

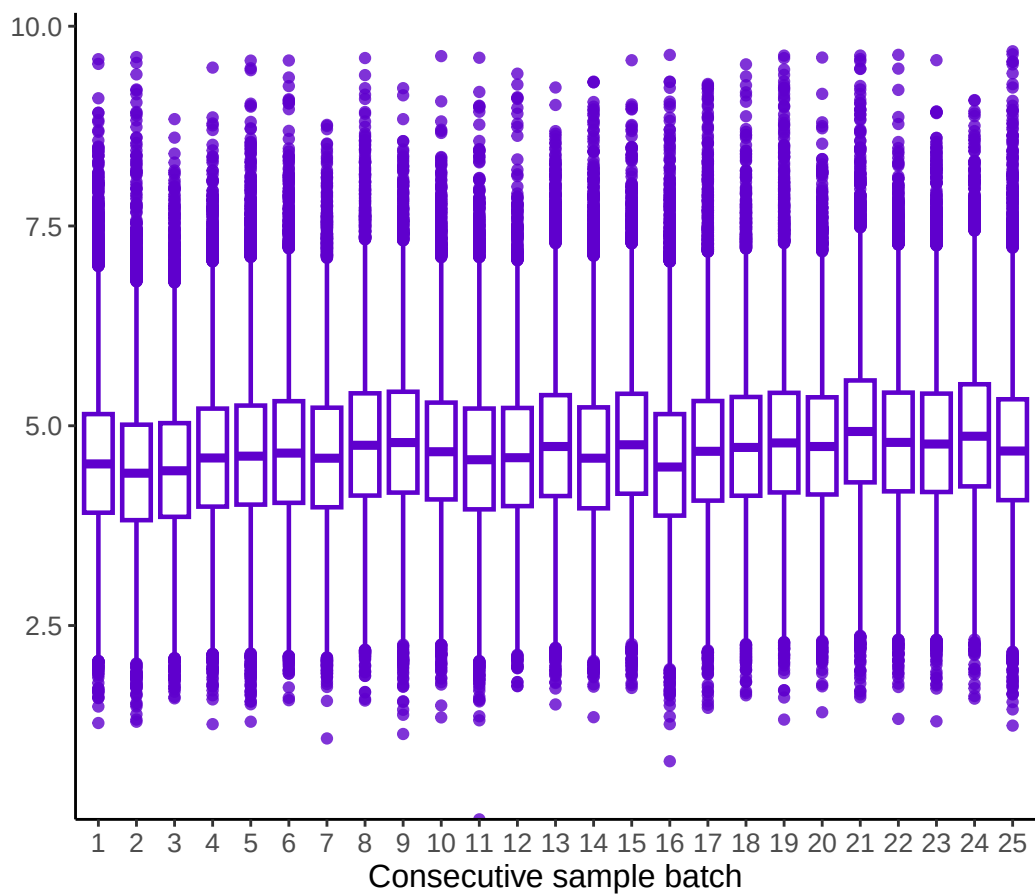
Distributions per consecutive sample batch (phase 1, 2 and 3)

Outliers $4 \times$ IQR from median removed

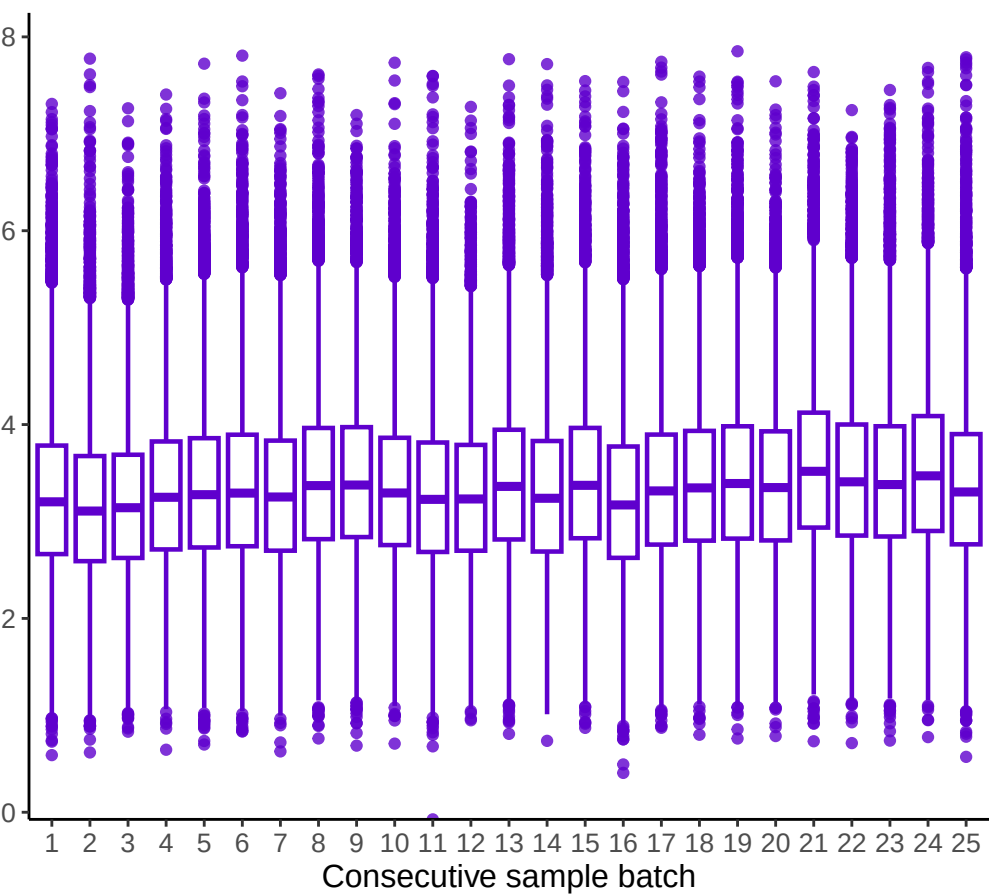
Nightingale Health Plc.

Cholesterol

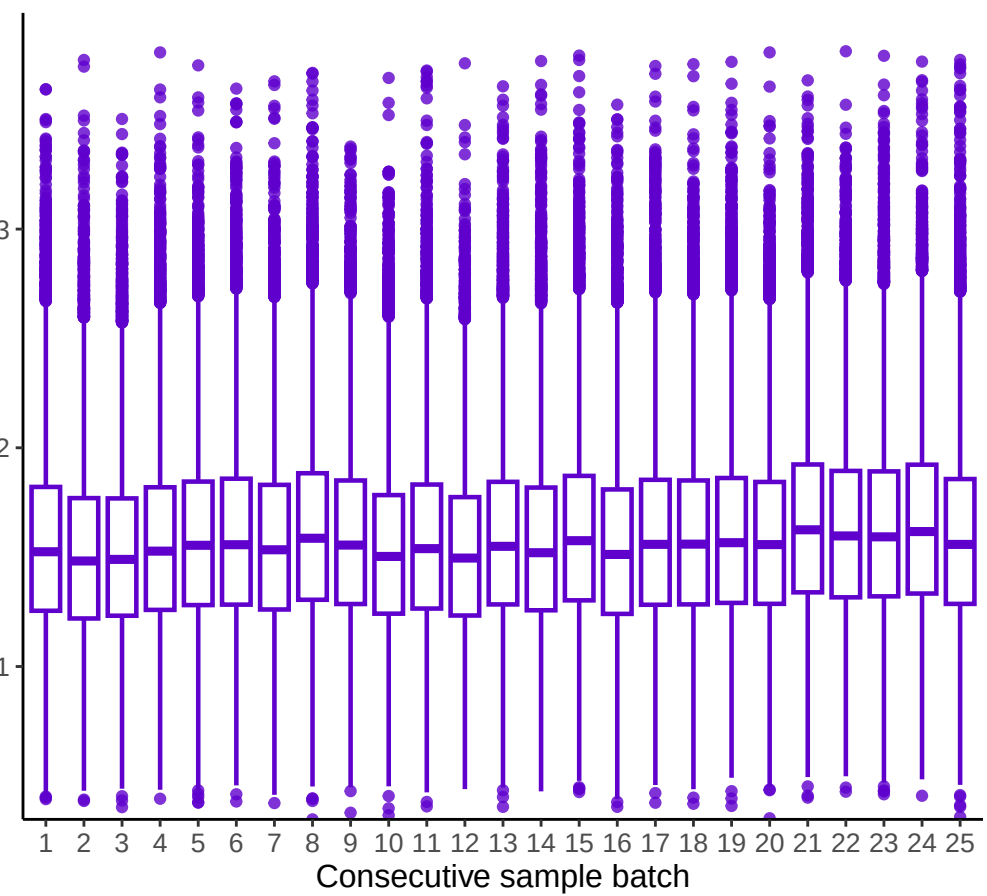
Total_C



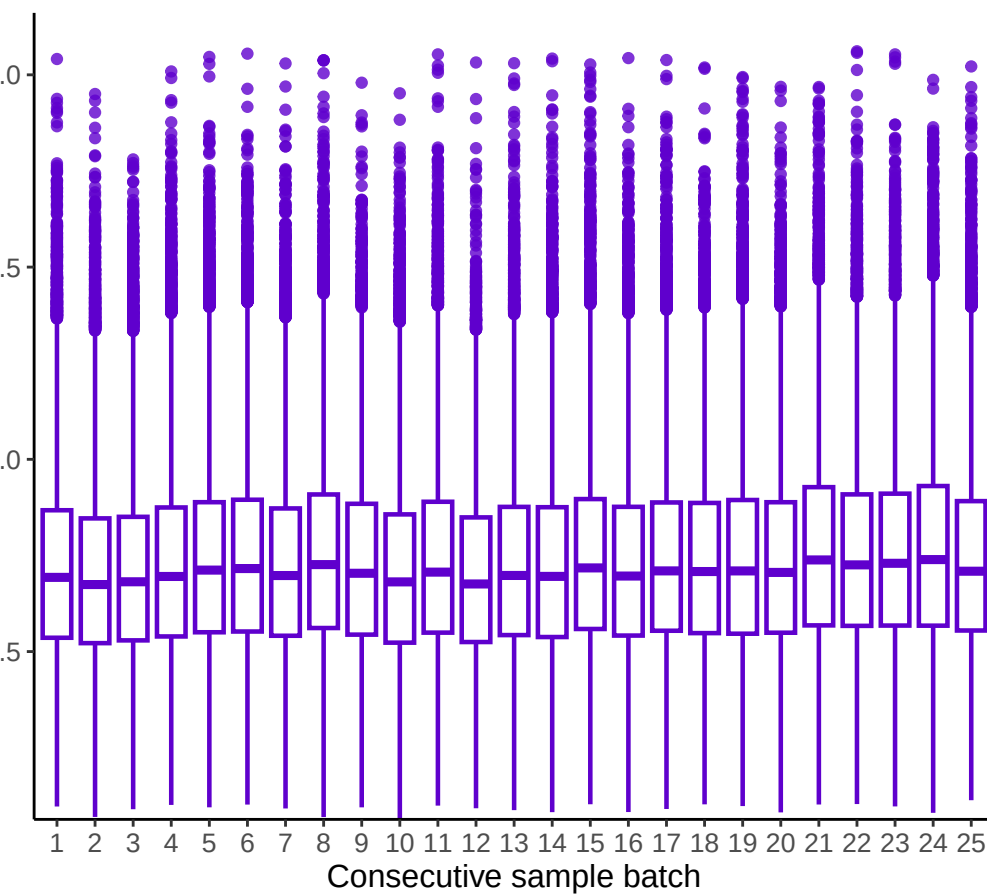
non_HDL_C



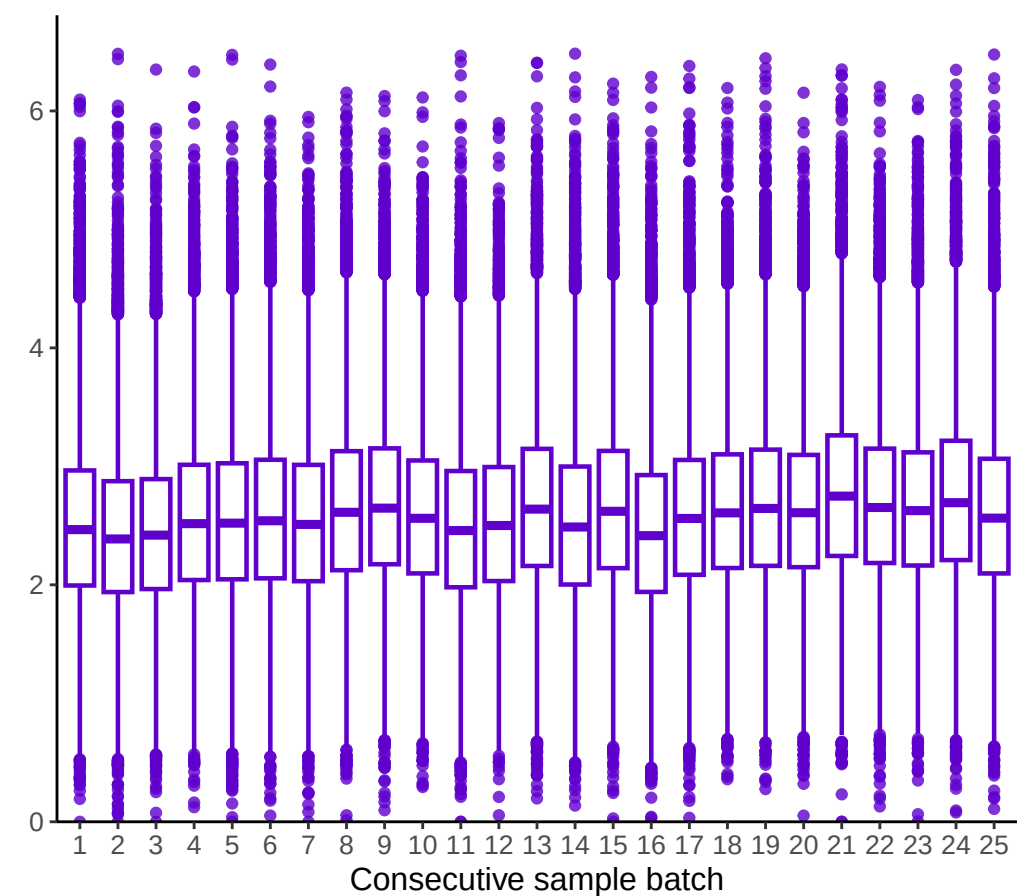
Remnant_C



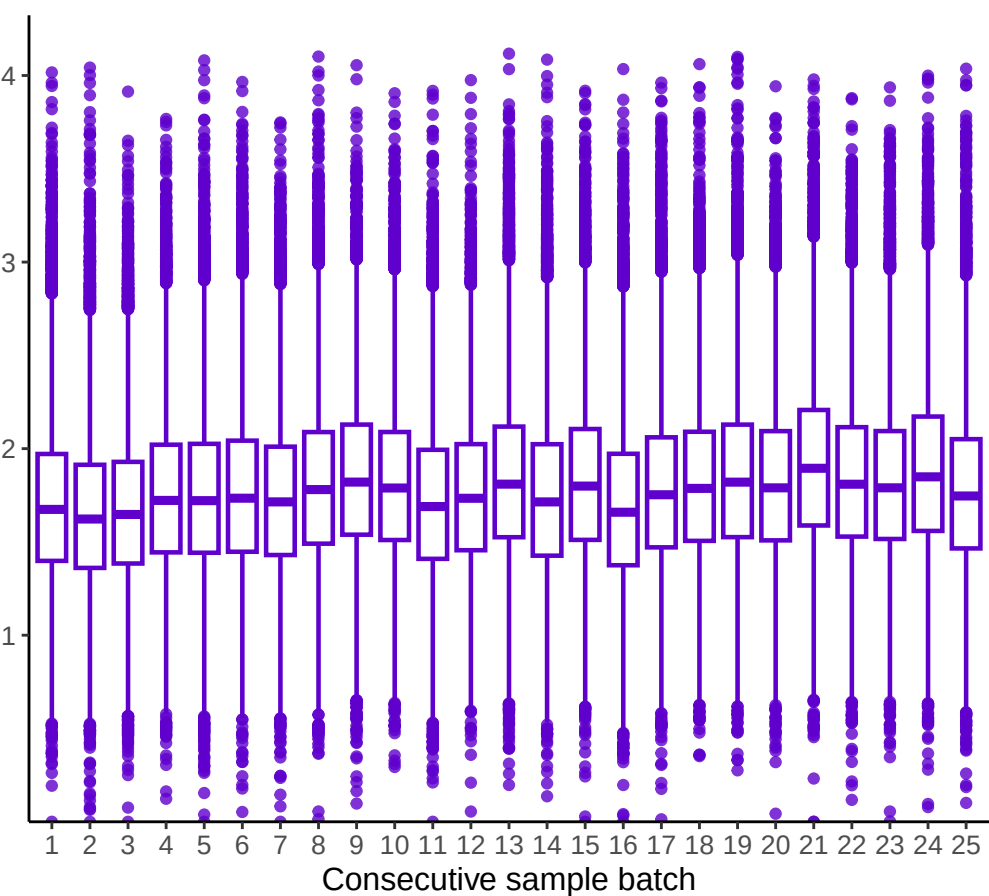
VLDL_C



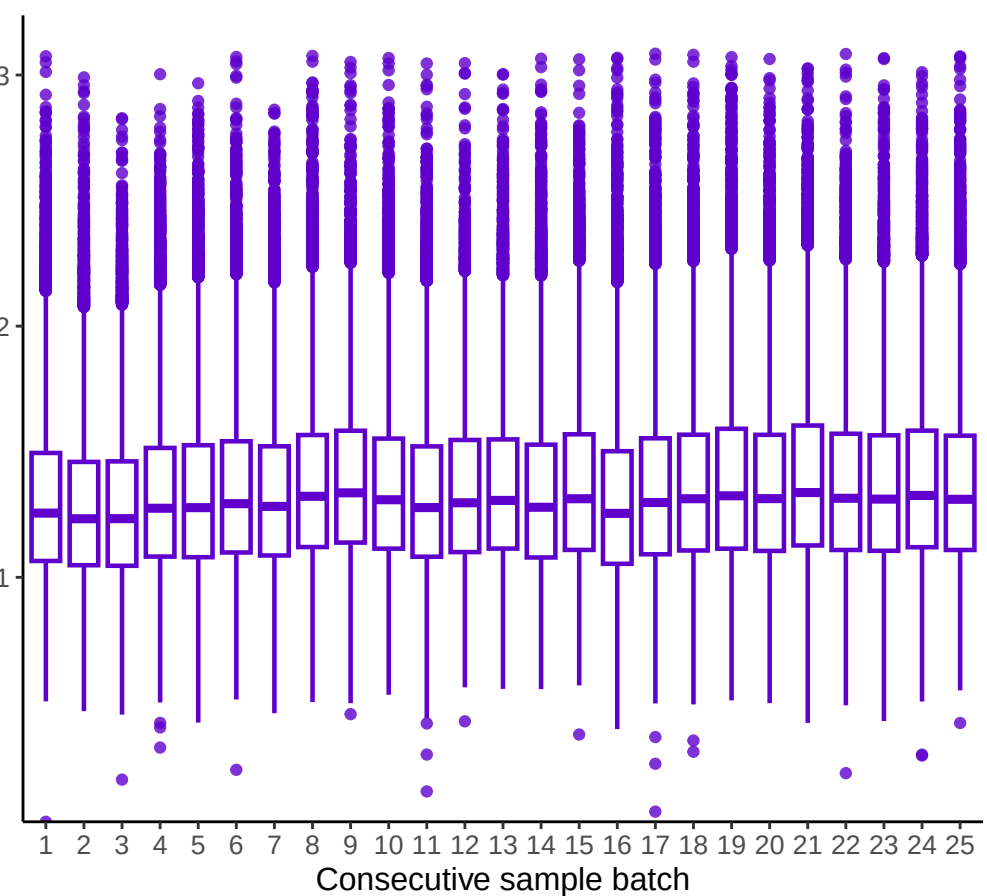
Clinical_LDL_C



LDL_C

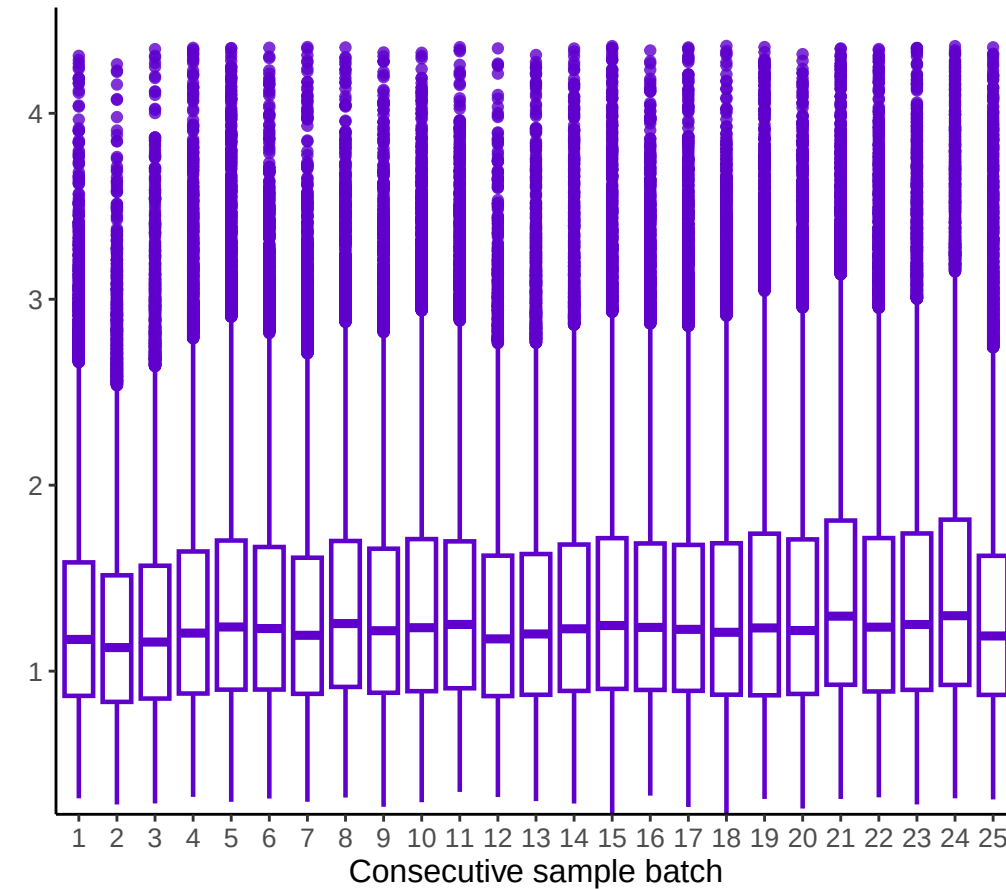


HDL_C

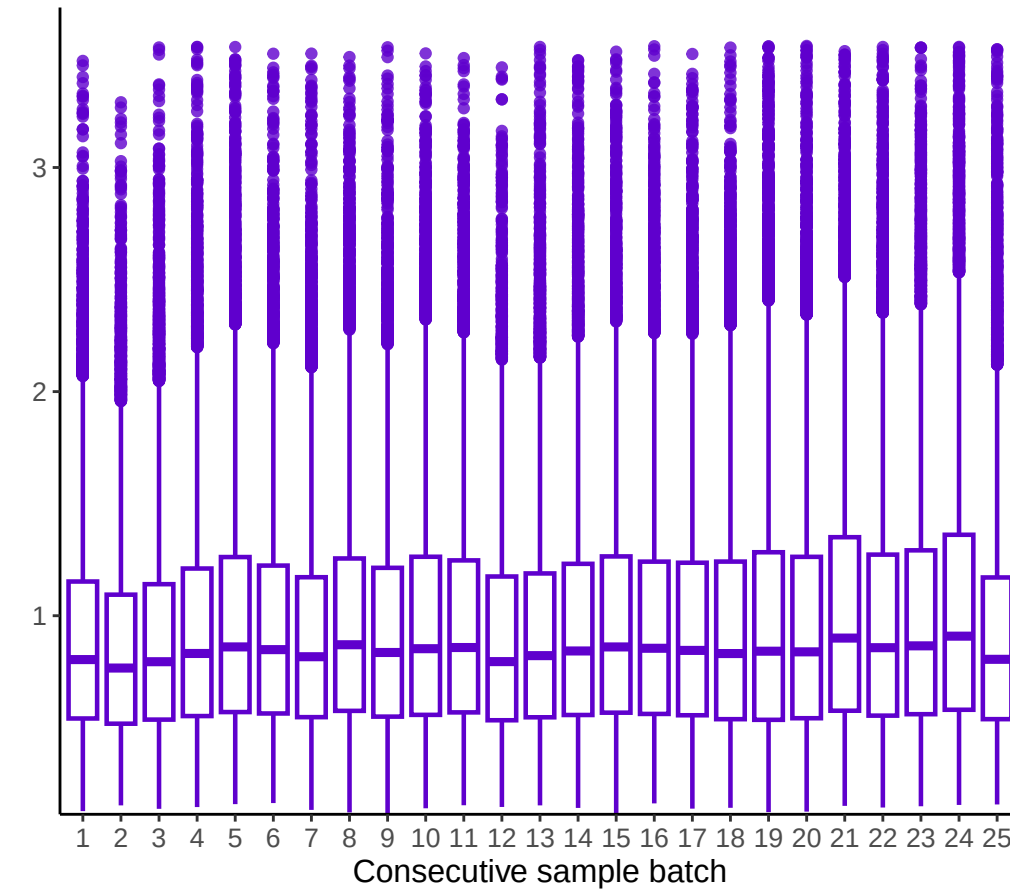


Triglycerides

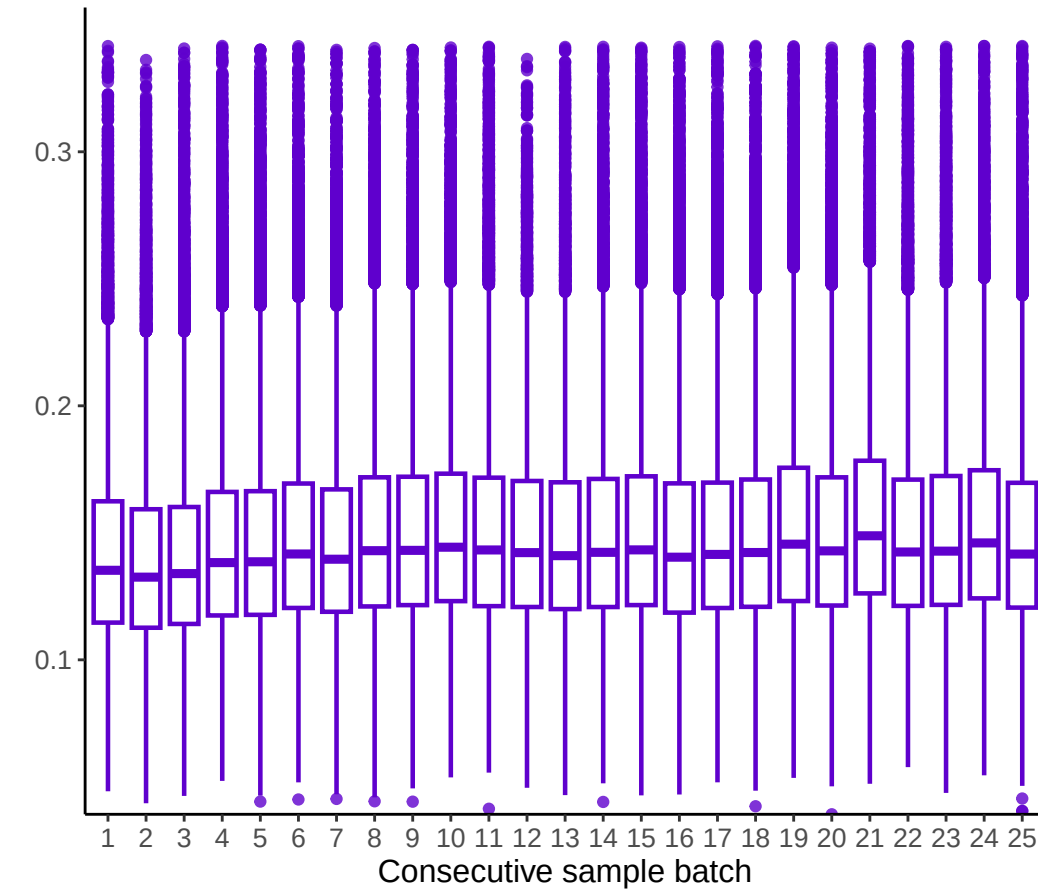
Total_TG



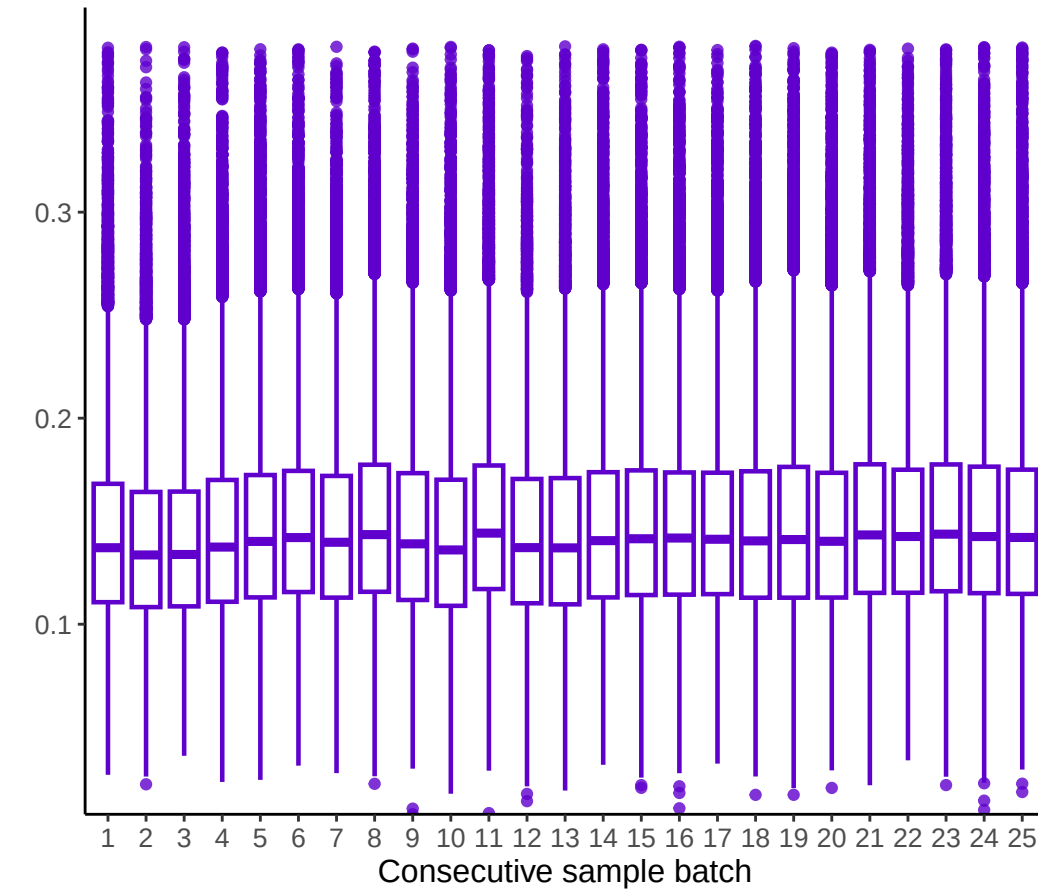
VLDL_TG



LDL_TG

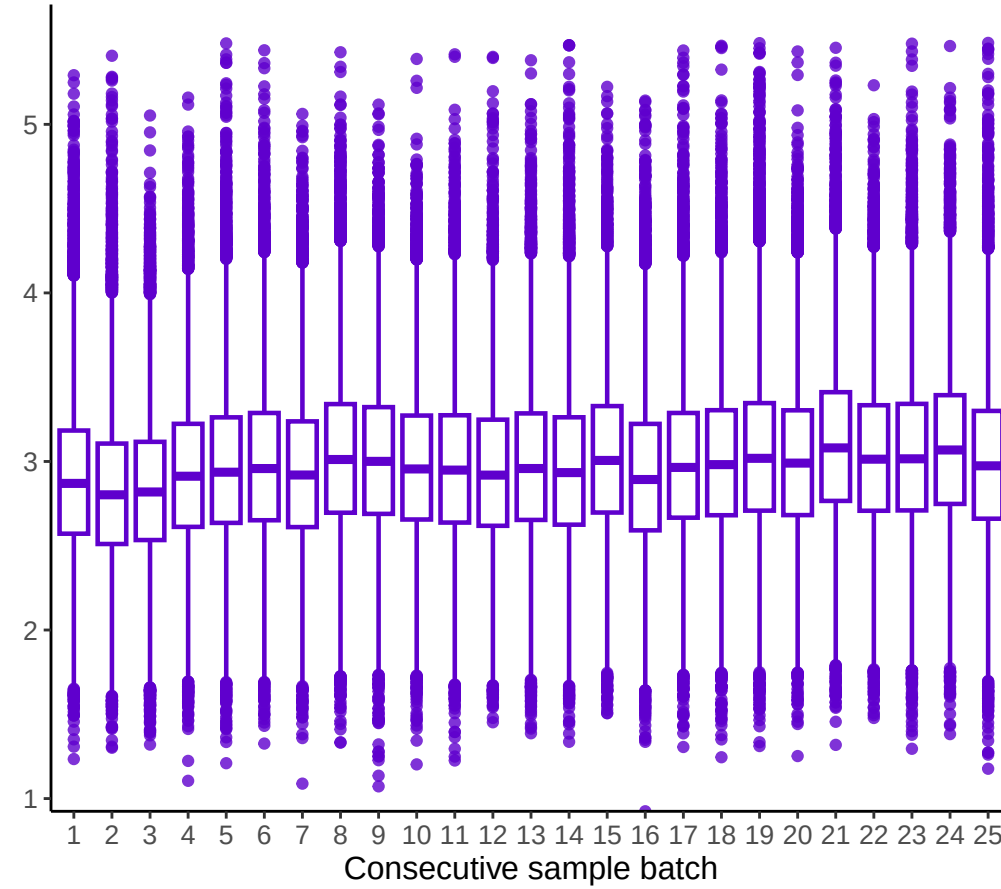


HDL_TG

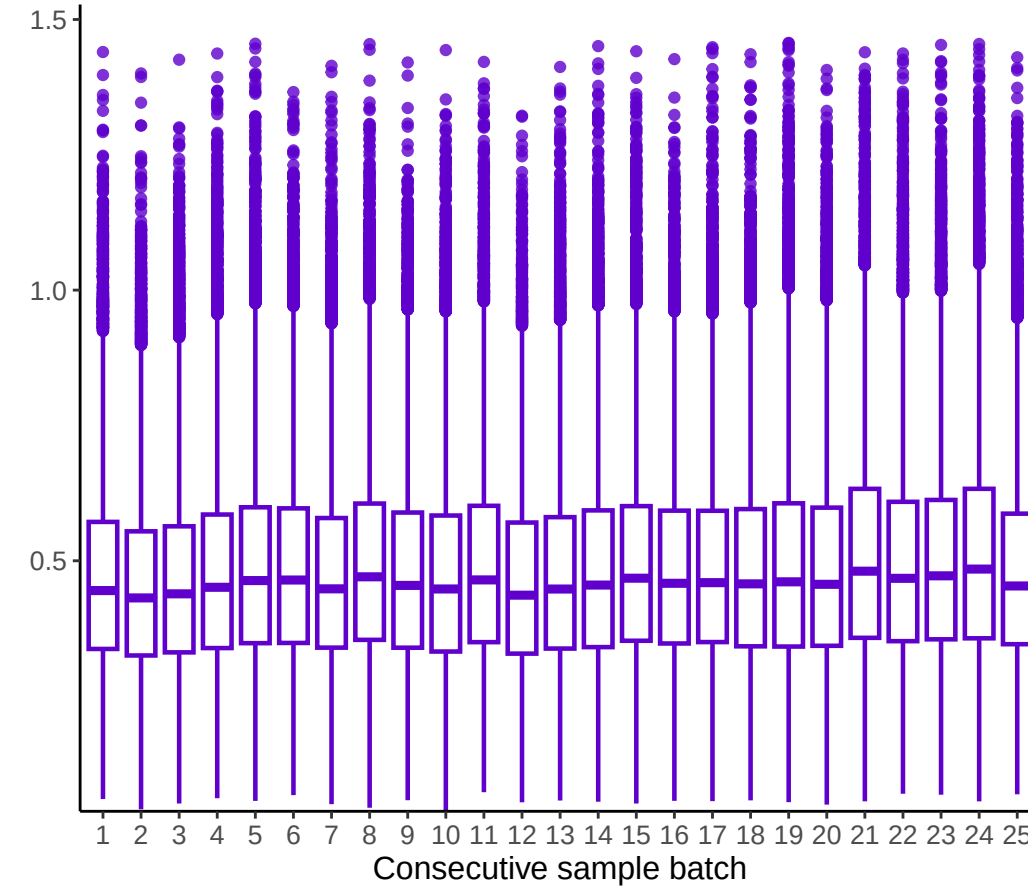


Phospholipids

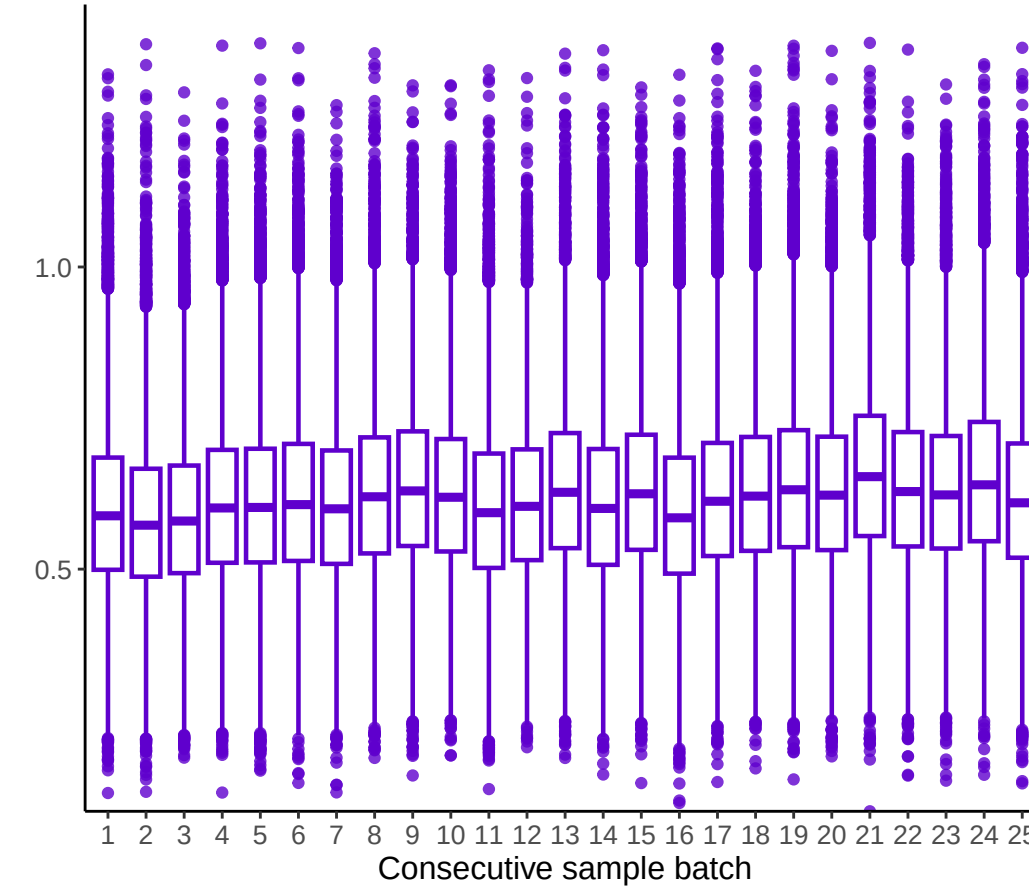
Total_PL



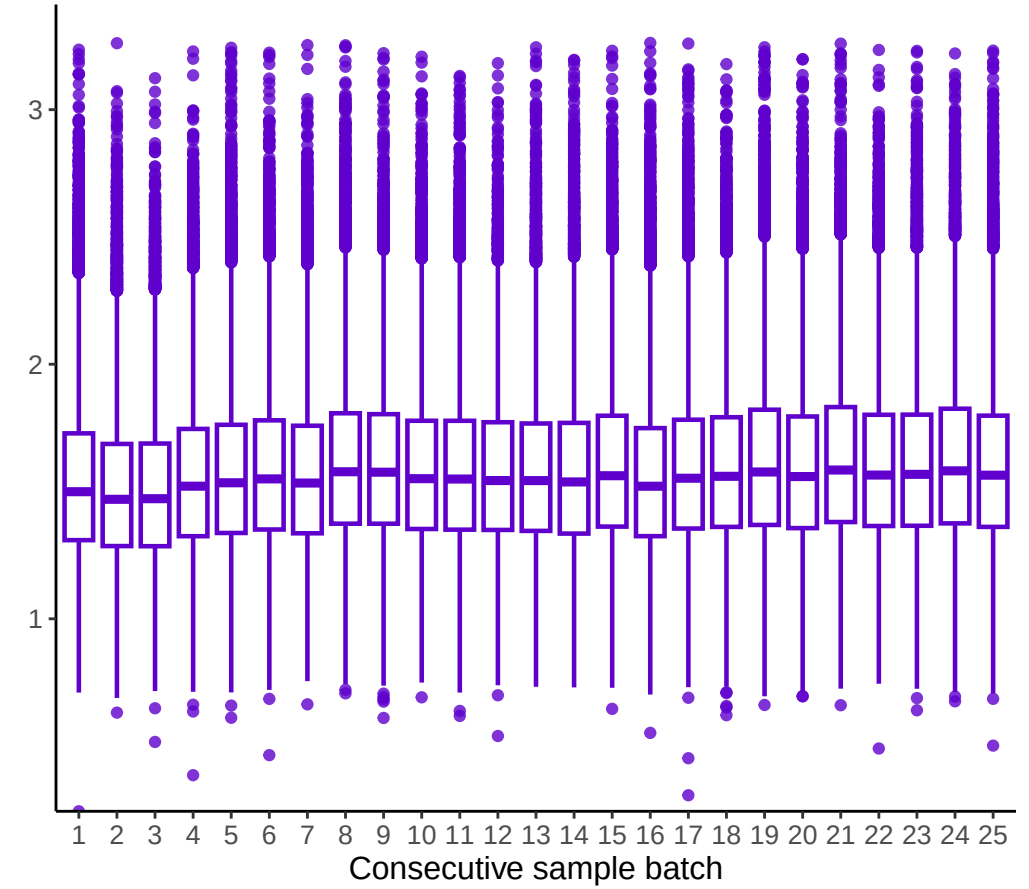
VLDL_PL



LDL_PL

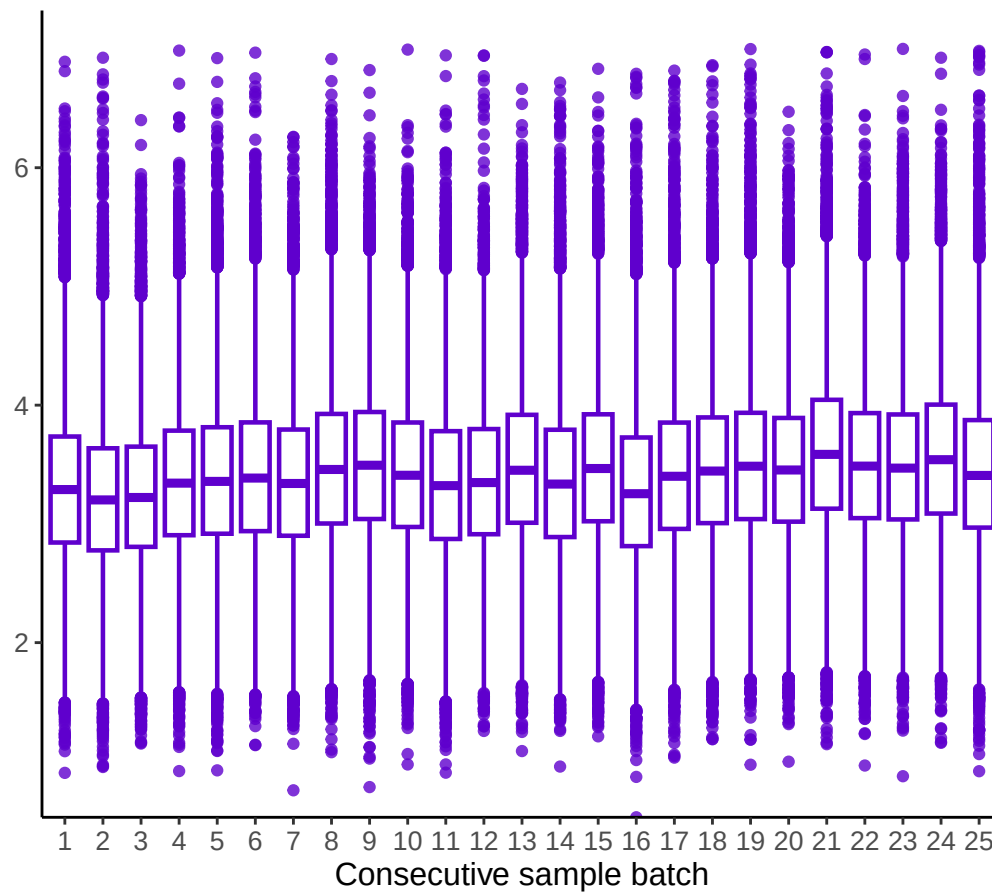


HDL_PL

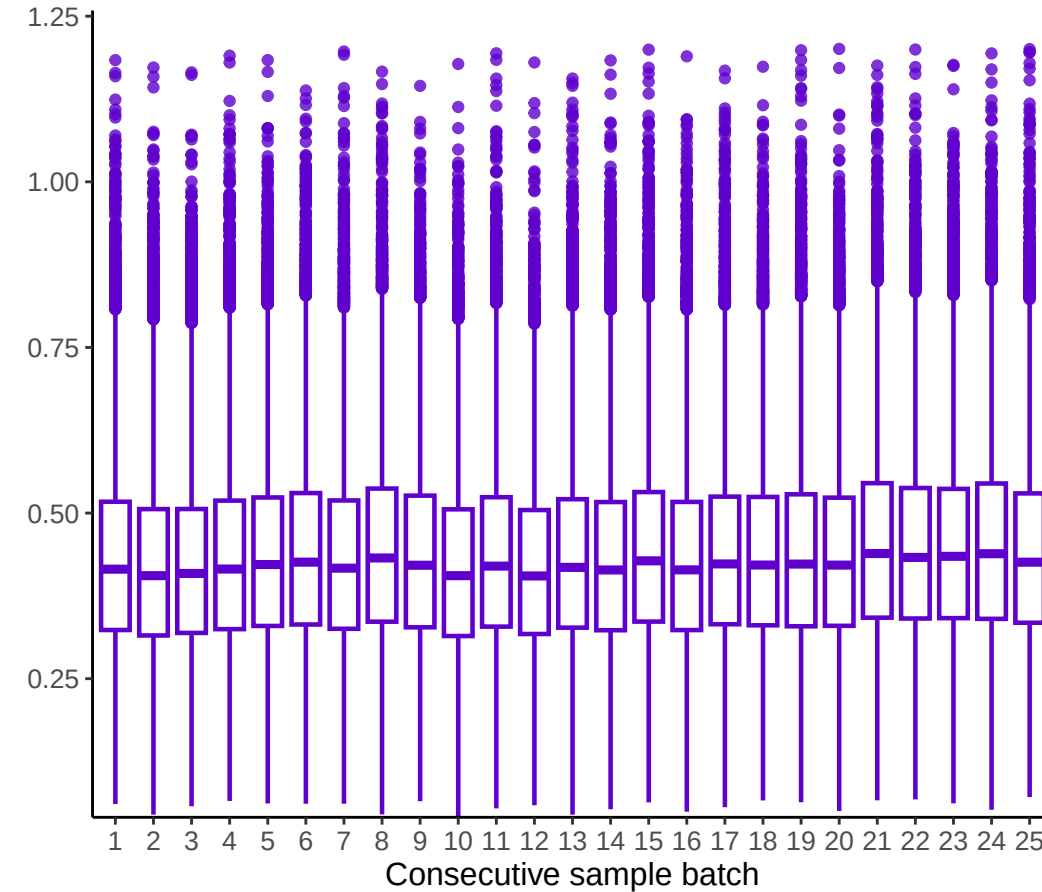


Cholesteryl esters

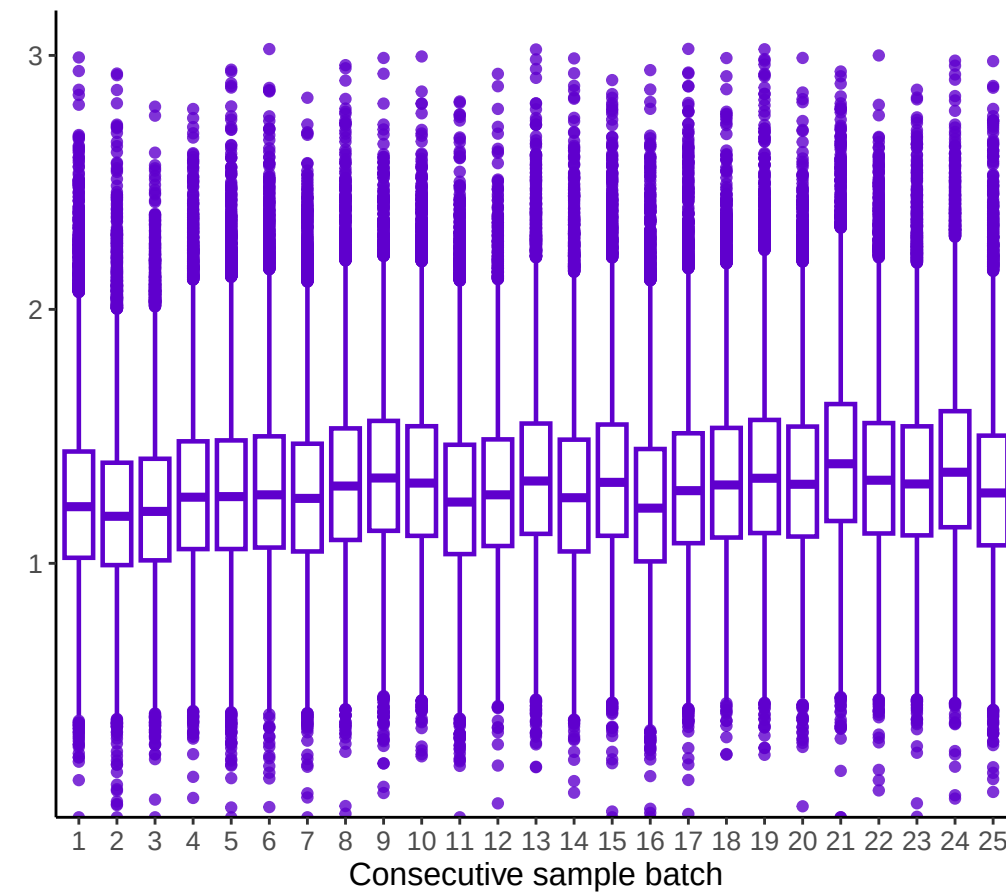
Total_CE



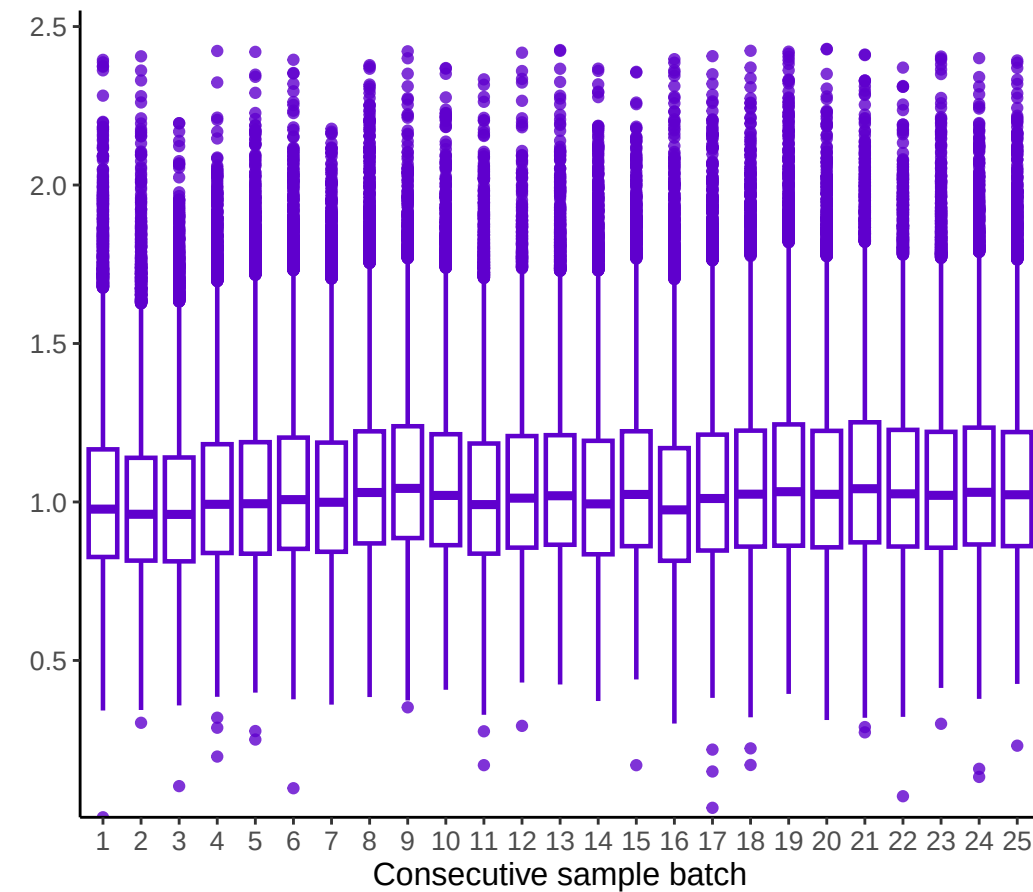
VLDL_CE



LDL_CE

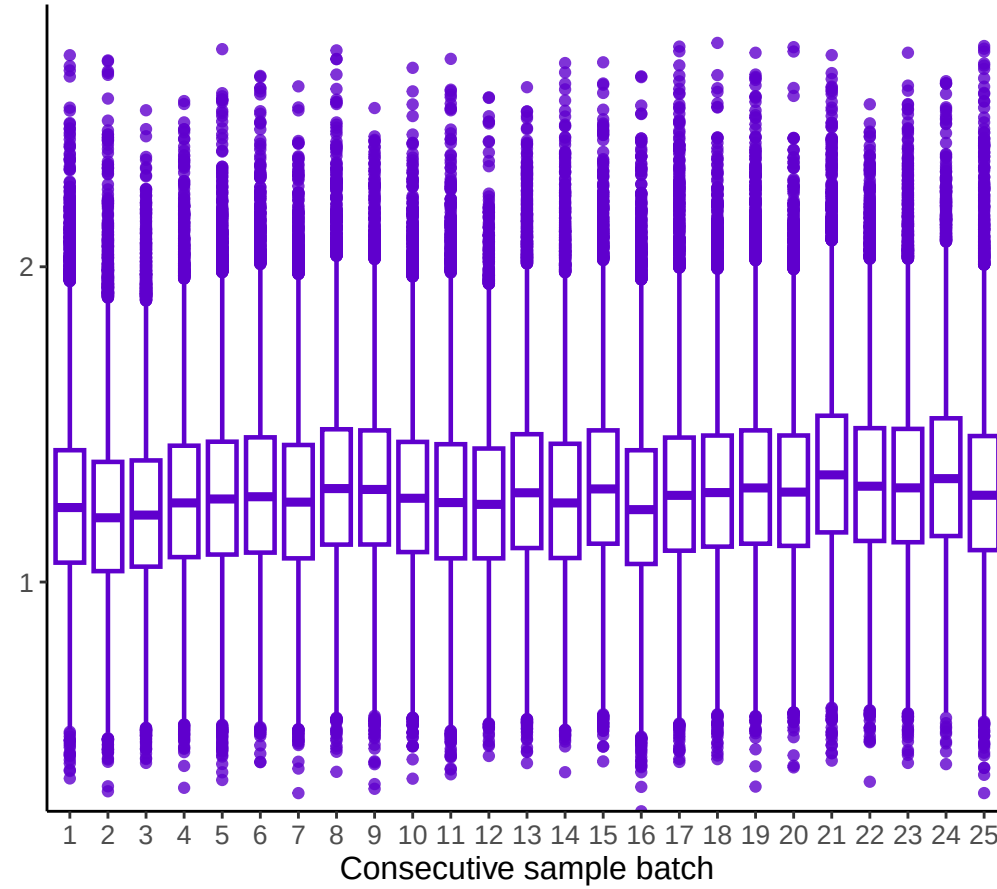


HDL_CE

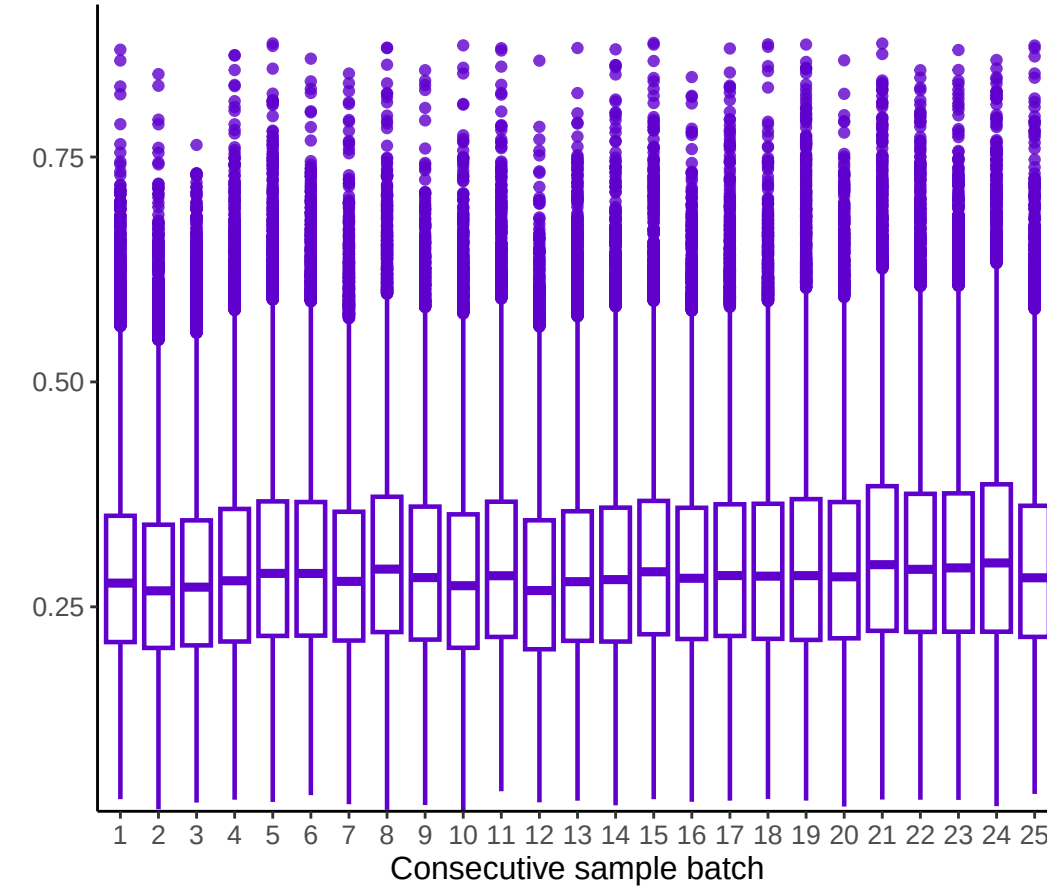


Free cholesterol

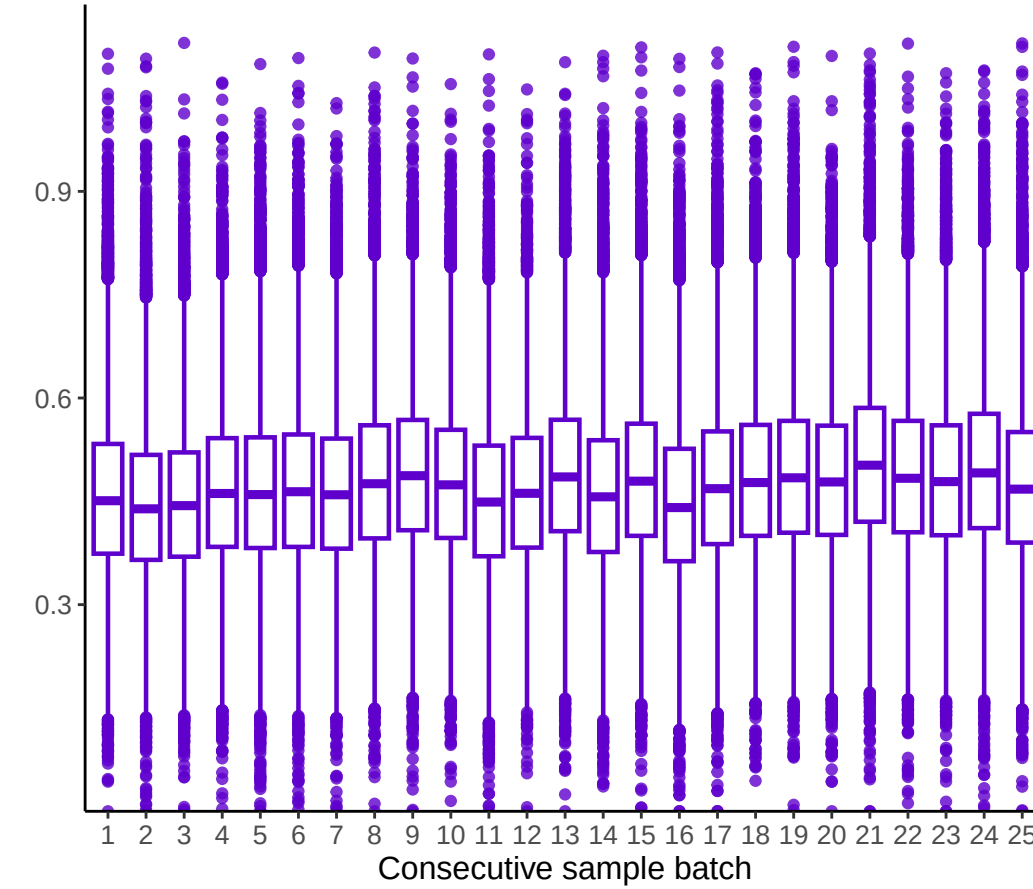
Total_FC



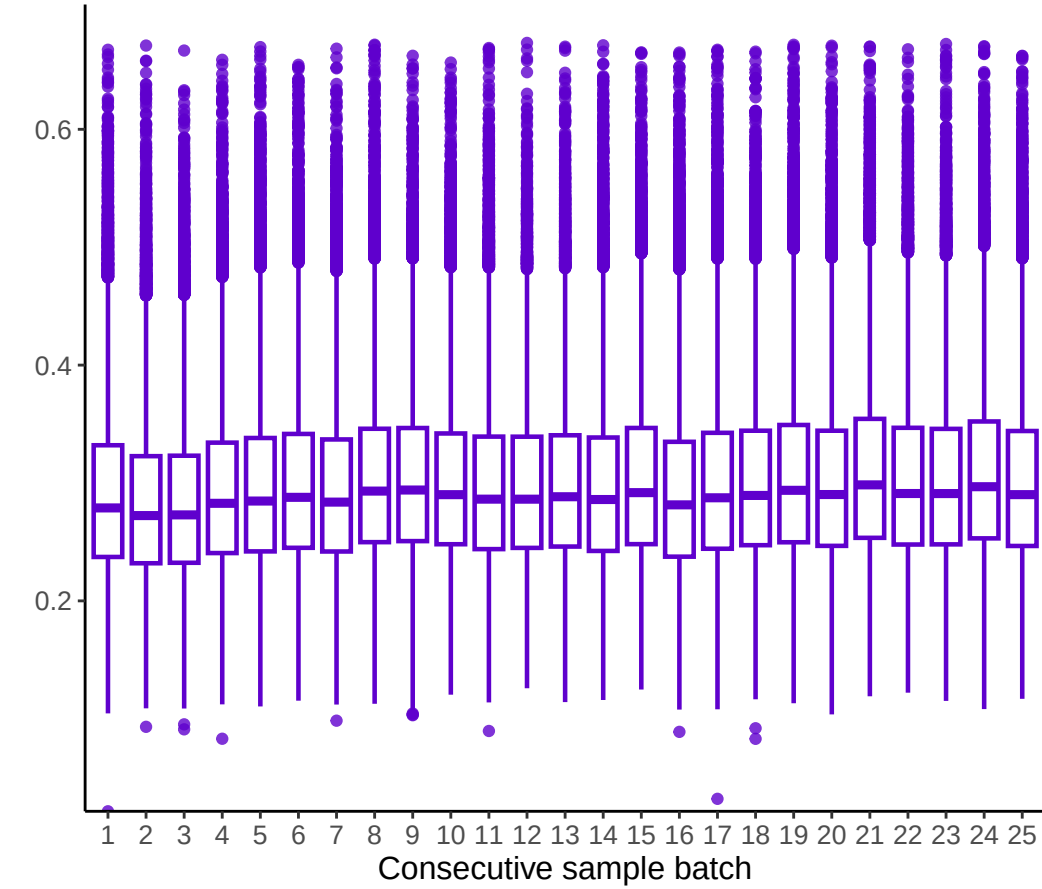
VLDL_FC



LDL_FC

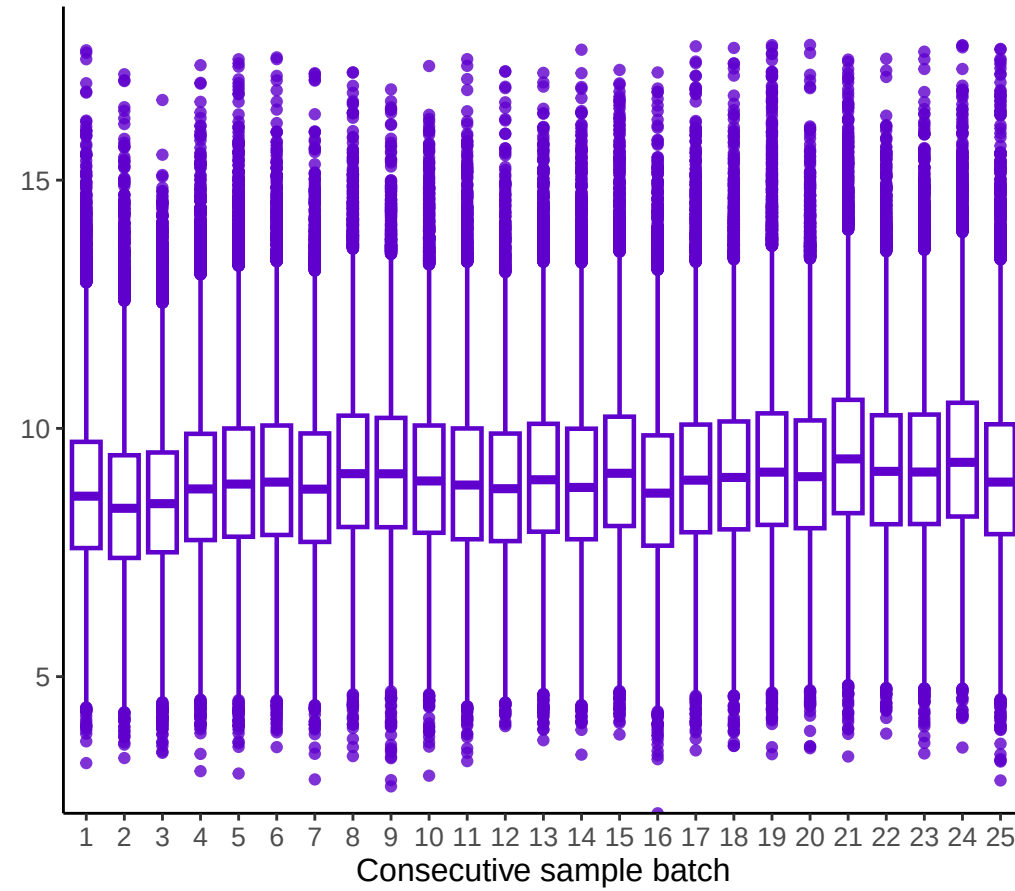


HDL_FC

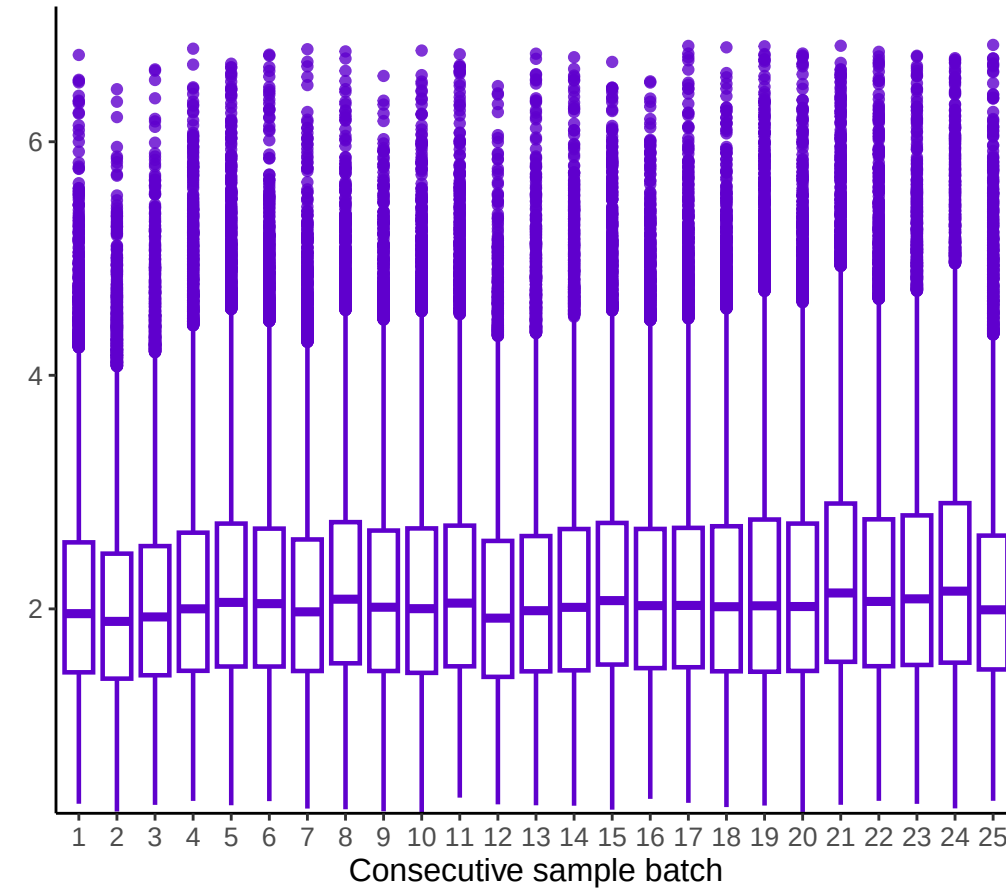


Total lipids

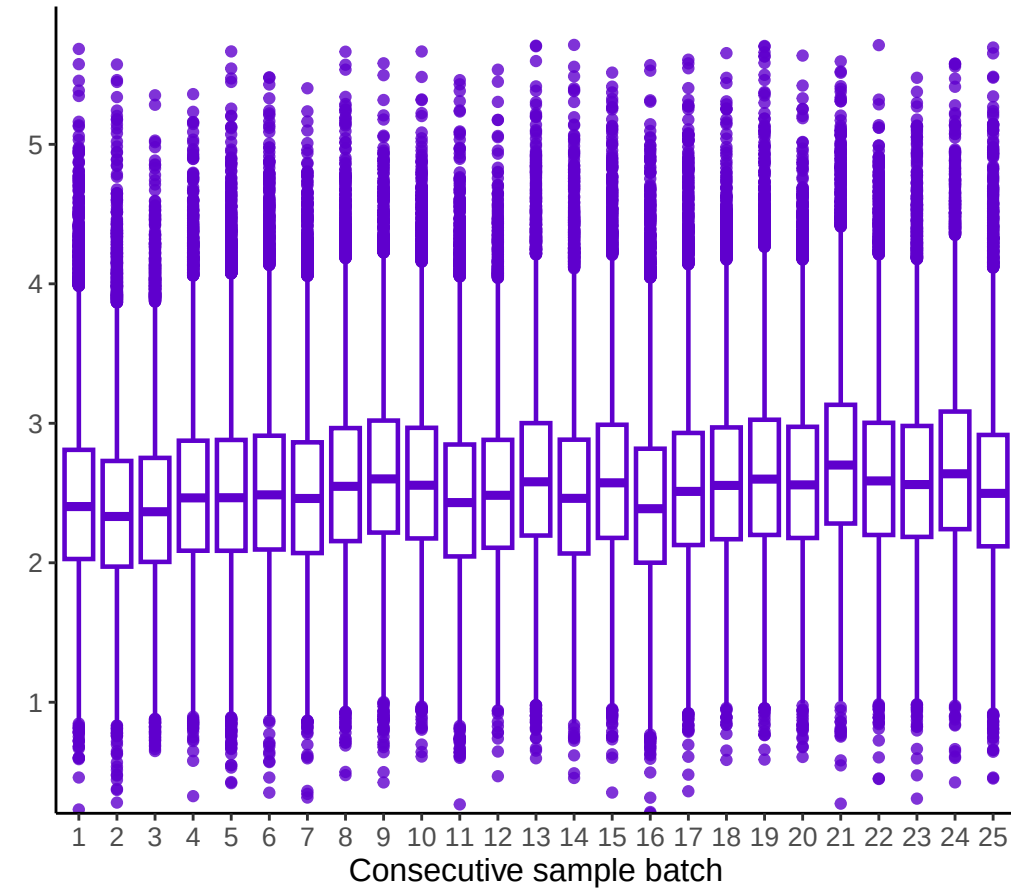
Total_L



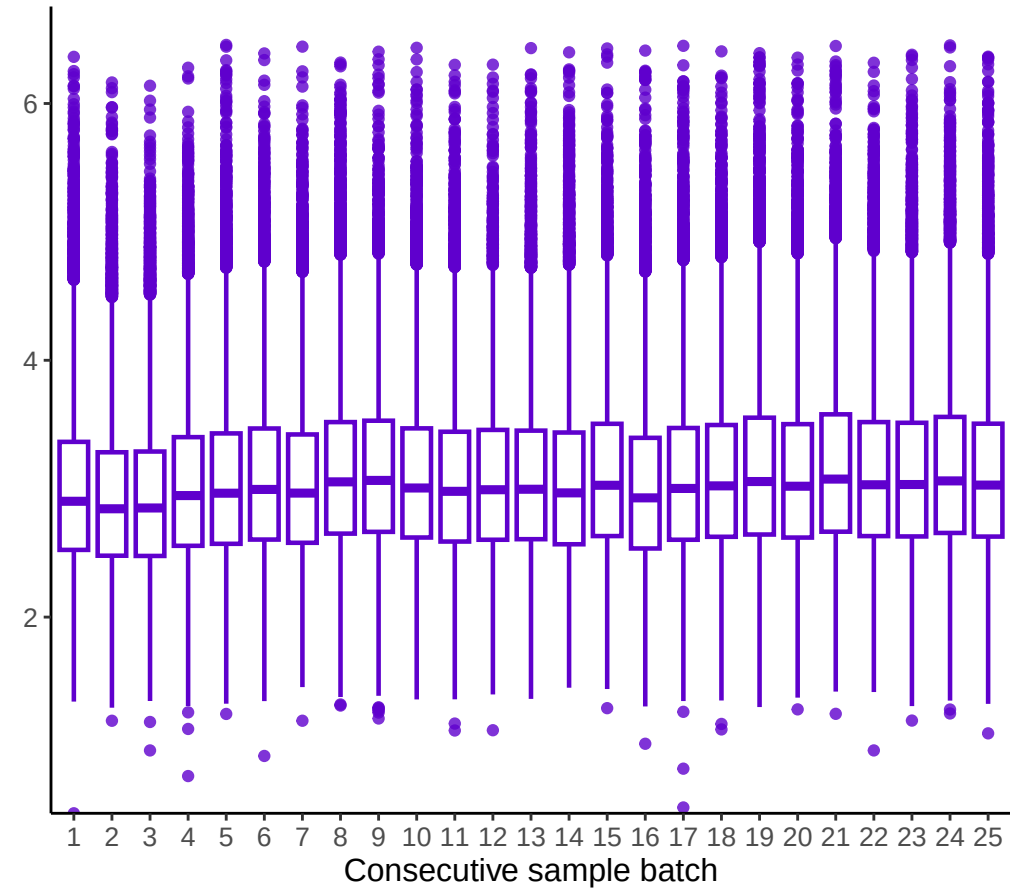
VLDL_L



LDL_L

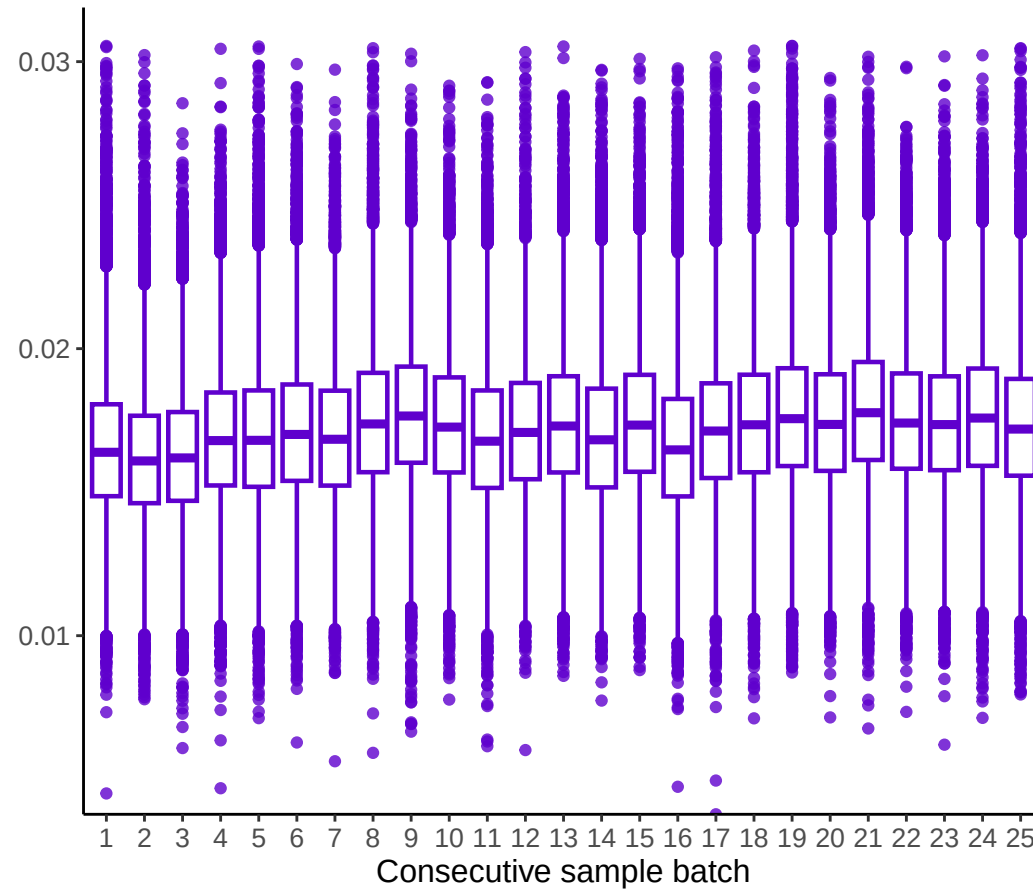


HDL_L

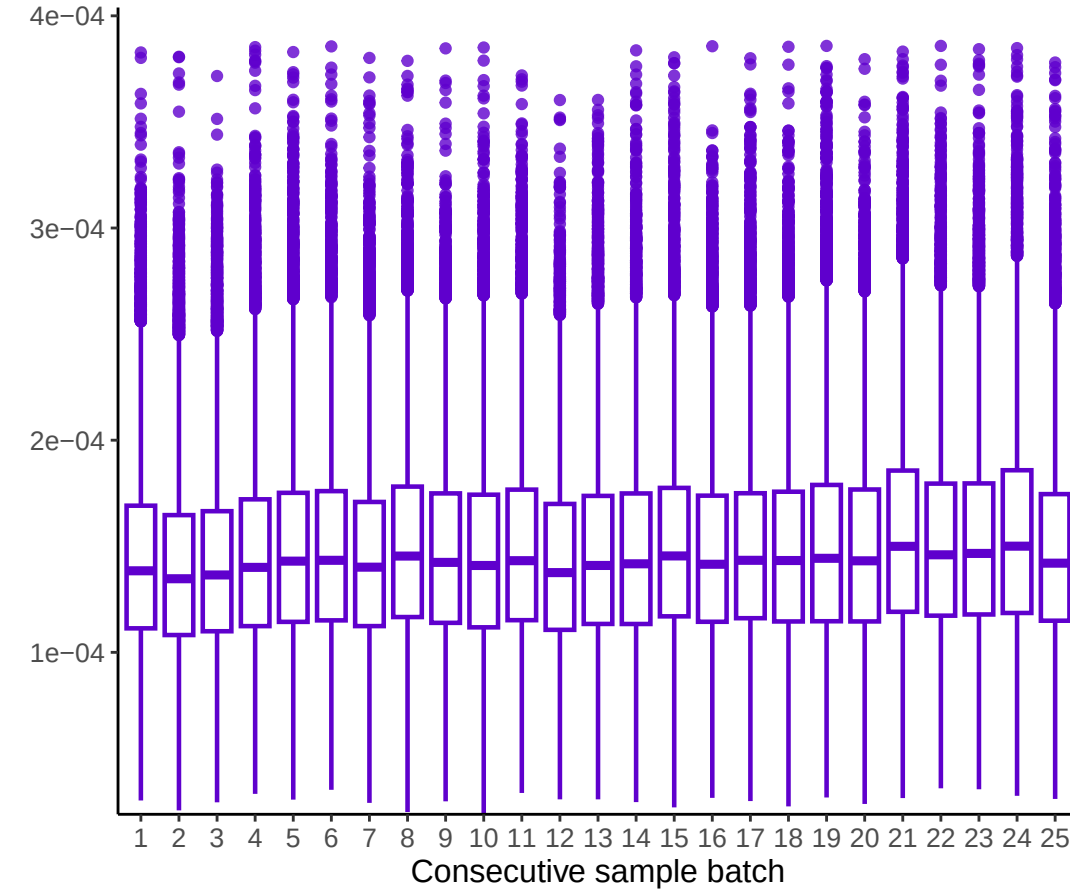


Lipoprotein particle concentrations

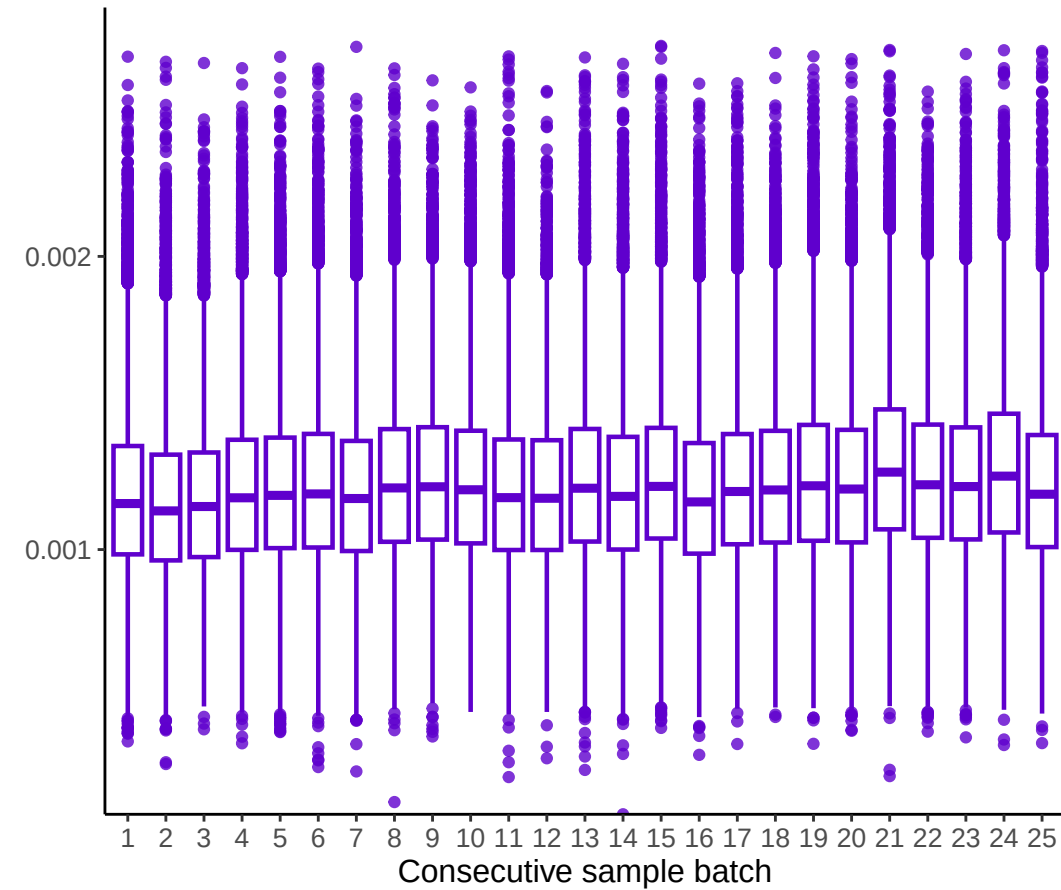
Total_P



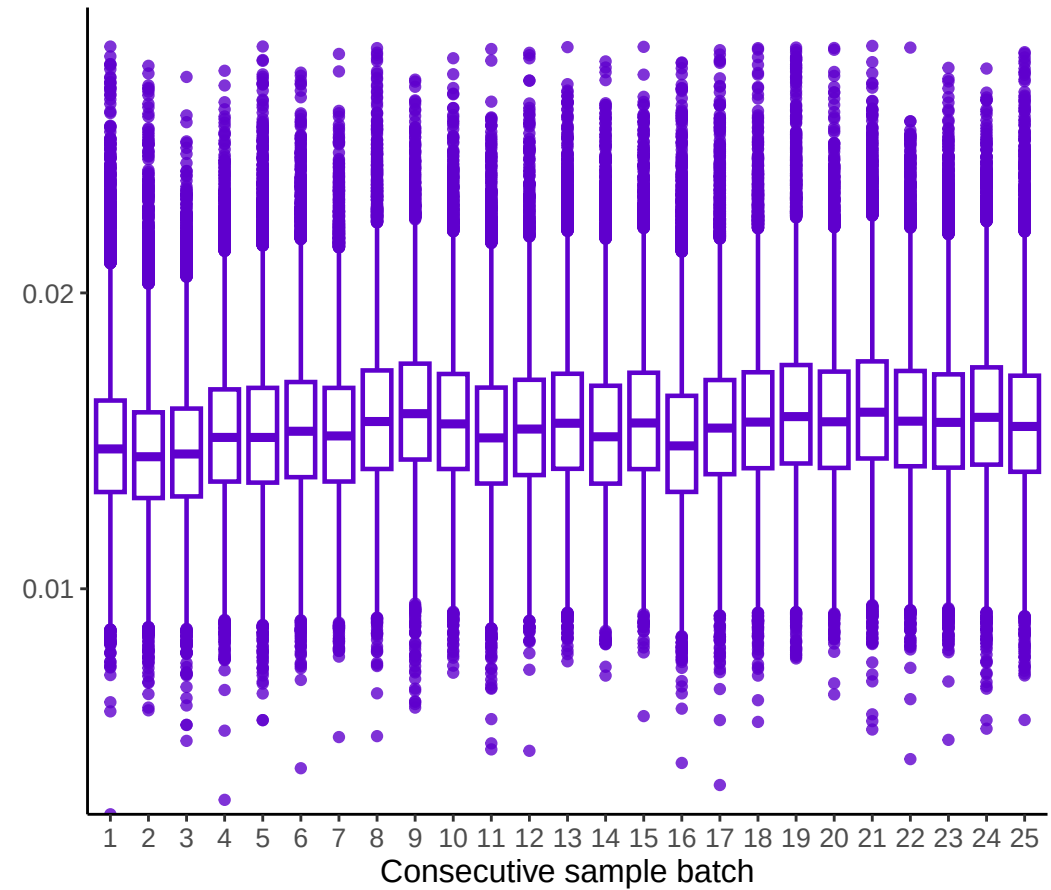
VLDL_P



LDL_P

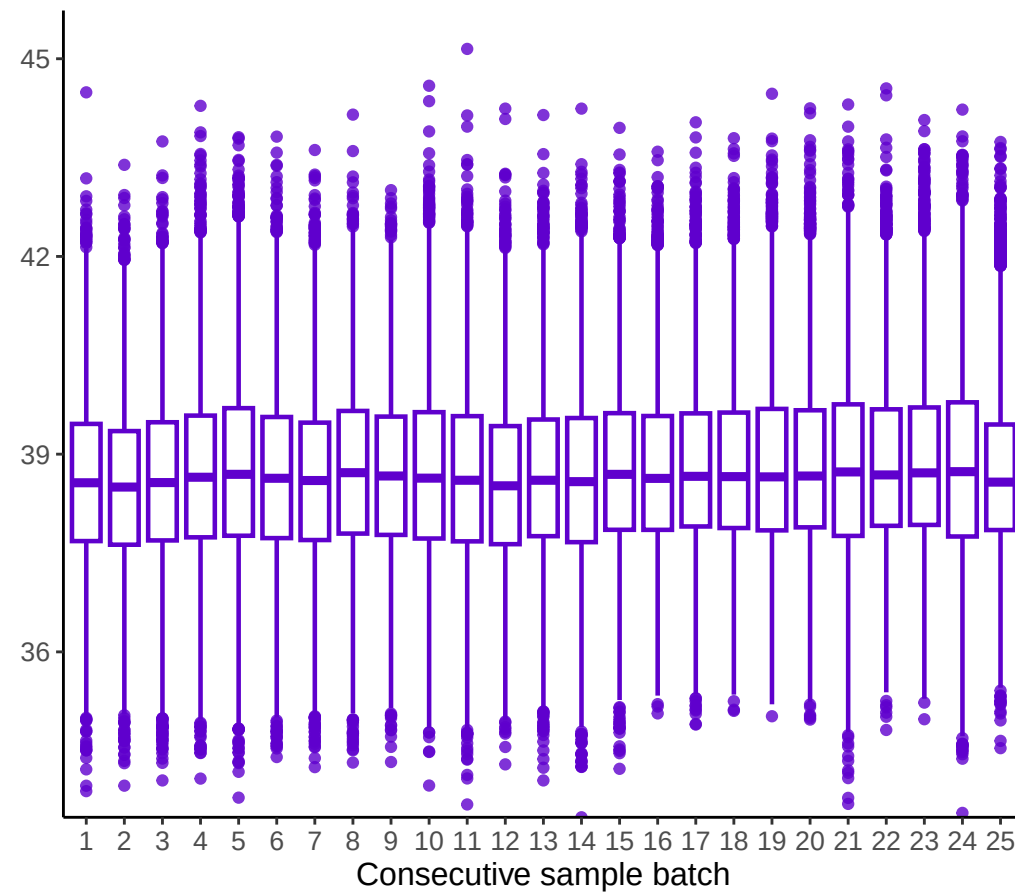


HDL_P

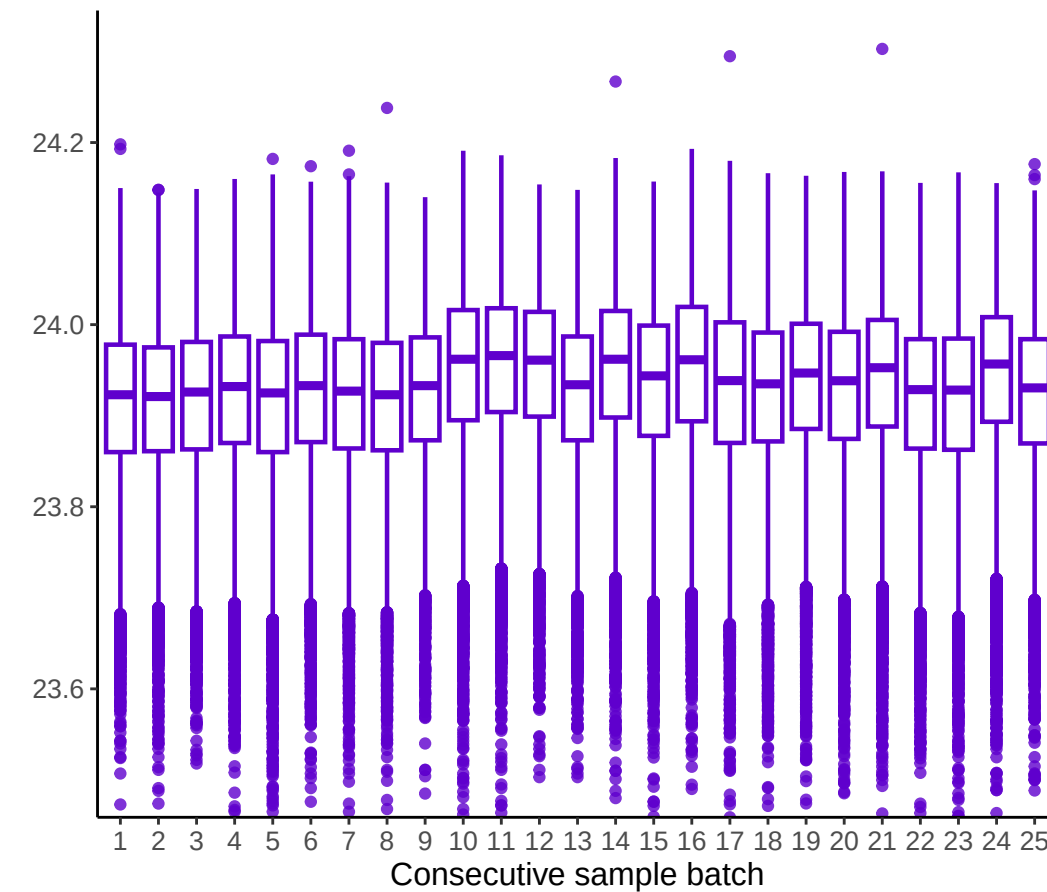


Lipoprotein particle sizes

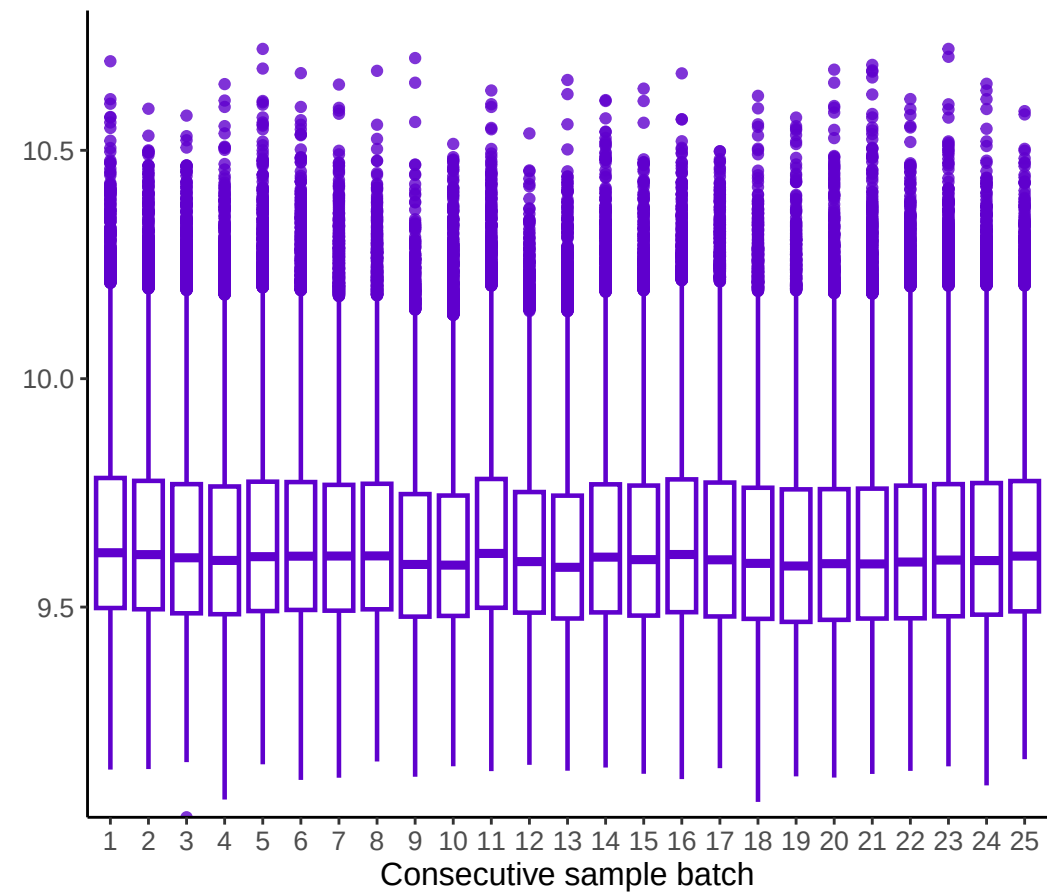
VLDL_size



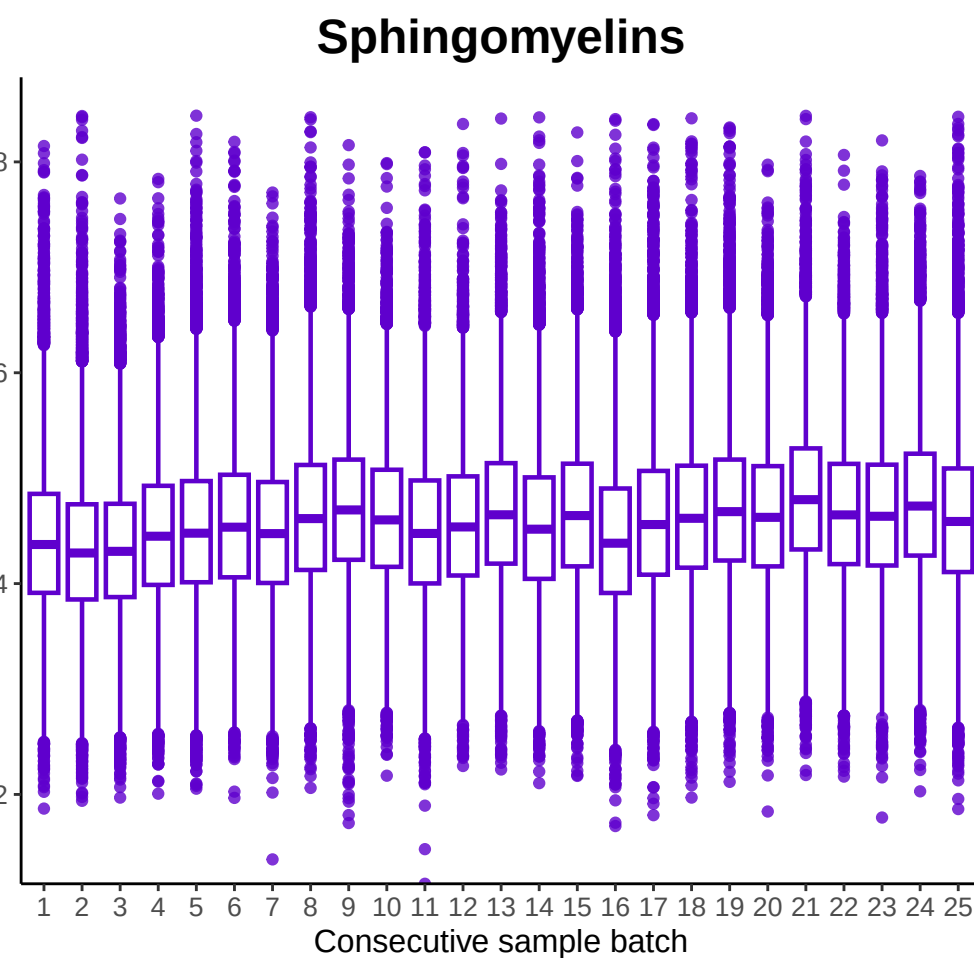
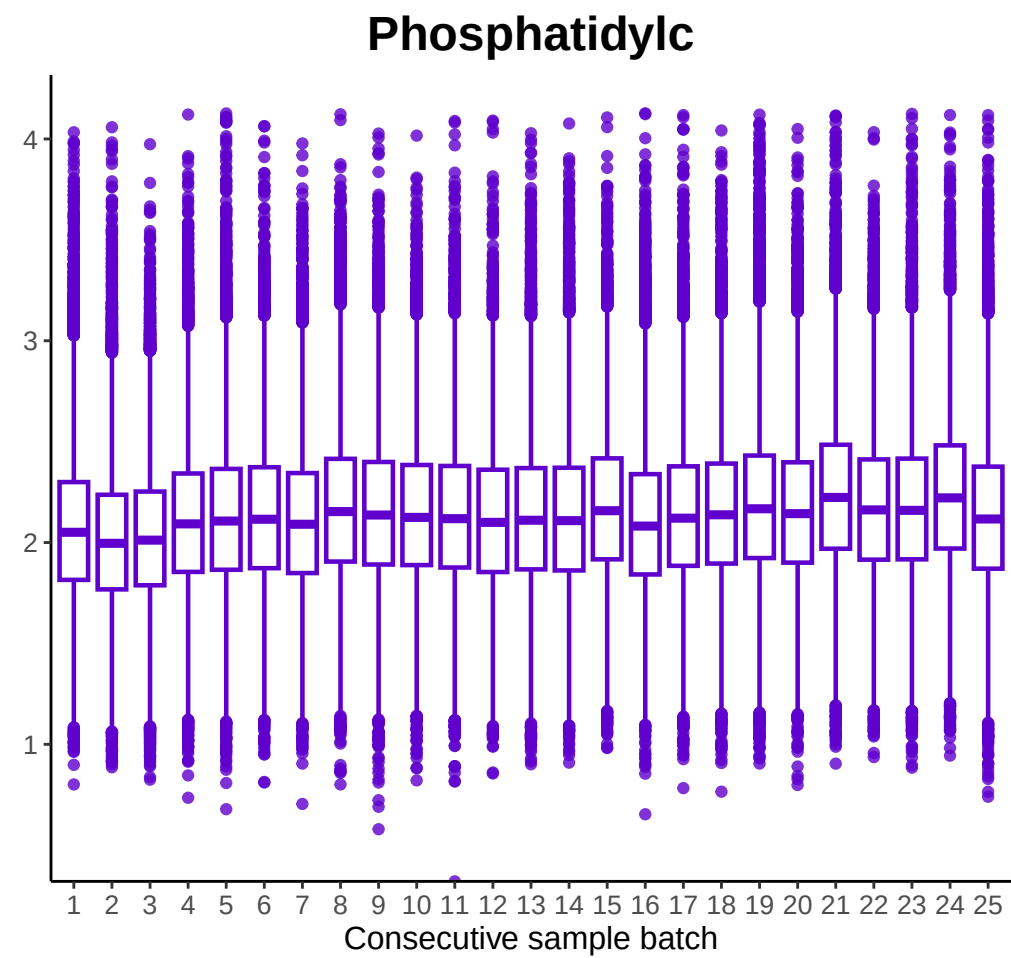
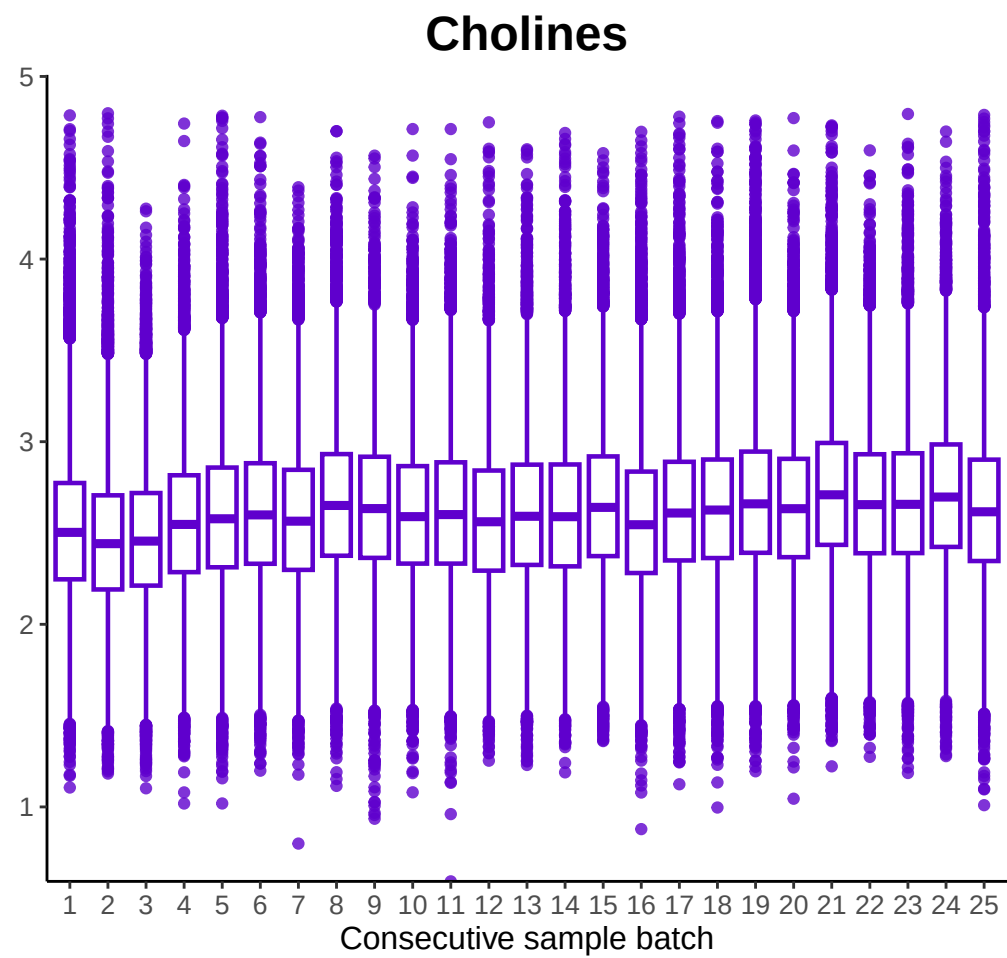
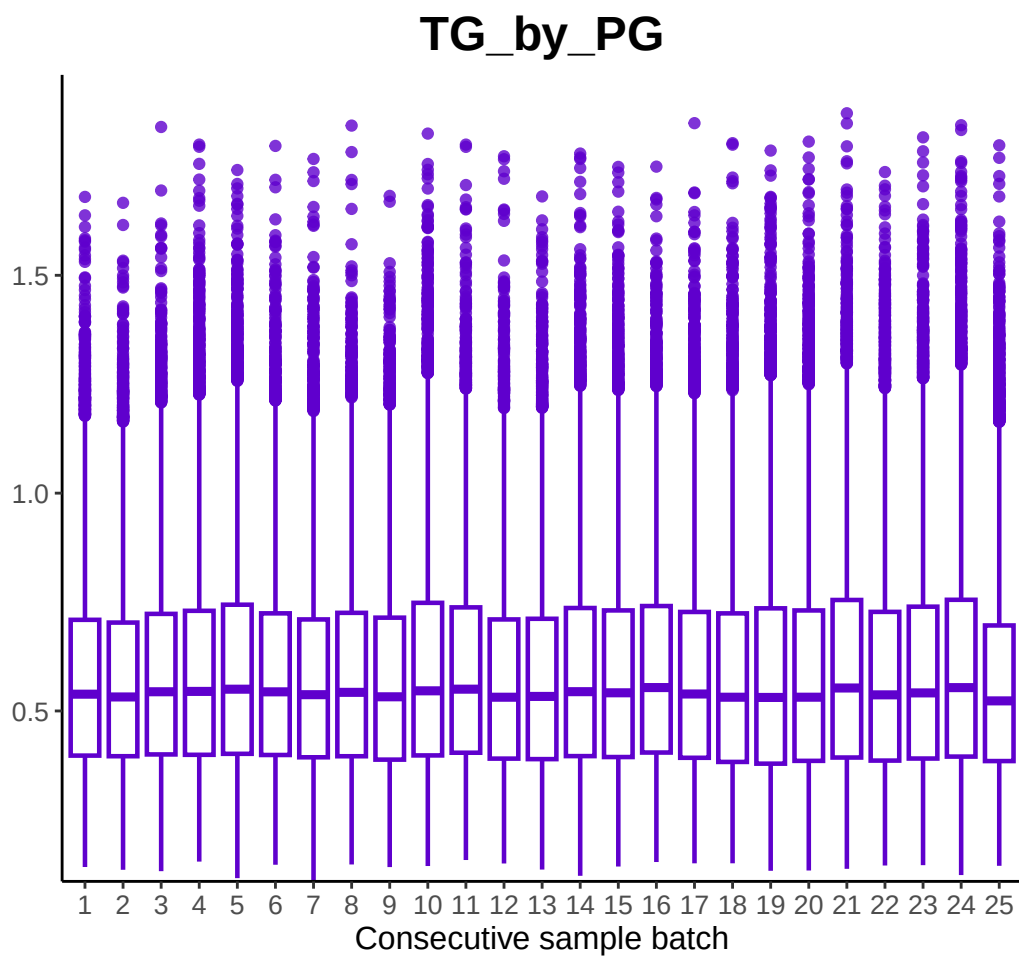
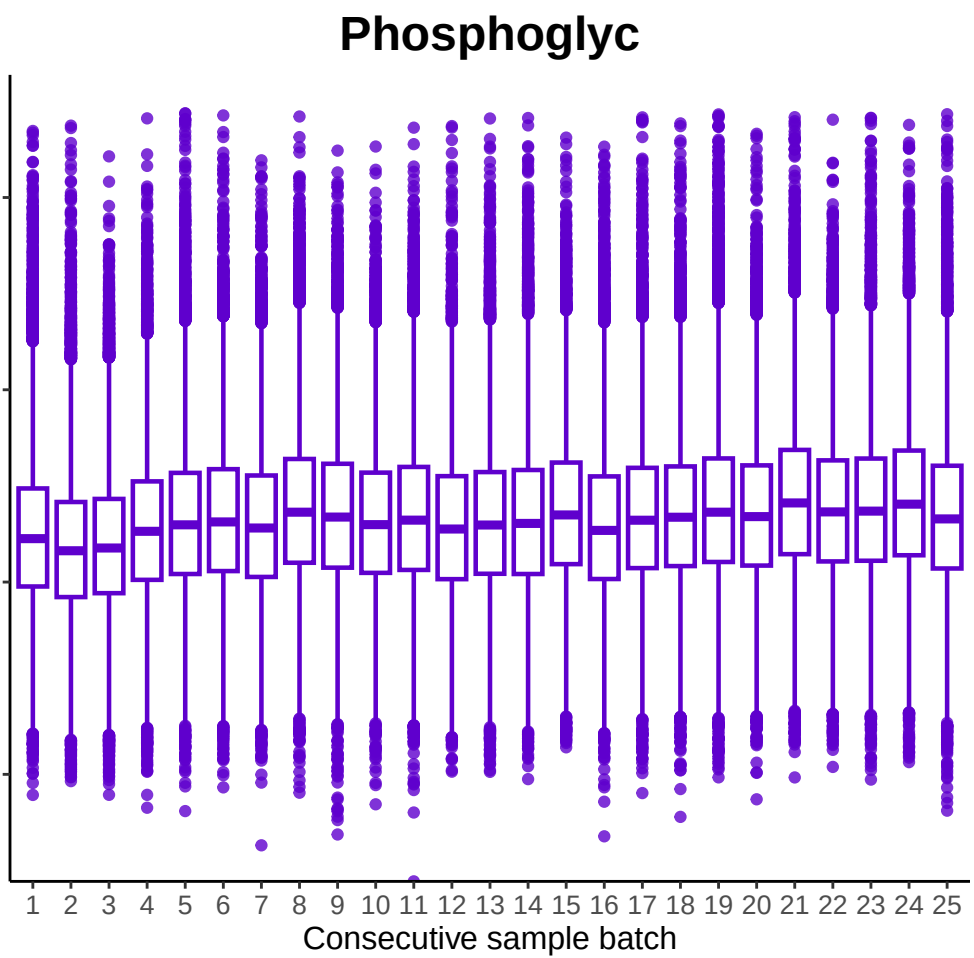
LDL_size



HDL_size

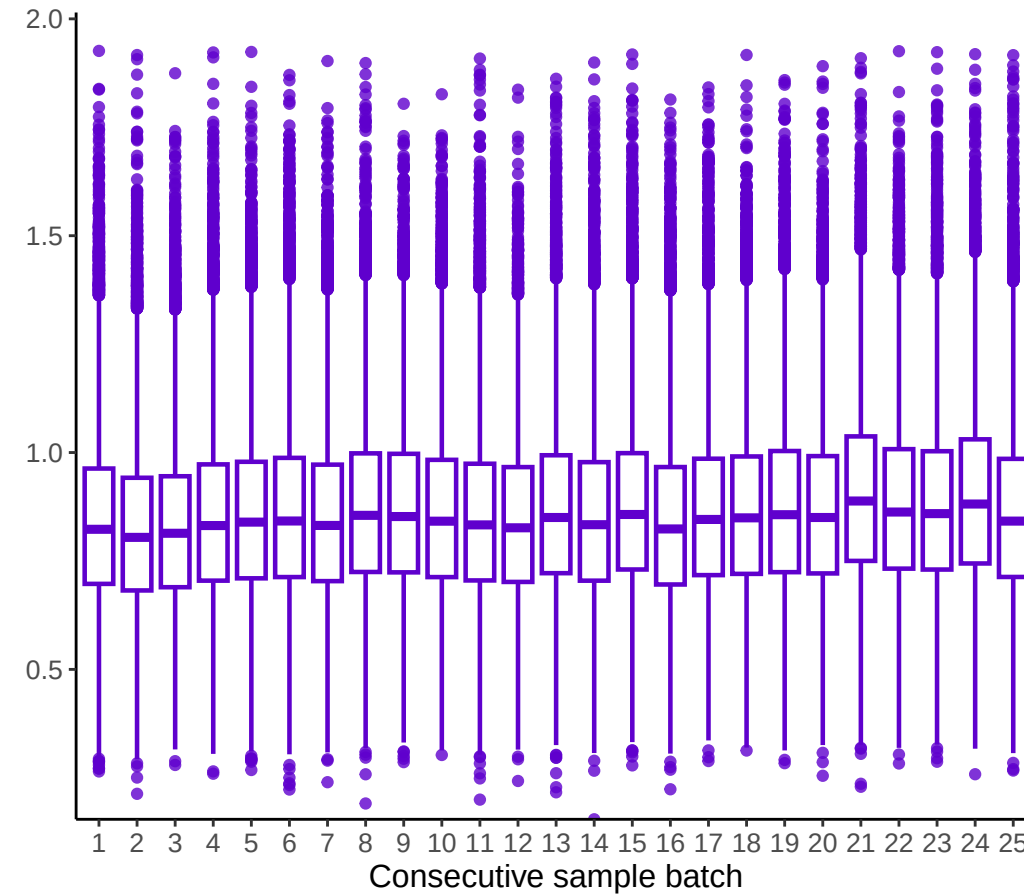


Other lipids

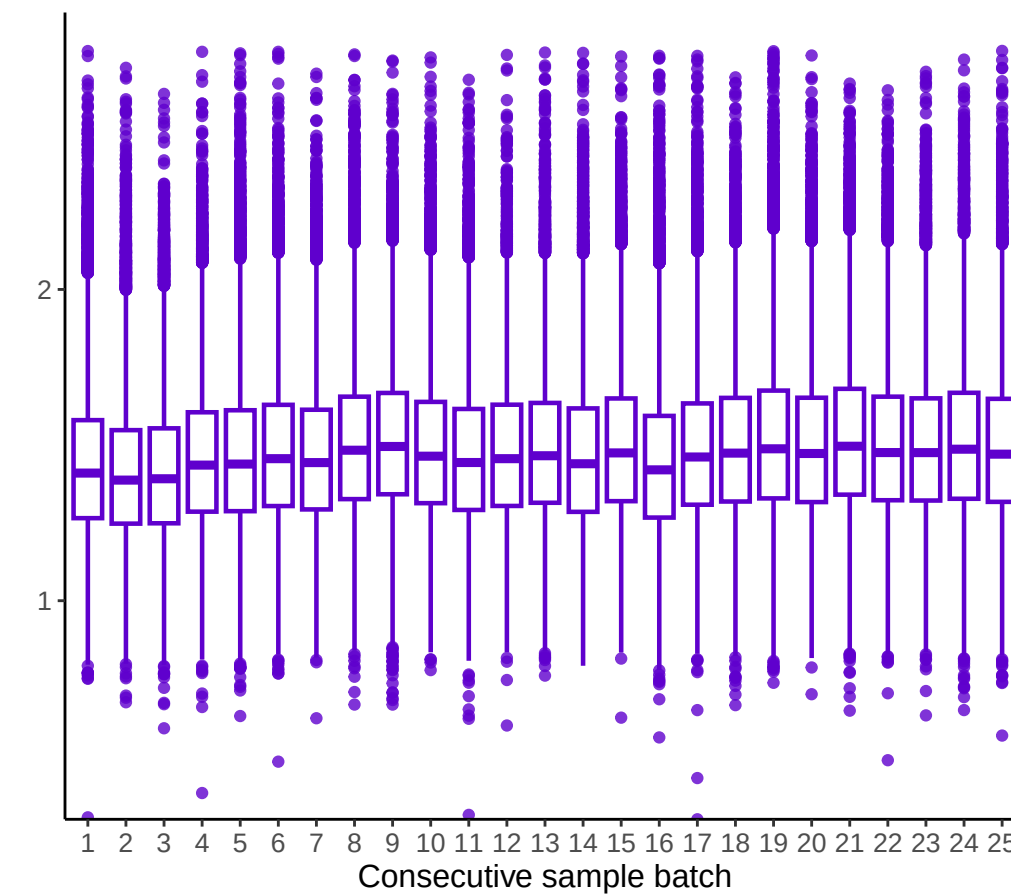


Apolipoproteins

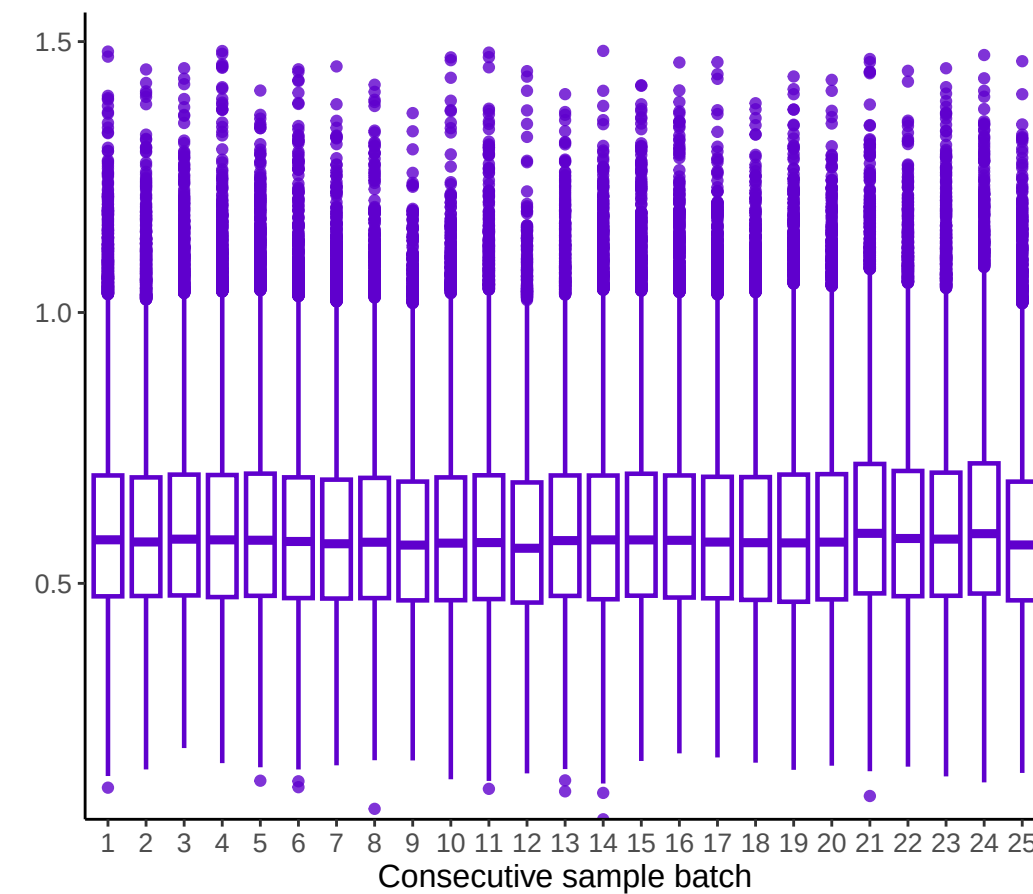
ApoB



ApoA1

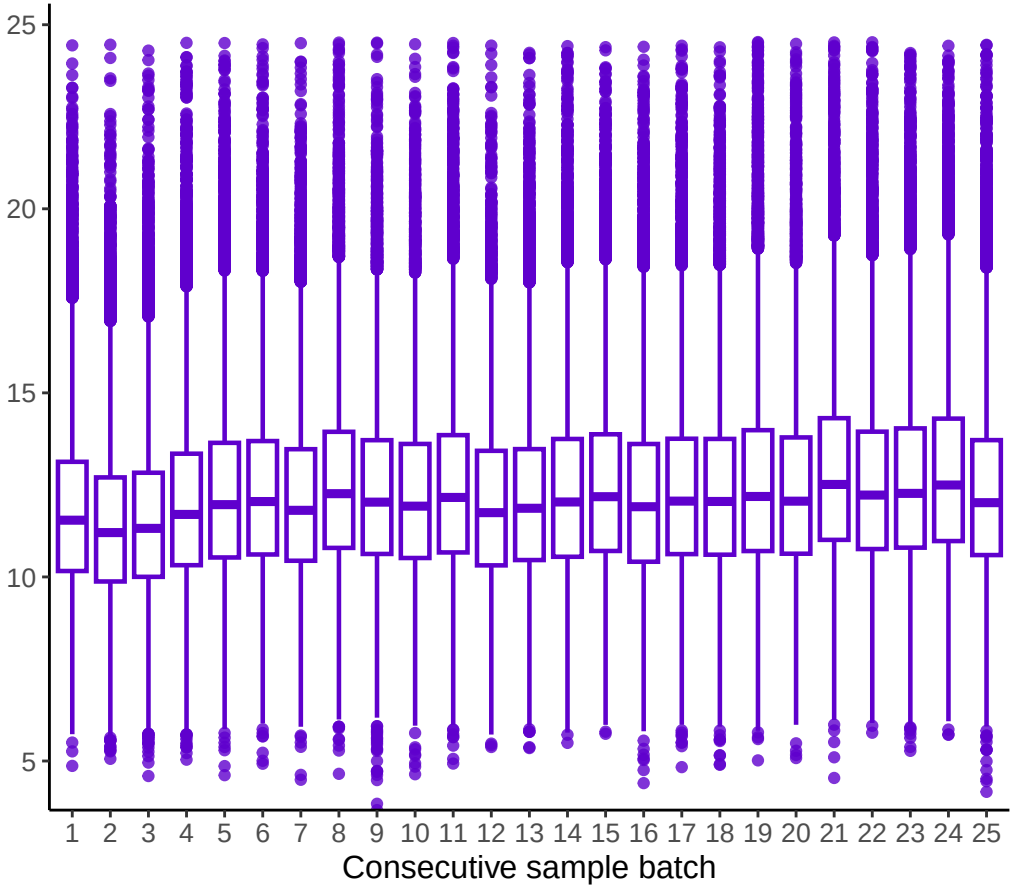


ApoB_by_ApoA1

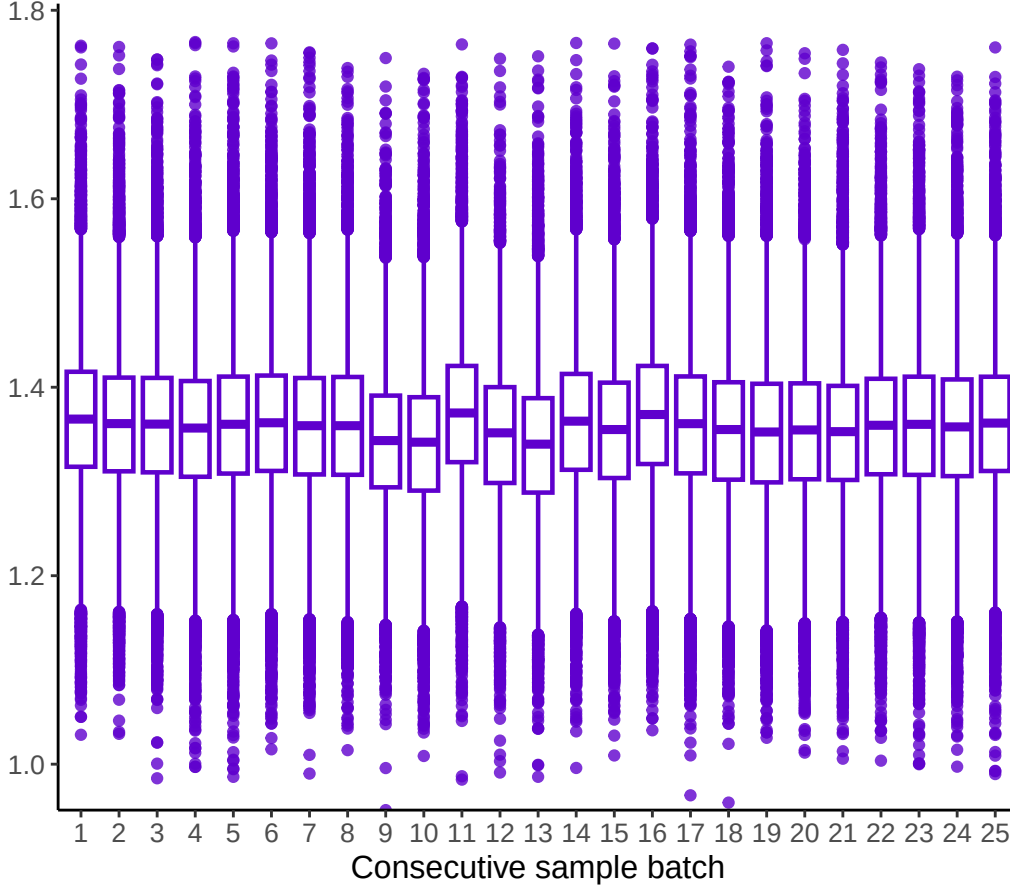


Fatty acids

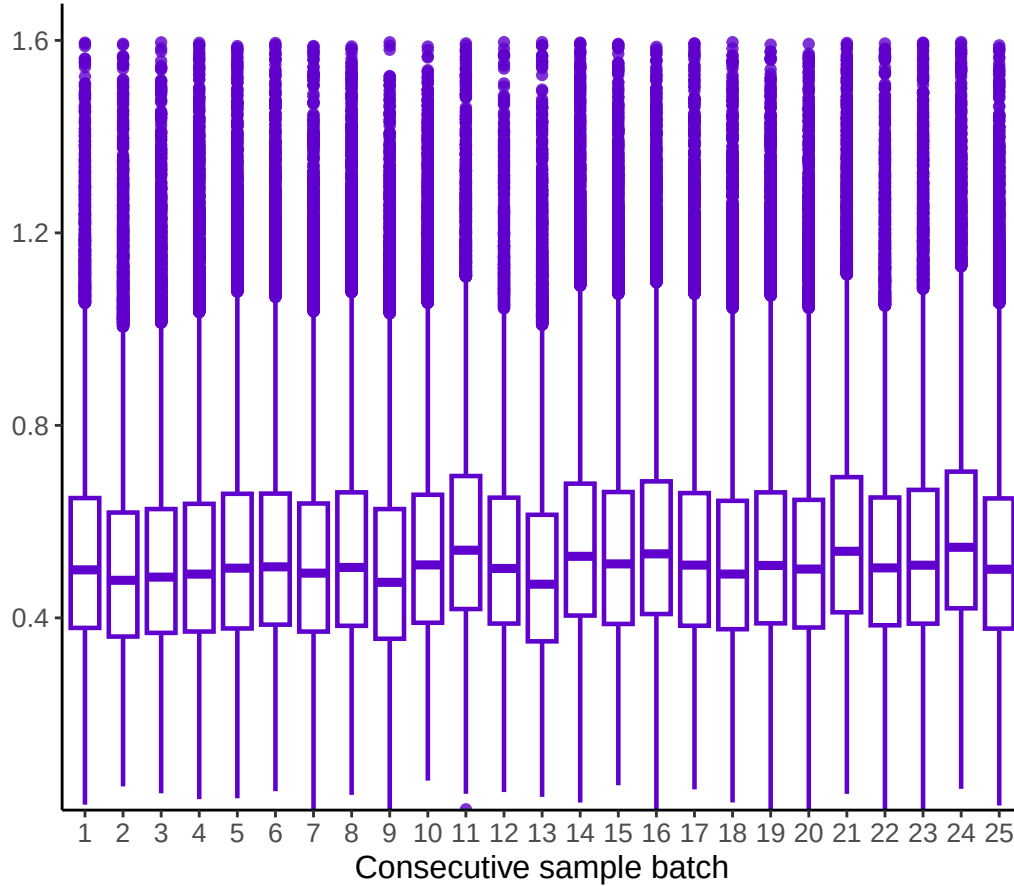
Total_FA



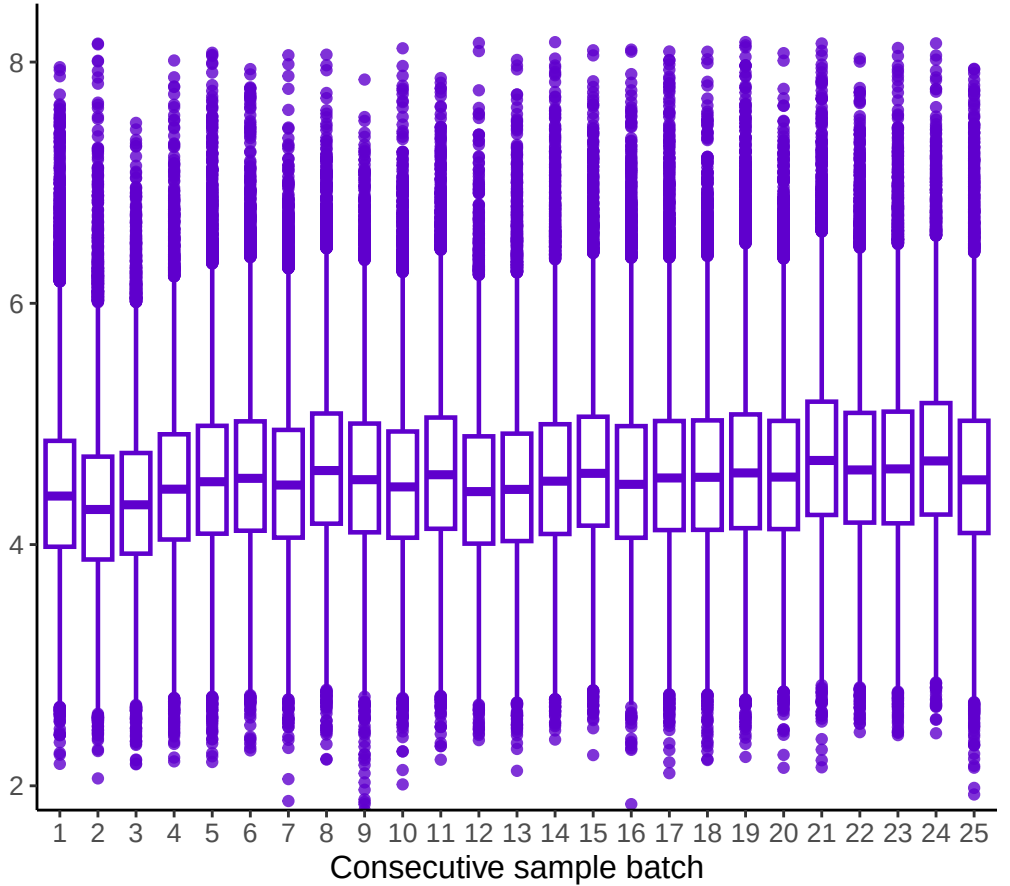
Unsaturation



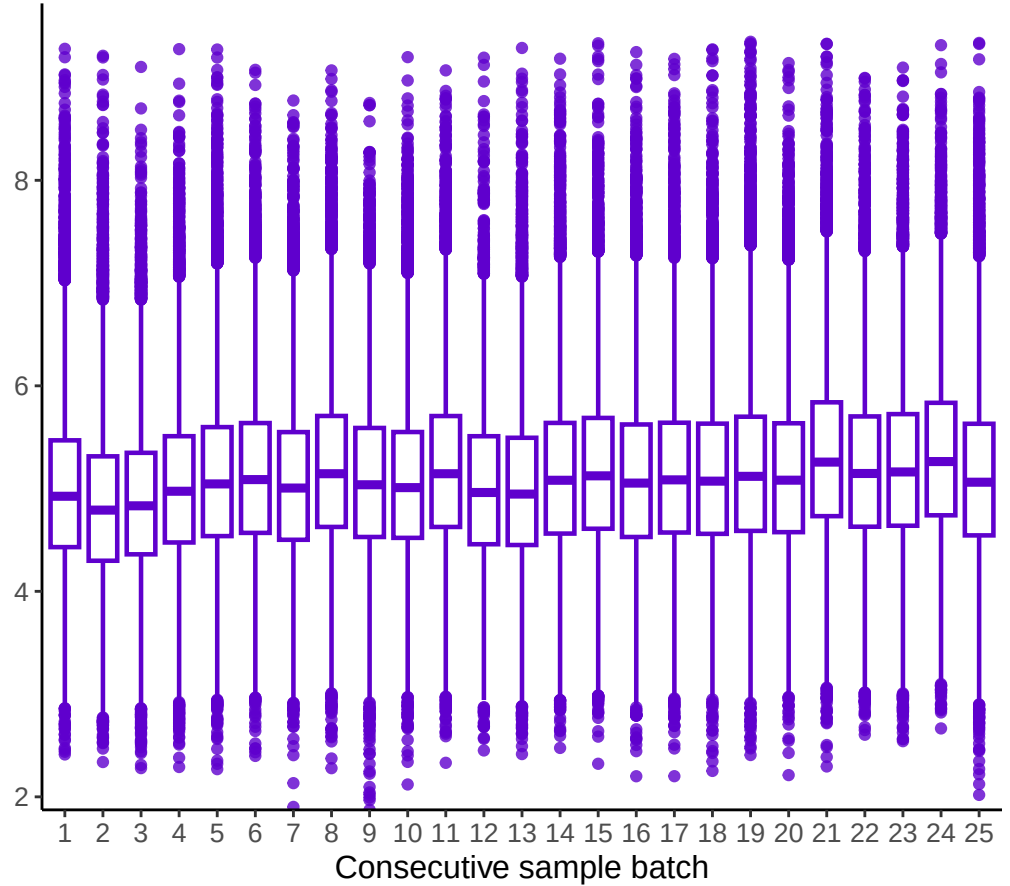
Omega_3



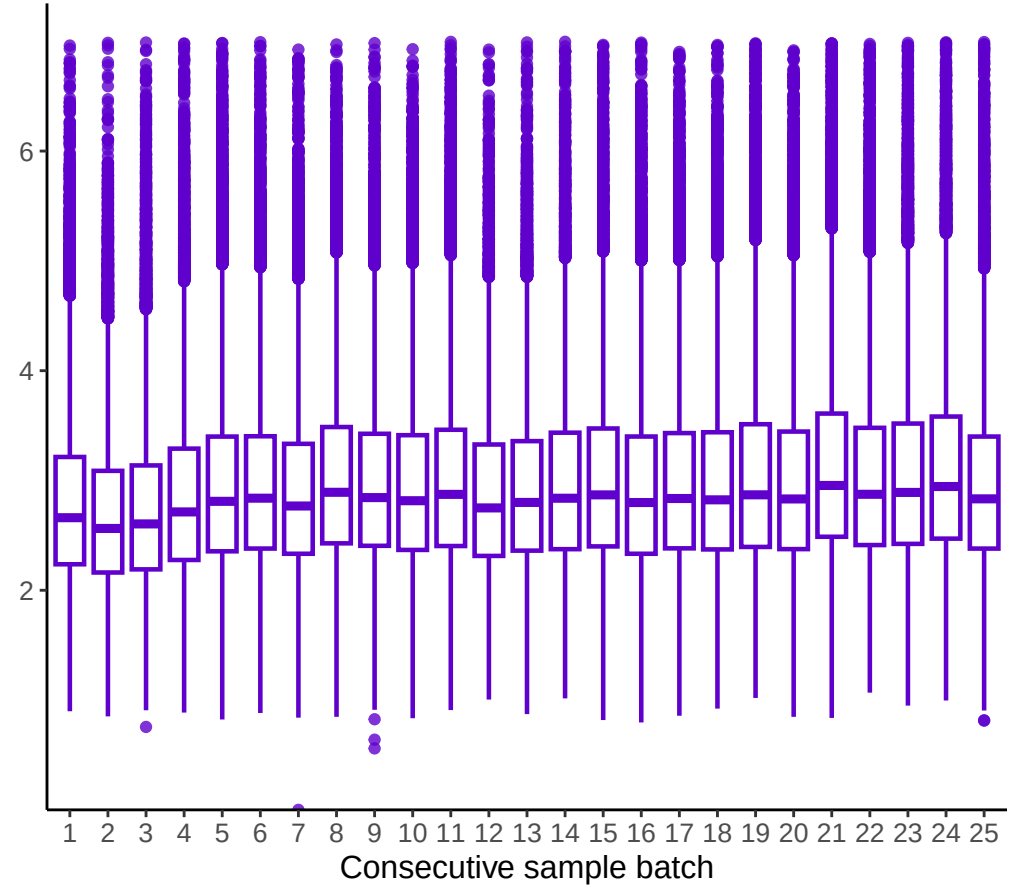
Omega_6



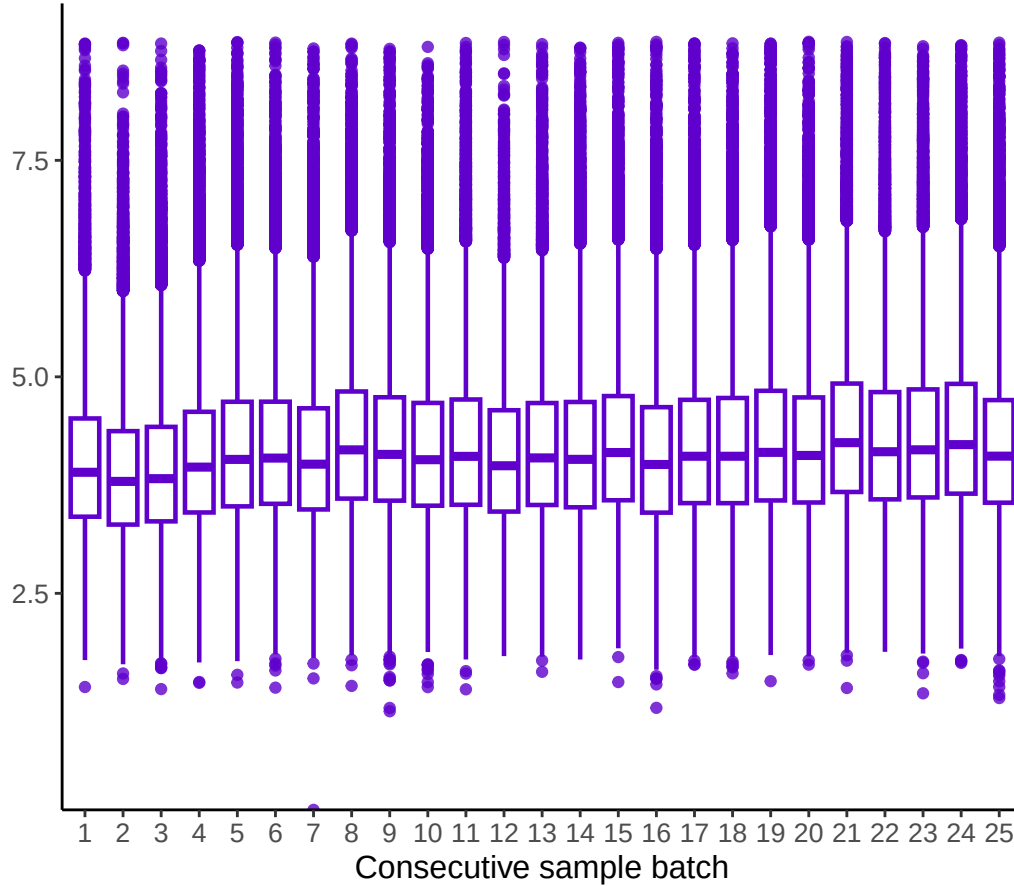
PUFA



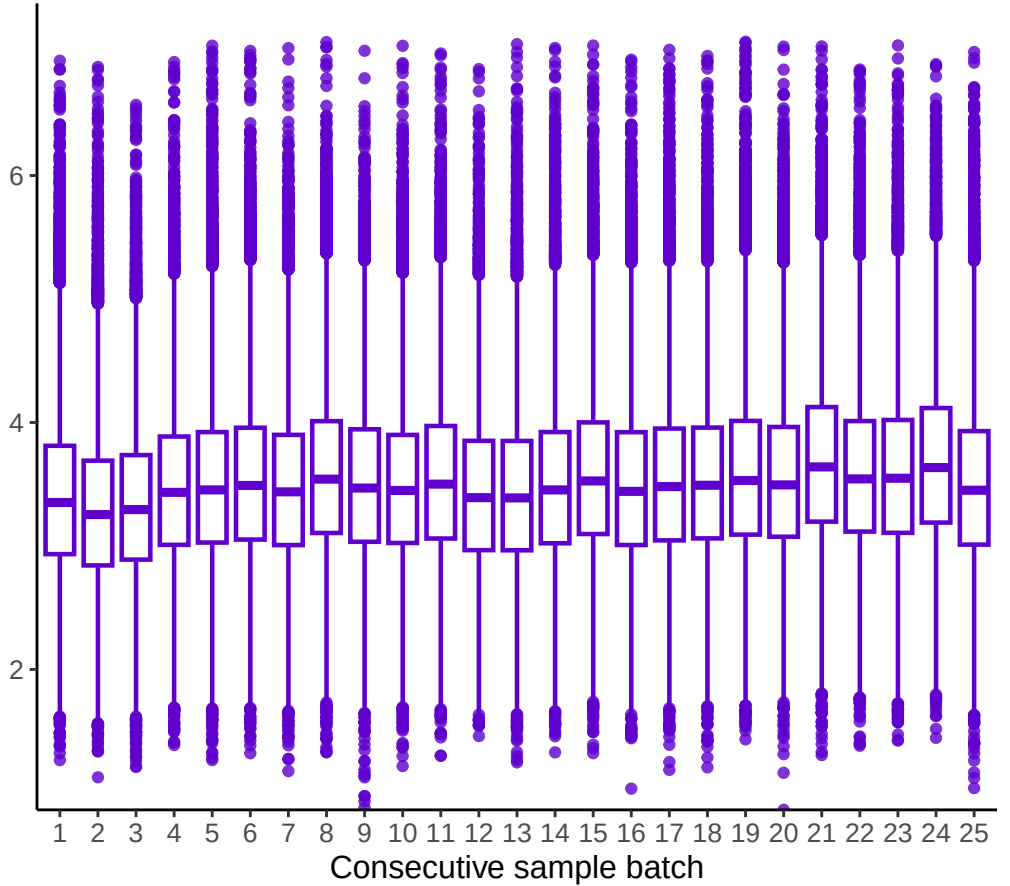
MUFA



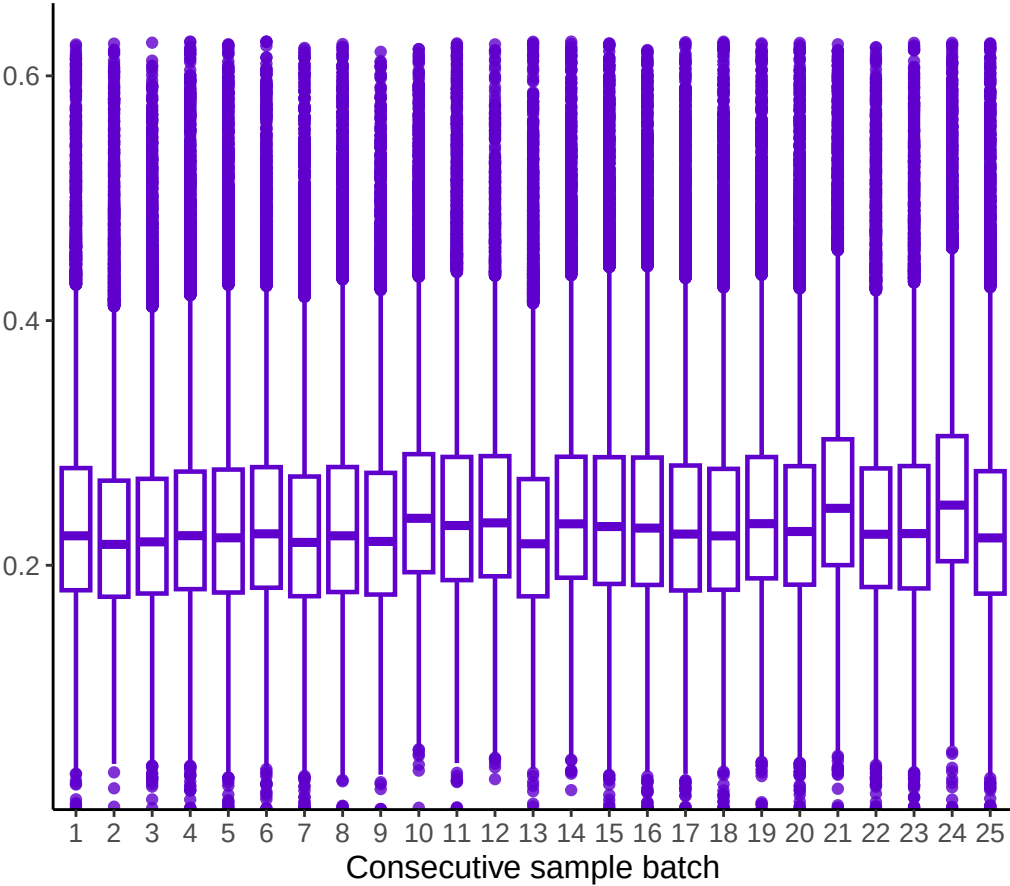
SFA



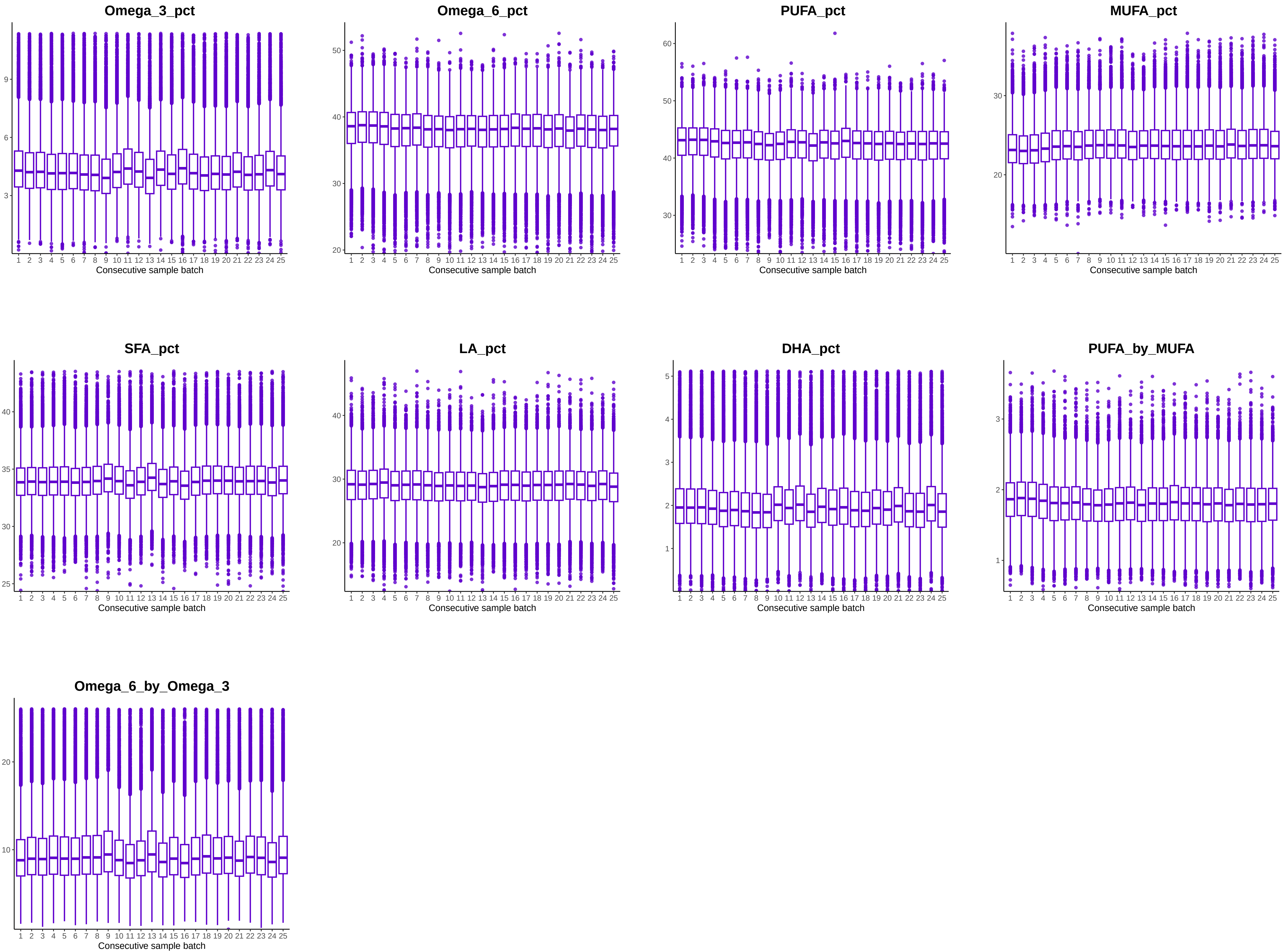
LA



DHA

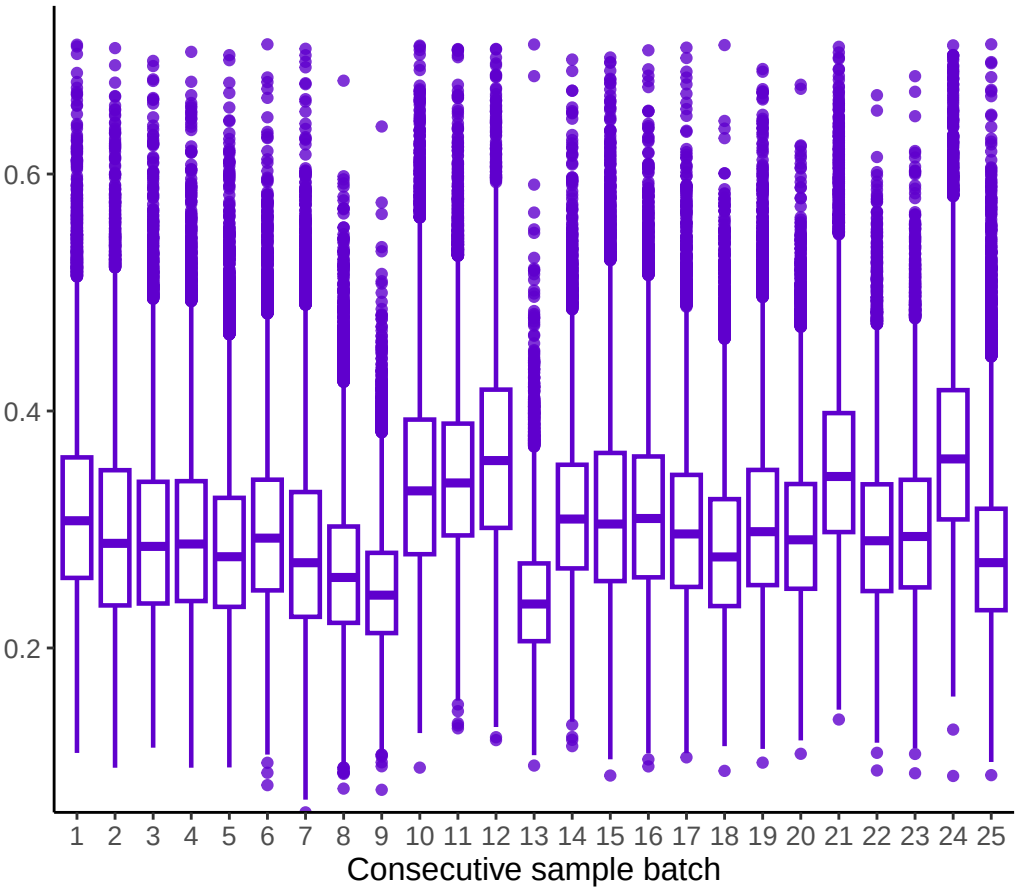


Fatty acid ratios

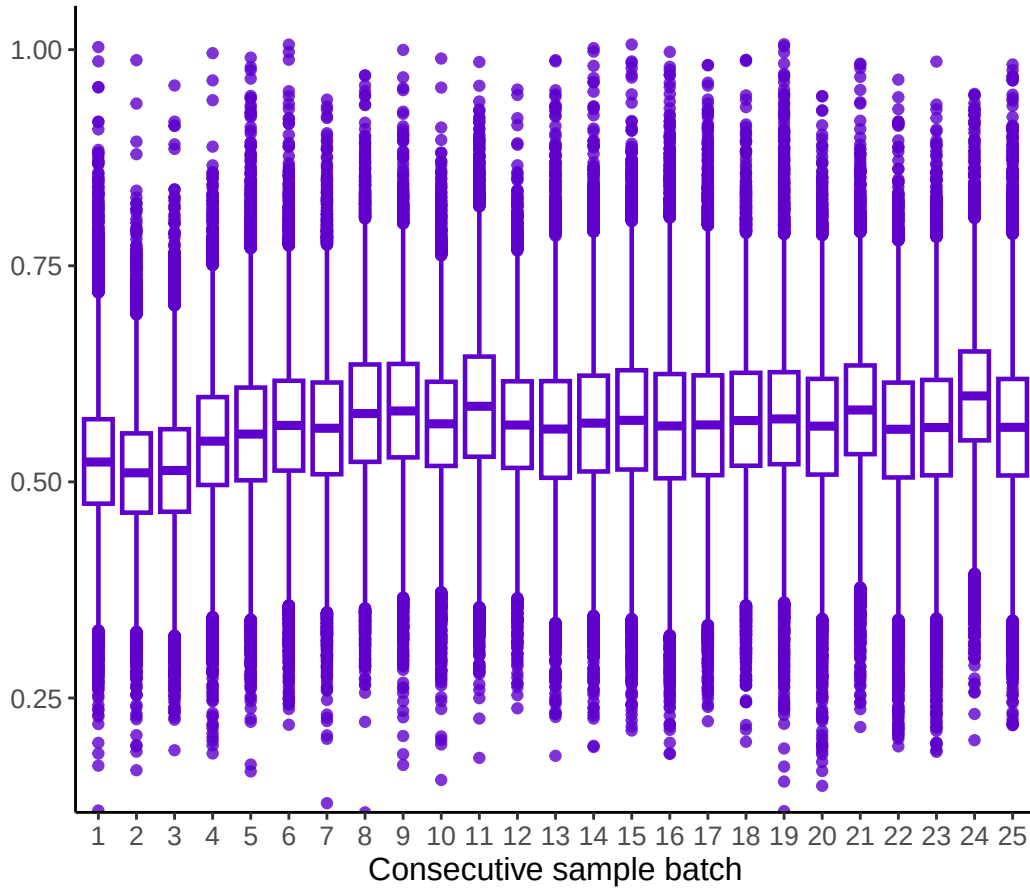


Amino acids

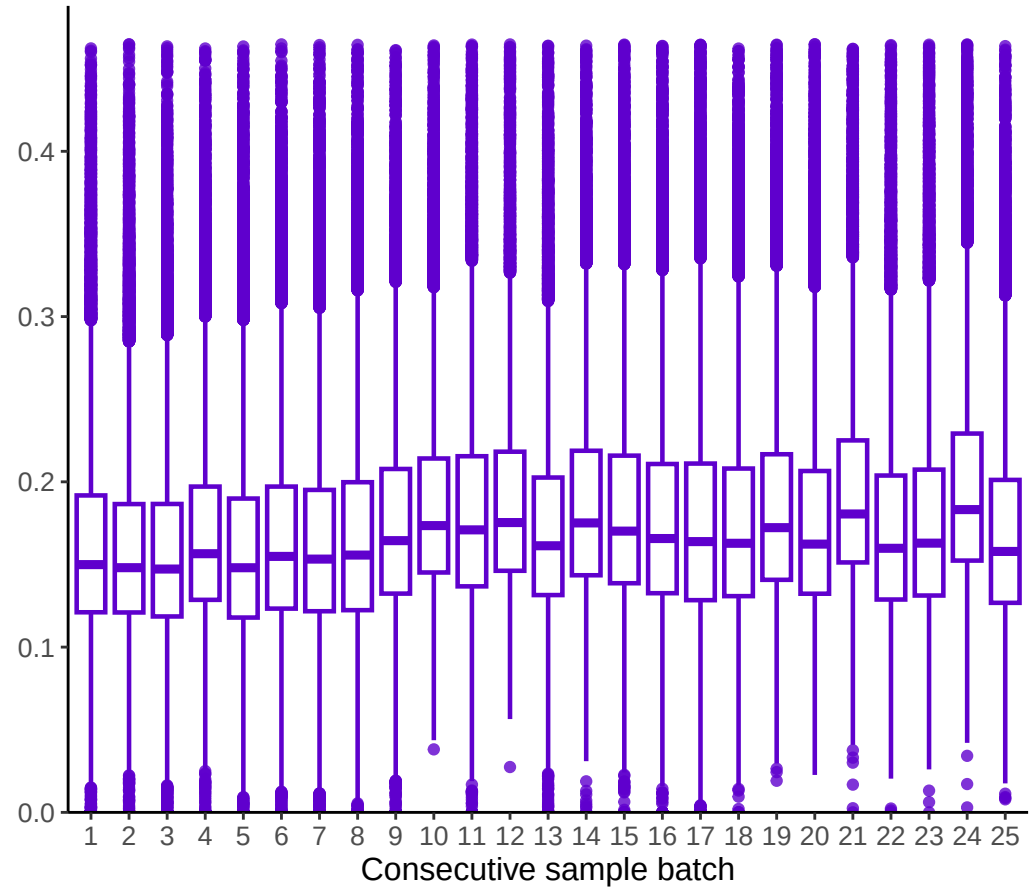
Ala



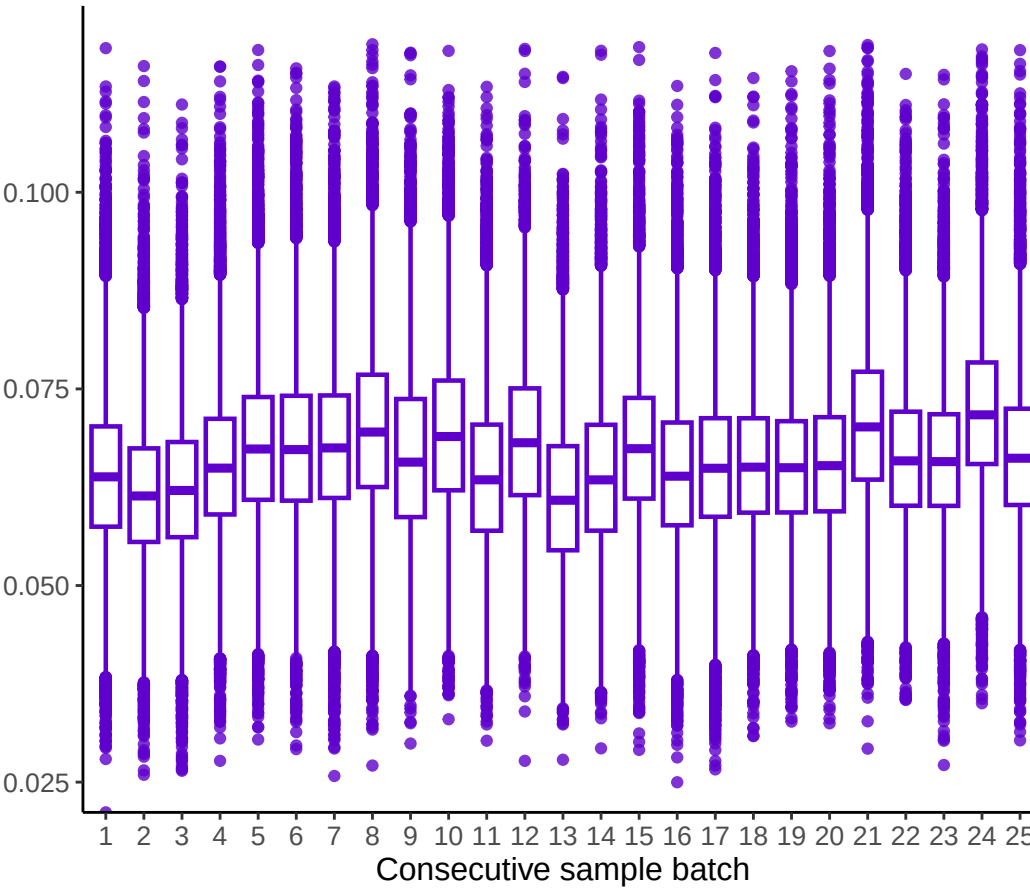
Gln



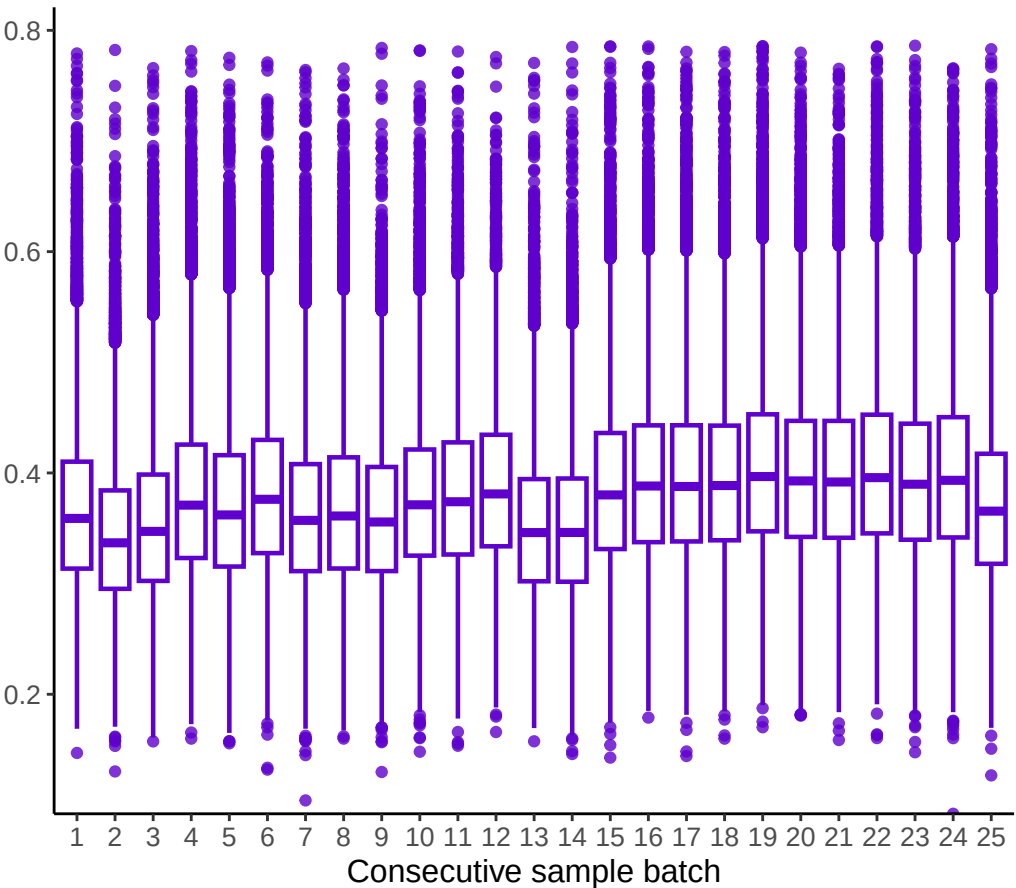
Gly



His

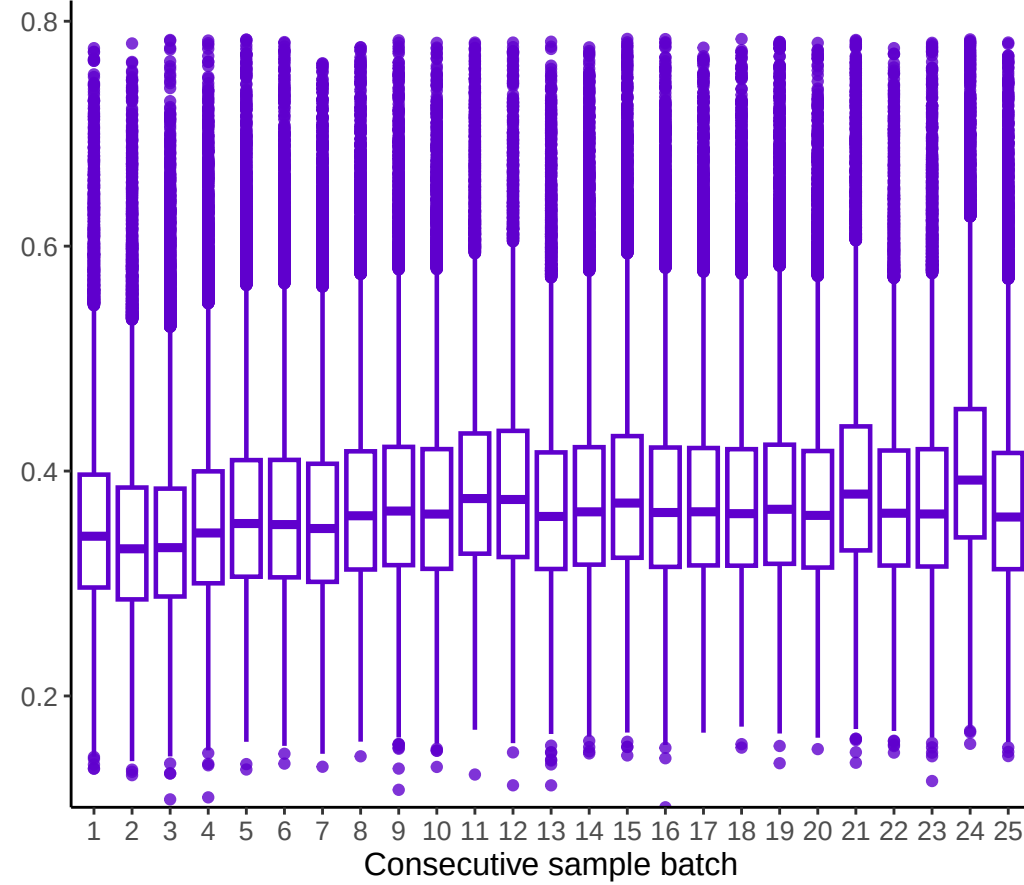


Ala_corrected

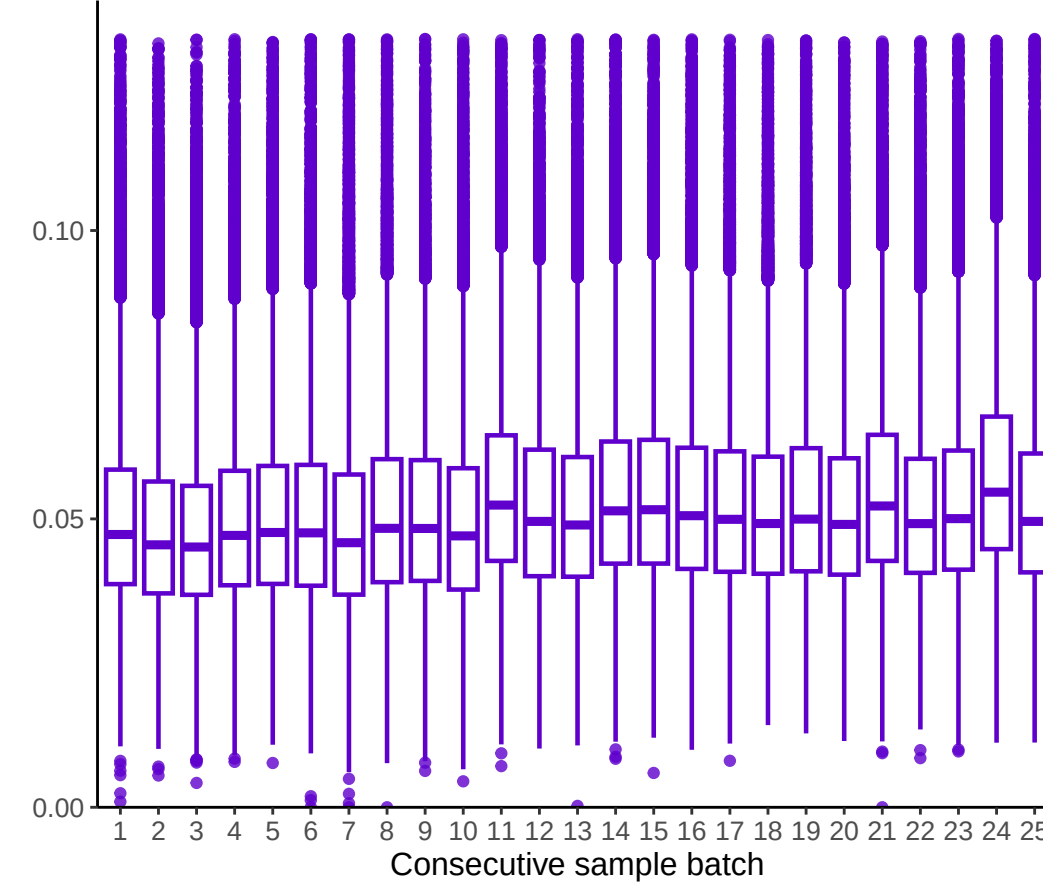


Branched-chain amino acids

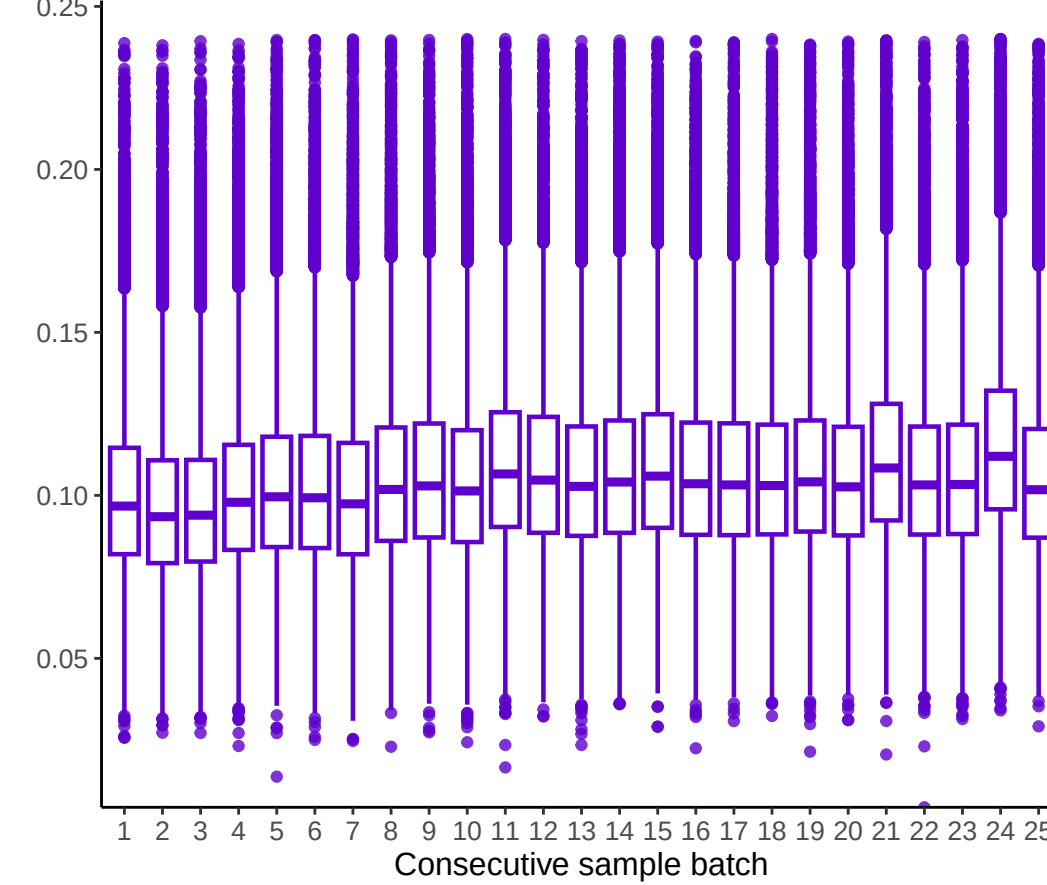
Total_BCAA



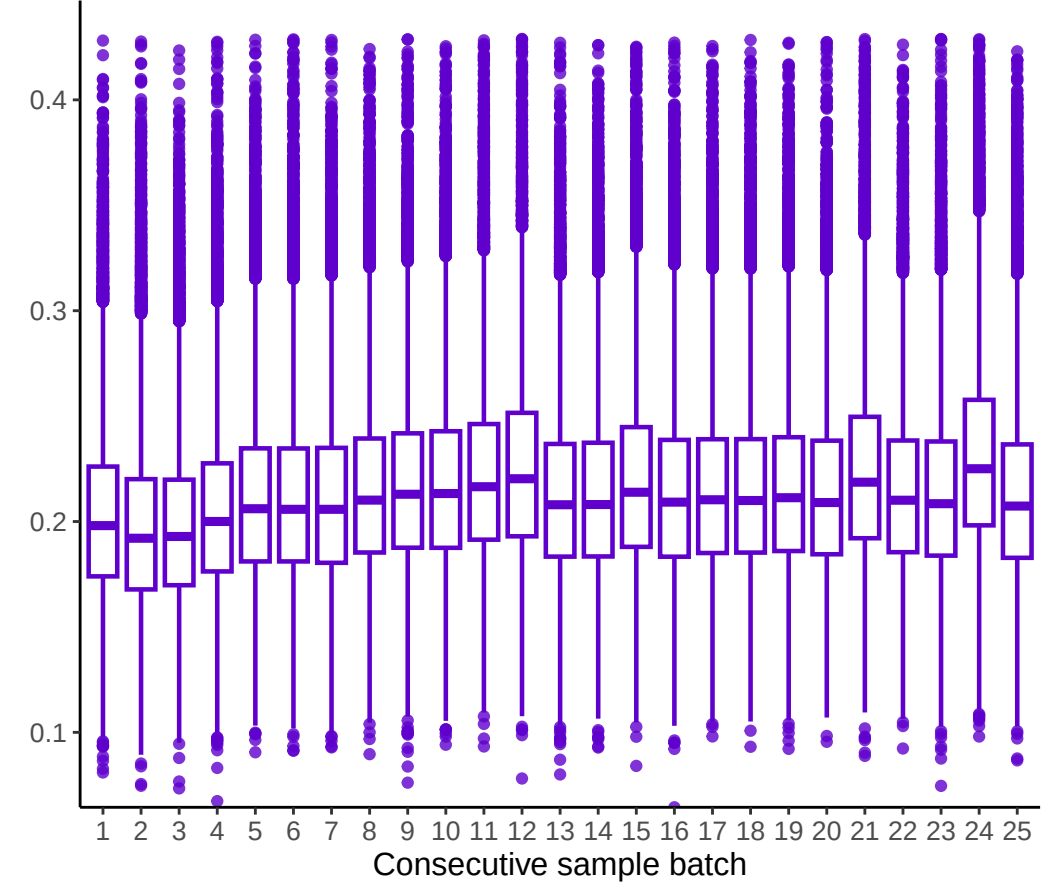
Ile



Leu

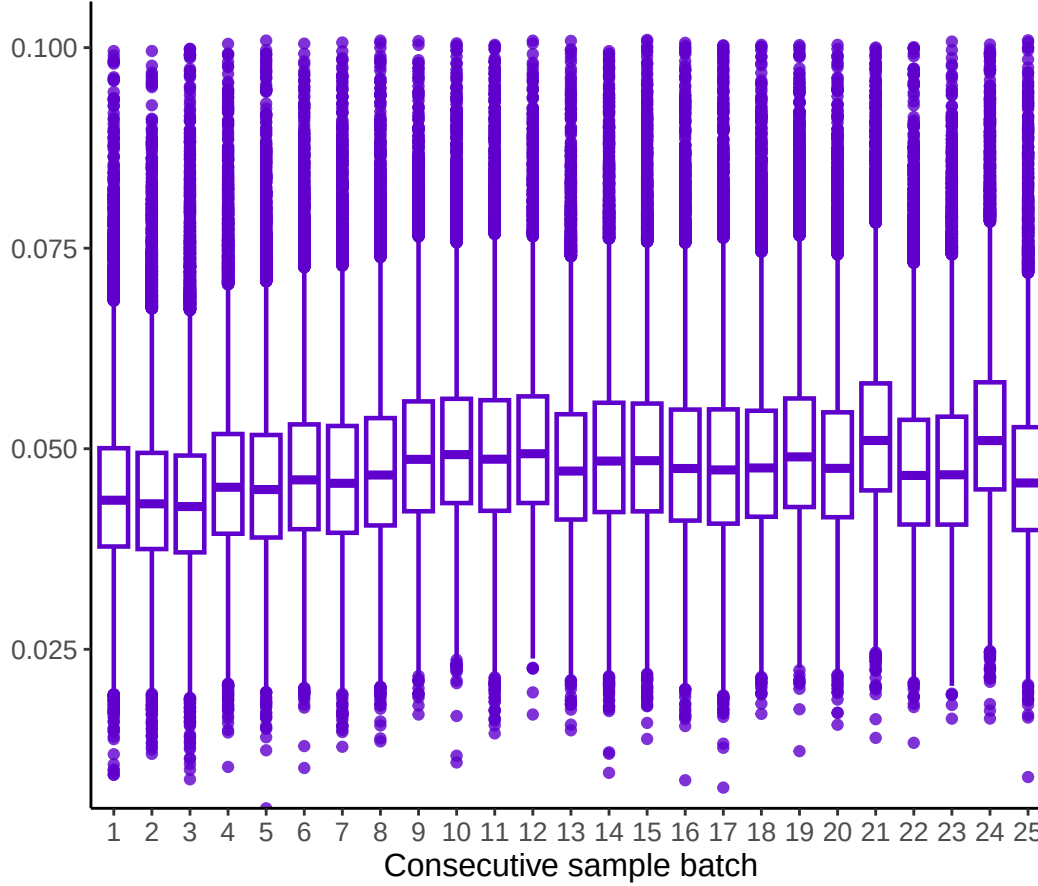


Val

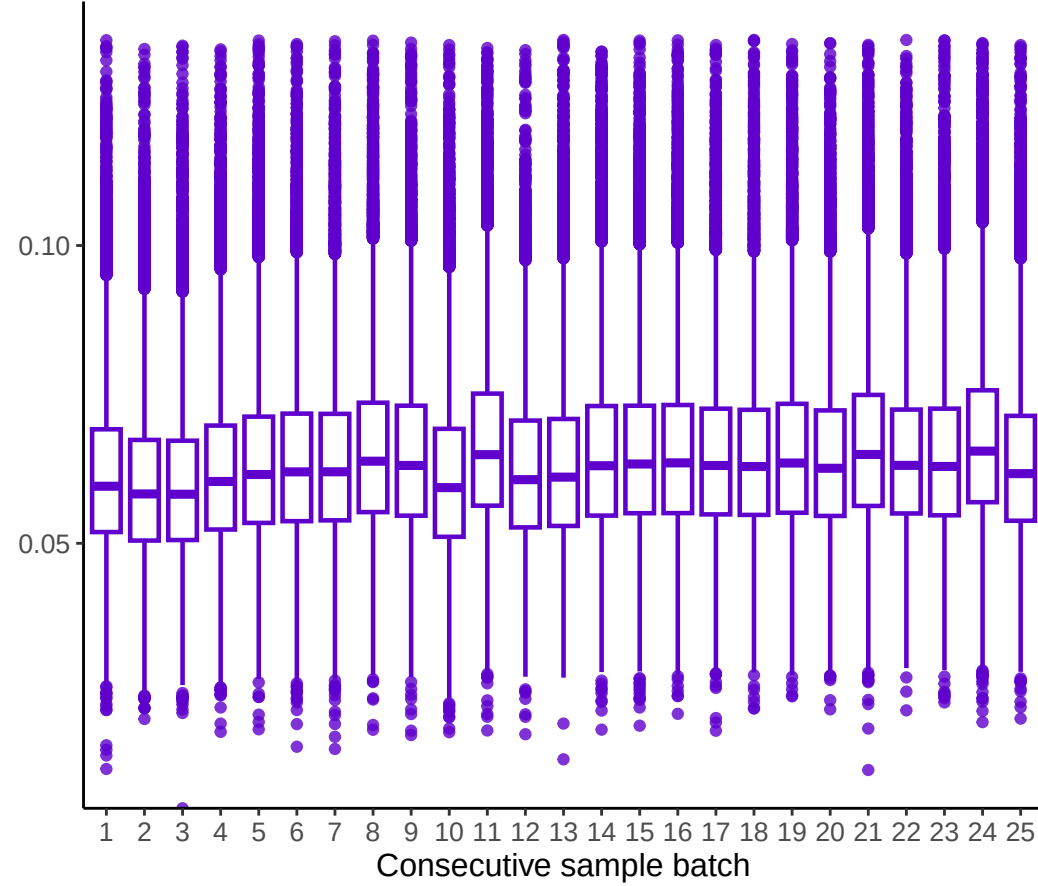


Aromatic amino acids

Phe

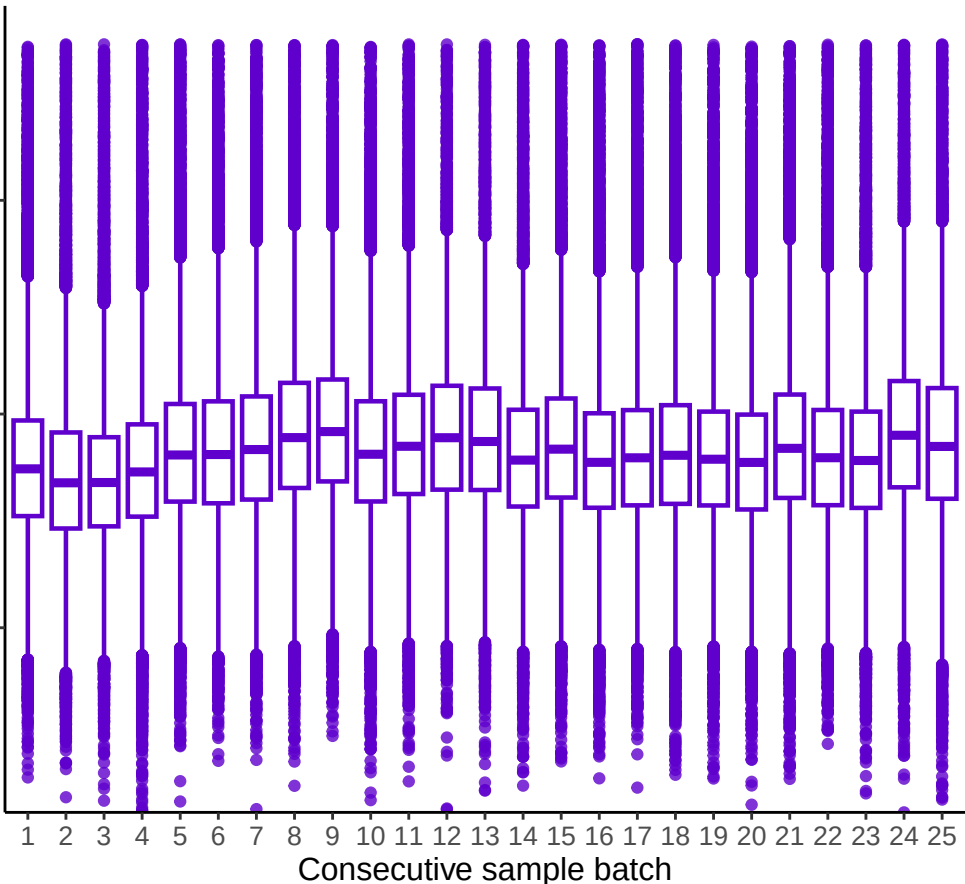


Tyr

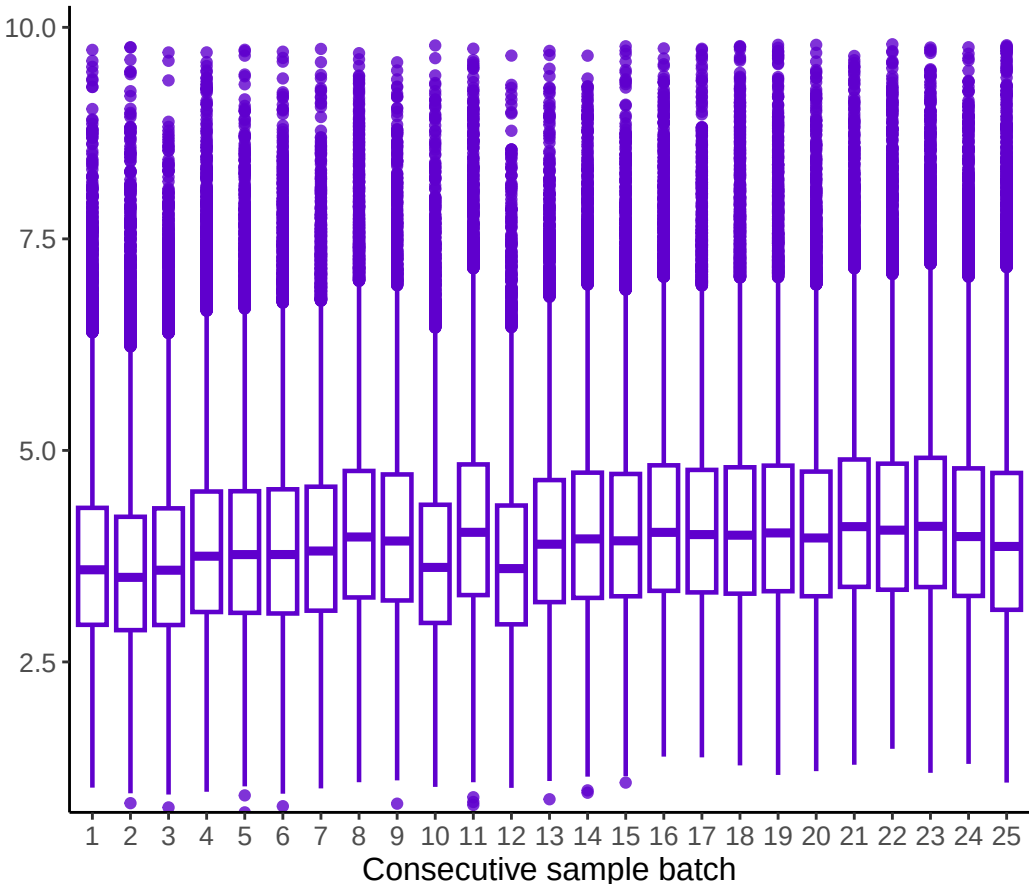


Glycolysis related metabolites

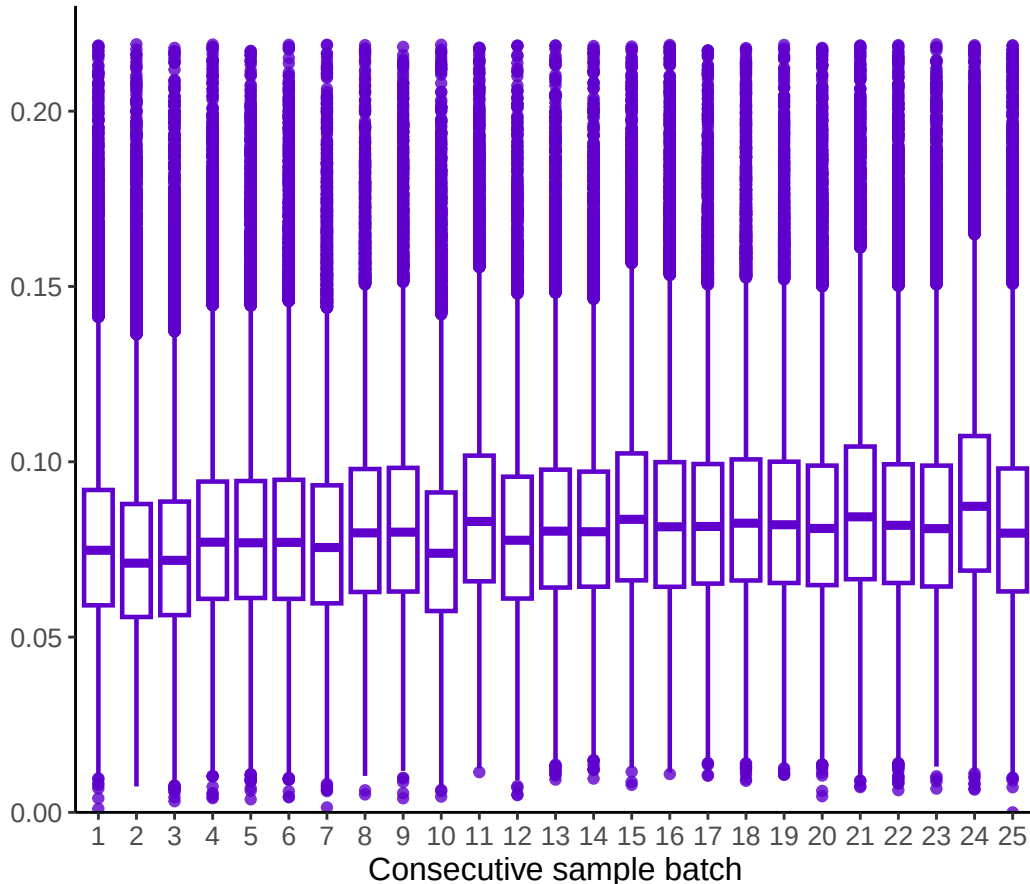
Glucose



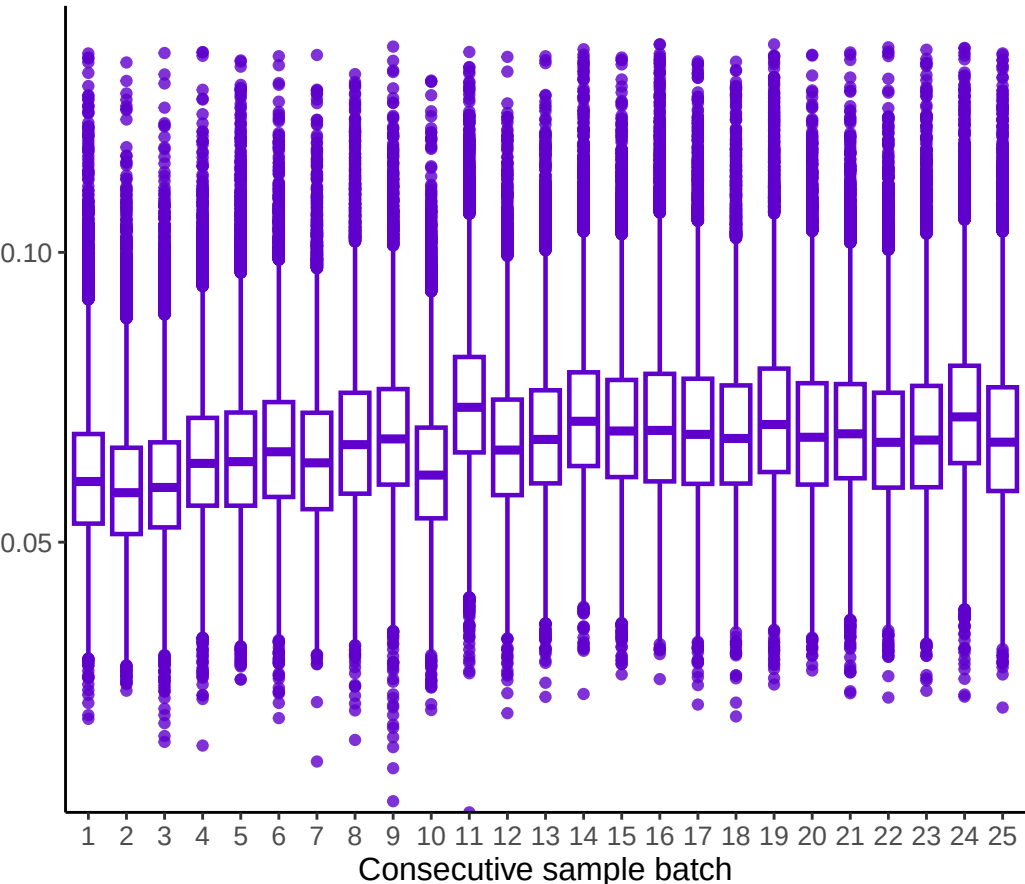
Lactate



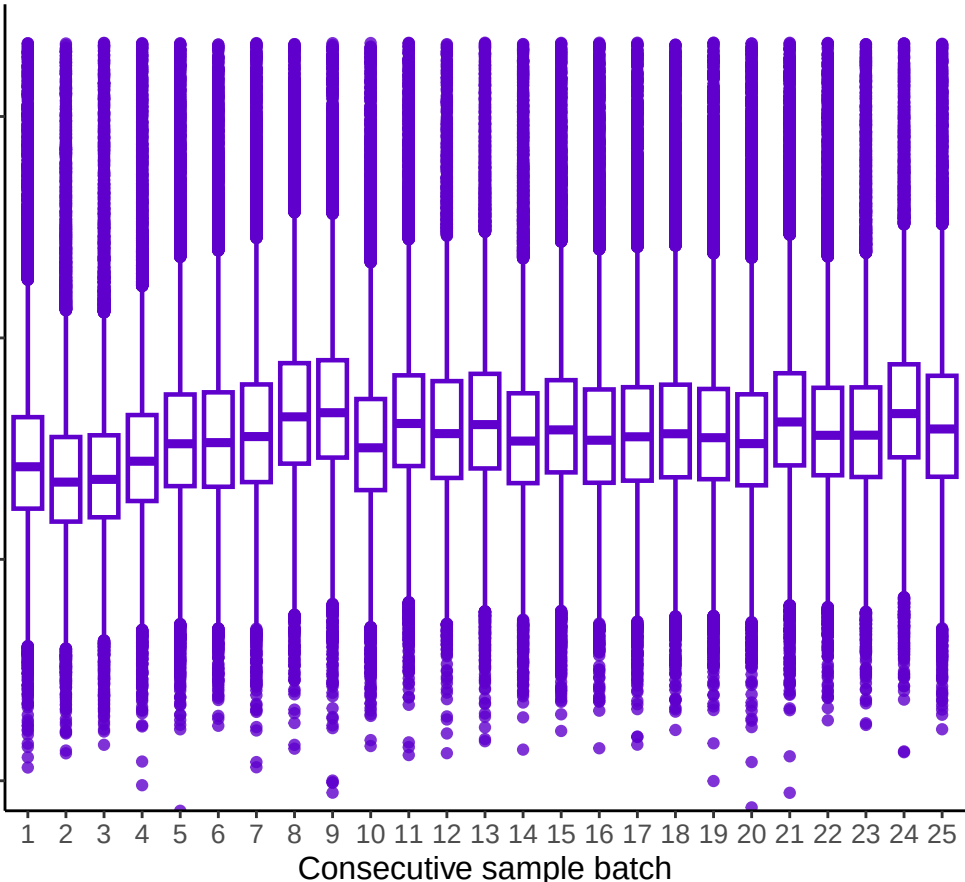
Pyruvate



Citrate

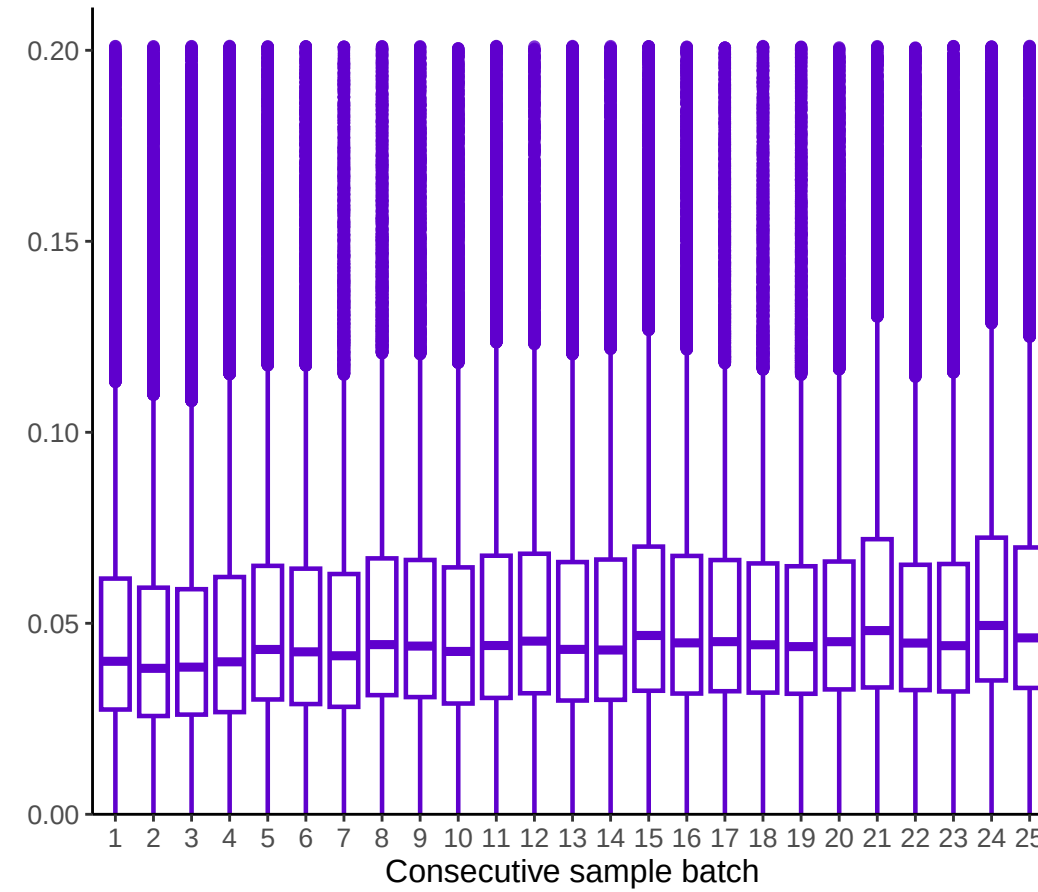


Glucose_Lactate

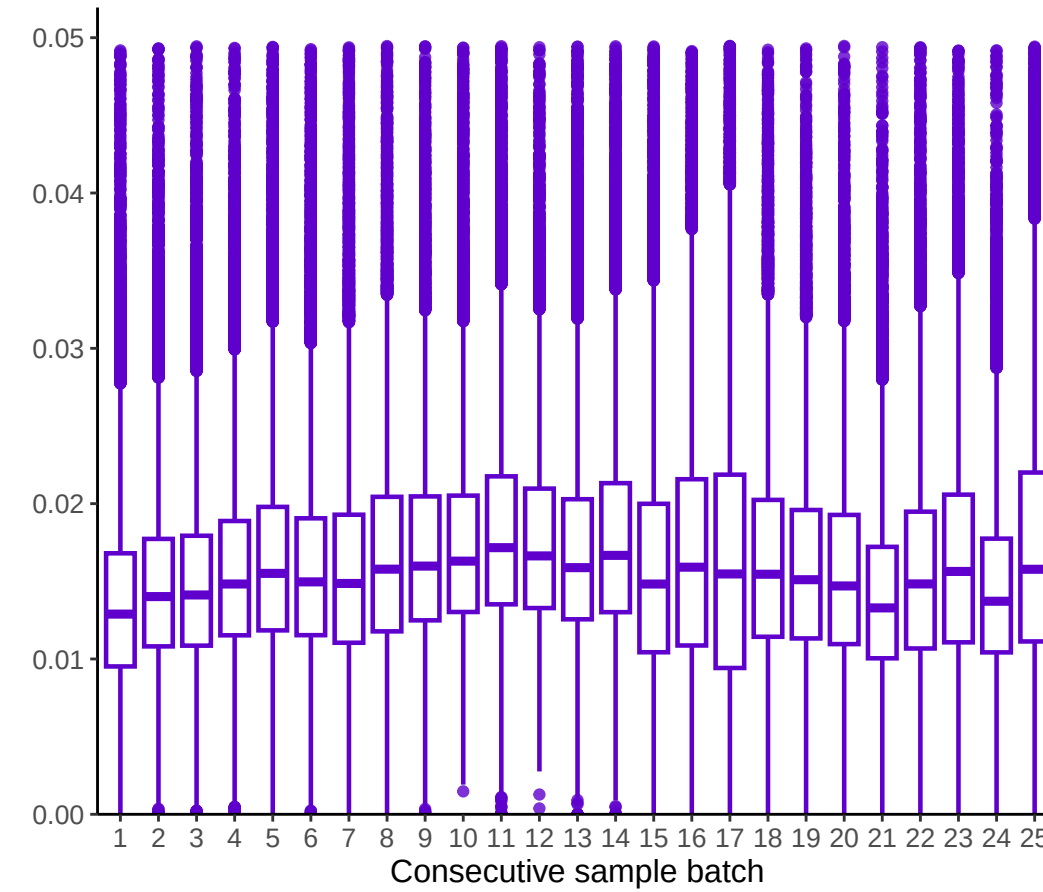


Ketone bodies

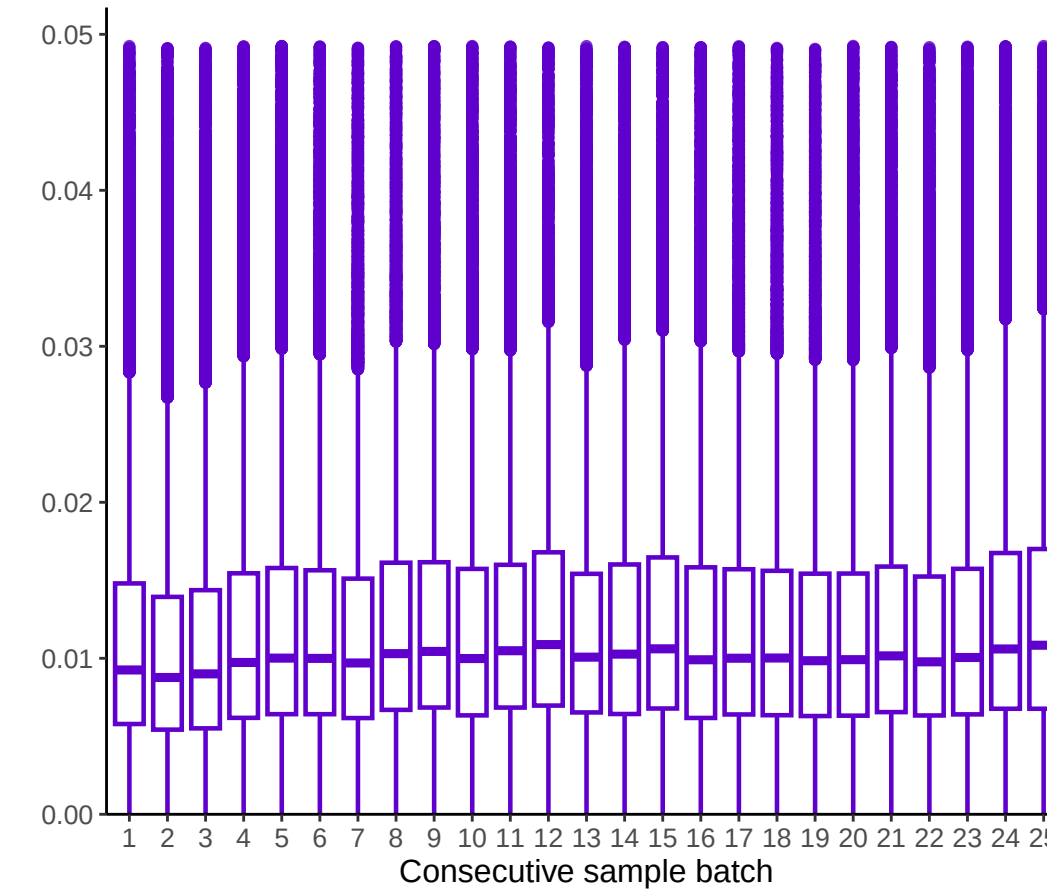
bOHbutyrate



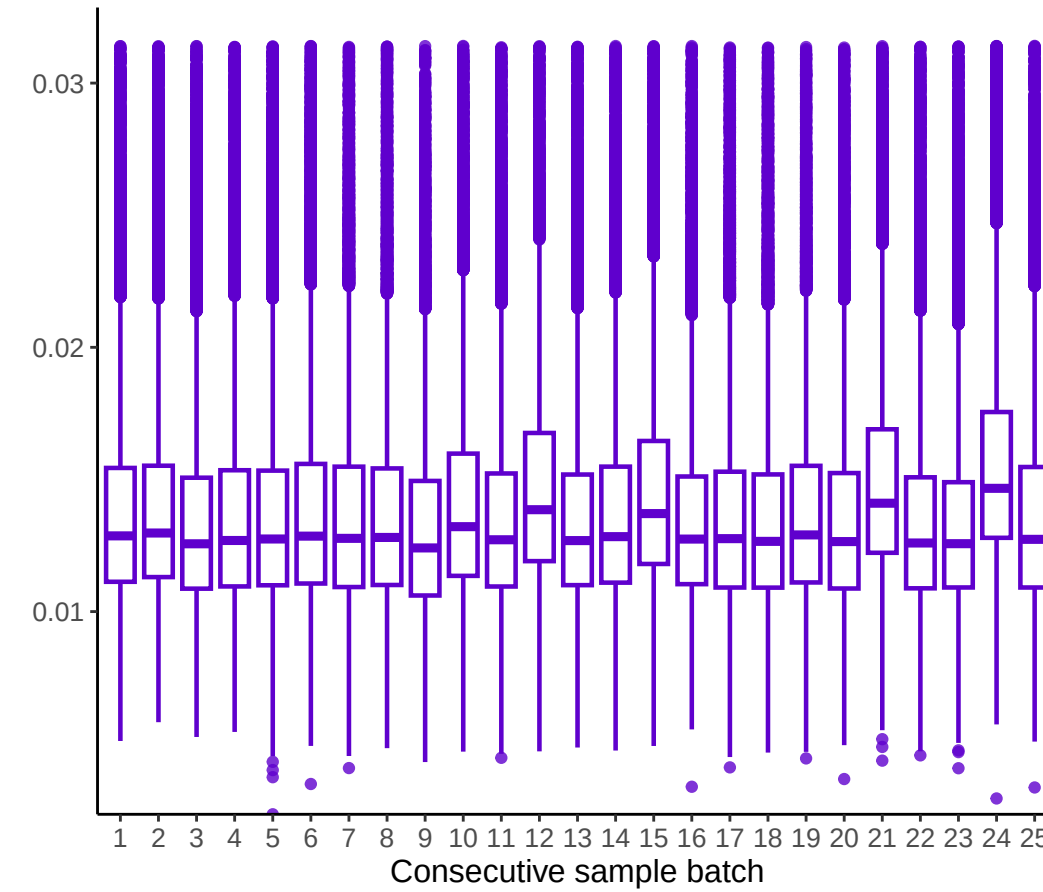
Acetate



Acetoacetate

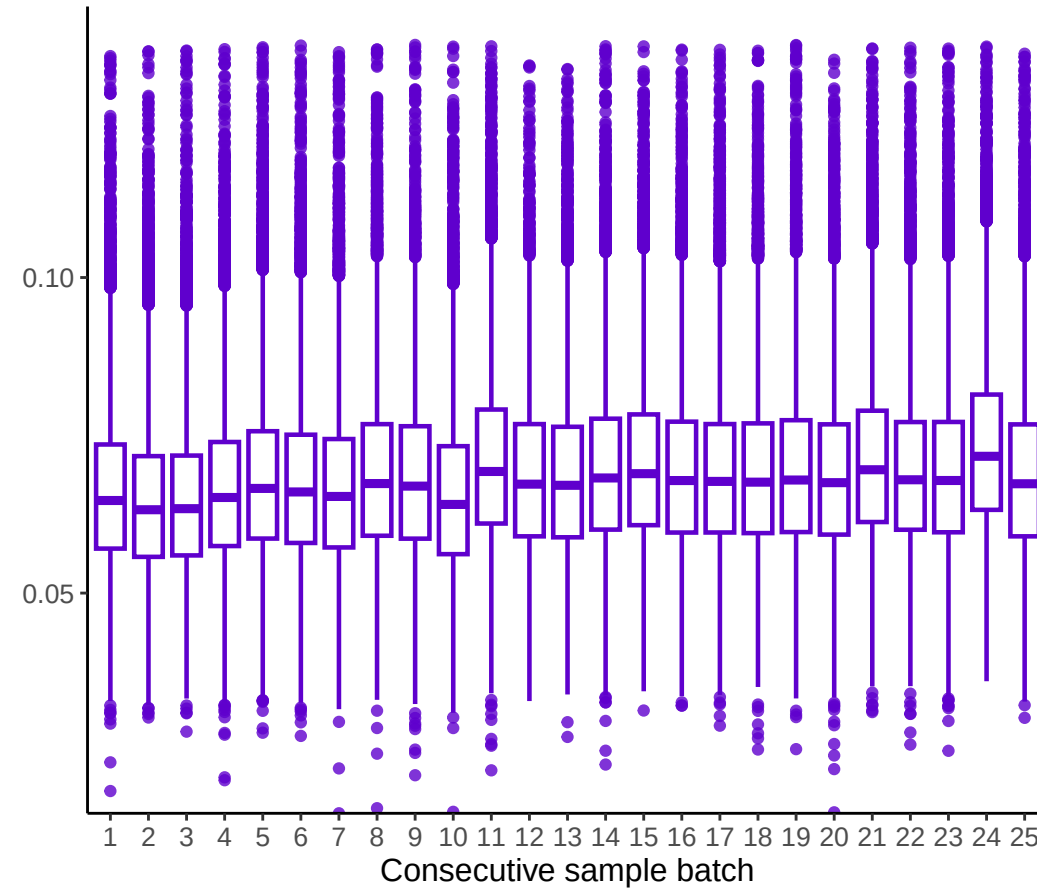


Acetone

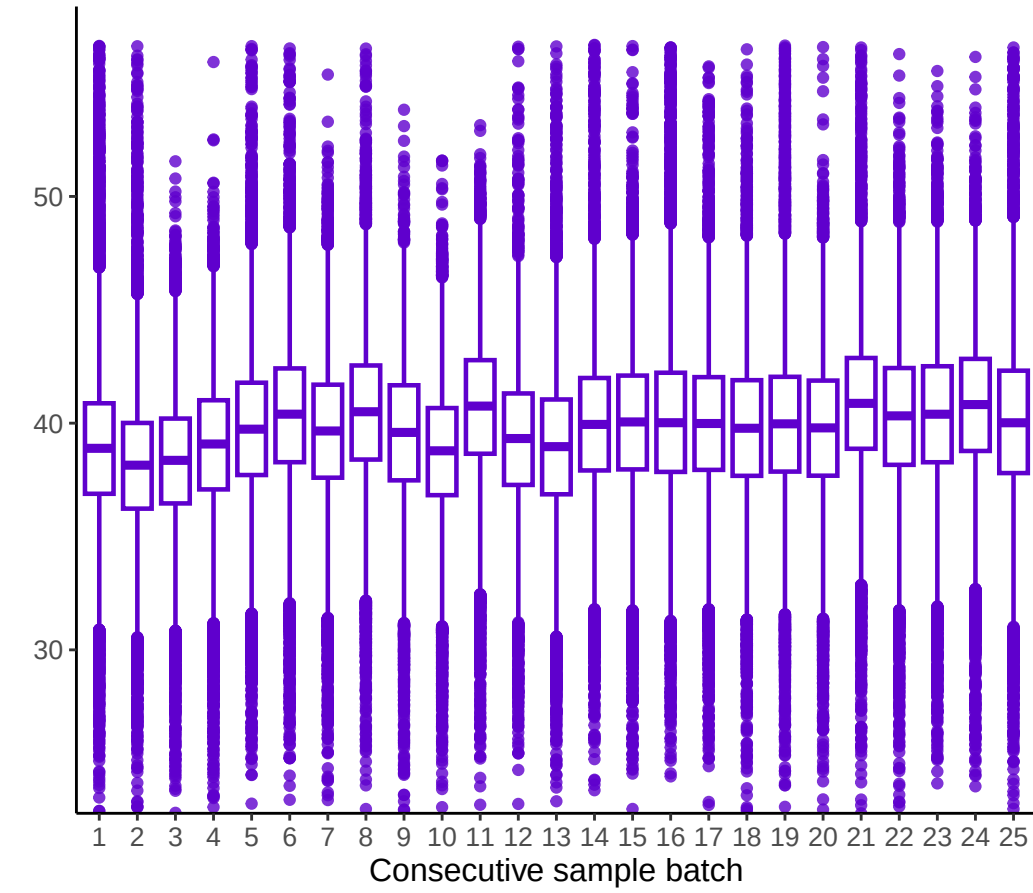


Fluid balance

Creatinine

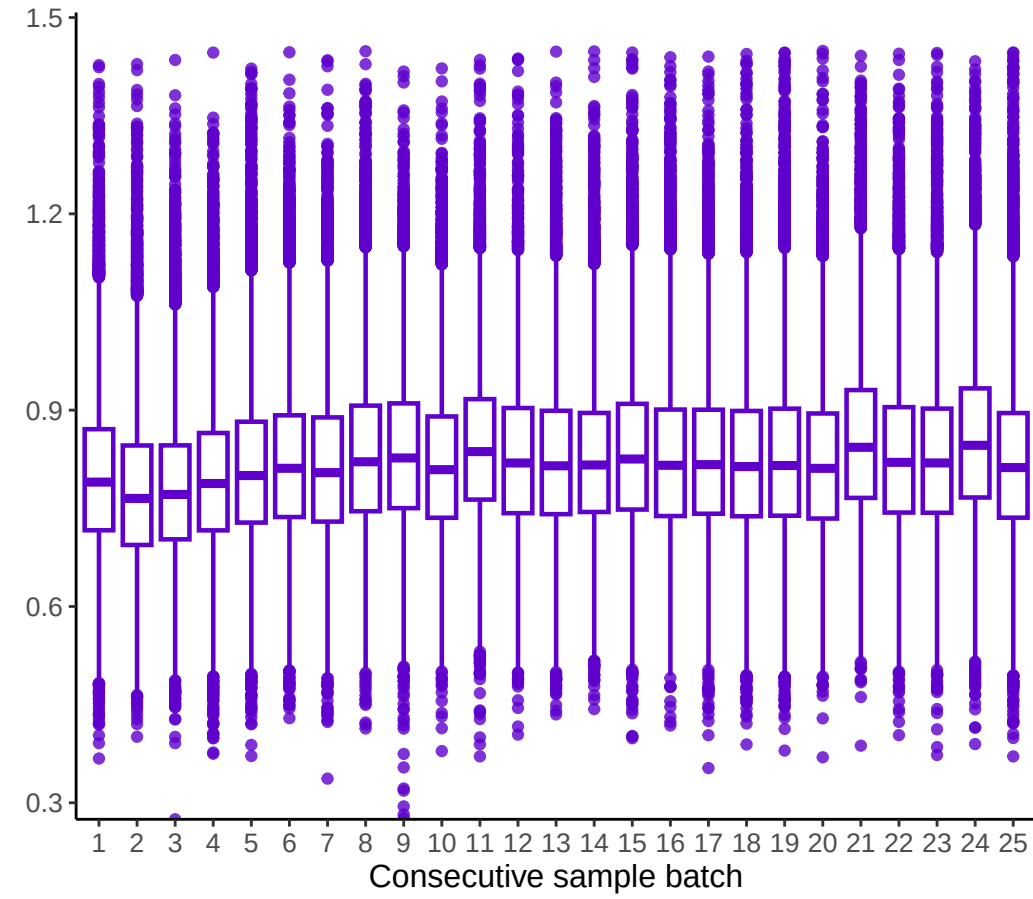


Albumin



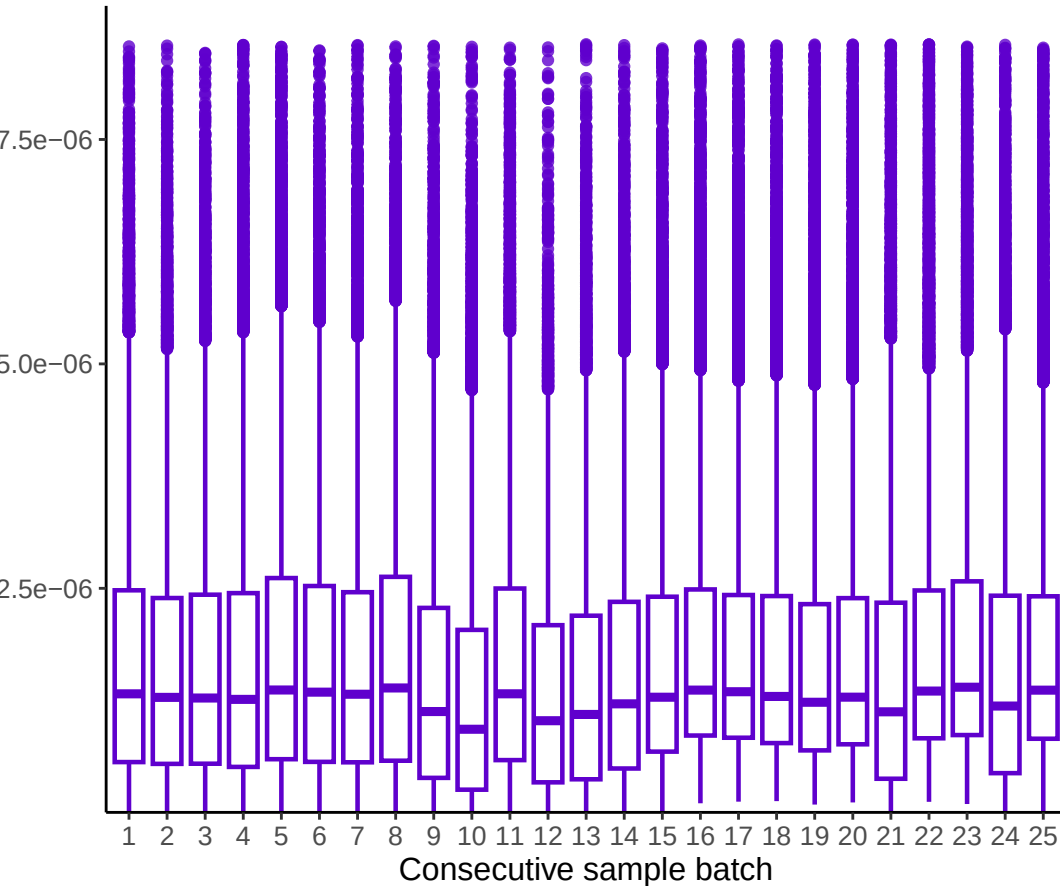
Inflammation

GlycA

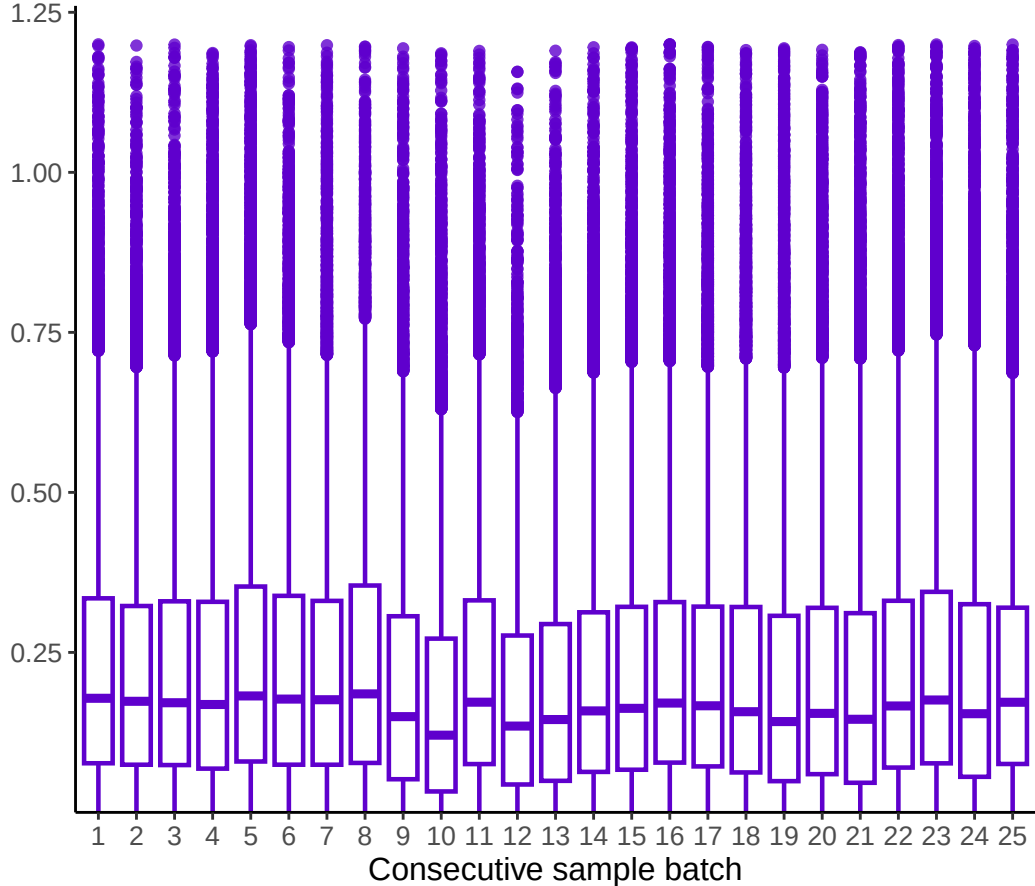


Chylomicrons and extremely large VLDL (particle diameters from 75 nm upwards)

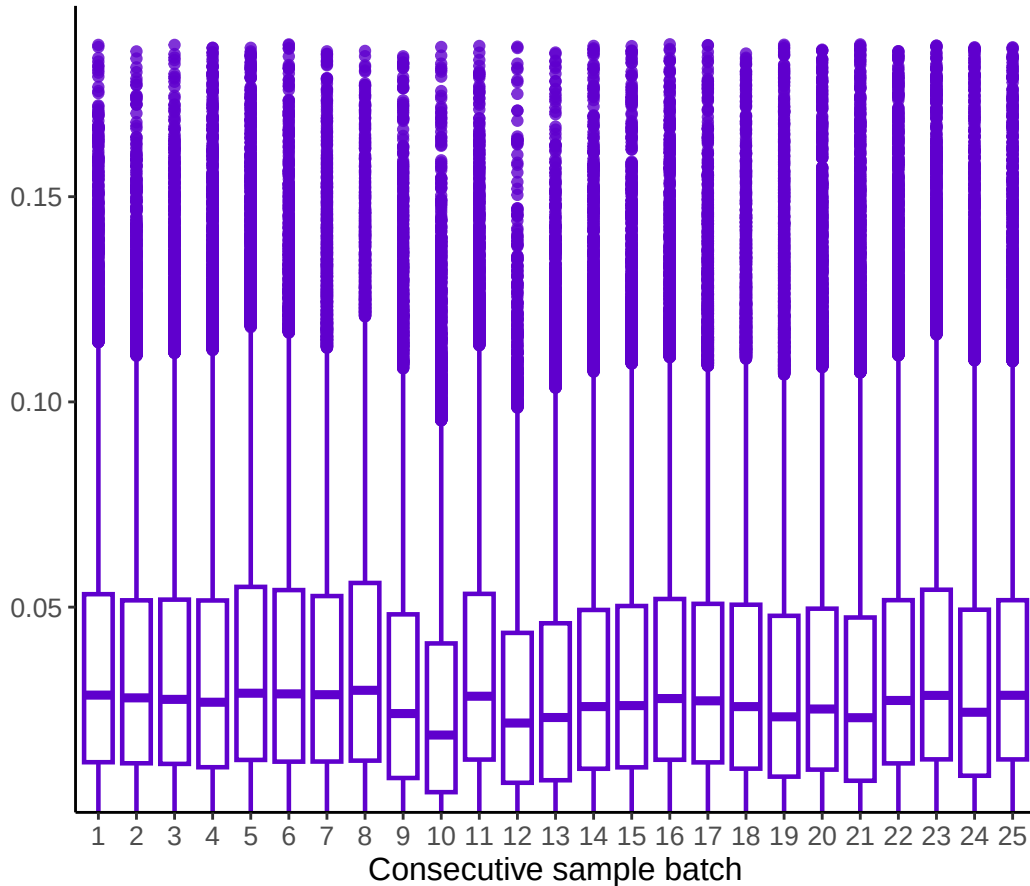
XXL_VLDL_P



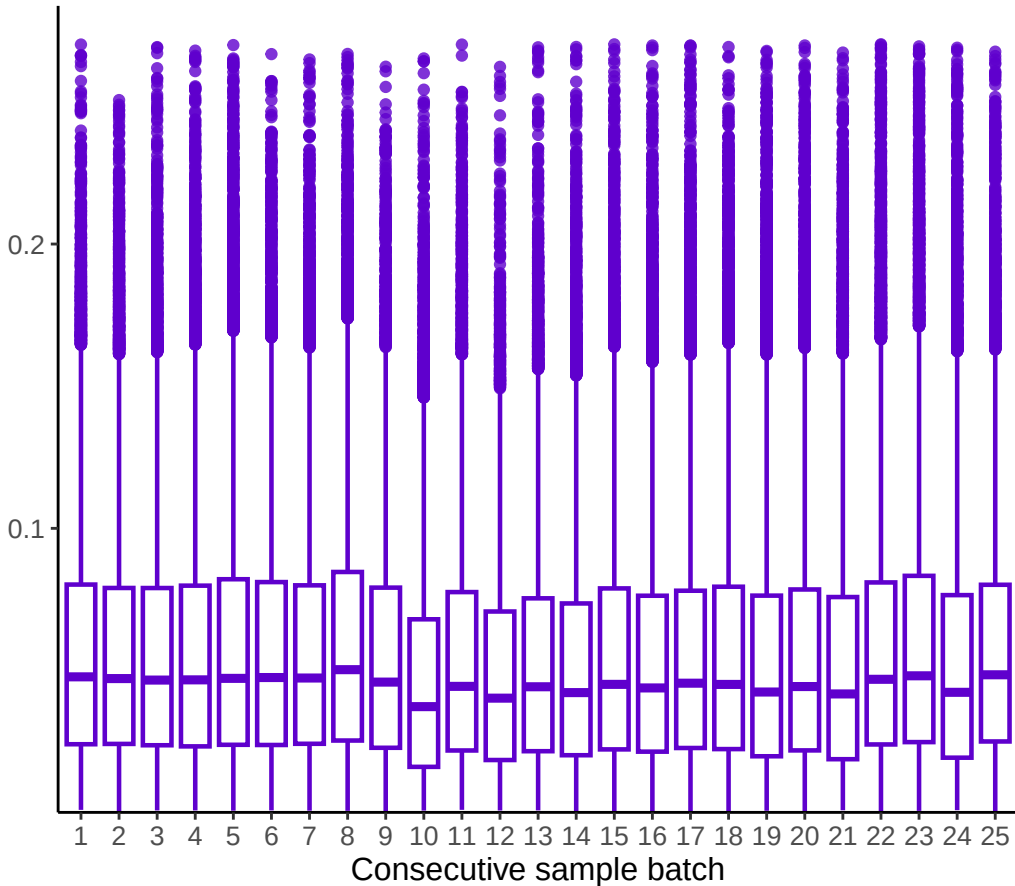
XXL_VLDL_L



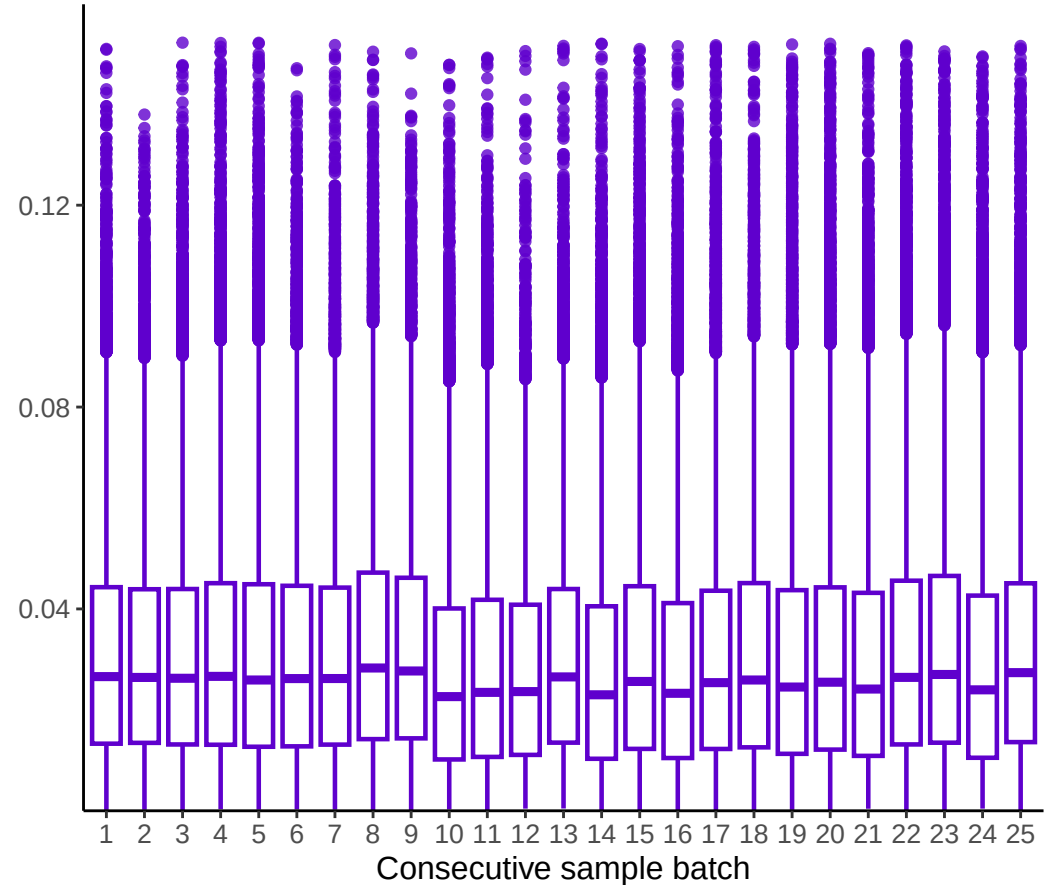
XXL_VLDL_PL



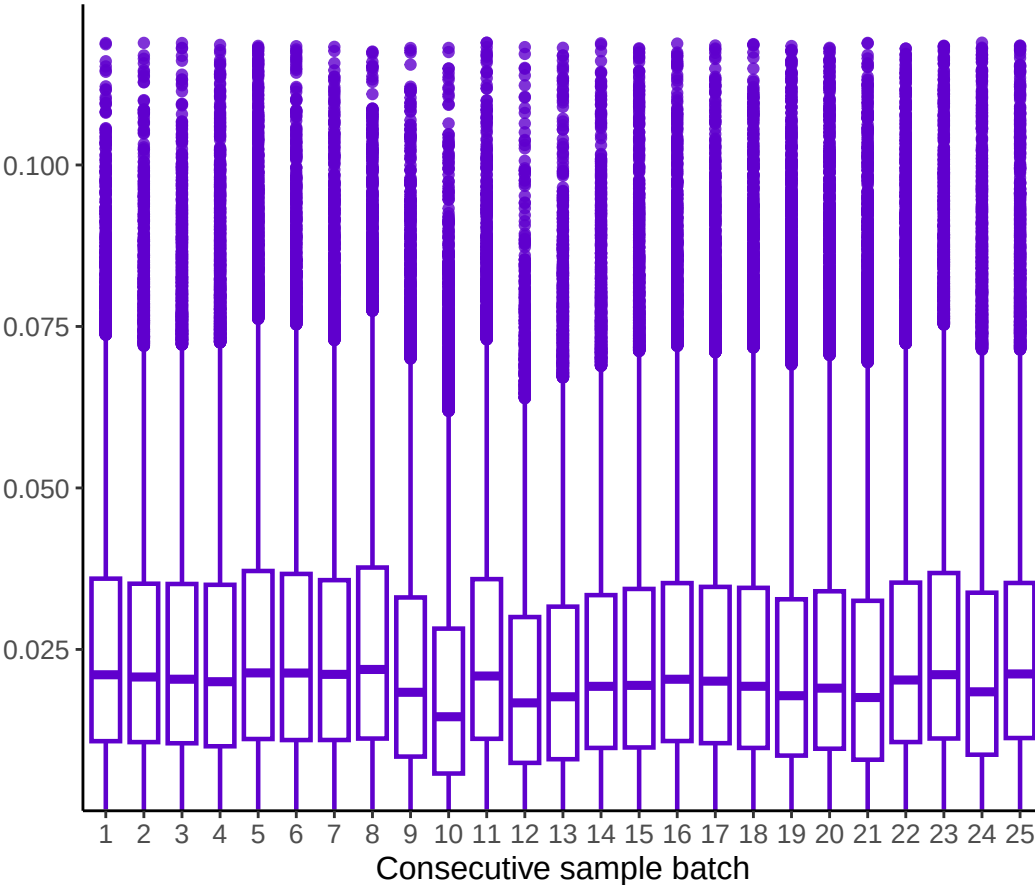
XXL_VLDL_C



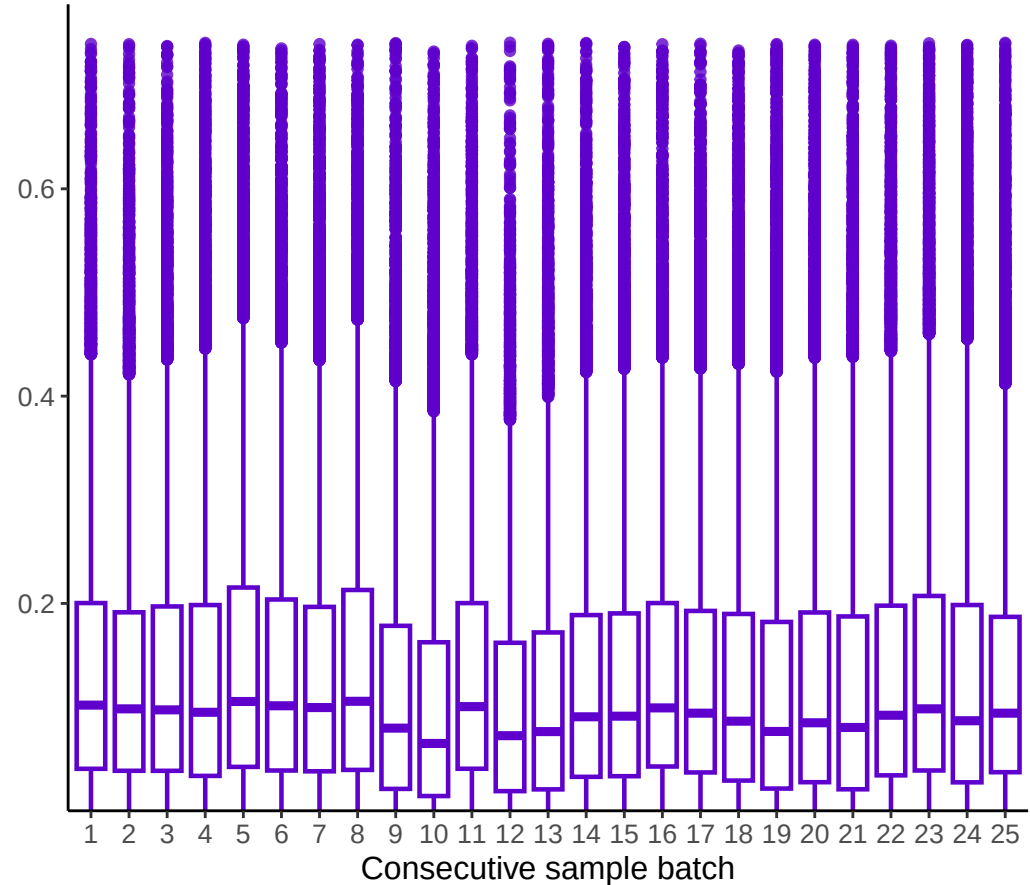
XXL_VLDL_CE



XXL_VLDL_FC

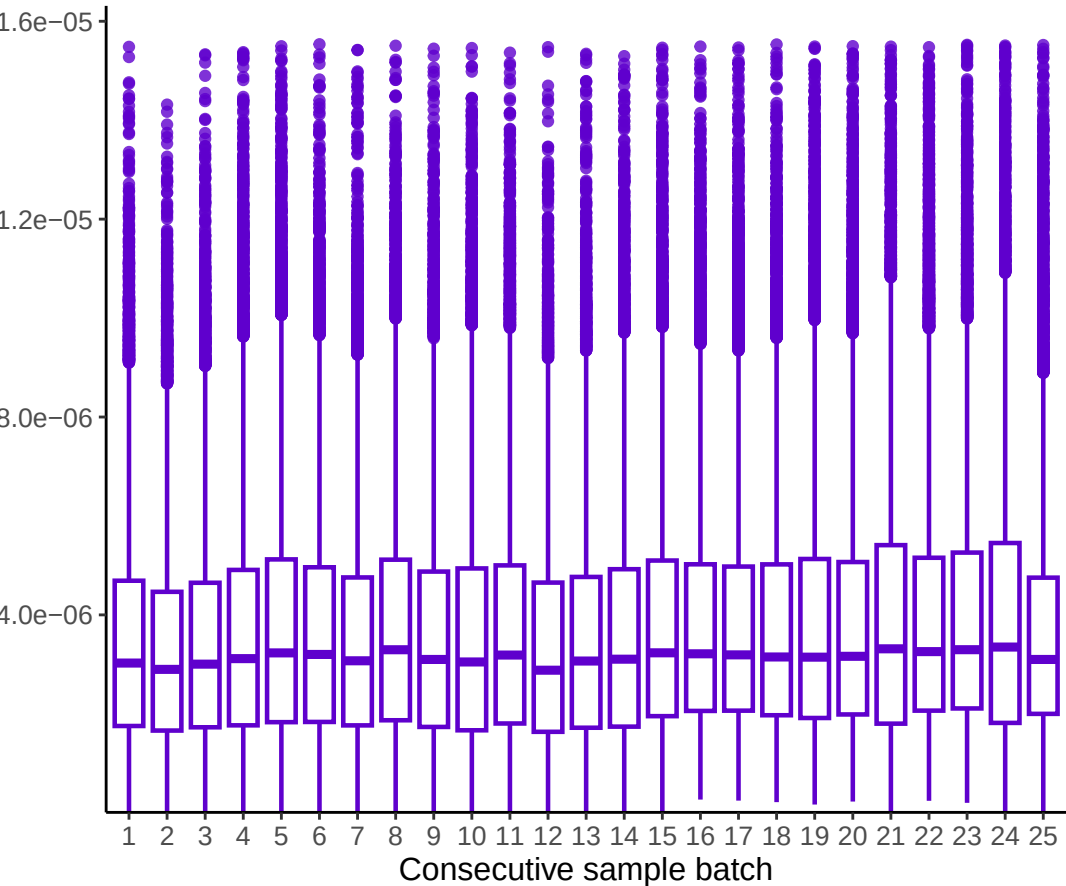


XXL_VLDL_TG

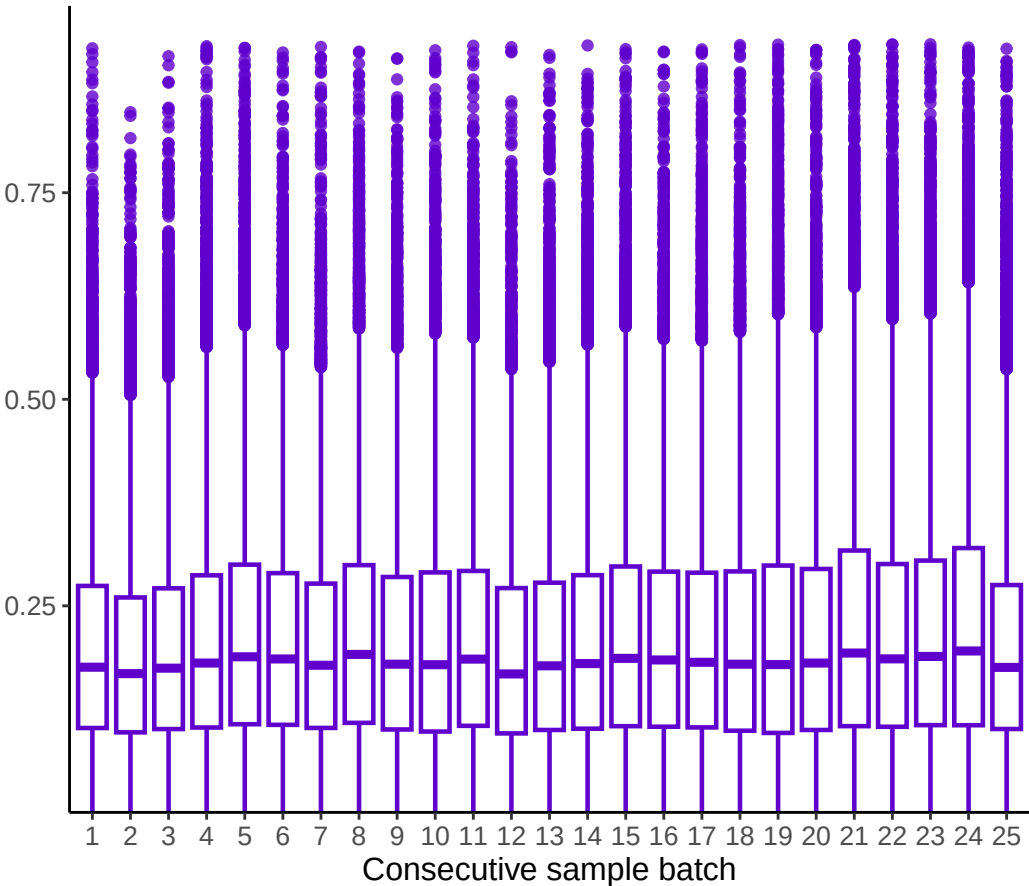


Very large VLDL (average diameter 64 nm)

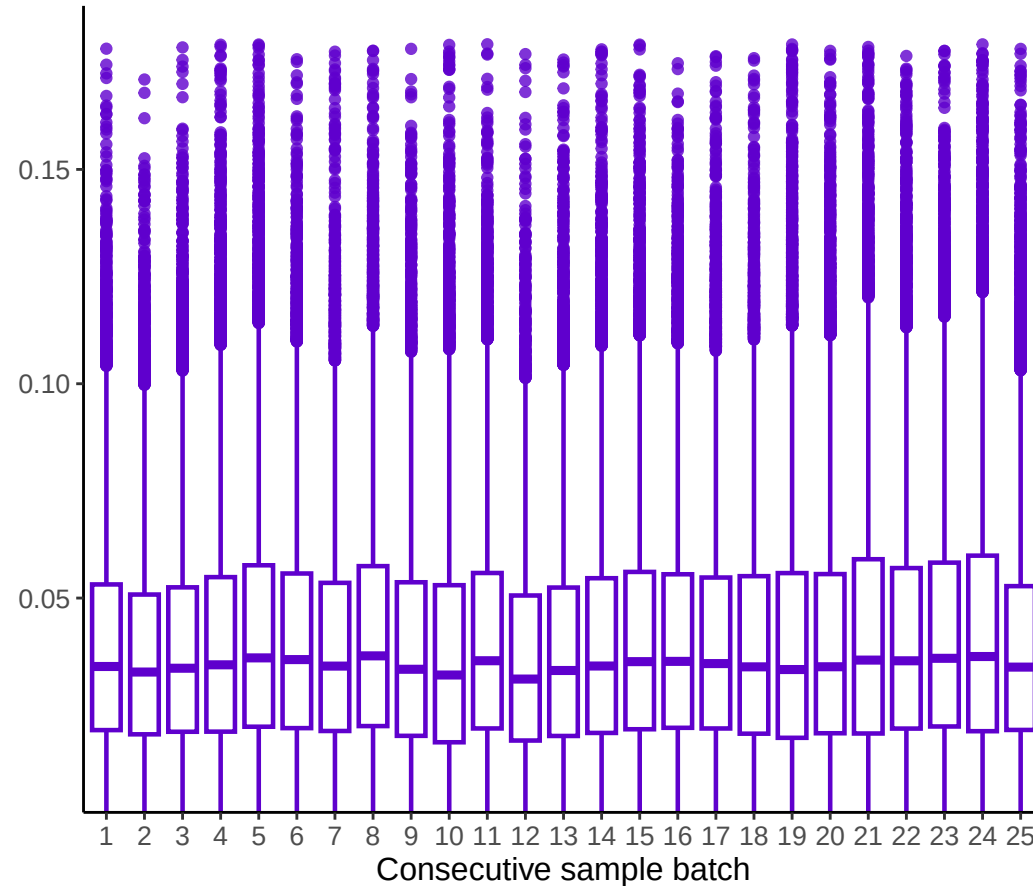
XL_VLDL_P



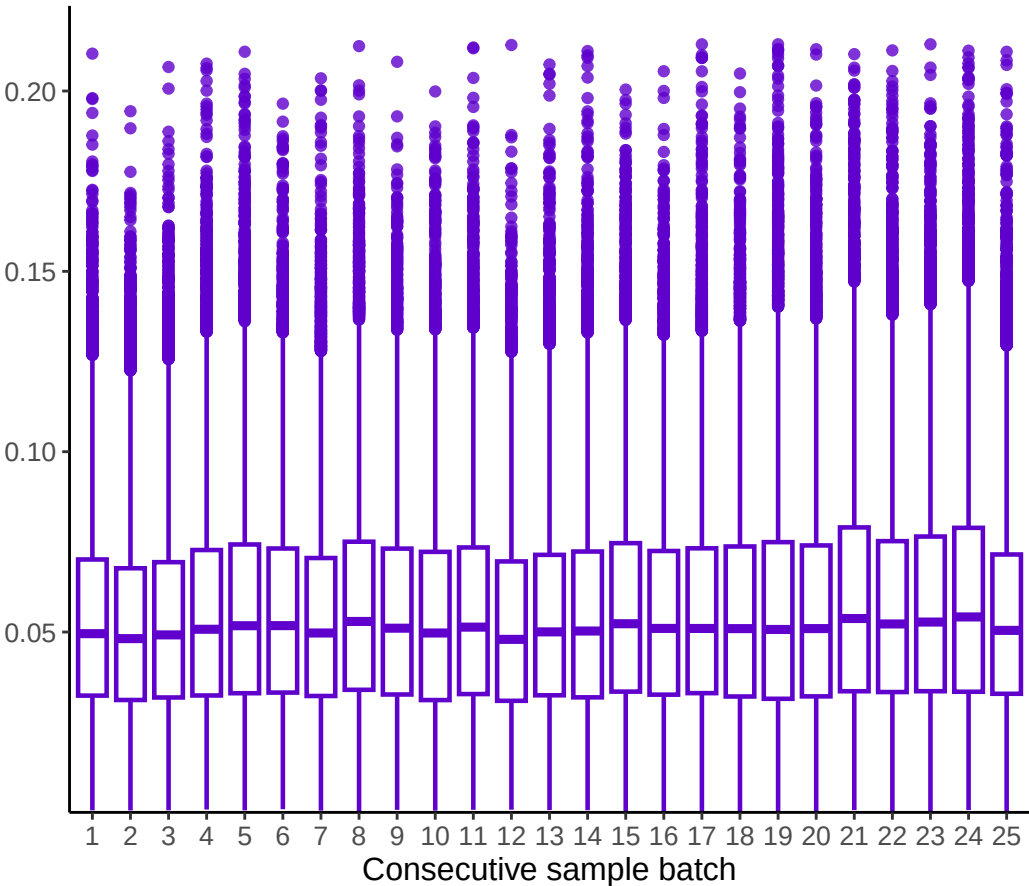
XL_VLDL_L



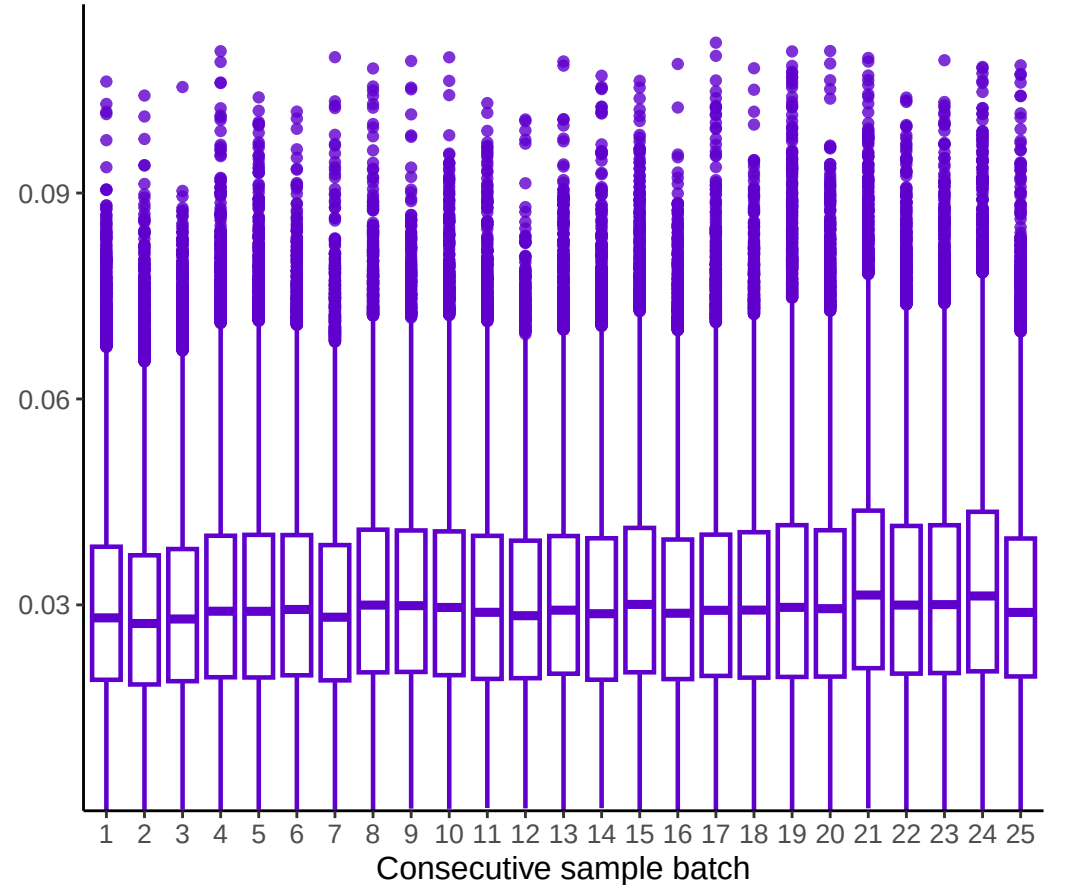
XL_VLDL_PL



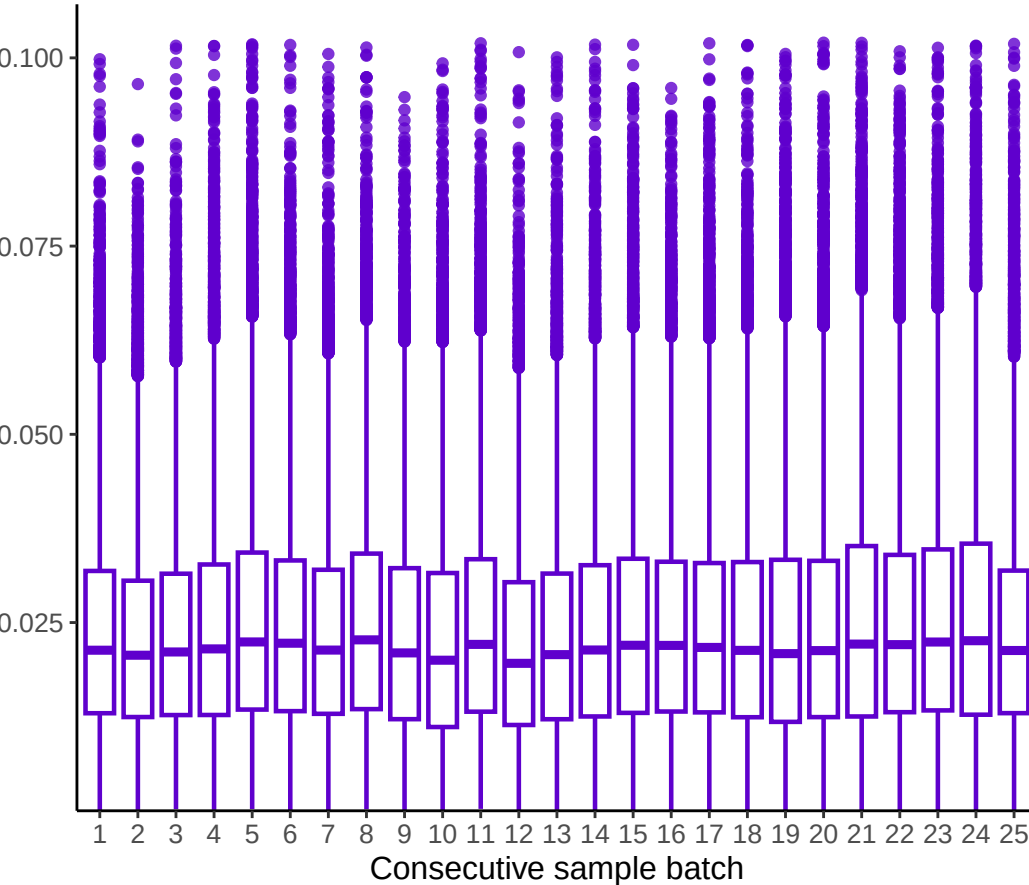
XL_VLDL_C



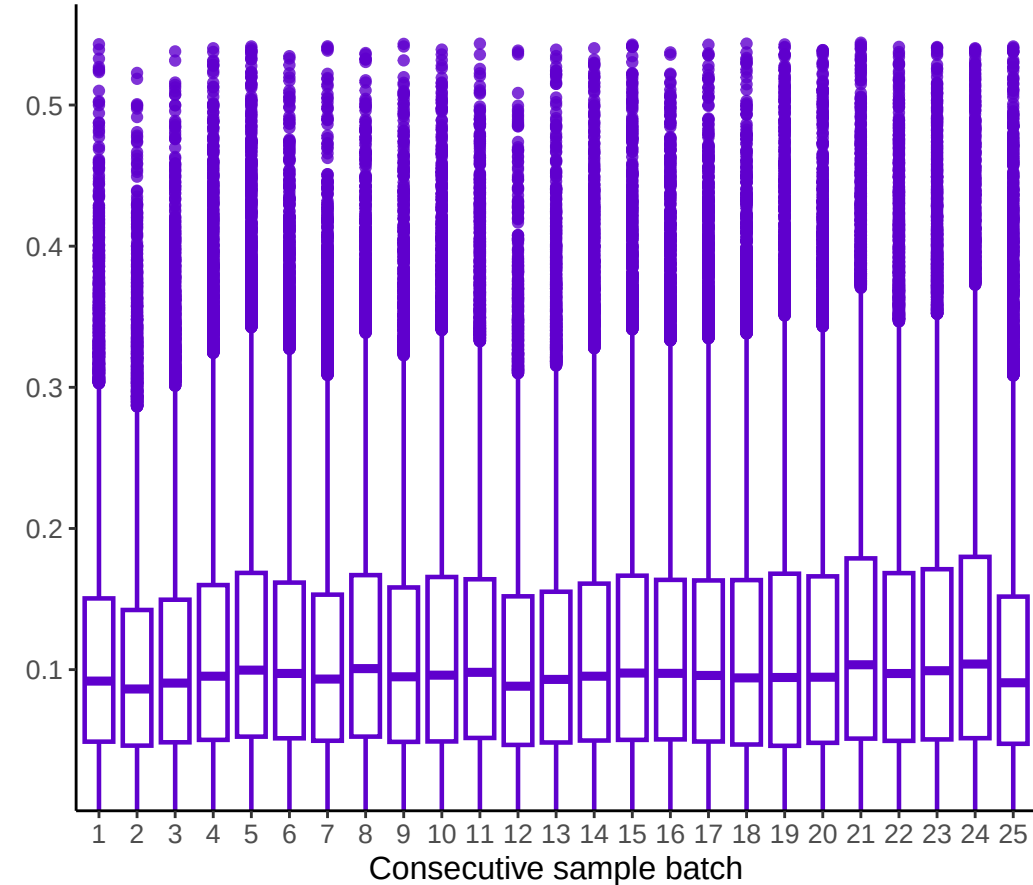
XL_VLDL_CE



XL_VLDL_FC

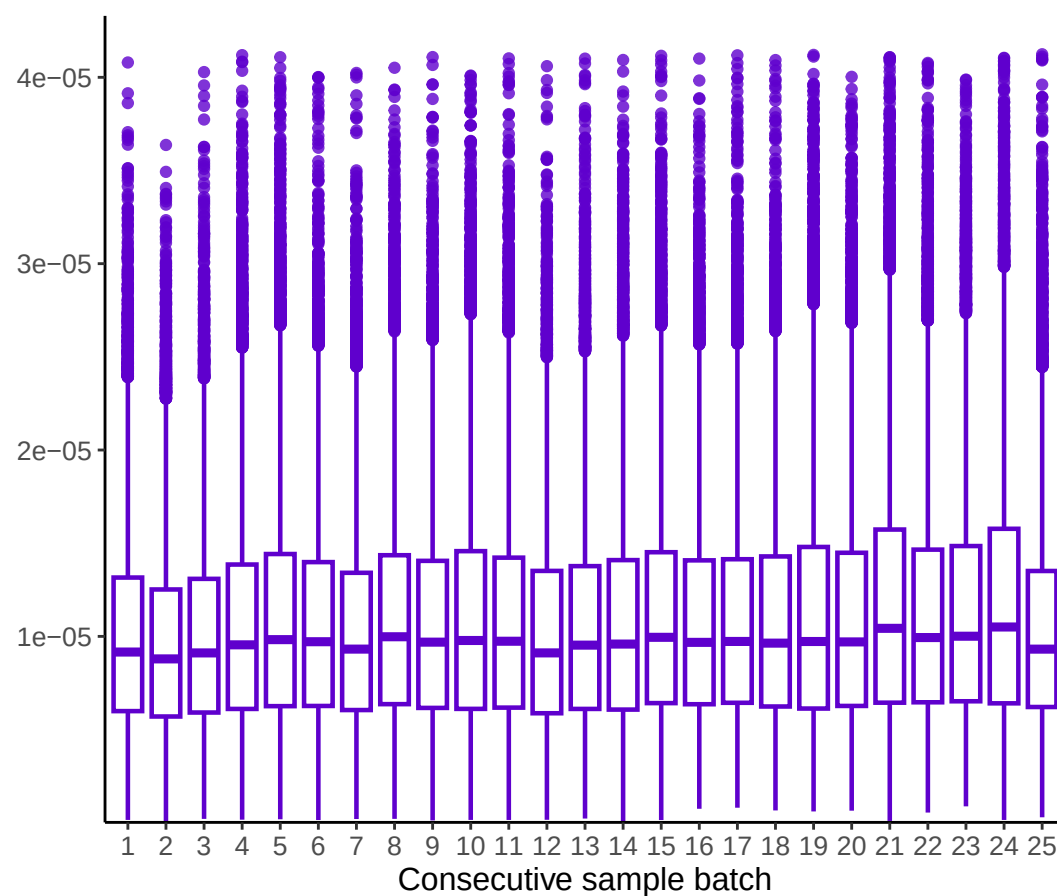


XL_VLDL_TG

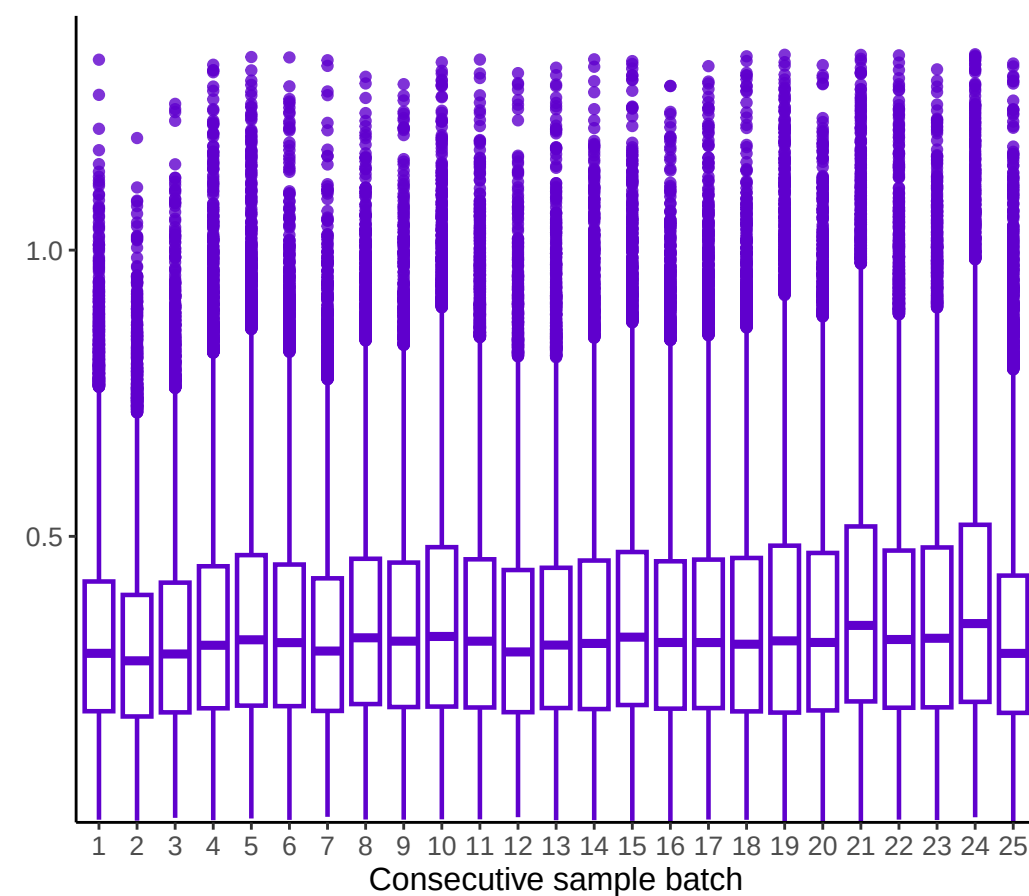


Large VLDL (average diameter 53.6 nm)

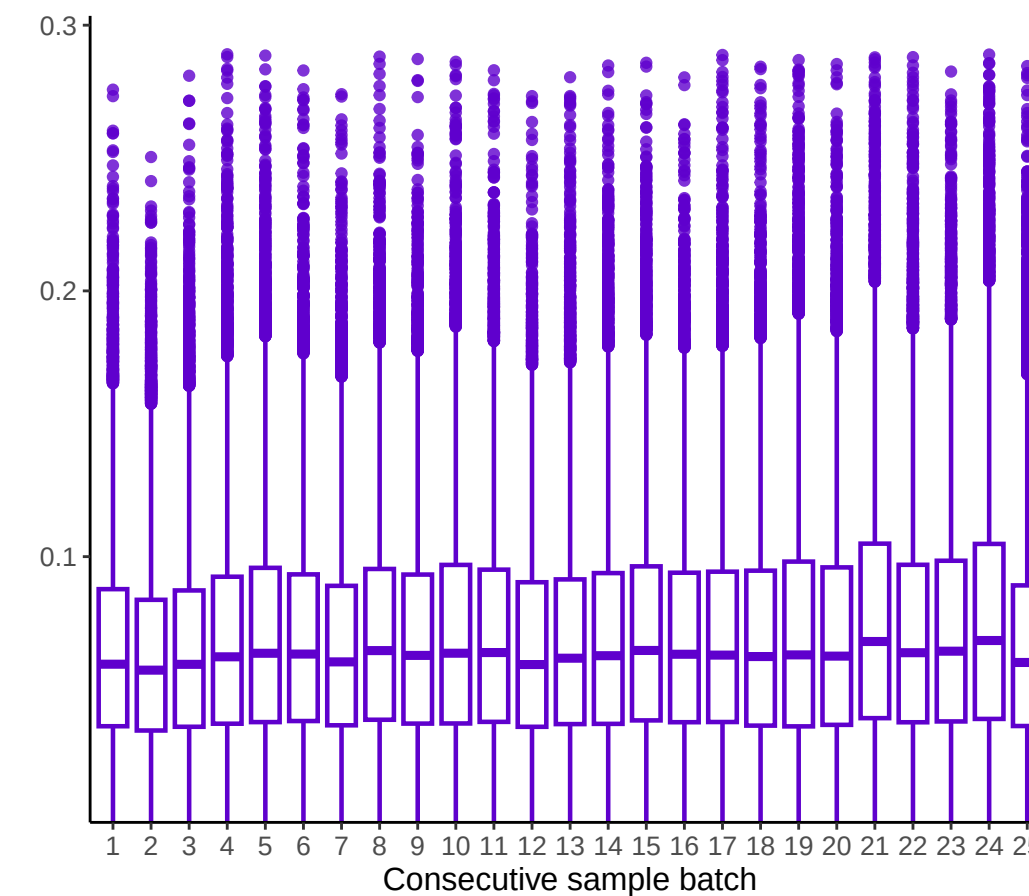
L_VLDL_P



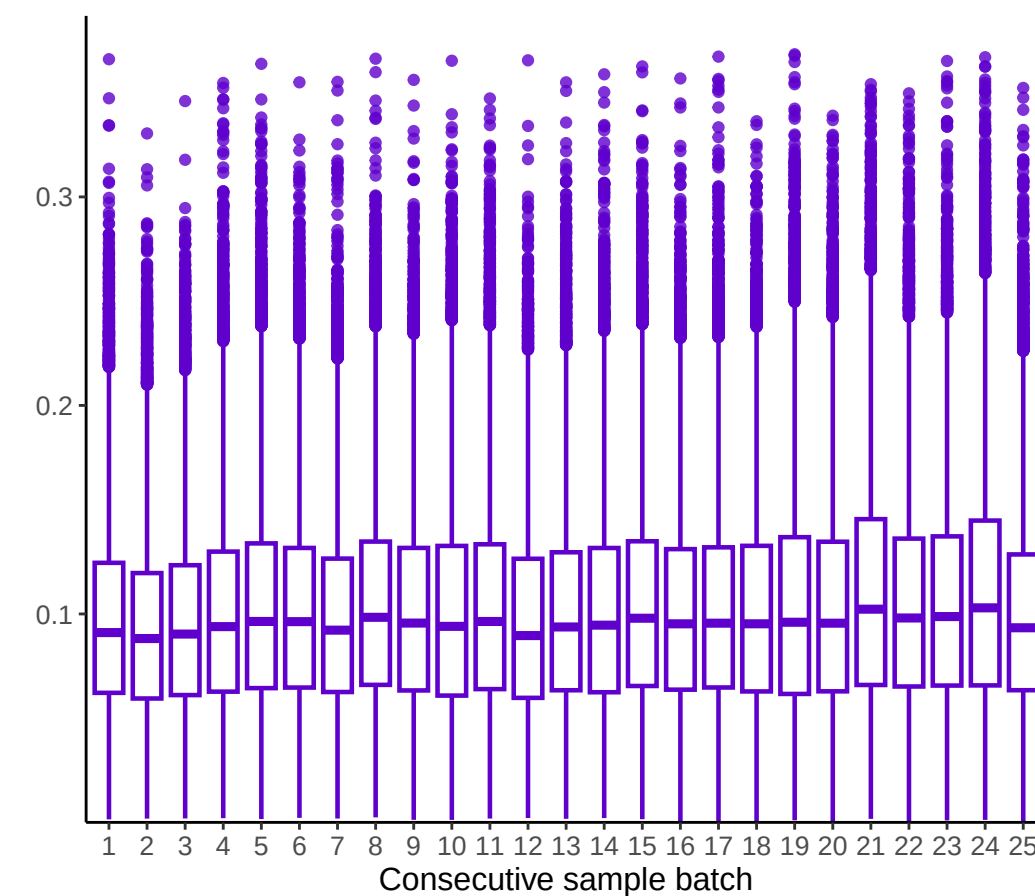
L_VLDL_L



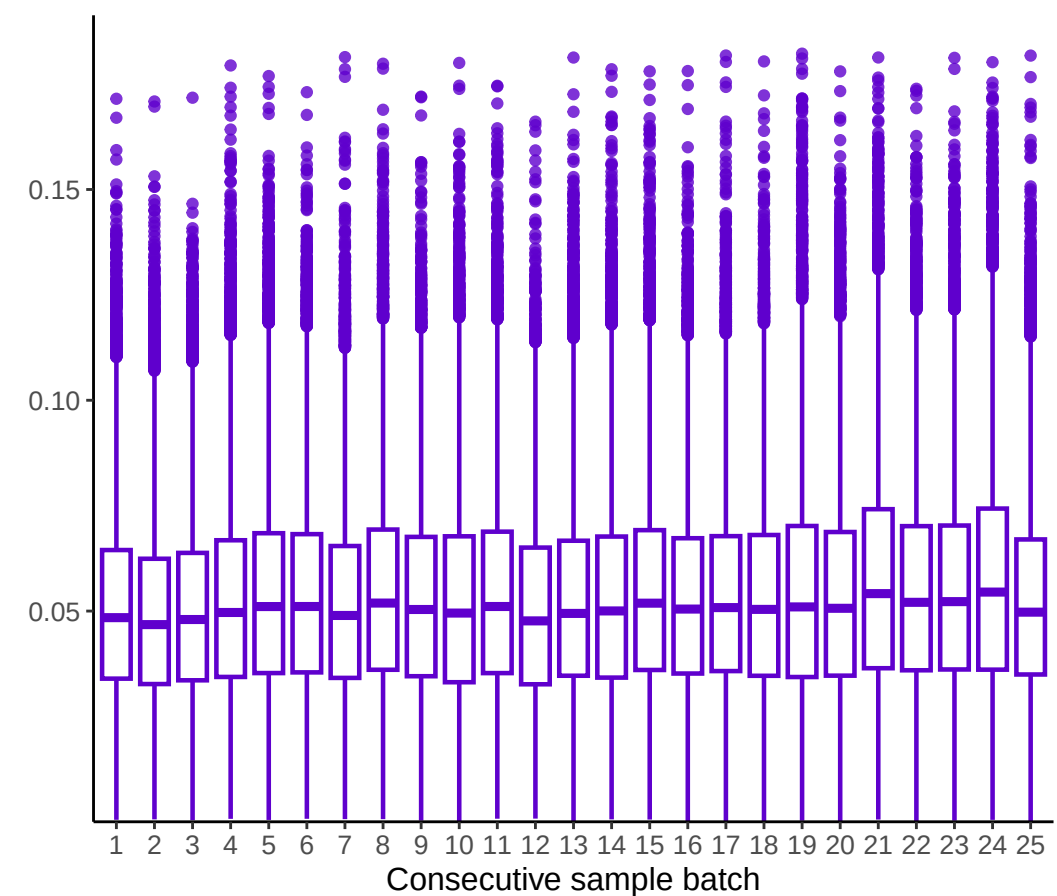
L_VLDL_PL



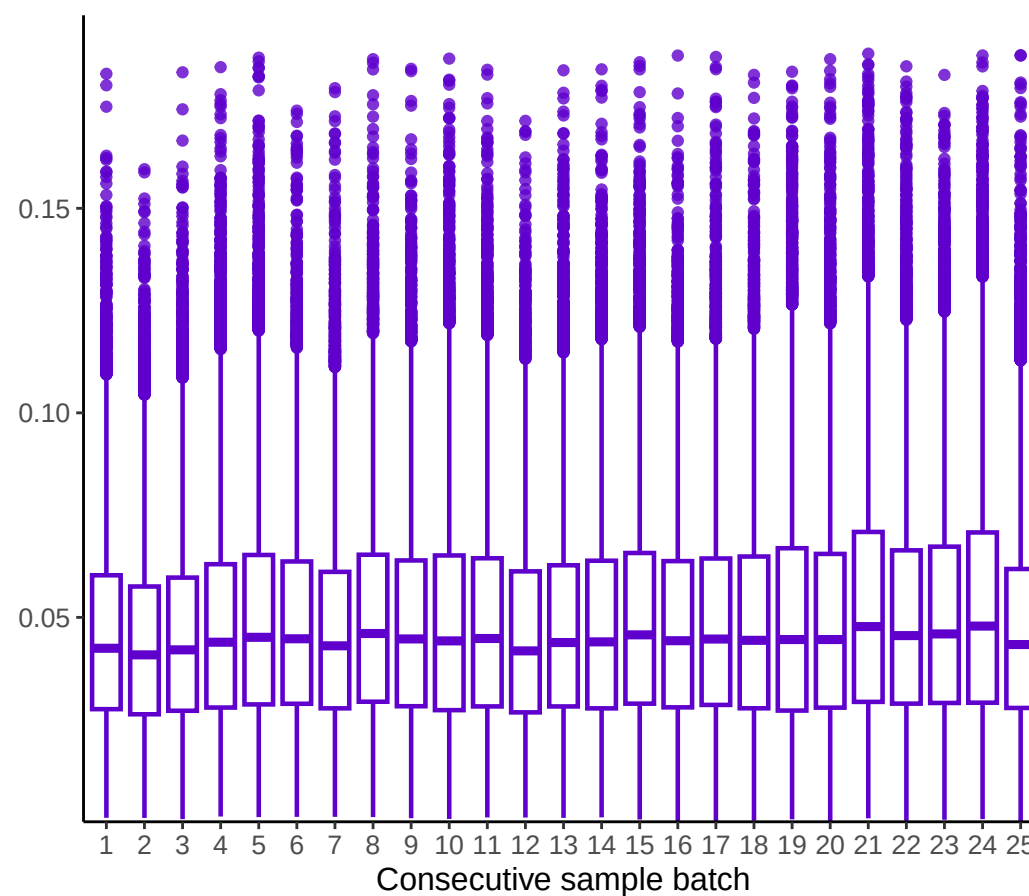
L_VLDL_C



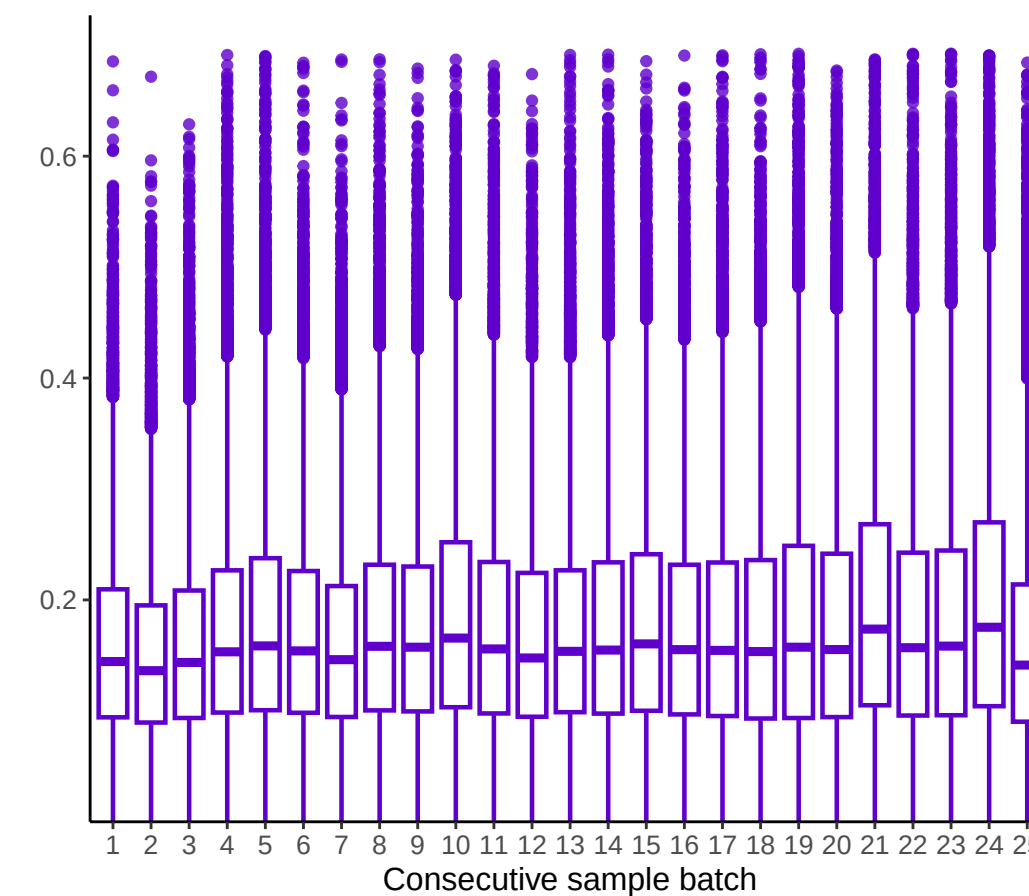
L_VLDL_CE



L_VLDL_FC

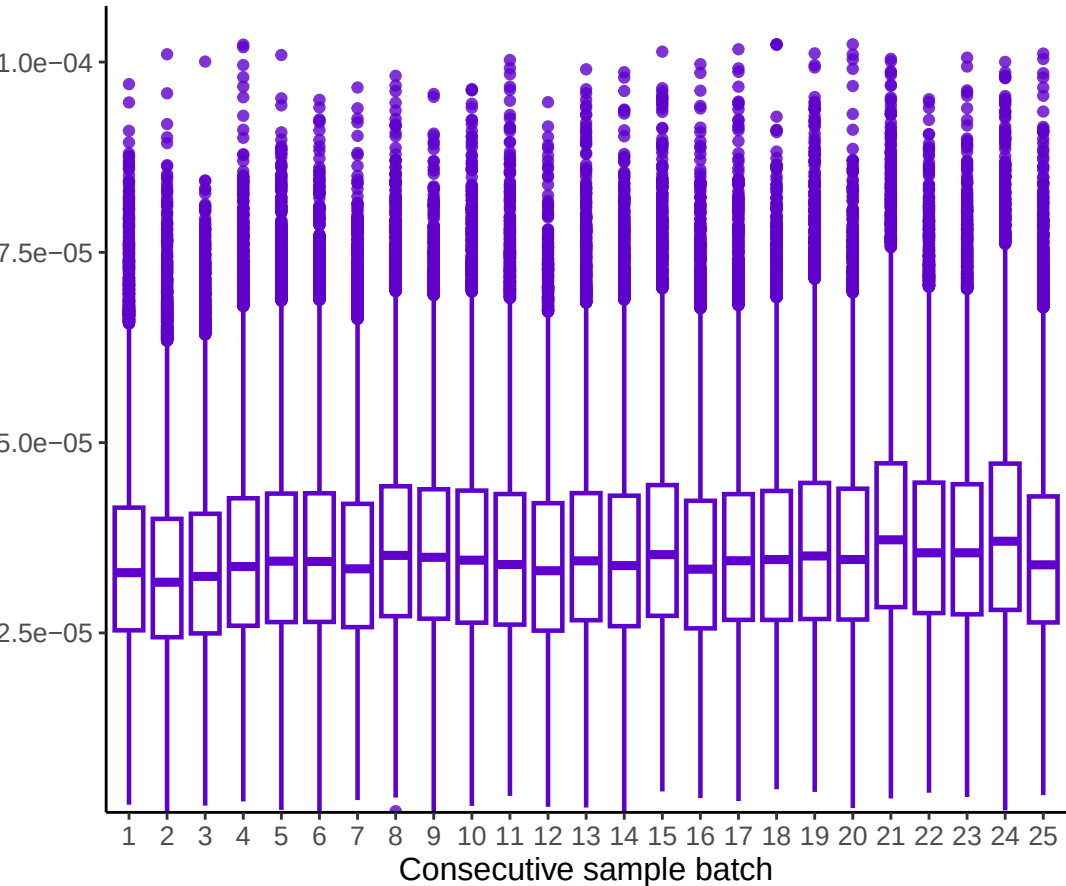


L_VLDL_TG

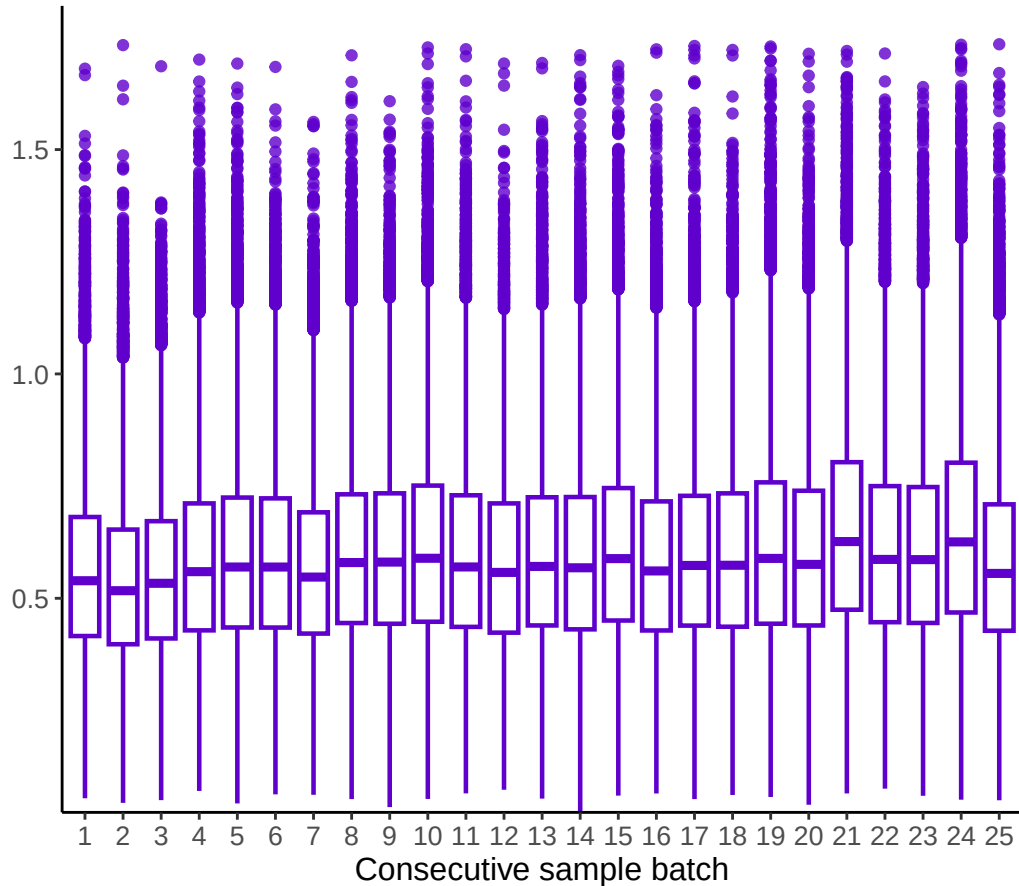


Medium VLDL (average diameter 44.5 nm)

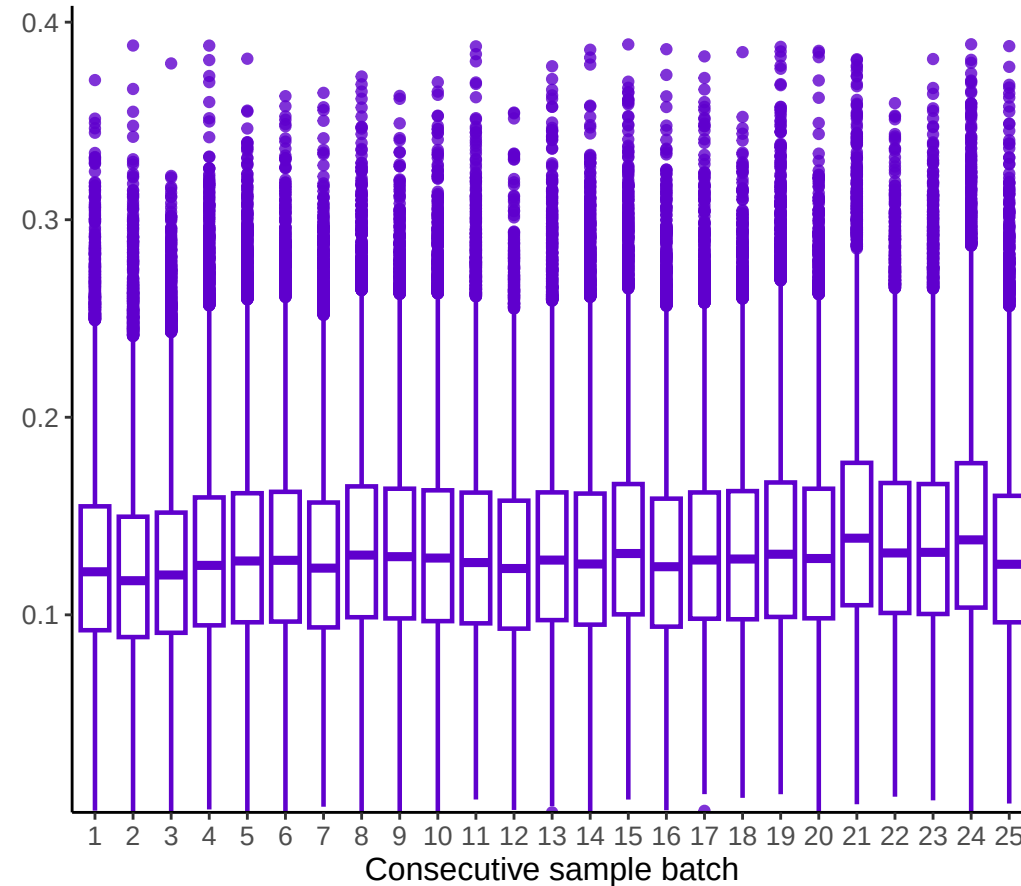
M_VLDL_P



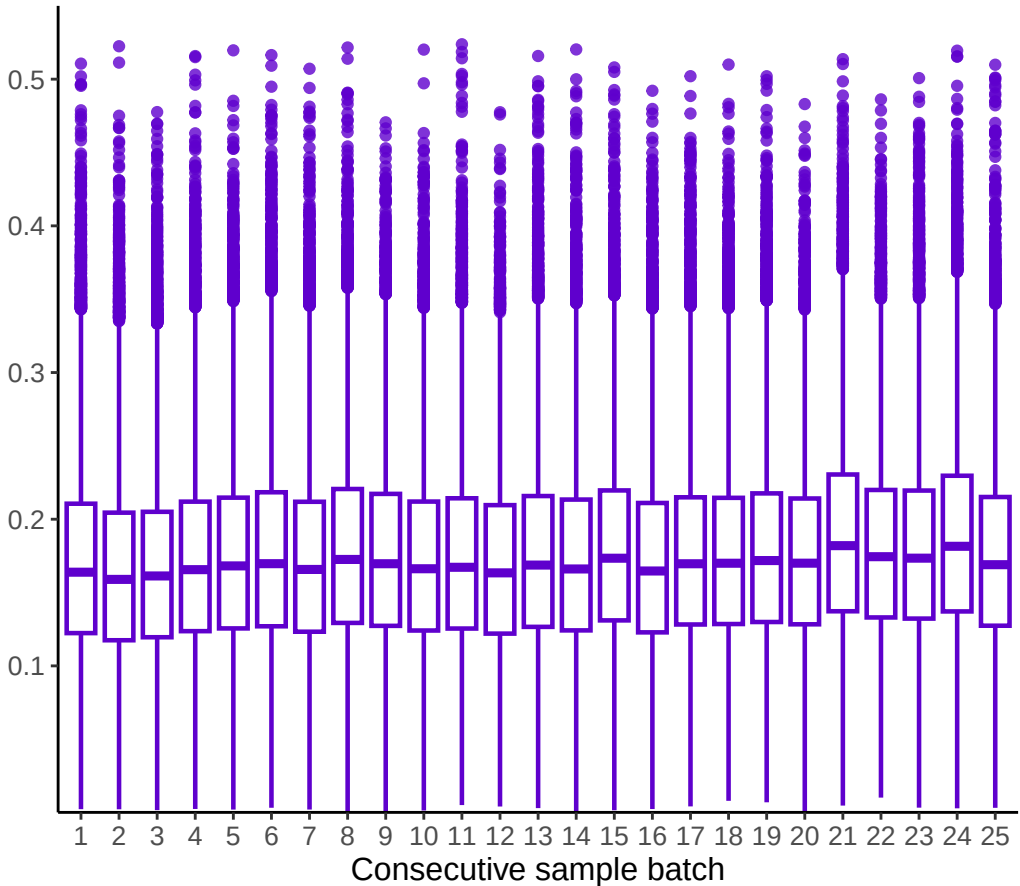
M_VLDL_L



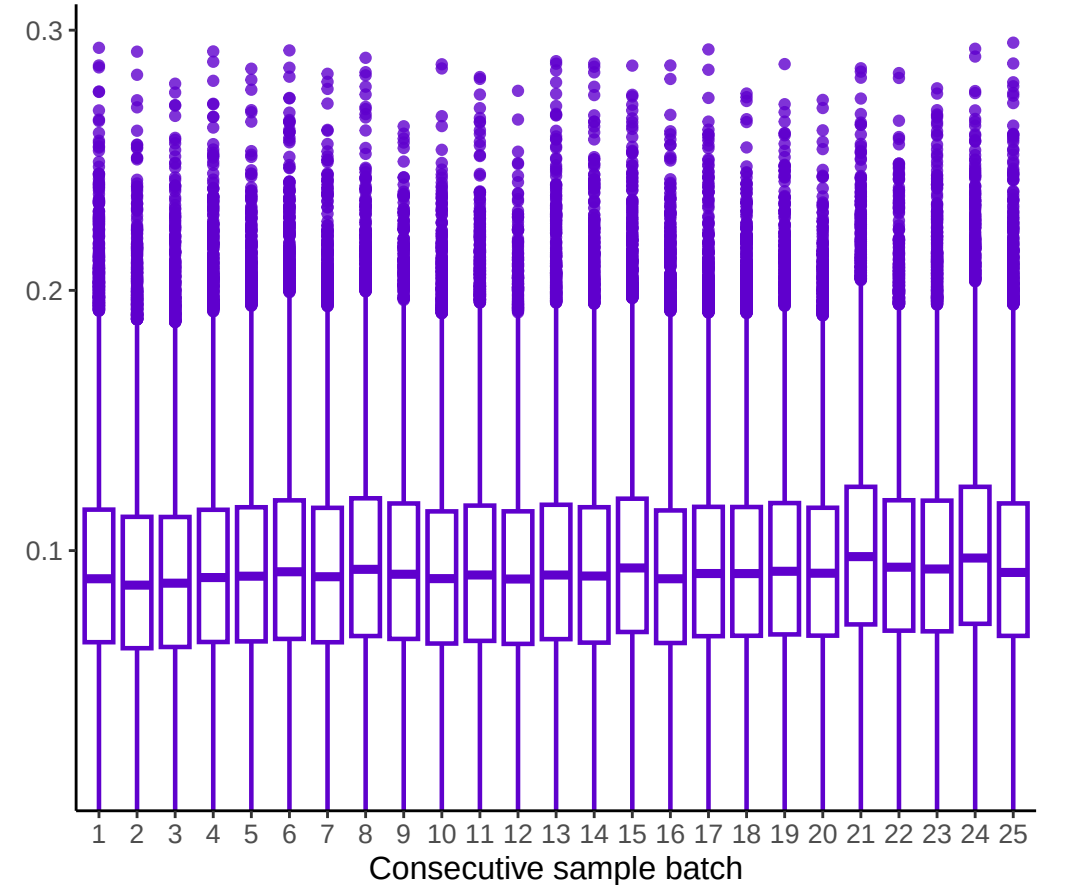
M_VLDL_PL



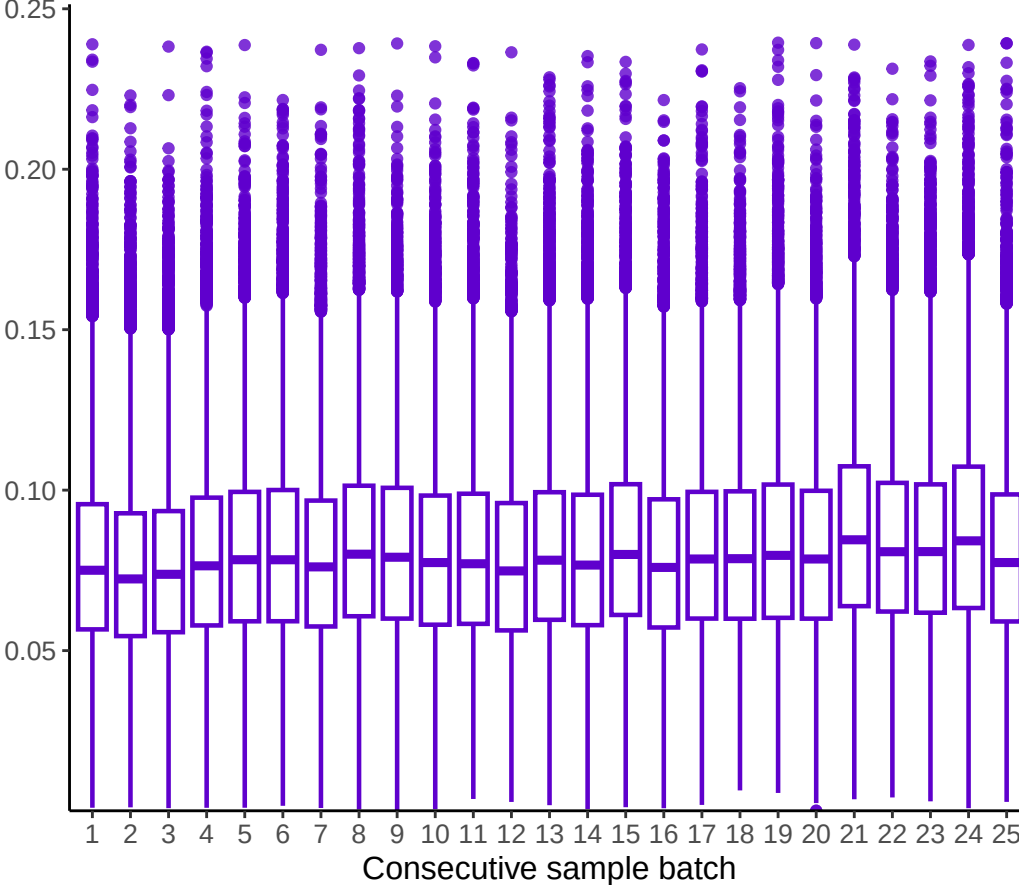
M_VLDL_C



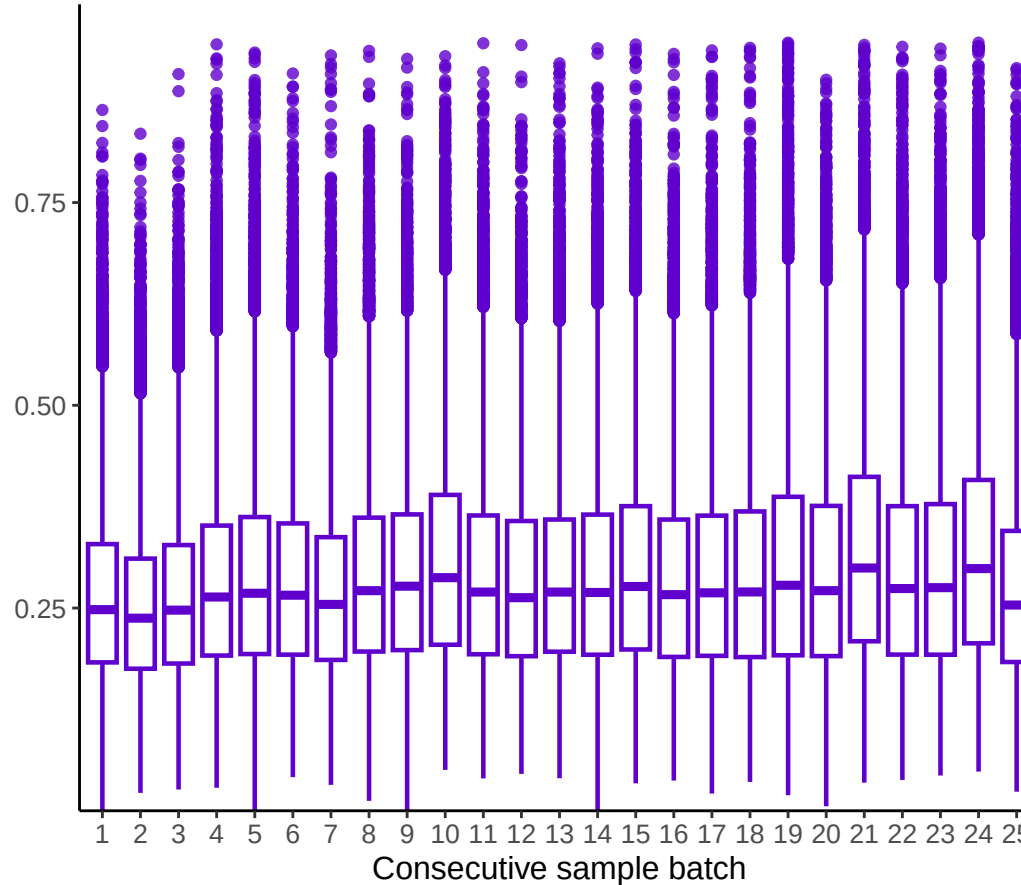
M_VLDL_CE



M_VLDL_FC

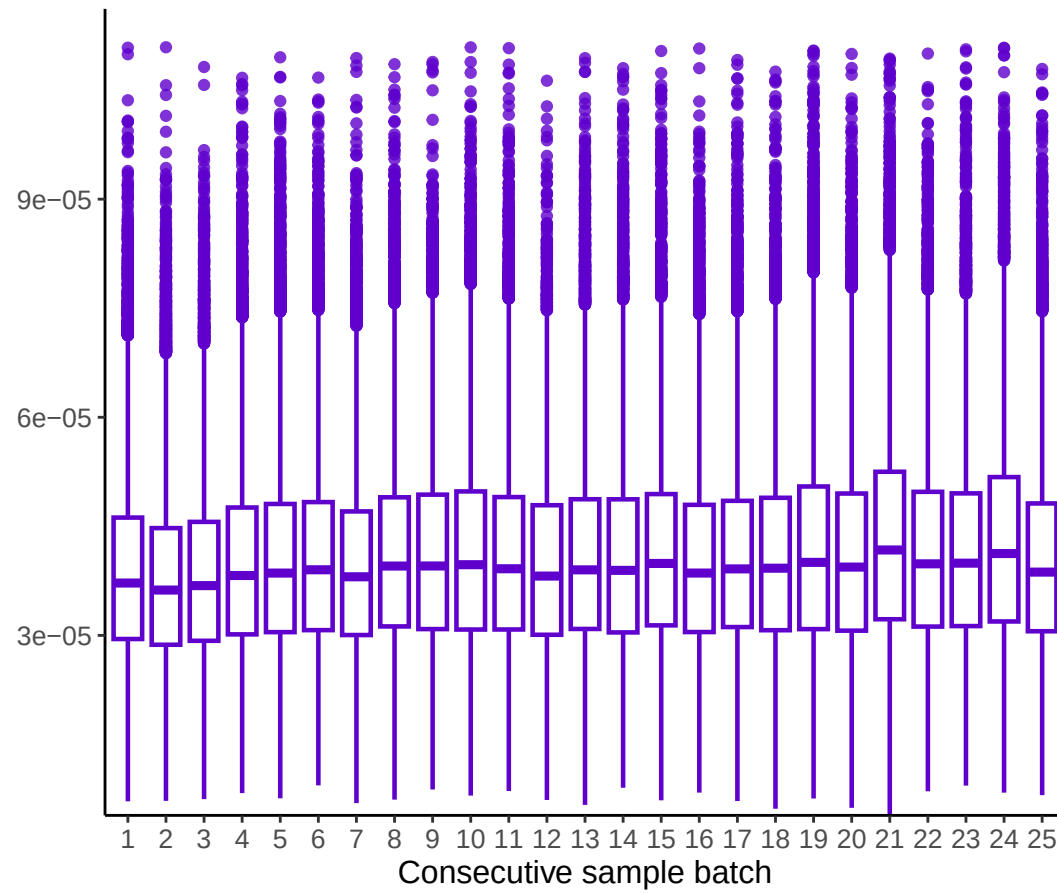


M_VLDL_TG

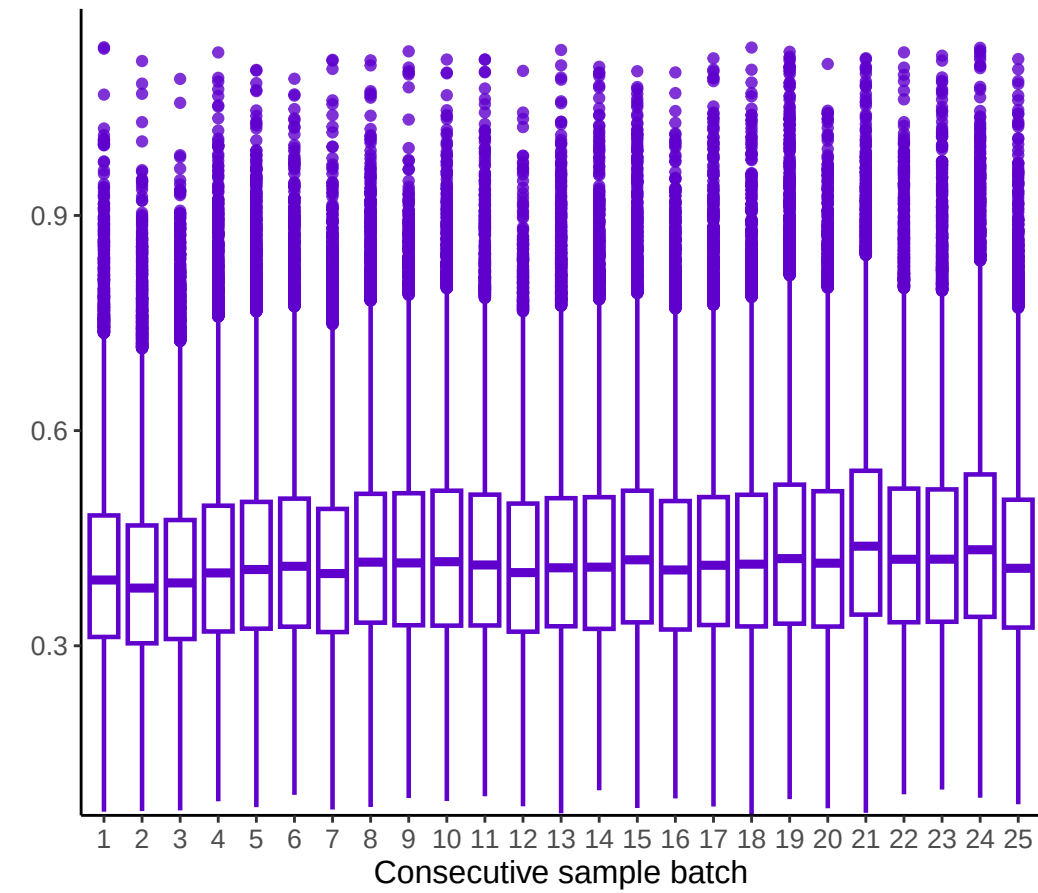


Small VLDL (average diameter 36.8 nm)

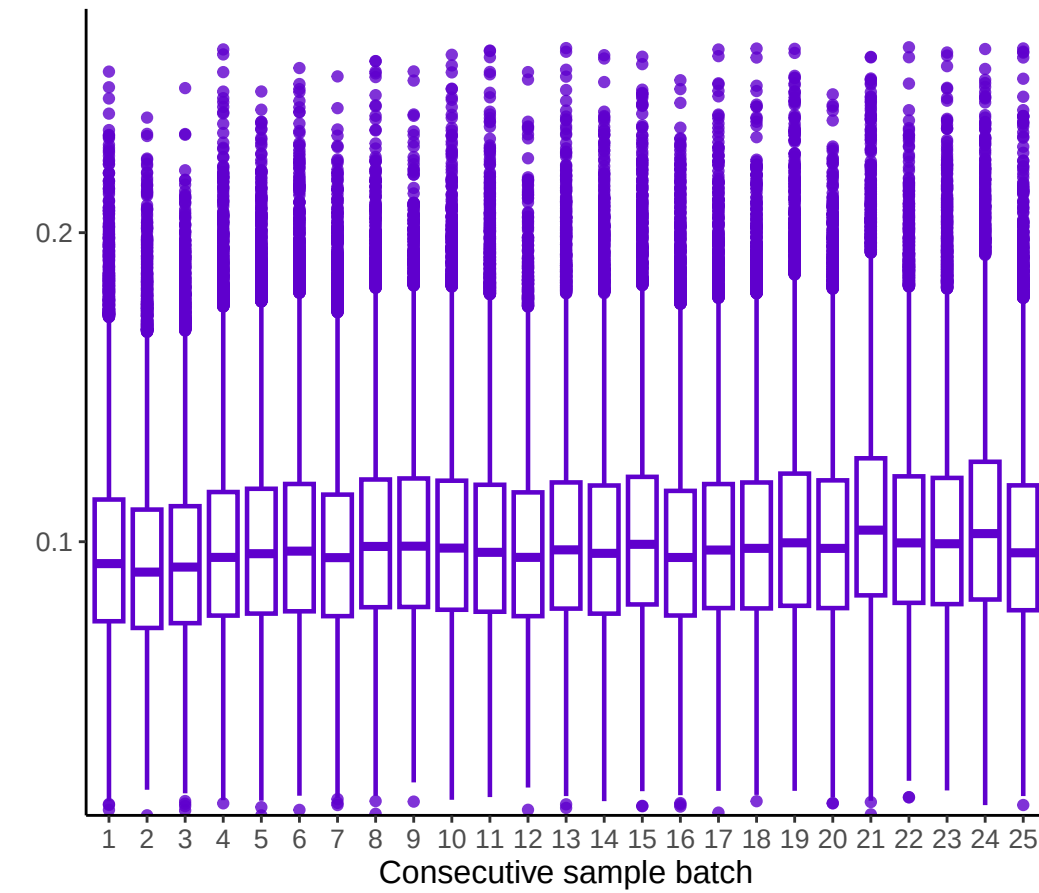
S_VLDL_P



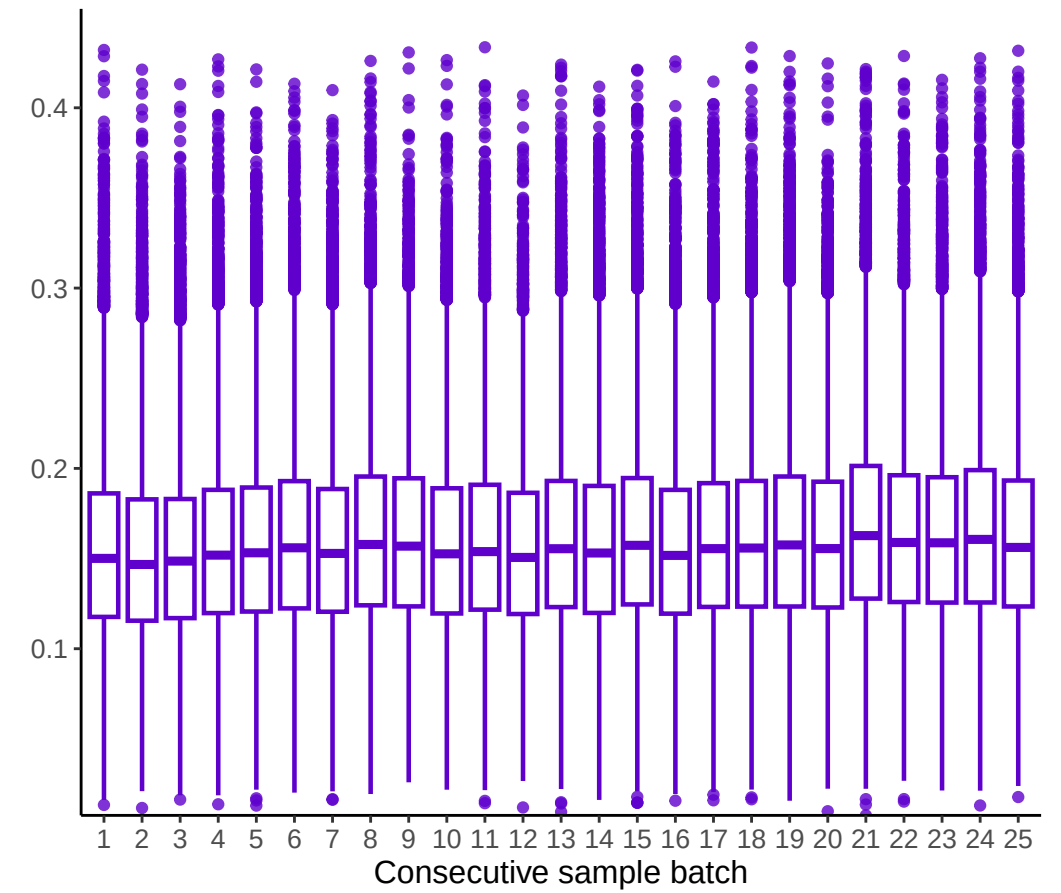
S_VLDL_L



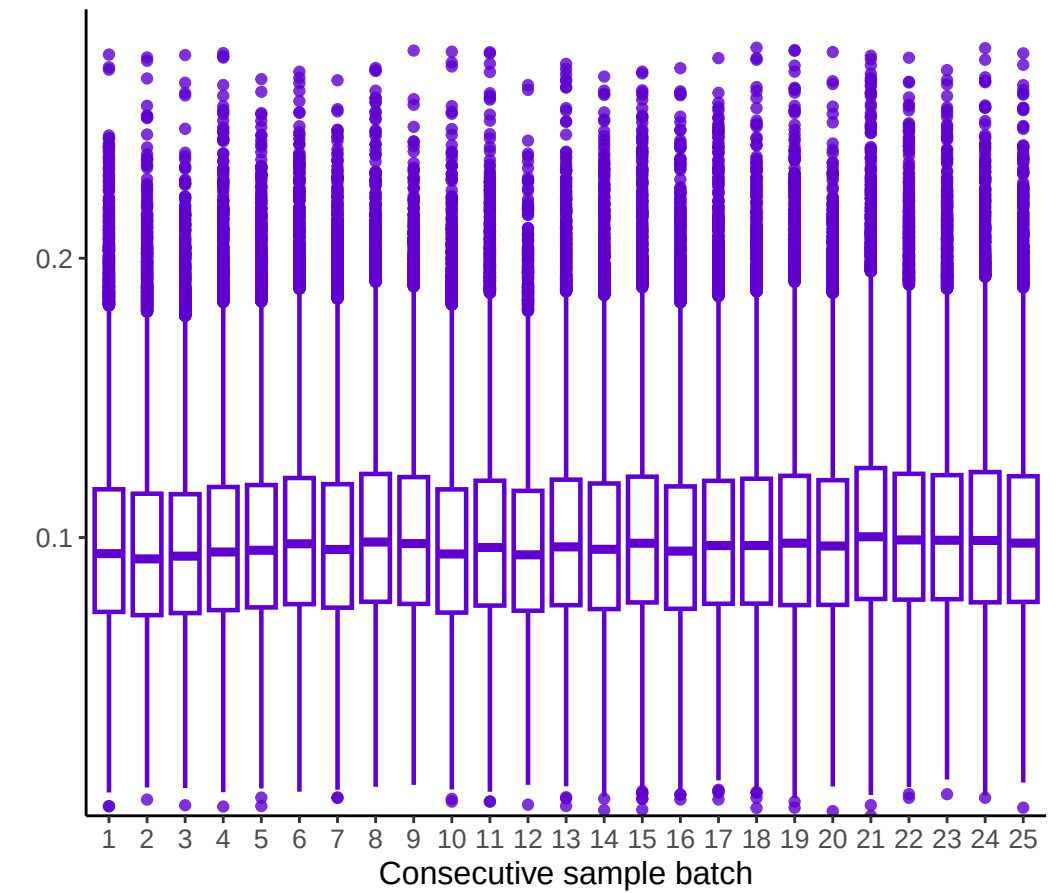
S_VLDL_PL



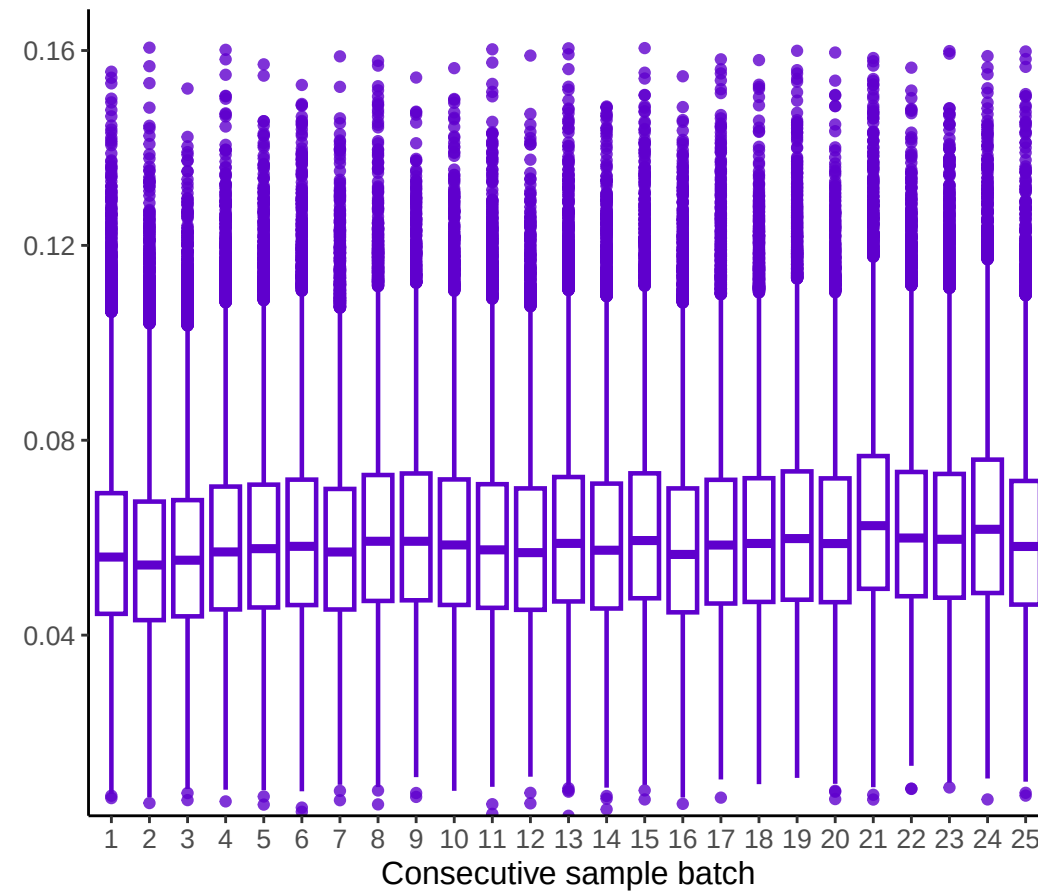
S_VLDL_C



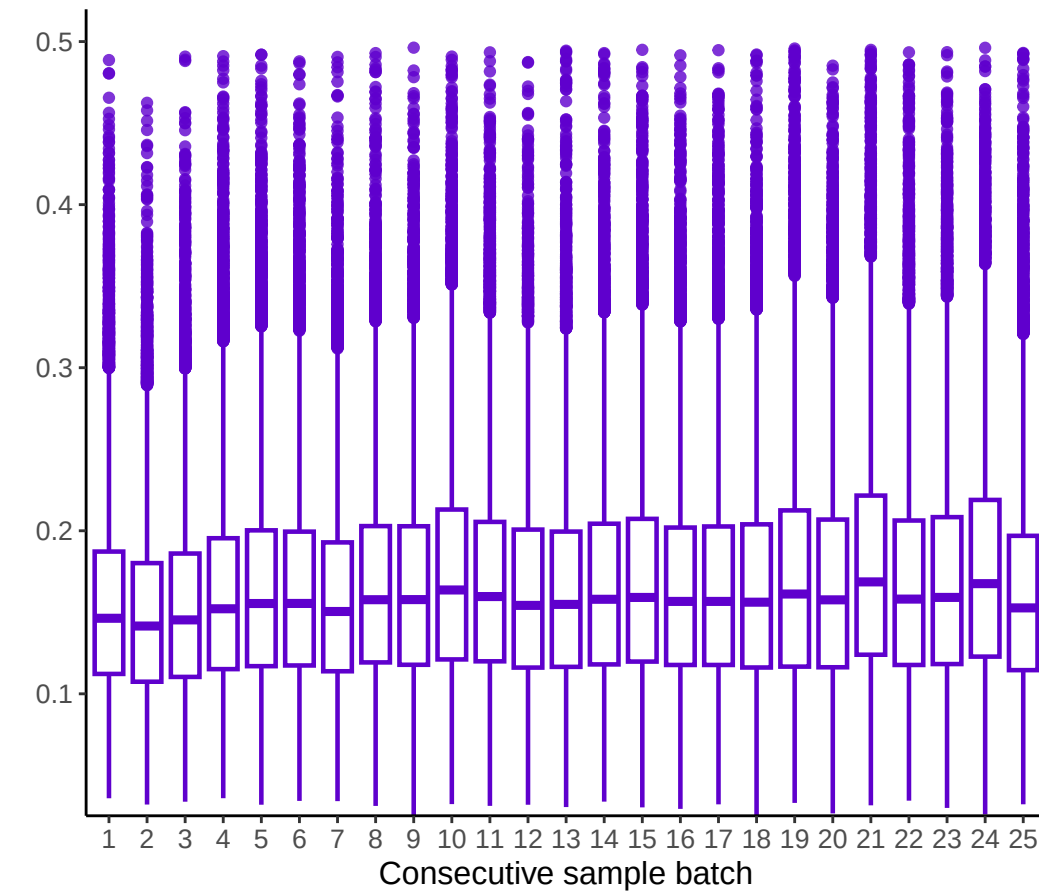
S_VLDL_CE



S_VLDL_FC

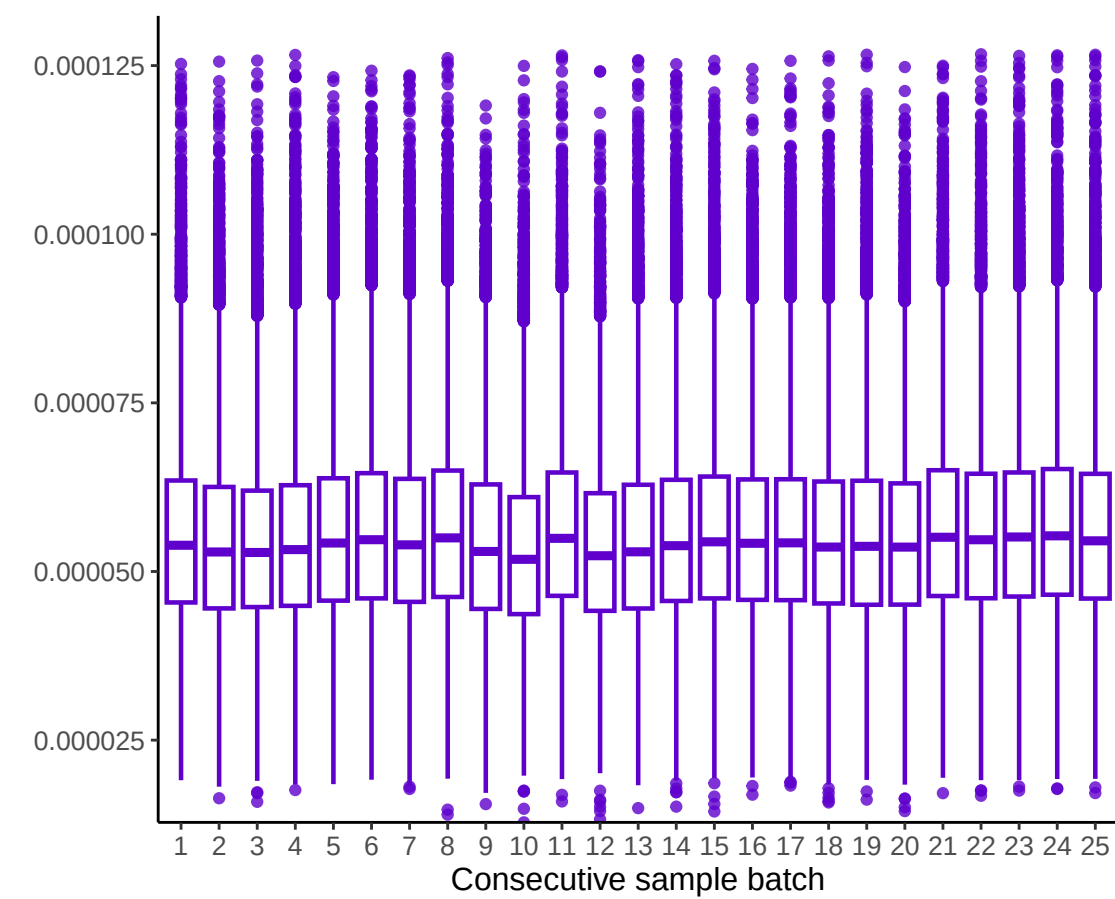


S_VLDL_TG

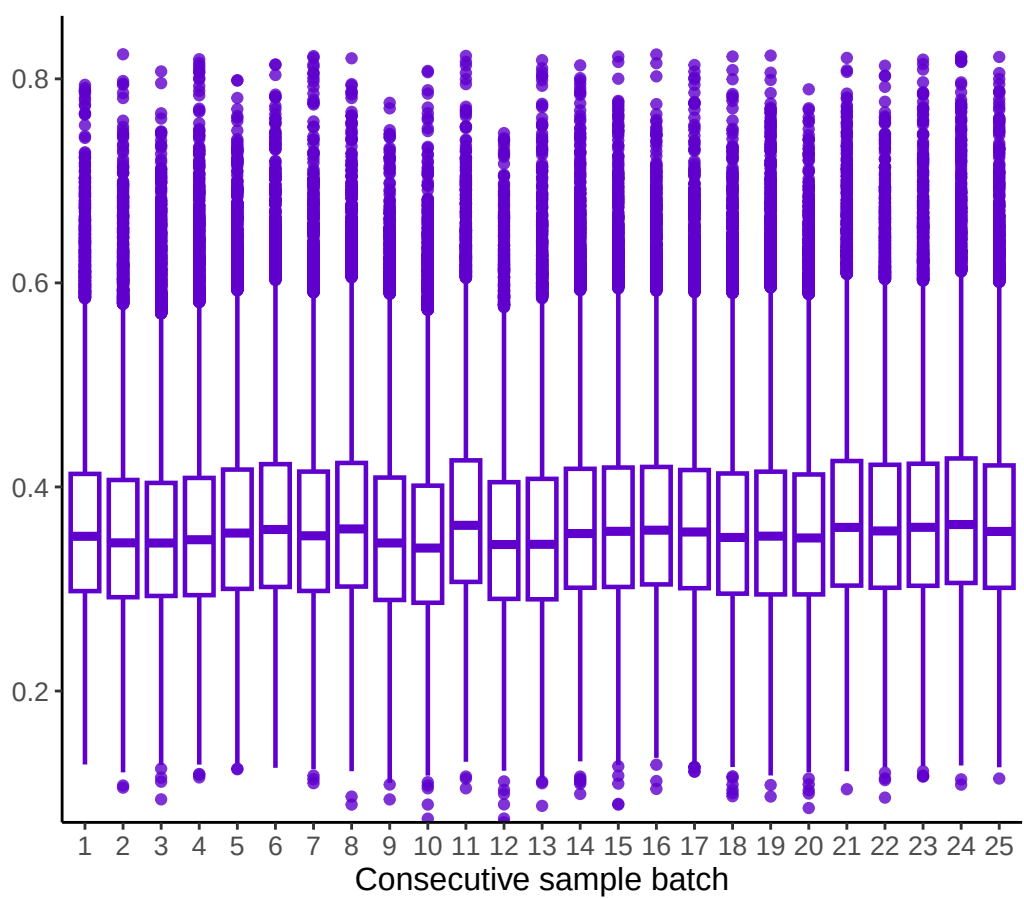


Very small VLDL (average diameter 31.3 nm)

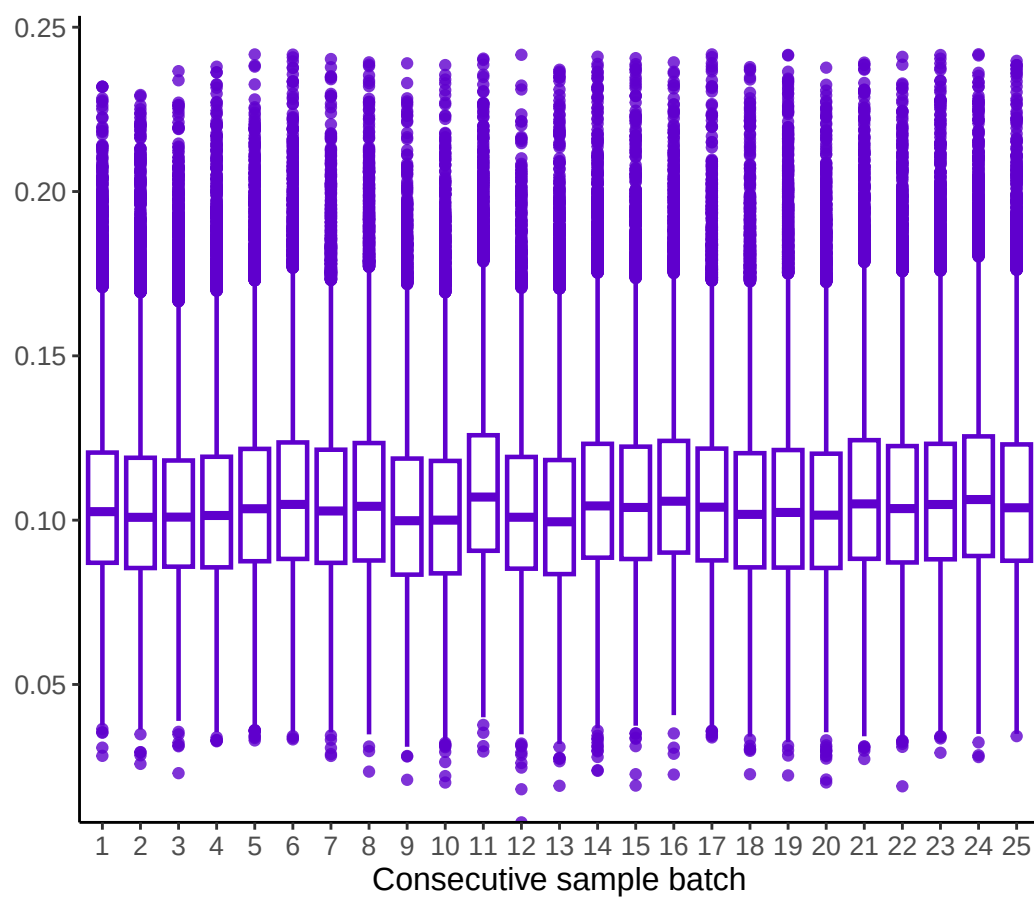
XS_VLDL_P



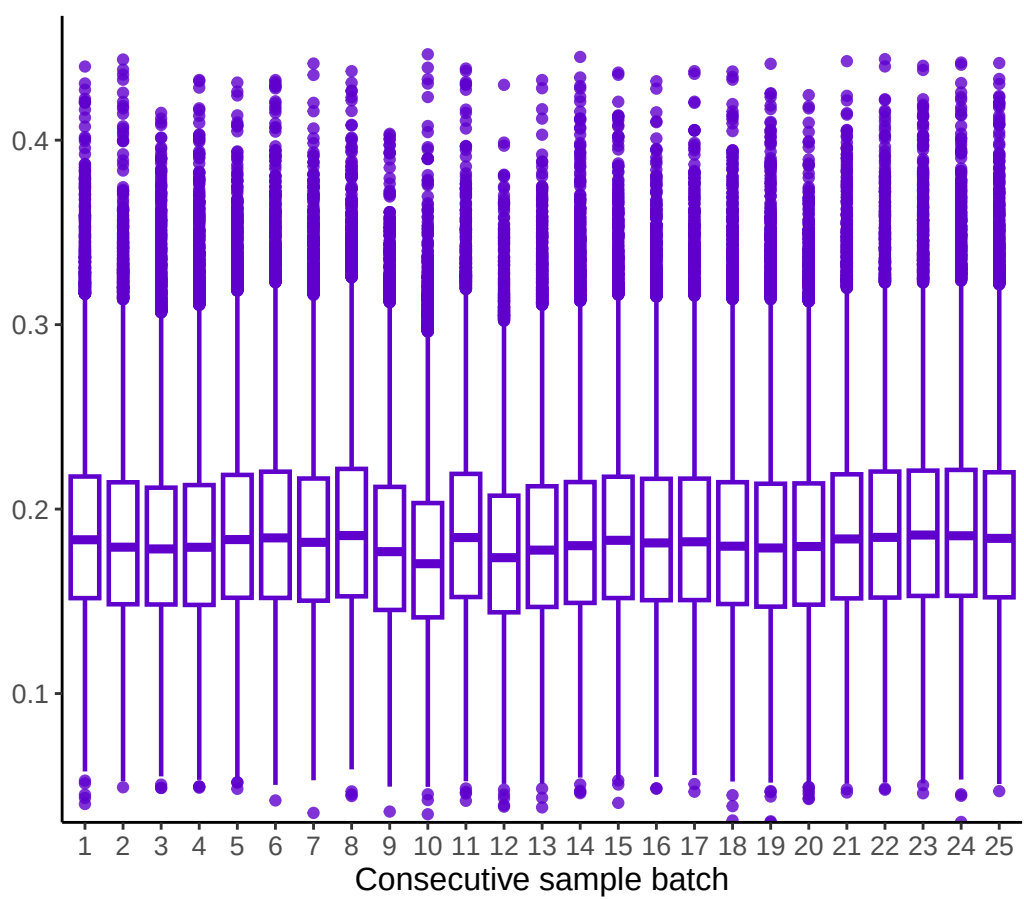
XS_VLDL_L



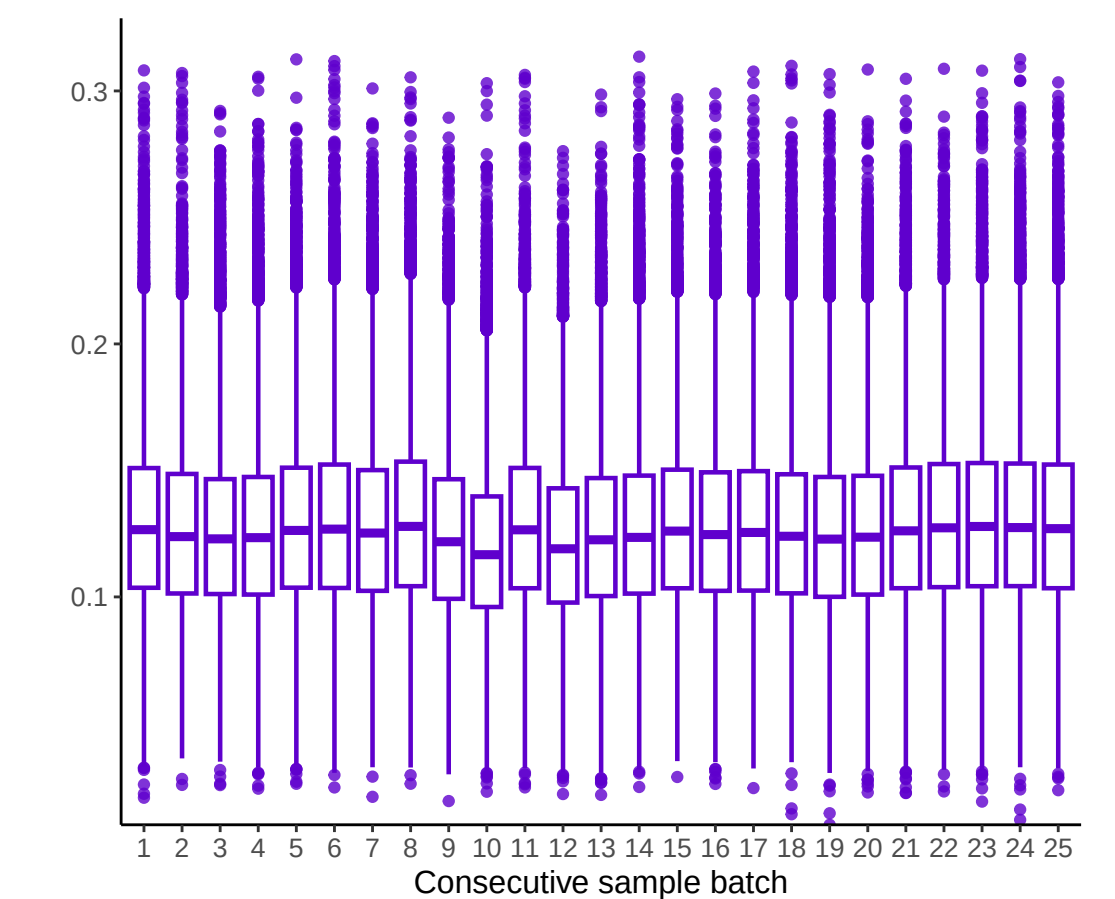
XS_VLDL_PL



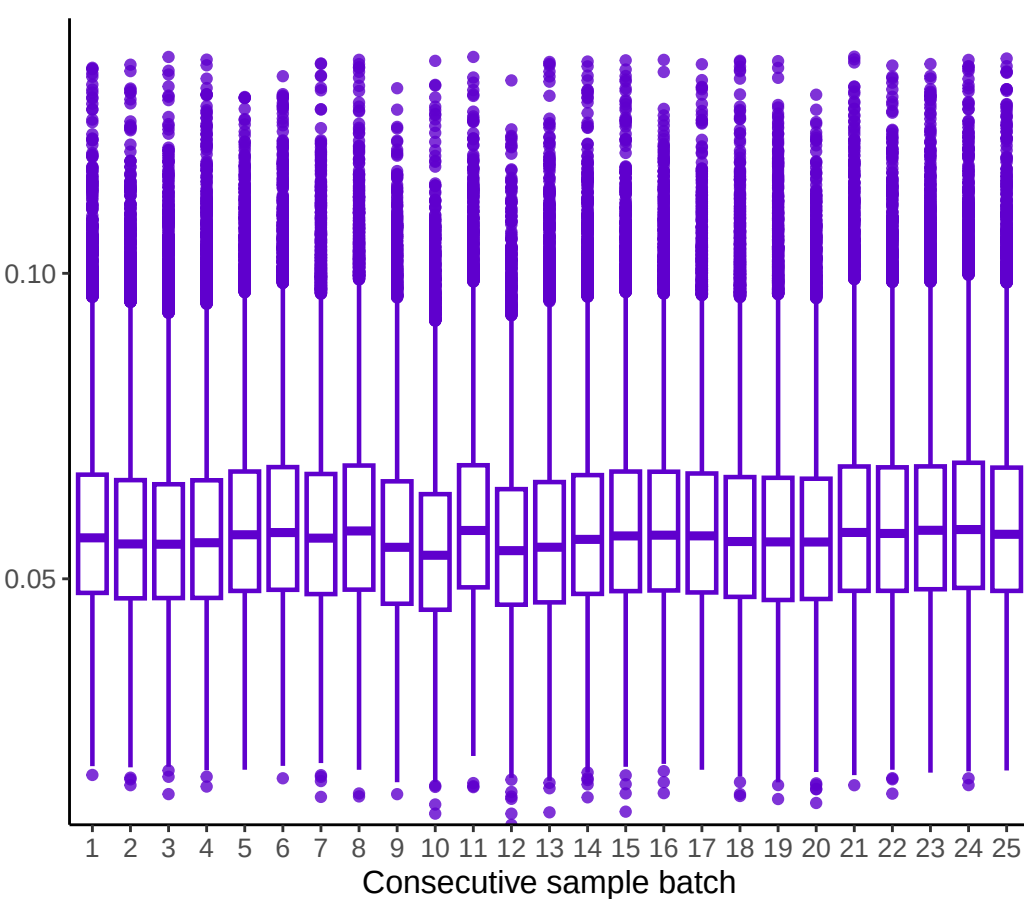
XS_VLDL_C



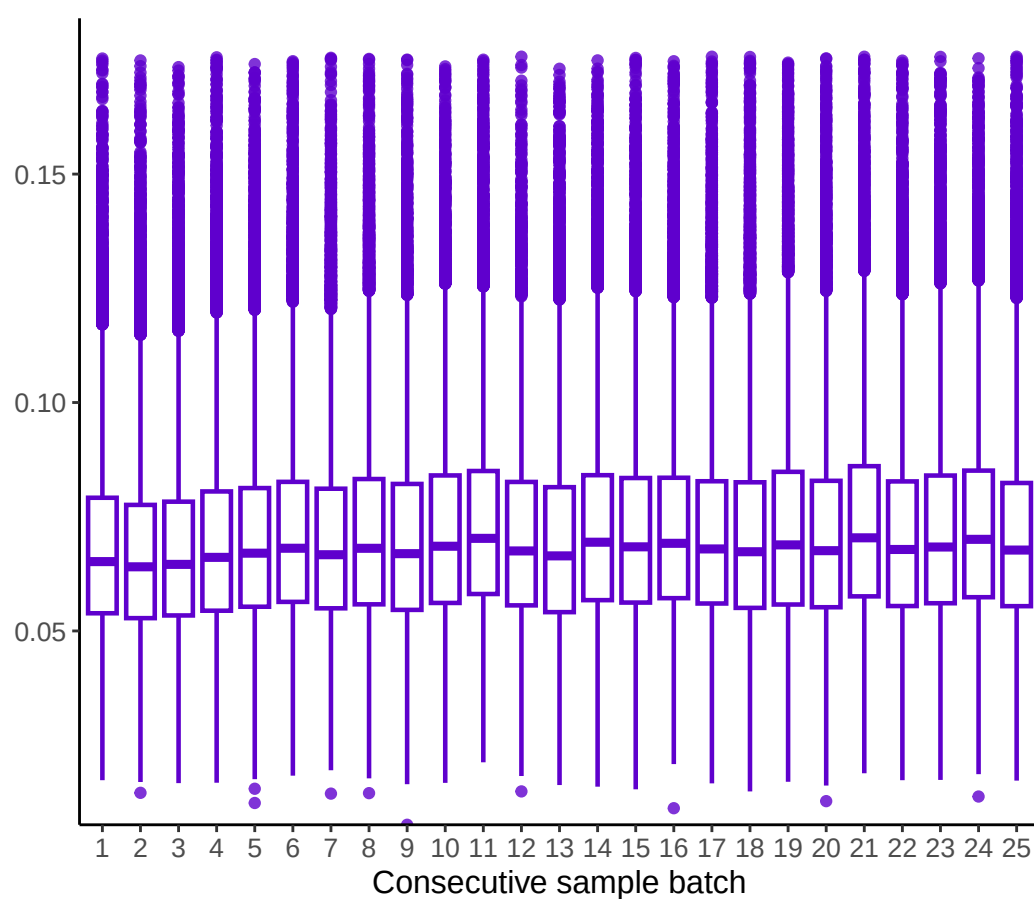
XS_VLDL_CE



XS_VLDL_FC

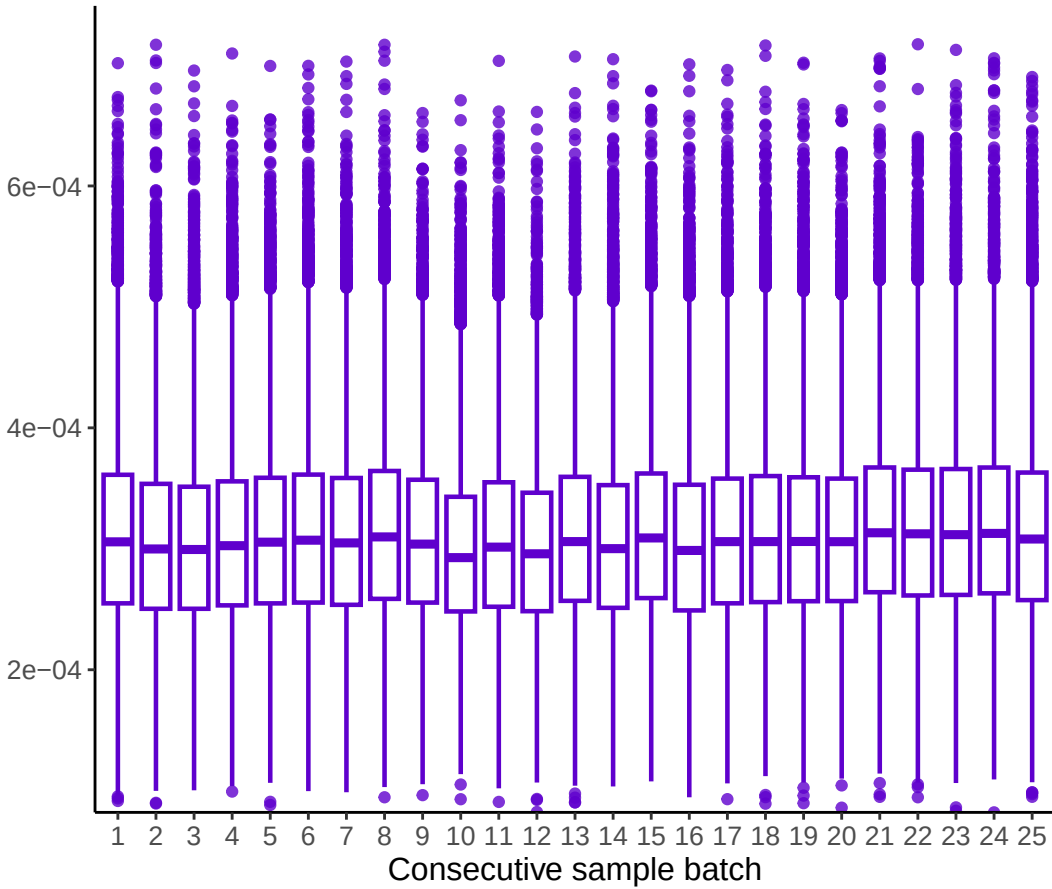


XS_VLDL_TG

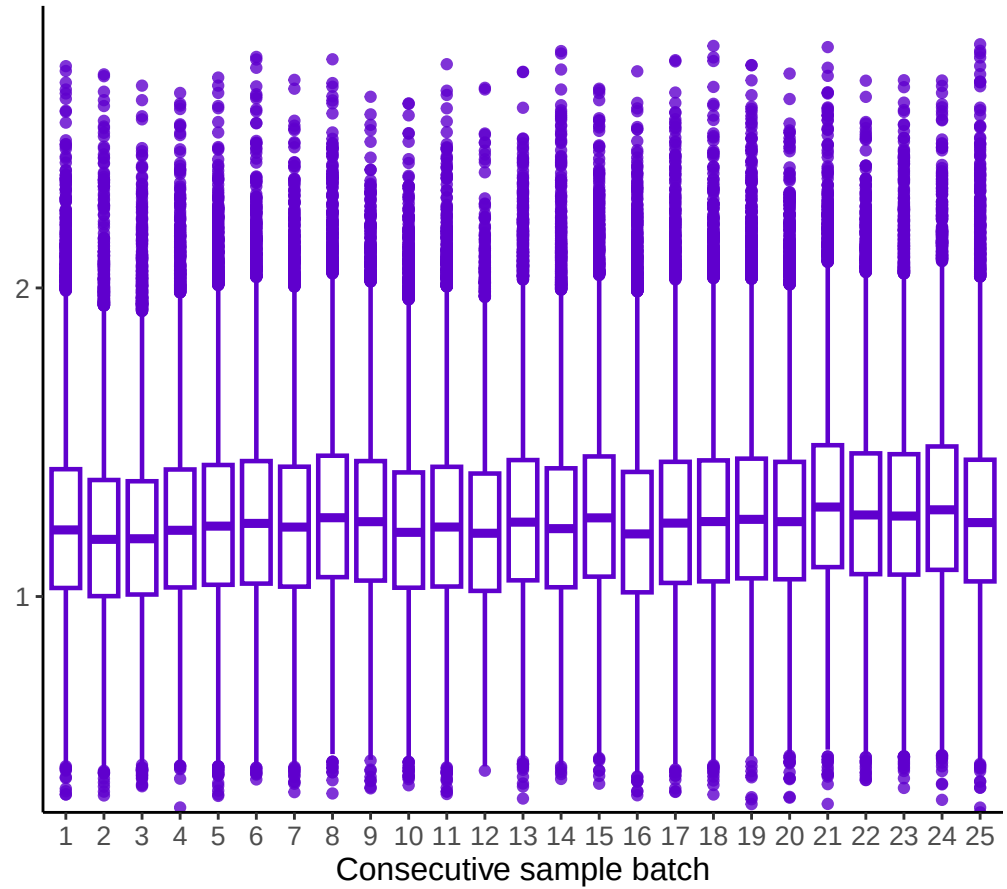


IDL (average diameter 28.6 nm)

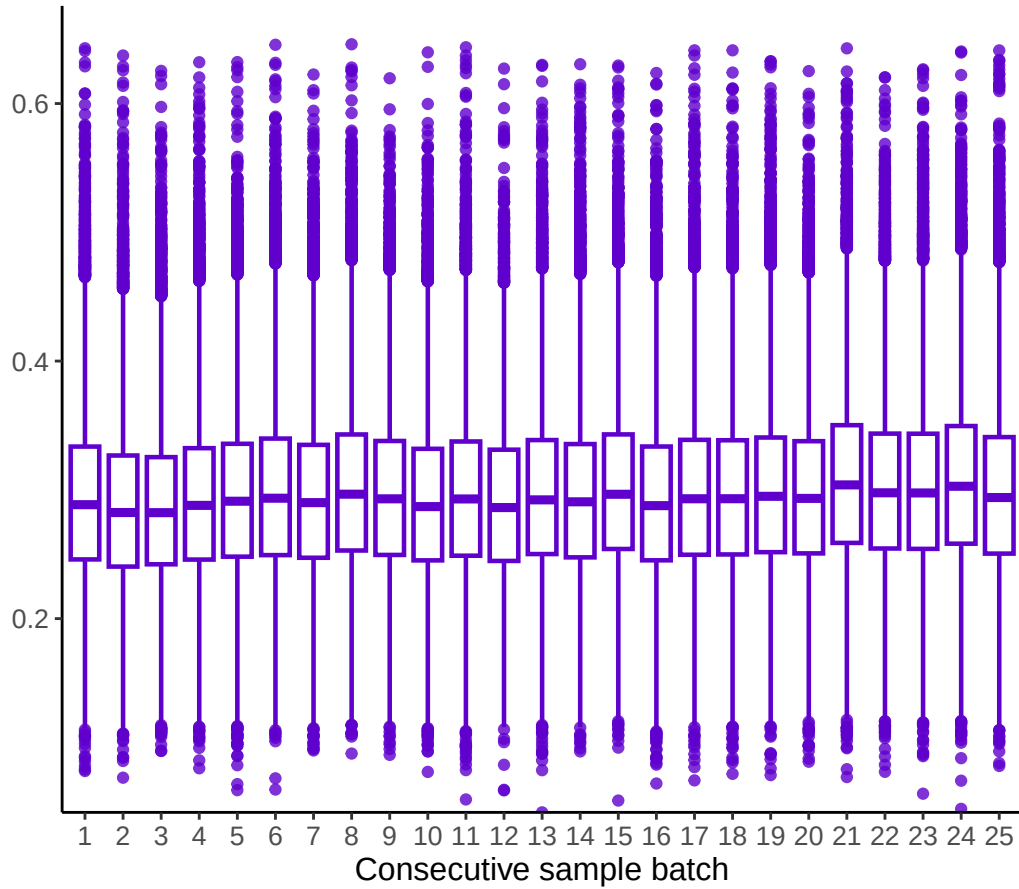
IDL_P



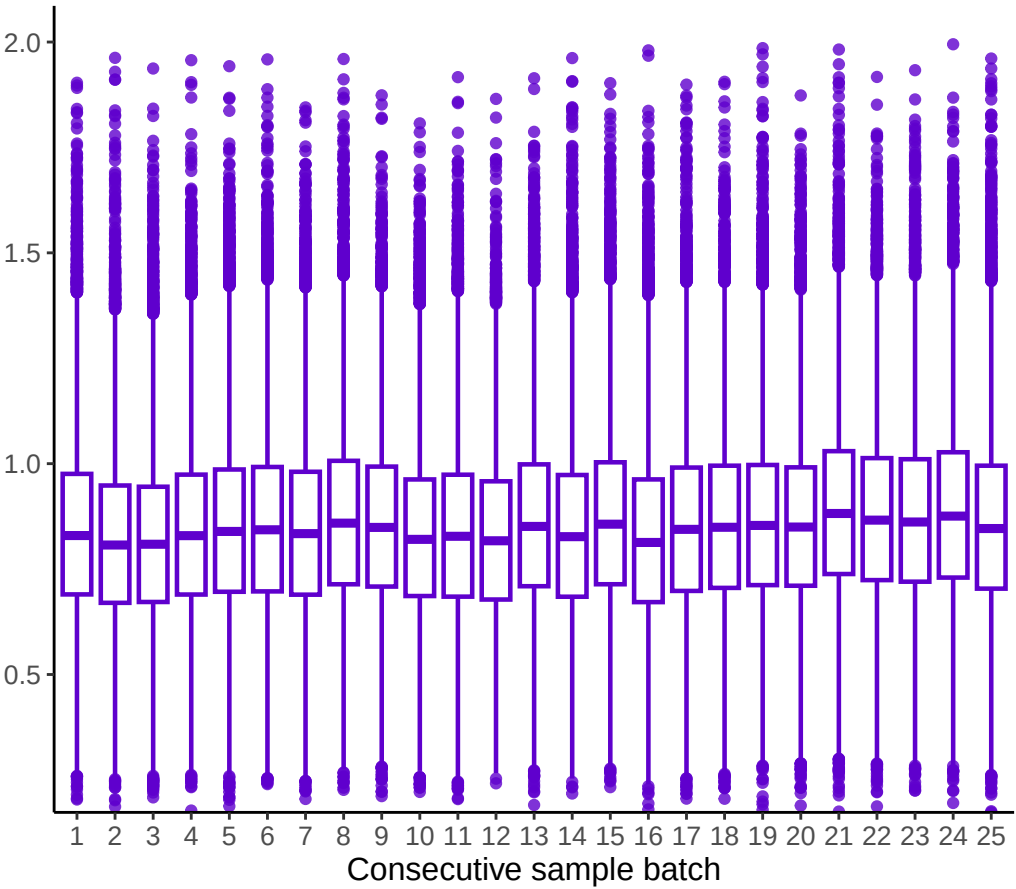
IDL_L



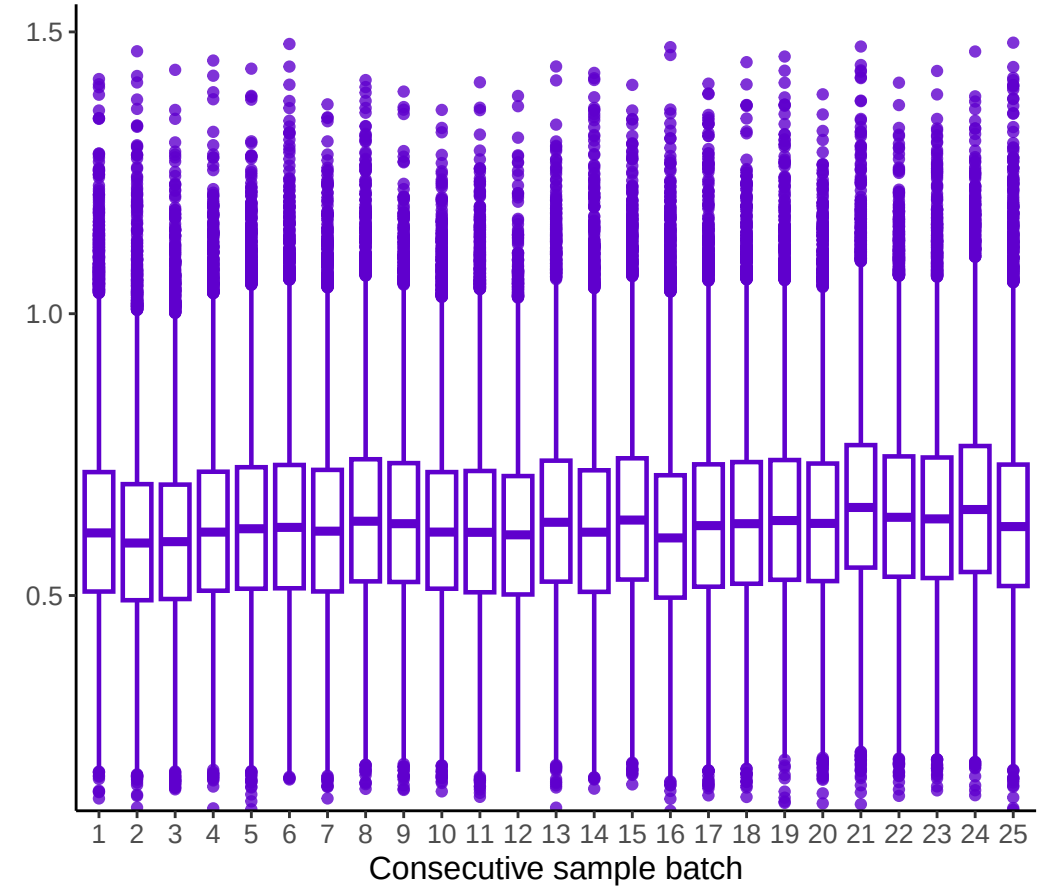
IDL_PL



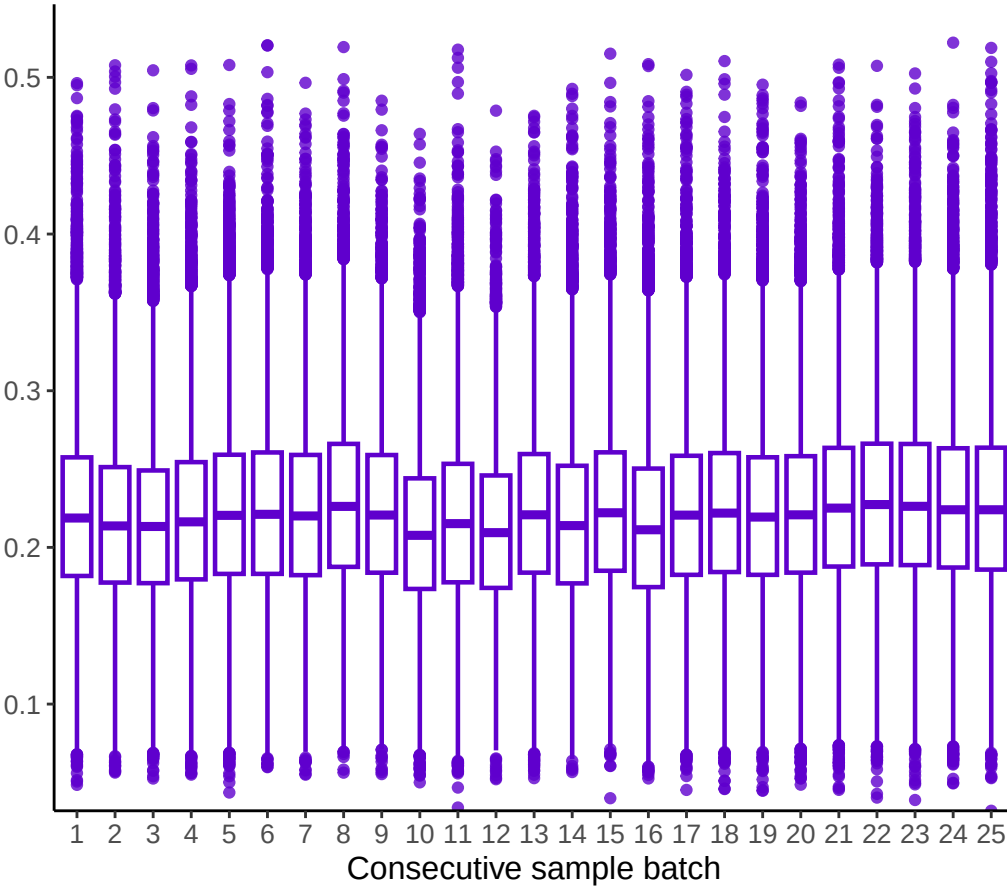
IDL_C



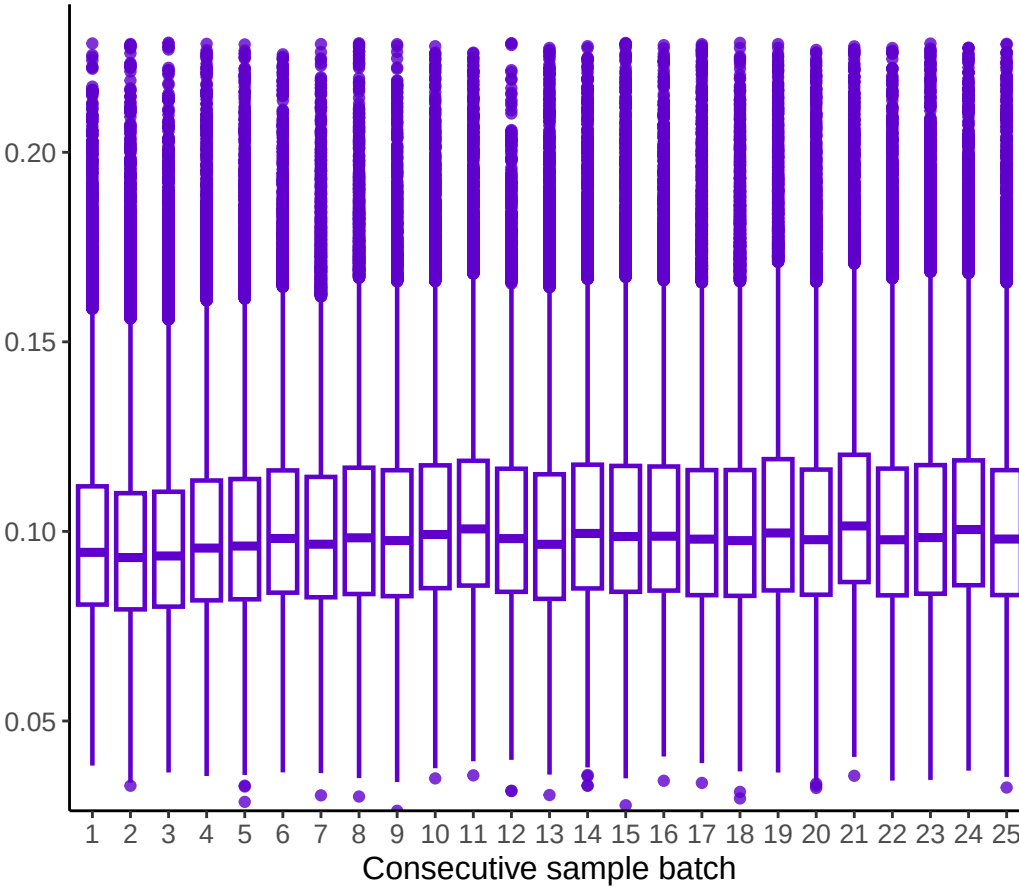
IDL_CE



IDL_FC

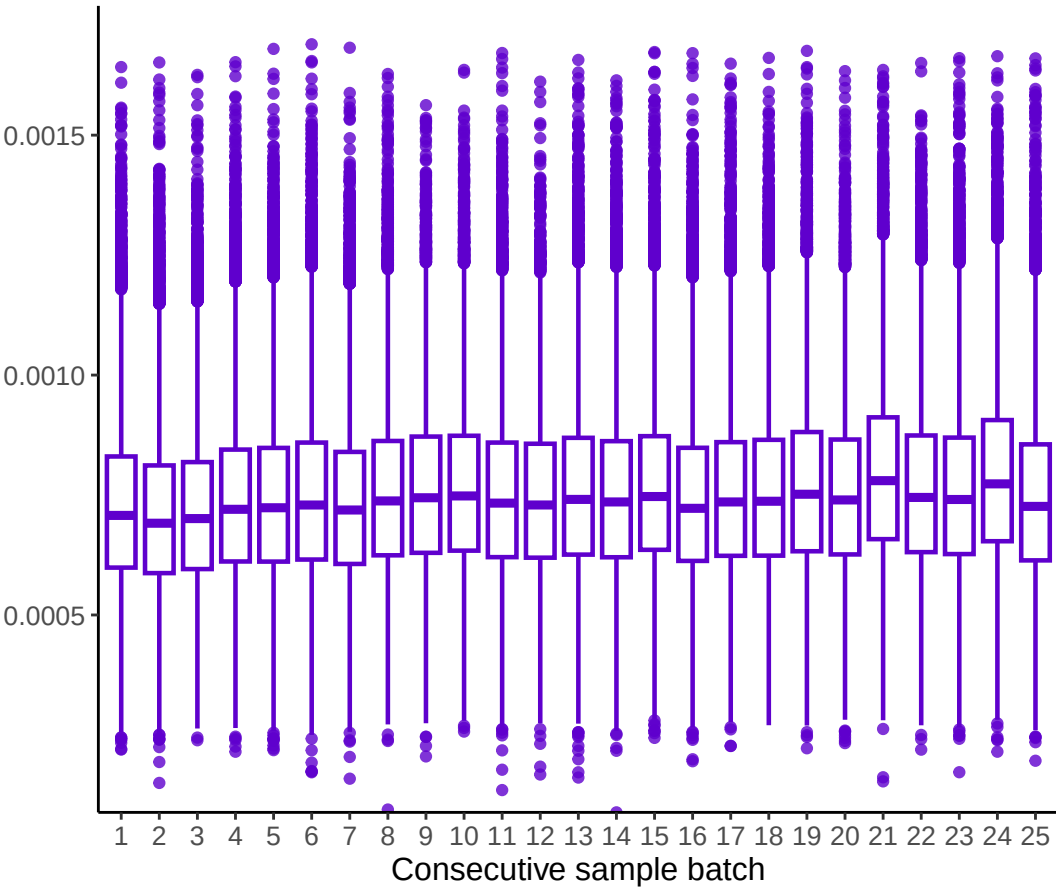


IDL_TG

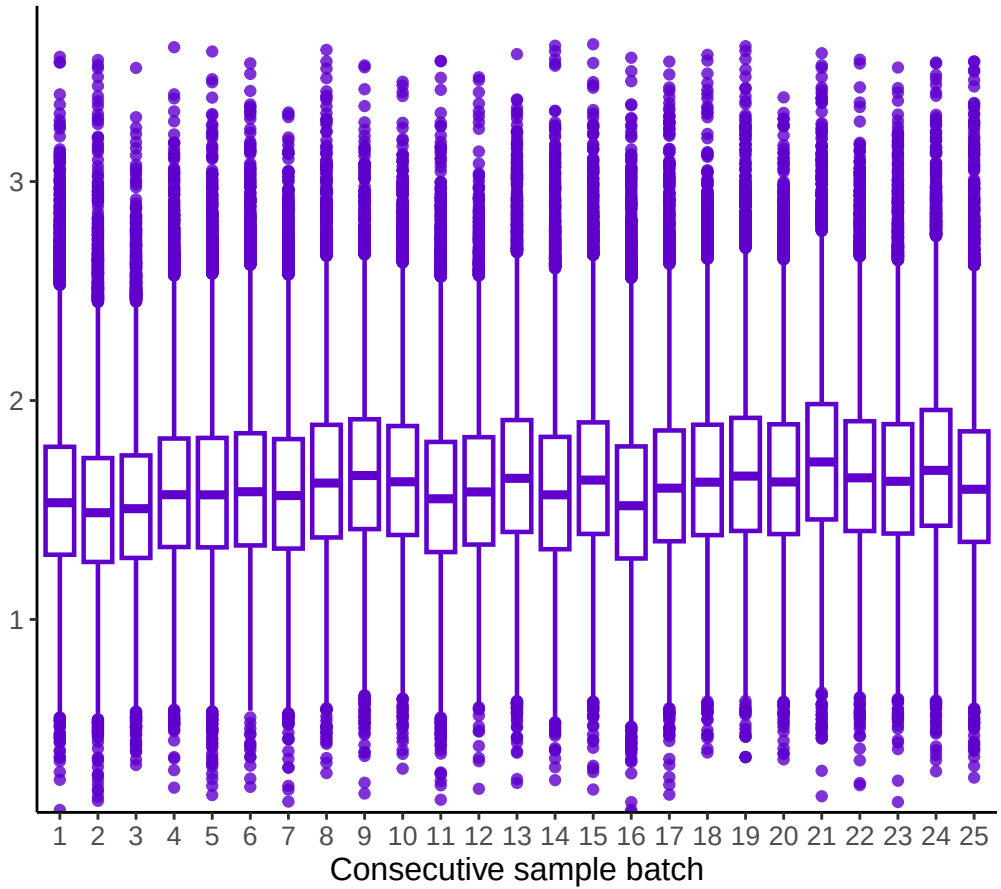


Large LDL (average diameter 25.5 nm)

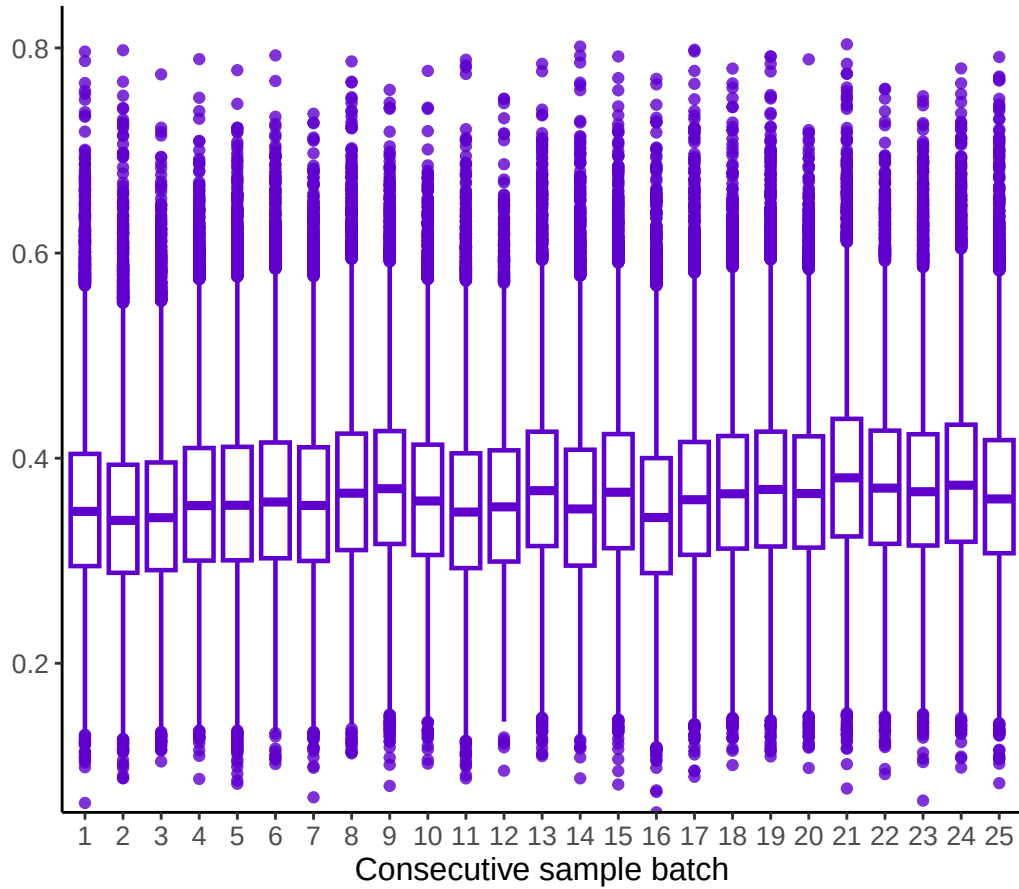
L_LDL_P



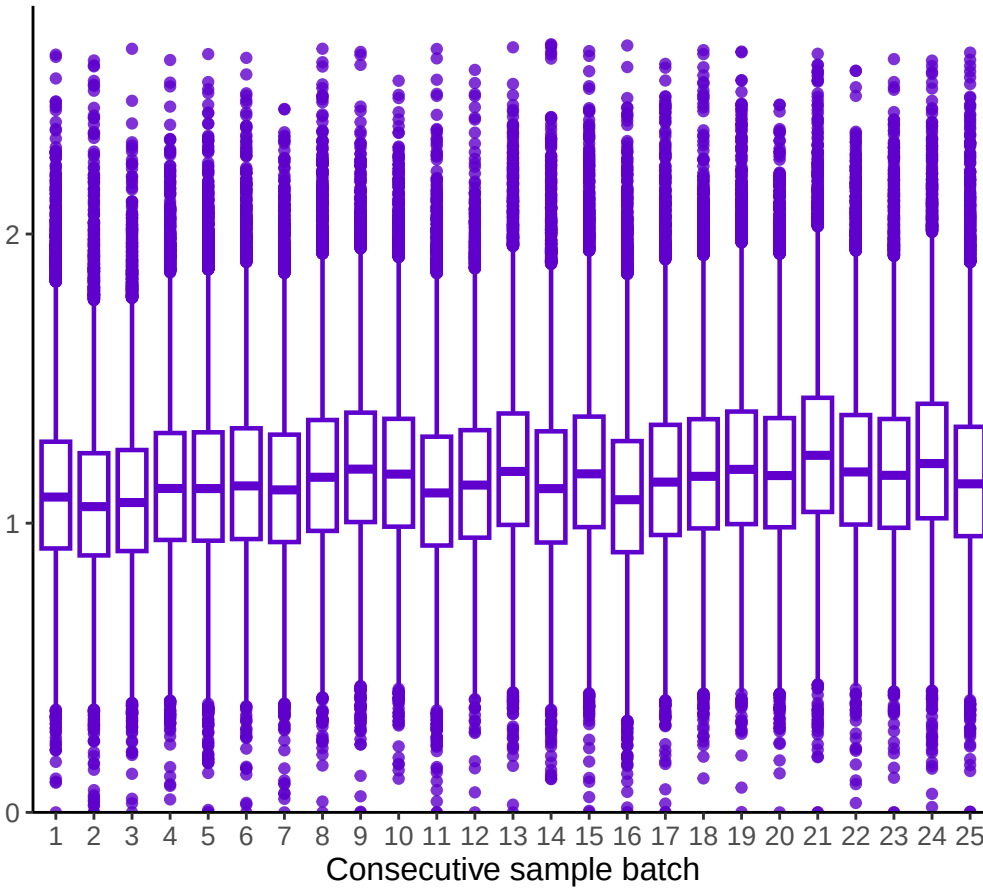
L_LDL_L



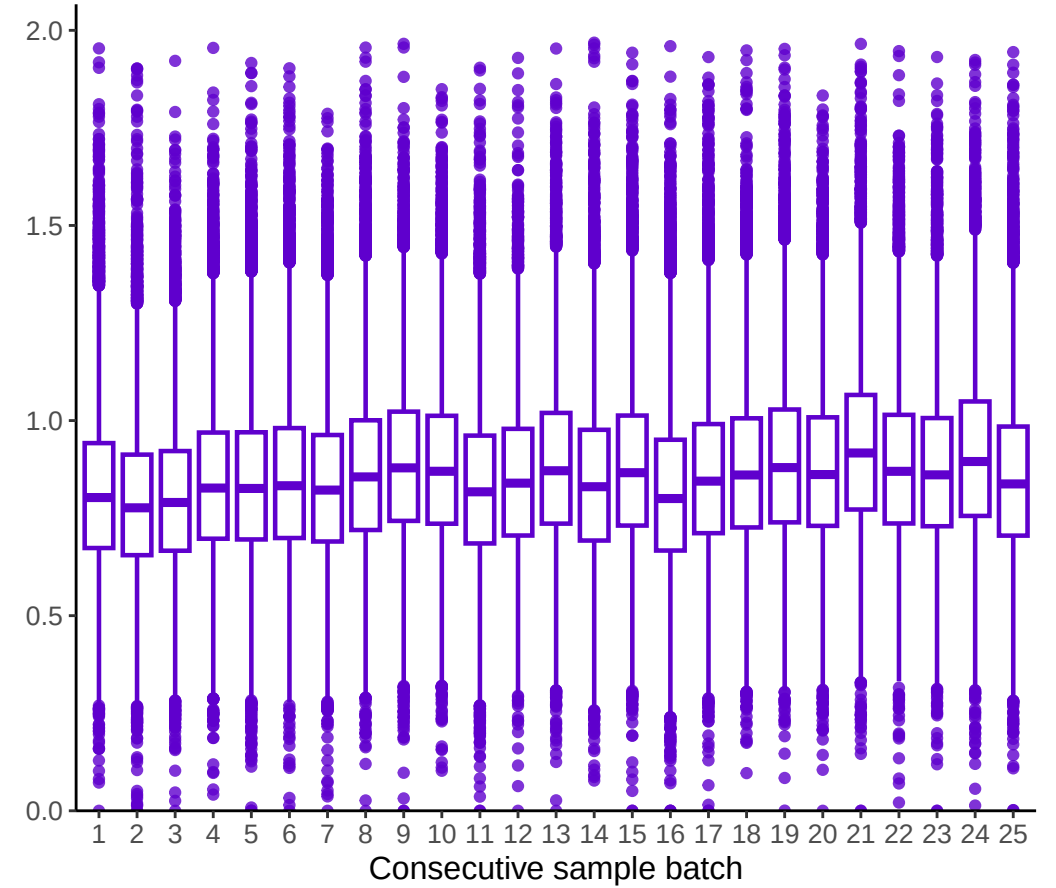
L_LDL_PL



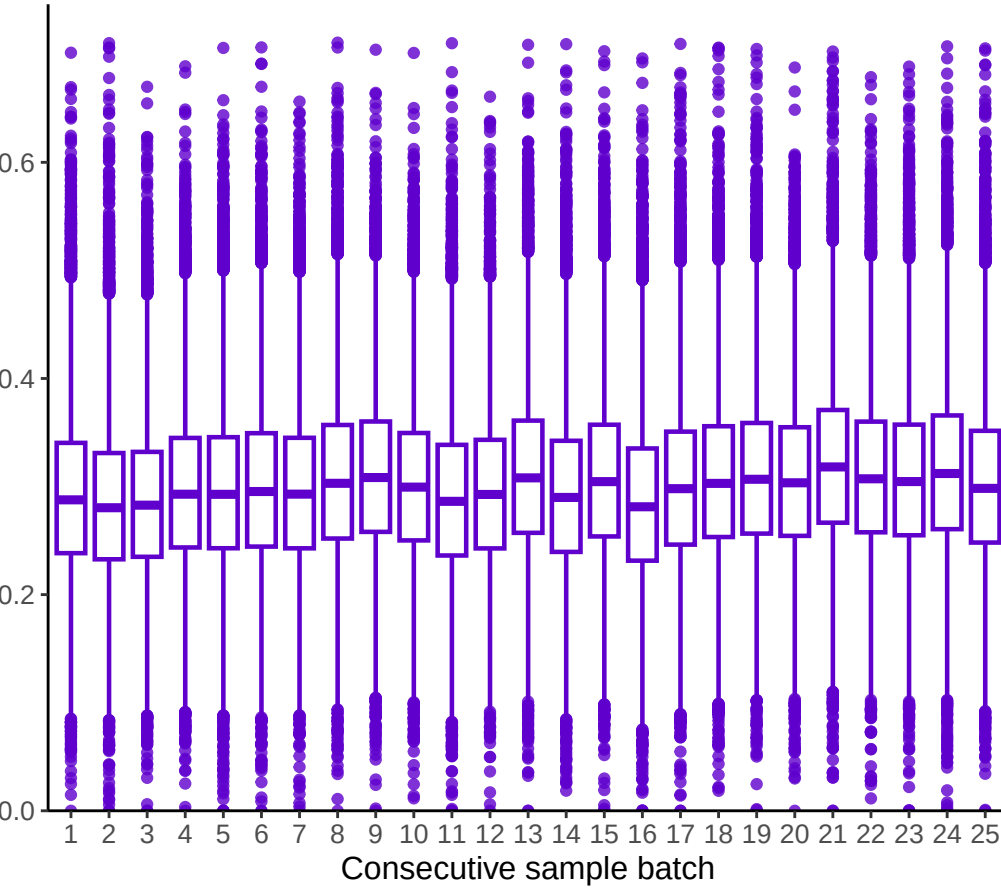
L_LDL_C



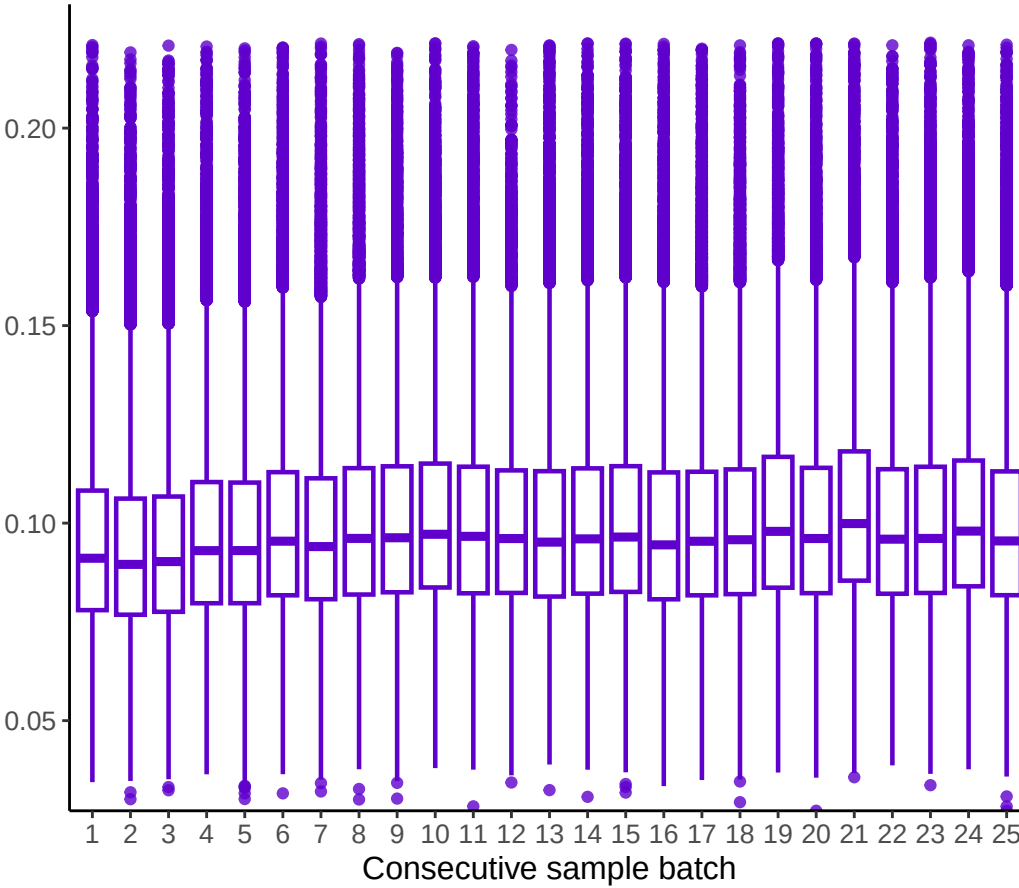
L_LDL_CE



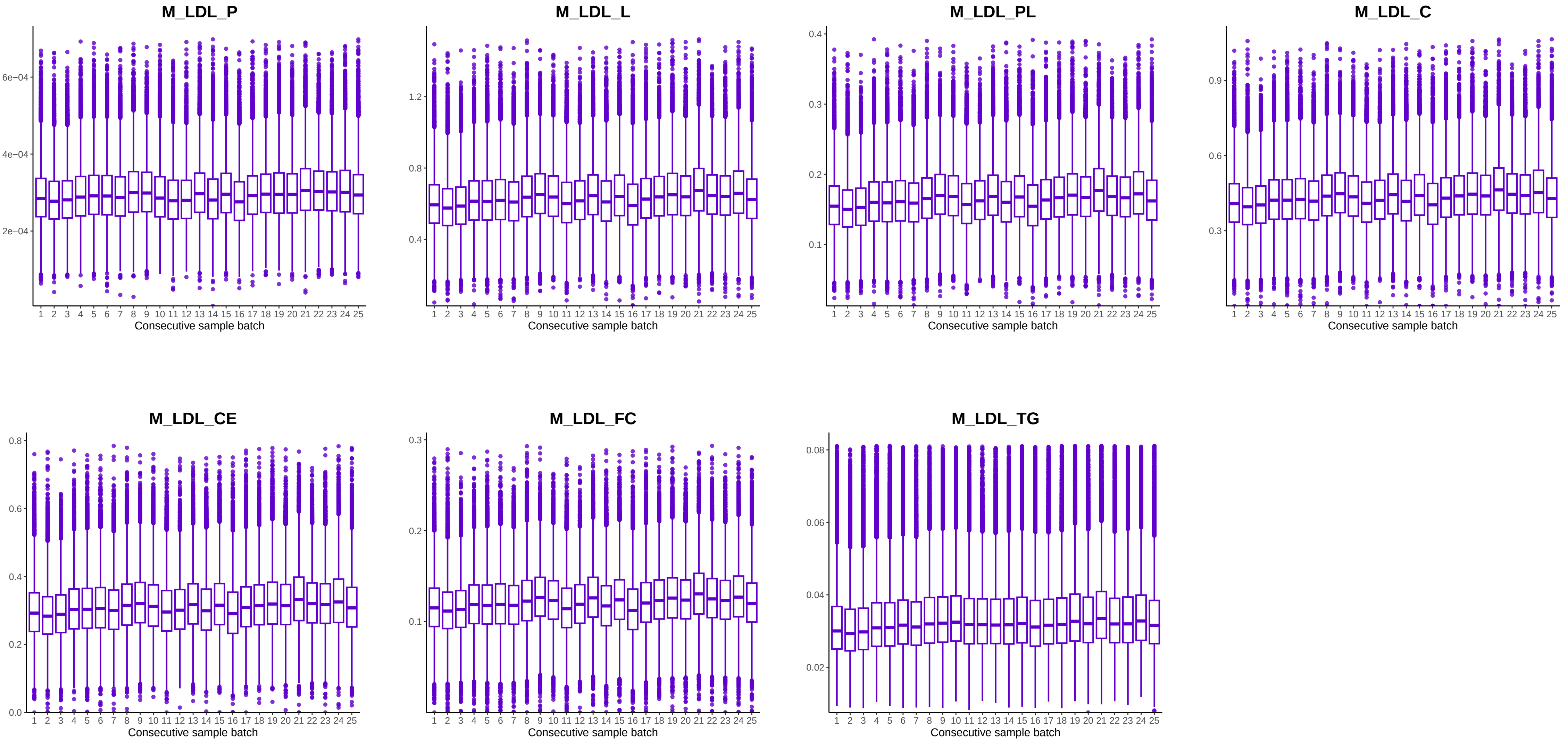
L_LDL_FC



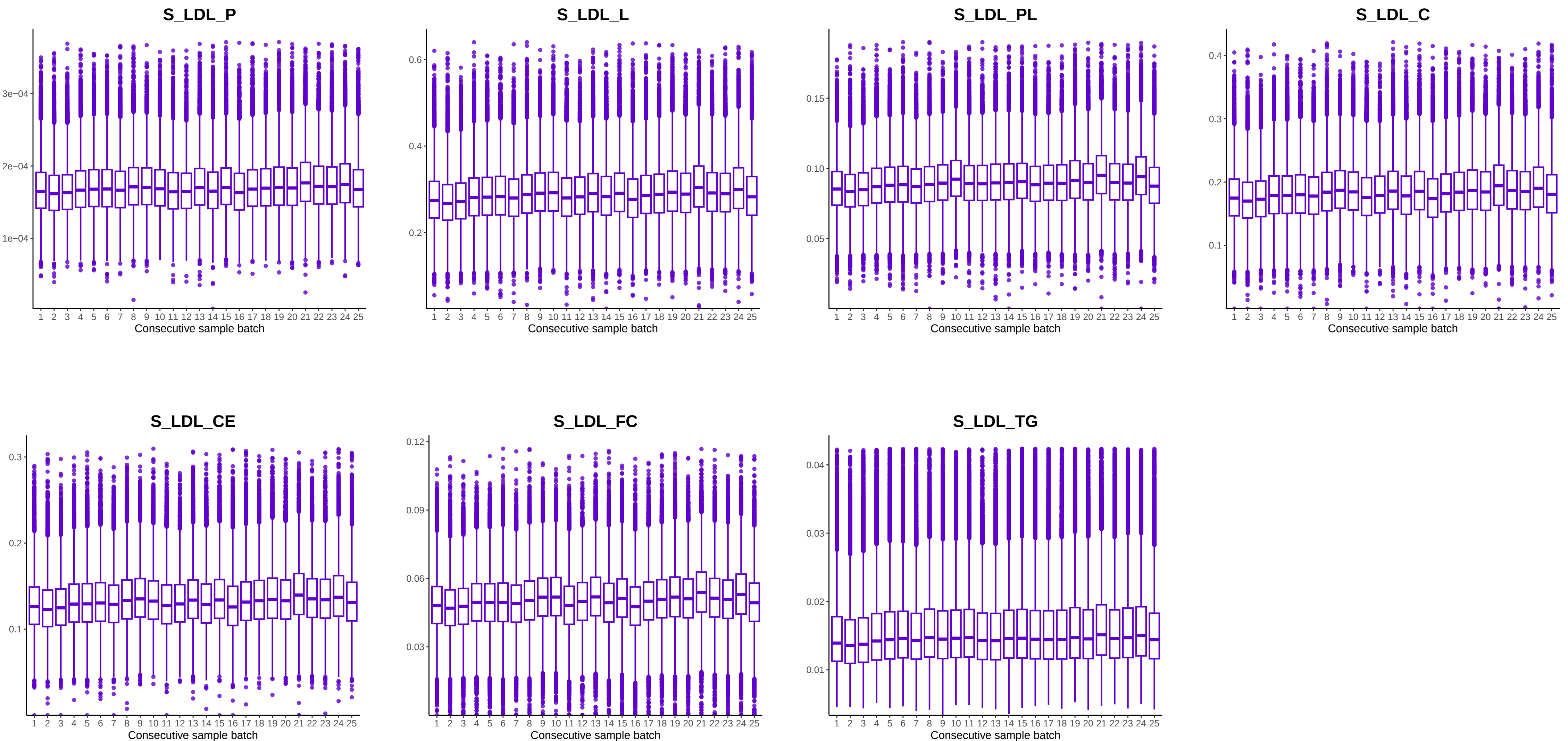
L_LDL_TG



Medium LDL (average diameter 23 nm)

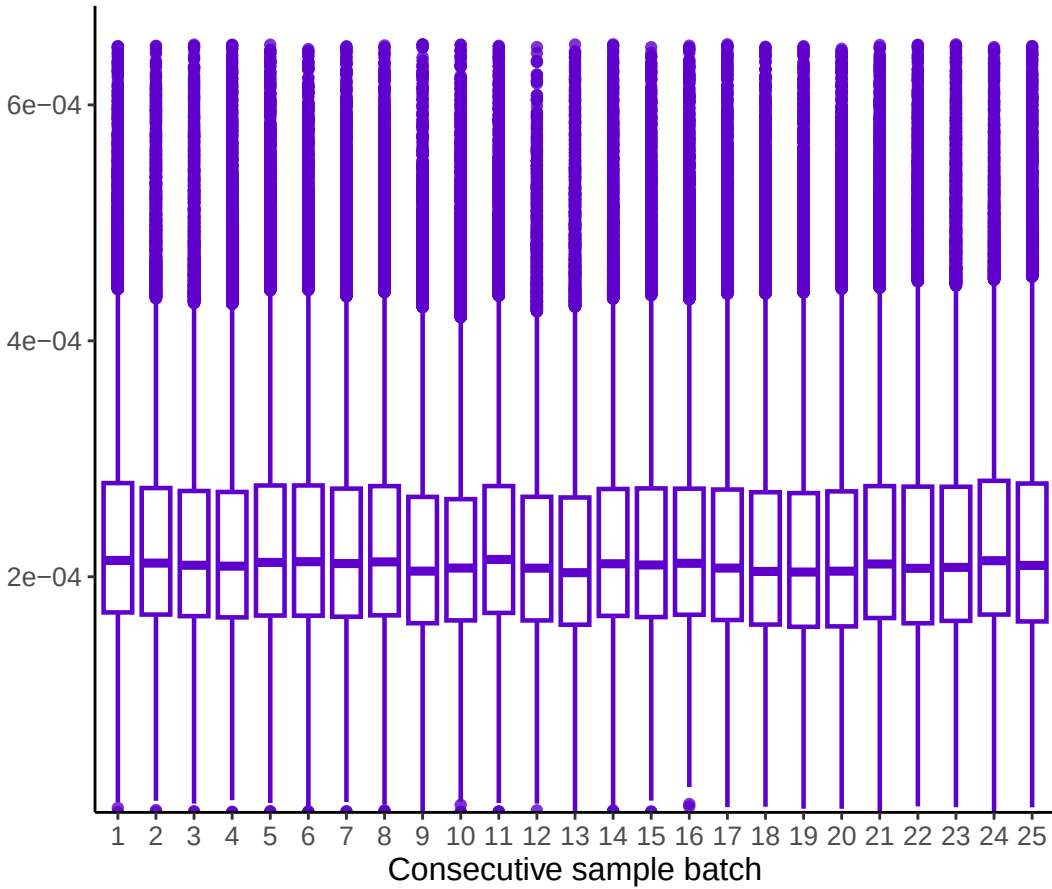


Small LDL (average diameter 18.7 nm)

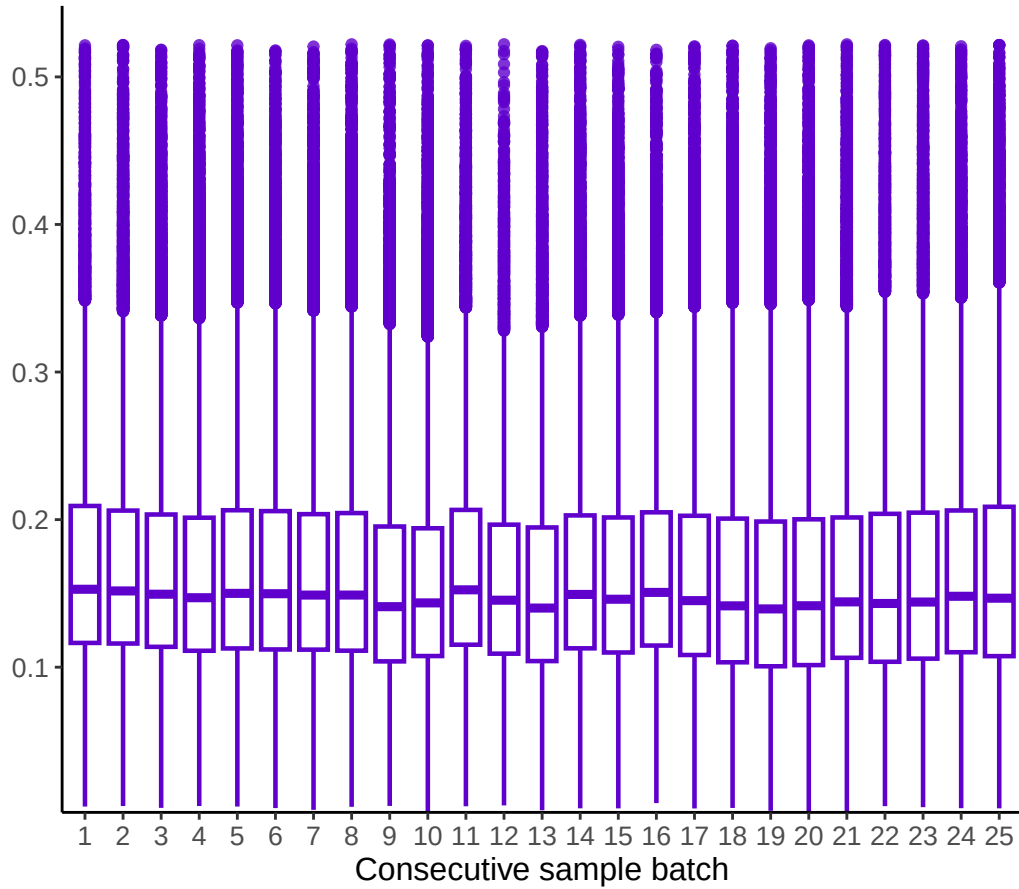


Very large HDL (average diameter 14.3 nm)

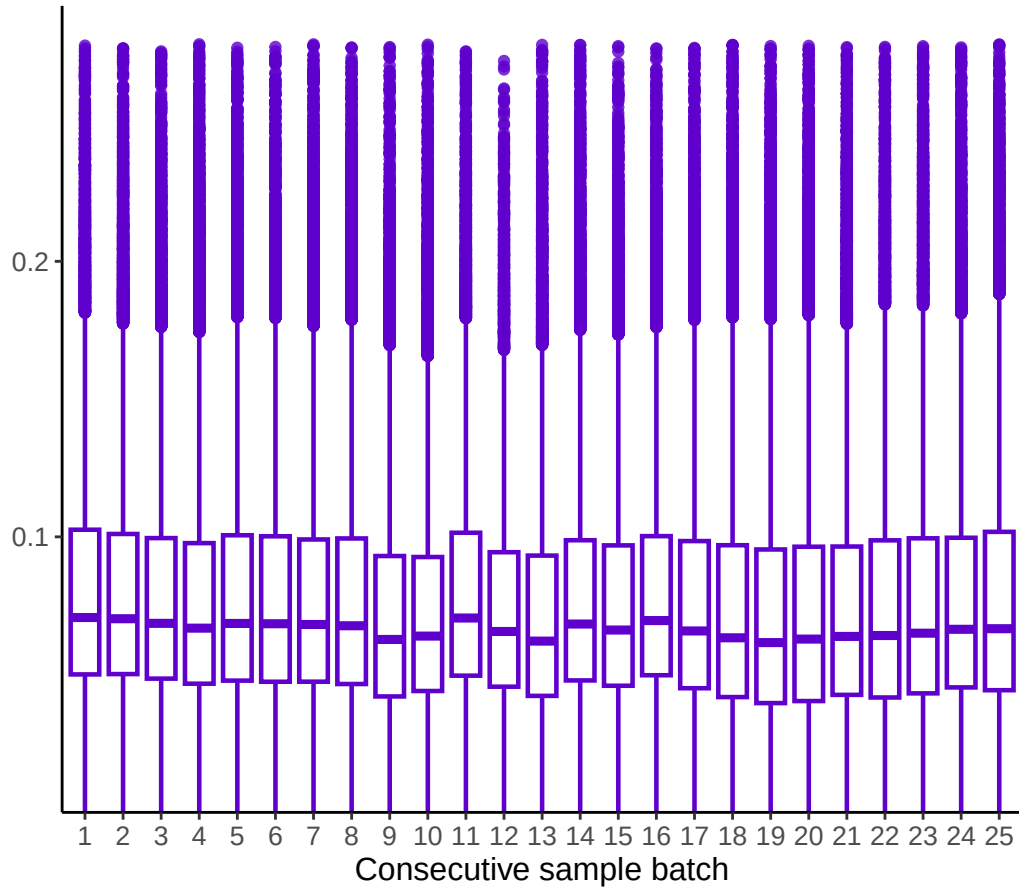
XL_HDL_P



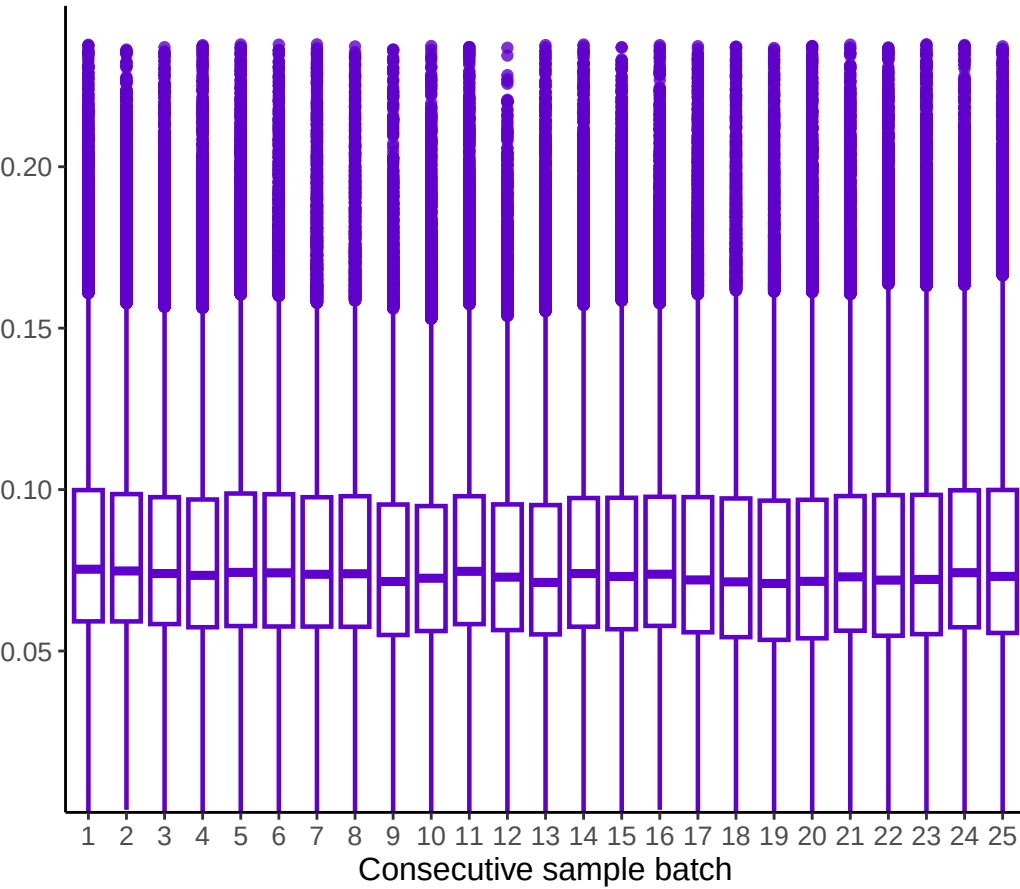
XL_HDL_L



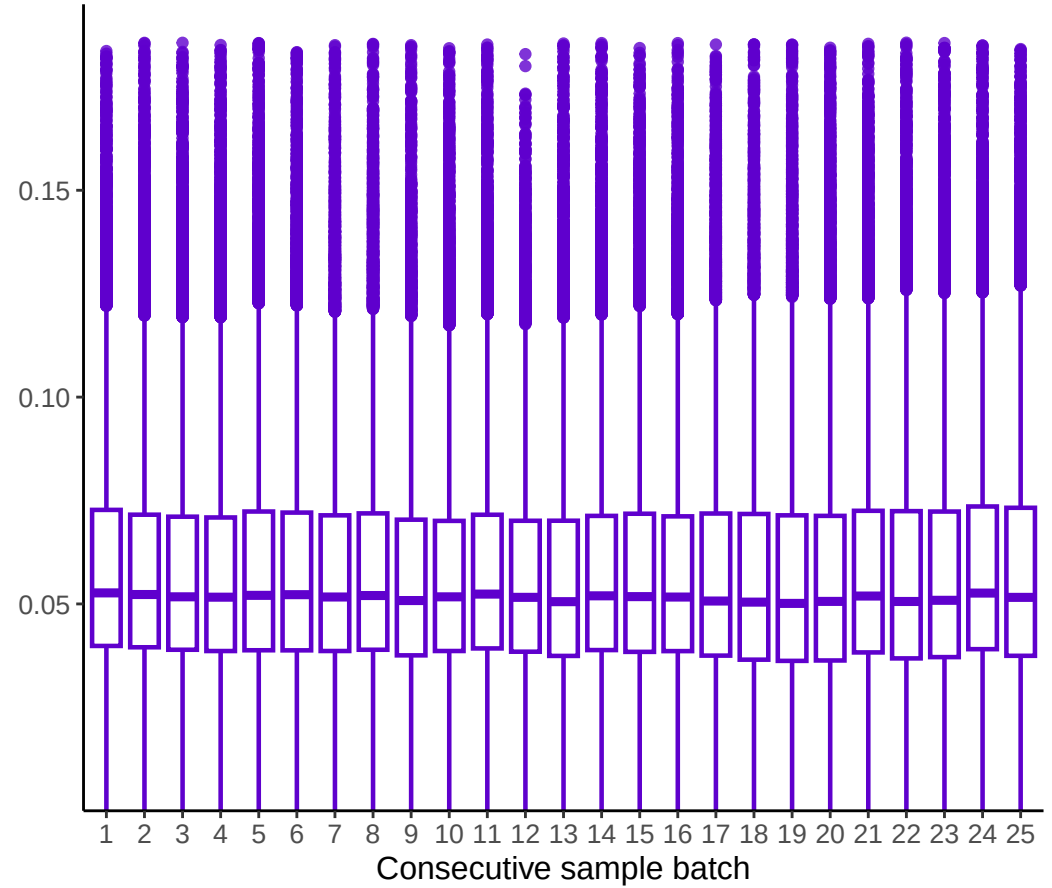
XL_HDL_PL



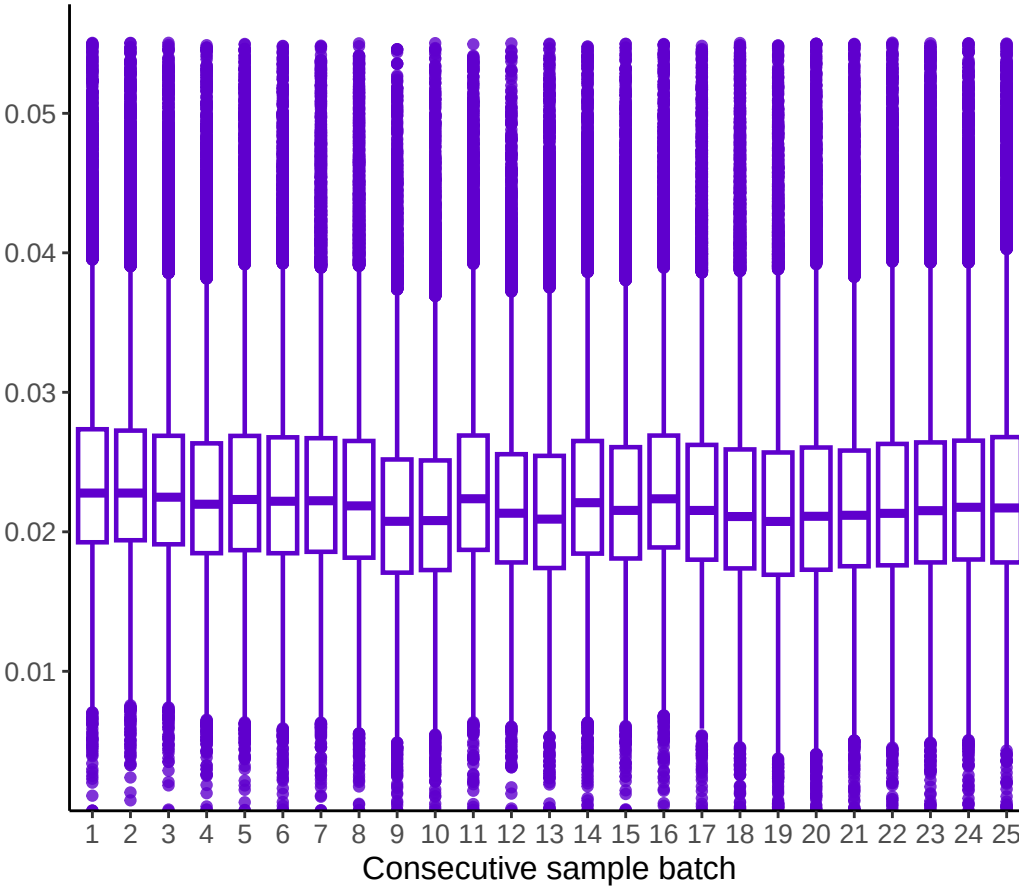
XL_HDL_C



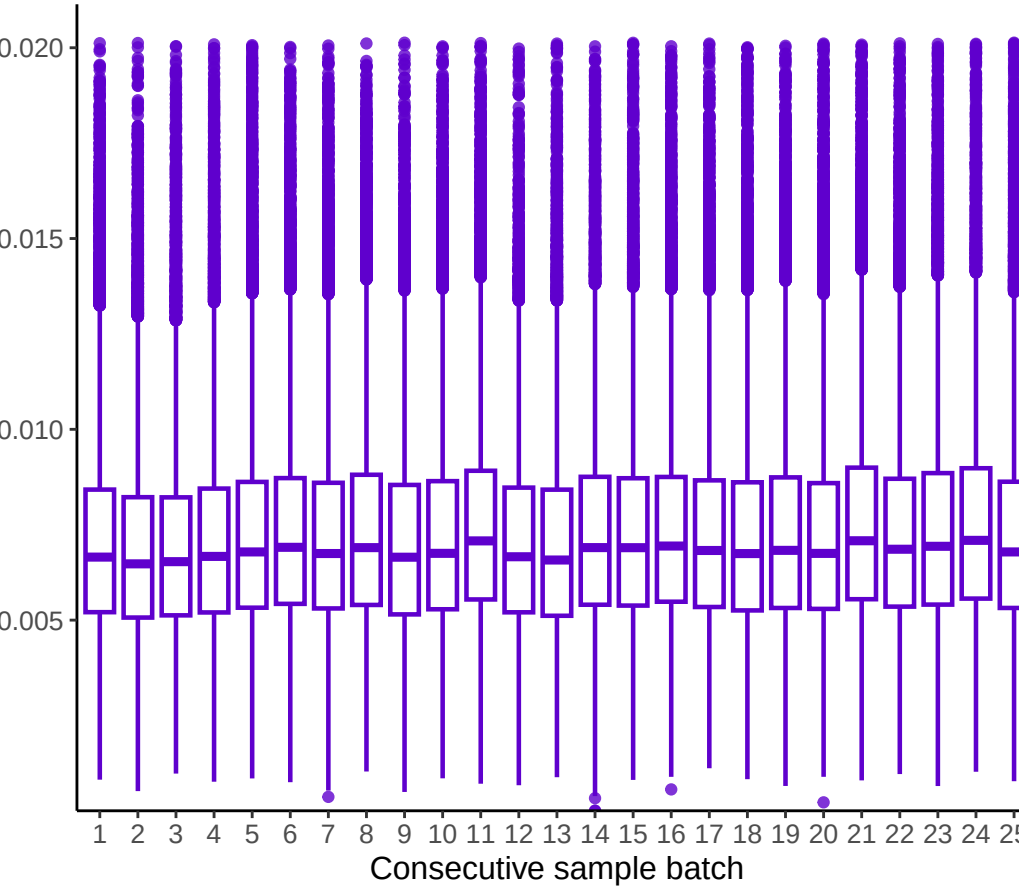
XL_HDL_CE



XL_HDL_FC

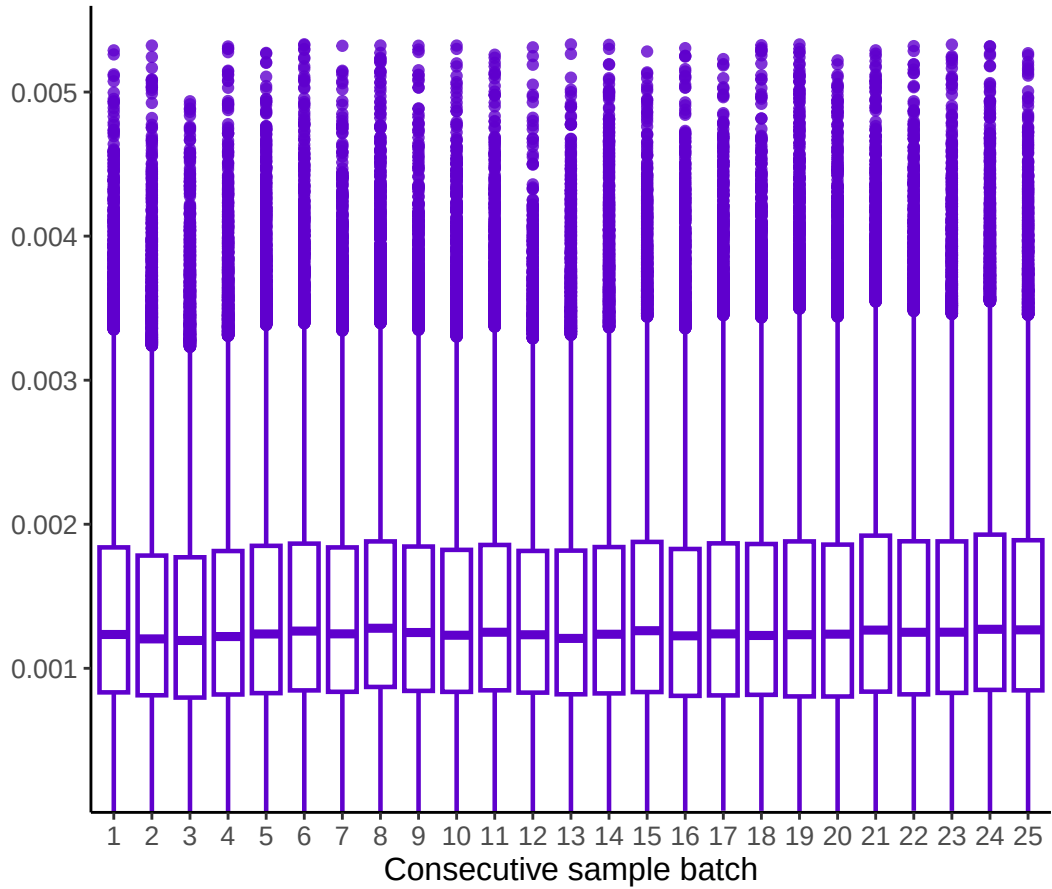


XL_HDL_TG

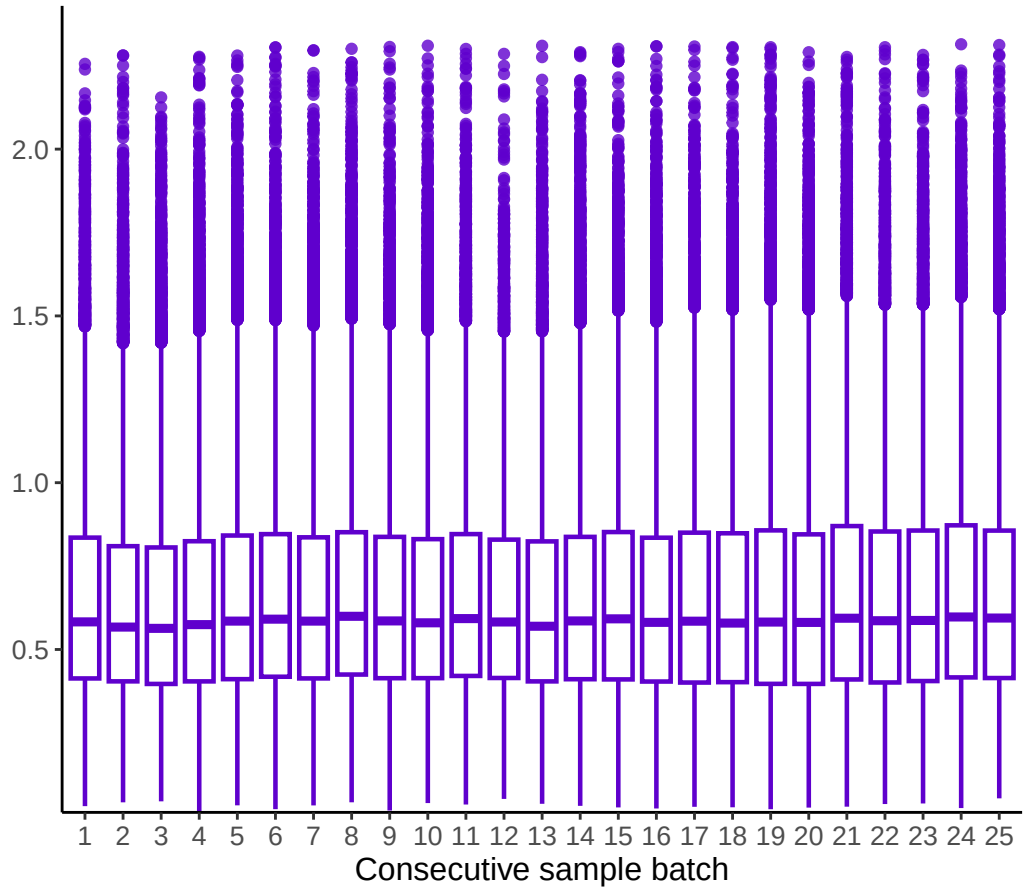


Large HDL (average diameter 12.1 nm)

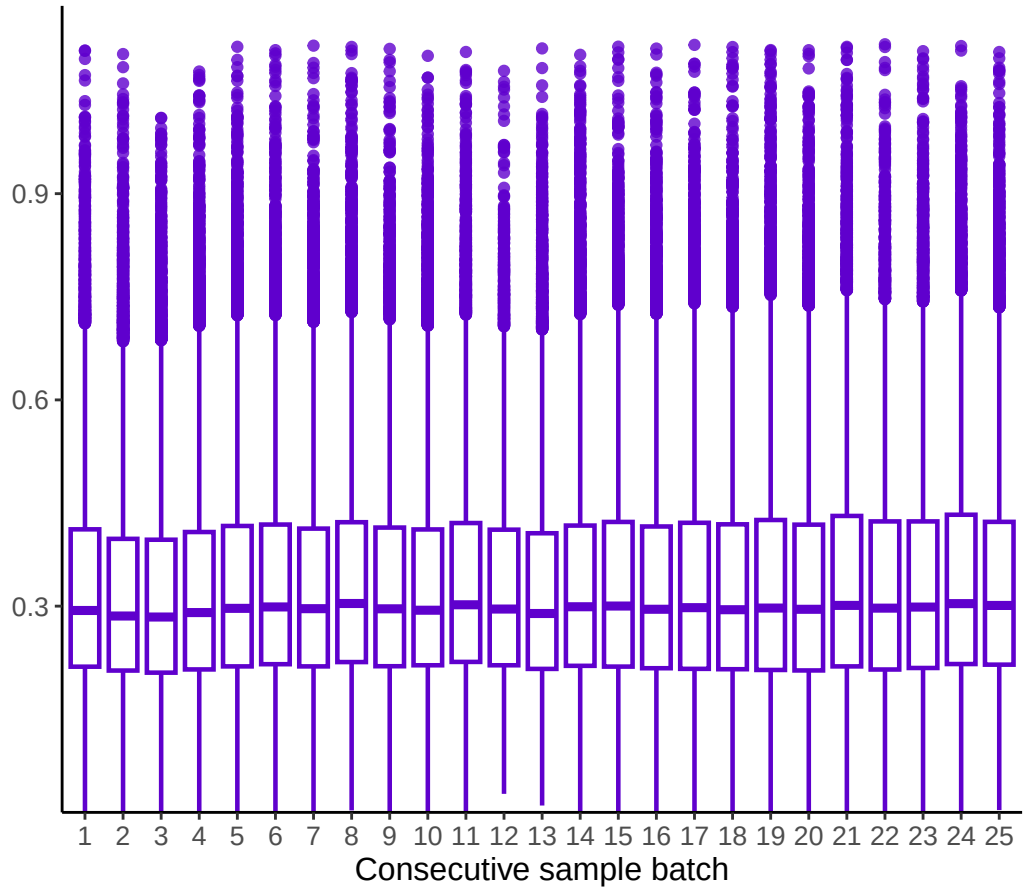
L_HDL_P



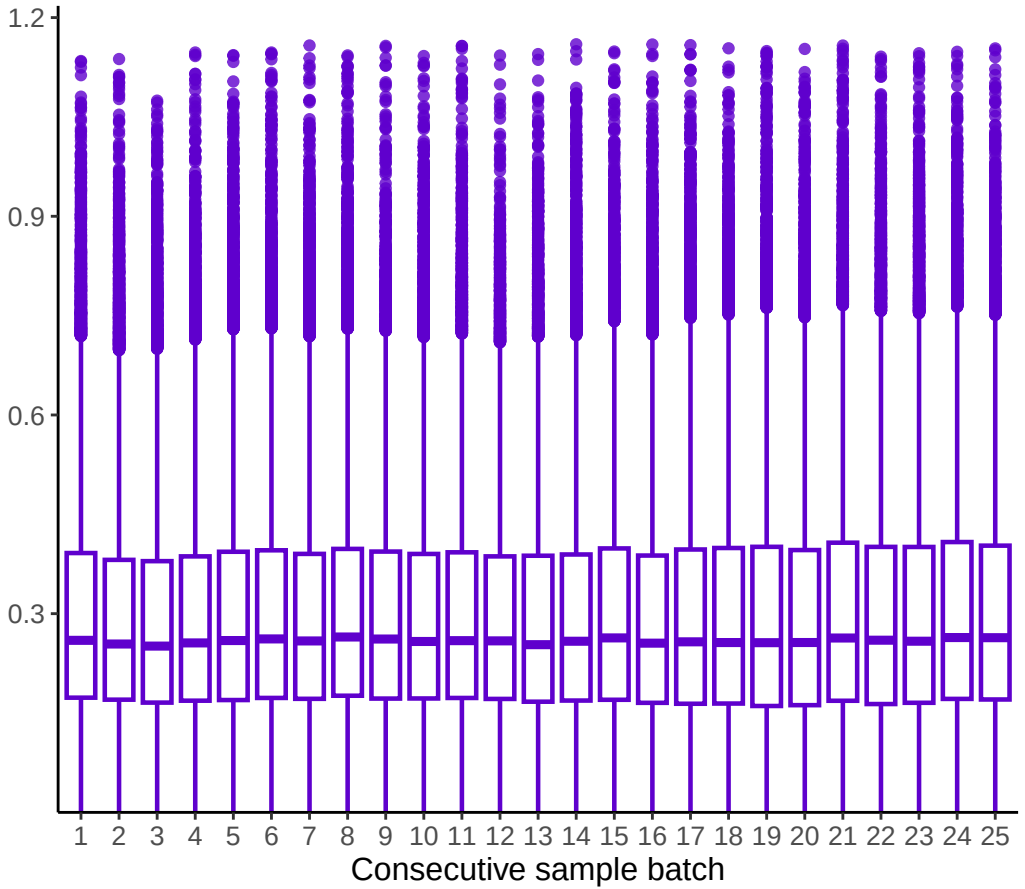
L_HDL_L



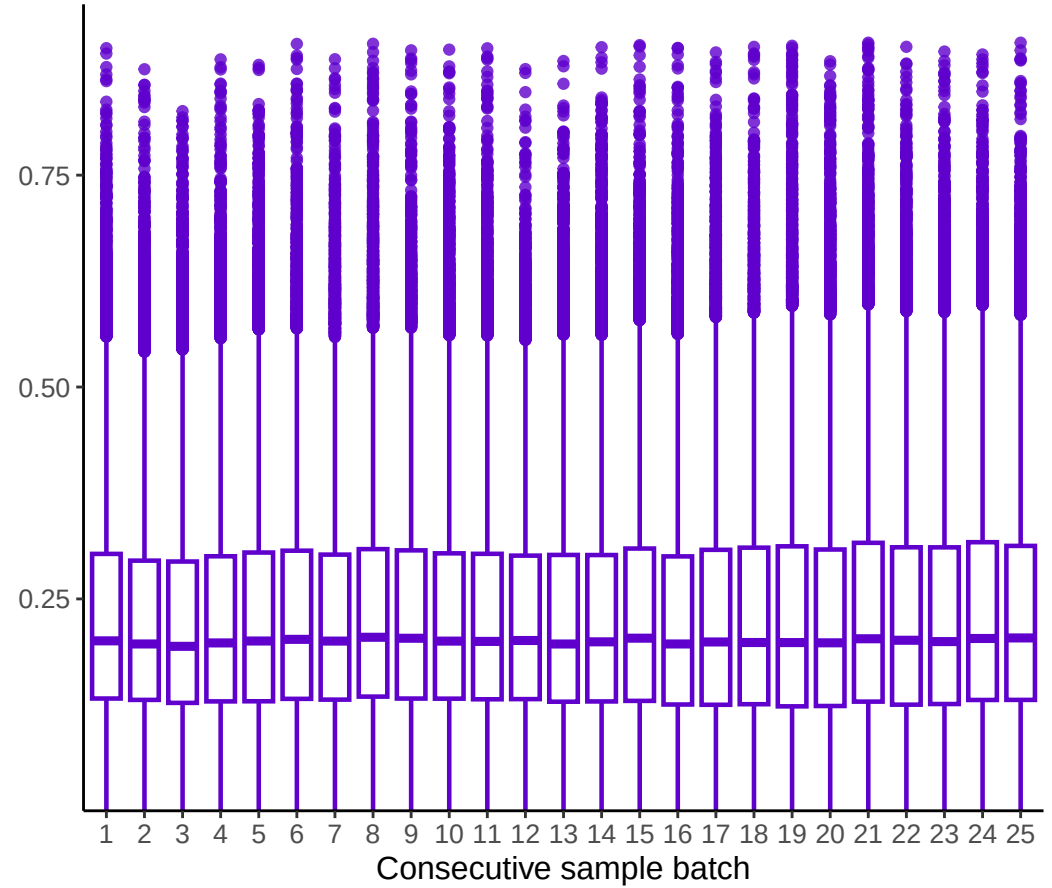
L_HDL_PL



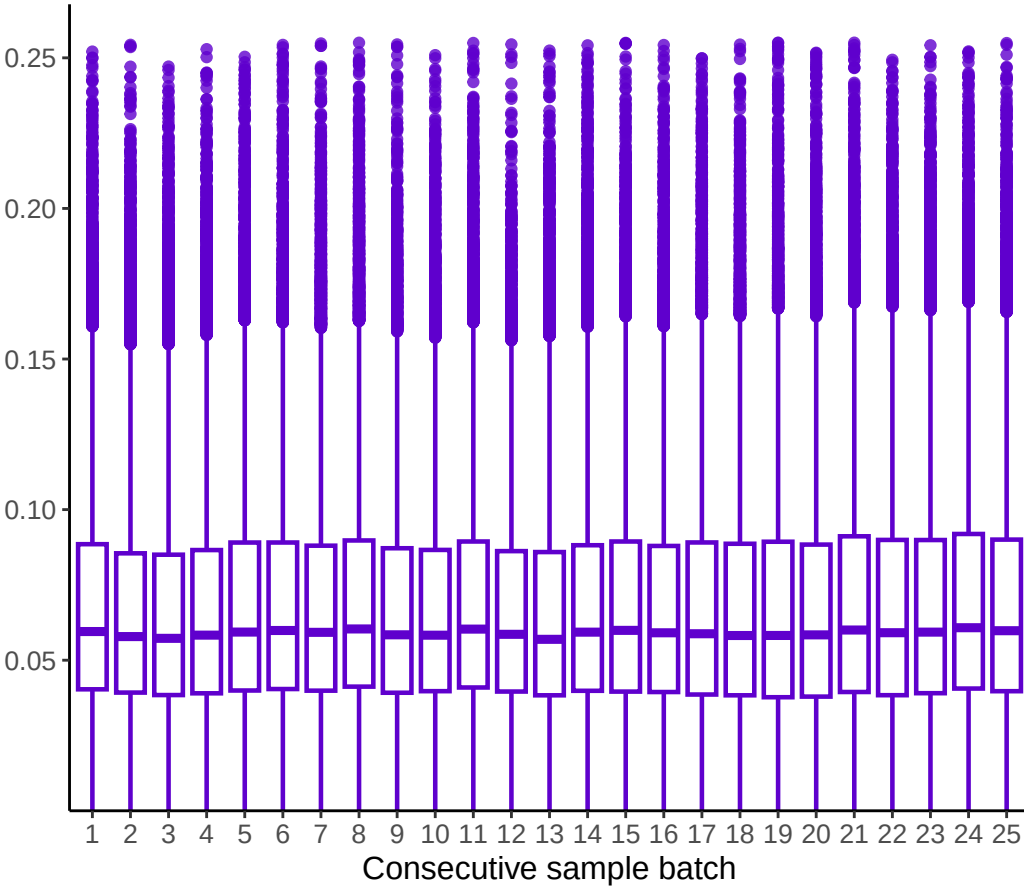
L_HDL_C



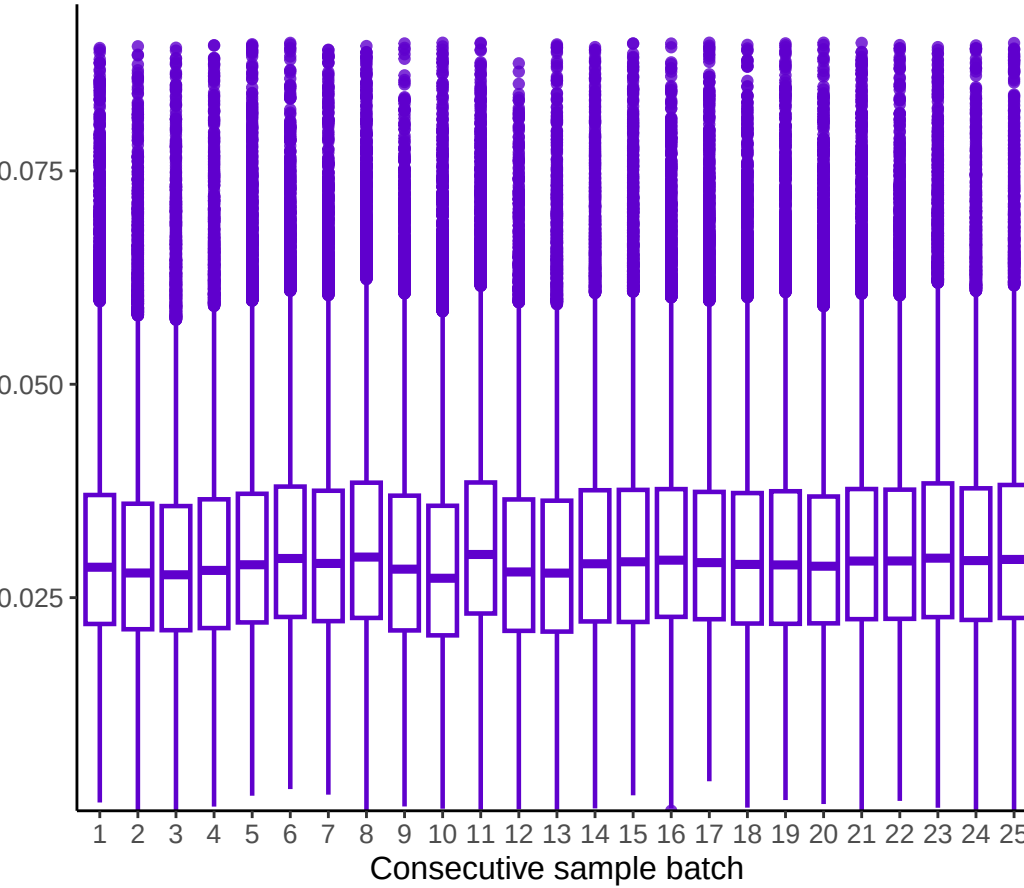
L_HDL_CE



L_HDL_FC

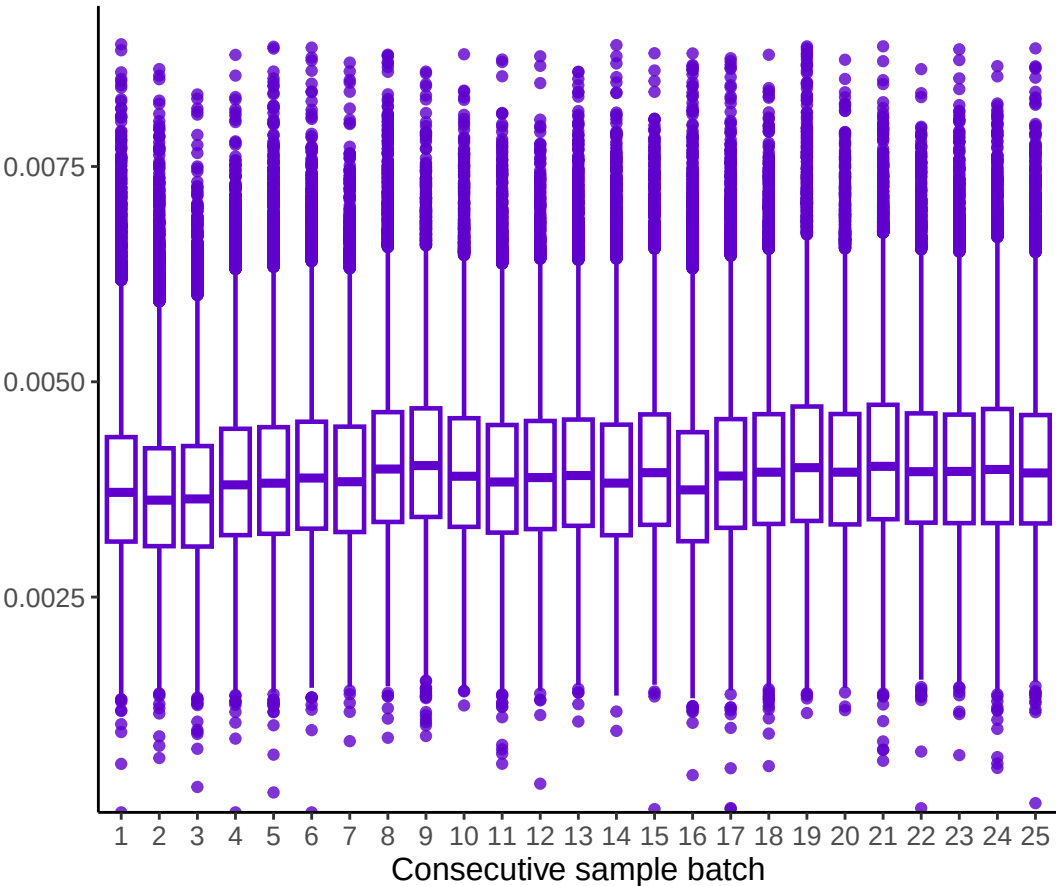


L_HDL_TG

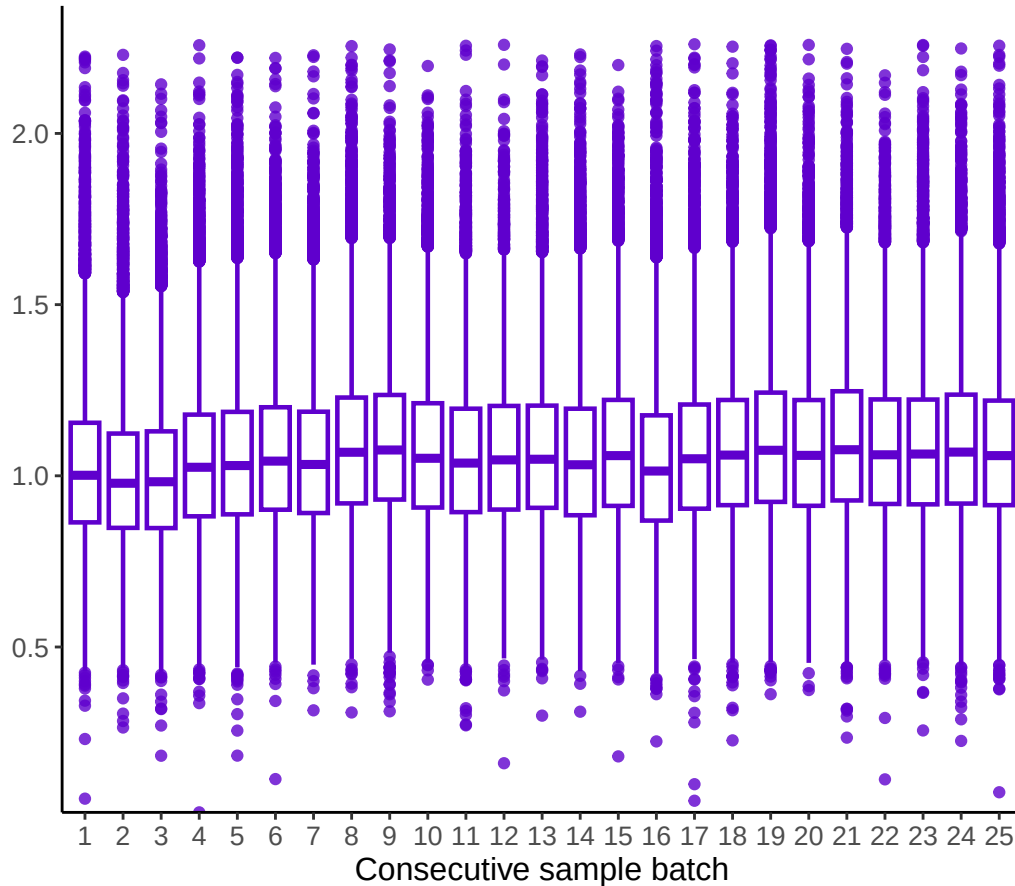


Medium HDL (average diameter 10.9 nm)

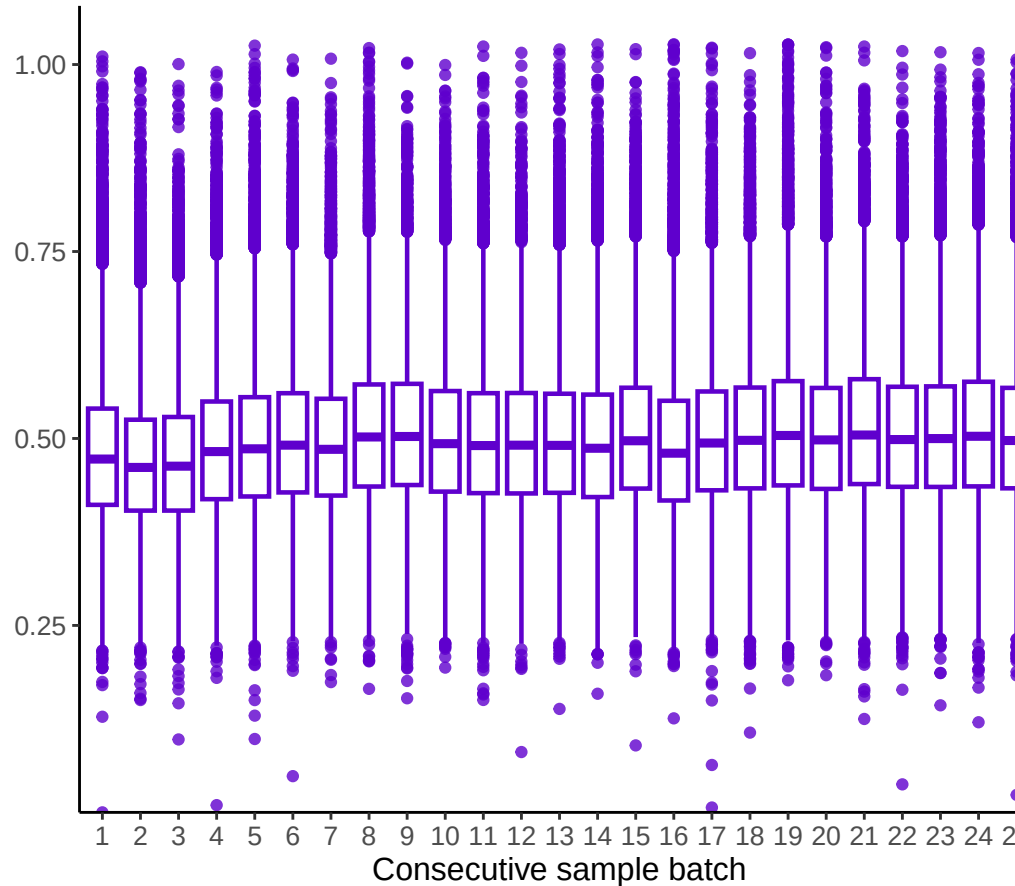
M_HDL_P



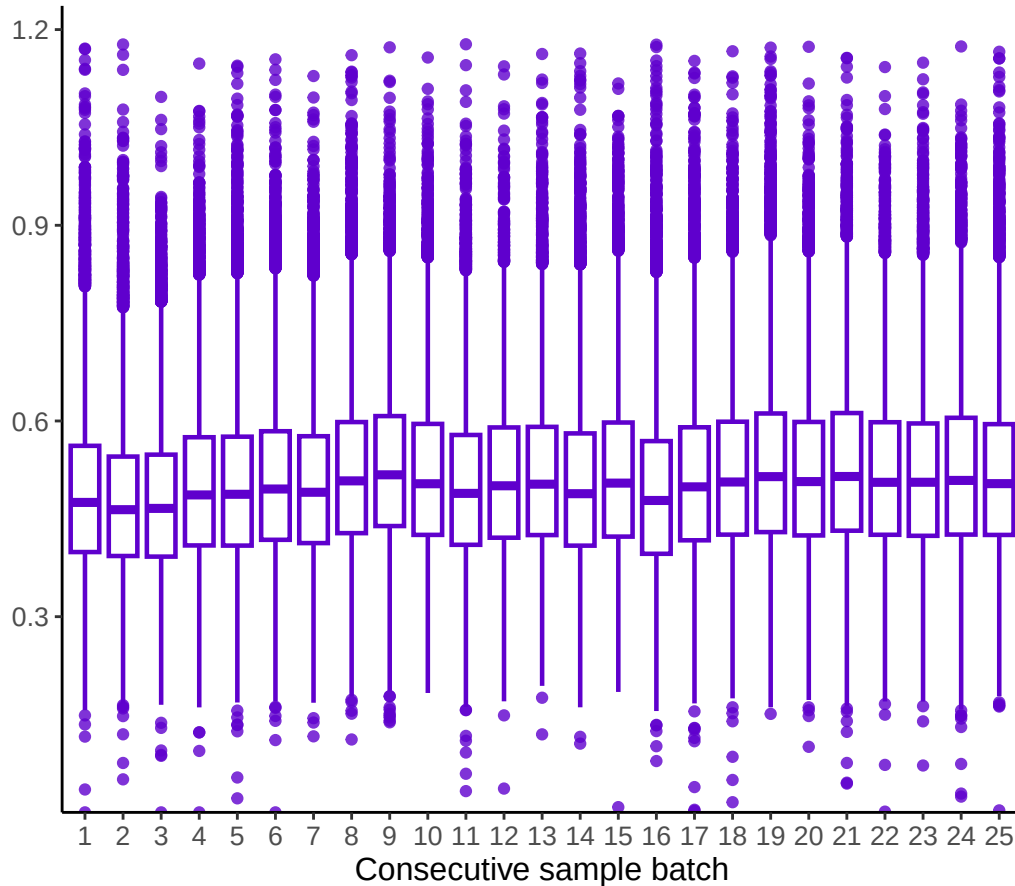
M_HDL_L



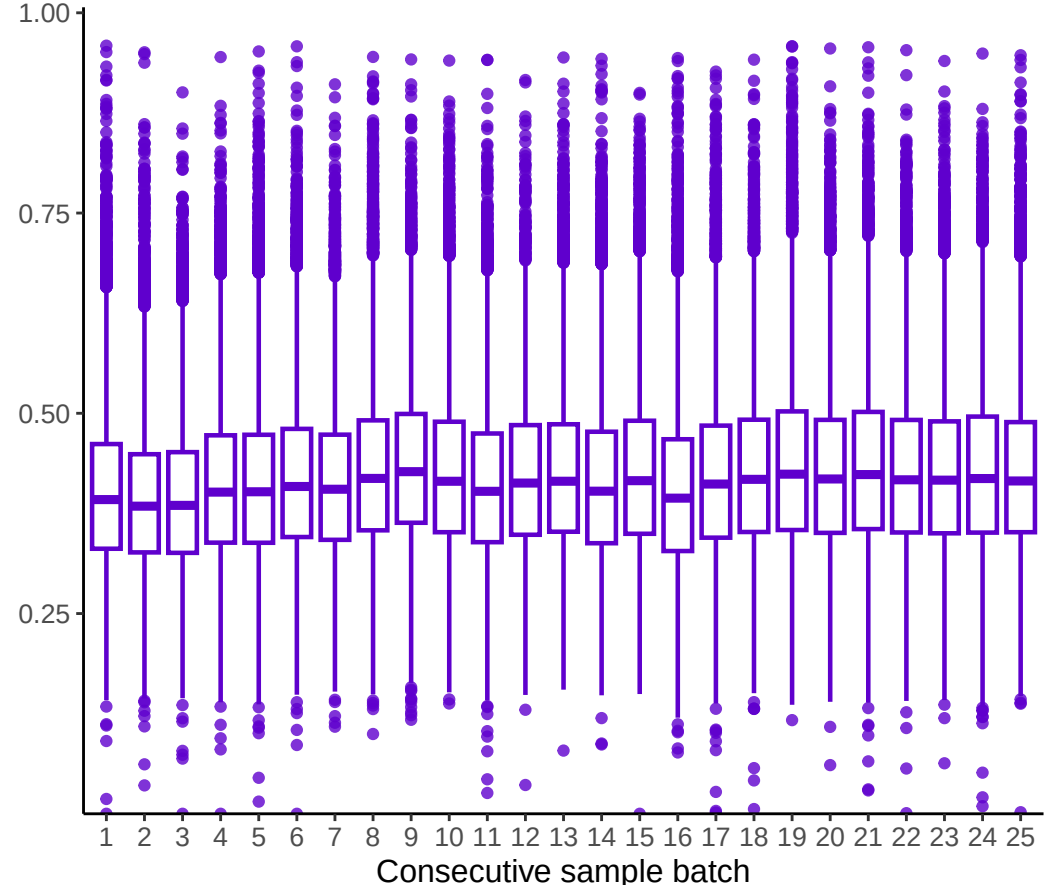
M_HDL_PL



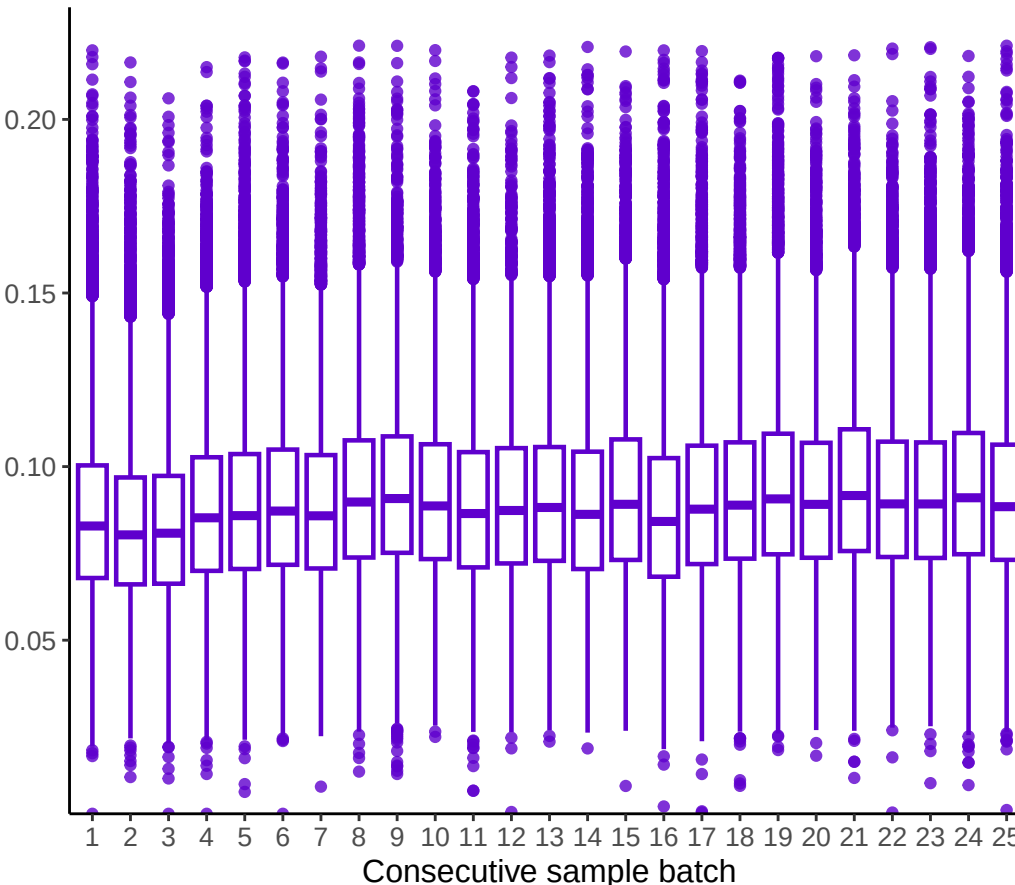
M_HDL_C



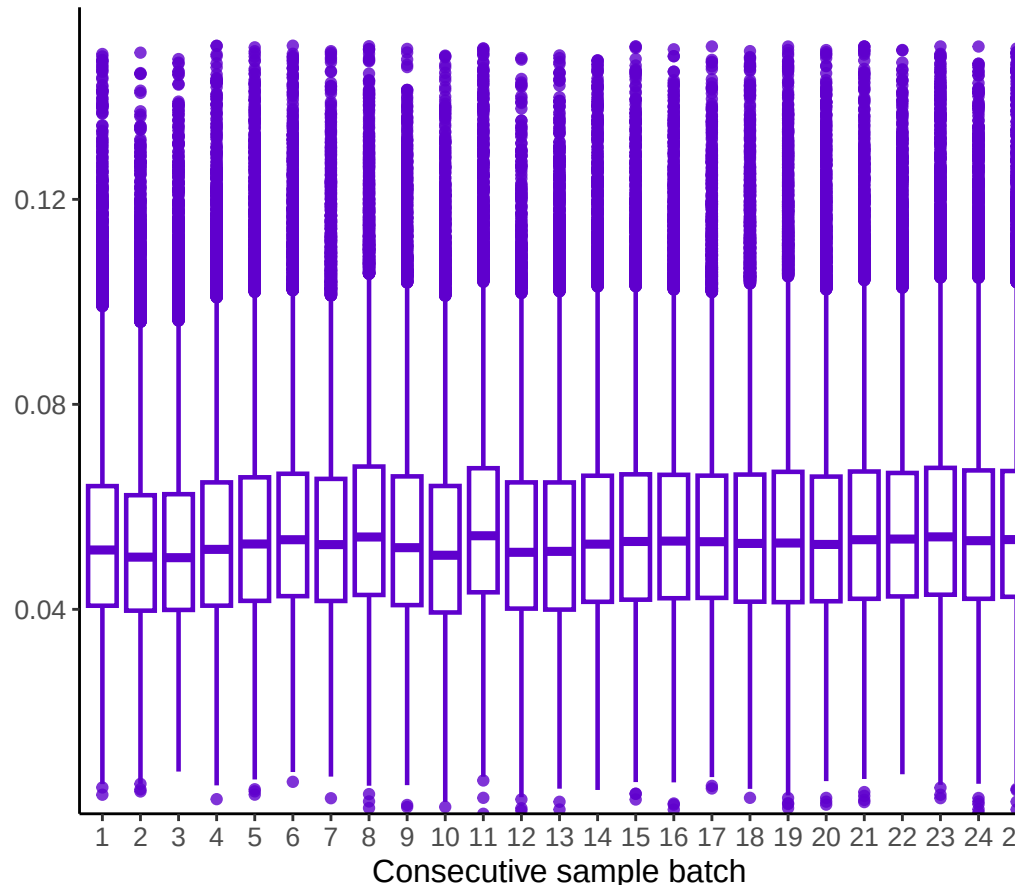
M_HDL_CE



M_HDL_FC

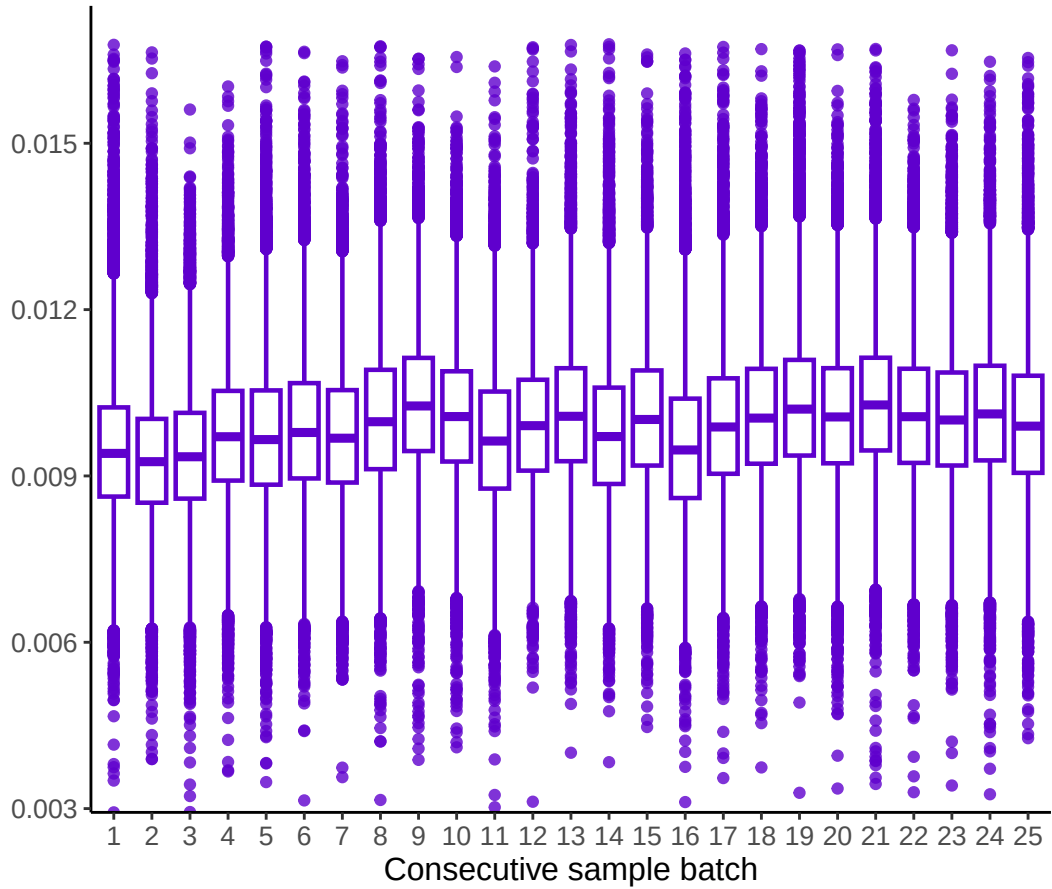


M_HDL_TG

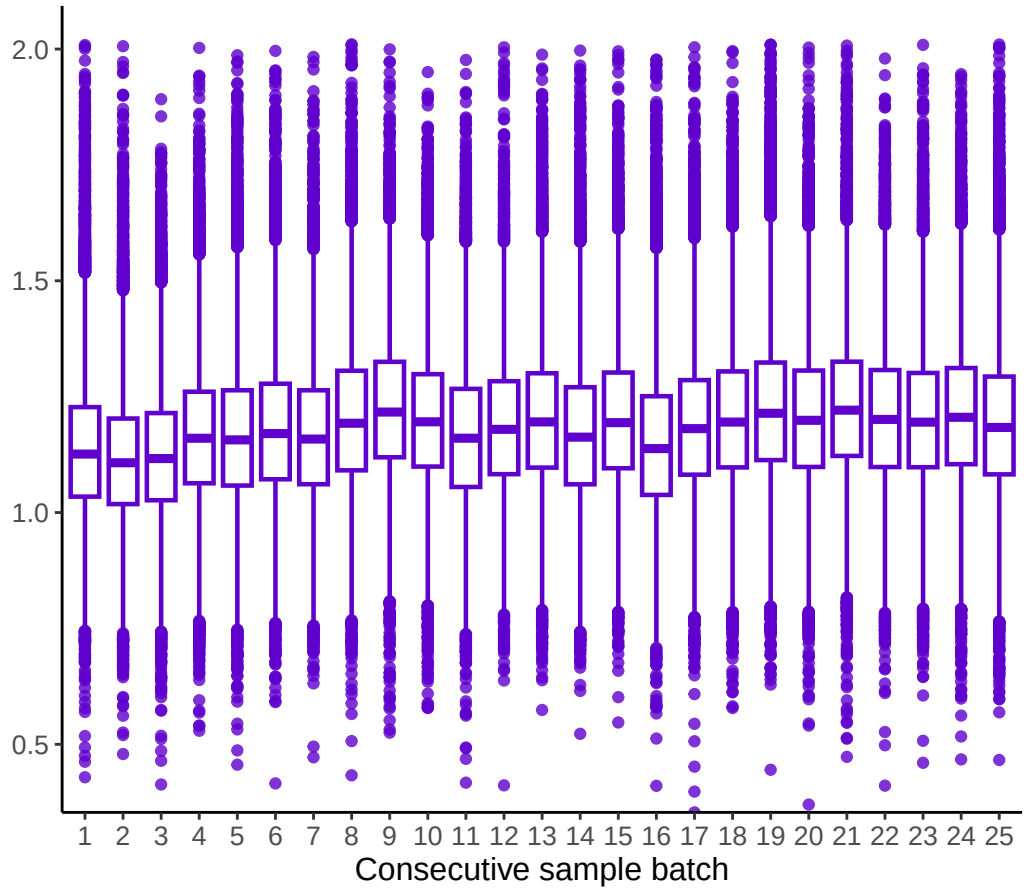


Small HDL (average diameter 8.7 nm)

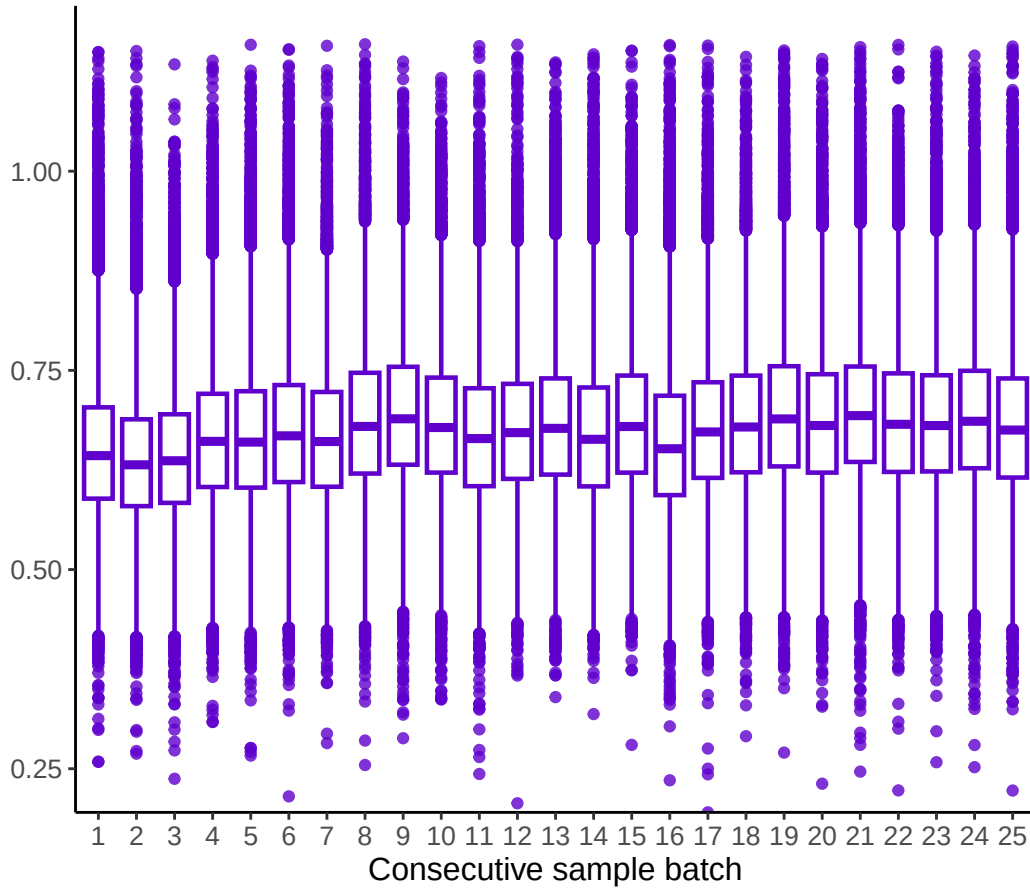
S_HDL_P



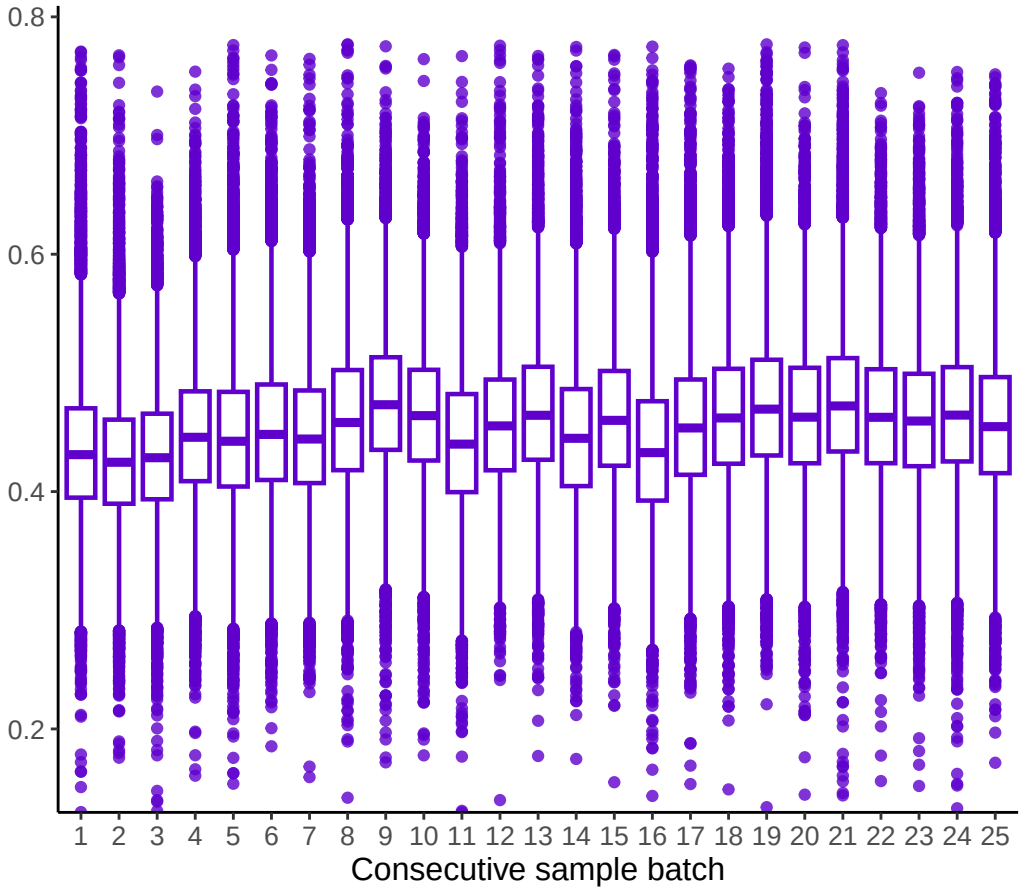
S_HDL_L



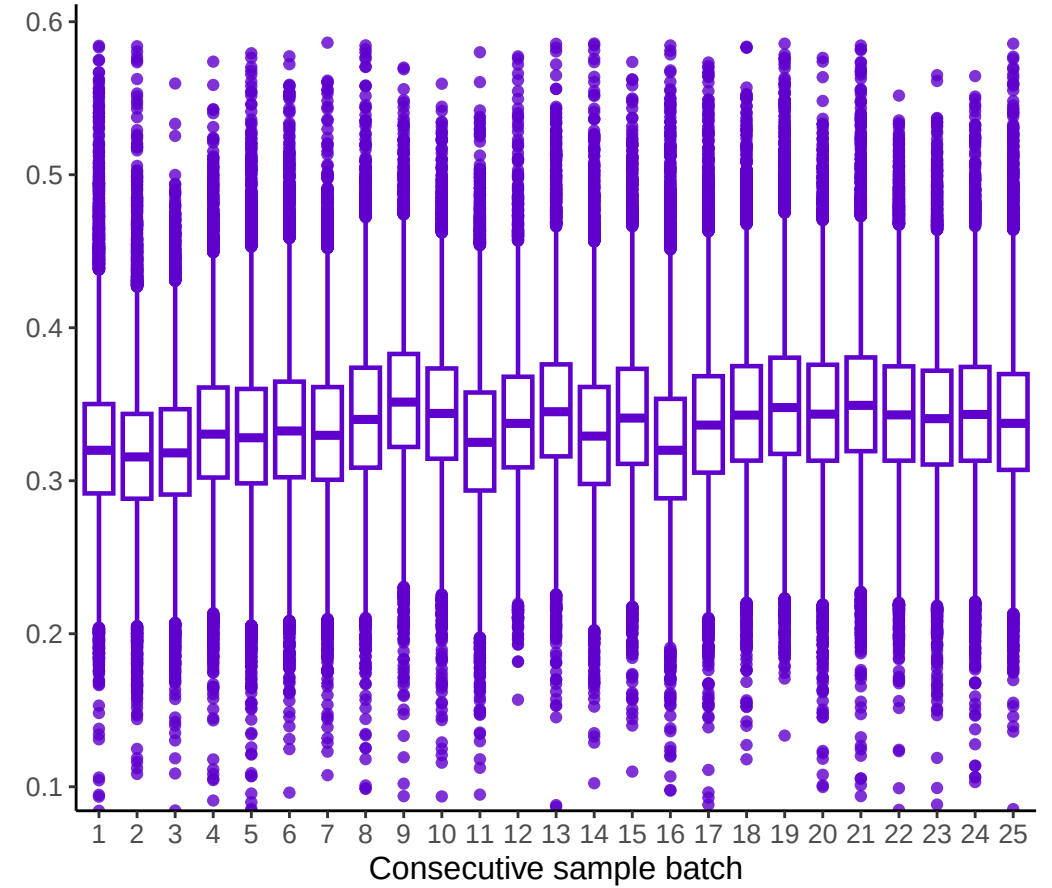
S_HDL_PL



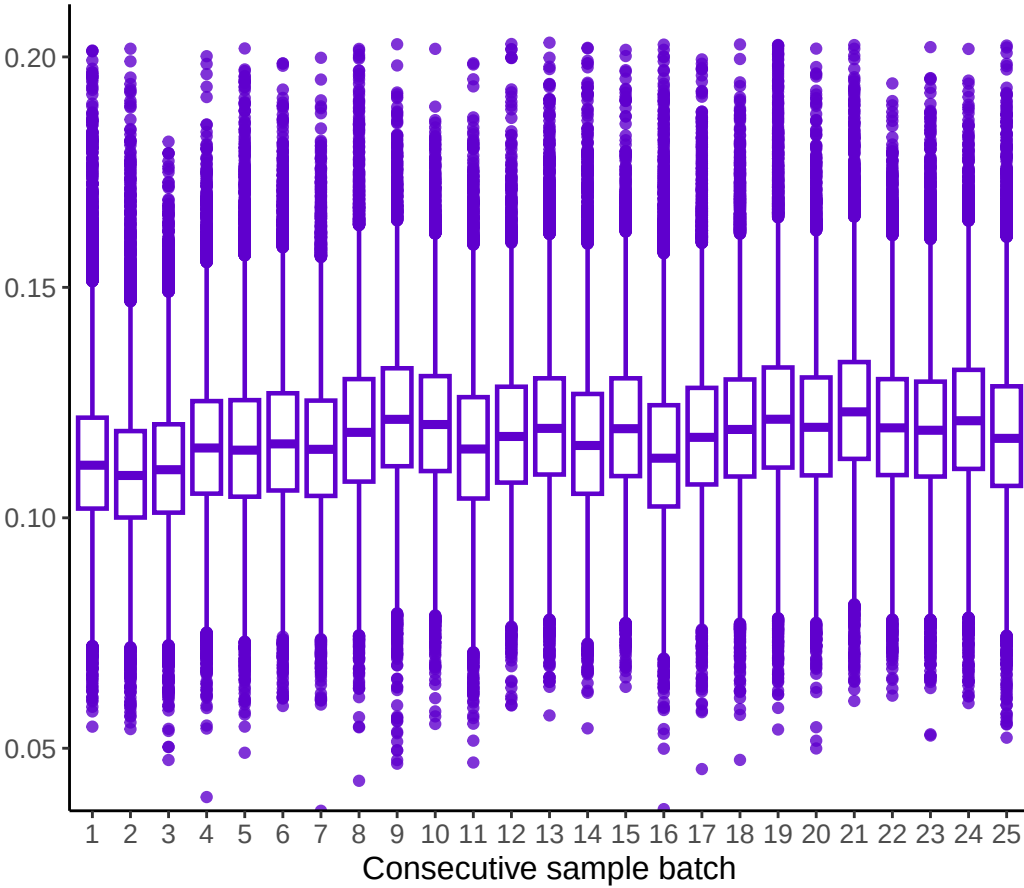
S_HDL_C



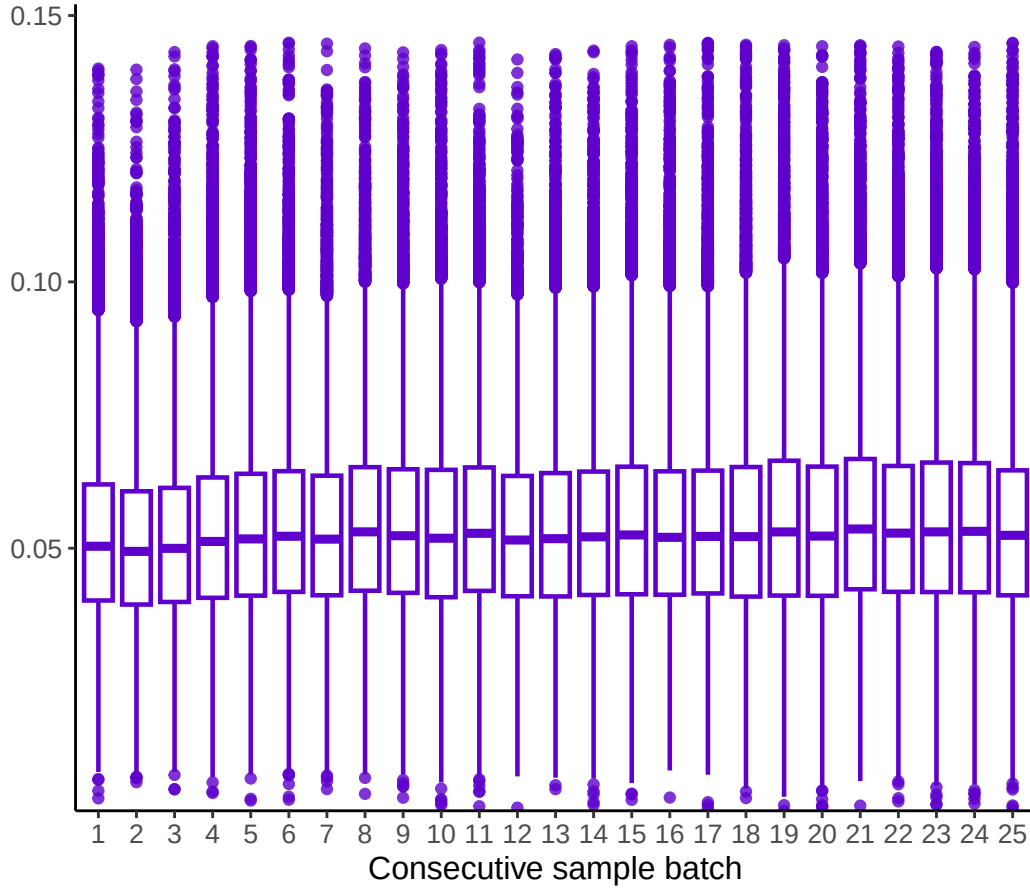
S_HDL_CE



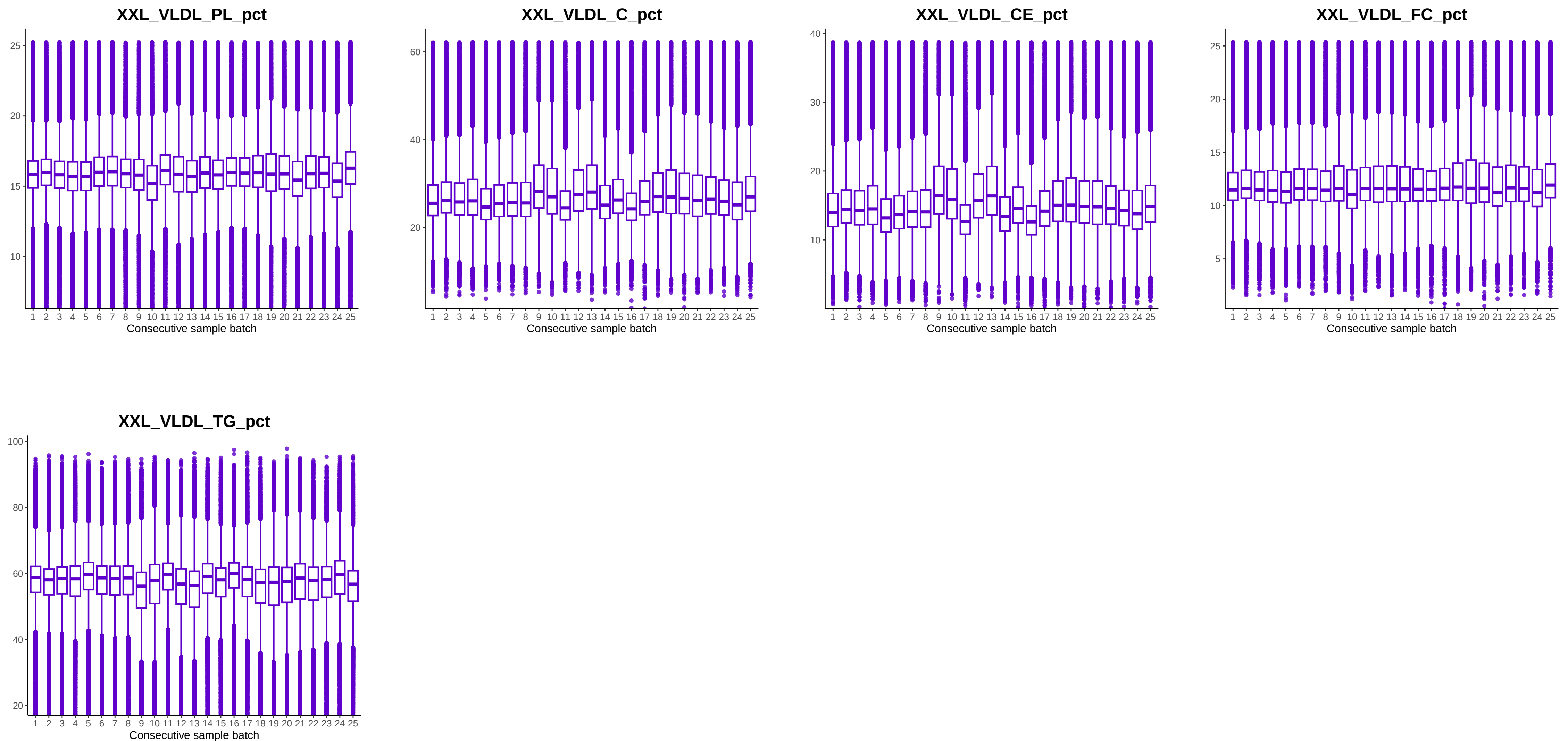
S_HDL_FC



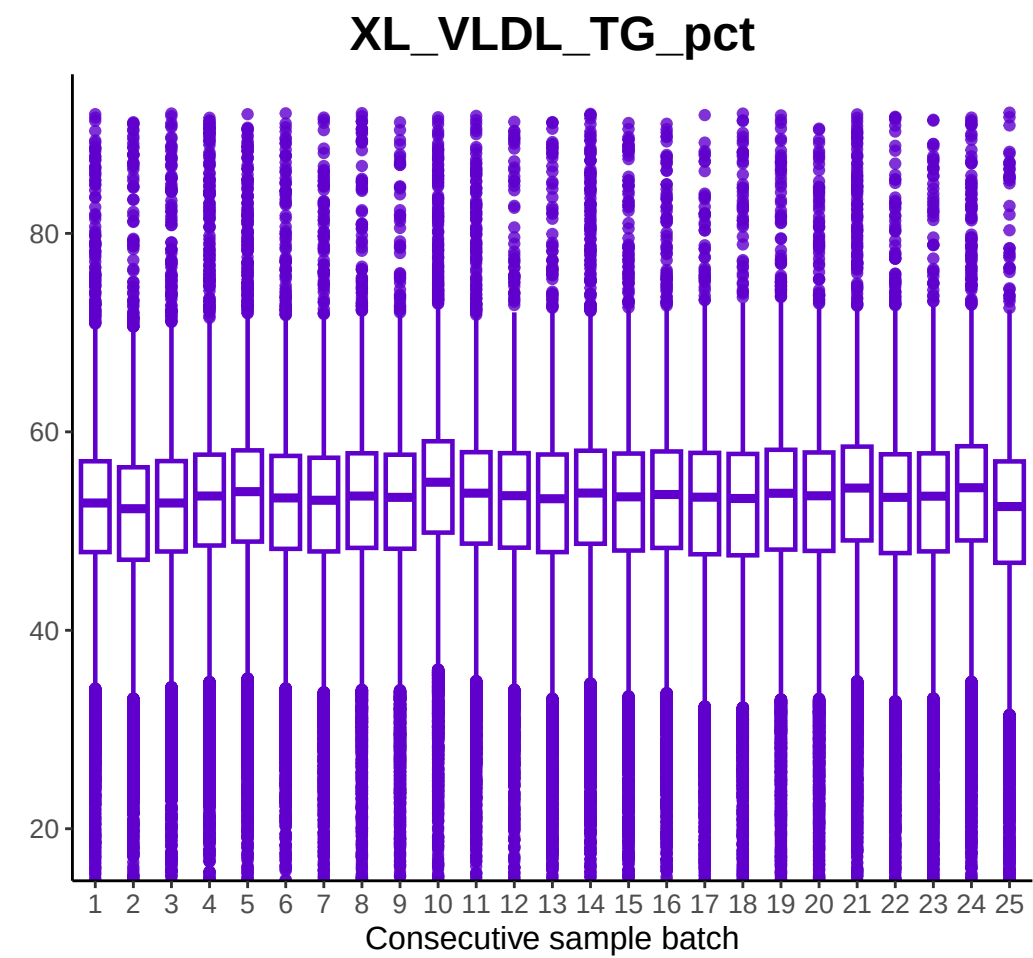
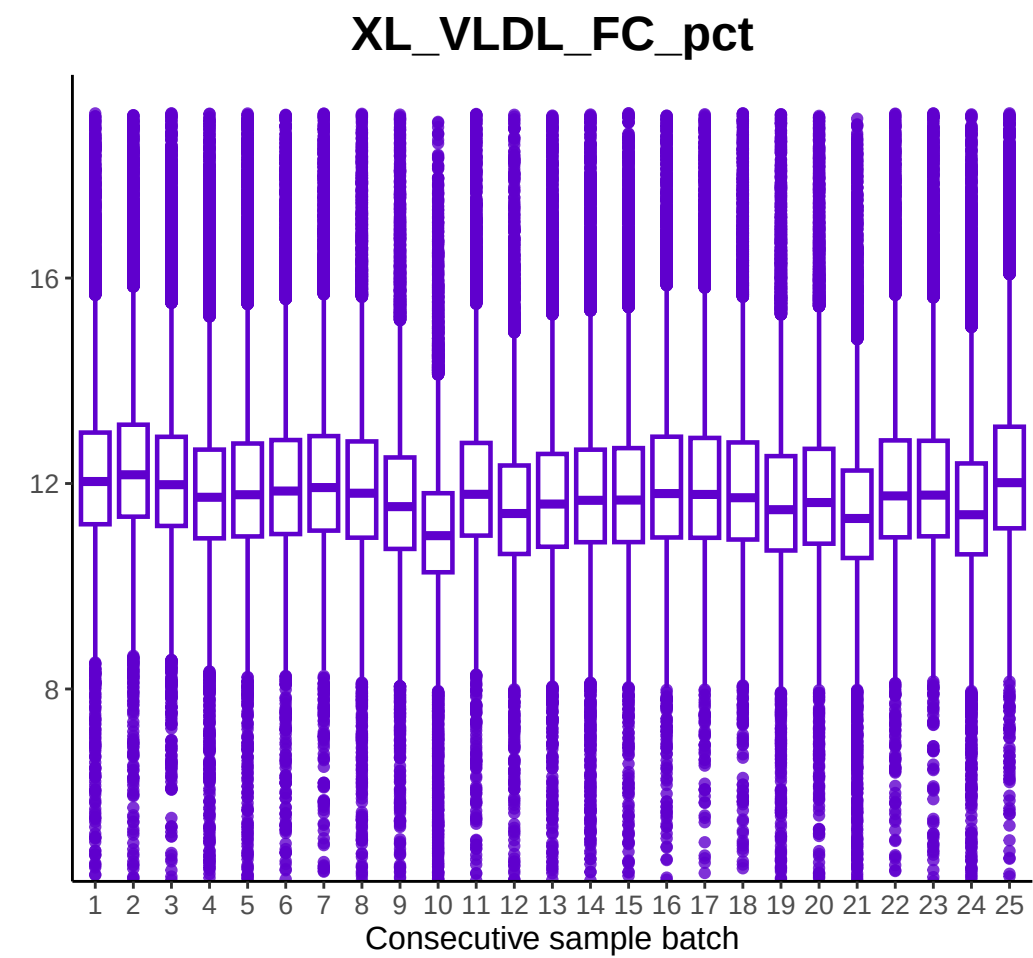
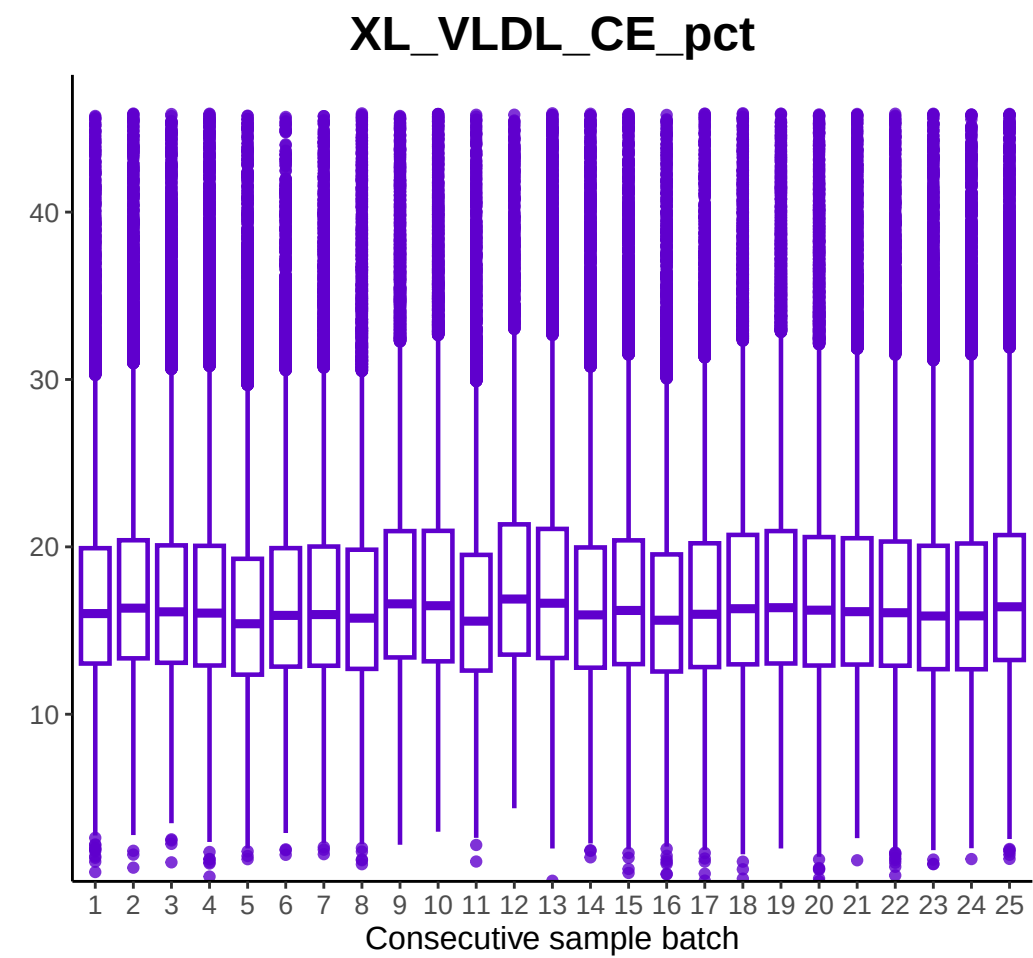
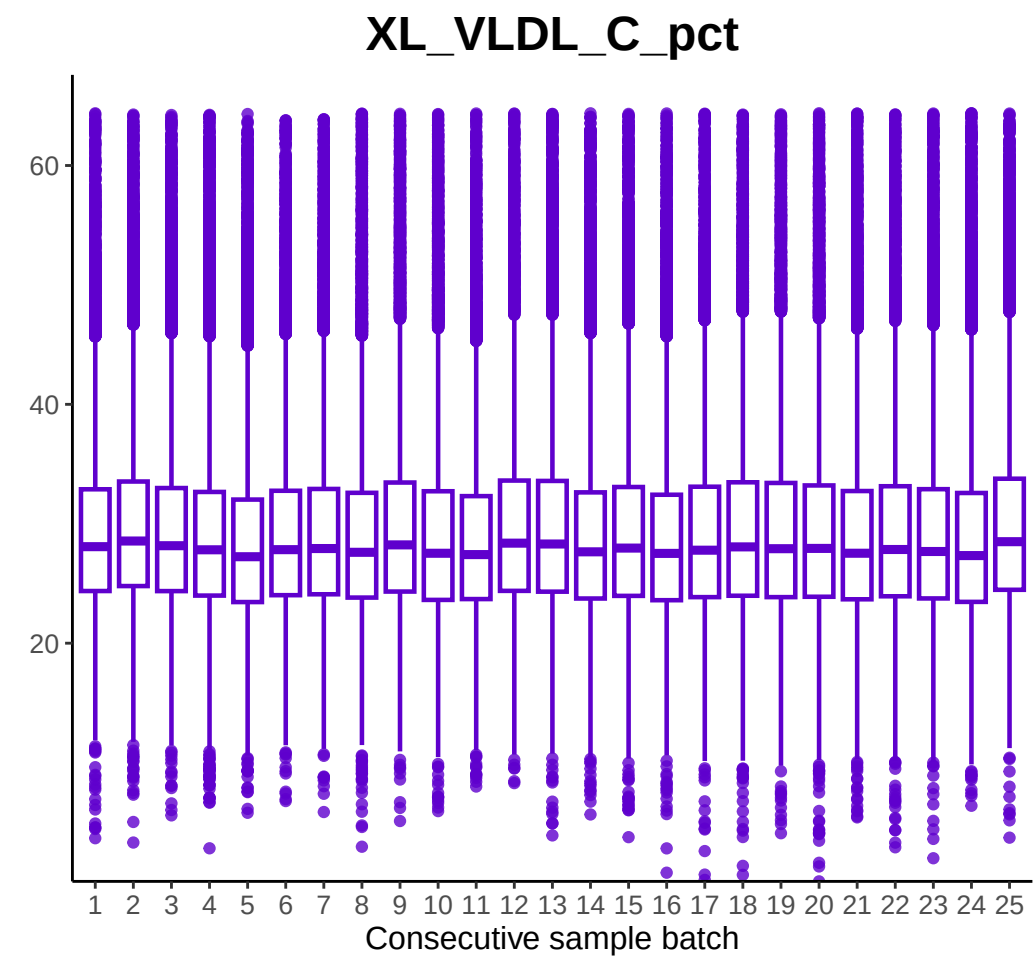
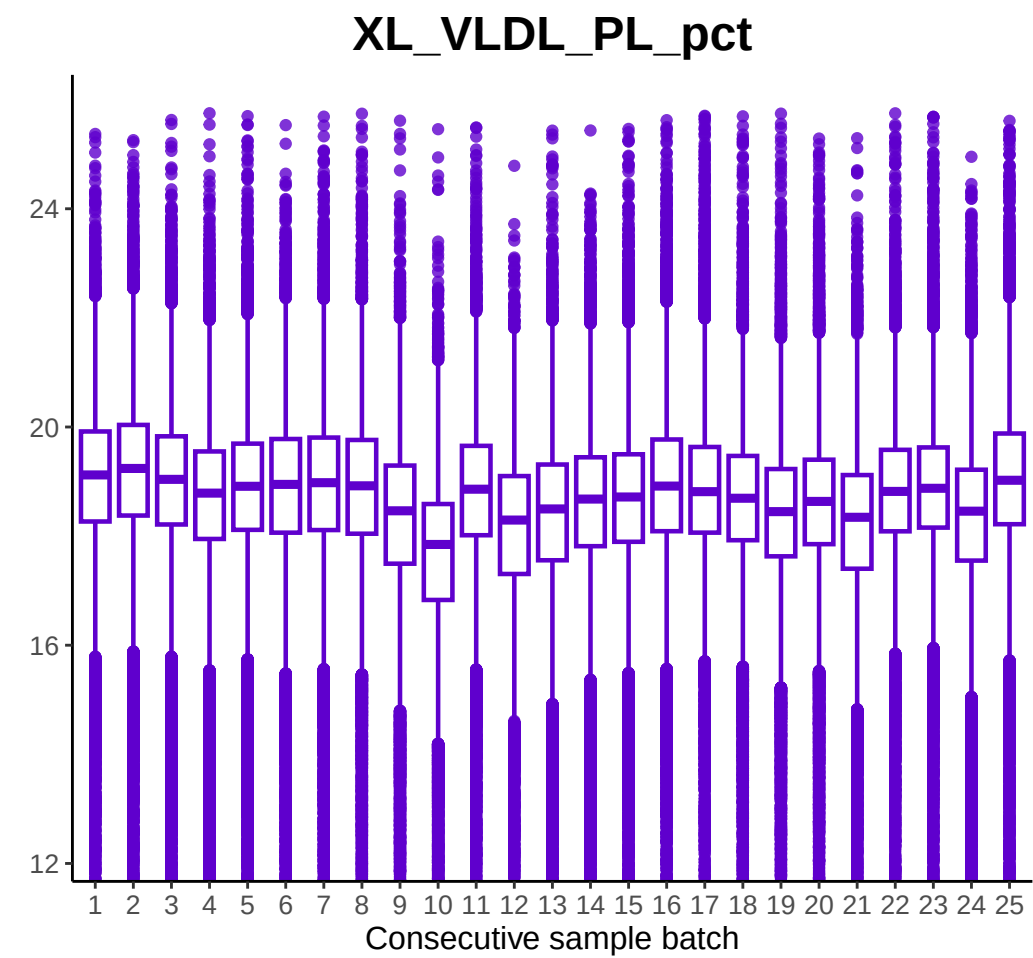
S_HDL_TG



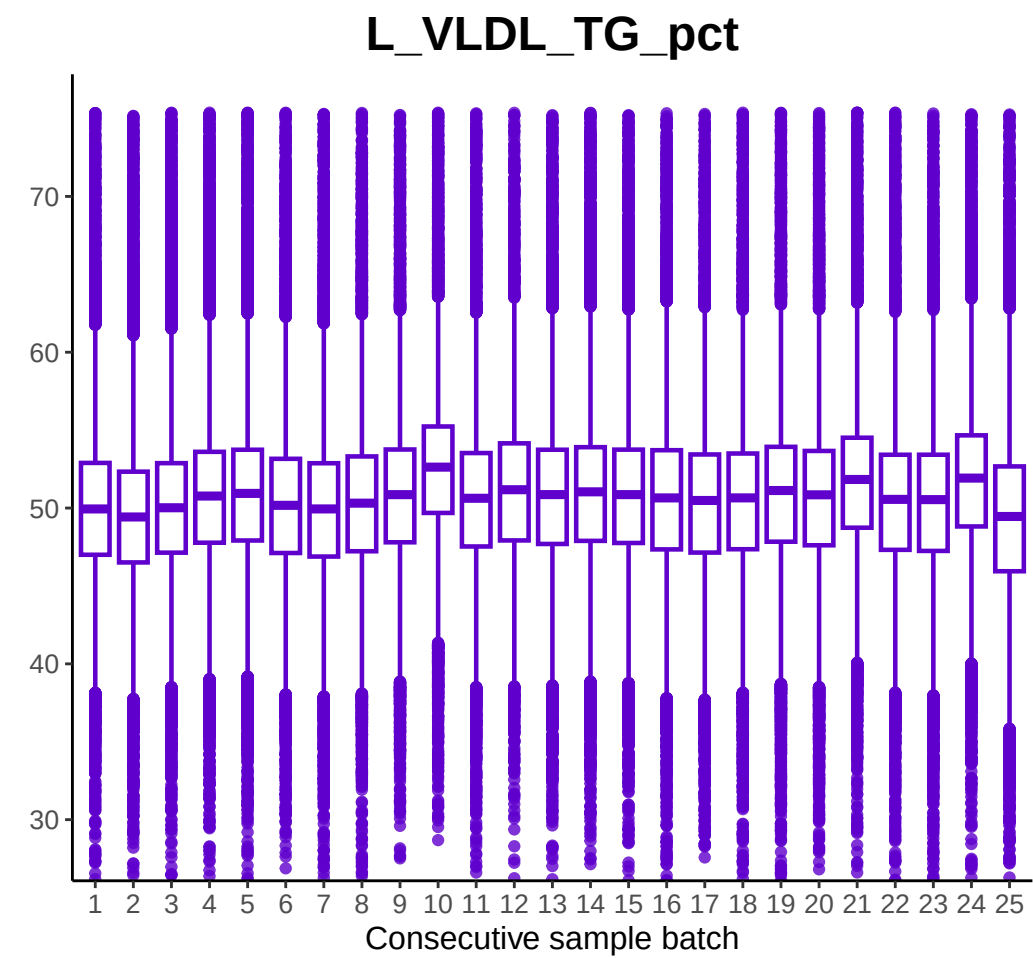
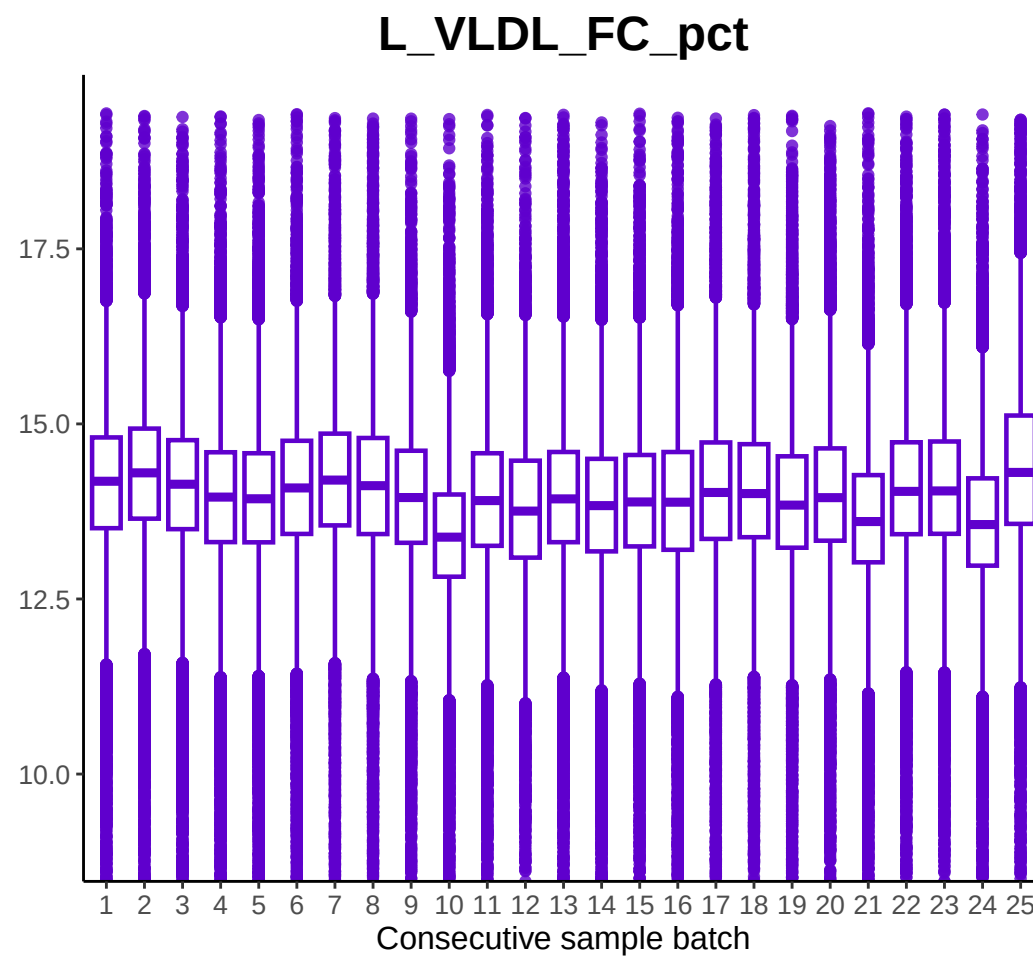
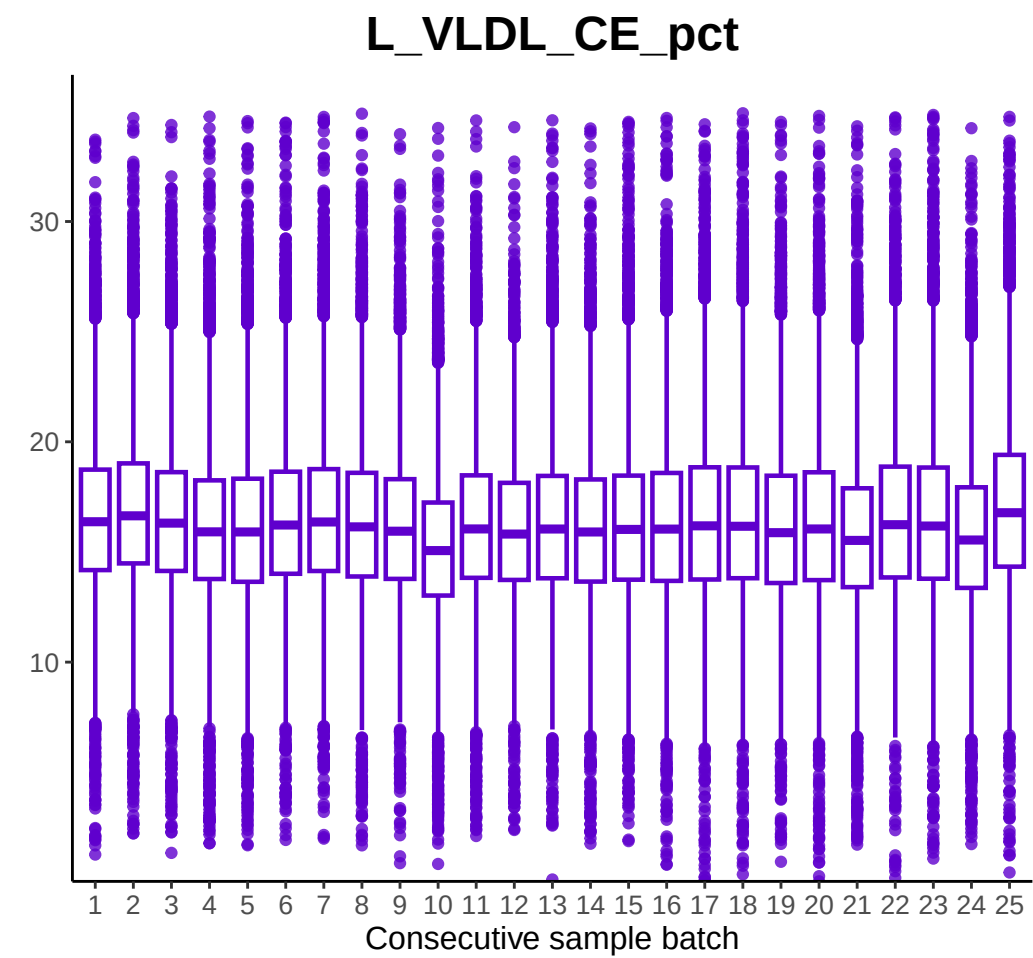
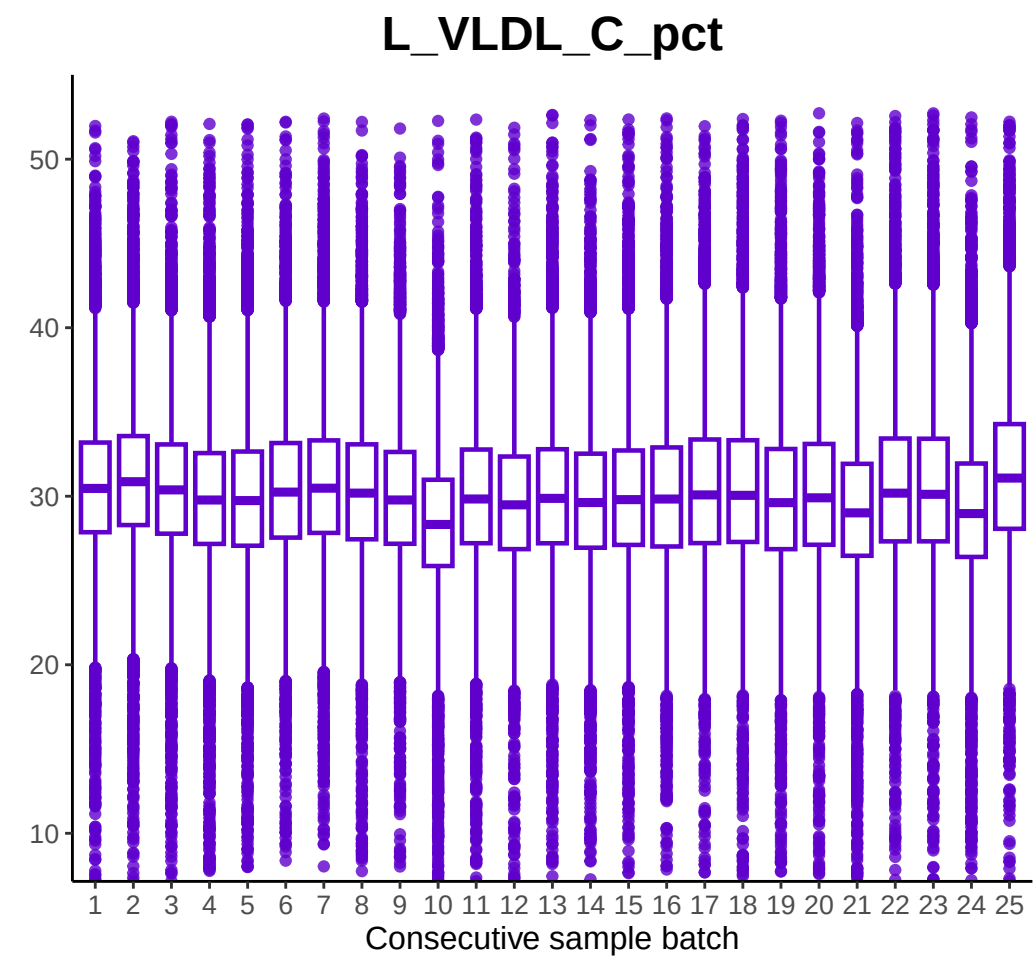
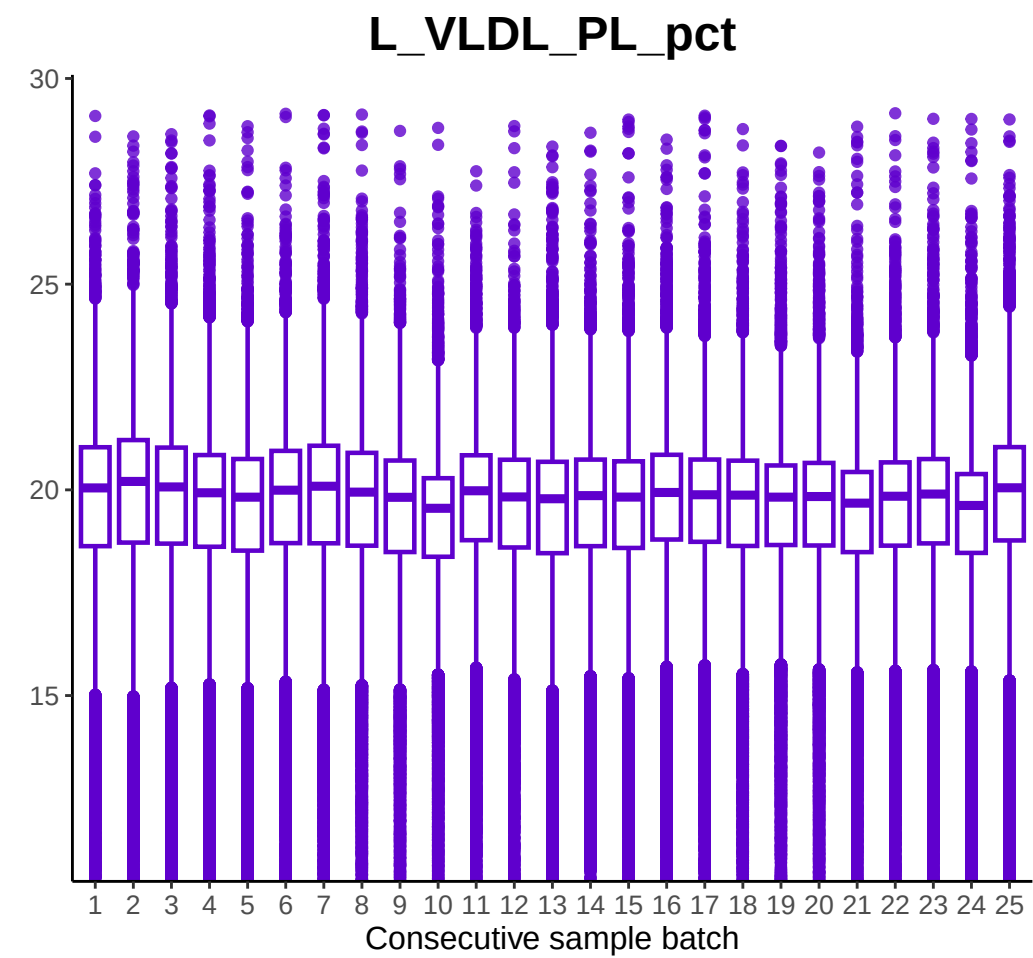
Chylomicrons and extremely large VLDL ratios



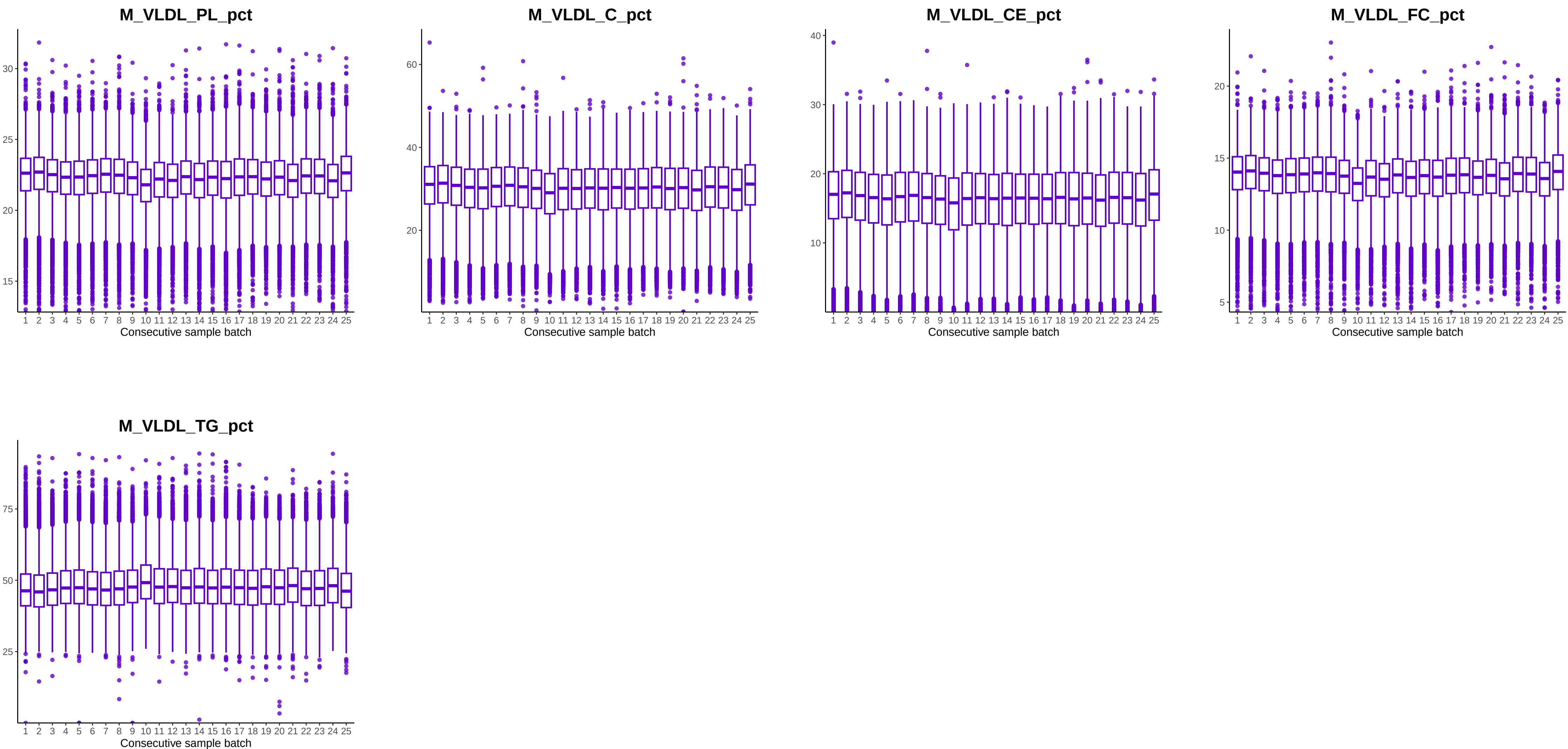
Very large VLDL ratios



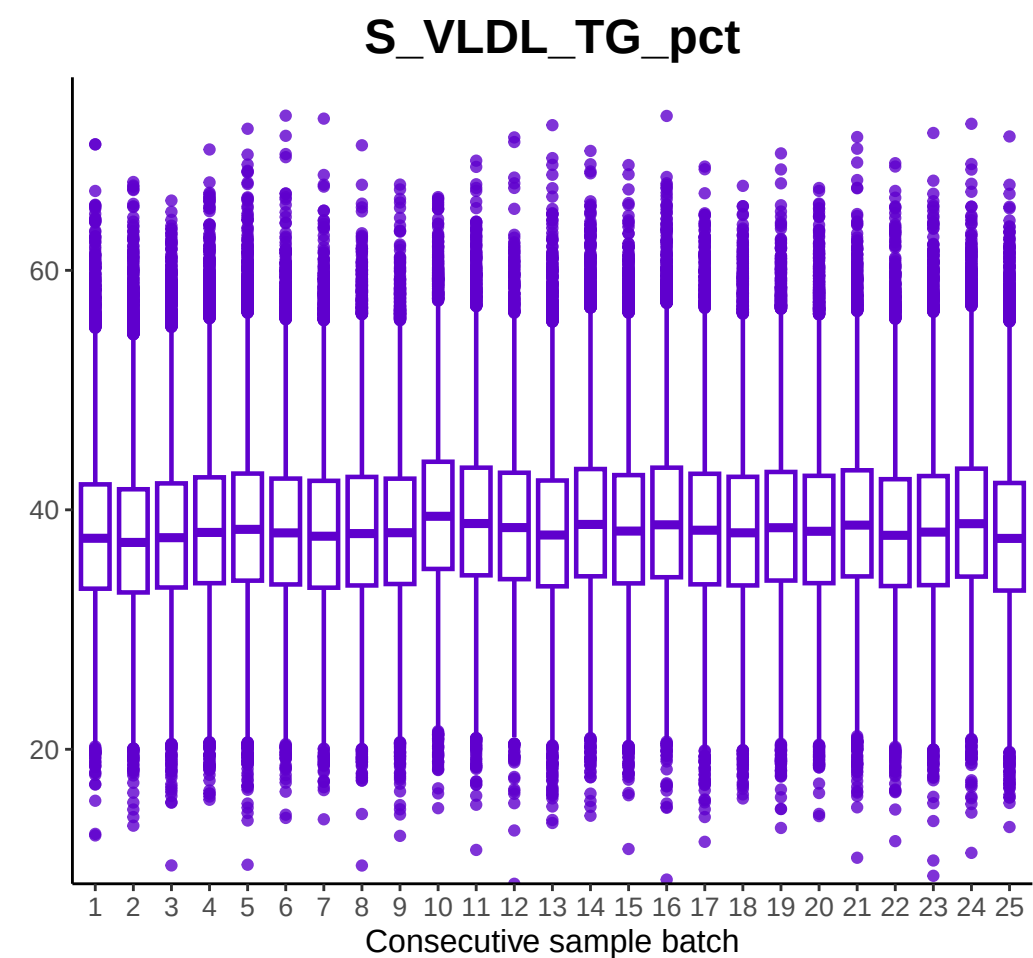
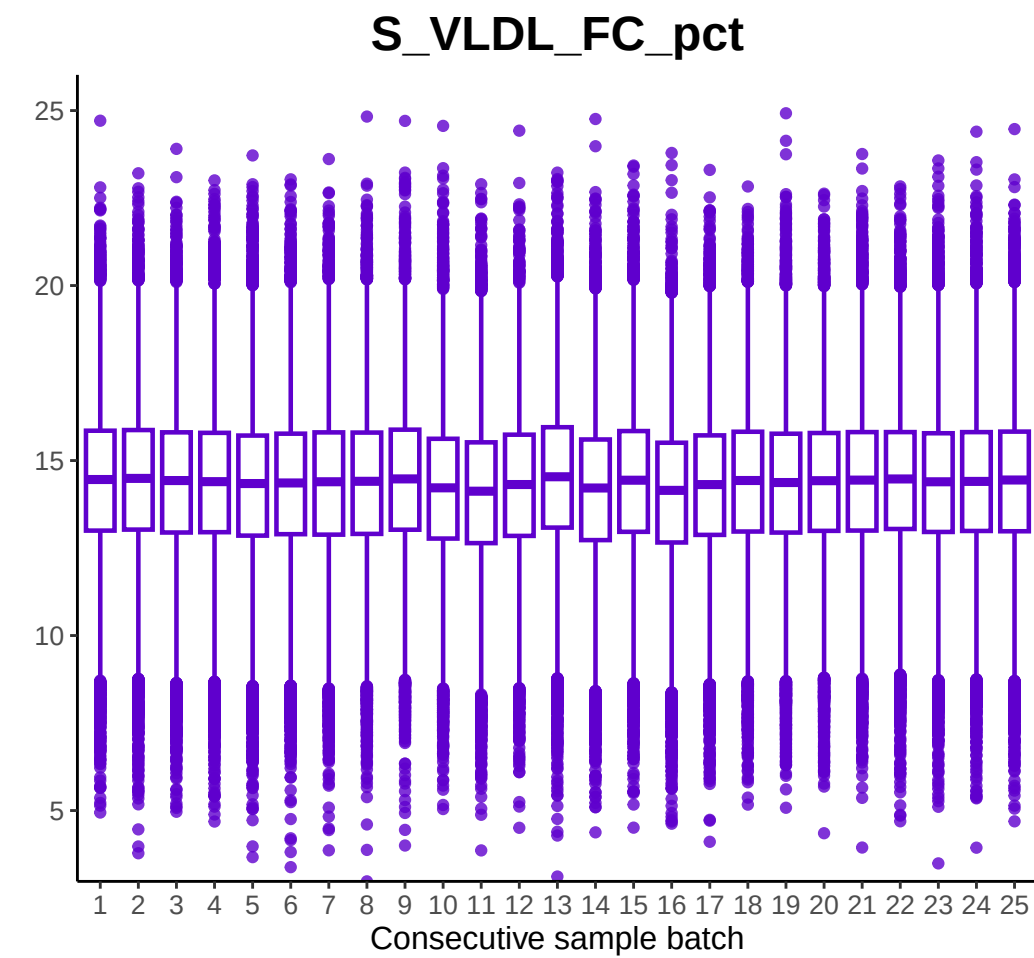
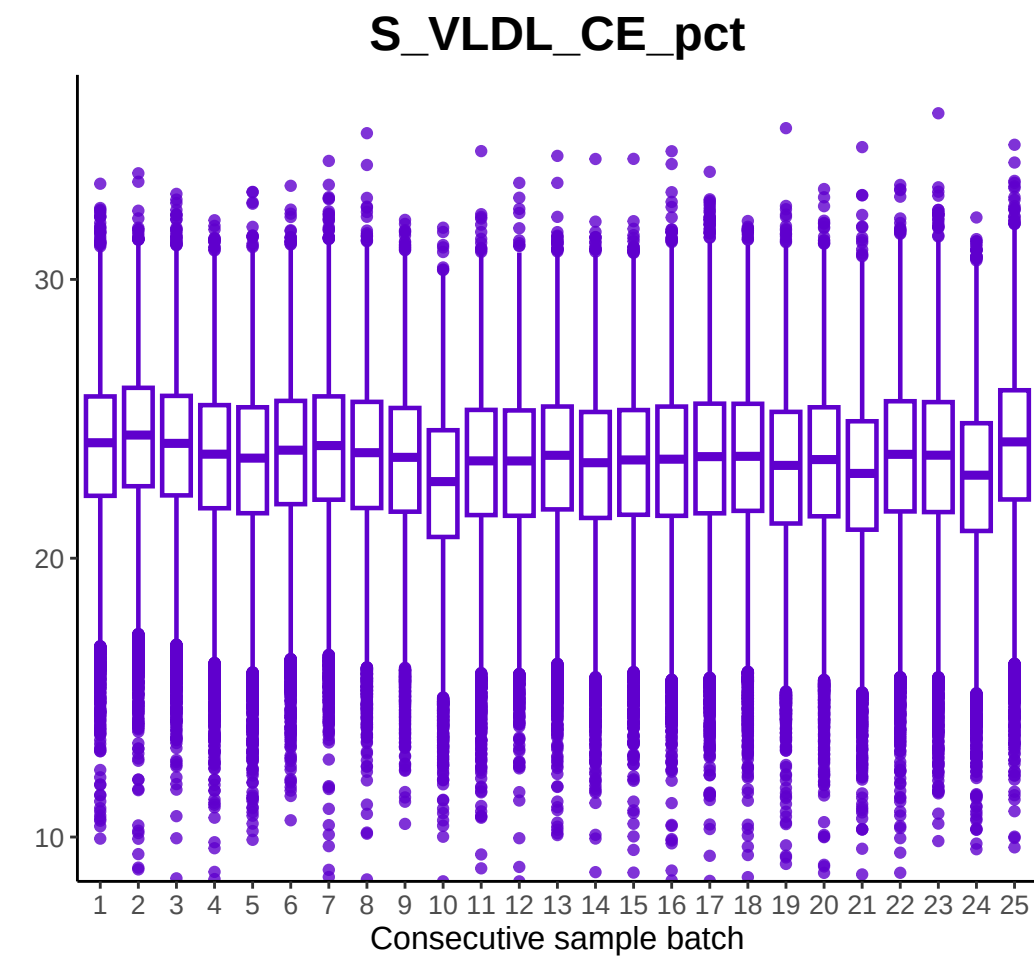
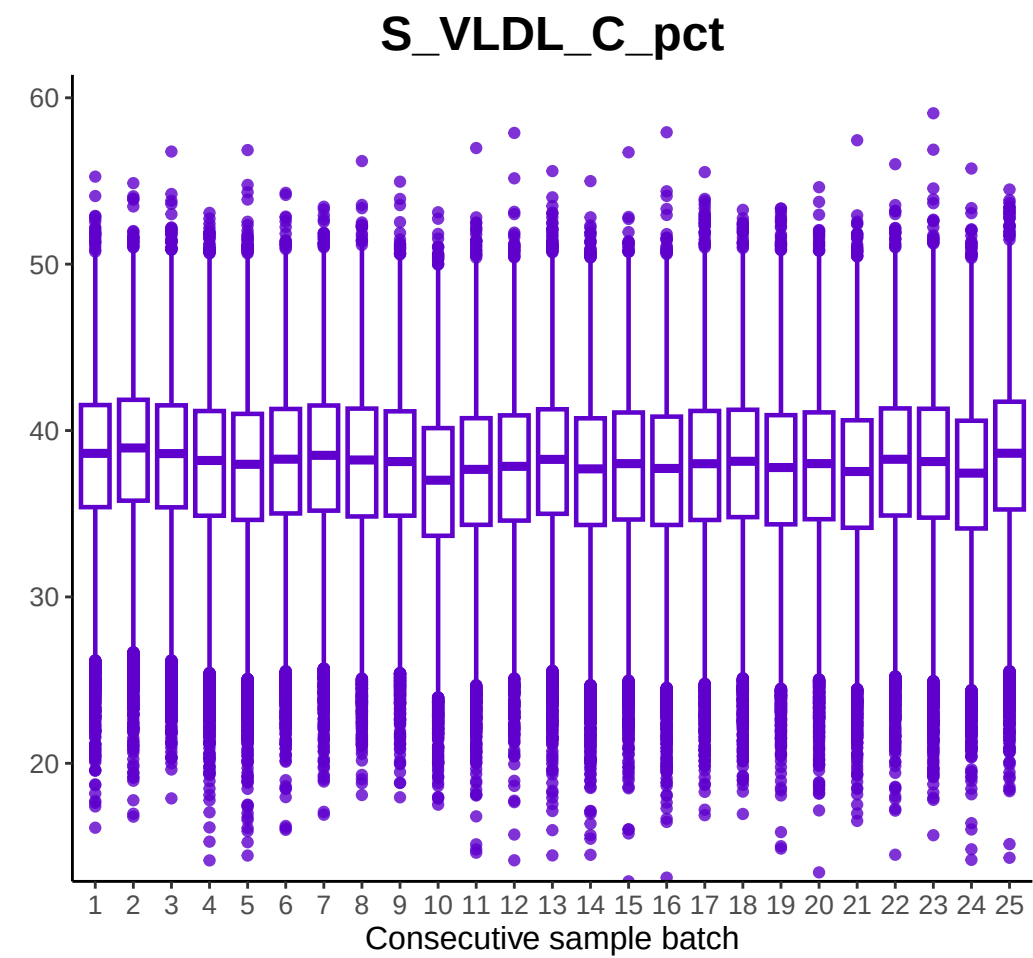
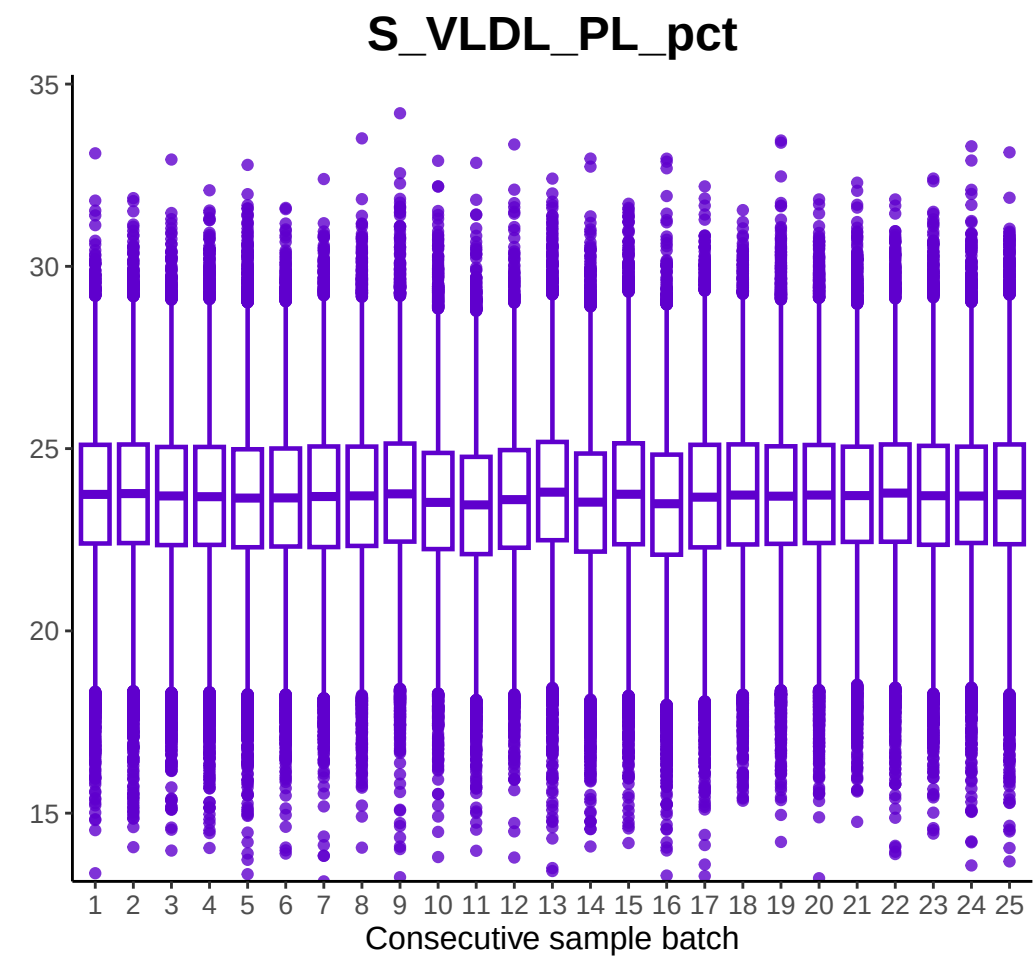
Large VLDL ratios



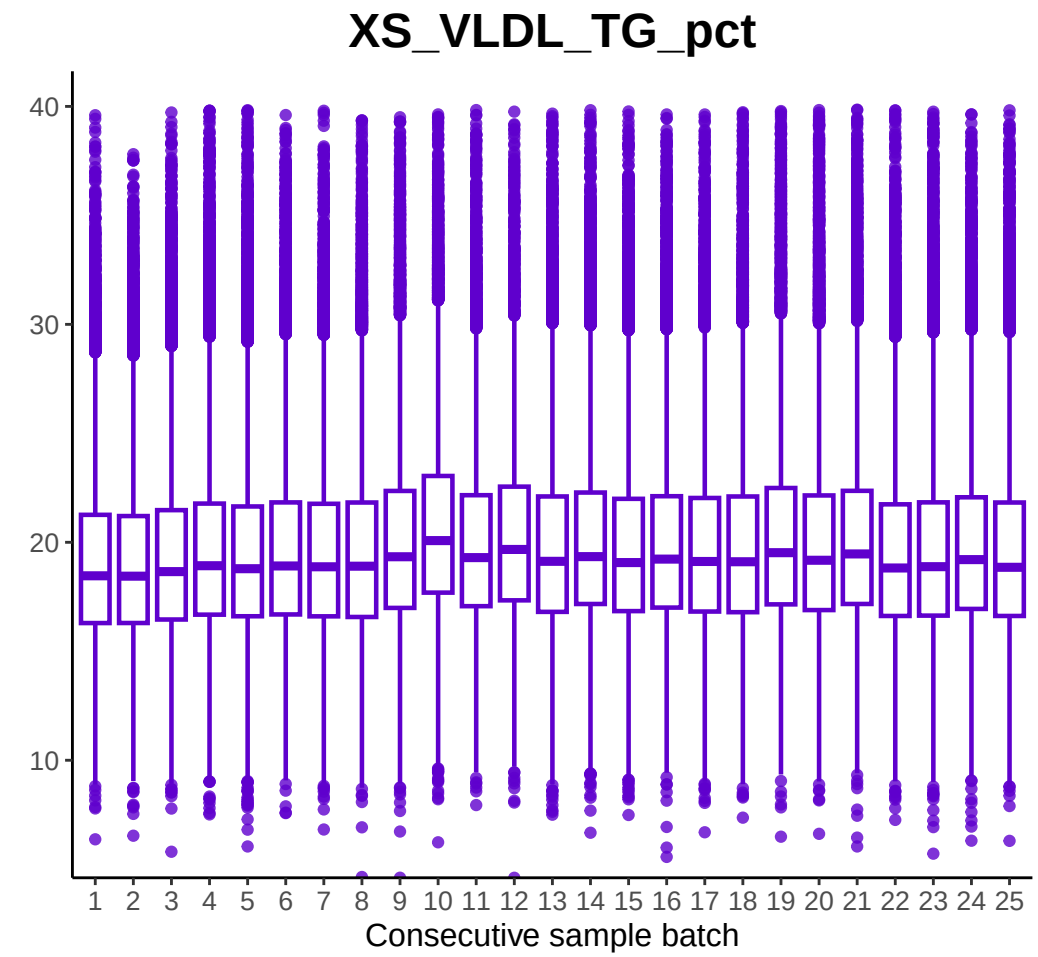
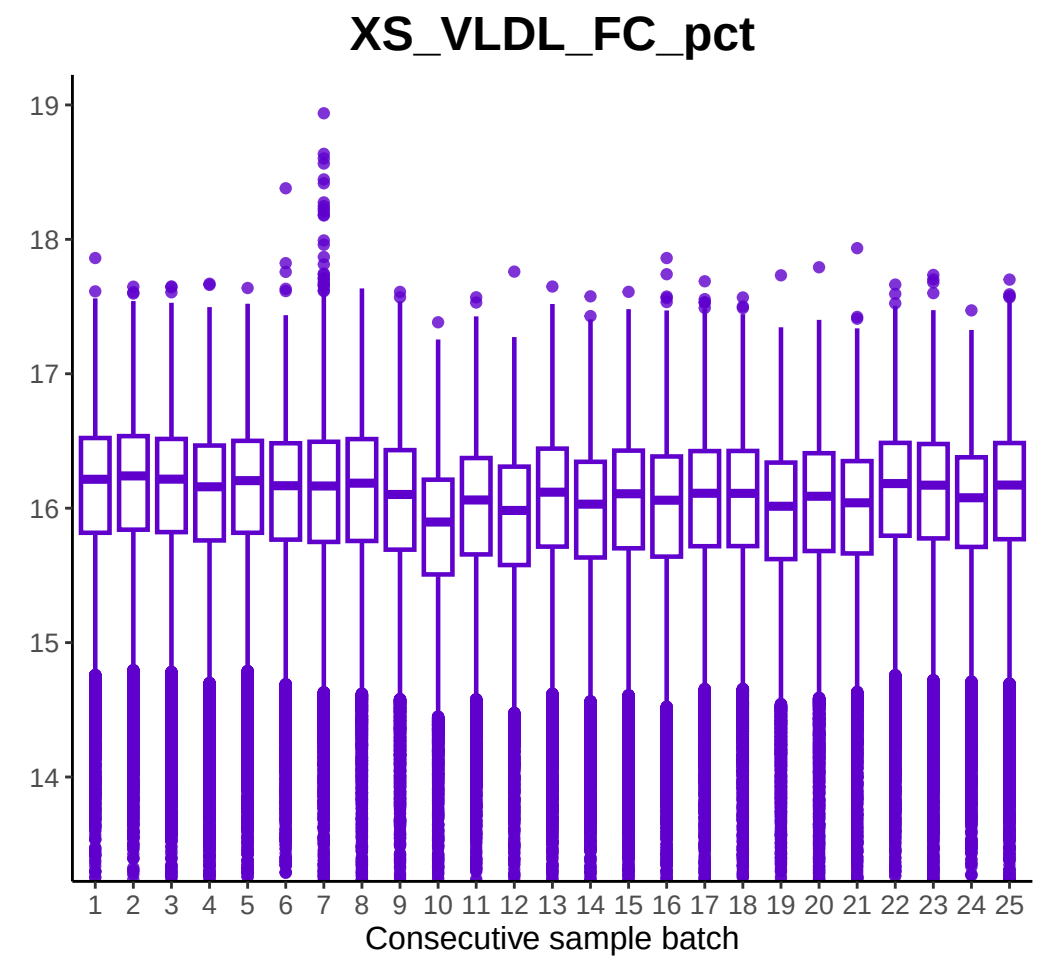
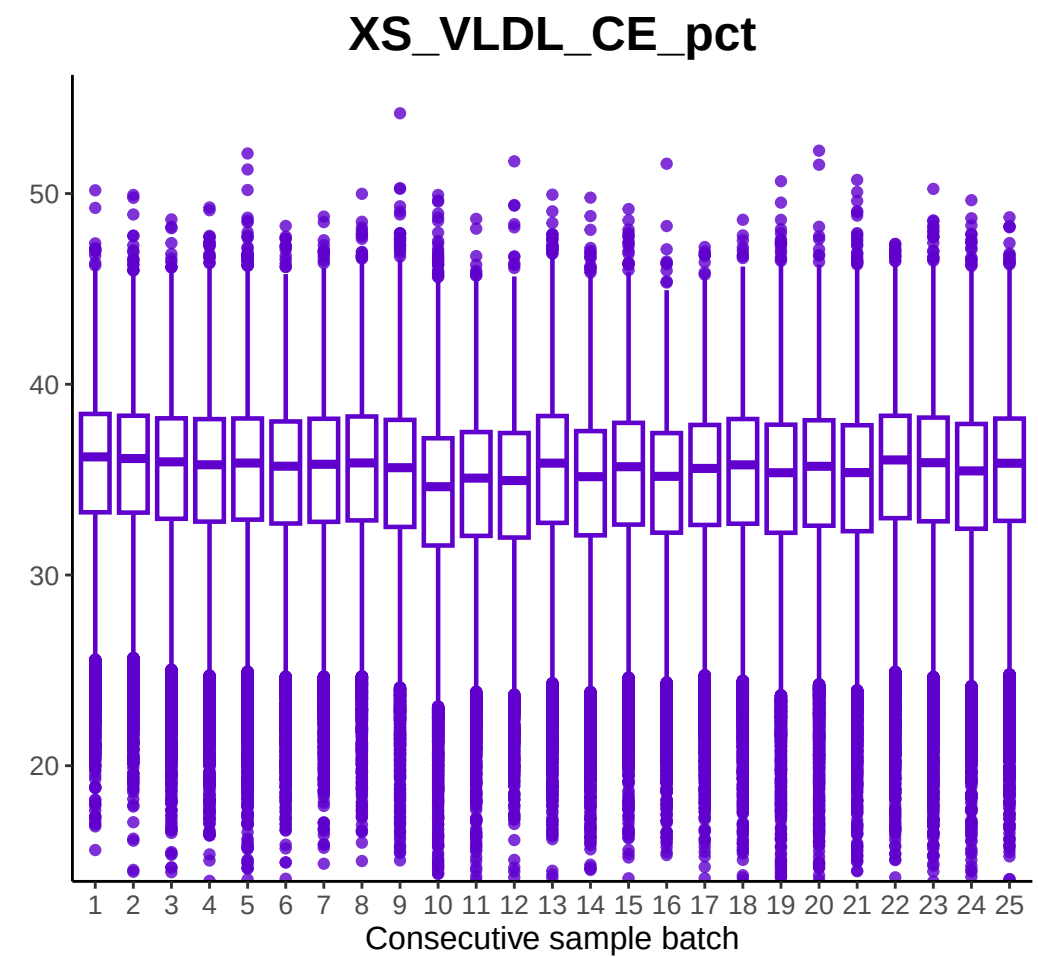
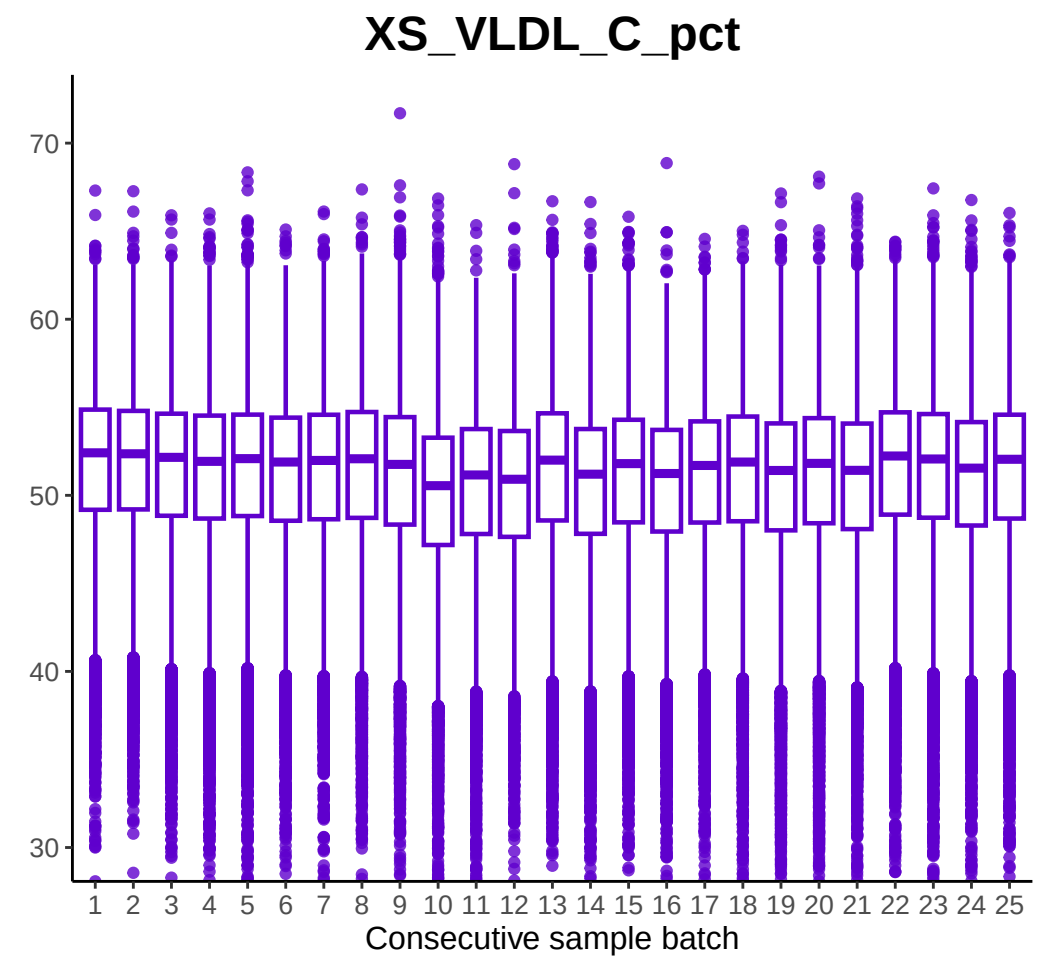
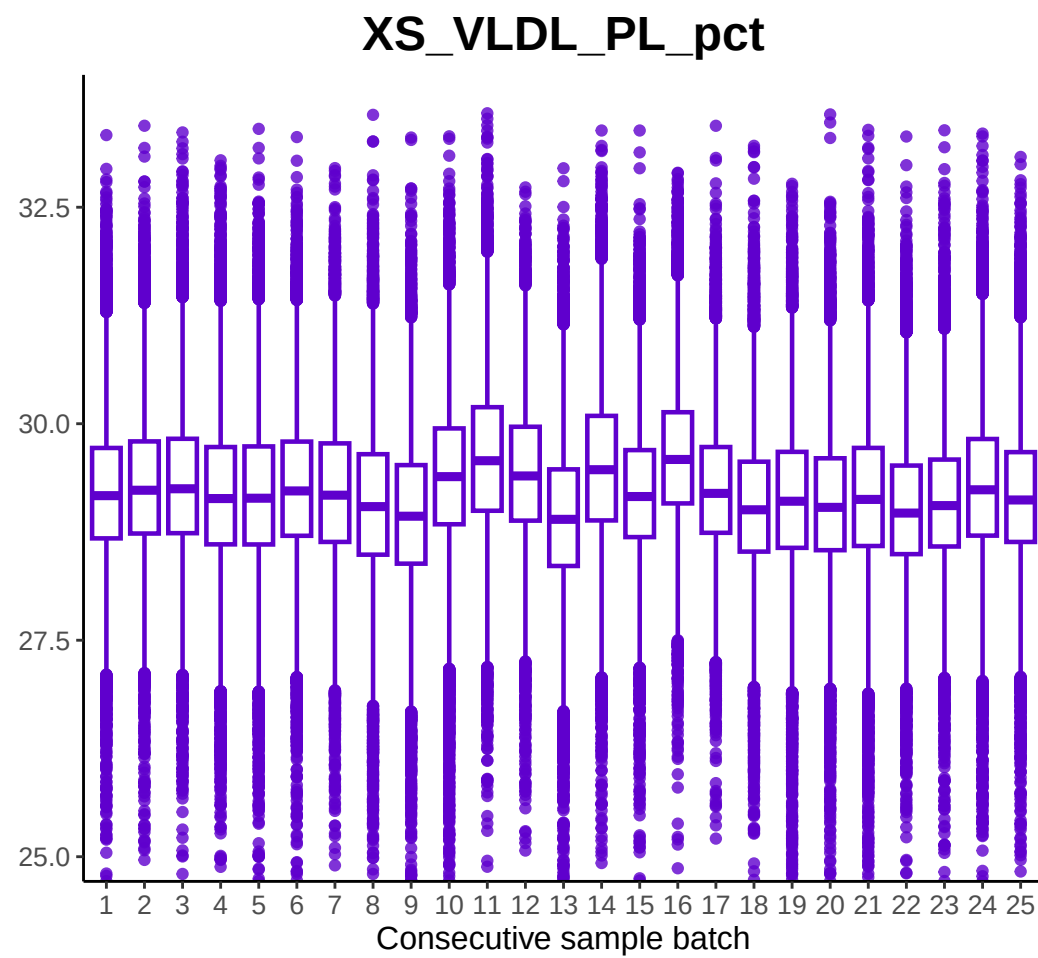
Medium VLDL ratios



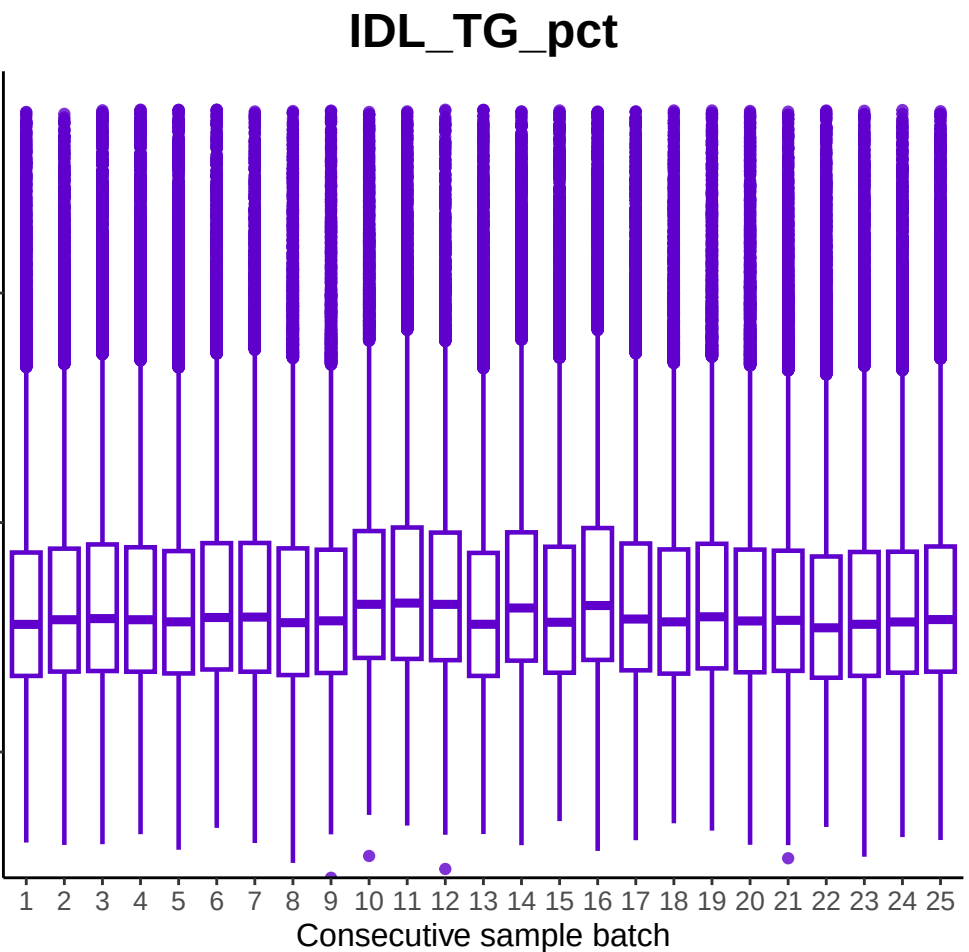
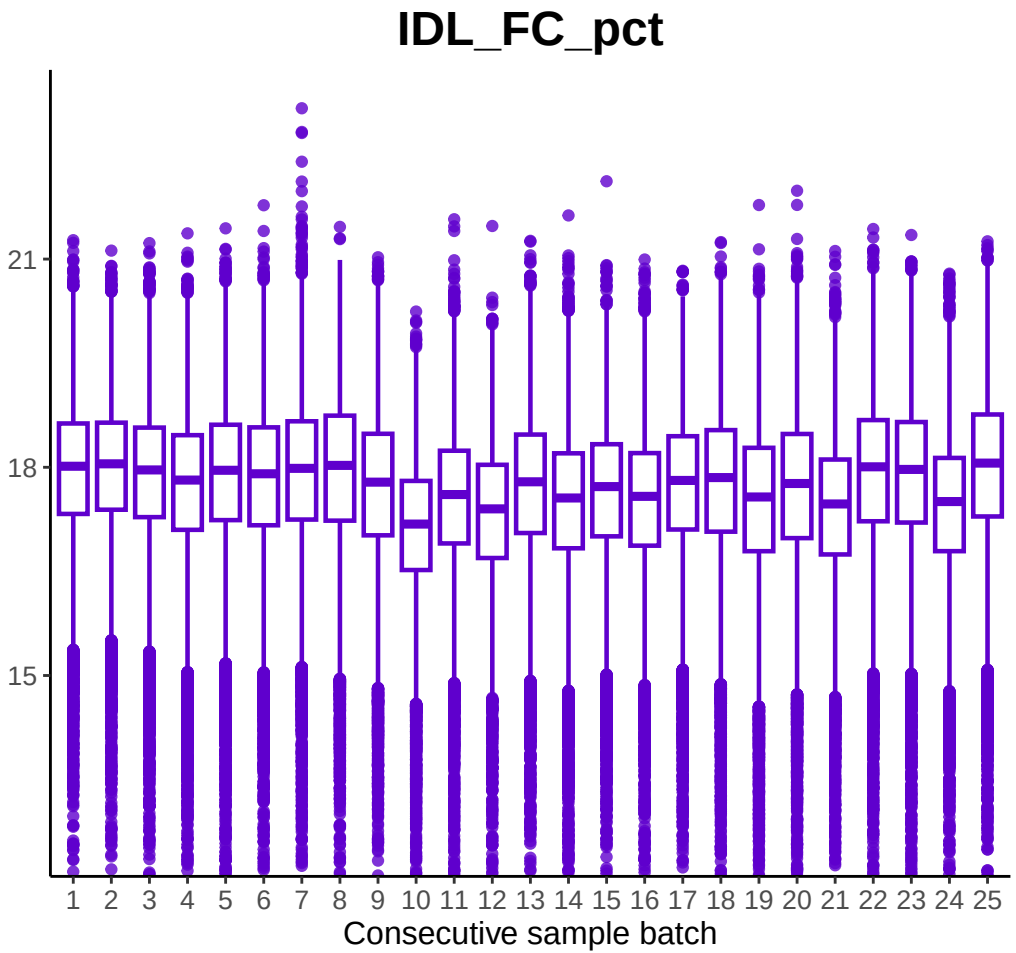
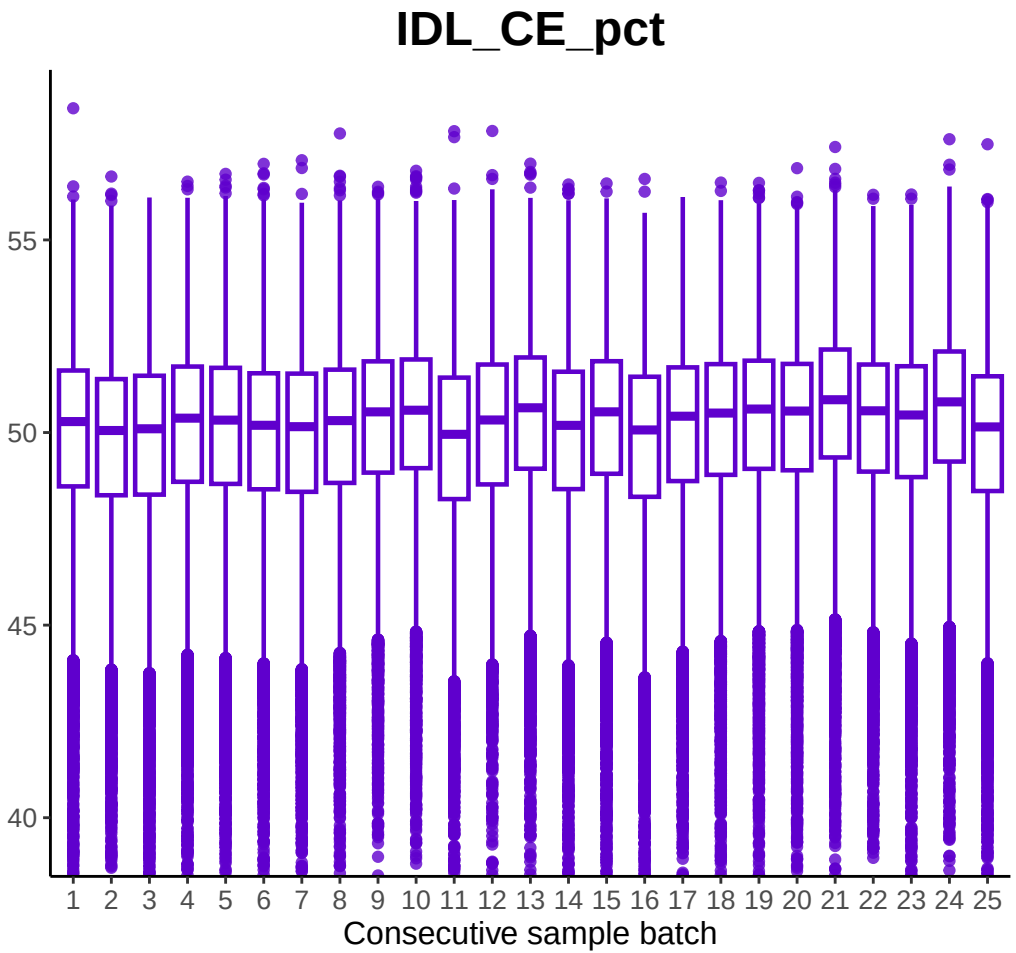
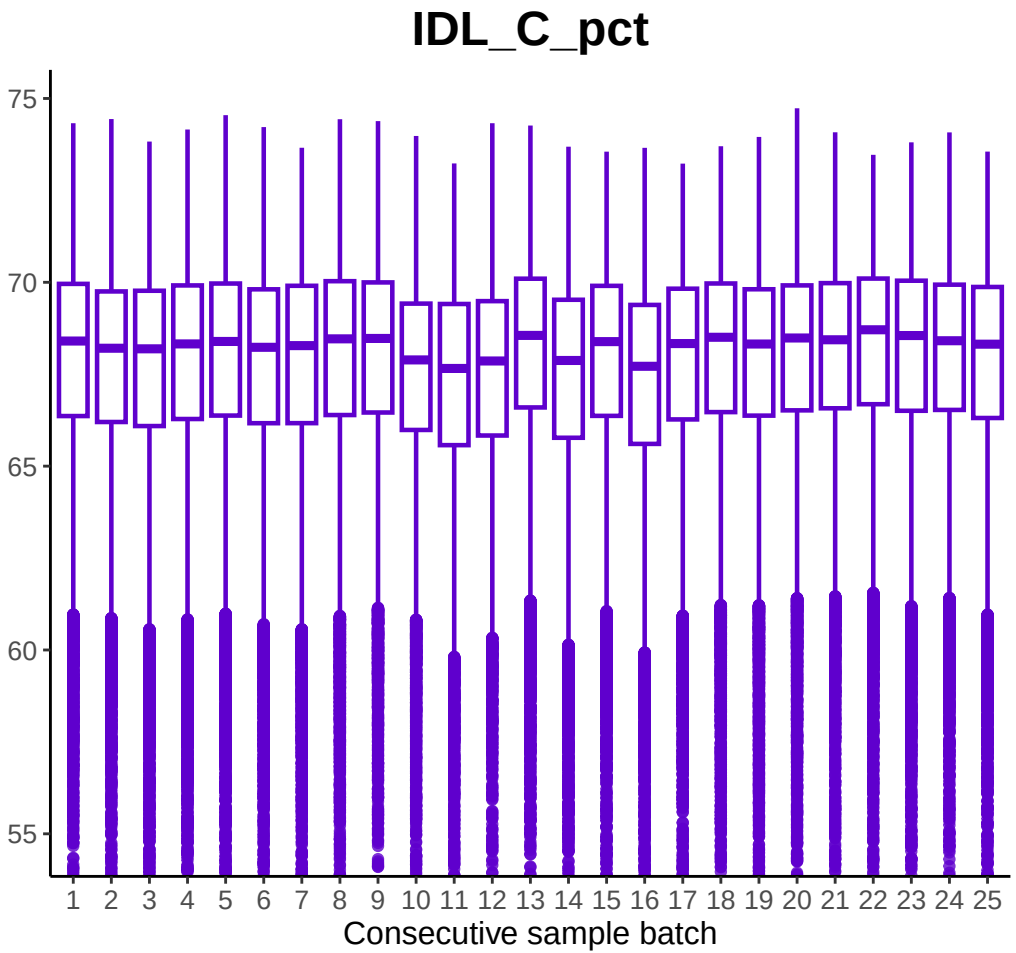
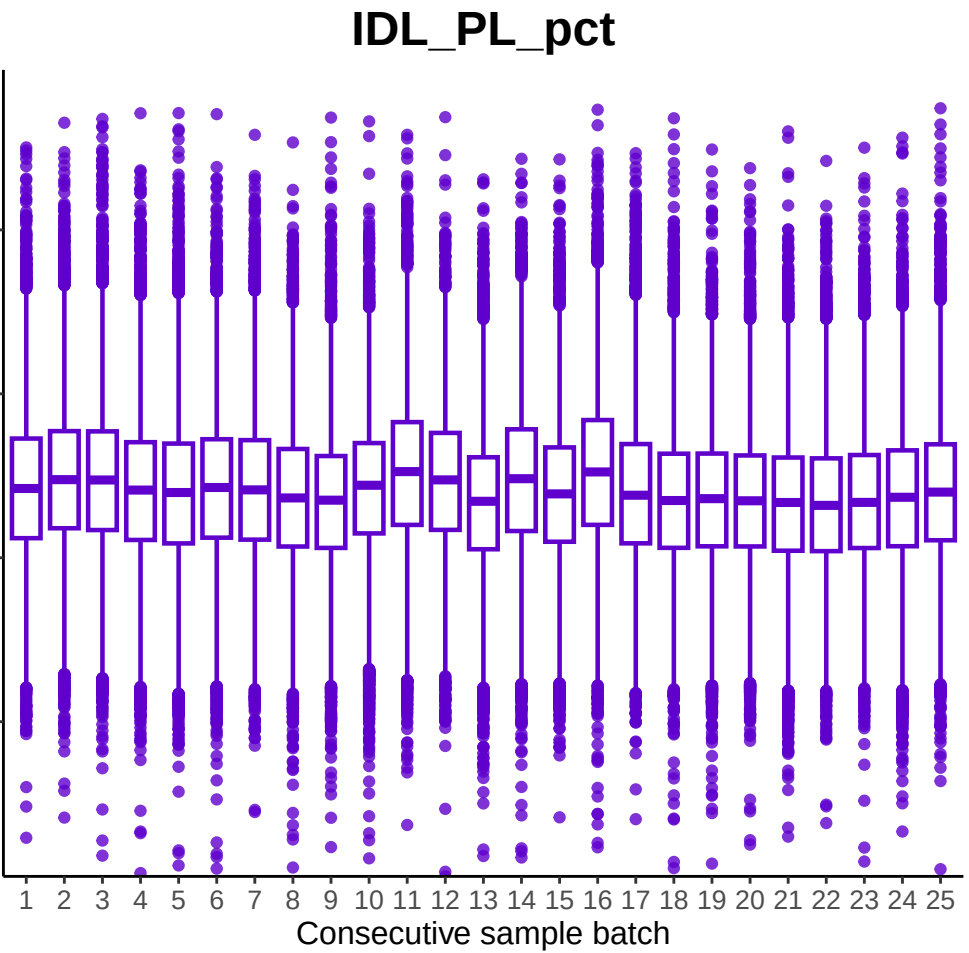
Small VLDL ratios



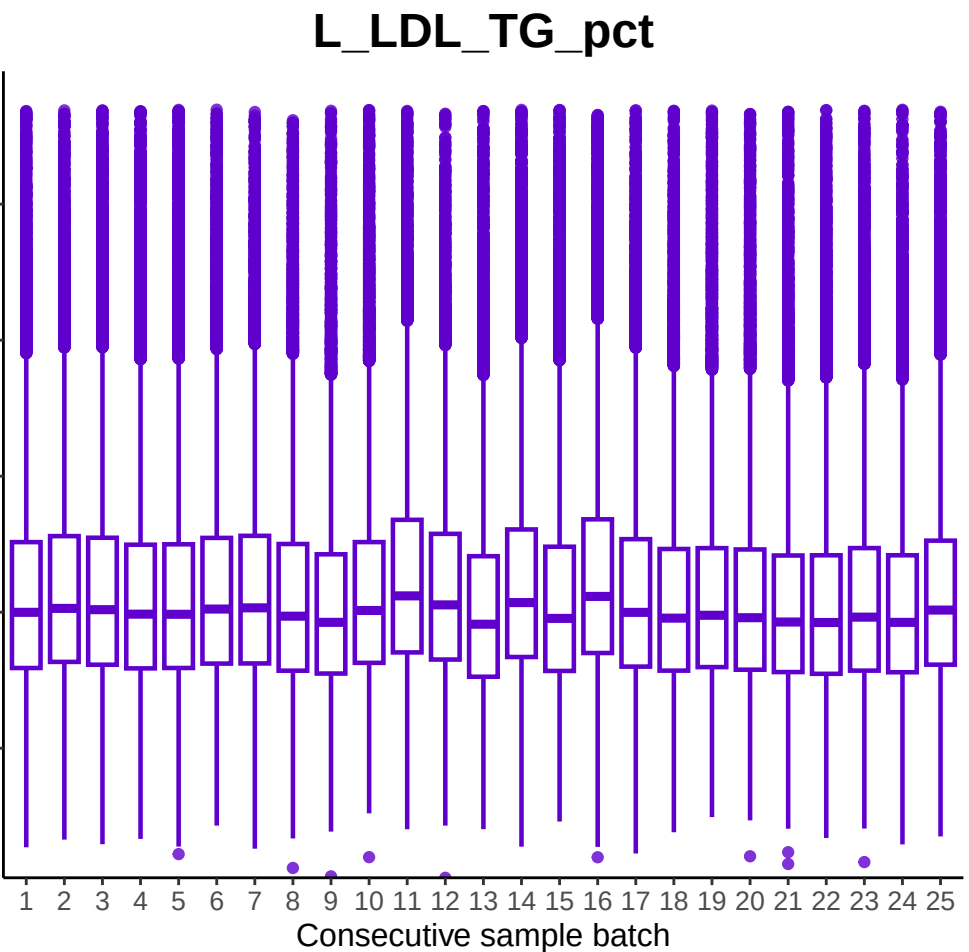
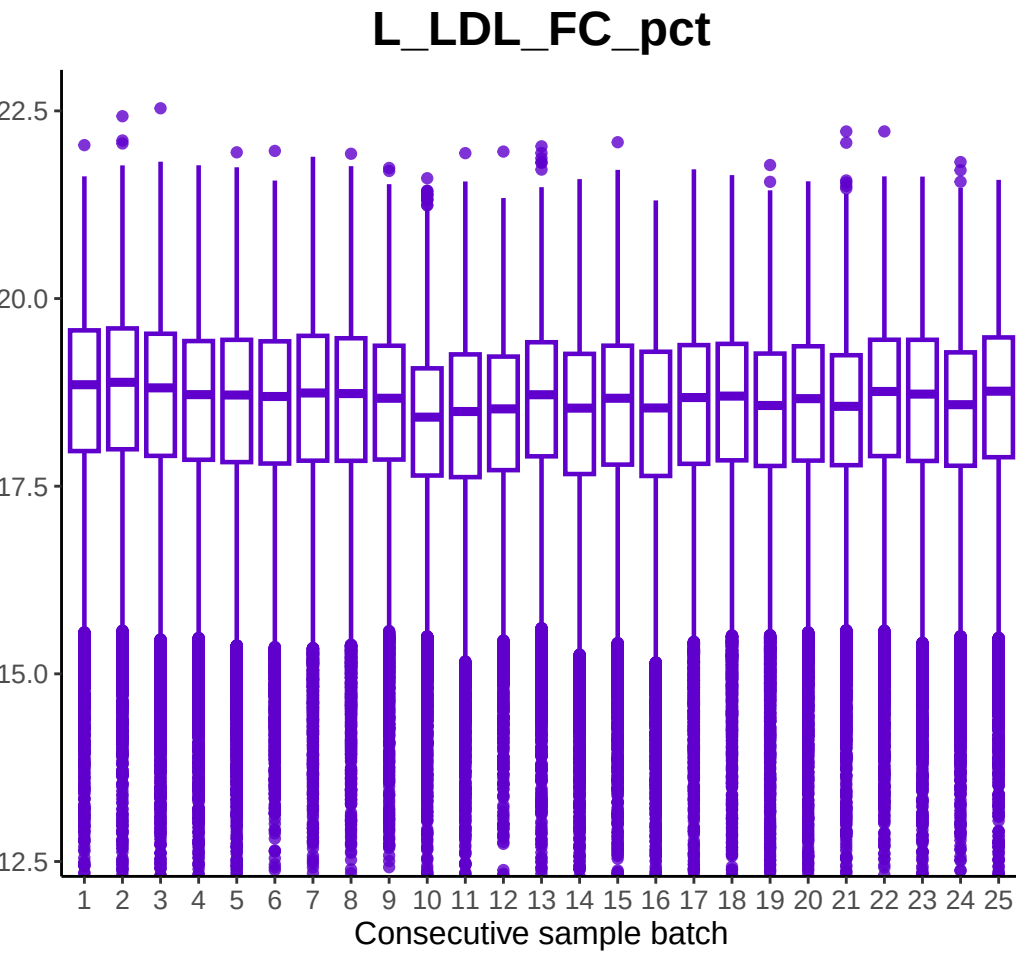
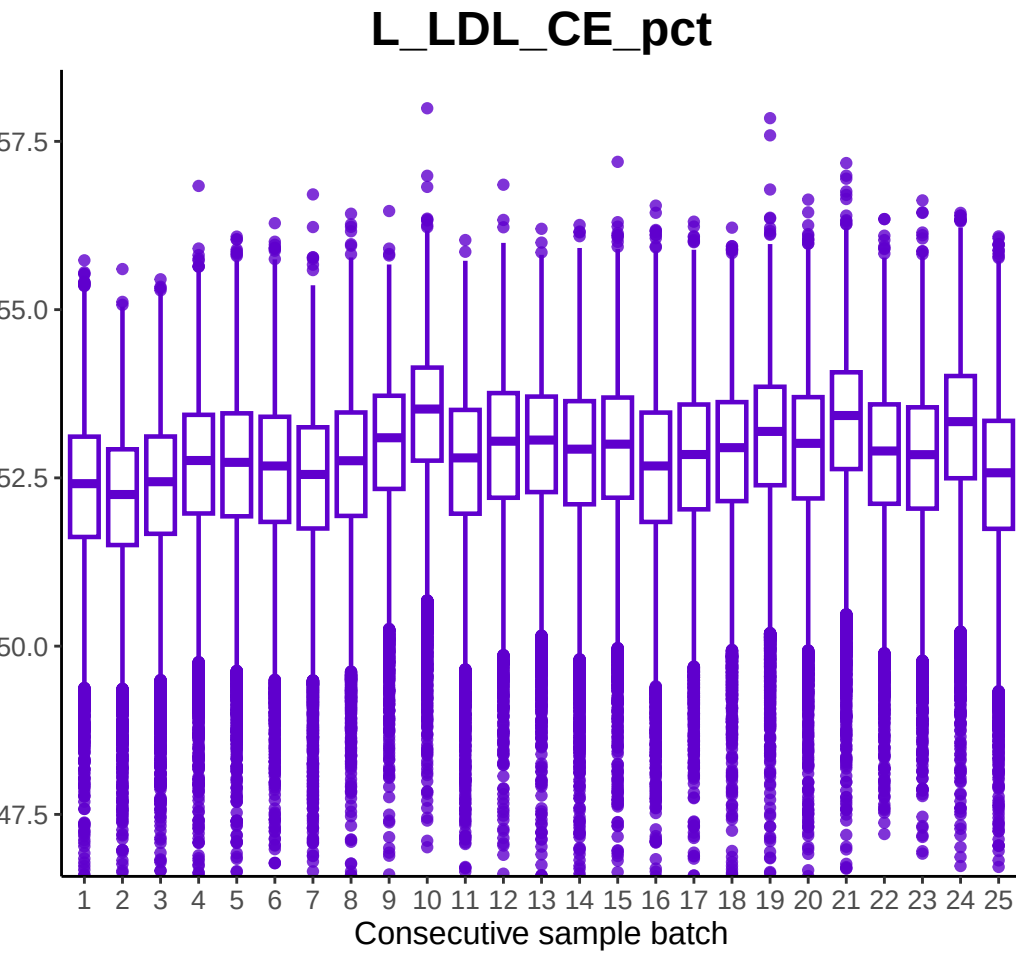
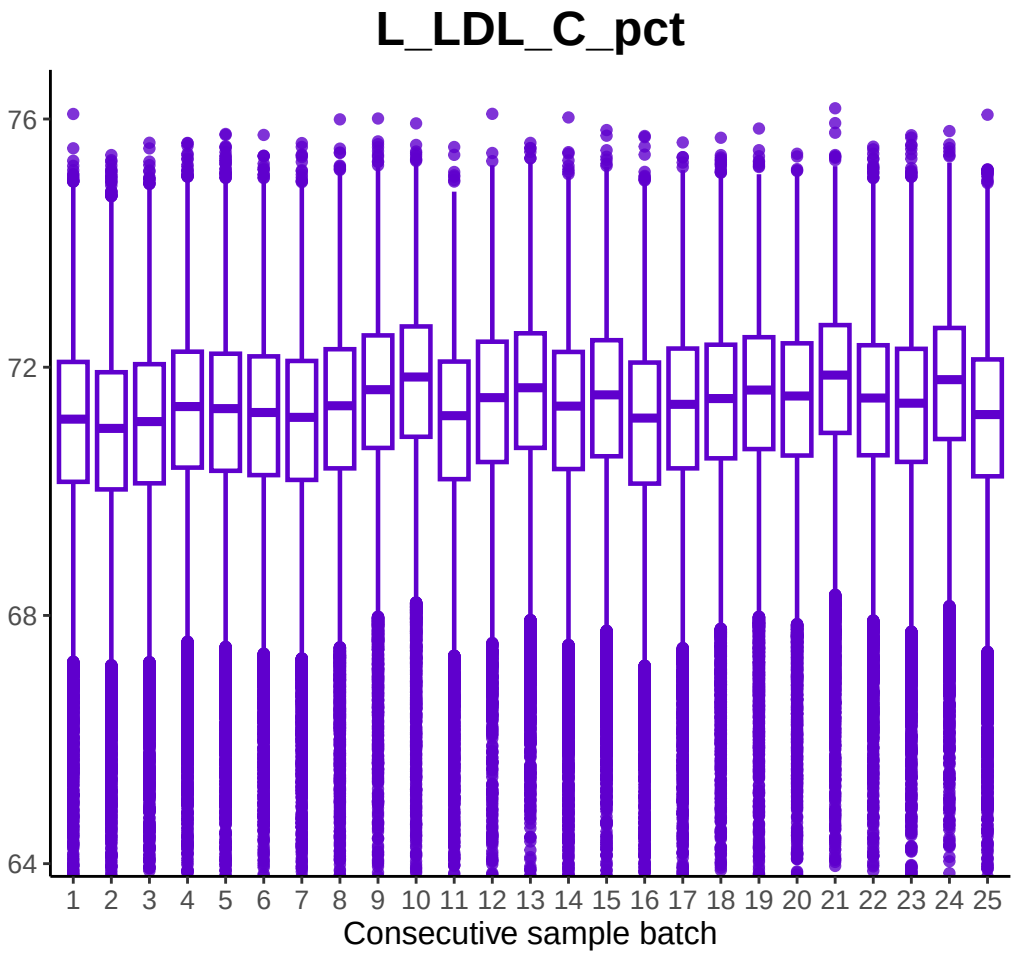
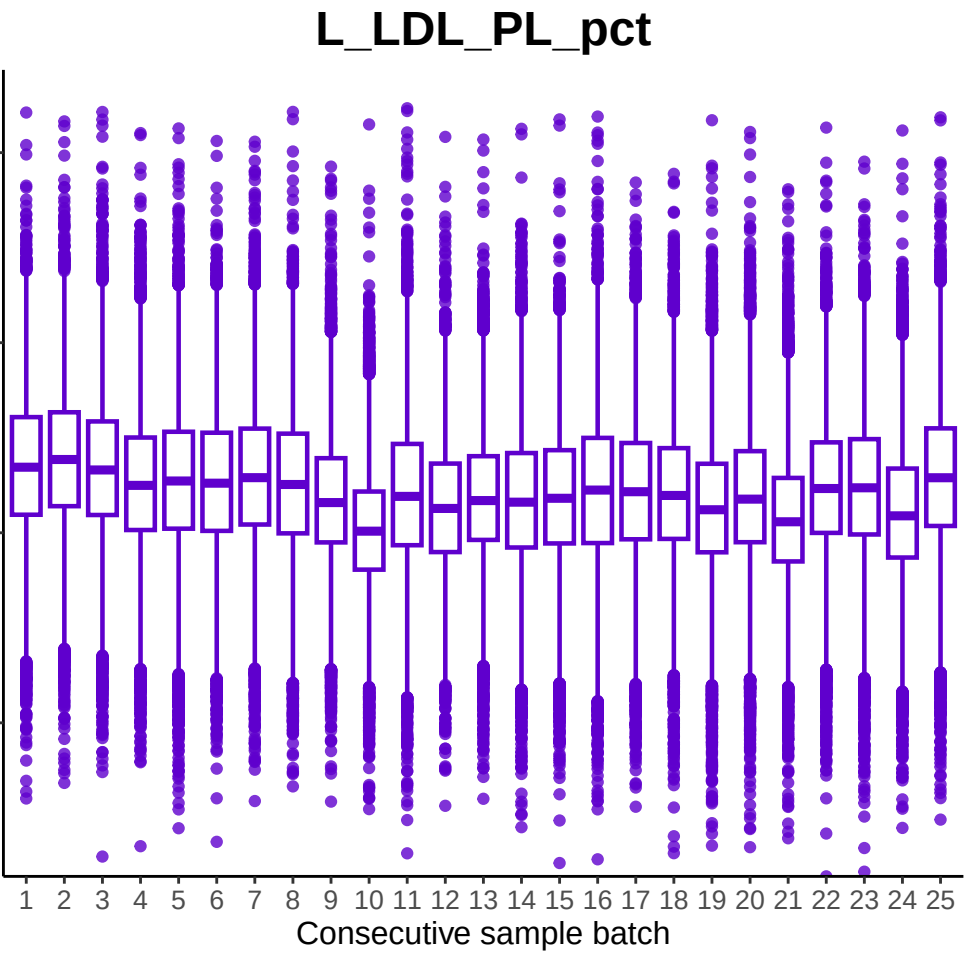
Very small VLDL ratios



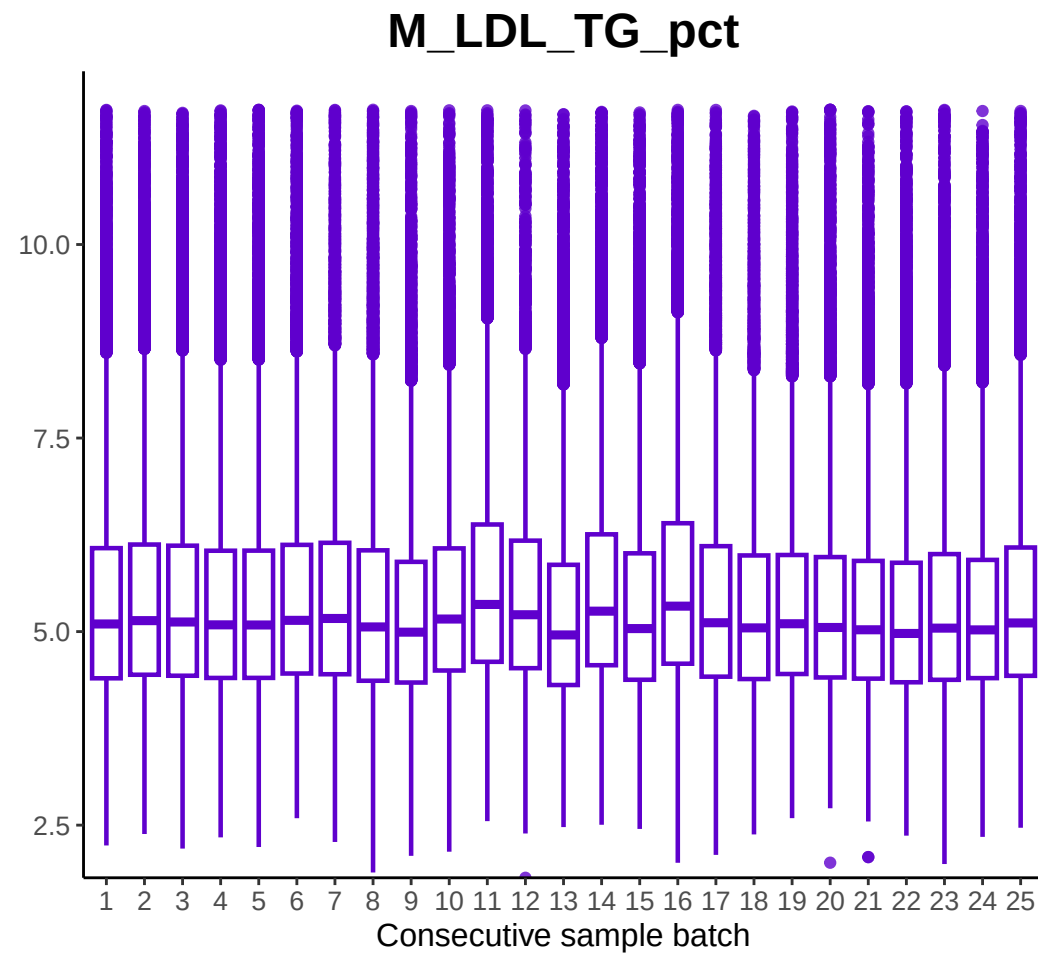
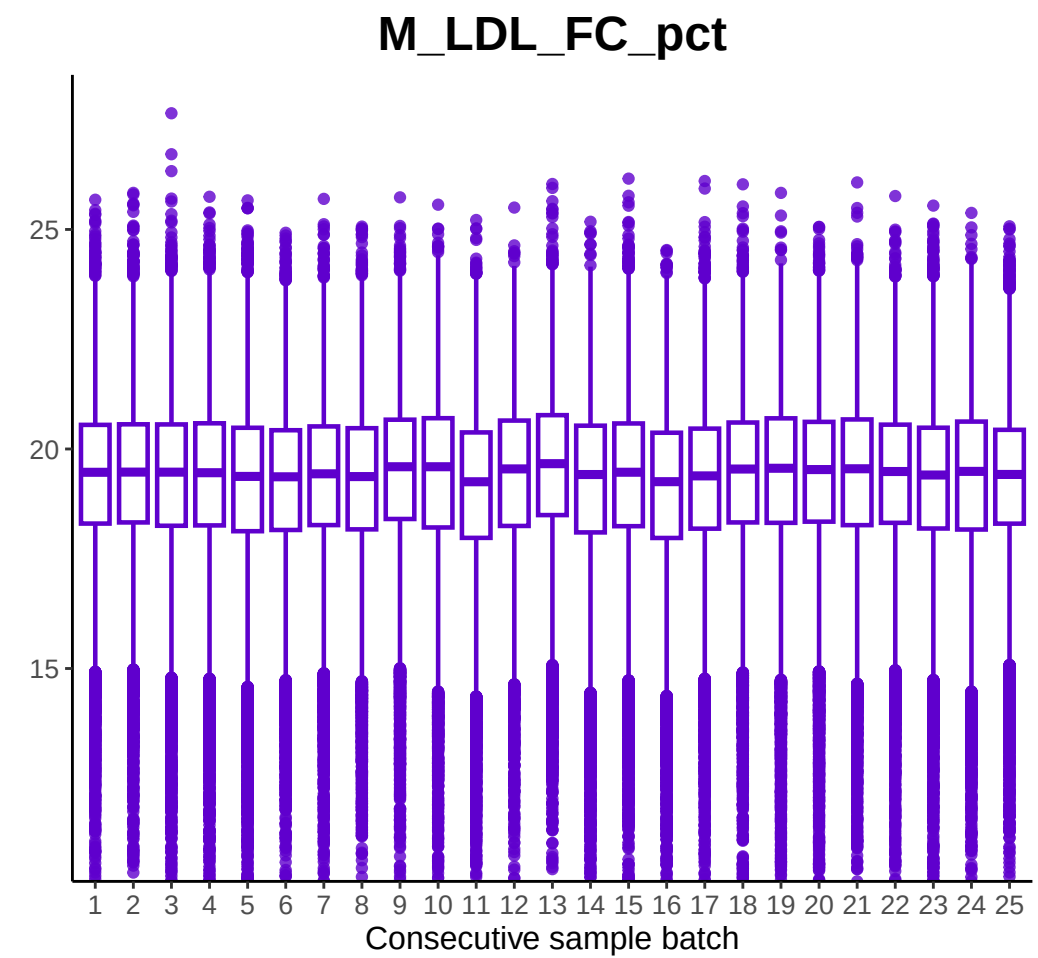
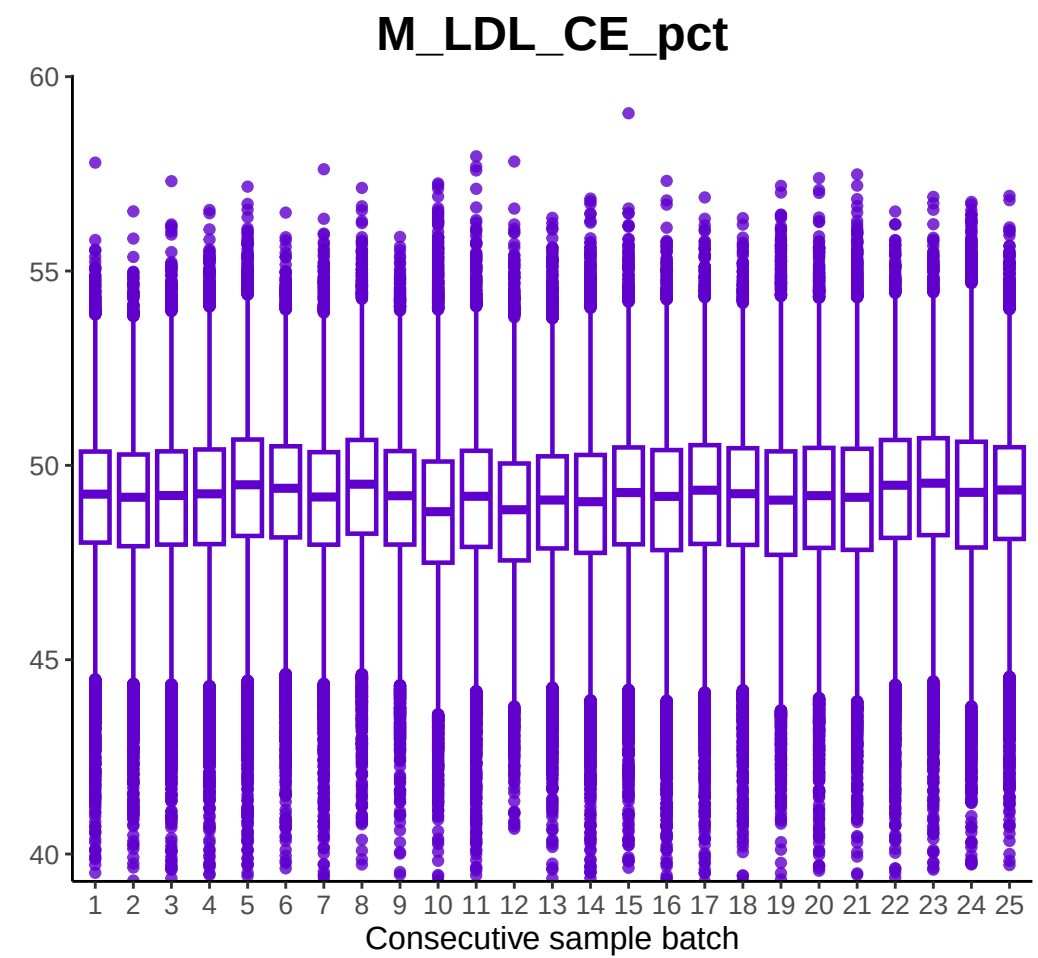
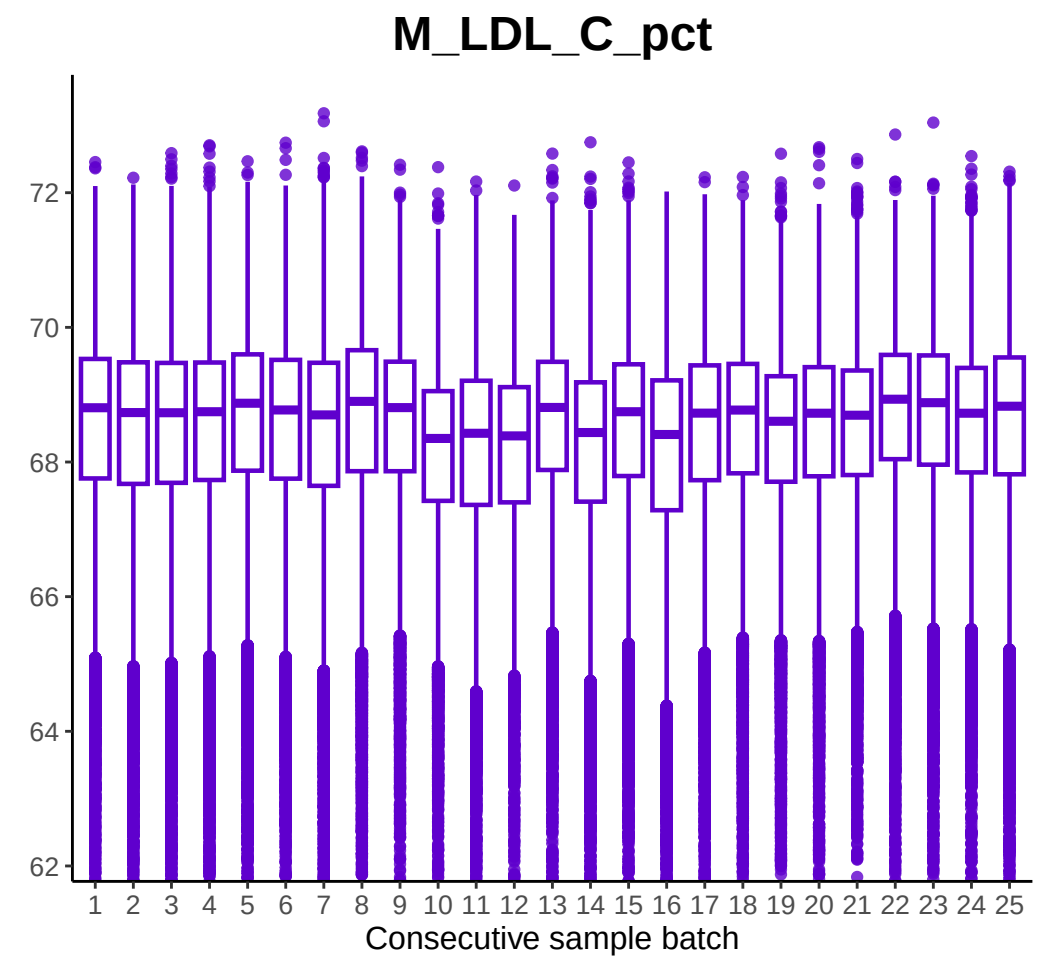
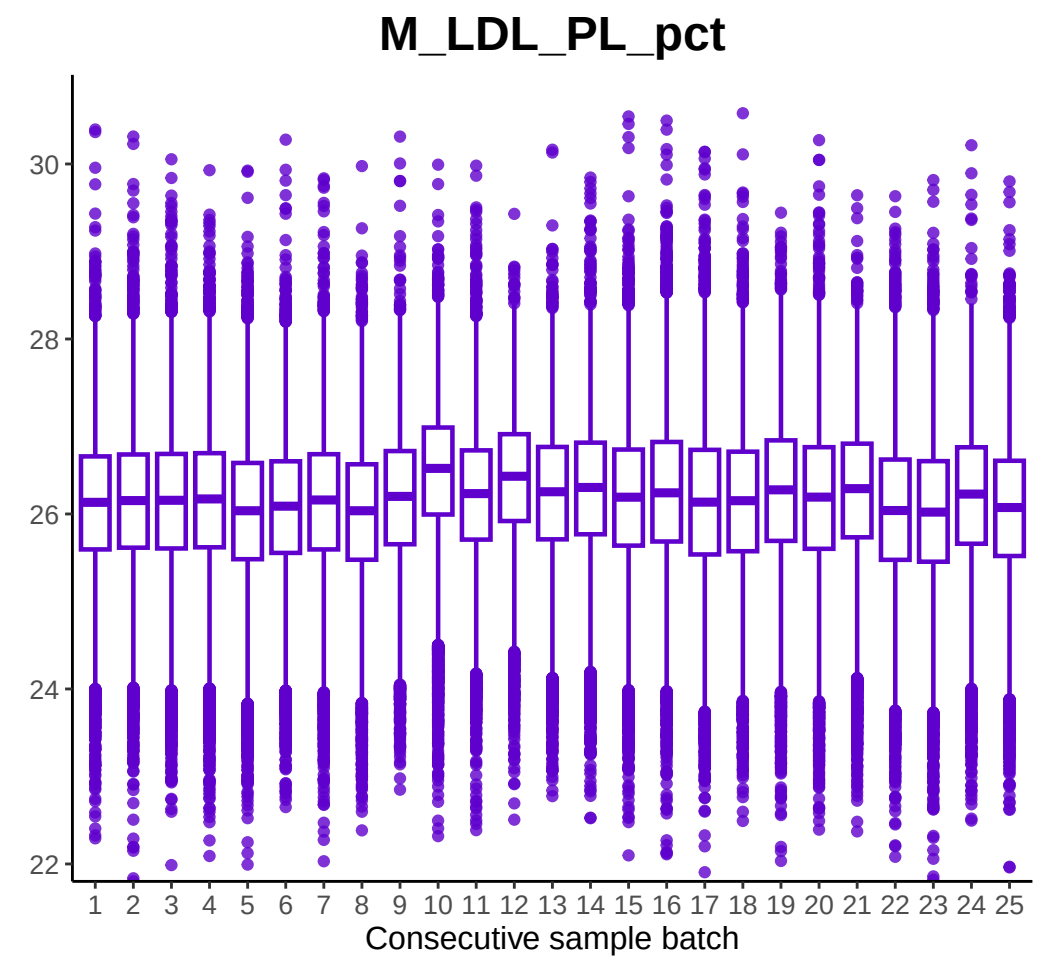
IDL ratios



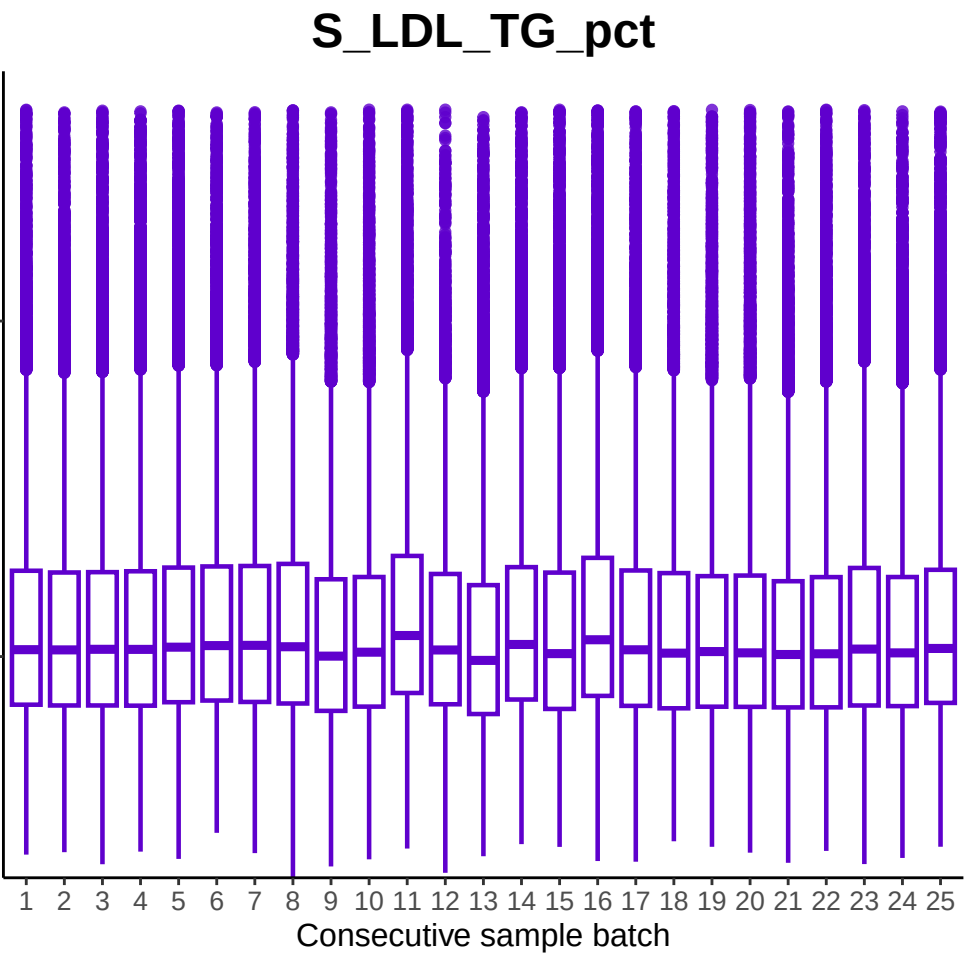
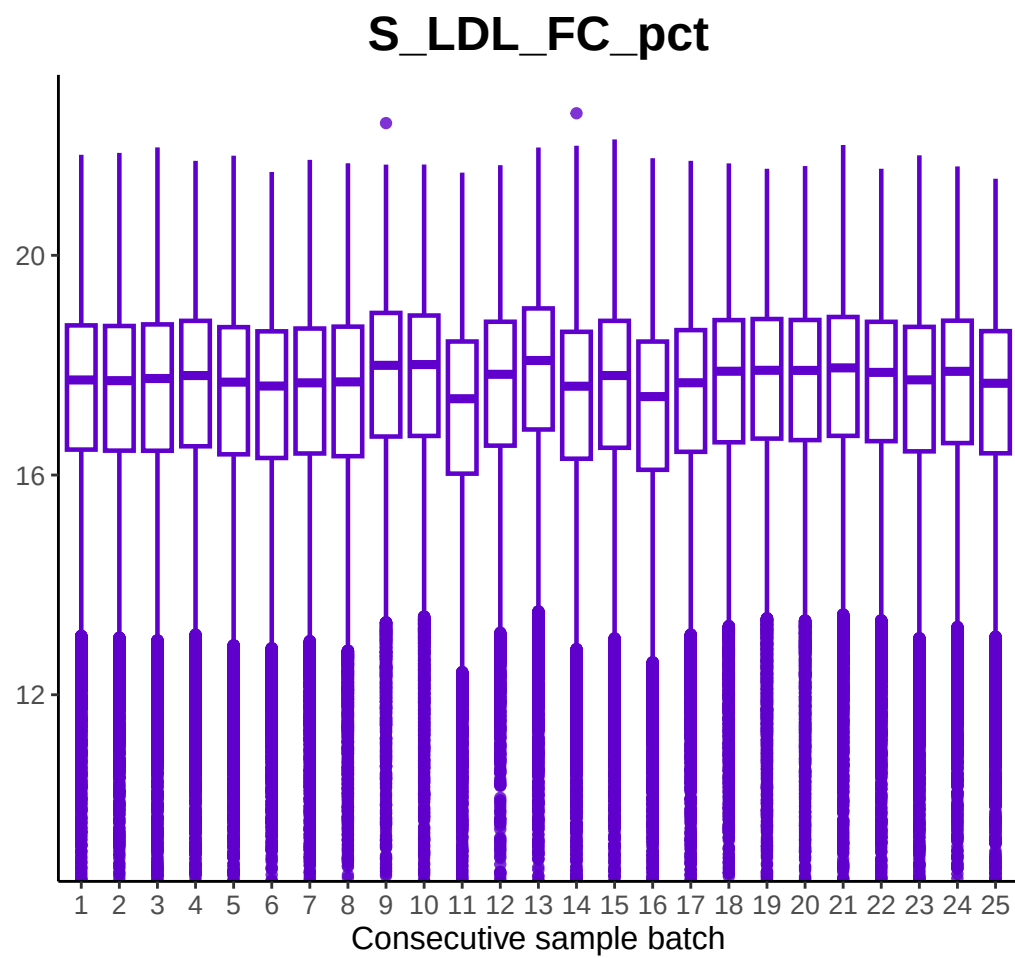
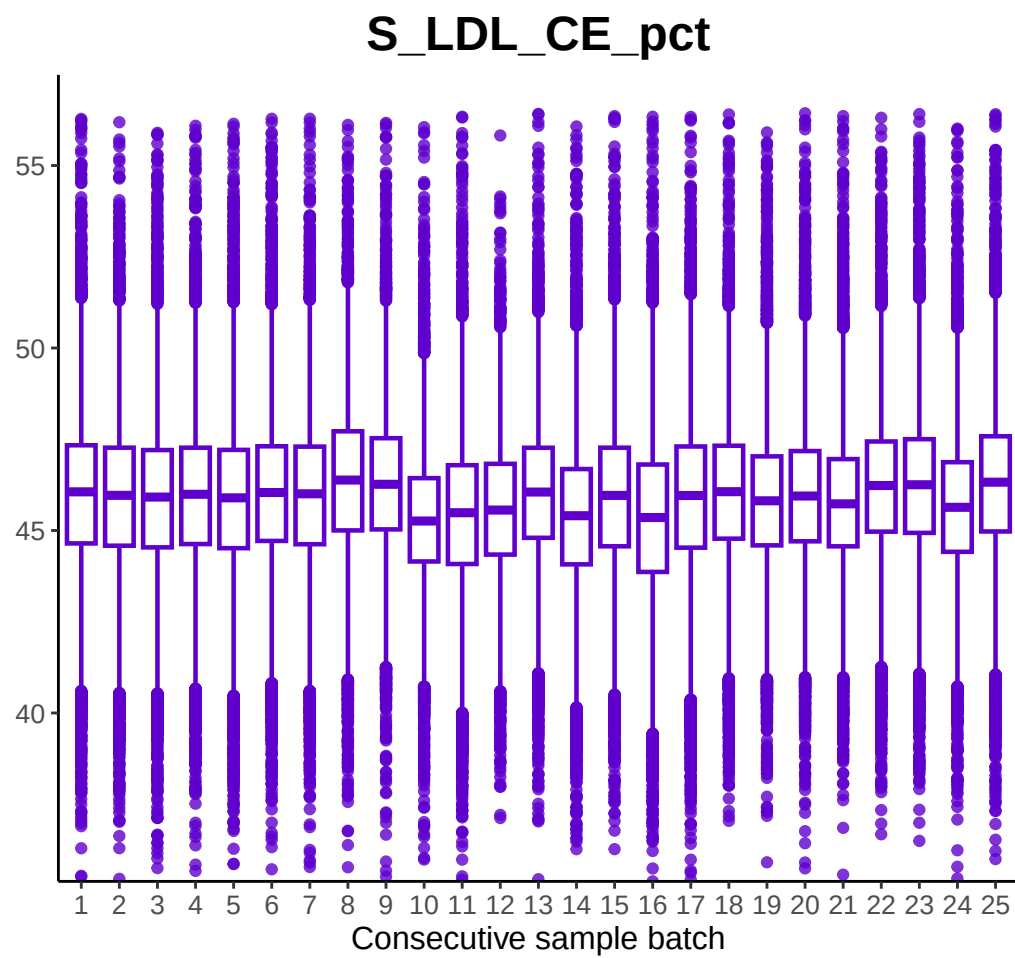
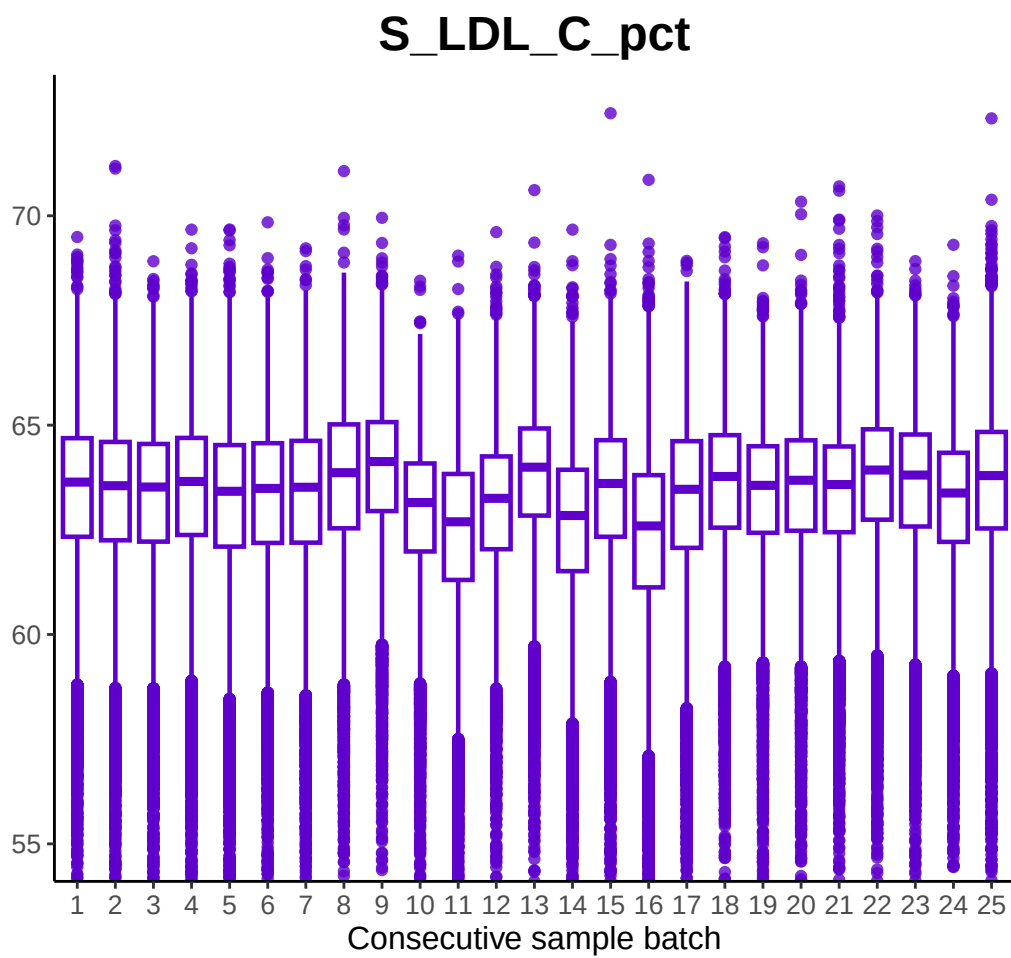
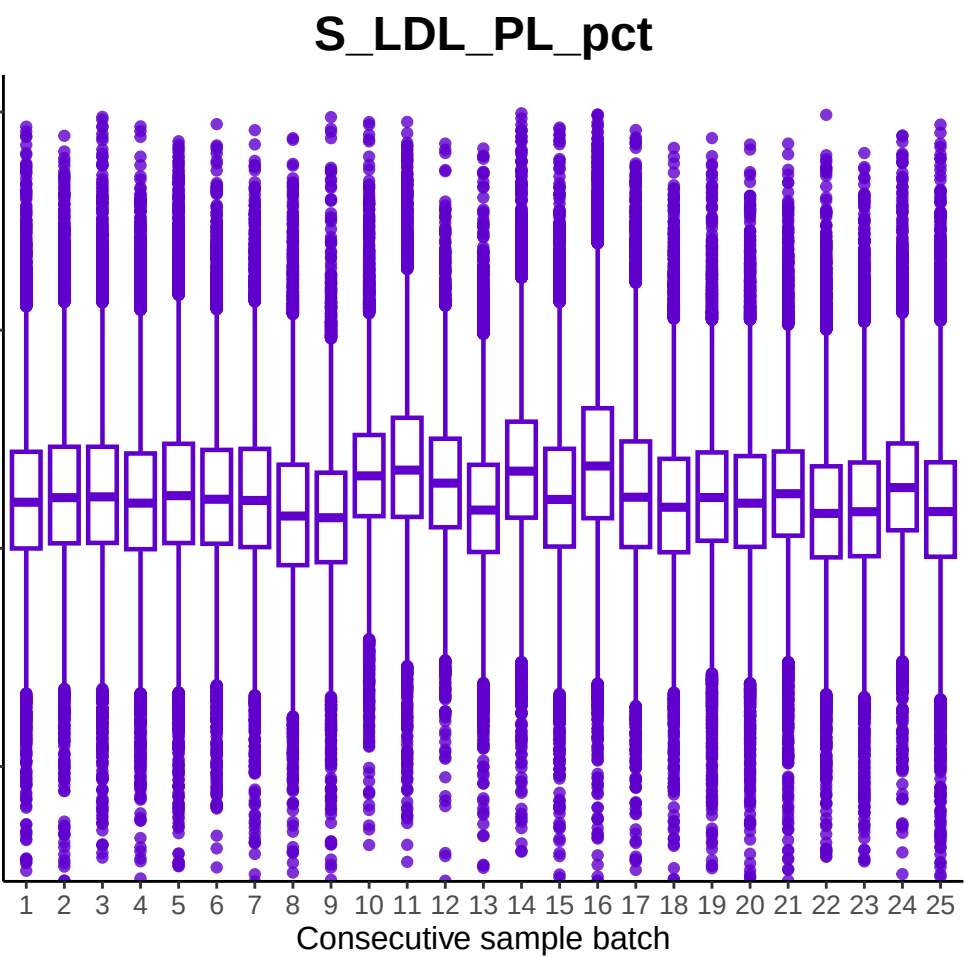
Large LDL ratios



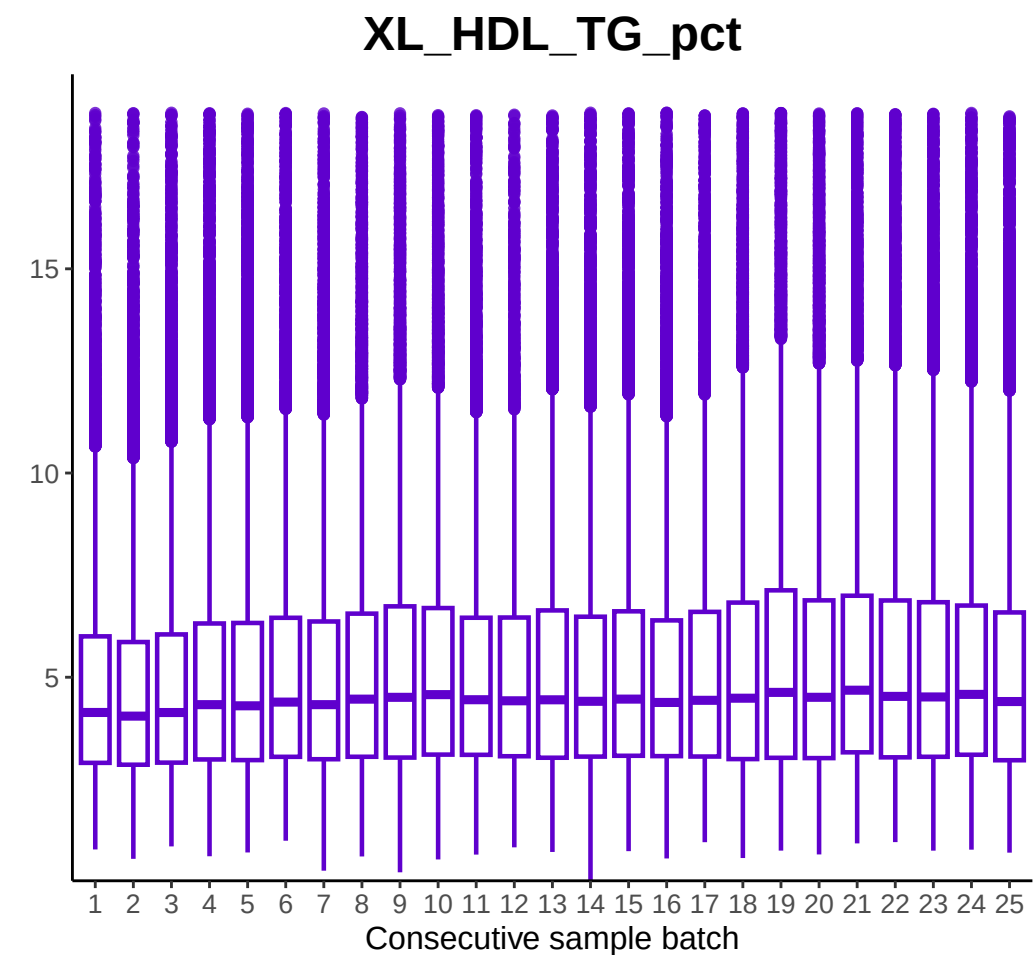
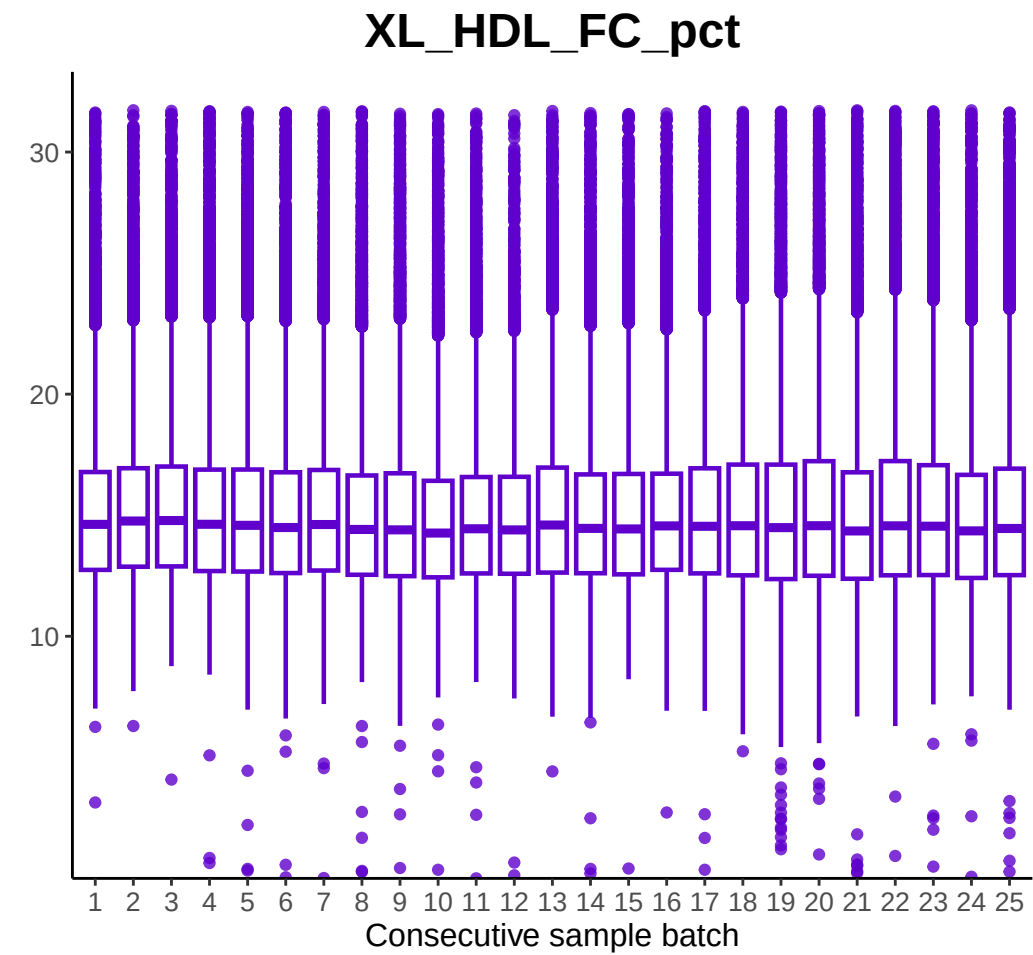
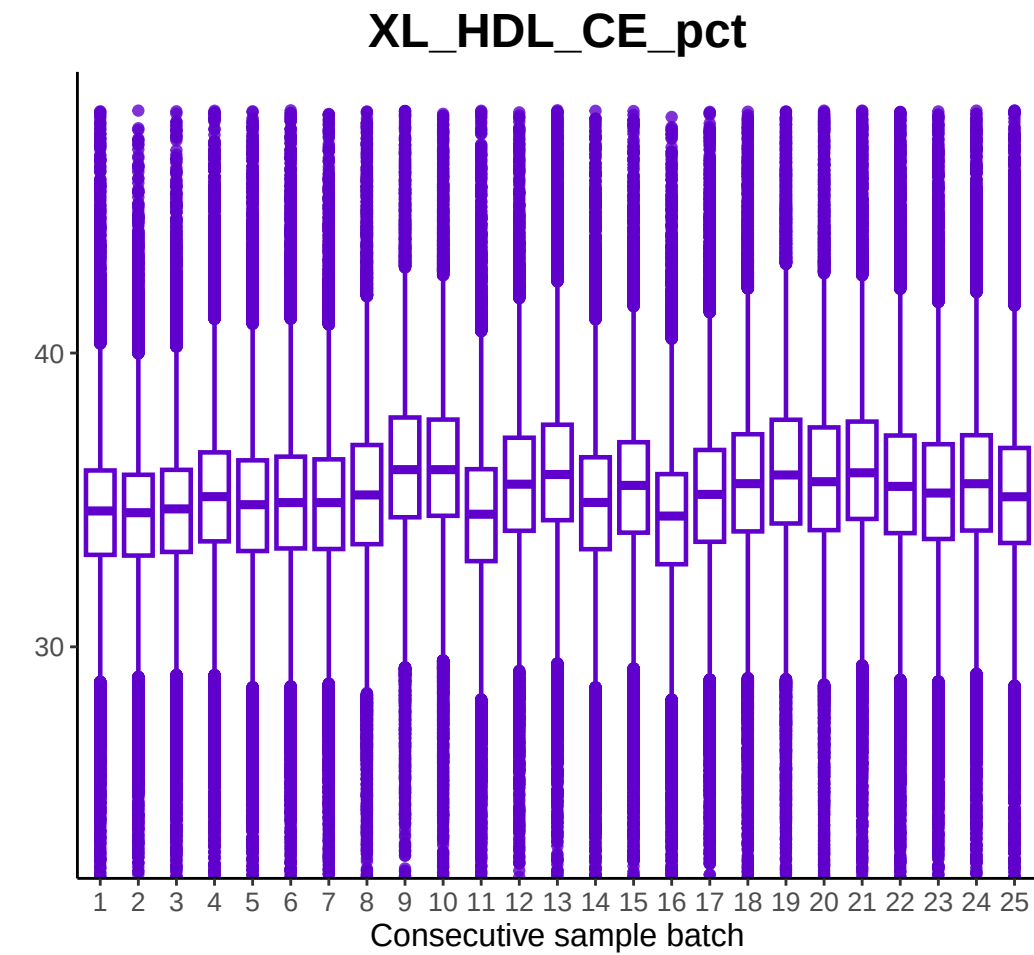
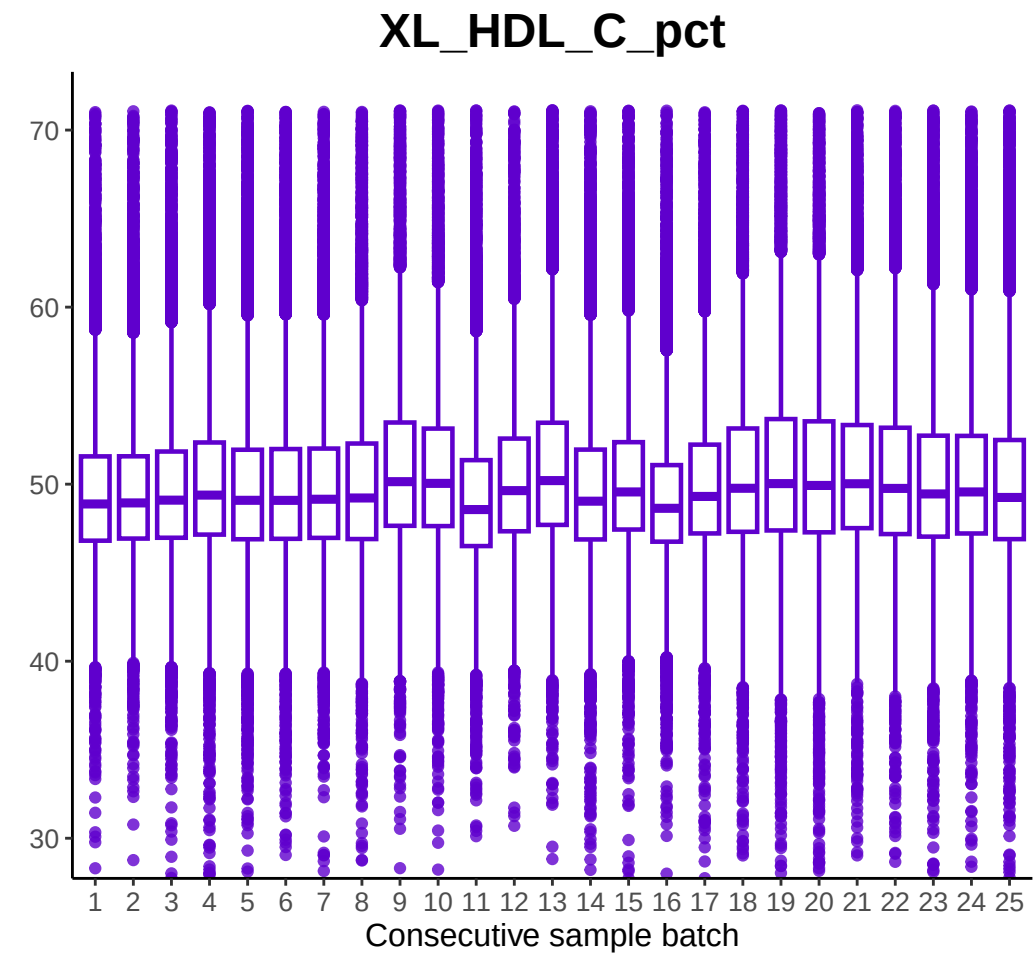
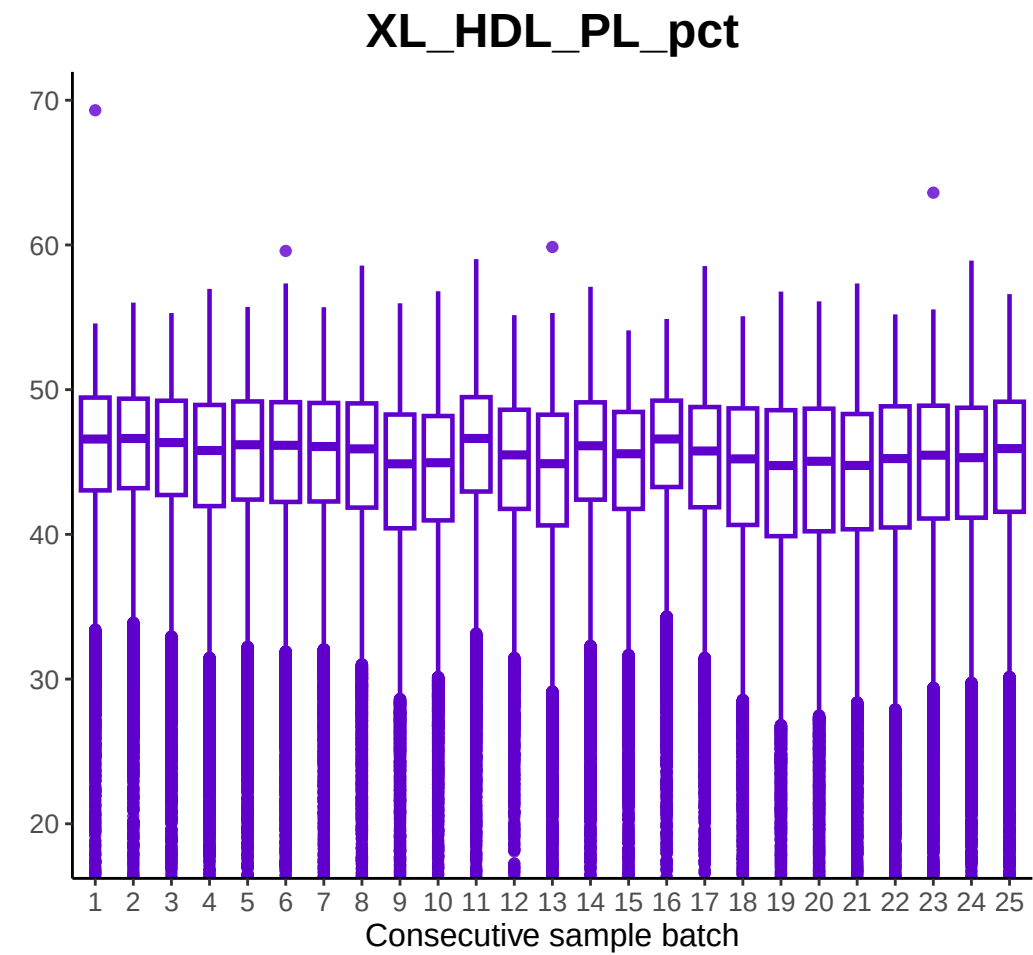
Medium LDL ratios



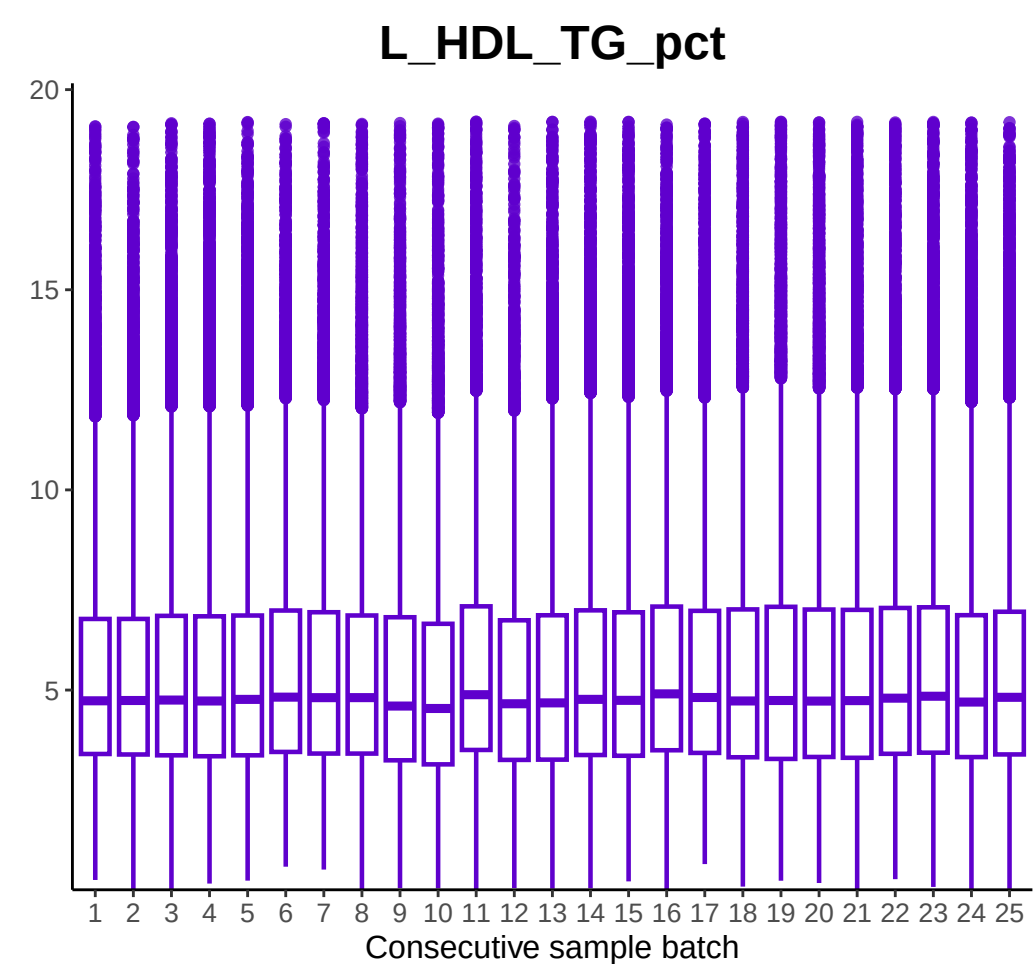
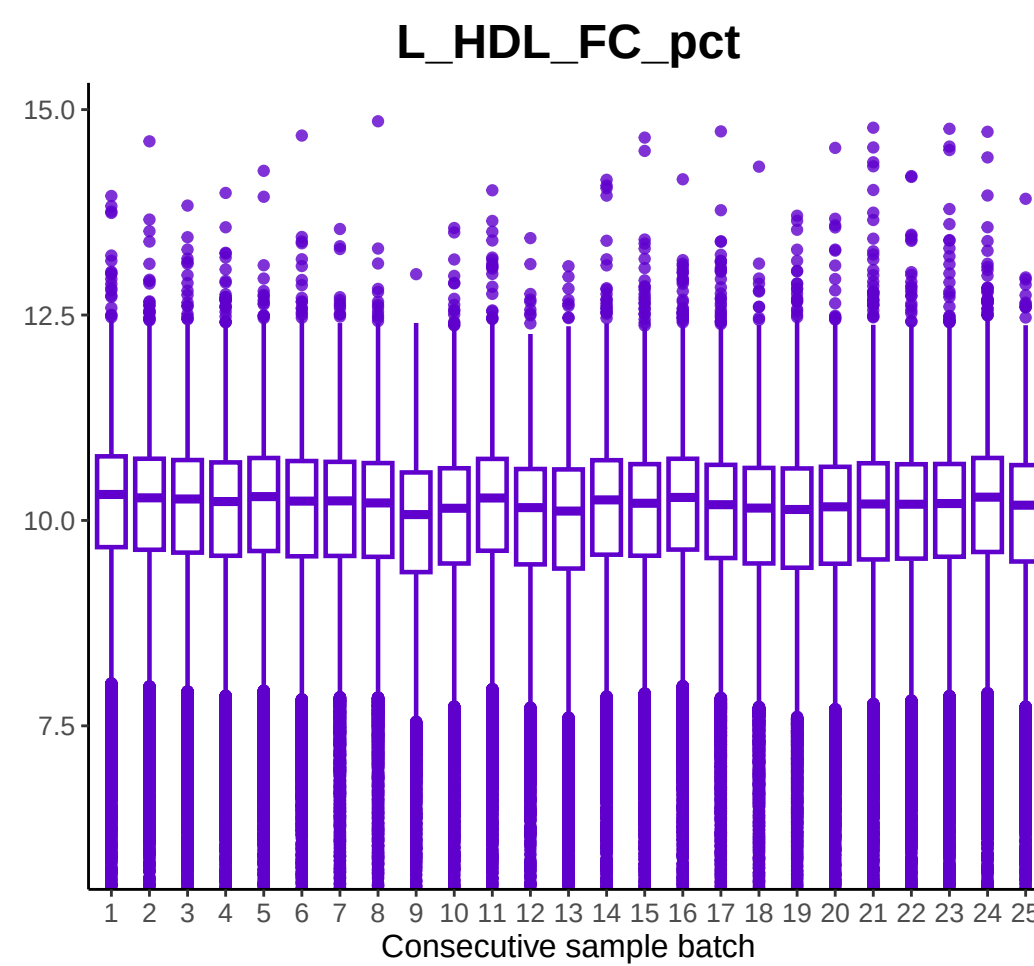
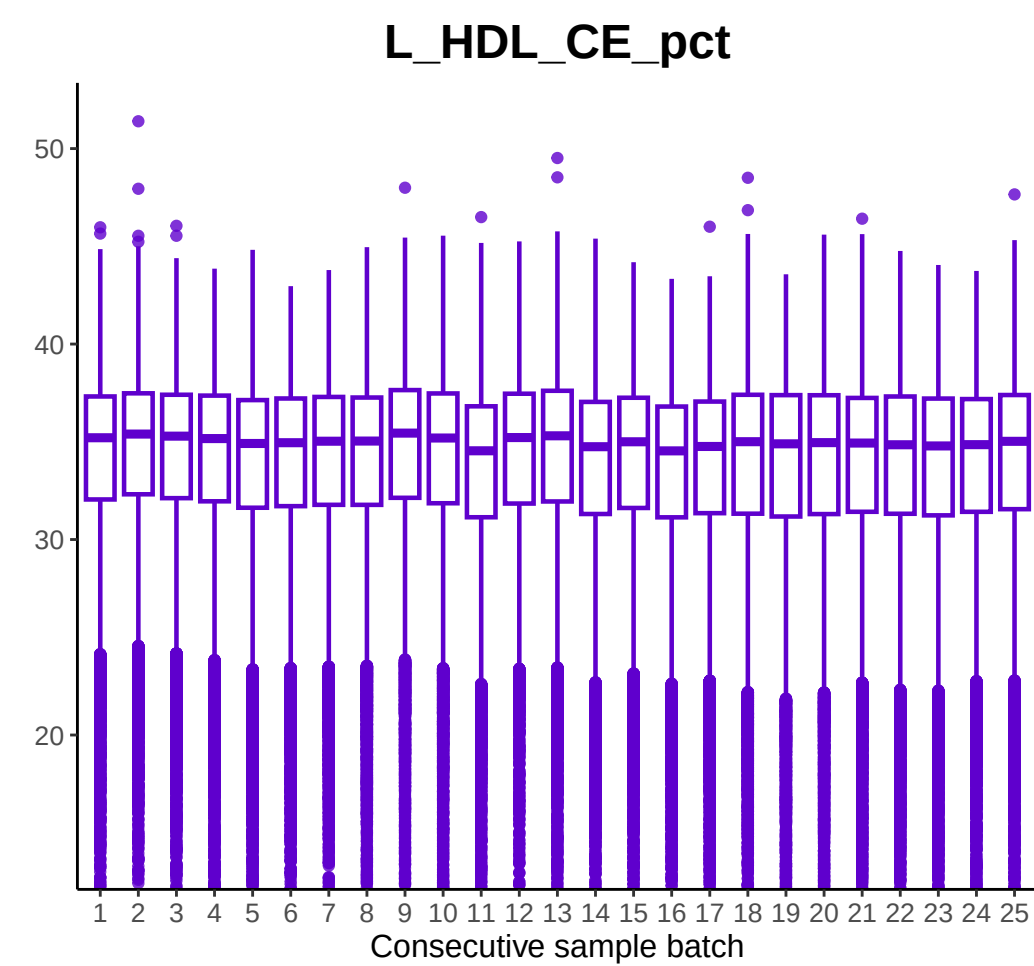
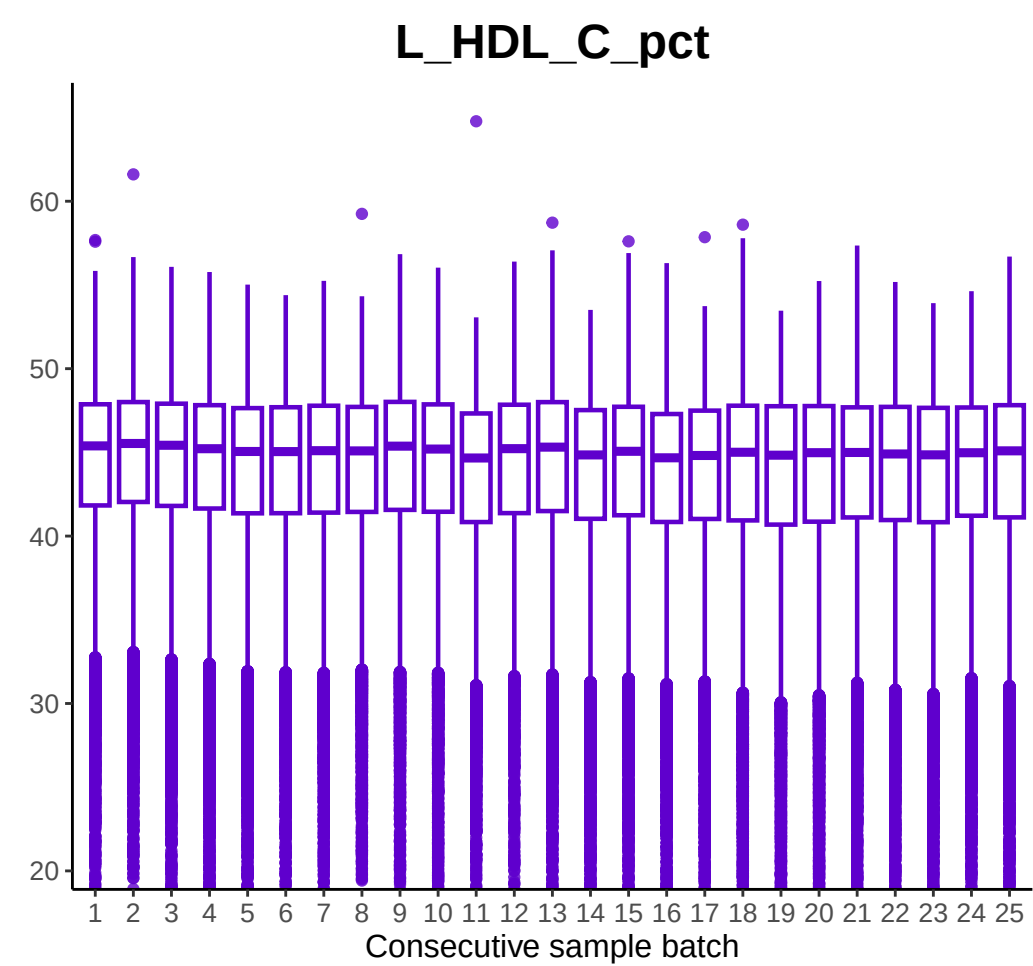
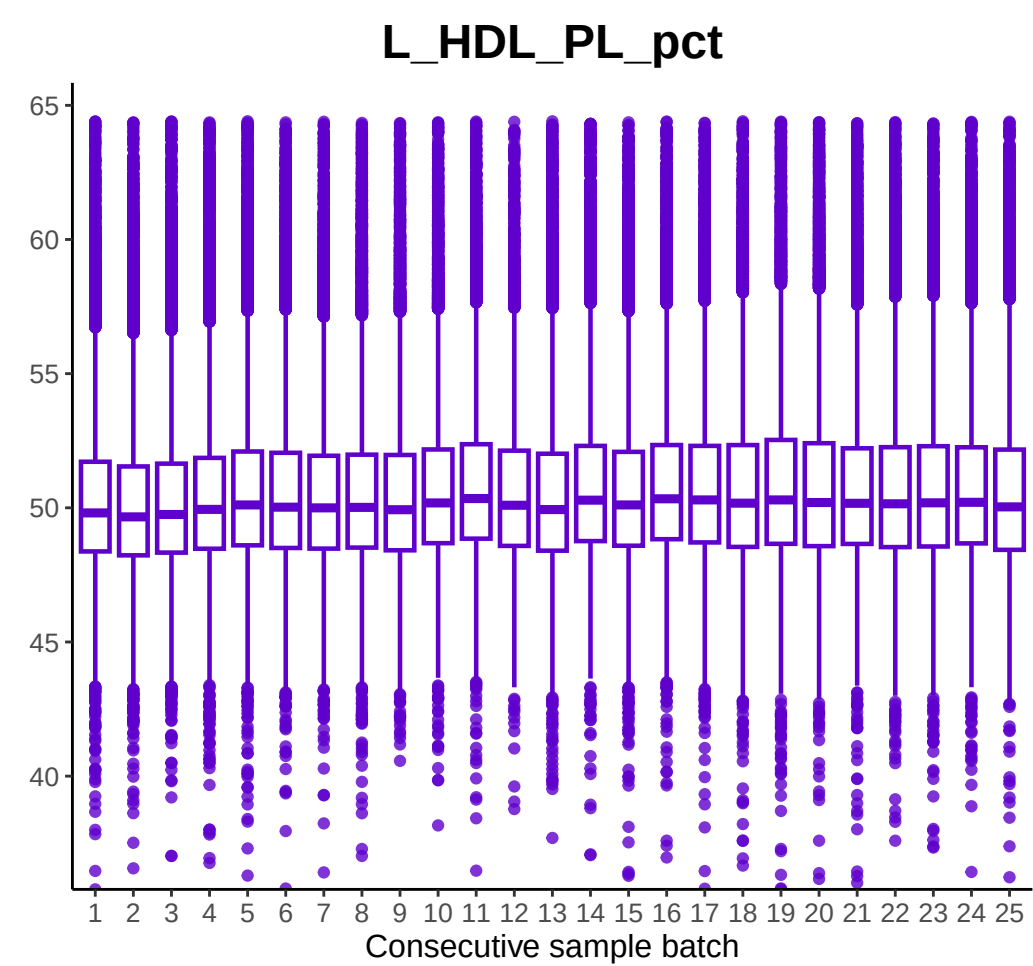
Small LDL ratios



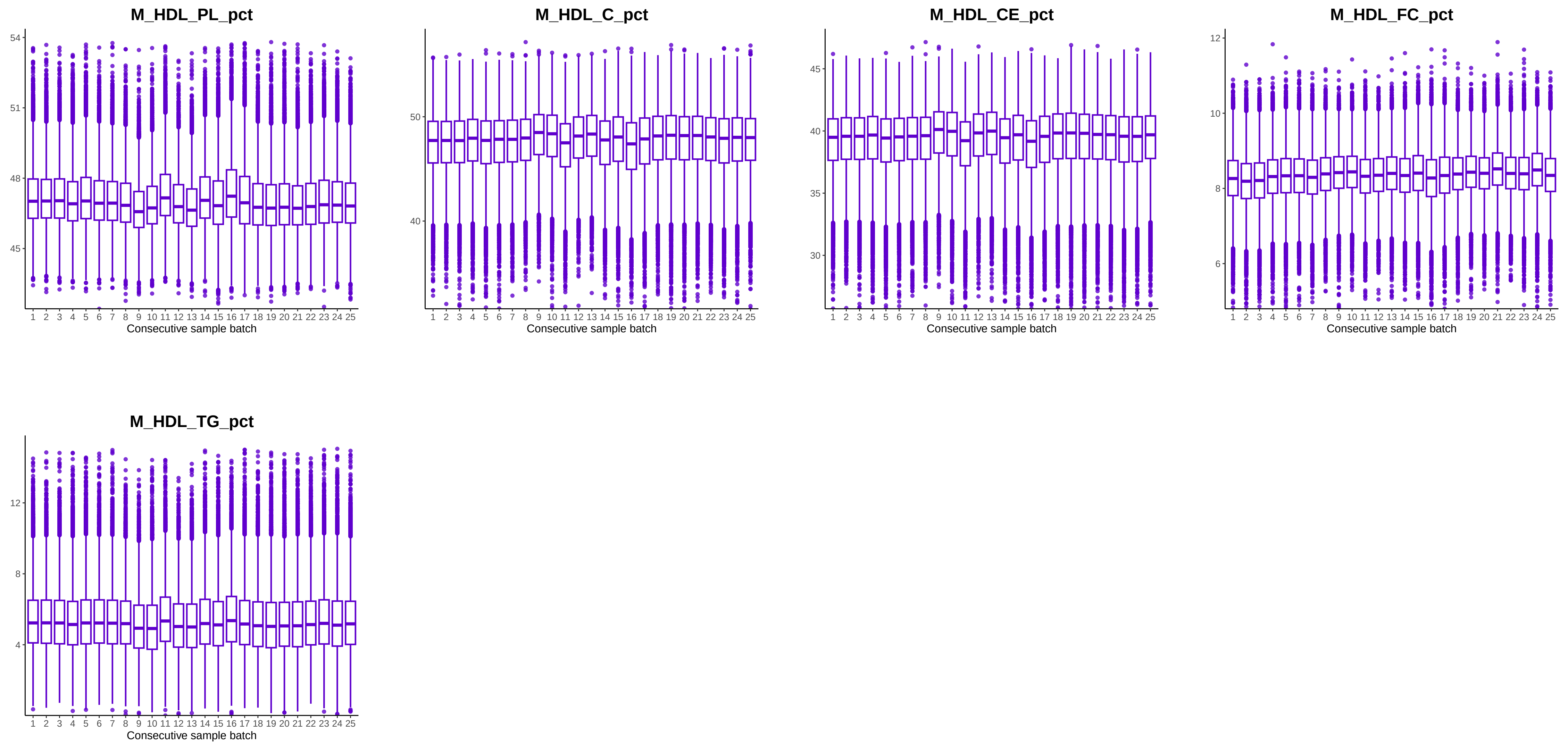
Very large HDL ratios



Large HDL ratios



Medium HDL ratios



Small HDL ratios

