UNIVERSITY OF ILLINOIS AT CHICAGO

IDS 462

SPRING 2018

MIDTERM PROJECT

DESCRIPTIVE ANALYSIS

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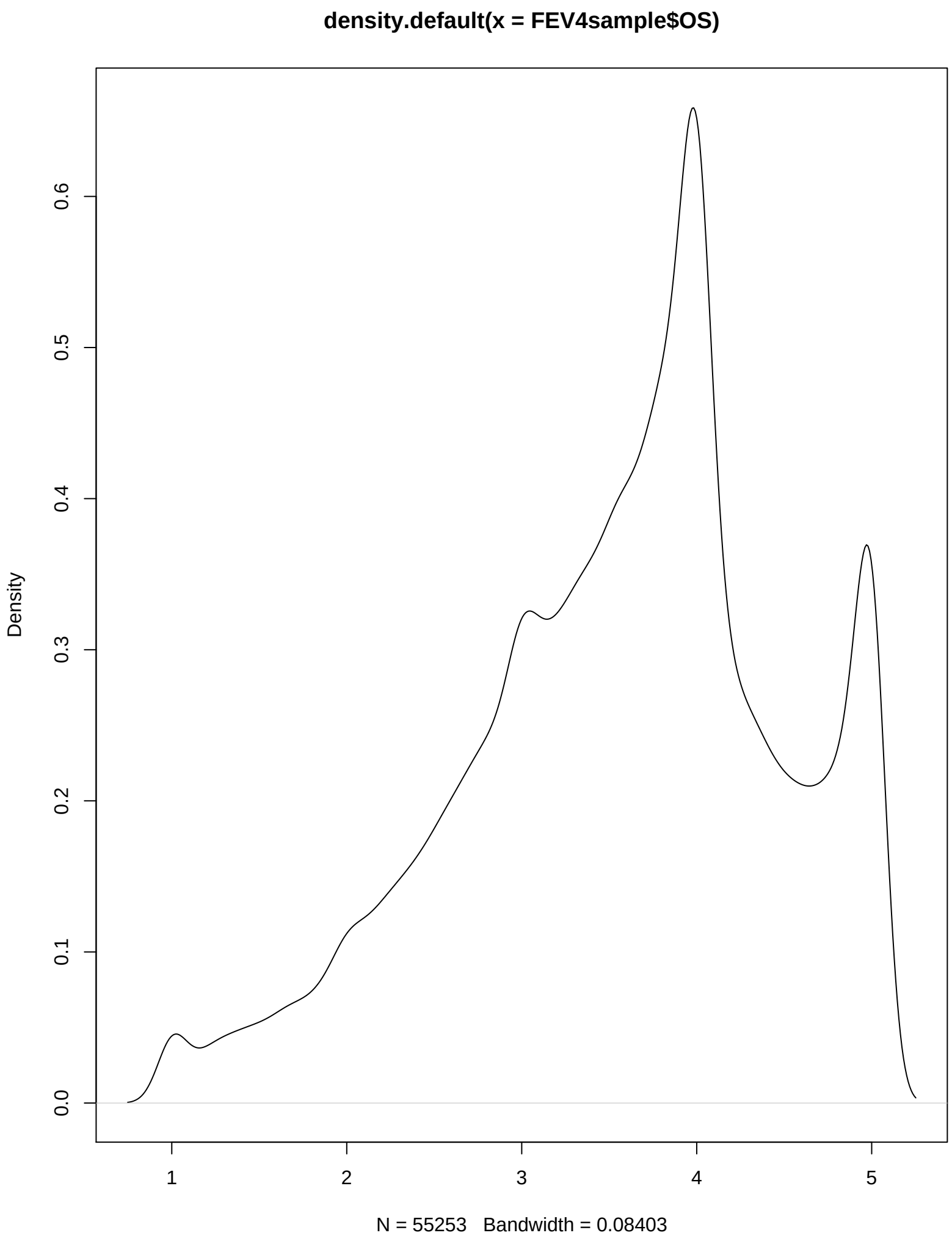
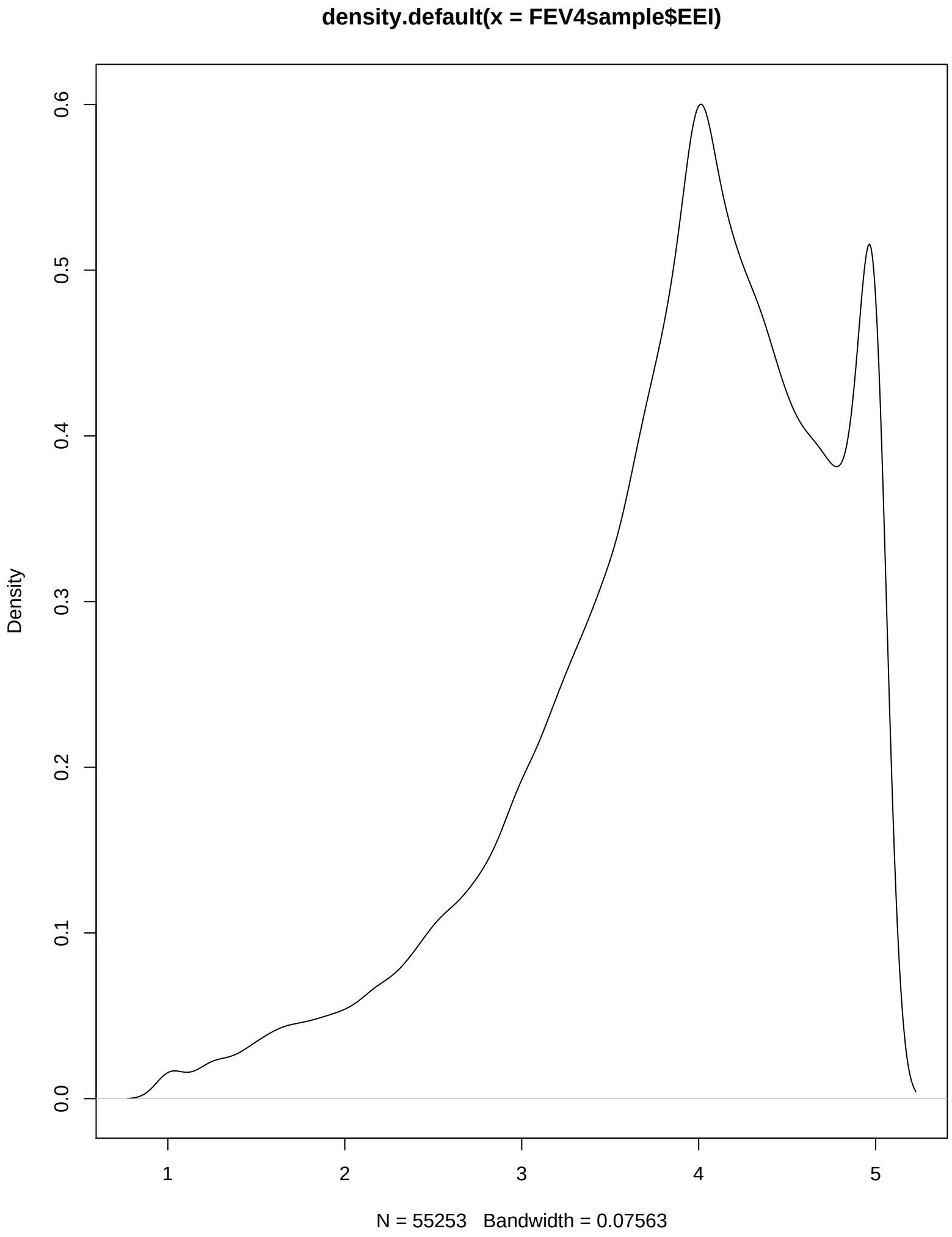
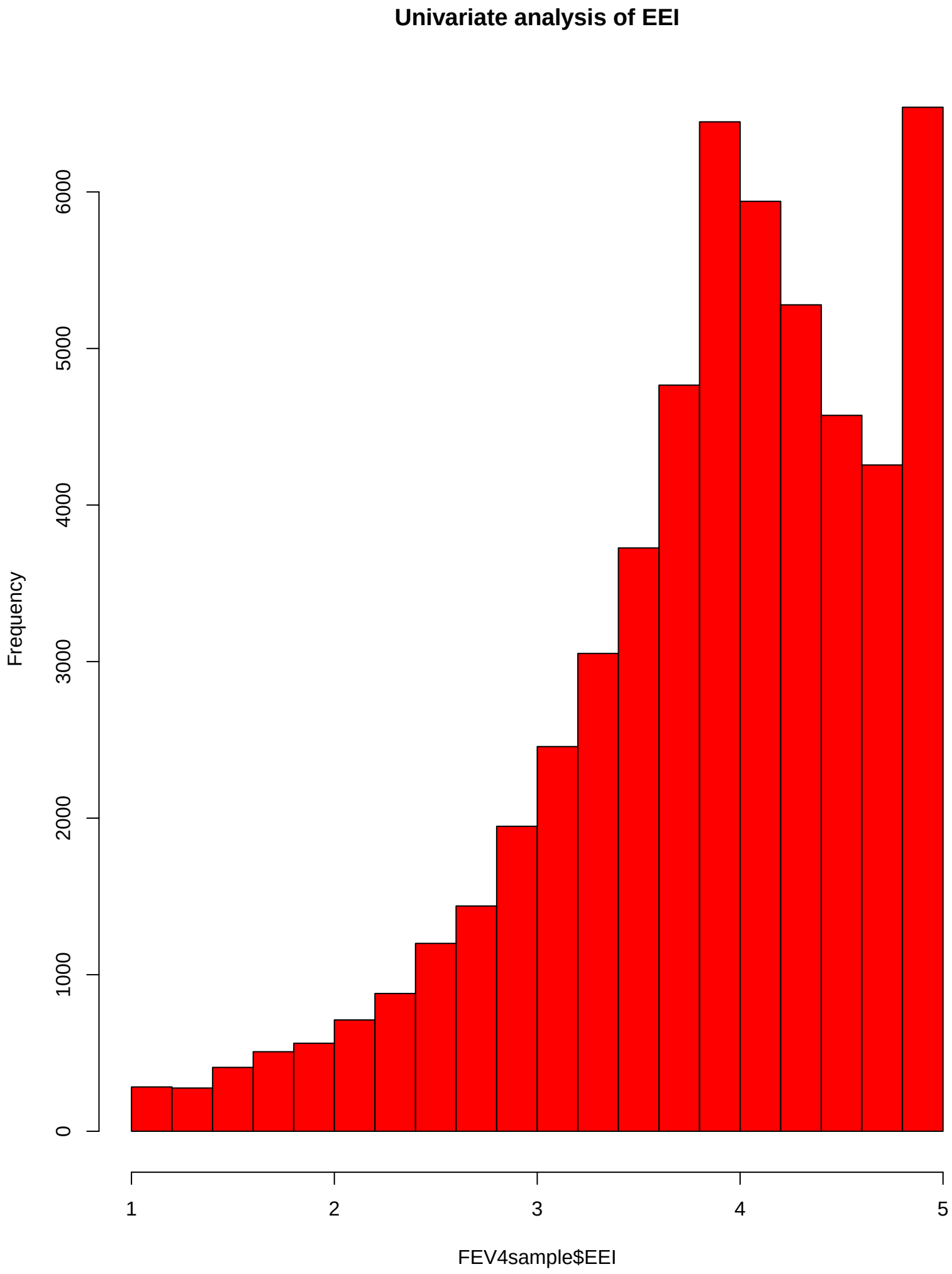
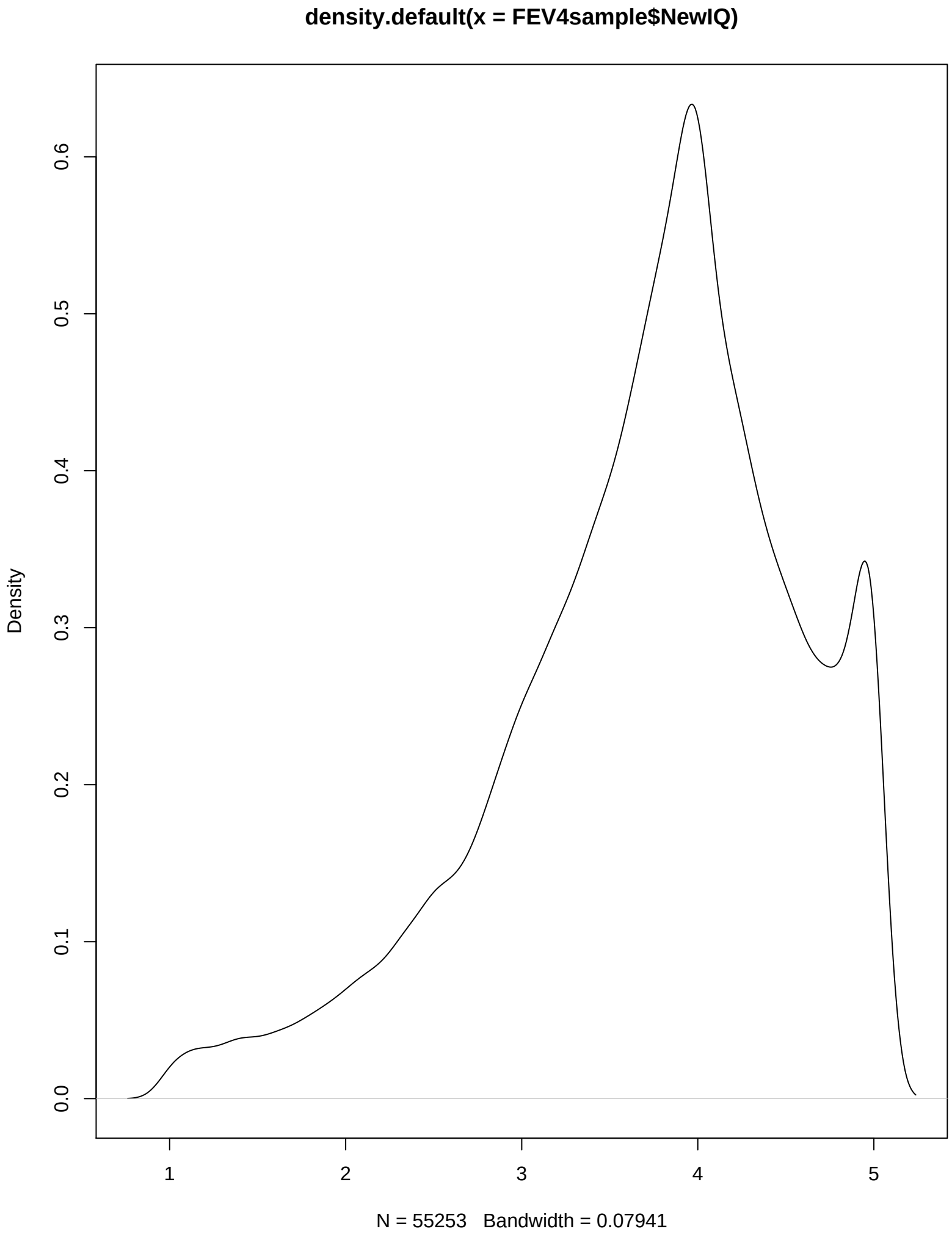
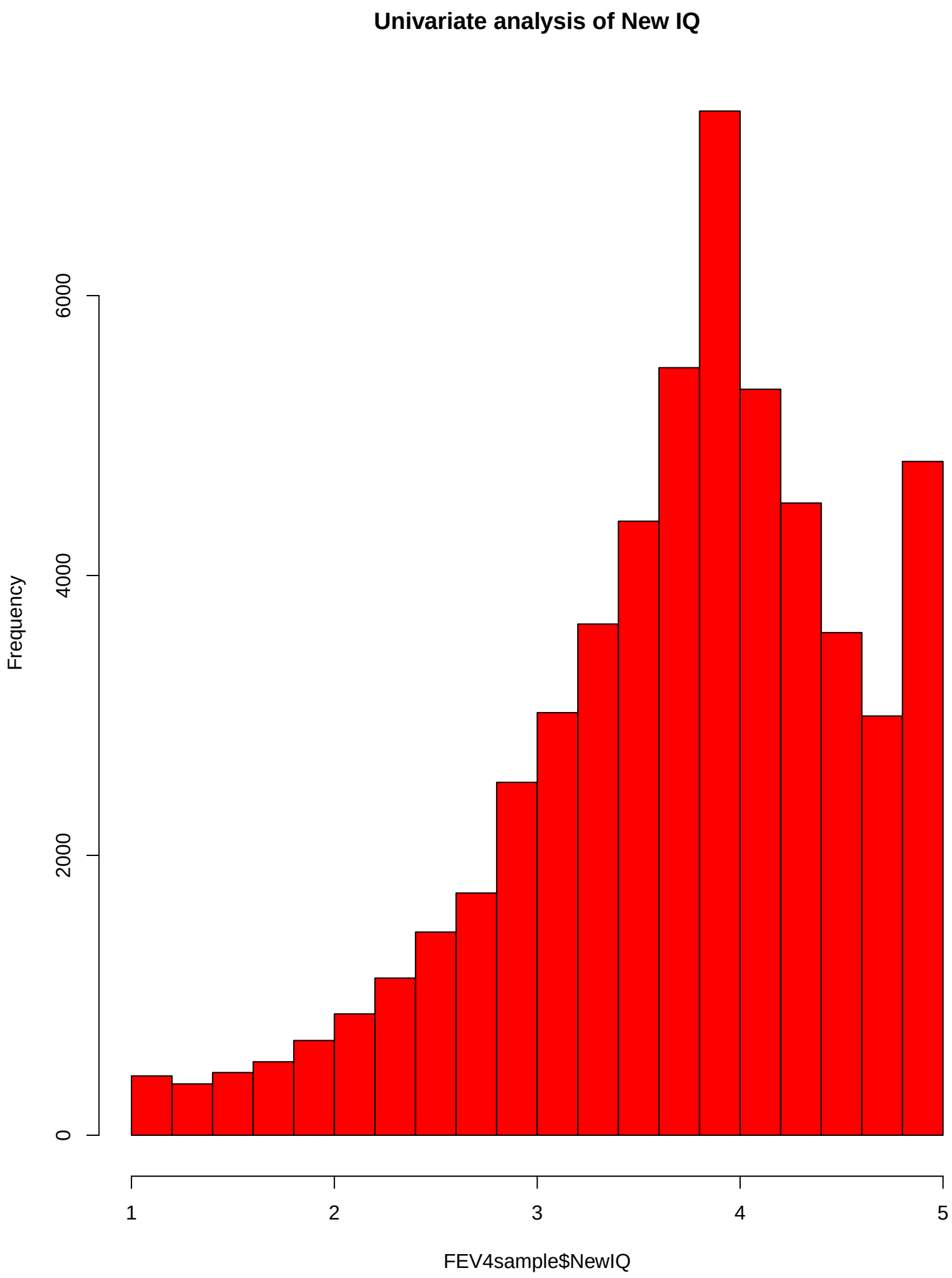
03.06.2018

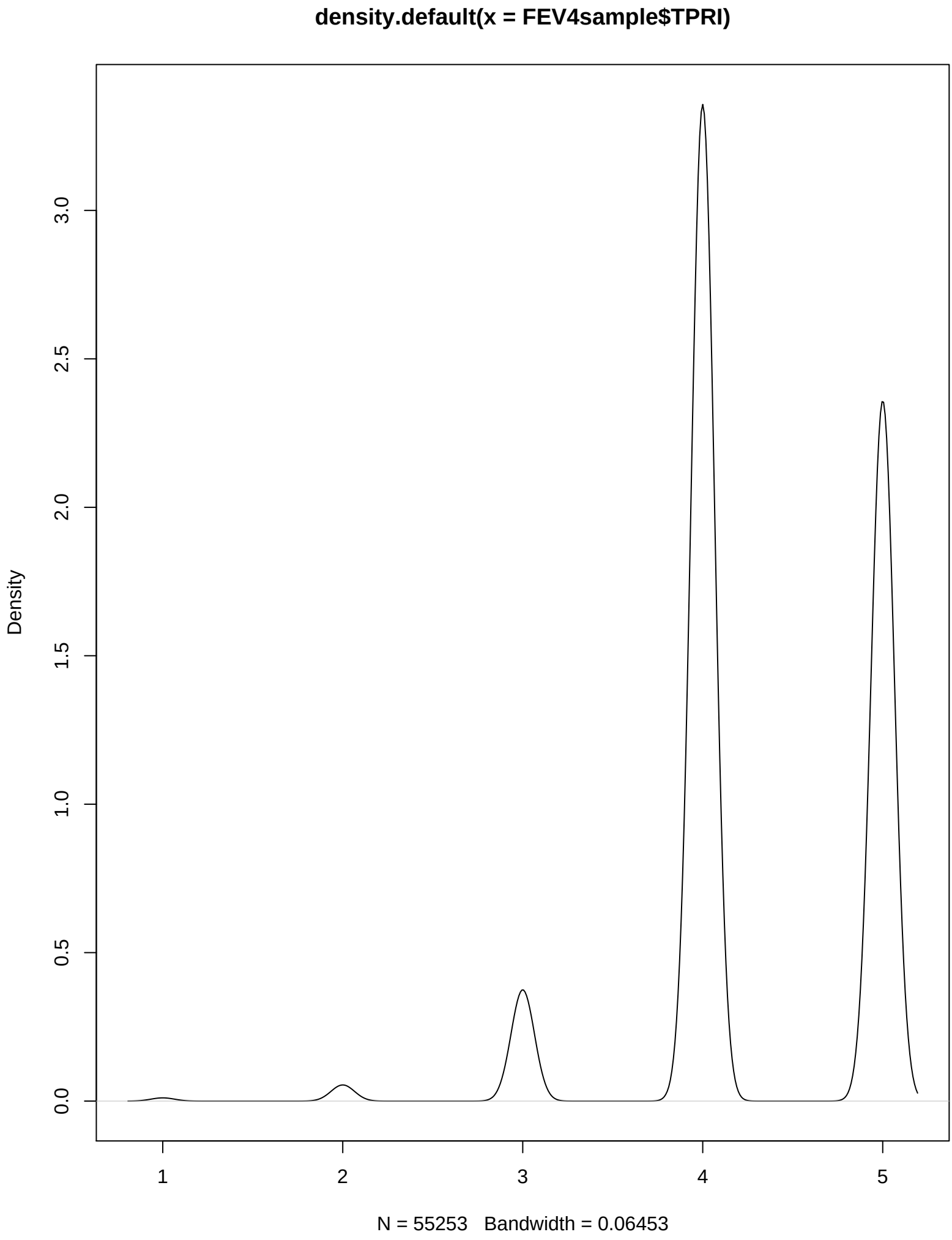

density.default(x = FEV4sample$OS)
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
4
5
N = 55253 Bandwidth = 0.08403

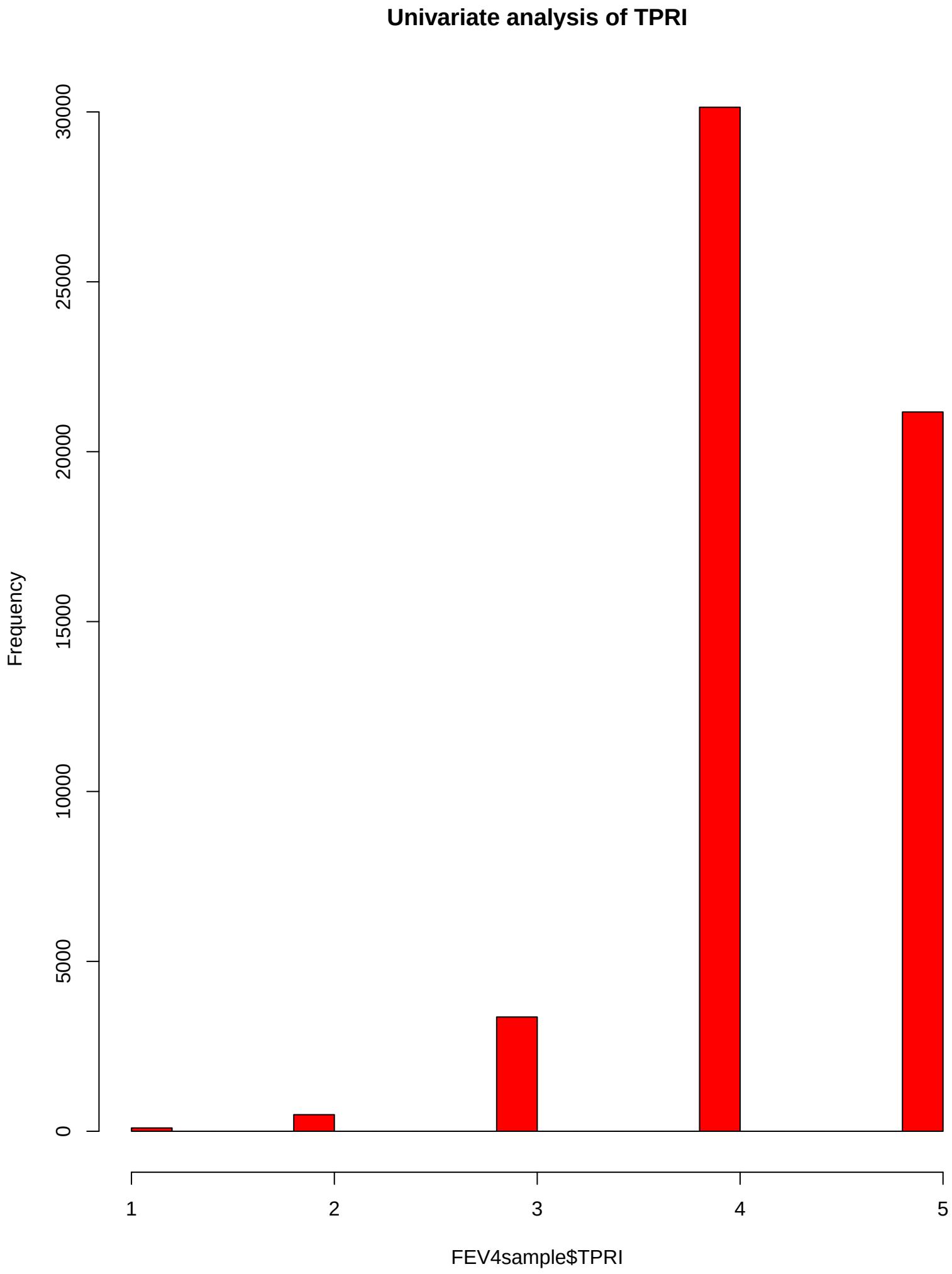

density.default(x = FEV4sample$EEI)
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
4
5
N = 55253 Bandwidth = 0.07563

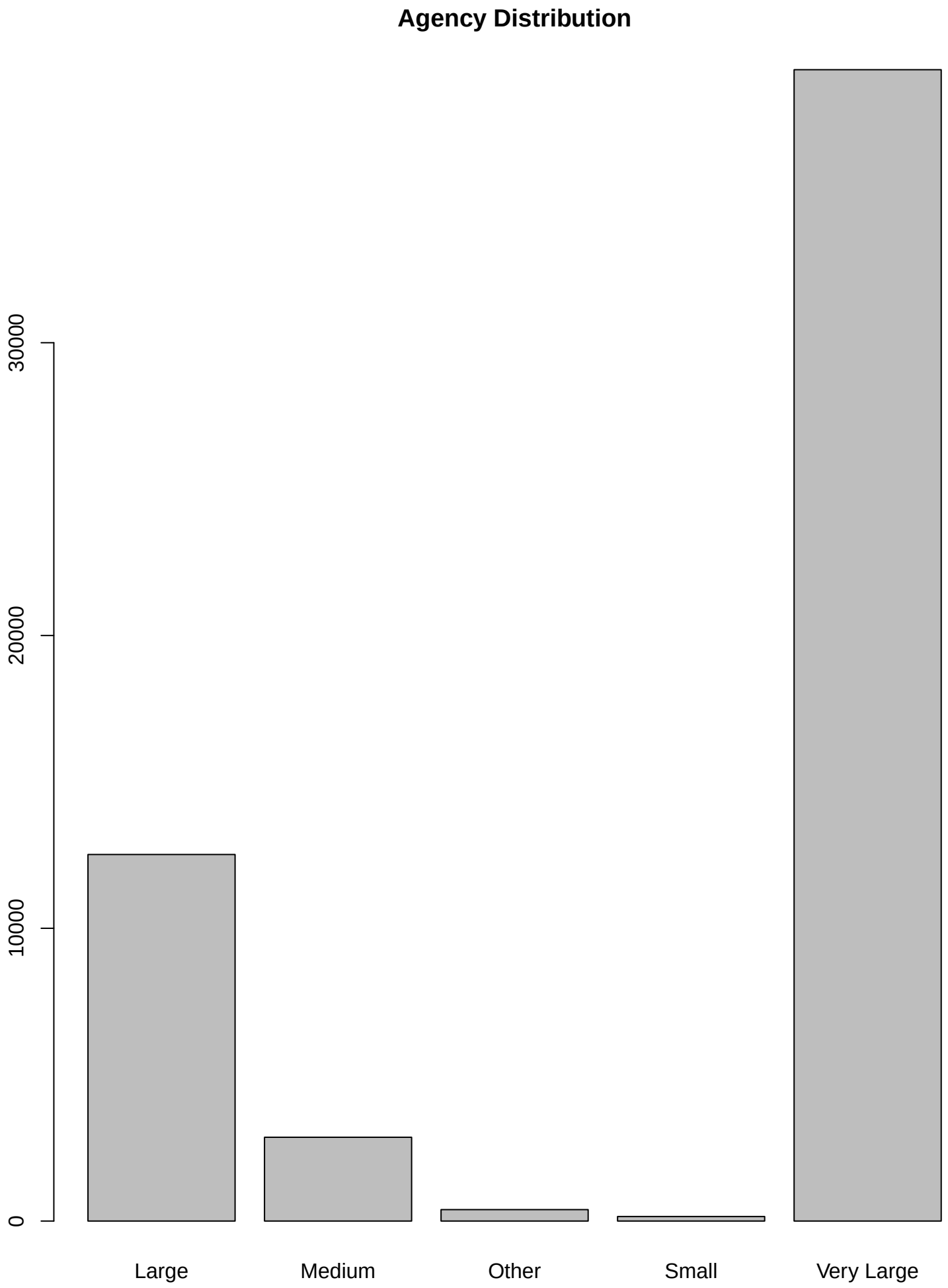

Univariate analysis of EEI
Frequency
0
1000
2000
3000
4000
5000
6000
1
2
3
4
5
FEV4sample$EEI

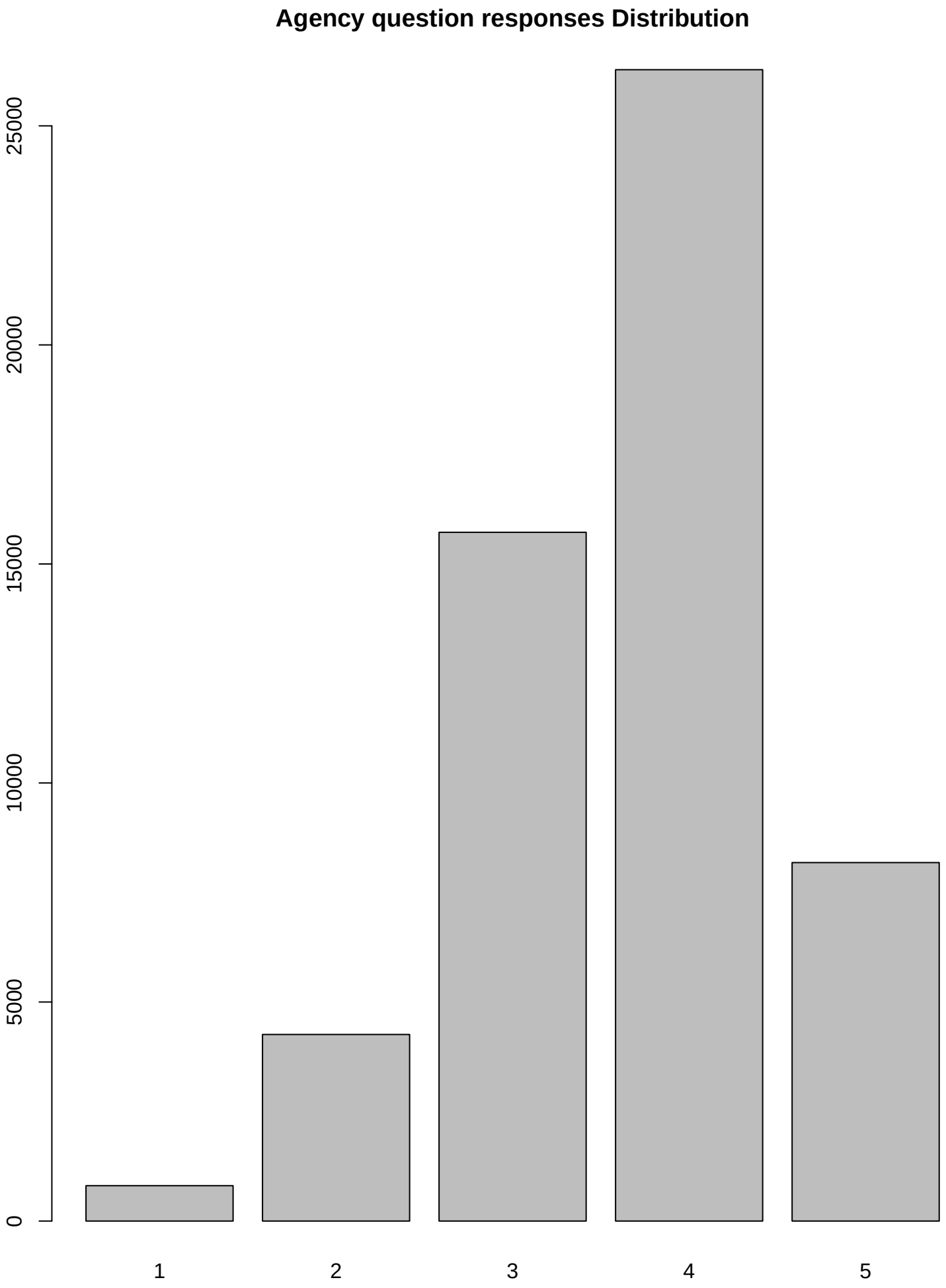

density.default(x = FEV4sample$NewIQ)
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
4
5
N = 55253 Bandwidth = 0.07941

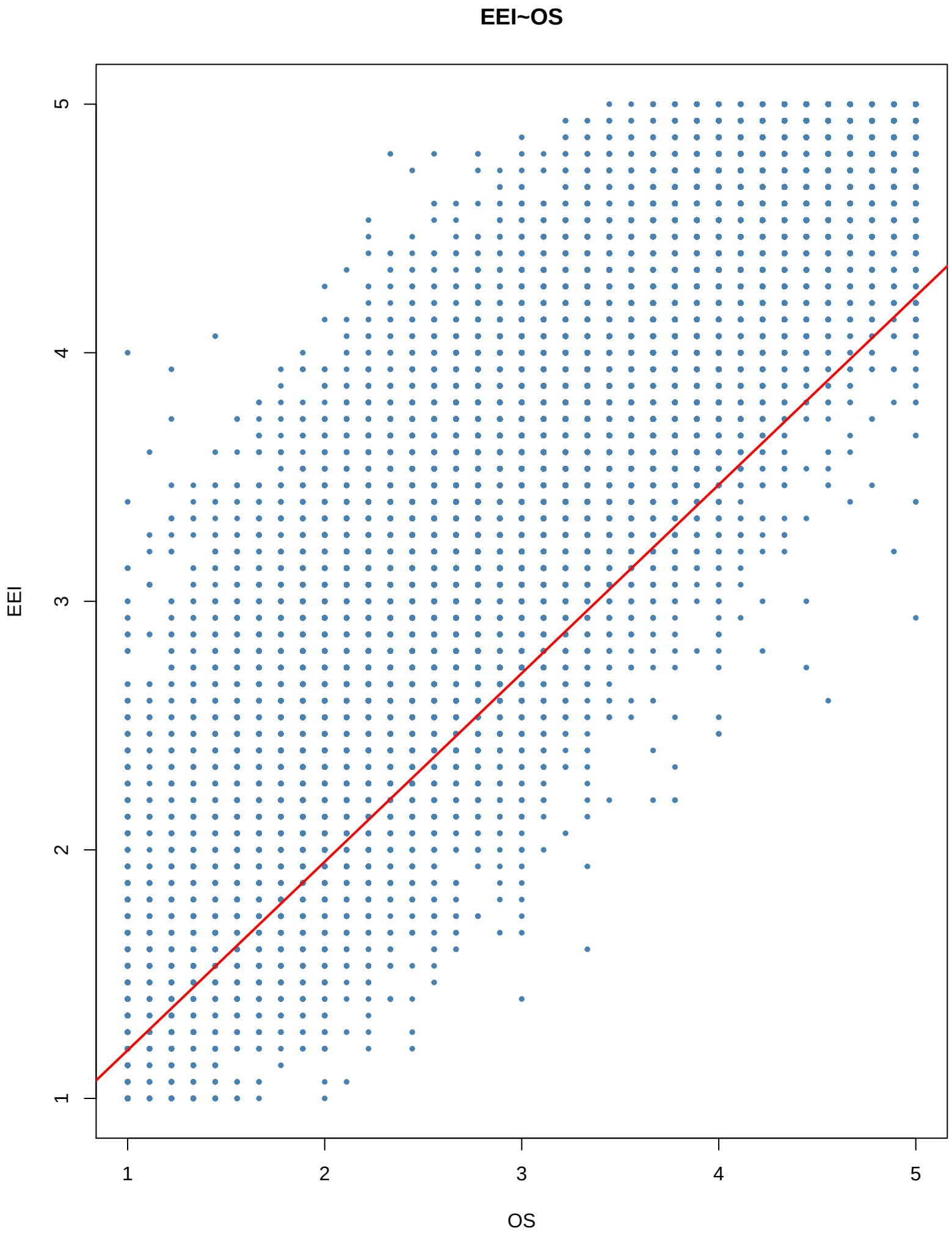

Univariate analysis of New IQ
Frequency
0
2000
4000
6000
1
2
3
4
5
FEV4sample$NewIQ

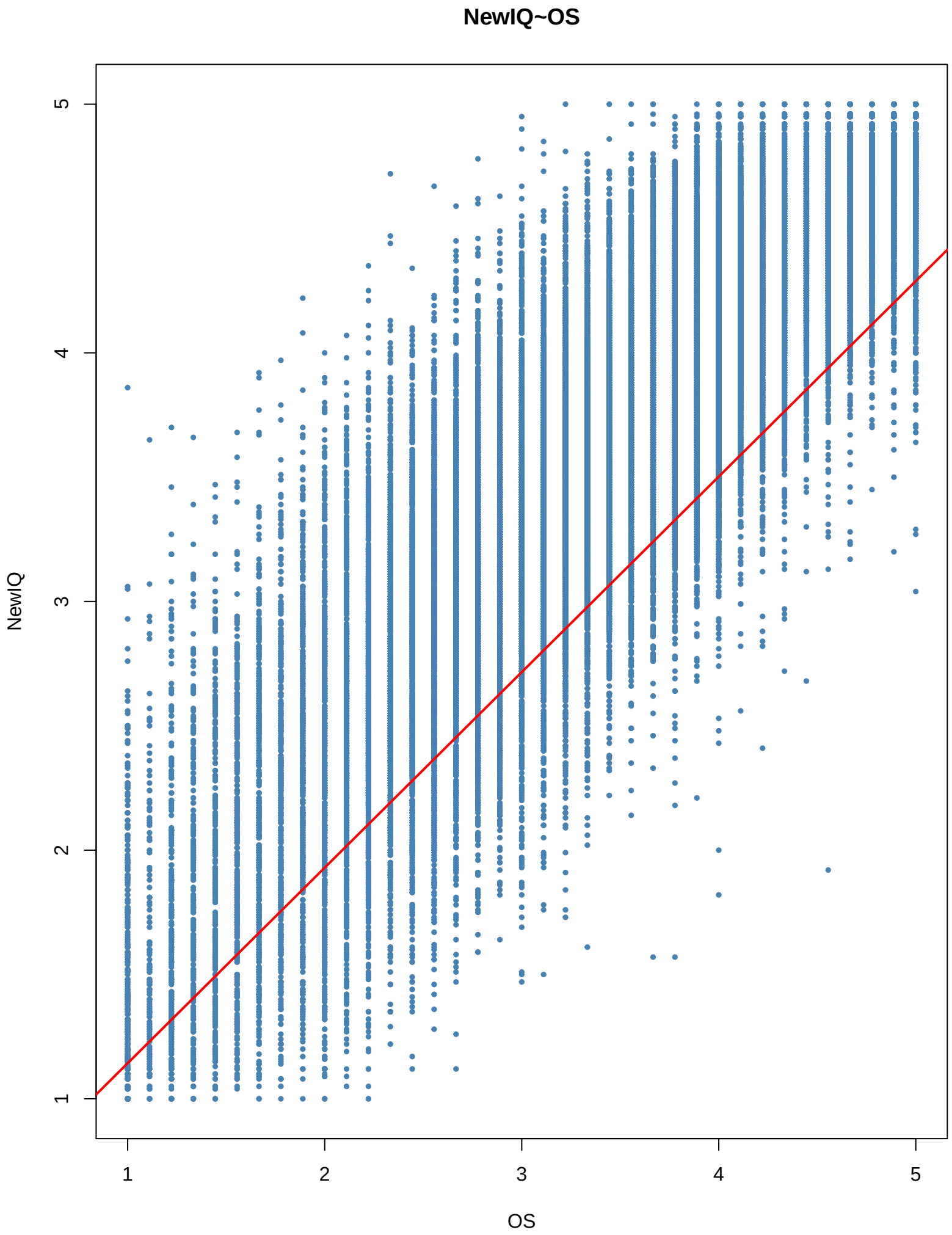

density.default(x = FEV4sample$TPRI)
Density
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1
2
3
4
5
N = 55253 Bandwidth = 0.06453

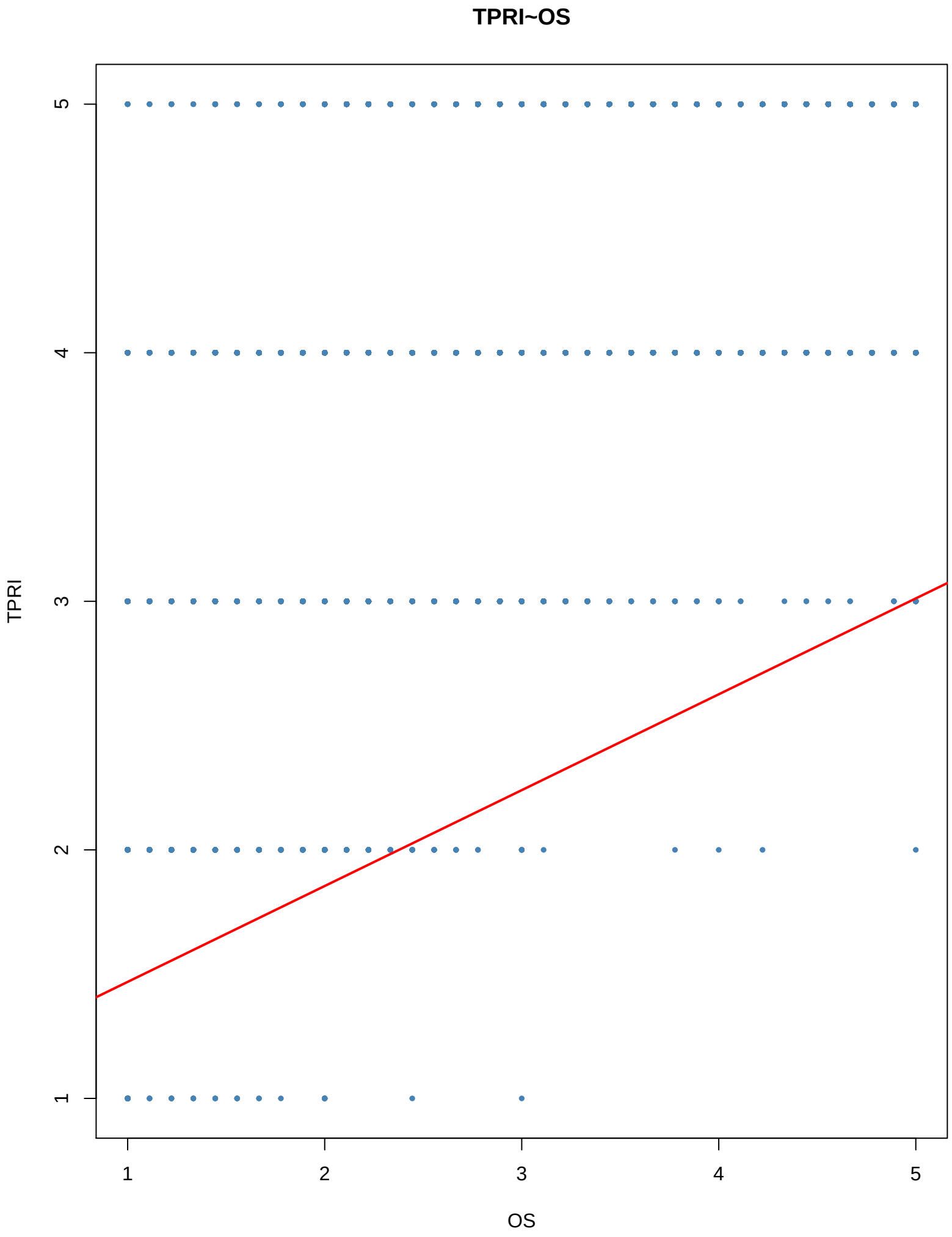

Univariate analysis of TPRI
Frequency
0
5000
10000
15000
20000
25000
30000
1
2
3
4
5
FEV4sample$TPRI

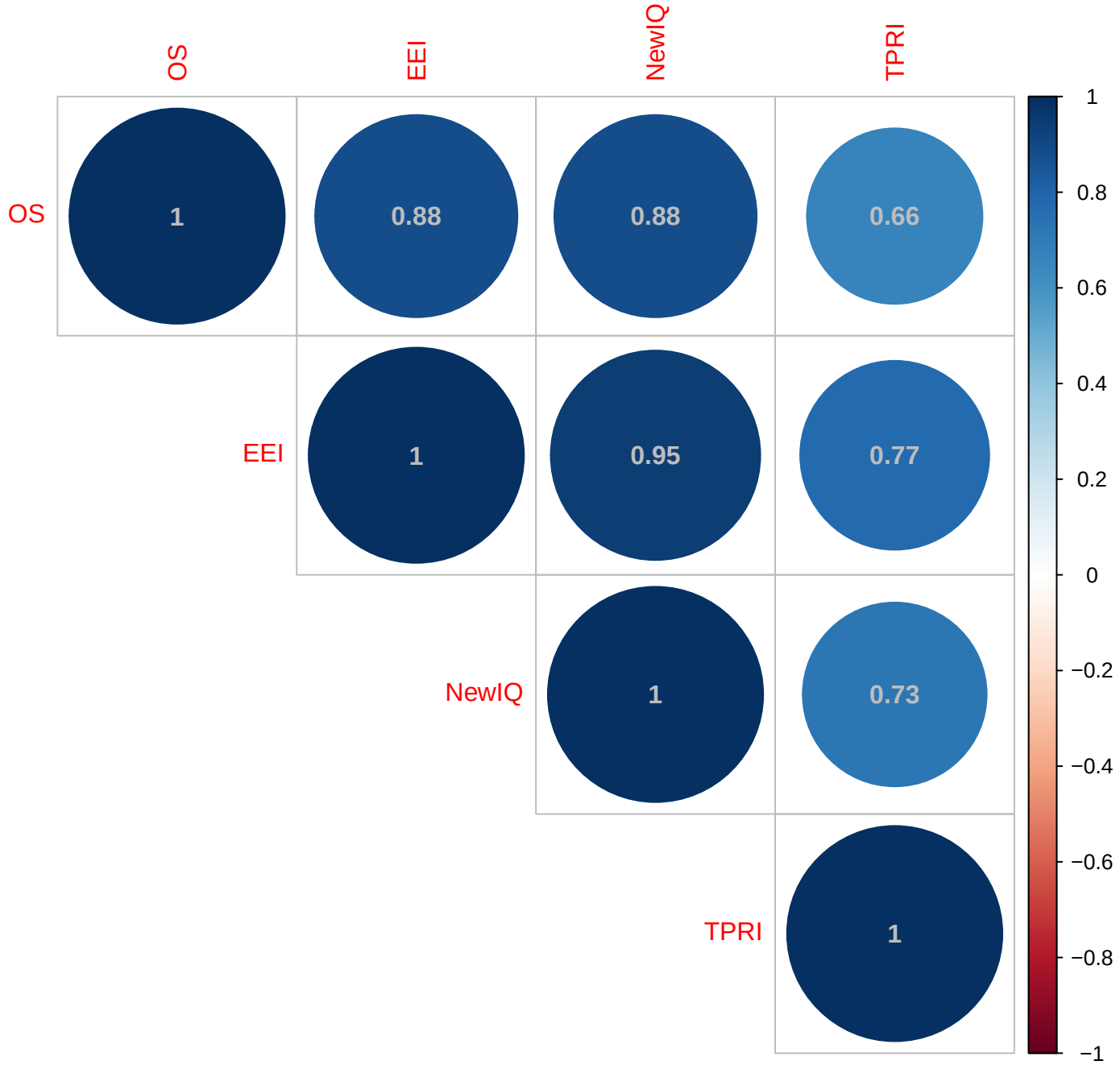

Agency Distribution
30000
20000
10000
0
Large
Medium
Other
Small
Very Large

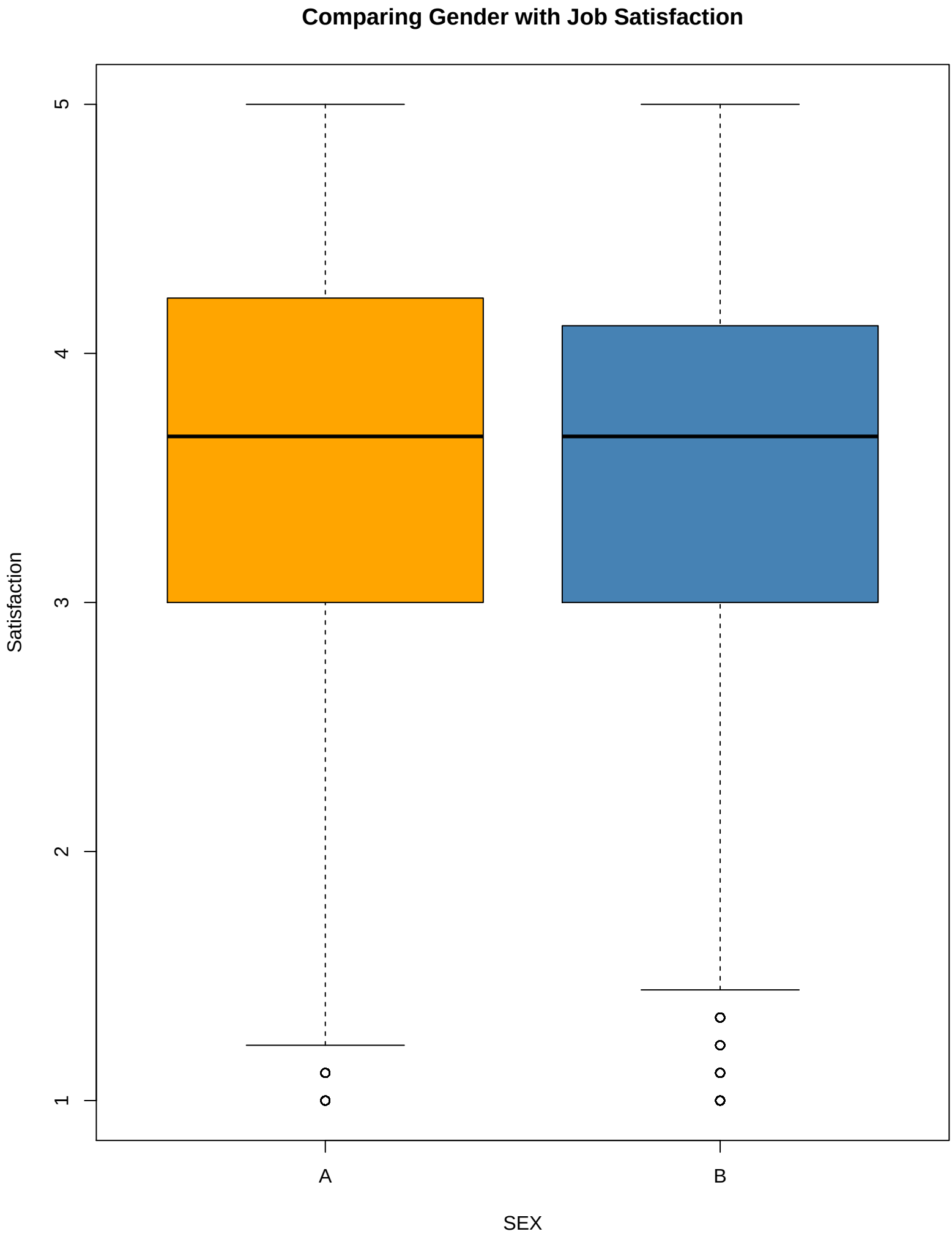

Agency question responses Distribution
0
5000
10000
15000
20000
25000
1
2
3
4
5

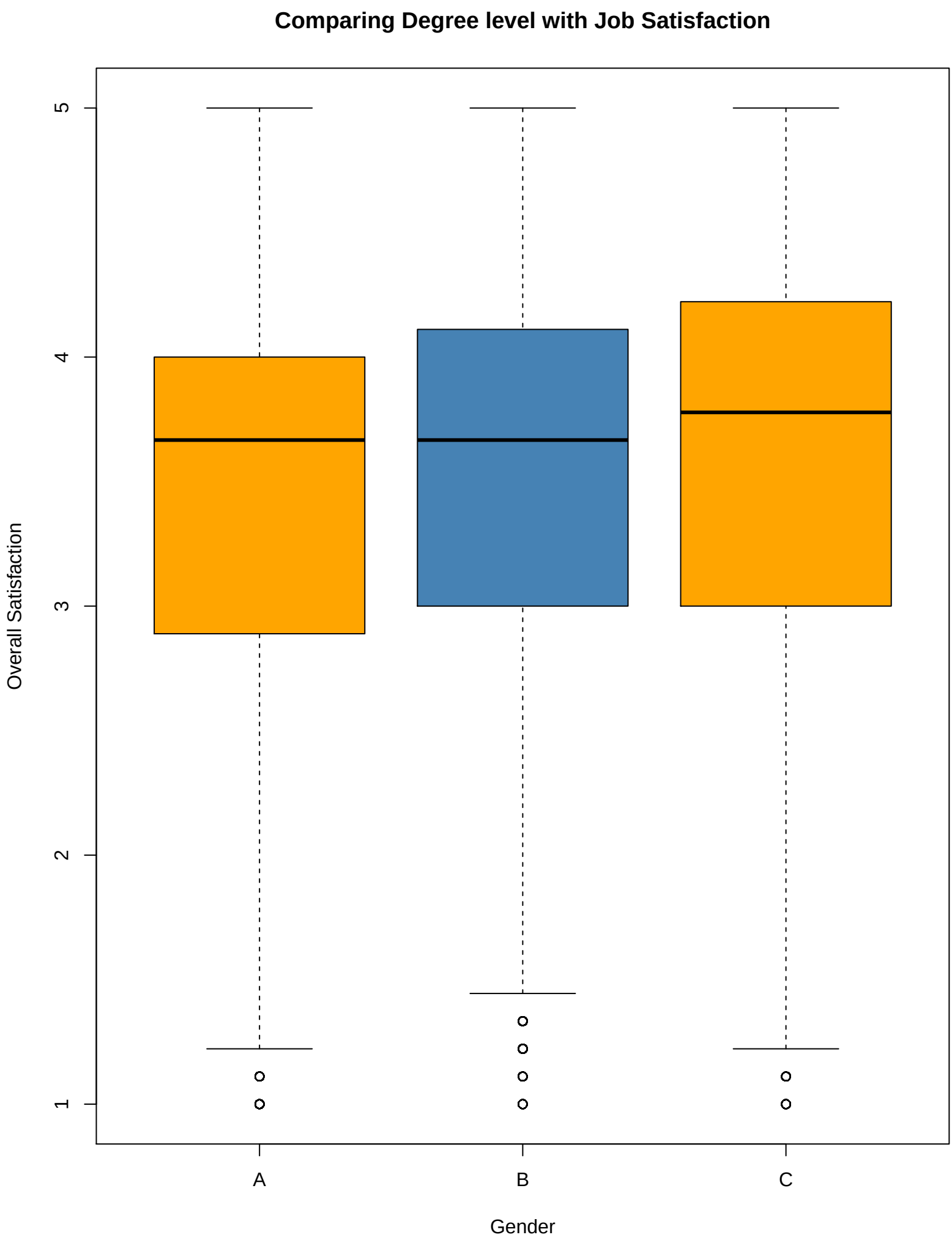

EEI~OS
EEI
OS
1
2
3
4
5
1
2
3
4
5

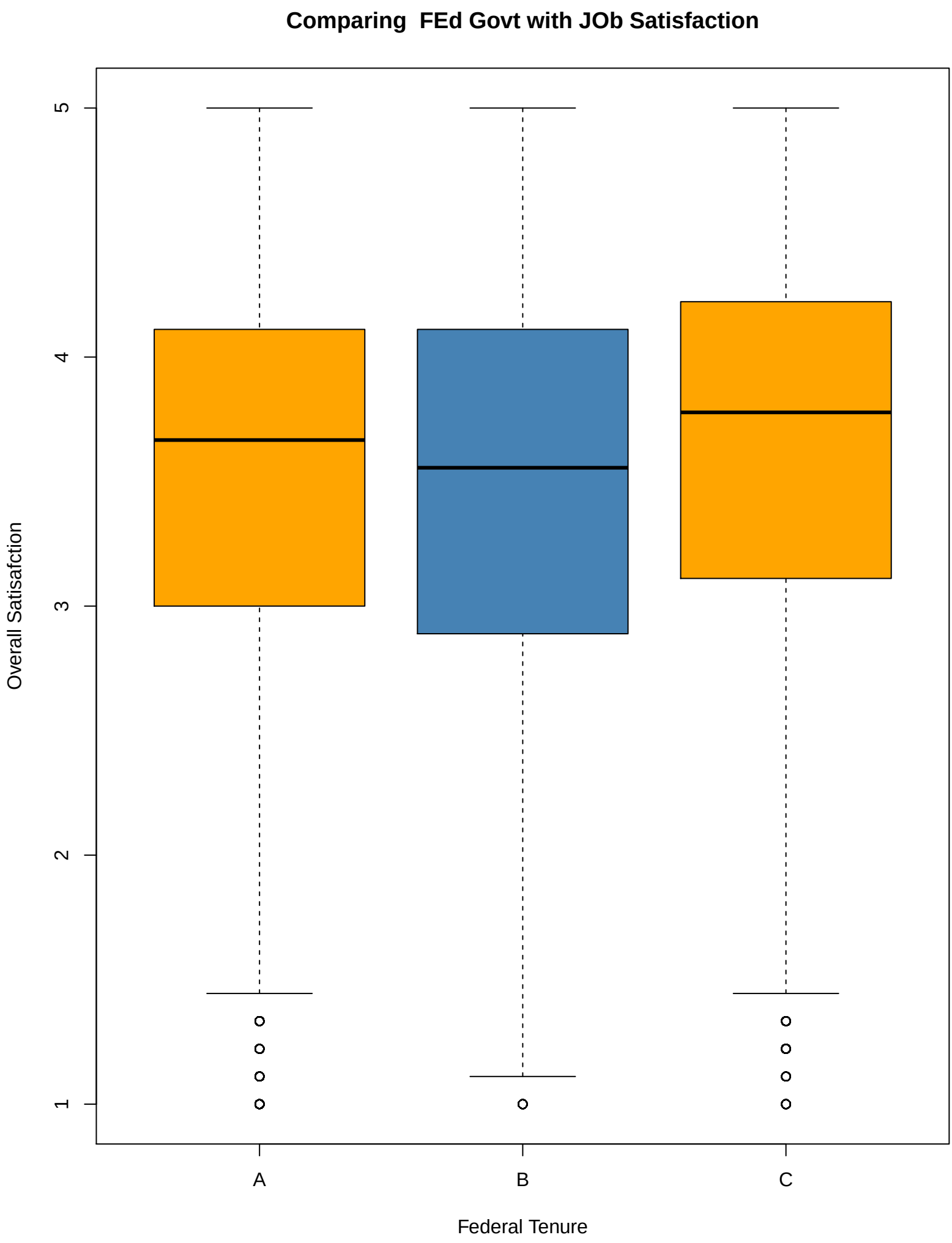

NewIQ~OS
NewIQ
OS
1
2
3
4
5
1
2
3
4
5

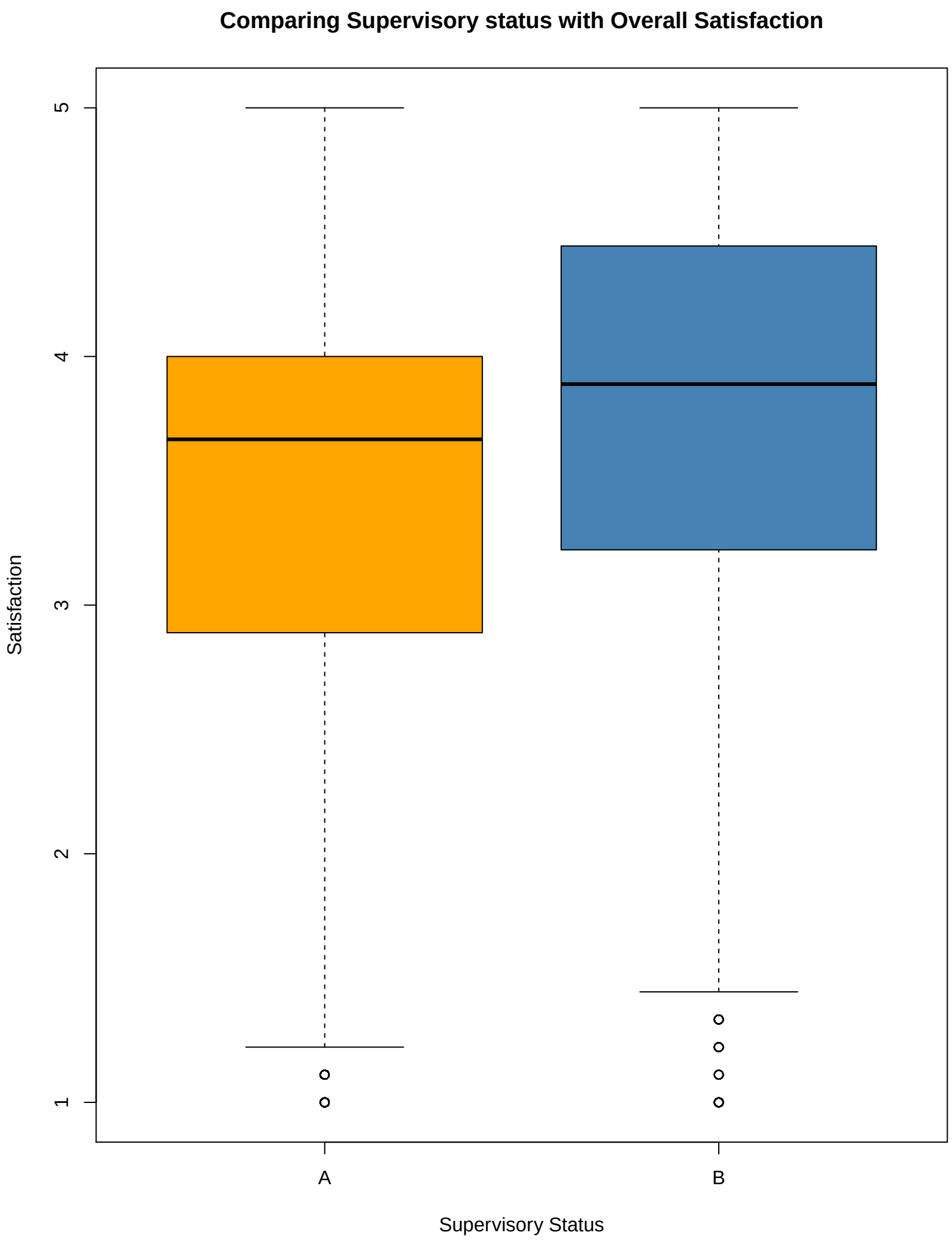

TPRI~OS
TPRI
OS
1
2
3
4
5
1
2
3
4
5

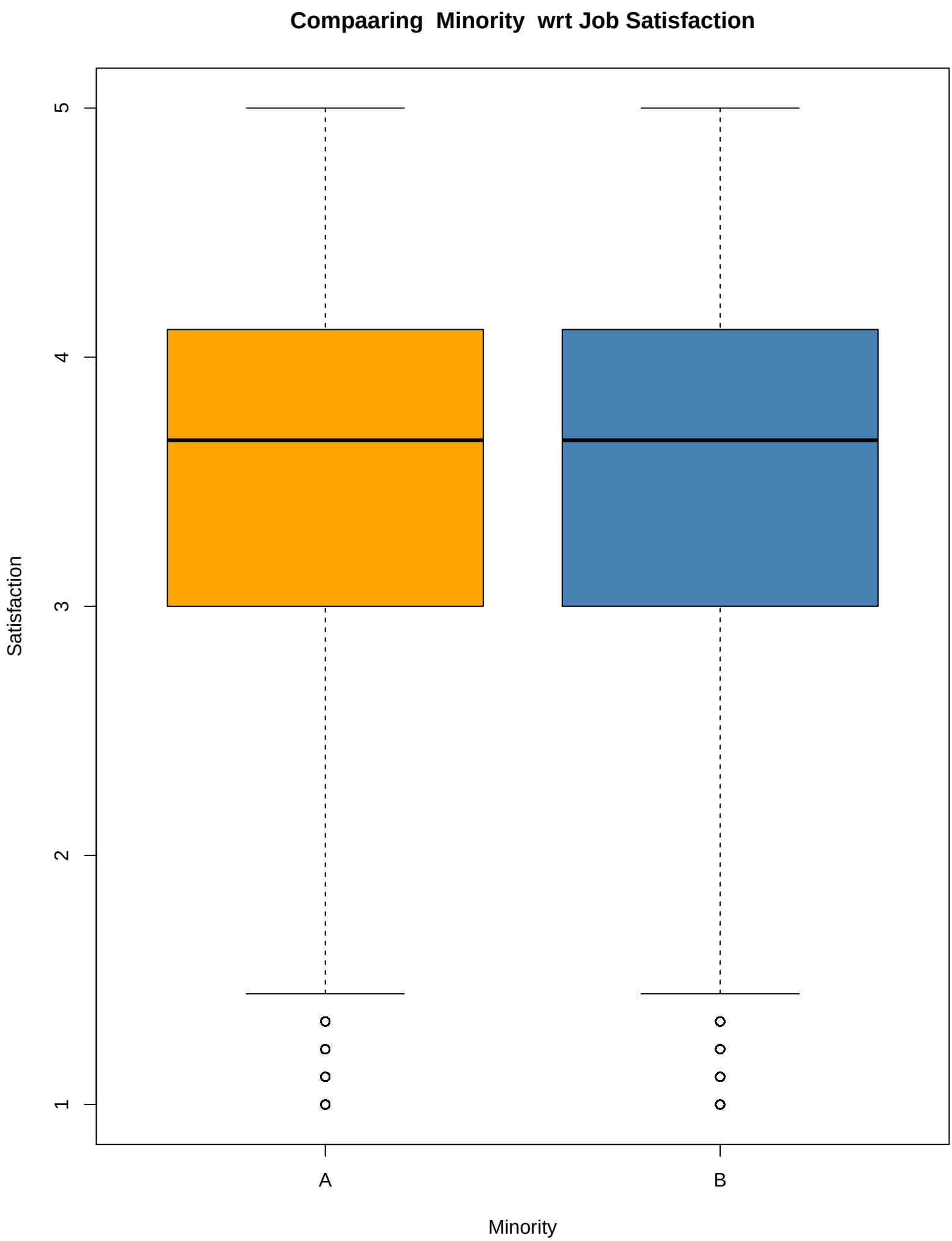

OS
EEI
NewIQ
TPRI
1
0.88
0.88
0.66
1
0.95
0.77
1
0.73
1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

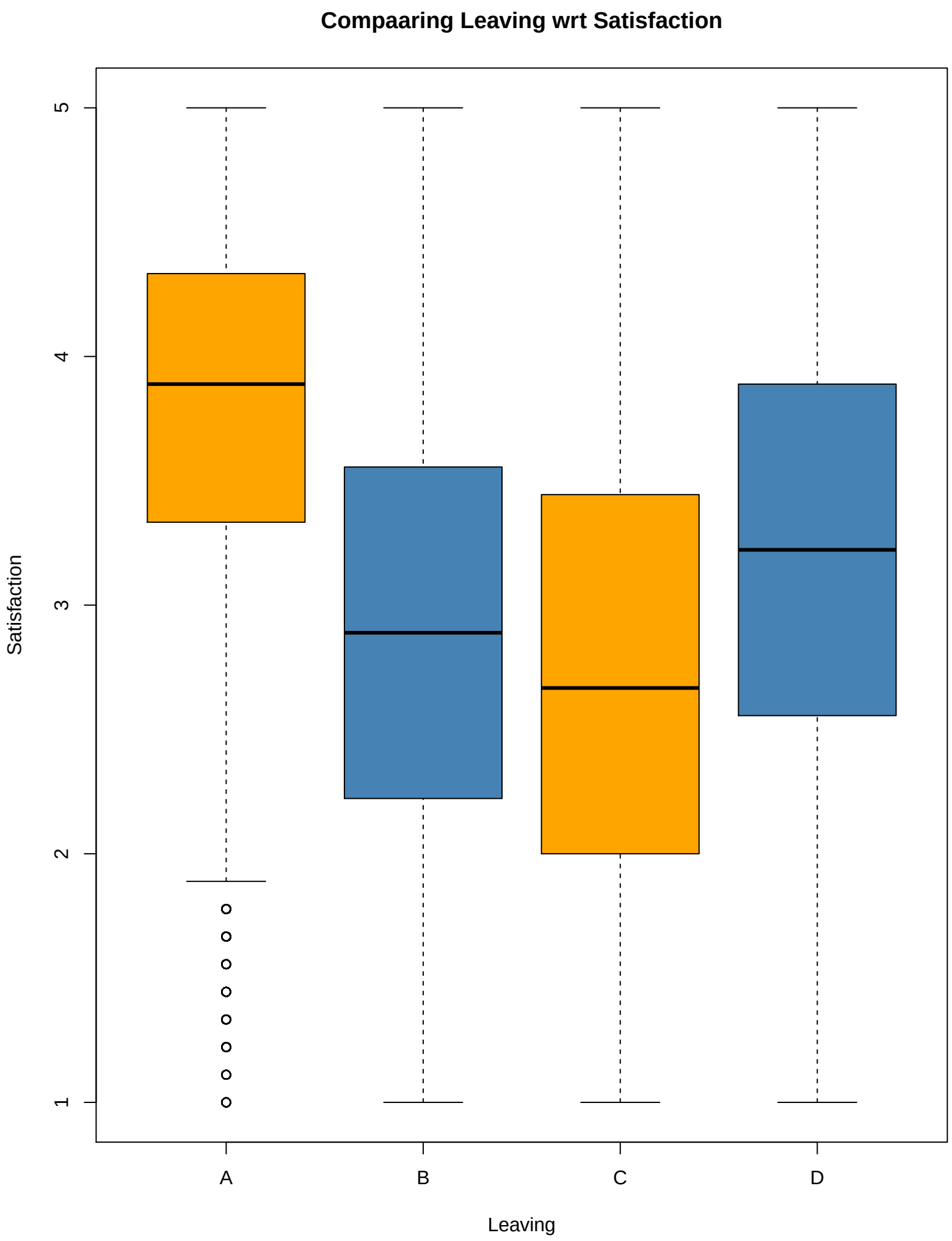

Comparing Gender with Job Satisfaction
Satisfaction
5
4
3
2
1
A
B
SEX

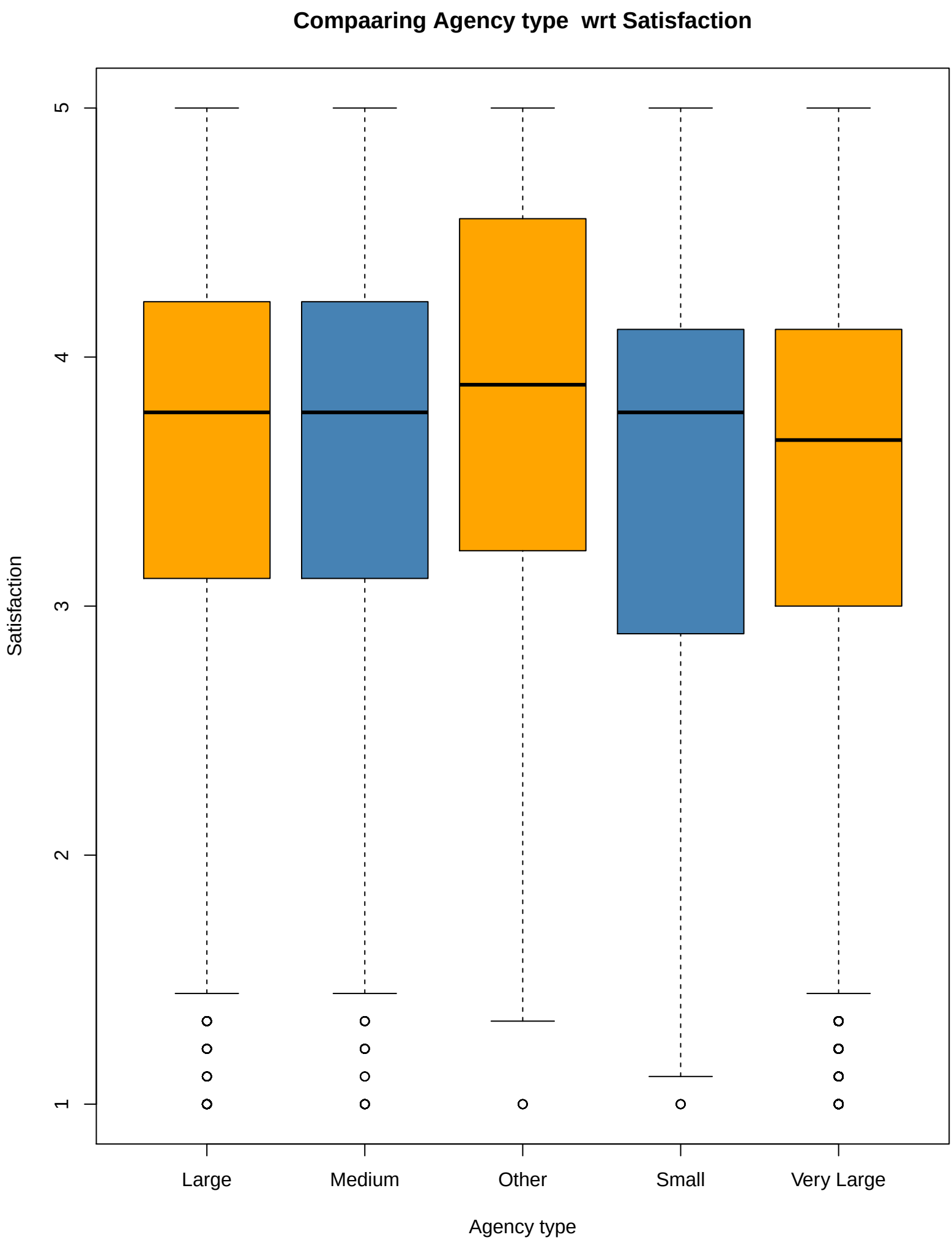

Comparing Degree level with Job Satisfaction
Overall Satisfaction
5
4
3
2
1
A
B
C
Gender

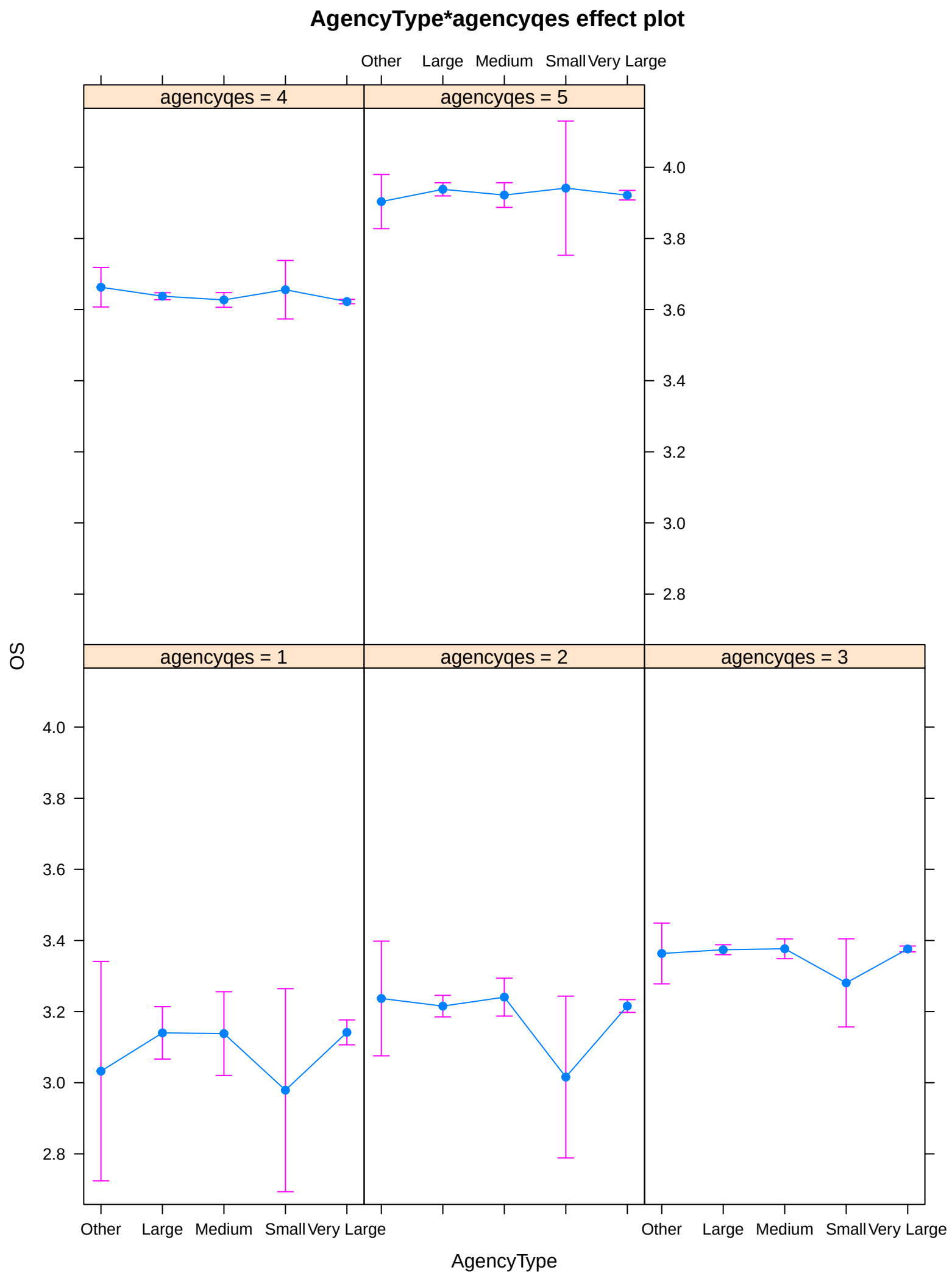

Comparing FEd Govt with JOb Satisfaction
Overall Satisafction
5
4
3
2
1
A
B
C
Federal Tenure

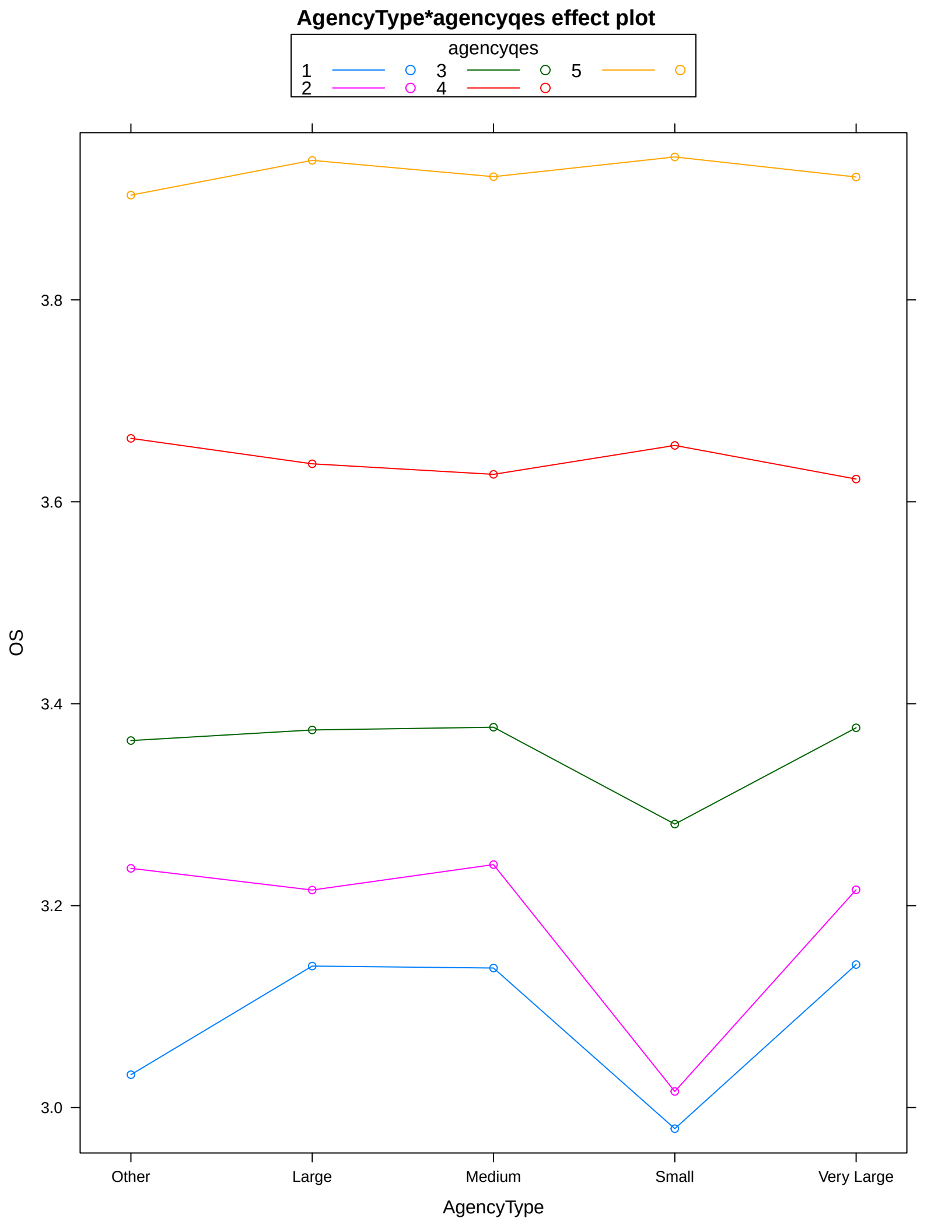

Comparing Supervisory status with Overall Satisfaction
Satisfaction
5
4
3
2
1
A
B
Supervisory Status

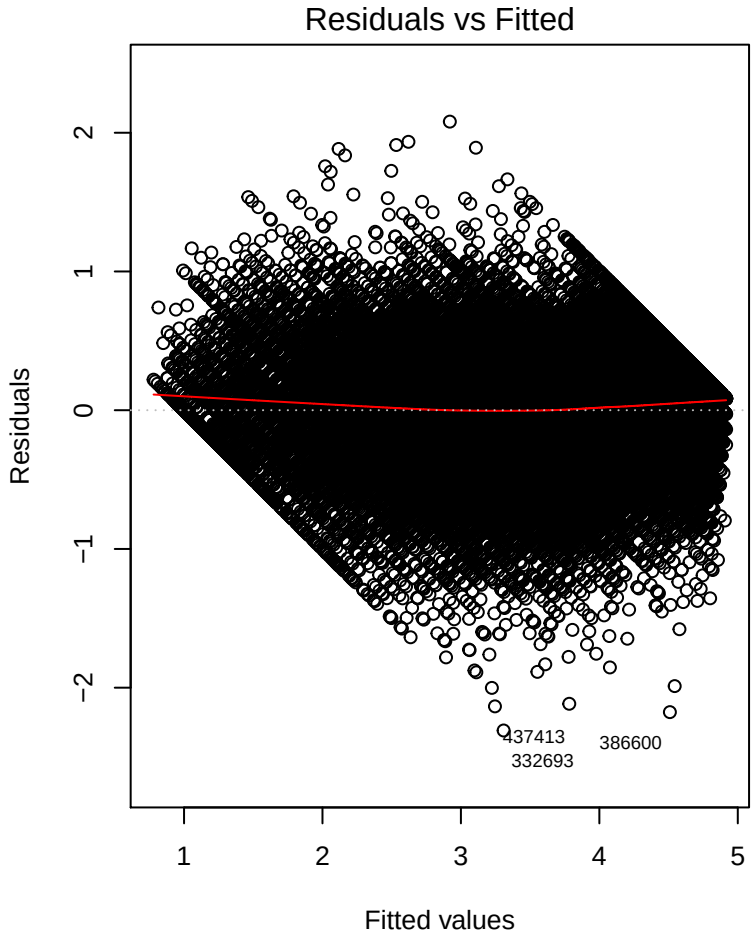

Compaaring Minority wrt Job Satisfaction
Satisfaction
5
4
3
2
1
A
B
Minority

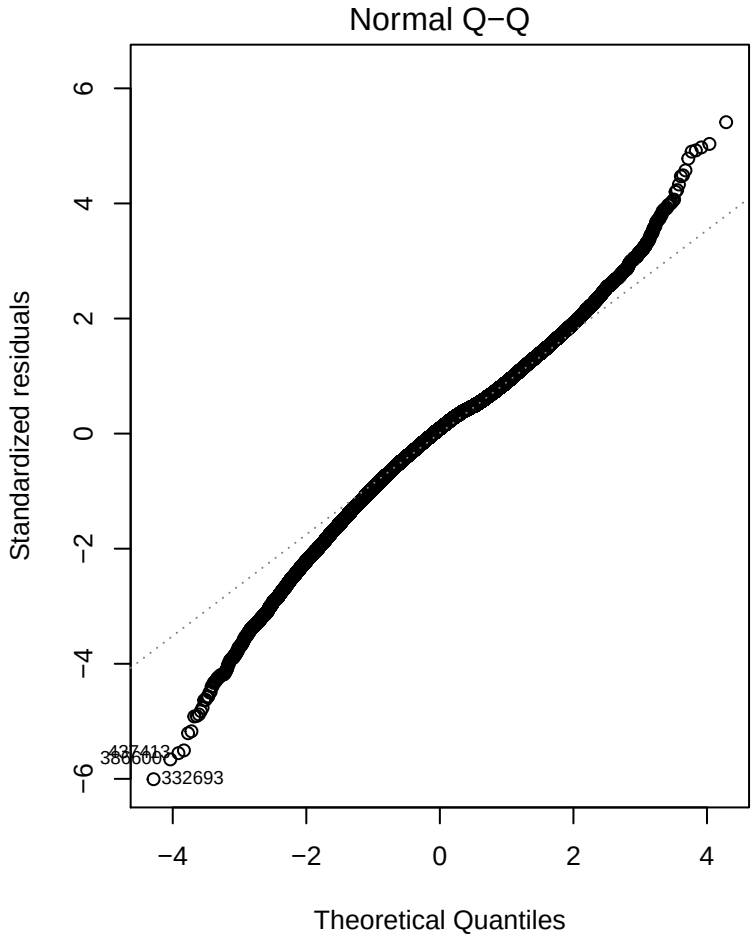

Compaaring Leaving wrt Satisfaction
Satisfaction
1
2
3
4
5
A
B
C
D
Leaving

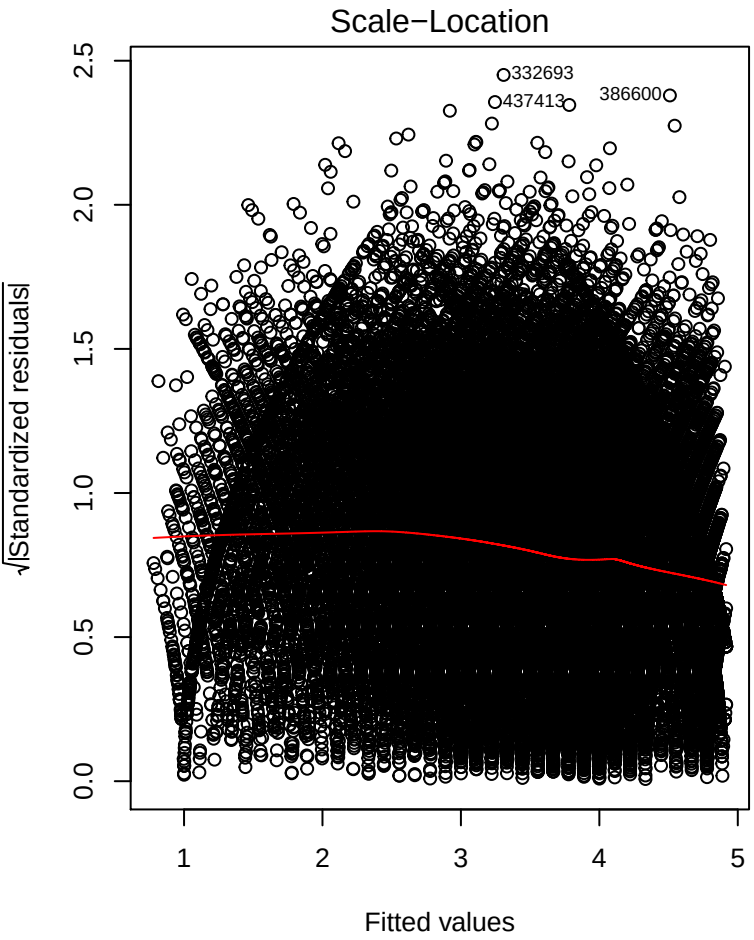

Compaaring Agency type wrt Satisfaction
Satisfaction
5
4
3
2
1
Large
Medium
Other
Small
Very Large
Agency type

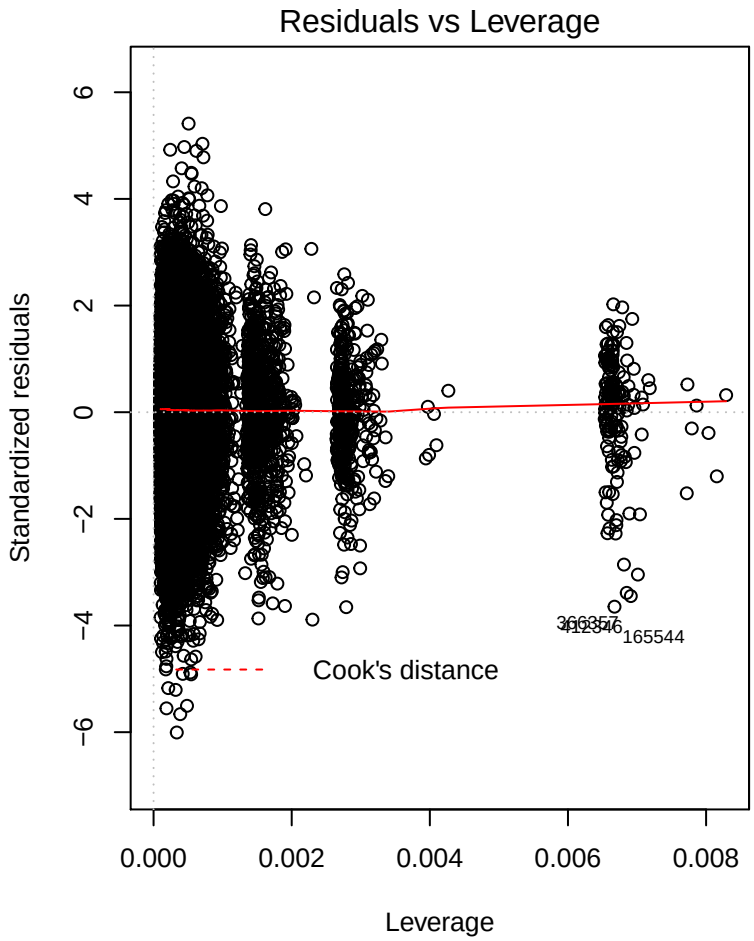

AgencyType*agencyqes effect plot
agencyqes = 4
agencyqes = 5
agencyqes = 1
agencyqes = 2
agencyqes = 3
OS
AgencyType
Other
Large
Medium
Small
Very Large
4.0
3.8
3.6
3.4
3.2
3.0
2.8

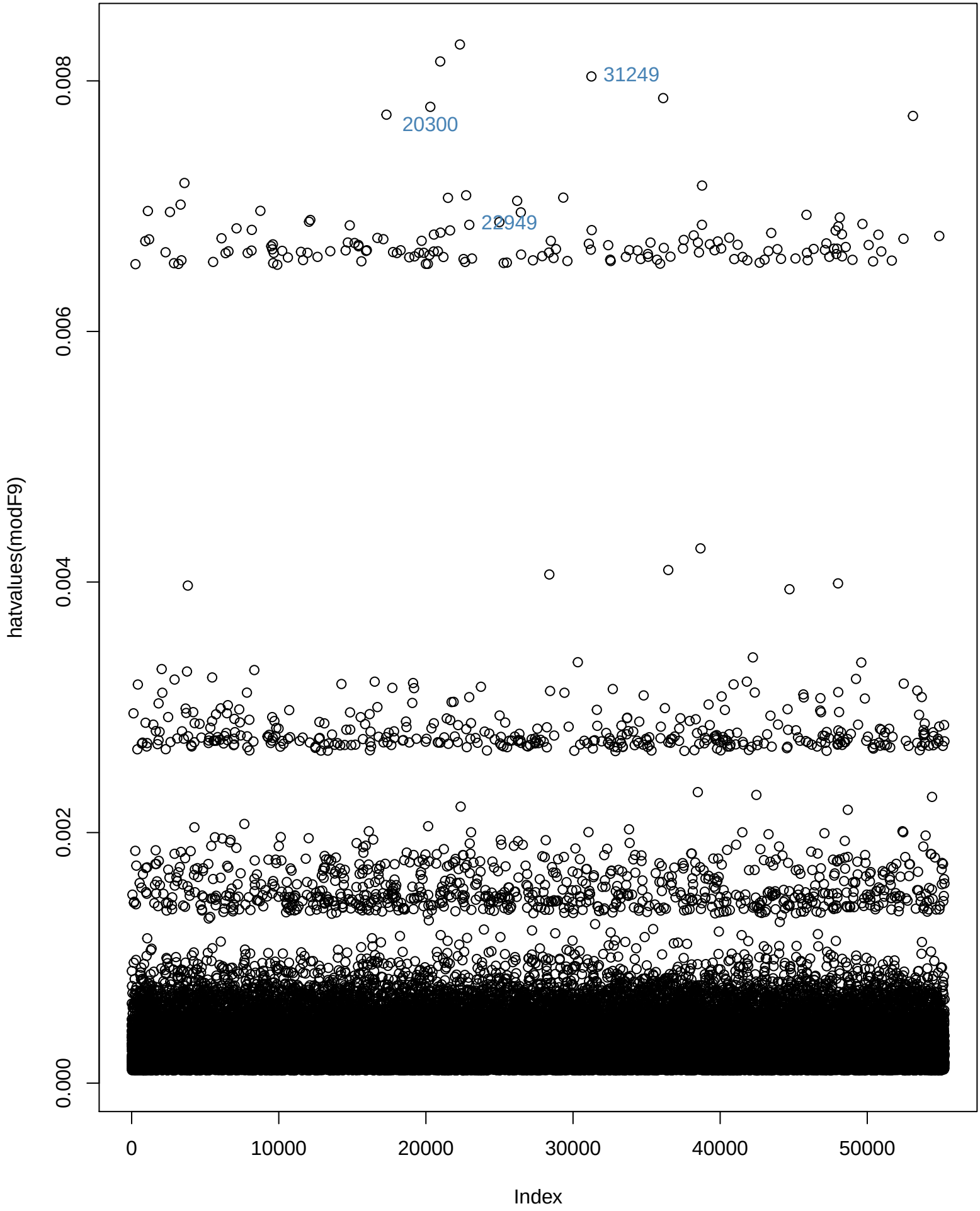

AgencyType*agencyqes effect plot
agencyqes
1
2
3
4
5
OS
3.8
3.6
3.4
3.2
3.0
Other
Large
Medium
Small
Very Large
AgencyType


Residuals vs Fitted
Residuals
Fitted values
437413
332693
386600


Normal Q−Q
Standardized residuals
Theoretical Quantiles
437413
386600
332693


Scale−Location
√|Standardized residuals|
Fitted values
332693
437413
386600


Residuals vs Leverage
Standardized residuals
Leverage
Cook's distance
366357
412346
165544


31249
20300
22949
0.008
0.006
0.004
0.002
0.000
hatvalues(modF9)
0
10000
20000
30000
40000
50000
Index