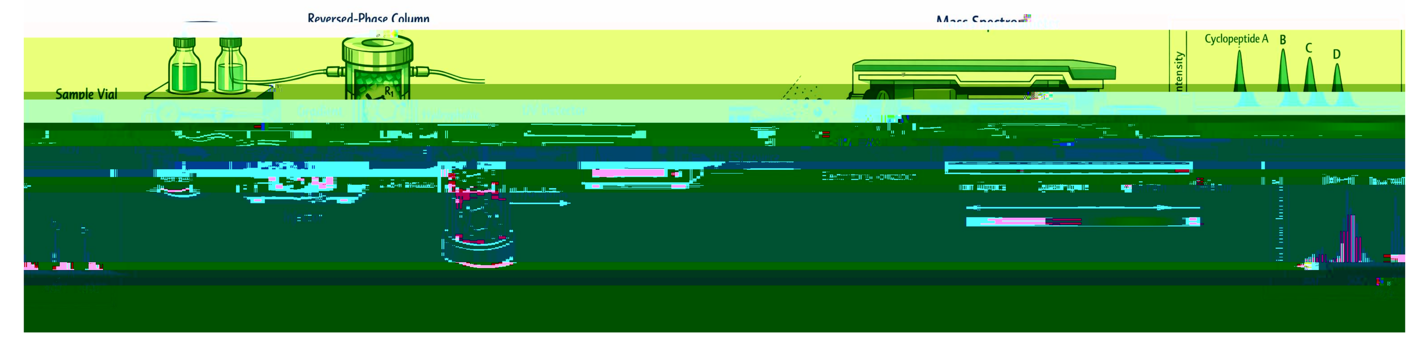
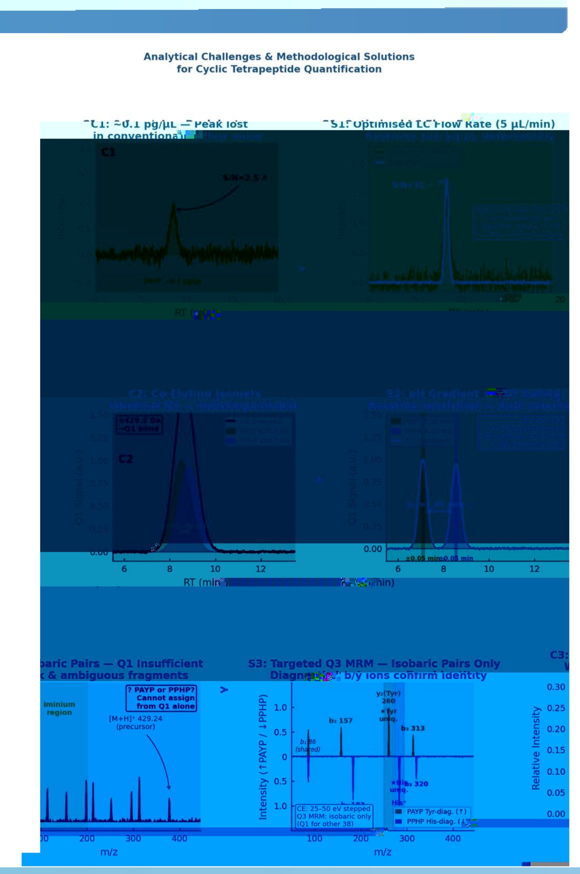

Reversed-Phase Column
Sample Vial
Cyclopeptide A
B
C
D


Analytical Challenges & Methodological Solutions
for Cyclic Tetrapeptide Quantification
S1: Optimised LC Flow Rate (5 μL/min)
S3: Targeted Q3 MRM — Isobaric Pairs Only
? PAYP or PPHP?
Cannot assign
from Q1 alone
Iminium
region
b₂ 157
b₃ 313
CE: 25-50 eV stepped
Q3 MRM: isobaric only
(Q1 for other 38)
PAYP Tyr-diag.
PPHP His-diag.
Relative Intensity
m/z