

Annex 5: Statistical data analysis

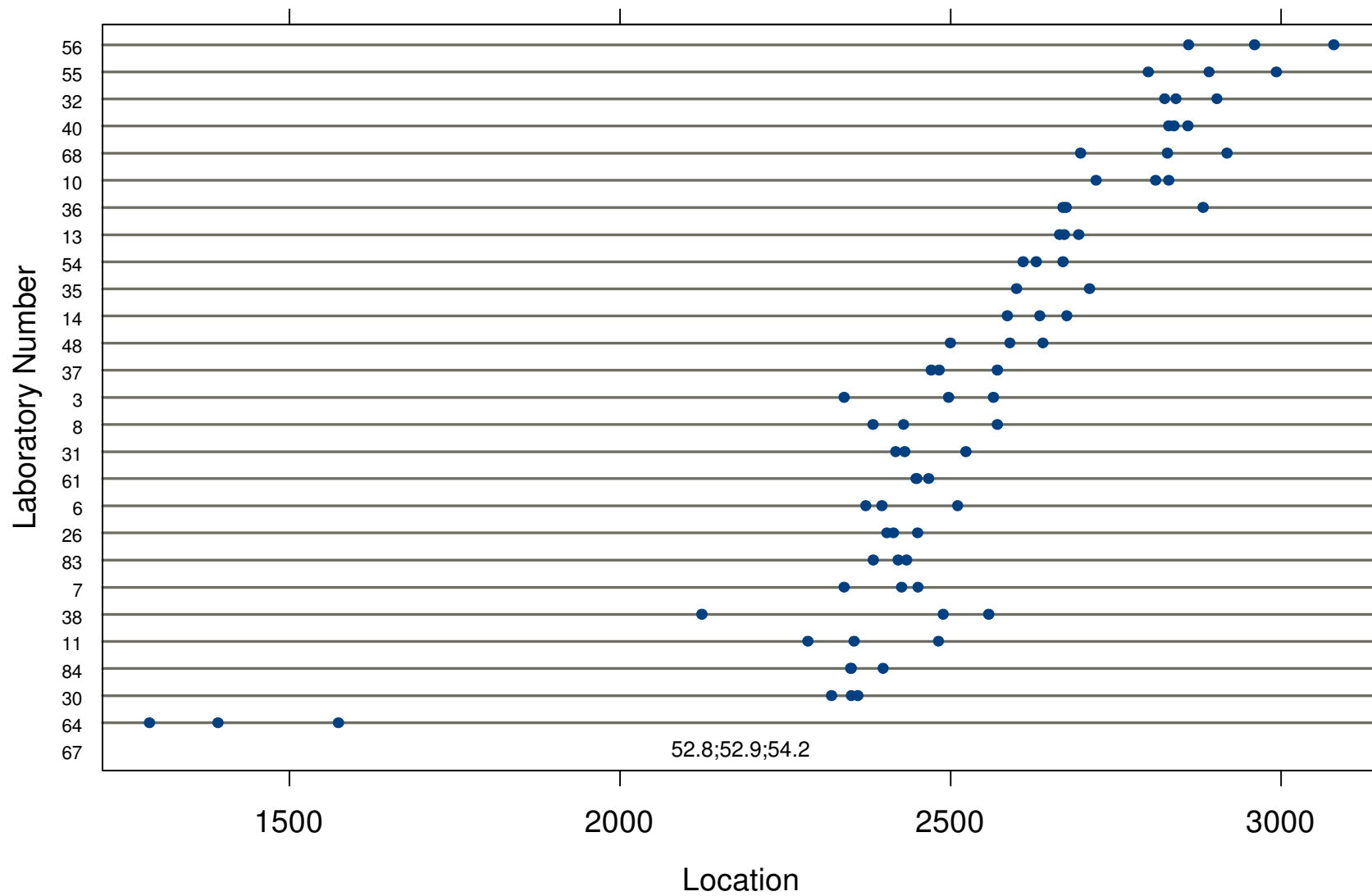
Group 9: Acid oxalate extractable Fe and
Al (SA13)

Reactive Al and reactive Fe

Reactive Aluminium

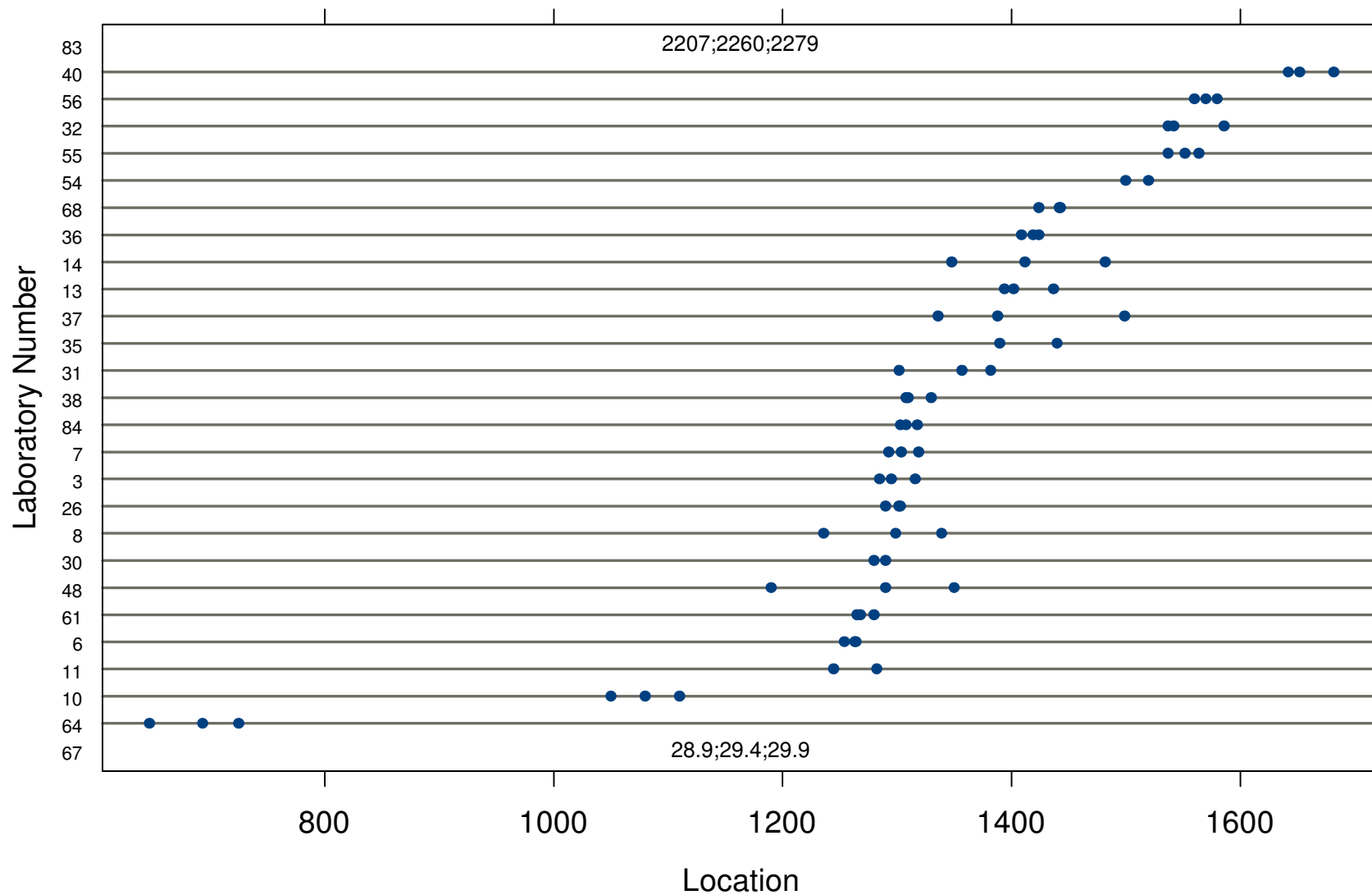
Dot plot sample A

9 - Reactive Al - Sample A



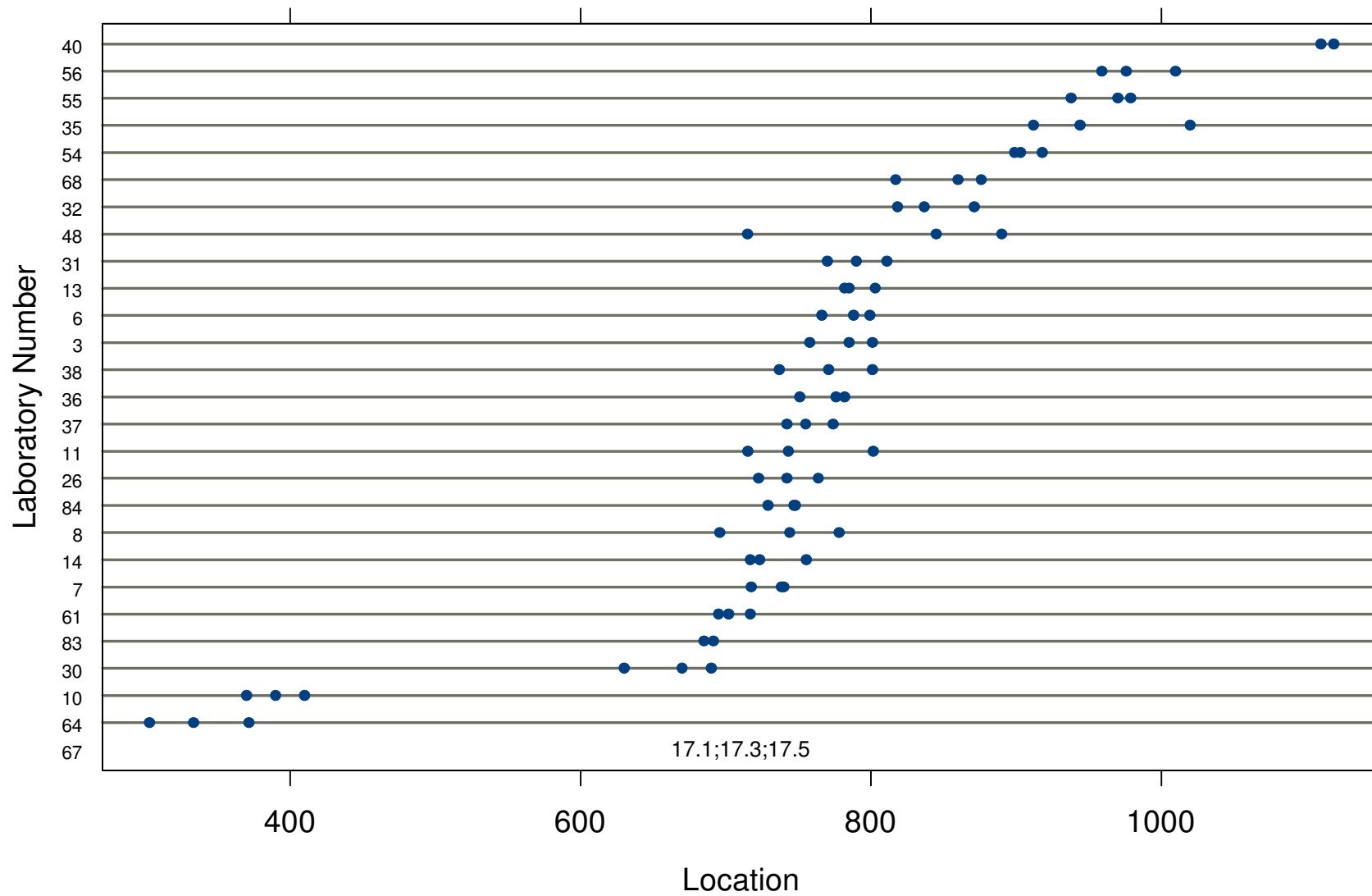
Dot plot sample B

9 - Reactive Al - Sample B



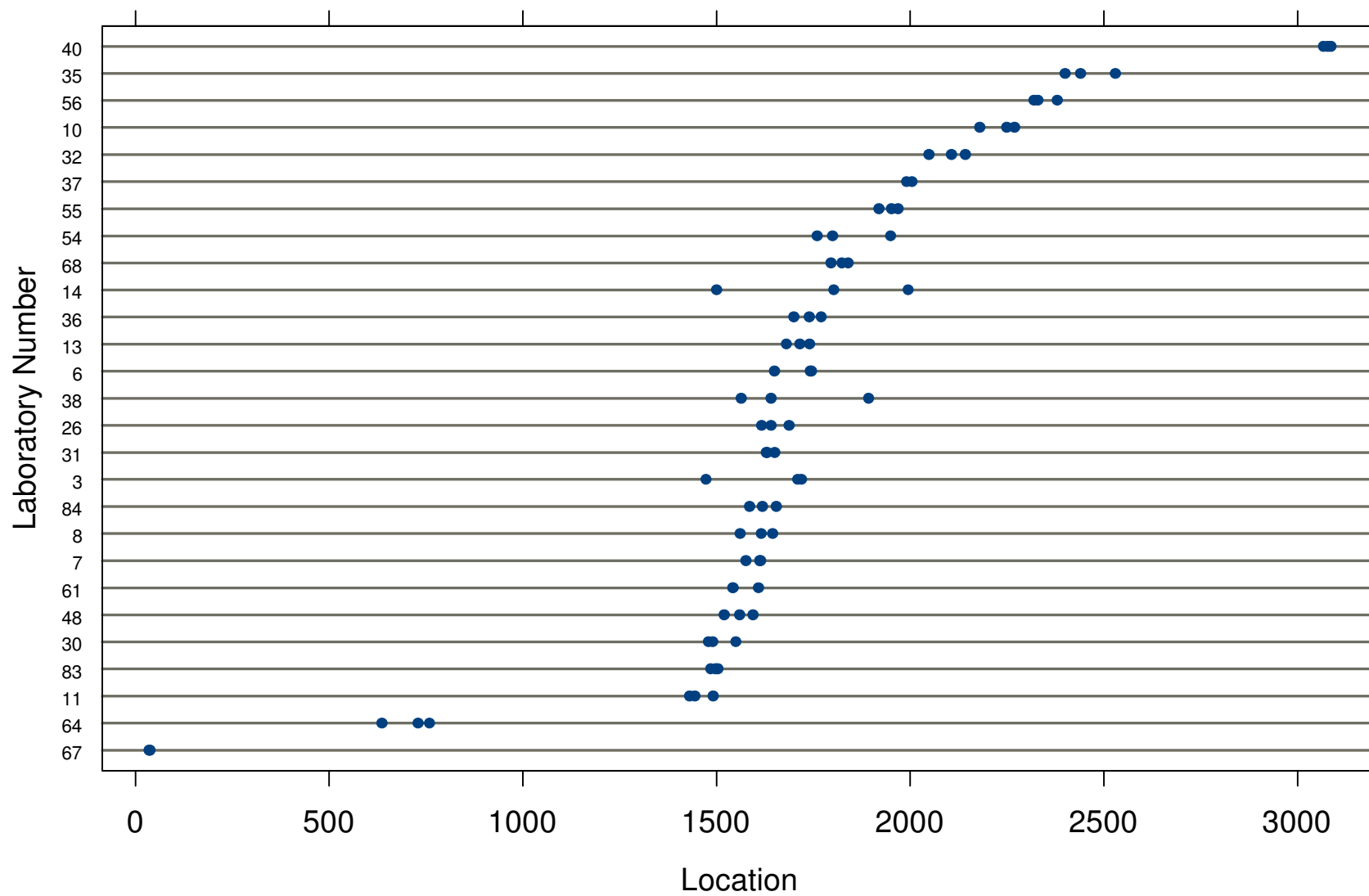
Dot plot sample C

9 - Reactive Al - Sample C



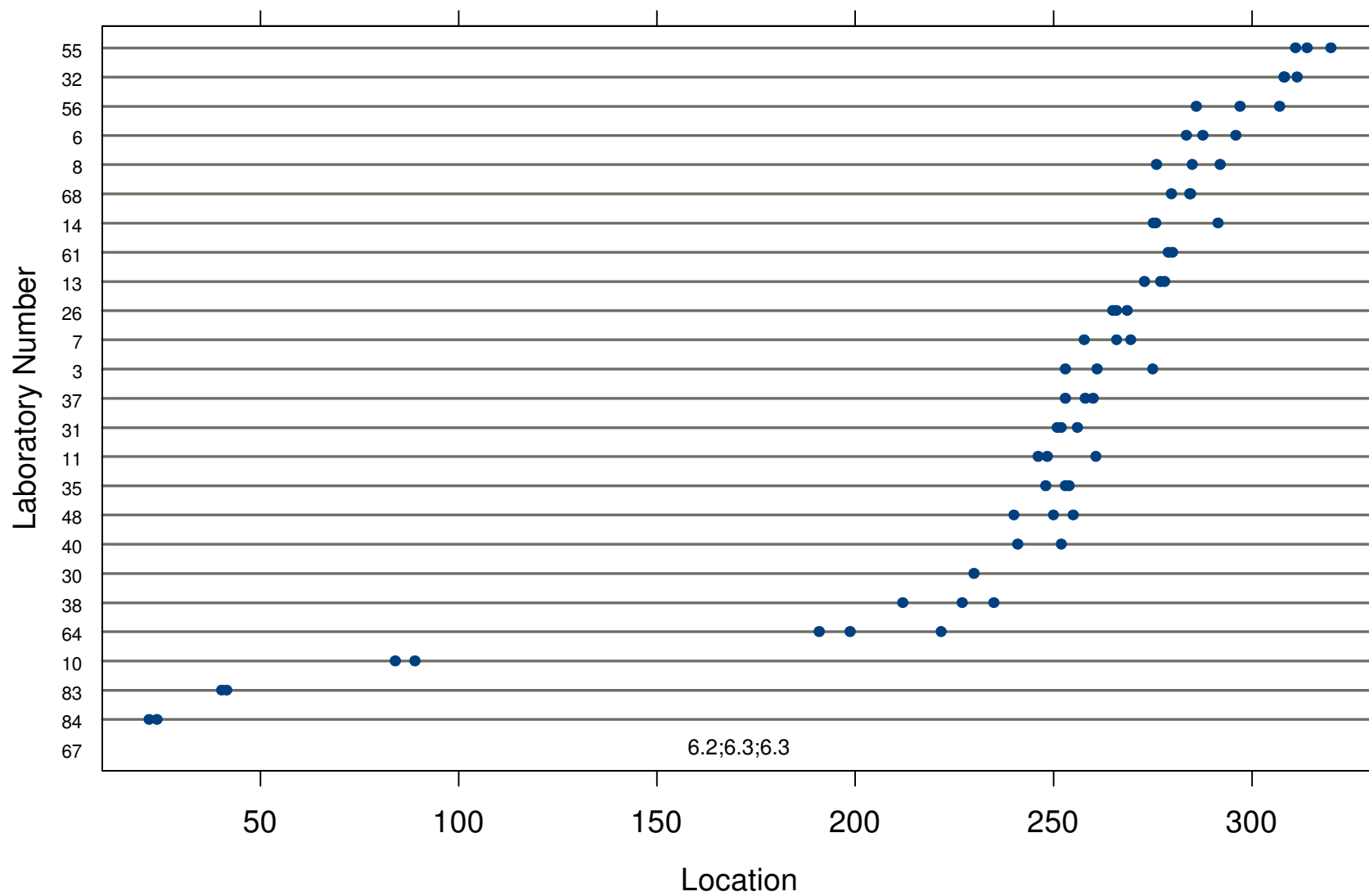
Dot plot sample D

9 - Reactive Al - Sample D

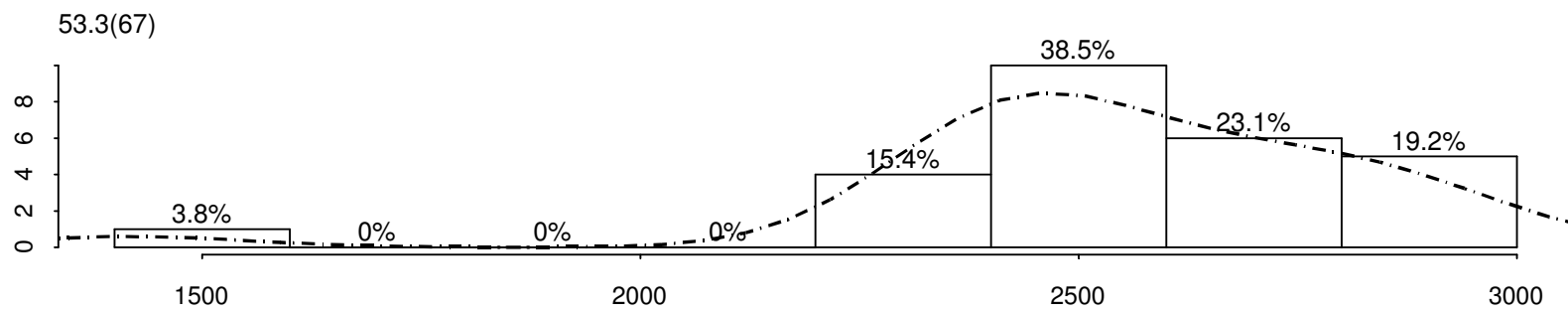


Dot plot sample E

9 - Reactive Al - Sample E

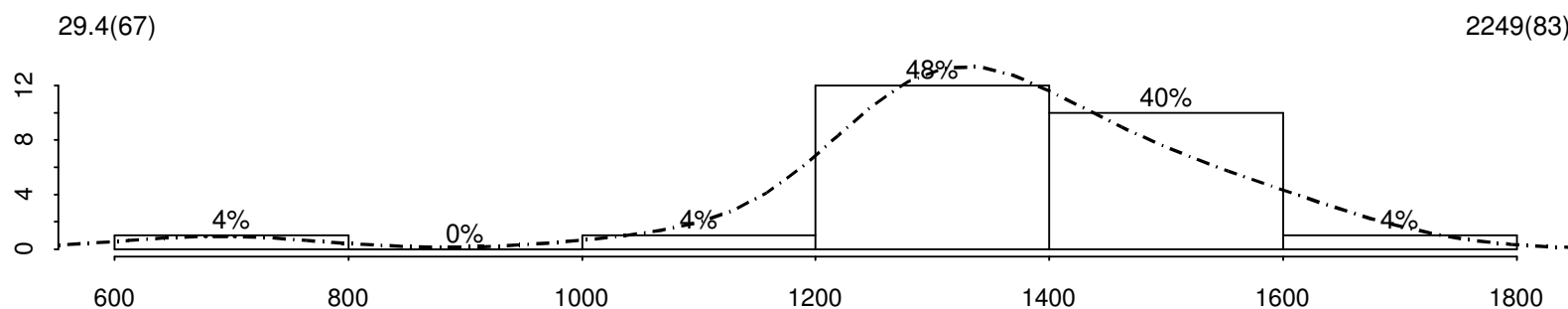


Histogram of the means of samples A, B and C



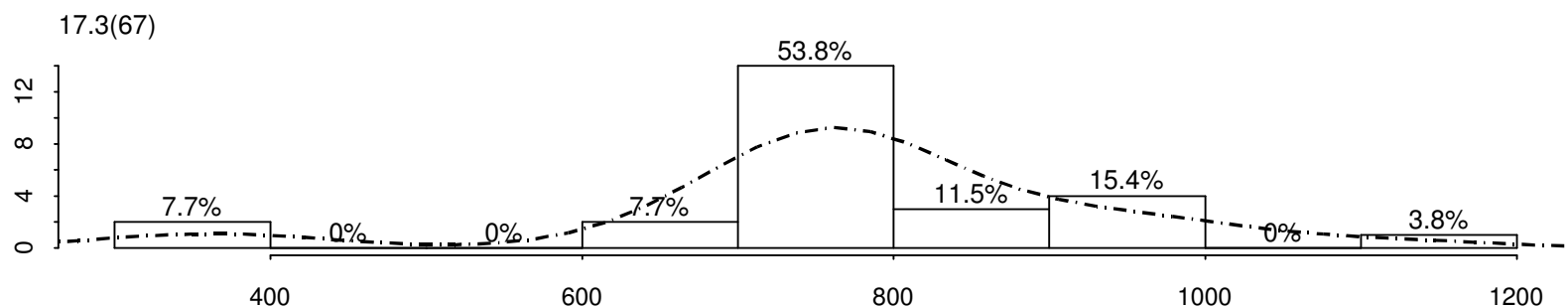
N: 27 NA: 0 Z: 0 E: 1.0 U: 26
a: 2445 m: 2467 s: 559.2

9 - Reactive Al - Sample A - mean



N: 27 NA: 0 Z: 0 E: 1.1 U: 25
a: 1329 m: 1316 s: 360.2

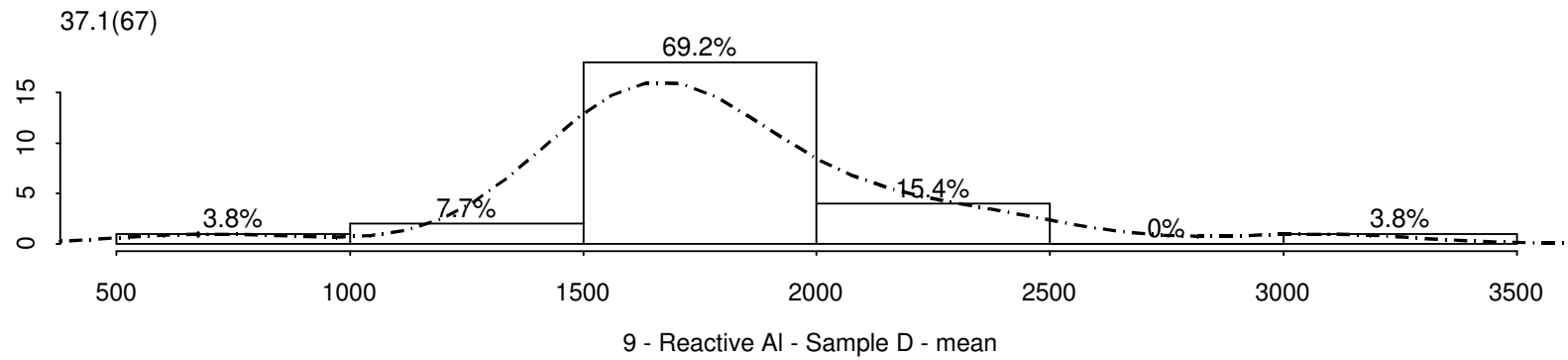
9 - Reactive Al - Sample B - mean



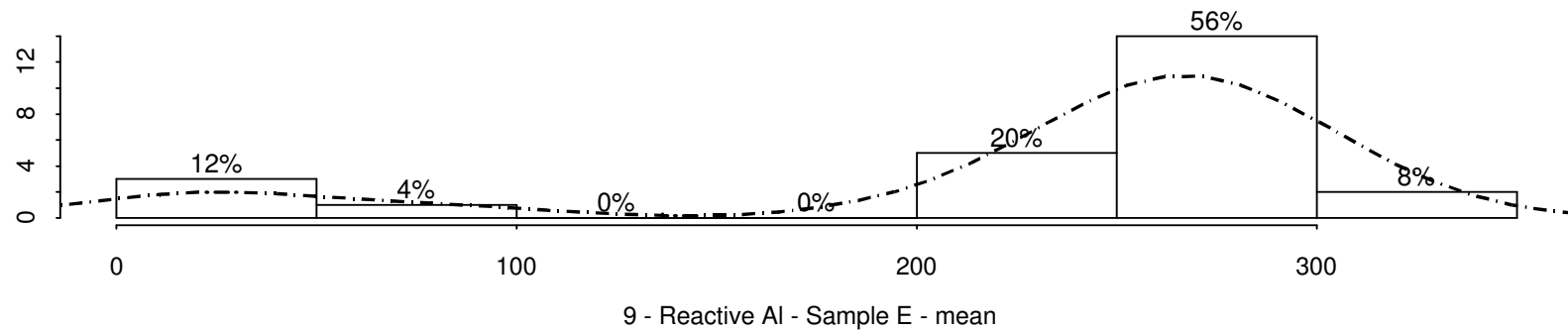
N: 27 NA: 0 Z: 0 E: 1.0 U: 26
a: 745 m: 769.7 s: 213

9 - Reactive Al - Sample C - mean

Histogram of the means of samples D and E

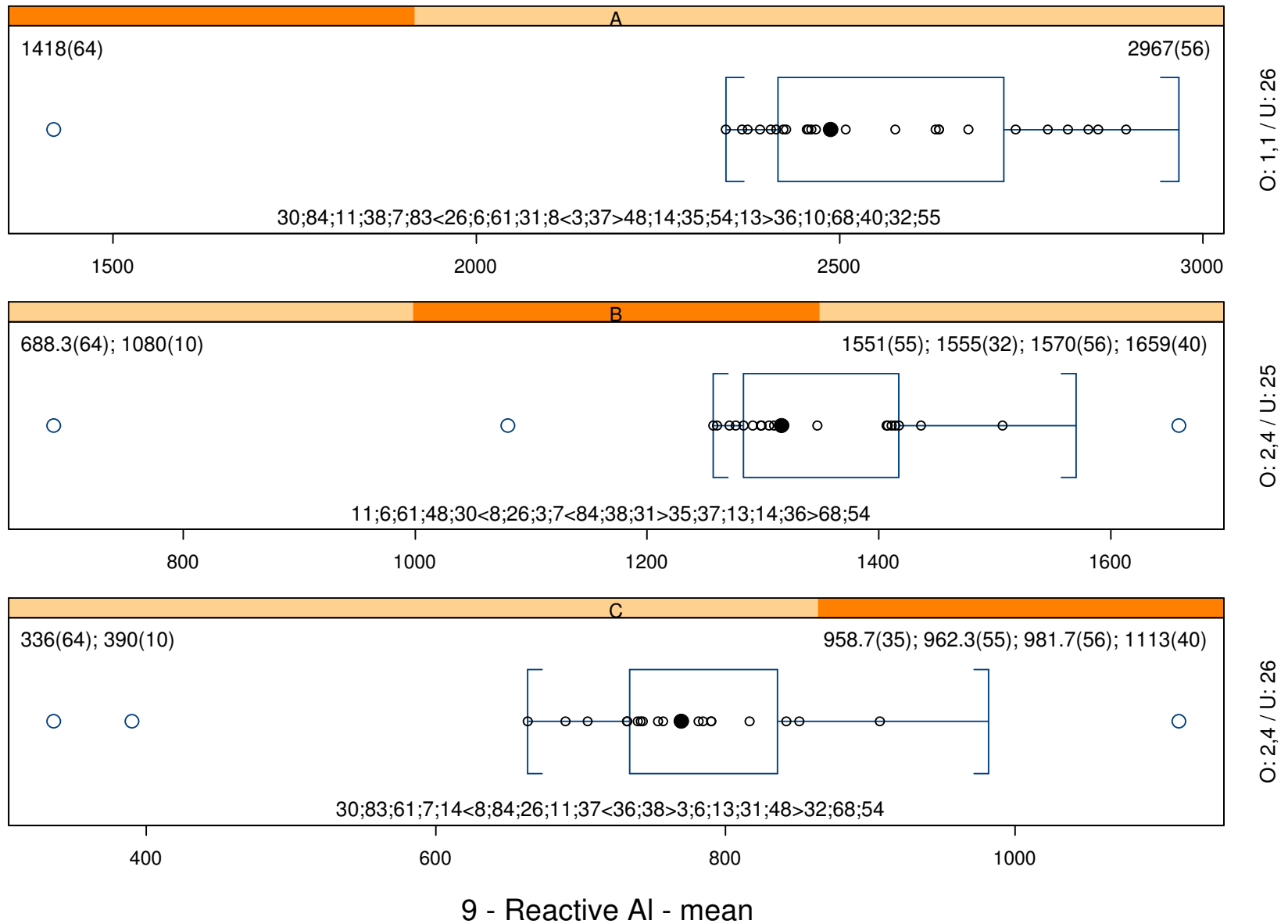


N: 27 NA: 0 Z: 0 E: 1.0 U: 26
a: 1723 m: 1699 s: 535.7

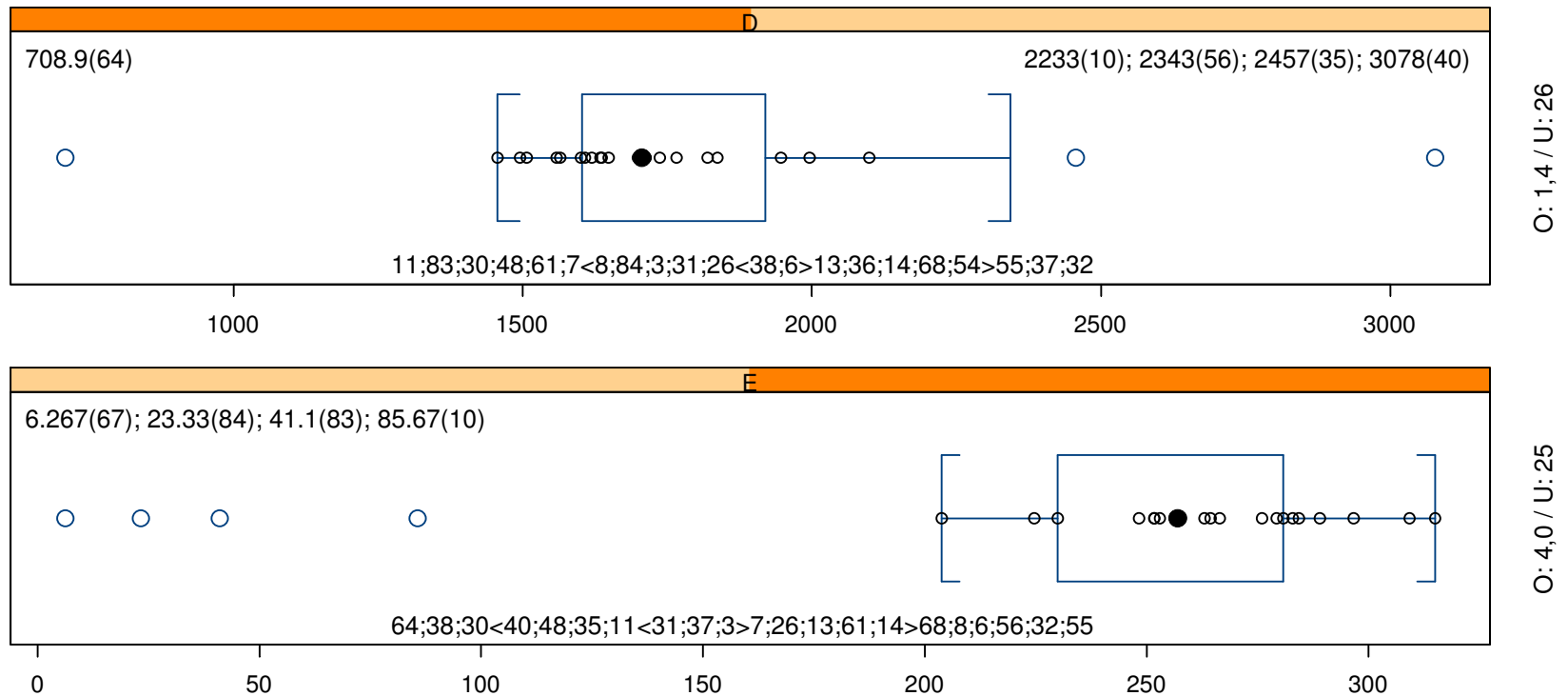


N: 25 NA: 0 Z: 0 E: 0 U: 25
a: 229.3 m: 257 s: 89.16

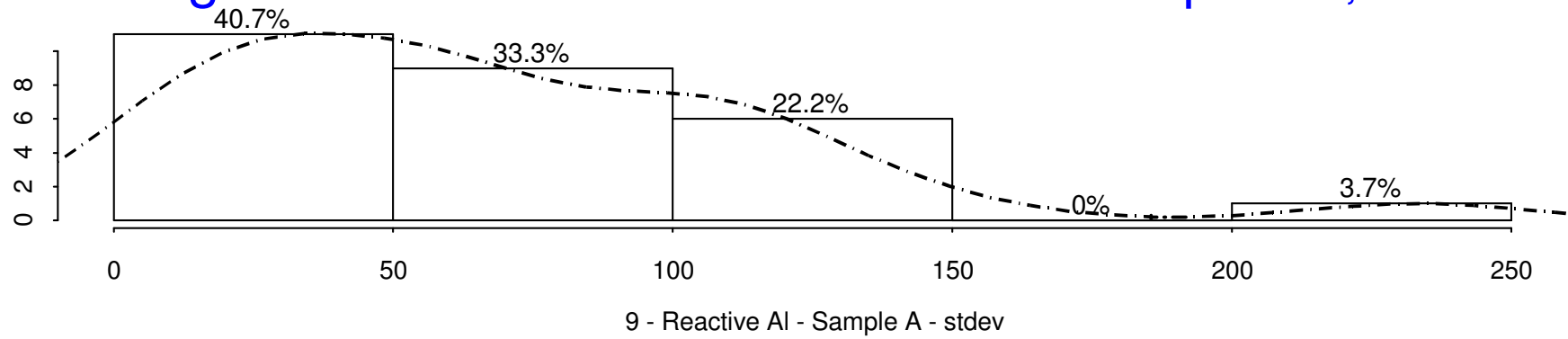
Box plot of the means of samples A, B and C



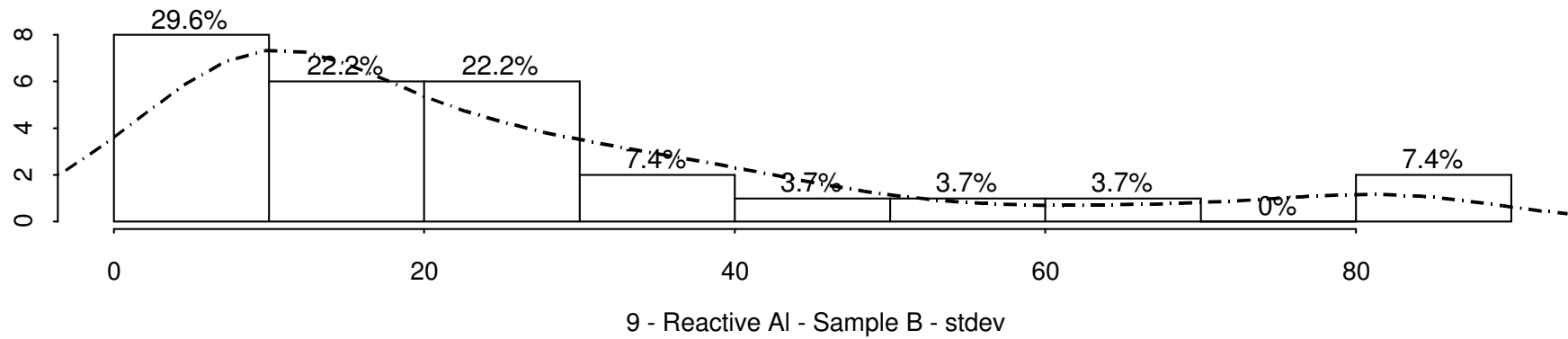
Box plot of the means of samples D and E



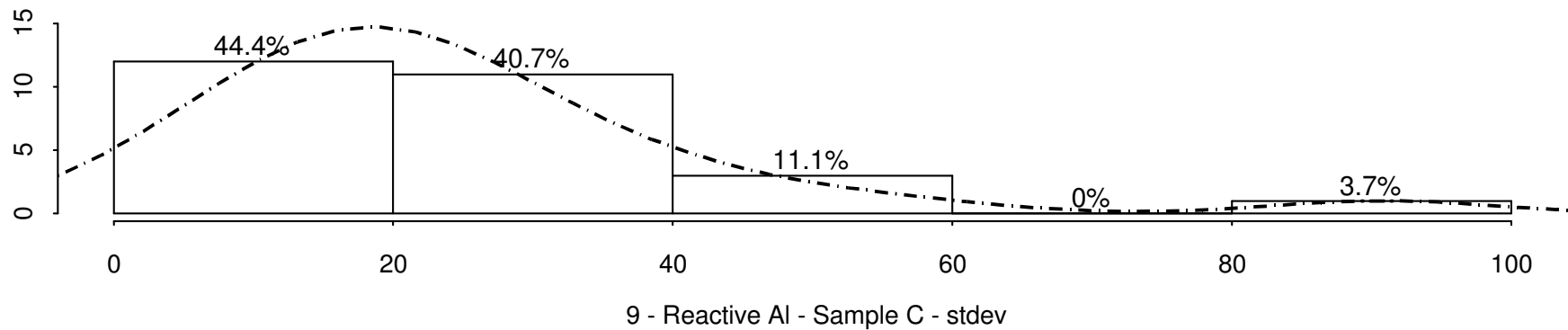
Histogram of the standard deviations of samples A, B and C



N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 67.7 m: 58.59 s: 51.41

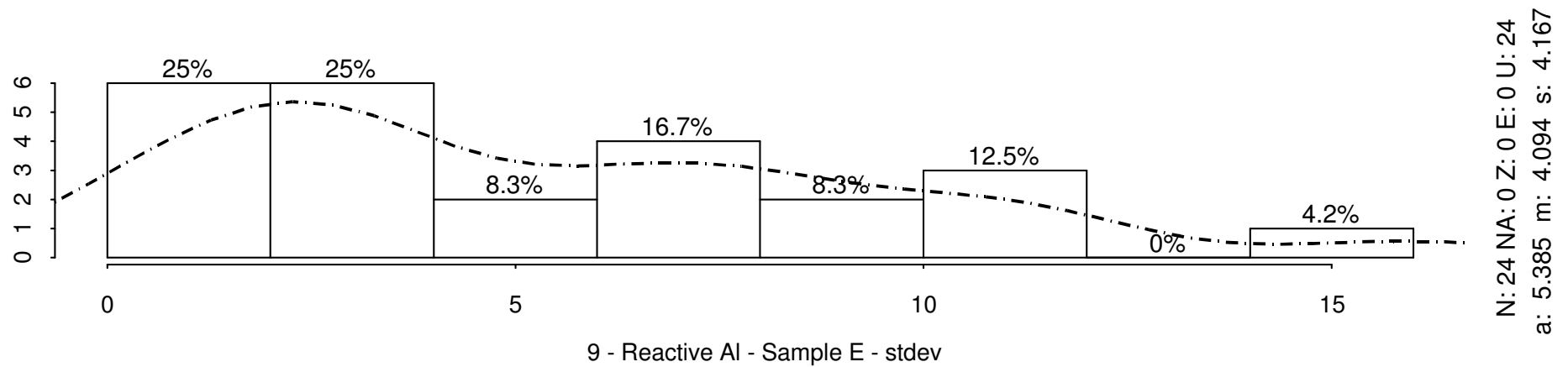
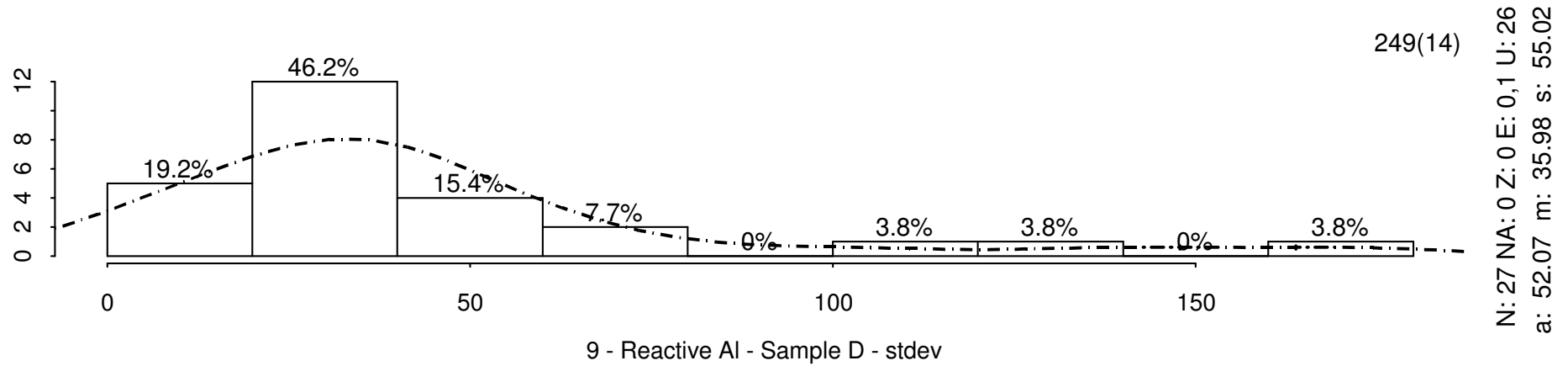


N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 25.2 m: 15.82 s: 22.68

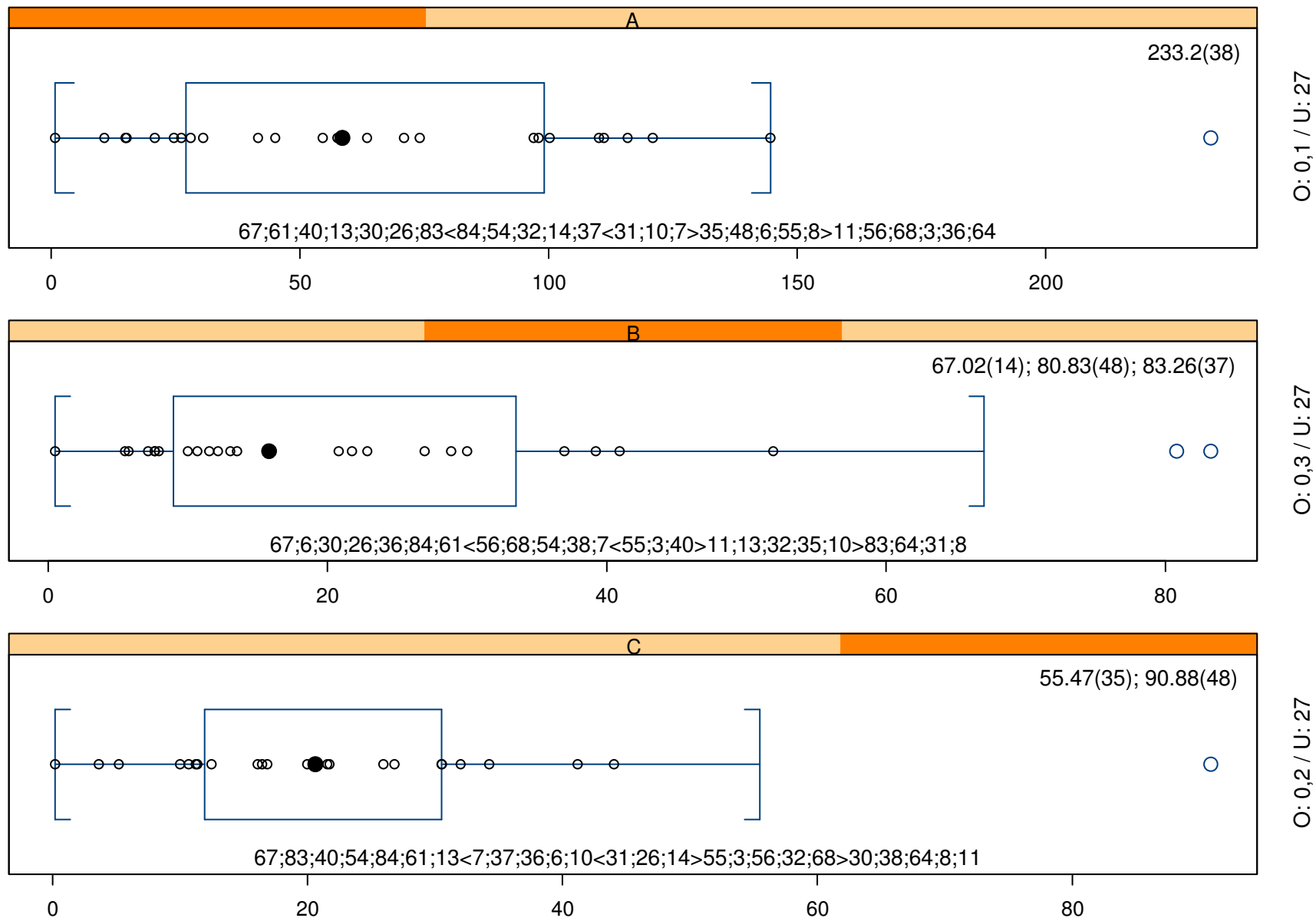


N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 24.11 m: 20.61 s: 18.42

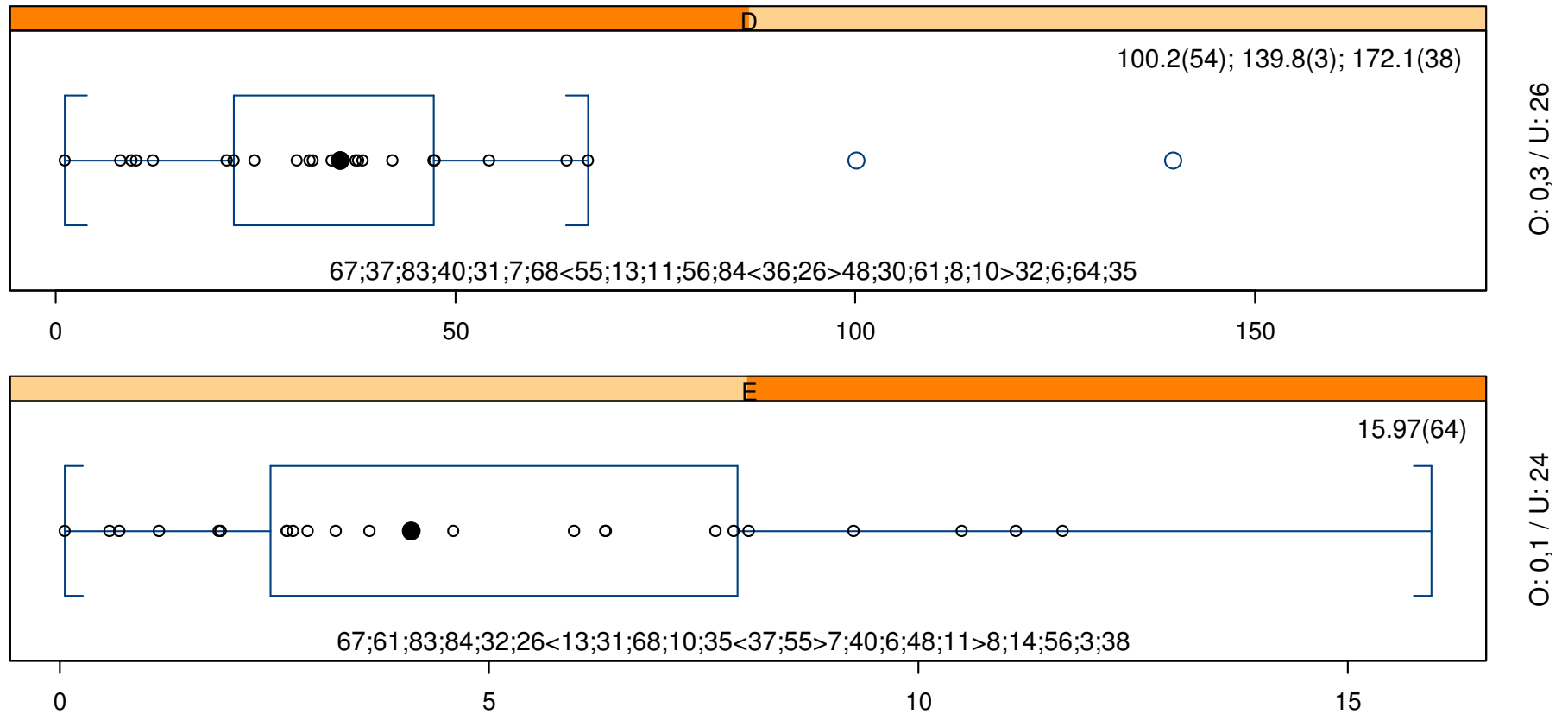
Histogram of the standard deviations of samples D and E



Box plot of the standard deviations of samples A, B and C



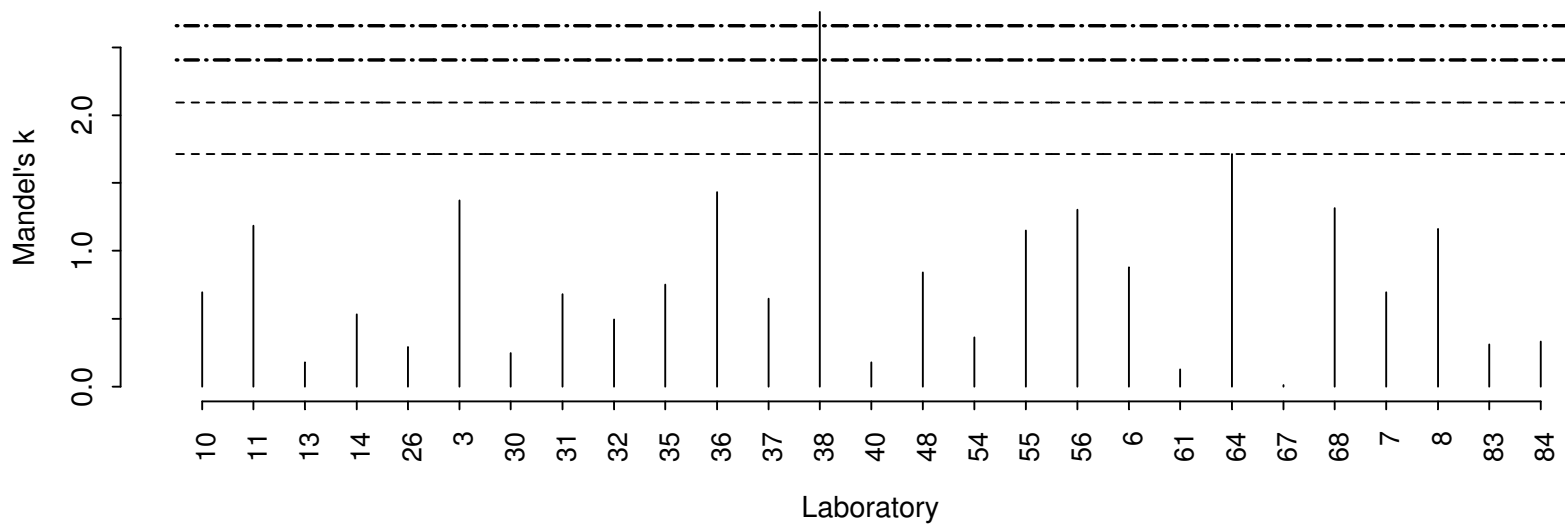
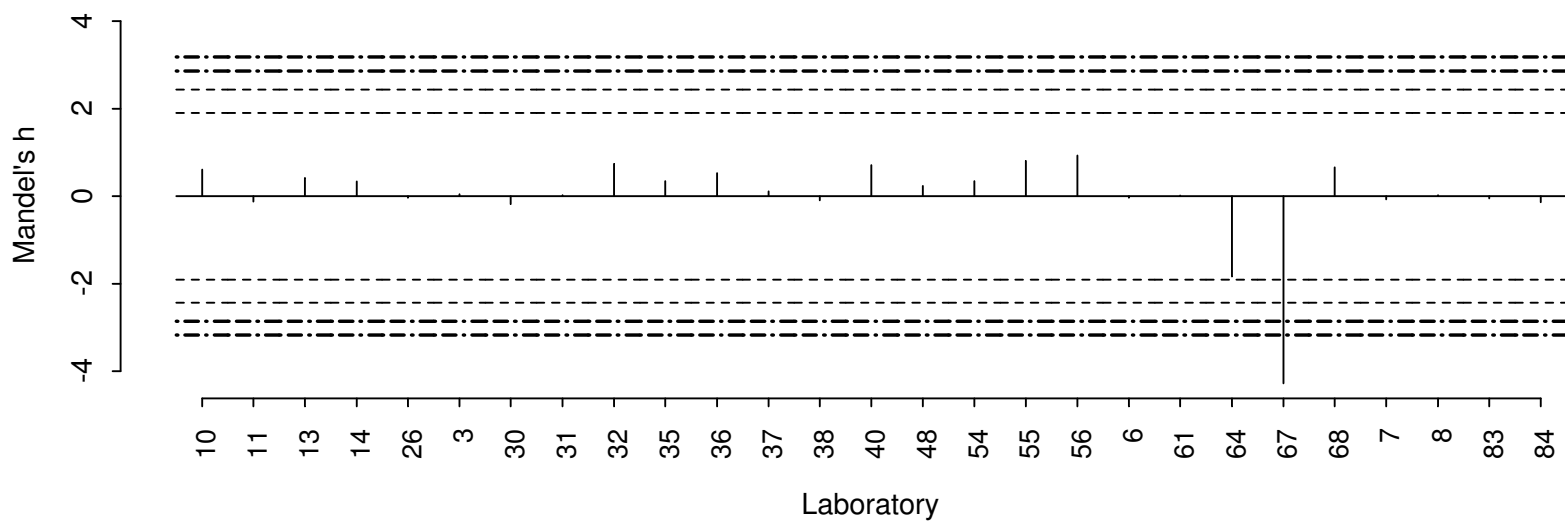
Box plot of the standard deviations of samples D and E



Mandel's h and k plots of sample A

9 - Reactive Al - sample A

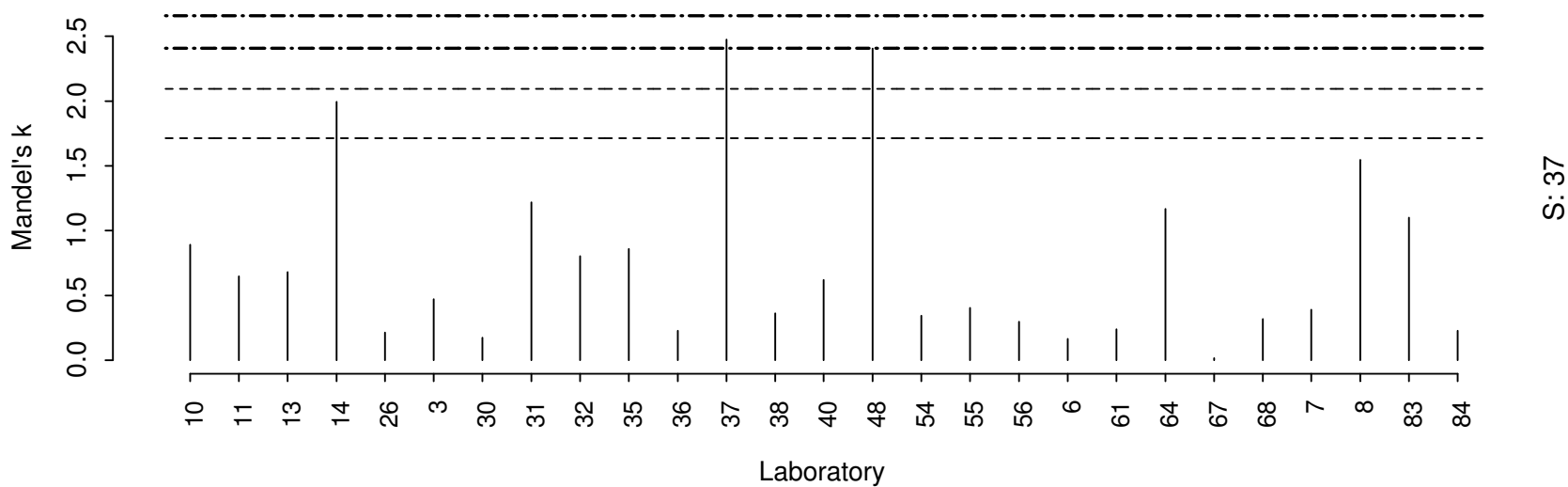
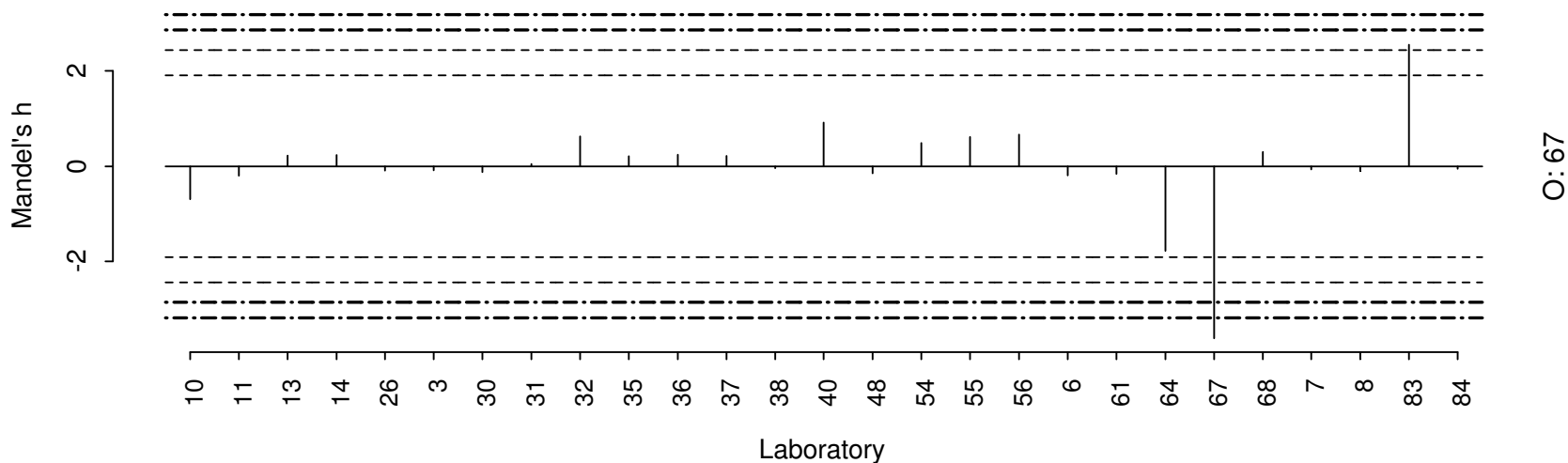
Step:1; Nlab:27; Mgen:2445; Fval:131.6; Pval:0; sRep:84.43; sLab:557; sRpr:563.4; CV:23.04



Mandel's h and k plots of sample B

9 - Reactive Al - sample B

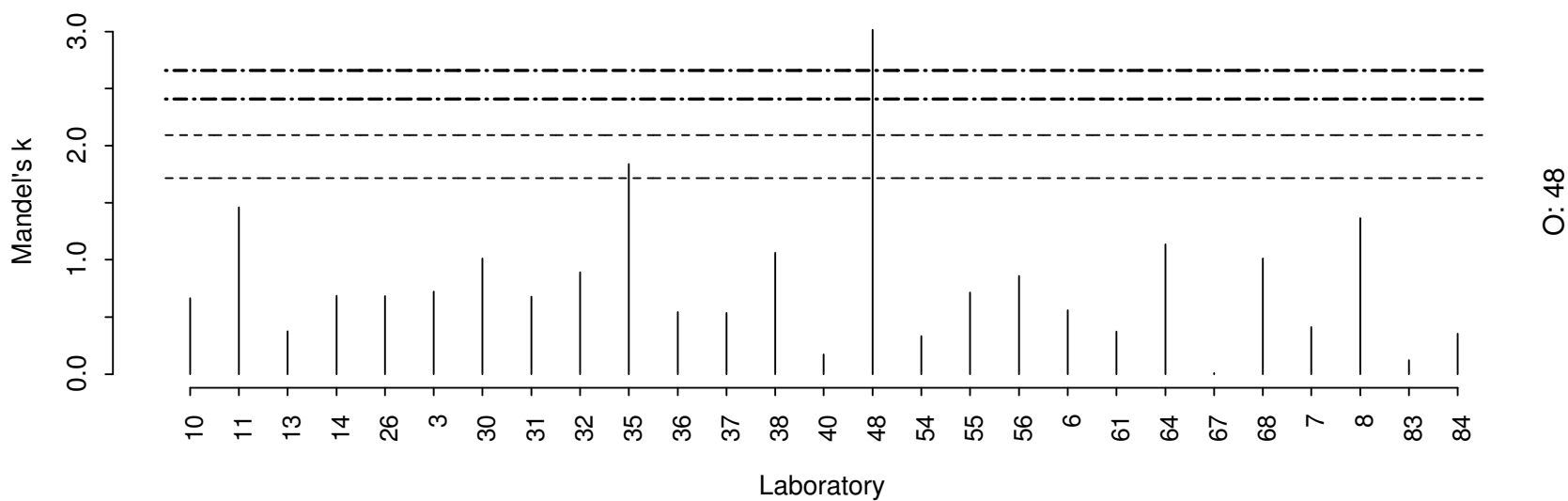
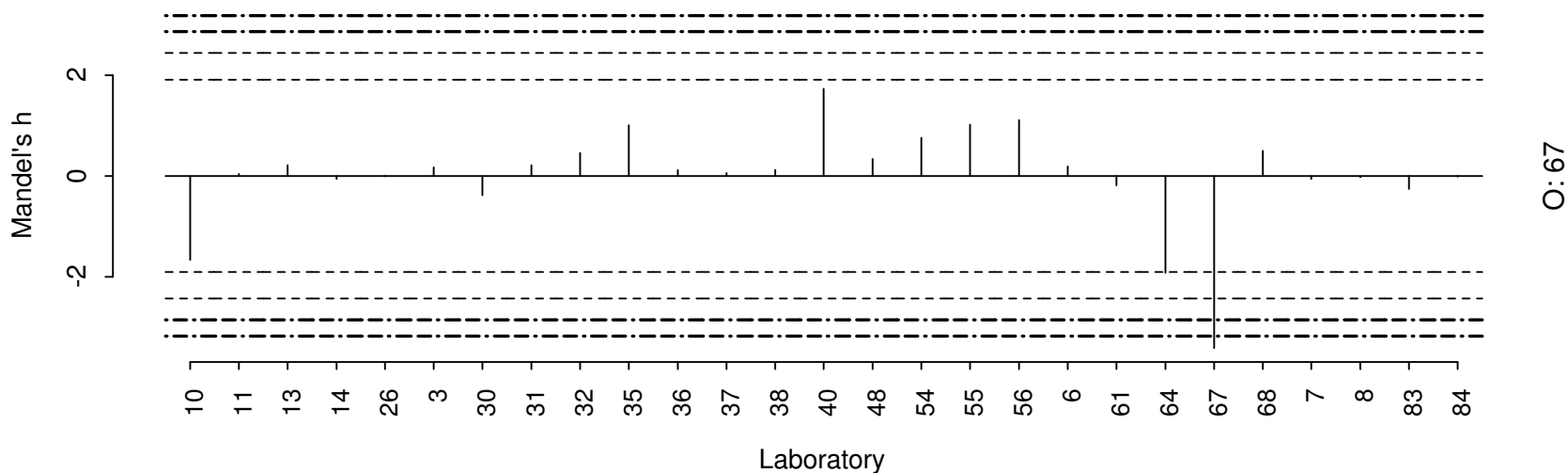
Step:1; Nlab:27; Mgen:1329; Fval:344.4; Pval:0; sRep:33.62; sLab:359.7; sRpr:361.3; CV:27.18



Mandel's h and k plots of sample C

9 - Reactive Al - sample C

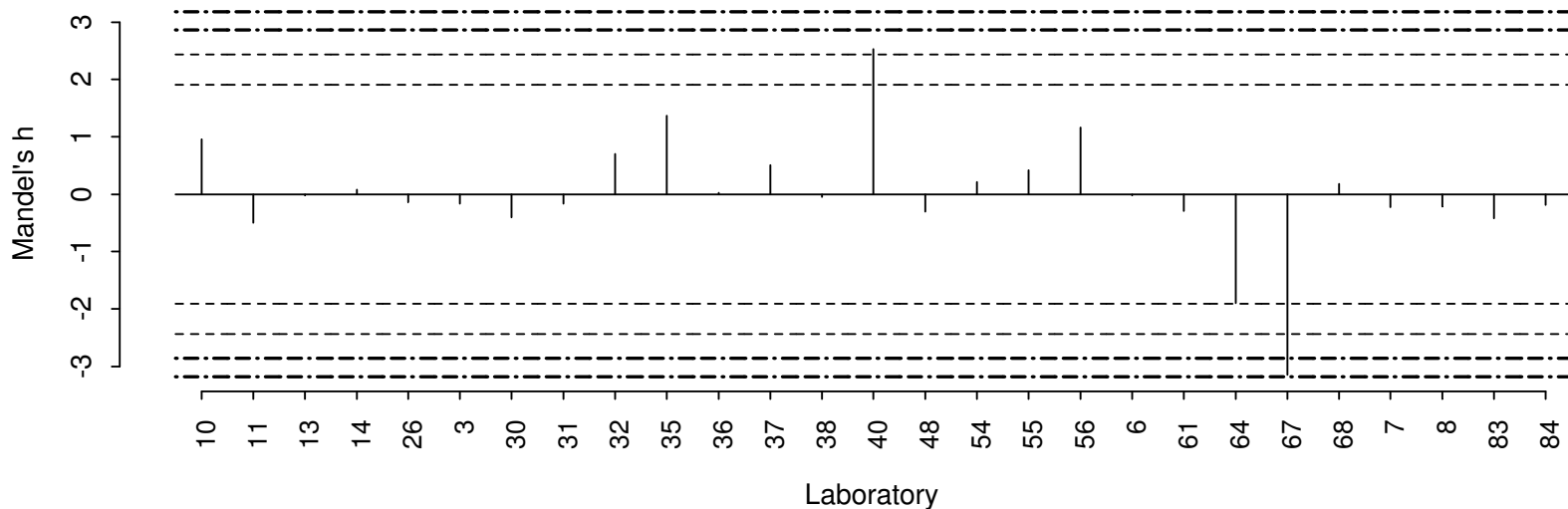
Step:1; Nlab:27; Mgen:745; Fval:149.8; Pval:0; sRep:30.14; sLab:212.3; sRpr:214.4; CV:28.78



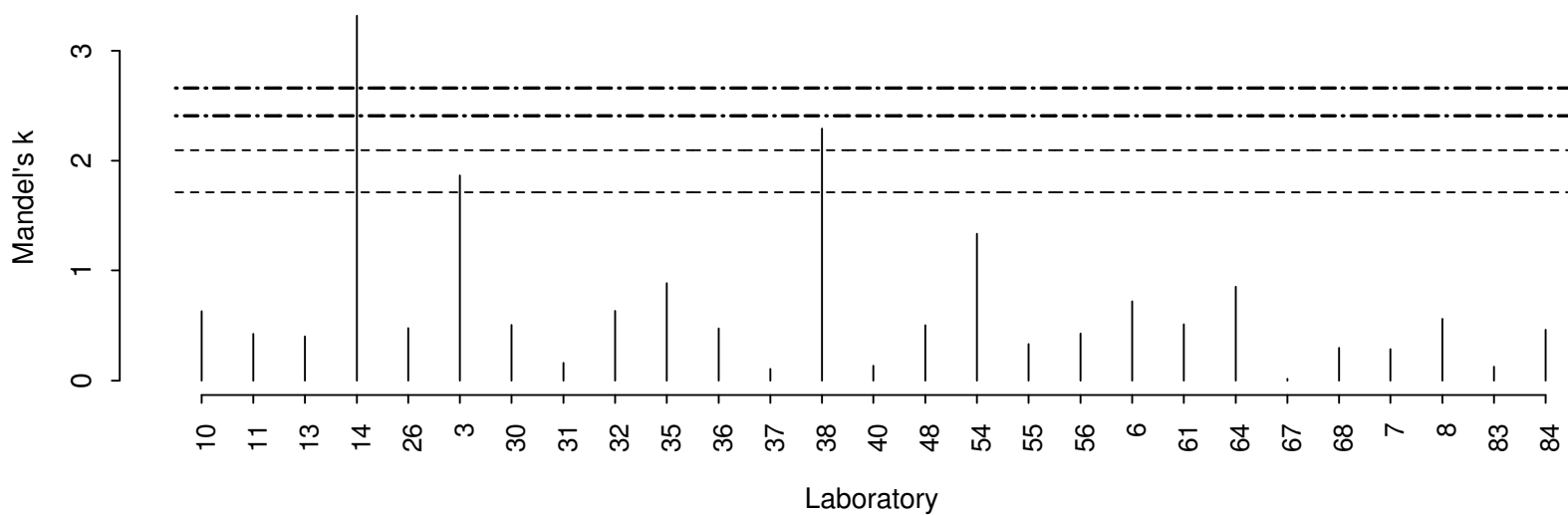
Mandel's h and k plots of sample D

9 - Reactive AI - sample D

Step:1; Nlab:27; Mgen:1723; Fval:153; Pval:0; sRep:75.01; sLab:534; sRpr:539.2; CV:31.3



S: 67

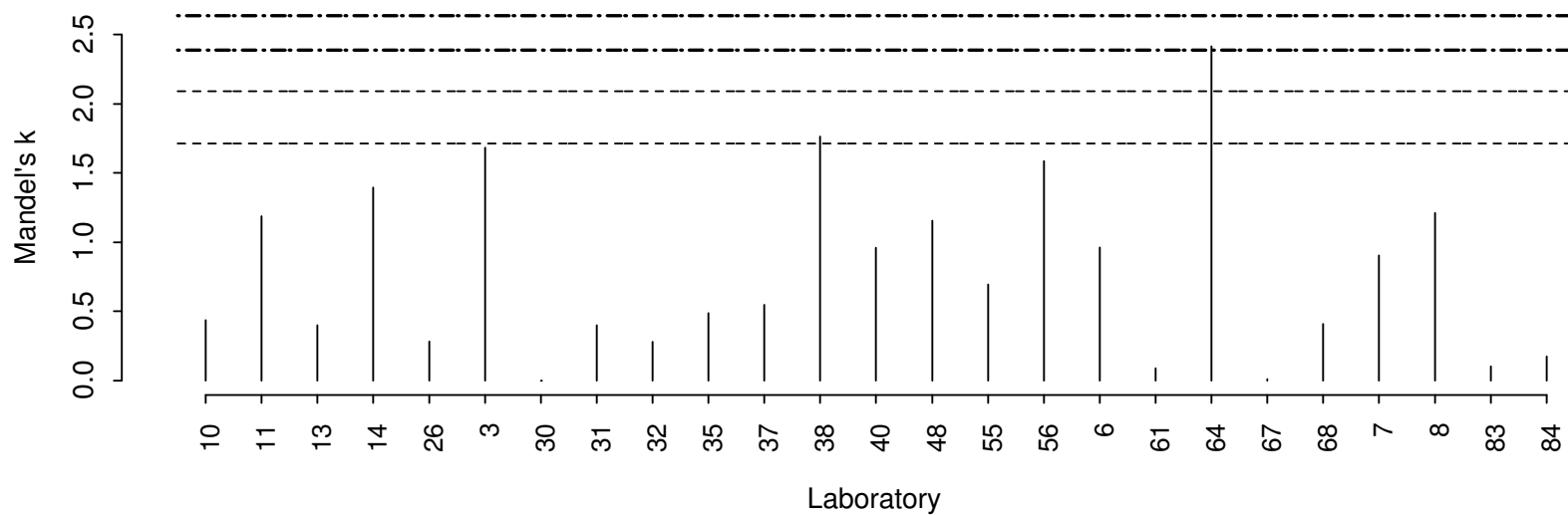
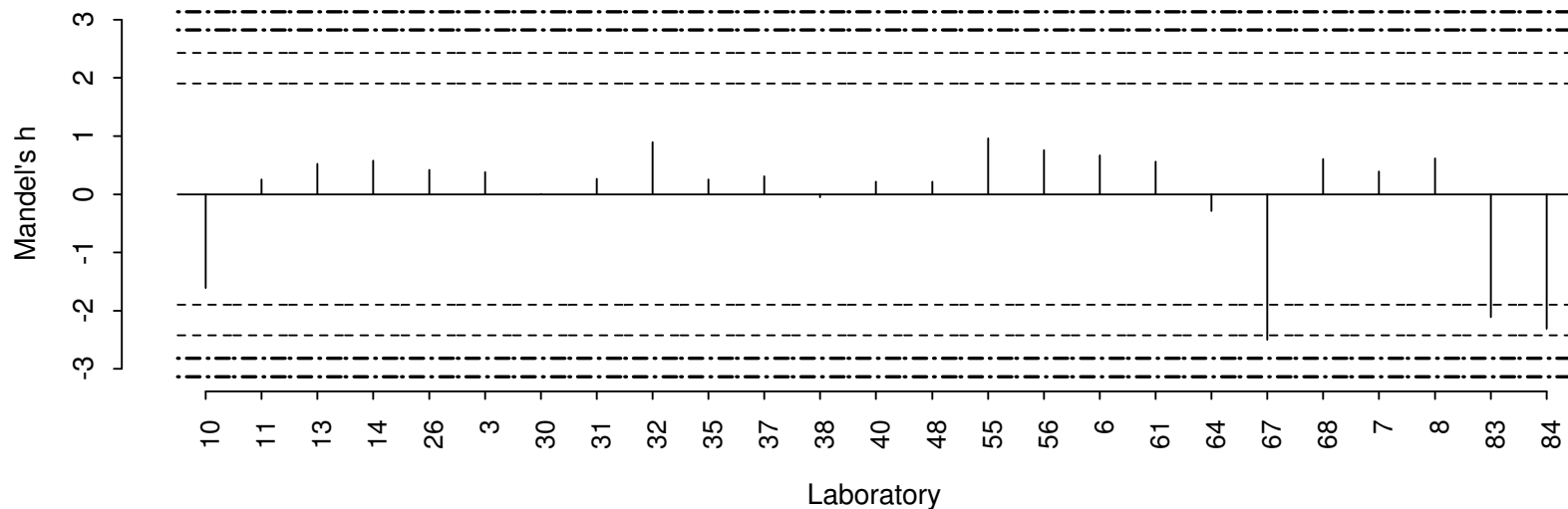


O: 14

Mandel's h and k plots of sample E

9 - Reactive Al - sample E

Step:1; Nlab:25; Mgen:229.3; Fval:544.3; Pval:0; sRep:6.619; sLab:89.08; sRpr:89.32; CV:38.96

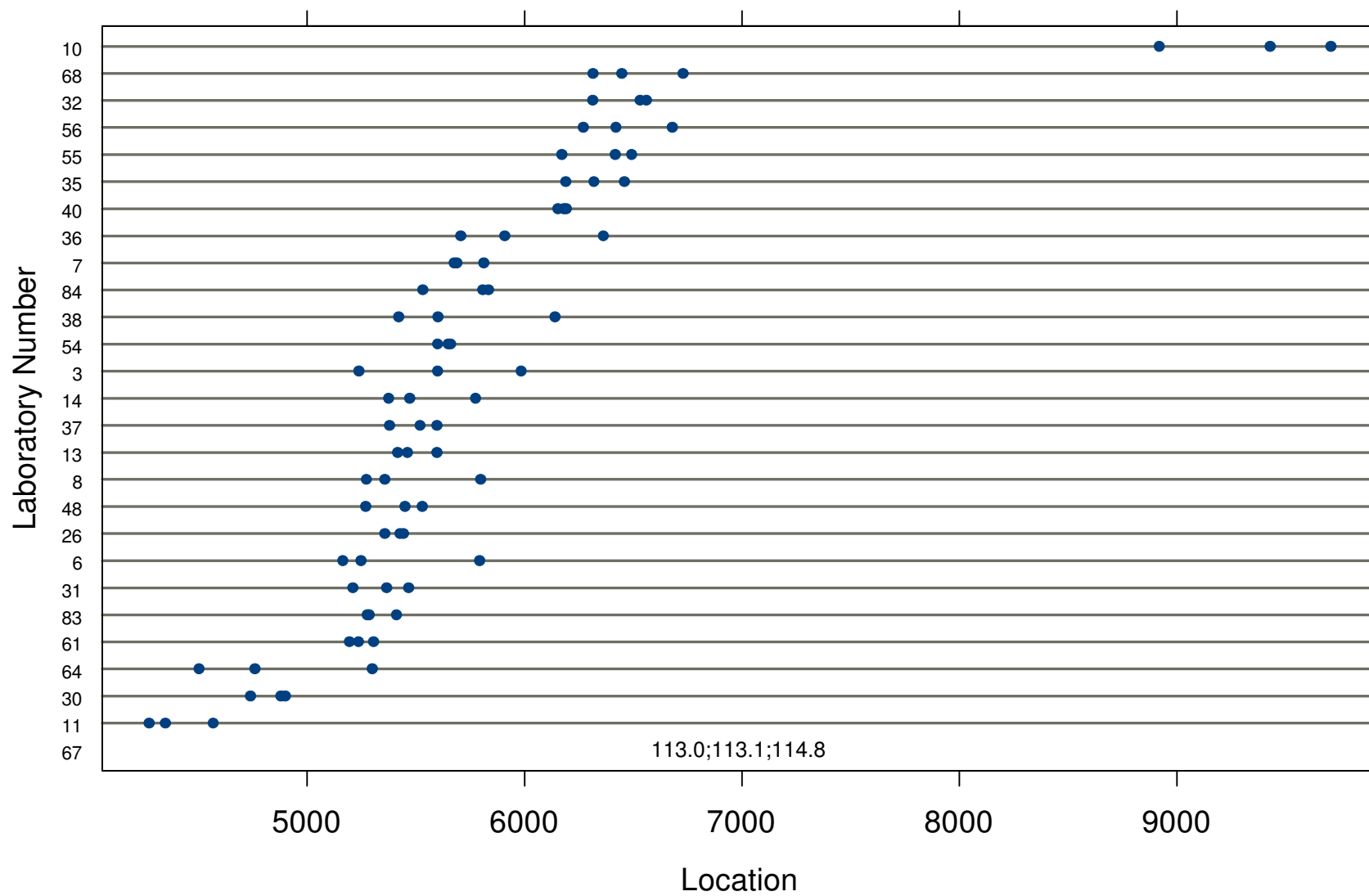


S: 64

Reactive Fe

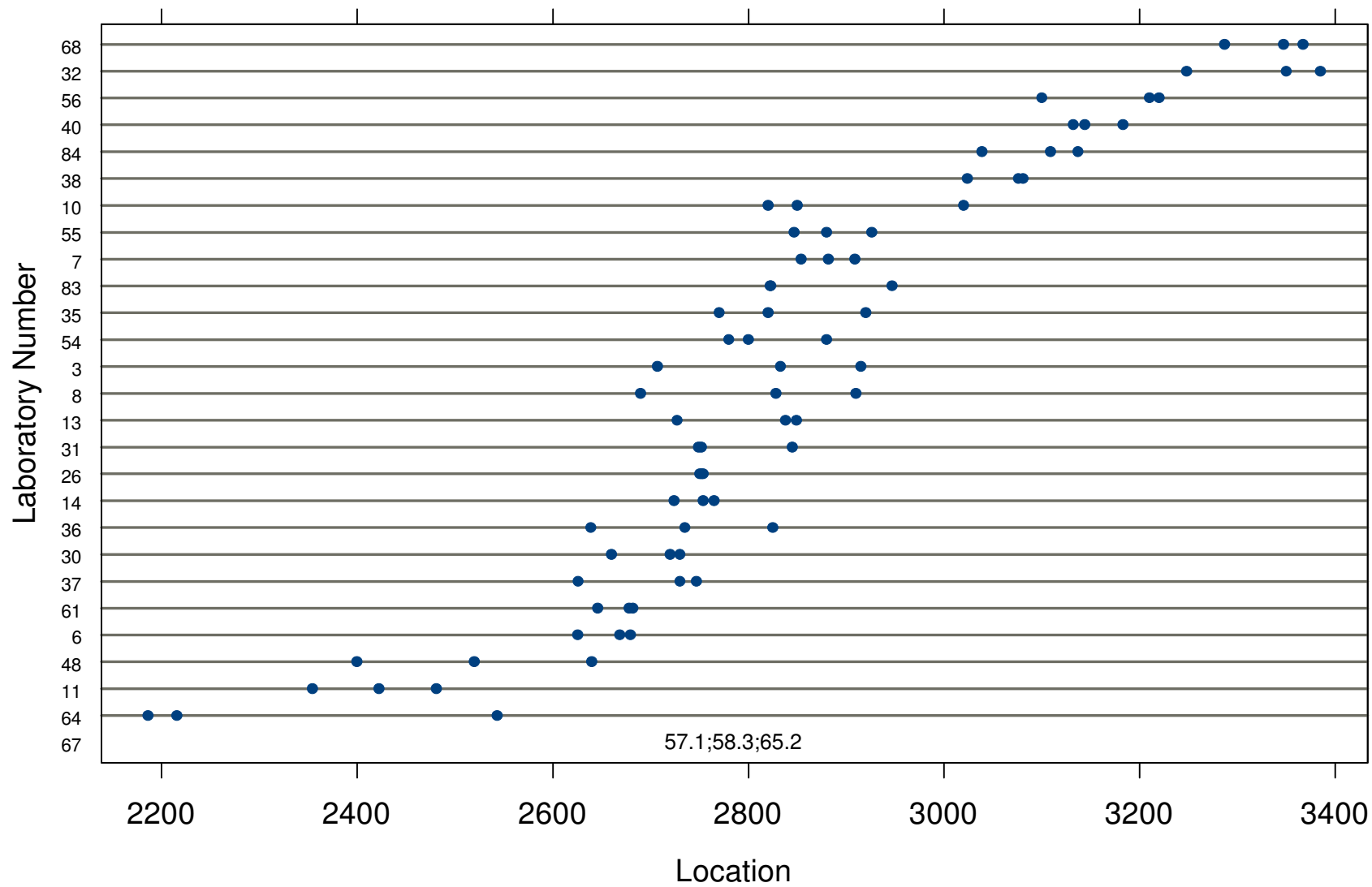
Dot plot sample A

9 - Reactive Fe - Sample A



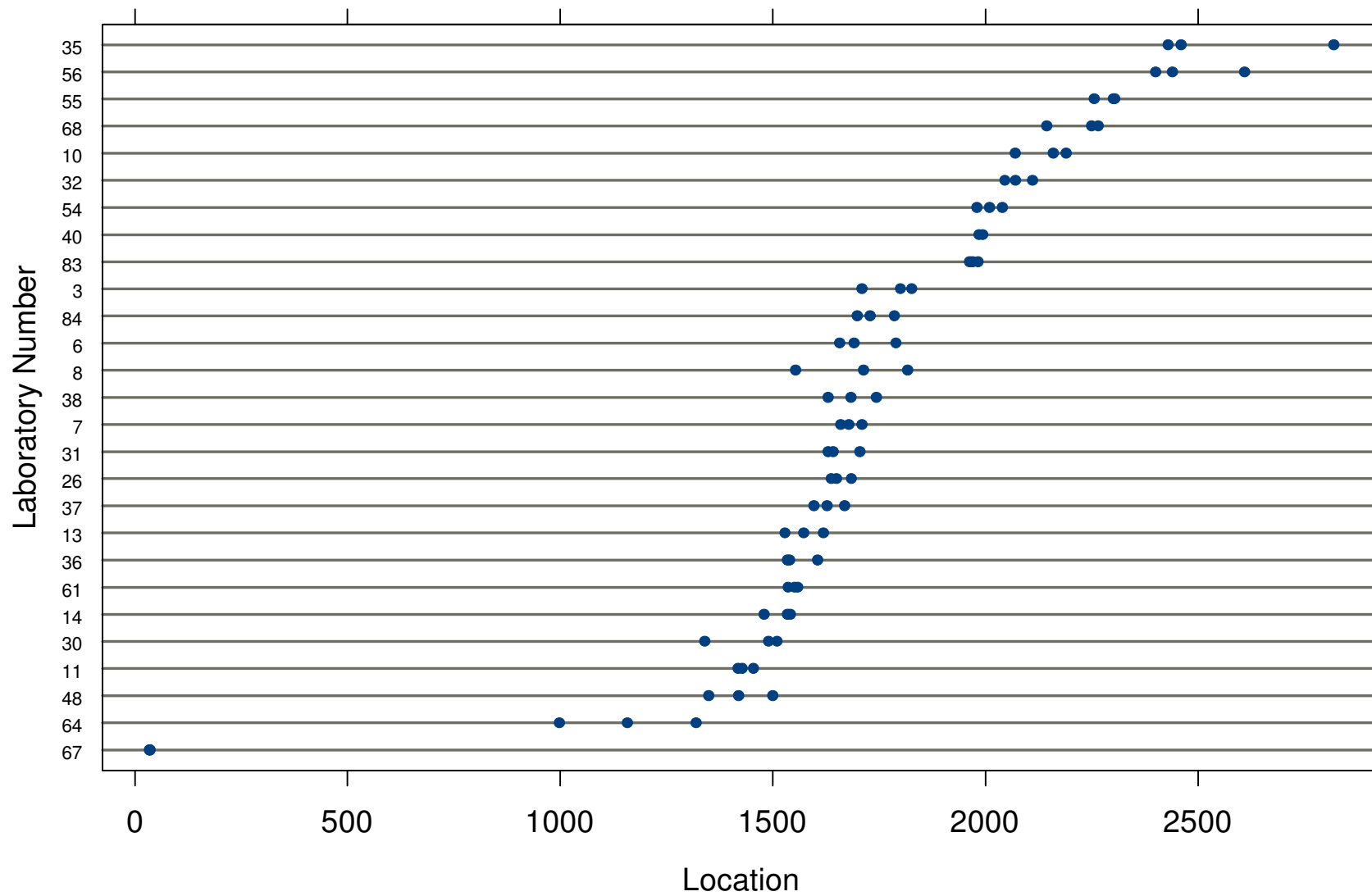
Dot plot sample B

9 - Reactive Fe - Sample B



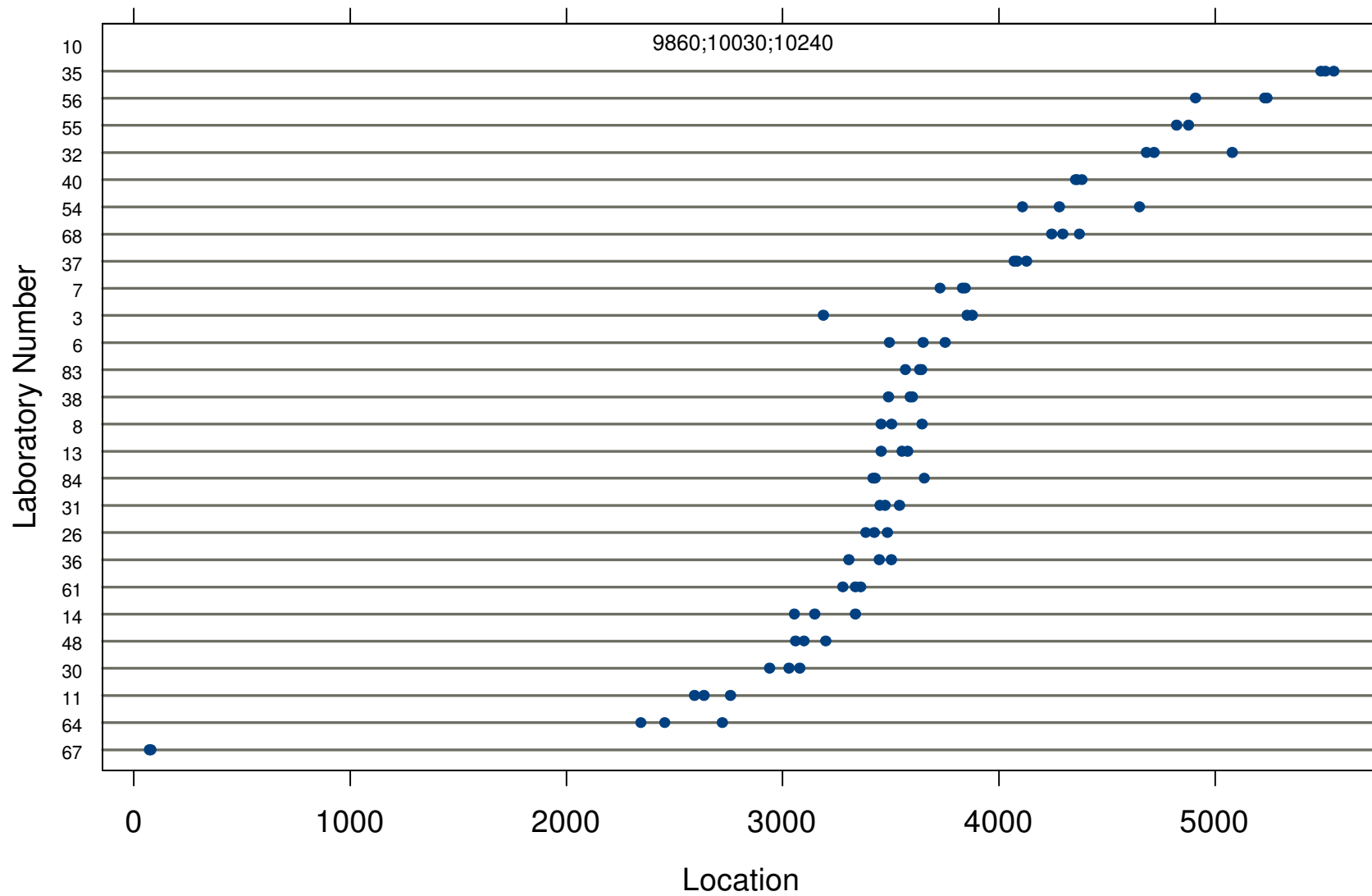
Dot plot sample C

9 - Reactive Fe - Sample C



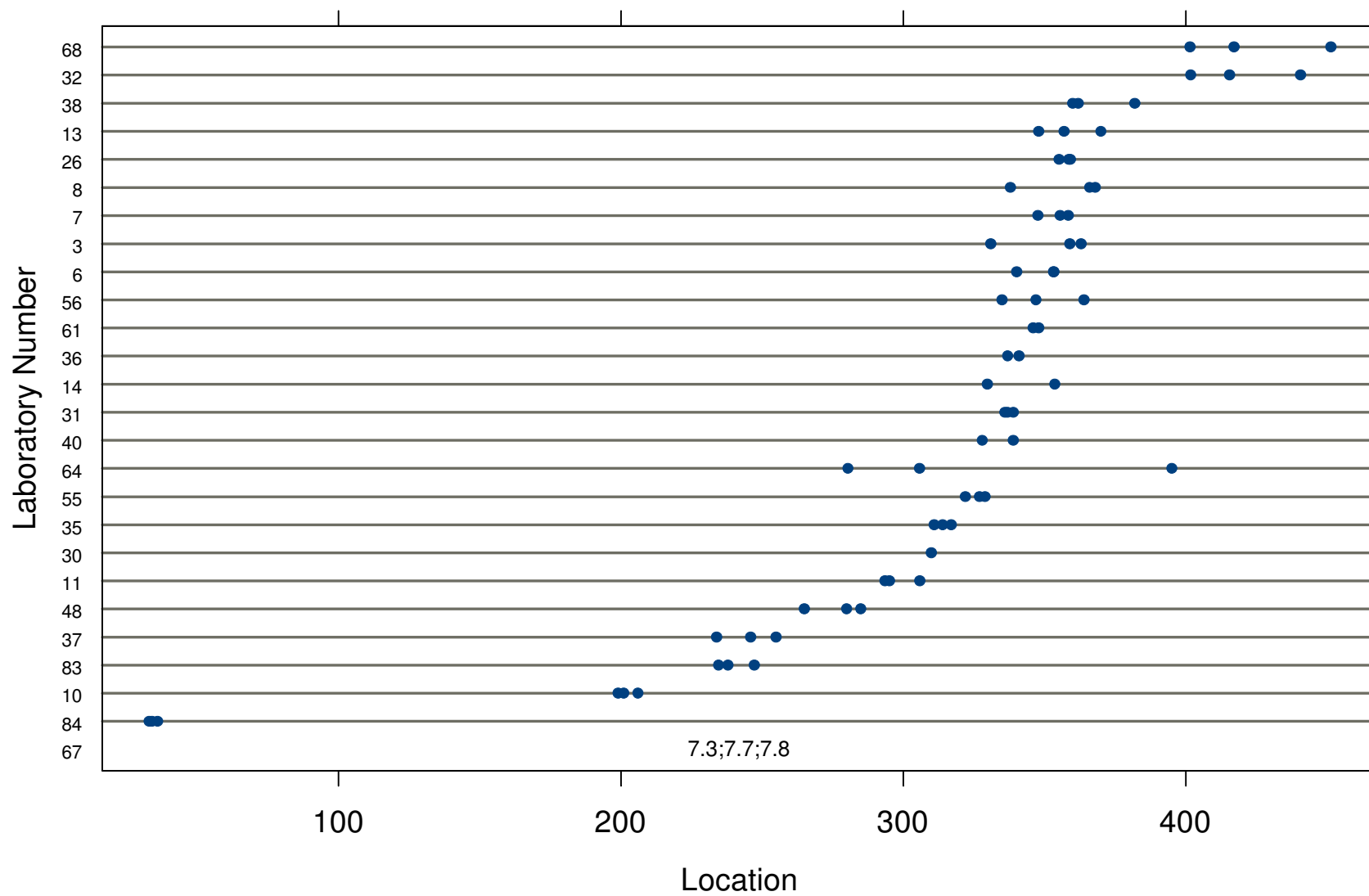
Dot plot sample D

9 - Reactive Fe - Sample D

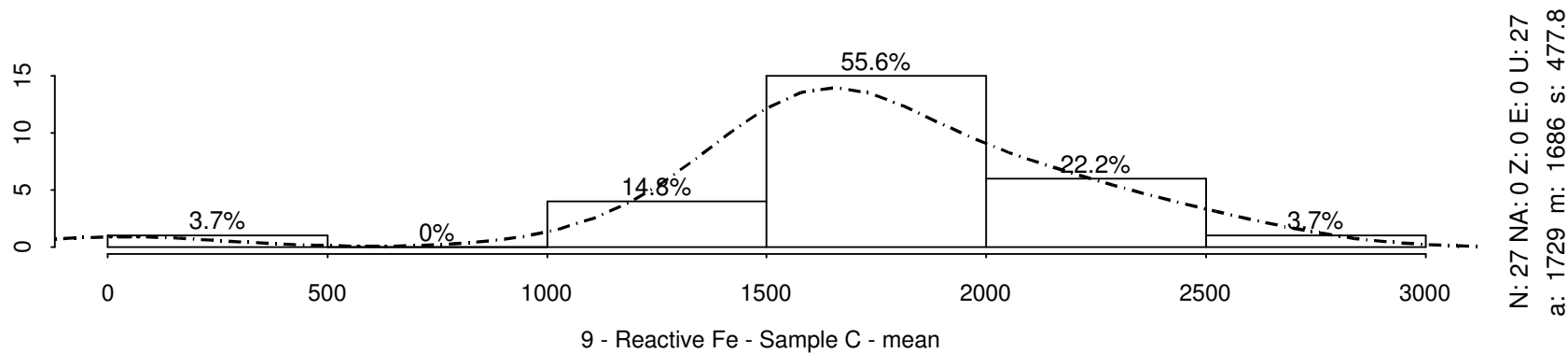
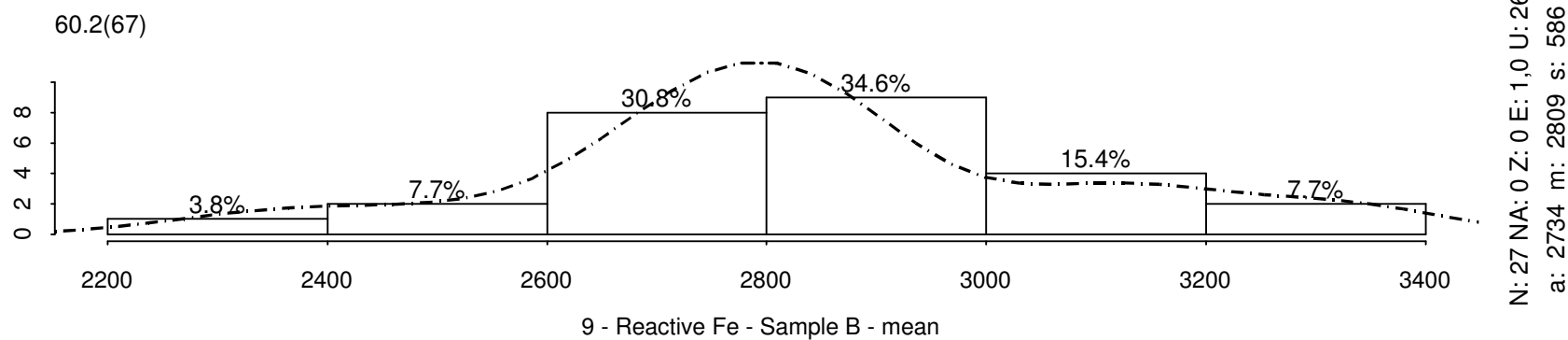
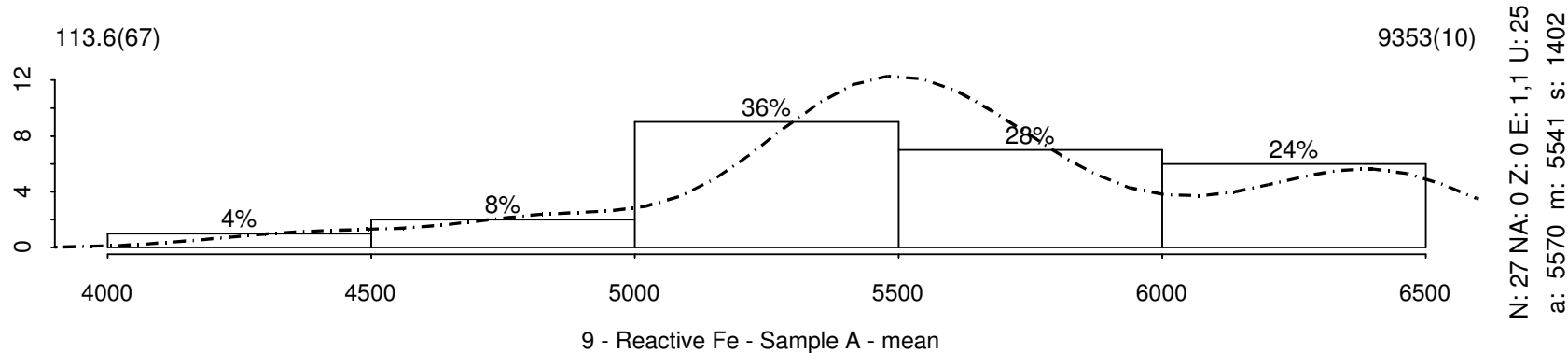


Dot plot sample E

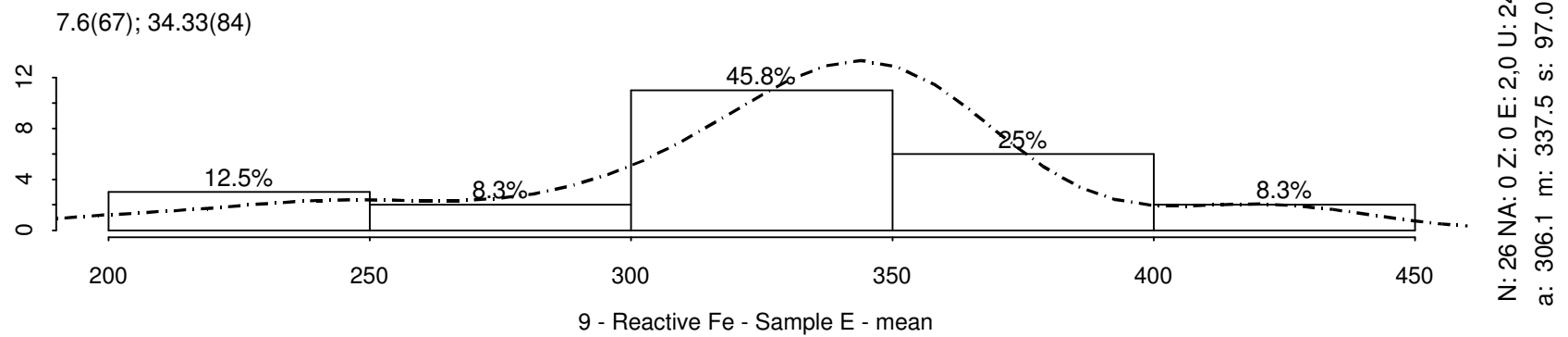
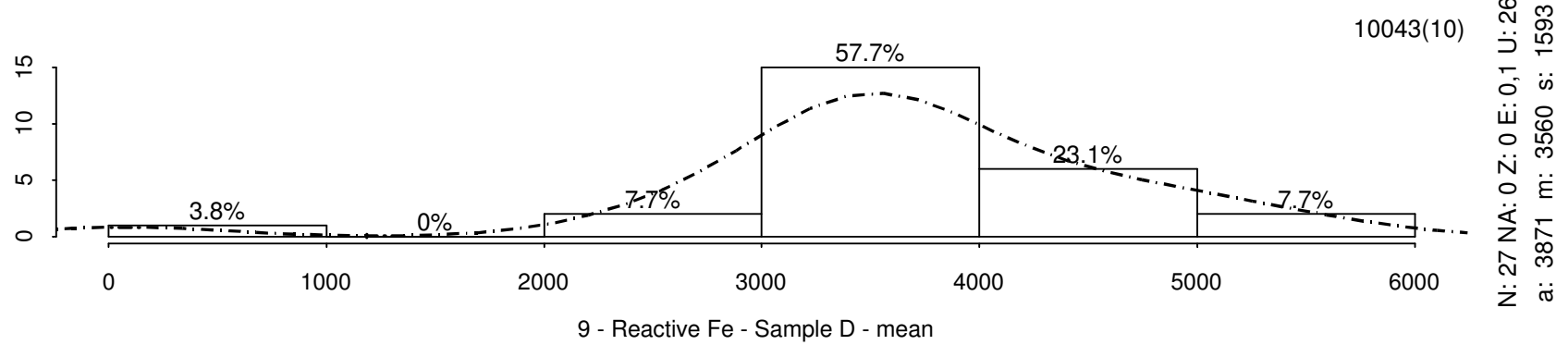
9 - Reactive Fe - Sample E



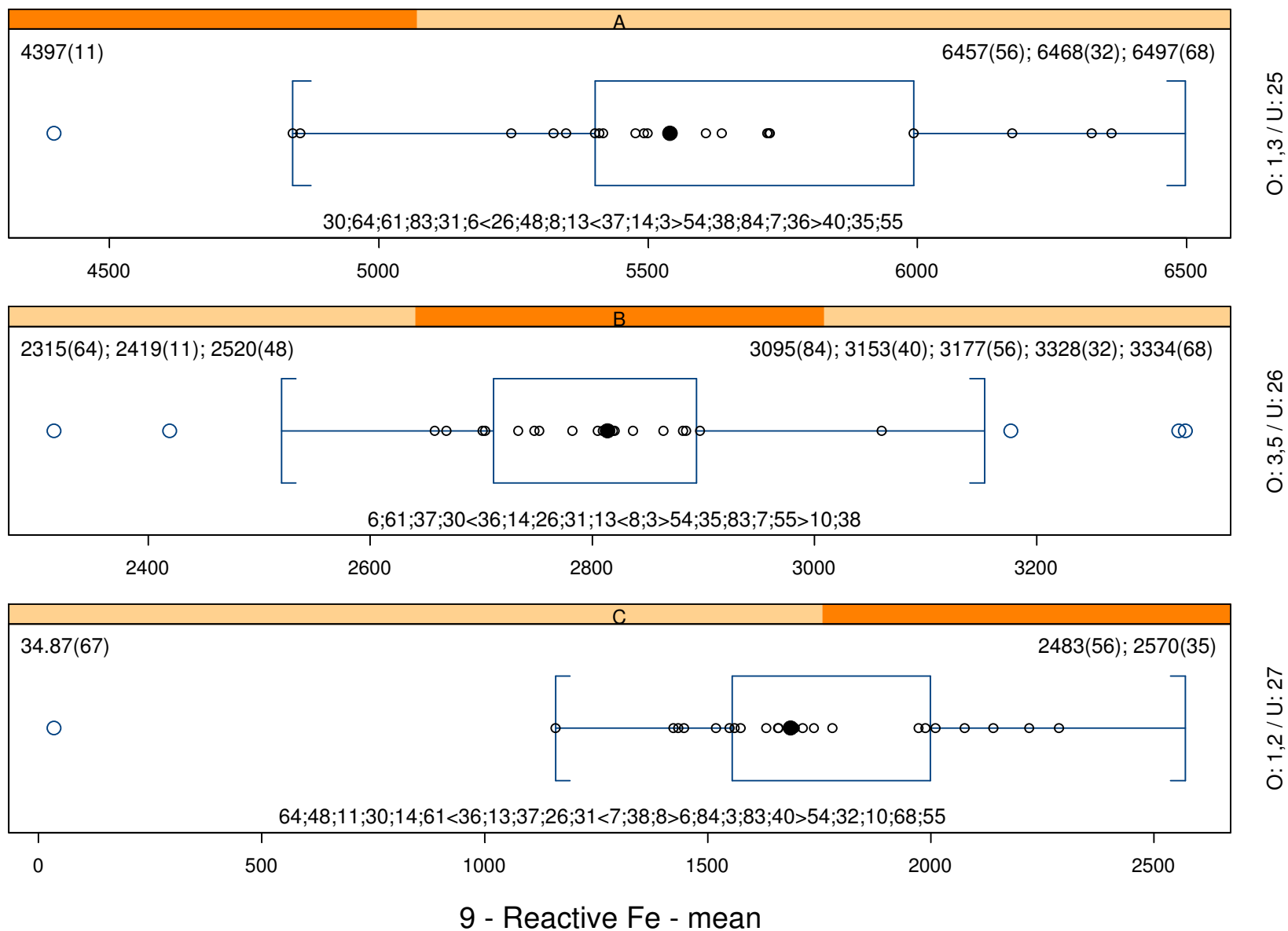
Histogram of the means of samples A, B and C



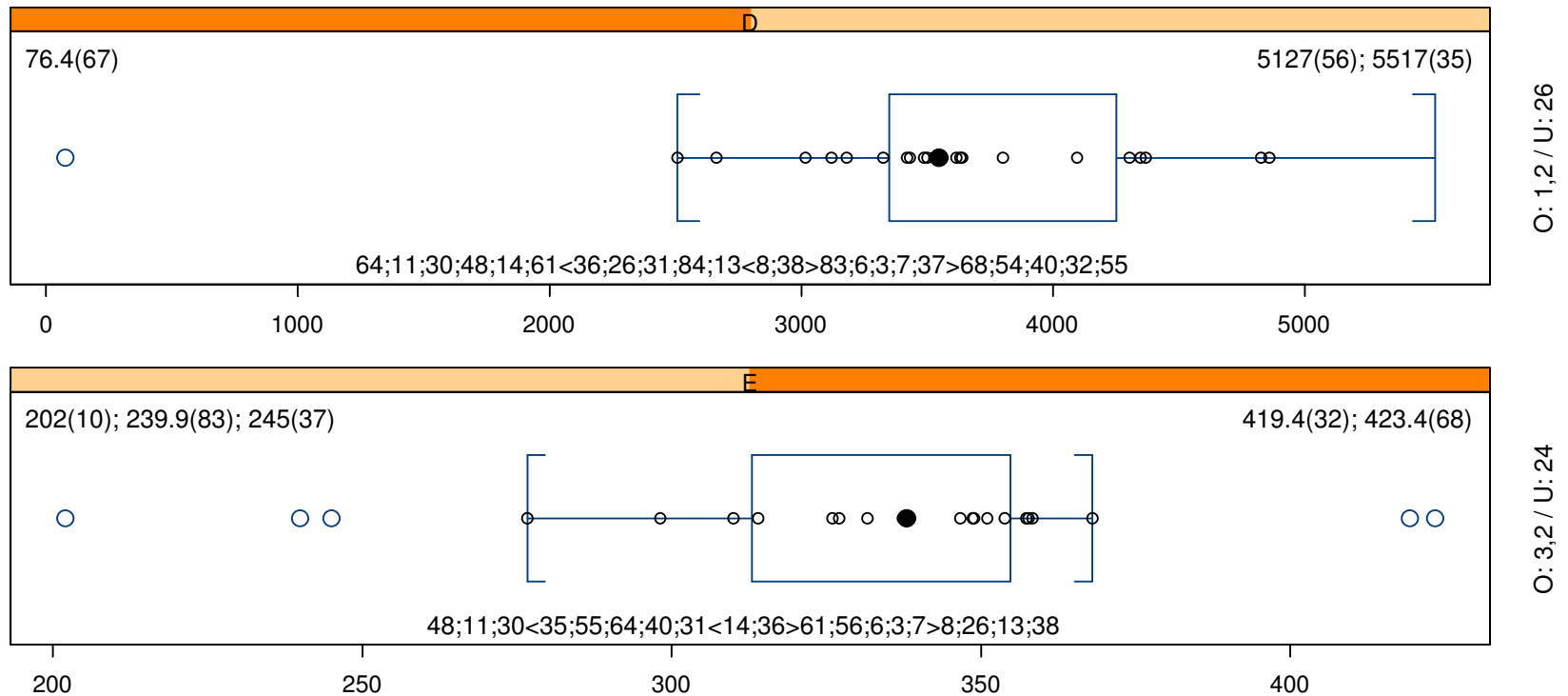
Histogram of the means of samples D and E



Box plot of the means of samples A, B and C

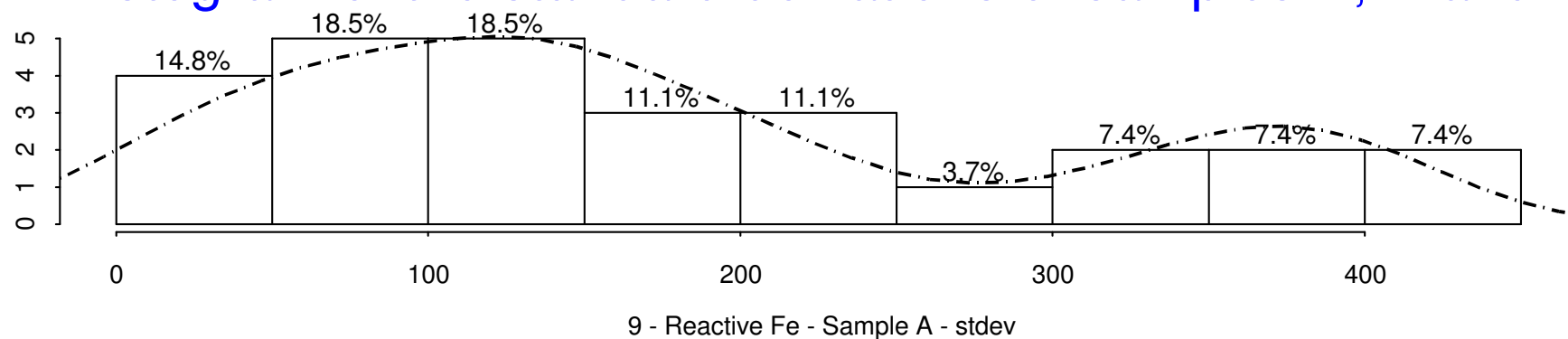


Box plot of the means of samples D and E

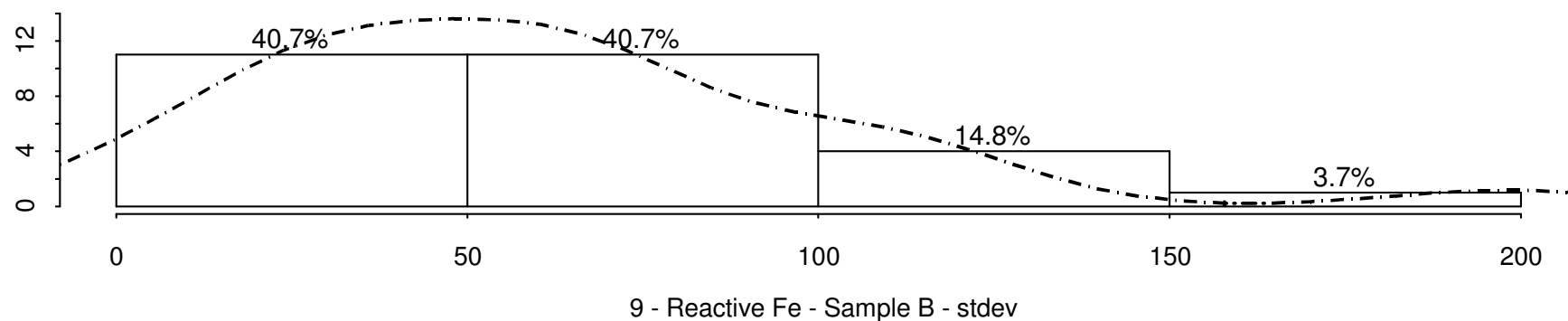


9 - Reactive Fe - mean

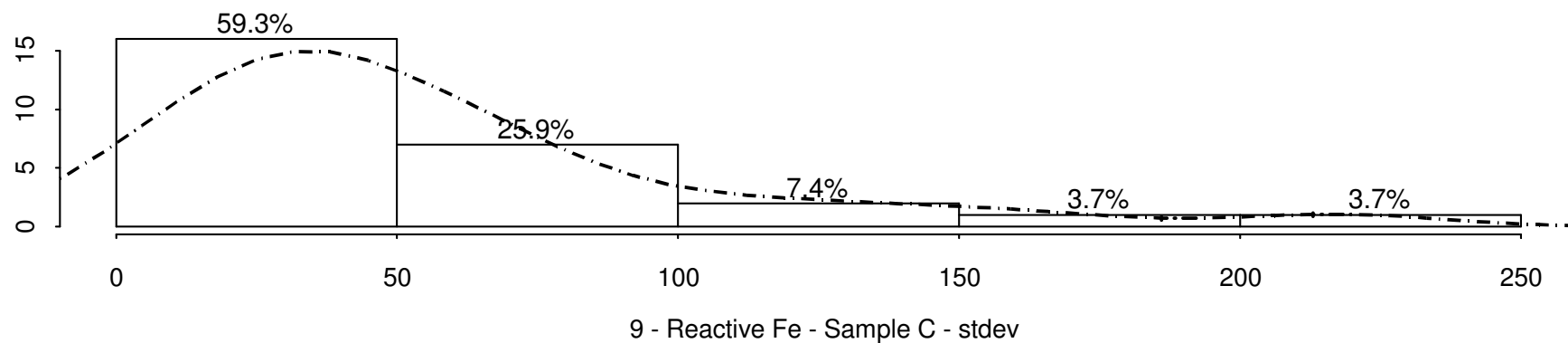
Histogram of the standard deviations of samples A, B and C



N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 176.3 m: 135.2 s: 124.7

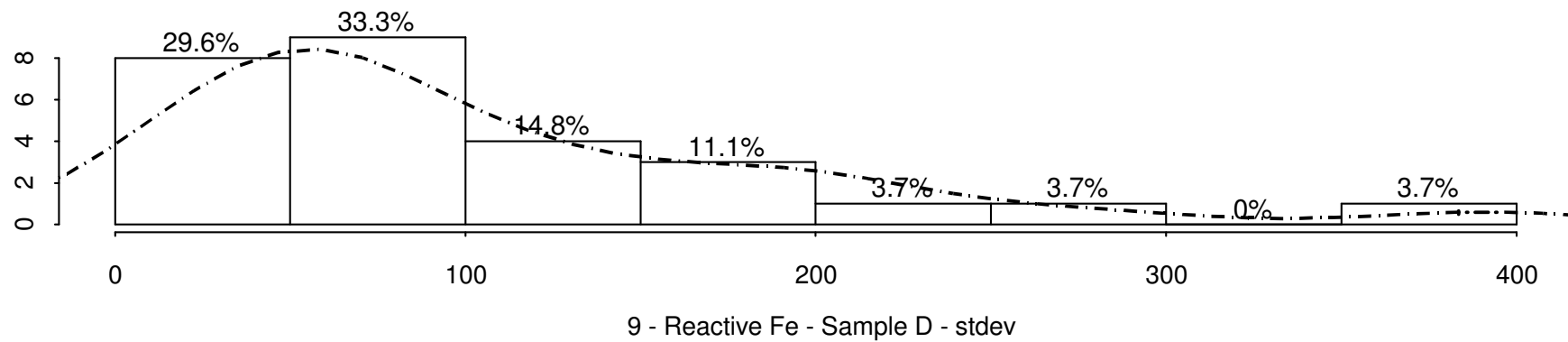


N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 61.31 m: 54.58 s: 42.19

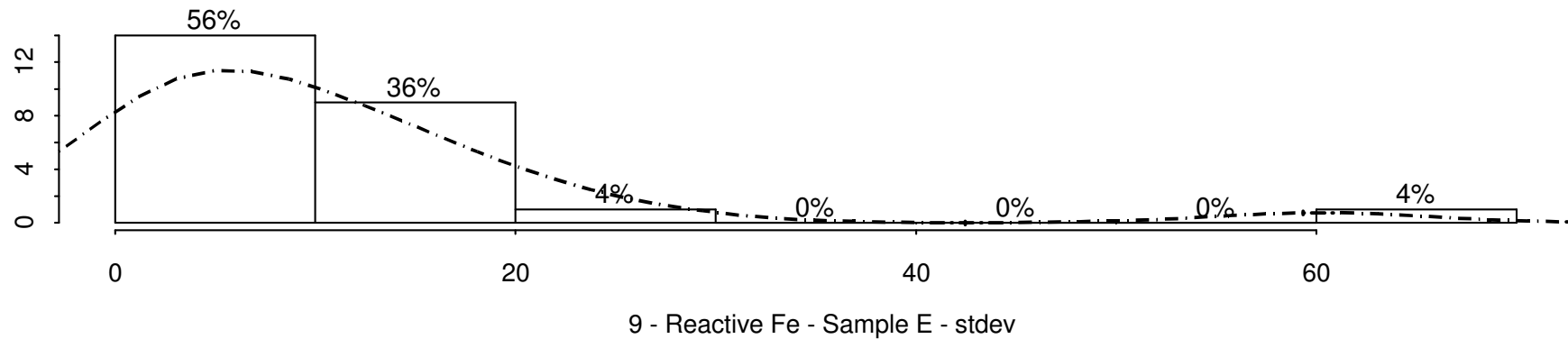


N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 56.68 m: 40.29 s: 49.87

Histogram of the standard deviations of samples D and E

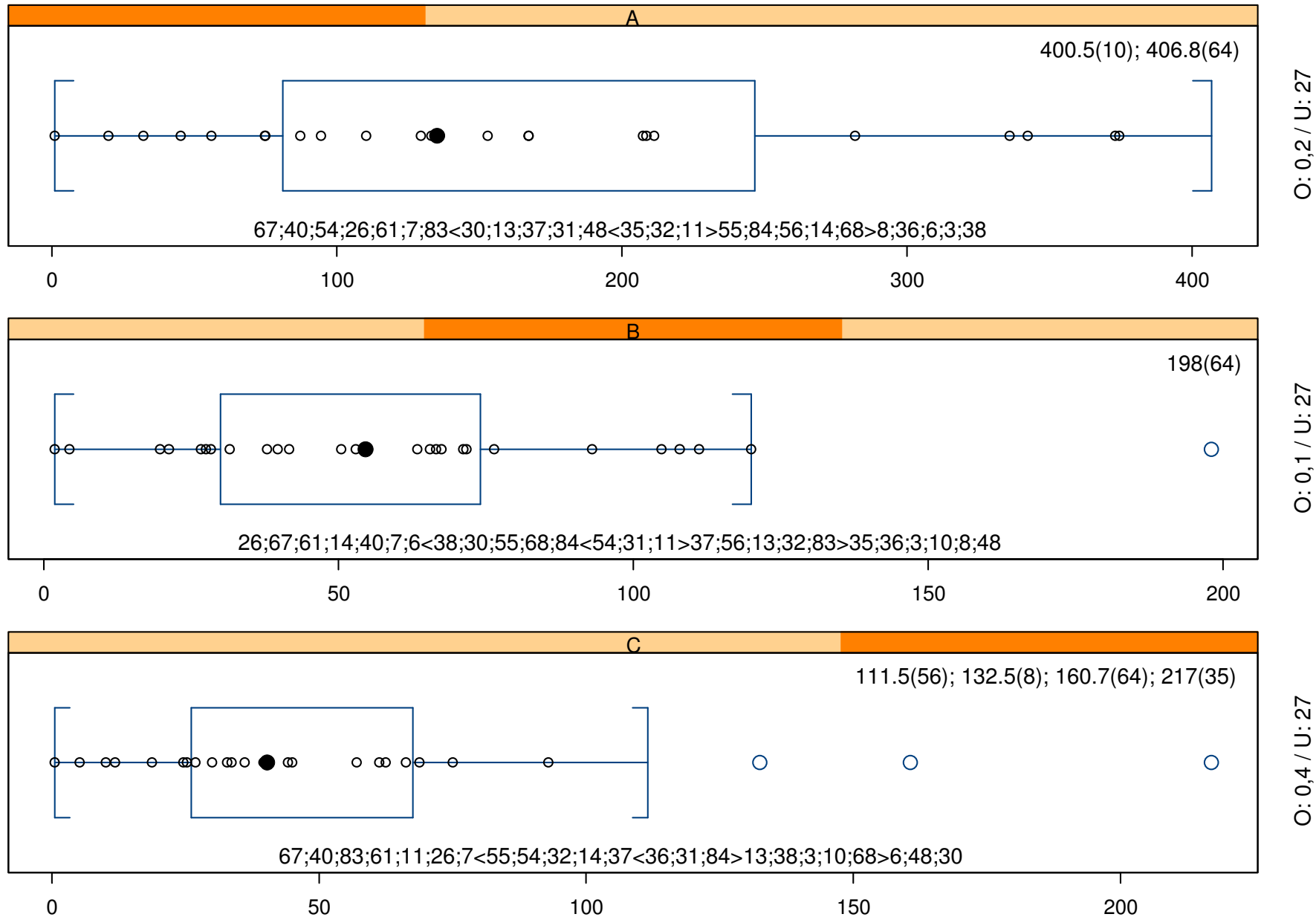


N: 27 NA: 0 Z: 0 E: 0 U: 27
a: 105.2 m: 70.95 s: 89.48



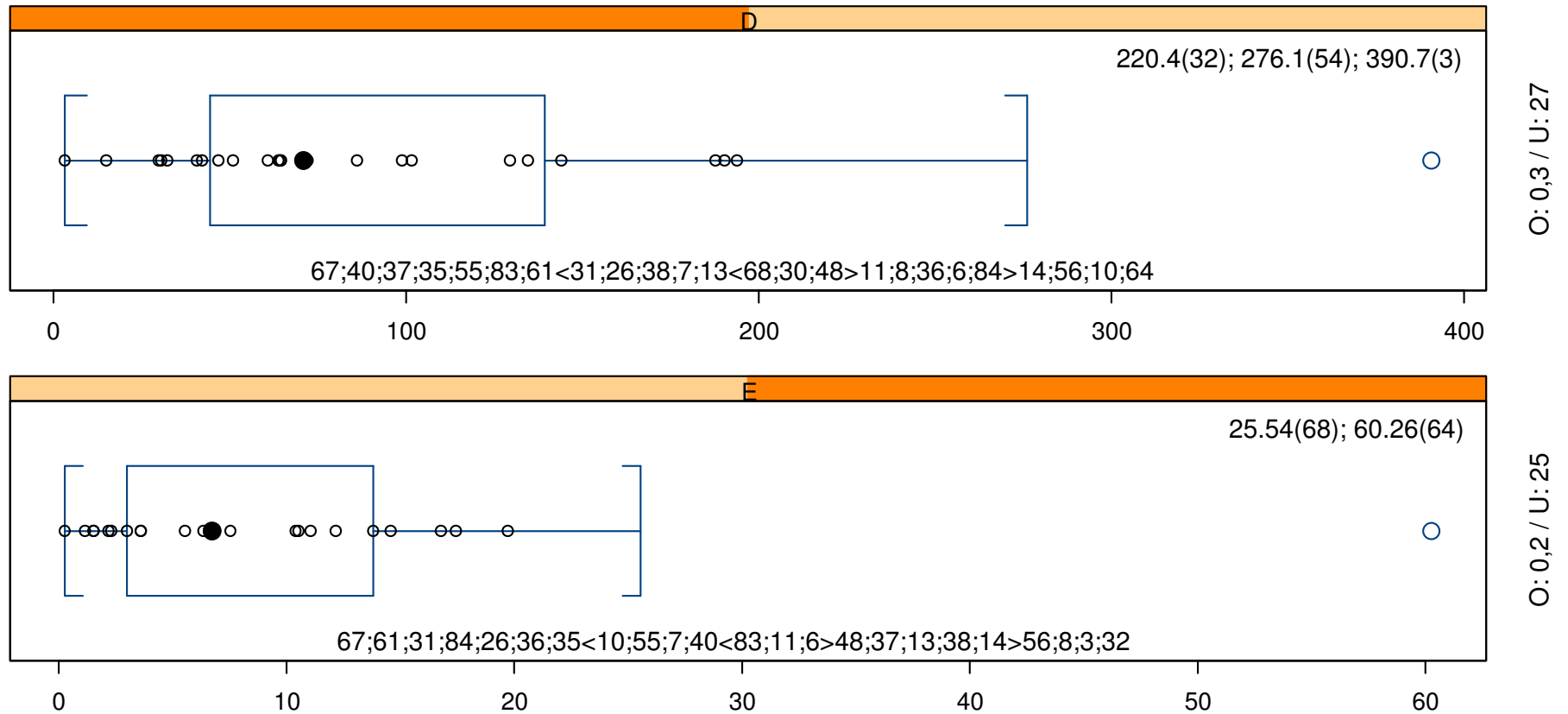
N: 25 NA: 0 Z: 0 E: 0 U: 25
a: 10.57 m: 6.745 s: 12.29

Box plot of the standard deviations of samples A, B and C



9 - Reactive Fe - stdev

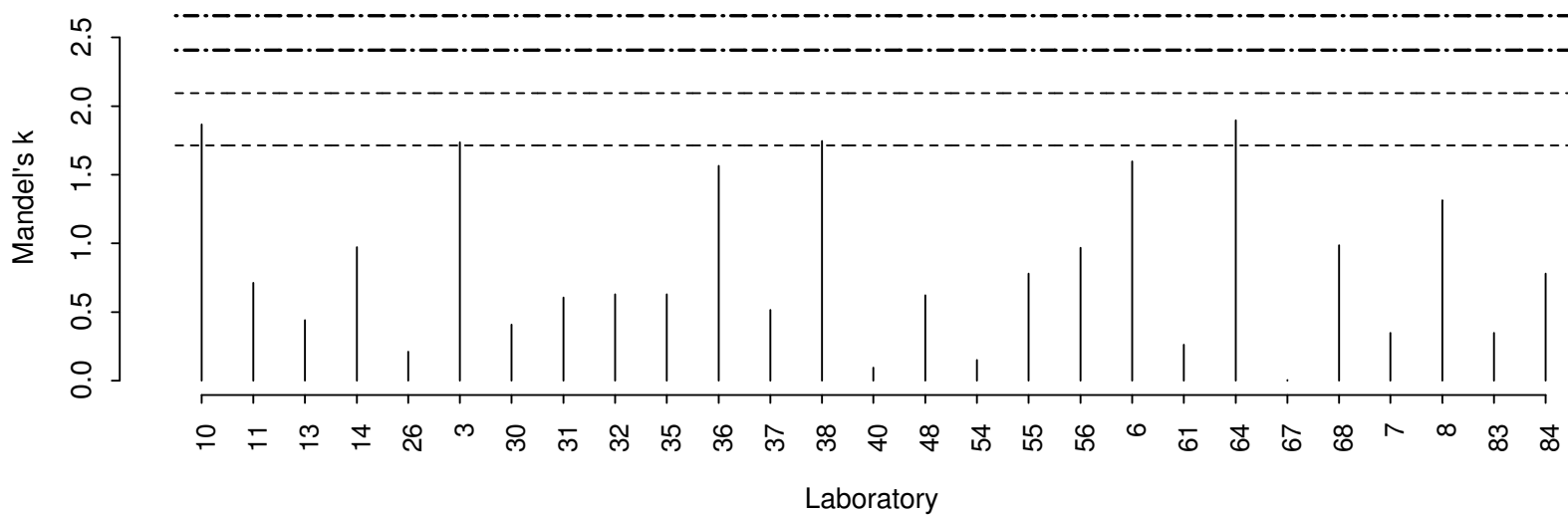
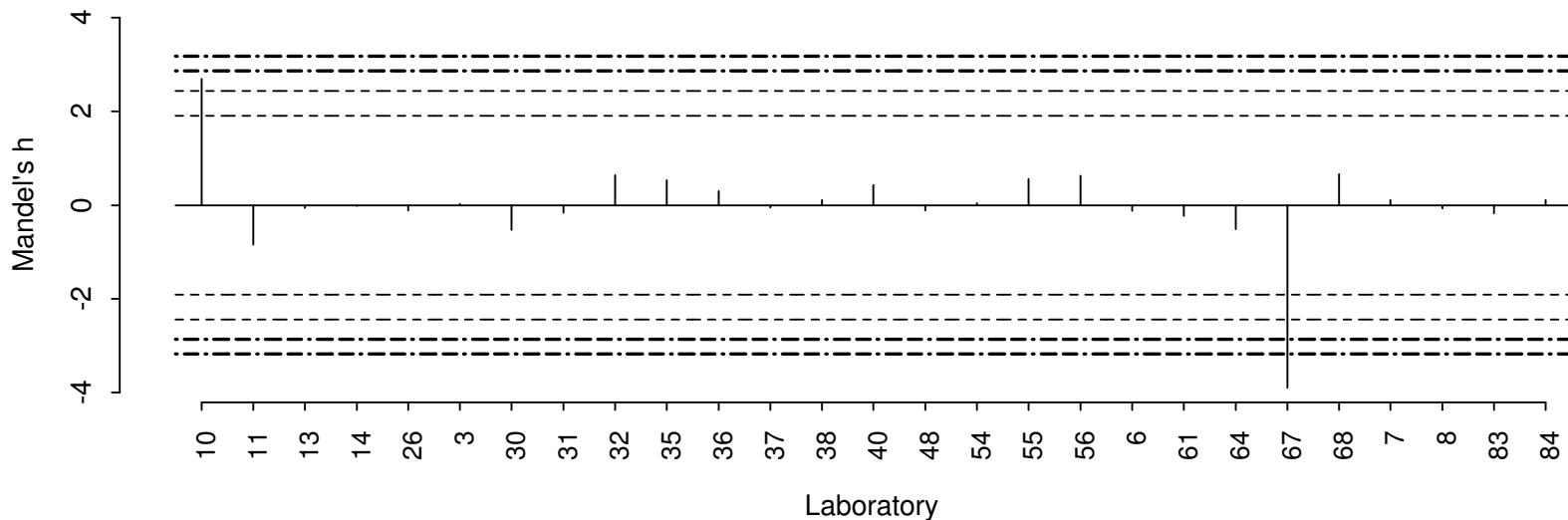
Box plot of the standard deviations of samples D and E



Mandel's h and k plots of sample A

9 - Reactive Fe - sample A

Step:1; Nlab:27; Mgen:5570; Fval:128; Pval:0; sRep:214.6; sLab:1396; sRpr:1413; CV:25.36

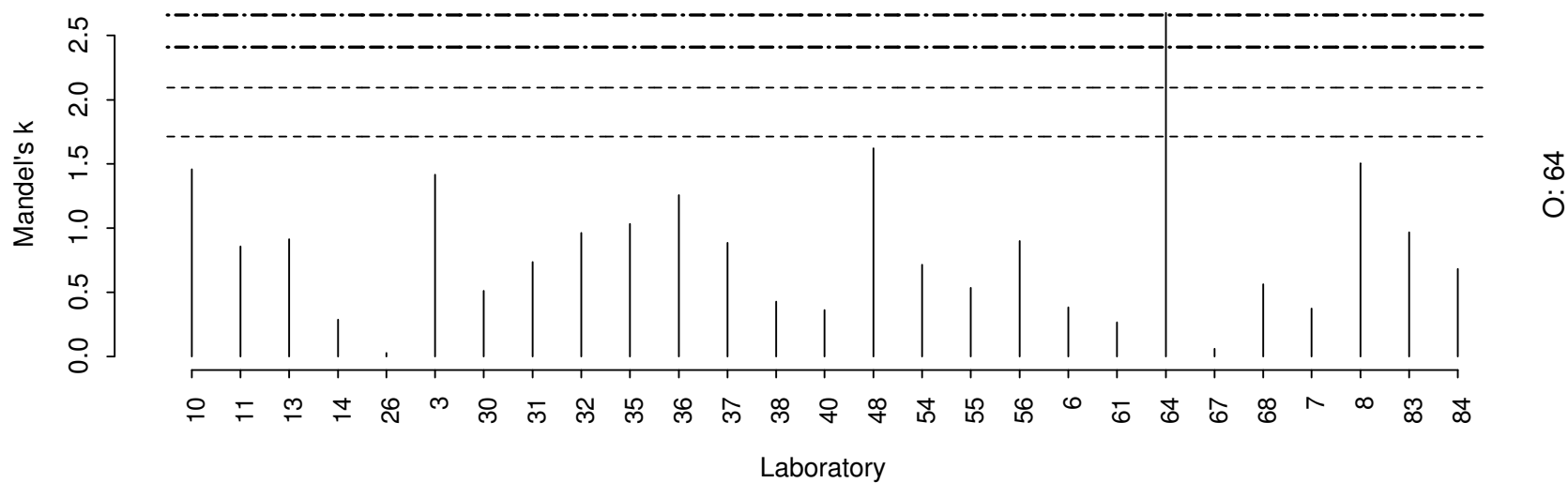
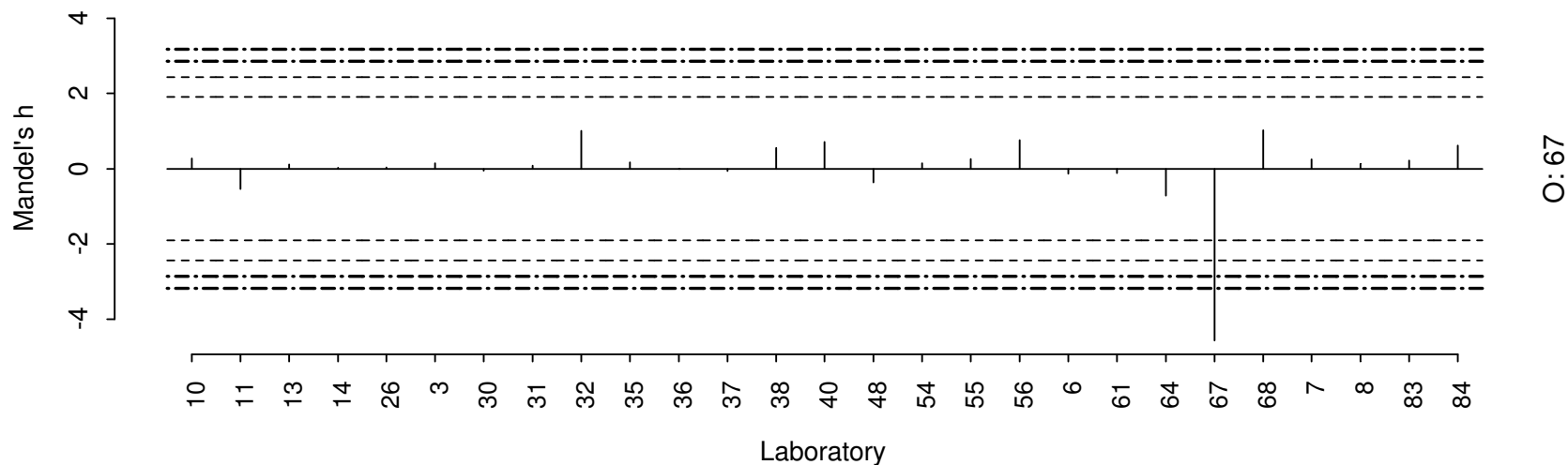


O: 67

Mandel's h and k plots of sample B

9 - Reactive Fe - sample B

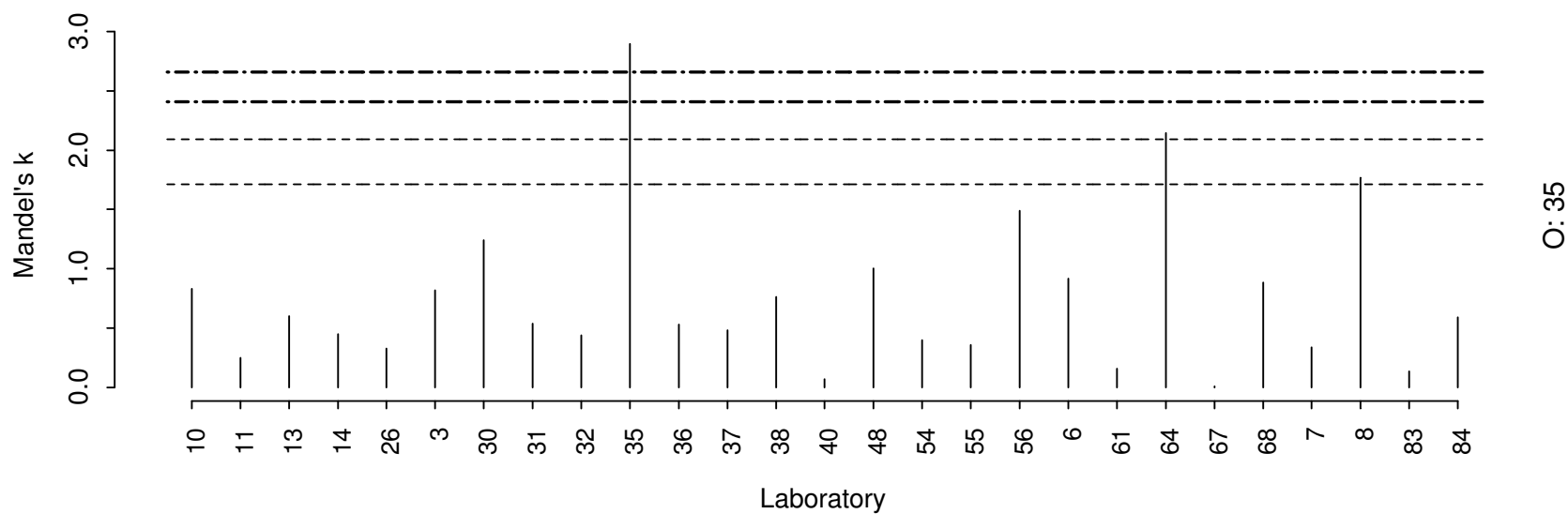
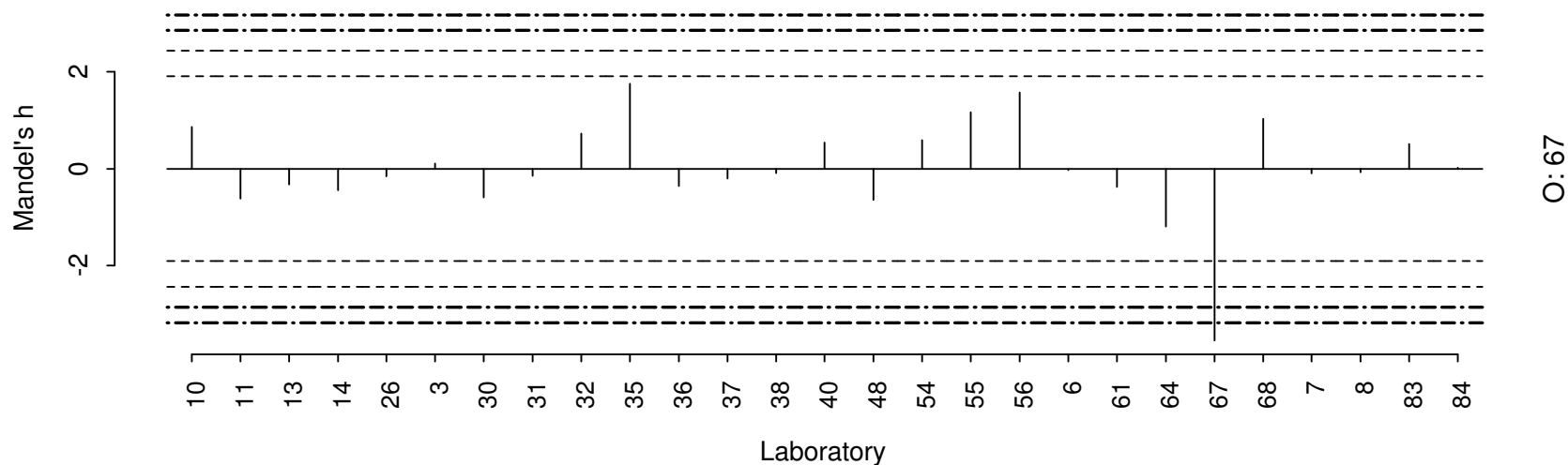
Step:1; Nlab:27; Mgen:2734; Fval:188.2; Pval:0; sRep:73.98; sLab:584.4; sRpr:589.1; CV:21.55



Mandel's h and k plots of sample C

9 - Reactive Fe - sample C

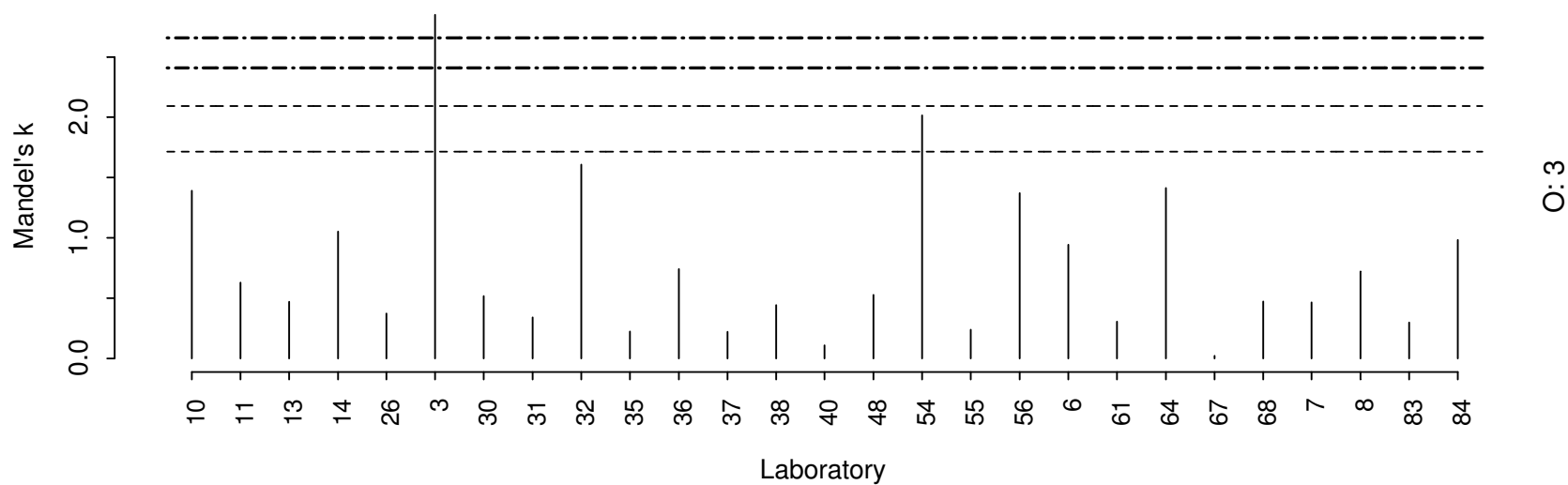
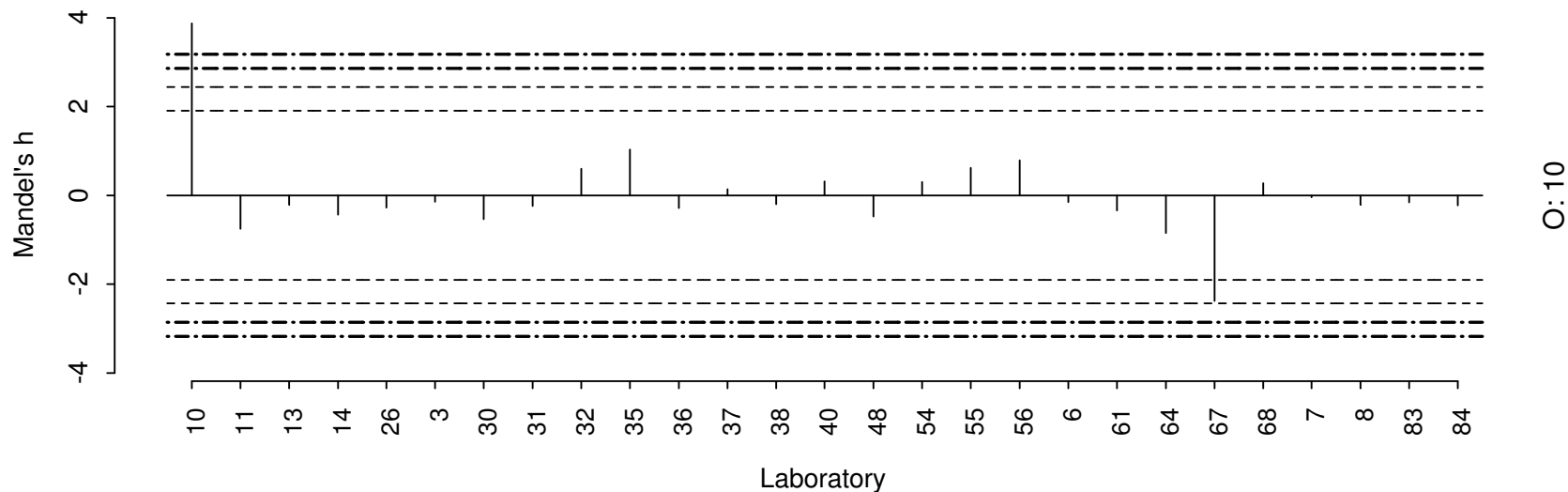
Step:1; Nlab:27; Mgen:1729; Fval:122.1; Pval:0; sRep:74.88; sLab:475.8; sRpr:481.7; CV:27.86



Mandel's h and k plots of sample D

9 - Reactive Fe - sample D

Step:1; Nlab:27; Mgen:3871; Fval:405.1; Pval:0; sRep:137.1; sLab:1591; sRpr:1597; CV:41.24



Mandel's h and k plots of sample E

9 - Reactive Fe - sample E

Step:1; Nlab:26; Mgen:306.1; Fval:114.5; Pval:0; sRep:15.71; sLab:96.62; sRpr:97.89; CV:31.98

