Poster appendix #6 – MALDI-TOF-MS spectra of *S. haematobium* GSL derived, N-linked and O-linked glycans

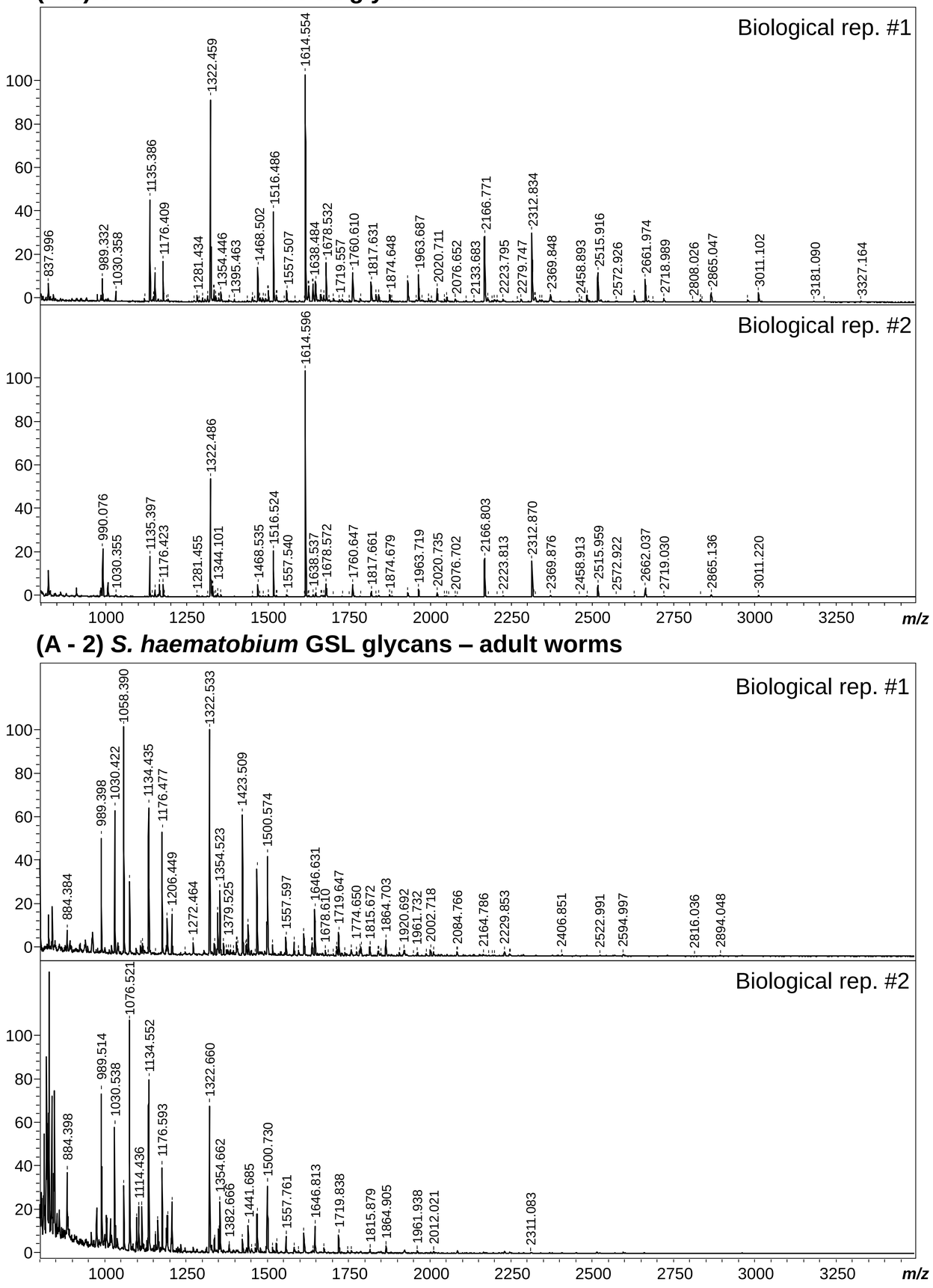
S. haematobium (glyco-)lipids were treated with EGCase I to release GSL glycans (A, C-1) while N-glycans were released from *S. haematobium* glycoproteins using PNGase F and PNGase A sequentially (B, C-2). Enzymatically released glycans were labeled with 2-AA and analyzed using MALDI-TOF-MS. GSL glycan and N-glycan spectra were acquired in negative-ion reflectron mode. All signals are labeled with monoisotopic masses (m/z). Signal intensities in % are indicated on the Y-axis.

Biological duplicates were generated for GSL and N-linked glycans of *S. haematobium* cercariae, adult worms and total eggs (A-B). Glycan class and parasite life-stage from which glycans were extracted is indicated at the top of each panel: cercariae, adult worms or eggs (total), with a distinction between mature and immature eggs in C. At the exception of the PNGase A-specific N-glycan profile obtained for the mature eggs (C-2); the rest of the N-glycan spectra result from PNGase F treatment.

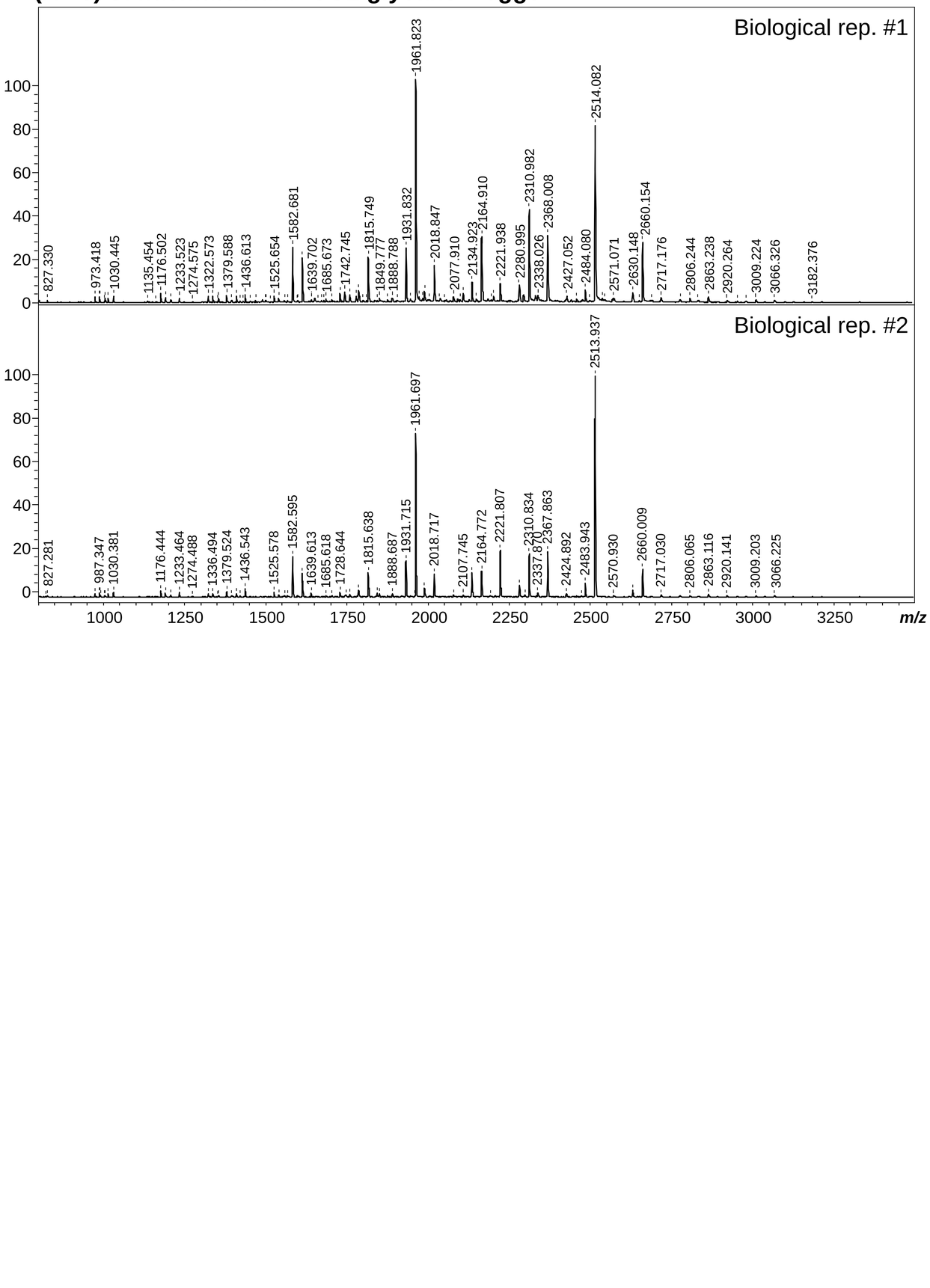
O-glycans were released from *S. haematobium* glycoproteins by β-elimination and permethylated prior MALDI-TOF-MS analysis (D). Technical duplicates were generated. Spectra were recorded in positive-ion reflectron mode and monoisotopic masses of measured signals are indicated. Signal intensities in % are indicated on the Y-axis.

Known non-glycan signals are labeled with the # symbol.

(A-1) *S. haematobium* GSL glycans – cercariae

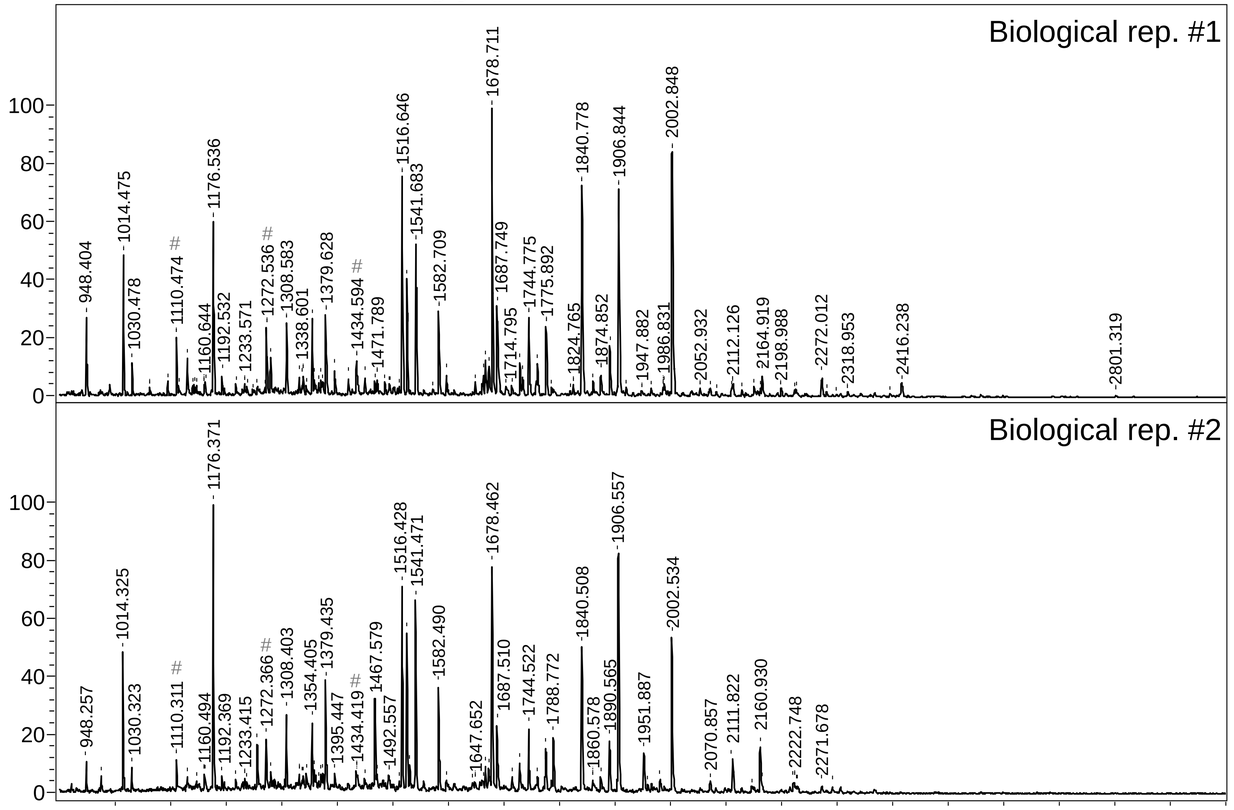


(A - 3) *S. haematobium* GSL glycans – eggs

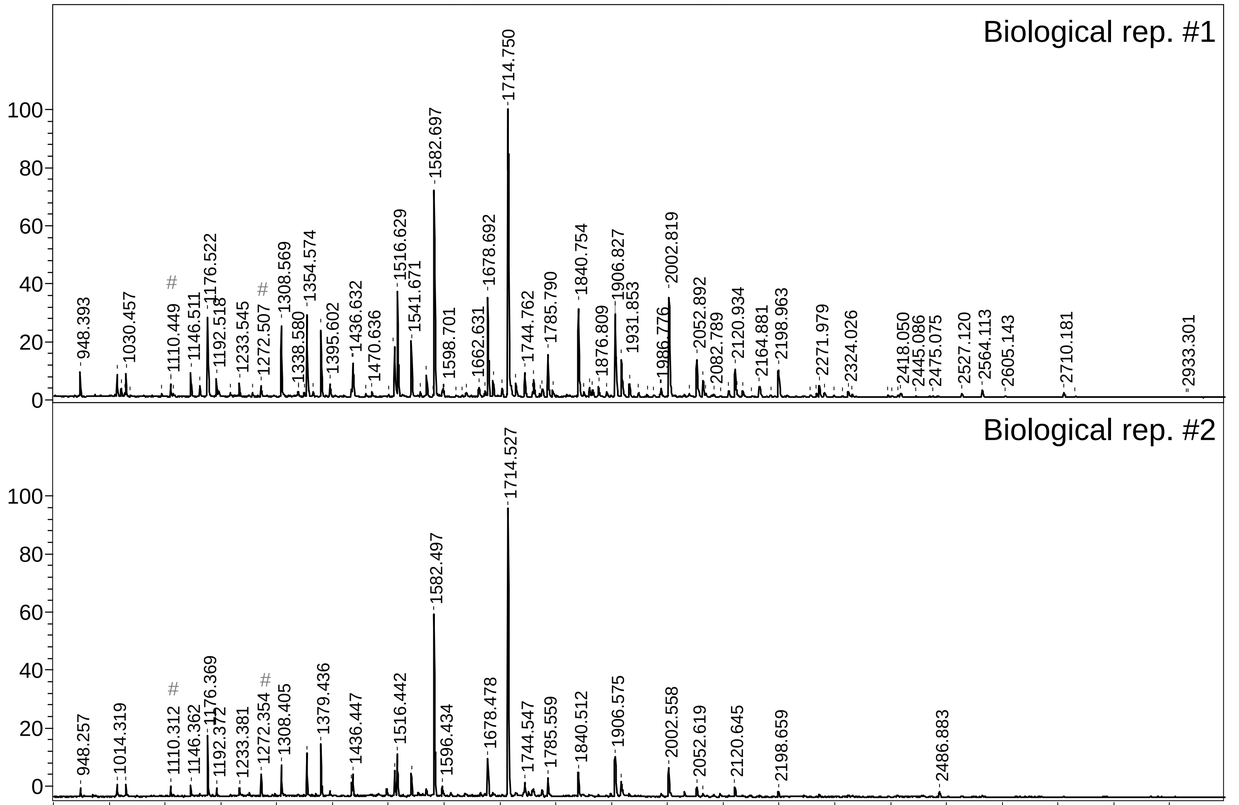


(A - 2) *S. haematobium* GSL glycans – adult worms

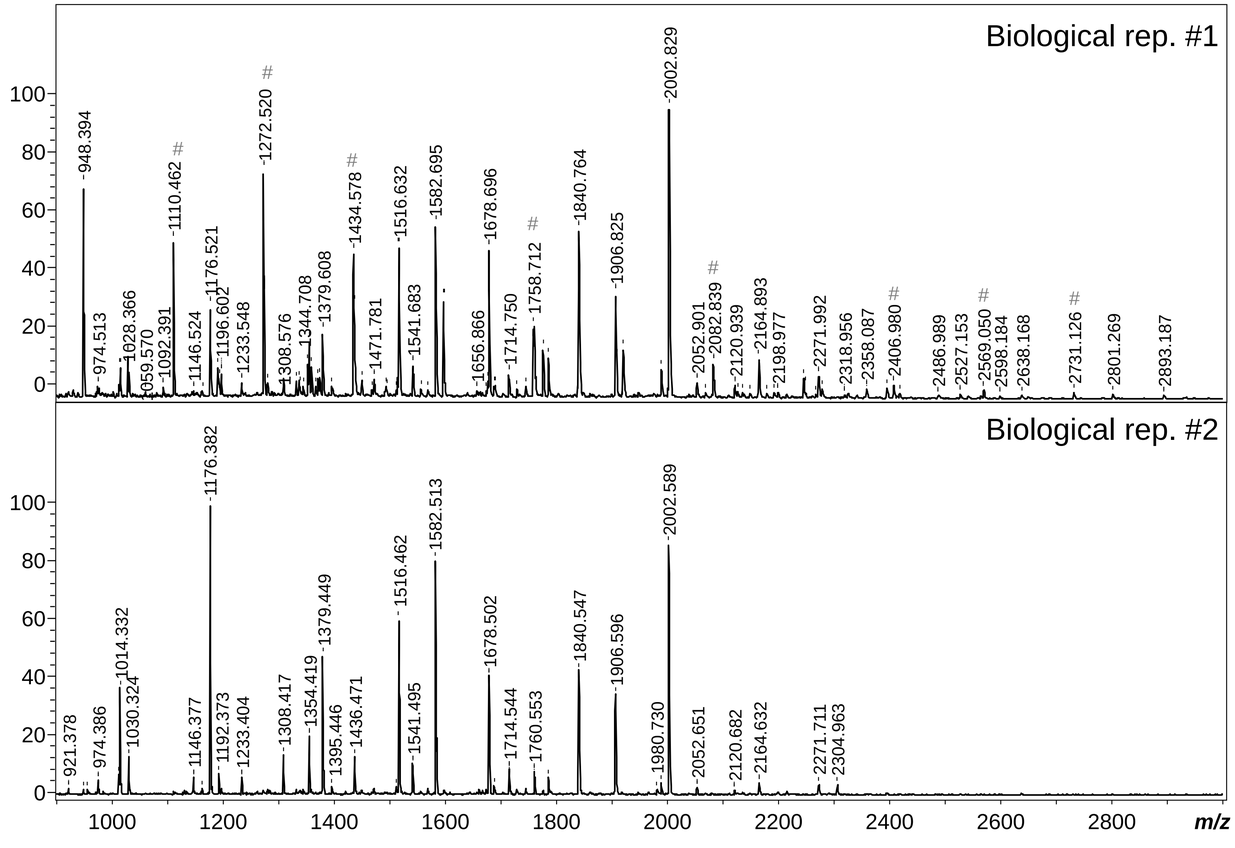
(B-1) *S. haematobium* N-glycans – cercariae



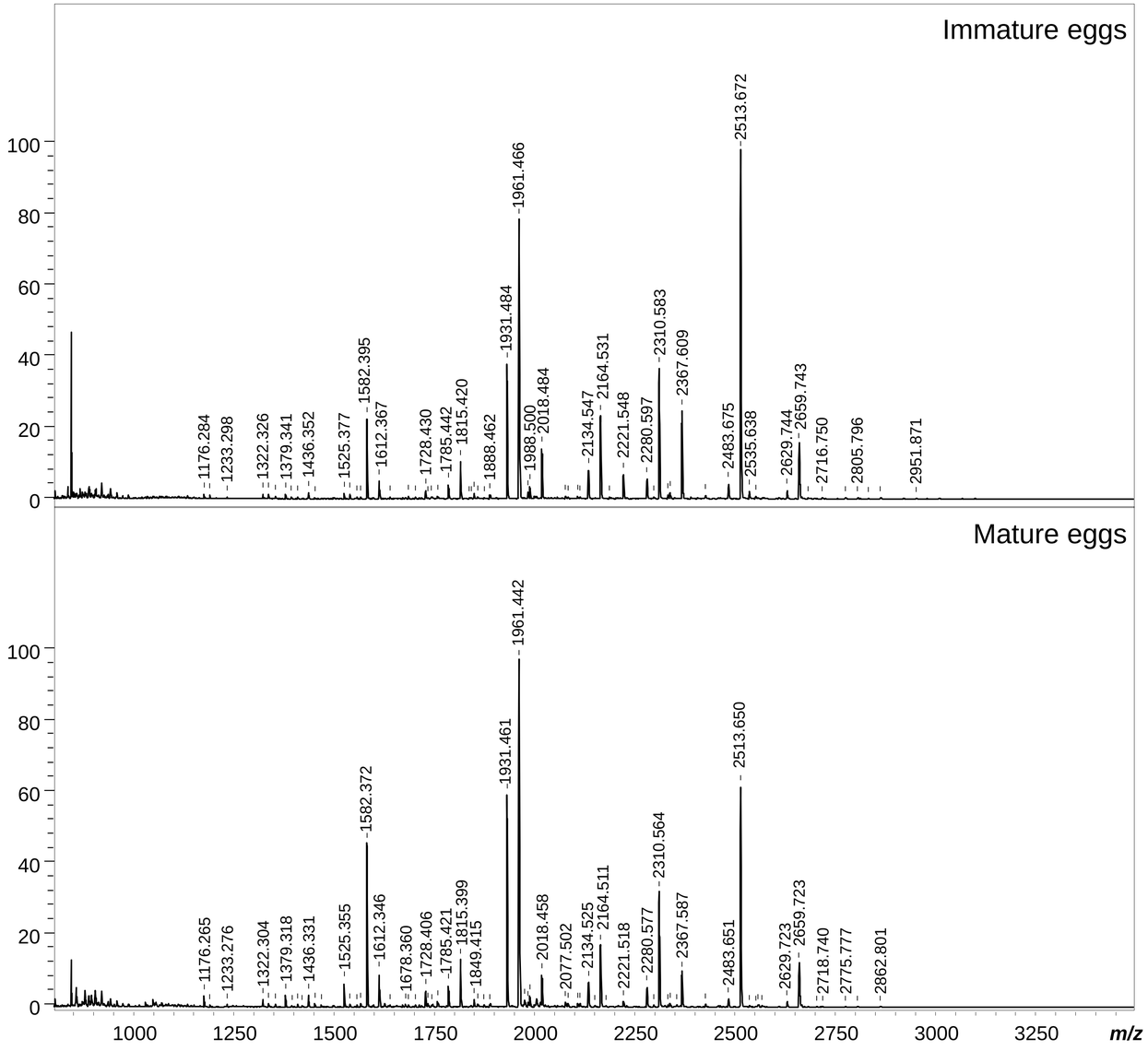
(B- 3) *S. haematobium* N-glycans – total eggs



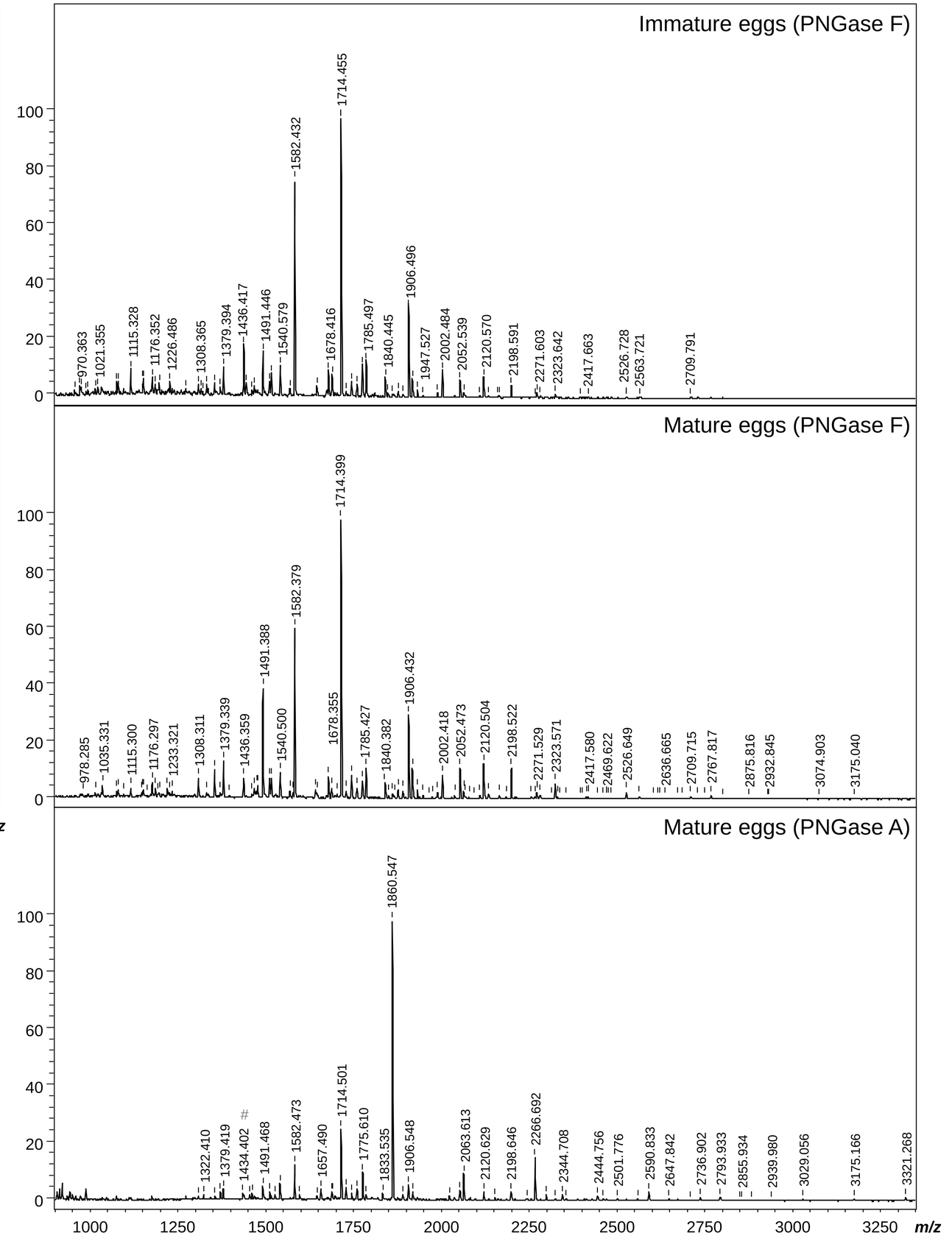
(B - 2) *S. haematobium* N-glycans – adult worms



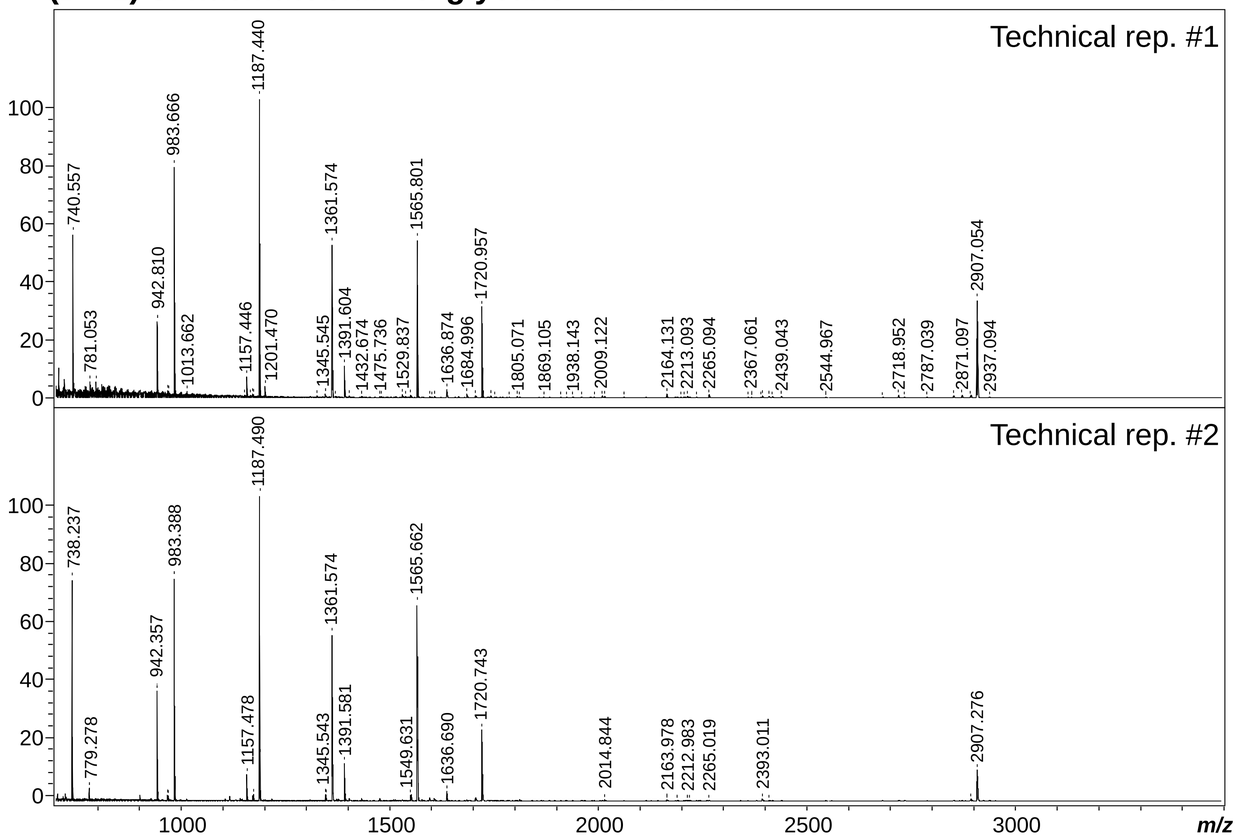
(C - 1) *S. haematobium* GSL glycans – immature and mature eggs



(C-2) *S. haematobium* N-glycans – Immature and mature eggs



(D - 1) *S. haematobium* O-glycans – cercariae



(D - 2) *S. haematobium* O-glycans – eggs