Supplementary Material

**Lipidomics reveals tissue-specific organization of lipids**

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**Supplementary Figure 2.** Extracted chromatogram of 770.4 / 184.1 corresponding to PC(35:3), PC(O-36:3) and PC(P-36:2). Sequential examination of normal pooled plasma lipid extracts (Black trace) and acid treated lipid extracts (red trace) was used to extensively determine plasmalogen species from other isomer and isobaric compounds. Identify of each species was further characterised in a combination of other fragmentation experiments.

Retention time (minute)

**Q1 – 770.4**

**Q3 – 184.1**

Control QC sample

Acid treated QC sample

PC(35:3)

PC(O-36:3)

PC(P-36:2)

Intensity

a

b

c

d

e

f

g

h

**Subsequent identification**

a) PC(17:1\_18:2)

b) PC(15:0\_20:3)

c) +1 isotope of SM(39:3) + other

d) +2 isotope of PC(O-36:4)

e) PC(O-18:1/18:2)

f ) PC(O-16:0/20:3)

g) PC(P-18:1/18:1)

h) PC(P-18:0/18:2)