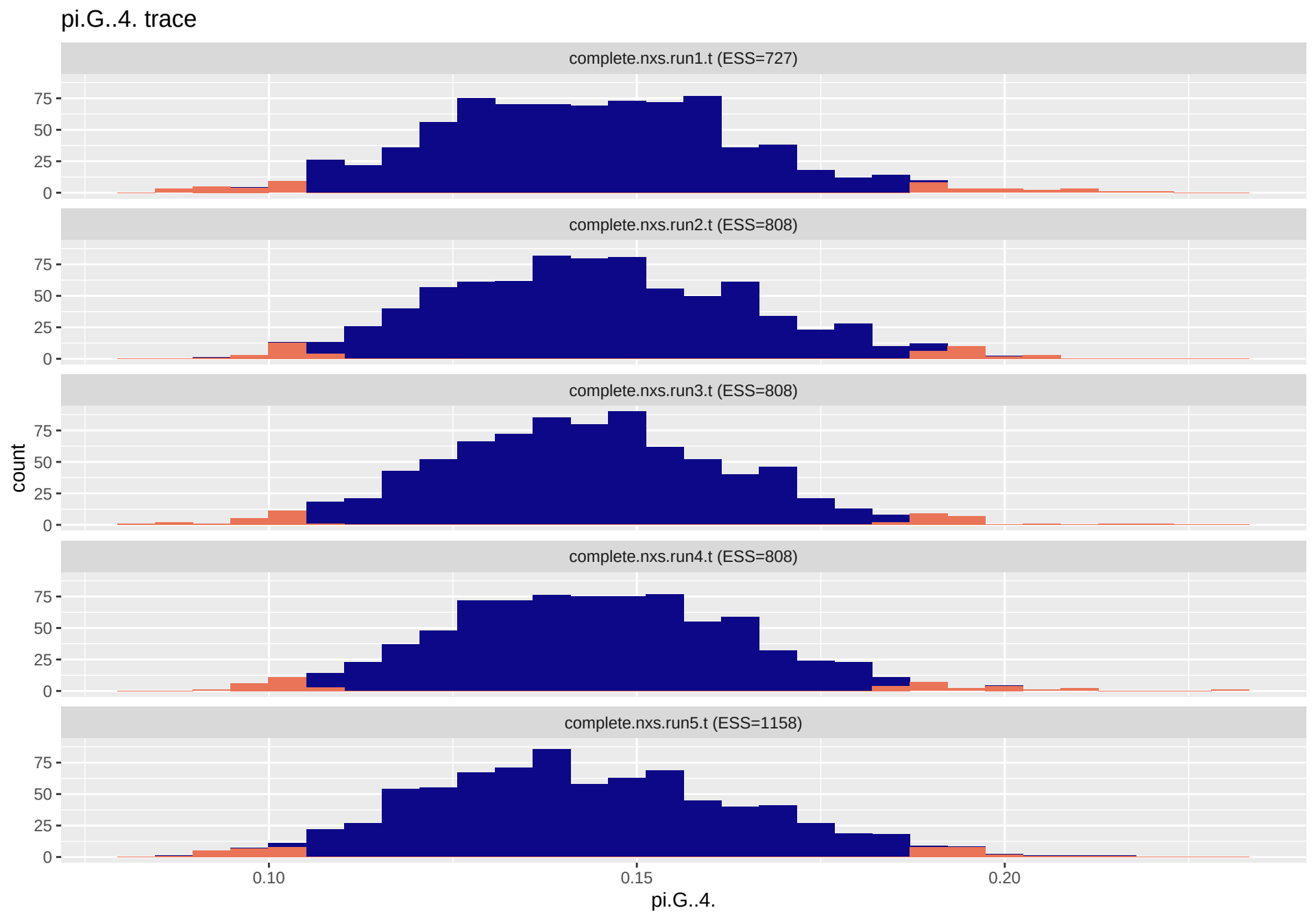

pi.A..4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=725)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=704)
complete.nxs.run5.t (ESS=862)
pi.A..4.
0.30
0.25
0.20
0.15
2e+06
4e+06
6e+06
8e+06
Generation

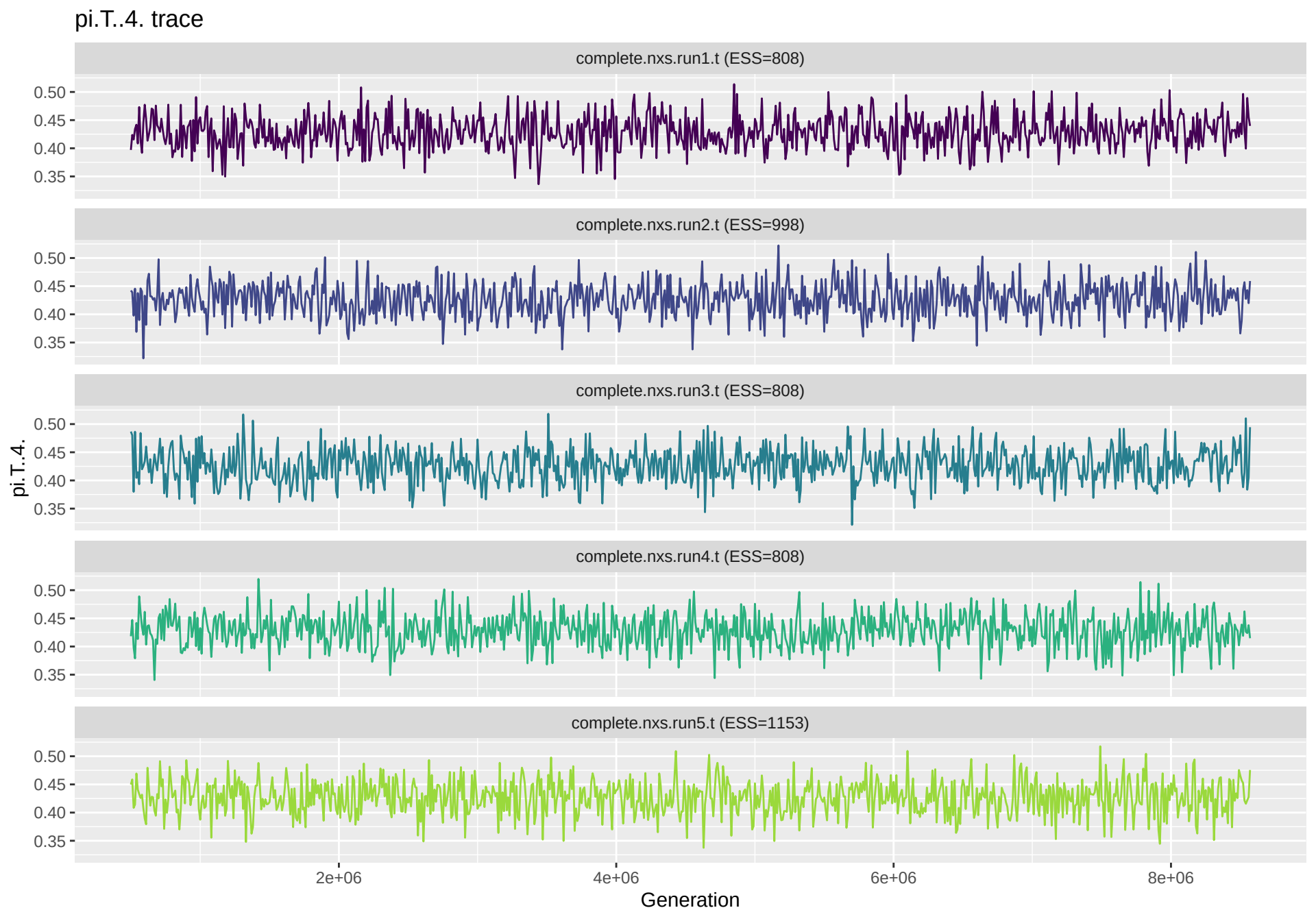

pi.A..4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=725)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=704)
complete.nxs.run5.t (ESS=862)
count
0
25
50
75
0.15
0.20
0.25
0.30
pi.A..4.

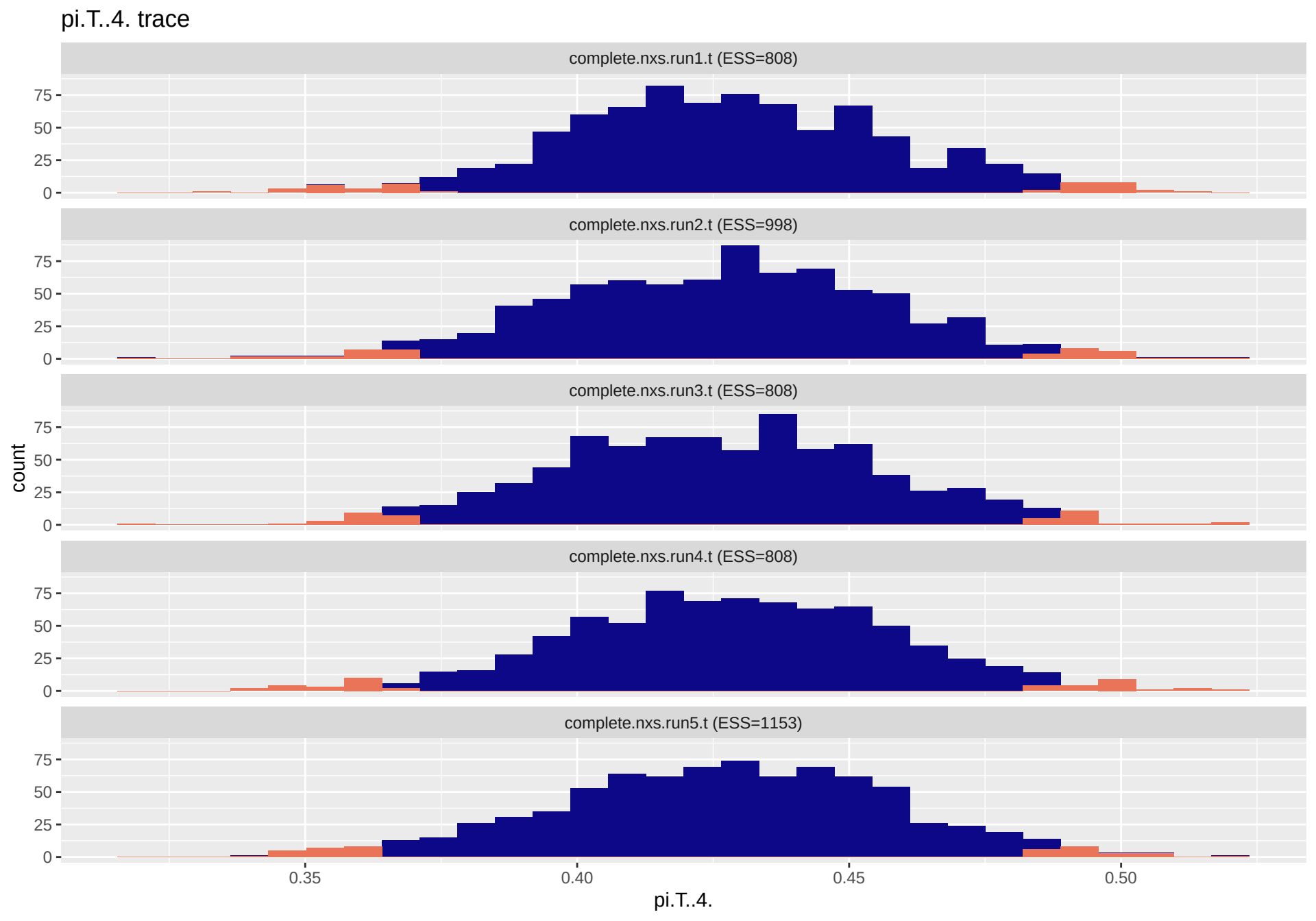

pi.C..4. trace
complete.nxs.run1.t (ESS=873)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=1020)
complete.nxs.run5.t (ESS=808)
pi.C..4.
0.35
0.30
0.25
0.20
0.15
2e+06
4e+06
6e+06
8e+06
Generation

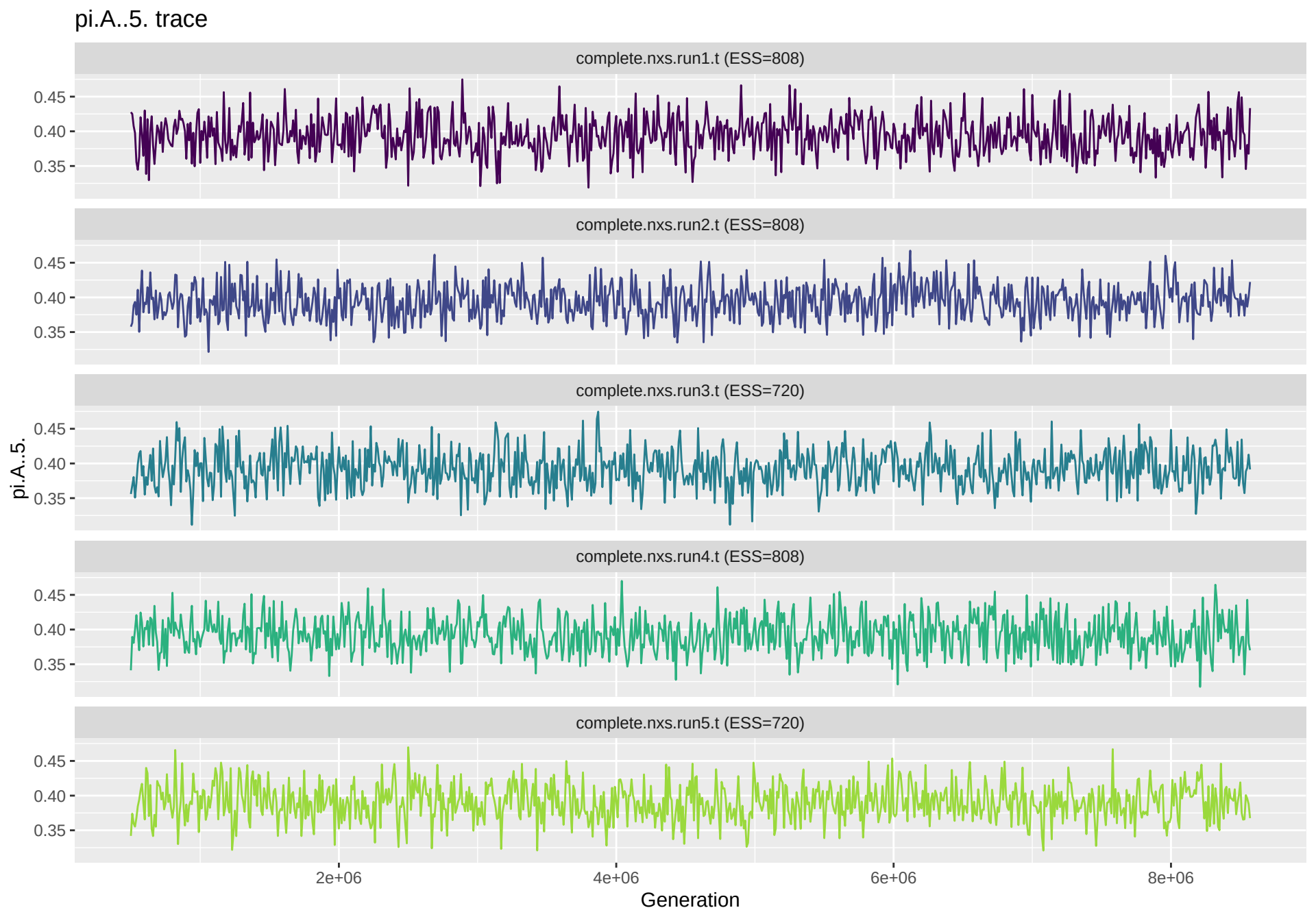

pi.C..4. trace
complete.nxs.run1.t (ESS=873)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=1020)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.15
0.20
0.25
0.30
0.35
pi.C..4.

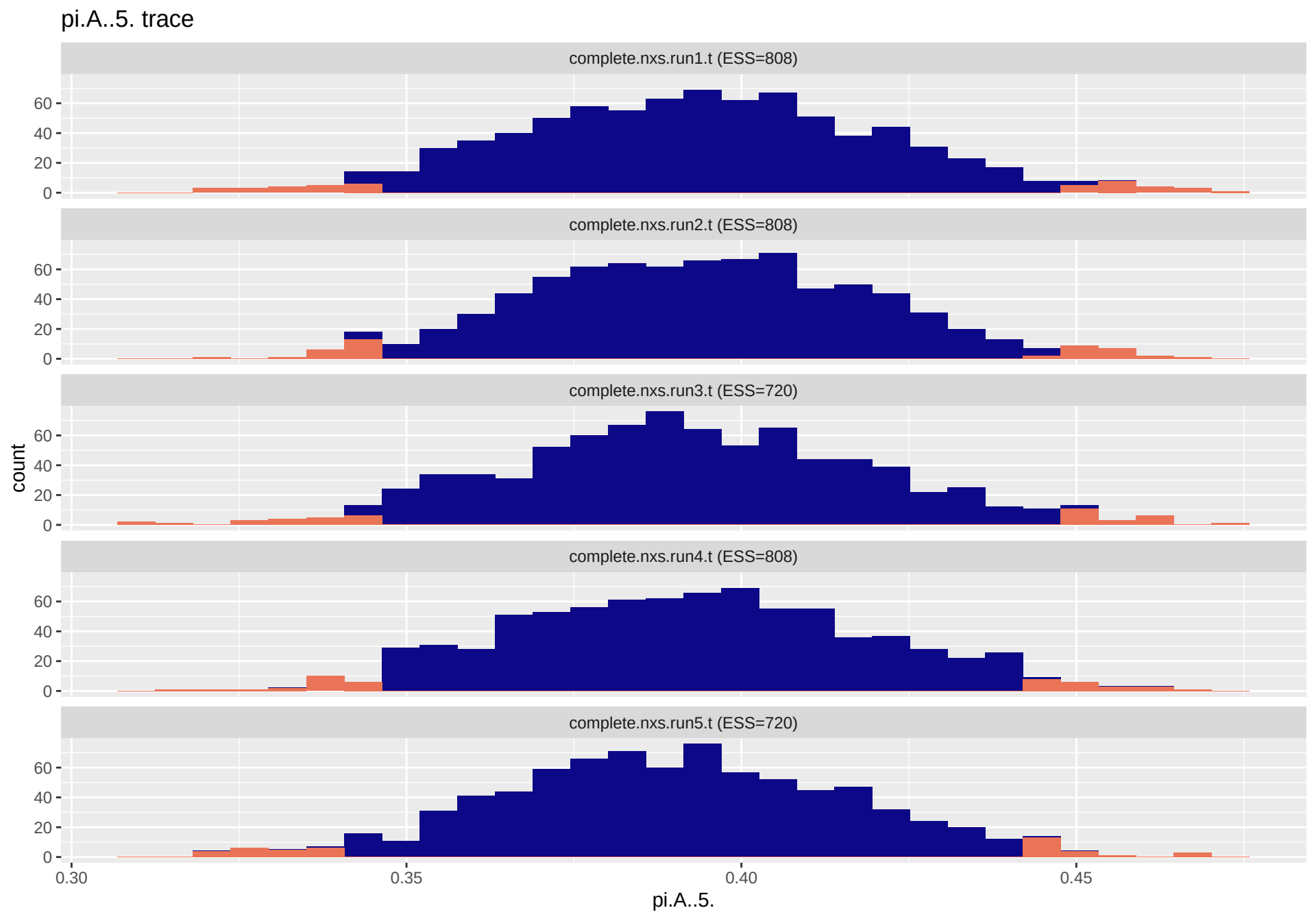

pi.G..4. trace
complete.nxs.run1.t (ESS=727)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1158)
pi.G..4.
0.20
0.16
0.12
0.08
2e+06
4e+06
6e+06
8e+06
Generation

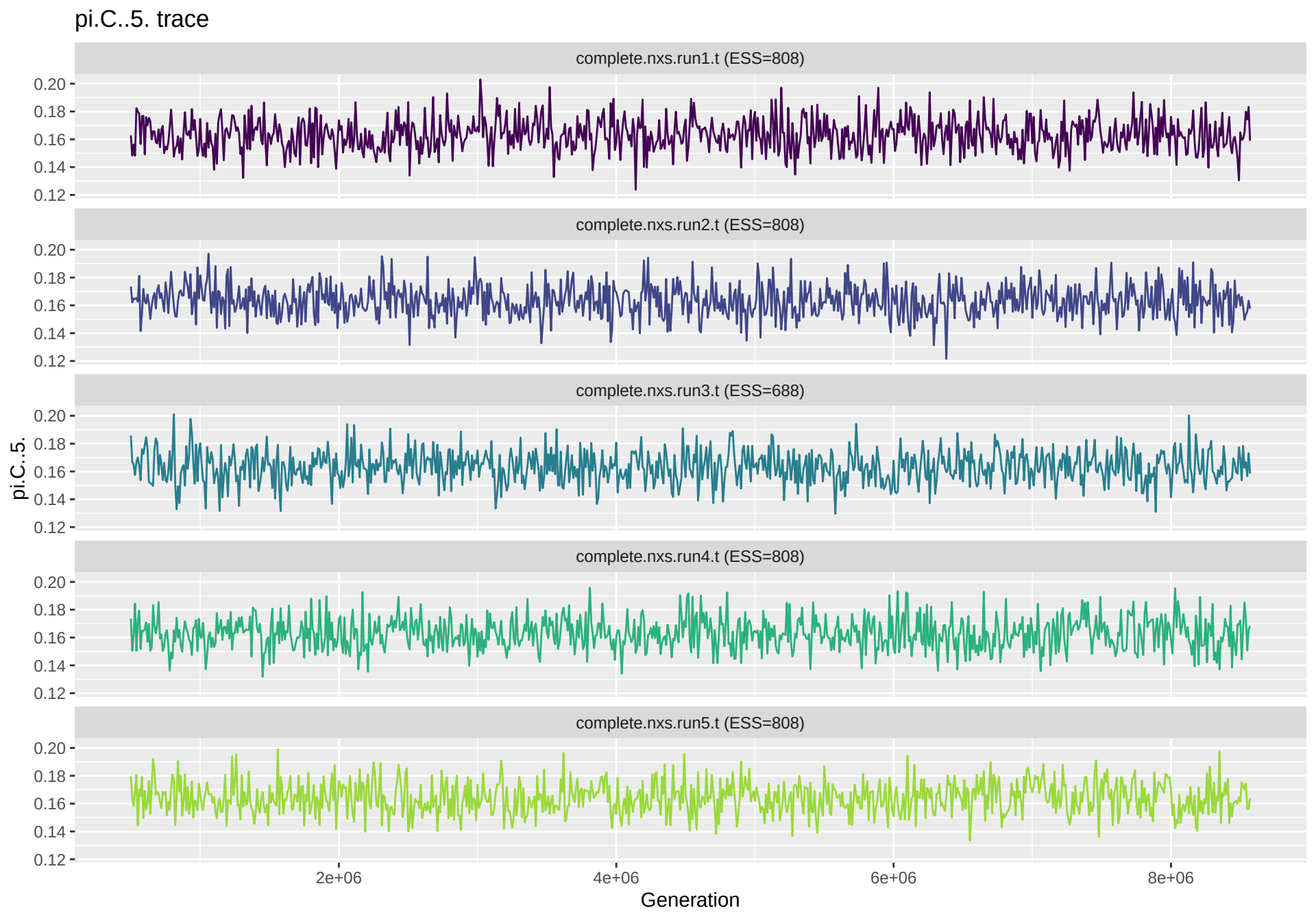

pi.G..4. trace
complete.nxs.run1.t (ESS=727)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1158)
count
0
25
50
75
0.10
0.15
0.20
pi.G..4.

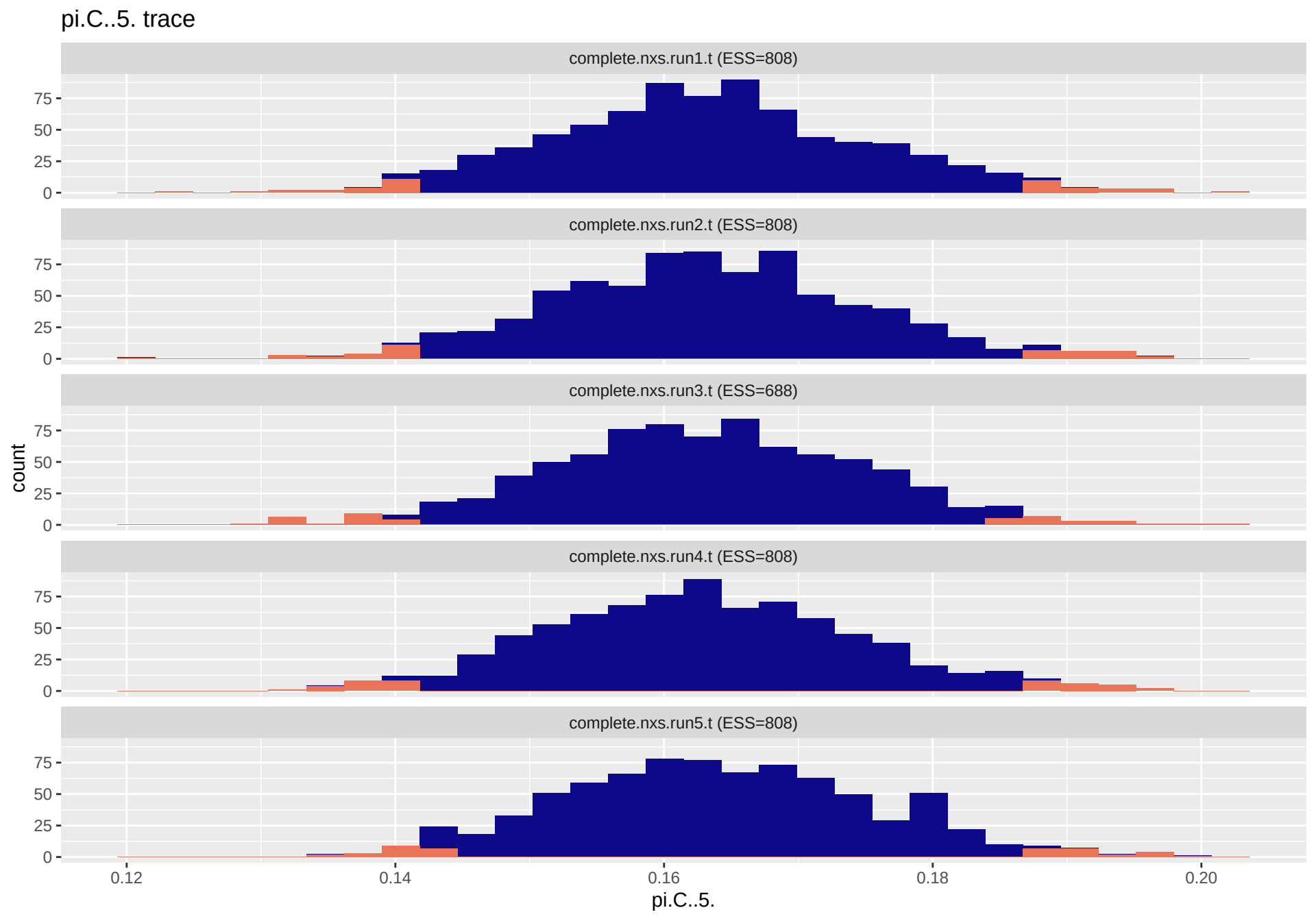

pi.T..4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=998)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1153)
0.50
0.45
0.40
0.35
pi.T..4.
2e+06
4e+06
6e+06
8e+06
Generation

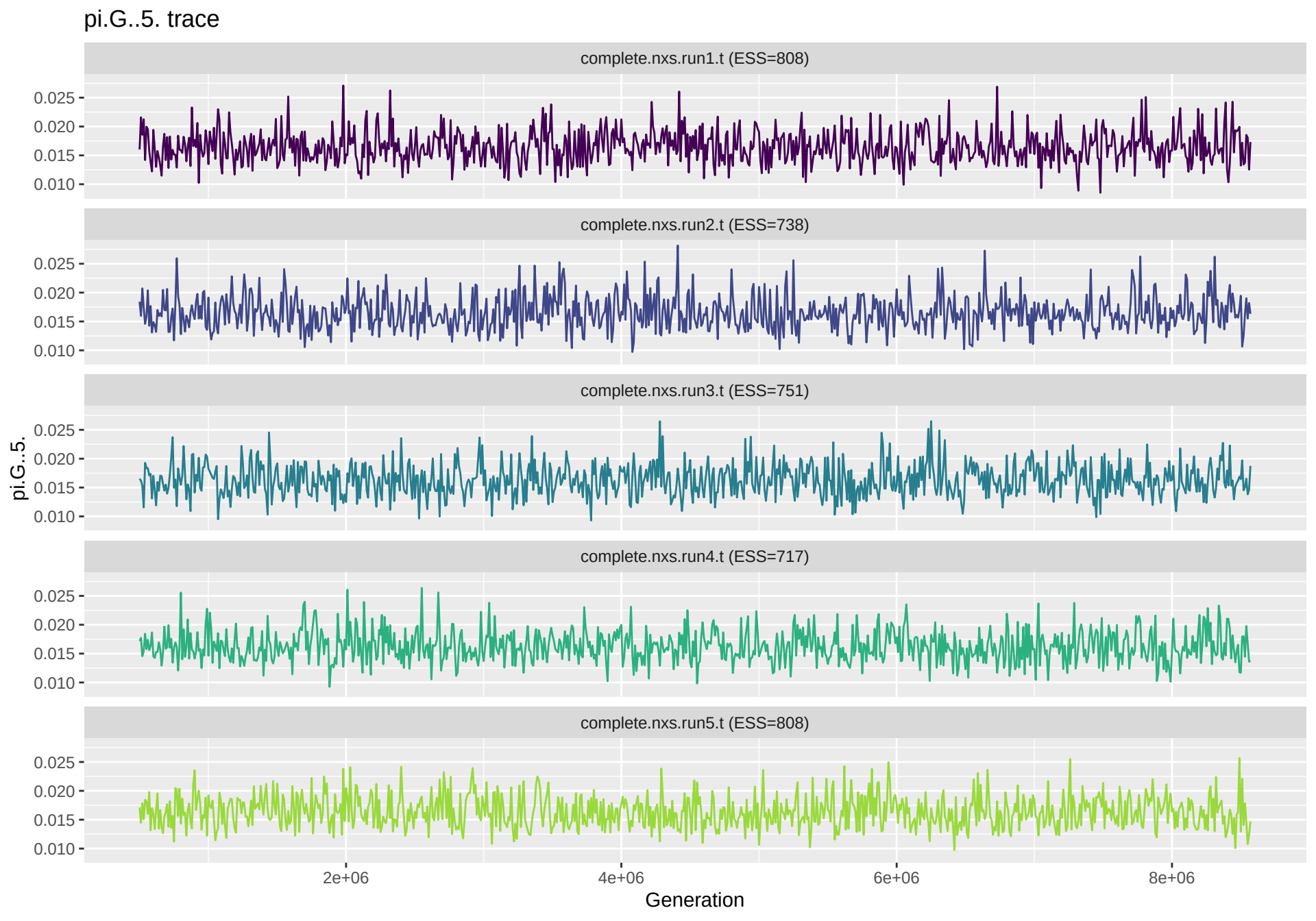

pi.T..4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=998)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1153)
count
0
25
50
75
0.35
0.40
0.45
0.50
pi.T..4.

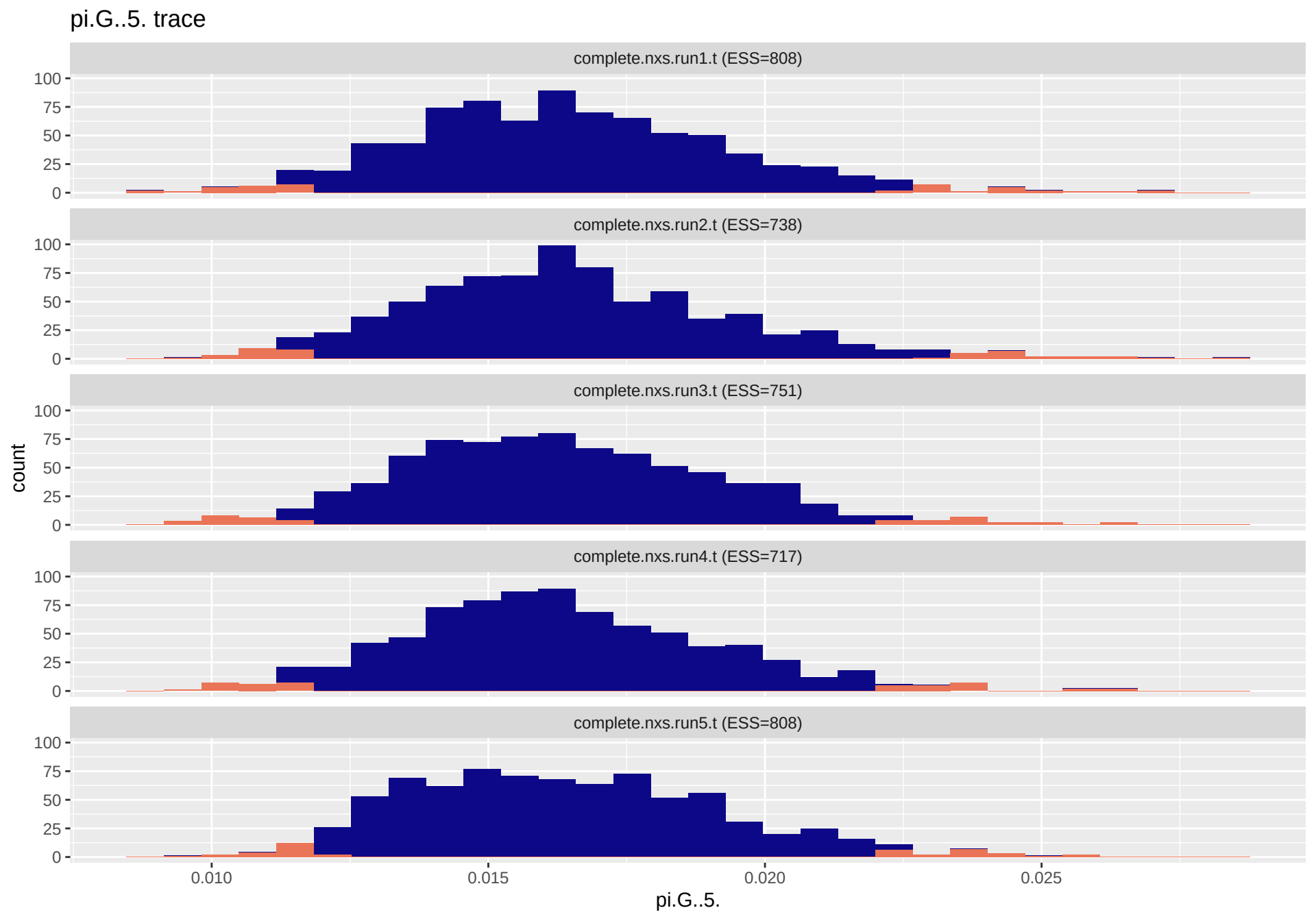

pi.A..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=720)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=720)
0.45
0.40
0.35
pi.A..5.
2e+06
4e+06
6e+06
8e+06
Generation

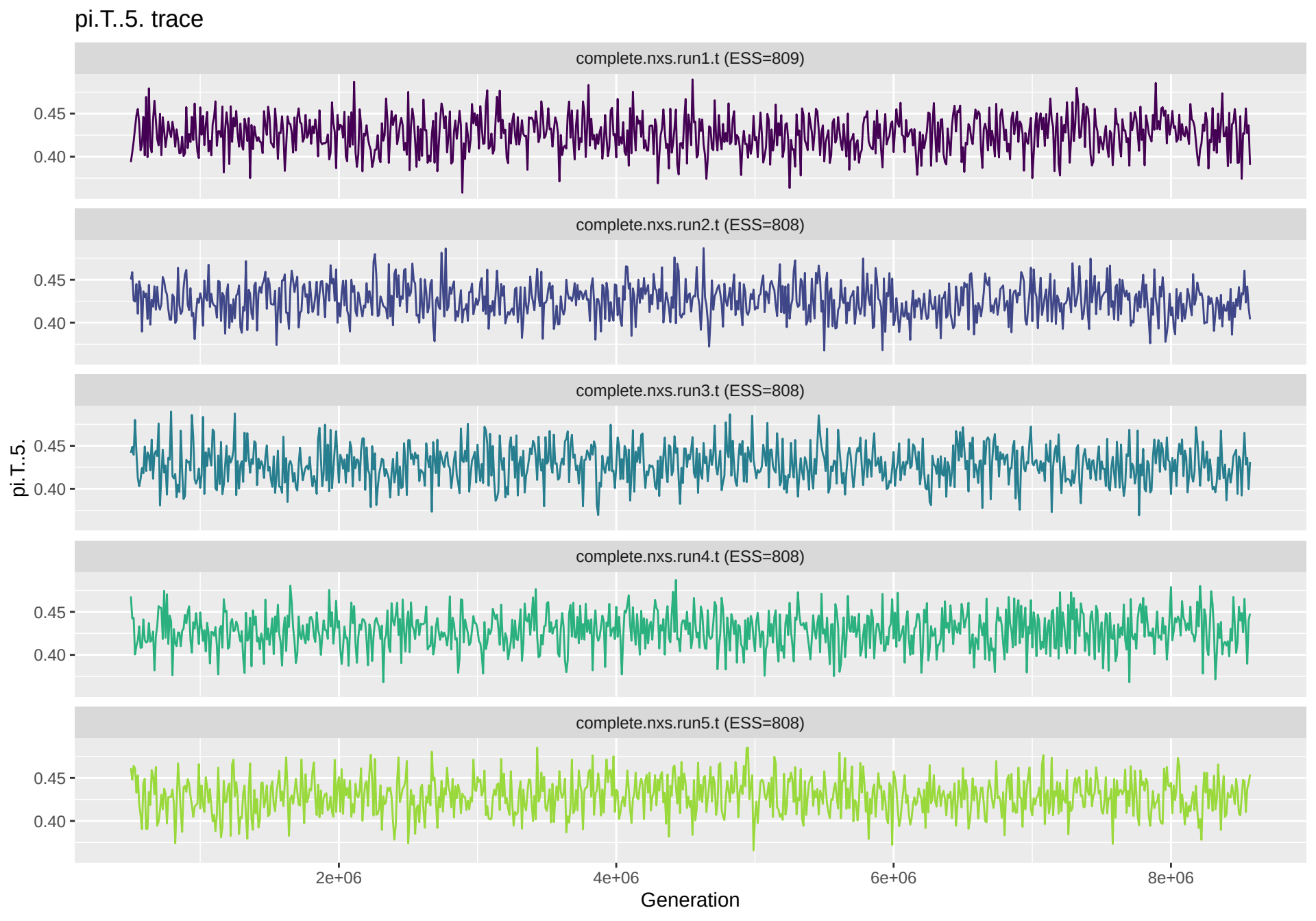

pi.A..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=720)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=720)
count
0
20
40
60
0.30
0.35
0.40
0.45
pi.A..5.

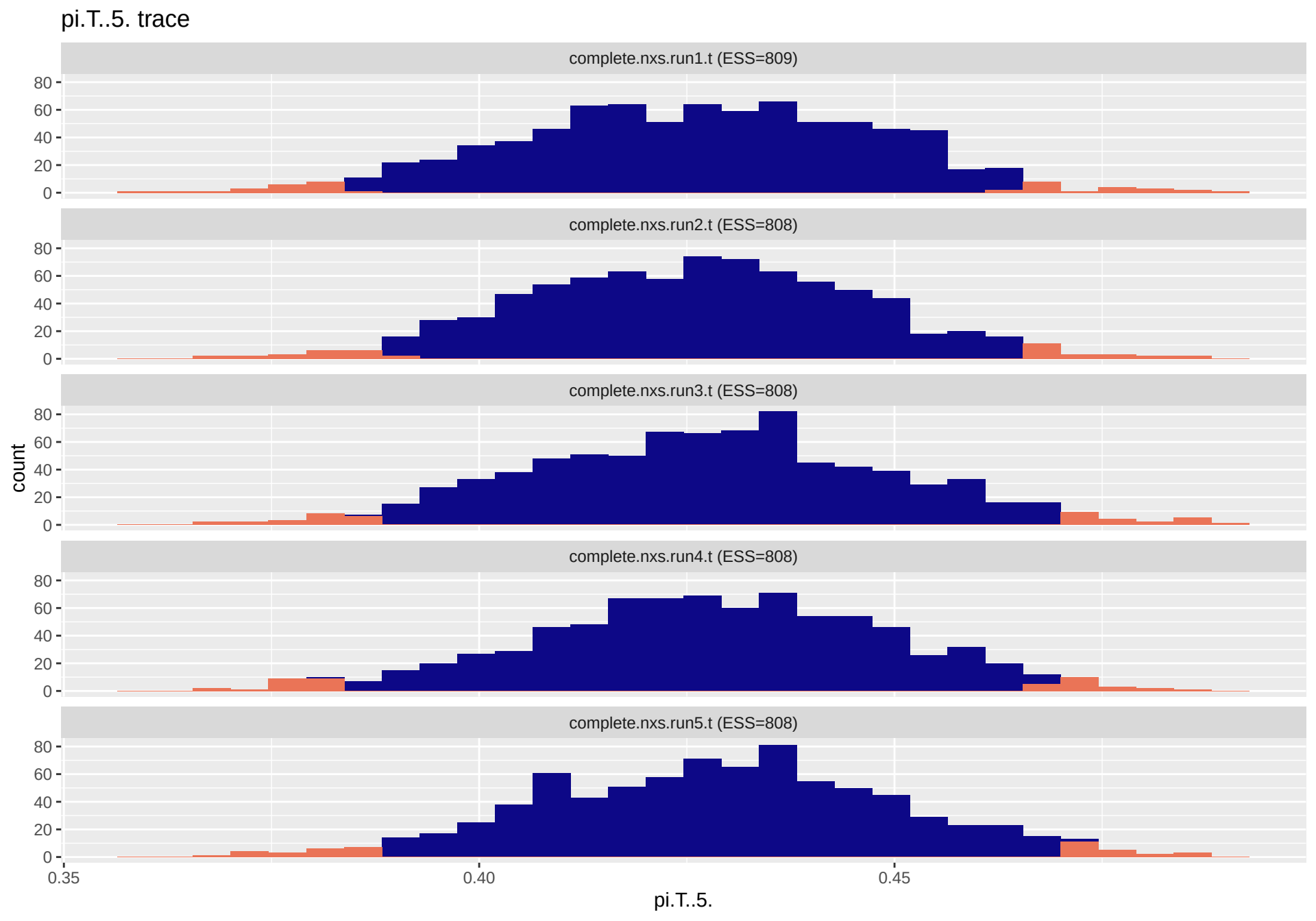

pi.C..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=688)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.C..5.
0.20
0.18
0.16
0.14
0.12
2e+06
4e+06
6e+06
8e+06
Generation

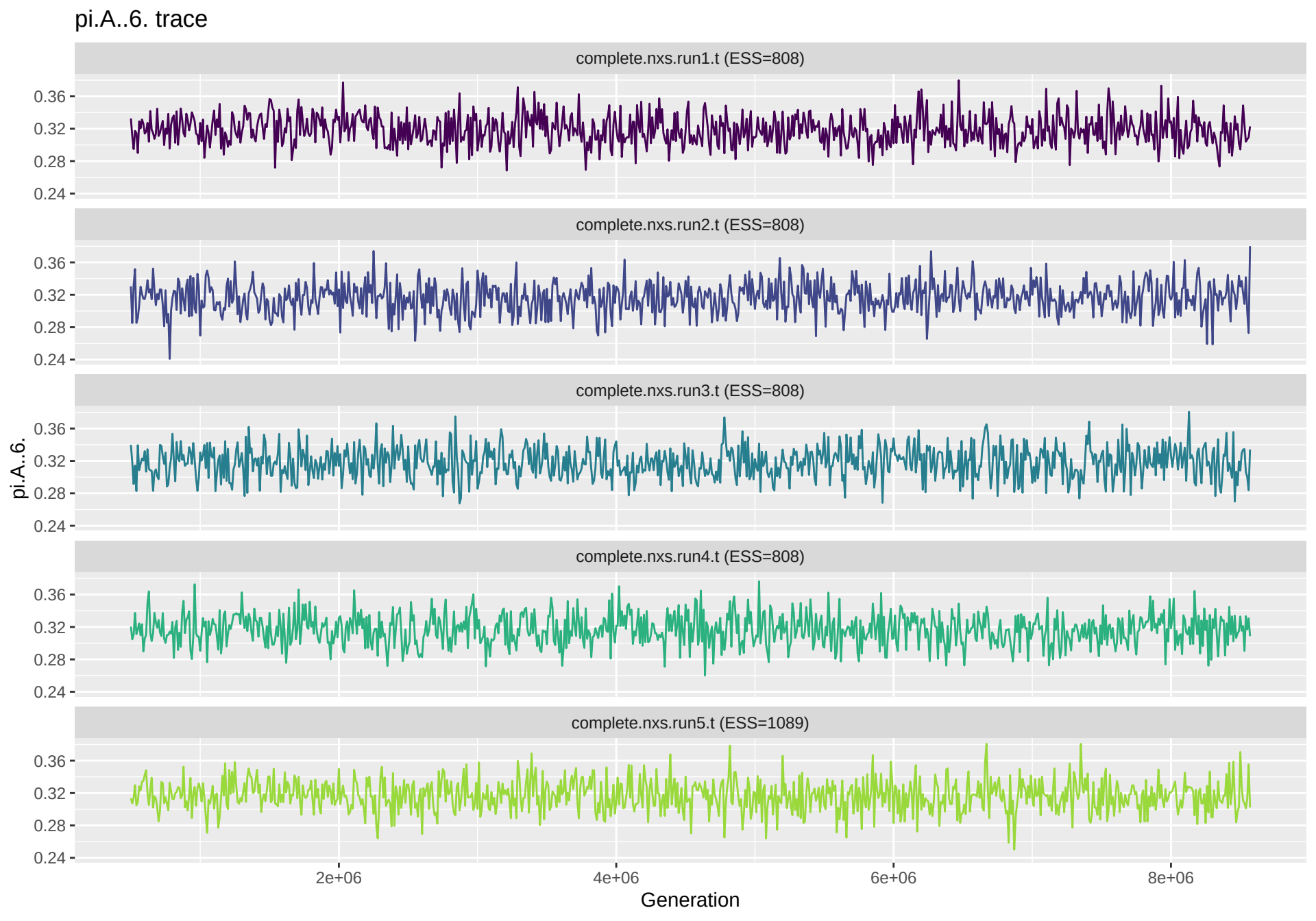

pi.C..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=688)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.12
0.14
0.16
0.18
0.20
pi.C..5.

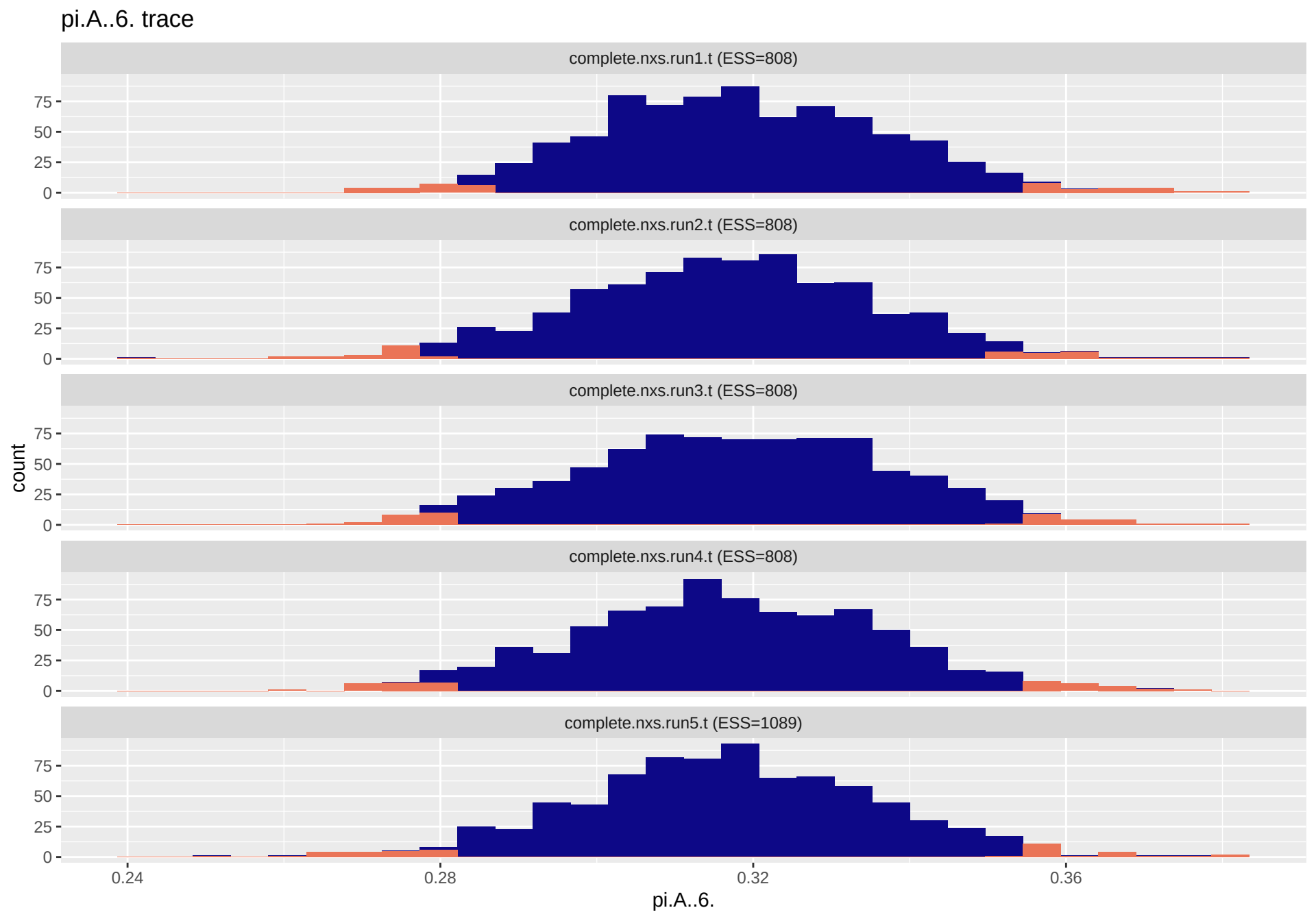

pi.G..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=738)
complete.nxs.run3.t (ESS=751)
complete.nxs.run4.t (ESS=717)
complete.nxs.run5.t (ESS=808)
pi.G..5.
0.025
0.020
0.015
0.010
2e+06
4e+06
6e+06
8e+06
Generation

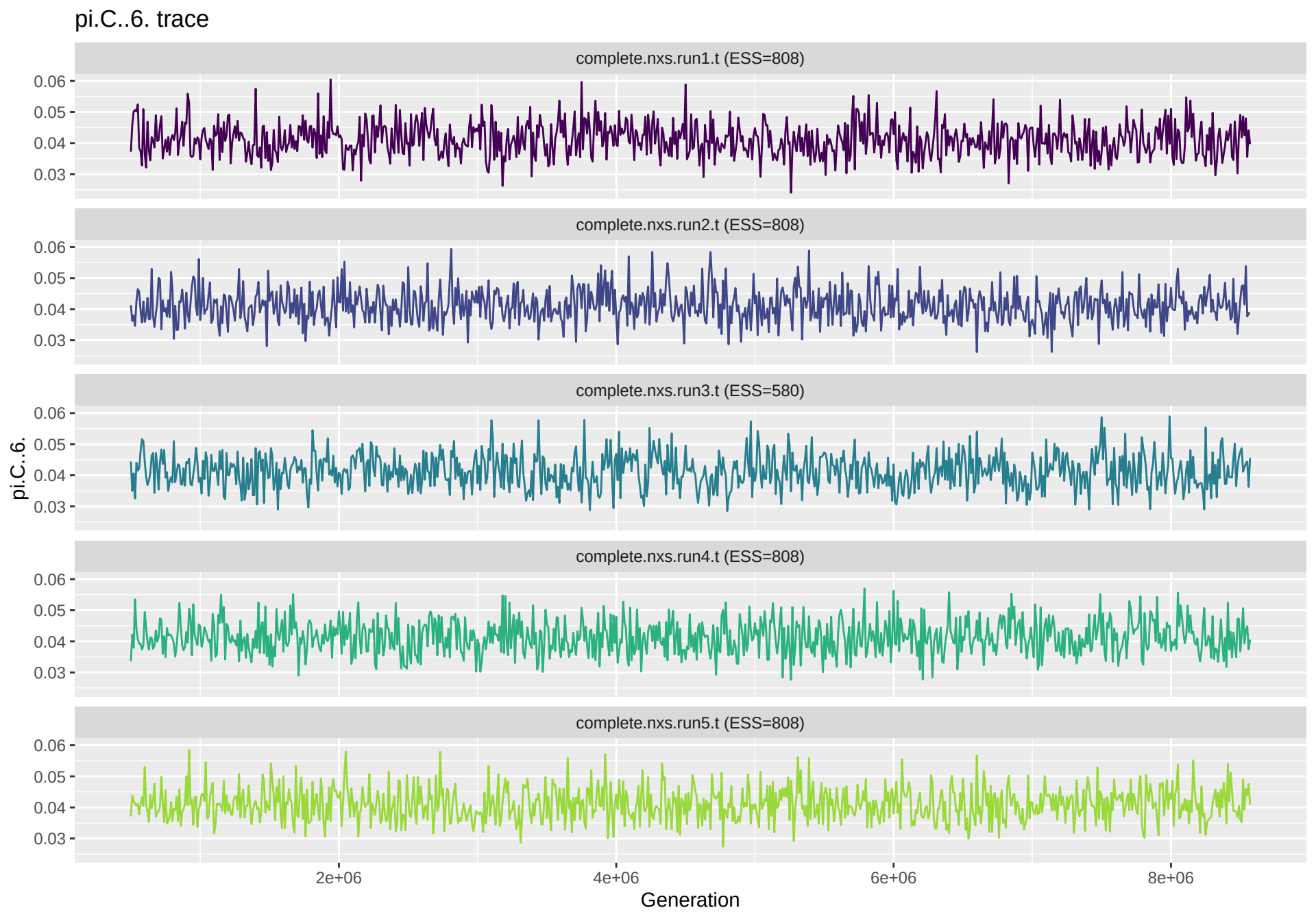

pi.G..5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=738)
complete.nxs.run3.t (ESS=751)
complete.nxs.run4.t (ESS=717)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.010
0.015
0.020
0.025
pi.G..5.

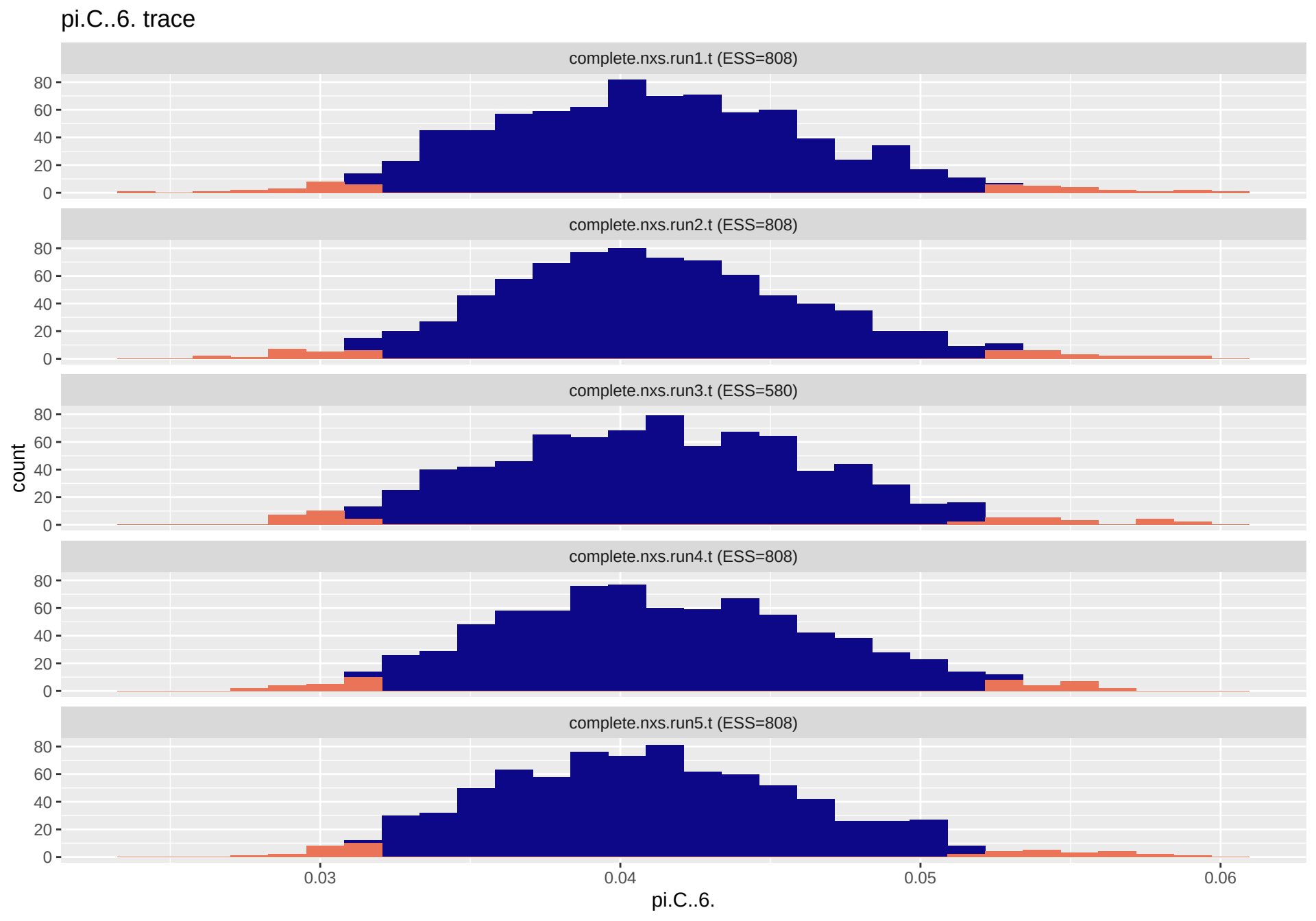

pi.T..5. trace
complete.nxs.run1.t (ESS=809)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.T..5.
0.45
0.40
2e+06
4e+06
6e+06
8e+06
Generation

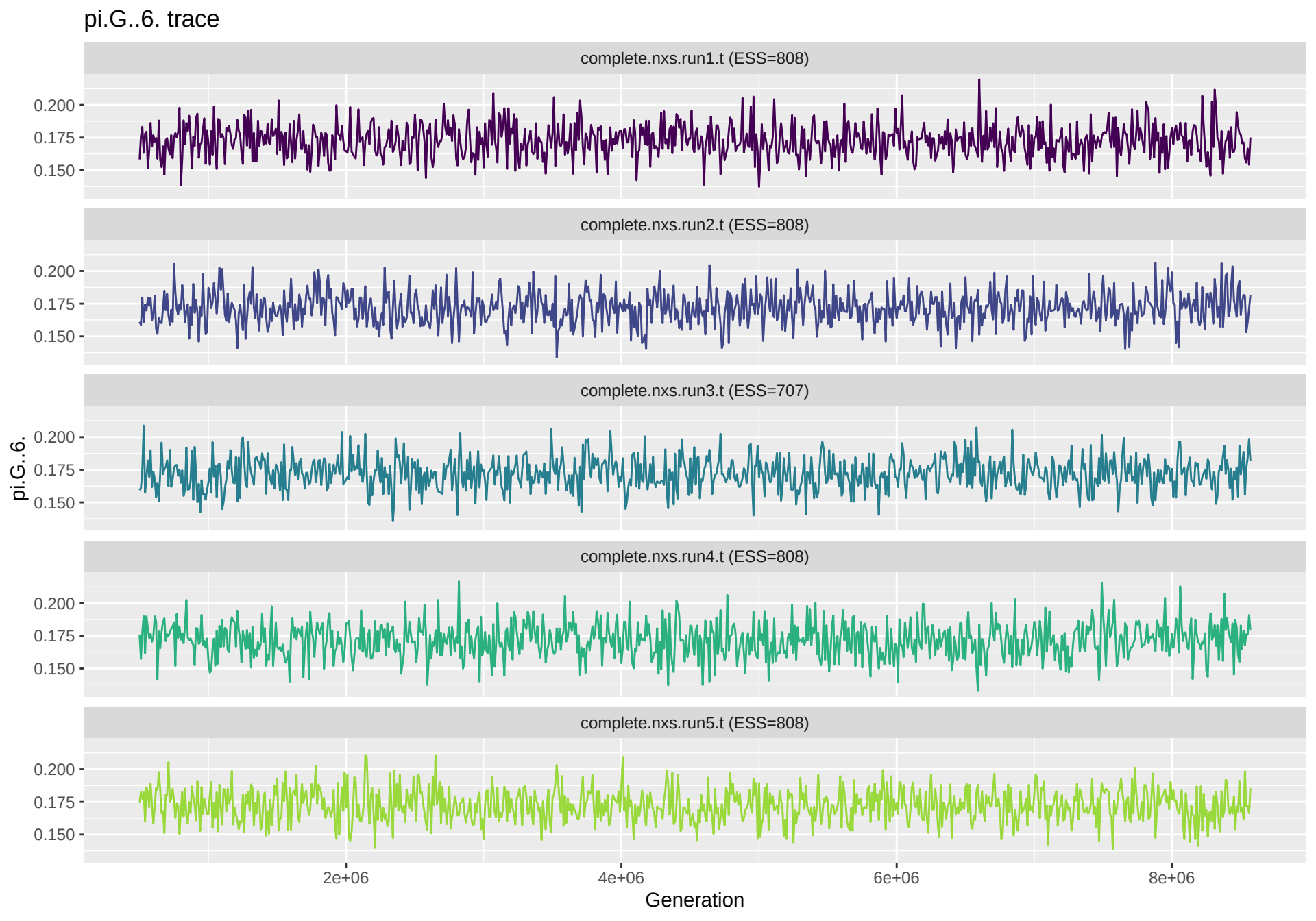

pi.T..5. trace
complete.nxs.run1.t (ESS=809)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
20
40
60
80
0.35
0.40
0.45
pi.T..5.

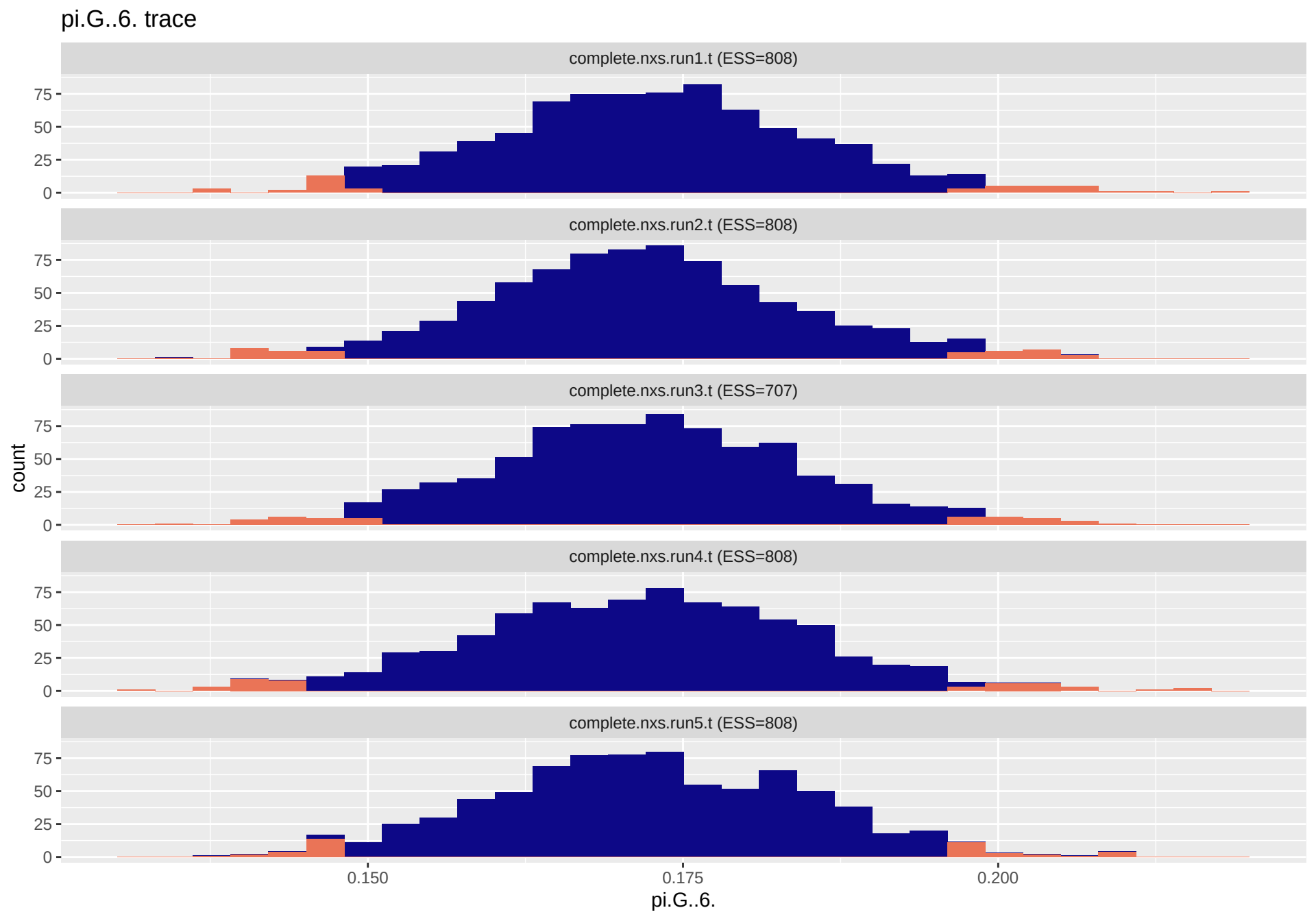

pi.A..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1089)
pi.A..6.
0.36
0.32
0.28
0.24
2e+06
4e+06
6e+06
8e+06
Generation

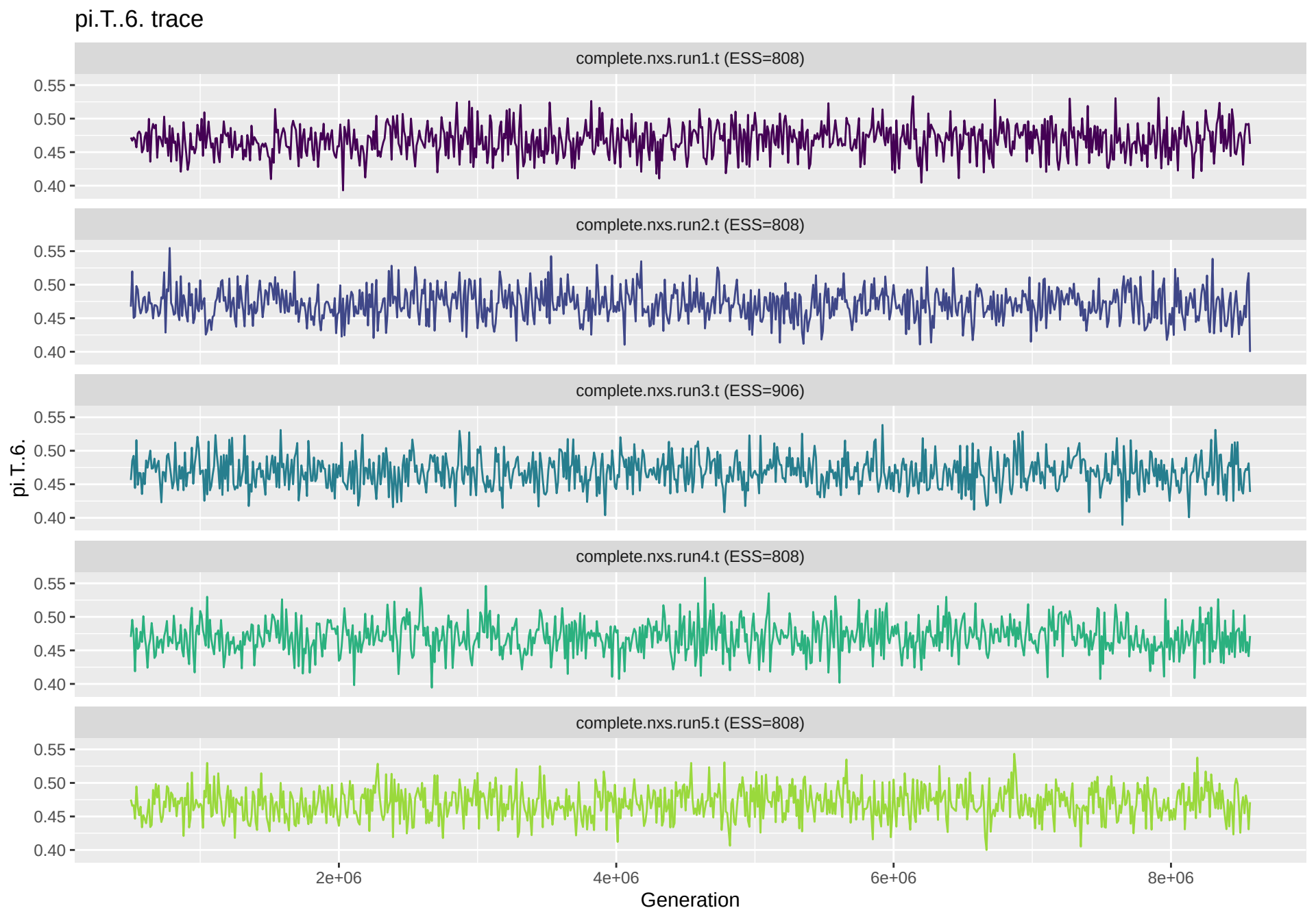

pi.A..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=1089)
count
0
25
50
75
0.24
0.28
0.32
0.36
pi.A..6.

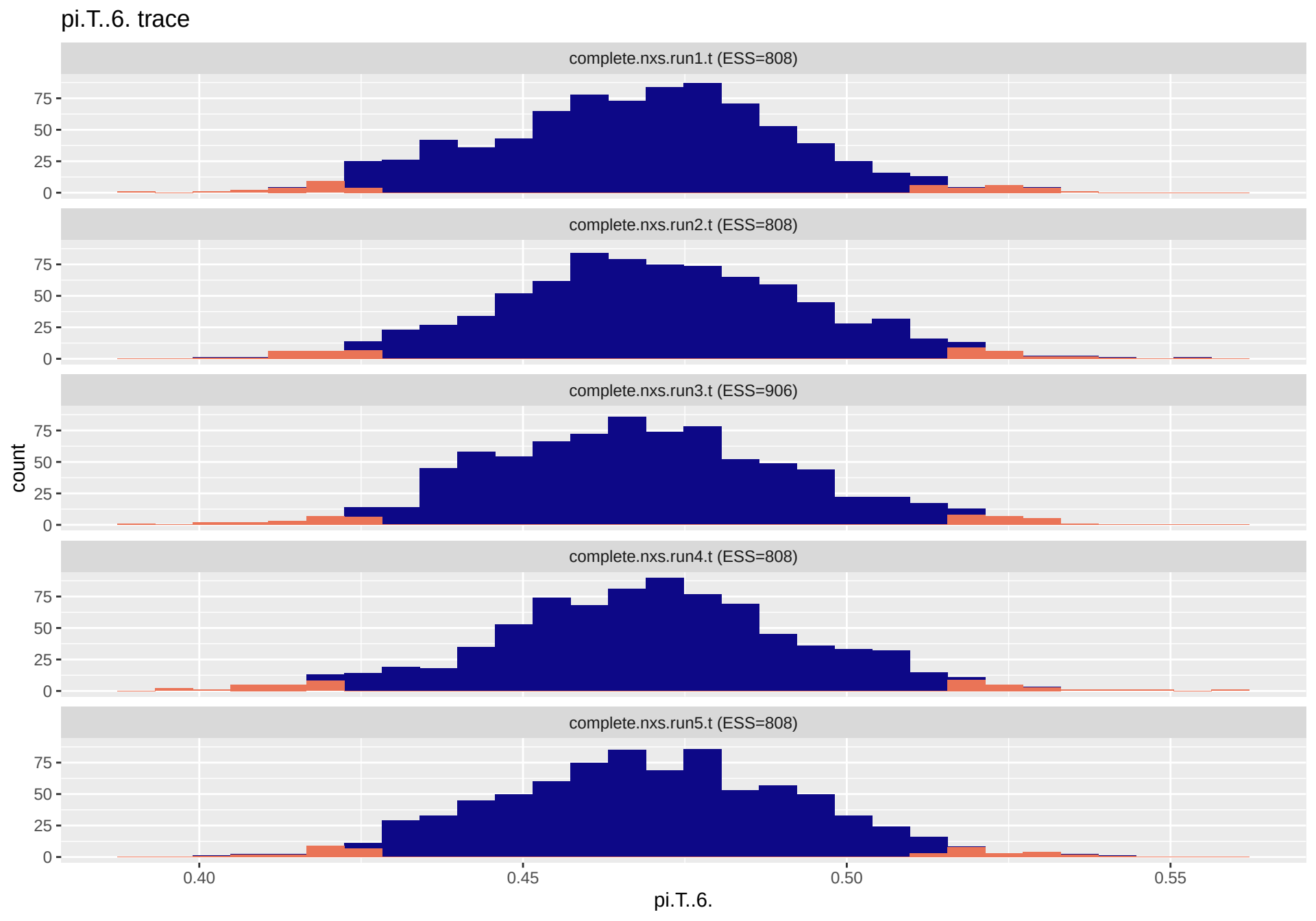

pi.C..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=580)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.C..6.
0.06
0.05
0.04
0.03
2e+06
4e+06
6e+06
8e+06
Generation

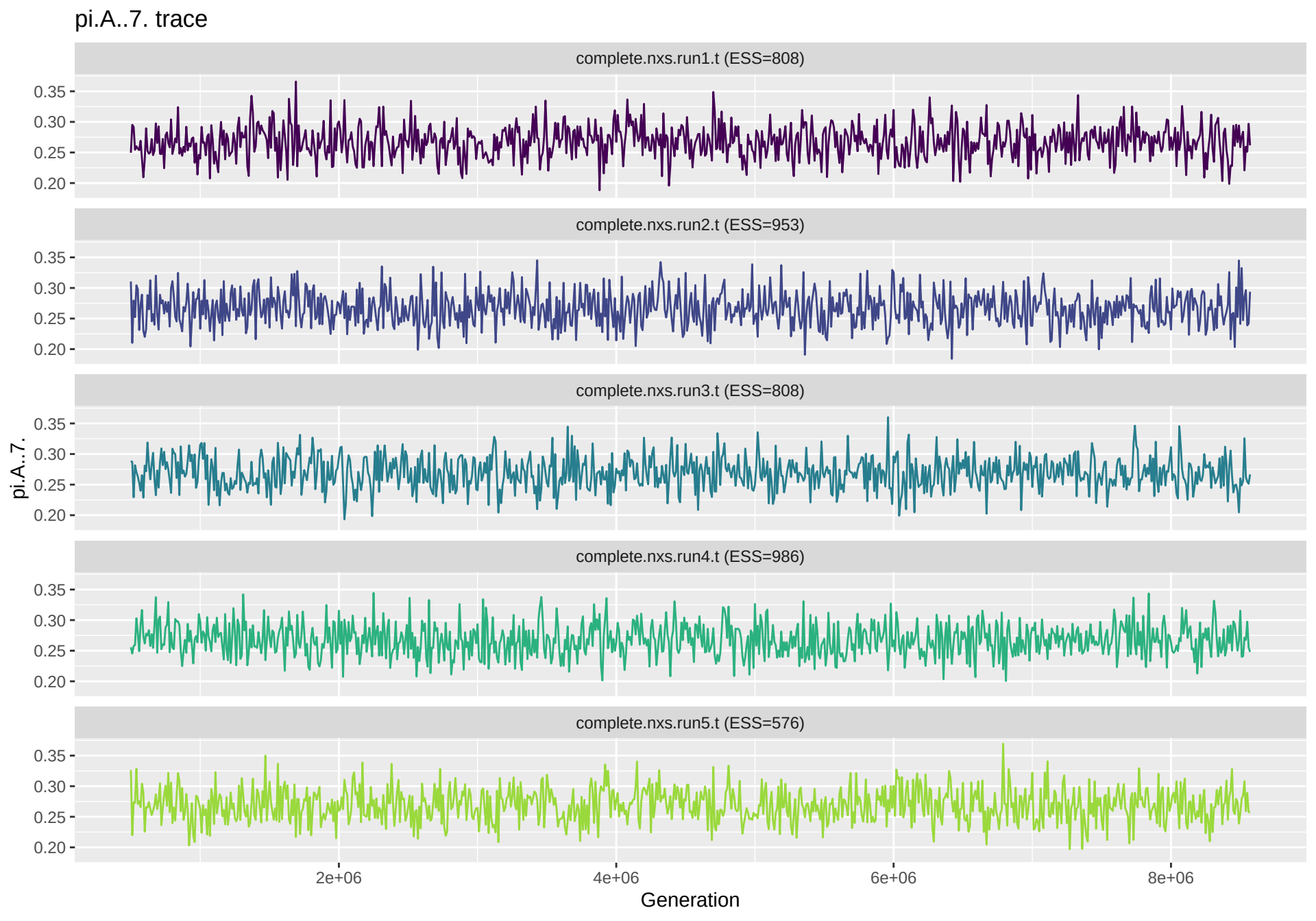

pi.C..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=580)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
20
40
60
80
0.03
0.04
0.05
0.06
pi.C..6.

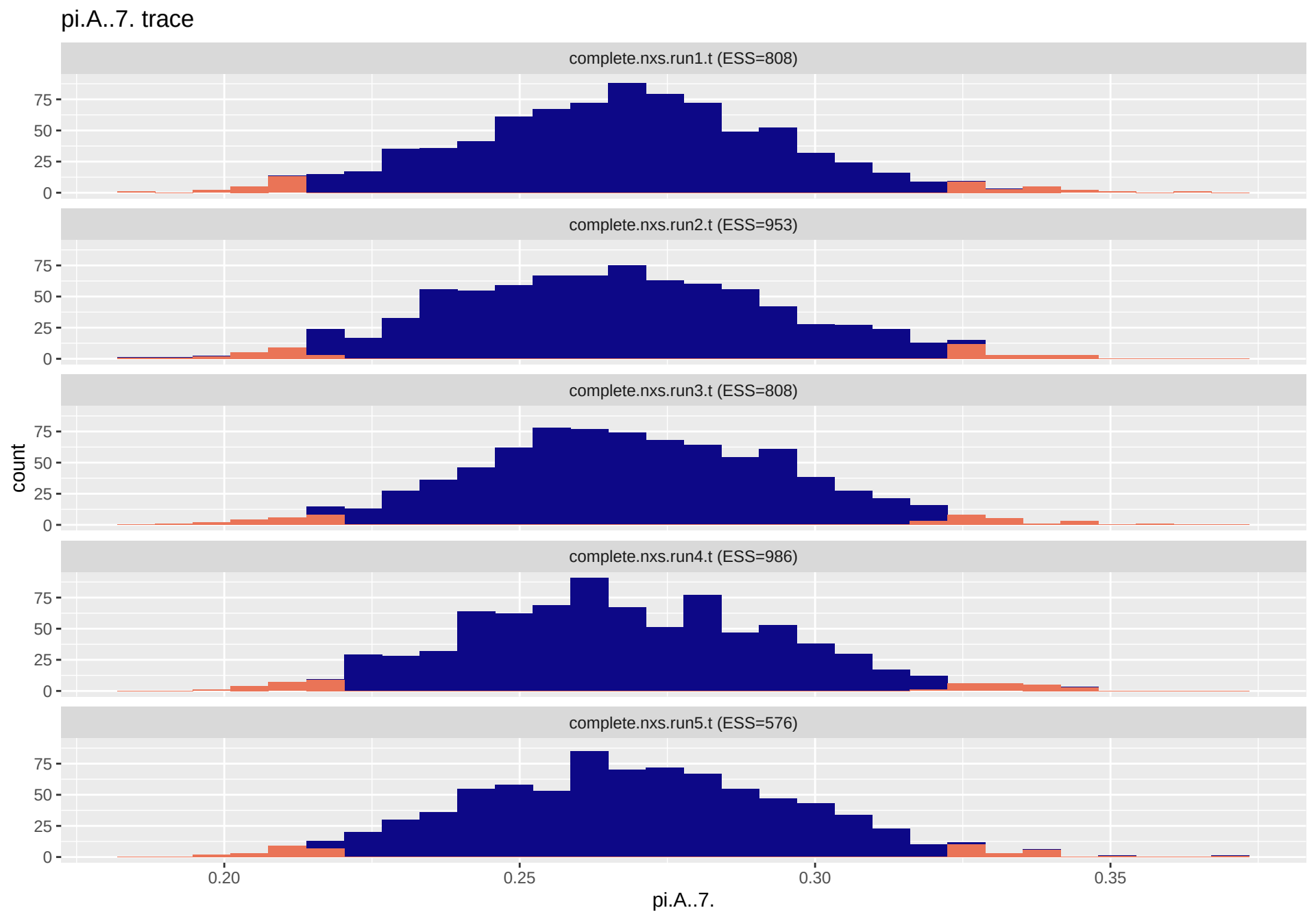

pi.G..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=707)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.200
0.175
0.150
pi.G..6.
2e+06
4e+06
6e+06
8e+06
Generation

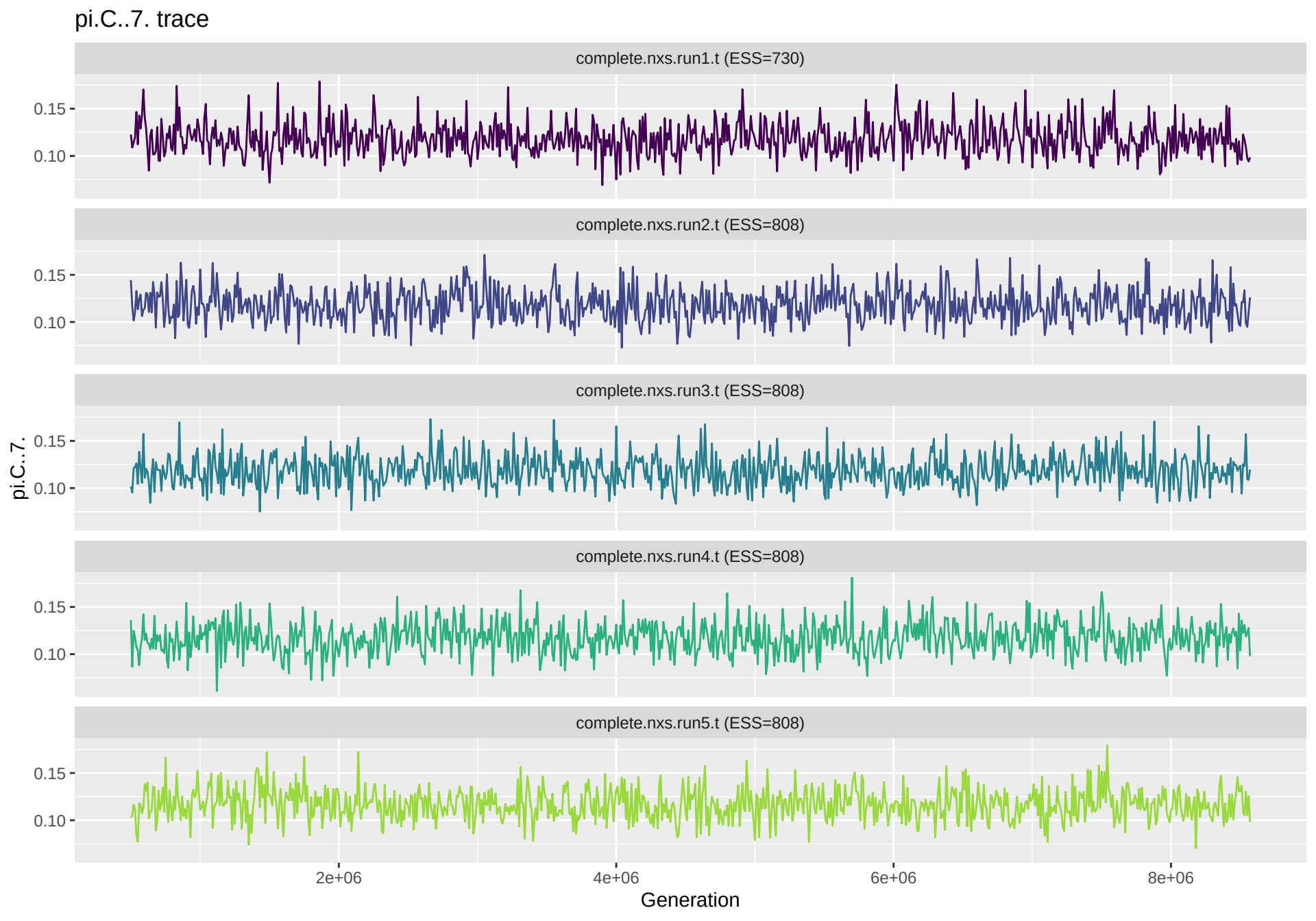

pi.G..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=707)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
75
50
25
0
0.150
0.175
0.200
pi.G..6.

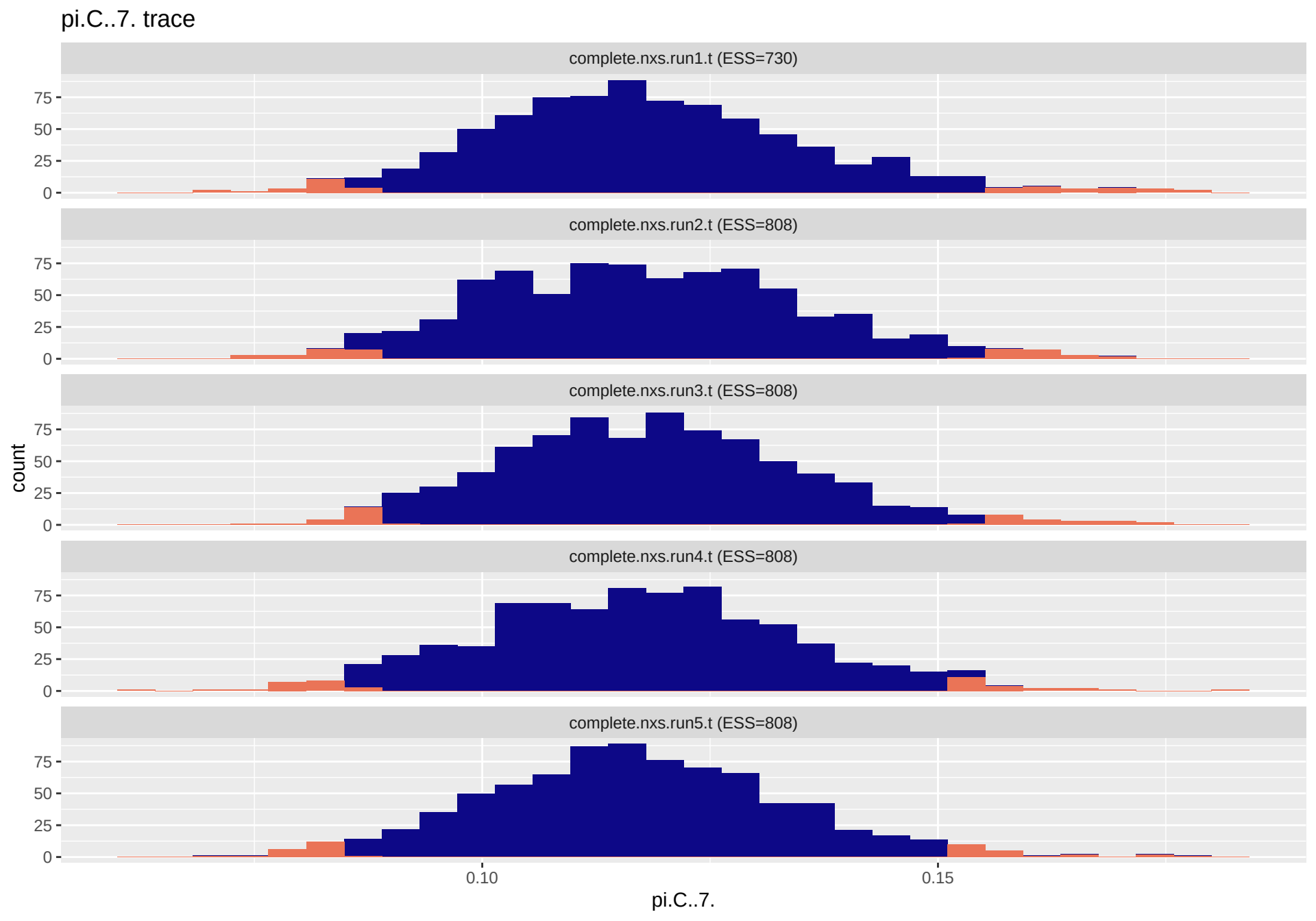

pi.T..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=906)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.T..6.
0.55
0.50
0.45
0.40
2e+06
4e+06
6e+06
8e+06
Generation

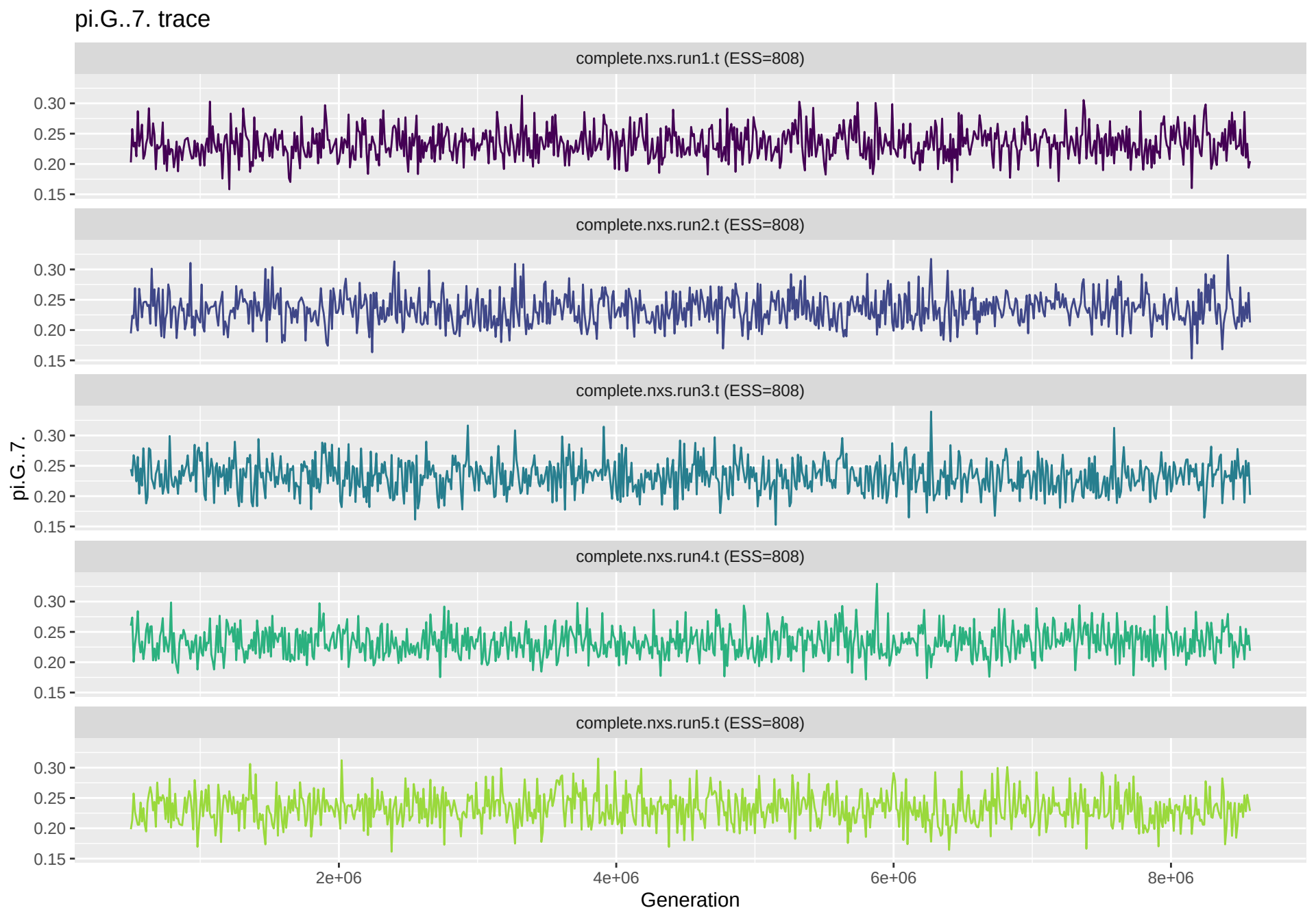

pi.T..6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=906)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.40
0.45
0.50
0.55
pi.T..6.

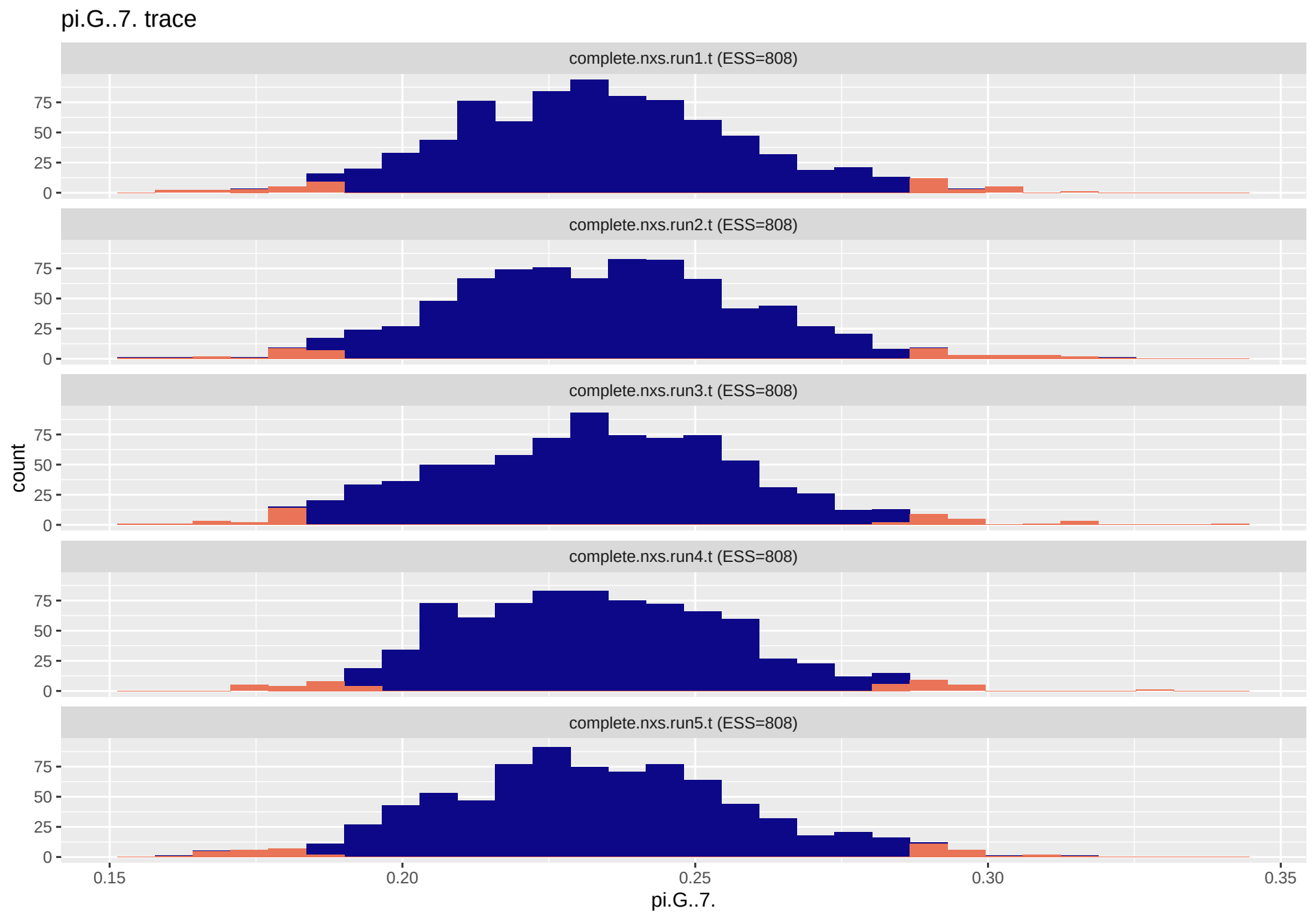

pi.A..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=953)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=986)
complete.nxs.run5.t (ESS=576)
pi.A..7.
0.35
0.30
0.25
0.20
2e+06
4e+06
6e+06
8e+06
Generation

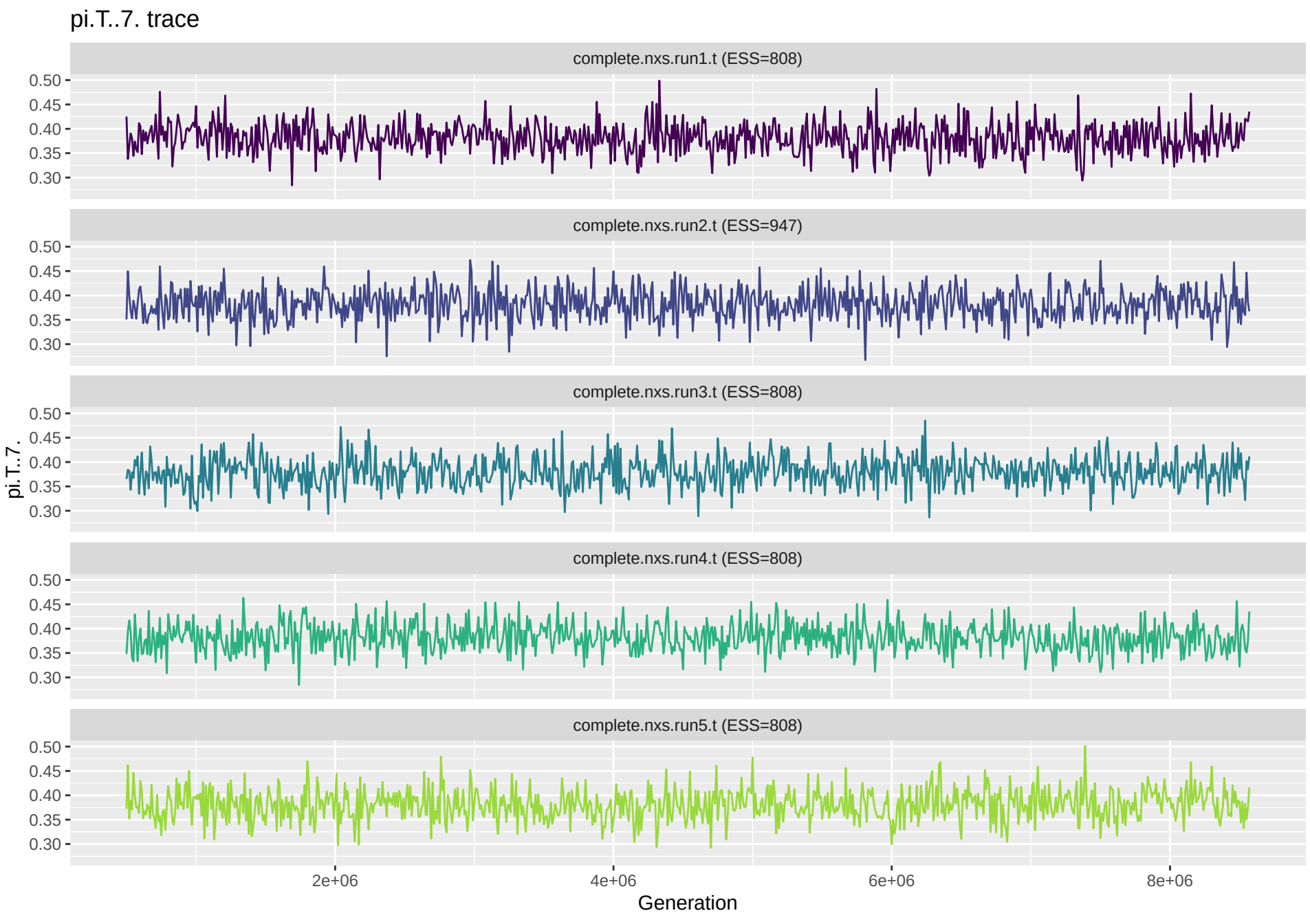

pi.A..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=953)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=986)
complete.nxs.run5.t (ESS=576)
count
0
25
50
75
0.20
0.25
0.30
0.35
pi.A..7.

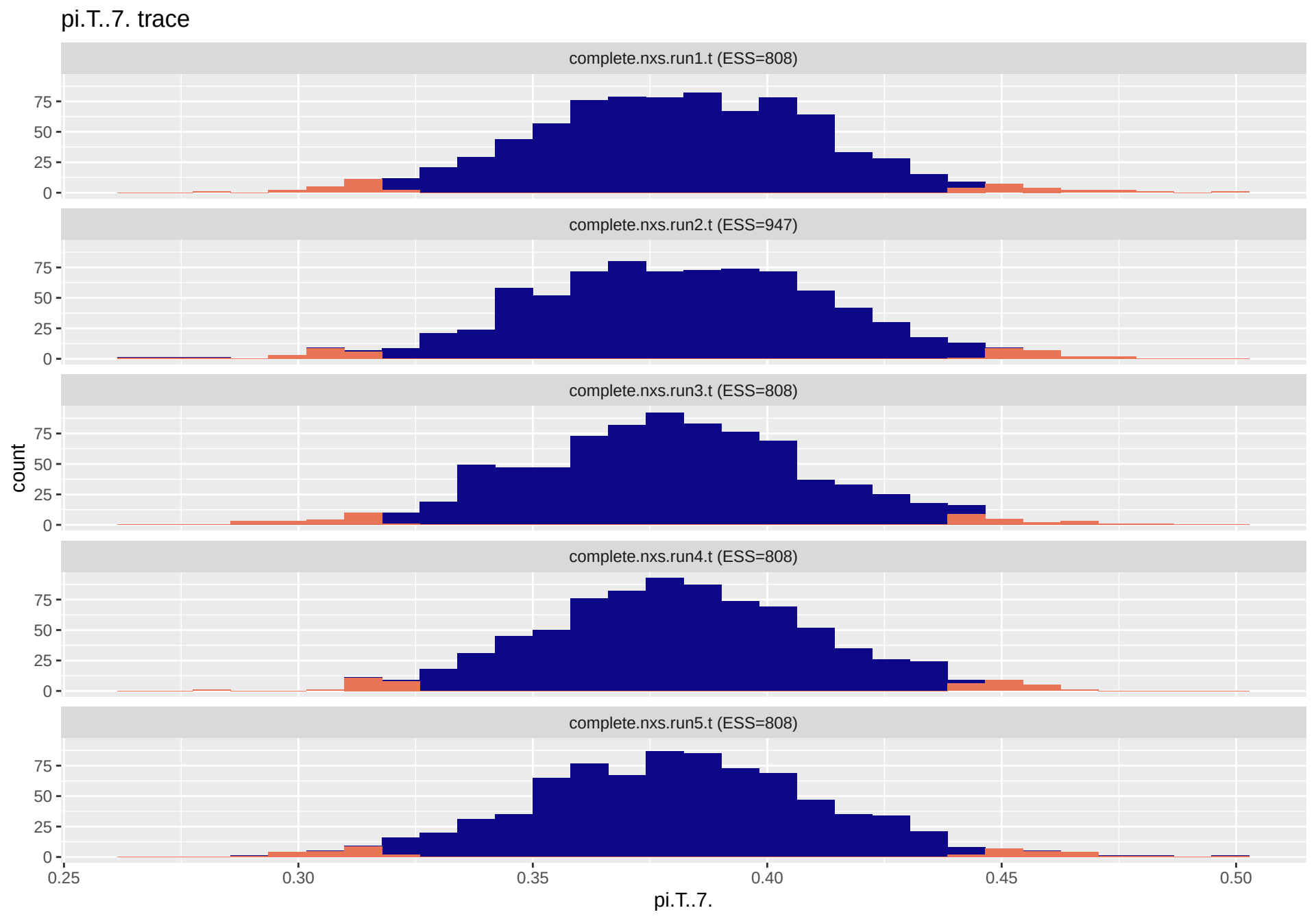

pi.C..7. trace
complete.nxs.run1.t (ESS=730)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.15
0.10
pi.C..7.
2e+06
4e+06
6e+06
8e+06
Generation

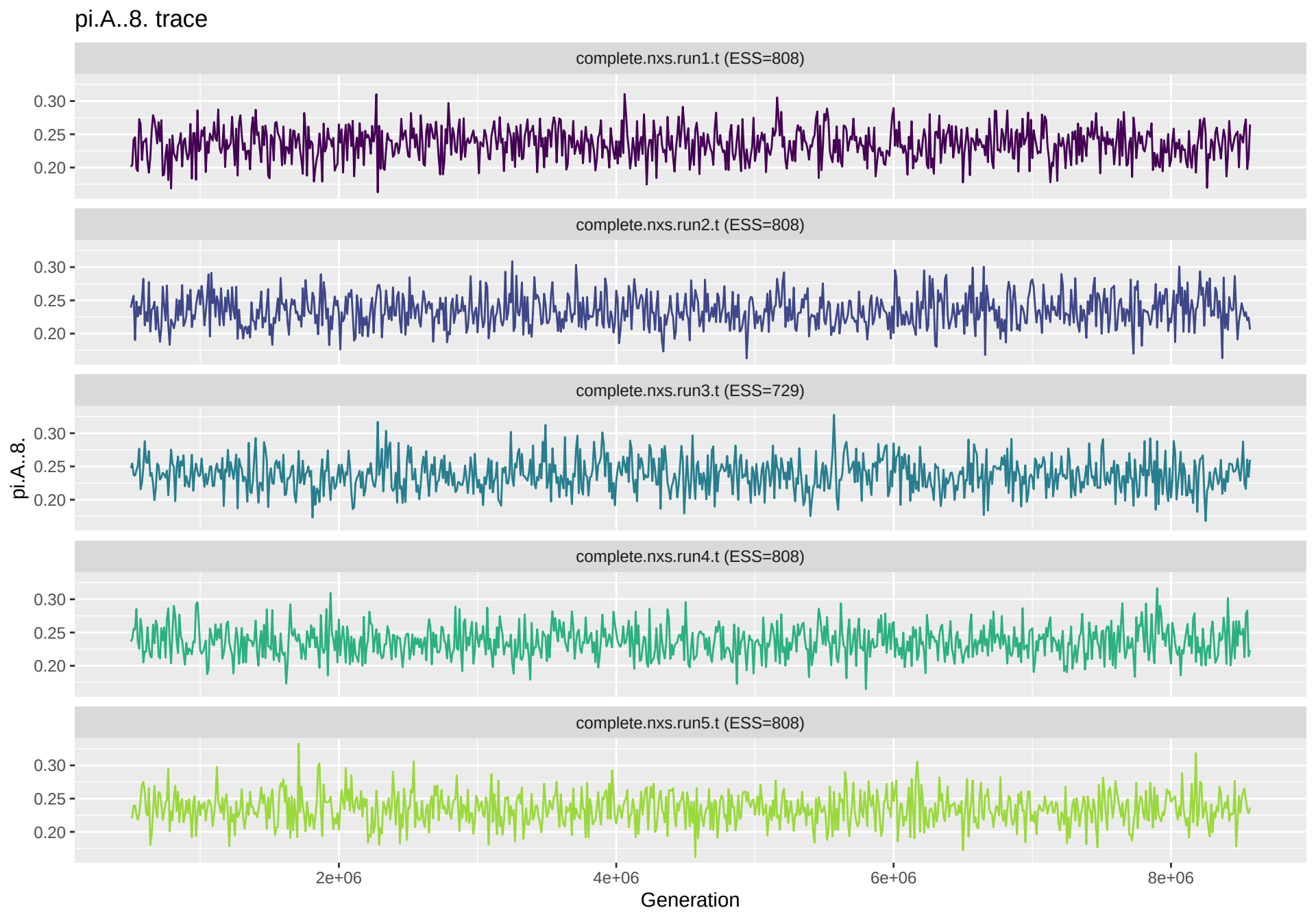

pi.C..7. trace
complete.nxs.run1.t (ESS=730)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.10
0.15
pi.C..7.

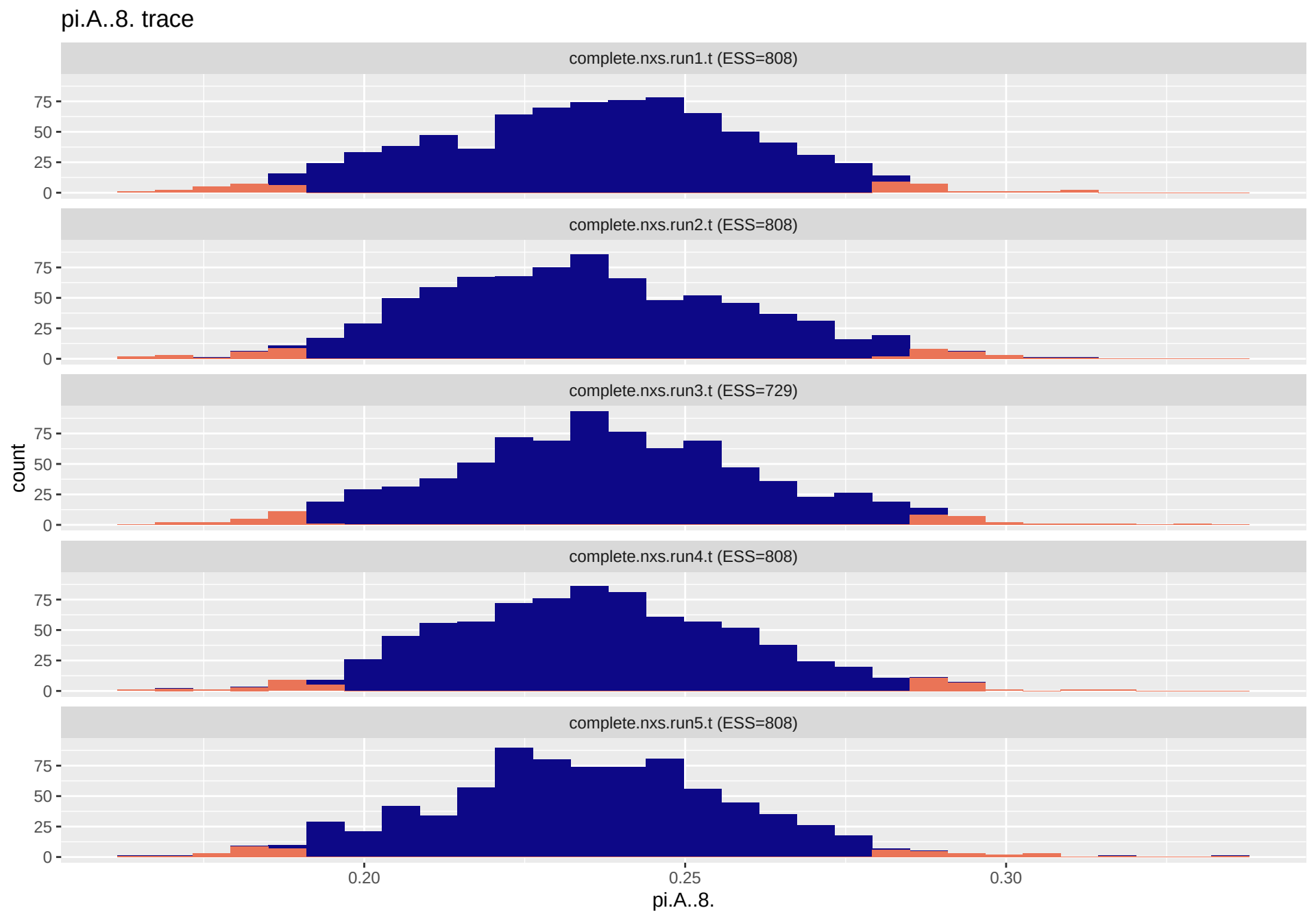

pi.G..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.G..7.
0.30
0.25
0.20
0.15
2e+06
4e+06
6e+06
8e+06
Generation

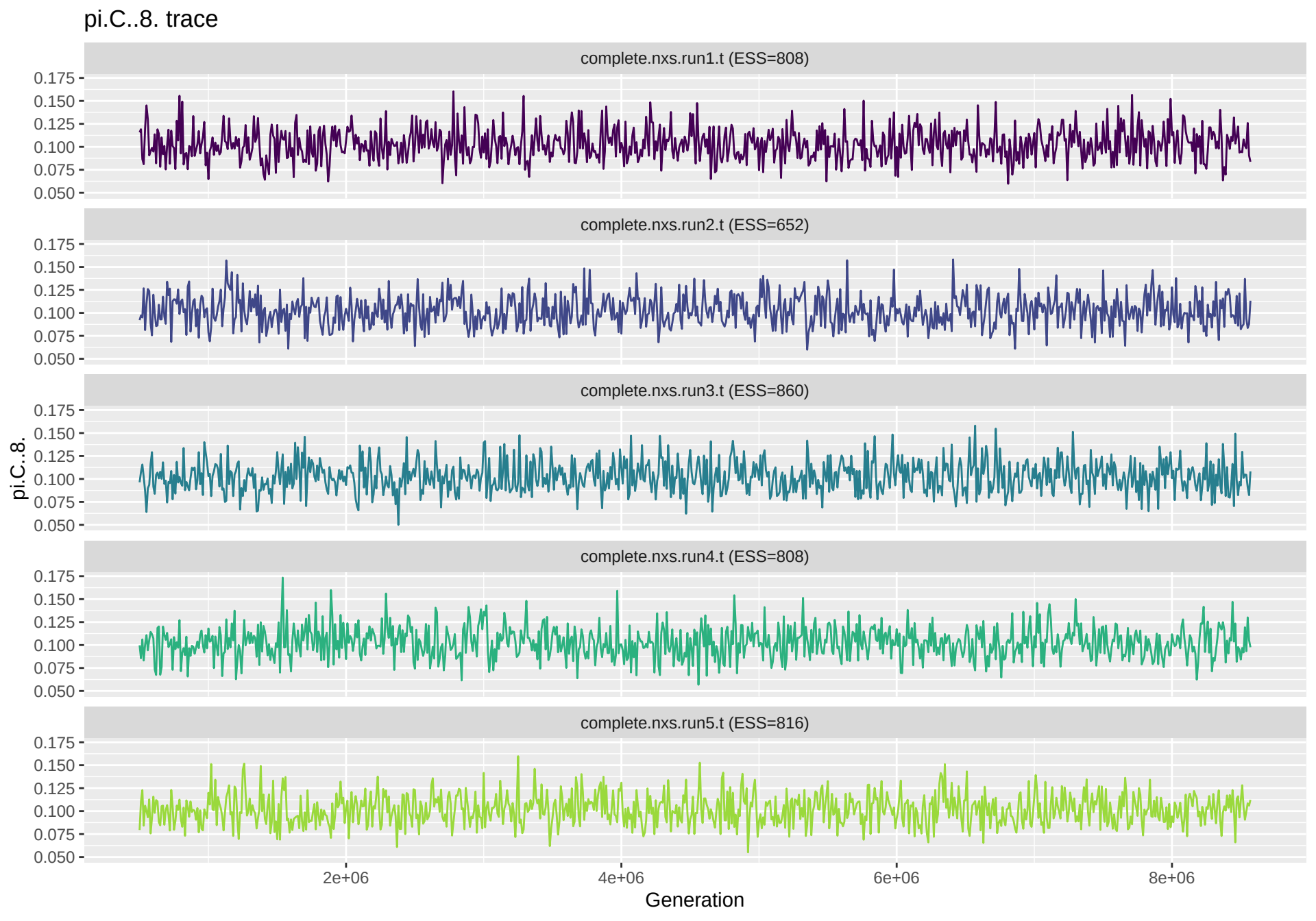

pi.G..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.15
0.20
0.25
0.30
0.35
pi.G..7.

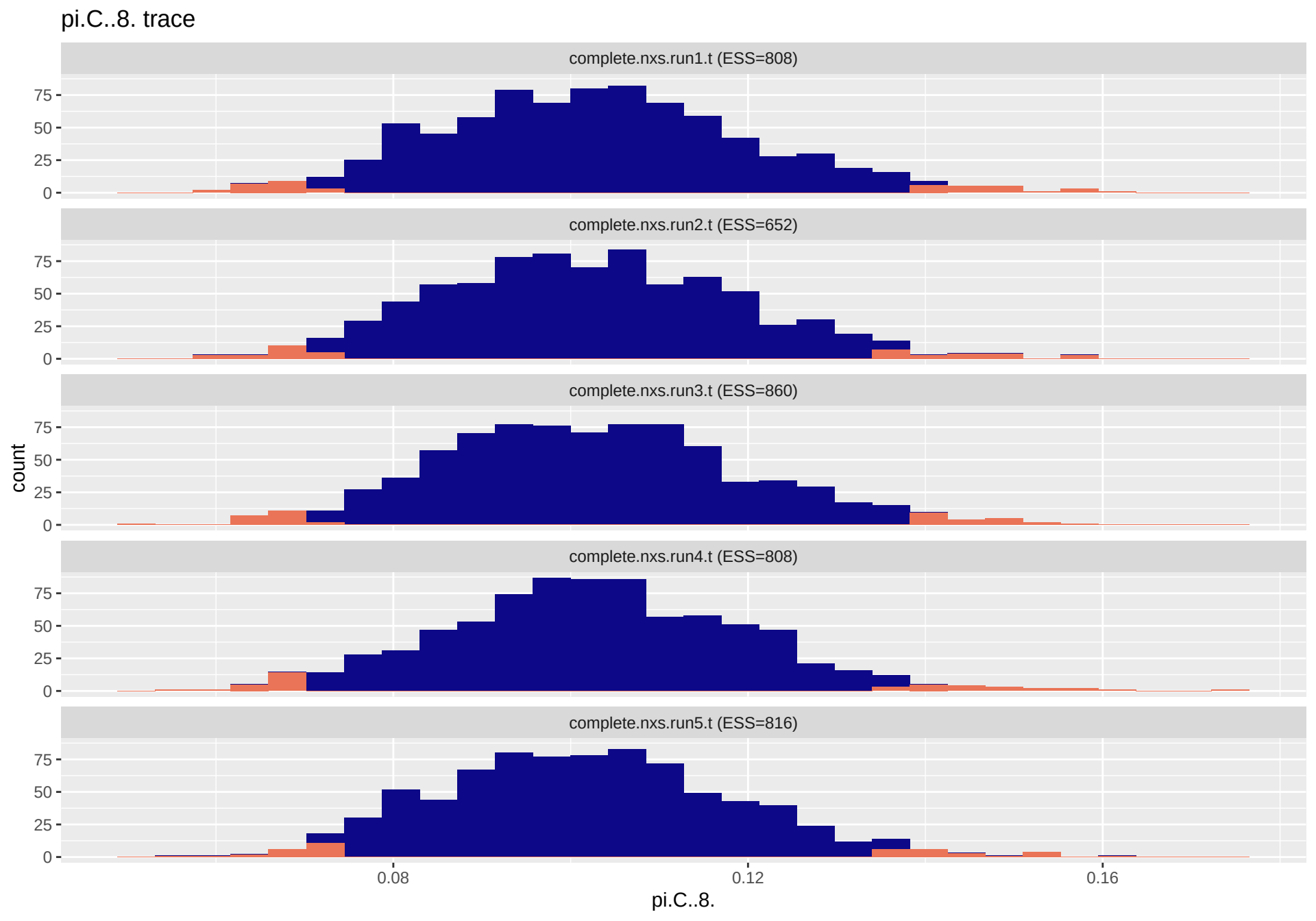

pi.T..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=947)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.50
0.45
0.40
0.35
0.30
pi.T..7.
2e+06
4e+06
6e+06
8e+06
Generation

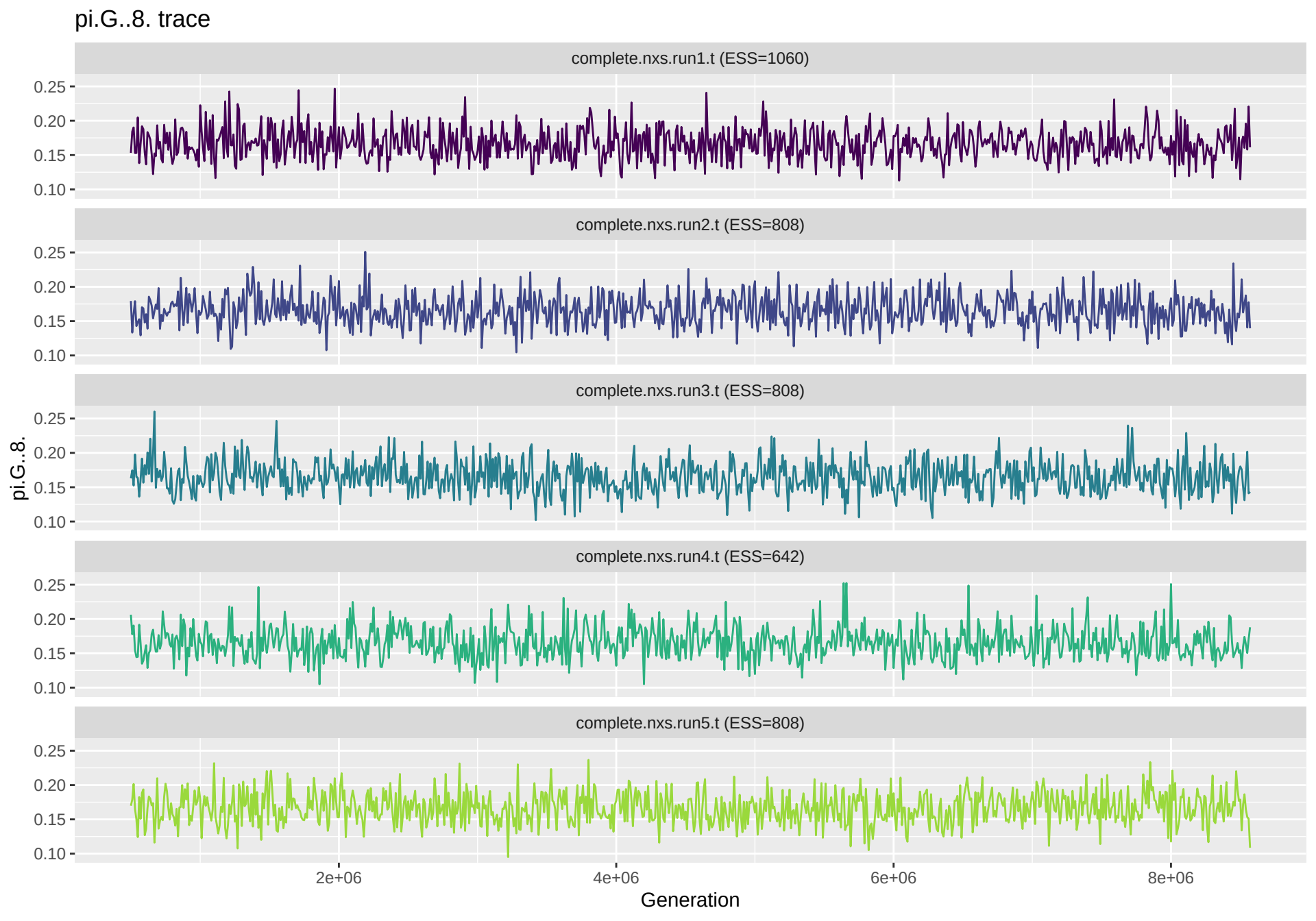

pi.T..7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=947)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.25
0.30
0.35
0.40
0.45
0.50
pi.T..7.

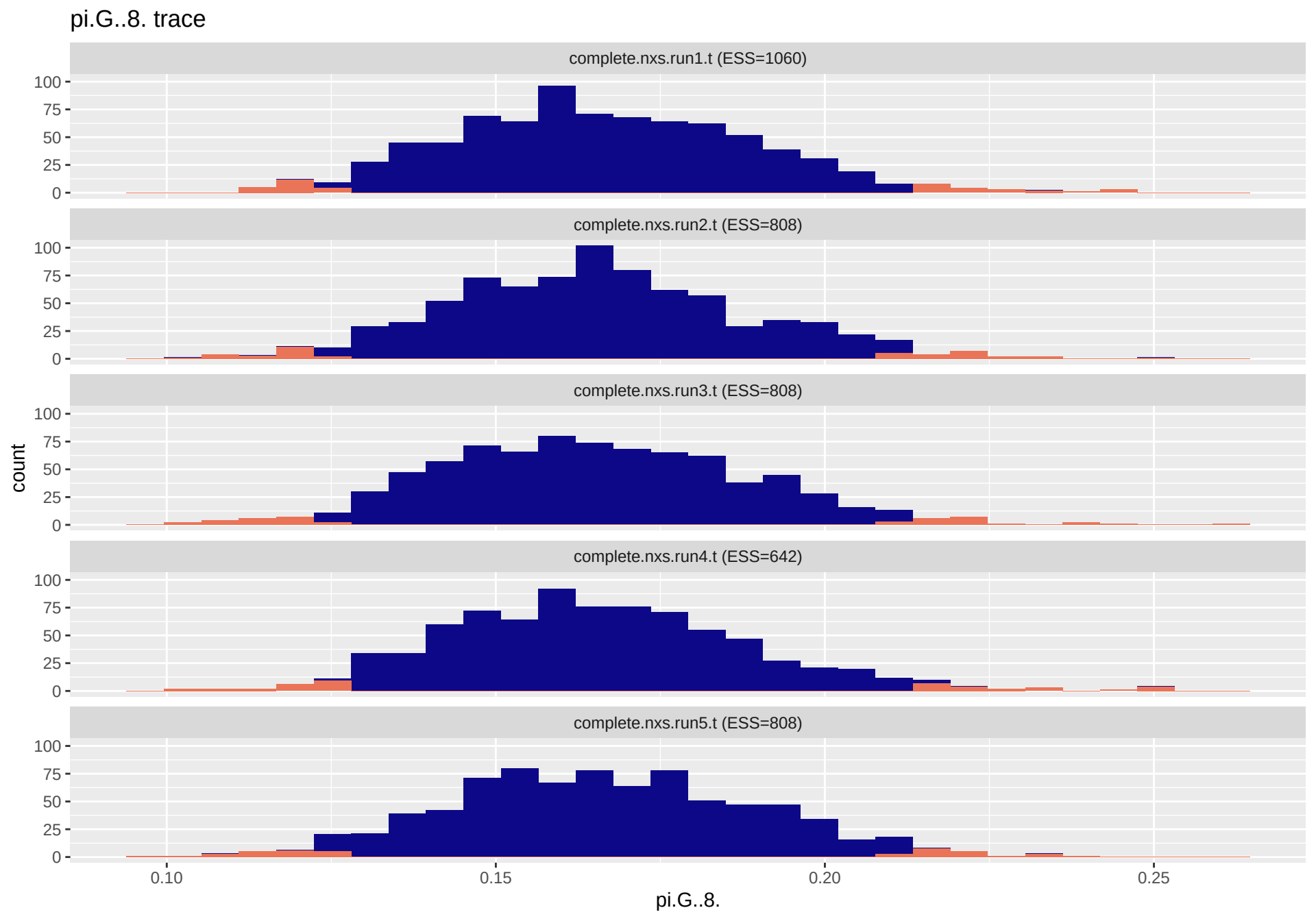

pi.A..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
0.30
0.25
0.20
pi.A..8.
2e+06
4e+06
6e+06
8e+06
Generation

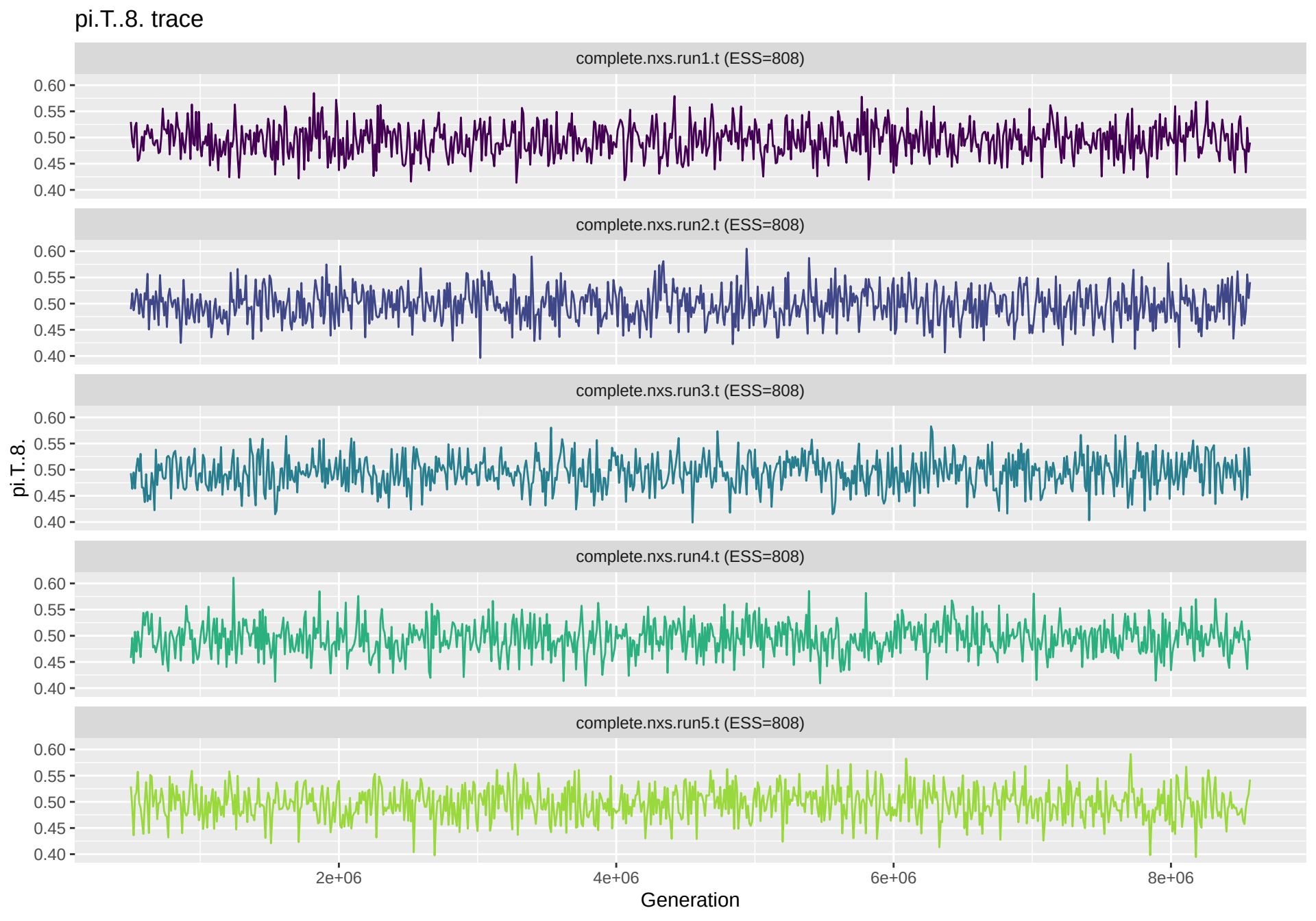

pi.A..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=729)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.20
0.25
0.30
pi.A..8.

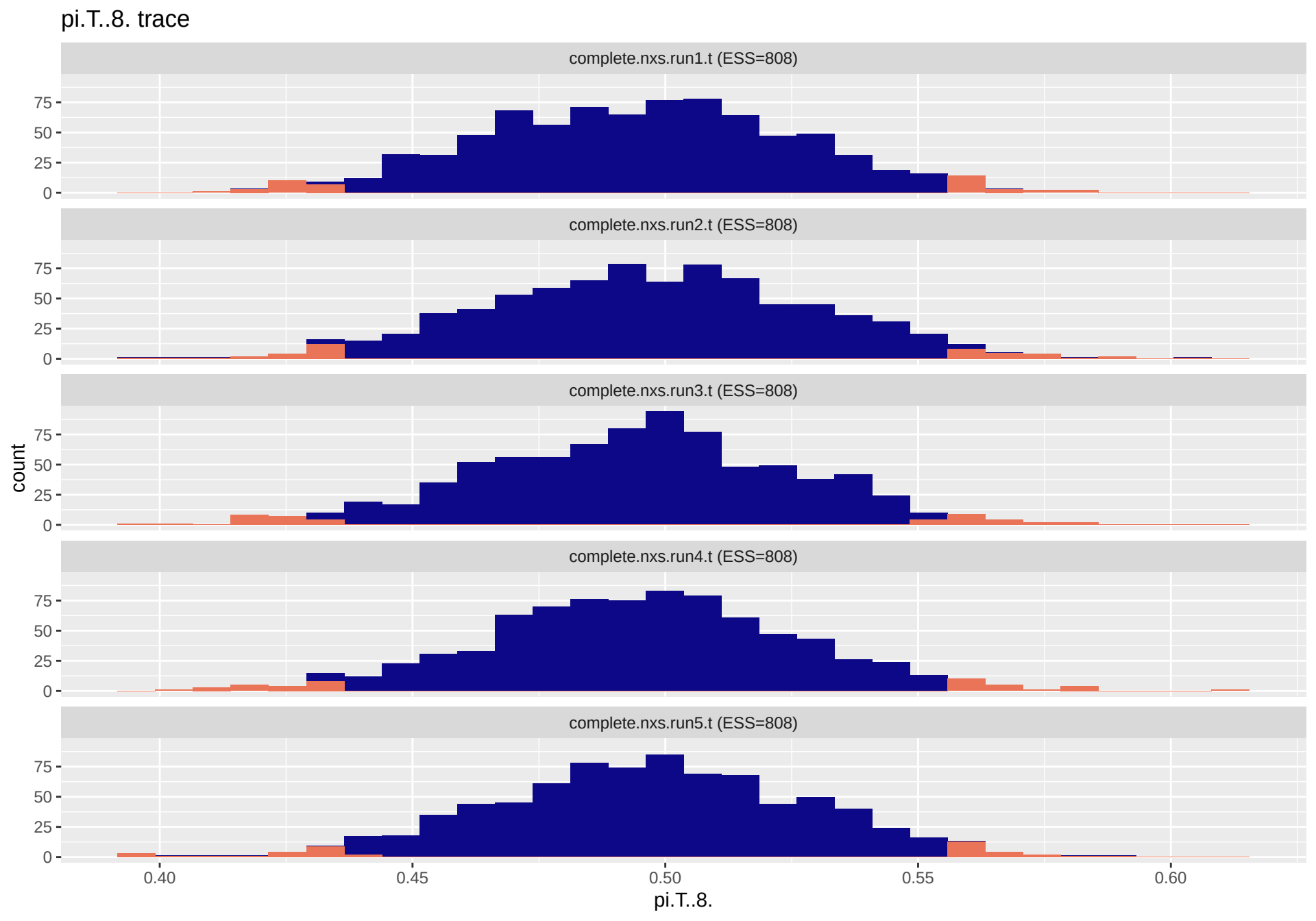

pi.C..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=652)
complete.nxs.run3.t (ESS=860)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=816)
pi.C..8.
0.175
0.150
0.125
0.100
0.075
0.050
2e+06
4e+06
6e+06
8e+06
Generation


pi.C..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=652)
complete.nxs.run3.t (ESS=860)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=816)
count
0
25
50
75
0.08
0.12
0.16
pi.C..8.

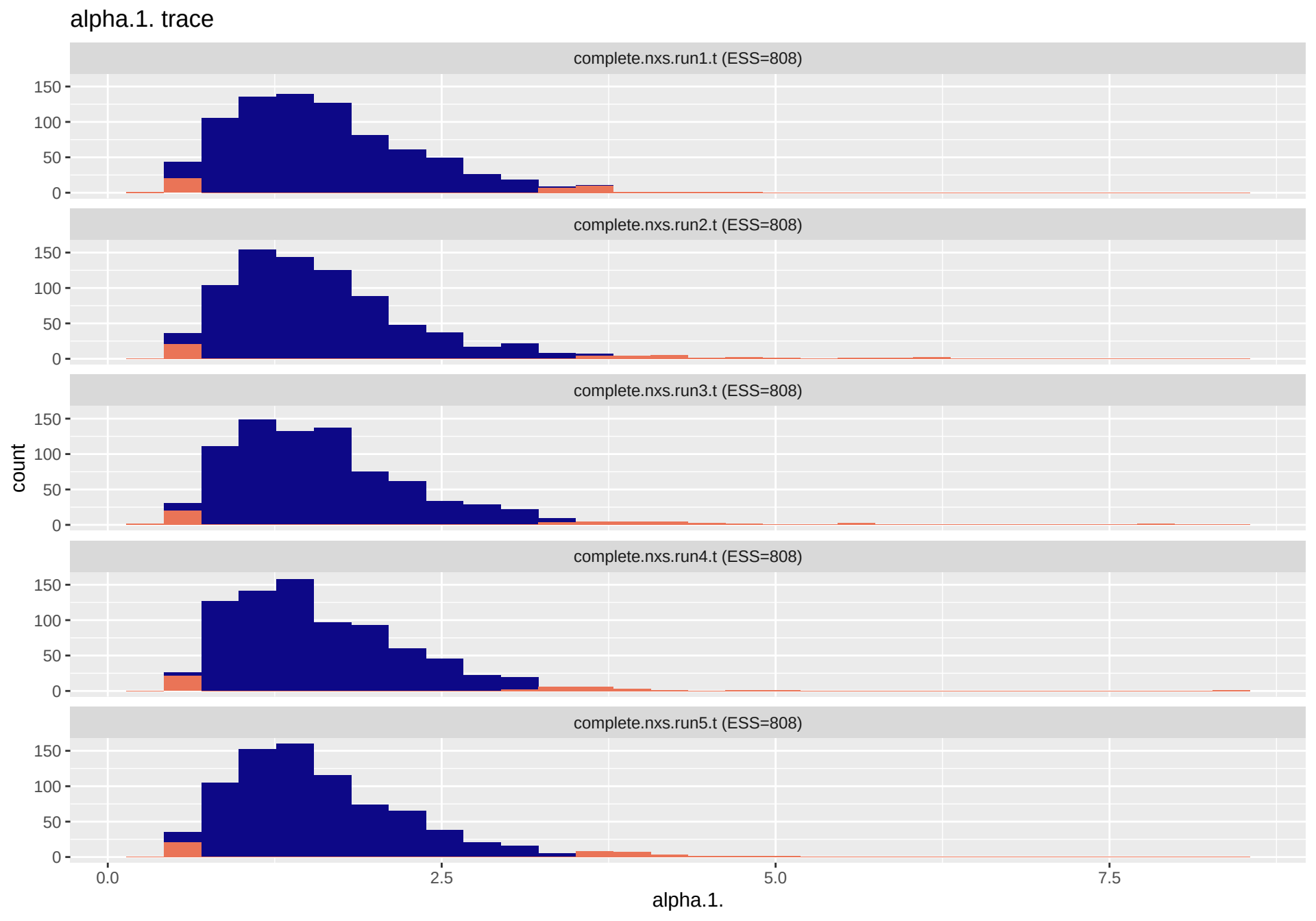

pi.G..8. trace
complete.nxs.run1.t (ESS=1060)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=642)
complete.nxs.run5.t (ESS=808)
pi.G..8.
0.25
0.20
0.15
0.10
2e+06
4e+06
6e+06
8e+06
Generation

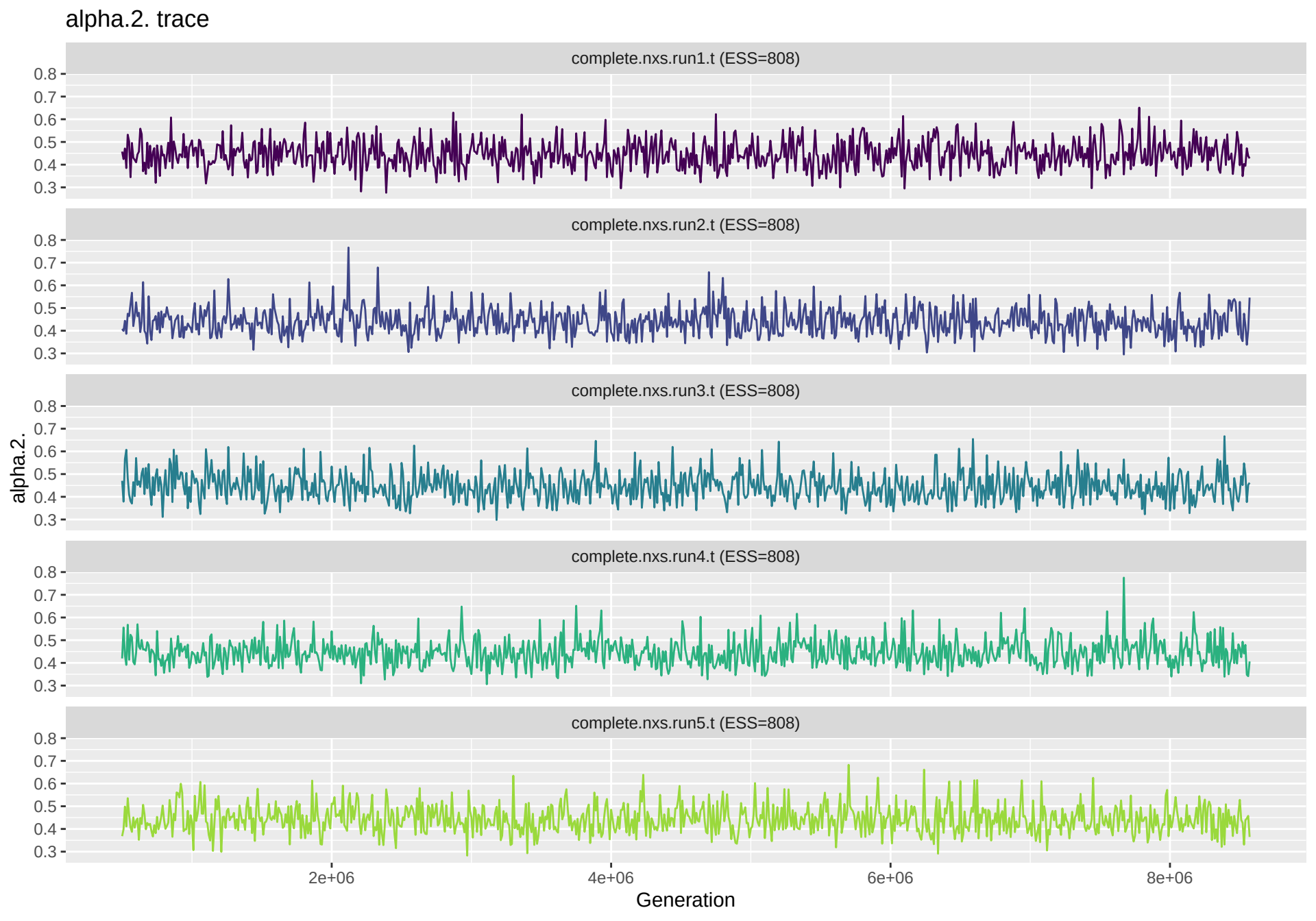

pi.G..8. trace
complete.nxs.run1.t (ESS=1060)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=642)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.10
0.15
0.20
0.25
pi.G..8.

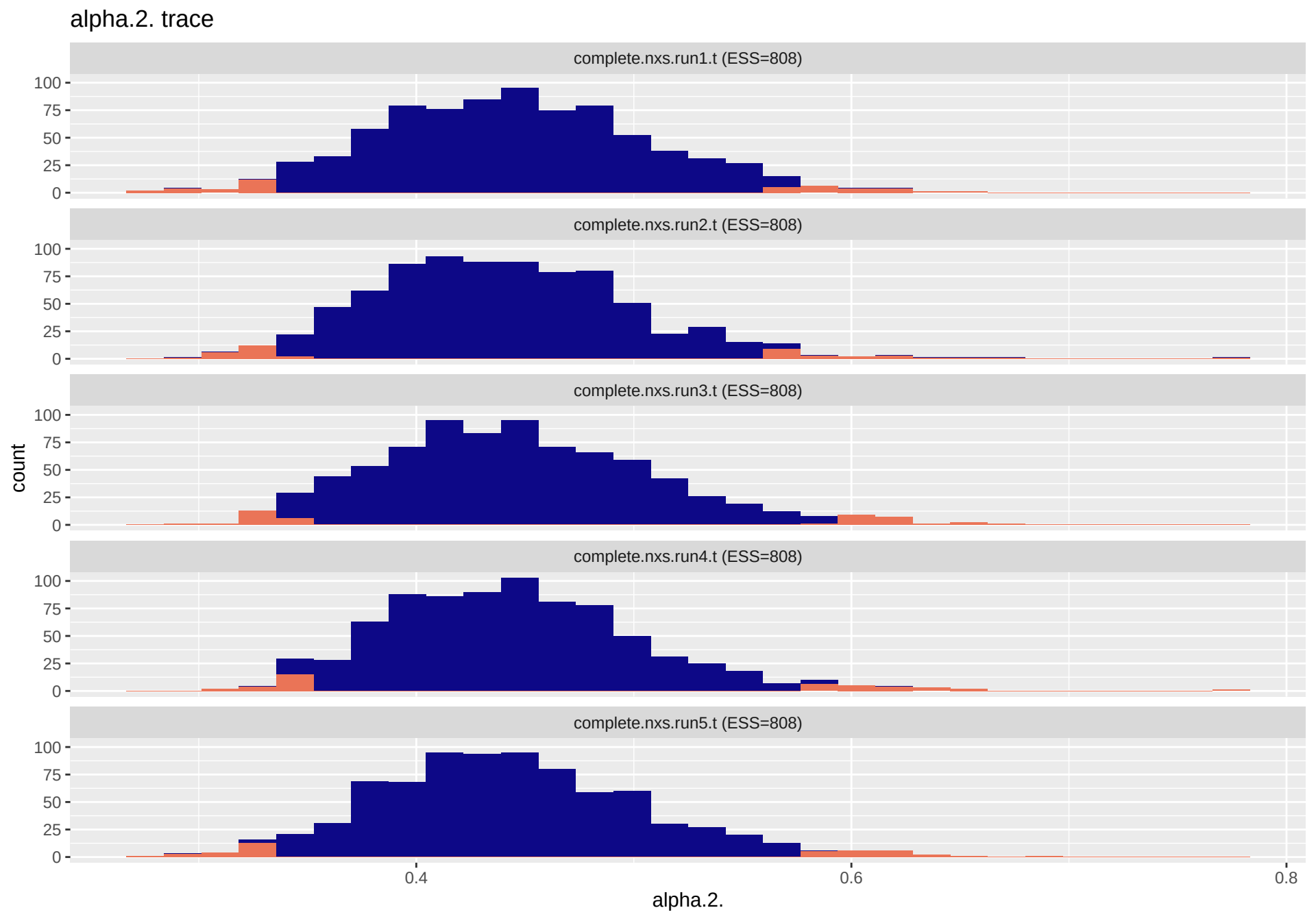

pi.T..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pi.T..8.
0.60
0.55
0.50
0.45
0.40
2e+06
4e+06
6e+06
8e+06
Generation


pi.T..8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.40
0.45
0.50
0.55
0.60
pi.T..8.

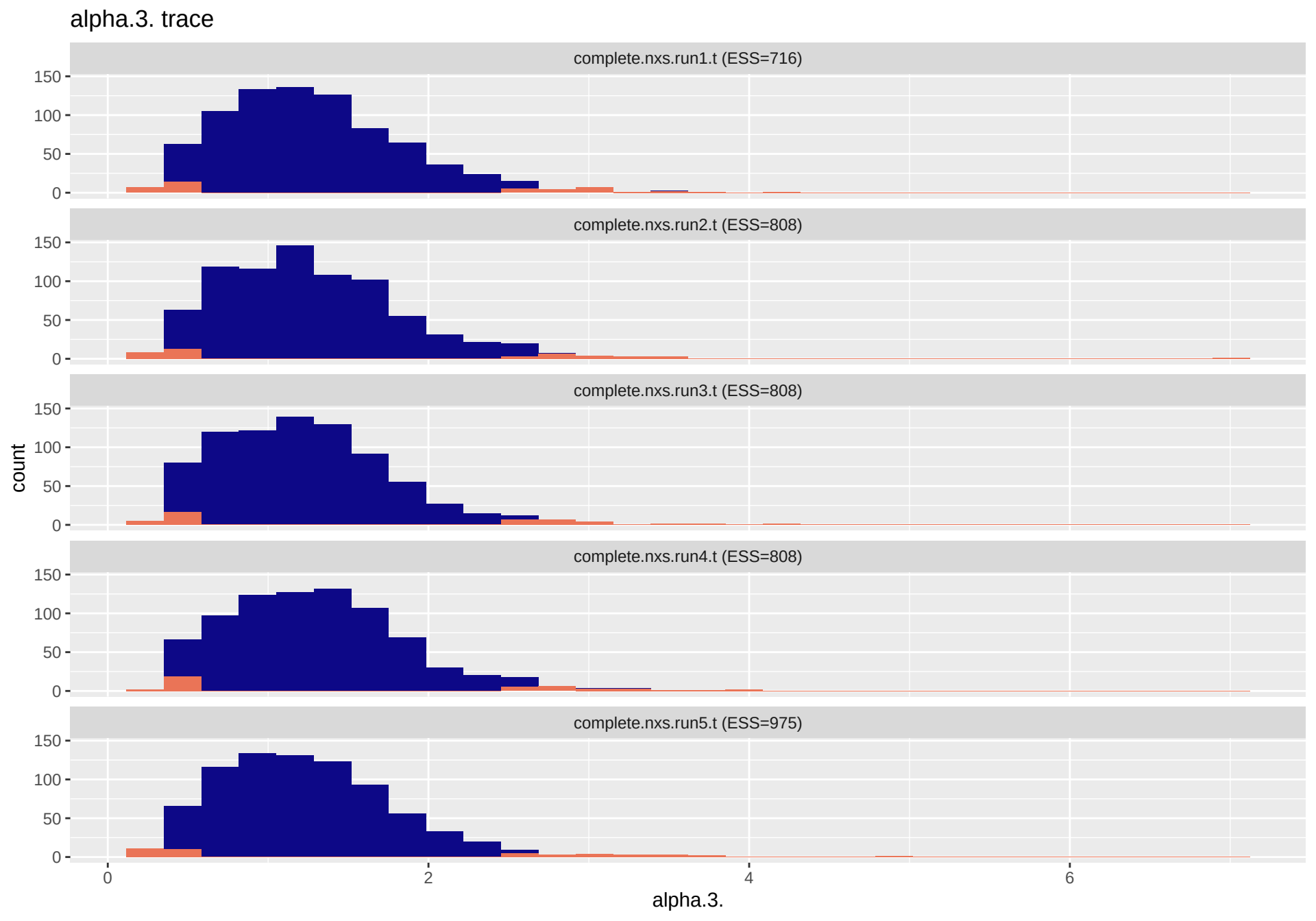
alpha.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
alpha.1.
0
2
4
6
8
2e+06
4e+06
6e+06
8e+06
Generation


alpha.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
50
100
150
0.0
2.5
5.0
7.5
alpha.1.

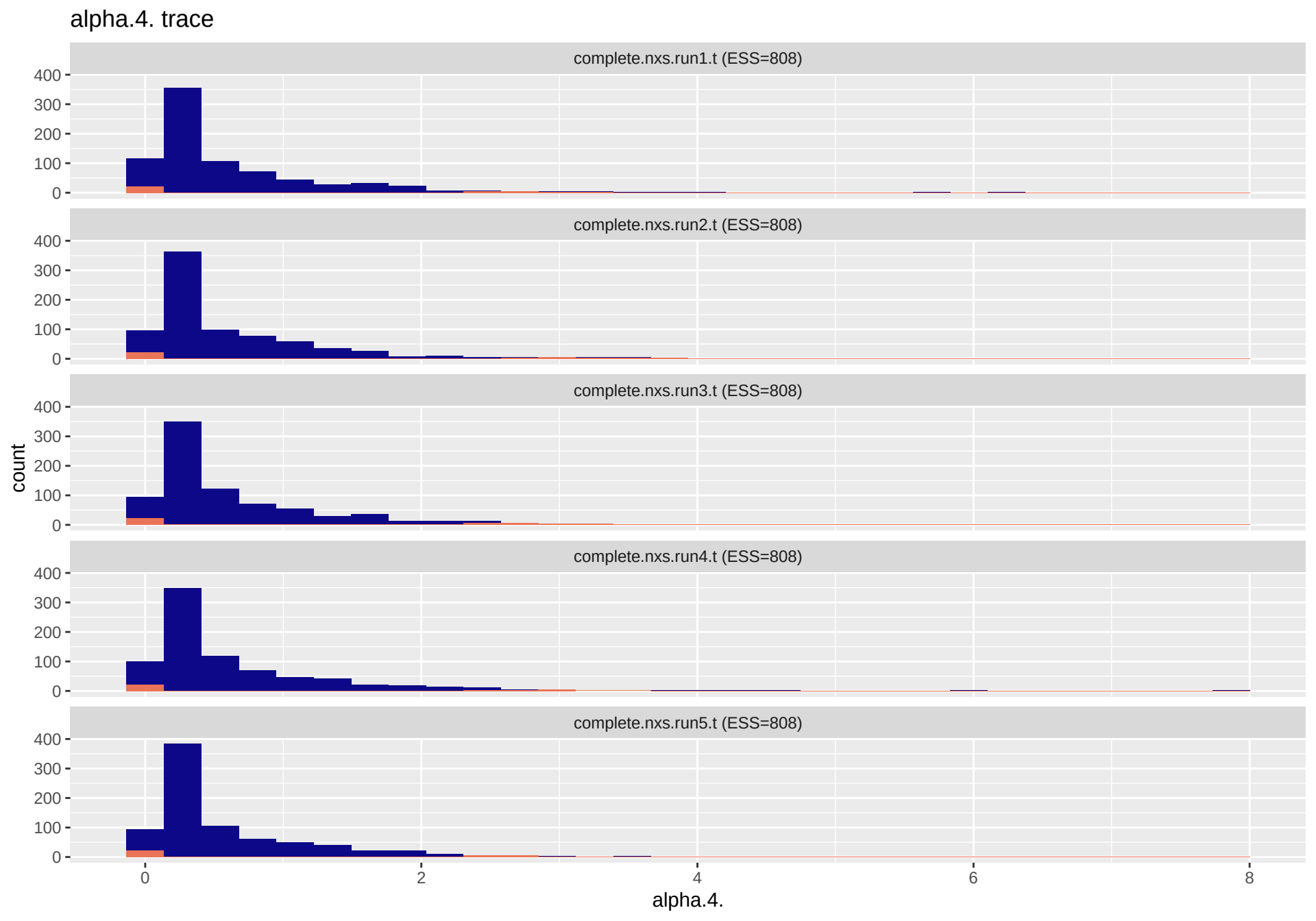

alpha.2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
alpha.2.
0.8
0.7
0.6
0.5
0.4
0.3
2e+06
4e+06
6e+06
8e+06
Generation

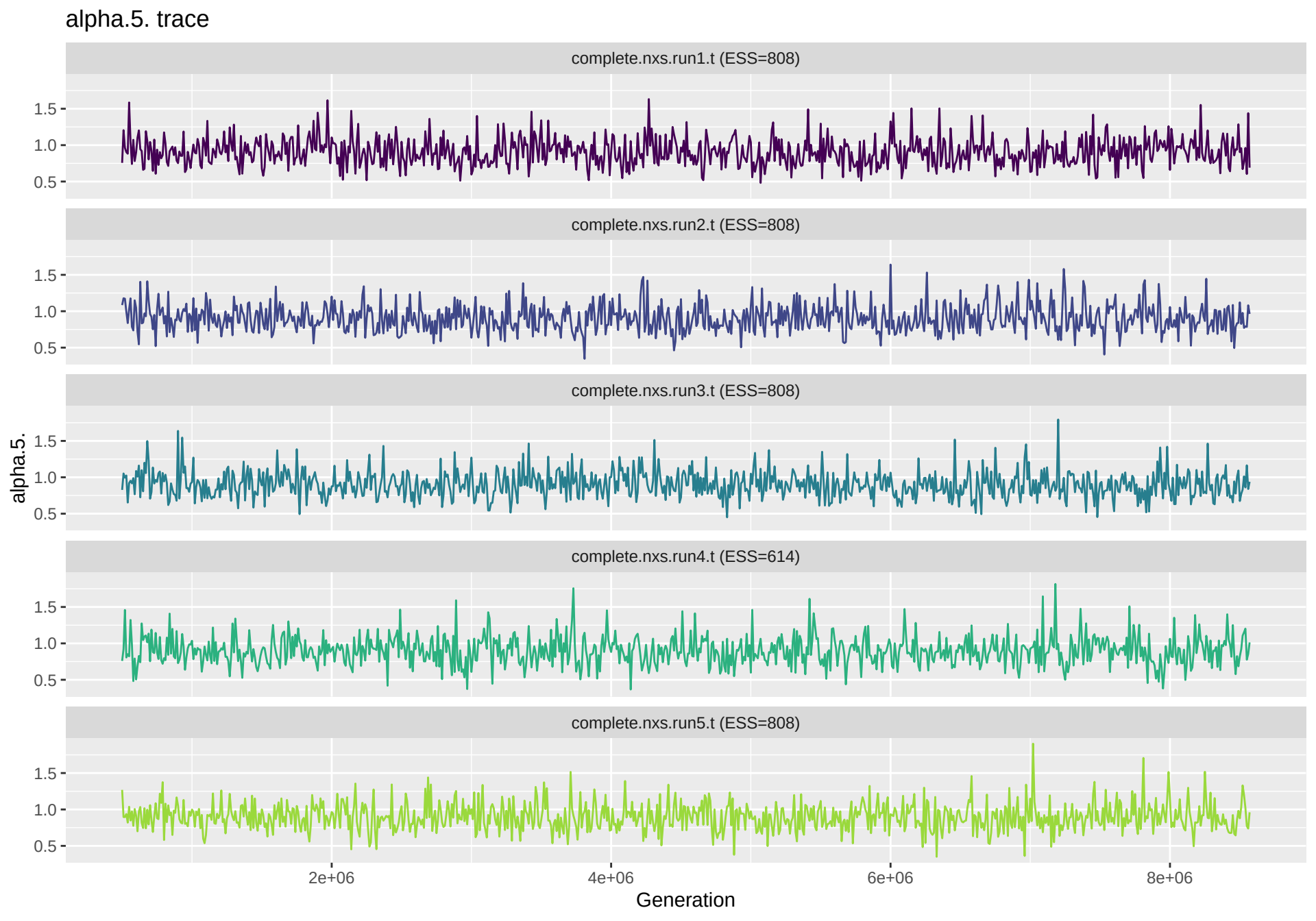

alpha.2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
100
75
50
25
0
0.4
0.6
0.8
alpha.2.

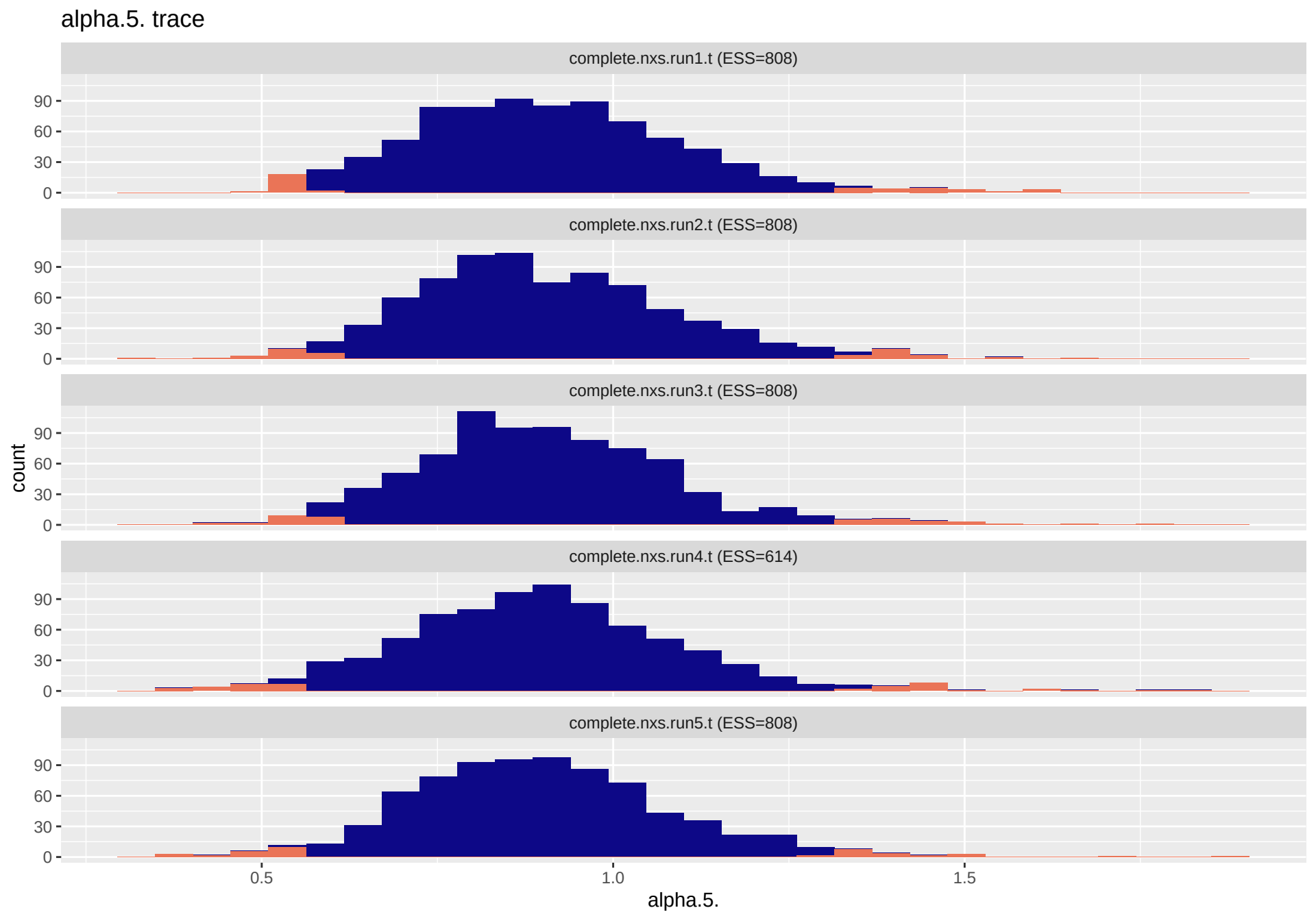
alpha.3. trace
complete.nxs.run1.t (ESS=716)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=975)
alpha.3.
0
2
4
6
2e+06
4e+06
6e+06
8e+06
Generation

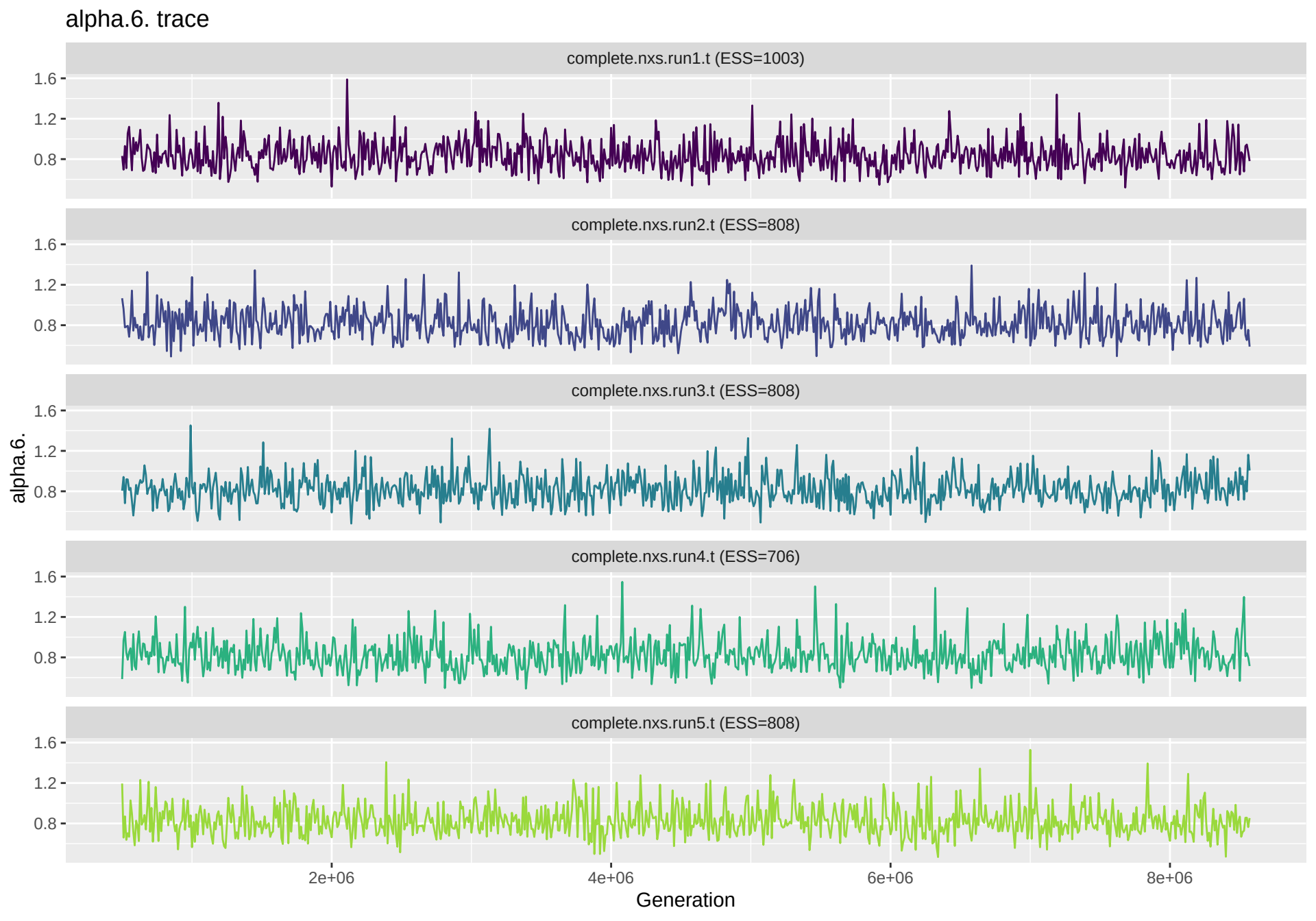

alpha.3. trace
complete.nxs.run1.t (ESS=716)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=975)
count
0
50
100
150
0
2
4
6
alpha.3.

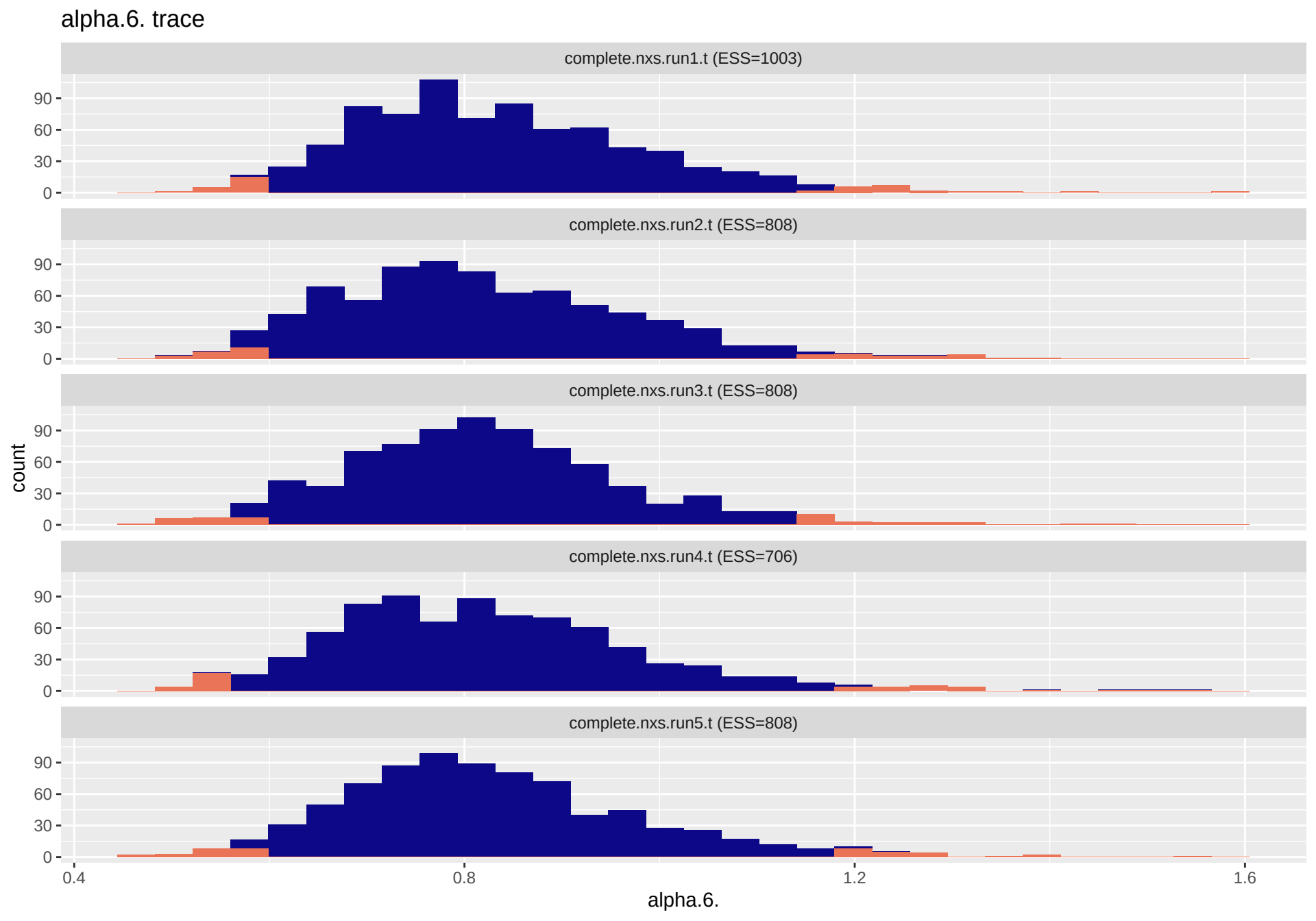
alpha.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
alpha.4.
0
2
4
6
8
2e+06
4e+06
6e+06
8e+06
Generation

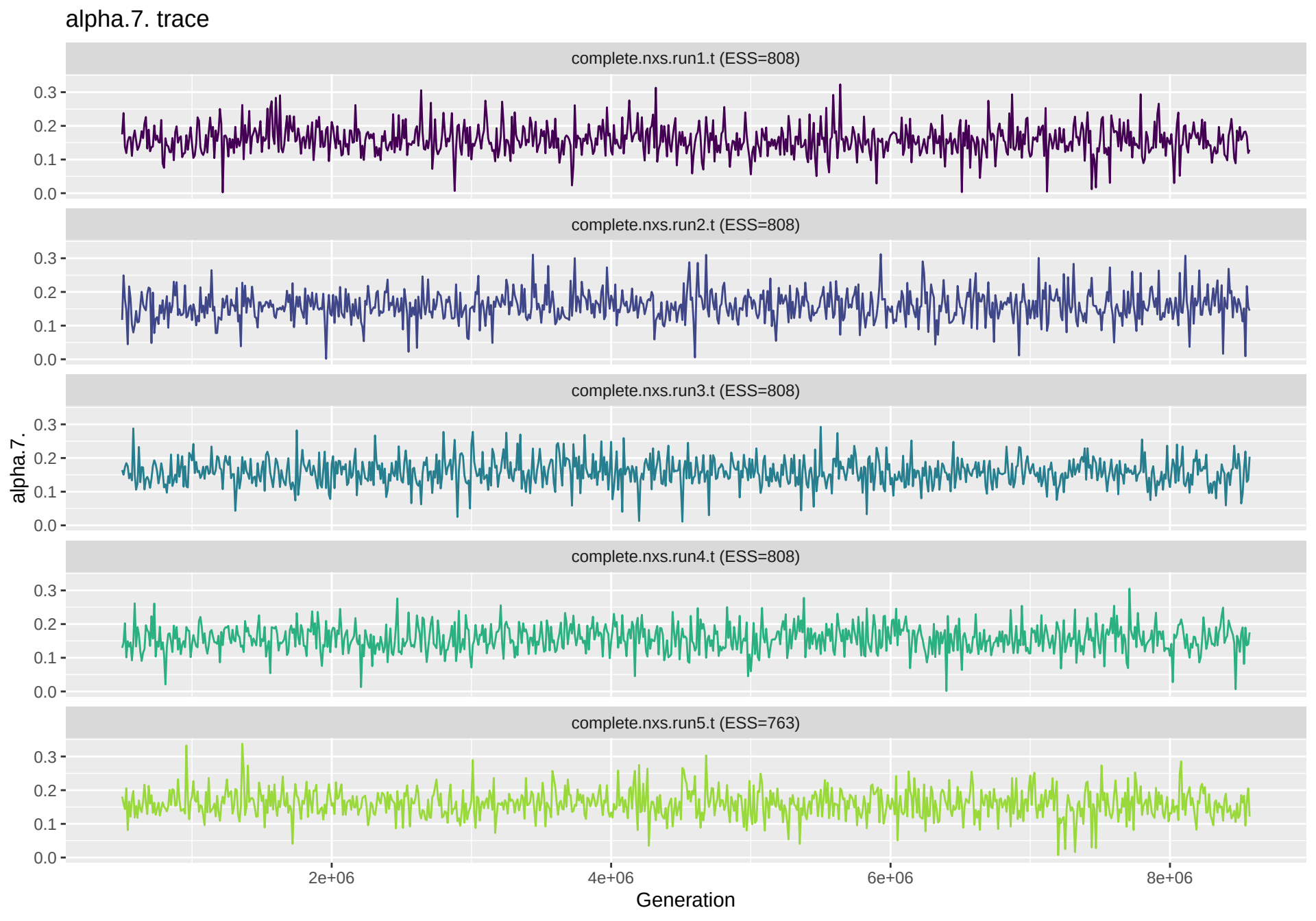

alpha.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
100
200
300
400
0
2
4
6
8
alpha.4.

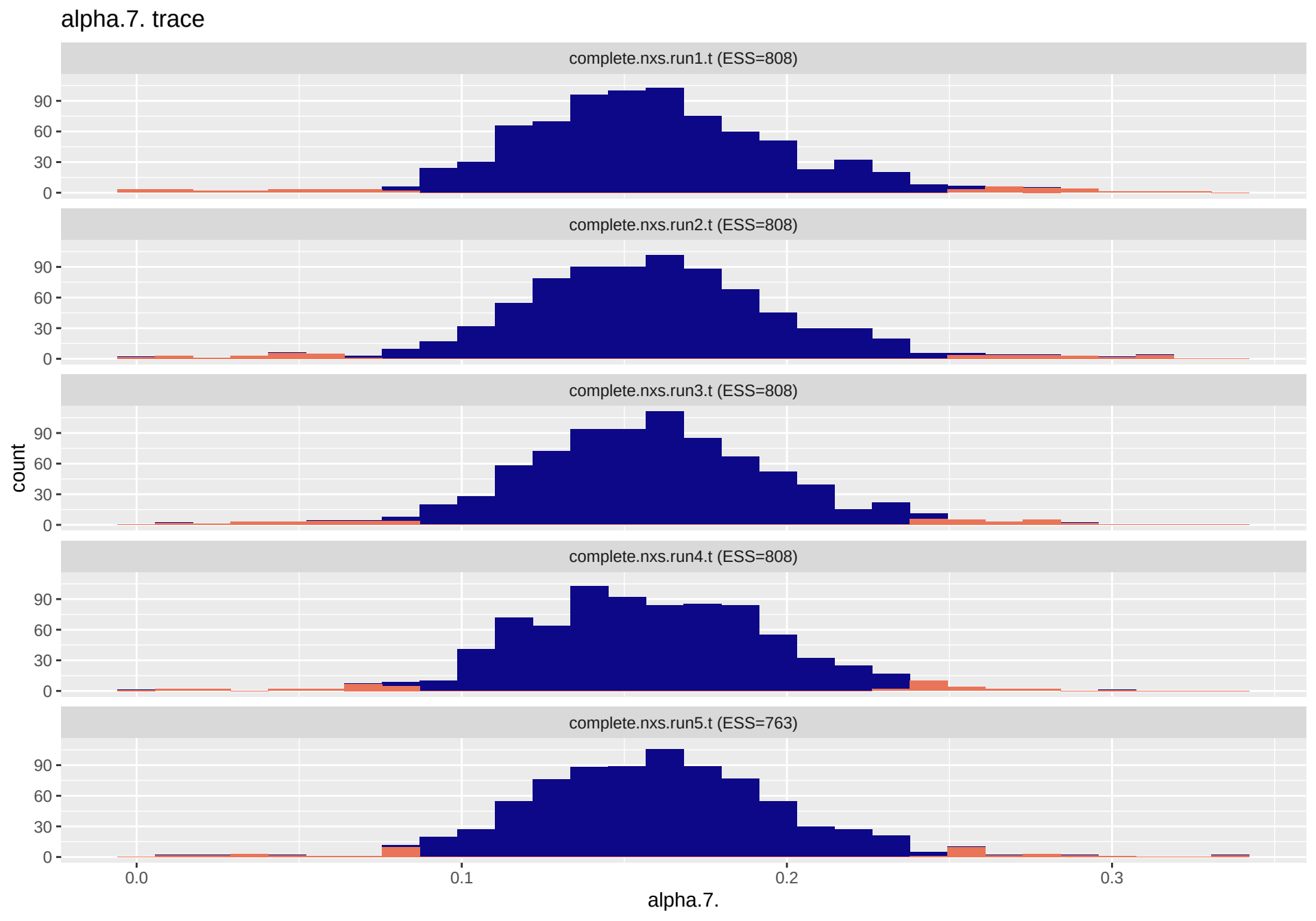

alpha.5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=614)
complete.nxs.run5.t (ESS=808)
alpha.5.
1.5
1.0
0.5
2e+06
4e+06
6e+06
8e+06
Generation

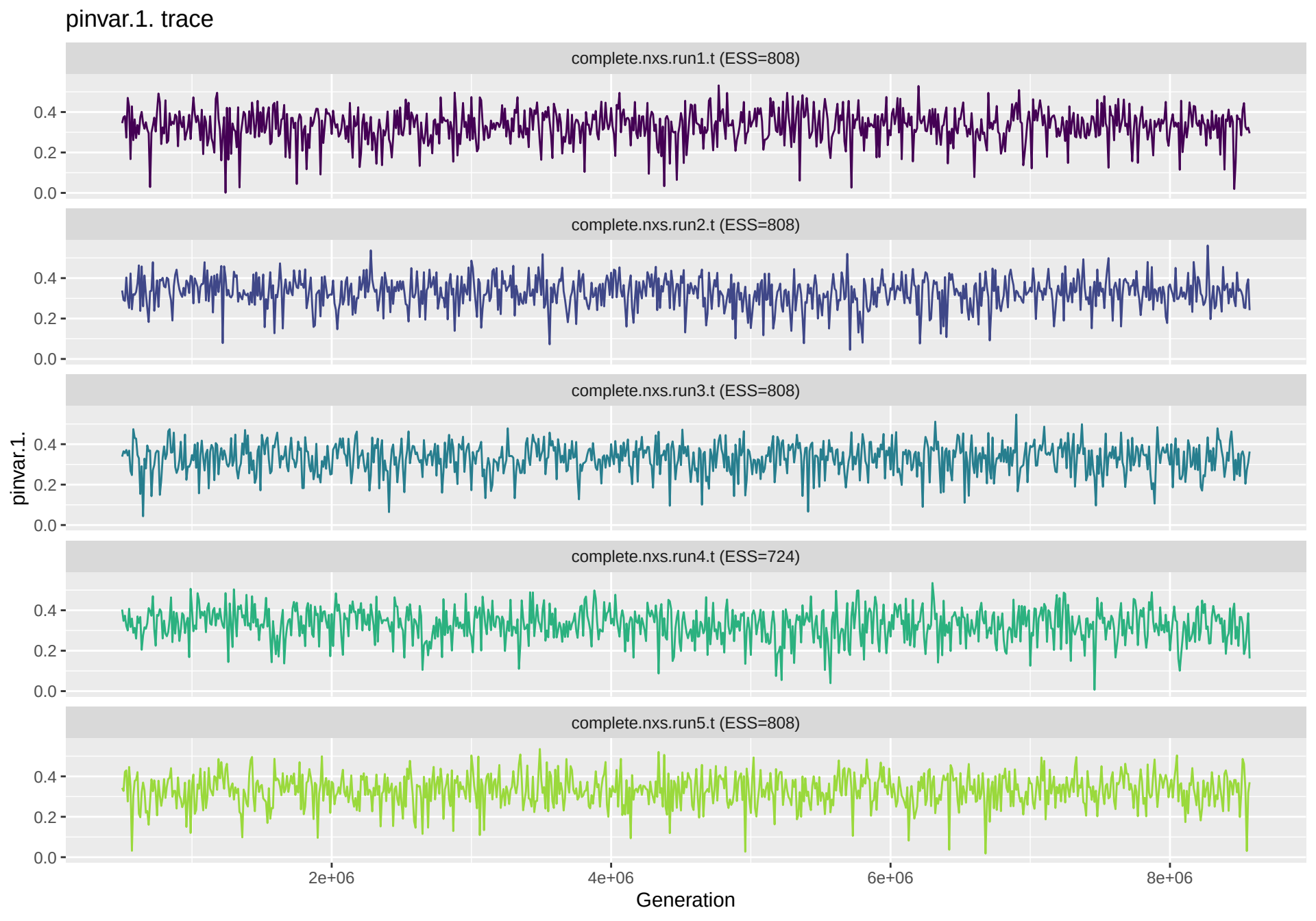

alpha.5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=614)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
0.5
1.0
1.5
alpha.5.

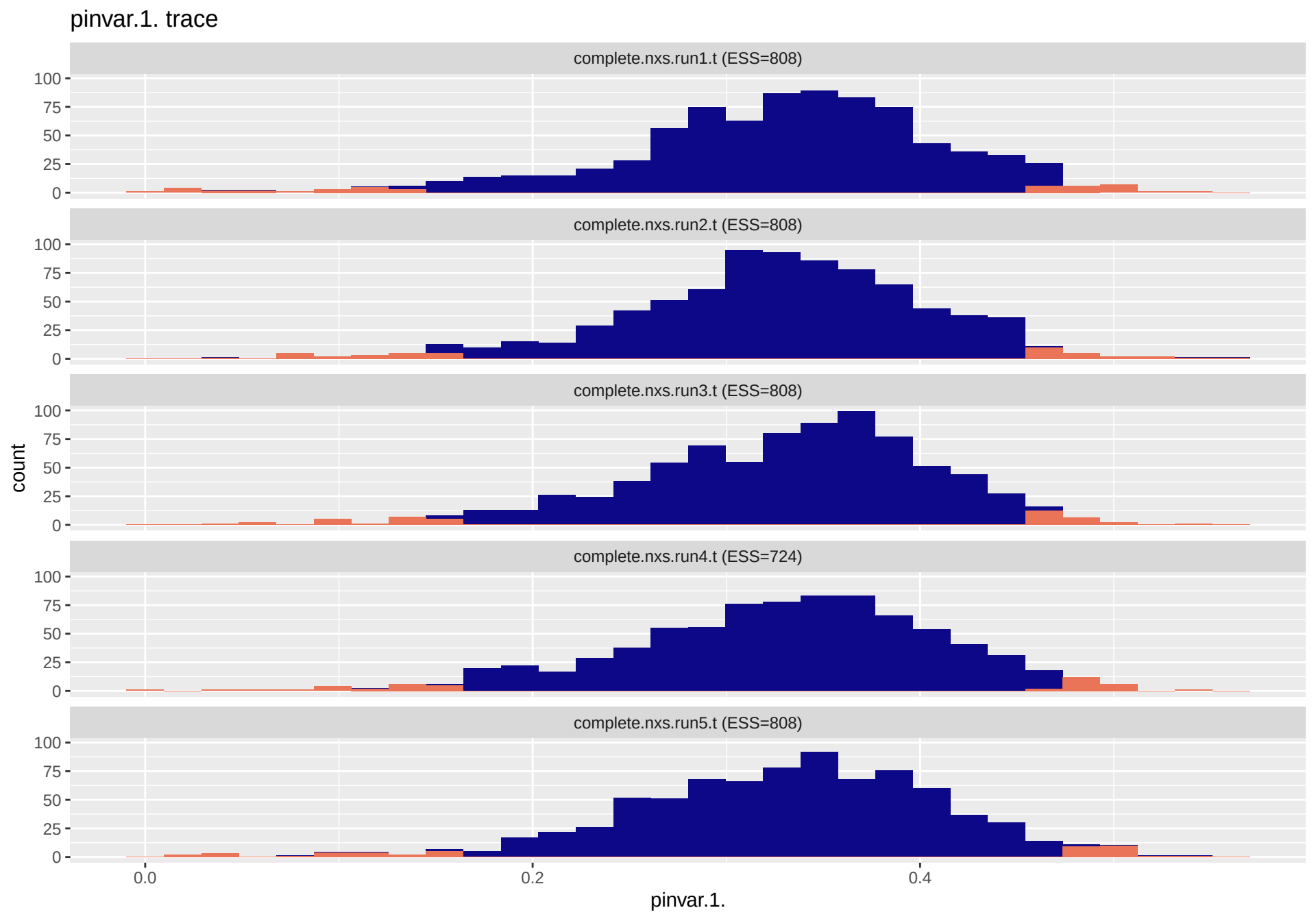

alpha.6. trace
complete.nxs.run1.t (ESS=1003)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=706)
complete.nxs.run5.t (ESS=808)
alpha.6.
1.6
1.2
0.8
2e+06
4e+06
6e+06
8e+06
Generation

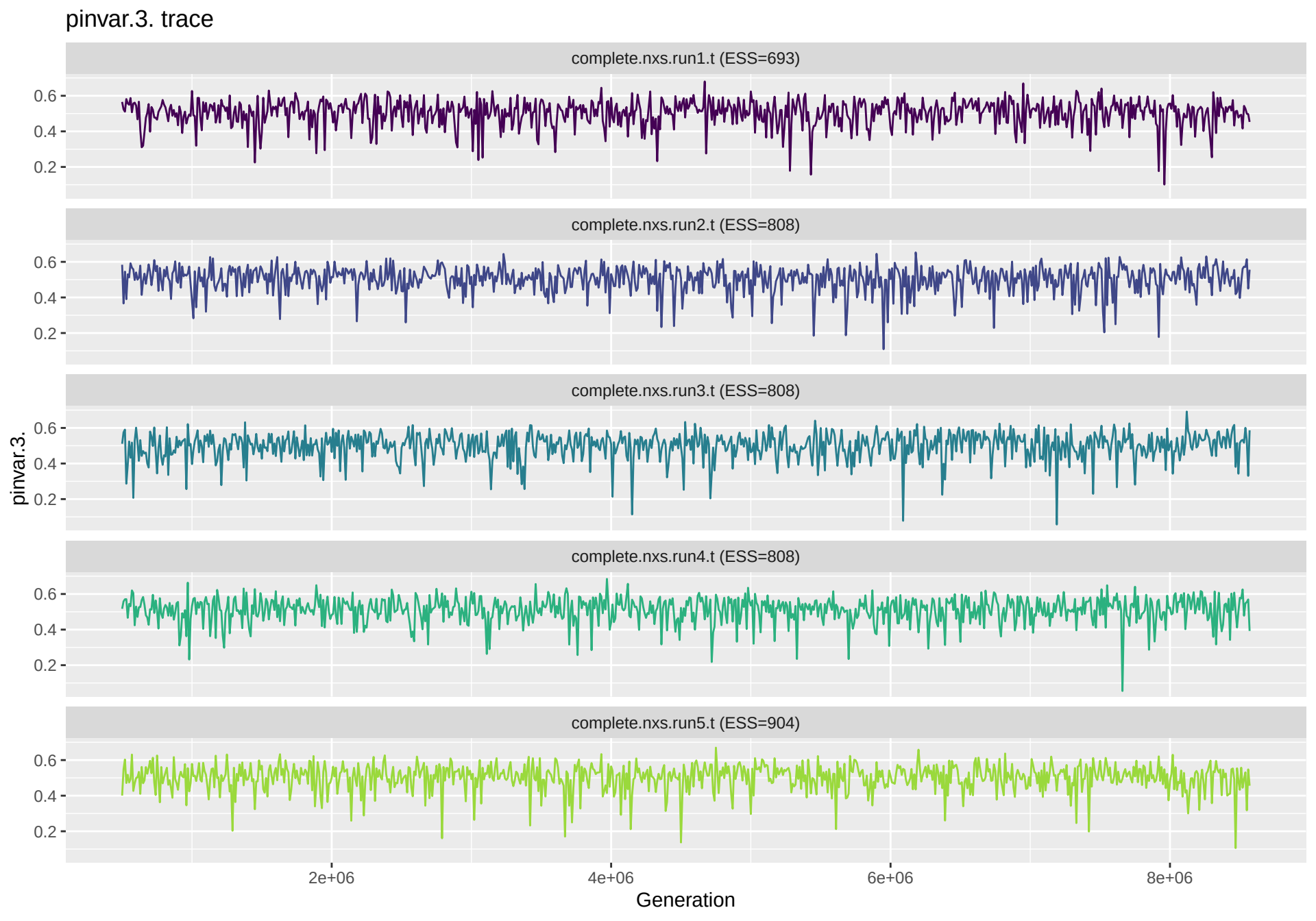

alpha.6. trace
complete.nxs.run1.t (ESS=1003)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=706)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
0.4
0.8
1.2
1.6
alpha.6.

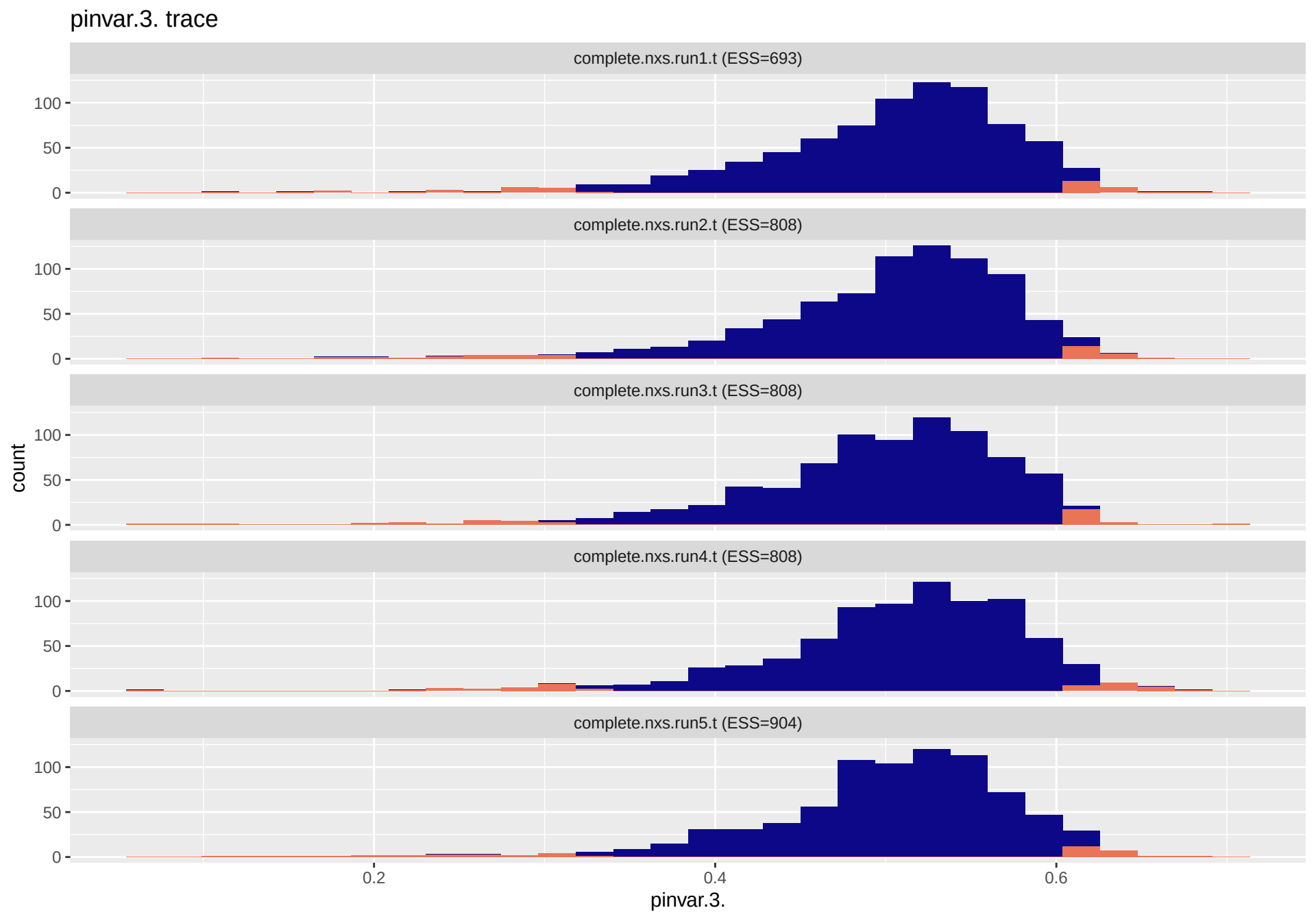

alpha.7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=763)
alpha.7.
0.0
0.1
0.2
0.3
2e+06
4e+06
6e+06
8e+06
Generation

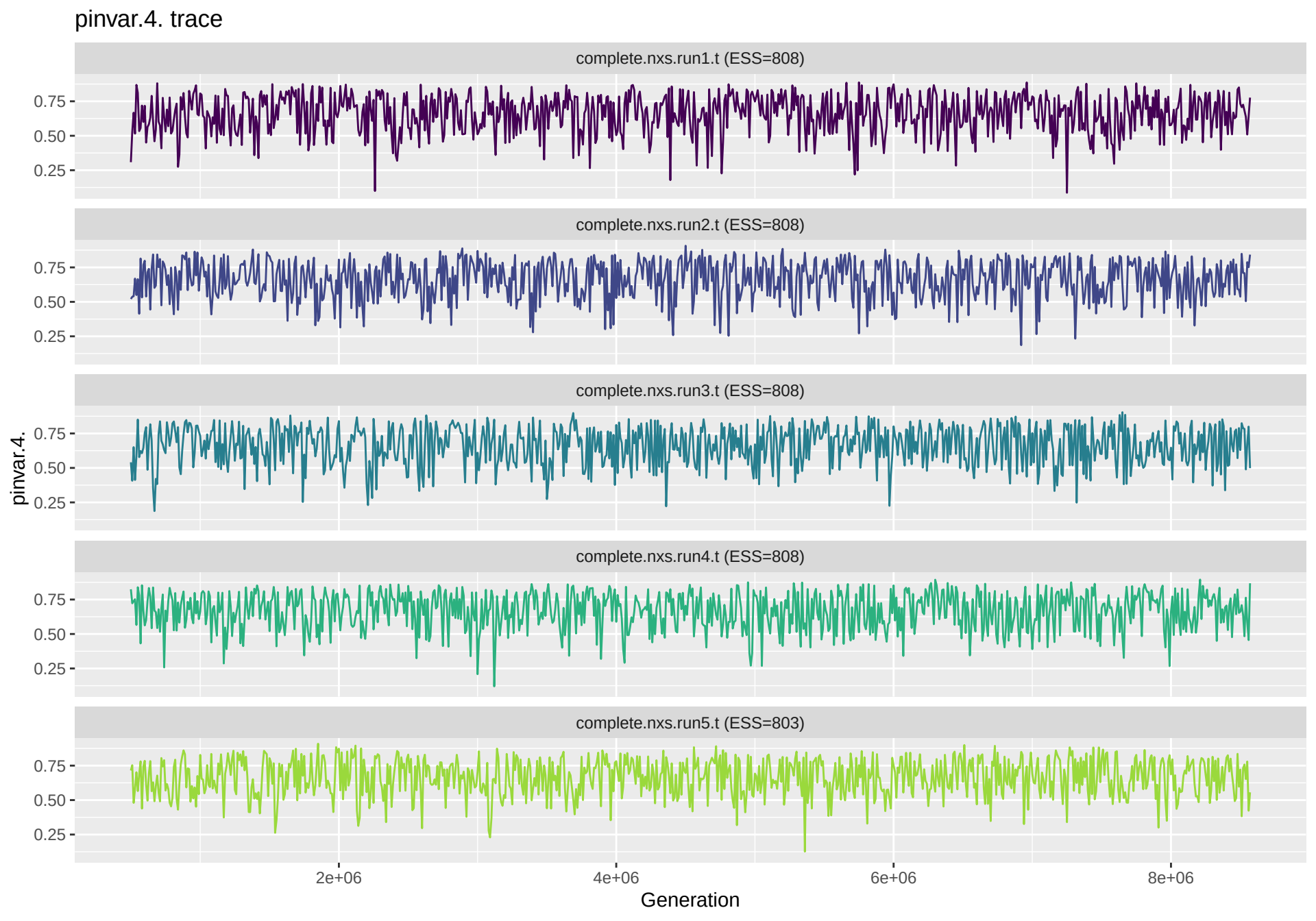

alpha.7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=763)
count
0
30
60
90
0.0
0.1
0.2
0.3
alpha.7.

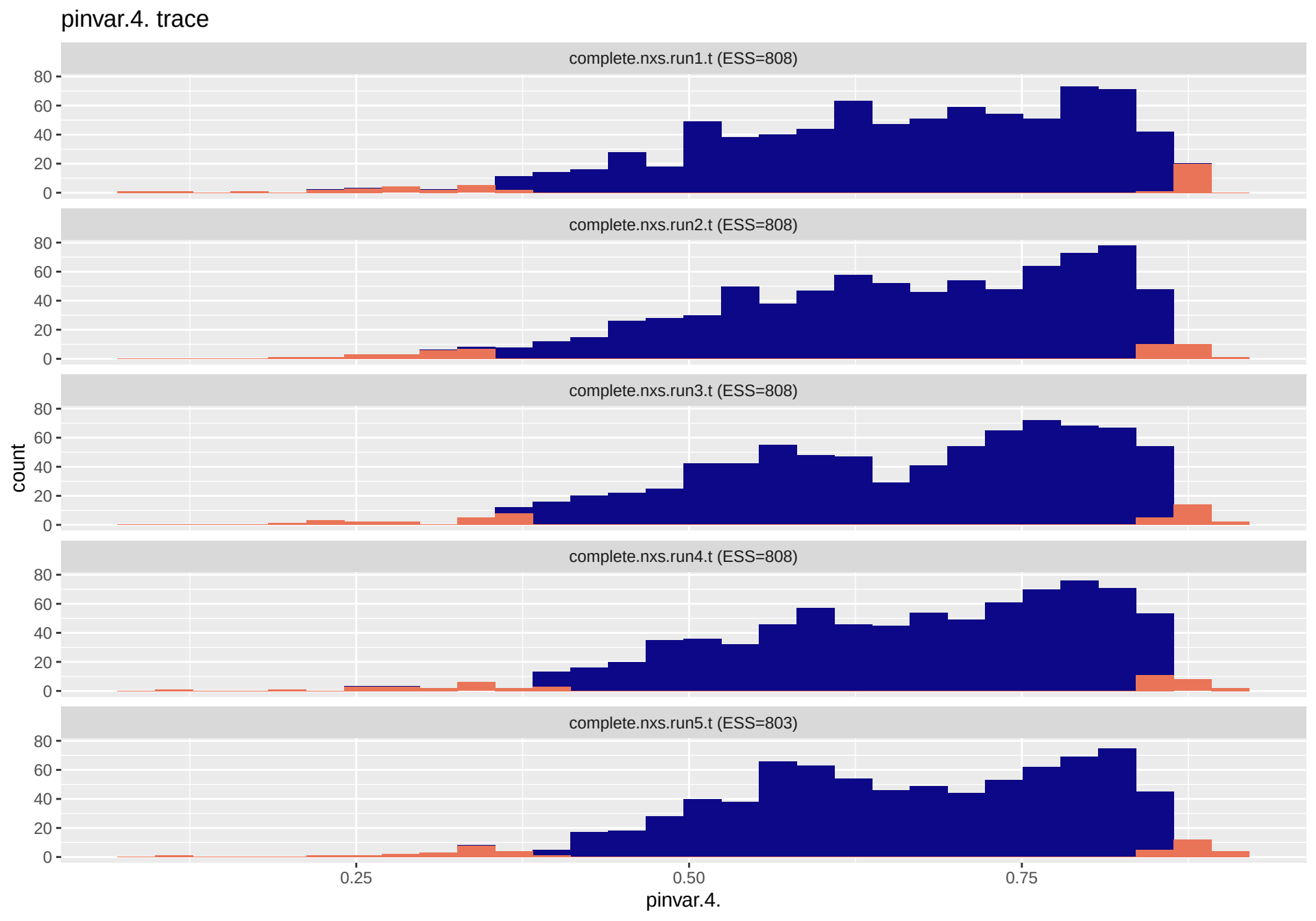

pinvar.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=724)
complete.nxs.run5.t (ESS=808)
pinvar.1.
0.0
0.2
0.4
2e+06
4e+06
6e+06
8e+06
Generation

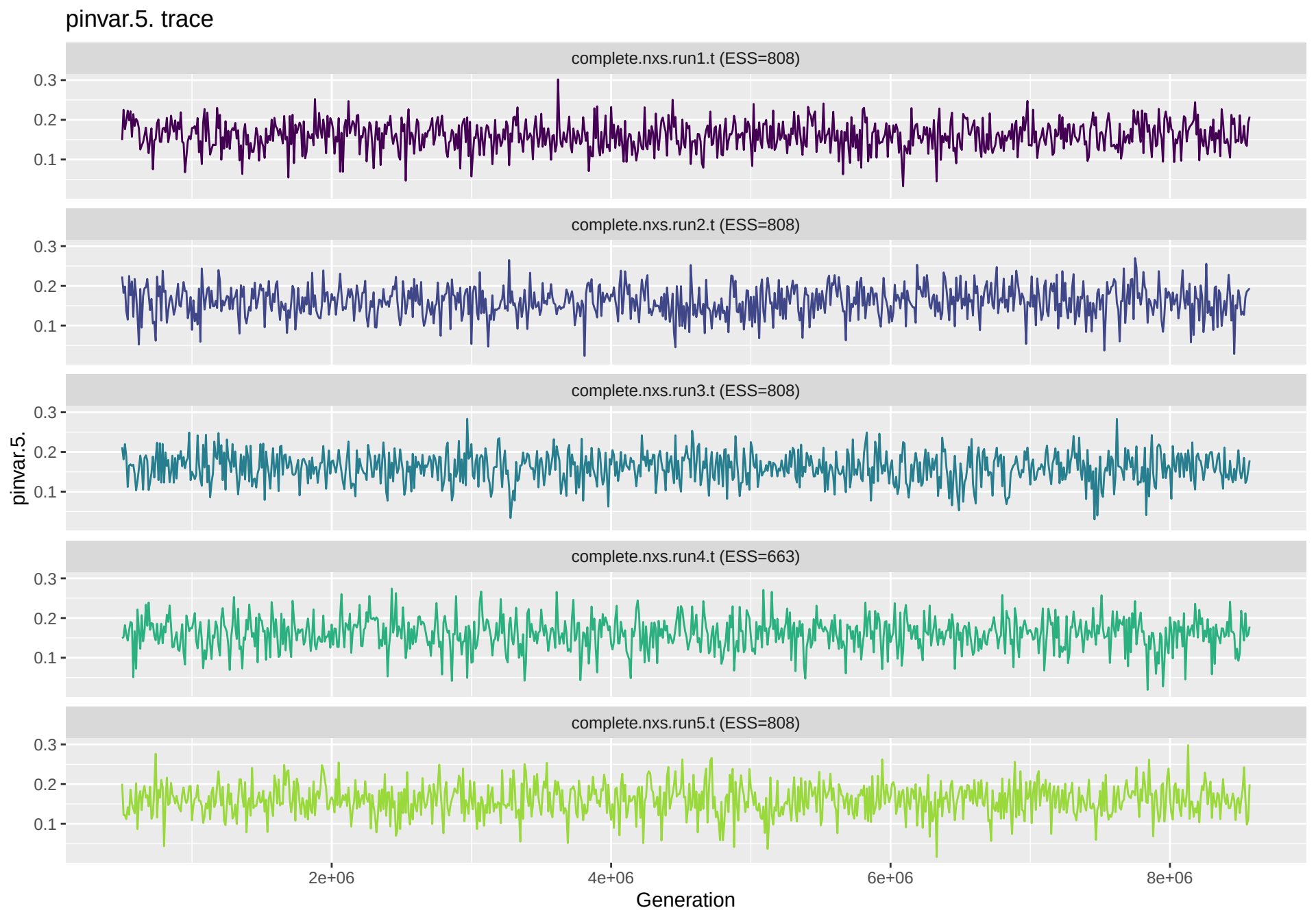

pinvar.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=724)
complete.nxs.run5.t (ESS=808)
count
pinvar.1.
0
25
50
75
100
0.0
0.2
0.4

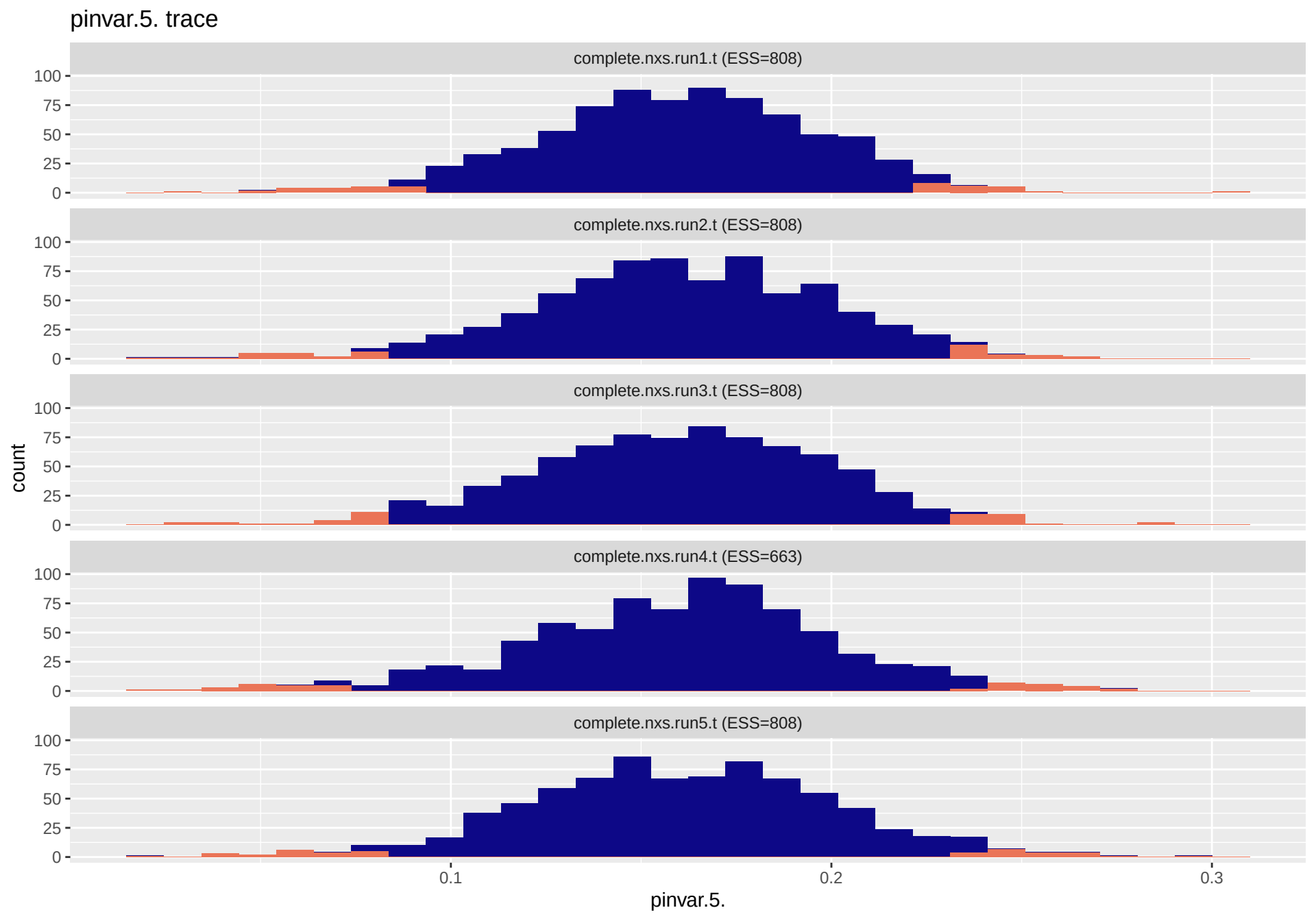

pinvar.3. trace
complete.nxs.run1.t (ESS=693)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=904)
pinvar.3.
0.6
0.4
0.2
2e+06
4e+06
6e+06
8e+06
Generation

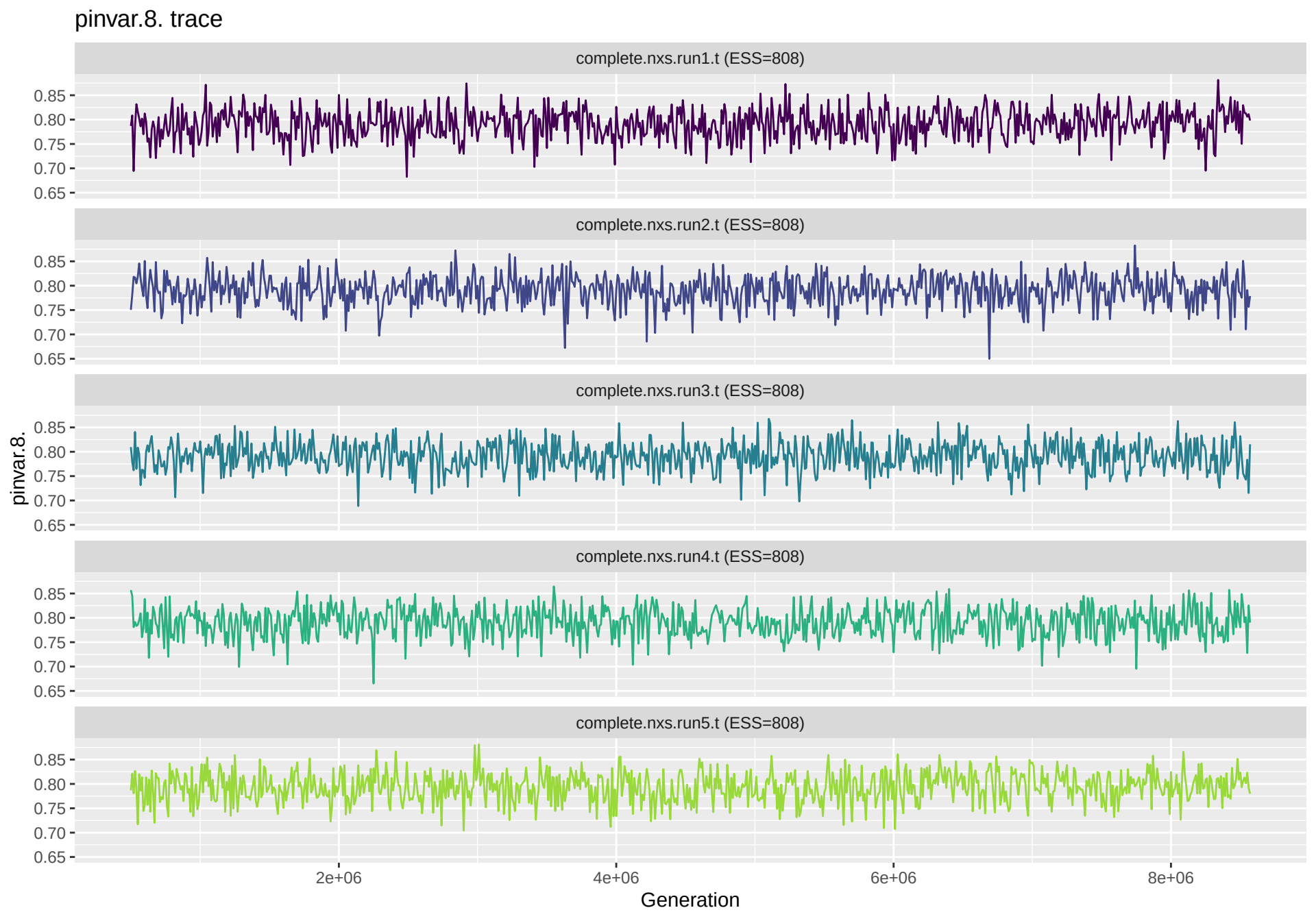

pinvar.3. trace
complete.nxs.run1.t (ESS=693)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=904)
count
0
50
100
0.2
0.4
0.6
pinvar.3.

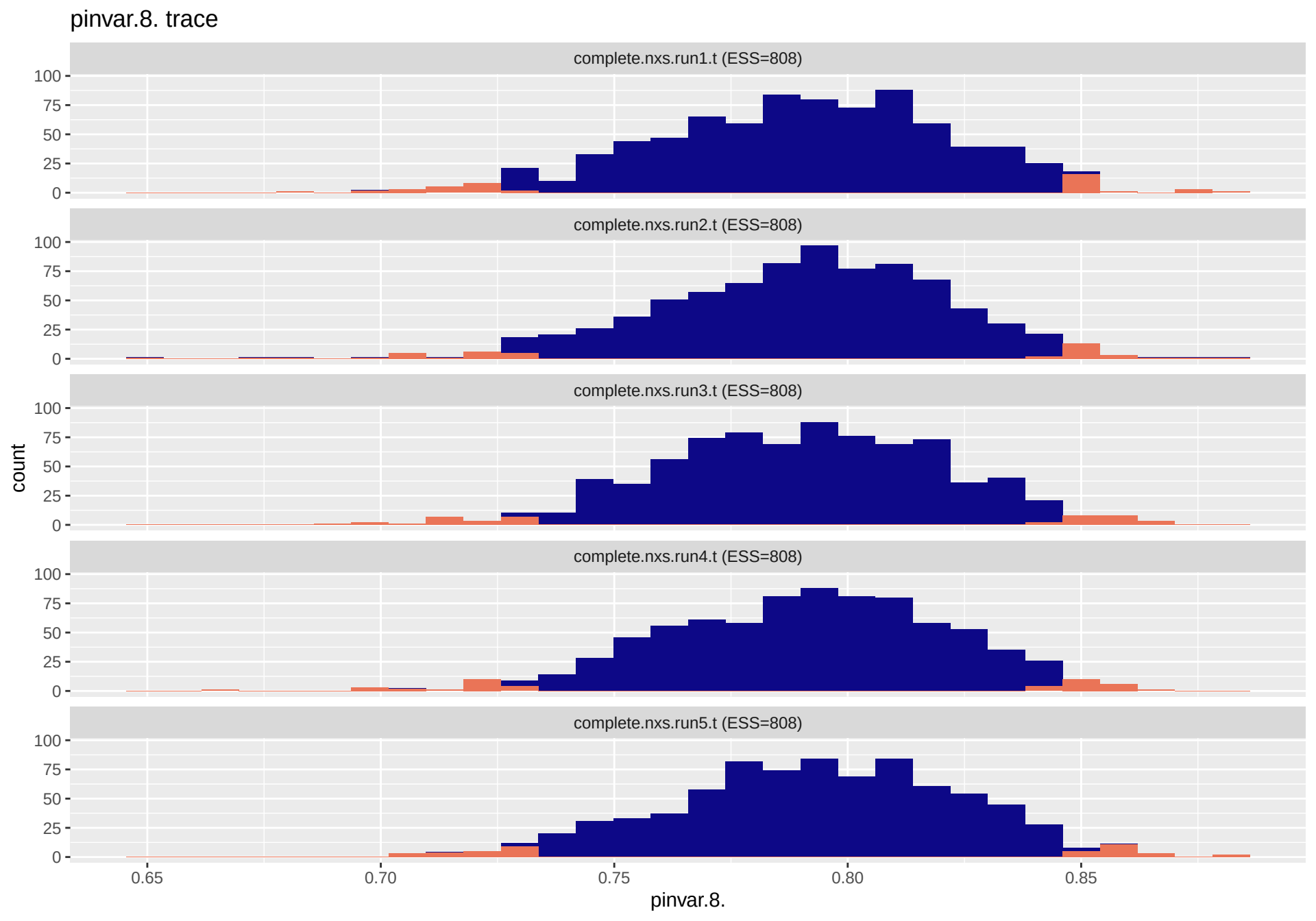

pinvar.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=803)
pinvar.4.
0.75
0.50
0.25
2e+06
4e+06
6e+06
8e+06
Generation

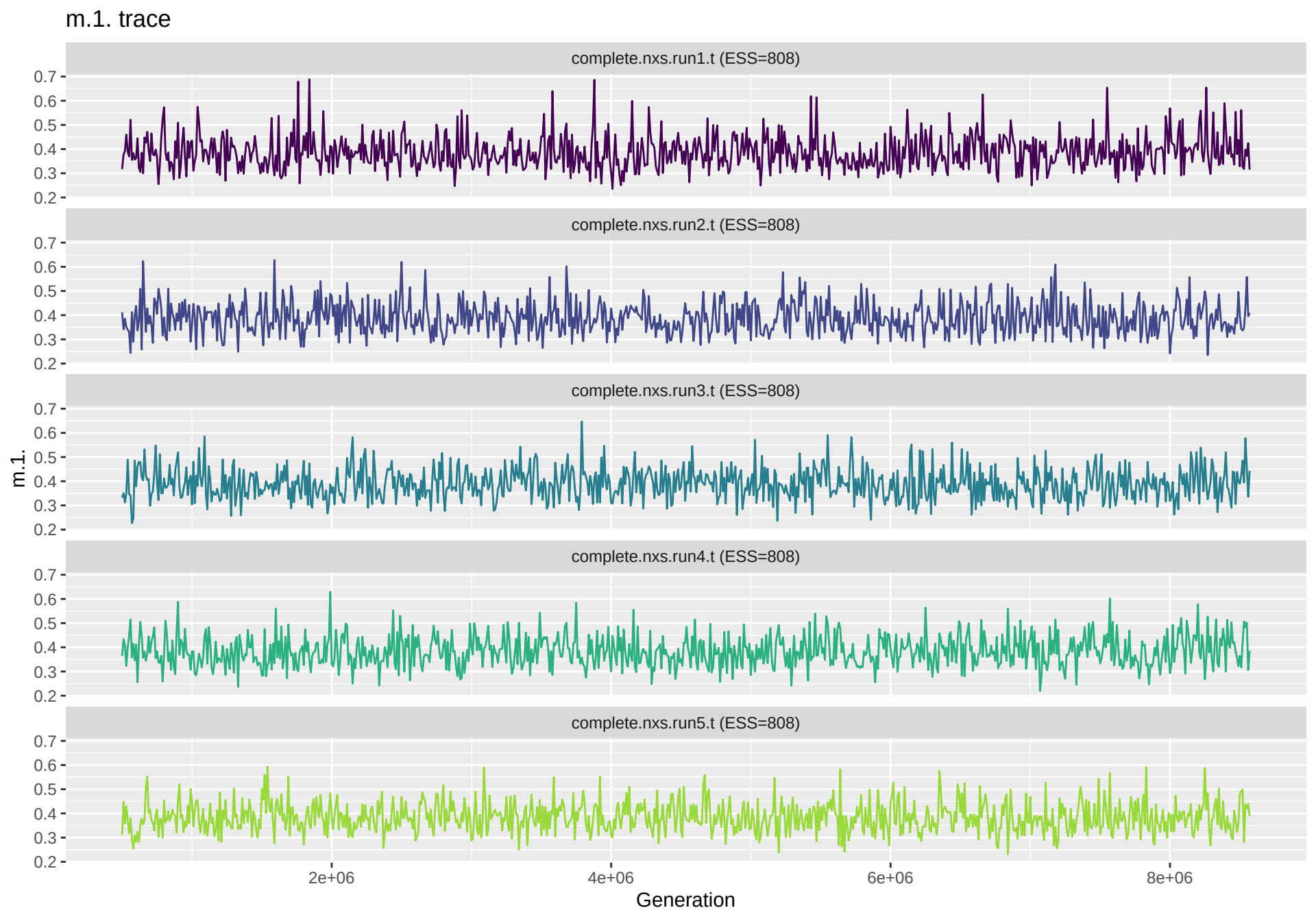

pinvar.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=803)
count
0
20
40
60
80
0.25
0.50
0.75
pinvar.4.

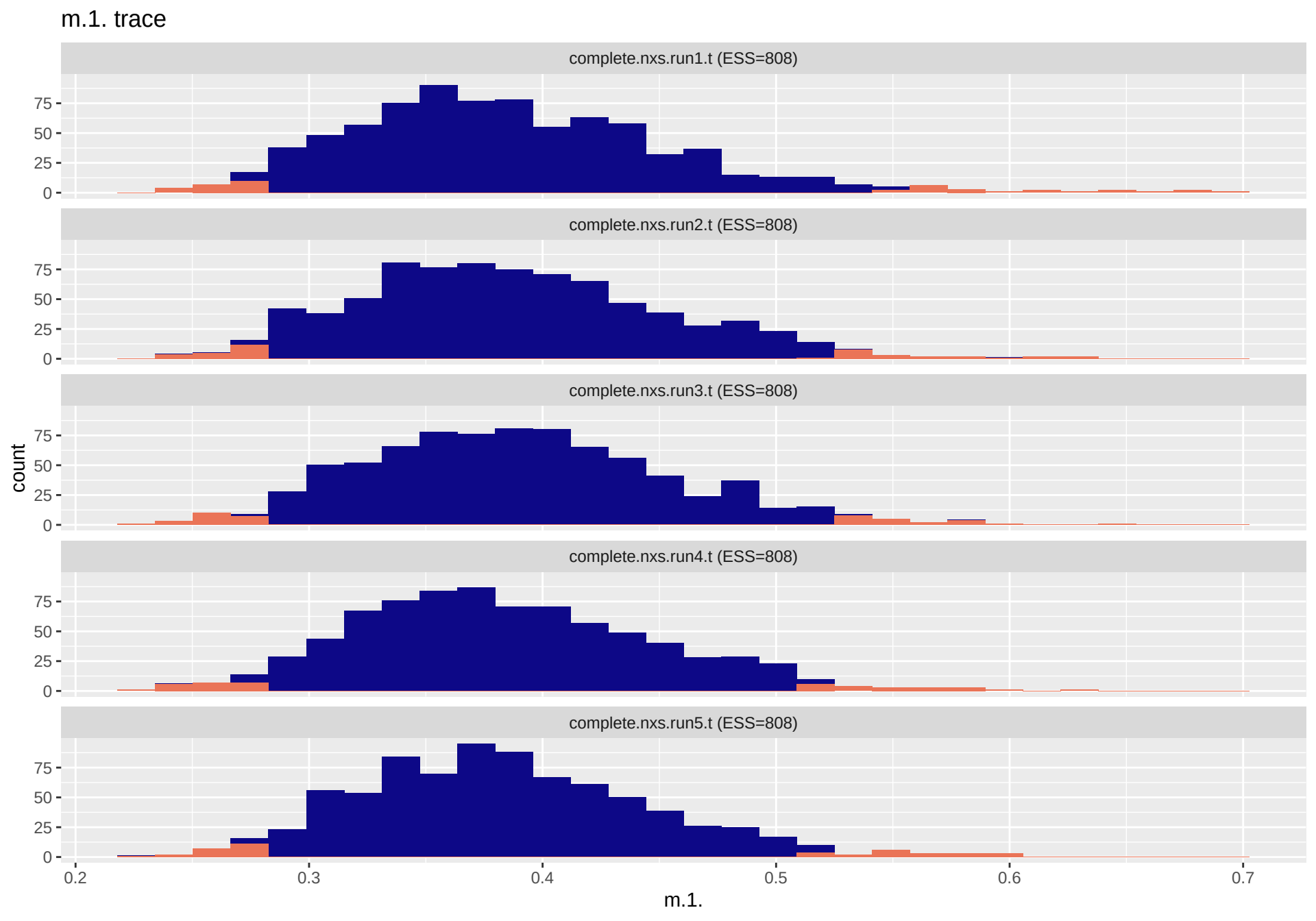

pinvar.5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=663)
complete.nxs.run5.t (ESS=808)
pinvar.5.
0.3
0.2
0.1
2e+06
4e+06
6e+06
8e+06
Generation

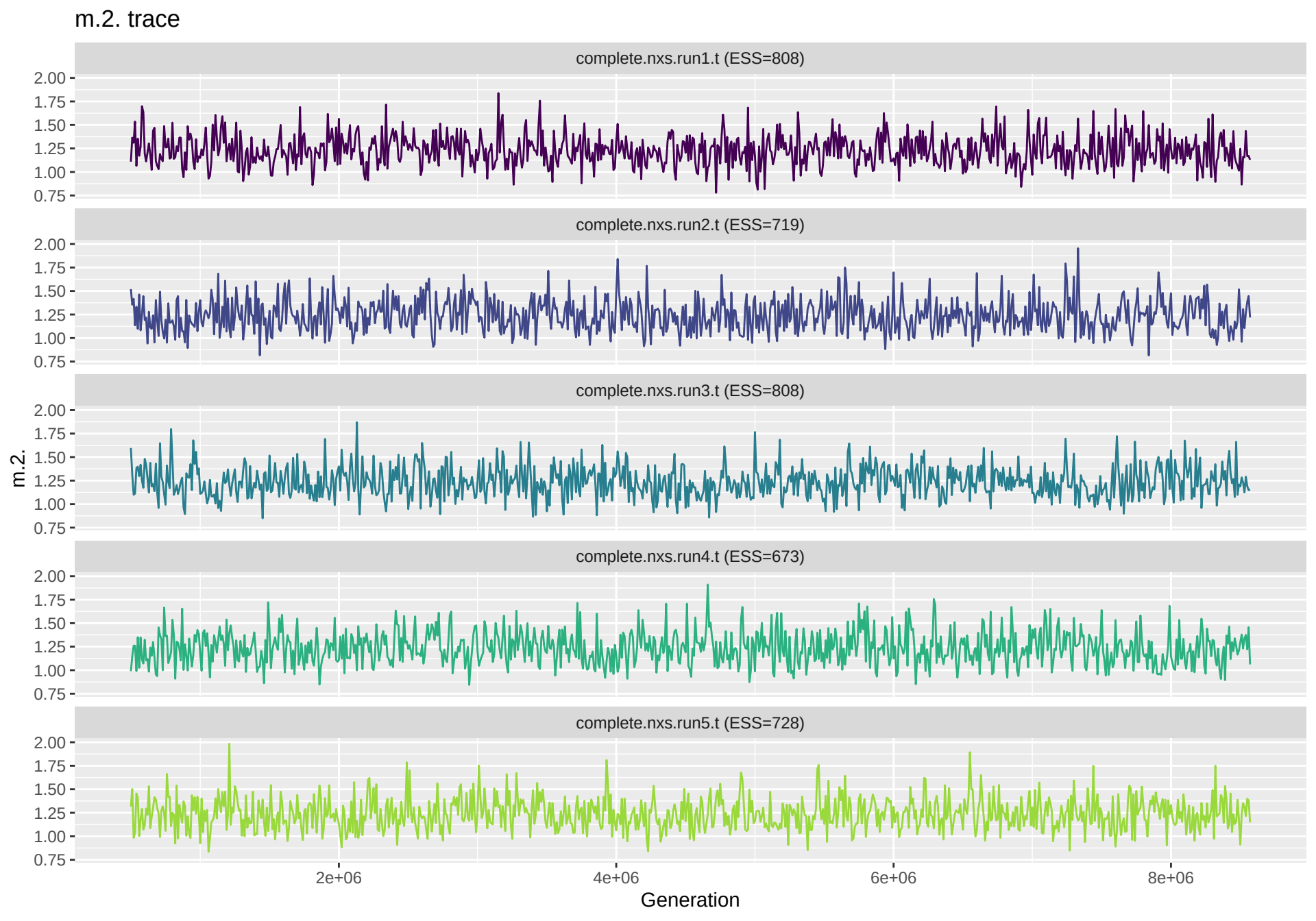

pinvar.5. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=663)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.1
0.2
0.3
pinvar.5.

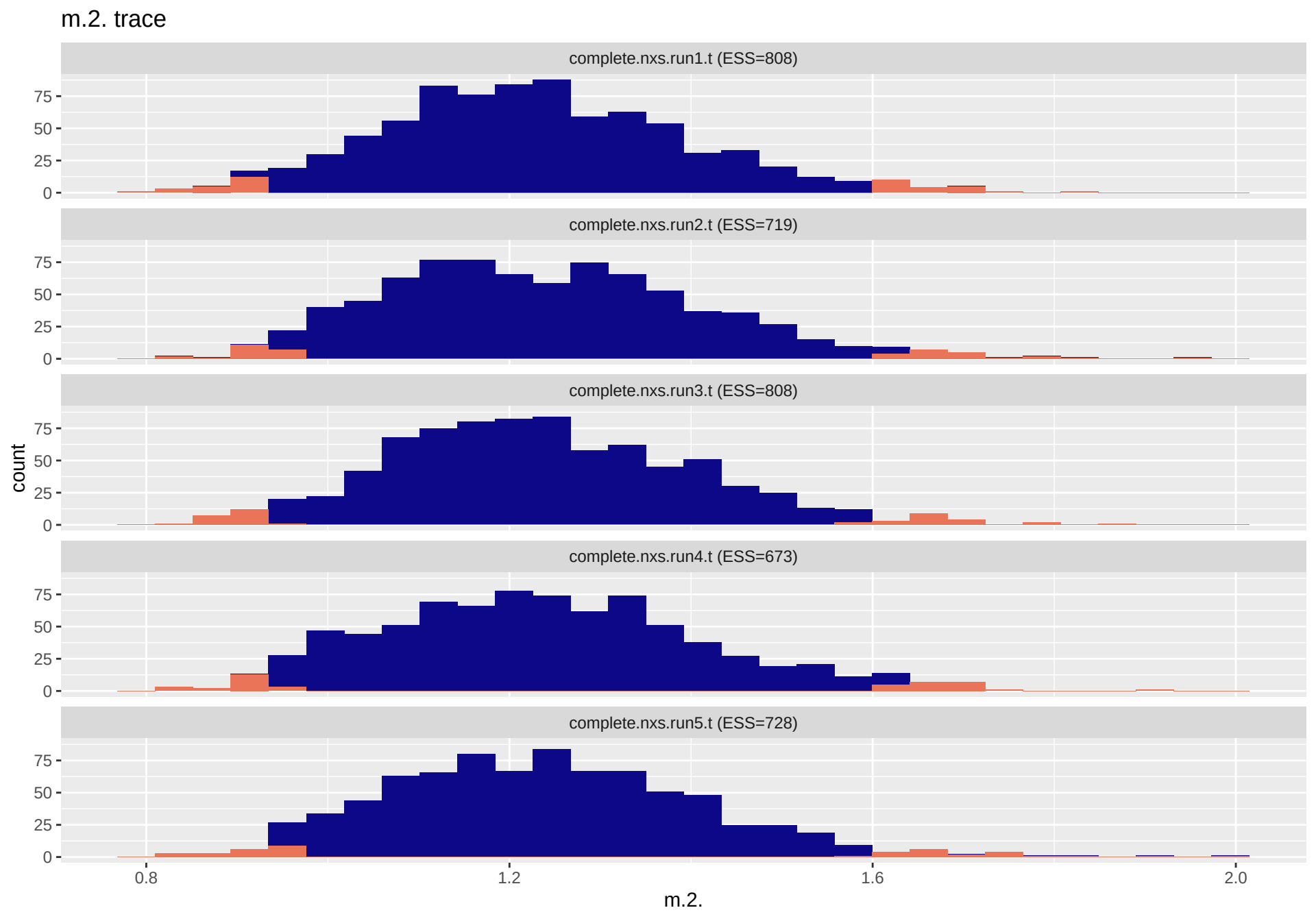

pinvar.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
pinvar.8.
0.85
0.80
0.75
0.70
0.65
2e+06
4e+06
6e+06
8e+06
Generation

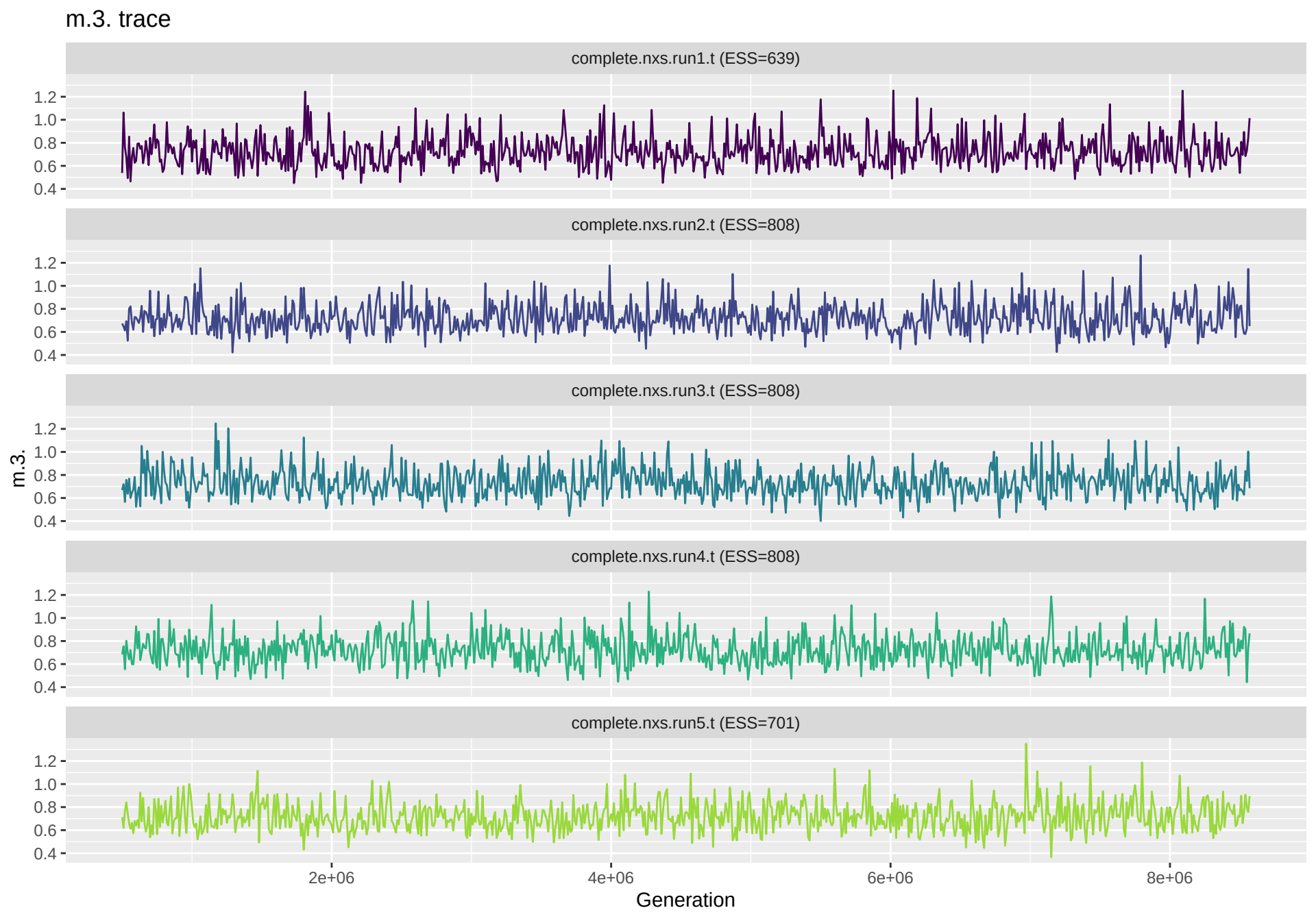

pinvar.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.65
0.70
0.75
0.80
0.85
pinvar.8.


m.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
m.1.
0.7
0.6
0.5
0.4
0.3
0.2
2e+06
4e+06
6e+06
8e+06
Generation

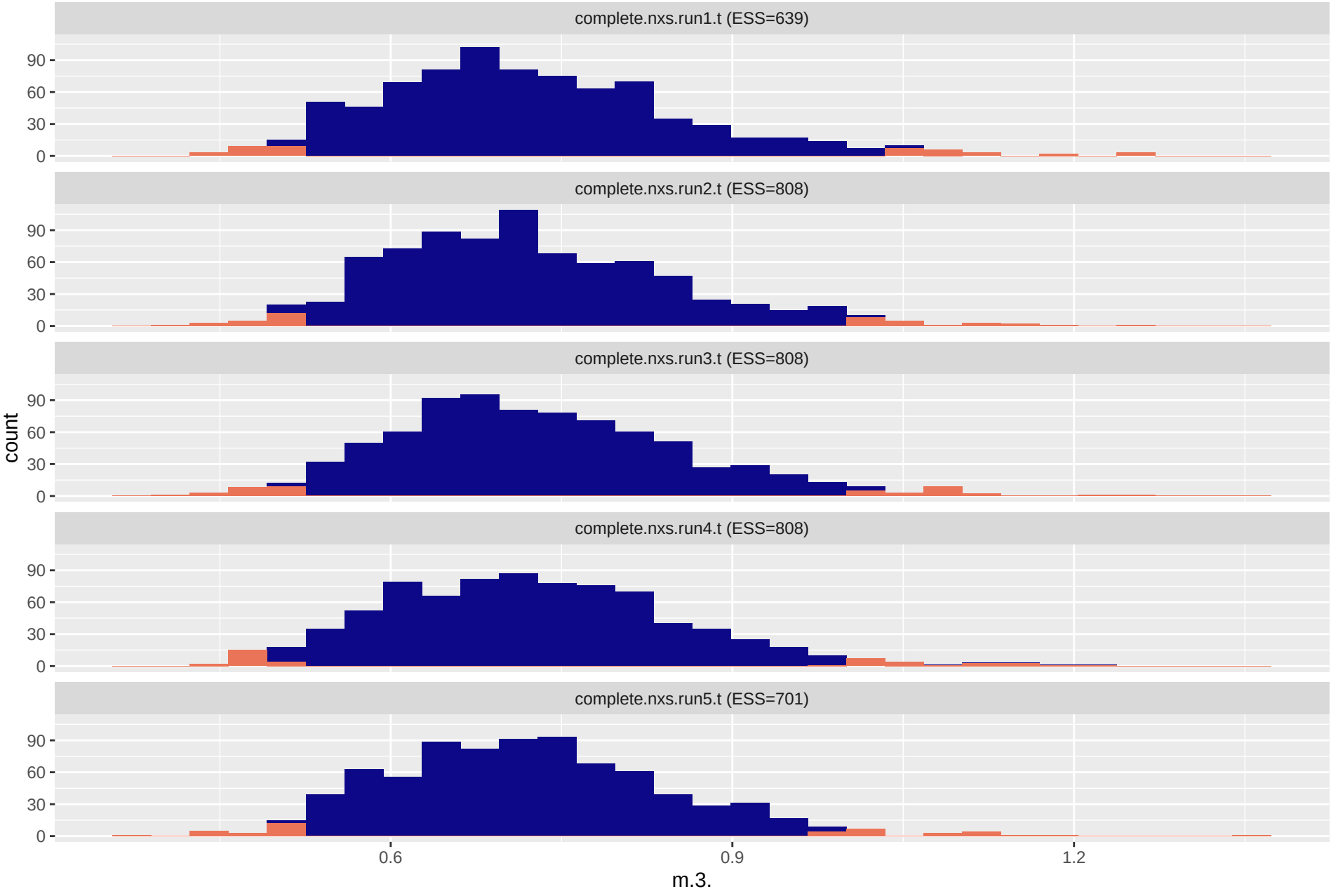

m.1. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
0.2
0.3
0.4
0.5
0.6
0.7
m.1.


m.2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=719)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=673)
complete.nxs.run5.t (ESS=728)
m.2.
2.00
1.75
1.50
1.25
1.00
0.75
2e+06
4e+06
6e+06
8e+06
Generation

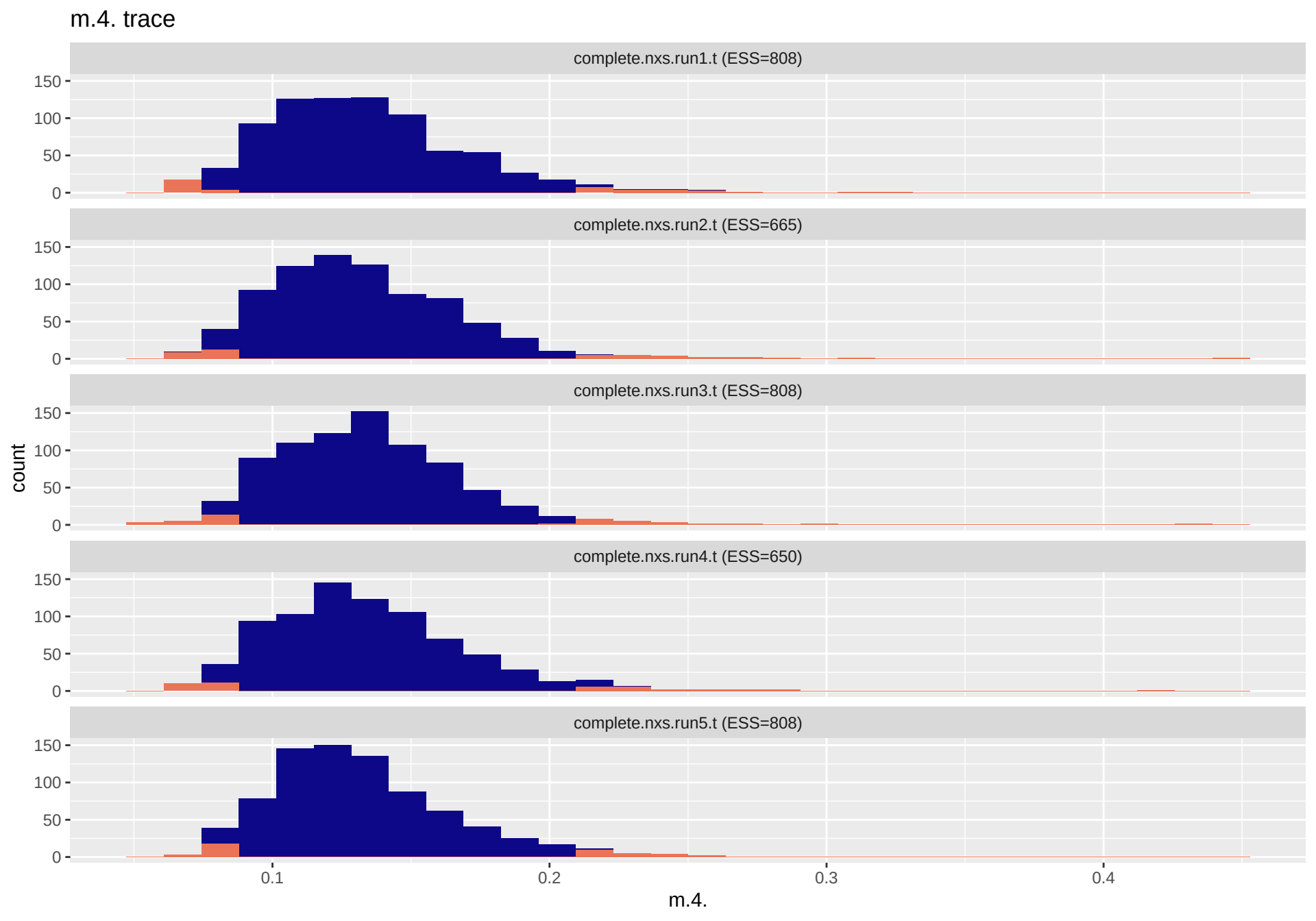

m.2. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=719)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=673)
complete.nxs.run5.t (ESS=728)
count
0
25
50
75
0.8
1.2
1.6
2.0
m.2.

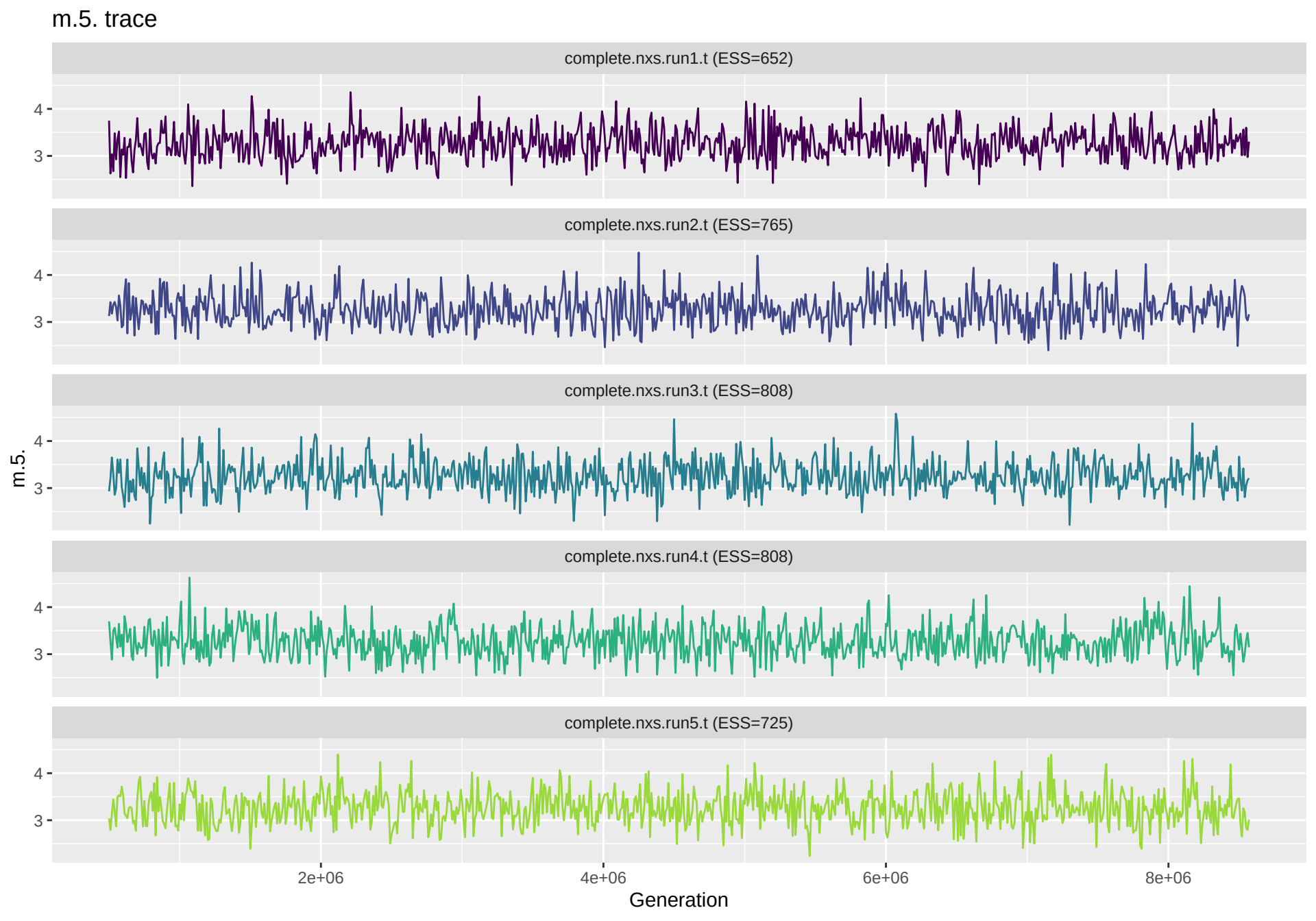

m.3. trace
complete.nxs.run1.t (ESS=639)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=701)
m.3.
1.2
1.0
0.8
0.6
0.4
2e+06
4e+06
6e+06
8e+06
Generation

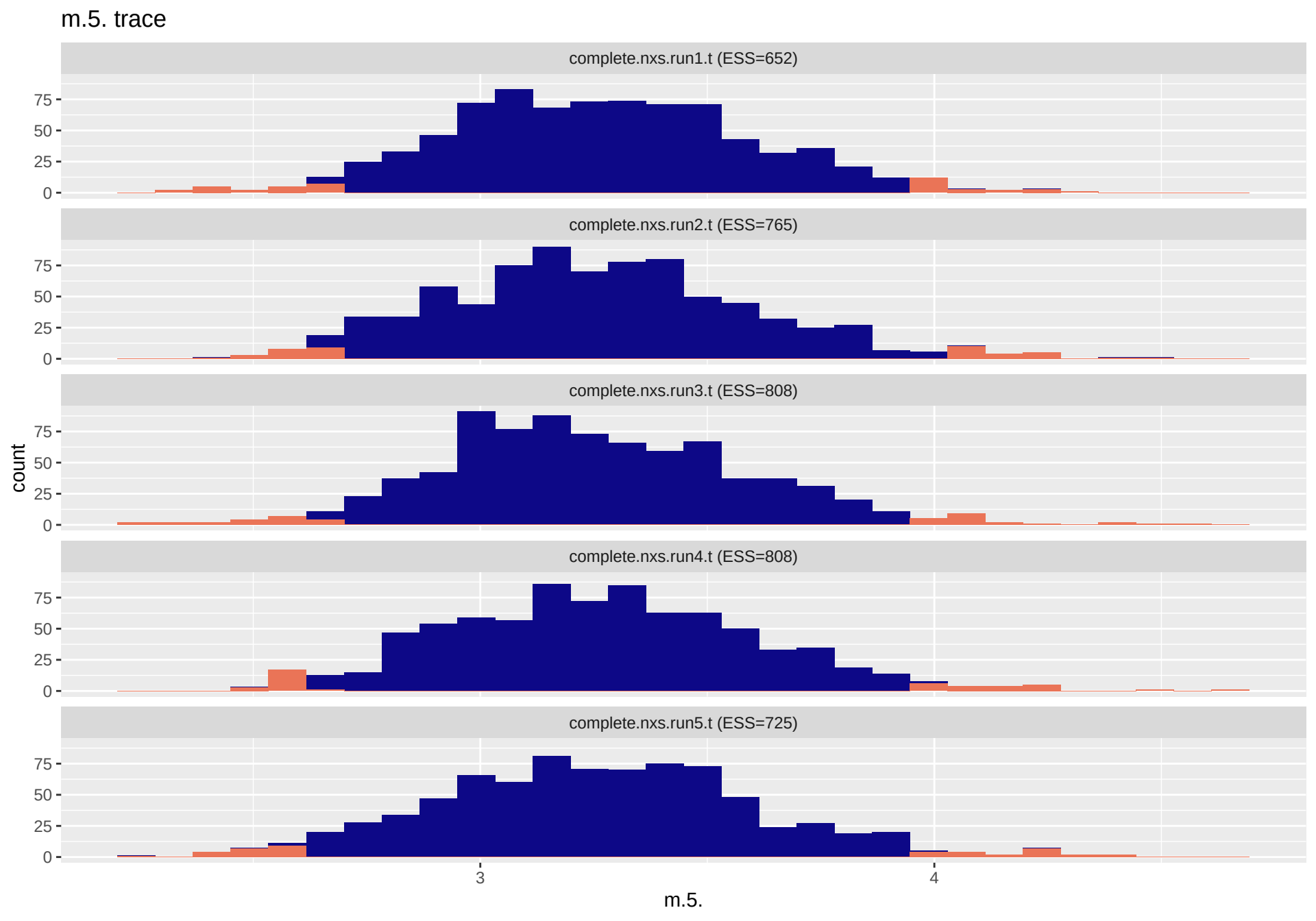
m.3. trace

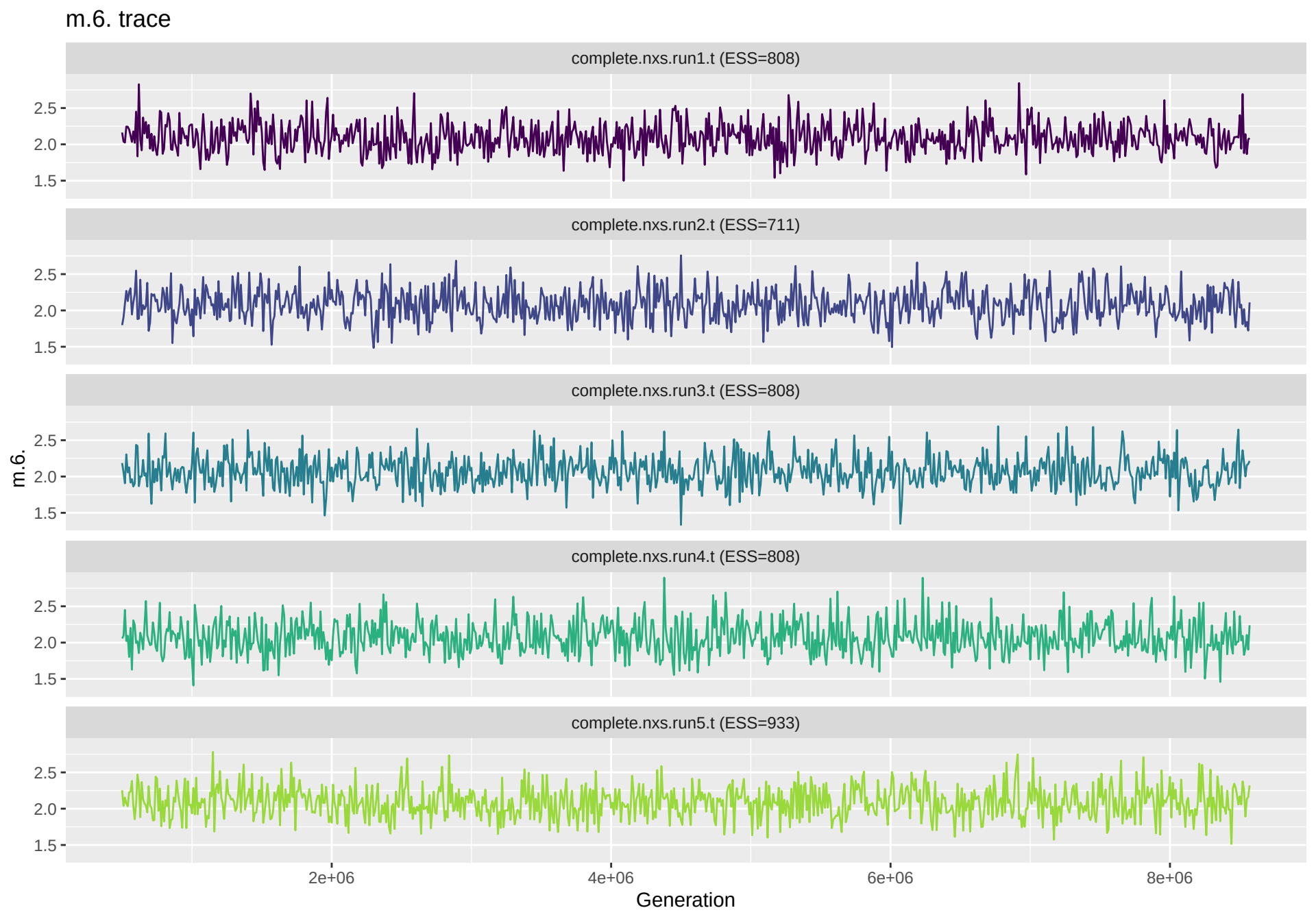

complete.nxs.run1.t (ESS=639)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=701)
count
0
30
60
90
0.6
0.9
1.2
m.3.

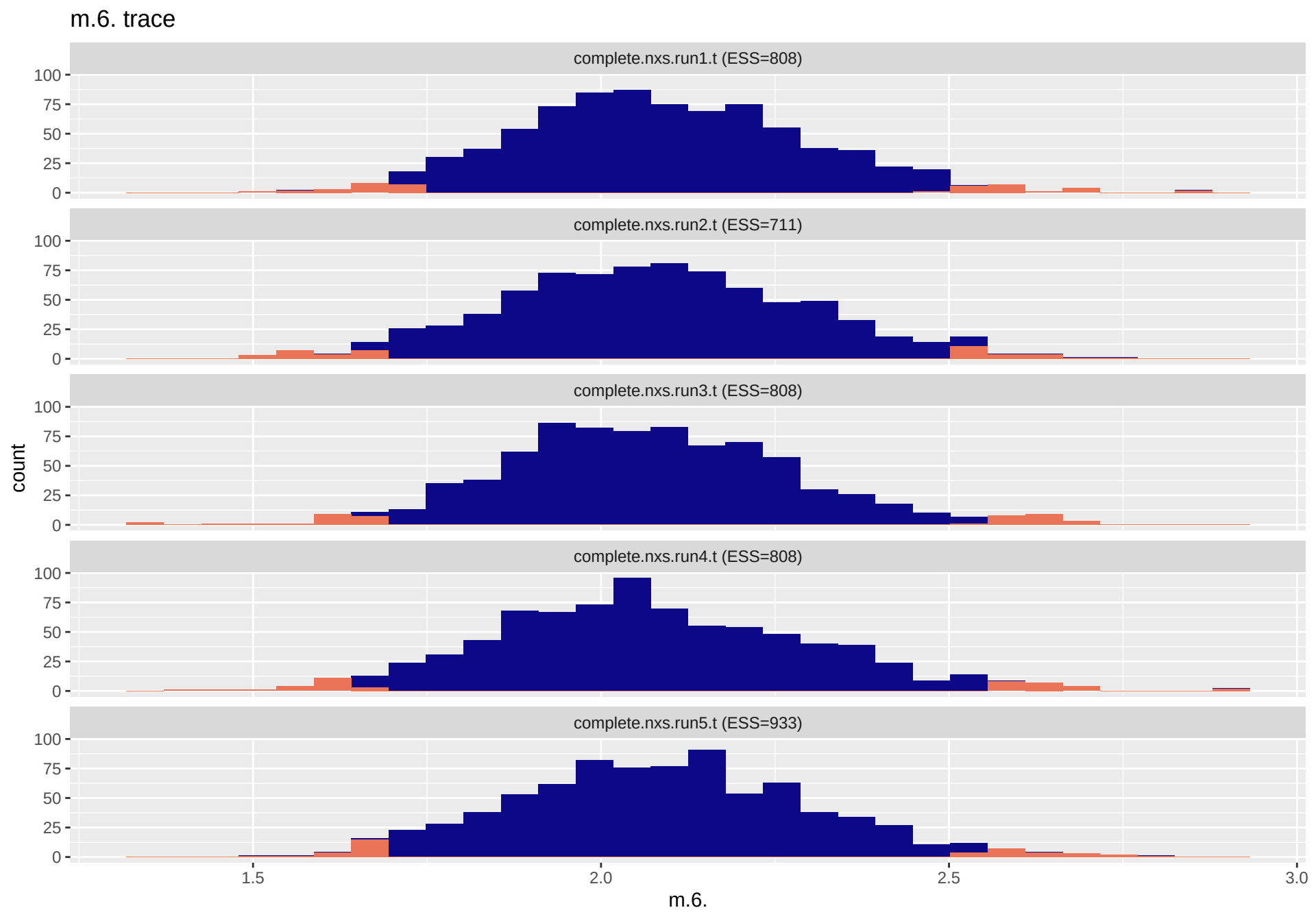
m.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=665)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=650)
complete.nxs.run5.t (ESS=808)
m.4.
0.4
0.3
0.2
0.1
2e+06
4e+06
6e+06
8e+06
Generation

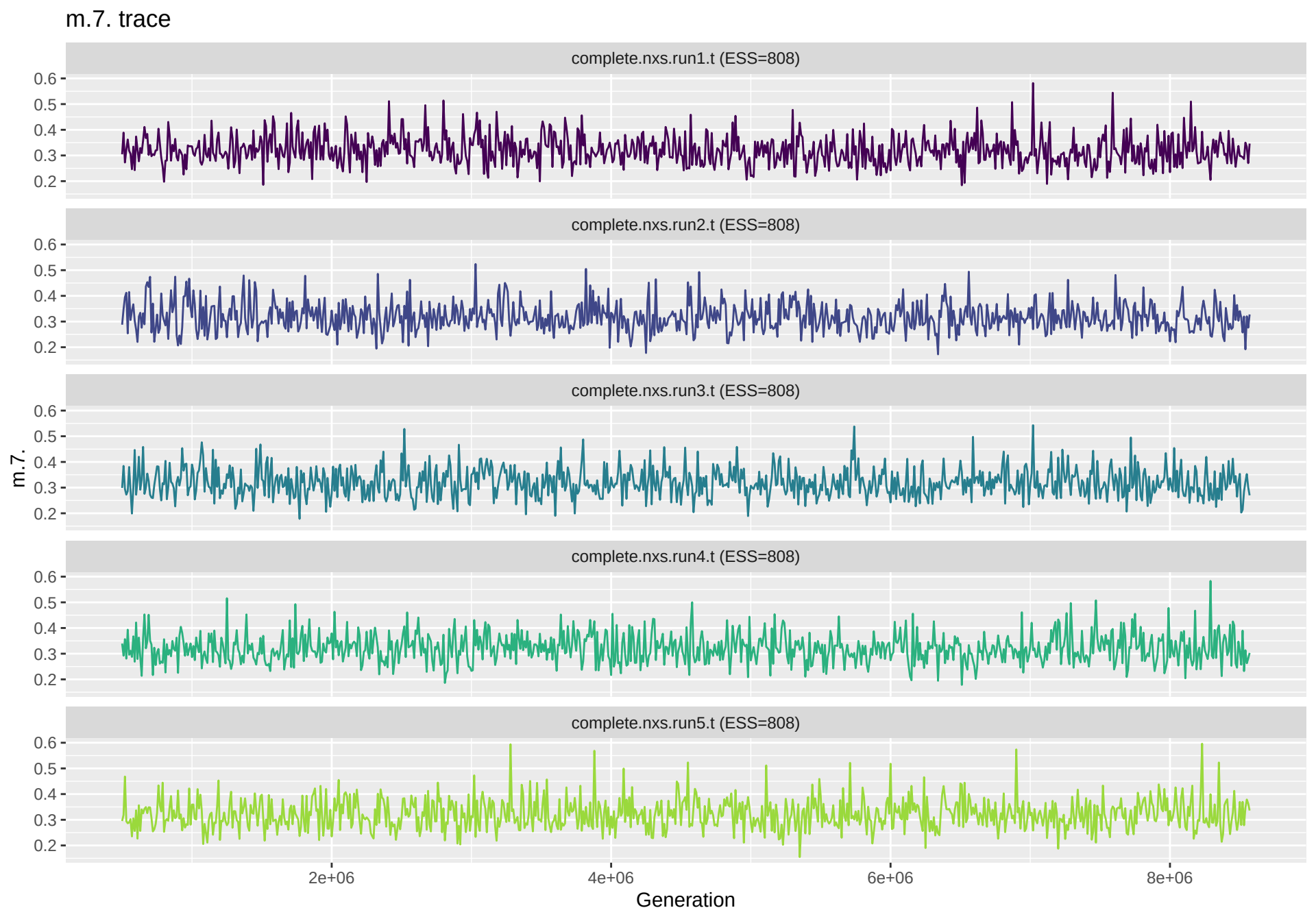

m.4. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=665)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=650)
complete.nxs.run5.t (ESS=808)
count
0
50
100
150
0.1
0.2
0.3
0.4
m.4.

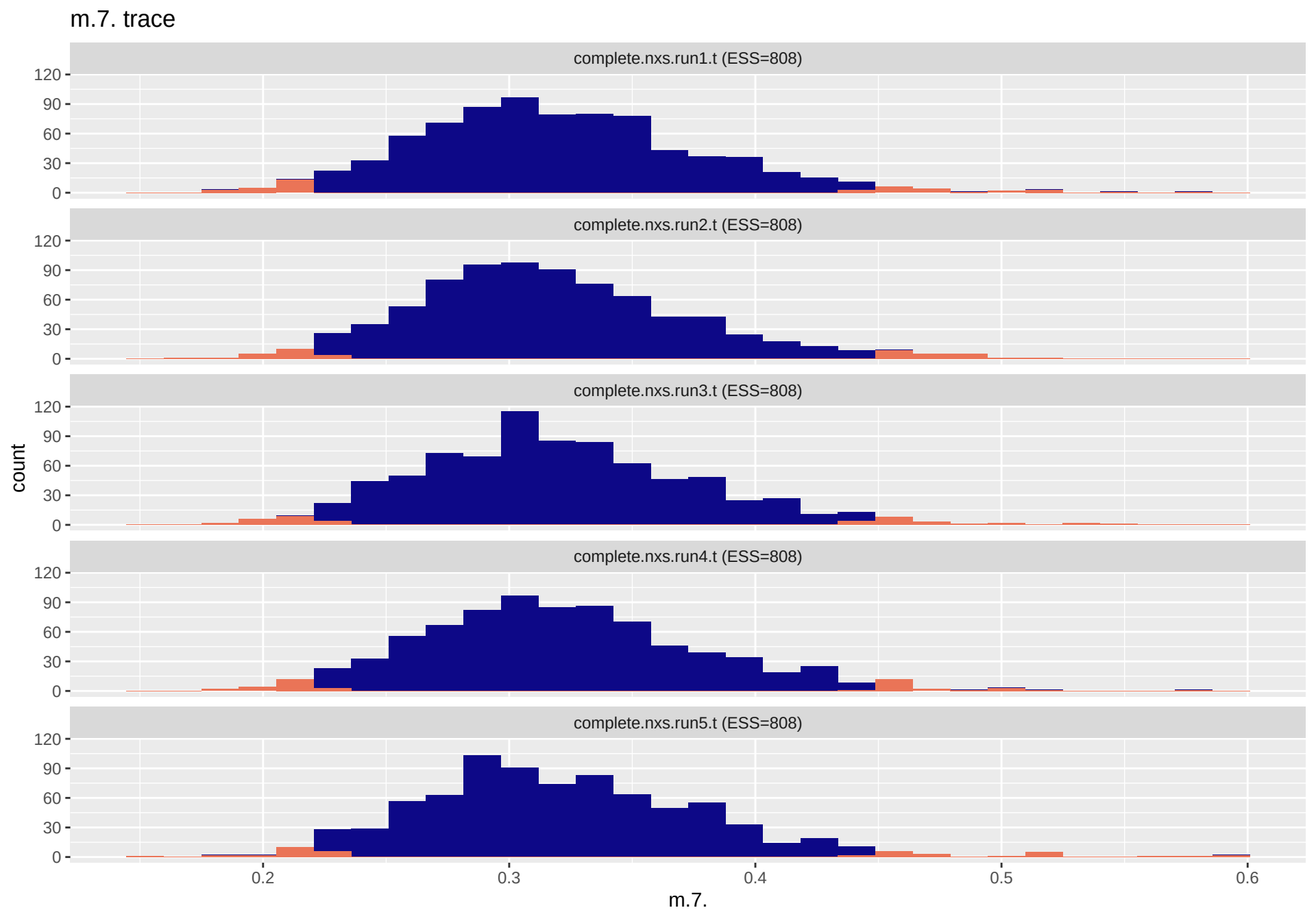

m.5. trace
complete.nxs.run1.t (ESS=652)
complete.nxs.run2.t (ESS=765)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=725)
m.5.
4
3
2e+06
4e+06
6e+06
8e+06
Generation

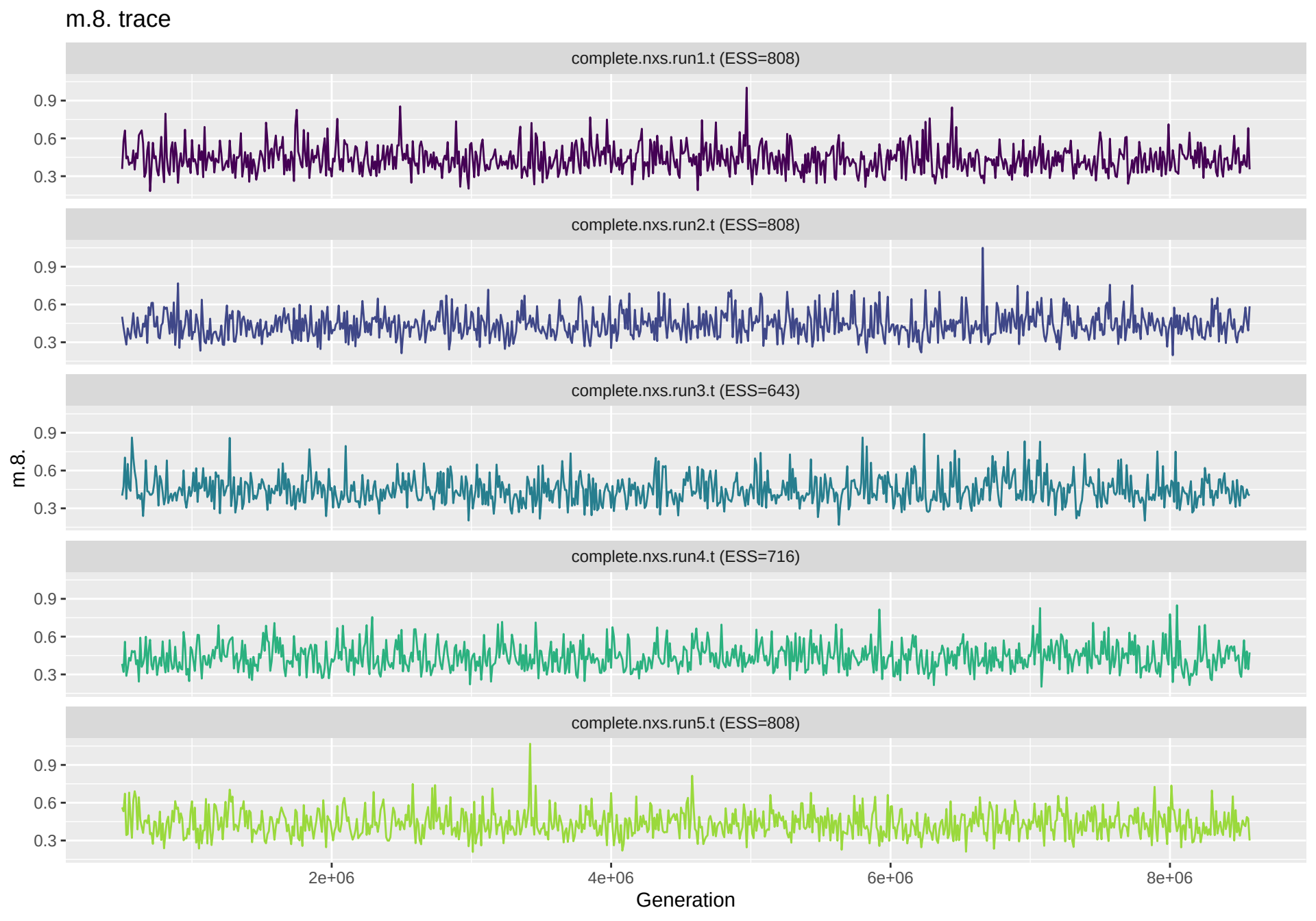

m.5. trace
complete.nxs.run1.t (ESS=652)
complete.nxs.run2.t (ESS=765)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=725)
count
0
25
50
75
3
4
m.5.

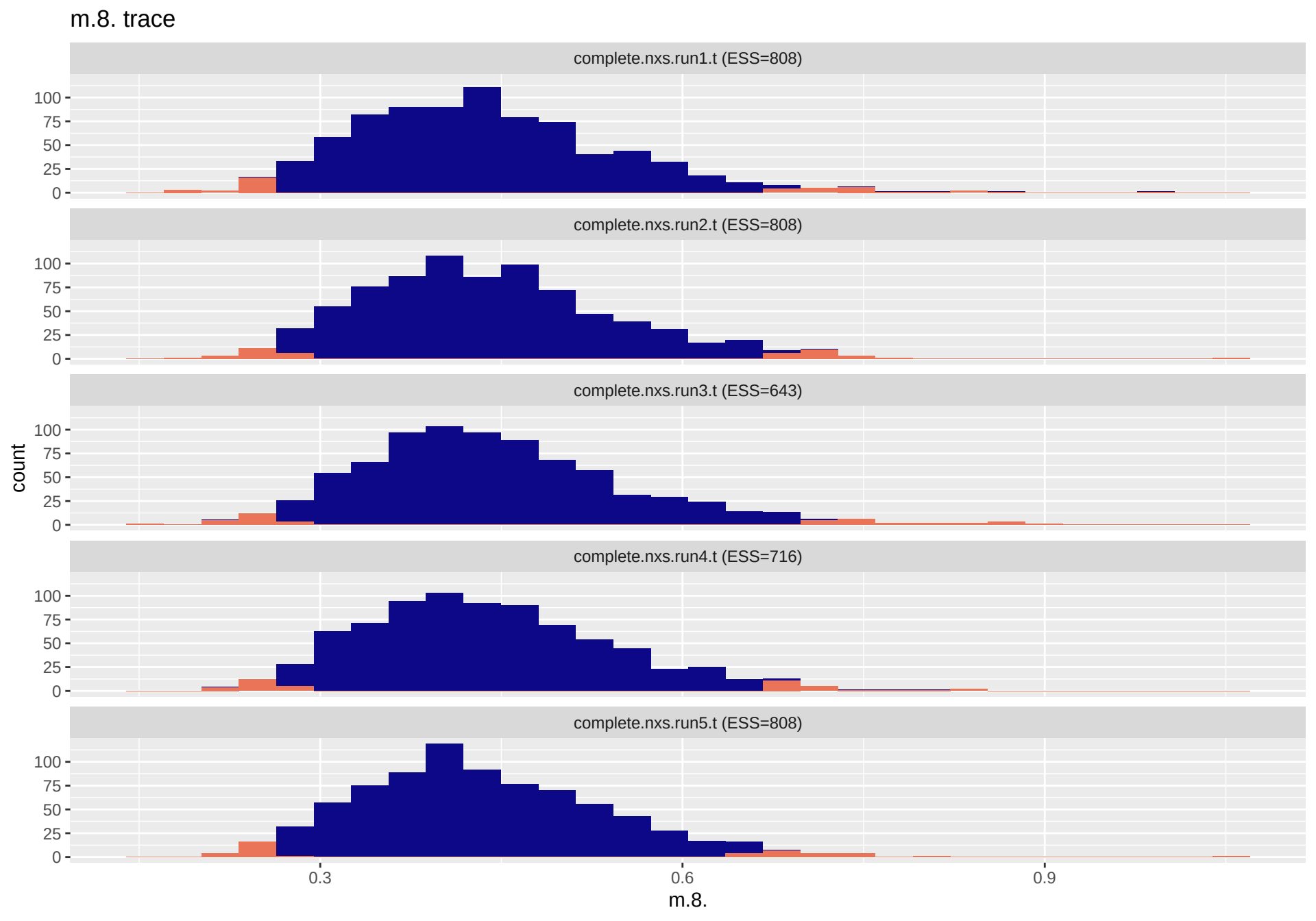

m.6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=711)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=933)
m.6.
2.5
2.0
1.5
2e+06
4e+06
6e+06
8e+06
Generation

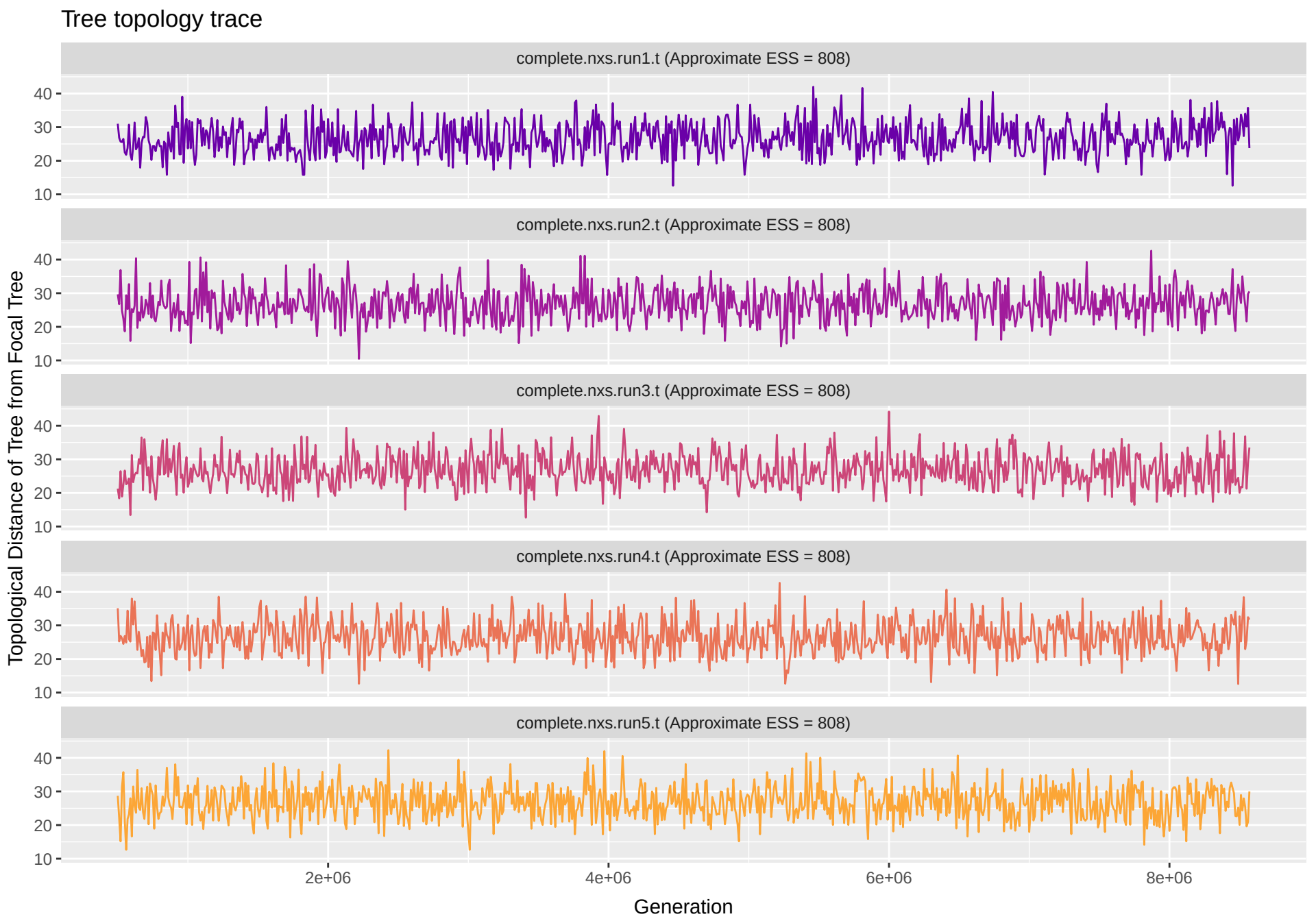

m.6. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=711)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=933)
count
0
25
50
75
100
1.5
2.0
2.5
3.0
m.6.

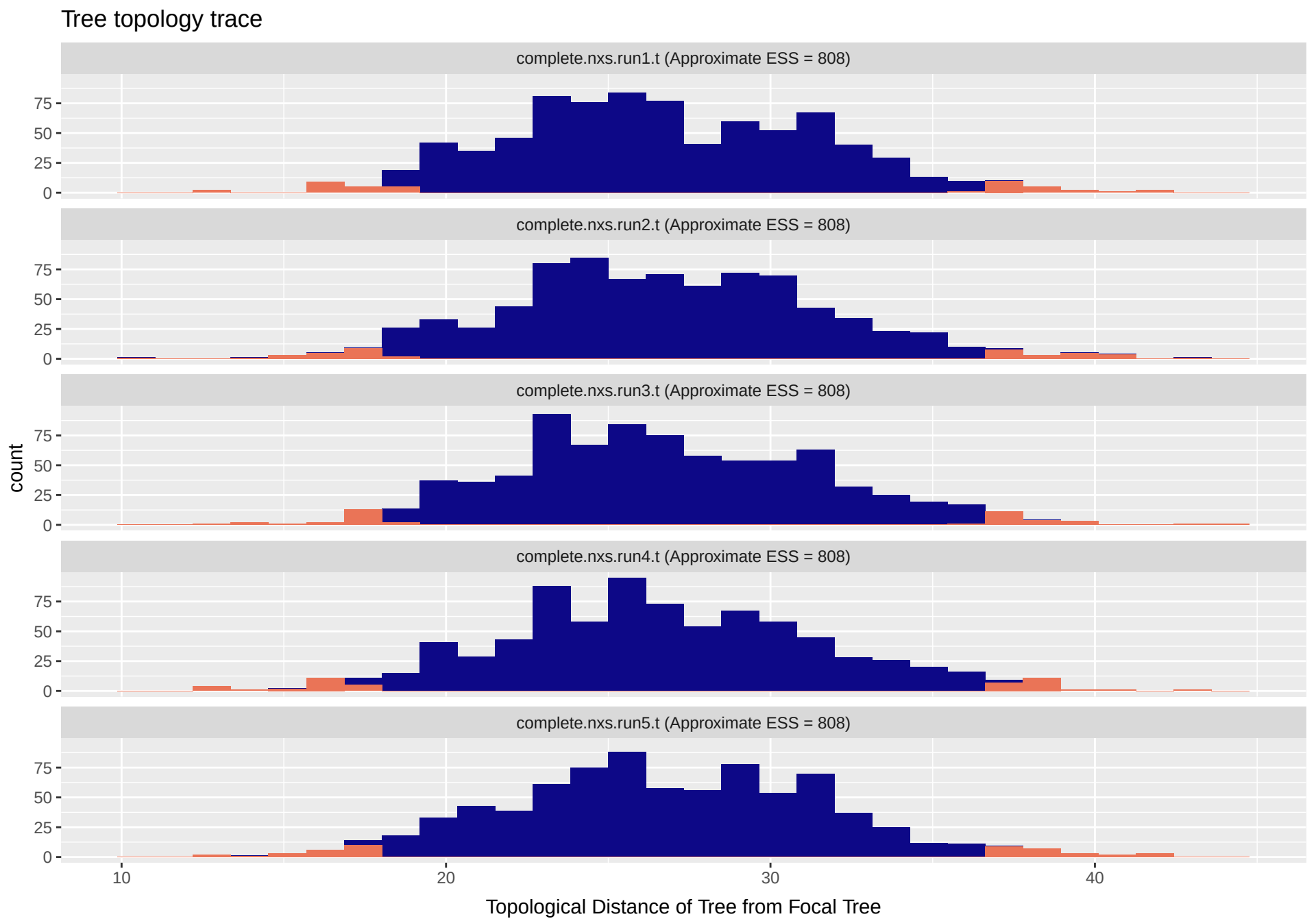

m.7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
m.7.
0.6
0.5
0.4
0.3
0.2
2e+06
4e+06
6e+06
8e+06
Generation

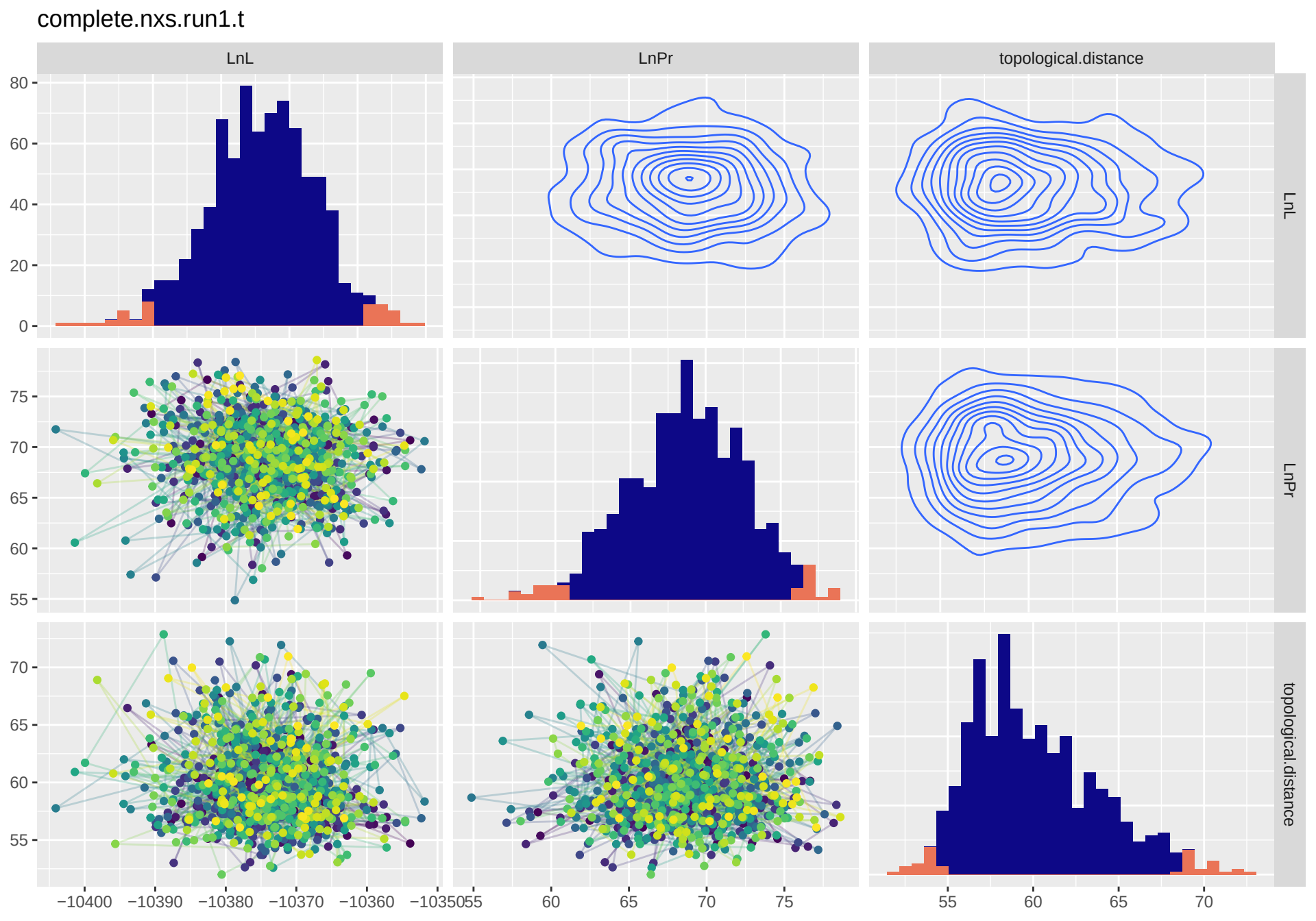

m.7. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=808)
complete.nxs.run4.t (ESS=808)
complete.nxs.run5.t (ESS=808)
count
0
30
60
90
120
0.2
0.3
0.4
0.5
0.6
m.7.

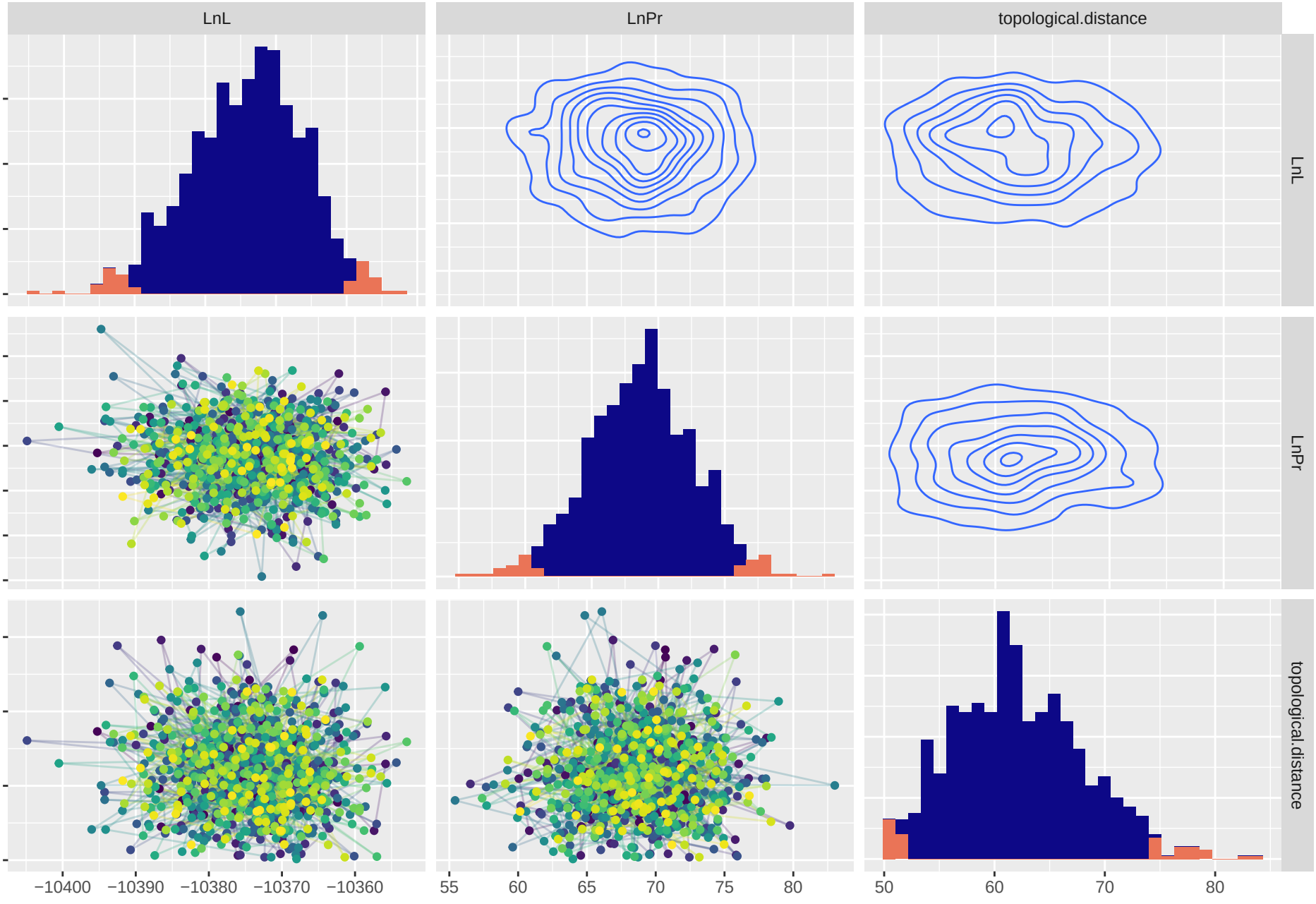

m.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=643)
complete.nxs.run4.t (ESS=716)
complete.nxs.run5.t (ESS=808)
m.8.
0.9
0.6
0.3
2e+06
4e+06
6e+06
8e+06
Generation

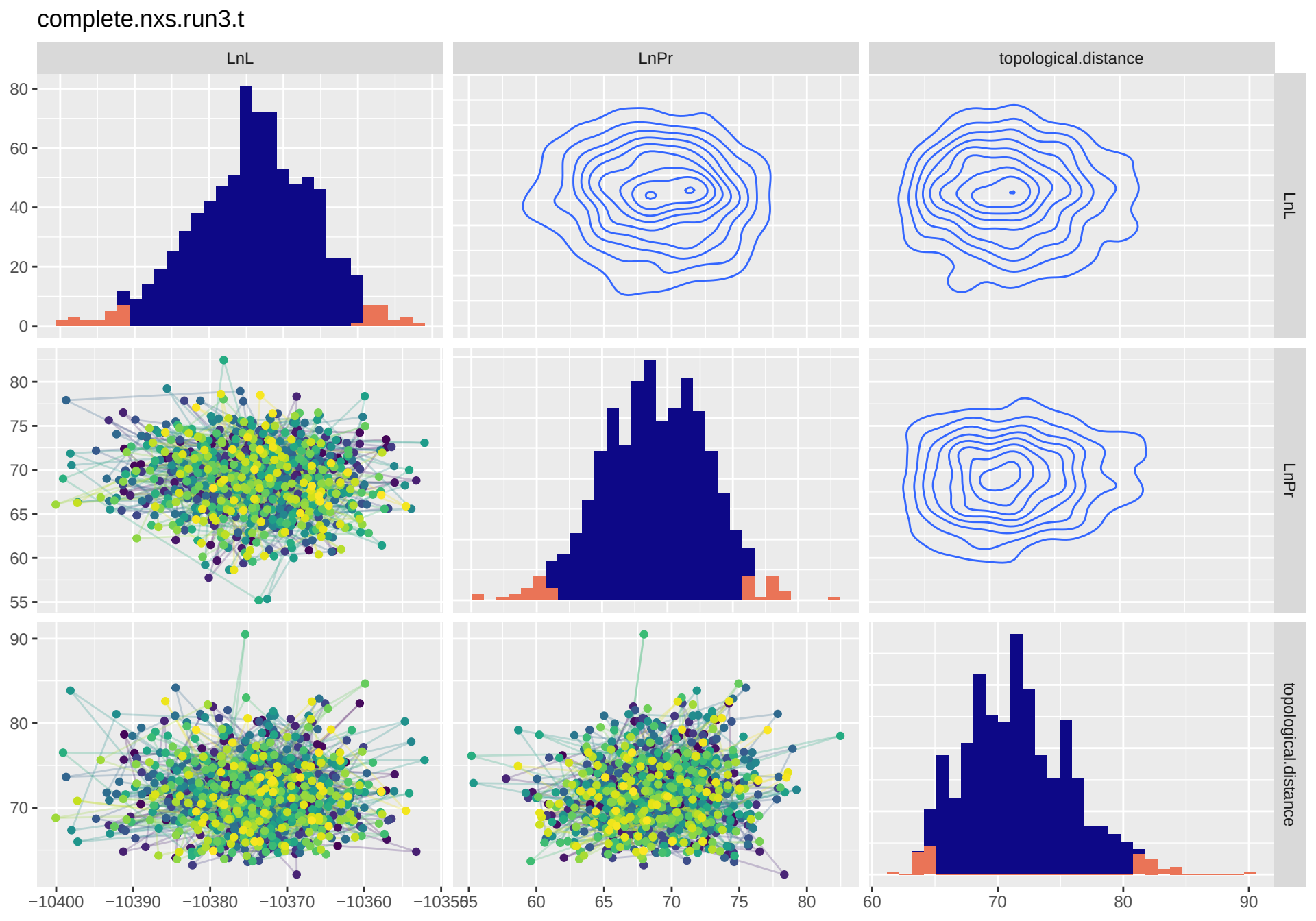

m.8. trace
complete.nxs.run1.t (ESS=808)
complete.nxs.run2.t (ESS=808)
complete.nxs.run3.t (ESS=643)
complete.nxs.run4.t (ESS=716)
complete.nxs.run5.t (ESS=808)
count
0
25
50
75
100
0.3
0.6
0.9
m.8.

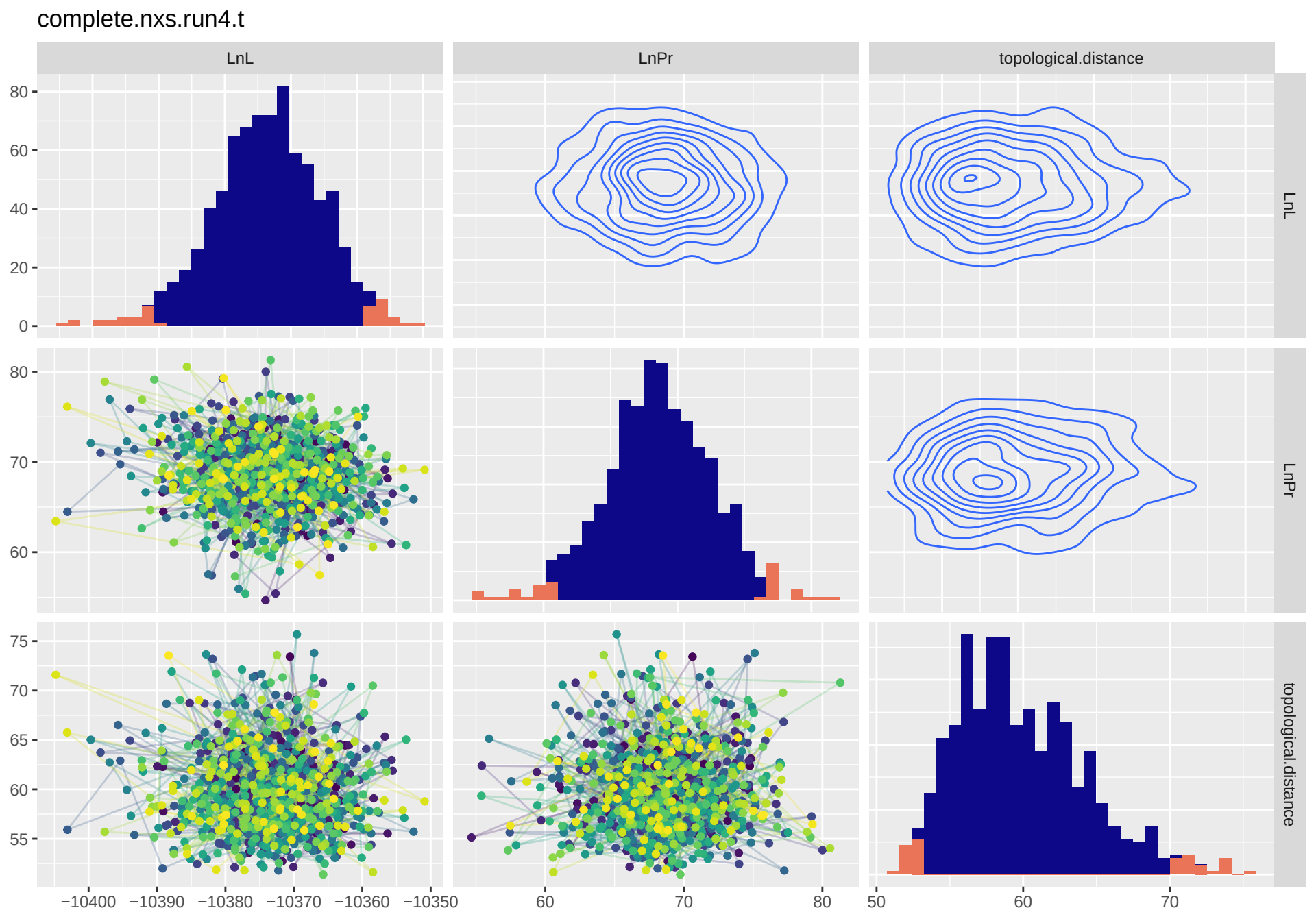

Tree topology trace
complete.nxs.run1.t (Approximate ESS = 808)
complete.nxs.run2.t (Approximate ESS = 808)
complete.nxs.run3.t (Approximate ESS = 808)
complete.nxs.run4.t (Approximate ESS = 808)
complete.nxs.run5.t (Approximate ESS = 808)
Topological Distance of Tree from Focal Tree
40
30
20
10
2e+06
4e+06
6e+06
8e+06
Generation

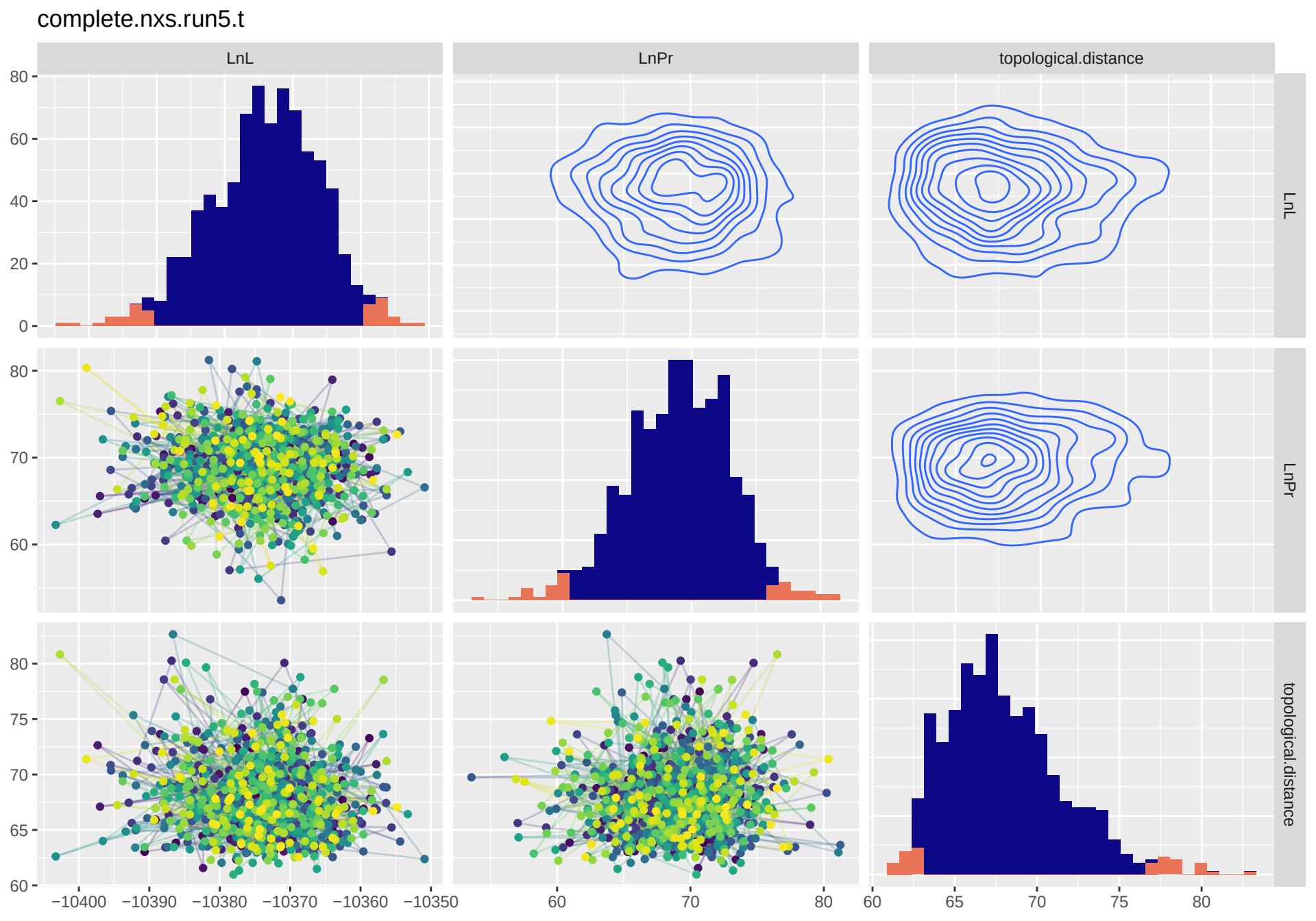

Tree topology trace
complete.nxs.run1.t (Approximate ESS = 808)
complete.nxs.run2.t (Approximate ESS = 808)
complete.nxs.run3.t (Approximate ESS = 808)
complete.nxs.run4.t (Approximate ESS = 808)
complete.nxs.run5.t (Approximate ESS = 808)
count
0
25
50
75
10
20
30
40
Topological Distance of Tree from Focal Tree

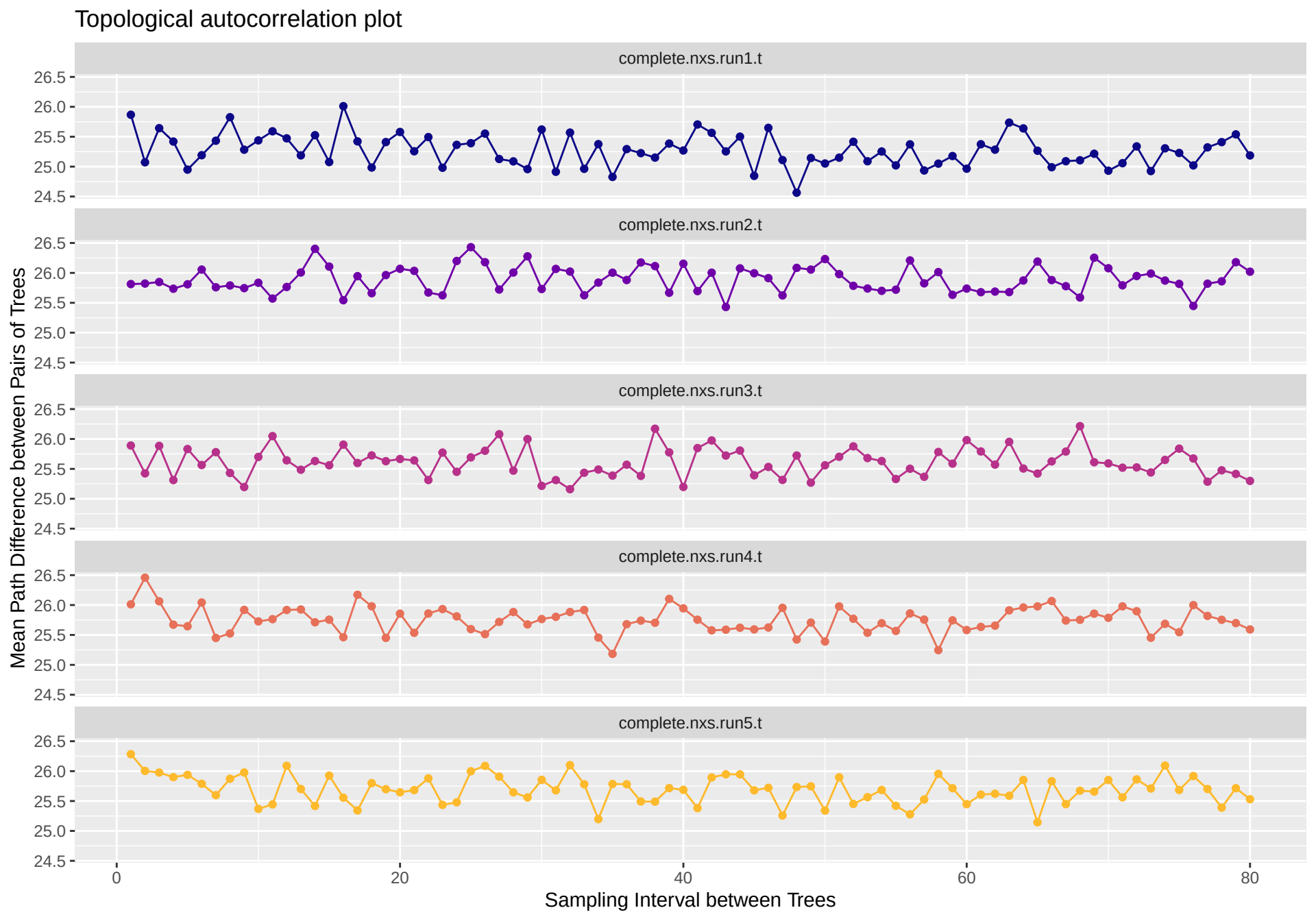

complete.nxs.run1.t
LnL
LnPr
topological.distance
LnL
LnPr
topological.distance
80
60
40
20
0
75
70
65
60
55
70
65
60
55
−10400
−10390
−10380
−10370
−10360
−1035055
60
65
70
75
55
60
65
70

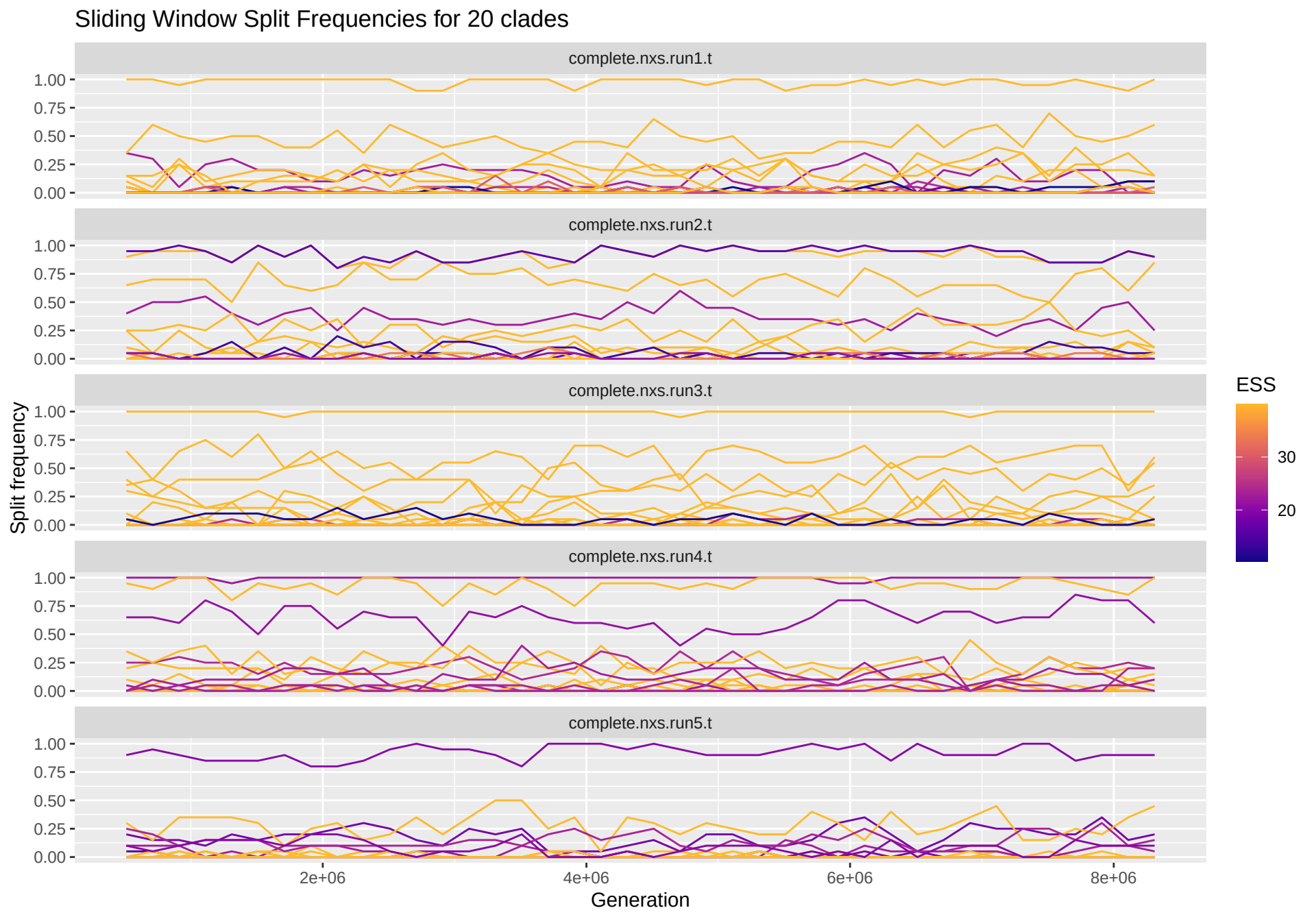

complete.nxs.run2.t
LnL
LnPr
topological.distance
LnL
LnPr
topological.distance
60
40
20
0
80
75
70
65
60
55
80
70
60
50
−10400
−10390
−10380
−10370
−10360
55
60
65
70
75
80
50
60
70
80

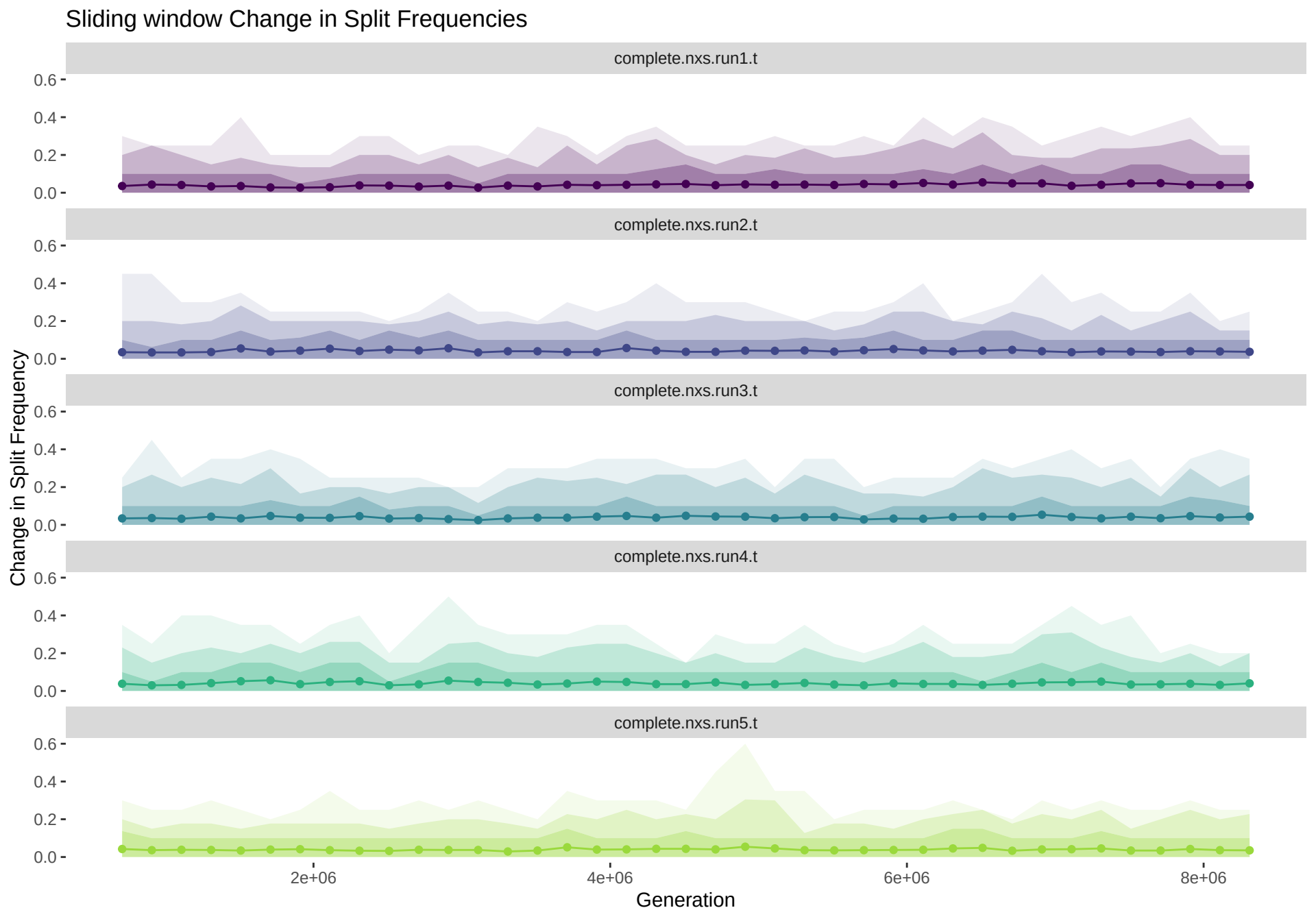

complete.nxs.run3.t
LnL
LnPr
topological.distance
LnL
LnPr
topological.distance
80
60
40
20
0
80
75
70
65
60
55
90
80
70
−10400
−10390
−10380
−10370
−10360
−10350
55
60
65
70
75
80
60
70
80
90

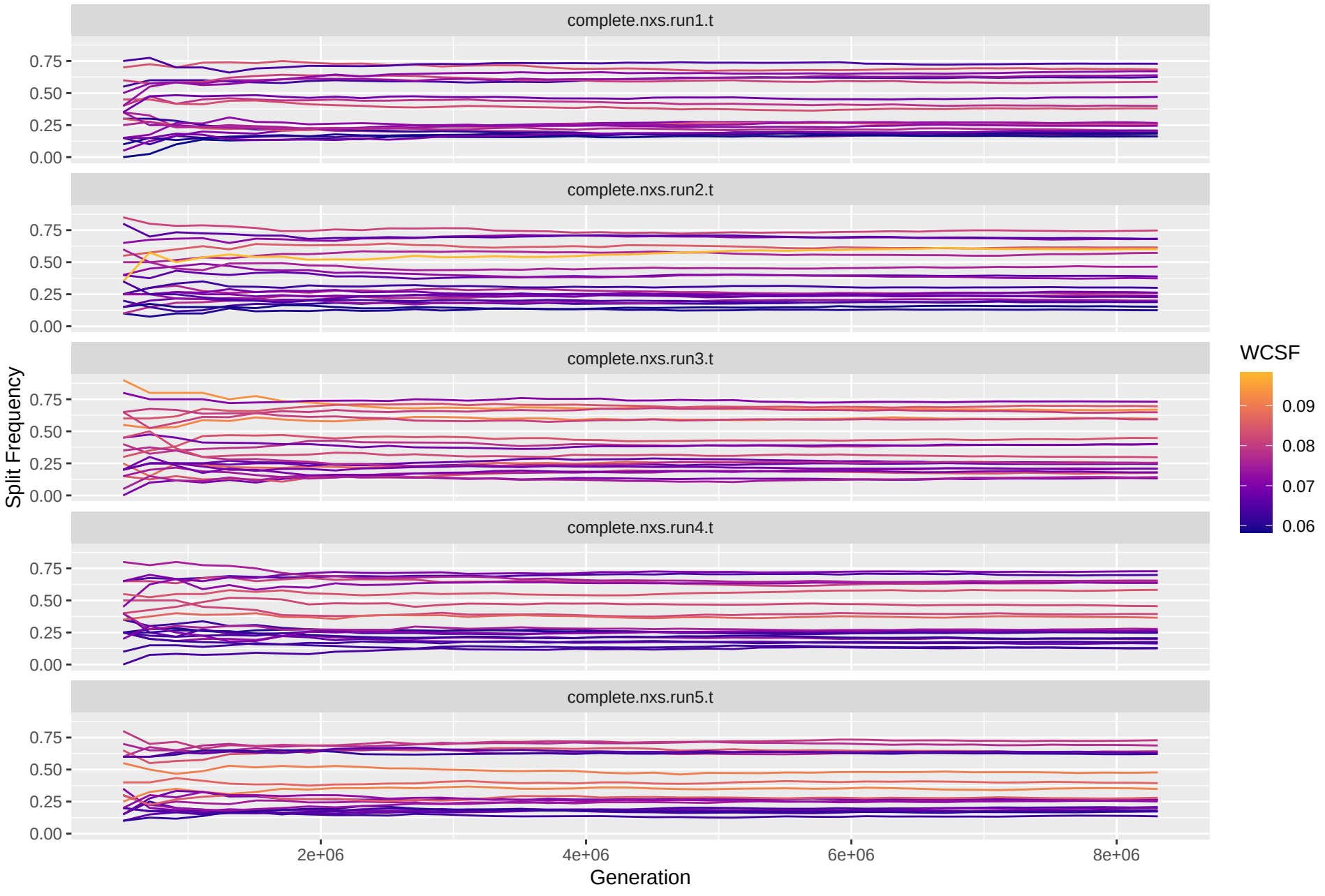

complete.nxs.run4.t
LnL
LnPr
topological.distance
LnL
LnPr
topological.distance
80
60
40
20
0
80
70
60
75
70
65
60
55
−10400
−10390
−10380
−10370
−10360
−10350
60
70
80
50
60
70

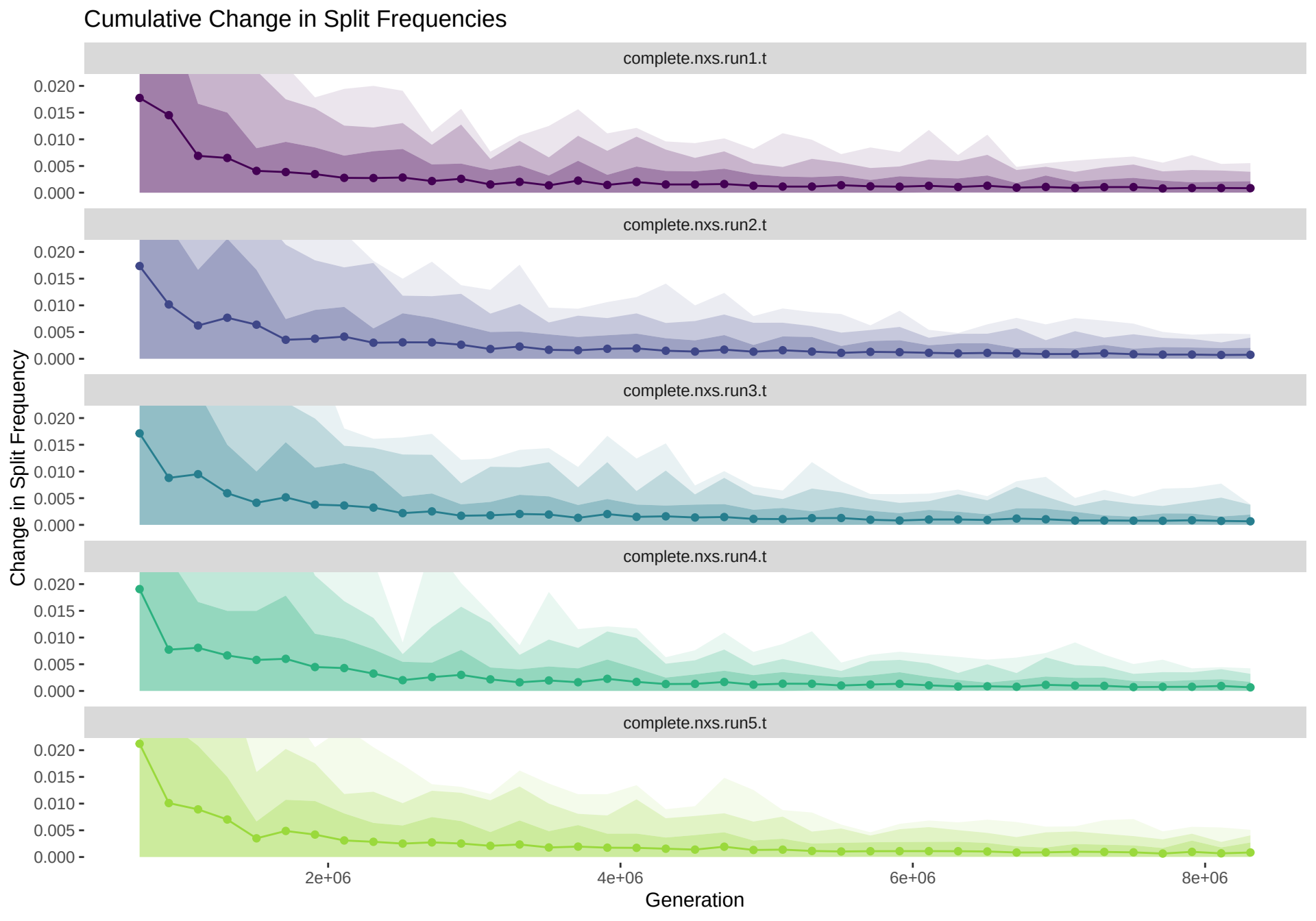

complete.nxs.run5.t
LnL
LnPr
topological.distance
LnL
LnPr
topological.distance
80
60
40
20
0
80
70
60
80
75
70
65
60
−10400
−10390
−10380
−10370
−10360
−10350
60
70
80
60
65
70
75
80

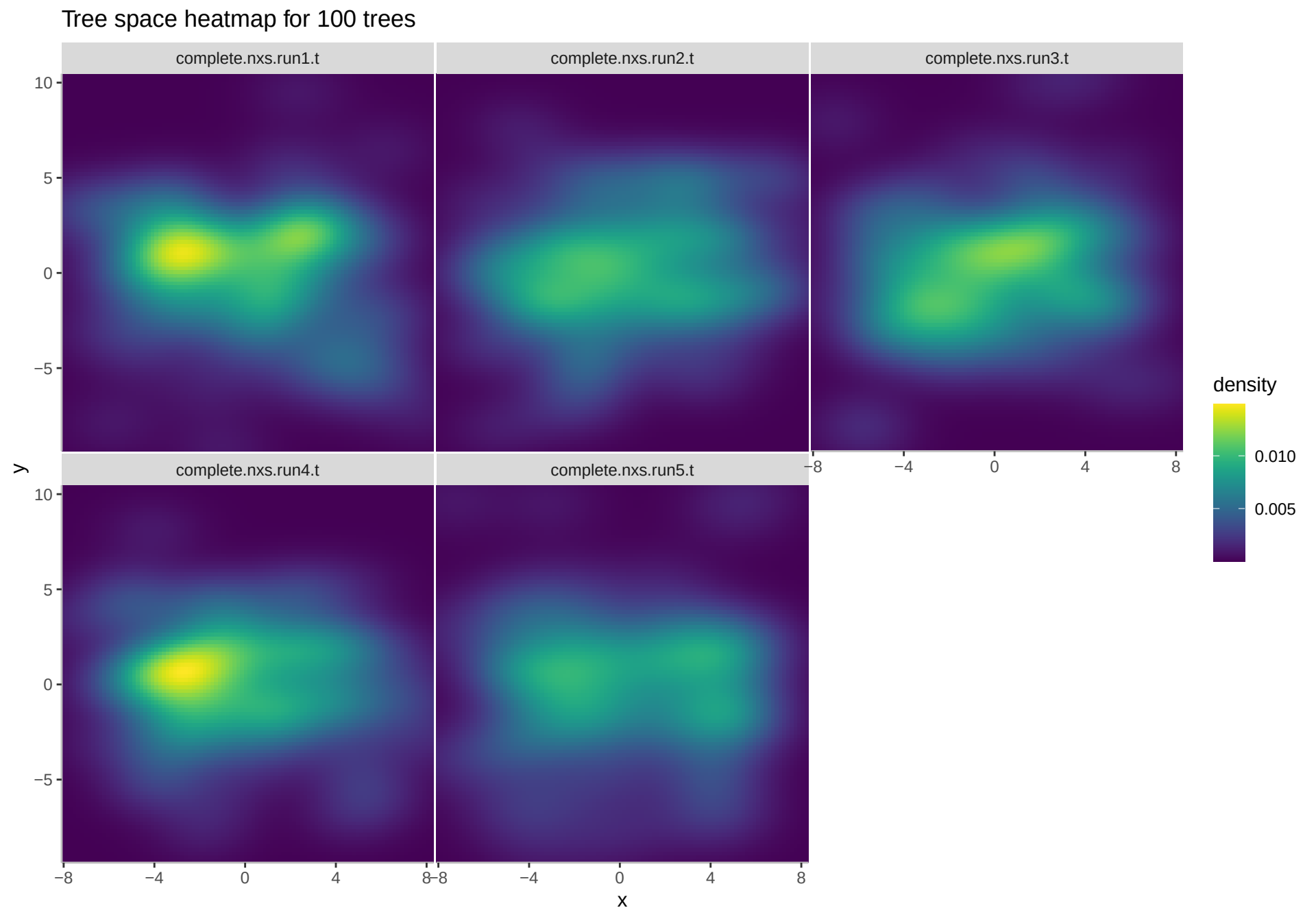

Topological autocorrelation plot
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
Mean Path Difference between Pairs of Trees
Sampling Interval between Trees
26.5
26.0
25.5
25.0
24.5
0
20
40
60
80

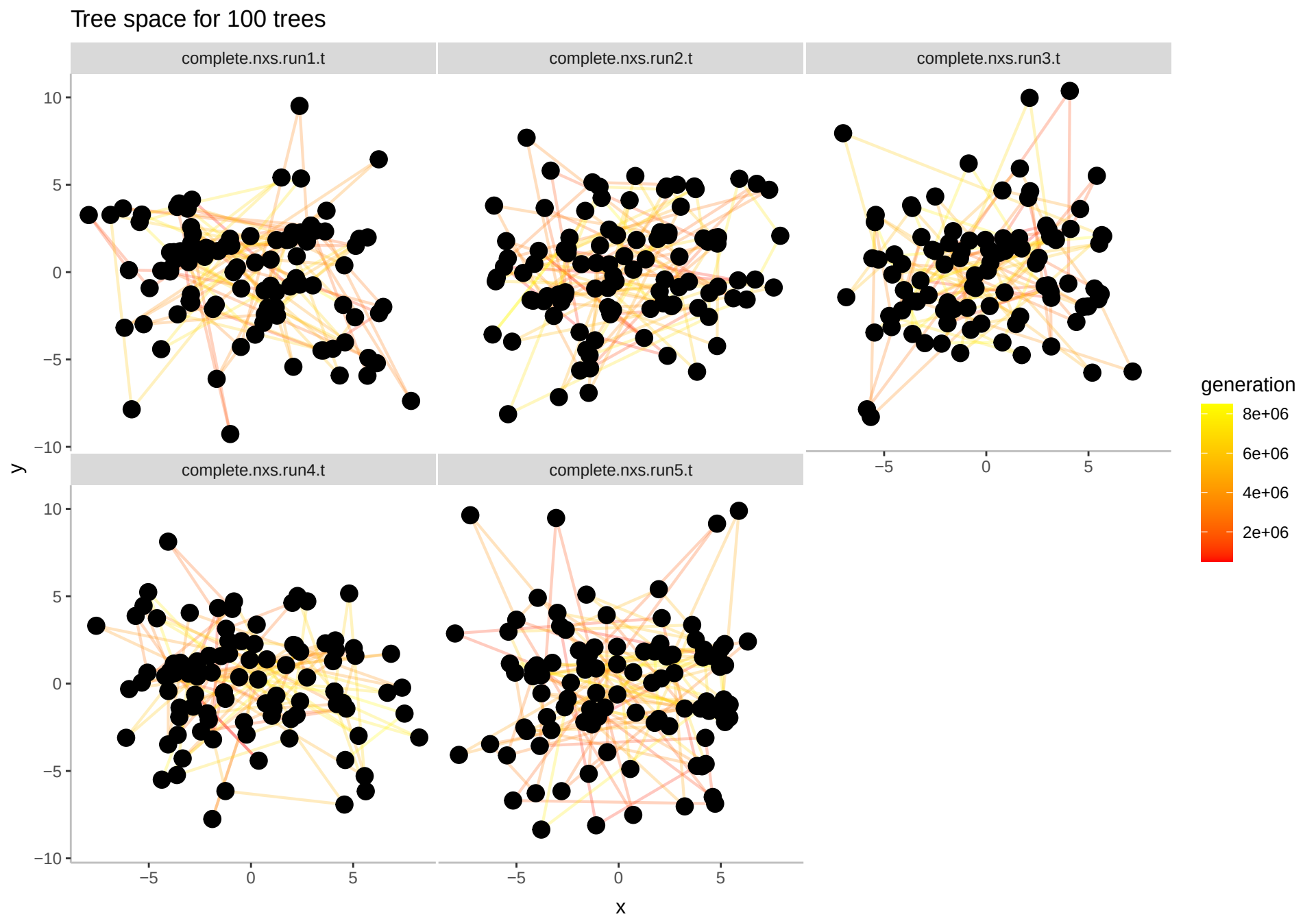

Sliding Window Split Frequencies for 20 clades
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
Split frequency
1.00
0.75
0.50
0.25
0.00
2e+06
4e+06
6e+06
8e+06
Generation
ESS
30
20

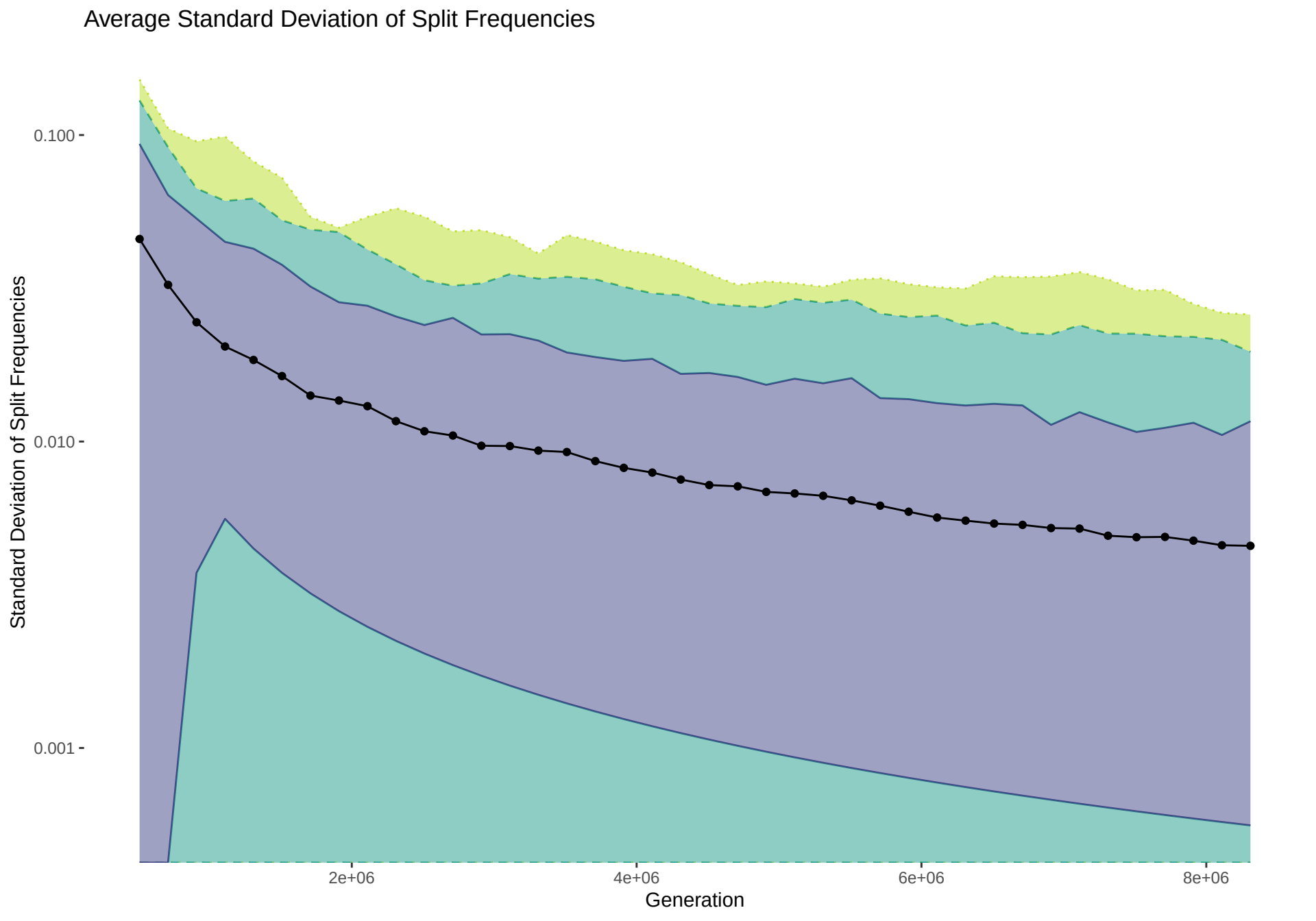

Sliding window Change in Split Frequencies
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
Change in Split Frequency
0.0
0.2
0.4
0.6
2e+06
4e+06
6e+06
8e+06
Generation

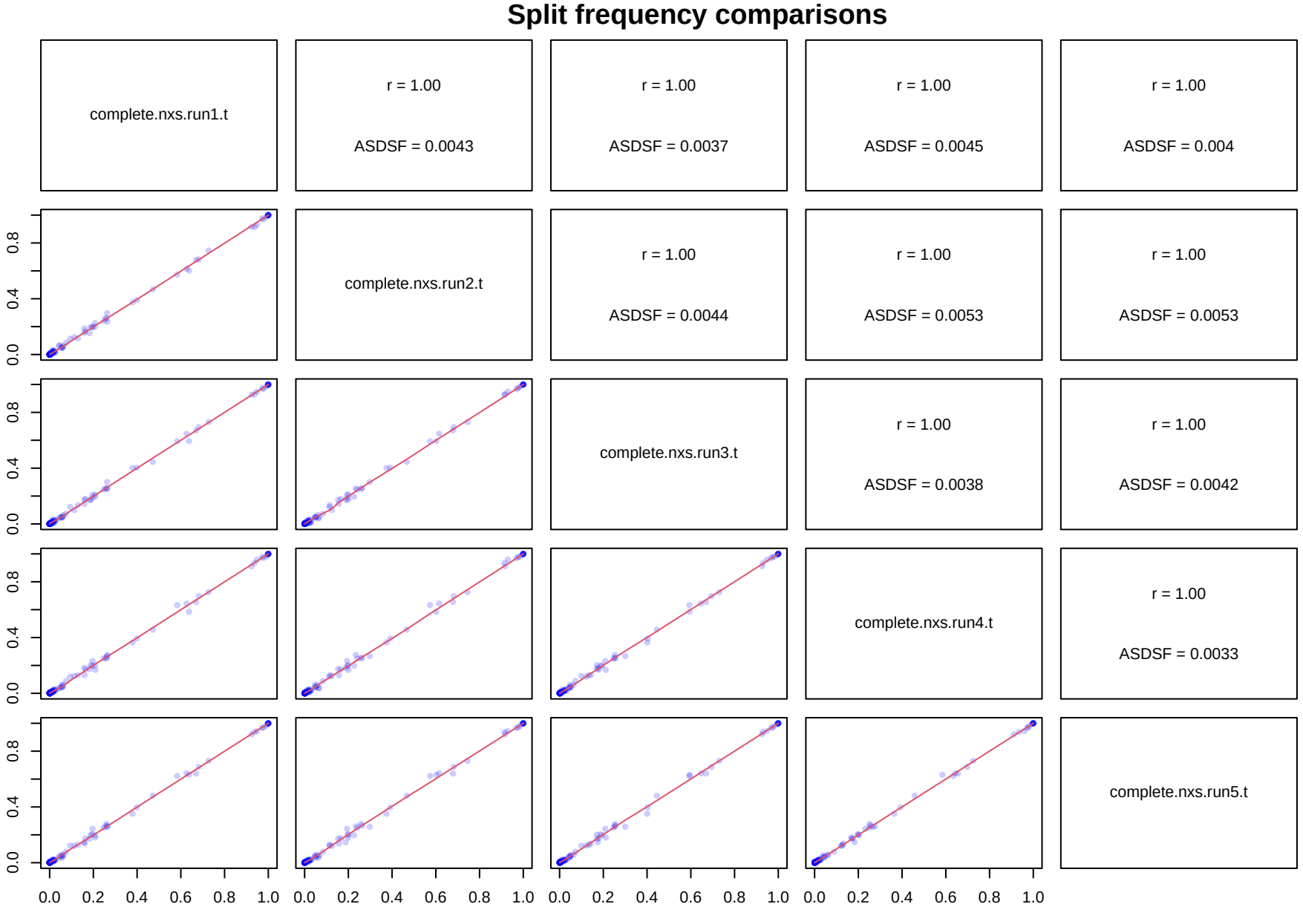

Cumulative Split Frequencies for 20 clades
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
Split Frequency
0.00
0.25
0.50
0.75
2e+06
4e+06
6e+06
8e+06
Generation
WCSF
0.09
0.08
0.07
0.06

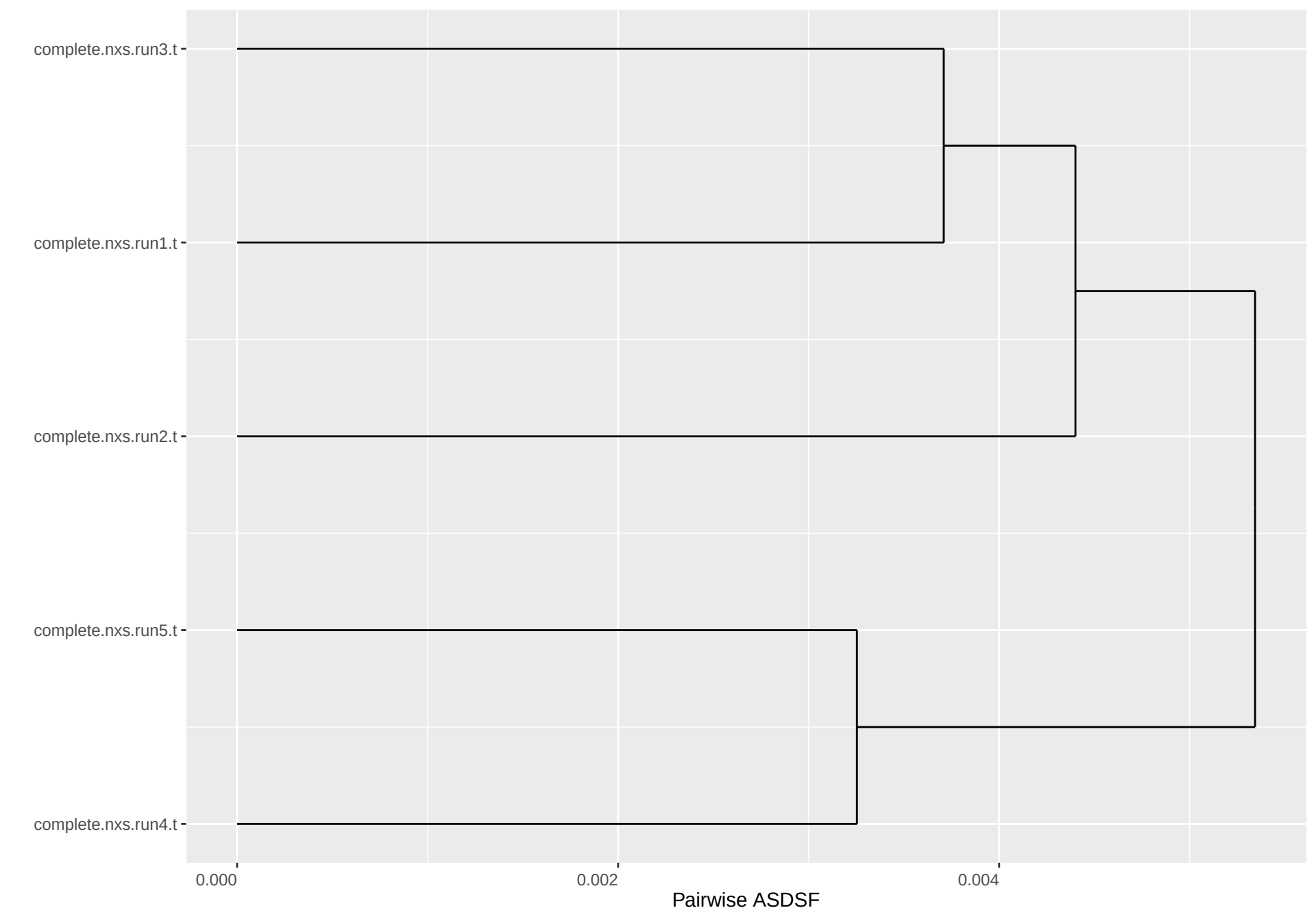

Cumulative Change in Split Frequencies
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
Change in Split Frequency
0.020
0.015
0.010
0.005
0.000
2e+06
4e+06
6e+06
8e+06
Generation


Tree space heatmap for 100 trees
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
y
x
density
0.010
0.005
10
5
0
−5
−8
−4
0
4
8


Tree space for 100 trees
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run3.t
complete.nxs.run4.t
complete.nxs.run5.t
y
x
10
5
0
−5
−10
−5
0
5
generation
8e+06
6e+06
4e+06
2e+06


Average Standard Deviation of Split Frequencies
Standard Deviation of Split Frequencies
0.100
0.010
0.001
2e+06
4e+06
6e+06
8e+06
Generation


Split frequency comparisons
complete.nxs.run1.t
r = 1.00
ASDSF = 0.0043
r = 1.00
ASDSF = 0.0037
r = 1.00
ASDSF = 0.0045
r = 1.00
ASDSF = 0.004
complete.nxs.run2.t
r = 1.00
ASDSF = 0.0044
r = 1.00
ASDSF = 0.0053
r = 1.00
ASDSF = 0.0053
complete.nxs.run3.t
r = 1.00
ASDSF = 0.0038
r = 1.00
ASDSF = 0.0042
complete.nxs.run4.t
r = 1.00
ASDSF = 0.0033
complete.nxs.run5.t
0.0
0.4
0.8
0.0
0.2
0.4
0.6
0.8
1.0


complete.nxs.run3.t
complete.nxs.run1.t
complete.nxs.run2.t
complete.nxs.run5.t
complete.nxs.run4.t
0.000
0.002
0.004
Pairwise ASDSF