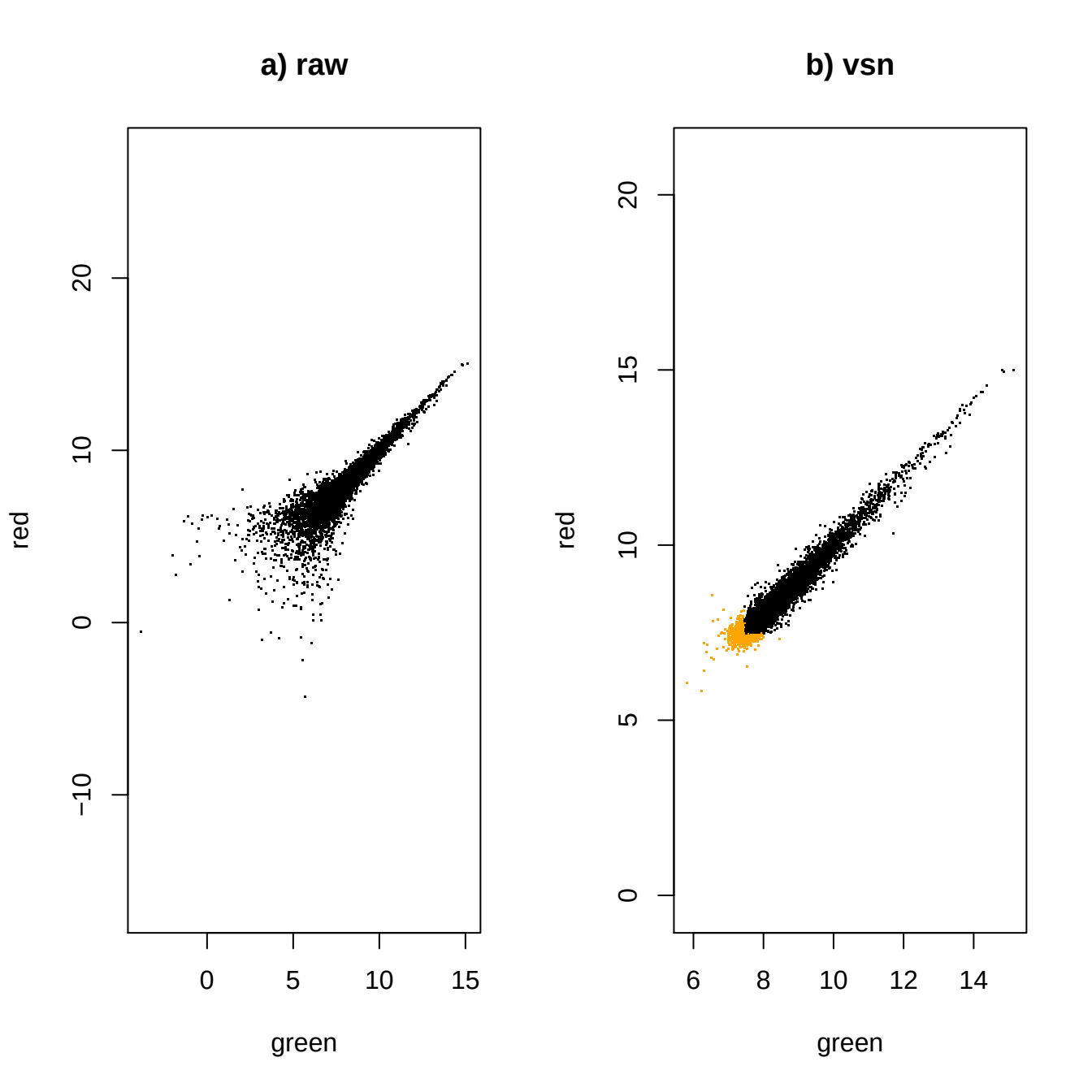
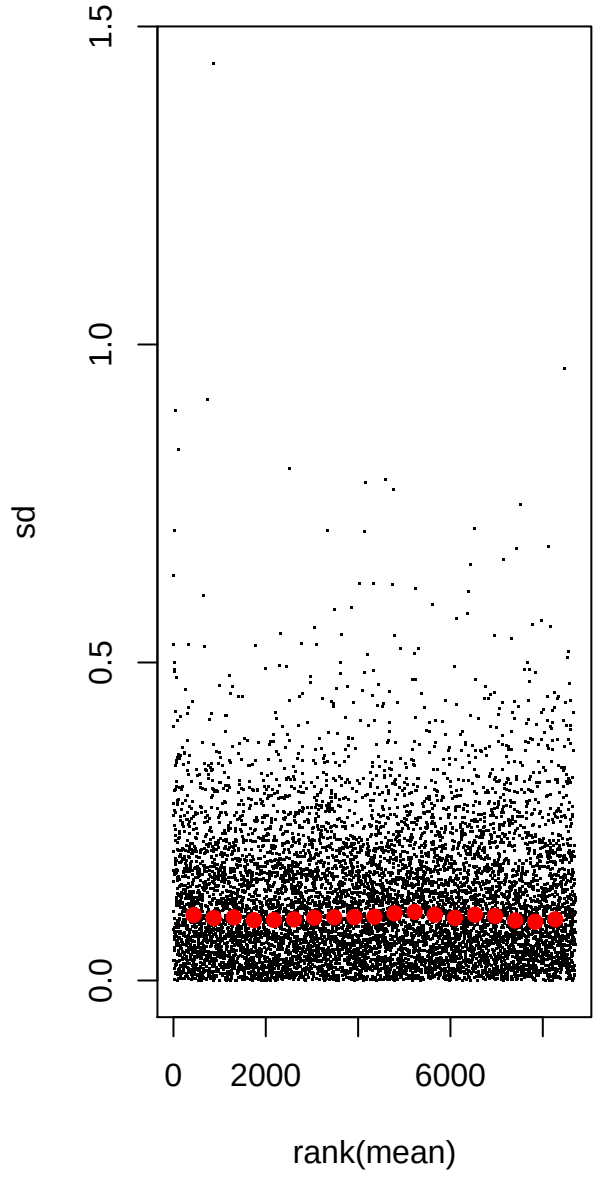
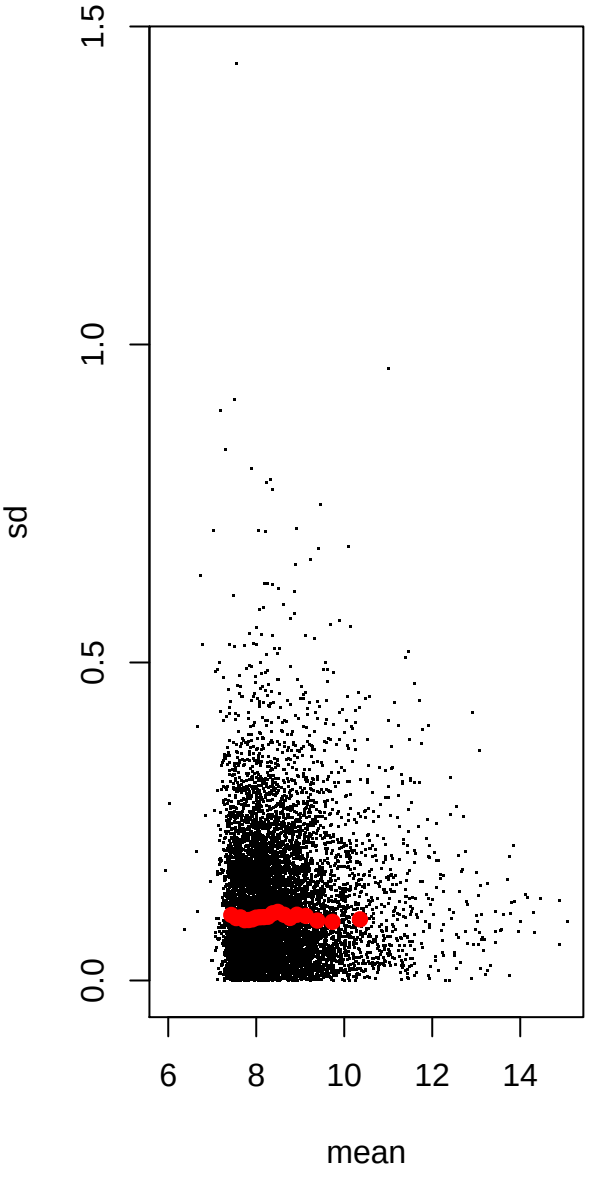
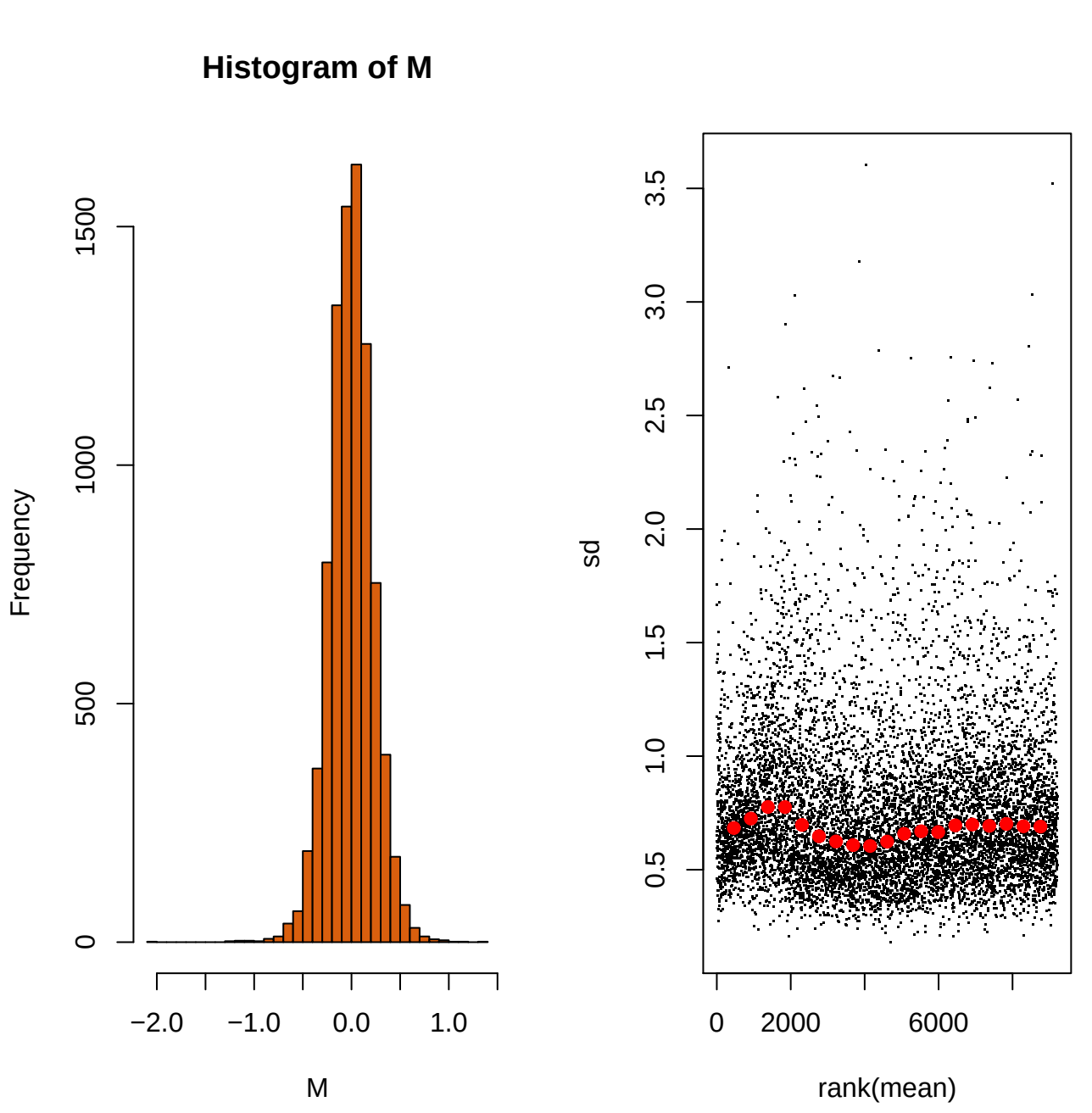
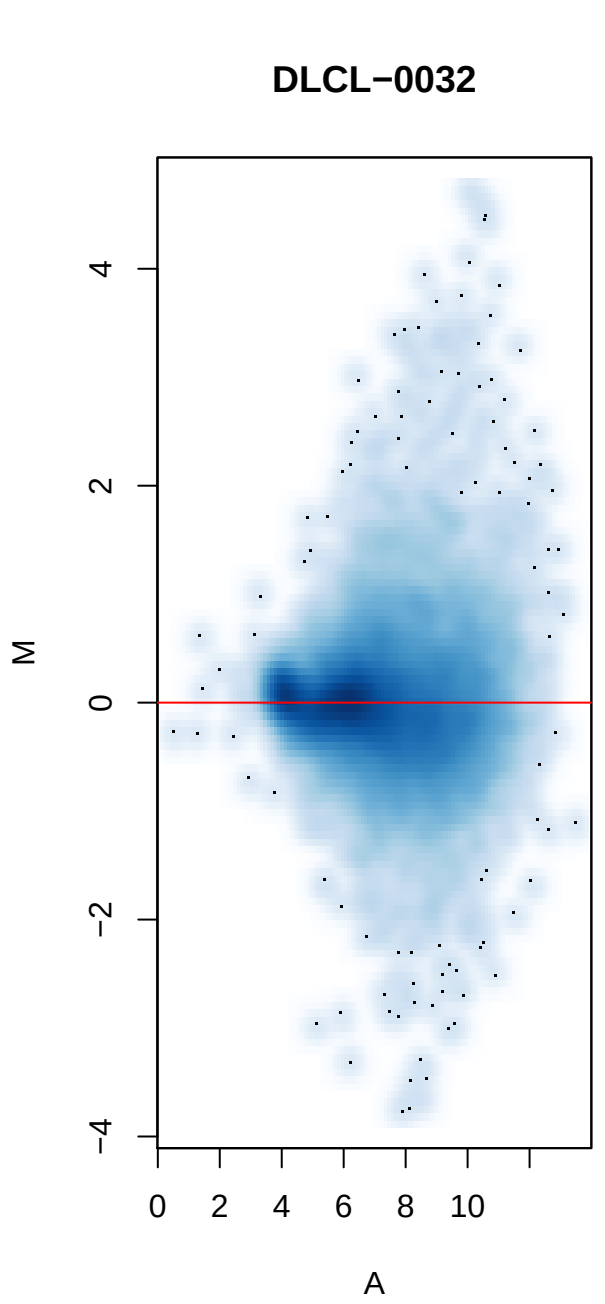
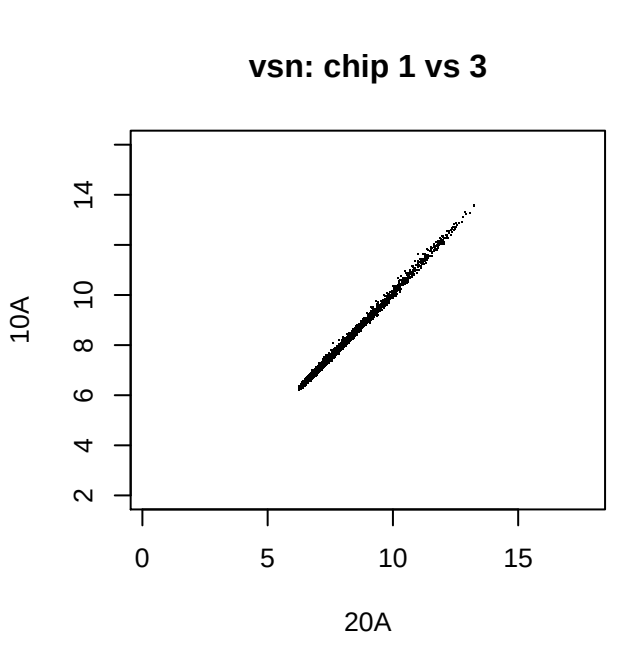

a) raw
b) vsn
red
green
20
10
0
−10
15
5
6
8
12
14

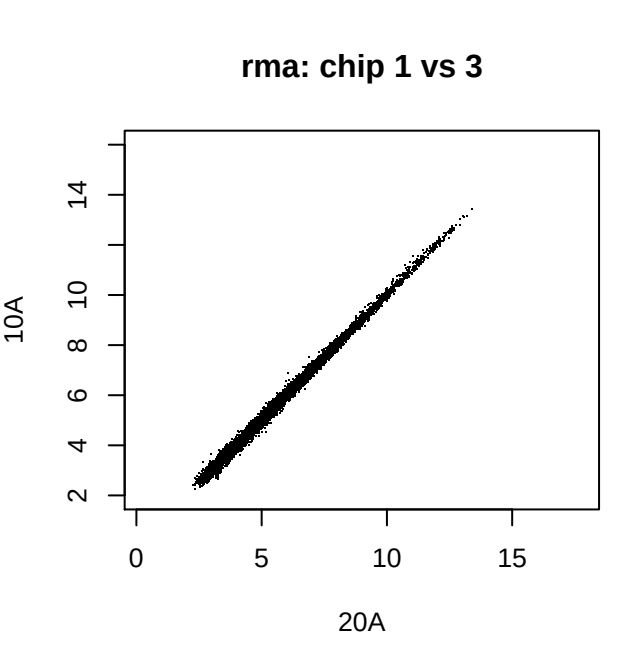

sd
1.5
1.0
0.5
0.0
0
2000
6000
rank(mean)

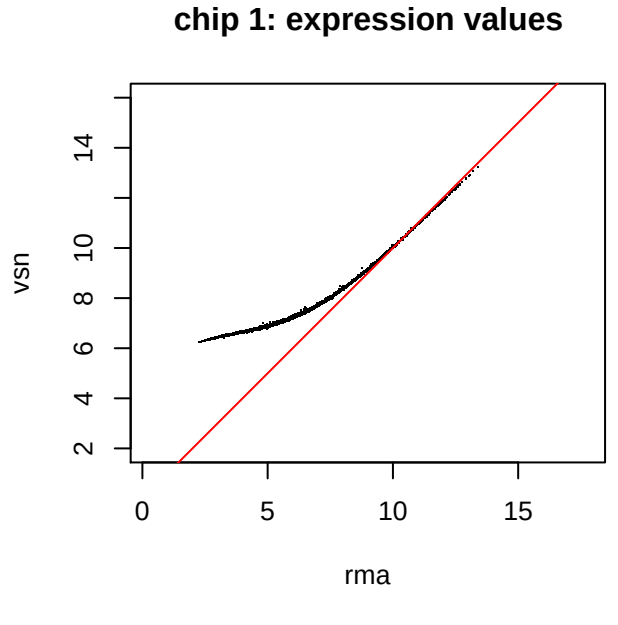

sd
1.5
1.0
0.5
0.0
6
8
10
12
14
mean

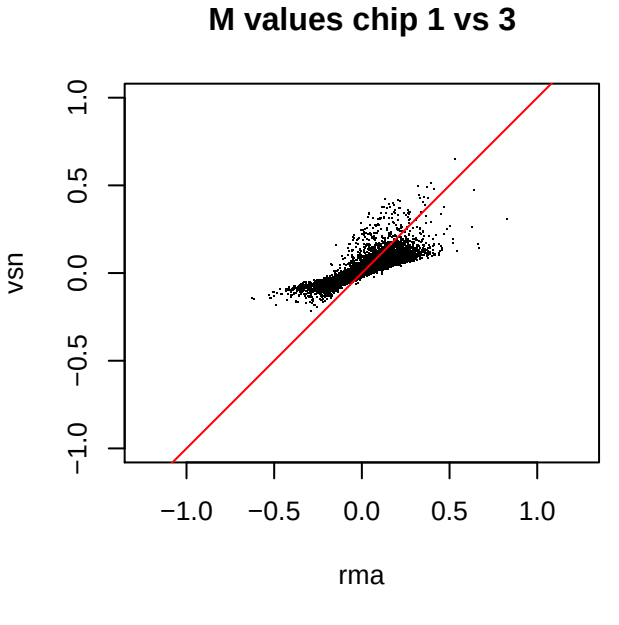

Histogram of M
Frequency
0
500
1000
1500
−2.0
−1.0
0.0
1.0
M
sd
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
2000
6000
rank(mean)

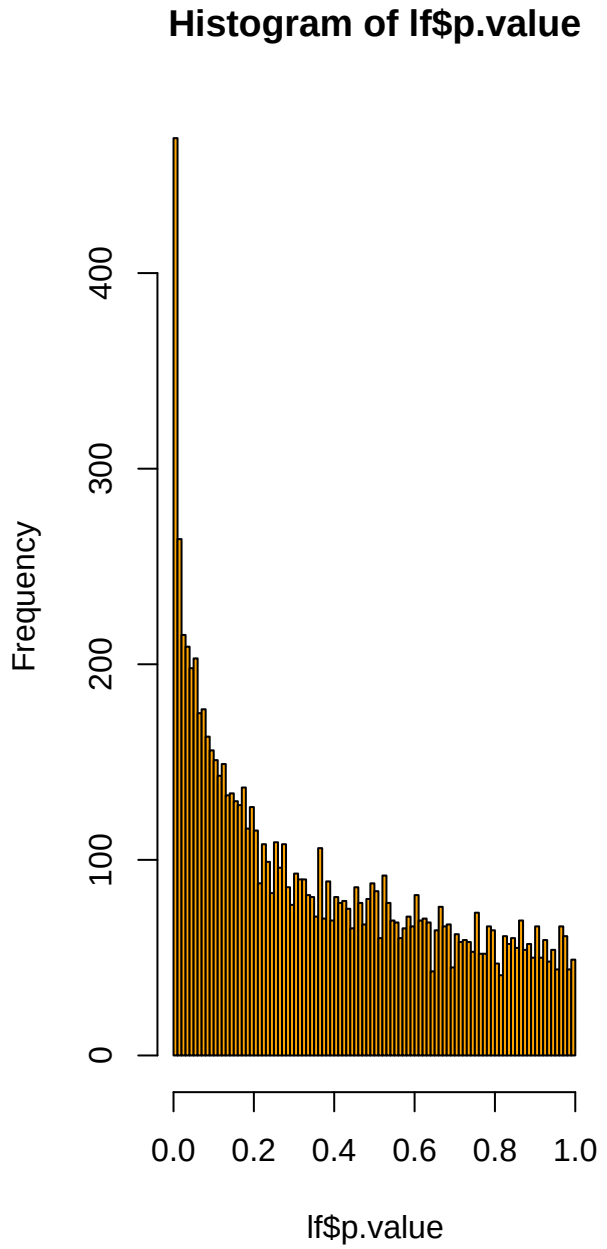

DLCL−0032
M
A
4
2
0
−2
−4
0
2
4
6
8
10

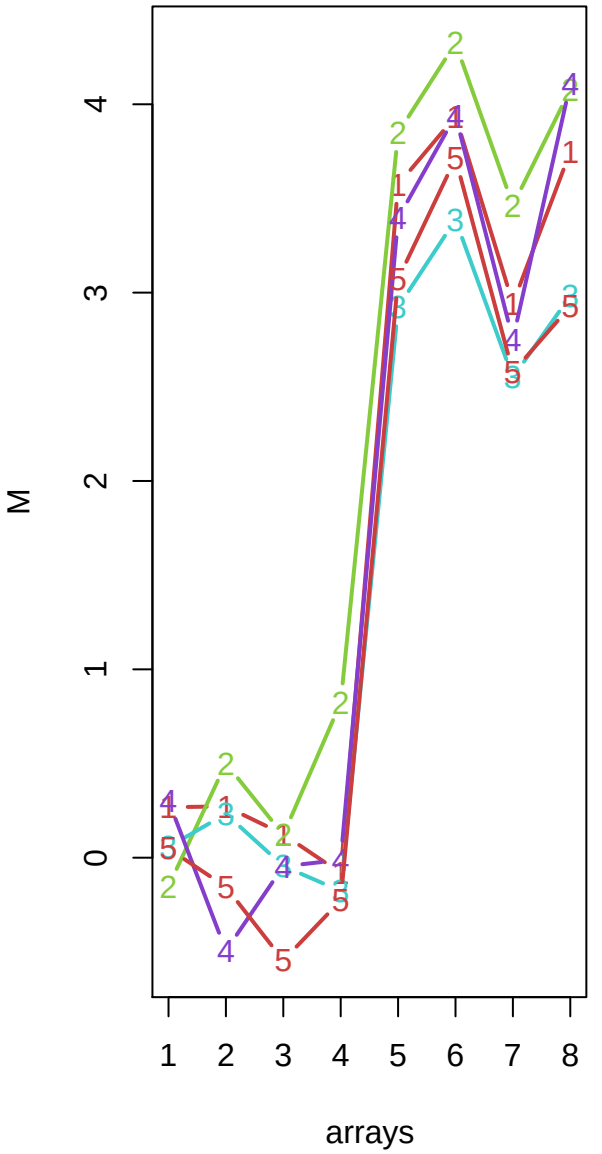

vsn: chip 1 vs 3
10A
20A
2
4
6
8
10
14
0
5
10
15

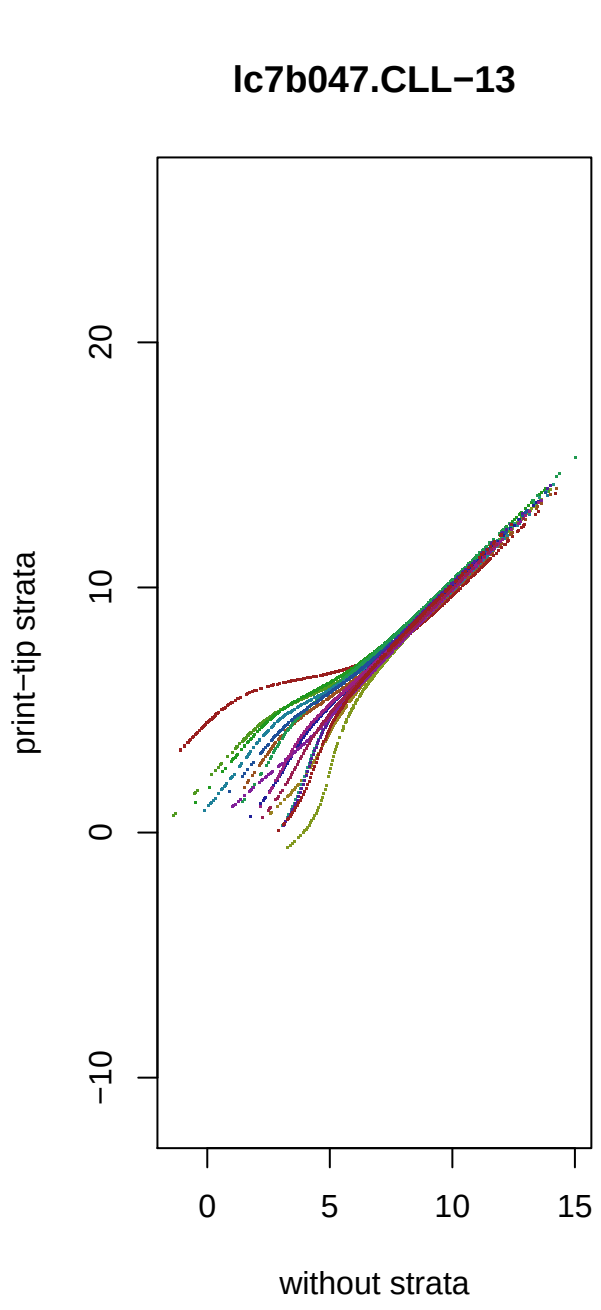

rma: chip 1 vs 3
10A
20A
2
4
6
8
10
14
0
5
10
15

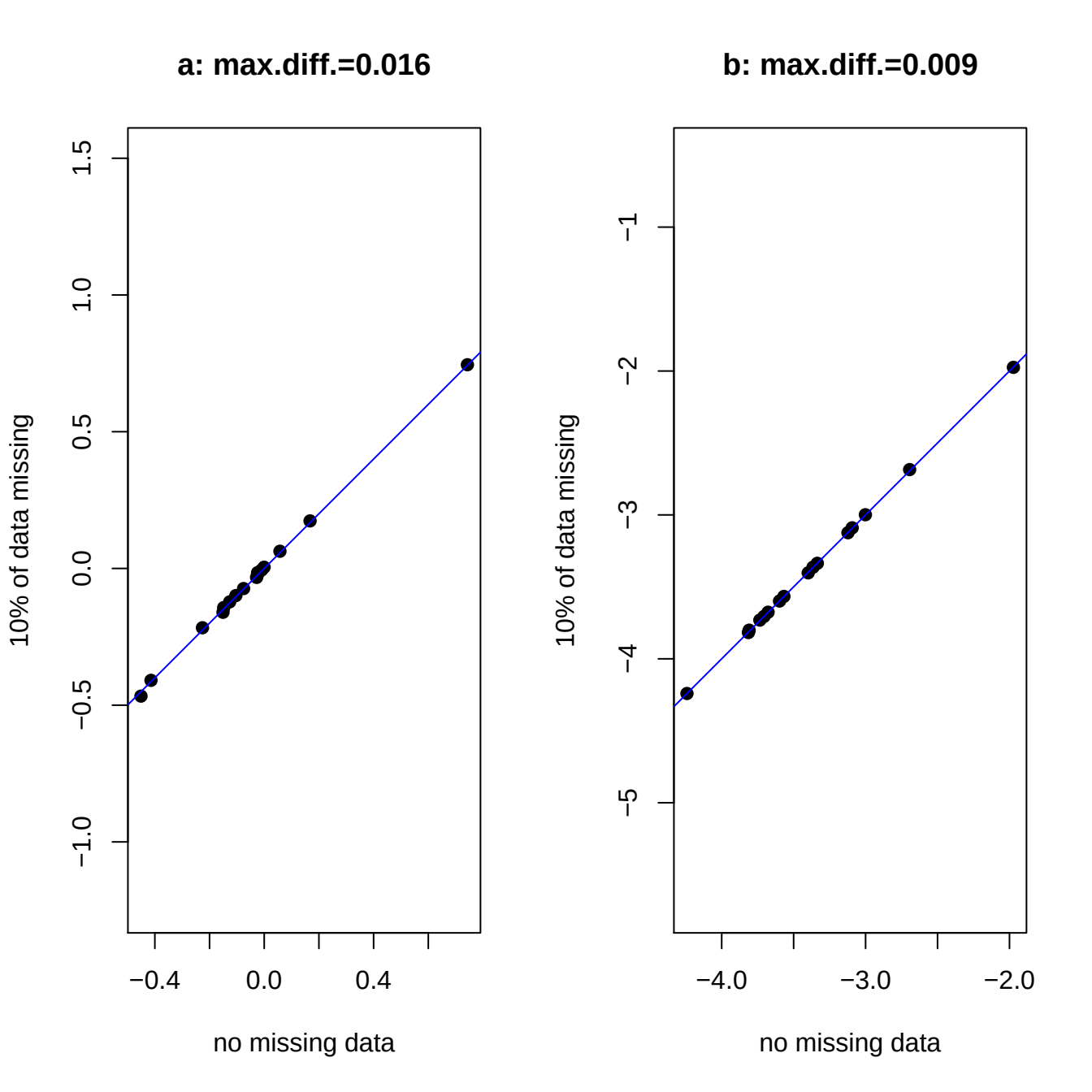

chip 1: expression values
vsn
rma
2
4
6
8
10
14
0
5
10
15

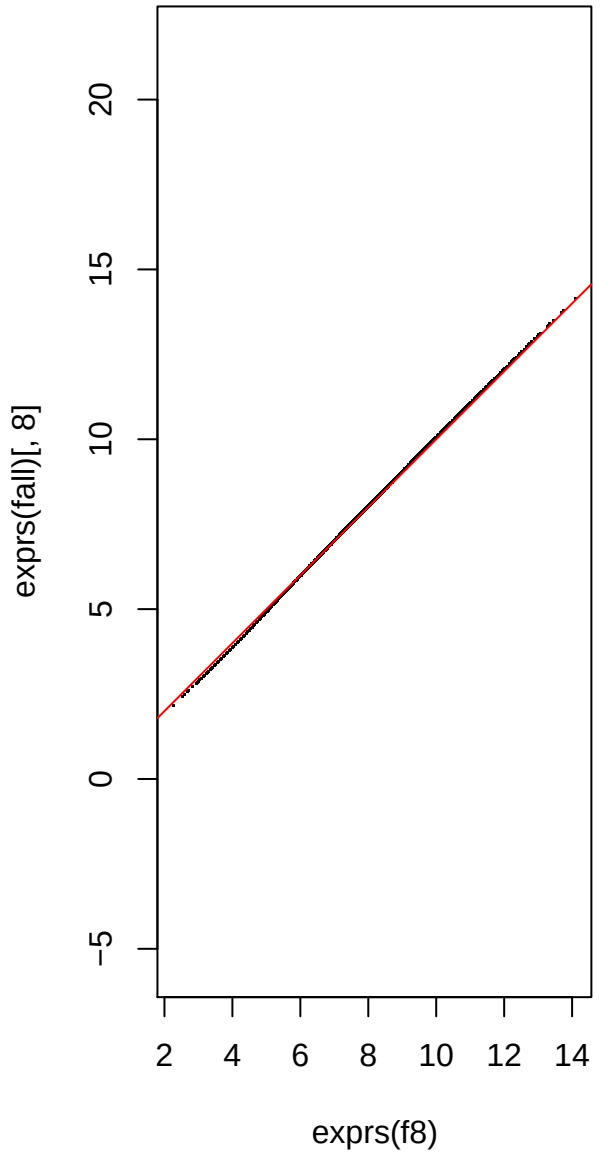

M values chip 1 vs 3
vsn
rma
−1.0
−0.5
0.0
0.5
1.0

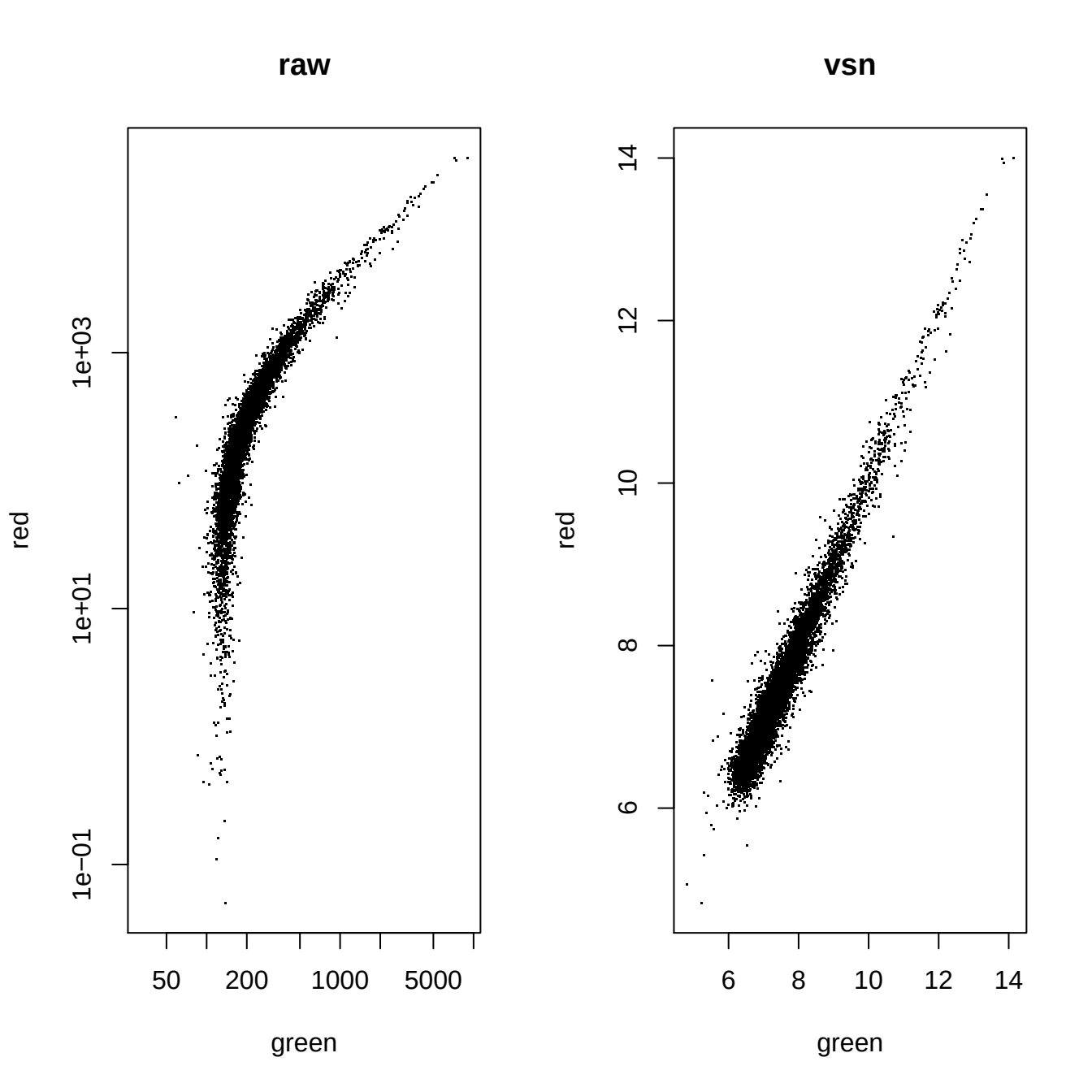

Histogram of lf$p.value
Frequency
0
100
200
300
400
0.0
0.2
0.4
0.6
0.8
1.0
lf$p.value

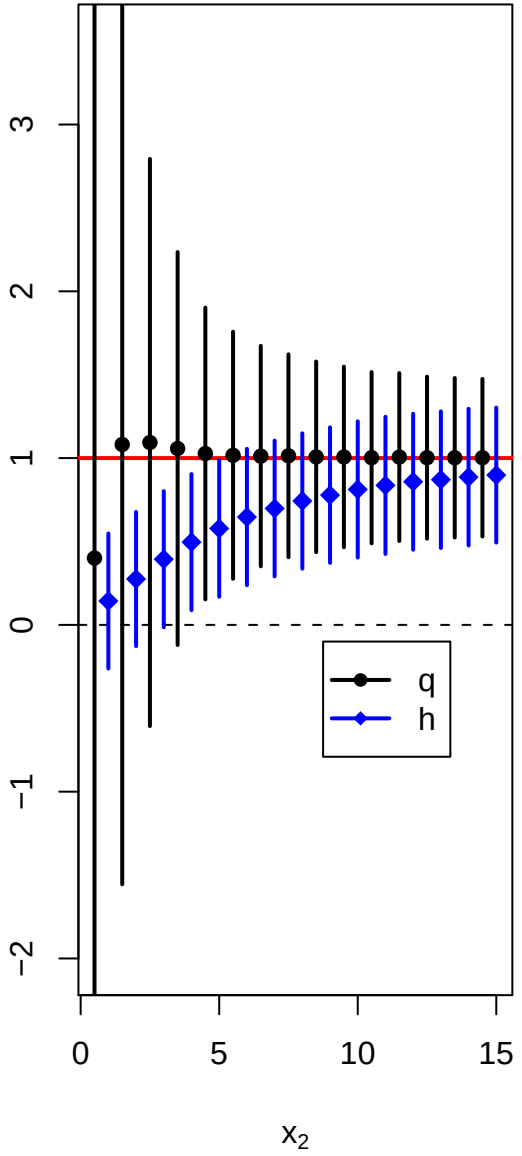

M
0
1
2
3
4
1
2
3
4
5
6
7
8
arrays

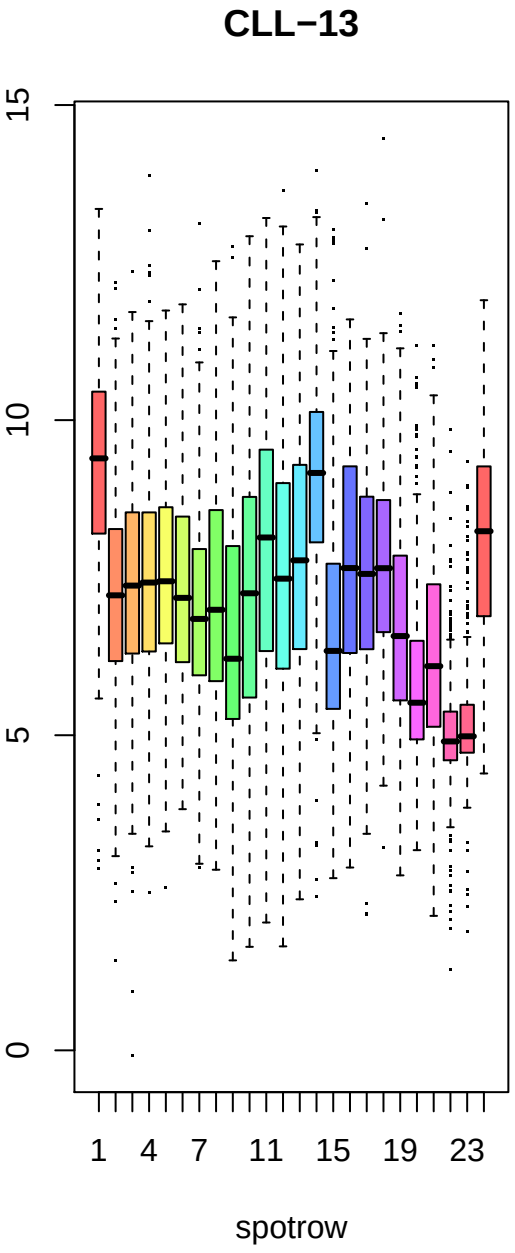

lc7b047.CLL−13
print−tip strata
without strata
20
10
0
−10
0
5
10
15

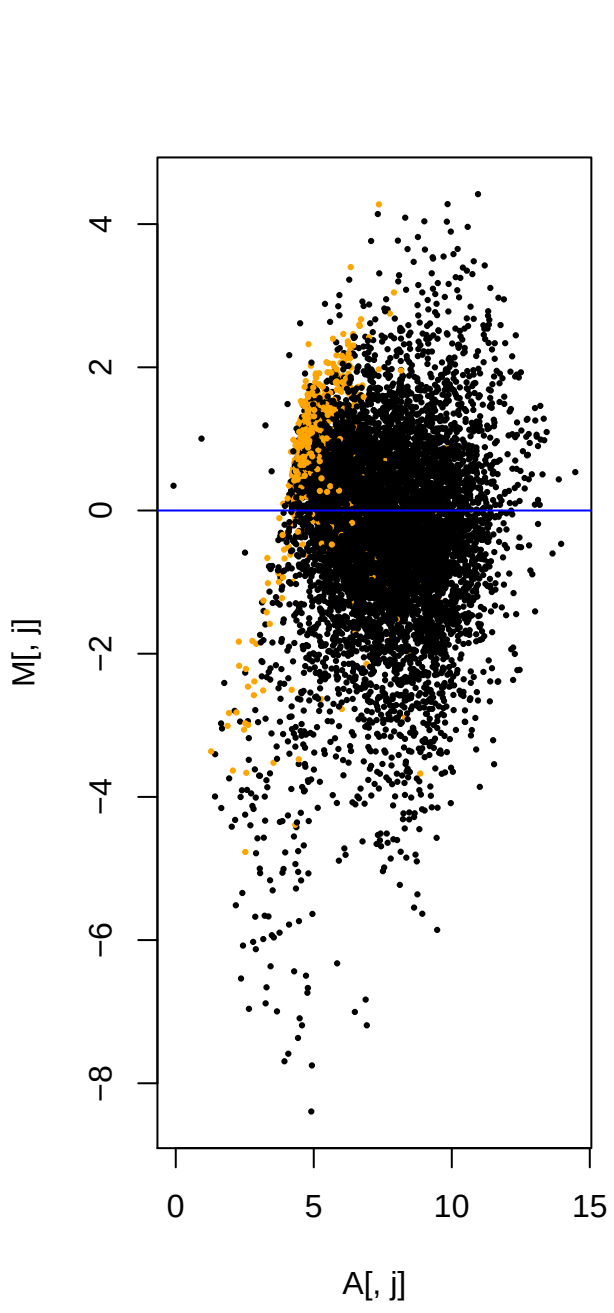

a: max.diff.=0.016
10% of data missing
no missing data
1.5
1.0
0.5
0.0
−0.5
−1.0
−0.4
0.0
0.4
b: max.diff.=0.009
10% of data missing
no missing data
−1
−2
−3
−4
−5
−4.0
−3.0
−2.0


exprs(fall)[, 8]
20
15
10
5
0
−5
2
4
6
8
10
12
14
exprs(f8)


raw
vsn
red
green
1e−01
1e+01
1e+03
50
200
1000
5000
6
8
10
12
14


3
2
1
0
−1
−2
0
5
10
15
q
h
x_2


CLL−13
15
10
5
0
A
1
4
7
11
15
19
23
spotrow


M[, j]
4
2
0
−2
−4
−6
−8
0
5
10
15
A[, j]