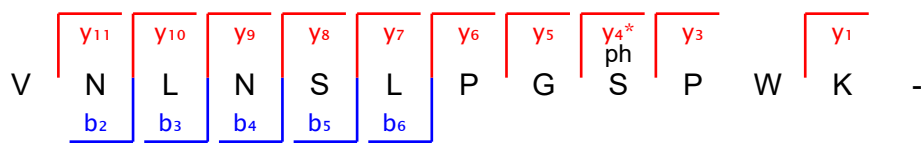
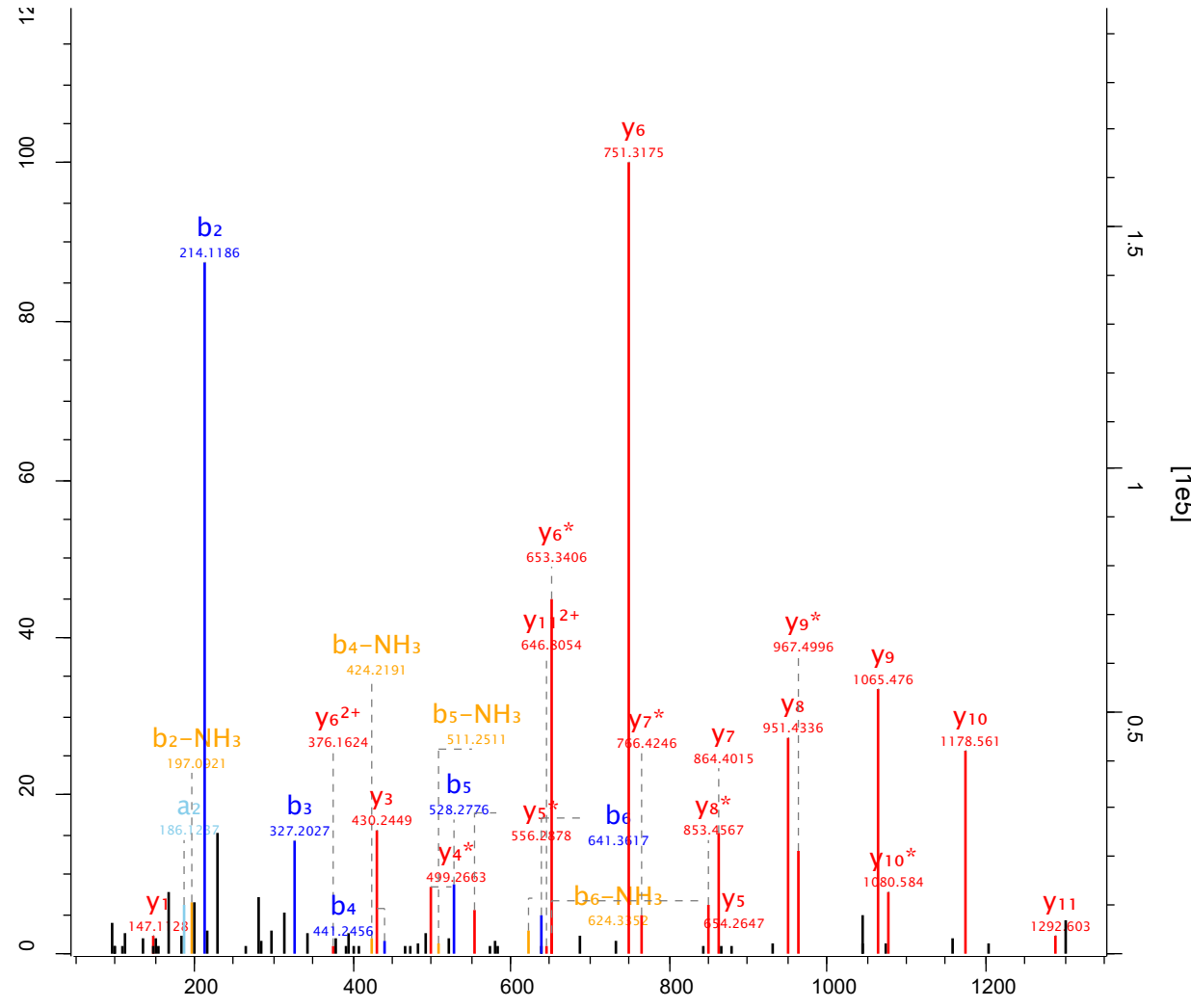
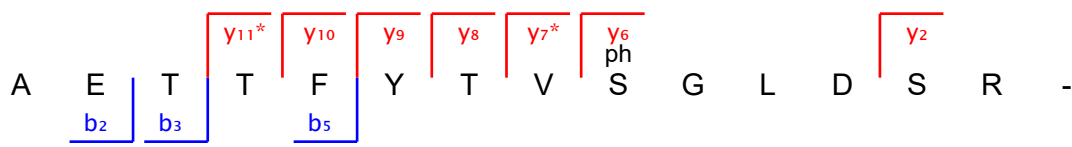
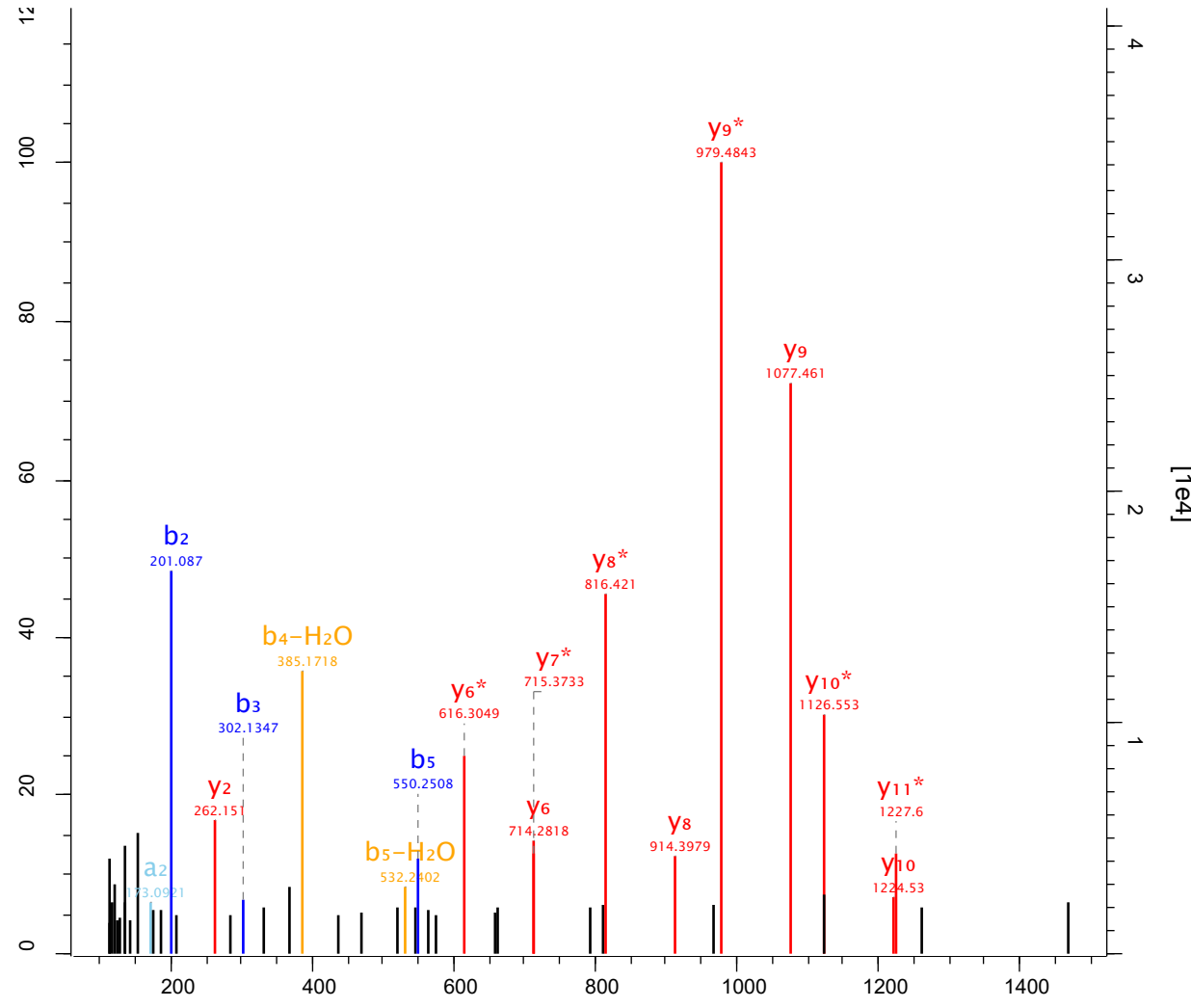


Supplementary Figure 2: Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.

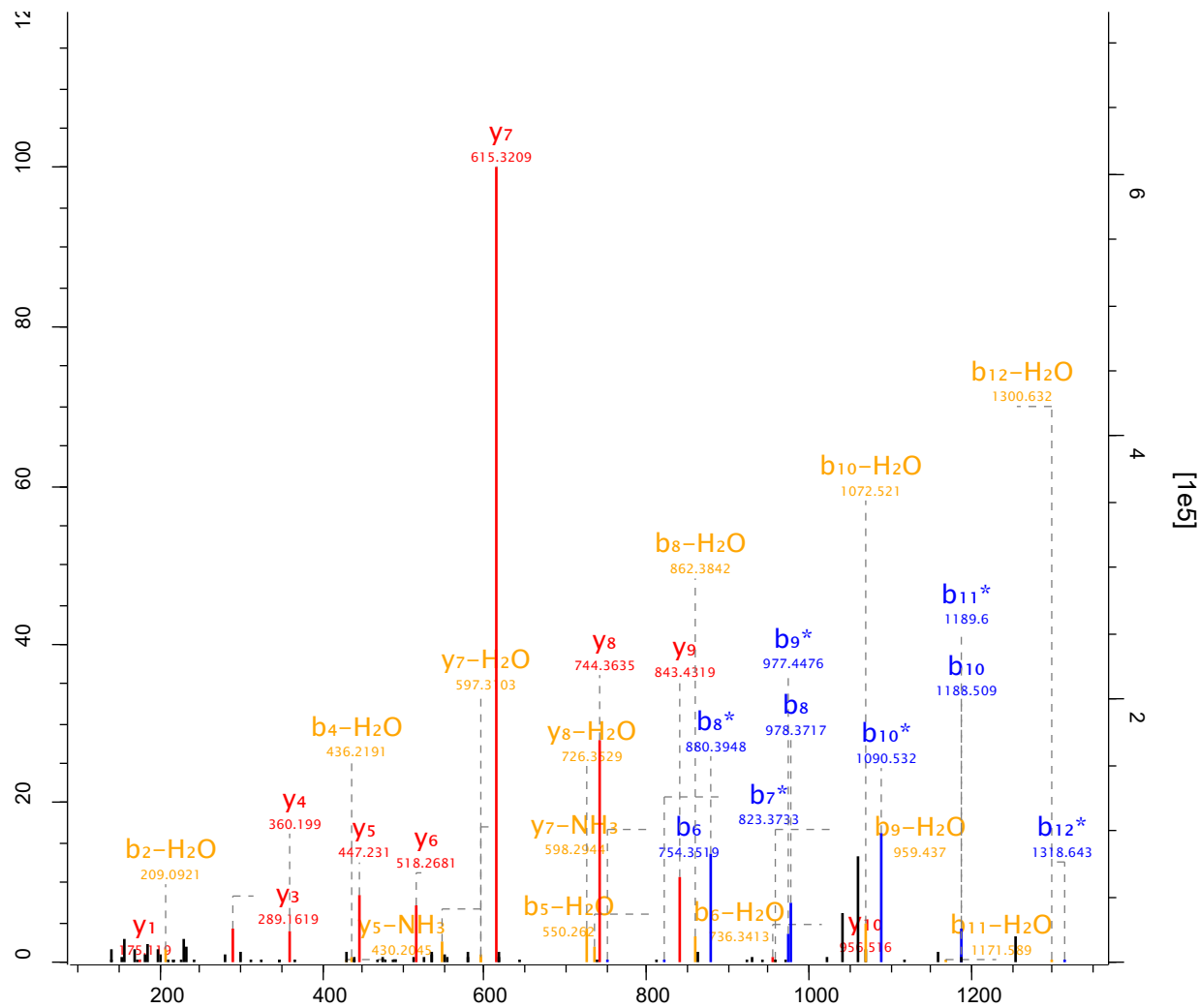
Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
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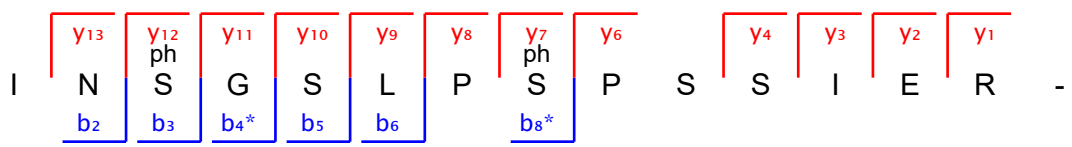
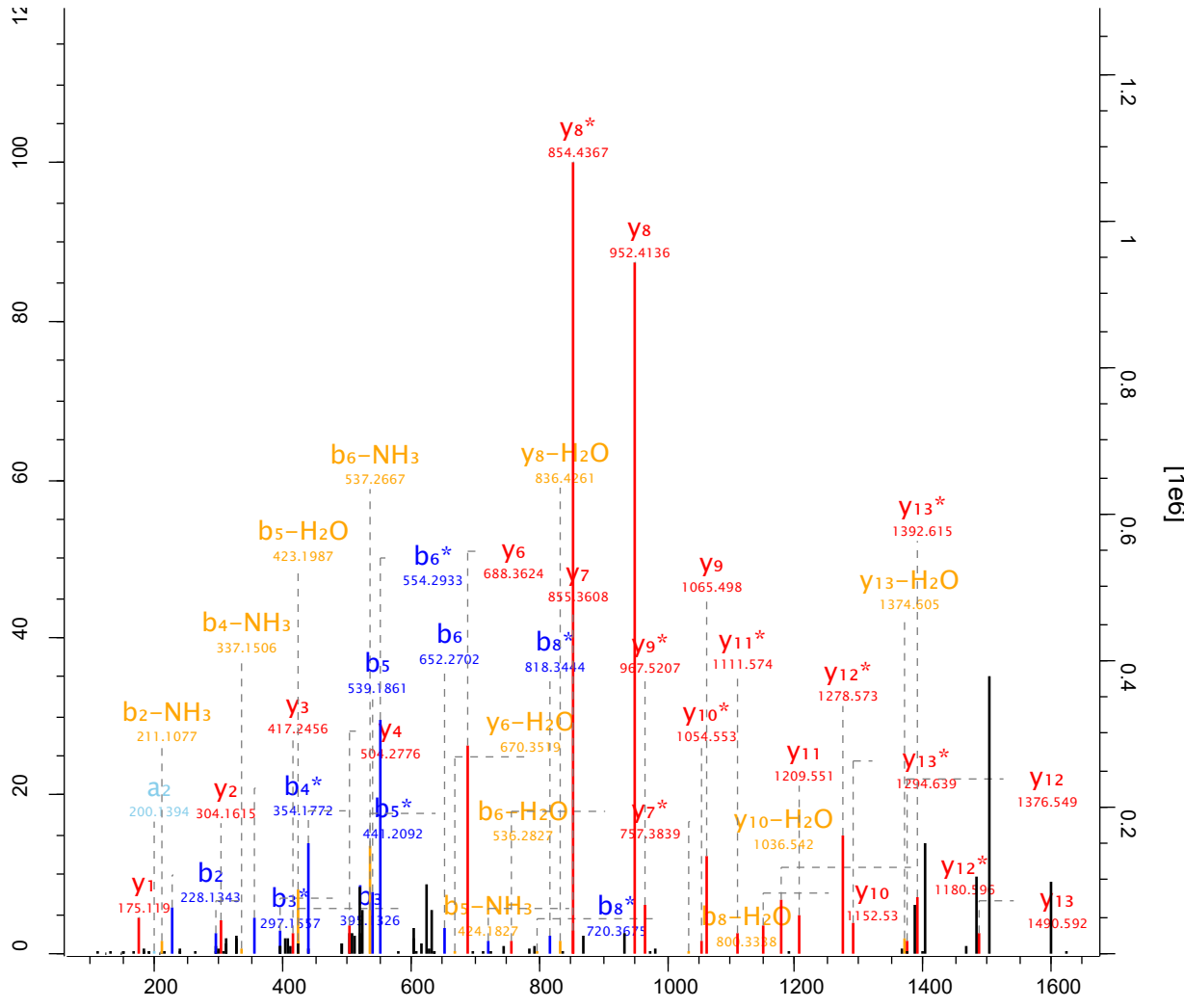


Raw file Scan Method Score m/z
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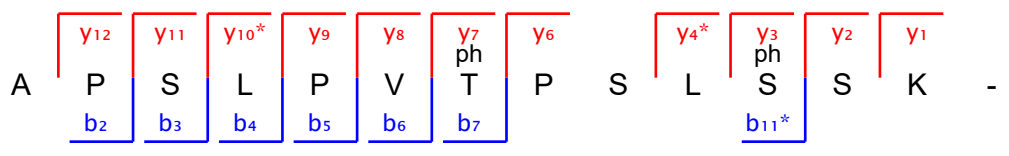
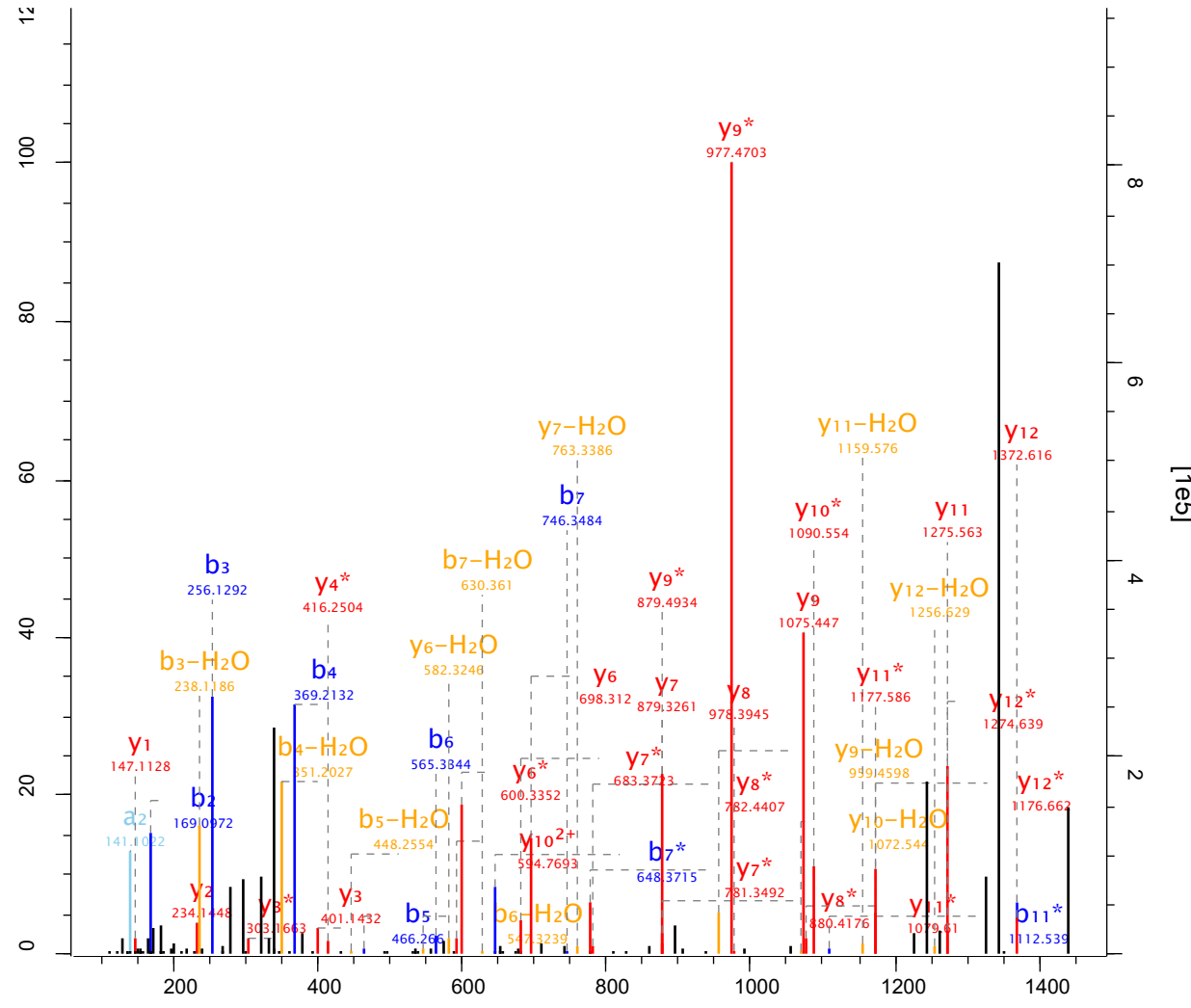


- E P V Q N W S G P L V E P A S
 b6 b7* b8 b9* b10 b11* b12*
 y4 y3 y1
 A G G R -

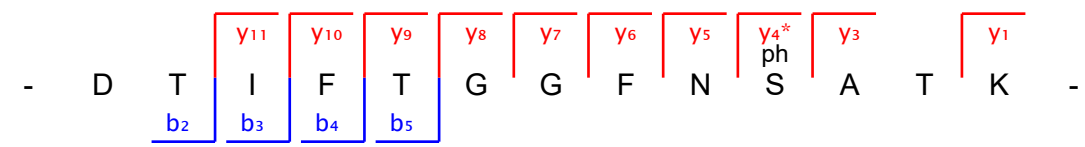
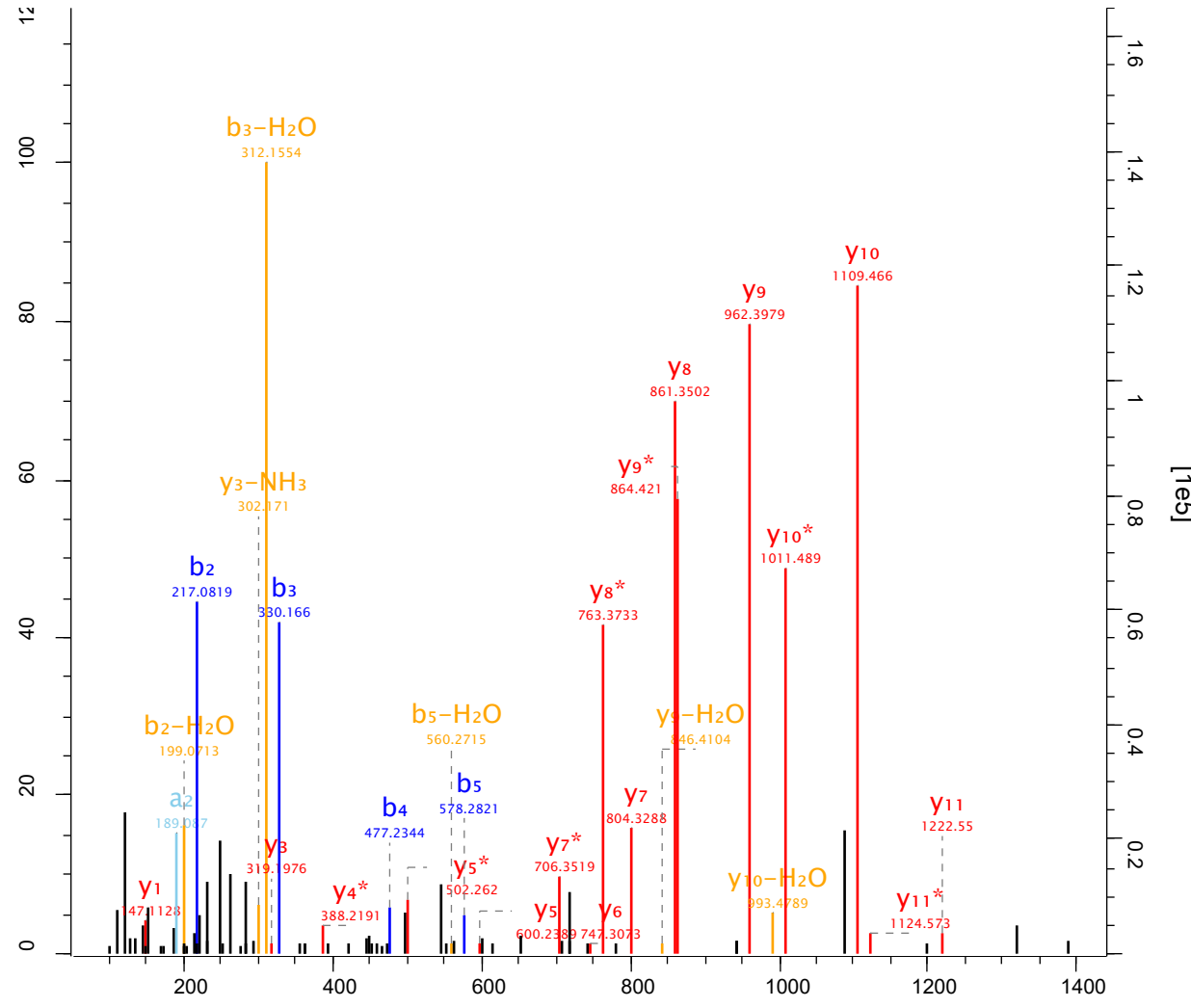
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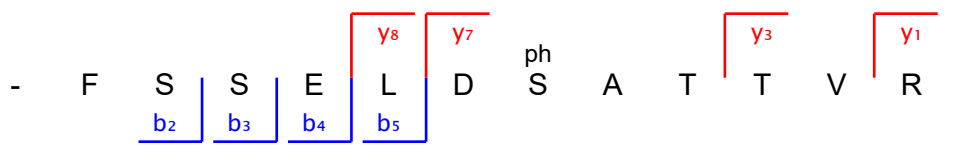
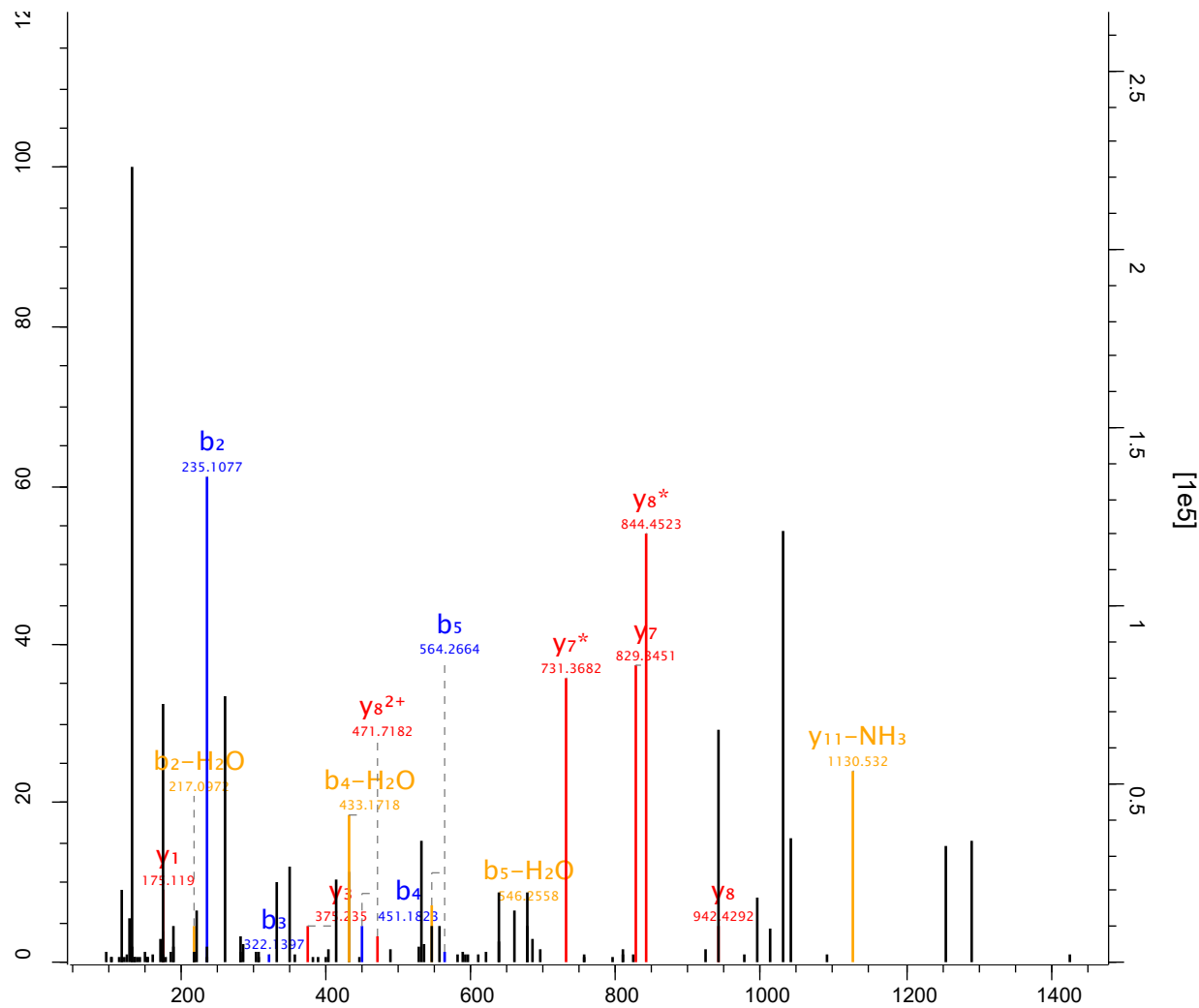
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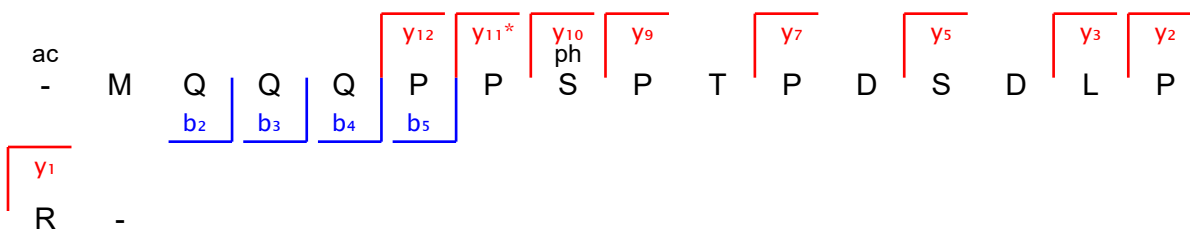
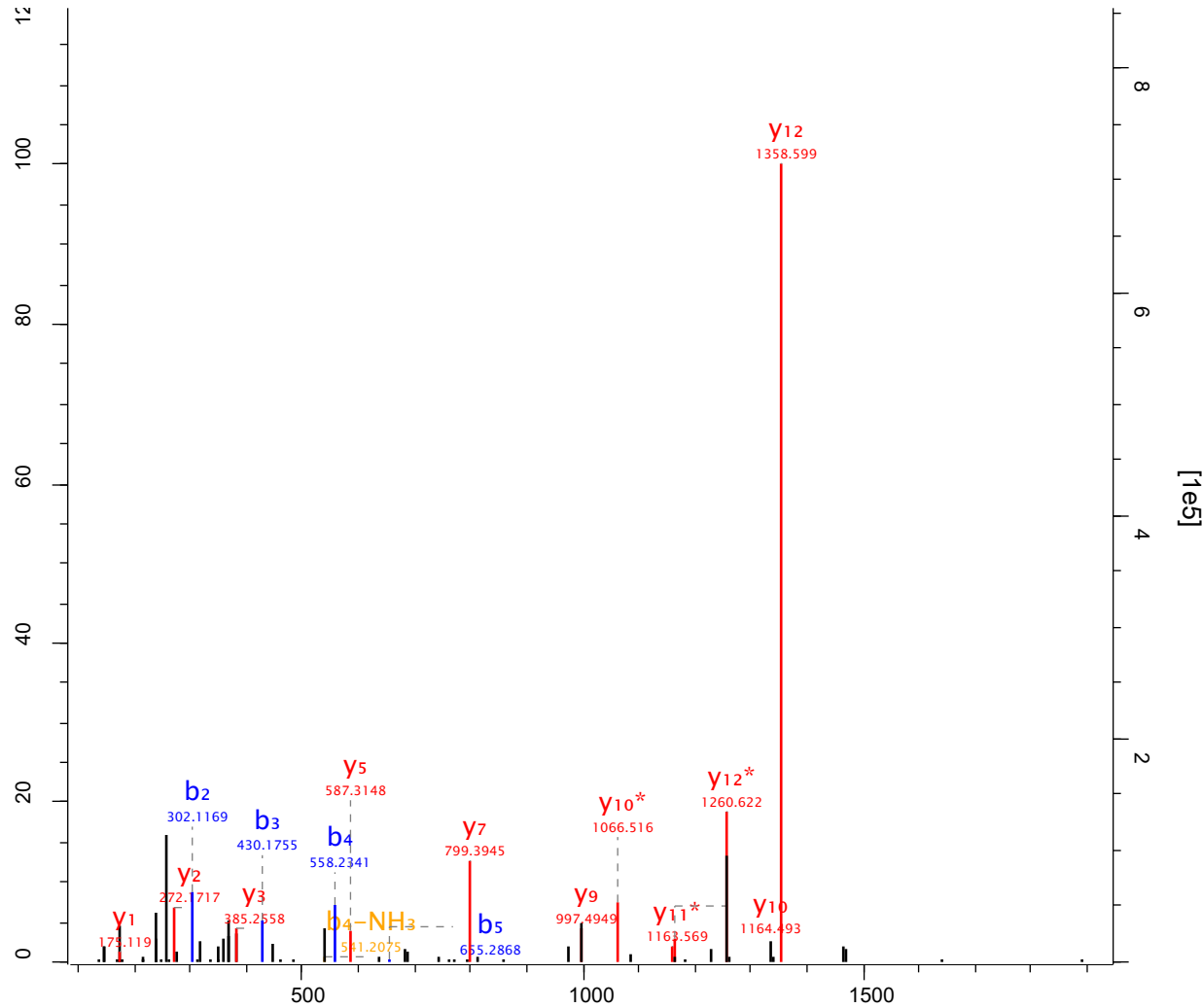
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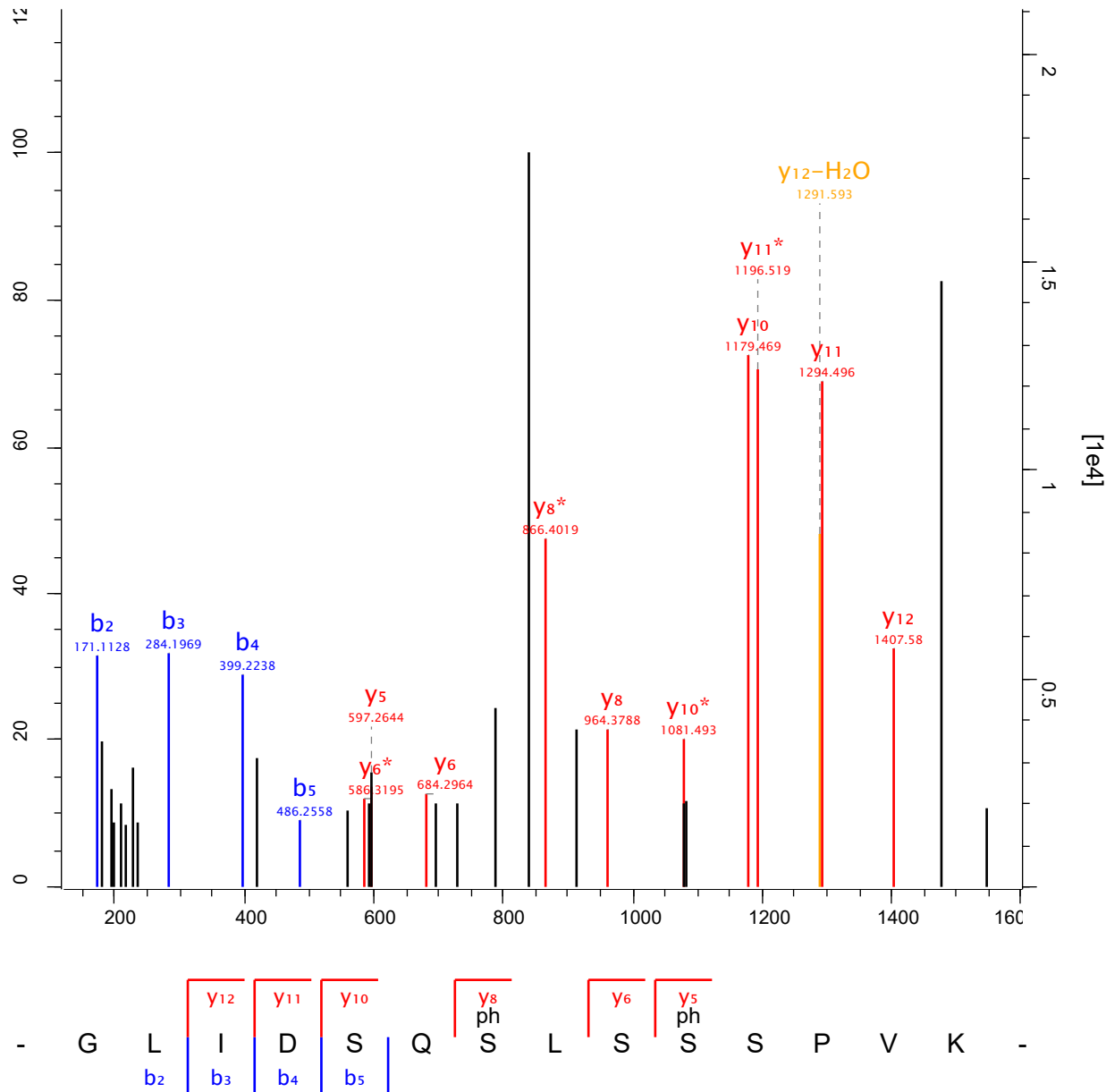
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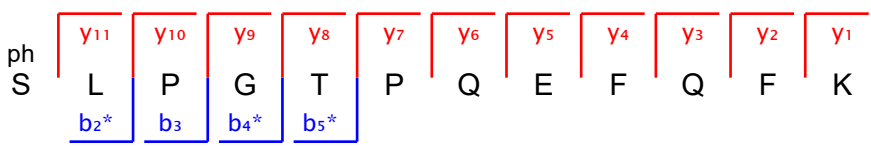
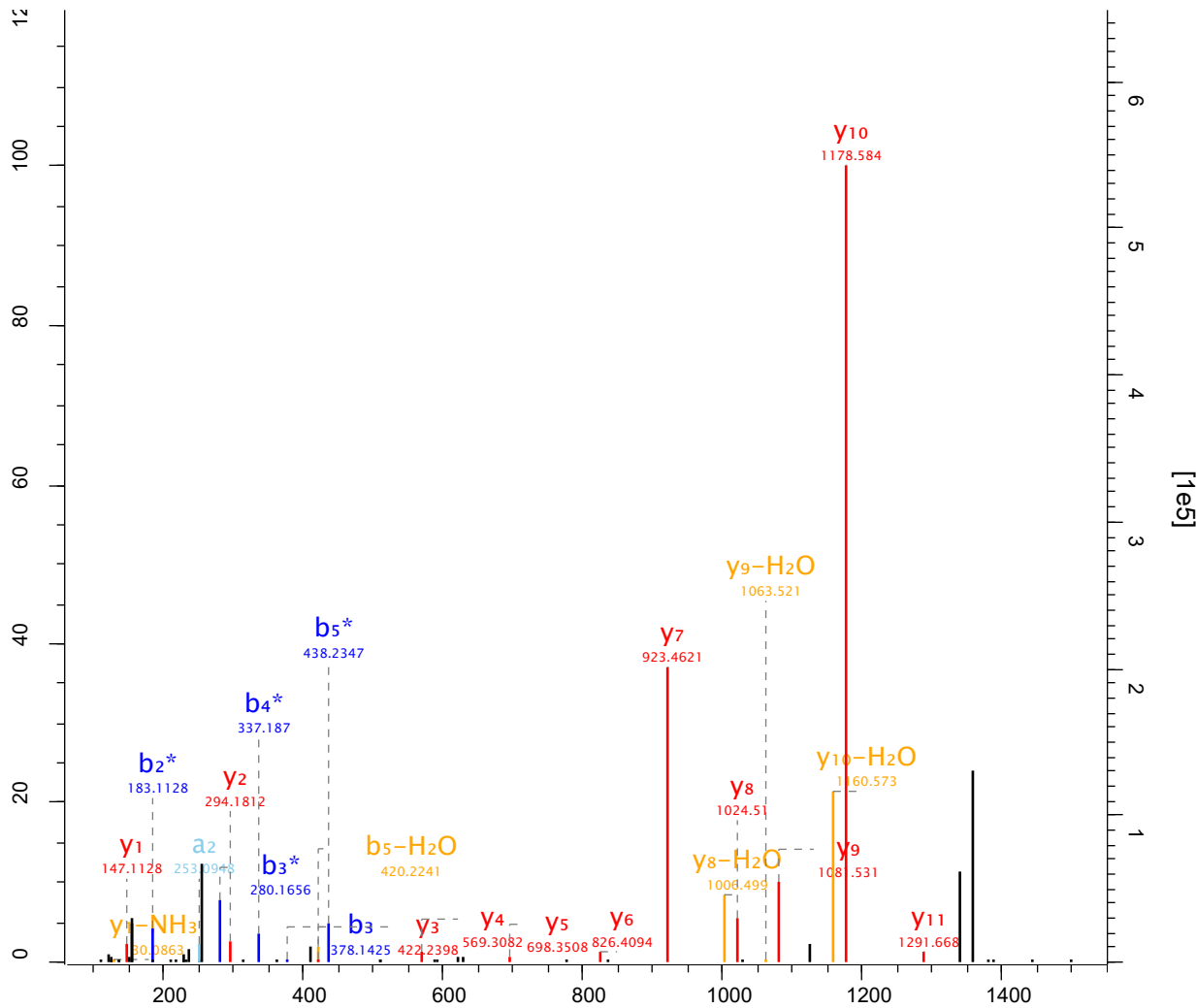
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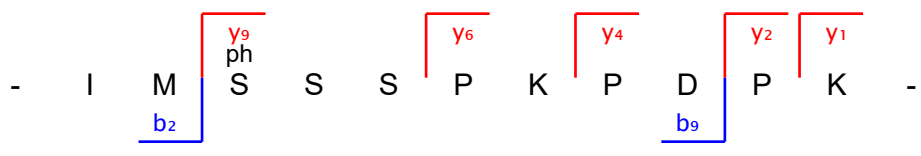
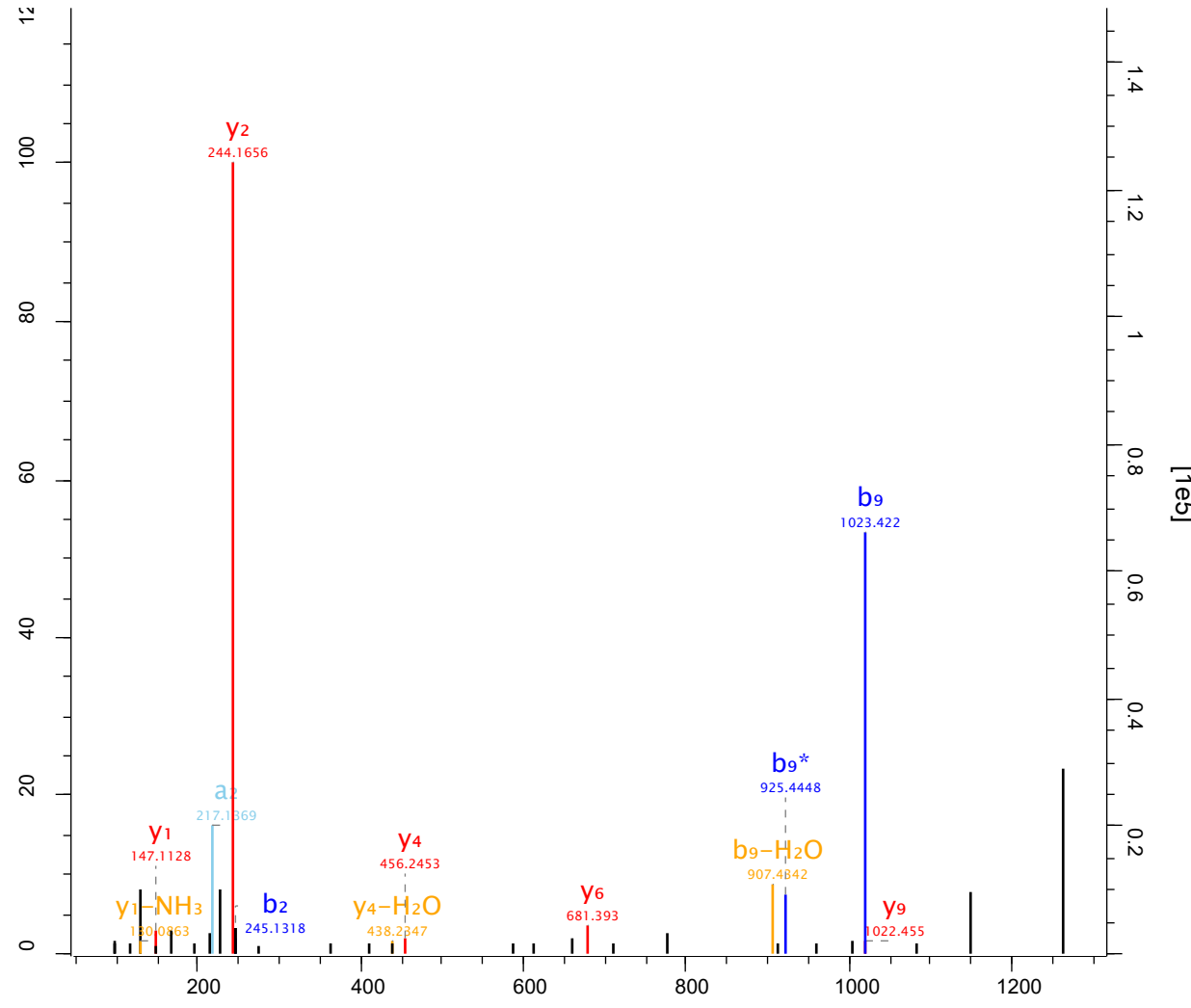
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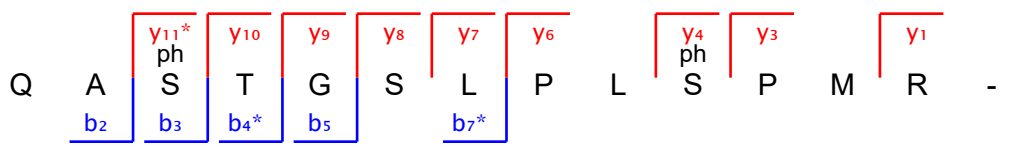
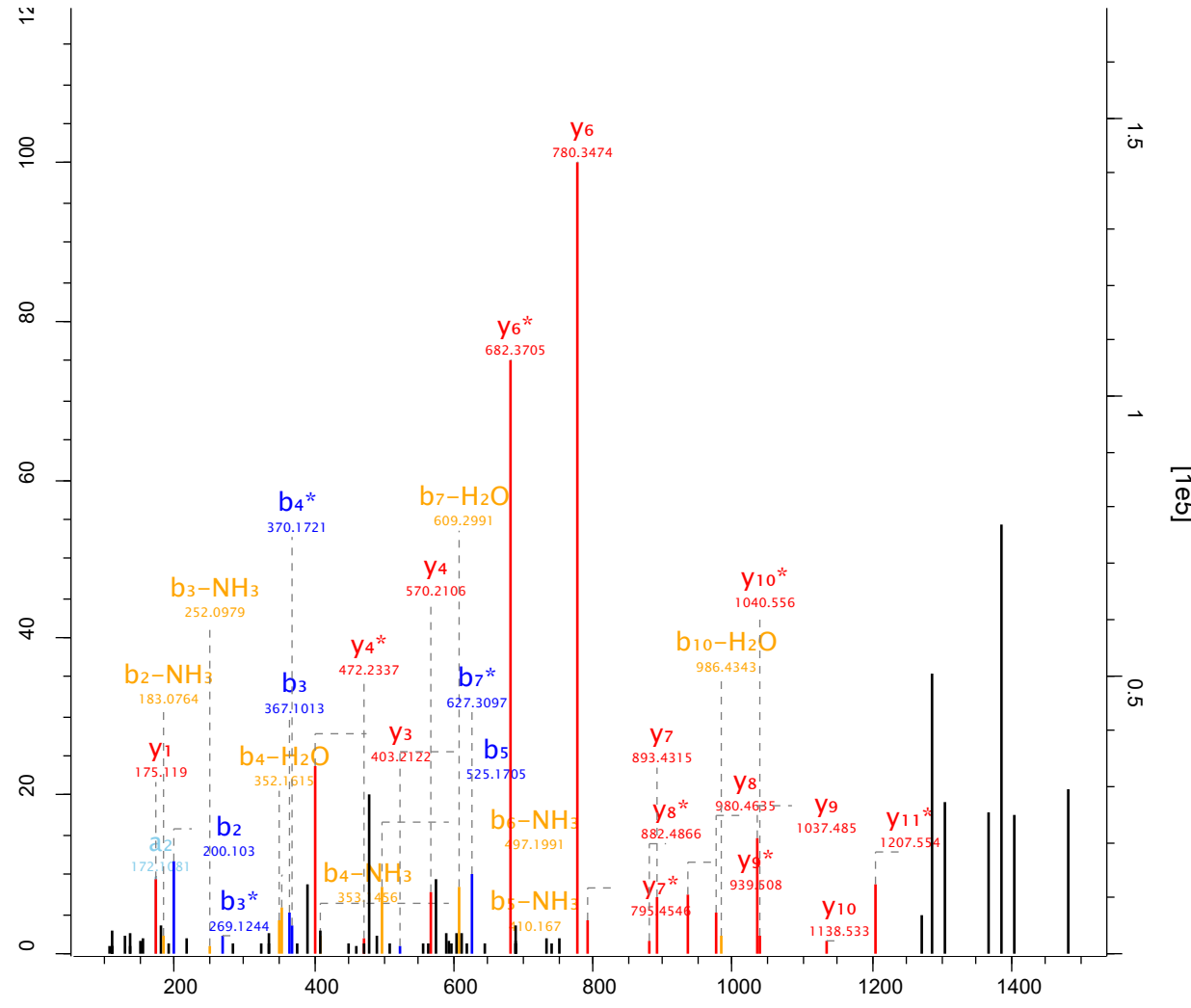
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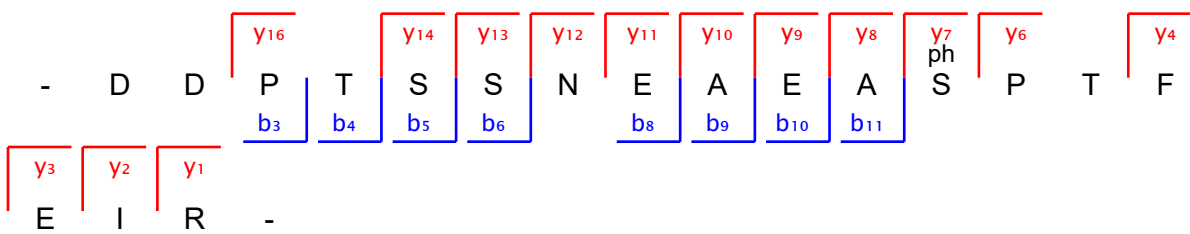
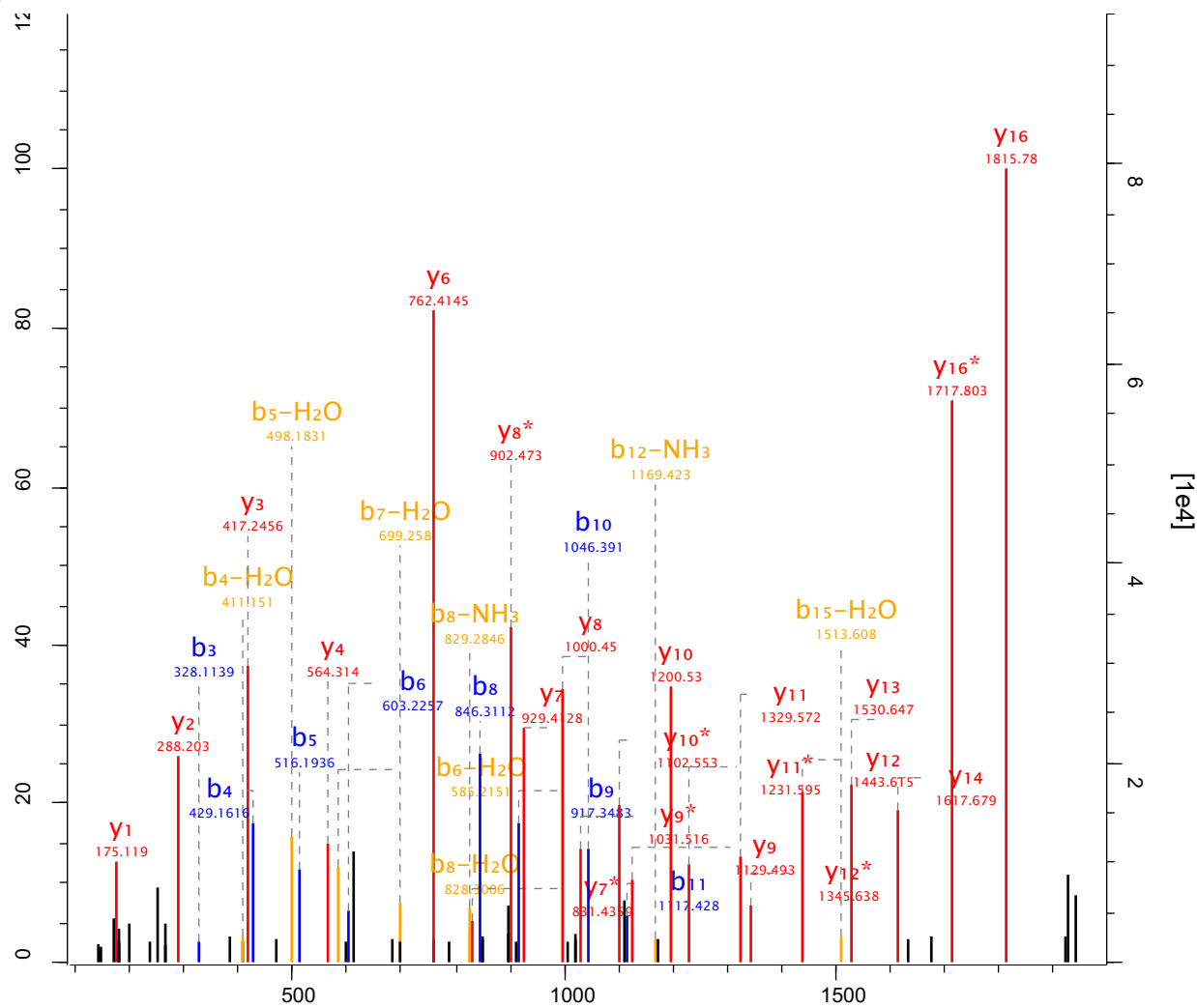
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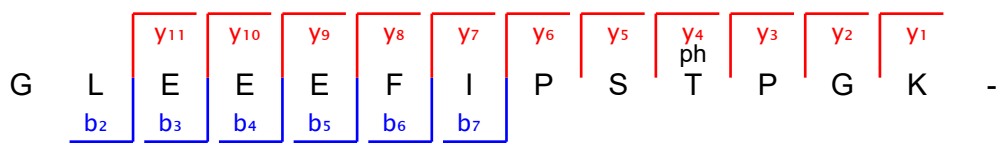
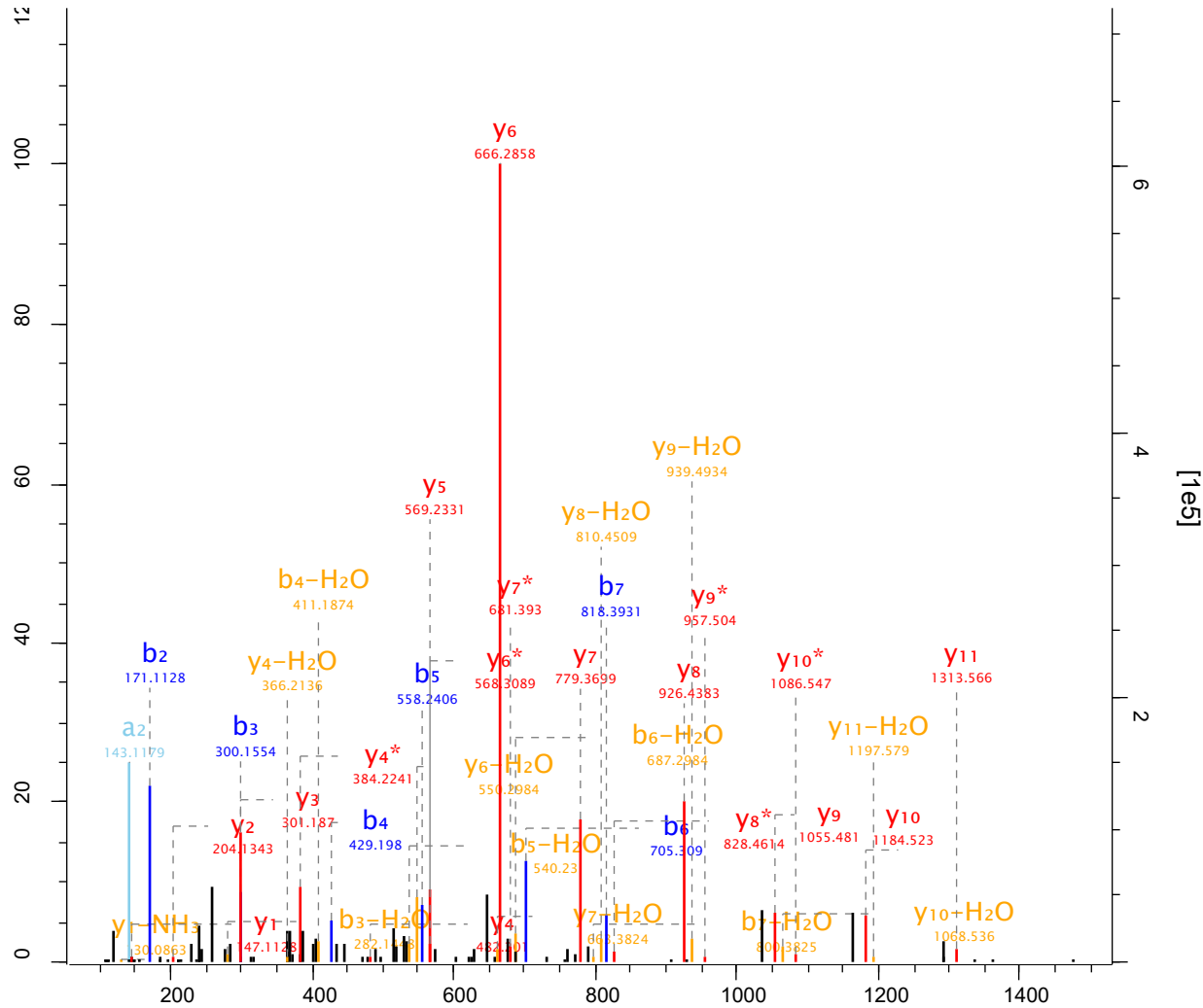
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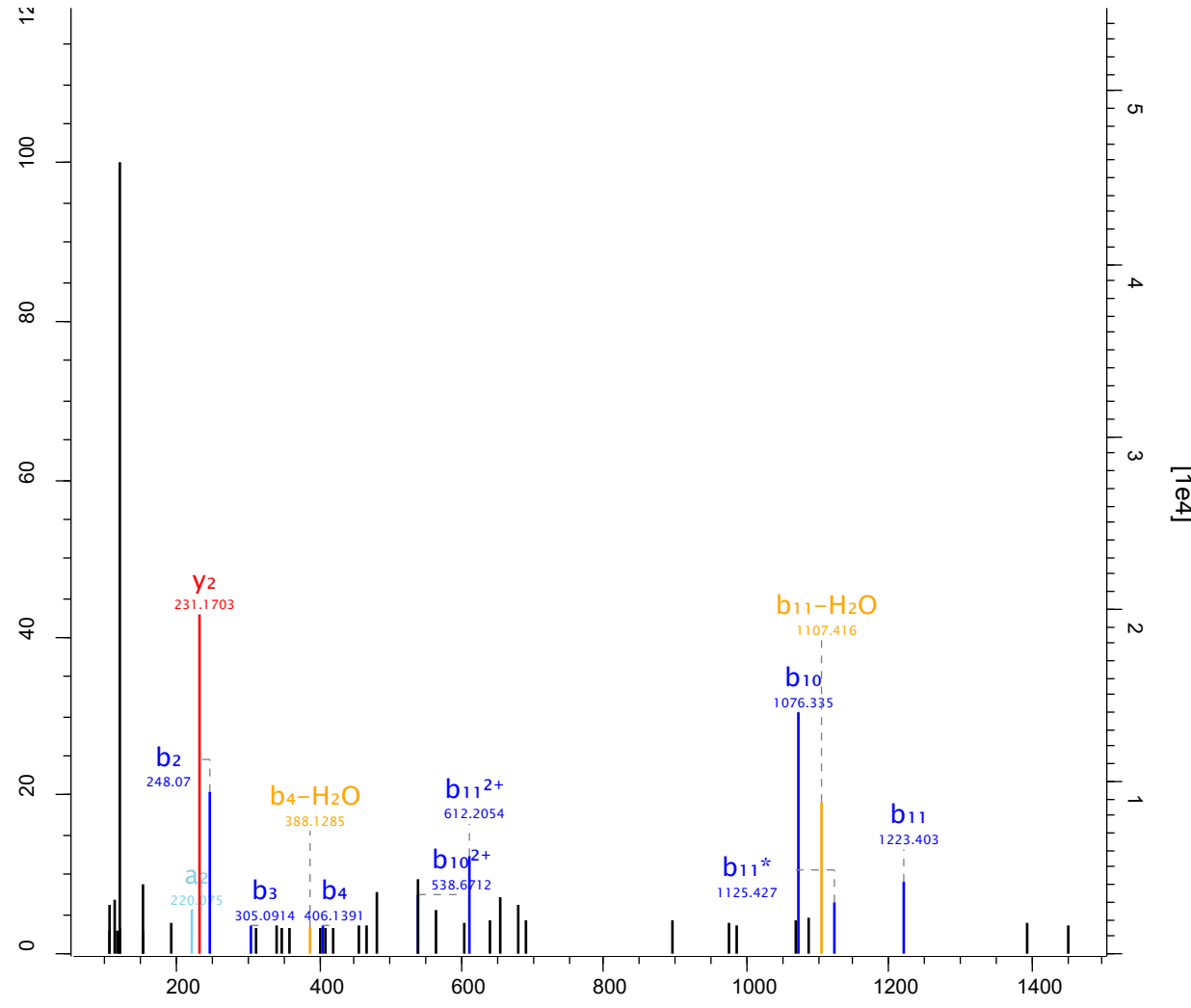
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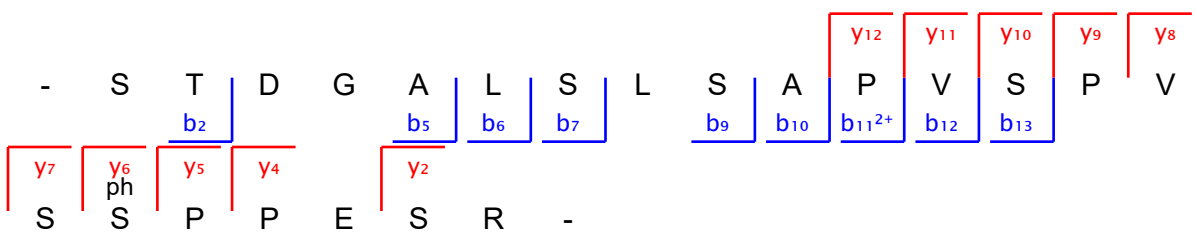
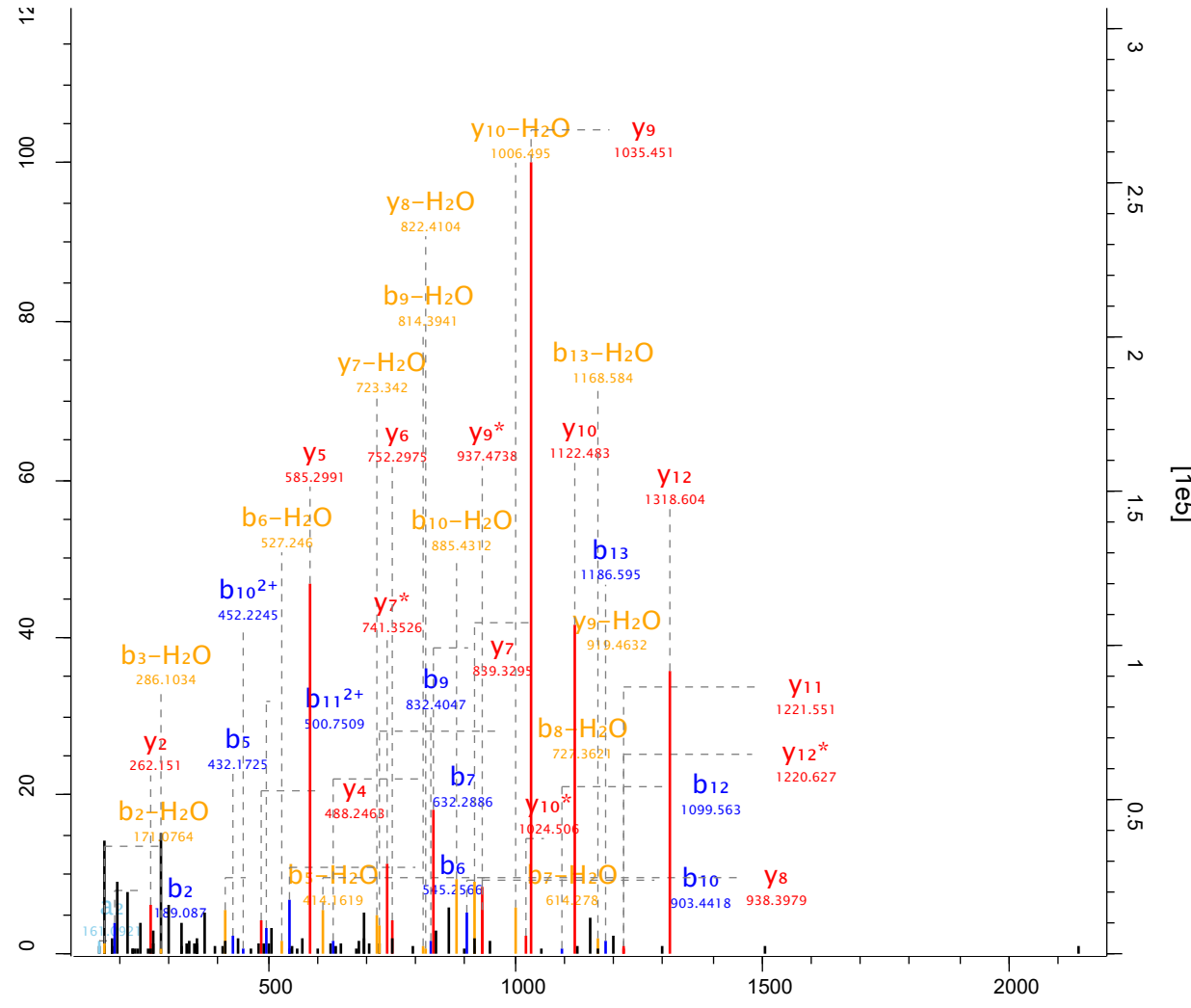


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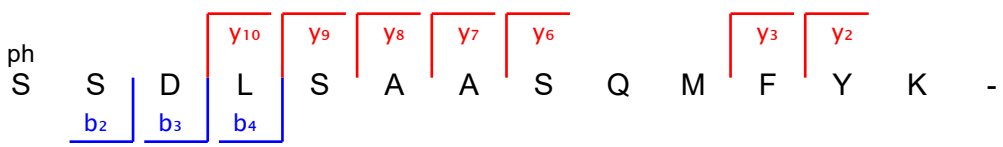
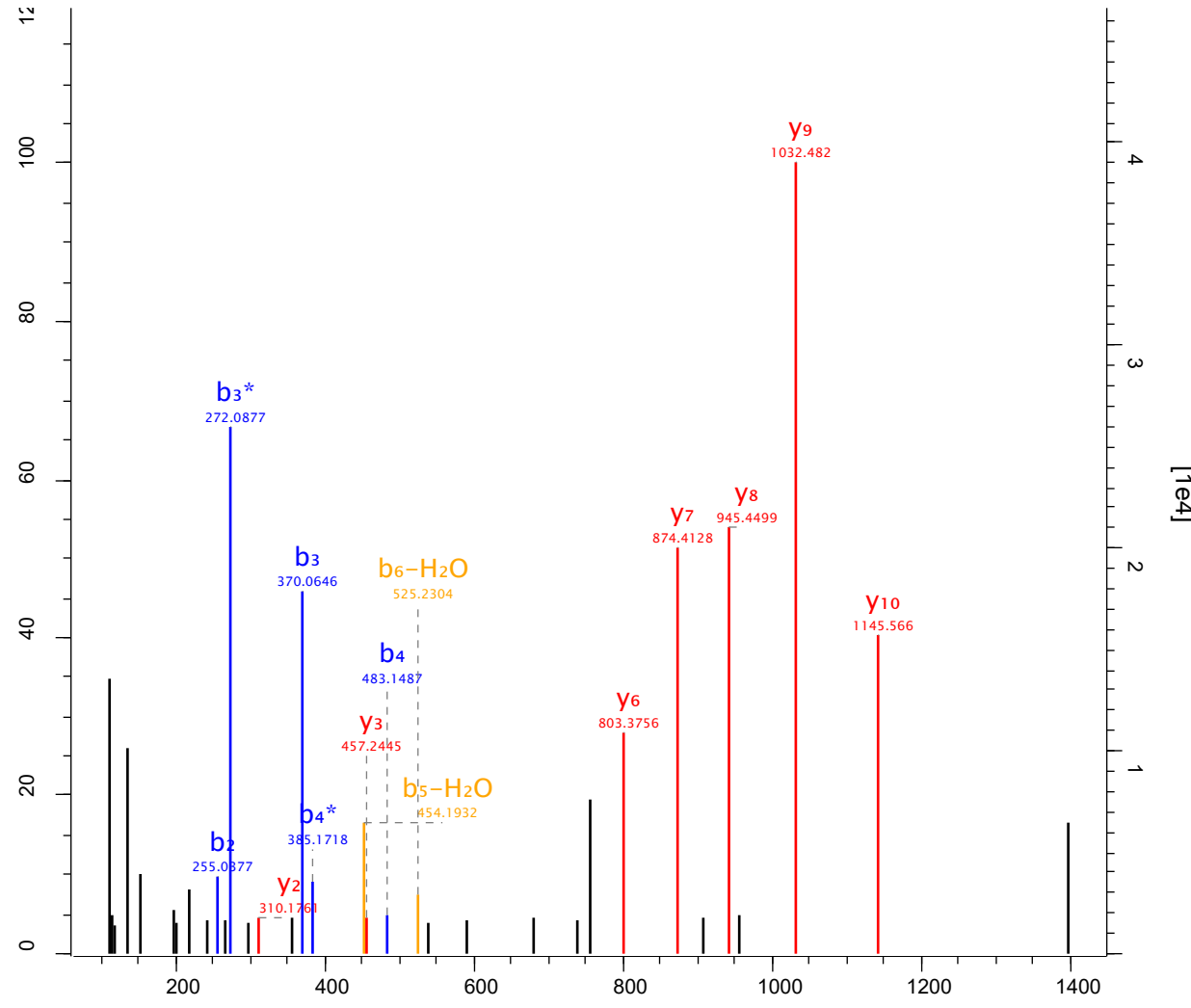


- S C G T ph S T S S N N F L V -
 b₂ b₃ b₄ b₁₀ b₁₁ y₂

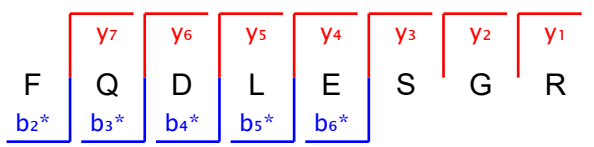
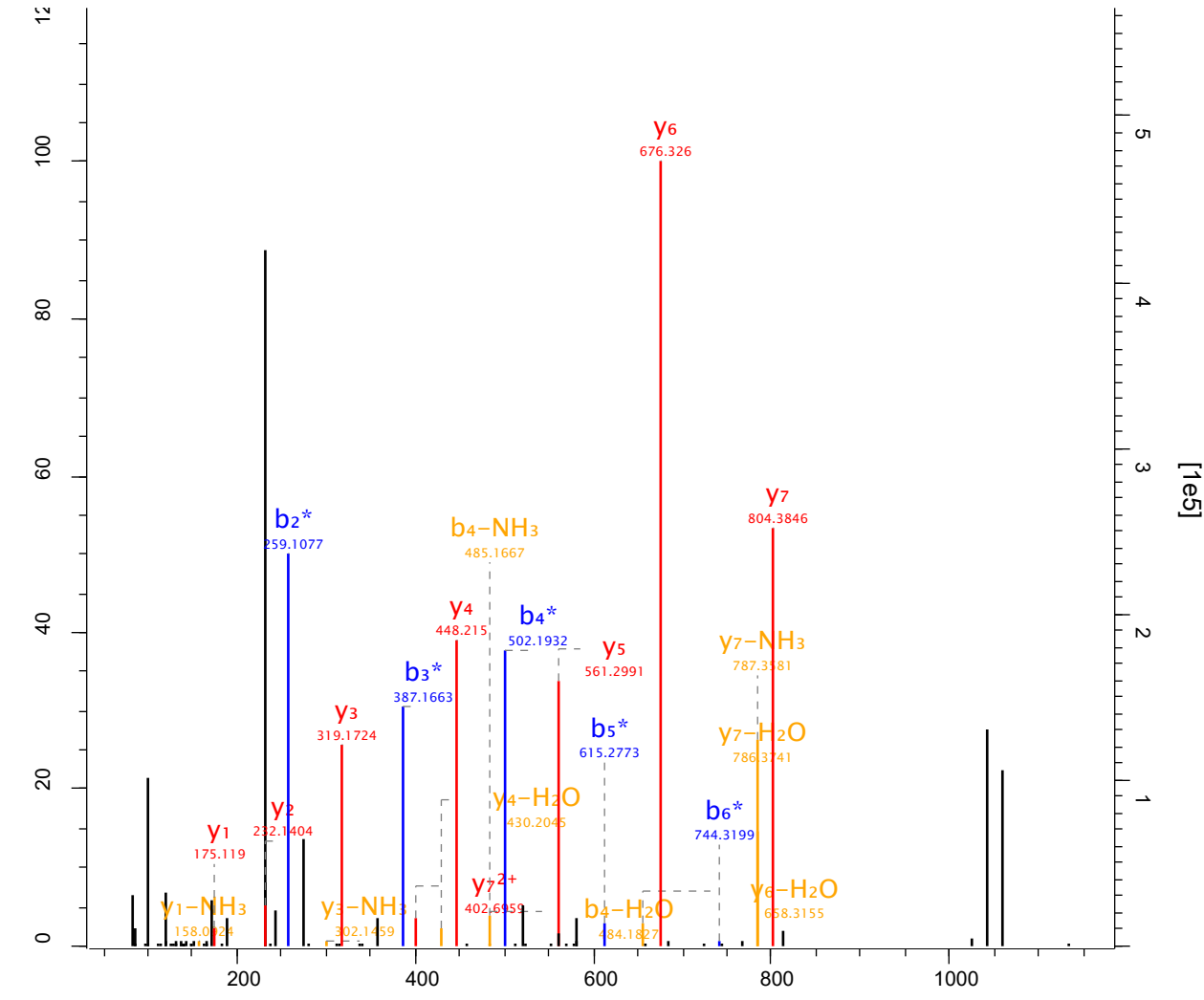
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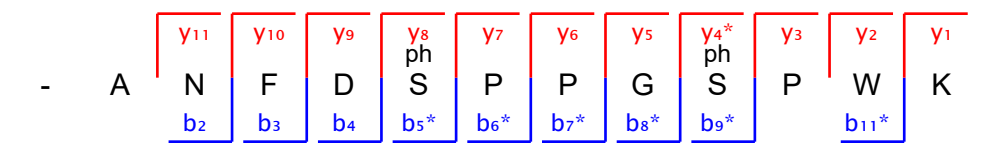
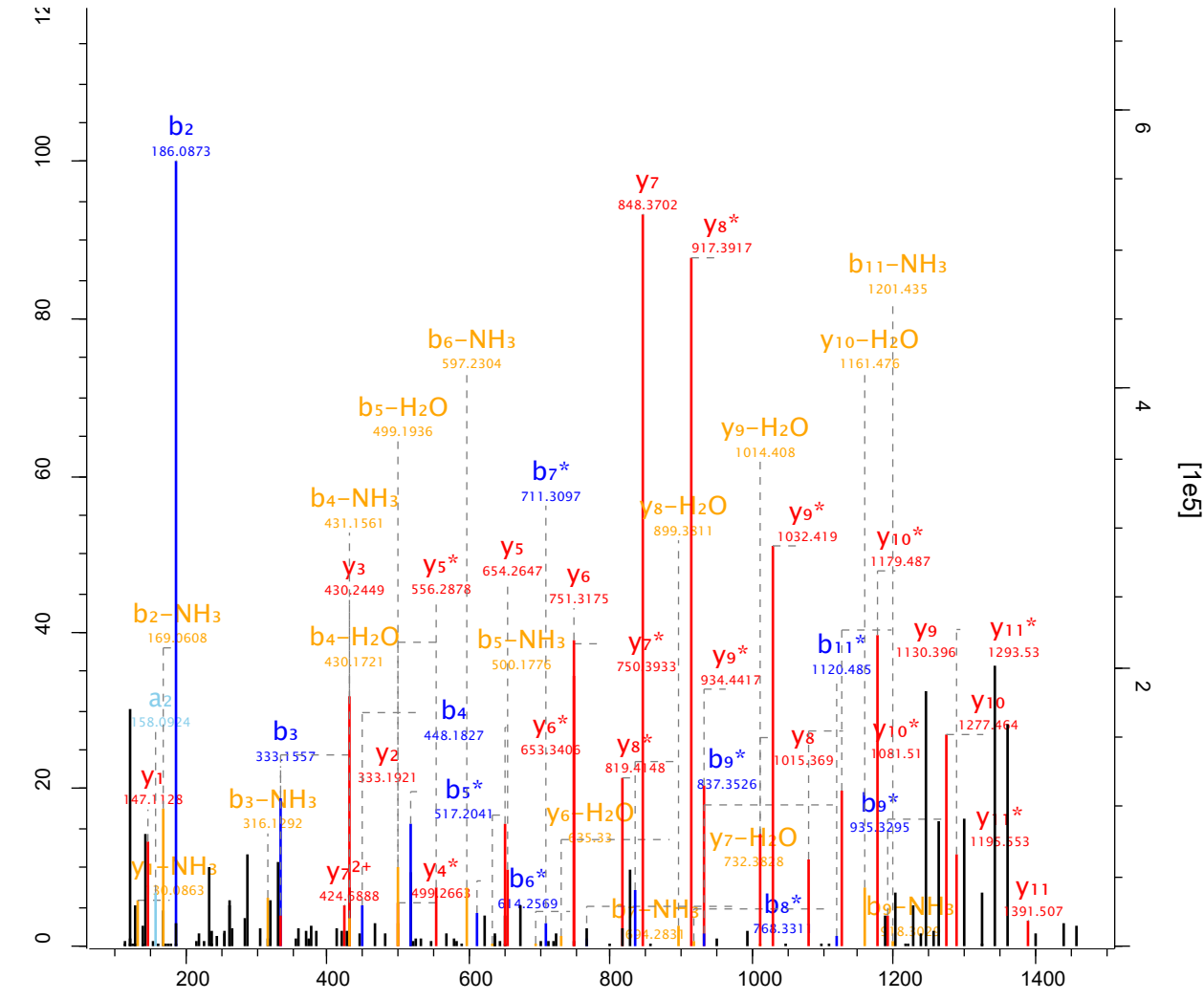


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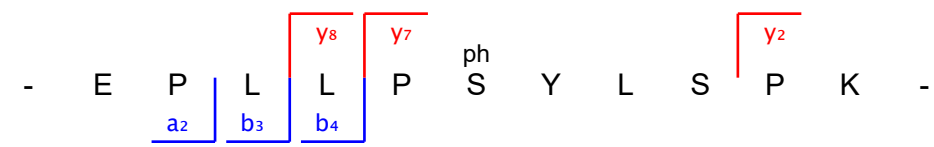
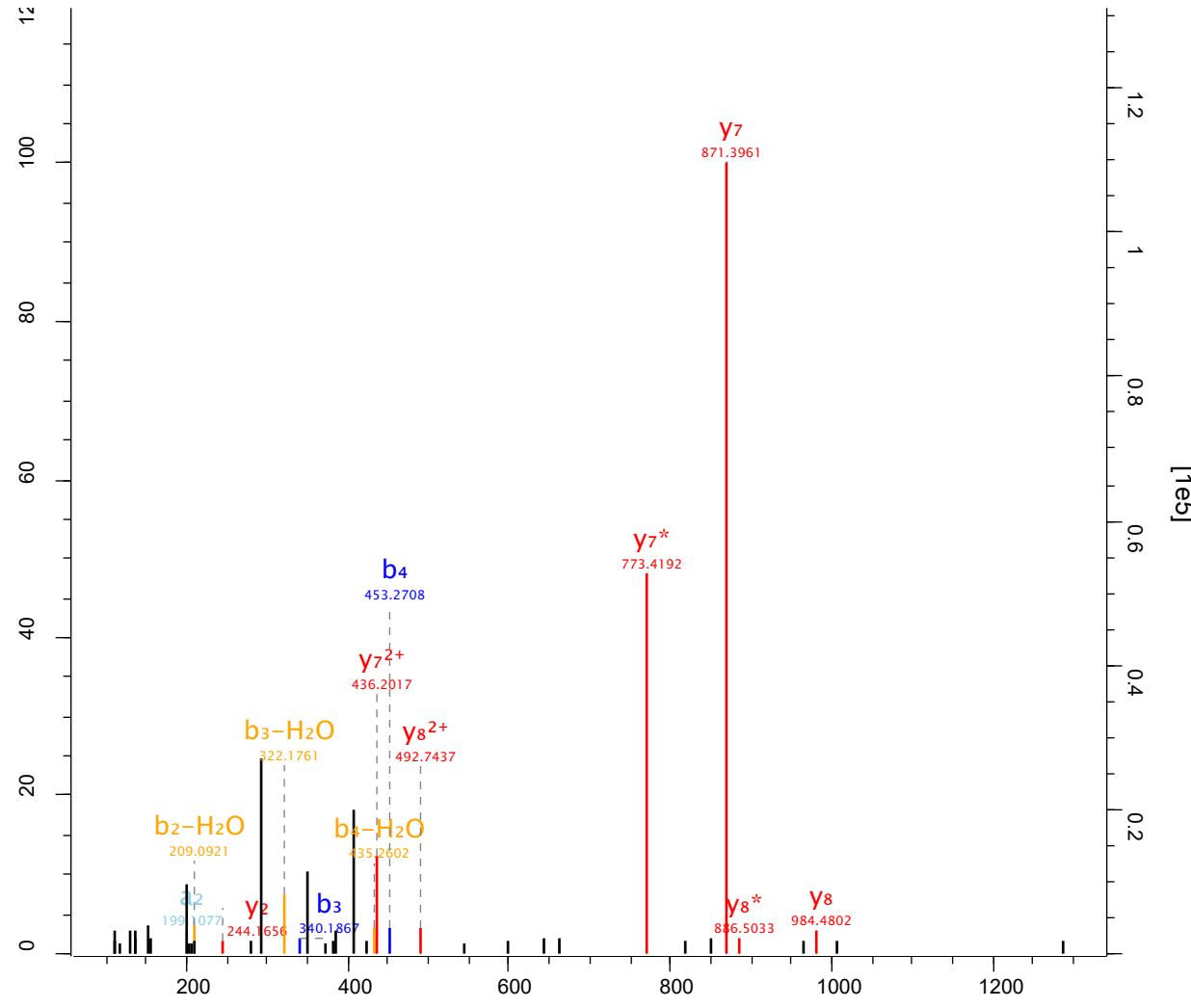


ac ph S

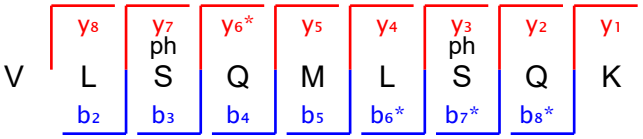
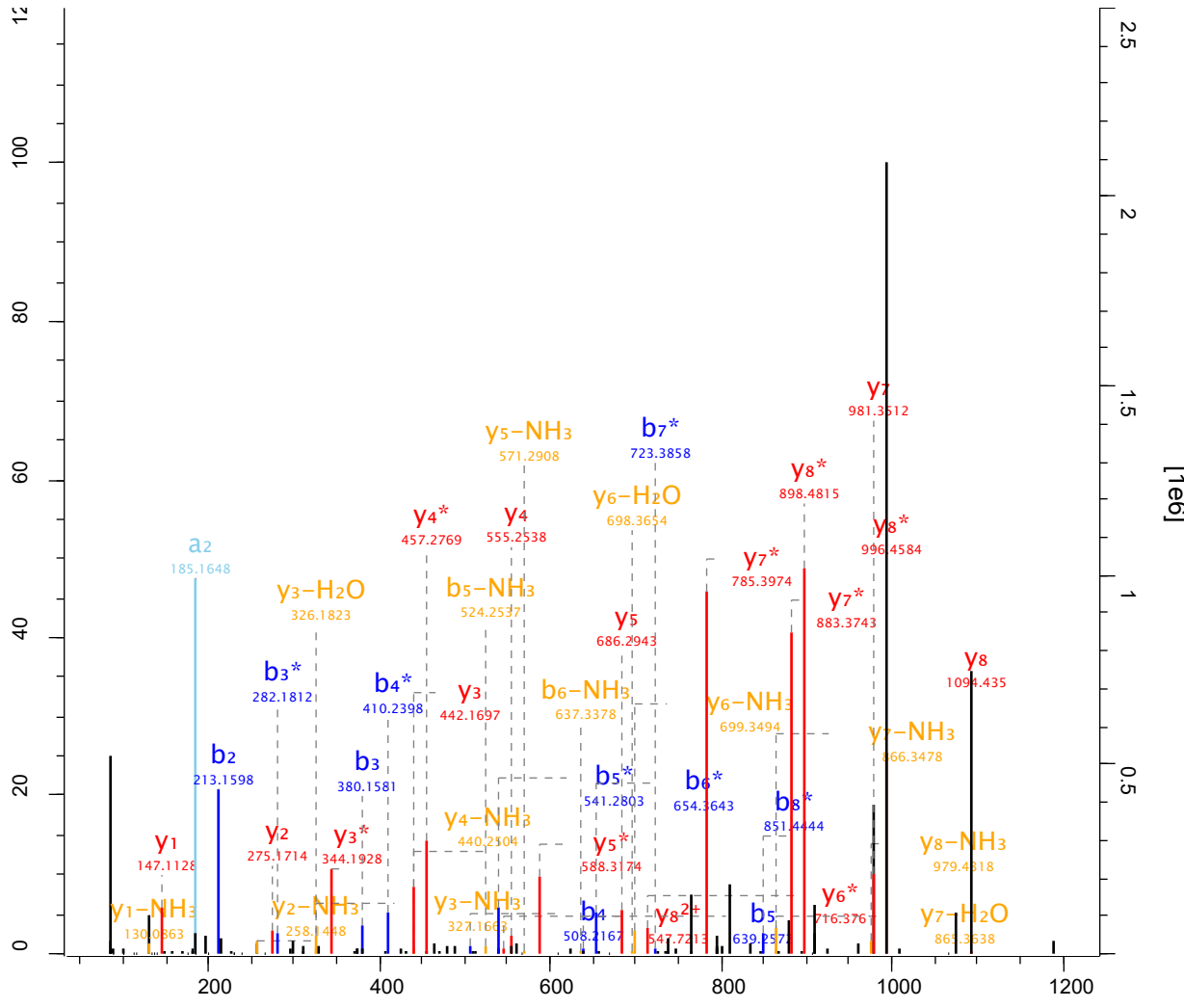
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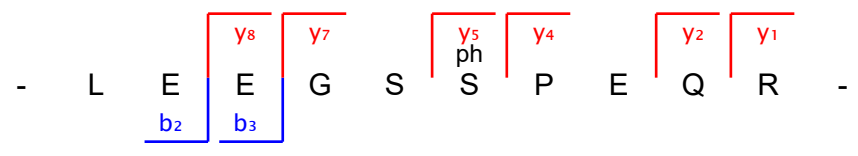
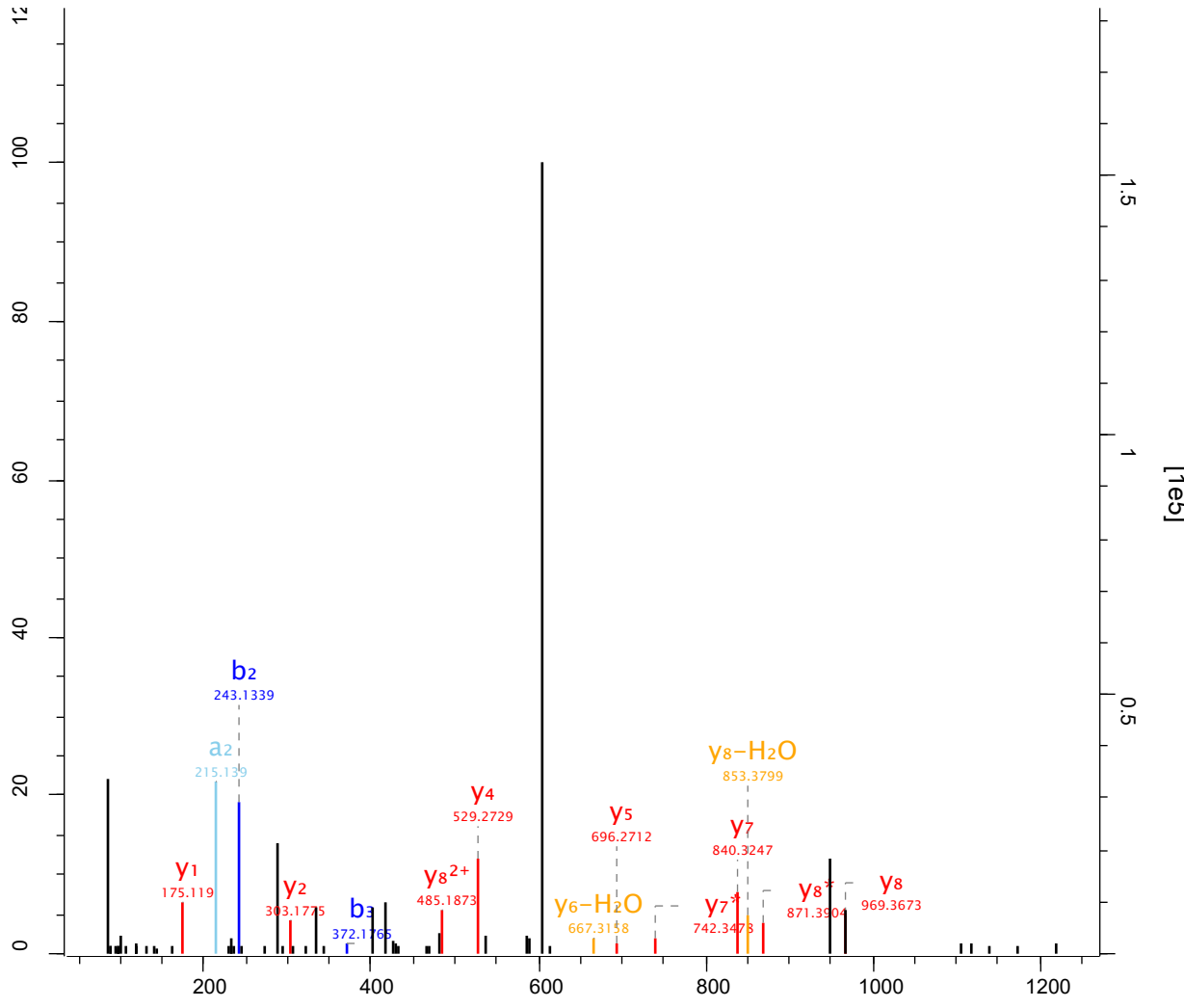
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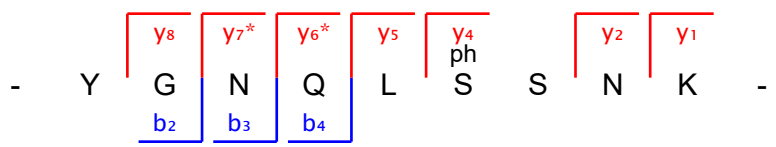
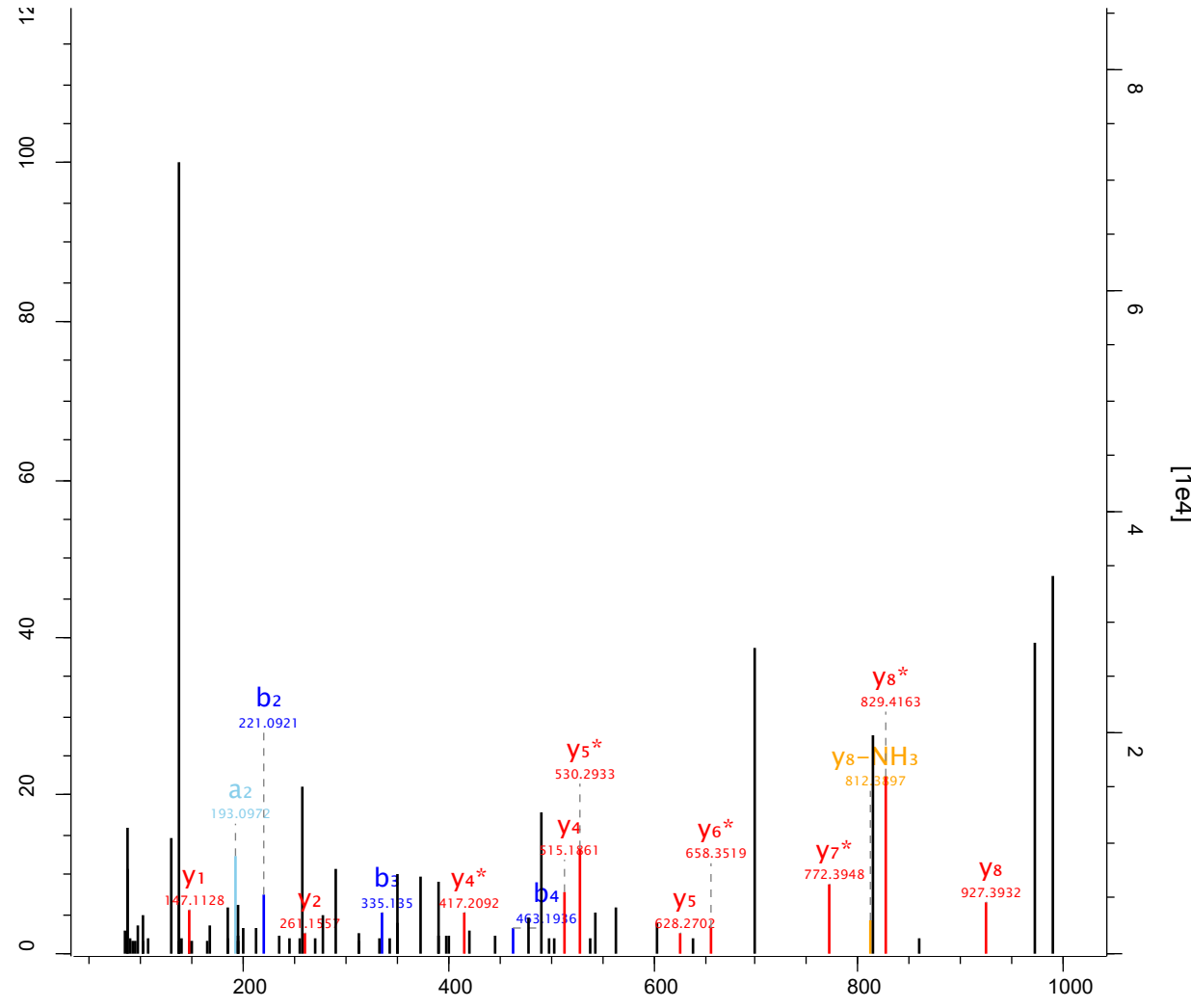
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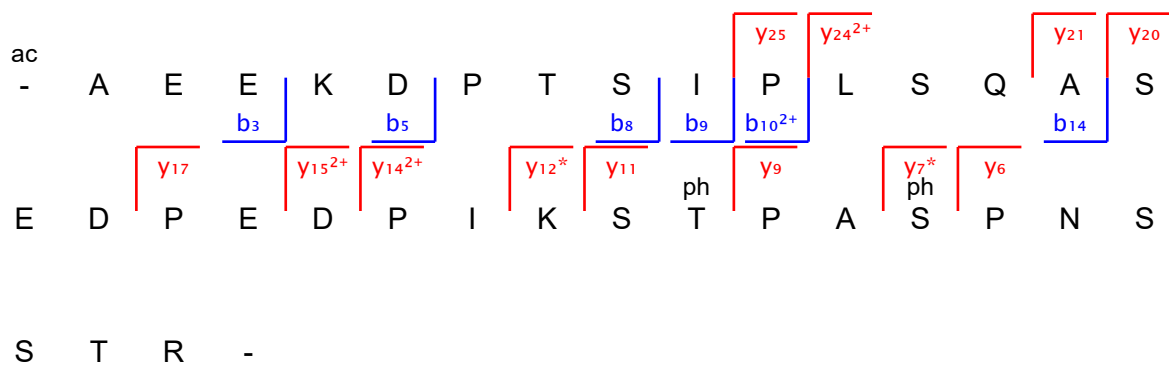
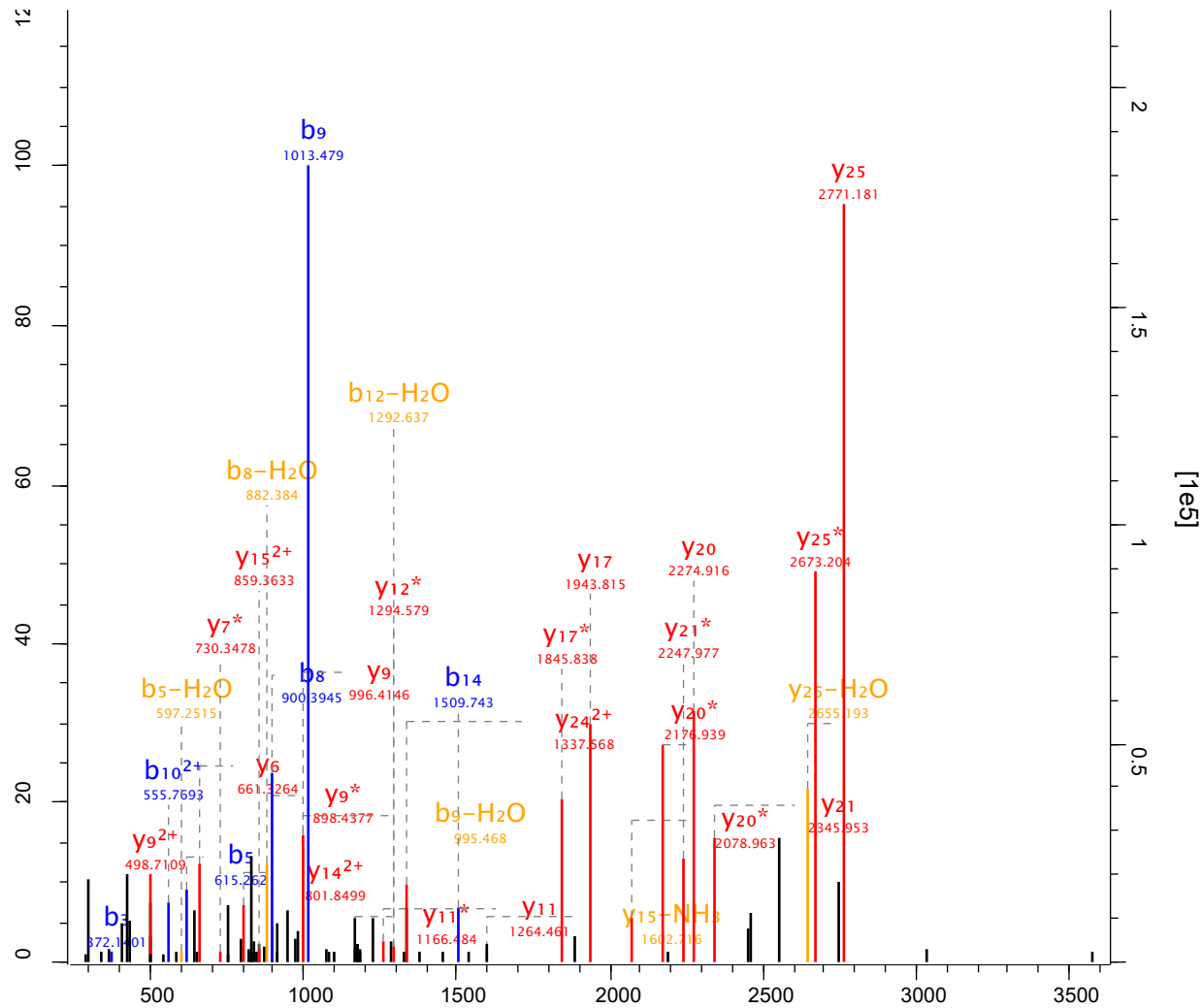
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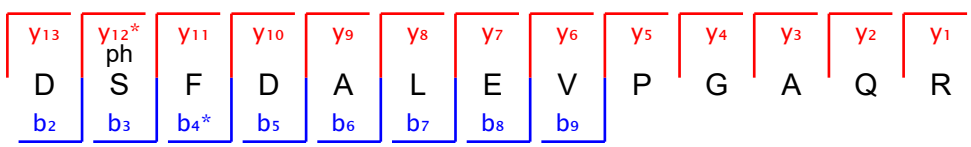
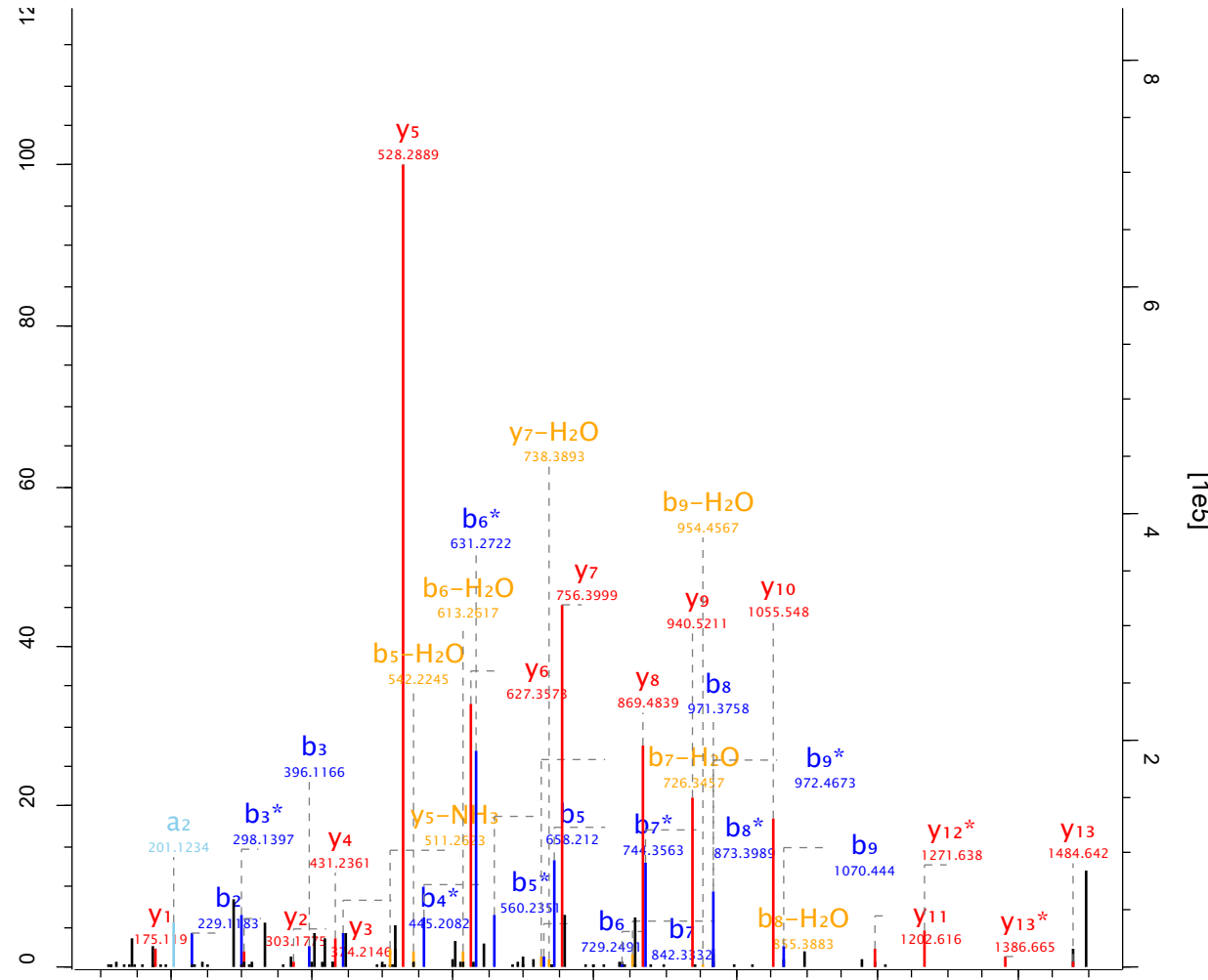
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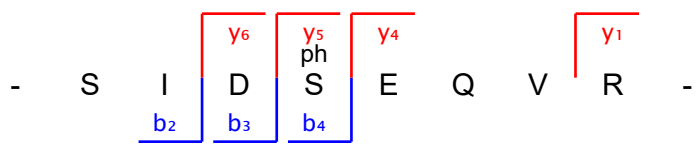
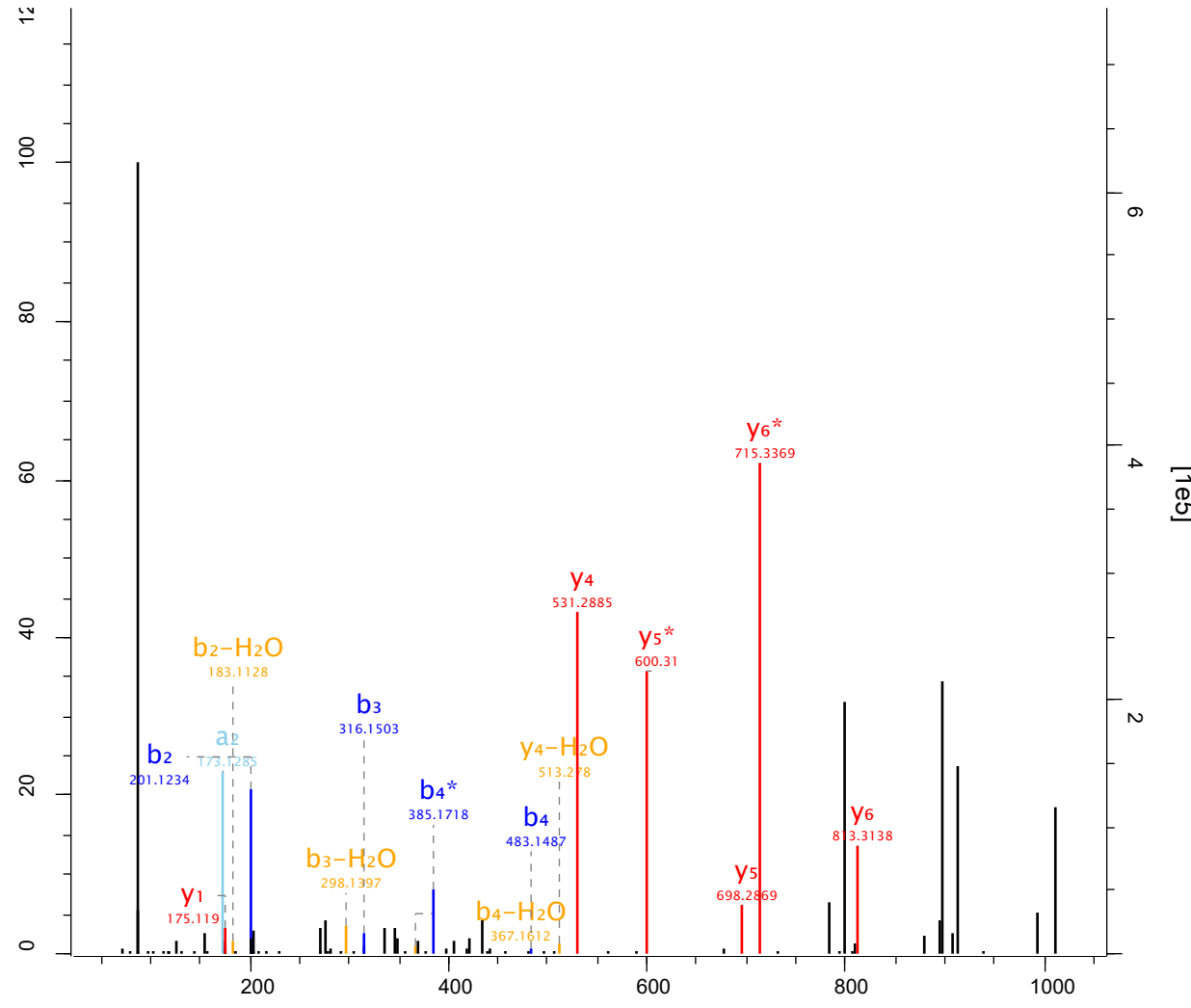
Raw file Scan Method Score m/z
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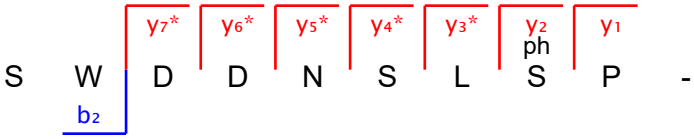
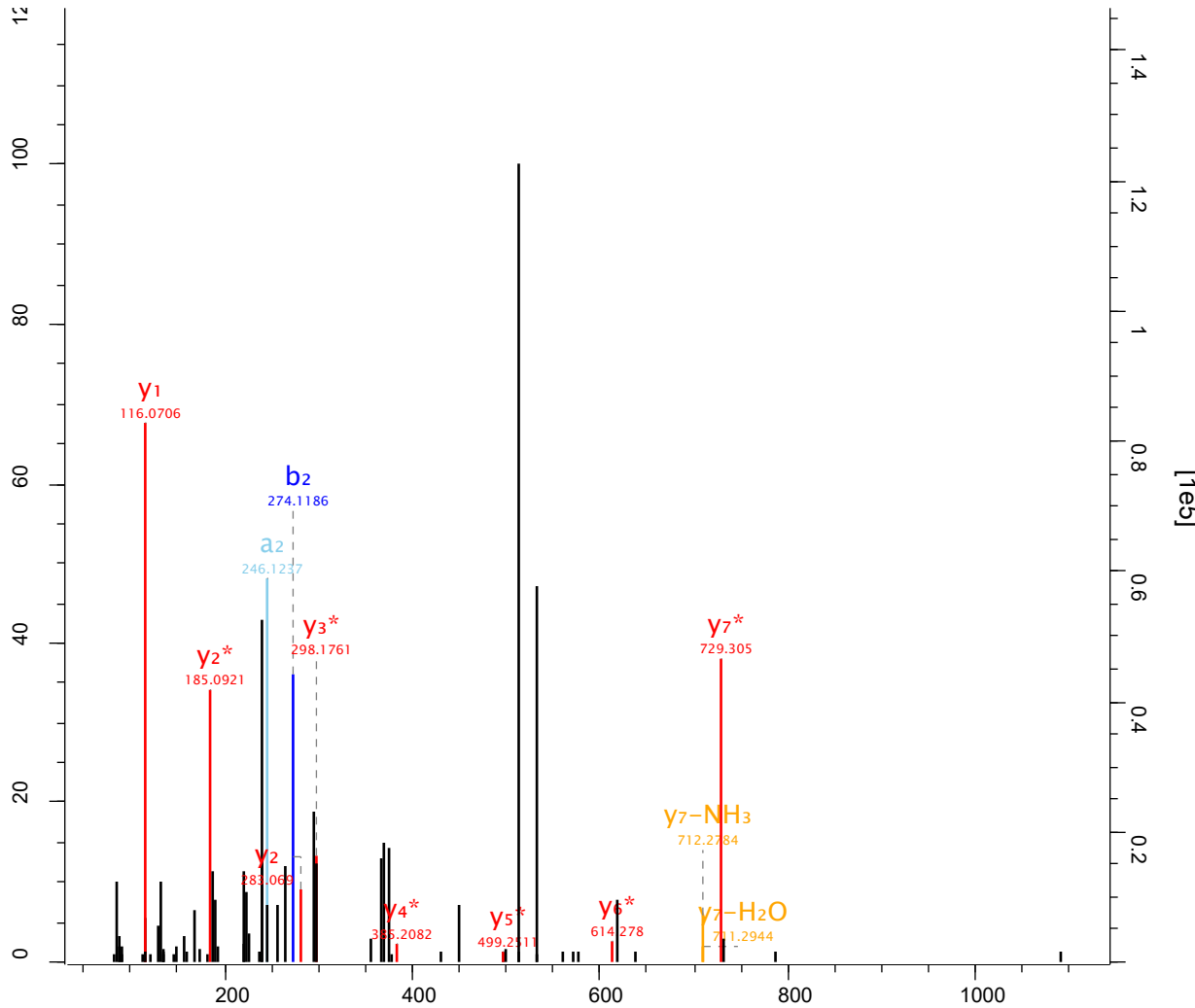
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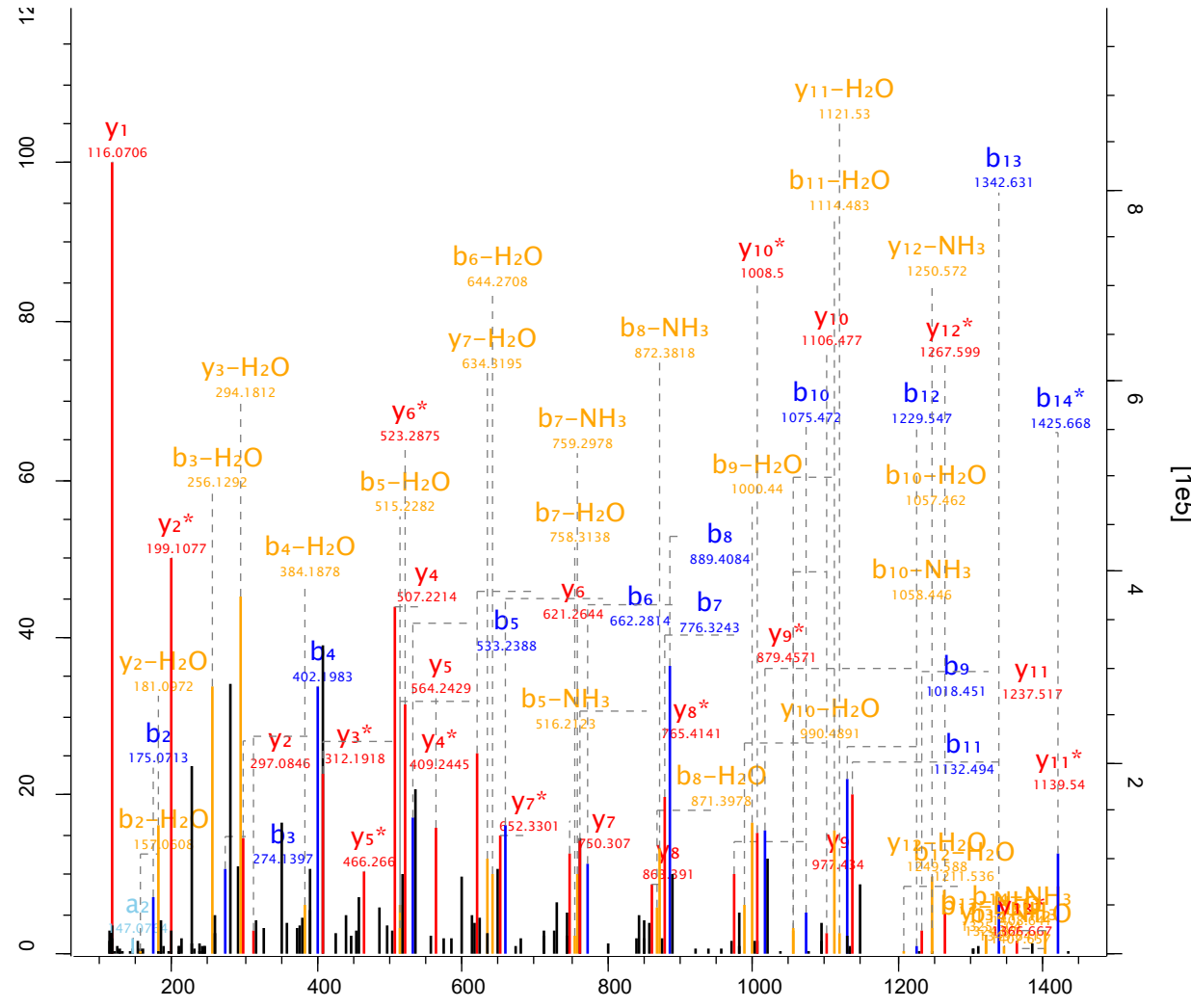
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Raw file Scan Method Score m/z
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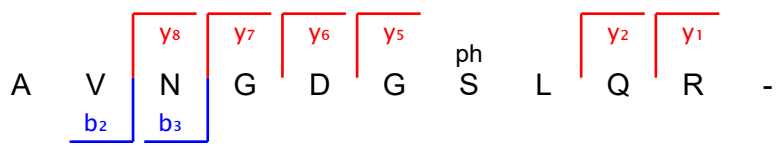
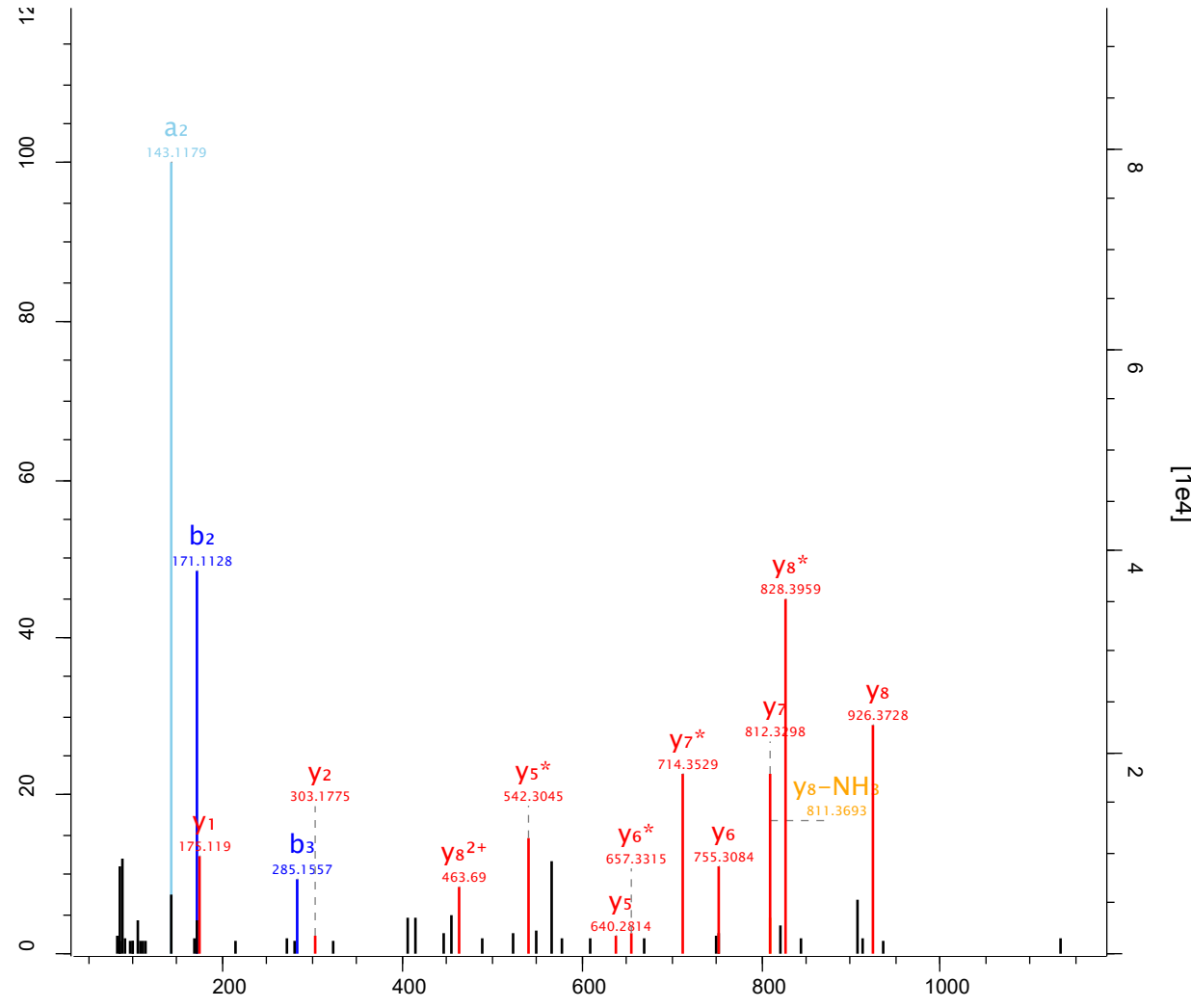


Raw file Scan Method Score m/z
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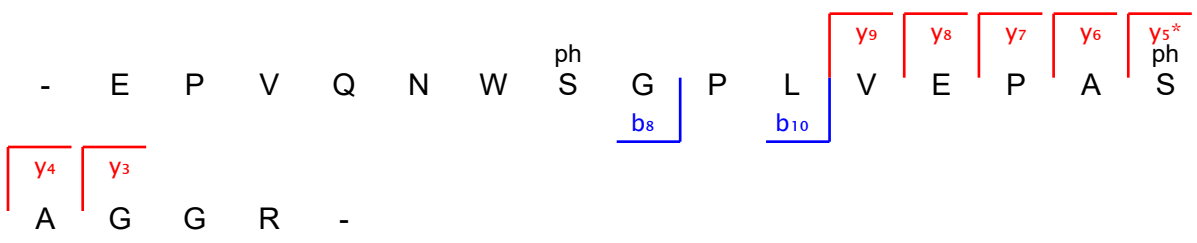
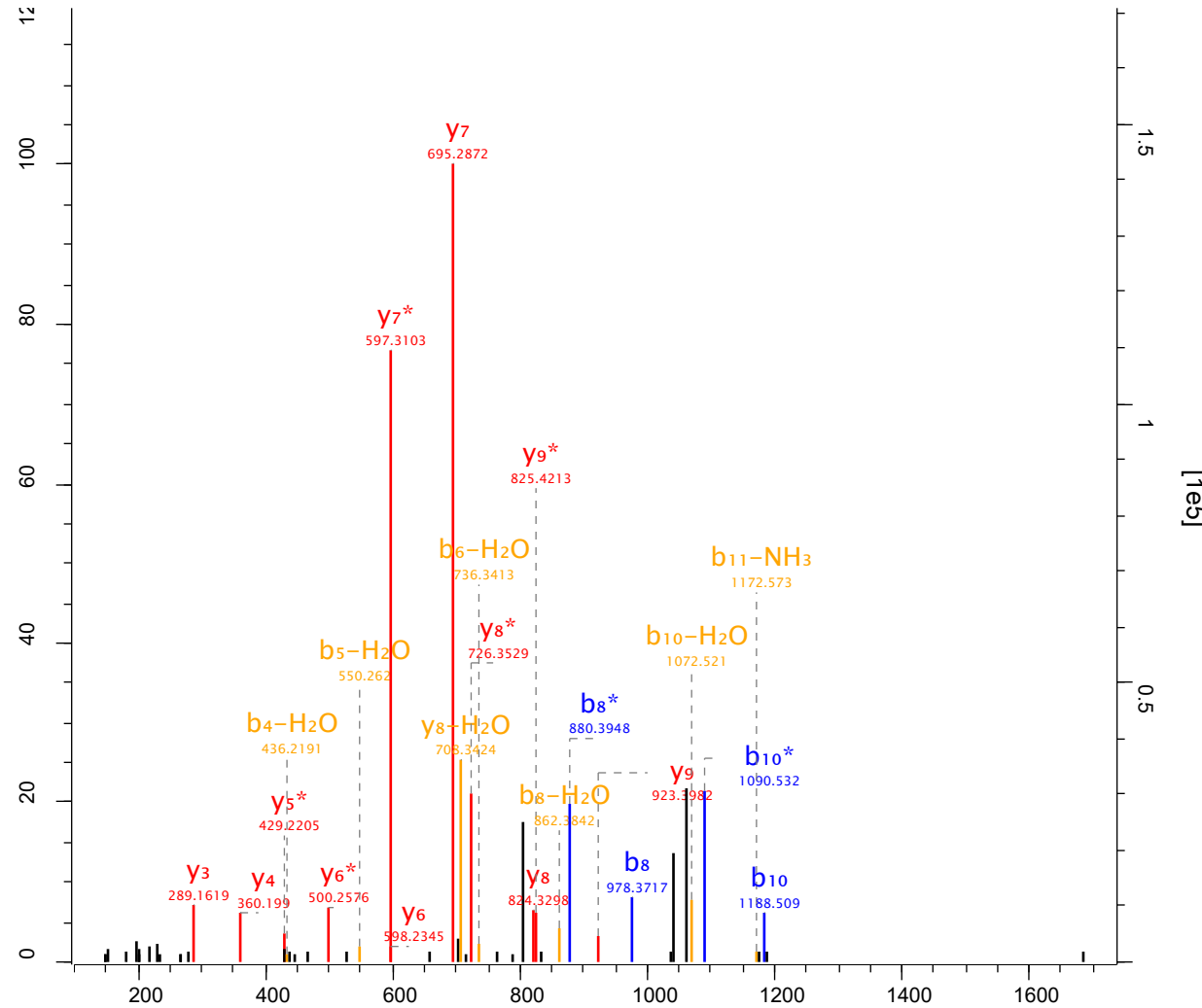


| | | | | | | | | | | | | | | |
|---|---|-------------------|-------------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|-------------------|----------------|
| S | S | V | Q | M | E | N | L | E | G | G | P | L | ph T | P |
| | | b ₃ | b ₄ | b ₅ | b ₆ | b ₇ | b ₈ | b ₉ | b ₁₀ | b ₁₁ | b ₁₂ | b ₁₃ | b ₁₄ * | |
| | | y ₁₃ * | y ₁₂ * | y ₁₁ | y ₁₀ | y ₉ | y ₈ | y ₇ | y ₆ | y ₅ | y ₄ | y ₃ * | y ₂ | y ₁ |

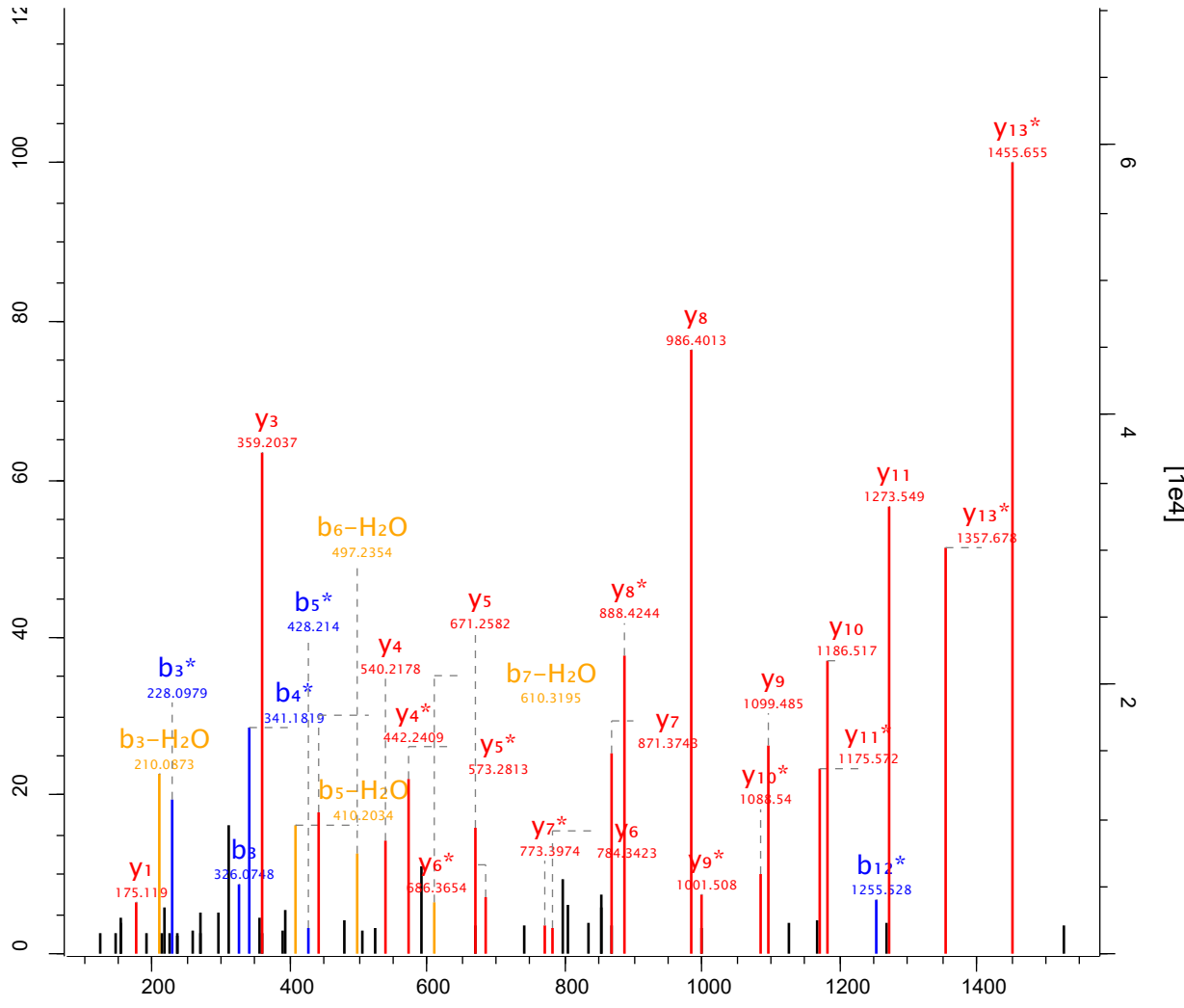
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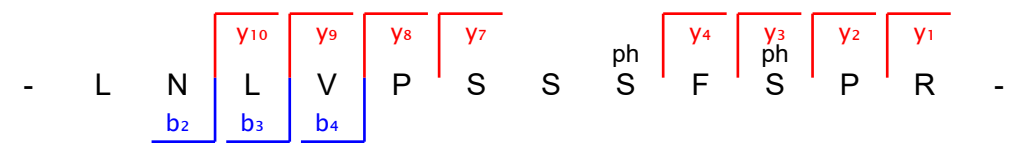
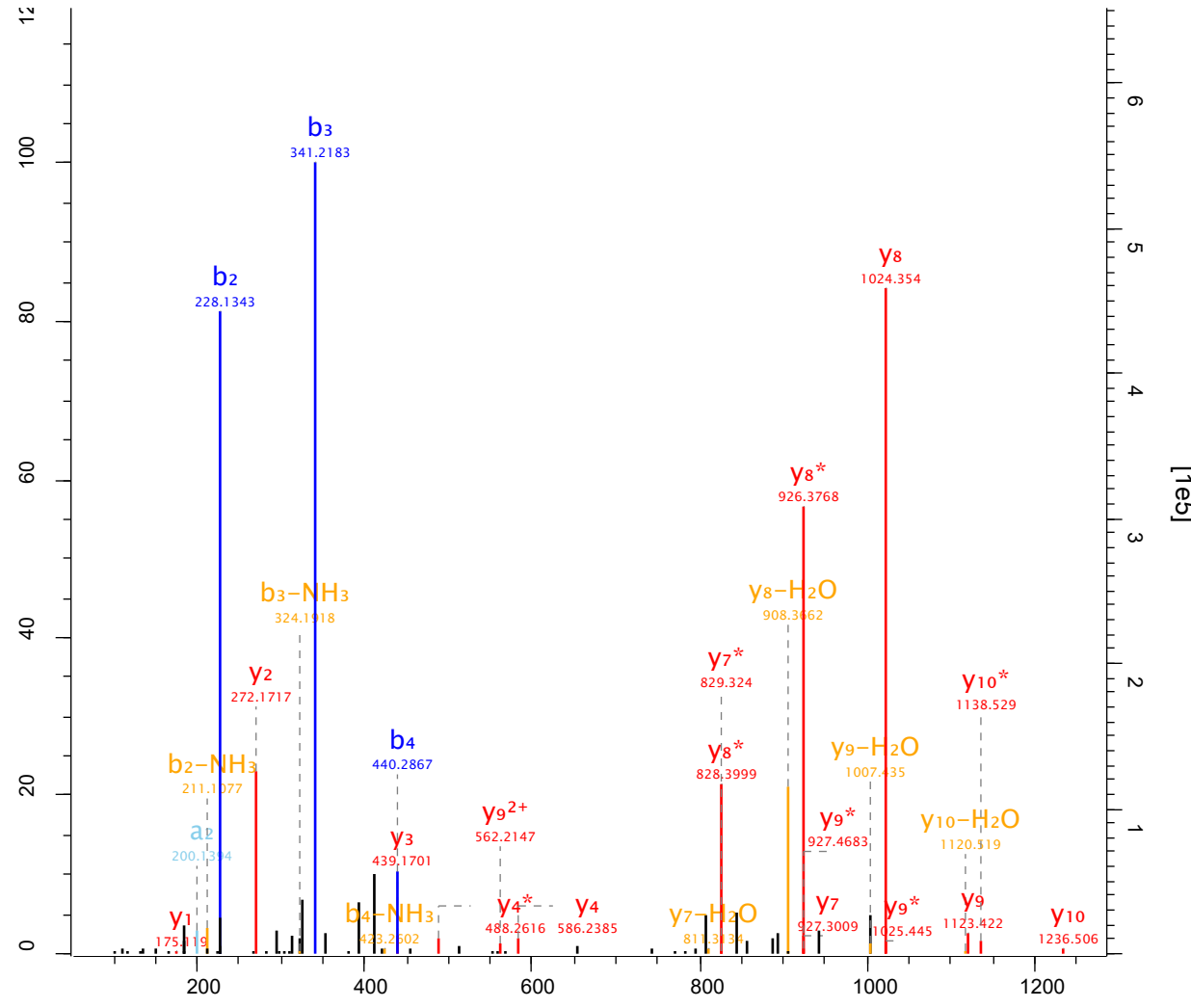


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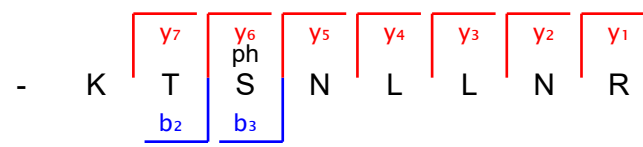
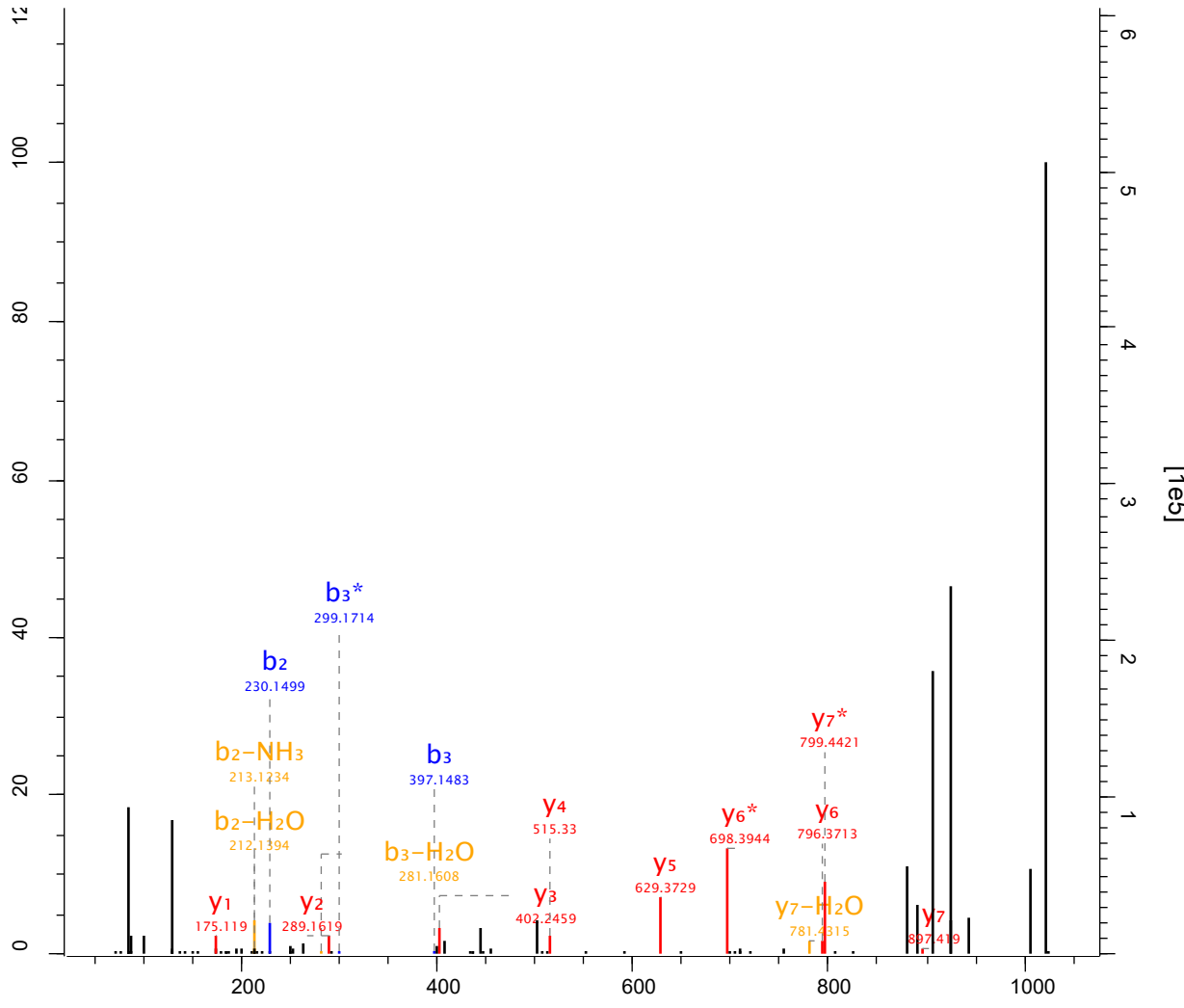


- A S y13* ph y11 y10 y9 y8 y7 y6 y5 y4 ph y3 y1
 - S L b3 b4* b5* b12* P S R

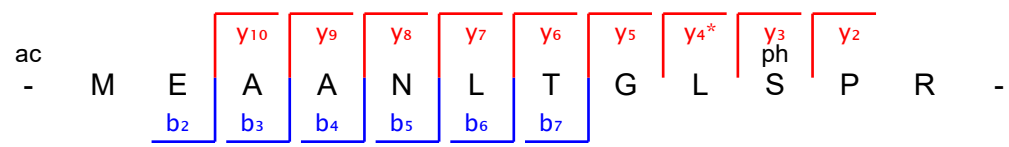
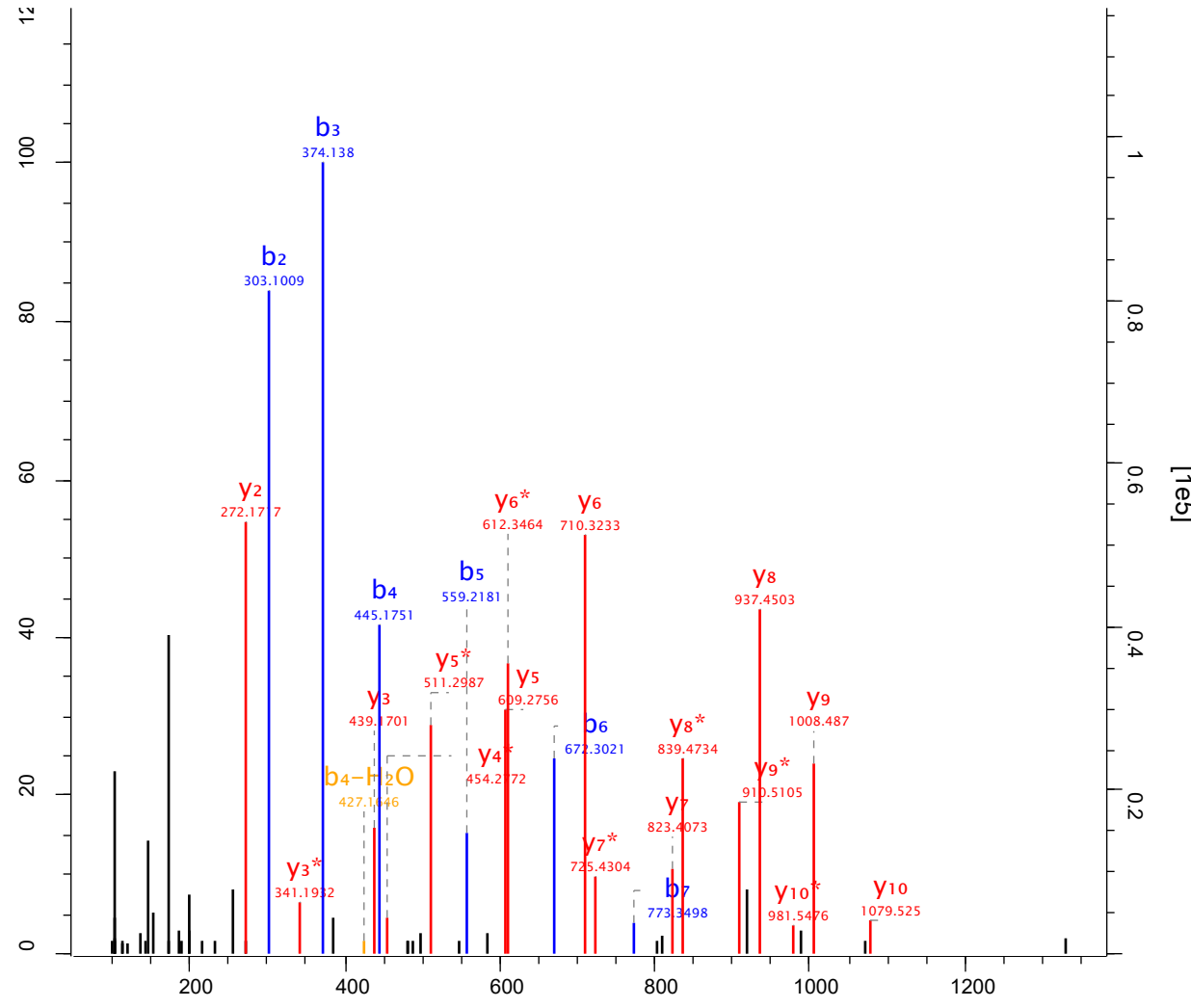
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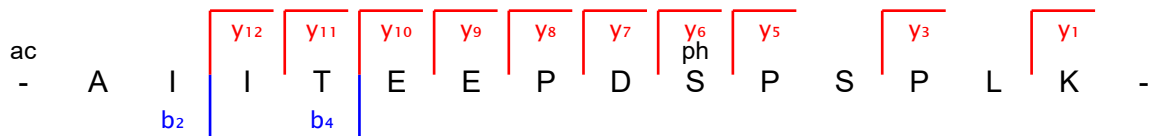
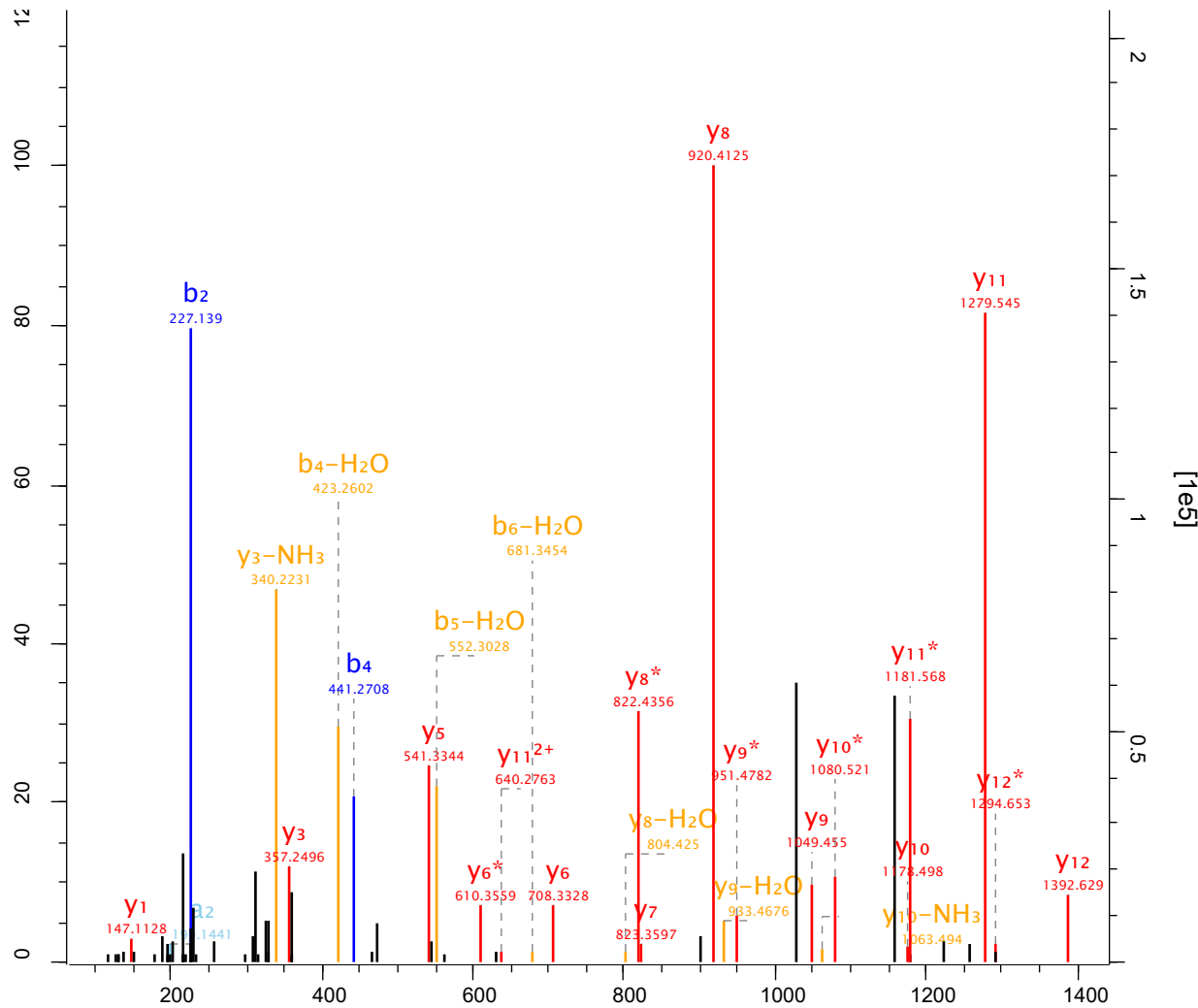
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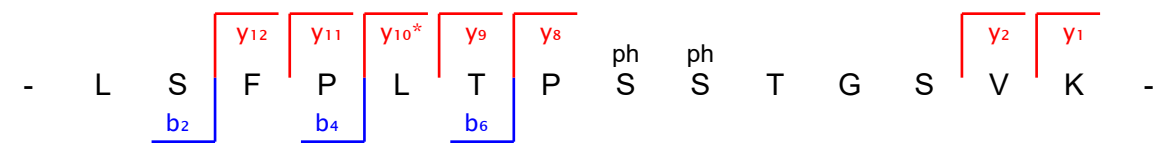
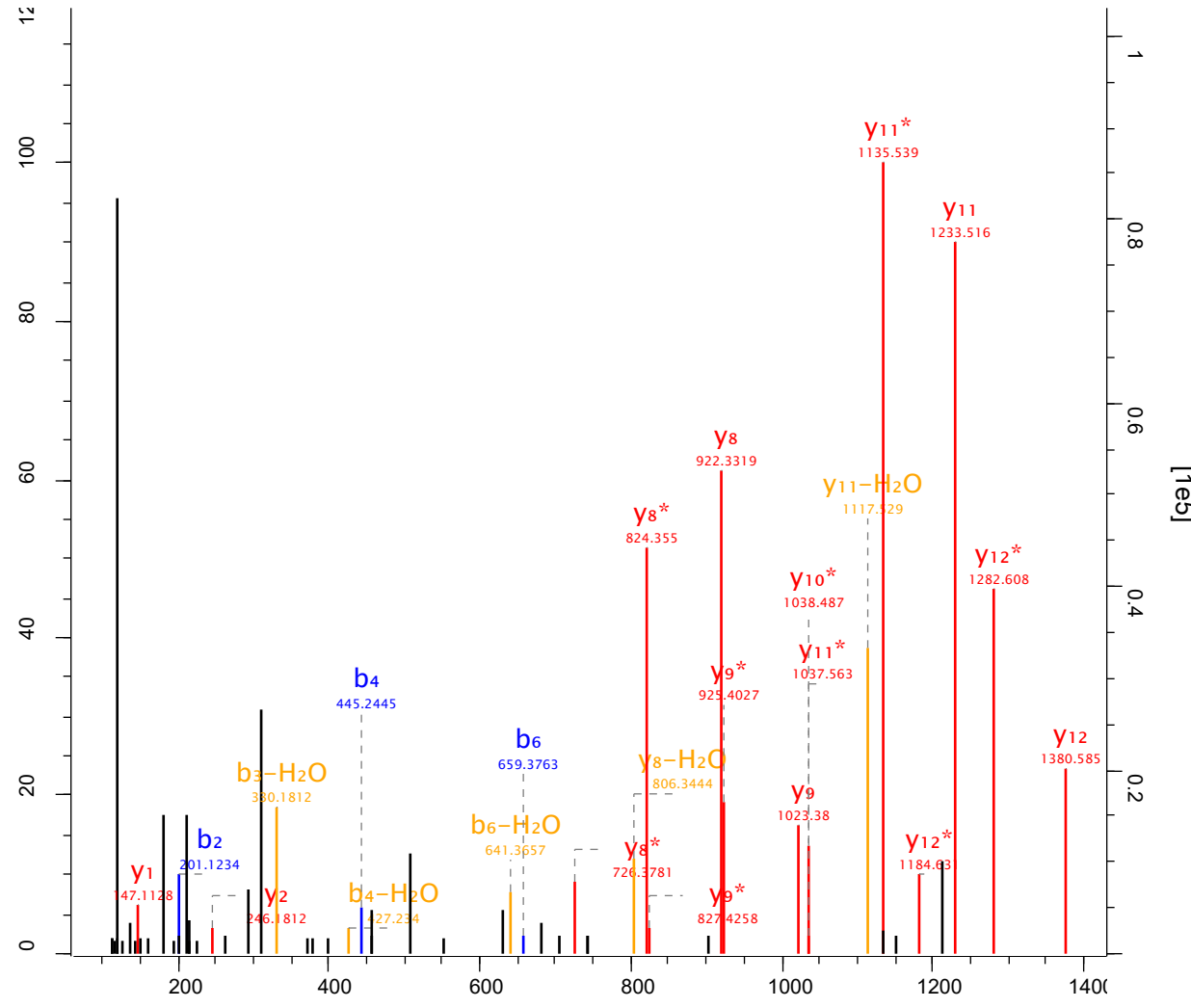
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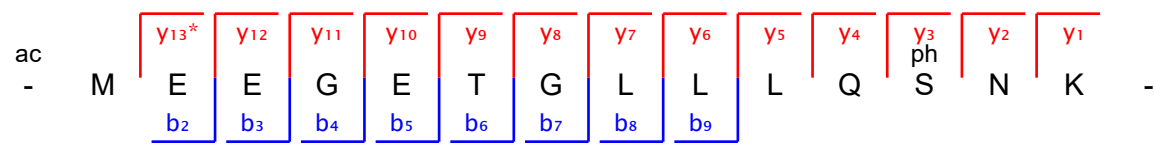
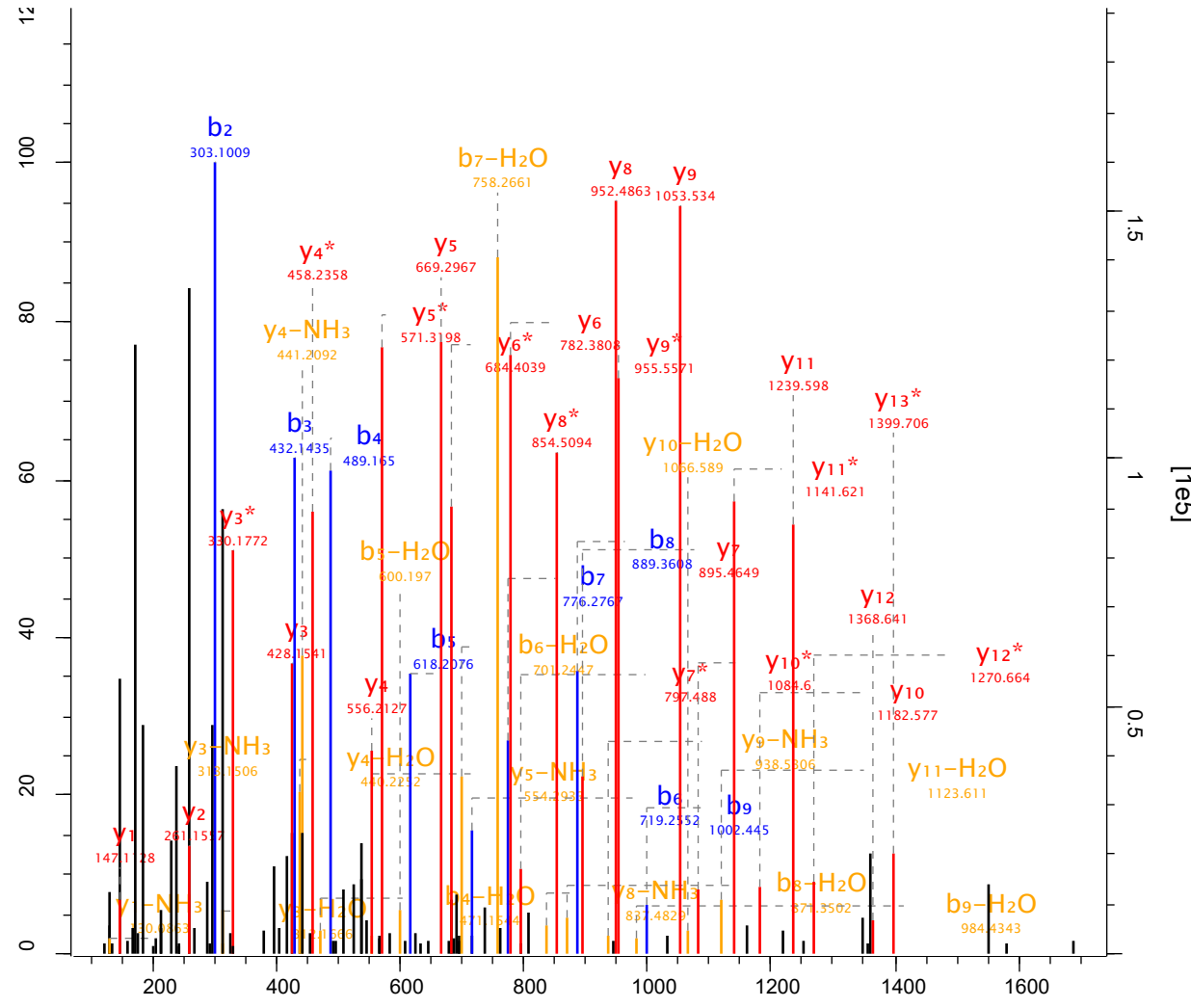
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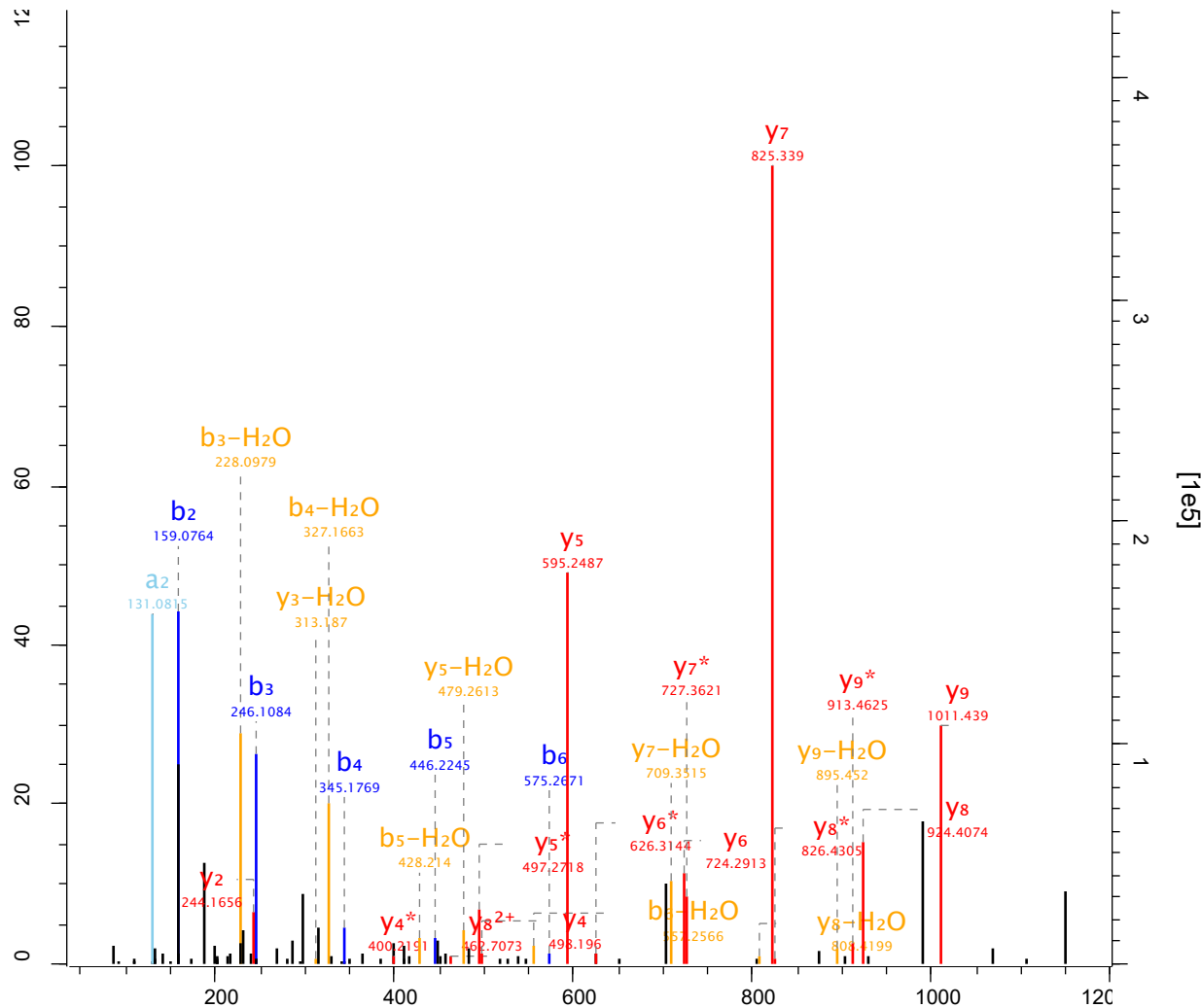
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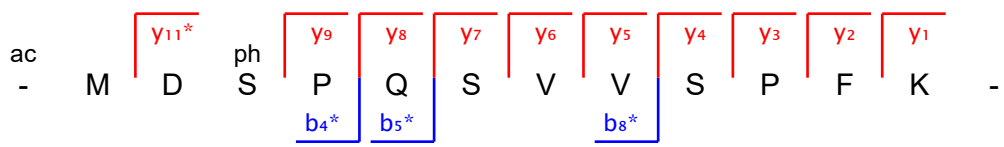
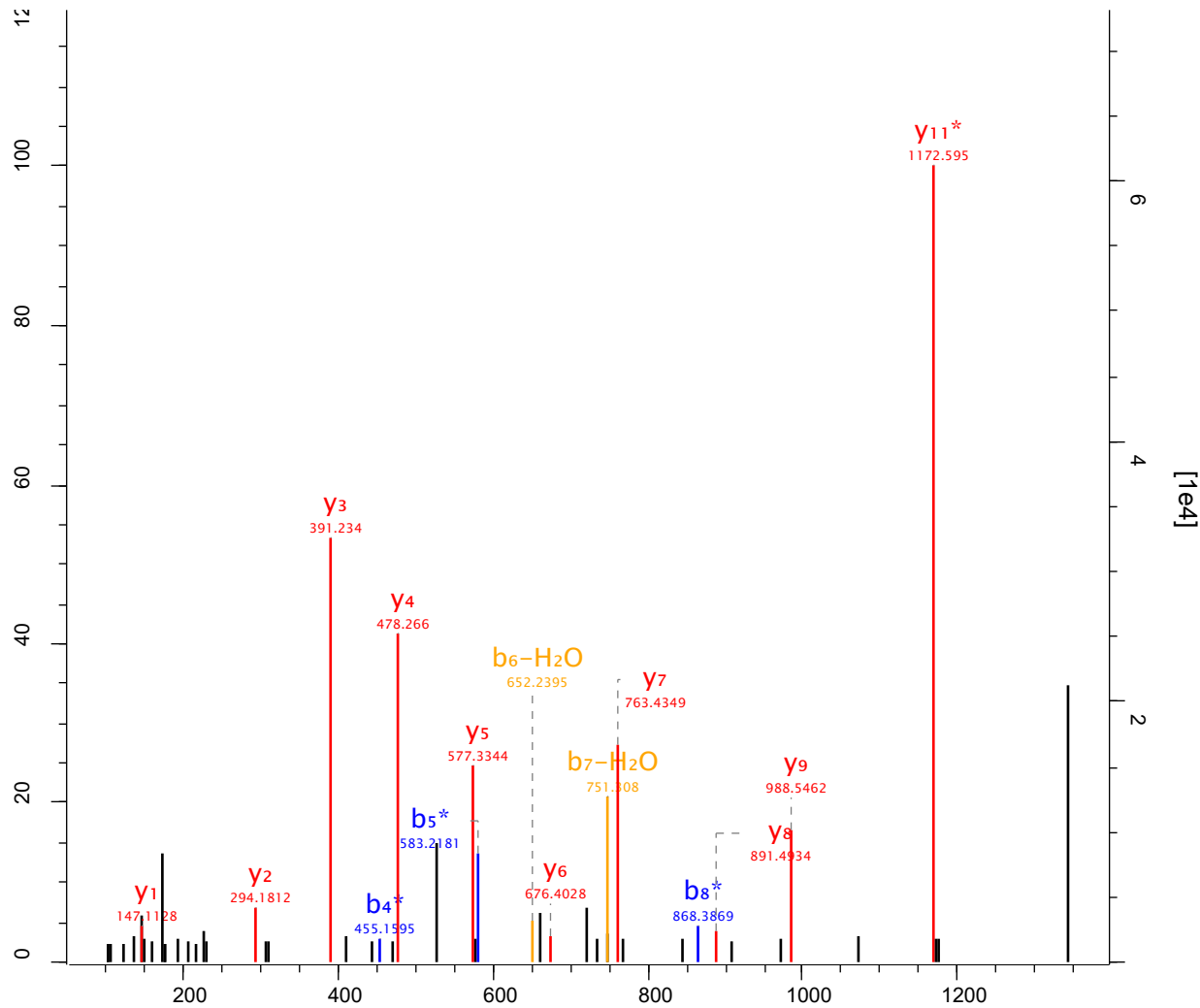
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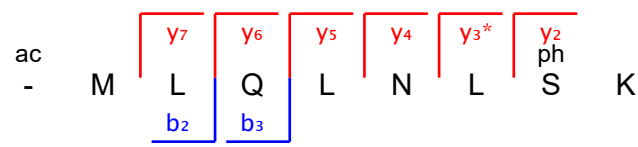
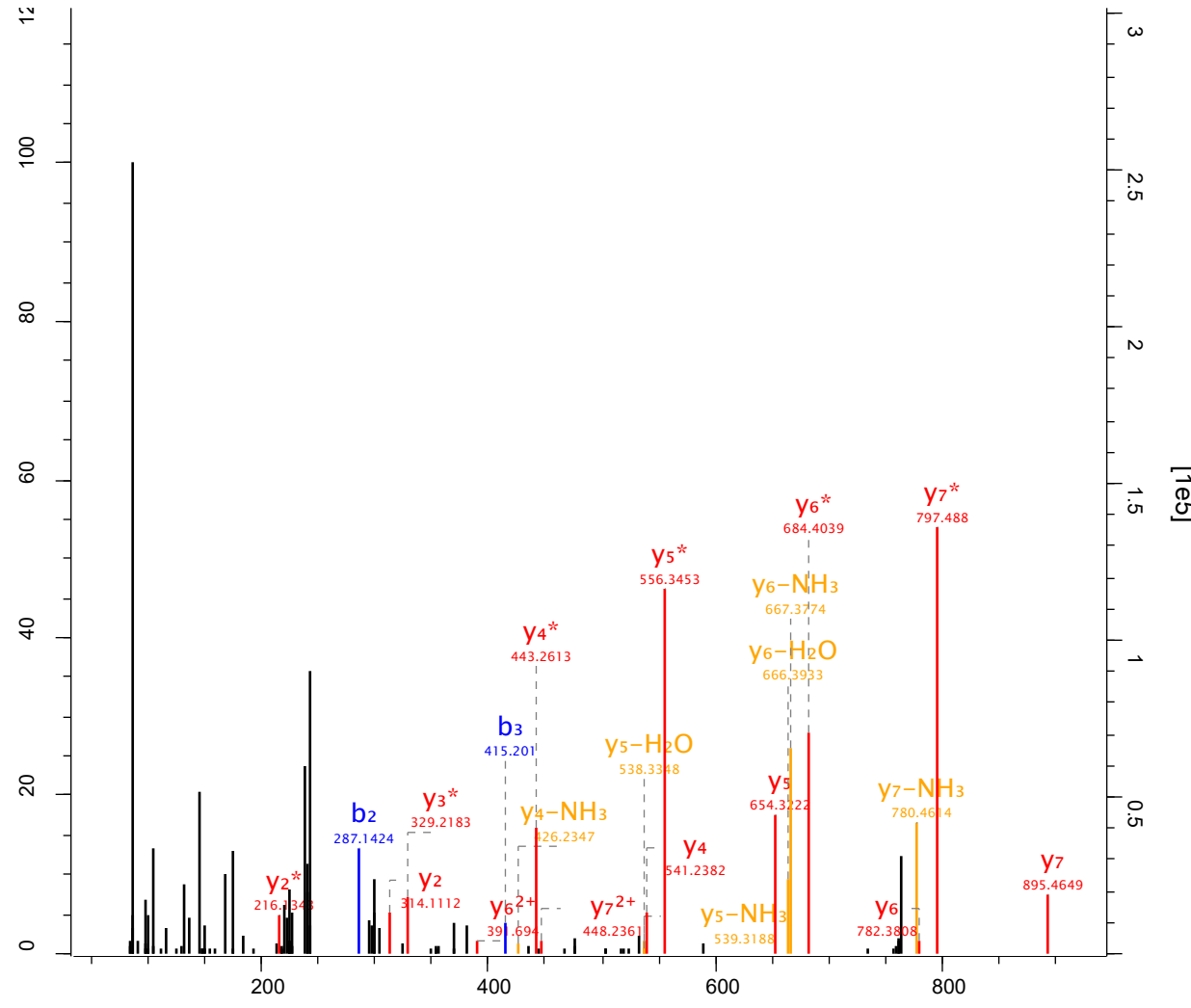
- S A S V T E P S S P K -

b₂
b₃
b₄
b₅
b₆
y₉
y₈
y₇
y₆
y₅
y₄ph
y₂

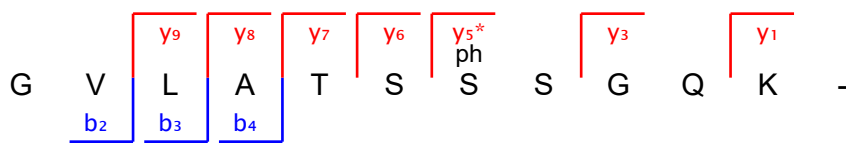
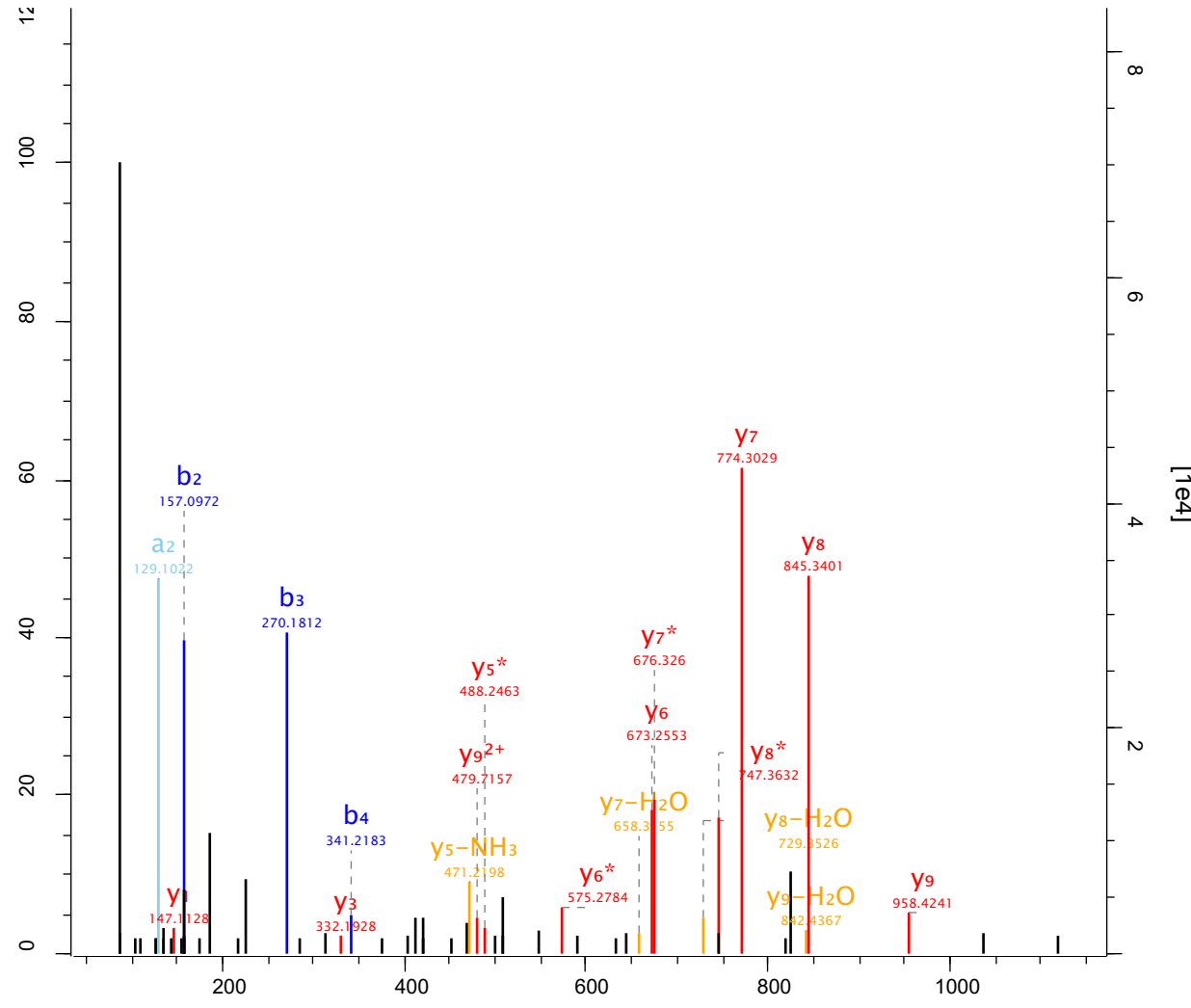
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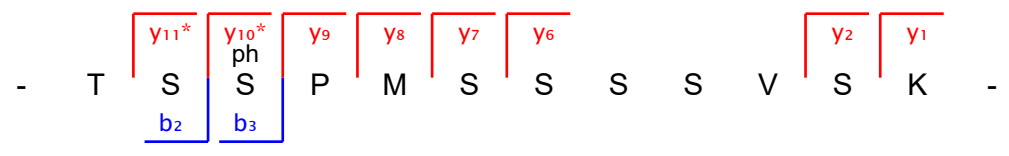
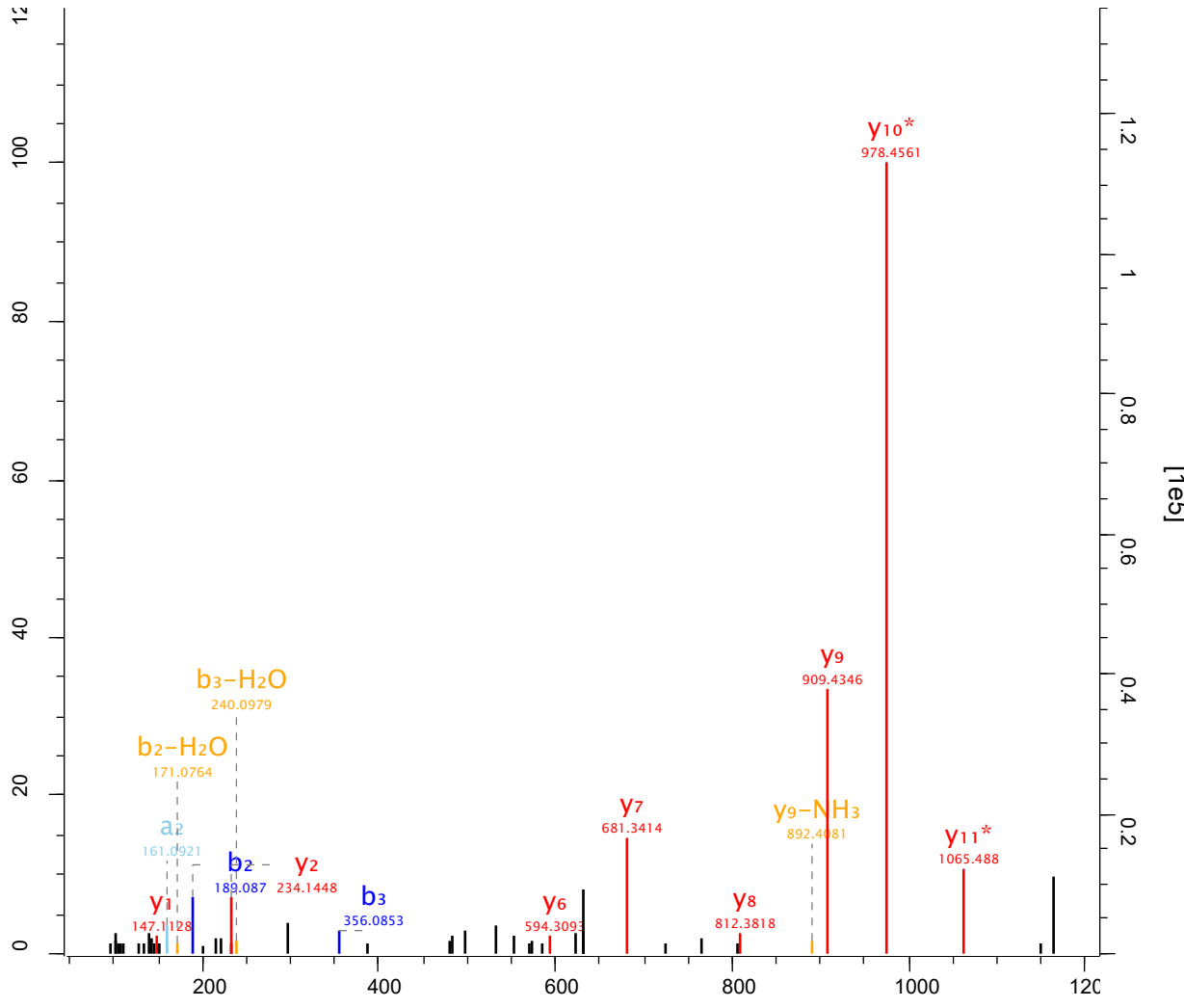
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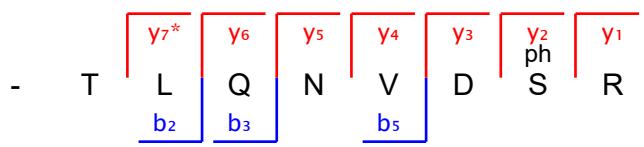
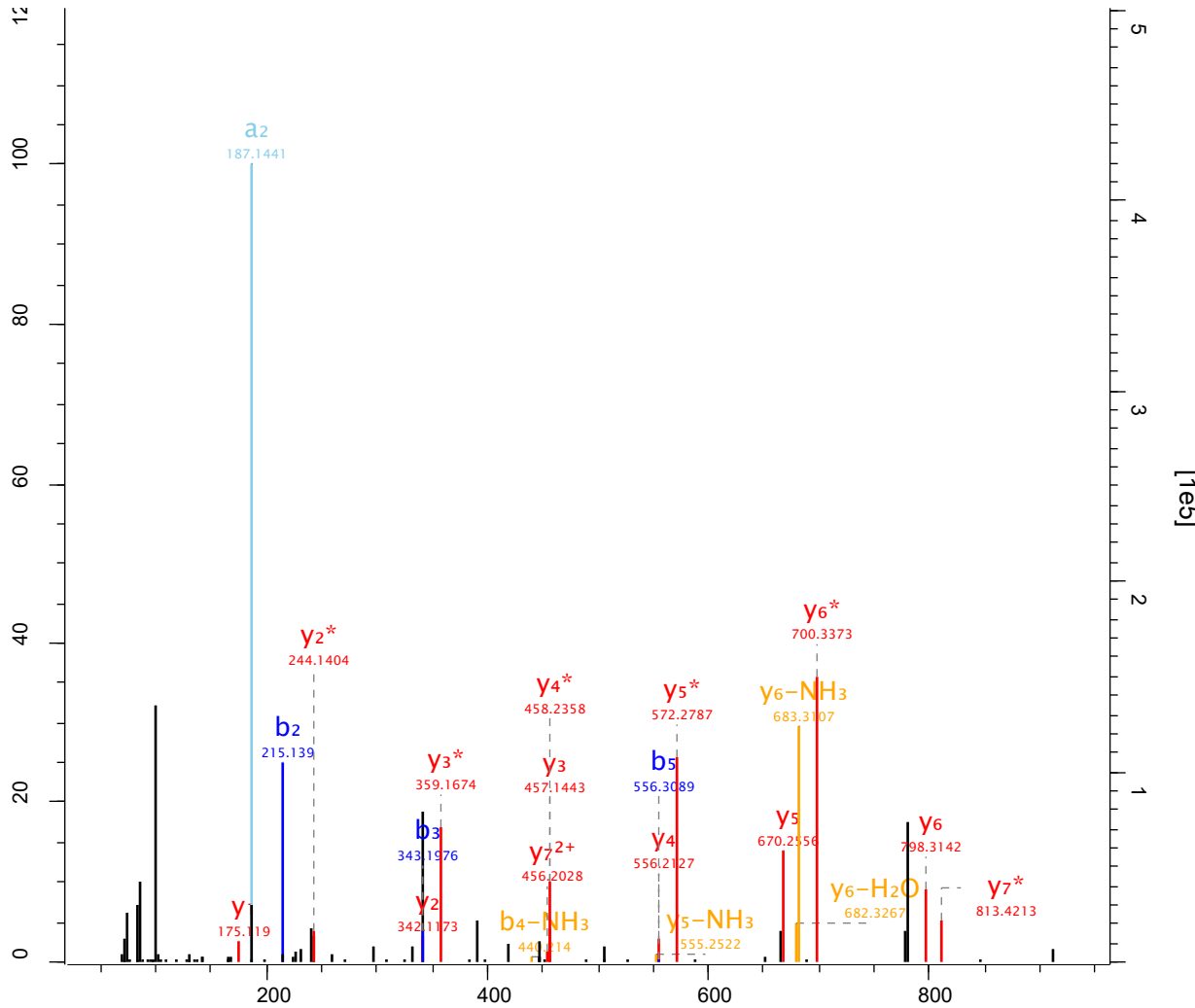
Raw file Scan Method Score m/z
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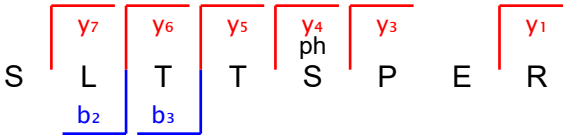
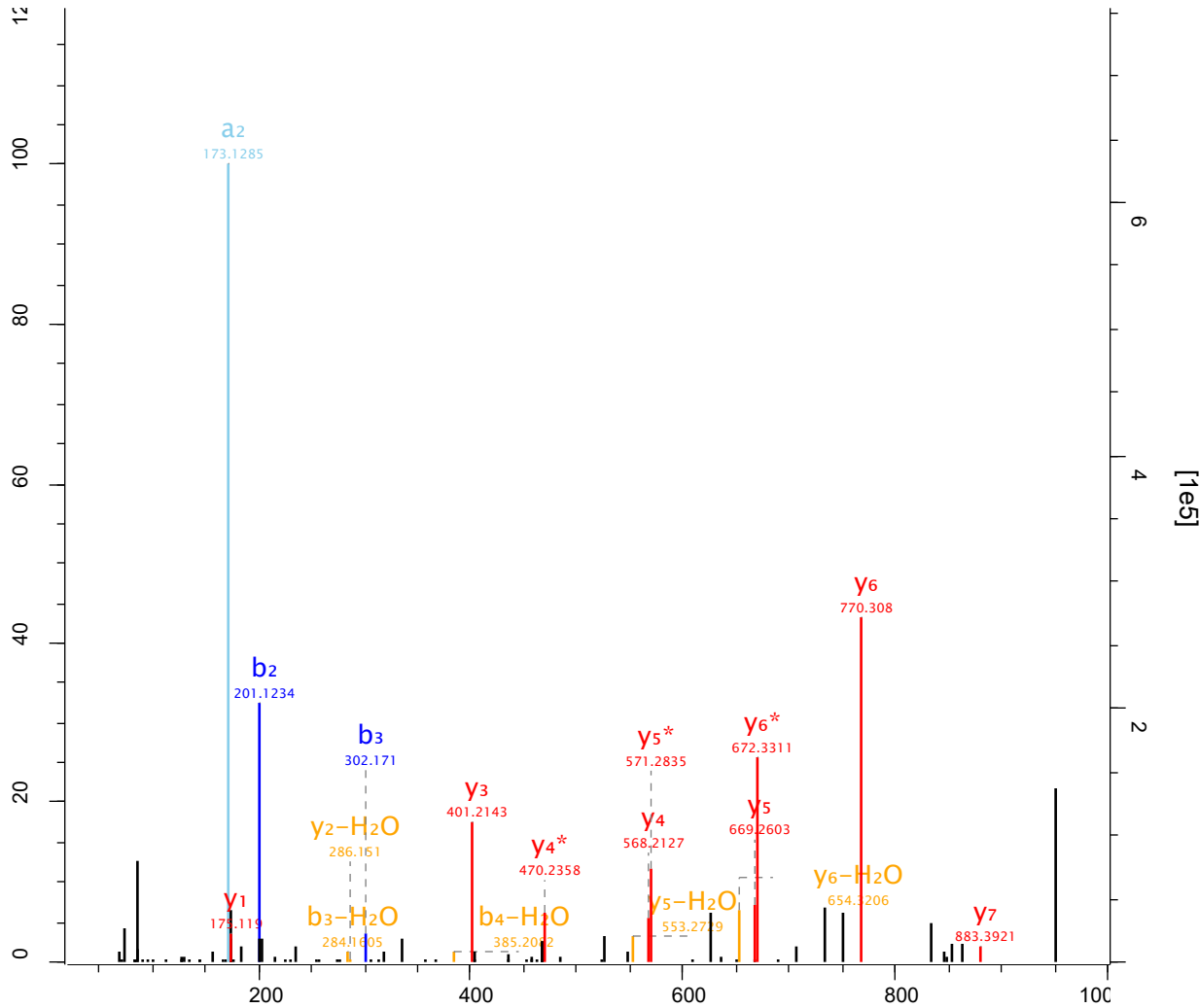
Raw file Scan Method Score m/z
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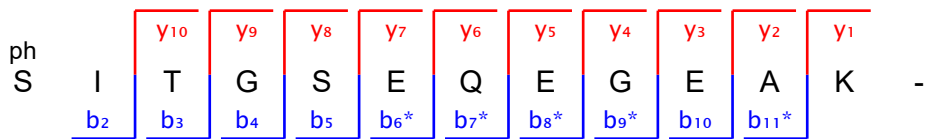
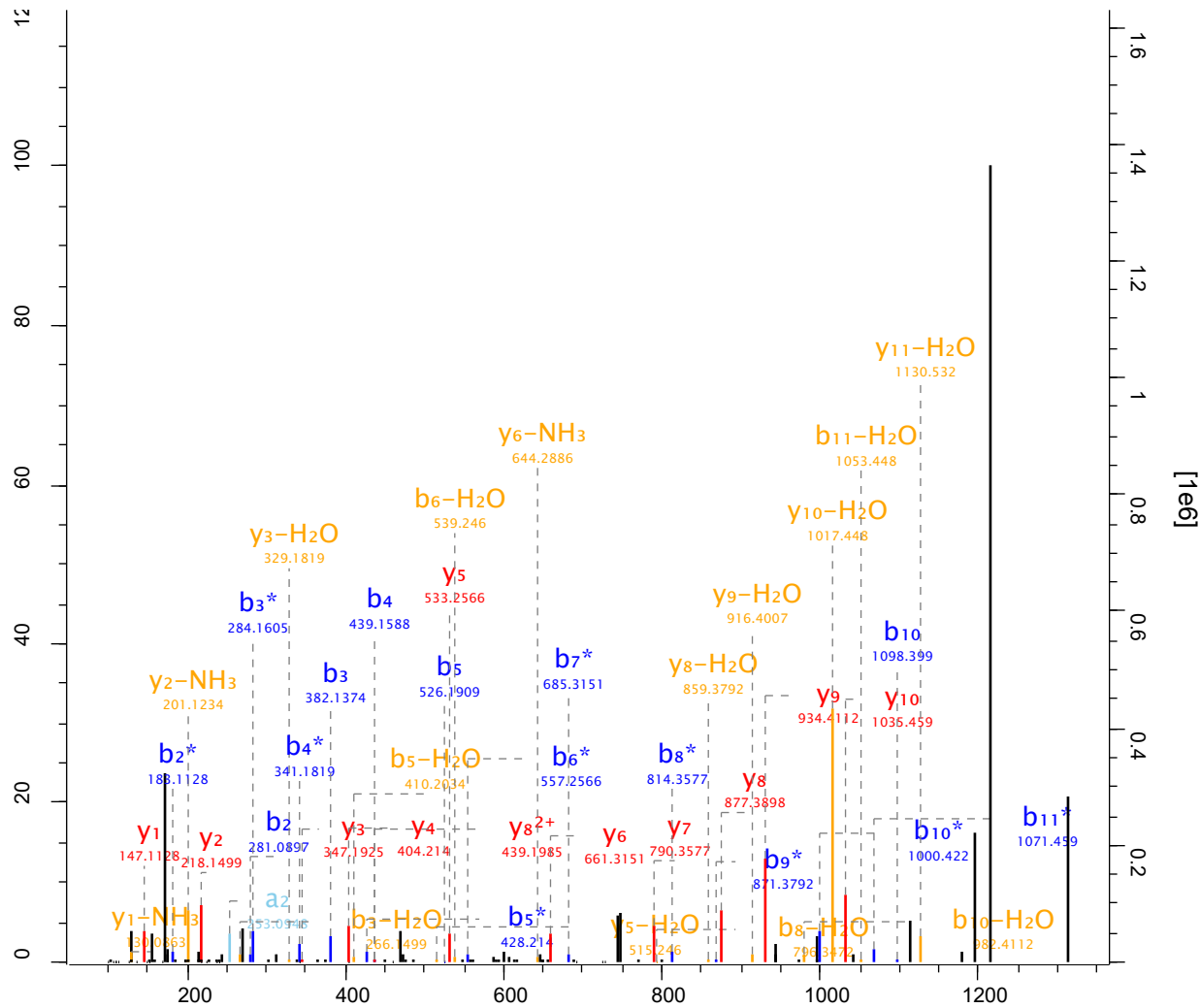
Raw file Scan Method Score m/z
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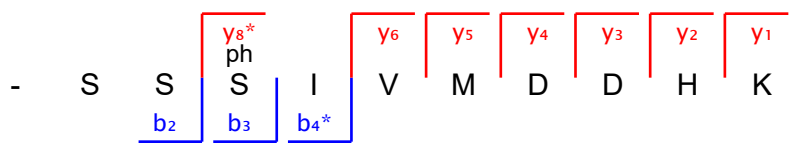
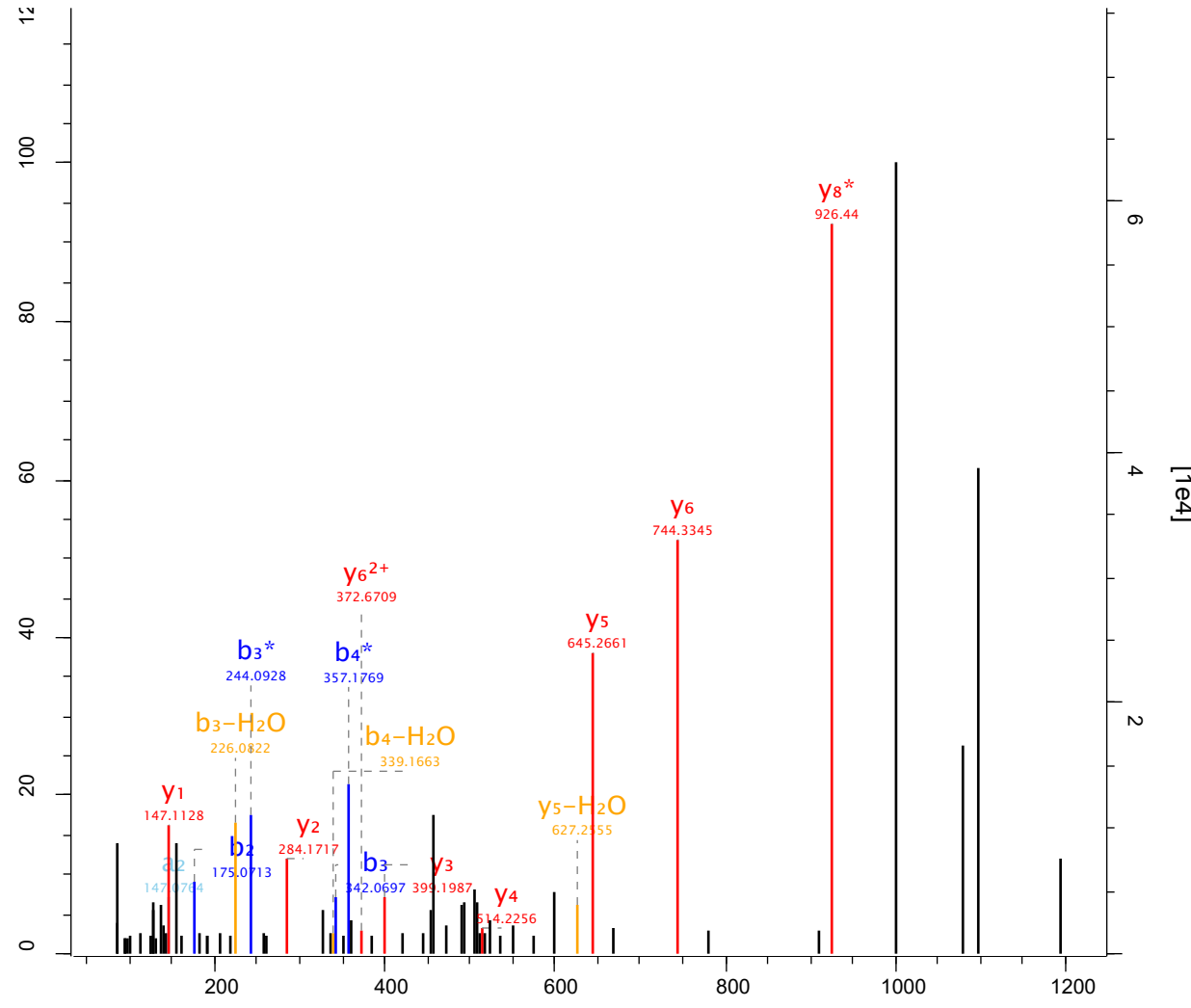
| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|--------|--------|
| sys_05_2 | 4649 | FTMS; HCD | 108.47 | 485.72 |



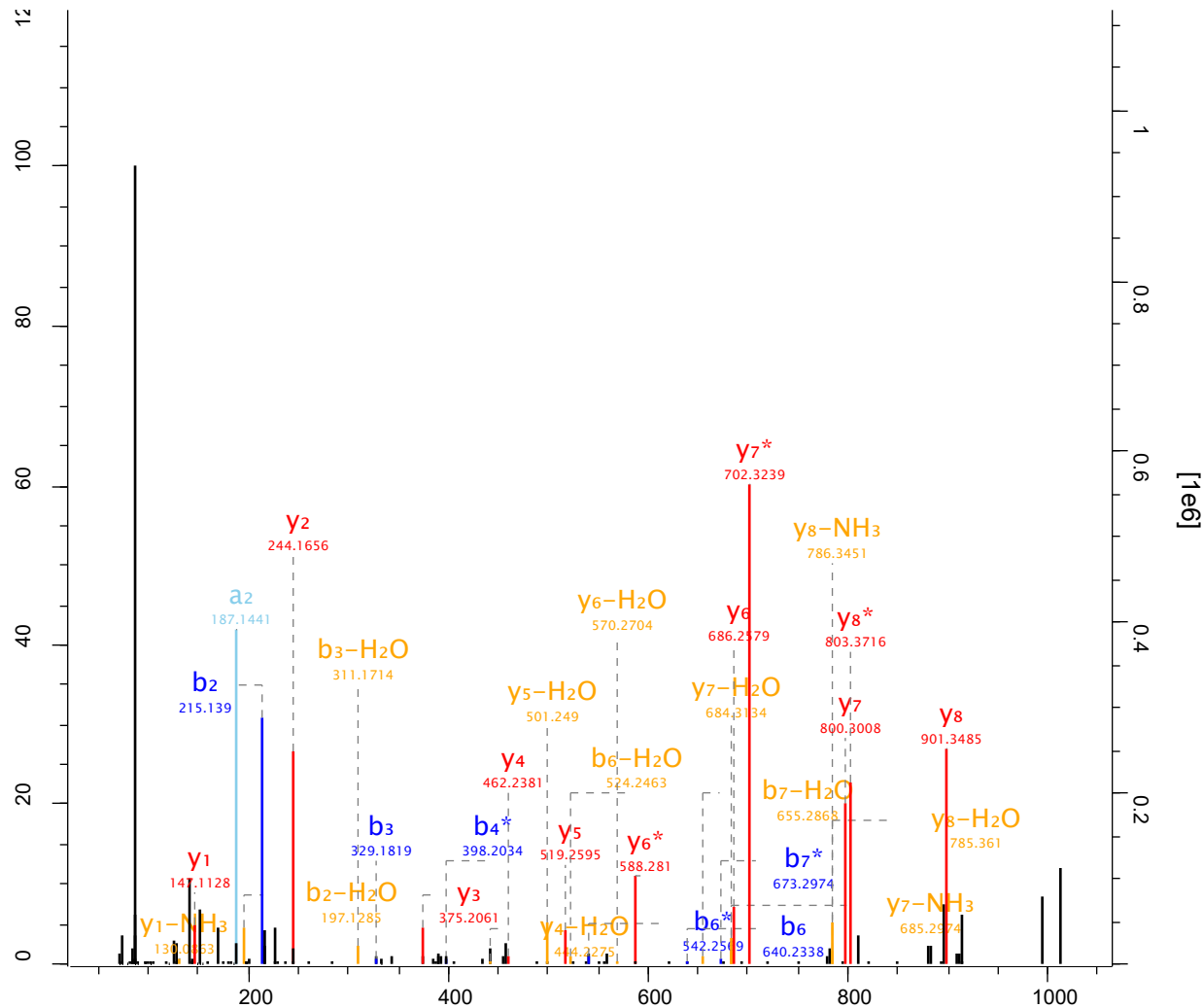
Raw file Scan Method Score m/z
 sys_05_2 4729 FTMS; HCD 203.76 658.28



| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|-------|--------|
| sys_05_2 | 4834 | FTMS; HCD | 68.68 | 599.74 |



Raw file Scan Method Score m/z
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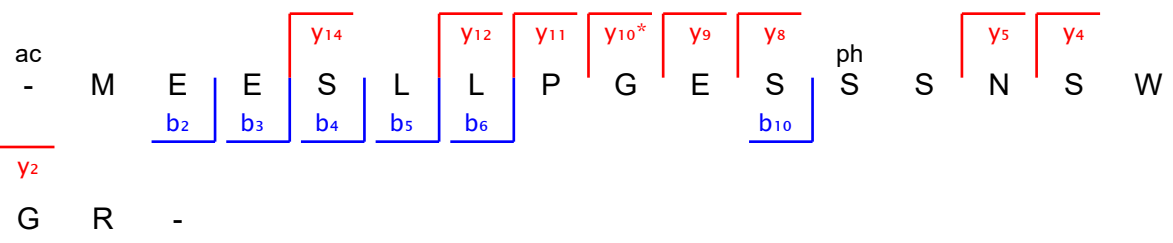
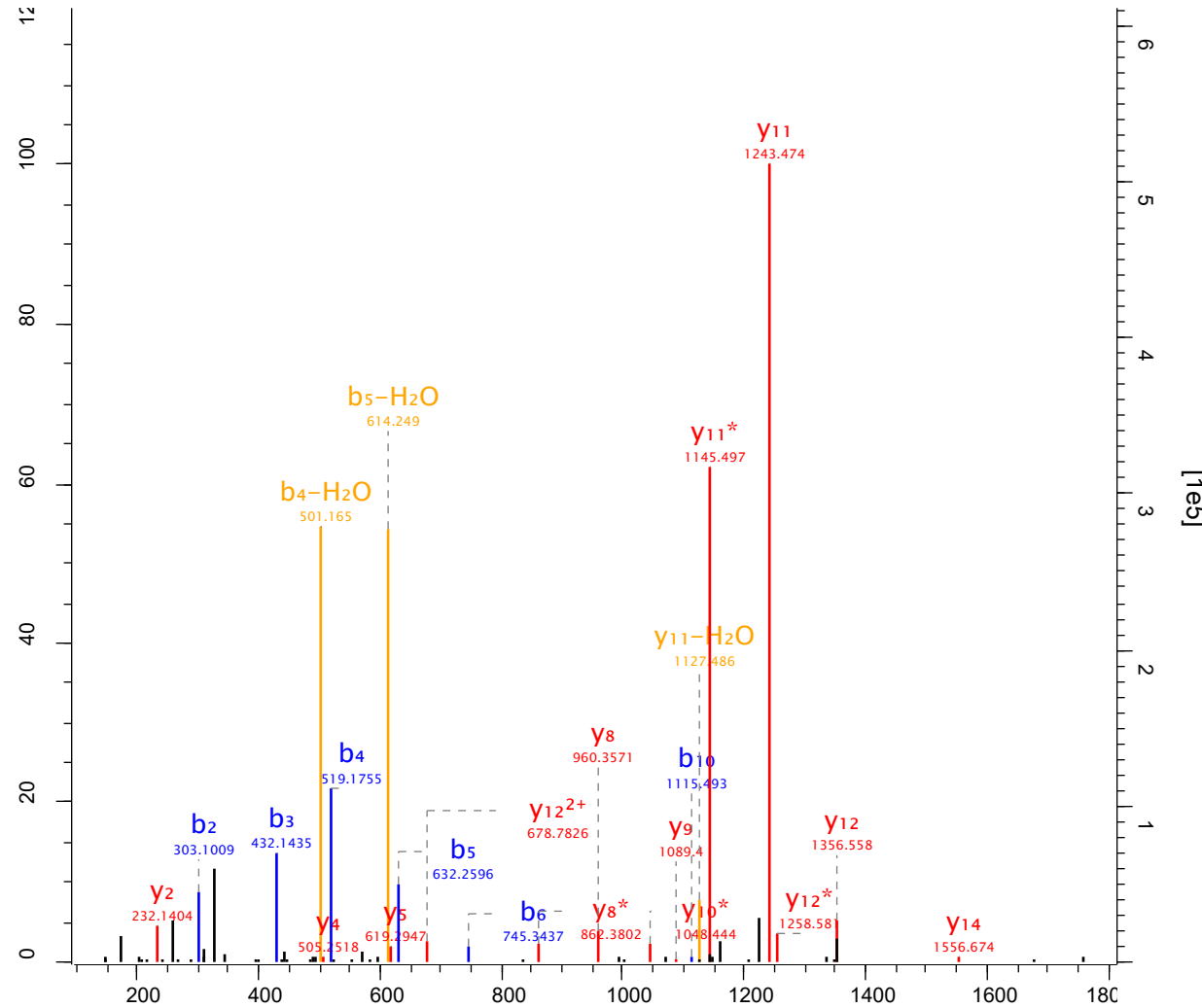


- L T N S G S M P K -

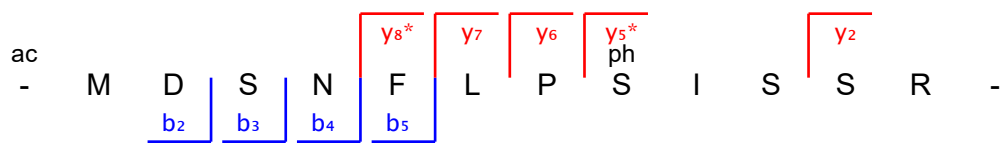
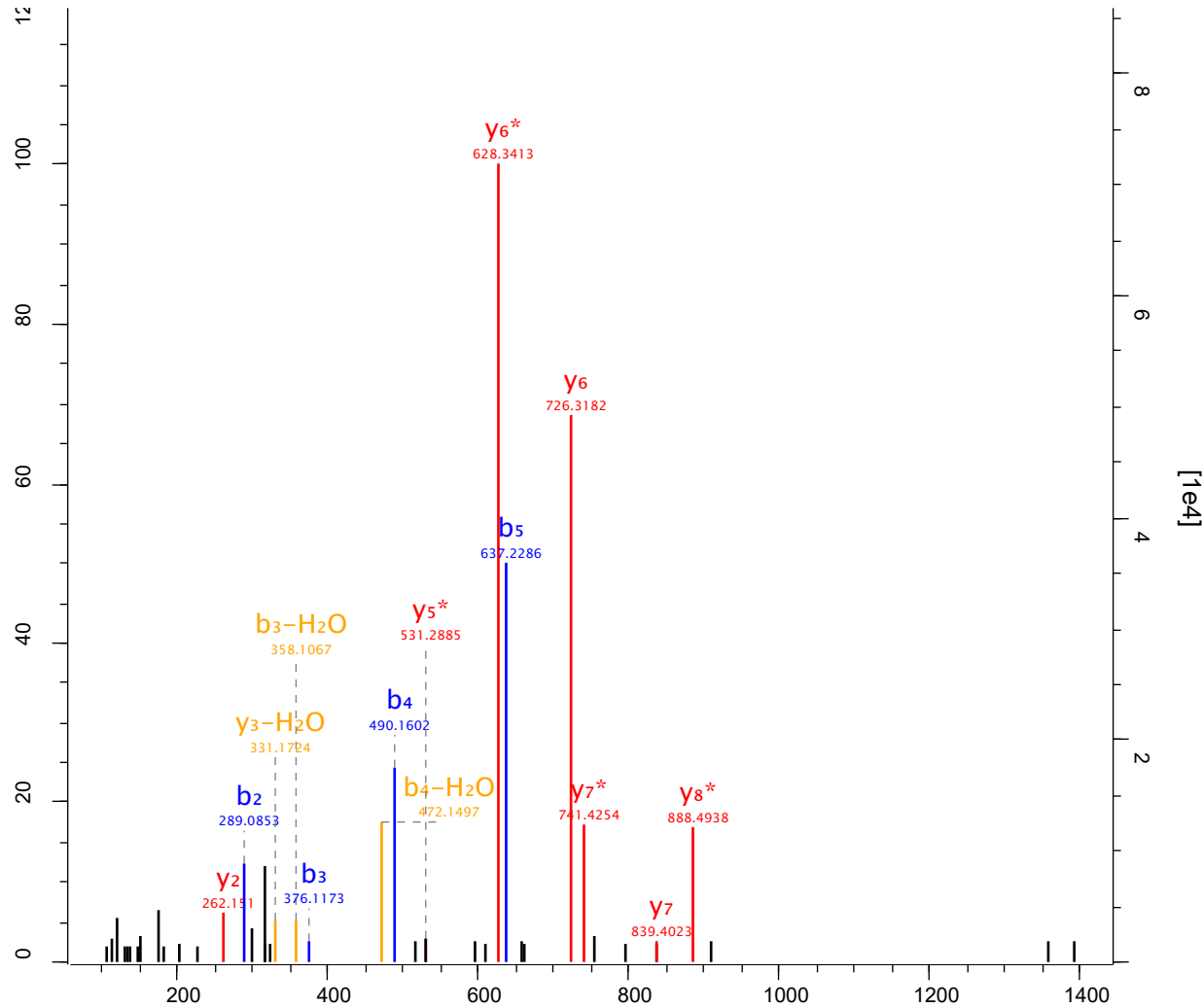
y₈
y₇
y₆
ph
y₅
y₄
y₃
y₂
y₁

b₂
b₃
b₄*
b₆
b₇*

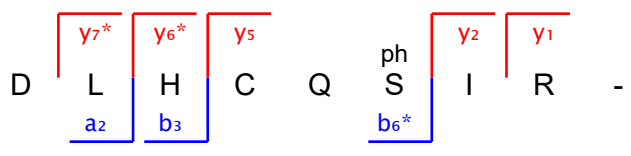
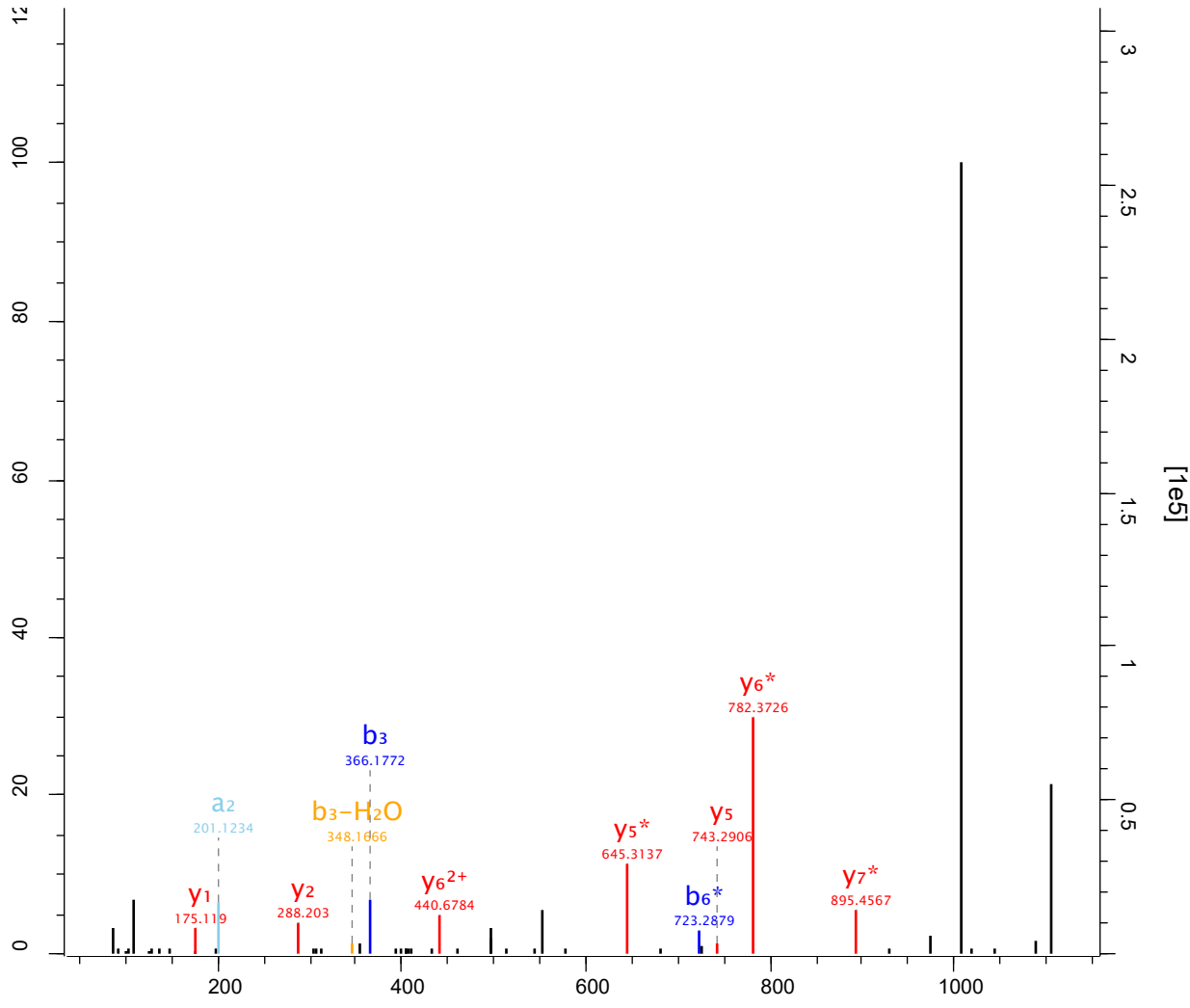
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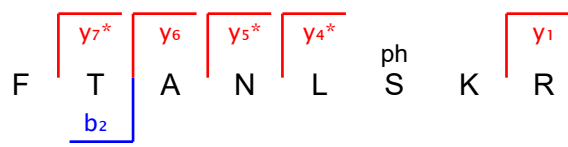
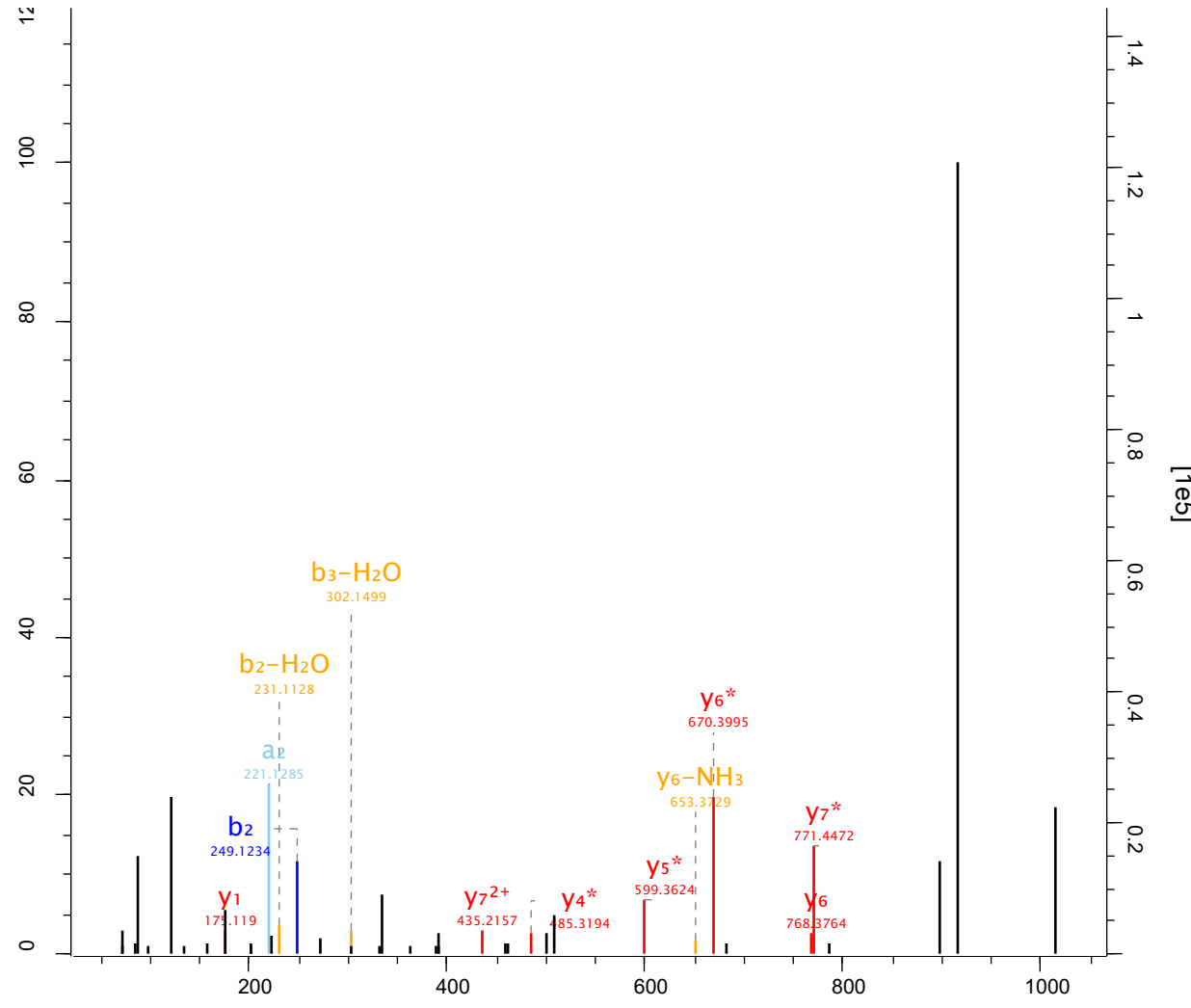
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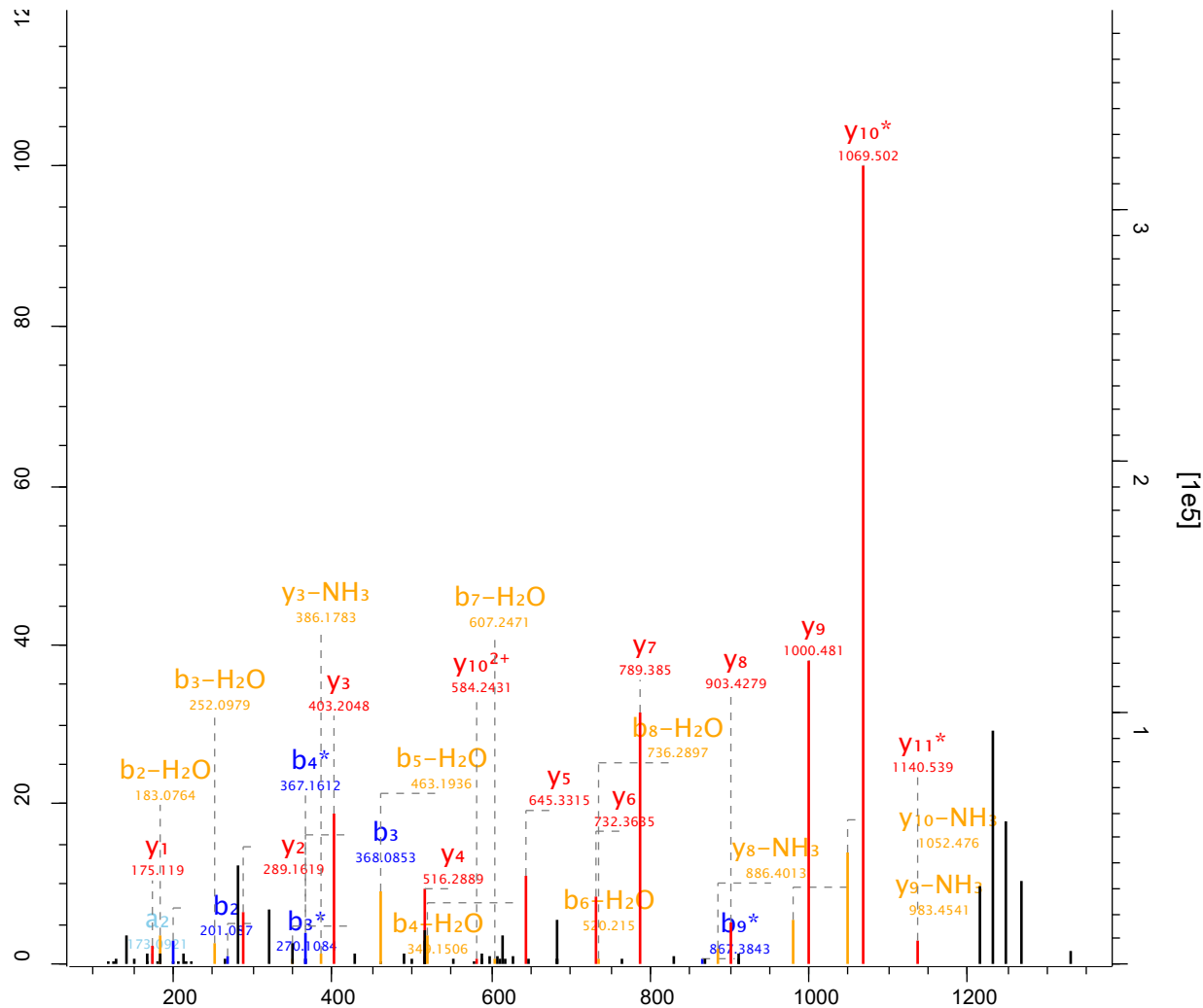
Raw file Scan Method Score m/z
 sys_05_2 5204 FTMS; HCD 67.33 554.73



| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|-------|--------|
| sys_05_2 | 5273 | FTMS; HCD | 68.66 | 508.75 |



Raw file Scan Method Score m/z
 sys_05_2 5406 FTMS; HCD 107.35 684.28

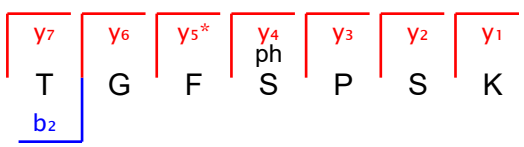
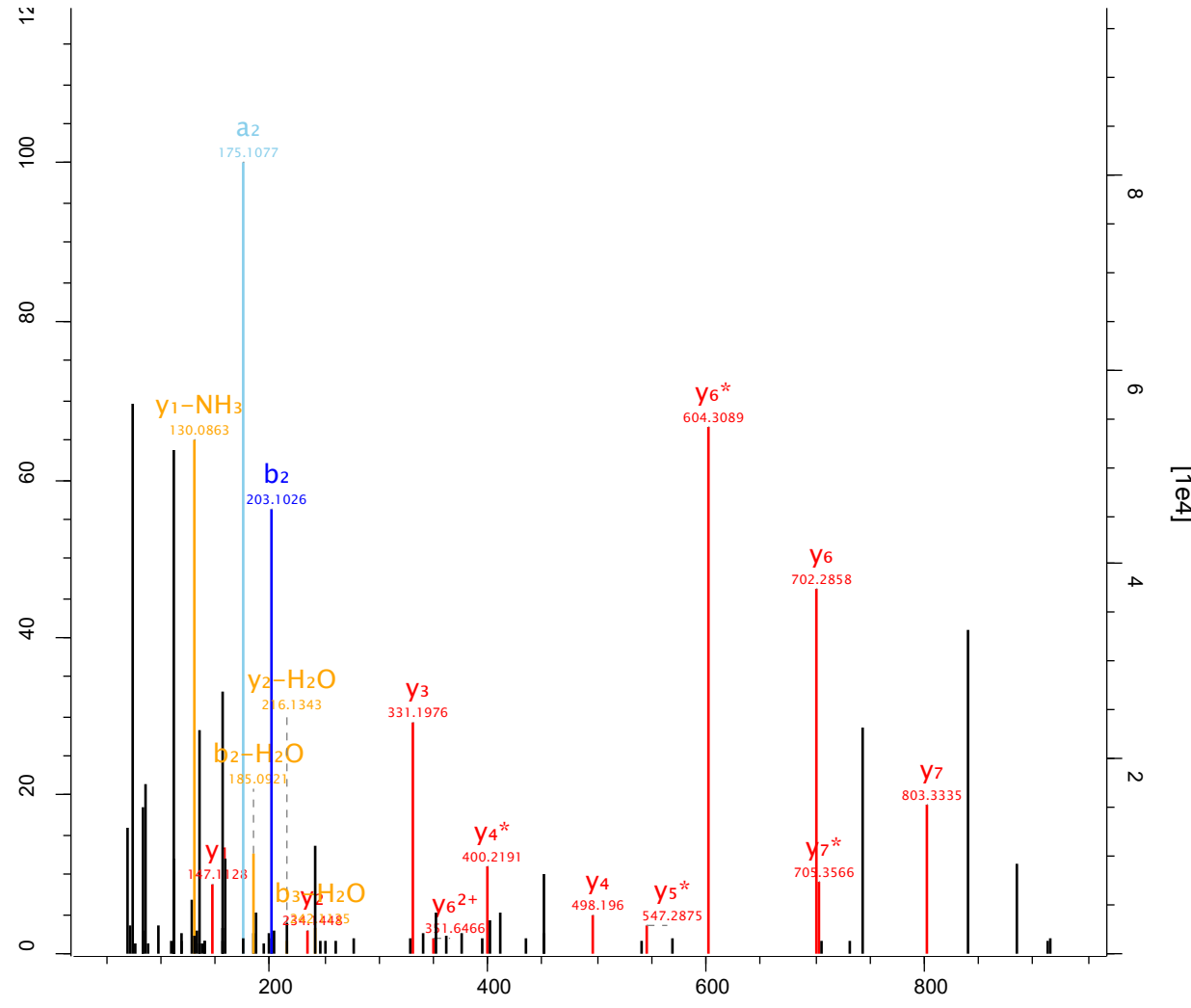


- E A S P N G S E I N N R -

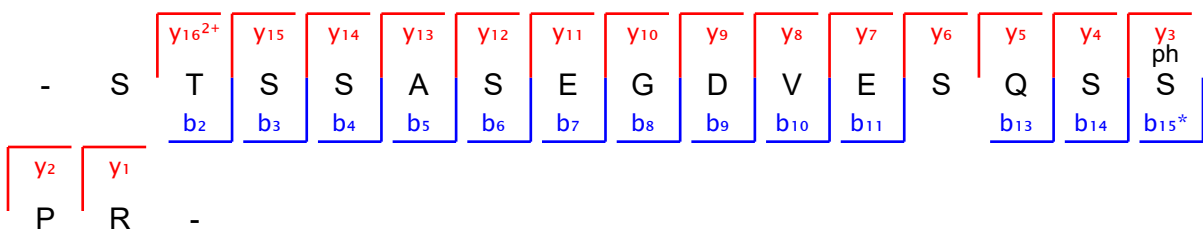
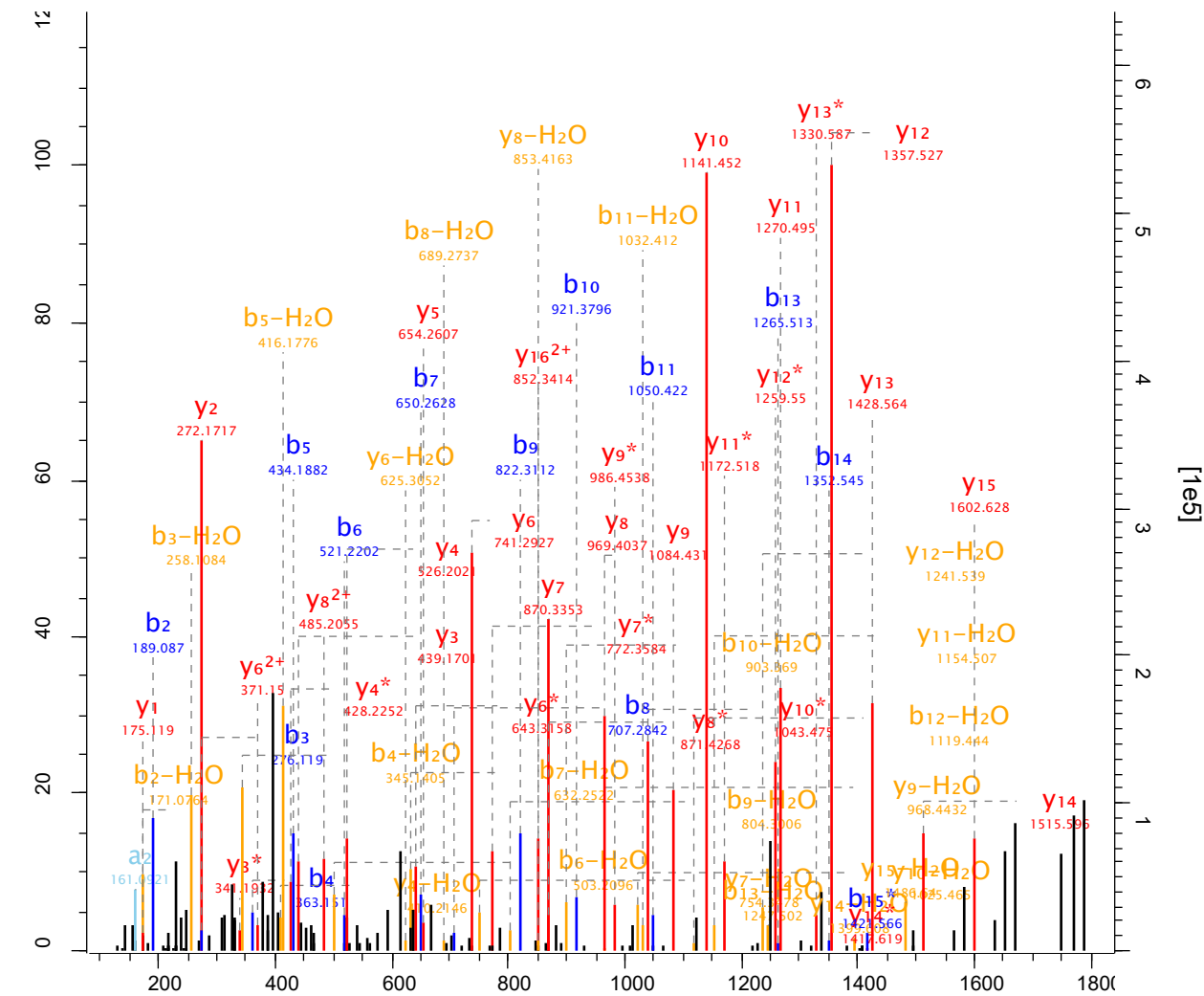
b₂
b₃
b₄^{*}
b₉^{*}

y₁₁^{*}
y₁₀^{*}
y₉
y₈
y₇
y₆
y₅
y₄
y₃
y₂
y₁

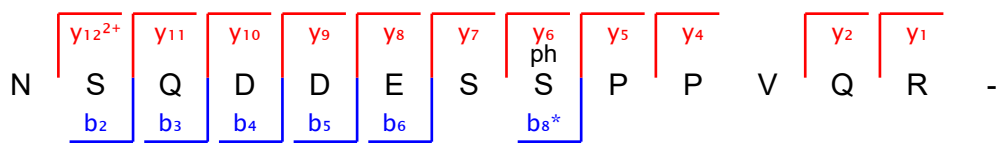
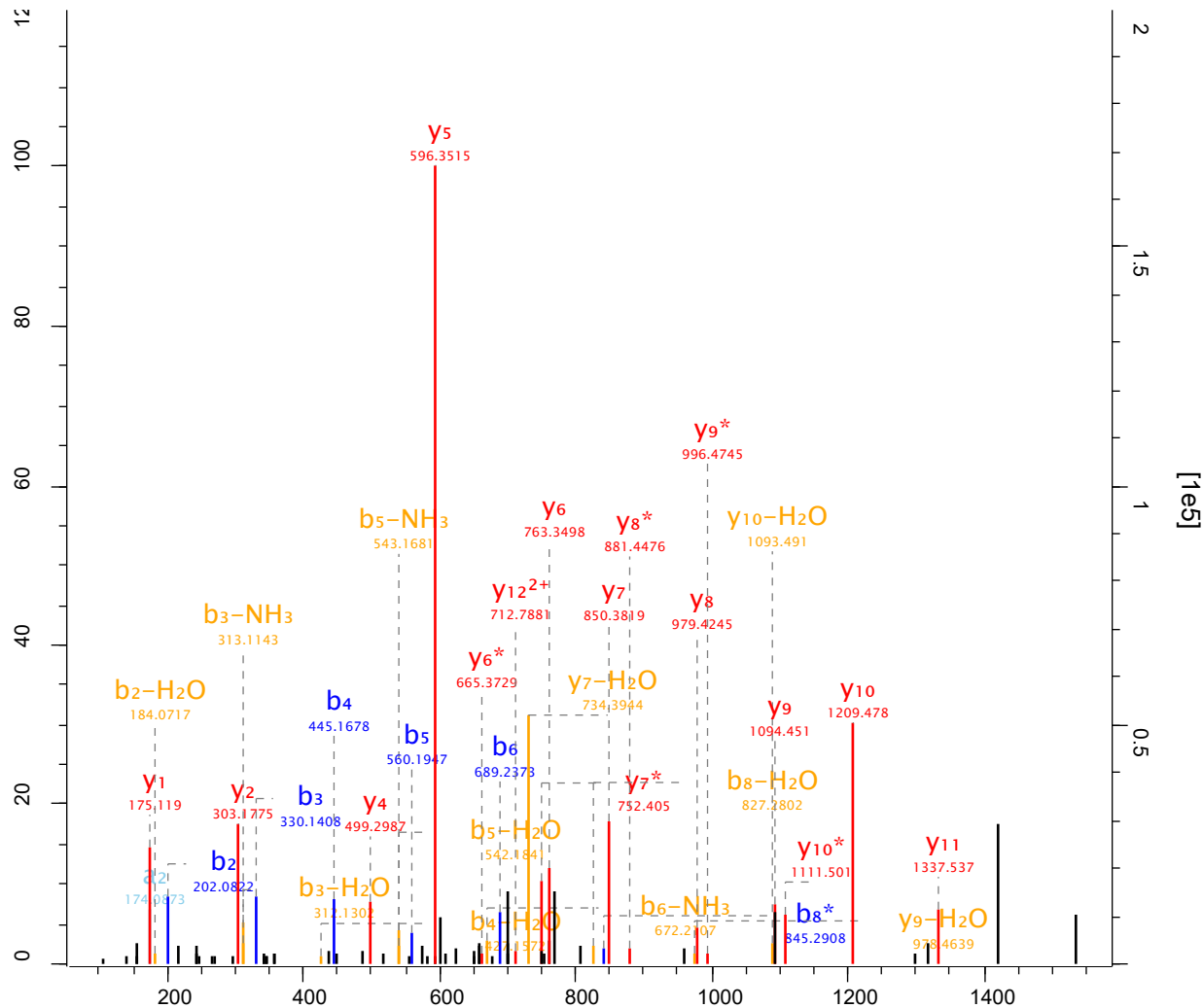
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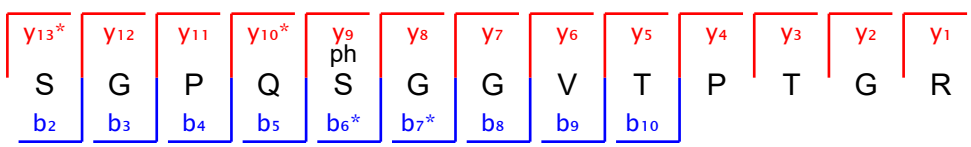
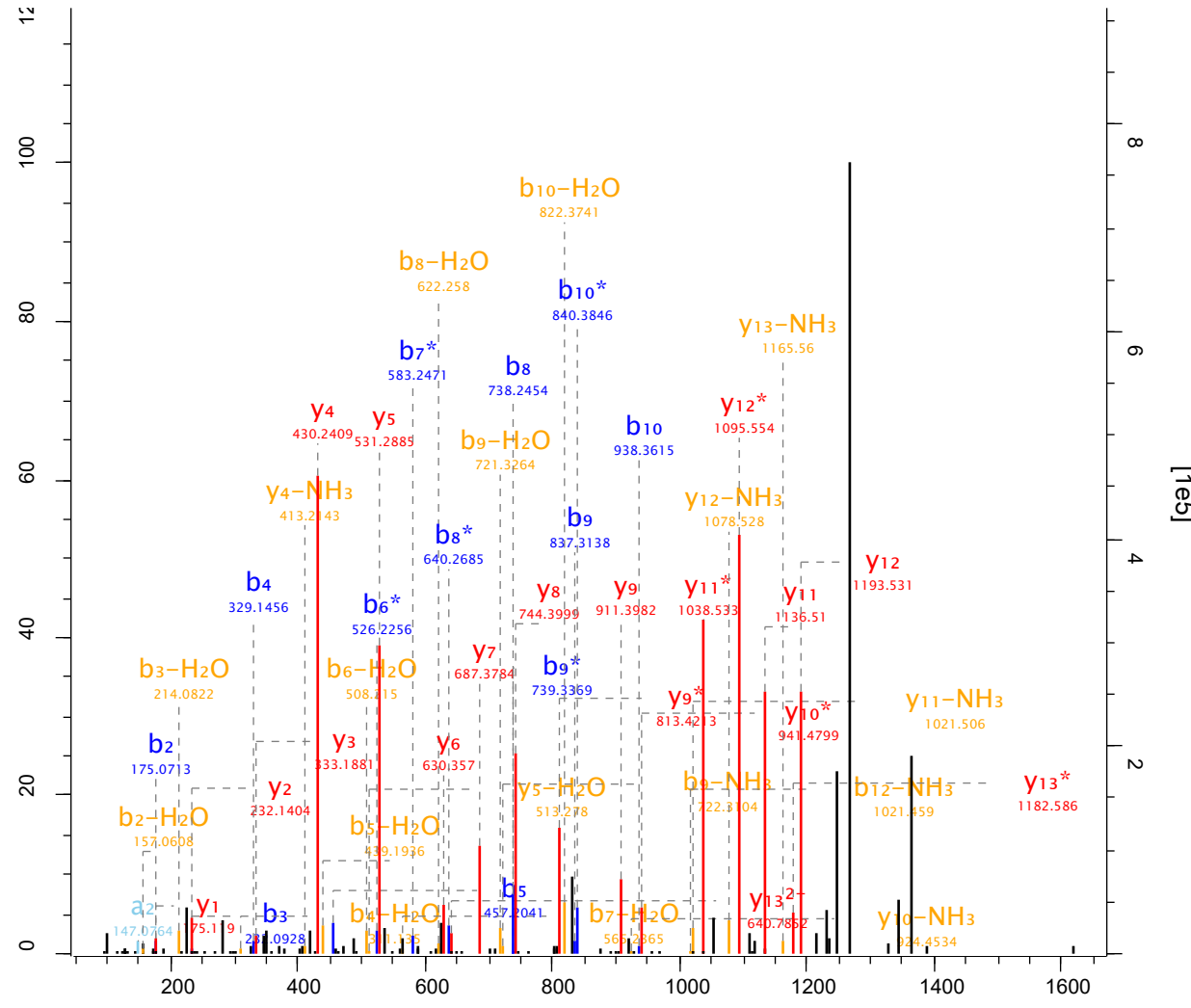
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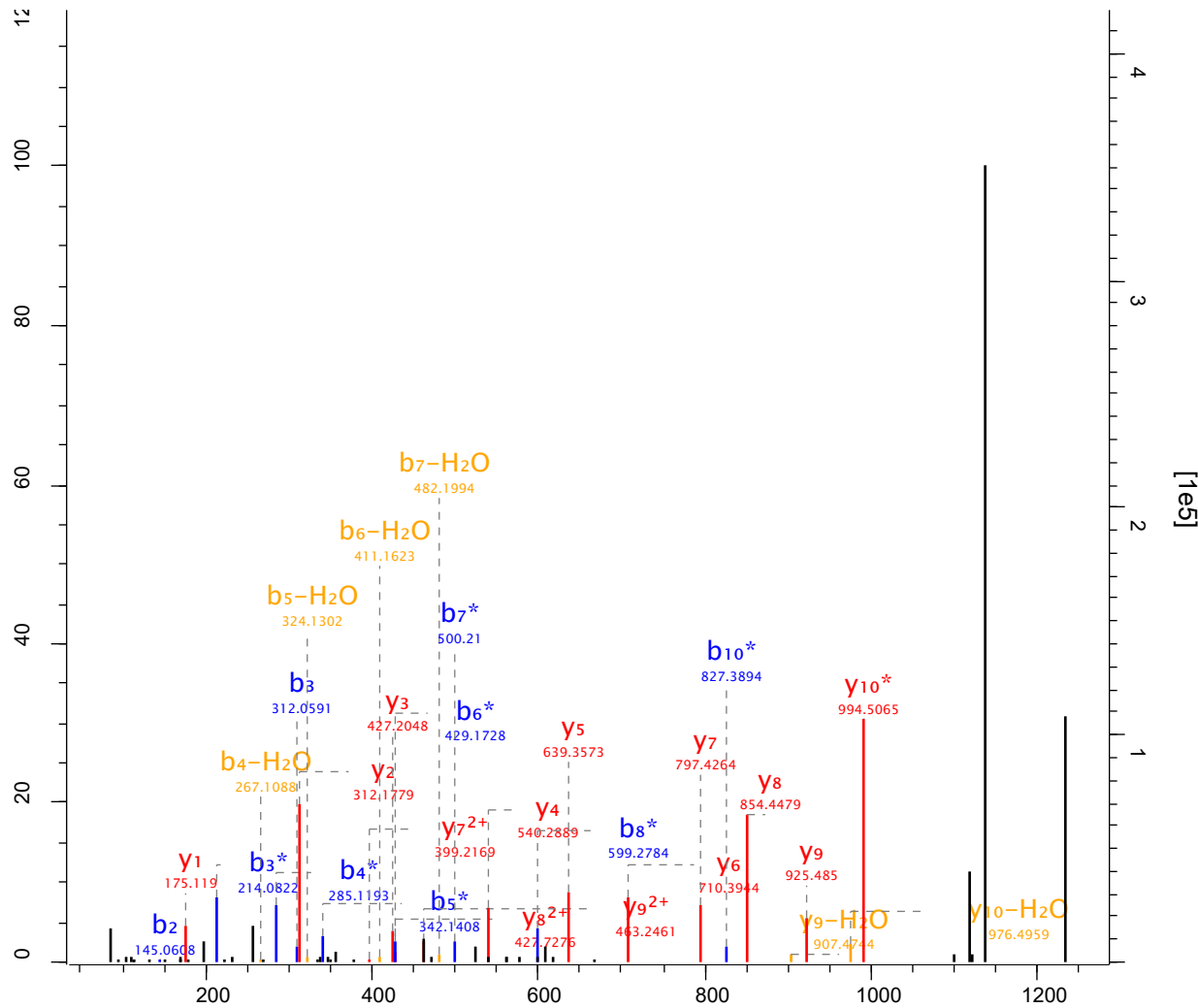
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Raw file Scan Method Score m/z
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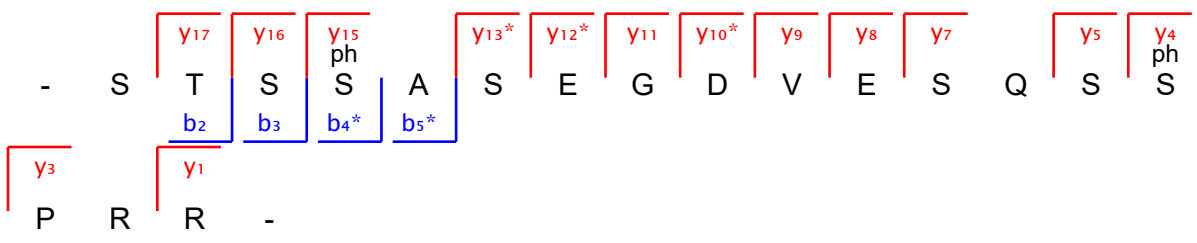
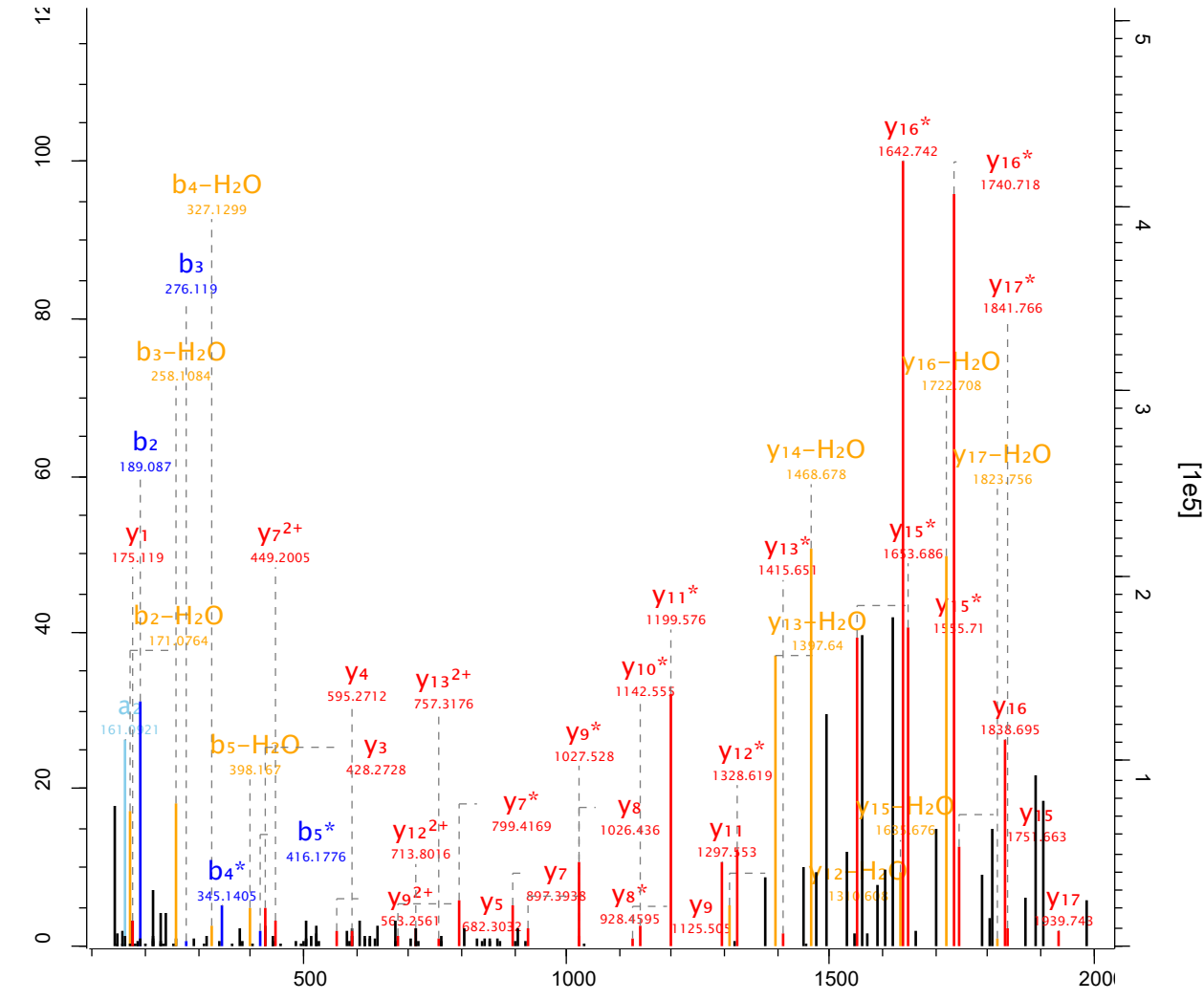


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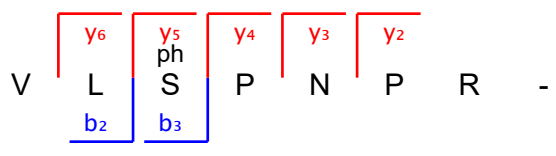
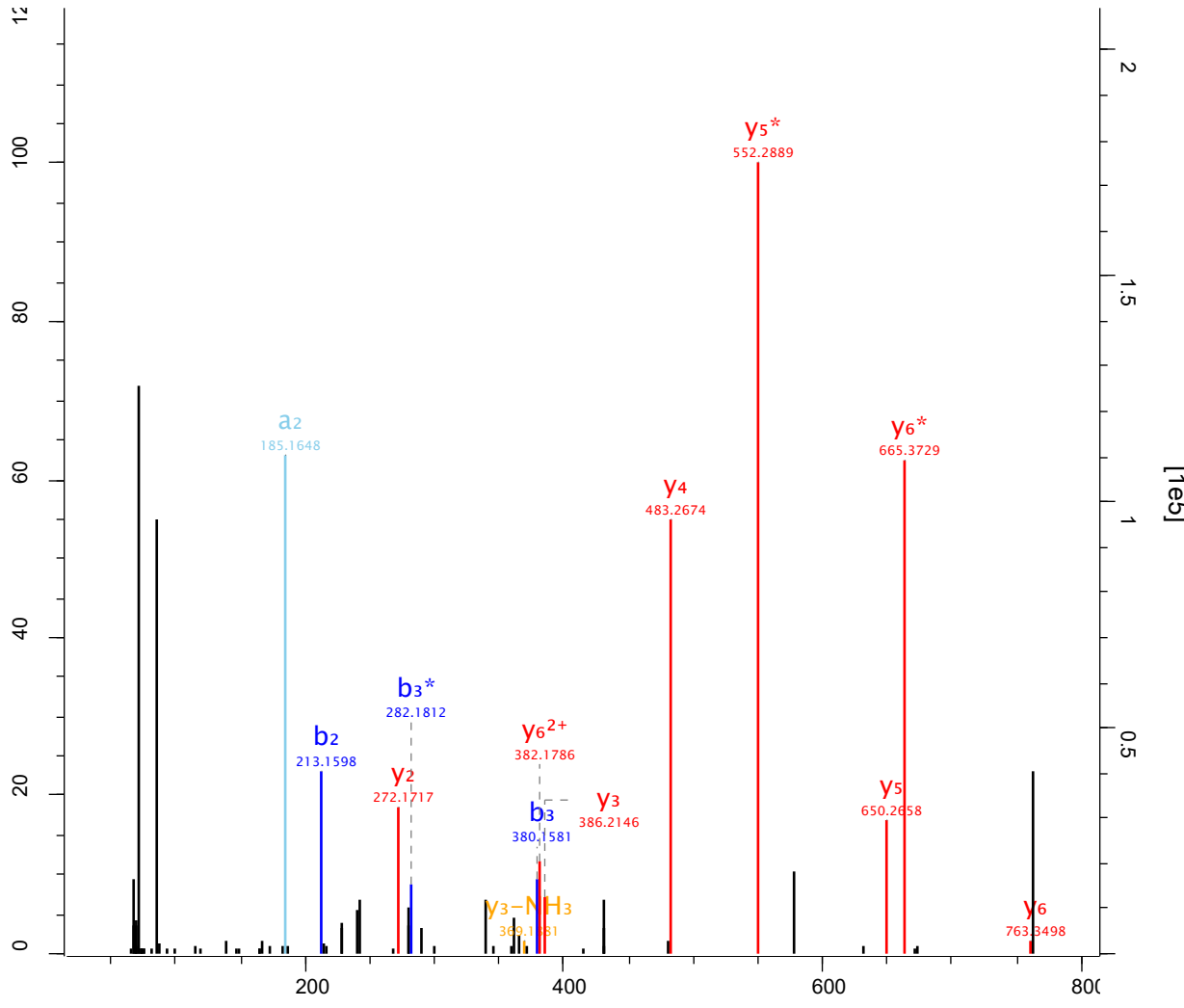


- S G y₁₀* y₉ y₈ y₇ y₆ y₅ y₄ y₃ y₂ y₁ -
b₂ b₃ b₄* b₅* b₆* b₇* b₈* L b₁₀* H R -

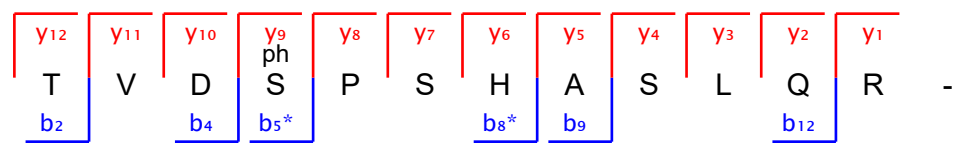
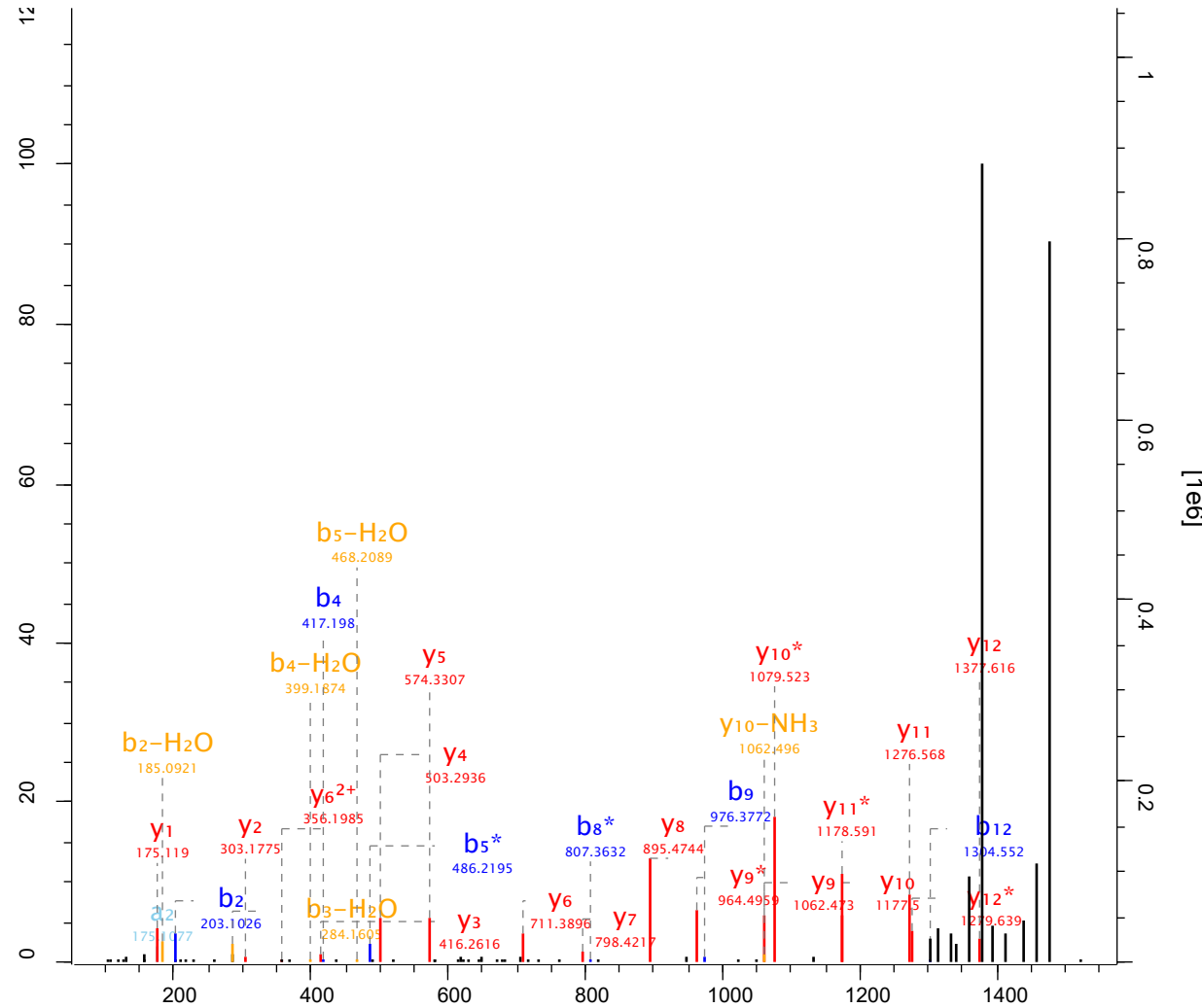
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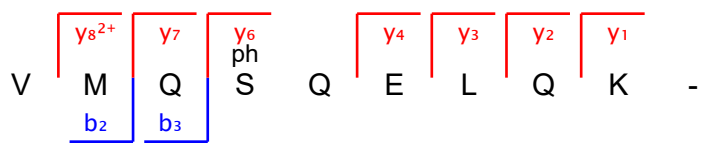
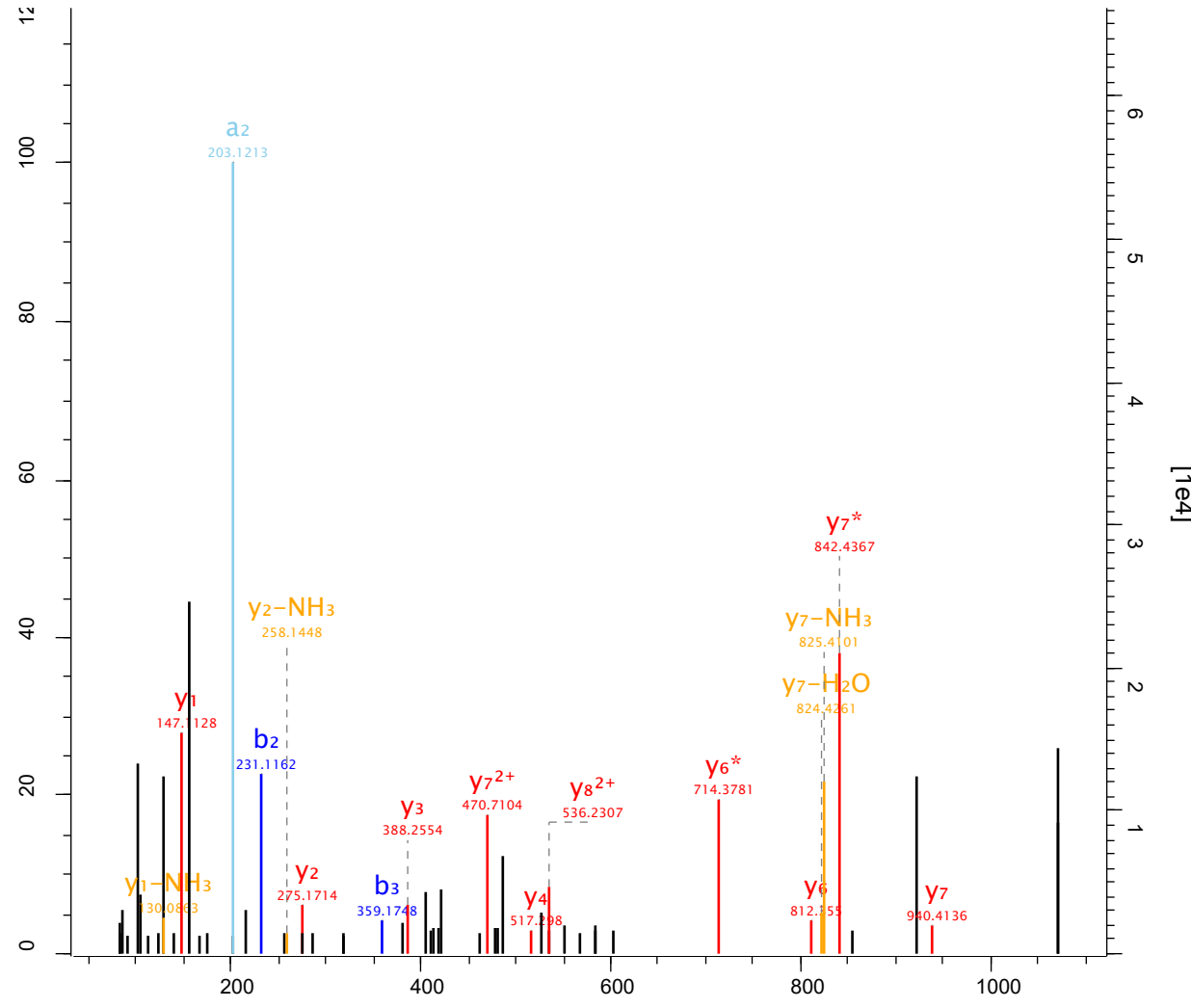
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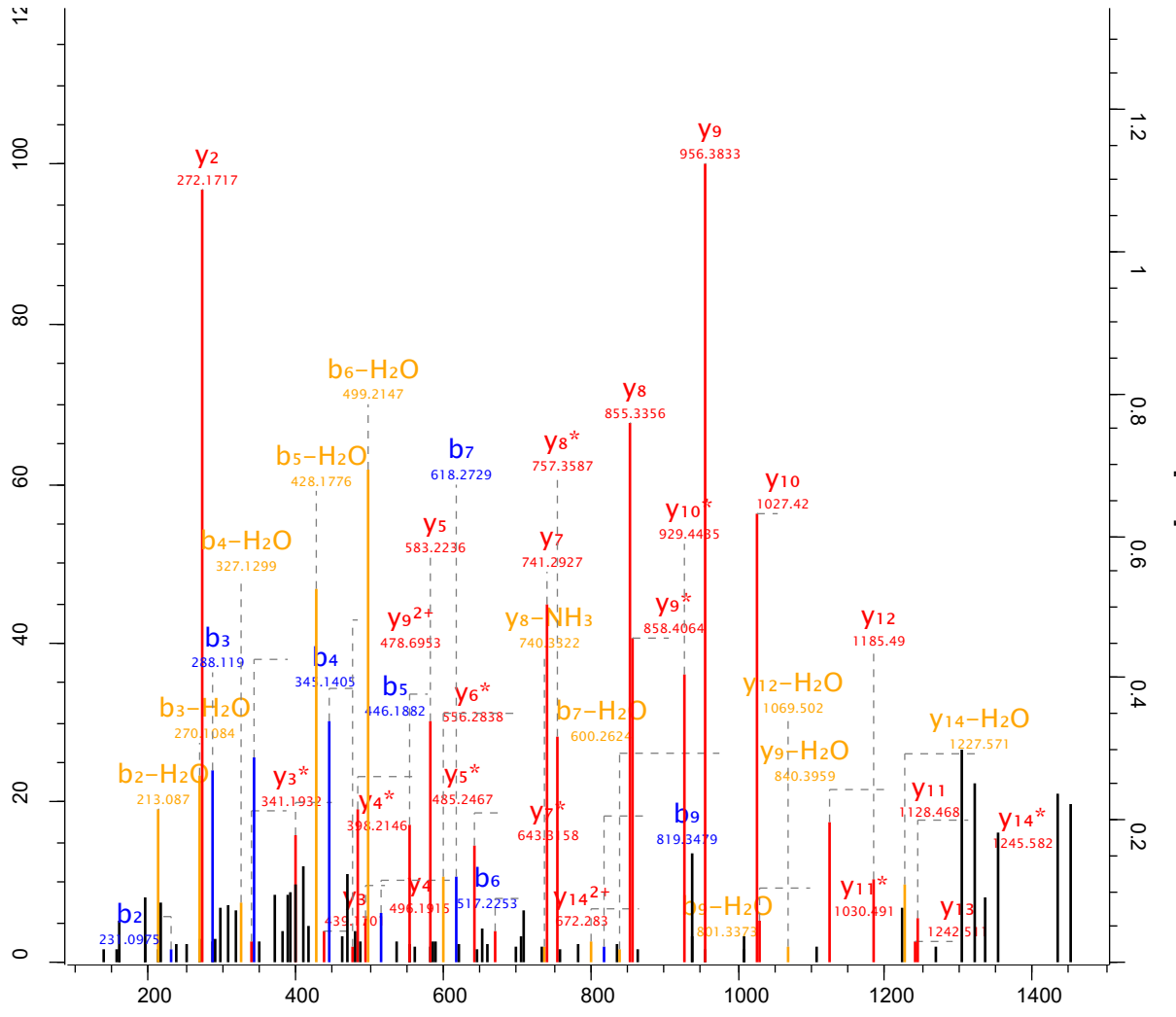
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Raw file Scan Method Score m/z
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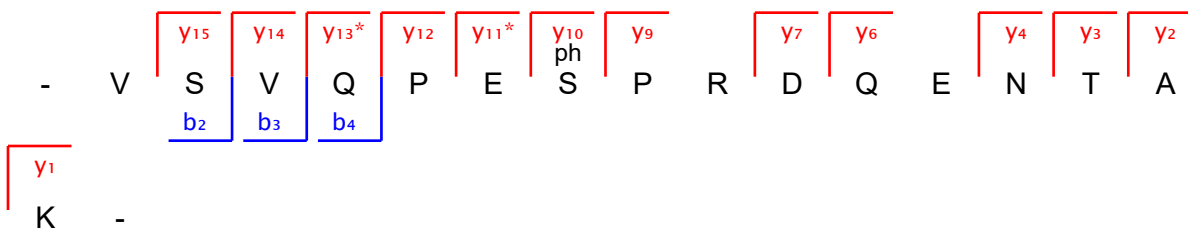
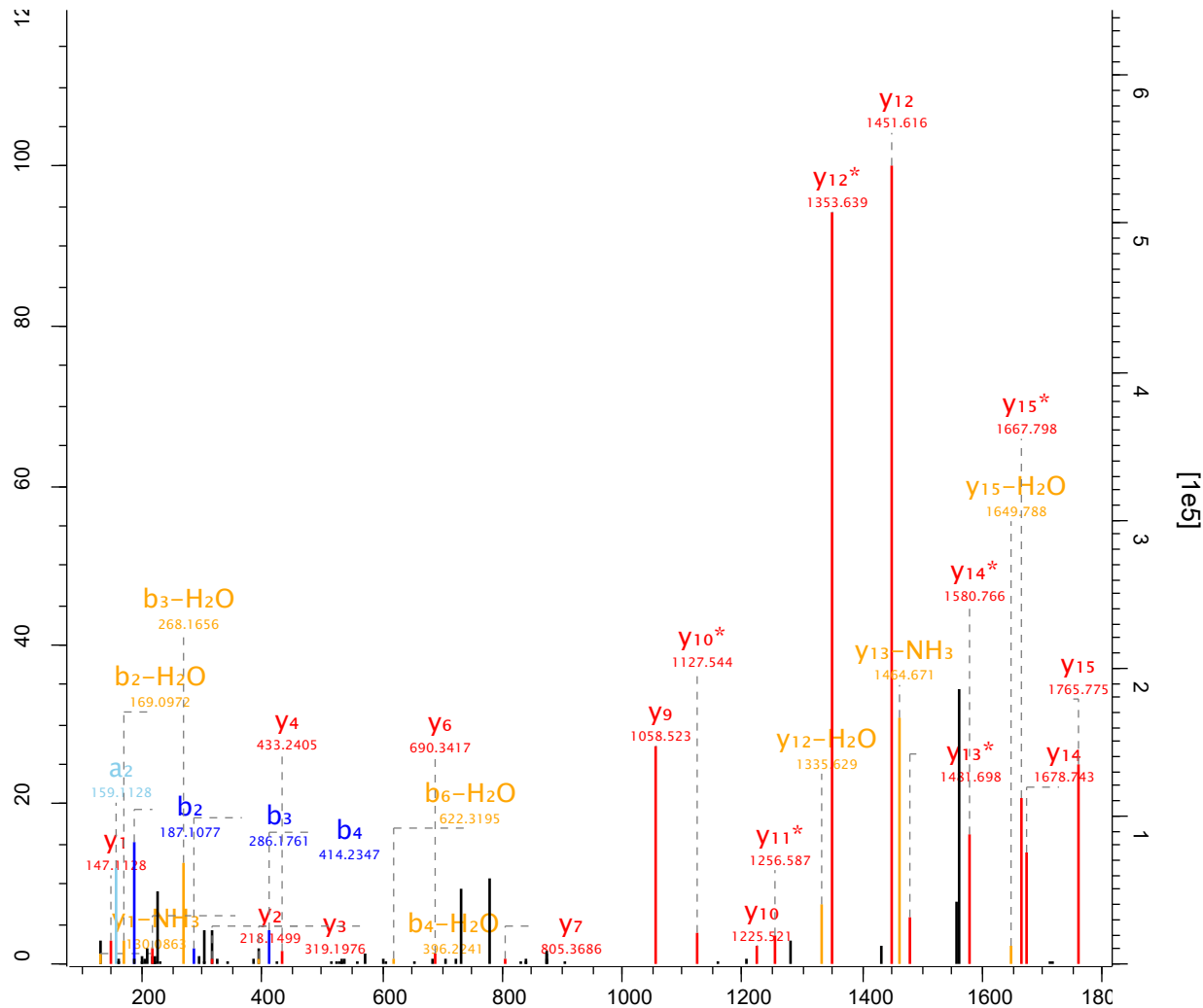
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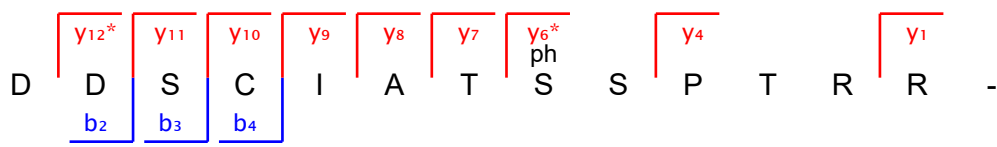
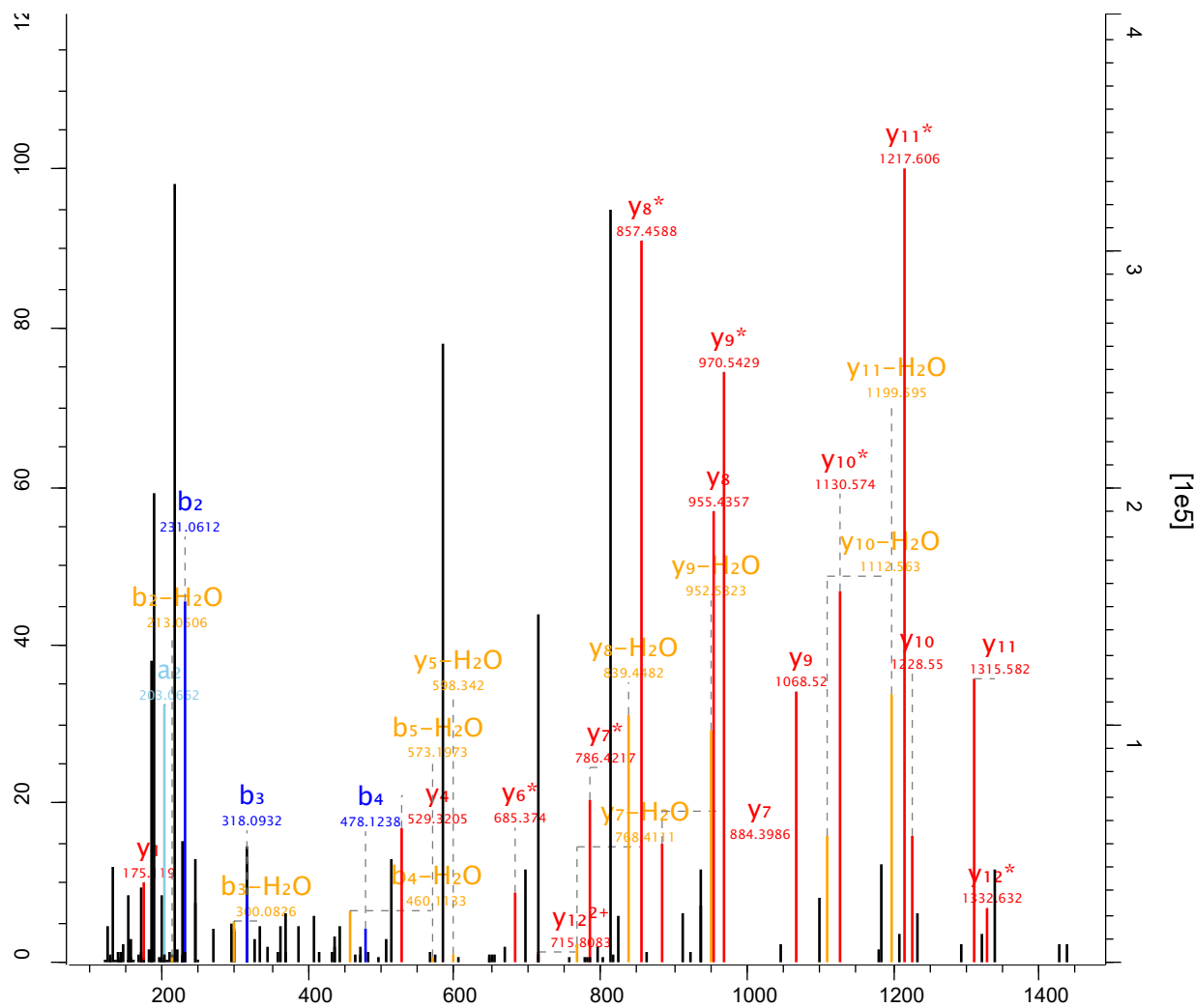
ac
 - S T G G T A T N S A S G S P R
 -
 -

Fragmentation mapping showing b and y ions corresponding to the peptide sequence: S T G G T A T N S A S G S P R. The b ions (blue) are b₂ through b₉, and the y ions (red) are y₂ through y₁₄. The sequence is shown with brackets indicating the fragmentation sites.

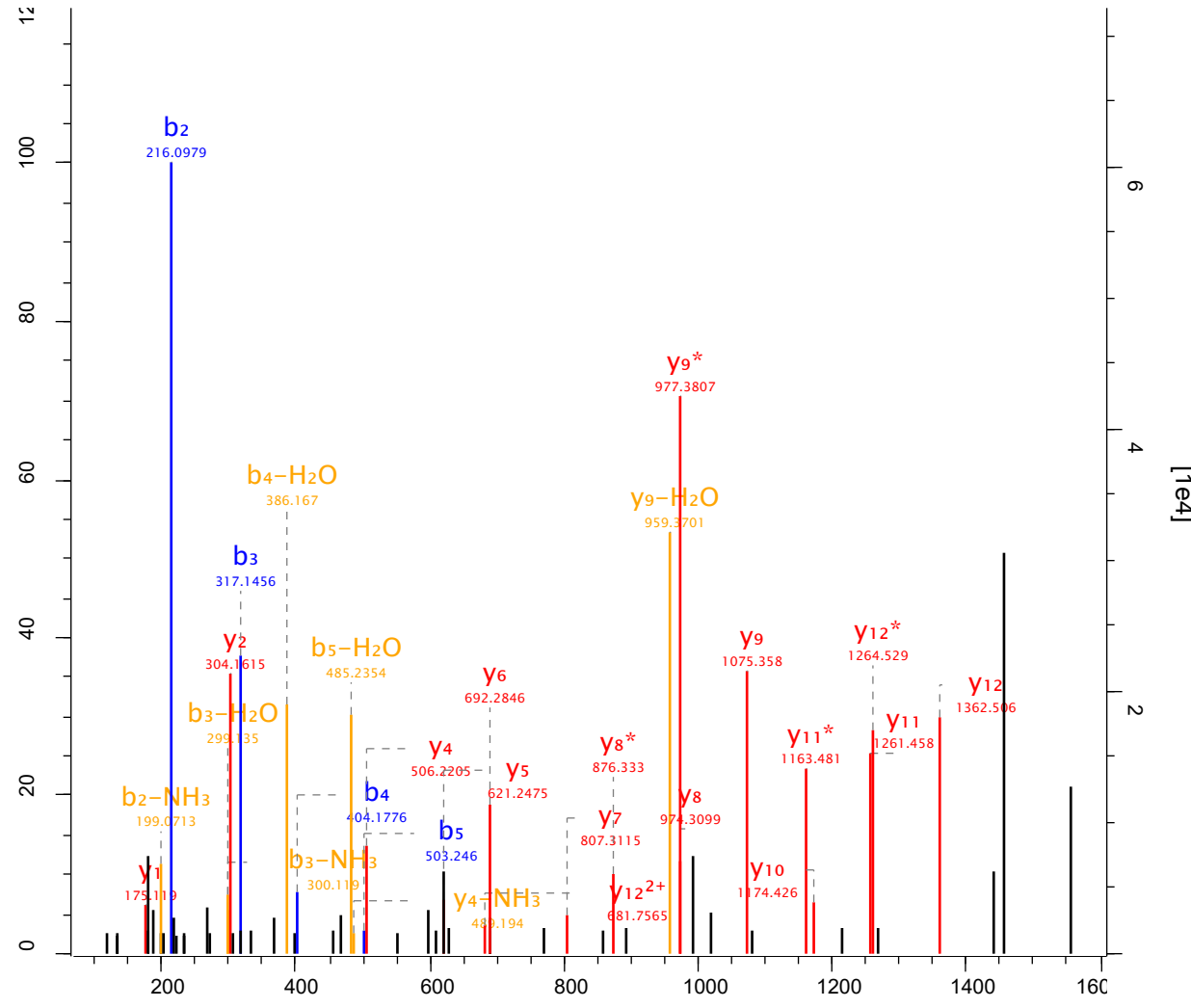
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Raw file Scan Method Score m/z
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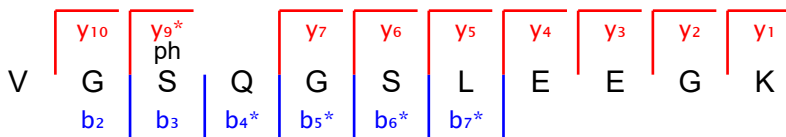
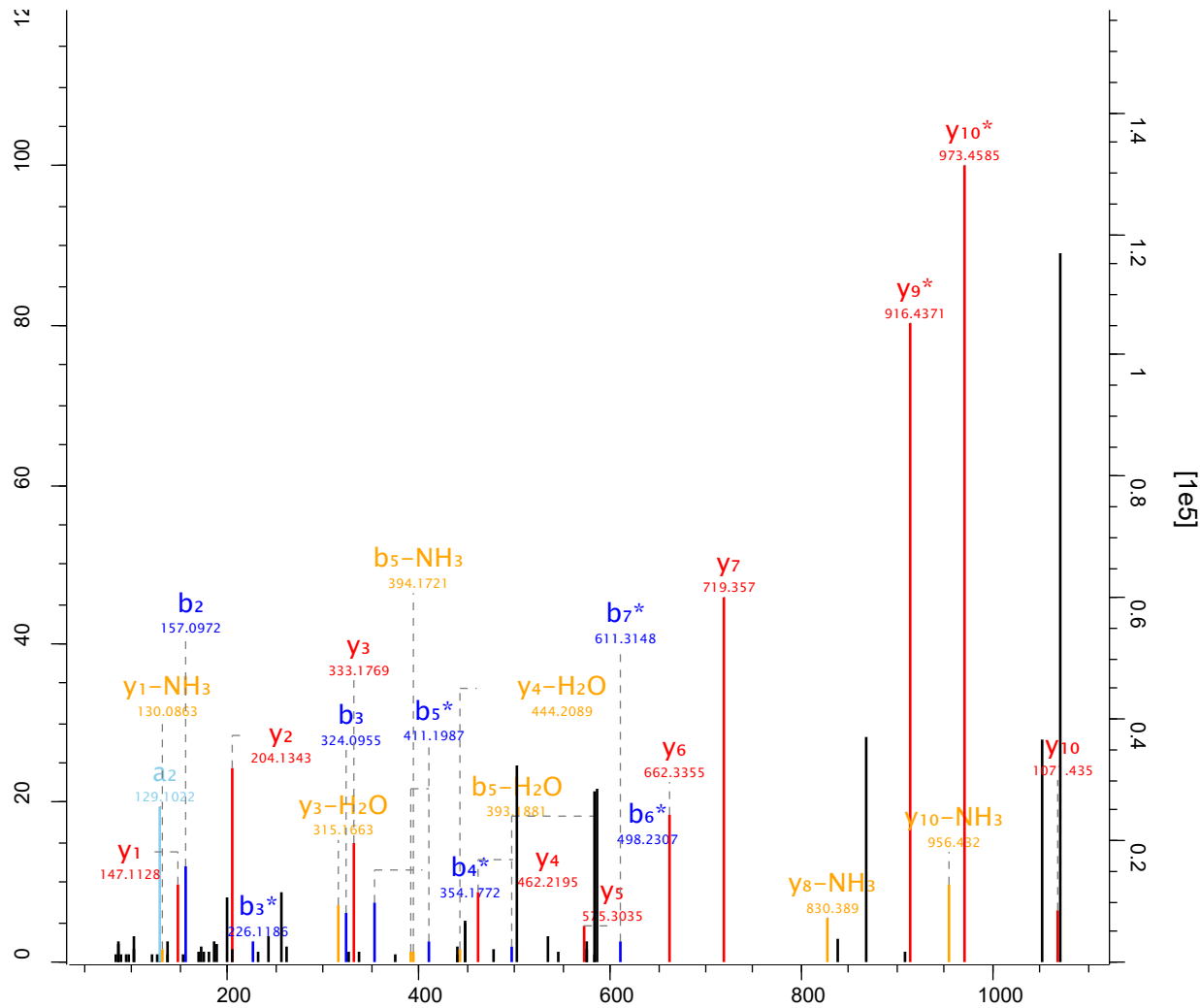
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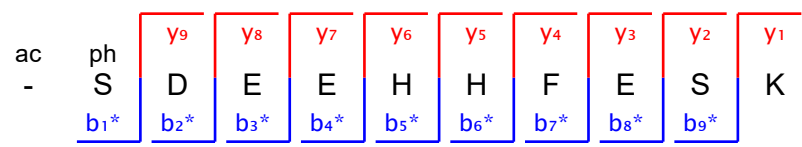
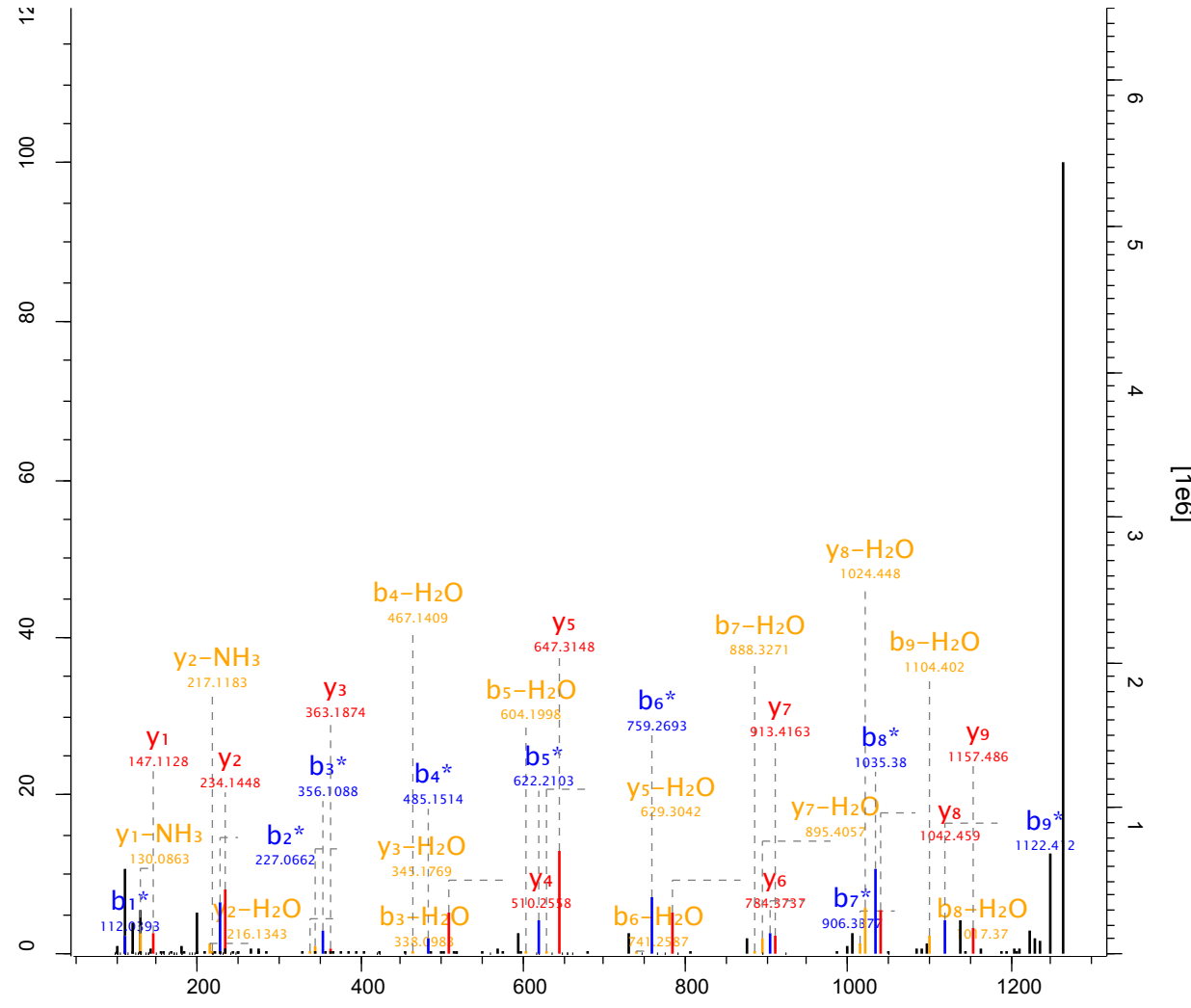
- S Q T S V T S D A D S D E R -

b₂
b₃
b₄
b₅
y₁₂
y₁₁
y₁₀
y₉
y₈
ph
y₇
y₆
y₅
y₄
y₂
y₁

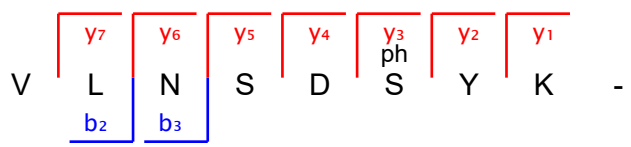
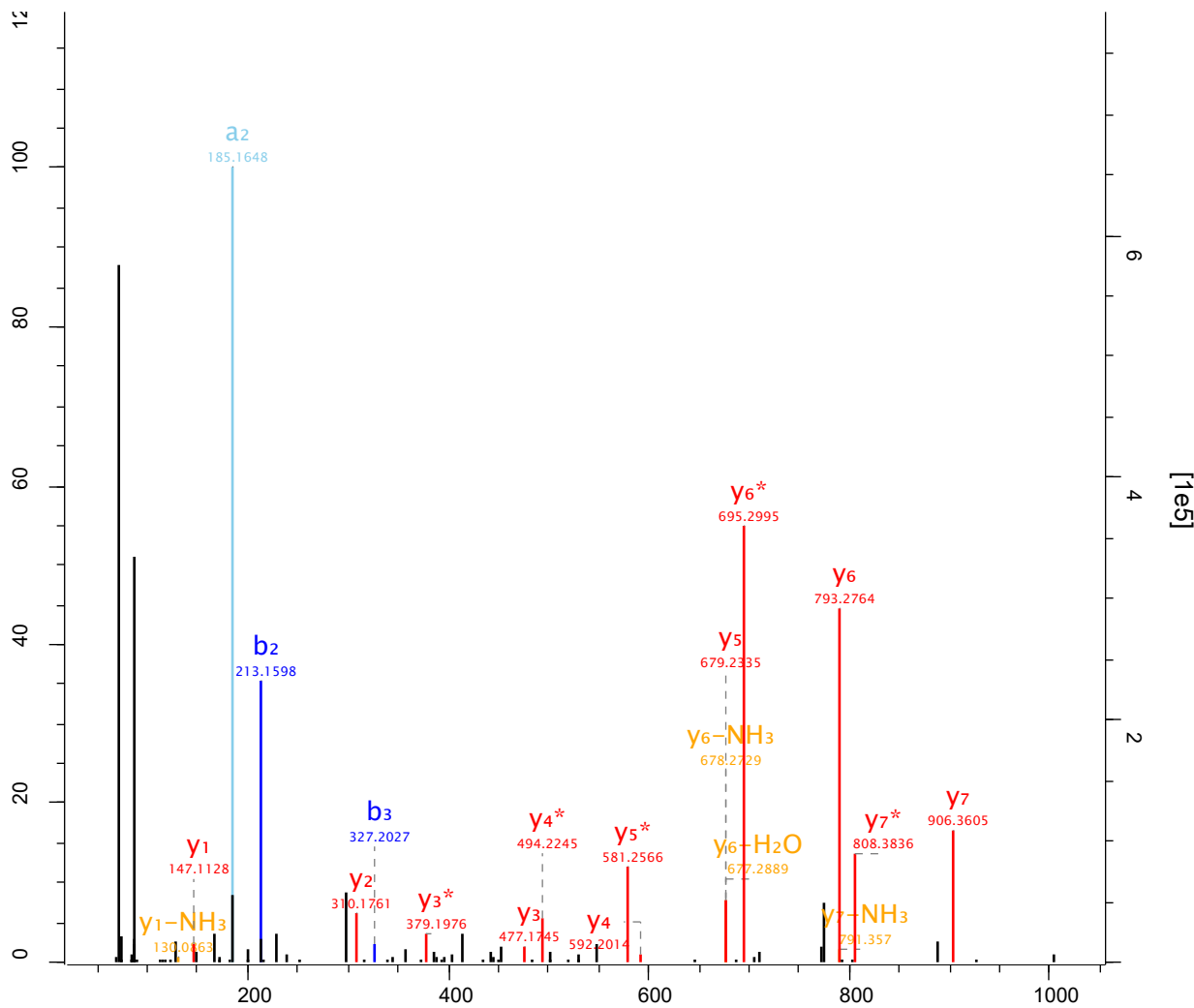
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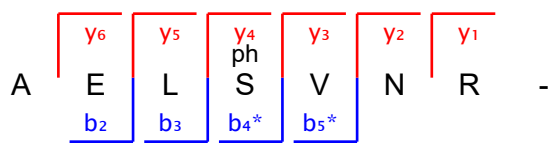
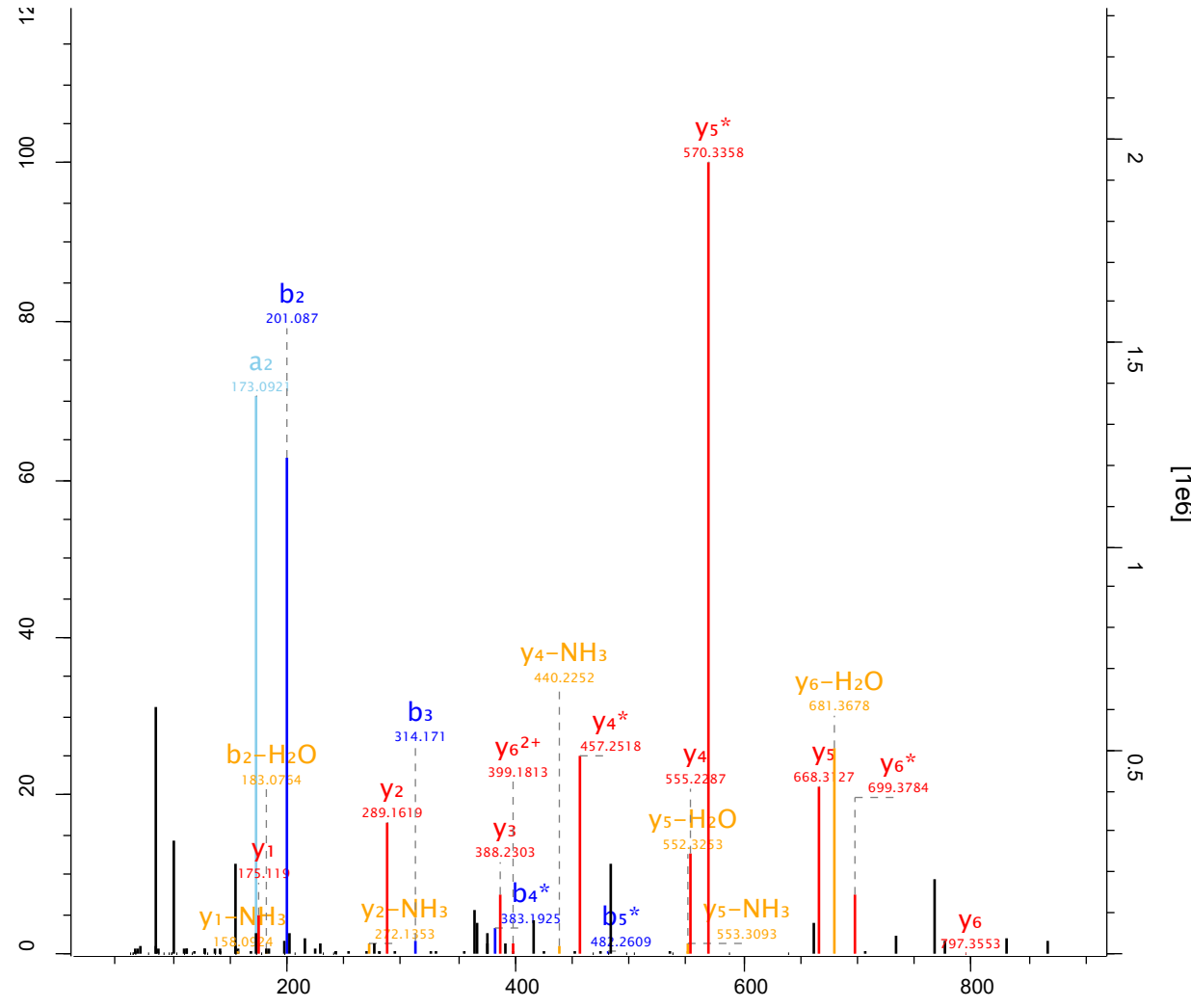
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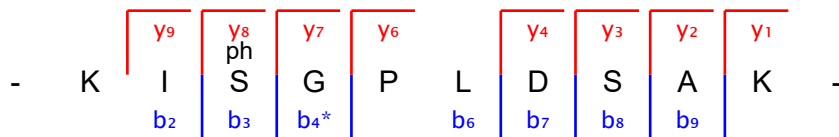
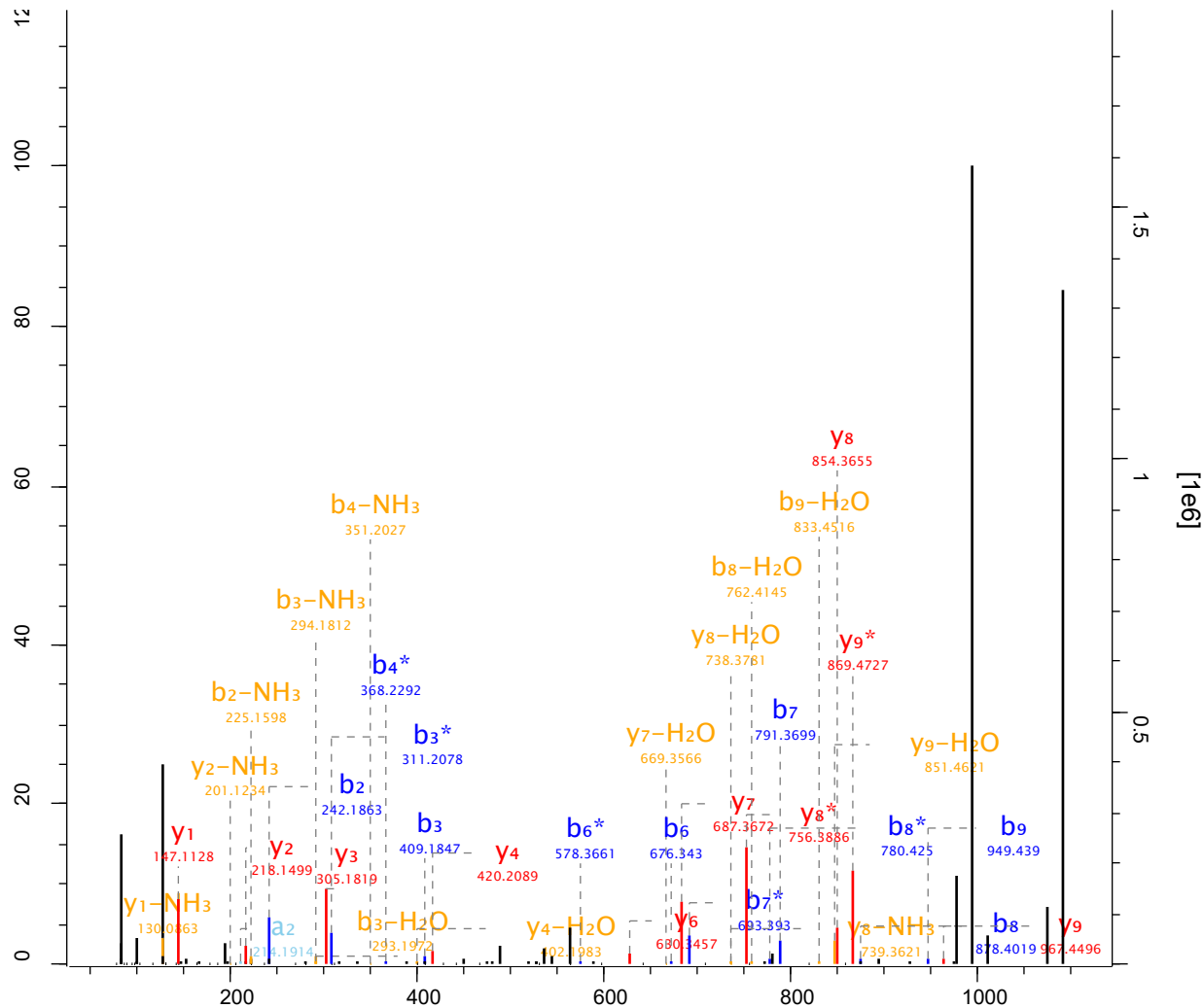
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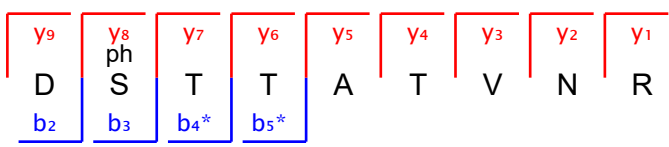
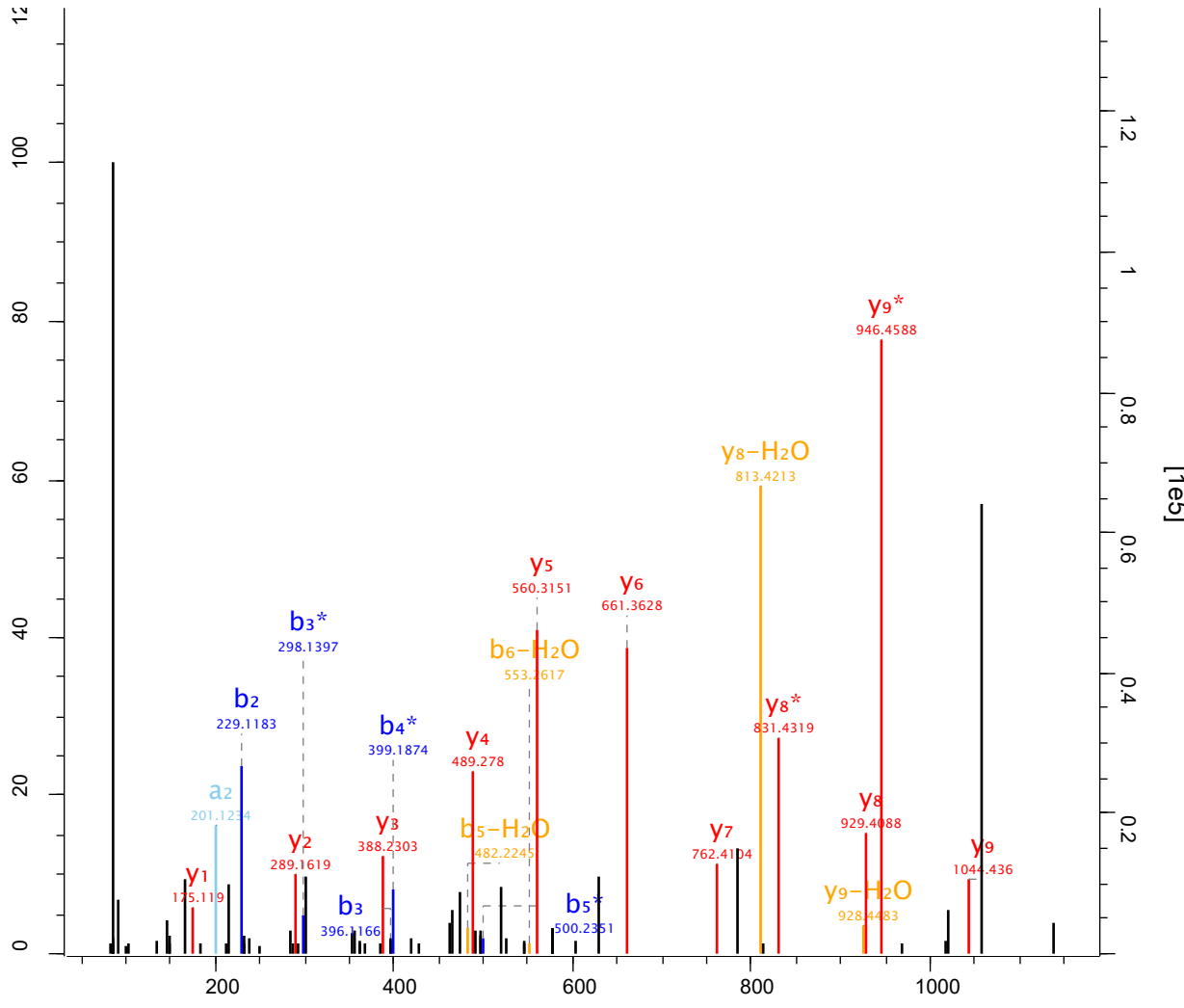
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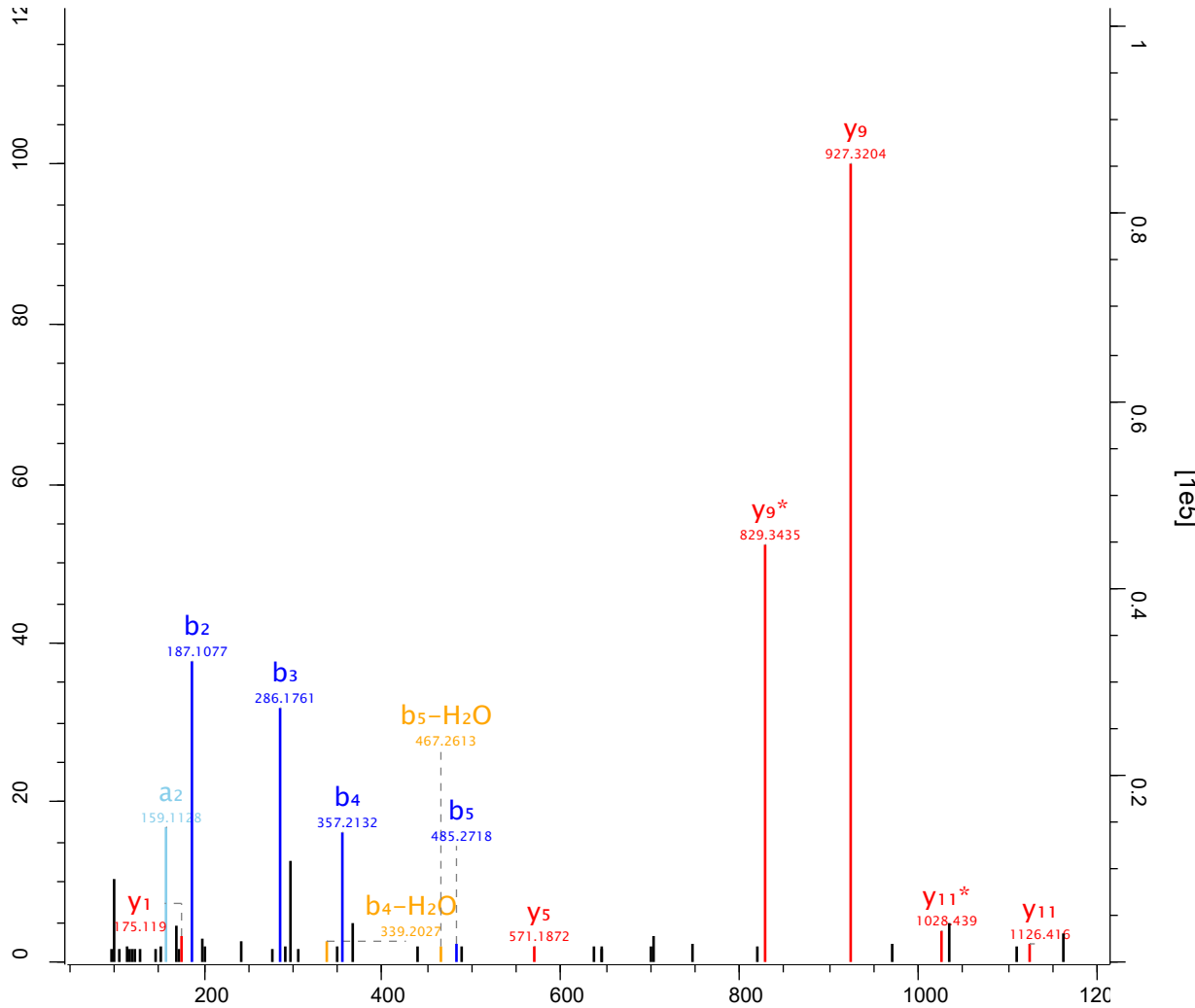
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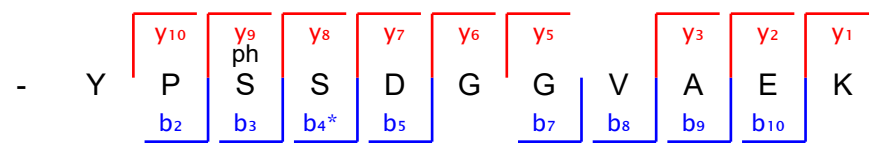
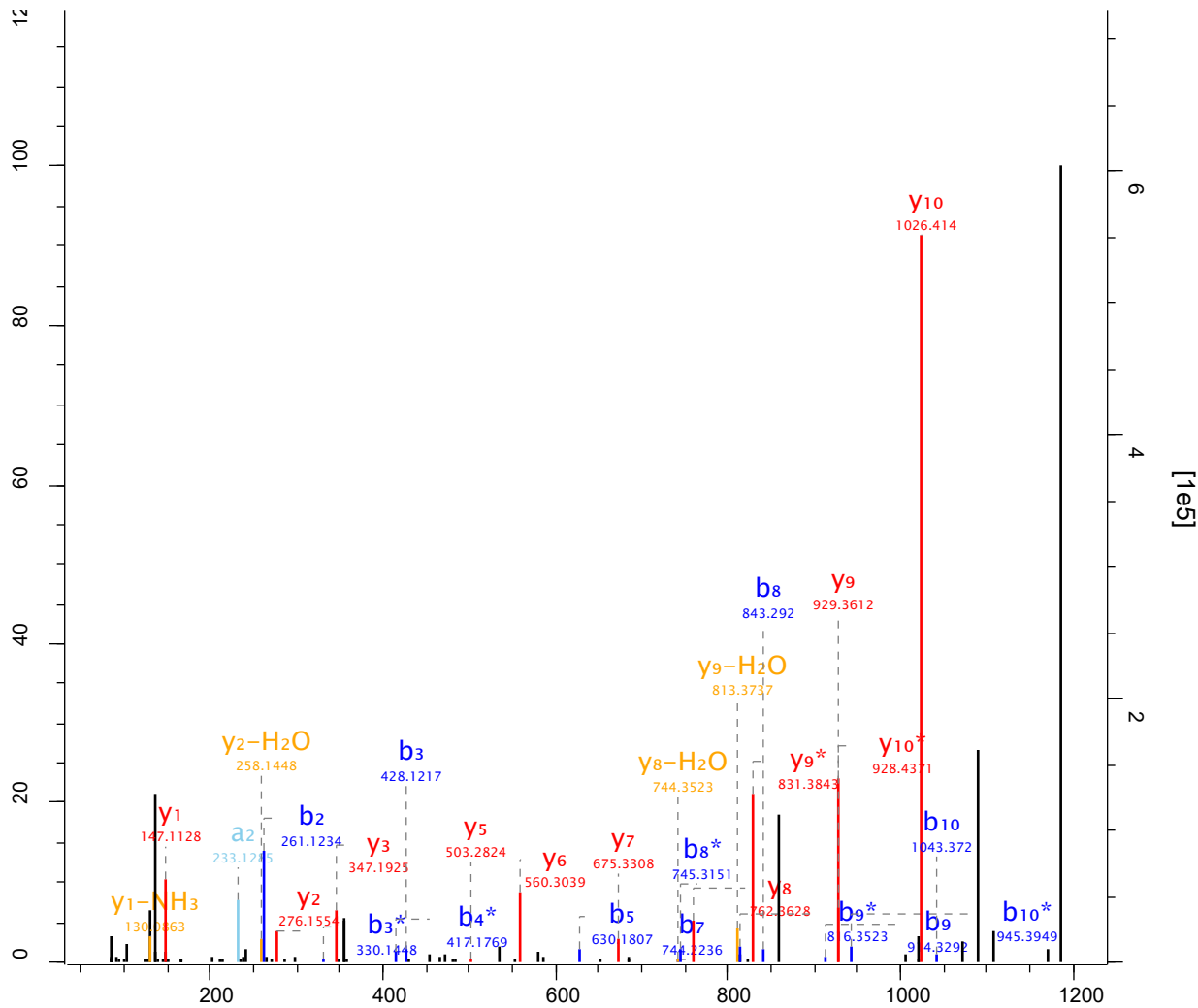
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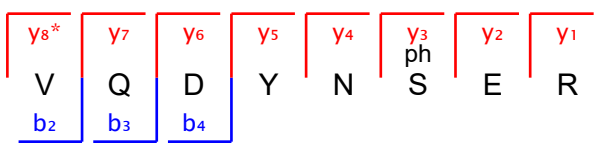
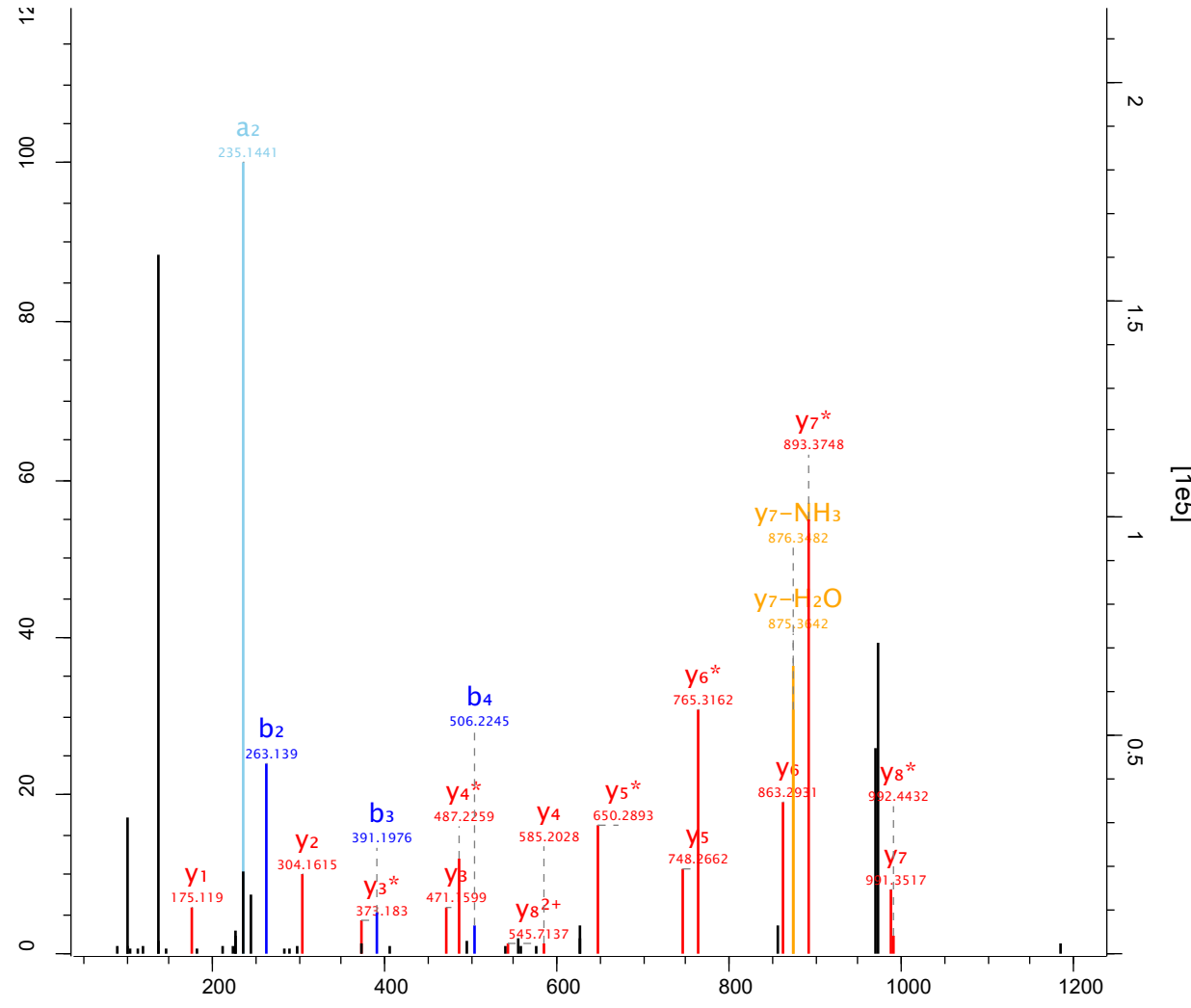
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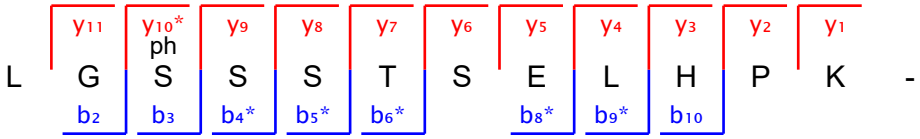
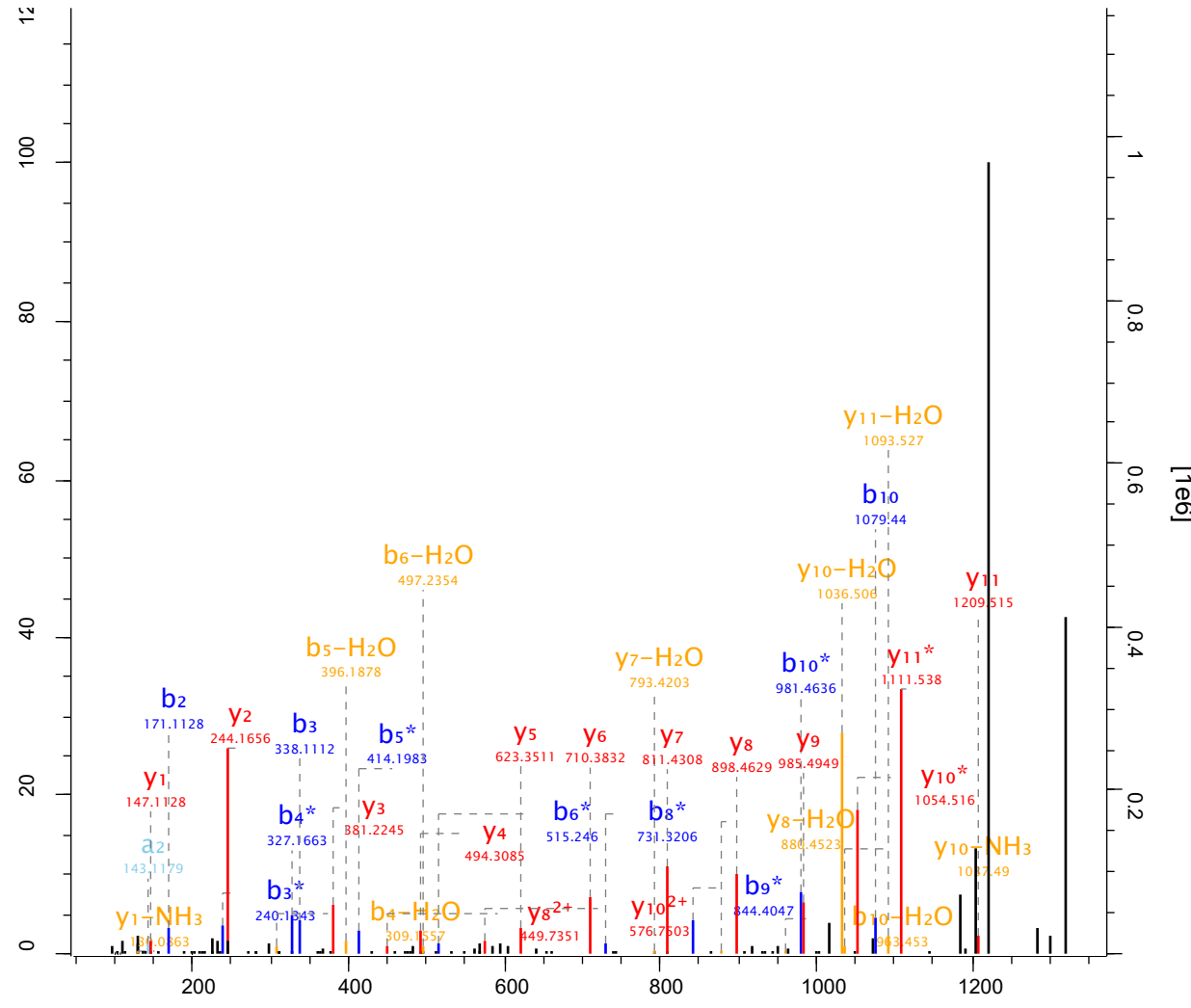
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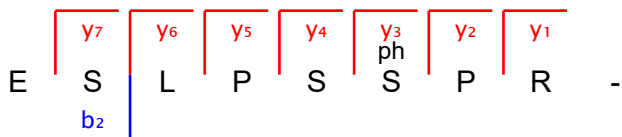
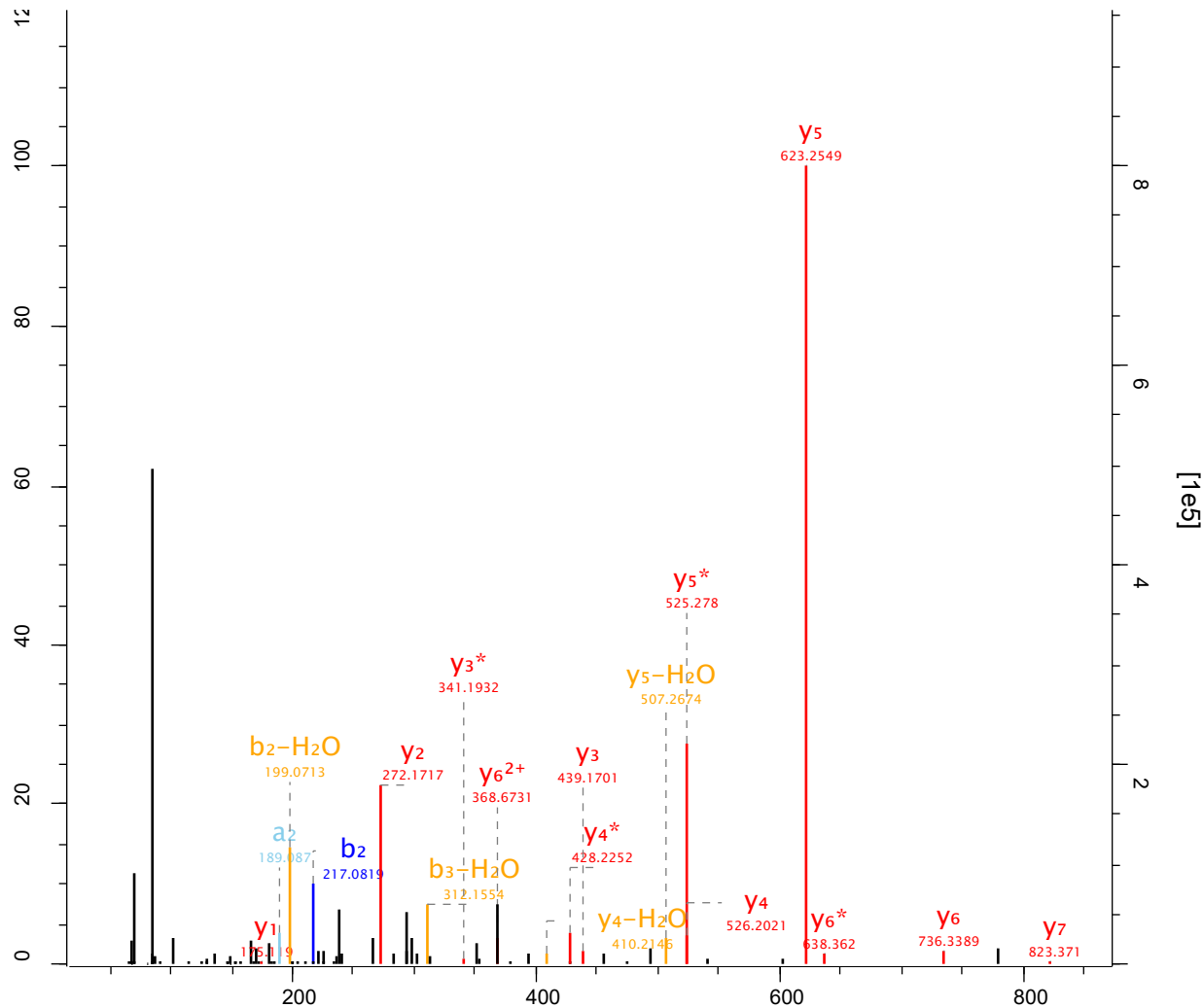
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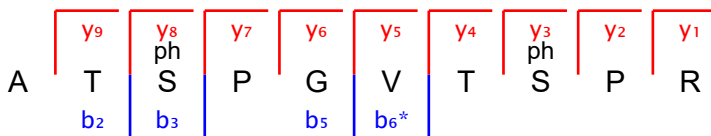
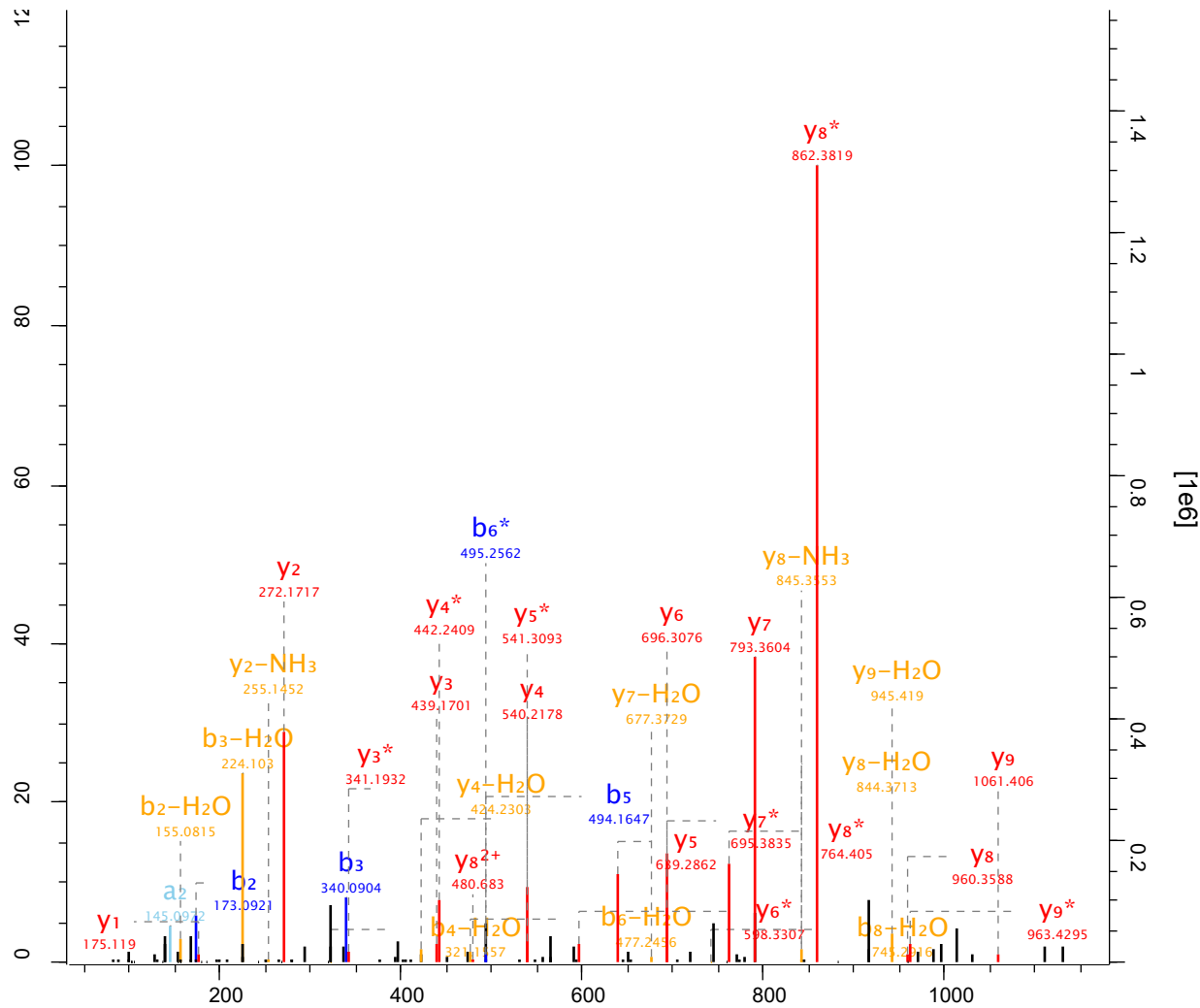
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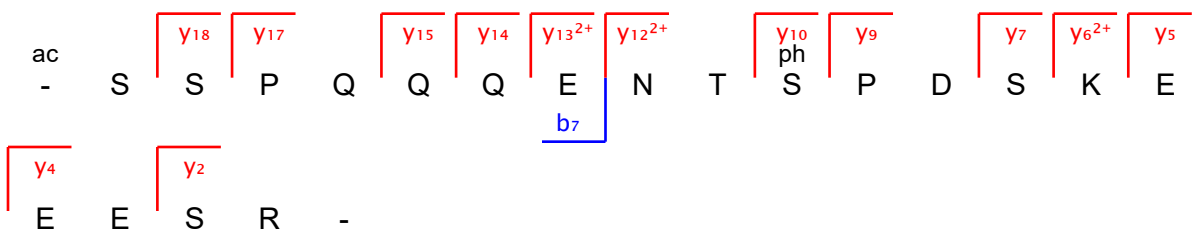
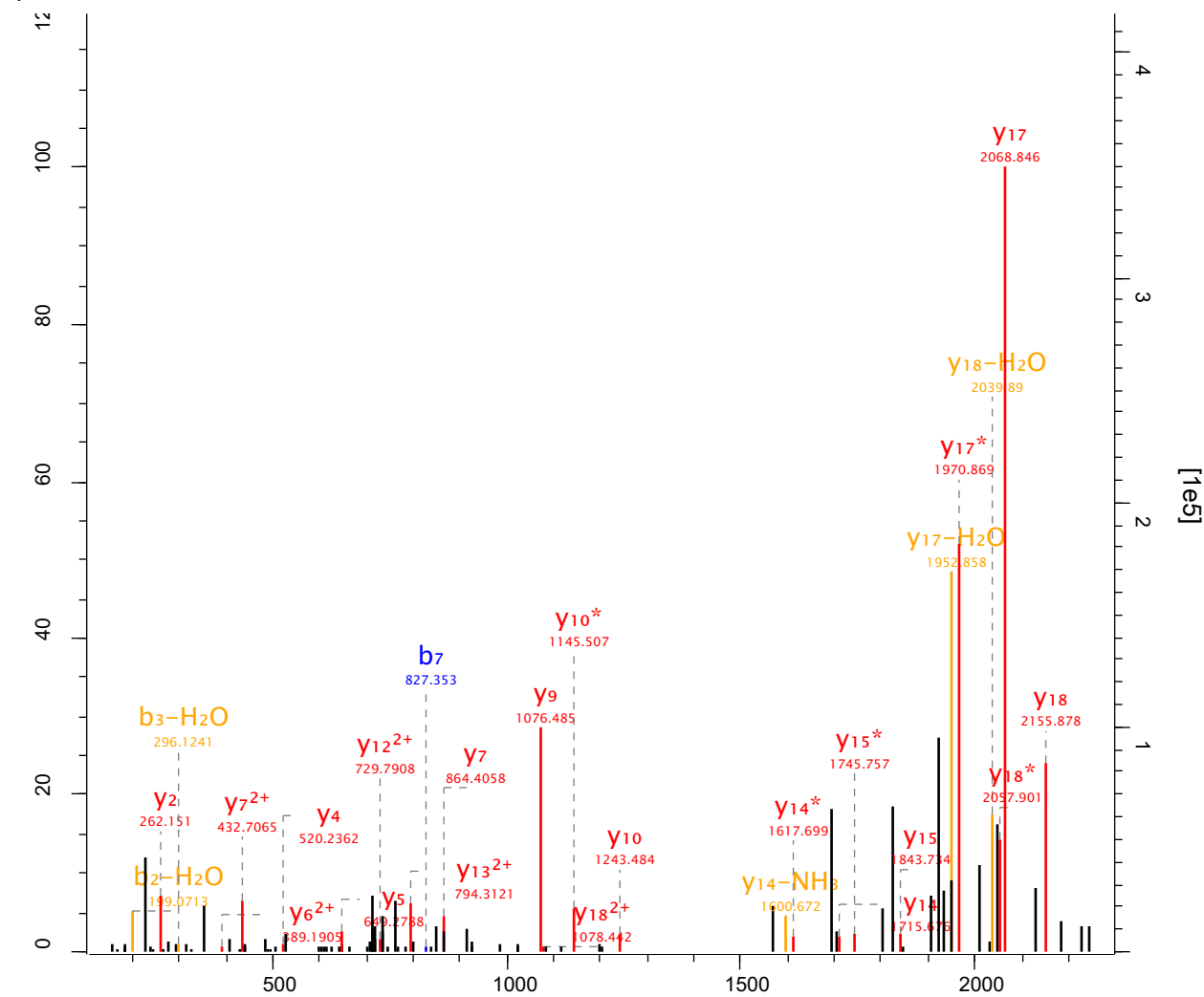
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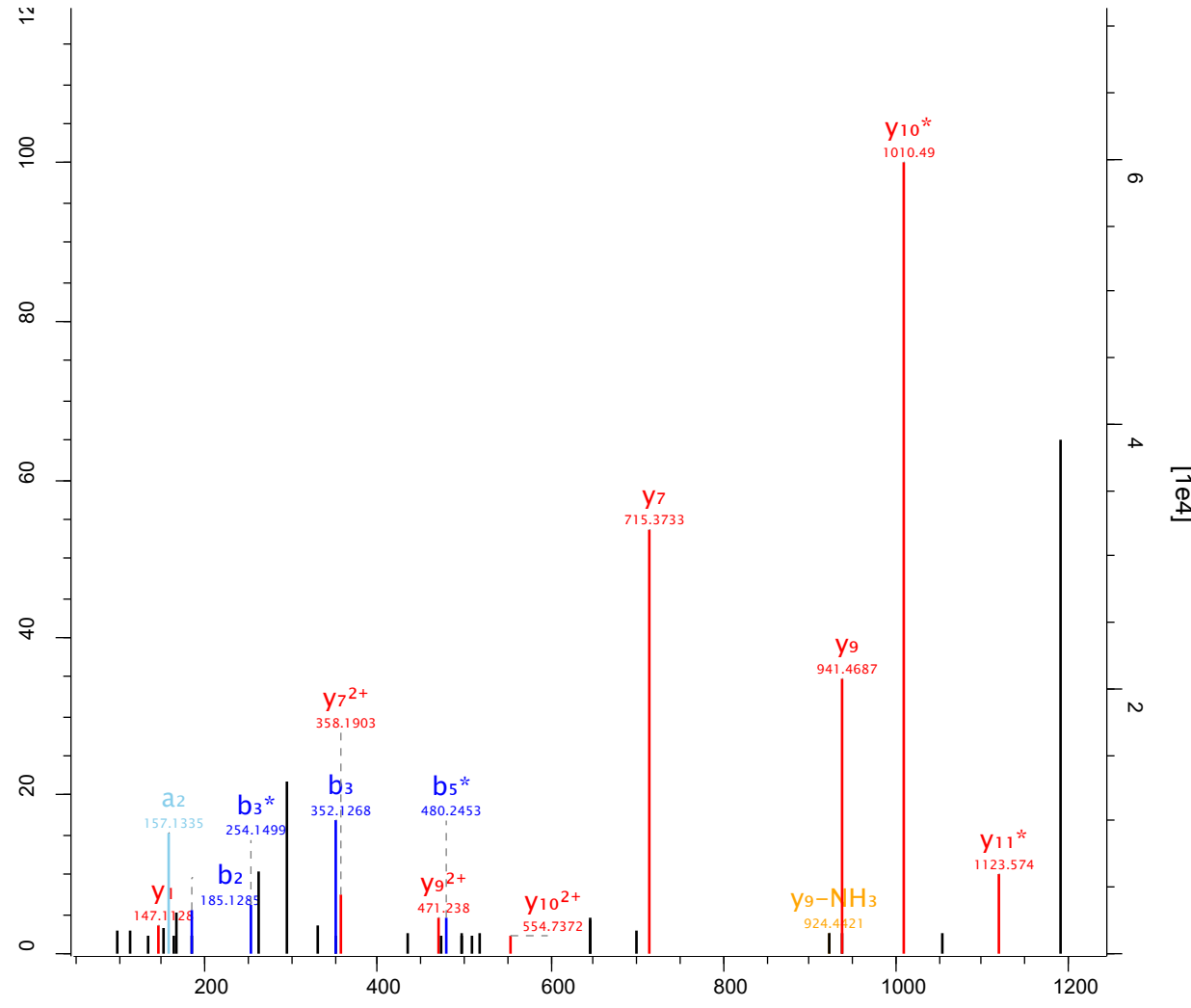
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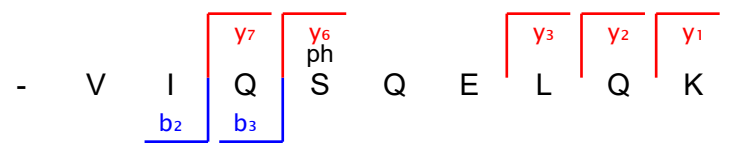
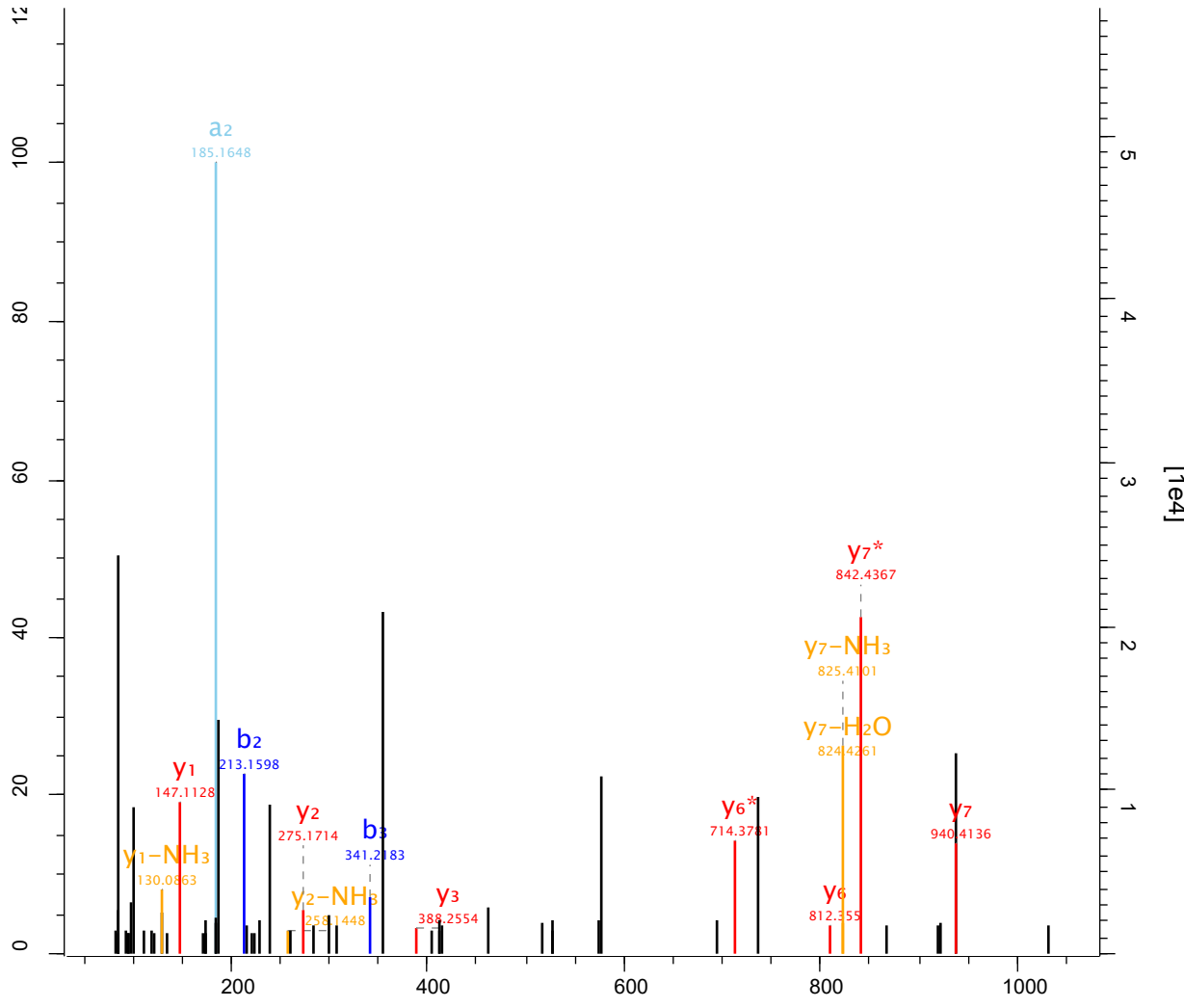
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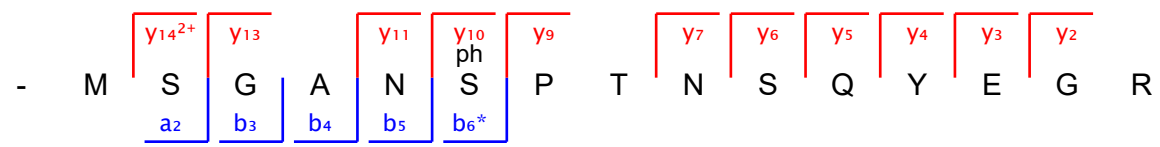
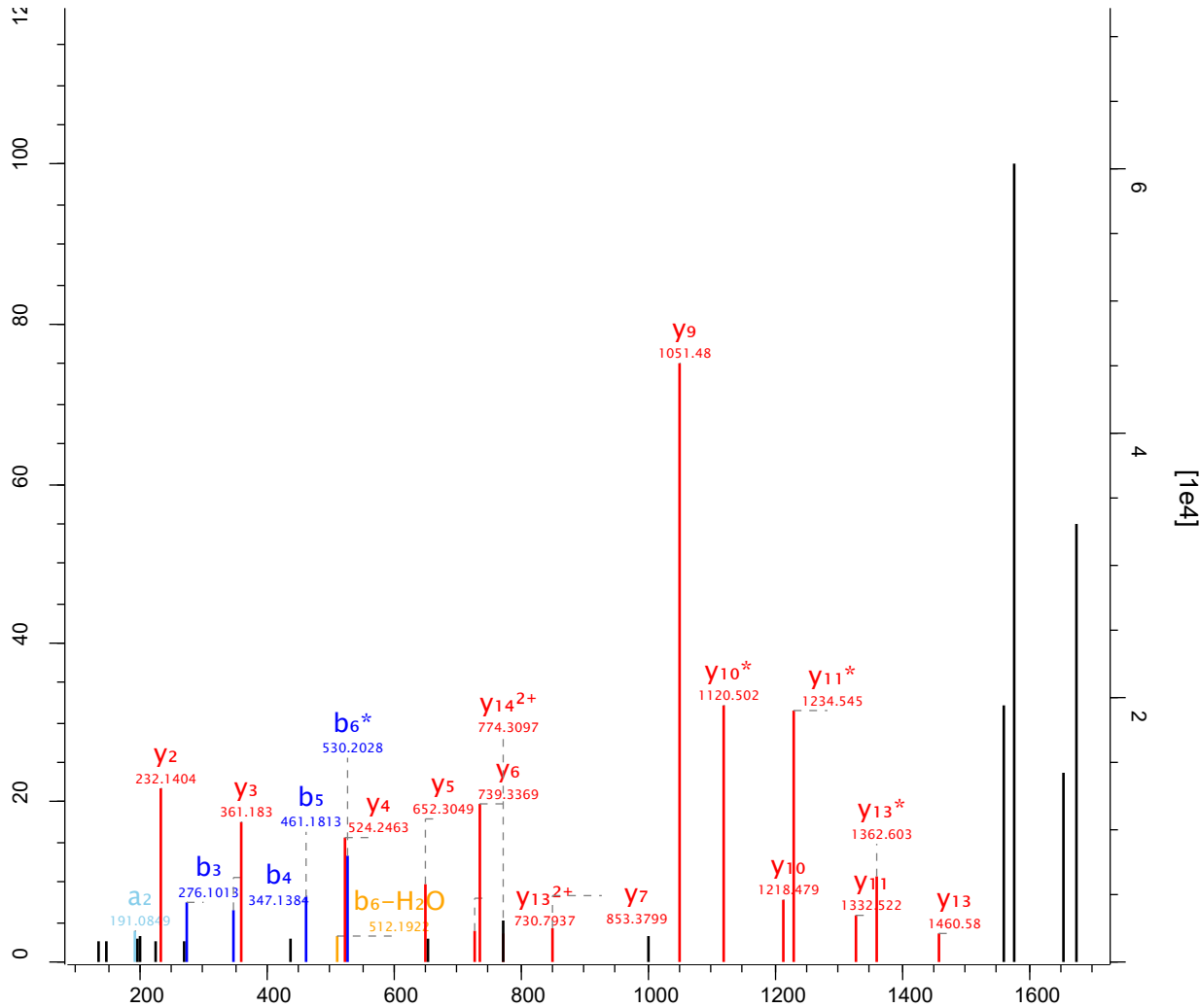
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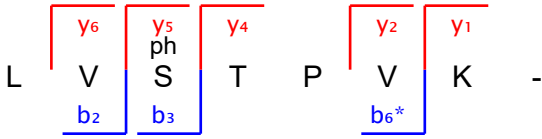
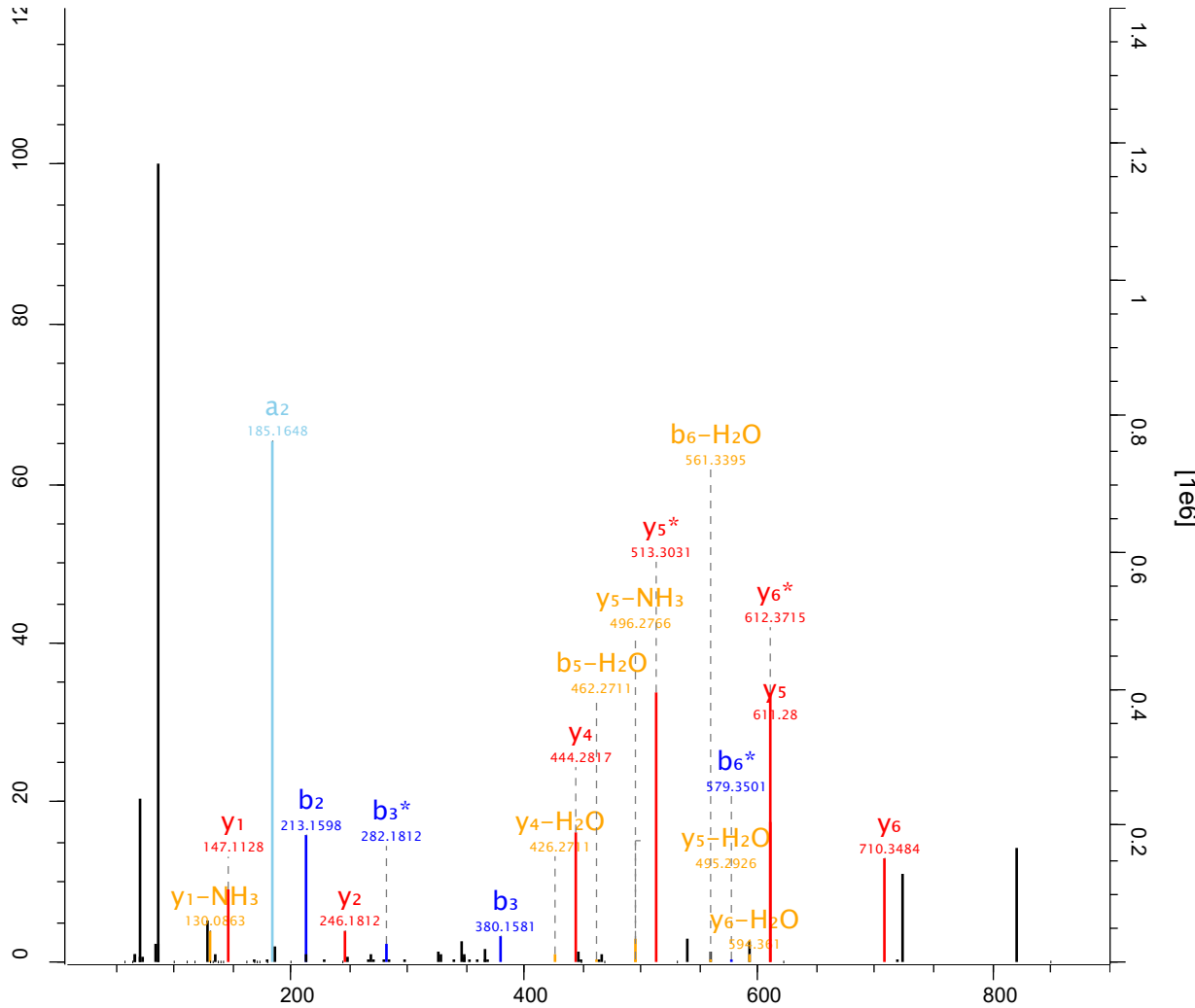
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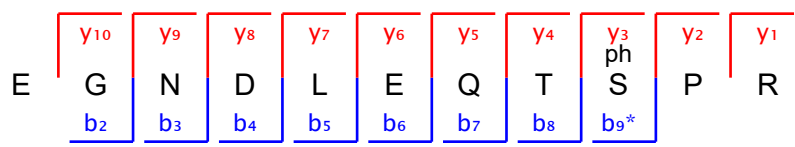
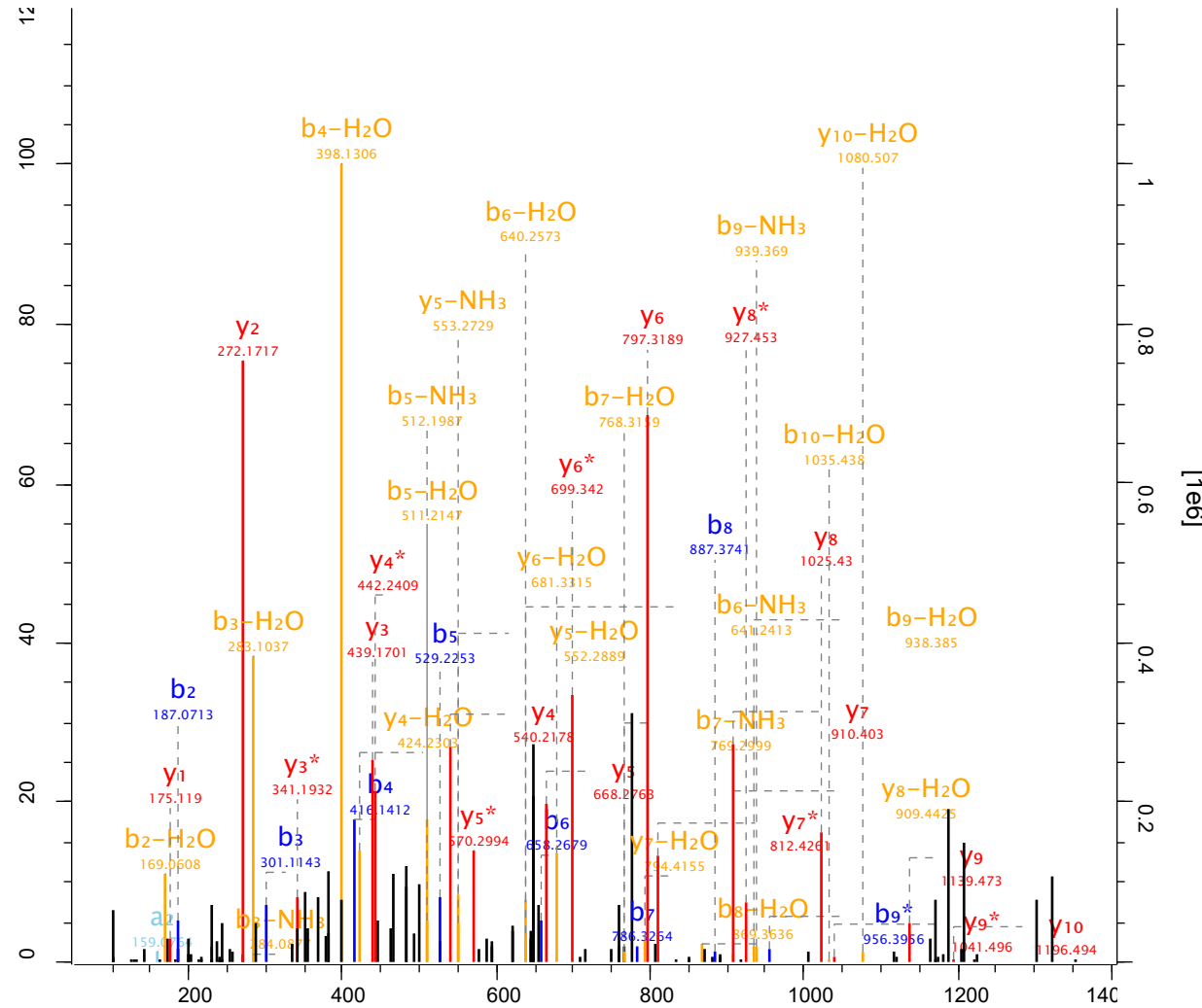
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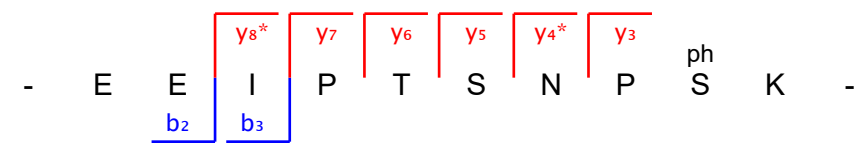
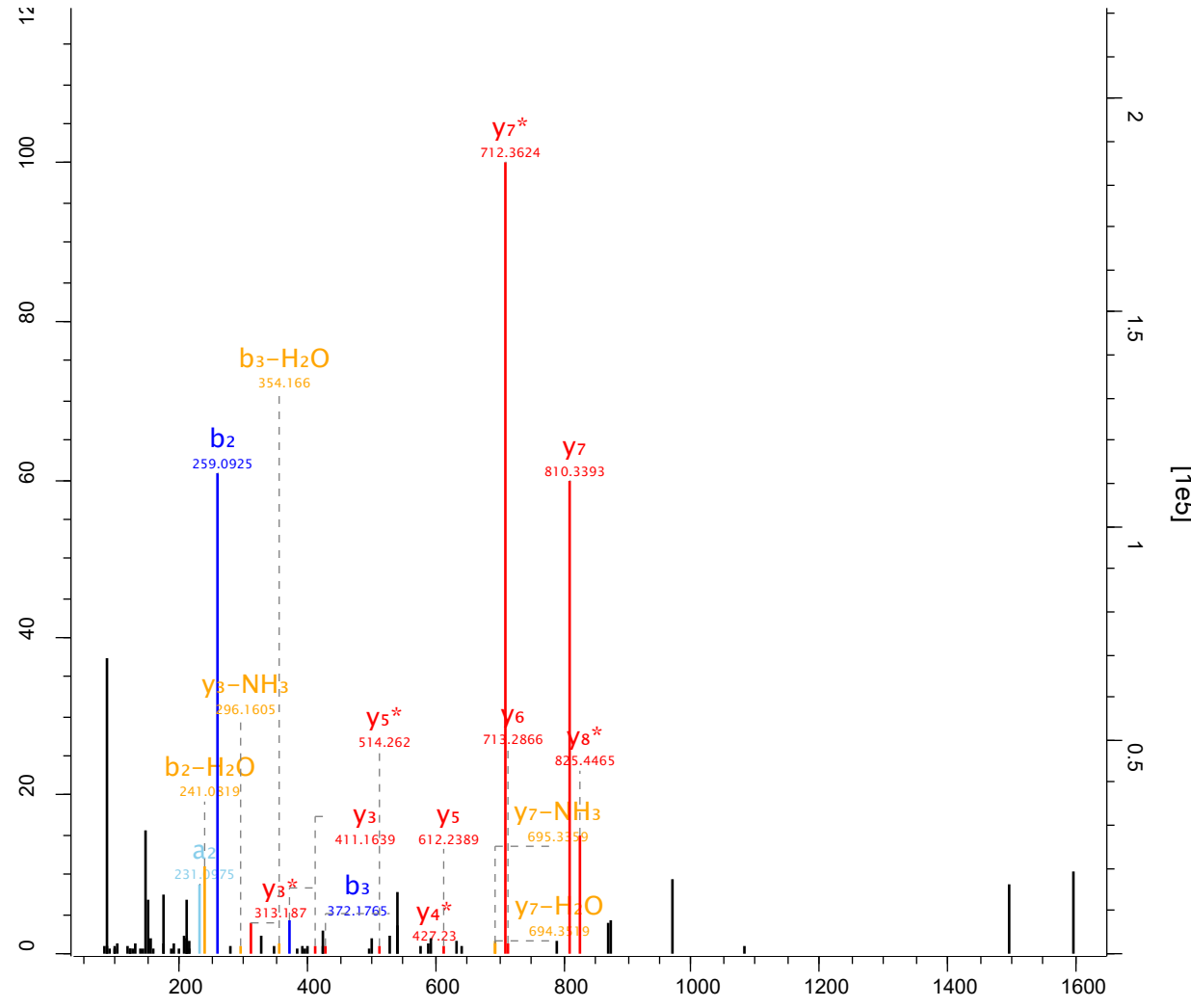
Raw file Scan Method Score m/z
 sys_05_2 7373 FTMS; HCD 116.37 412.22



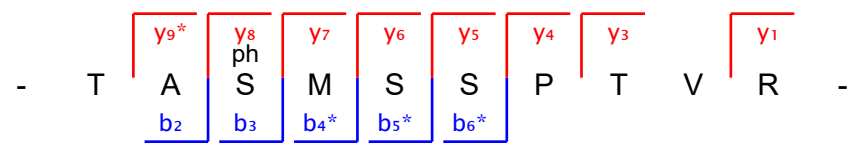
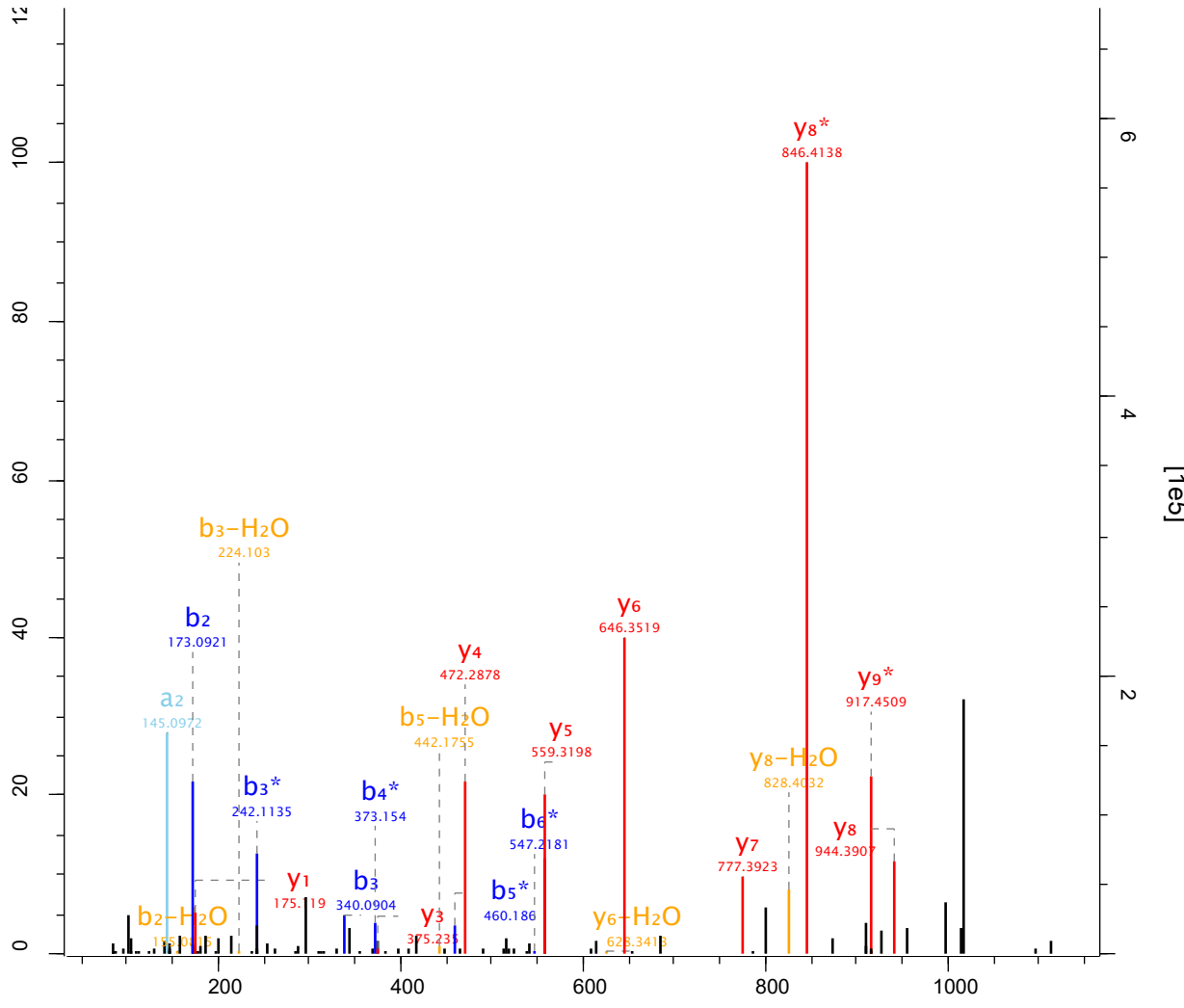
Raw file Scan Method Score m/z
 sys_05_2 7474 FTMS; HCD 280.5 663.27



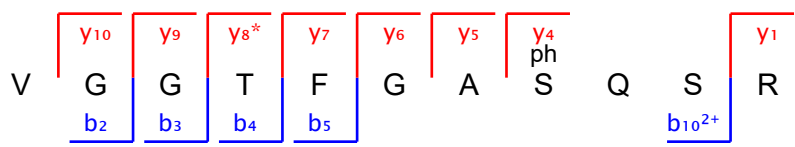
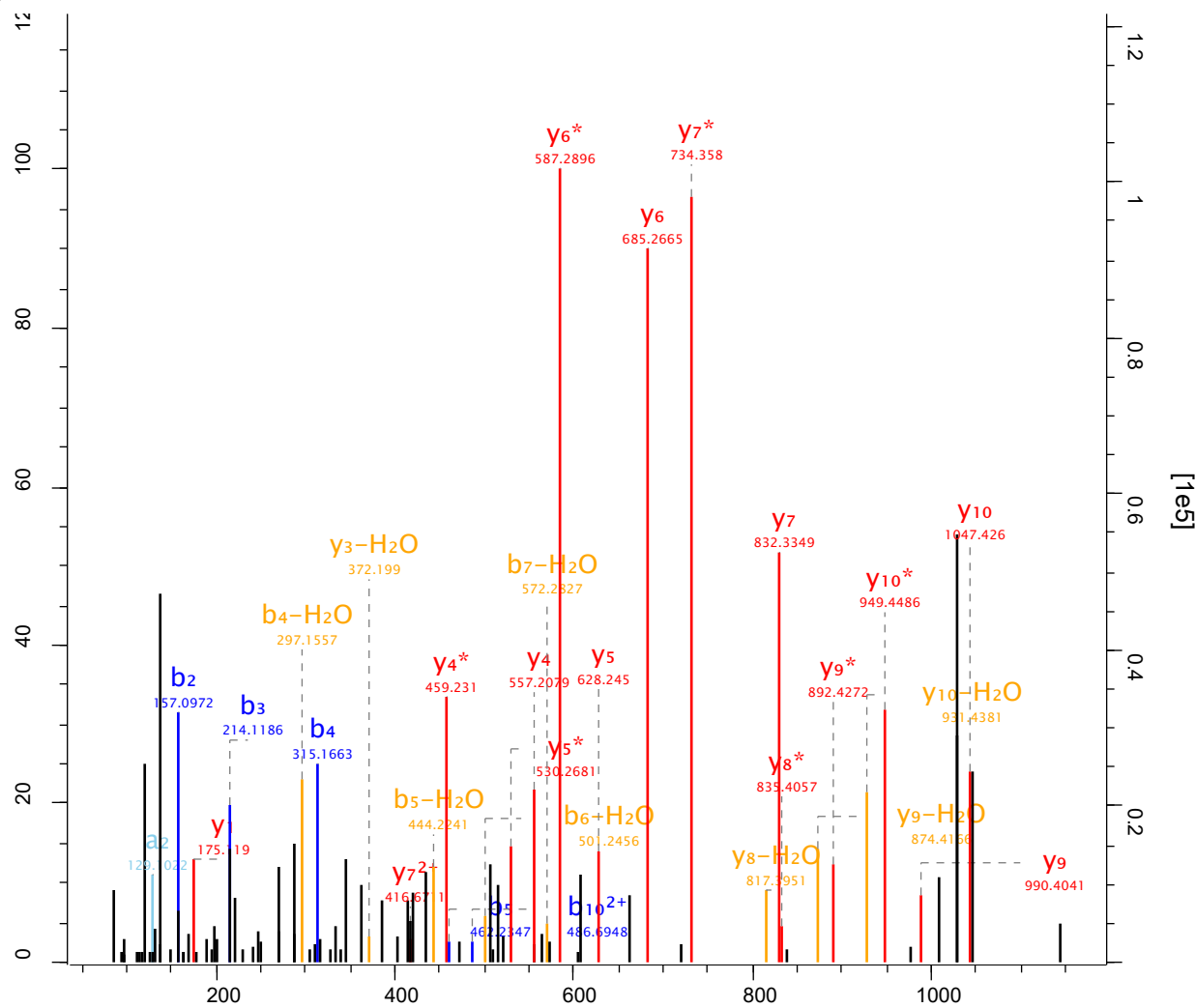
Raw file Scan Method Score m/z
 sys_05_2 7489 FTMS; HCD 69.23 591.26



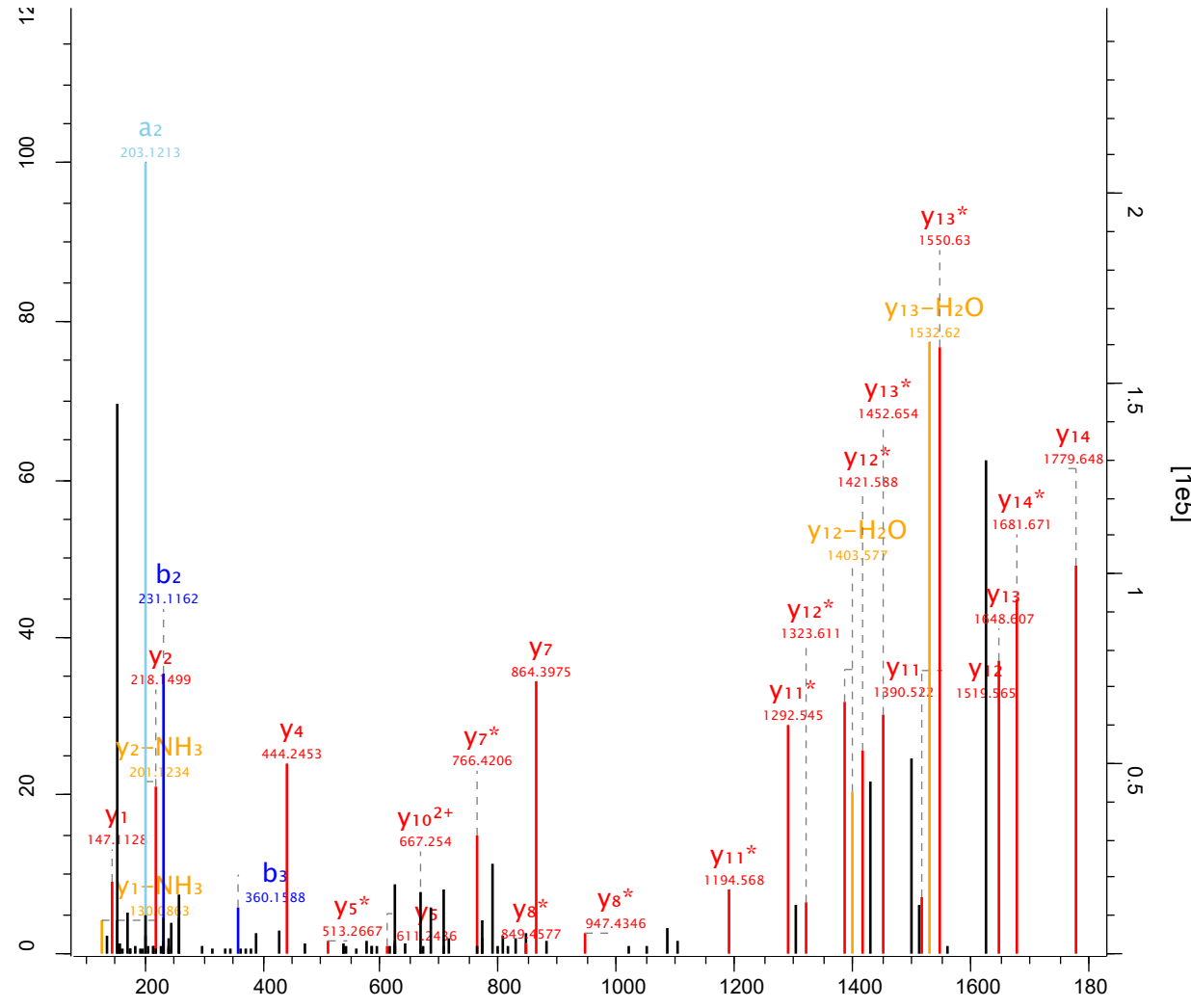
Raw file Scan Method Score m/z
 sys_05_2 7502 FTMS; HCD 82.07 558.74



Raw file Scan Method Score m/z
 sys_05_2 7587 FTMS; HCD 109.1 573.75

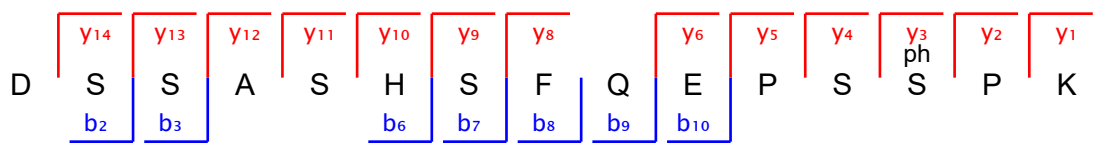
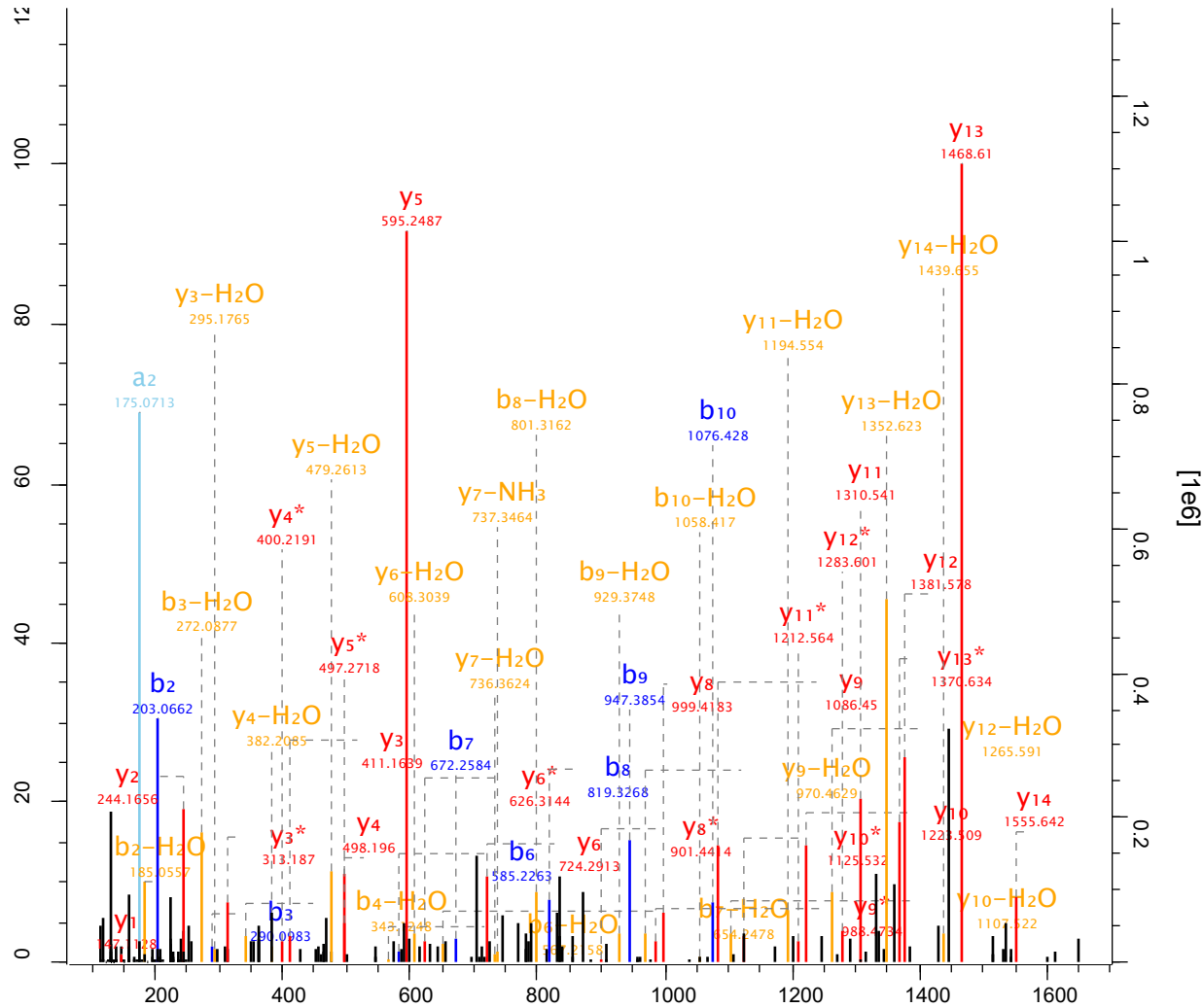


Raw file Scan Method Score m/z
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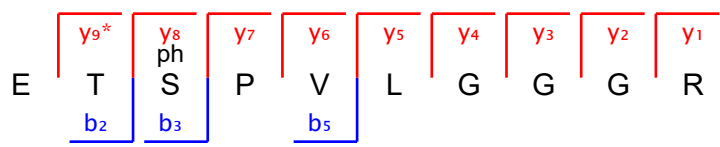
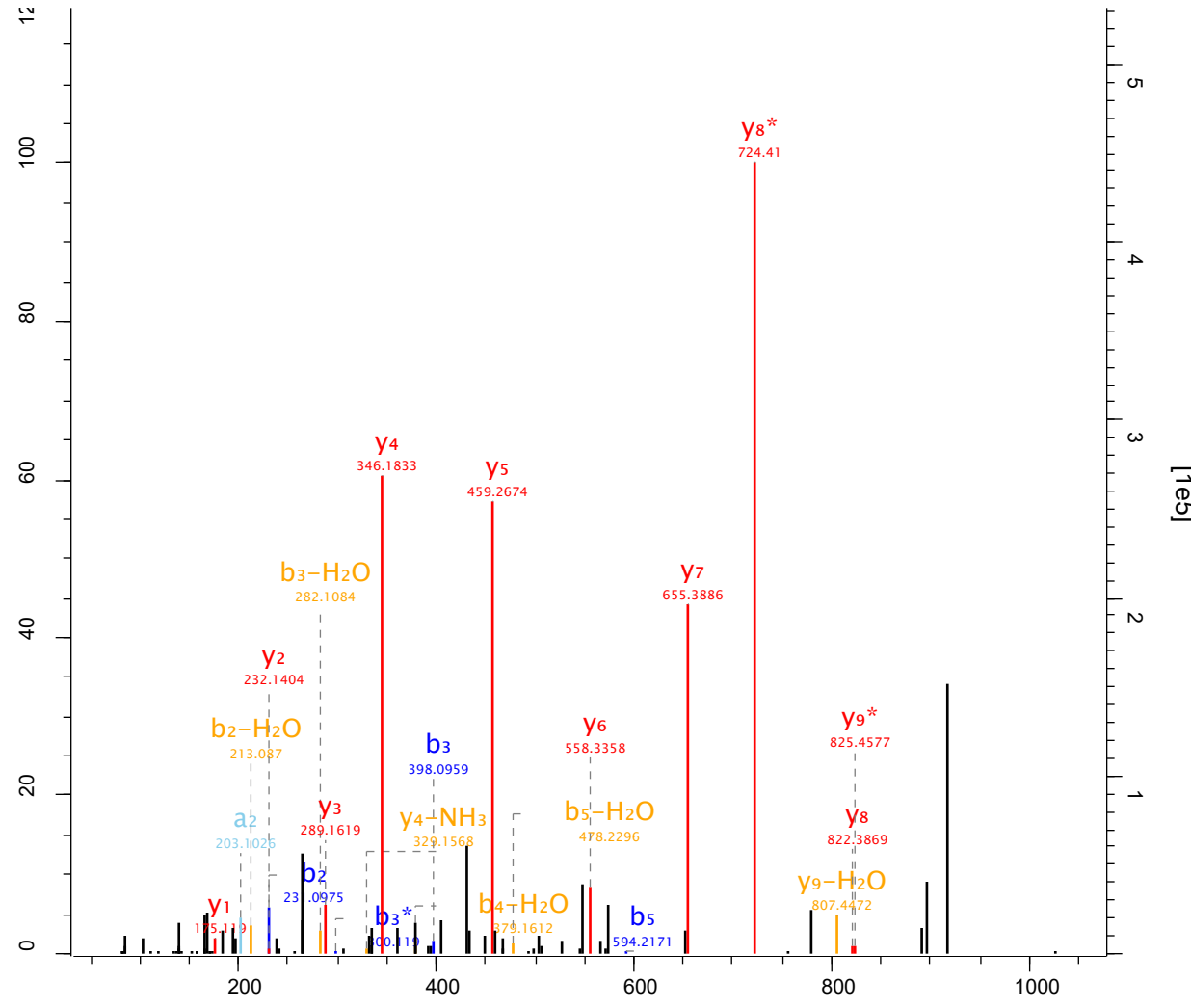


- V M E E G C Q T P R S P E A K
 - b2 b3 y14 y13 y12 y11 y10²⁺ y8* y7 y5 ph y4 y2 y1

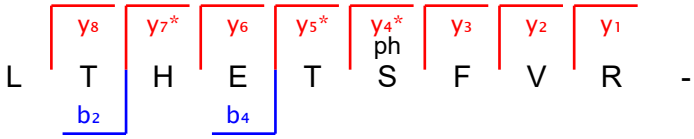
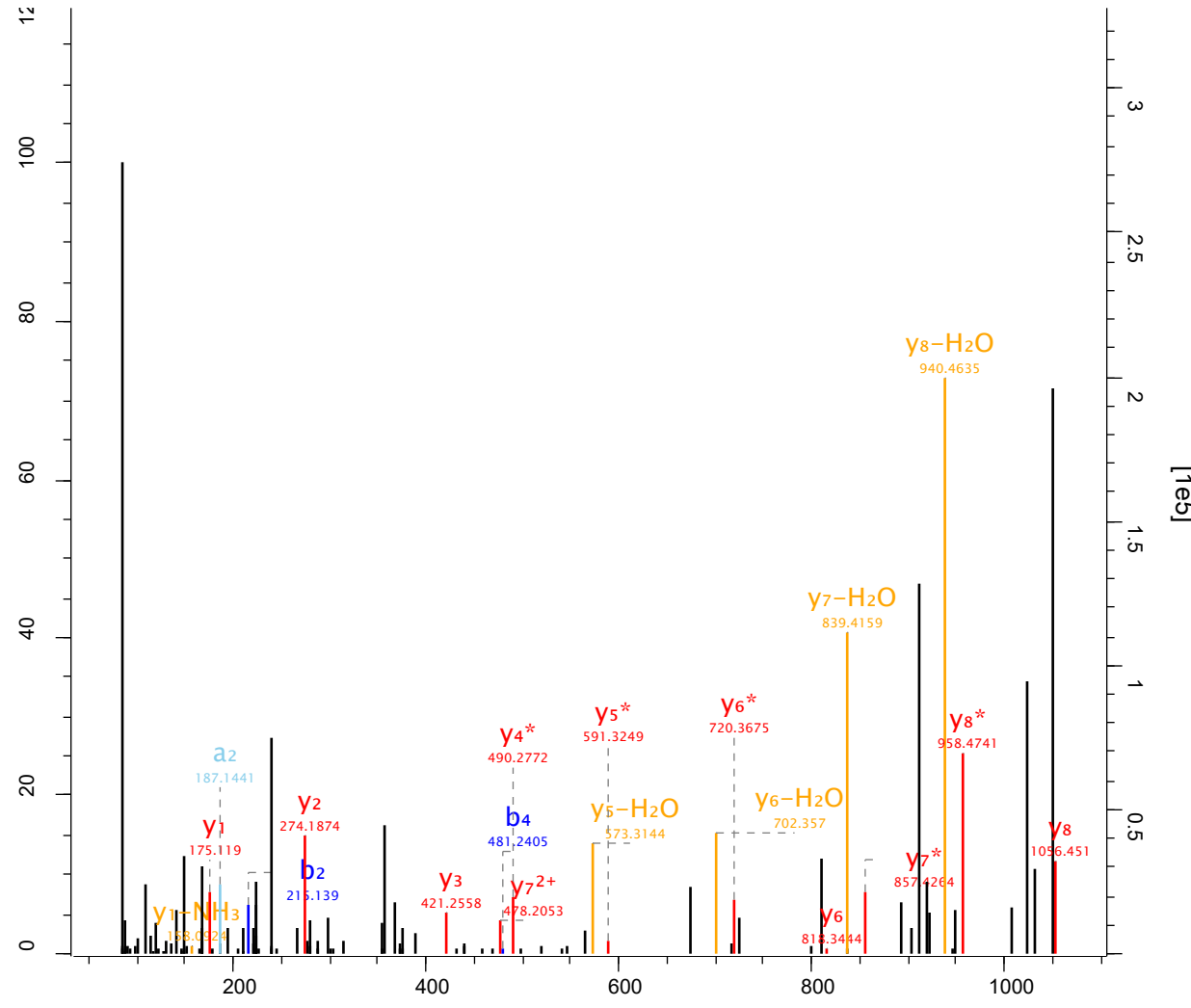
Raw file Scan Method Score m/z
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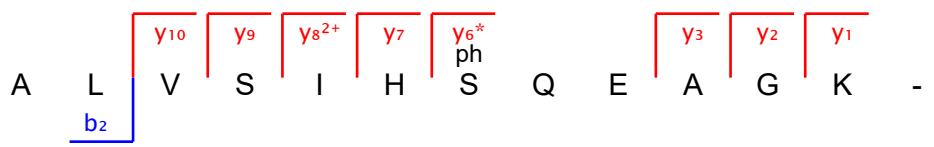
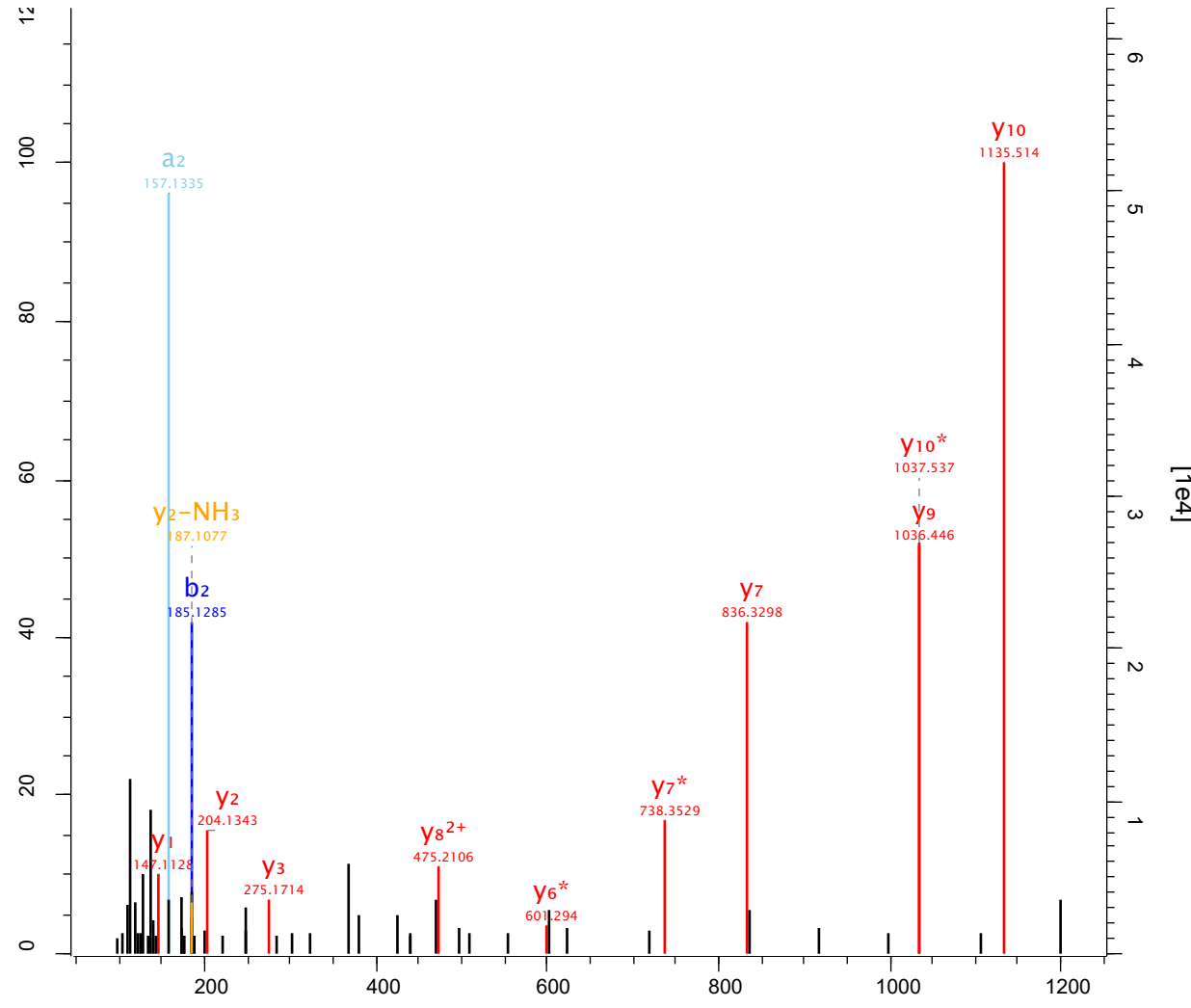
Raw file Scan Method Score m/z
 sys_05_2 7769 FTMS; HCD 66.02 526.74



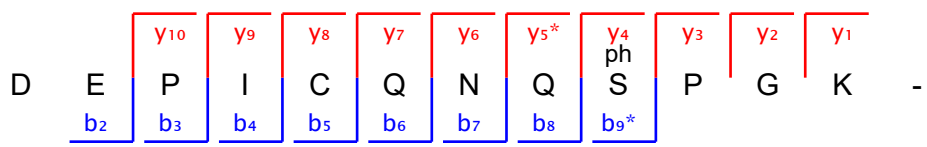
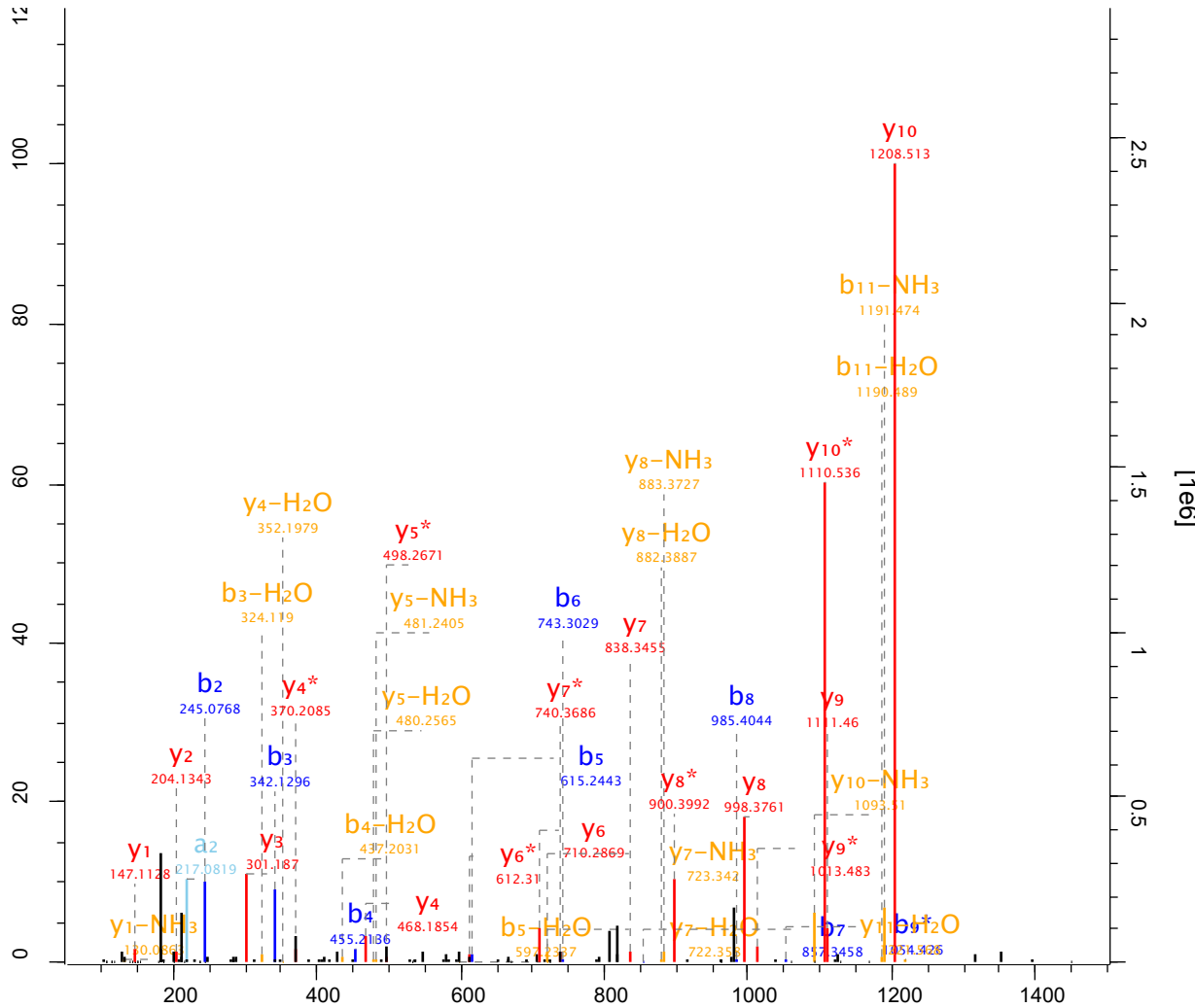
Raw file Scan Method Score m/z
 sys_05_2 7897 FTMS; HCD 97.16 390.52



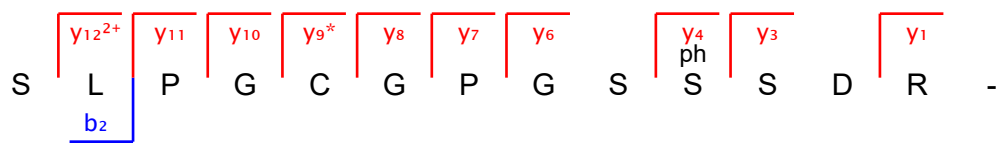
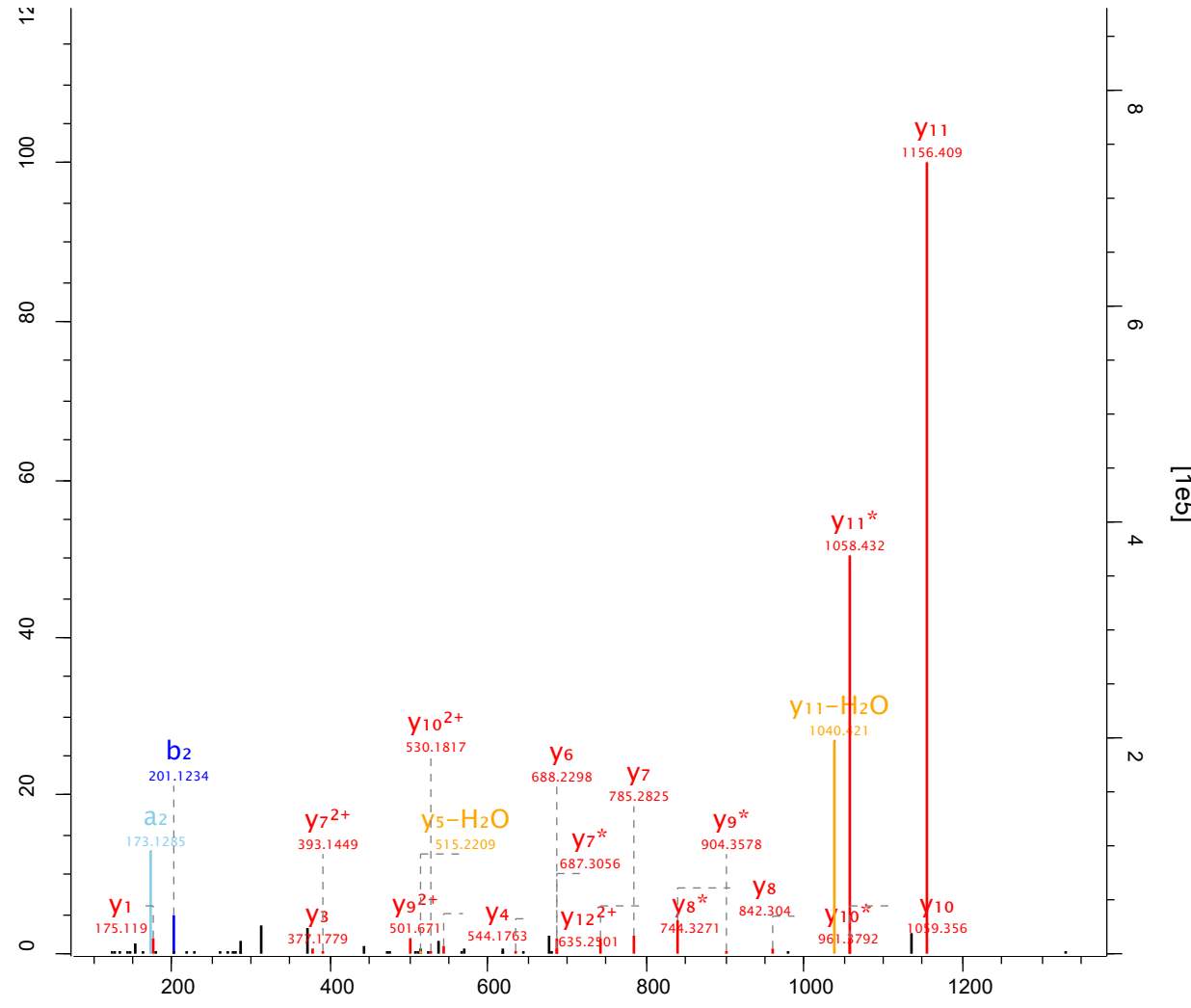
Raw file Scan Method Score m/z
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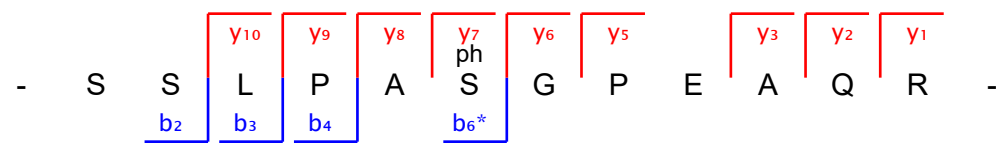
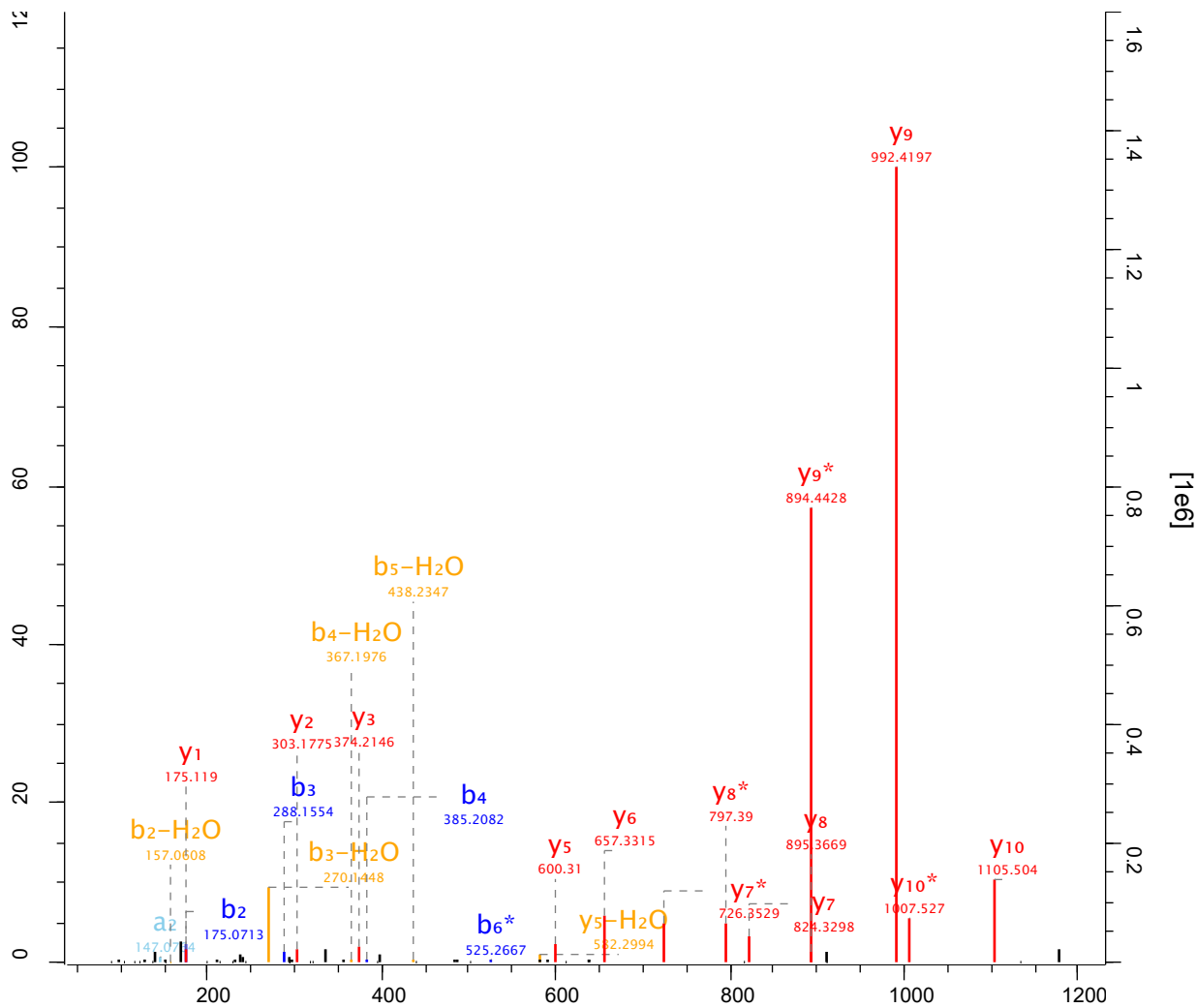
Raw file Scan Method Score m/z
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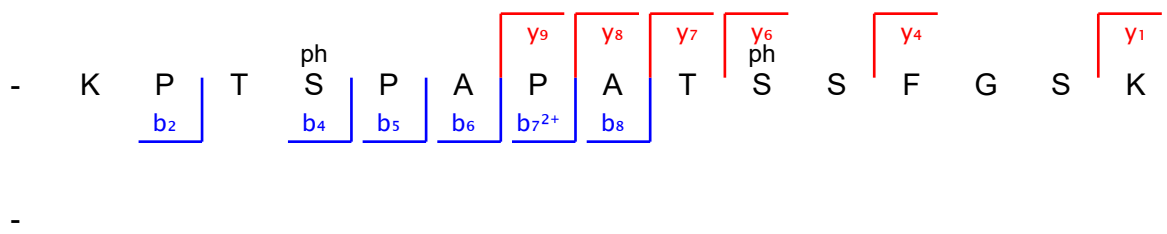
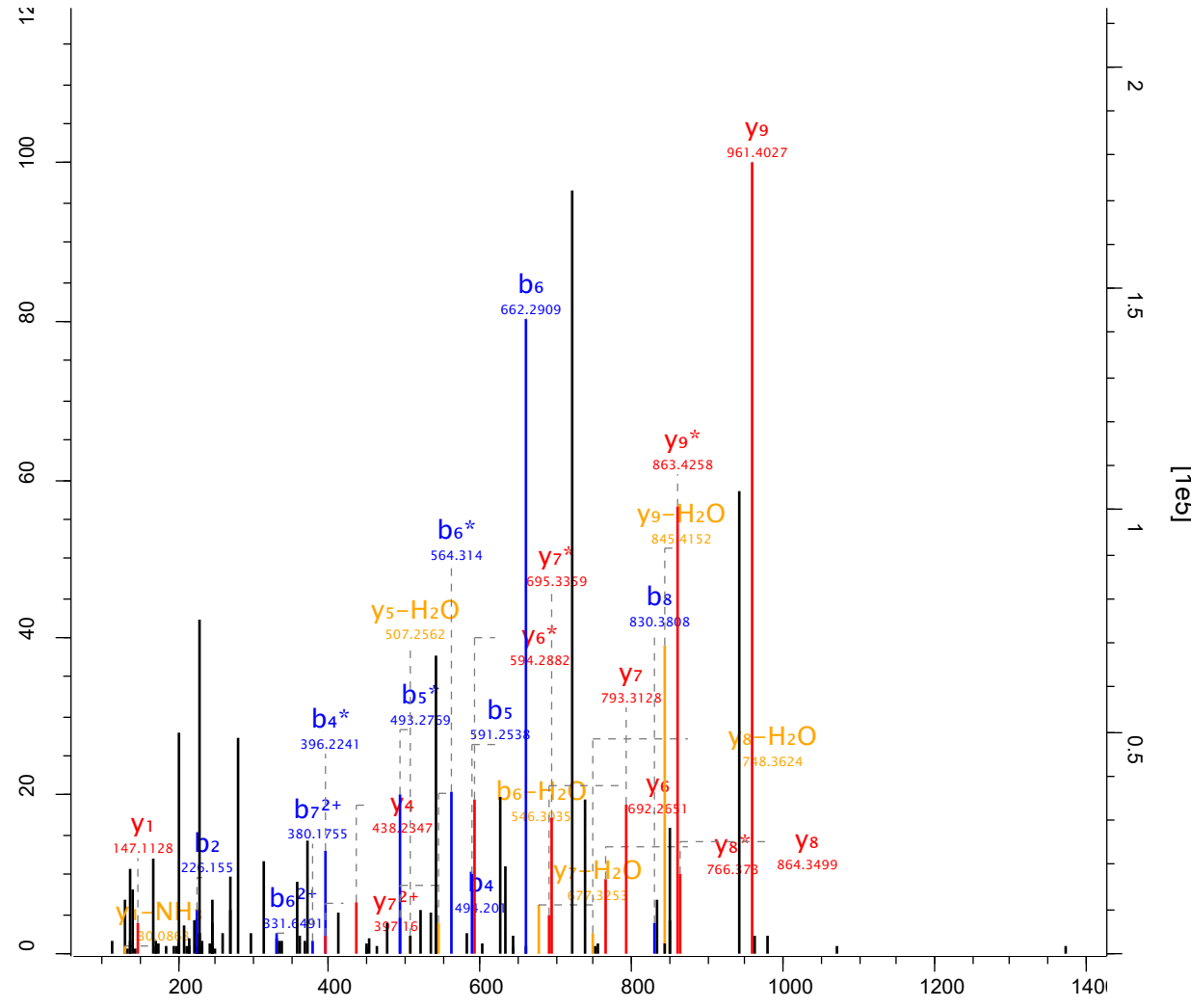
Raw file Scan Method Score m/z
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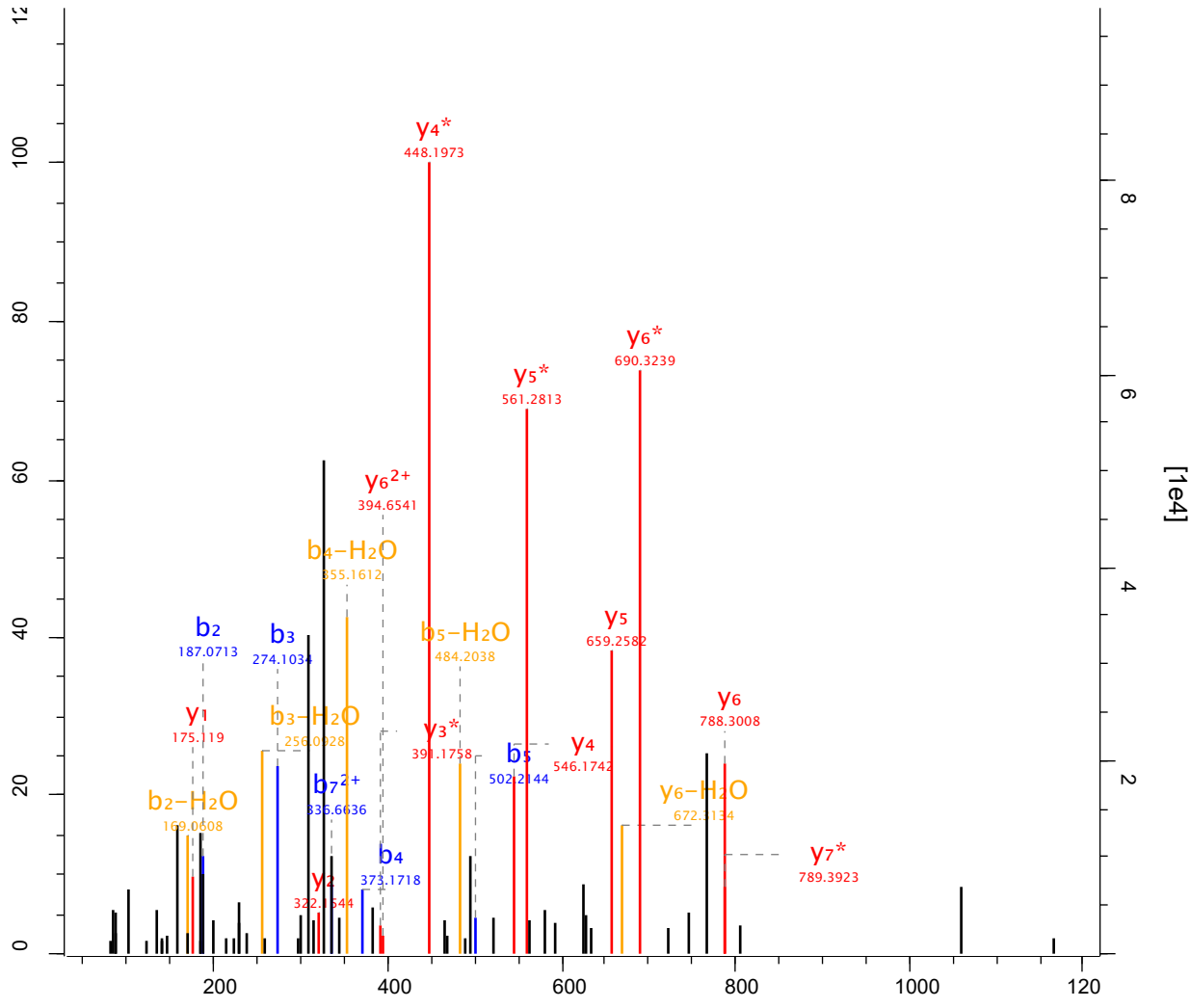
Raw file Scan Method Score m/z
 sys_05_2 8666 FTMS; HCD 103.88 640.29



Raw file Scan Method Score m/z
 sys_05_2 8807 FTMS; HCD 68.16 541.57

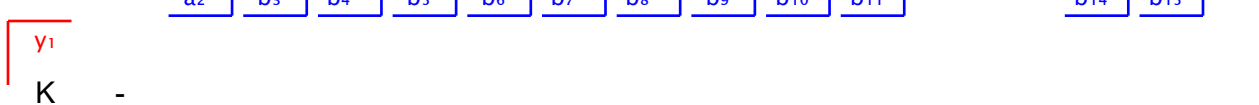
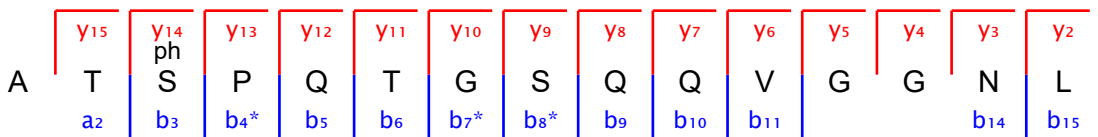
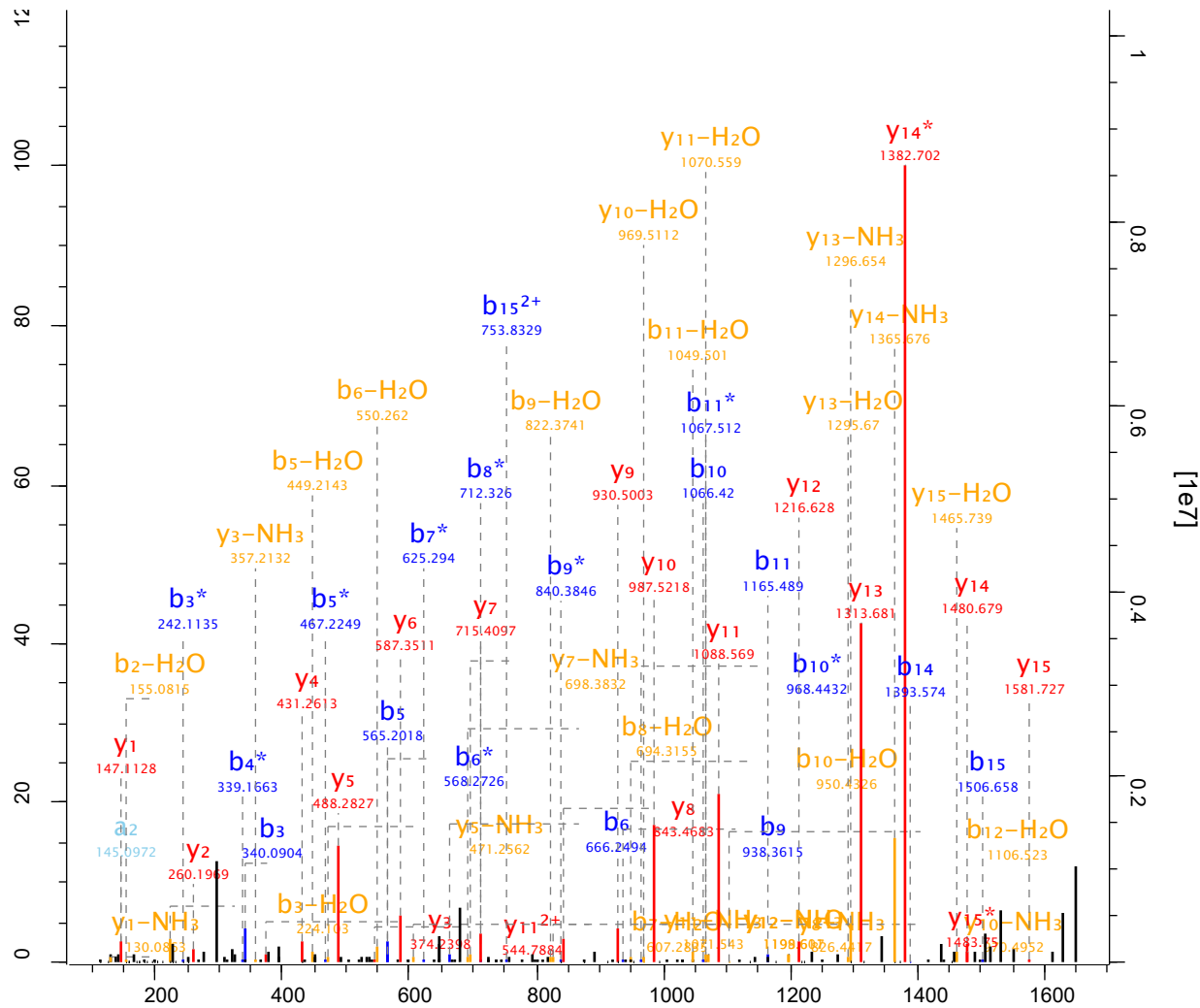


Raw file Scan Method Score m/z
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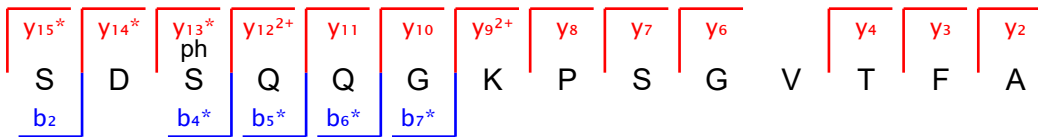
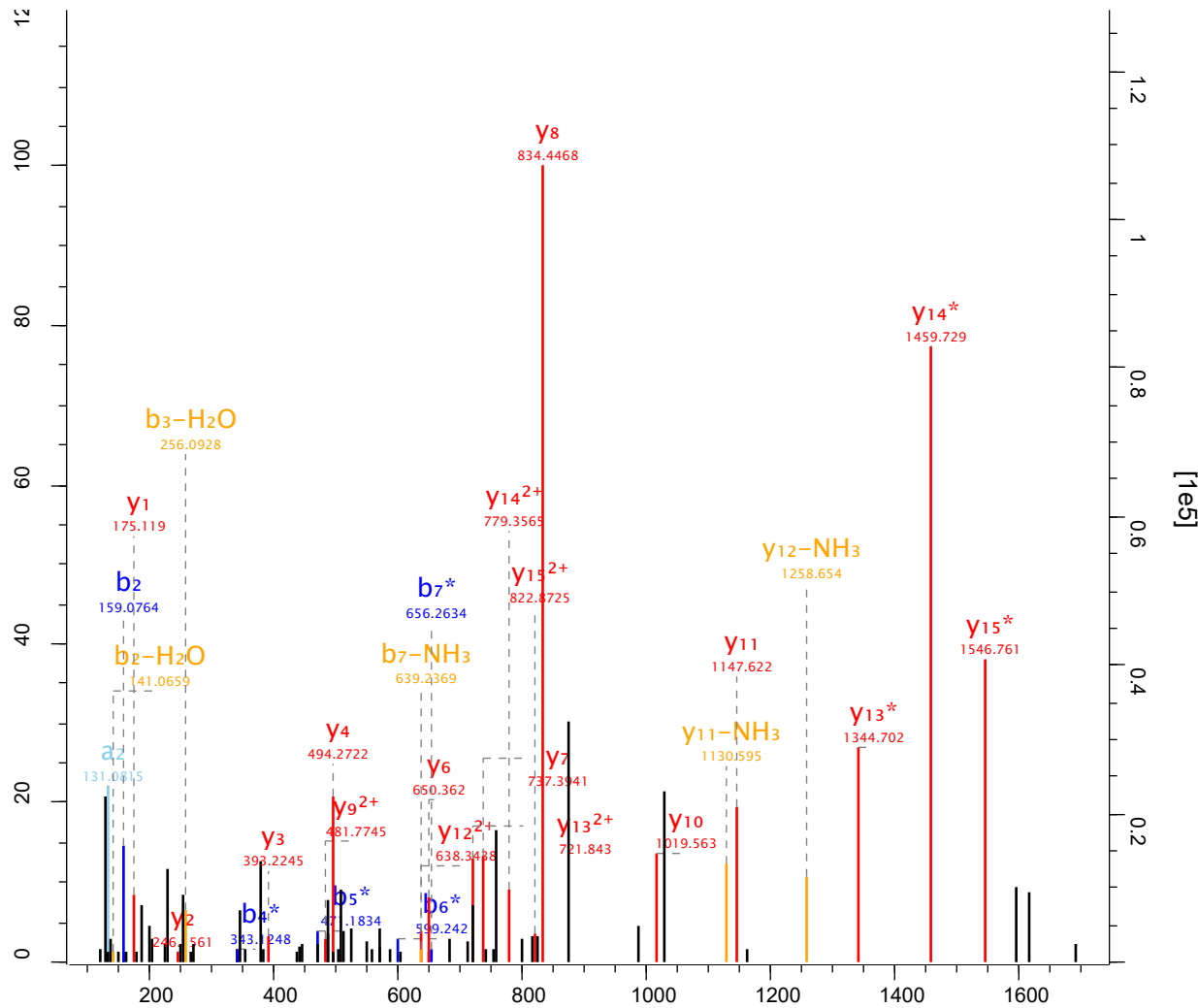


- E G S V E L G S ox M R -
 b₂ b₃ b₄ b₅ b₇²⁺ y₇* y₆ y₅ y₄ y₃* ph y₂ y₁

Raw file Scan Method Score m/z
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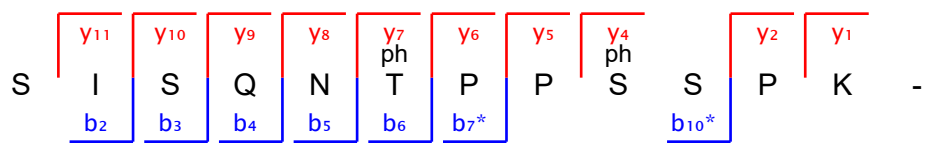
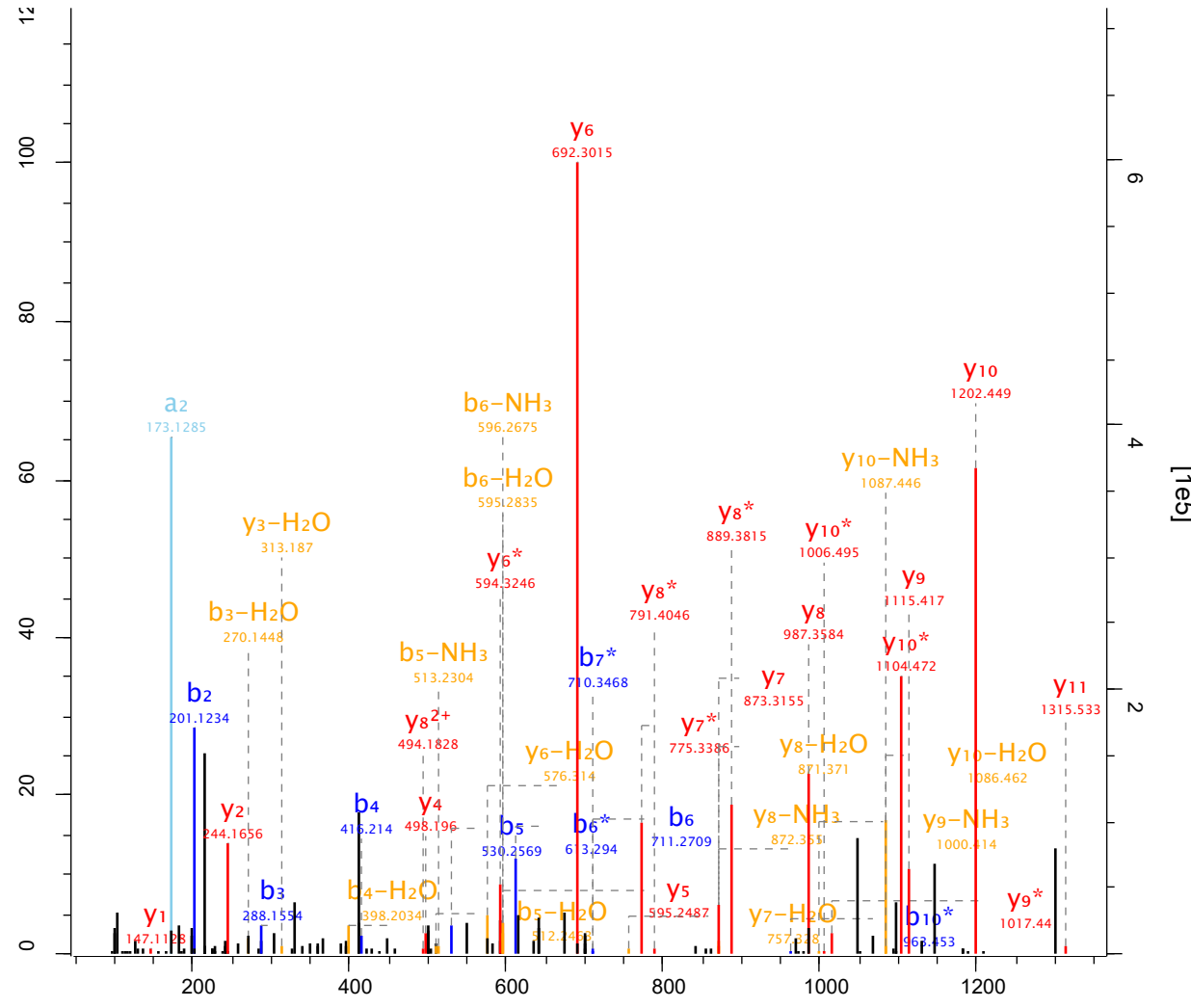


Raw file Scan Method Score m/z
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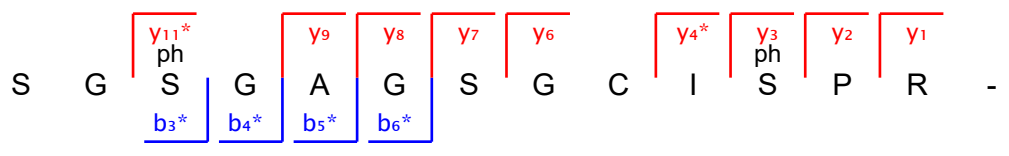
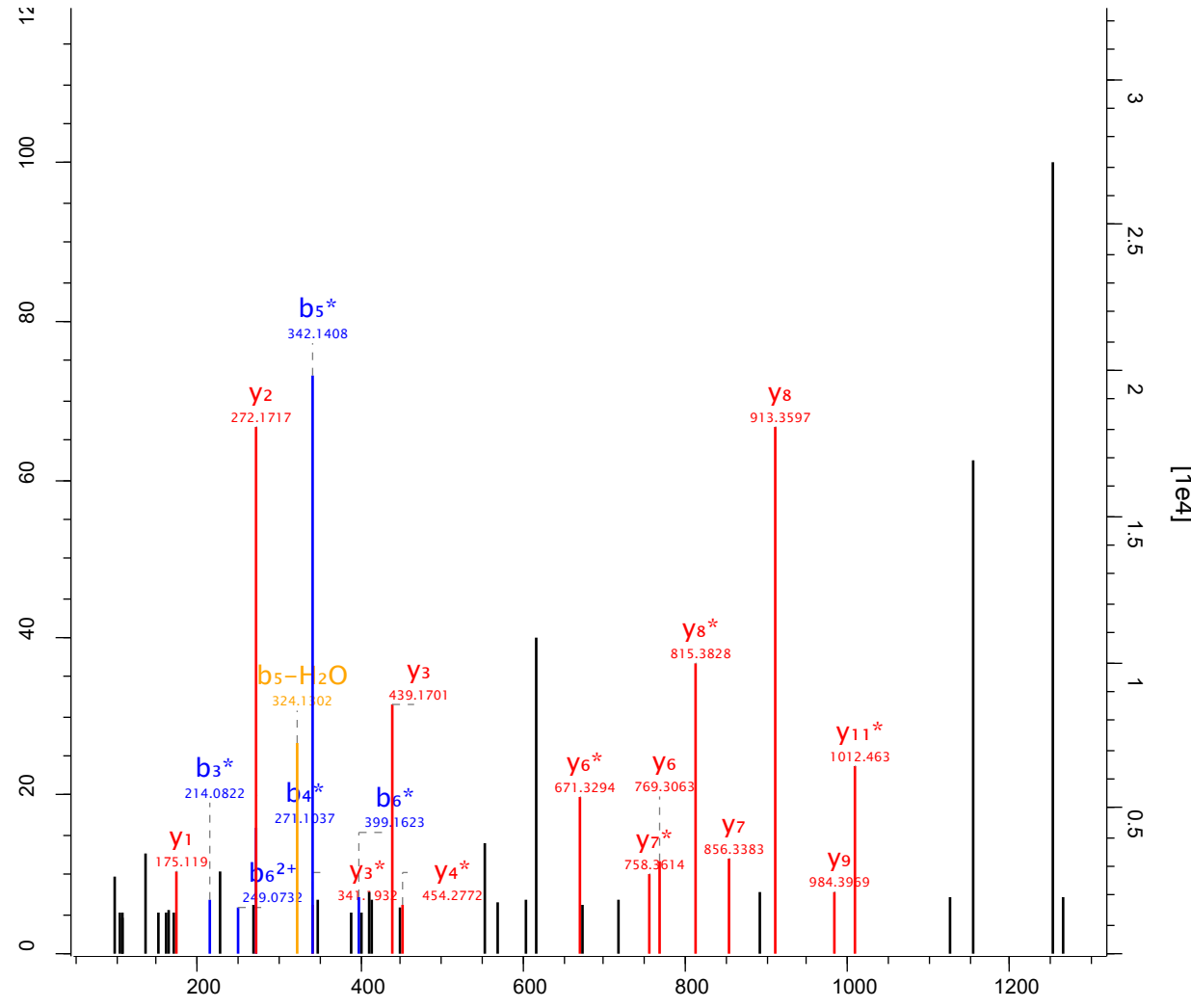


R -

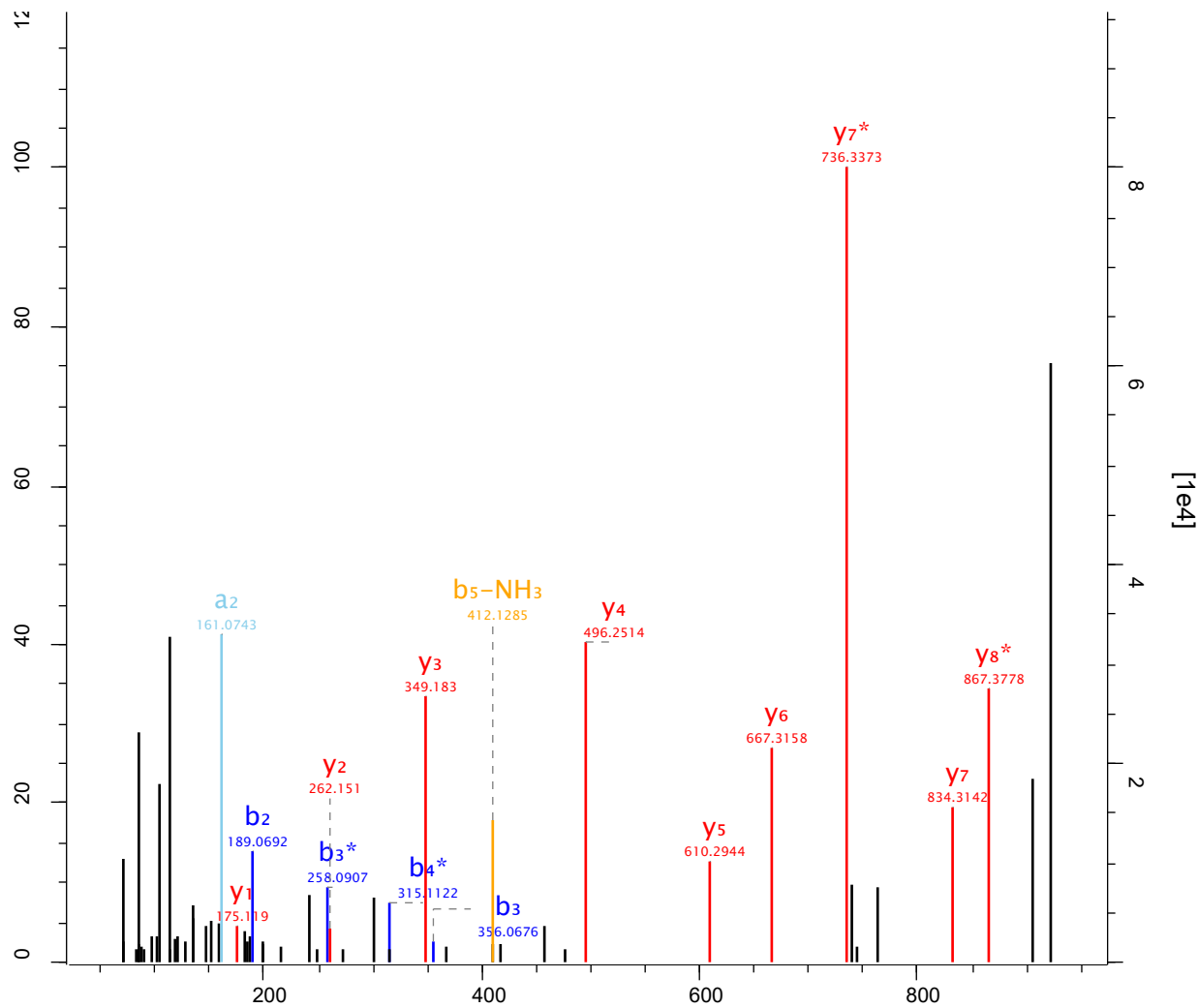
Raw file Scan Method Score m/z
 sys_05_2 9241 FTMS; HCD 181.35 701.79



Raw file Scan Method Score m/z
 sys_05_2 9347 FTMS; HCD 79.49 676.74

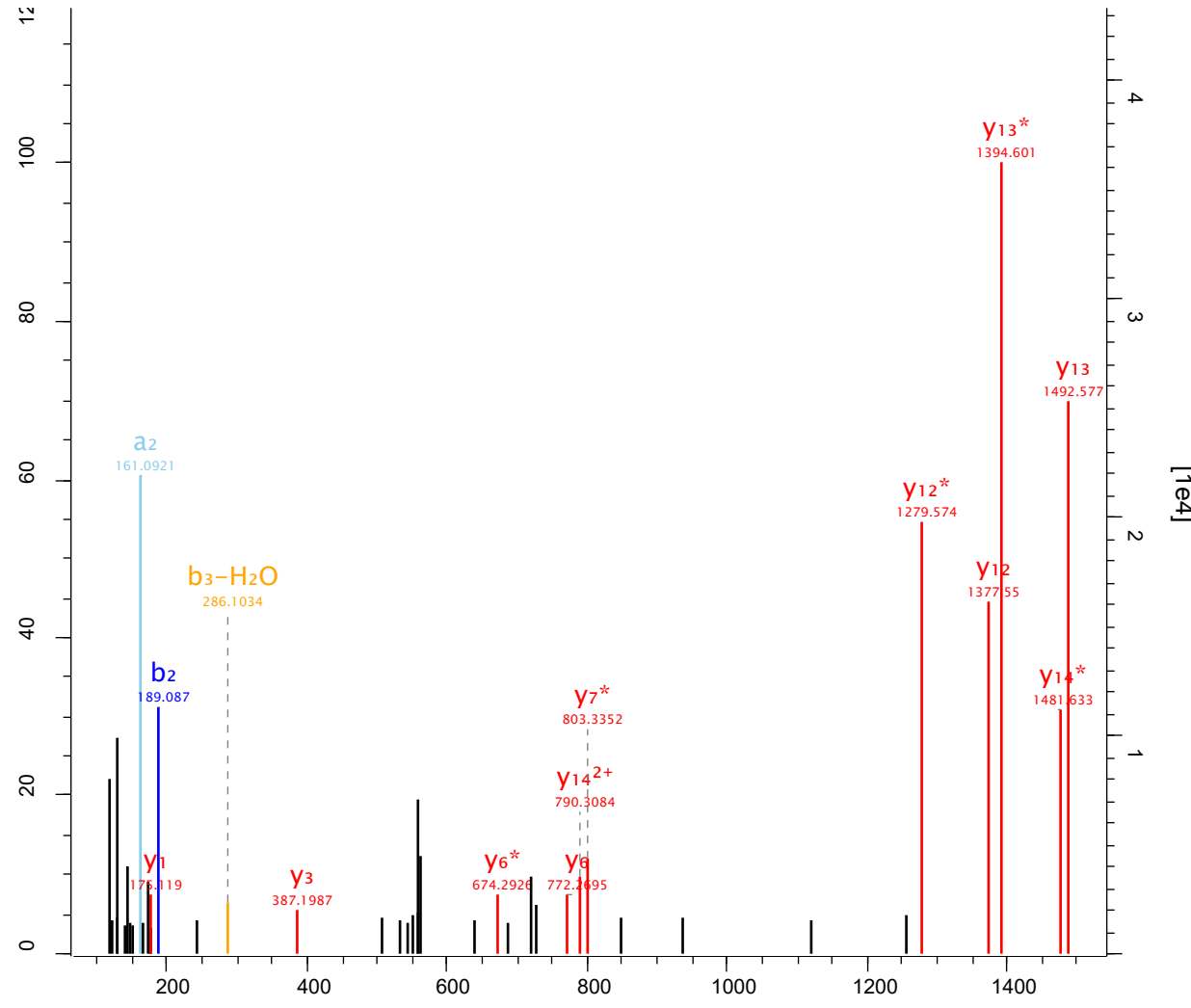


| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|-------|--------|
| sys_05_2 | 9355 | FTMS; HCD | 63.09 | 511.69 |

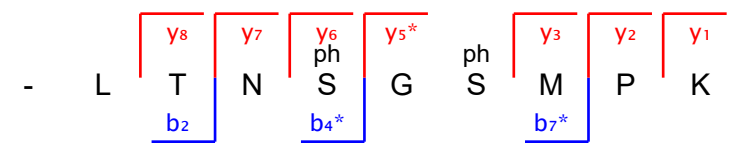
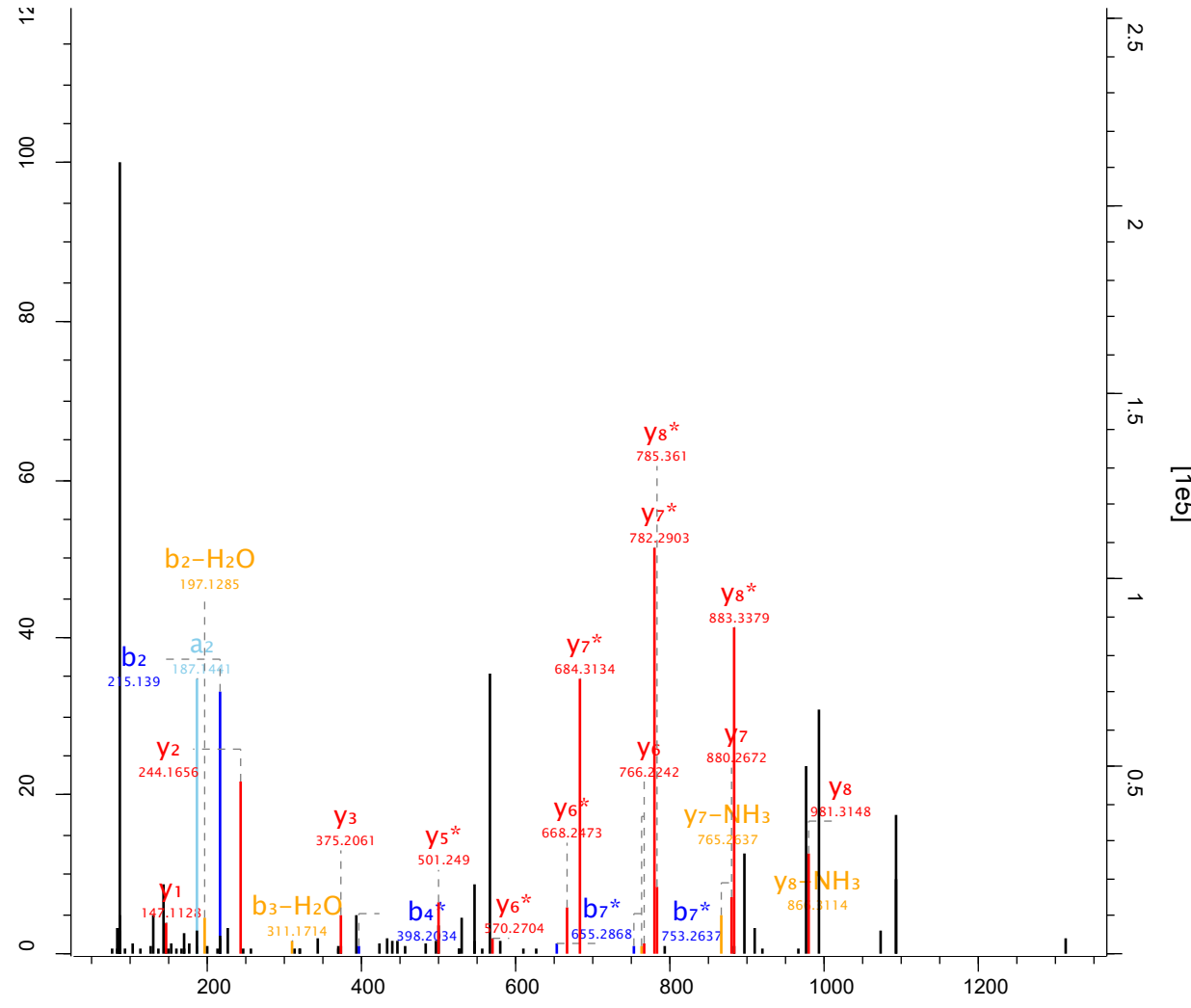


- G M S G N F S S R -
 [y8*] [y7] [y6] [y5] [y4] [y3] [y2] [y1]
 [b2] [b3] [b4*]

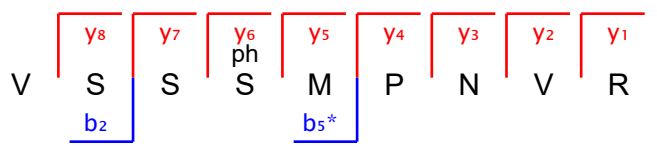
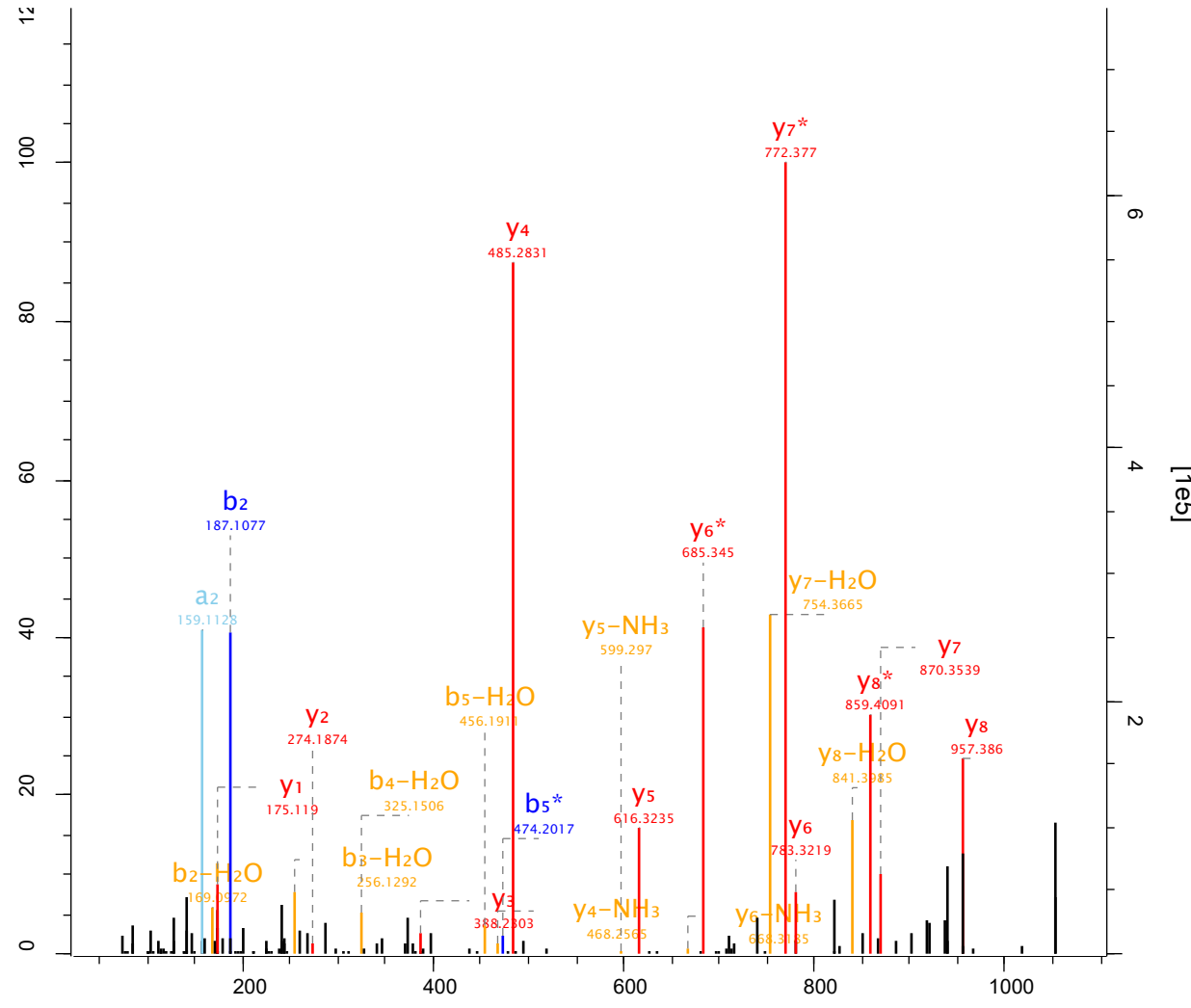
Raw file Scan Method Score m/z
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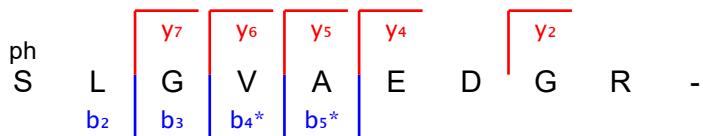
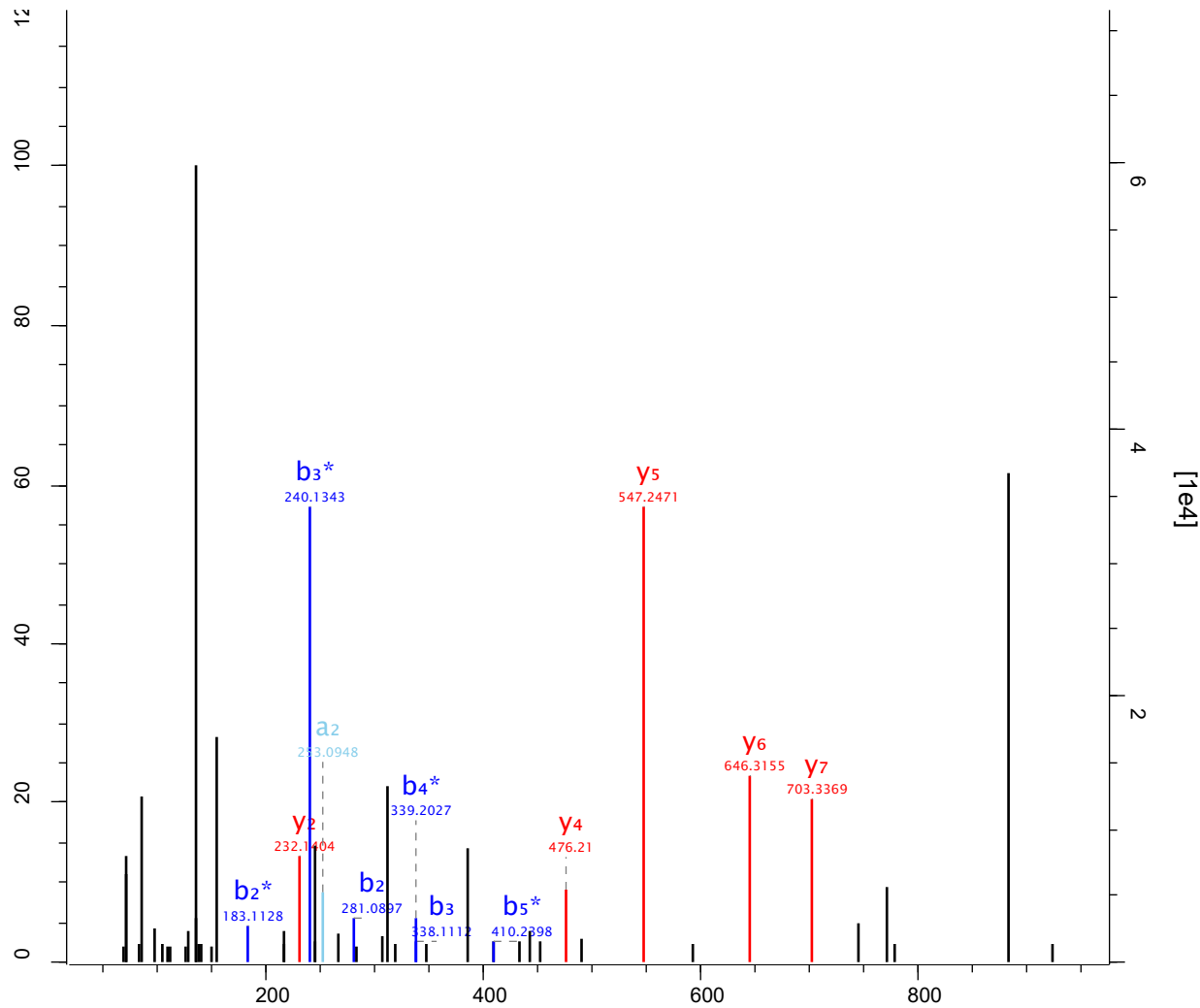
Raw file Scan Method Score m/z
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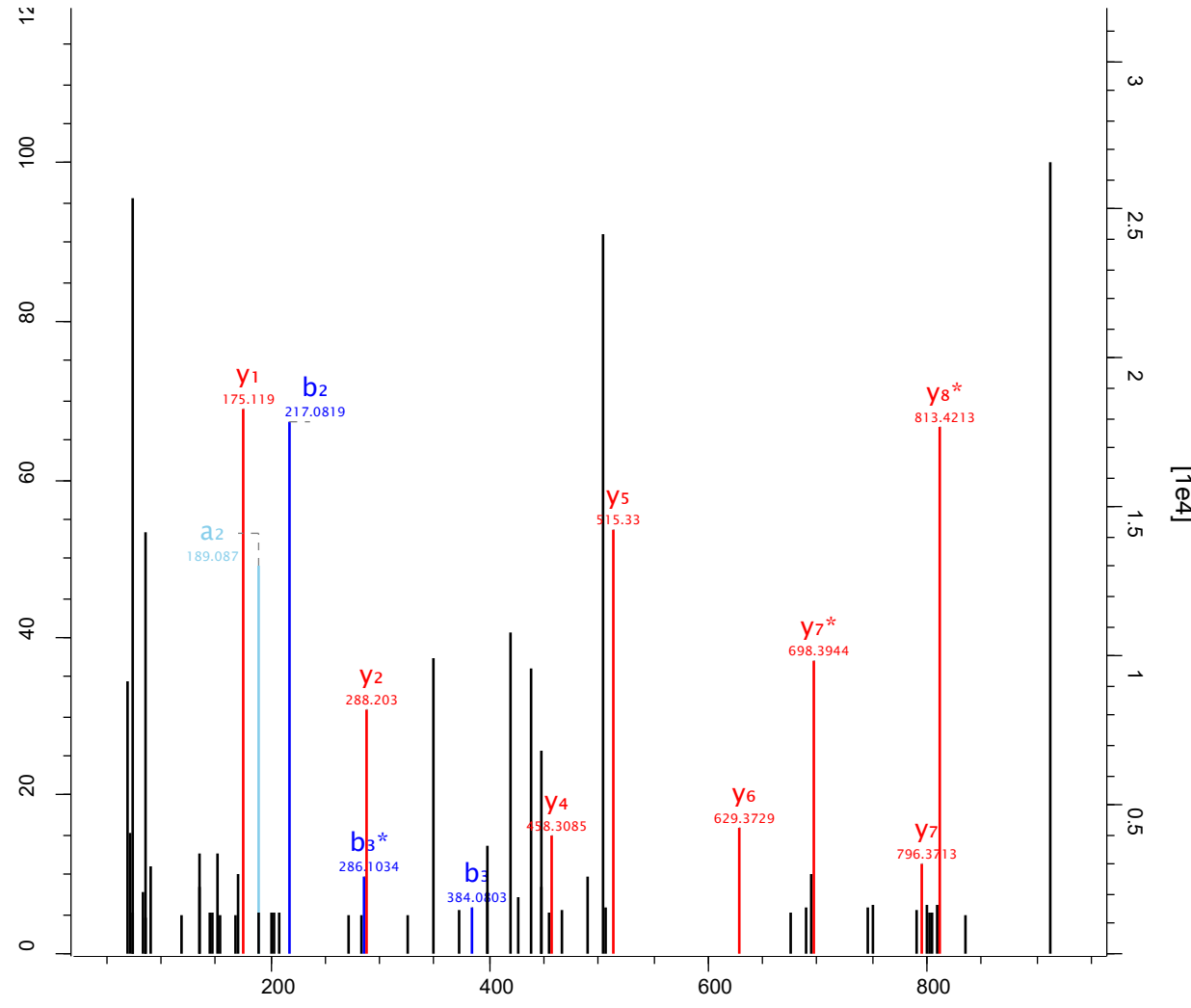
Raw file Scan Method Score m/z
 sys_05_2 9617 FTMS; HCD 127.83 528.73



| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|-------|--------|
| sys_05_2 | 9646 | FTMS; HCD | 43.5 | 492.21 |



Raw file Scan Method Score m/z
 sys_05_2 9769 FTMS; HCD 59.42 506.73

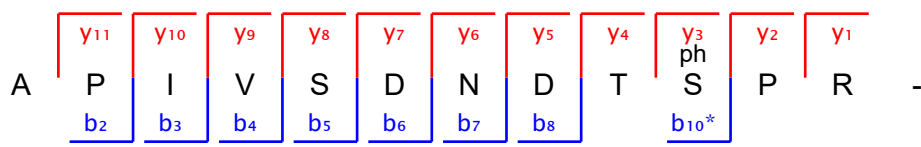
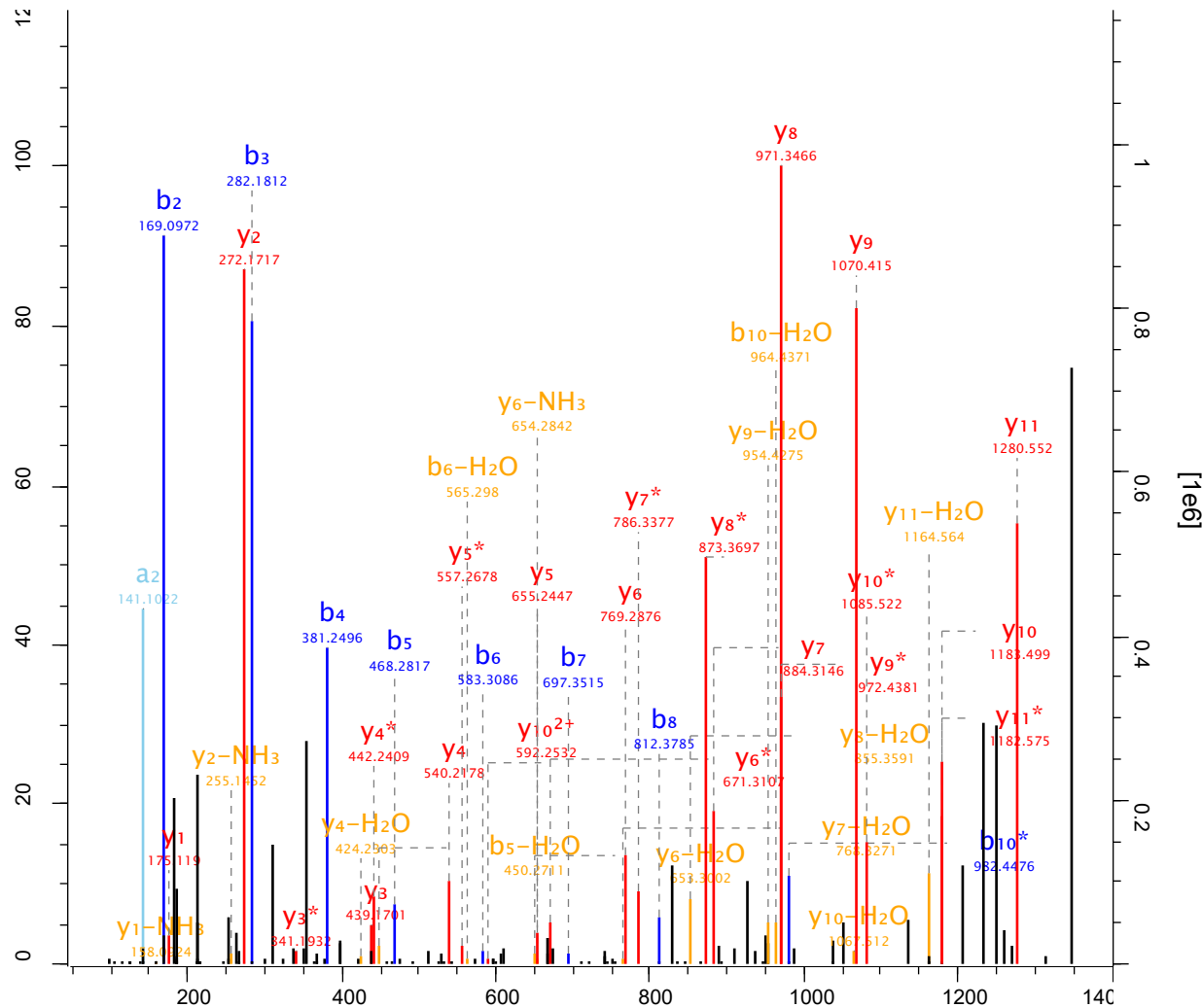


- T D S N G G L I R -

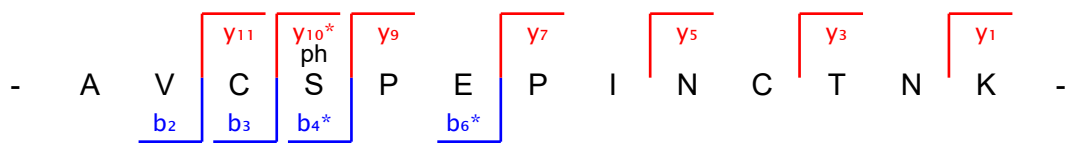
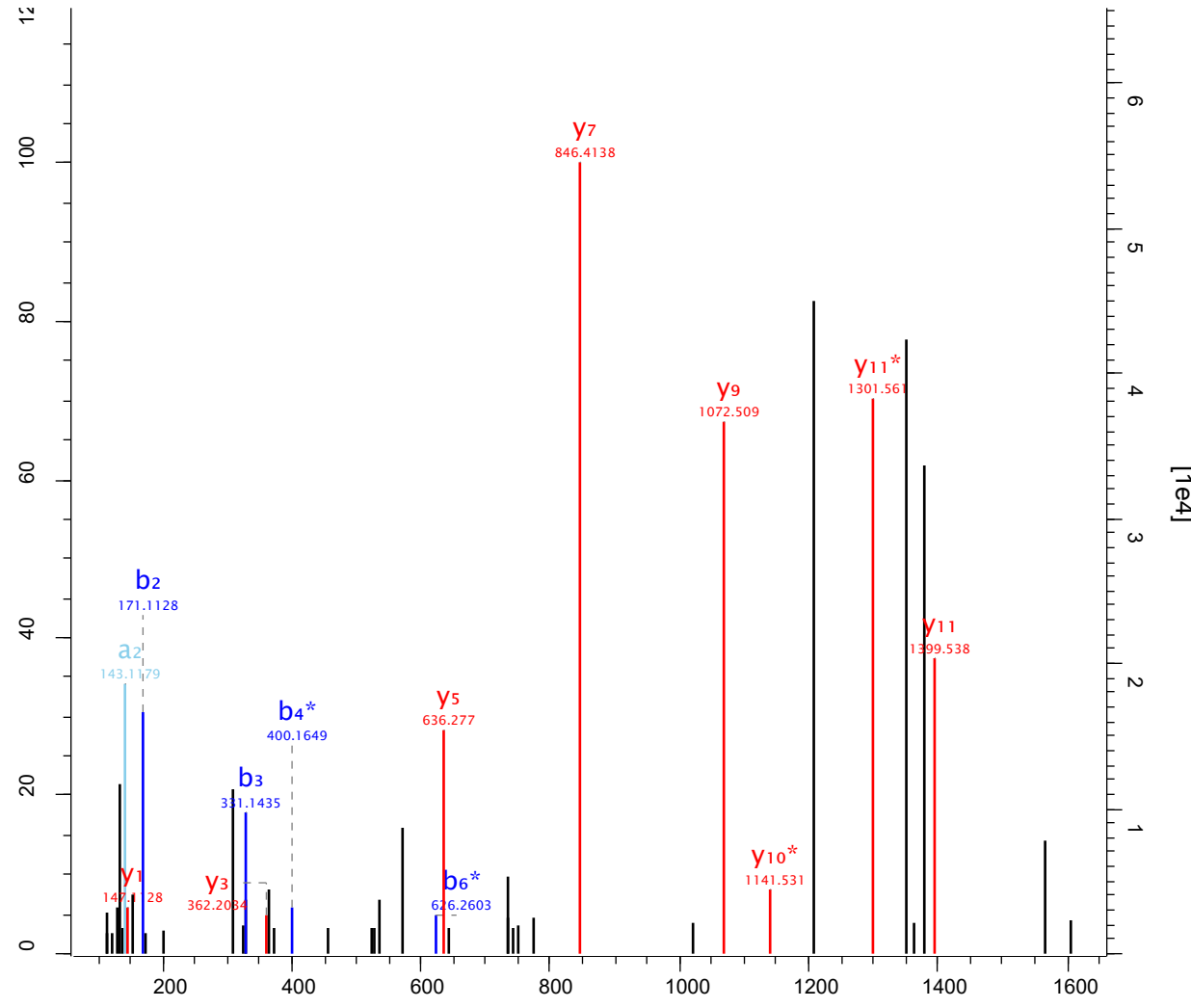
Annotations above the sequence:

- Red boxes: y₈* (above D), y₇ ph (above S), y₆ (above N), y₅ (above G), y₄ (above G), y₂ (above I), y₁ (above R)
- Blue boxes: b₂ (below D), b₃ (below S)

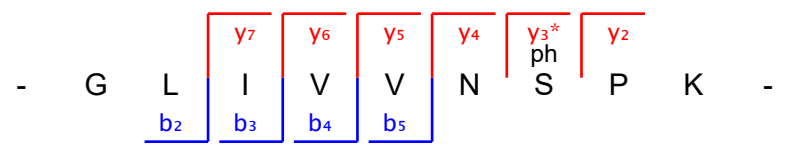
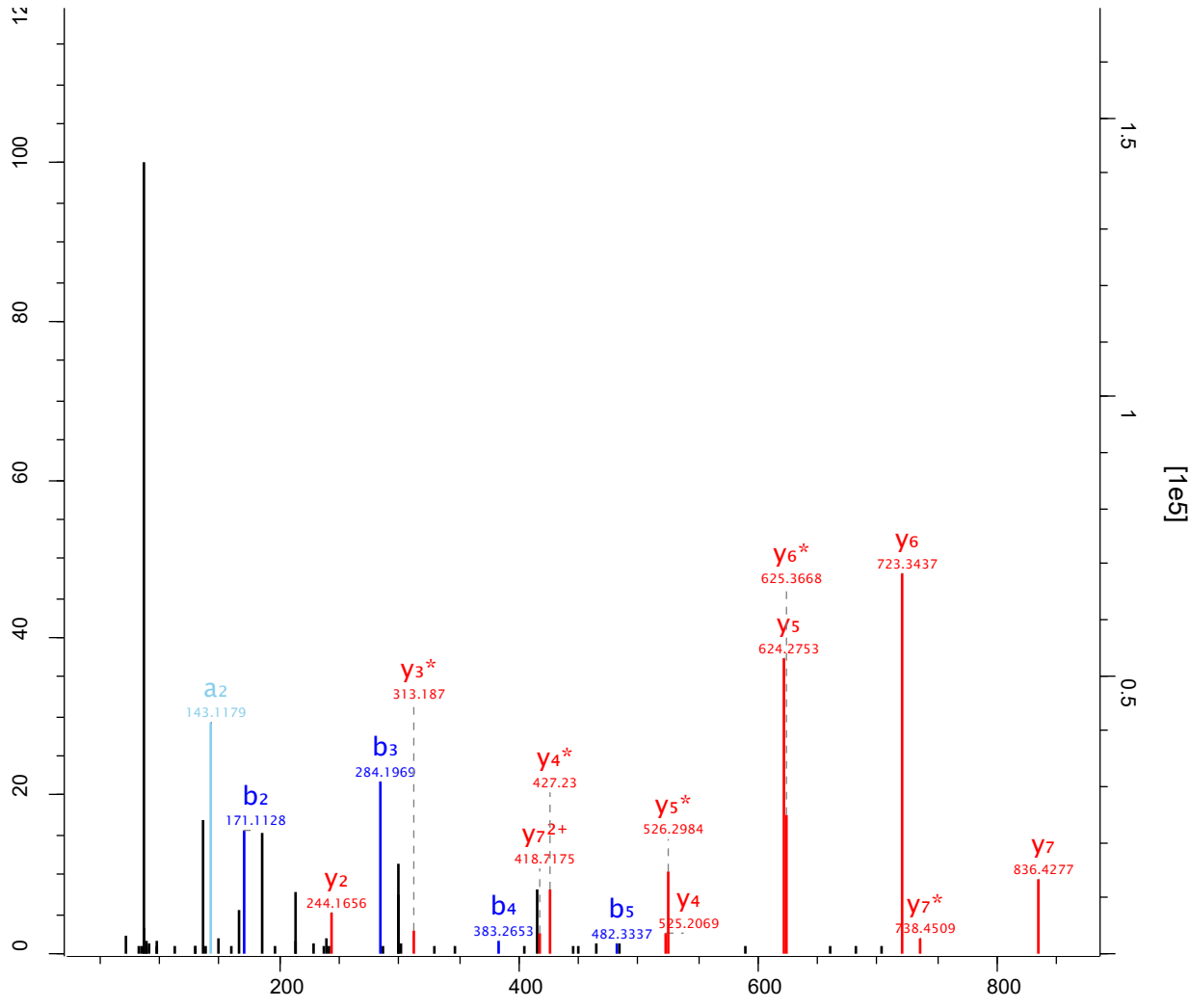
Raw file sys_05_2 Scan 9902 Method FTMS; HCD Score 246.8 m/z 676.3



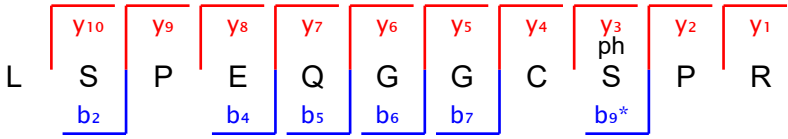
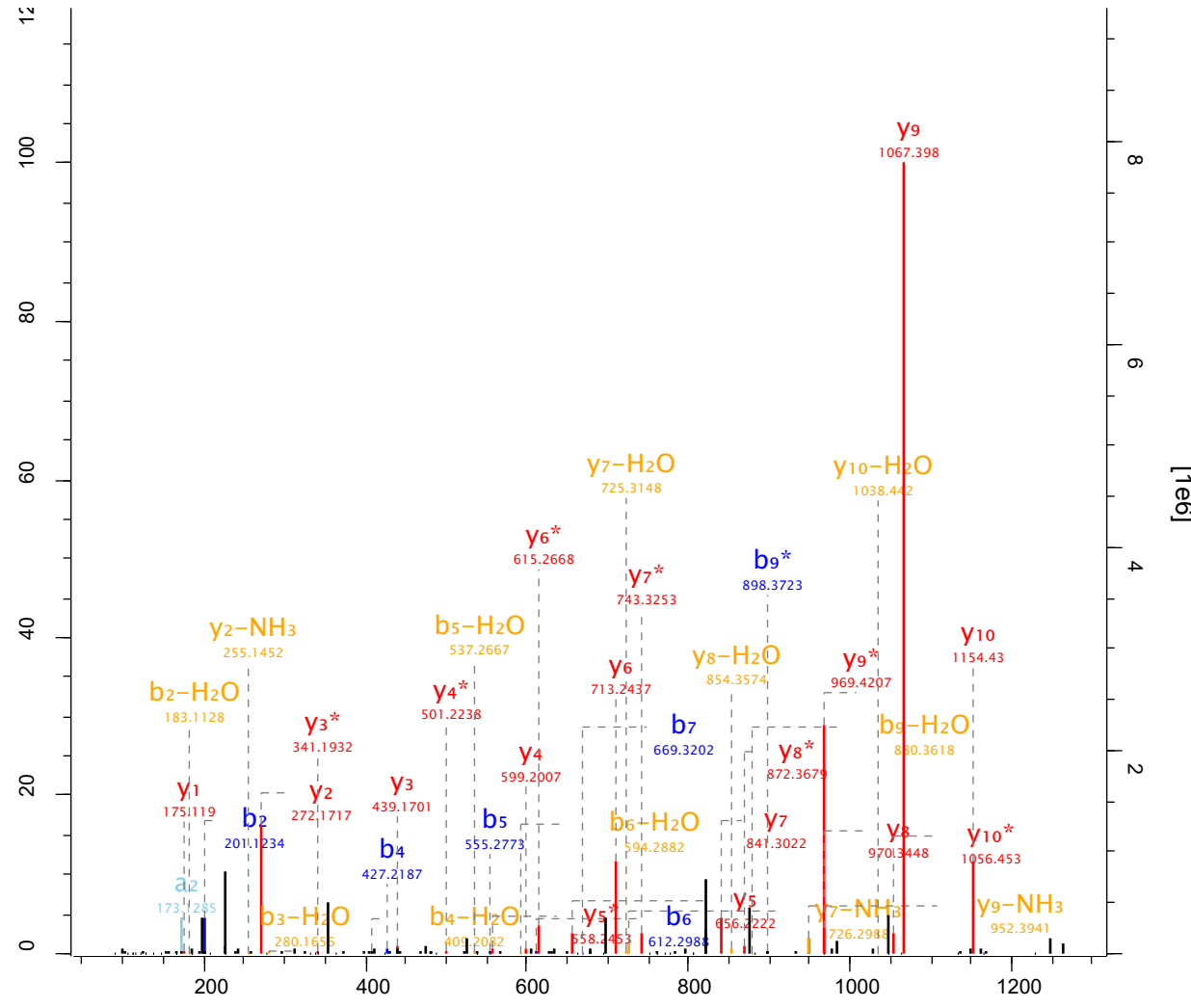
Raw file Scan Method Score m/z
 sys_05_2 9997 FTMS; HCD 41.7 785.32



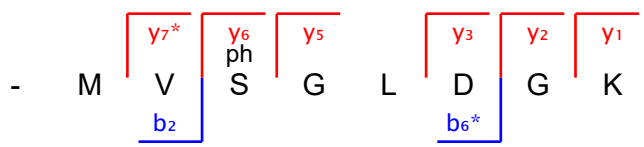
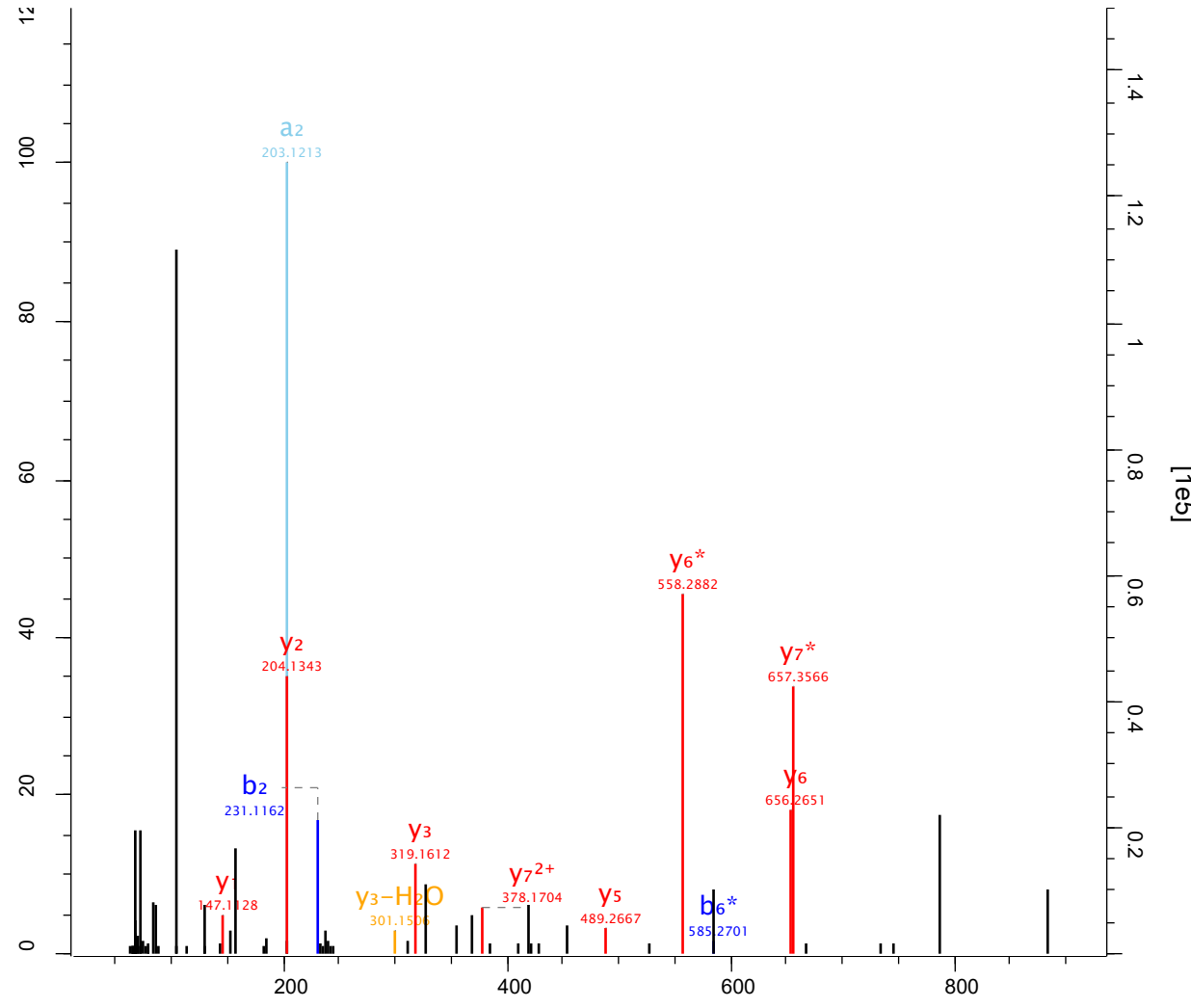
Raw file Scan Method Score m/z
 sys_05_3 13608 FTMS; HCD 93.35 503.77



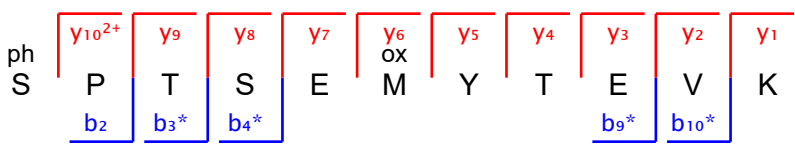
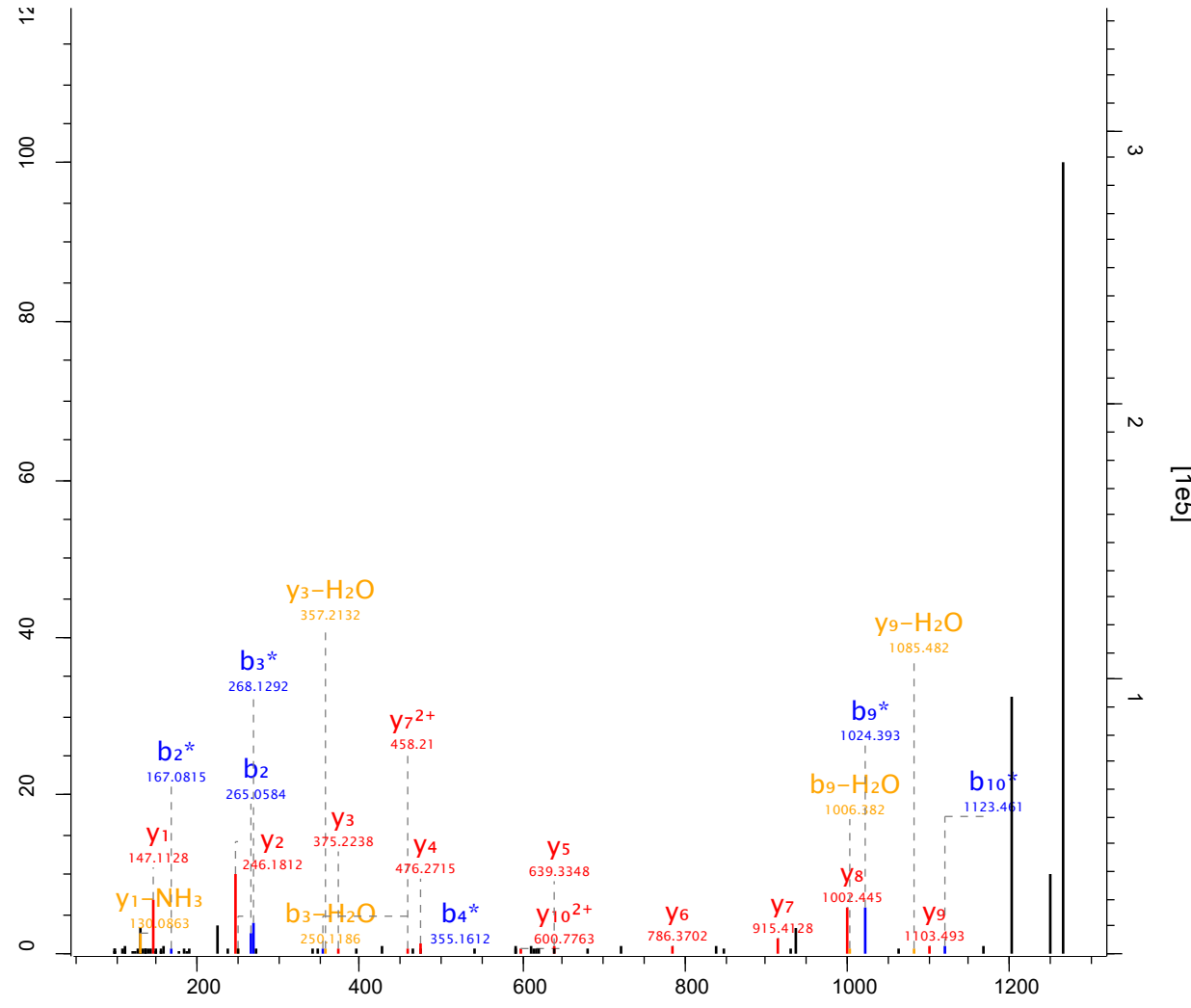
Raw file Scan Method Score m/z
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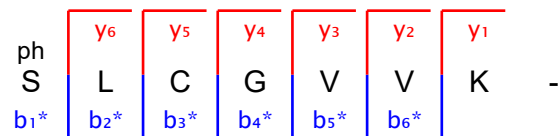
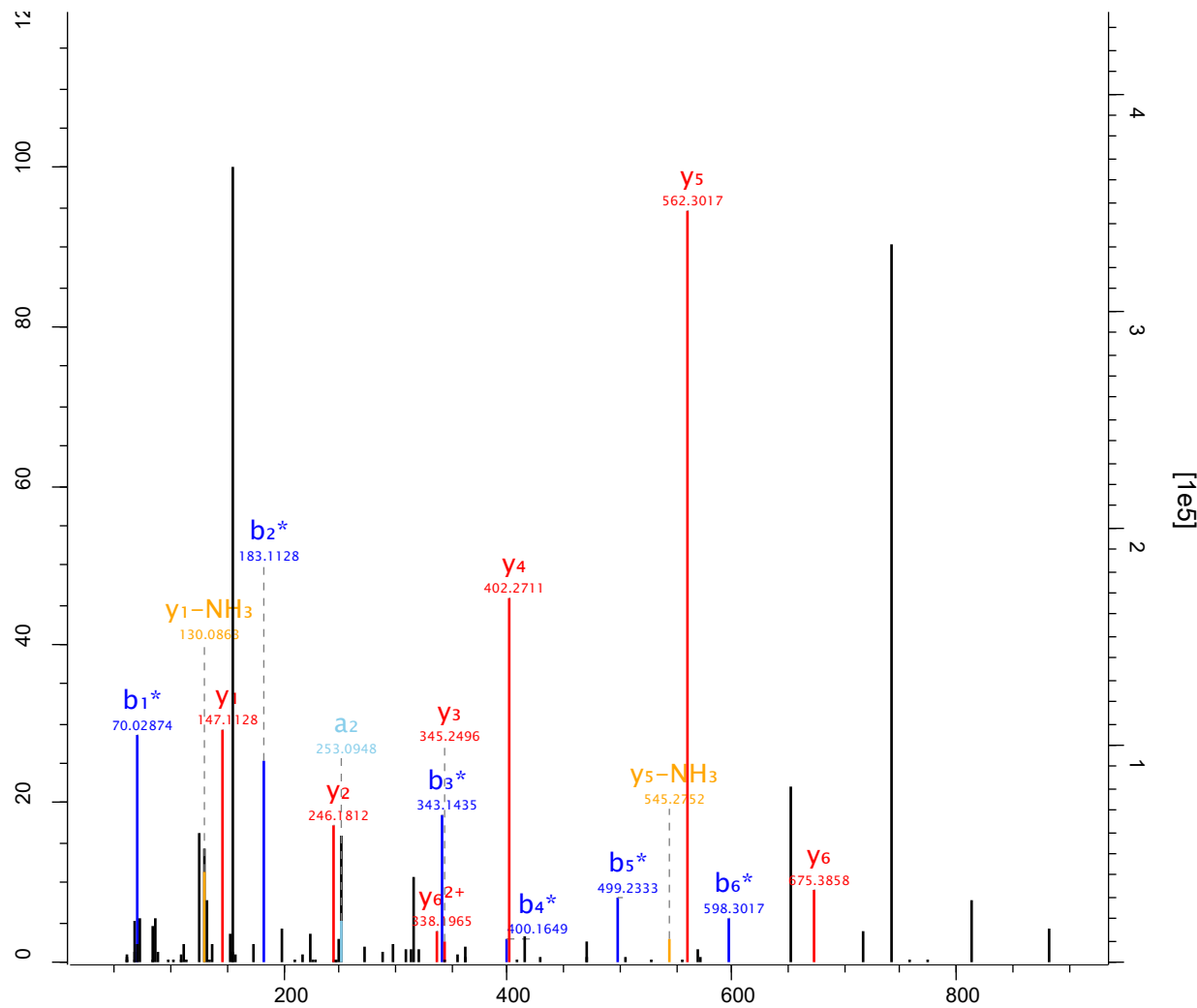
| Raw file | Scan | Method | Score | m/z |
|----------|------|-----------|-------|--------|
| sys_05_3 | 8633 | FTMS; HCD | 57.79 | 443.69 |



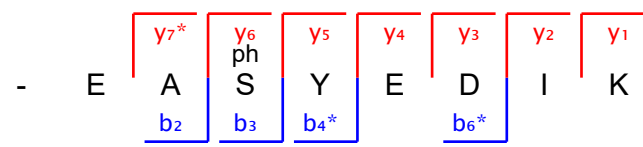
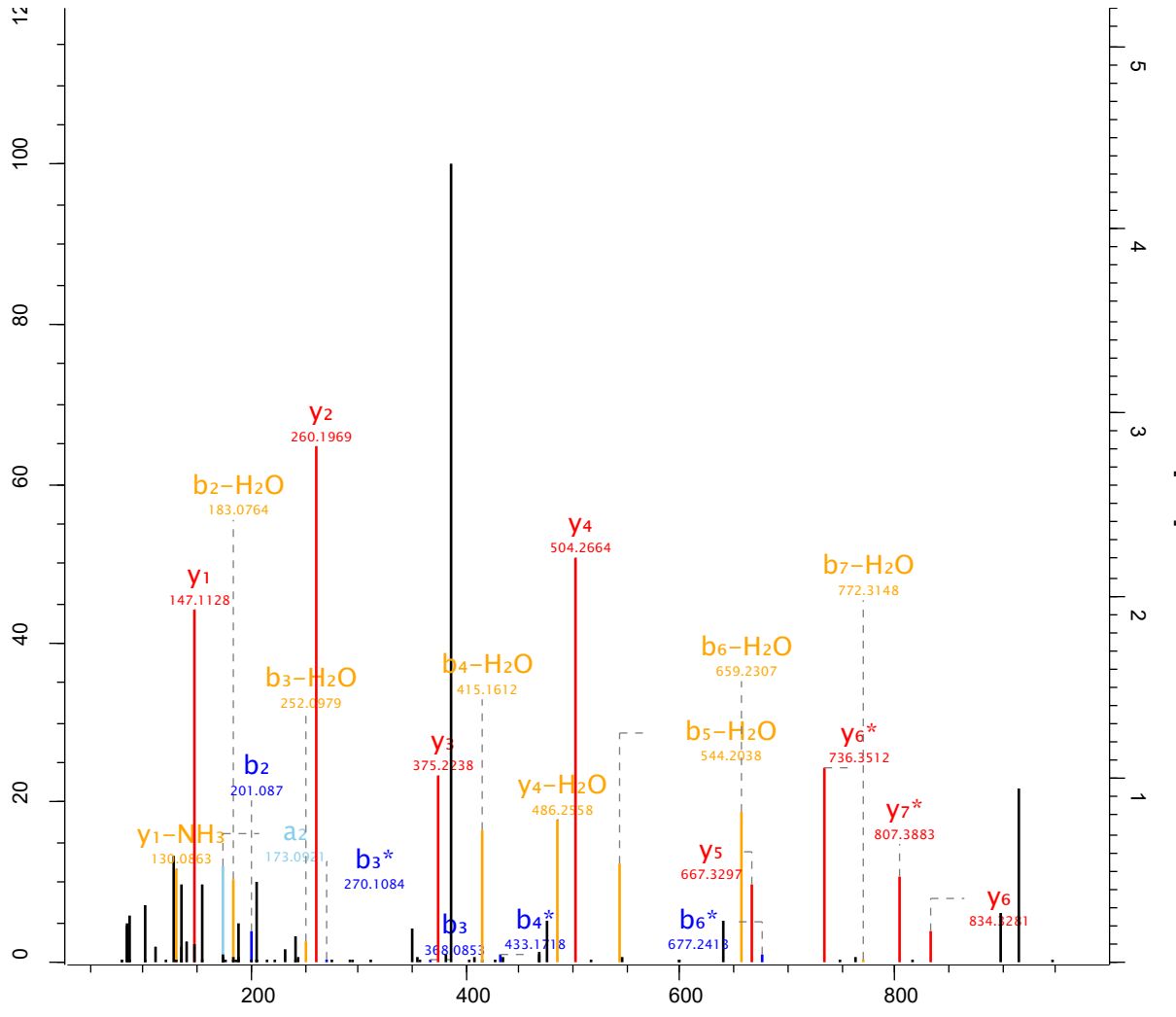
Raw file Scan Method Score m/z
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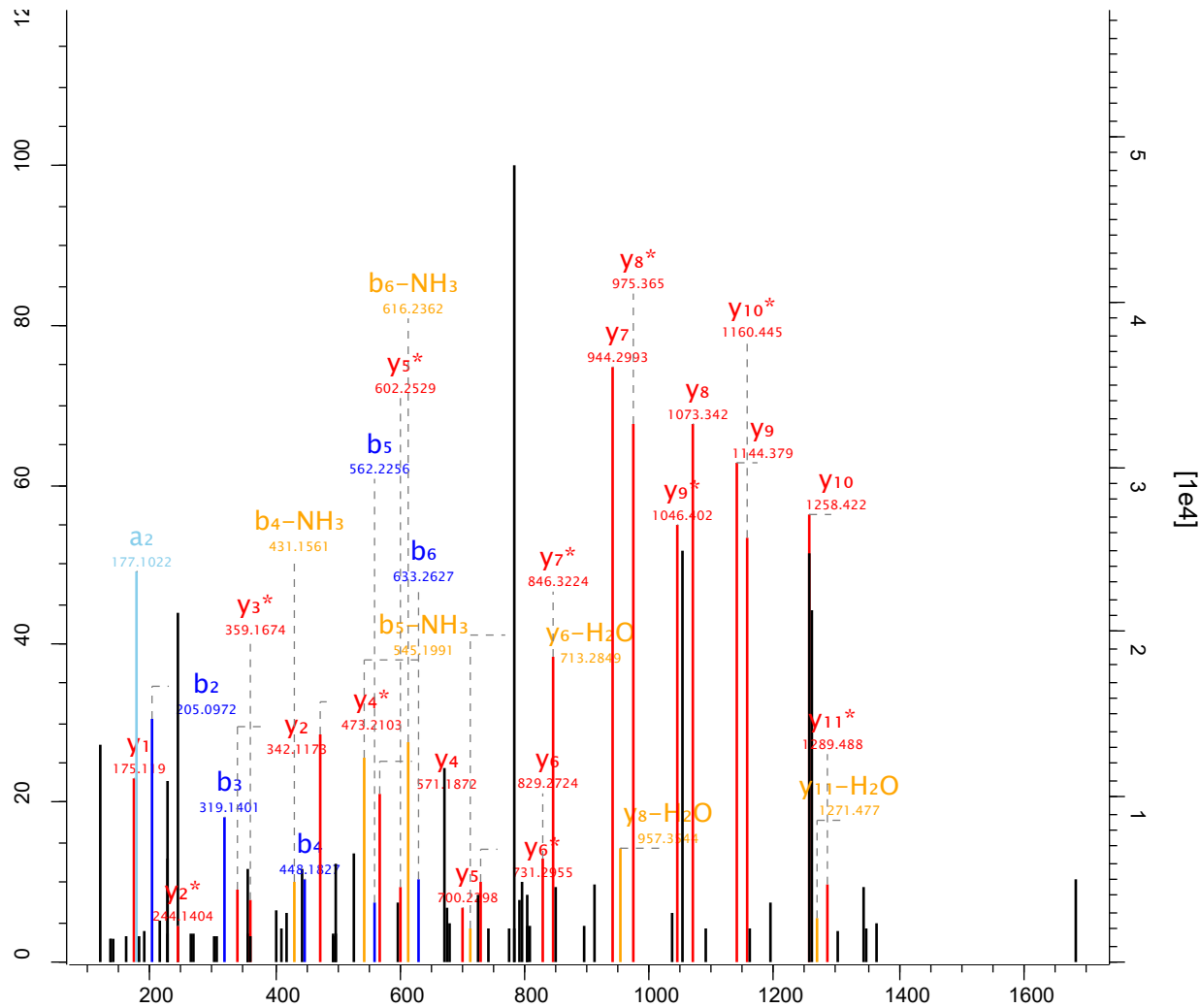
Raw file Scan Method Score m/z
 sys_15_1 10104 FTMS; HCD 111.95 421.7



Raw file Scan Method Score m/z
 sys_15_1 10119 FTMS; HCD 117.02 517.71



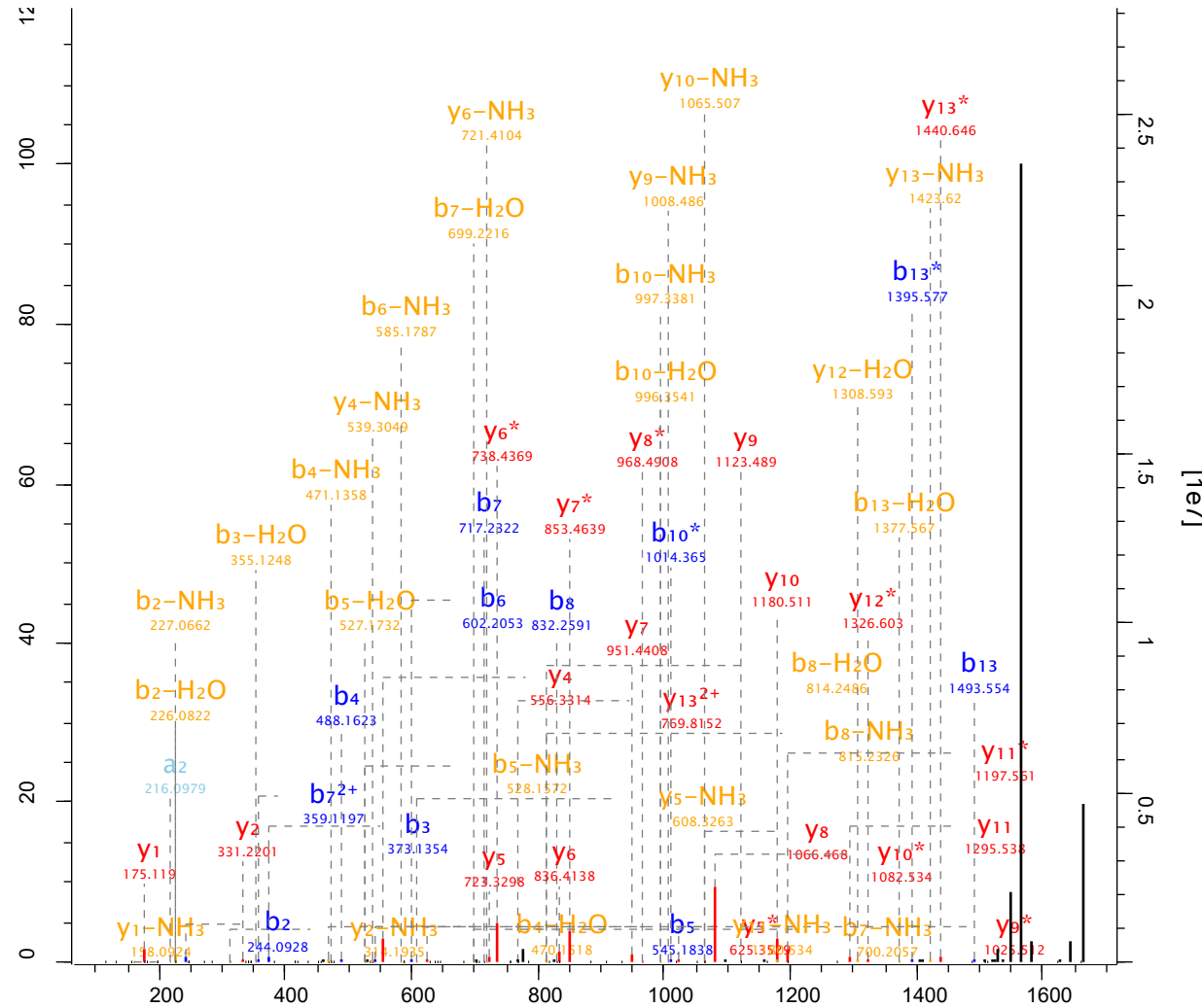
Raw file Scan Method Score m/z
 sys_15_1 10136 FTMS; HCD 139.81 853.3



- G F N E N A E D E E N D S R -

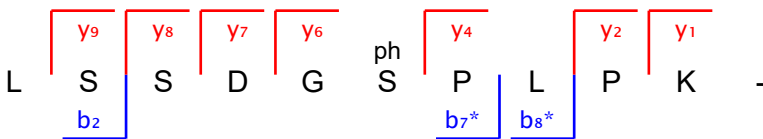
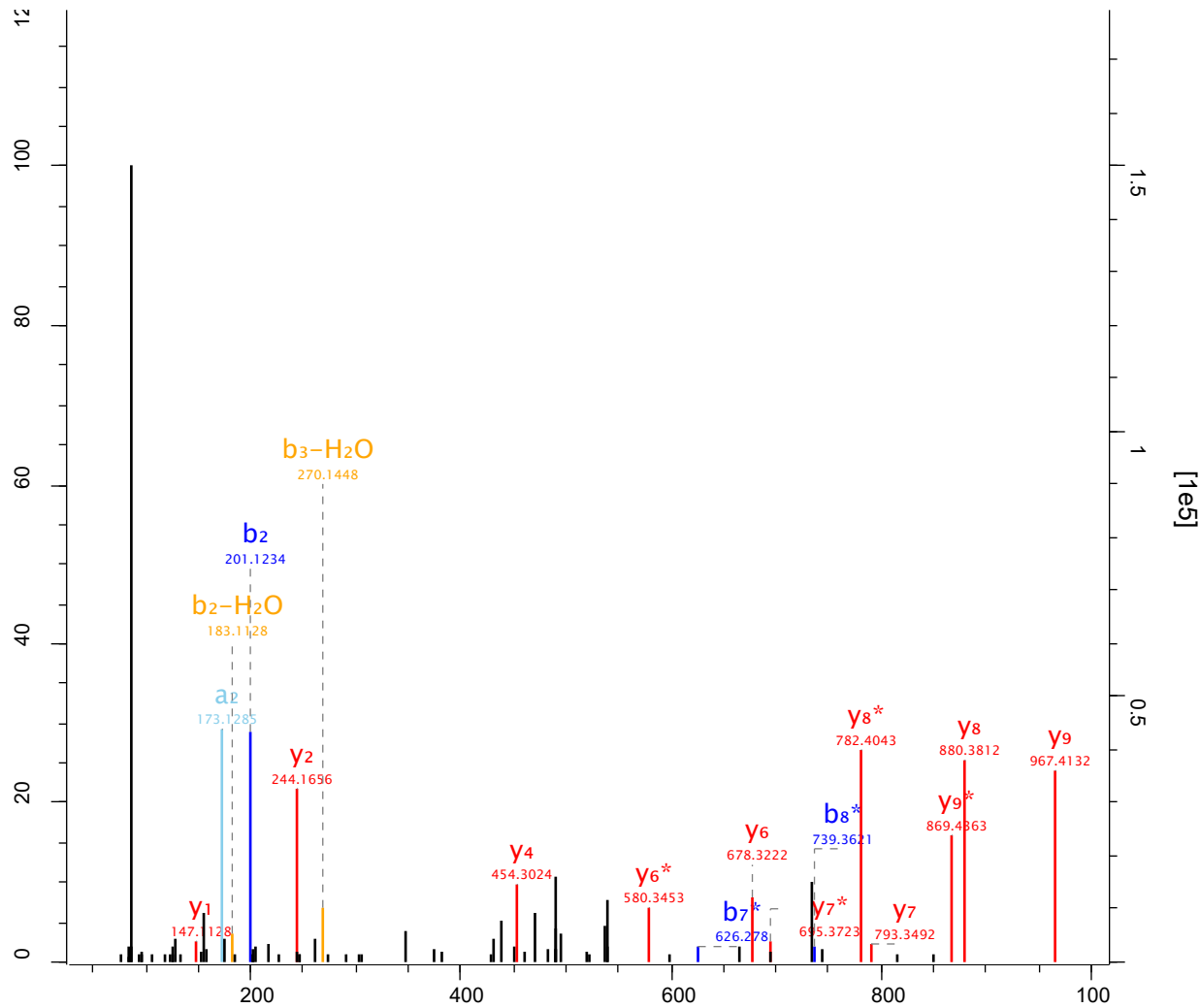
b₂
b₃
b₄
b₅
b₆
y₁₁*
y₁₀
y₉
y₈
y₇
y₆
y₅
y₄
y₃*
y₂
ph
y₁

Raw file Scan Method Score m/z
 sys_15_1 10175 FTMS; HCD 281.96 834.34

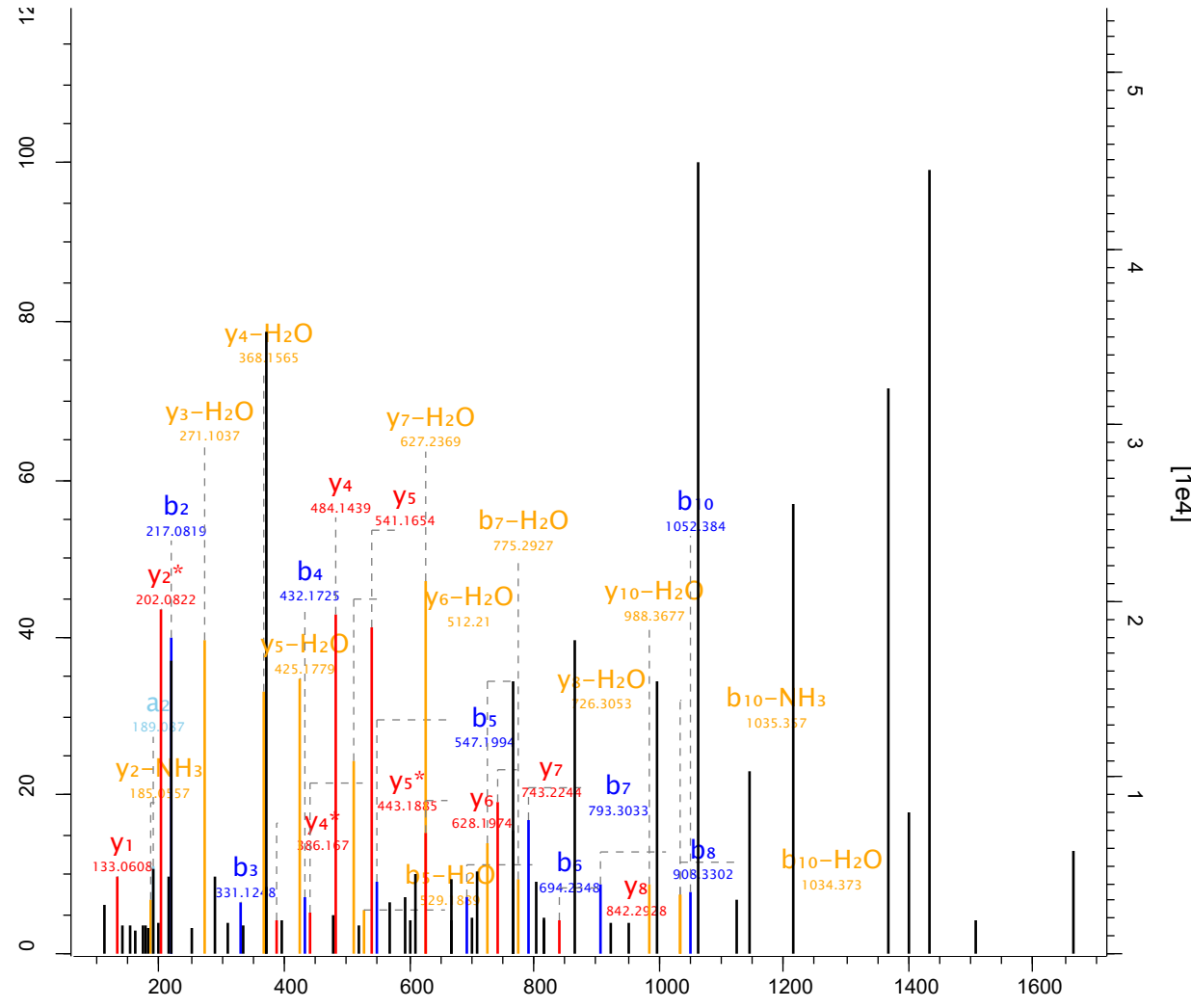


ac
 S N E D G G D D L S P Q R R -
 b₂ b₃ b₄ b₅ b₆ b₇ b₈ b₁₀* b₁₃

Raw file Scan Method Score m/z
 sys_15_1 10178 FTMS; HCD 70.44 540.75



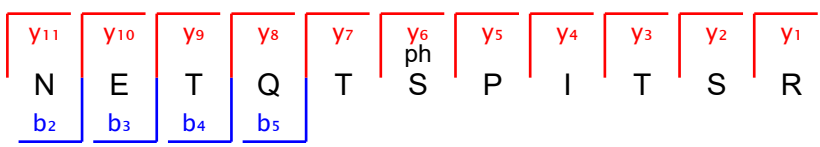
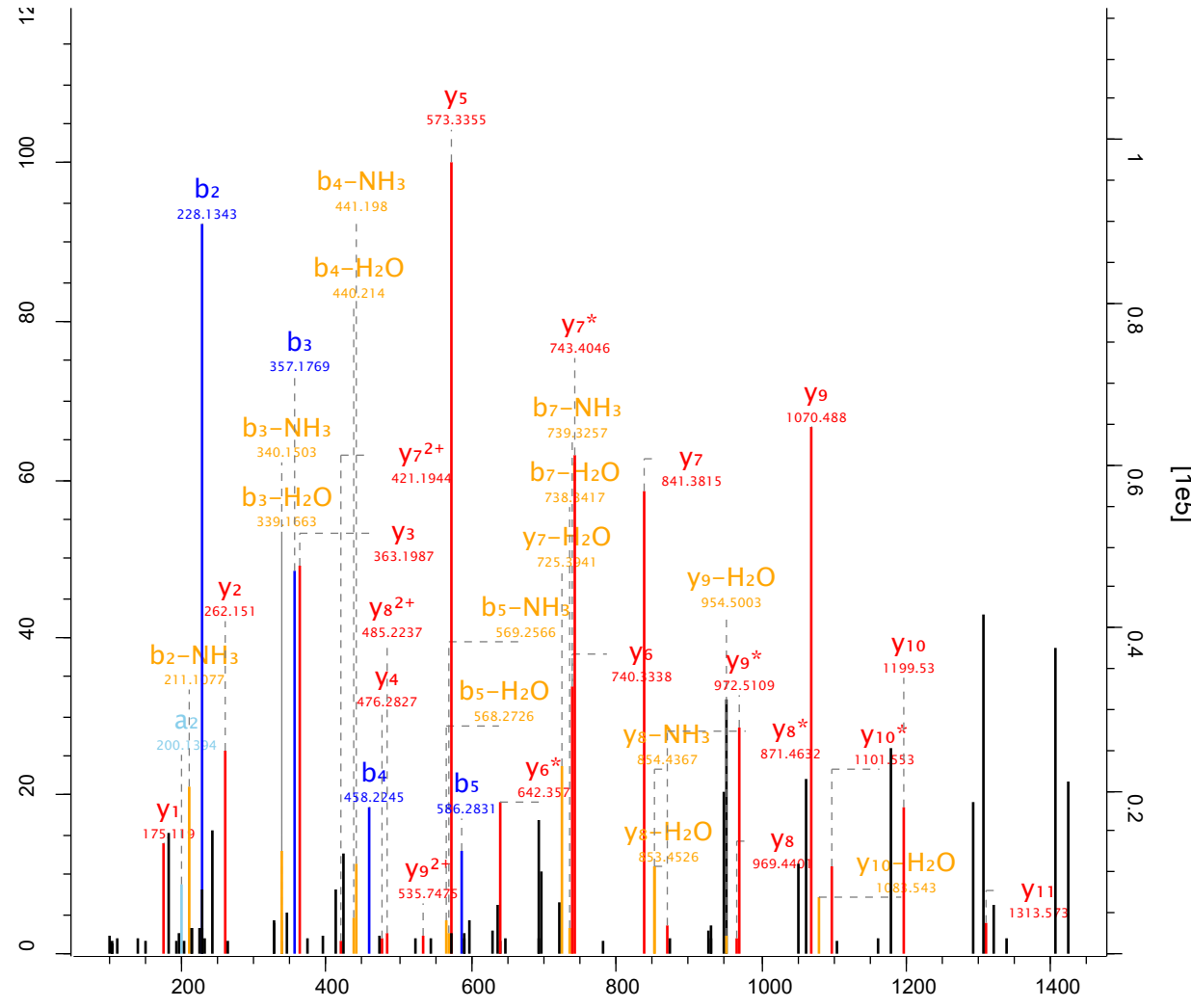
Raw file Scan Method Score m/z
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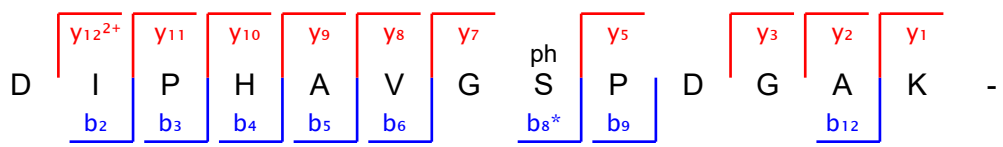
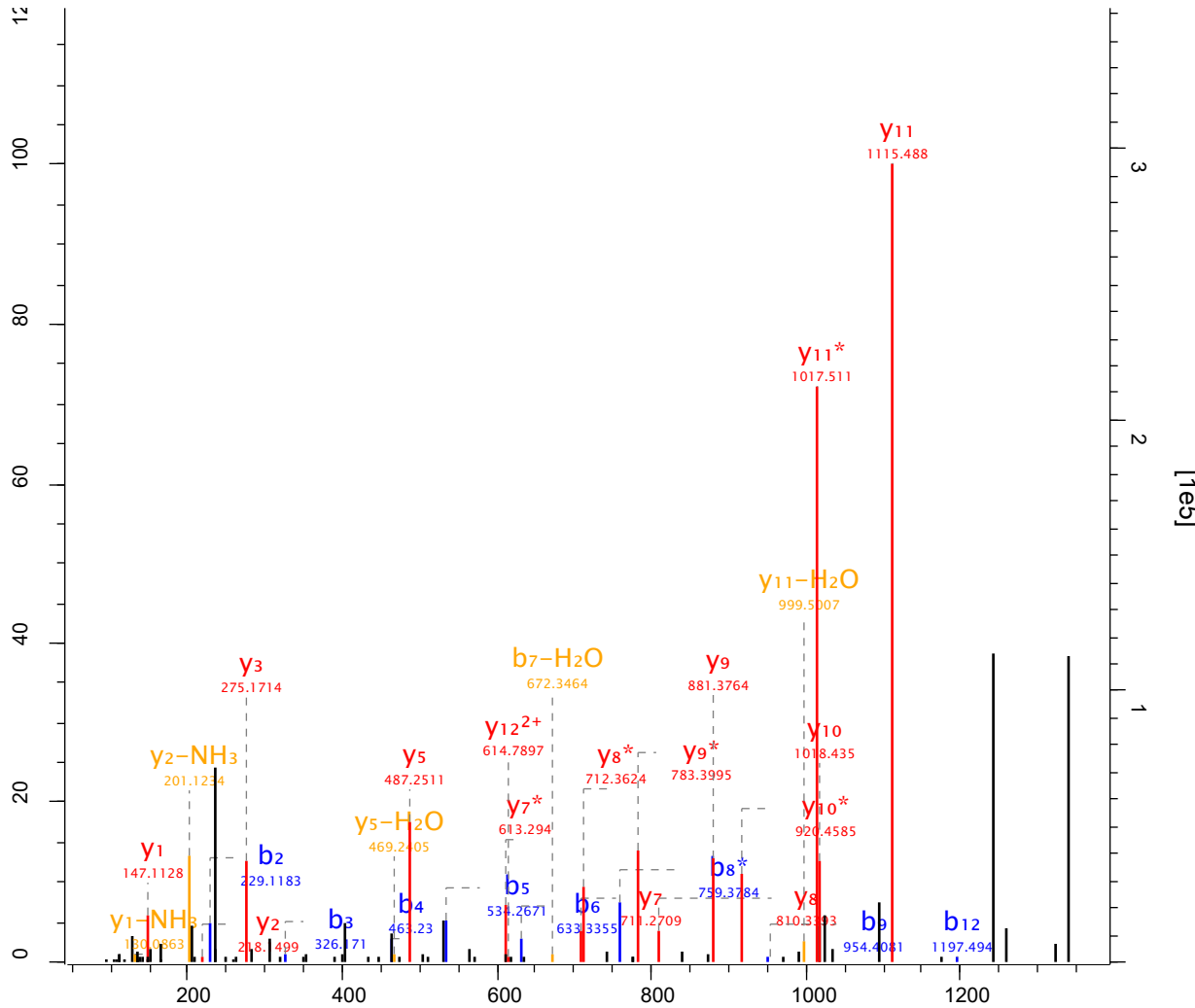
- S E N T D M ox V D S G P S y2*ph S y1 -

b₂
b₃
b₄
b₅
b₆
y₈
y₇
y₆
y₅
y₄
b₁₀

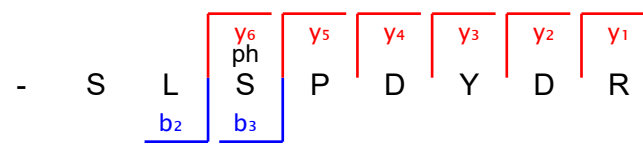
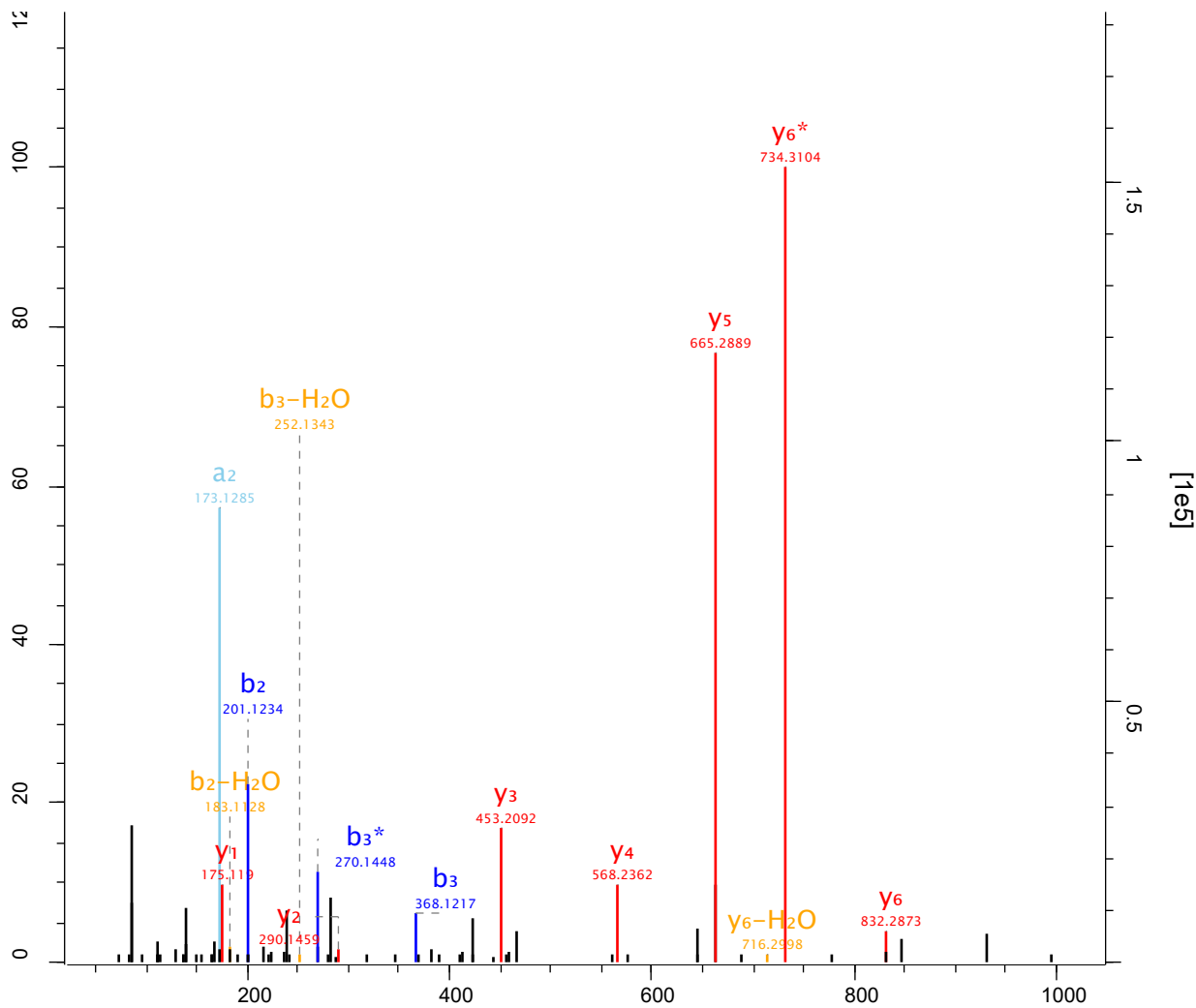
Raw file Scan Method Score m/z
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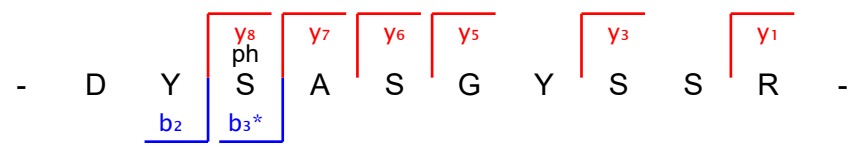
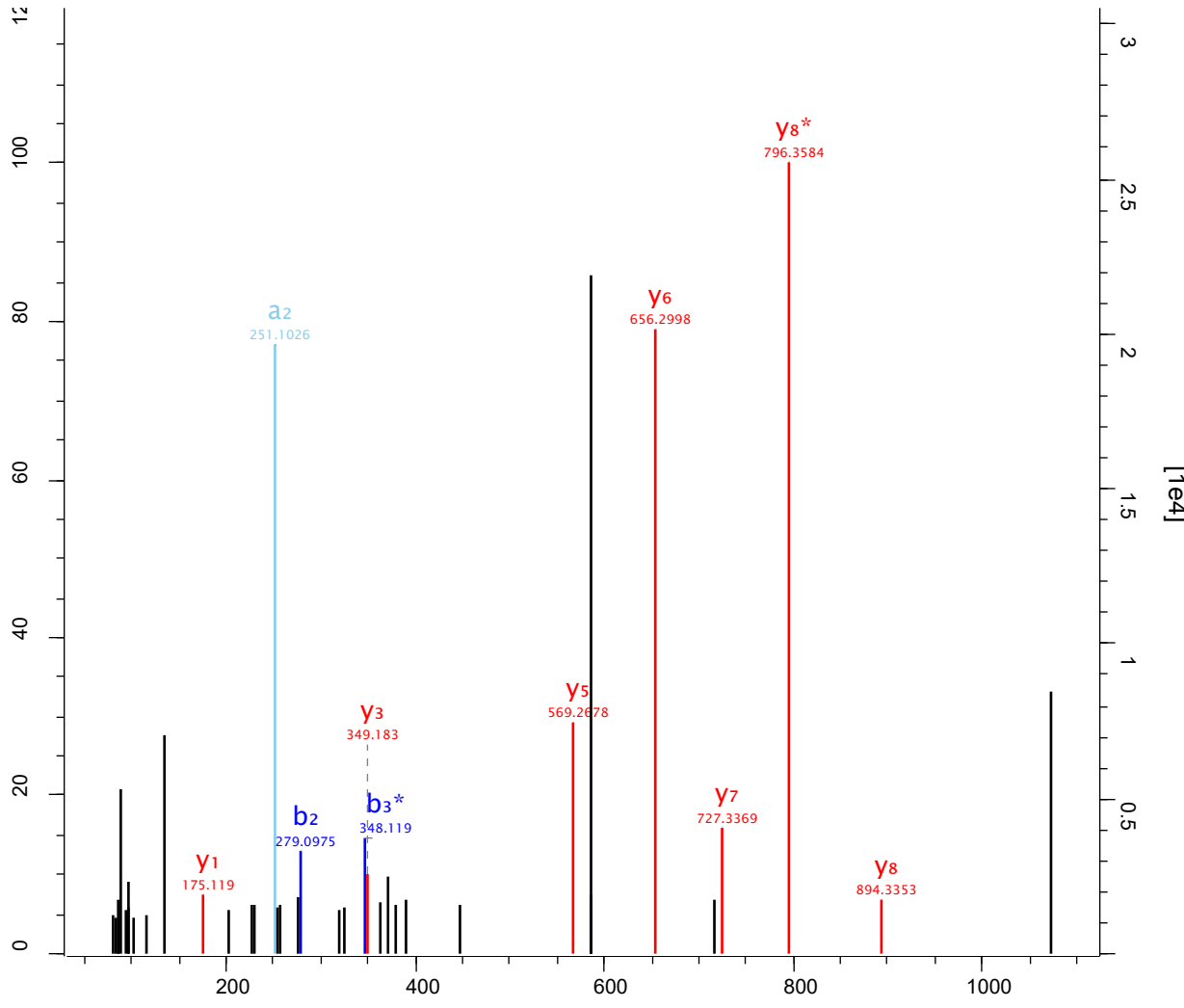
Raw file Scan Method Score m/z
 sys_15_1 10313 FTMS; HCD 110.12 672.3



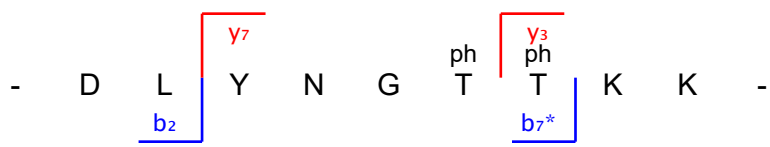
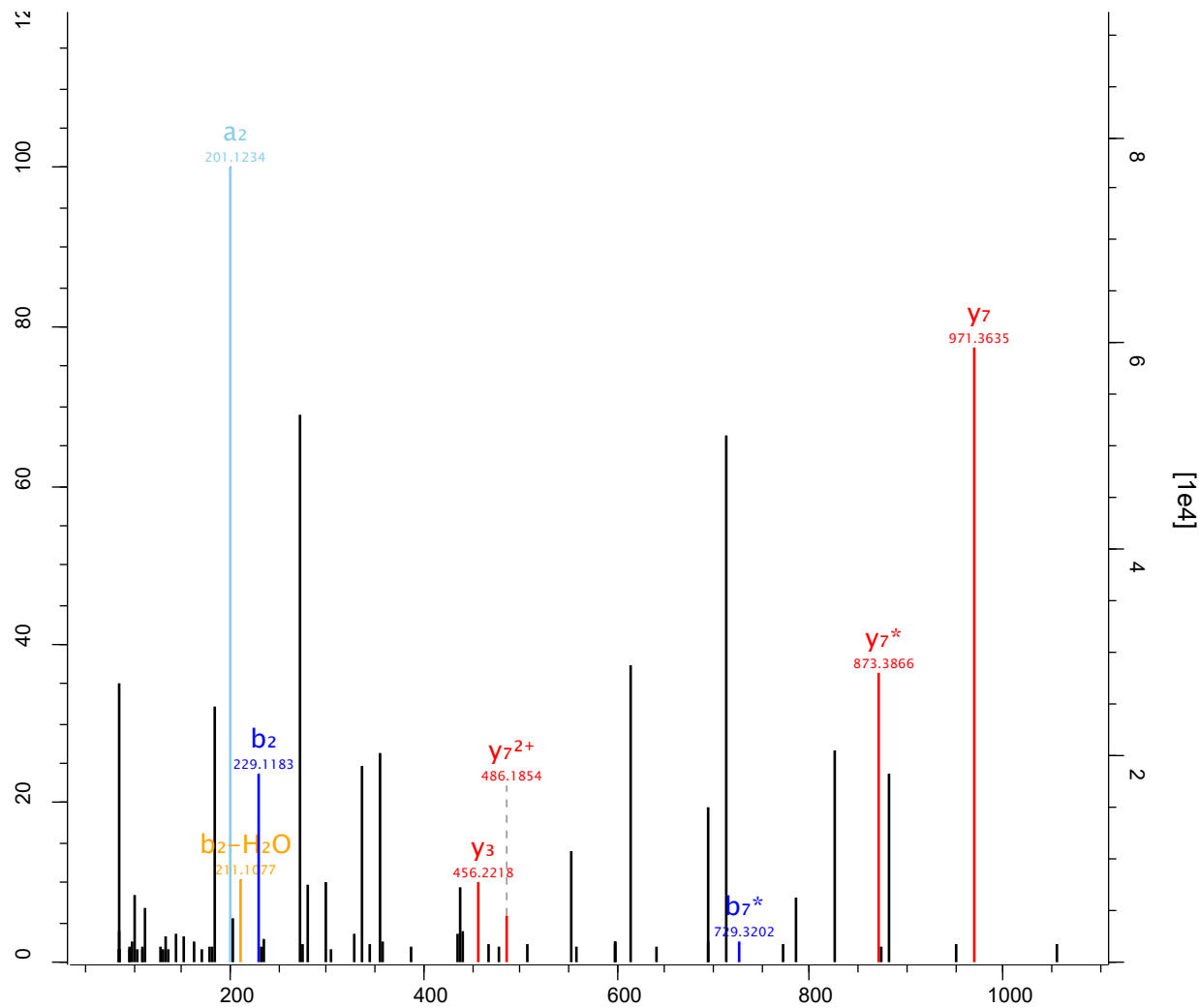
Raw file Scan Method Score m/z
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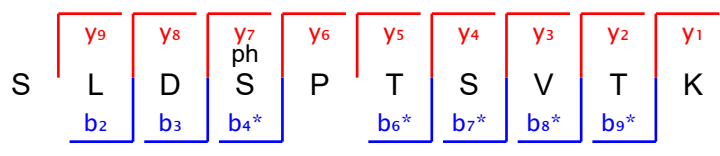
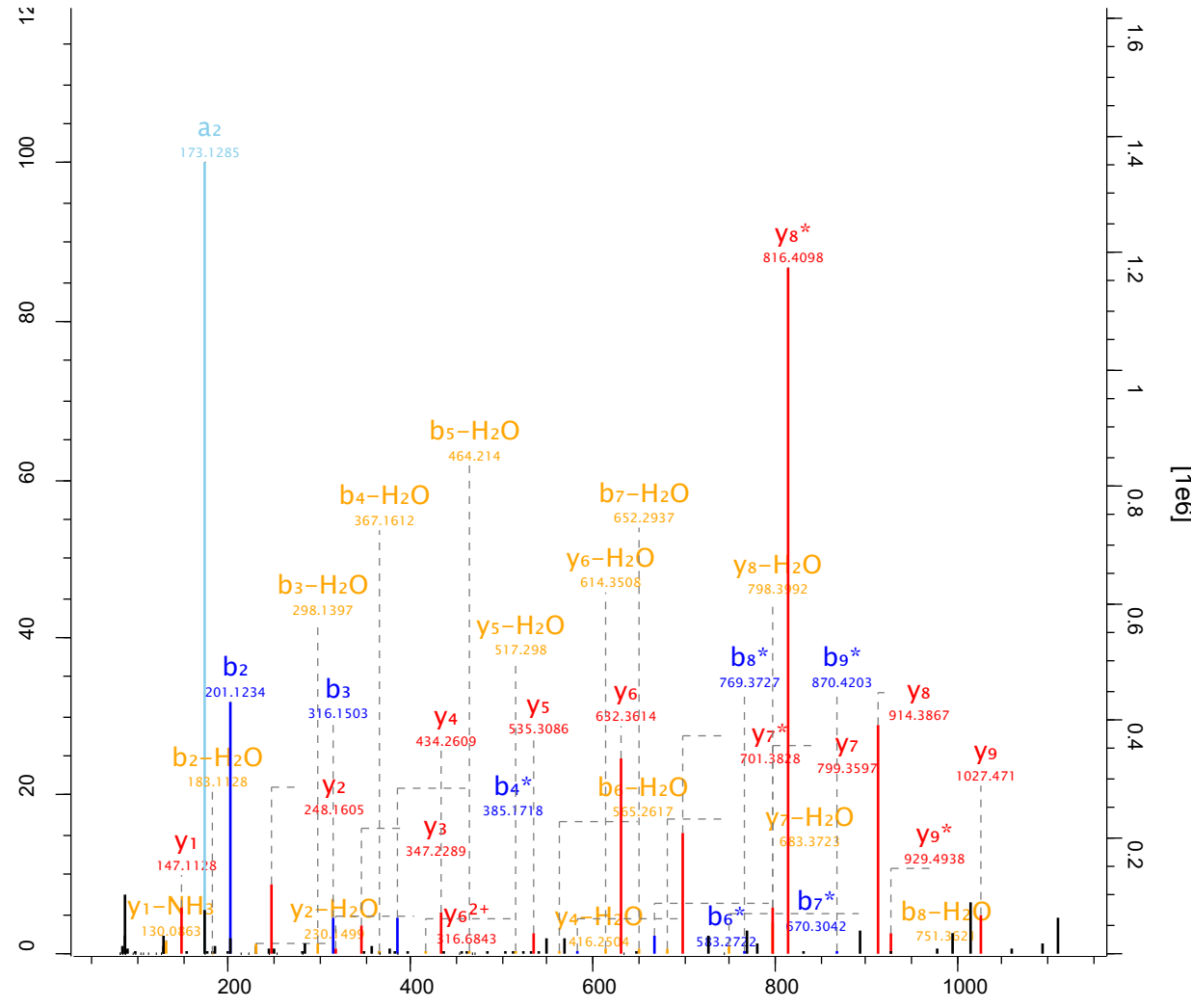
Raw file Scan Method Score m/z
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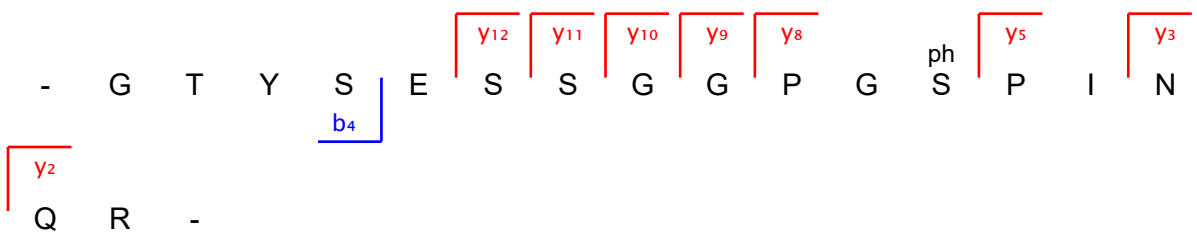
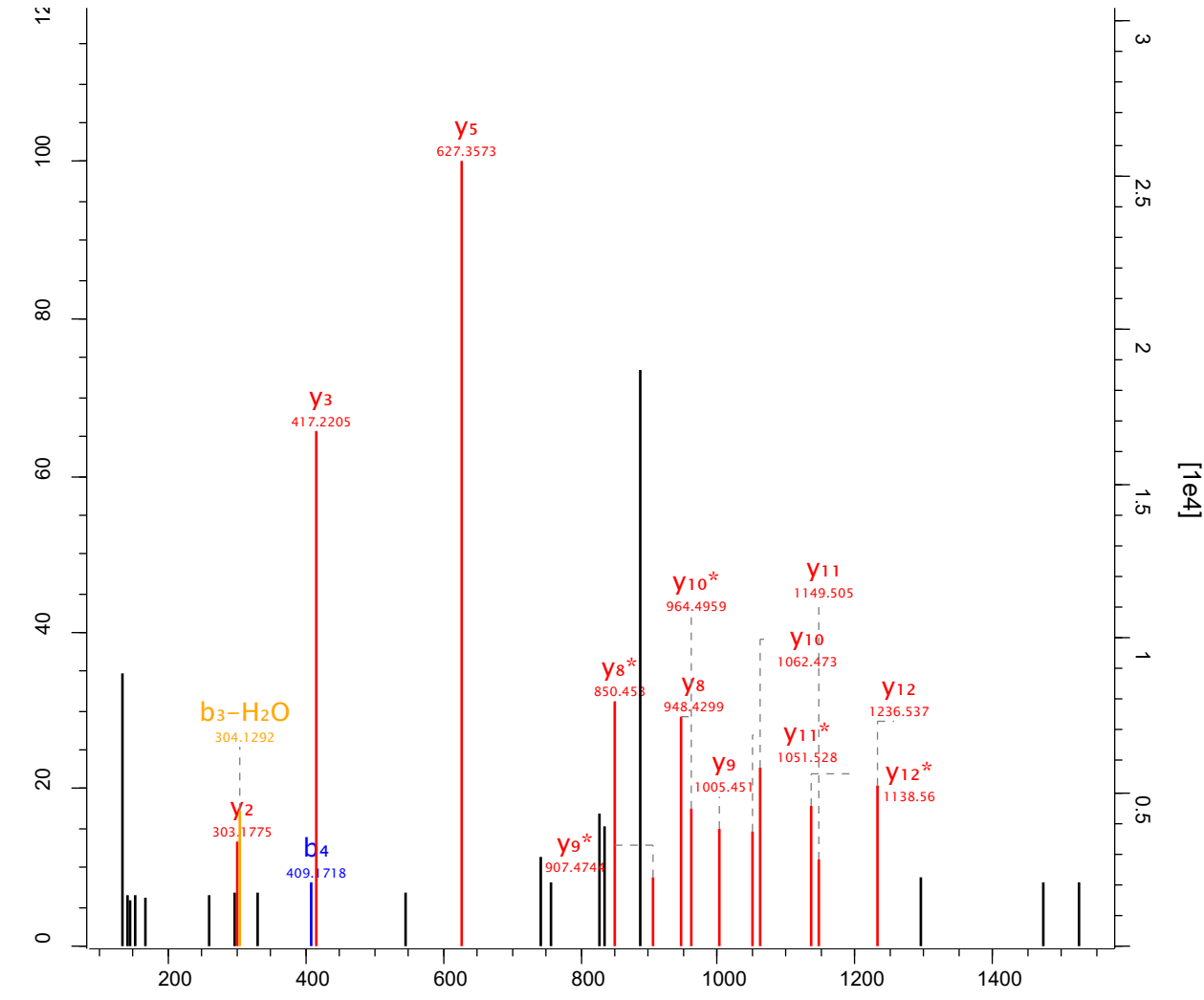
| Raw file | Scan | Method | Score | m/z |
|----------|-------|-----------|-------|--------|
| sys_15_1 | 10454 | FTMS; HCD | 41.45 | 600.24 |



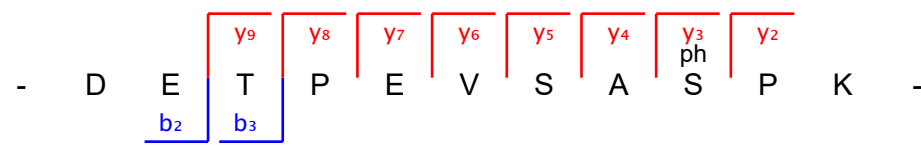
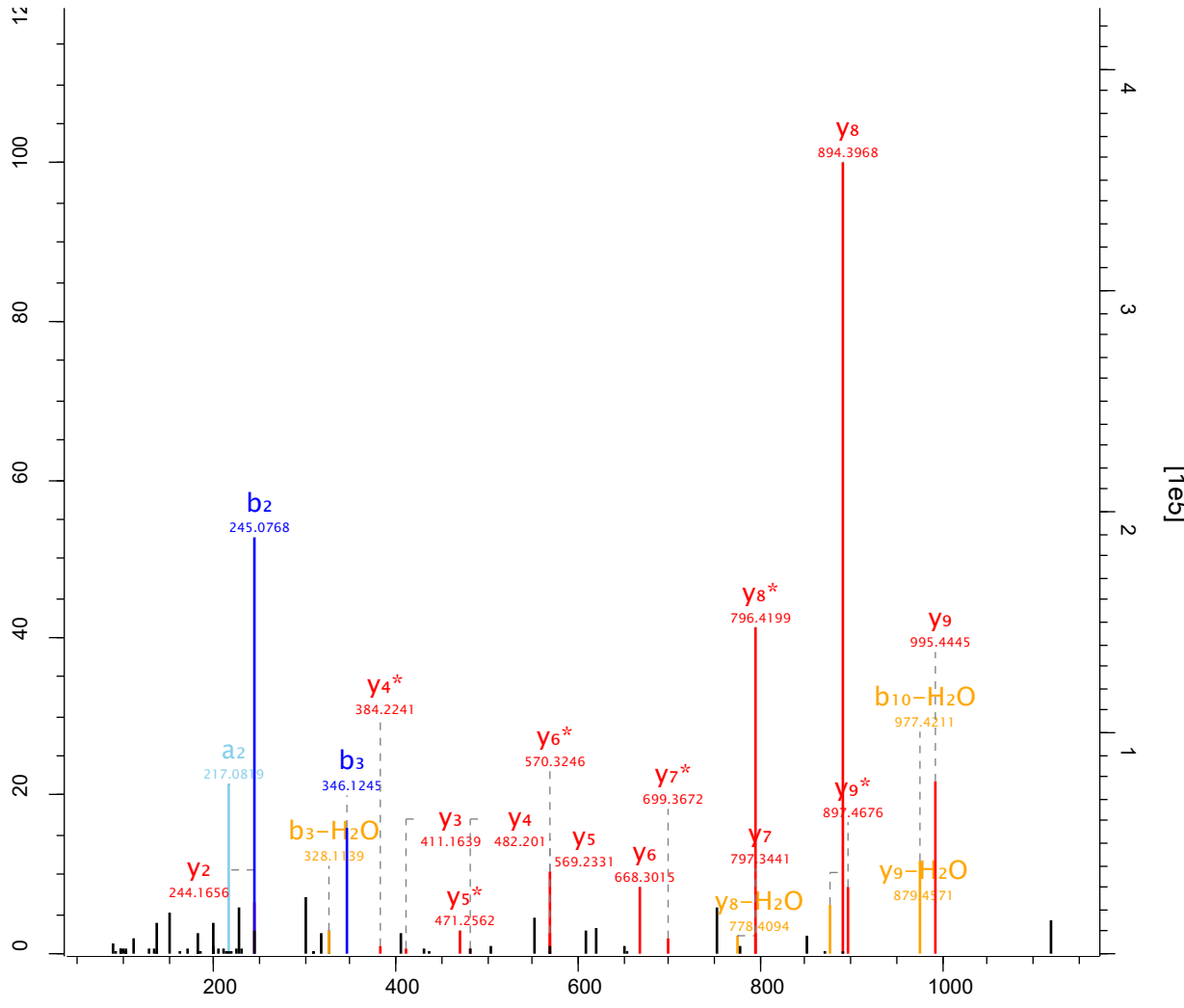
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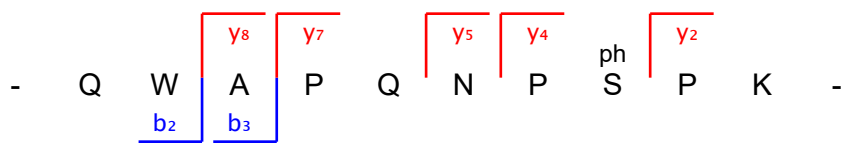
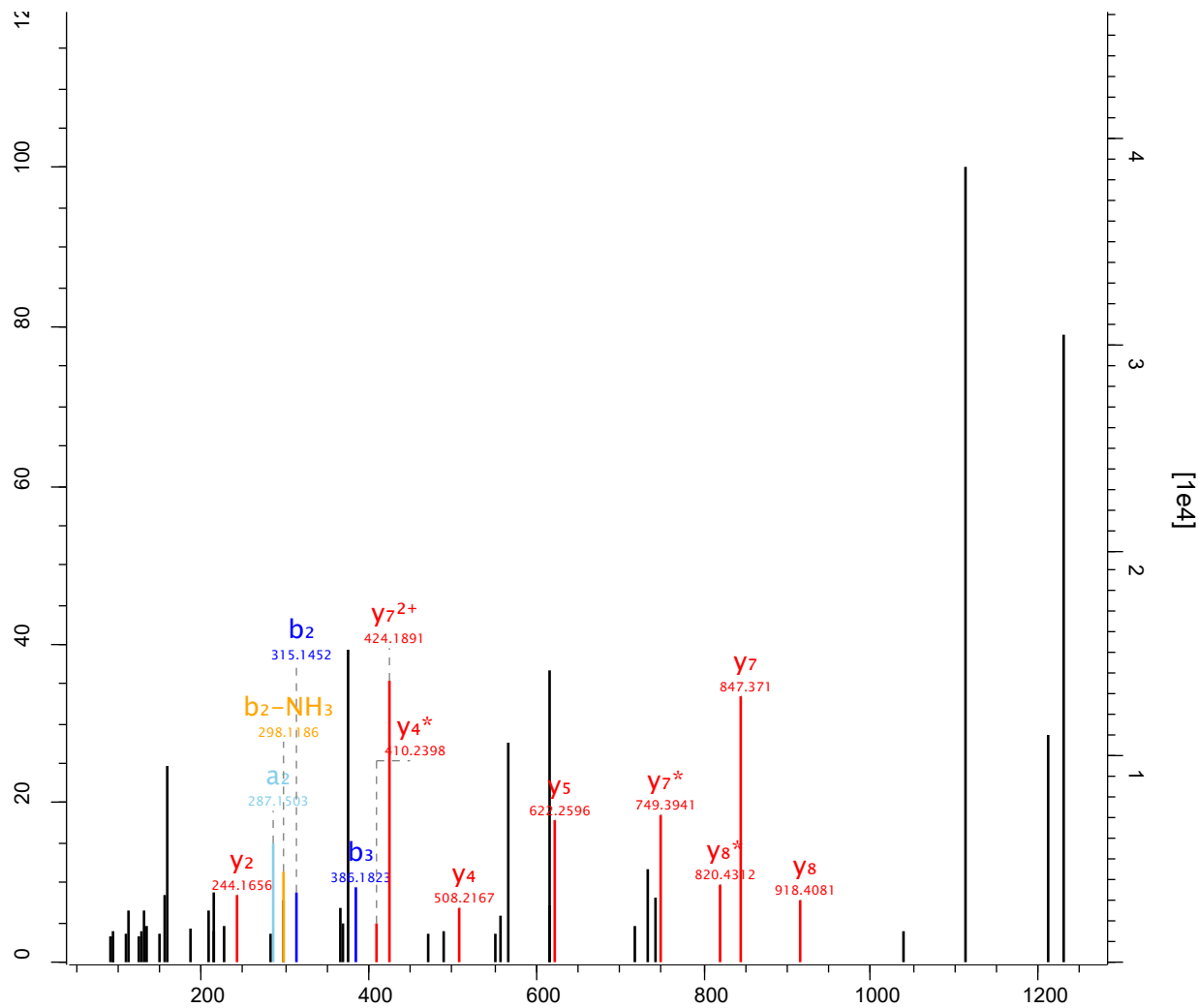
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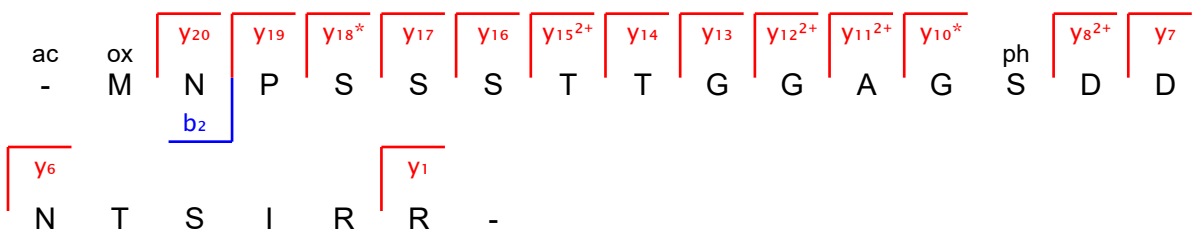
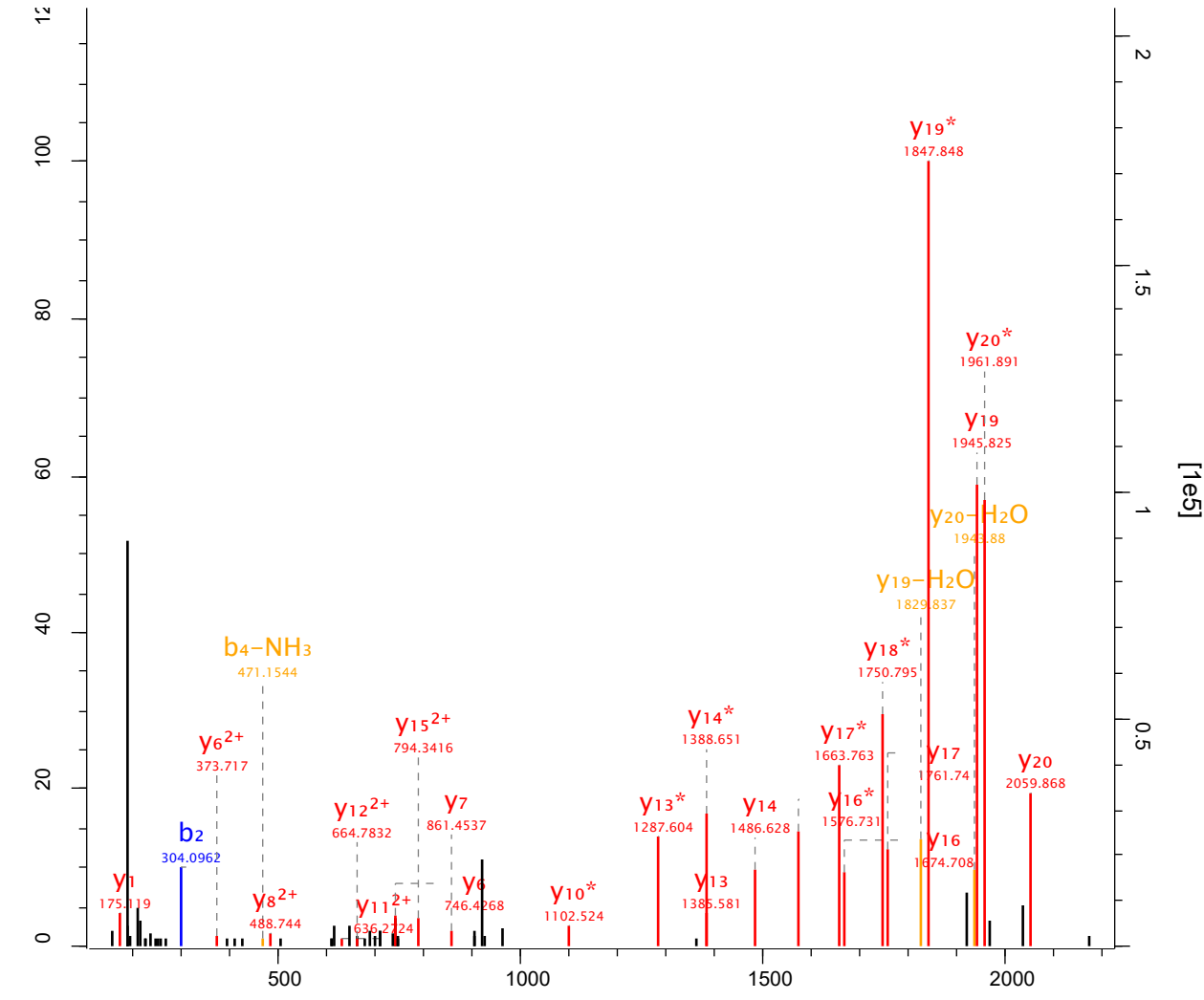
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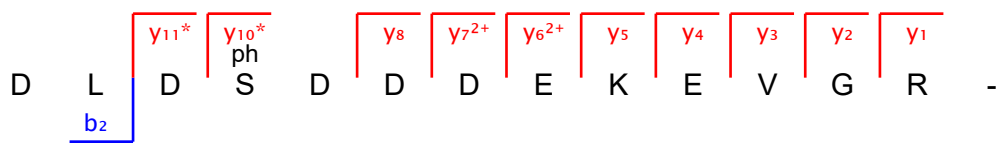
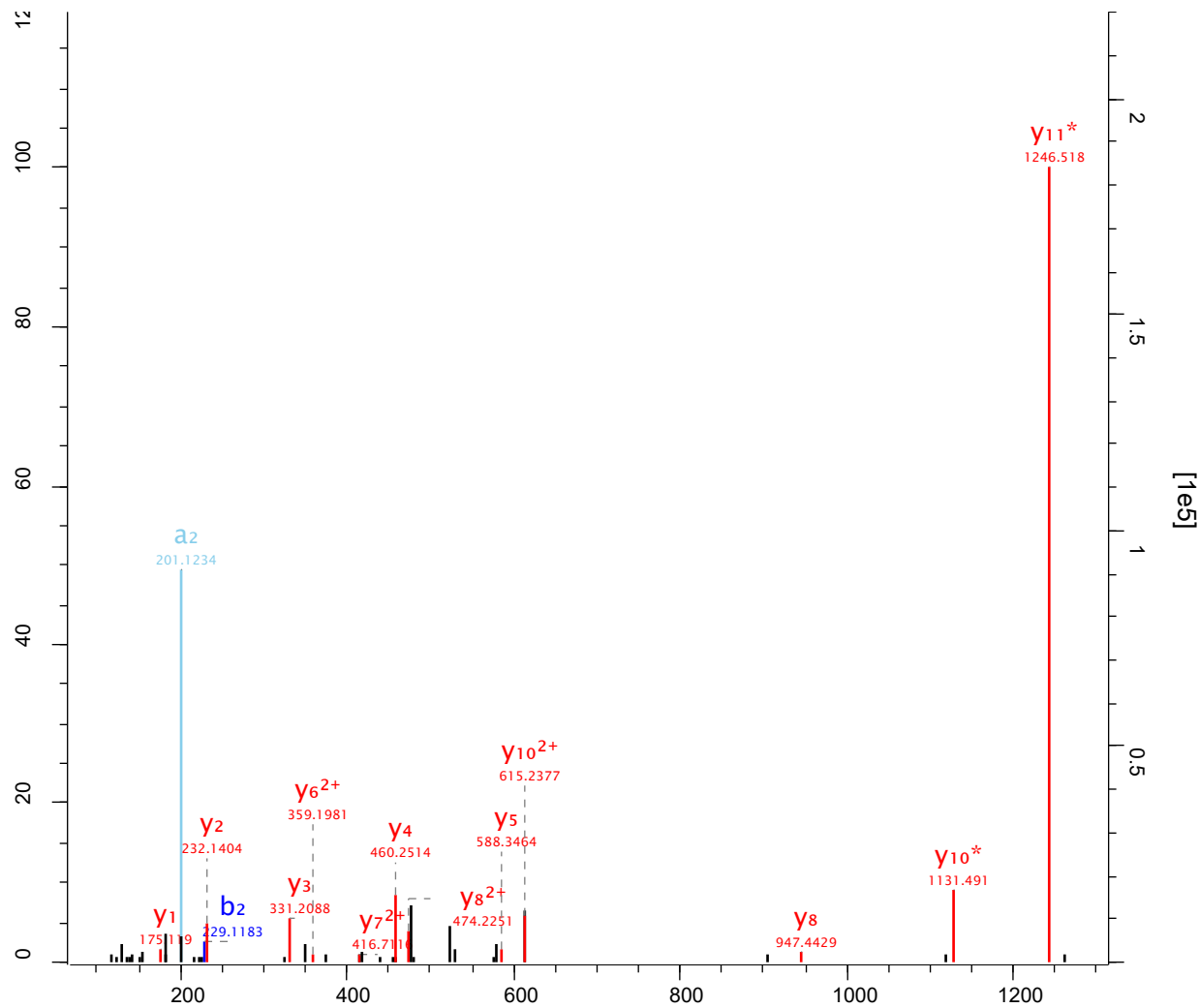
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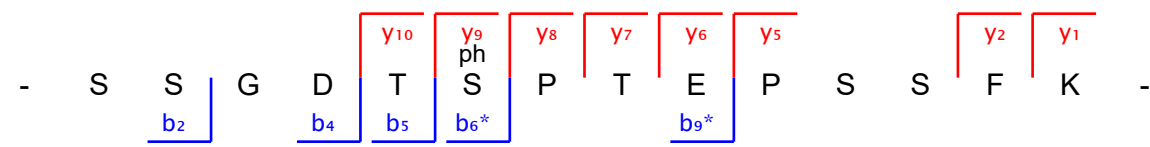
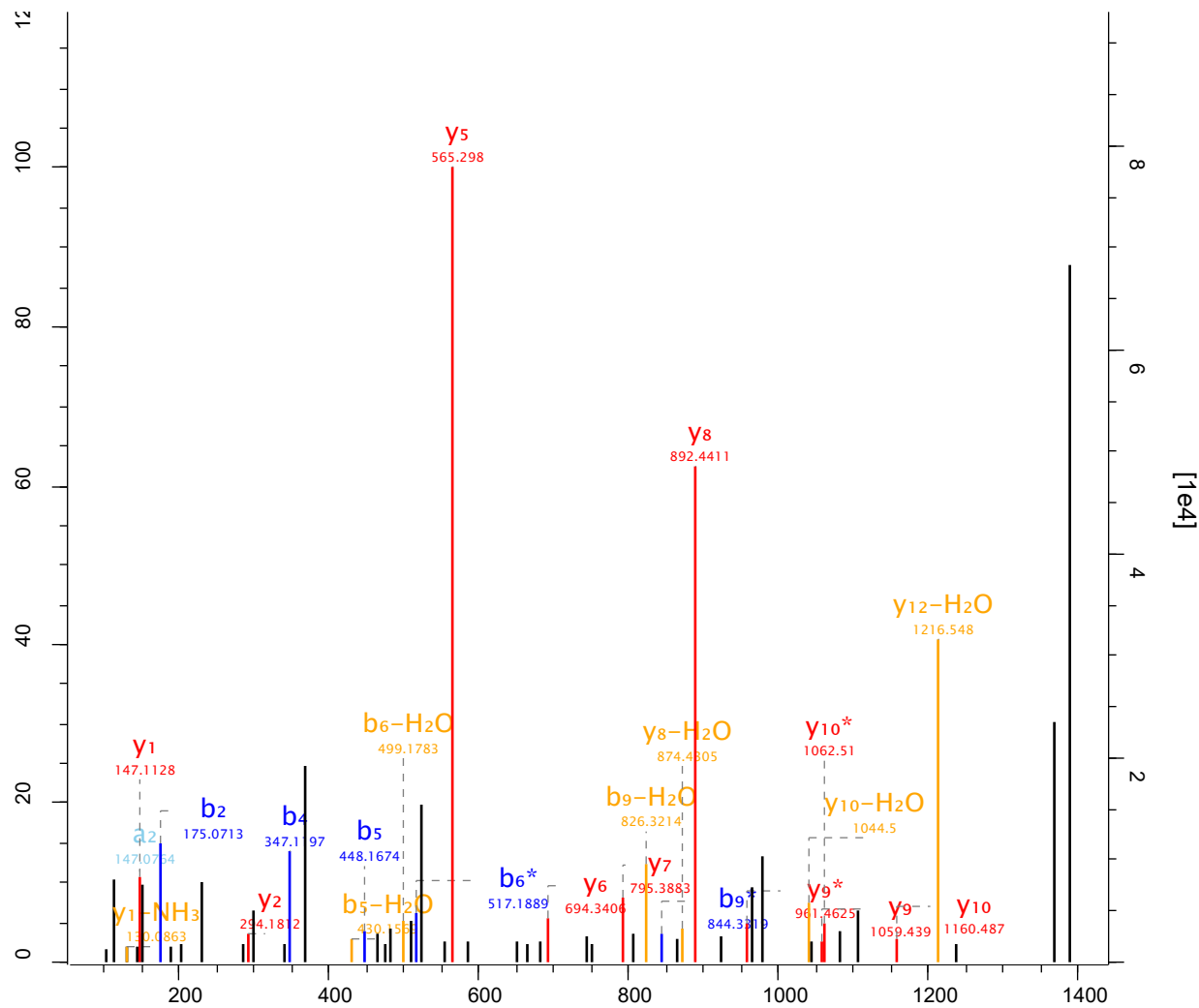
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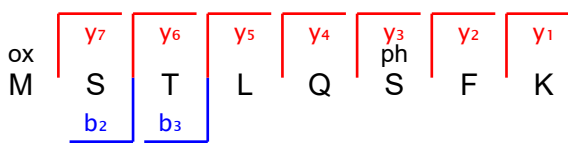
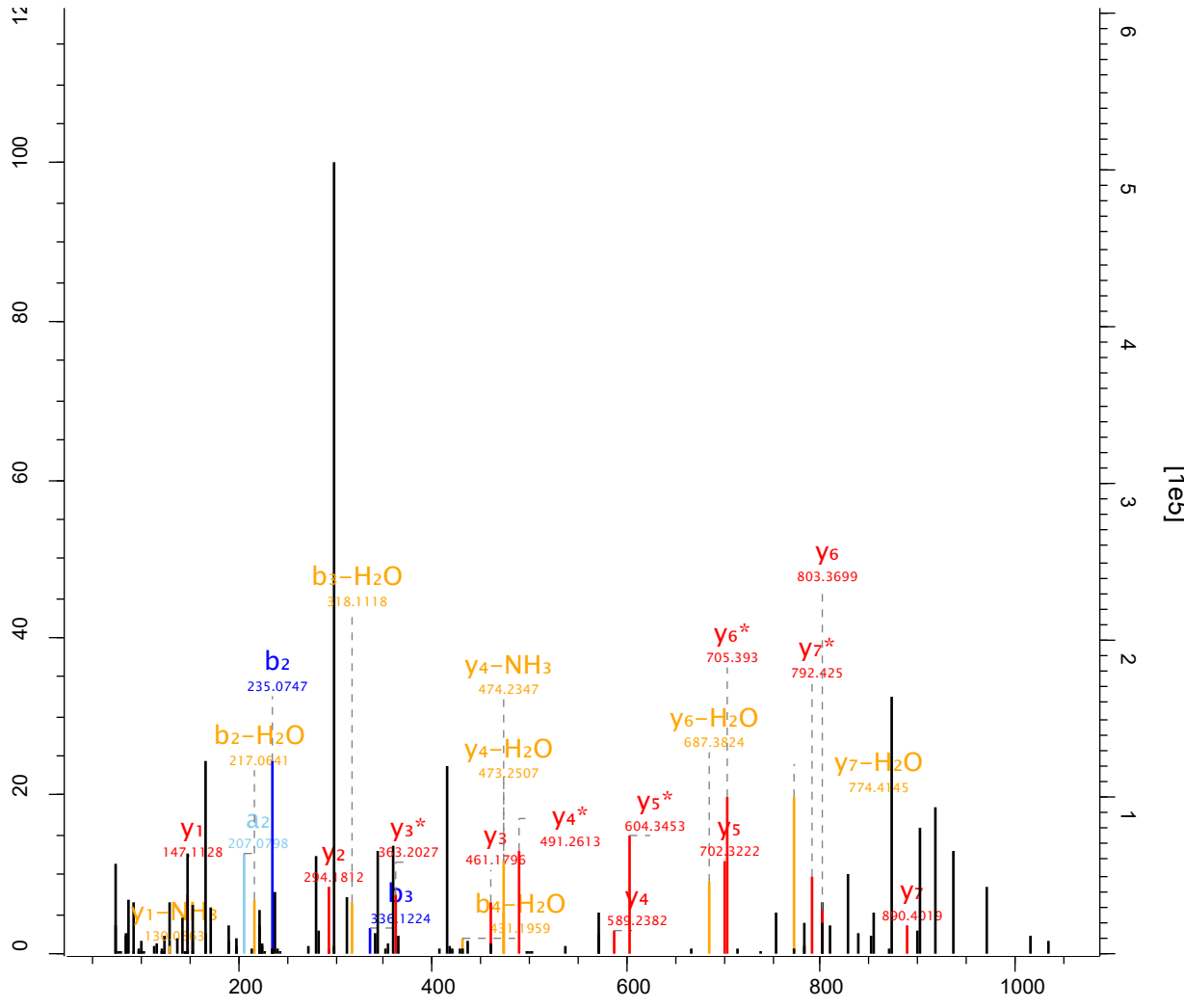
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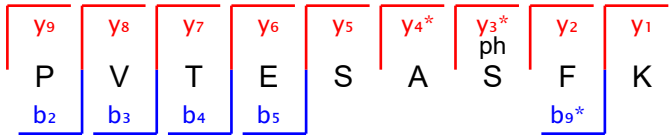
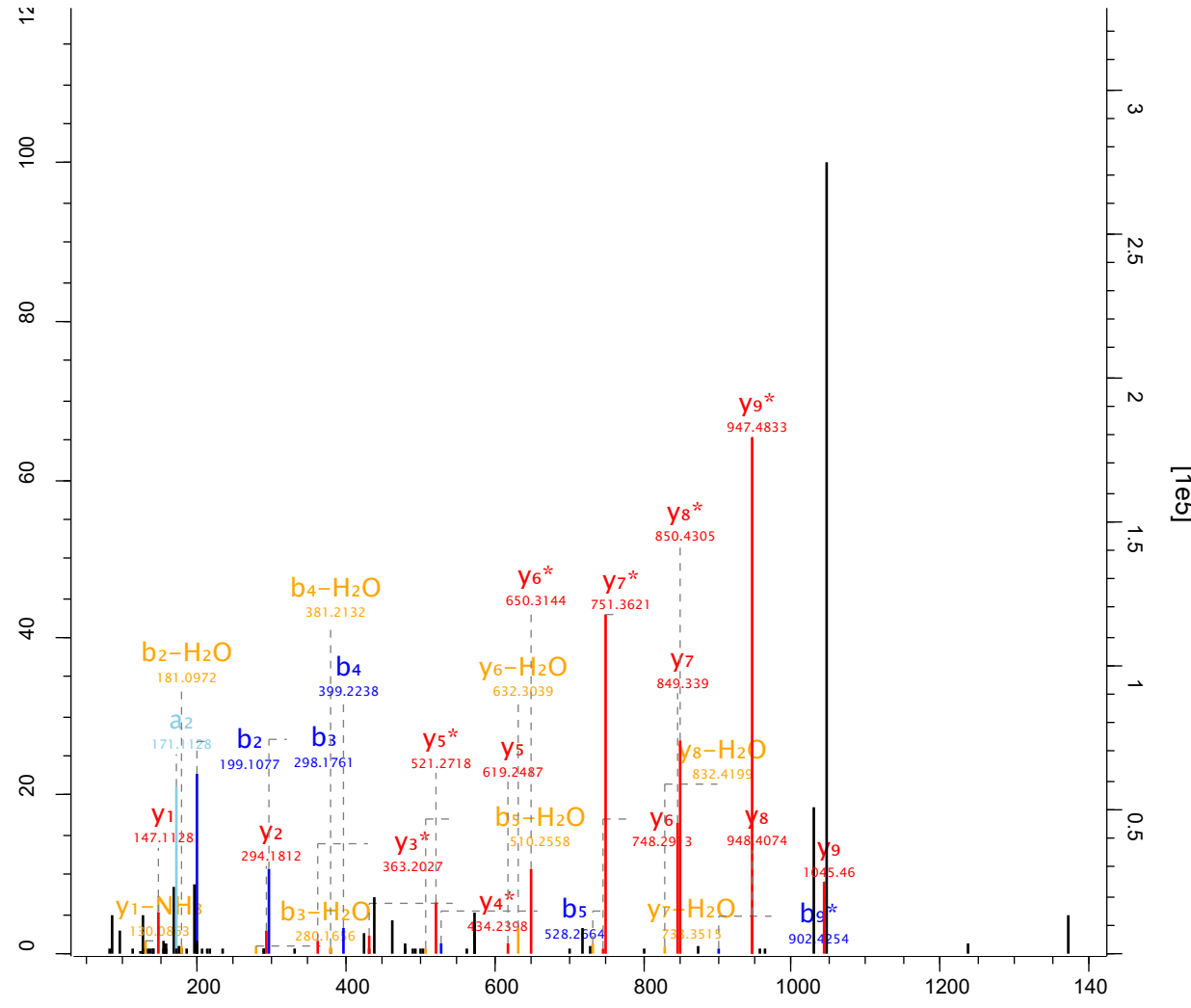
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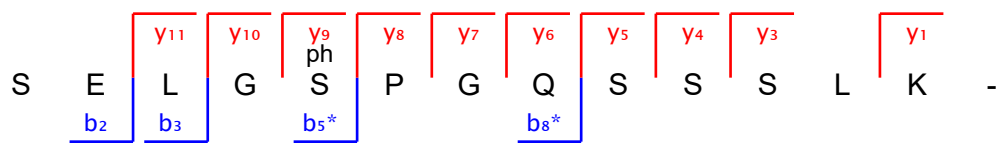
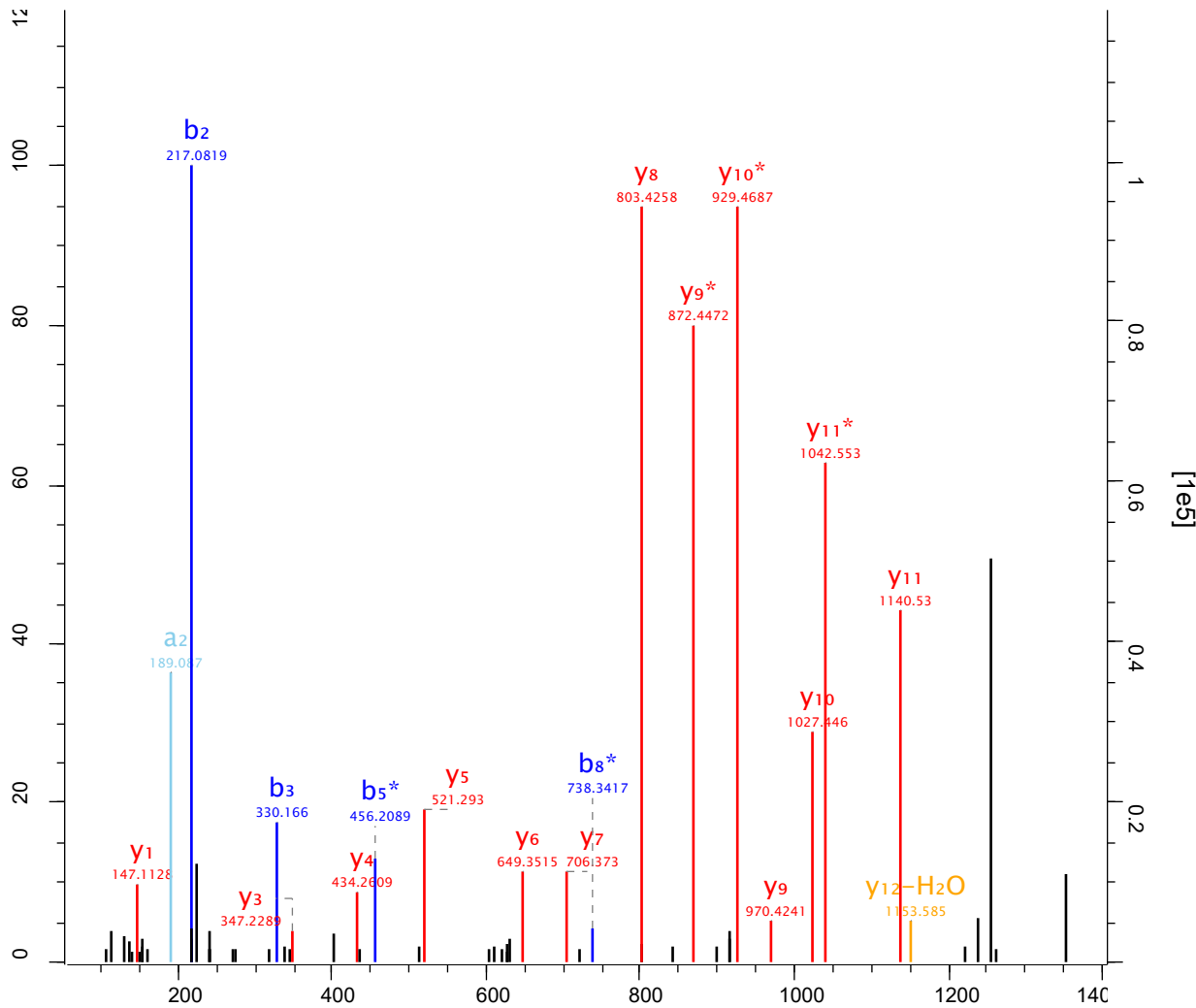
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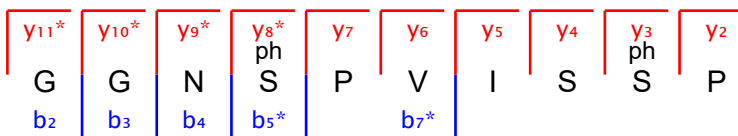
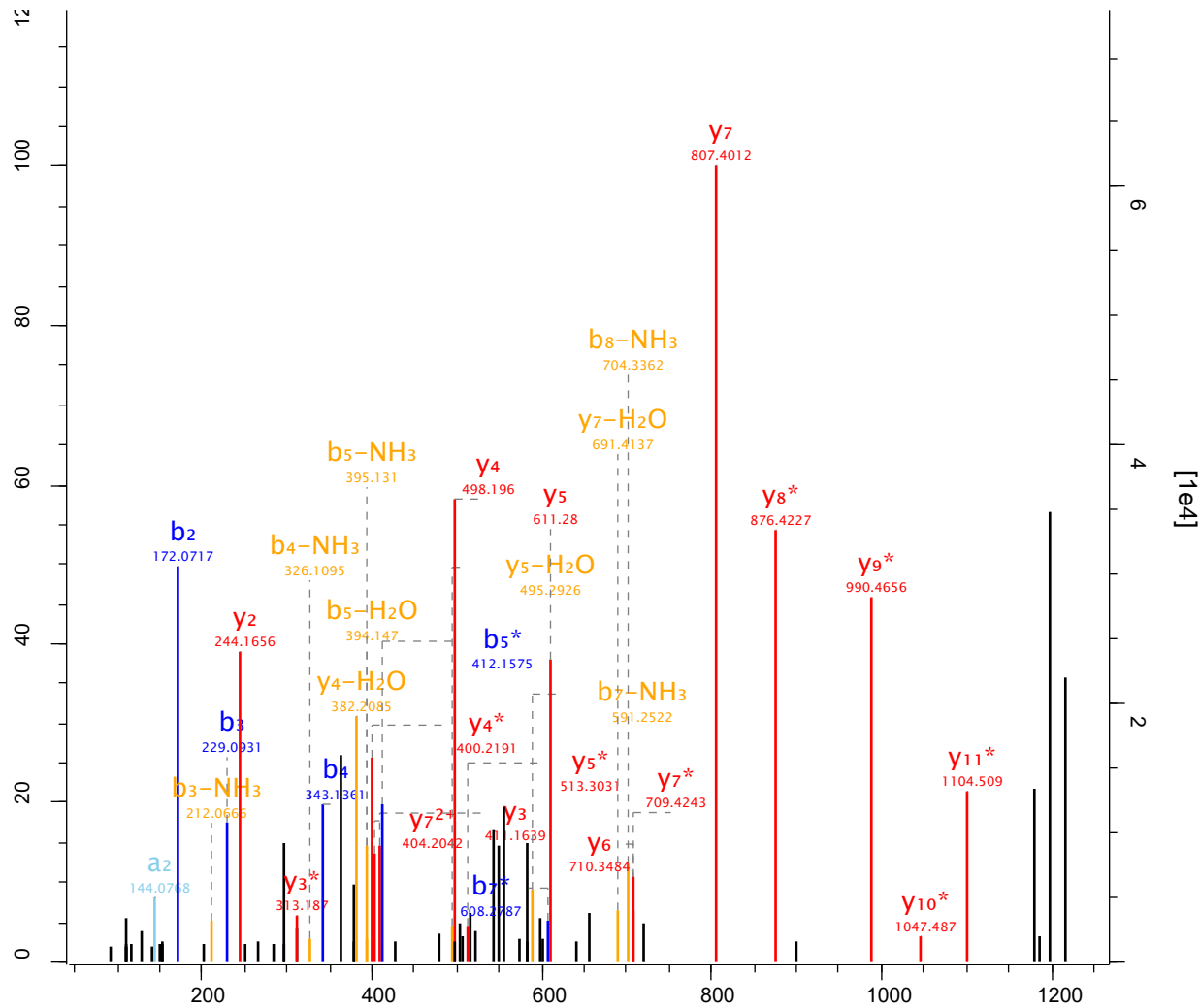
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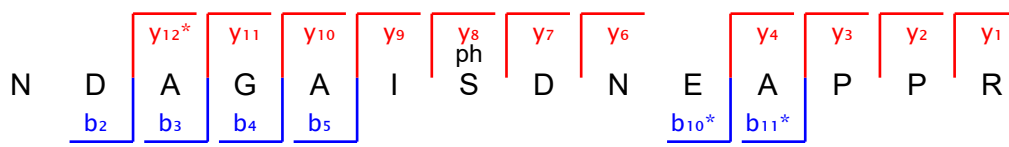
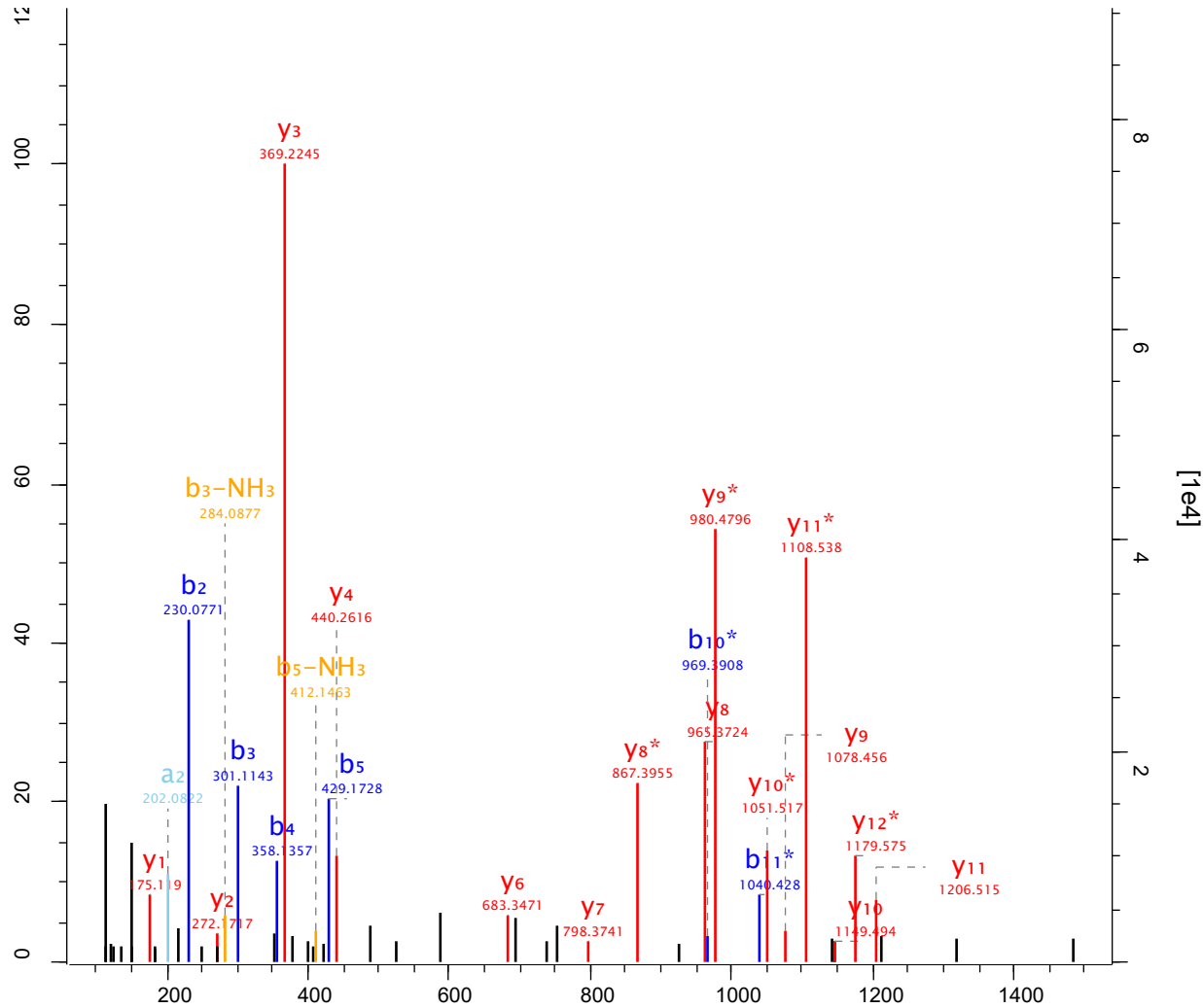
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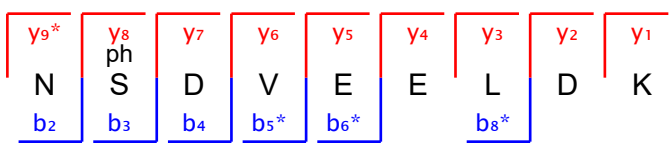
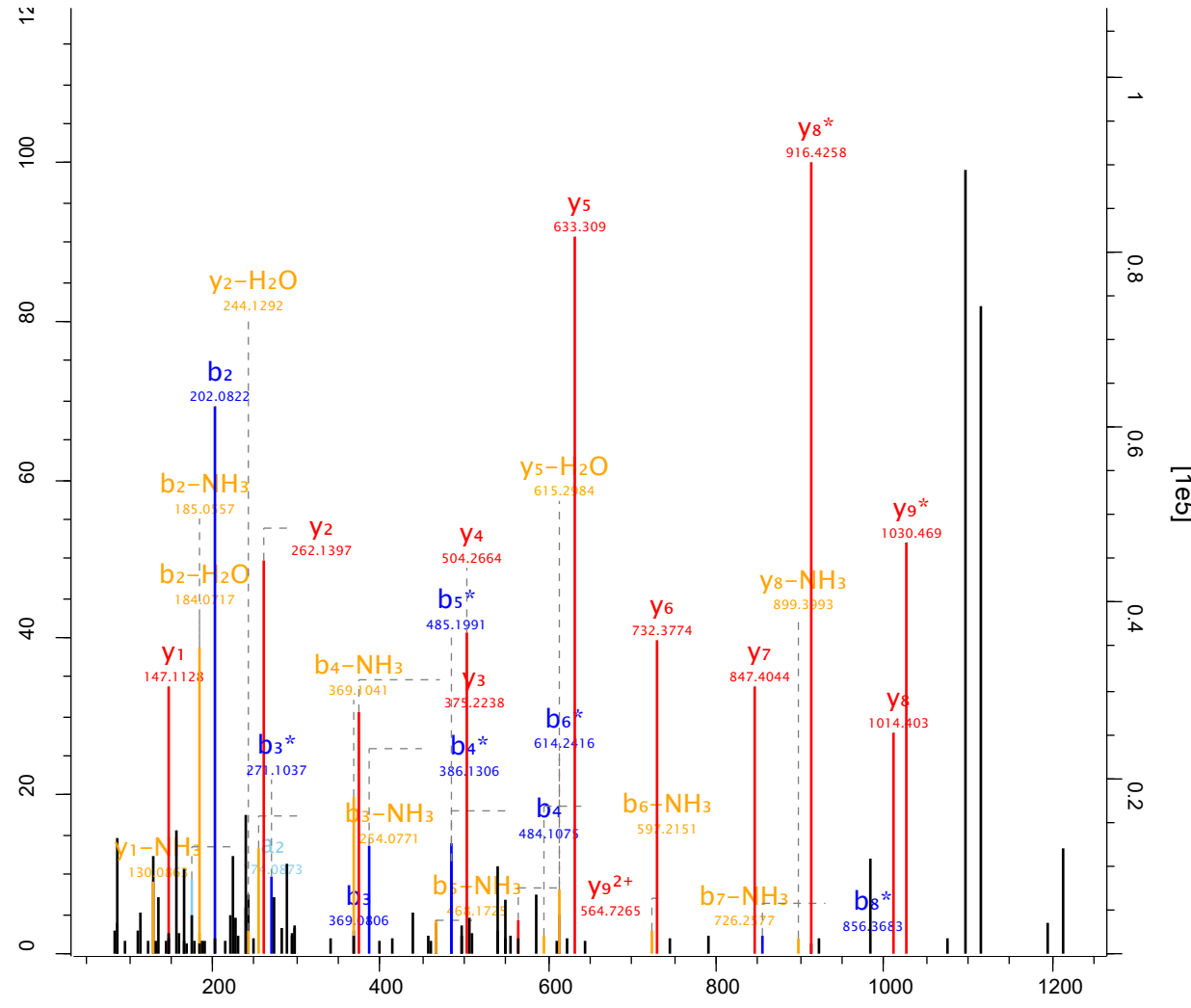
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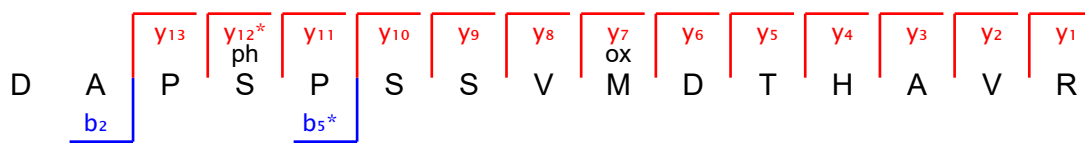
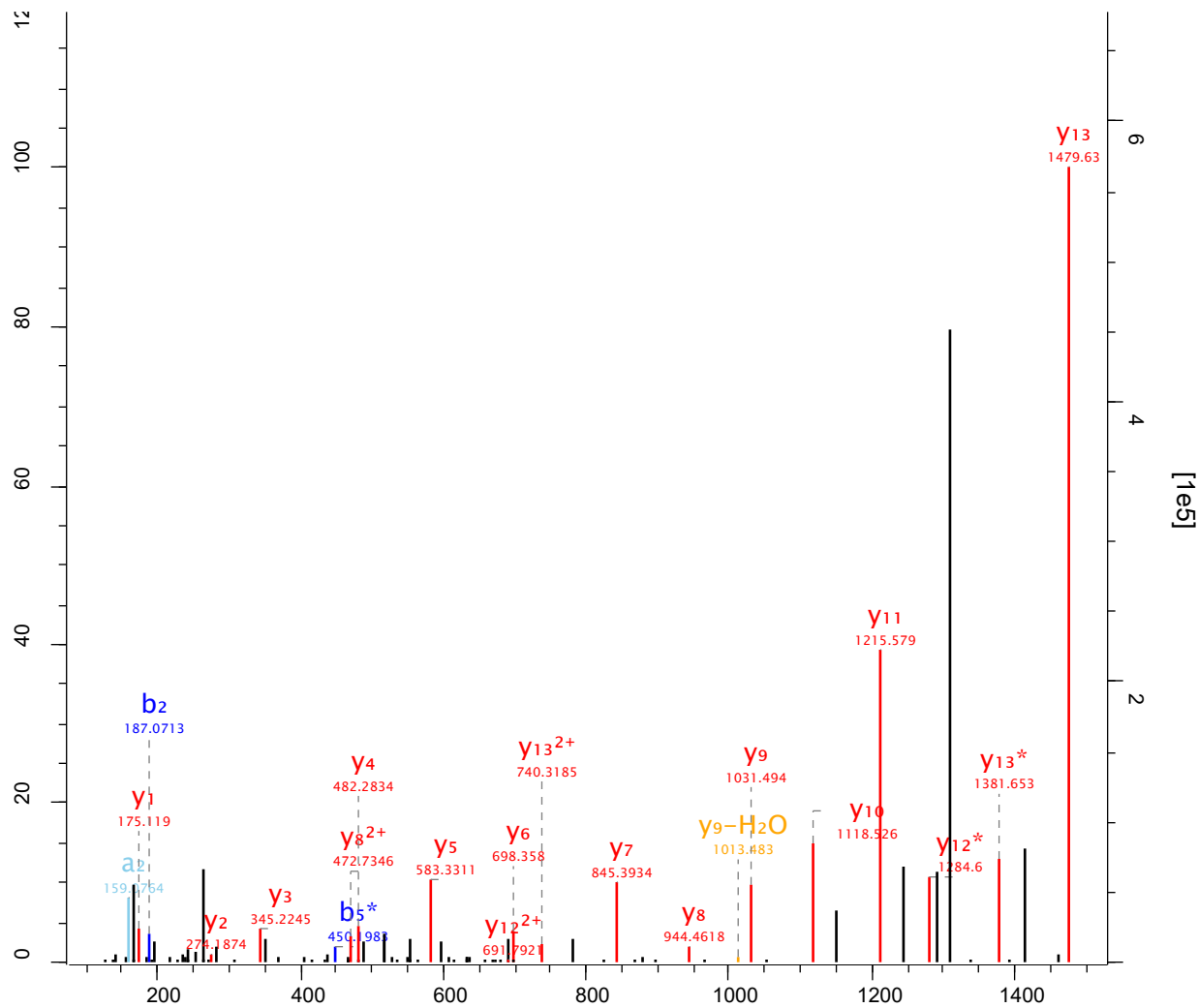
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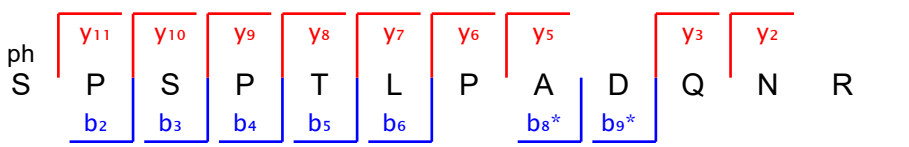
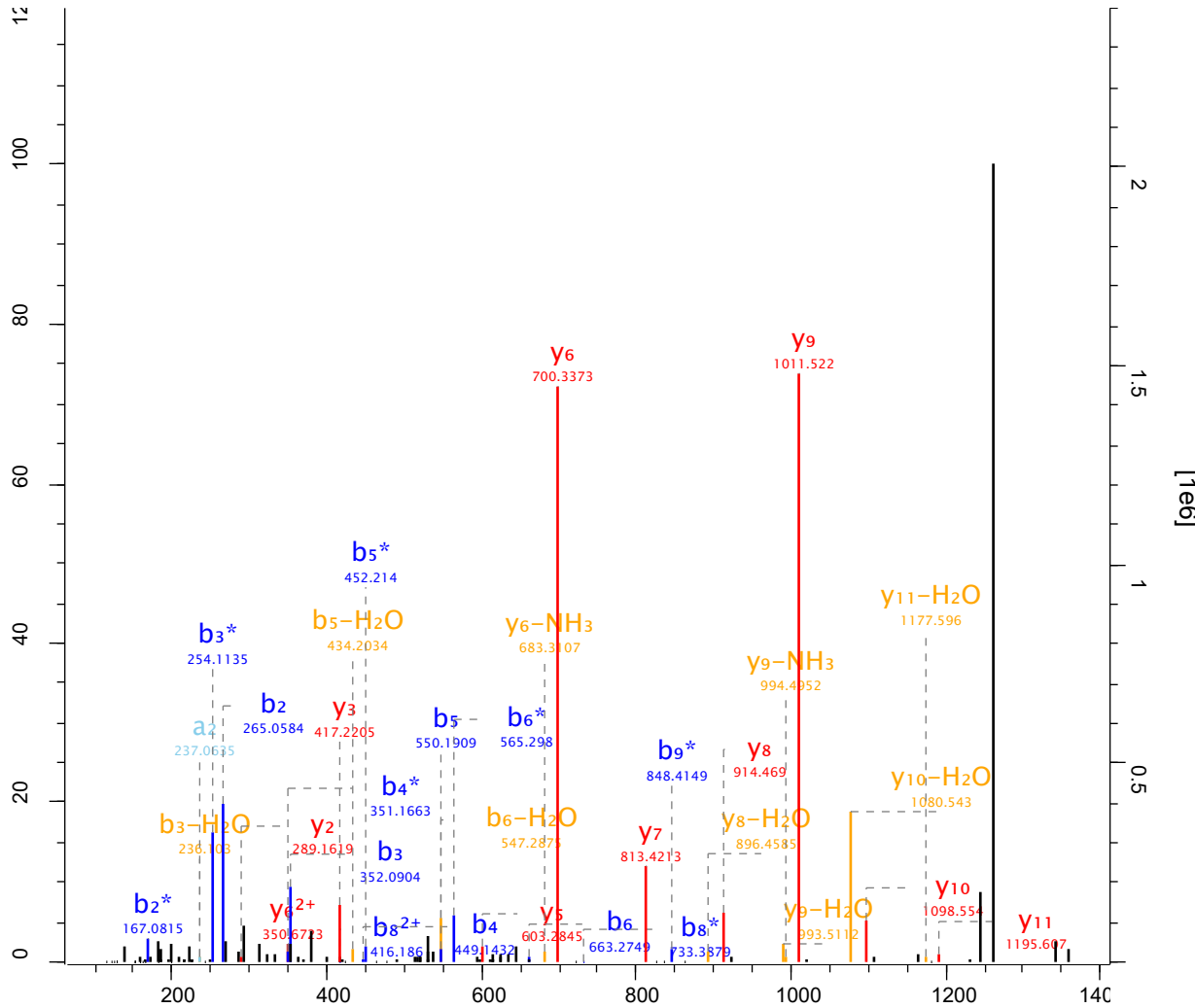
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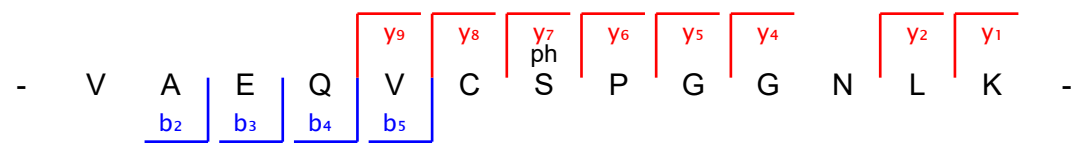
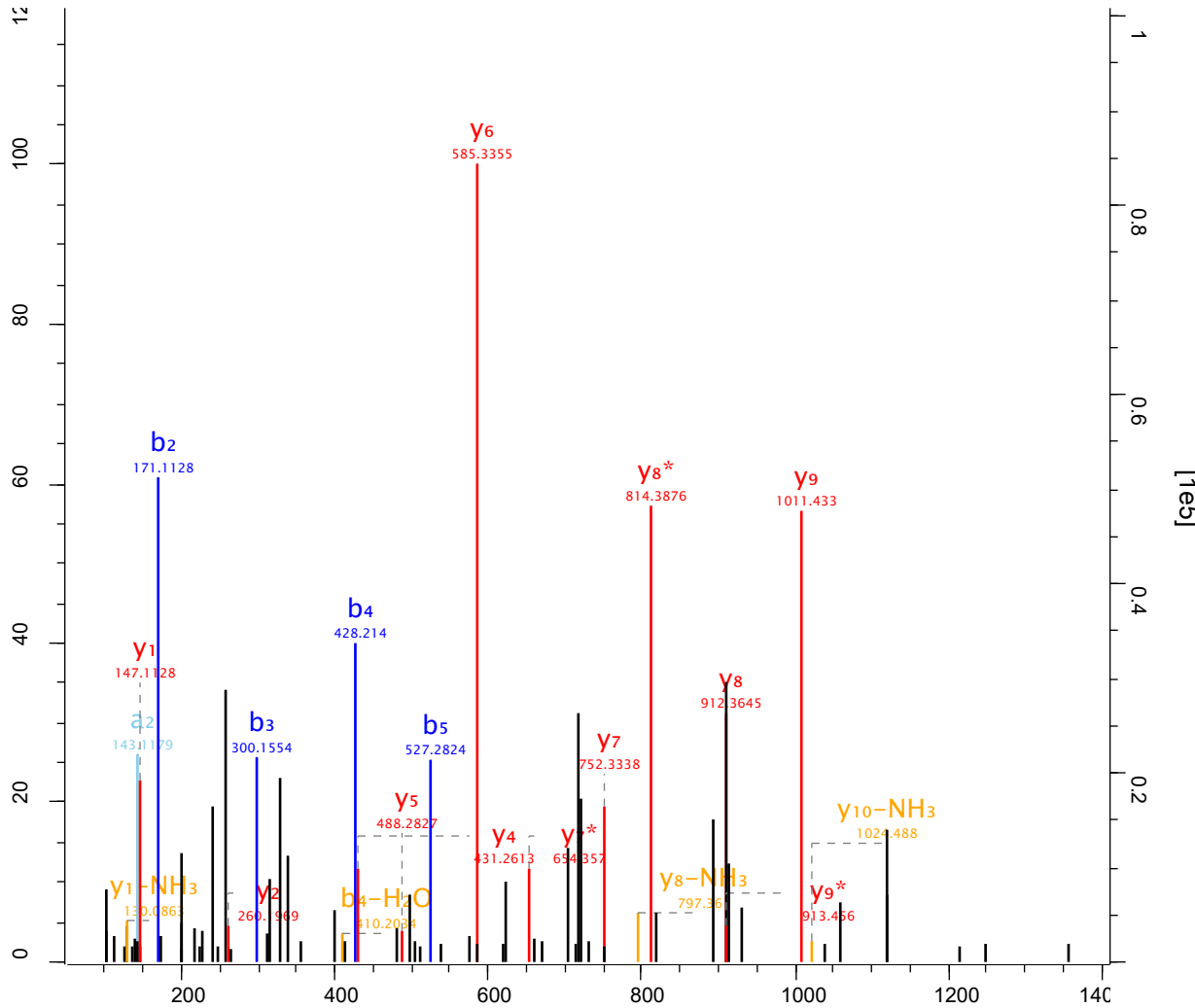
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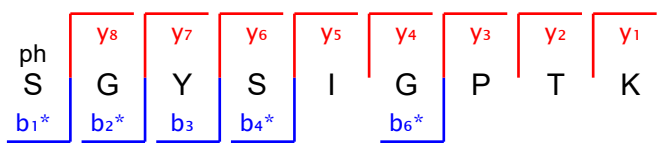
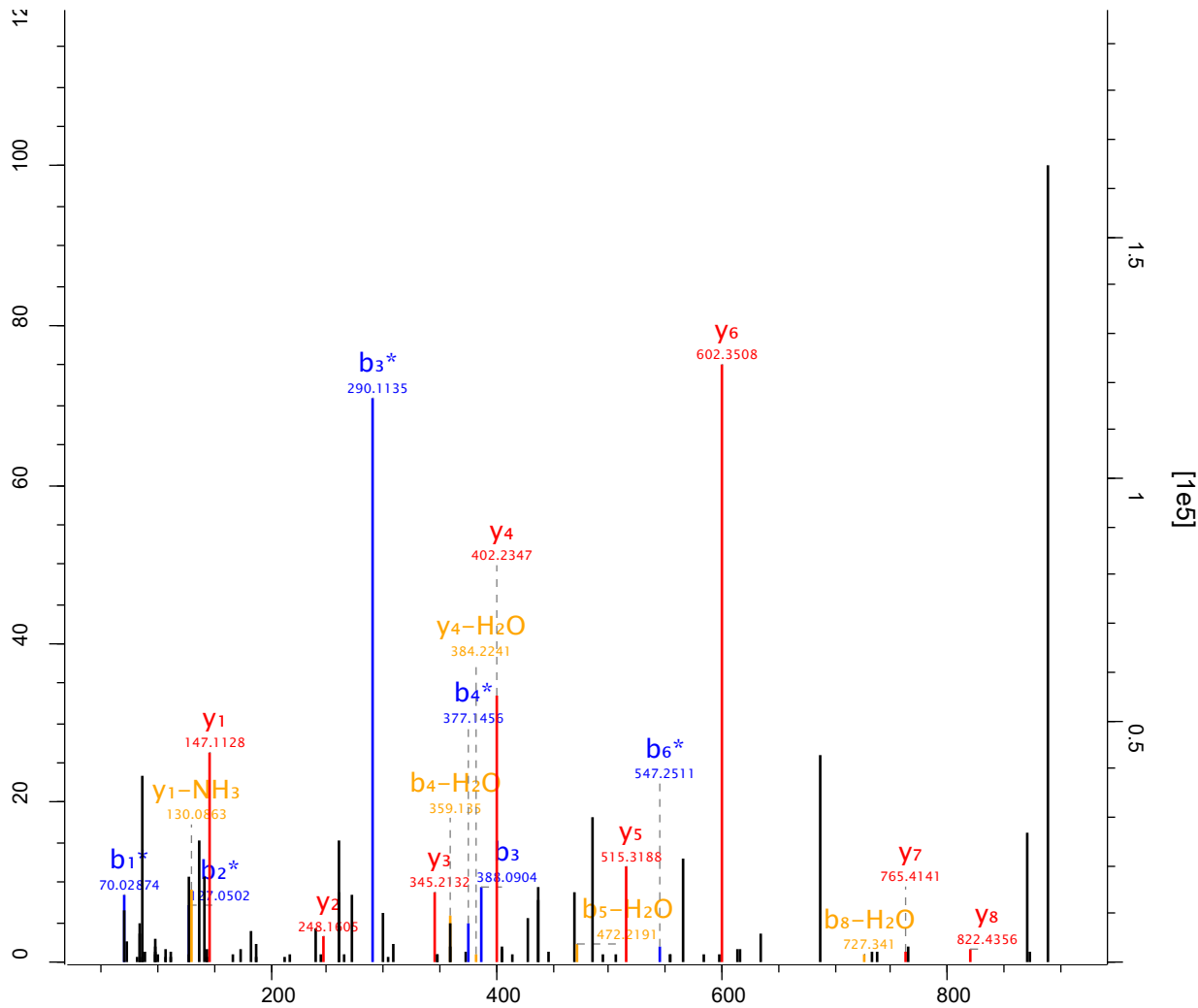
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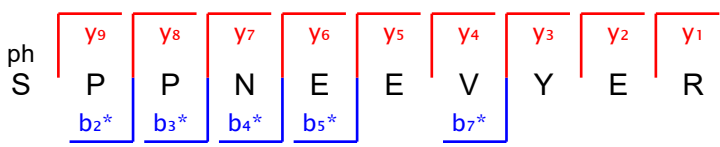
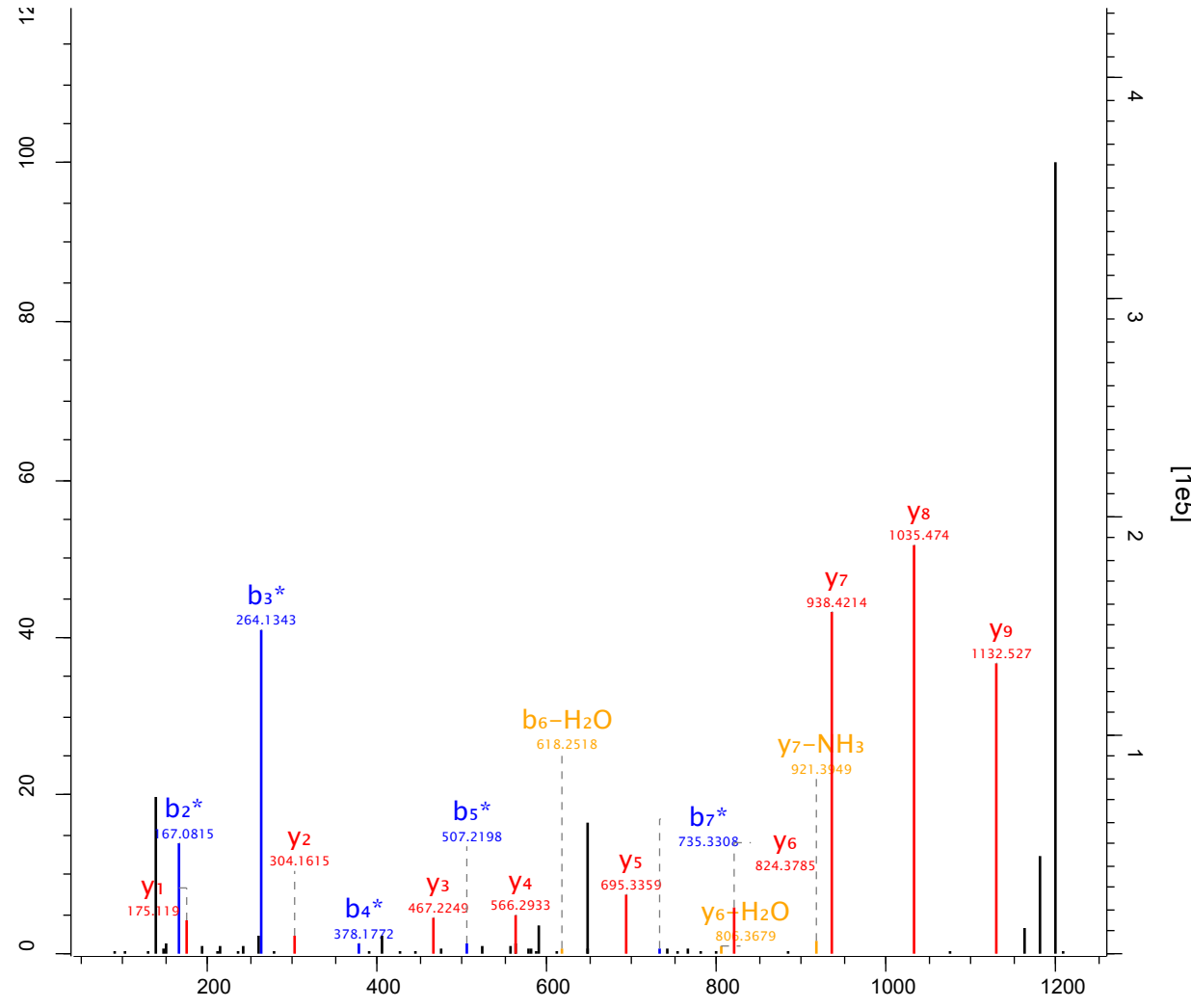
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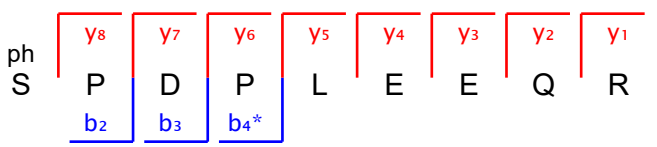
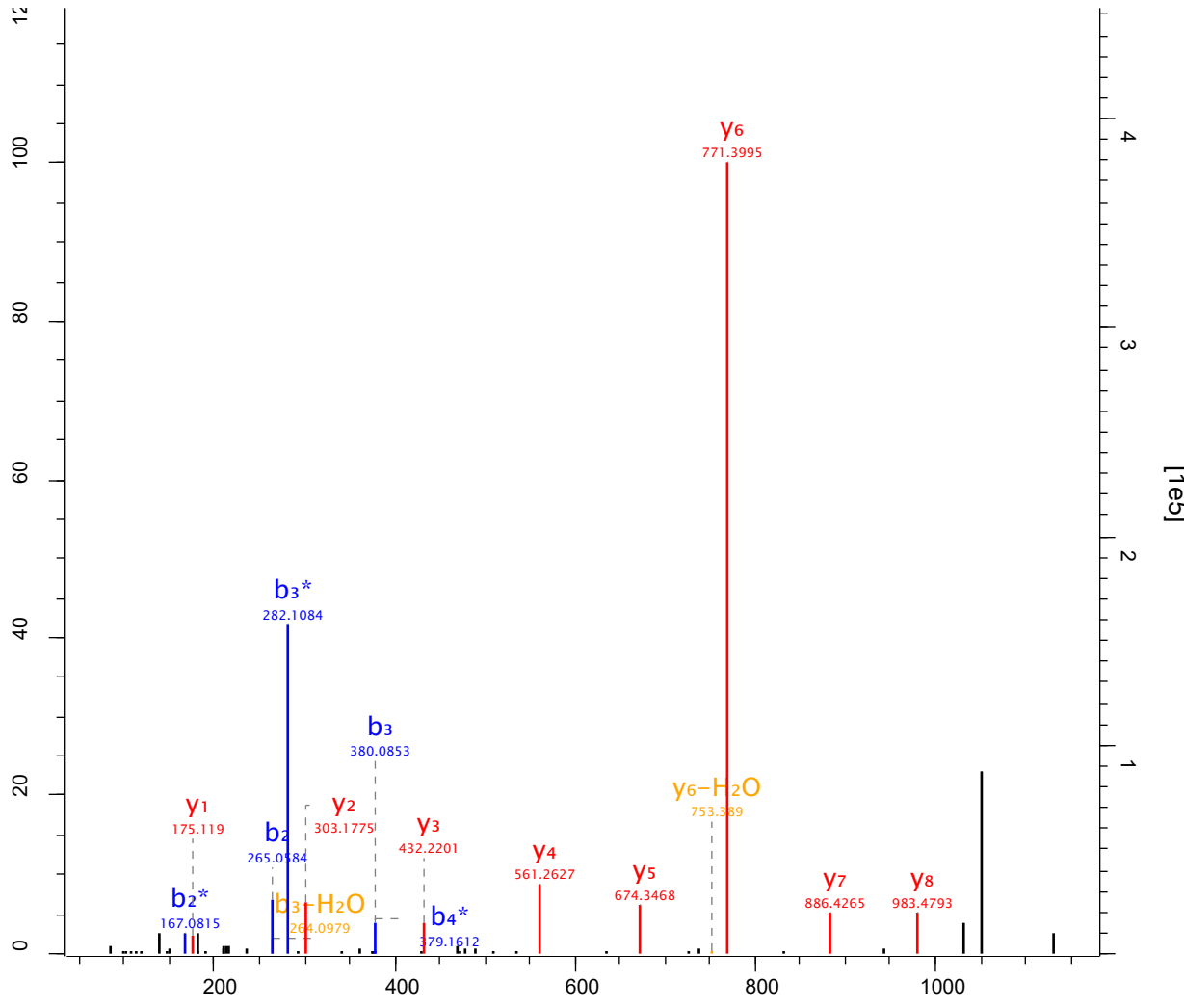
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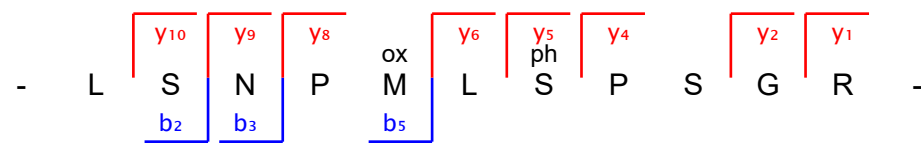
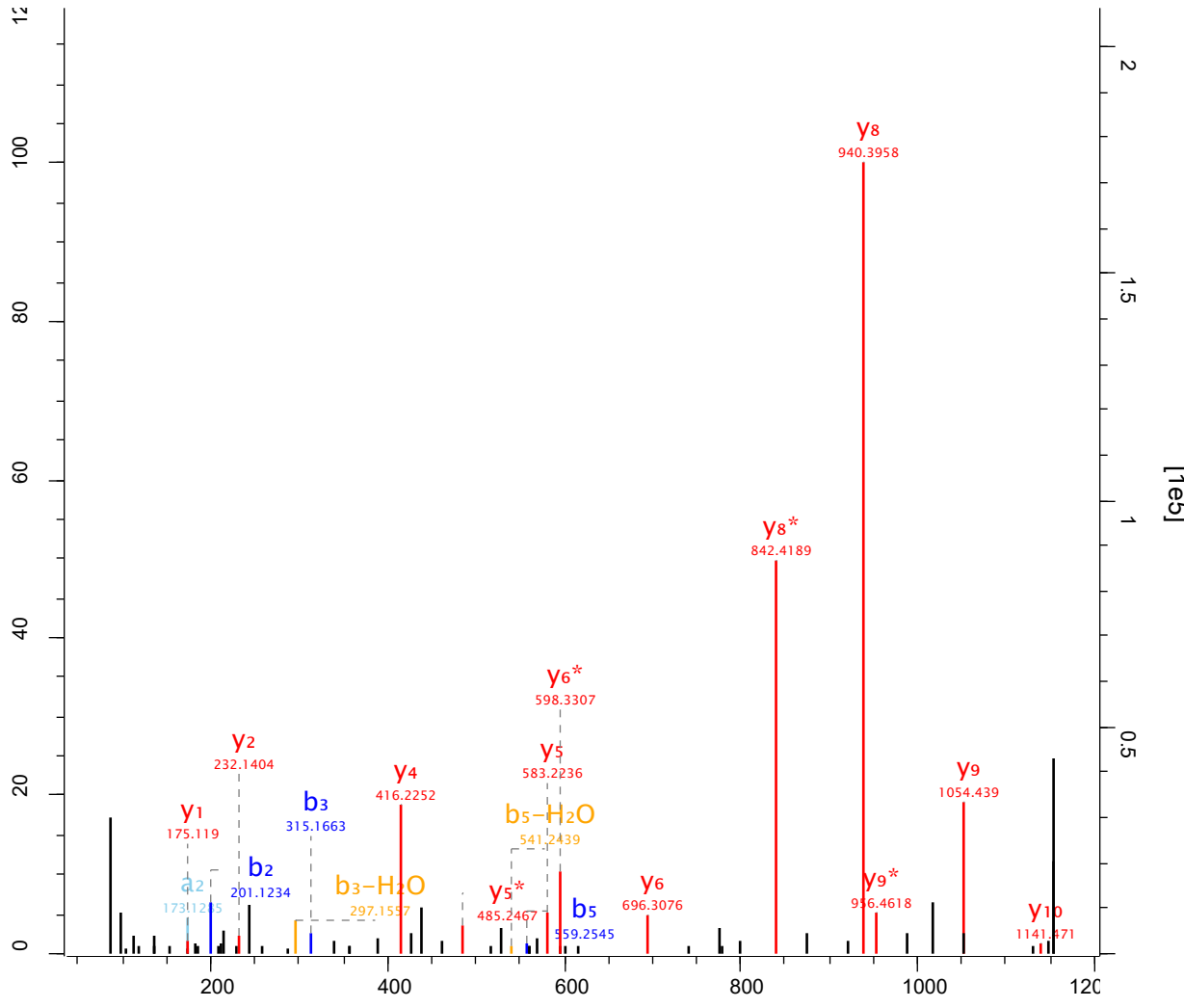
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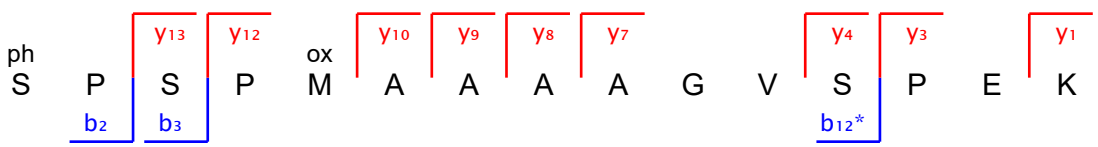
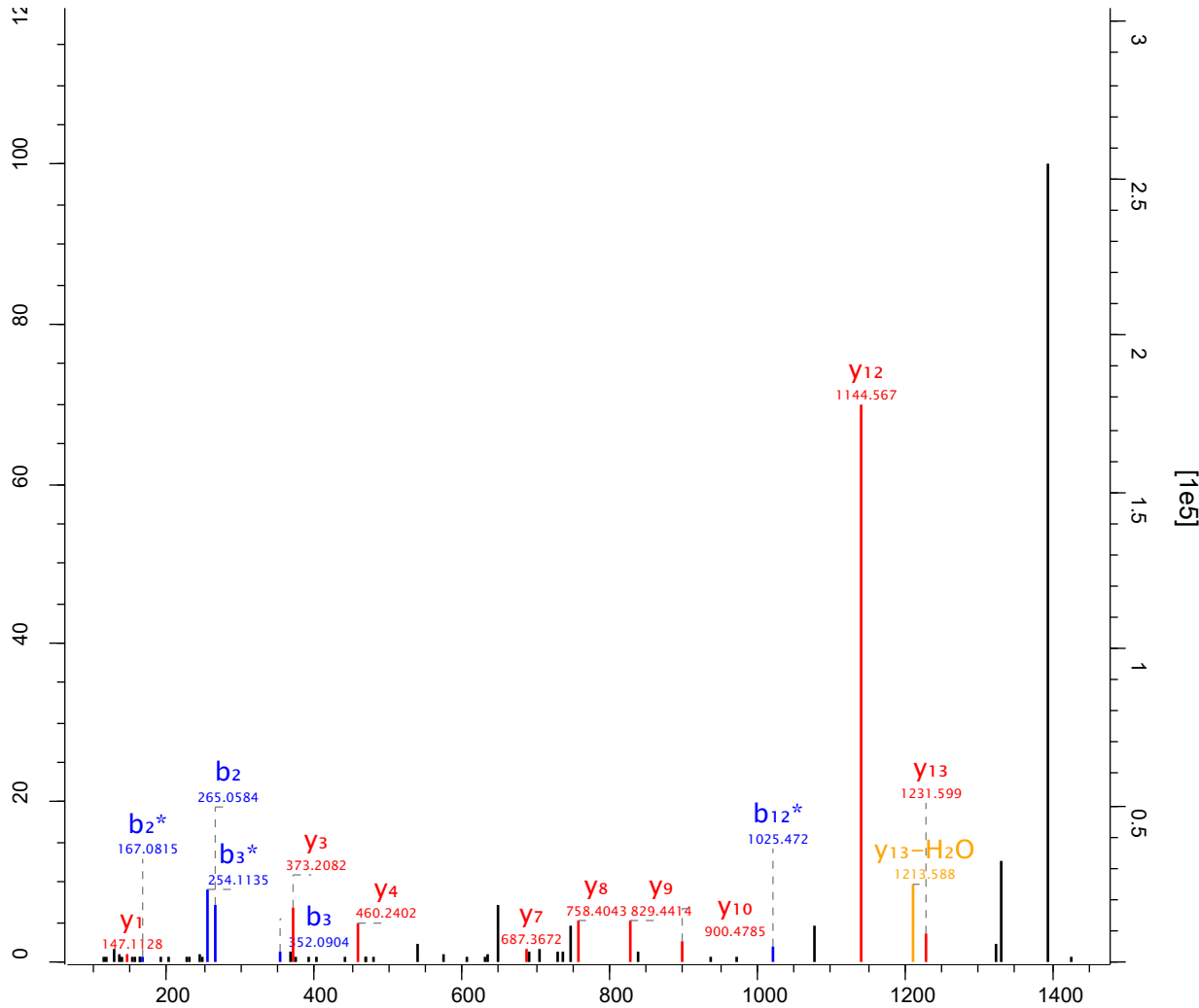
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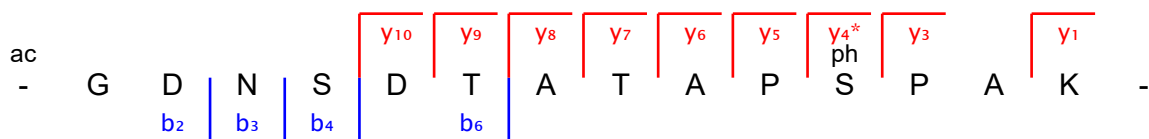
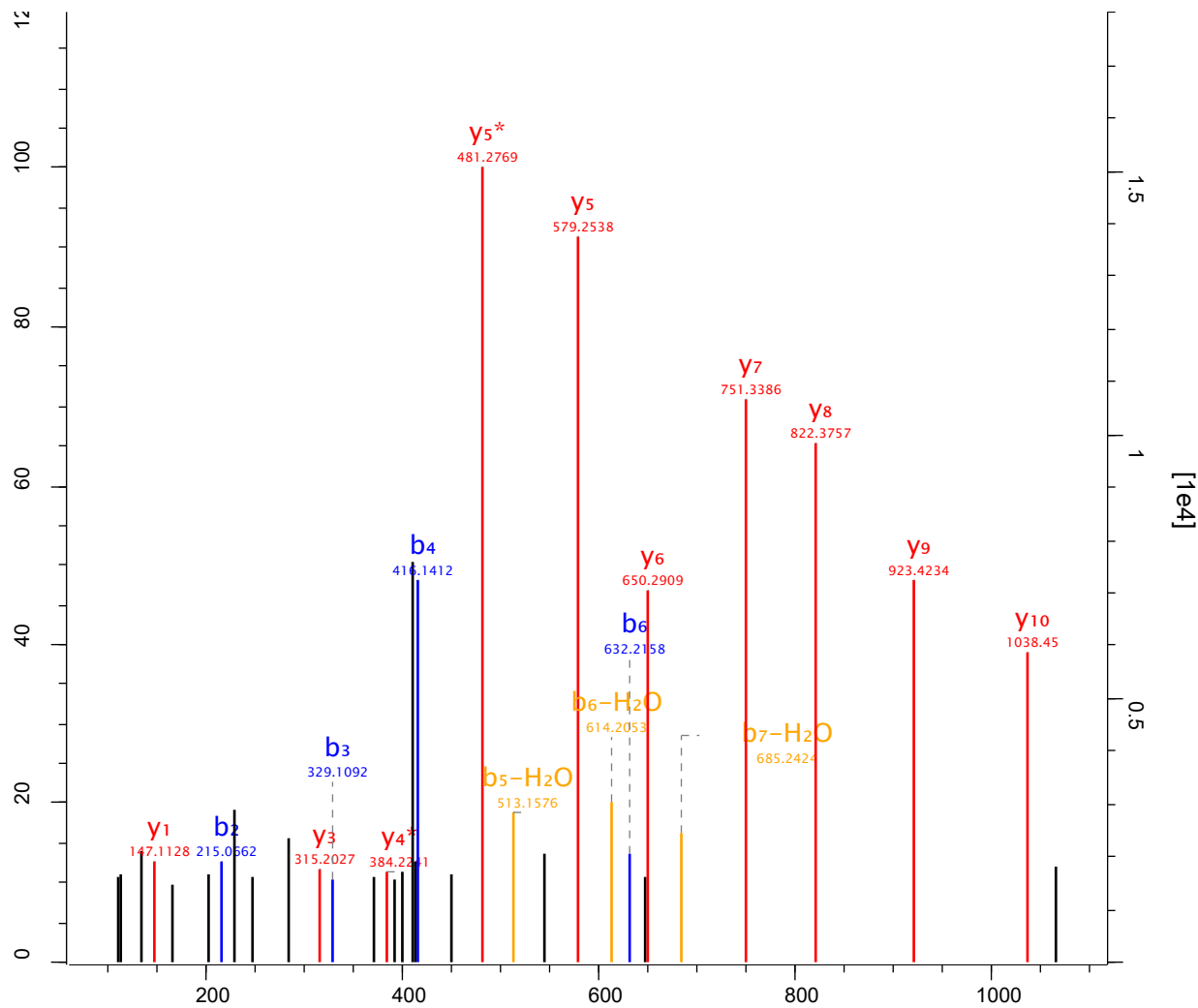
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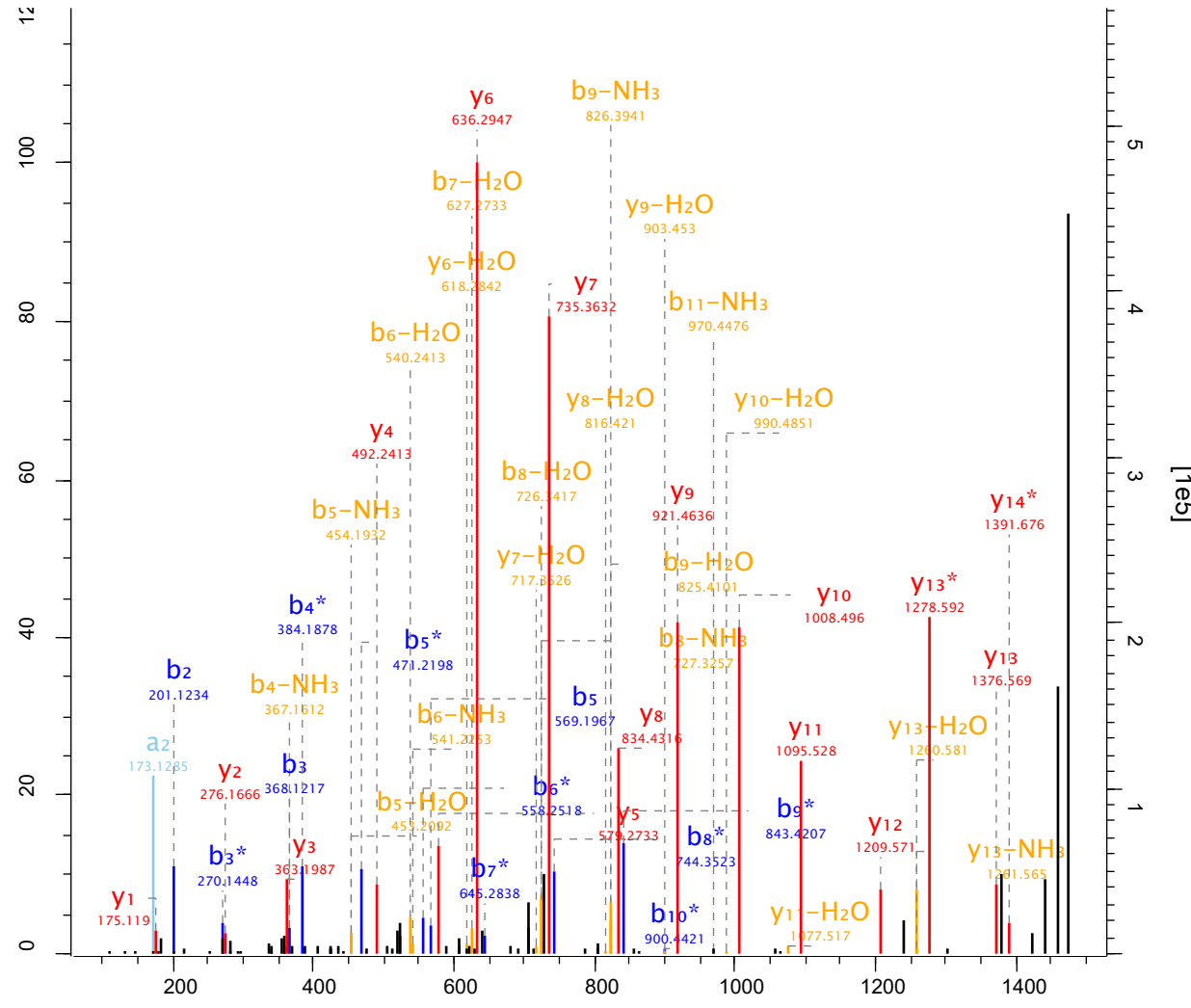
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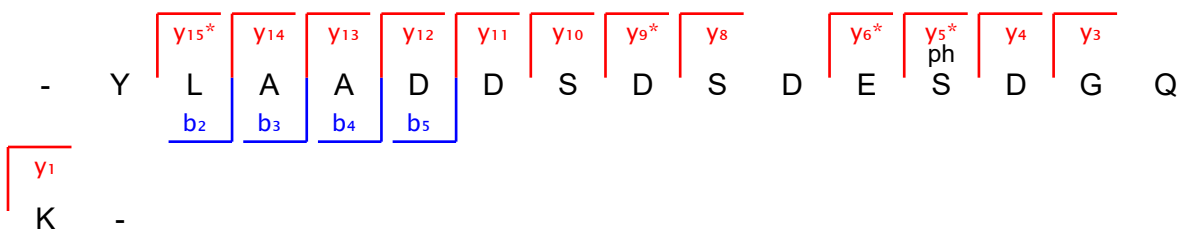
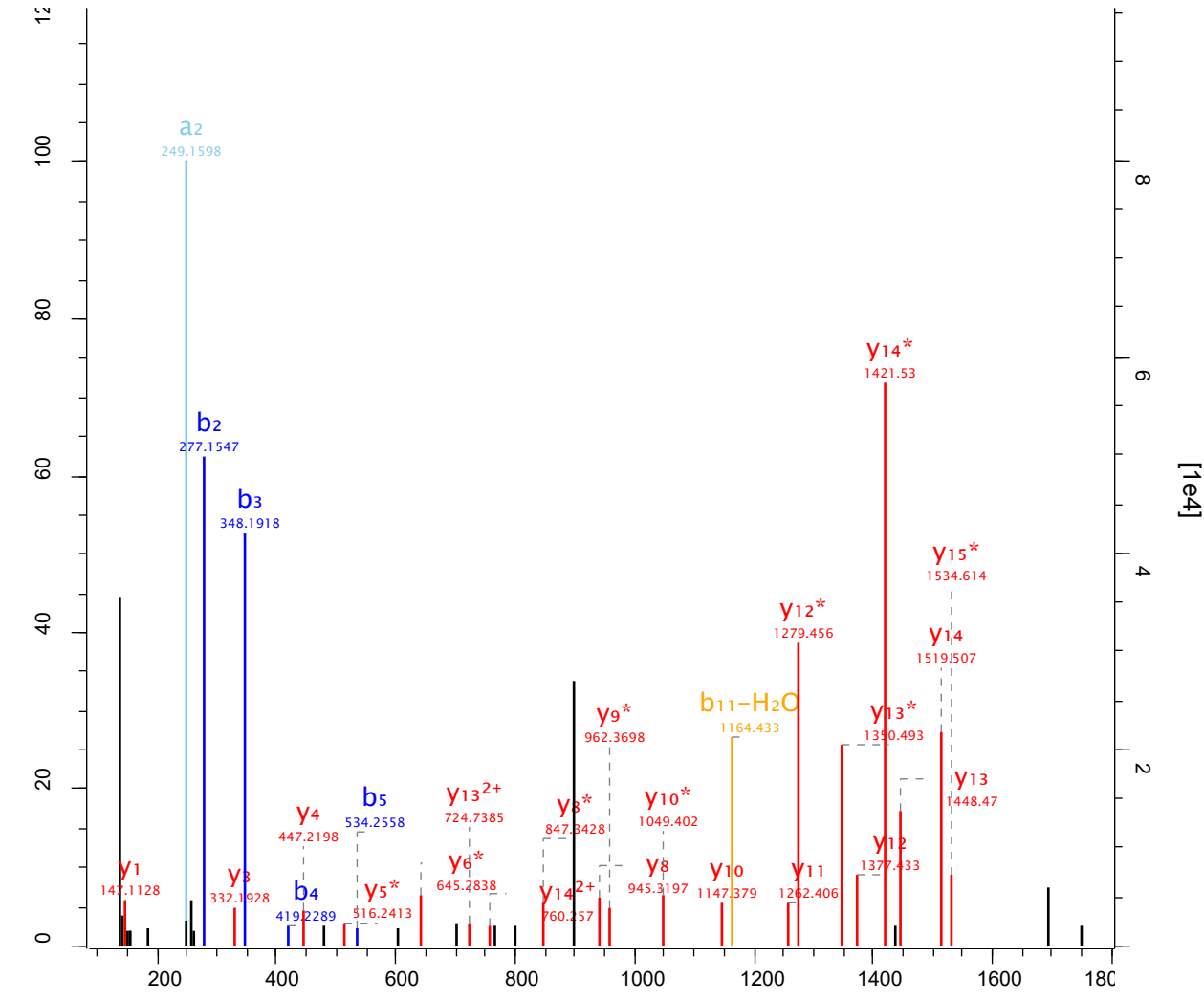


S I S N S S S V V G S E S T R

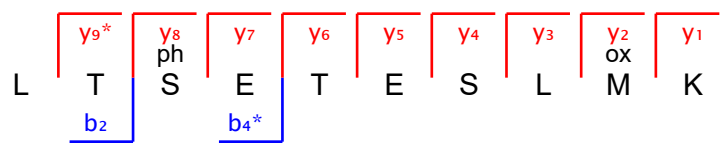
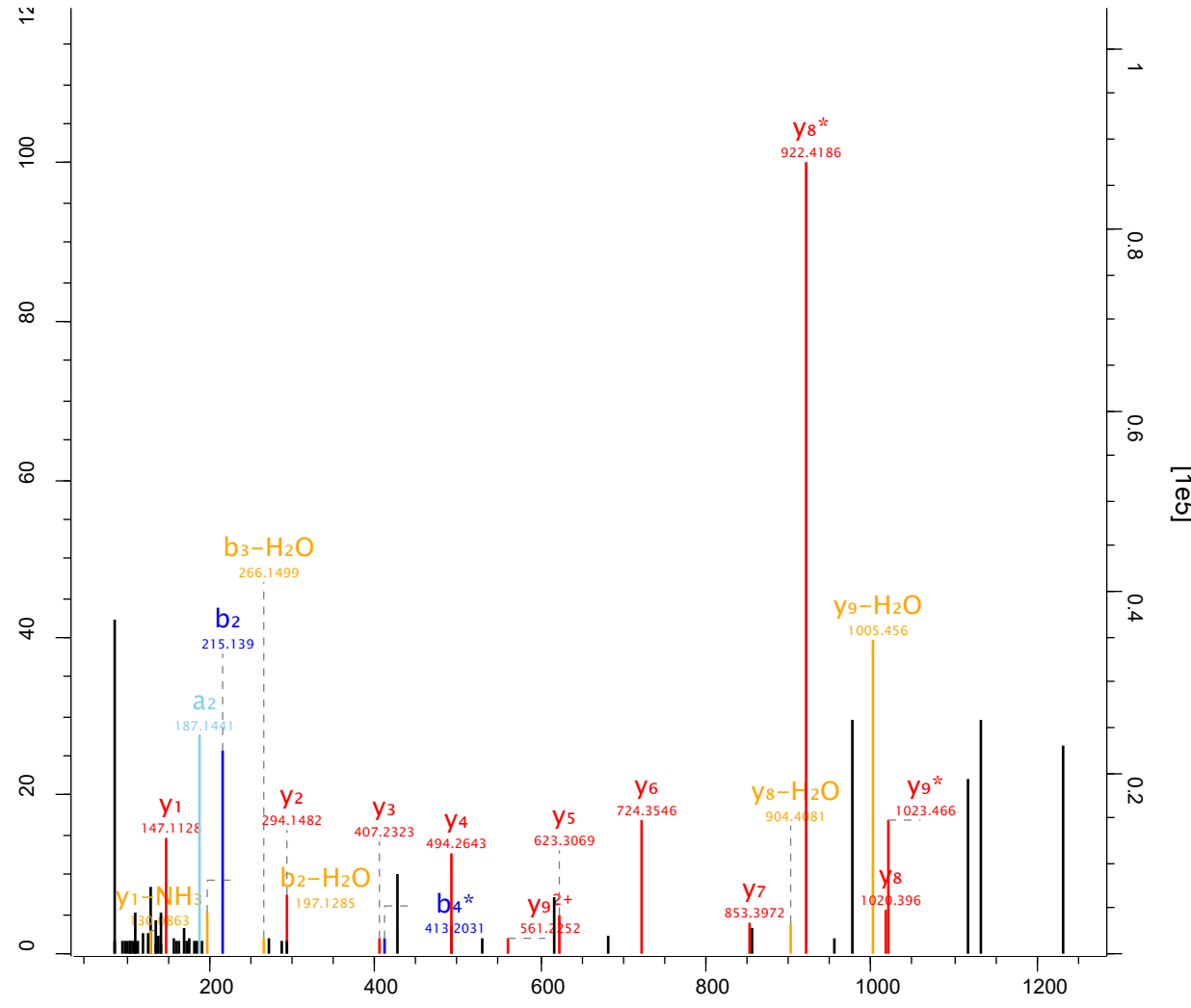
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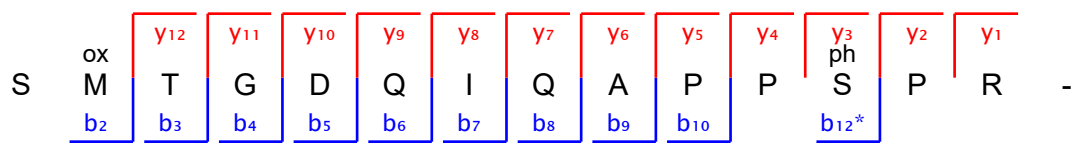
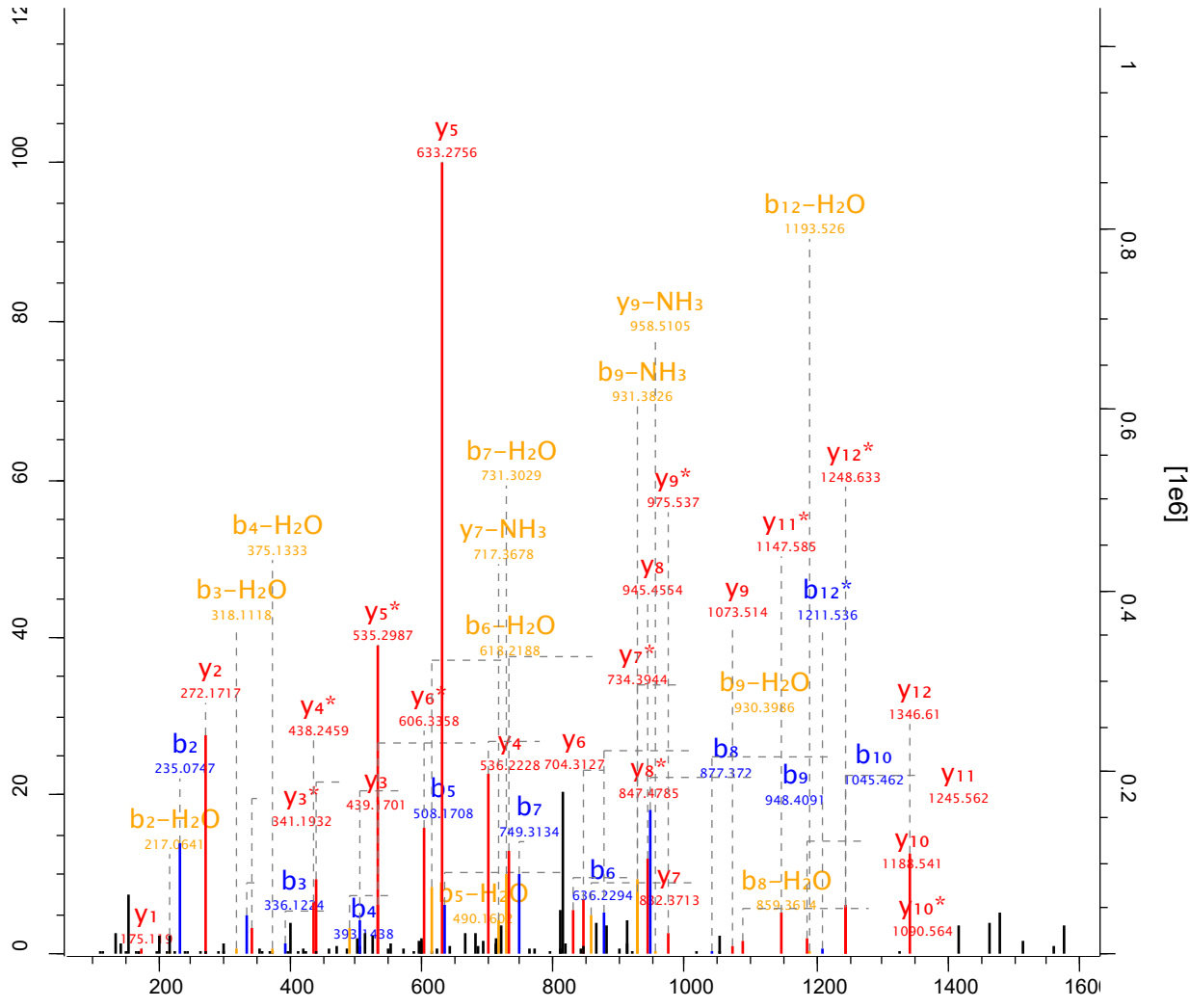
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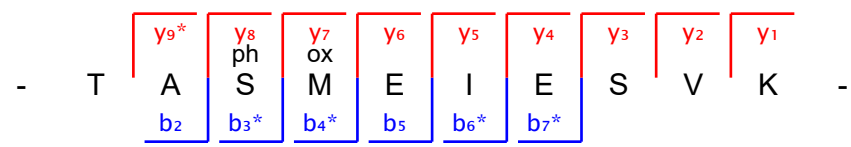
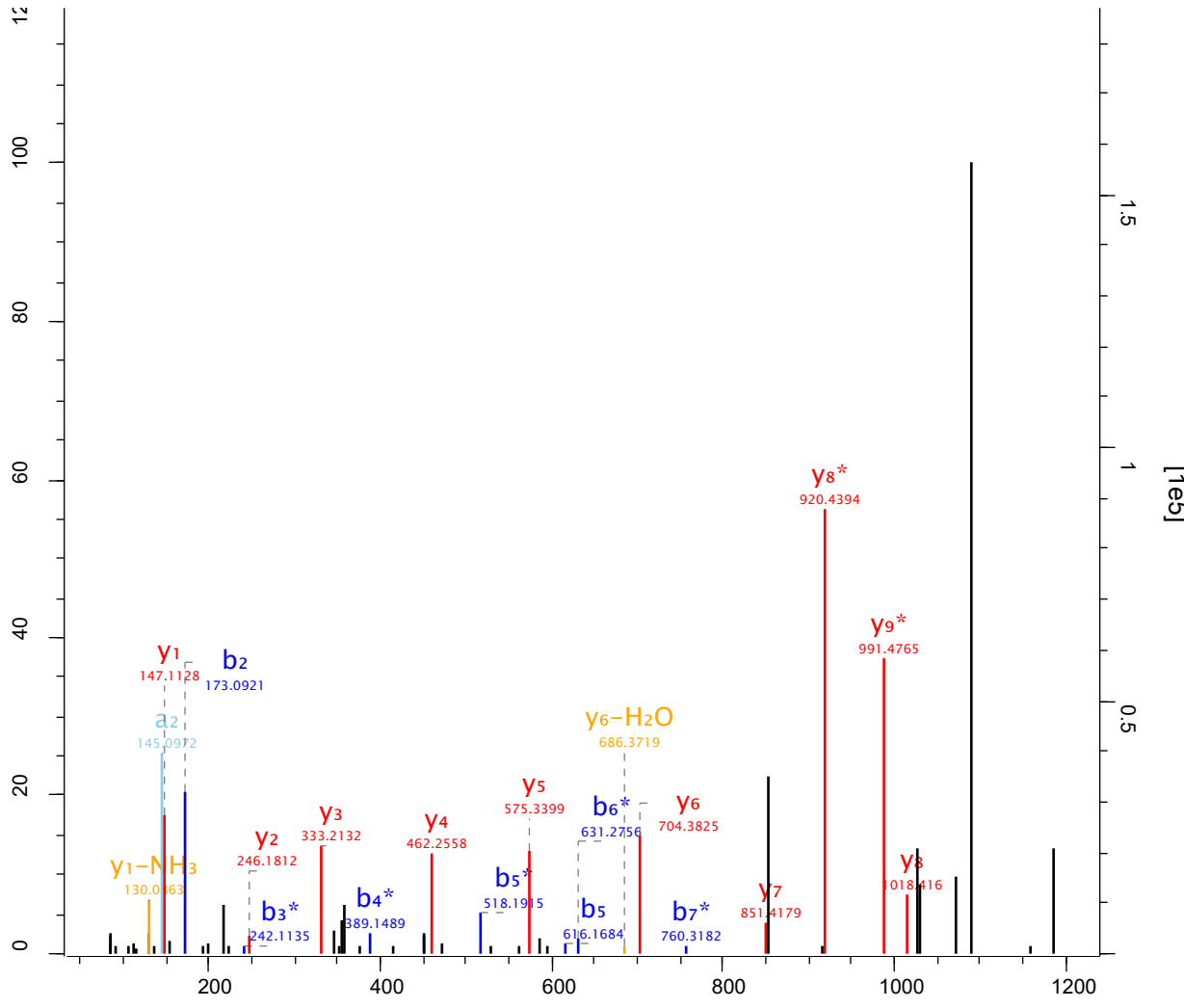
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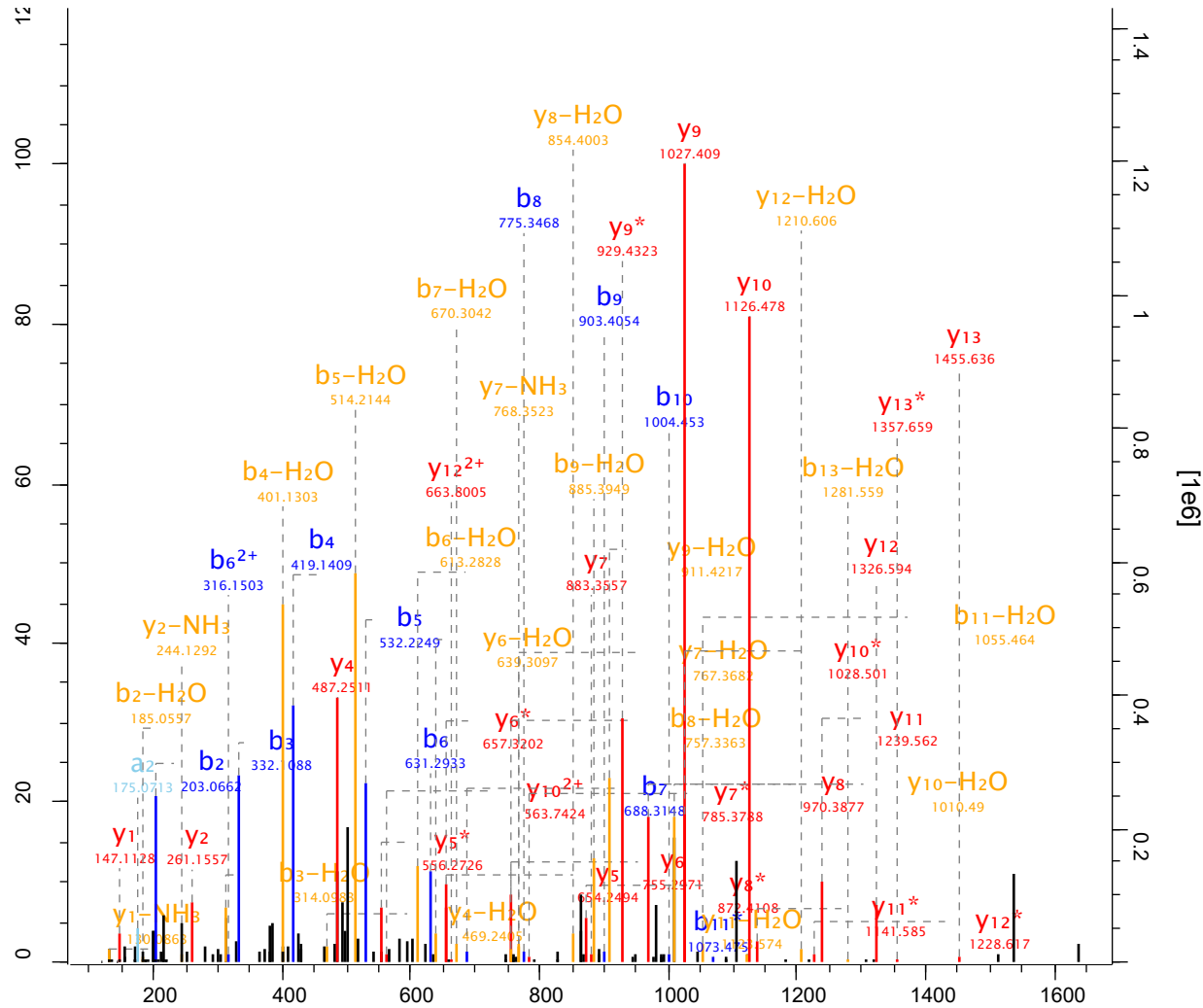
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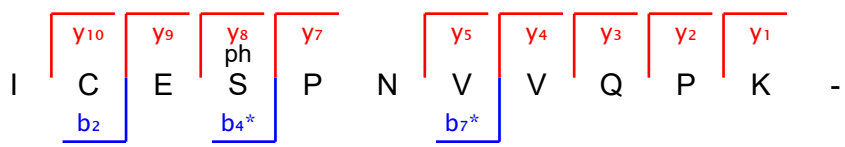
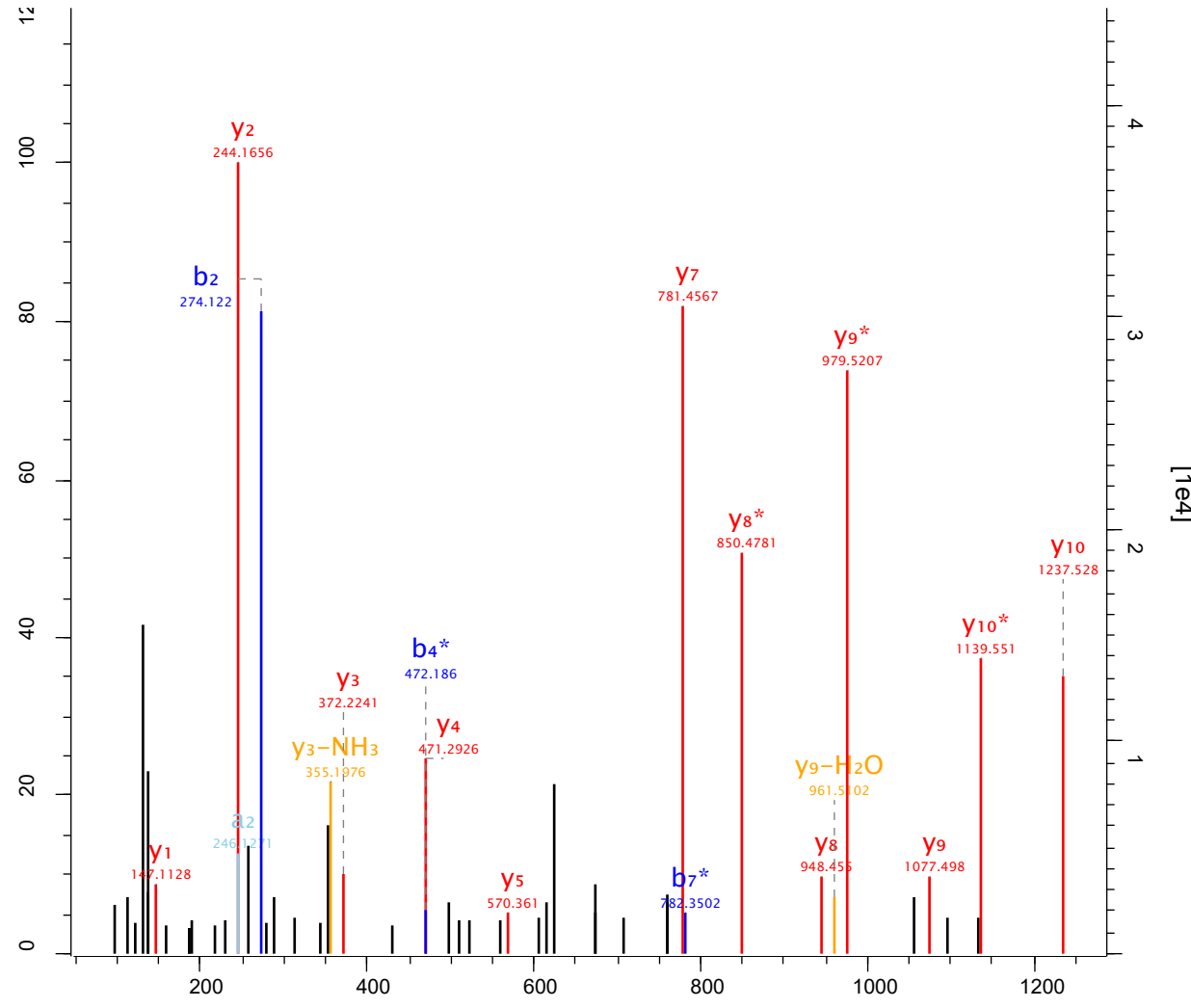
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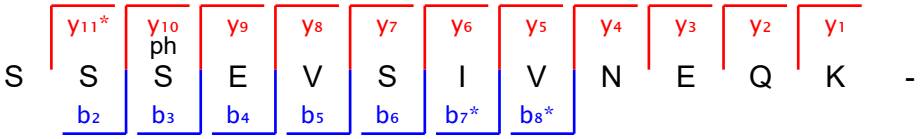
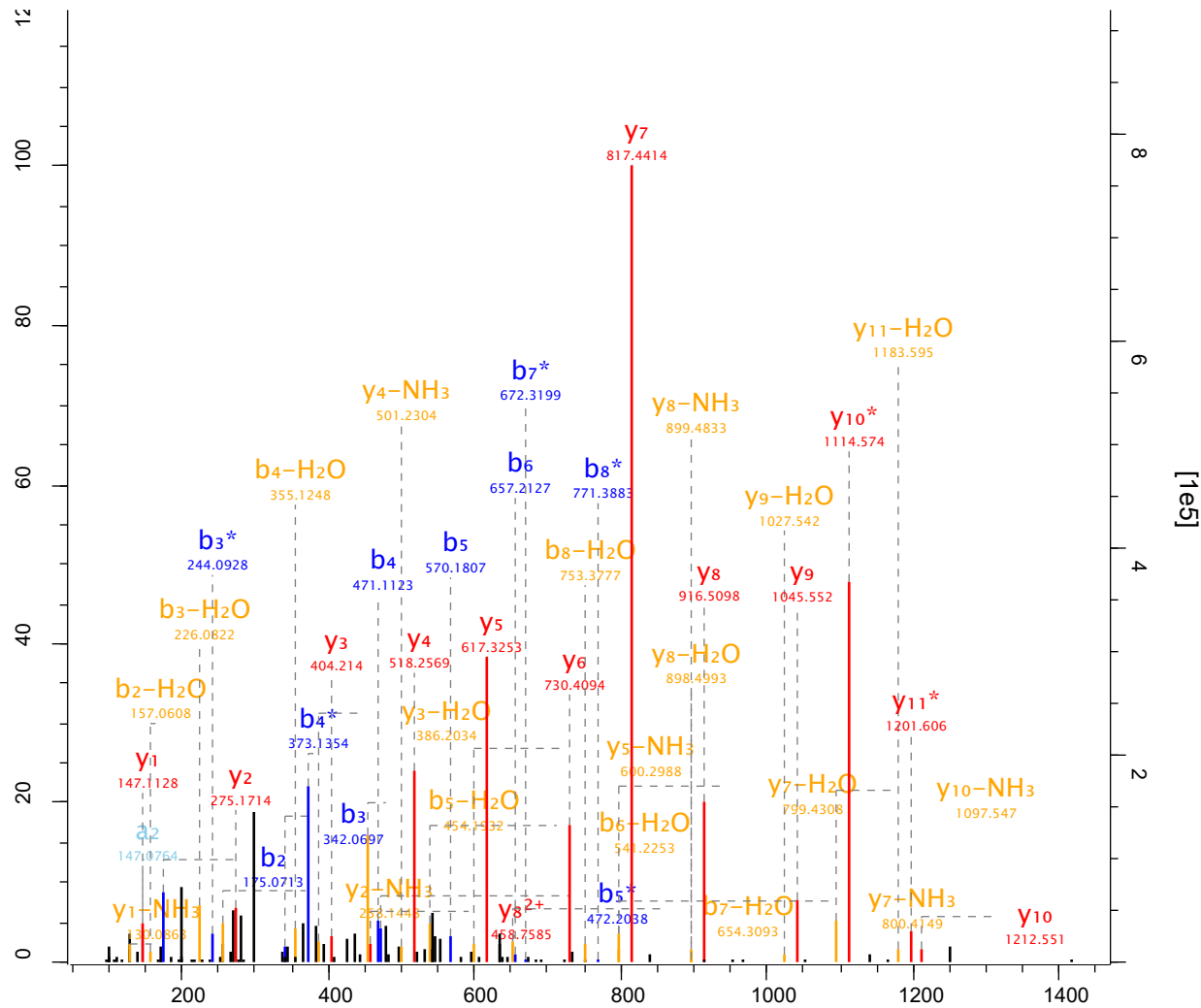
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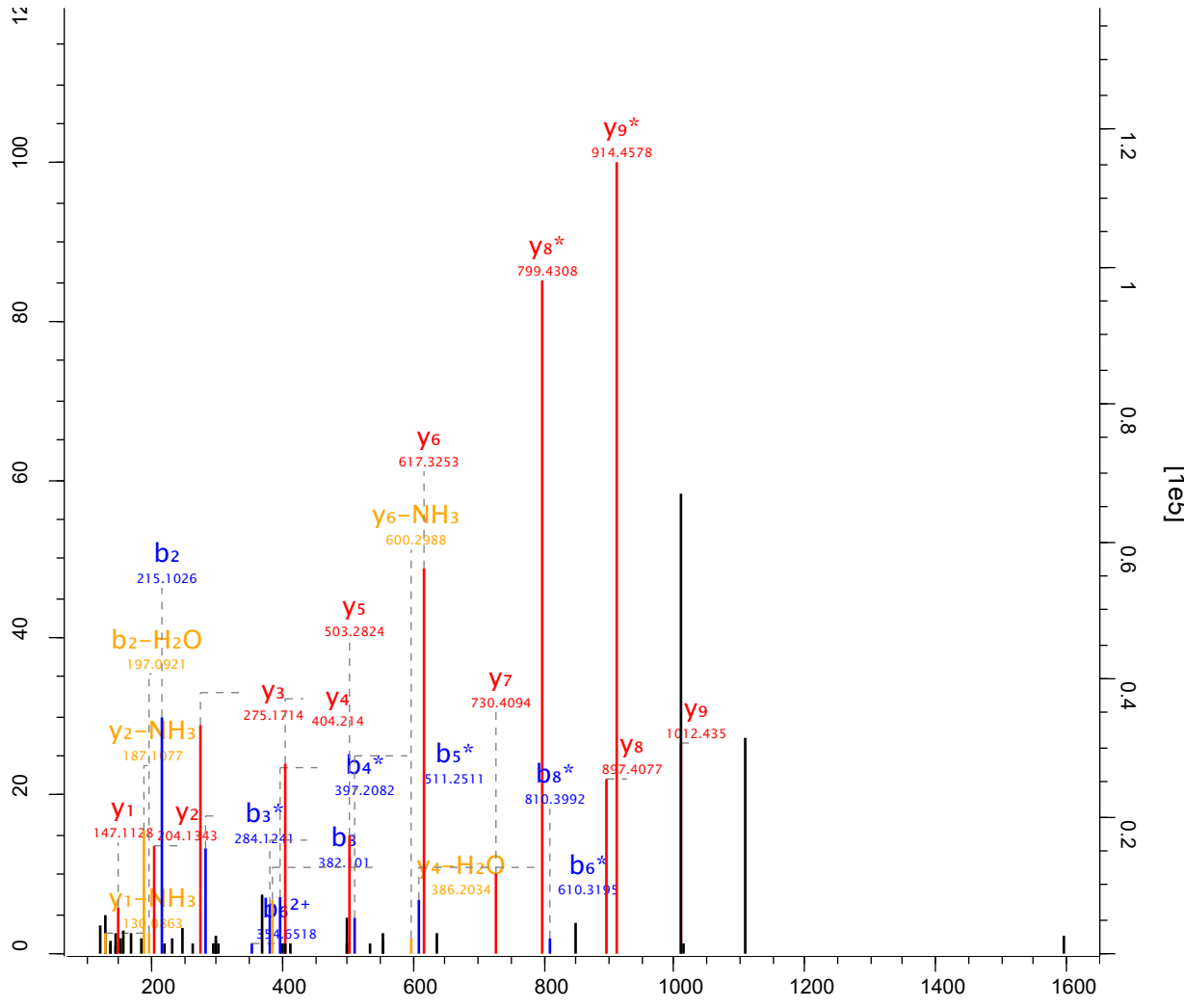
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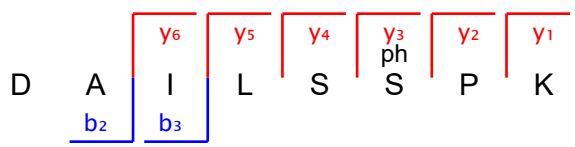
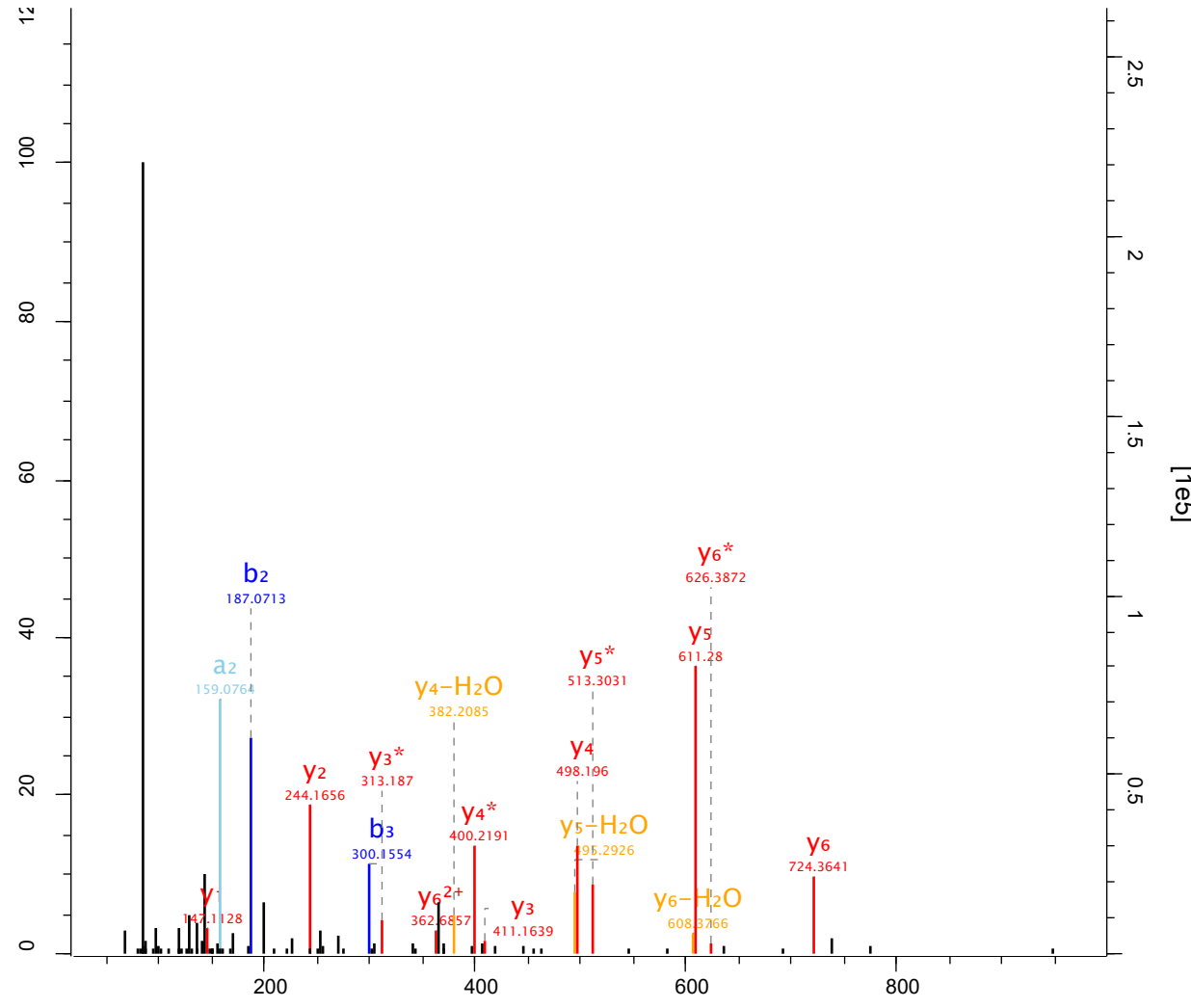


V D S L N V E A G K

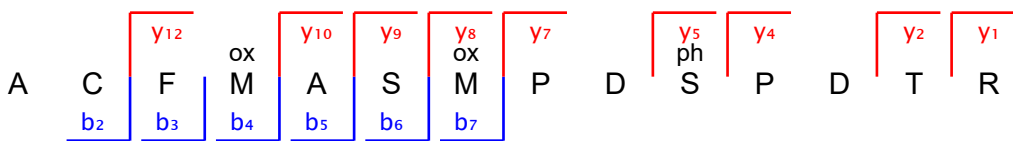
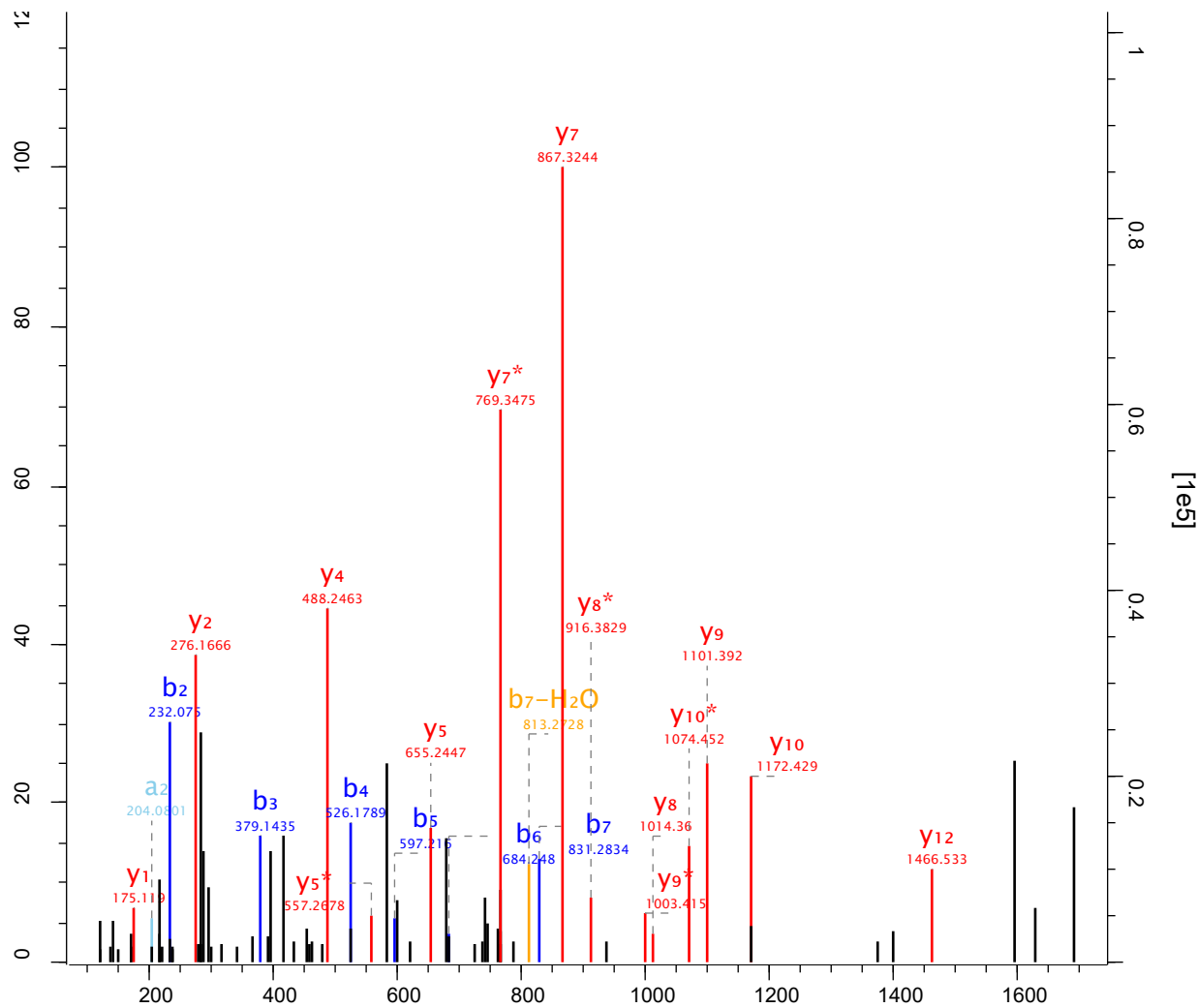
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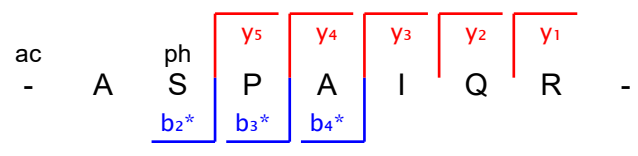
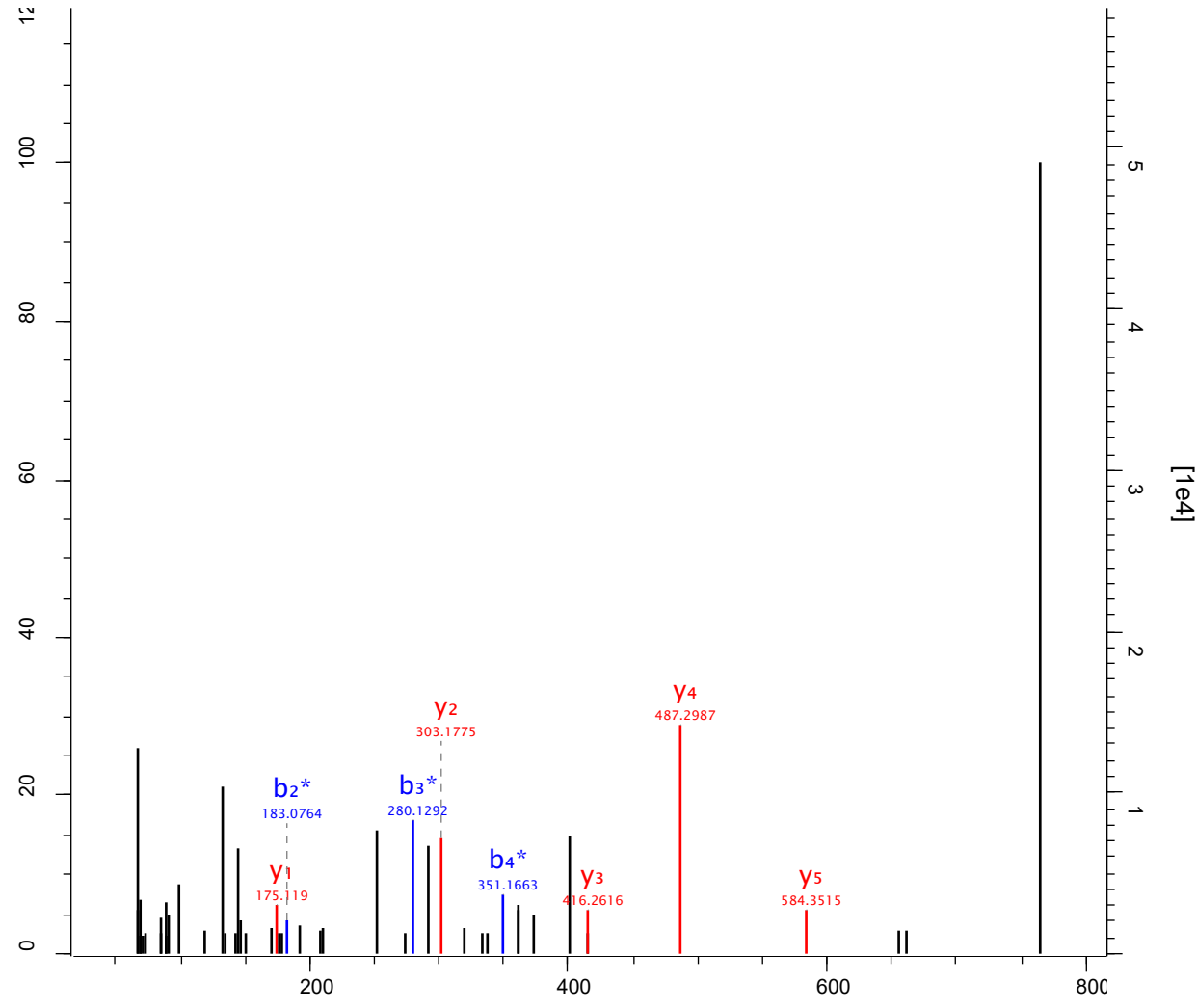
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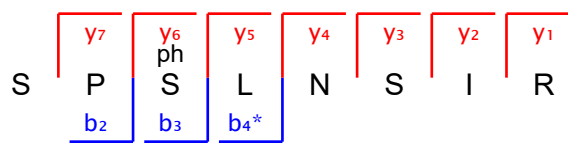
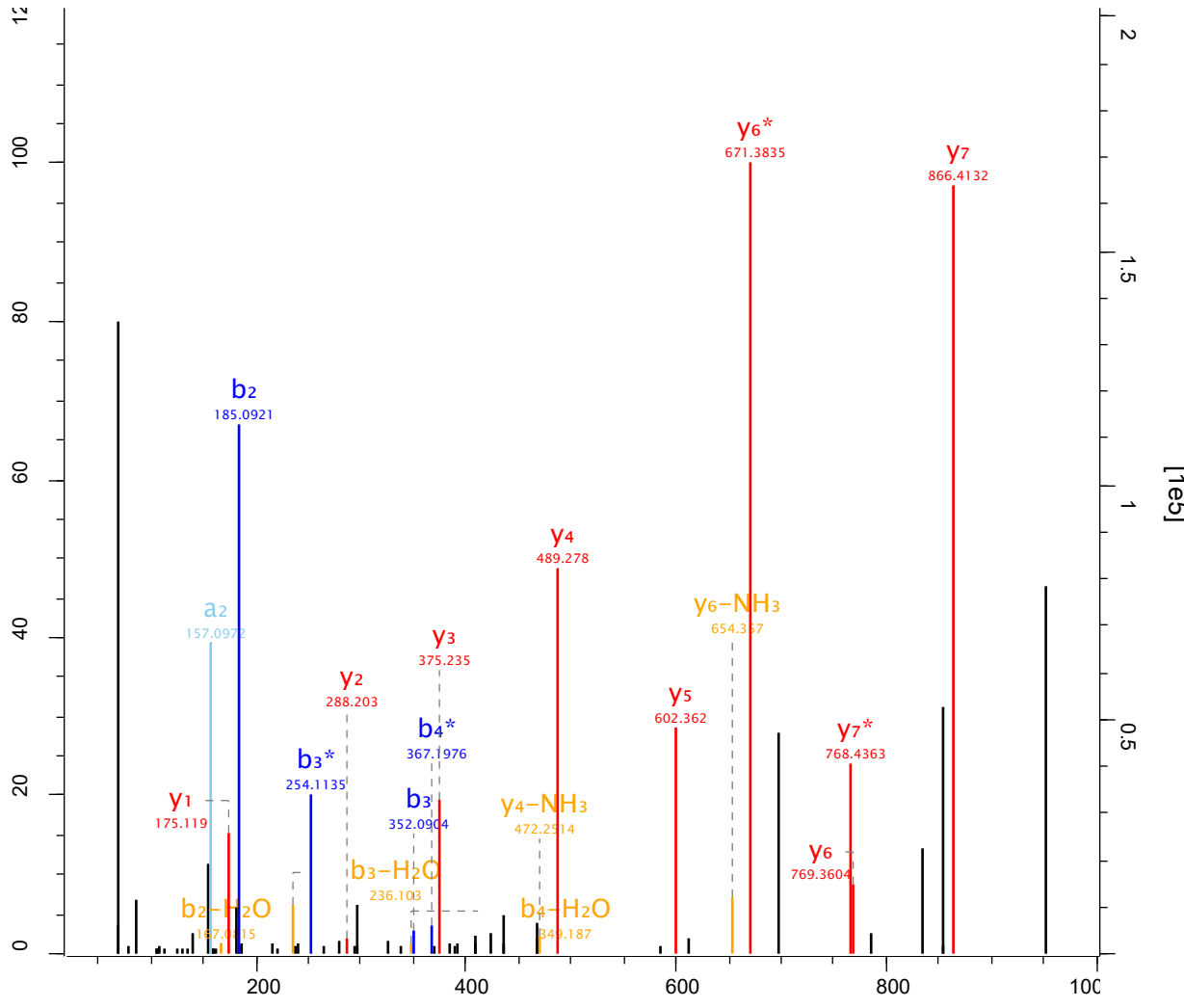
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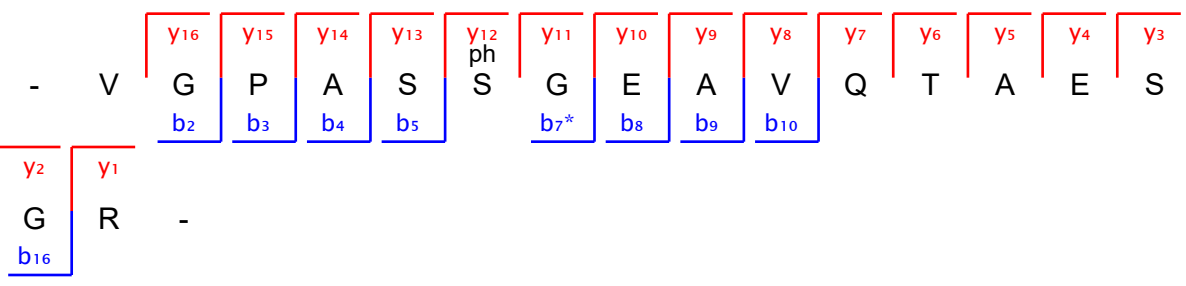
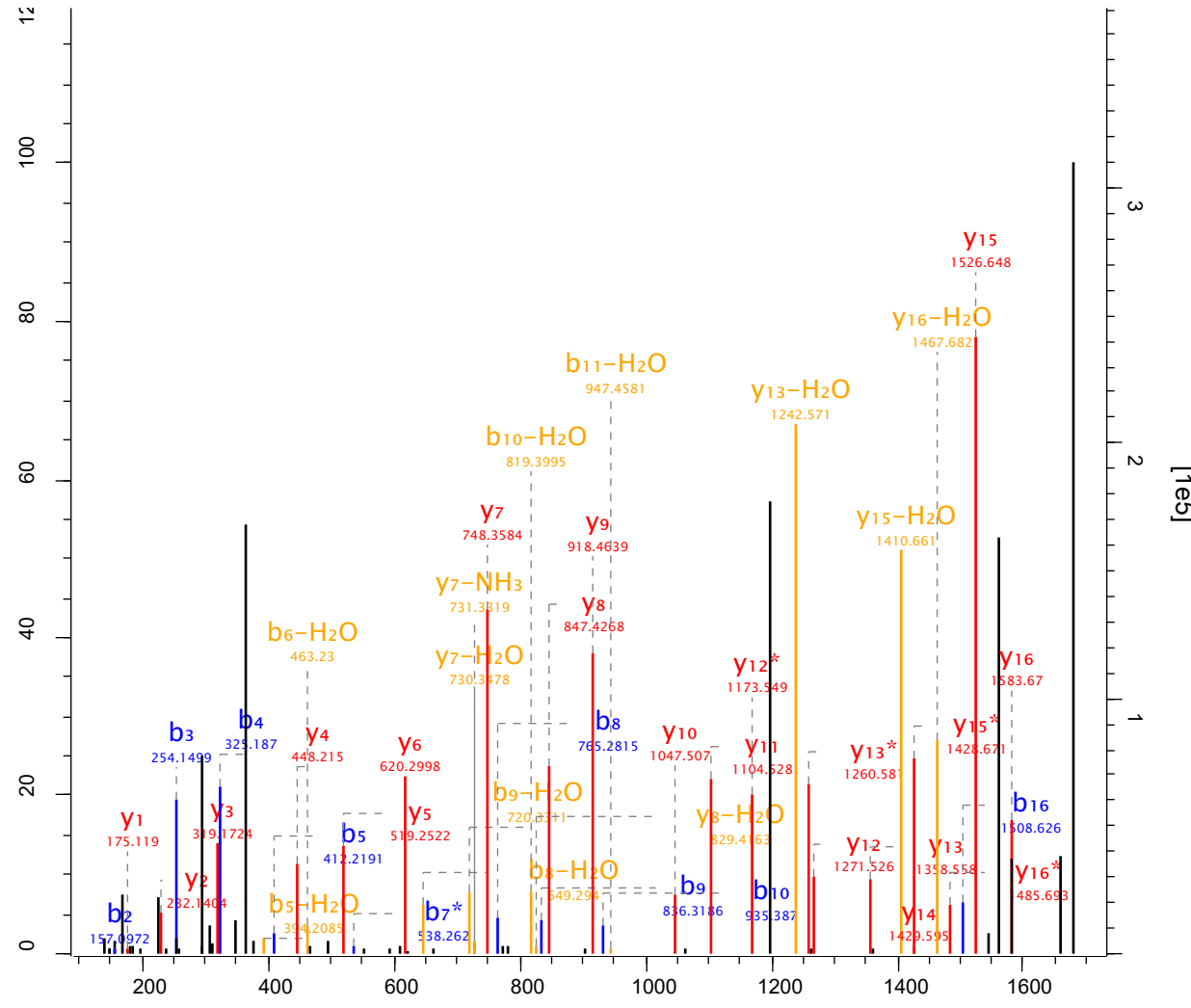
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|----------|-------|-----------|-------|-------|
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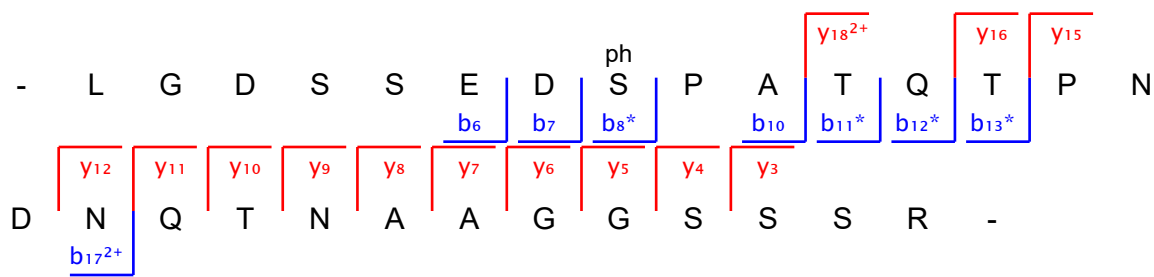
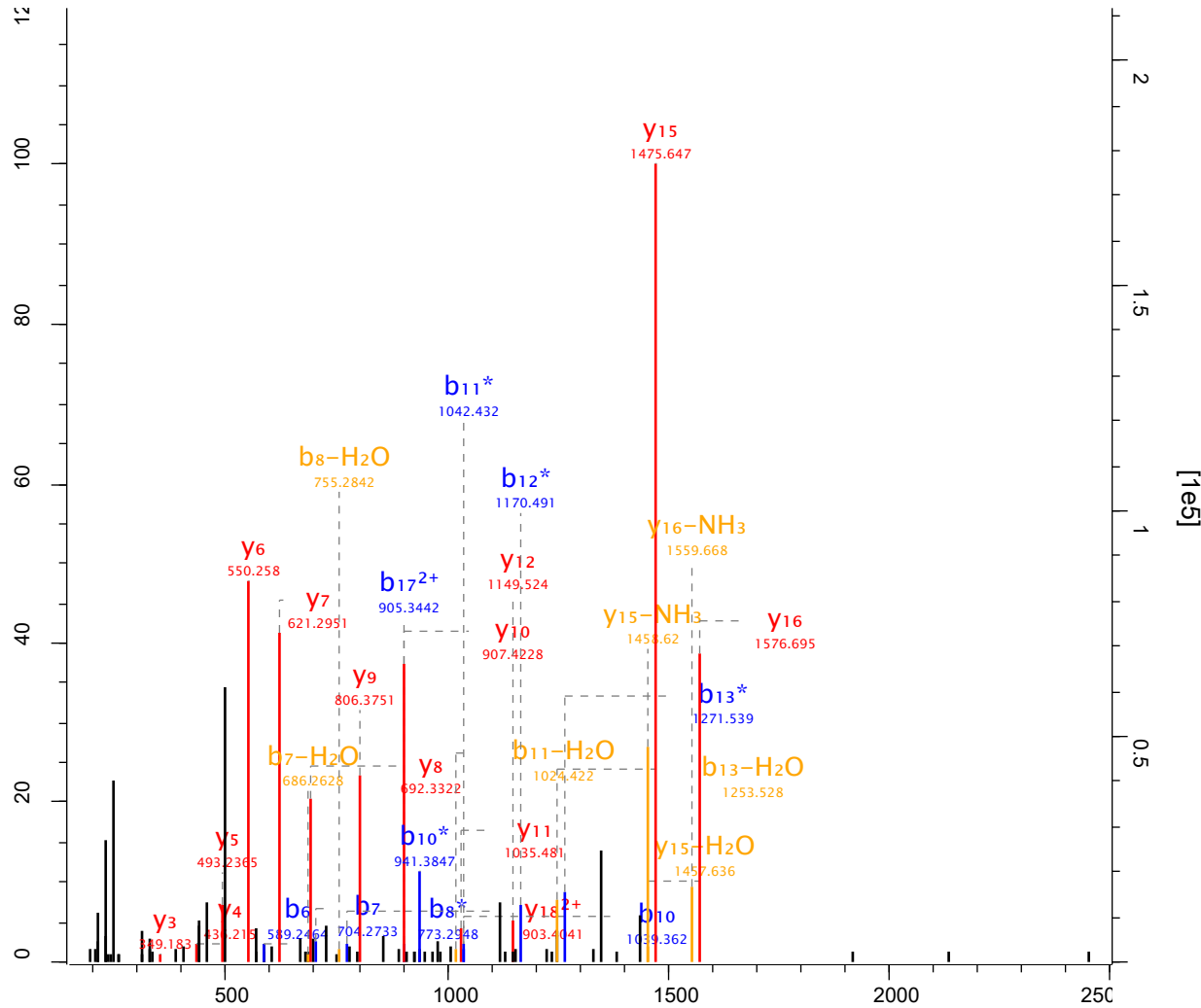
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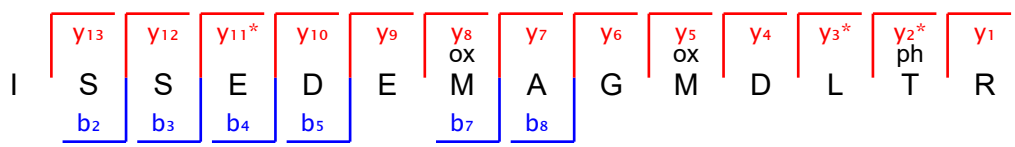
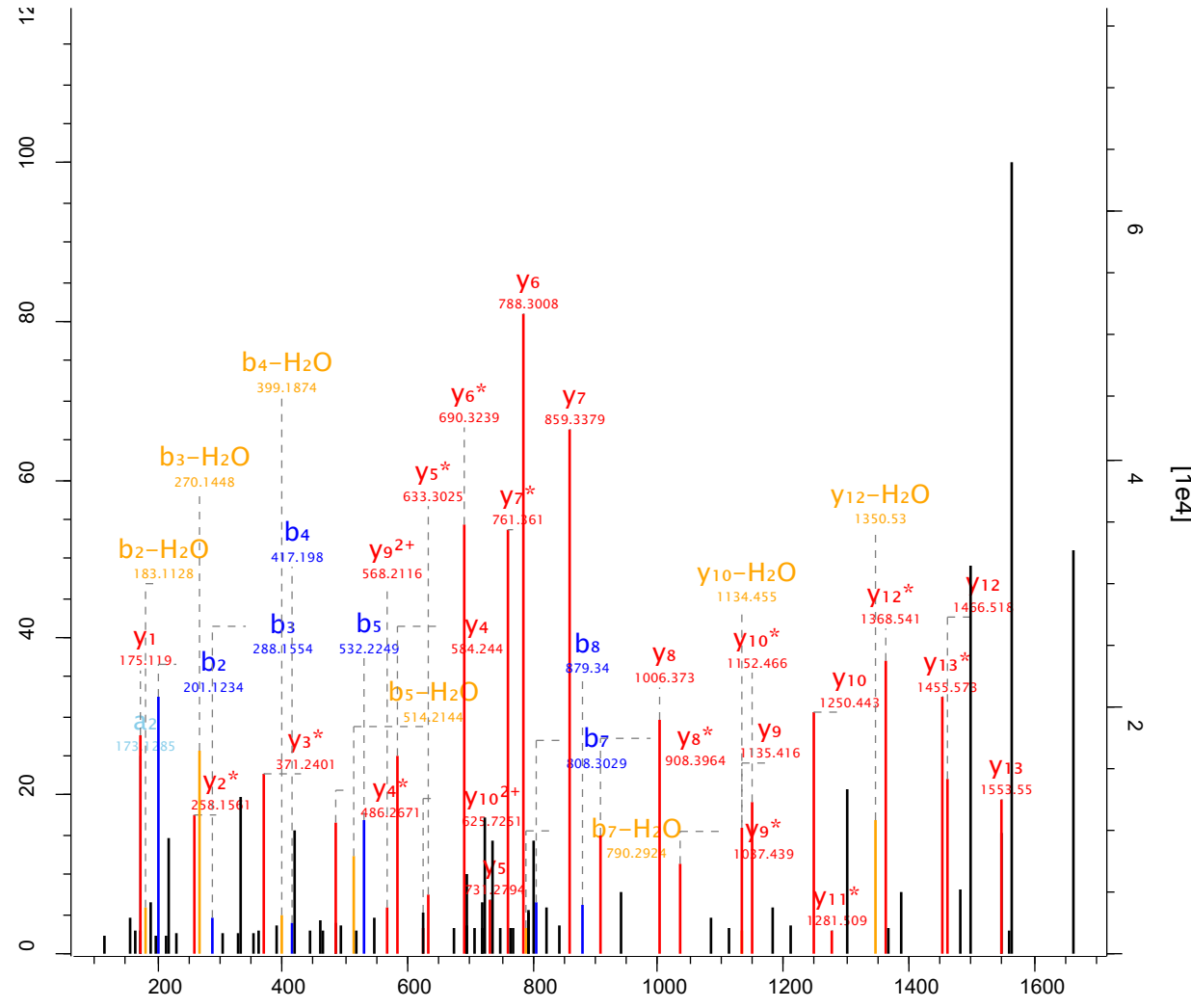
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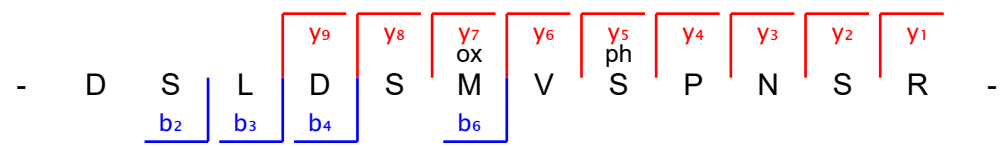
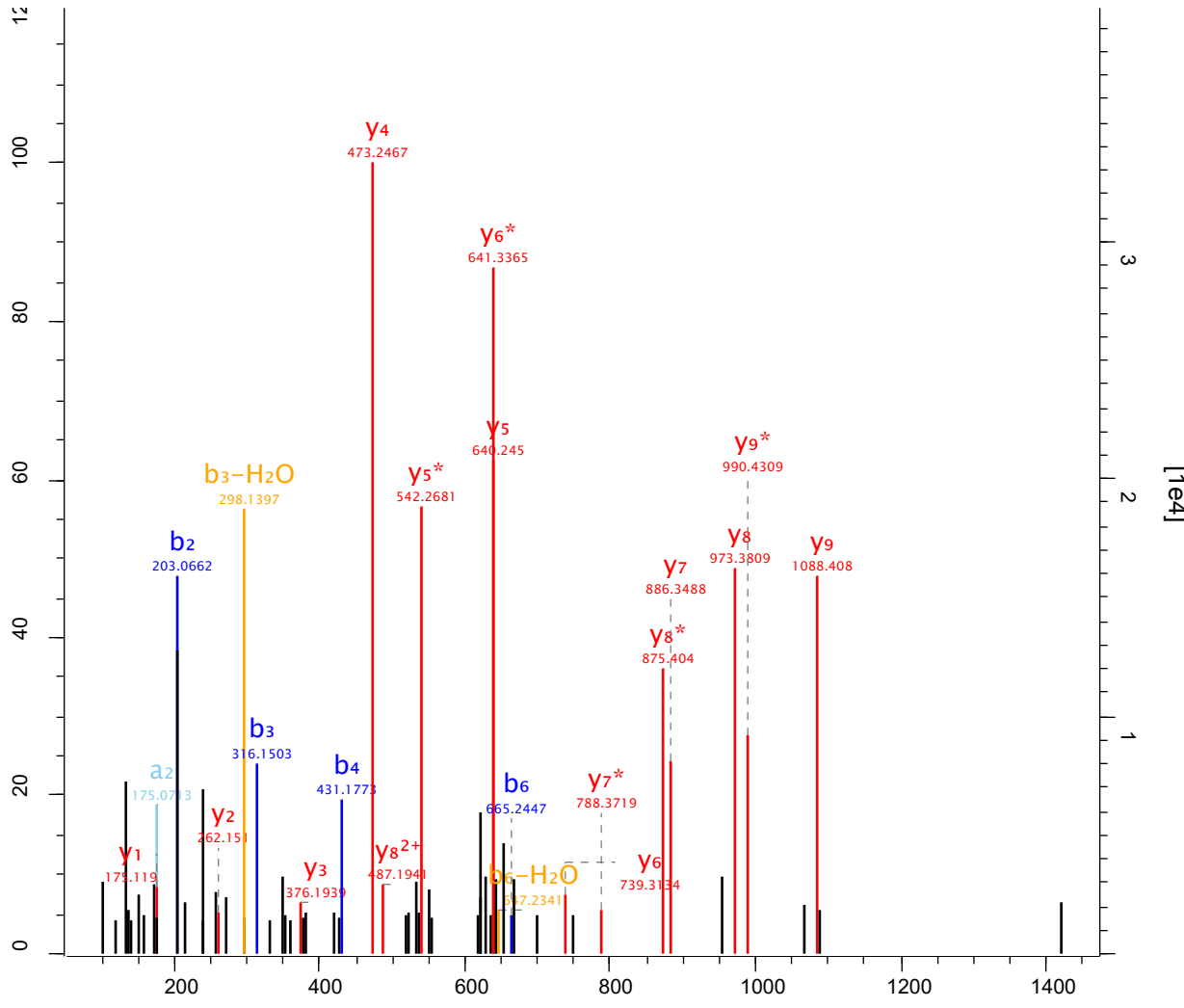
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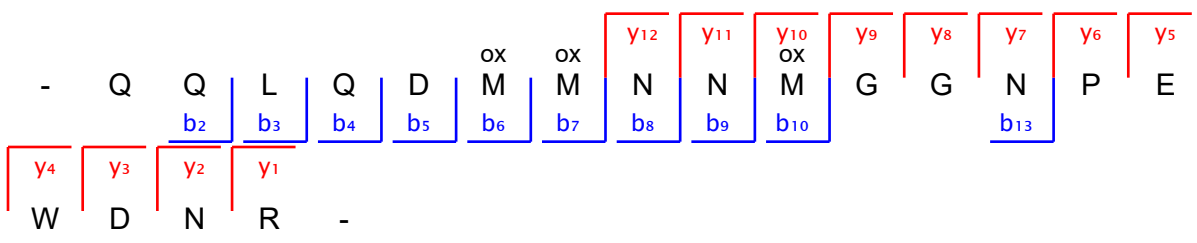
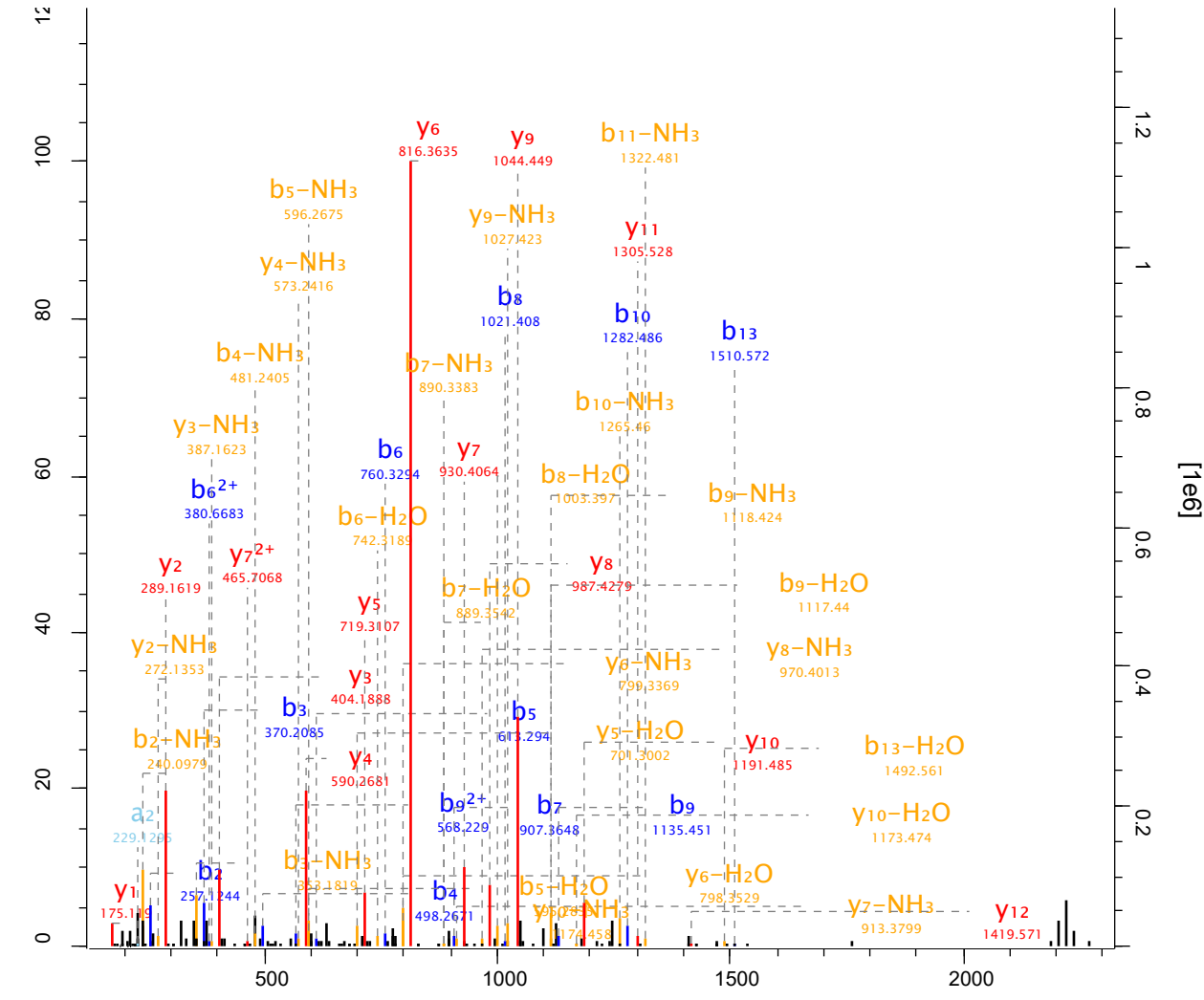
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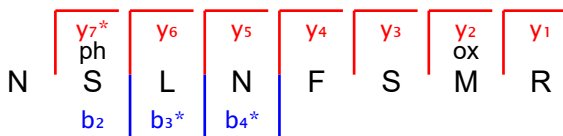
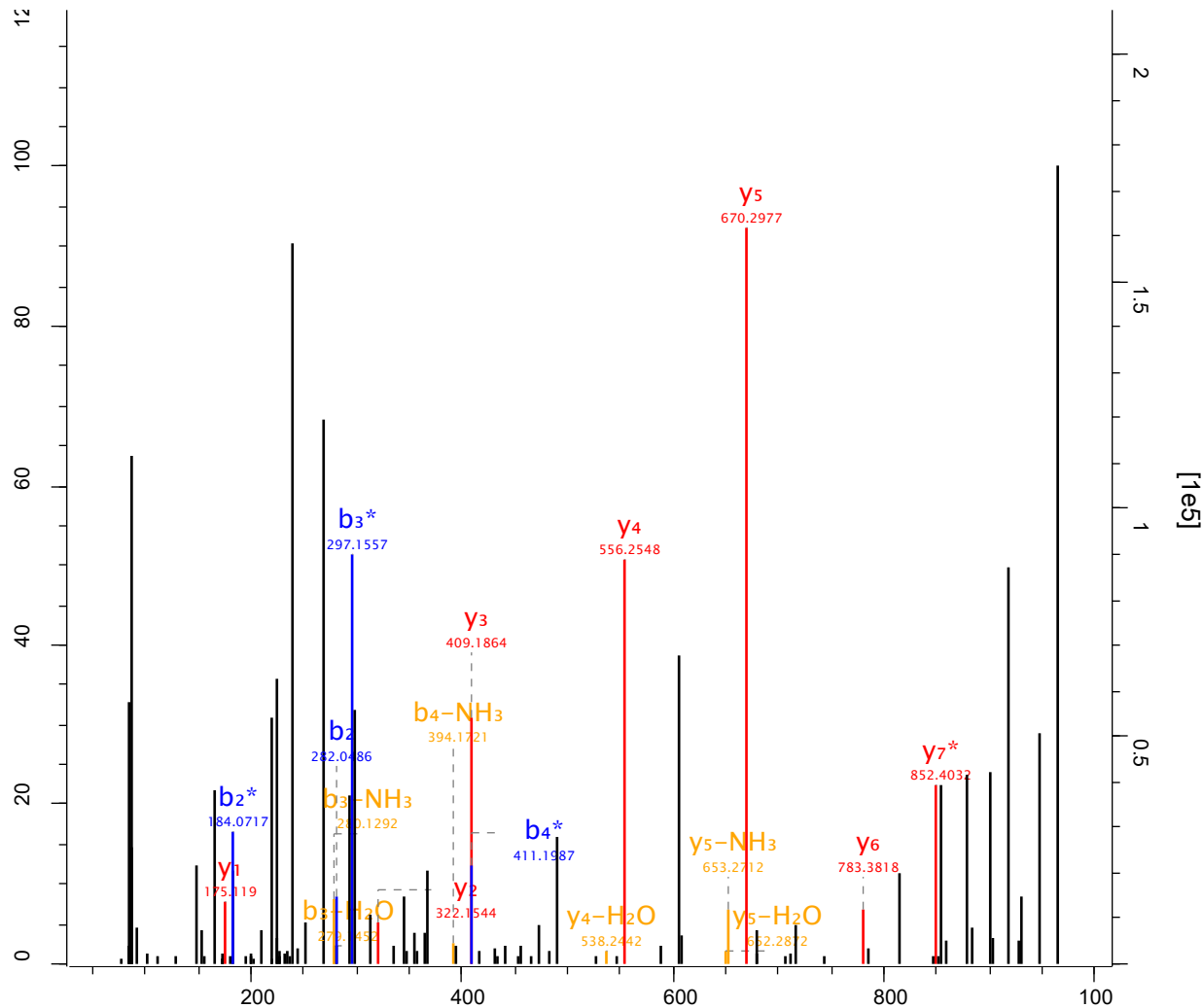
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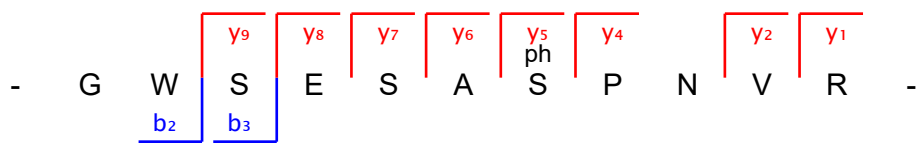
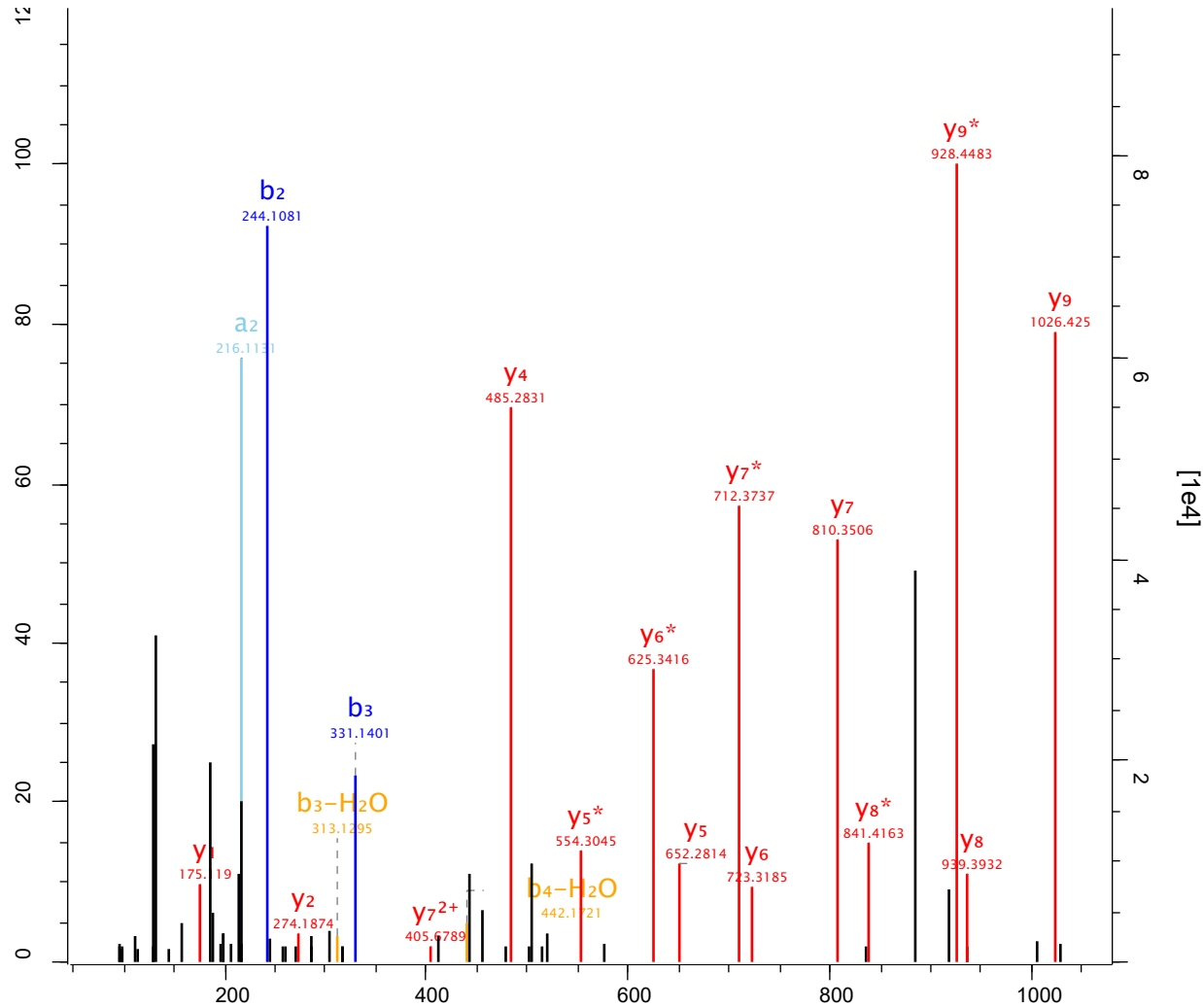
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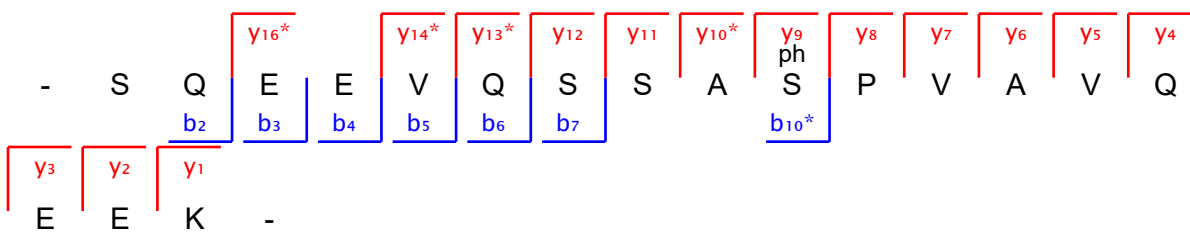
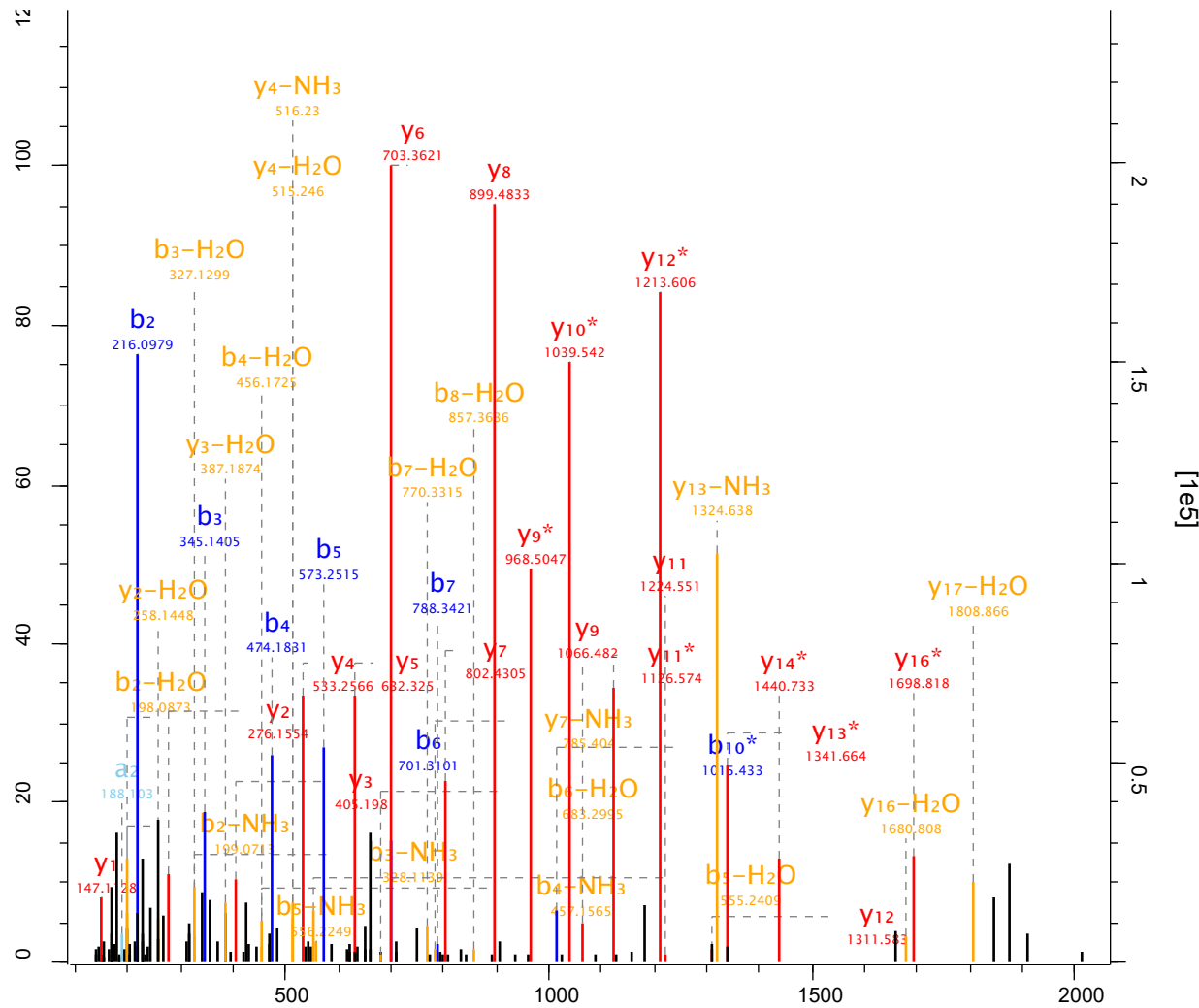
Raw file Scan Method Score m/z
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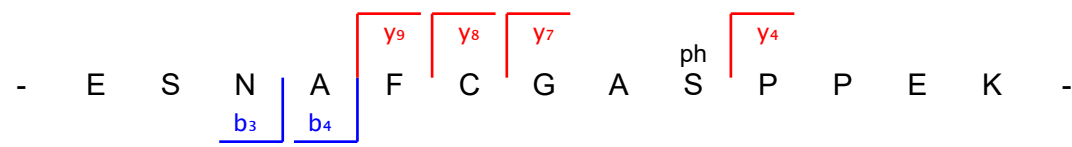
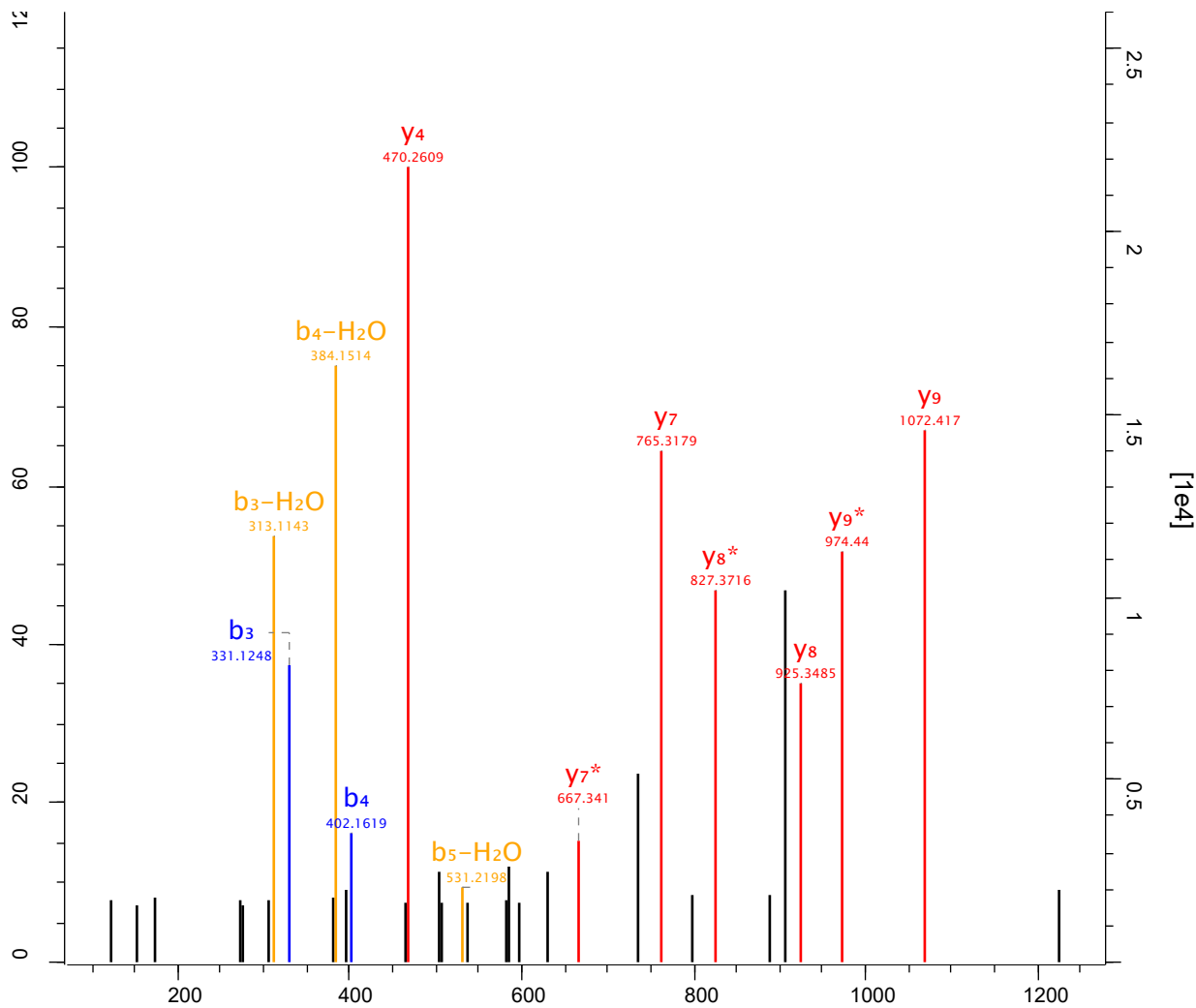
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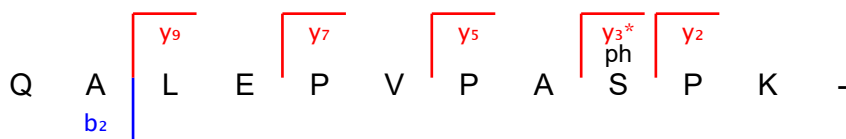
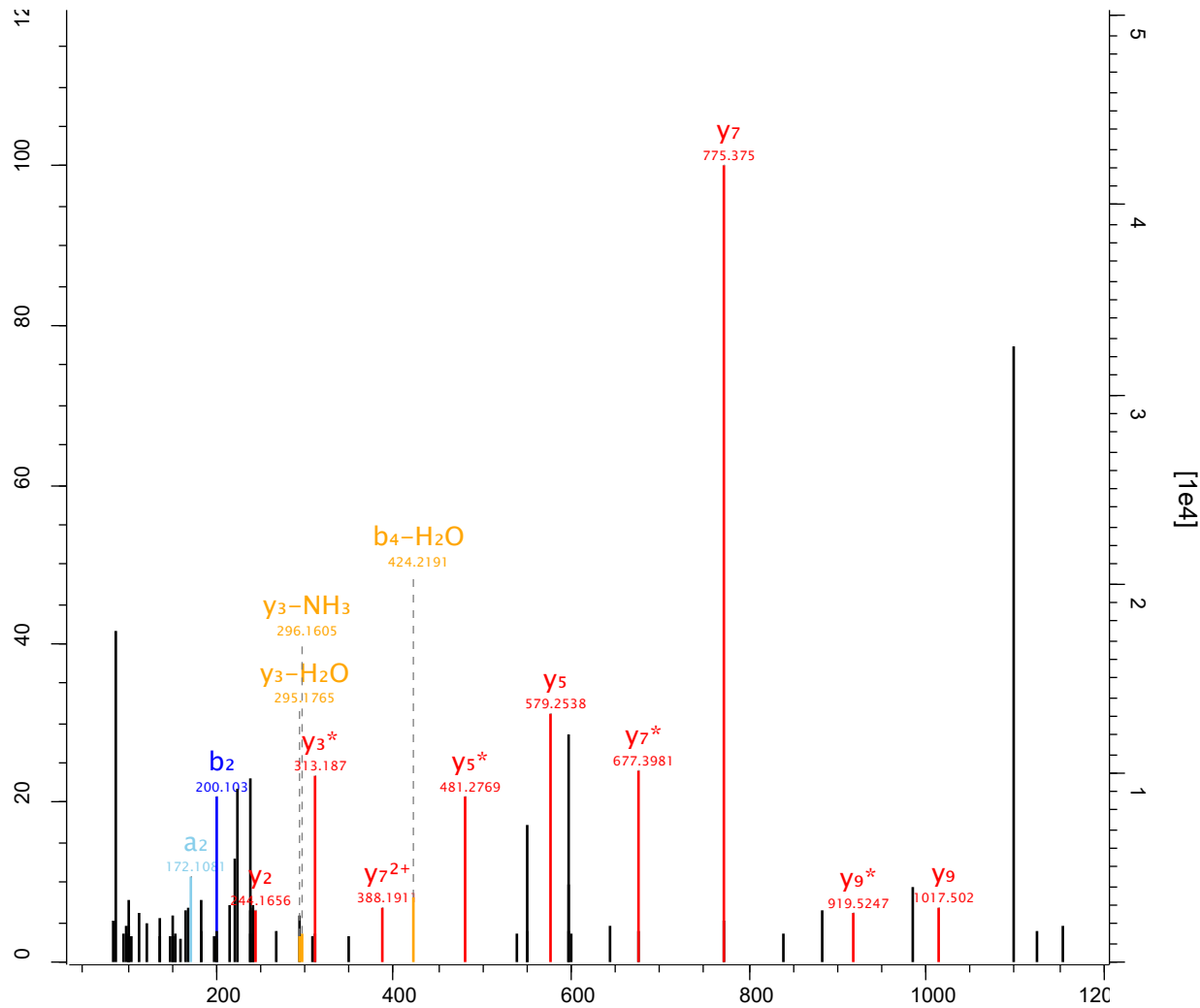
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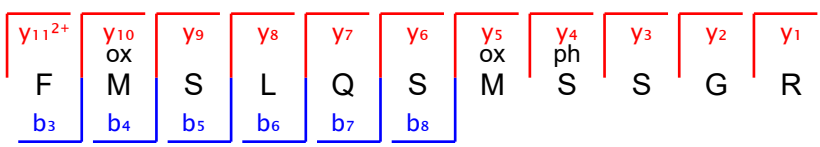
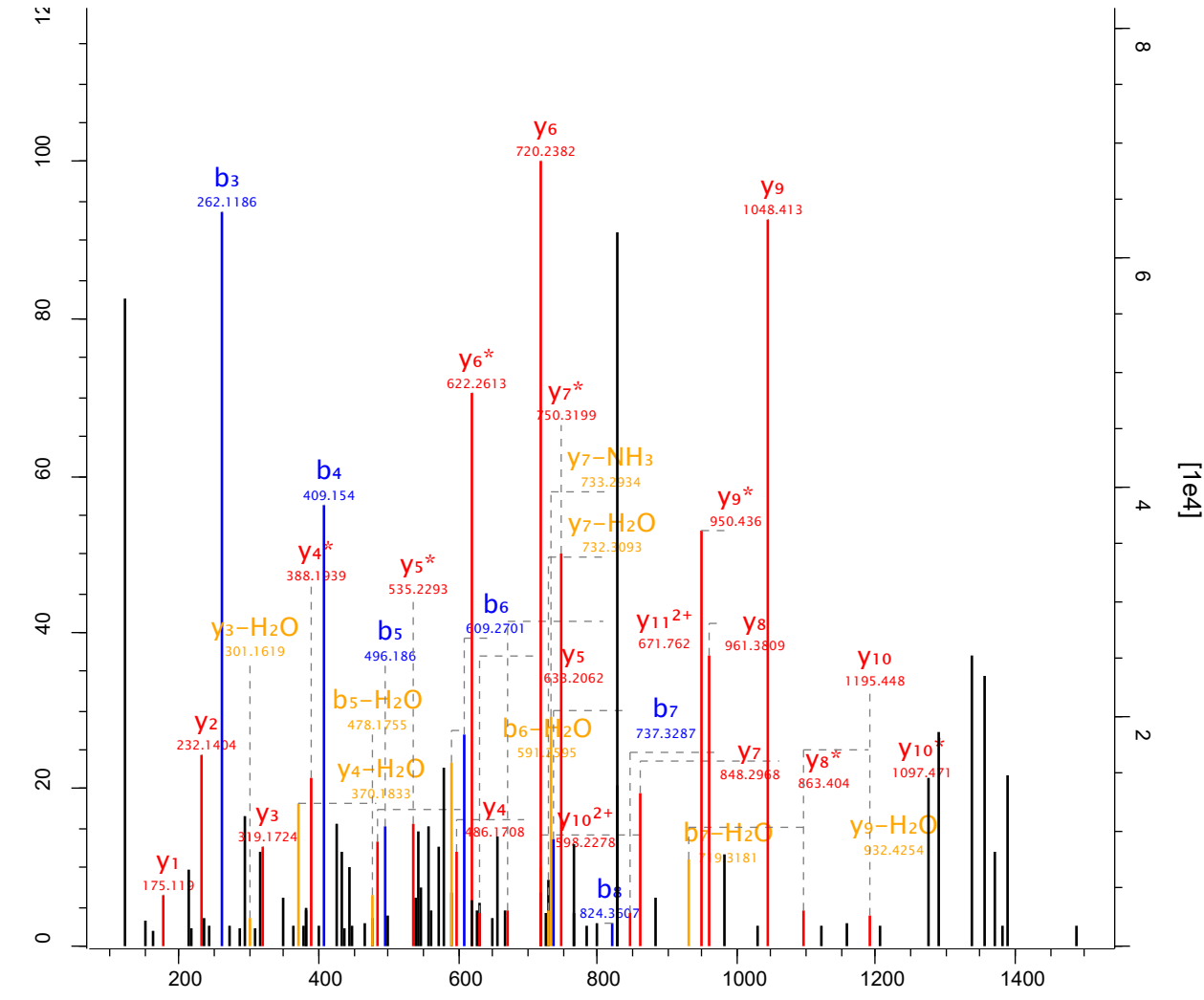
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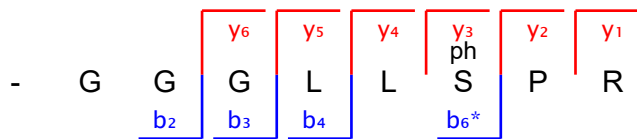
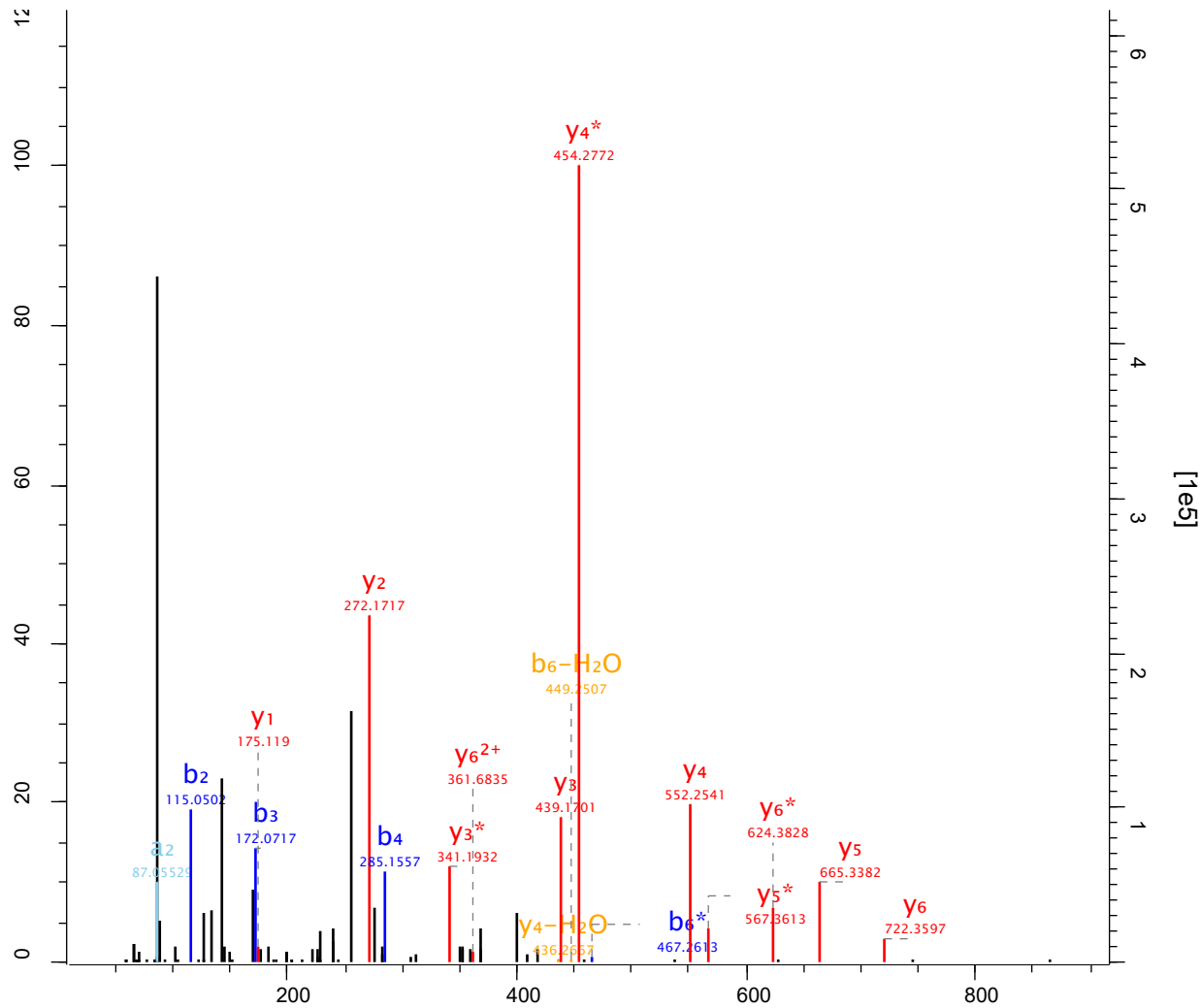
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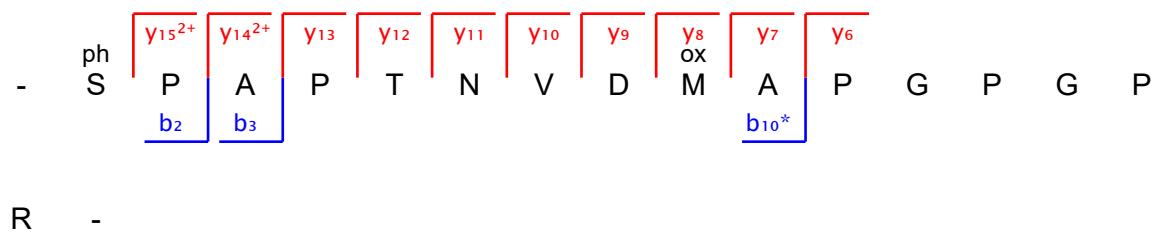
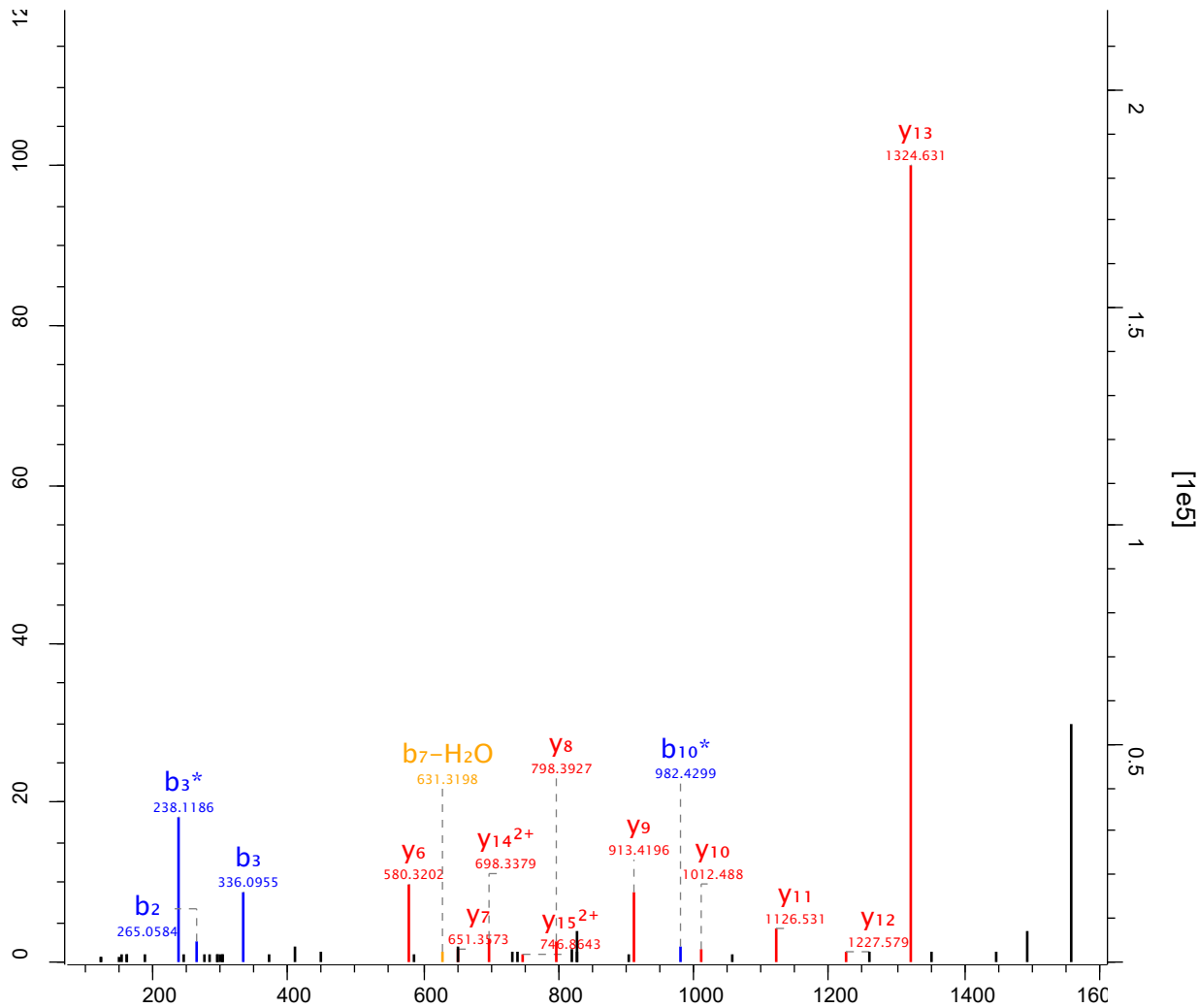
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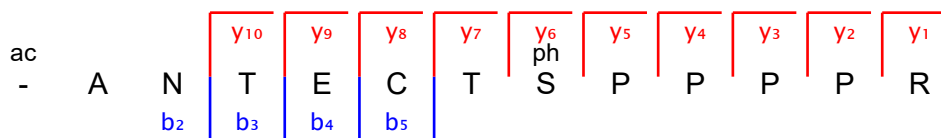
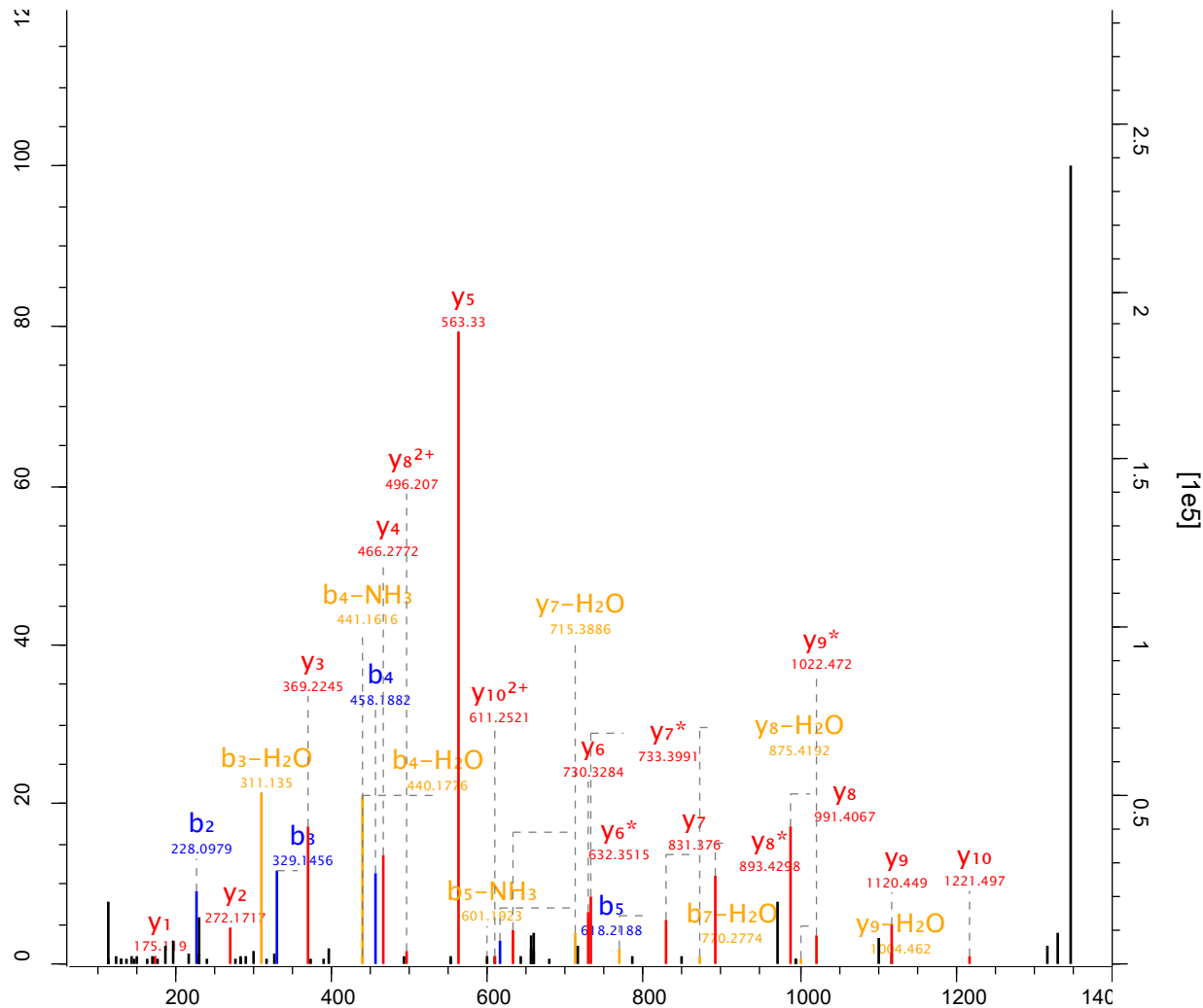
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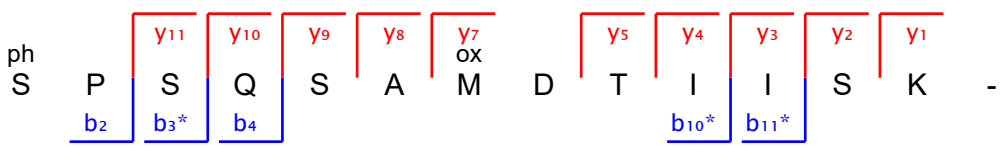
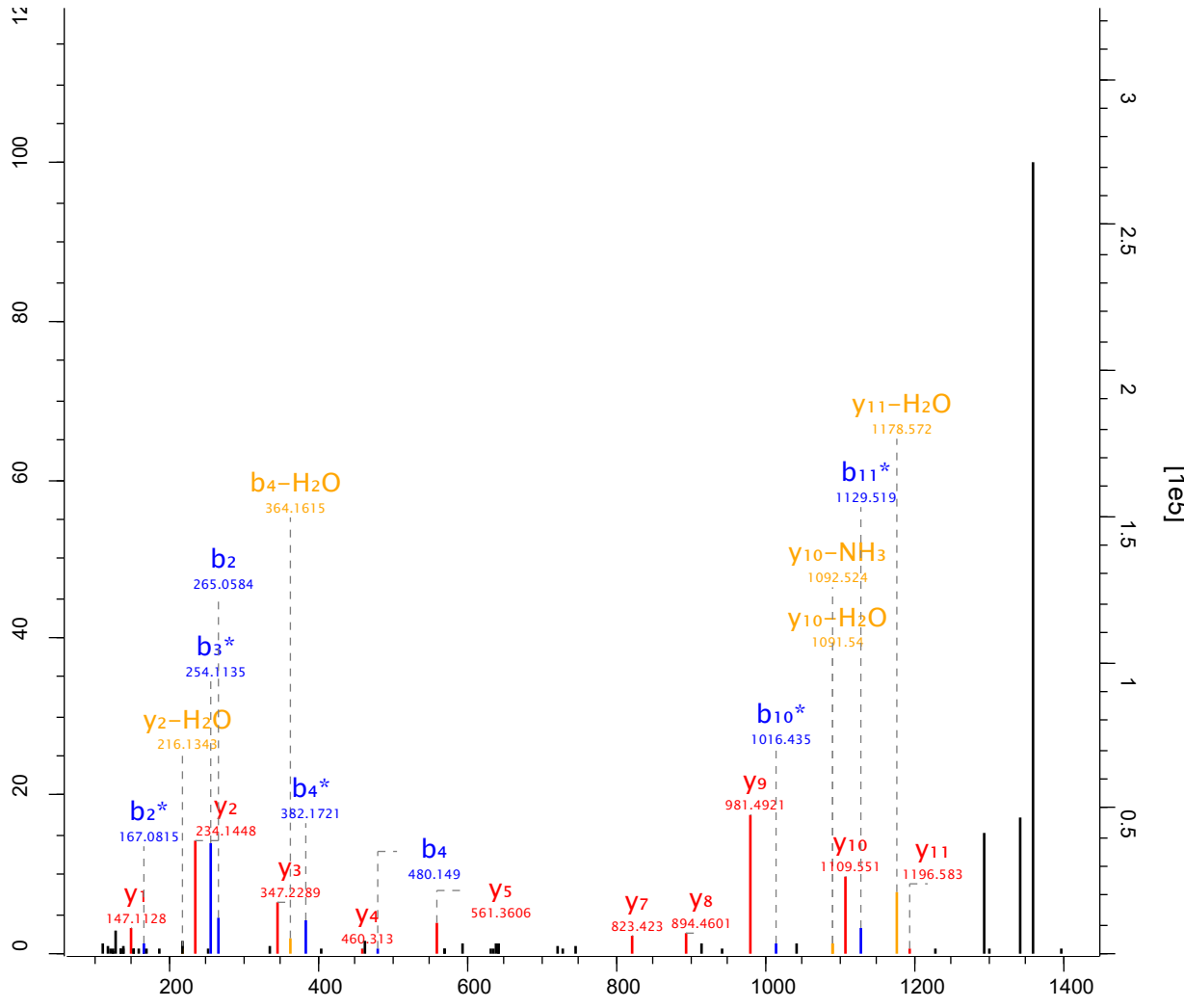
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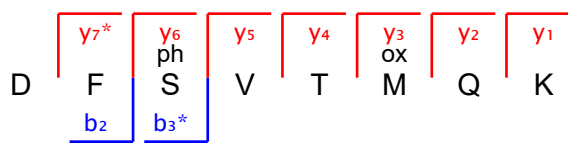
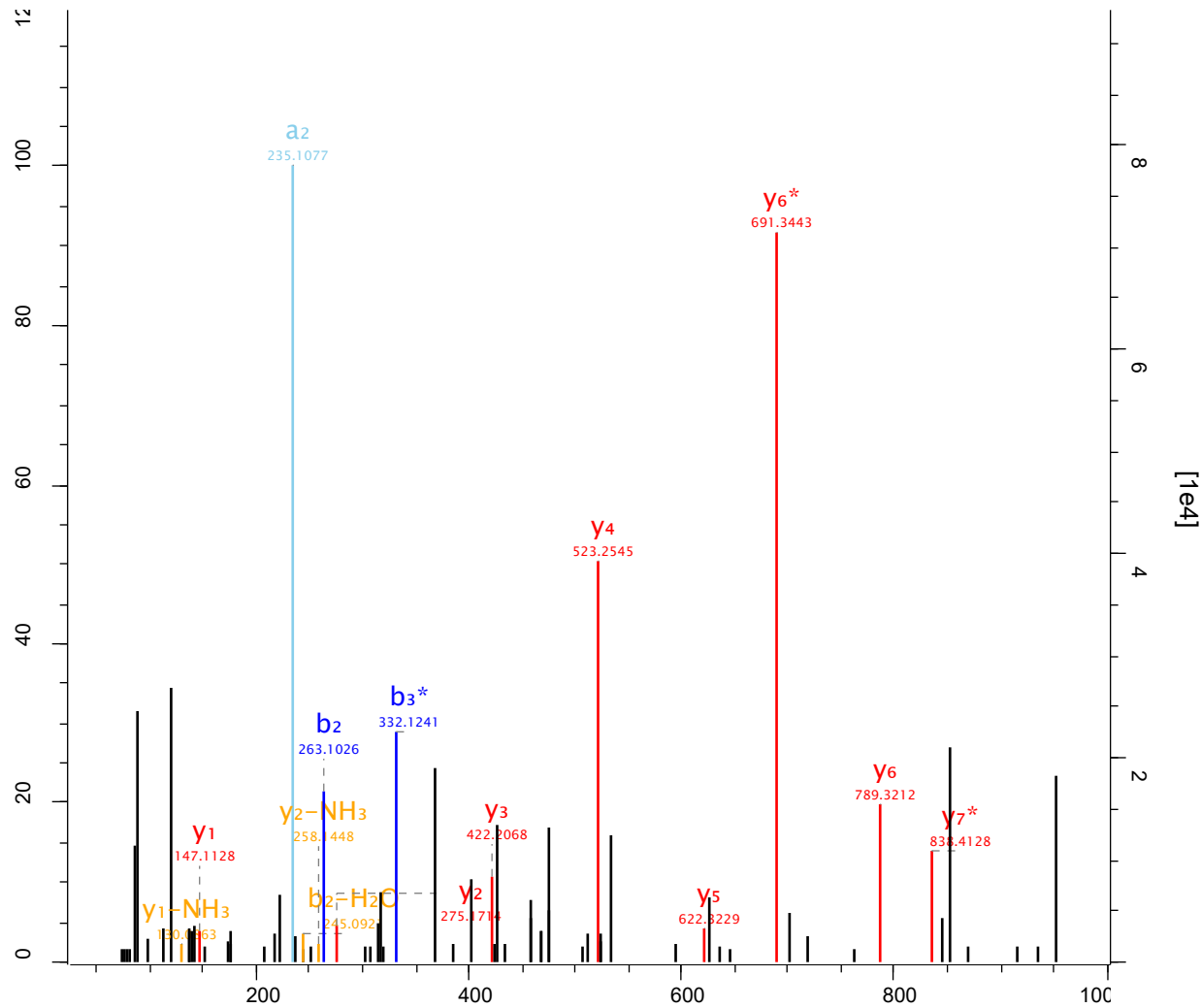
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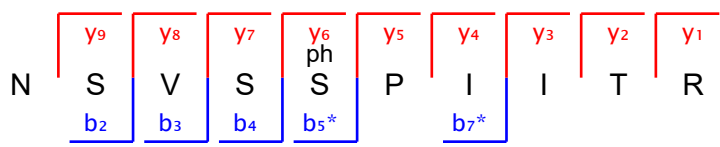
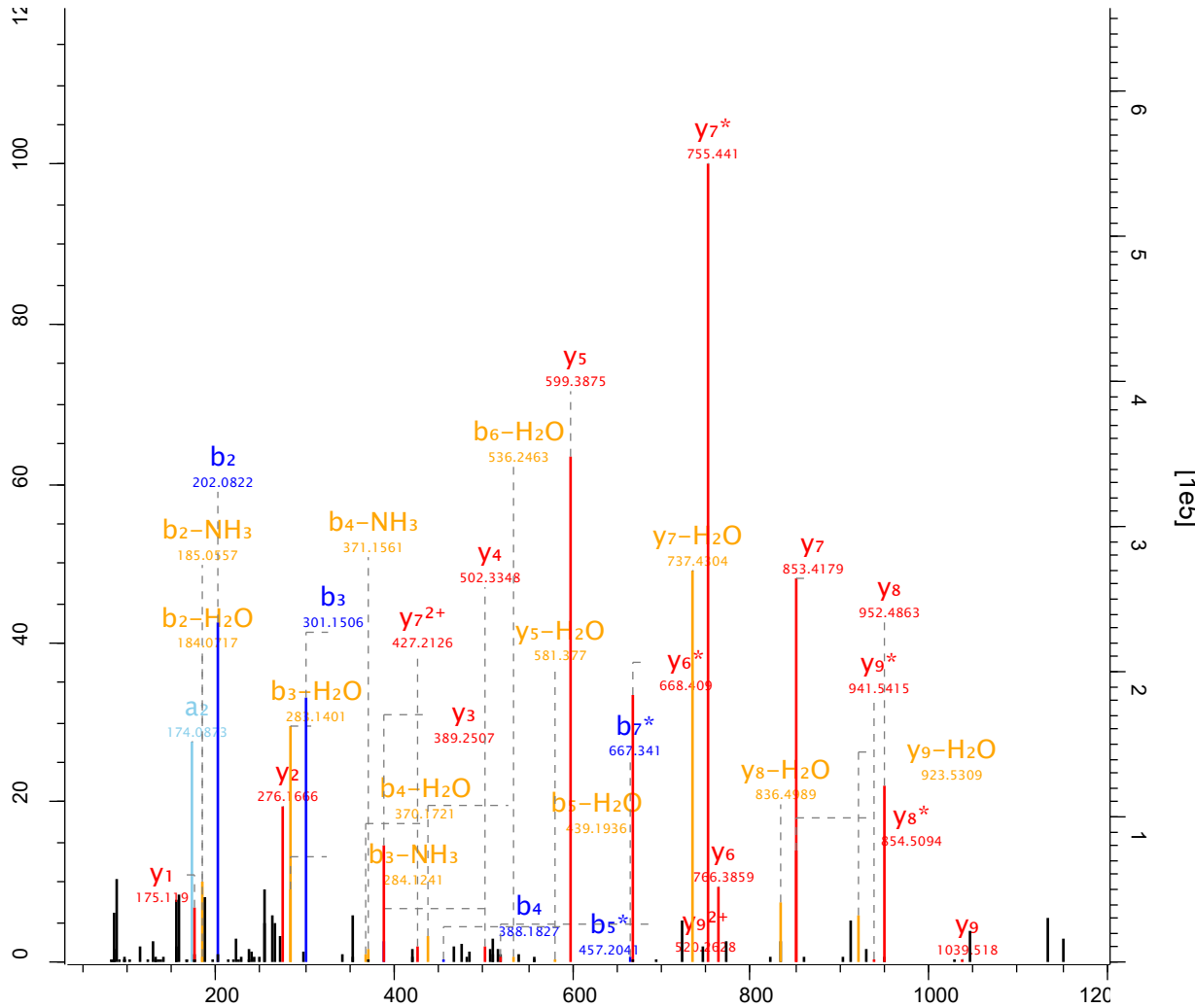
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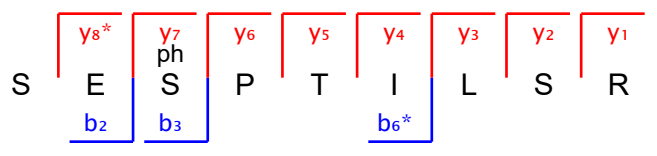
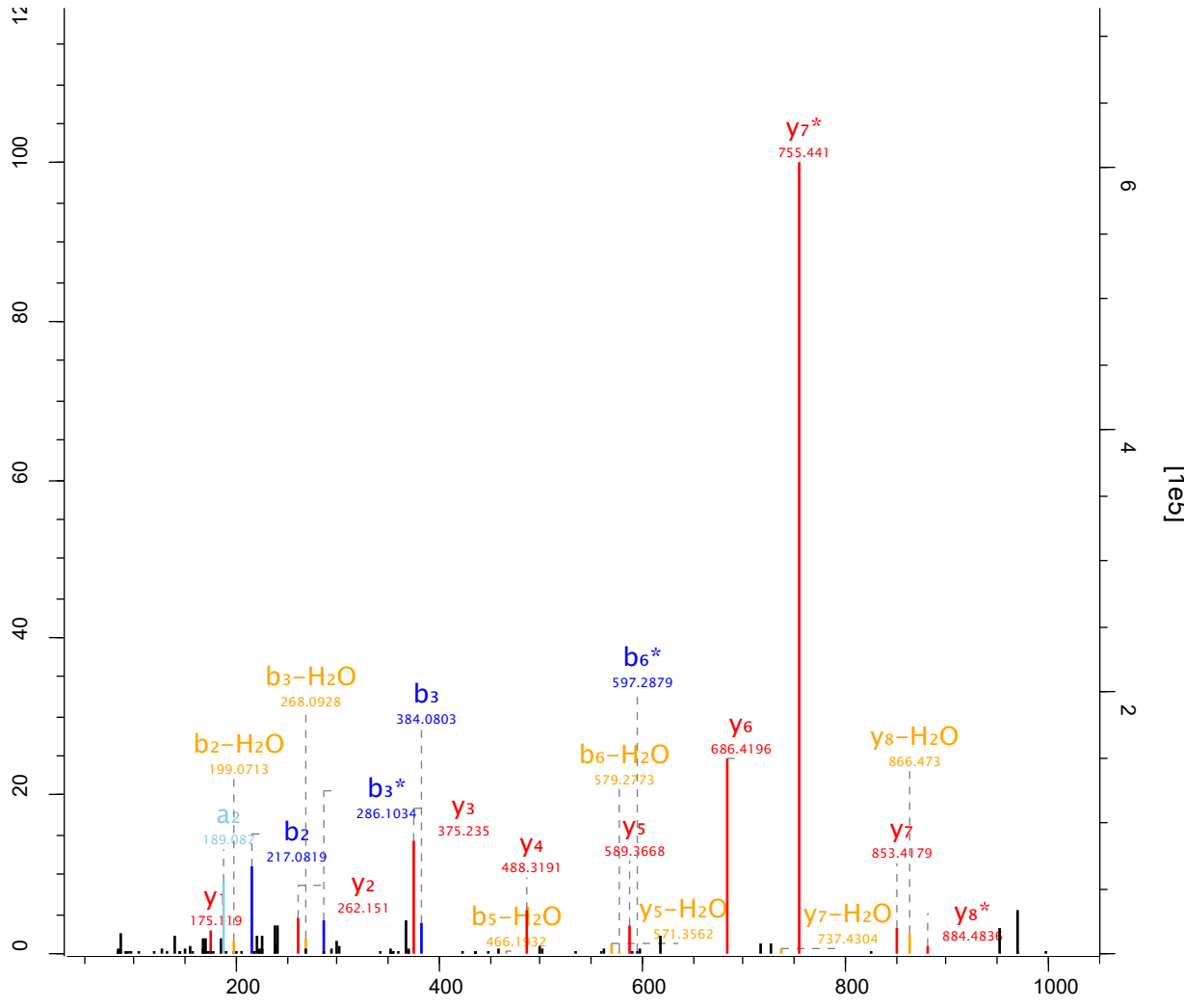
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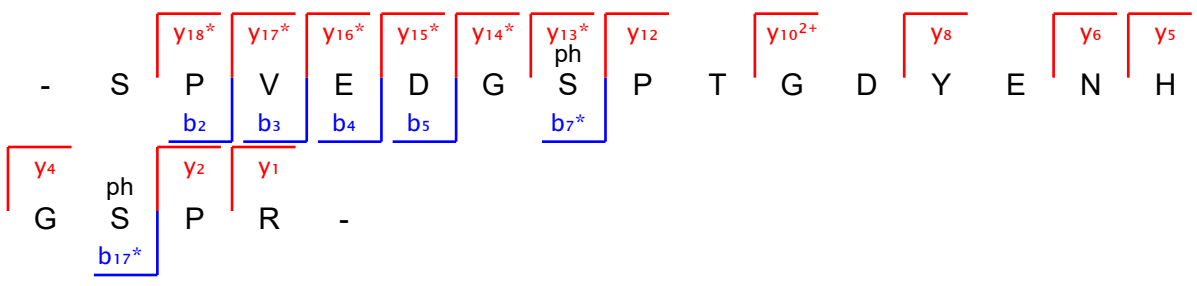
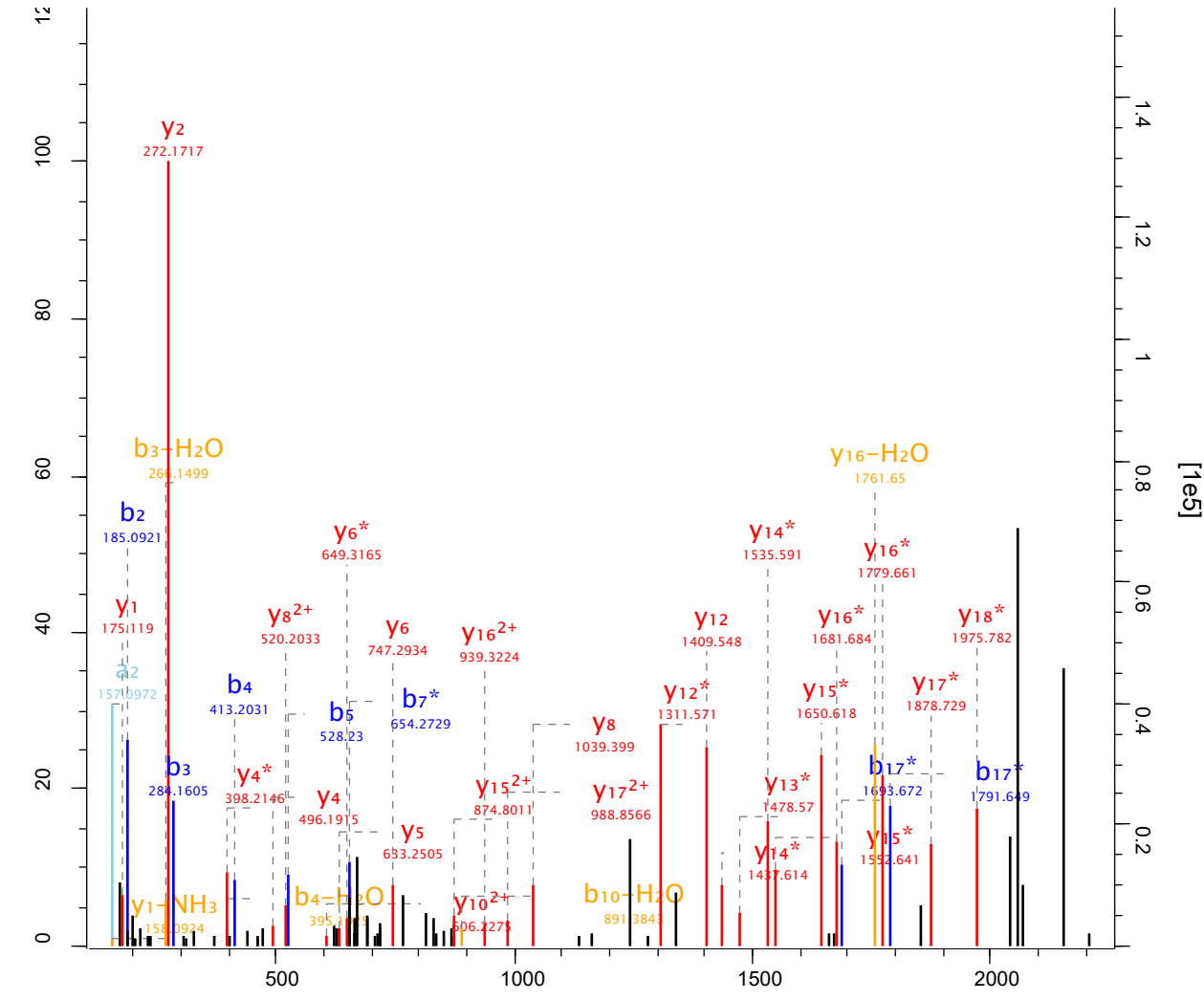
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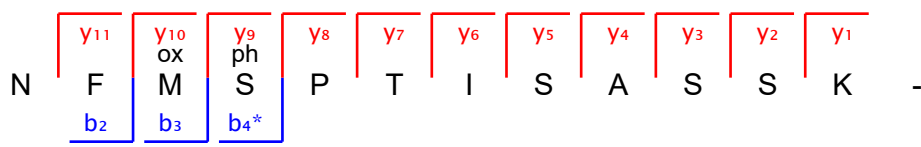
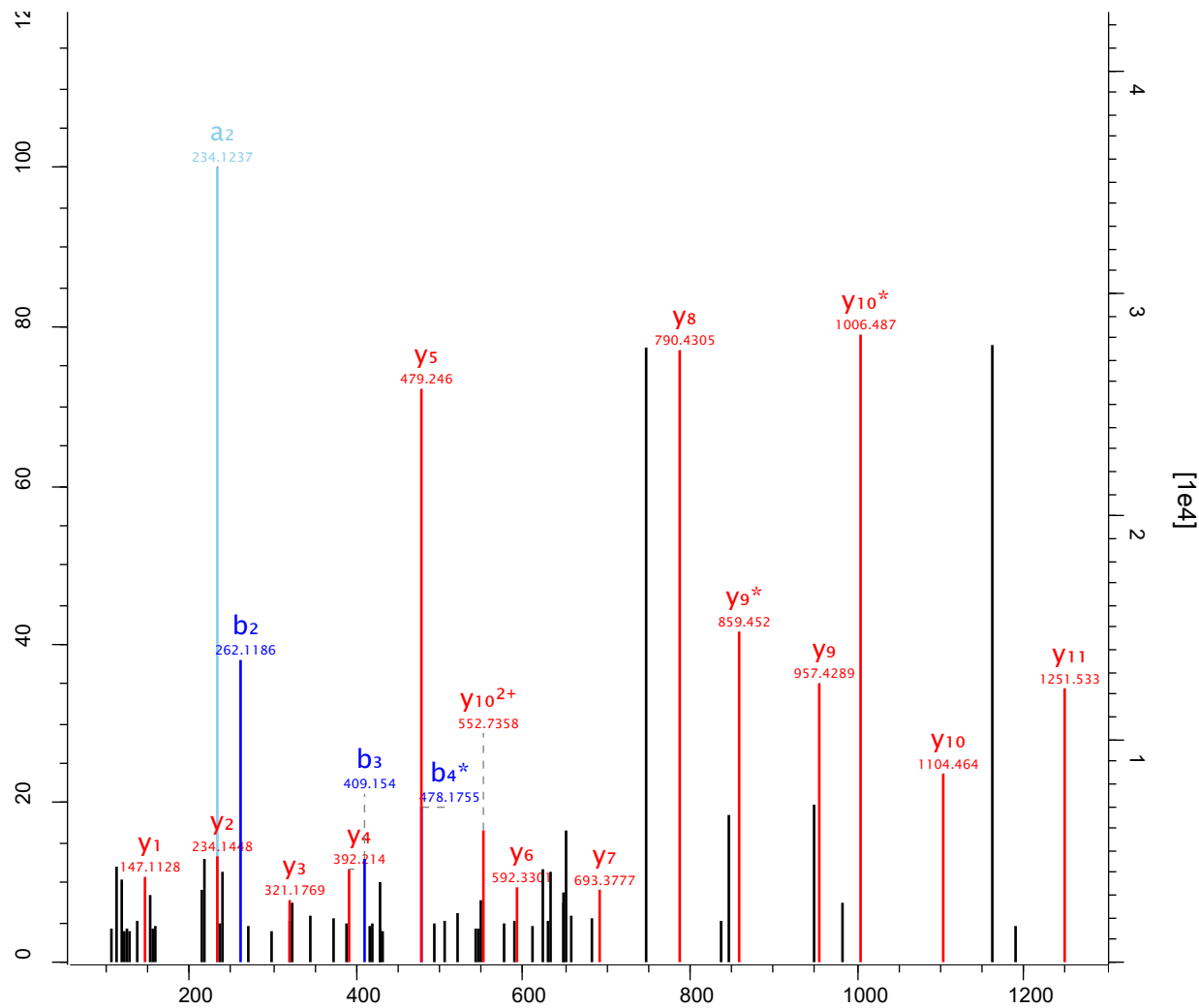
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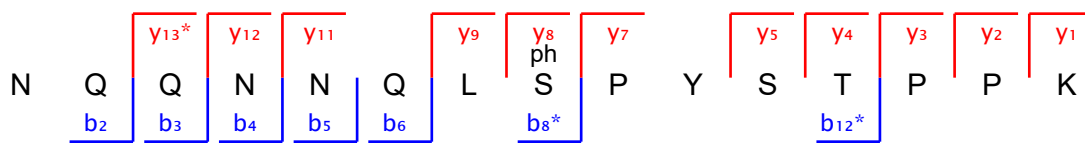
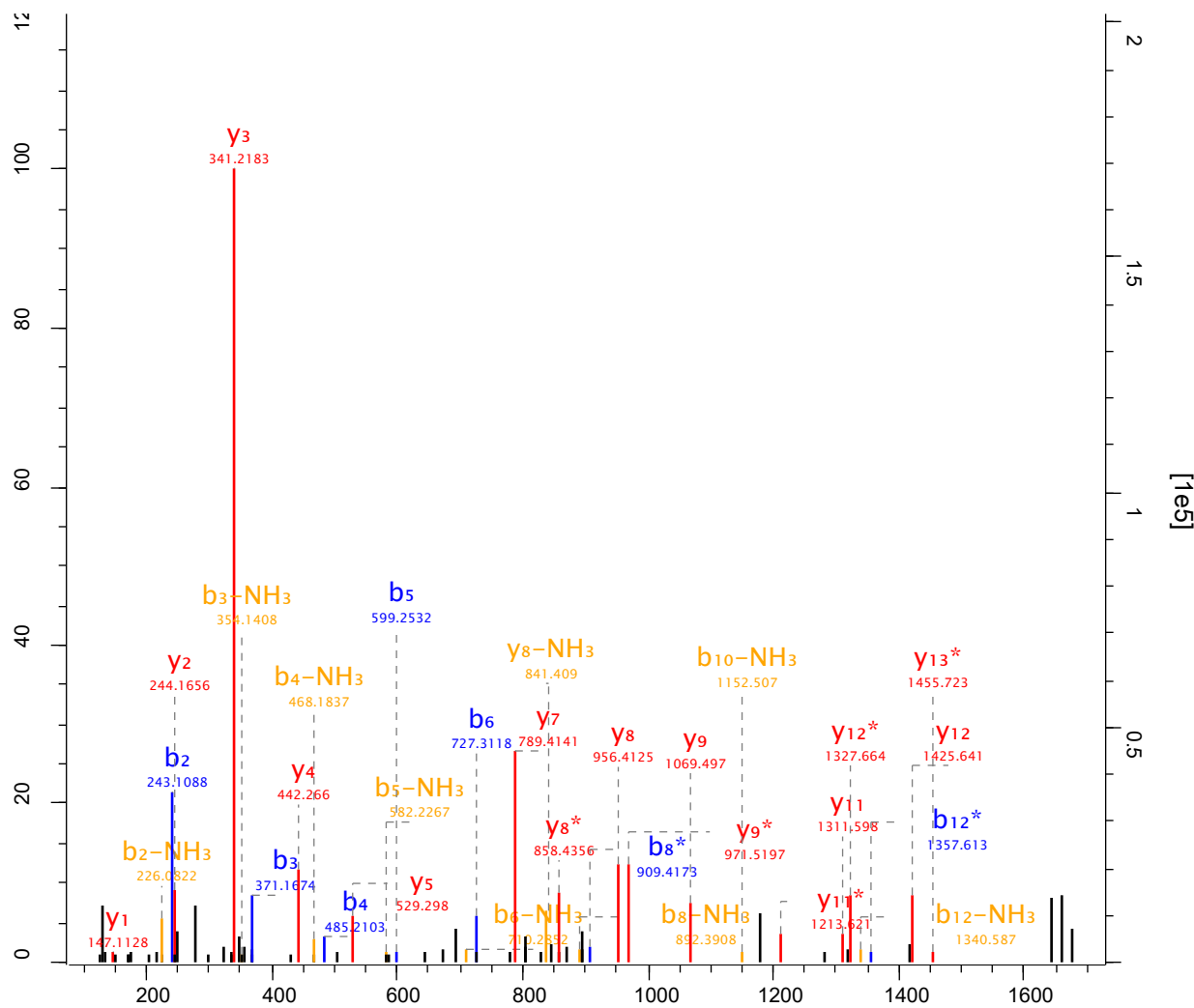
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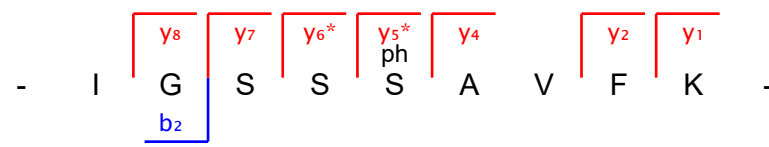
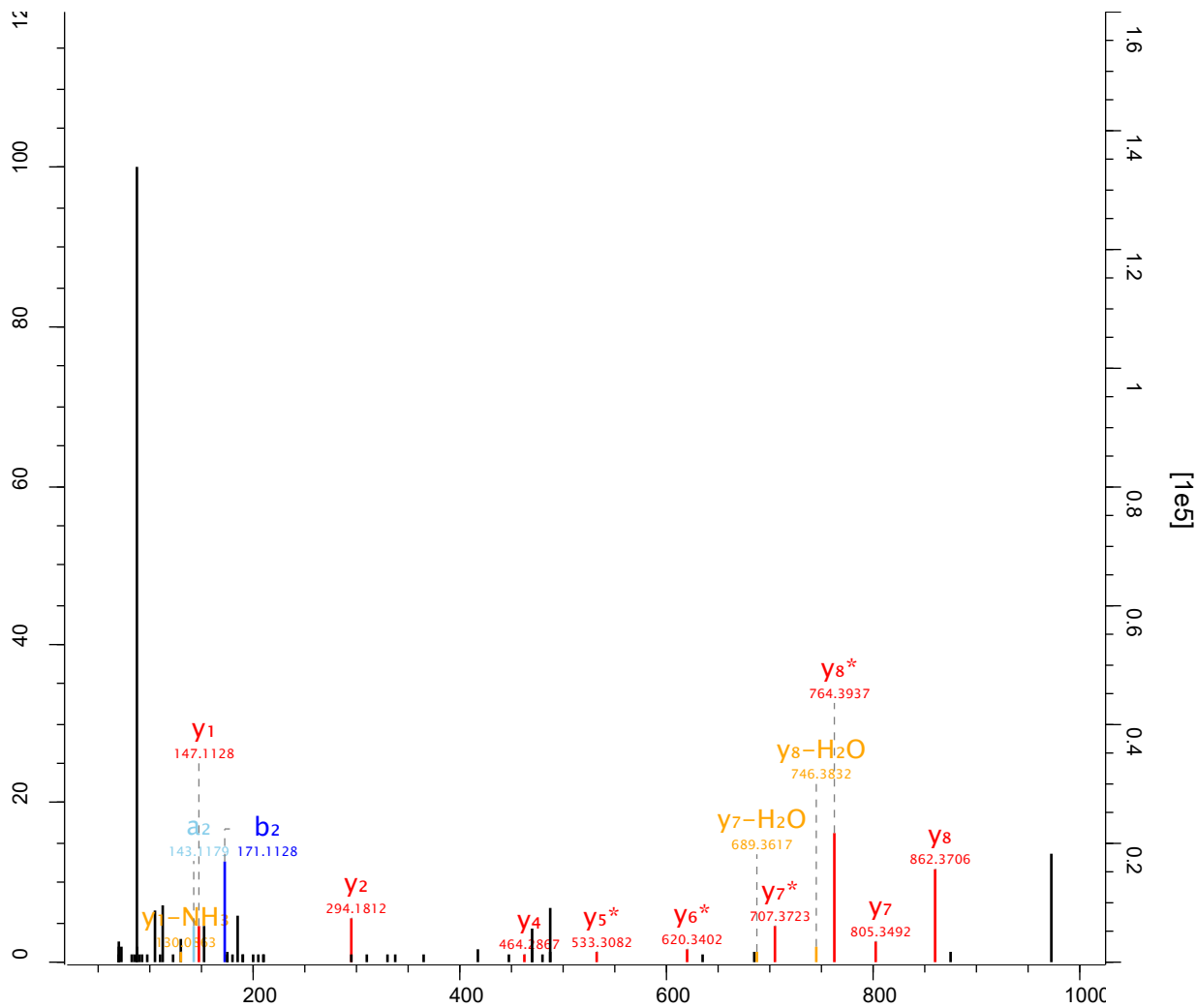
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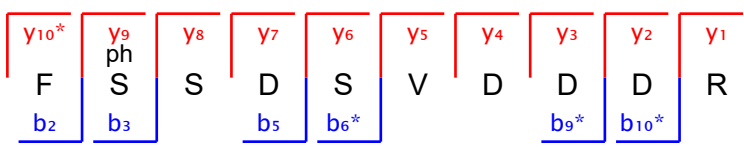
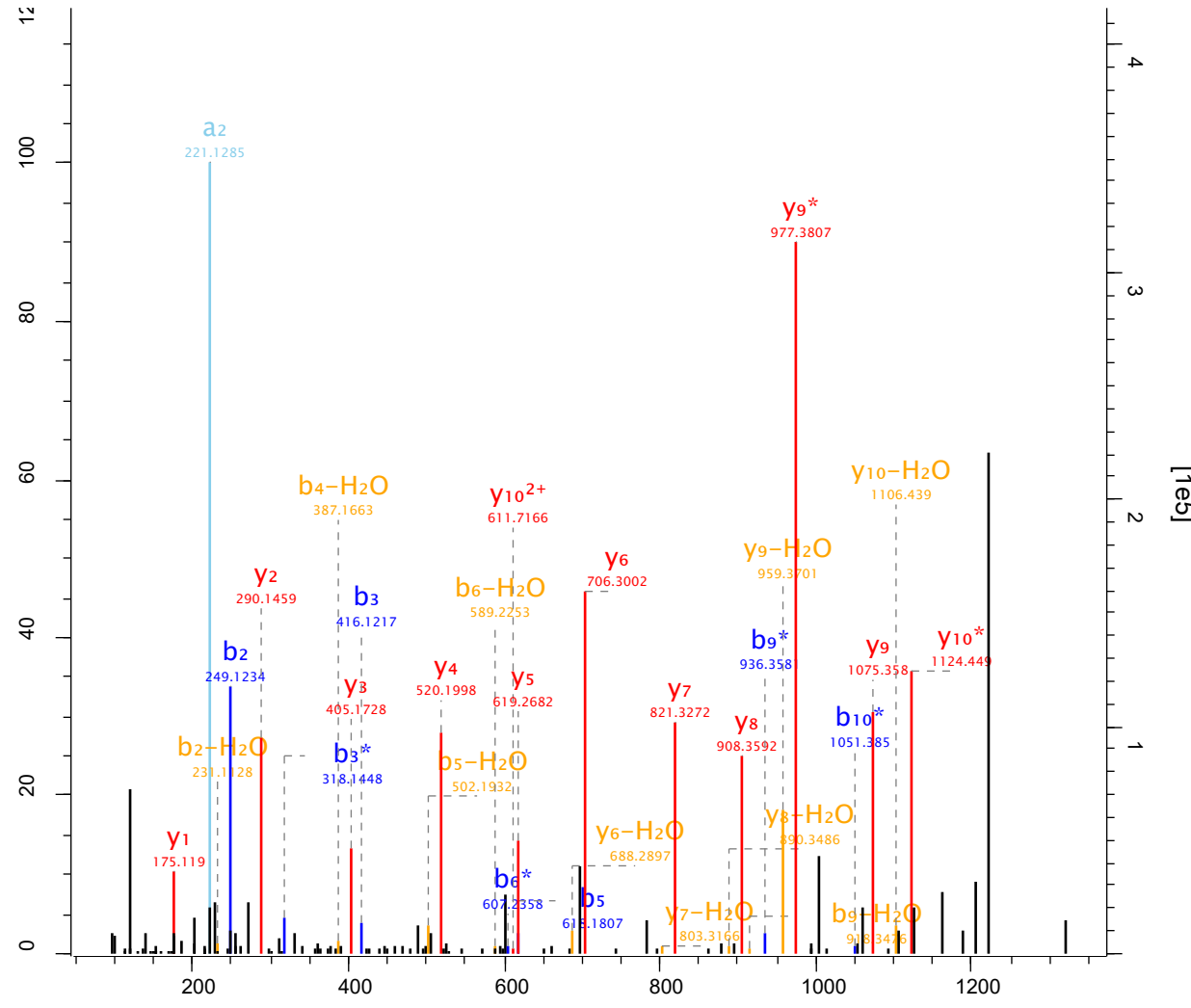
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Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
 sys_15_1 13820 FTMS; HCD 144.8 662.24



Raw file Scan Method Score m/z
 sys_15_1 13846 FTMS; HCD 97.77 577.27

