

Distributions per spectrometer (phase 1 and 2)

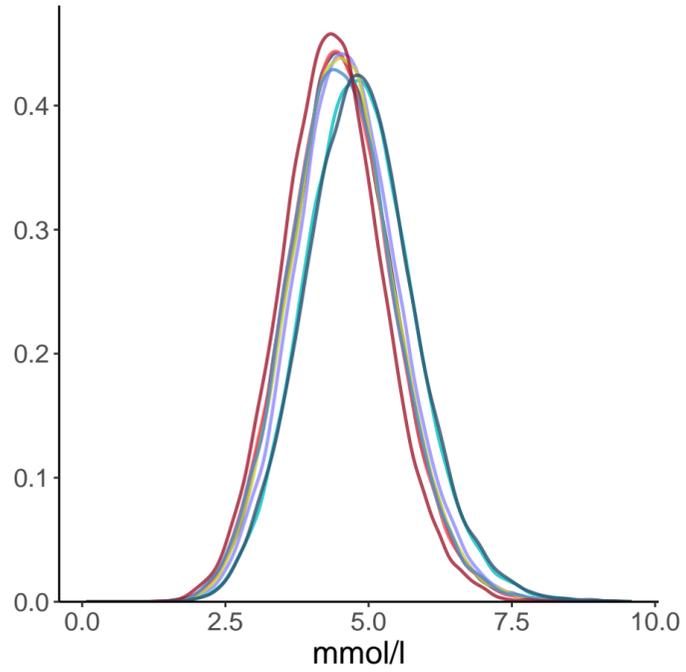
Outliers $4 \times$ IQR from median removed

Nightingale Health Plc.

Cholesterol

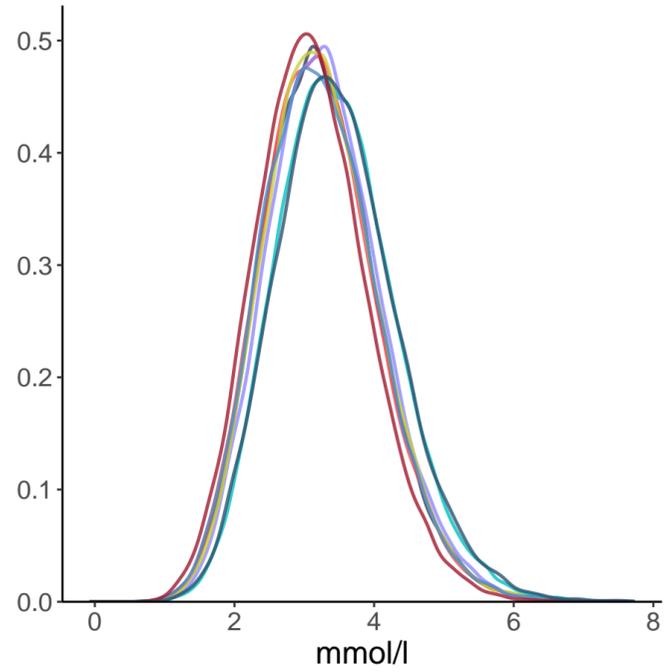
Total_C

Spectrometer



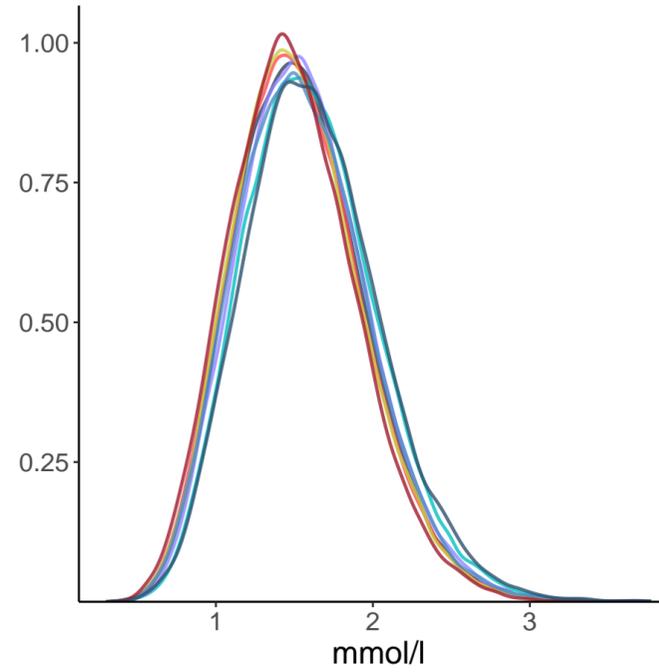
non_HDL_C

Spectrometer



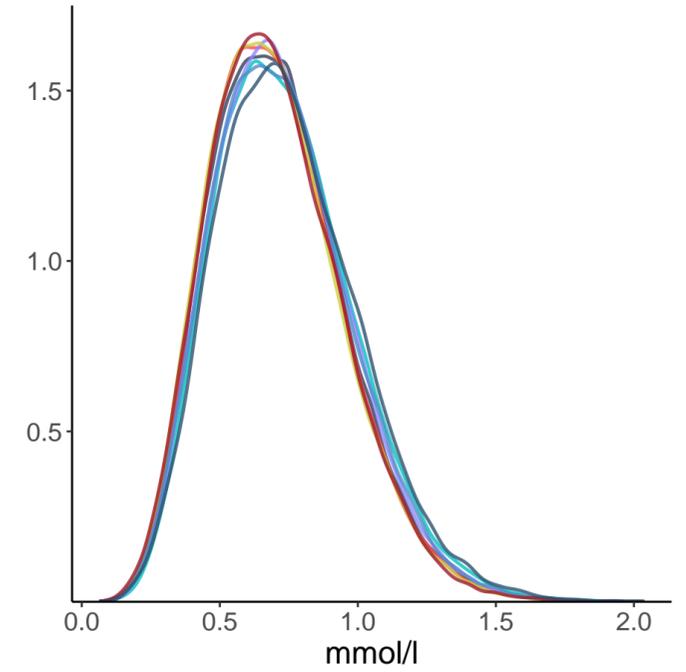
Remnant_C

Spectrometer



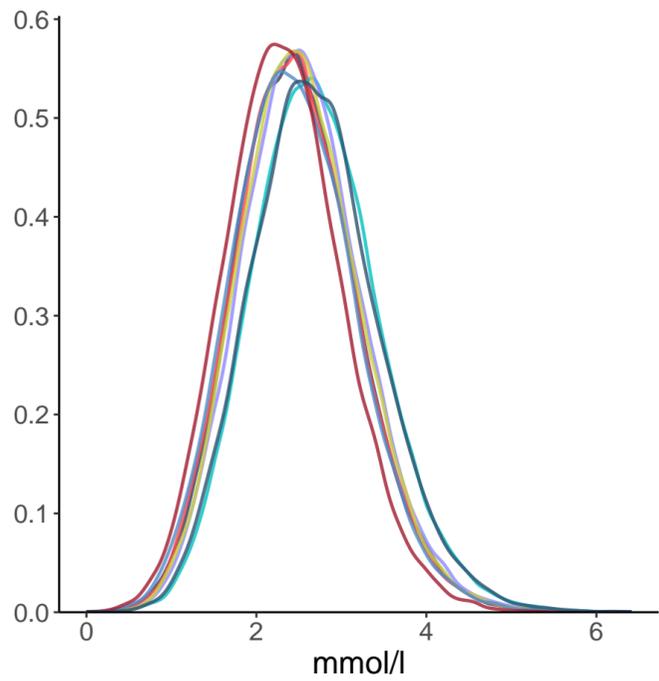
VLDL_C

Spectrometer



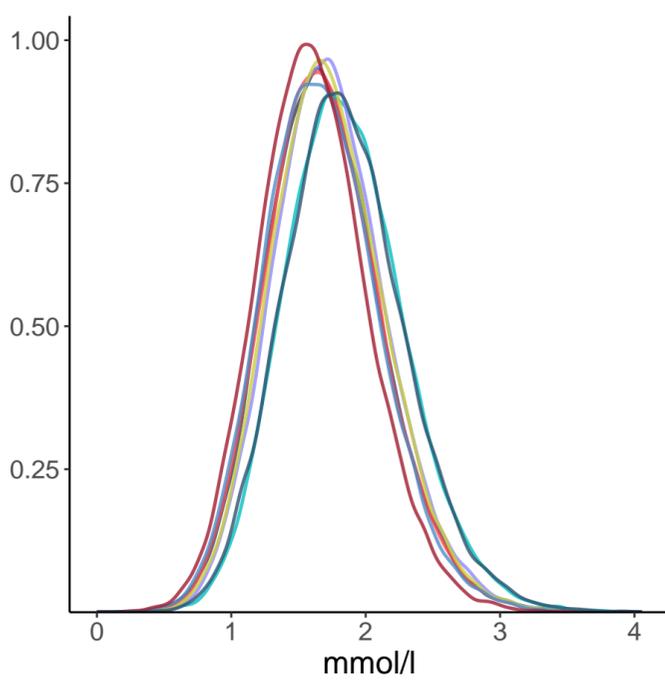
Clinical_LDL_C

Spectrometer



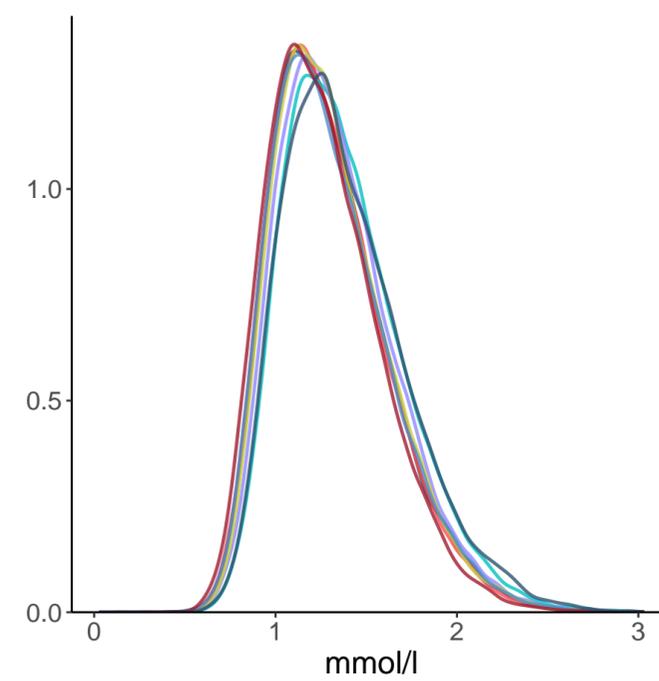
LDL_C

Spectrometer



HDL_C

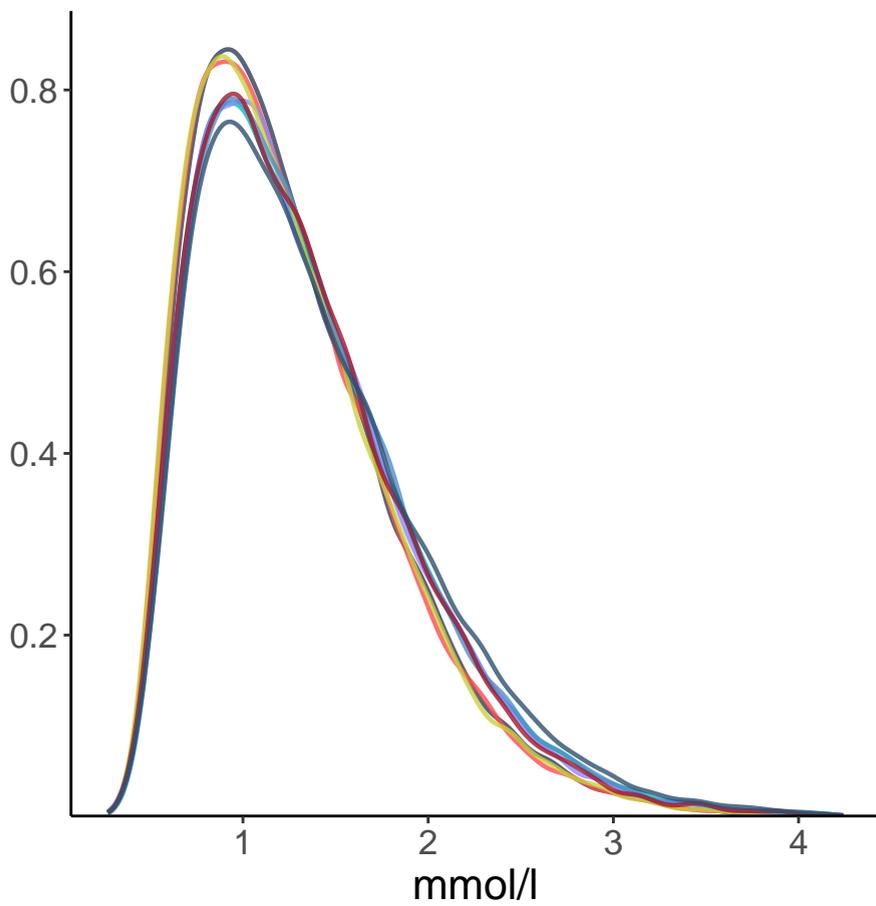
Spectrometer



Triglycerides

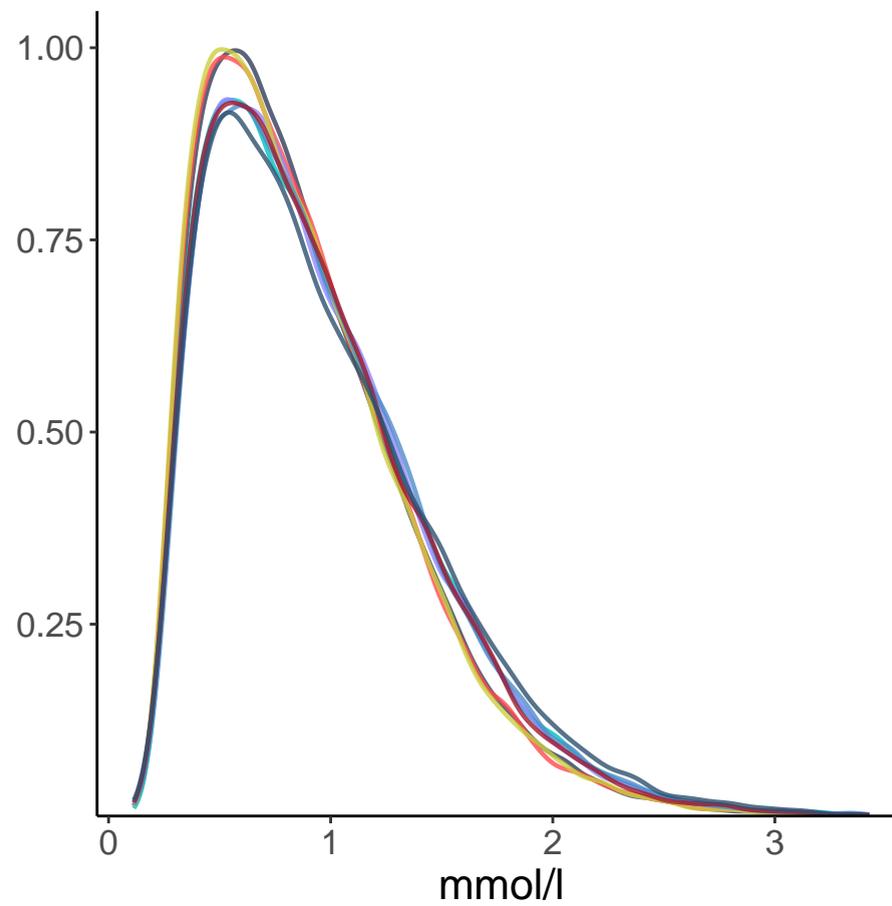
Total_TG

Spectrometer



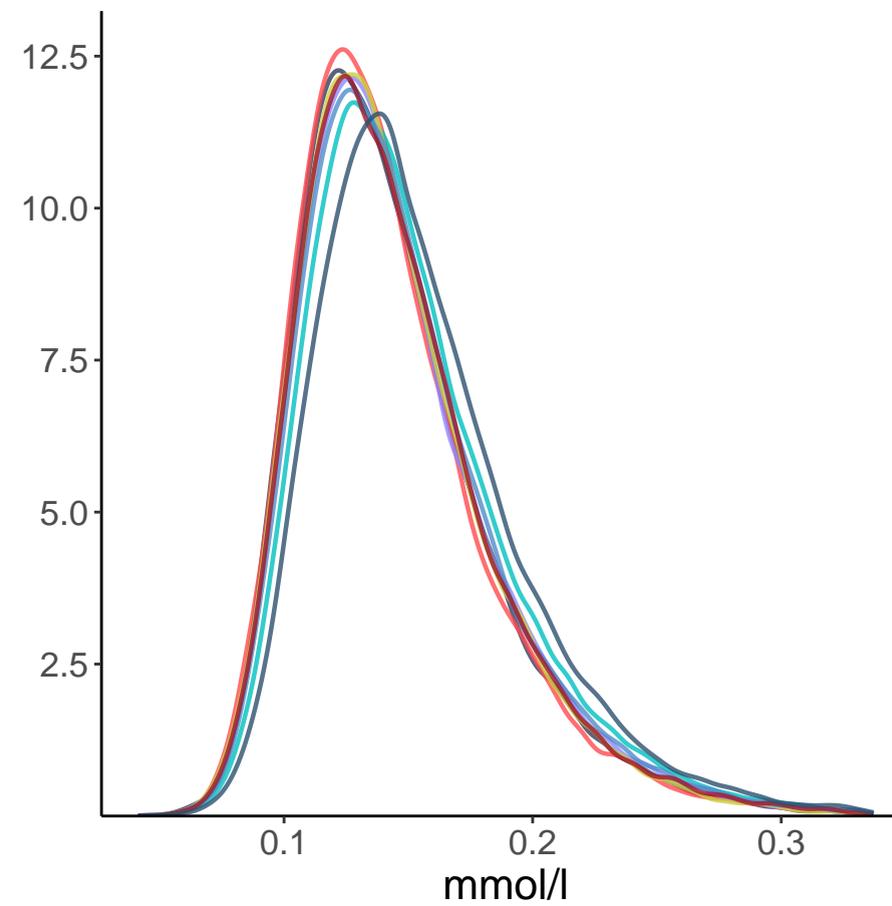
VLDL_TG

Spectrometer



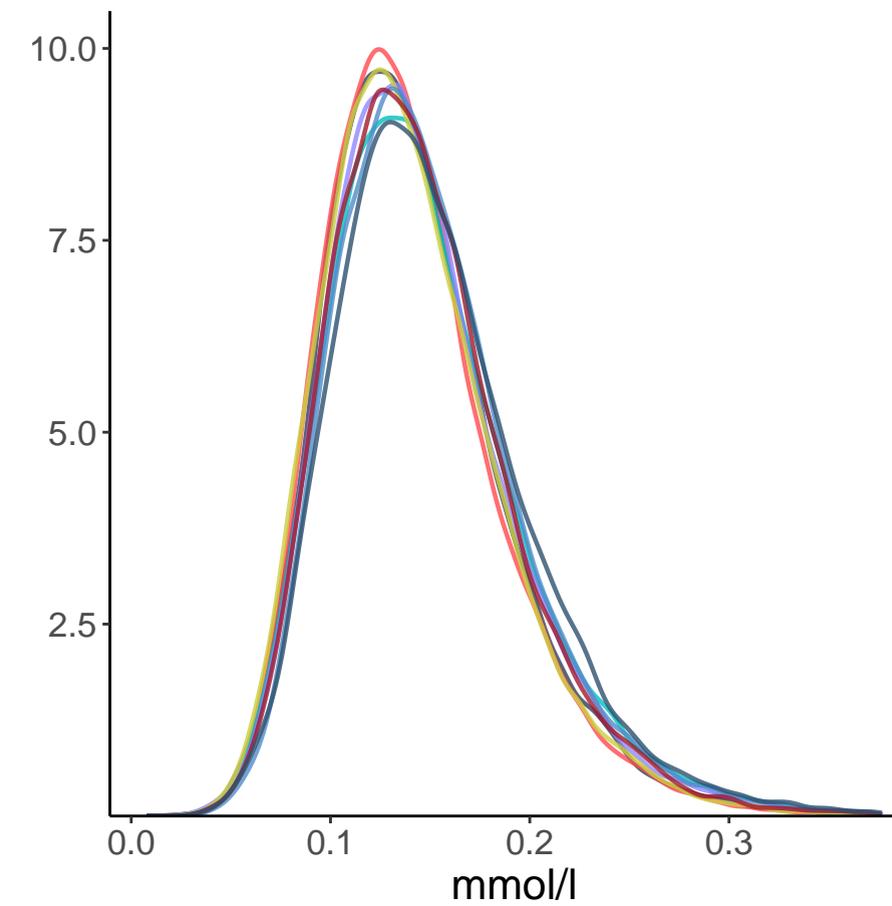
LDL_TG

Spectrometer



HDL_TG

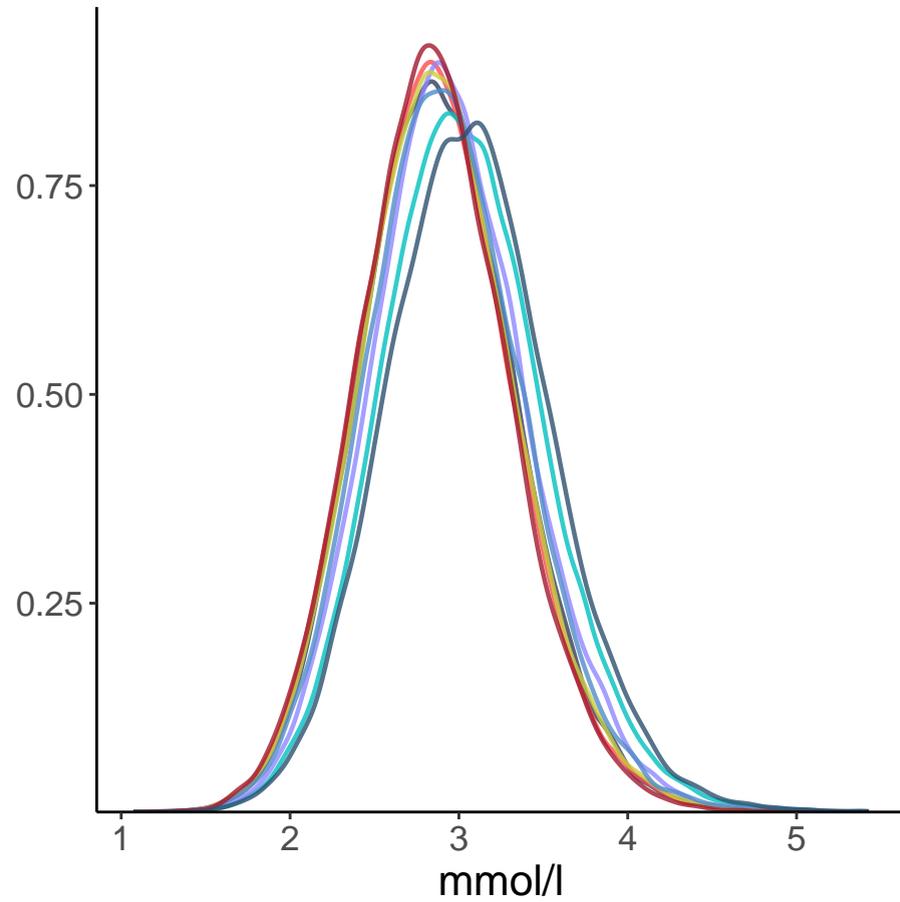
Spectrometer



Phospholipids

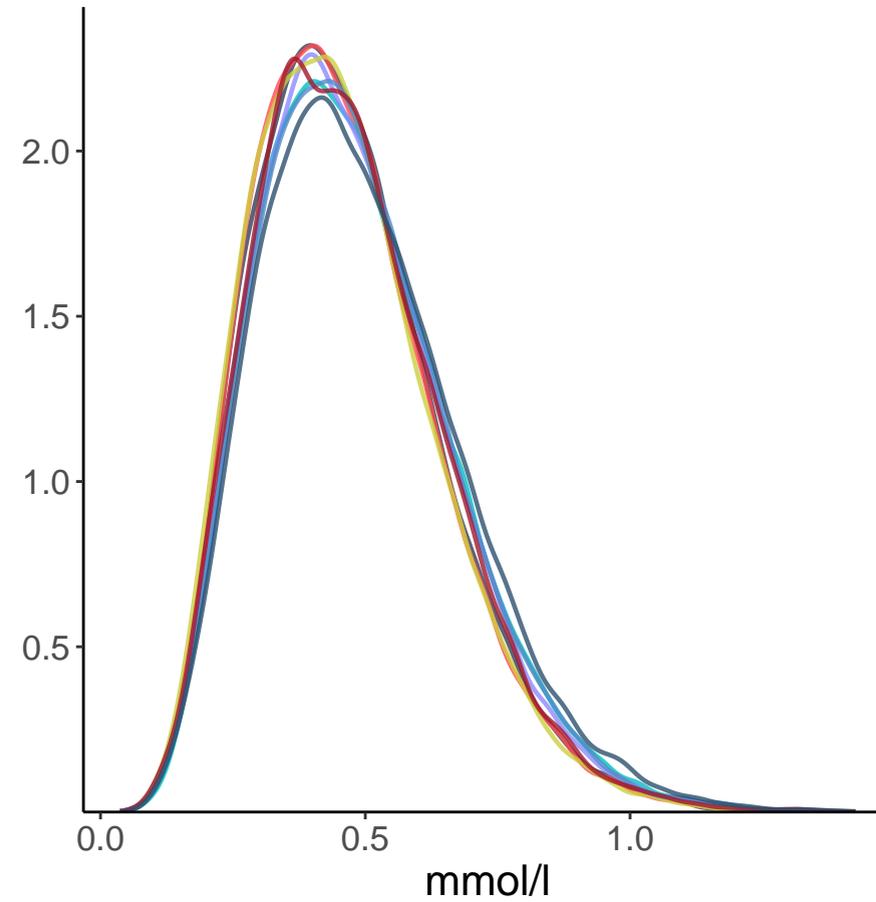
Total_PL

Spectrometer



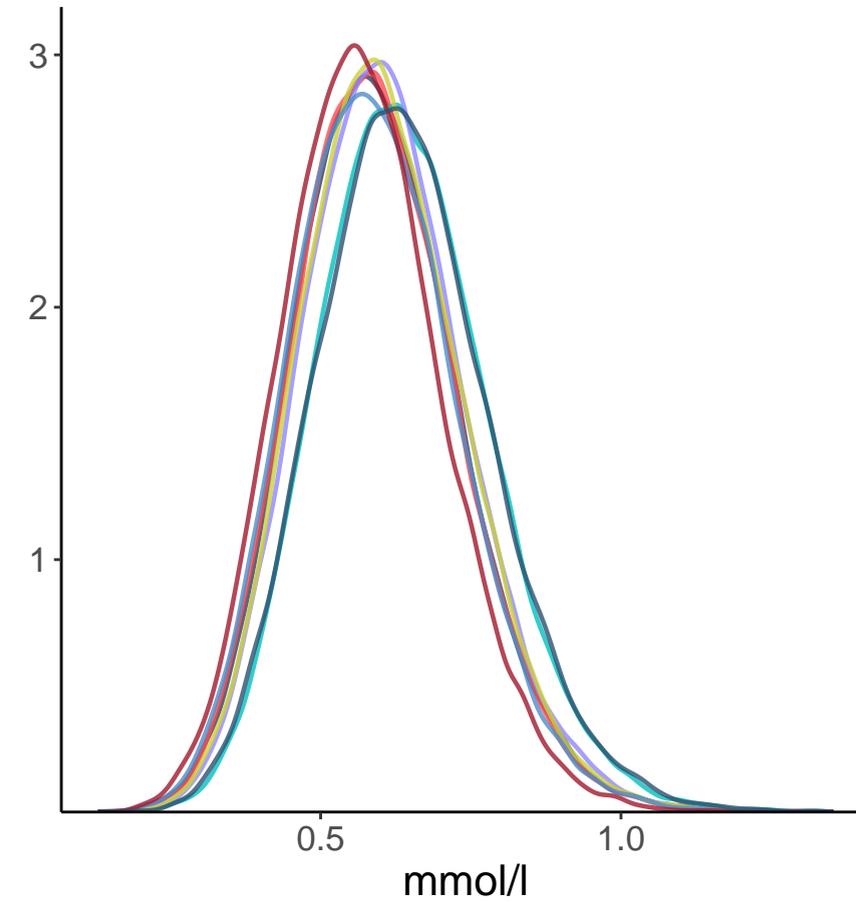
VLDL_PL

Spectrometer



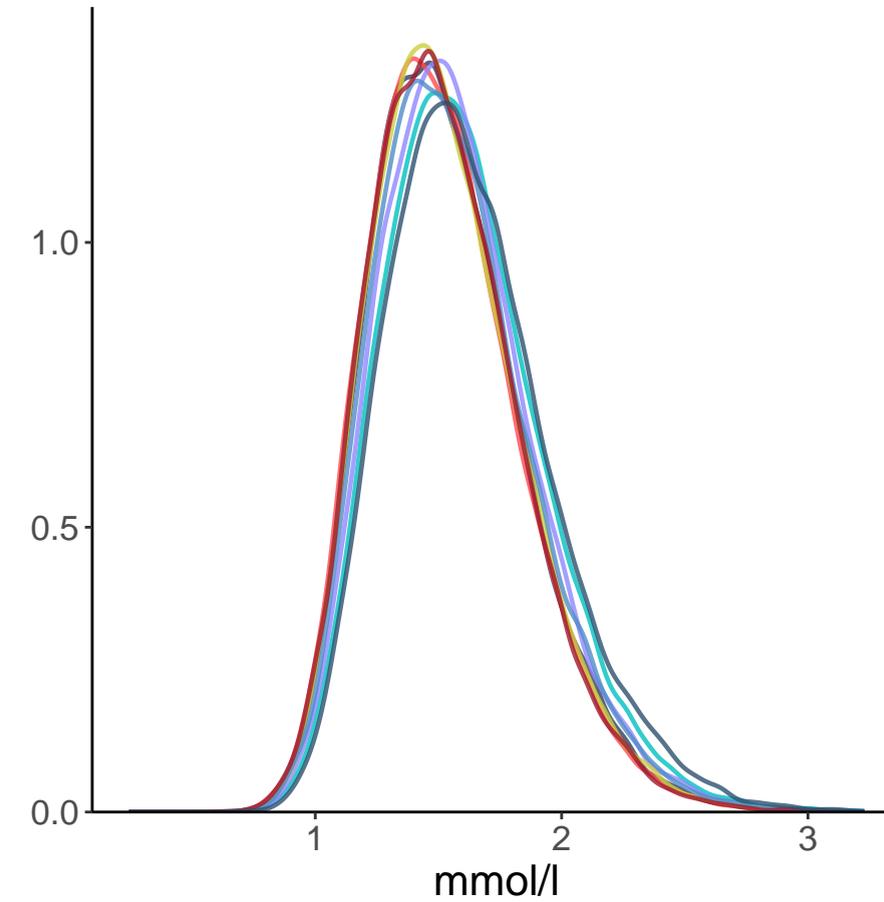
LDL_PL

Spectrometer



HDL_PL

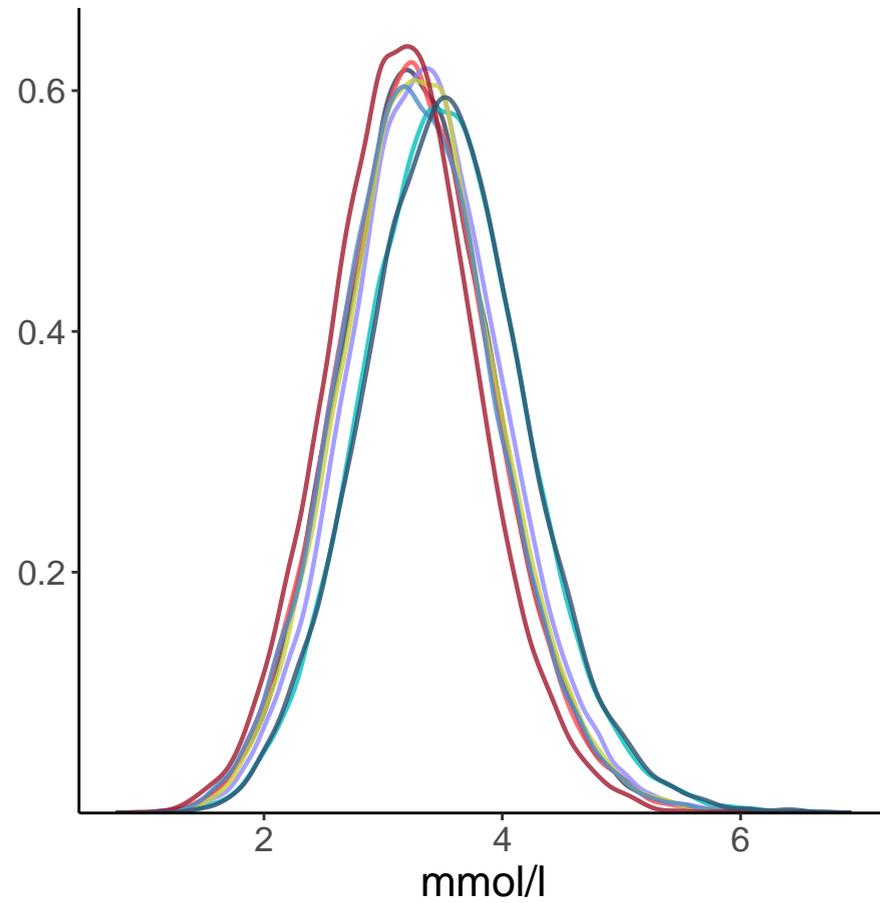
Spectrometer



Cholesteryl esters

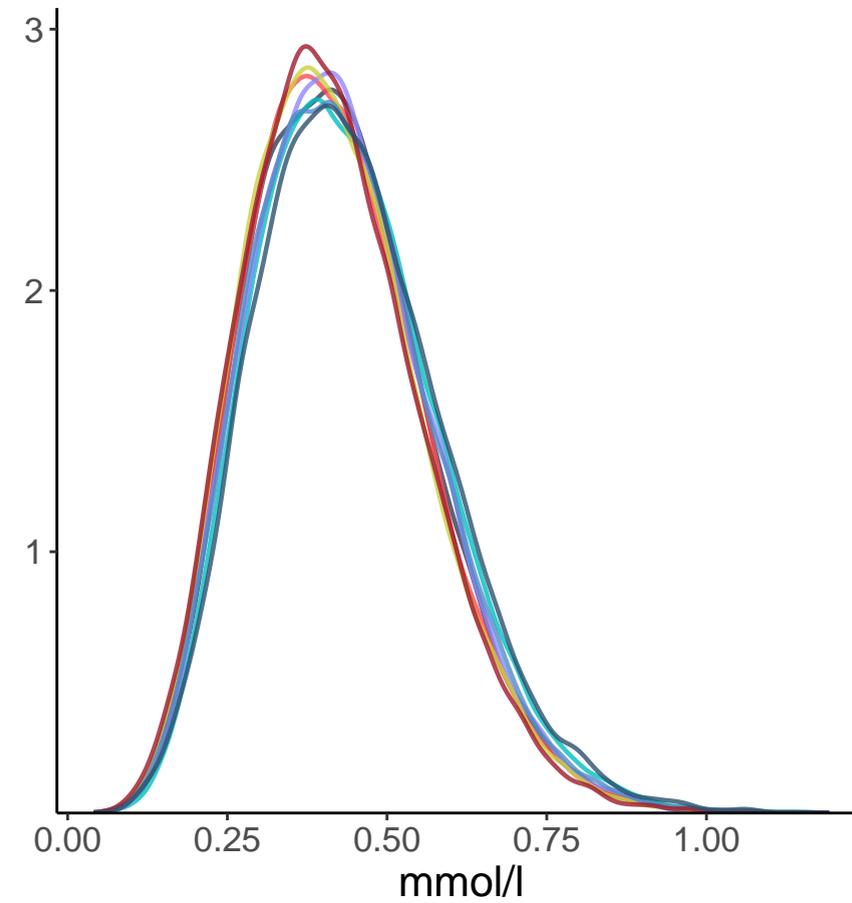
Total_CE

Spectrometer



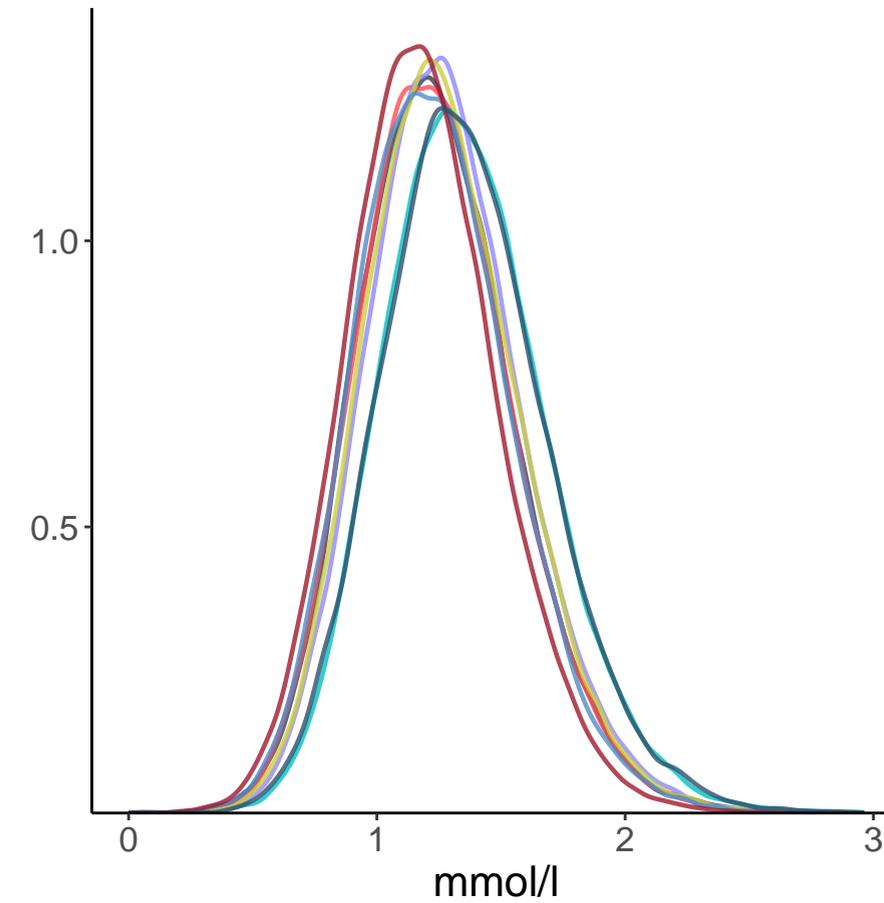
VLDL_CE

Spectrometer



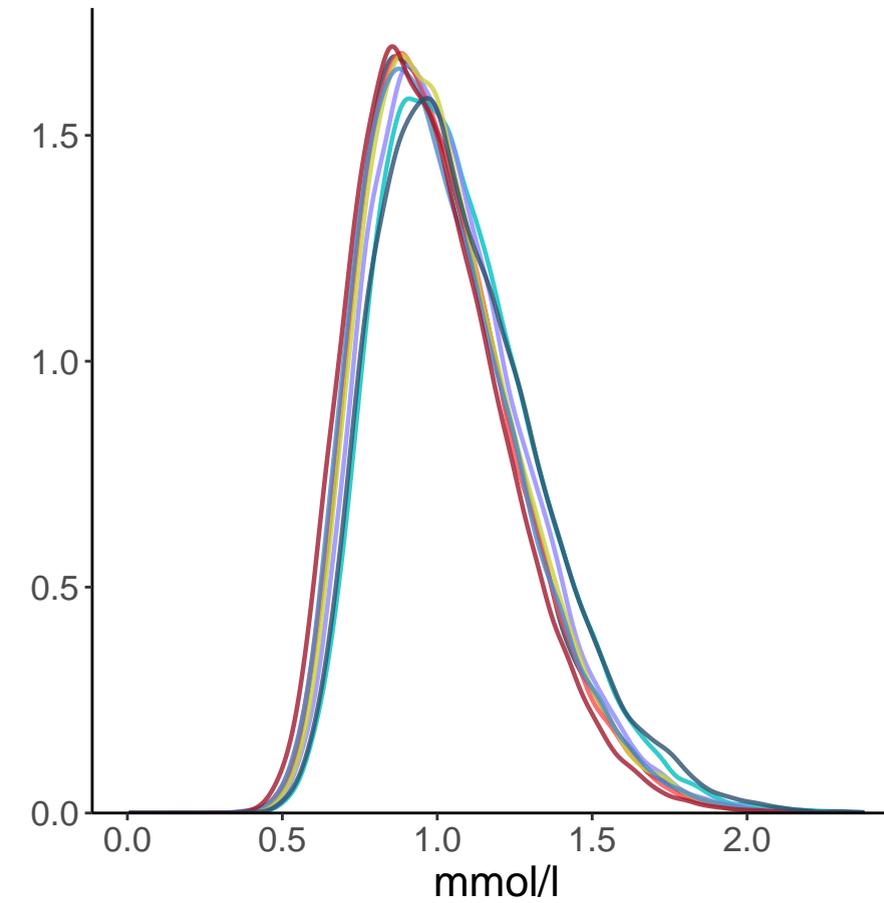
LDL_CE

Spectrometer



HDL_CE

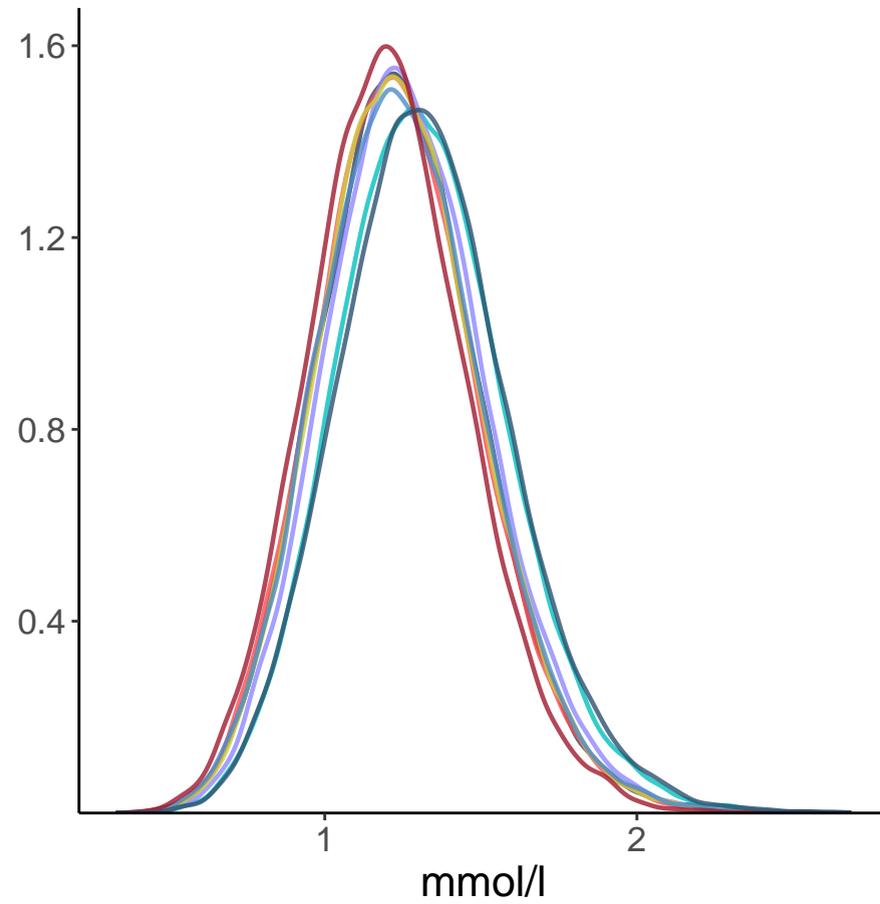
Spectrometer



Free cholesterol

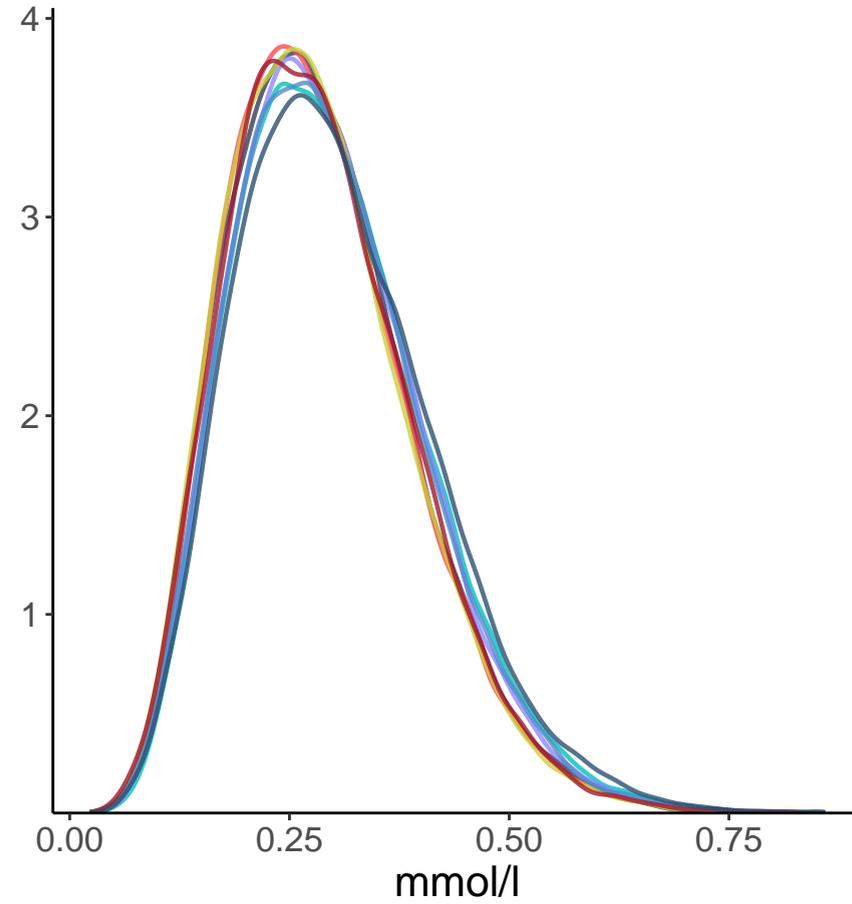
Total_FC

Spectrometer



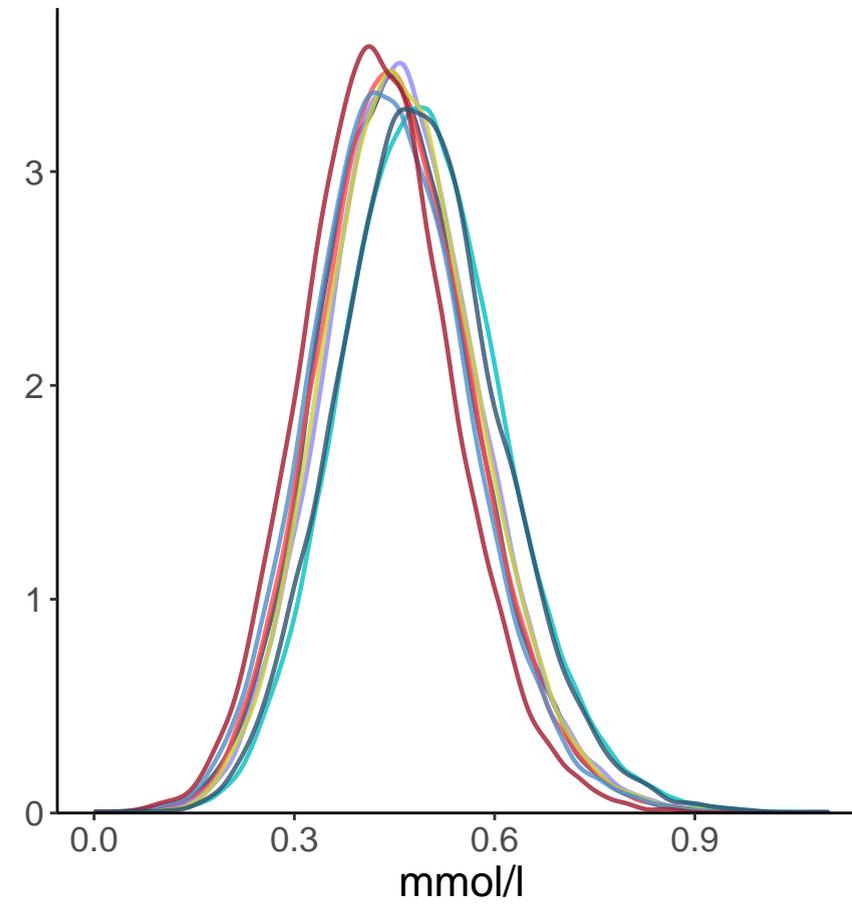
VLDL_FC

Spectrometer



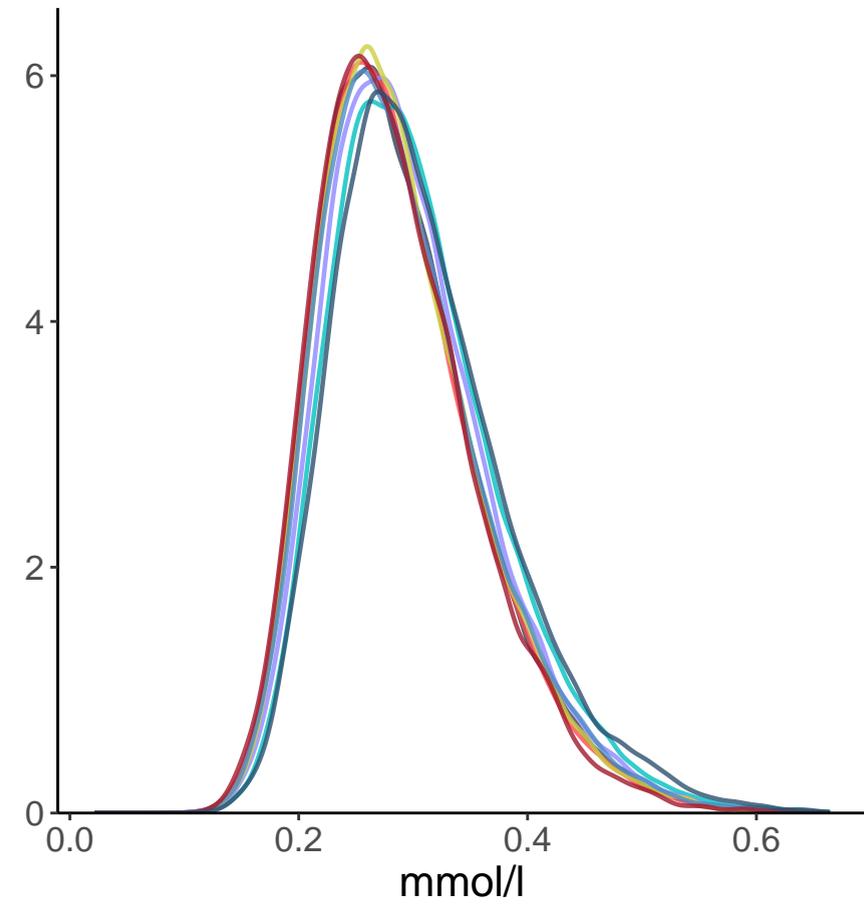
LDL_FC

Spectrometer



HDL_FC

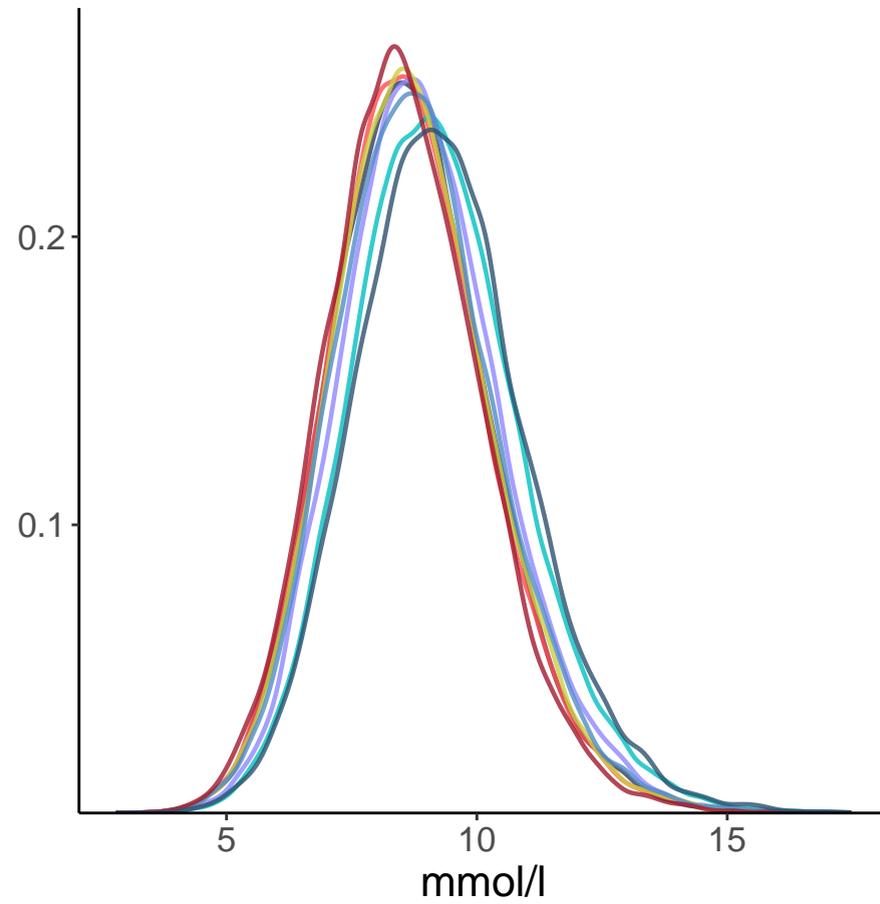
Spectrometer



Total lipids

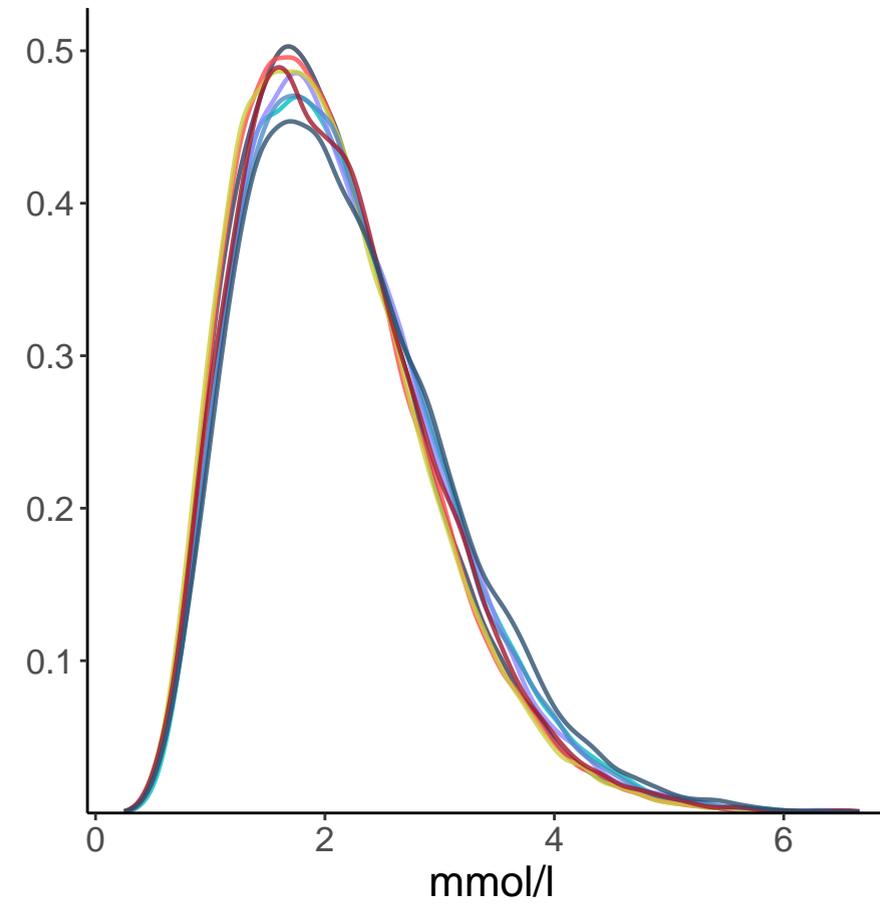
Total_L

Spectrometer



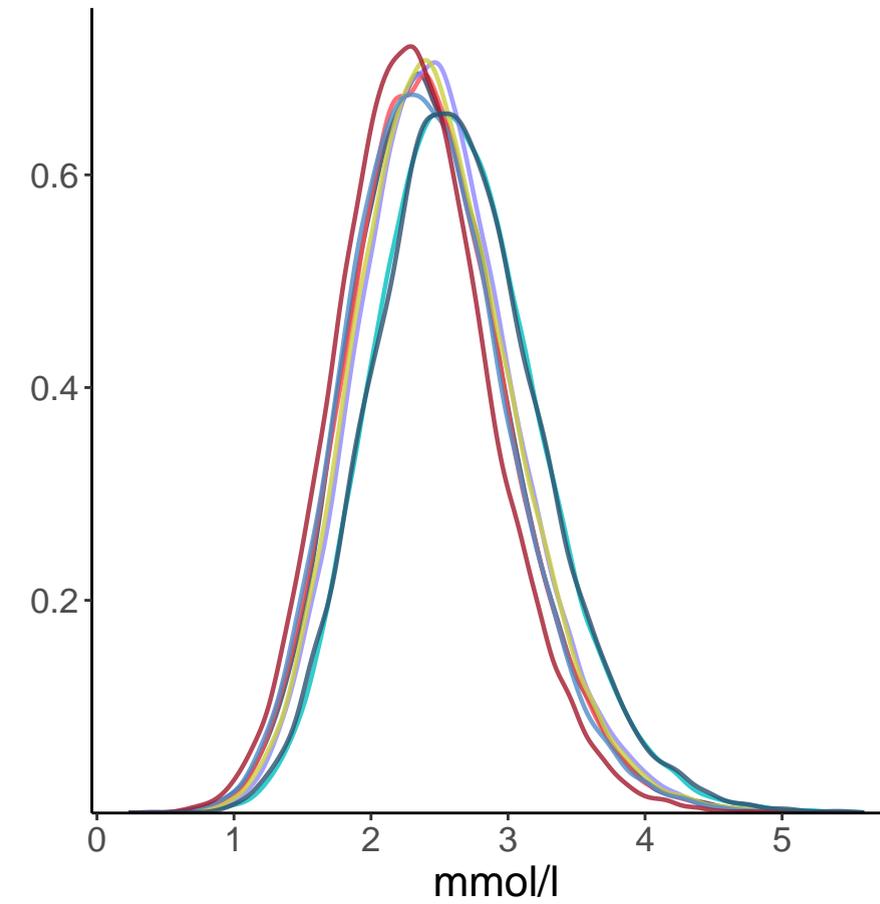
VLDL_L

Spectrometer



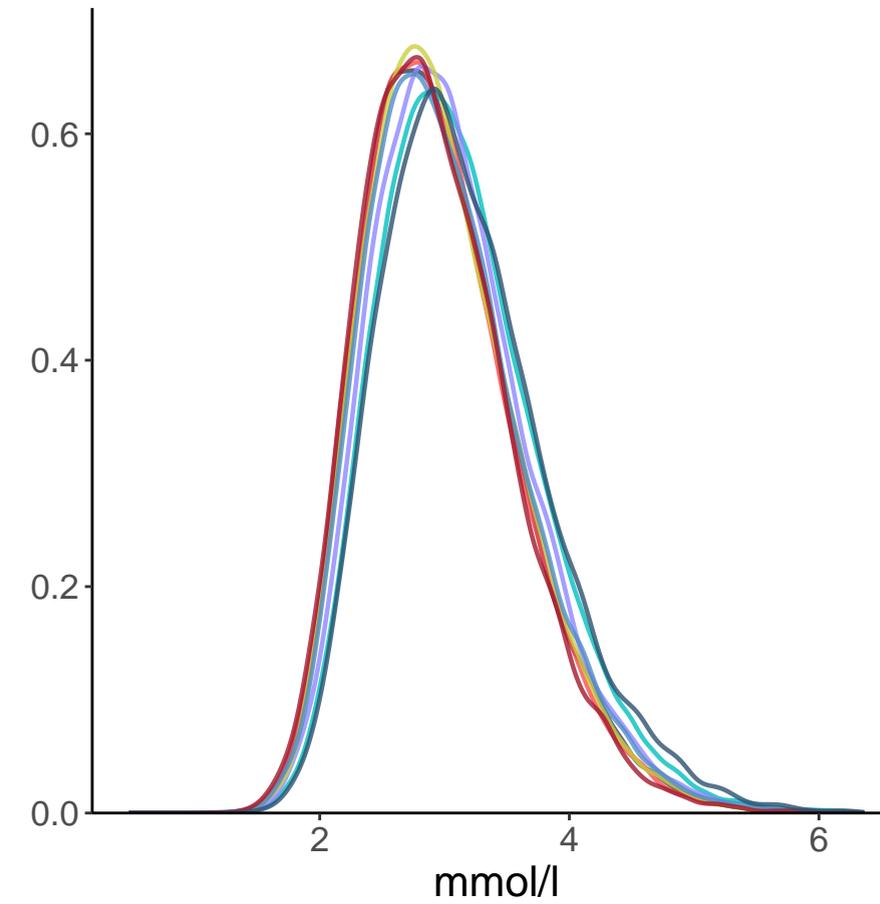
LDL_L

Spectrometer



HDL_L

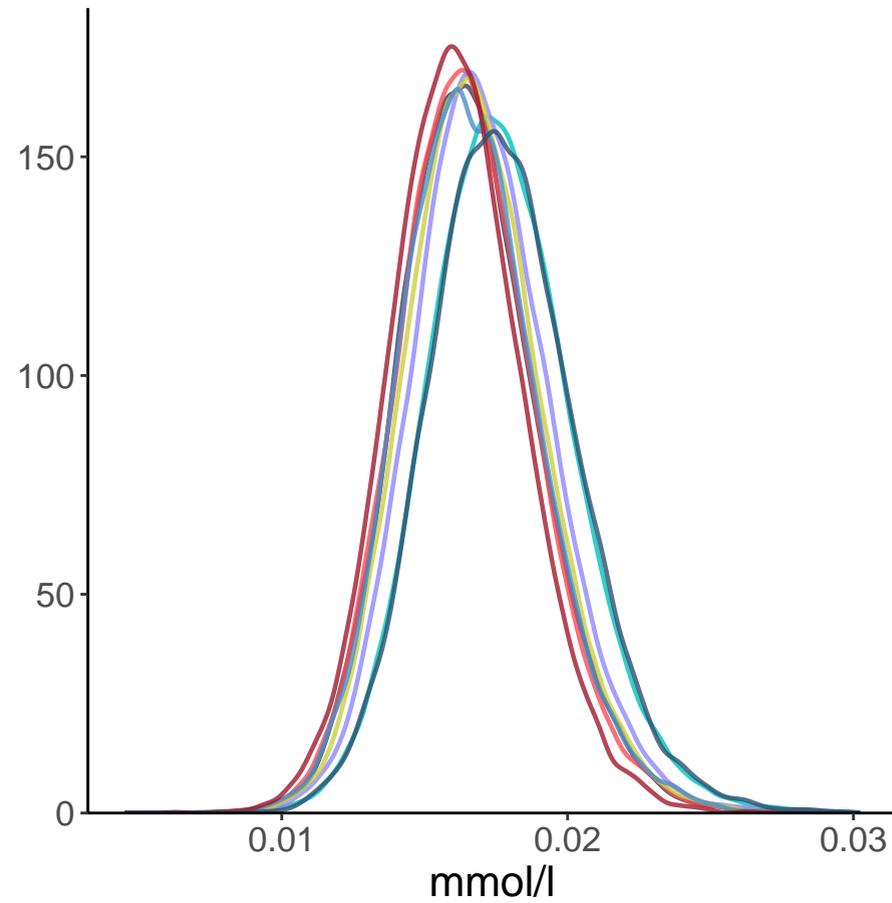
Spectrometer



Lipoprotein particle concentrations

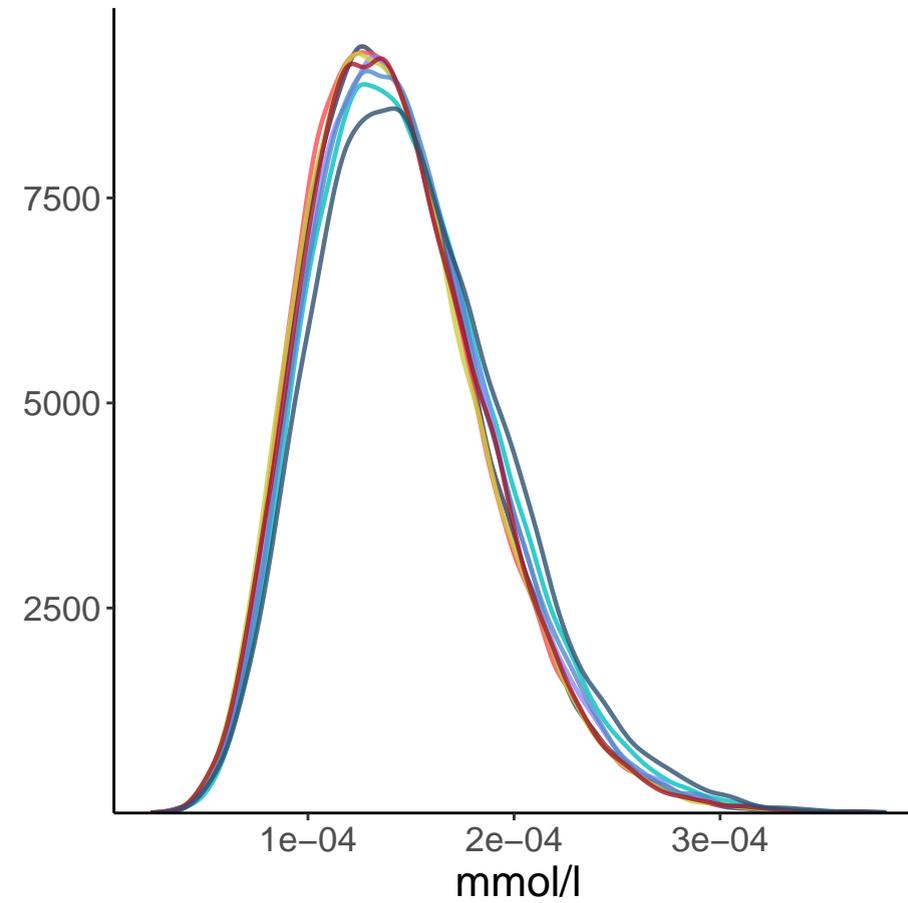
Total_P

Spectrometer



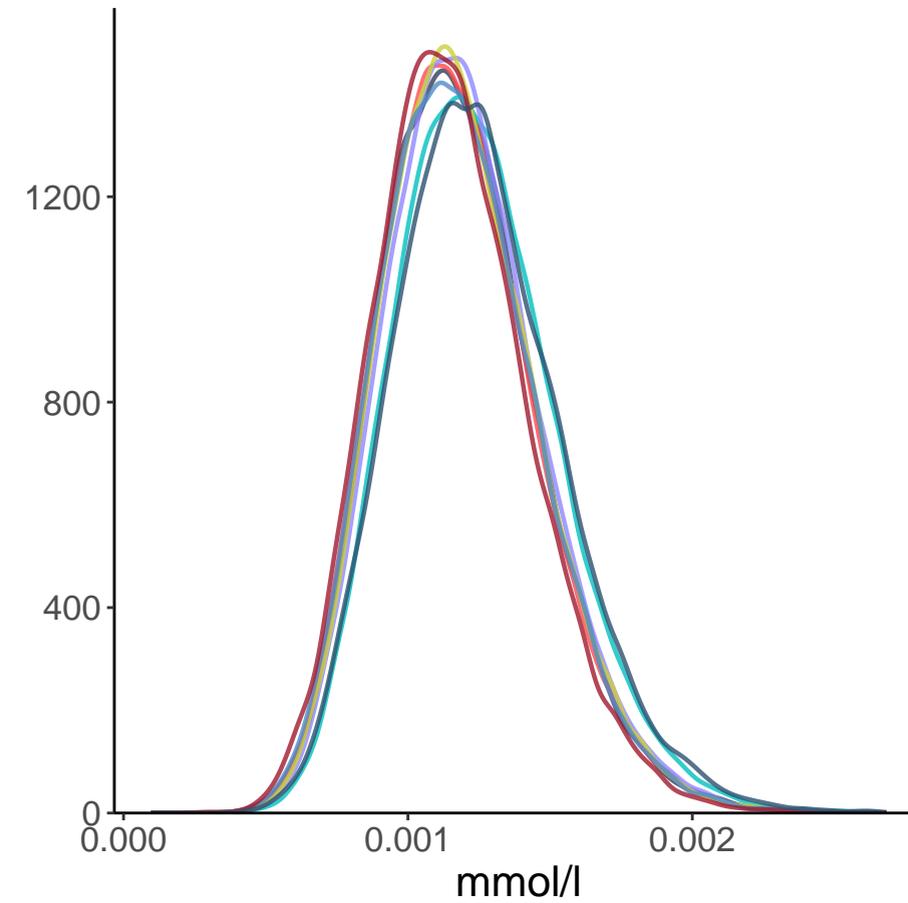
VLDL_P

Spectrometer



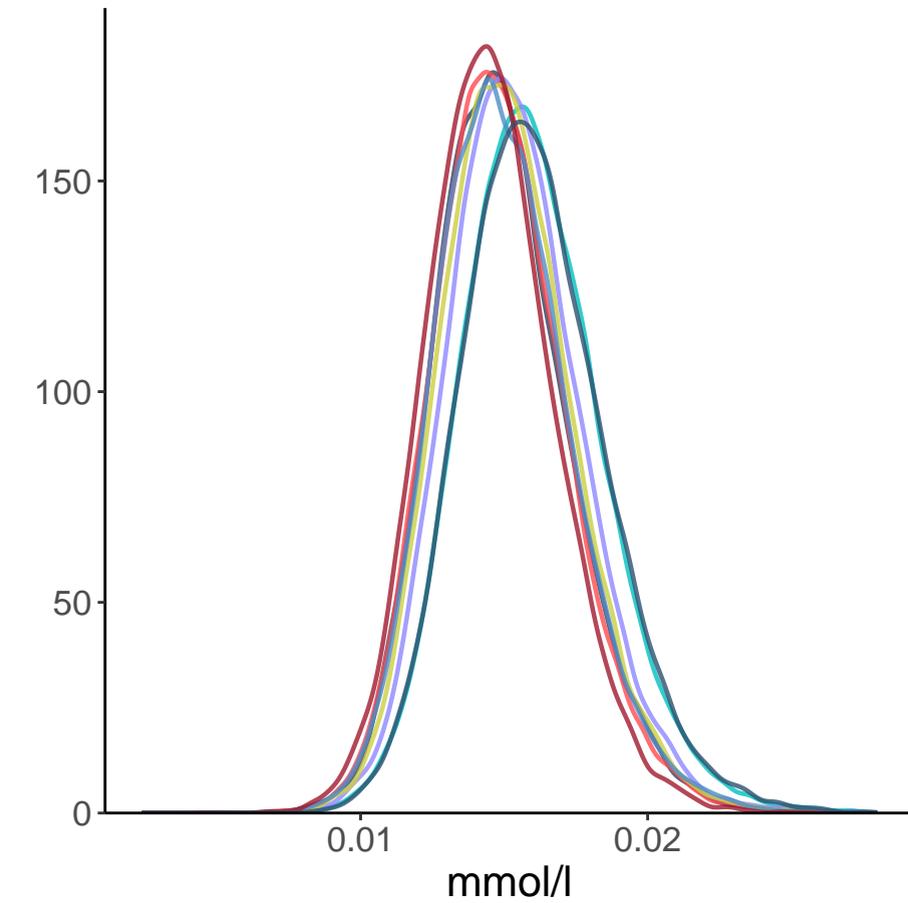
LDL_P

Spectrometer



HDL_P

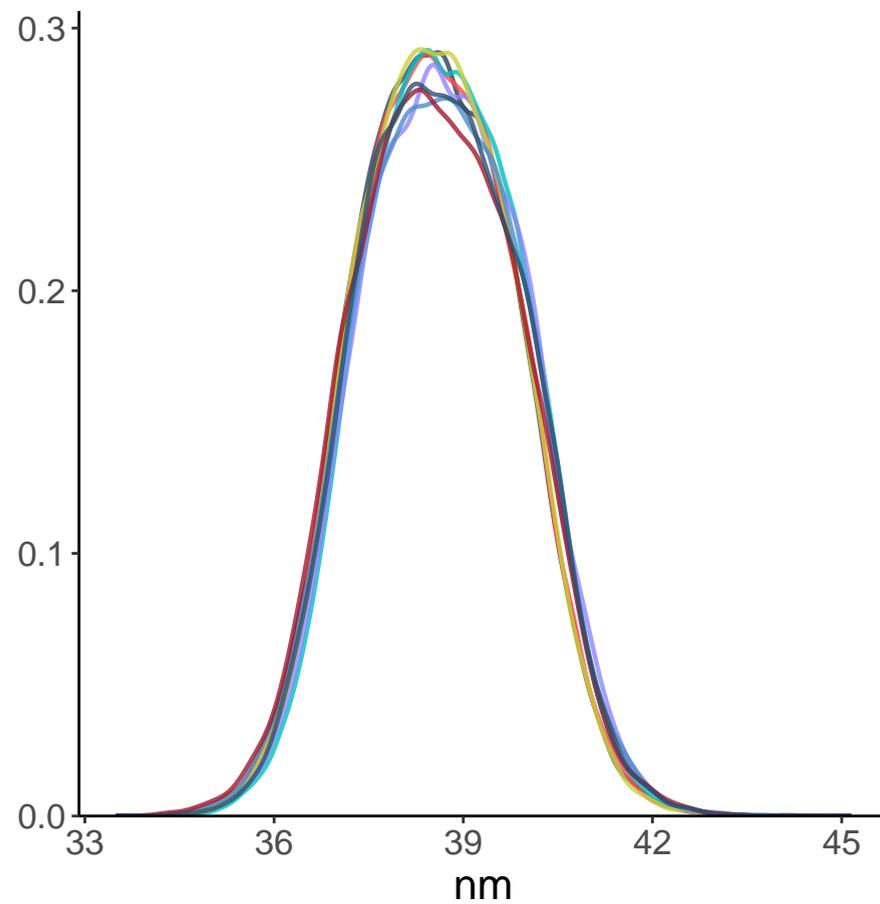
Spectrometer



Lipoprotein particle sizes

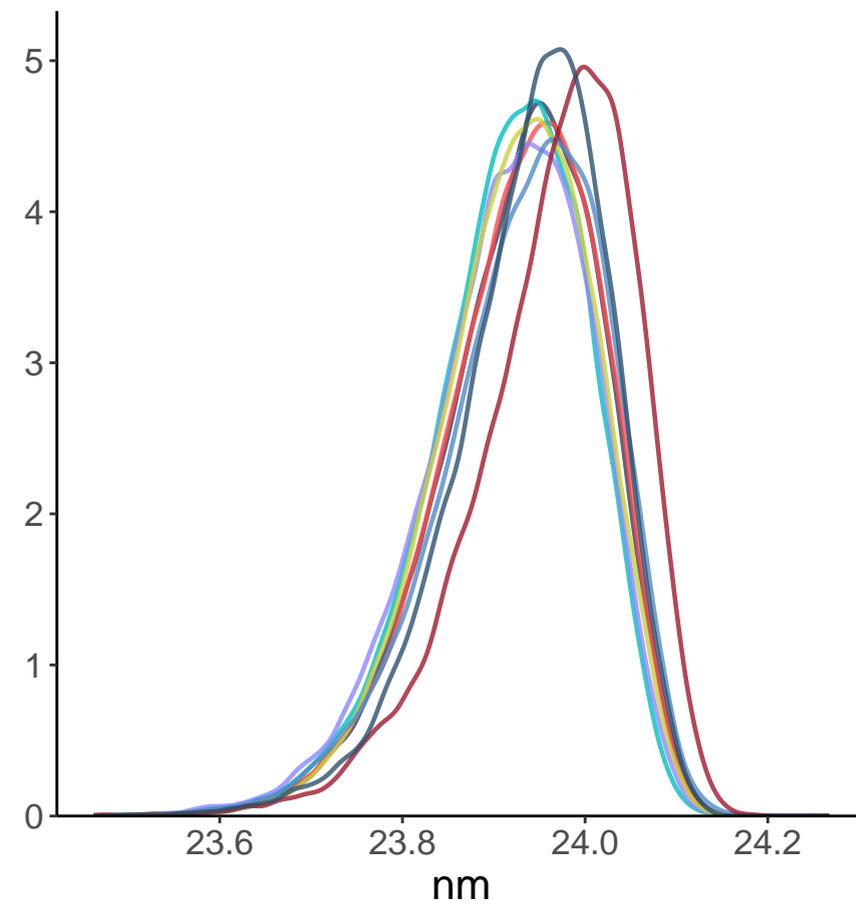
VLDL_size

Spectrometer



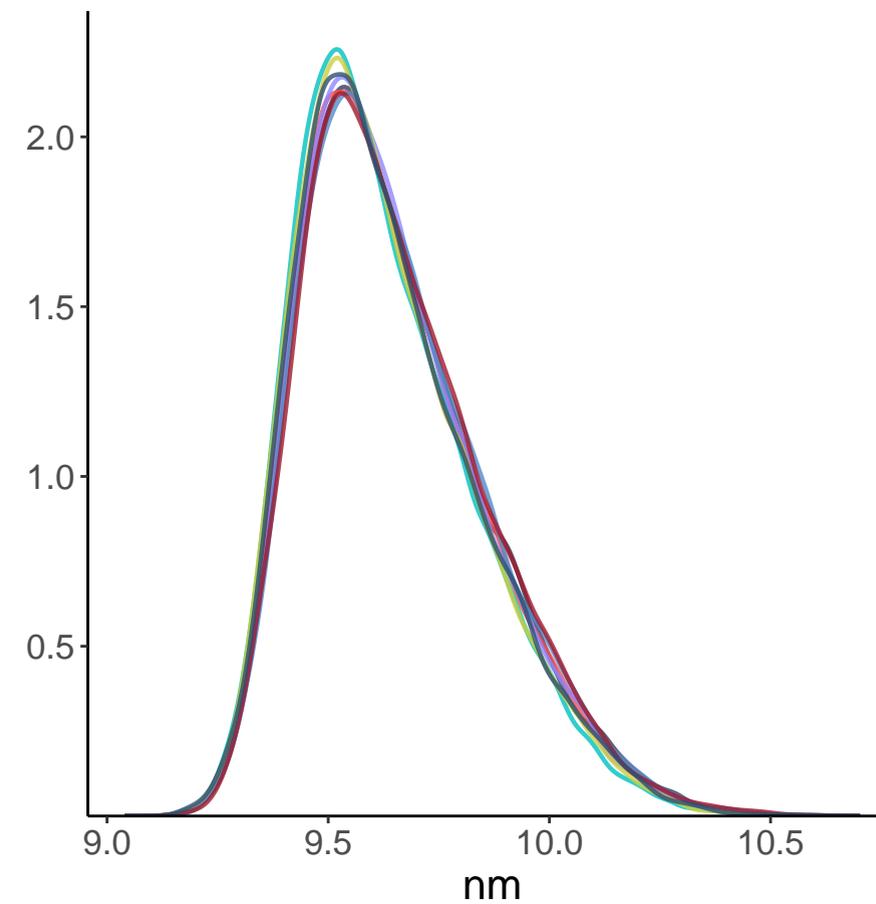
LDL_size

Spectrometer



HDL_size

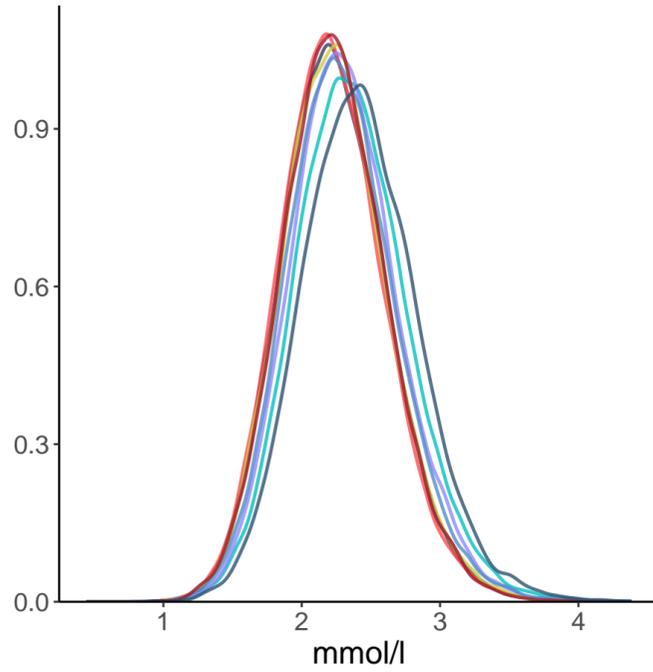
Spectrometer



Other lipids

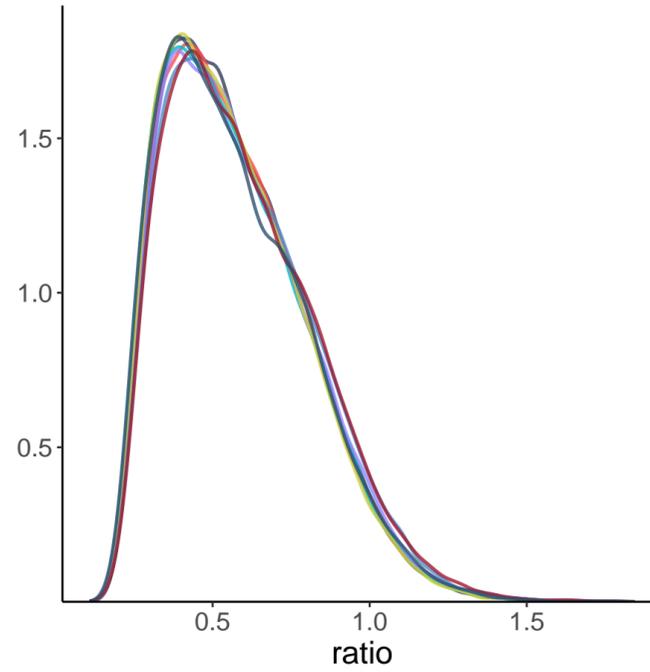
Phosphoglyc

Spectrometer



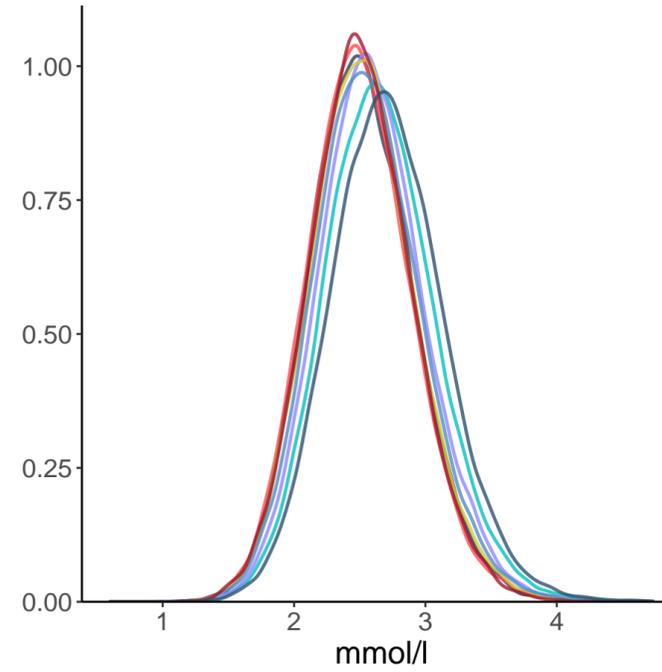
TG_by_PG

Spectrometer



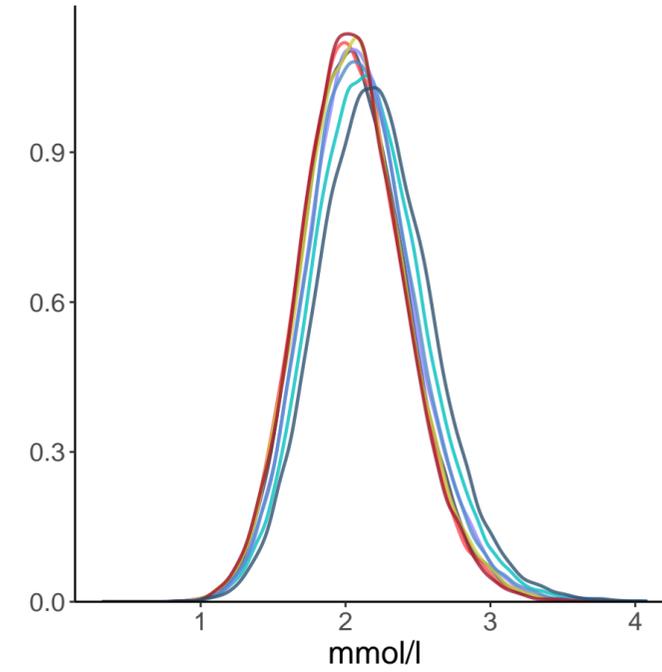
Cholines

Spectrometer



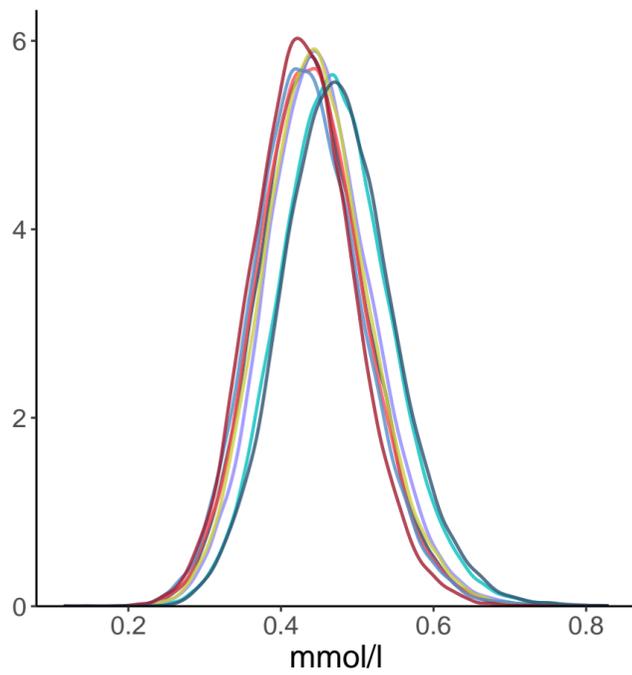
Phosphatidylc

Spectrometer



Sphingomyelins

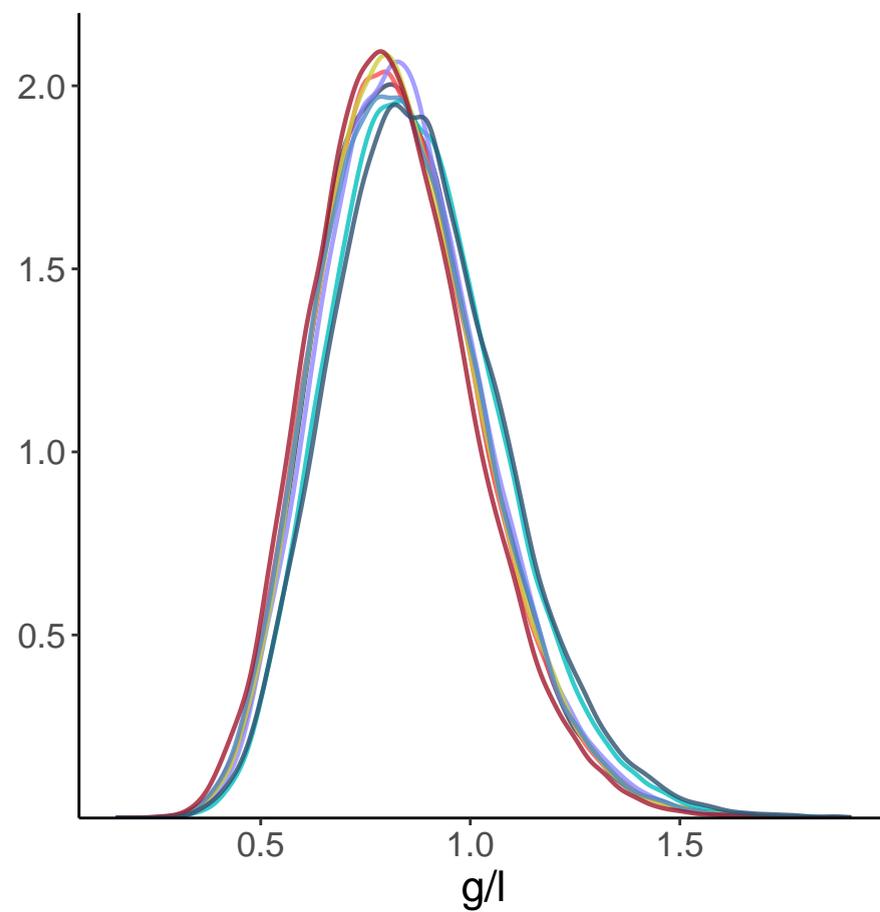
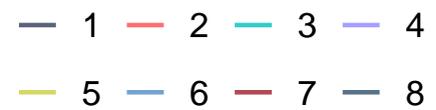
Spectrometer



Apolipoproteins

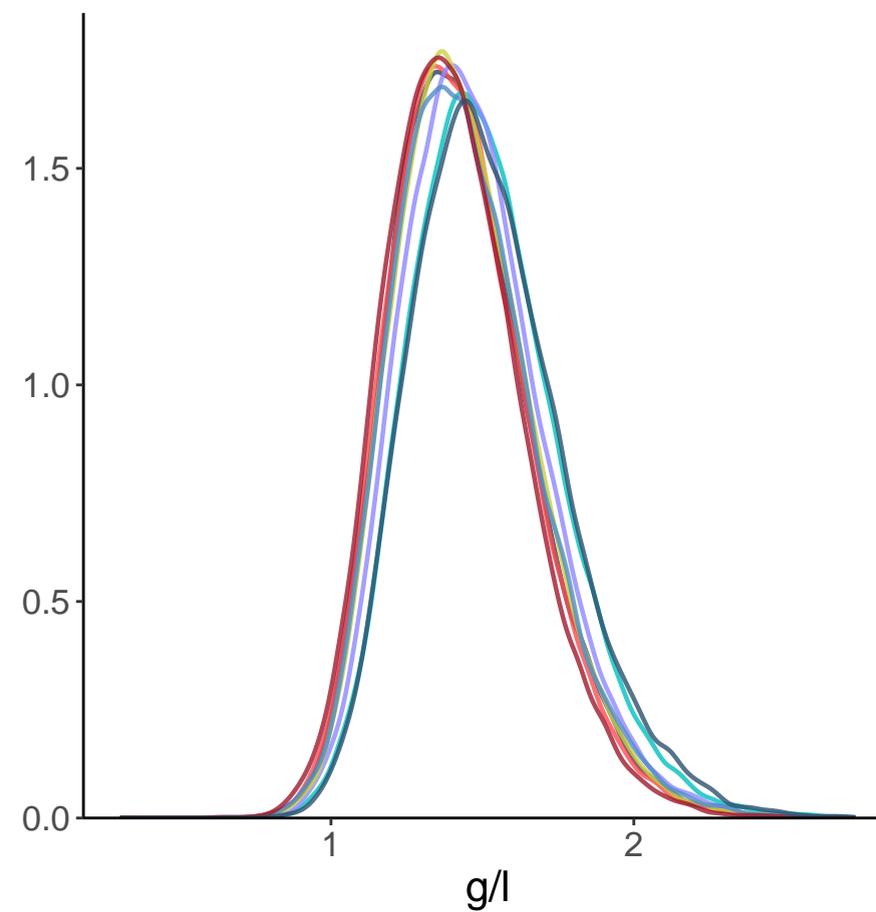
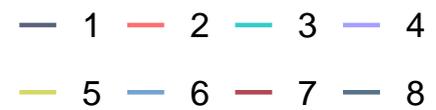
ApoB

Spectrometer



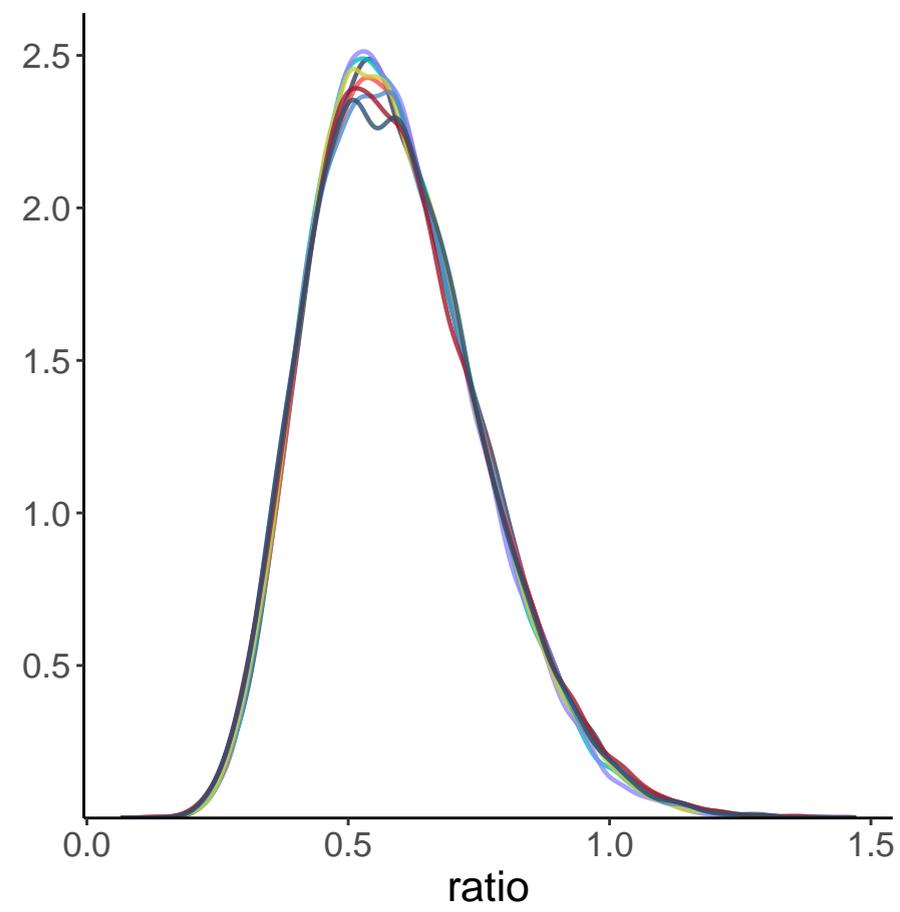
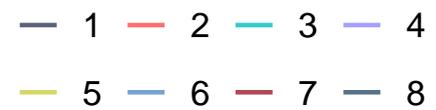
ApoA1

Spectrometer



ApoB_by_ApoA1

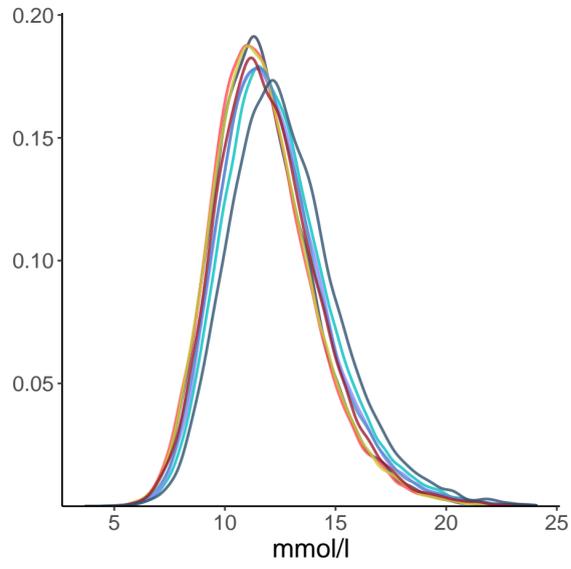
Spectrometer



Fatty acids

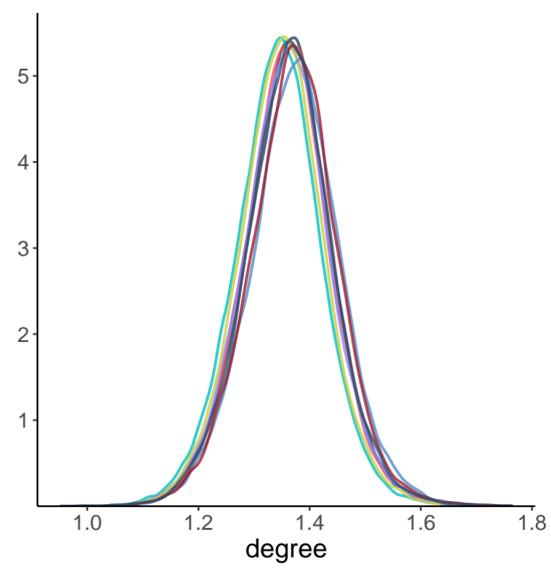
Total_FA

Spectrometer



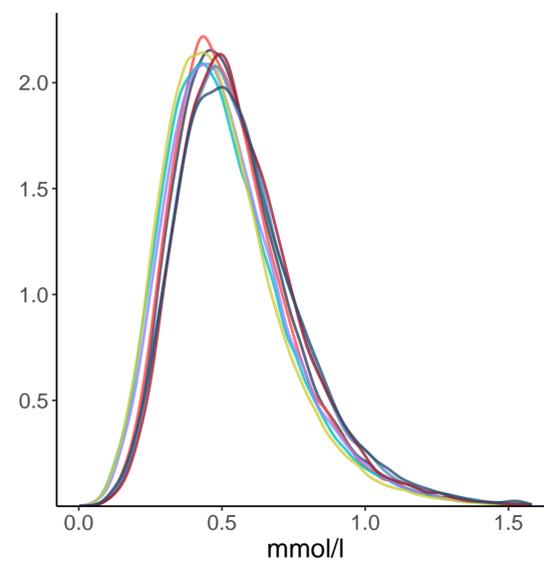
Unsaturation

Spectrometer



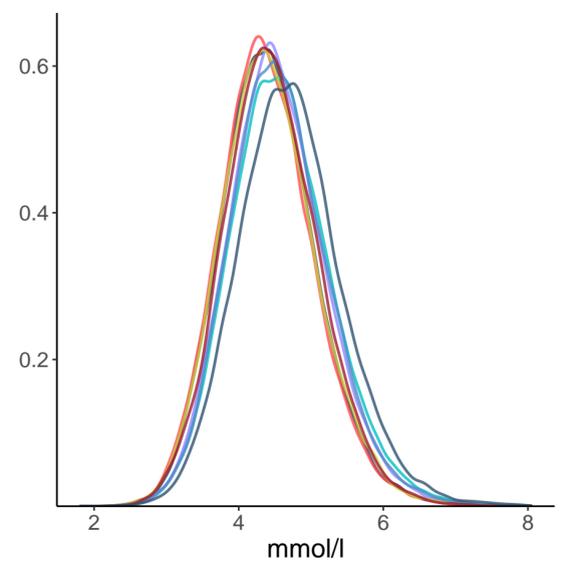
Omega_3

Spectrometer



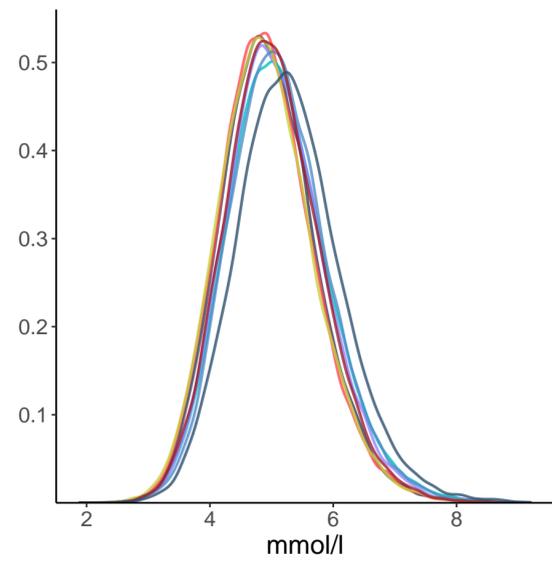
Omega_6

Spectrometer



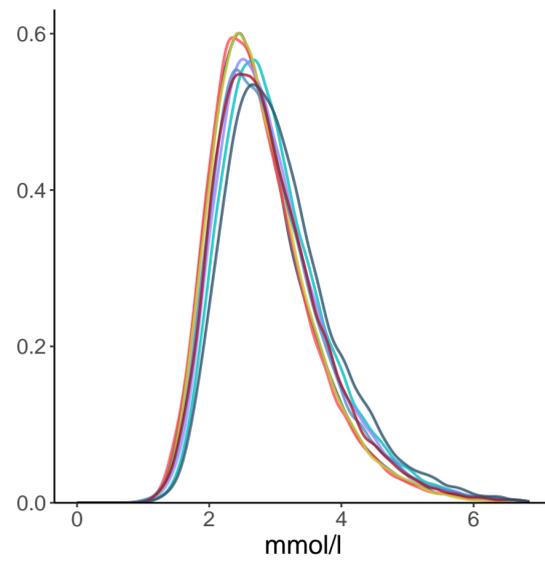
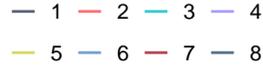
PUFA

Spectrometer



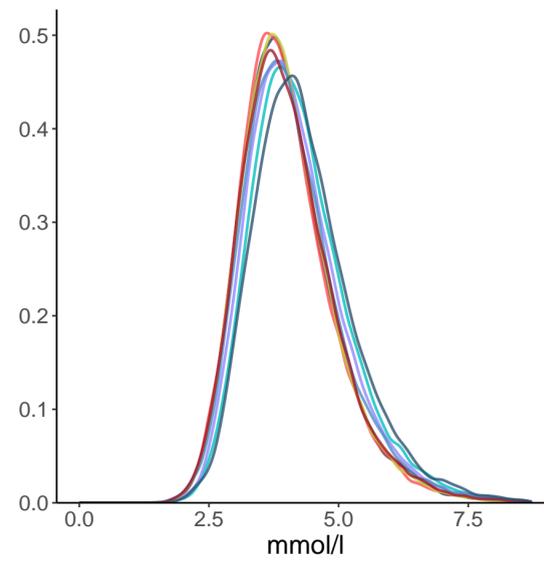
MUFA

Spectrometer



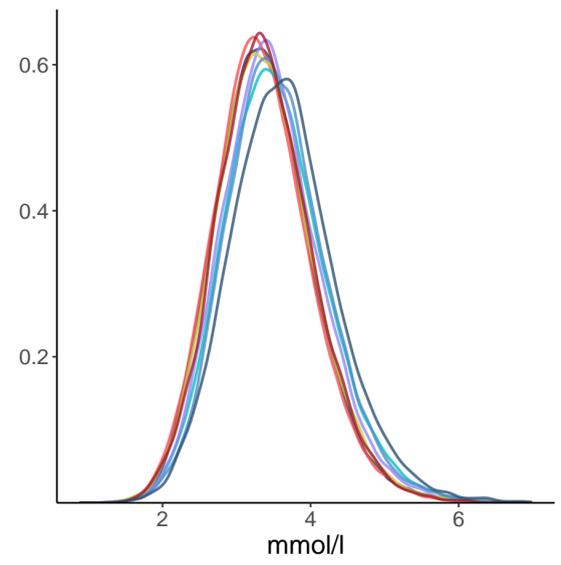
SFA

Spectrometer



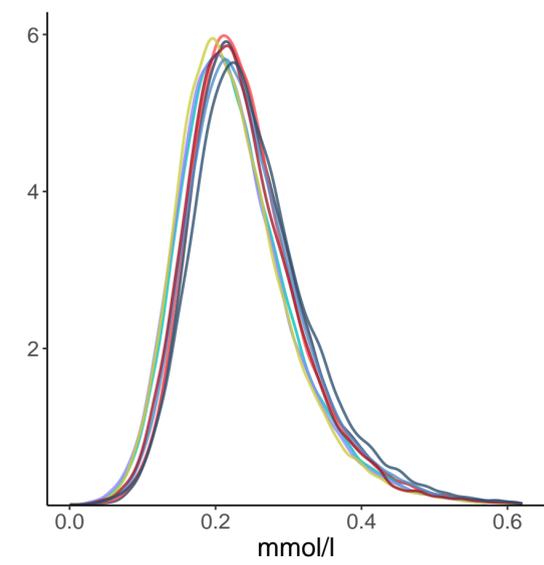
LA

Spectrometer



DHA

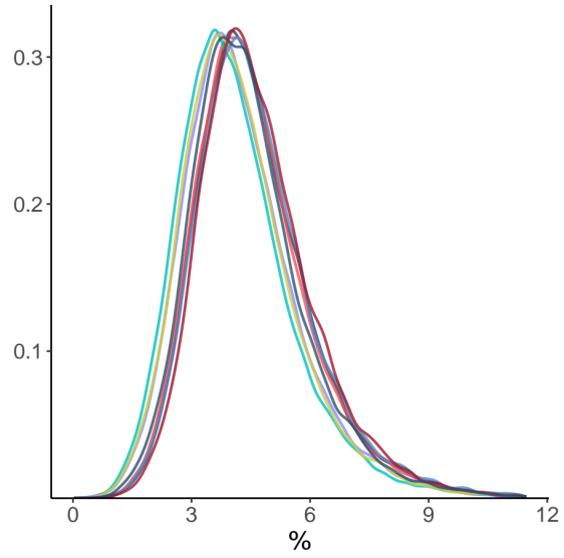
Spectrometer



Fatty acid ratios

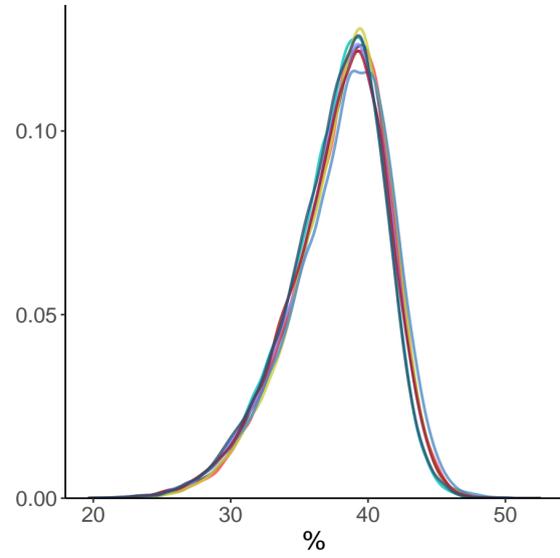
Omega_3_pct

Spectrometer



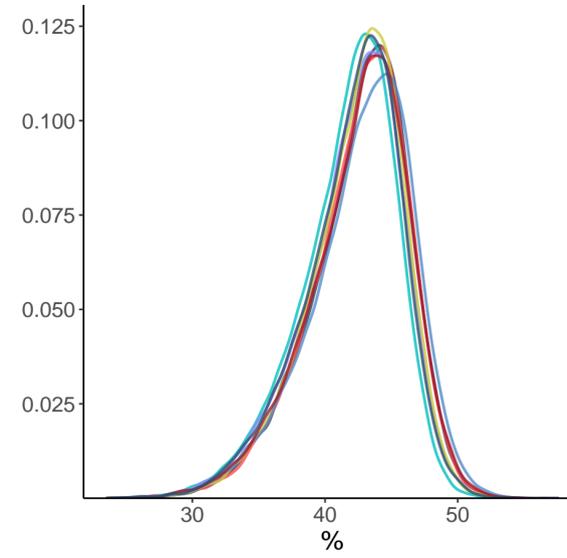
Omega_6_pct

Spectrometer



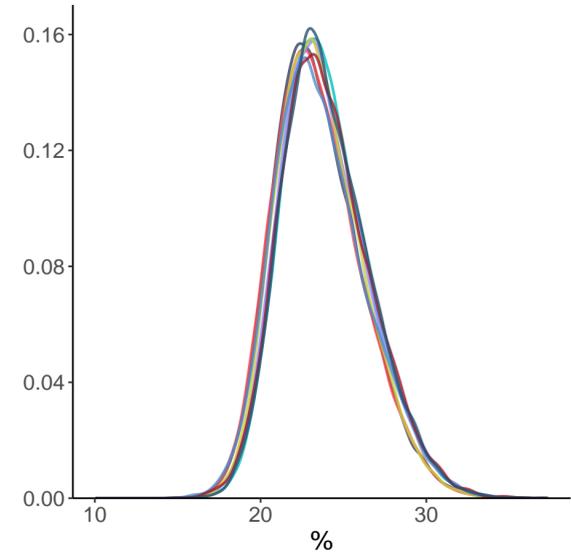
PUFA_pct

Spectrometer



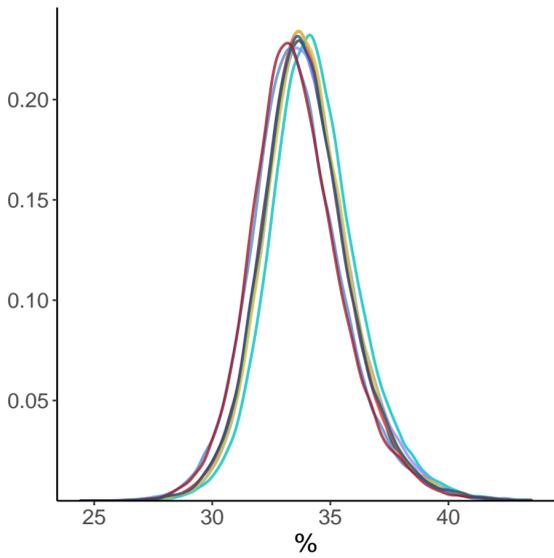
MUFA_pct

Spectrometer



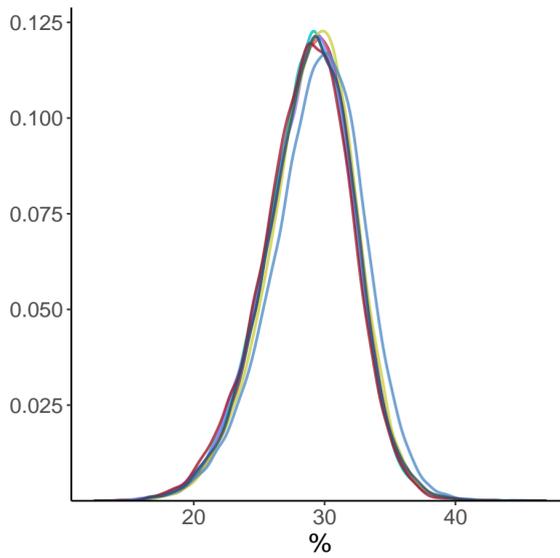
SFA_pct

Spectrometer



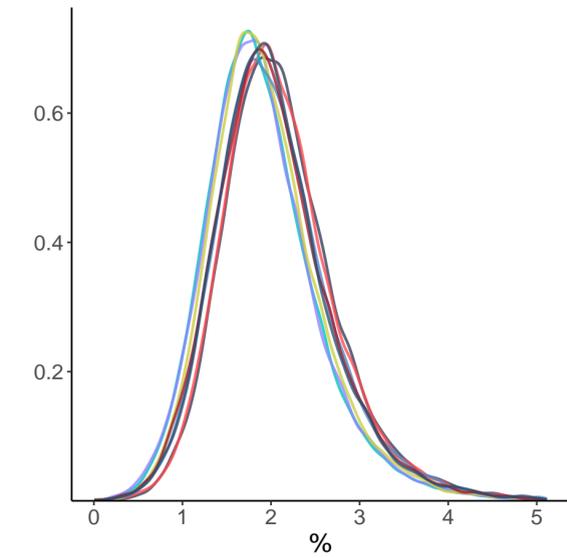
LA_pct

Spectrometer



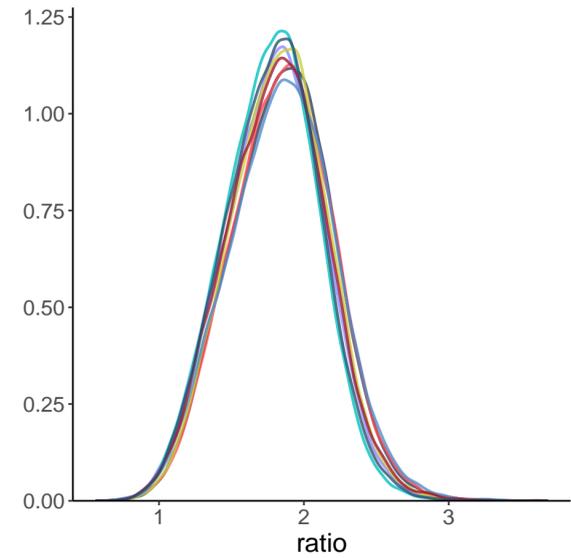
DHA_pct

Spectrometer



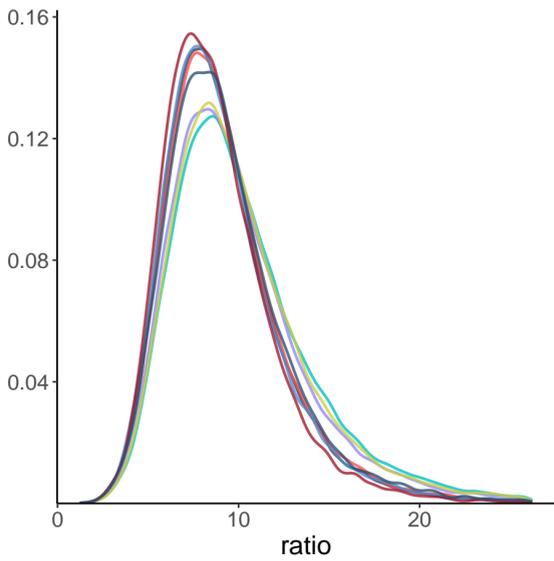
PUFA_by_MUFA

Spectrometer



Omega_6_by_Omega_3

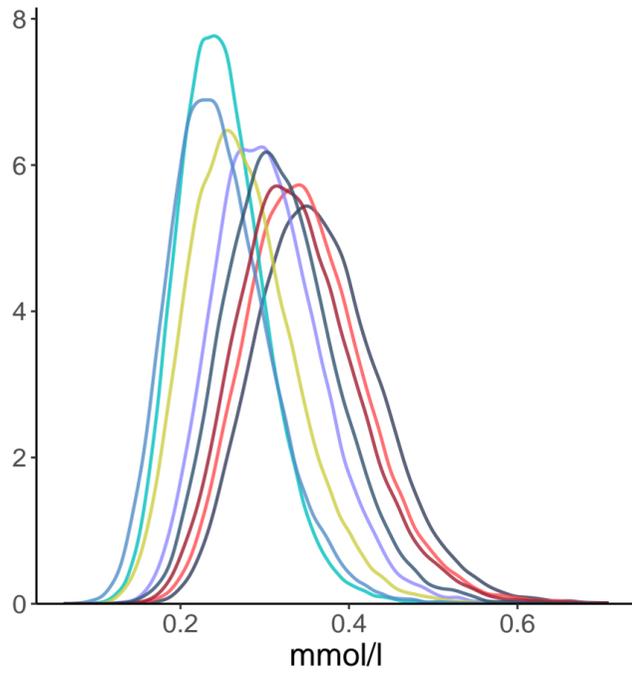
Spectrometer



Amino acids

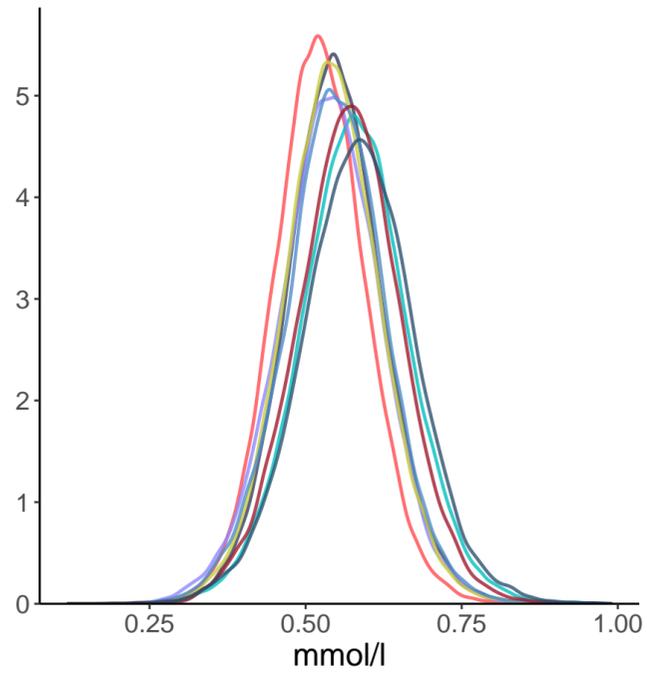
Ala

Spectrometer



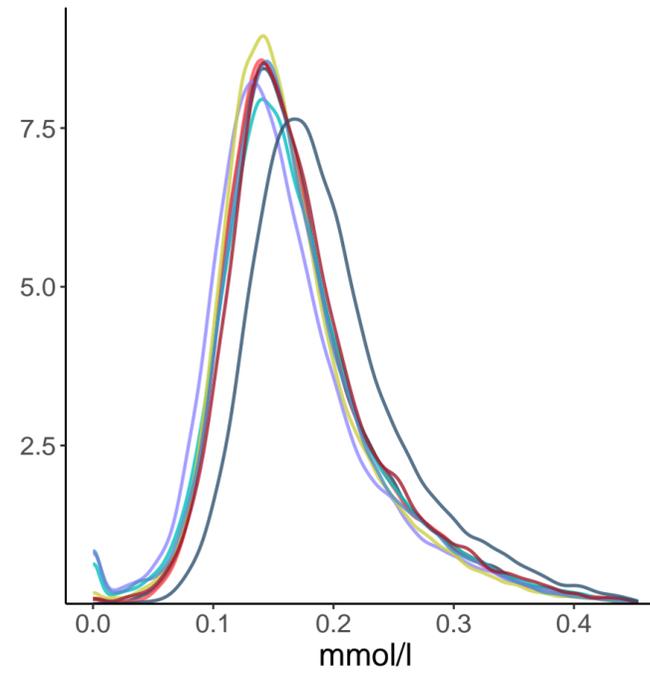
Gln

Spectrometer



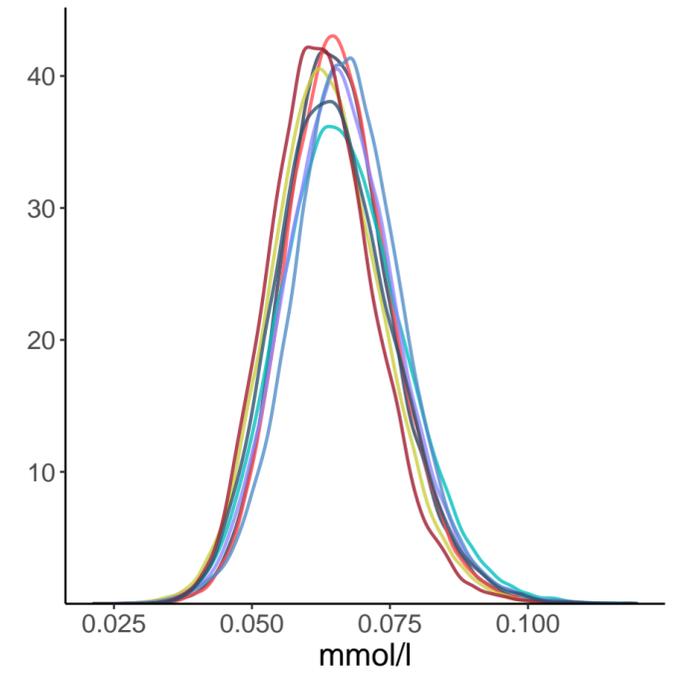
Gly

Spectrometer



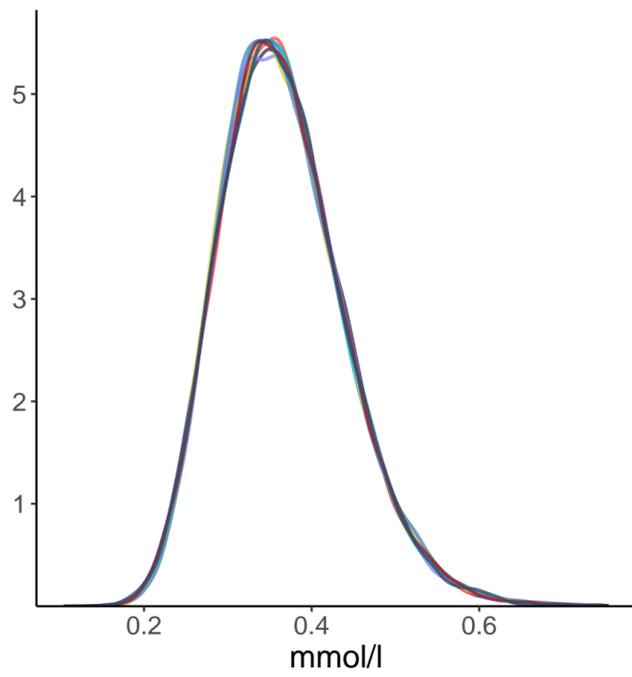
His

Spectrometer

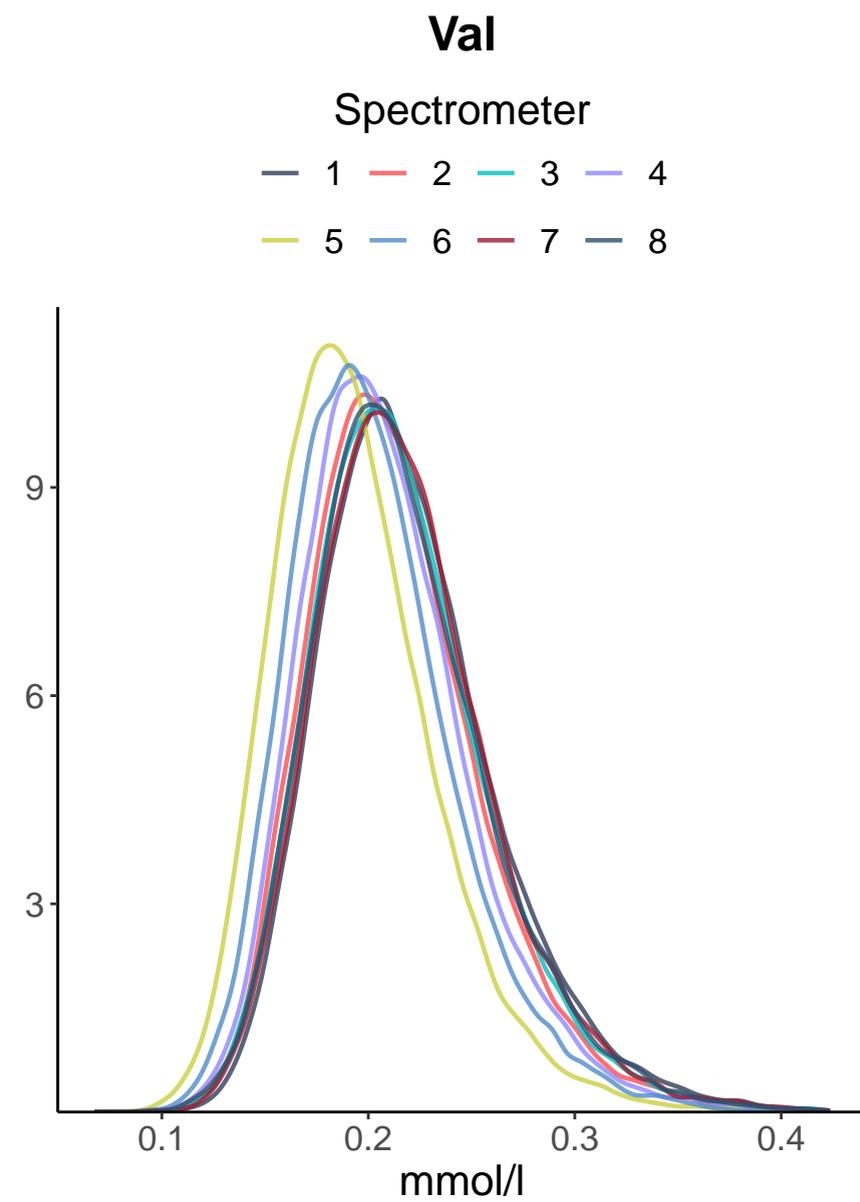
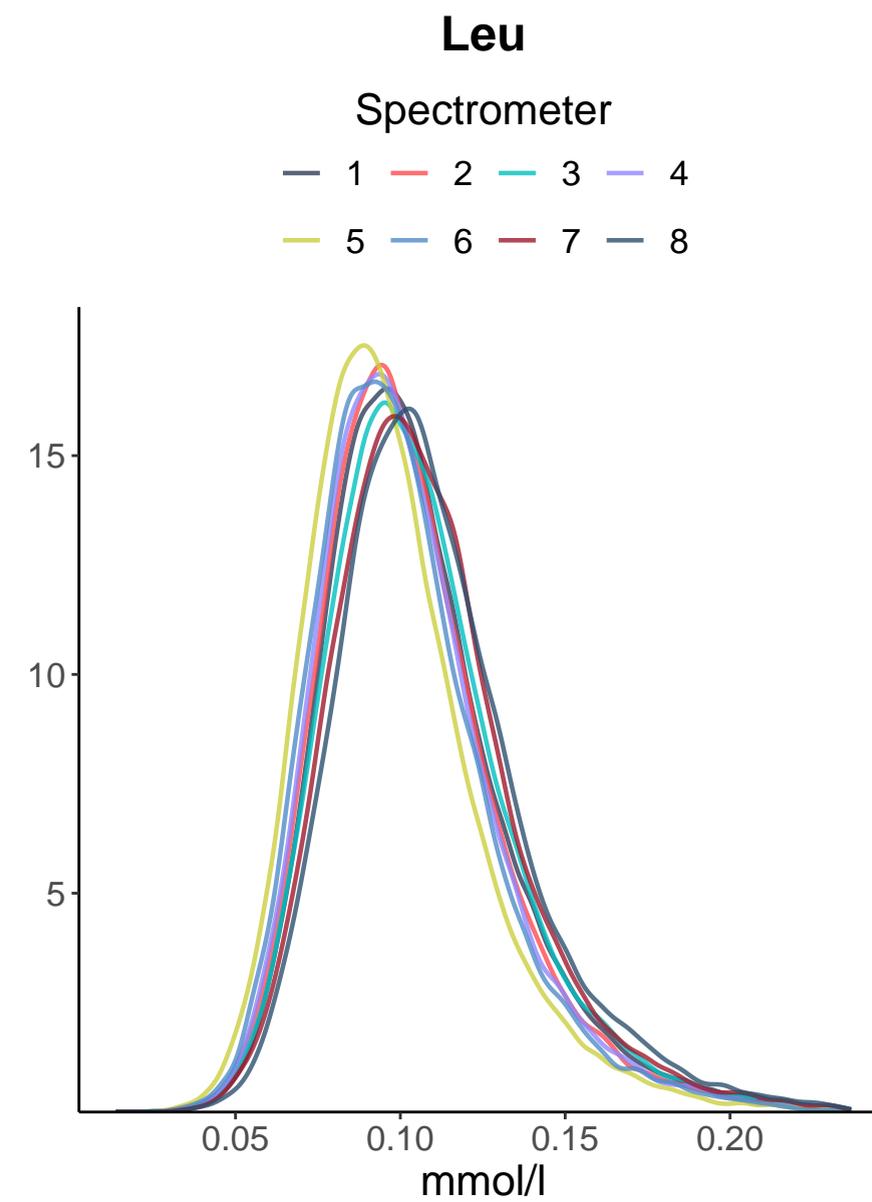
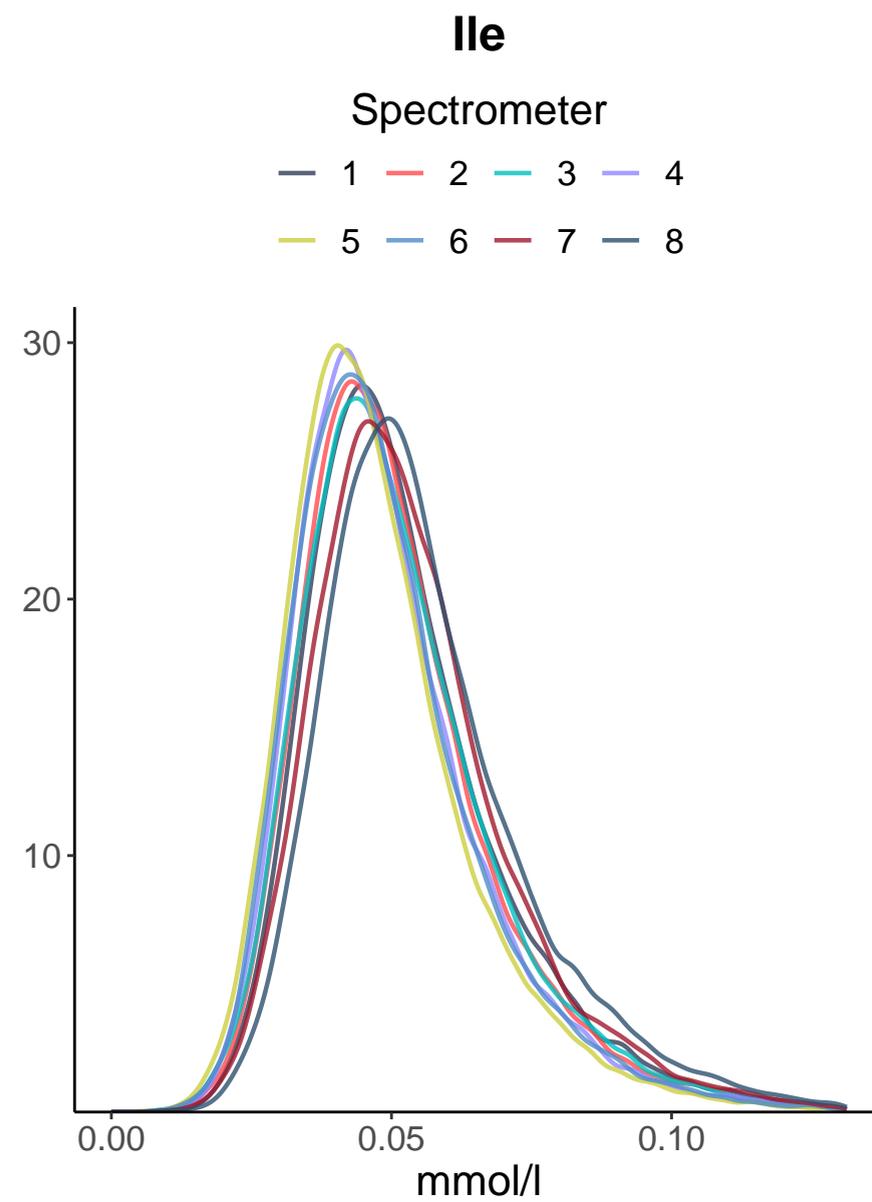
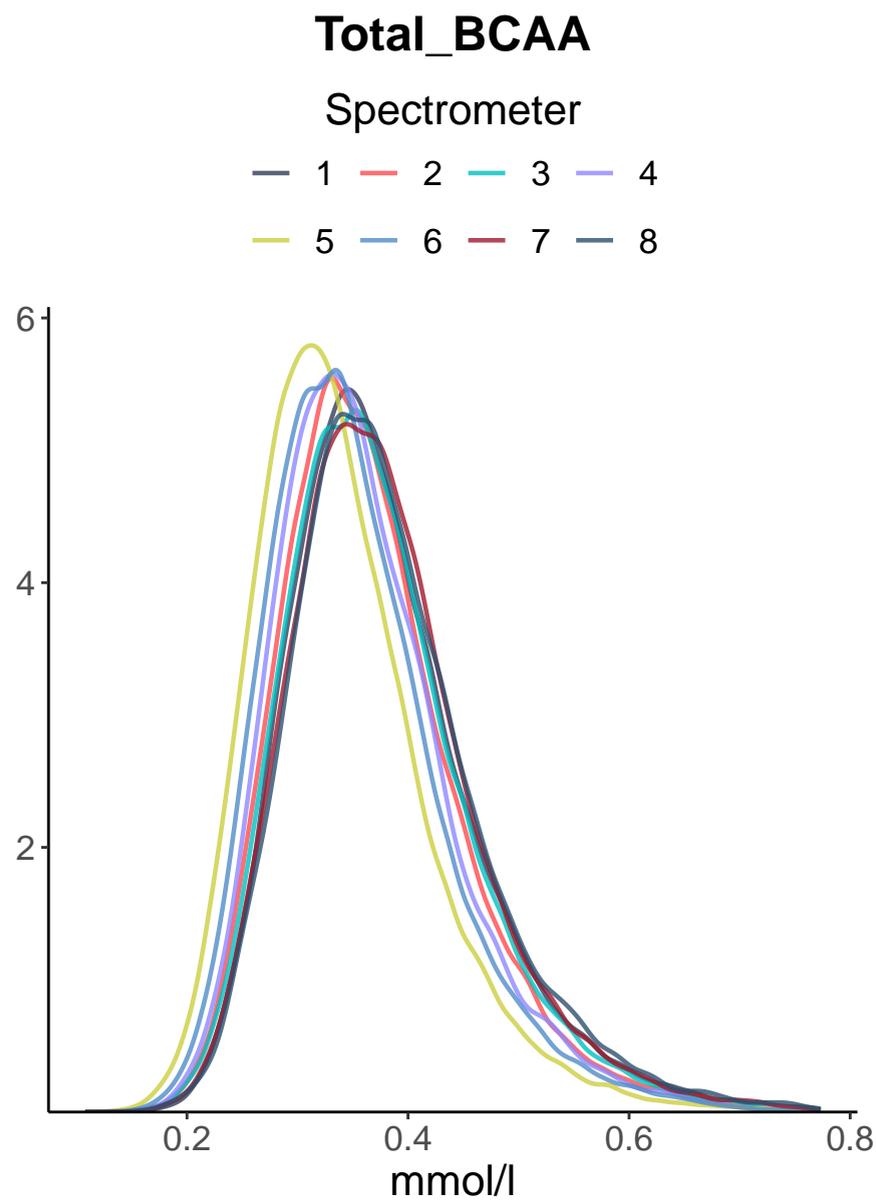


Ala_corrected

Spectrometer



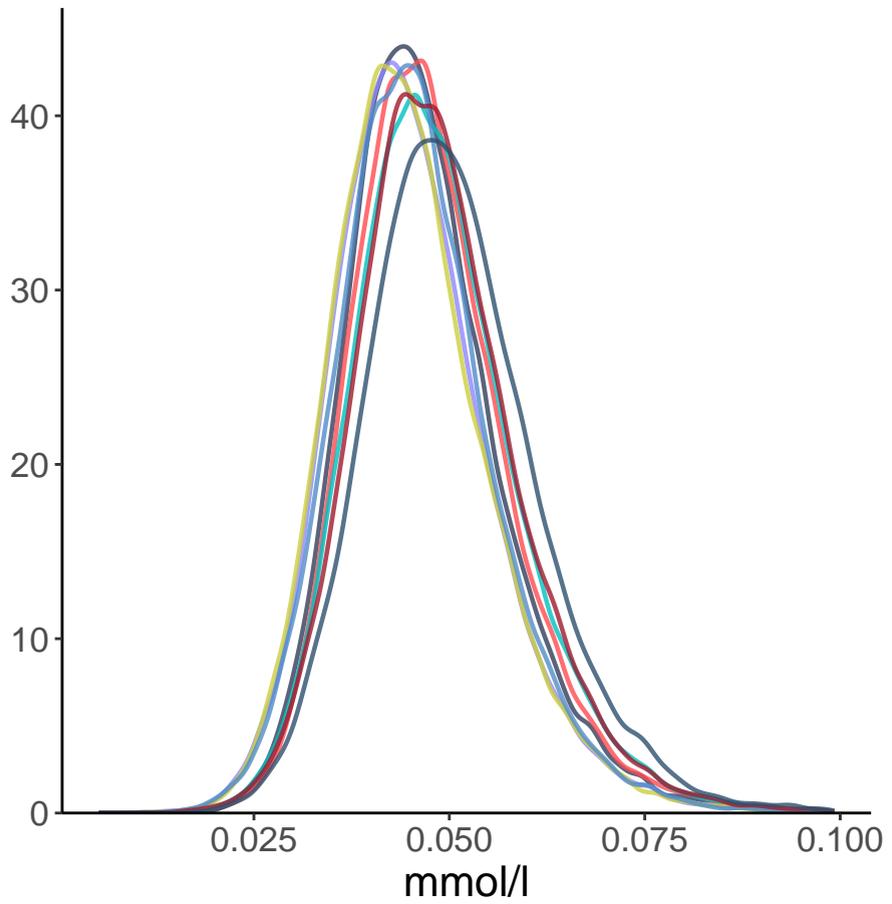
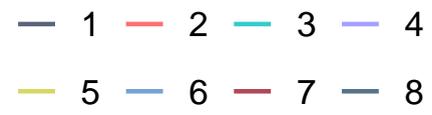
Branched-chain amino acids



Aromatic amino acids

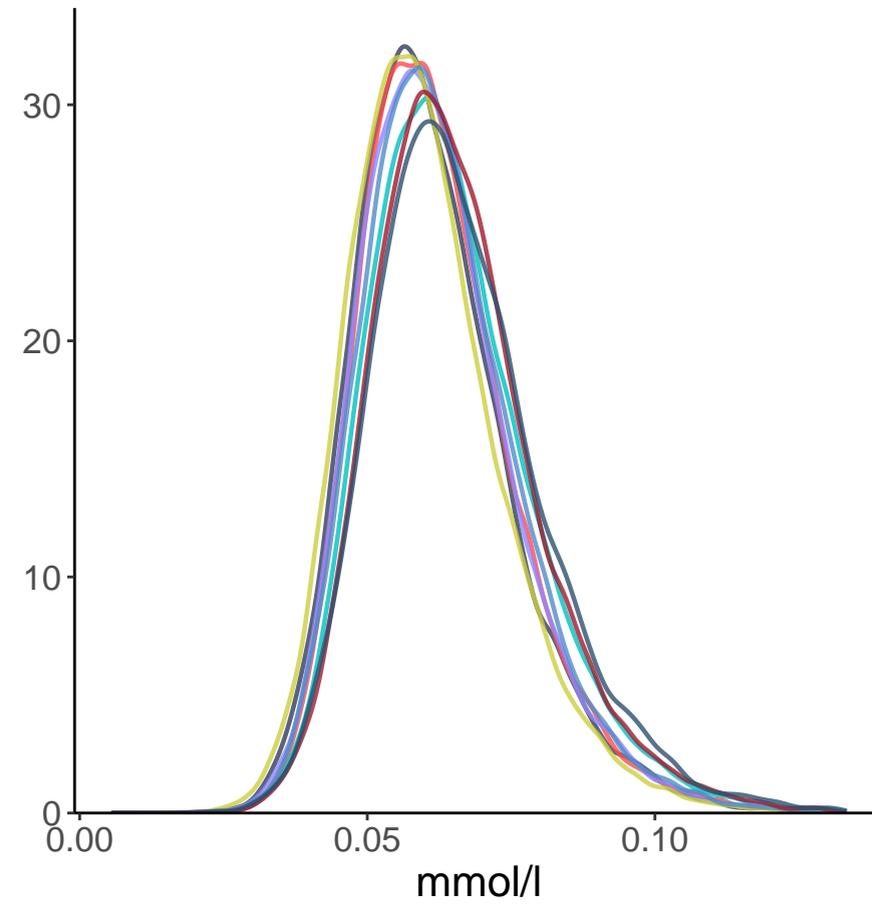
Phe

Spectrometer



Tyr

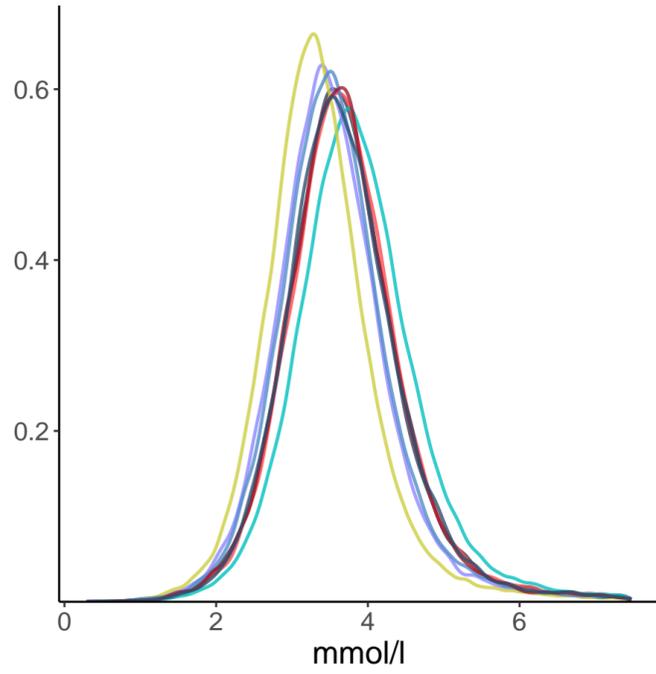
Spectrometer



Glycolysis related metabolites

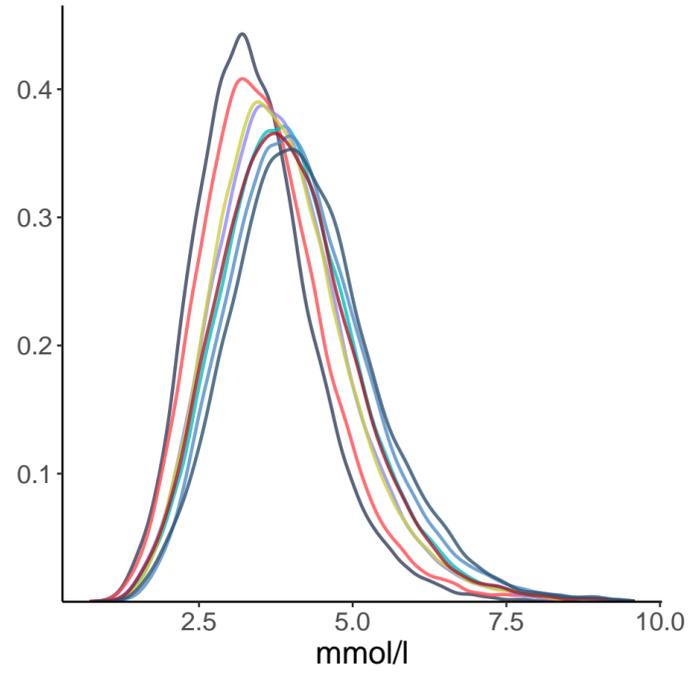
Glucose

Spectrometer



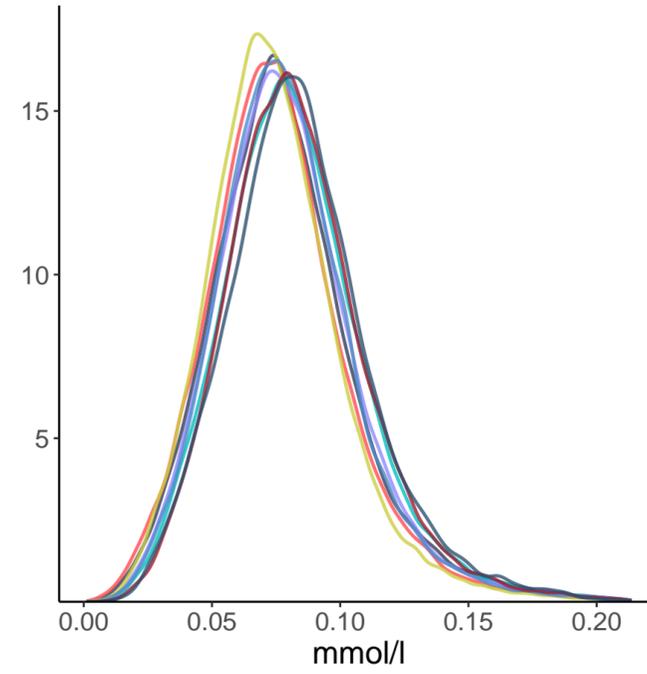
Lactate

Spectrometer



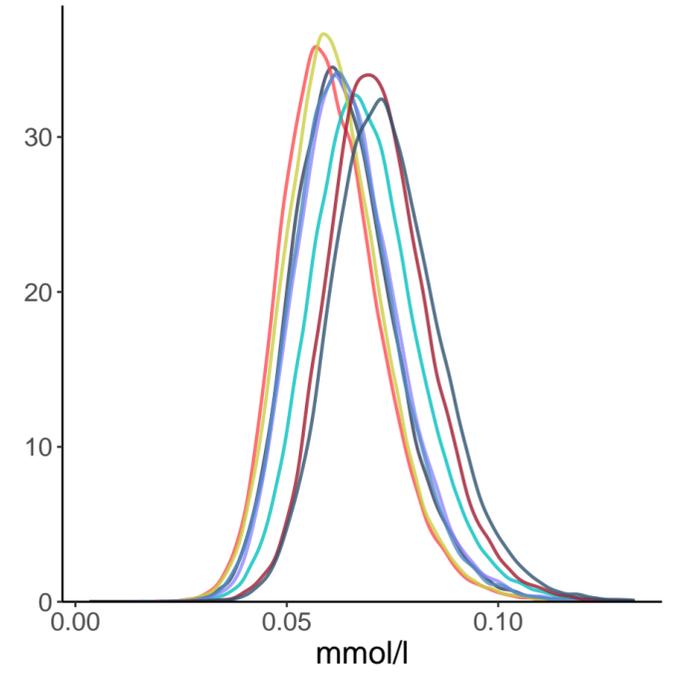
Pyruvate

Spectrometer



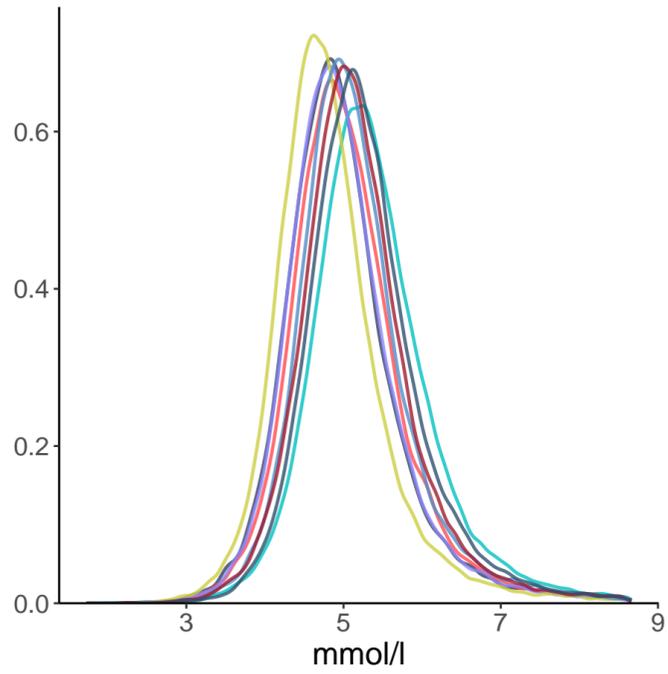
Citrate

Spectrometer



Glucose_Lactate

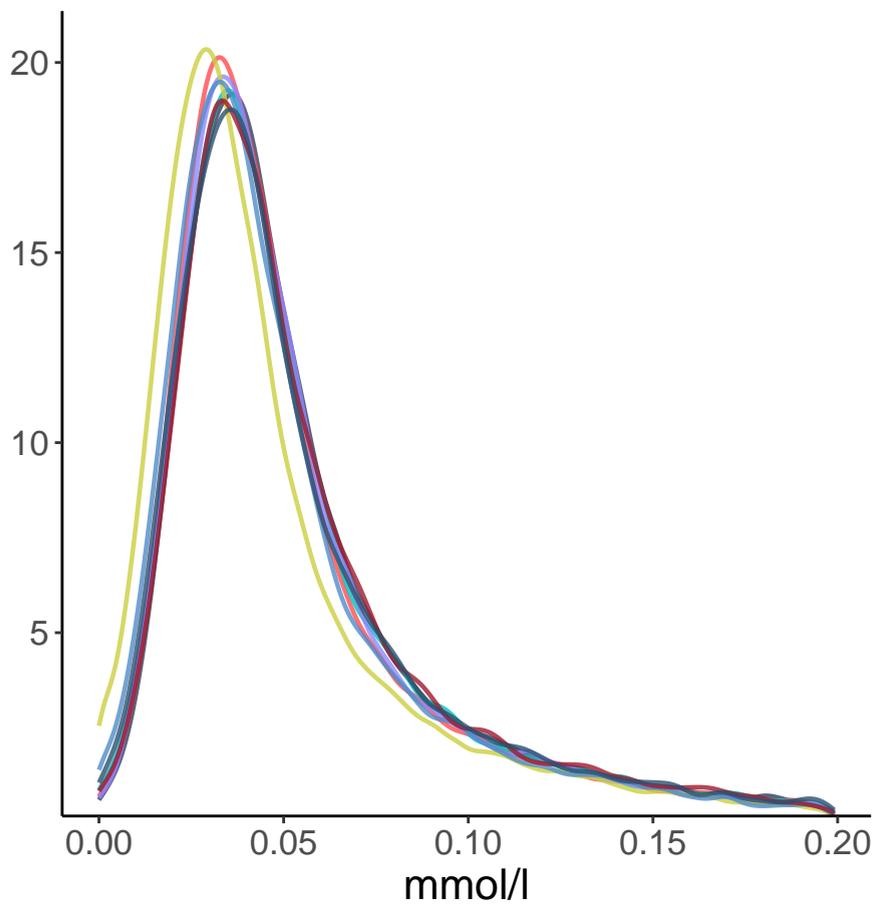
Spectrometer



Ketone bodies

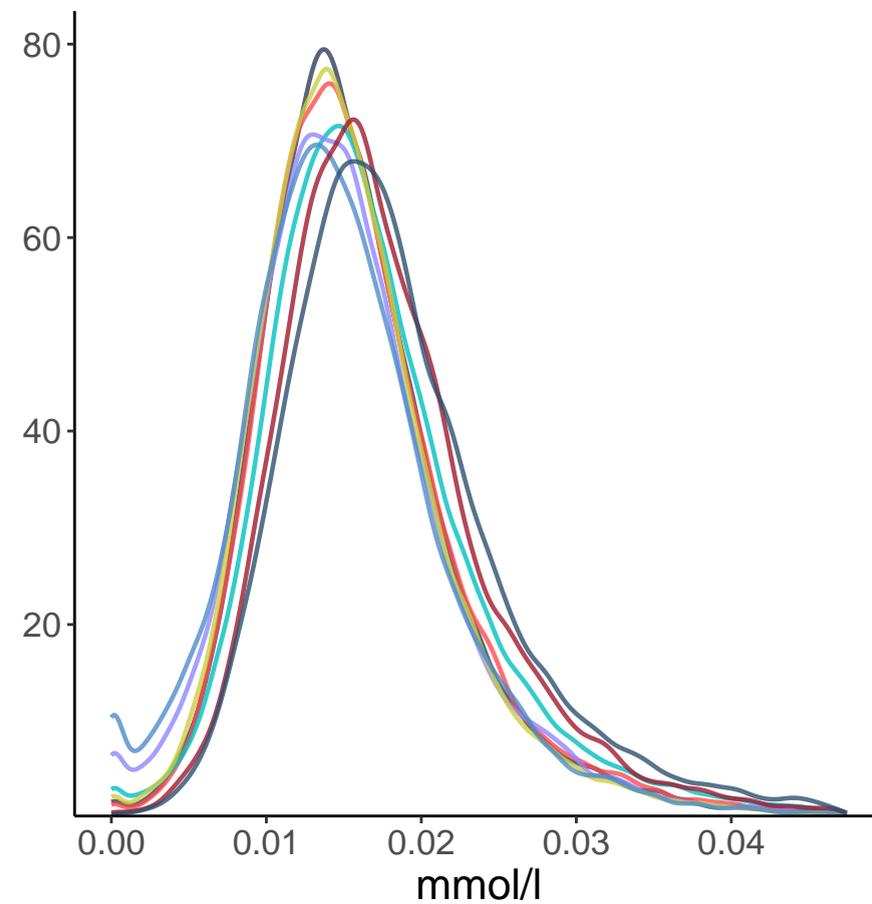
bOHbutyrate

Spectrometer



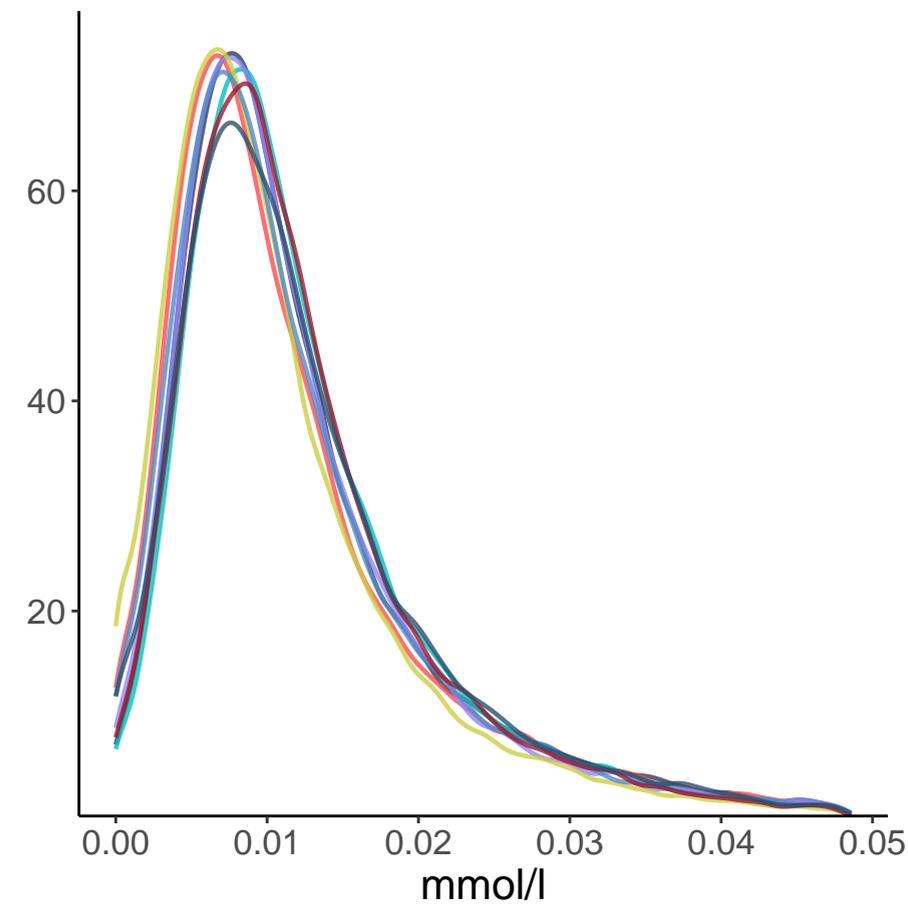
Acetate

Spectrometer



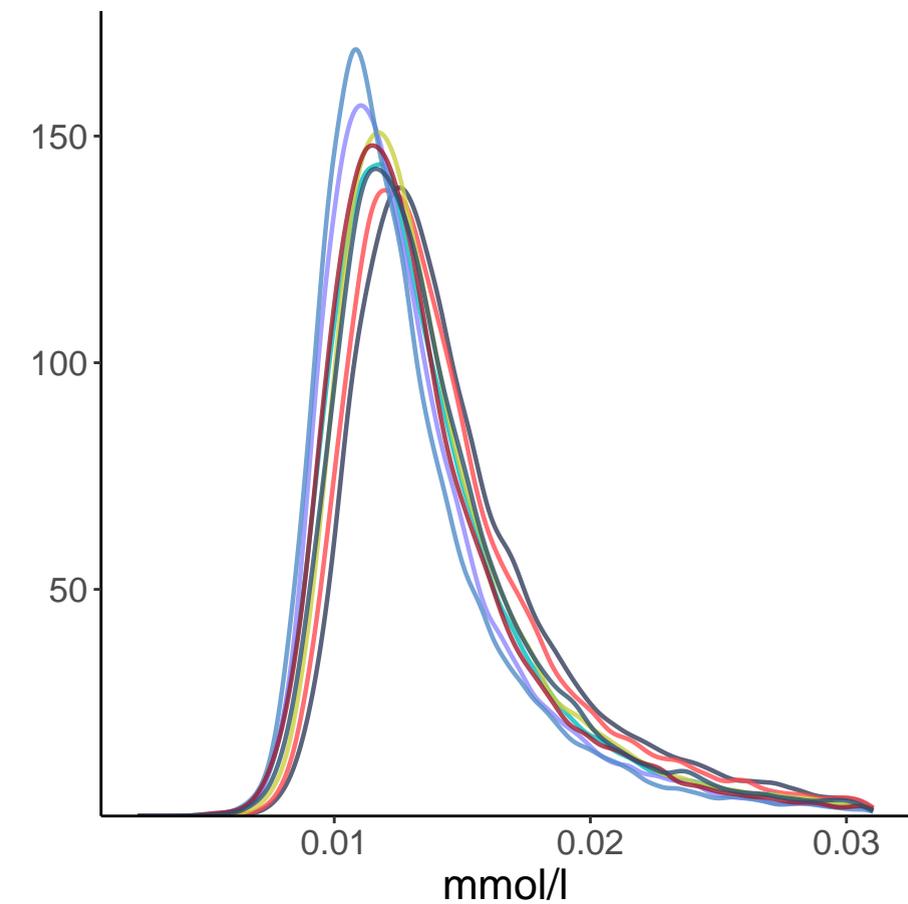
Acetoacetate

Spectrometer



Acetone

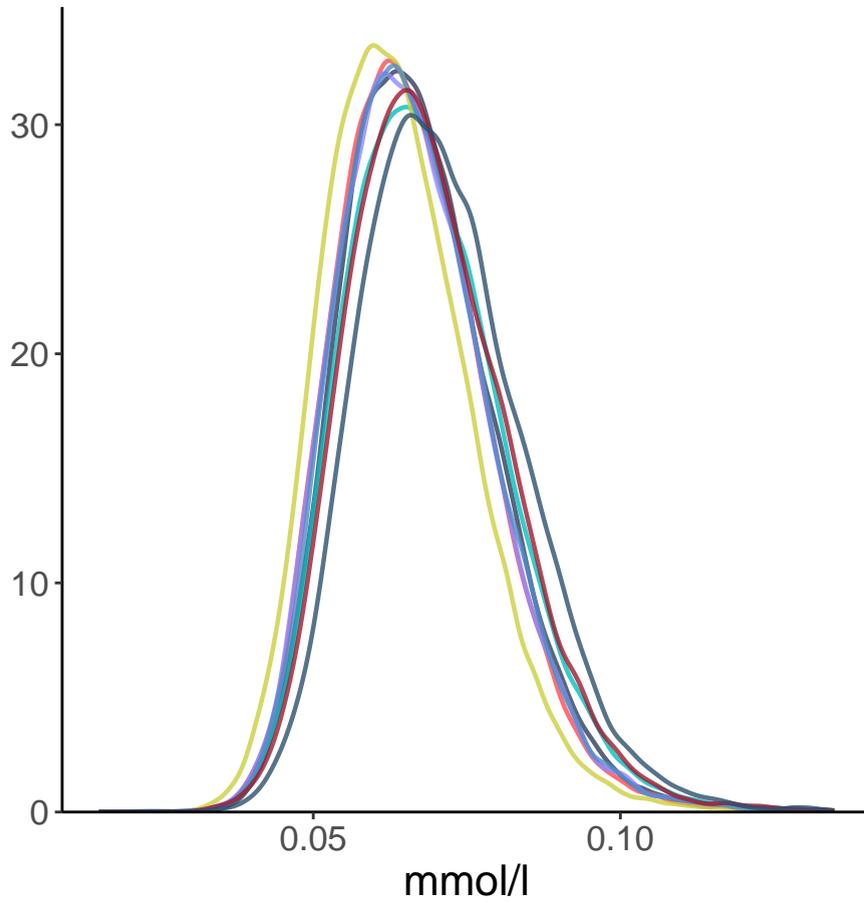
Spectrometer



Fluid balance

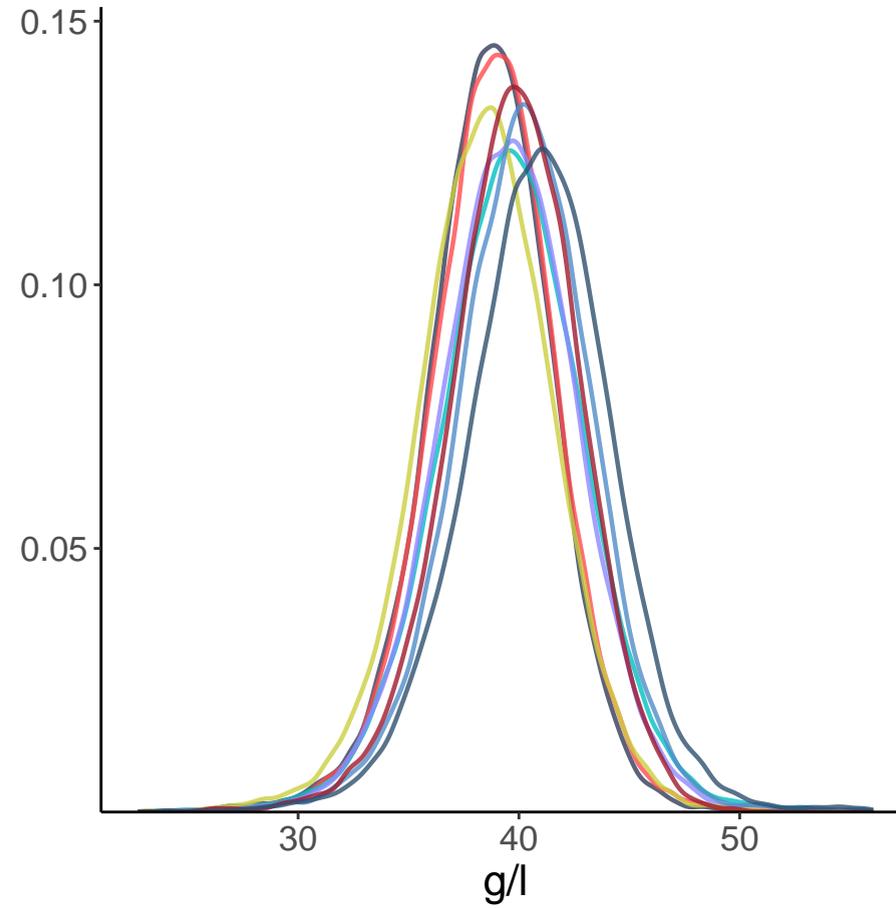
Creatinine

Spectrometer



Albumin

Spectrometer

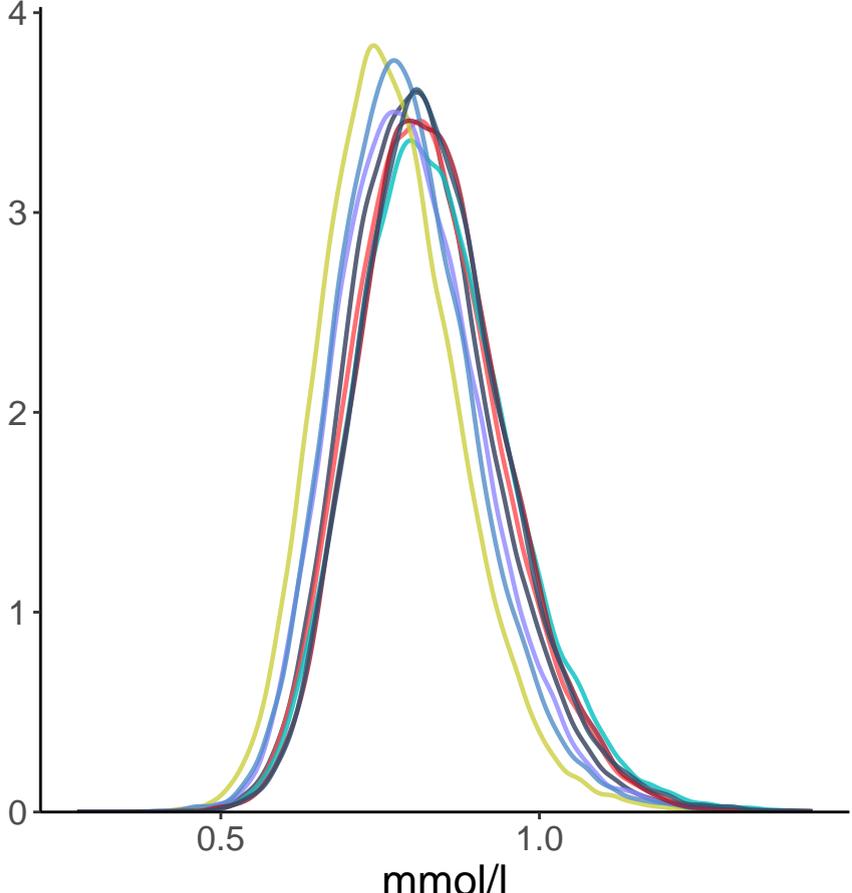


Inflammation

GlycA

Spectrometer

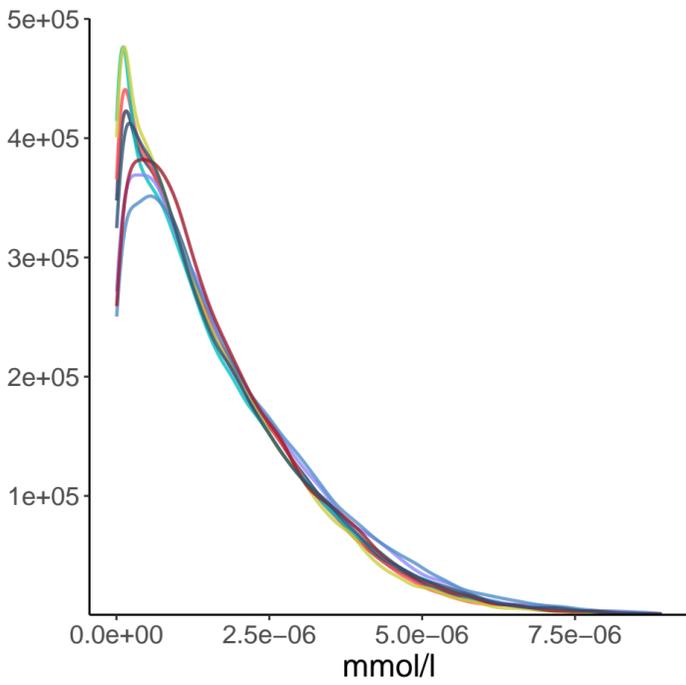
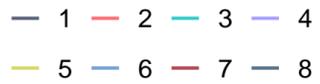
- 1 2 3 4
- 5 6 7 8



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

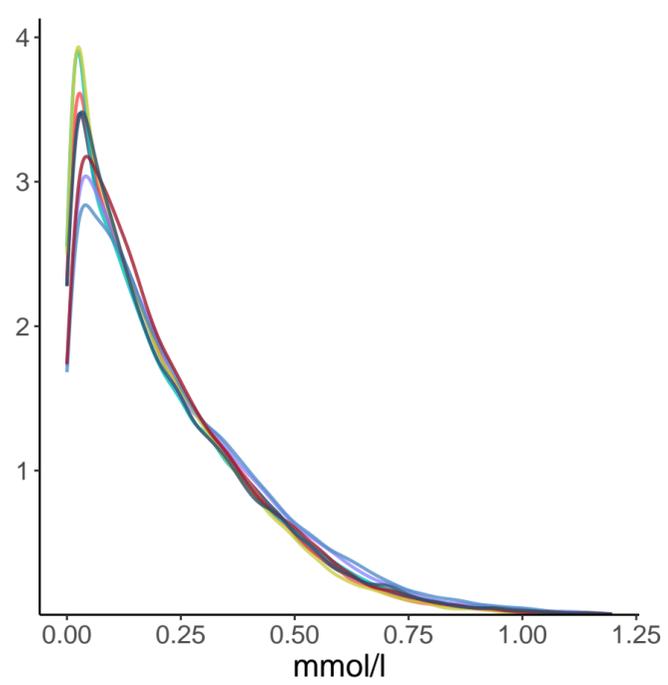
XXL_VLDL_P

Spectrometer



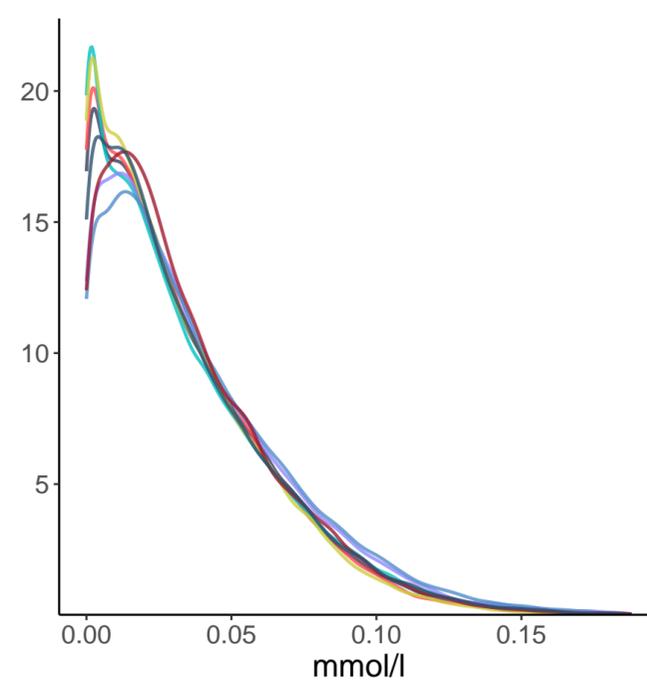
XXL_VLDL_L

Spectrometer



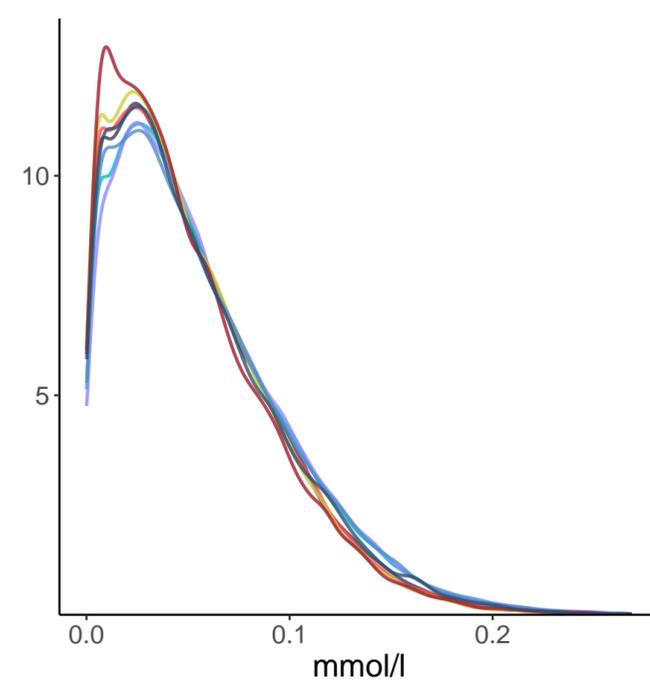
XXL_VLDL_PL

Spectrometer



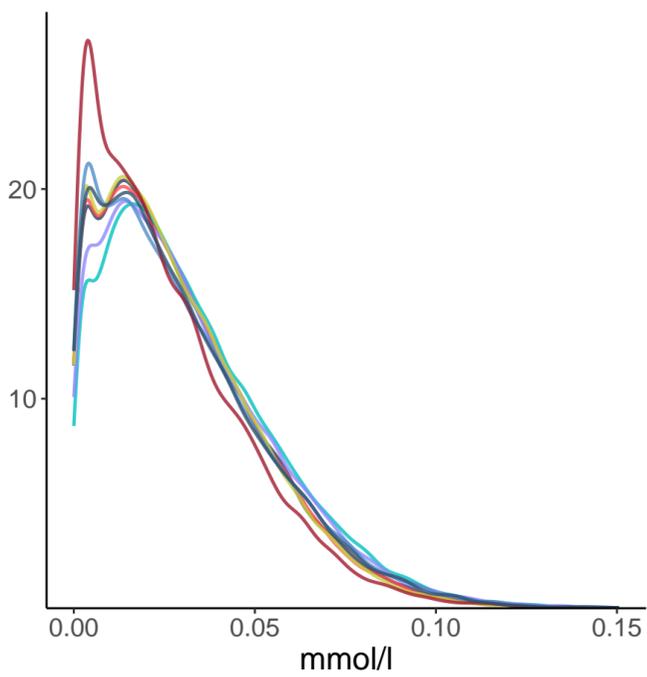
XXL_VLDL_C

Spectrometer



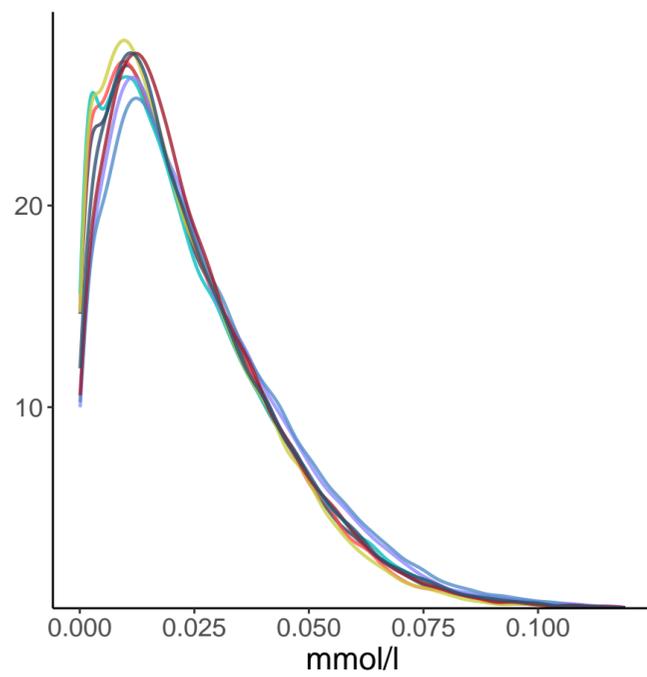
XXL_VLDL_CE

Spectrometer



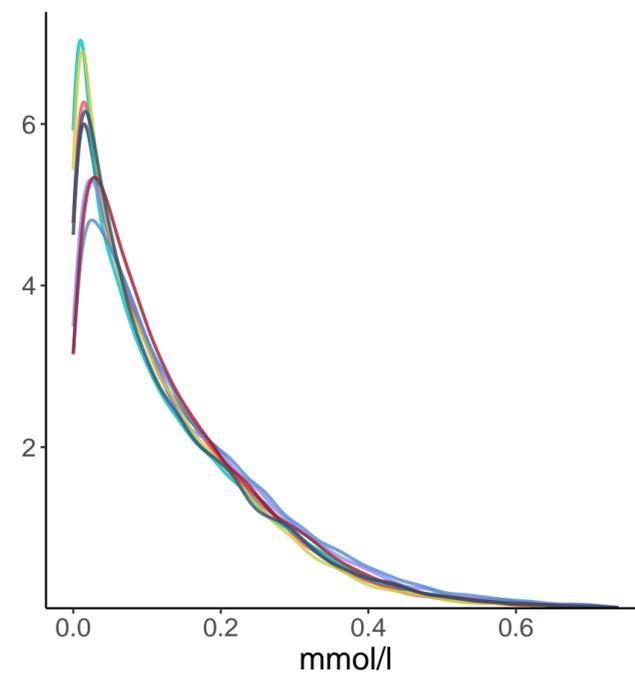
XXL_VLDL_FC

Spectrometer



XXL_VLDL_TG

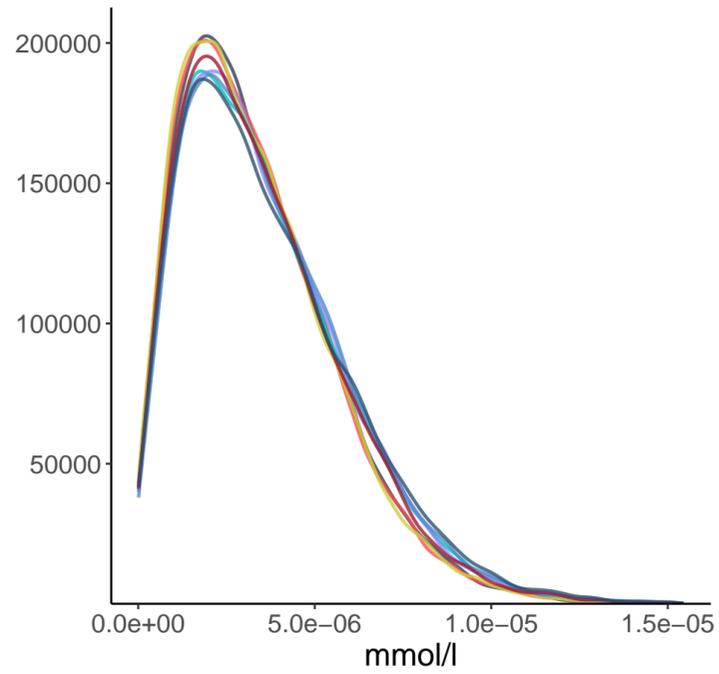
Spectrometer



Very large VLDL (average diameter 64 nm)

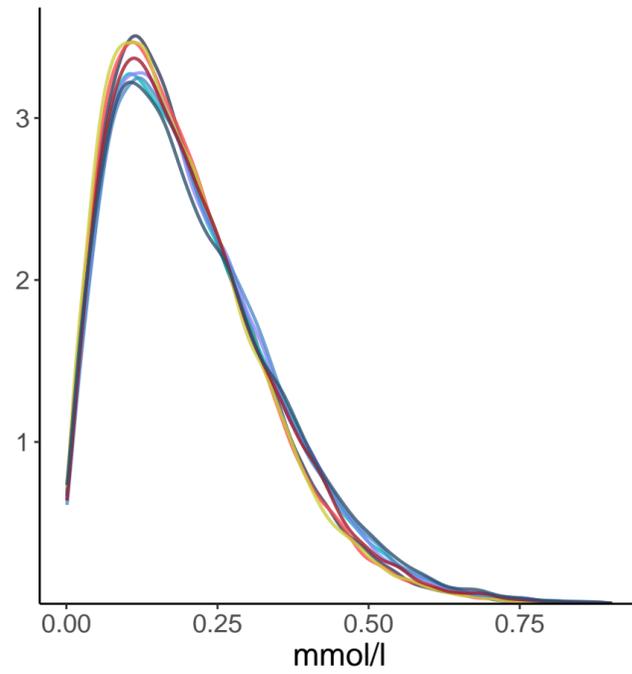
XL_VLDL_P

Spectrometer



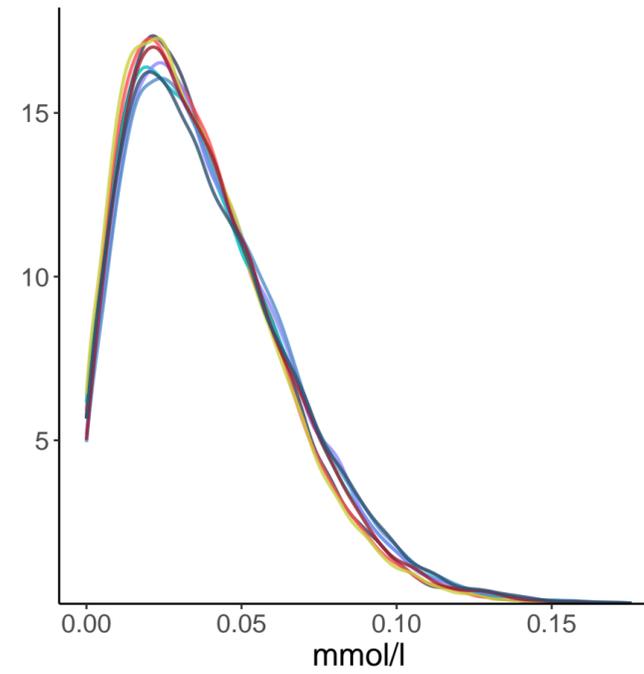
XL_VLDL_L

Spectrometer



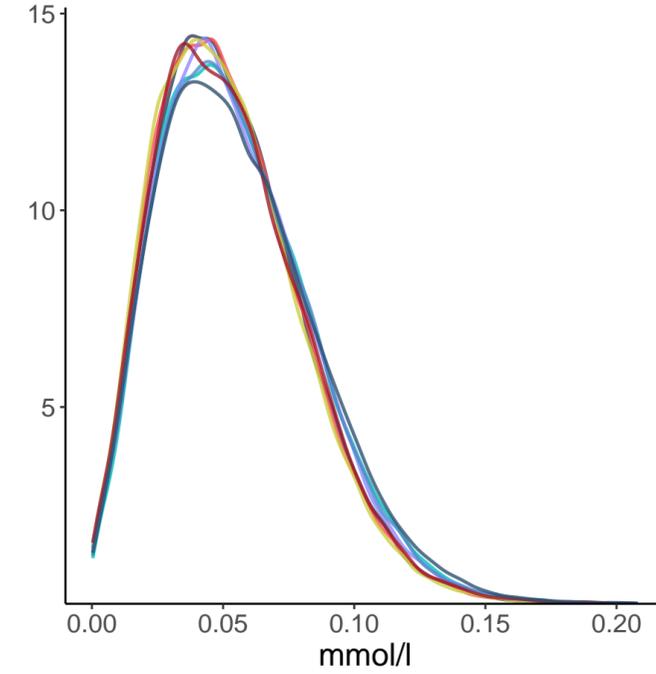
XL_VLDL_PL

Spectrometer



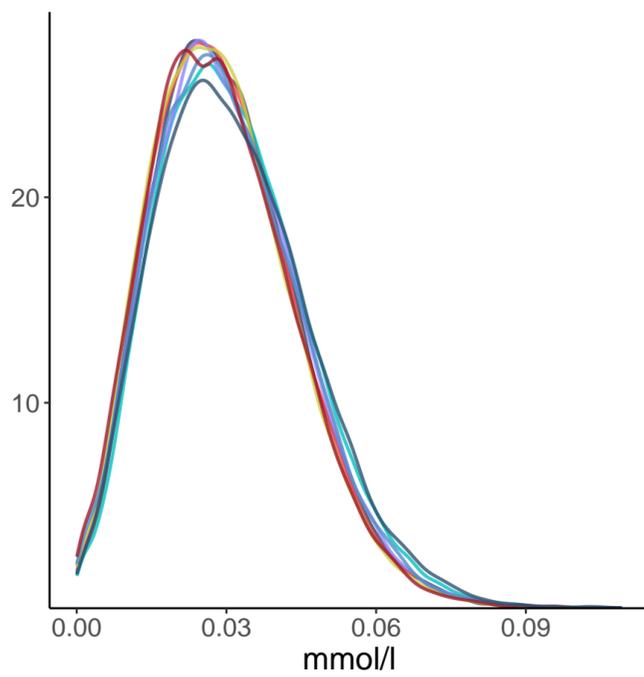
XL_VLDL_C

Spectrometer



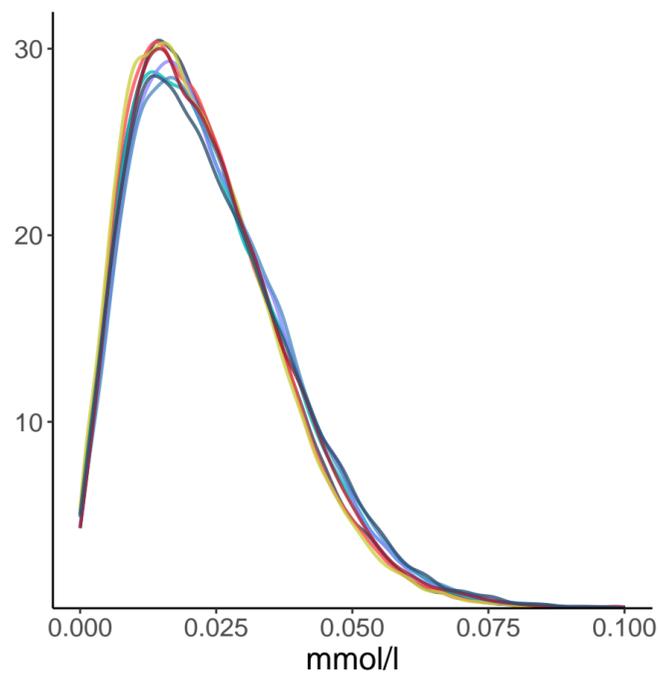
XL_VLDL_CE

Spectrometer



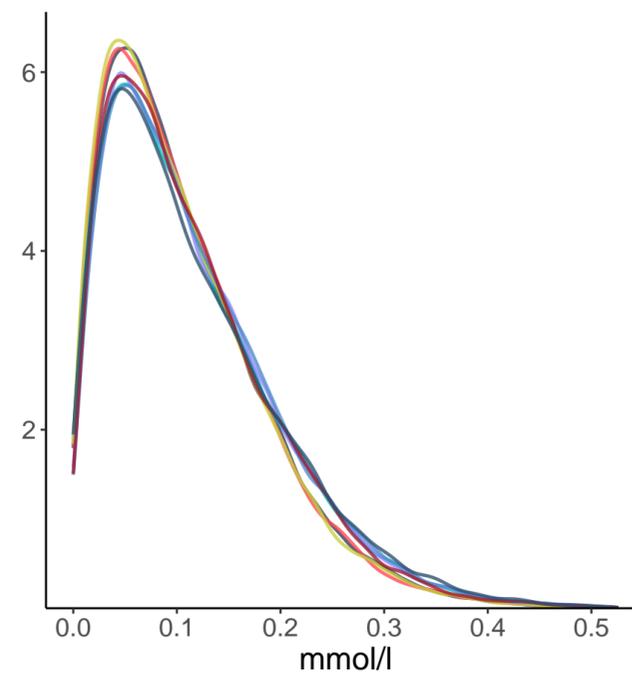
XL_VLDL_FC

Spectrometer



XL_VLDL_TG

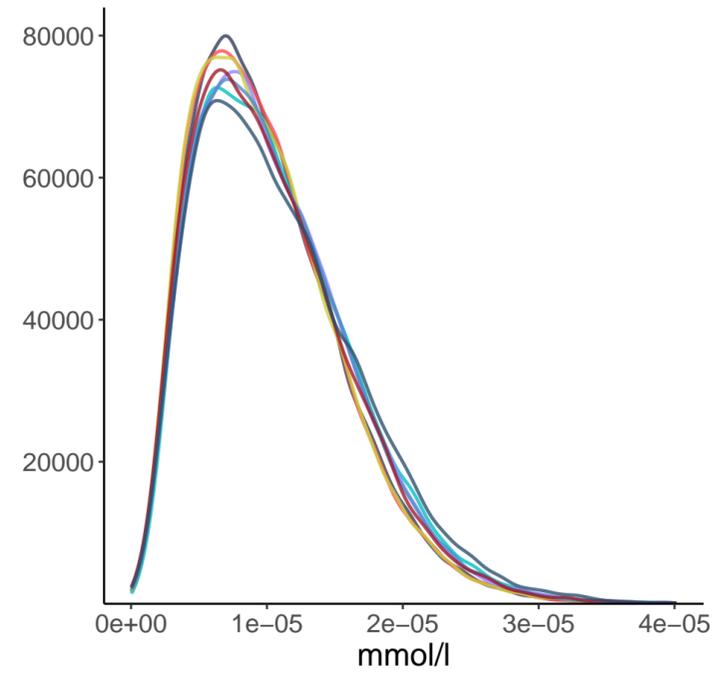
Spectrometer



Large VLDL (average diameter 53.6 nm)

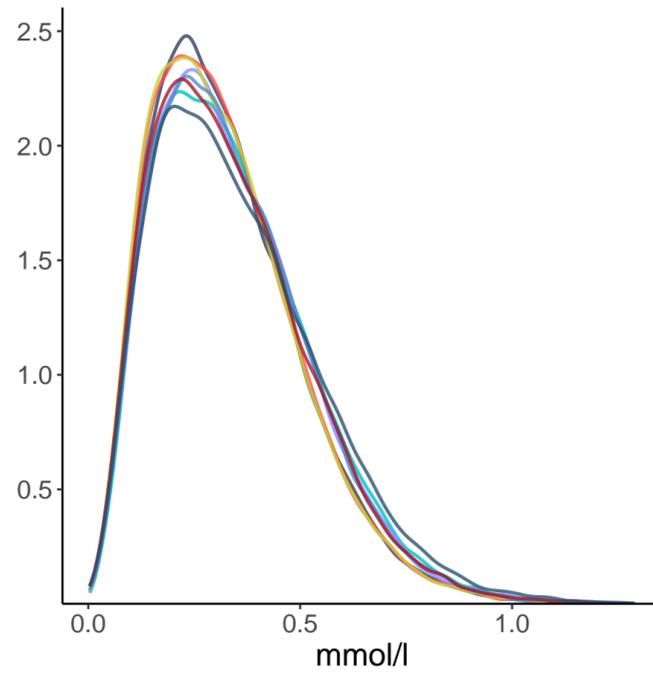
L_VLDL_P

Spectrometer



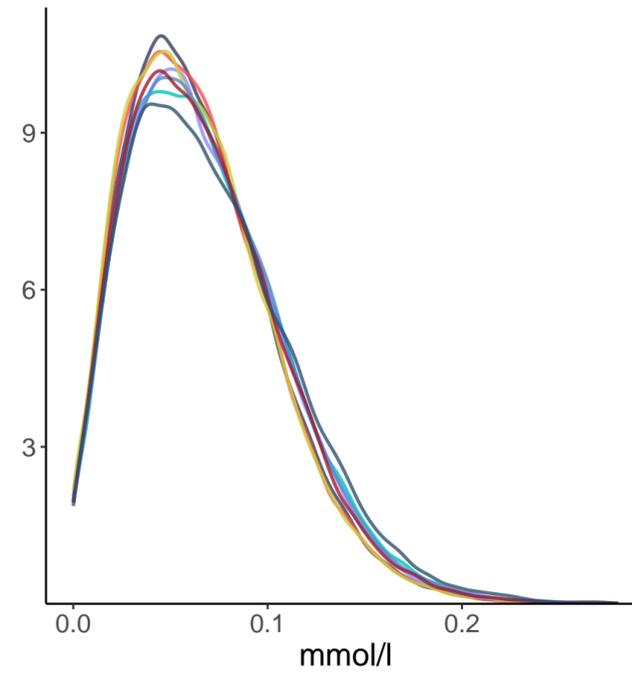
L_VLDL_L

Spectrometer



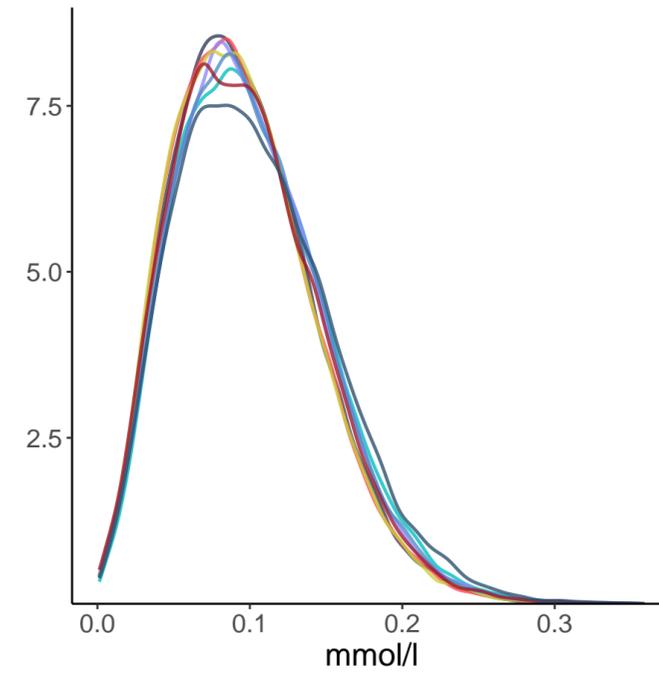
L_VLDL_PL

Spectrometer



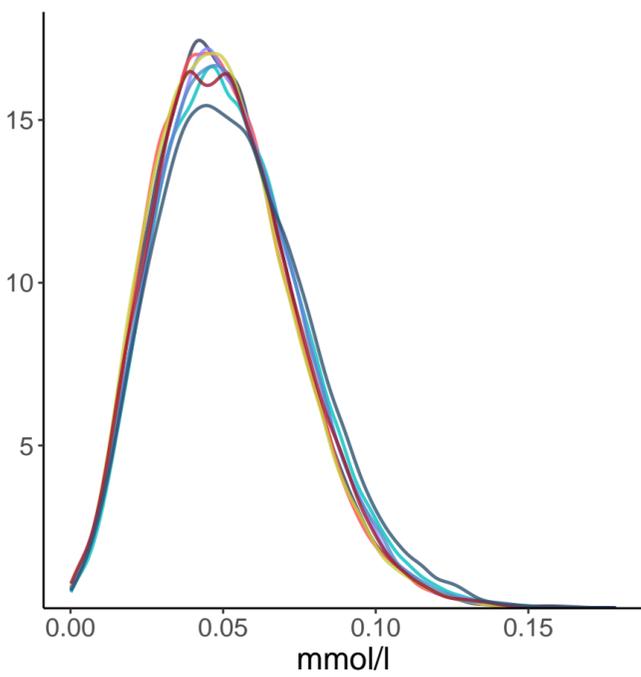
L_VLDL_C

Spectrometer



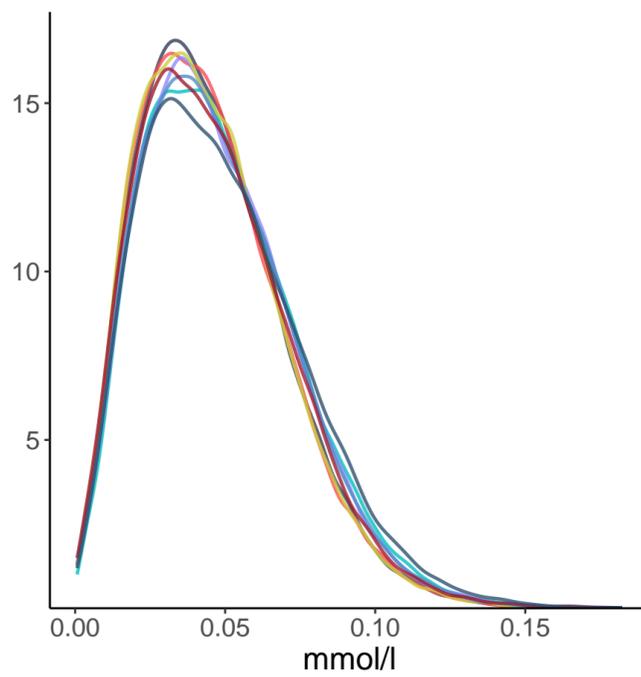
L_VLDL_CE

Spectrometer



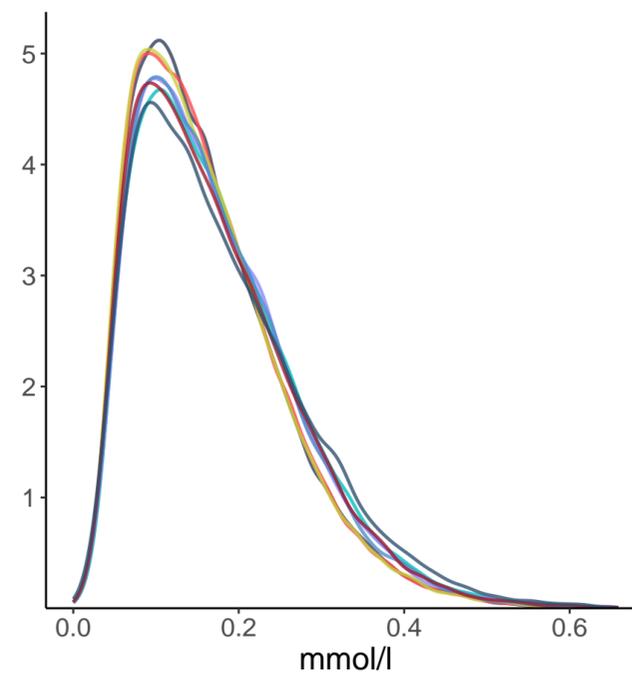
L_VLDL_FC

Spectrometer



L_VLDL_TG

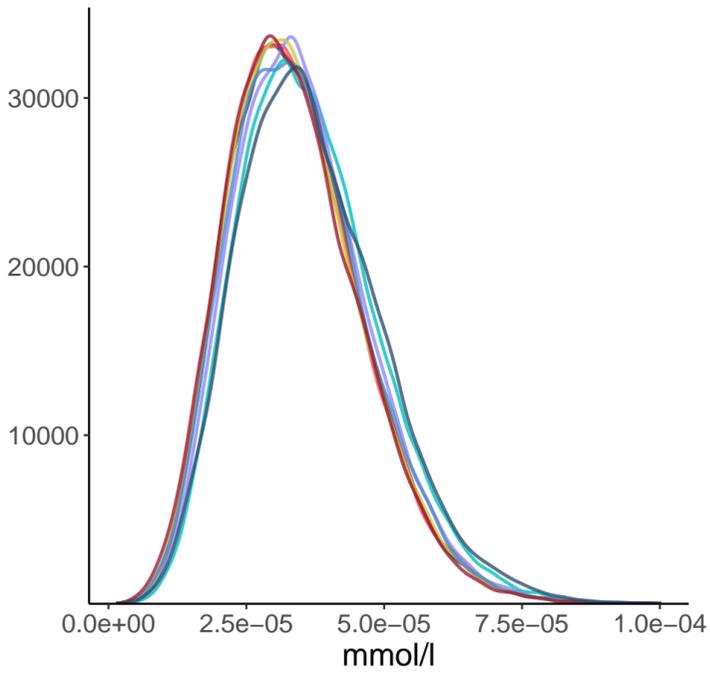
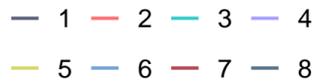
Spectrometer



Medium VLDL (average diameter 44.5 nm)

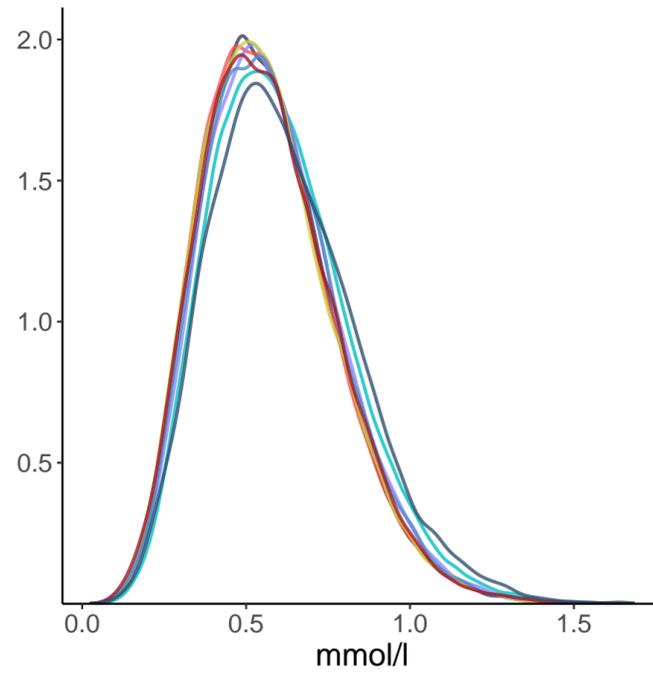
M_VLDL_P

Spectrometer



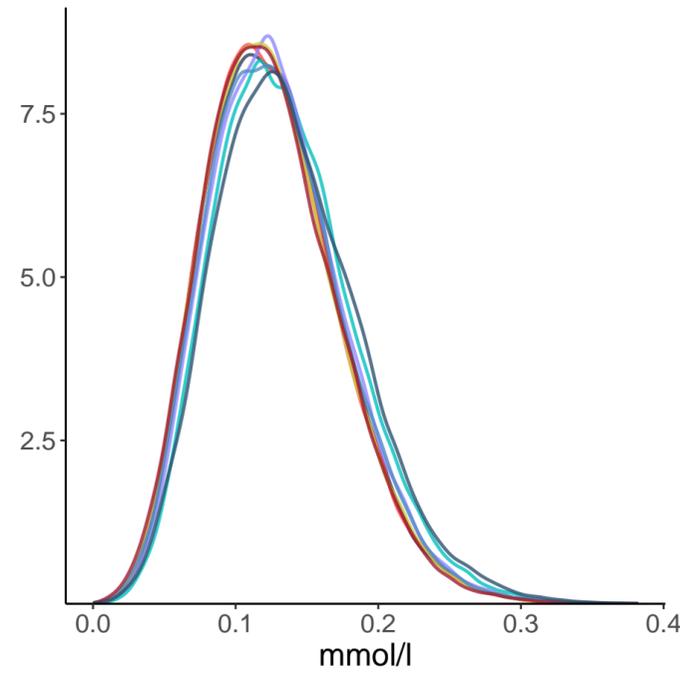
M_VLDL_L

Spectrometer



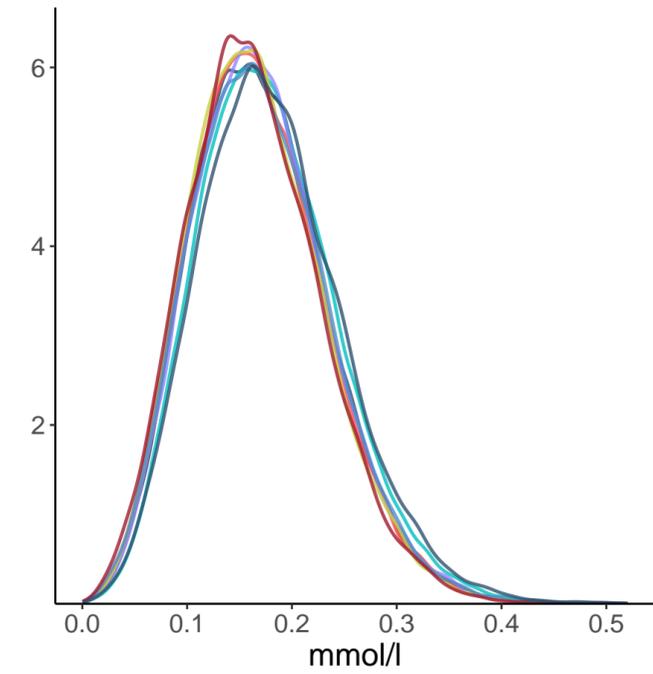
M_VLDL_PL

Spectrometer



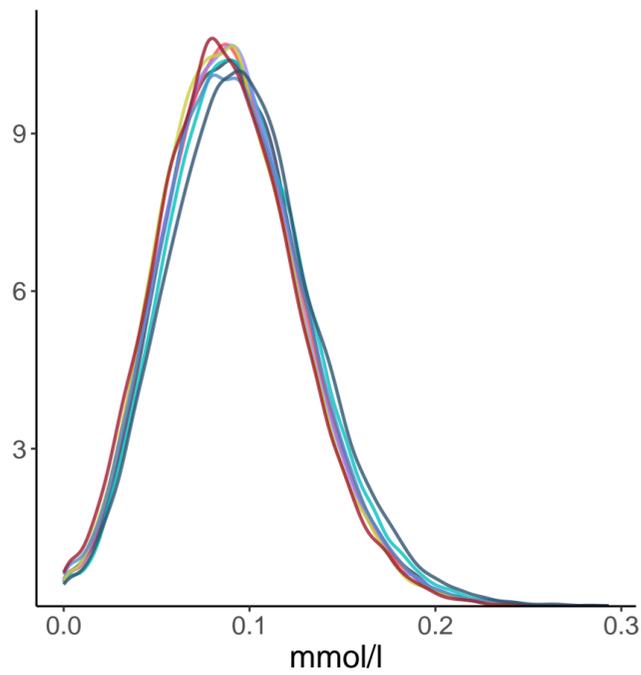
M_VLDL_C

Spectrometer



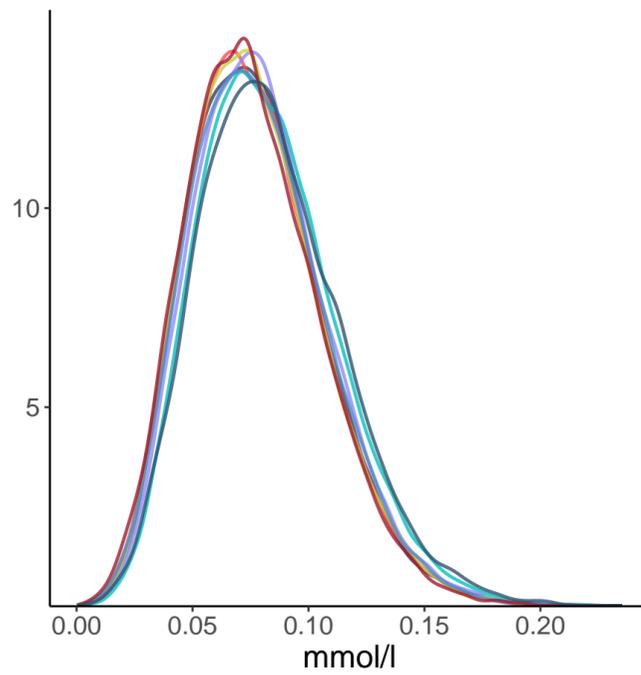
M_VLDL_CE

Spectrometer



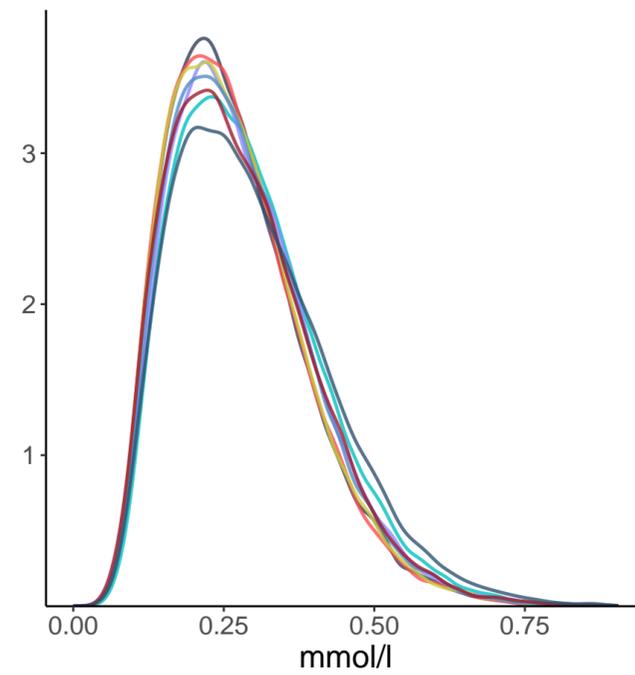
M_VLDL_FC

Spectrometer



M_VLDL_TG

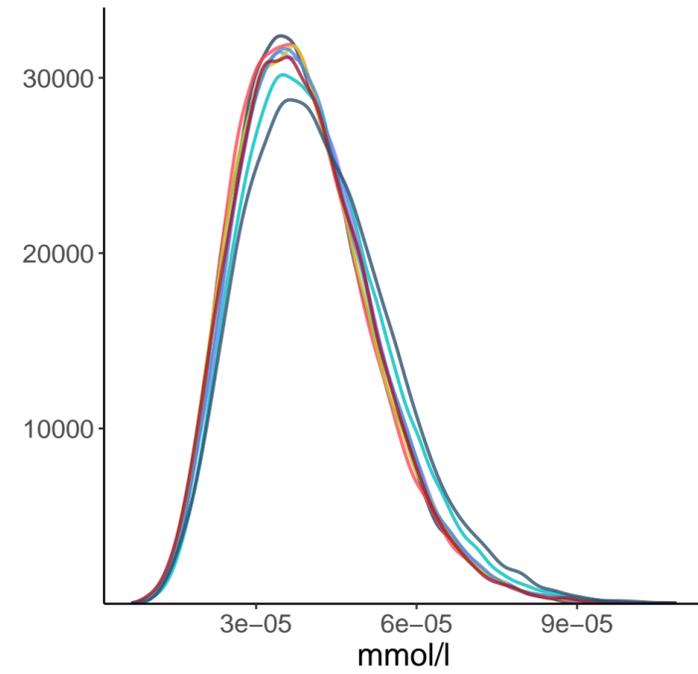
Spectrometer



Small VLDL (average diameter 36.8 nm)

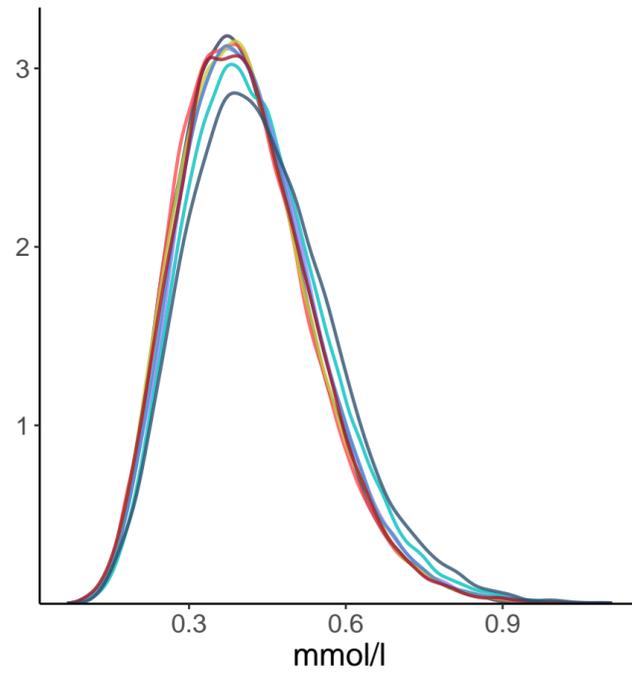
S_VLDL_P

Spectrometer



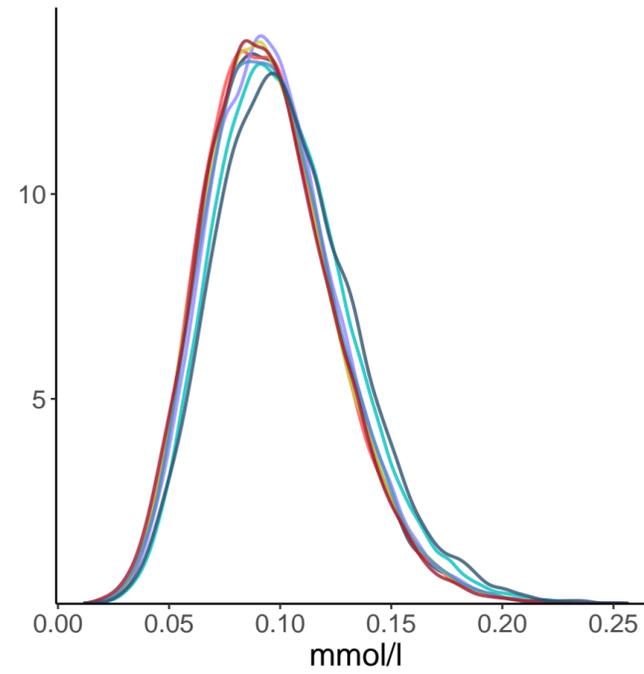
S_VLDL_L

Spectrometer



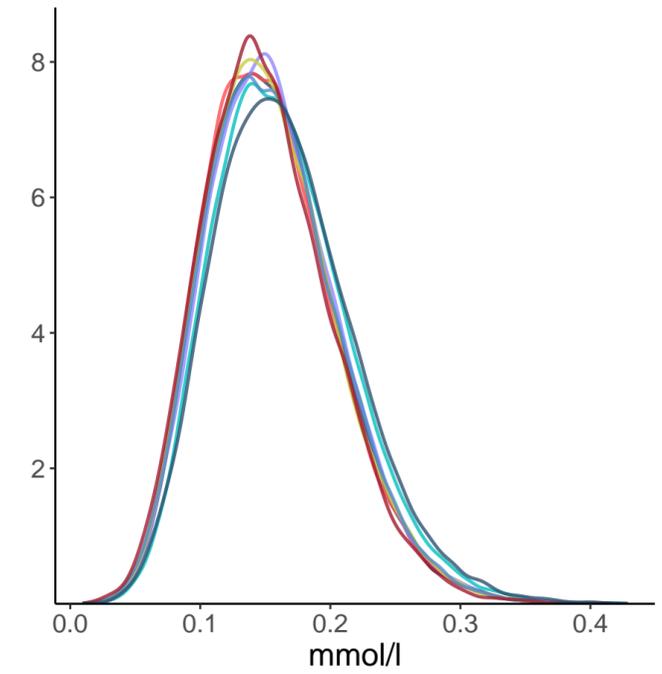
S_VLDL_PL

Spectrometer



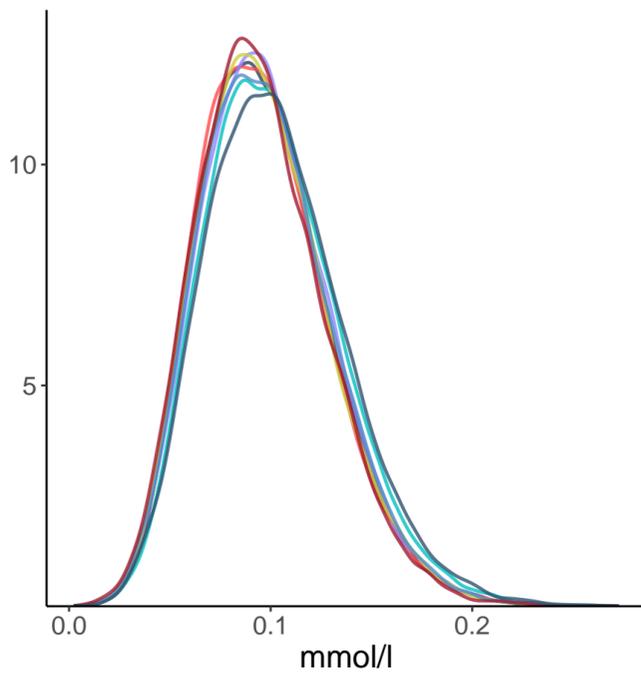
S_VLDL_C

Spectrometer



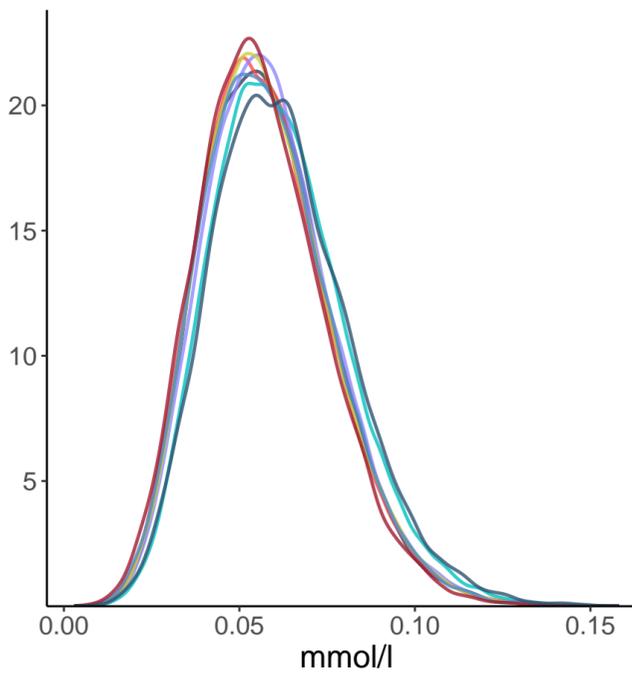
S_VLDL_CE

Spectrometer



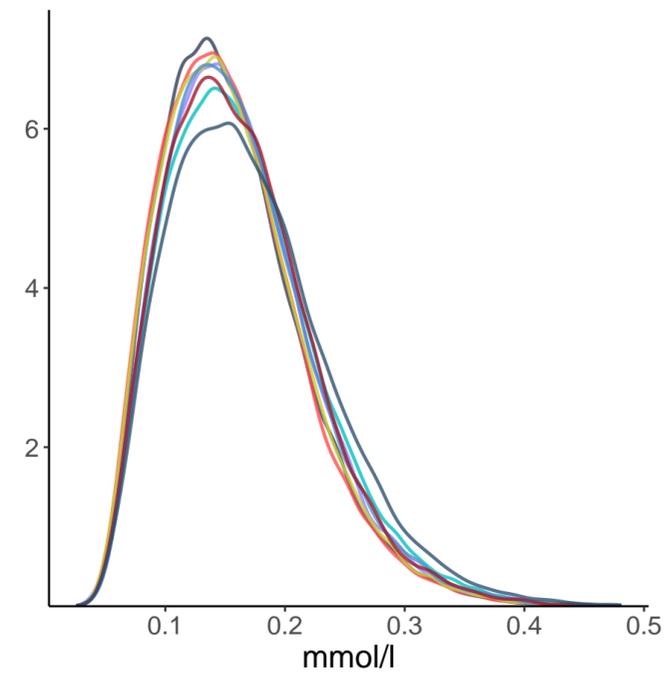
S_VLDL_FC

Spectrometer



S_VLDL_TG

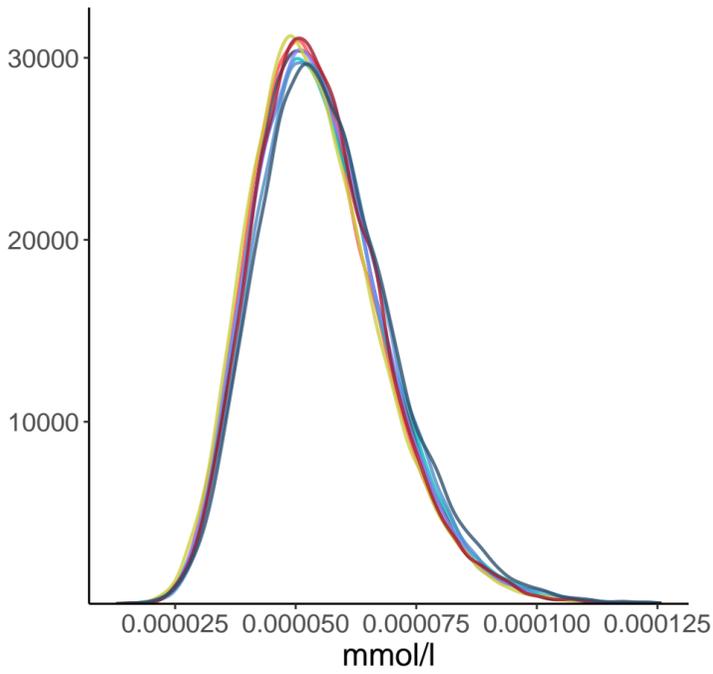
Spectrometer



Very small VLDL (average diameter 31.3 nm)

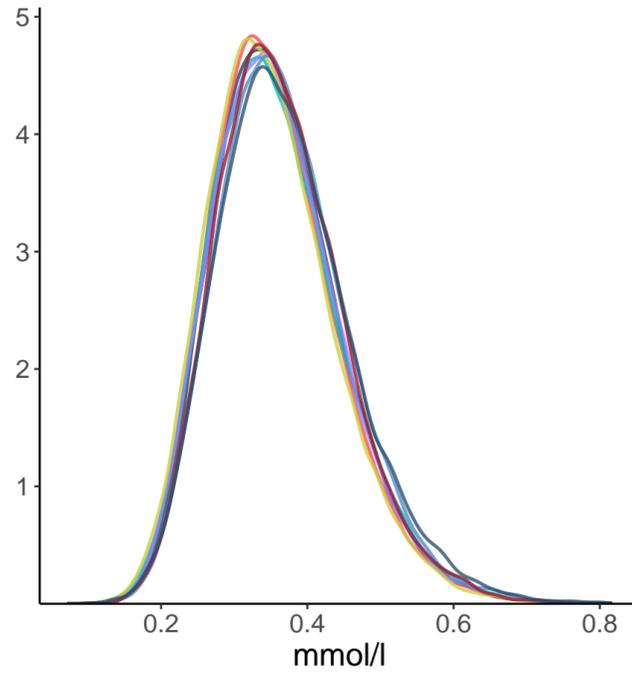
XS_VLDL_P

Spectrometer



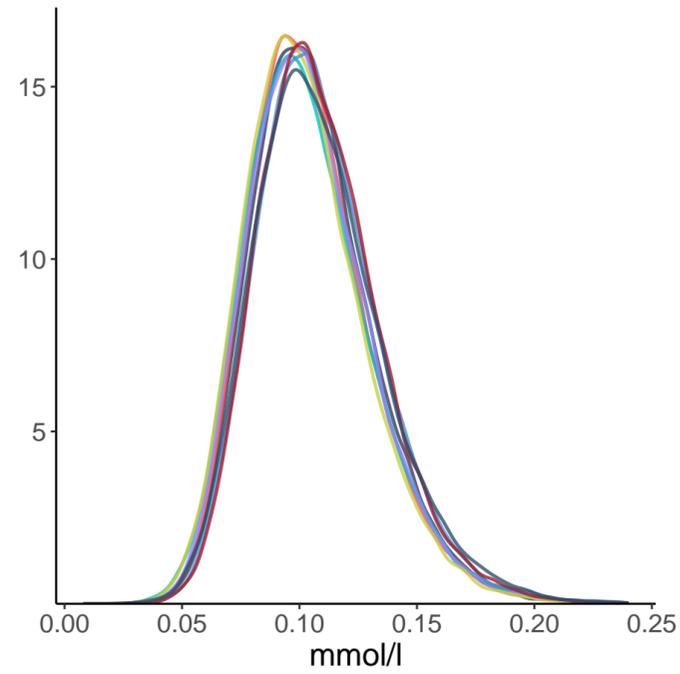
XS_VLDL_L

Spectrometer



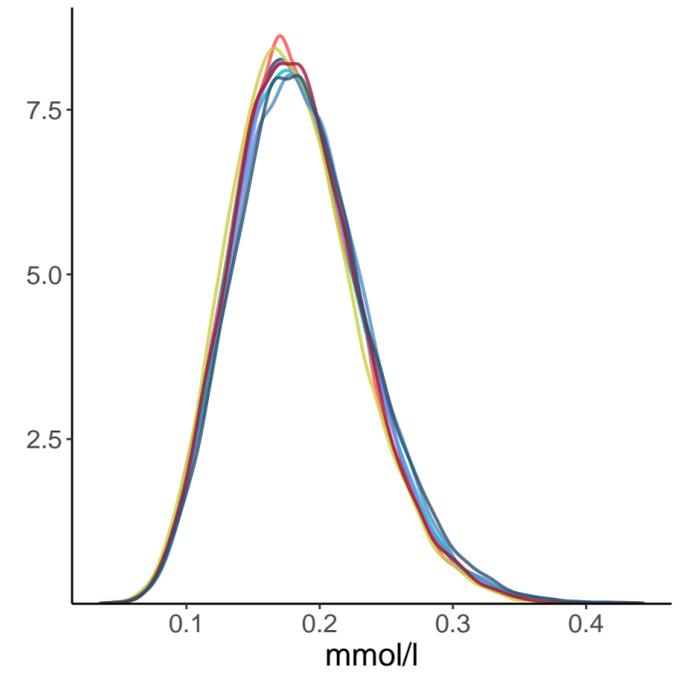
XS_VLDL_PL

Spectrometer



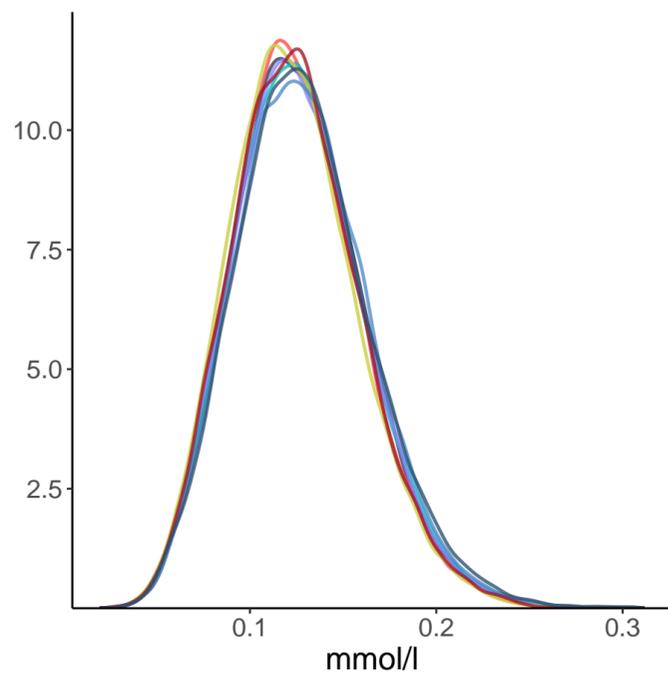
XS_VLDL_C

Spectrometer



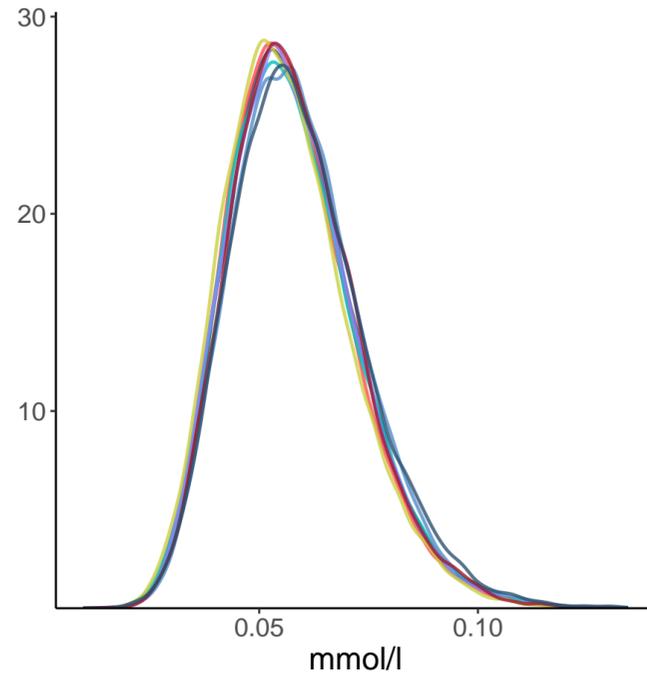
XS_VLDL_CE

Spectrometer



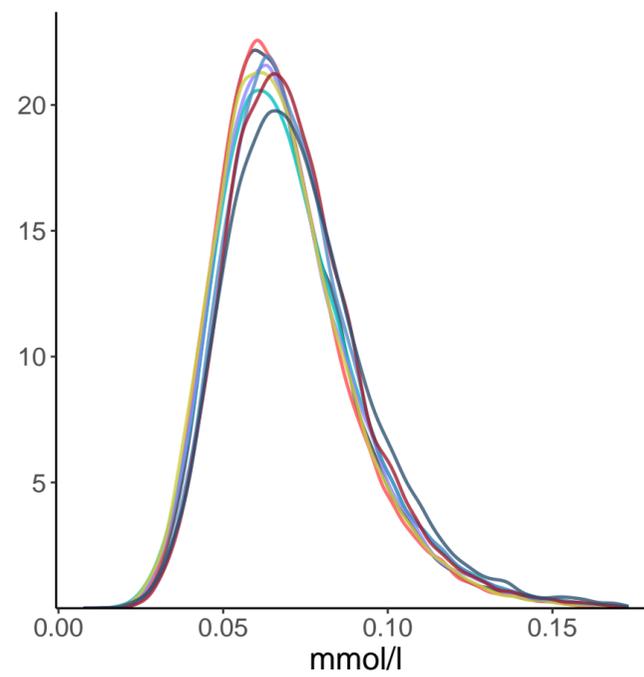
XS_VLDL_FC

Spectrometer



XS_VLDL_TG

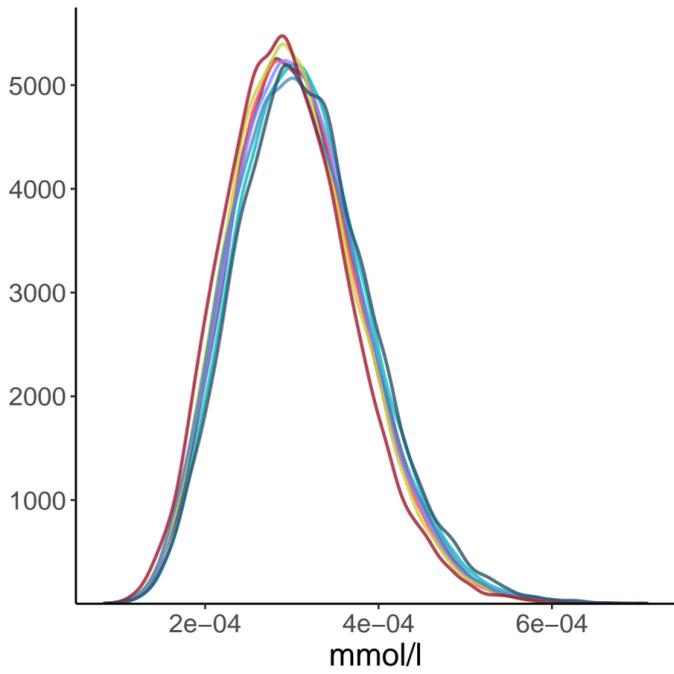
Spectrometer



IDL (average diameter 28.6 nm)

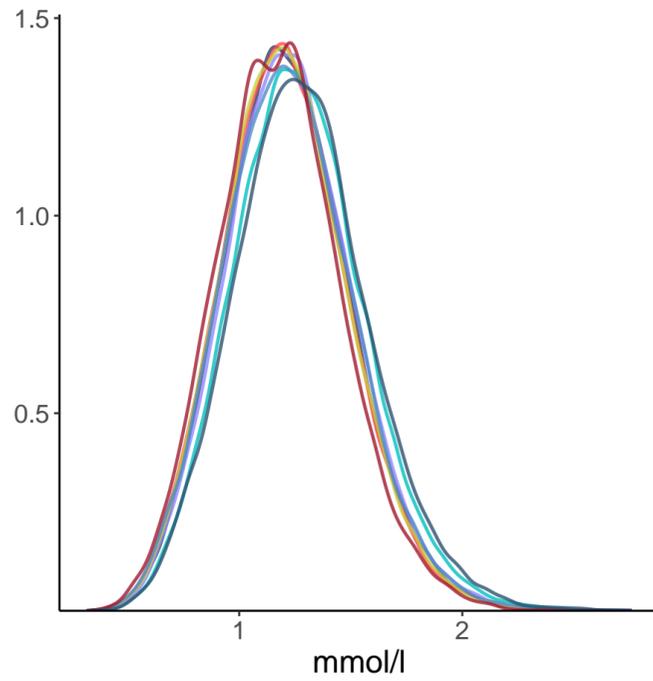
IDL_P

Spectrometer



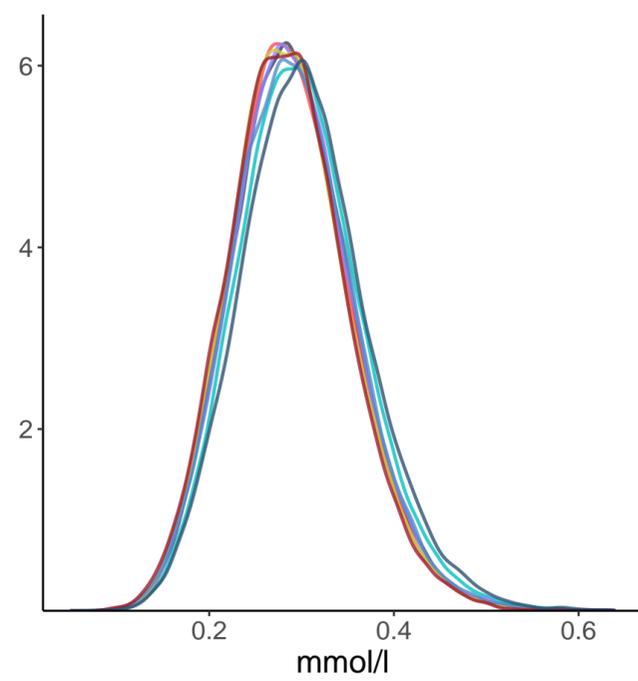
IDL_L

Spectrometer



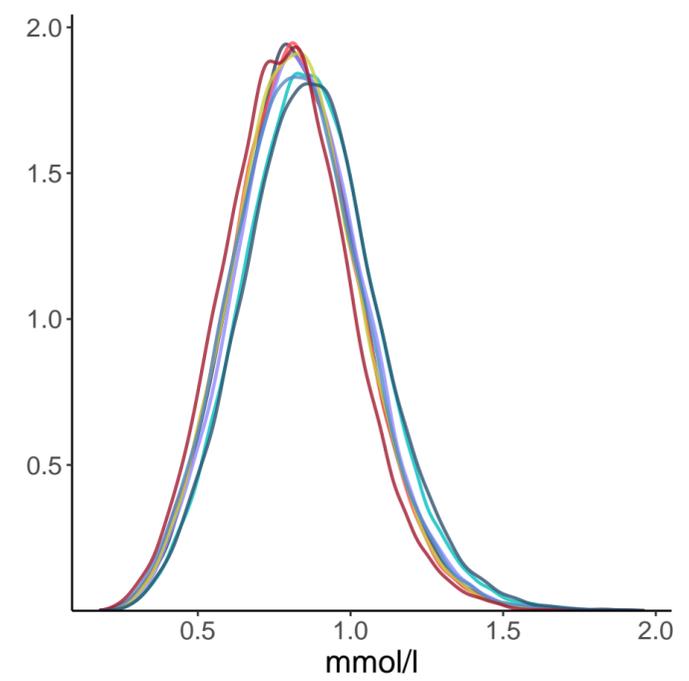
IDL_PL

Spectrometer



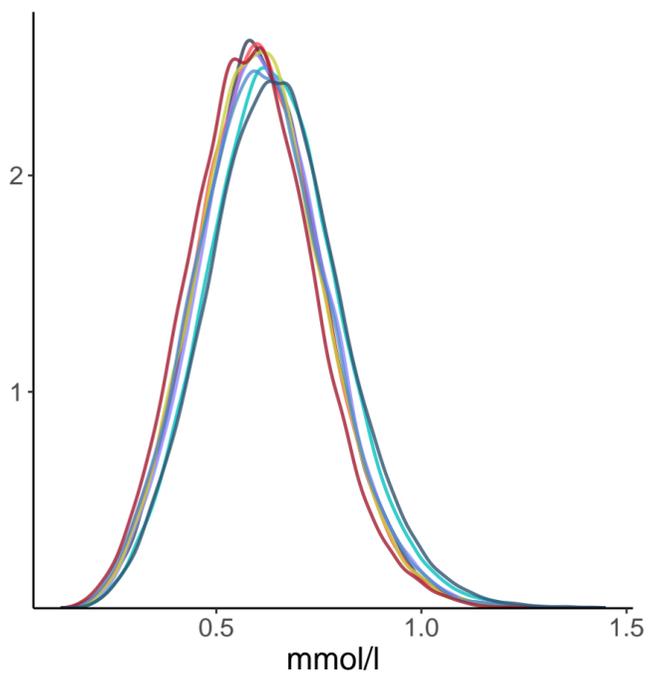
IDL_C

Spectrometer



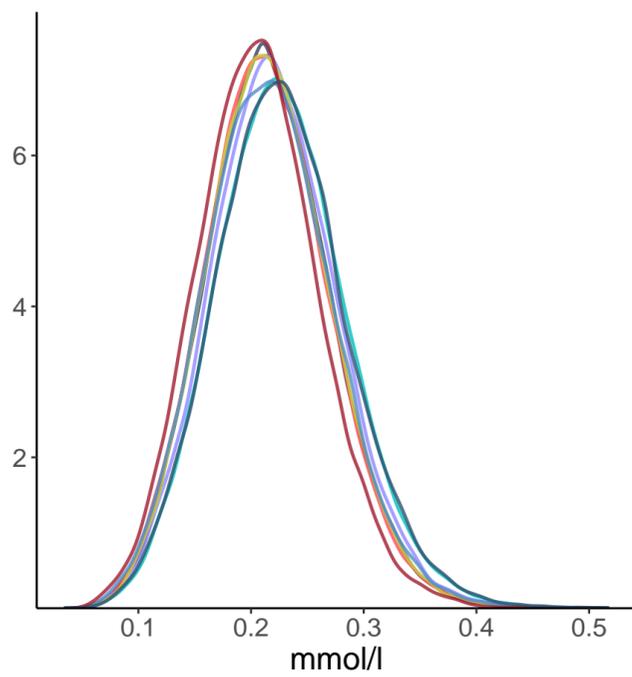
IDL_CE

Spectrometer



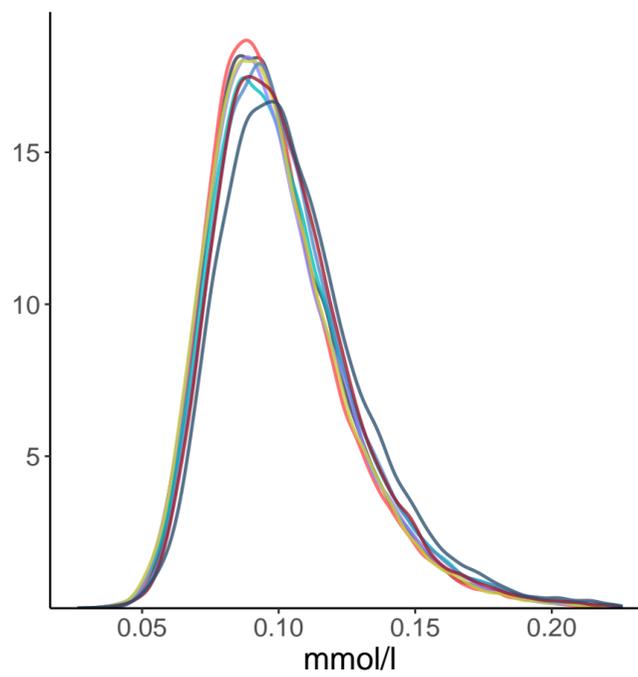
IDL_FC

Spectrometer



IDL_TG

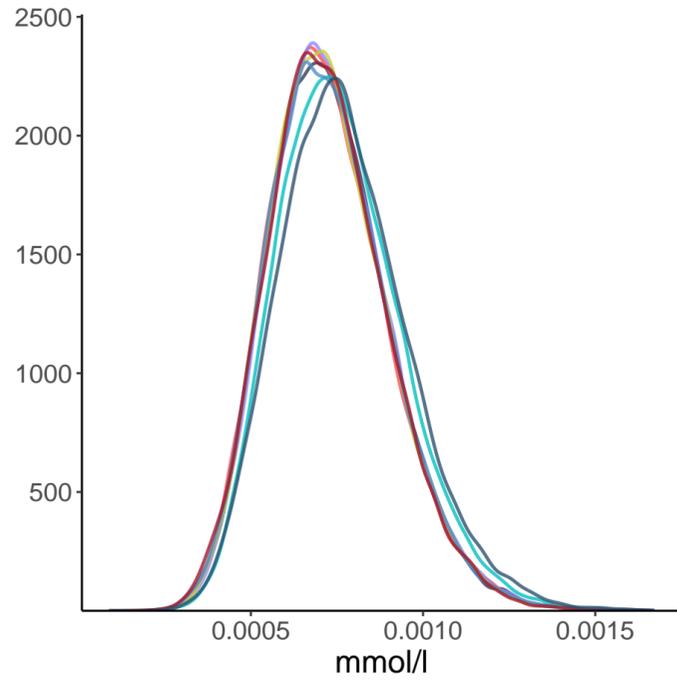
Spectrometer



Large LDL (average diameter 25.5 nm)

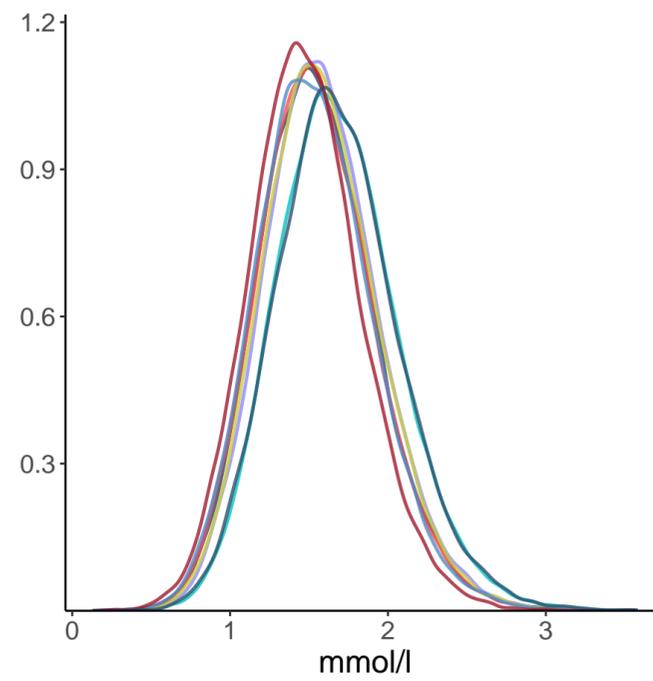
L_LDL_P

Spectrometer



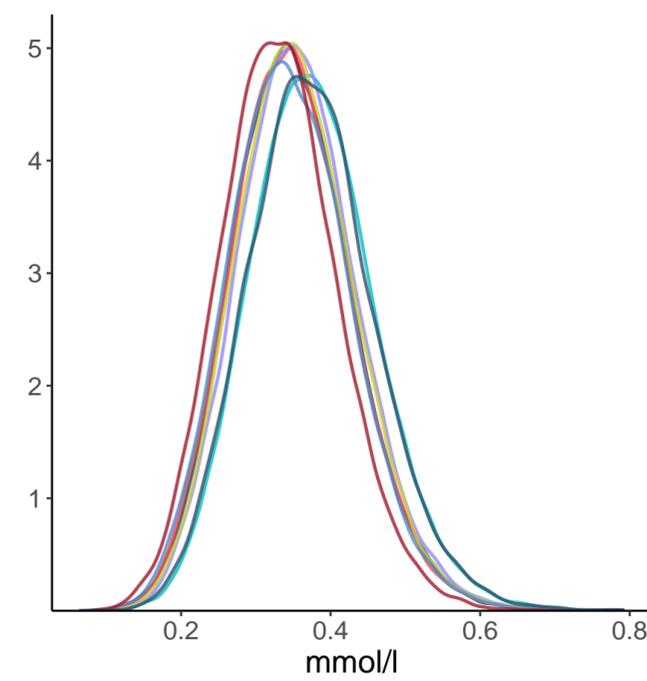
L_LDL_L

Spectrometer



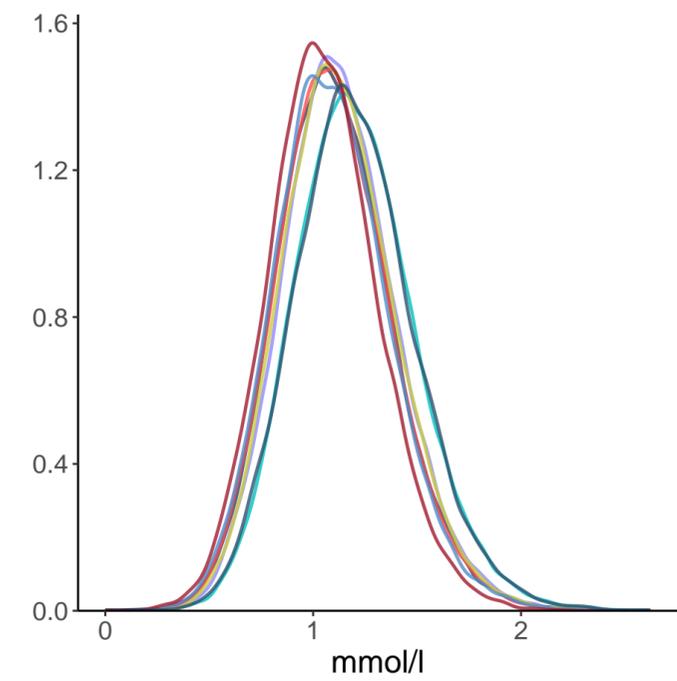
L_LDL_PL

Spectrometer



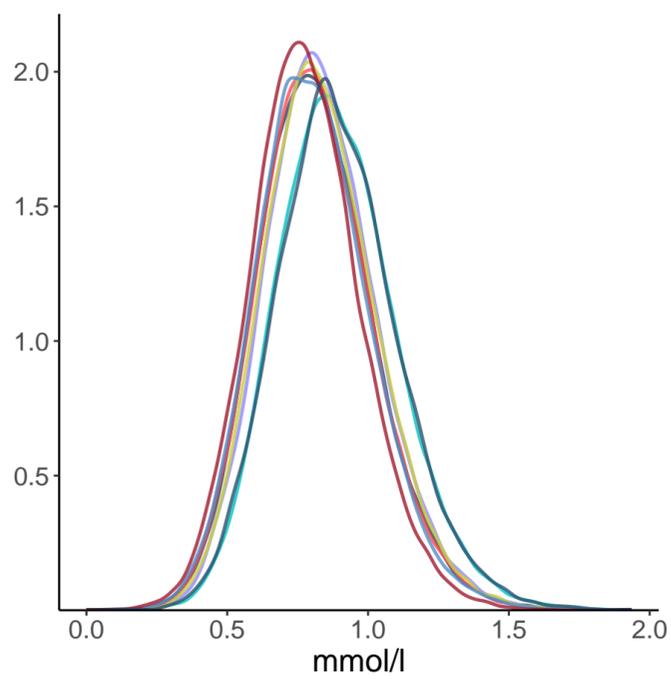
L_LDL_C

Spectrometer



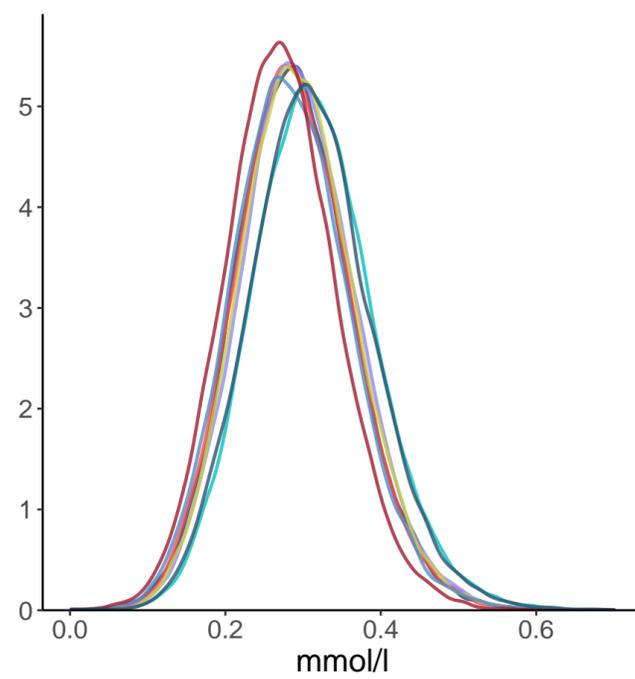
L_LDL_CE

Spectrometer



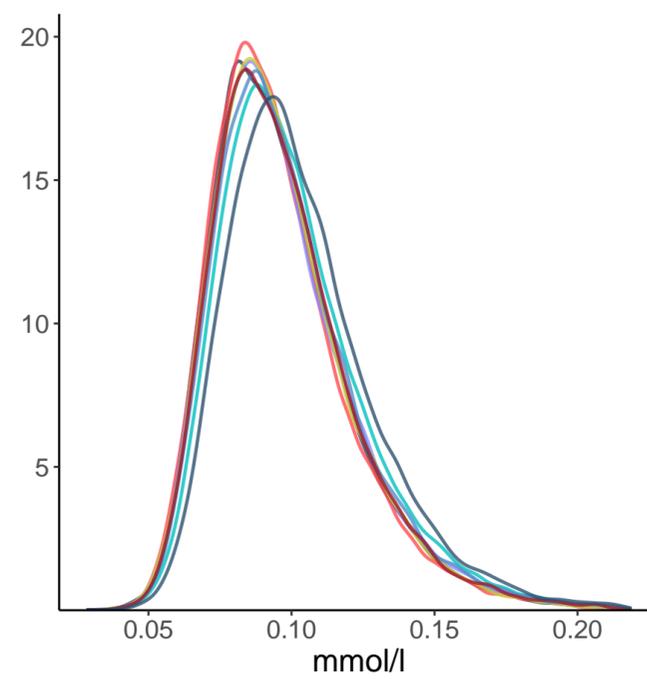
L_LDL_FC

Spectrometer



L_LDL_TG

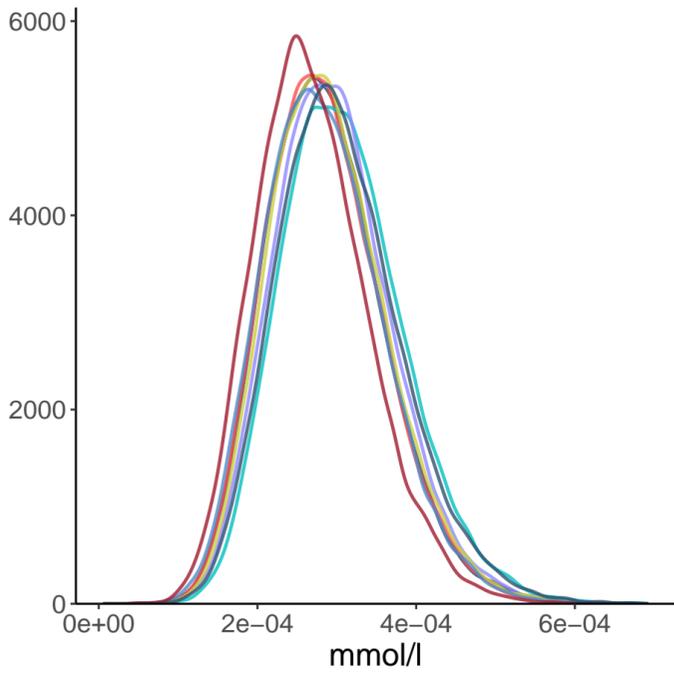
Spectrometer



Medium LDL (average diameter 23 nm)

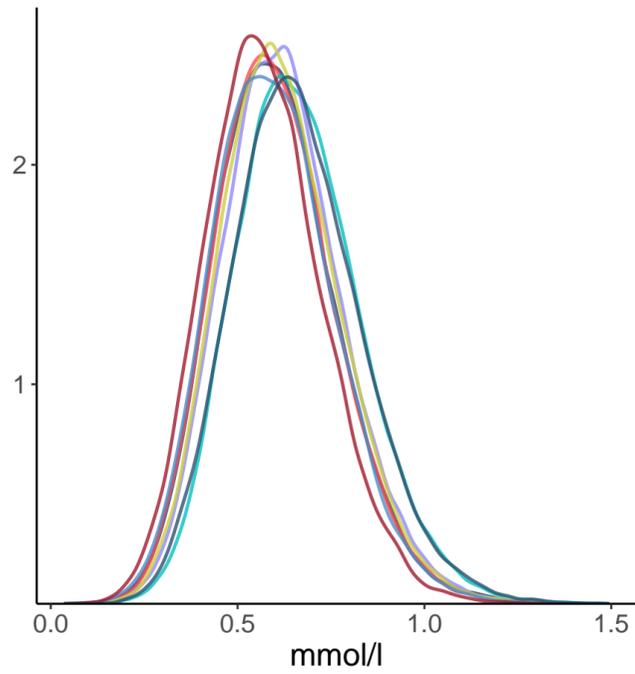
M_LDL_P

Spectrometer



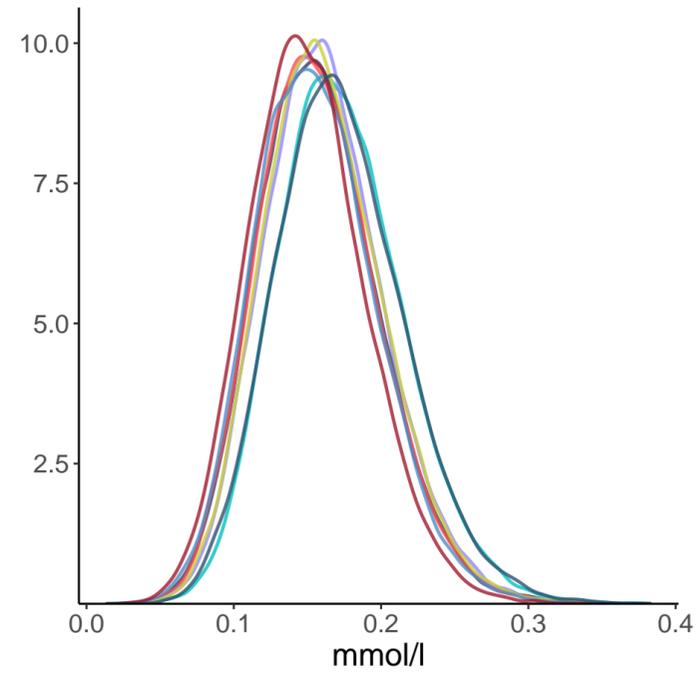
M_LDL_L

Spectrometer



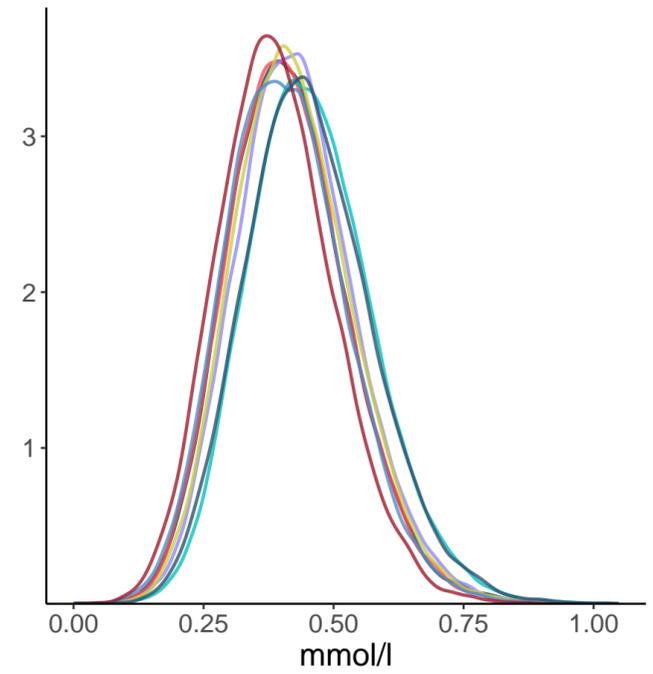
M_LDL_PL

Spectrometer



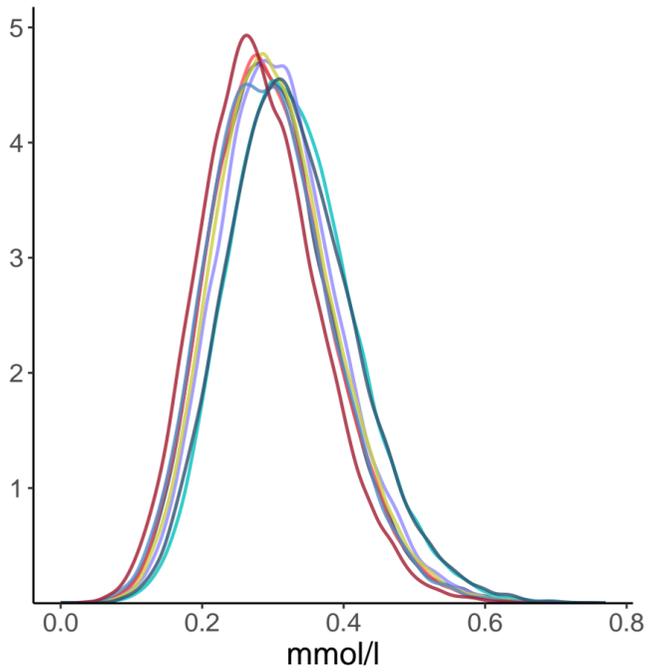
M_LDL_C

Spectrometer



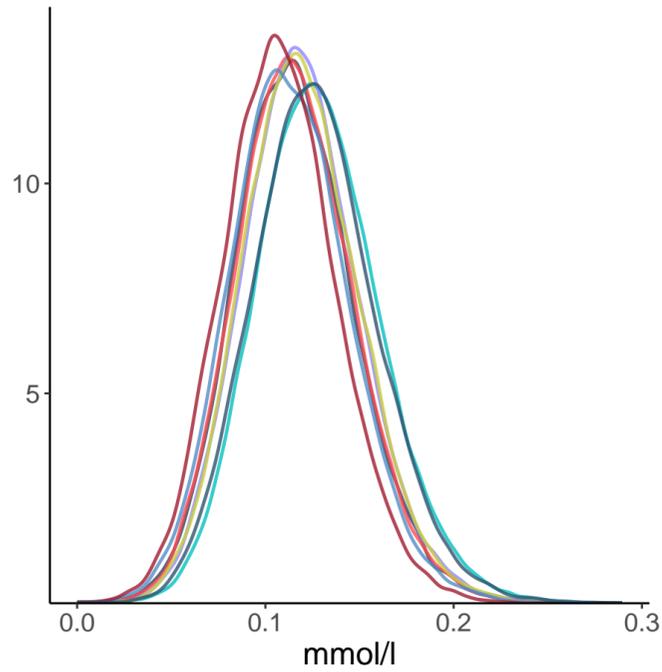
M_LDL_CE

Spectrometer



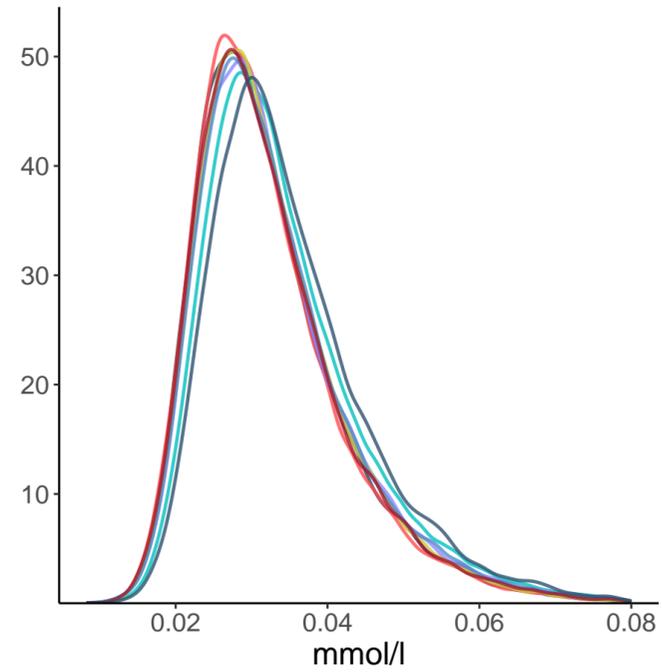
M_LDL_FC

Spectrometer



M_LDL_TG

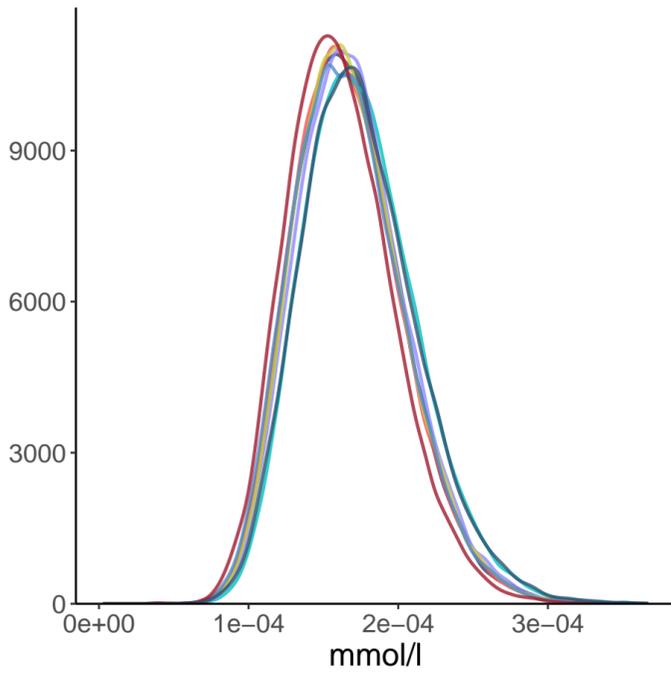
Spectrometer



Small LDL (average diameter 18.7 nm)

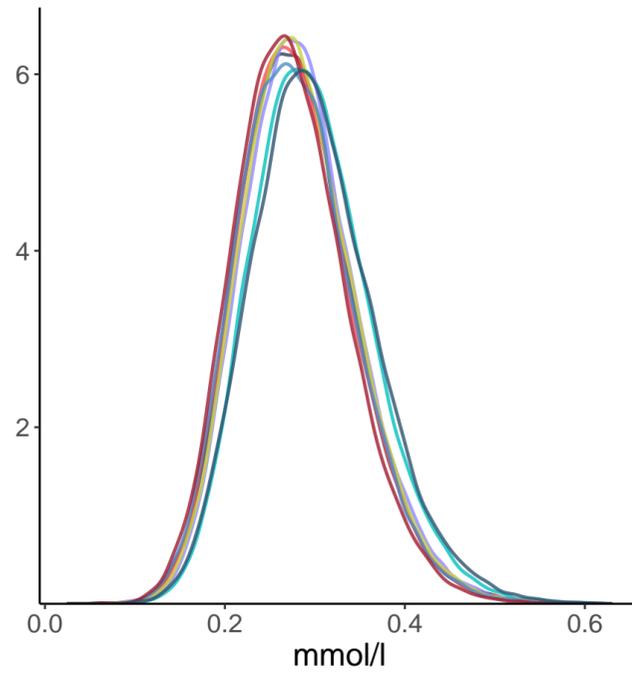
S_LDL_P

Spectrometer



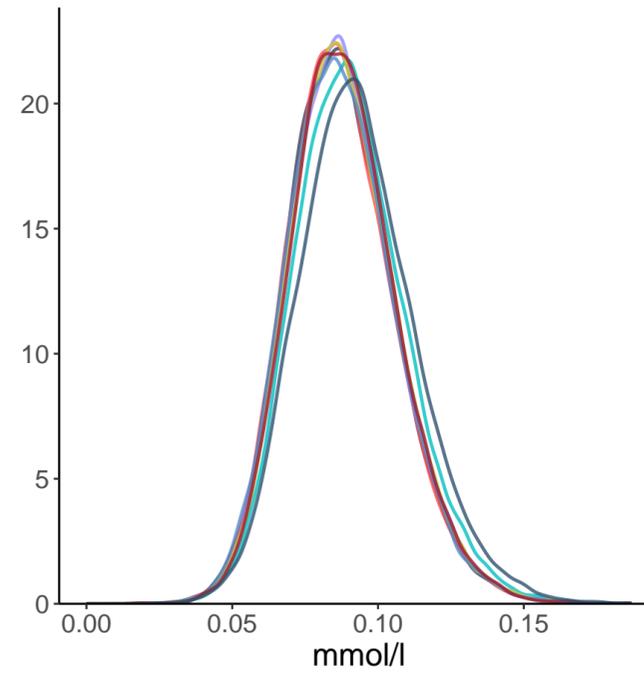
S_LDL_L

Spectrometer



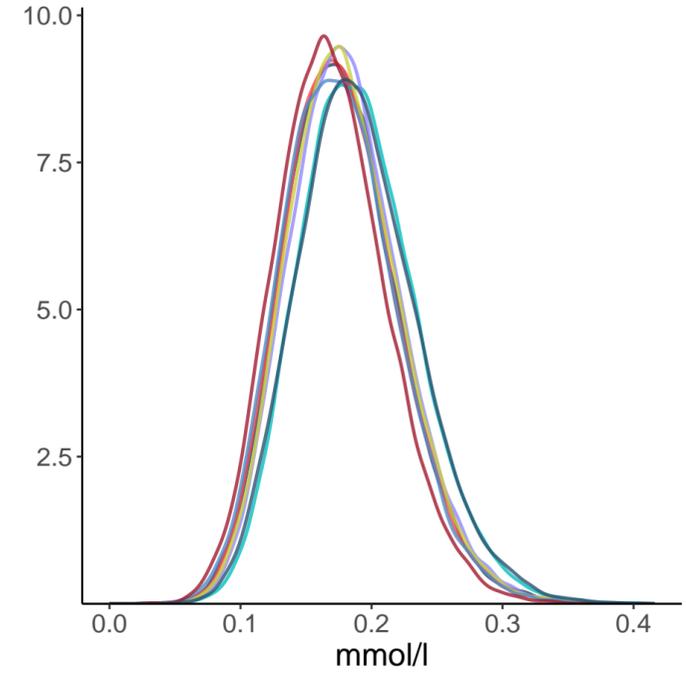
S_LDL_PL

Spectrometer



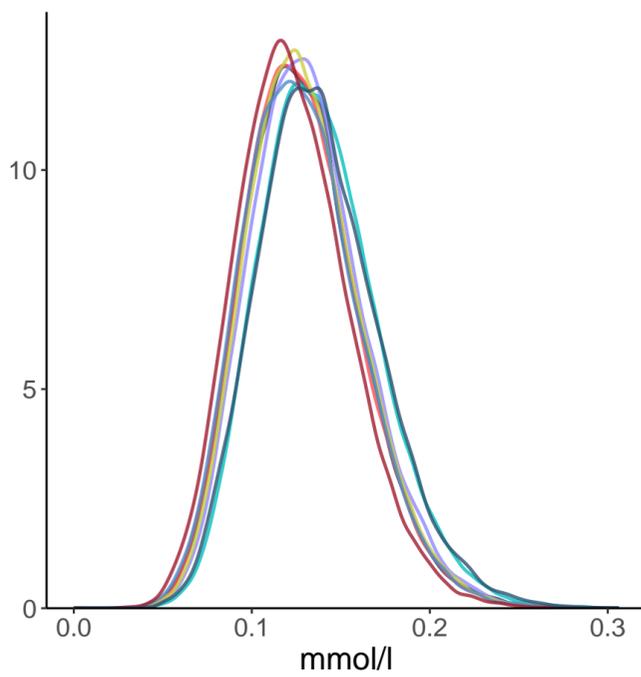
S_LDL_C

Spectrometer



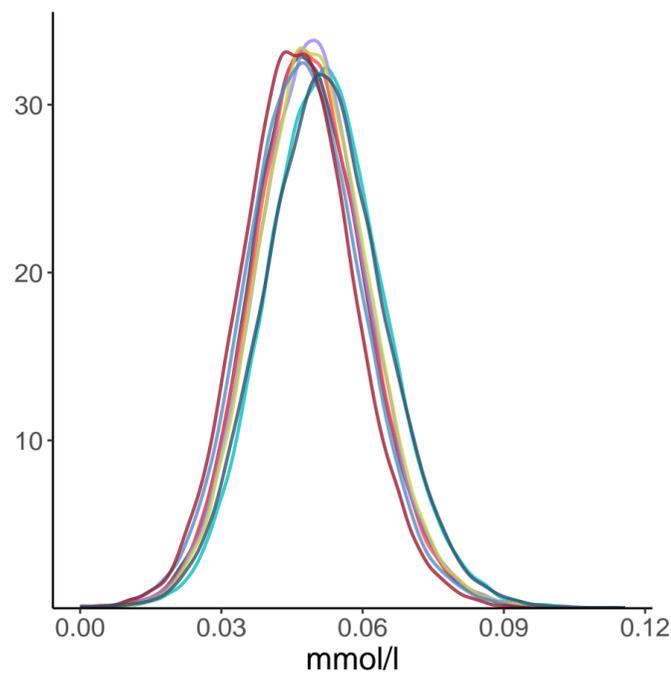
S_LDL_CE

Spectrometer



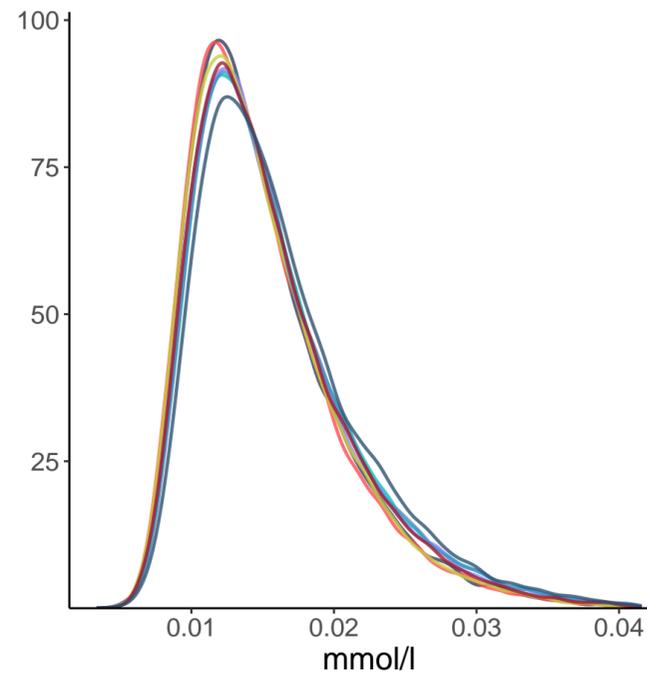
S_LDL_FC

Spectrometer



S_LDL_TG

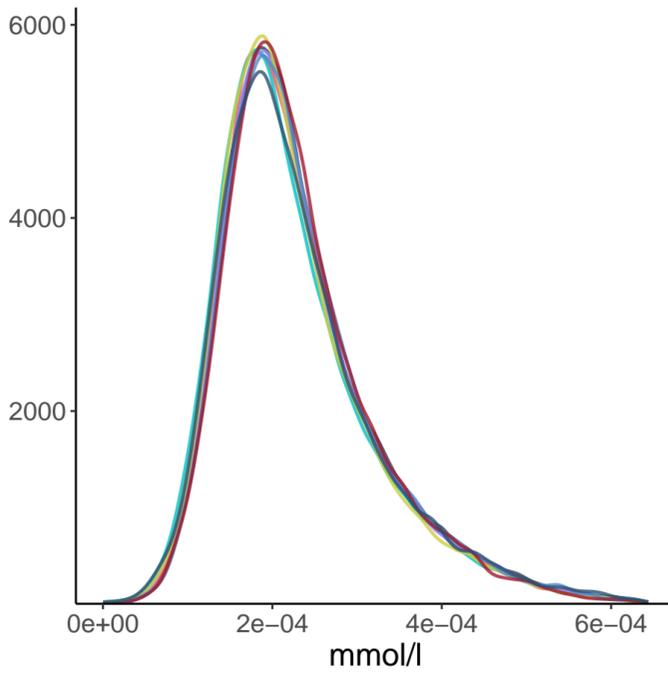
Spectrometer



Very large HDL (average diameter 14.3 nm)

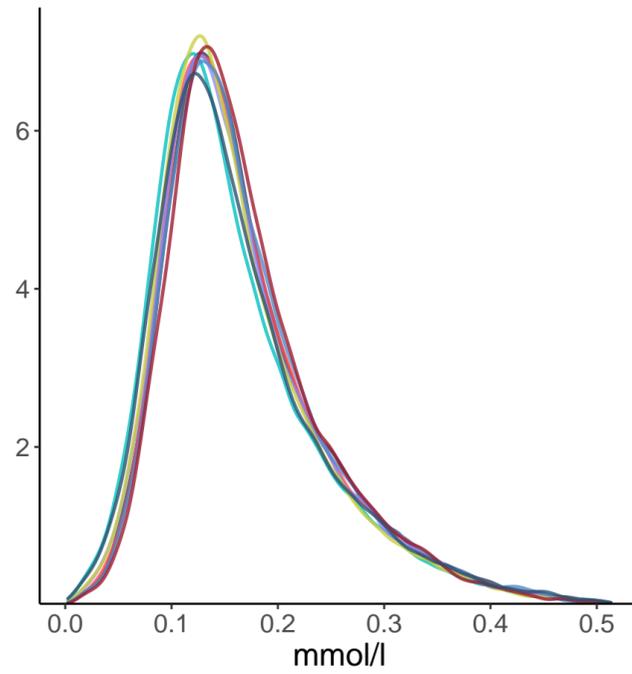
XL_HDL_P

Spectrometer



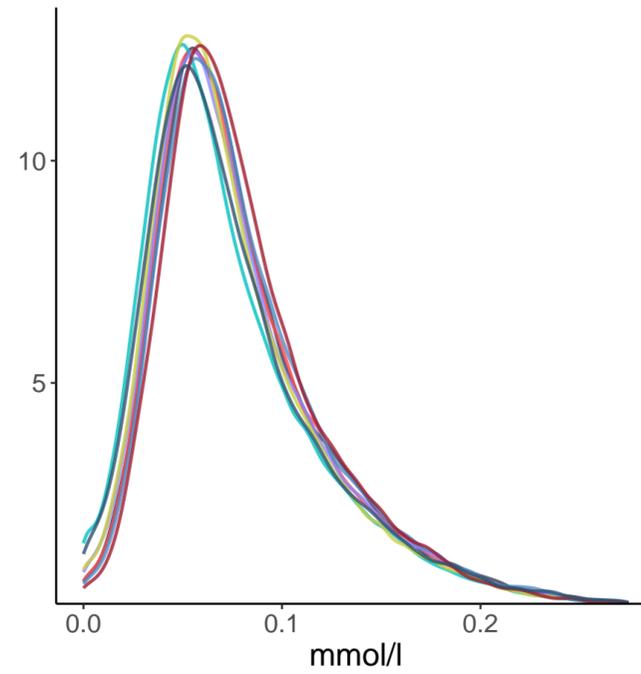
XL_HDL_L

Spectrometer



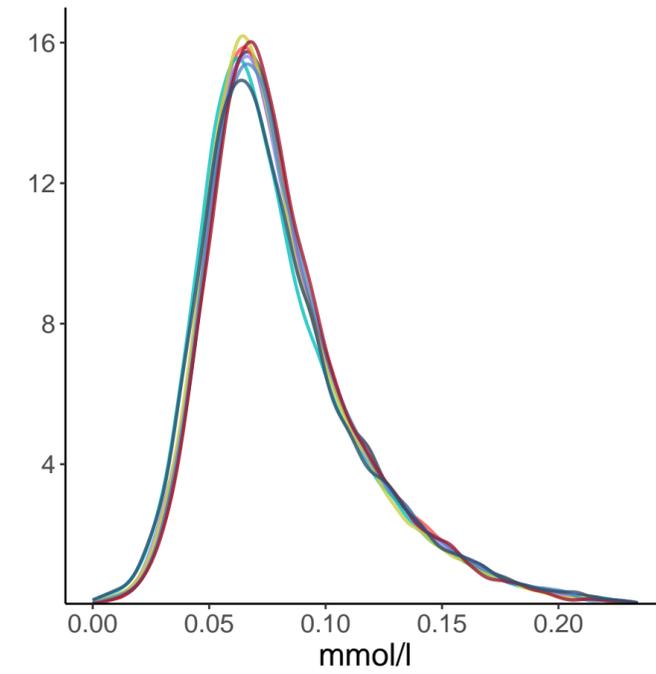
XL_HDL_PL

Spectrometer



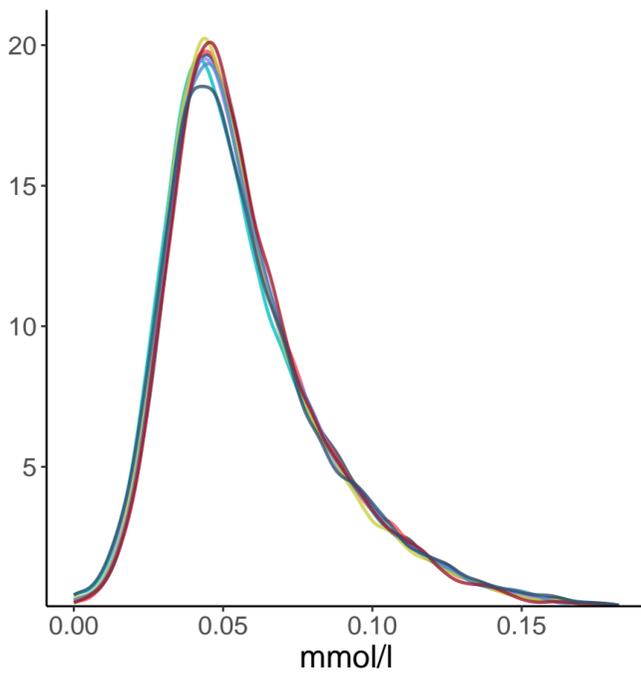
XL_HDL_C

Spectrometer



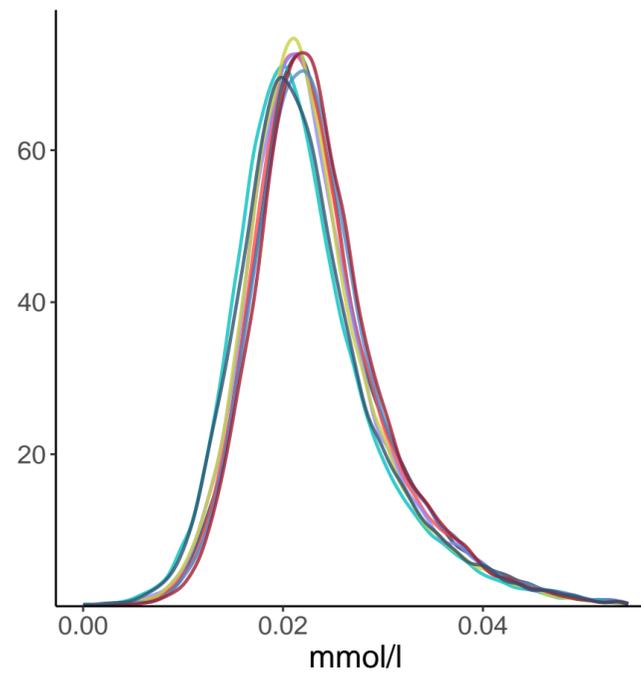
XL_HDL_CE

Spectrometer



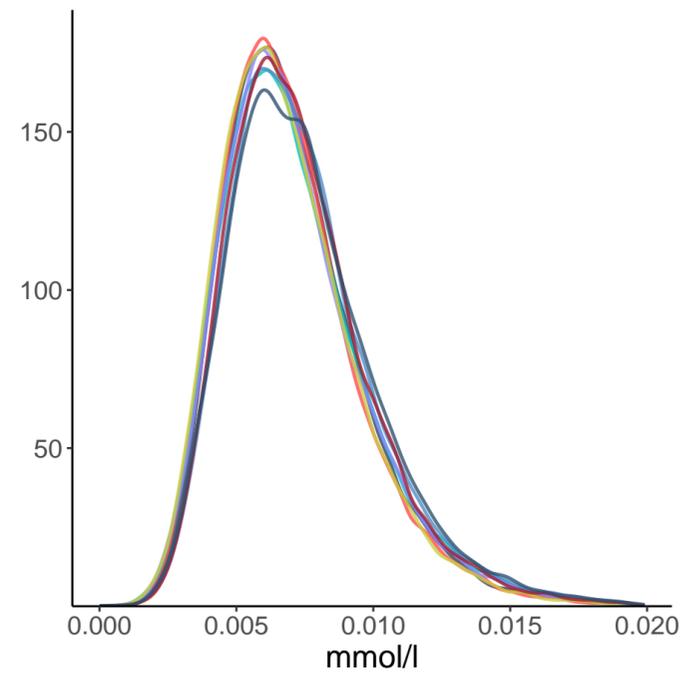
XL_HDL_FC

Spectrometer



XL_HDL_TG

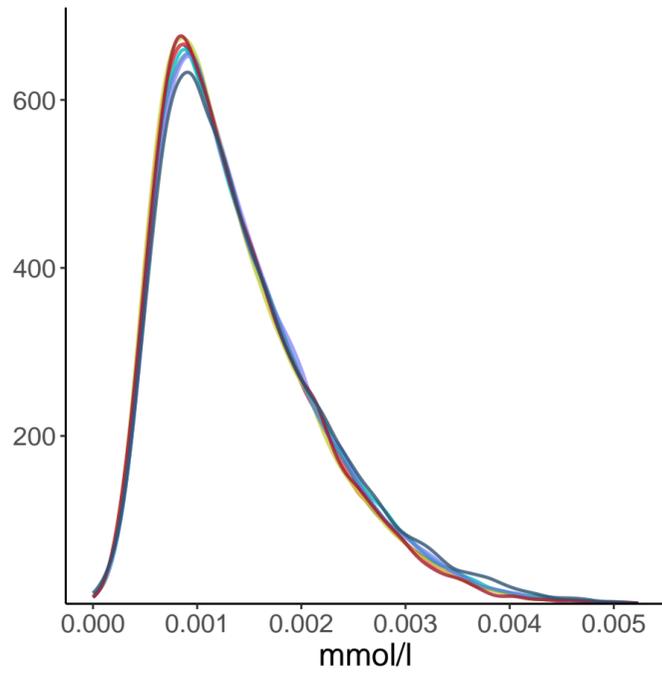
Spectrometer



Large HDL (average diameter 12.1 nm)

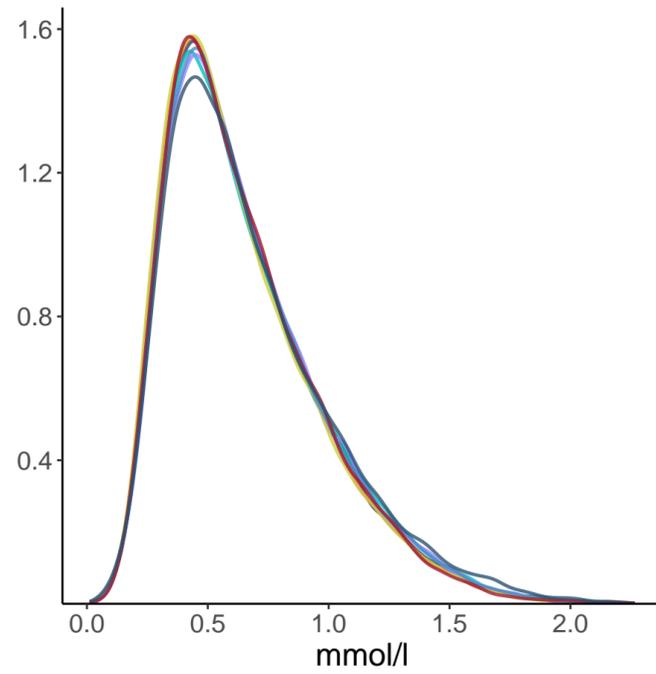
L_HDL_P

Spectrometer



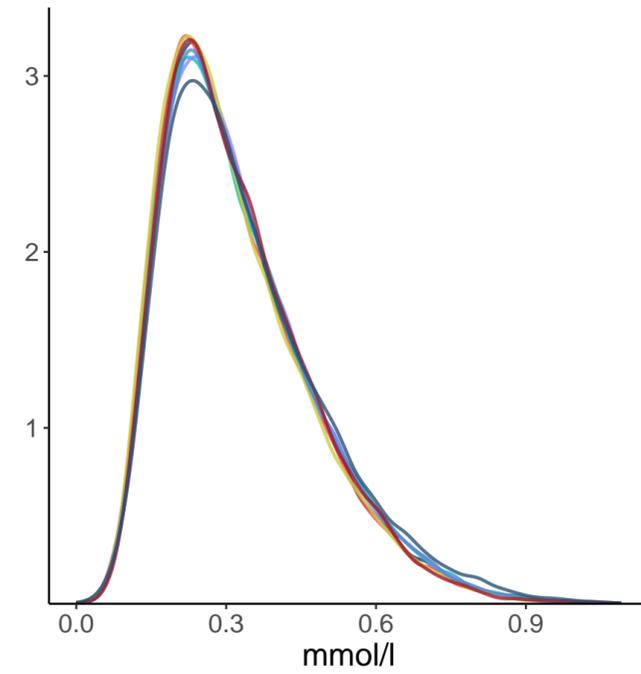
L_HDL_L

Spectrometer



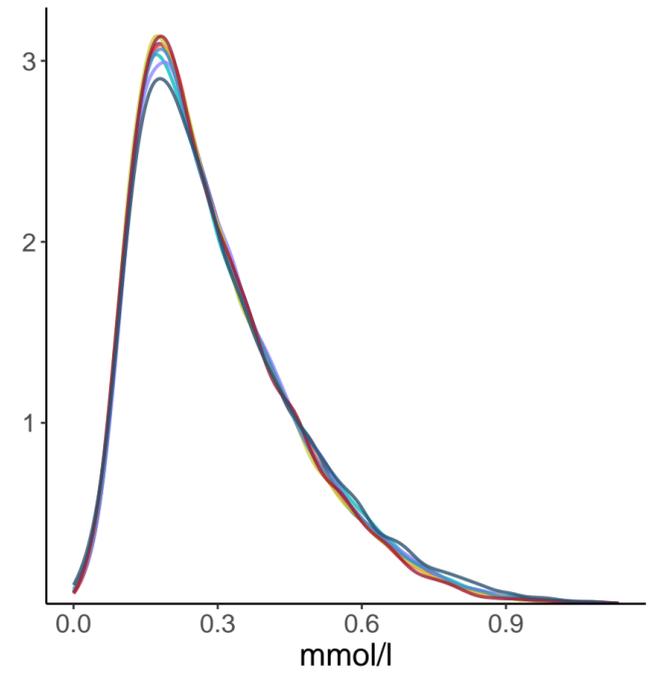
L_HDL_PL

Spectrometer



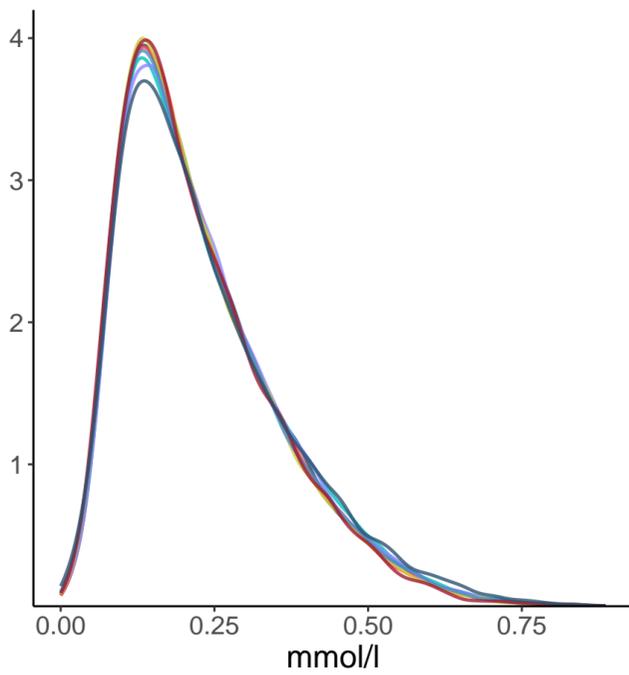
L_HDL_C

Spectrometer



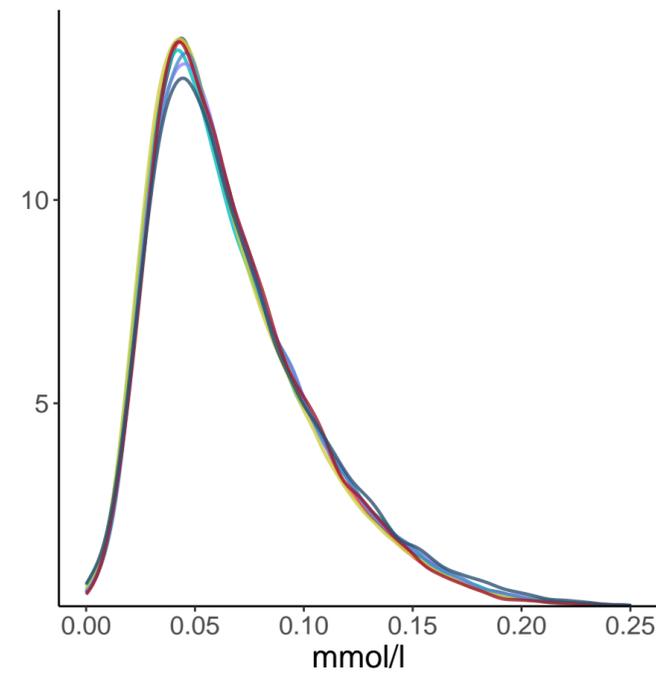
L_HDL_CE

Spectrometer



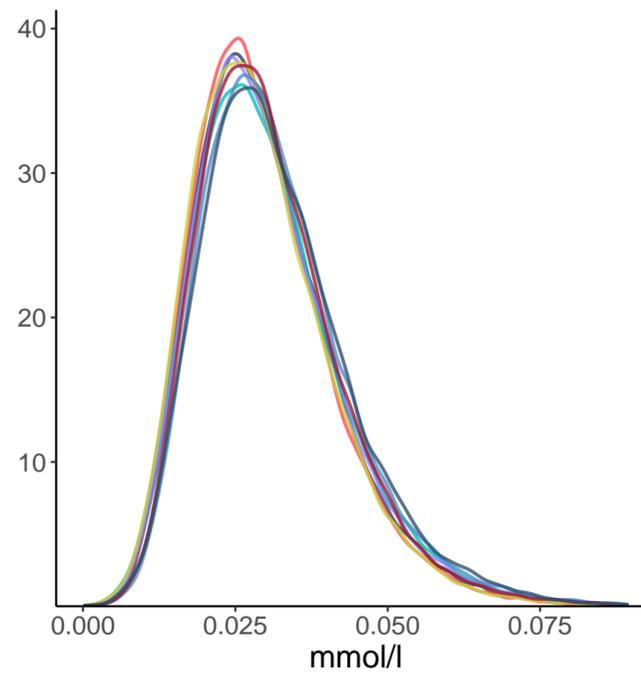
L_HDL_FC

Spectrometer



L_HDL_TG

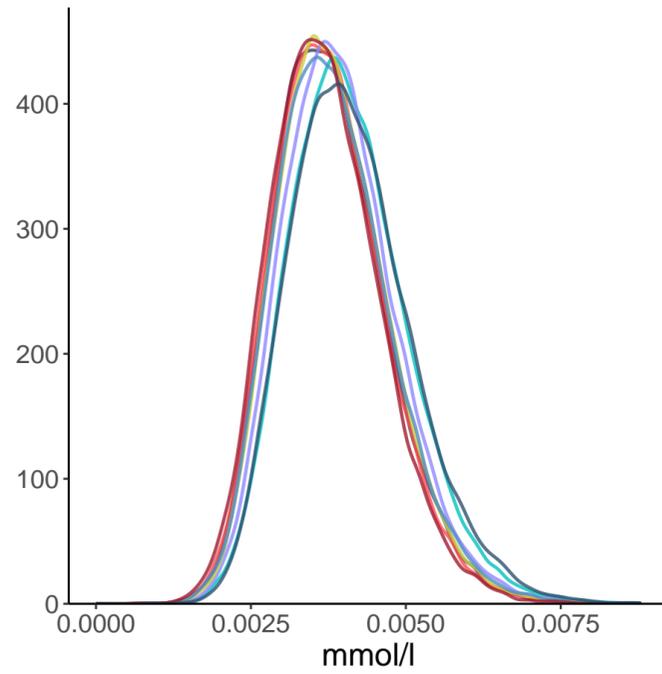
Spectrometer



Medium HDL (average diameter 10.9 nm)

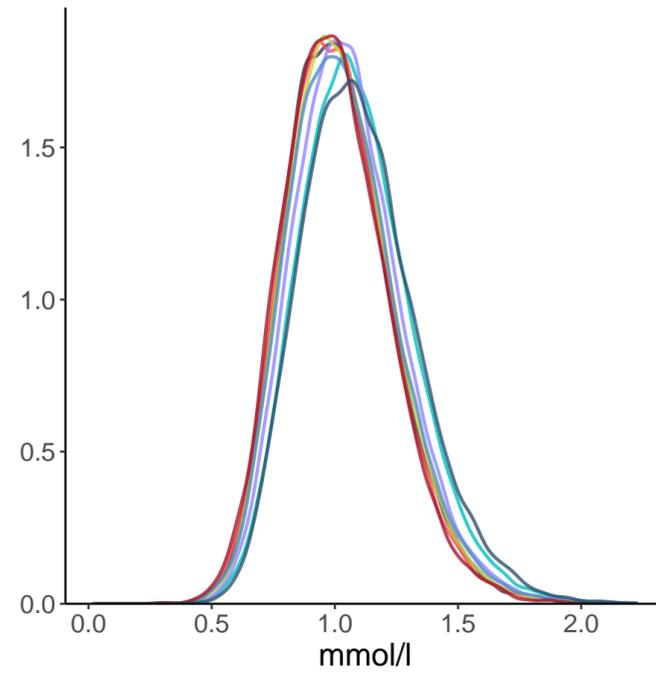
M_HDL_P

Spectrometer



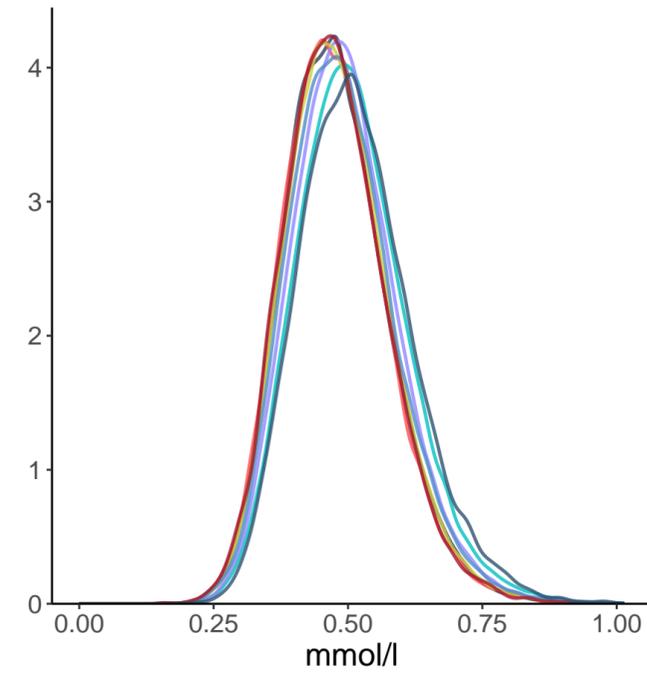
M_HDL_L

Spectrometer



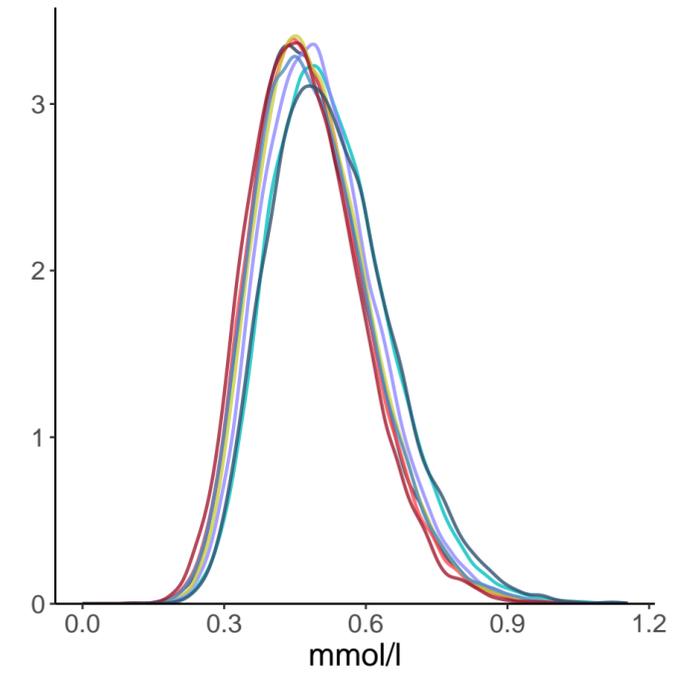
M_HDL_PL

Spectrometer



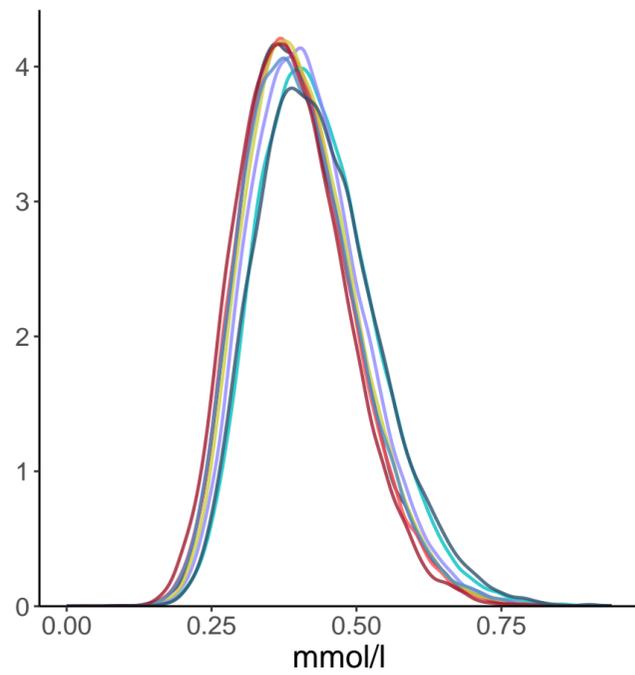
M_HDL_C

Spectrometer



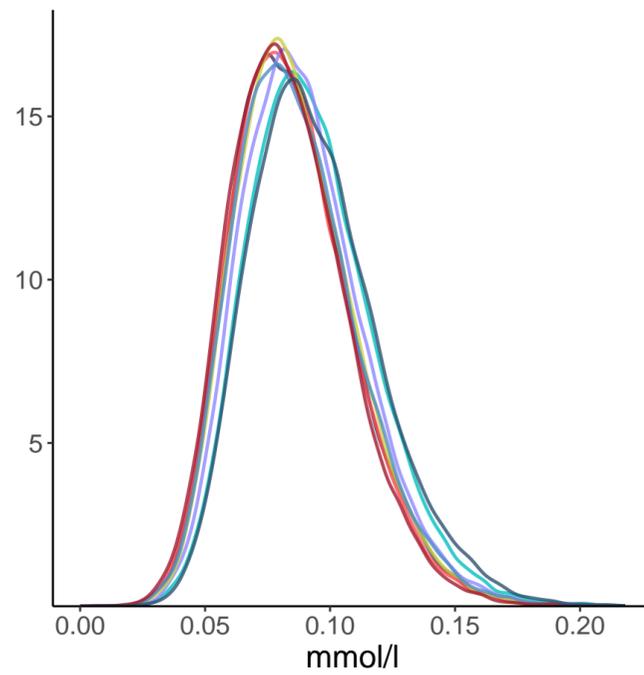
M_HDL_CE

Spectrometer



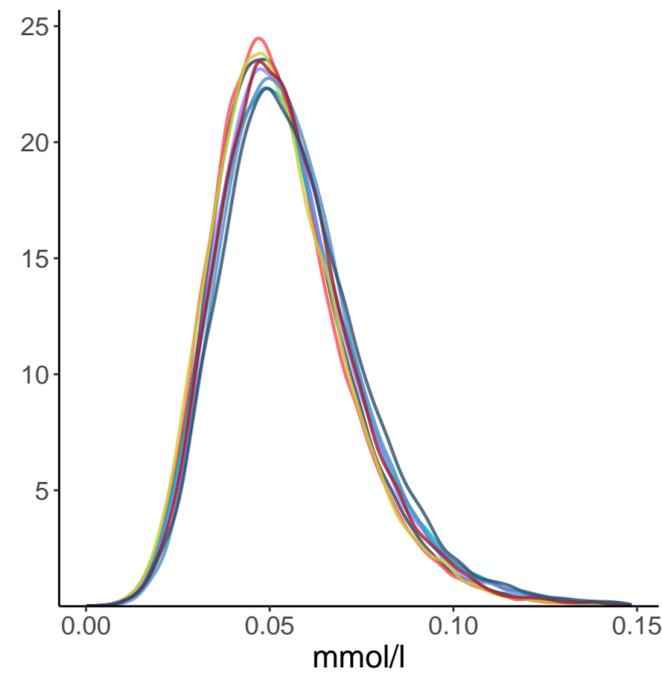
M_HDL_FC

Spectrometer



M_HDL_TG

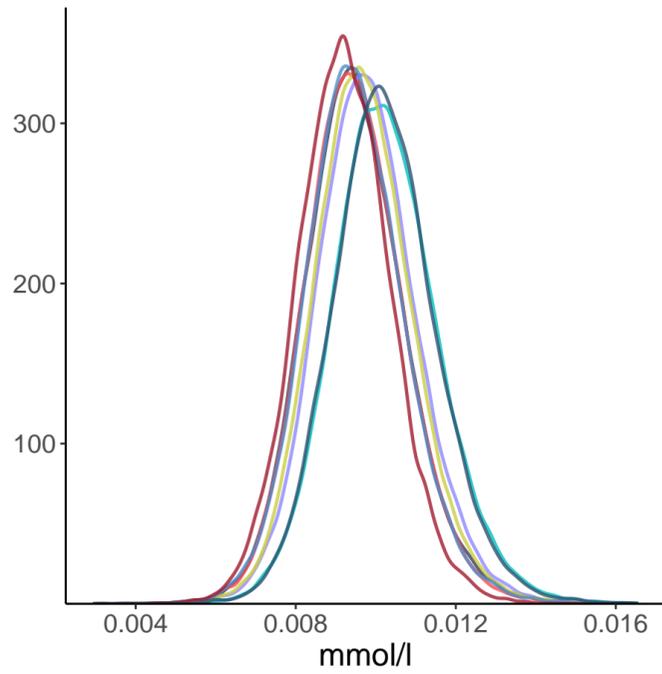
Spectrometer



Small HDL (average diameter 8.7 nm)

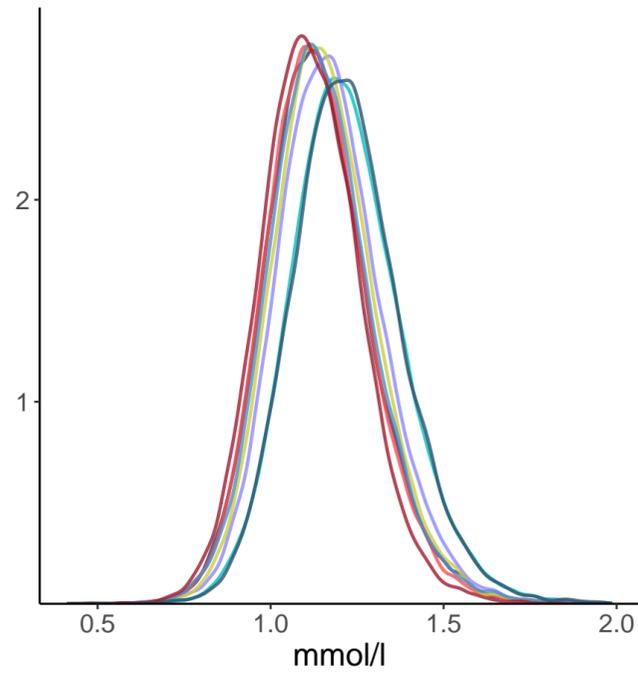
S_HDL_P

Spectrometer



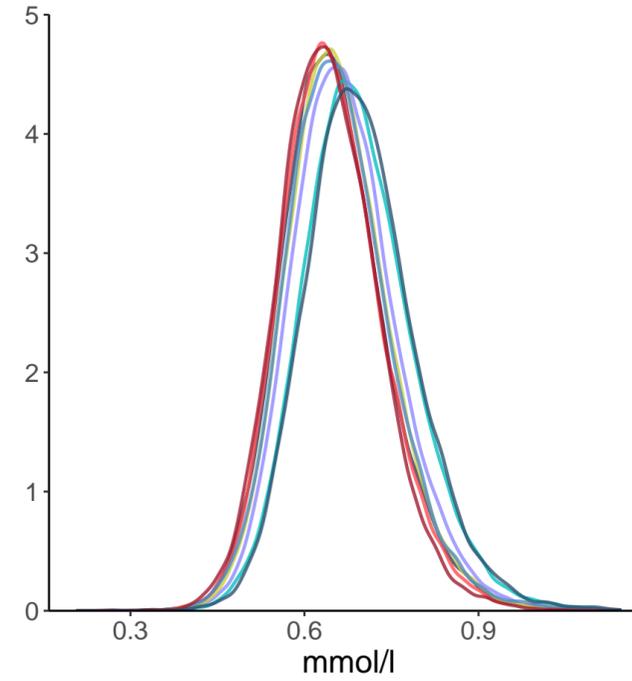
S_HDL_L

Spectrometer



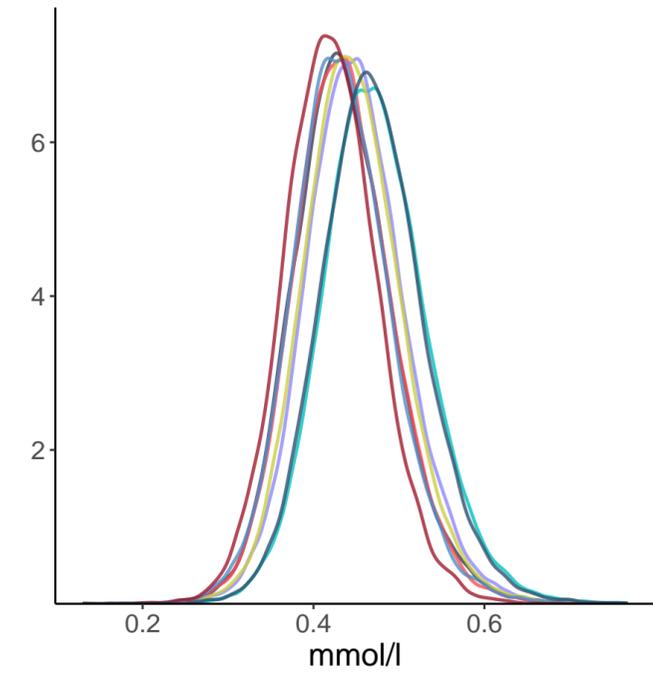
S_HDL_PL

Spectrometer



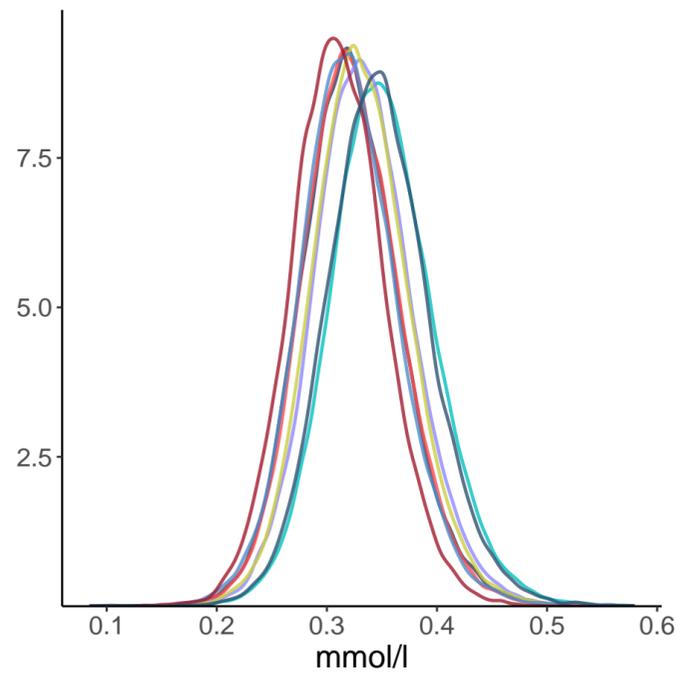
S_HDL_C

Spectrometer



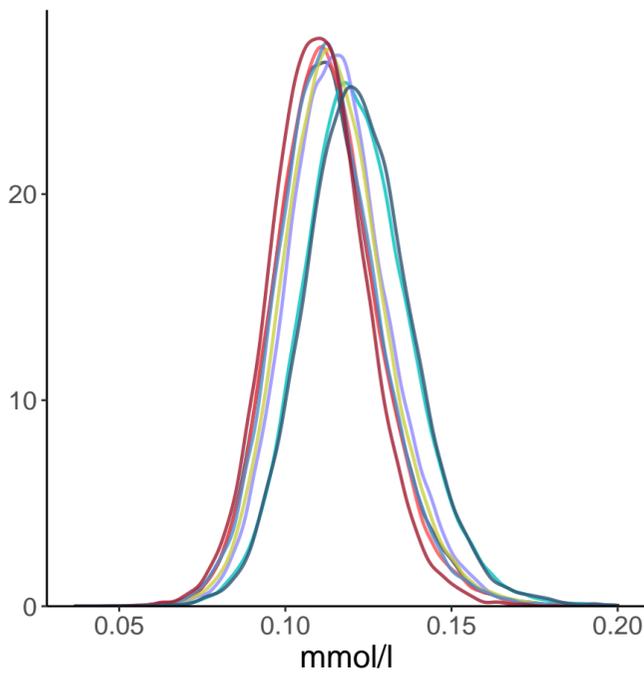
S_HDL_CE

Spectrometer



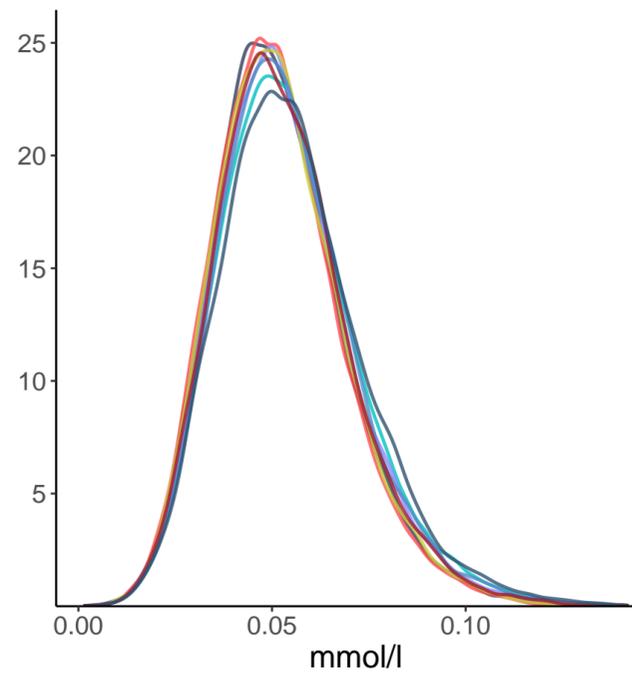
S_HDL_FC

Spectrometer



S_HDL_TG

Spectrometer

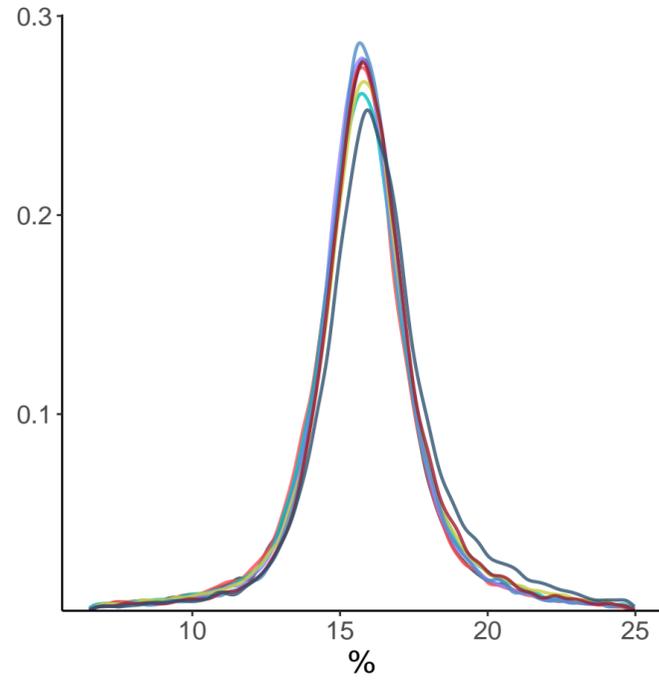


Chylomicrons and extremely large VLDL ratios

XXL_VLDL_PL_pct

Spectrometer

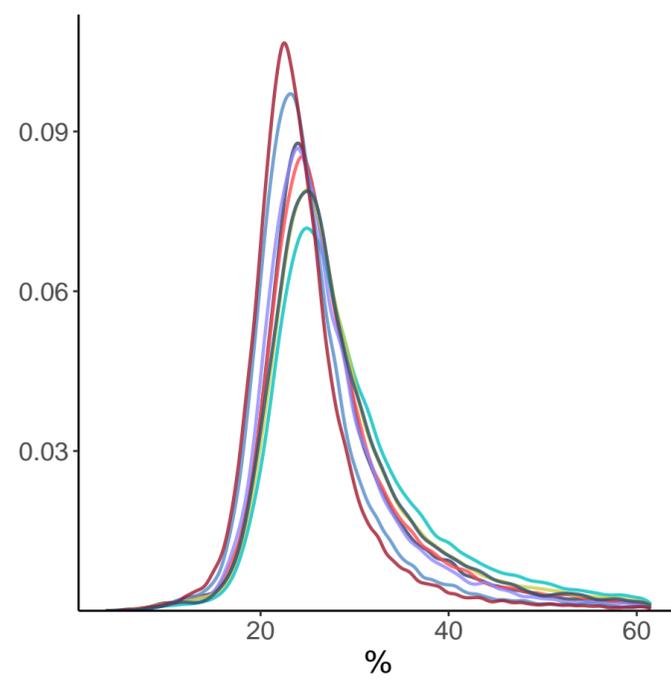
- 1 2 3 4
- 5 6 7 8



XXL_VLDL_C_pct

Spectrometer

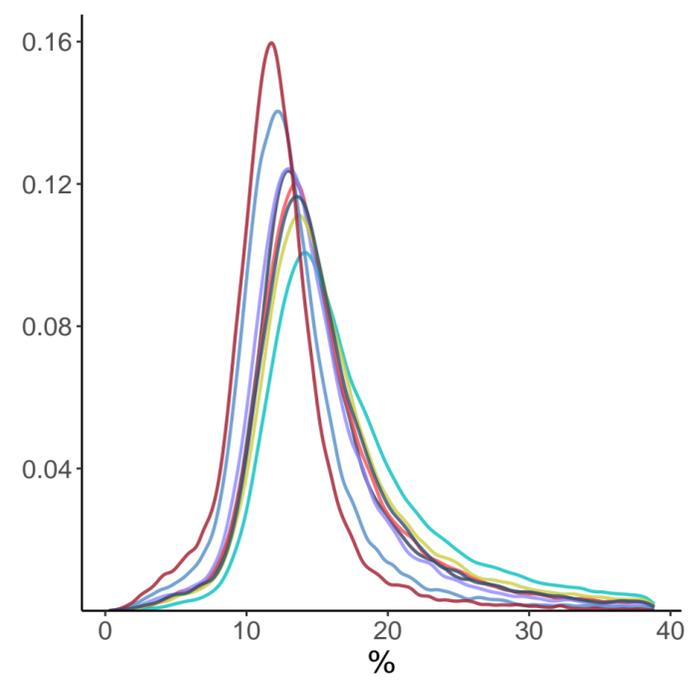
- 1 2 3 4
- 5 6 7 8



XXL_VLDL_CE_pct

Spectrometer

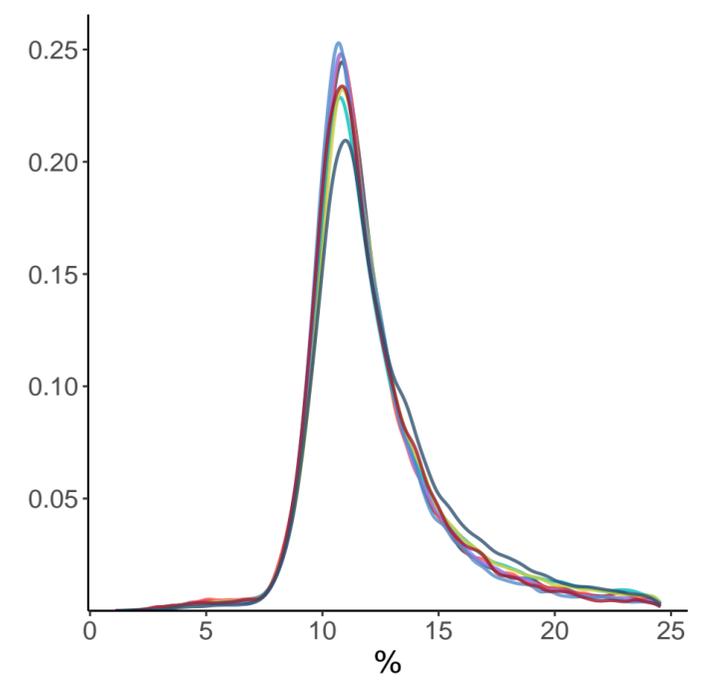
- 1 2 3 4
- 5 6 7 8



XXL_VLDL_FC_pct

Spectrometer

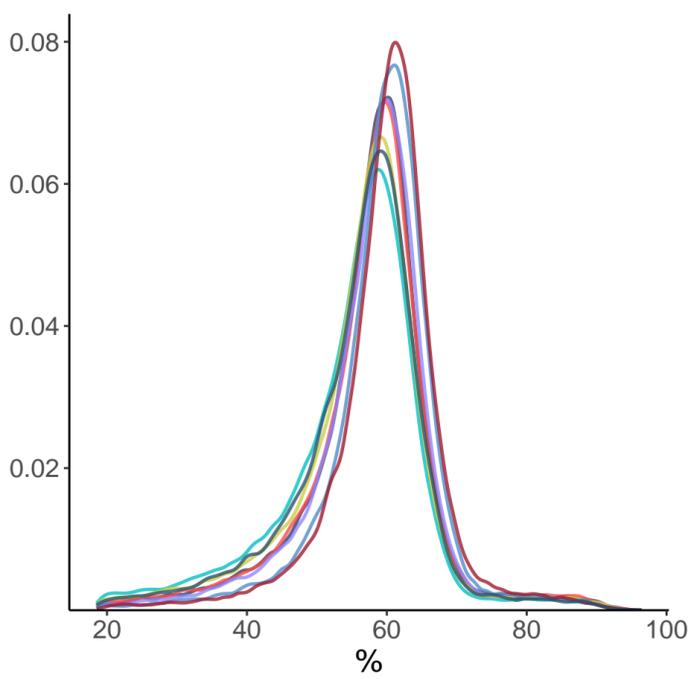
- 1 2 3 4
- 5 6 7 8



XXL_VLDL_TG_pct

Spectrometer

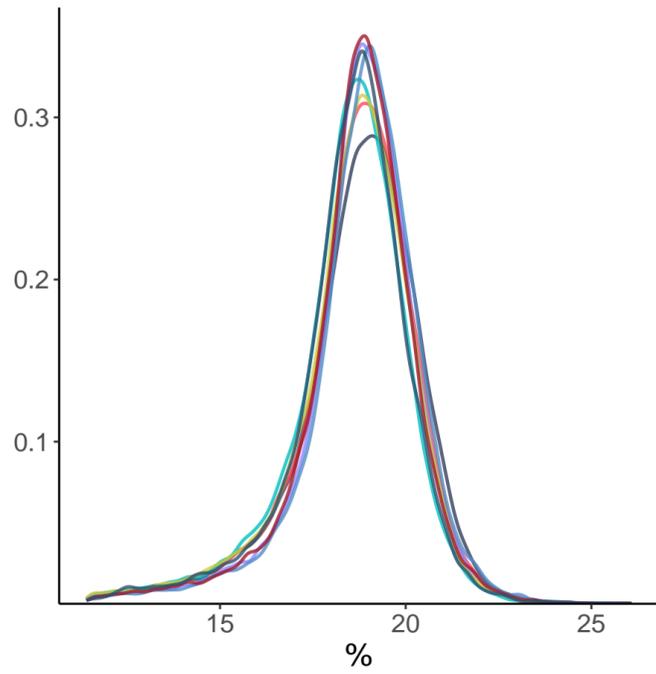
- 1 2 3 4
- 5 6 7 8



Very large VLDL ratios

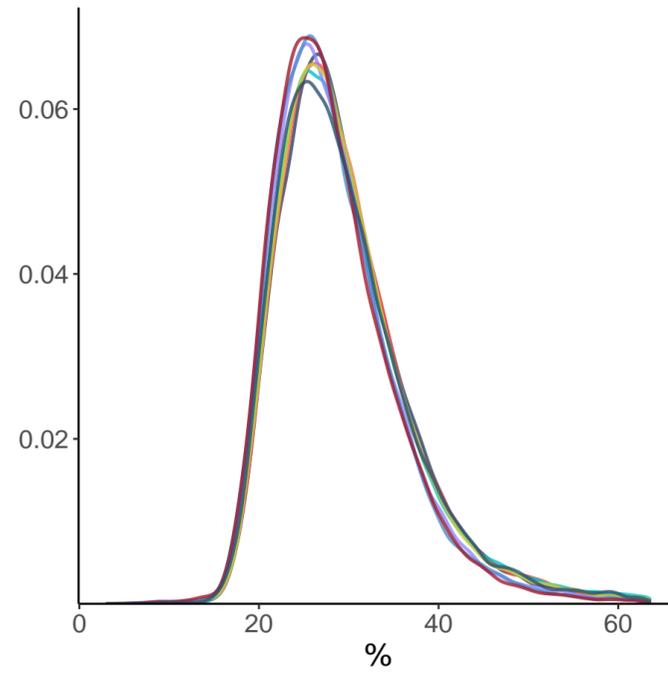
XL_VLDL_PL_pct

Spectrometer



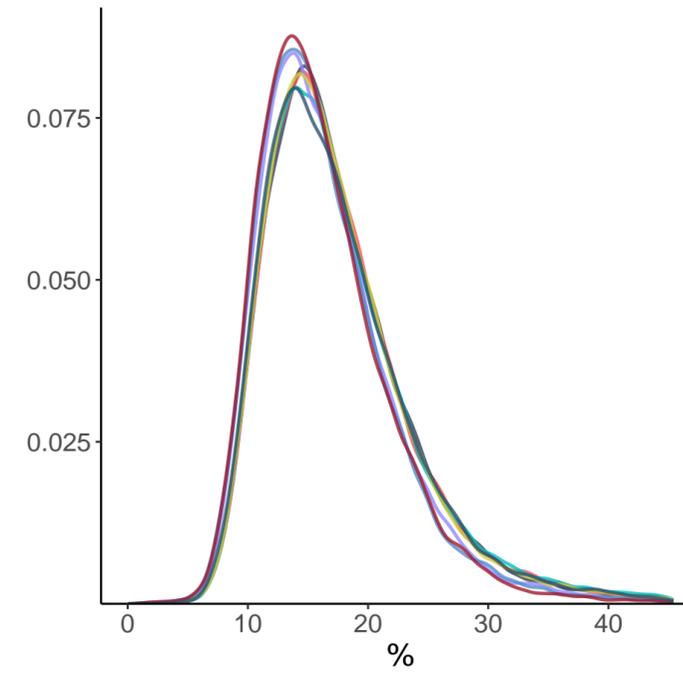
XL_VLDL_C_pct

Spectrometer



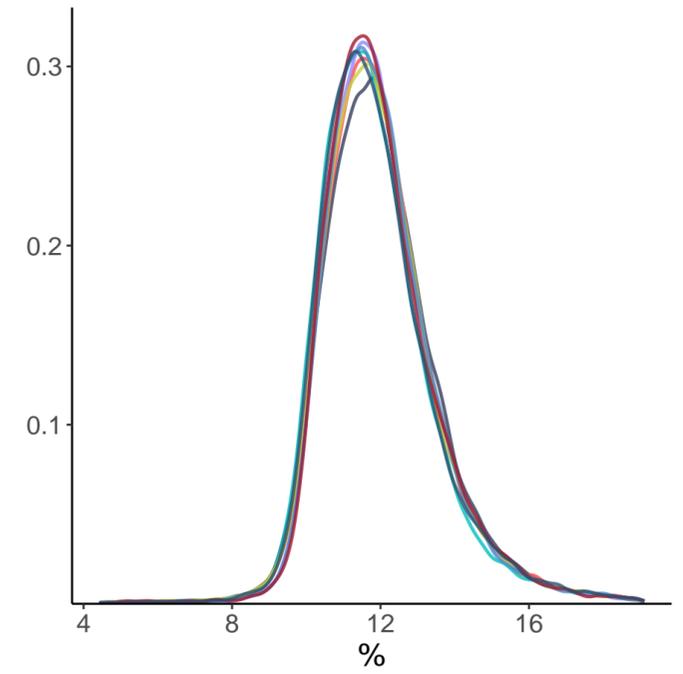
XL_VLDL_CE_pct

Spectrometer



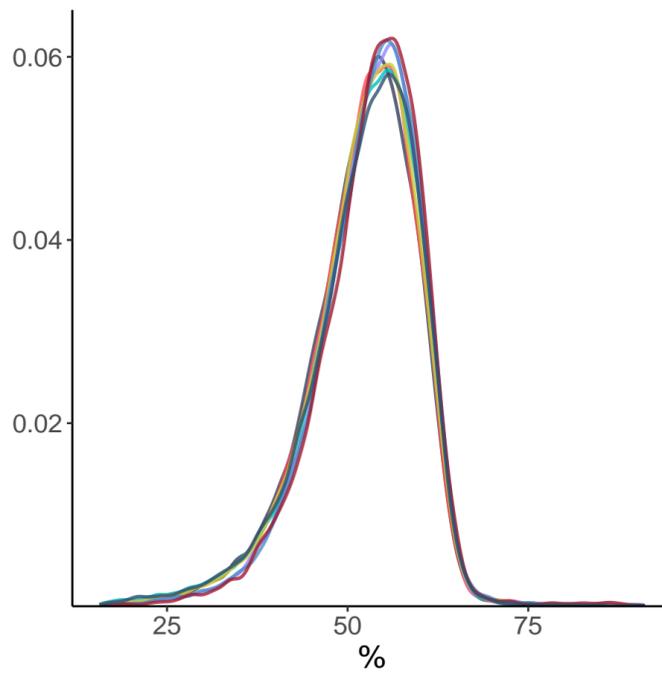
XL_VLDL_FC_pct

Spectrometer



XL_VLDL_TG_pct

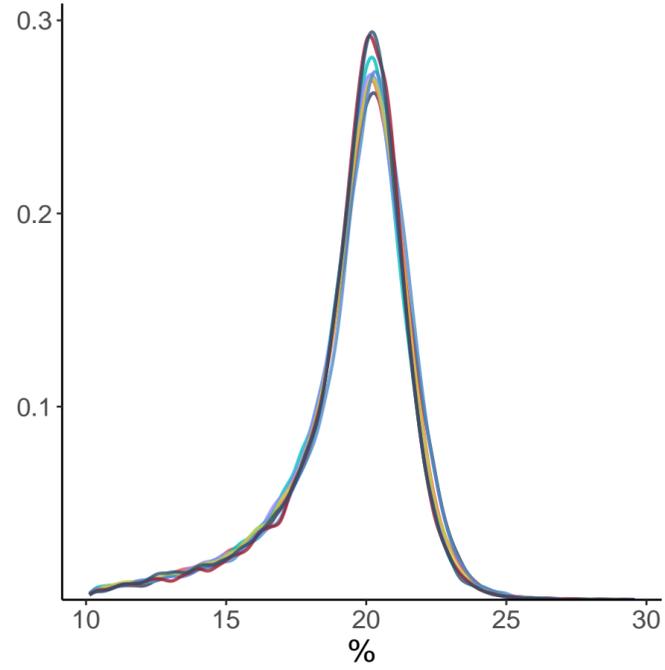
Spectrometer



Large VLDL ratios

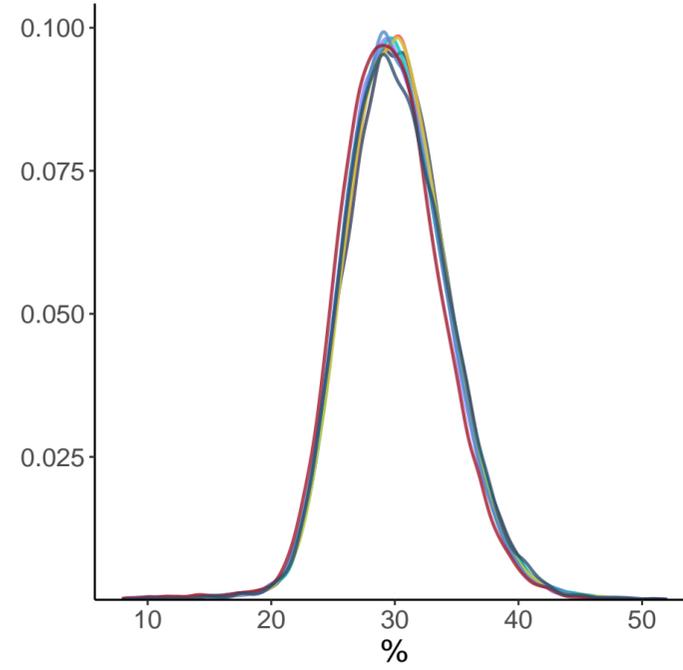
L_VLDL_PL_pct

Spectrometer



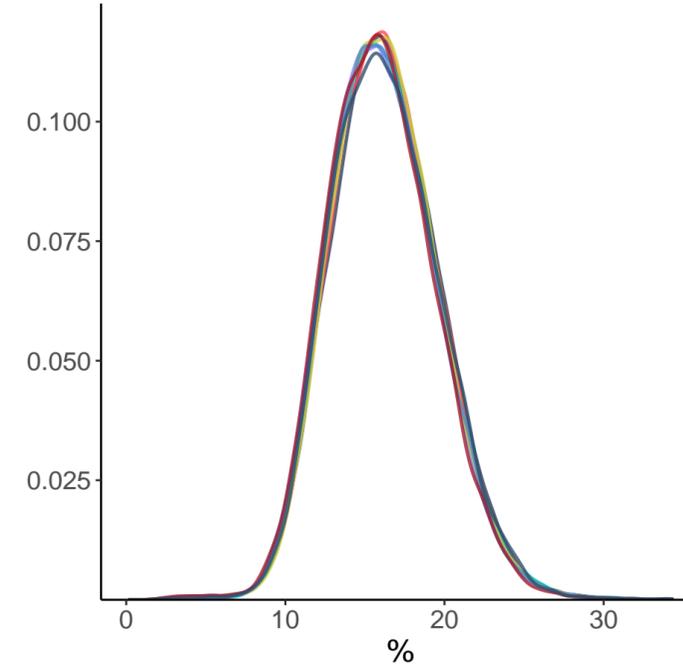
L_VLDL_C_pct

Spectrometer



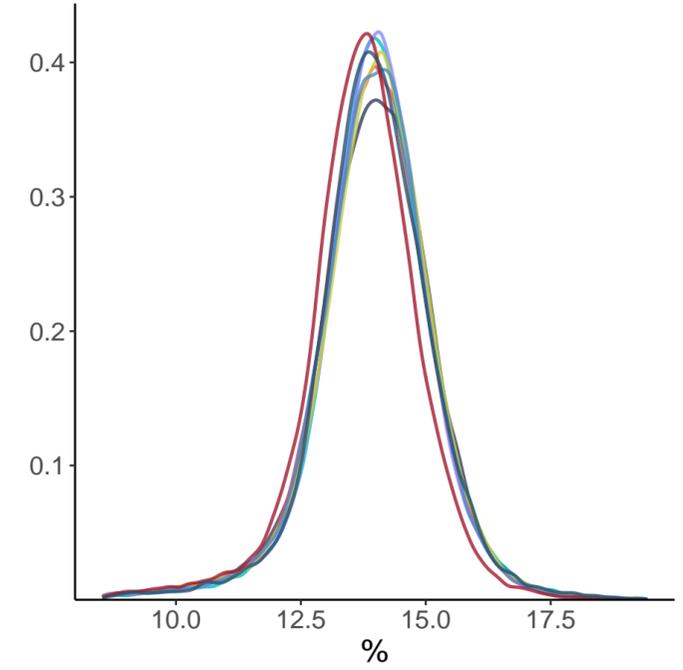
L_VLDL_CE_pct

Spectrometer



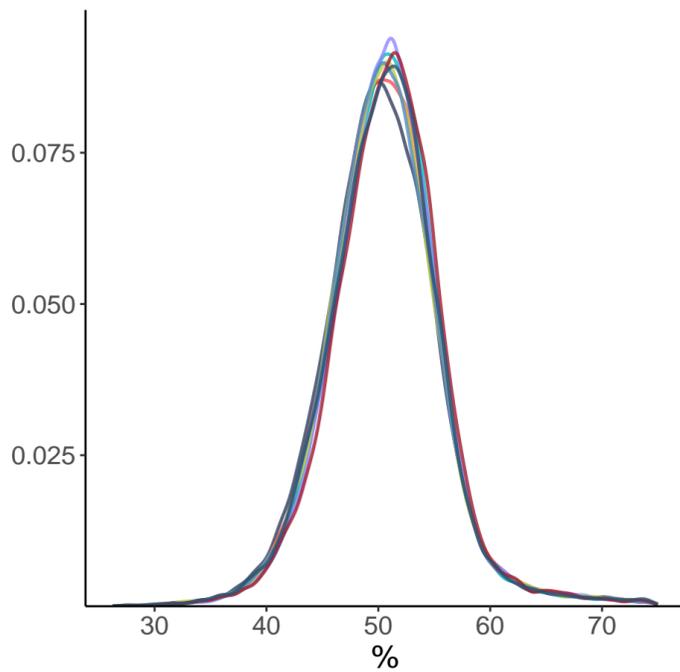
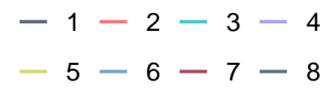
L_VLDL_FC_pct

Spectrometer



L_VLDL_TG_pct

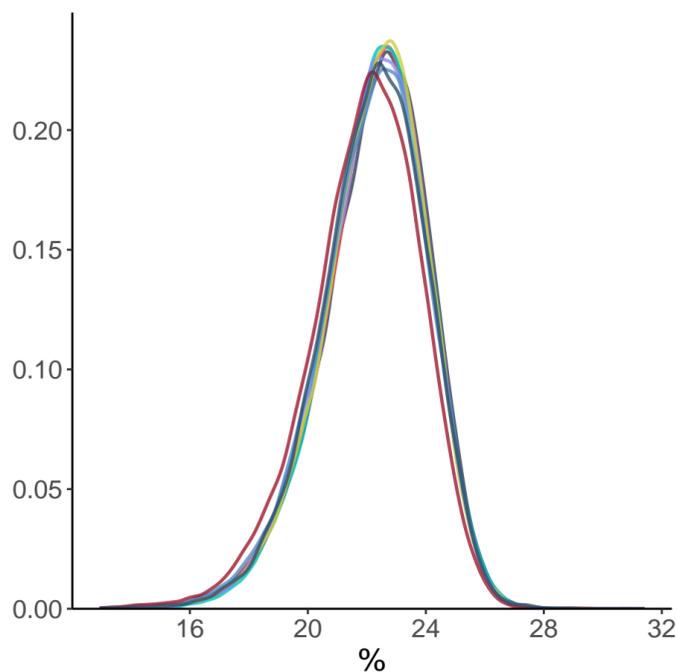
Spectrometer



Medium VLDL ratios

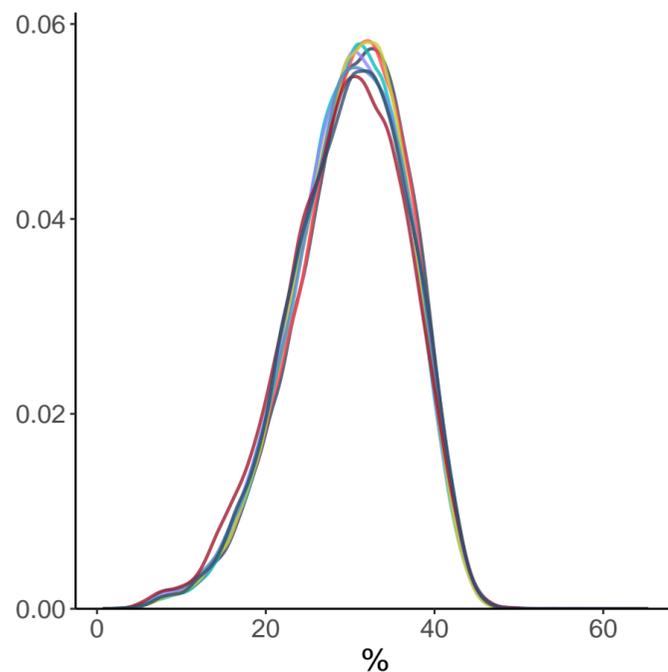
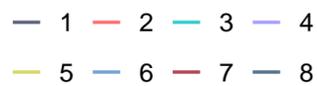
M_VLDL_PL_pct

Spectrometer



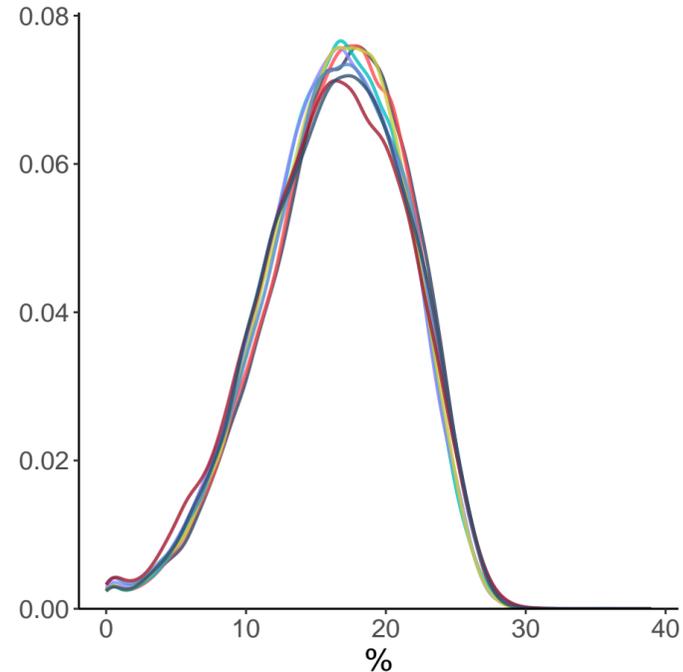
M_VLDL_C_pct

Spectrometer



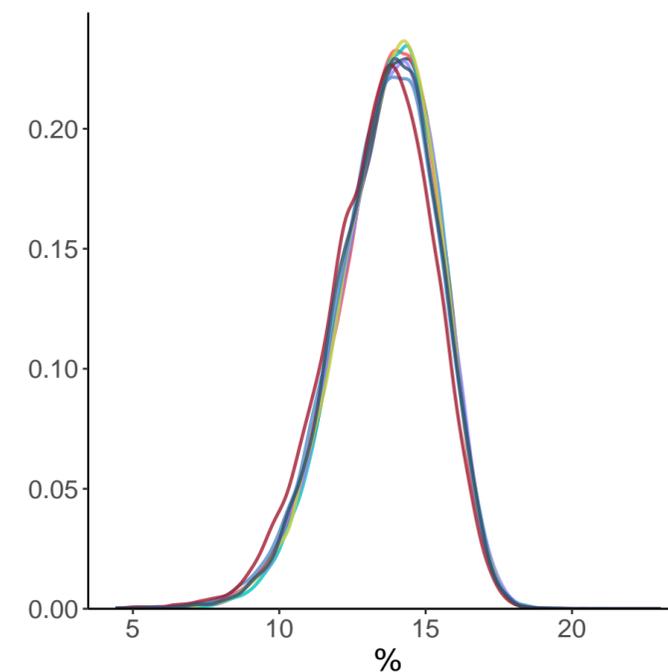
M_VLDL_CE_pct

Spectrometer



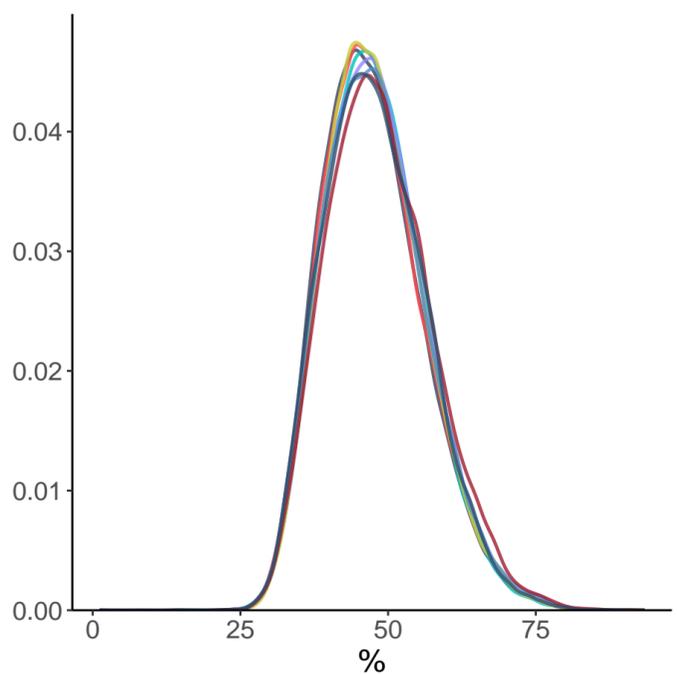
M_VLDL_FC_pct

Spectrometer



M_VLDL_TG_pct

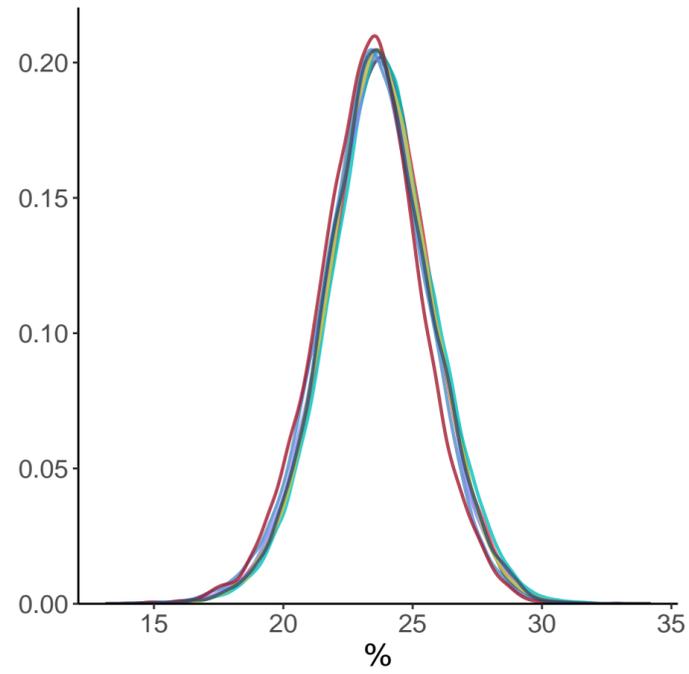
Spectrometer



Small VLDL ratios

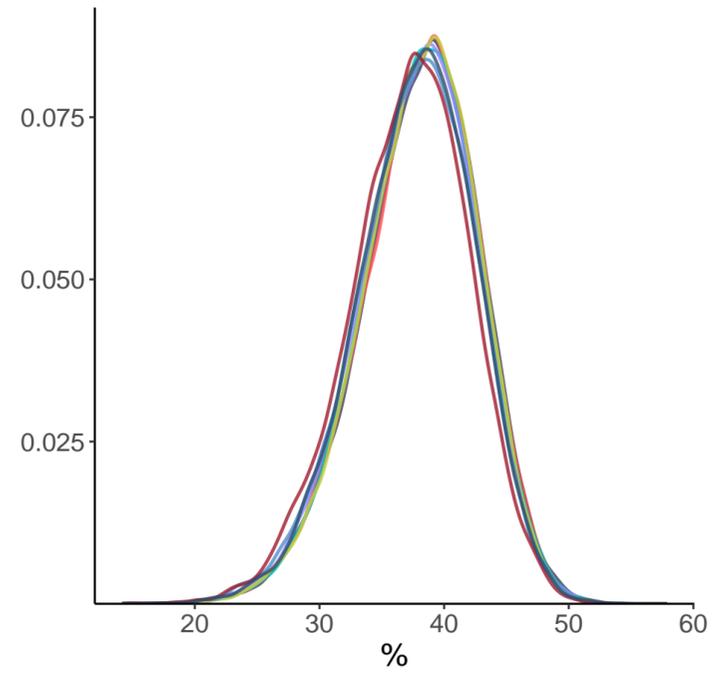
S_VLDL_PL_pct

Spectrometer



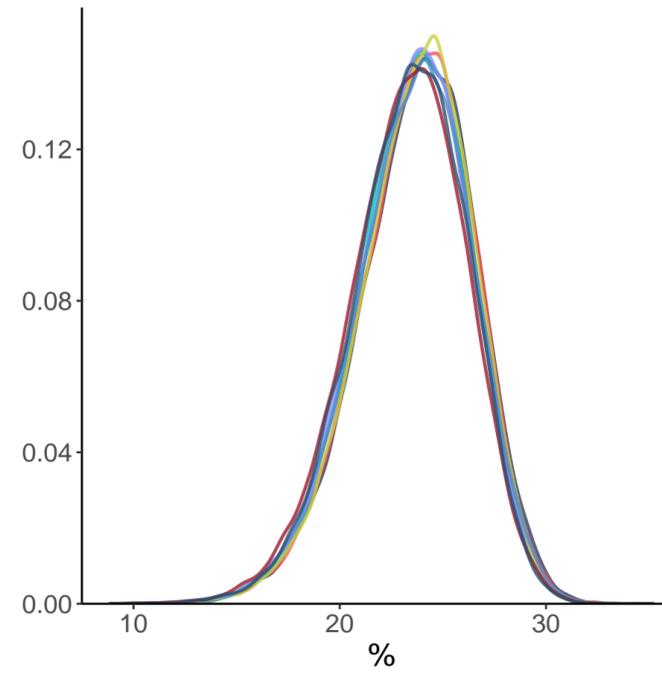
S_VLDL_C_pct

Spectrometer



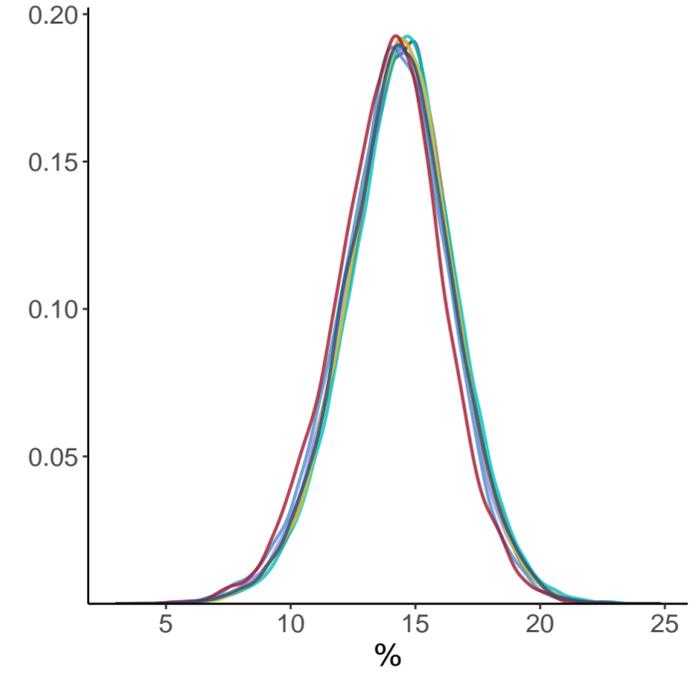
S_VLDL_CE_pct

Spectrometer



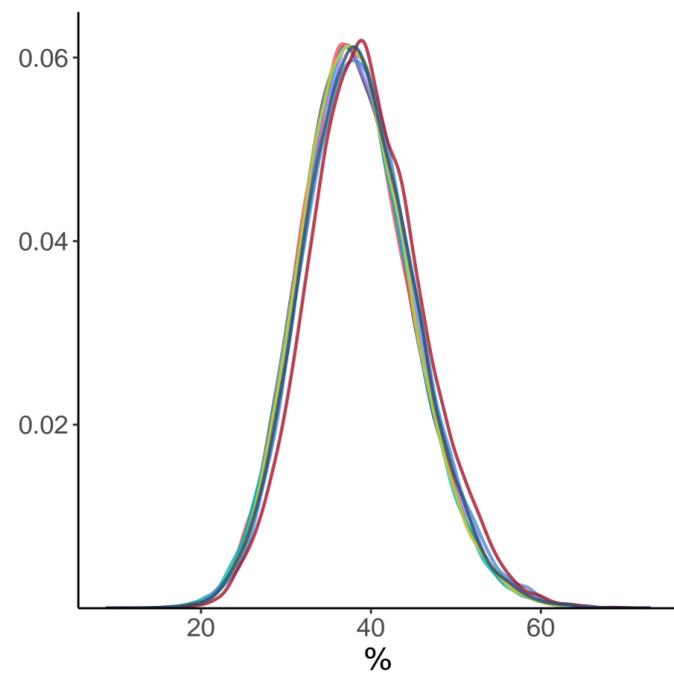
S_VLDL_FC_pct

Spectrometer



S_VLDL_TG_pct

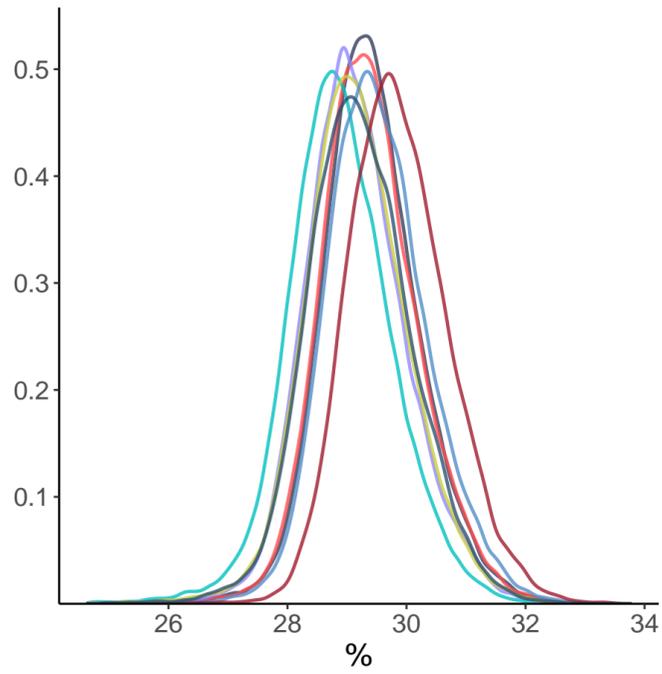
Spectrometer



Very small VLDL ratios

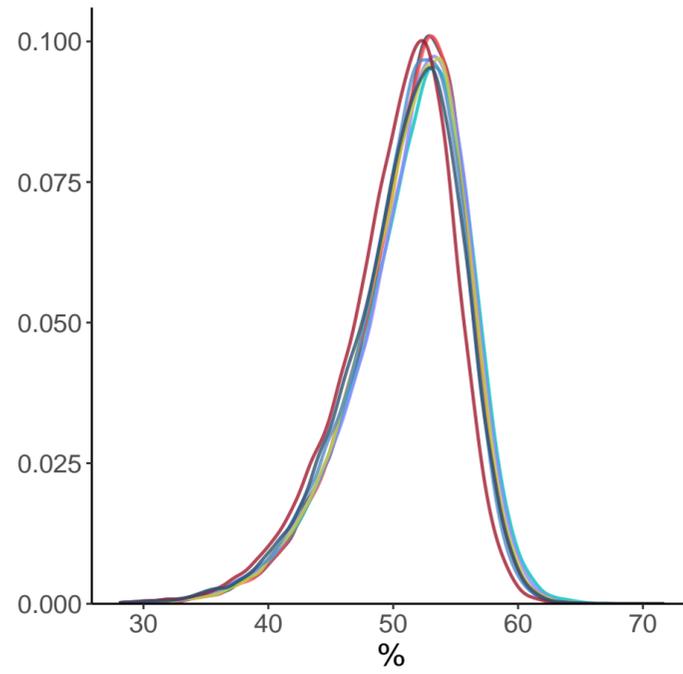
XS_VLDL_PL_pct

Spectrometer



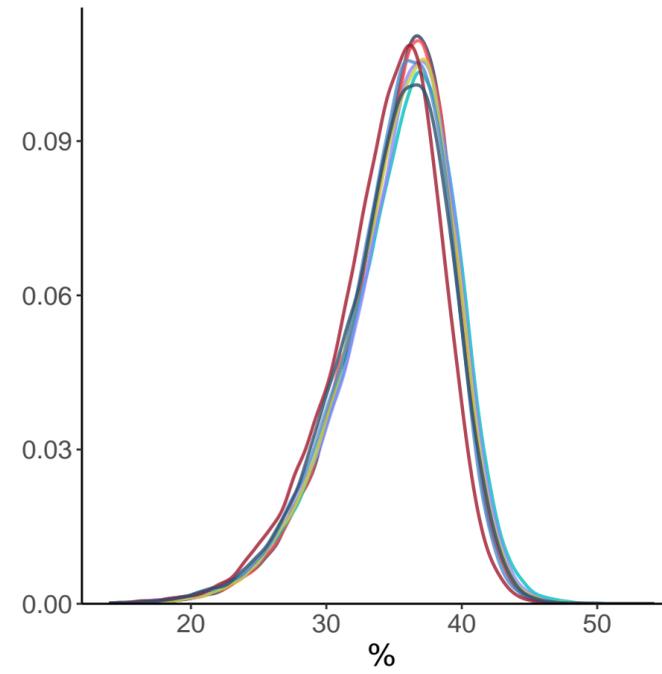
XS_VLDL_C_pct

Spectrometer



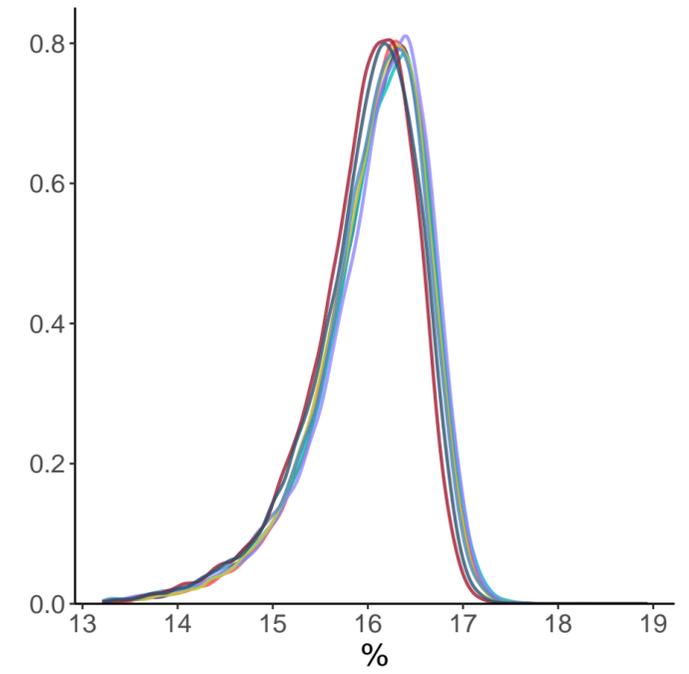
XS_VLDL_CE_pct

Spectrometer



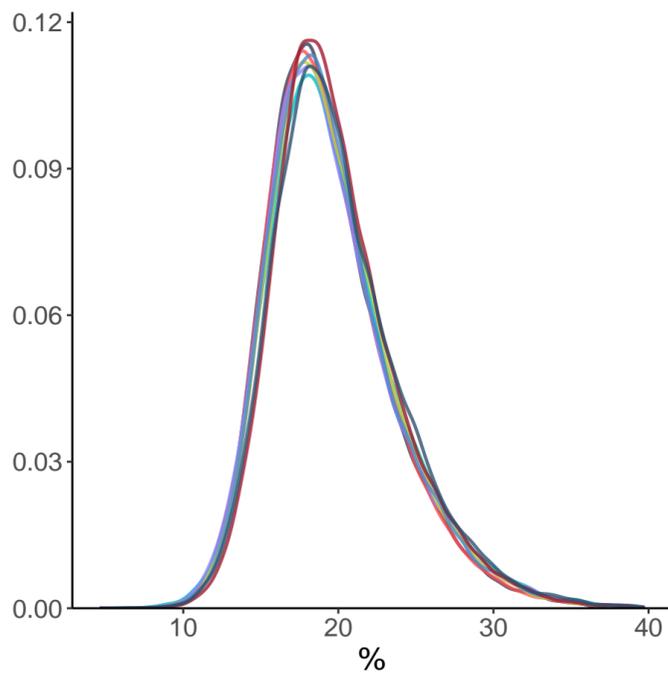
XS_VLDL_FC_pct

Spectrometer



XS_VLDL_TG_pct

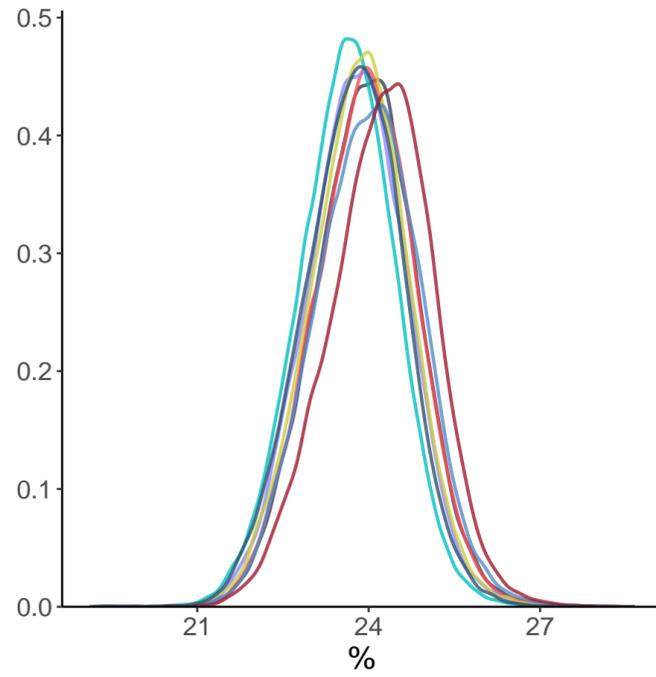
Spectrometer



IDL ratios

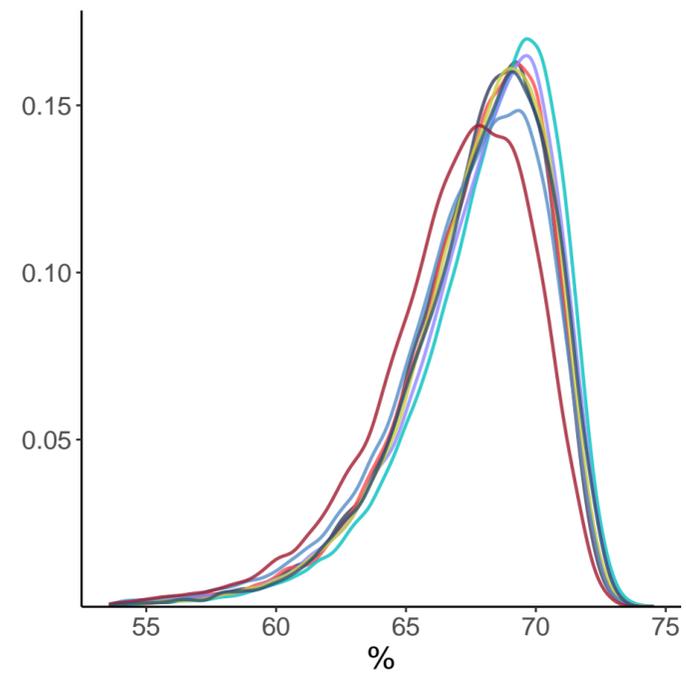
IDL_PL_pct

Spectrometer



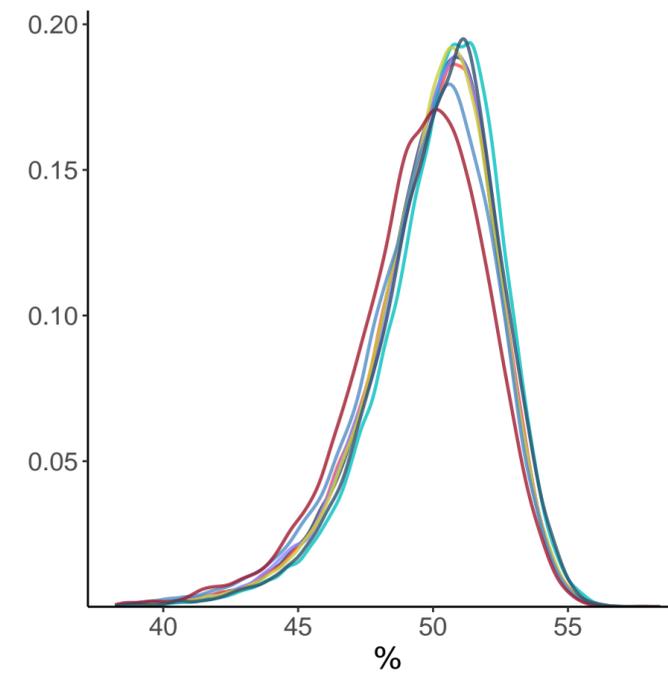
IDL_C_pct

Spectrometer



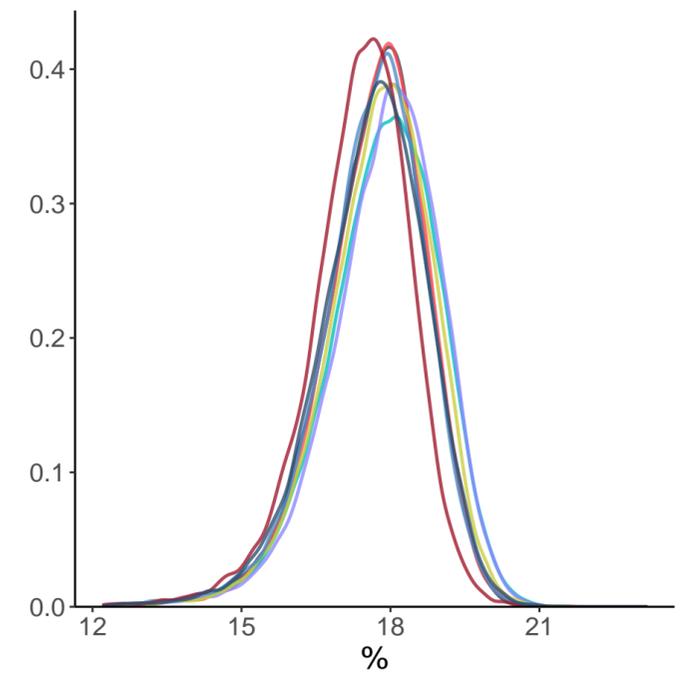
IDL_CE_pct

Spectrometer



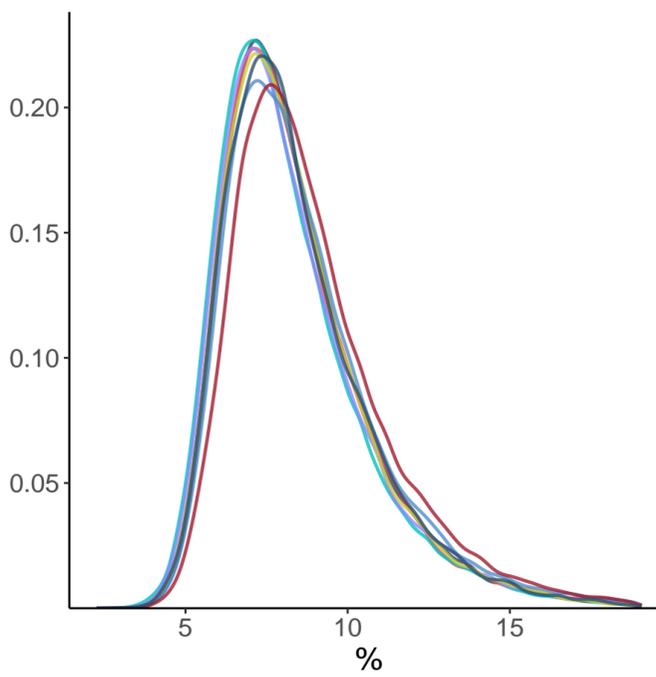
IDL_FC_pct

Spectrometer



IDL_TG_pct

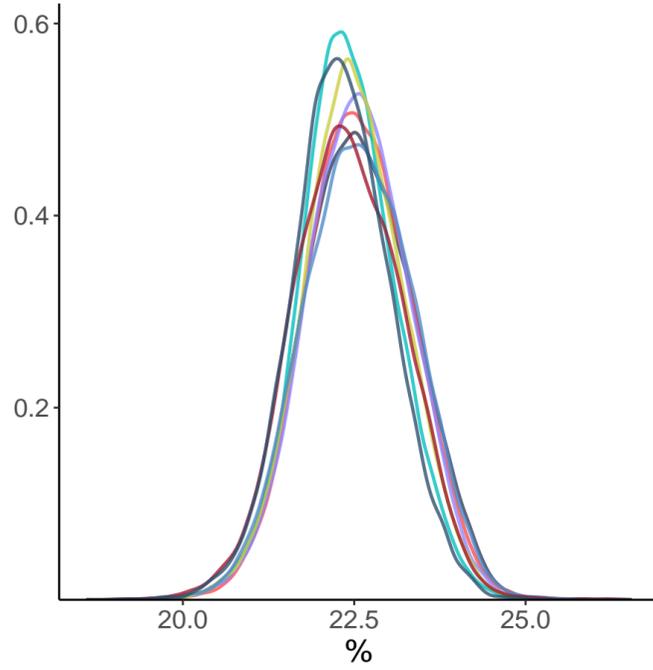
Spectrometer



Large LDL ratios

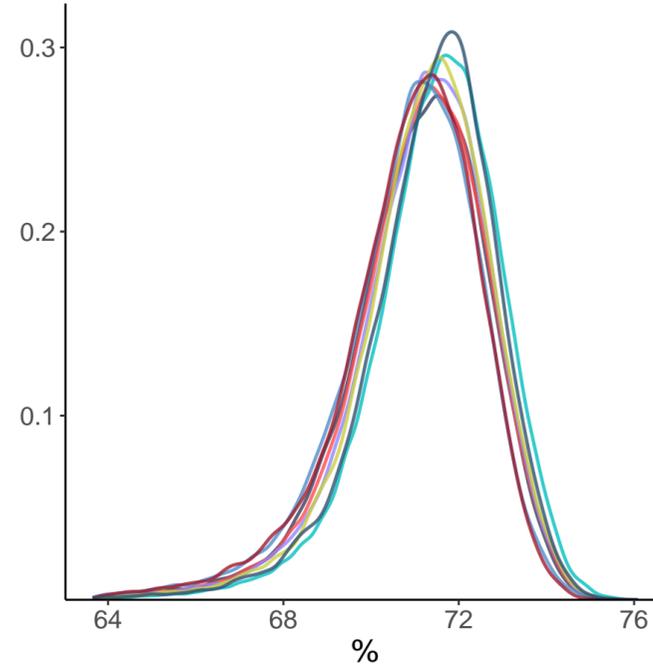
L_LDL_PL_pct

Spectrometer



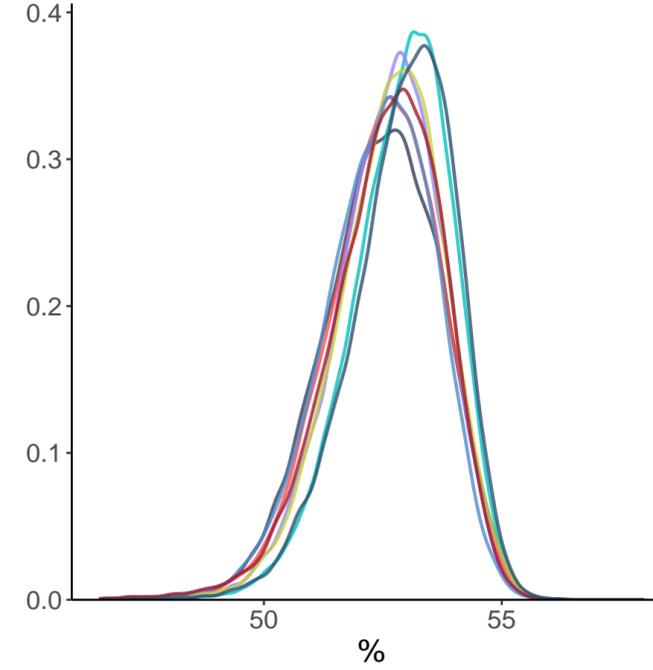
L_LDL_C_pct

Spectrometer



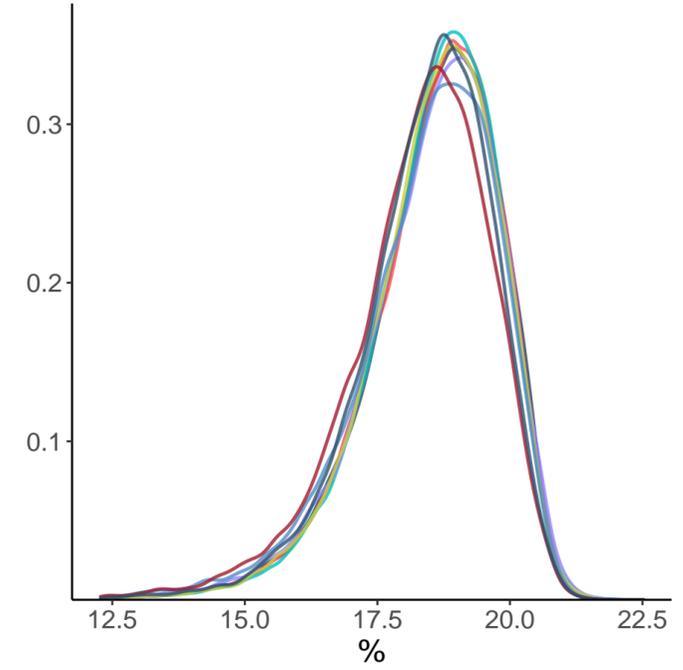
L_LDL_CE_pct

Spectrometer



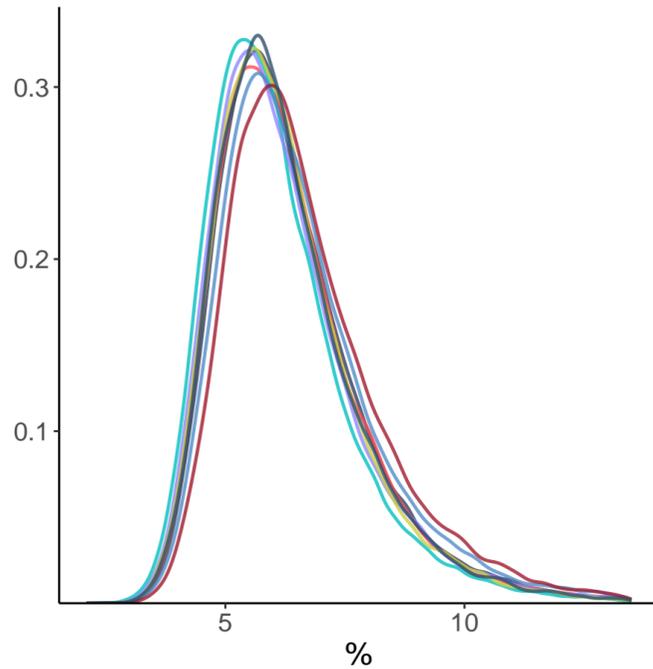
L_LDL_FC_pct

Spectrometer



L_LDL_TG_pct

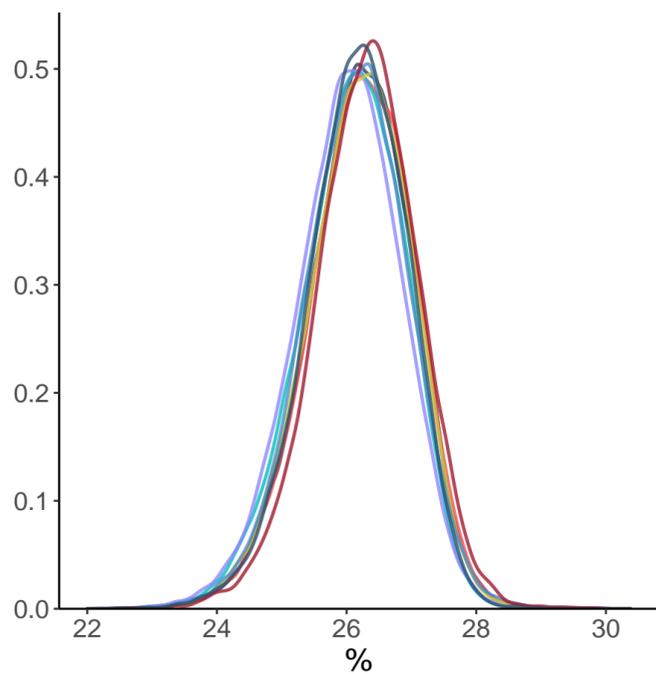
Spectrometer



Medium LDL ratios

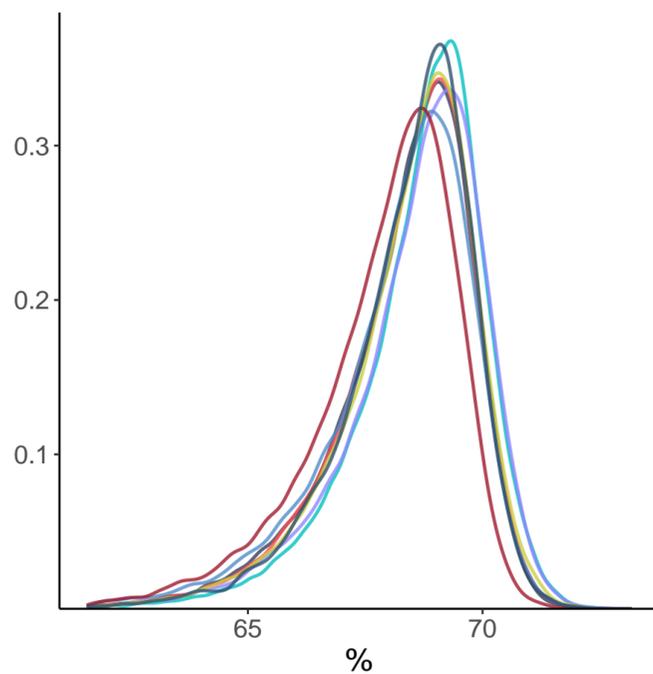
M_LDL_PL_pct

Spectrometer



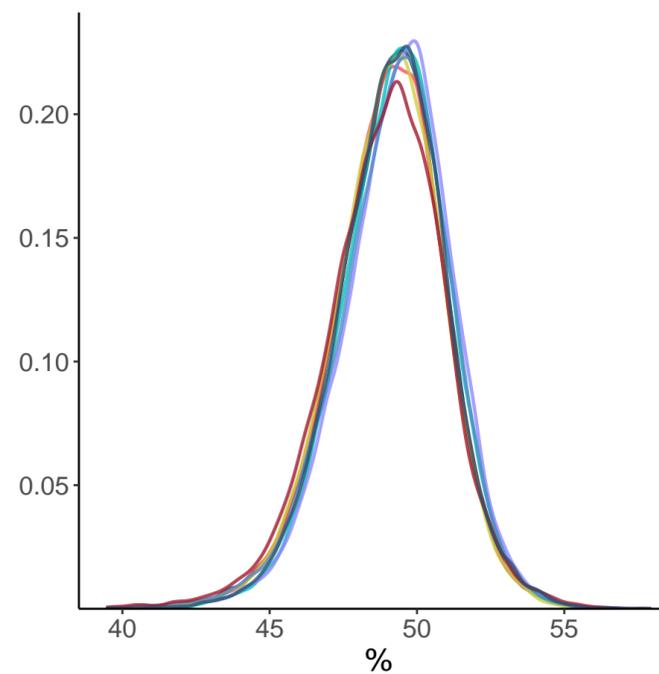
M_LDL_C_pct

Spectrometer



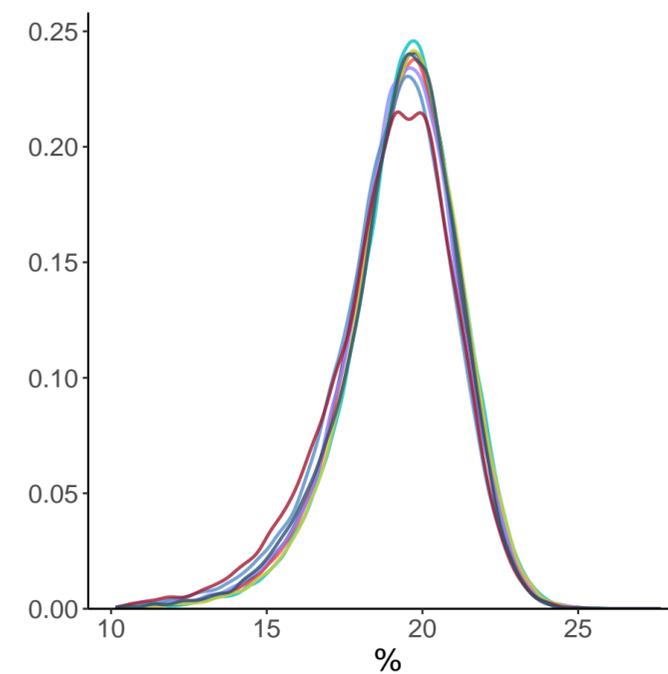
M_LDL_CE_pct

Spectrometer



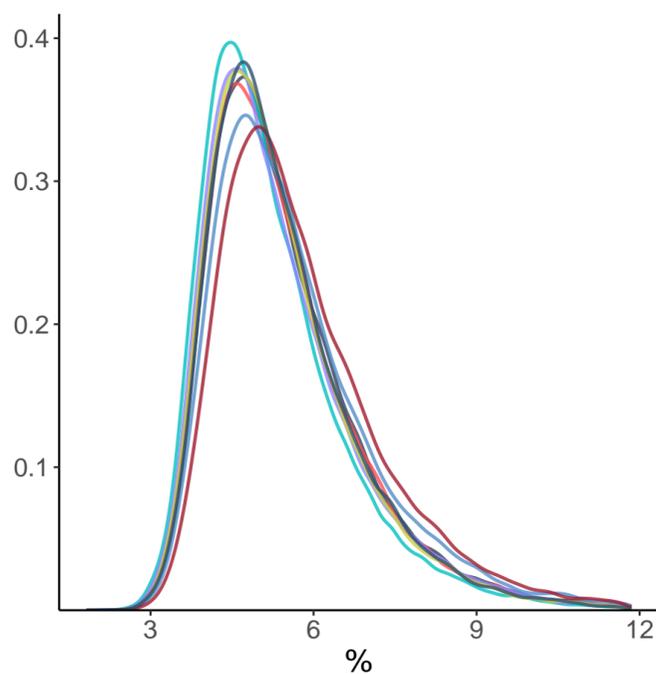
M_LDL_FC_pct

Spectrometer



M_LDL_TG_pct

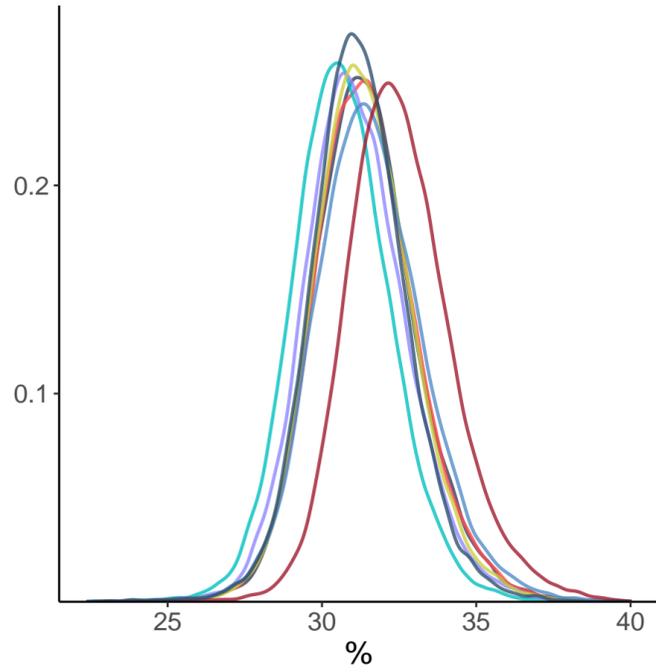
Spectrometer



Small LDL ratios

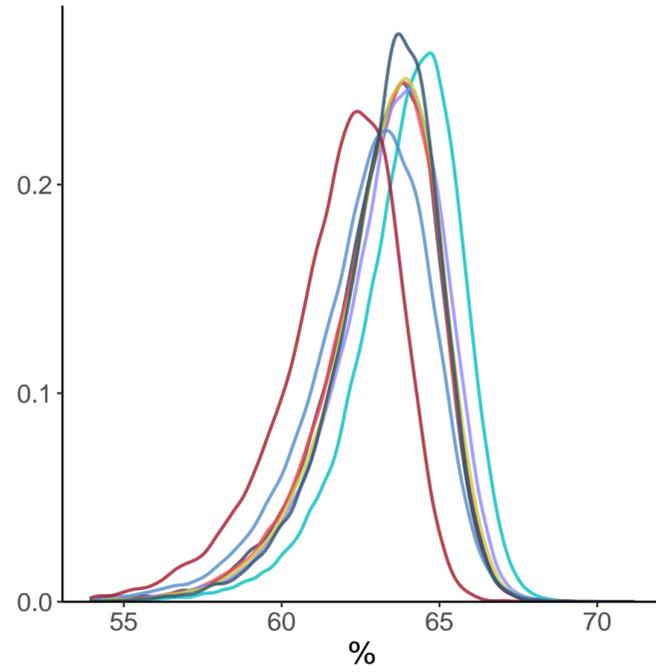
S_LDL_PL_pct

Spectrometer



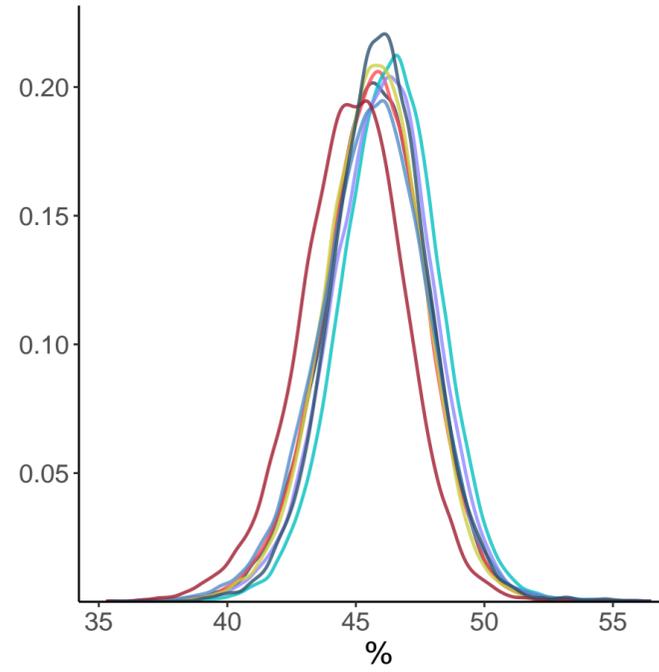
S_LDL_C_pct

Spectrometer



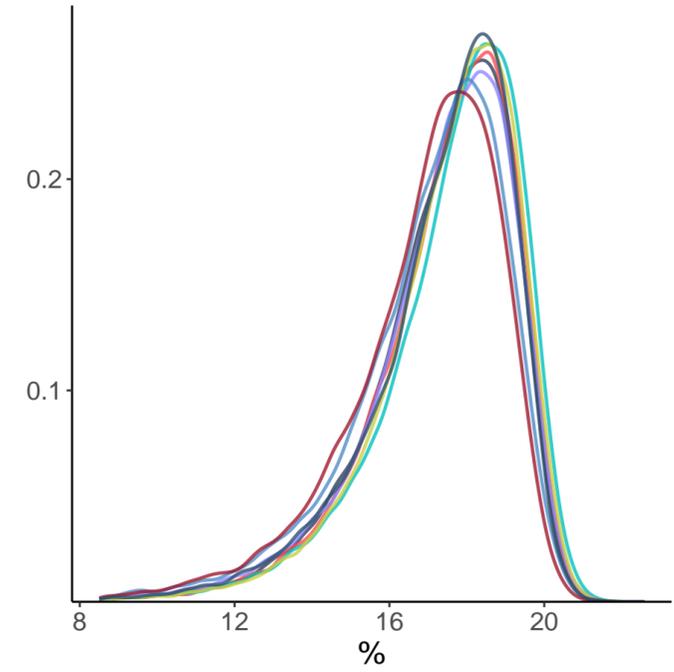
S_LDL_CE_pct

Spectrometer



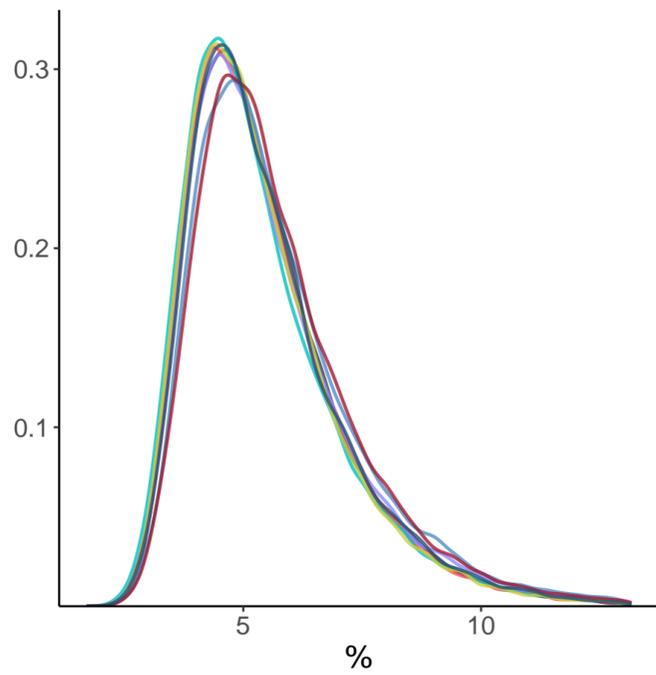
S_LDL_FC_pct

Spectrometer



S_LDL_TG_pct

Spectrometer

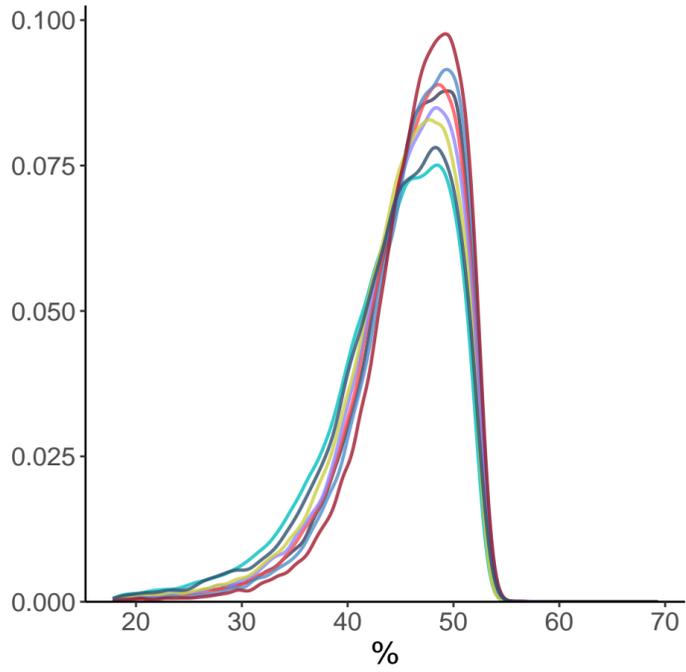


Very large HDL ratios

XL_HDL_PL_pct

Spectrometer

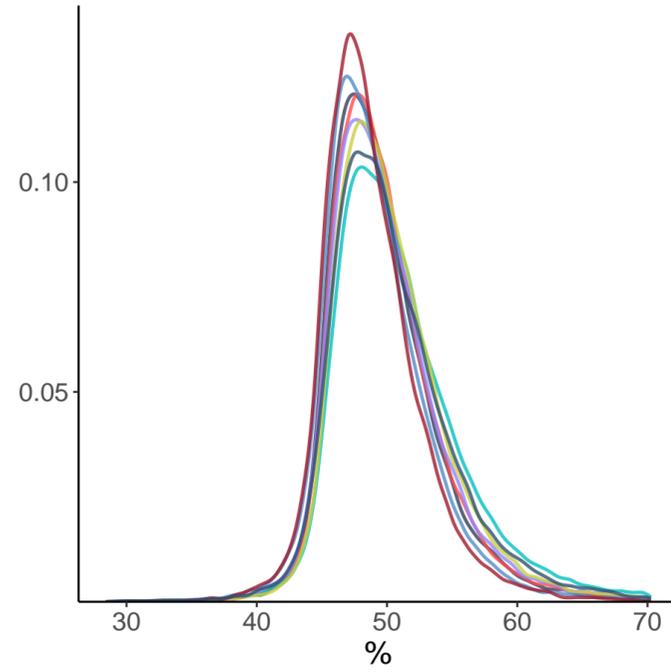
- 1 2 3 4
- 5 6 7 8



XL_HDL_C_pct

Spectrometer

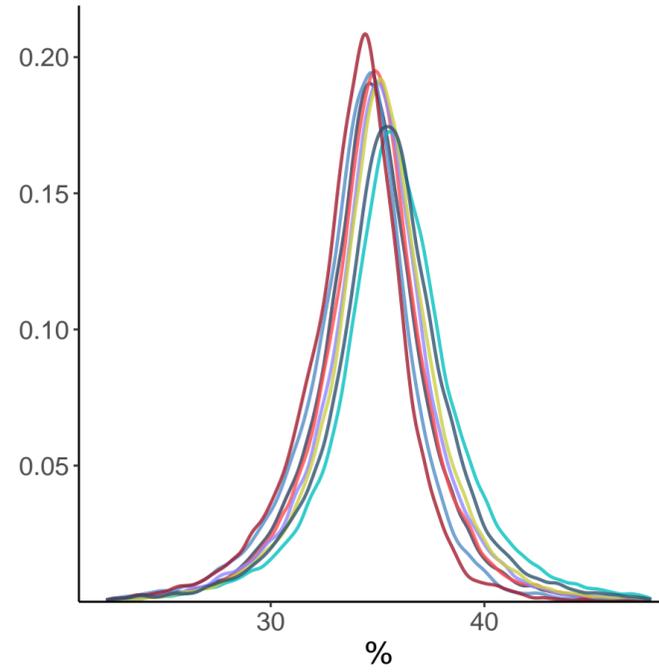
- 1 2 3 4
- 5 6 7 8



XL_HDL_CE_pct

Spectrometer

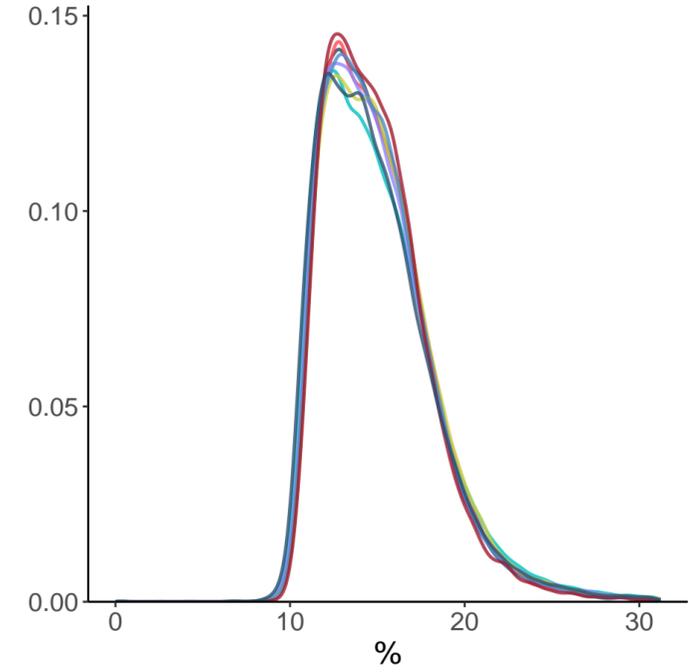
- 1 2 3 4
- 5 6 7 8



XL_HDL_FC_pct

Spectrometer

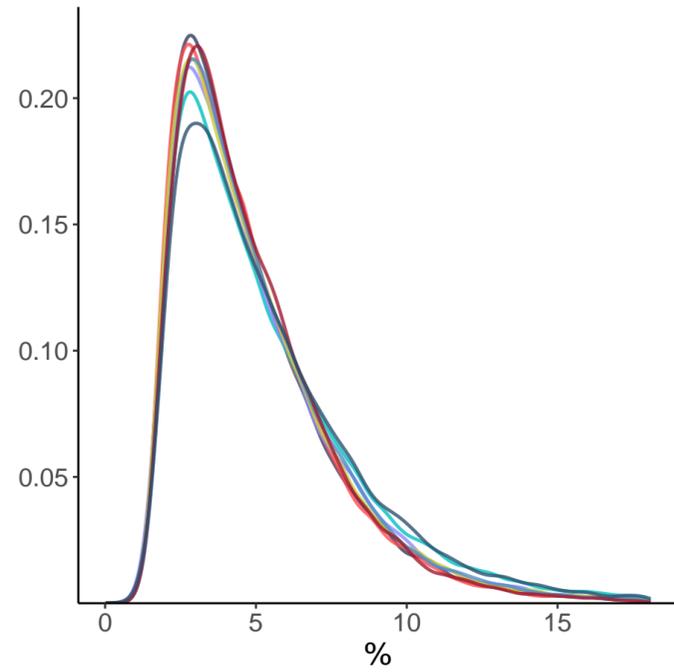
- 1 2 3 4
- 5 6 7 8



XL_HDL_TG_pct

Spectrometer

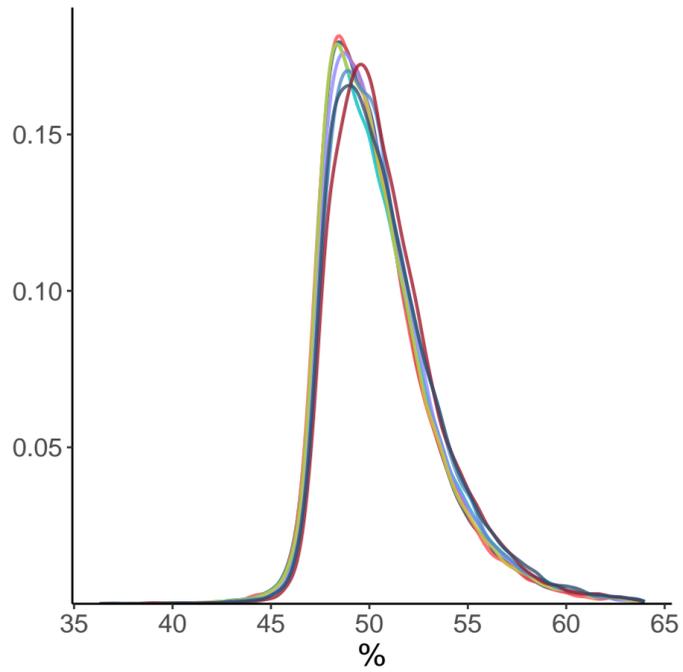
- 1 2 3 4
- 5 6 7 8



Large HDL ratios

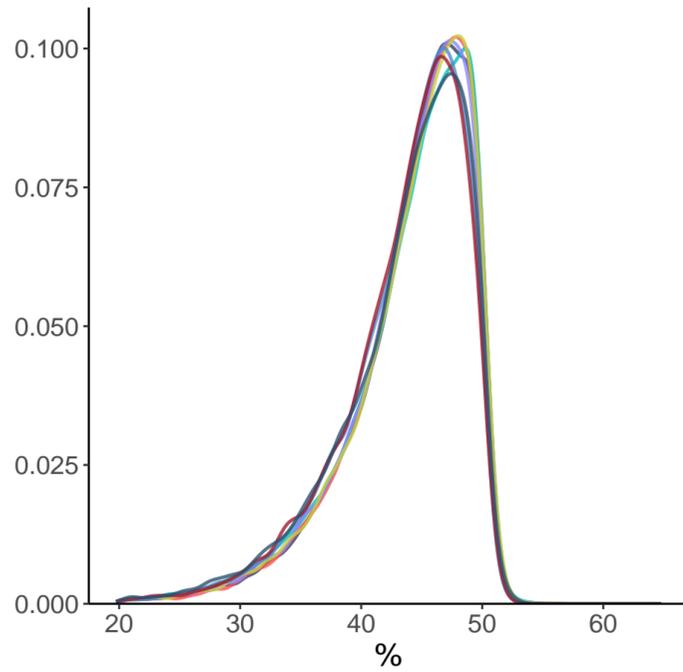
L_HDL_PL_pct

Spectrometer



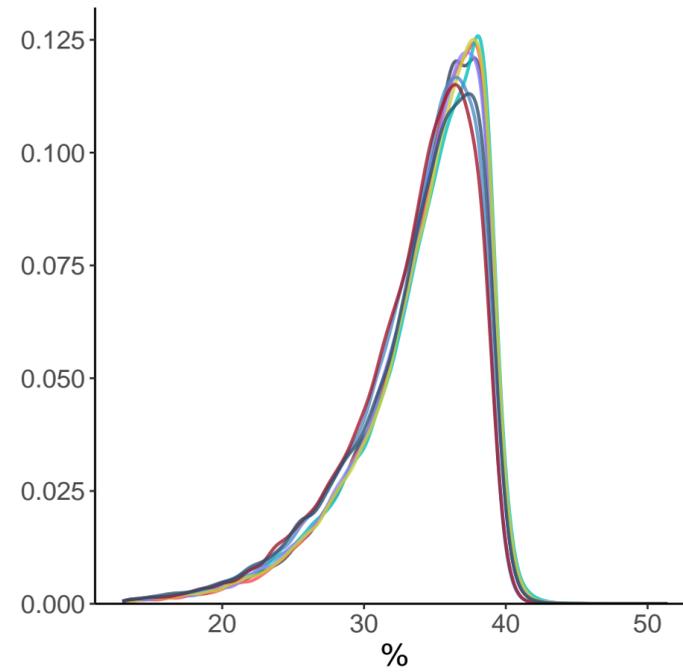
L_HDL_C_pct

Spectrometer



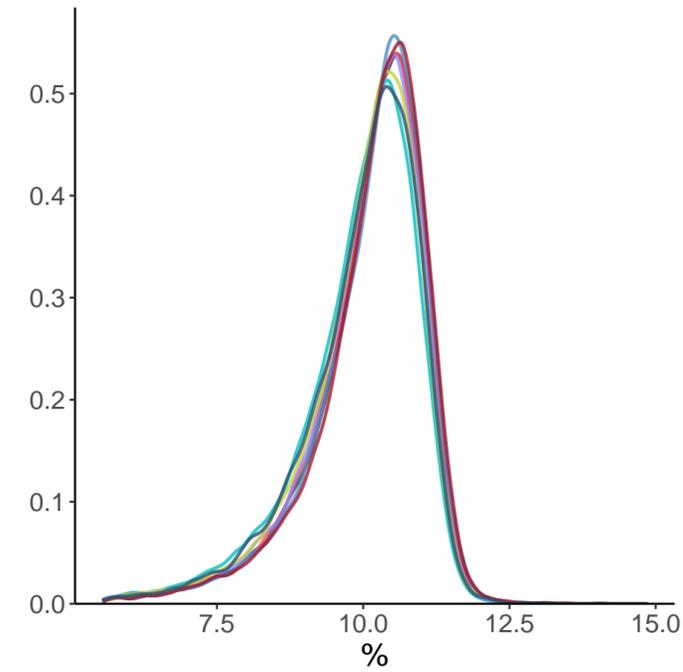
L_HDL_CE_pct

Spectrometer



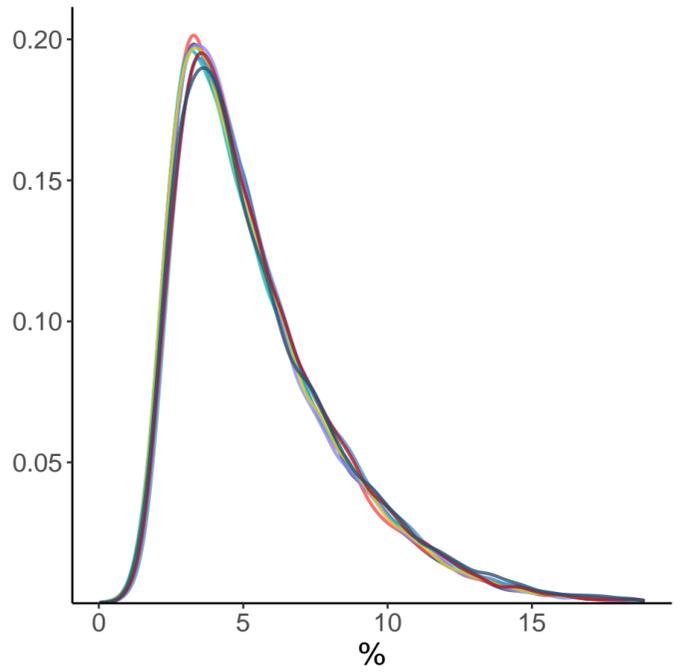
L_HDL_FC_pct

Spectrometer



L_HDL_TG_pct

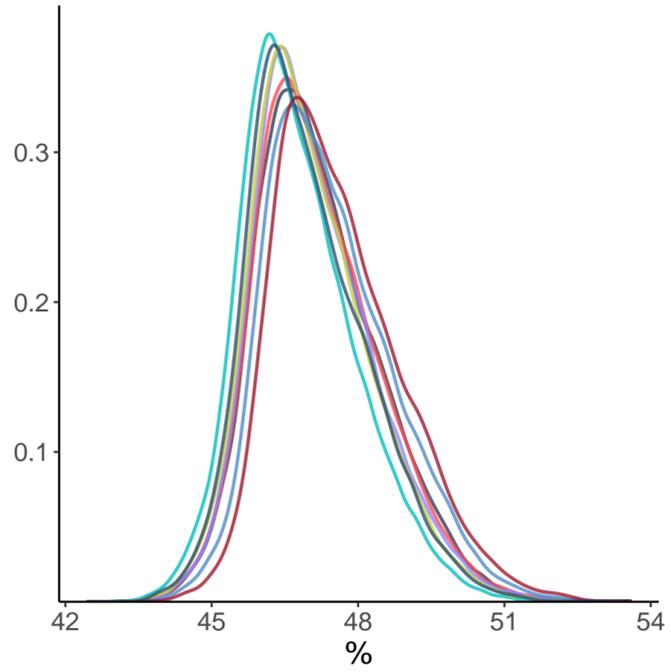
Spectrometer



Medium HDL ratios

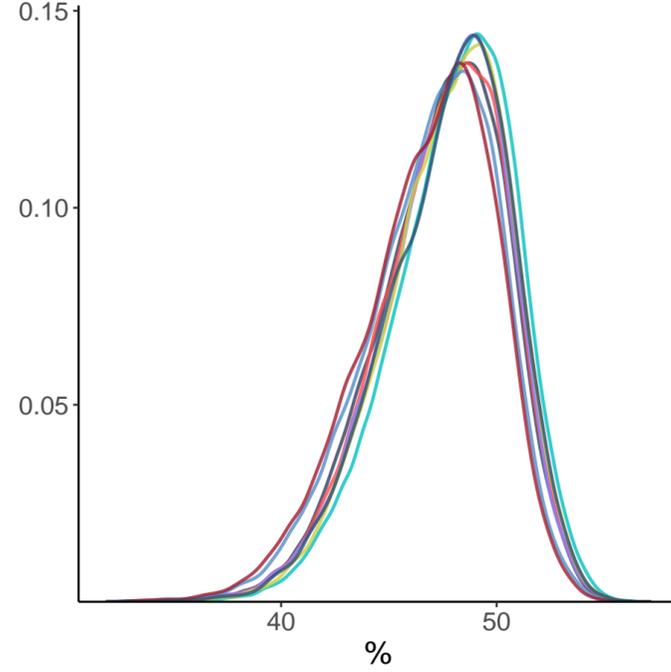
M_HDL_PL_pct

Spectrometer



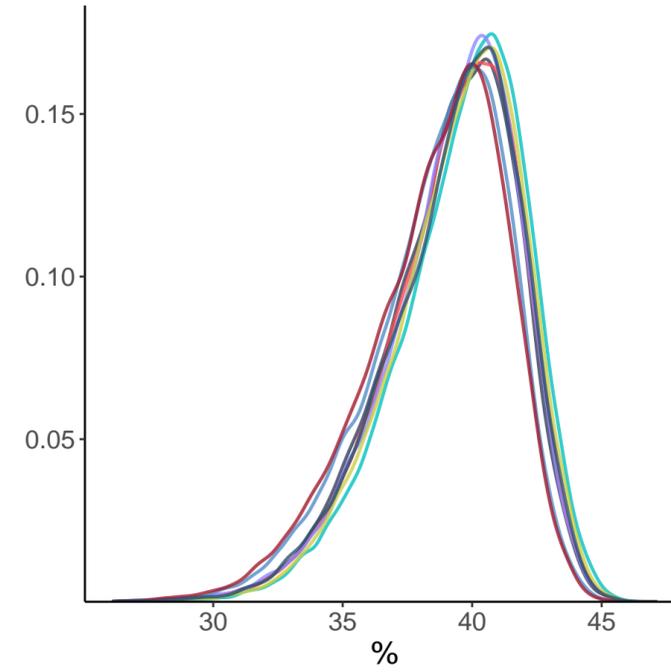
M_HDL_C_pct

Spectrometer



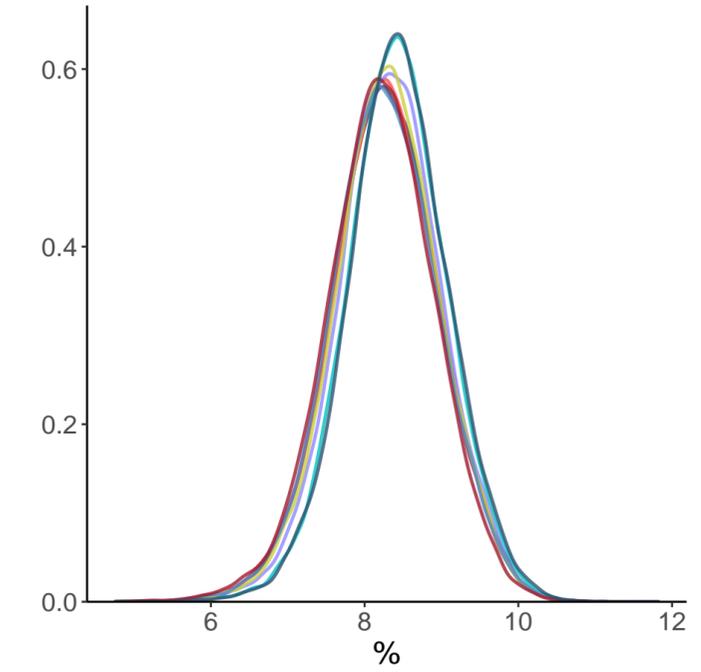
M_HDL_CE_pct

Spectrometer



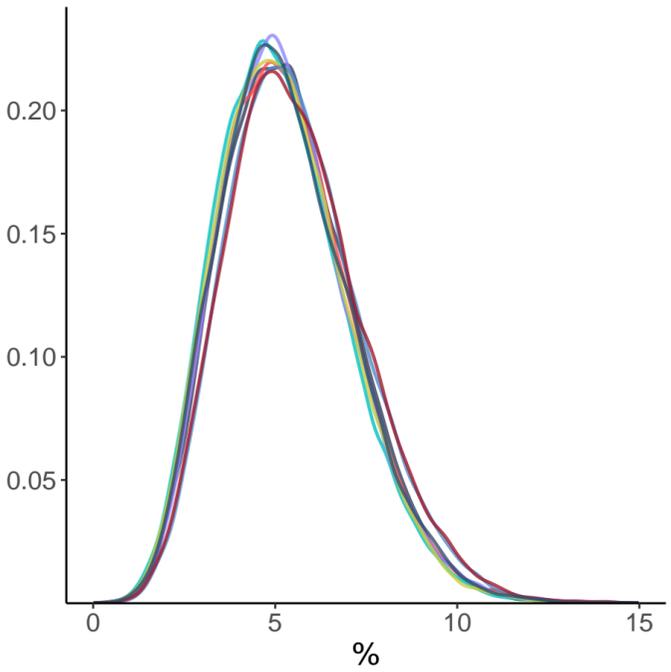
M_HDL_FC_pct

Spectrometer



M_HDL_TG_pct

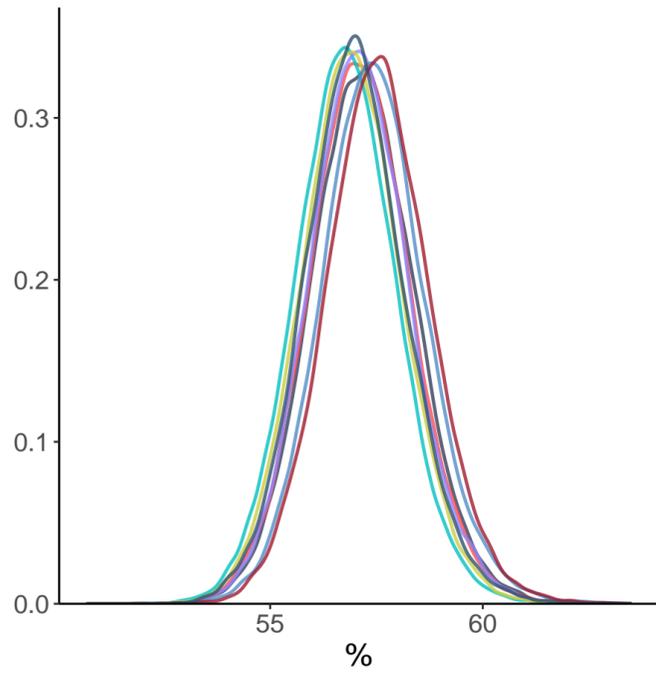
Spectrometer



Small HDL ratios

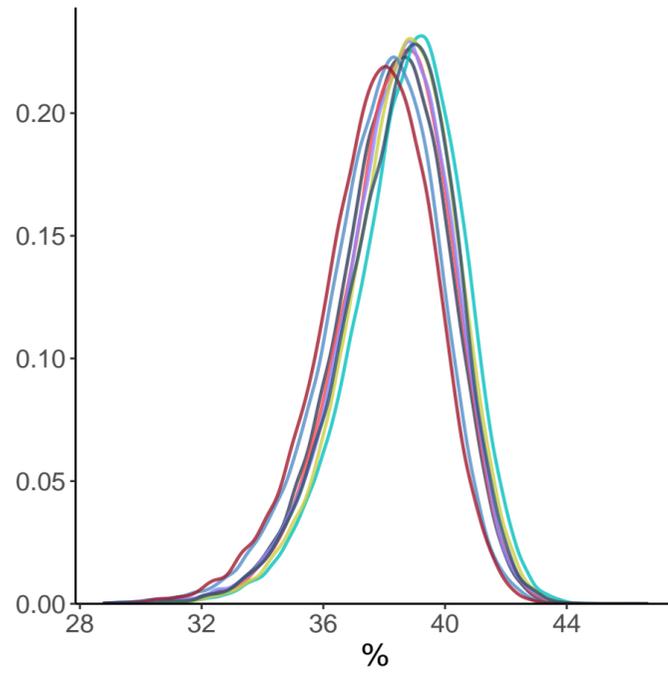
S_HDL_PL_pct

Spectrometer



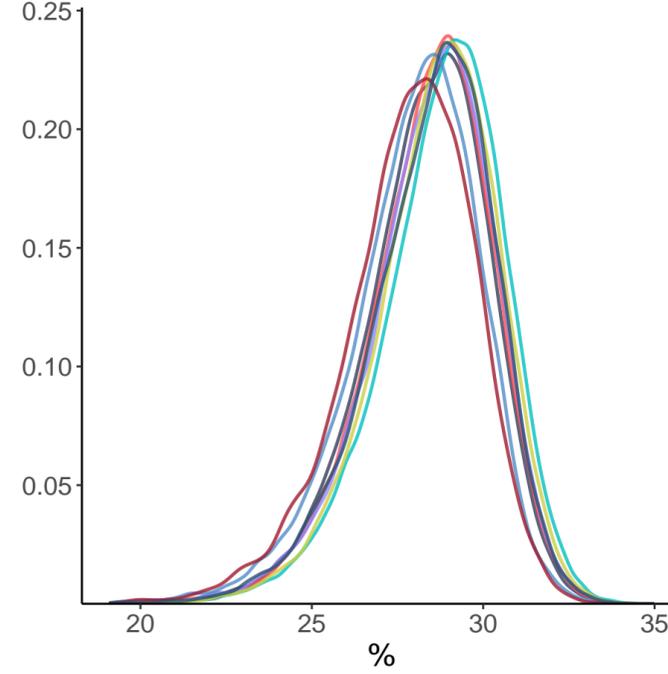
S_HDL_C_pct

Spectrometer



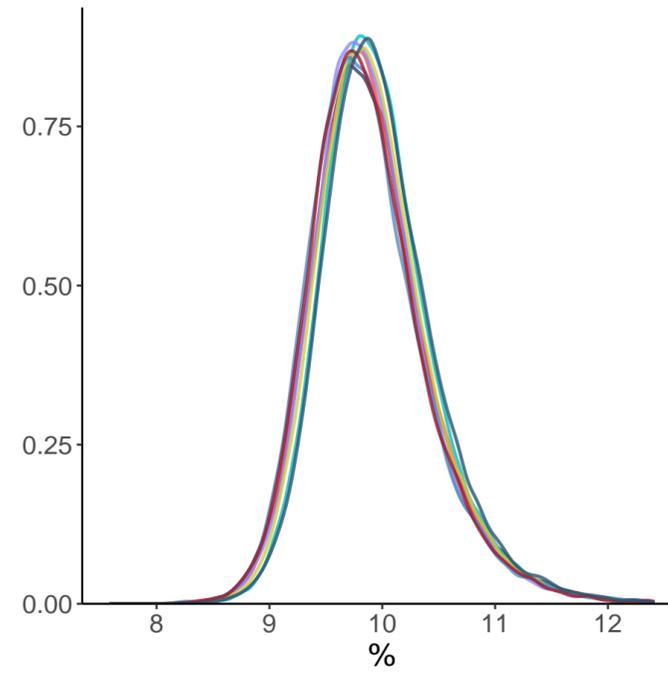
S_HDL_CE_pct

Spectrometer



S_HDL_FC_pct

Spectrometer



S_HDL_TG_pct

Spectrometer

