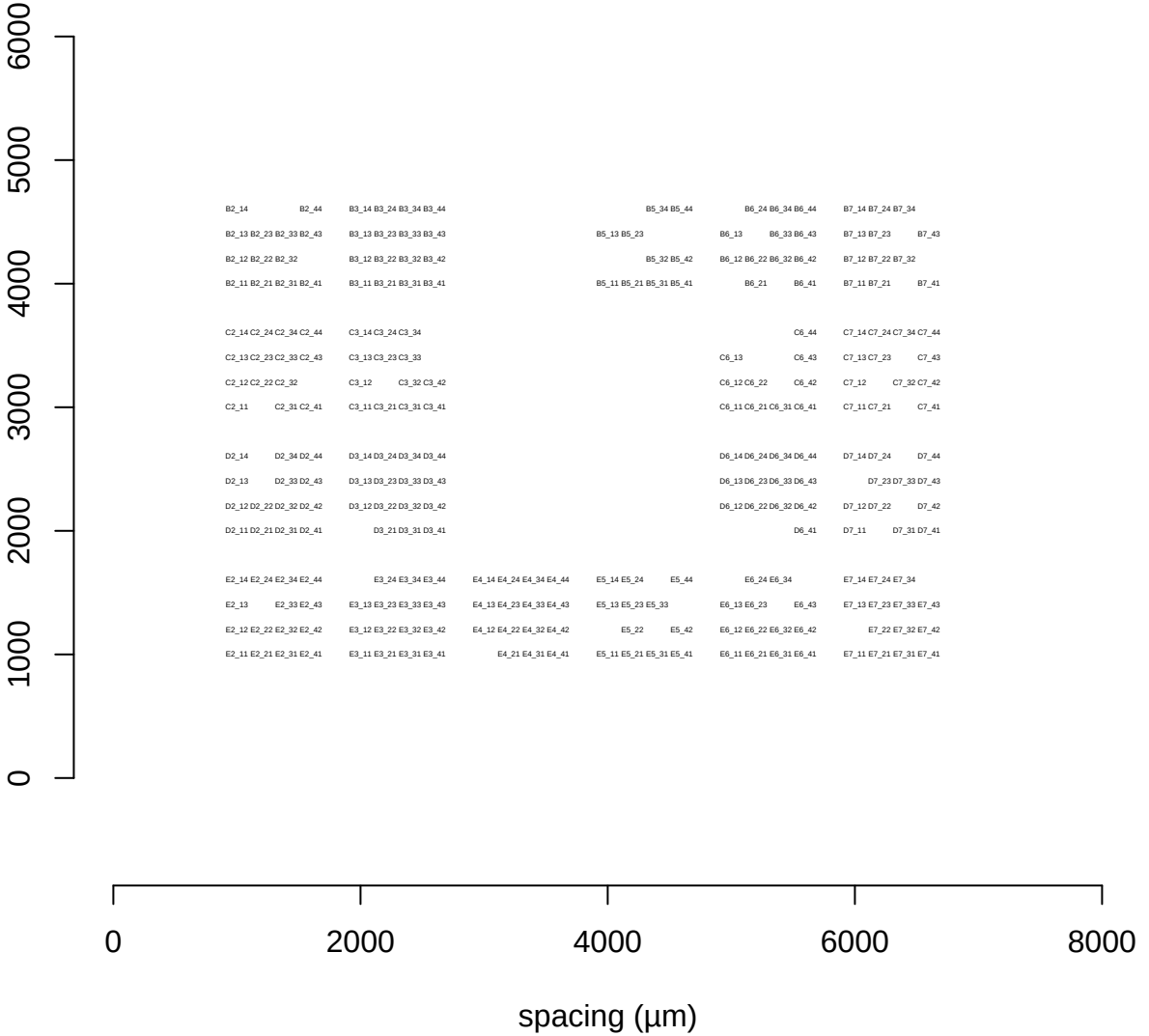
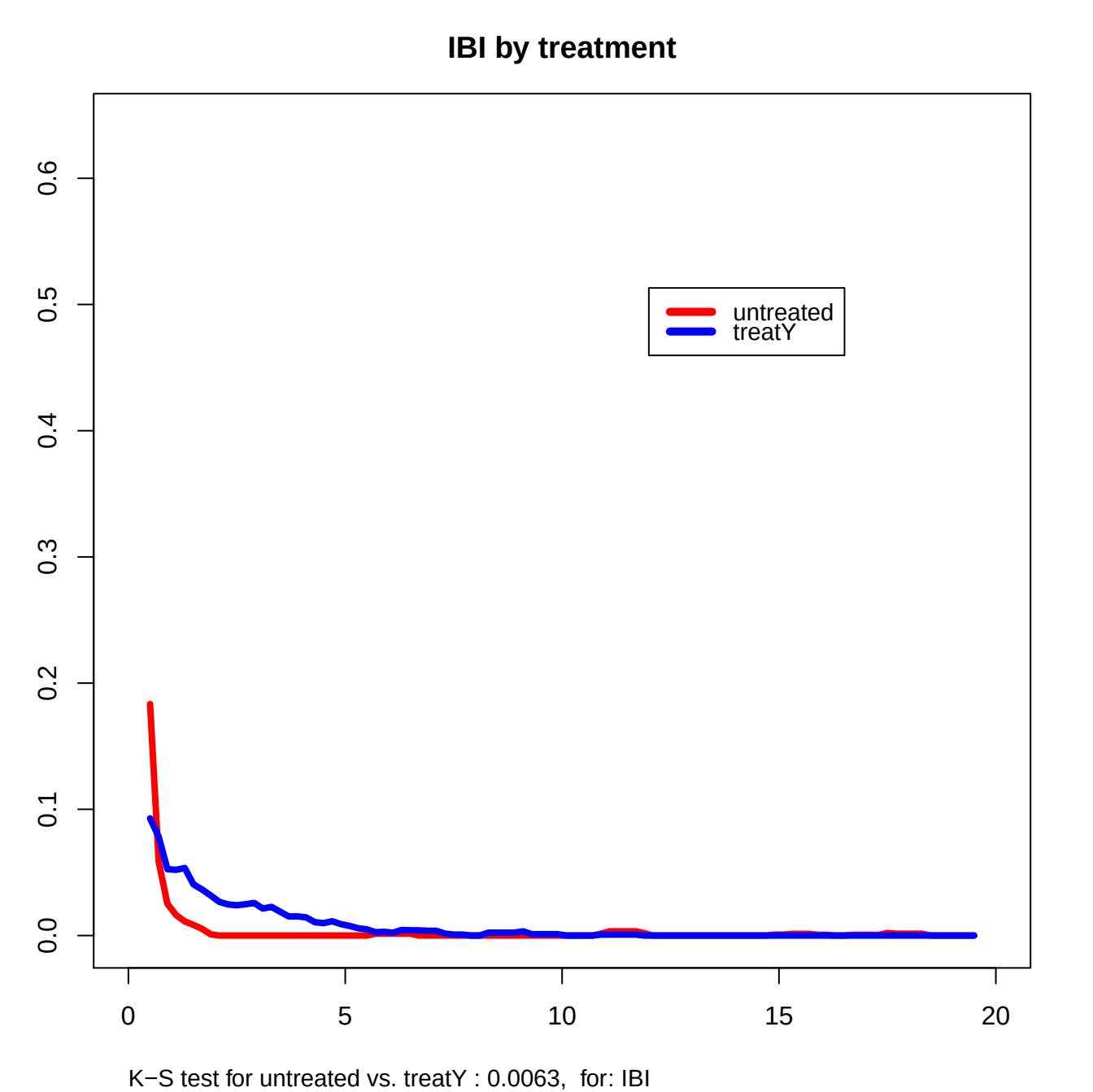
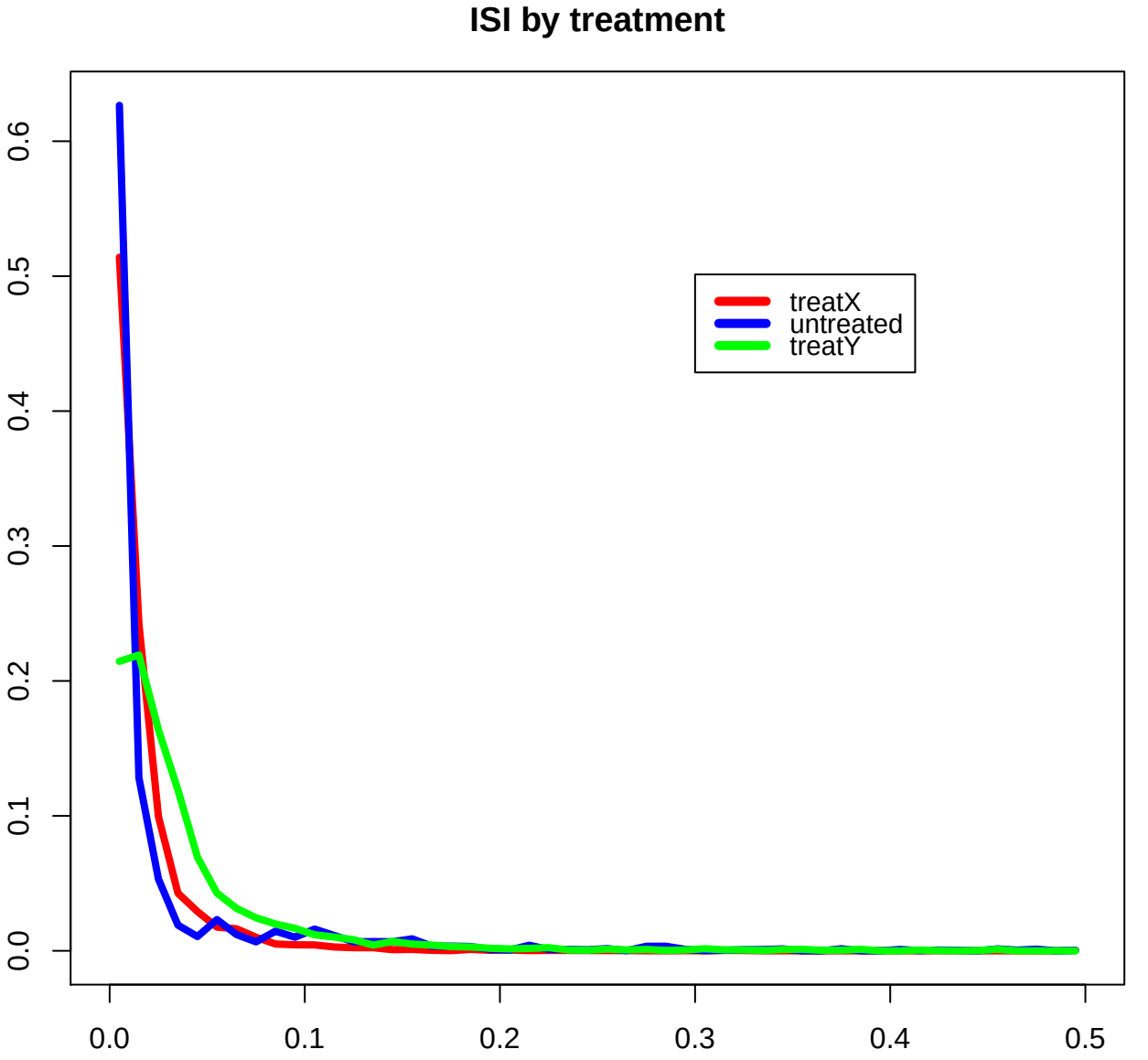
Electrode Layout
file= exampleRecording_1012016_plate1_DIV4

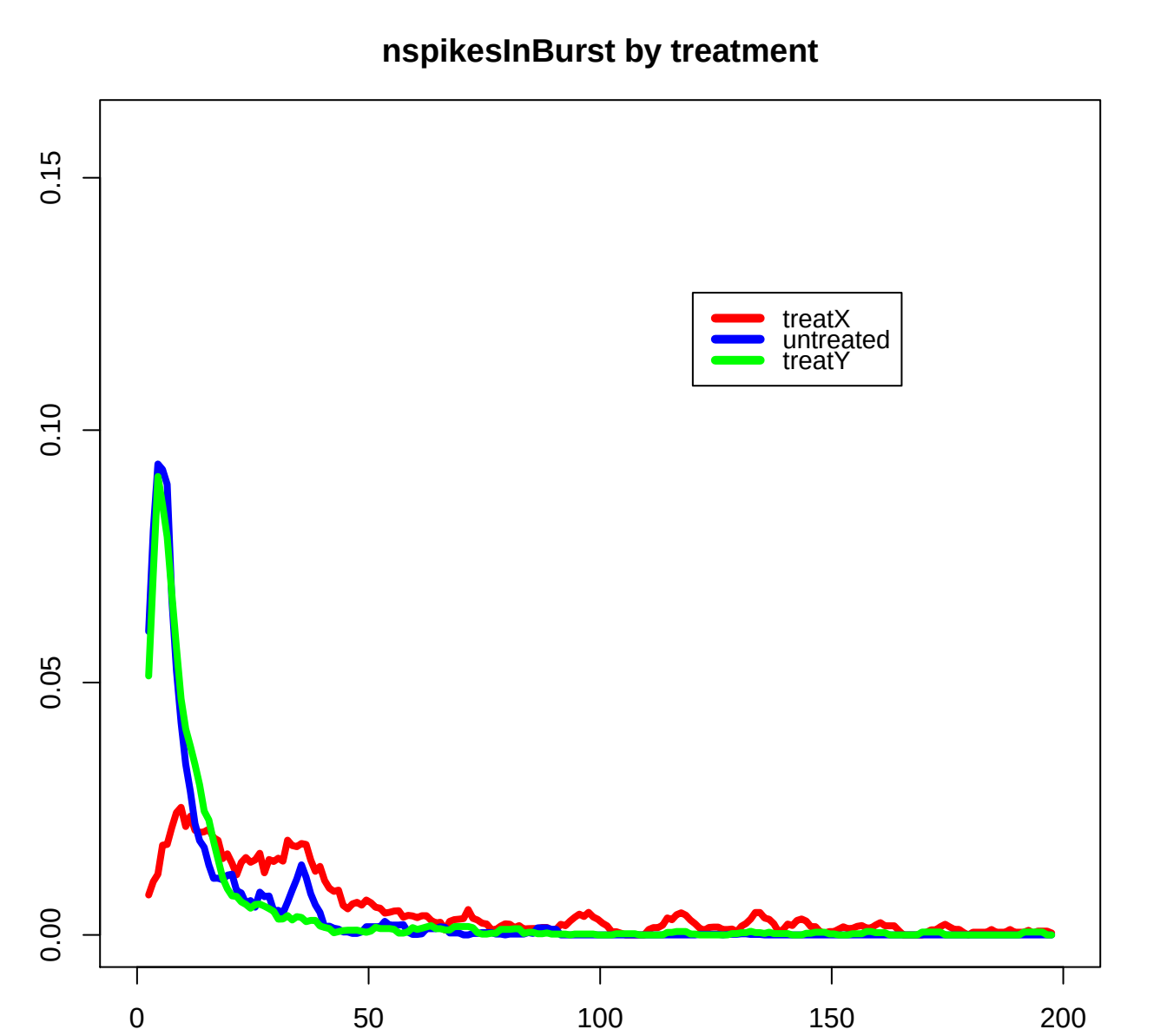




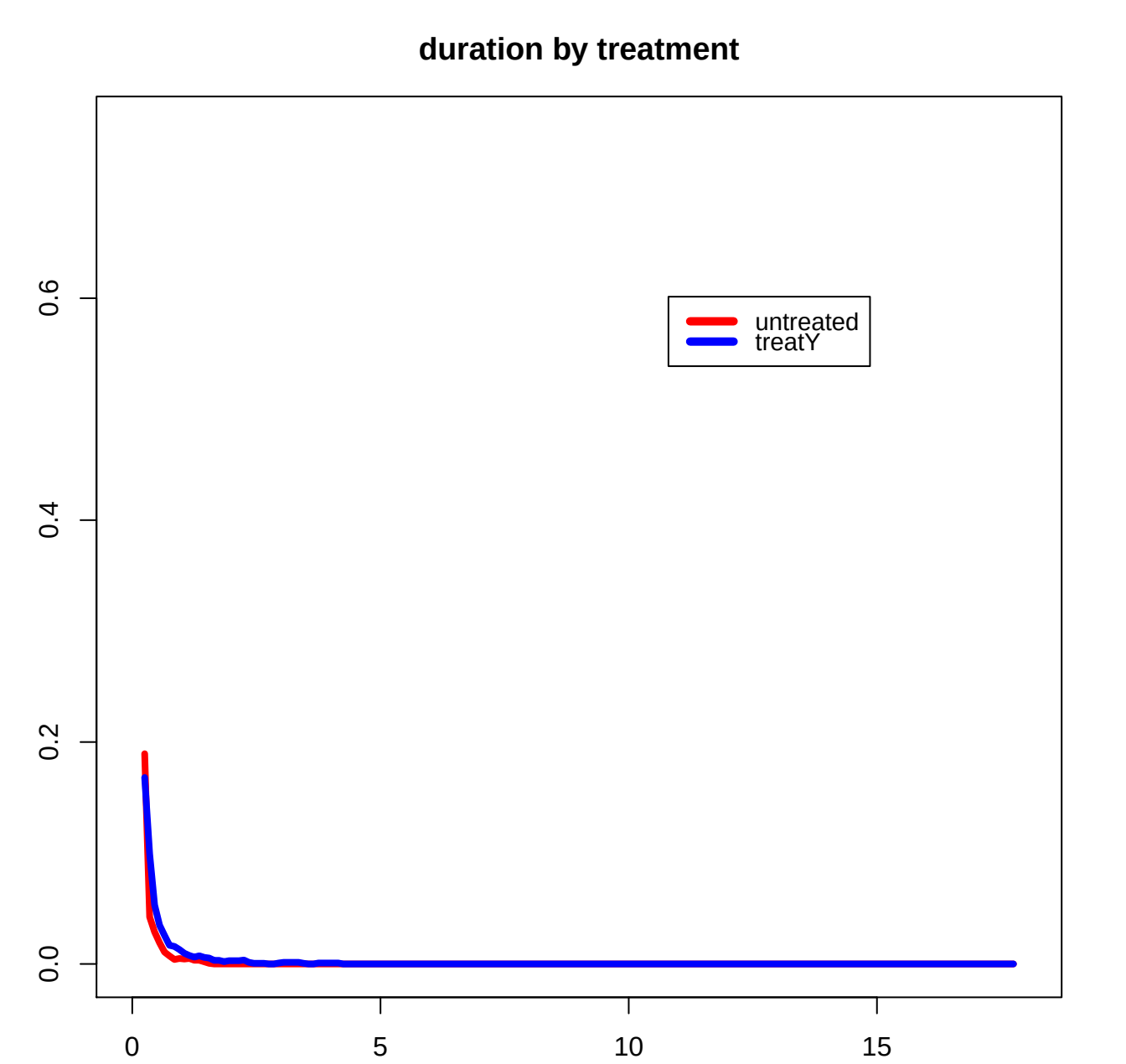
K−S test for untreated vs. treatY : 0.0063, for: IBI



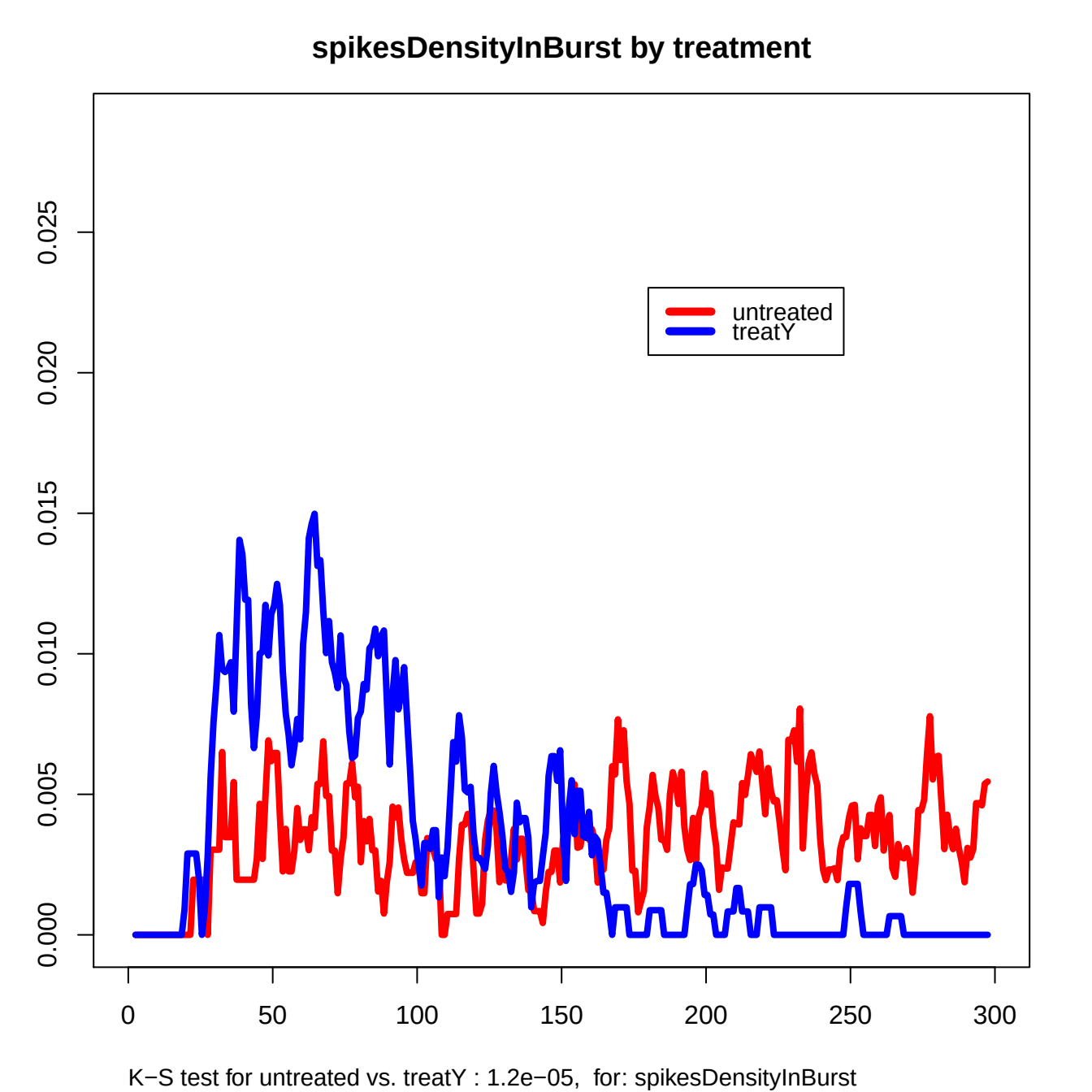
K−S test for treatX vs. untreated : 0.00013, for: ISI
K−S test for treatX vs. treatY : 0.00067, for: ISI
K−S test for untreated vs. treatY : 0.96, for: ISI

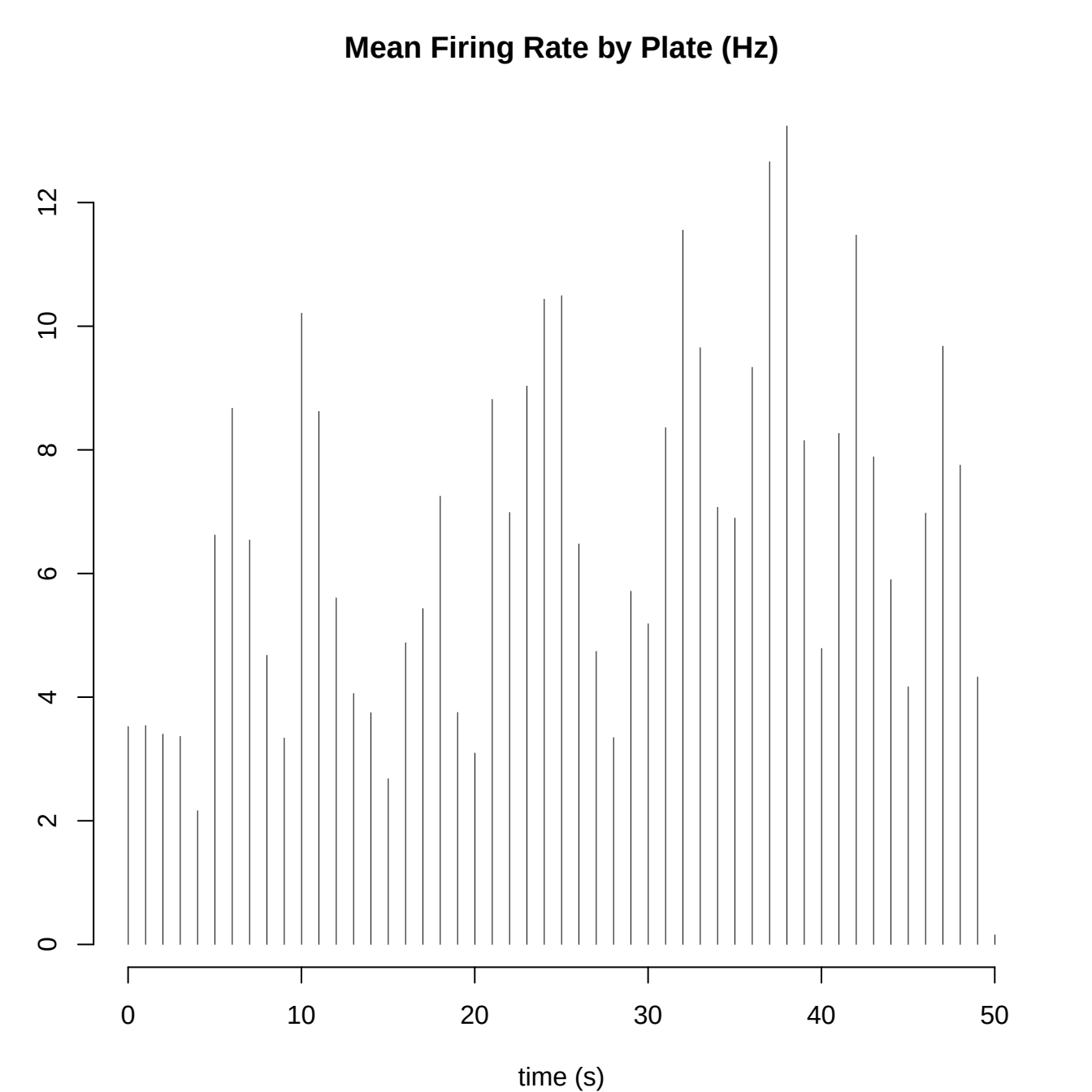


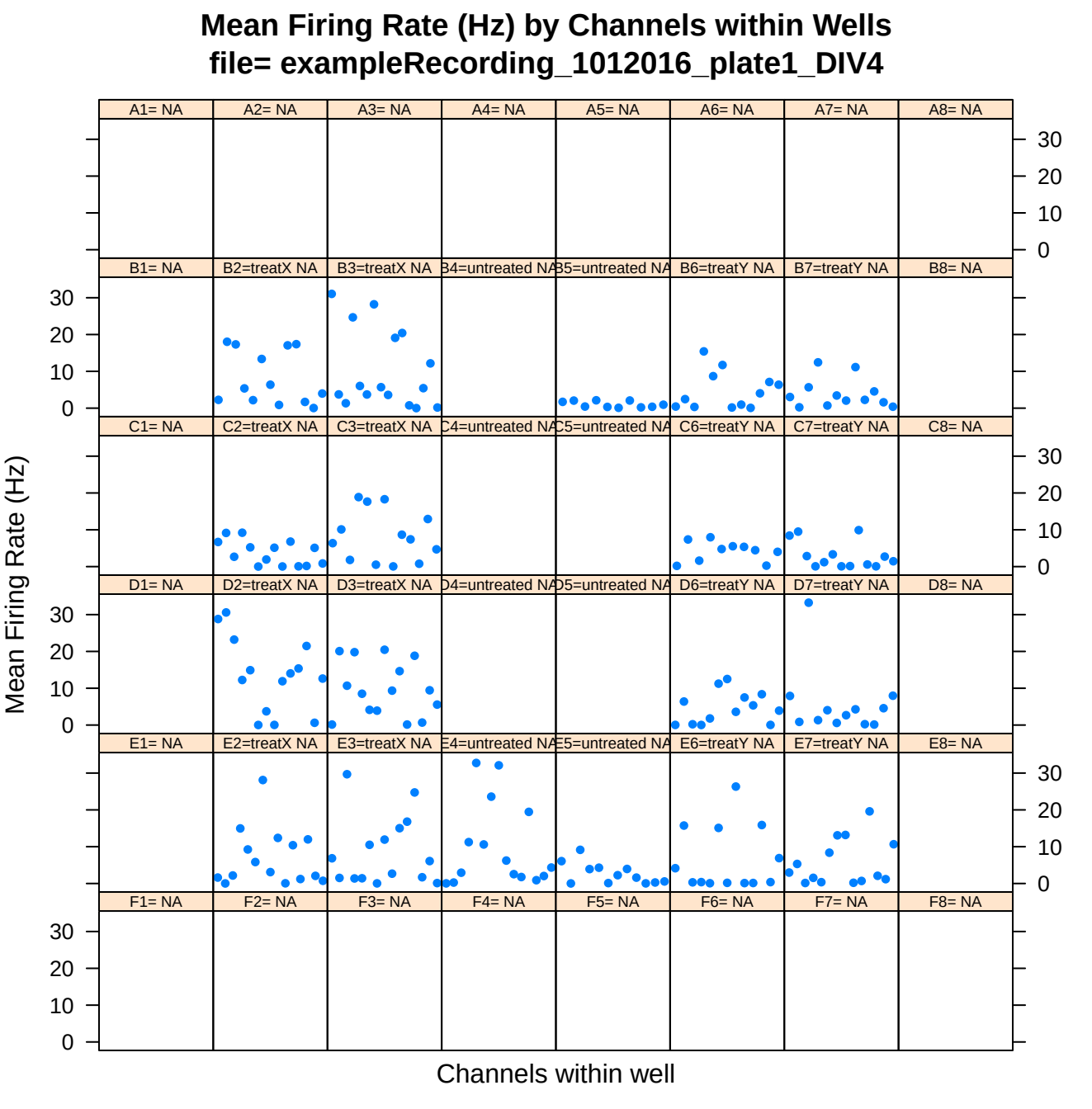
K−S test for treatX vs. untreated : 1e−15, for: nspikesInBurst
K−S test for treatX vs. treatY : 5.6e−14, for: nspikesInBurst
K−S test for untreated vs. treatY : 0.03, for: nspikesInBurst

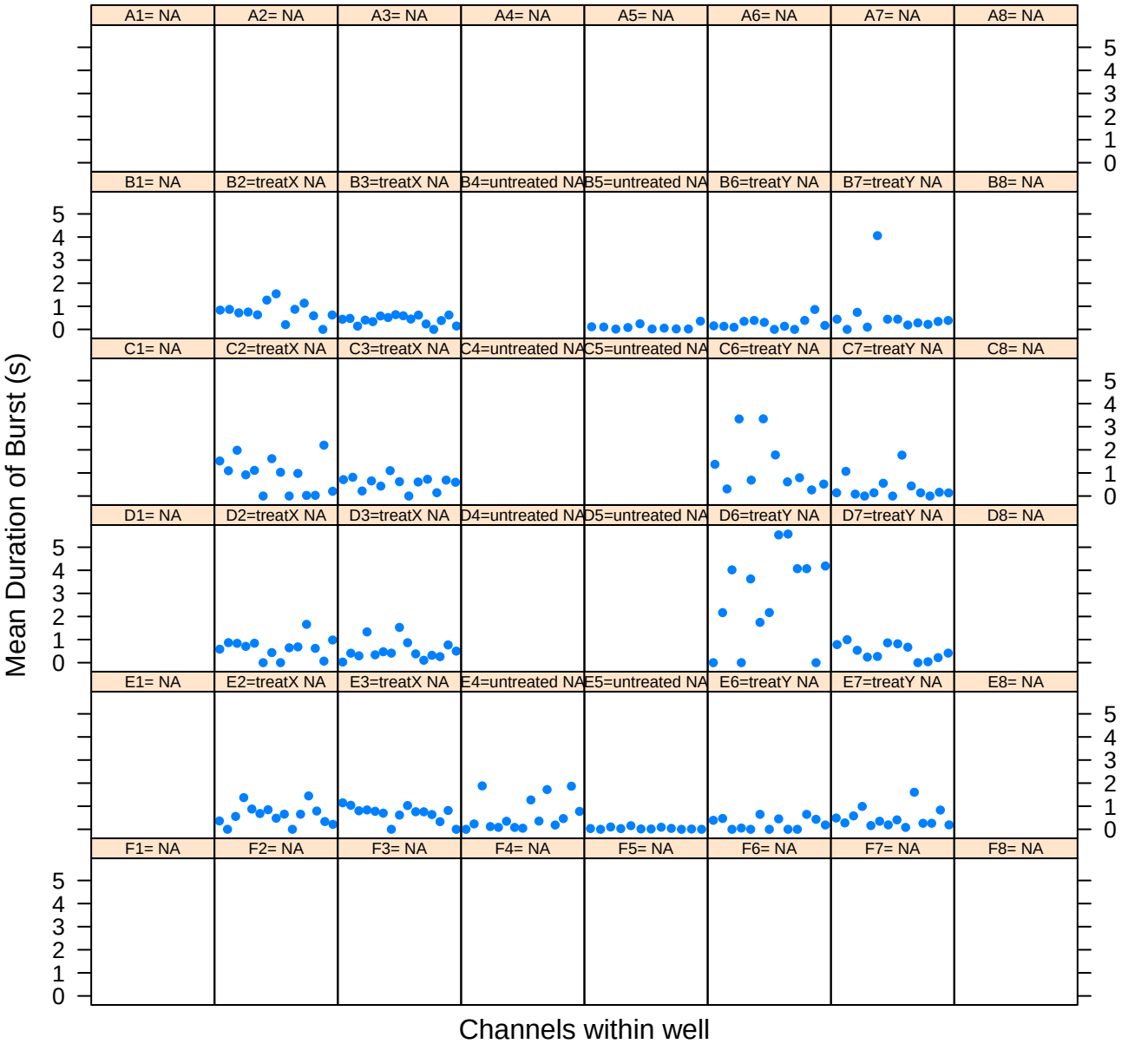


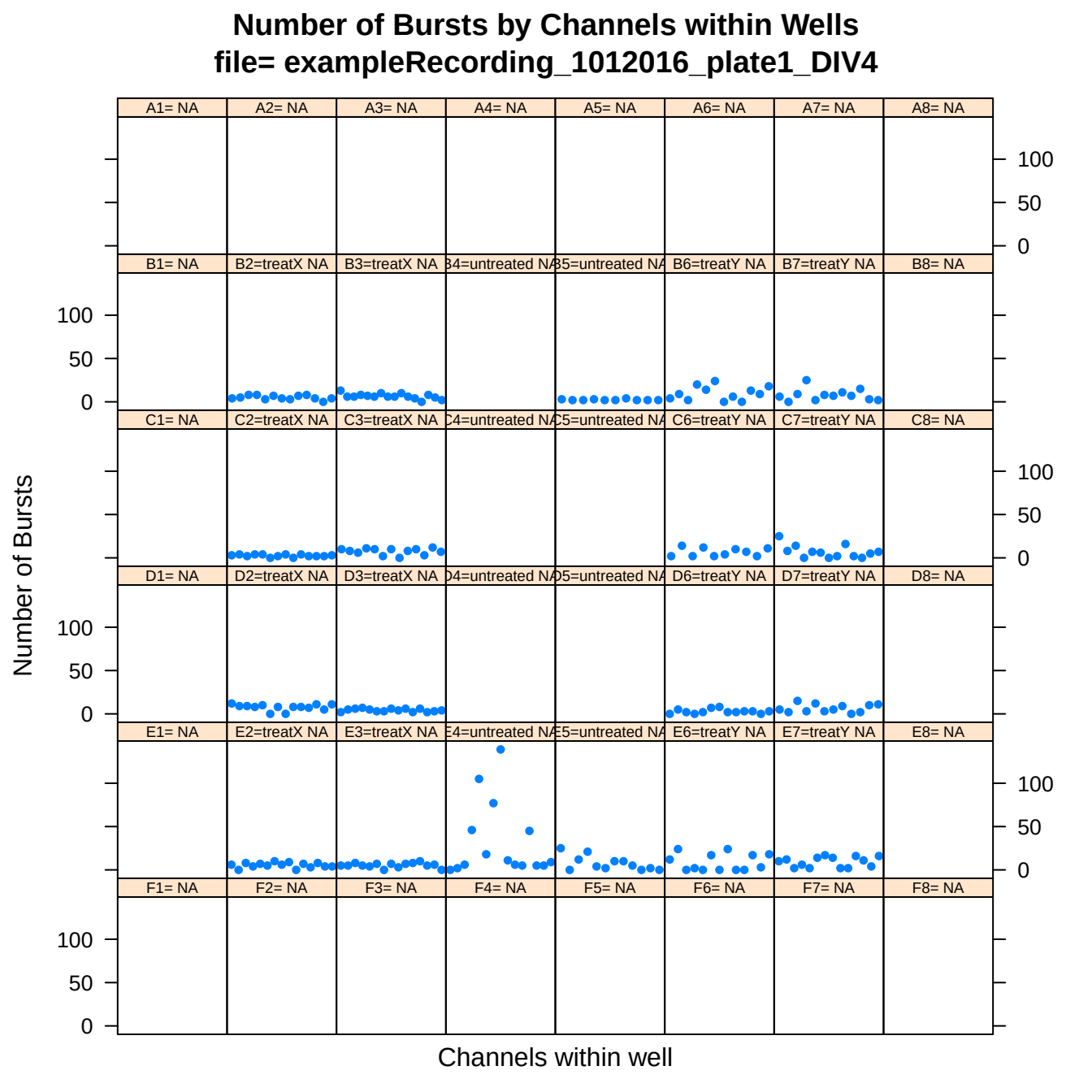
K−S test for untreated vs. treatY : 0.89, for: duration

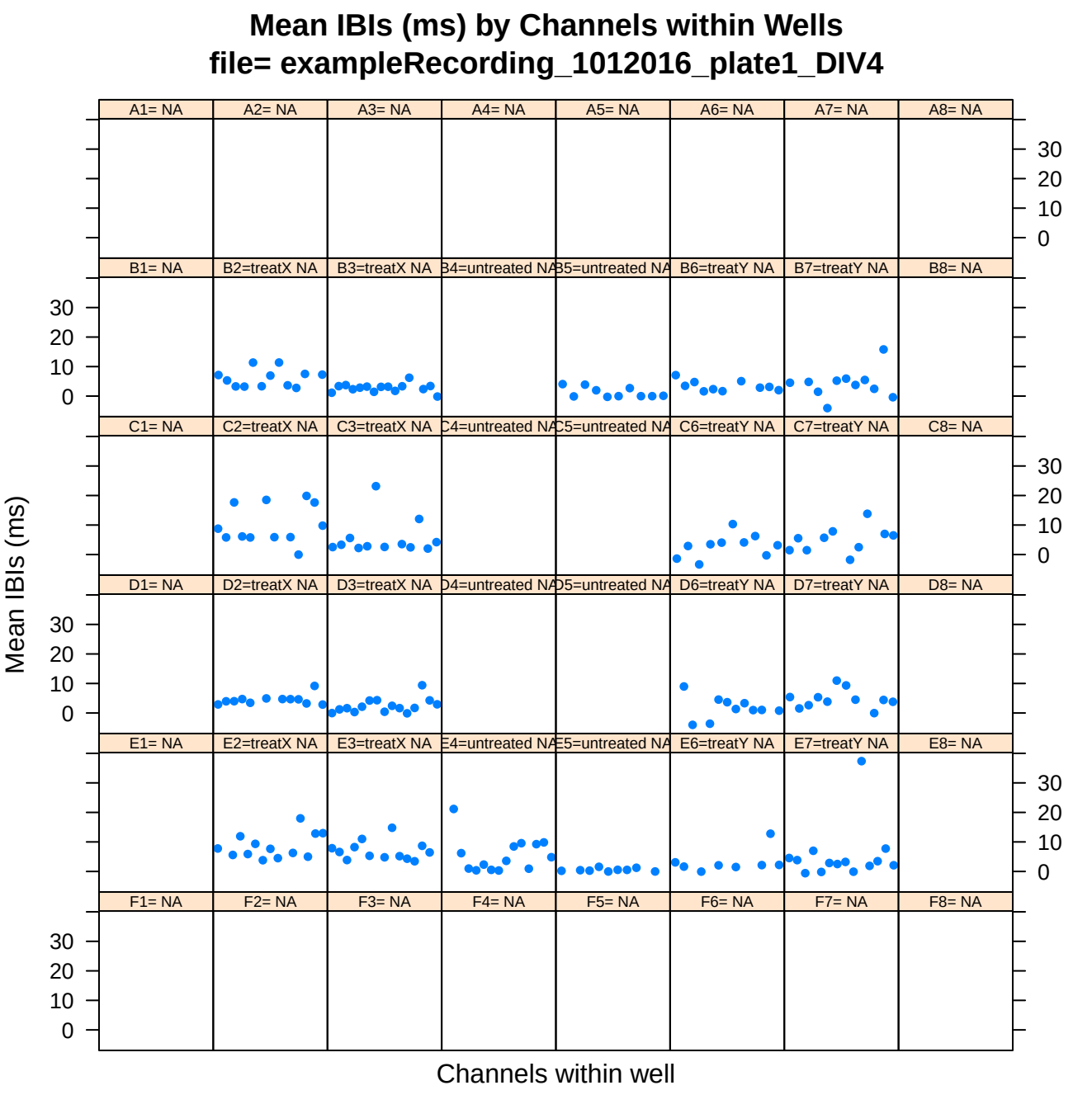

spikesDensityInBurst by treatment
untreated
treatY
0.000
0.005
0.010
0.015
0.020
0.025
0
50
100
150
200
250
300
K−S test for untreated vs. treatY : 1.2e−05, for: spikesDensityInBurst

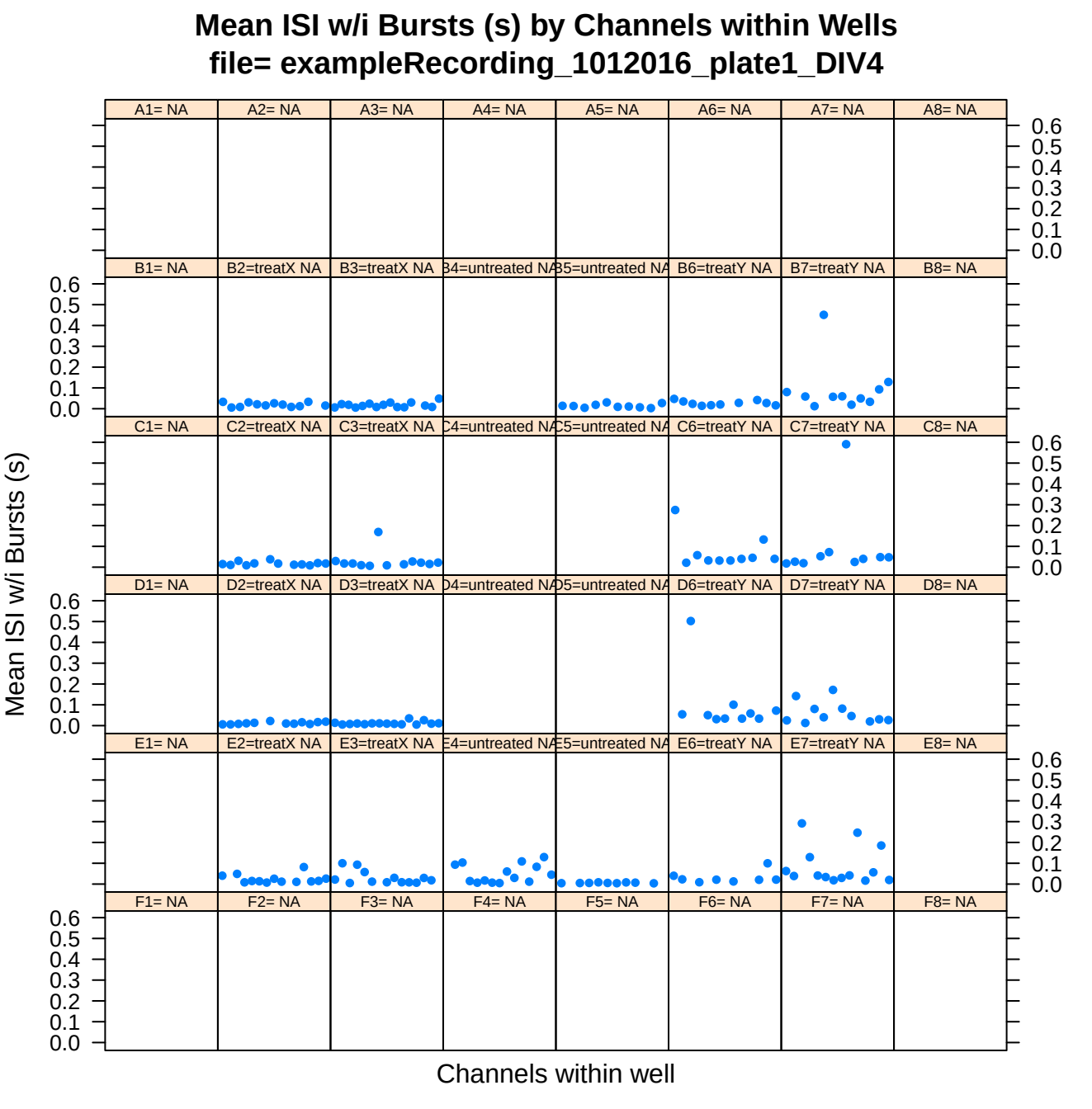

Mean Firing Rate by Plate (Hz)
0
2
4
6
8
10
12
0
10
20
30
40
50
time (s)

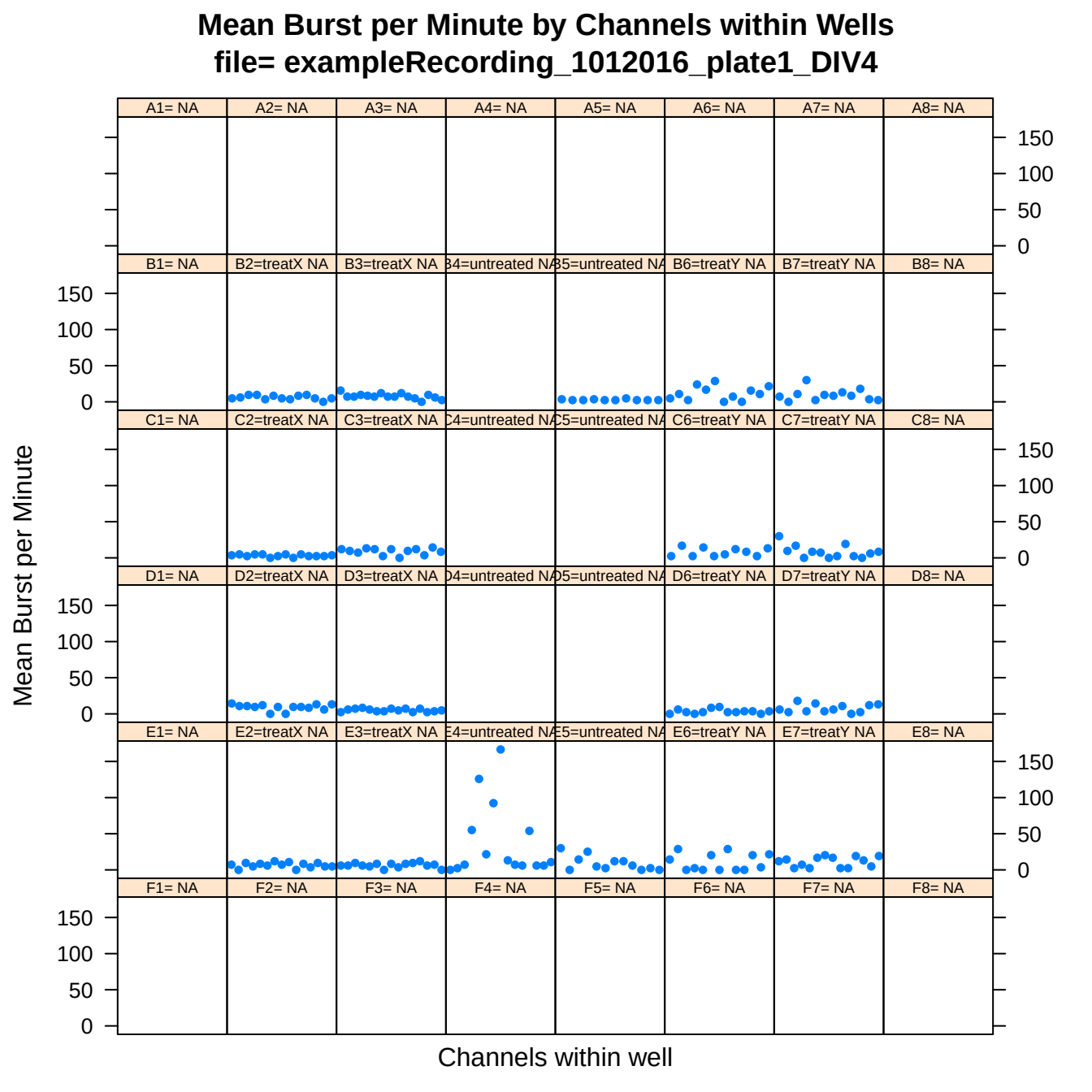

Mean Firing Rate (Hz) by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0
10
20
30
Mean Firing Rate (Hz)
Channels within well

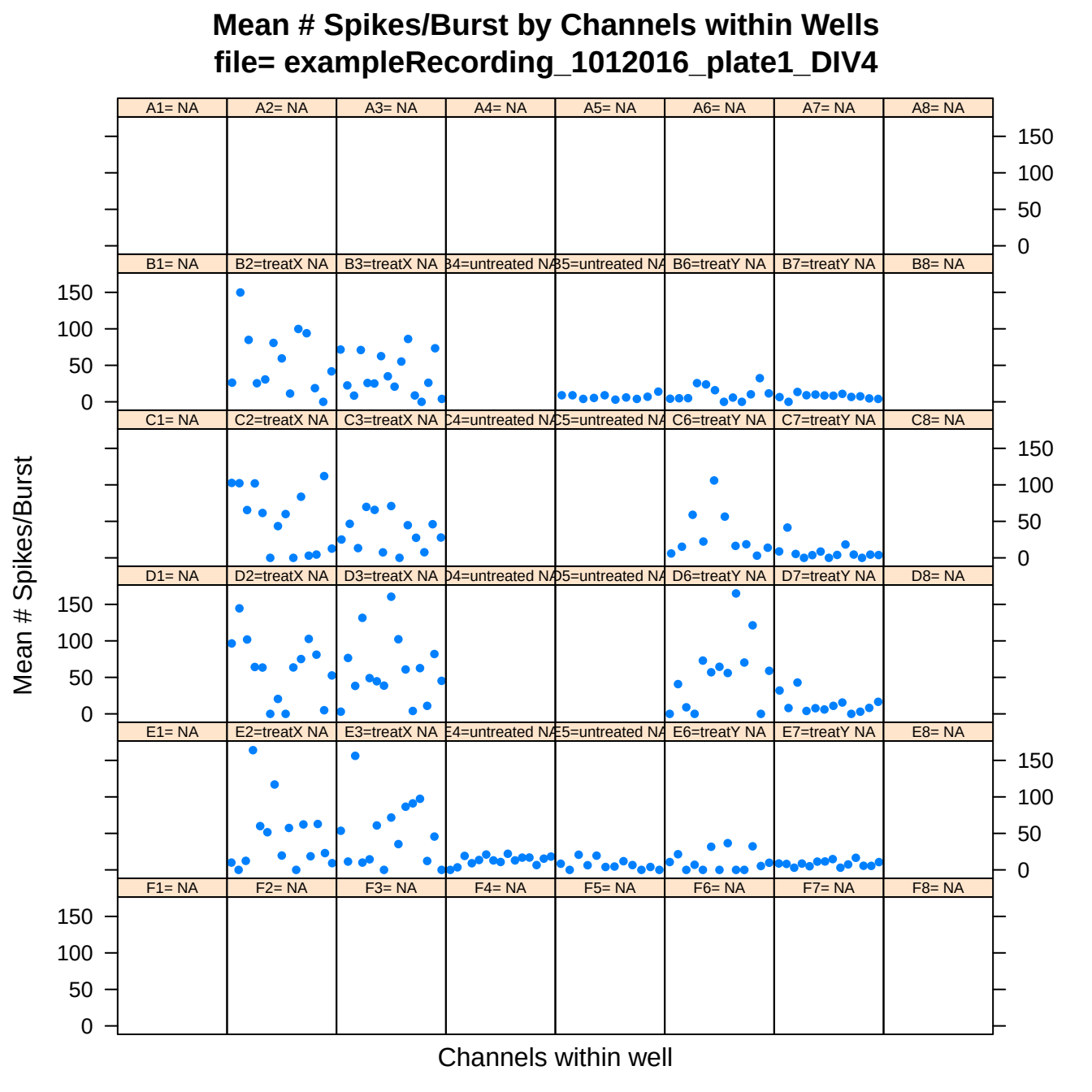

Mean Duration of Burst (s) by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
Mean Duration of Burst (s)
Channels within well

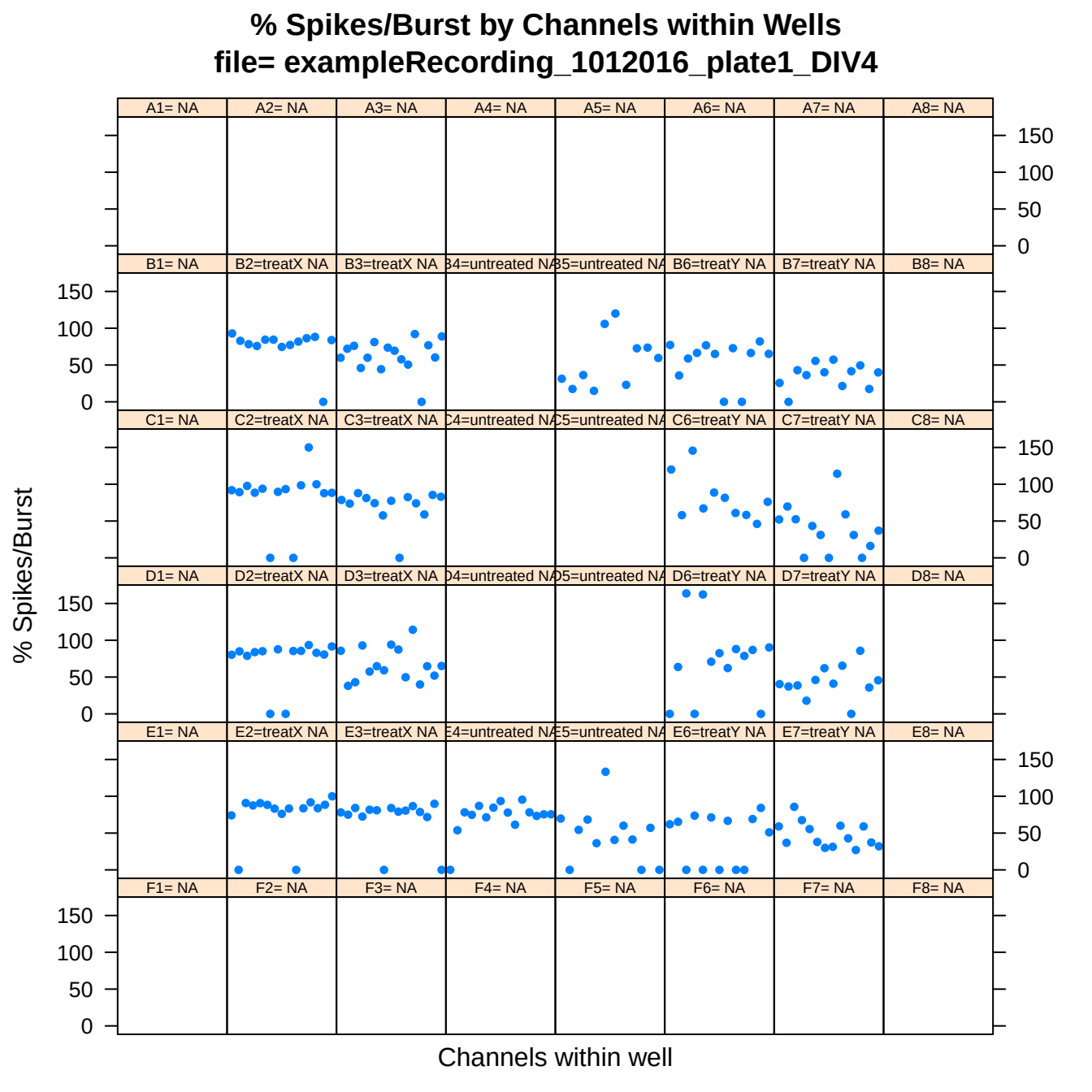

Number of Bursts by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0
50
100
Number of Bursts
Channels within well


Mean IBIs (ms) by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0
10
20
30
Mean IBIs (ms)
Channels within well


Mean ISI w/i Bursts (s) by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Mean ISI w/i Bursts (s)
Channels within well


Mean Burst per Minute by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
150
100
50
0
Mean Burst per Minute
Channels within well


Mean # Spikes/Burst by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0
50
100
150
Mean # Spikes/Burst
Channels within well


% Spikes/Burst by Channels within Wells
file= exampleRecording_1012016_plate1_DIV4
A1= NA
A2= NA
A3= NA
A4= NA
A5= NA
A6= NA
A7= NA
A8= NA
B1= NA
B2=treatX NA
B3=treatX NA
B4=untreated NA
B5=untreated NA
B6=treatY NA
B7=treatY NA
B8= NA
C1= NA
C2=treatX NA
C3=treatX NA
C4=untreated NA
C5=untreated NA
C6=treatY NA
C7=treatY NA
C8= NA
D1= NA
D2=treatX NA
D3=treatX NA
D4=untreated NA
D5=untreated NA
D6=treatY NA
D7=treatY NA
D8= NA
E1= NA
E2=treatX NA
E3=treatX NA
E4=untreated NA
E5=untreated NA
E6=treatY NA
E7=treatY NA
E8= NA
F1= NA
F2= NA
F3= NA
F4= NA
F5= NA
F6= NA
F7= NA
F8= NA
0
50
100
150
% Spikes/Burst
Channels within well