Project Name: 2024−04−17_mspms_normalyze_output

NormalyzerDE (ver 1.19.7)

Report created on: 2024−04−17

Citation: NormalyzerDE: Online Tool for Improved Normalization of Omics Expression Data and High−Sensitivity Differential Expression Analysis
Journal of Proteome Research (2018), 10.1021/acs.jproteome.8b00523

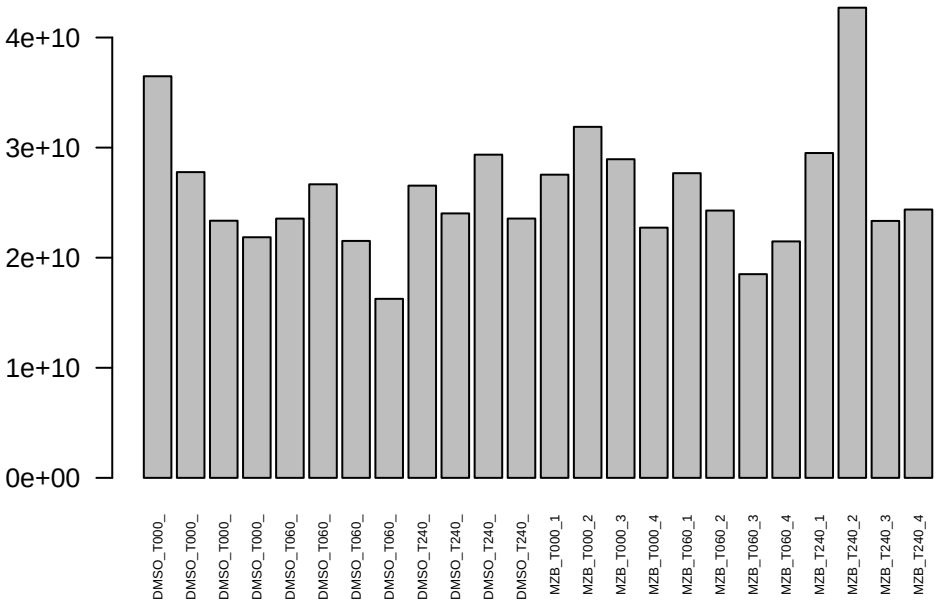
Documentation for analyzing this report can be found at http://quantitativeproteomics.org/normalyzer/help.php

Sample setup

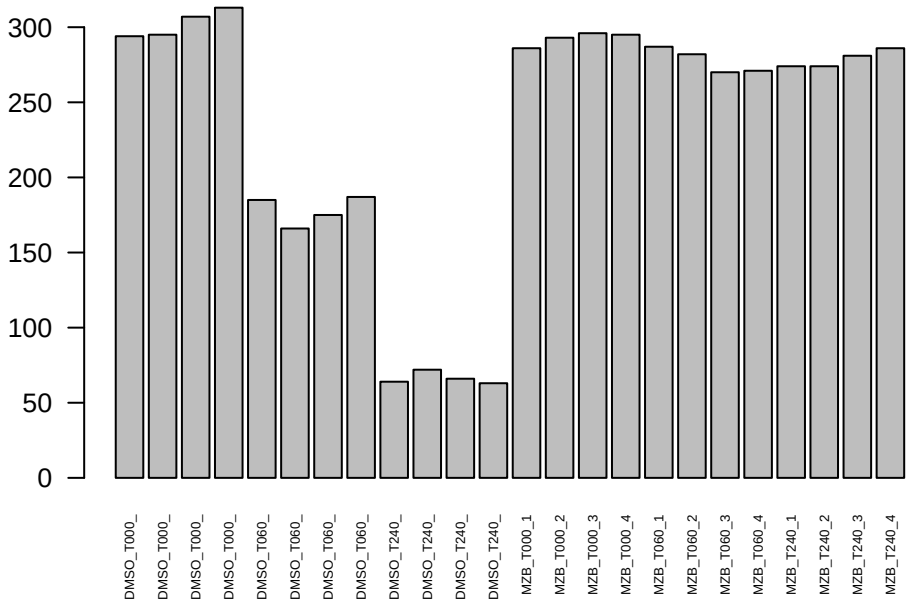
Group nbr.	Design group	Nbr. samples in cond.
1	DMSO_T0	4
2	DMSO_T240	4
3	DMSO_T60	4
4	MZB_T0	4
5	MZB_T240	4
6	MZB_T60	4

Please note that the grouping only impacts evaluation measures and visuals seen in the report, they do not impact the performed normalizations.

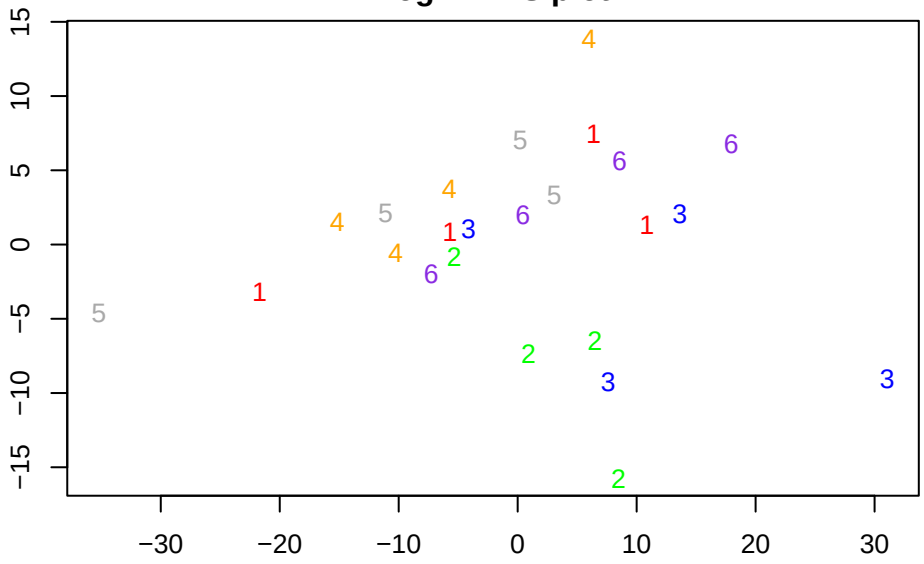
Total intensity

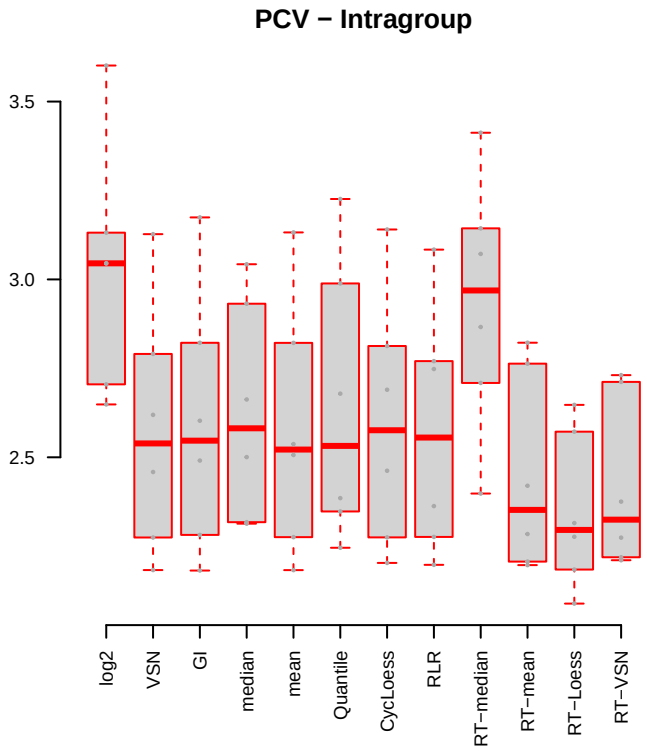


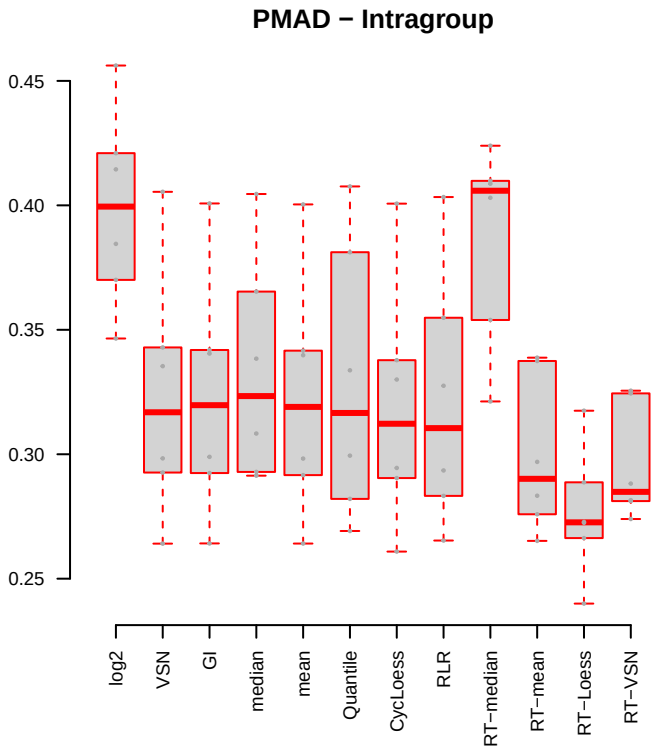
Total missing

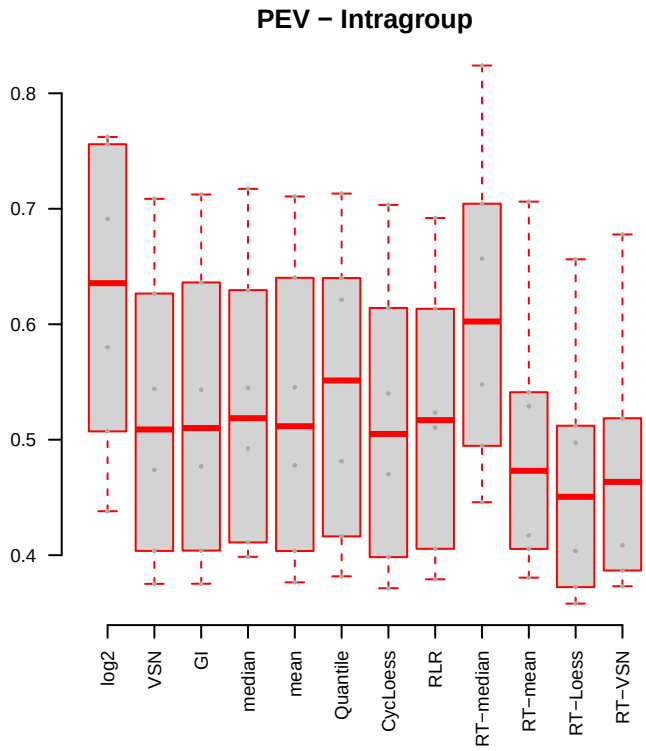


Log2−MDS plot

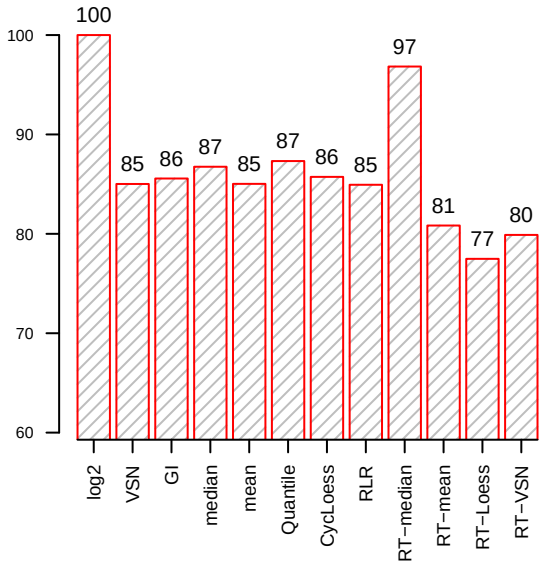



PCV − Intragroup
3.5
3.0
2.5
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN

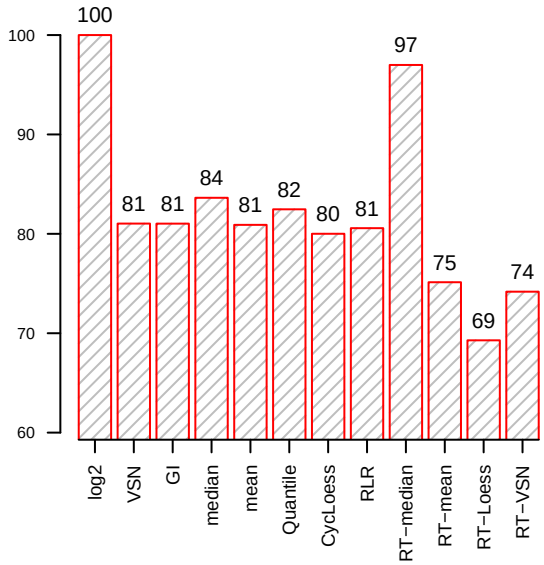

PMAD − Intragroup
0.45
0.40
0.35
0.30
0.25
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN


PEV − Intragroup
0.8
0.7
0.6
0.5
0.4
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN

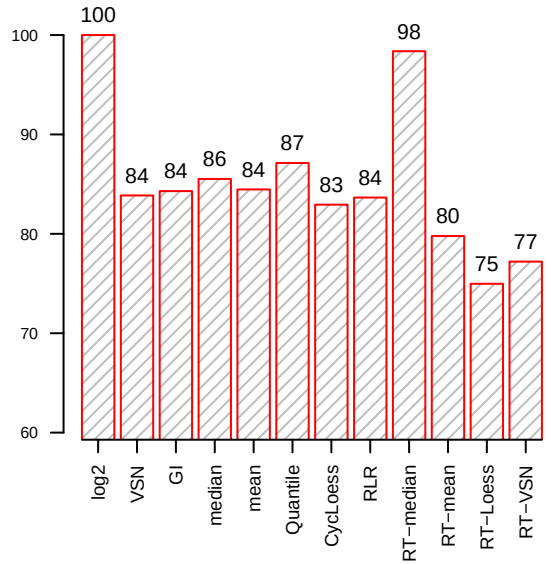
PCV compared to log2



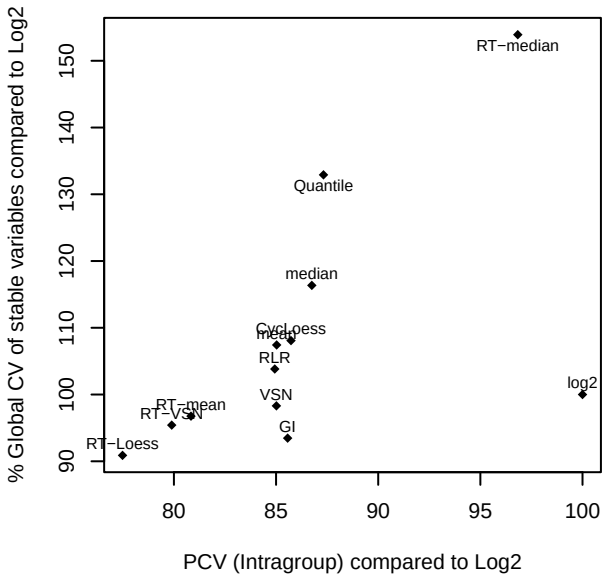
PMAD compared to log2

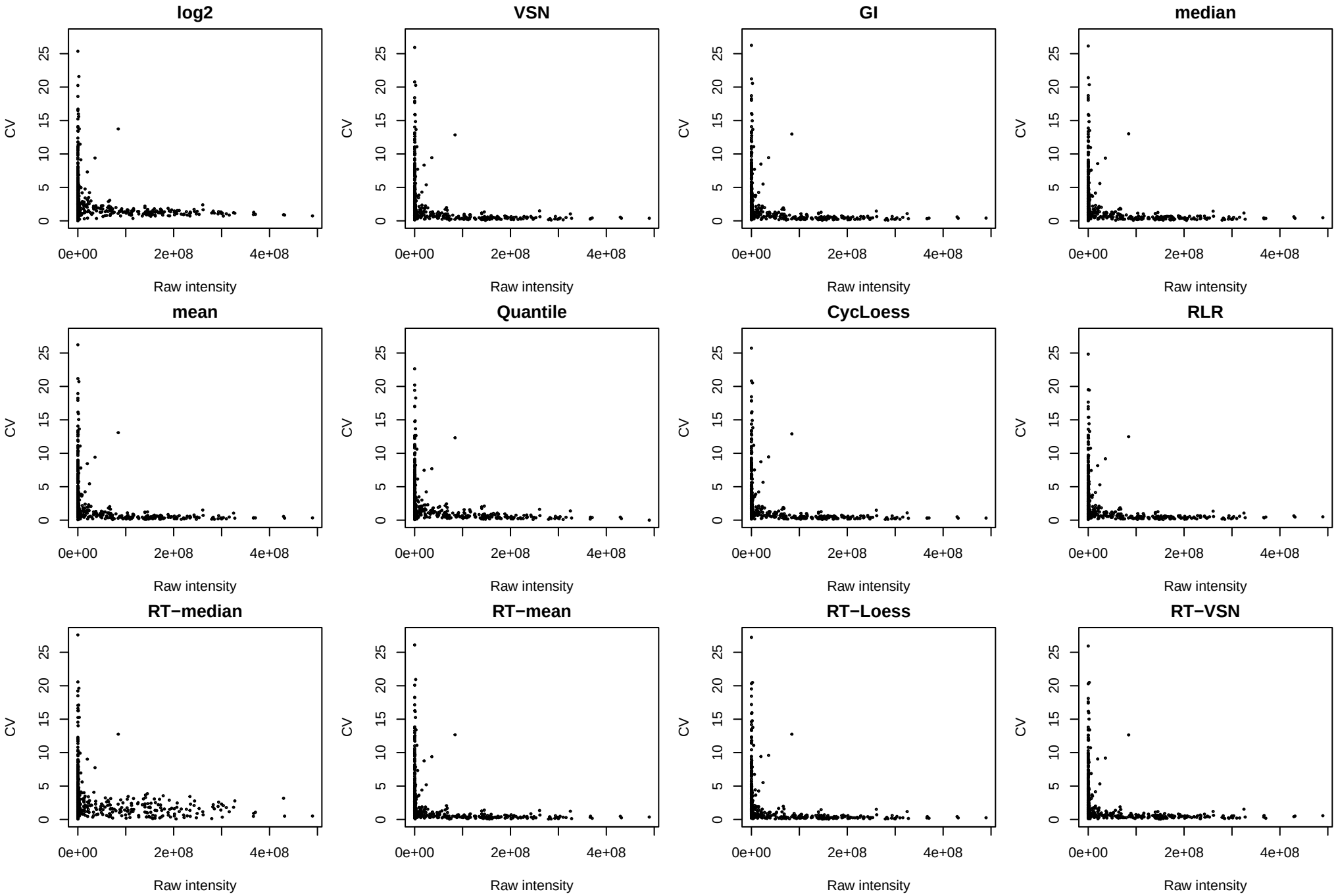


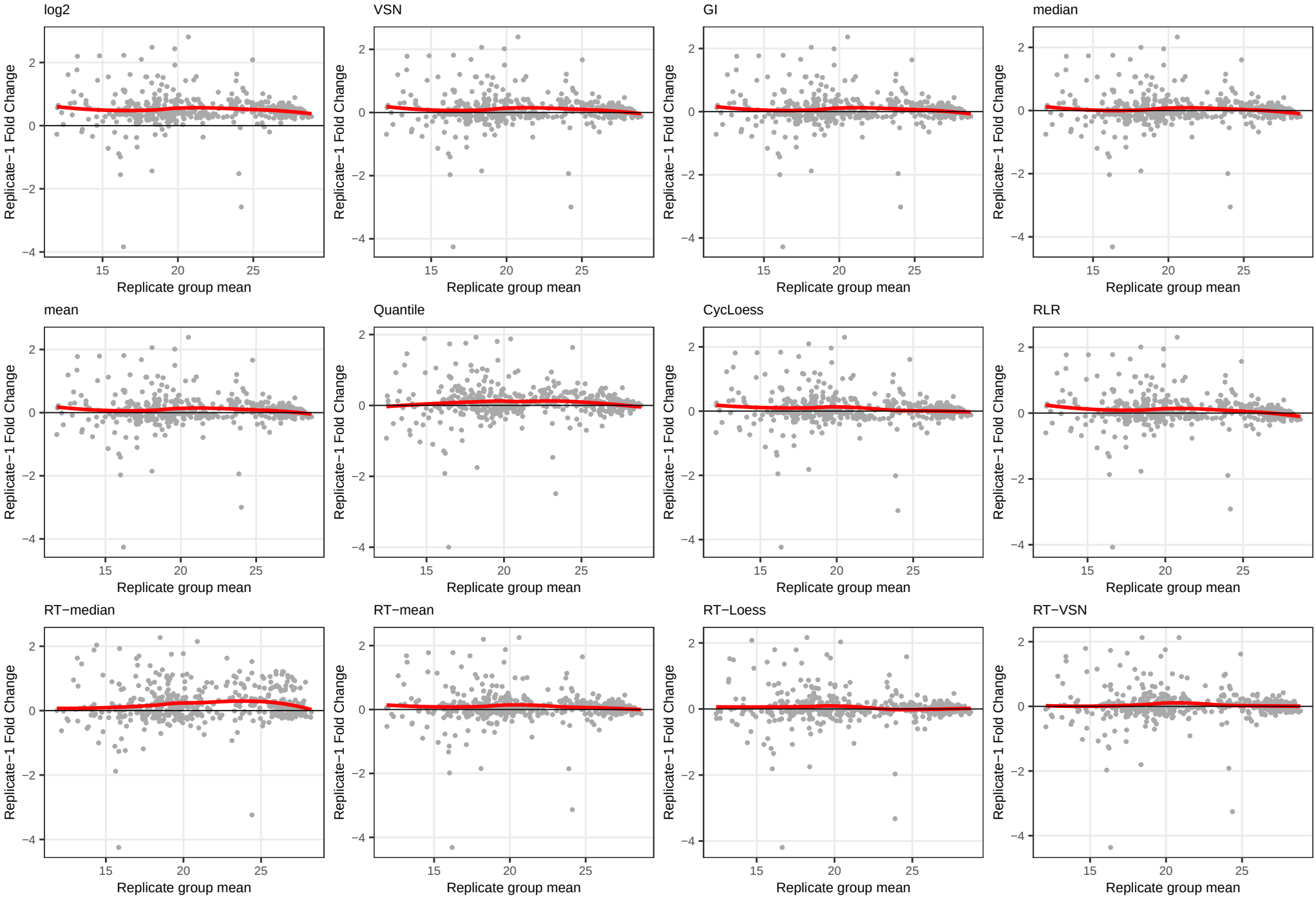
%PEV − compared to log2

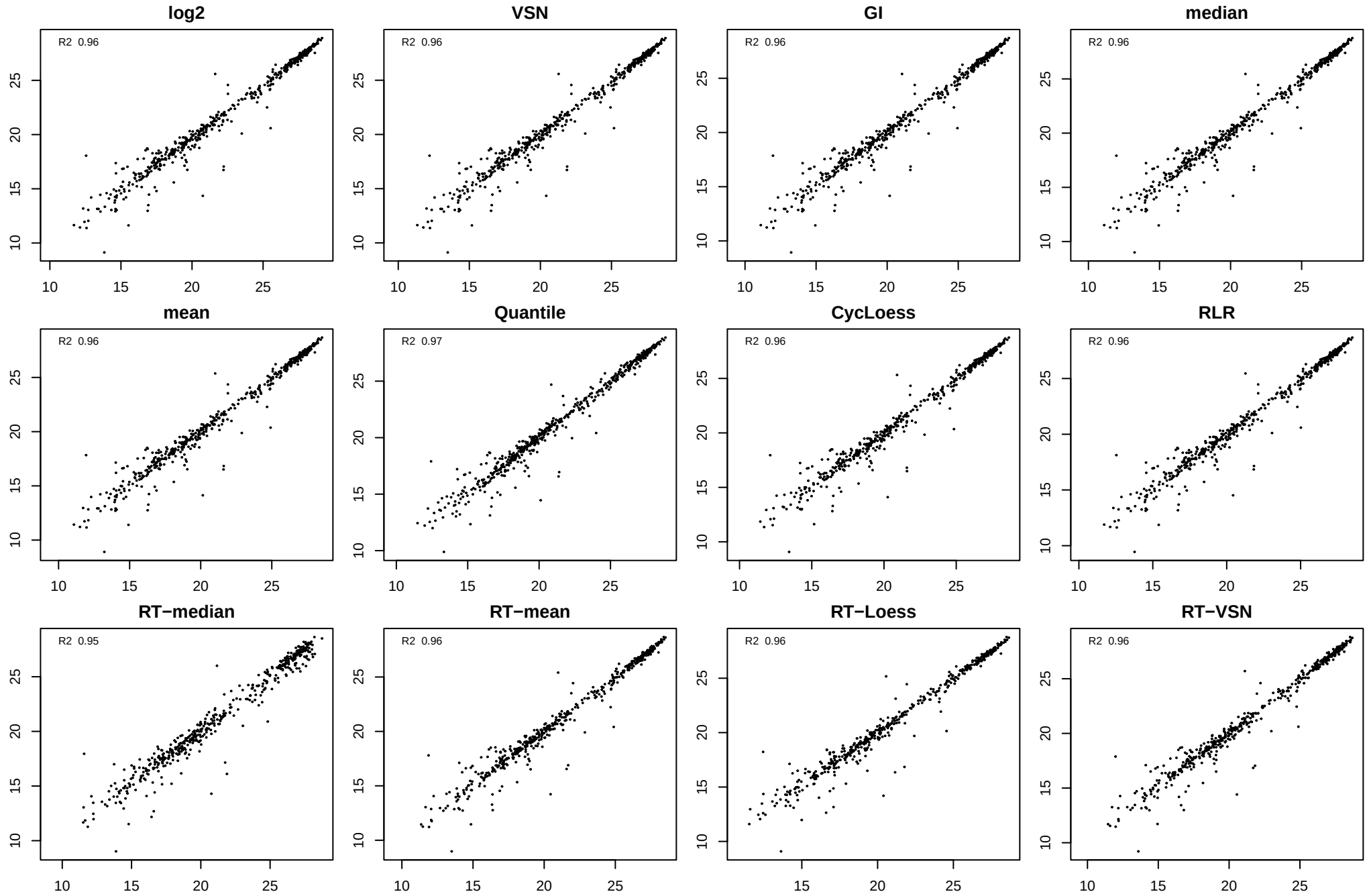


Stable variables plot

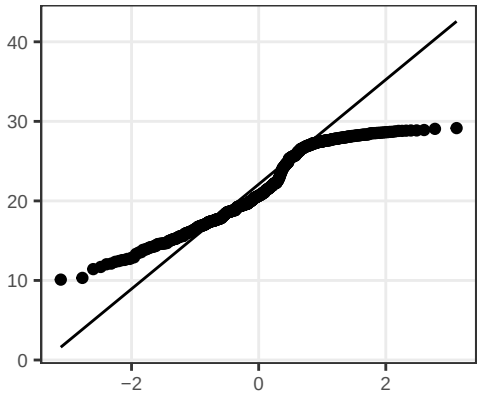



log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN
CV
Raw intensity
0
5
10
15
20
25
0e+00
2e+08
4e+08

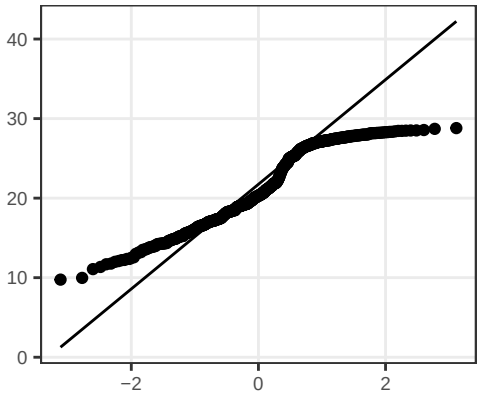

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN
Replicate−1 Fold Change
Replicate group mean
2
0
−2
−4
15
20
25


log2
R2 0.96
VSN
R2 0.96
GI
R2 0.96
median
R2 0.96
mean
R2 0.96
Quantile
R2 0.97
CycLoess
R2 0.96
RLR
R2 0.96
RT−median
R2 0.95
RT−mean
R2 0.96
RT−Loess
R2 0.96
RT−VSN
R2 0.96

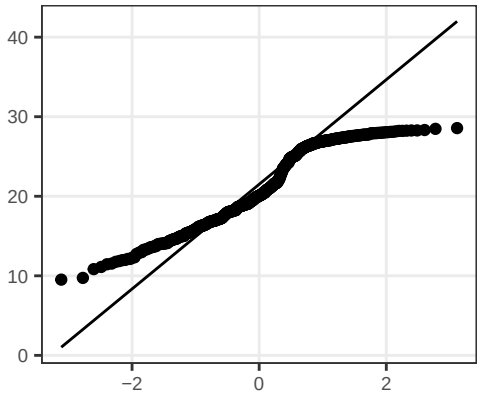
log2



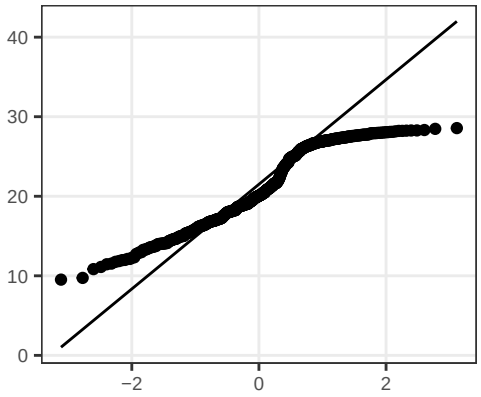
VSN



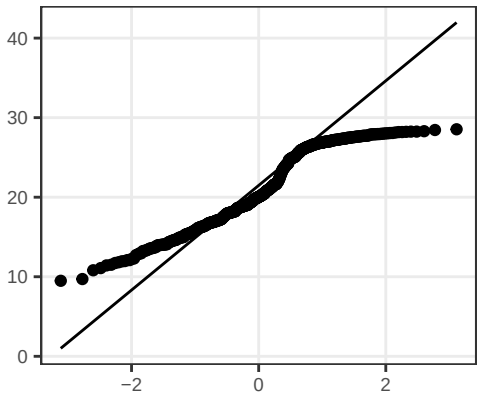
GI



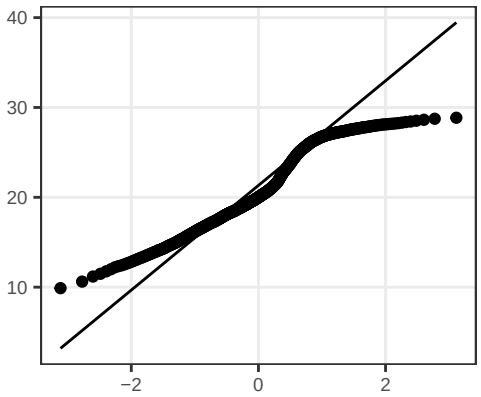
median



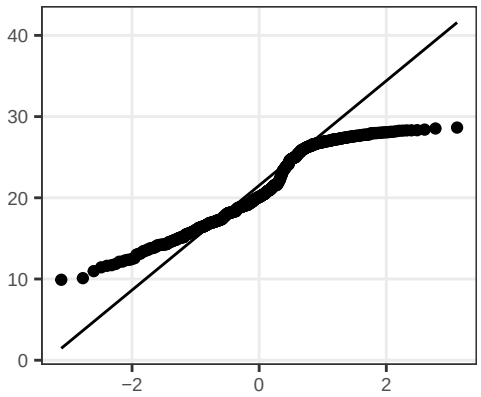
mean



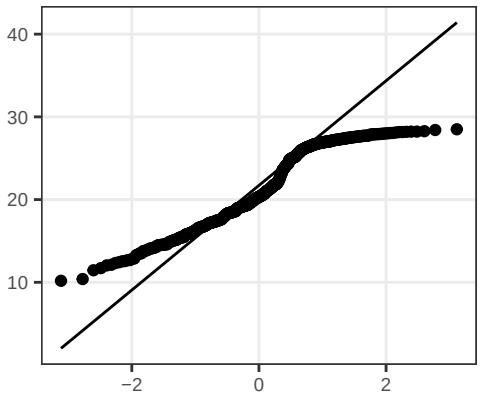
Quantile



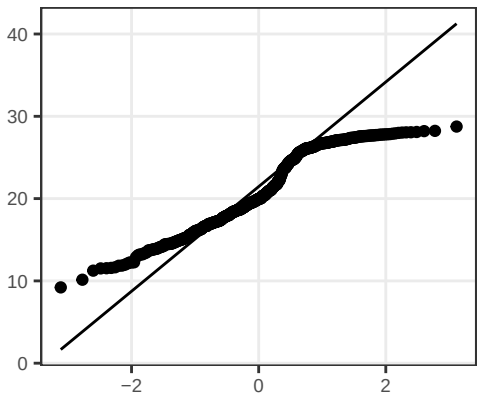
CycLoess



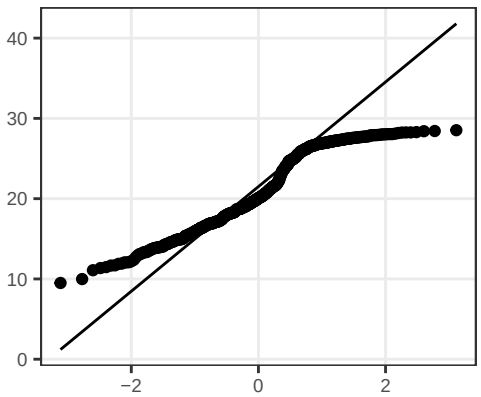
RLR



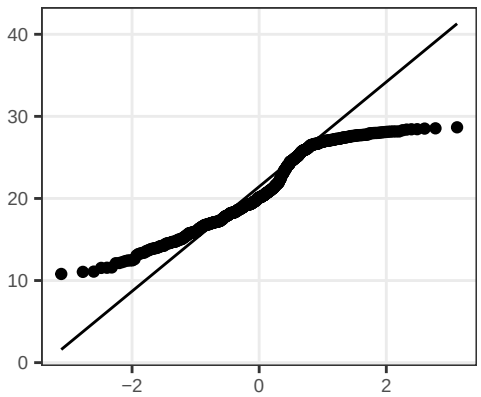
RT−median



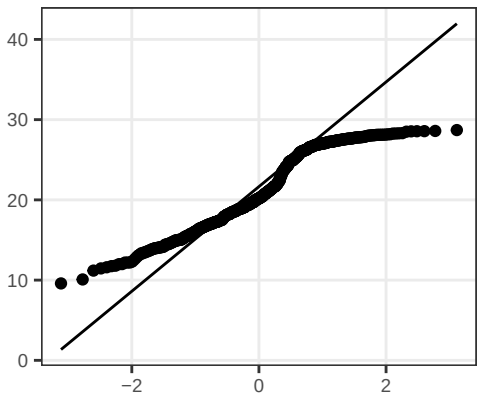
RT−mean

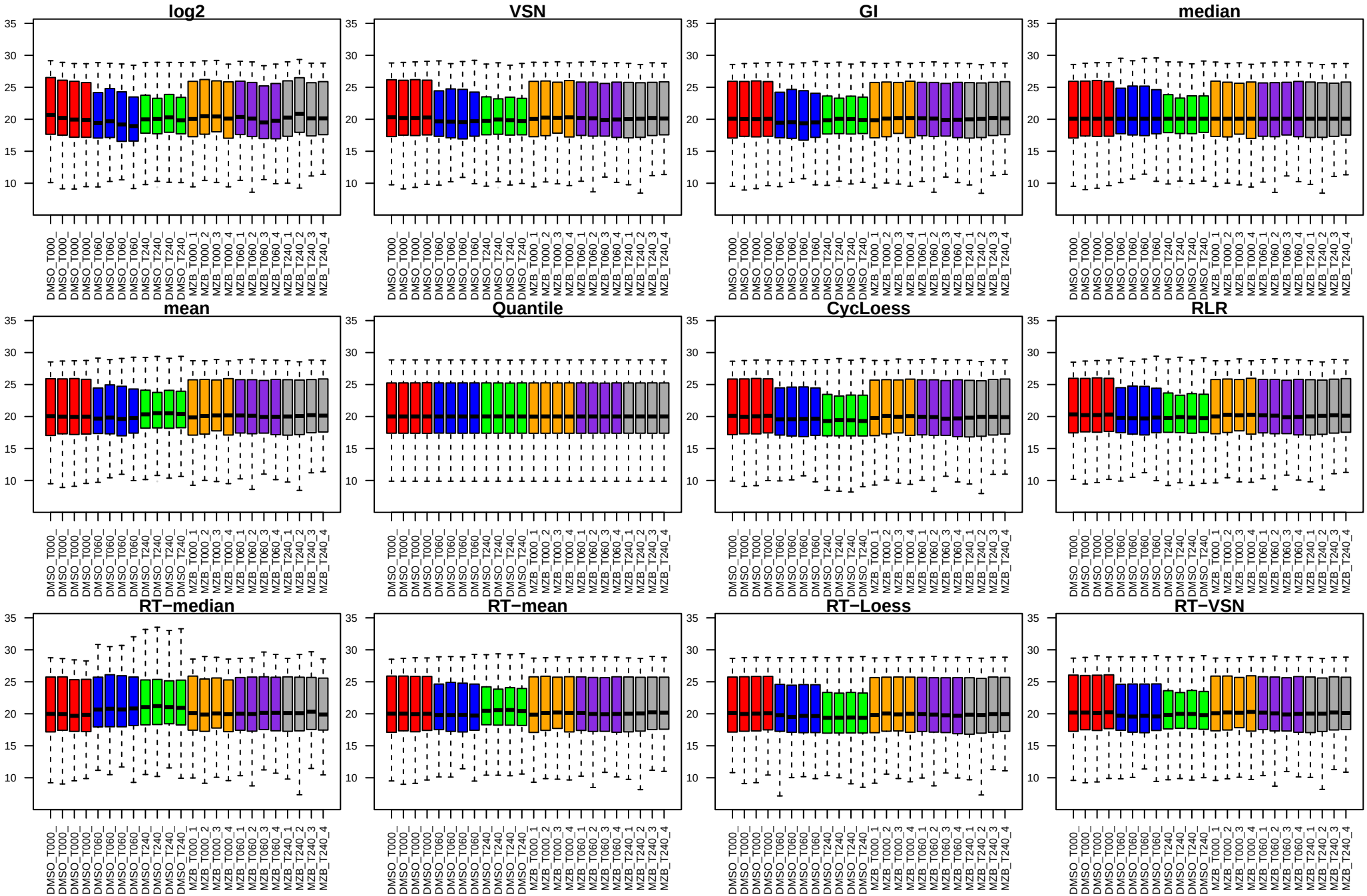


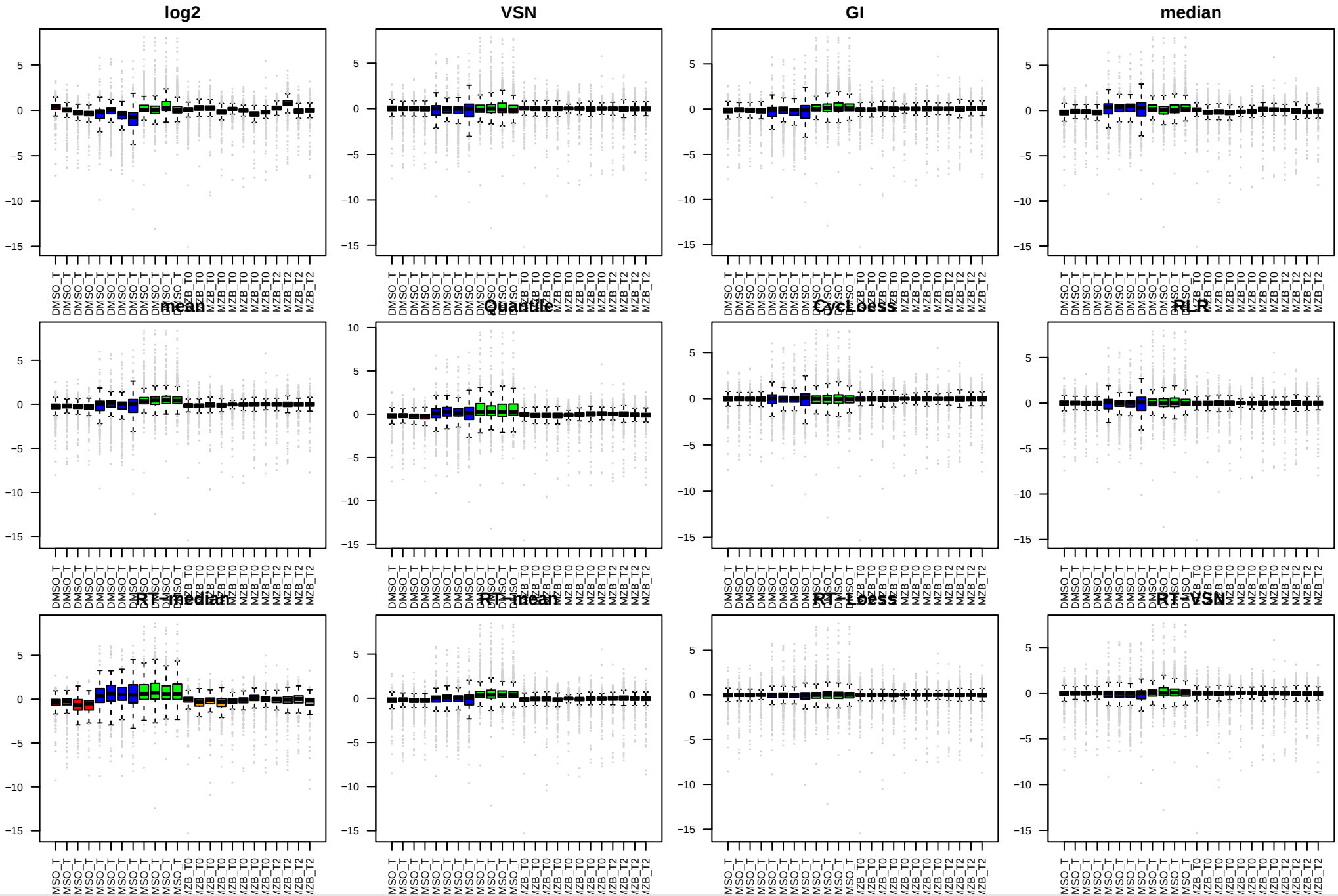
RT−Loess

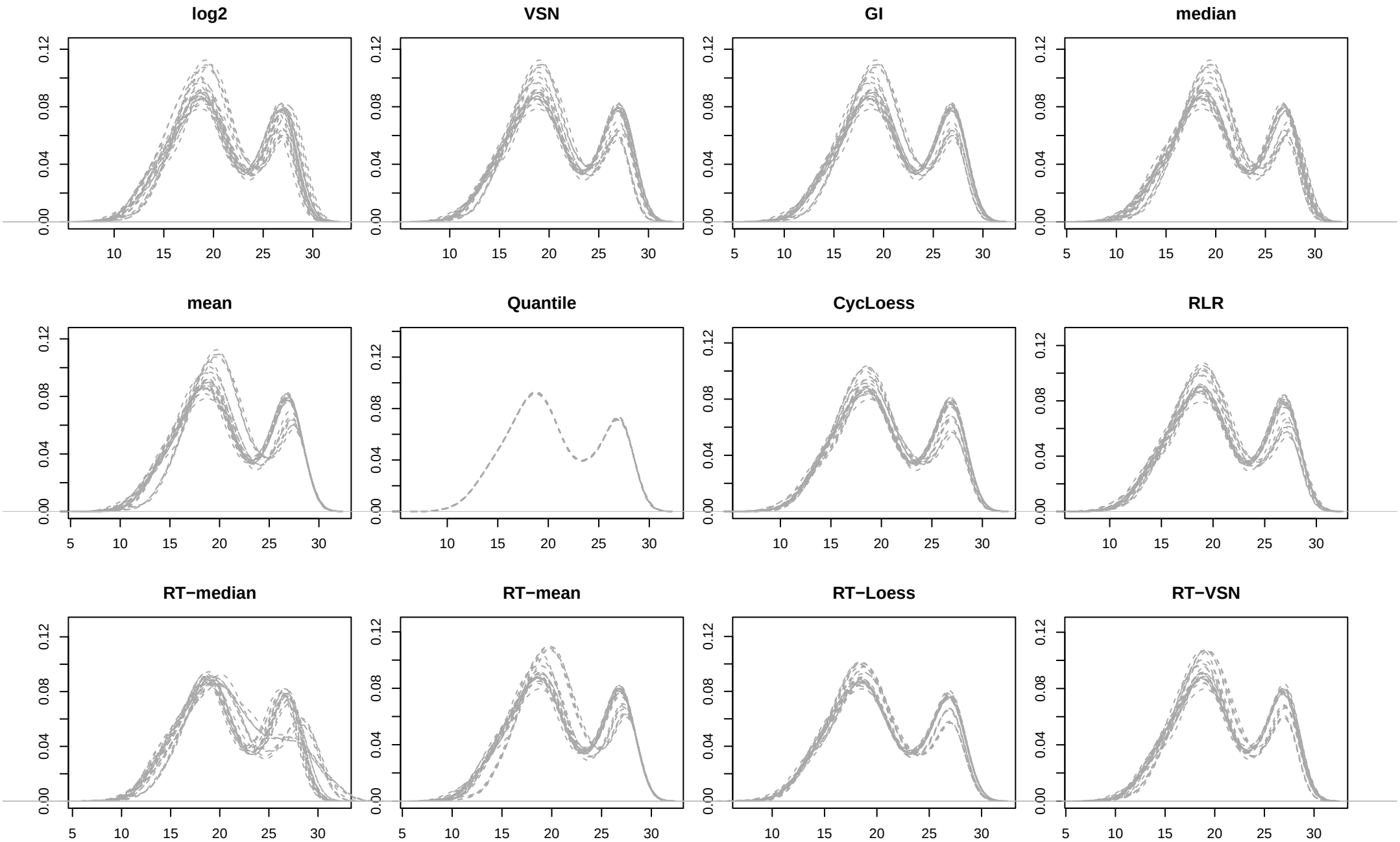


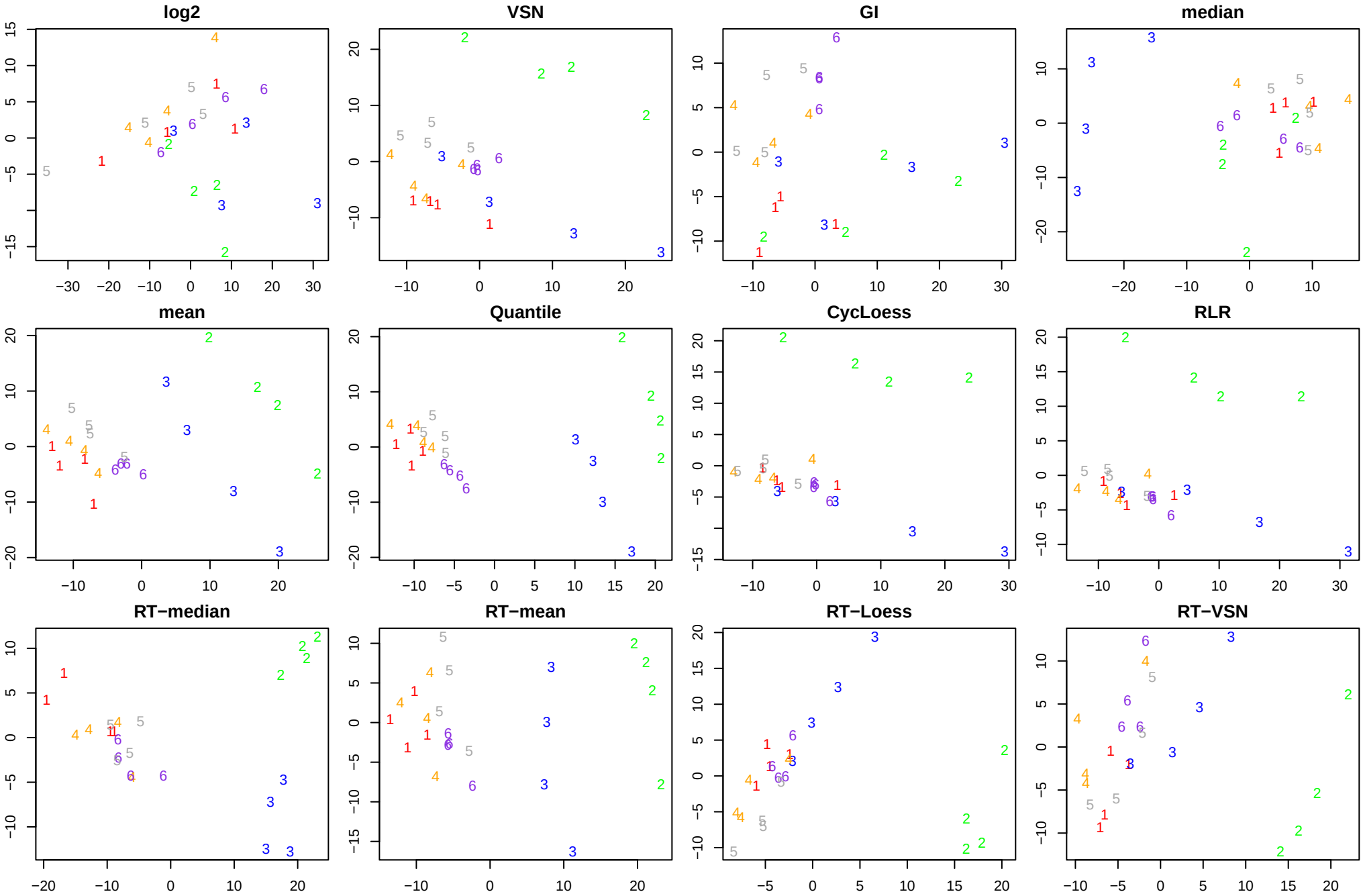
RT−VSN



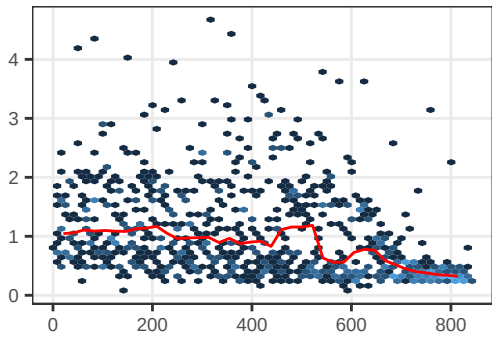

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN
35
30
25
20
15
10
DMSO_T000_
DMSO_T000_
DMSO_T000_
DMSO_T000_
DMSO_T060_
DMSO_T060_
DMSO_T060_
DMSO_T060_
DMSO_T240_
DMSO_T240_
DMSO_T240_
DMSO_T240_
MZB_T000_1
MZB_T000_2
MZB_T000_3
MZB_T000_4
MZB_T060_1
MZB_T060_2
MZB_T060_3
MZB_T060_4
MZB_T240_1
MZB_T240_2
MZB_T240_3
MZB_T240_4


log2
VSN
GI
median
mean
Quantile
Cyclicloess
RLR
RT~median
RT~mean
RT~Loess
RT~VSN

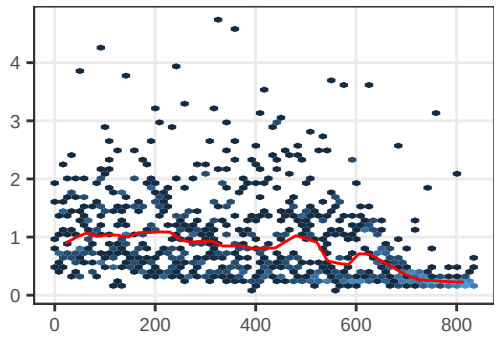

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN
0.00
0.04
0.08
0.12


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN

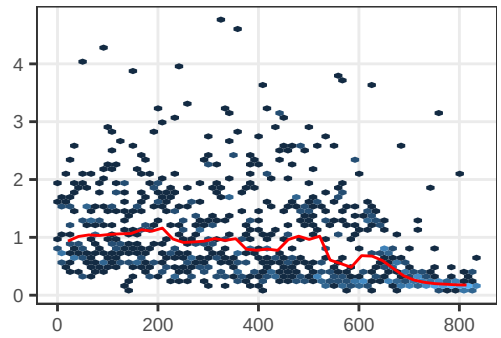
log2



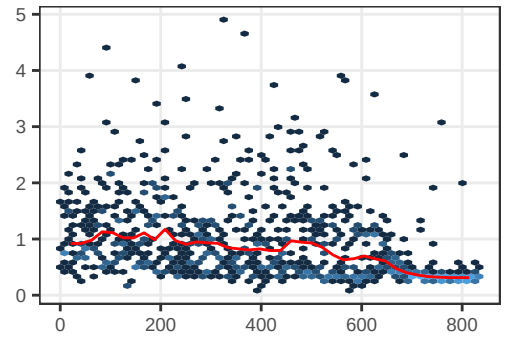
VSN



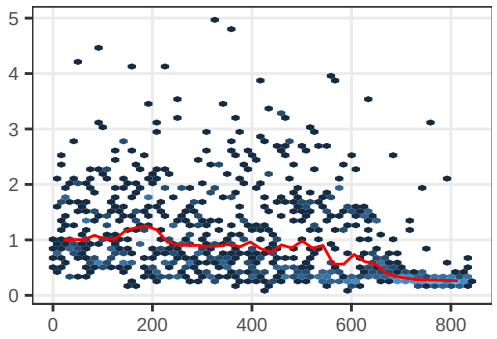
GI



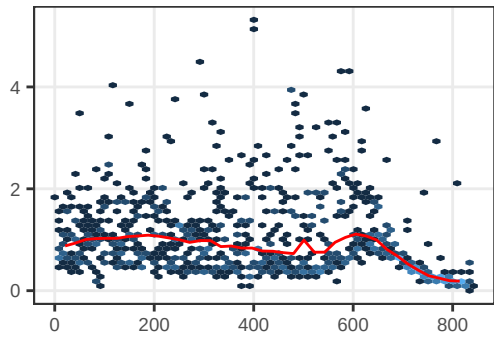
median



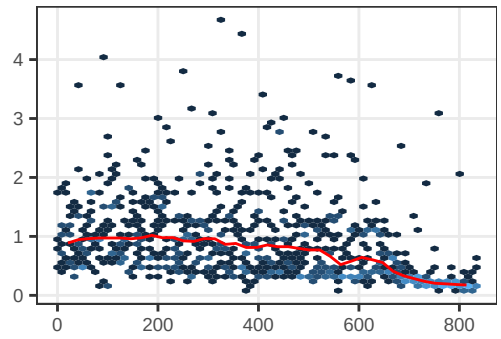
mean



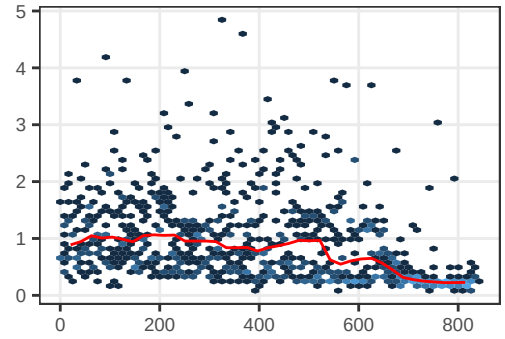
Quantile



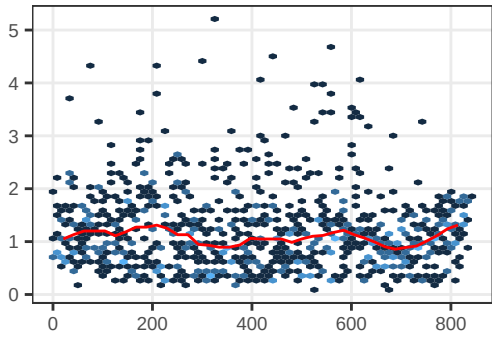
CycLoess



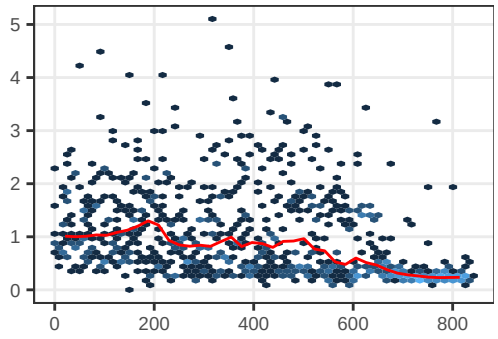
RLR



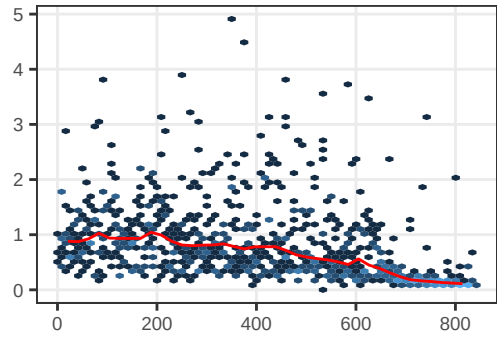
RT−median



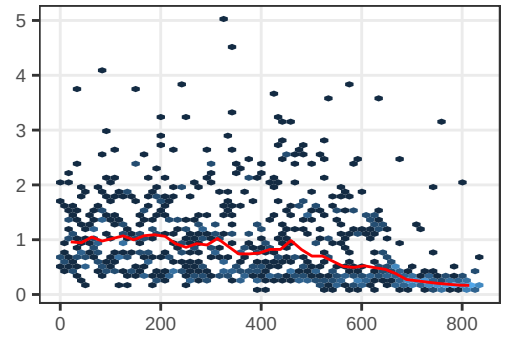
RT−mean

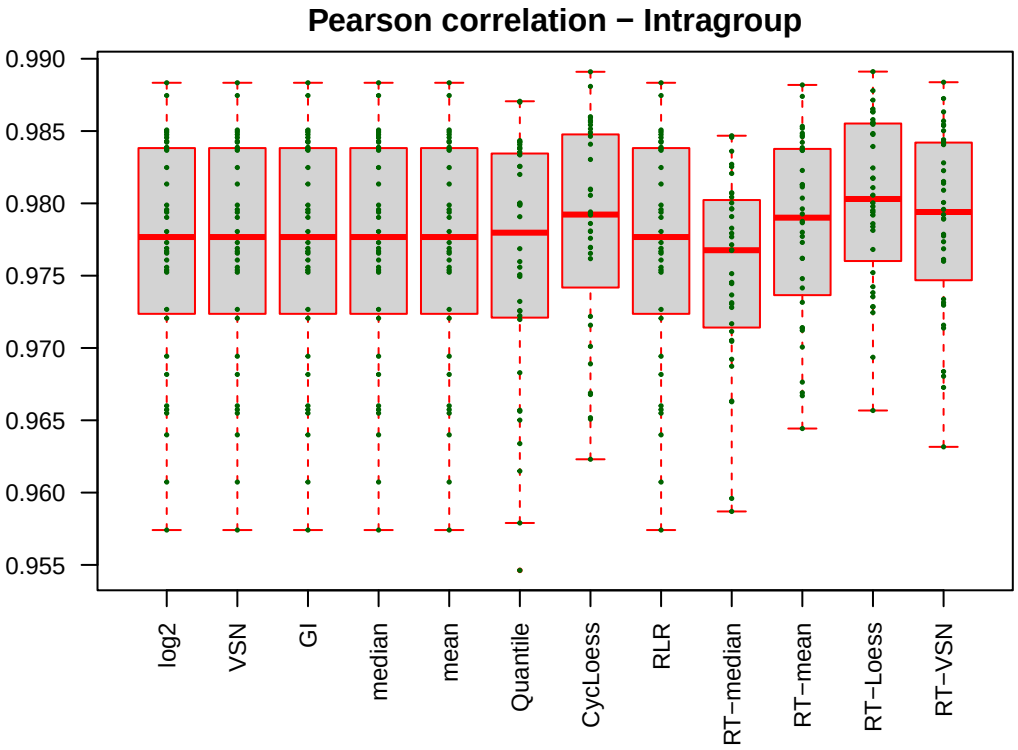


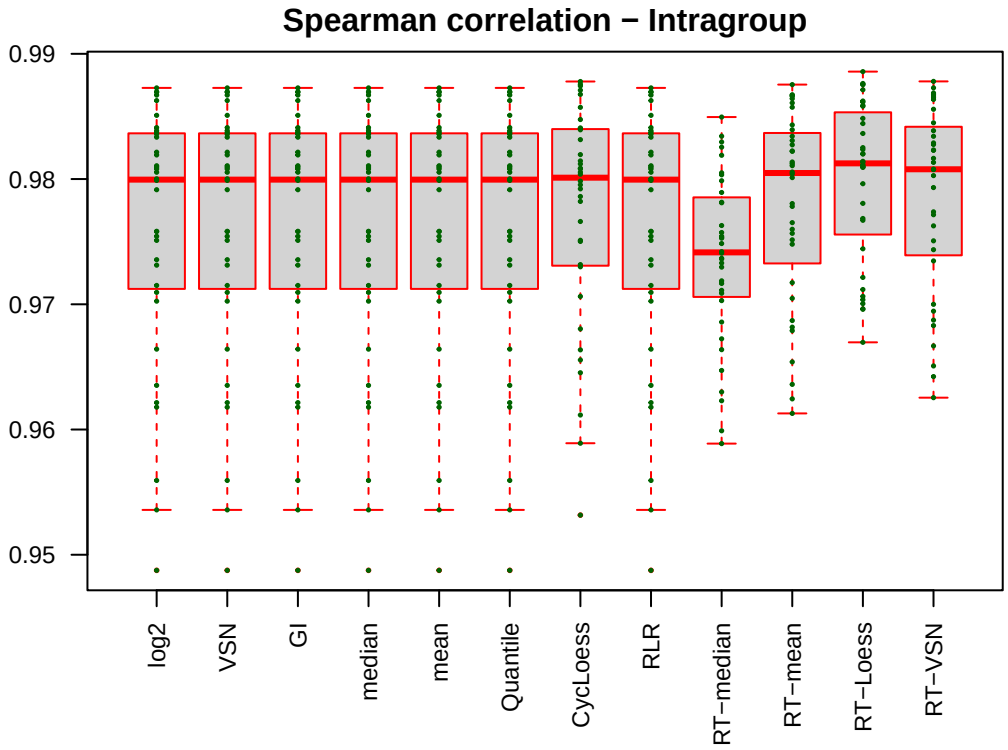
RT−Loess

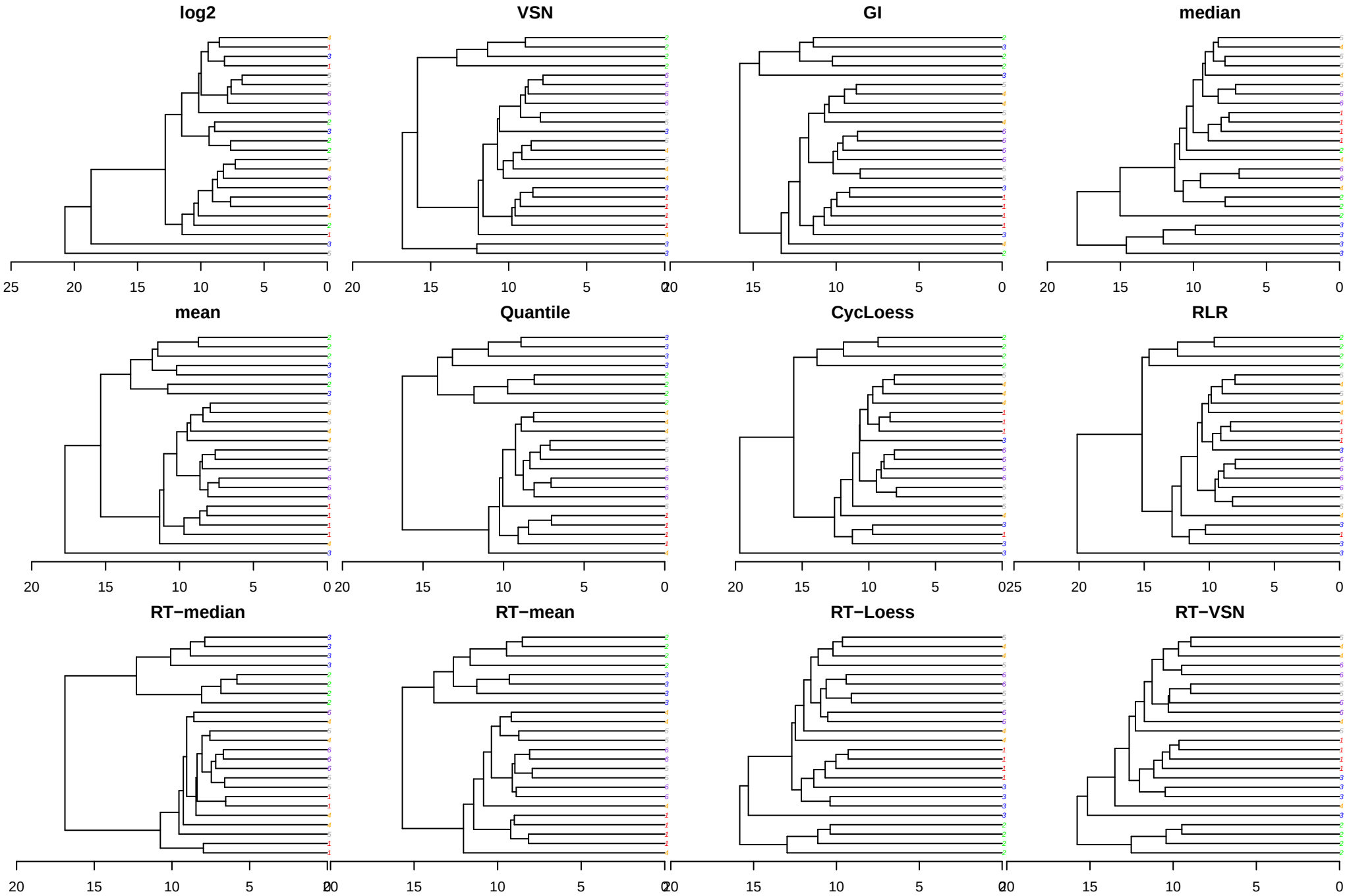


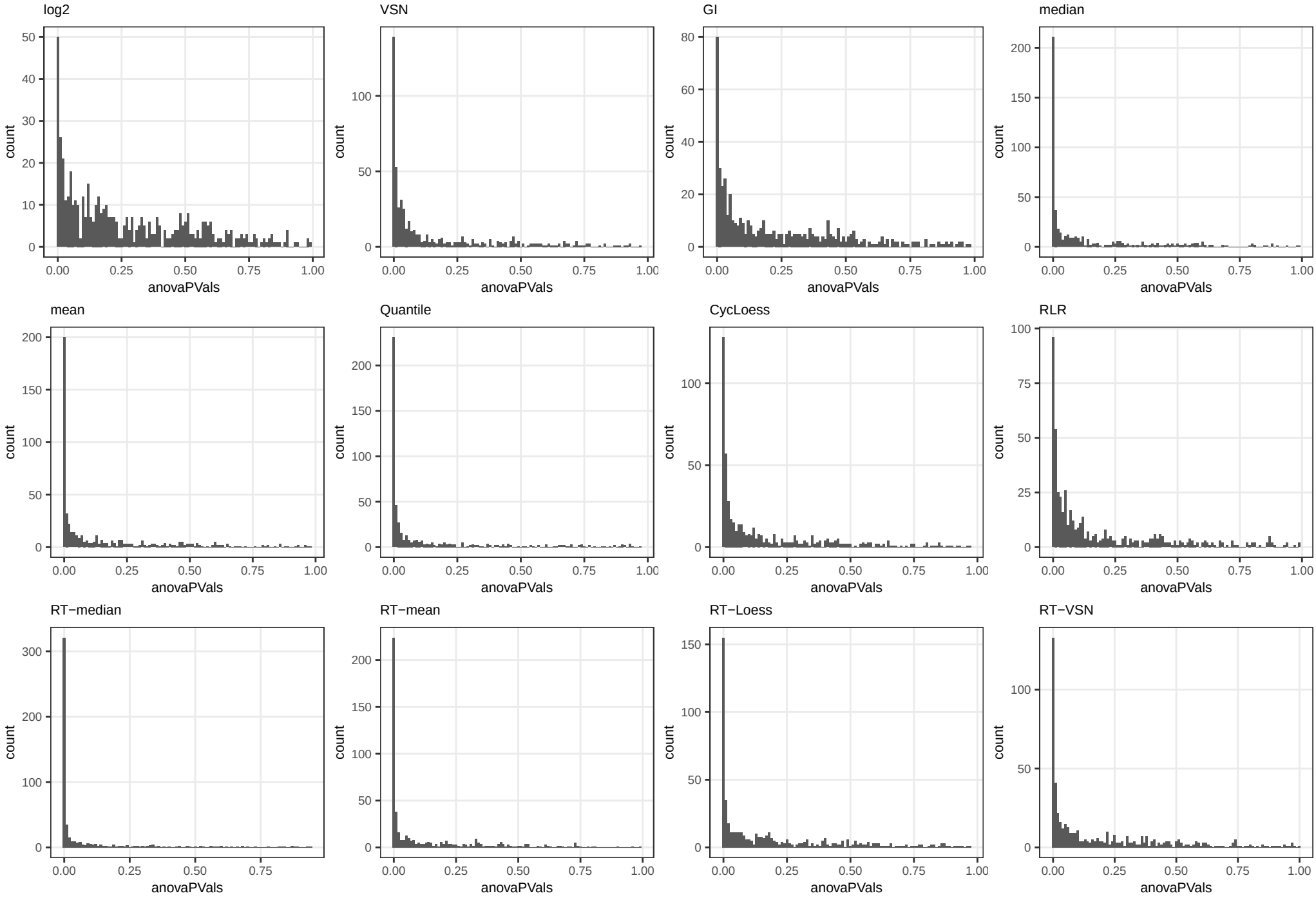
RT−VSN




Pearson correlation − Intragroup
0.990
0.985
0.980
0.975
0.970
0.965
0.960
0.955
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN


Spearman correlation − Intragroup
0.99
0.98
0.97
0.96
0.95
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
RT−median
RT−mean
RT−Loess
RT−VSN
count
anovaPVals