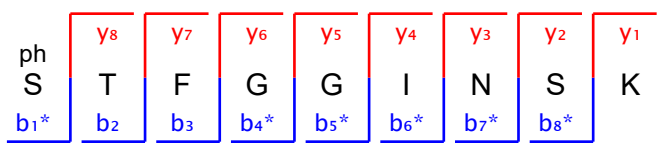
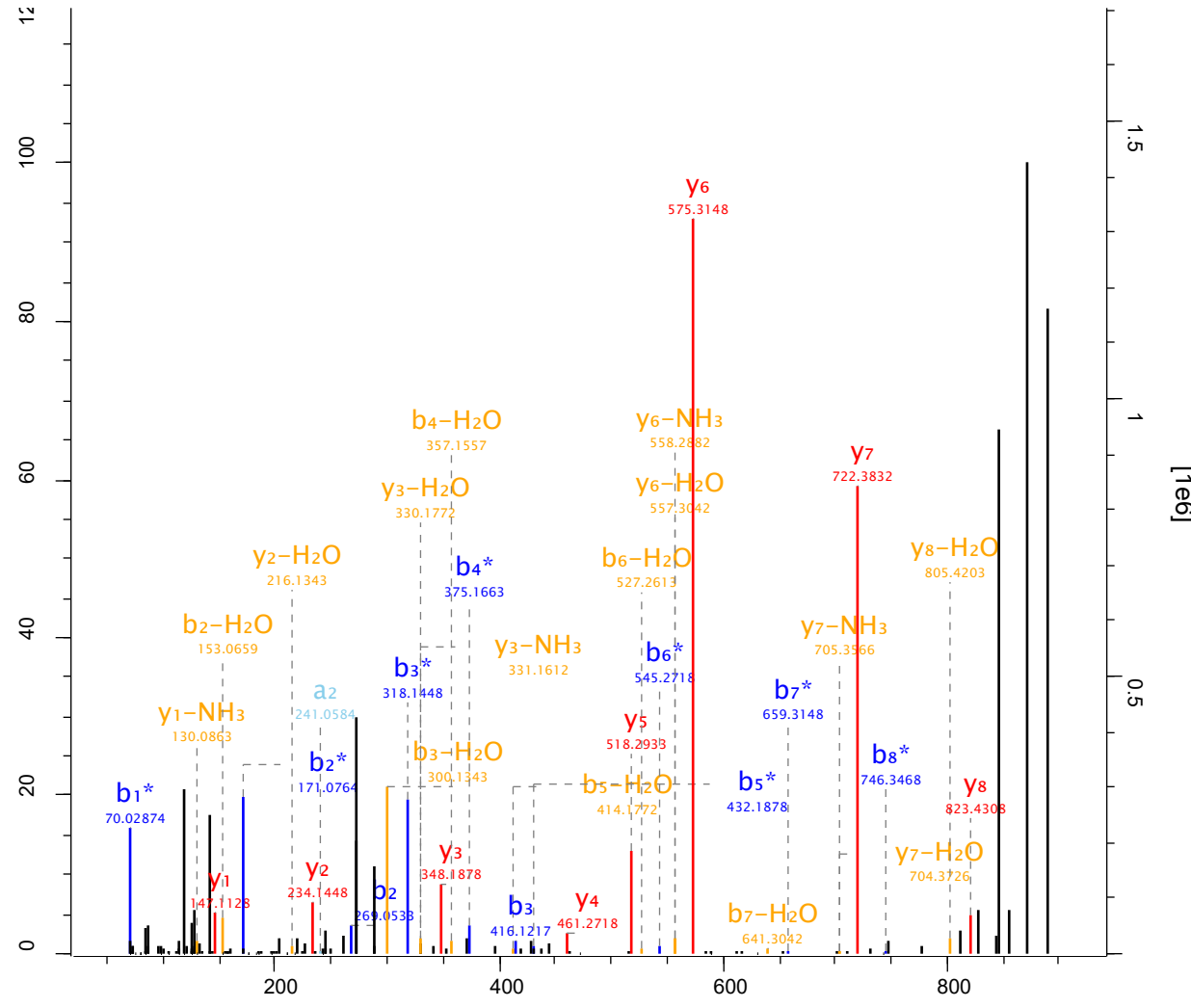


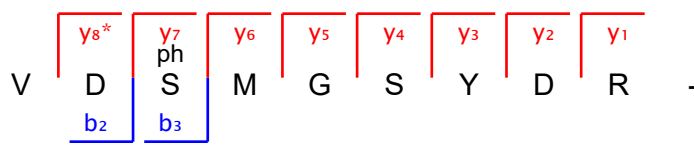
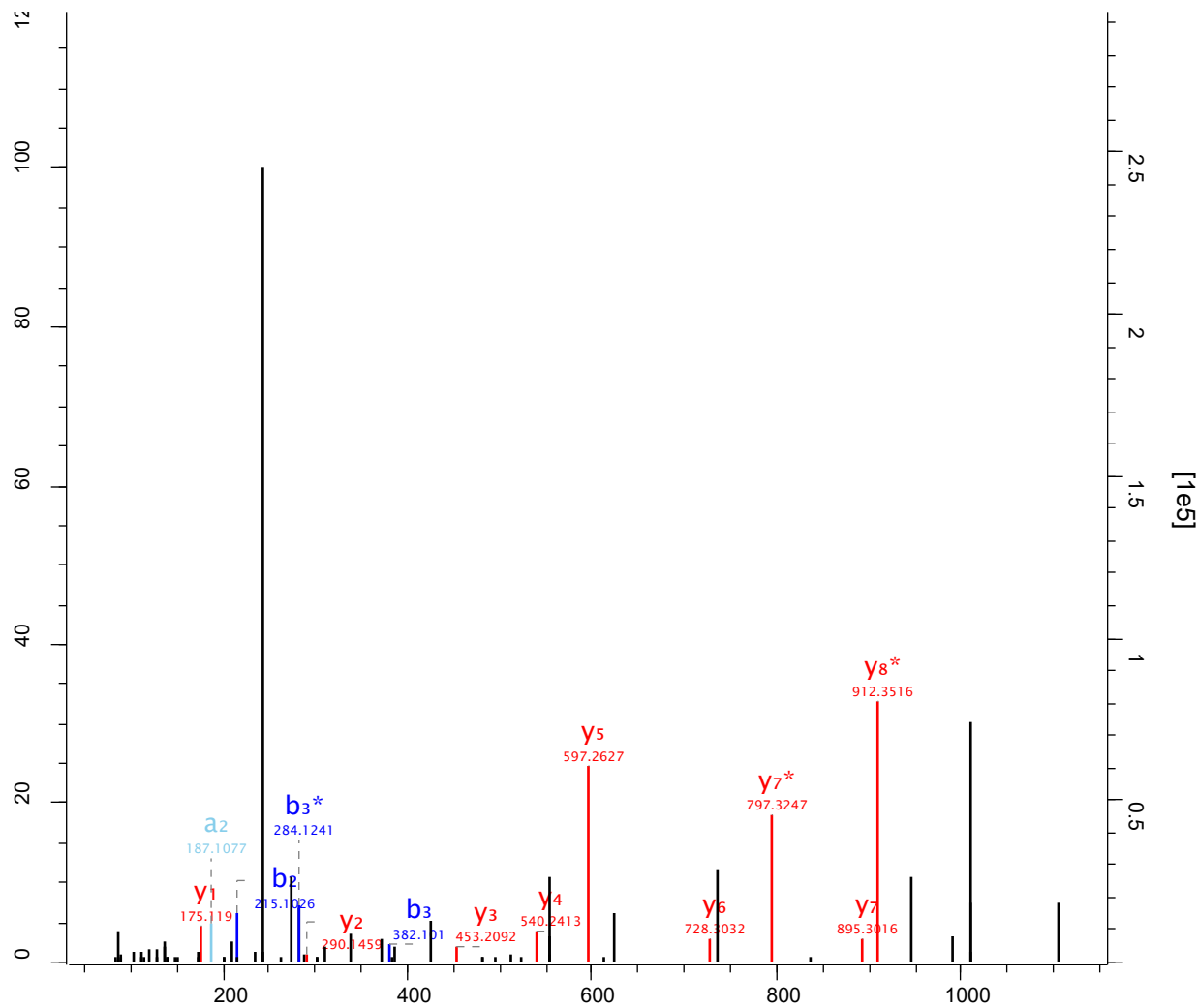
**Supplementary Figure 2:** Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.



Raw file Scan Method Score m/z  
 sys\_05\_2 10545 FTMS; HCD 184.58 495.72

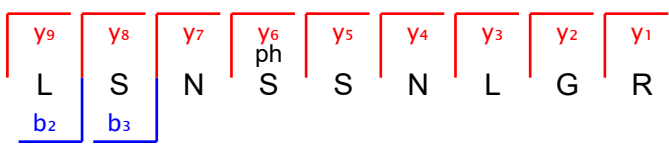
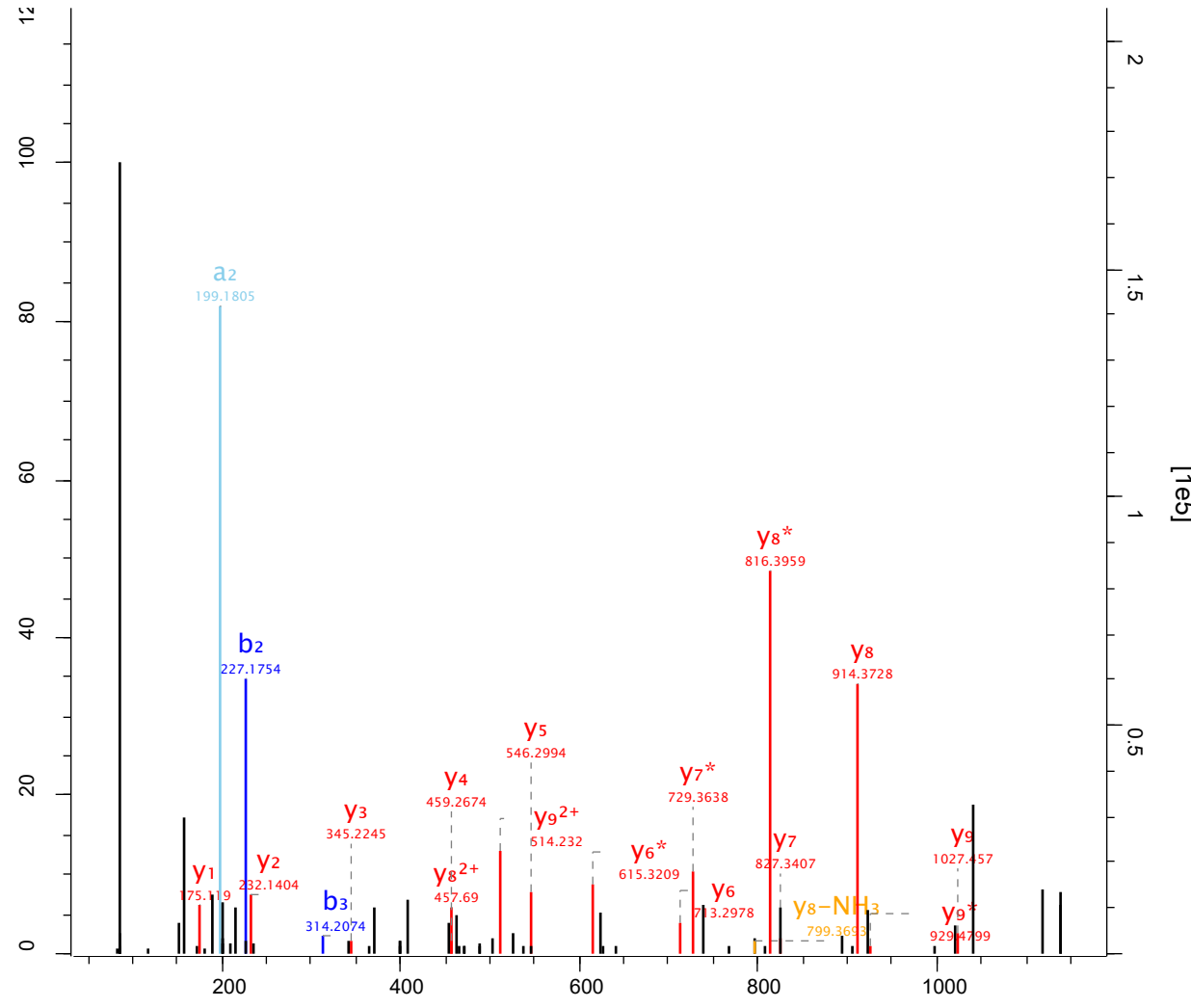


Raw file Scan Method Score m/z  
 sys\_05\_2 10652 FTMS; HCD 54.34 555.2

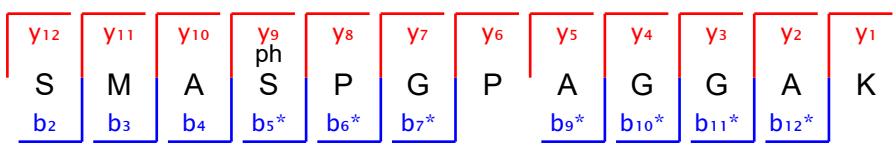
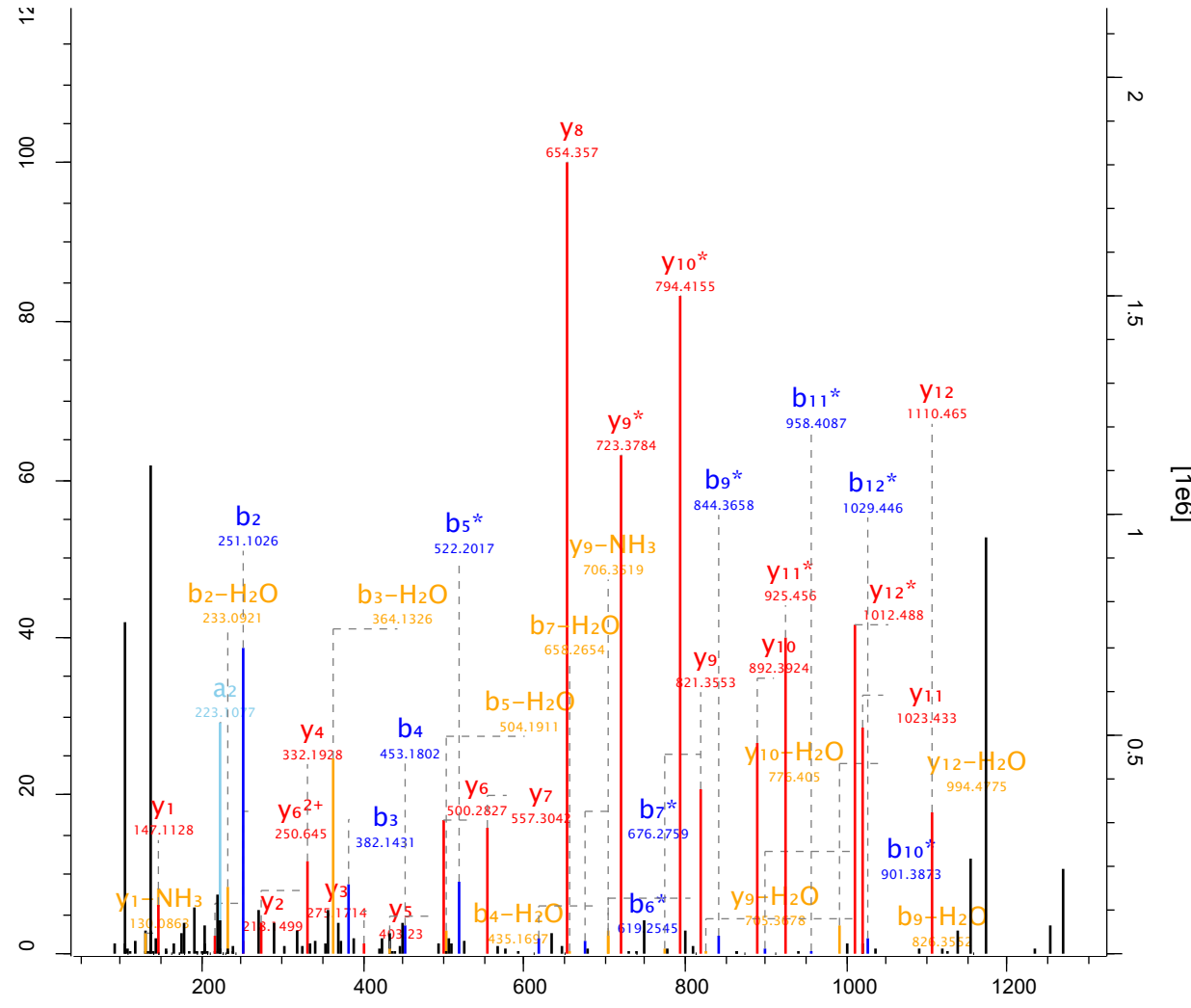




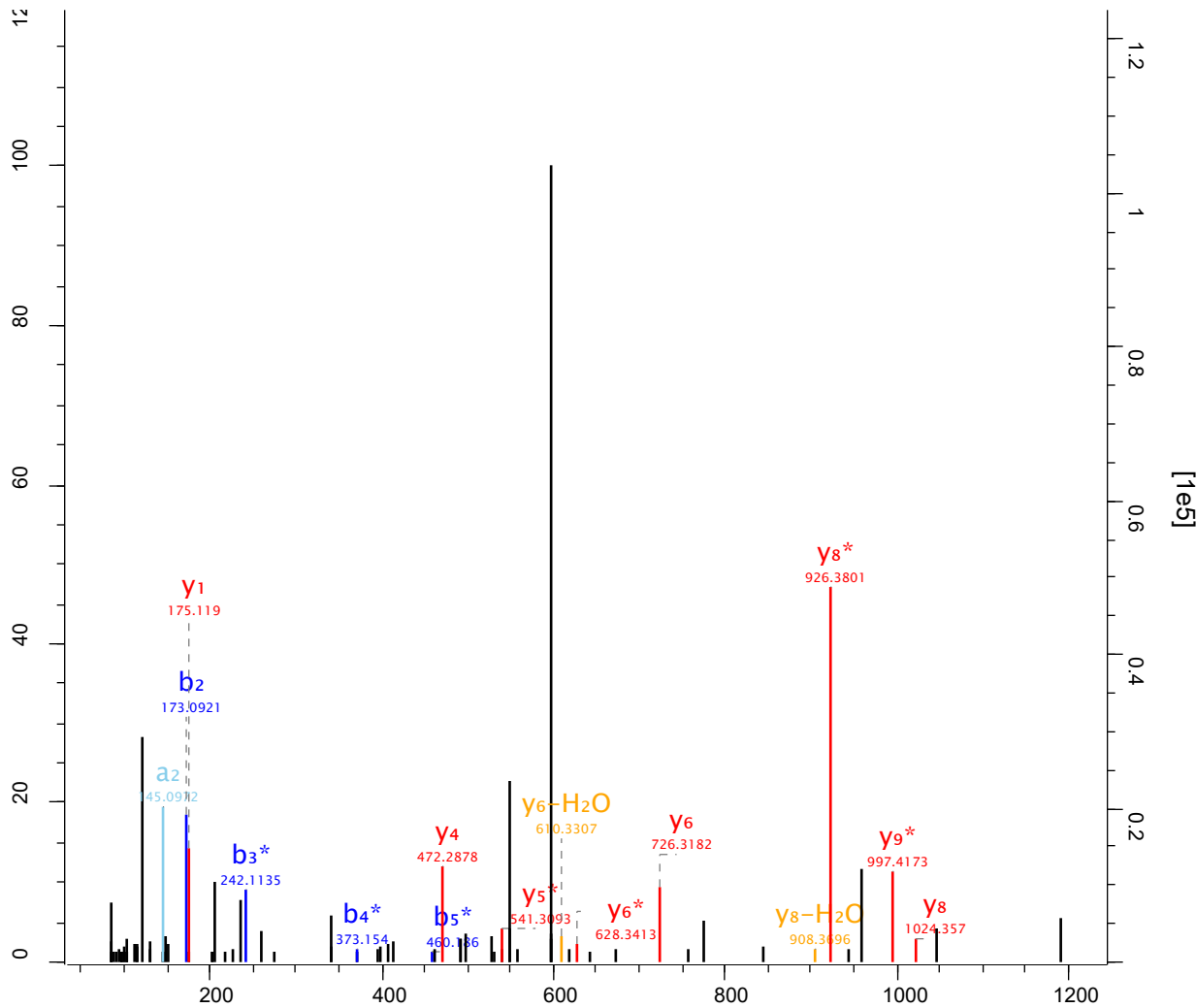
Raw file Scan Method Score m/z  
 sys\_05\_2 10685 FTMS; HCD 83.53 570.77



Raw file Scan Method Score m/z  
 sys\_05\_2 10875 FTMS; HCD 184.99 637.27



Raw file Scan Method Score m/z  
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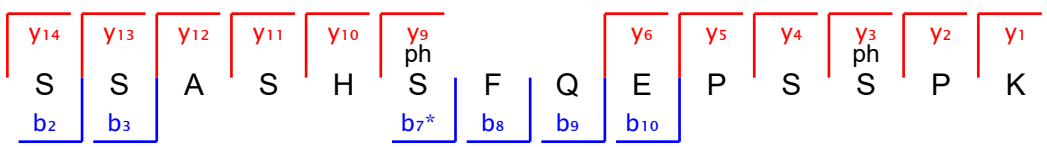
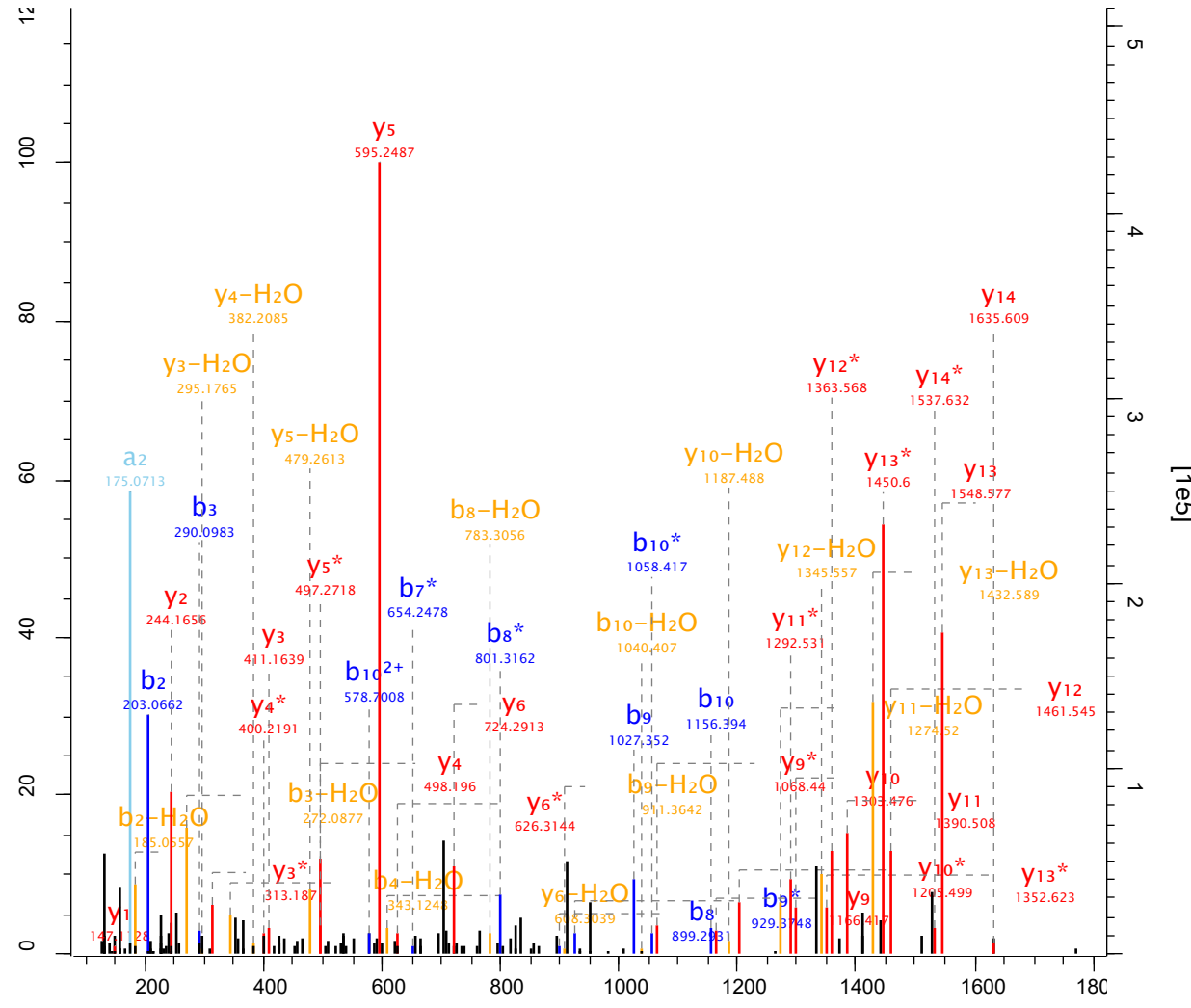


- T A S M S S P T V R -

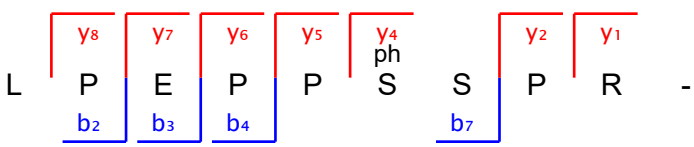
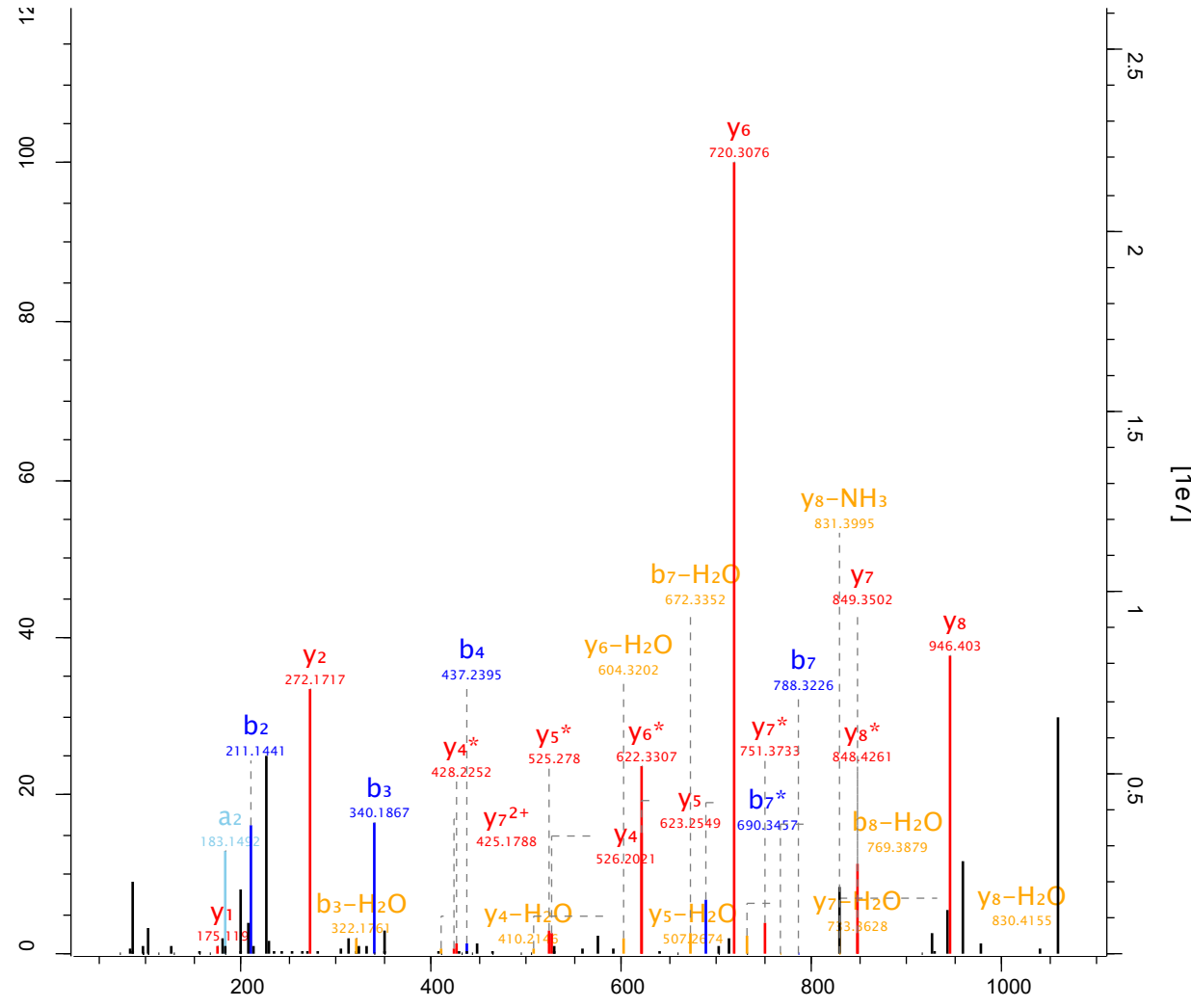
Fragmentation labels below the sequence:

- $y_9^*$  (A)
- $y_8$  (S)
- $y_6$  (S)
- $y_5^*$  (S)
- $y_4$  (P)
- $y_1$  (R)
- $b_2$  (A)
- $b_3^*$  (S)
- $b_4^*$  (M)
- $b_5^*$  (S)

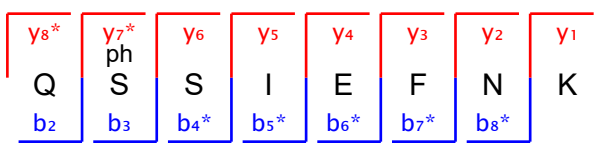
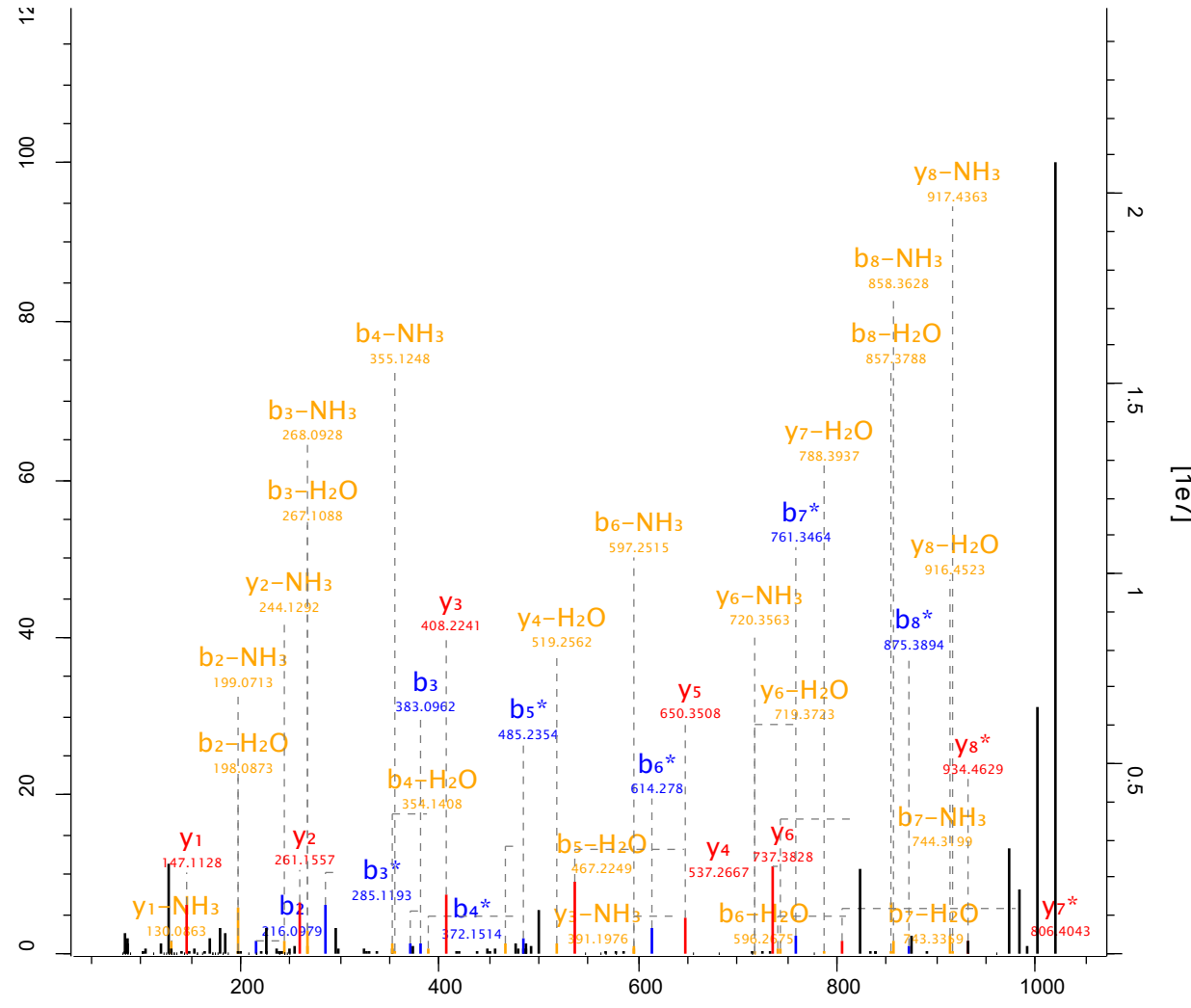
Raw file Scan Method Score m/z  
 sys\_05\_2 11428 FTMS; HCD 229.59 584.22



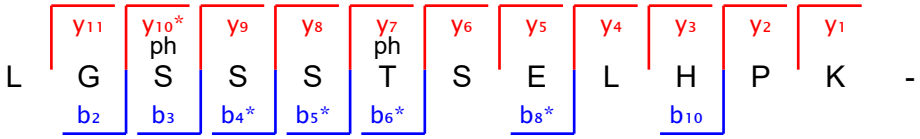
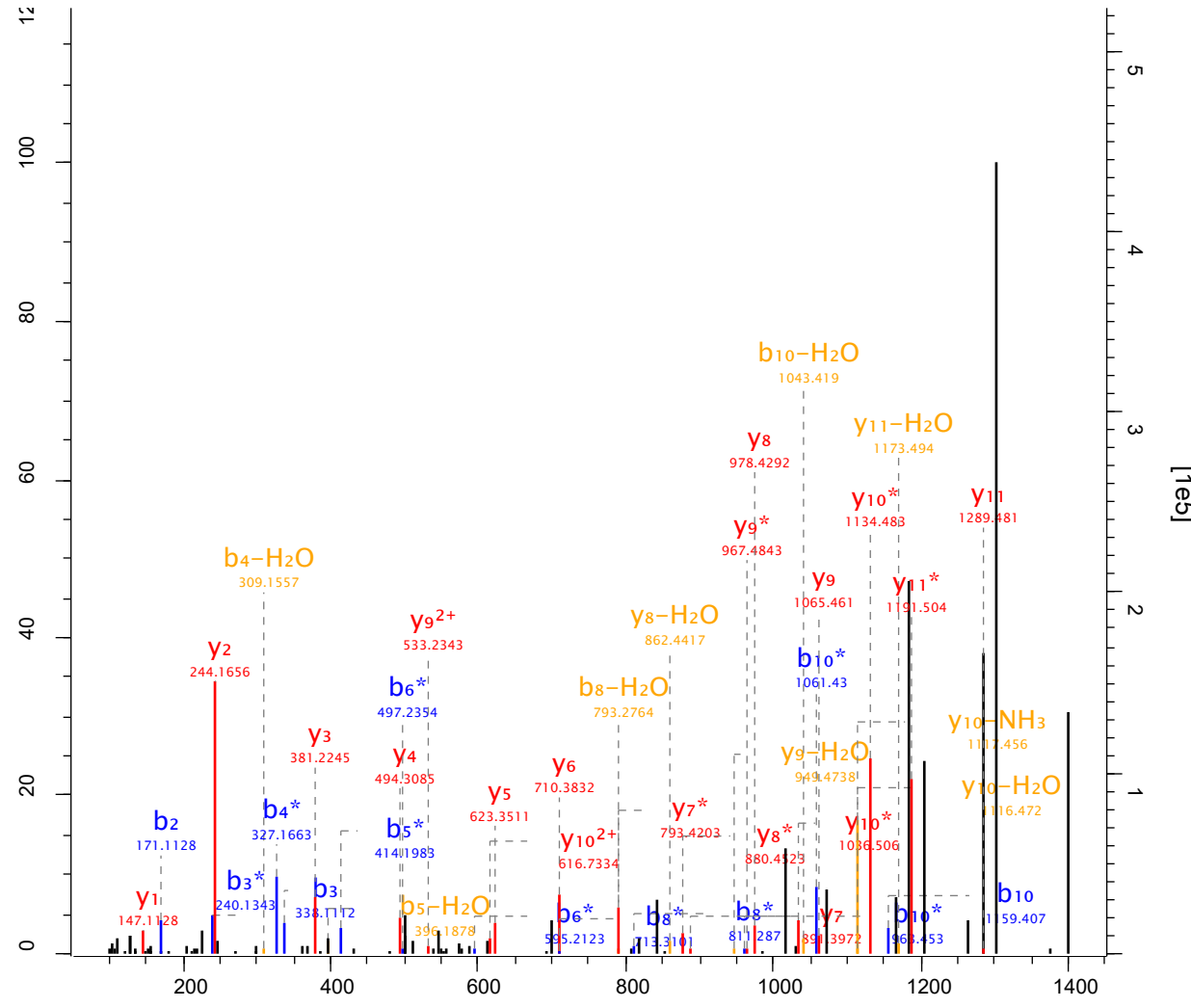
Raw file Scan Method Score m/z  
 sys\_05\_2 11434 FTMS; HCD 196.16 530.25



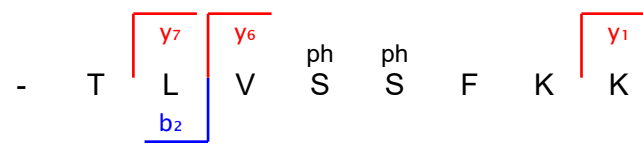
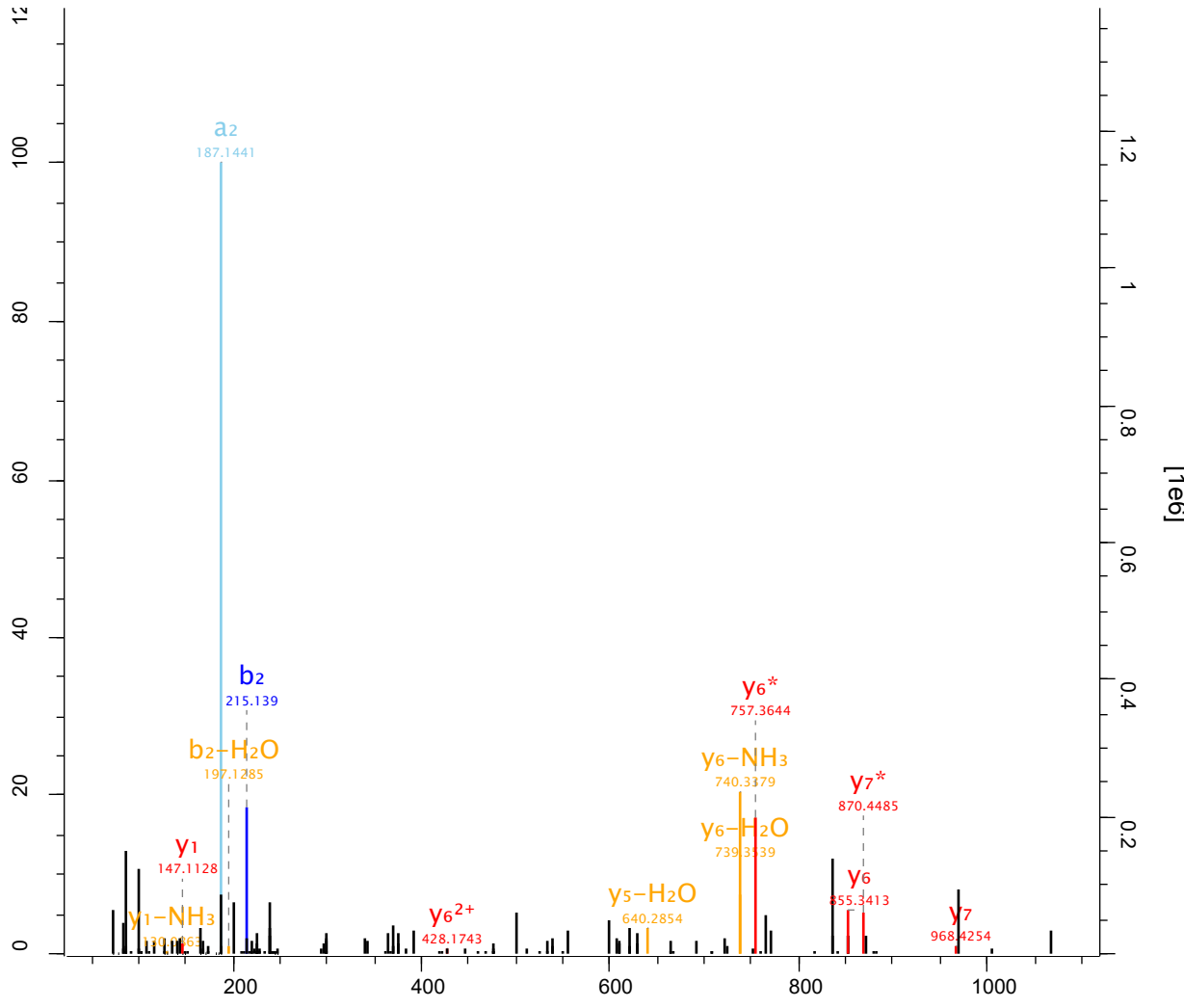
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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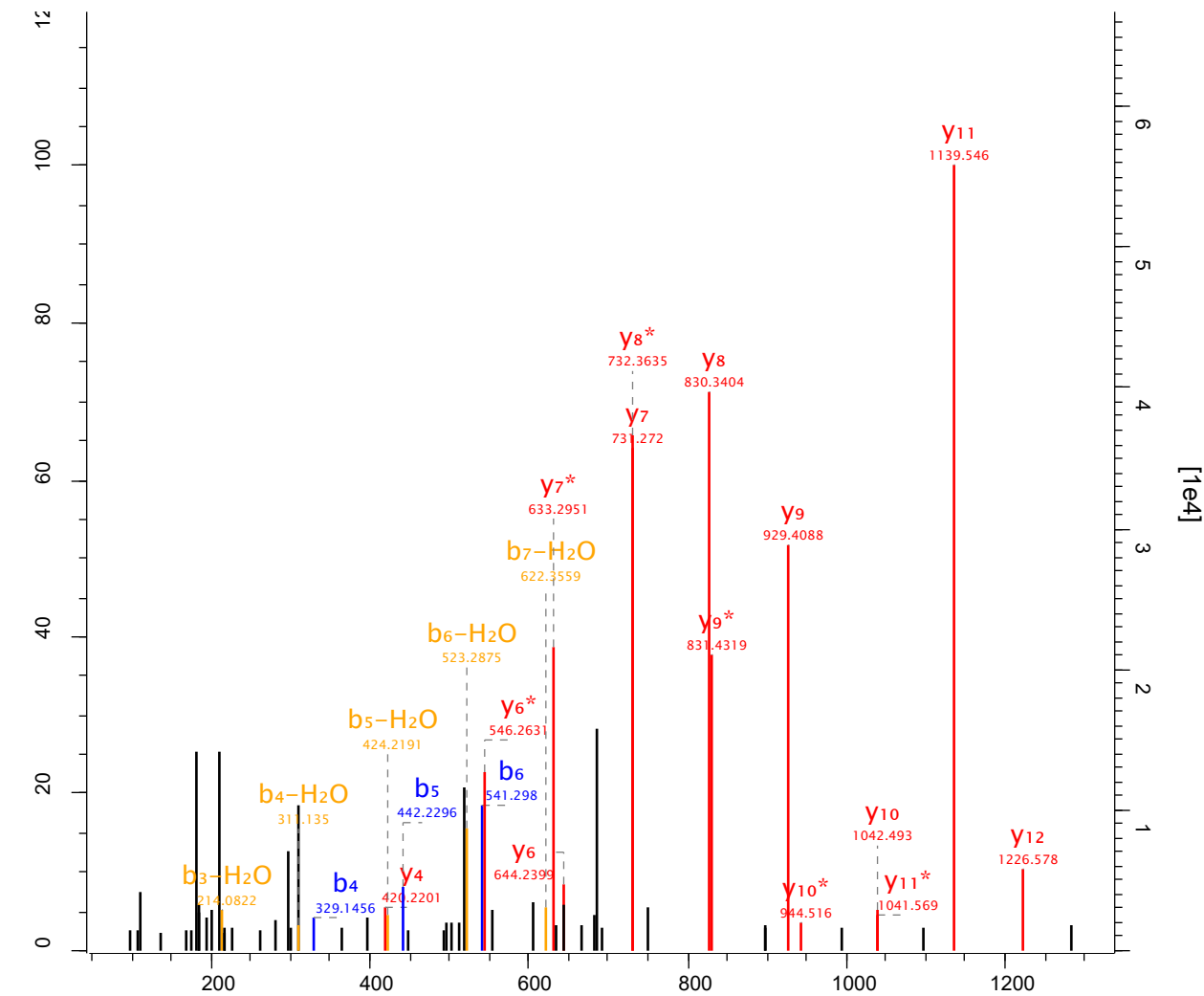
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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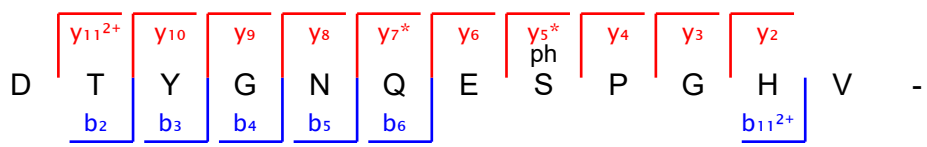
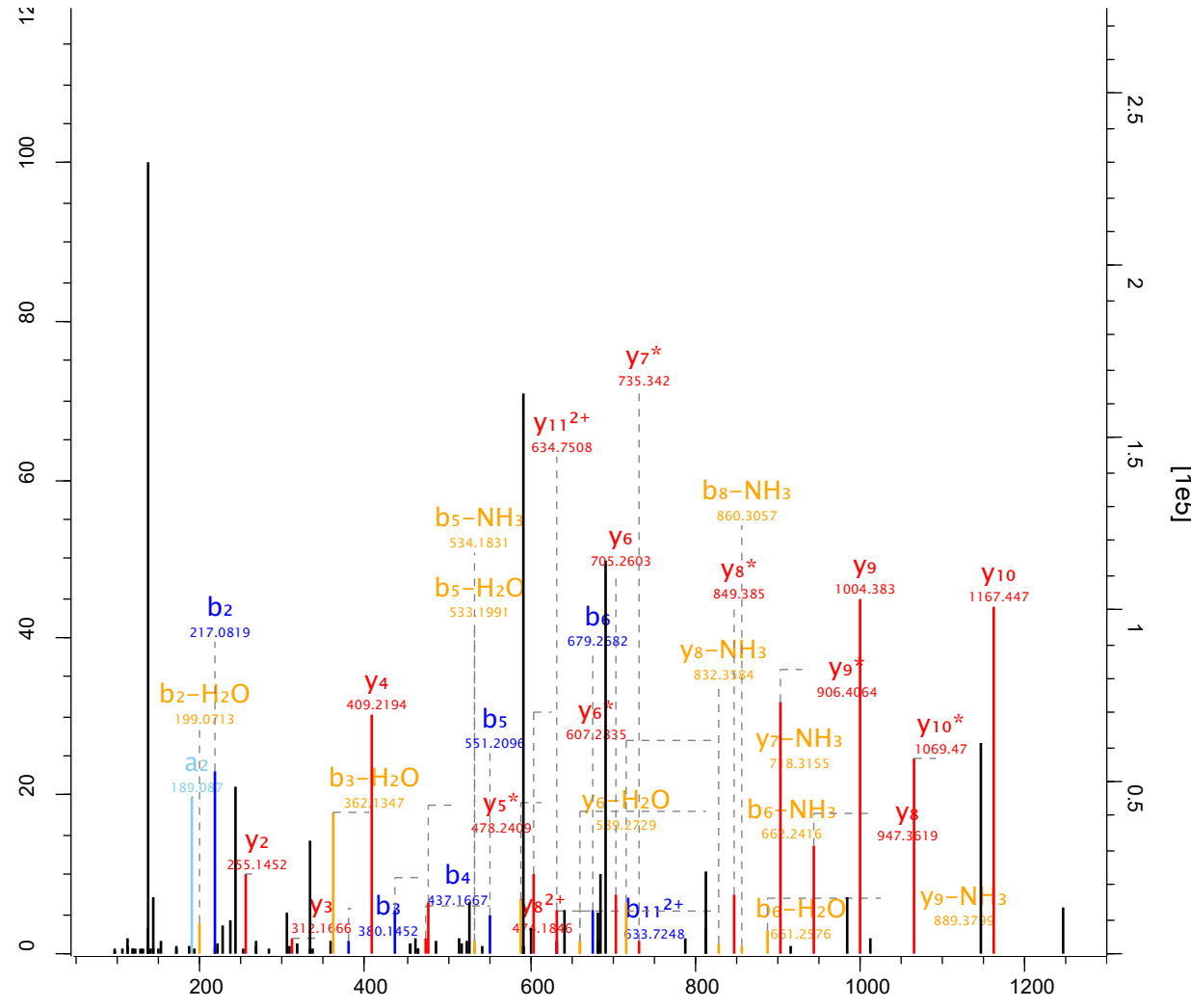


- G S S P I V V S G ph S S G T R -

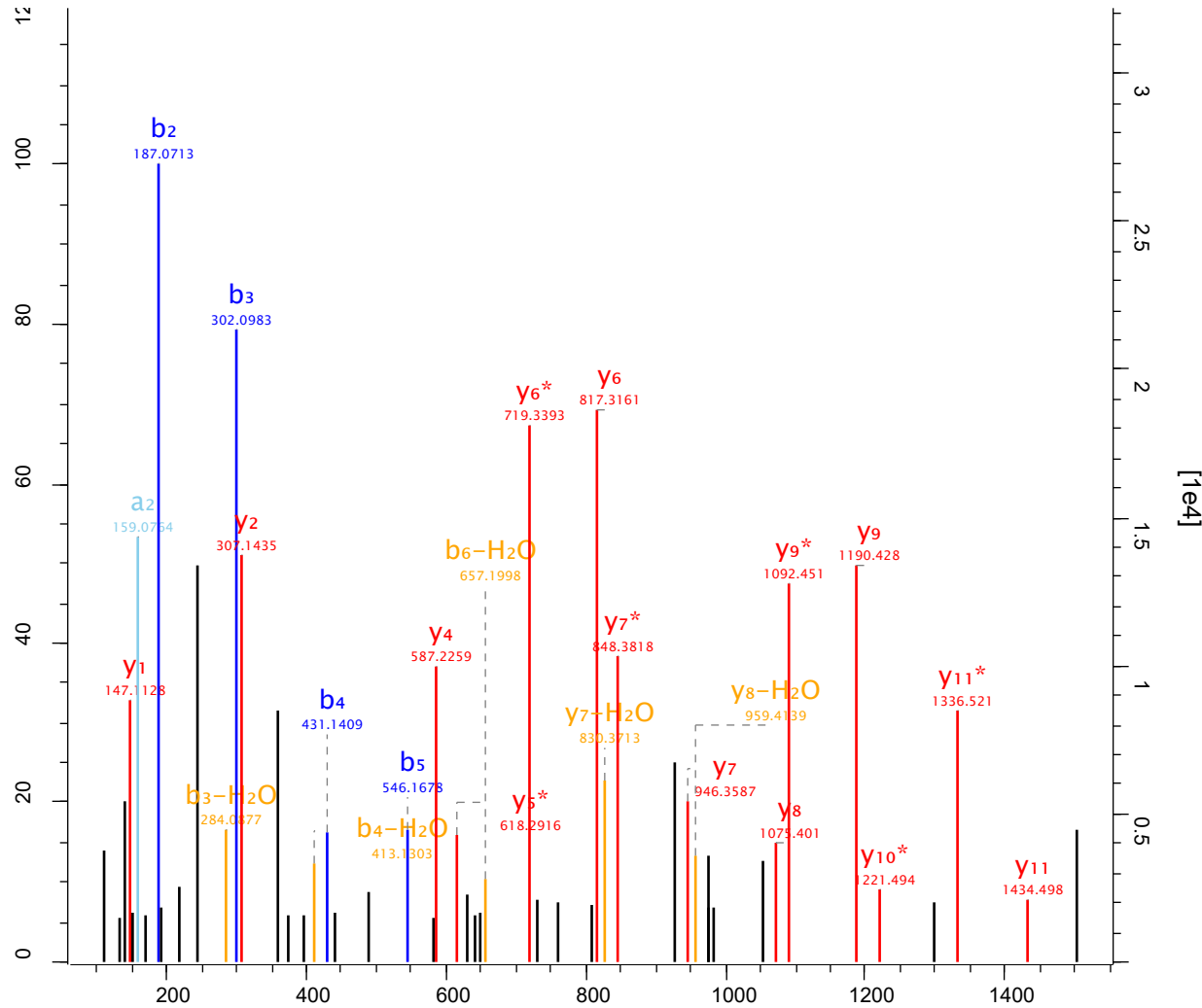
y12
y11
y10
y9
y8
y7
y6
y4

b4
b5
b6

Raw file Scan Method Score m/z  
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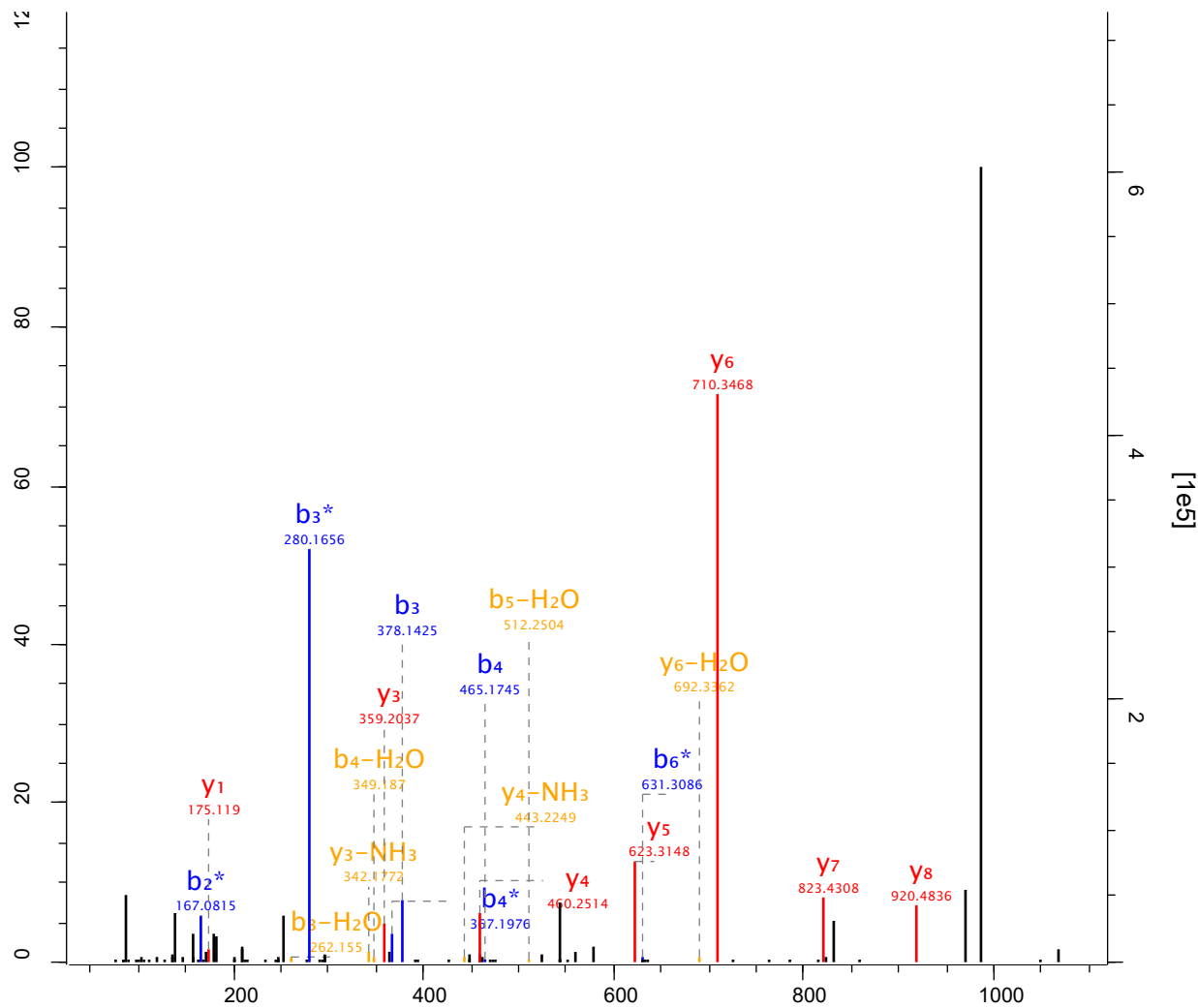
Raw file Scan Method Score m/z  
 sys\_05\_2 11792 FTMS; HCD 132.84 810.78



- G E D E D E E T E S L C K -

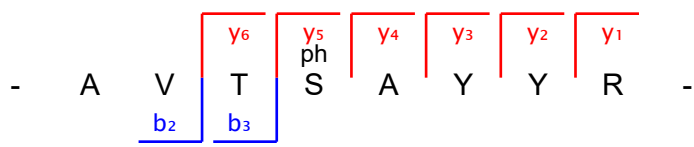
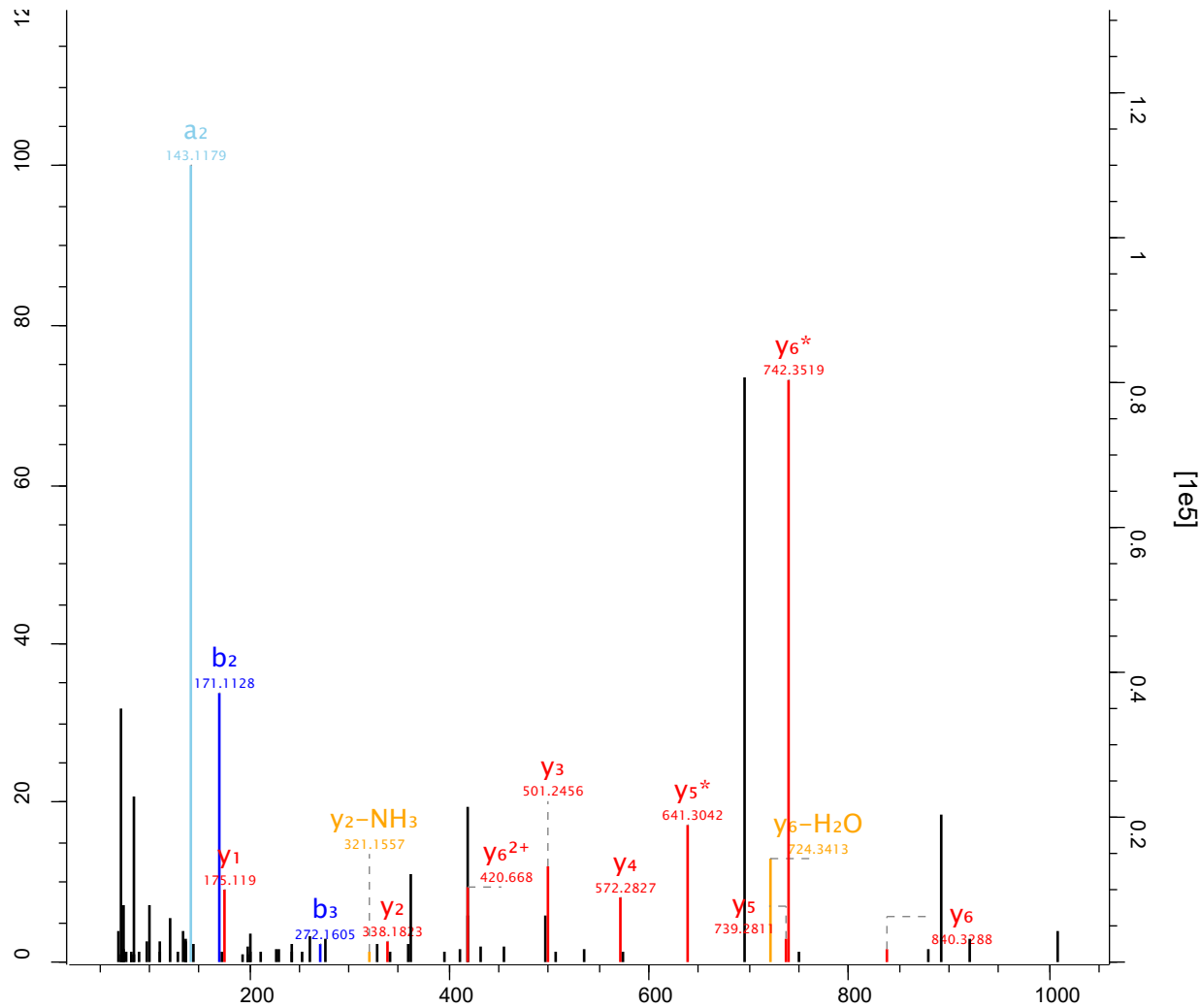
b<sub>2</sub>
b<sub>3</sub>
b<sub>4</sub>
b<sub>5</sub>
y<sub>11</sub>
y<sub>10</sub>\*
y<sub>9</sub>
y<sub>8</sub>
y<sub>7</sub>
y<sub>6</sub>
y<sub>5</sub>\*
y<sub>4</sub>  
ph
y<sub>2</sub>
y<sub>1</sub>

Raw file Scan Method Score m/z  
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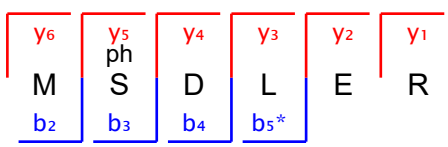
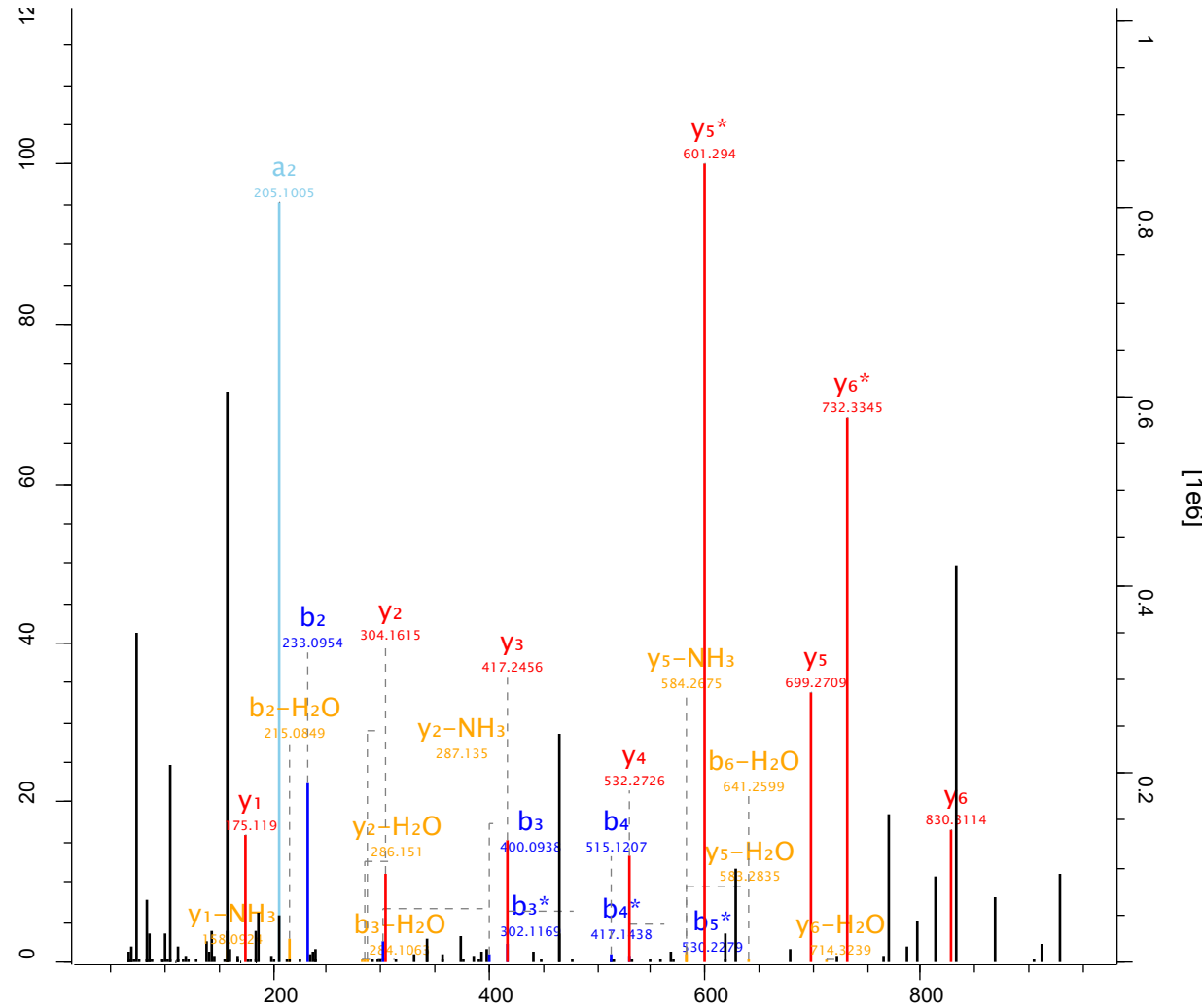


ph S y<sub>8</sub> y<sub>7</sub> y<sub>6</sub> y<sub>5</sub> y<sub>4</sub> y<sub>3</sub> y<sub>1</sub>  
 - S P I S Y T P S R -  
b<sub>2</sub>\* b<sub>3</sub> b<sub>4</sub> b<sub>6</sub>\*

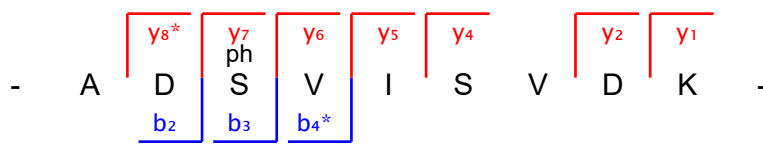
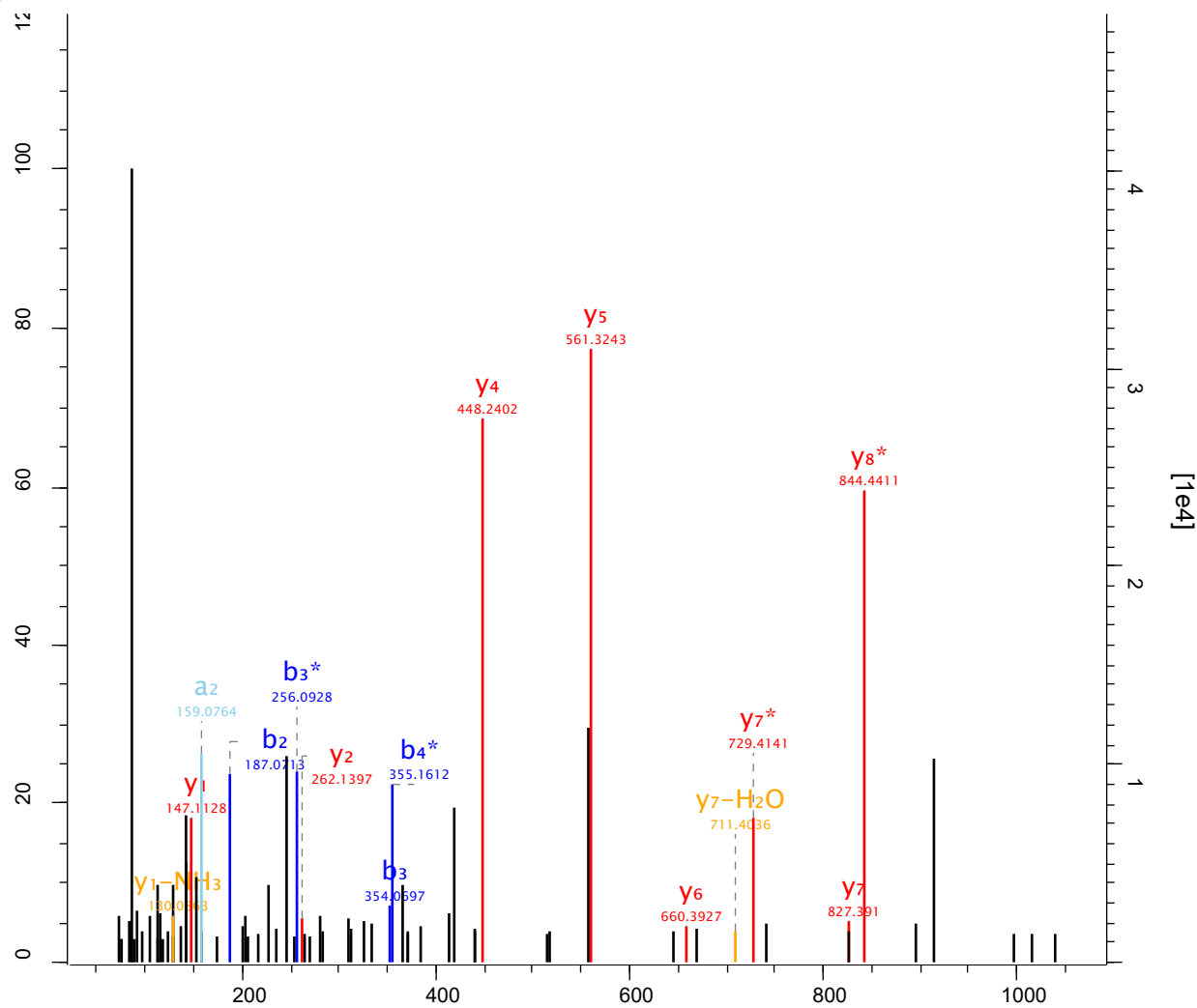
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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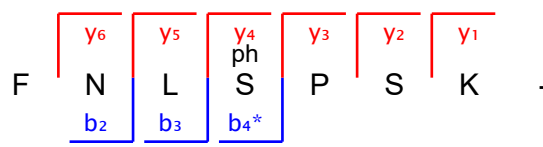
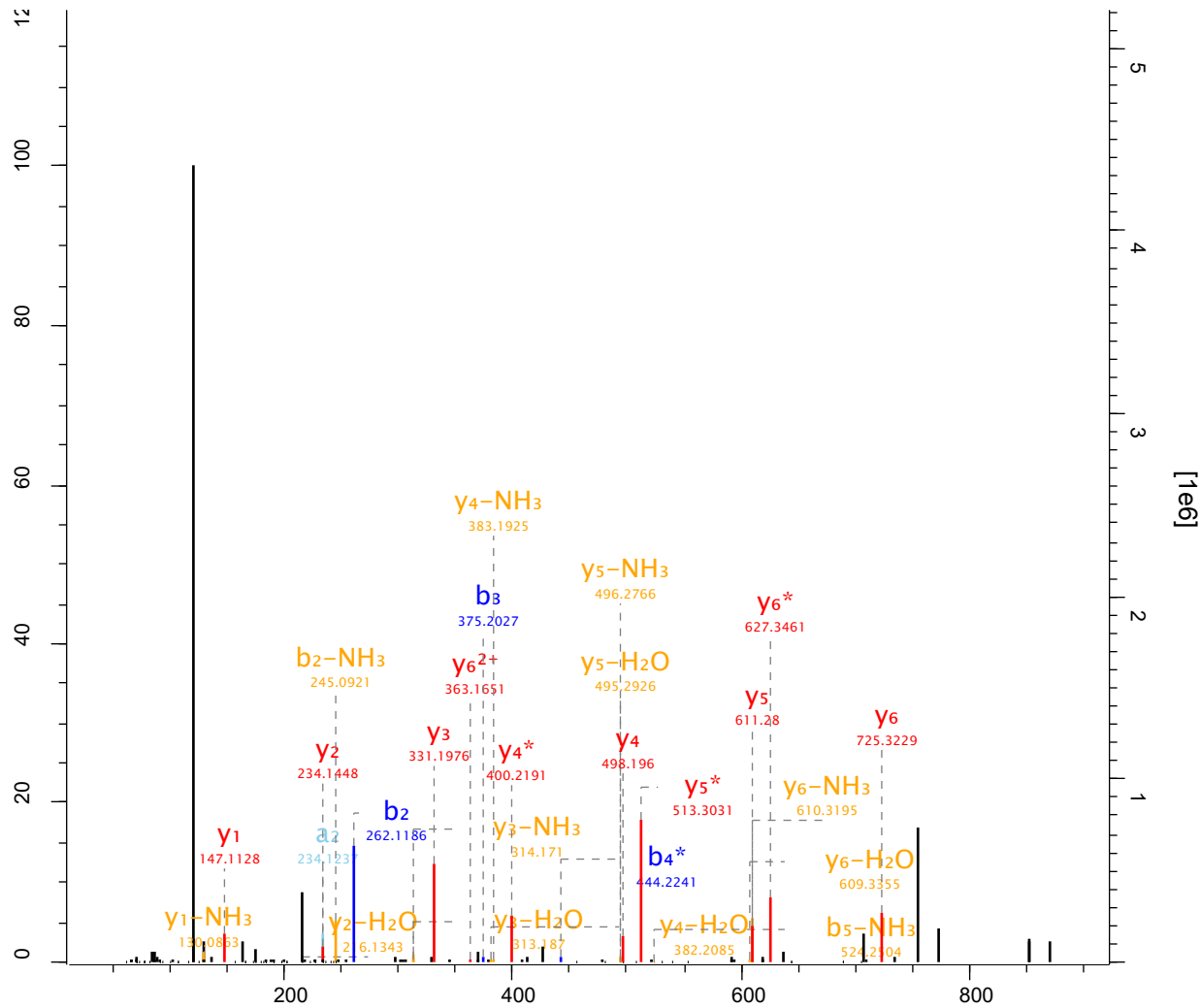


Raw file Scan Method Score m/z  
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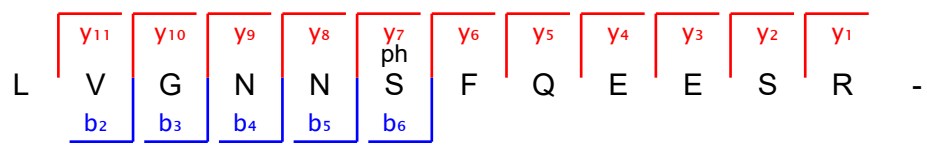
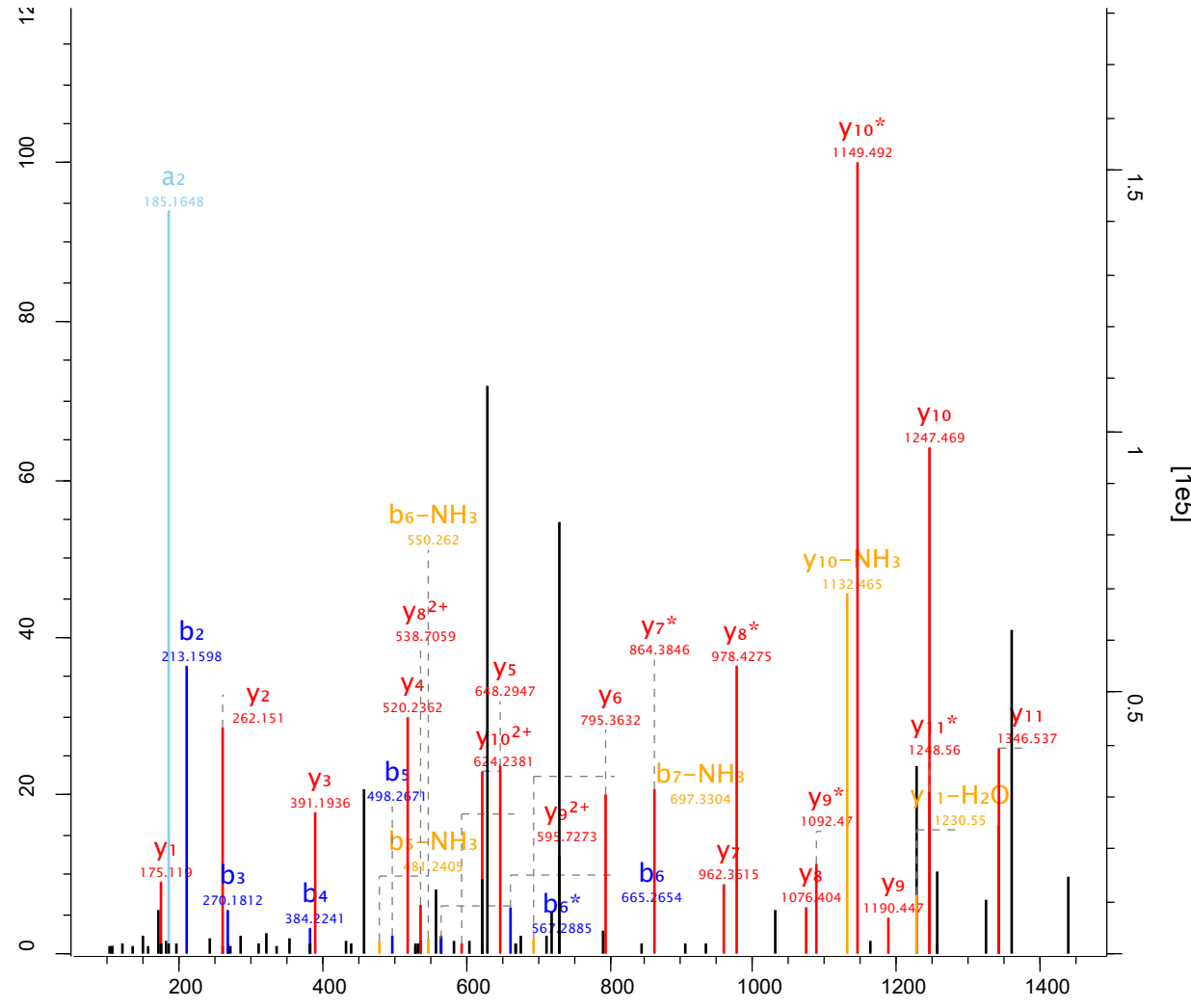




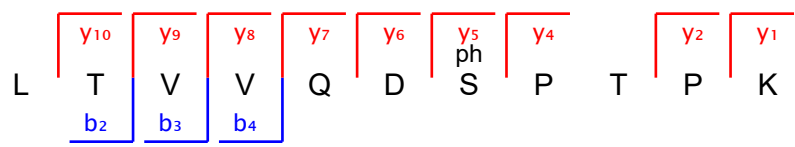
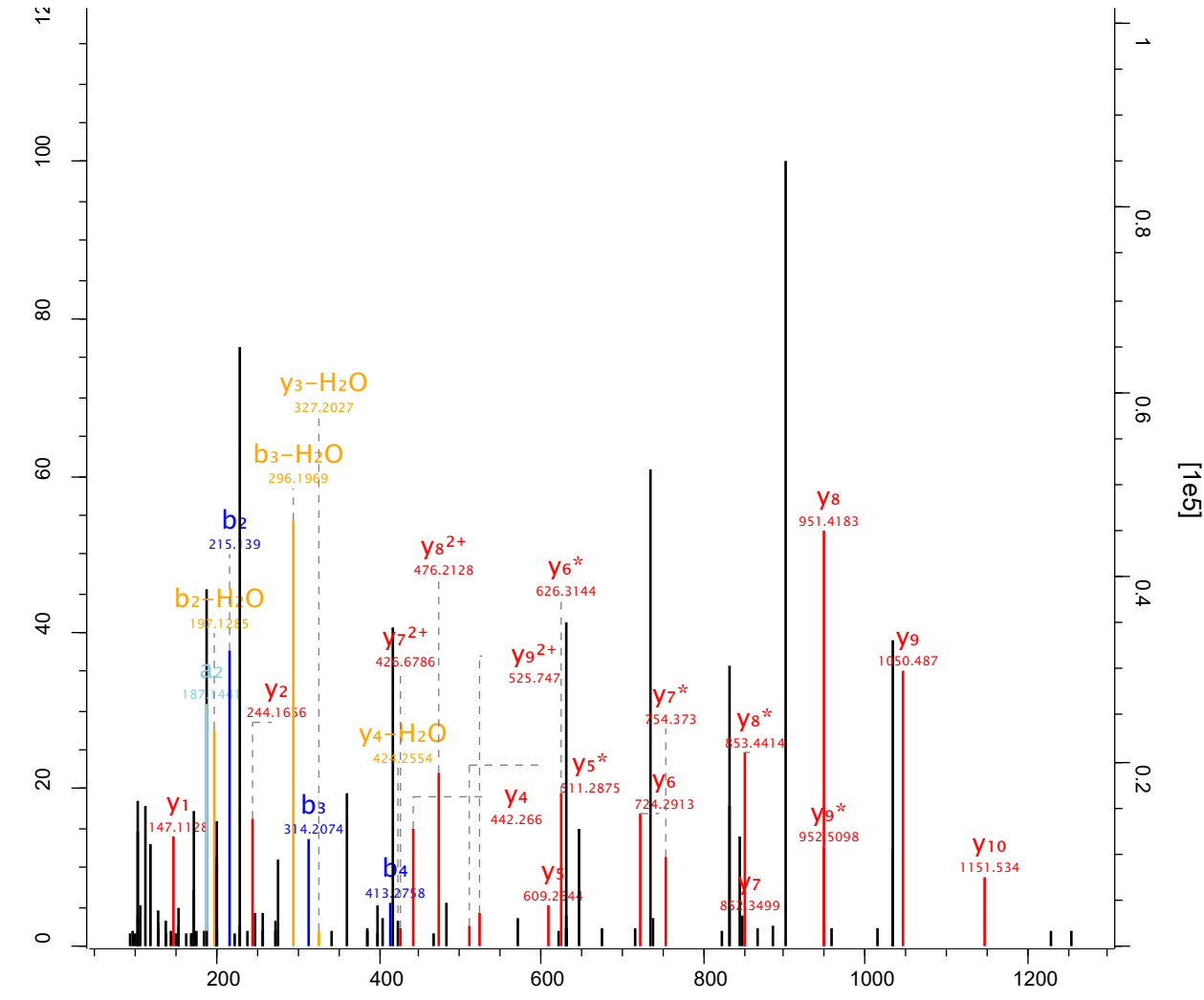
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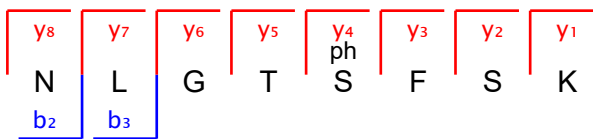
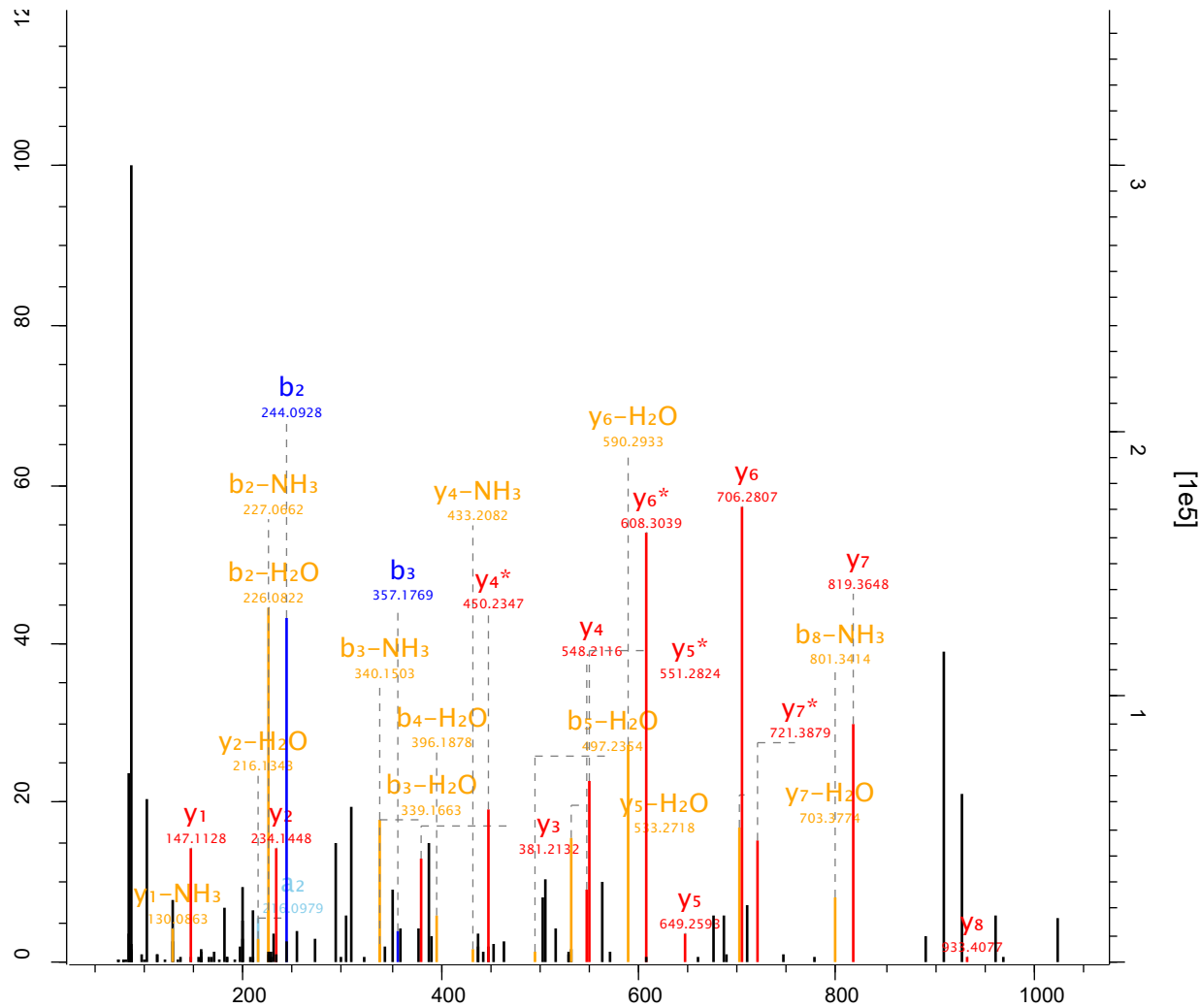


Raw file Scan Method Score m/z  
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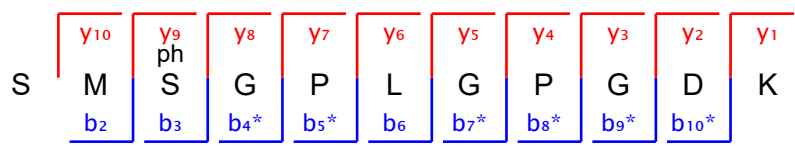
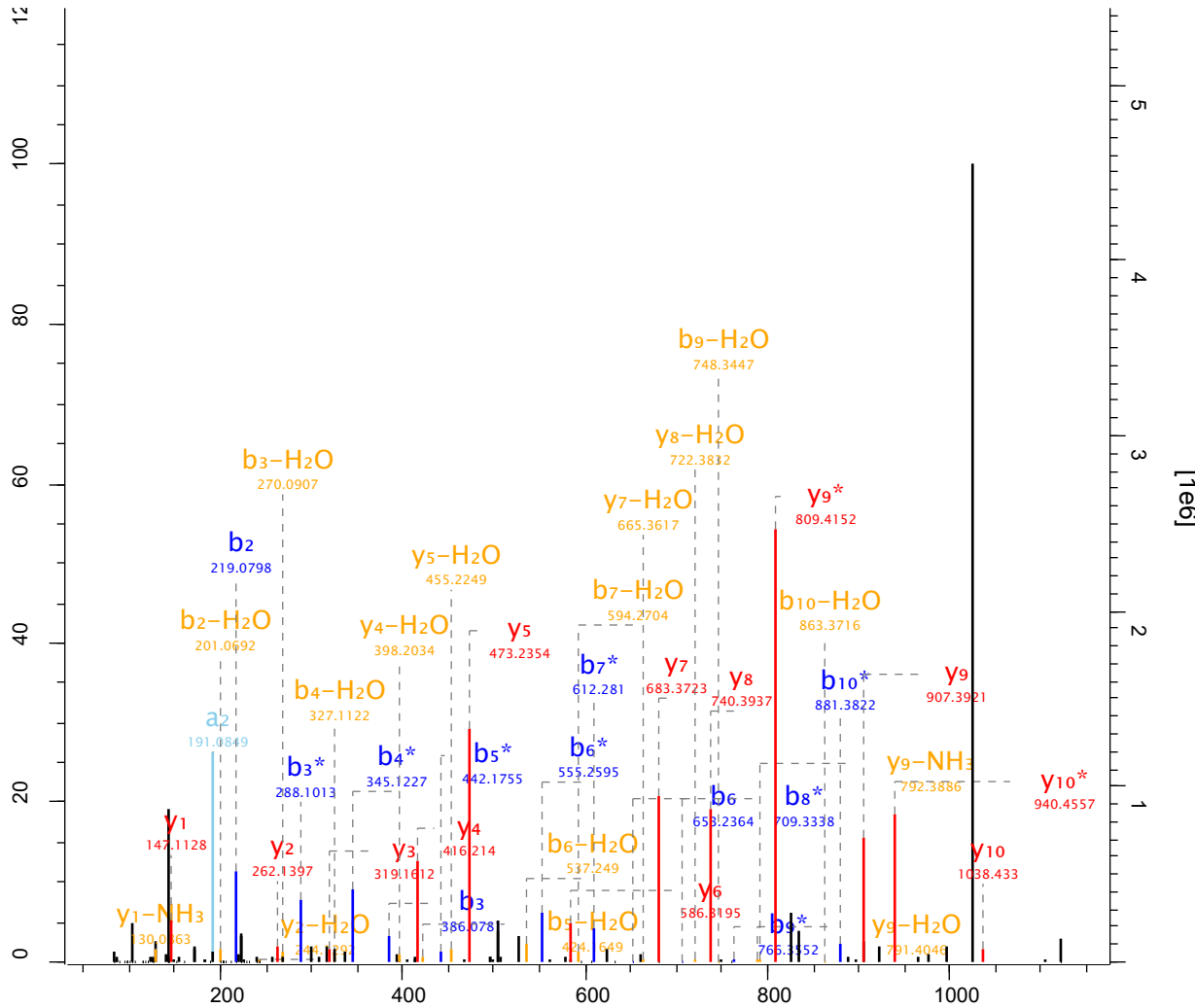




Raw file Scan Method Score m/z  
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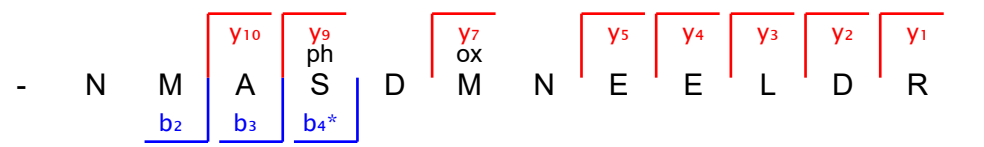
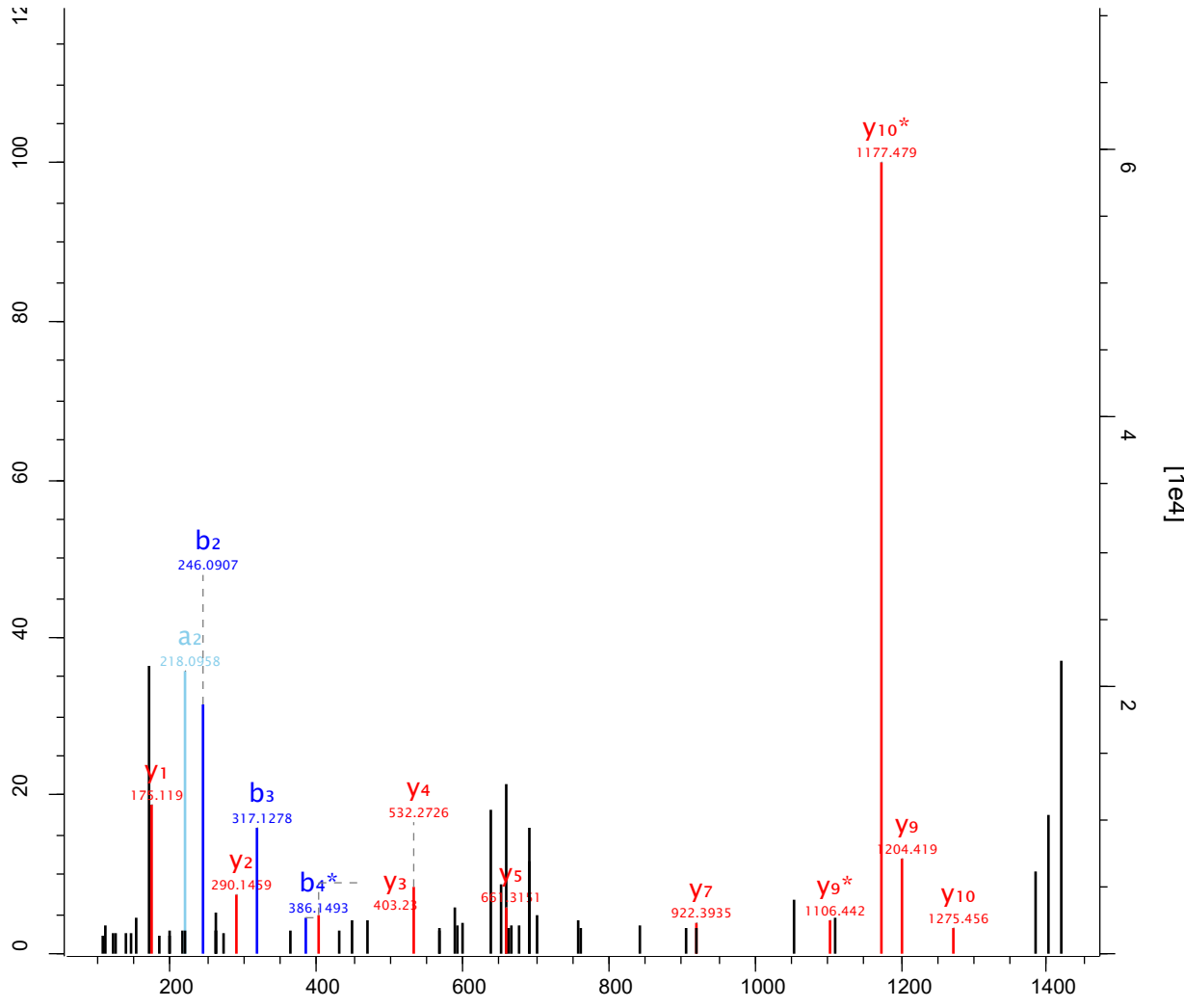


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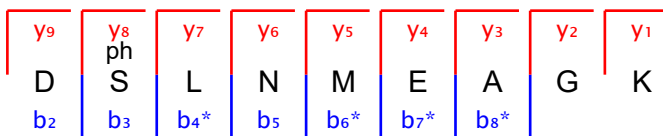
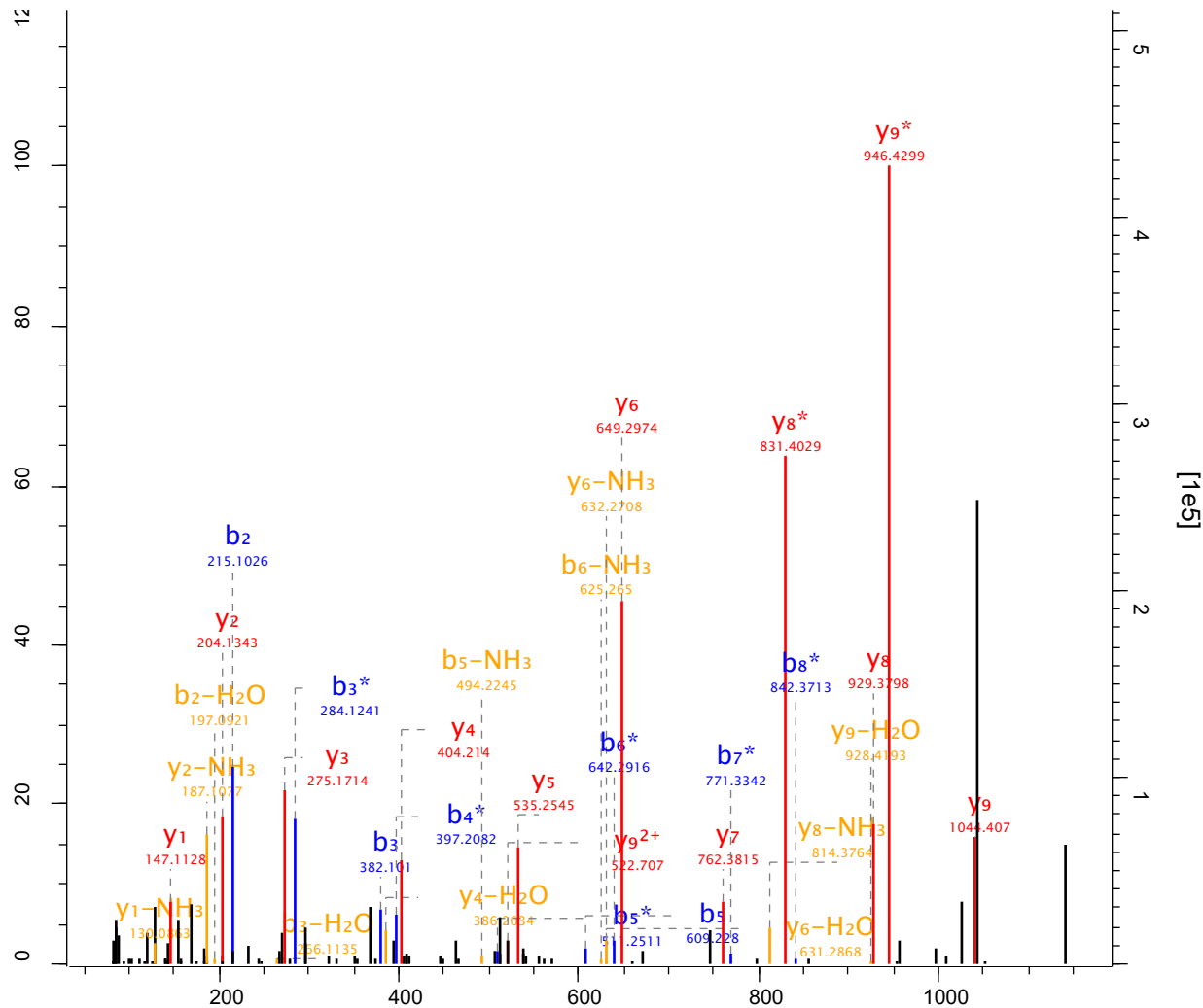


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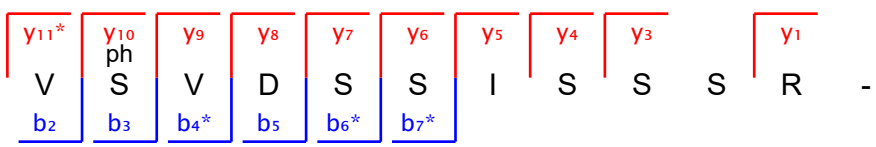
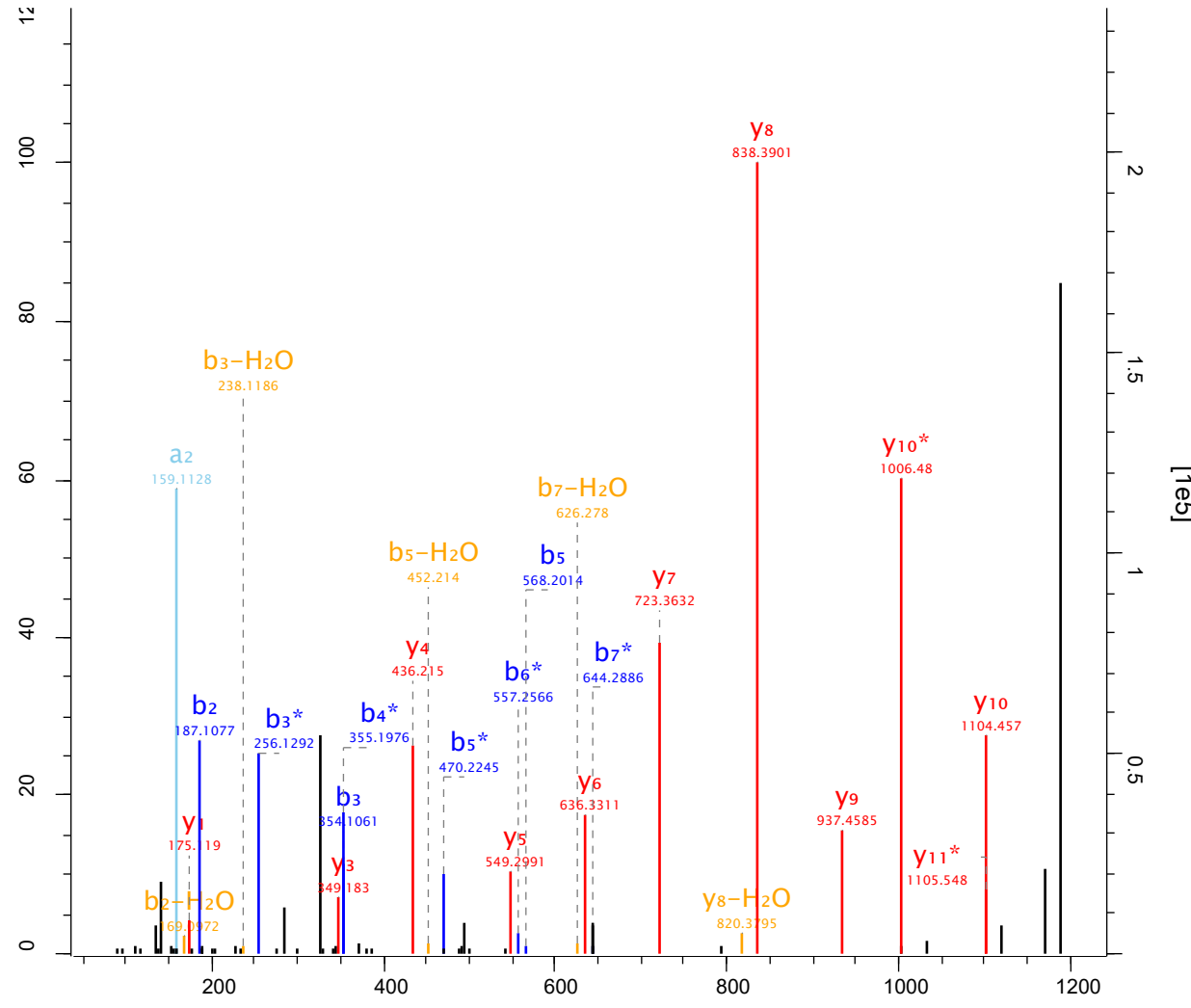




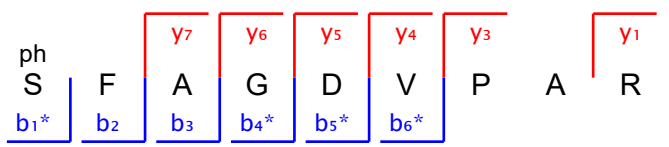
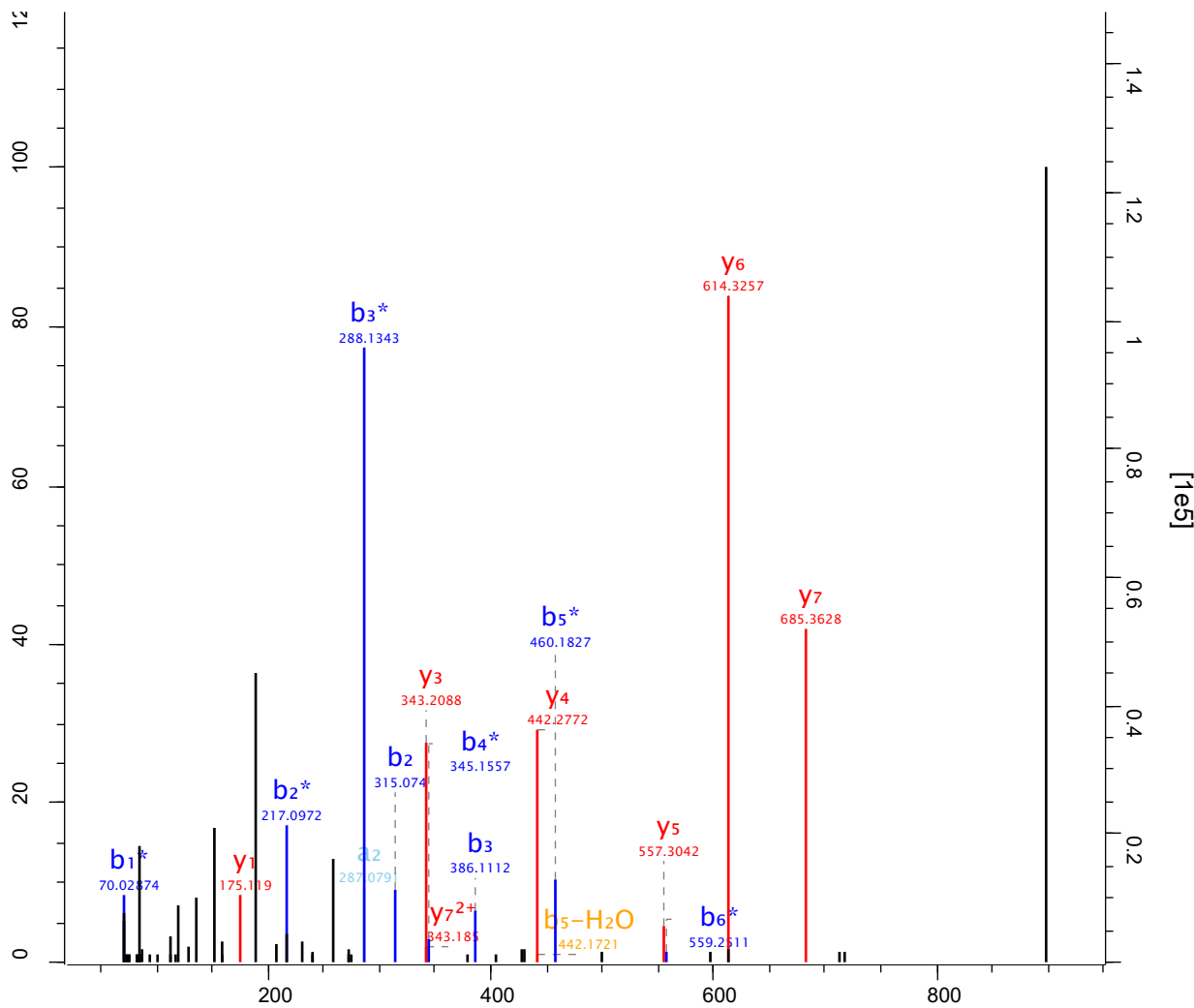
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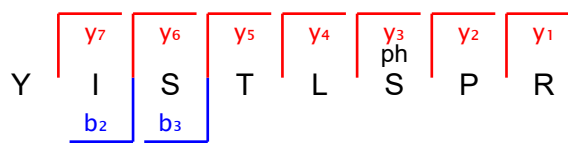
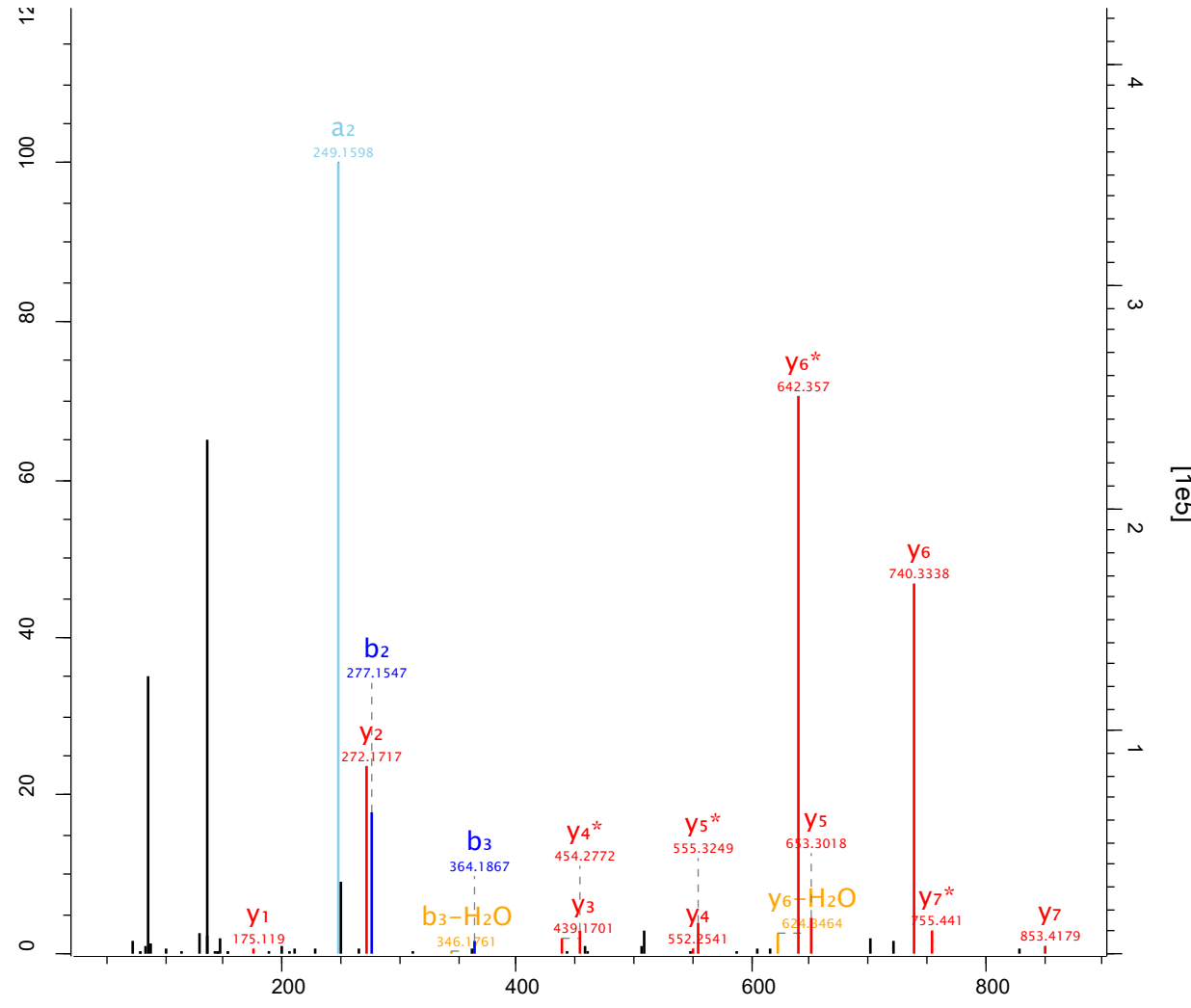
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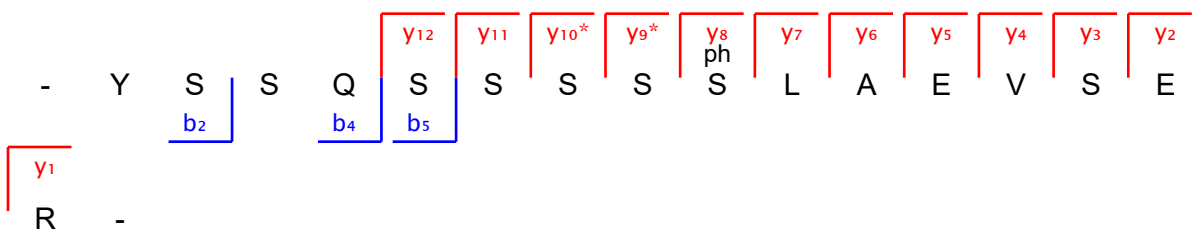
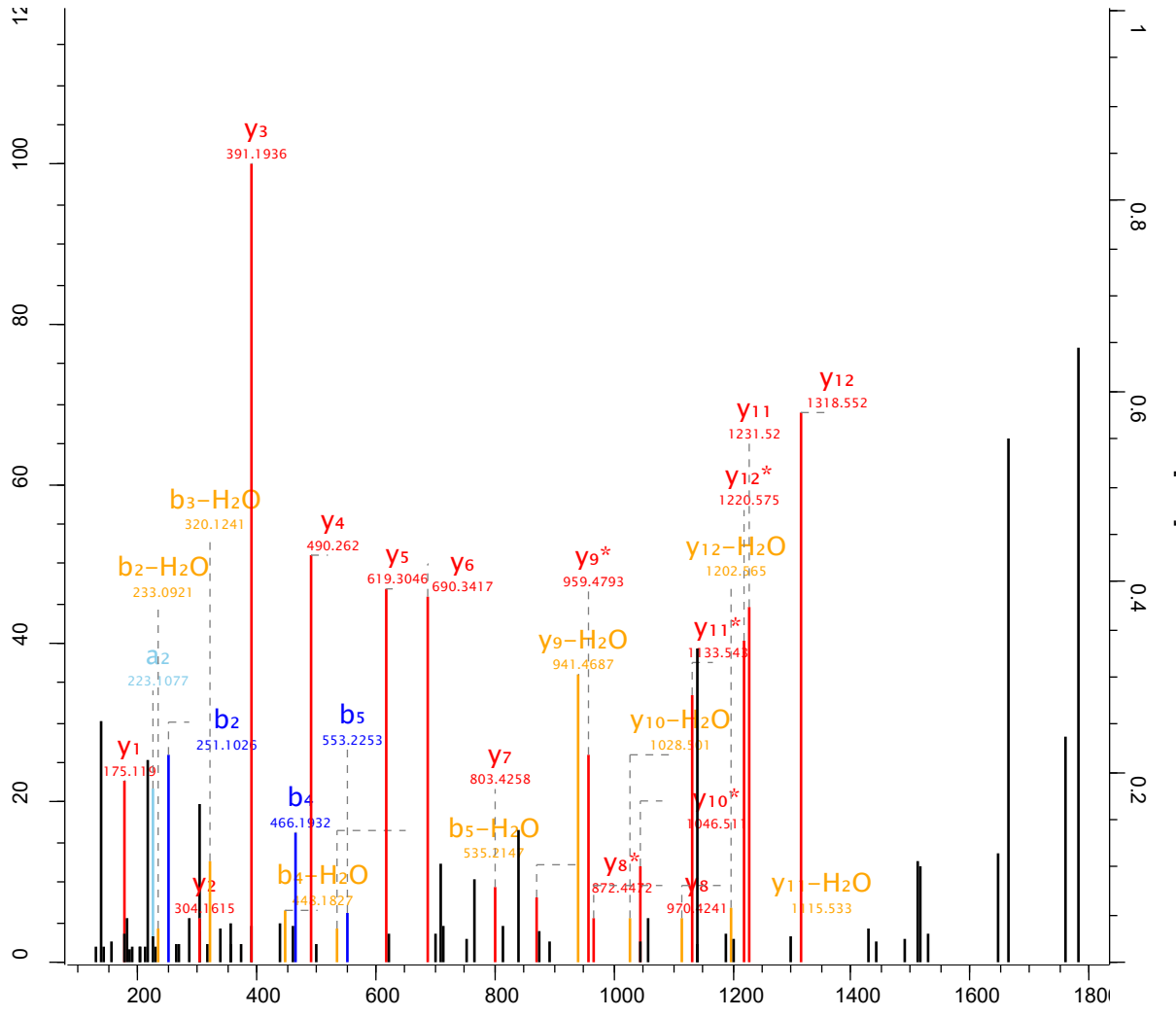
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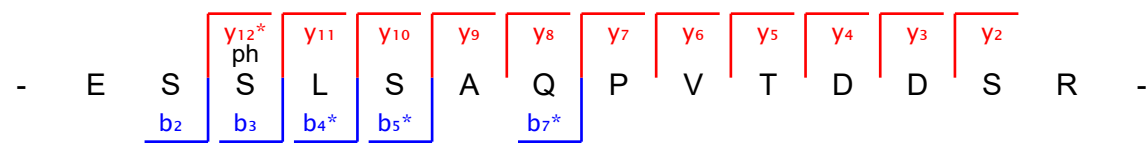
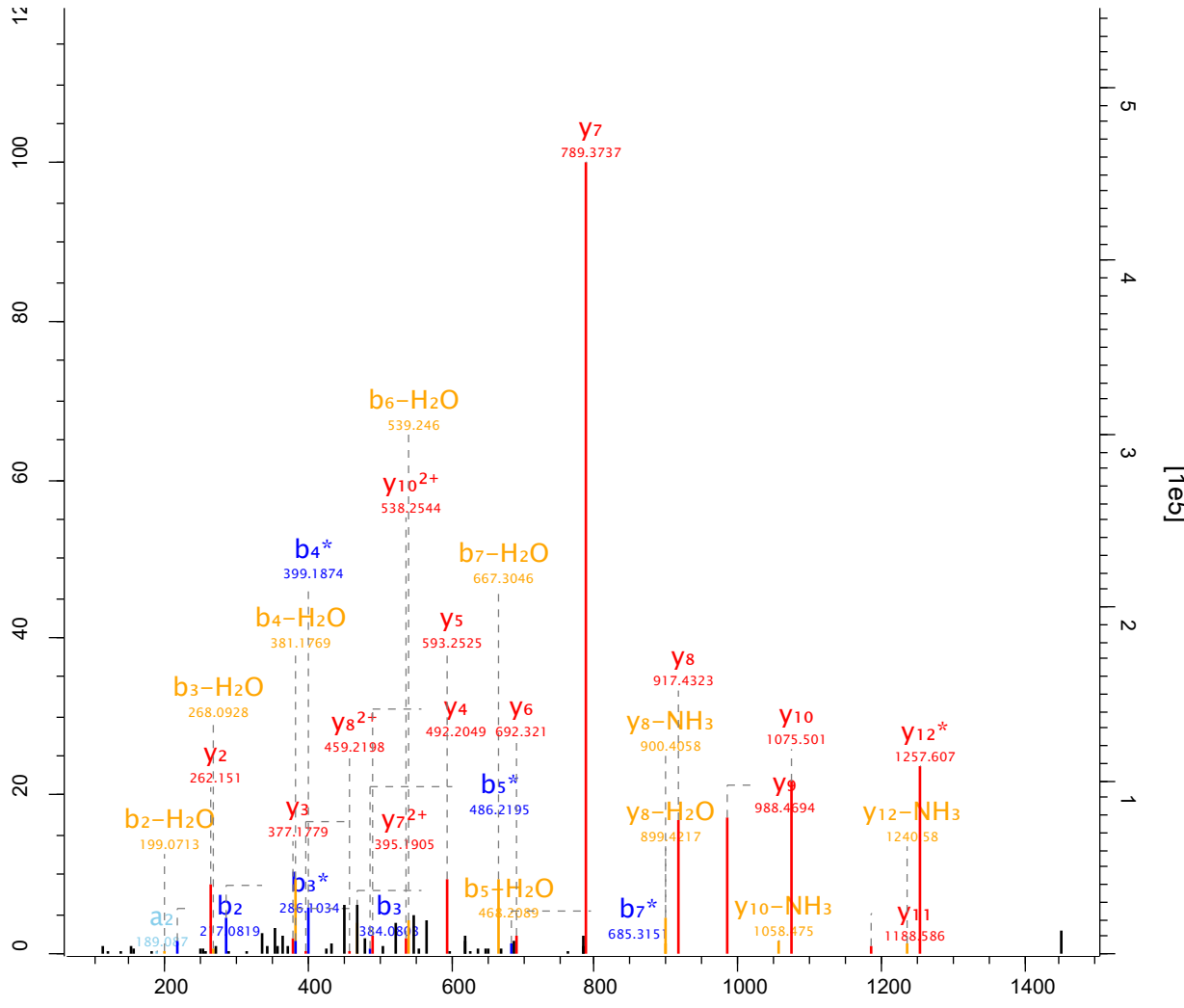
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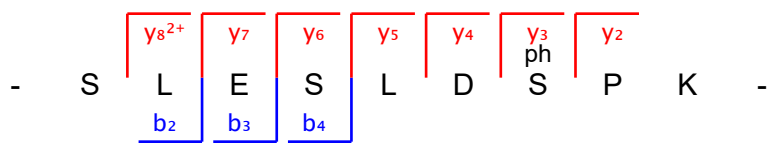
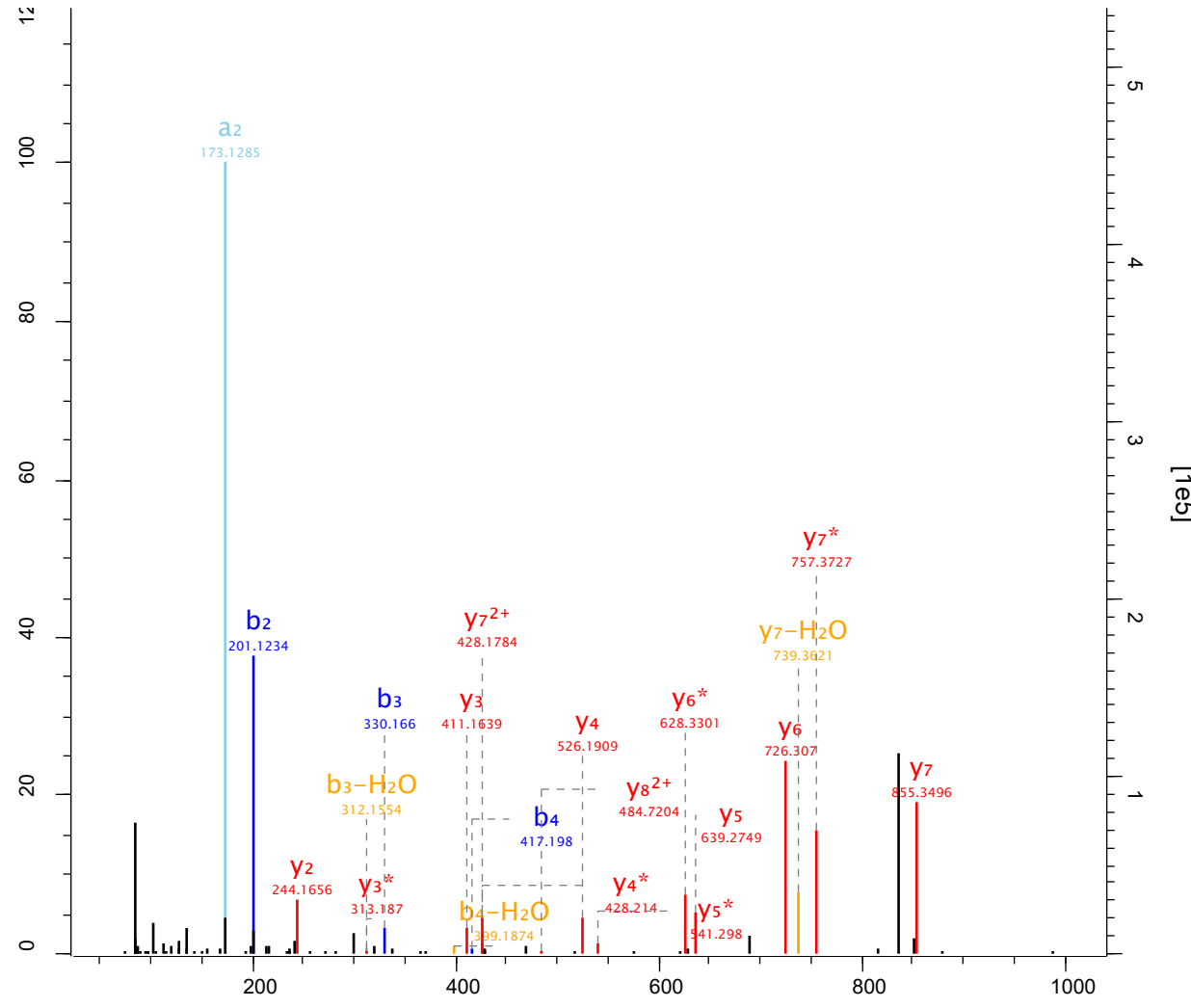
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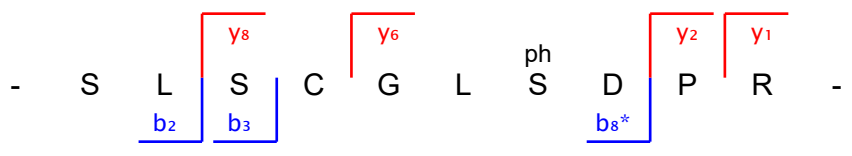
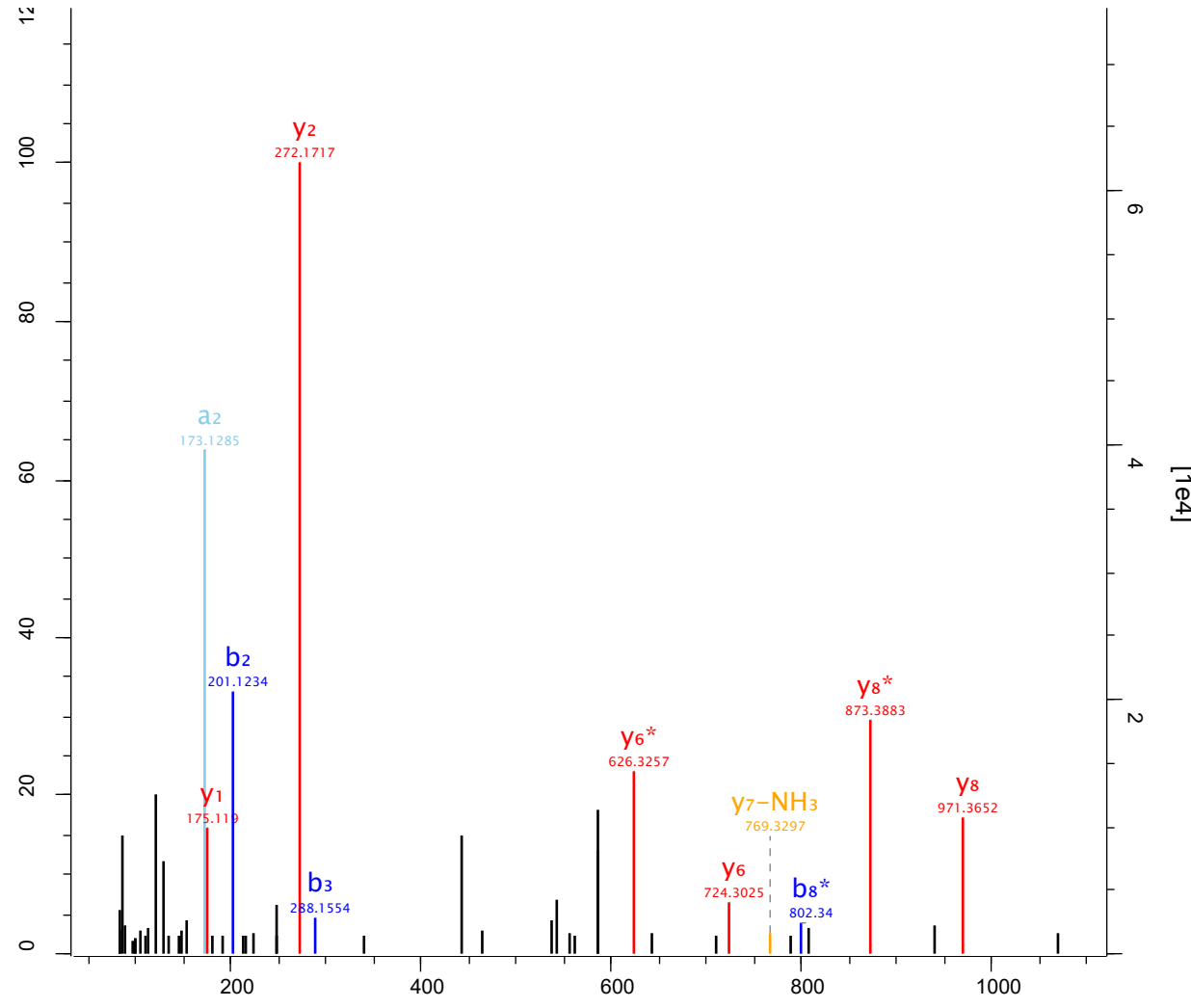
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Raw file Scan Method Score m/z  
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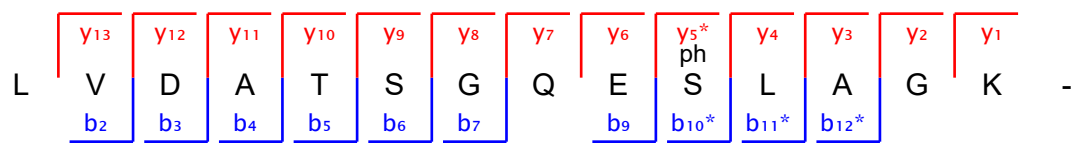
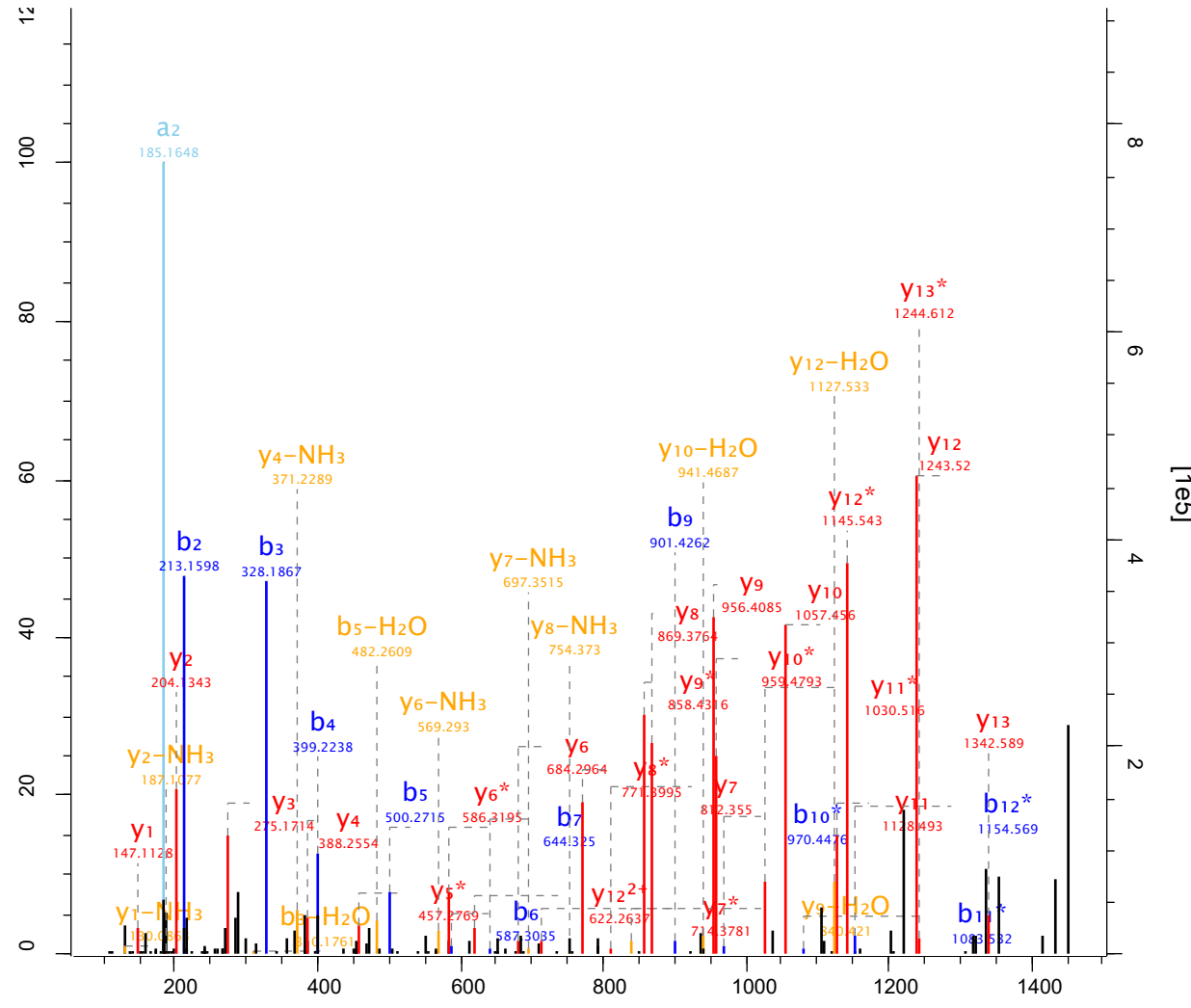


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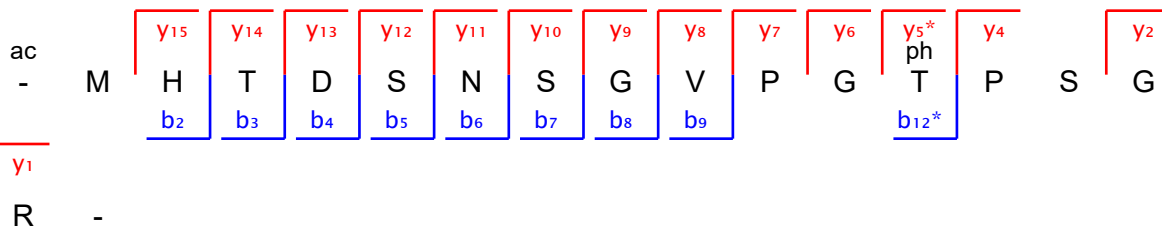
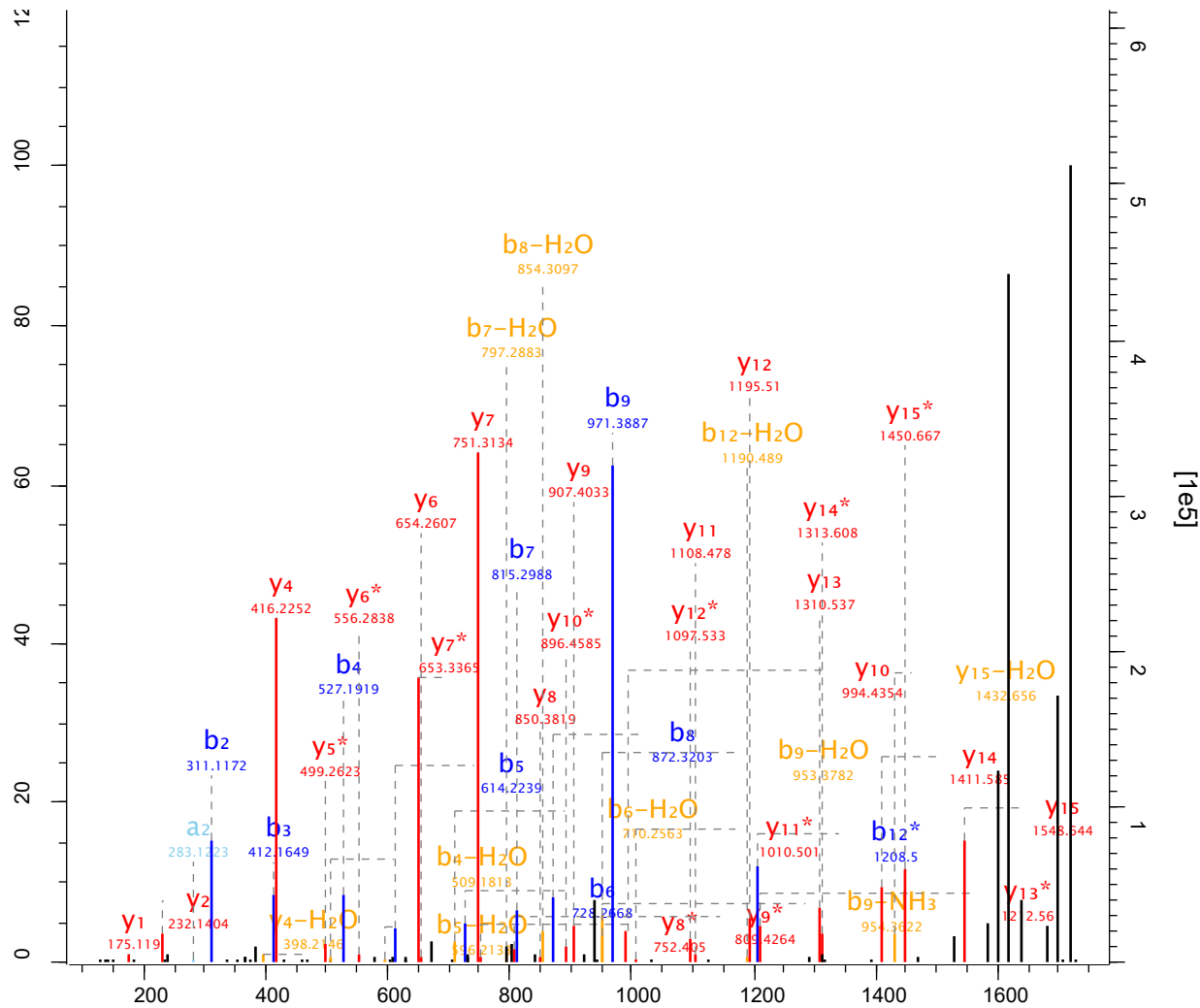




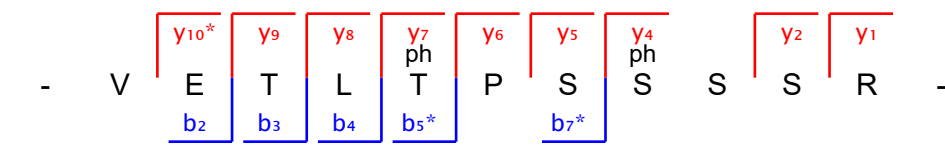
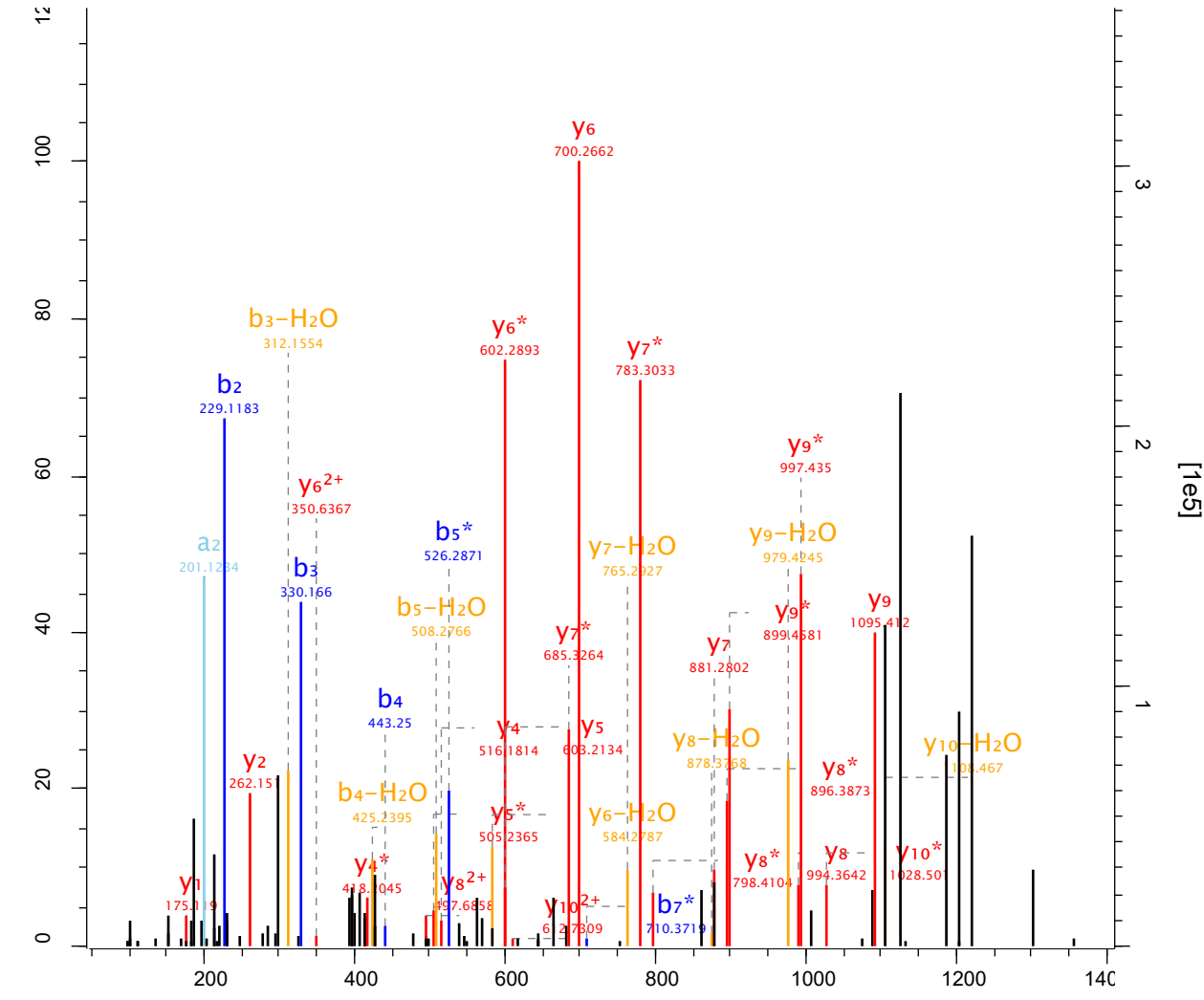
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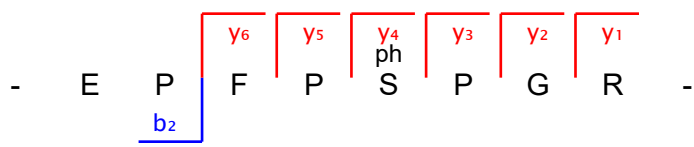
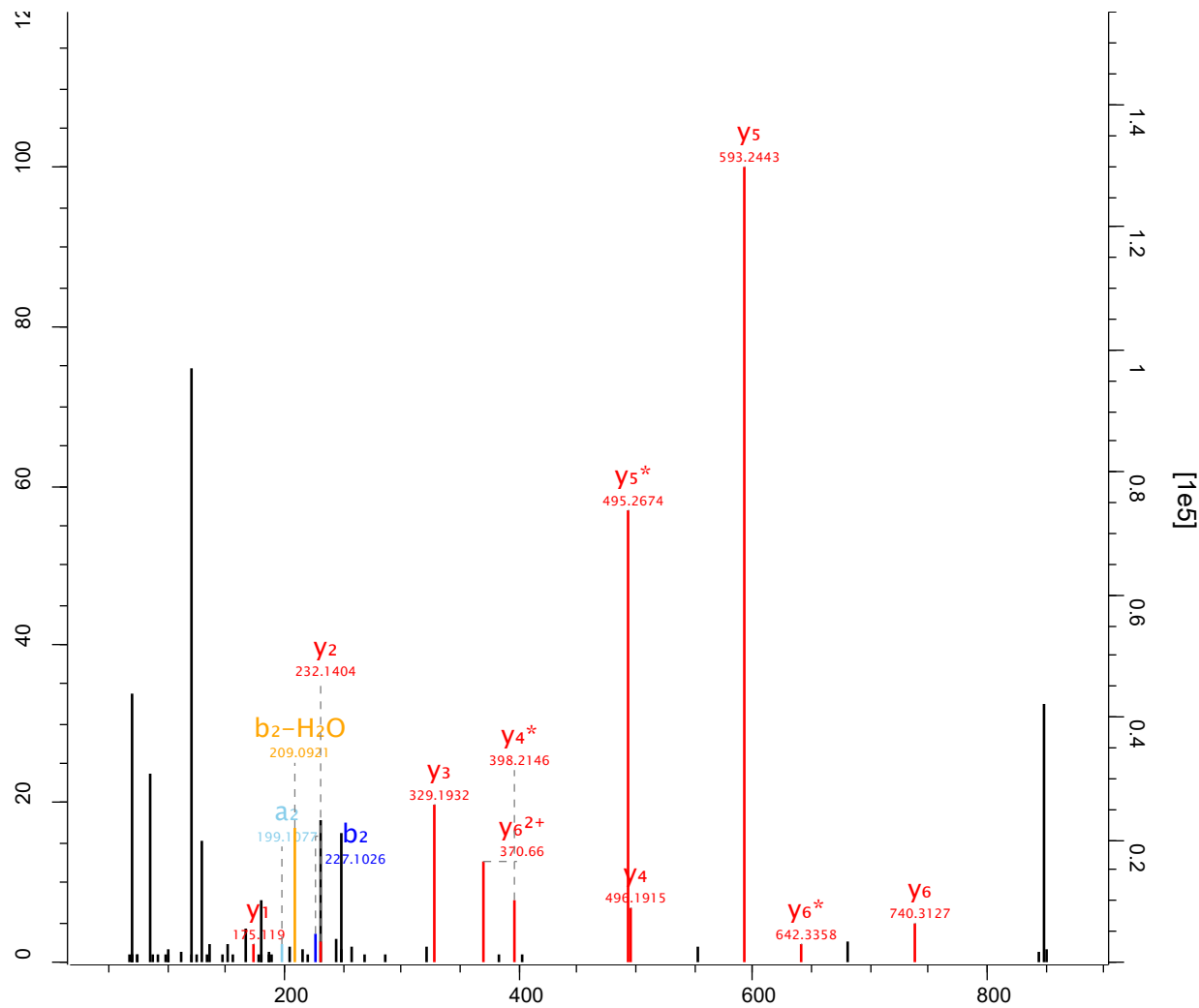
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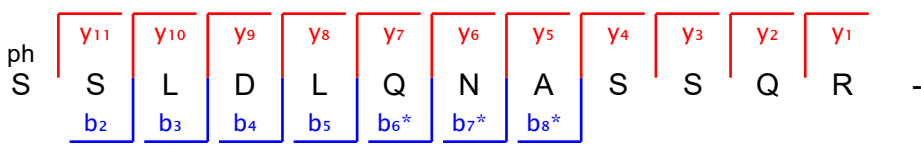
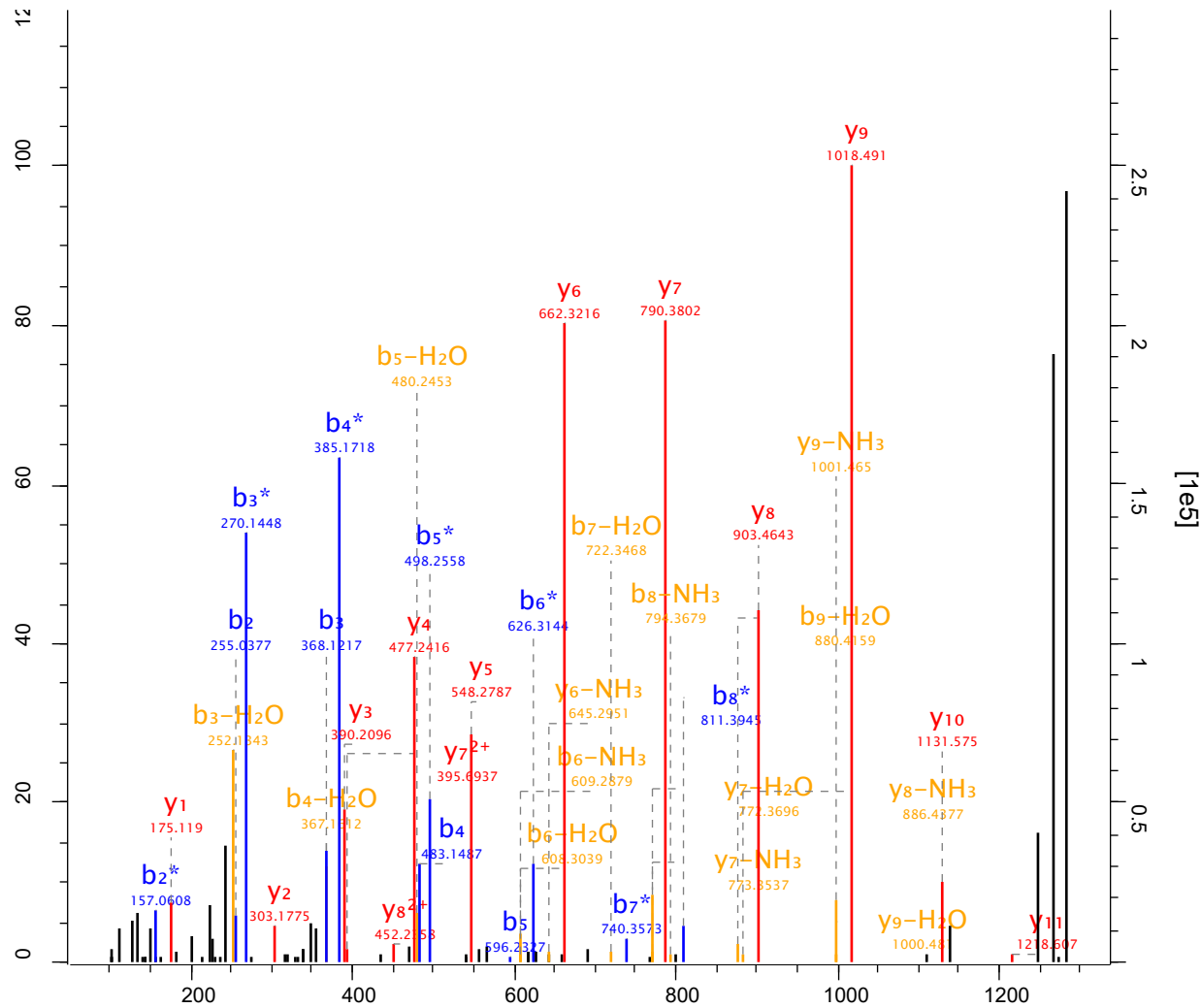
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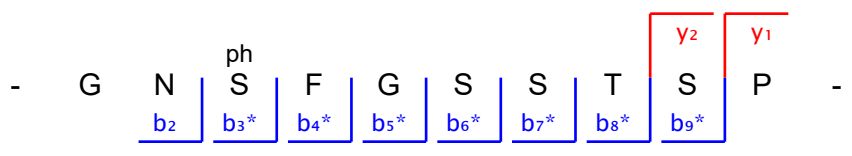
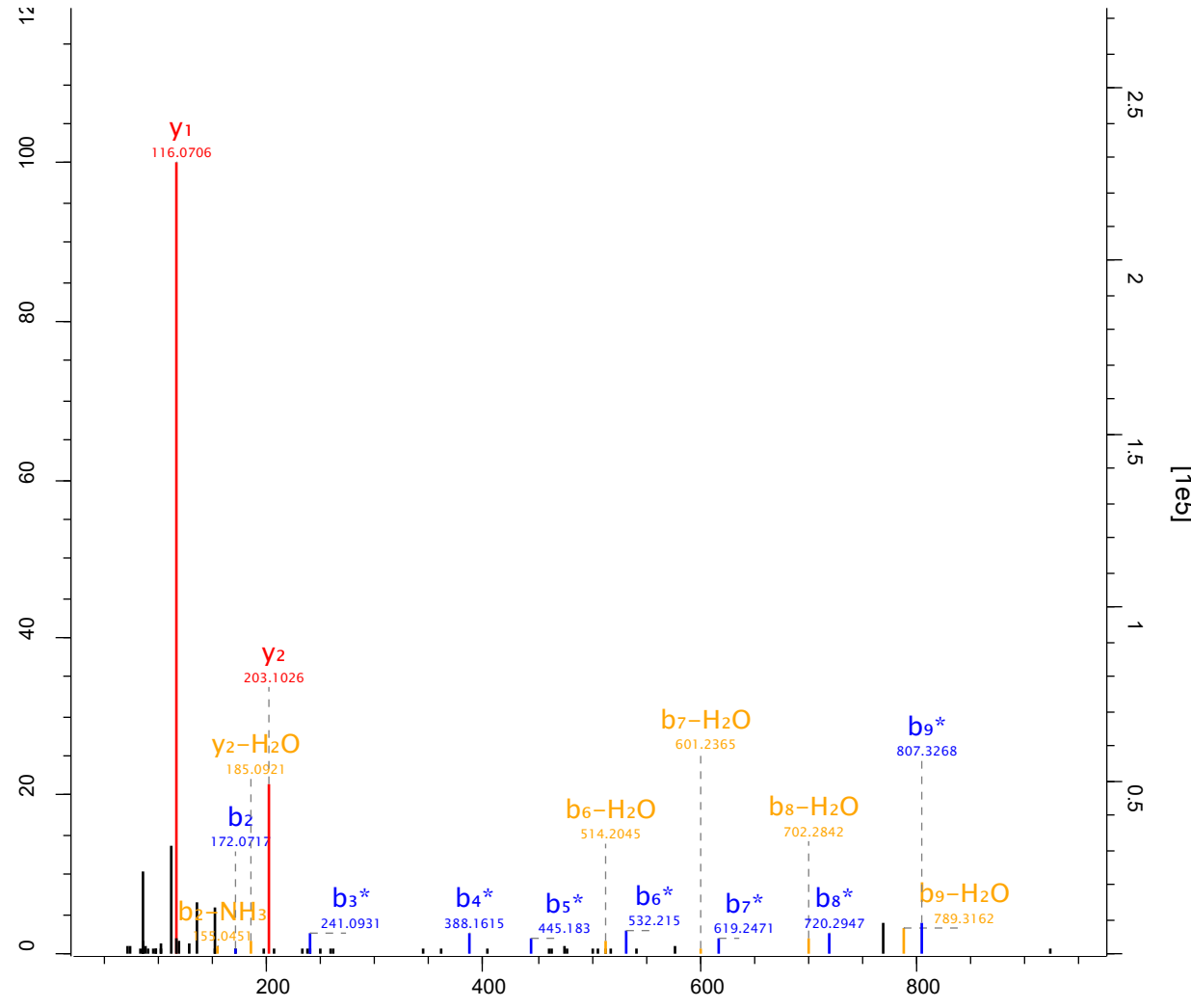
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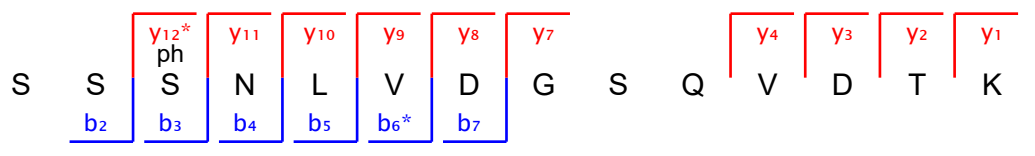
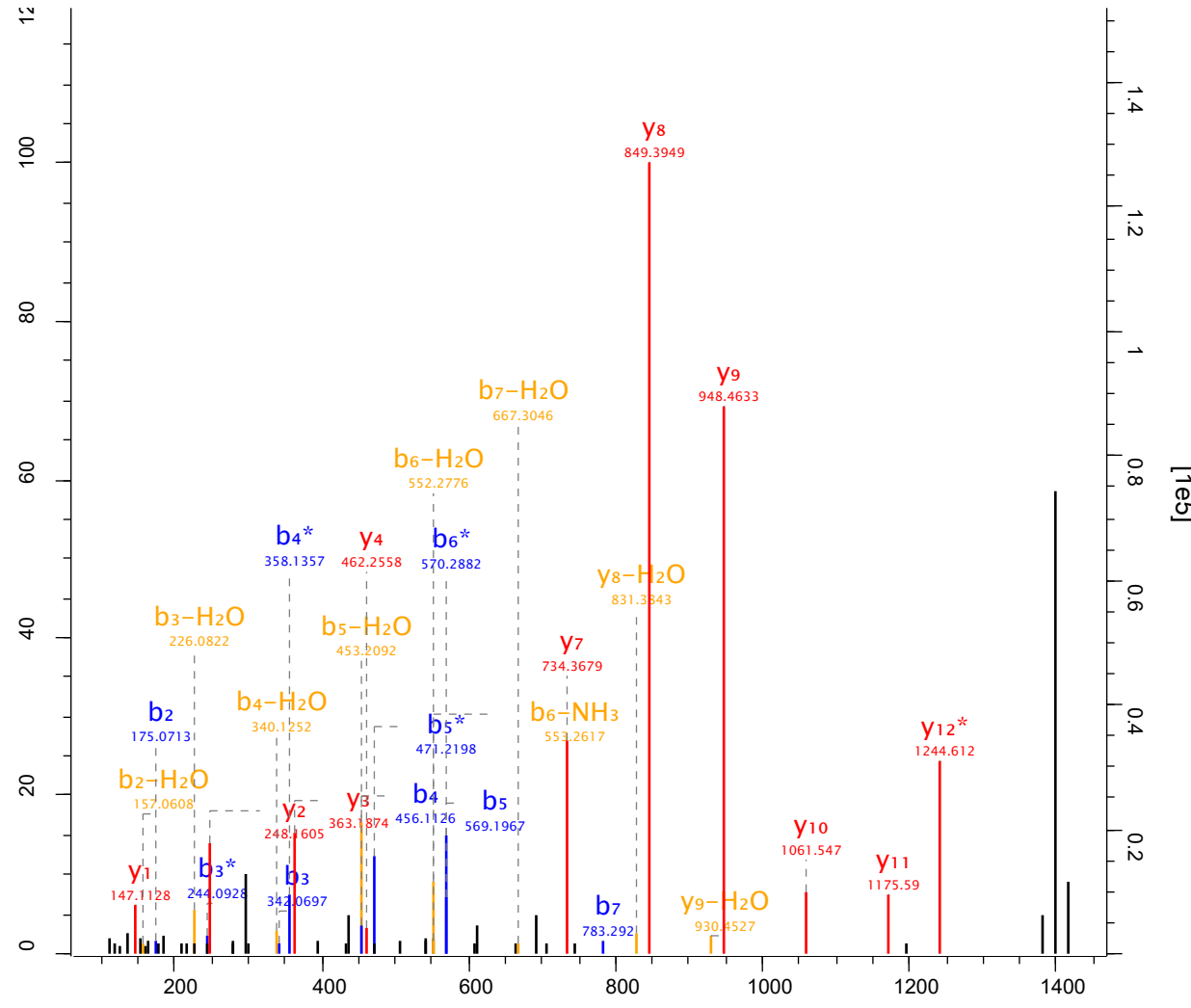
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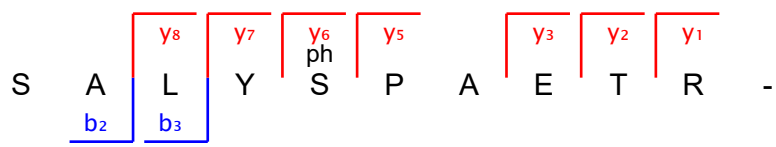
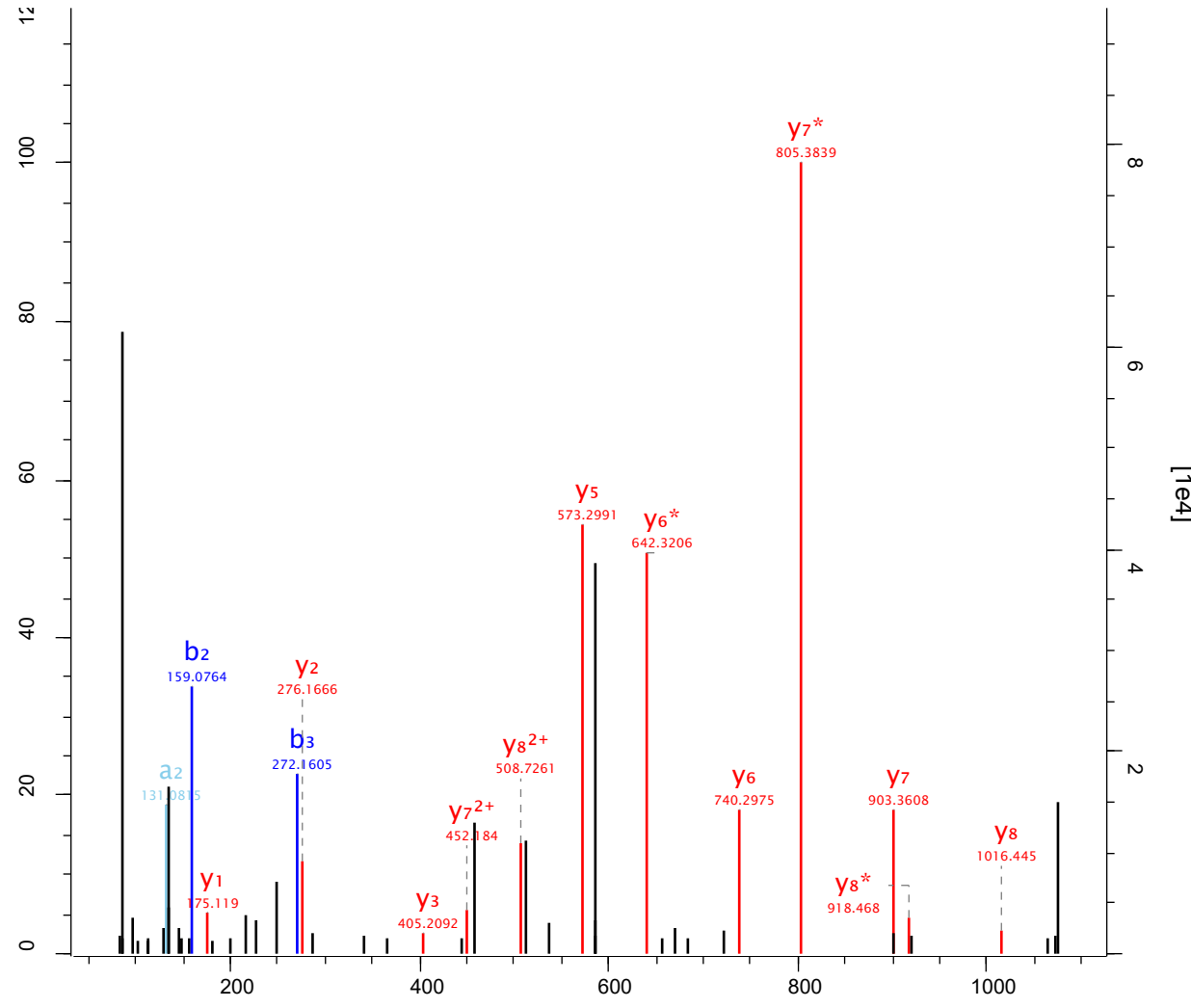
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Raw file Scan Method Score m/z  
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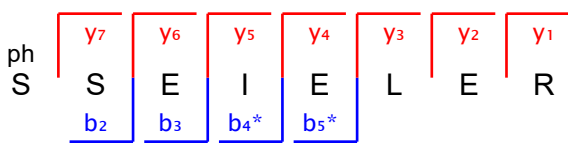
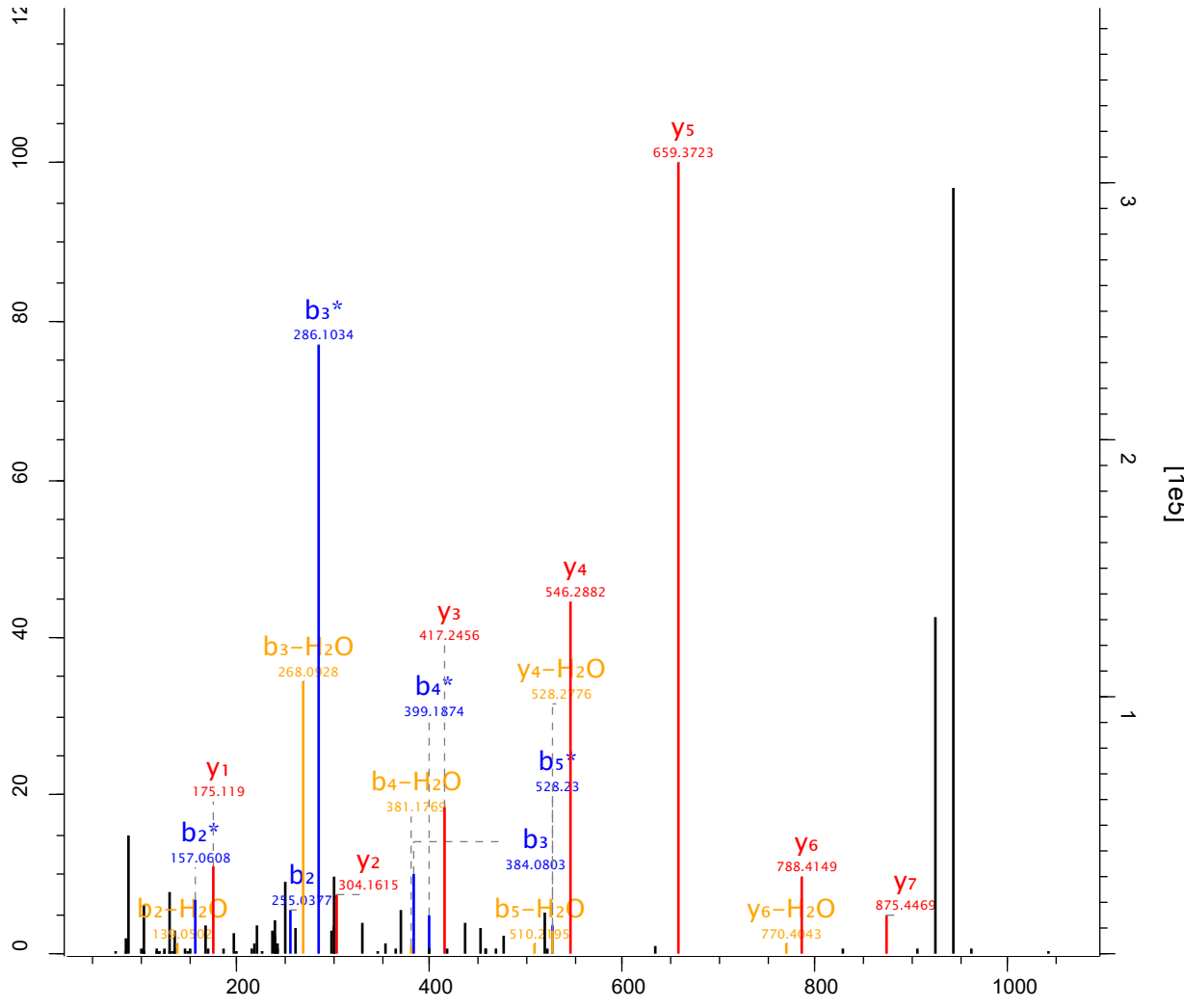


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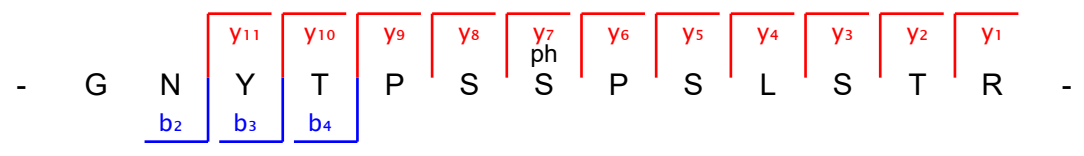
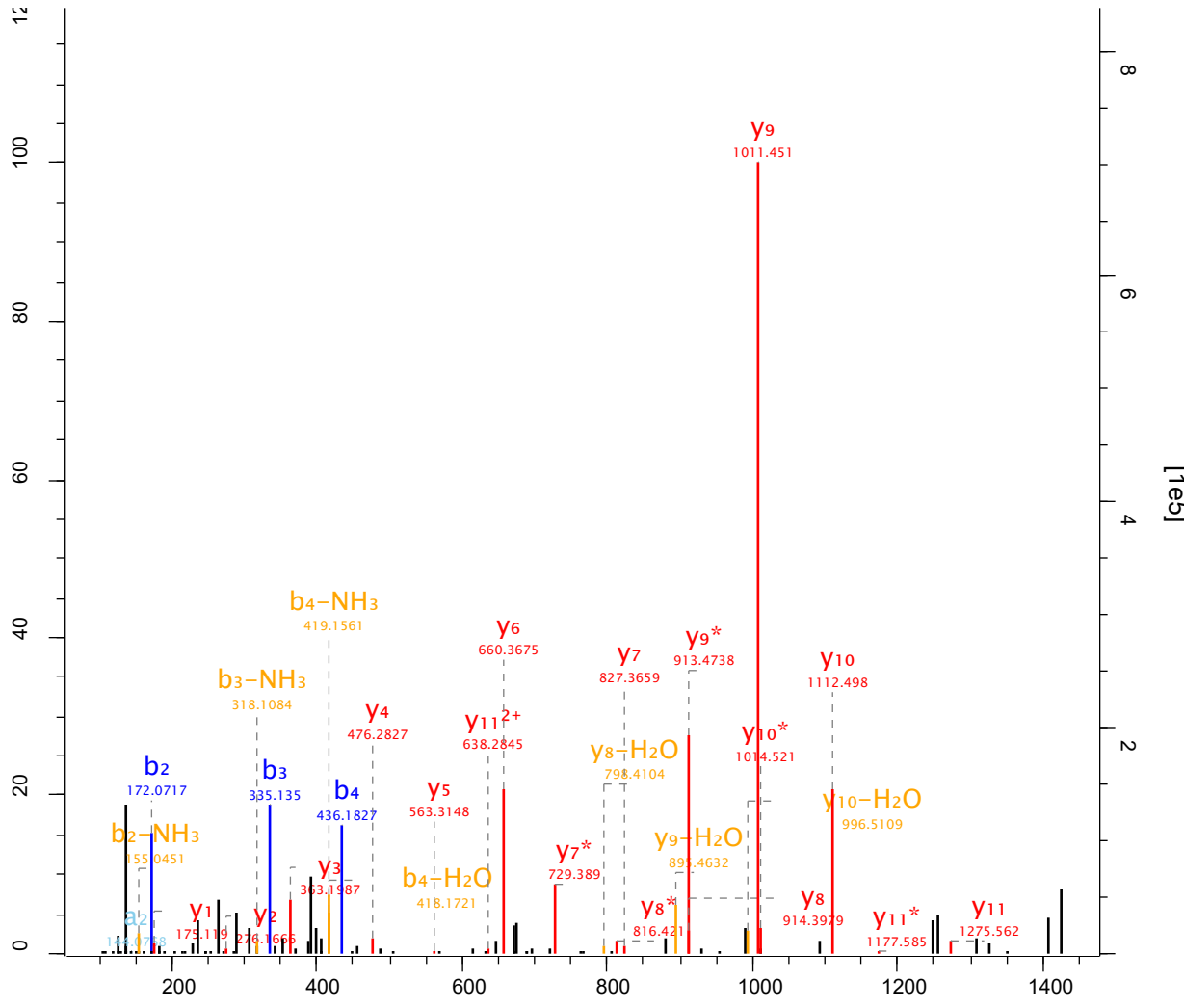




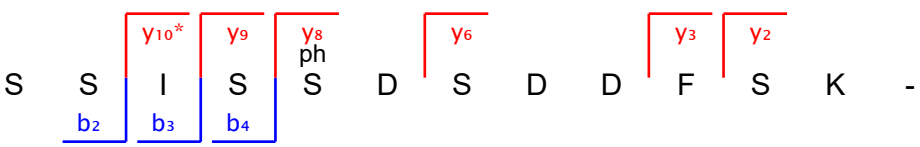
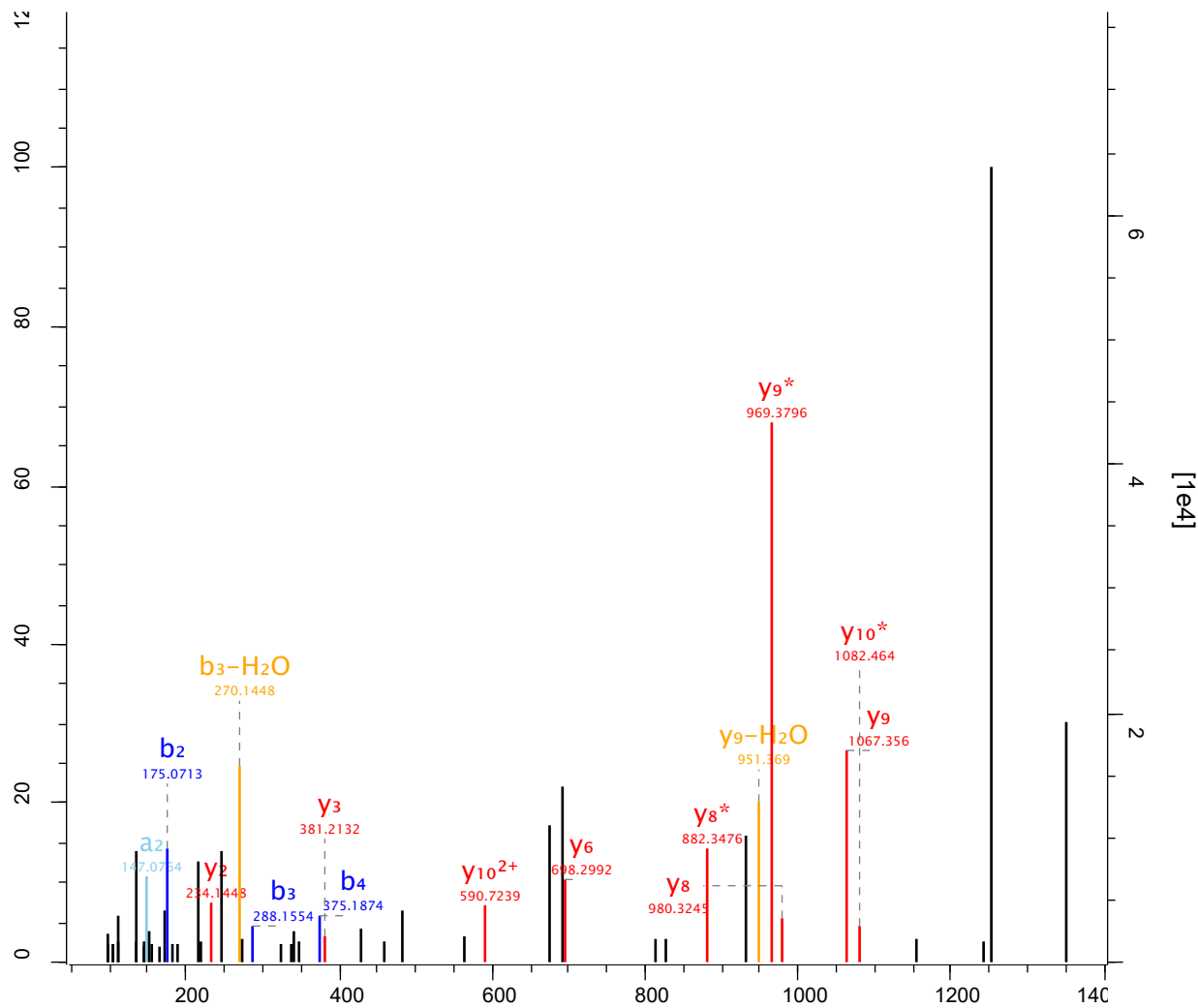
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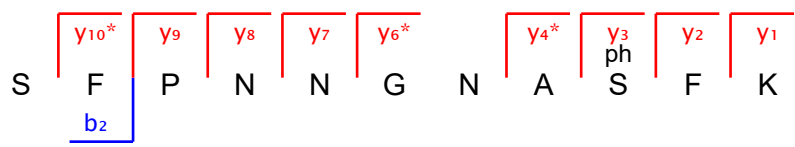
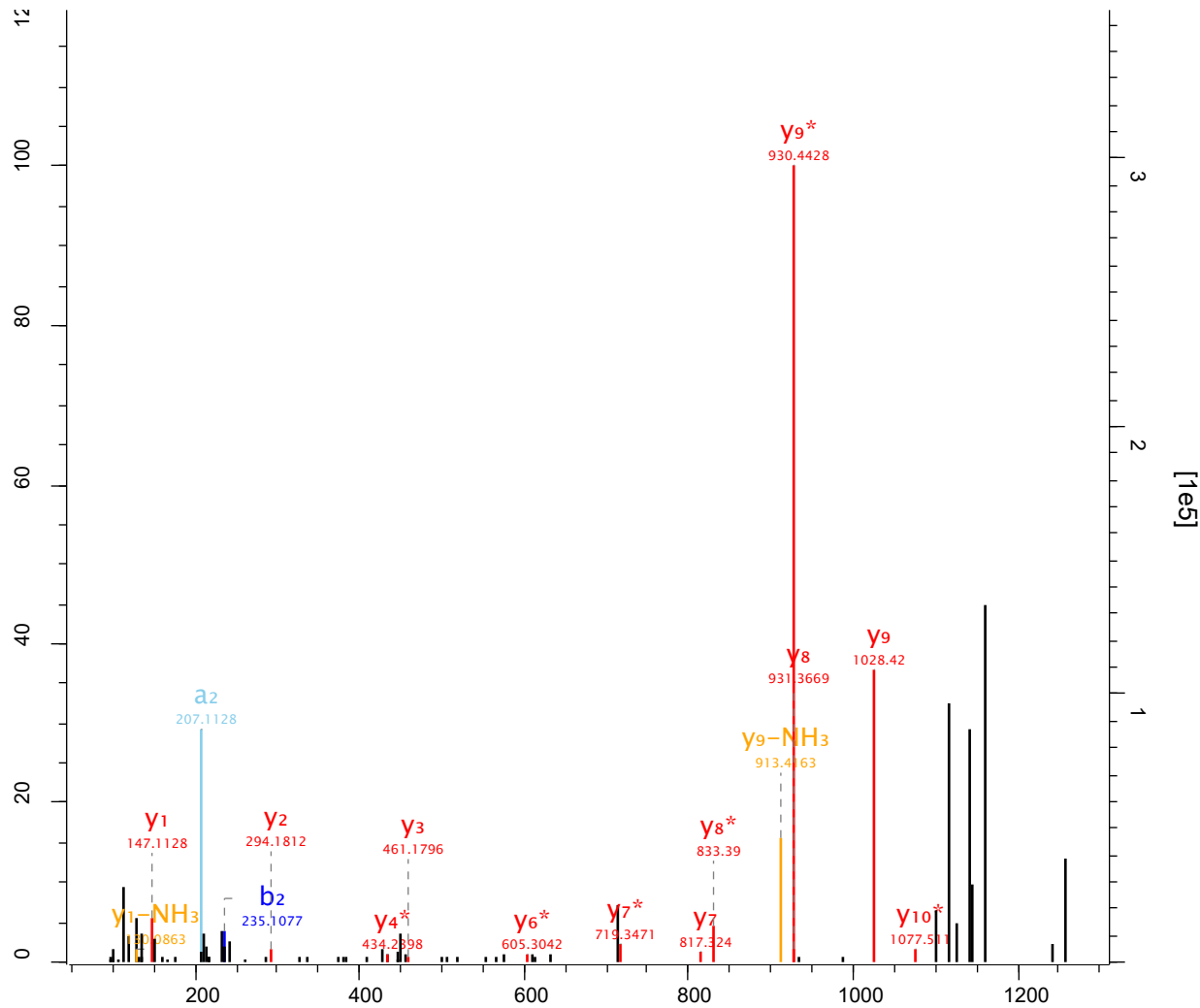
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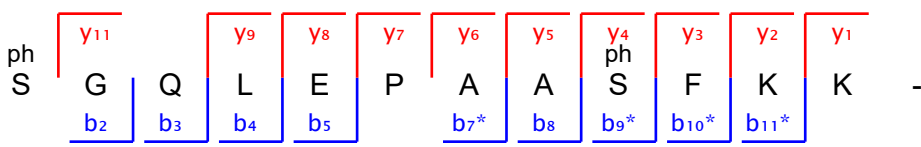
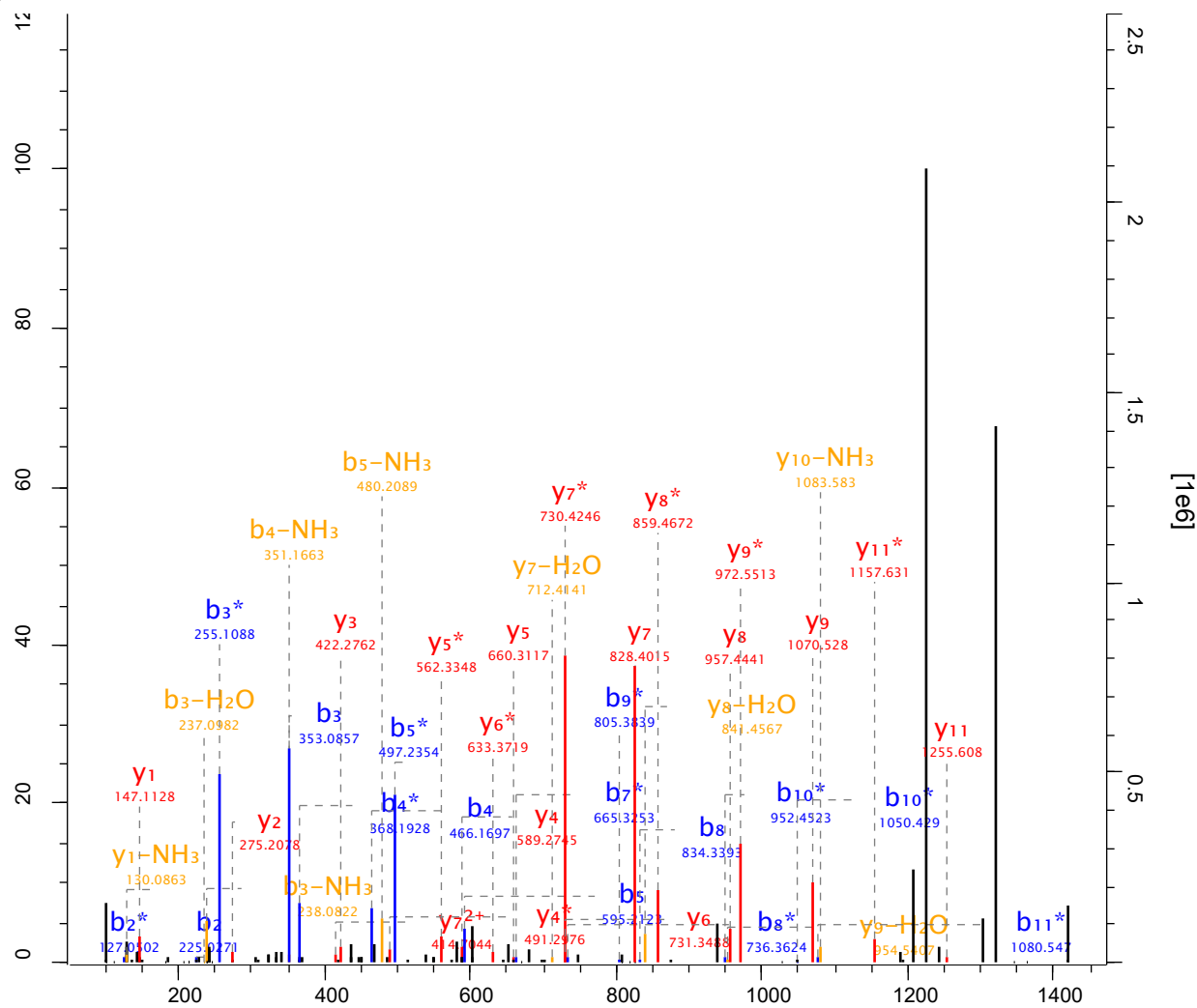
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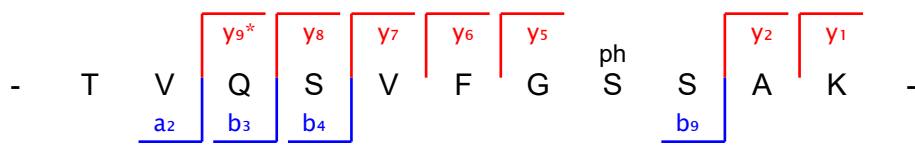
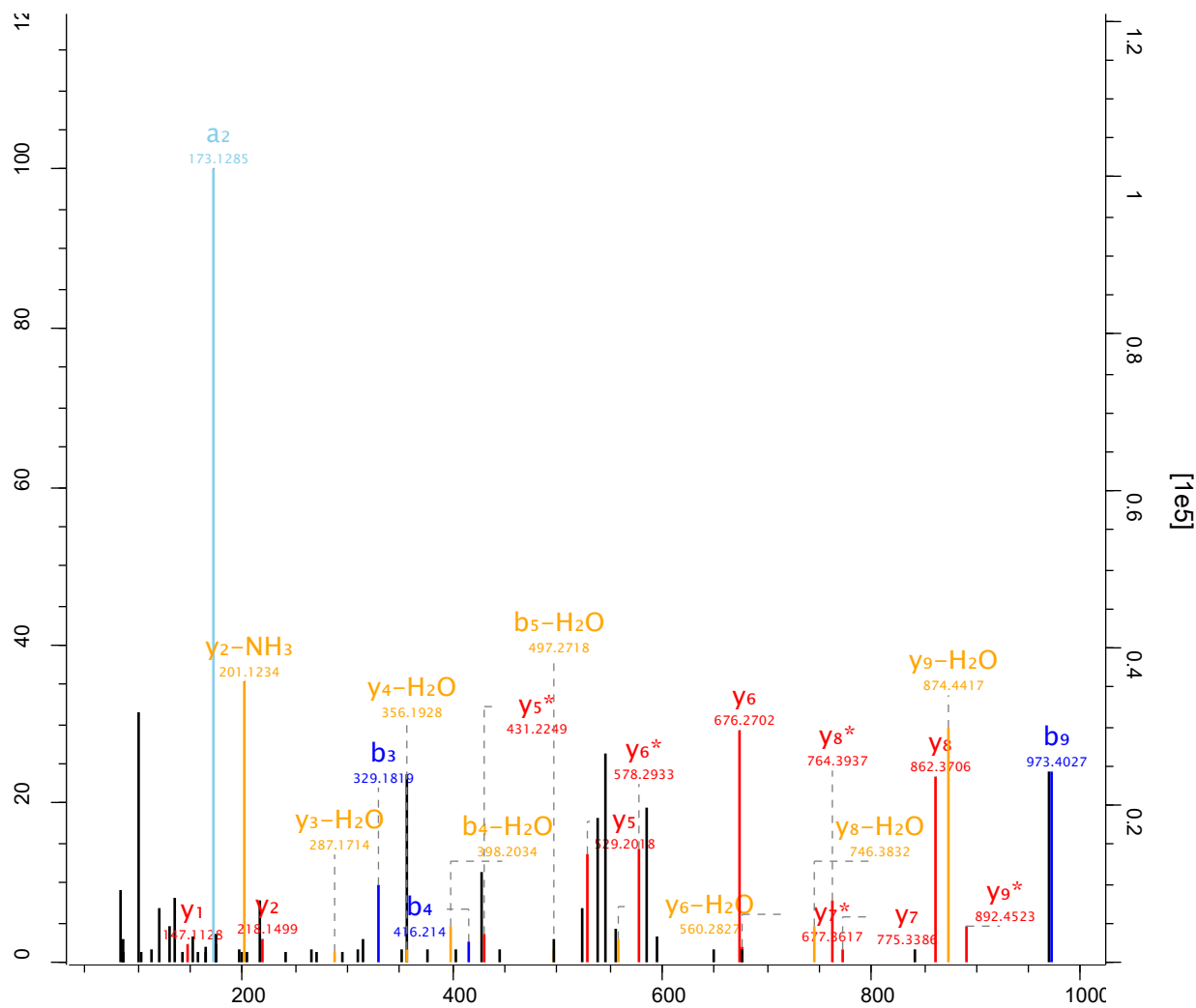
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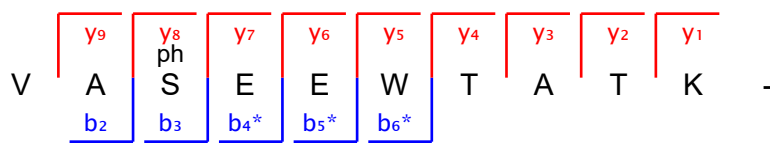
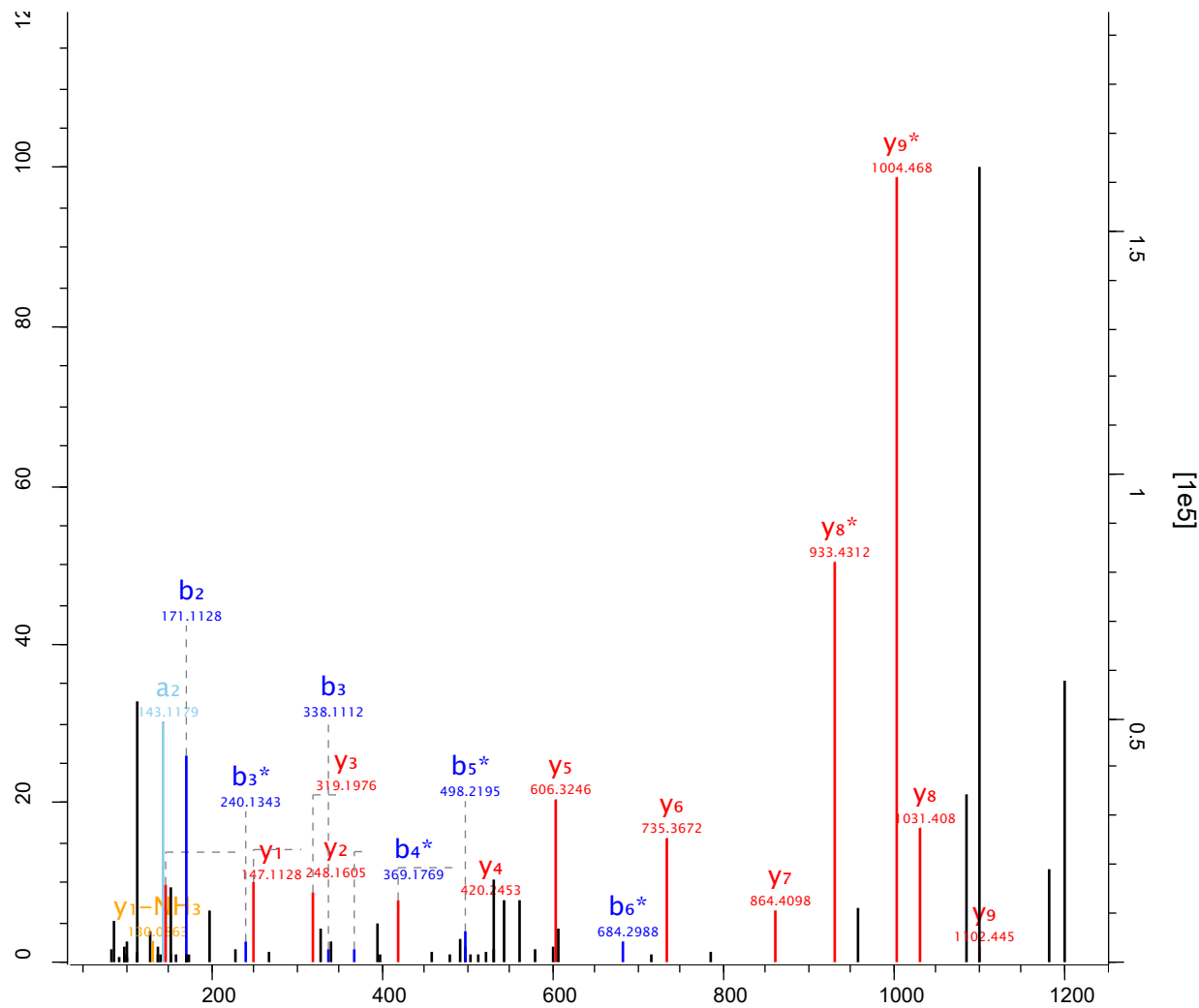
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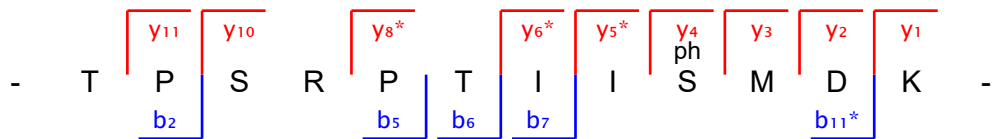
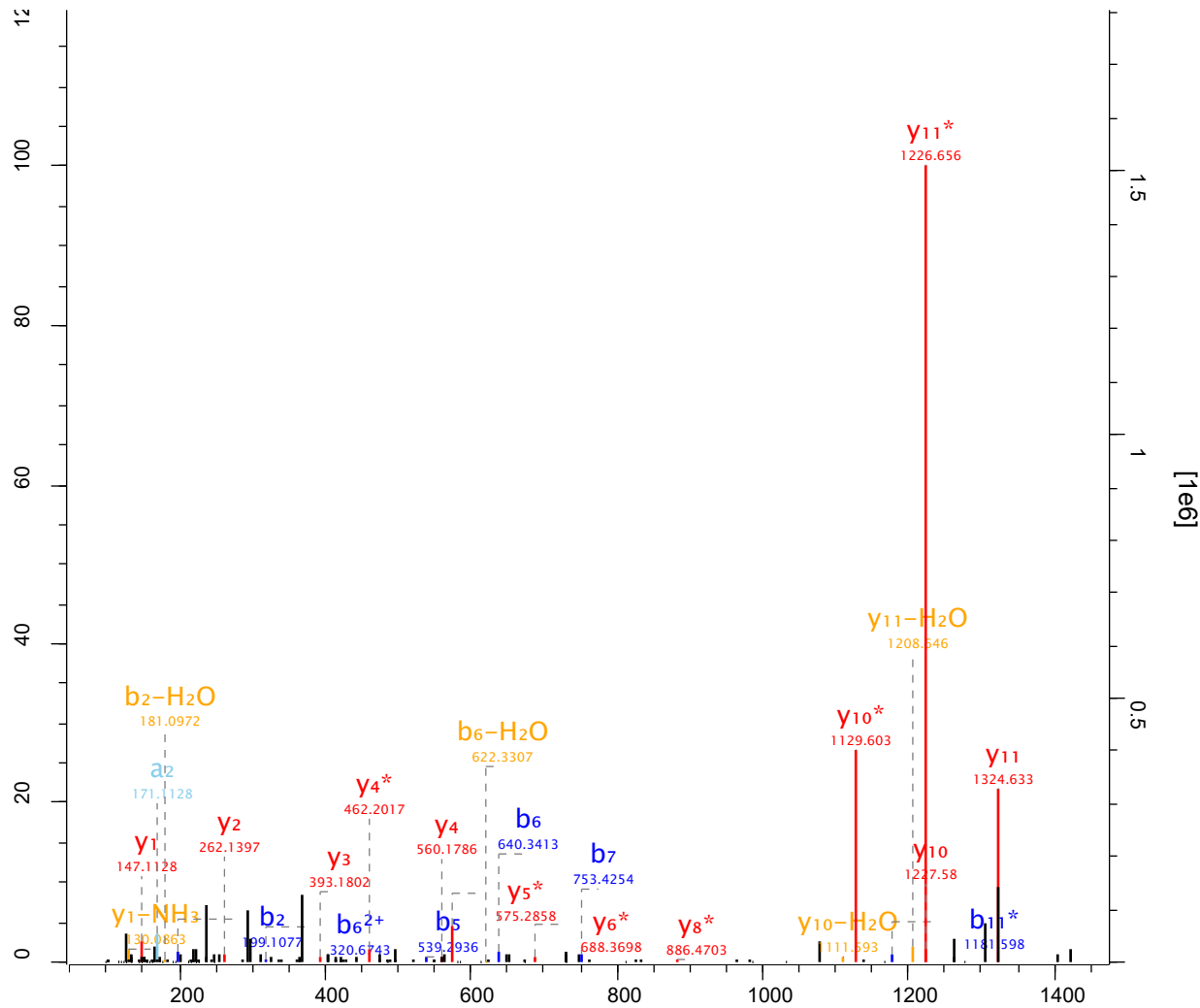
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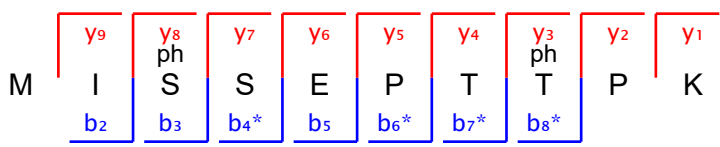
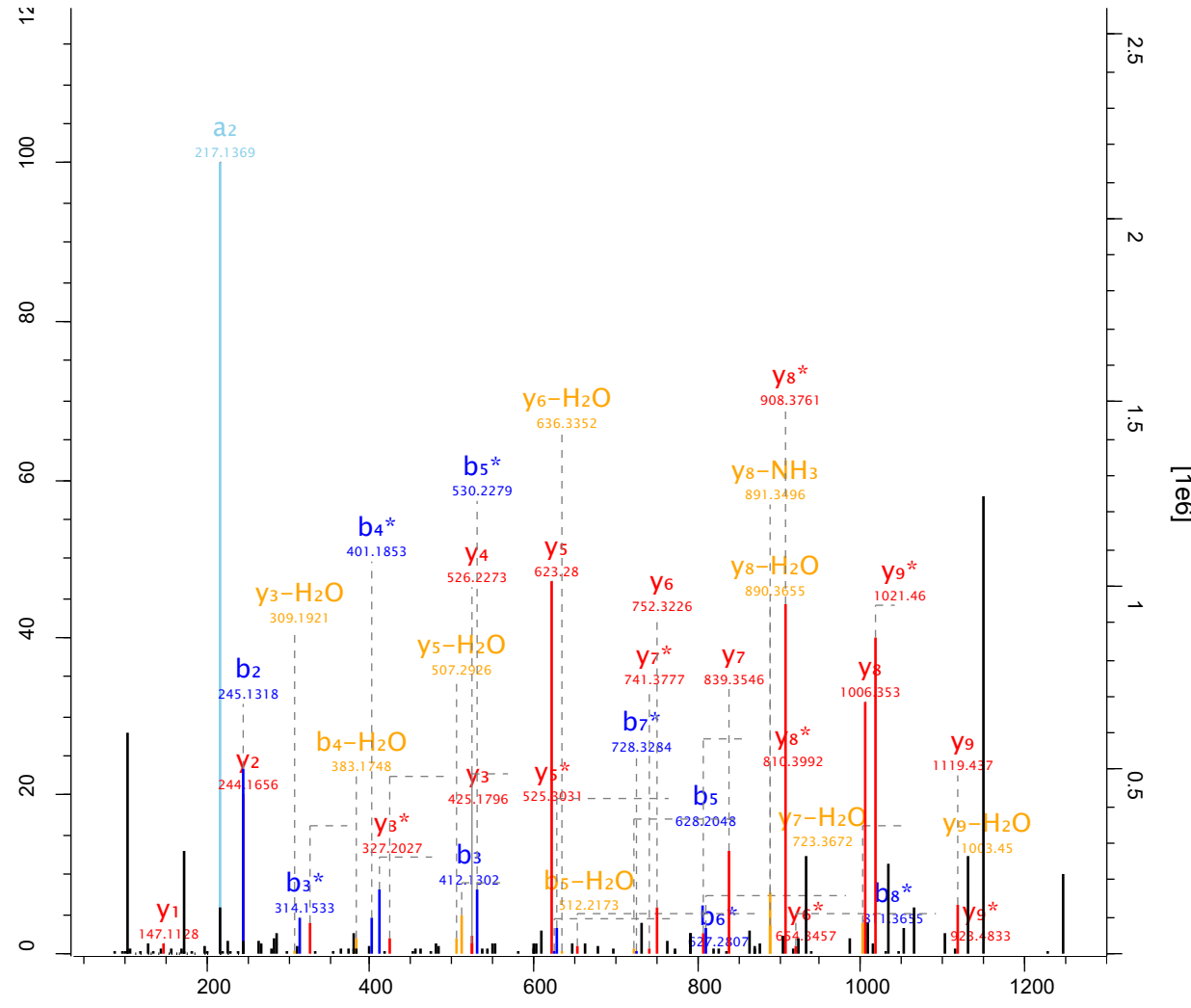


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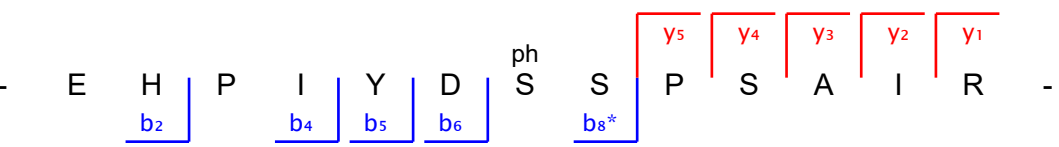
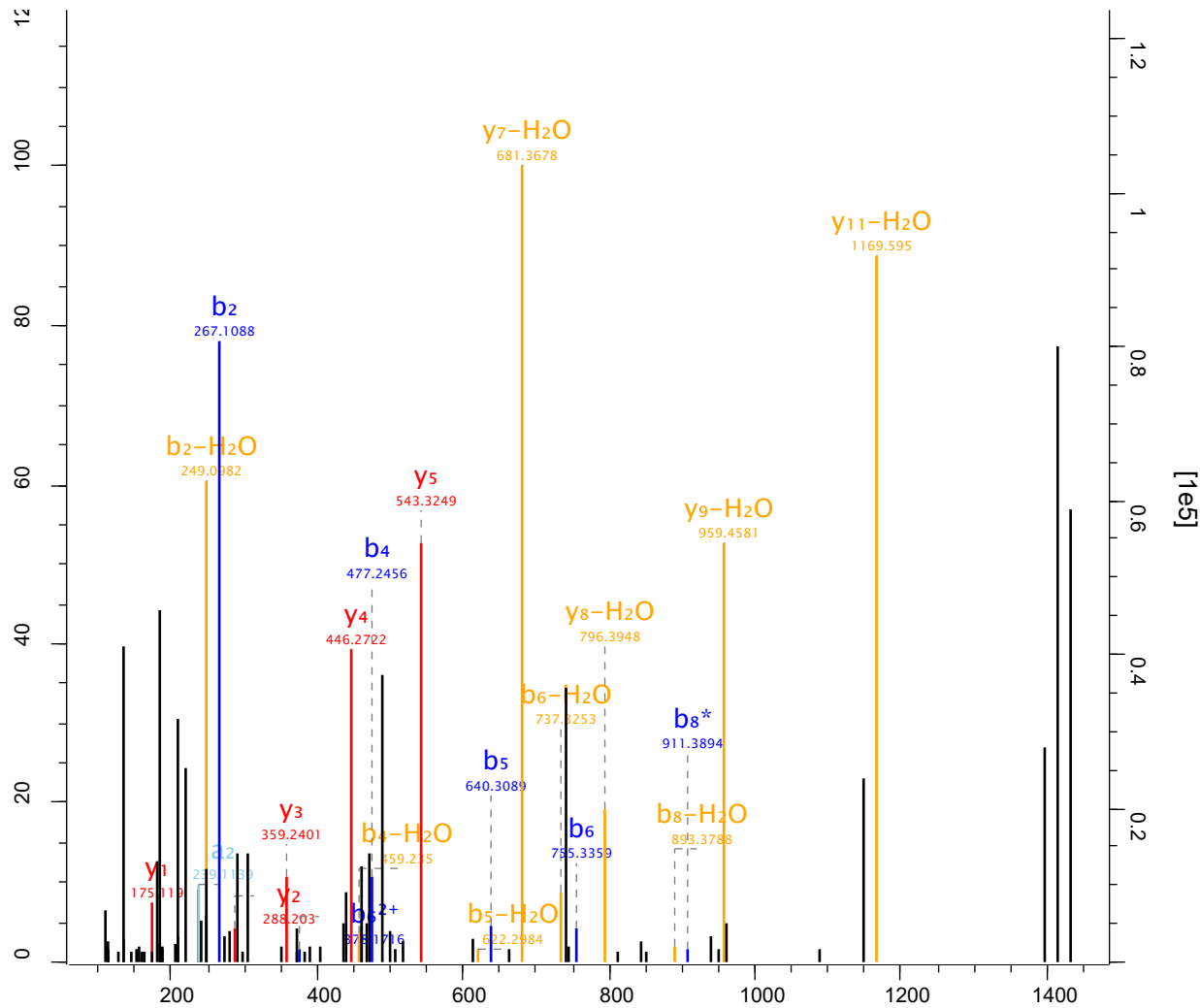




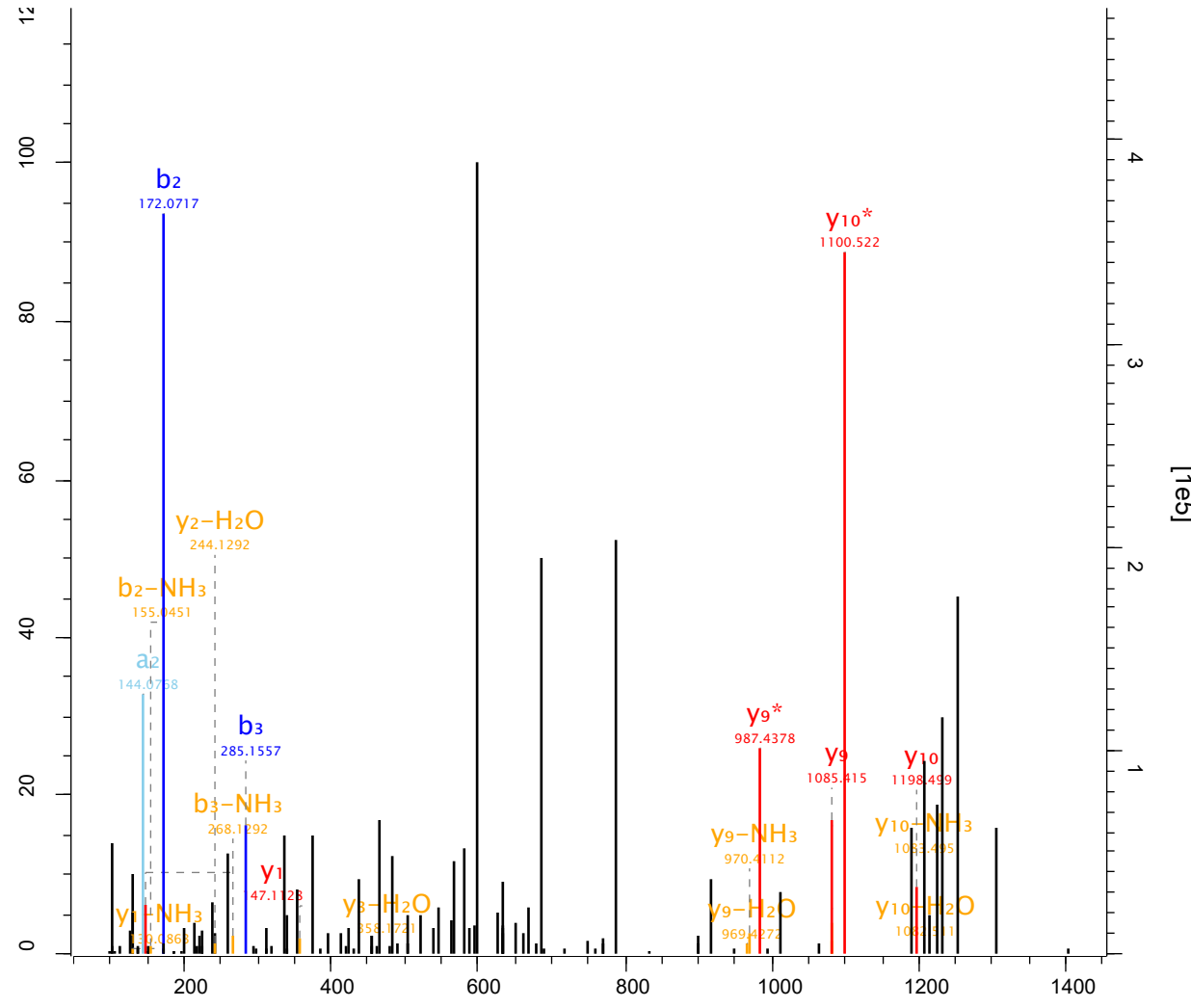
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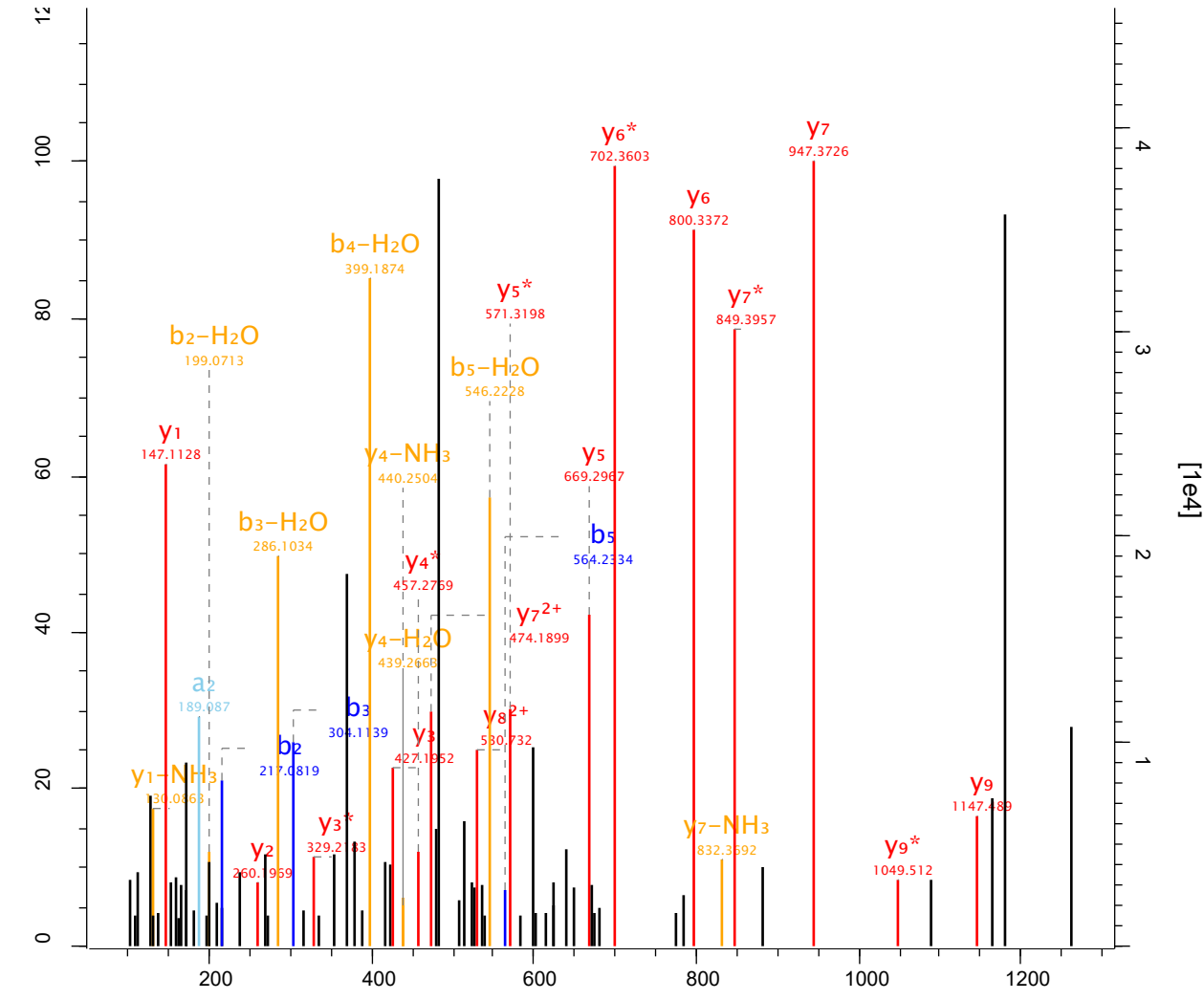
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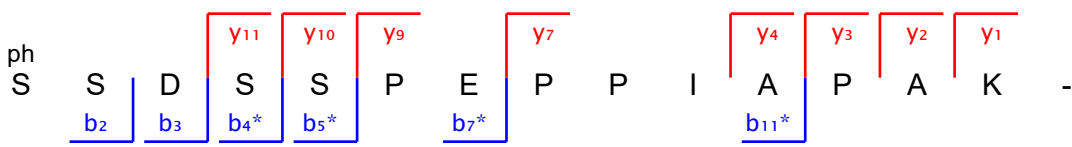
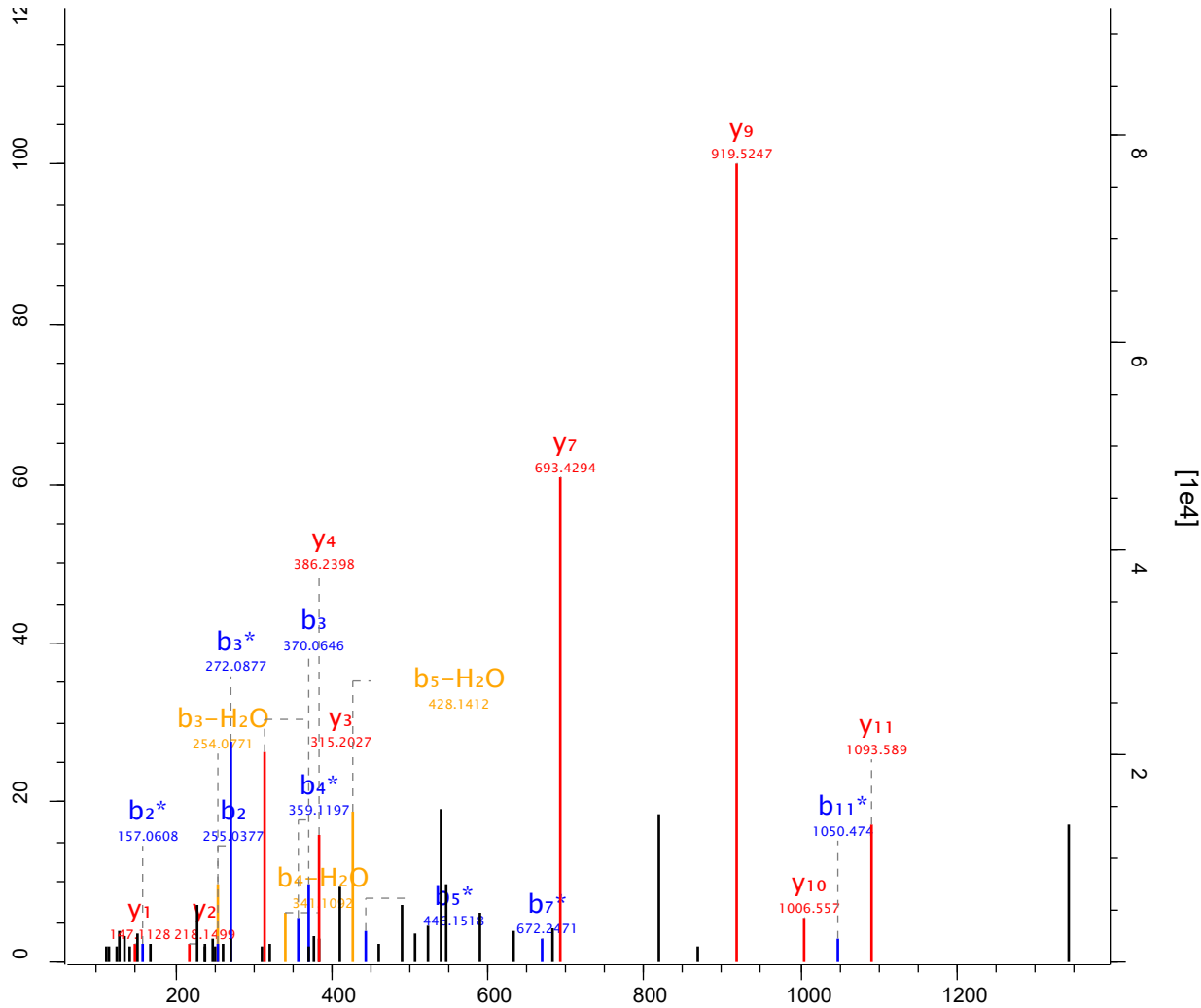
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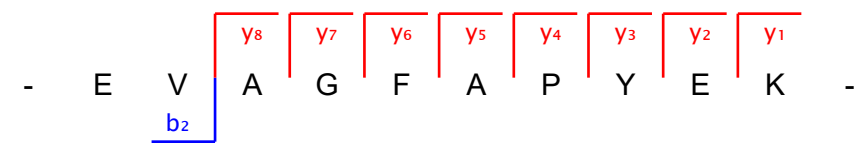
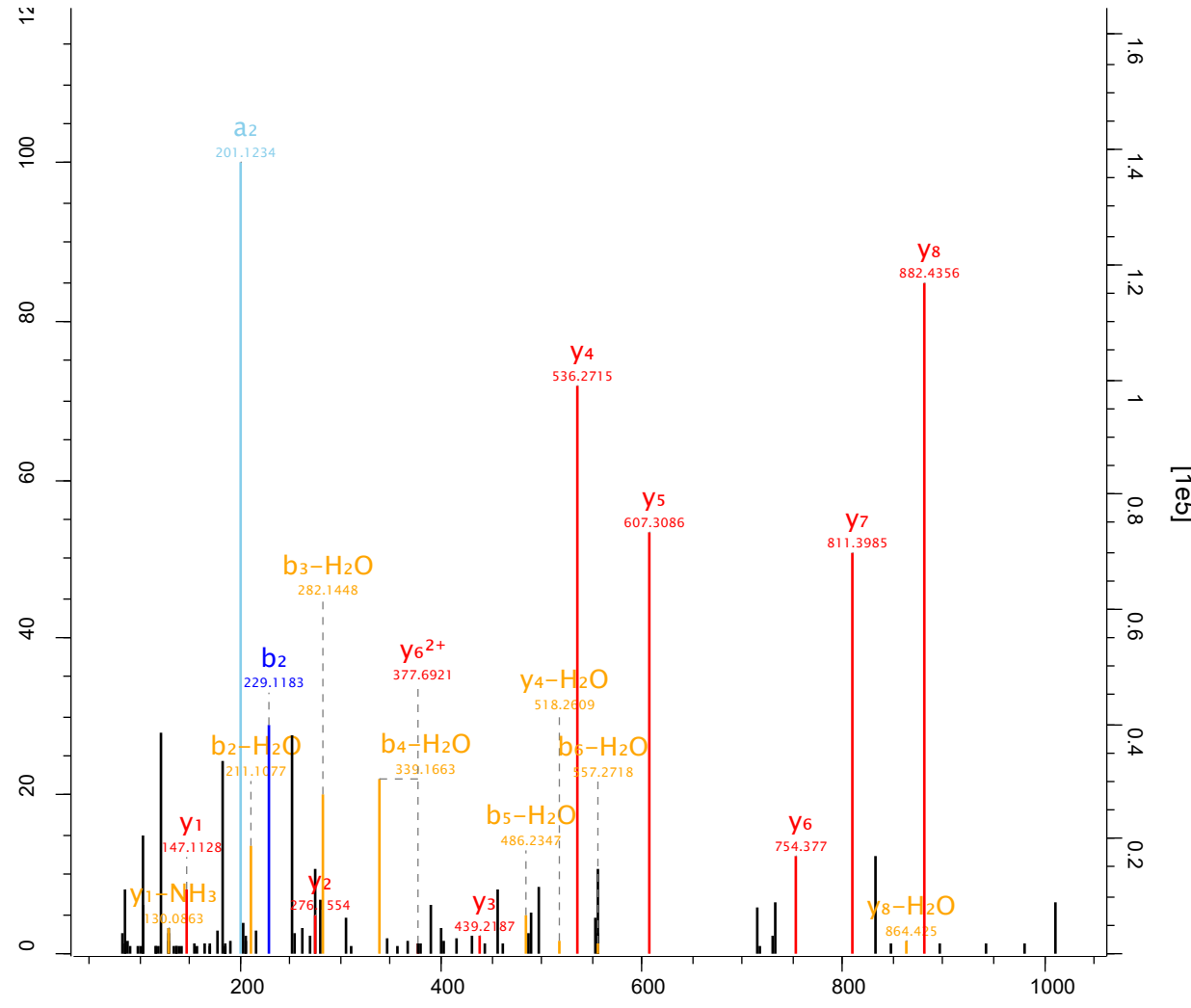
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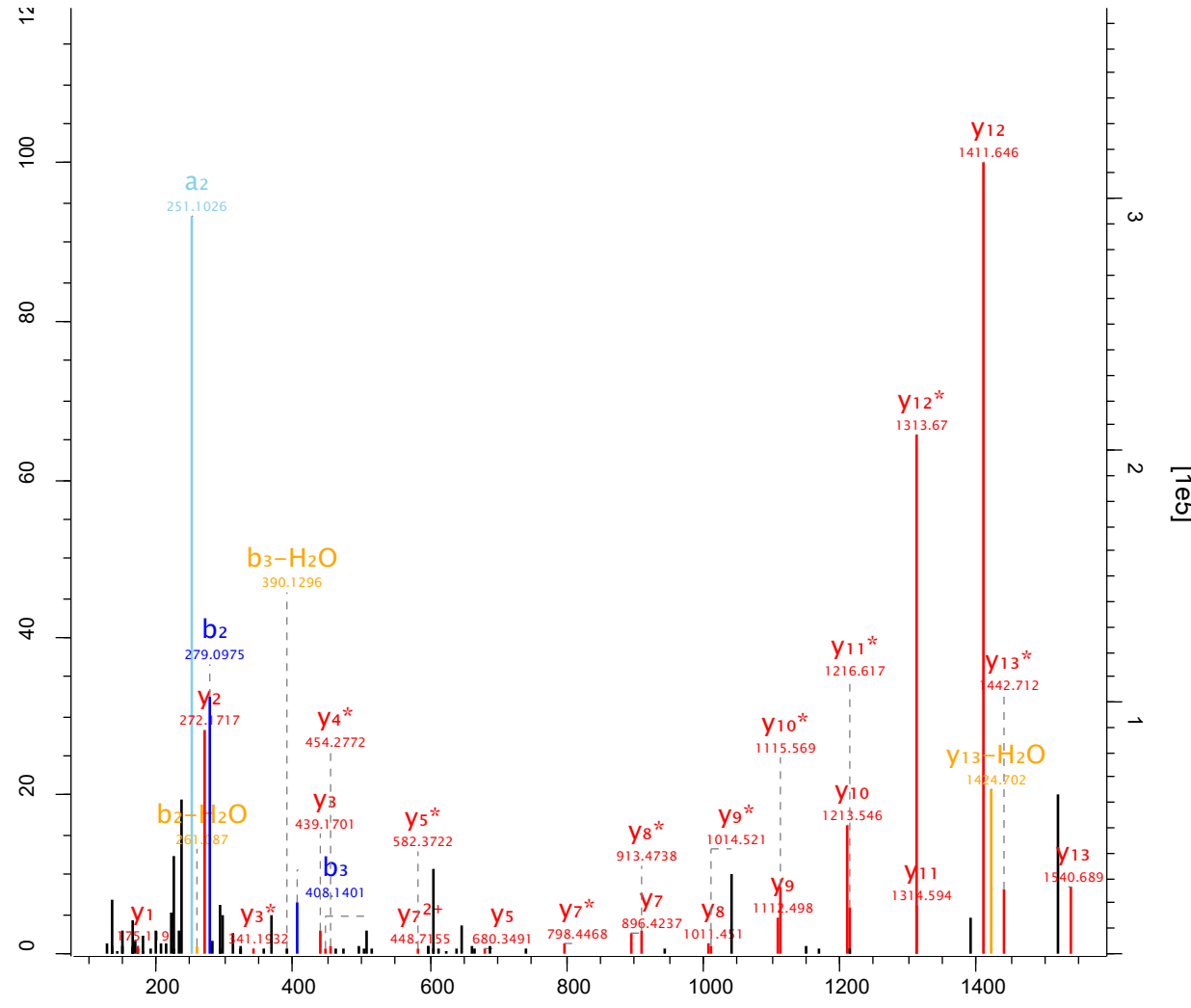
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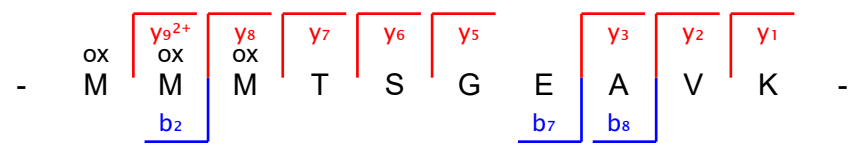
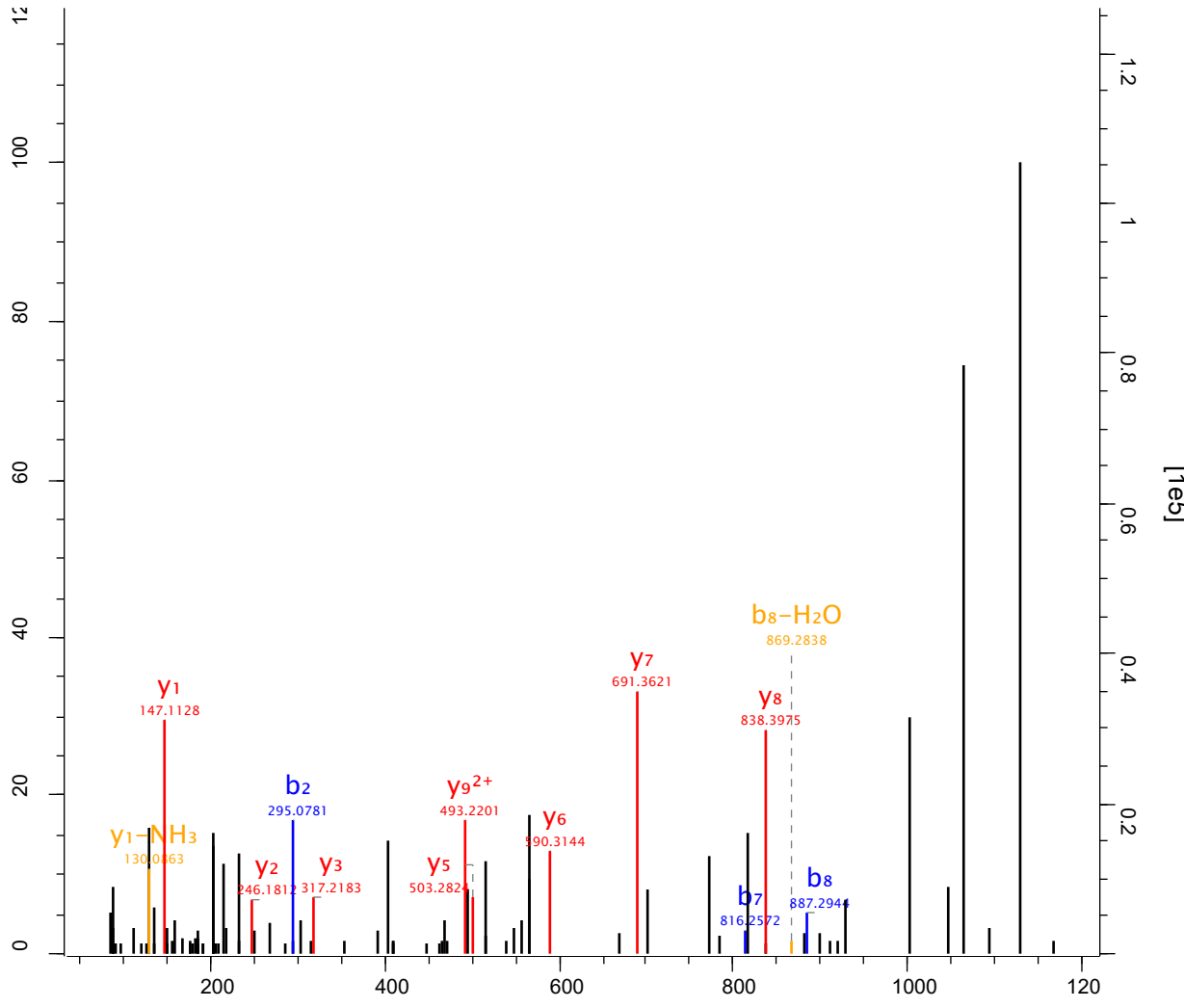
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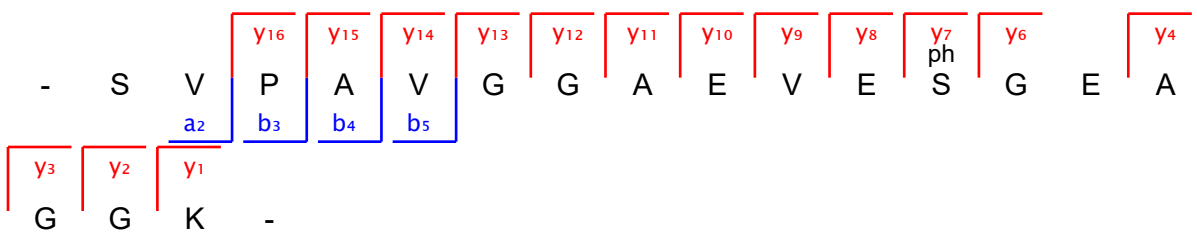
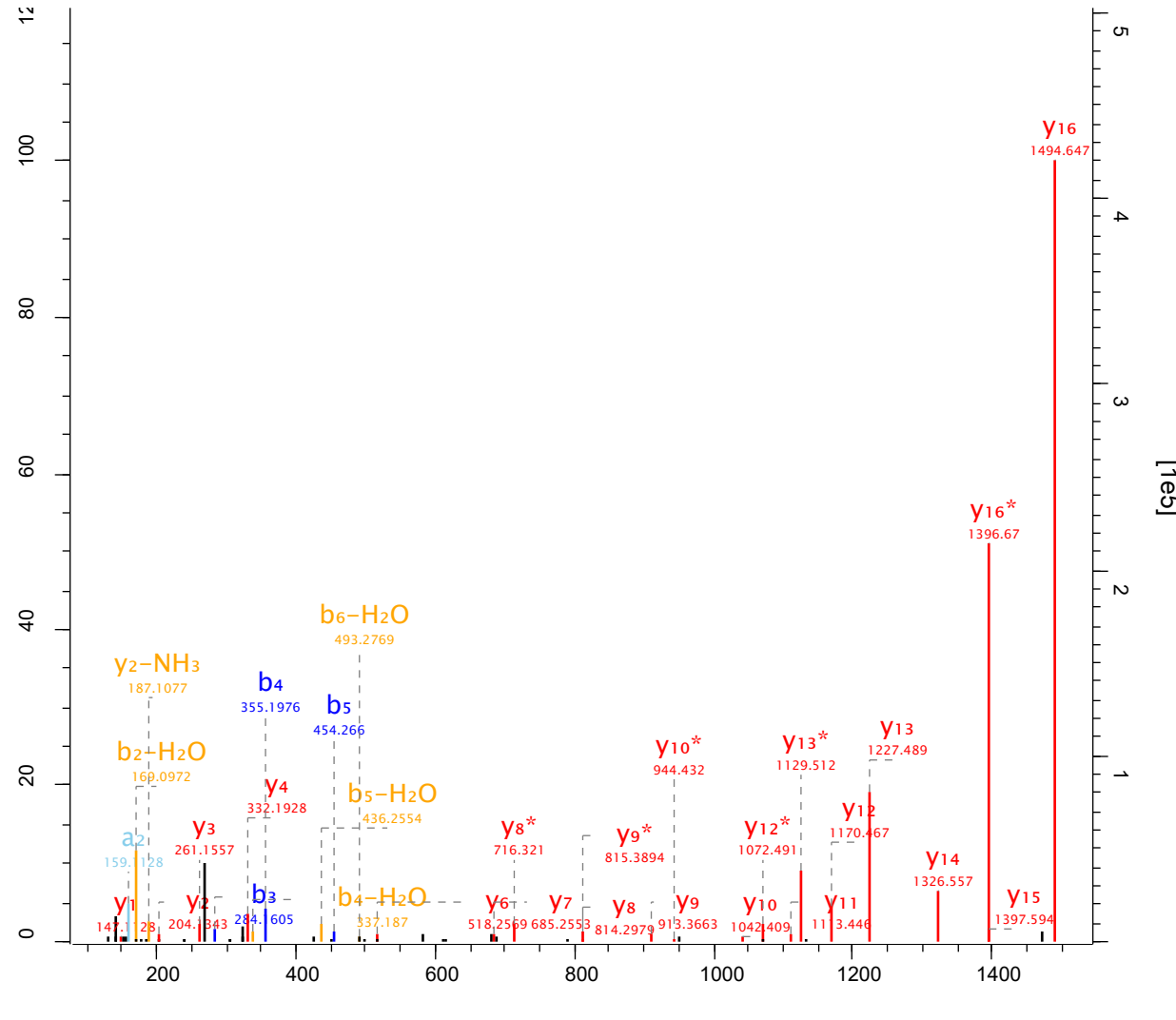
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Raw file	Scan	Method	Score	m/z
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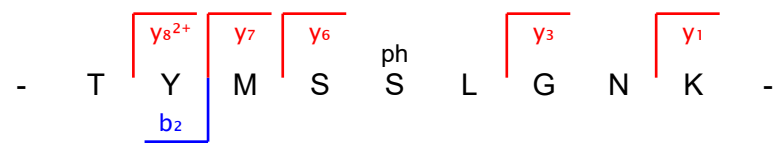
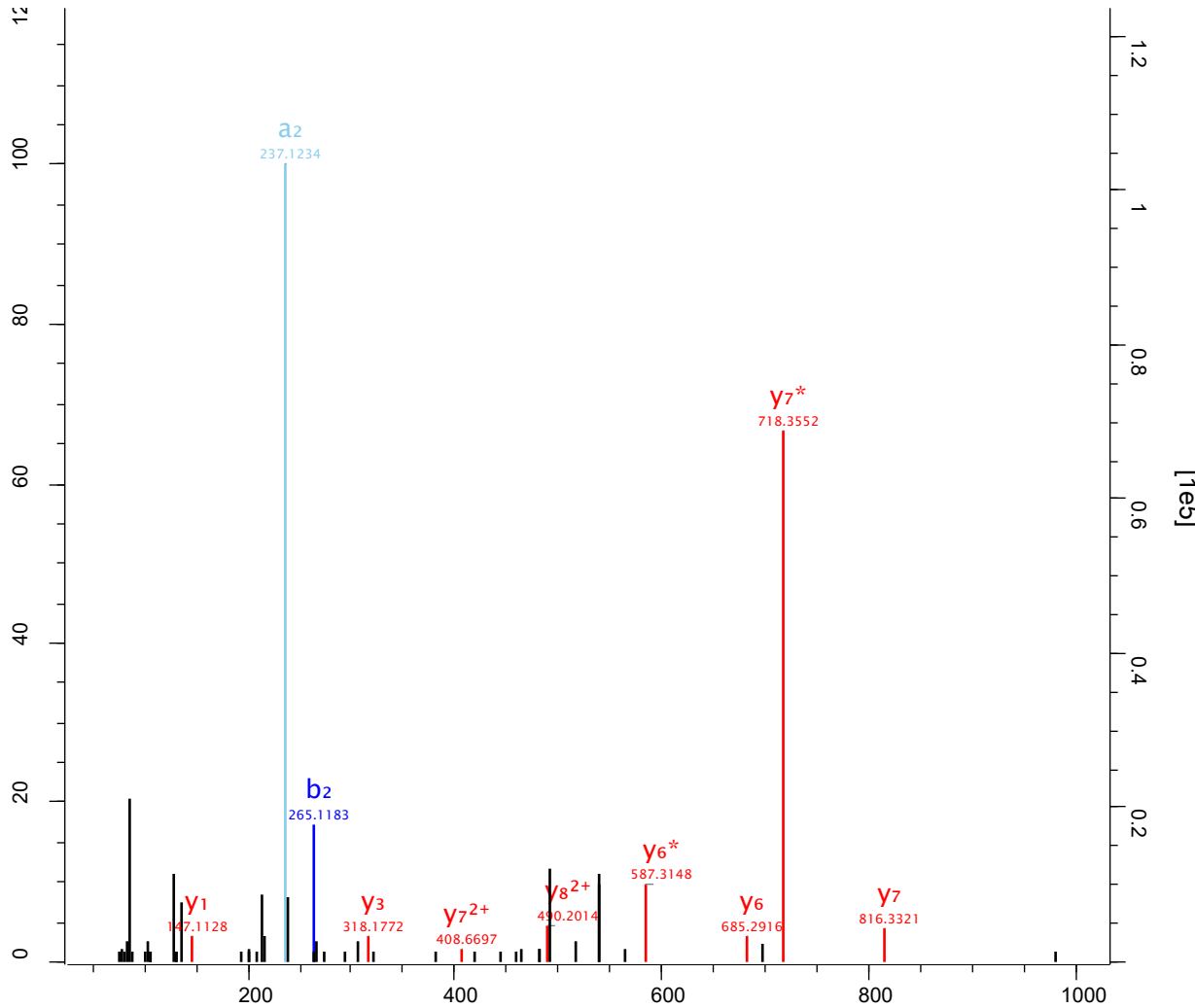




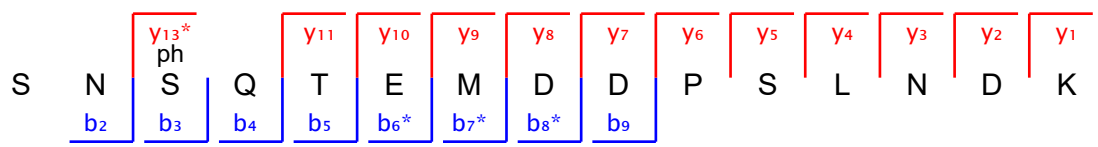
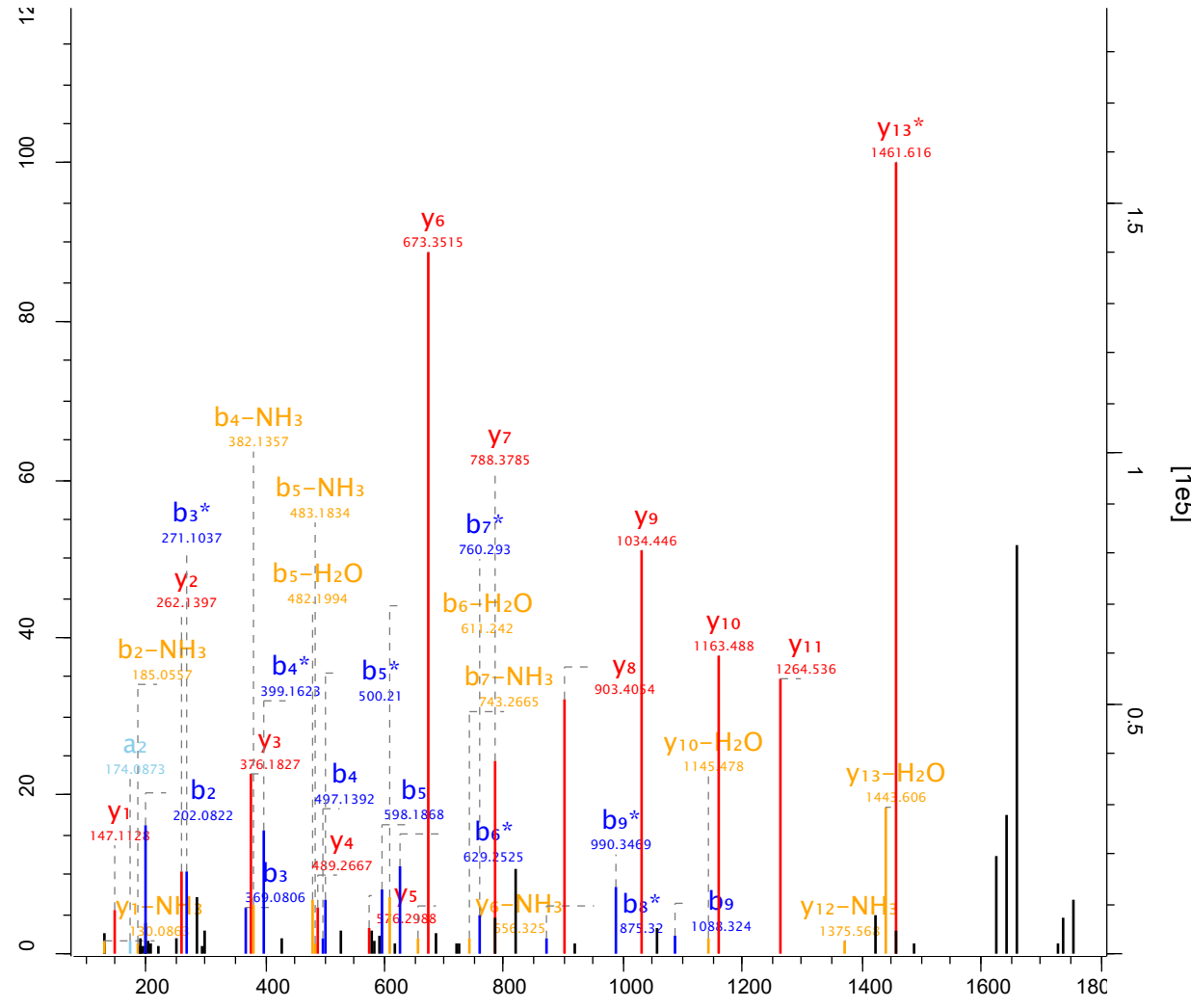
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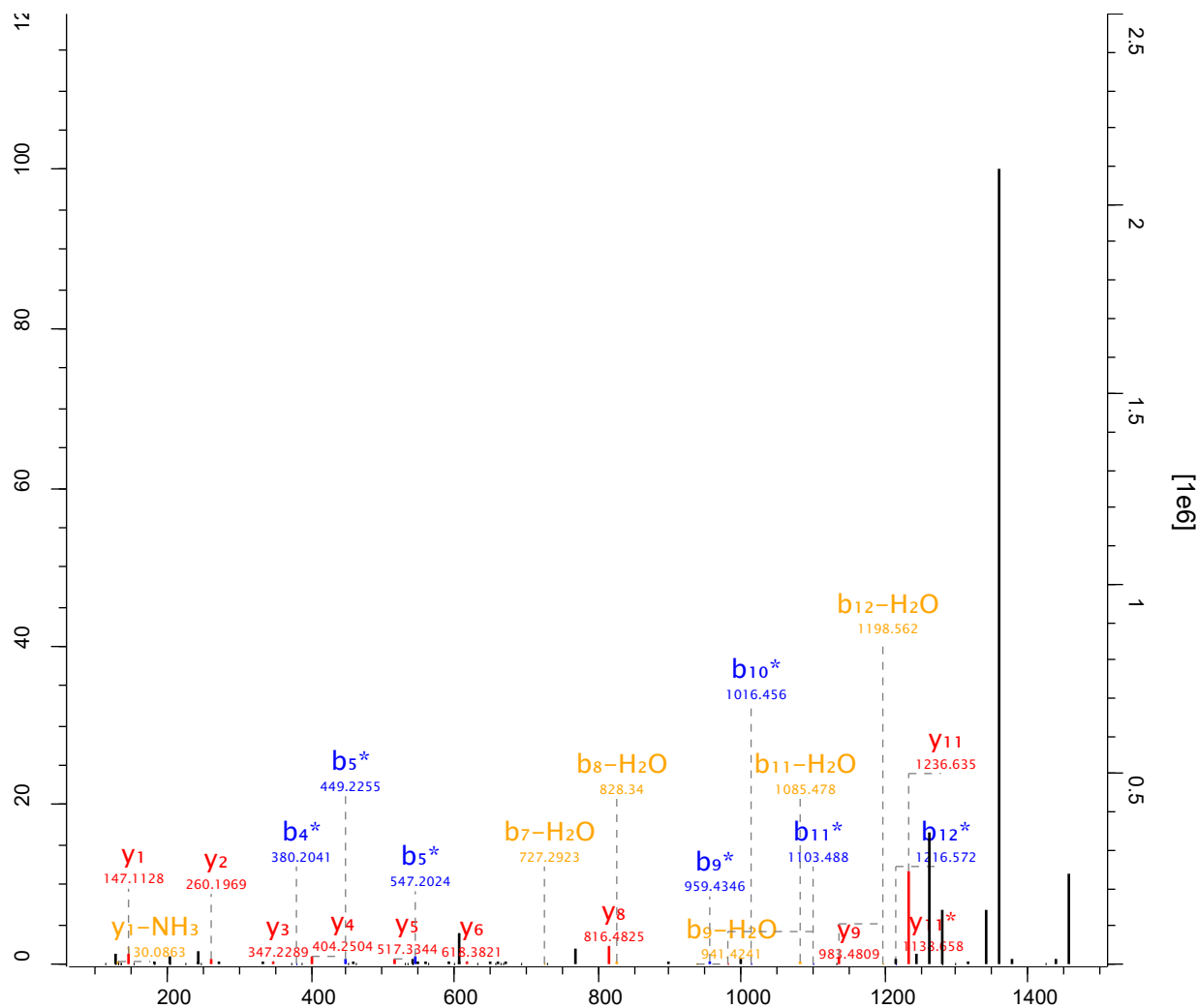
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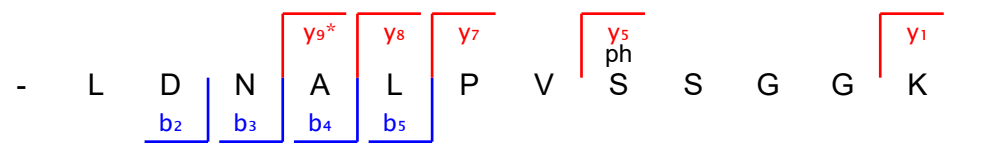
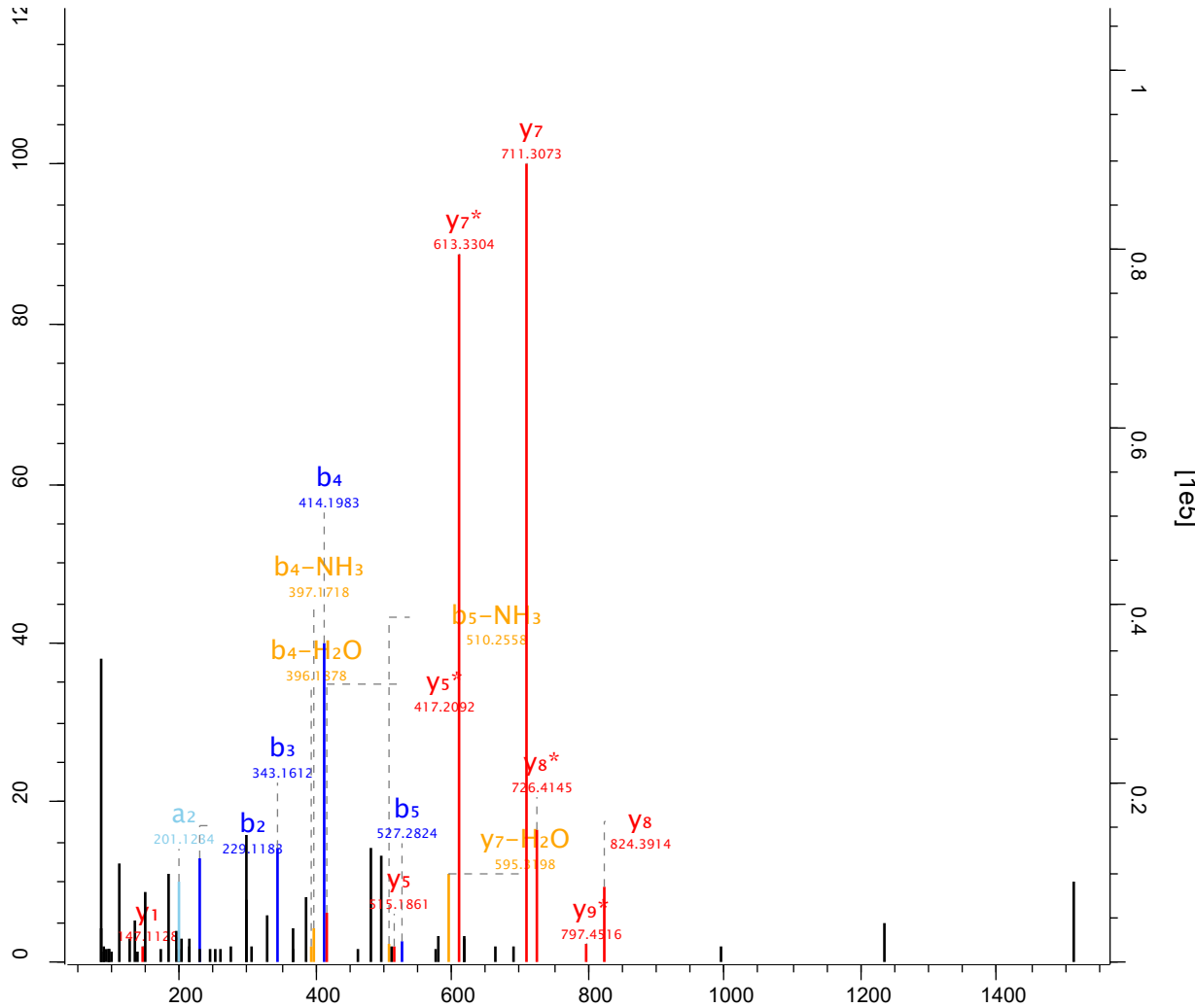


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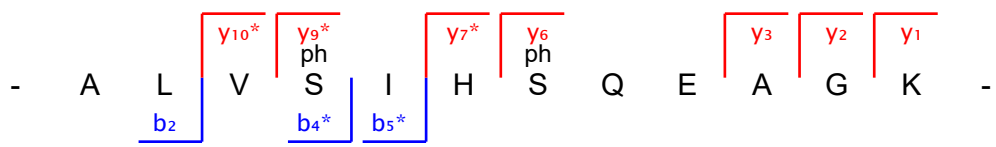
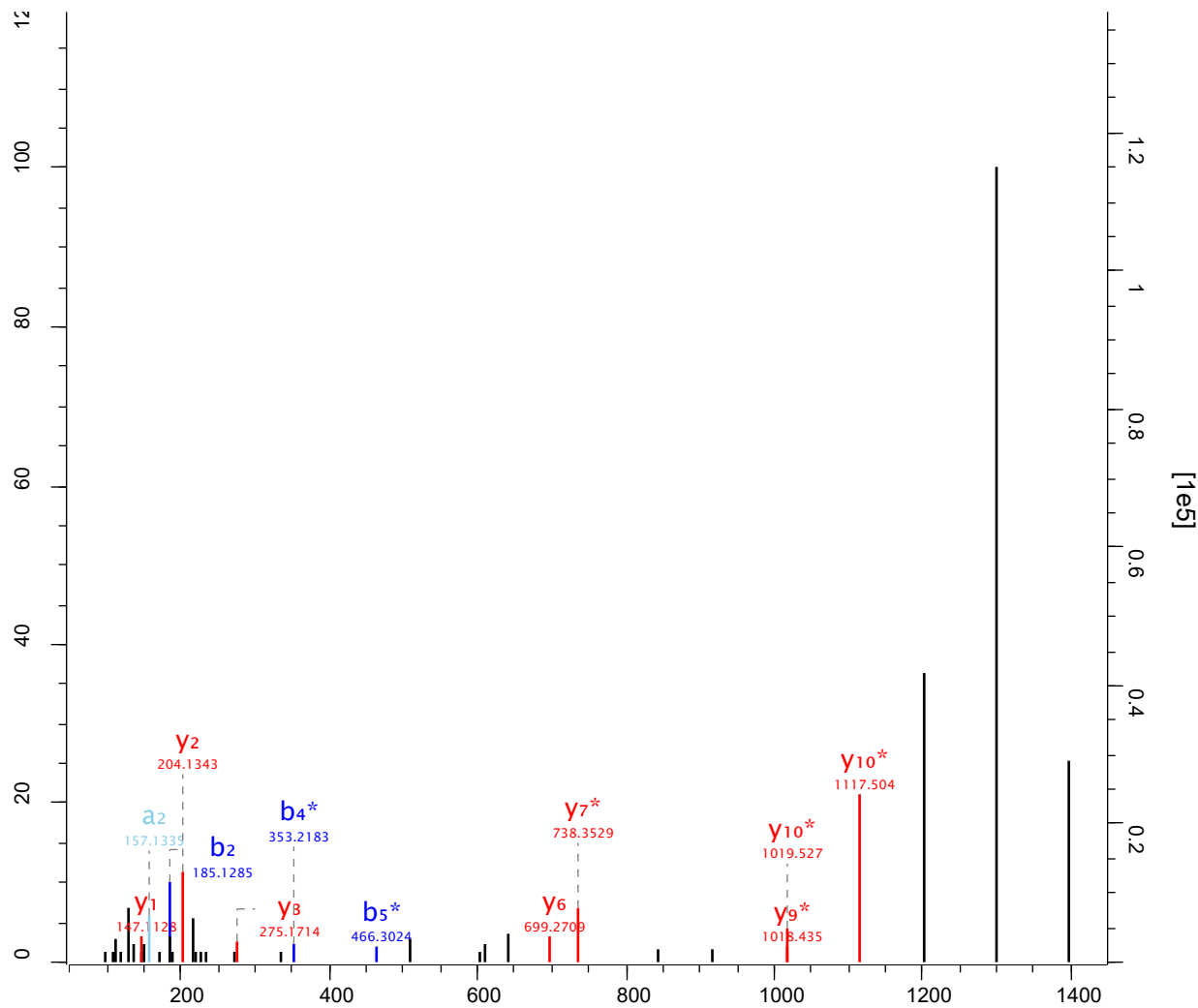
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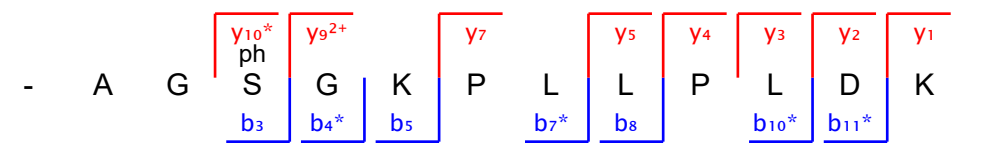
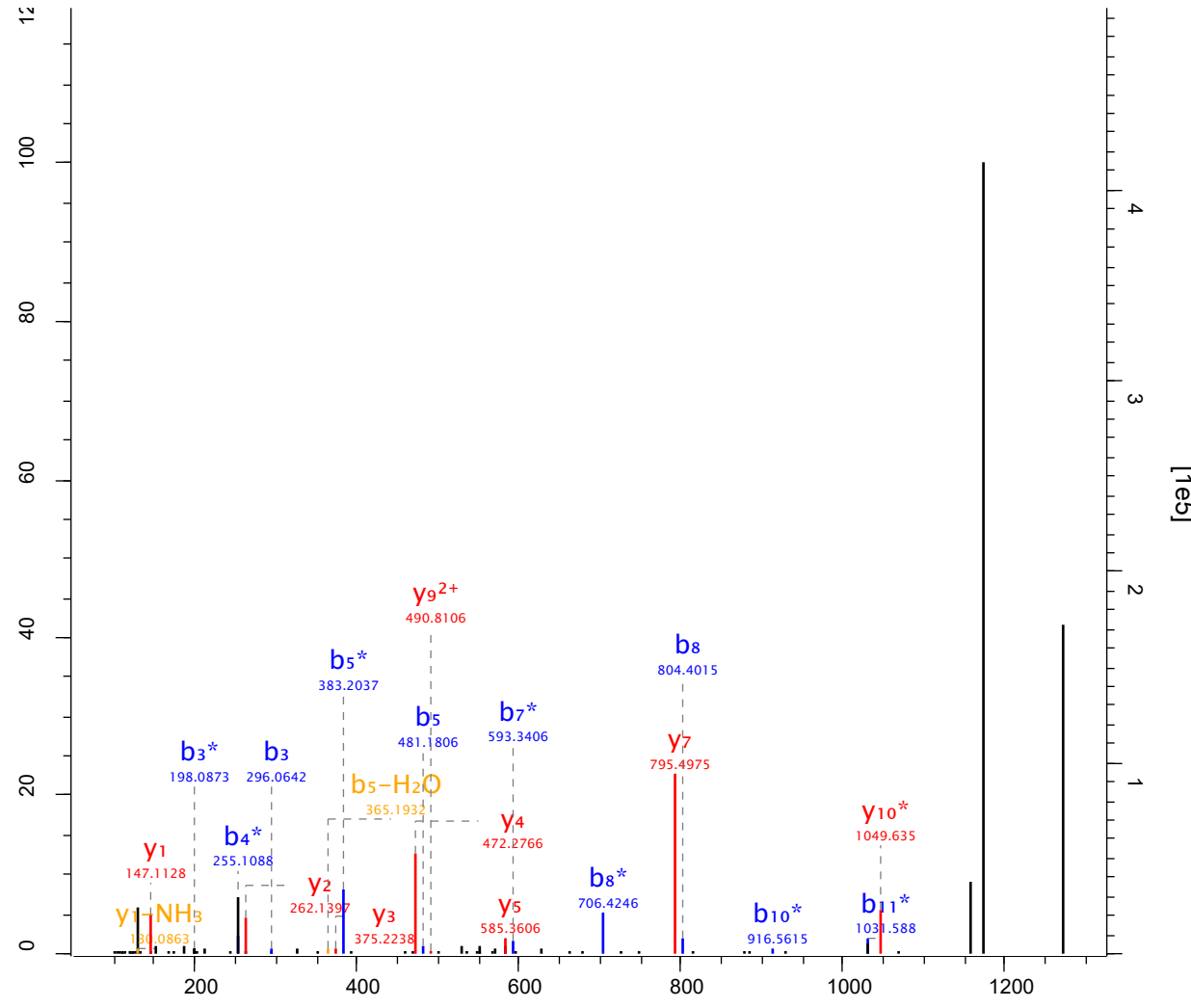
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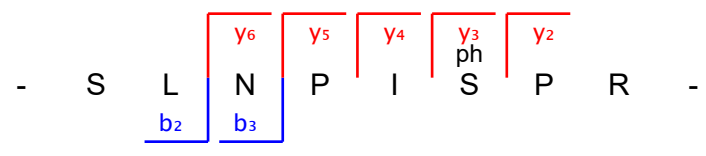
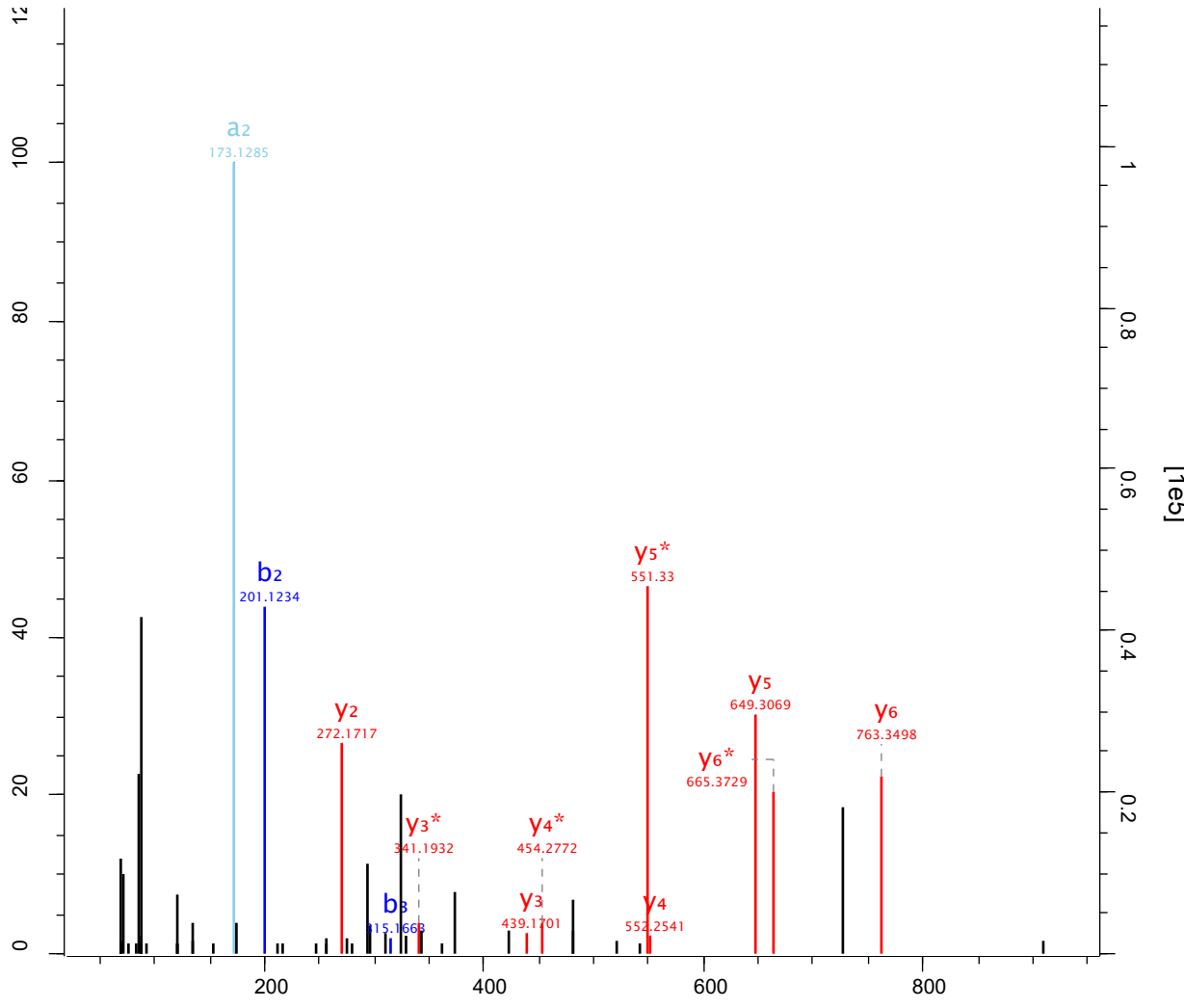
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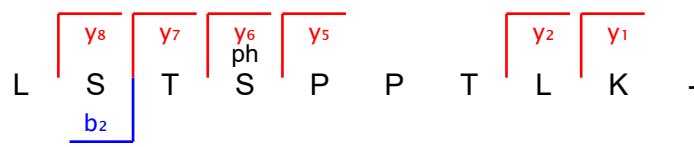
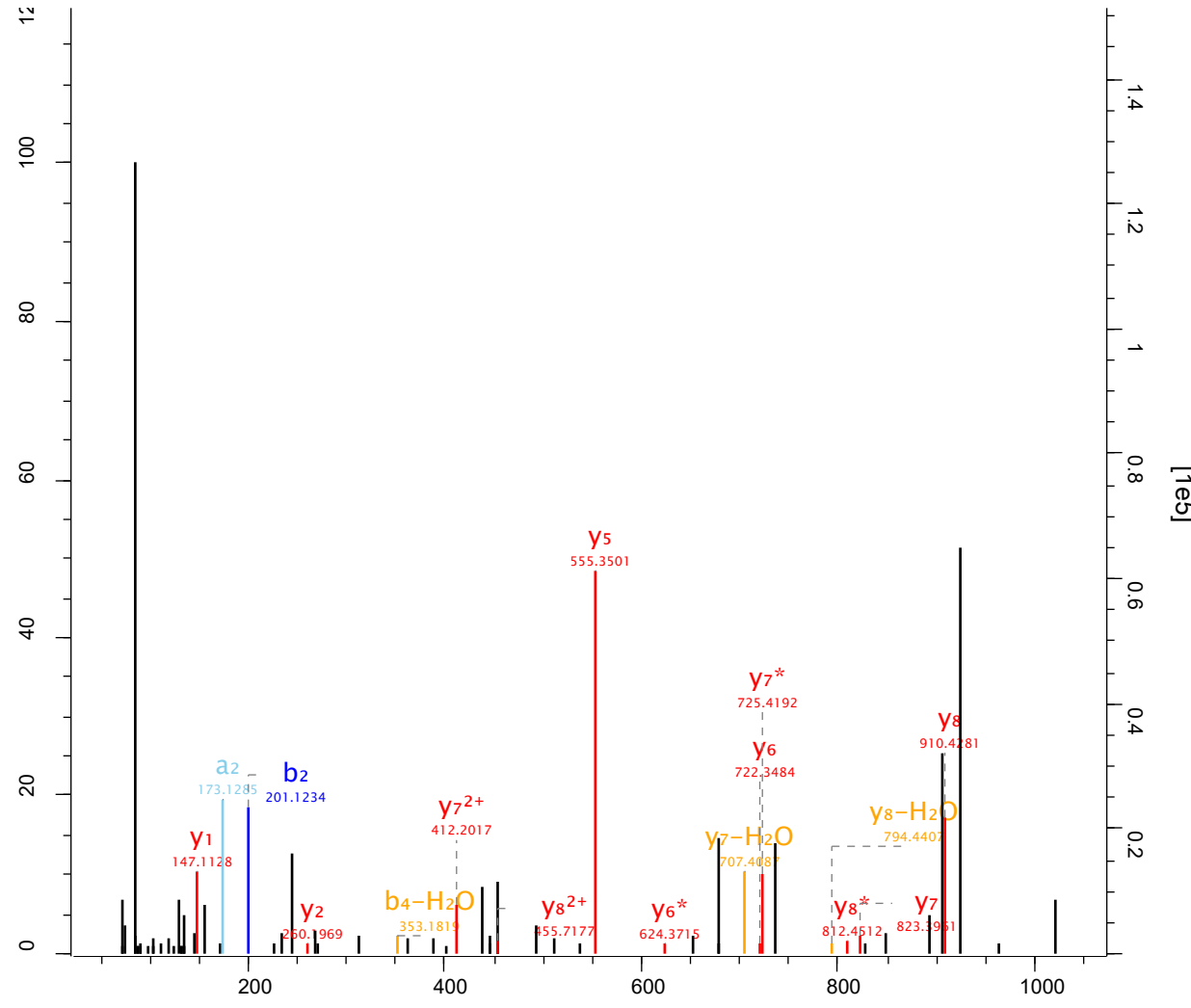


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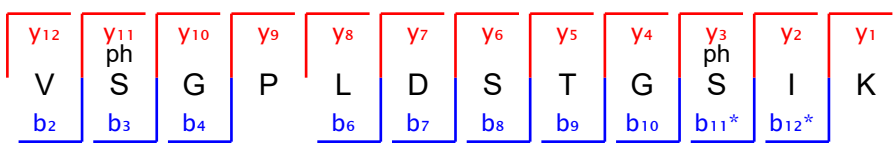
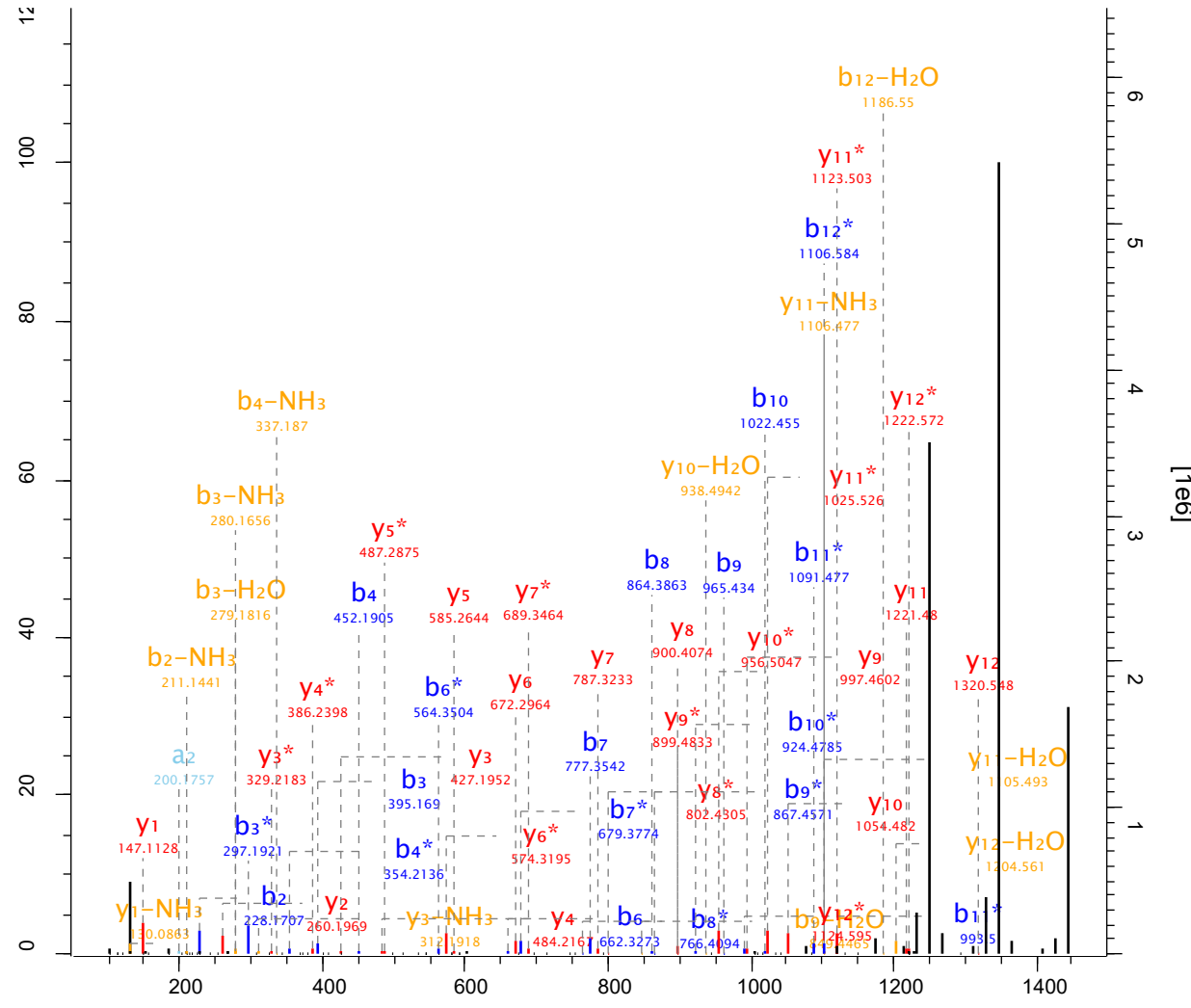




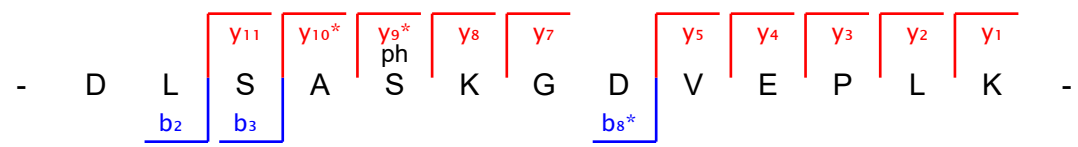
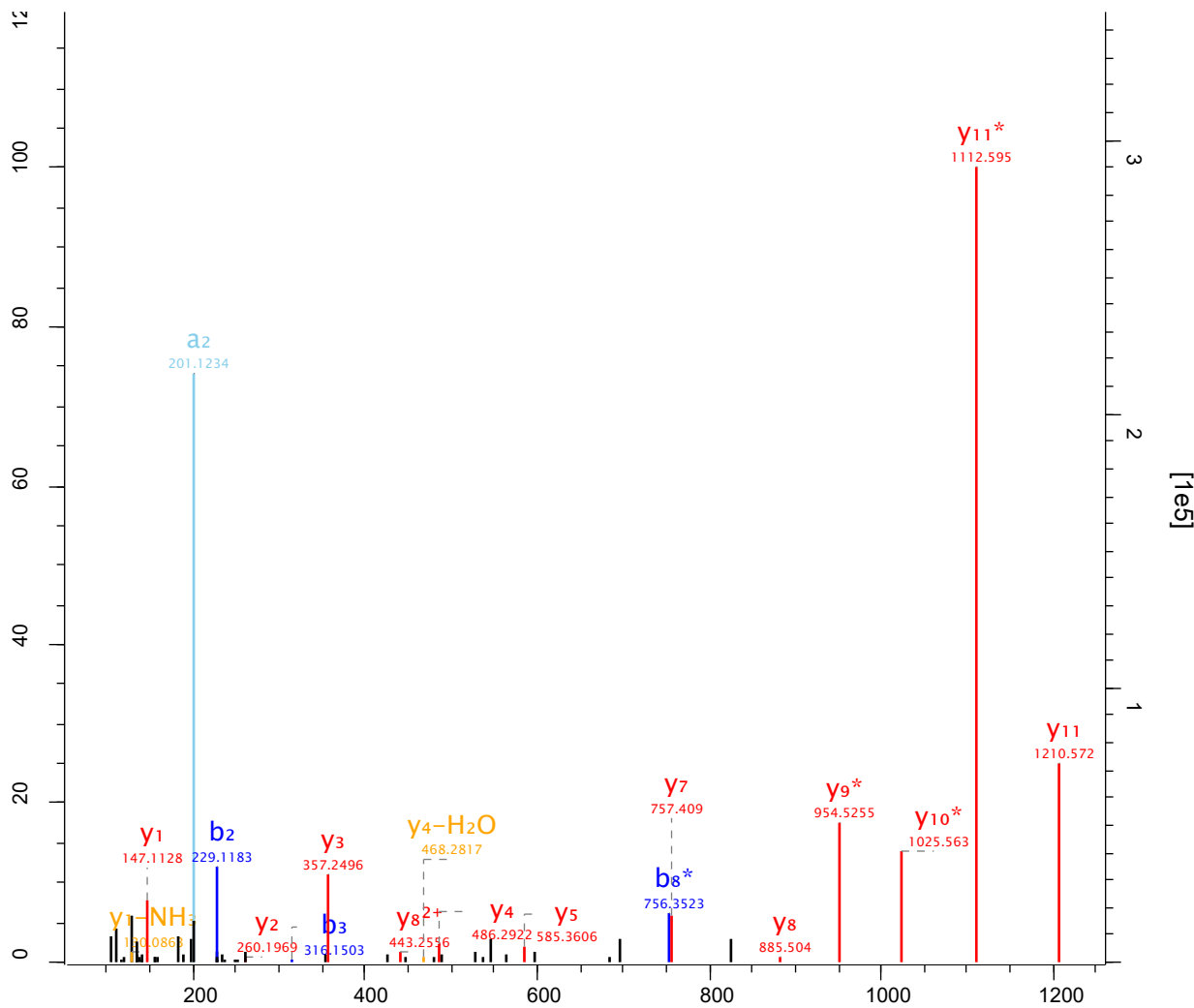
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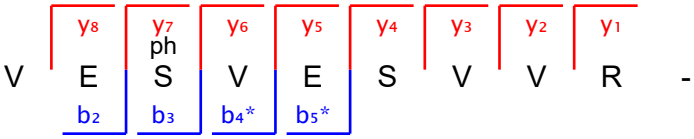
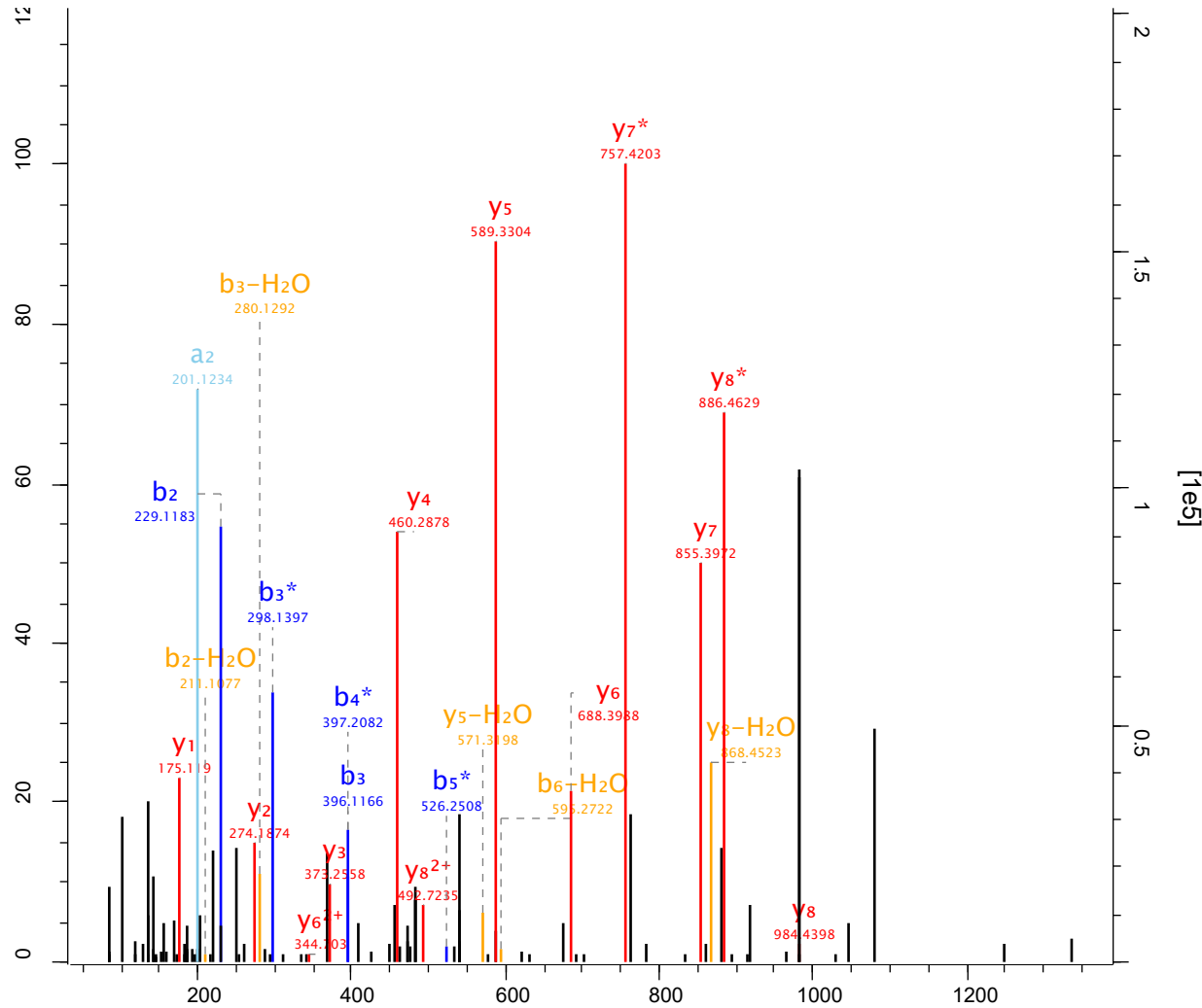
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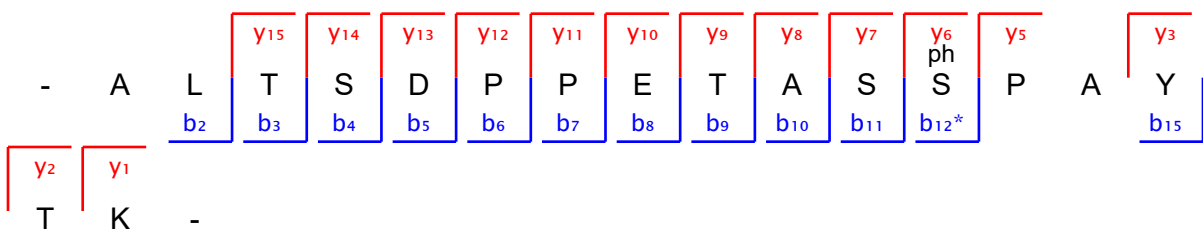
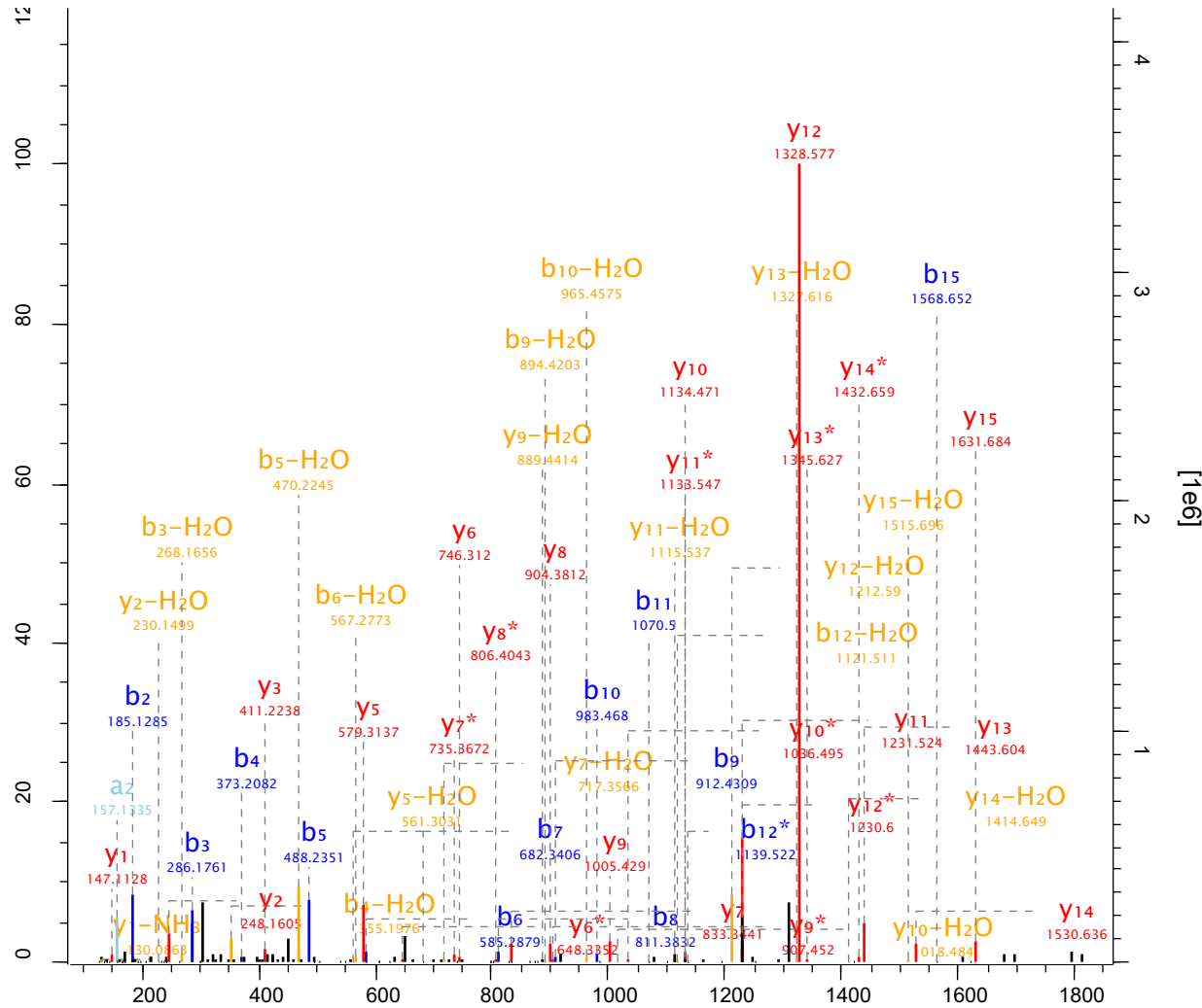
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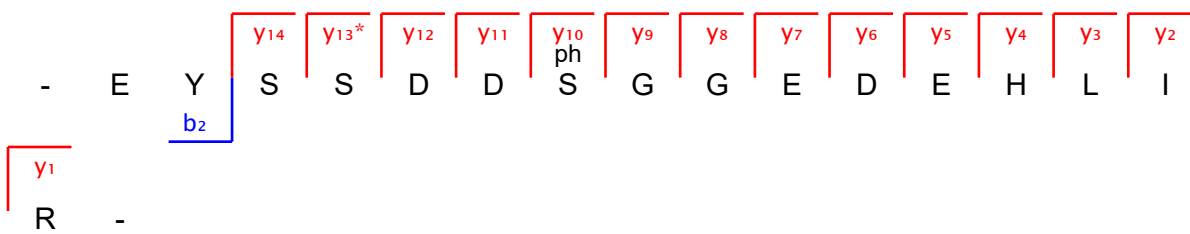
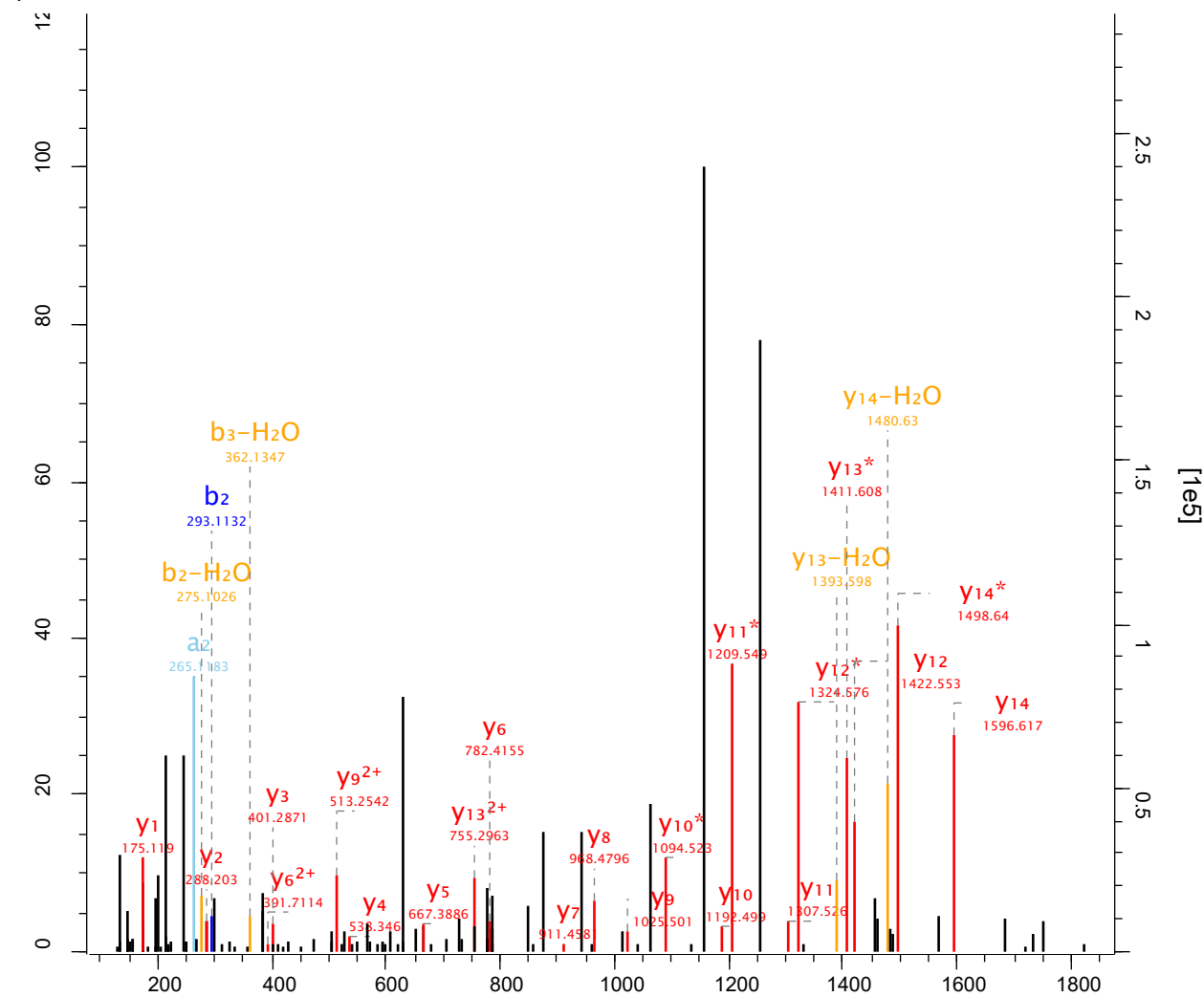
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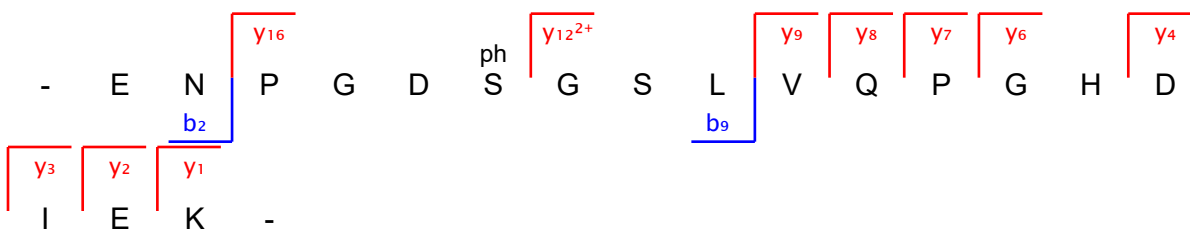
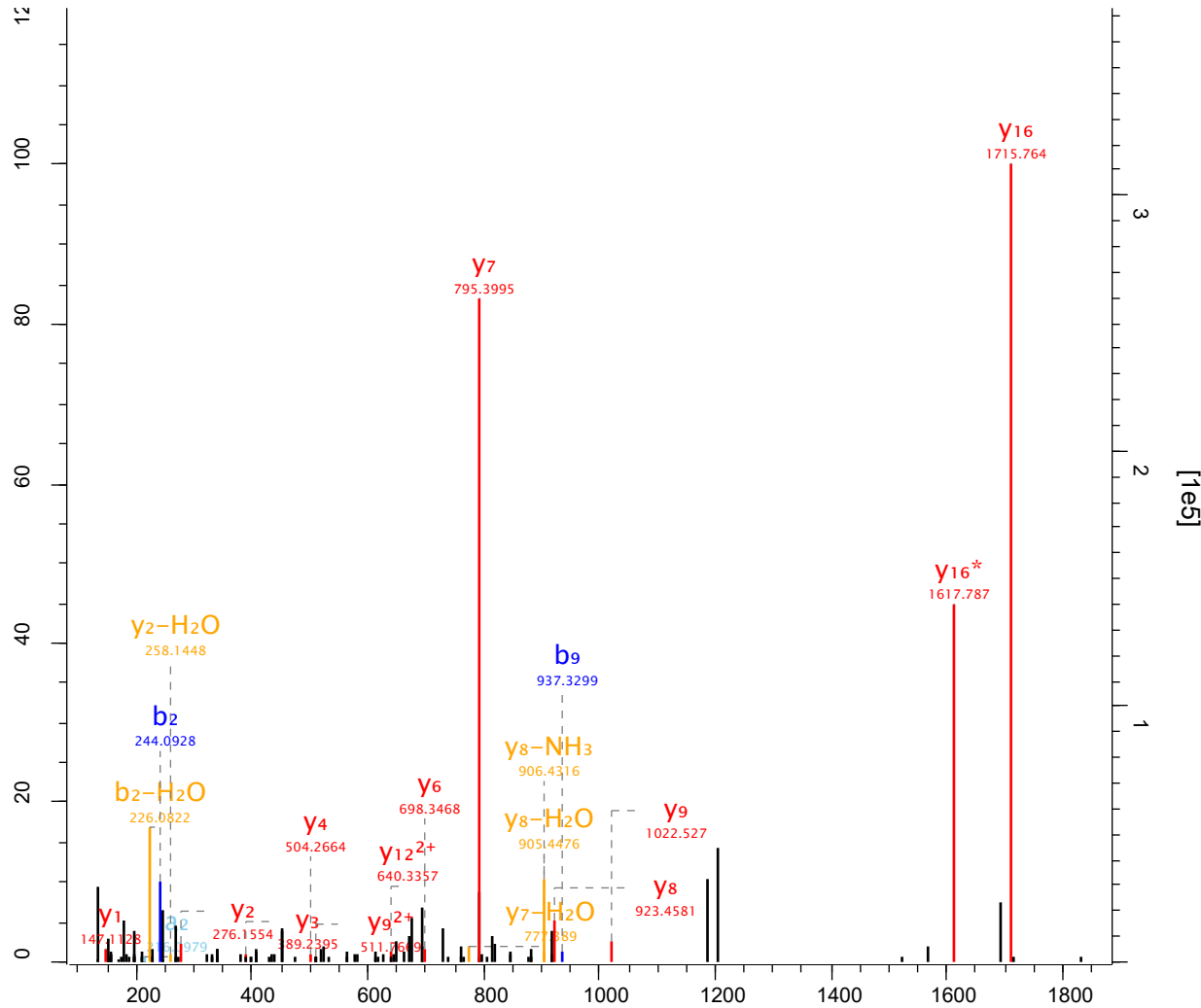
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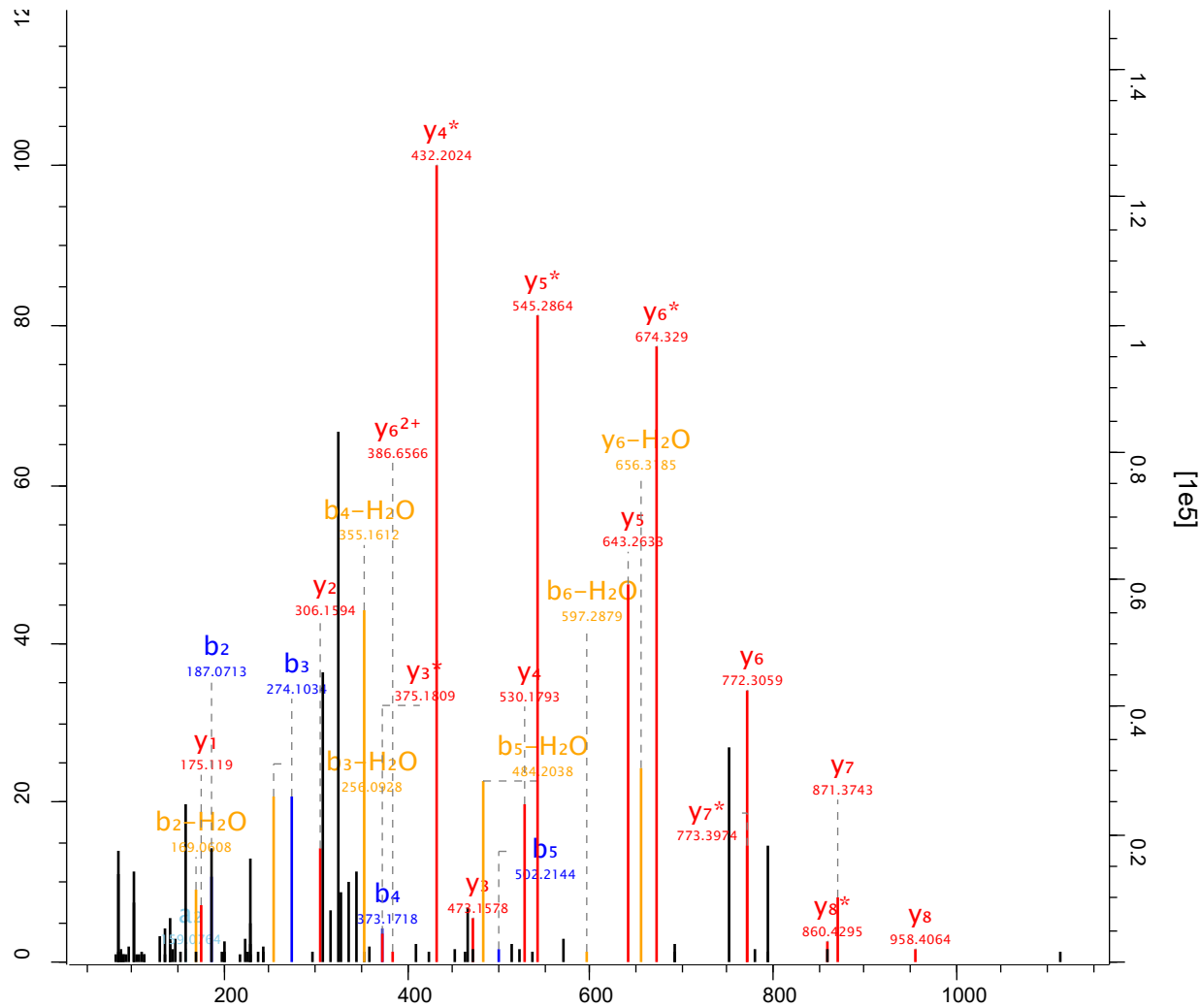
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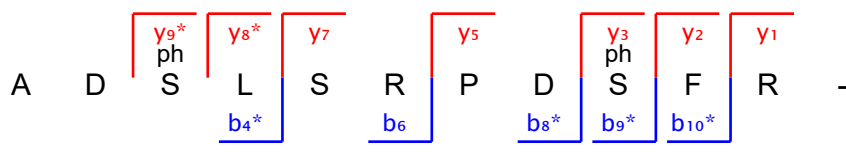
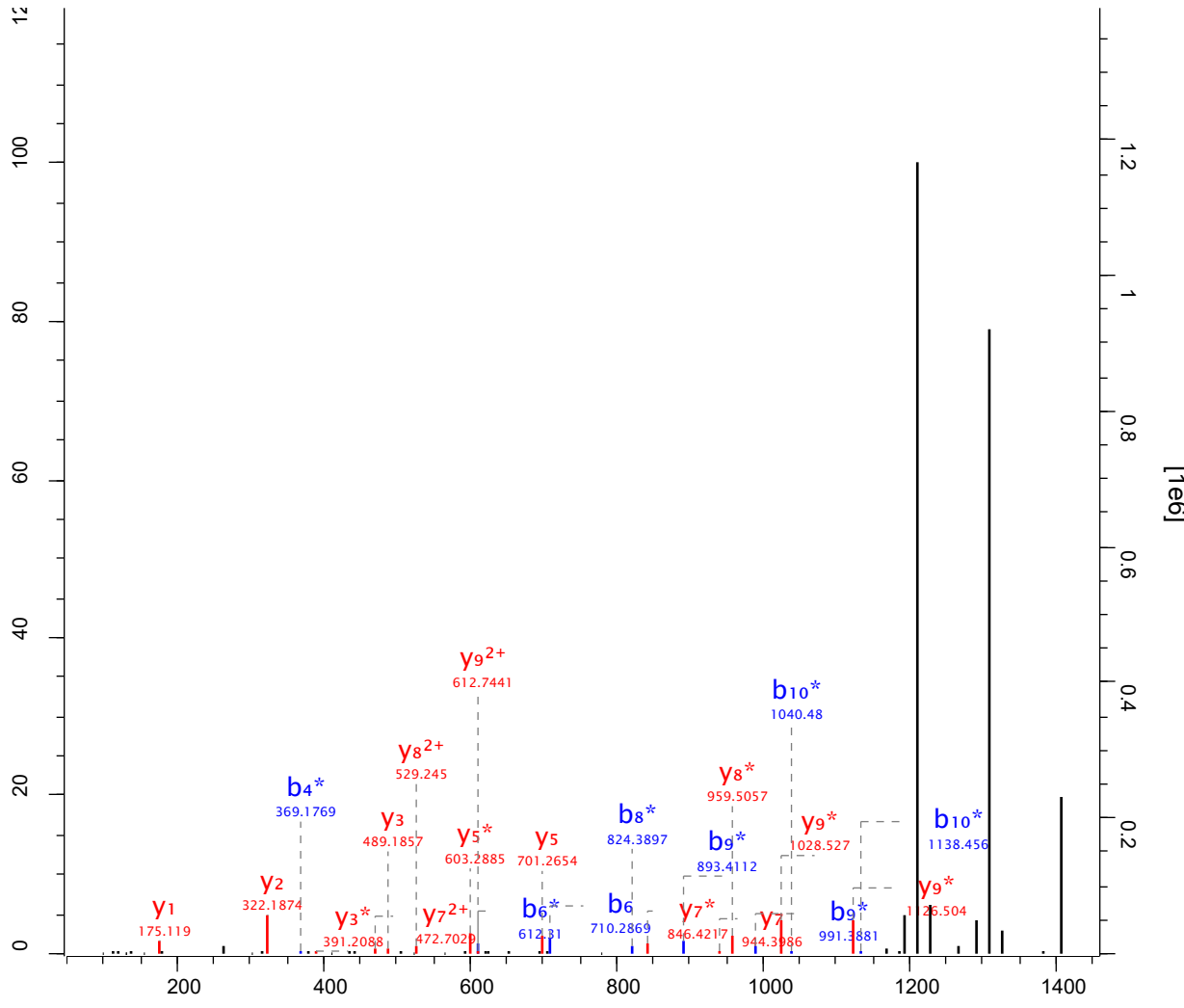


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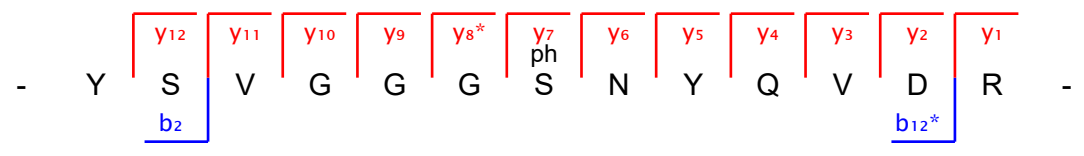
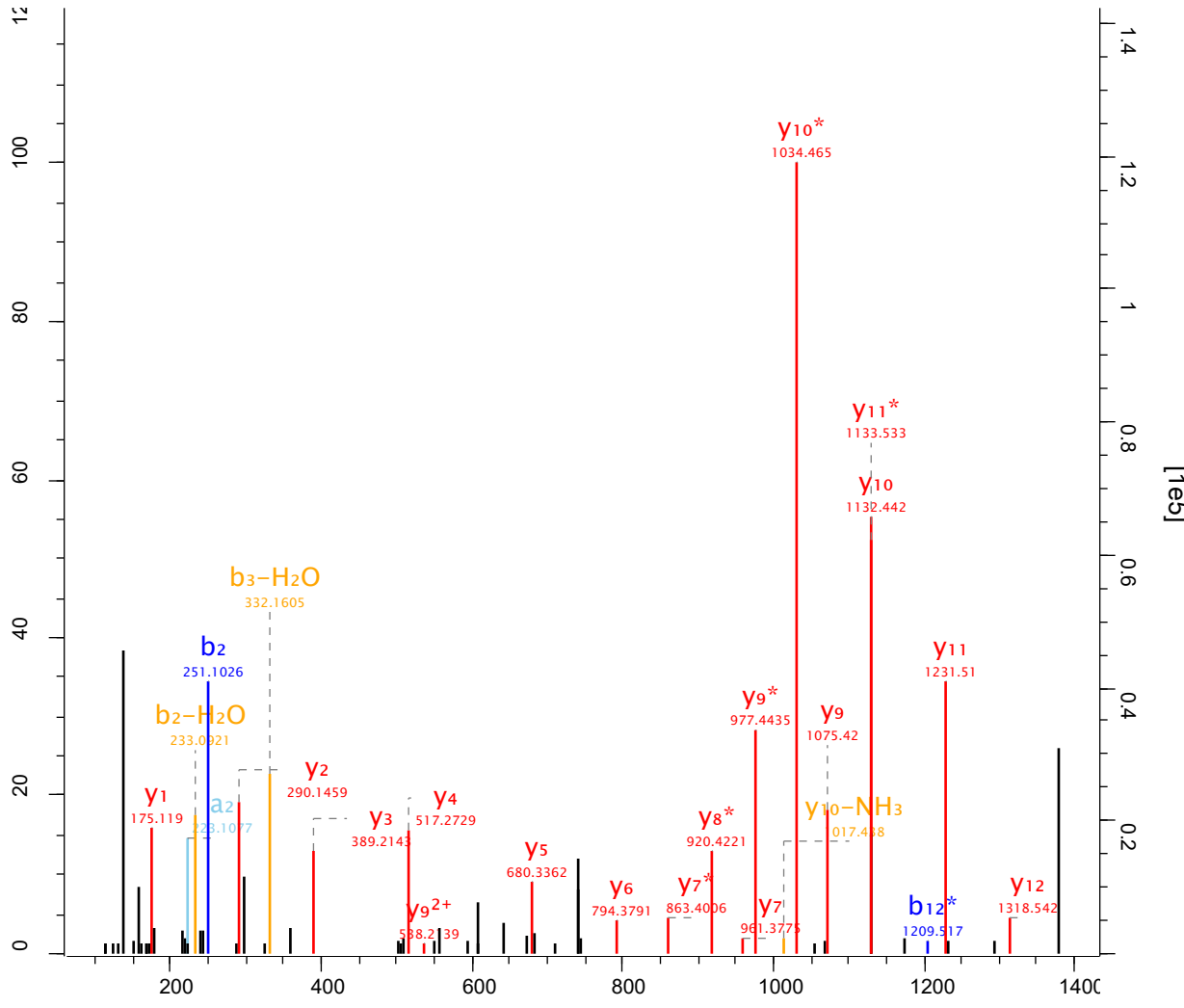
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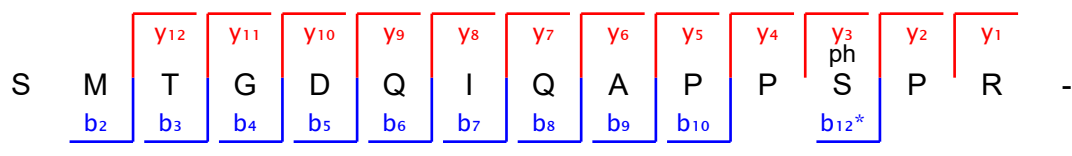
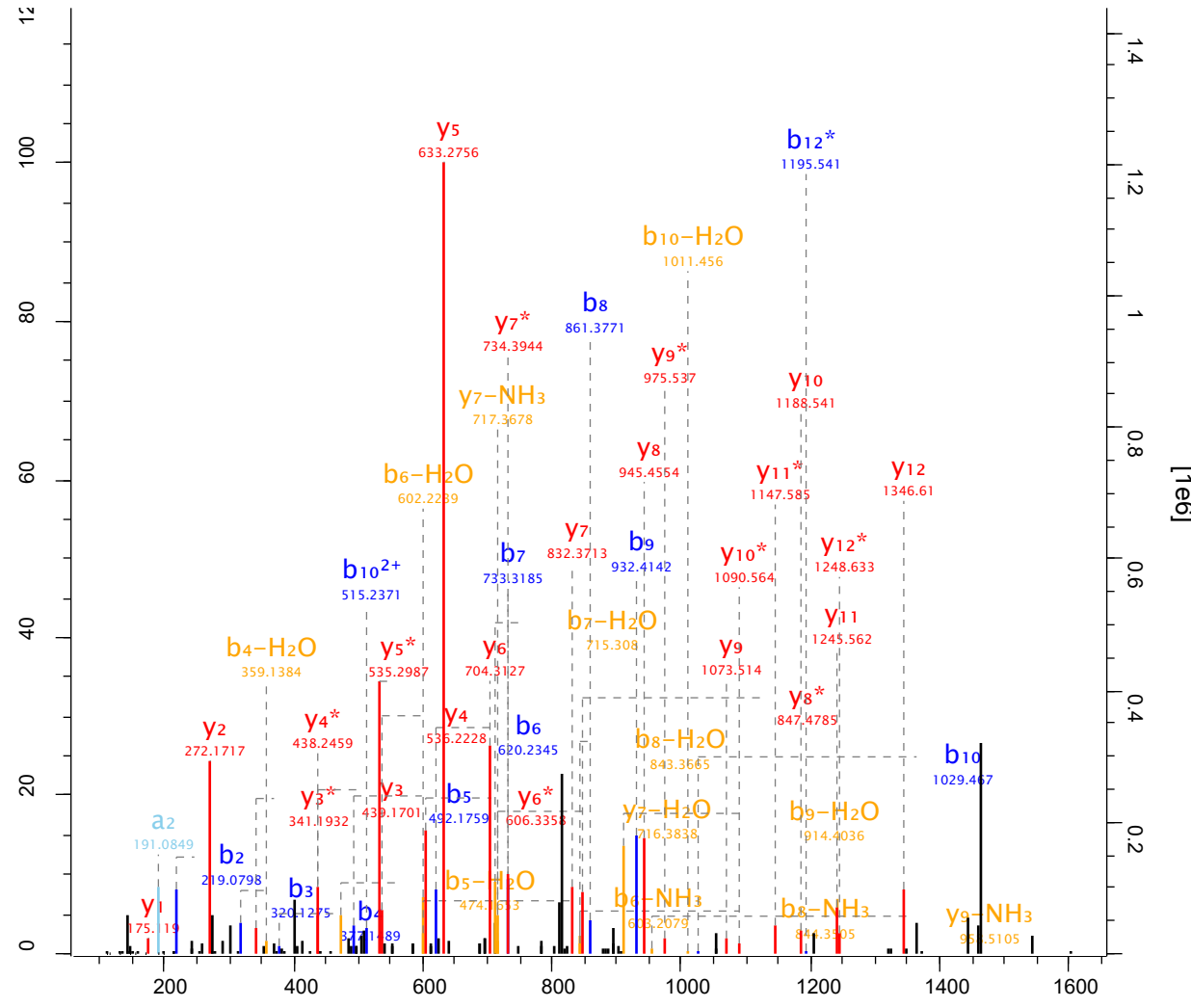
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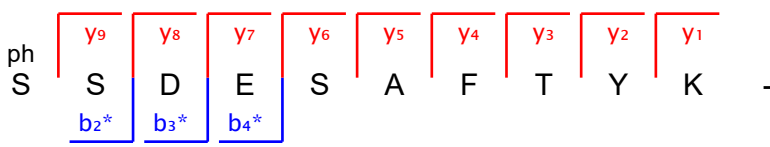
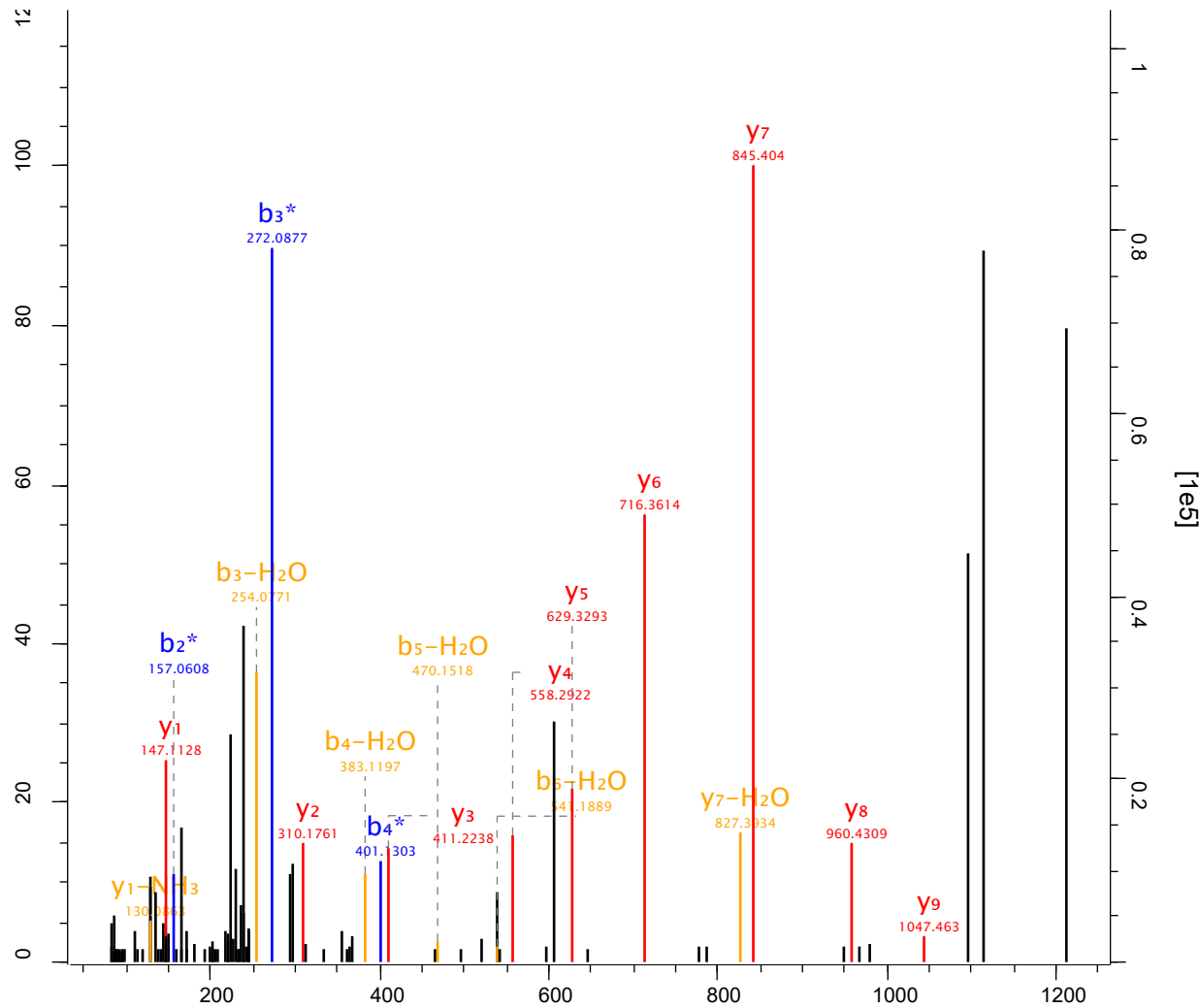
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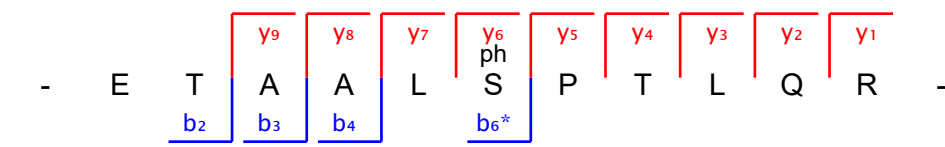
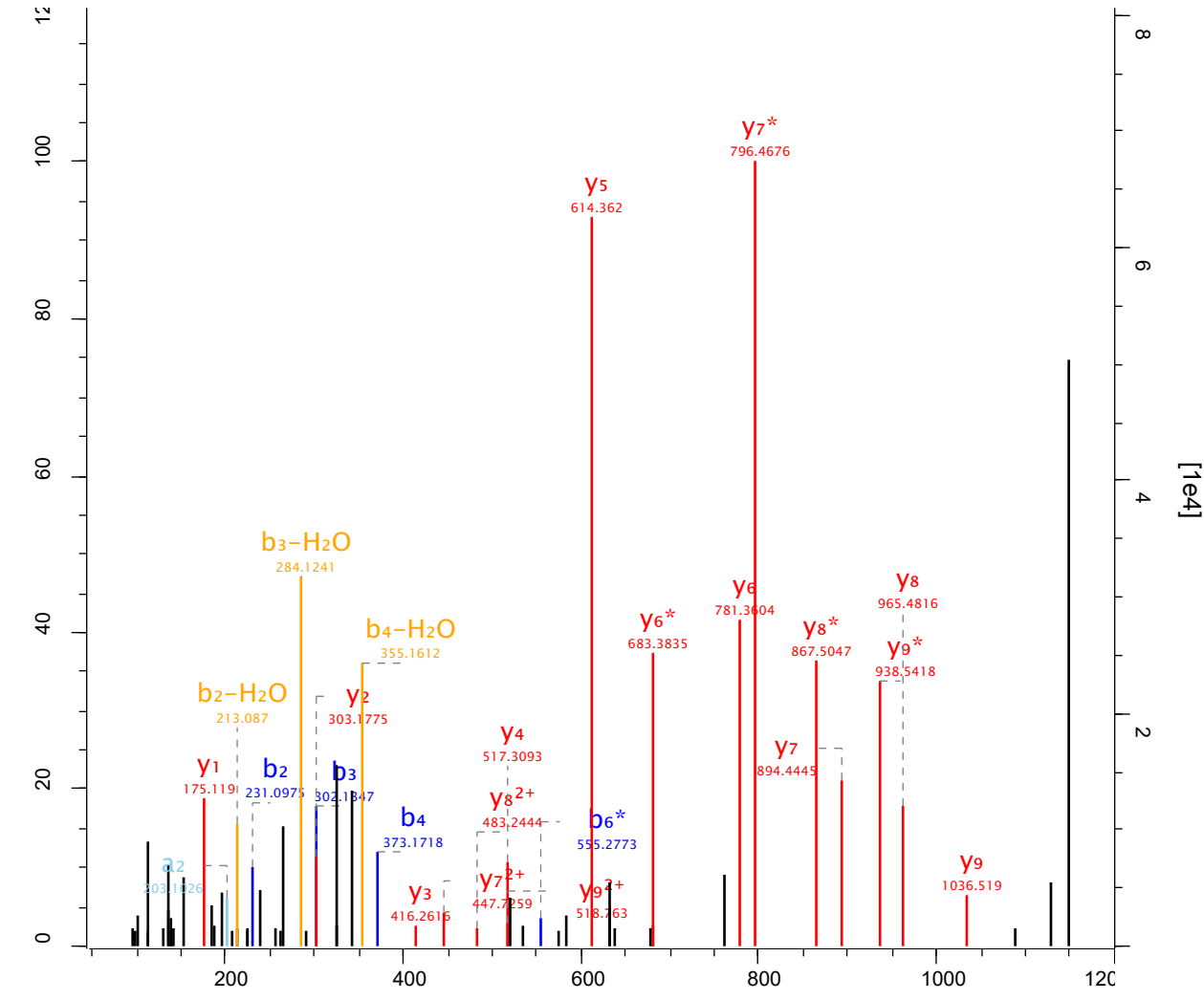
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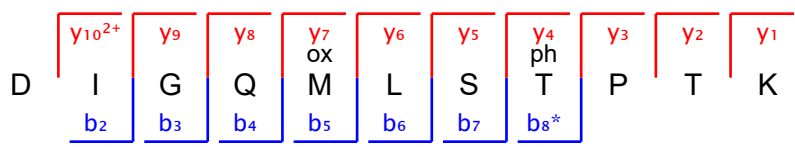
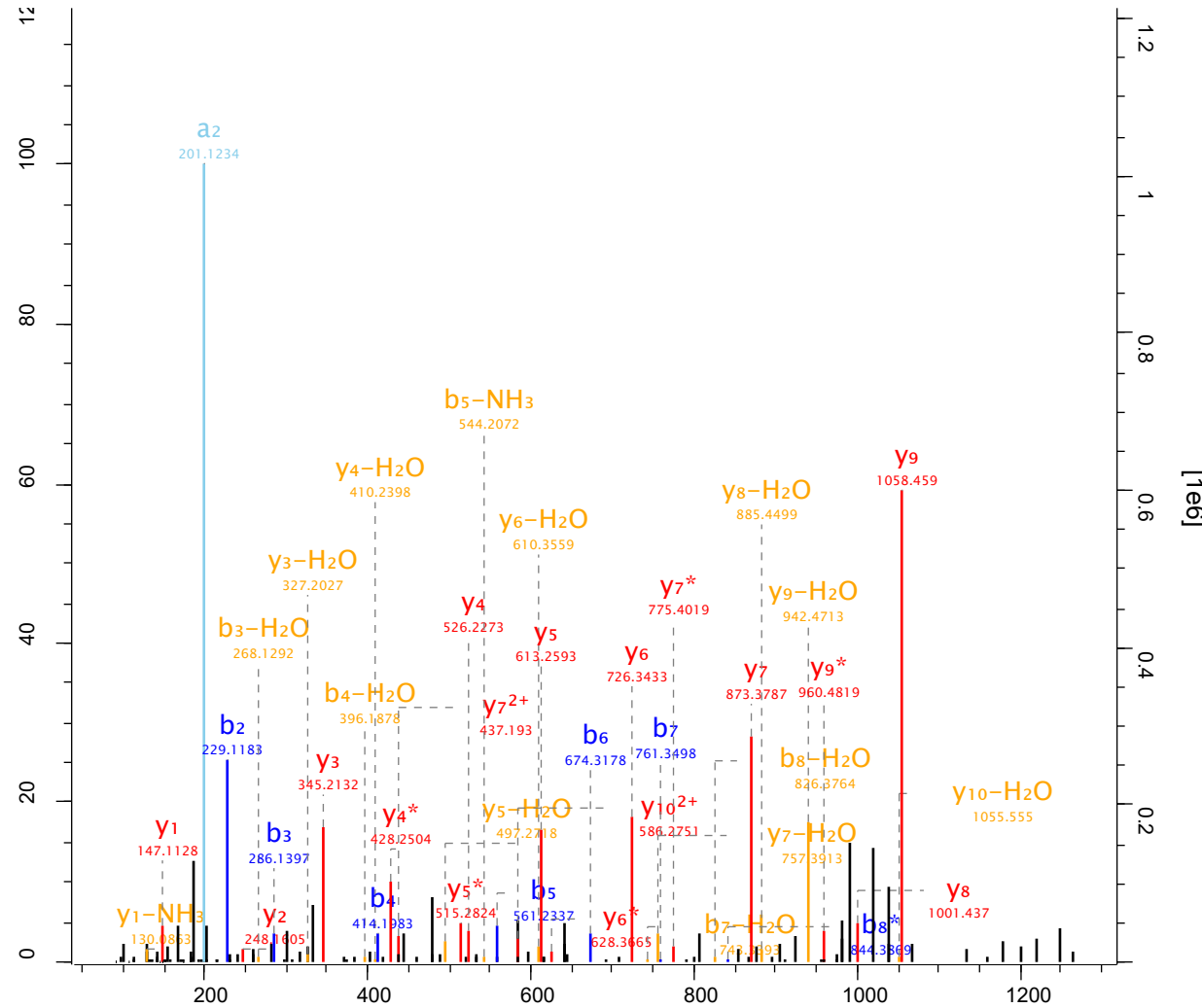
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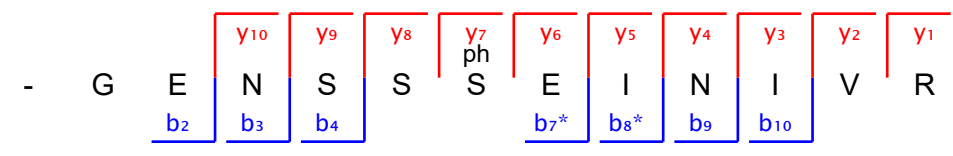
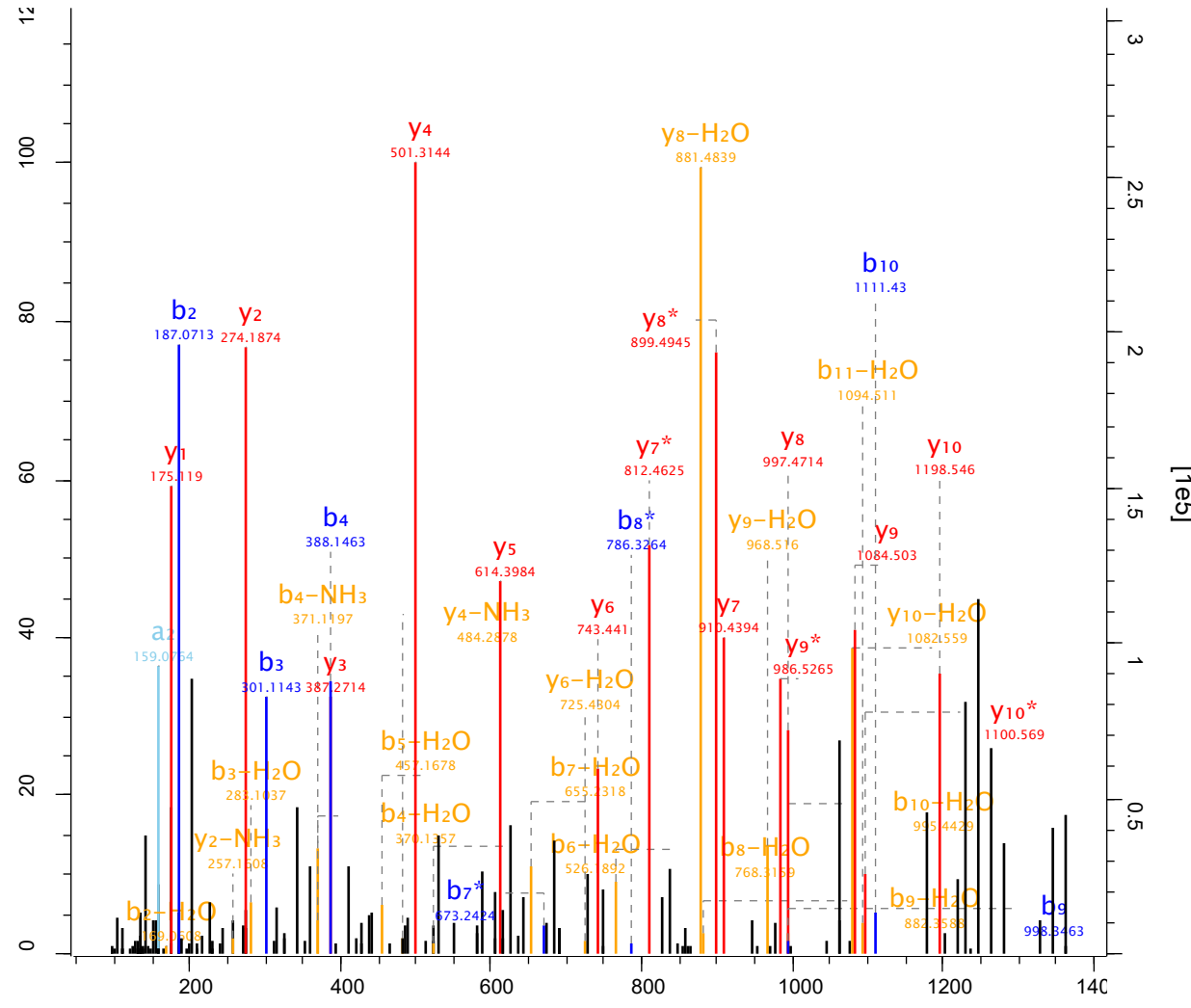
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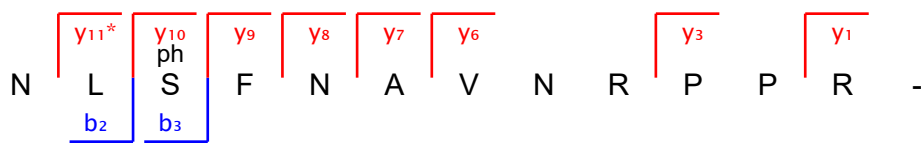
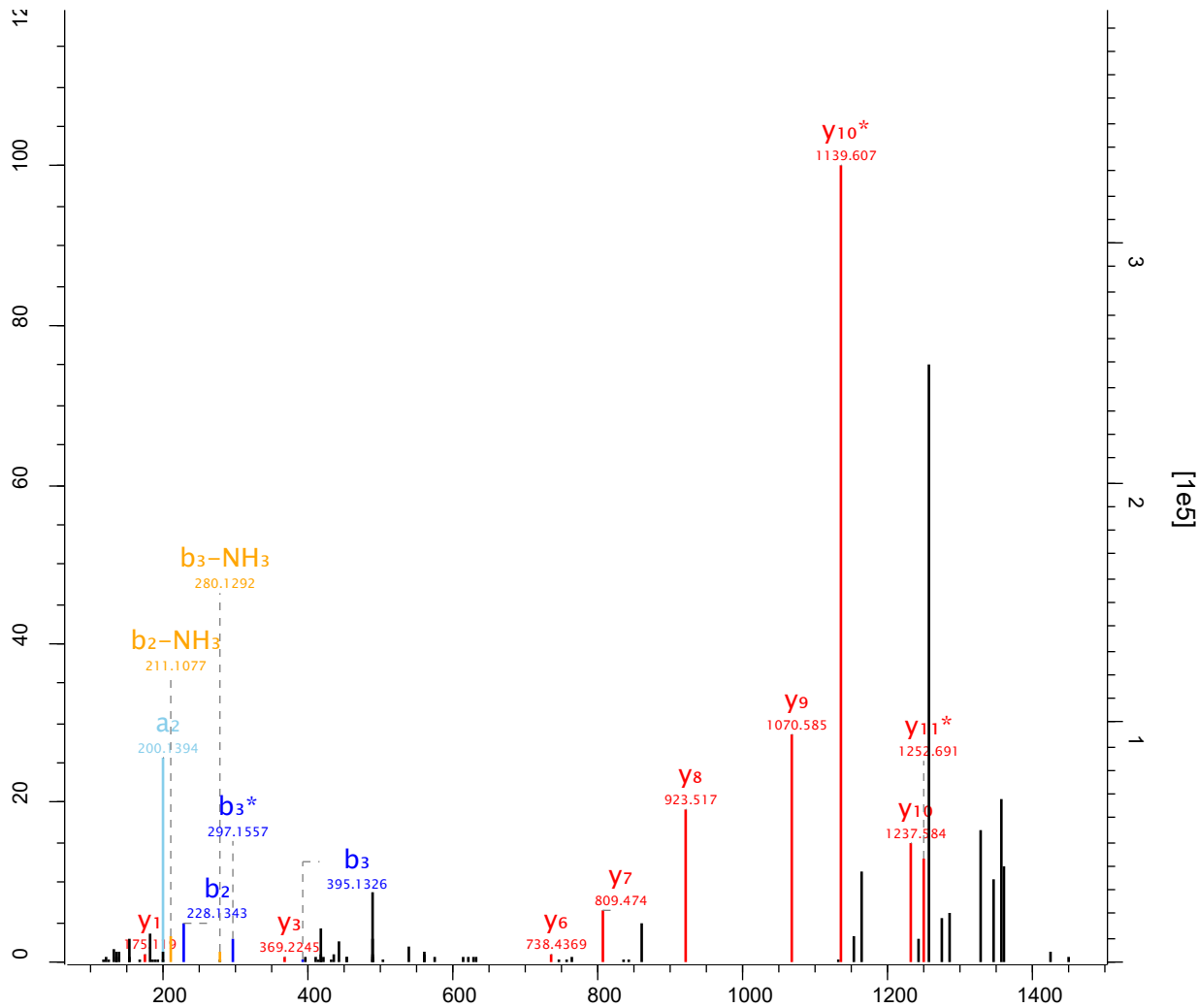
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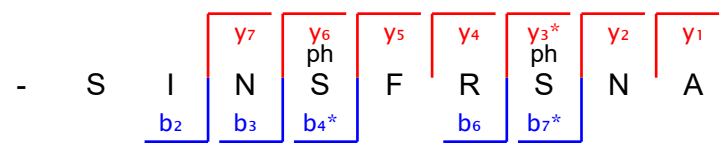
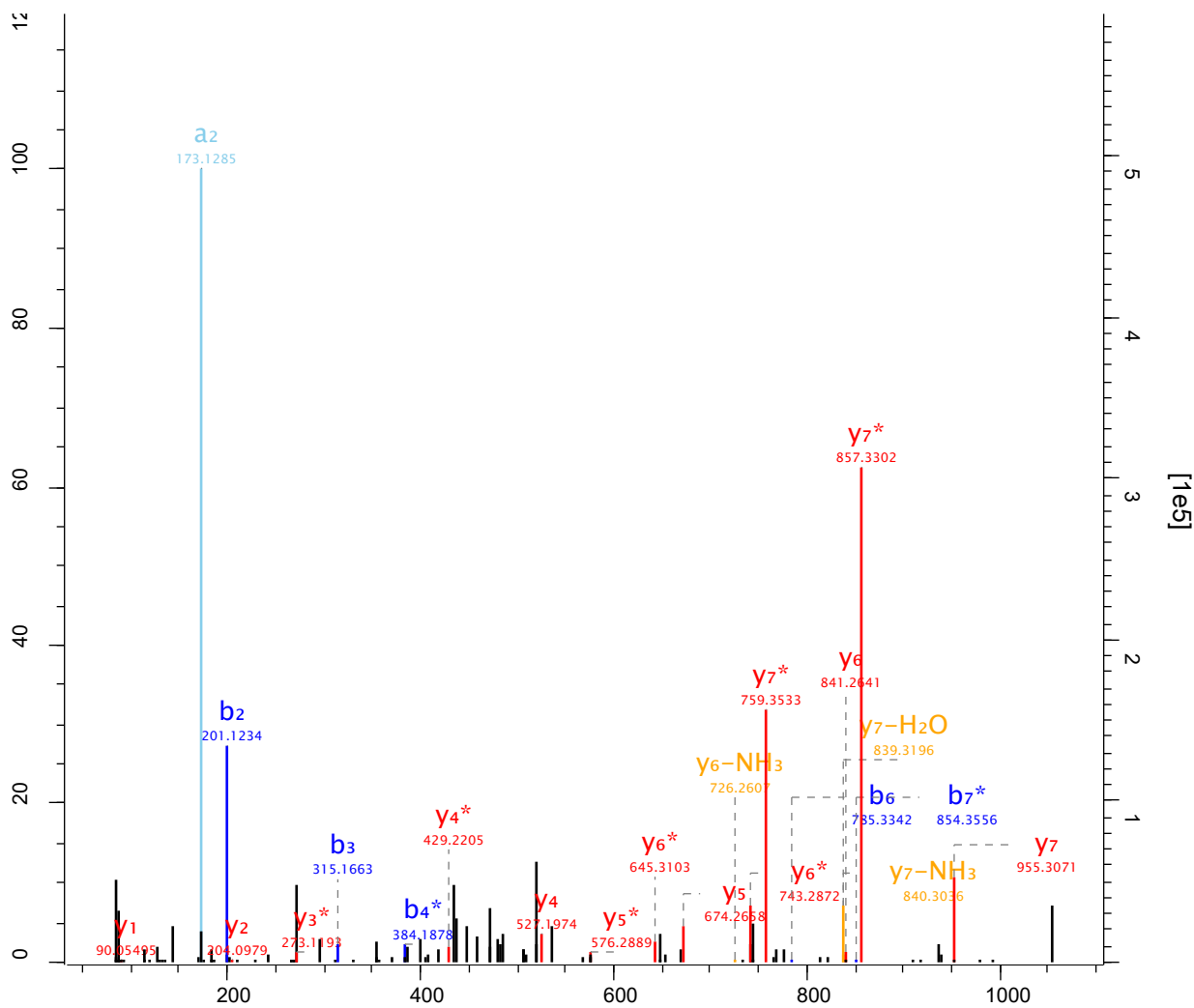


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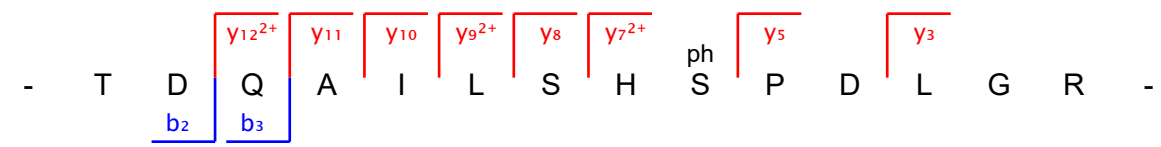
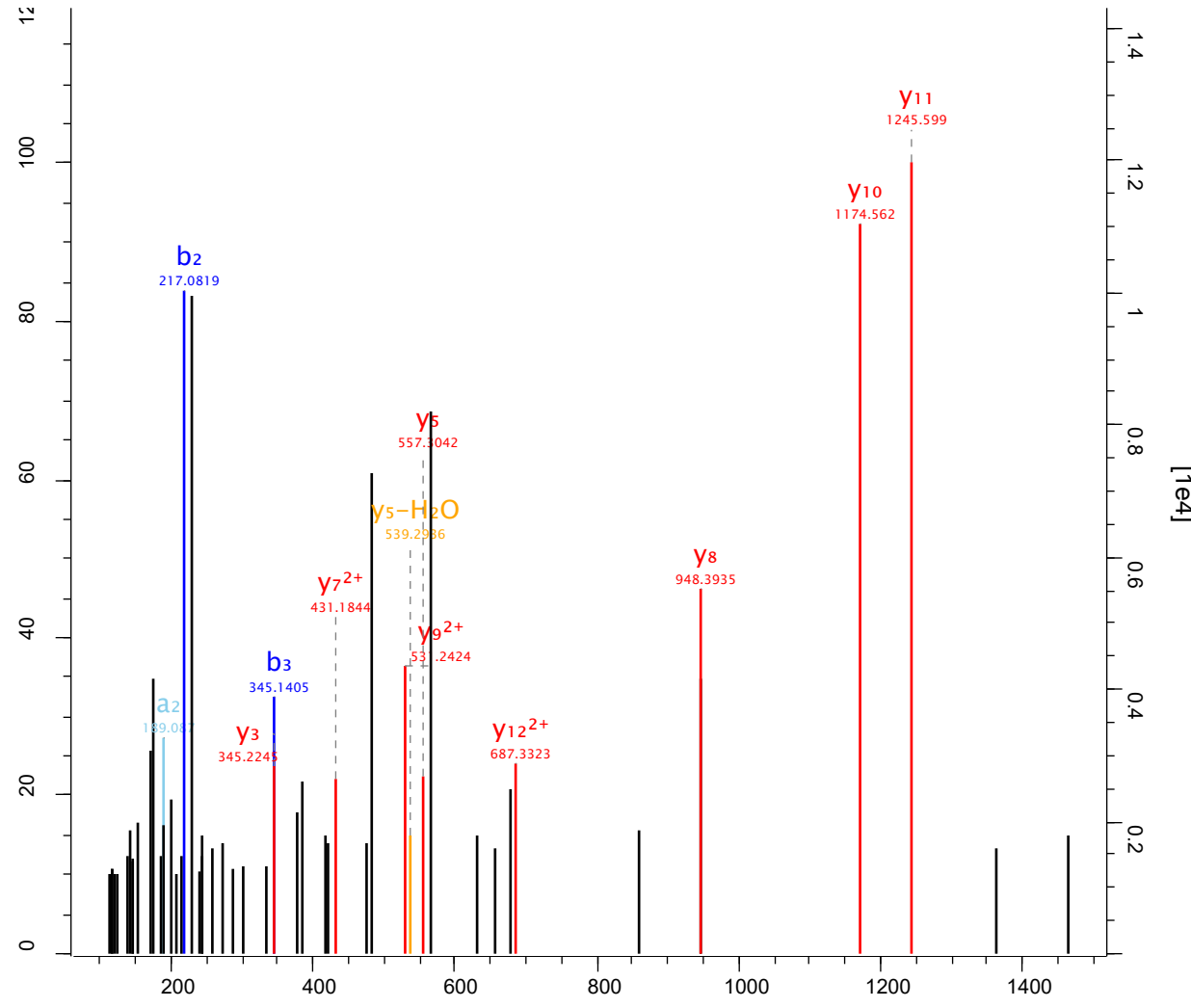


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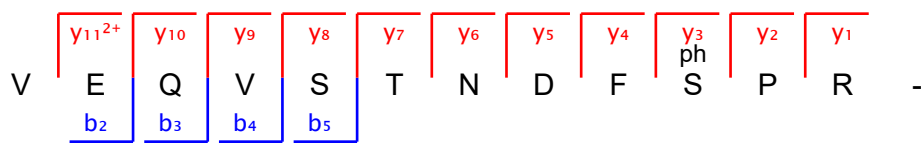
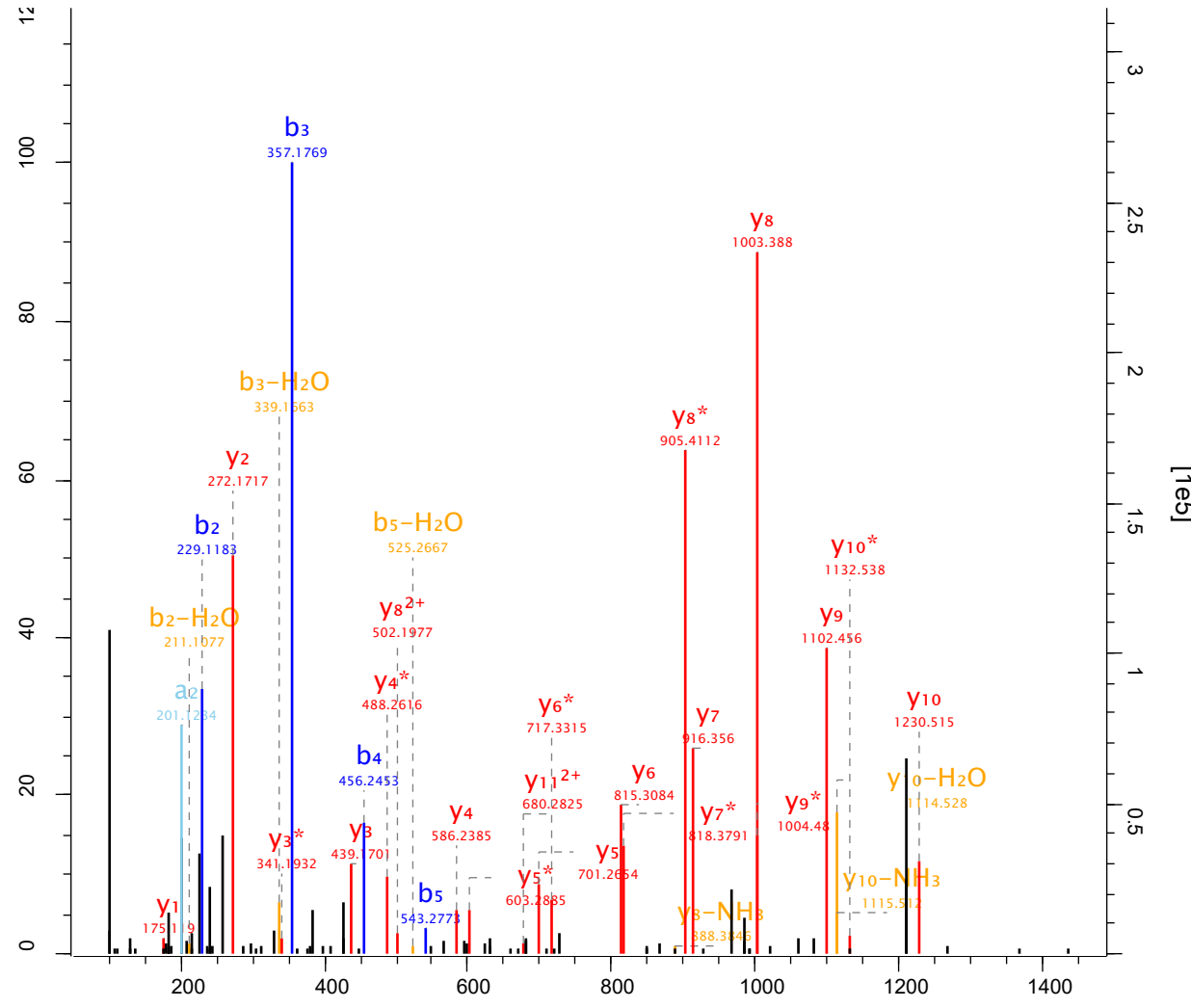




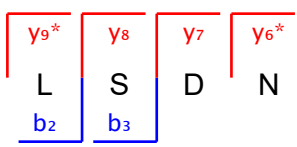
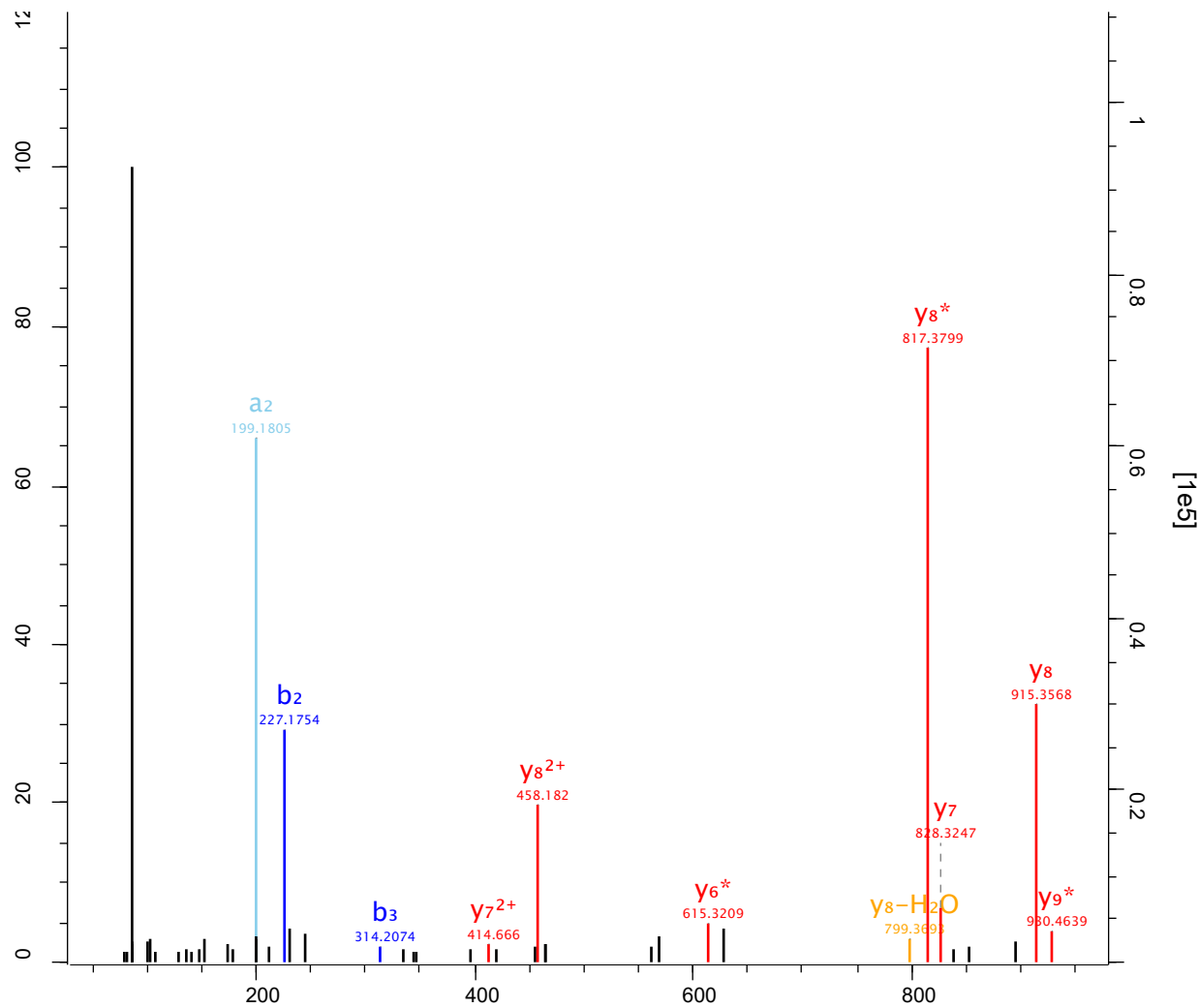
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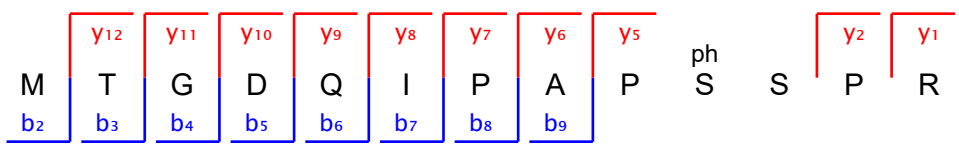
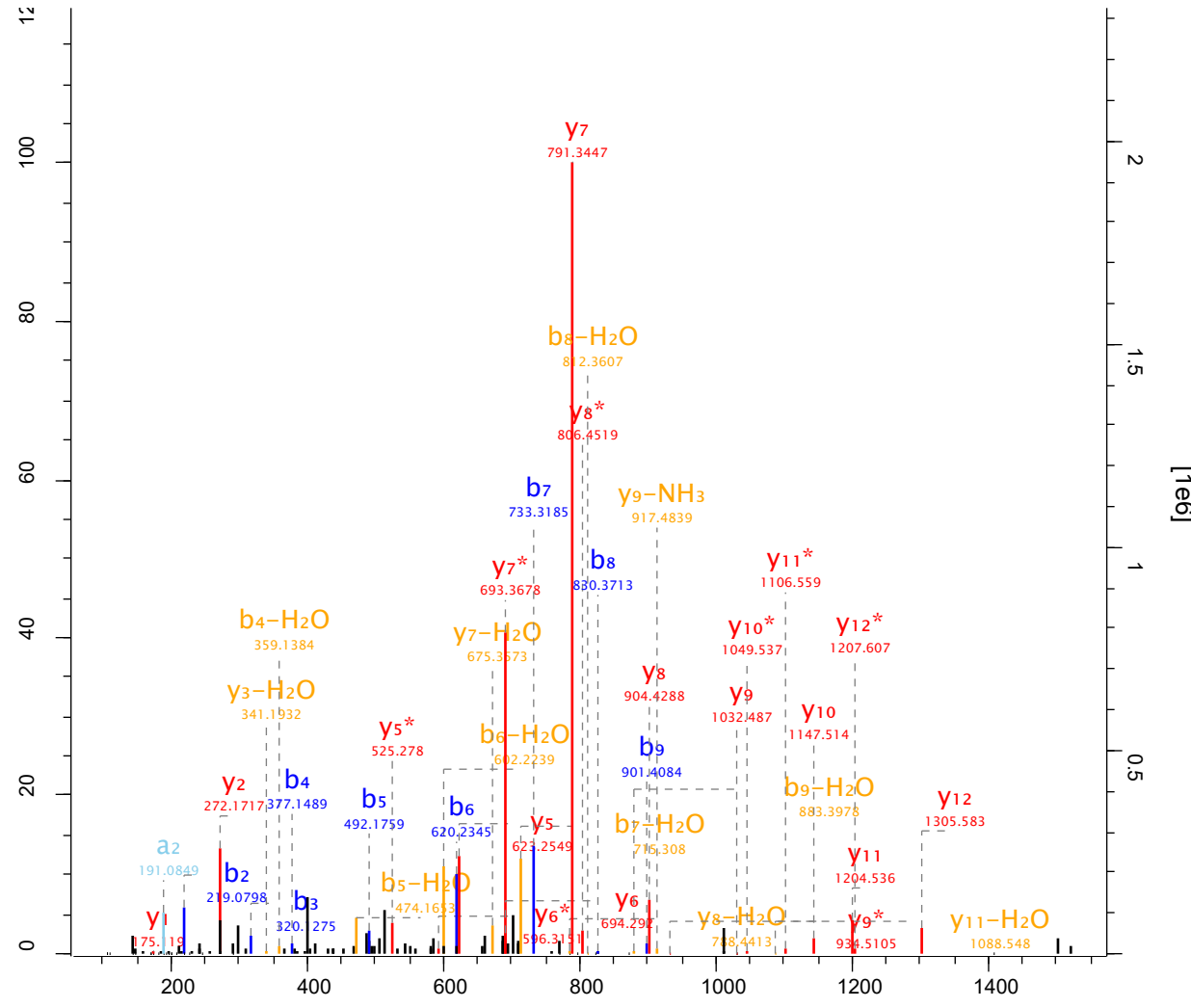


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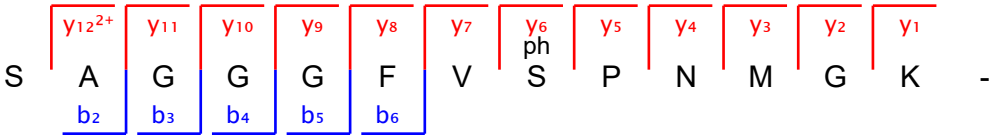
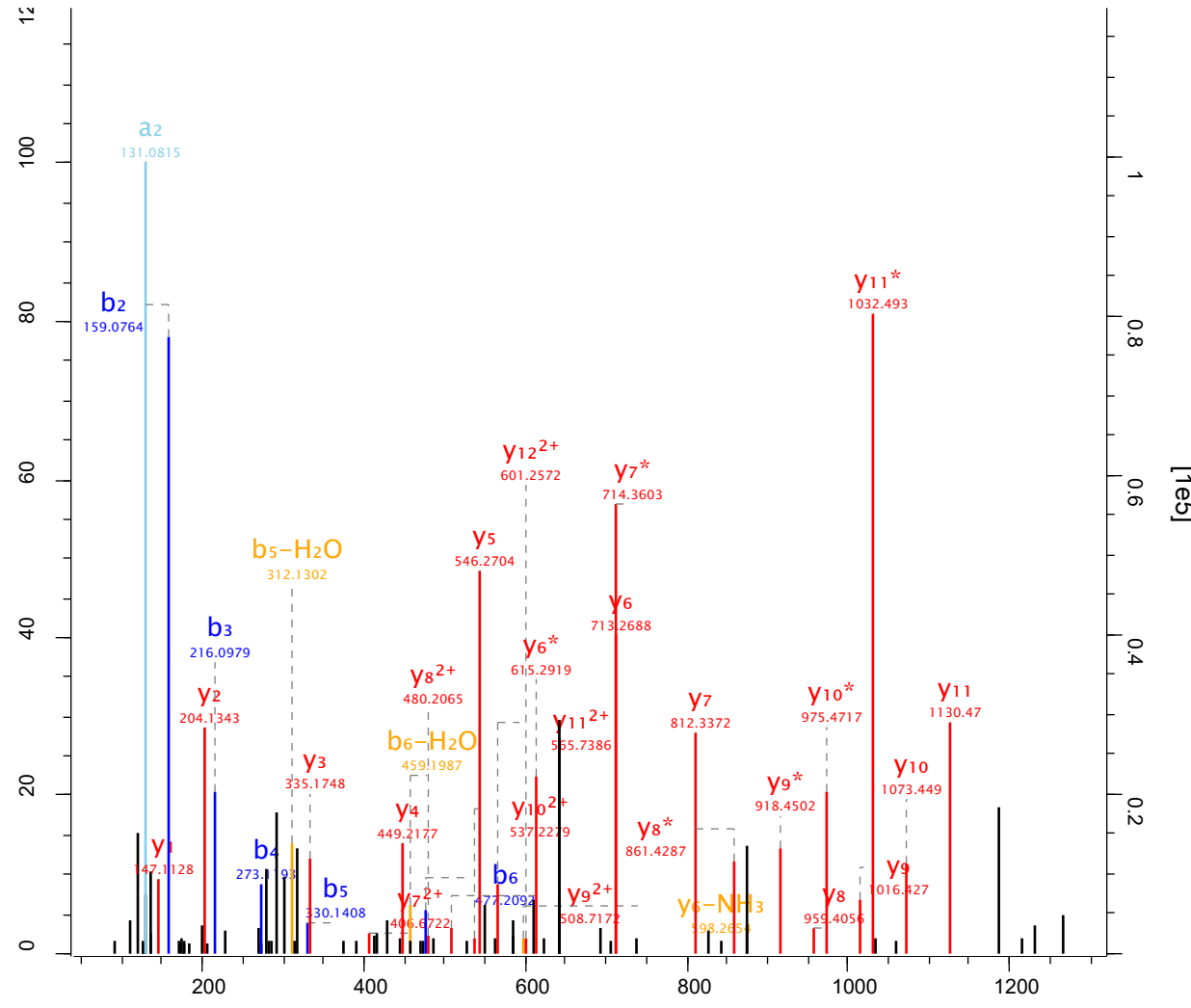


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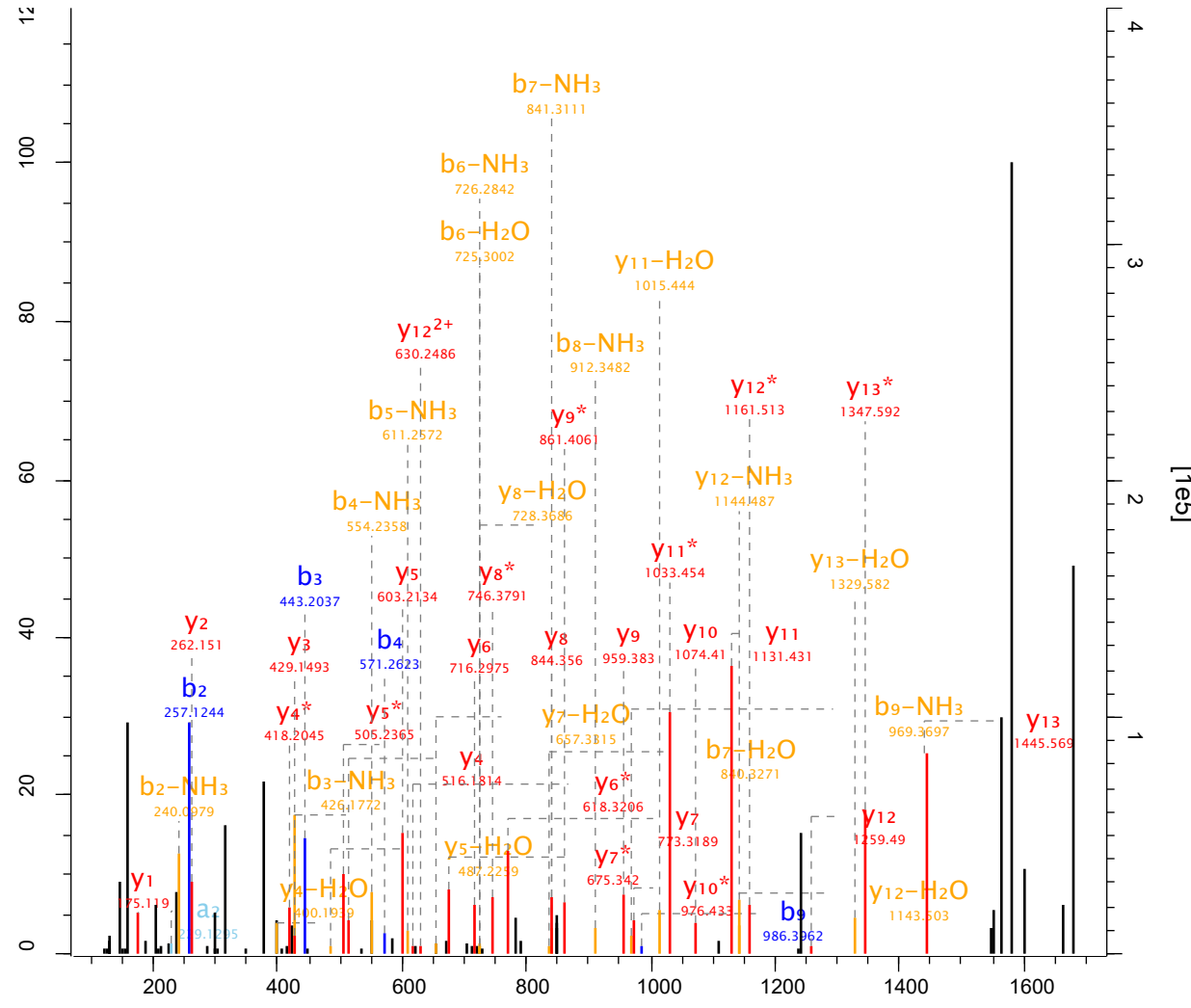
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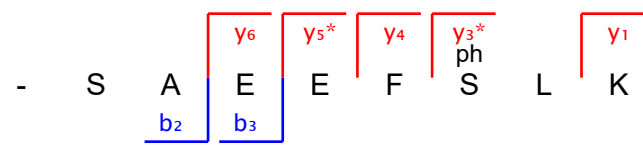
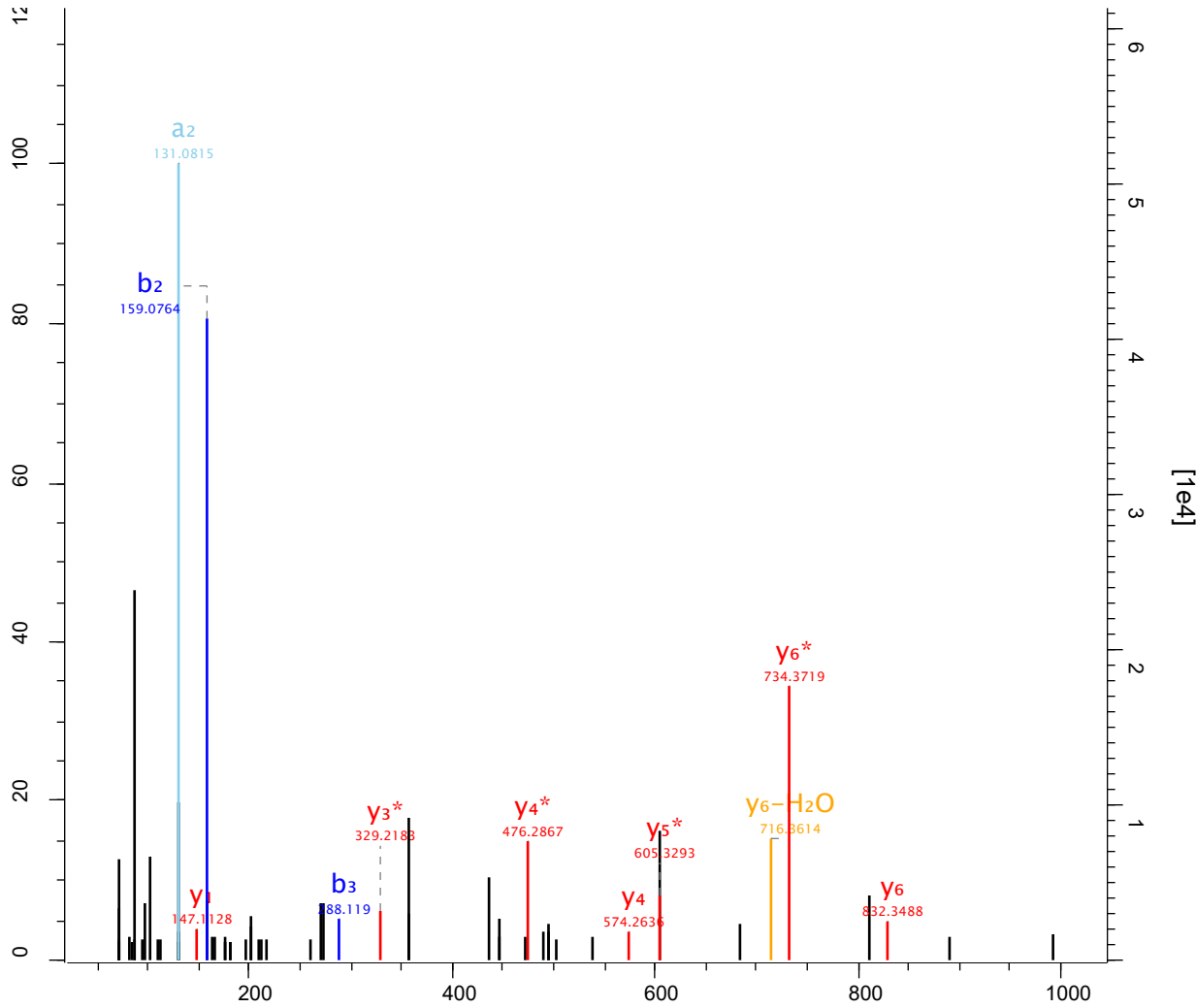
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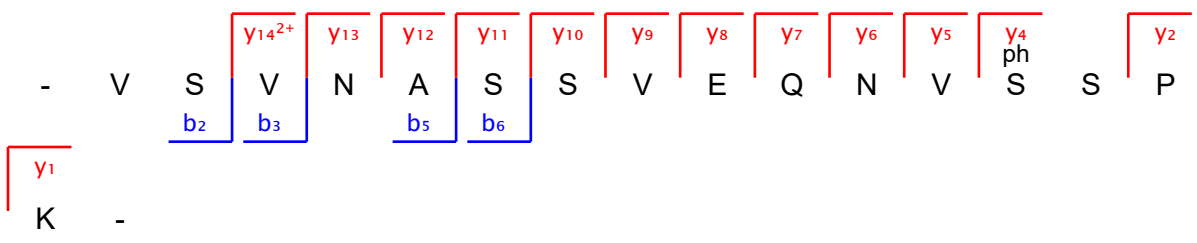
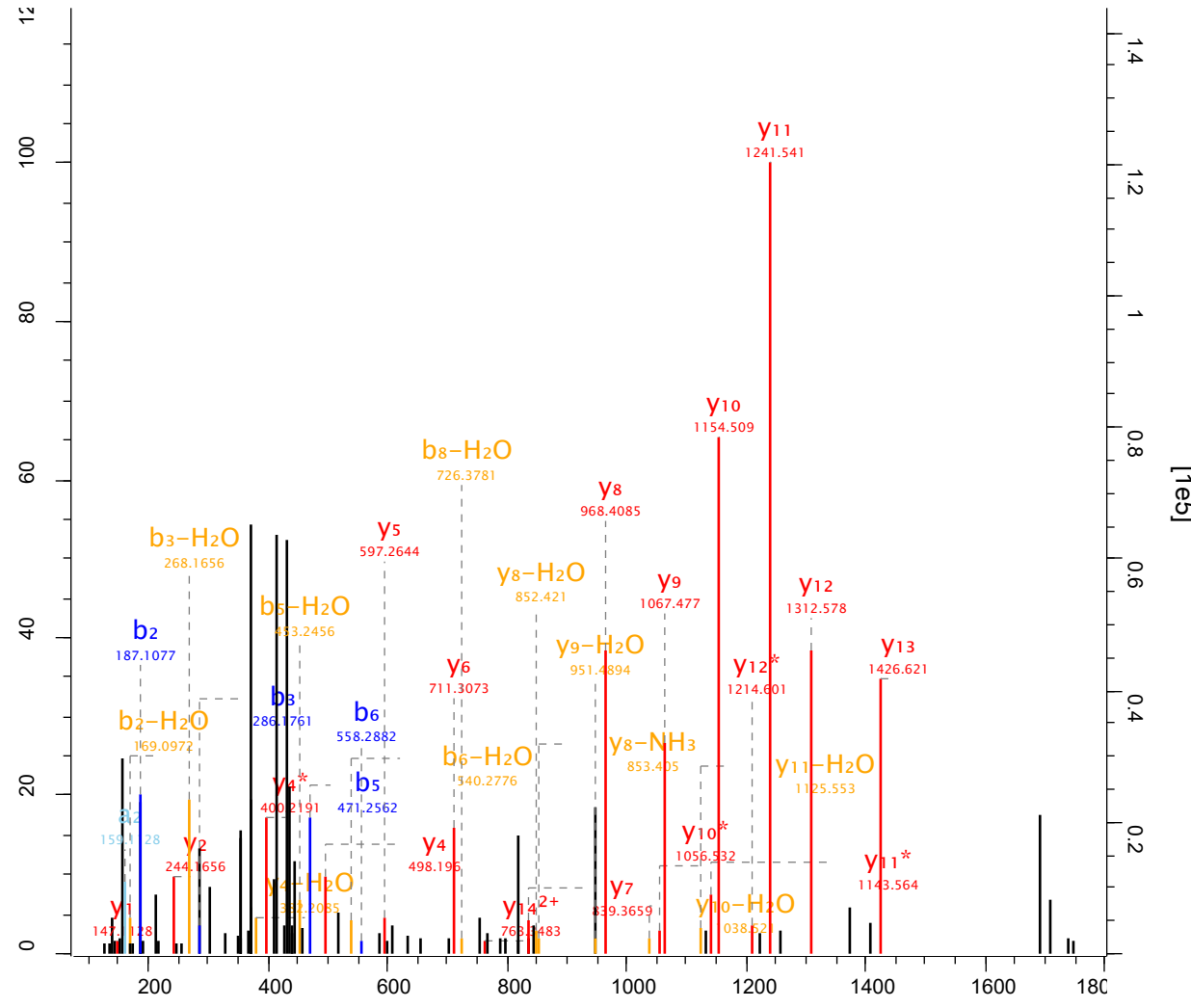
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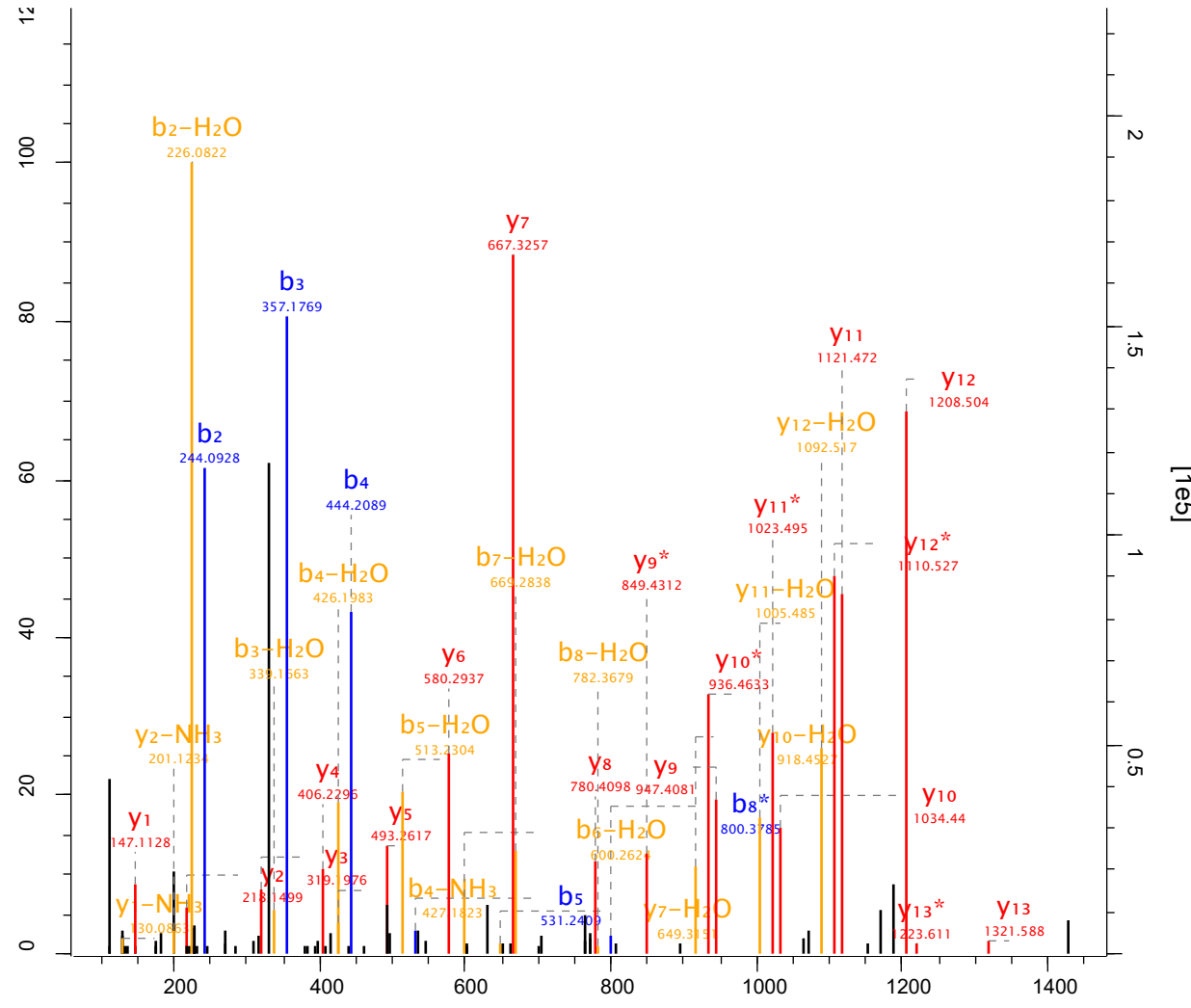
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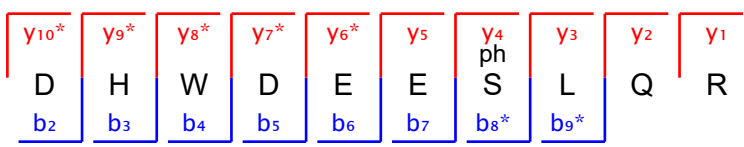
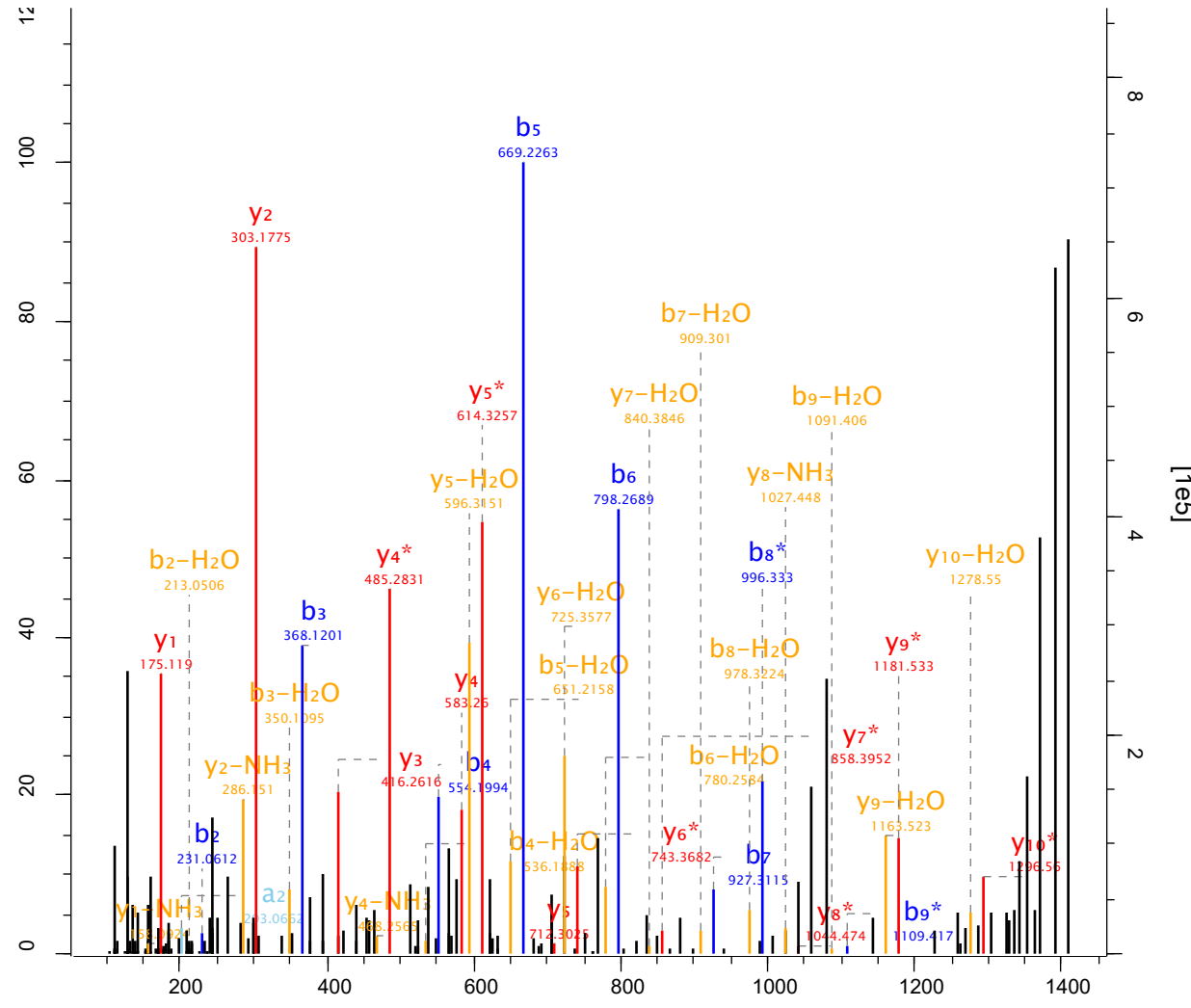
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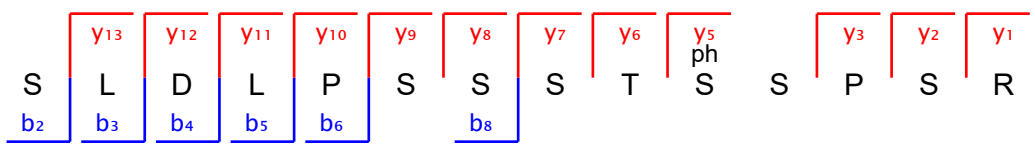
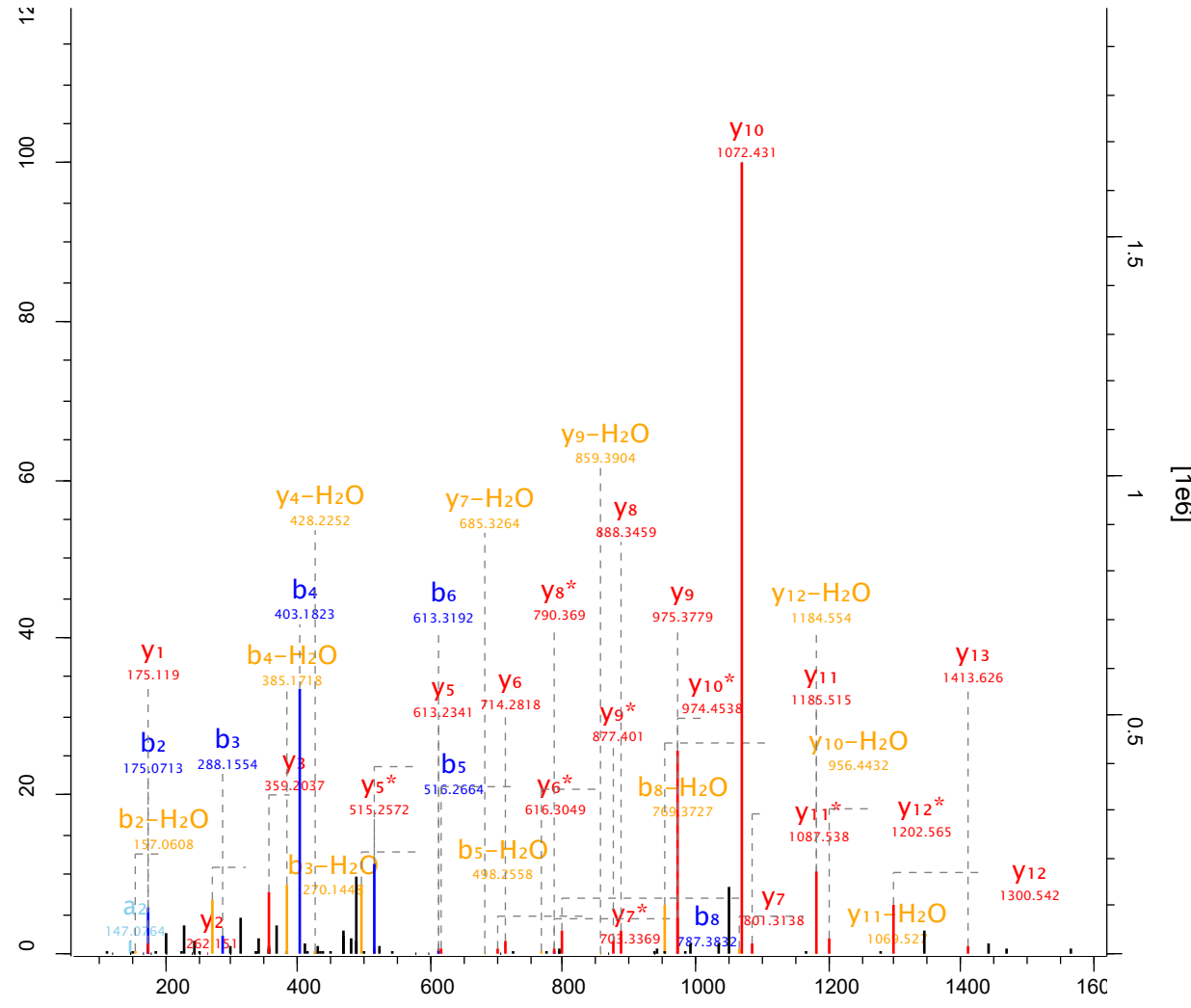
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b2 b3 b4 b5 b8\*

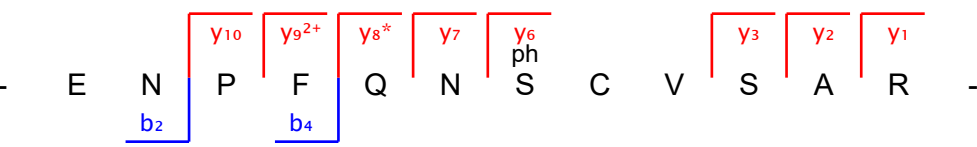
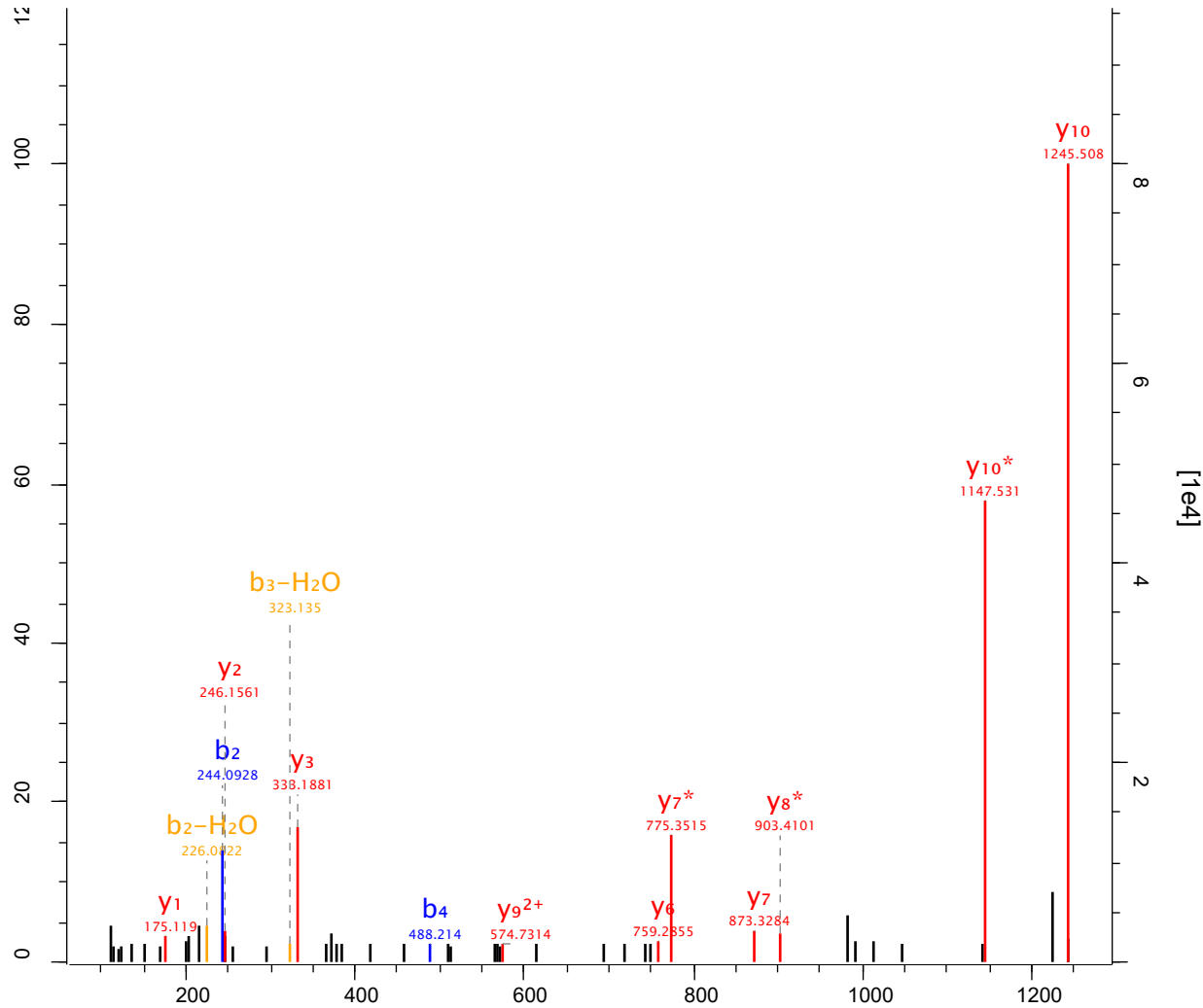
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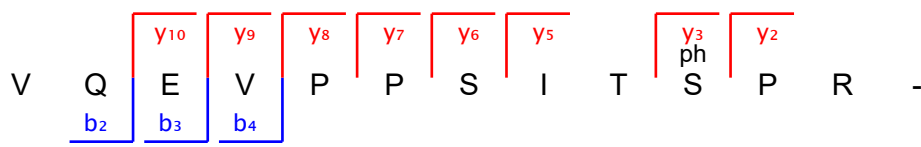
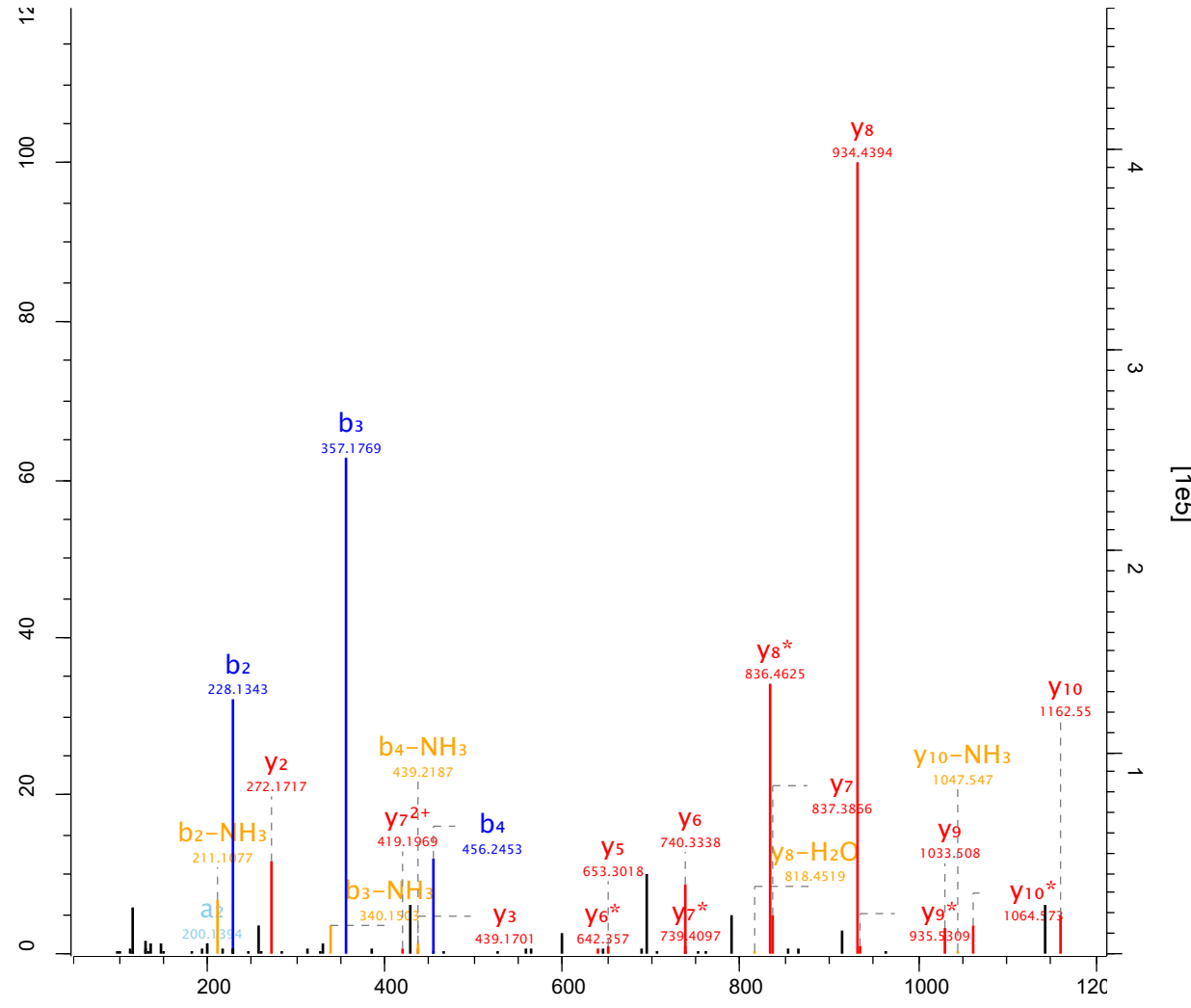
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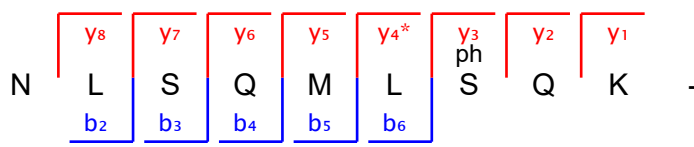
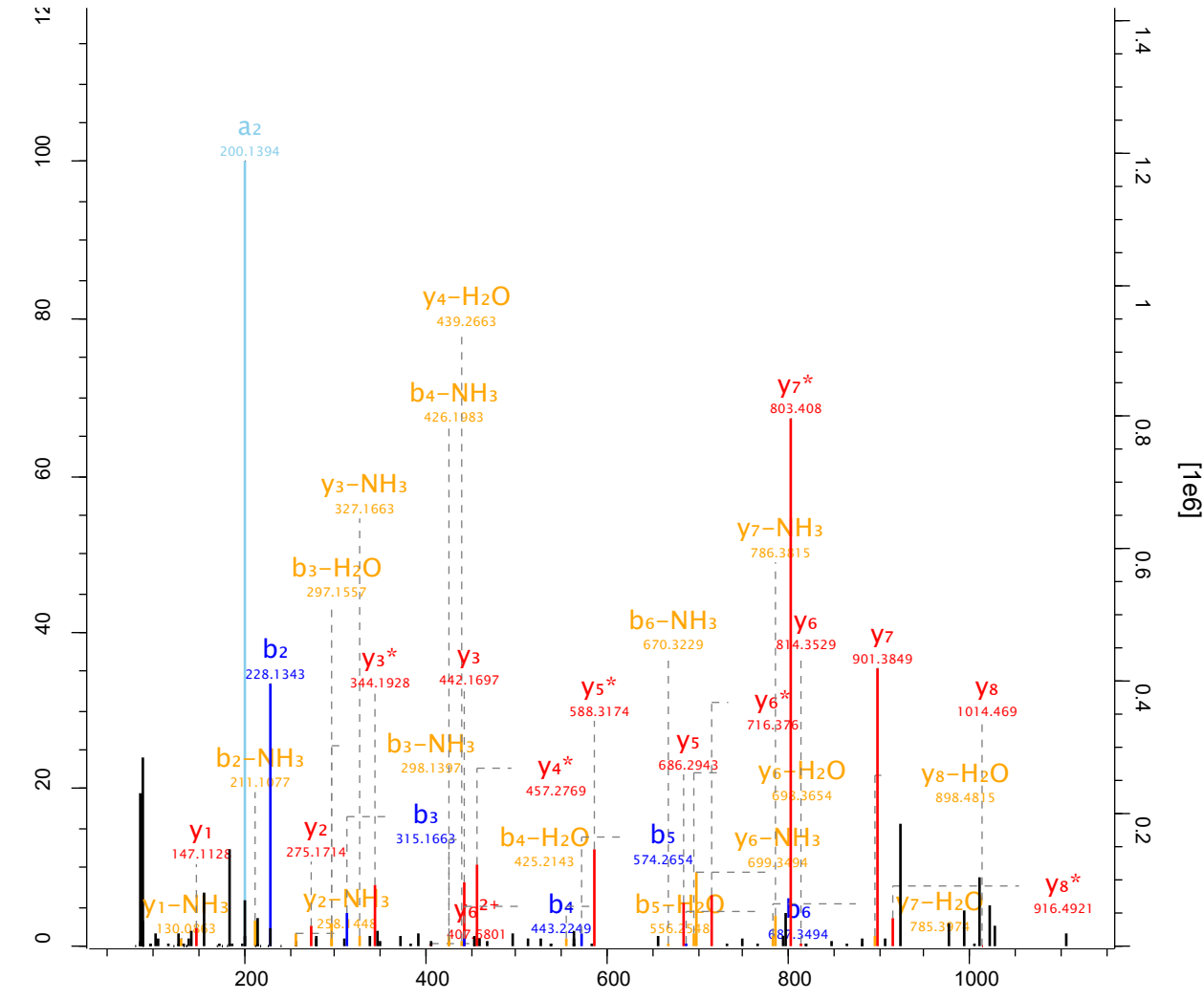
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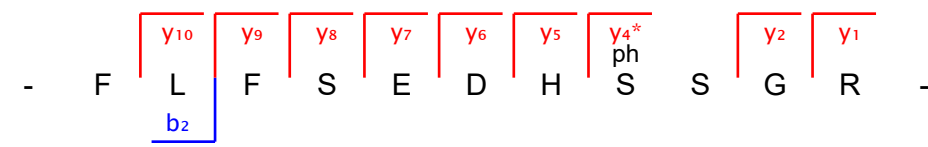
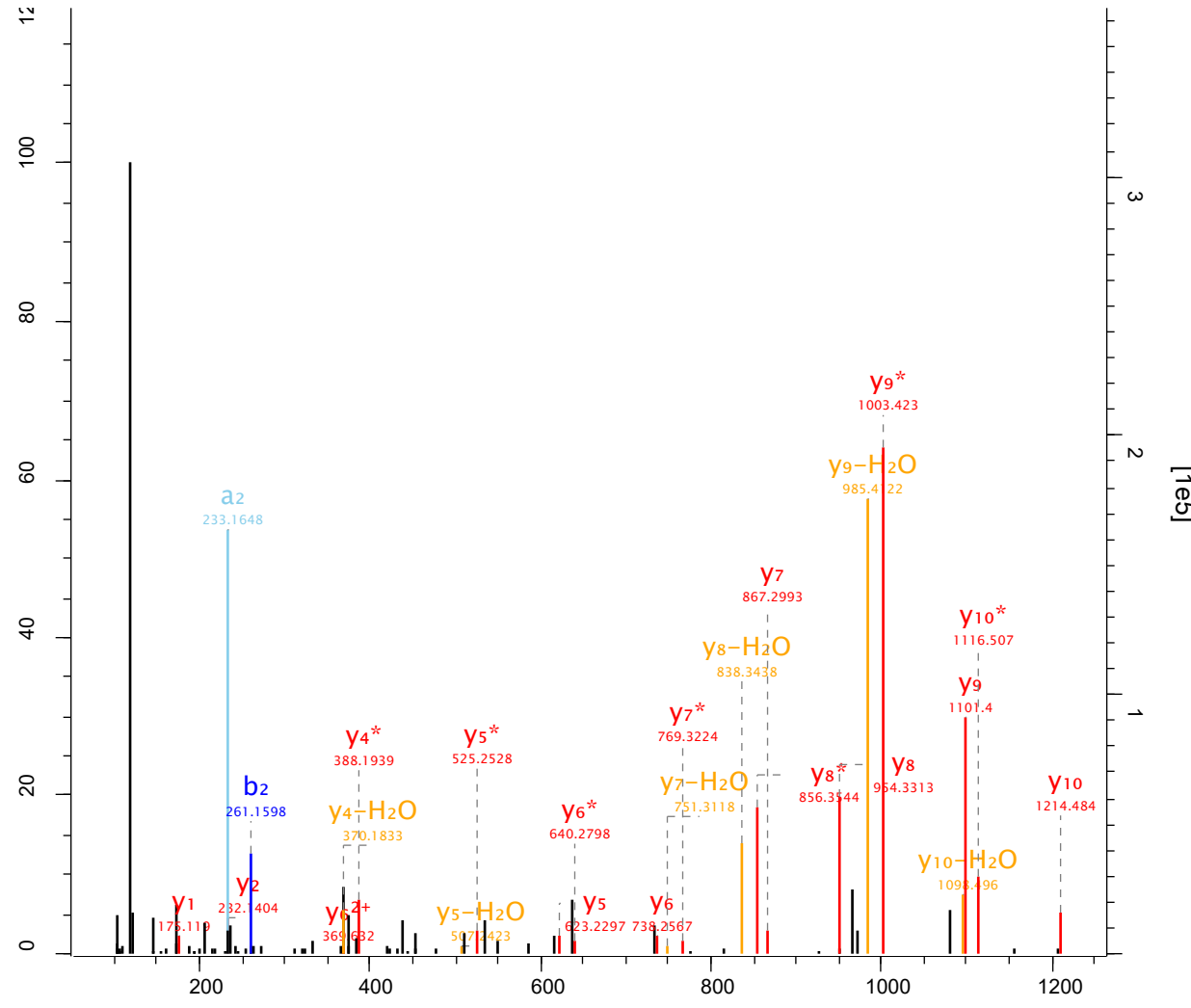


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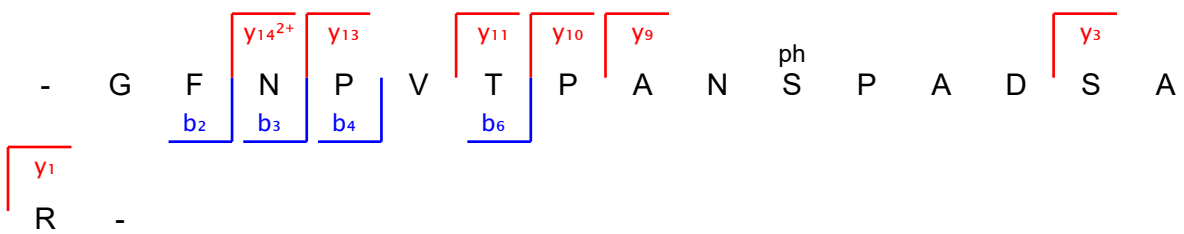
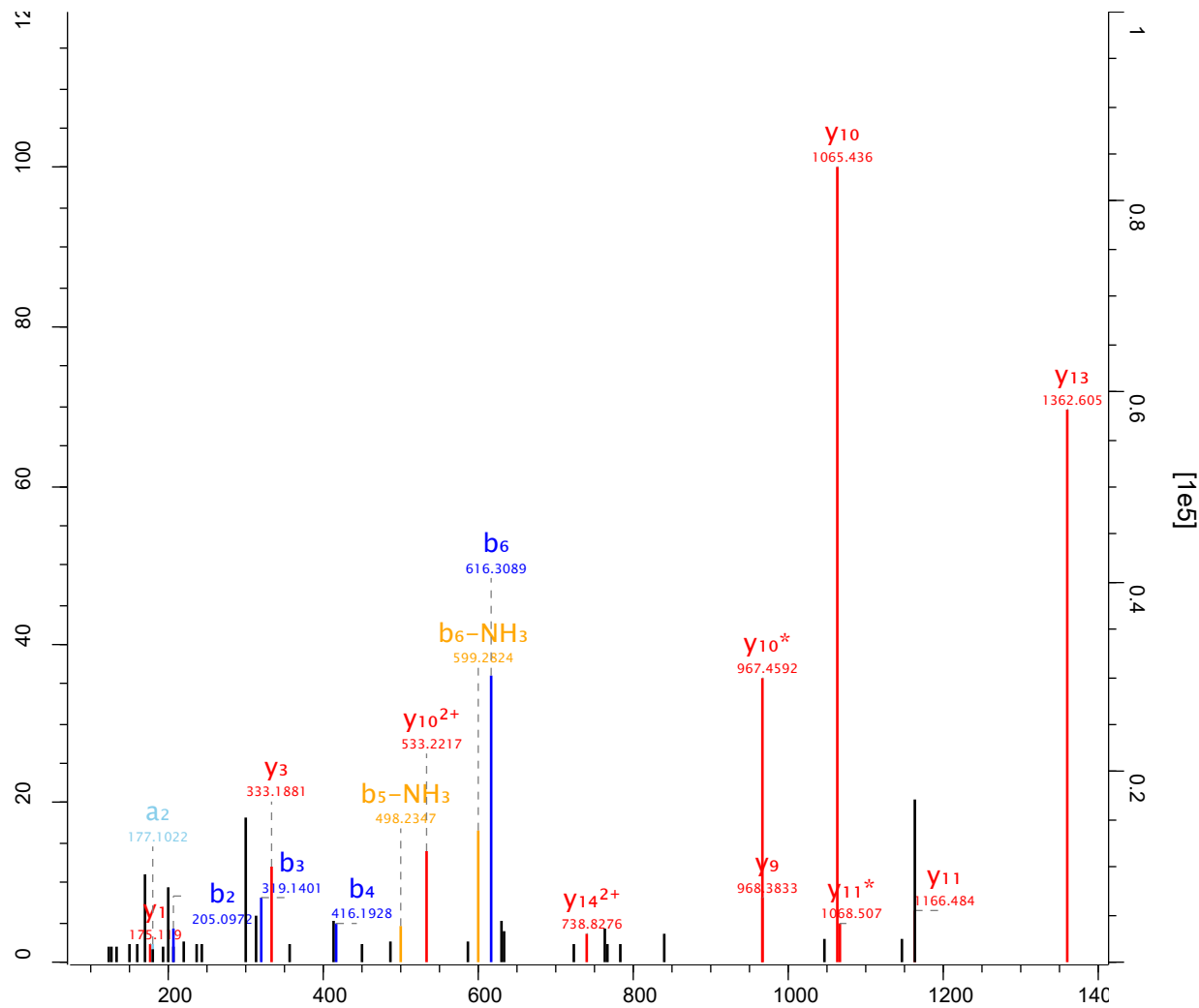




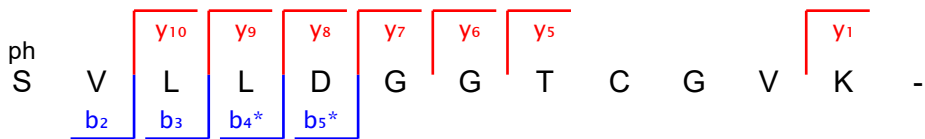
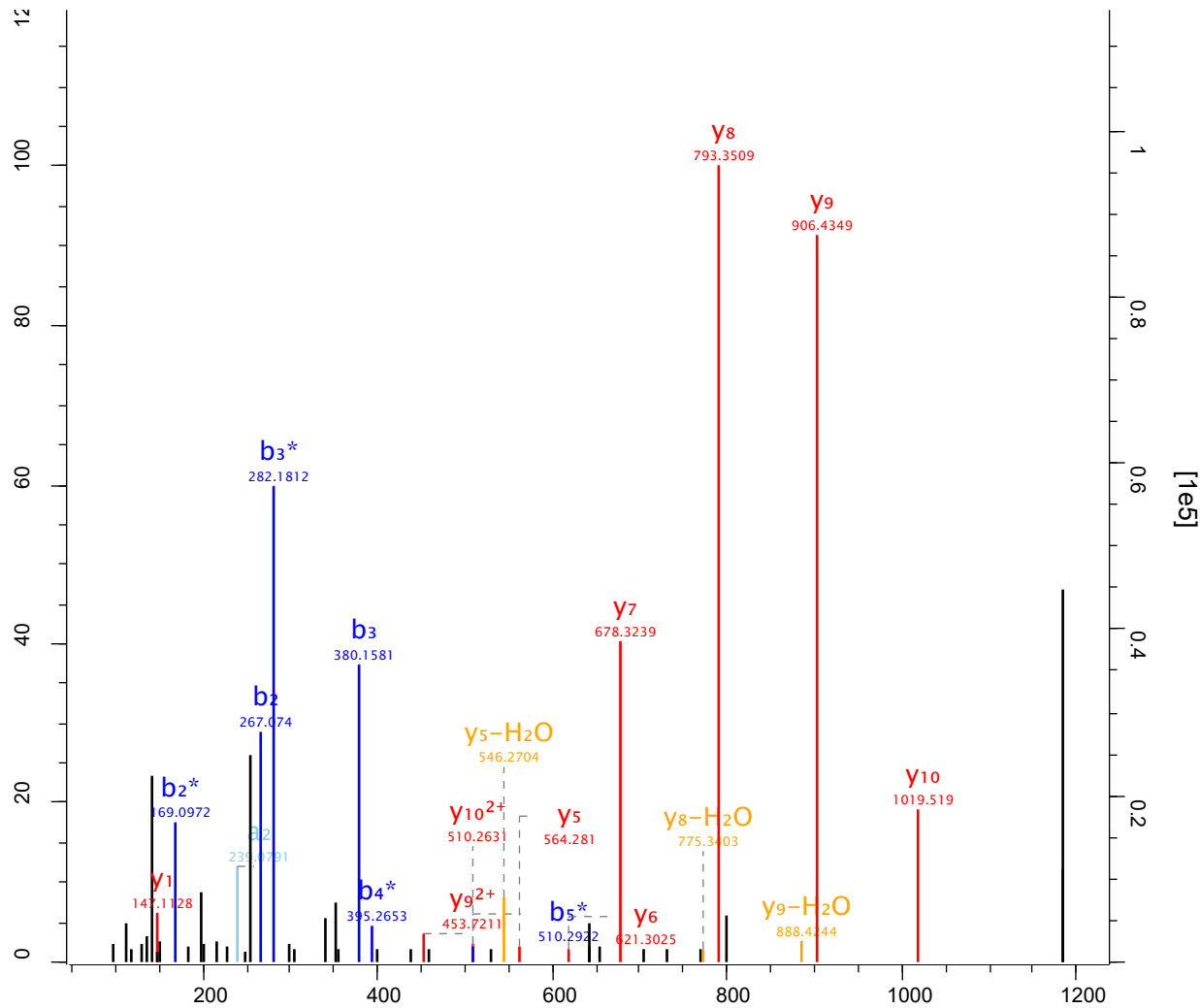
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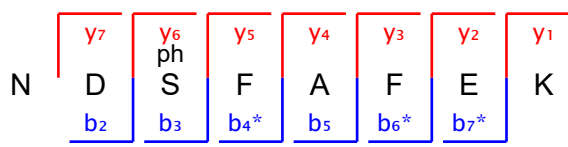
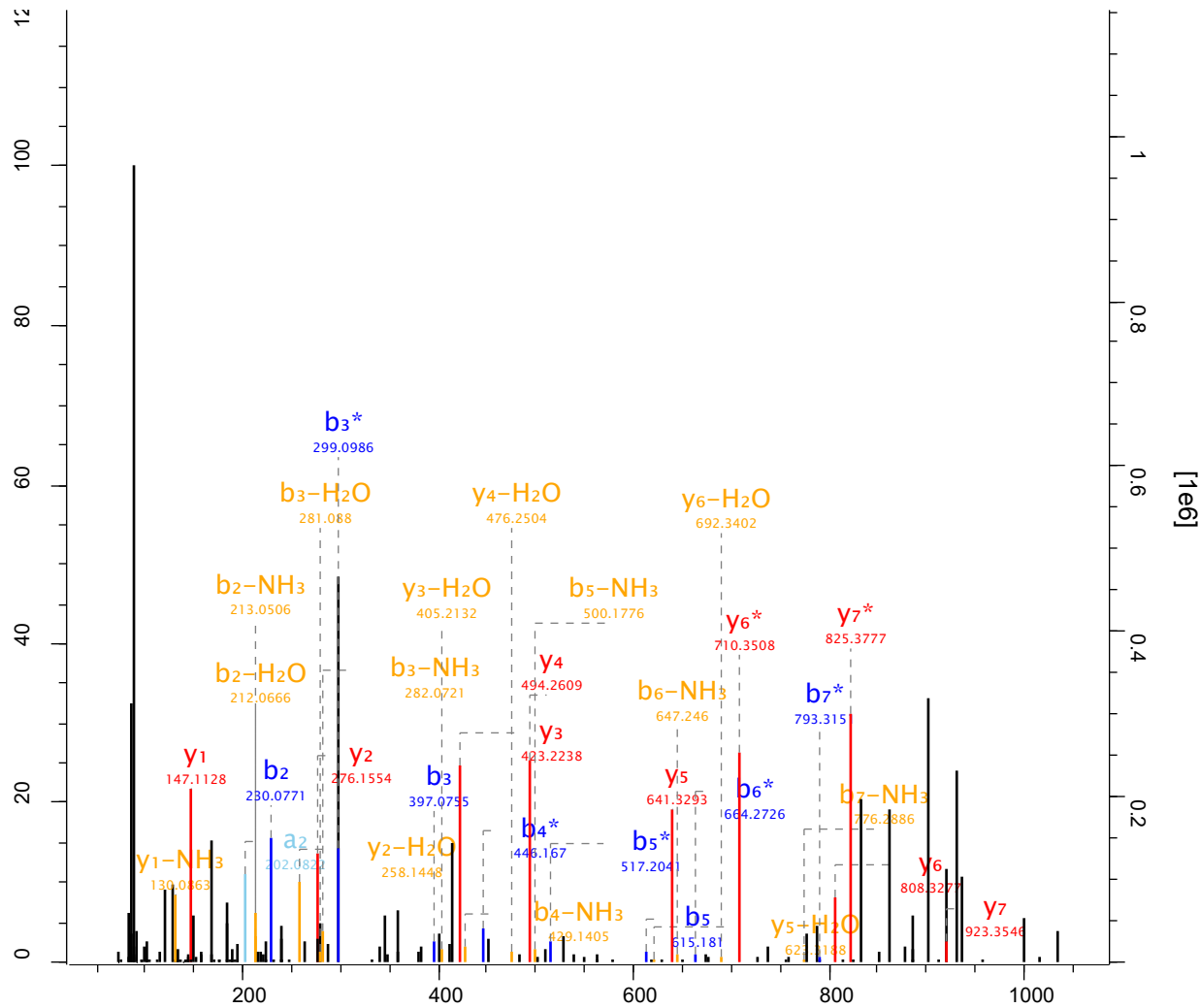
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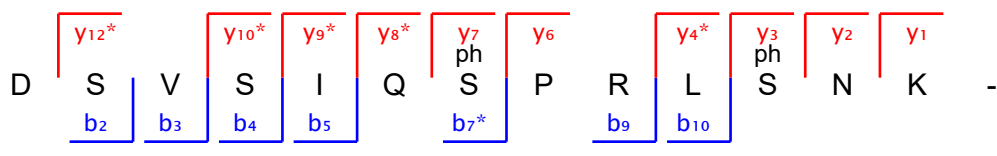
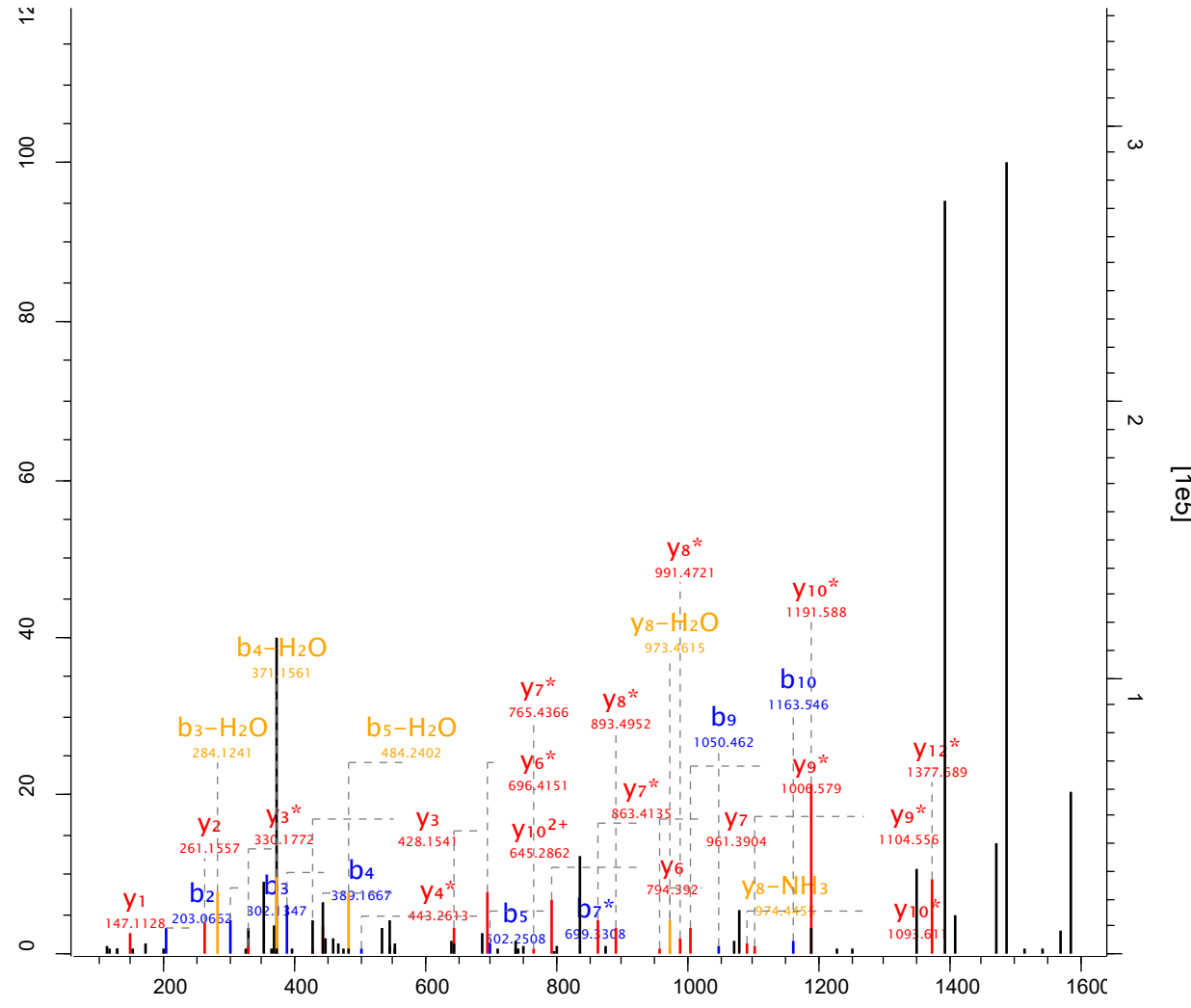


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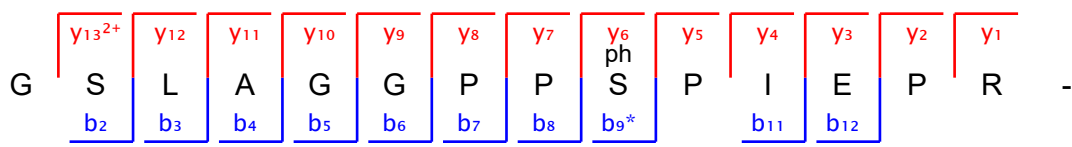
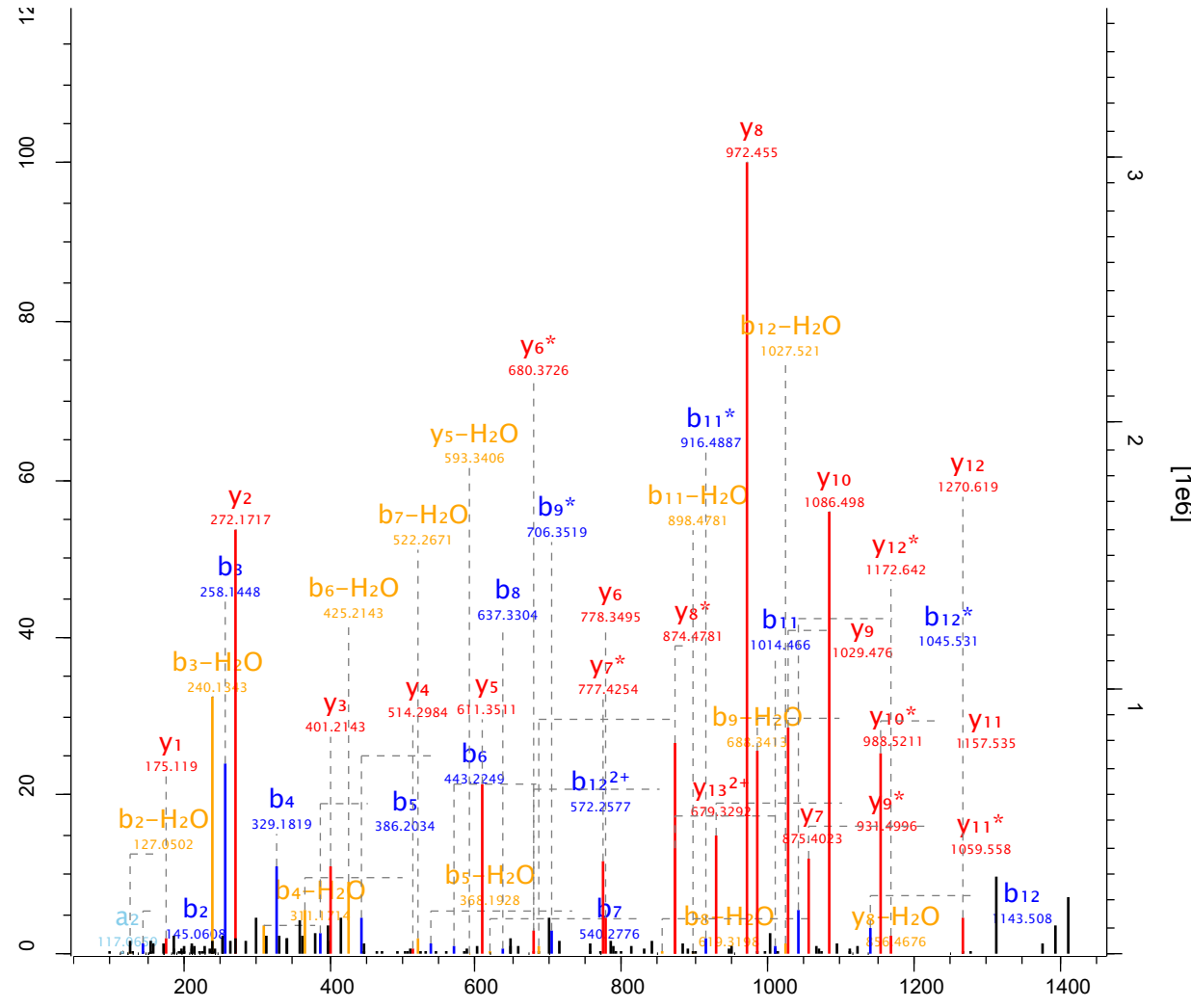




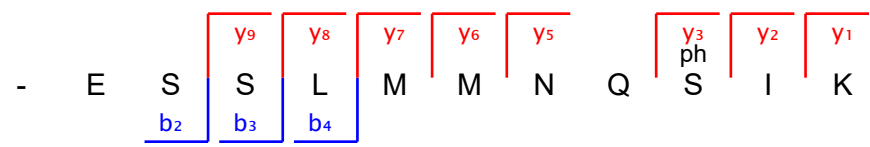
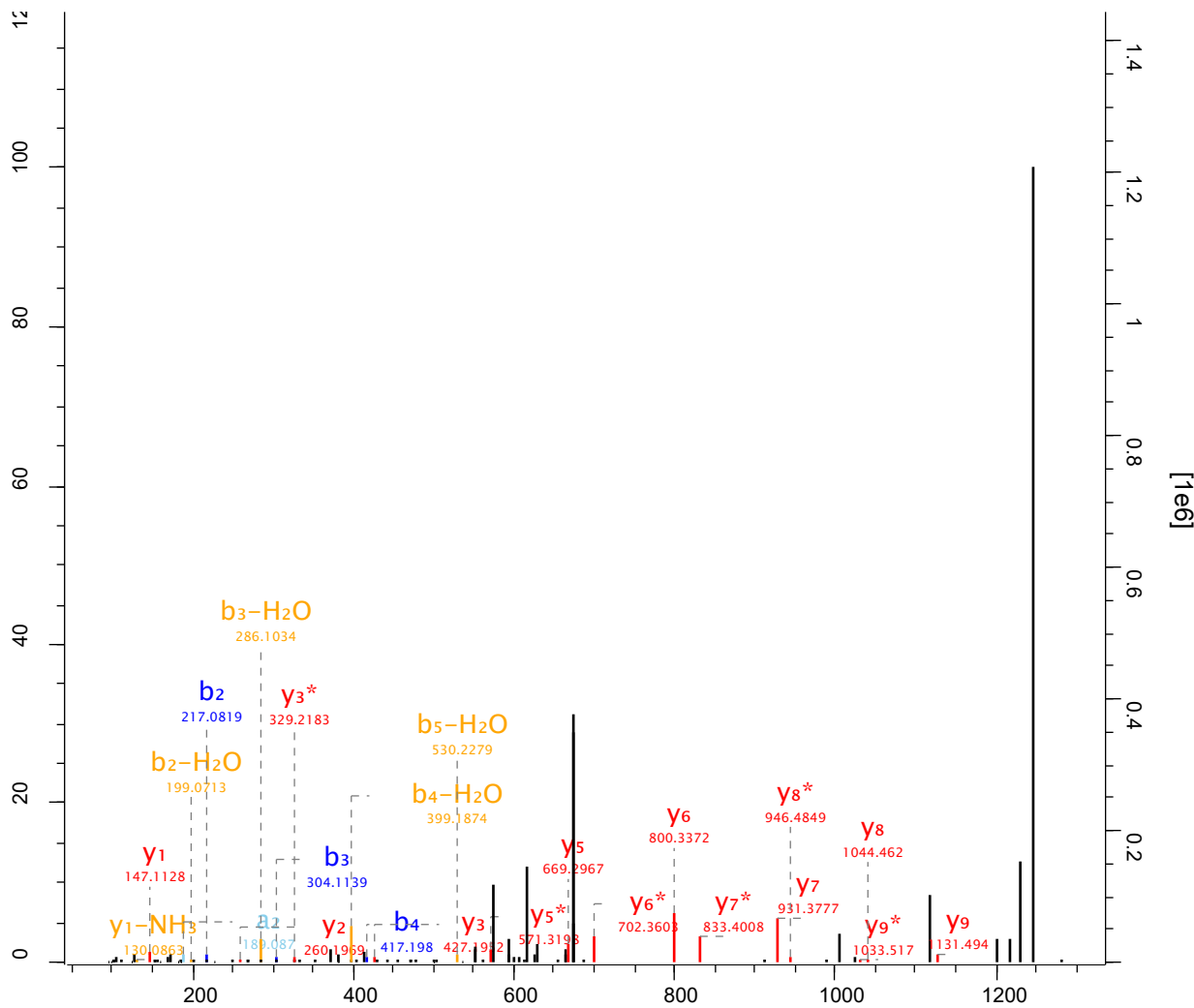
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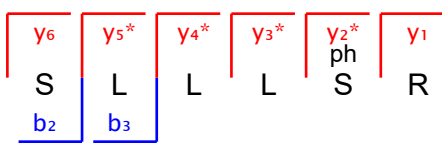
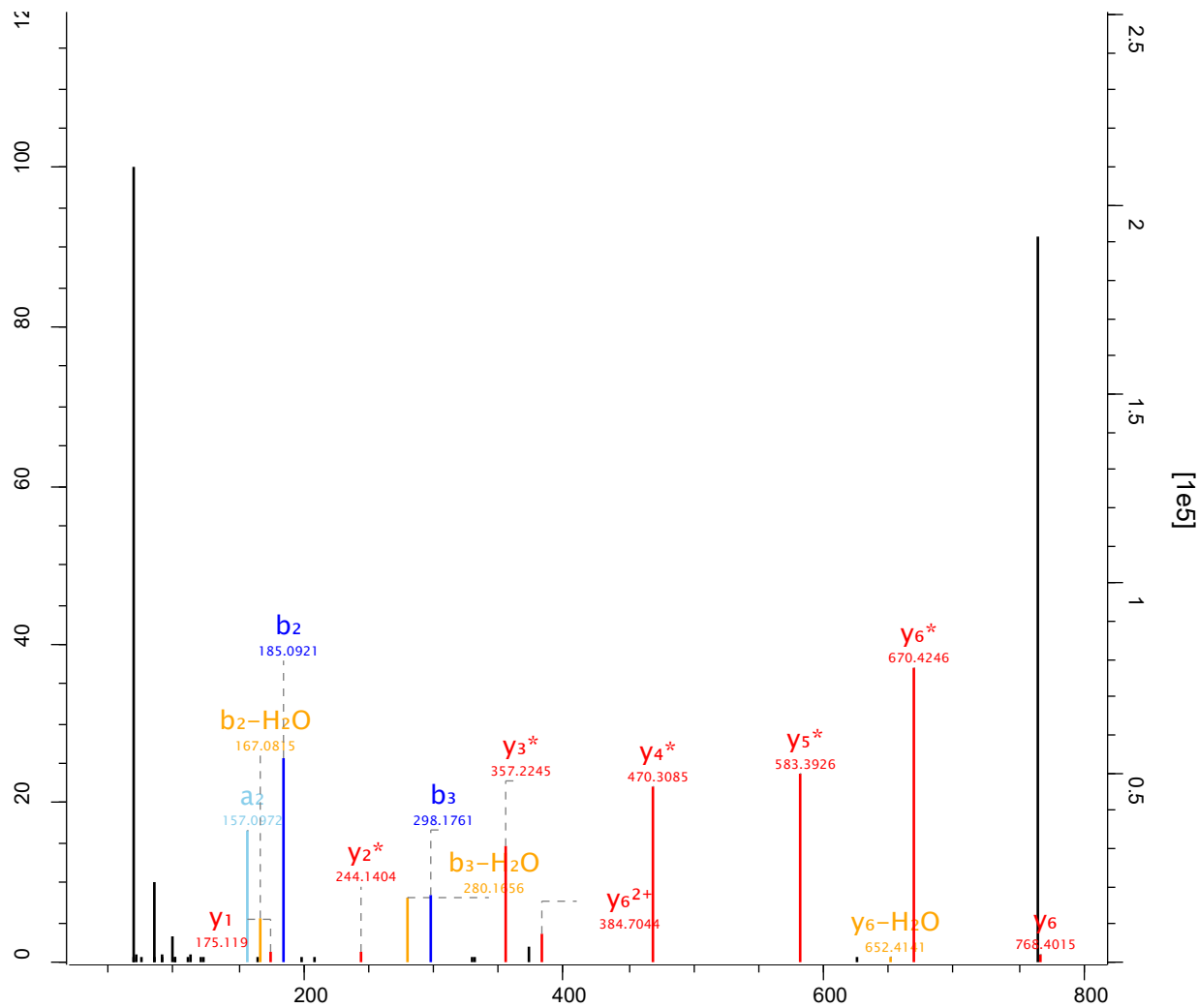


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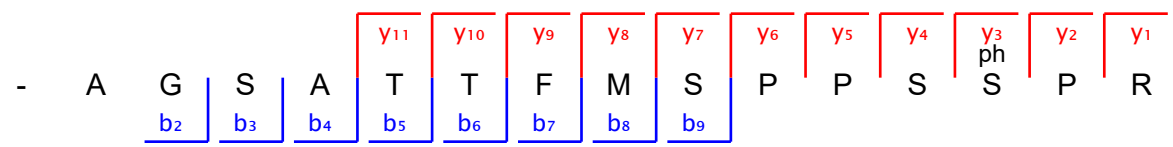
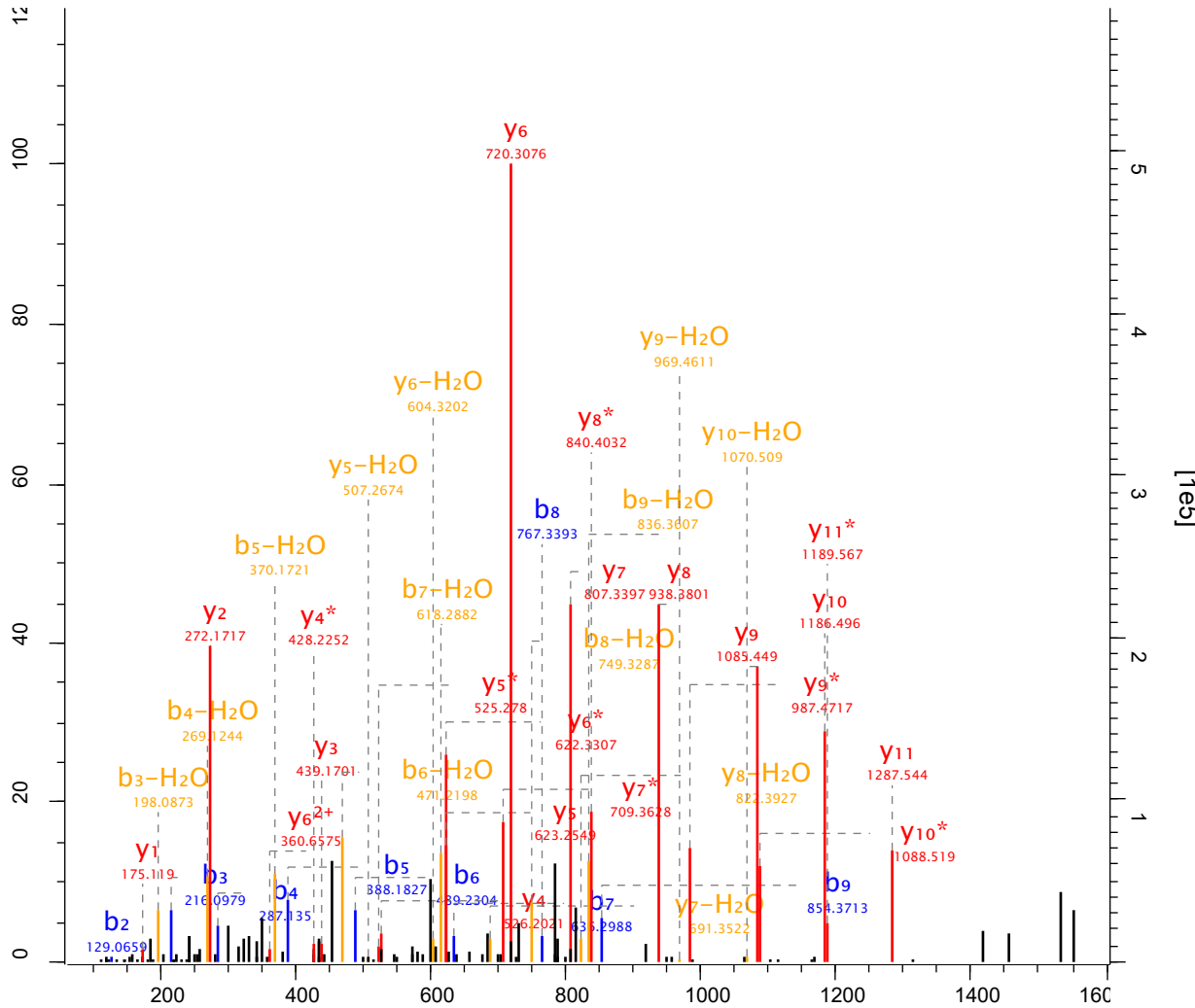




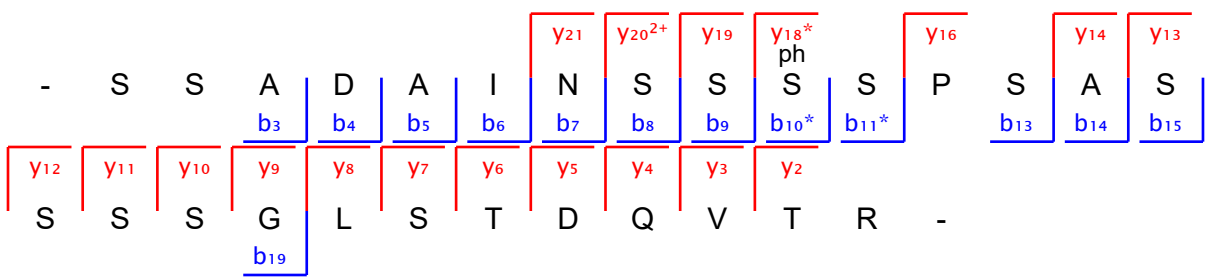
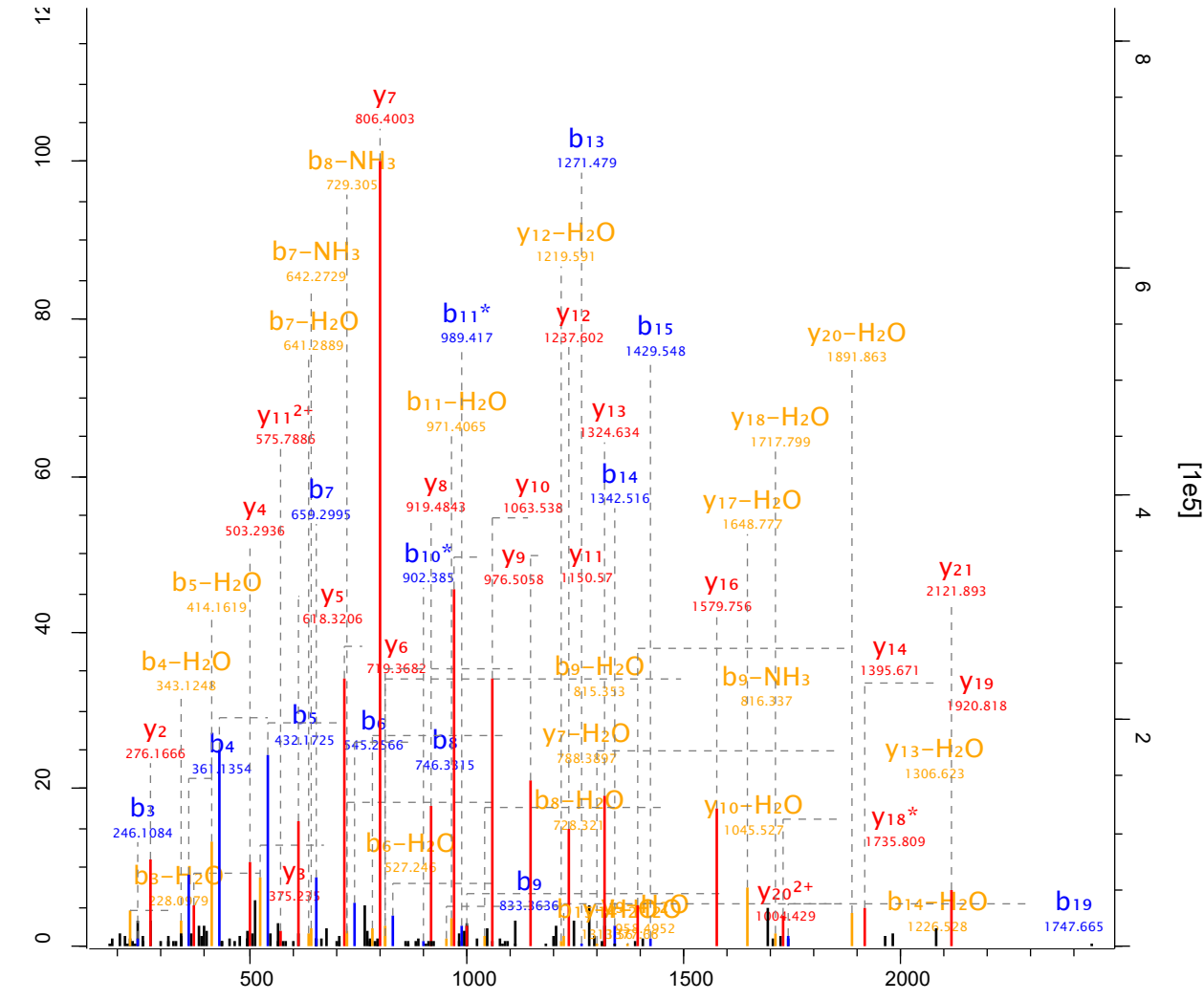
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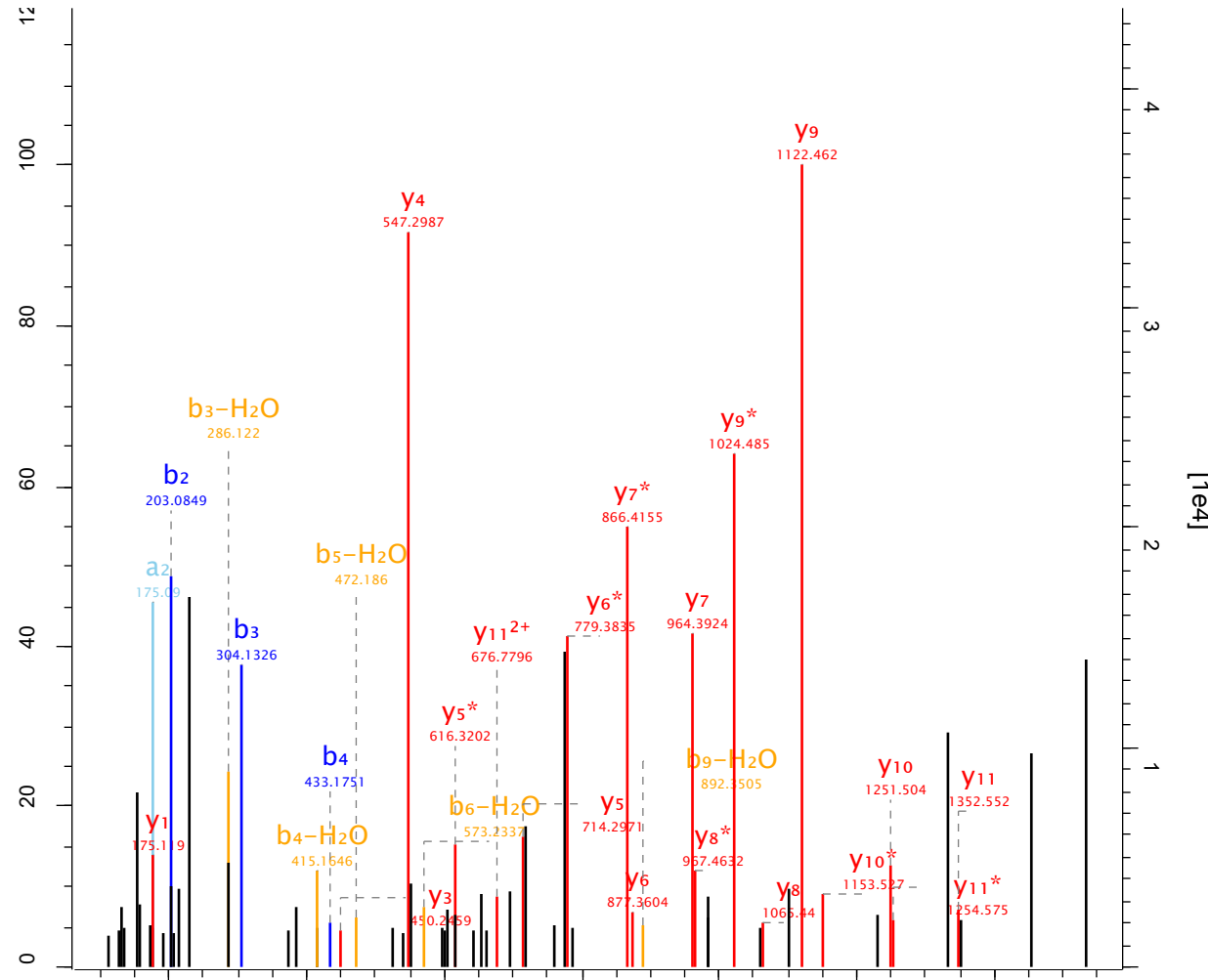
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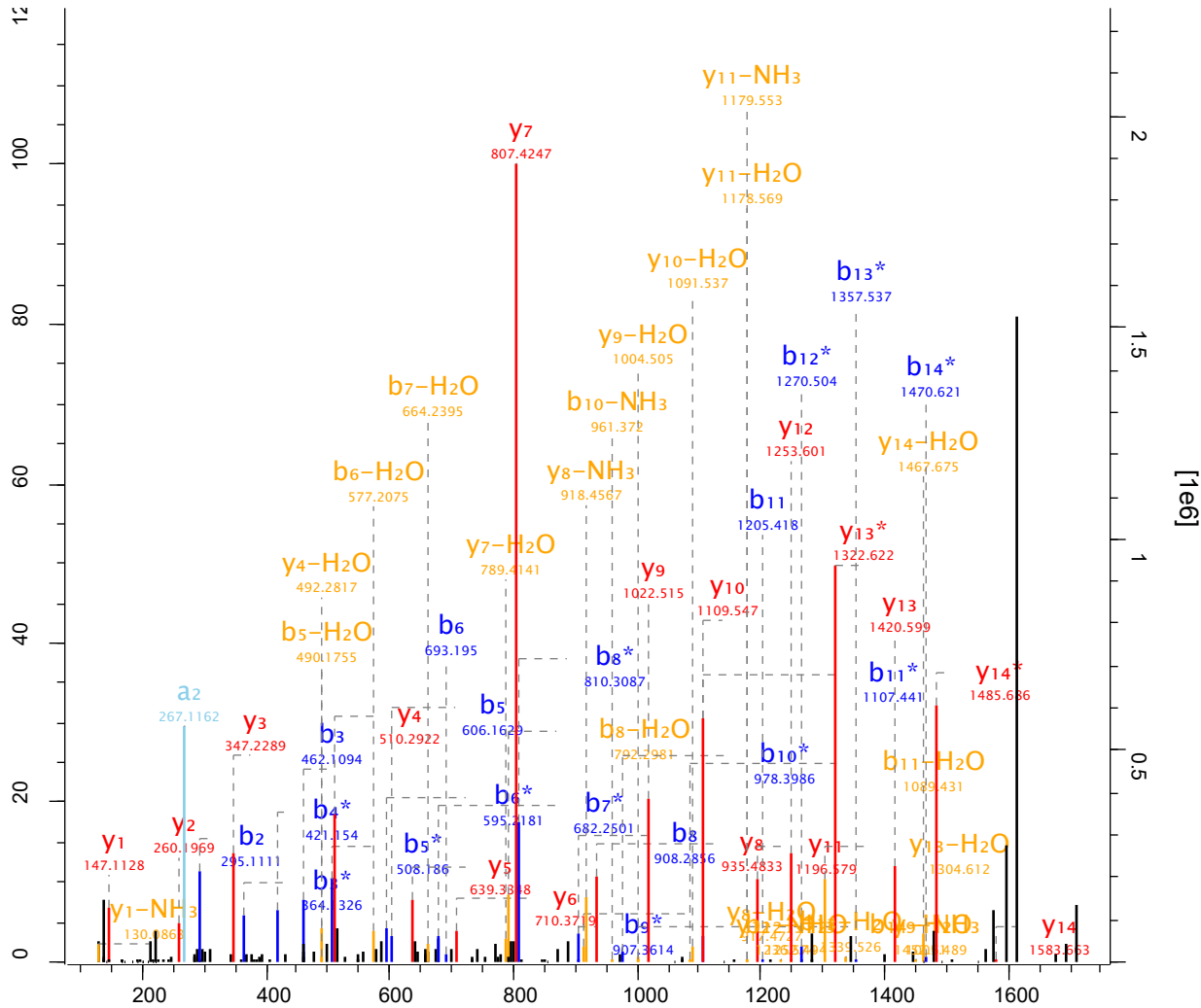
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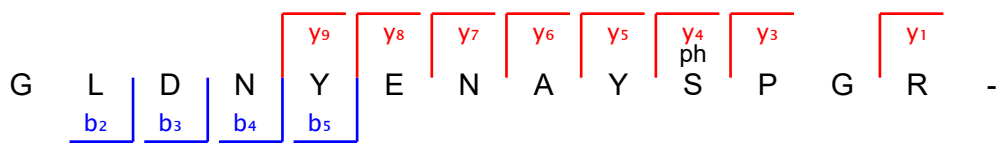
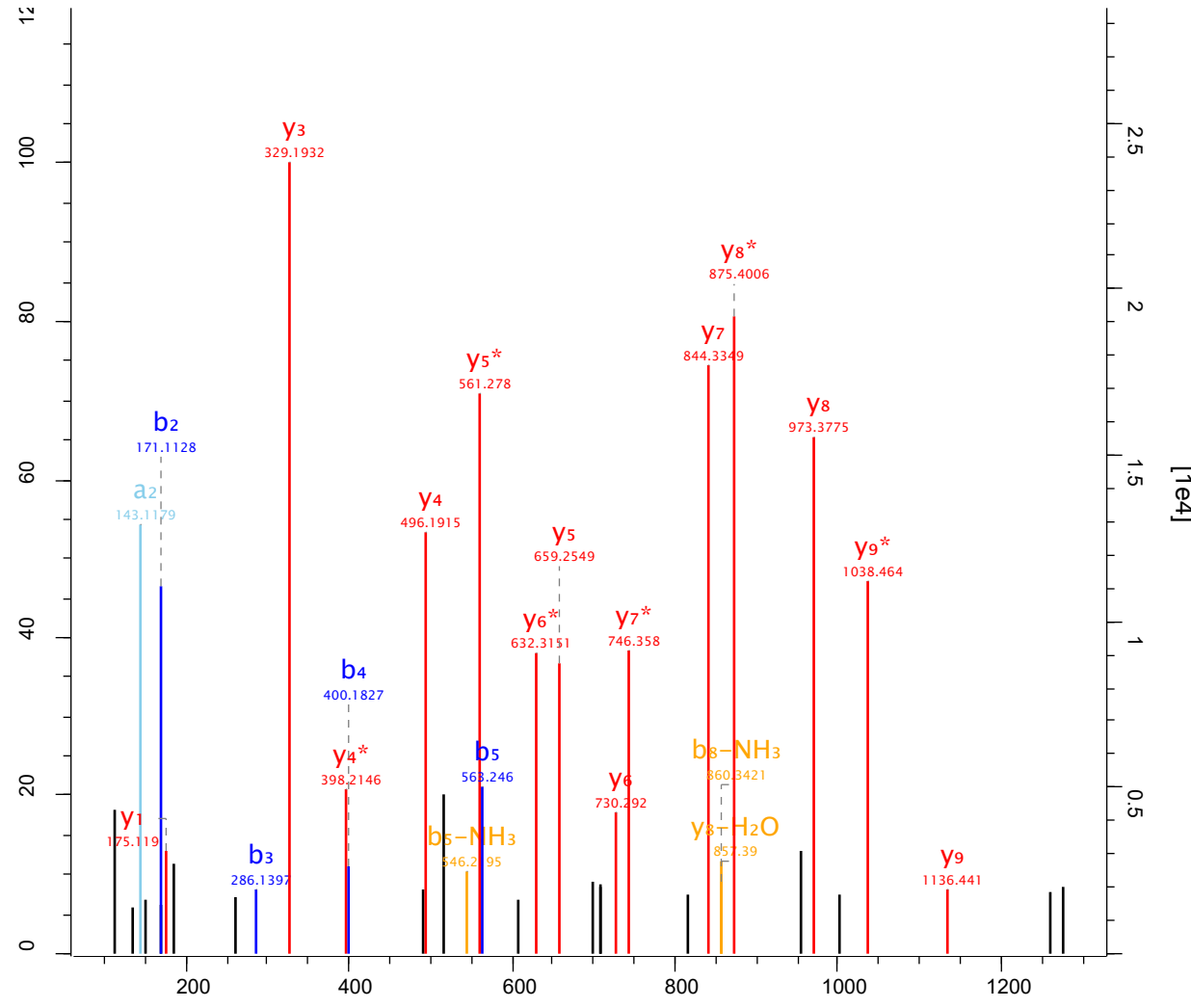
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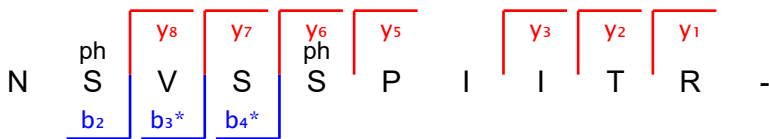
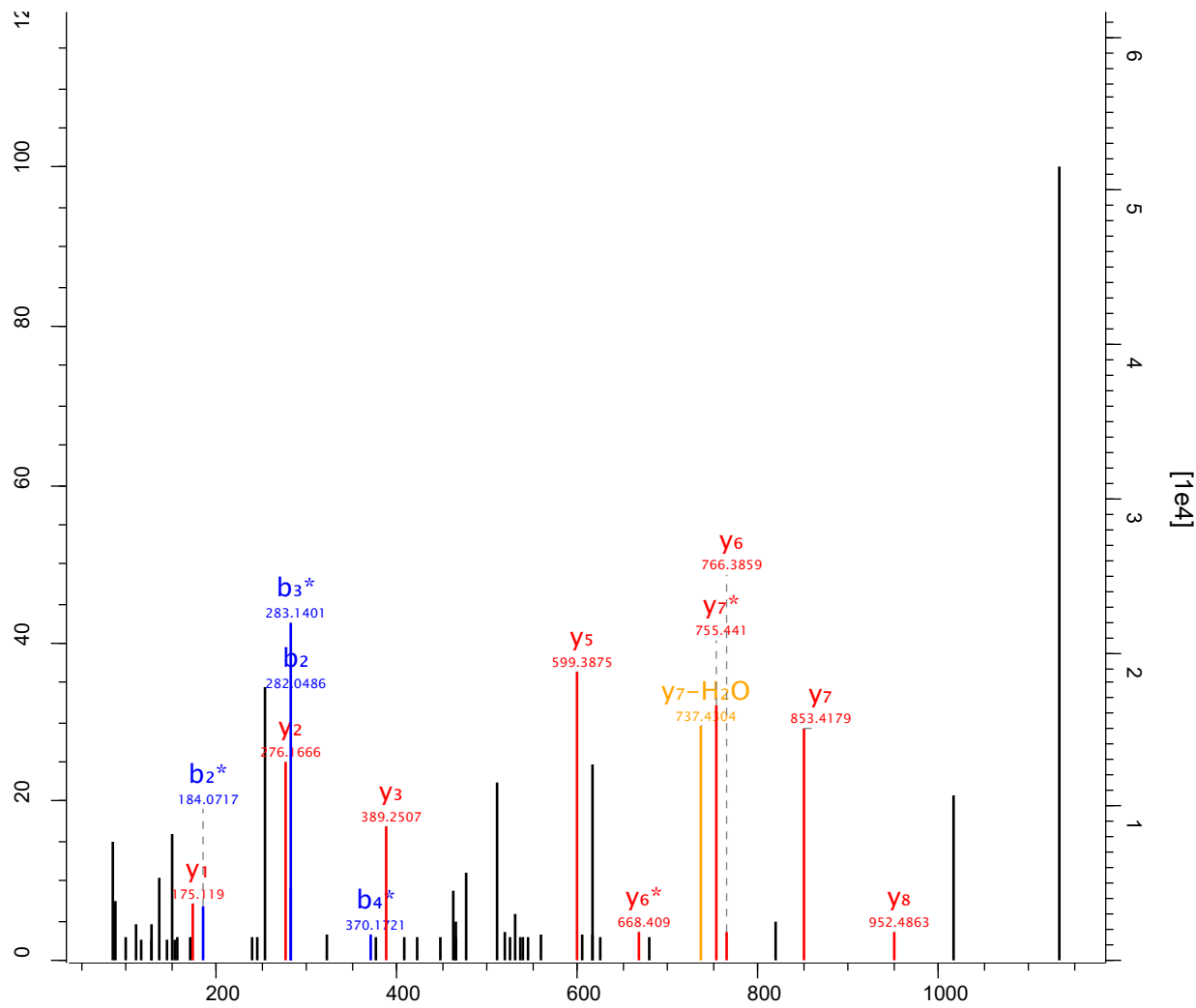
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	b2	b3	b4*	b5	b6	b7*	b8	b9*	b10*	b11	b12*	b13*	b14*	



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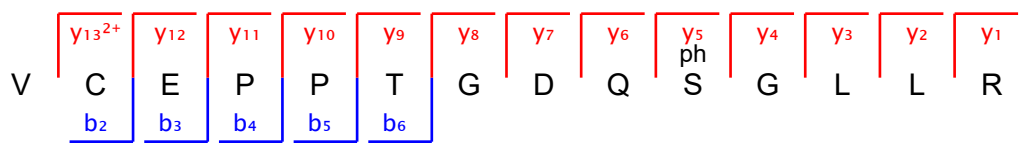
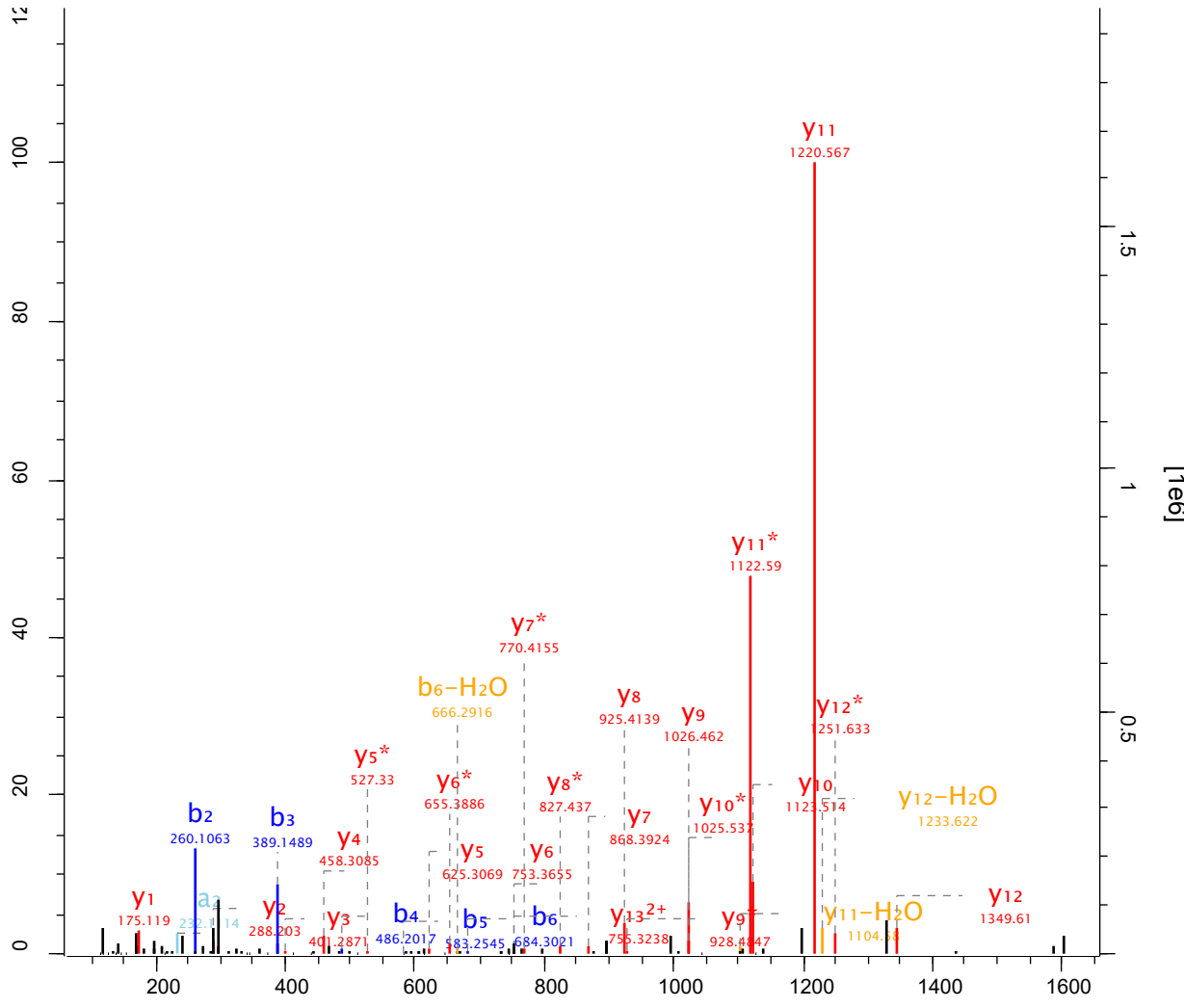


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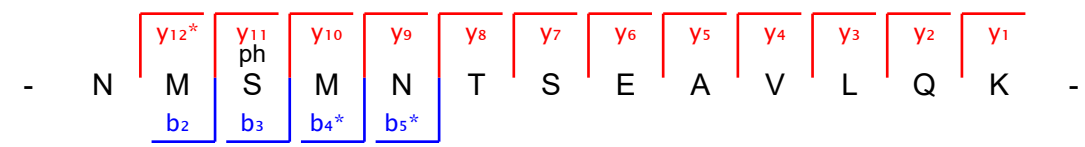
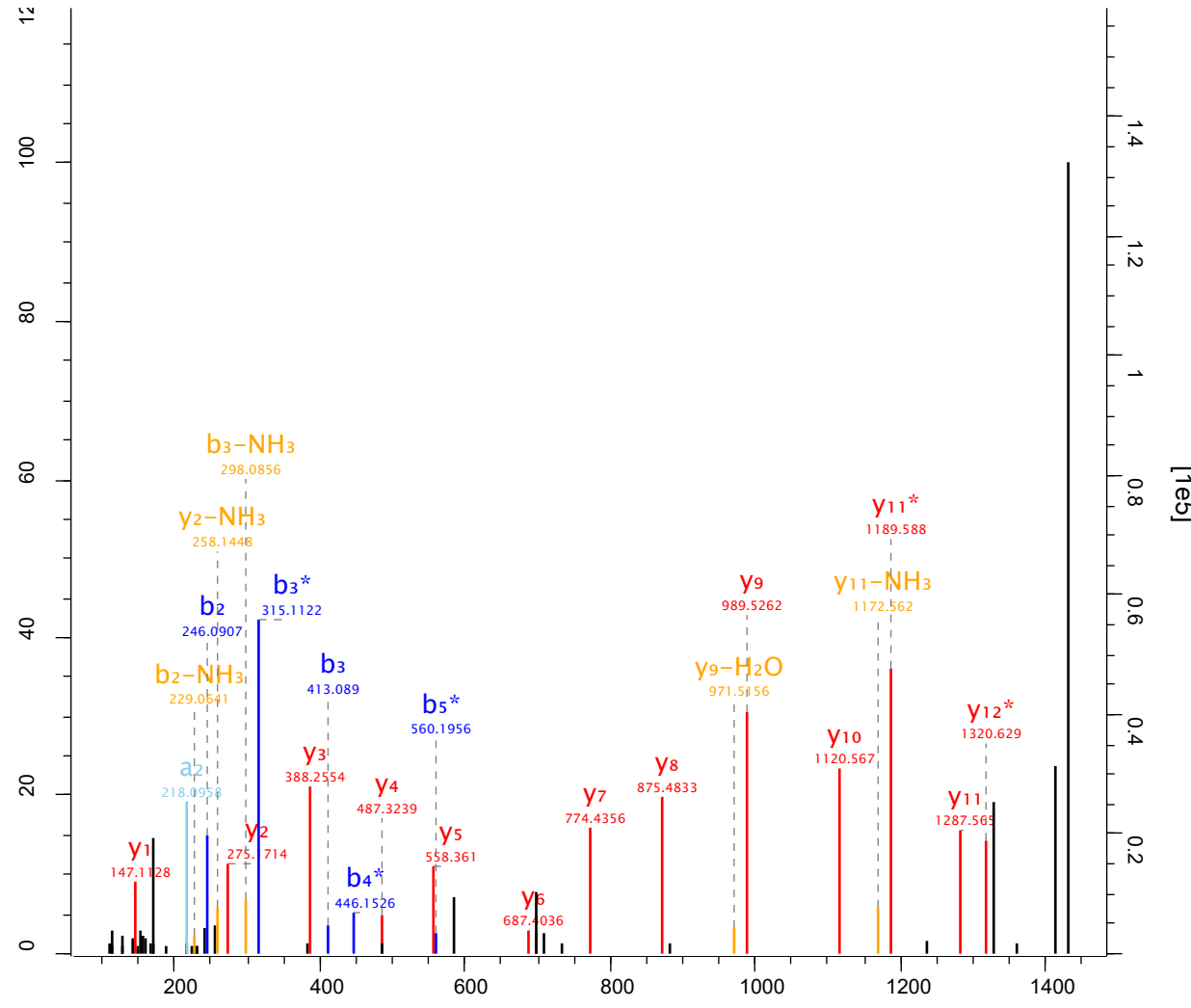




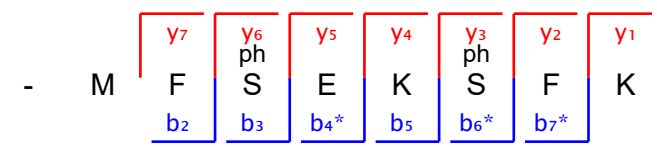
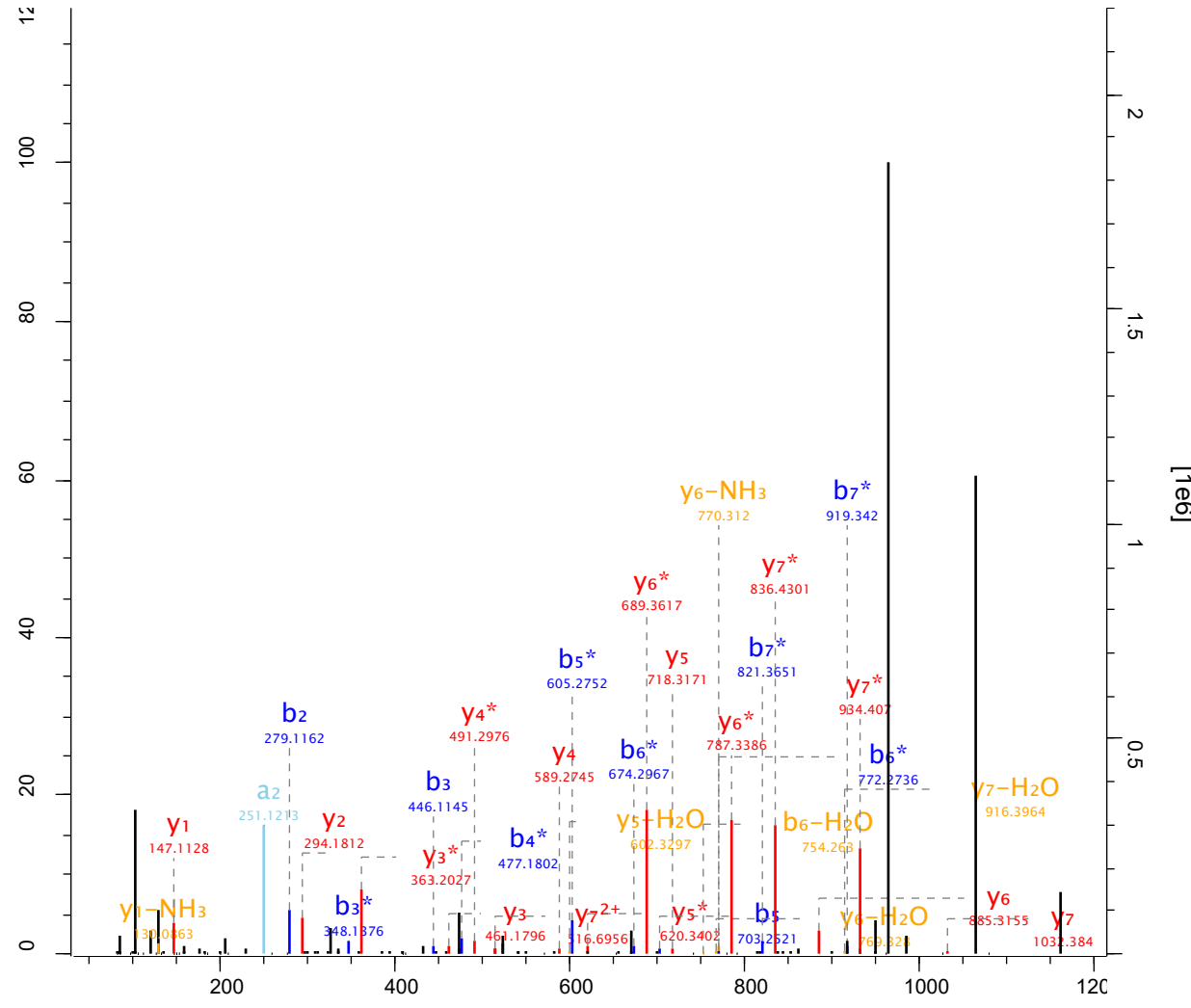
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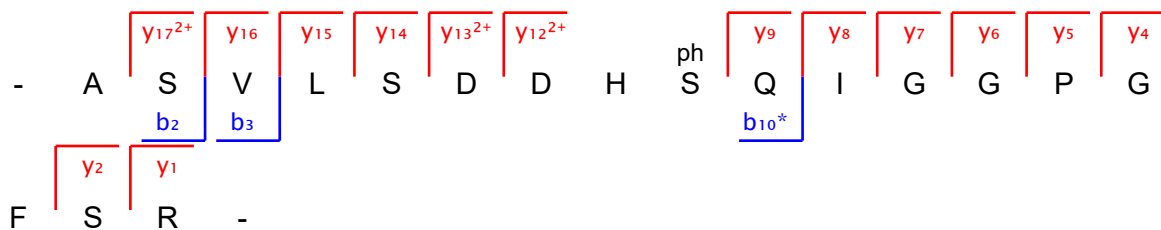
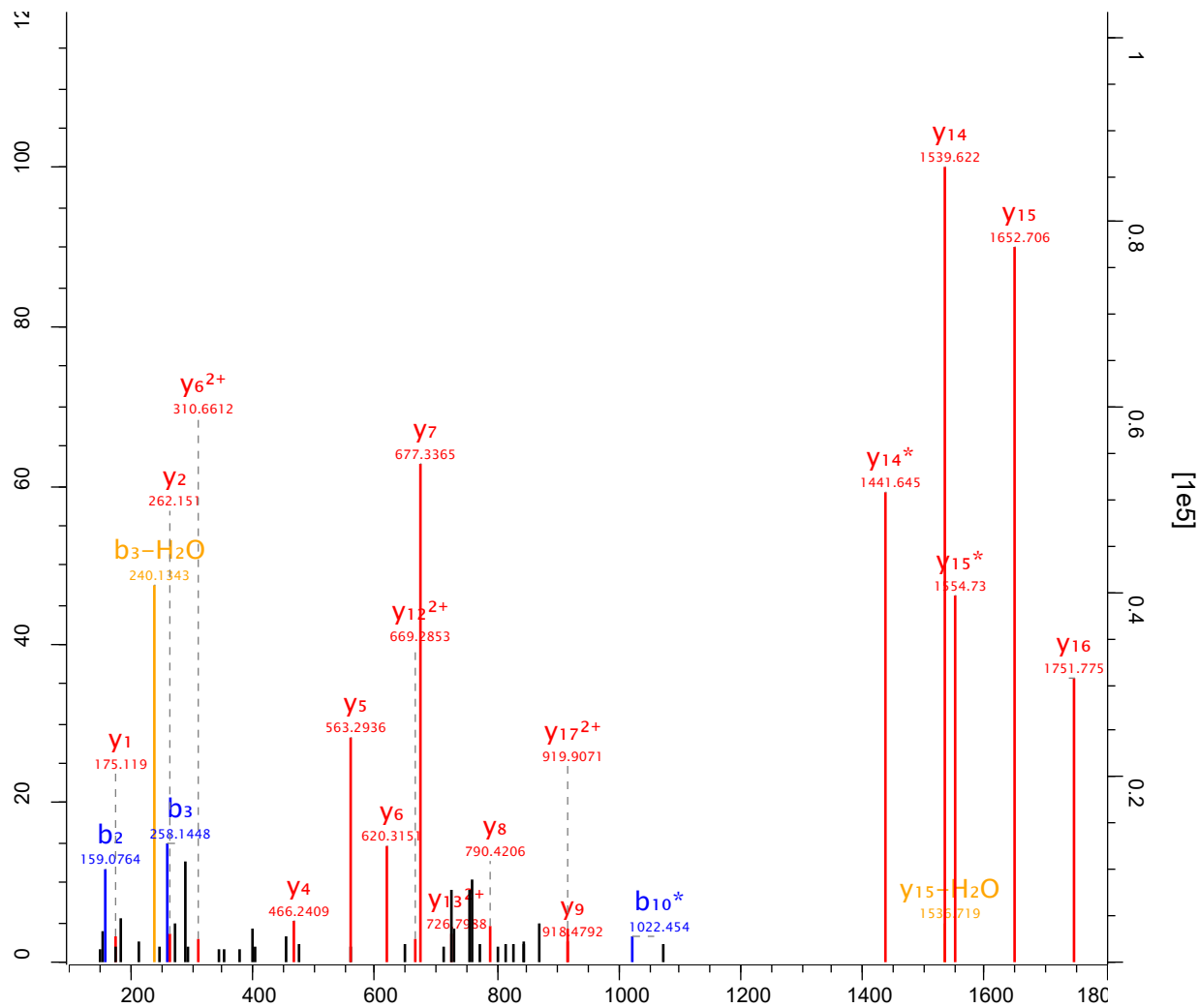
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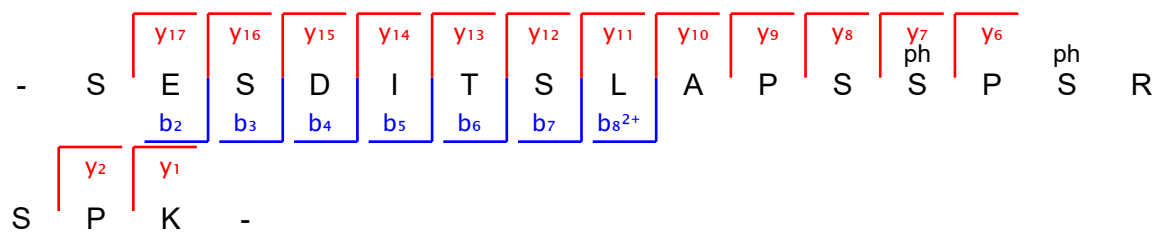
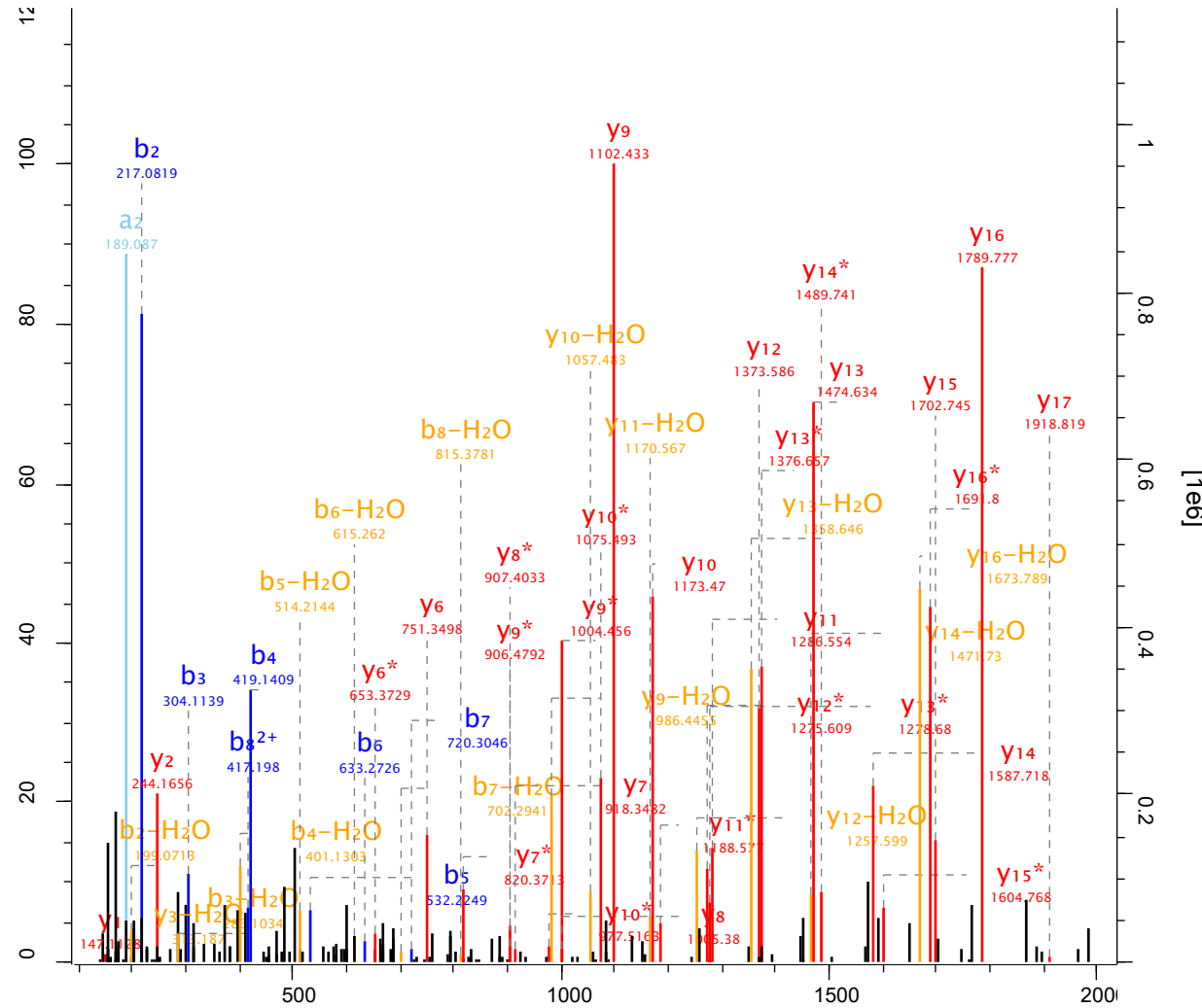
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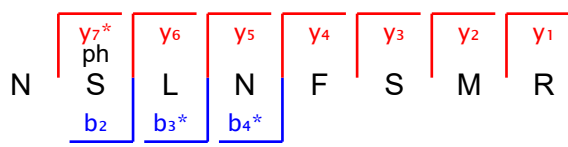
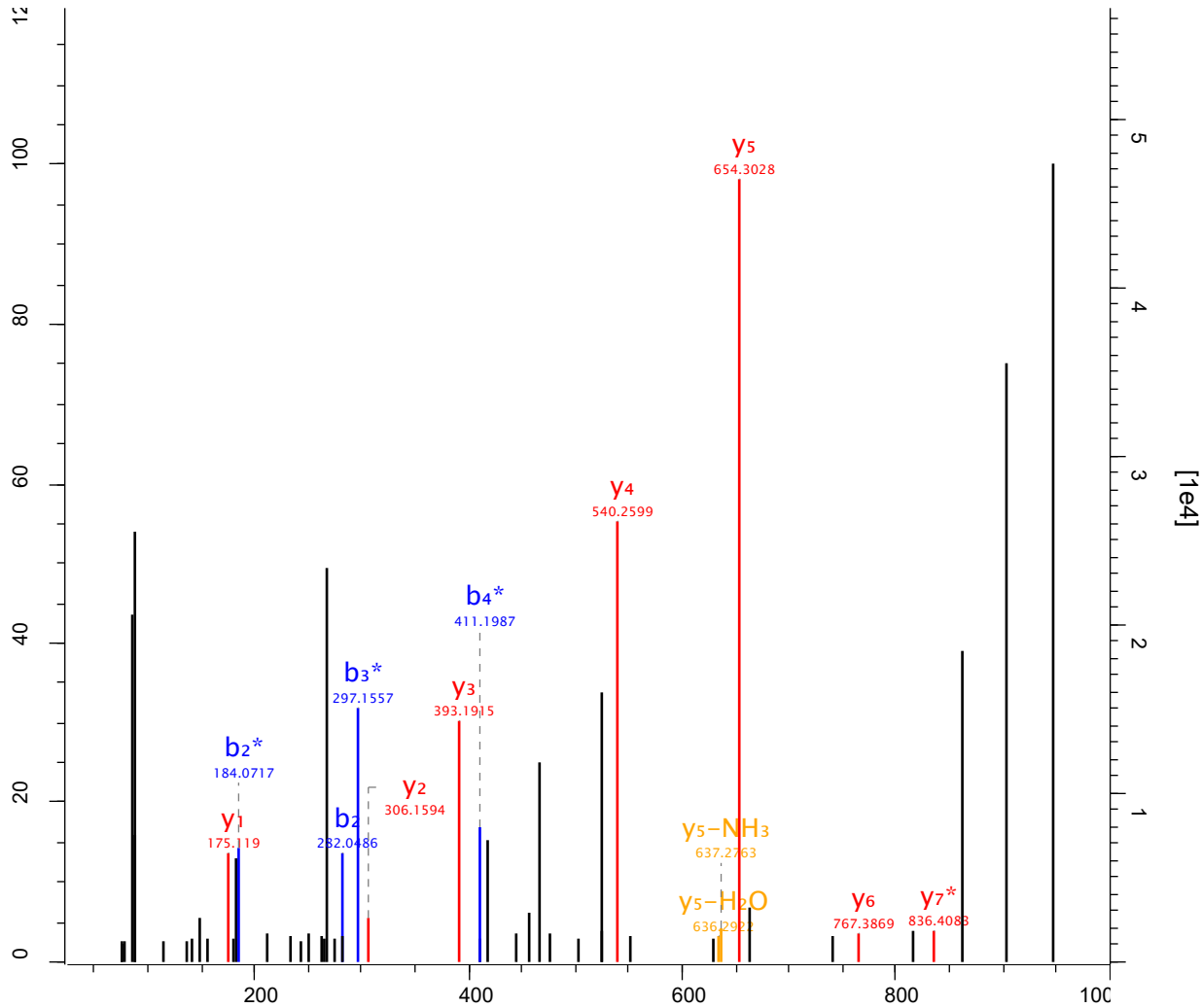
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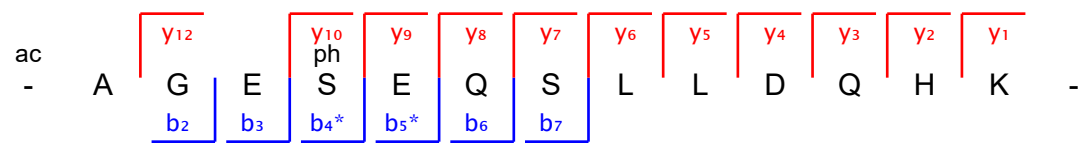
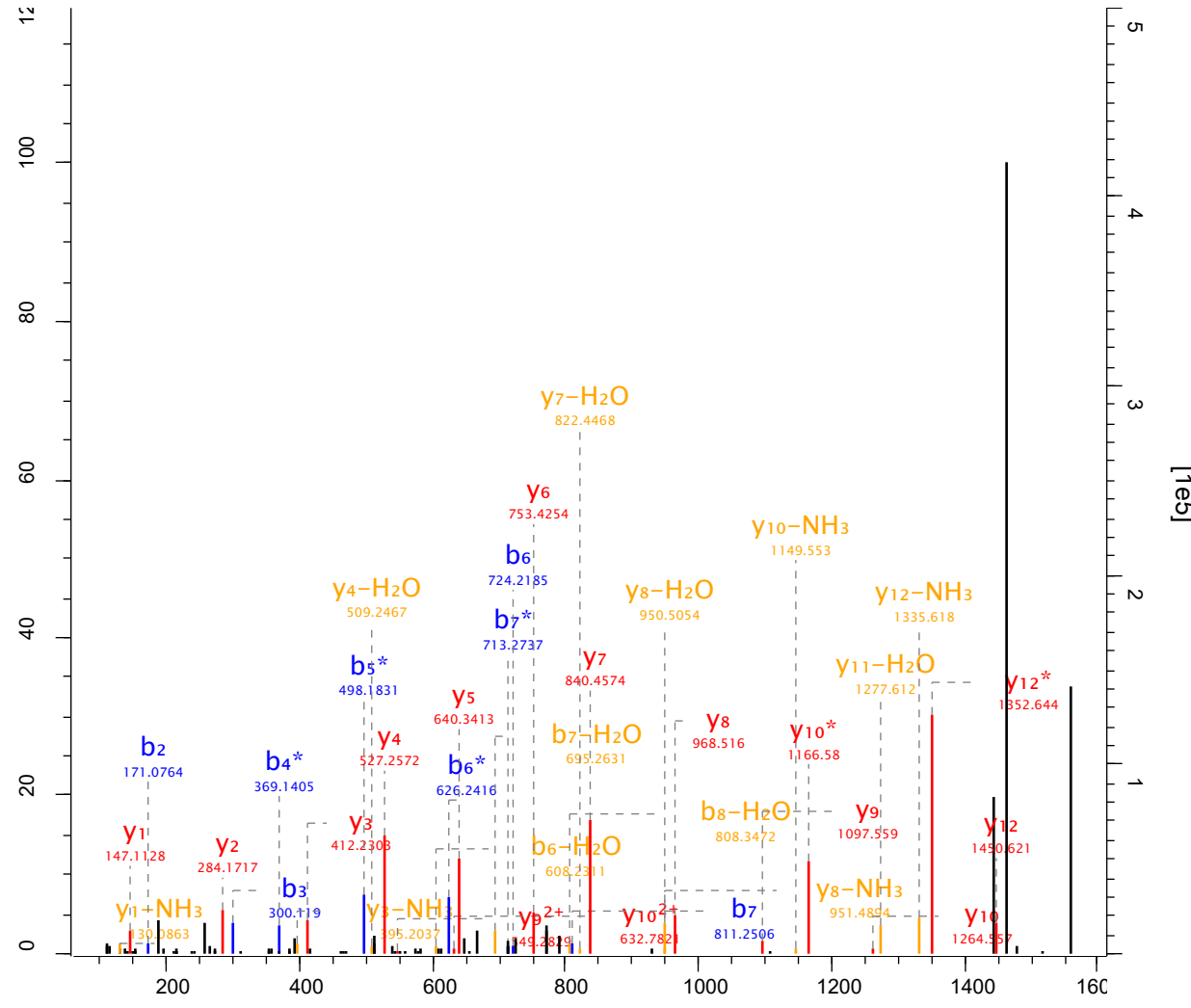
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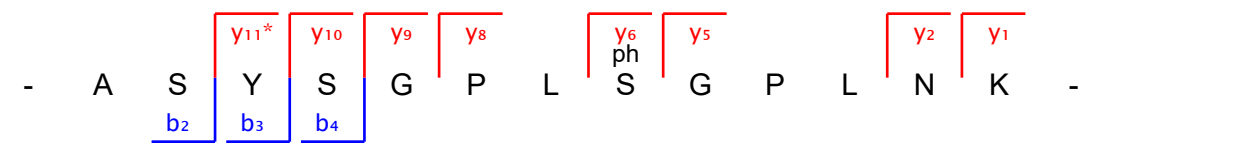
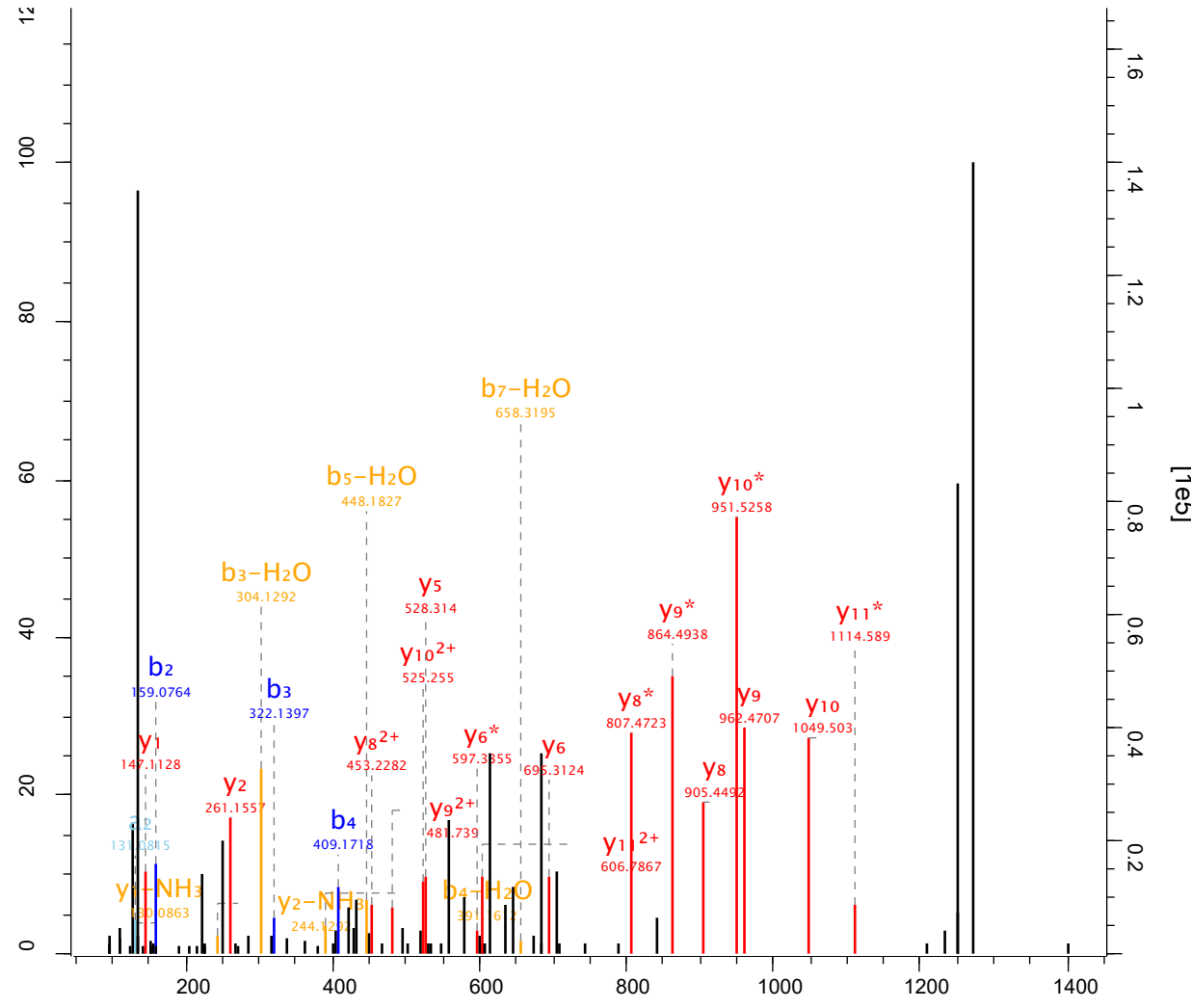
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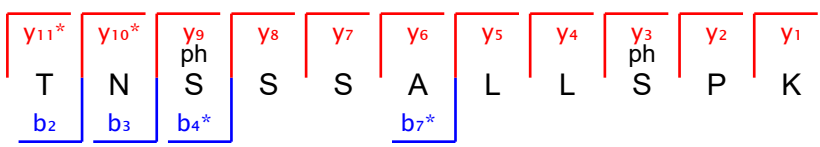
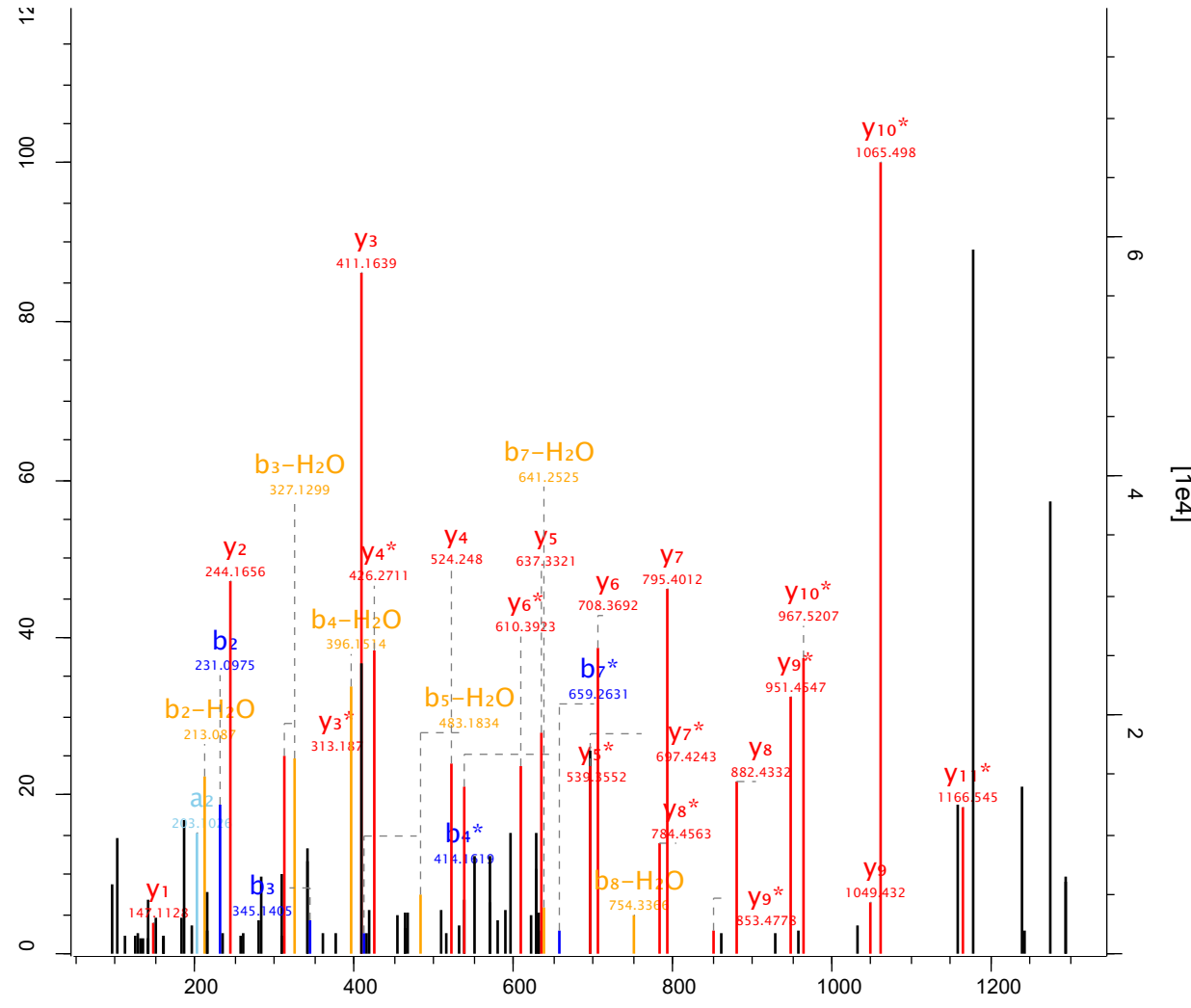


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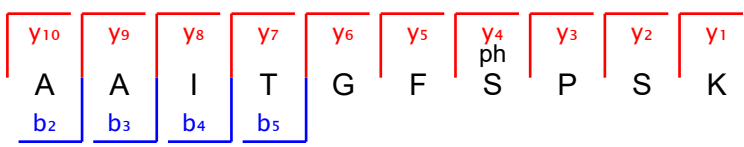
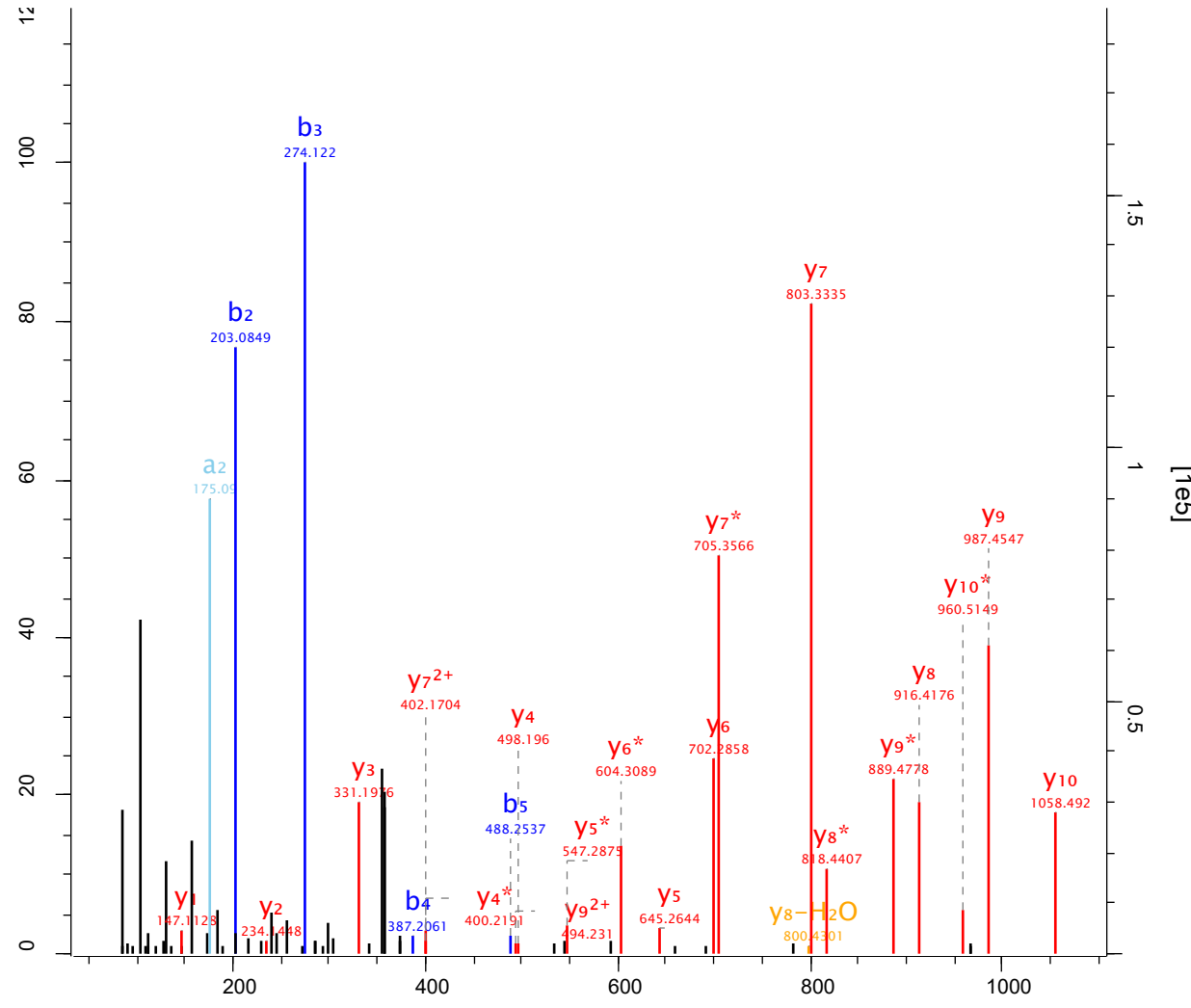




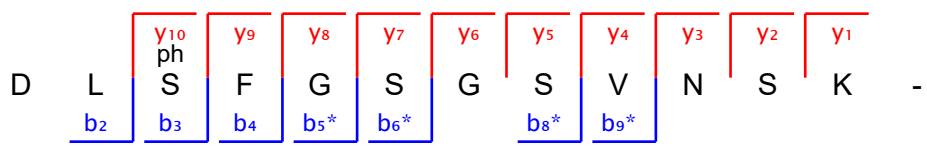
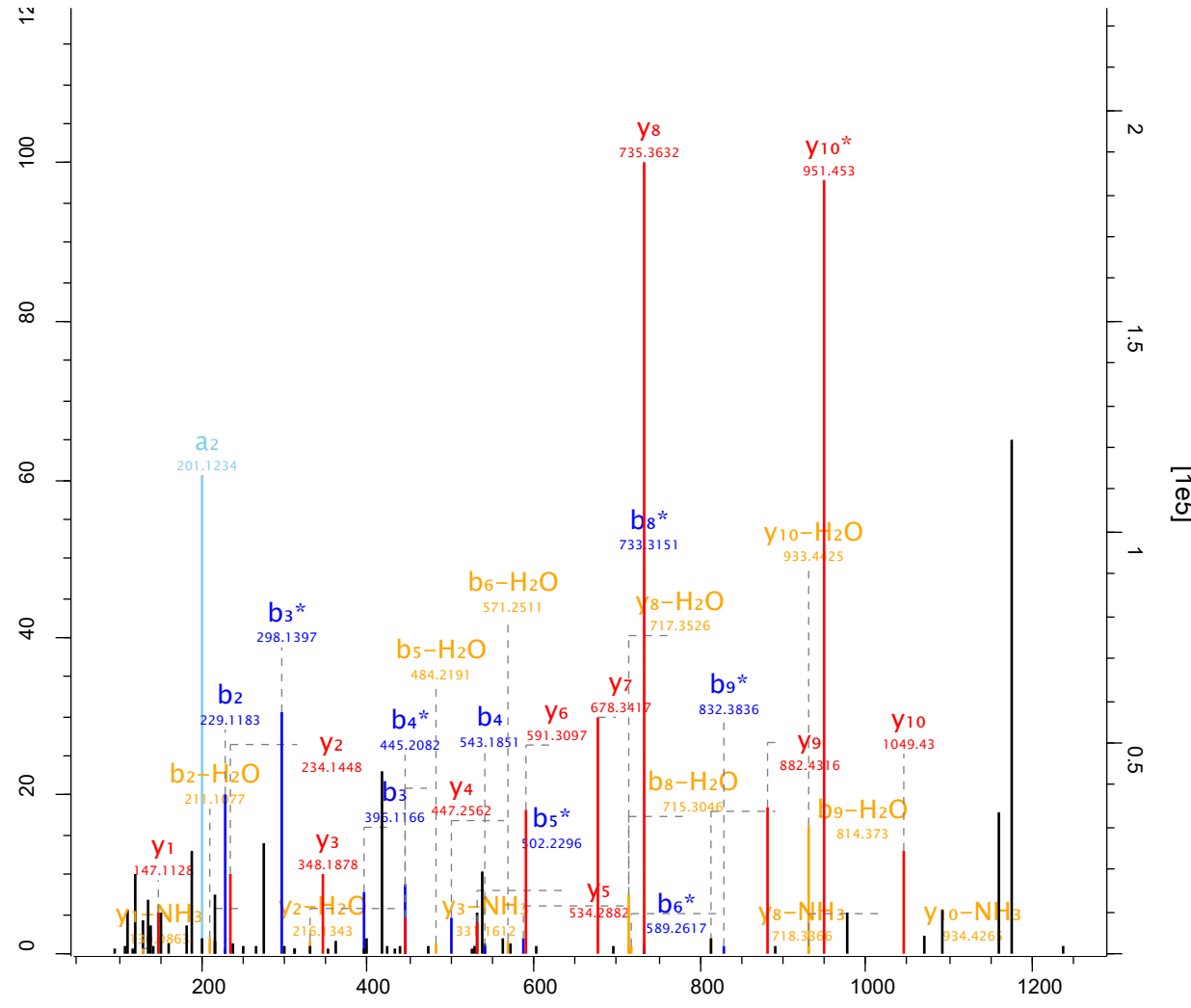
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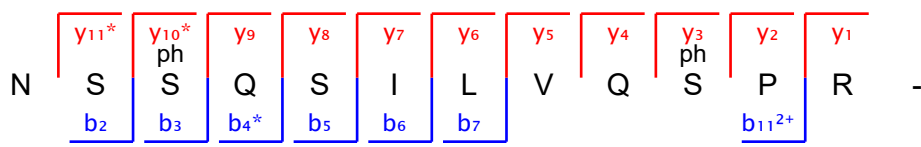
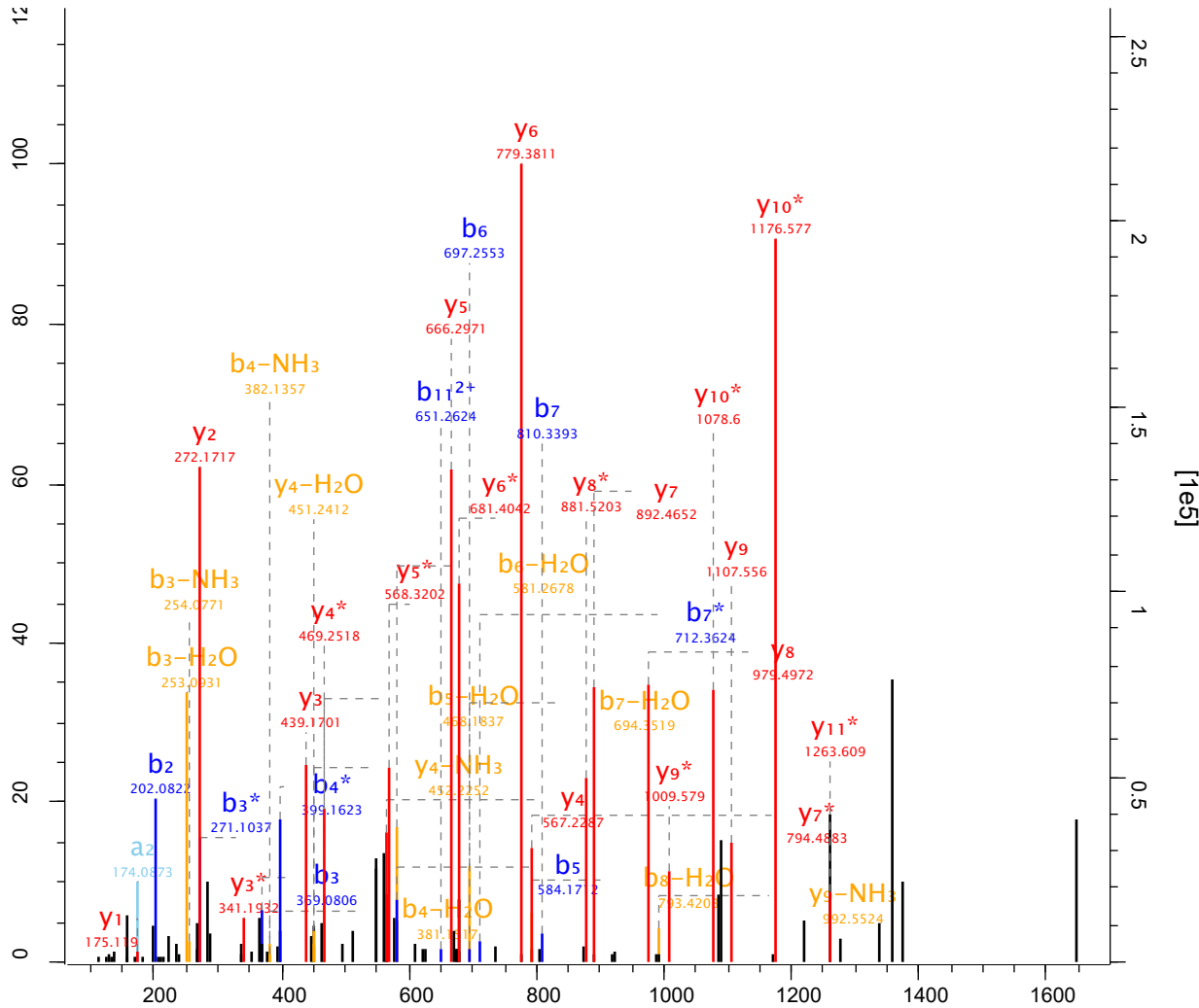
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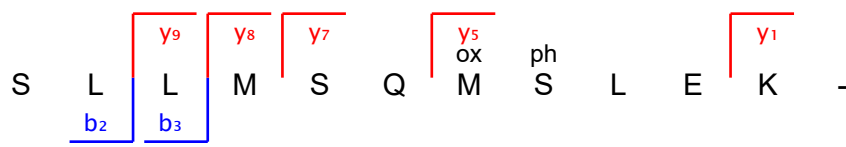
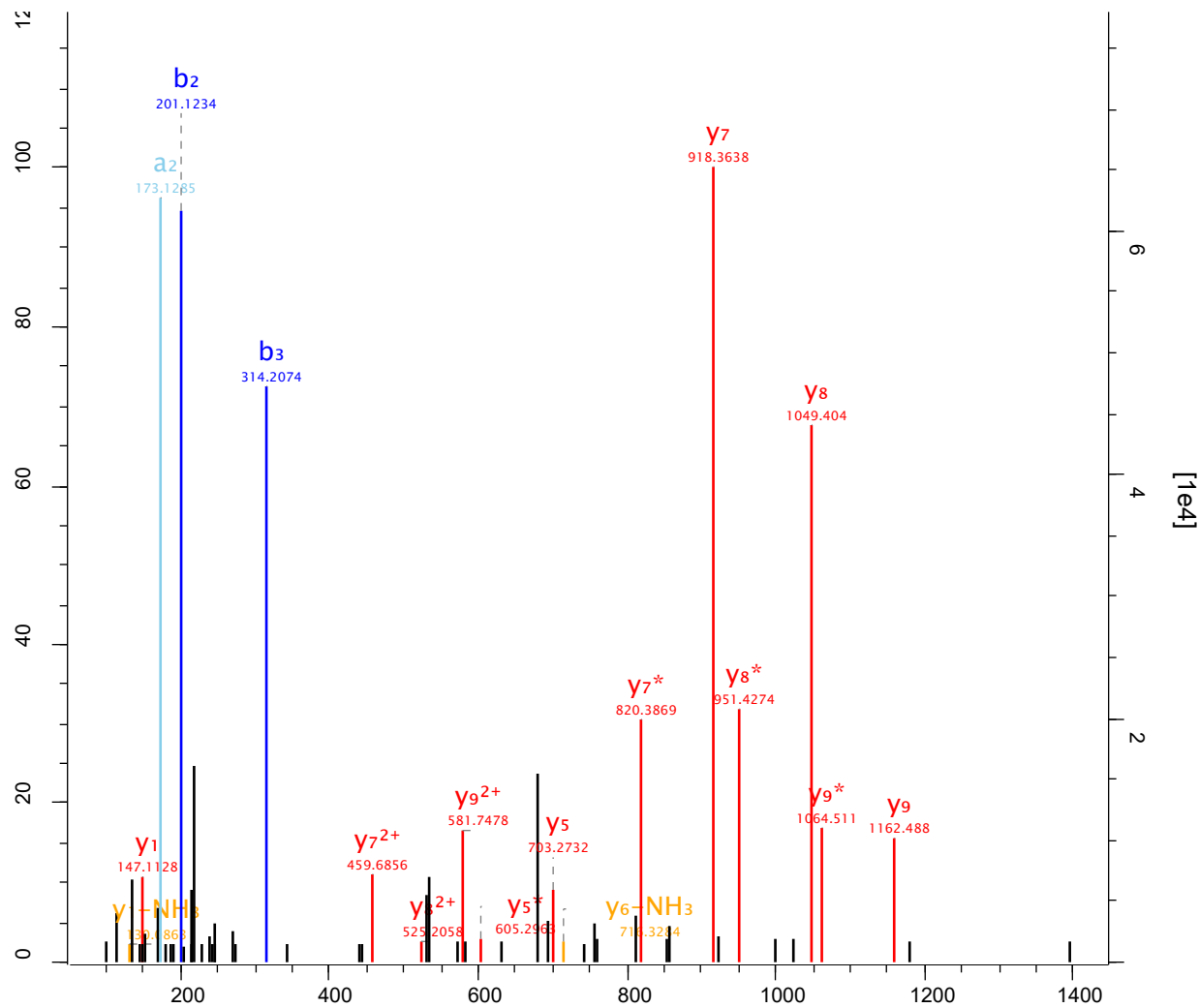


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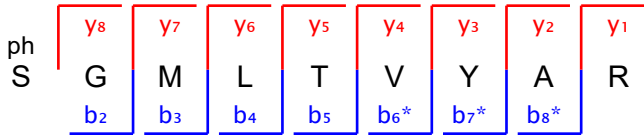
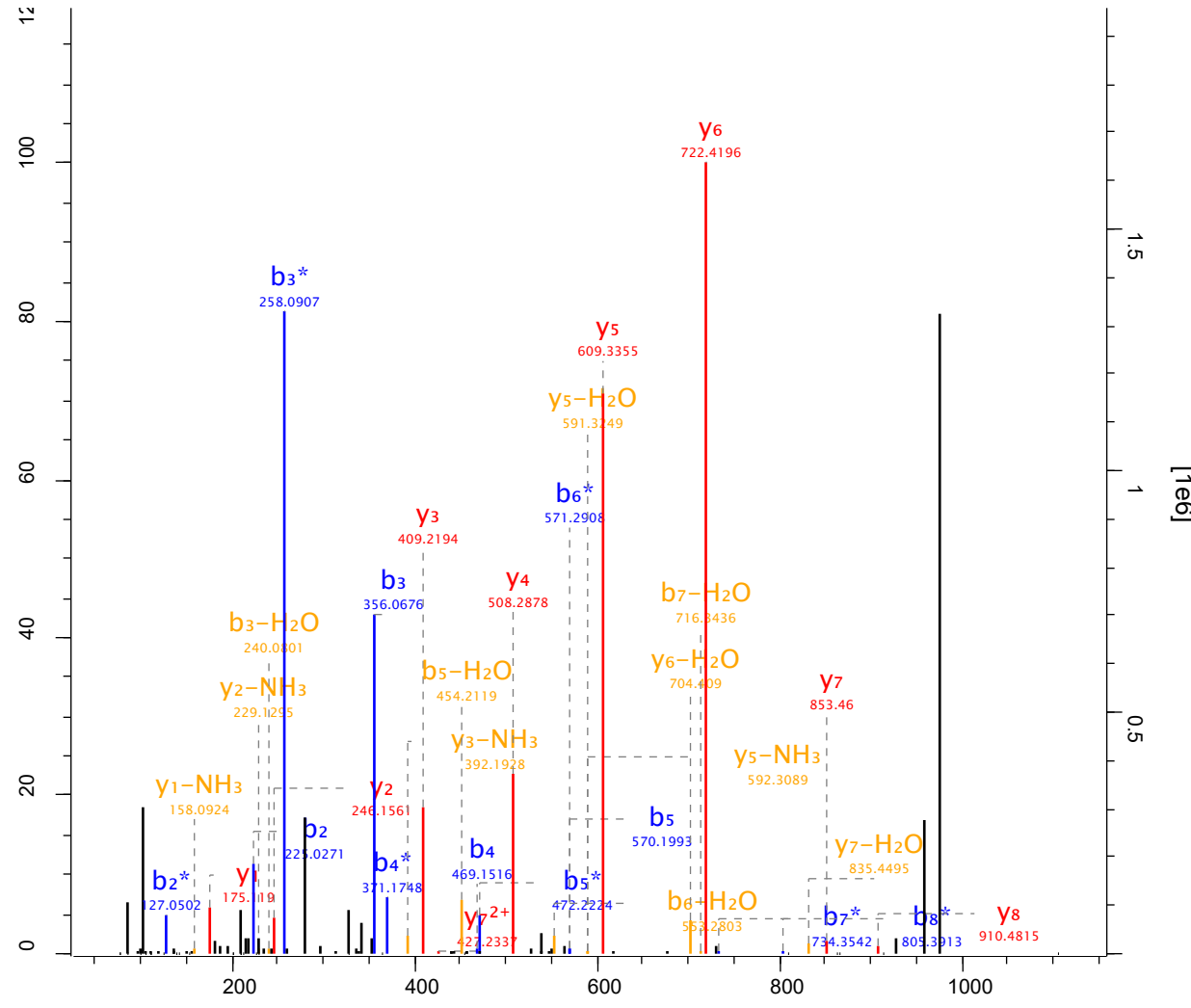




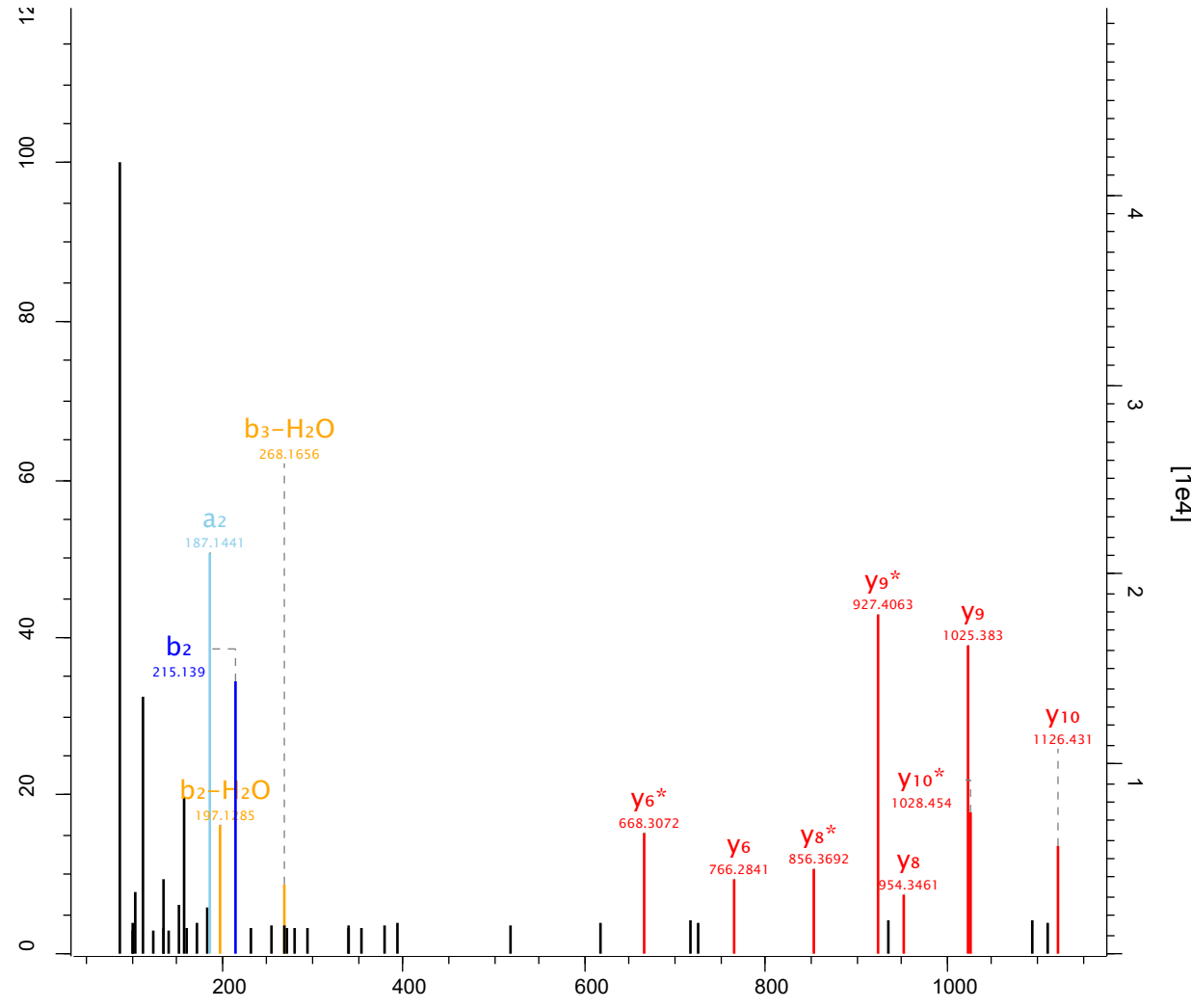
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Raw file Scan Method Score m/z  
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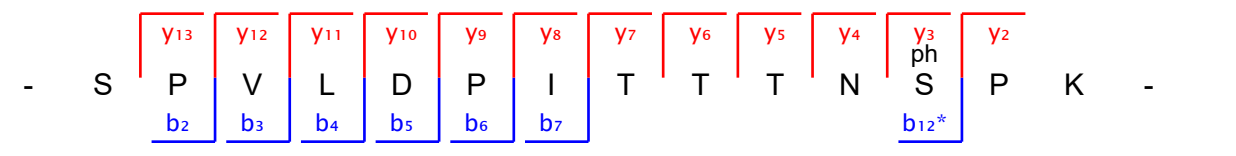
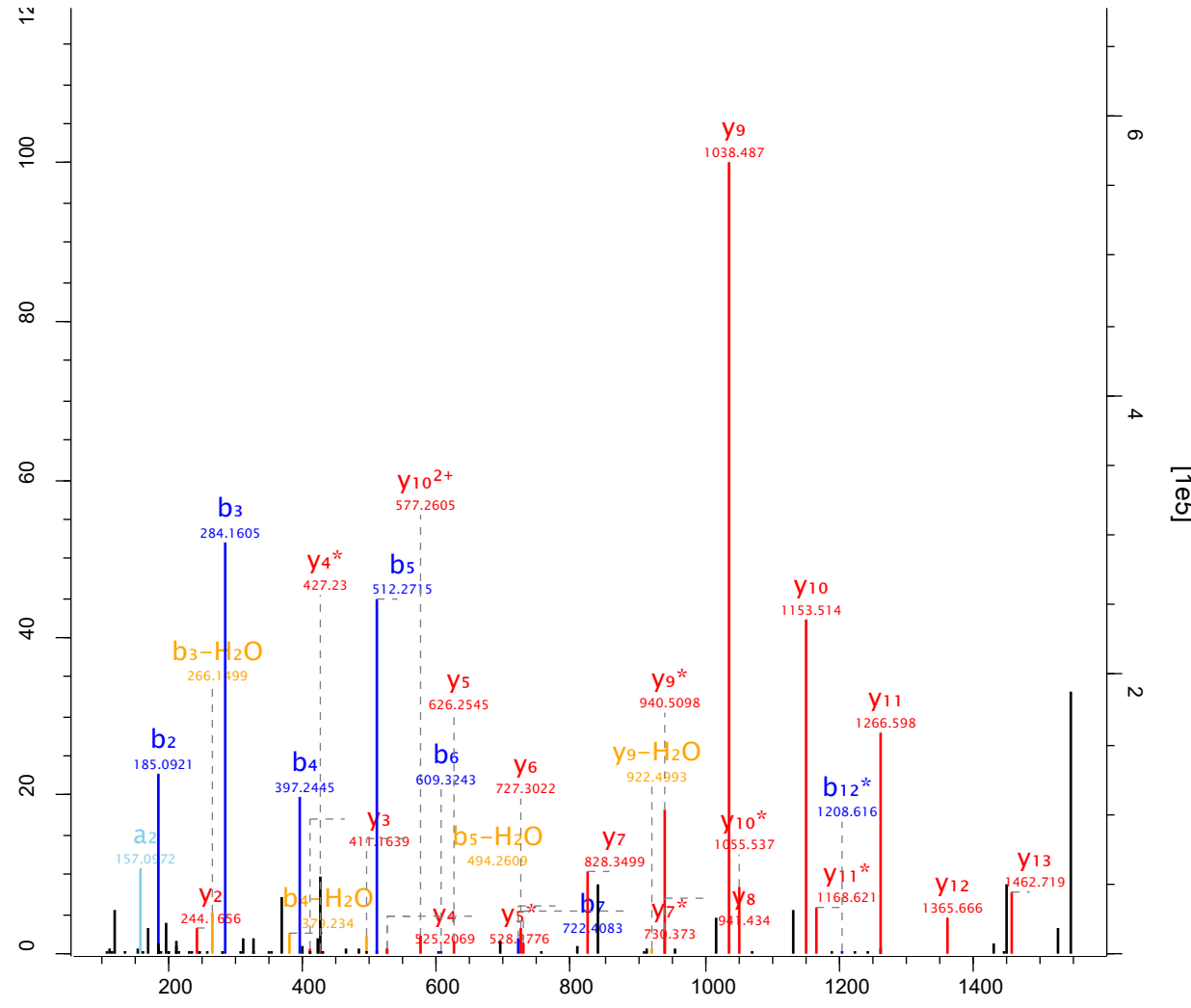
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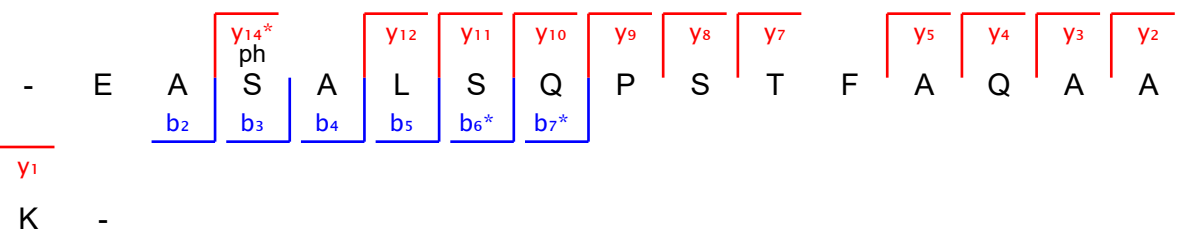
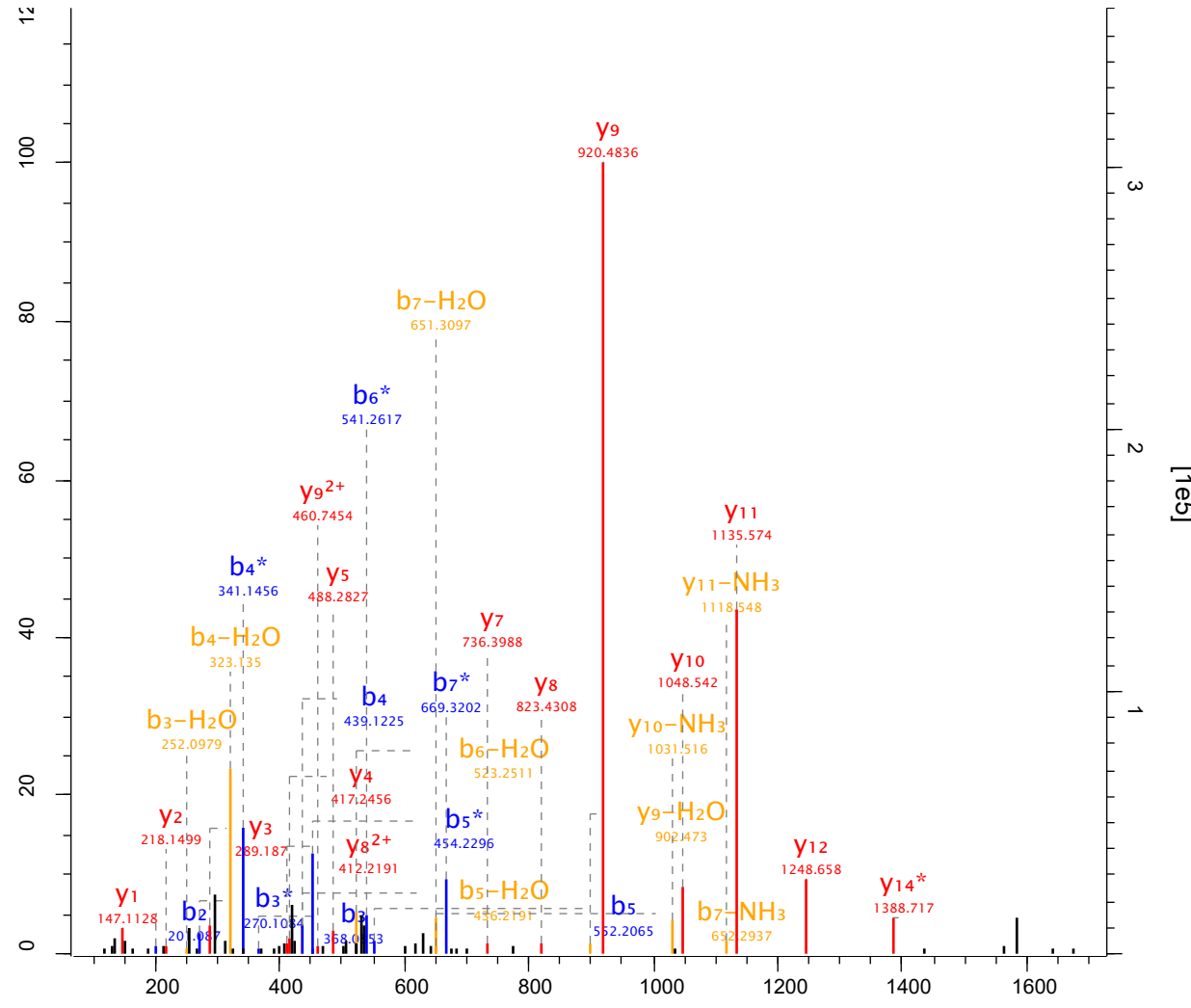
- I T A G M S S M S F K -  
 (Fragmentation labels: y10, y9, y8, y6<sub>ph</sub>, b2)



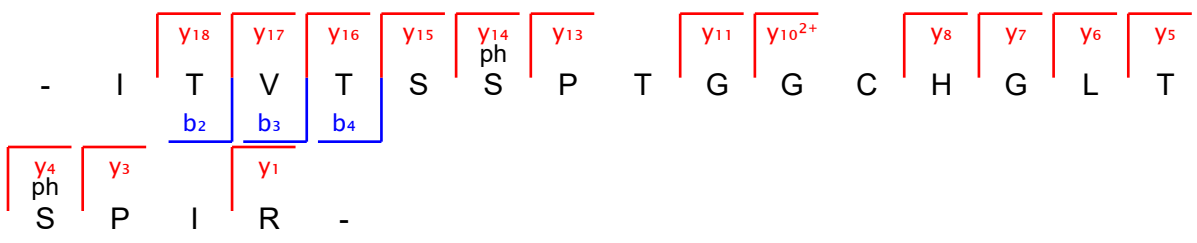
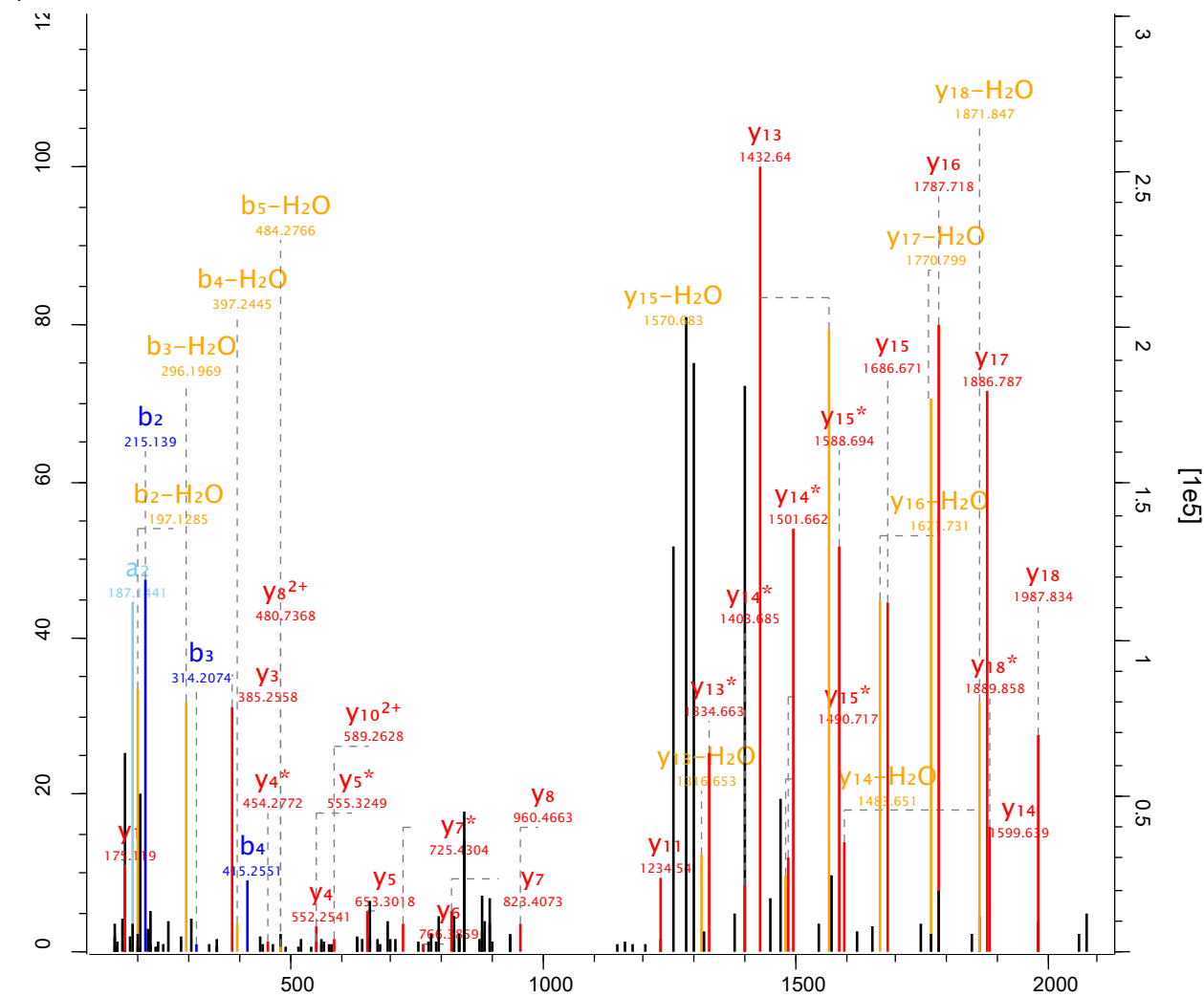
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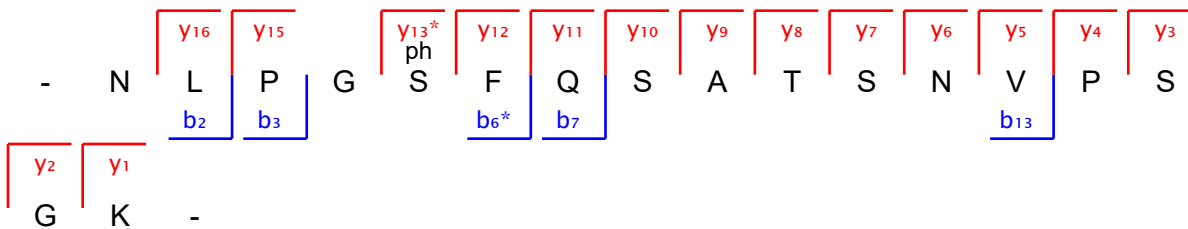
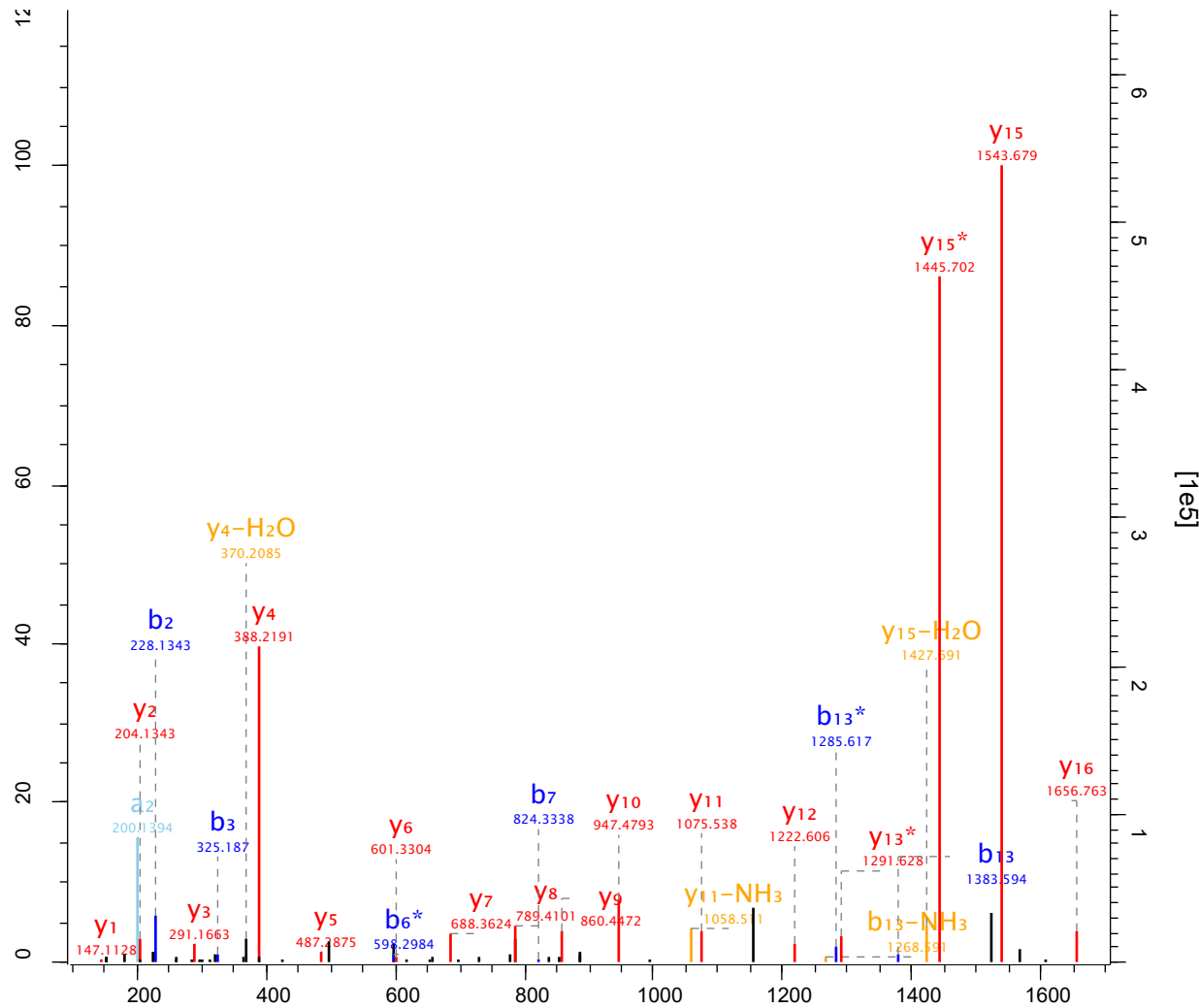
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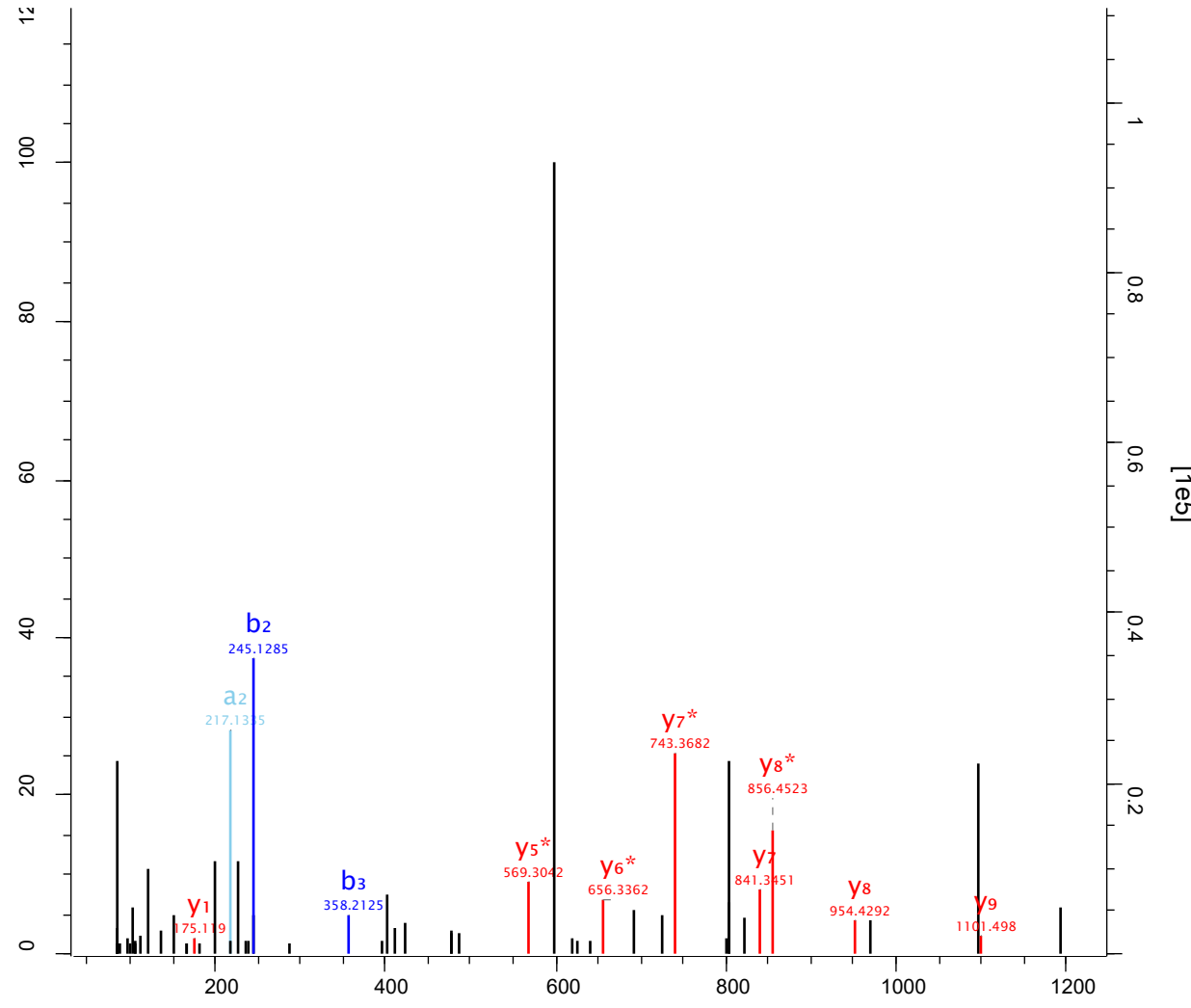
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Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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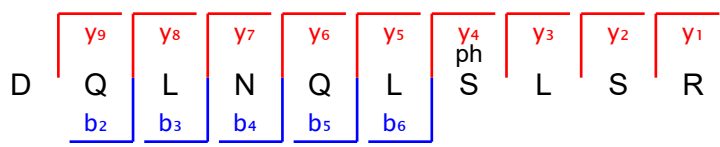
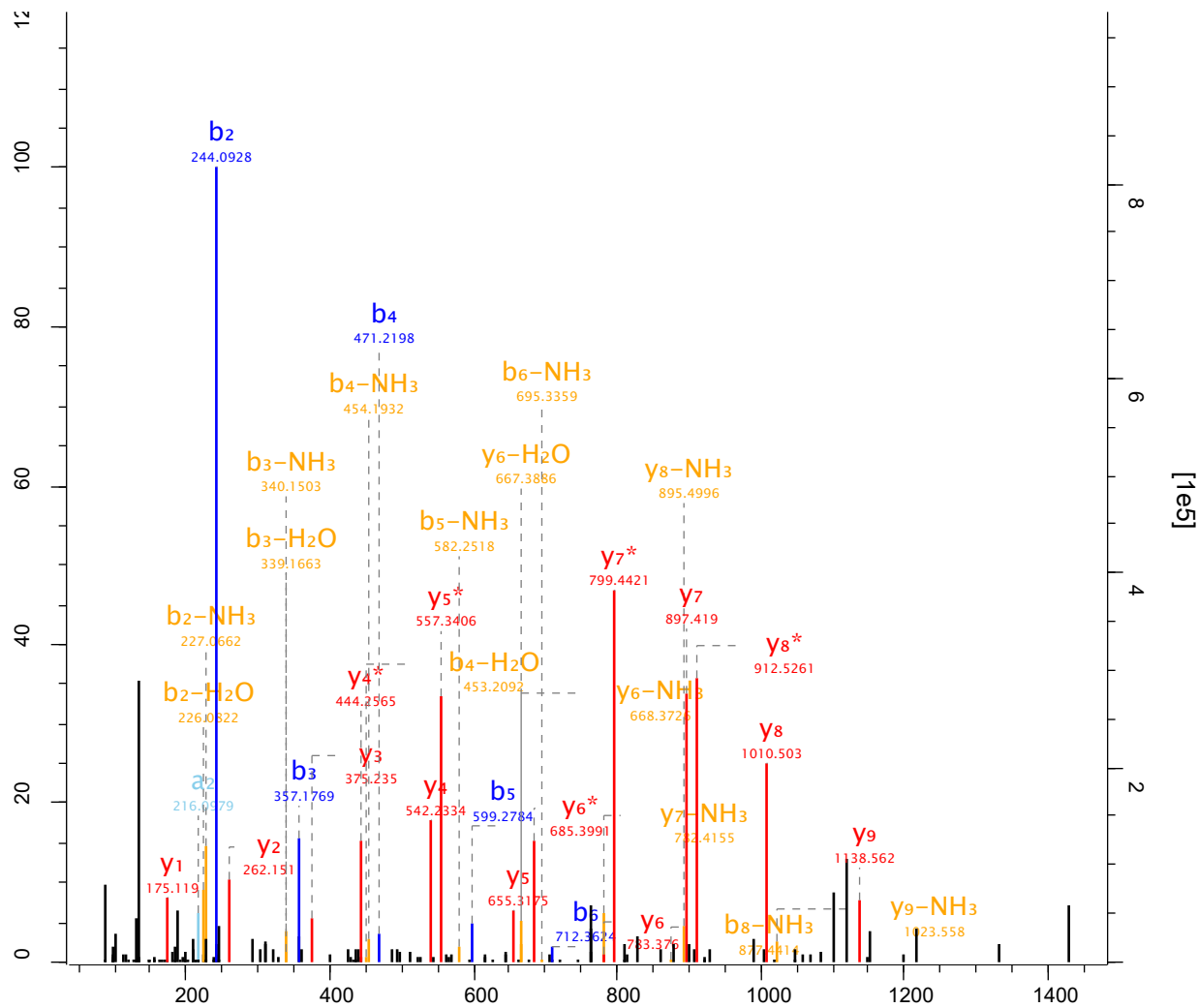


- P F I S S P ph S L D R -

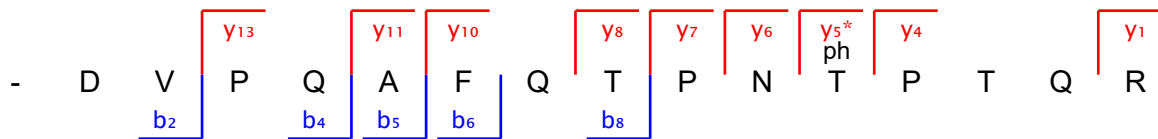
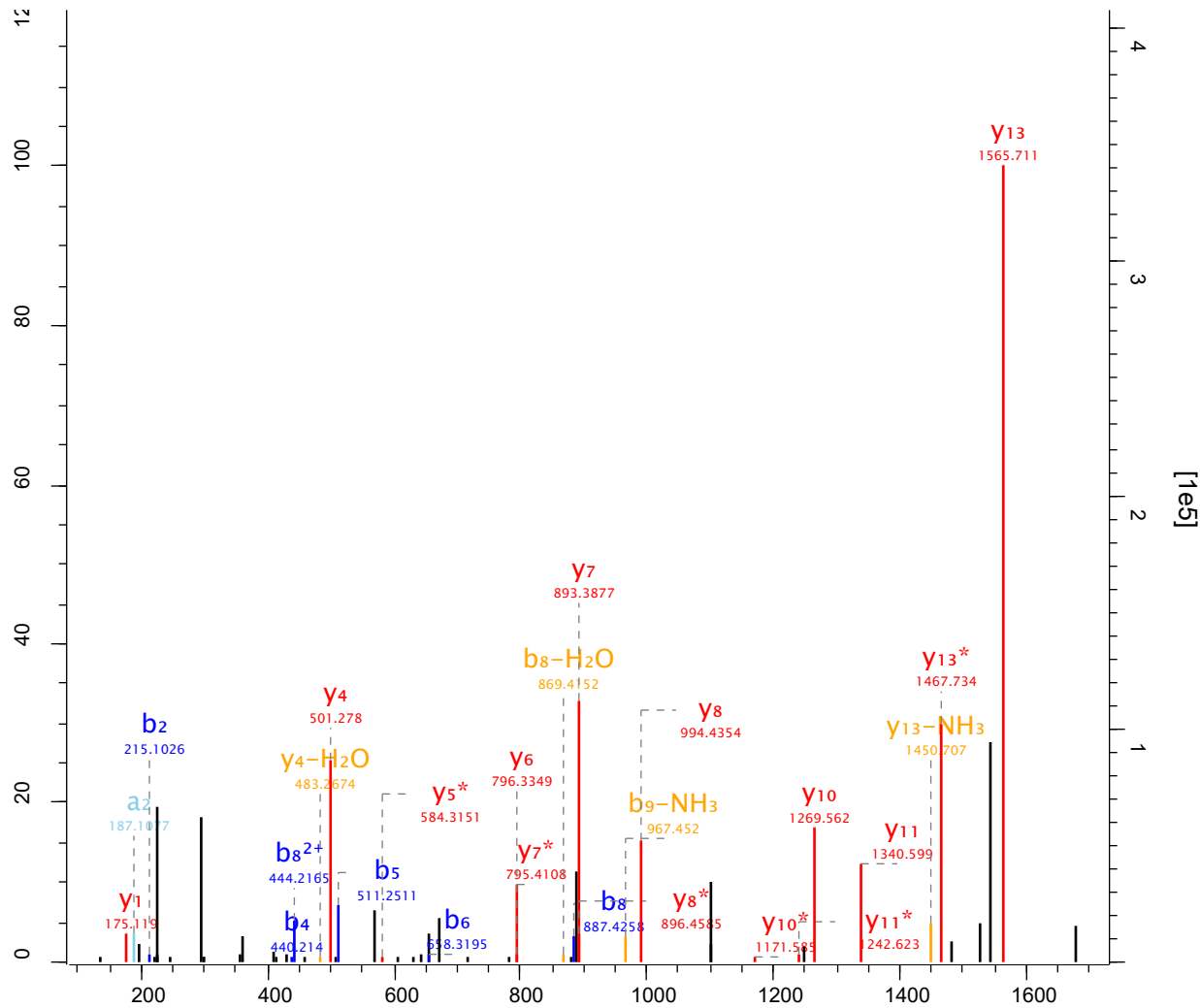
y9
y8
y7
y6\*
y5\*
y1

b2
b3

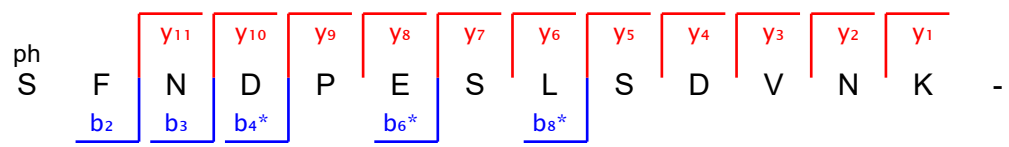
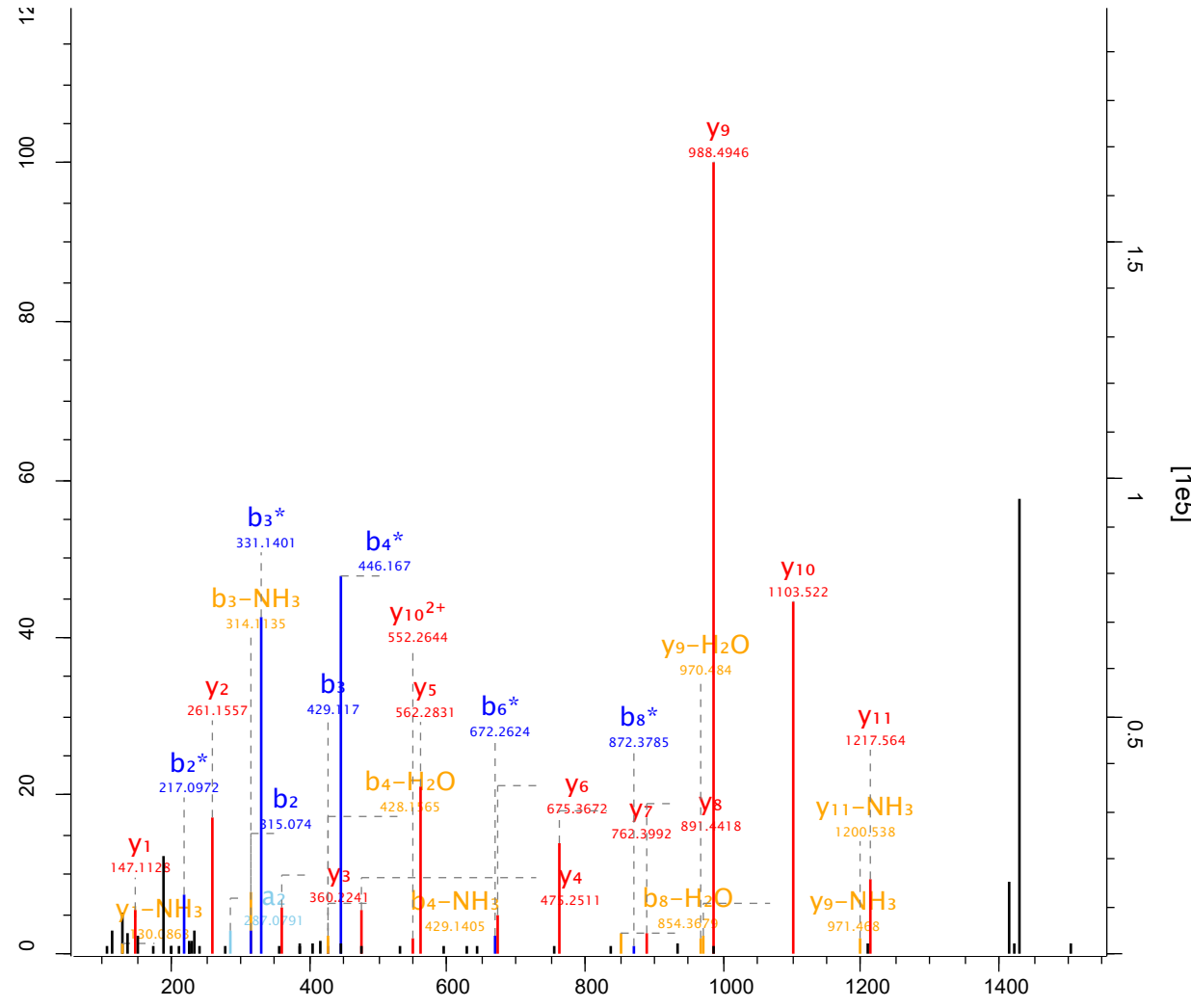
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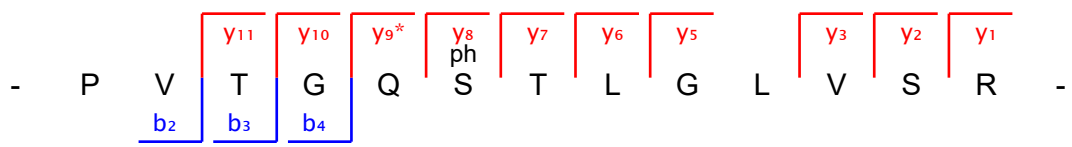
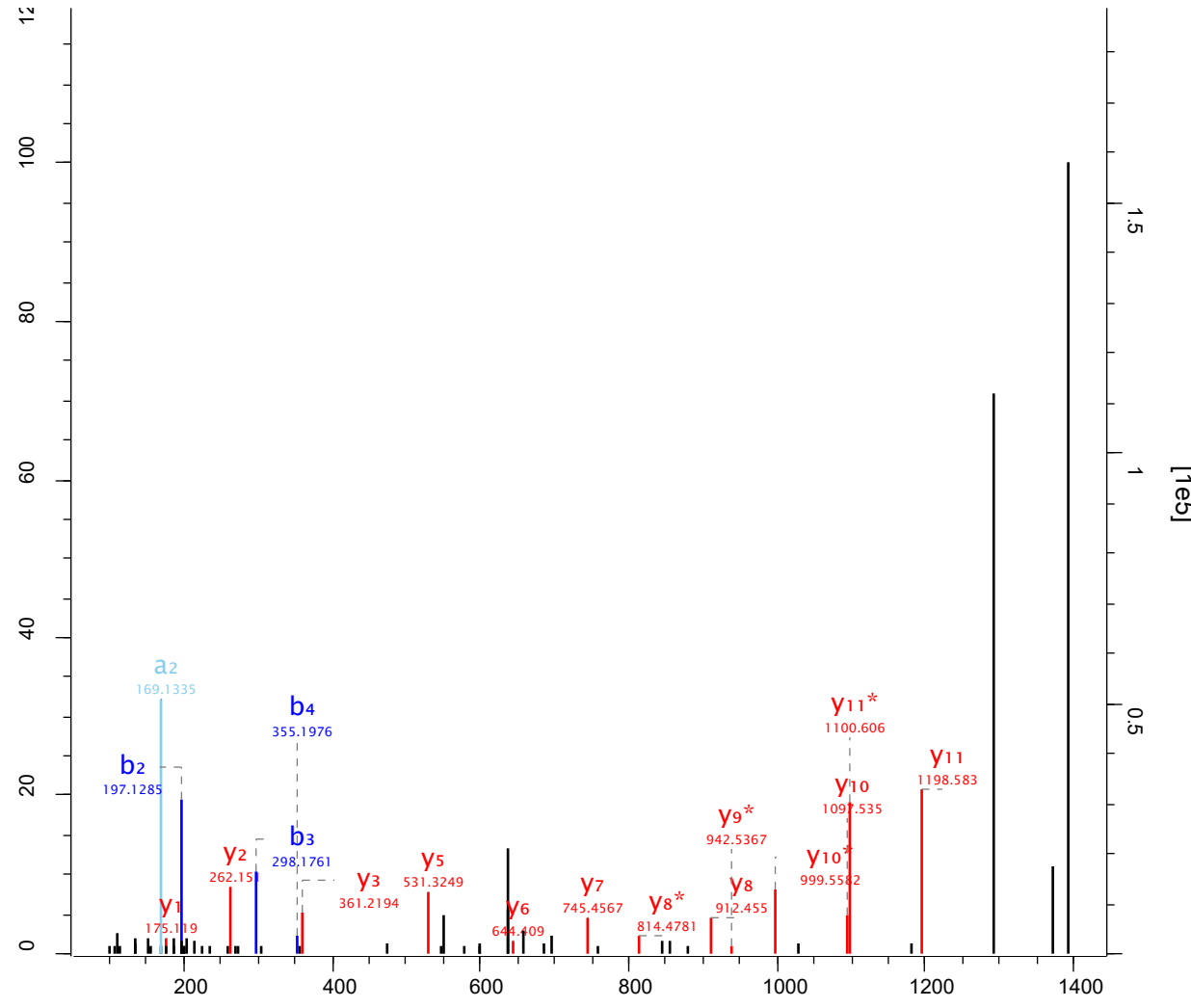


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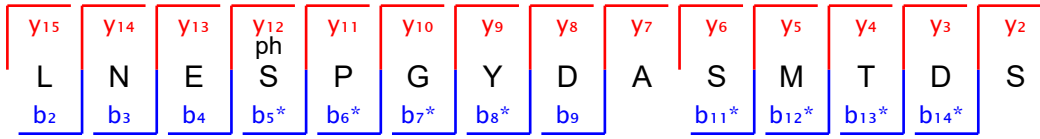
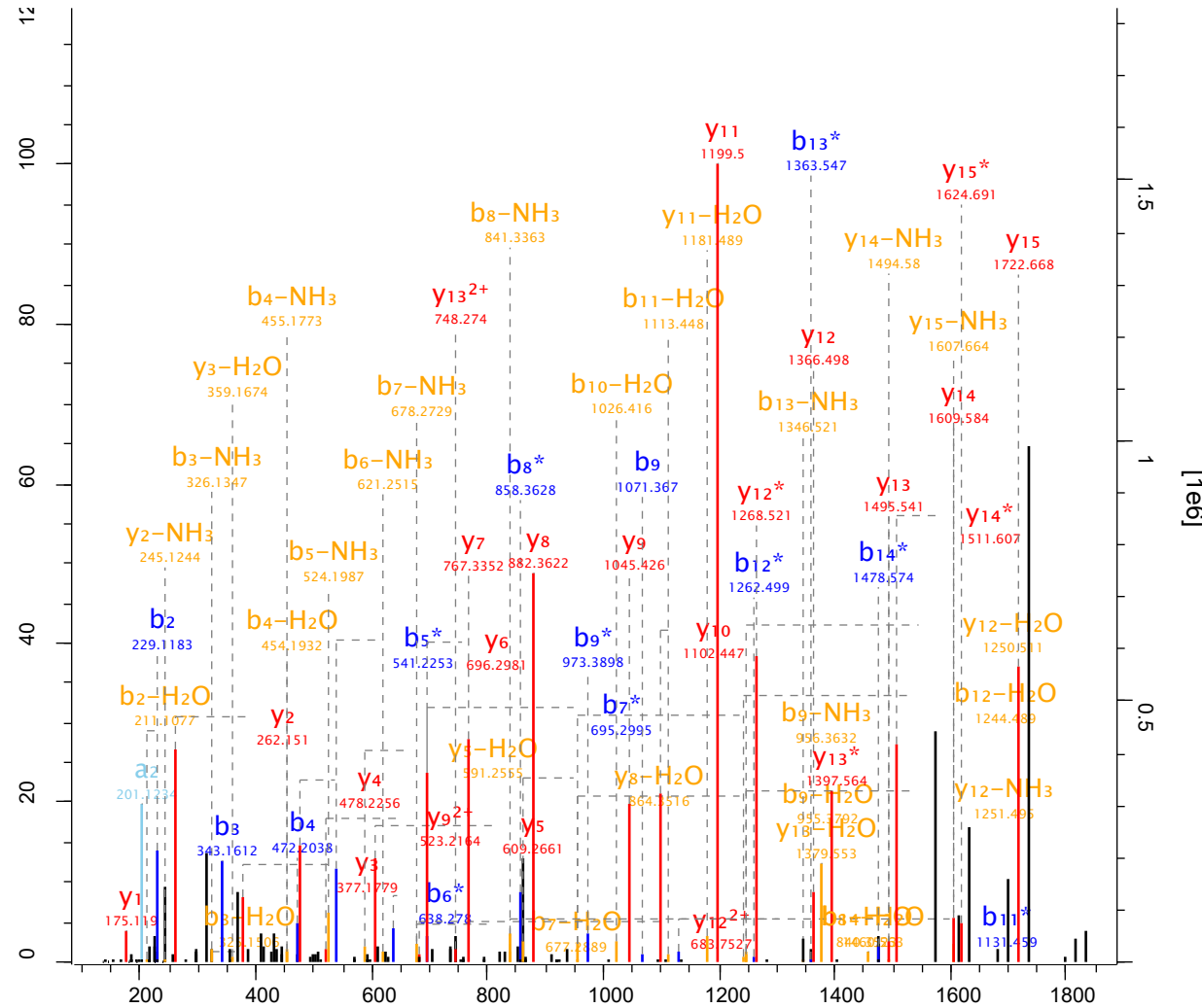




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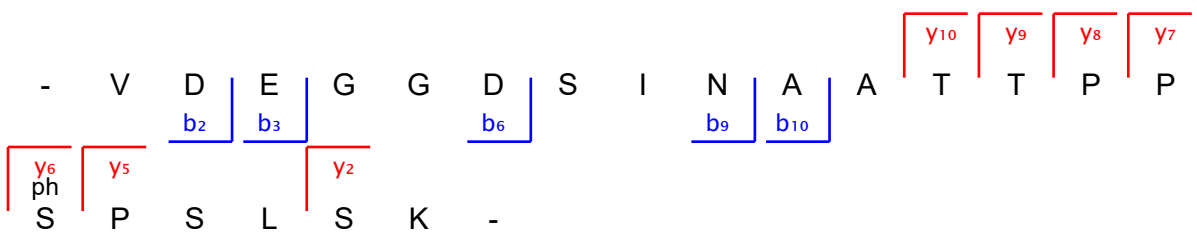
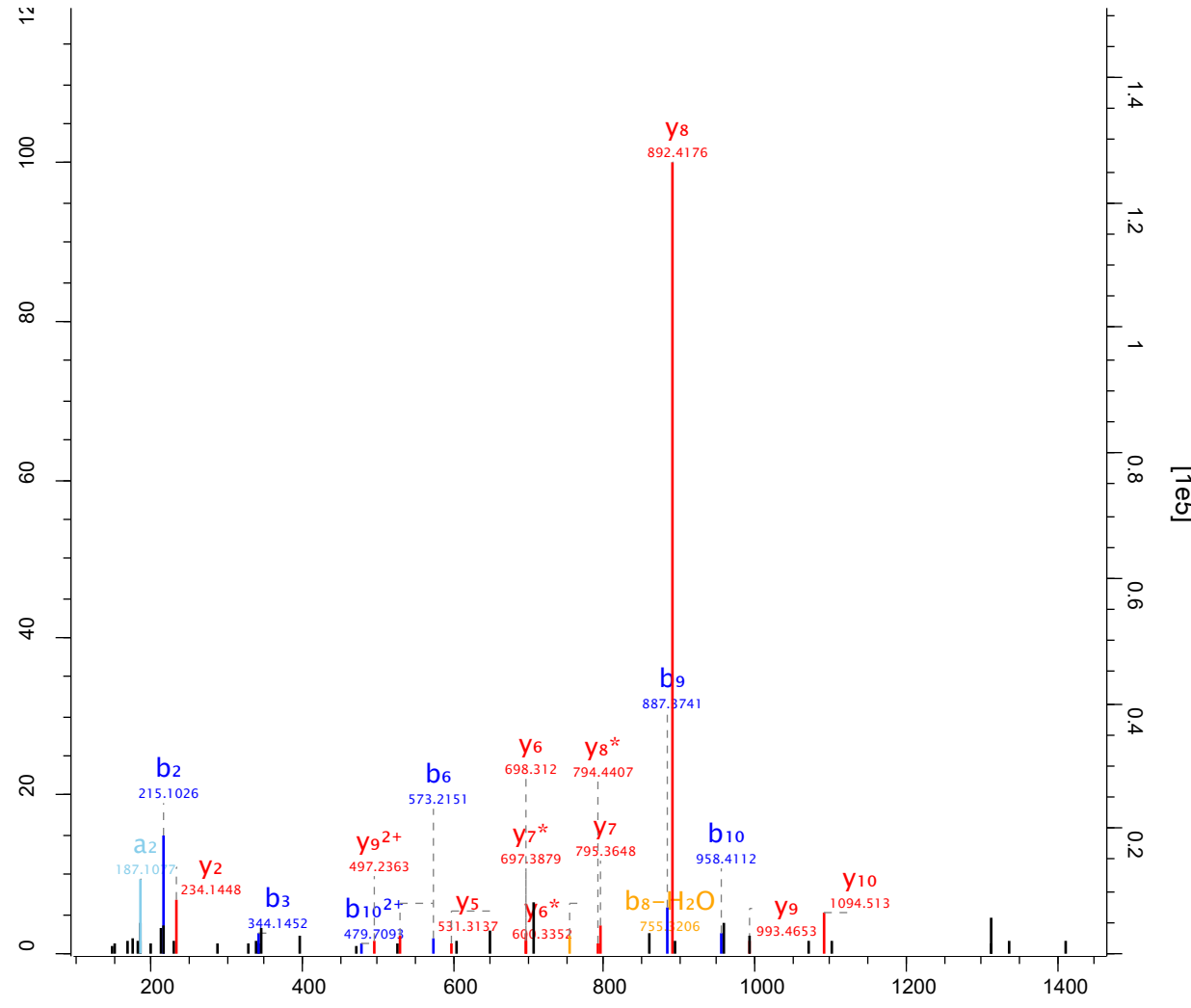


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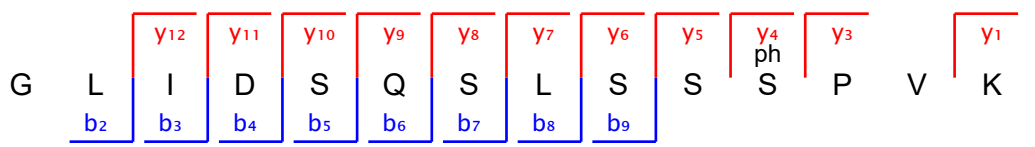
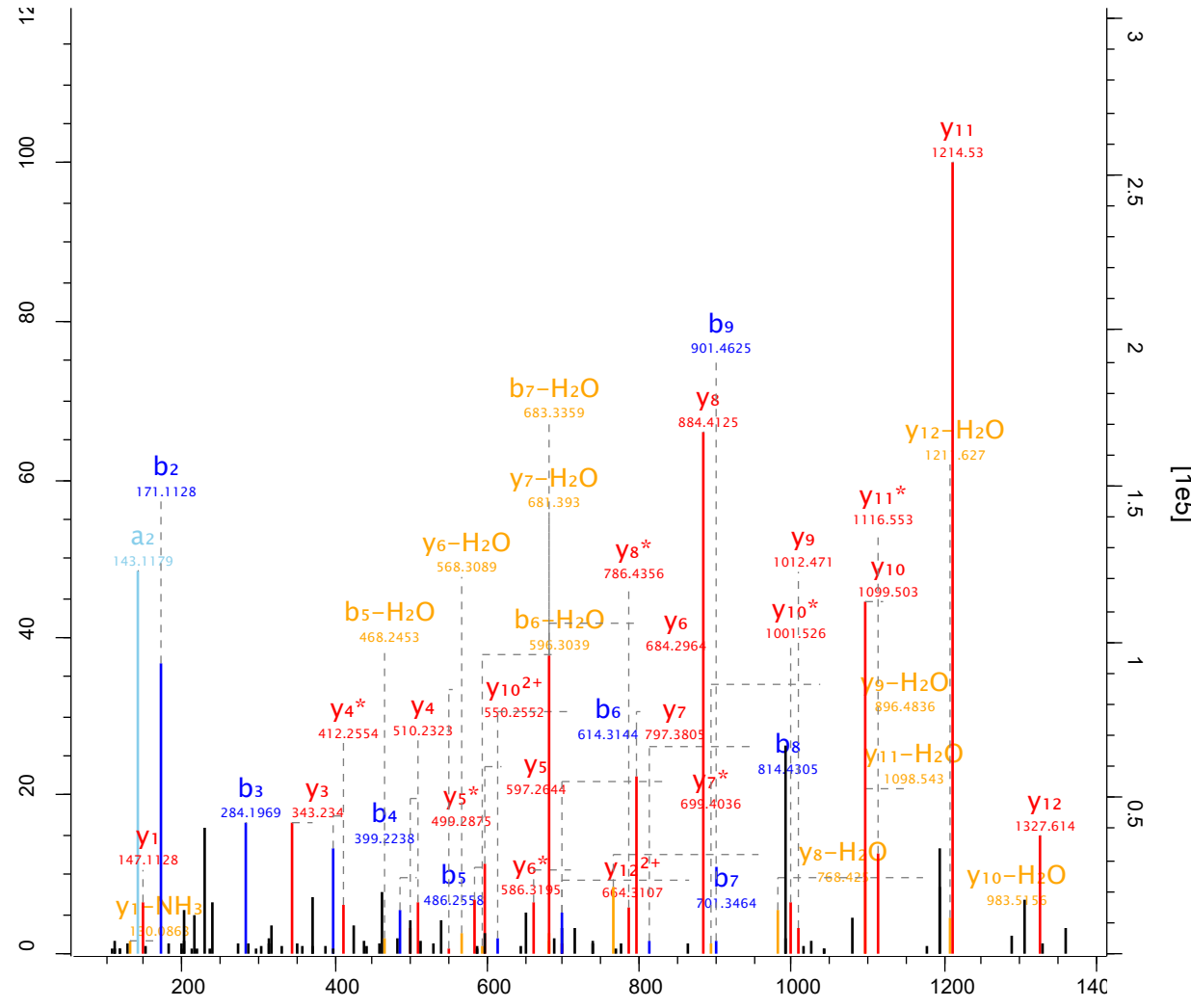


R -  
 y1

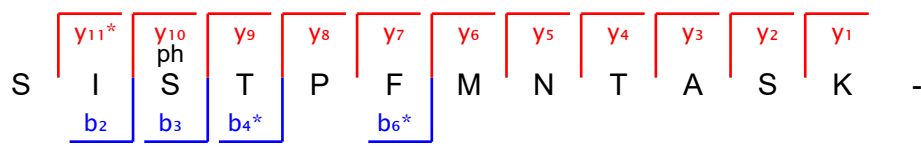
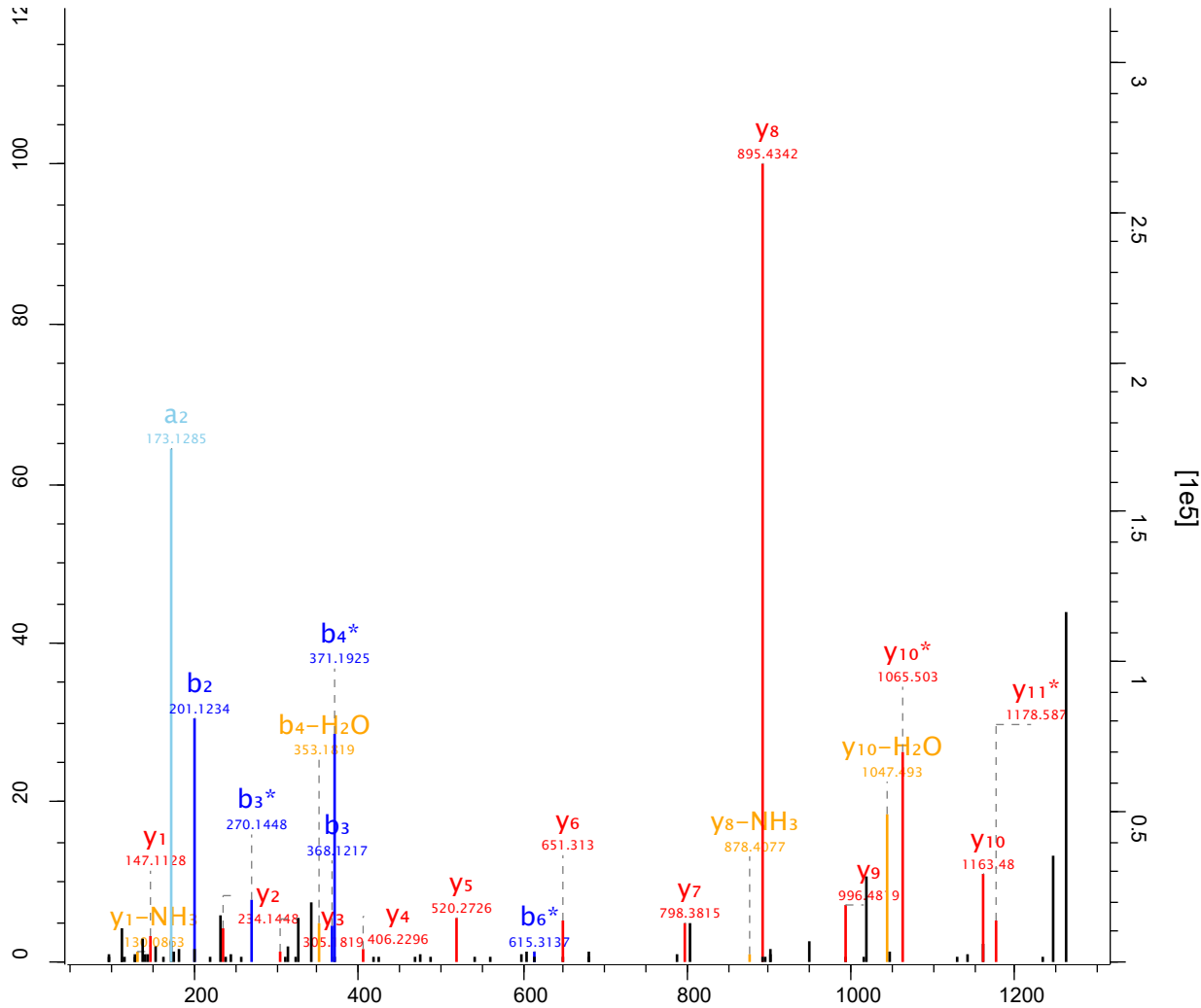
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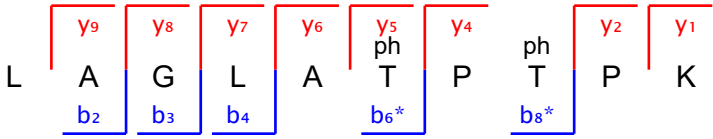
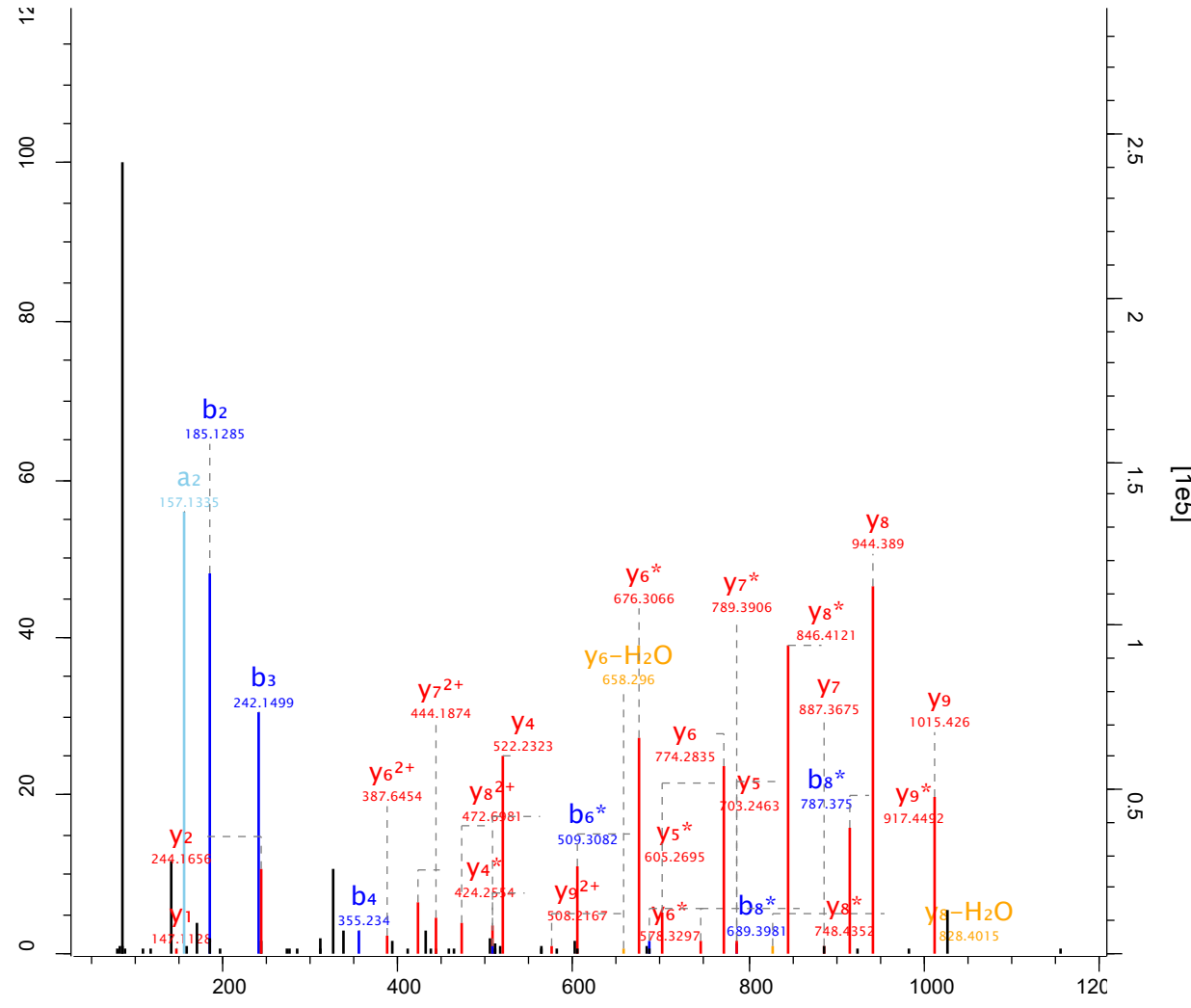
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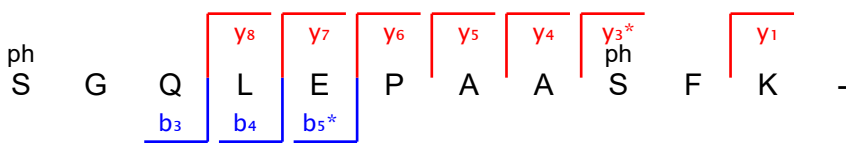
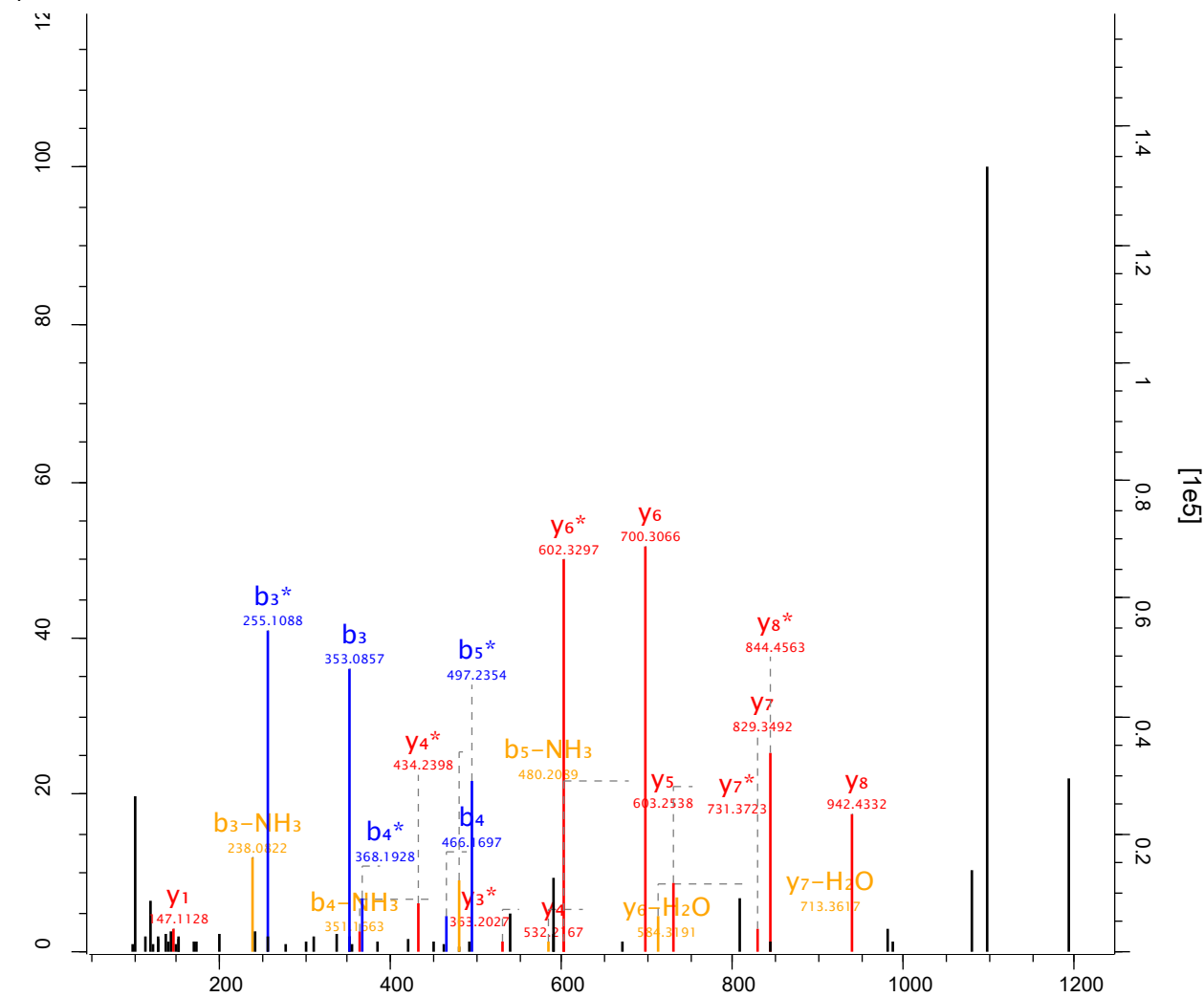
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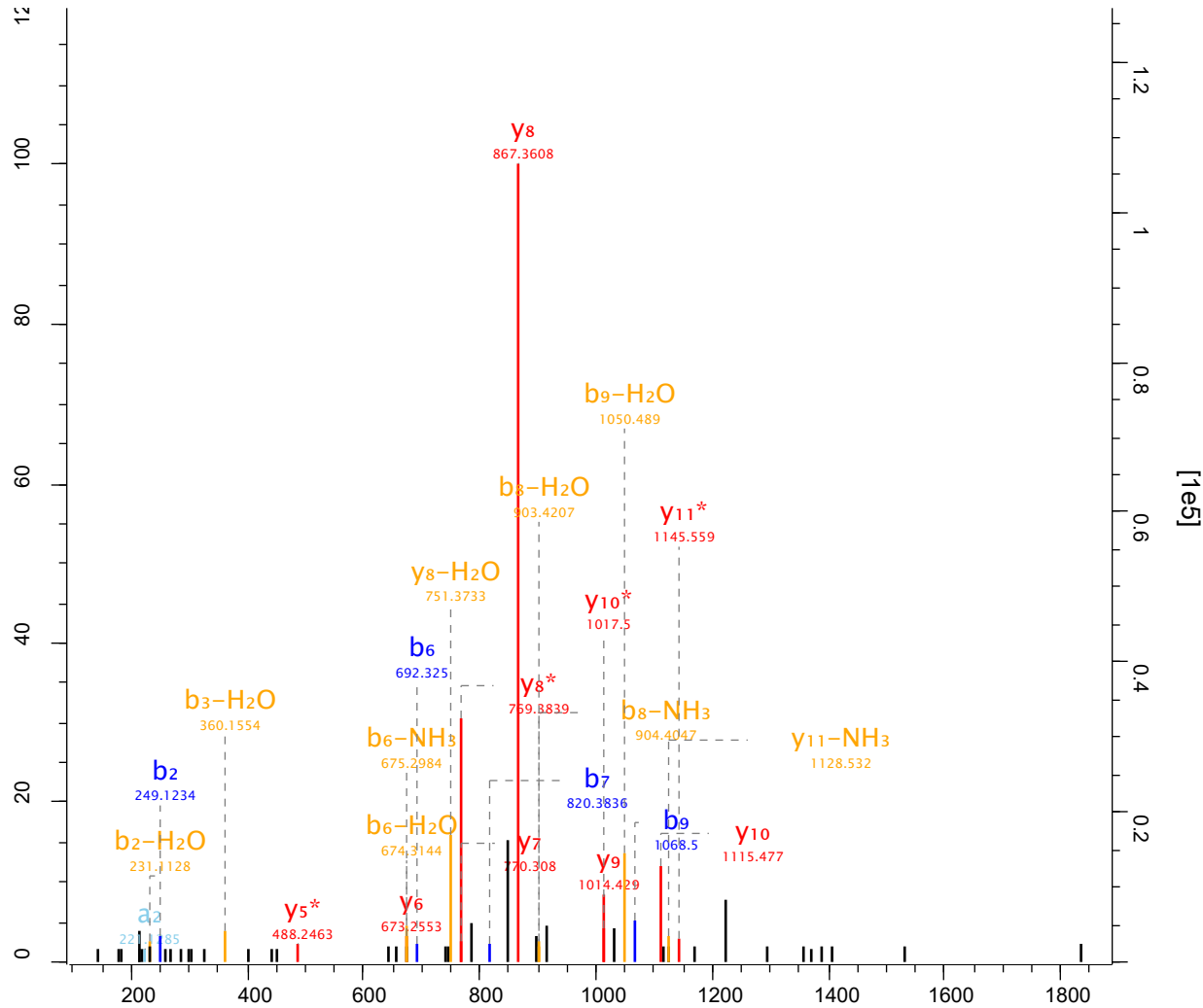
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Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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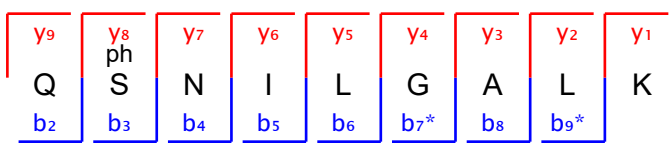
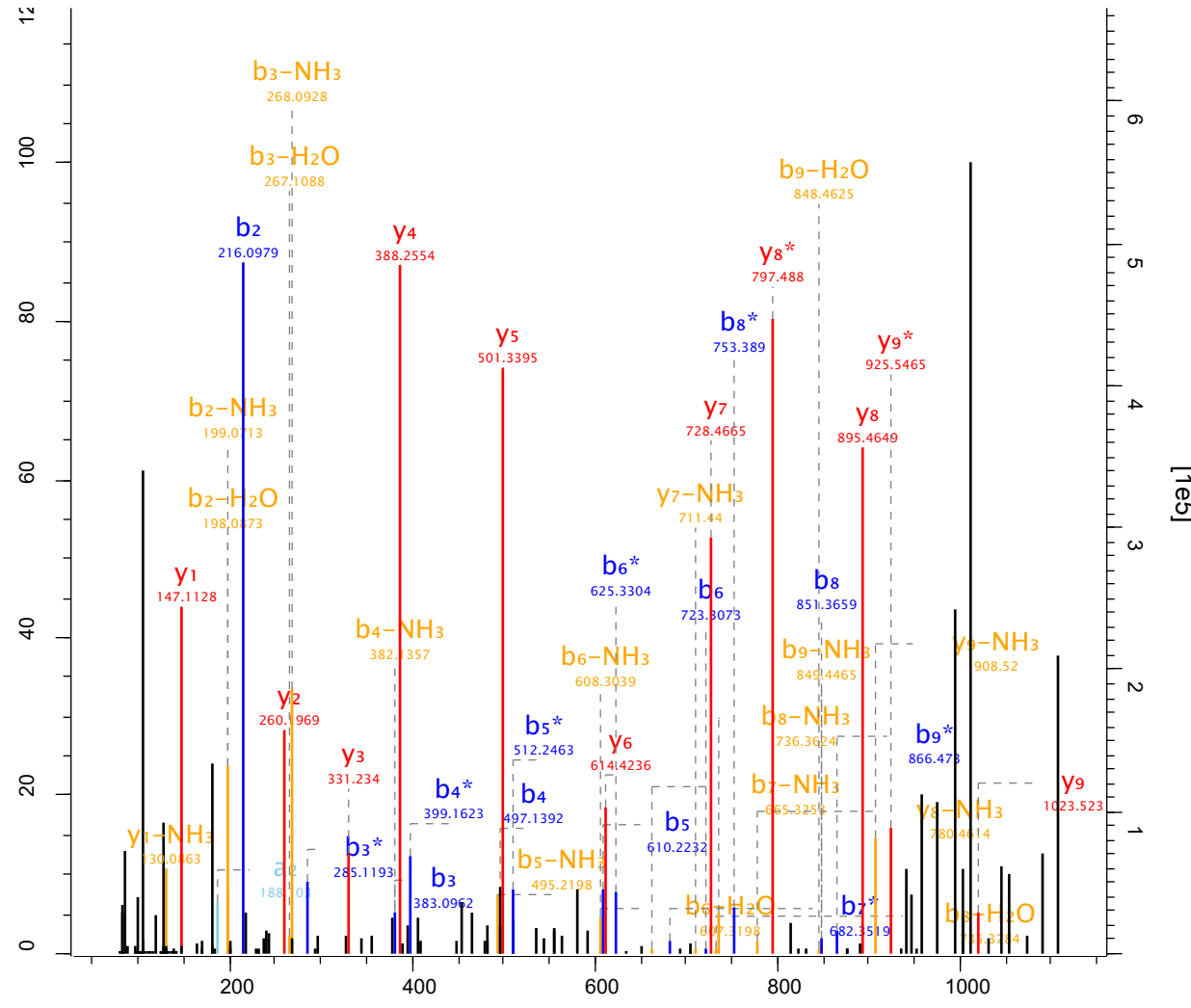


- F T E S N L Q T F P P S S Q  
 b2 b6 b7 b9 y11\* y10 y9 y8 y7 y6 y5\*  
 ph

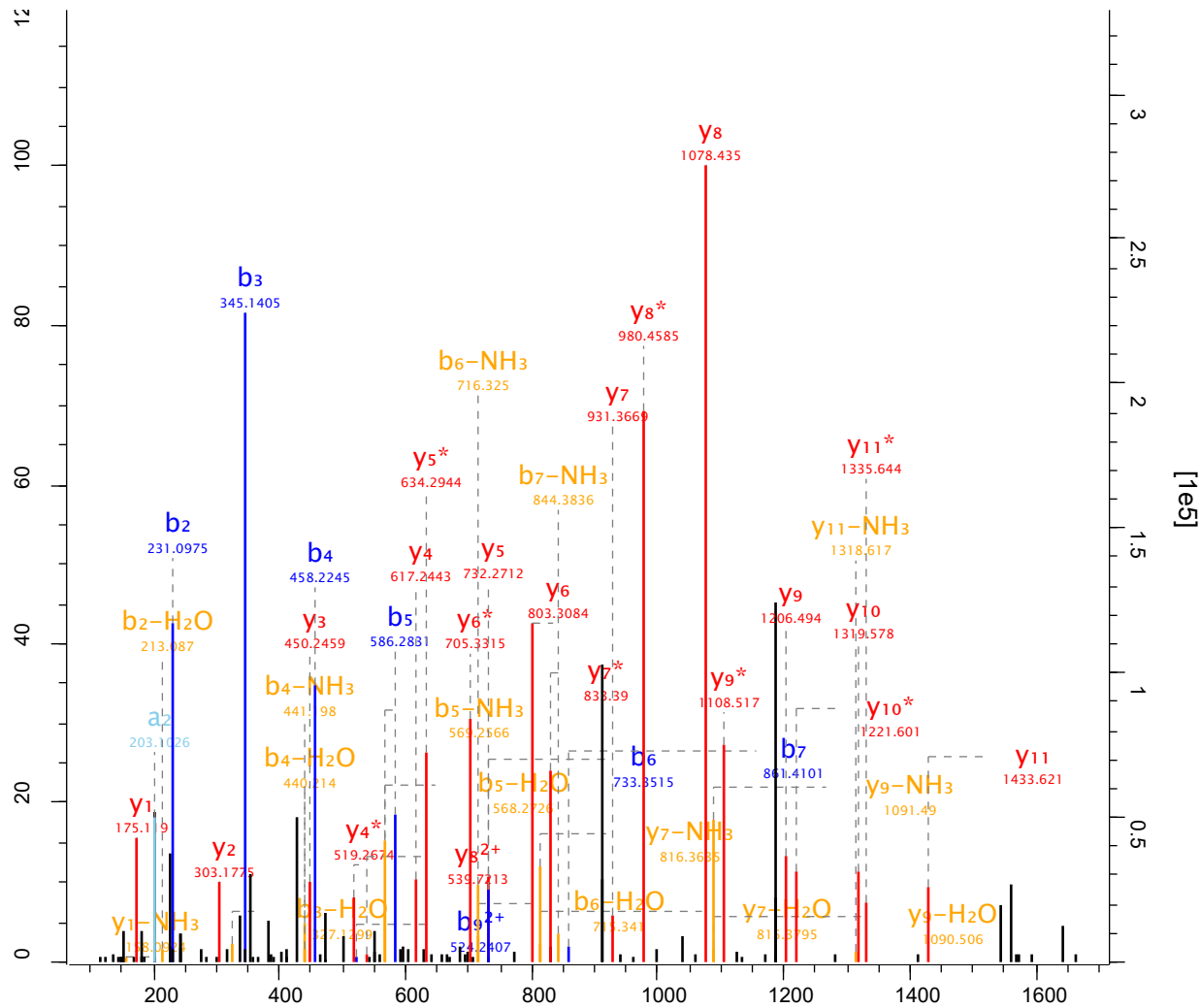
G K -



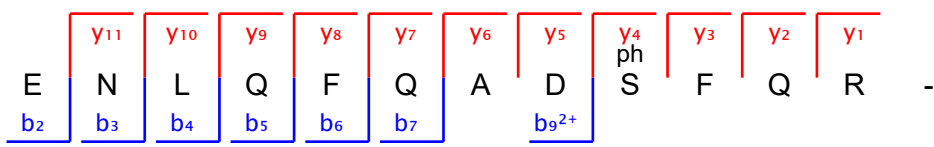
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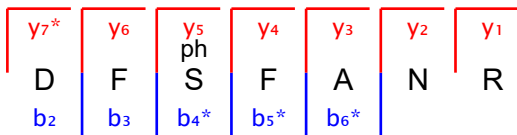
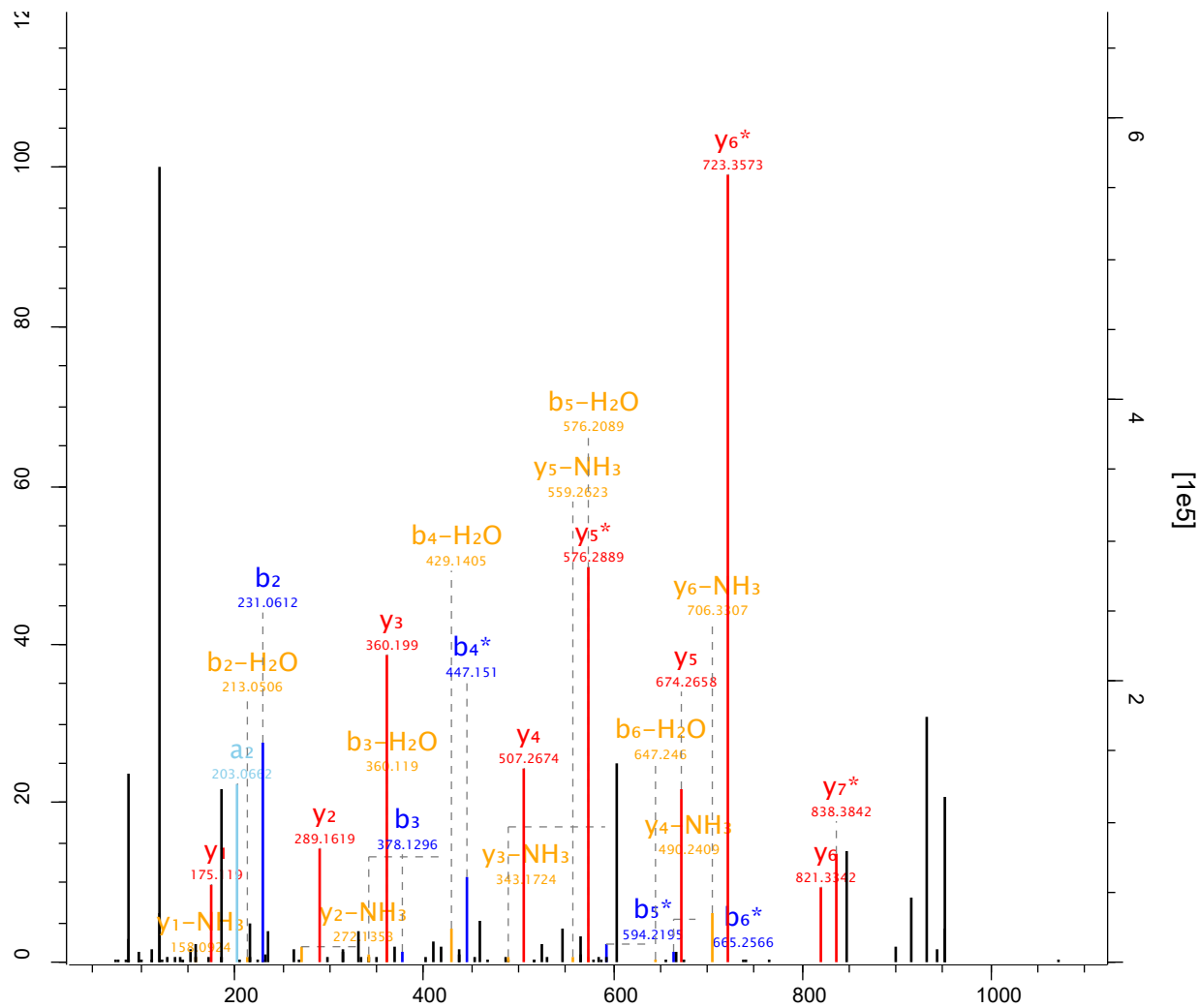
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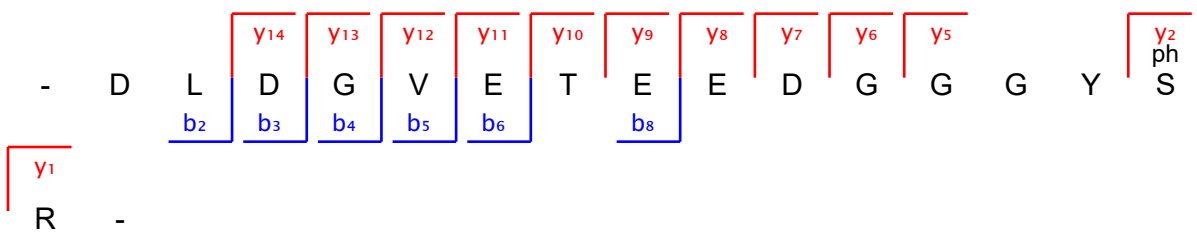
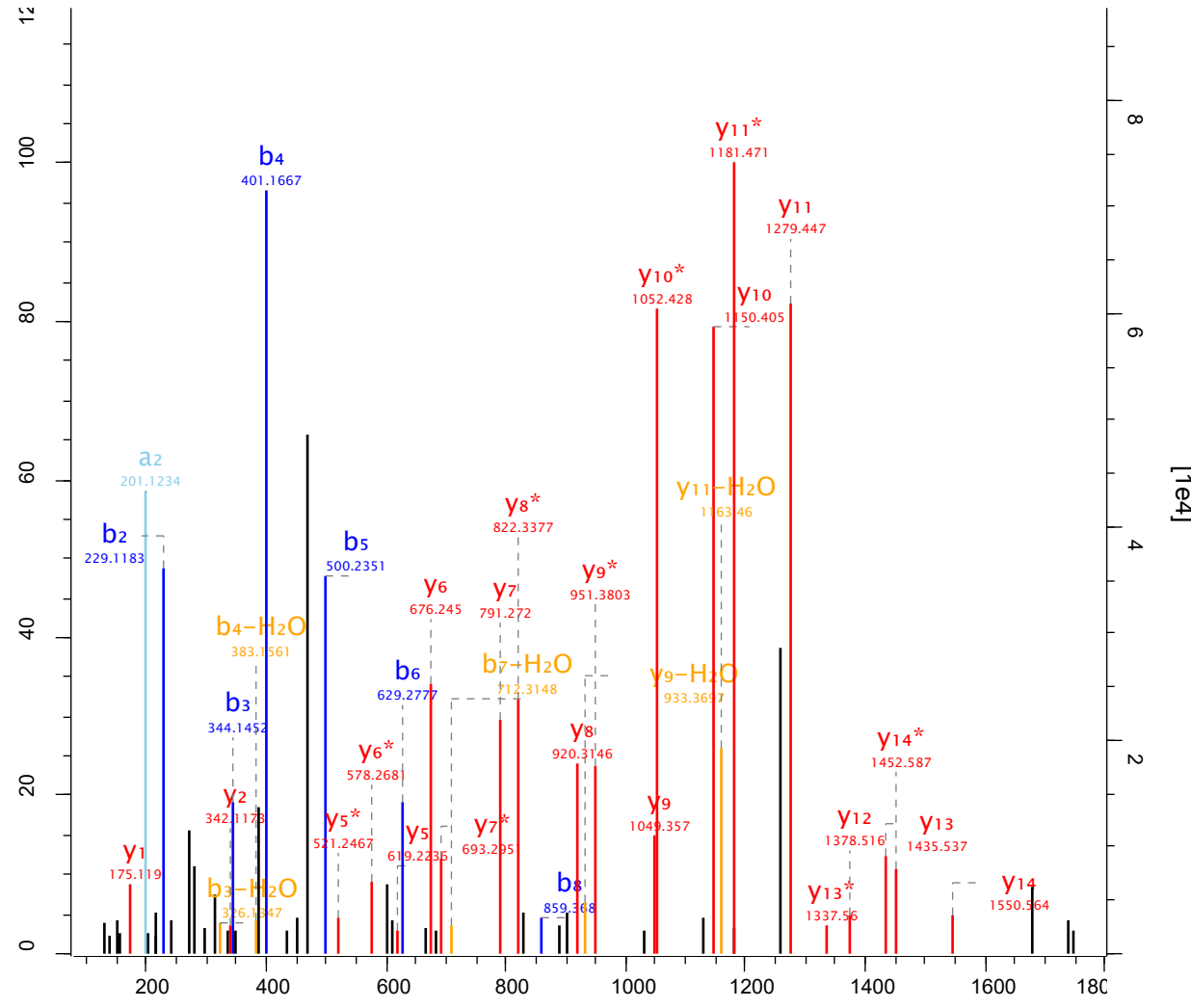
[1e5]



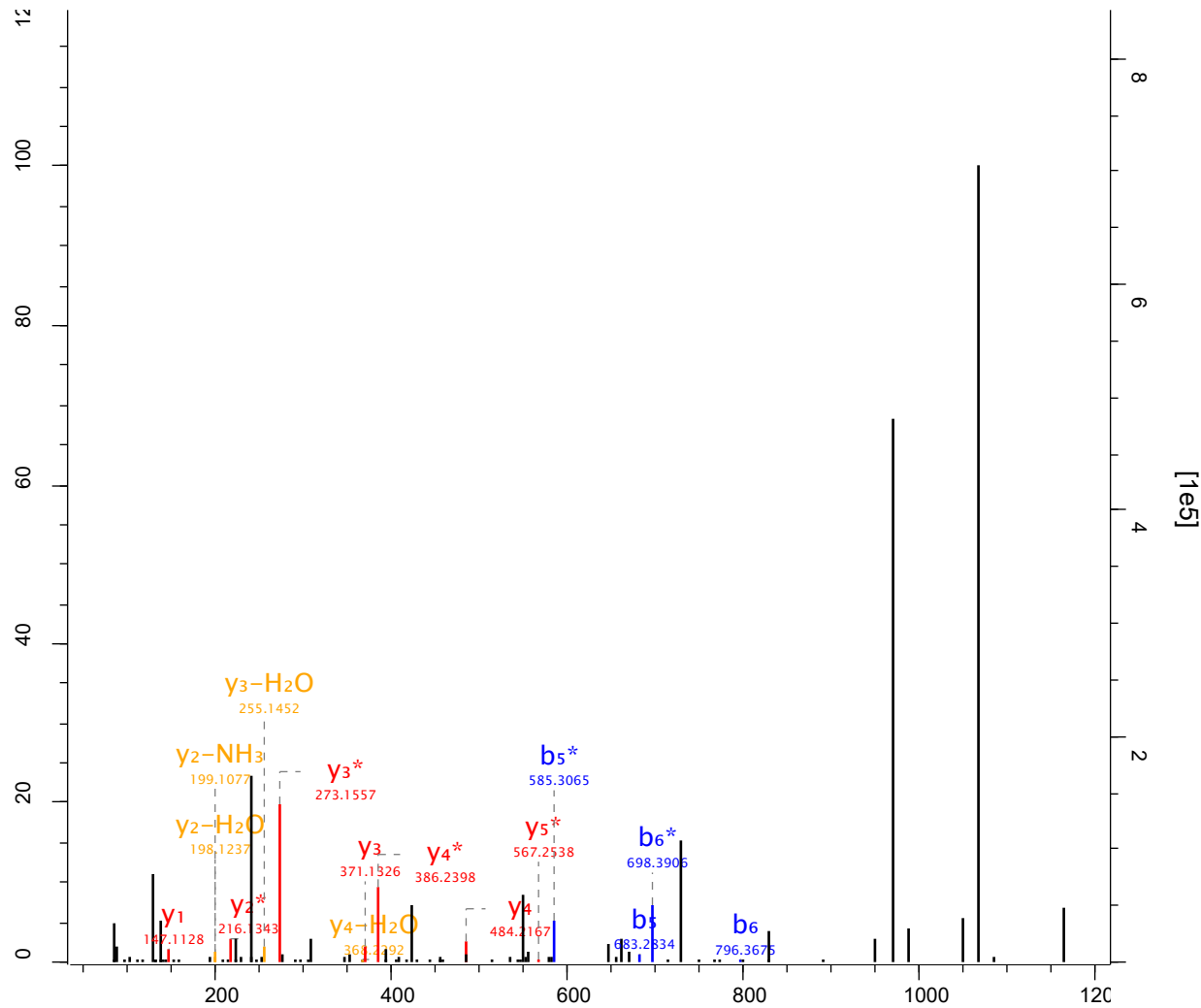
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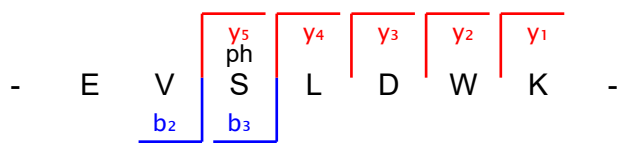
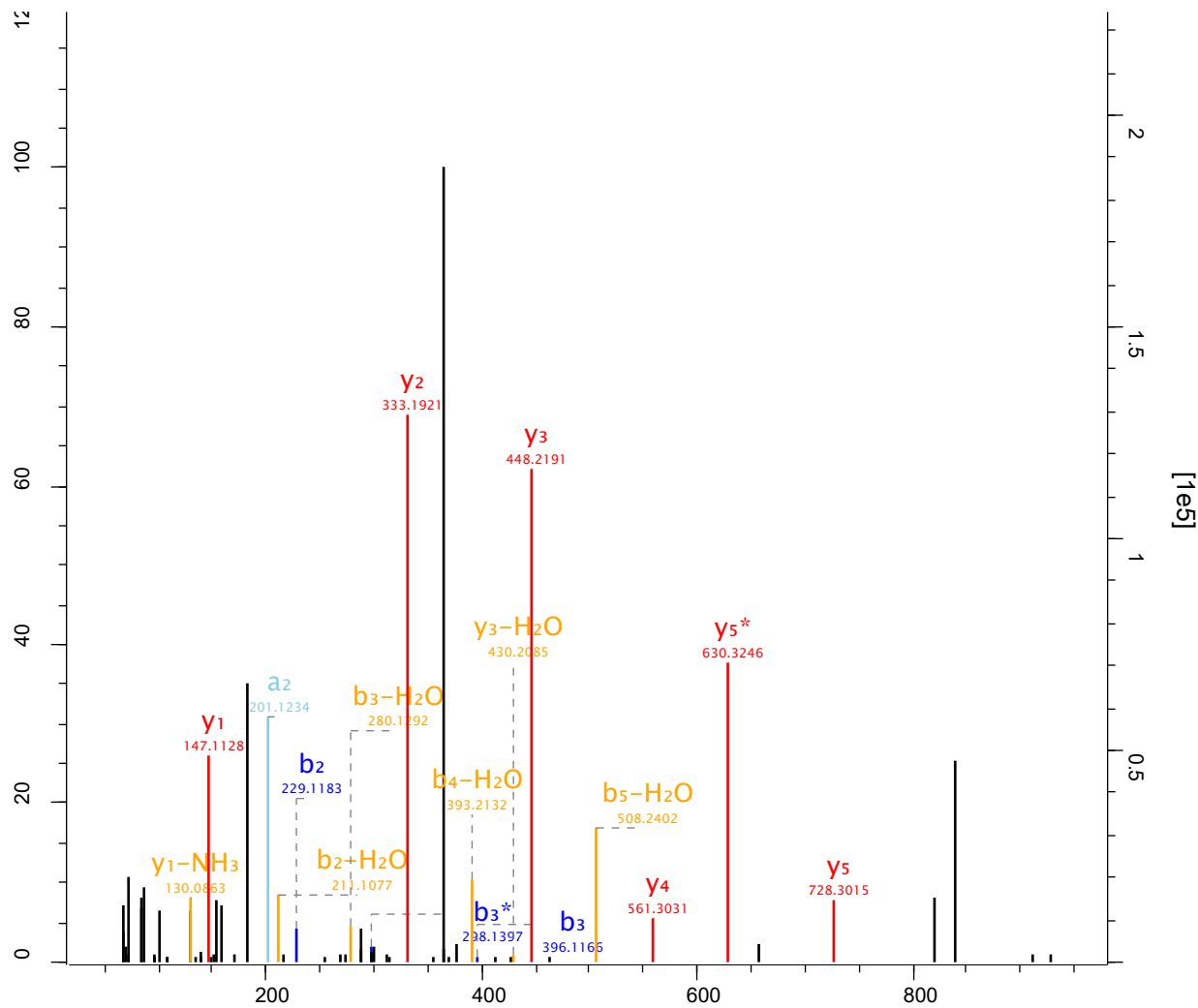
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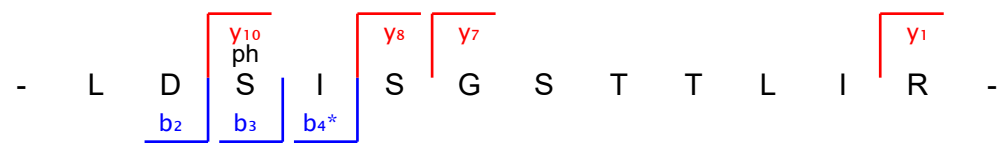
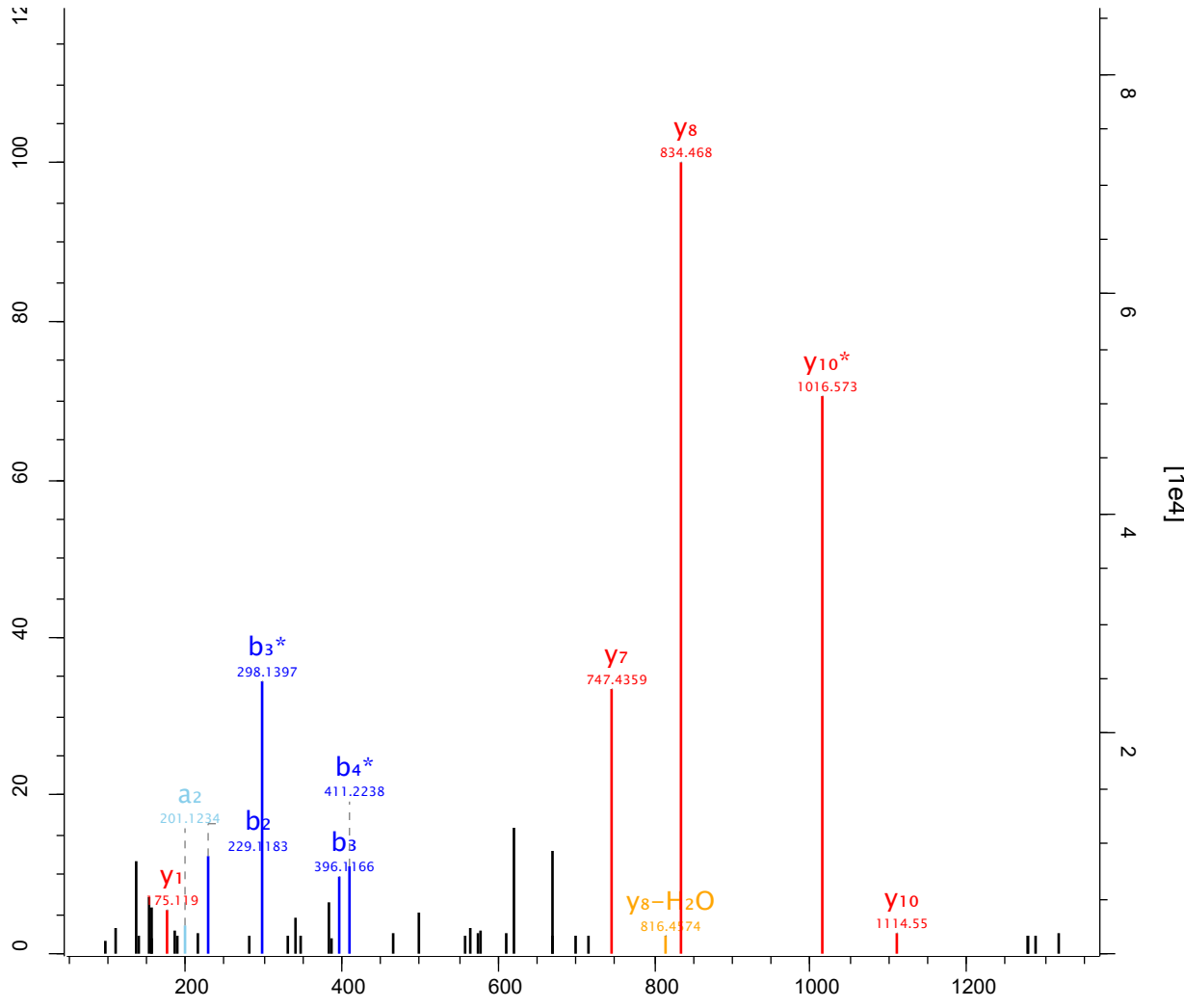
- I Q L M ox y5\*  
ph  
T y4  
I y3  
G y2\*  
ph  
S y1  
K -

b5 b6

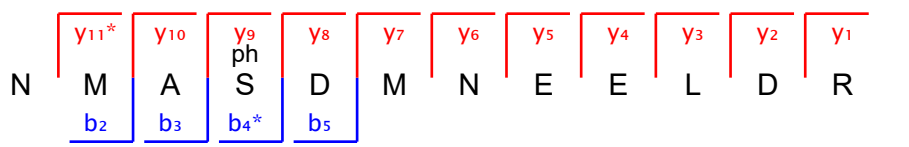
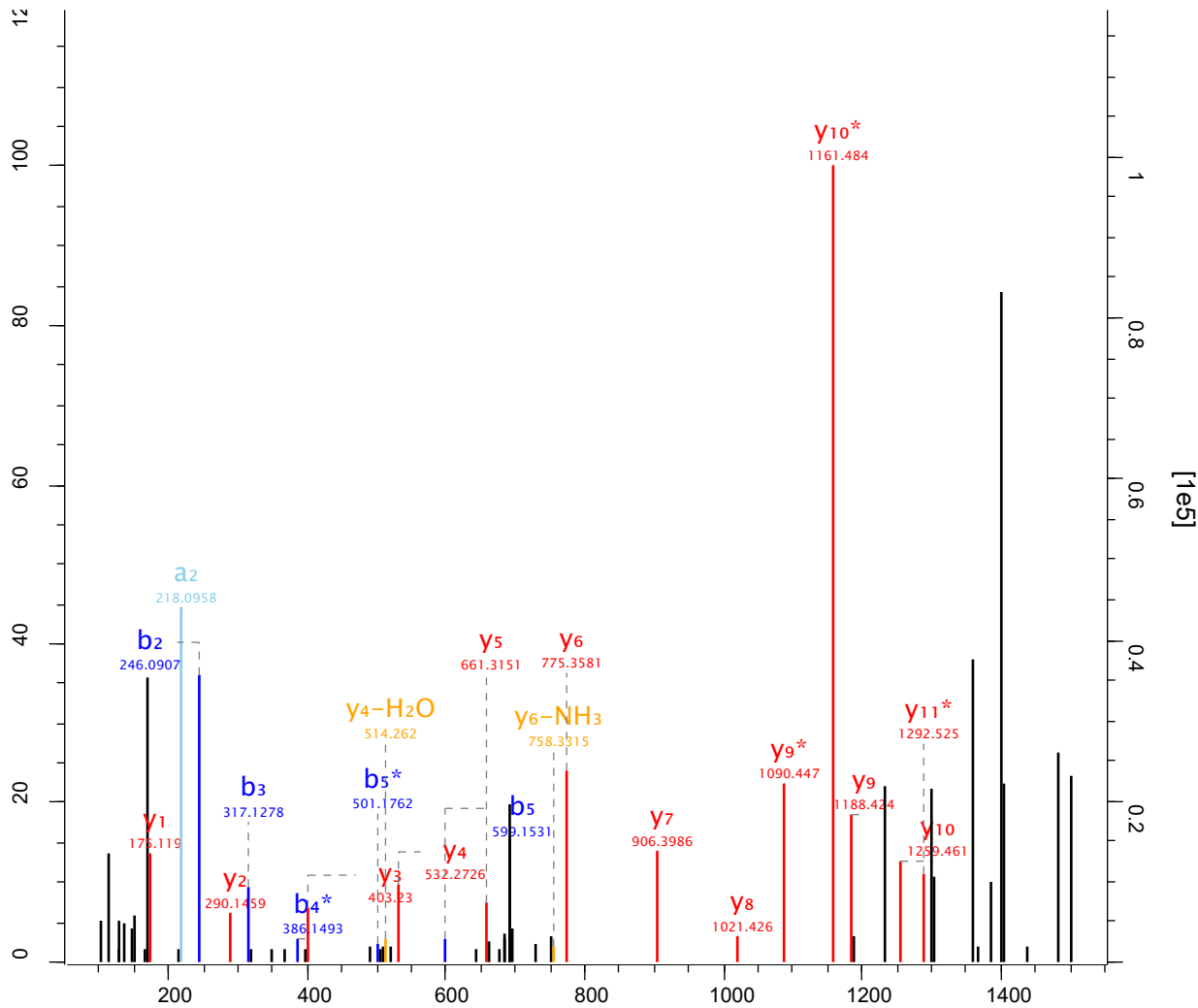
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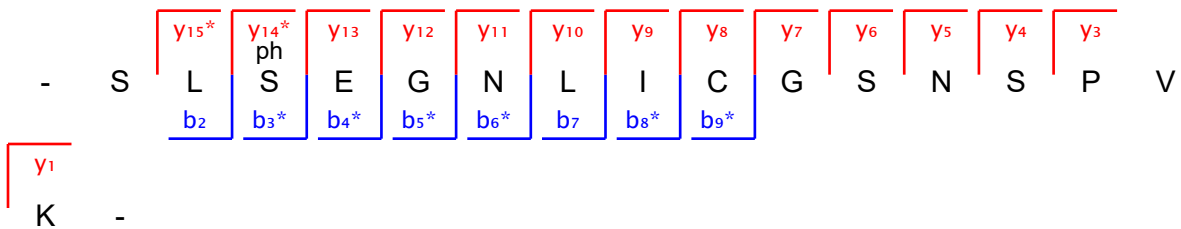
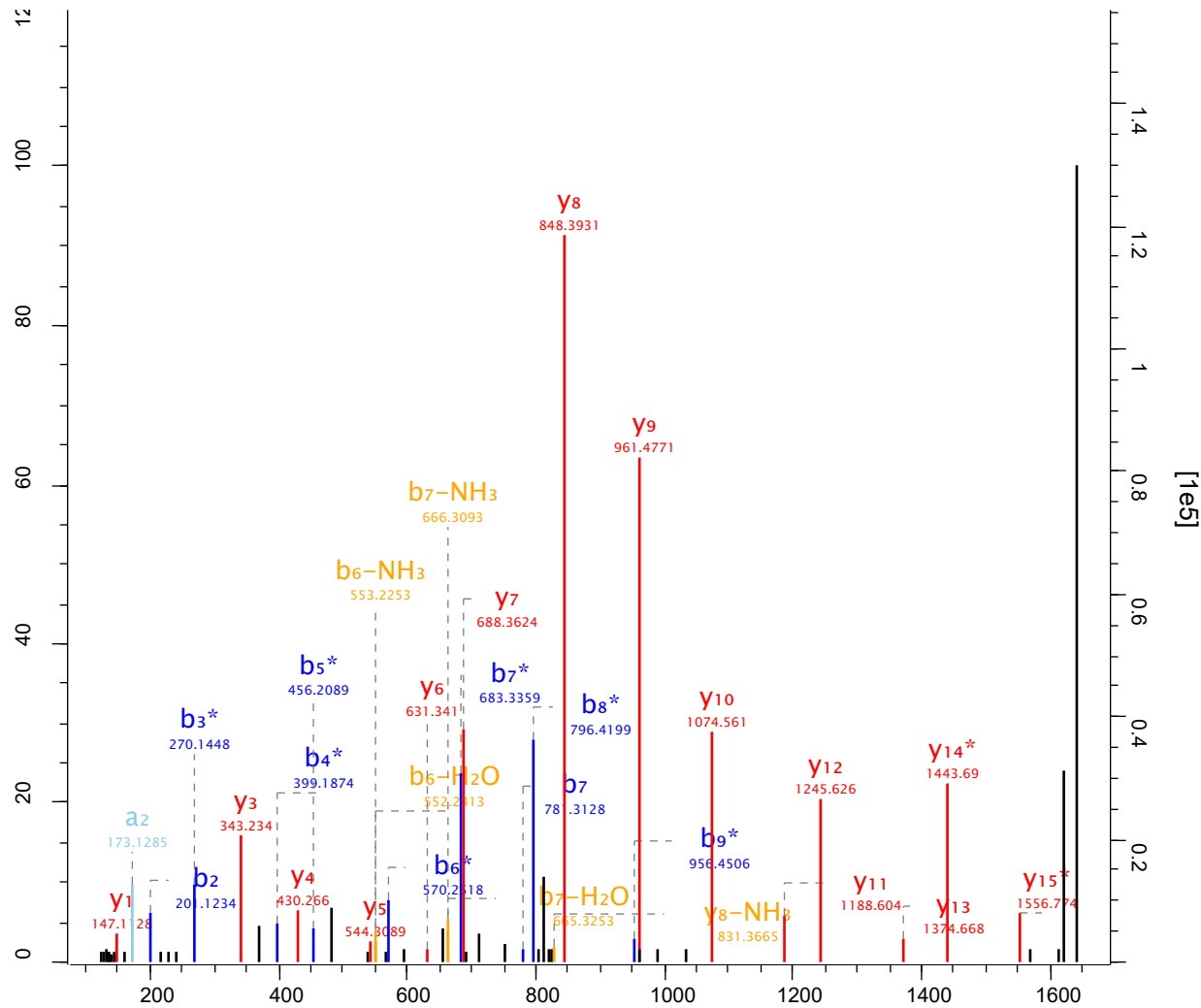


Raw file Scan Method Score m/z  
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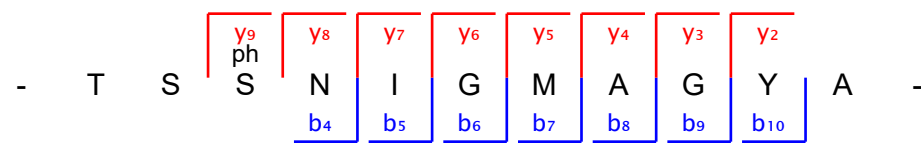
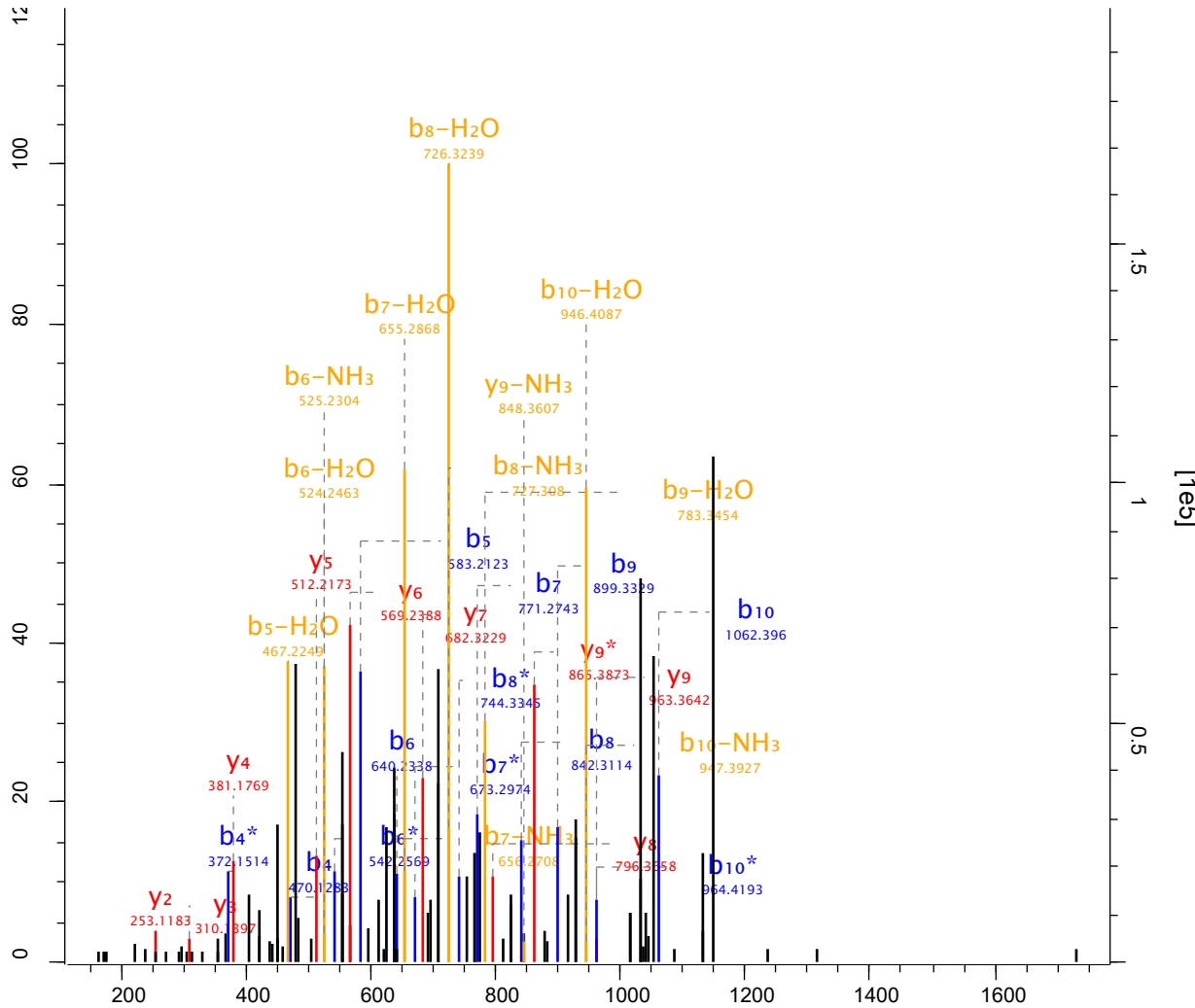




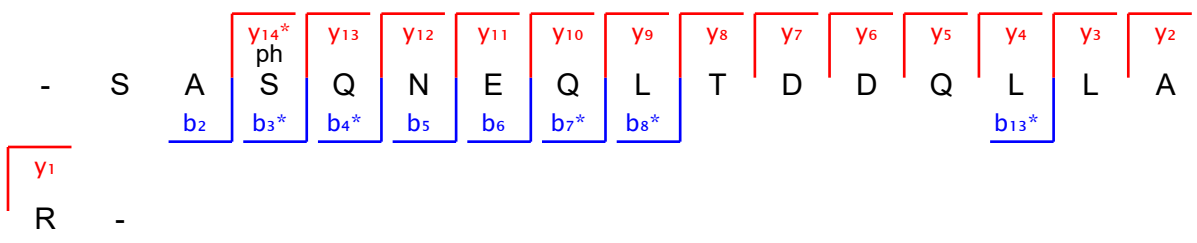
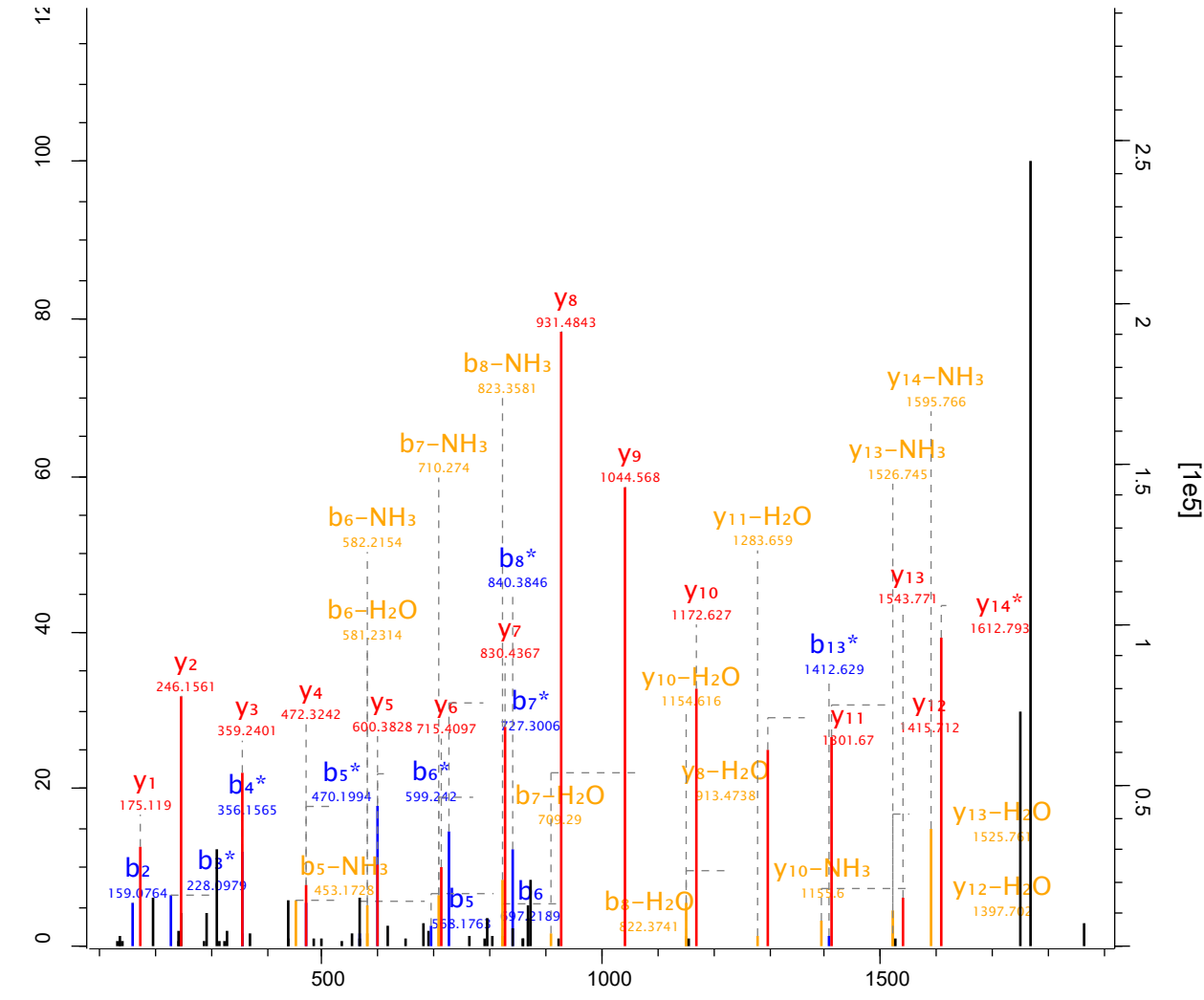
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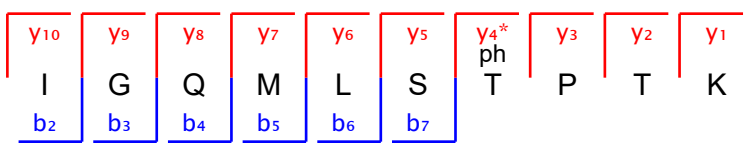
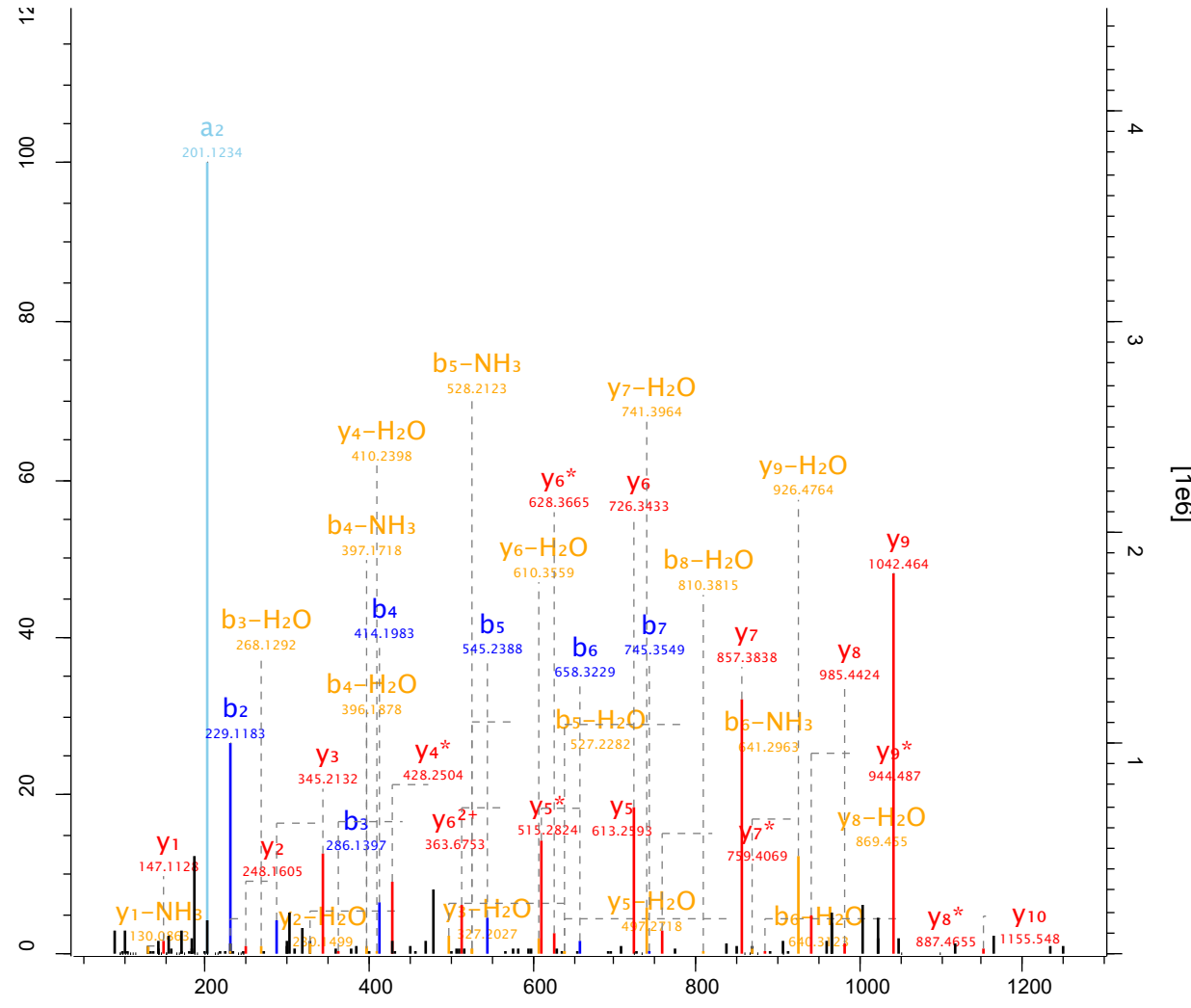
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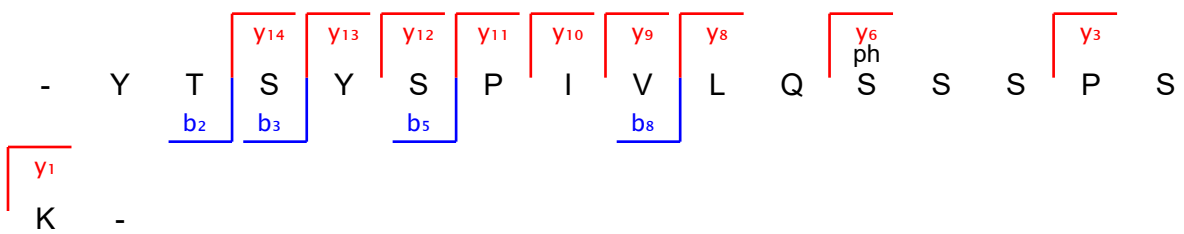
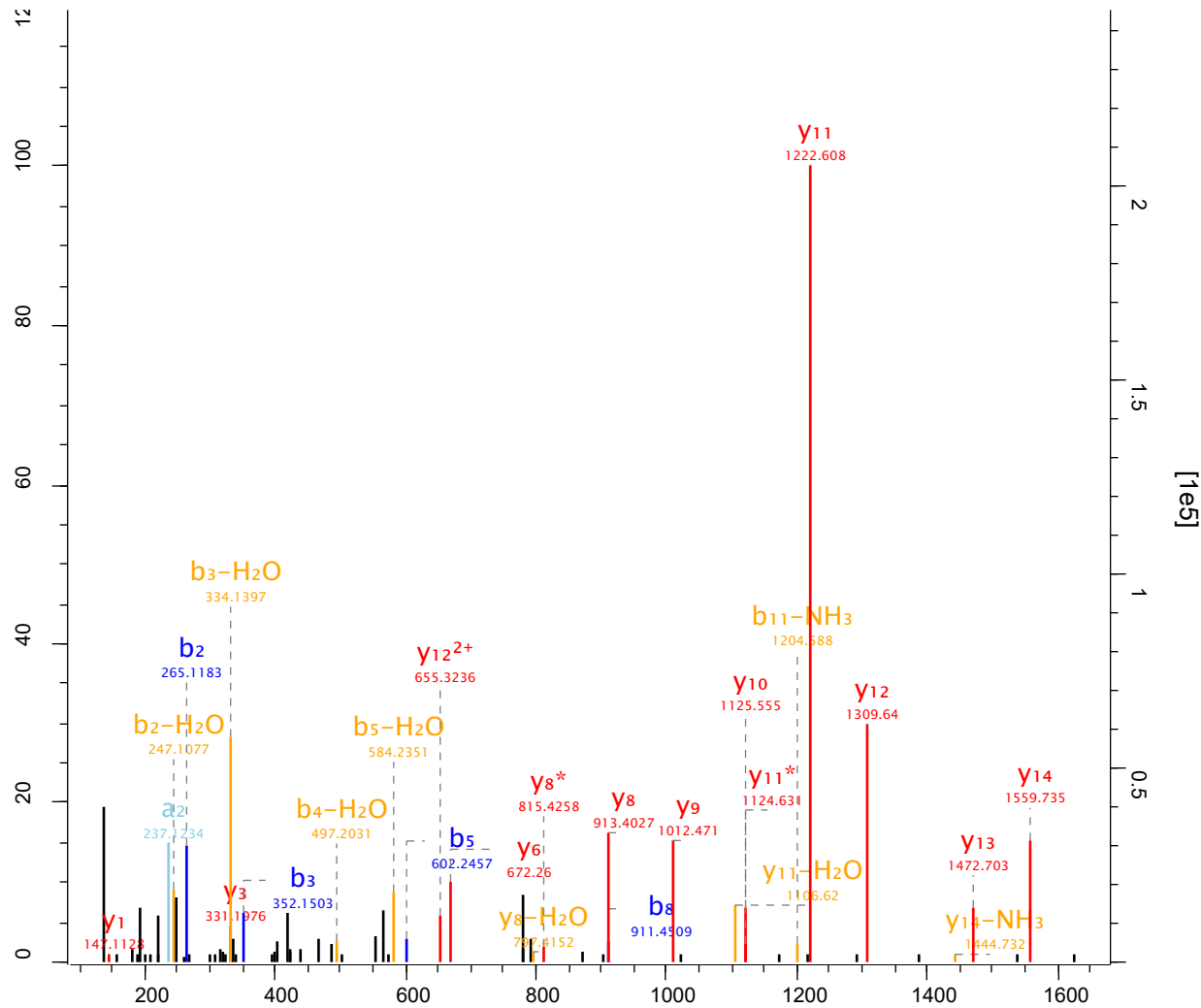
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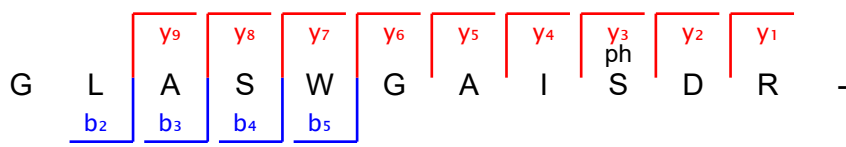
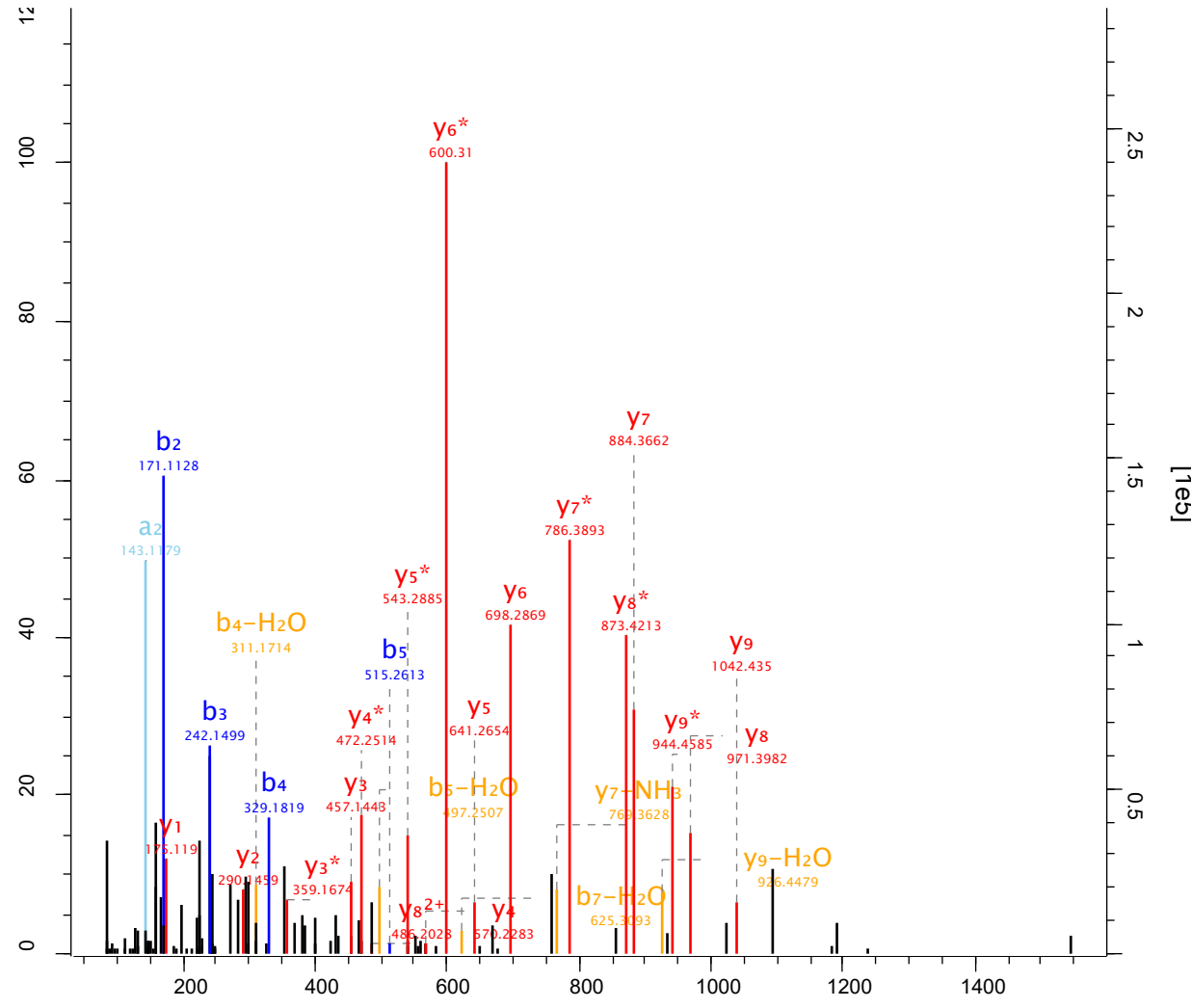
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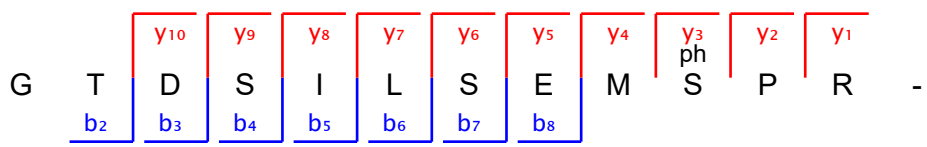
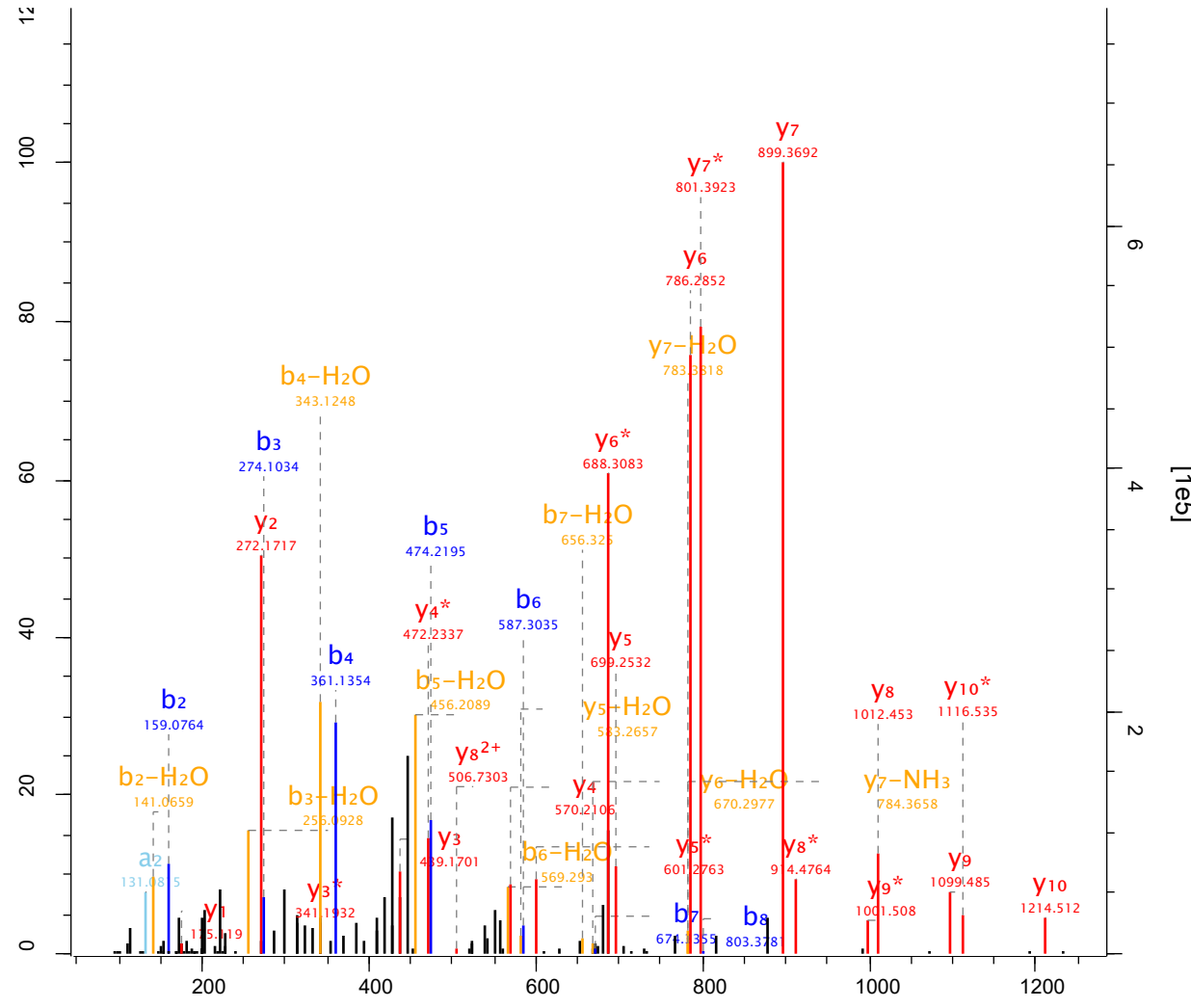
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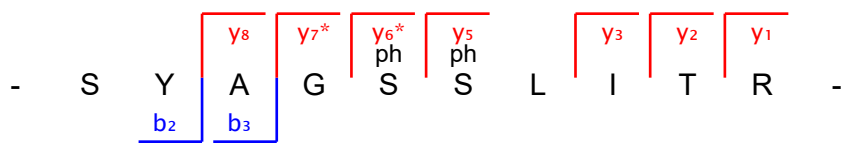
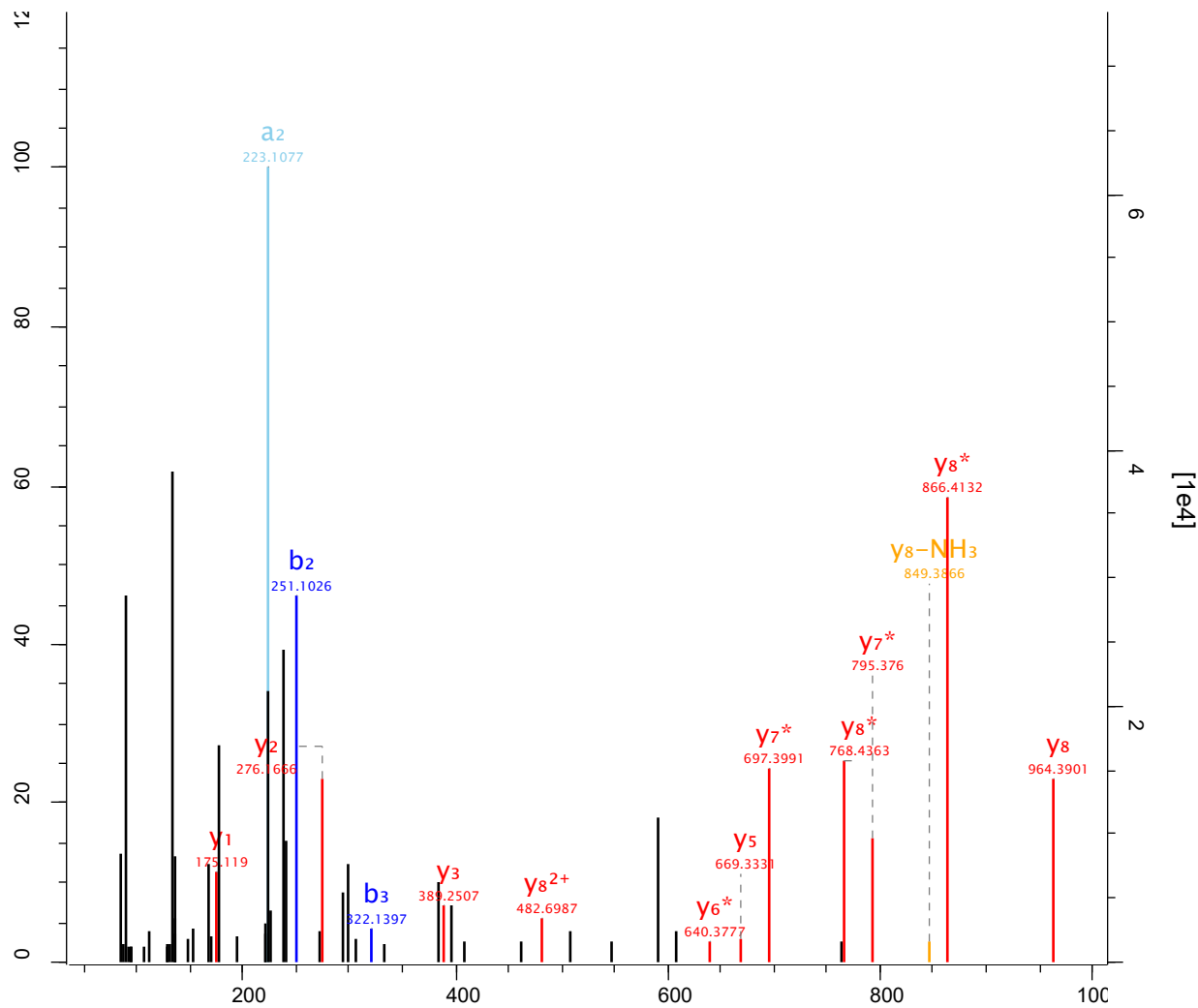
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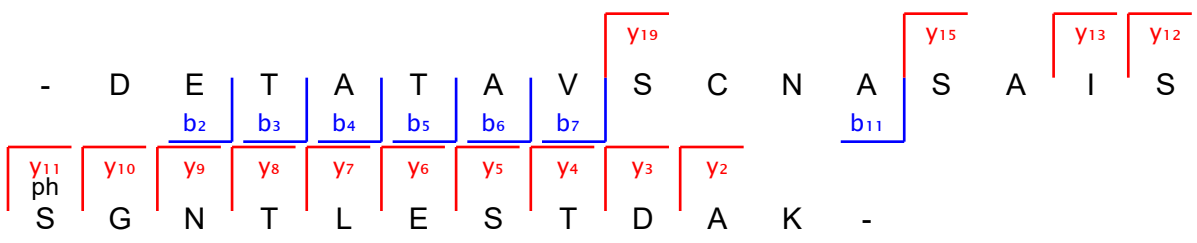
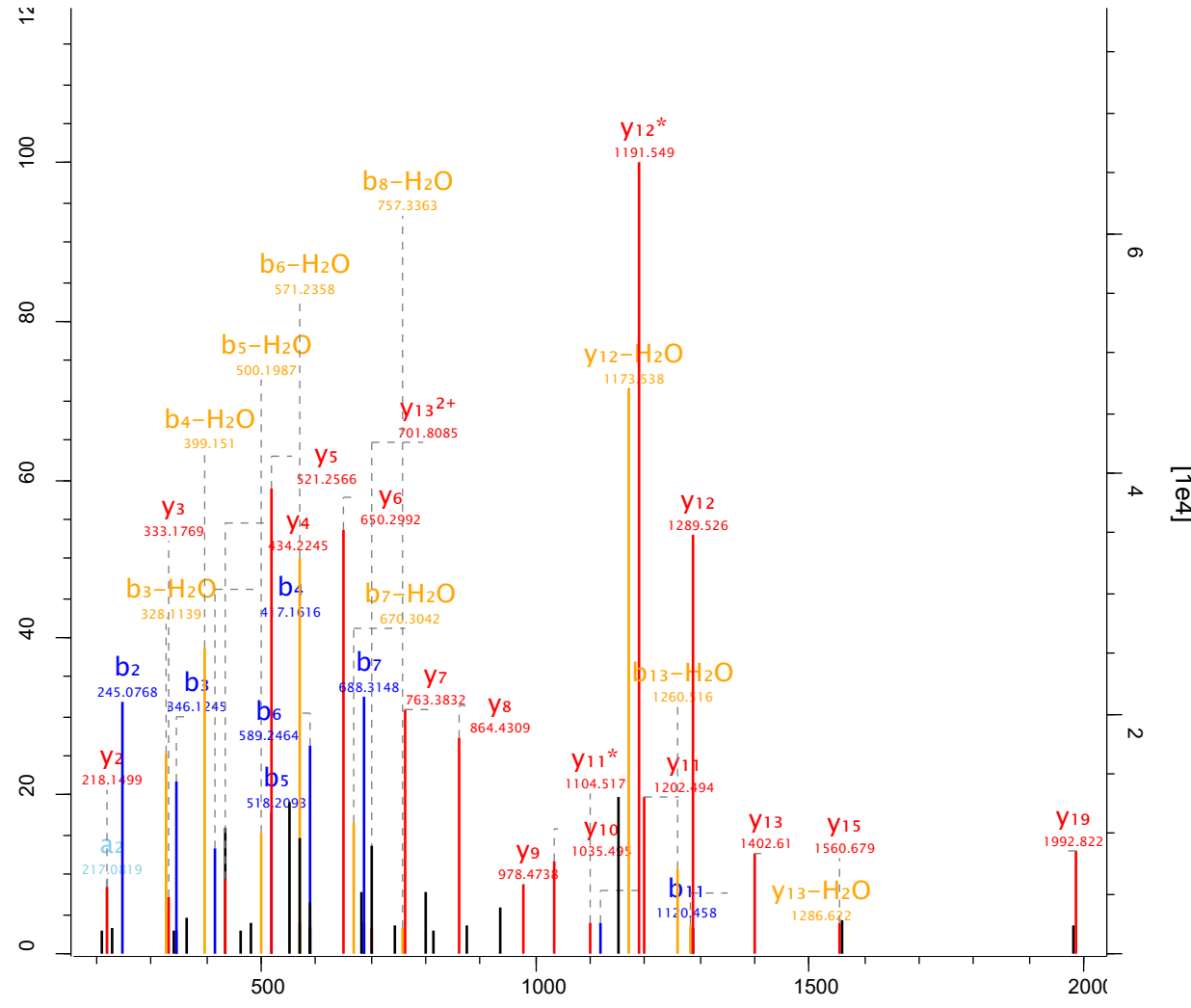


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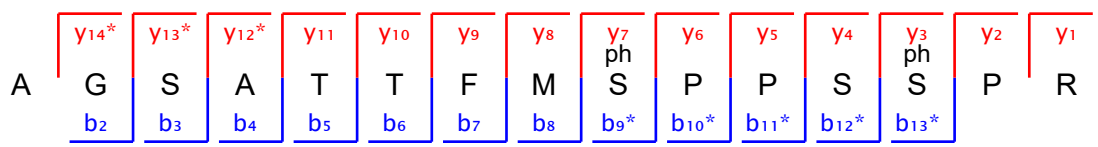
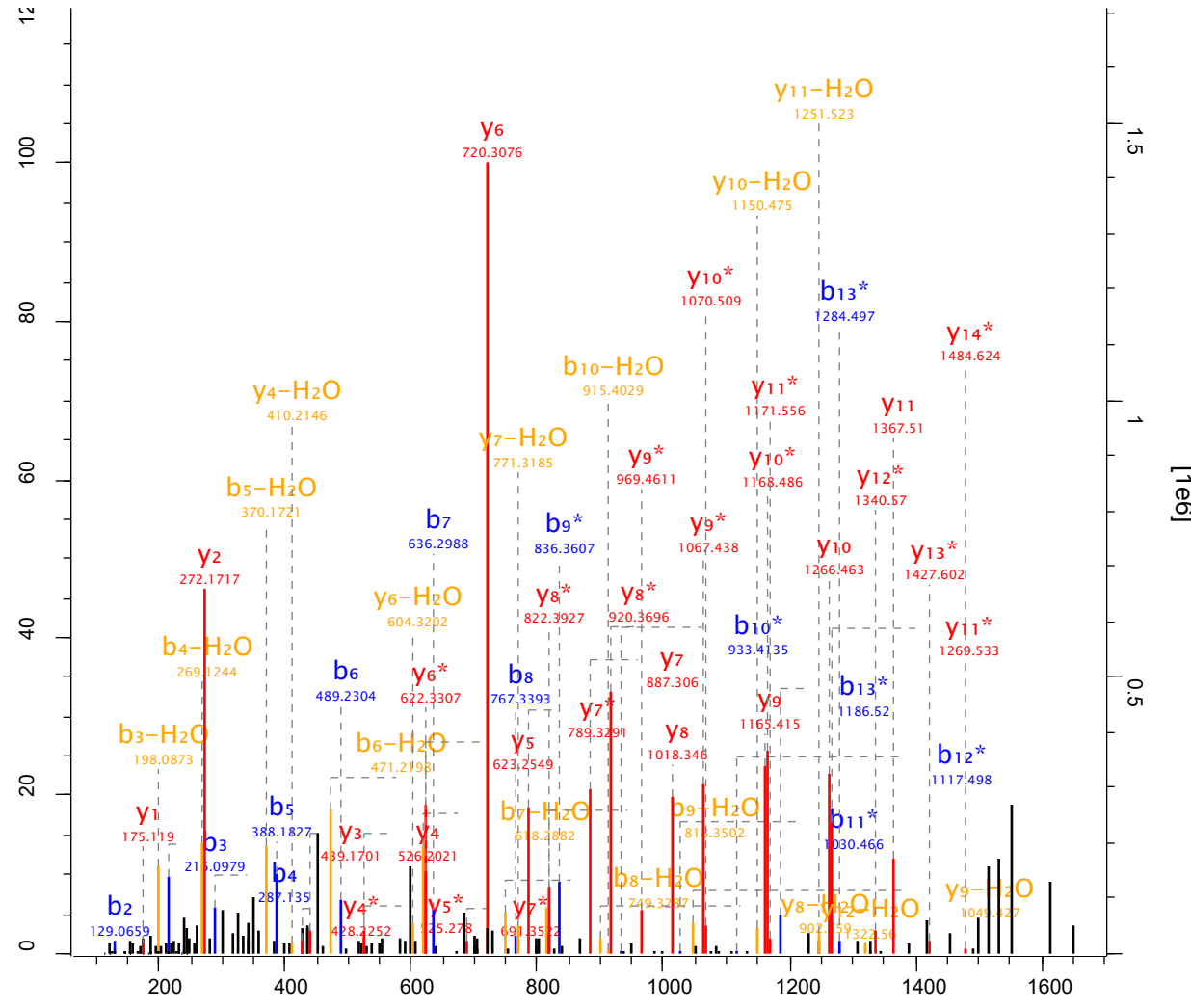




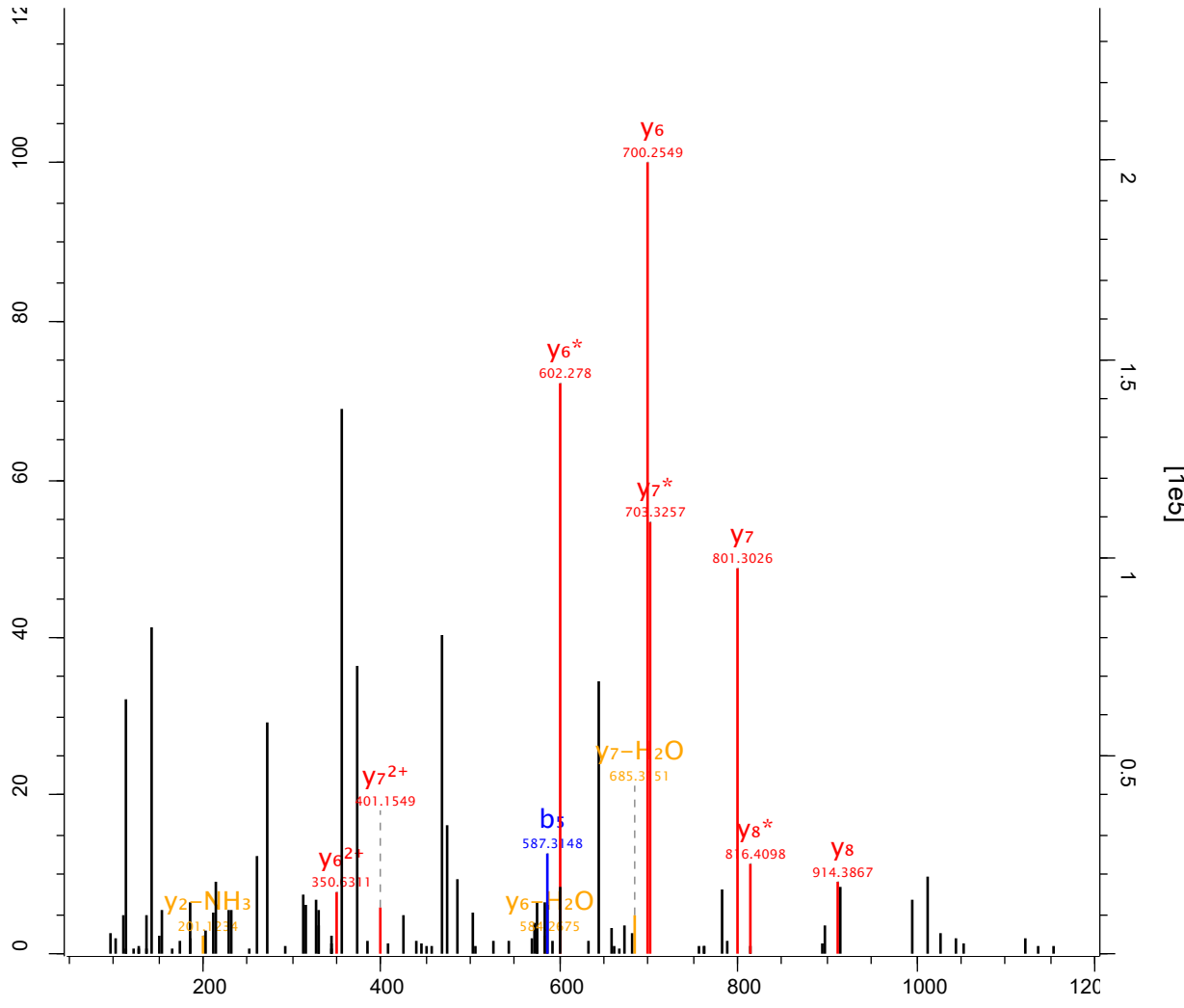
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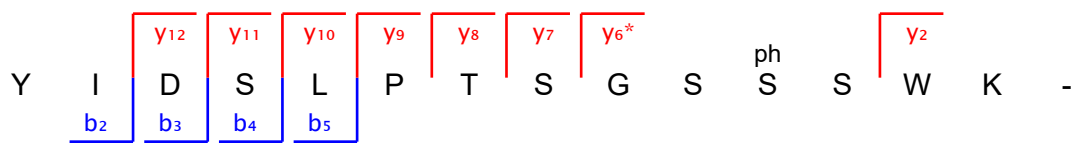
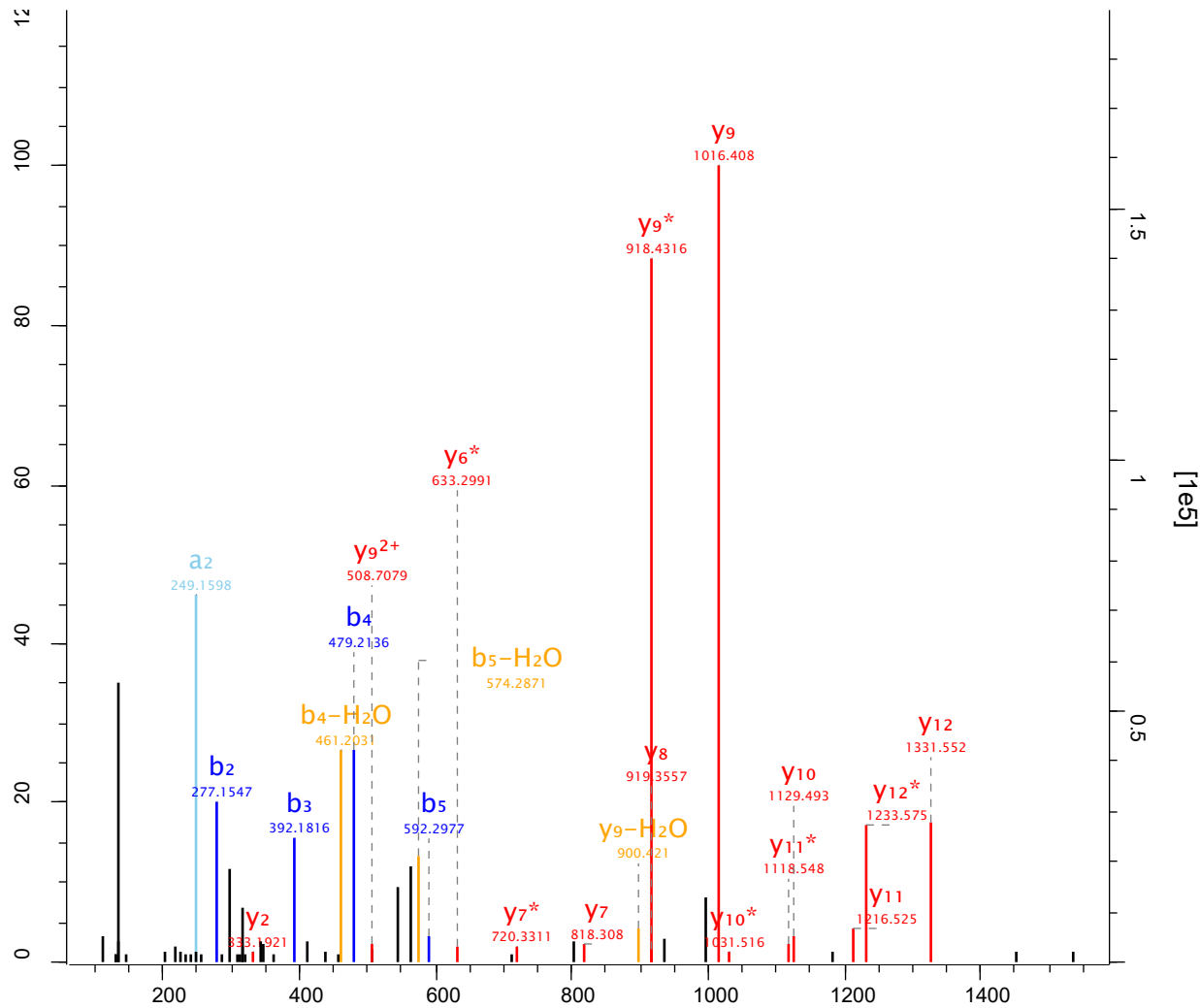
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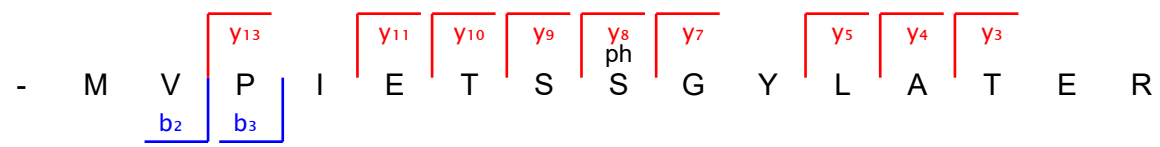
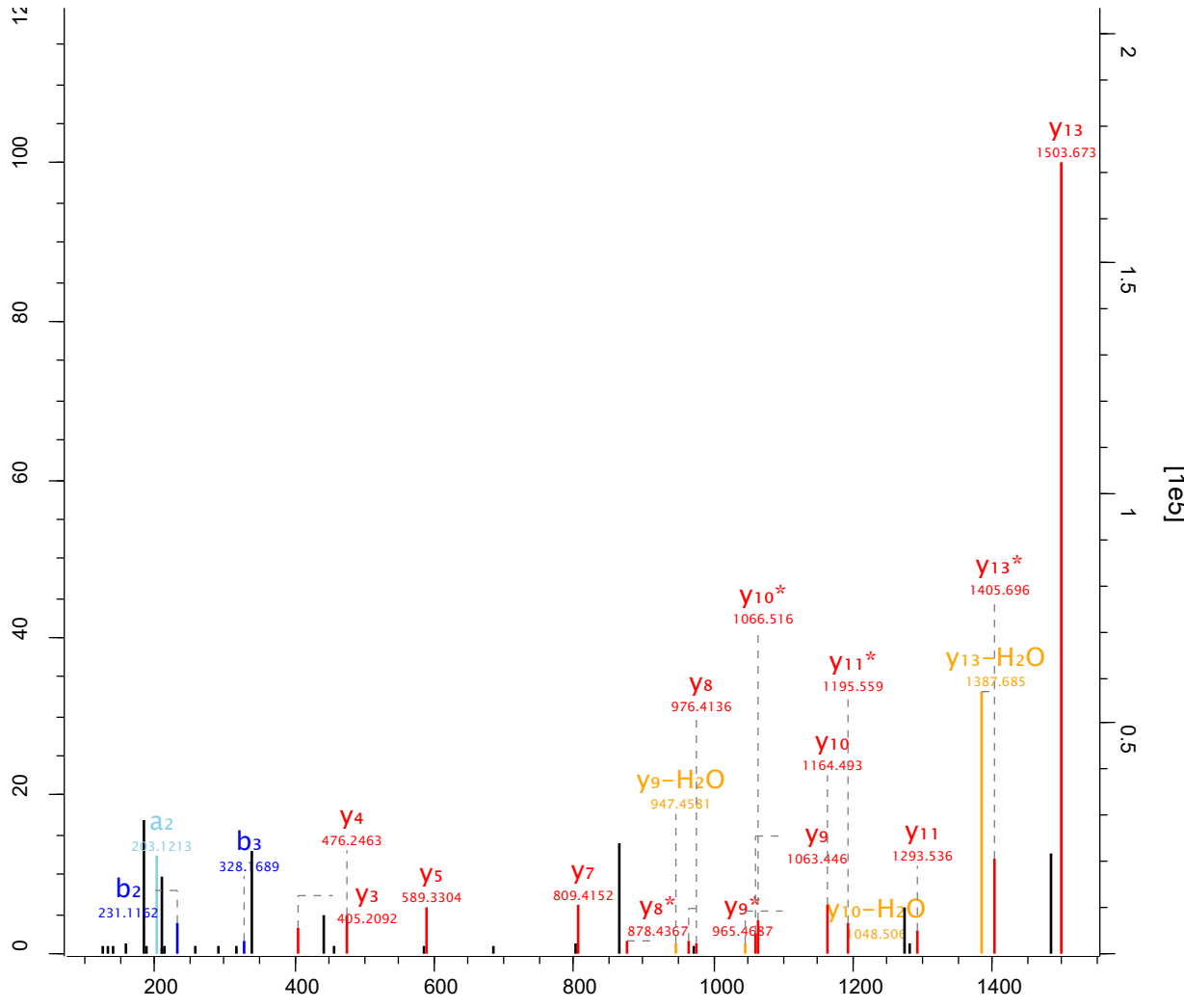
- S E R I T D ph S E A A K -

Annotations: y8 (I), y7 (T), y6 (D), b5 (T)

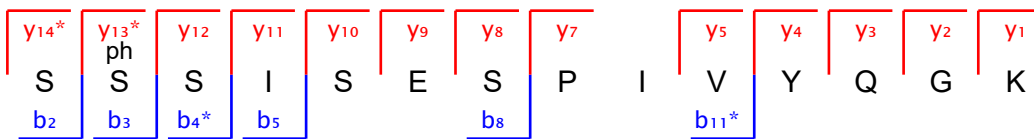
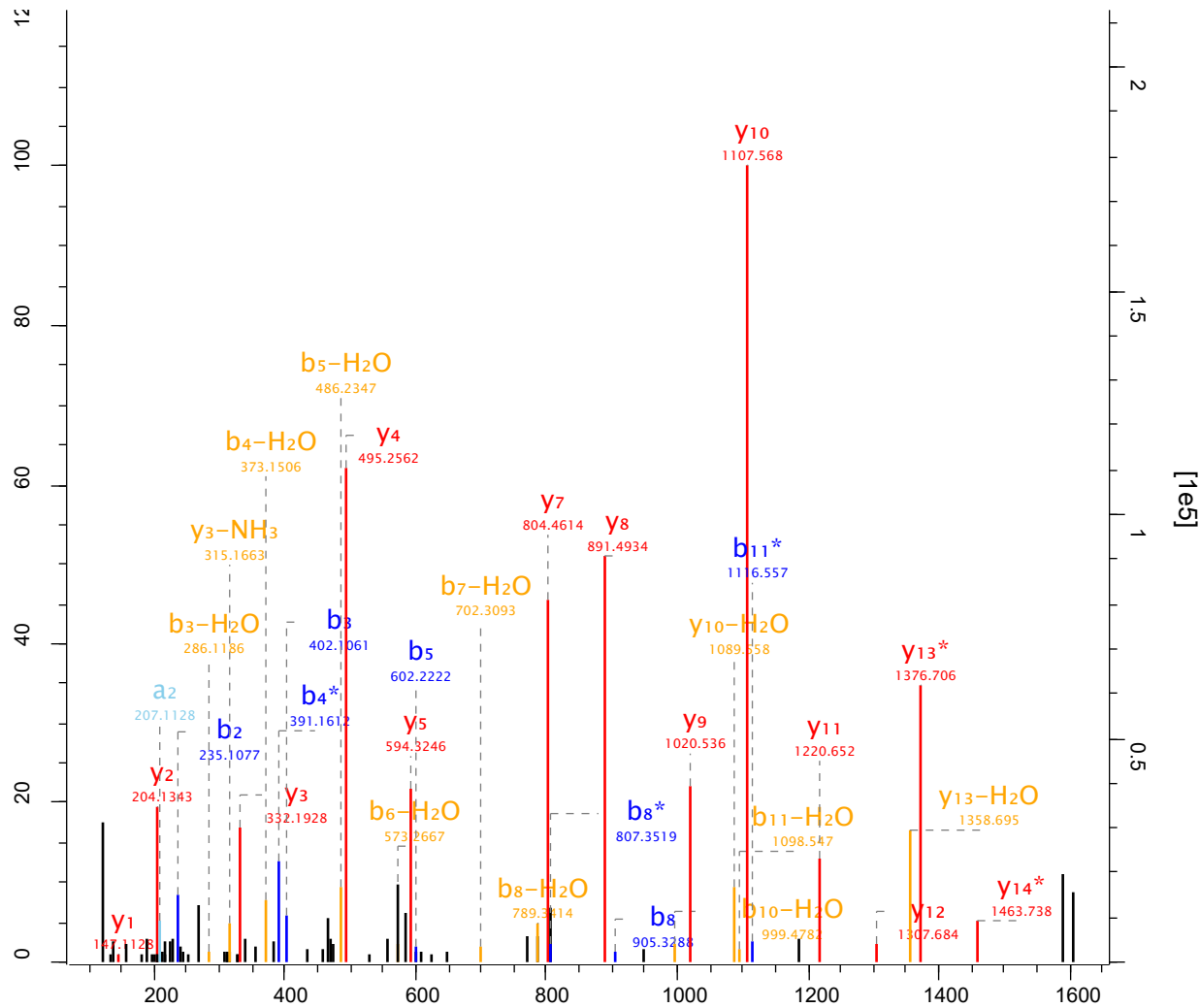
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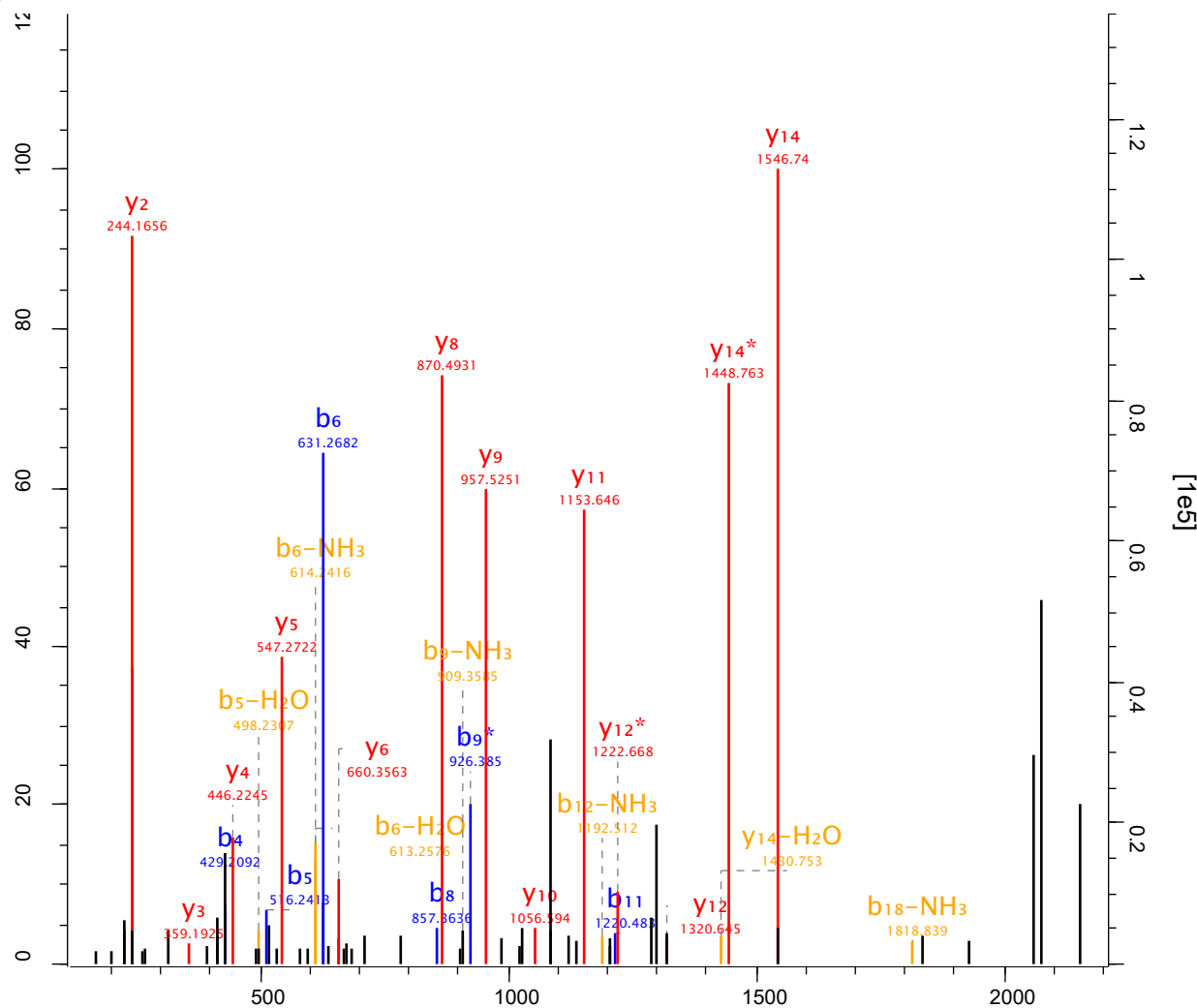
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Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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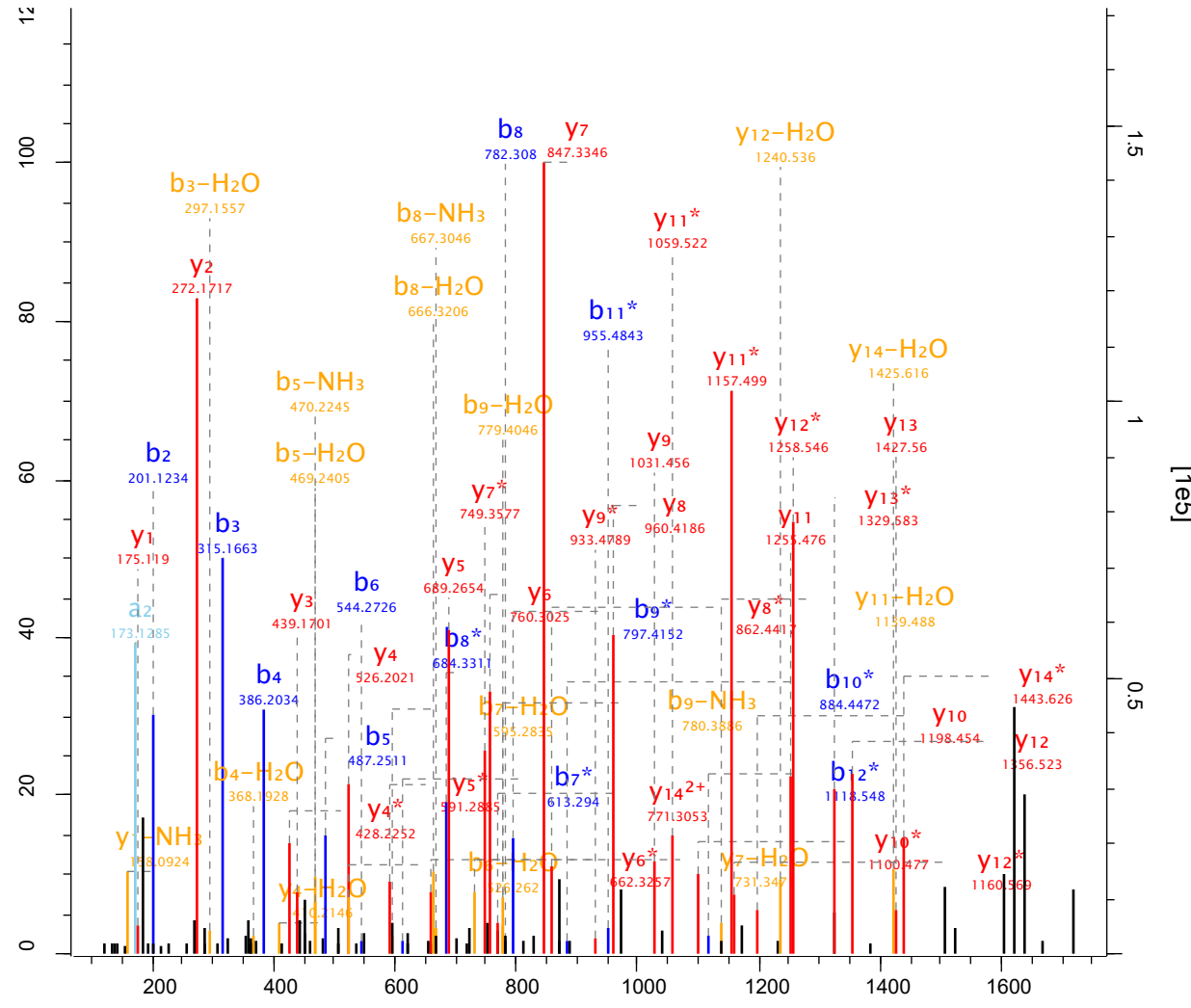


- L S N N S D P E S P V S P L L

y5
y4
y3
y2
b4
b5
b6
y14
y12 ph
y11
y10
y9
y8
y6
b9\*
b8
b11

T S D P K -

Raw file Scan Method Score m/z  
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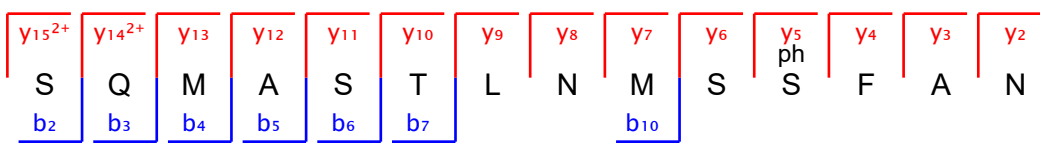
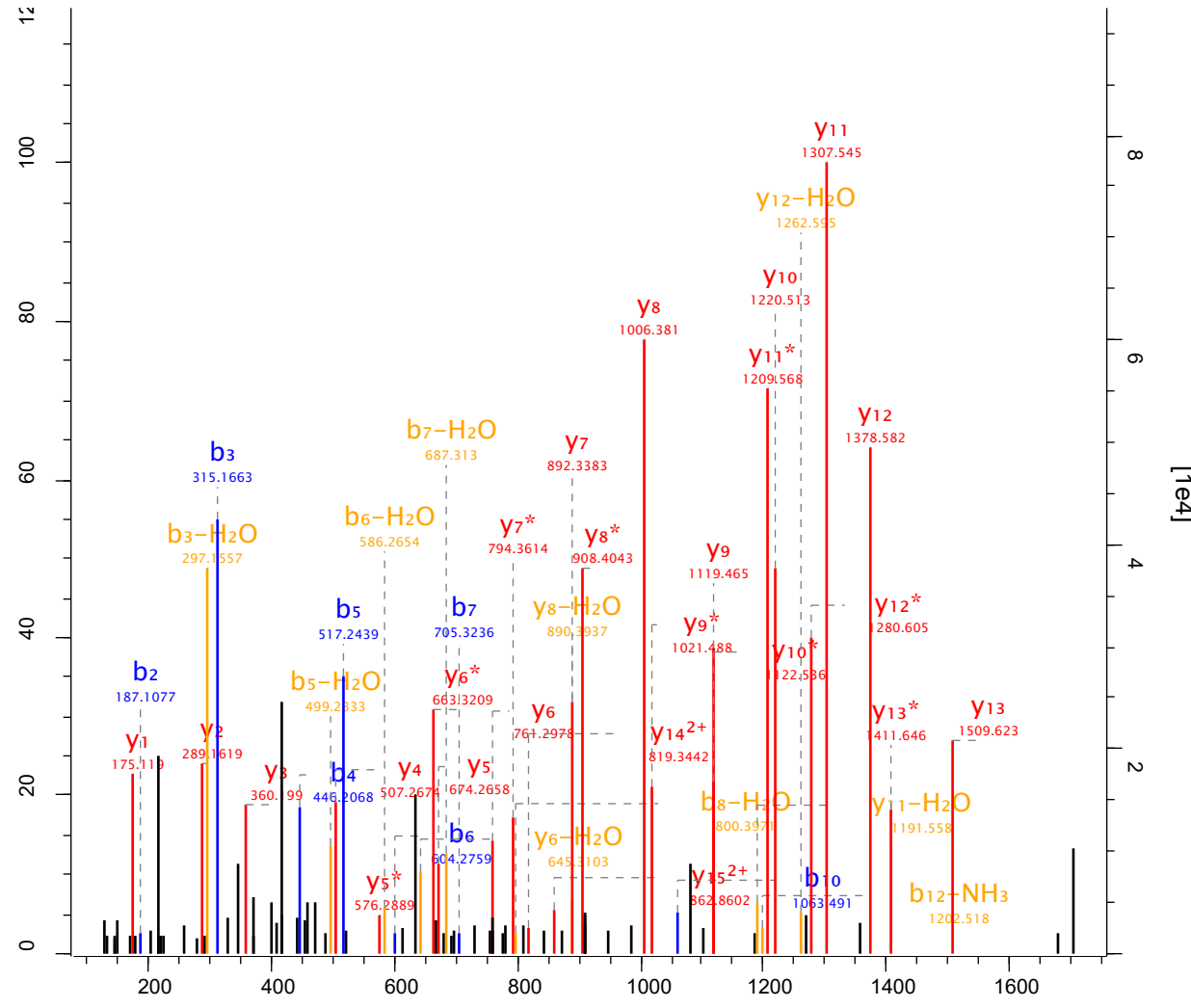


		y14*	y13	y12	y11	y10	y9	y8	y7	y6	y5	y4	y3	y2		
-	S	L	N	A	T	G	S	A	L	S	A	Y	S	ph	S	P
		b2	b3	b4	b5	b6	b7*	b8	b9*	b10*	b11*	b12*				

R -

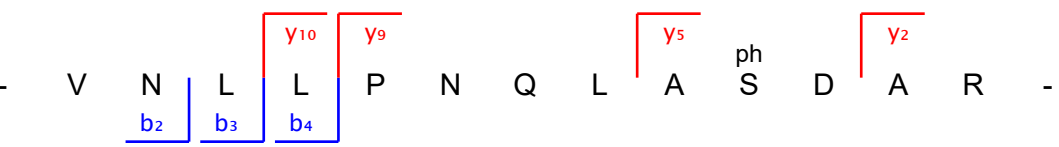
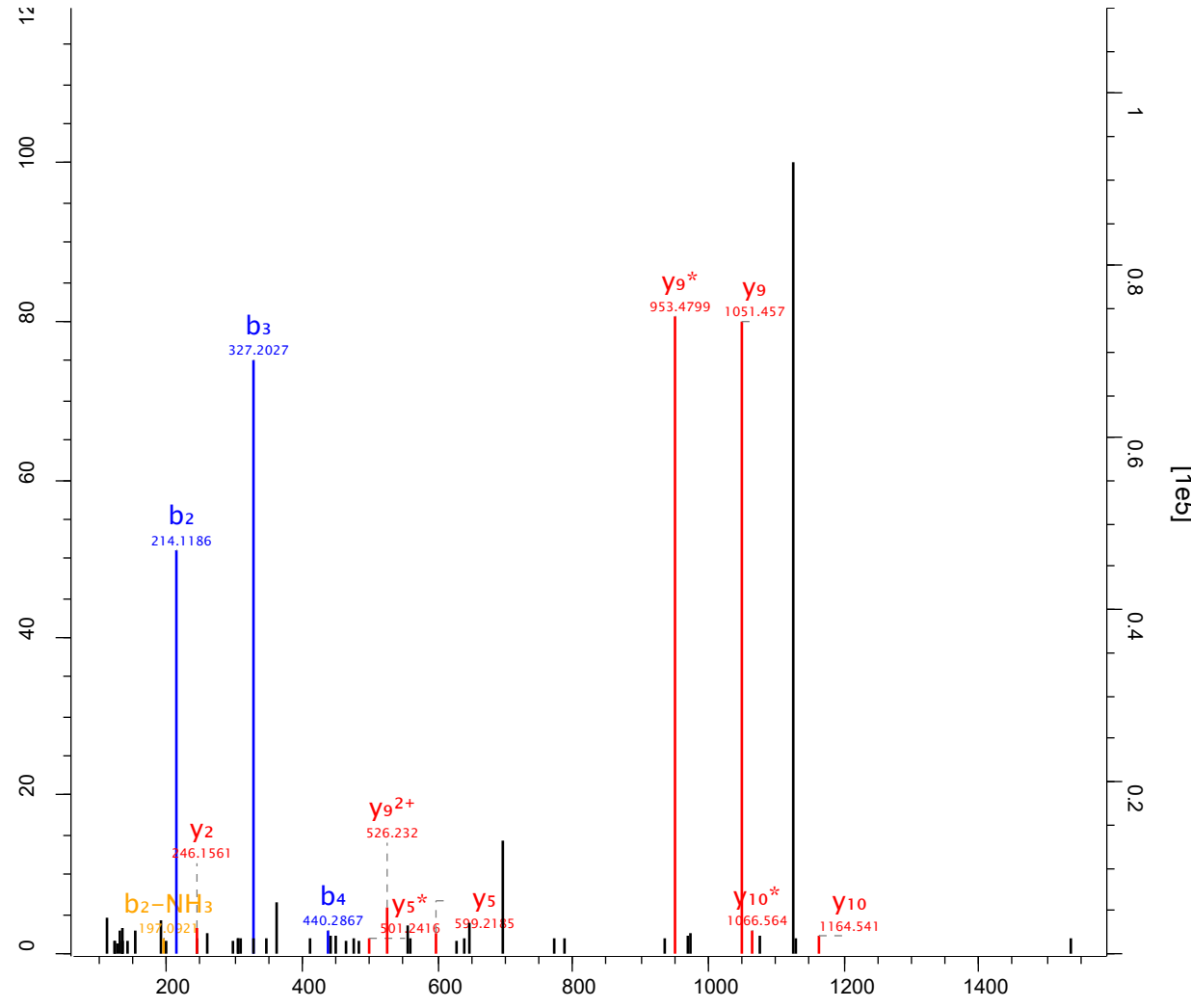


Raw file Scan Method Score m/z  
 sys\_05\_2 30162 FTMS; HCD 181.87 912.39

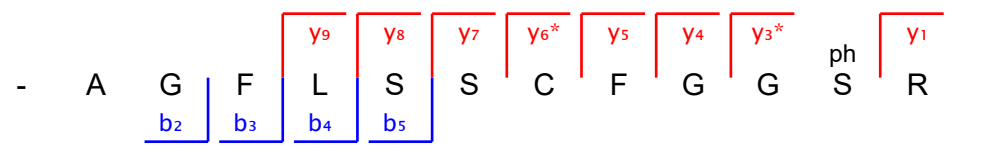
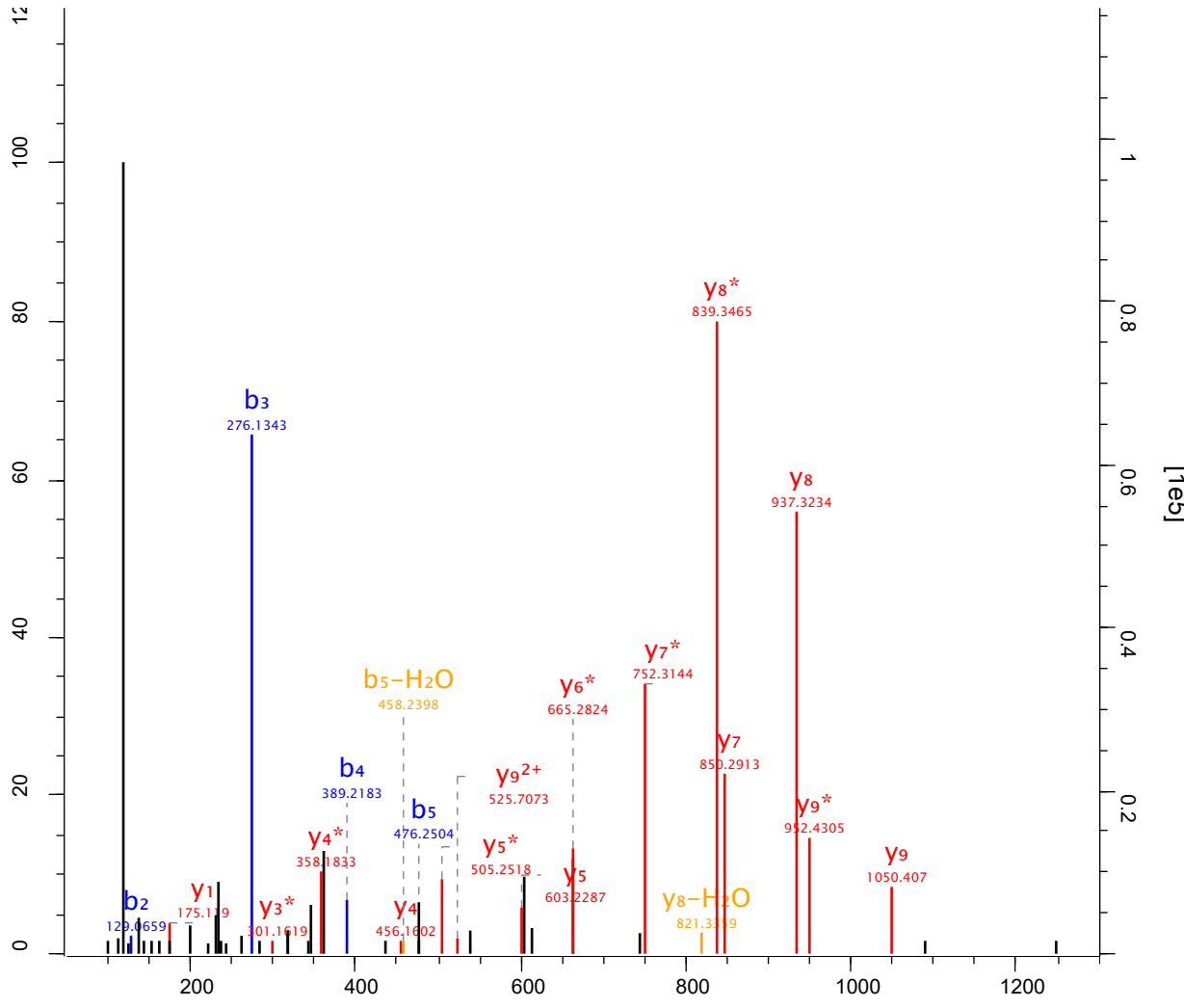


R -

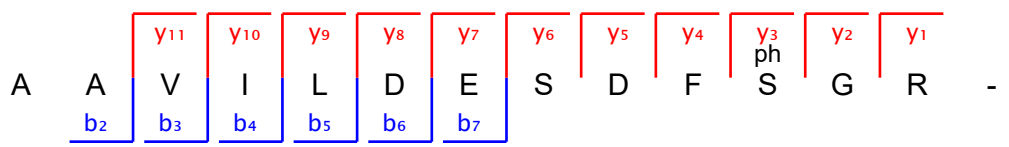
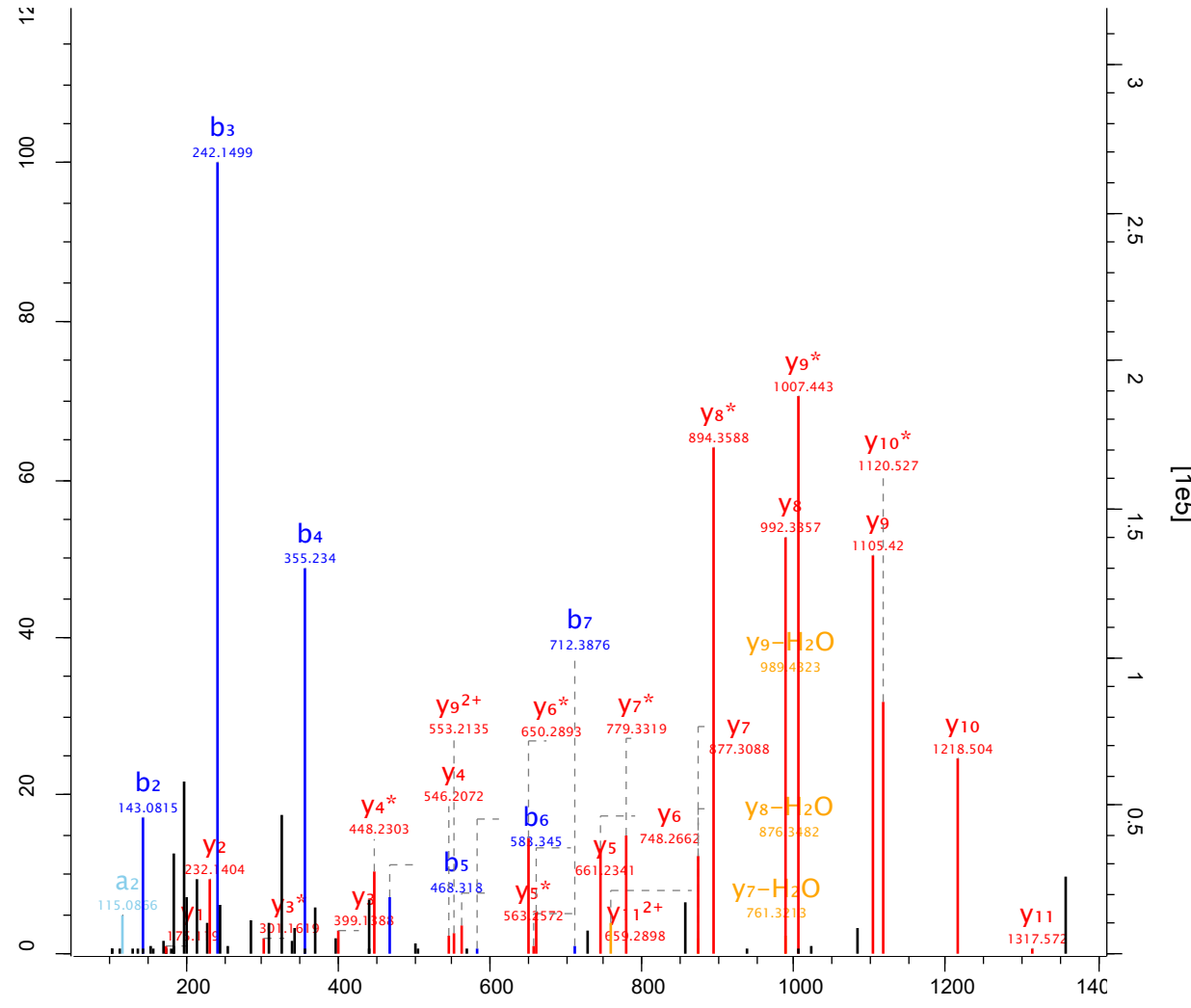
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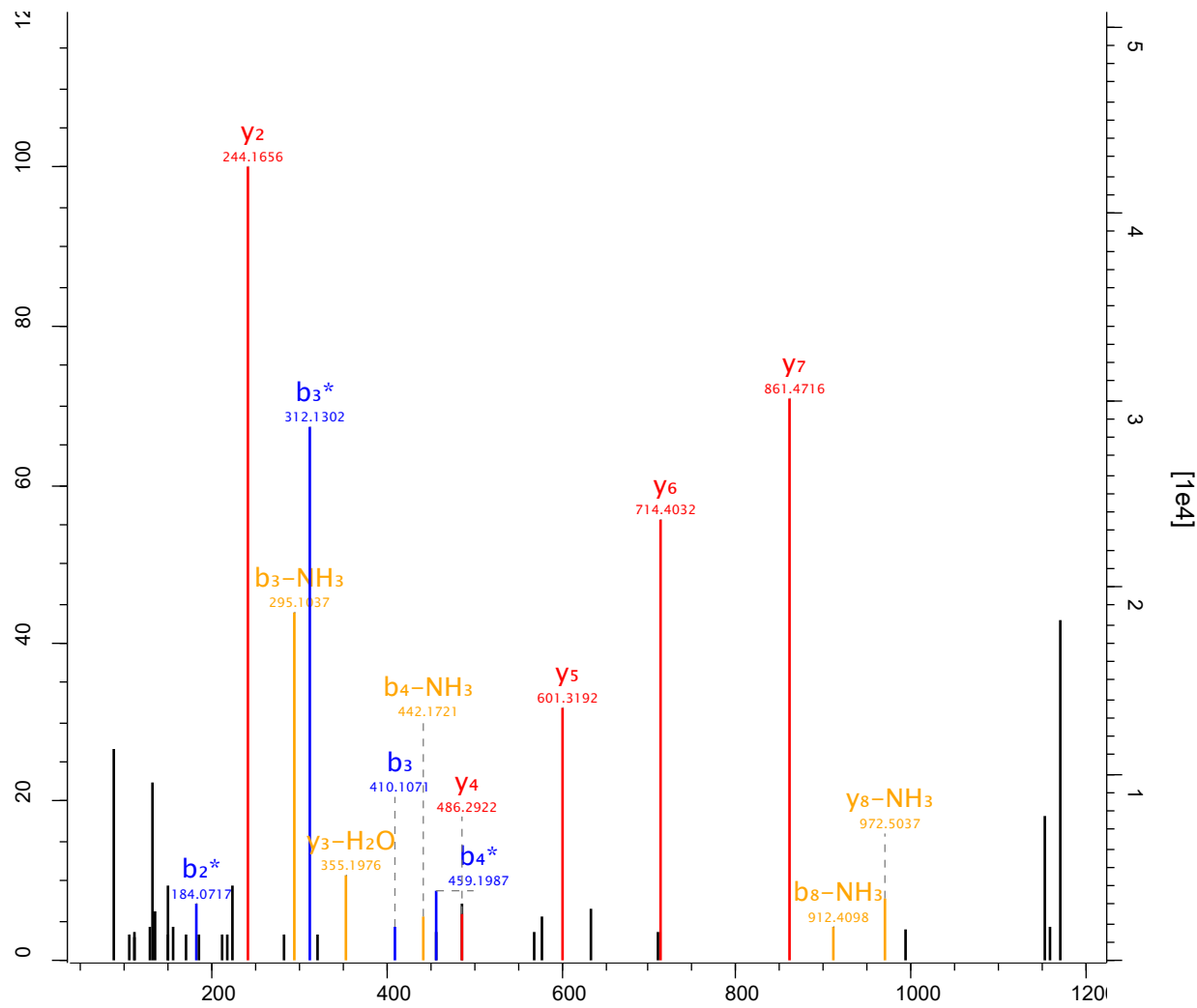
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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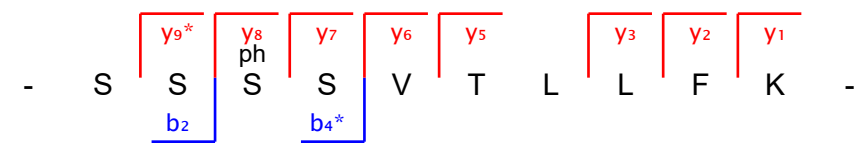
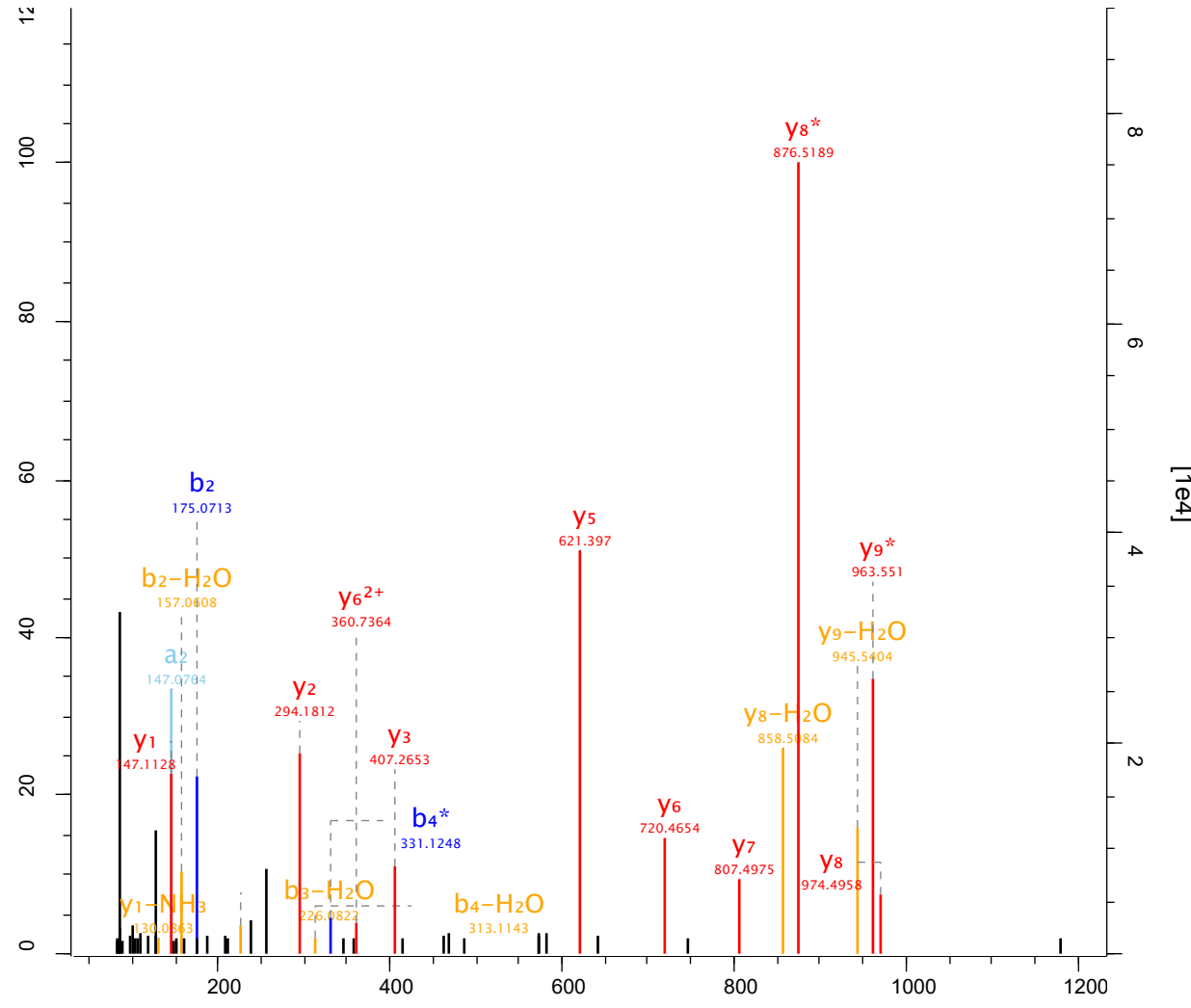


Raw file Scan Method Score m/z  
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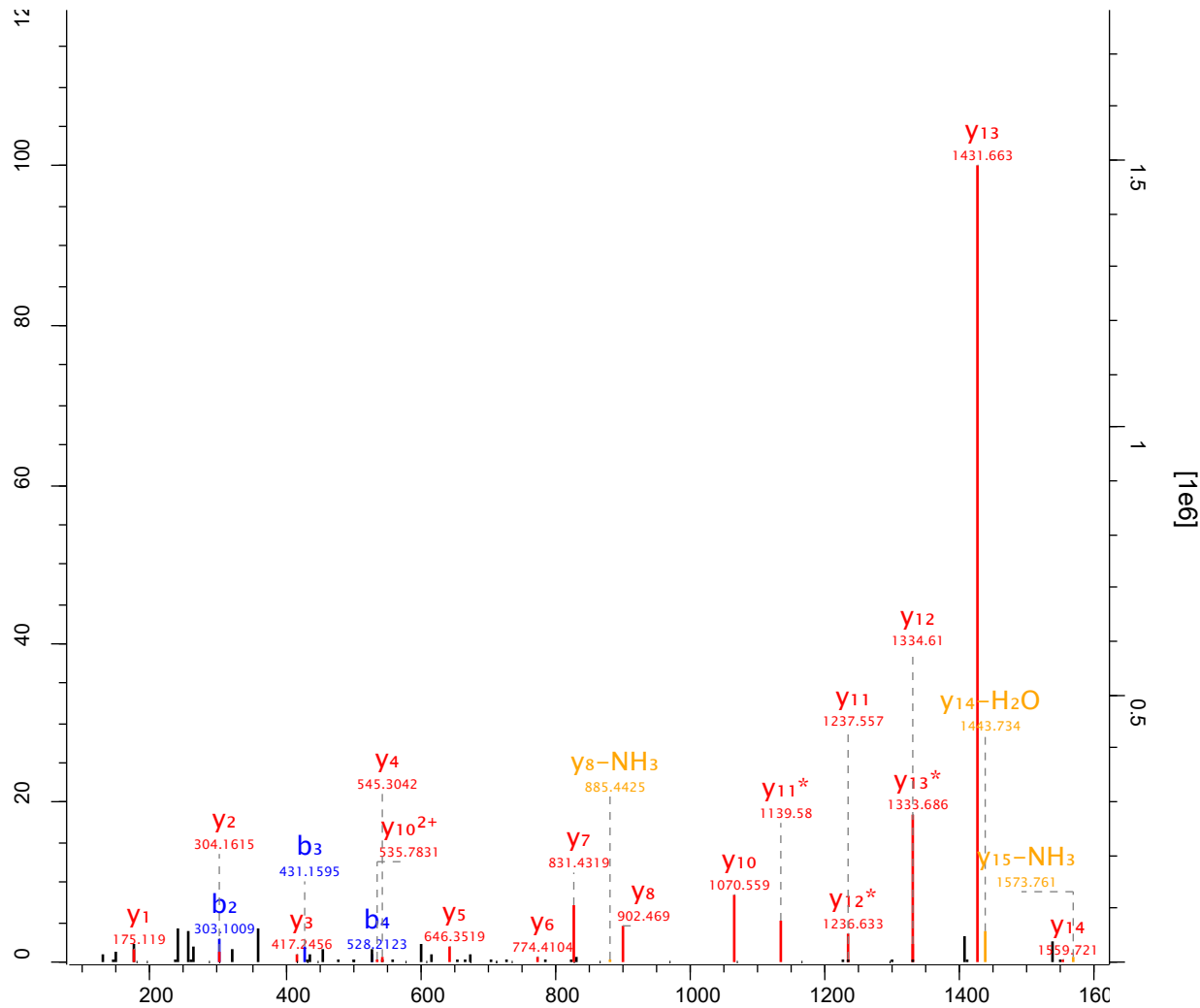


ph  
 - S N Q F I D L E P K -  
 b2\* b3 b4\* y7 y6 y5 y4 y2

Raw file Scan Method Score m/z  
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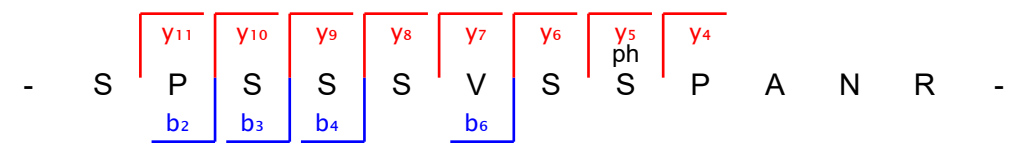
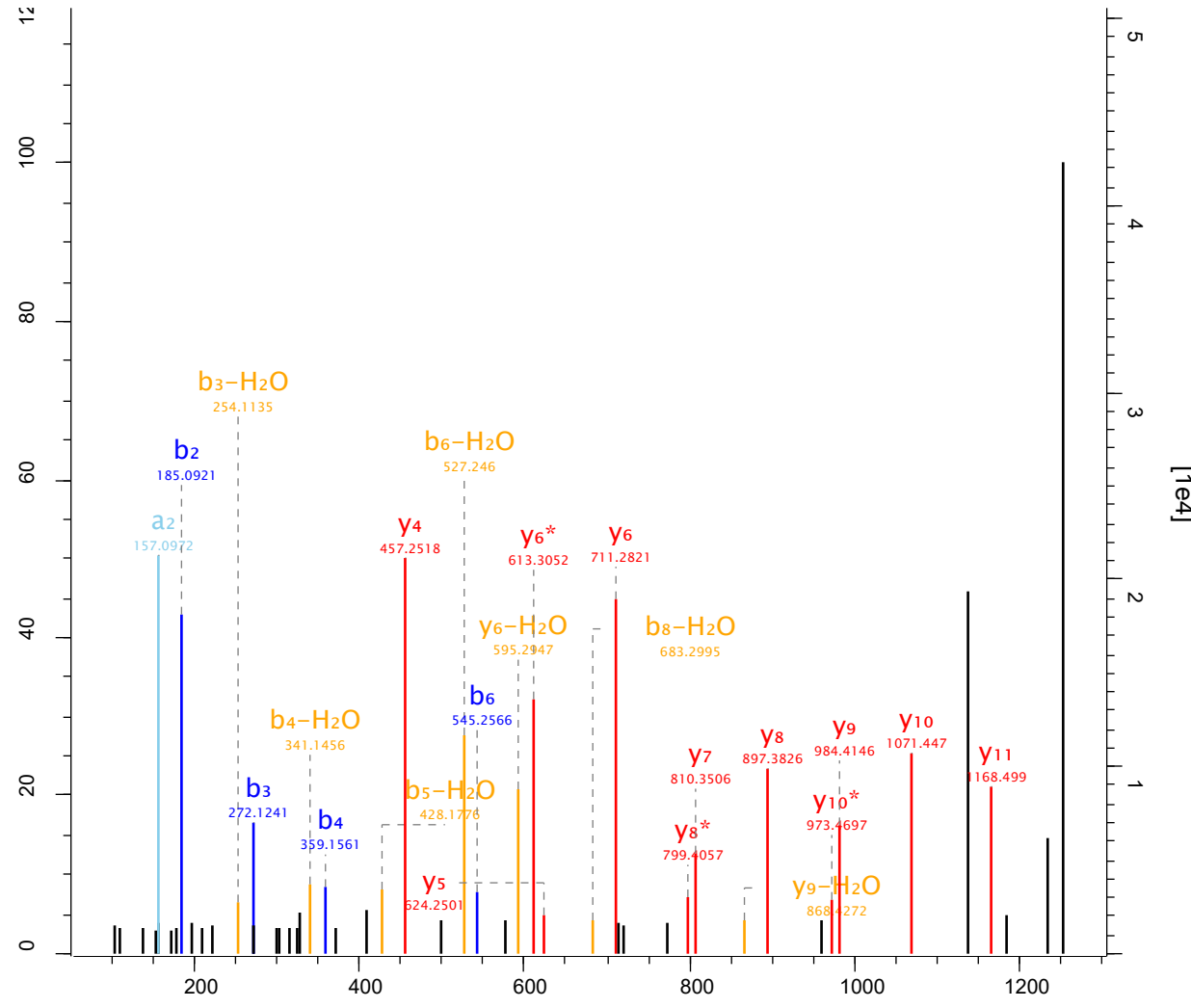


Raw file Scan Method Score m/z  
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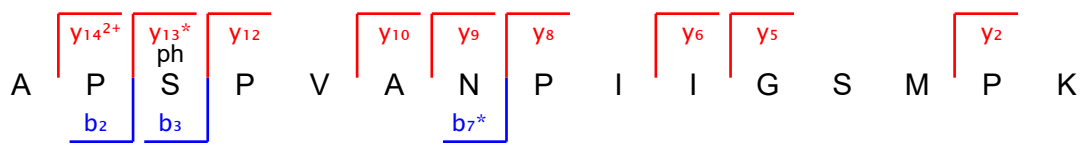
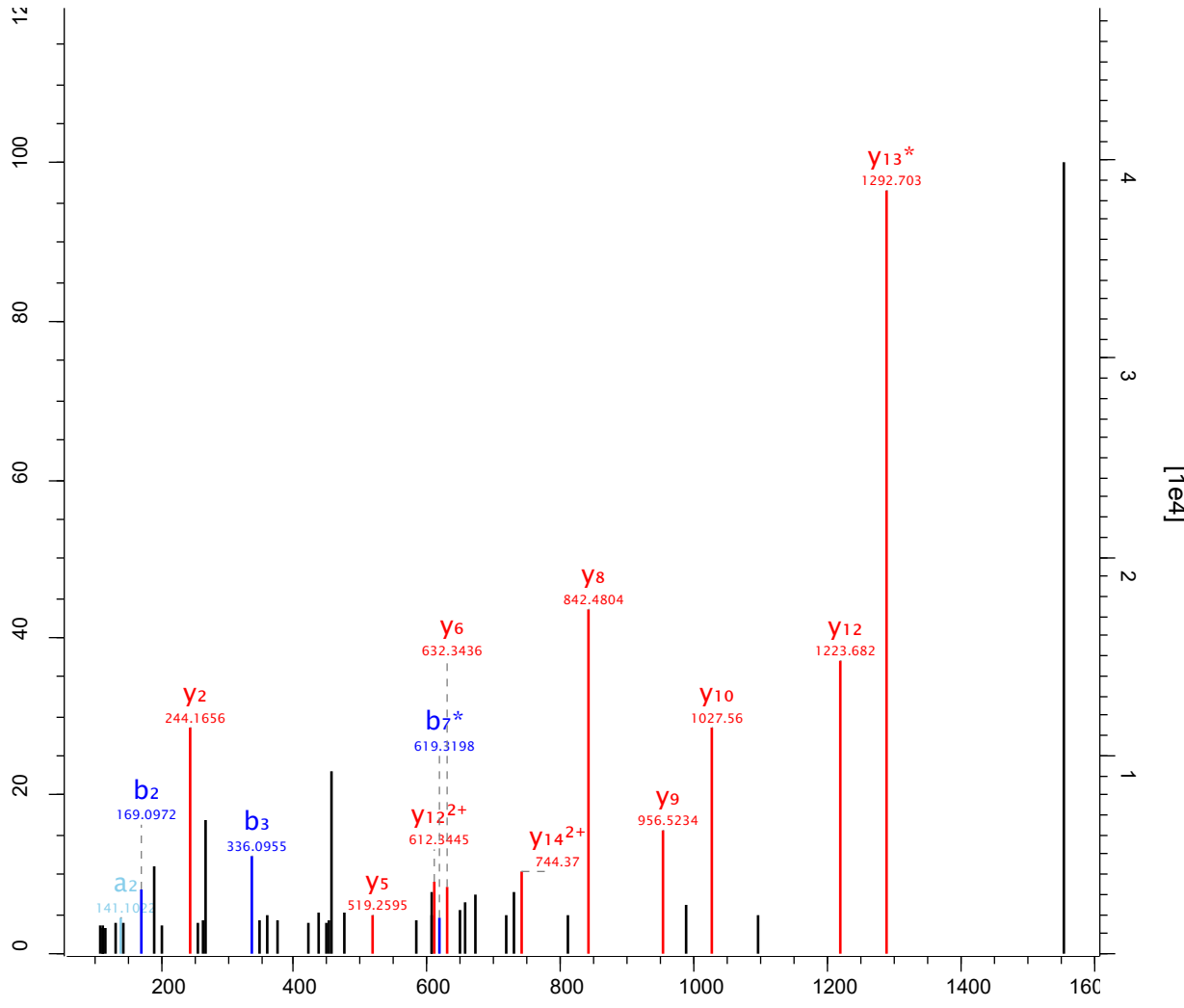
ac - M E Q P P S P A A G Q T Q L E  
 b<sub>2</sub> b<sub>3</sub> b<sub>4</sub>  
 y<sub>1</sub>  
 R -

Raw file Scan Method Score m/z  
 sys\_05\_2 3081 FTMS; HCD 115.91 628.27

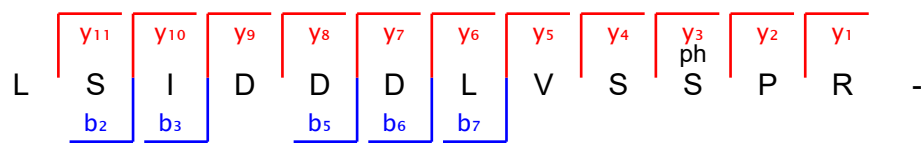
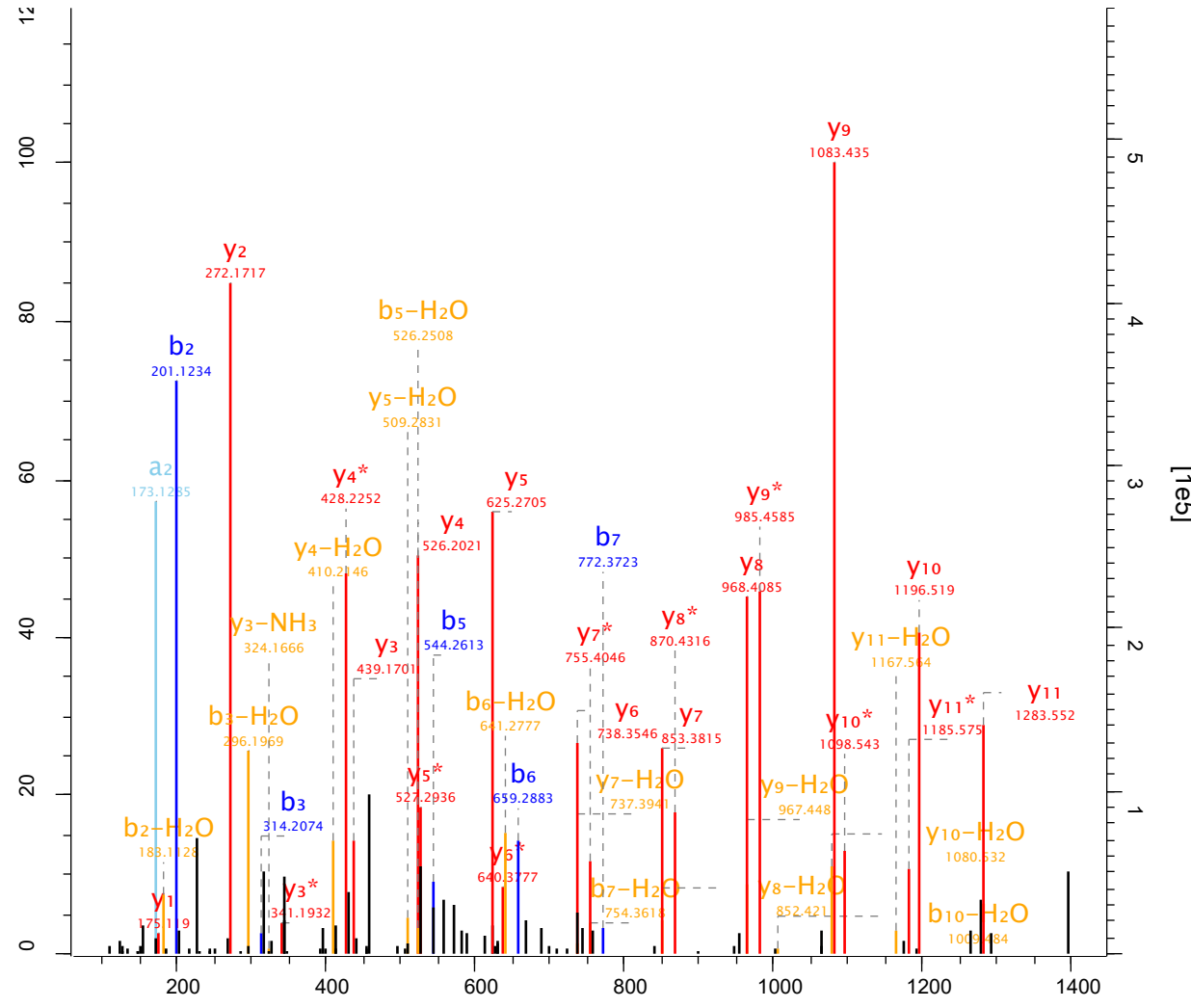




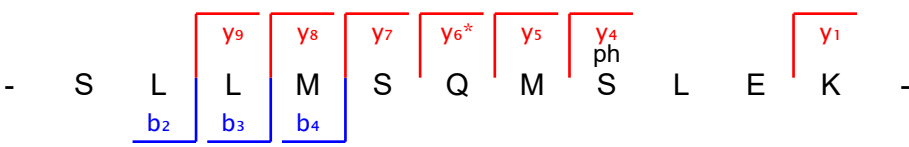
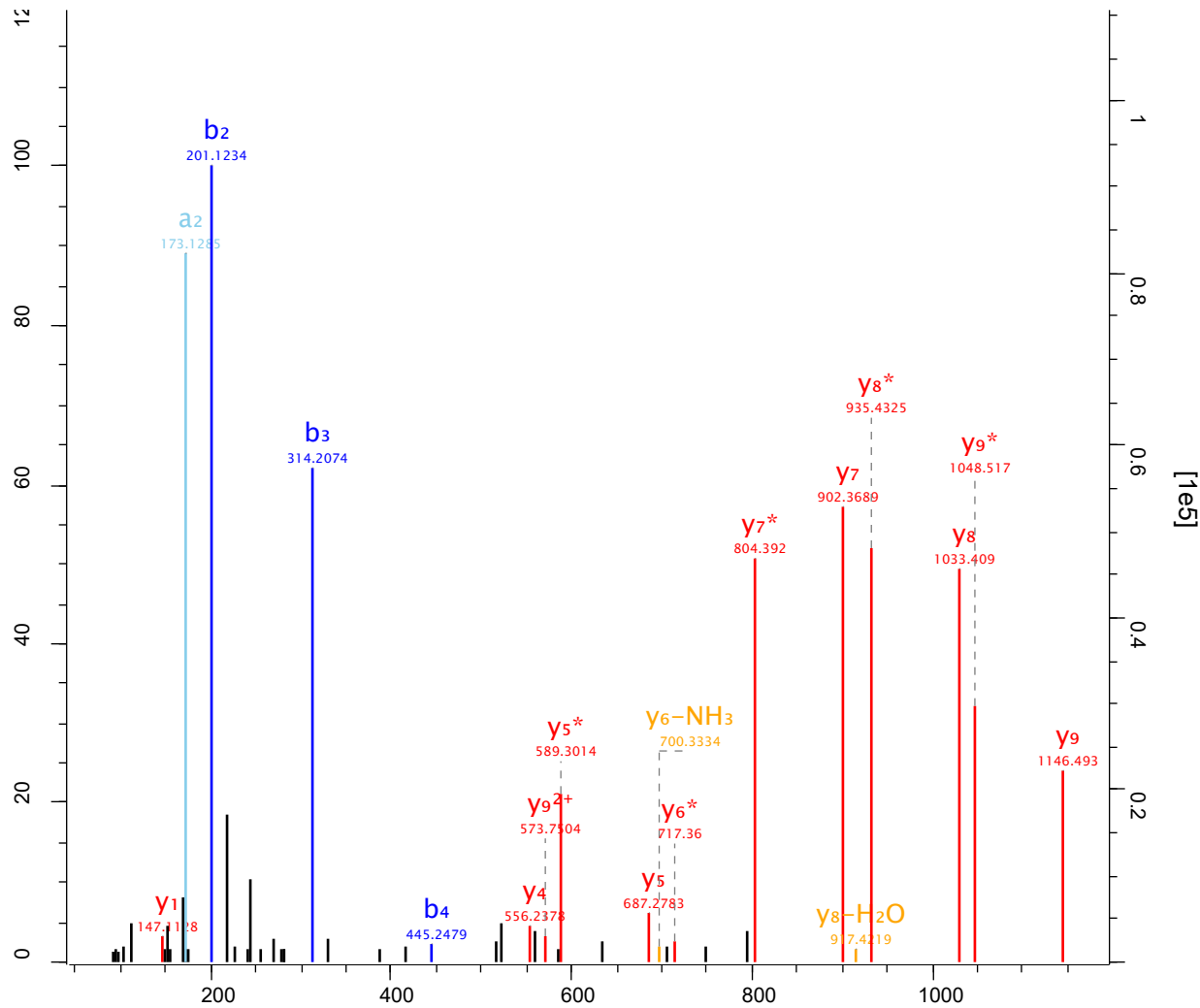
Raw file Scan Method Score m/z  
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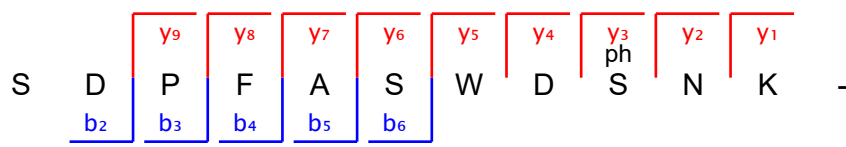
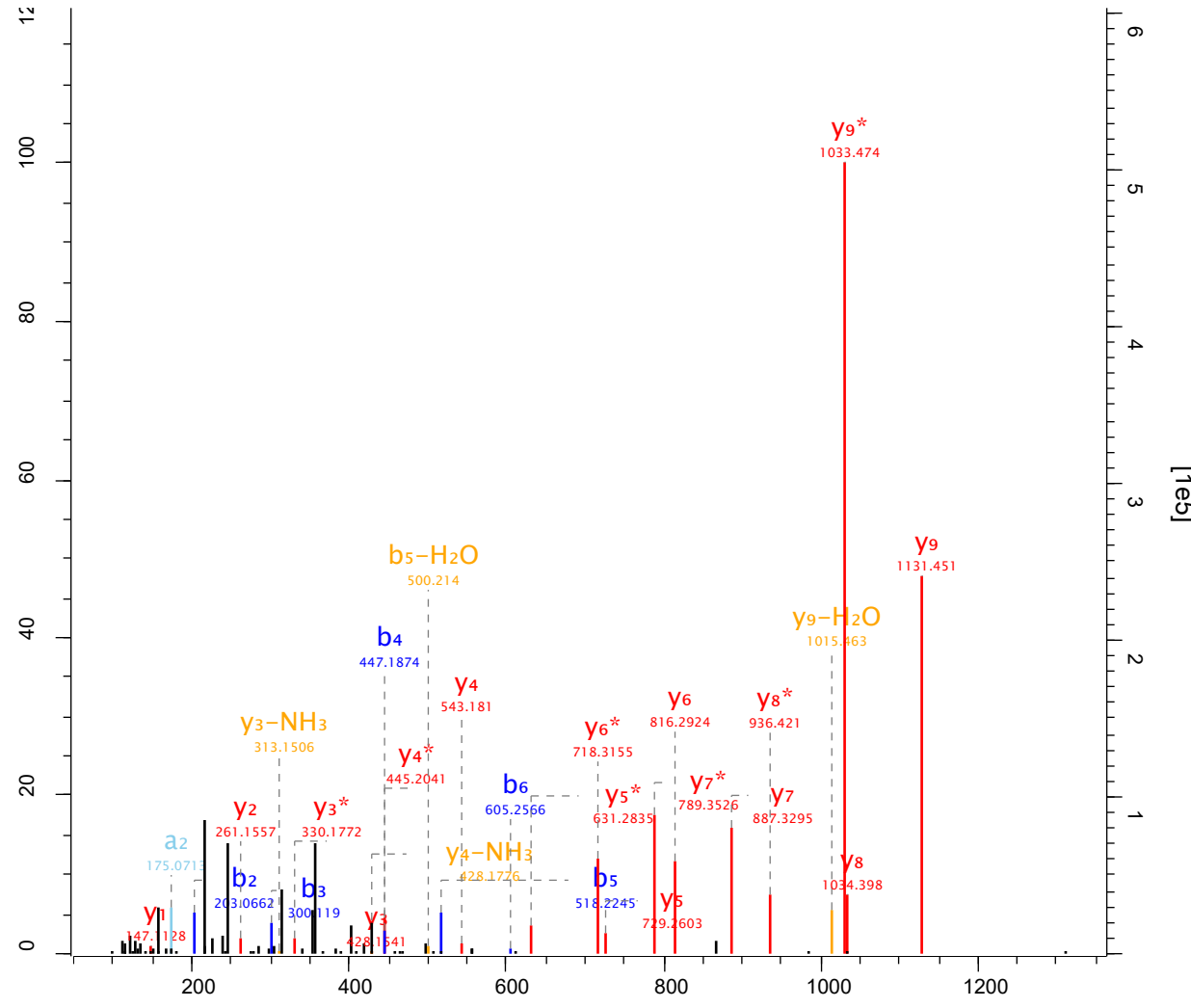
Raw file Scan Method Score m/z  
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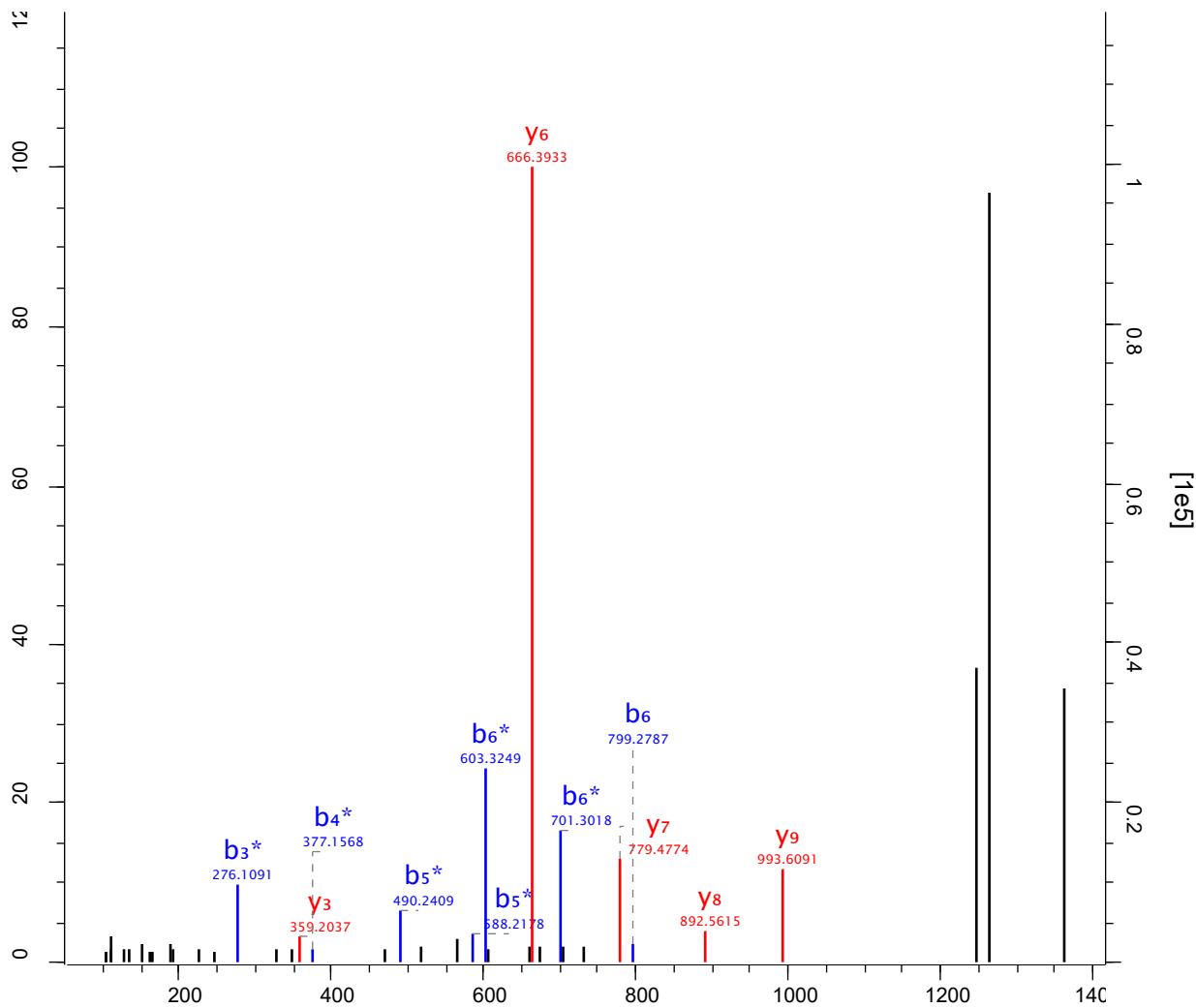
Raw file Scan Method Score m/z  
 sys\_05\_2 31109 FTMS; HCD 84.75 673.81



Raw file Scan Method Score m/z  
 sys\_05\_2 31487 FTMS; HCD 109.79 667.26



Raw file Scan Method Score m/z  
 sys\_05\_2 31591 FTMS; HCD 47.55 732.83



ph S ph S H T L L P P L P S R -  
 b3\* b4\* b5\* b6 y9 y8 y7 y6 y3

Raw file Scan Method Score m/z  
 sys\_05\_2 31802 FTMS; HCD 66.02 664.3

