## Supplementary material

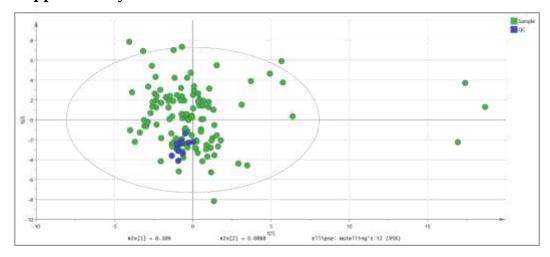


Figure 1 Total sample and QC distribution map.

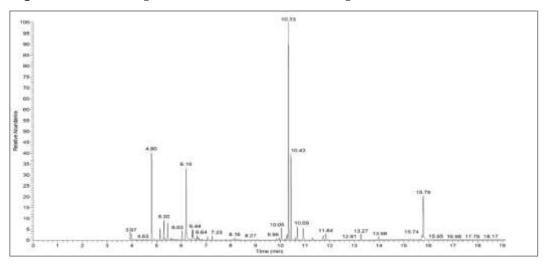


Figure 2 QC total ion current diagram.

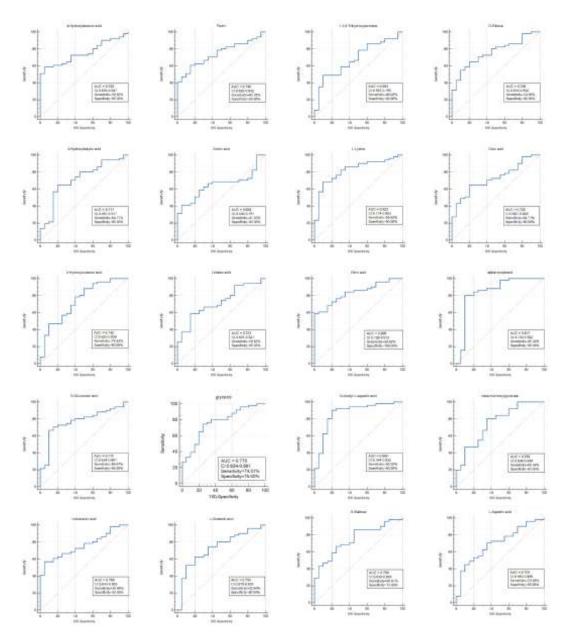


Figure 3 Differential metabolite ROC curve