

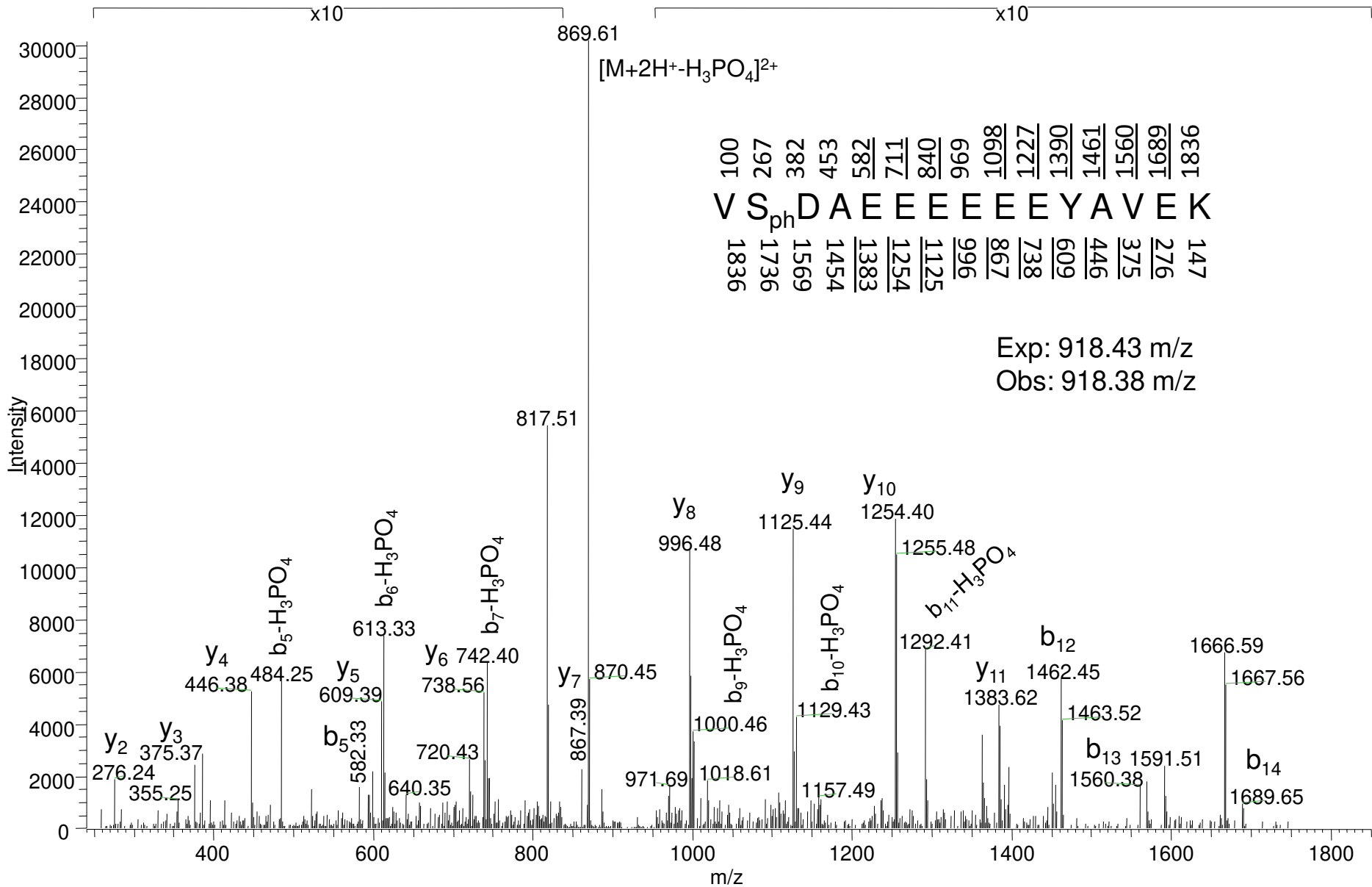
Supplementary data file :

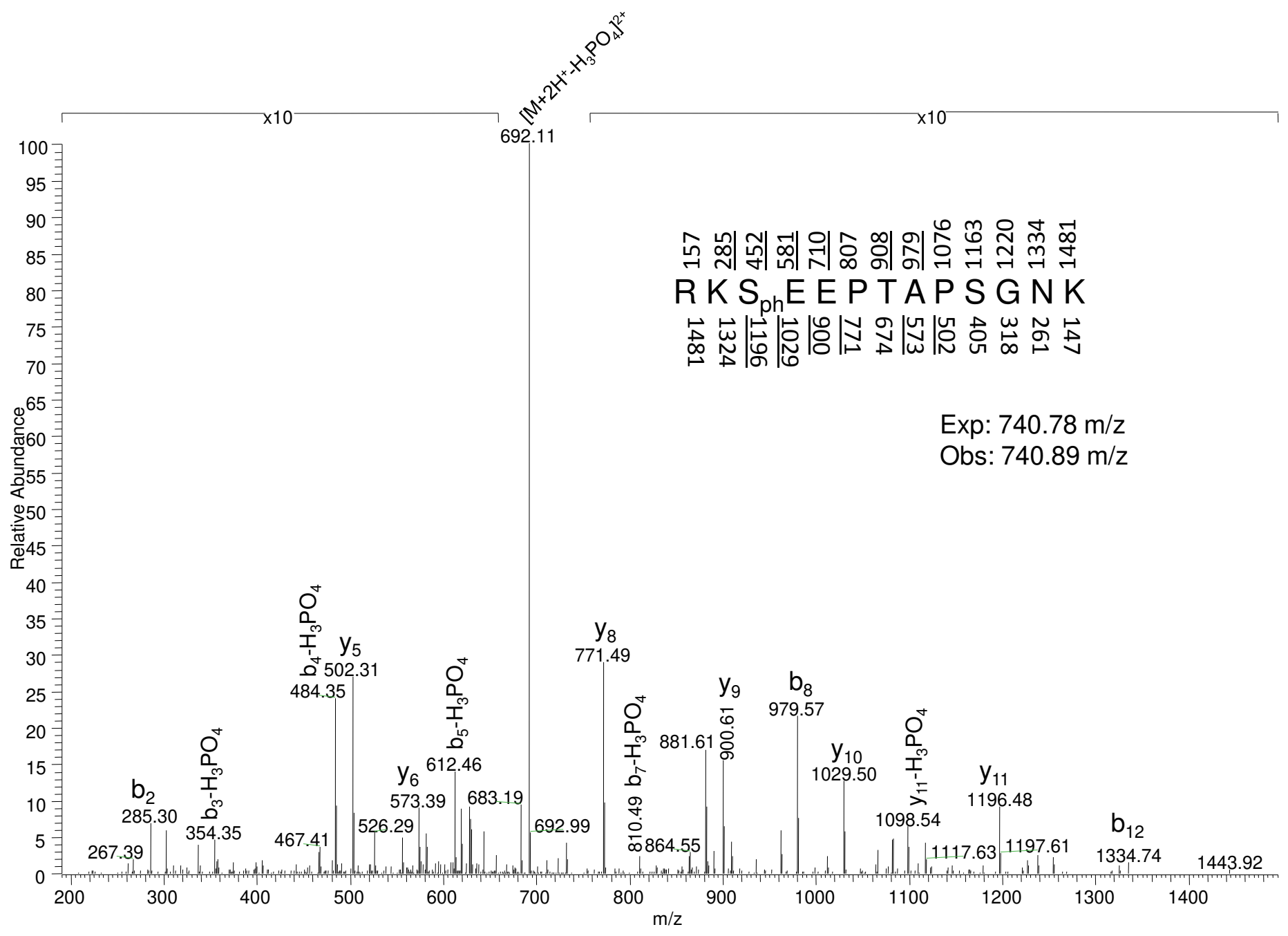
Heterochromatin-associated interactions of *Drosophila* HP1 with dADD1, HIP1, and repetitive RNAs

Artyom A. Alekseyenko^{1,2}, Andrey A. Gorchakov^{1,2,3}, Barry M. Zee^{1,2}, Stephen M. Fuchs⁴, Peter V. Kharchenko^{5,6,*}, Mitzi I. Kuroda^{1,2,*}

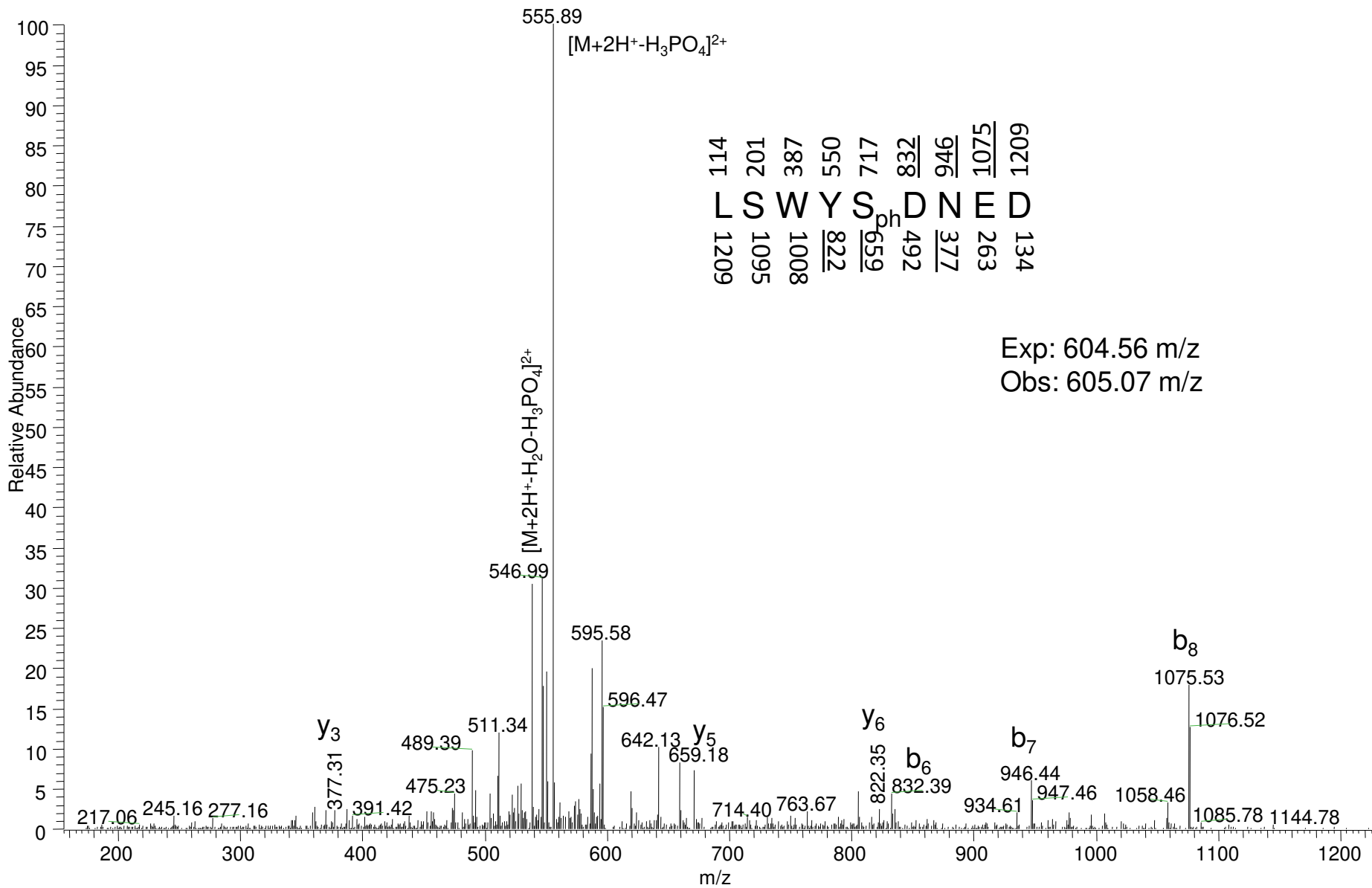
MS/MS of phosphorylated peptides of HP1a, CG3680, and CG8290.

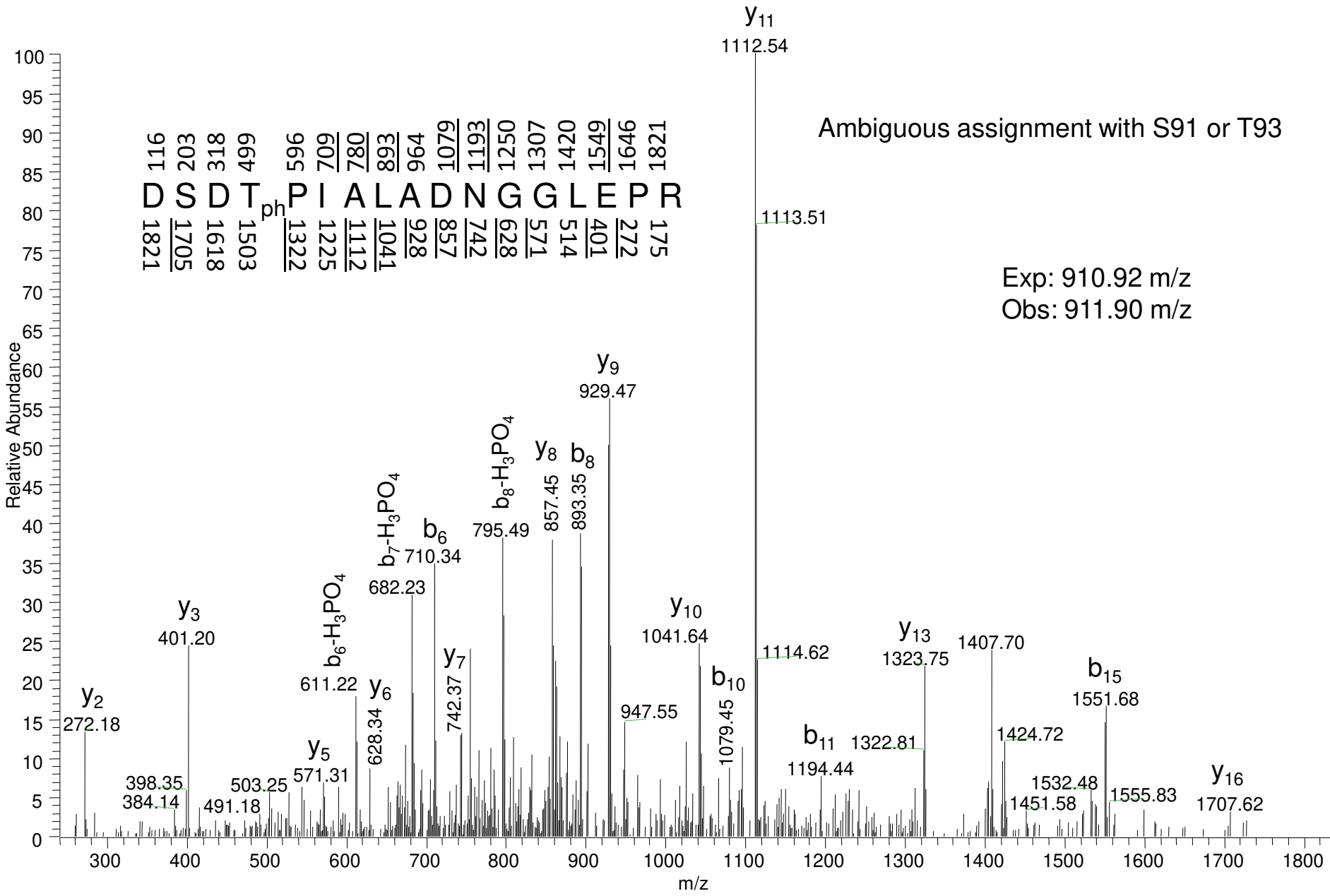
MS/MS of phosphorylated residues summarized in **Figure S5** are provided with annotations. Note that both MS and MS/MS were collected in the ion trap, where ions in MS/MS resulted from collision induced dissociation. Underlined nominal fragment ion masses above and below the peptide sequence indicate b and y ions respectively that were positively identified in the spectrum. Expected average and observed precursor ion masses are also provided for each spectrum. Abbreviations: $[M+2H^+-H_3PO_4]^{+2}$ = doubly charged precursor ion with loss of phosphate ion; $[M+2H^+-H_2O-H_3PO_4]^{+2}$ = doubly charged precursor ion with loss of both phosphate and water molecule; $[M+2H^+-NH_3]^{+2}$ = doubly charged precursor ion with loss of ammonium ion.





$\frac{751}{R}$ $\frac{585}{K}$ $\frac{257}{S}$ $\frac{185}{E}$ $\frac{017}{E}$ $\frac{708}{T}$ $\frac{806}{P}$ $\frac{676}{A}$ $\frac{9701}{P}$ $\frac{3911}{S}$ $\frac{0221}{G}$ $\frac{4331}{N}$ $\frac{1871}{K}$
 $\frac{1481}{R}$ $\frac{1324}{K}$ $\frac{1196}{S}$ $\frac{1029}{E}$ $\frac{900}{E}$ $\frac{771}{T}$ $\frac{674}{P}$ $\frac{573}{A}$ $\frac{502}{P}$ $\frac{405}{S}$ $\frac{318}{G}$ $\frac{261}{N}$ $\frac{147}{K}$



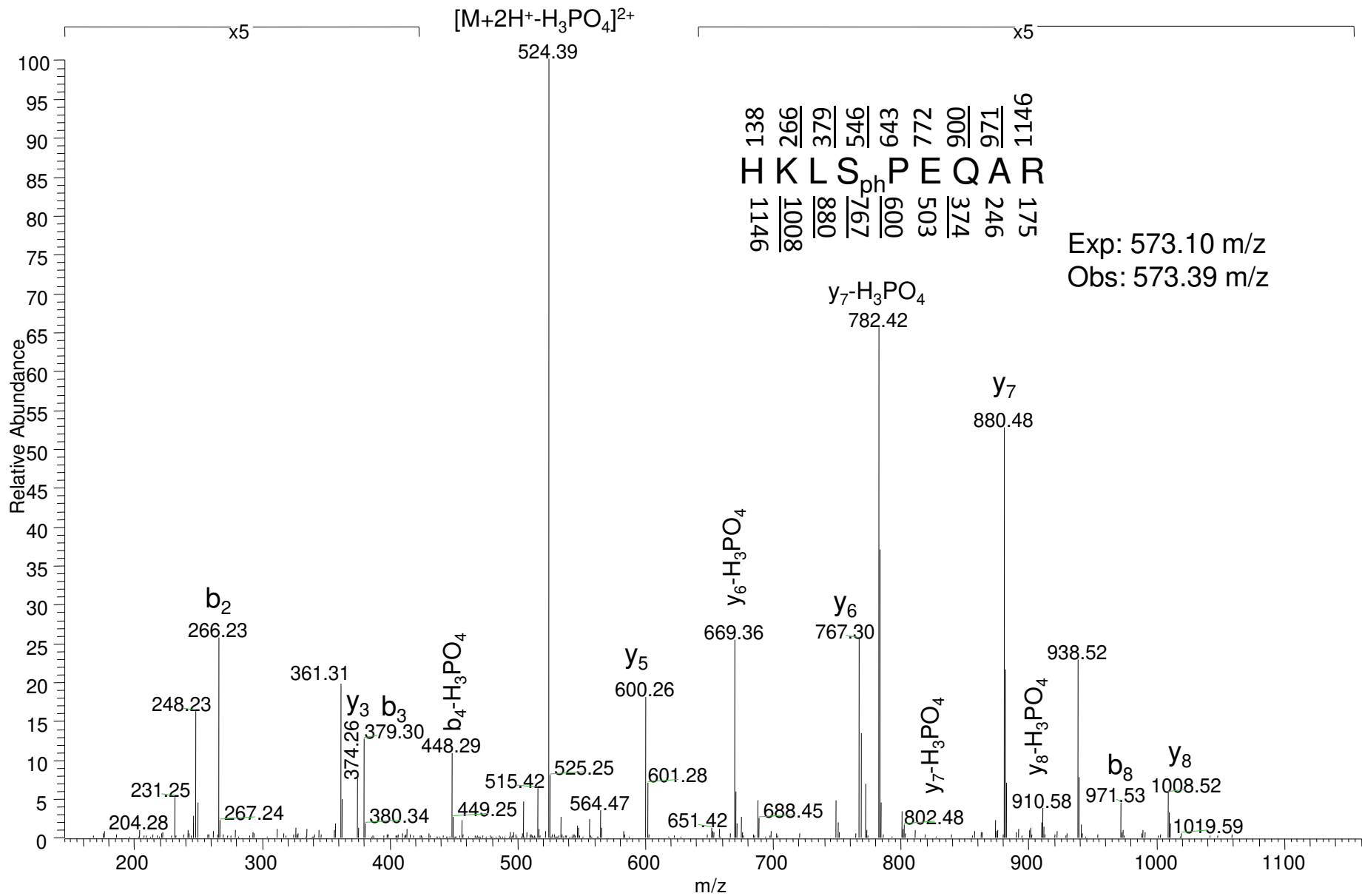


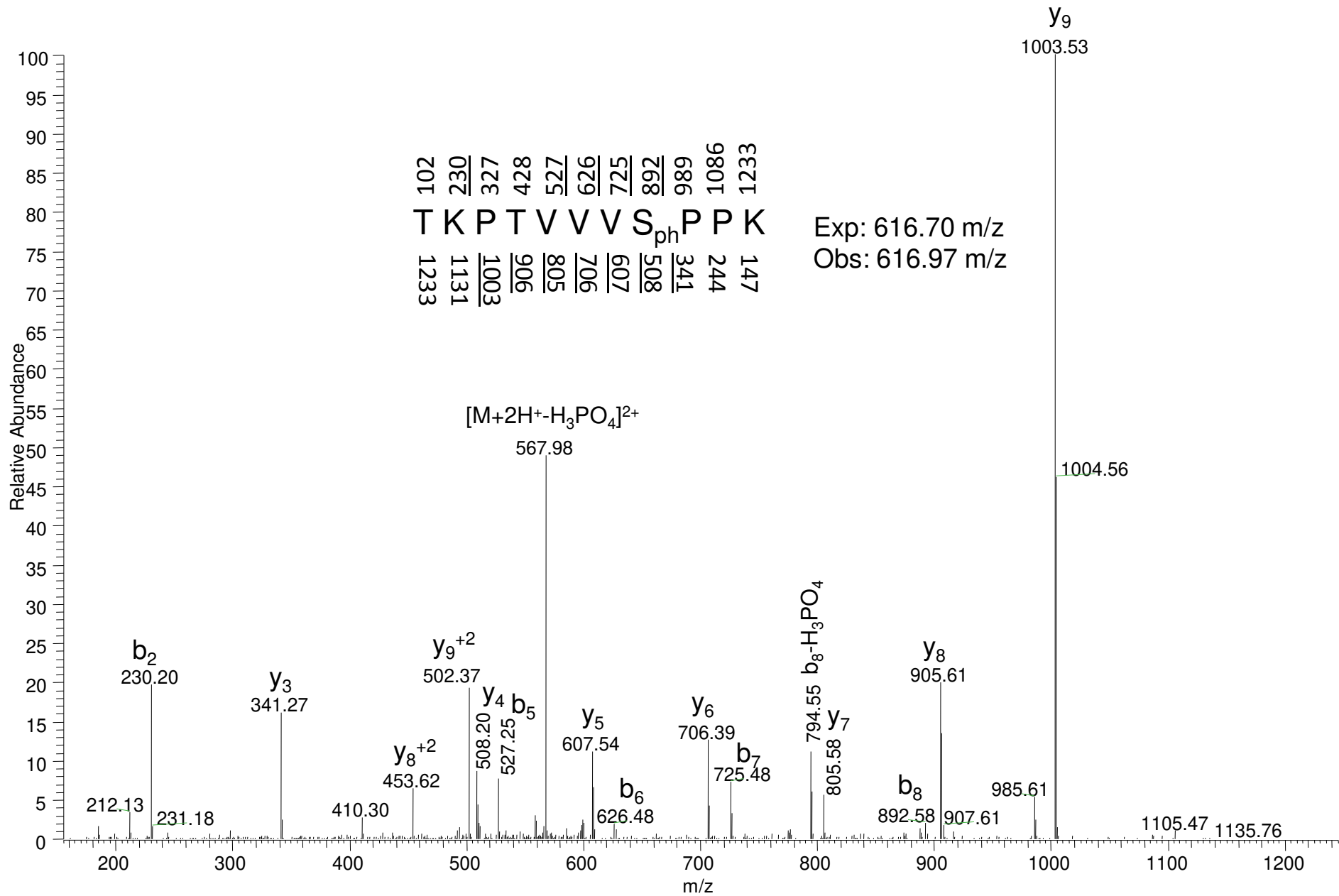
916
 302
 818
 667
 996
 596
 607
 087
 688
 496
 6701
 3611
 0521
 7031
 0271
 1549
 1646
 1281
 1821
 1705
 1618
 1503
 1322
 1112
 1112
 1041
 928
 857
 742
 628
 571
 514
 401
 272
 175

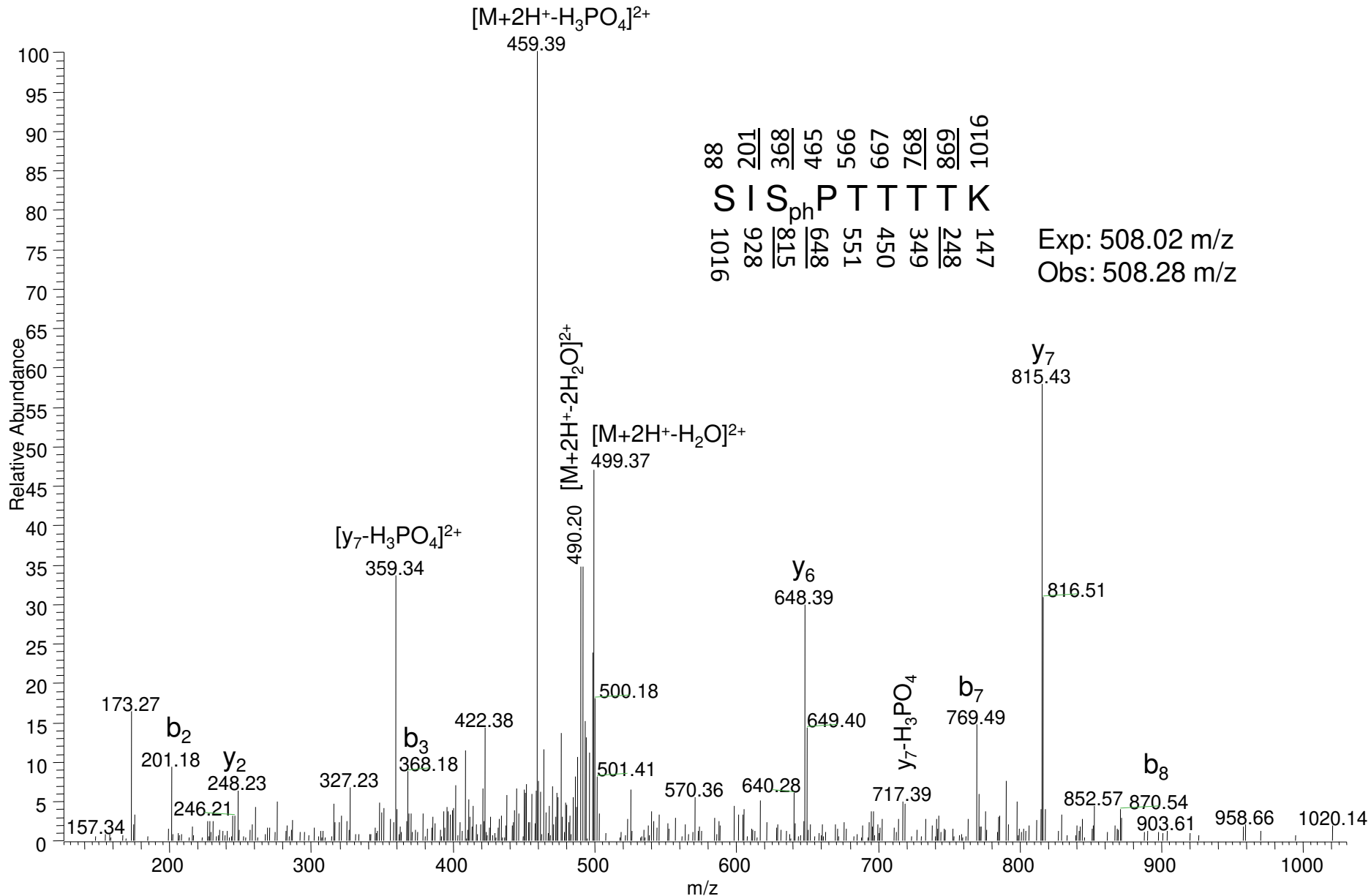
DSDTPIALADNGGLEPR

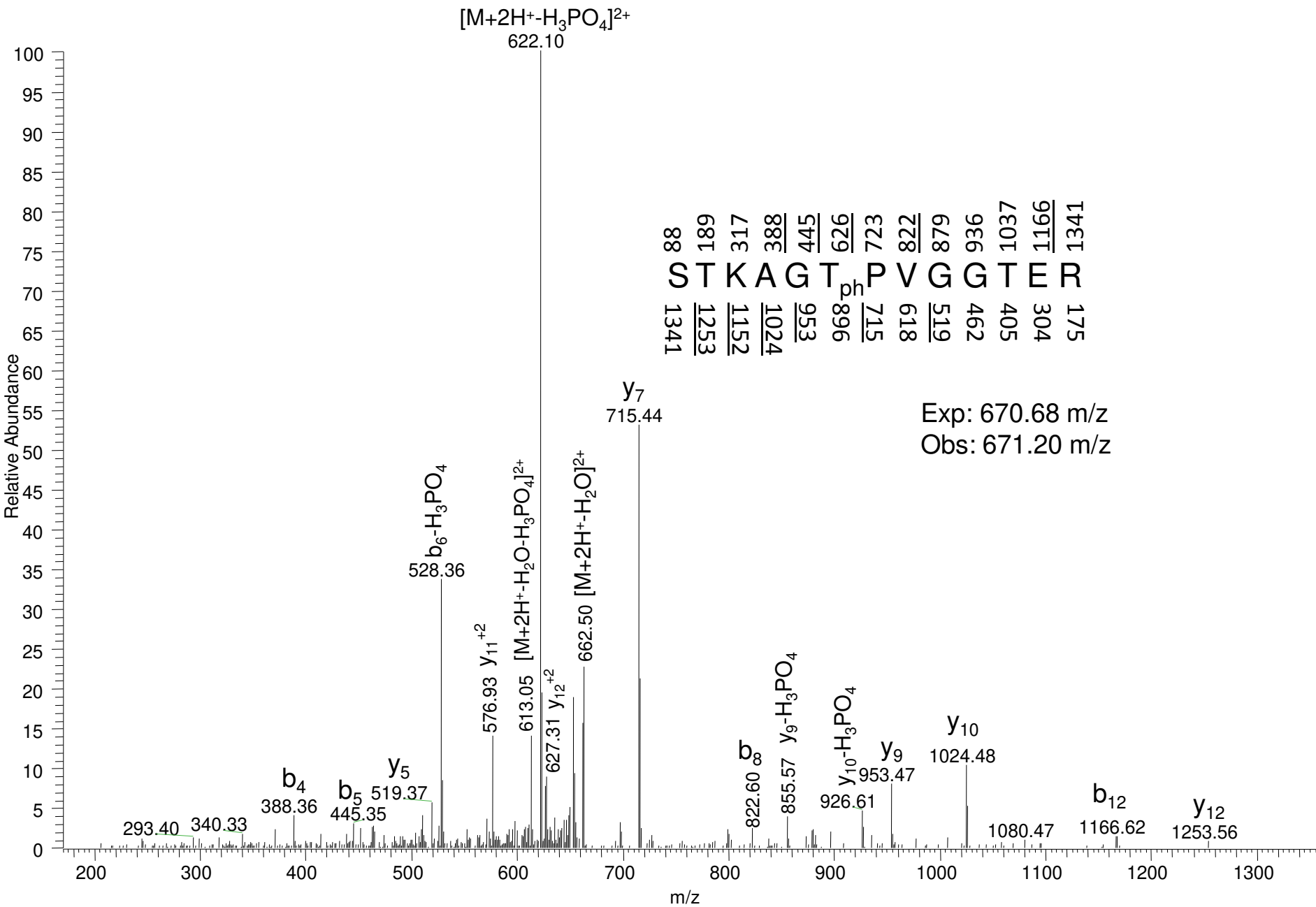
Ambiguous assignment with S91 or T93

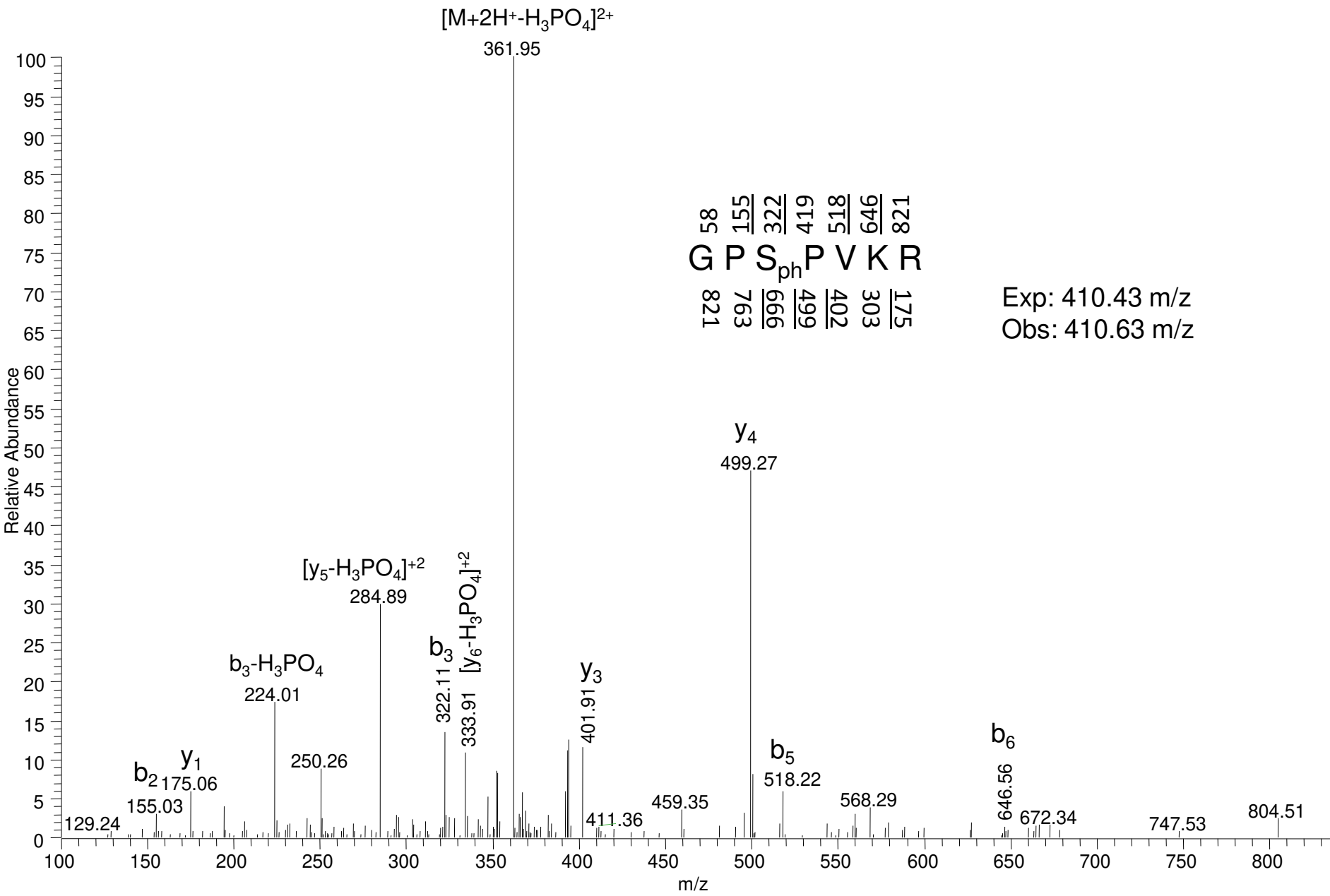
Exp: 910.92 m/z
 Obs: 911.90 m/z



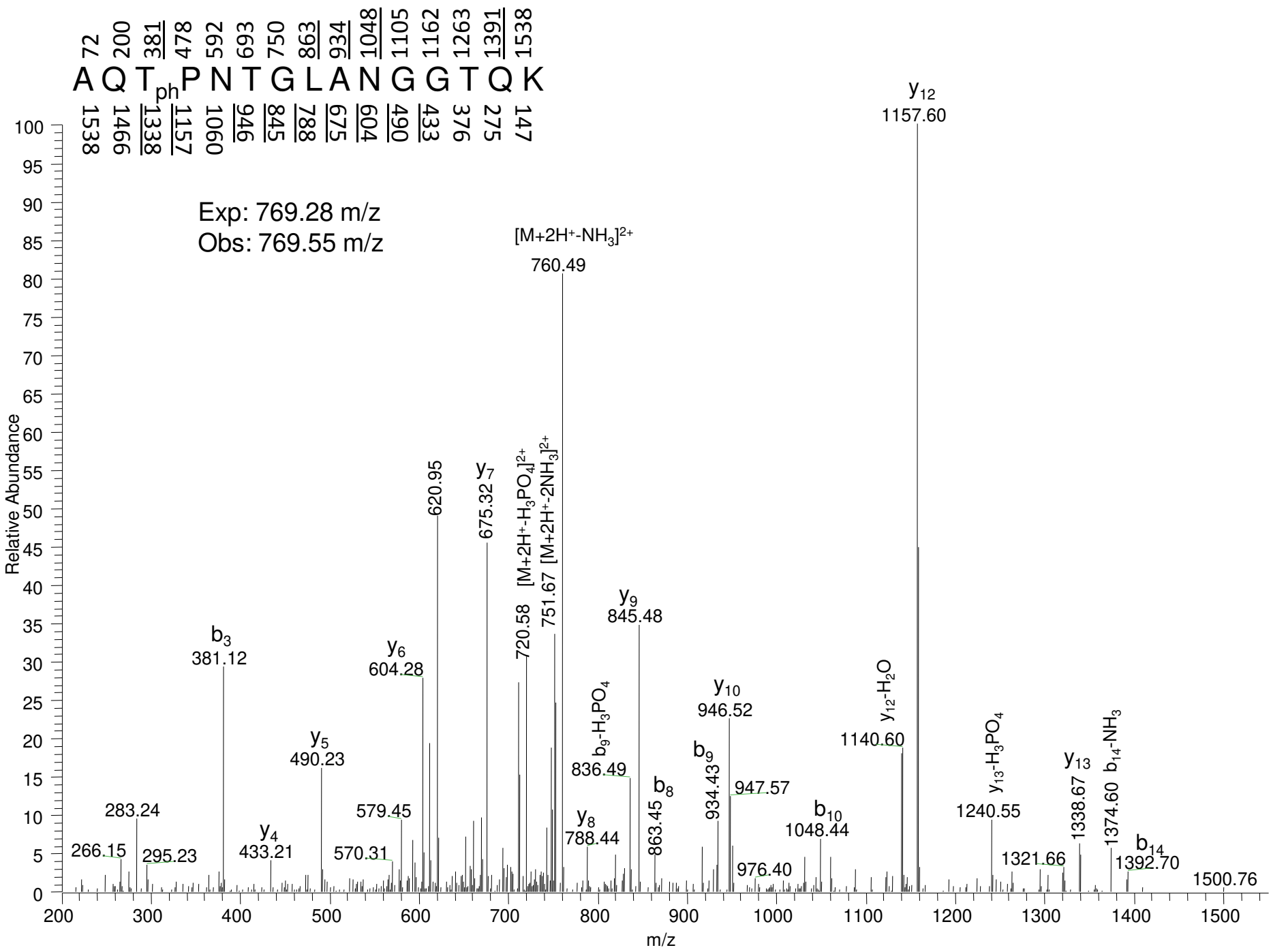




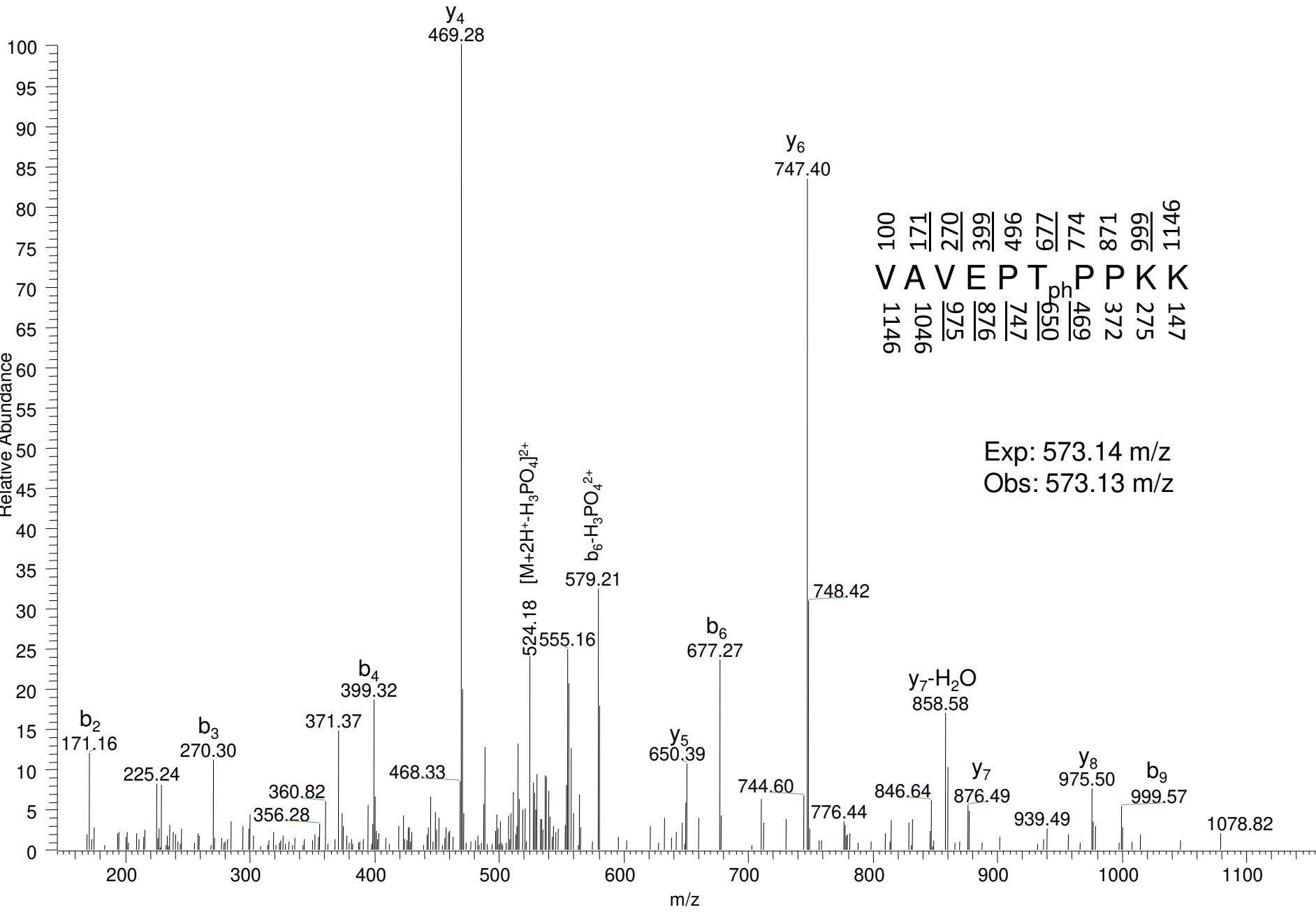


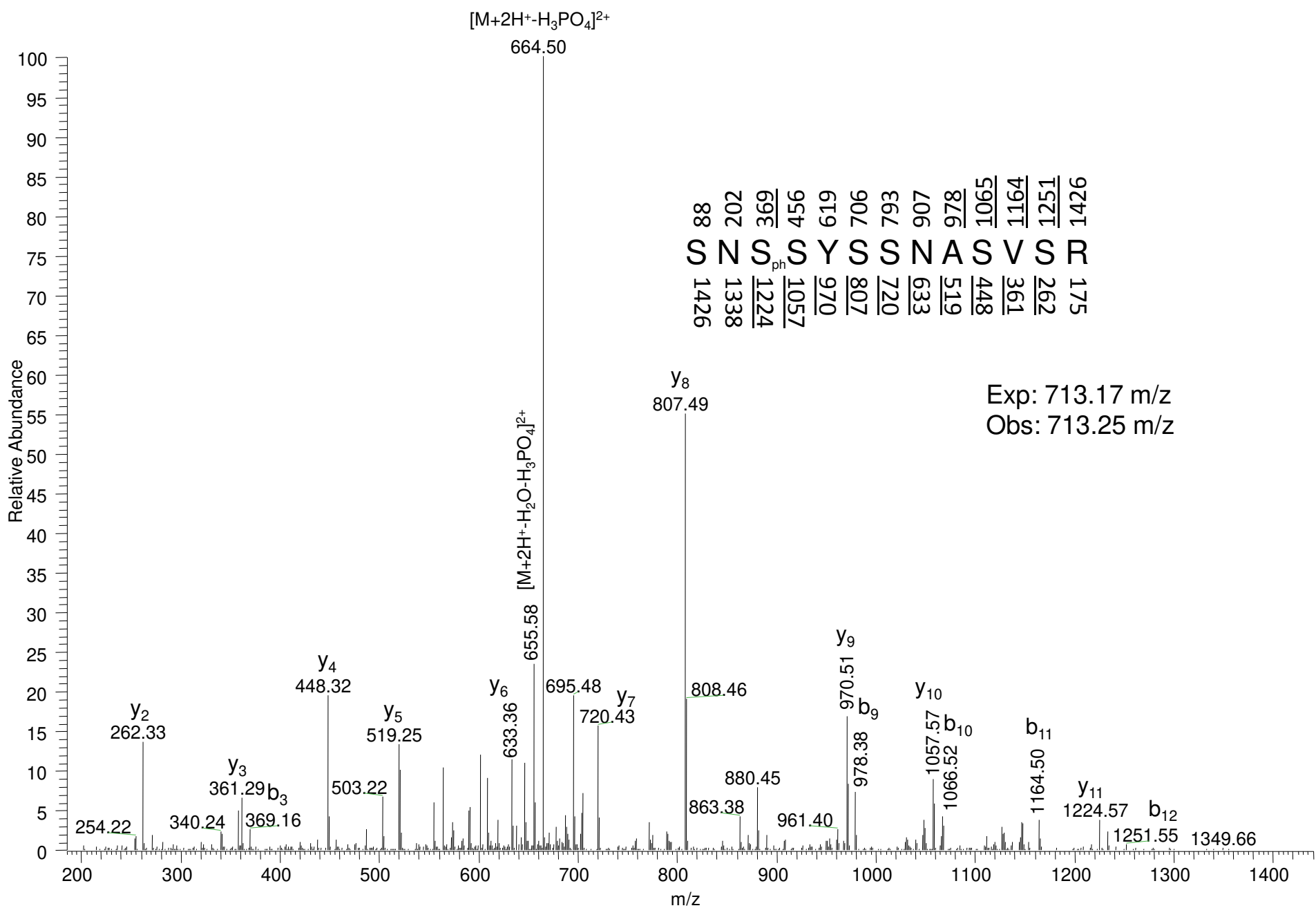


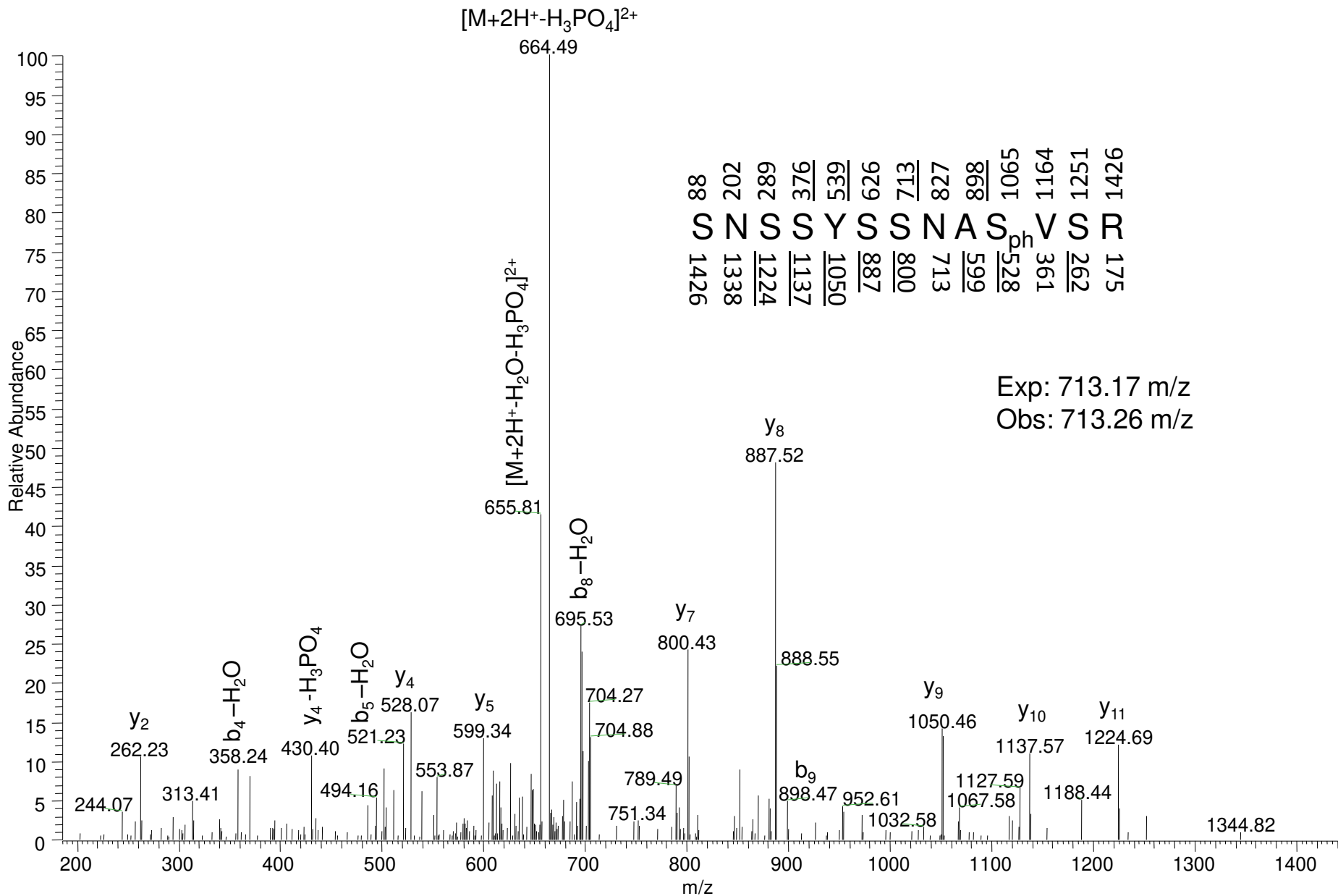
	58	155	322	419	518	646	128
G	P	S	ph	P	V	K	R
	821	763	666	499	402	303	175

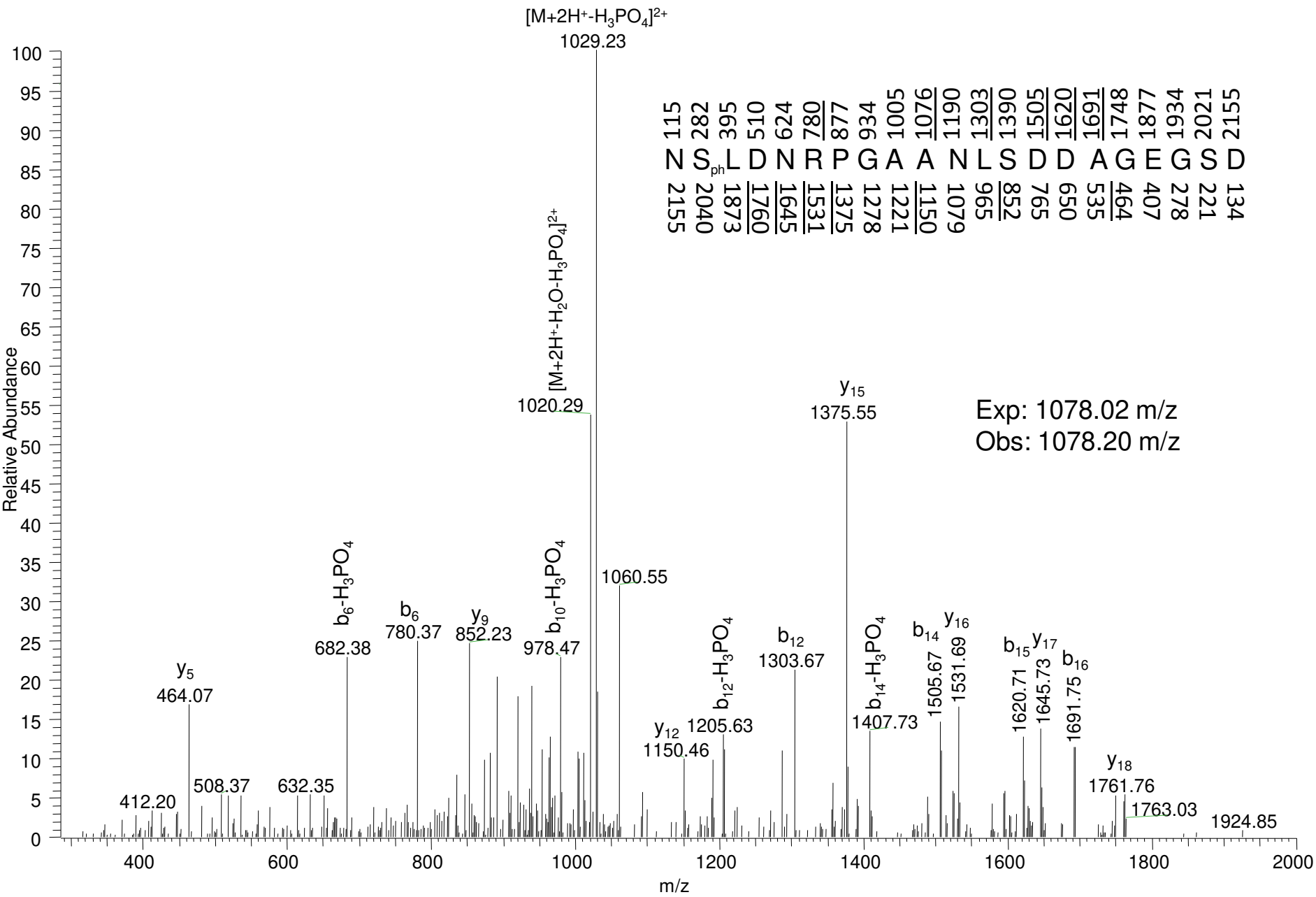


Relative Abundance



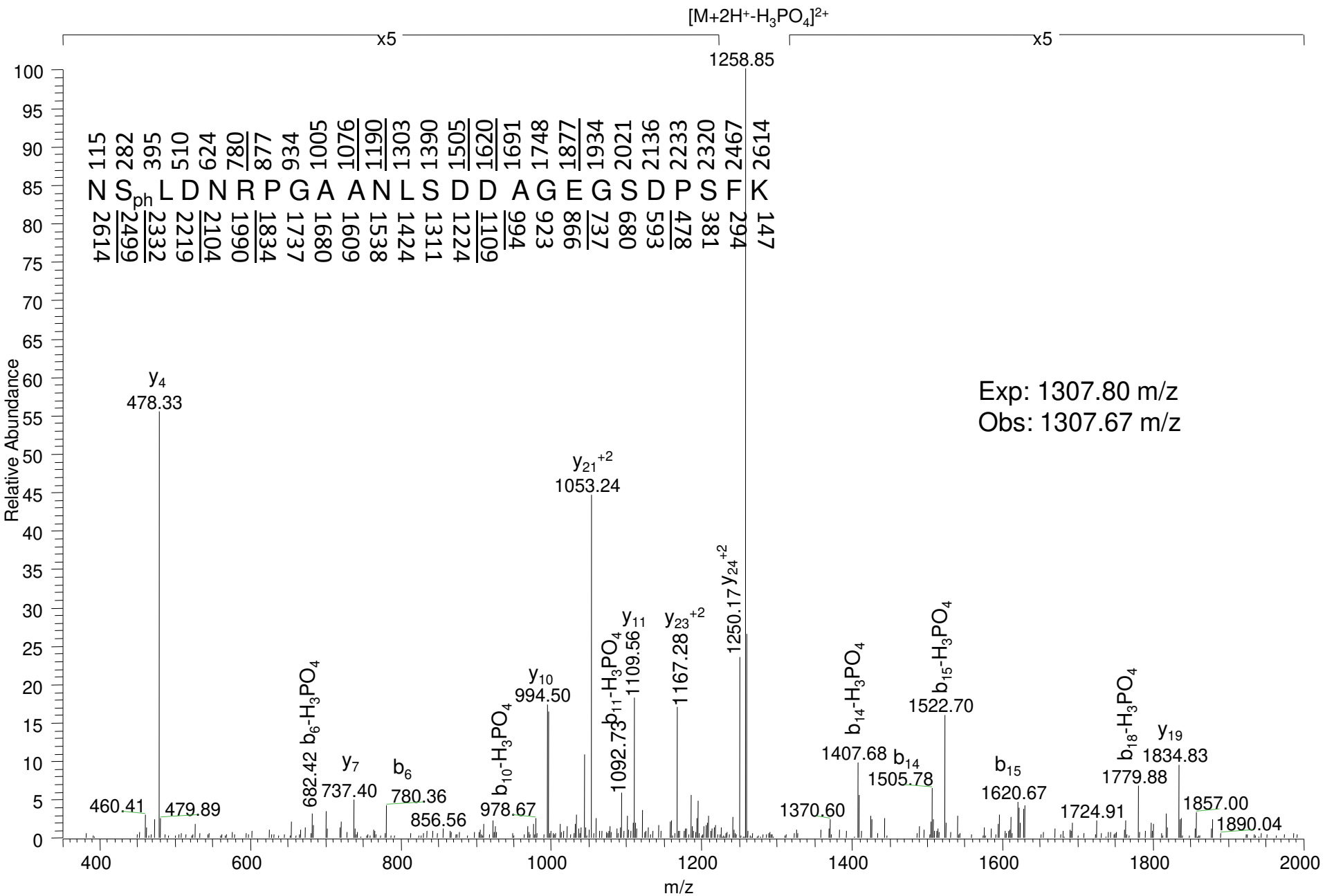


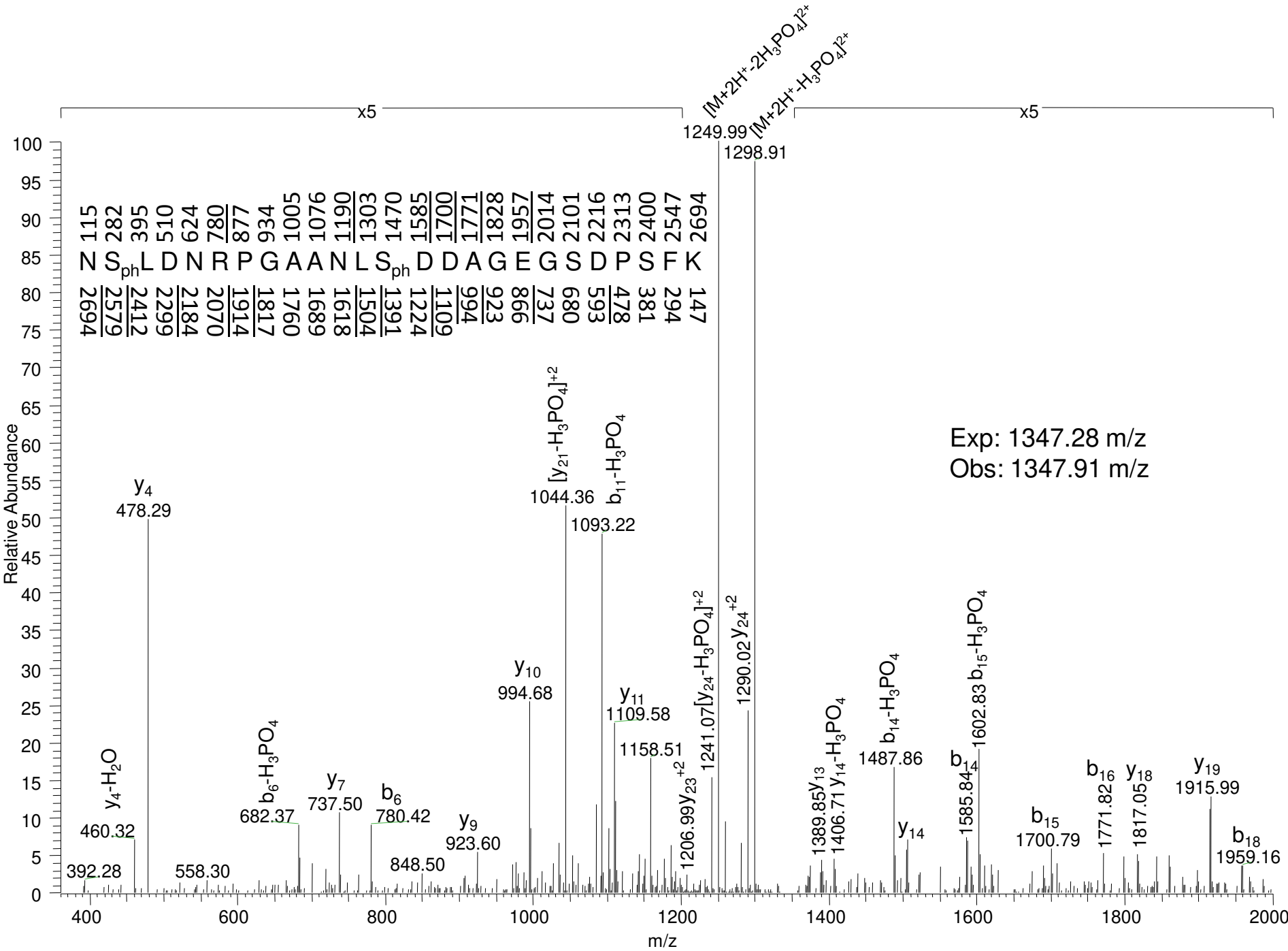


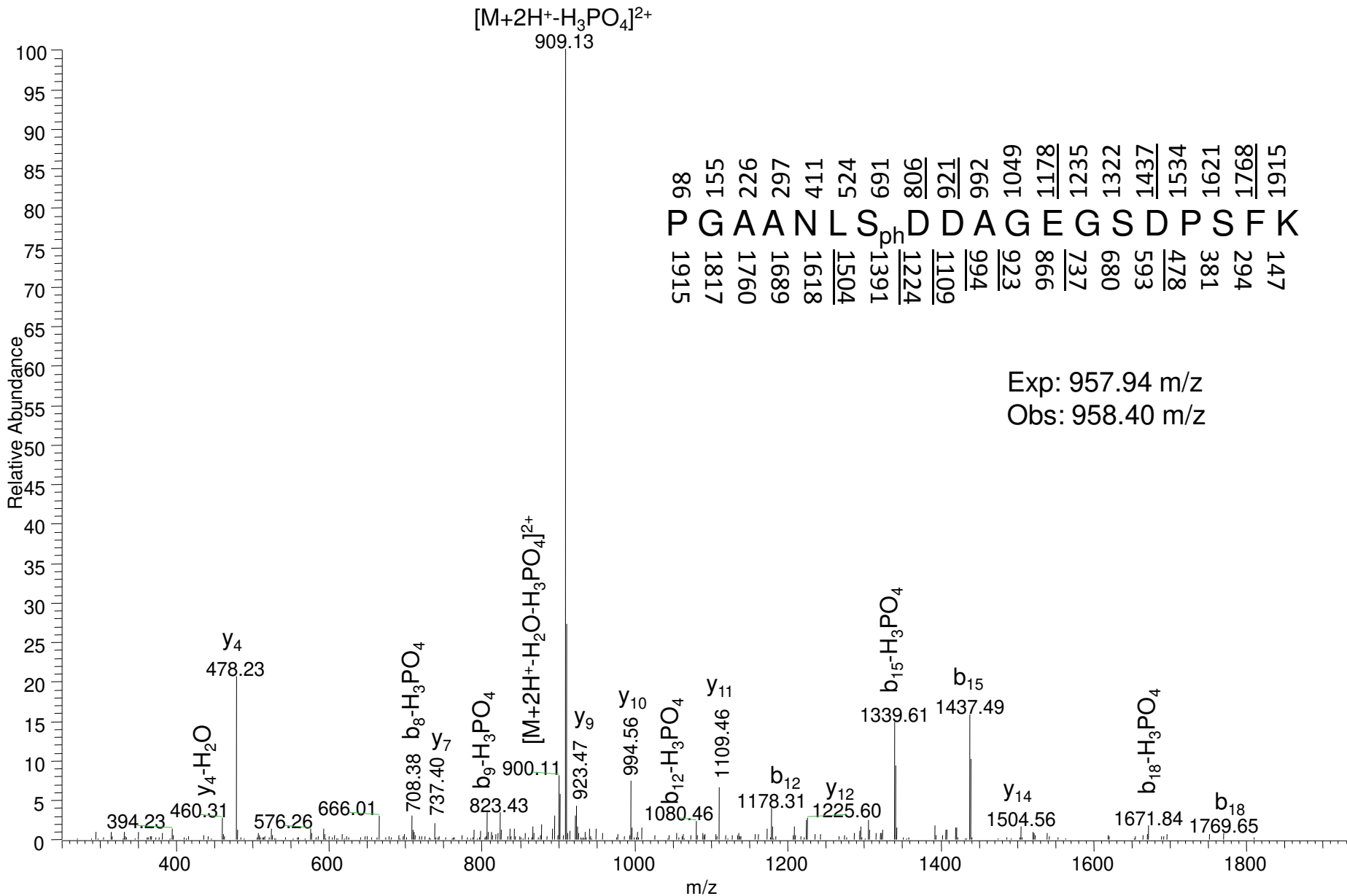


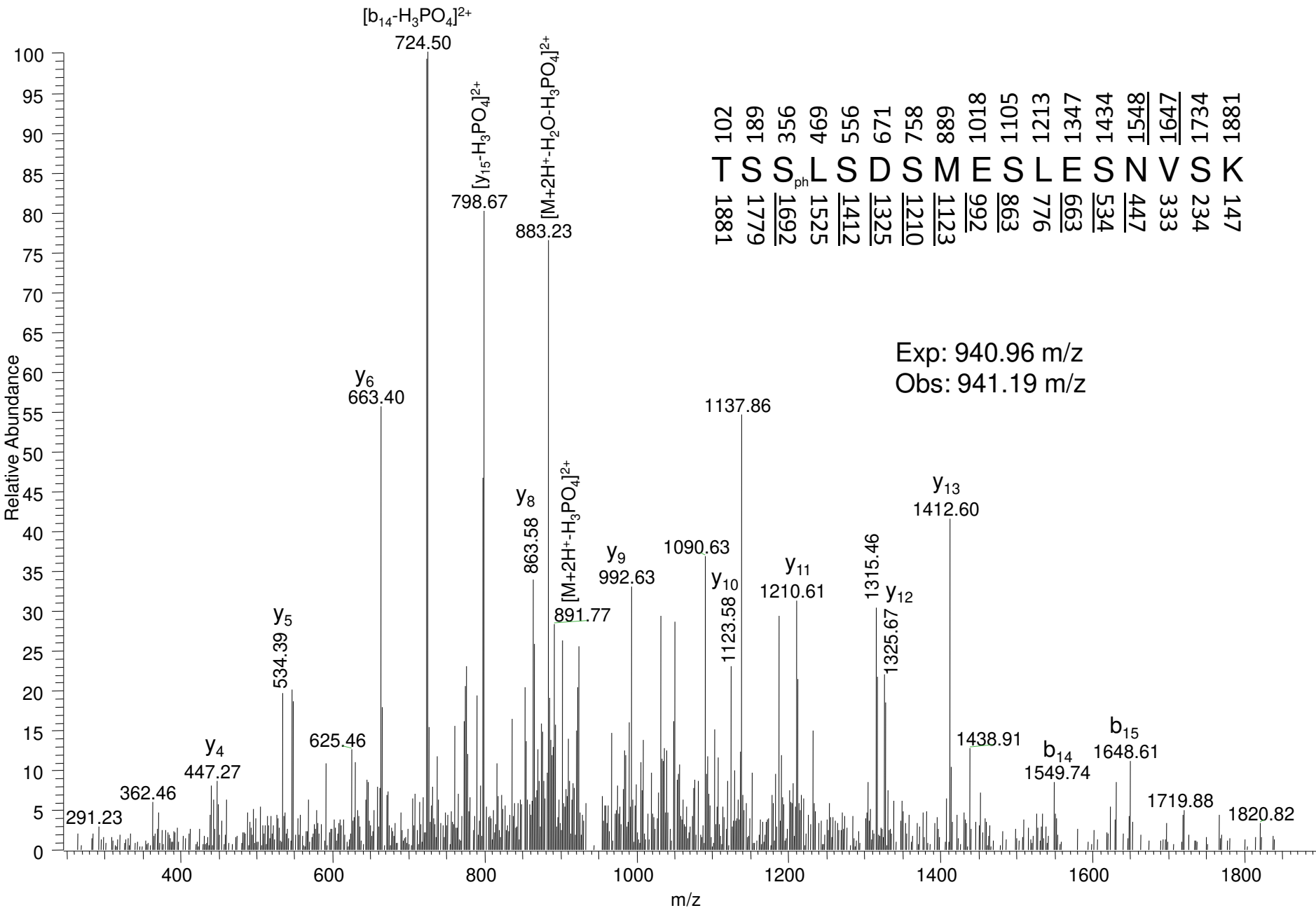
5112
 282
 395
 015
 429
 087
 778
 5001
 9701
 0611
 1303
 0361
 5051
 0291
 1691
 8711
 7781
 4361
 1202
 5512
 2155
 2040
 1873
 1760
 1645
 1531
 1375
 1278
 1221
 1150
 1079
 965
 852
 765
 650
 535
 464
 407
 278
 221
 134

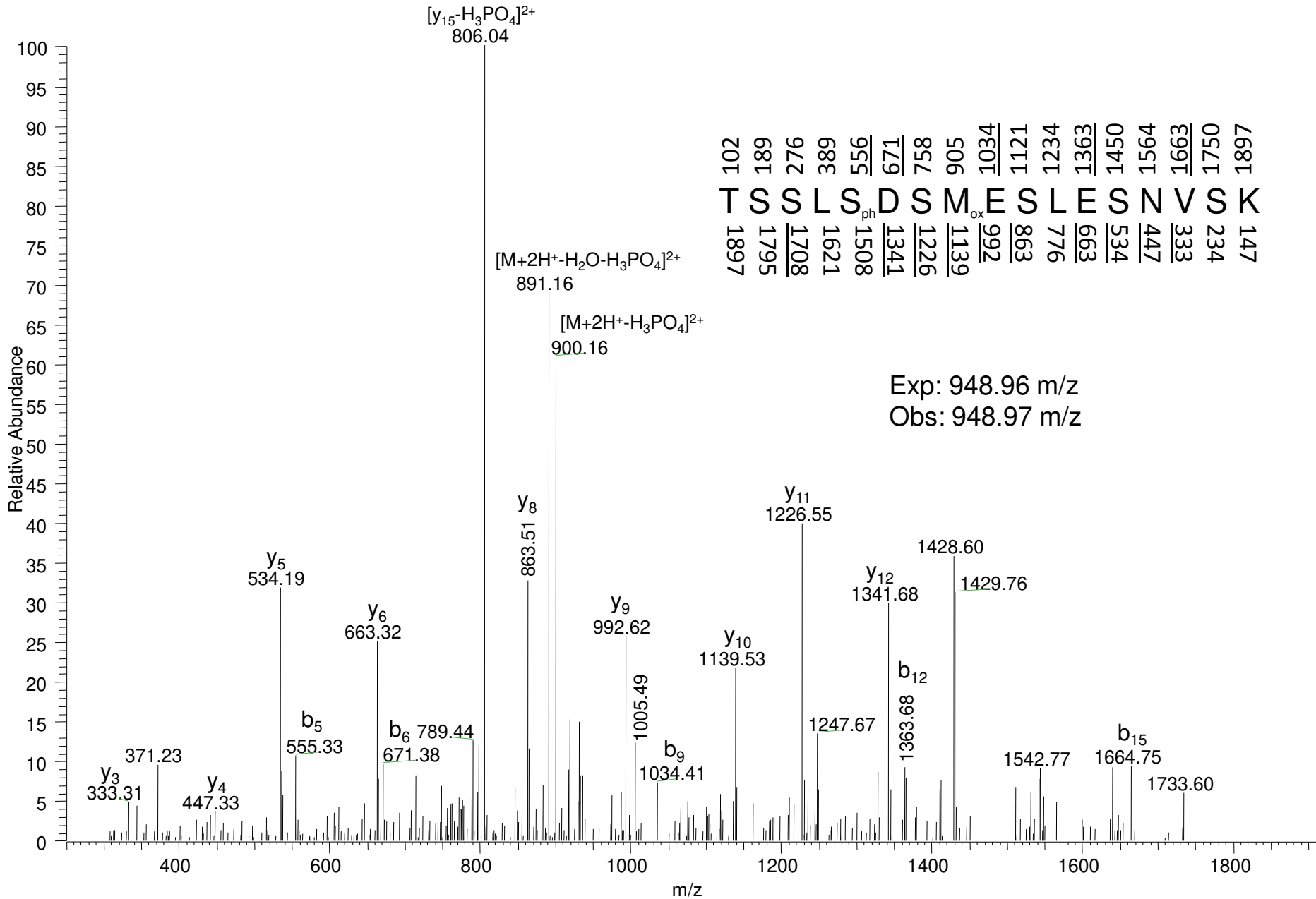
Exp: 1078.02 m/z
 Obs: 1078.20 m/z

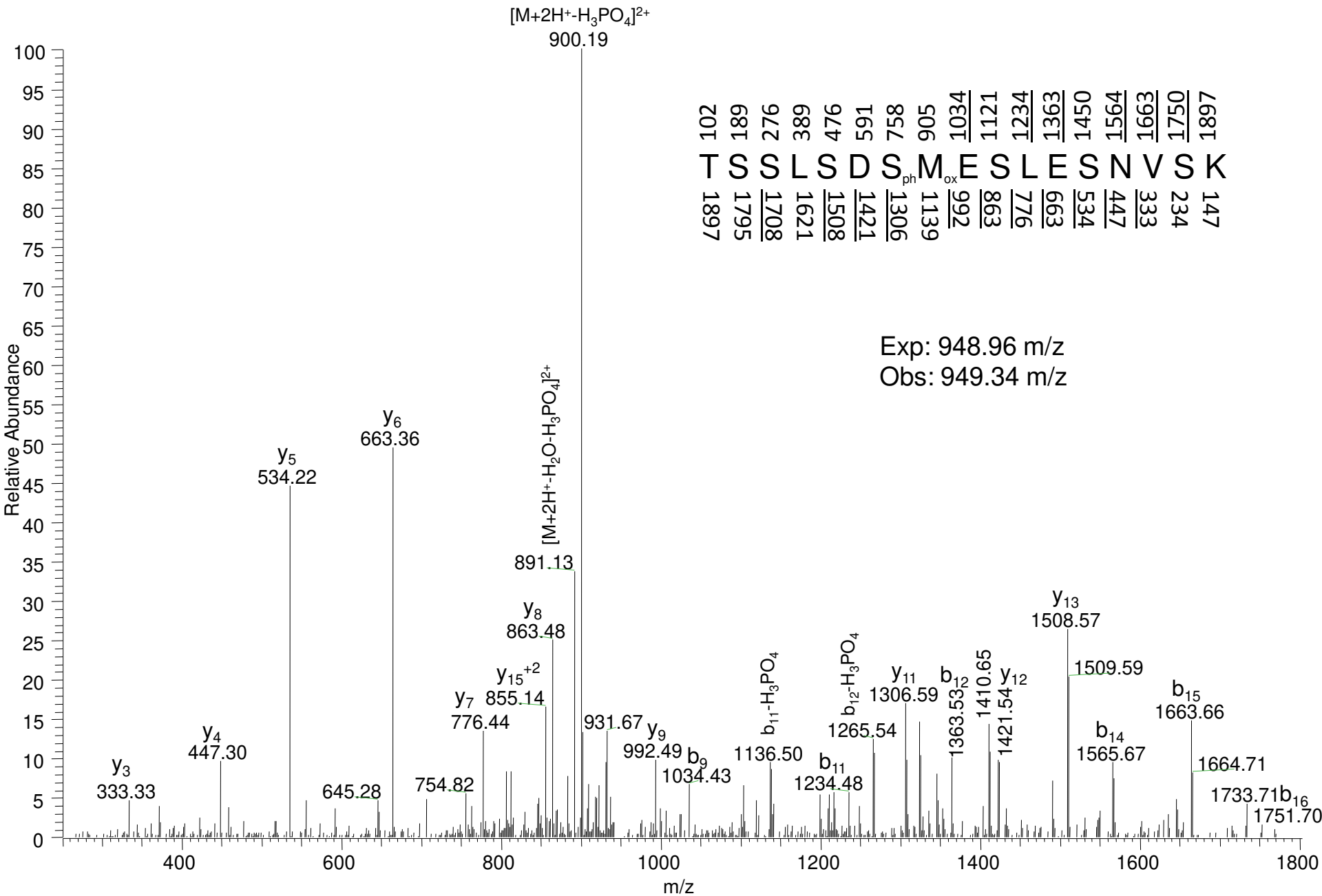


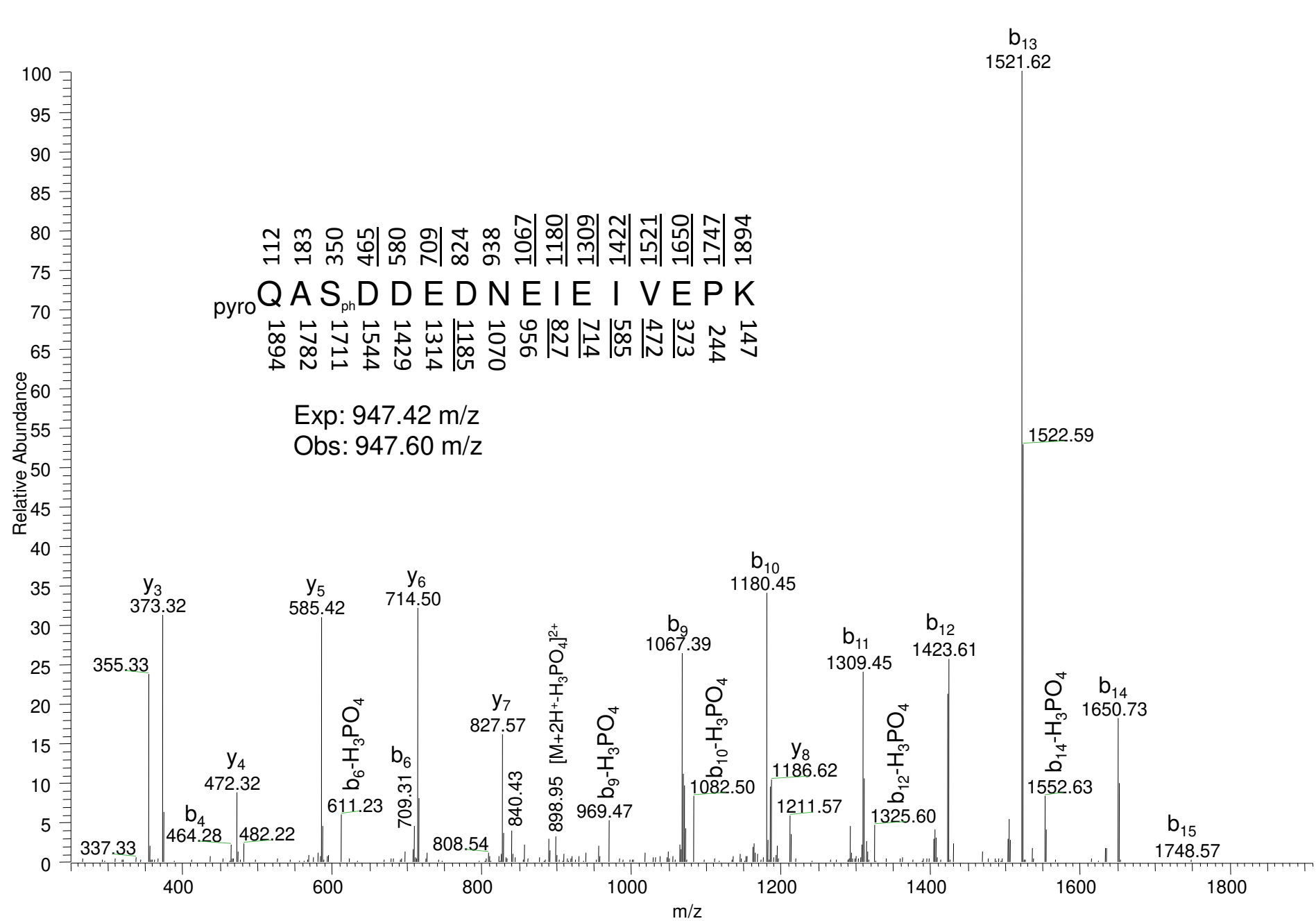


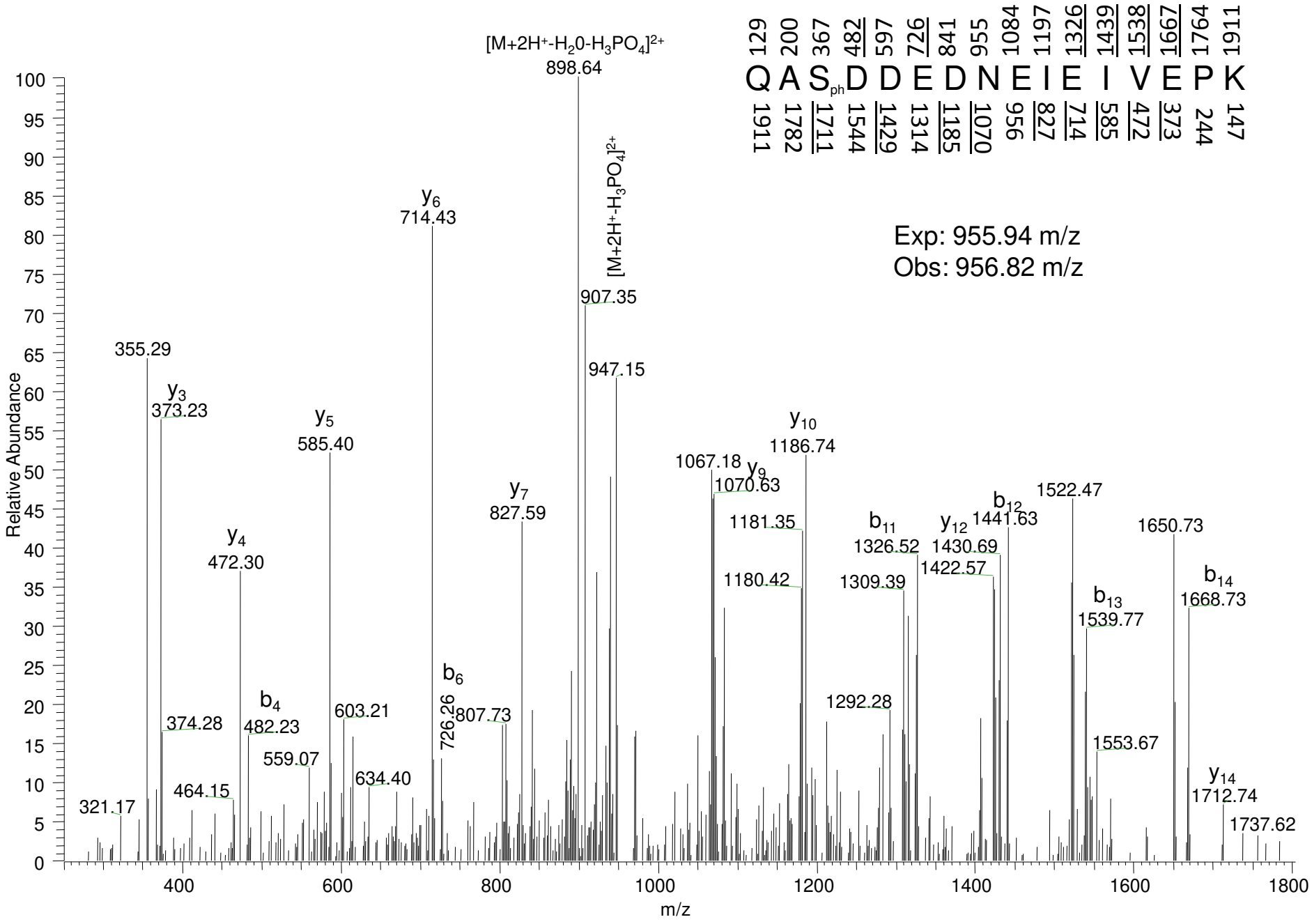


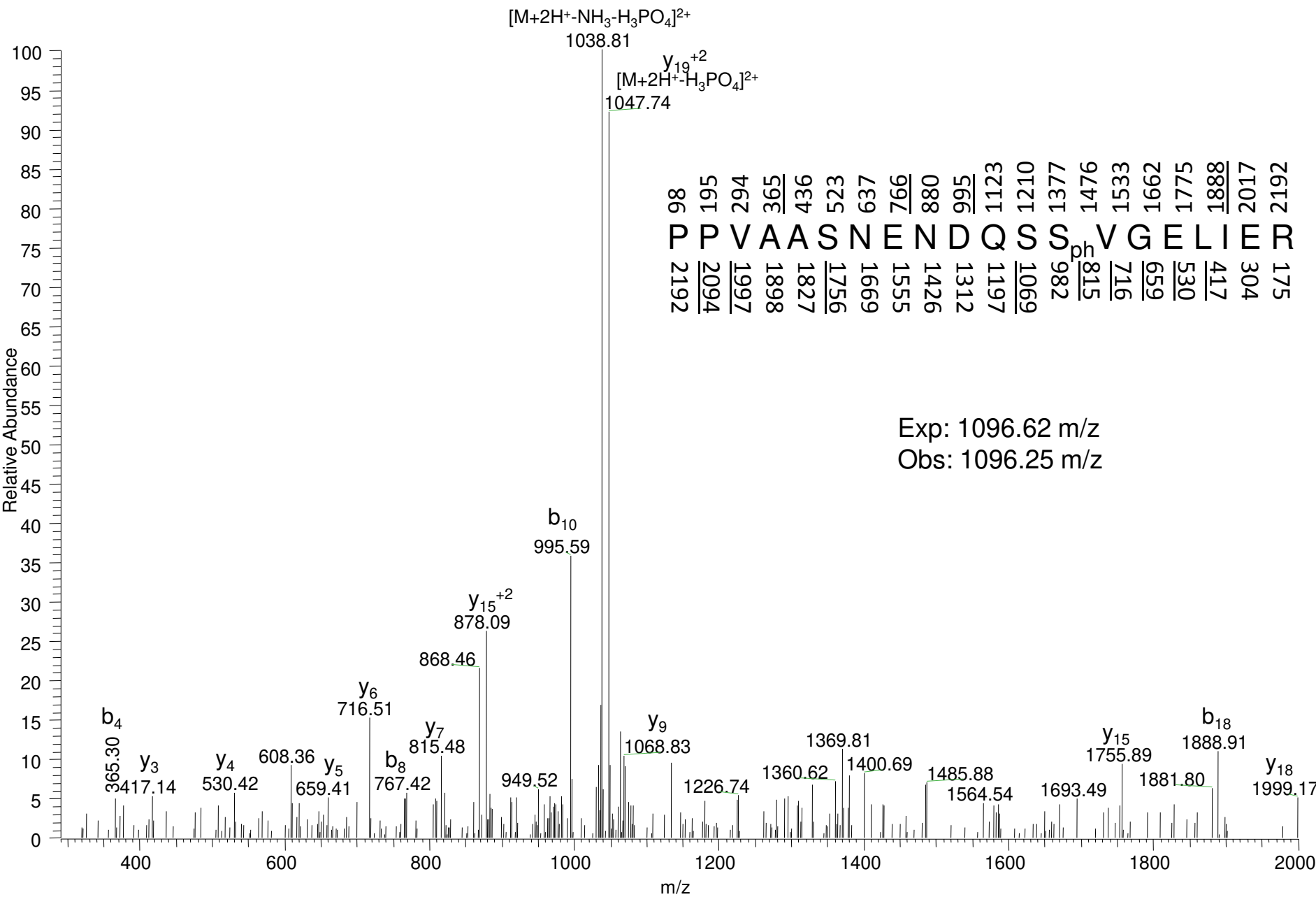




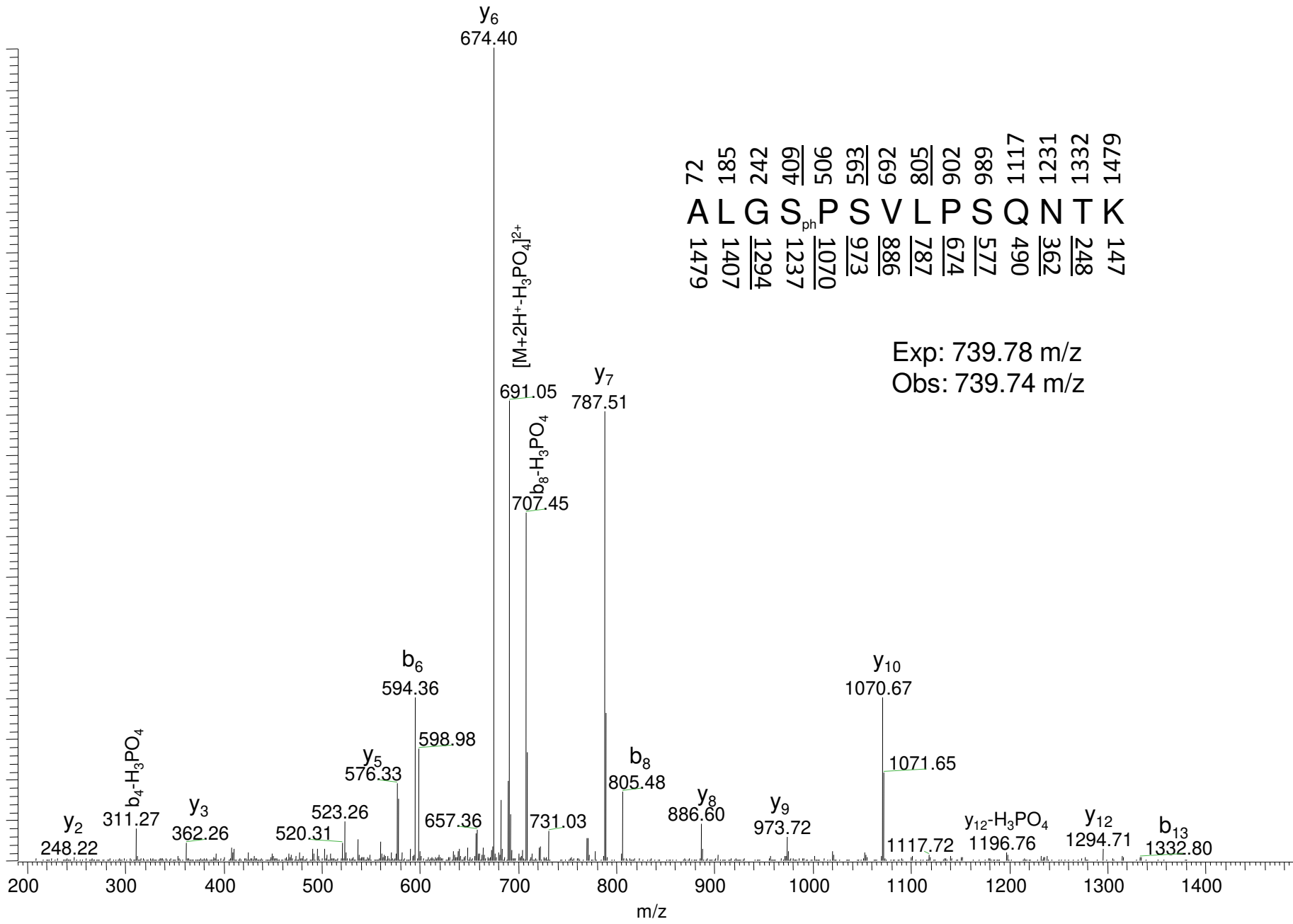








Relative Abundance



674T 147
232T 248
132T 362
711T 490
686 577
206 674
508 787
269 886
365 973
905 1070
607 1237
272 1294
581 1407
72 1479

ALGSPSVLPSTQNTK

Exp: 739.78 m/z
Obs: 739.74 m/z