Table 5: Summary of differences between "true" and proposed corrected log ratios, including 2s restriction and no restriction: Red channel saturation

	< 1 SD†	1-2 SDs	> 2 SDs
$< 25\%$ saturation (n=79)			
Proposed method	75	2	2
2s restriction	76	1	2
No restriction	76	1	2
No correction	73	4	2
$25 - 50\%$ saturation (n=45)			
Proposed method	43	2	0
2s restriction	44	1	0
No restriction	44	1	0
No correction	29	14	2
$50 - 75\%$ saturation (n=26)			
Proposed method	23	2	1
2s restriction	23	2	1
No restriction	24	2	0
No correction	7	12	7
$75 - 85\%$ saturation (n=22)			
Proposed method	17	4	1

2s restriction	17	5	0
No restriction	15	7	0
No correction	1	5	16
$85-95\%$ saturation (n=26)			
Proposed method	11	5	10
2s restriction	12	9	5
No restriction	16	4	6
No correction	1	3	22
$>95\%$ saturation (n=11)			
Proposed method	2	3	6
2s restriction	5	2	4
No restriction	6	3	2
No correction	0	0	11

† Cell values provide total number of spots within standard deviations (SDs) of "true" value across arrays A, B & C

Table 6: Summary of differences between "true" and proposed corrected log ratios, including 2s restriction and no restriction: Green channel saturation

	< 1 SD†	1-2 SDs	> 2 SDs
$< 25\%$ saturation (n=110)			
Proposed method	105	1	4
2s restriction	105	1	4
No restriction	106	2	2
No correction	105	0	5
$25 - 50\%$ saturation (n=30)			
Proposed method	30	0	0
2s restriction	30	0	0
No restriction	30	0	0
No correction	23	5	2
$50 - 75\%$ saturation (n=36)			
Proposed method	32	4	0
2s restriction	35	1	0
No restriction	34	2	0
No correction	12	11	13
$75 - 85\%$ saturation (n=18)			
Proposed method	9	4	5

2s restriction	11	3	4
No restriction	12	1	2
No correction	1	2	15
$85-95\%$ saturation (n=35)			
Proposed method	13	6	16
2s restriction	10	13	12
No restriction	17	8	9
No correction	0	3	32
$>95\%$ saturation (n=9)			
Proposed method	1	2	6
2s restriction	1	4	4
No restriction	1	2	6
No correction	0	0	9

† Cell values provide total number of spots within standard deviations (SDs) of "true" value across arrays A, B & C

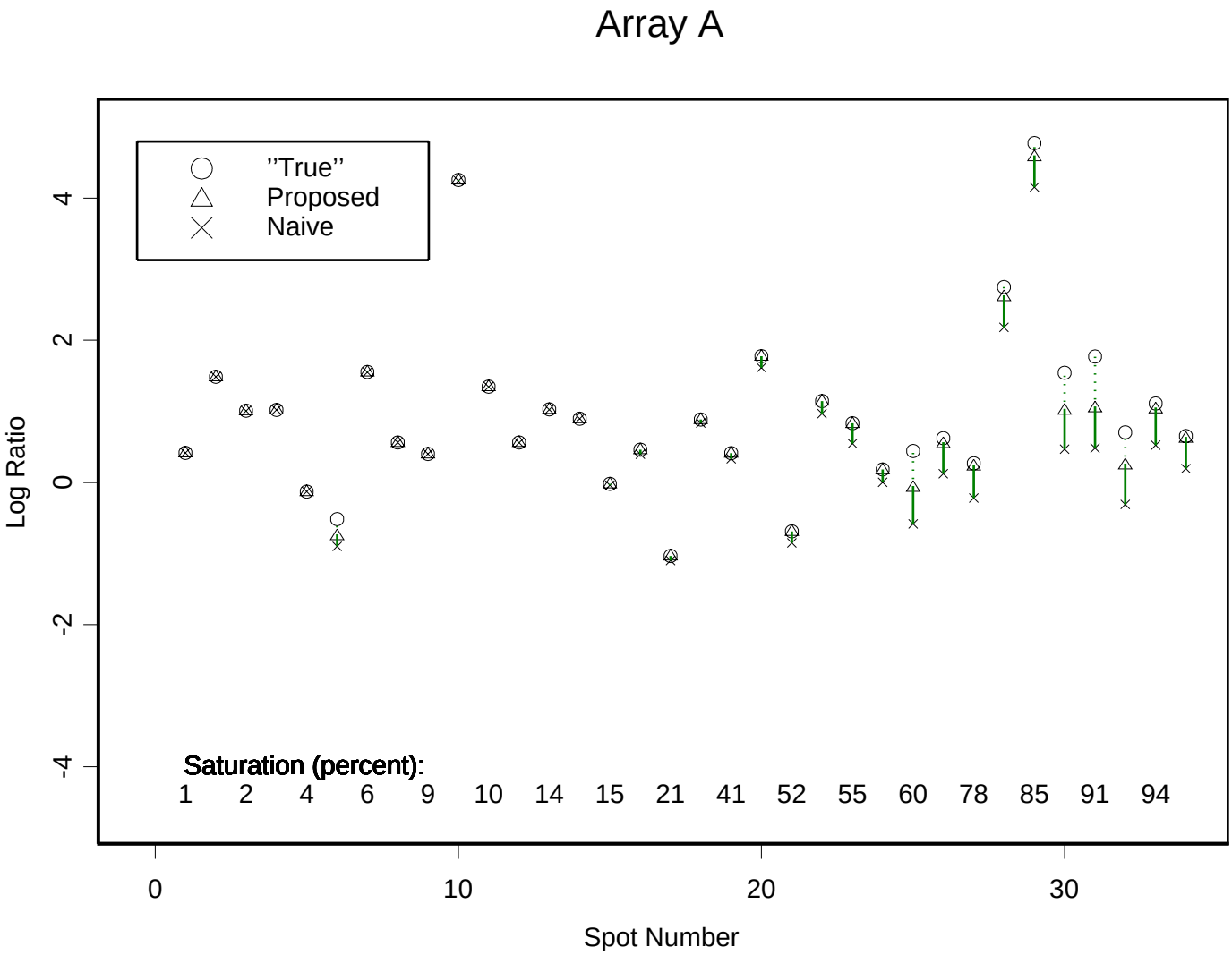

Figure 5: Plot of log ratios ("true," saturation corrected, and naive) for spots with saturation in red channel.

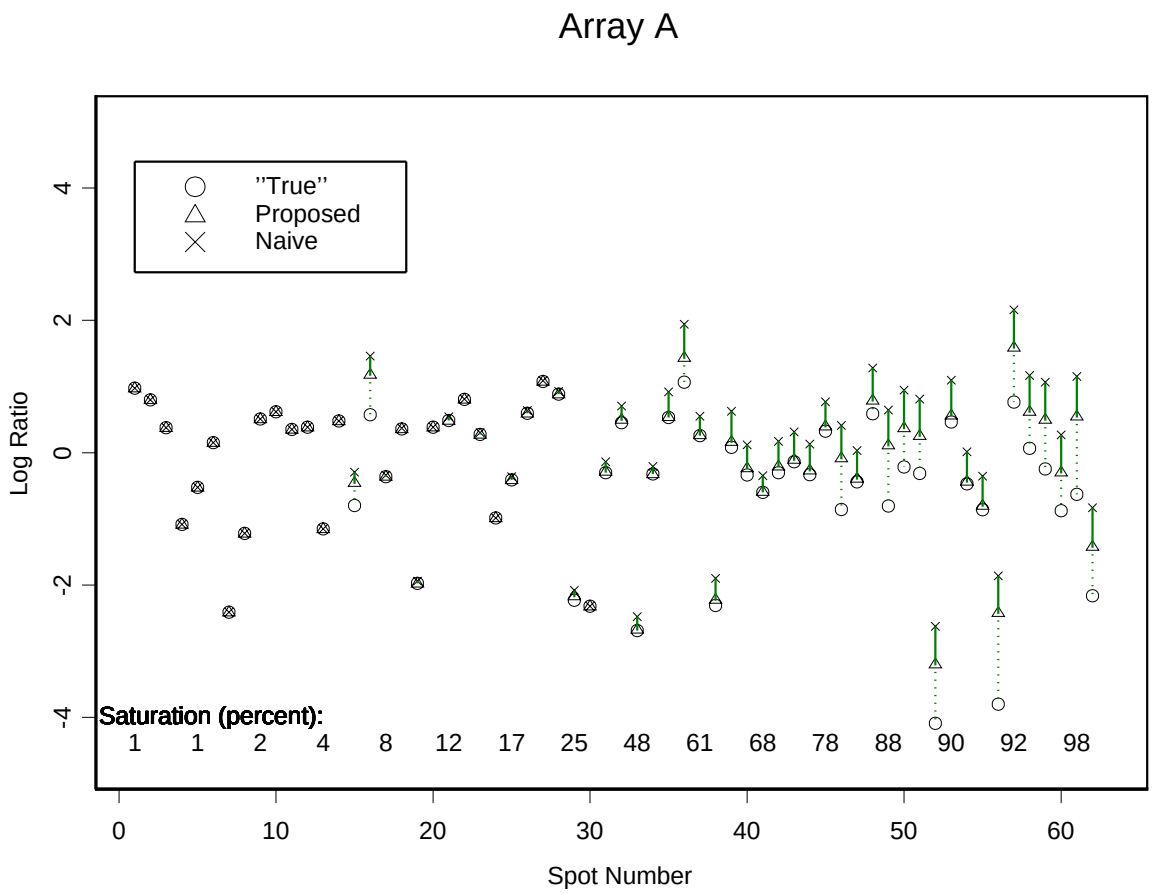

Figure 6: Plot of log ratios ("true," saturation corrected, and naive) for spots with saturation in green channel.

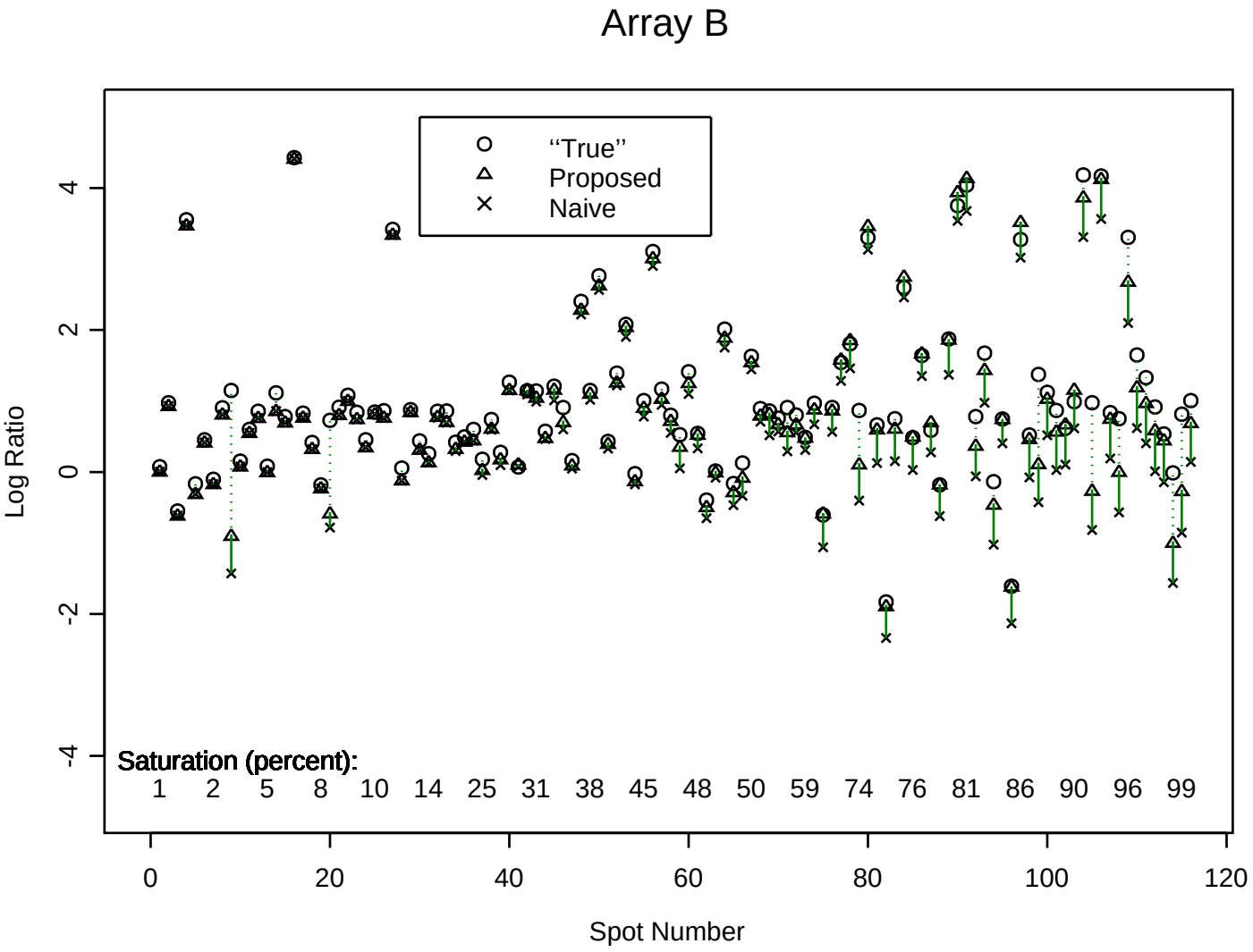

Figure 7: Plot of log ratios ("true," saturation corrected, and naive) for spots with saturation in red channel.

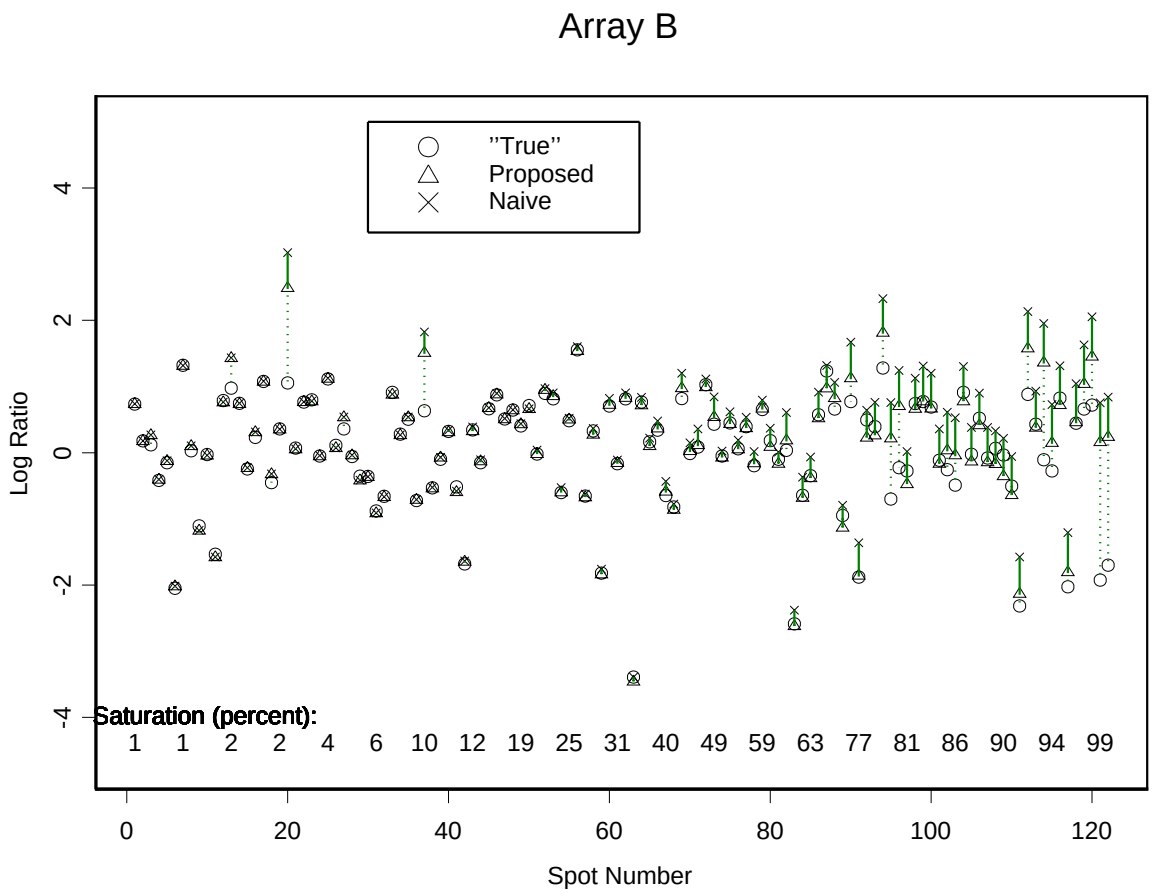

Figure 8: Plot of log ratios ("true," saturation corrected, and naive) for spots with saturation in green channel.