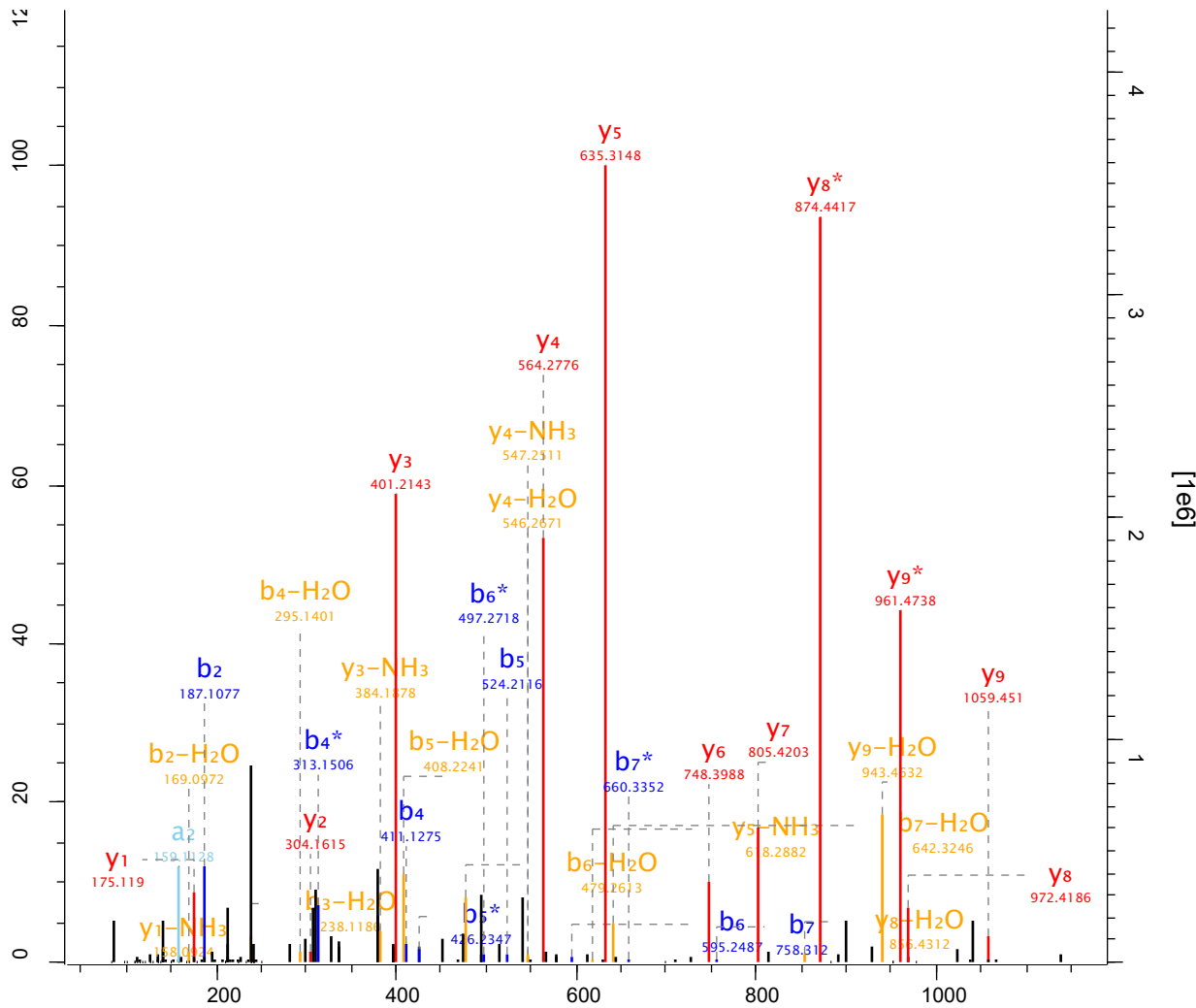


**Supplementary Figure 2:** Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.

Raw file Scan Method Score m/z  
 sys\_15\_1 13874 FTMS; HCD 139.7 579.76

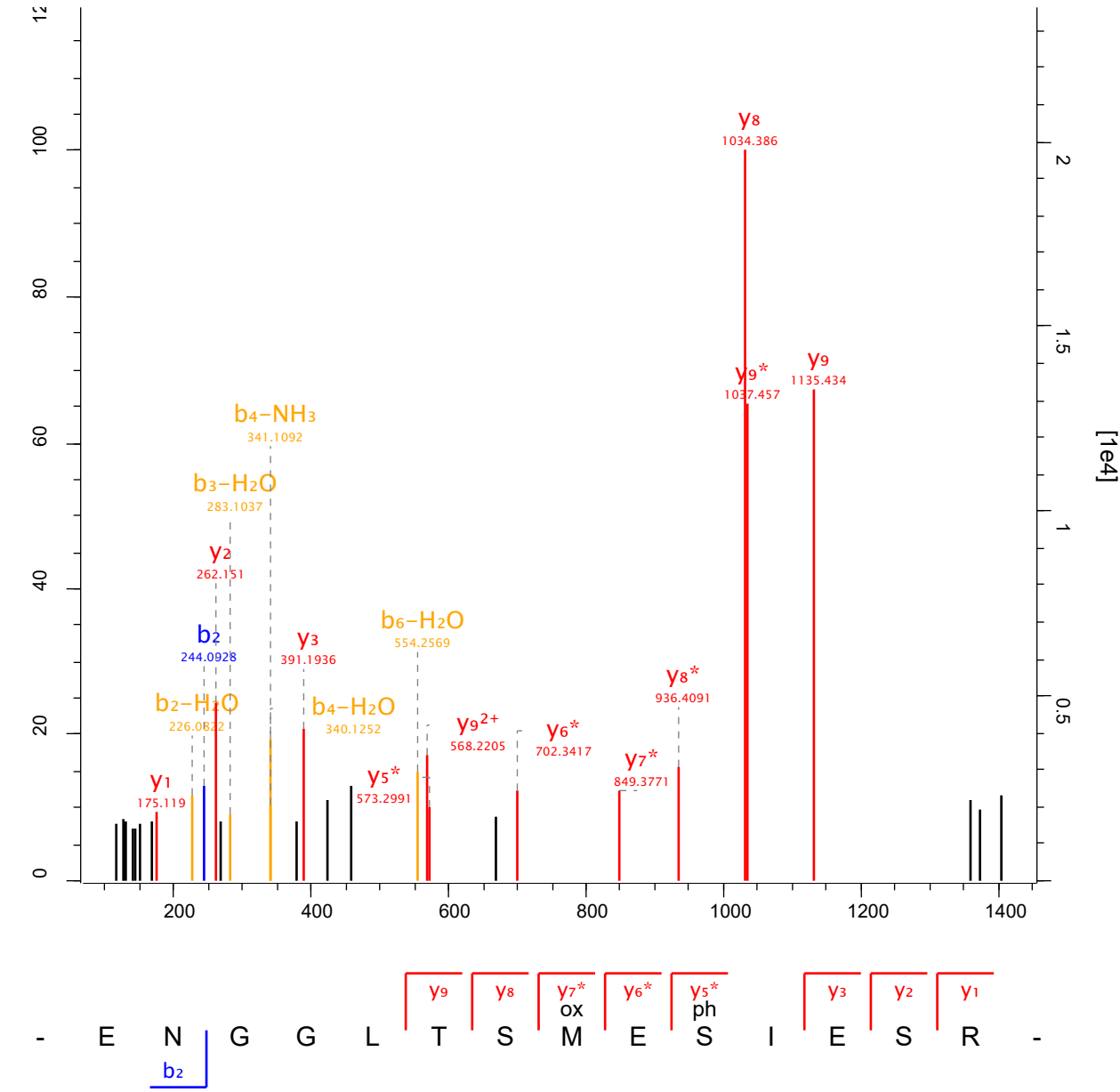


V - S S G L A Y P E R -

y9
y8
y7
y6
y5
y4
y3
y2
y1  
 S ph S G L A Y P E R  
b2
b4
b5
b6
b7

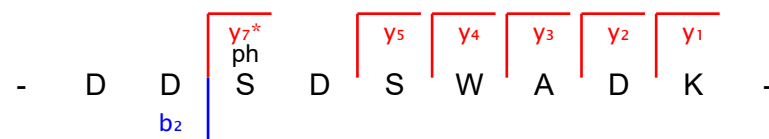
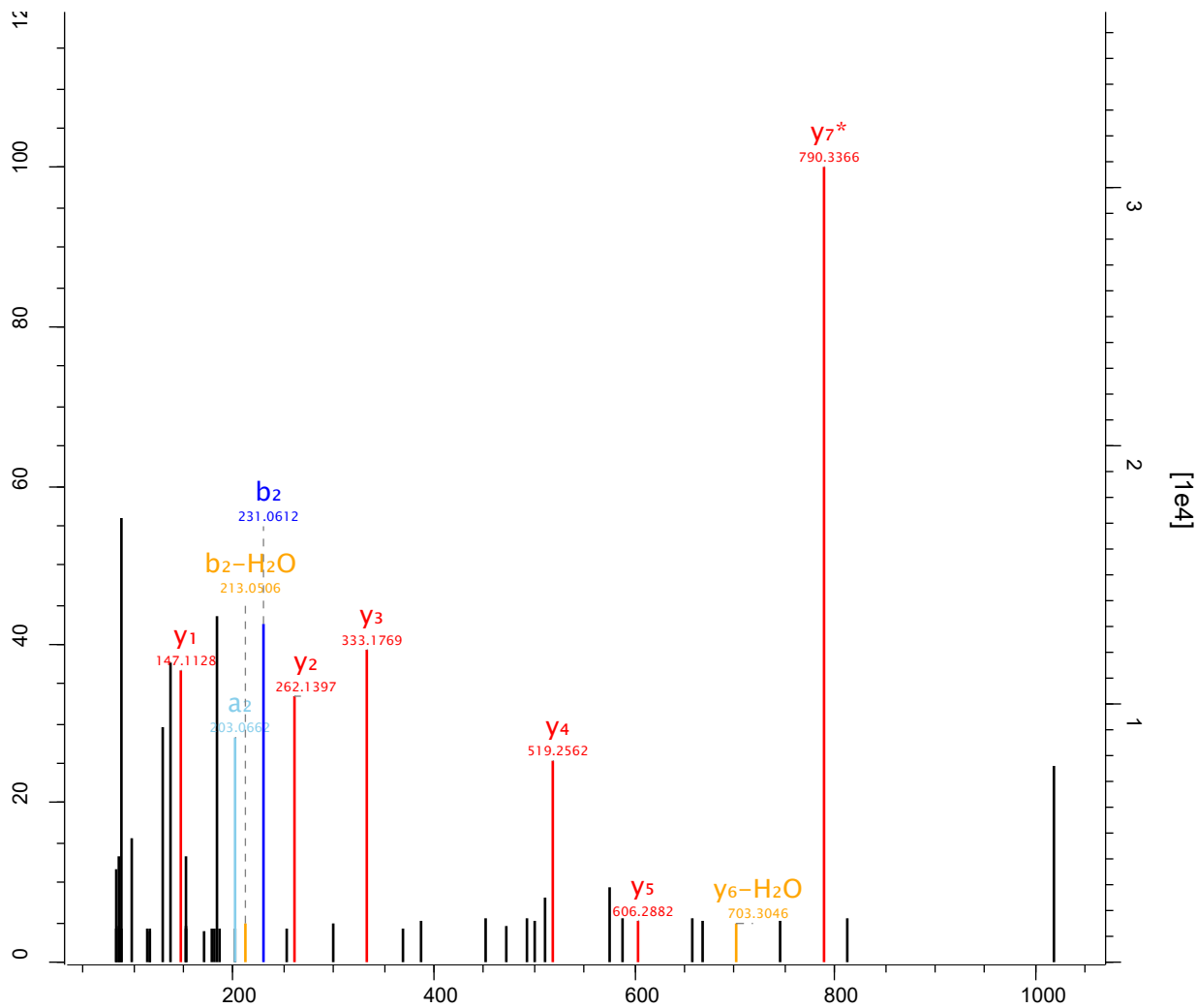


Raw file Scan Method Score m/z  
 sys\_15\_1 13948 FTMS; HCD 50.18 803.33

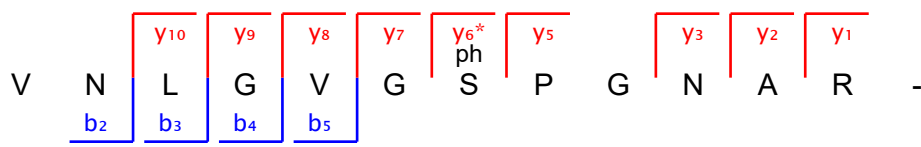
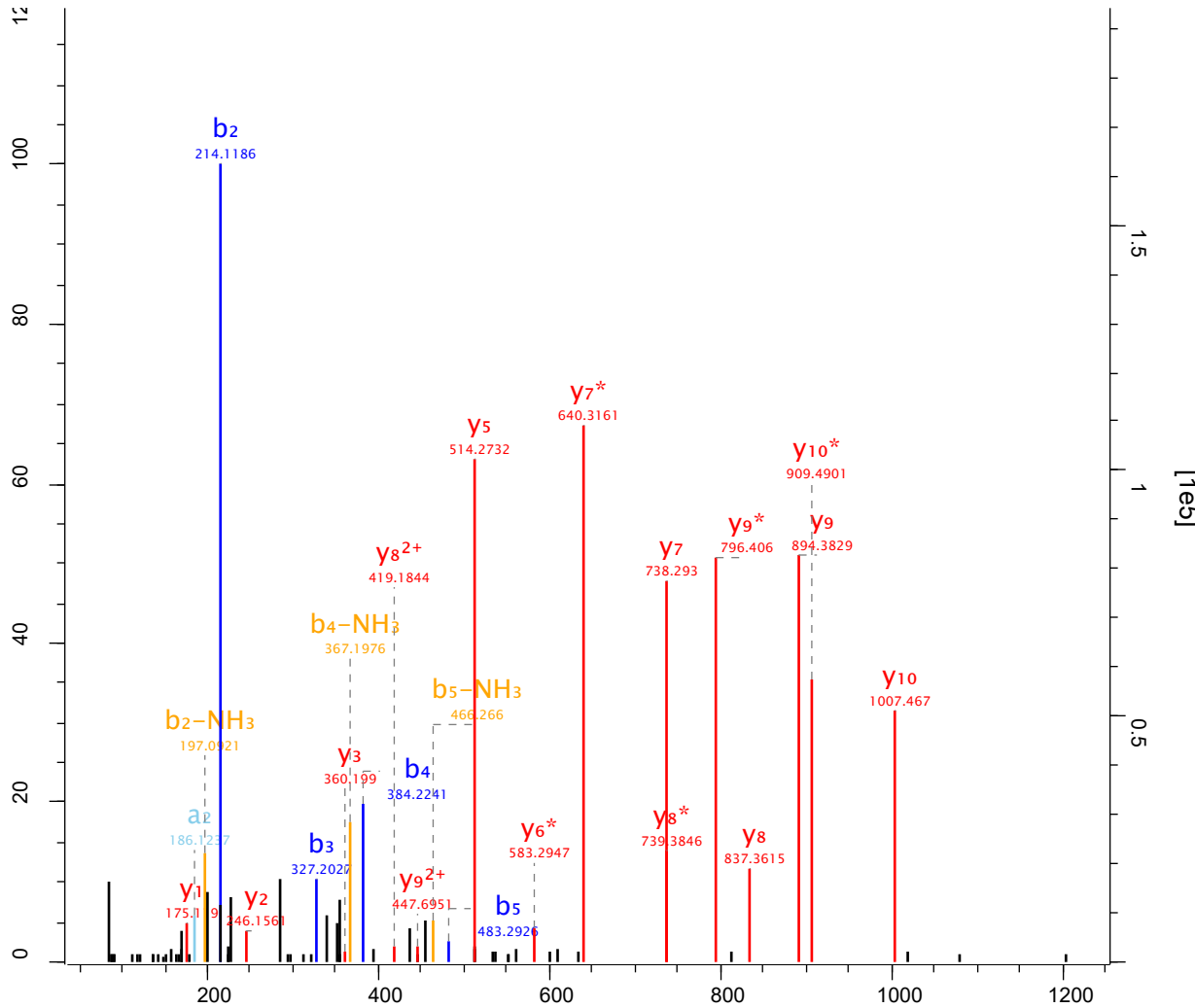




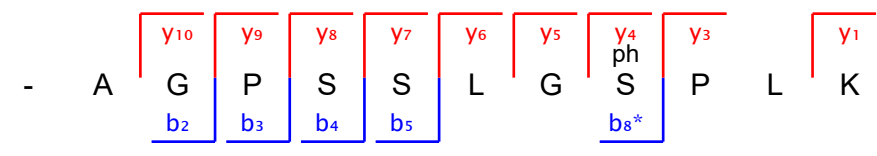
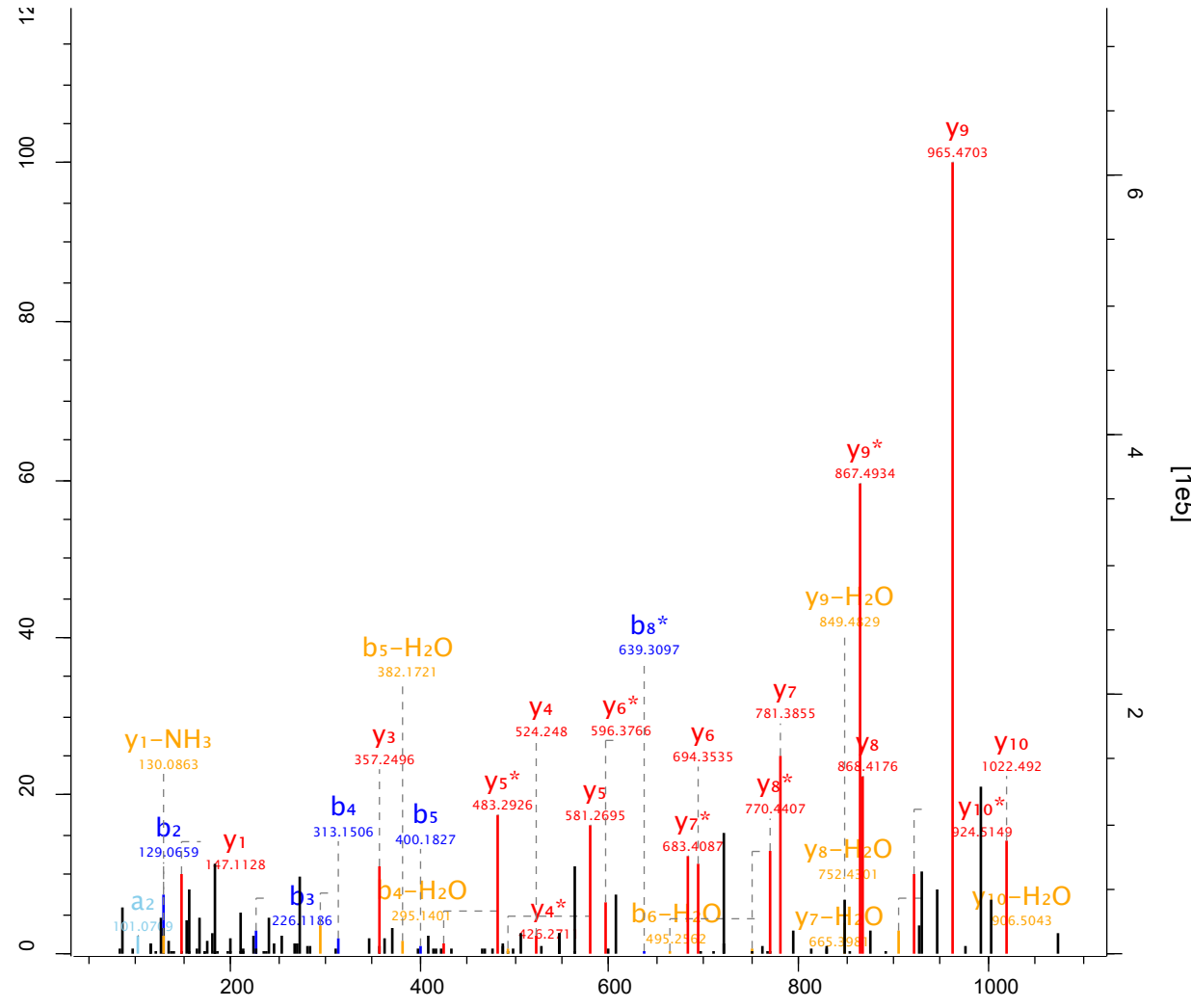
Raw file	Scan	Method	Score	m/z
sys_15_1	14016	FTMS; HCD	45.37	559.69



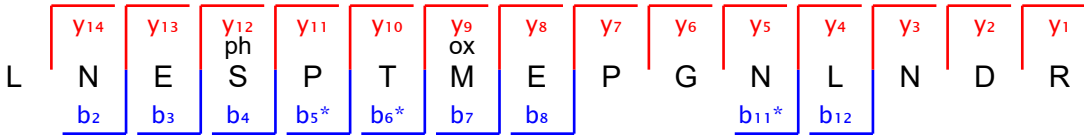
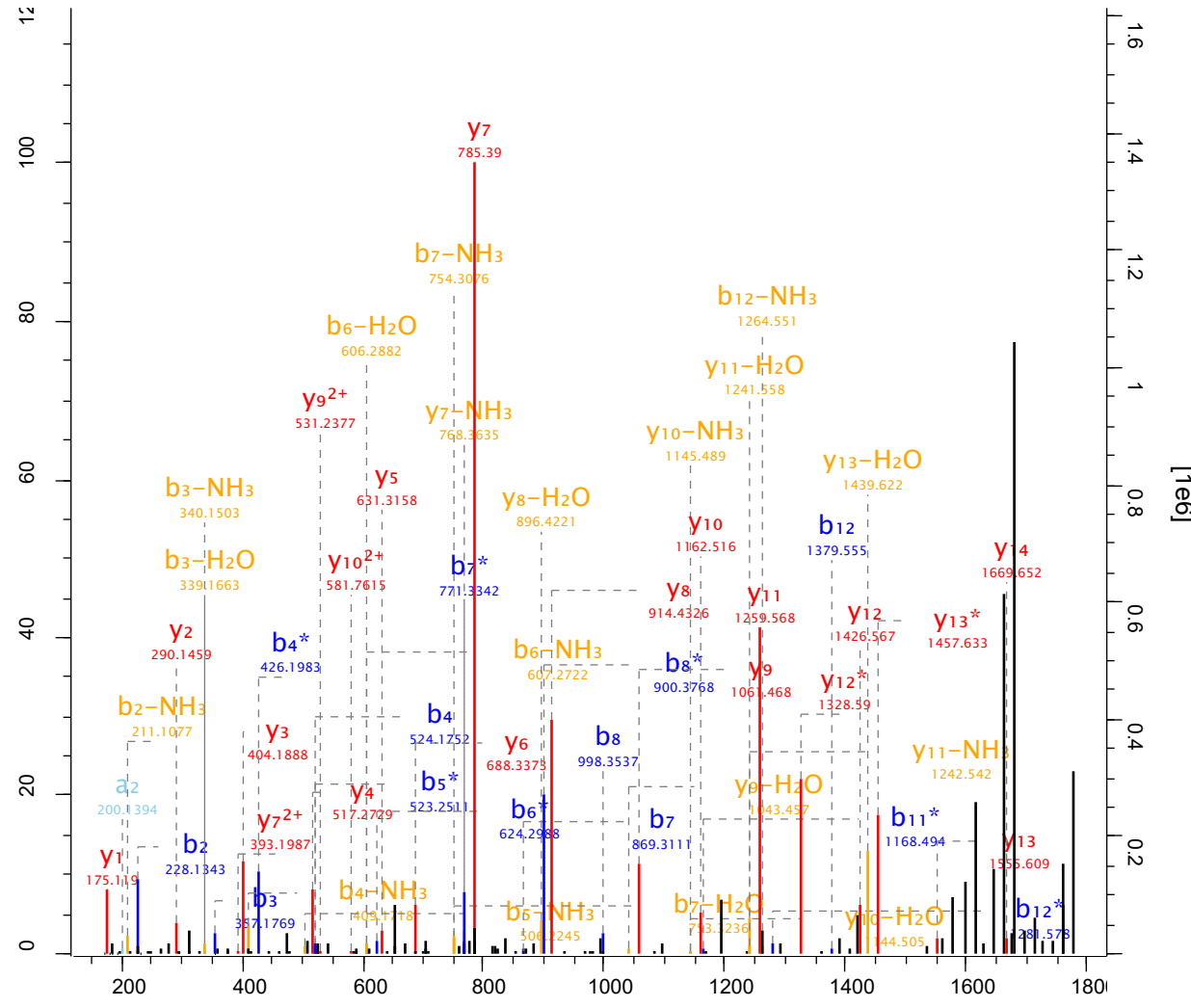
Raw file Scan Method Score m/z  
 sys\_15\_1 14039 FTMS; HCD 95.57 610.79



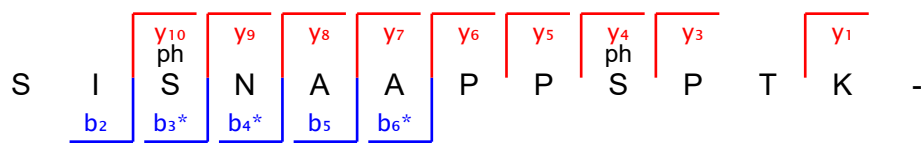
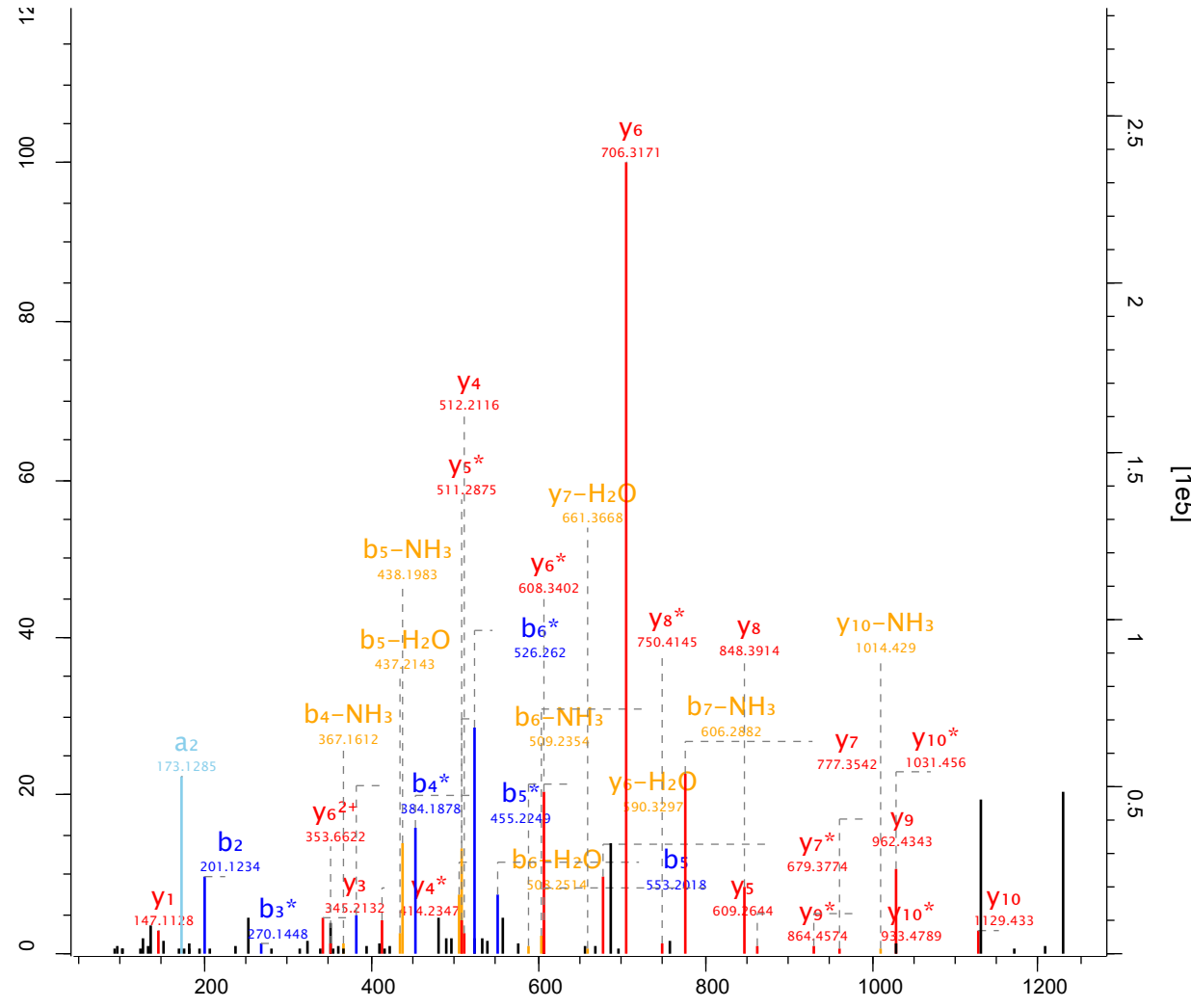
Raw file Scan Method Score m/z  
 sys\_15\_1 14217 FTMS; HCD 136.14 547.27



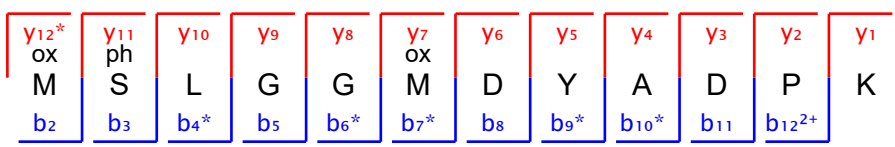
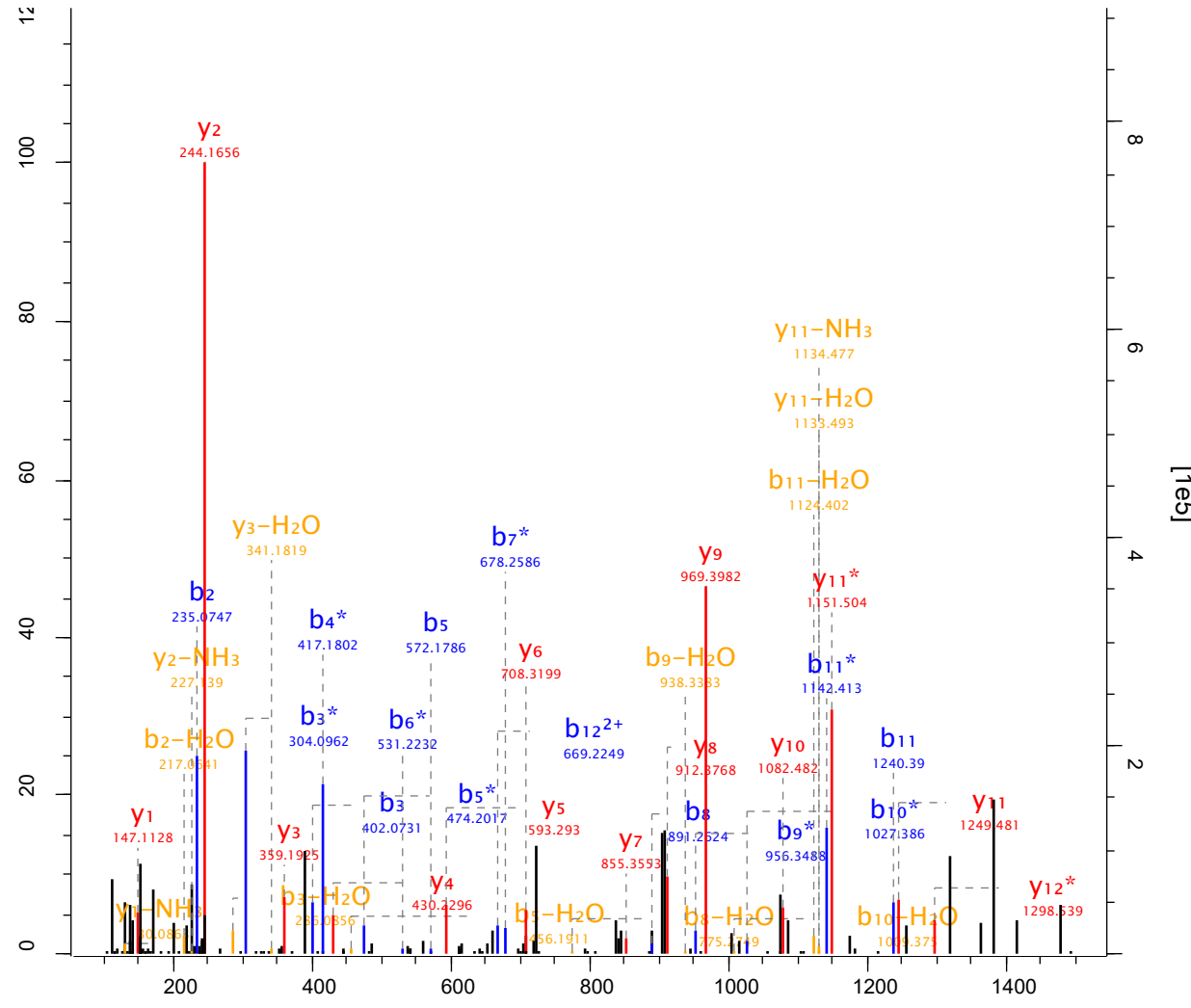
Raw file Scan Method Score m/z  
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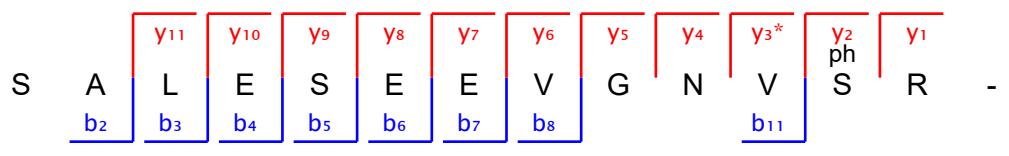
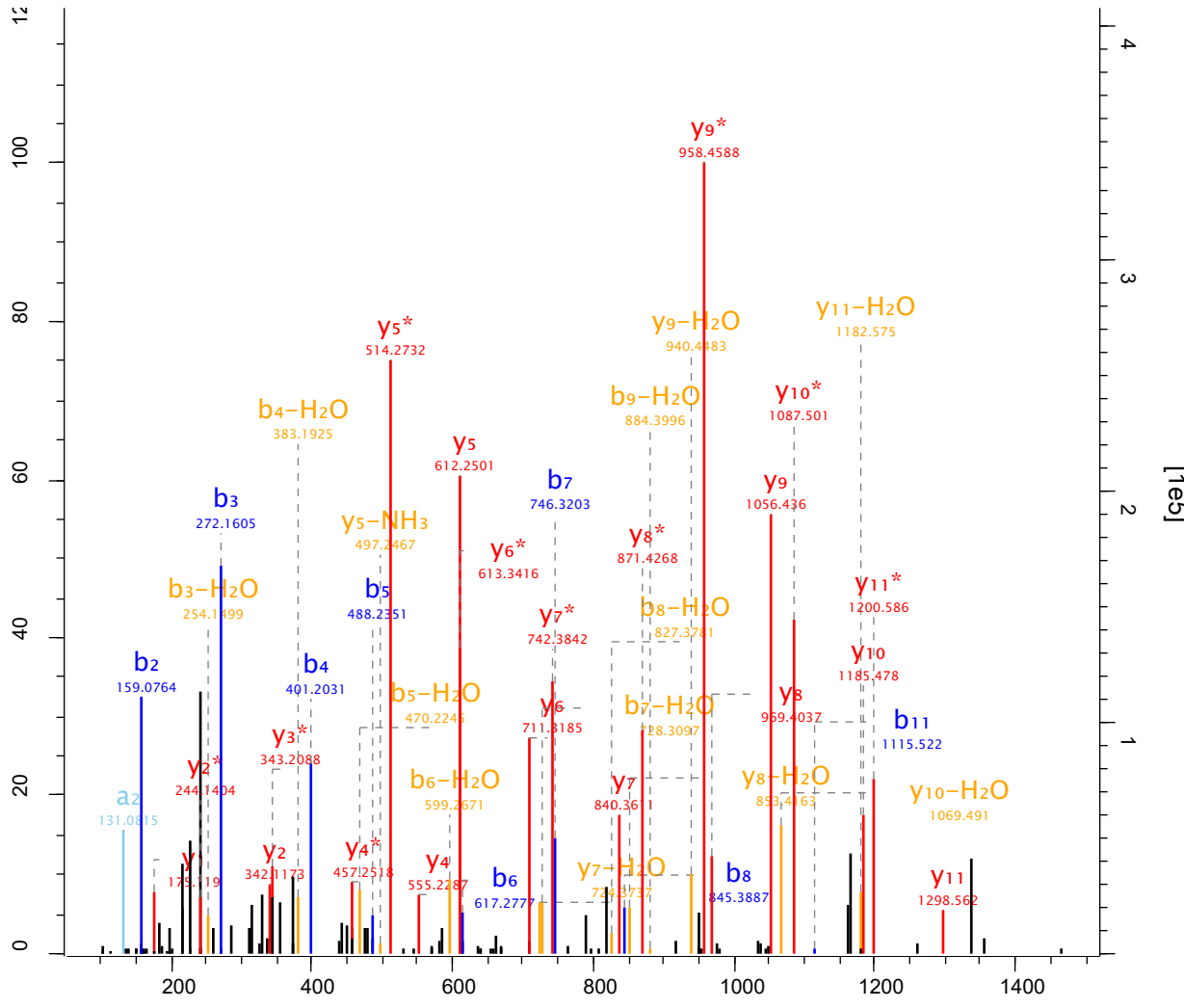
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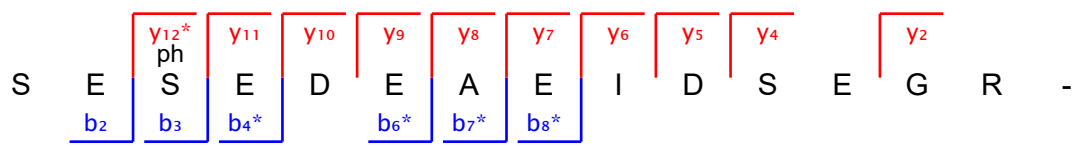
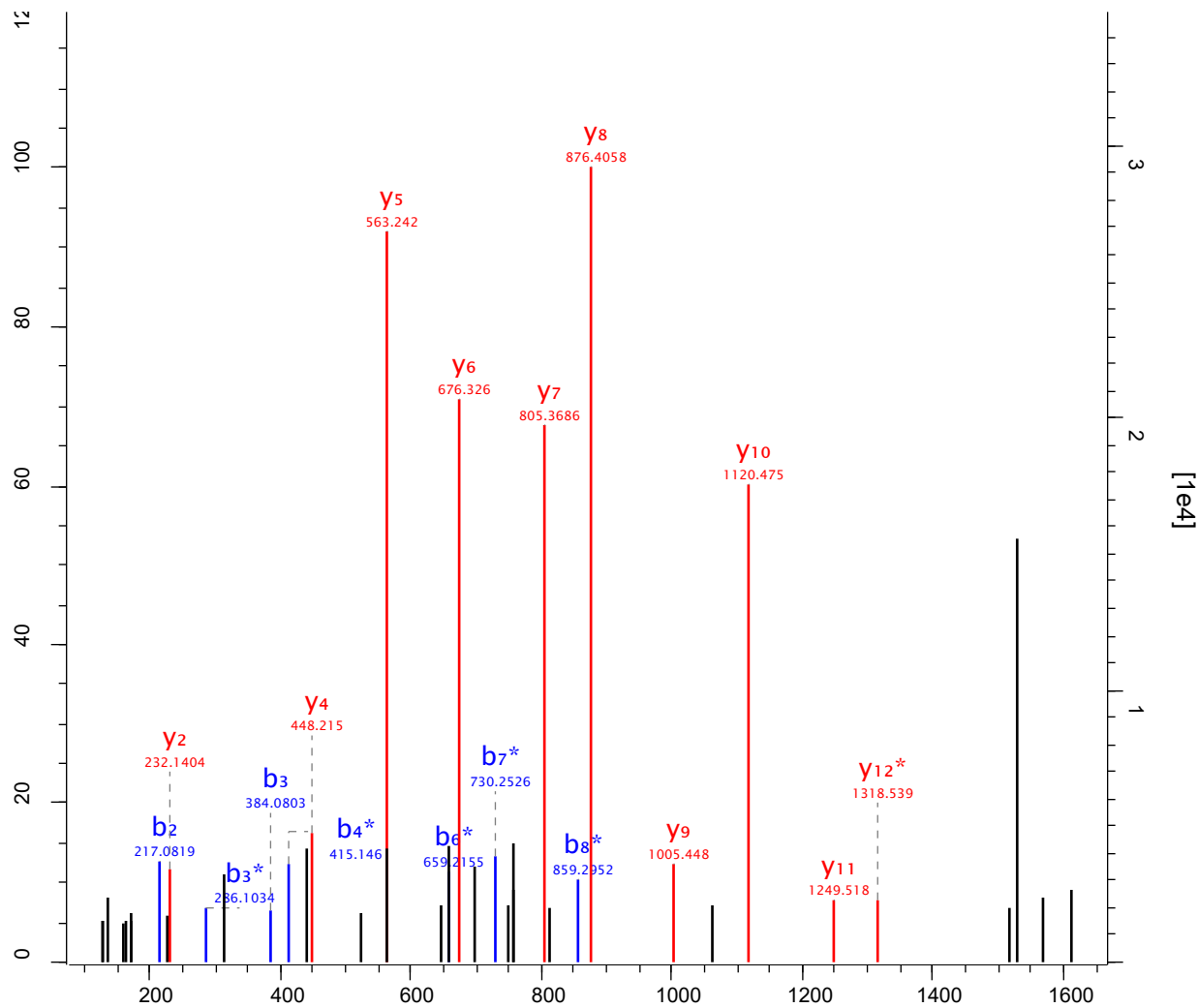
Raw file Scan Method Score m/z  
 sys\_15\_1 14339 FTMS; HCD 167.18 742.28



Raw file Scan Method Score m/z  
 sys\_15\_1 14353 FTMS; HCD 267.38 728.82

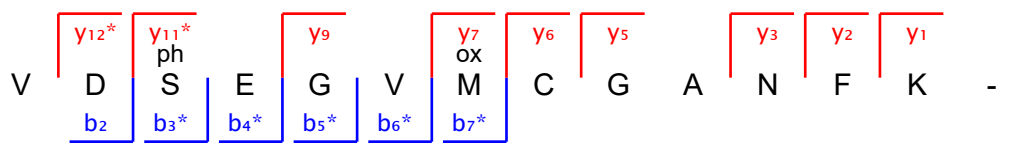
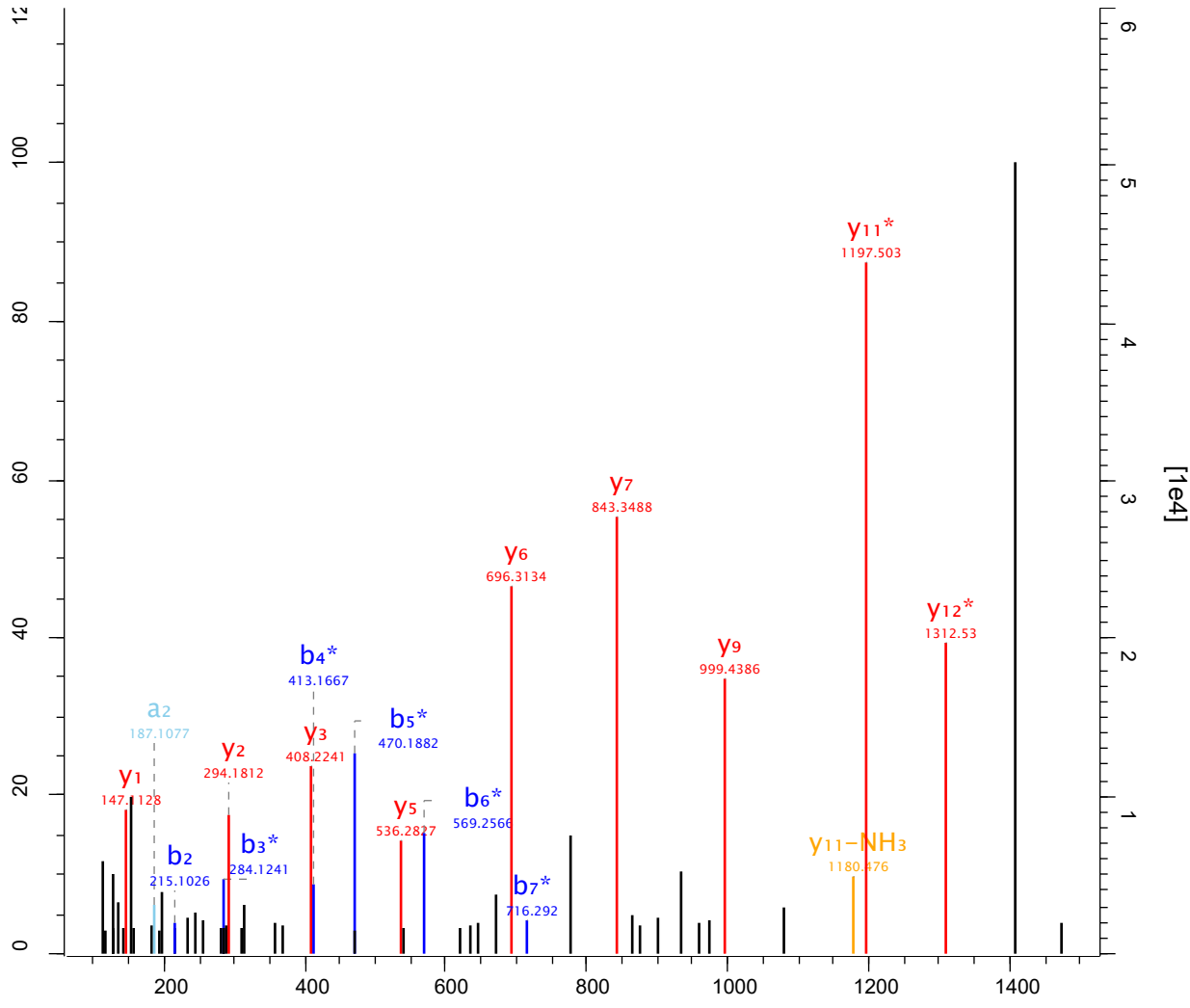


Raw file Scan Method Score m/z  
 sys\_15\_1 14357 FTMS; HCD 77.22 816.8



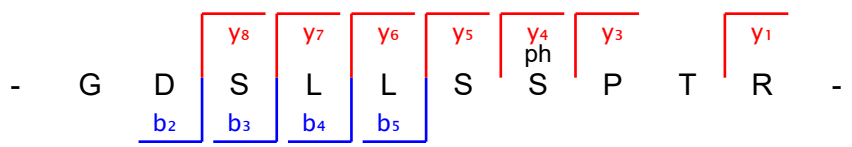
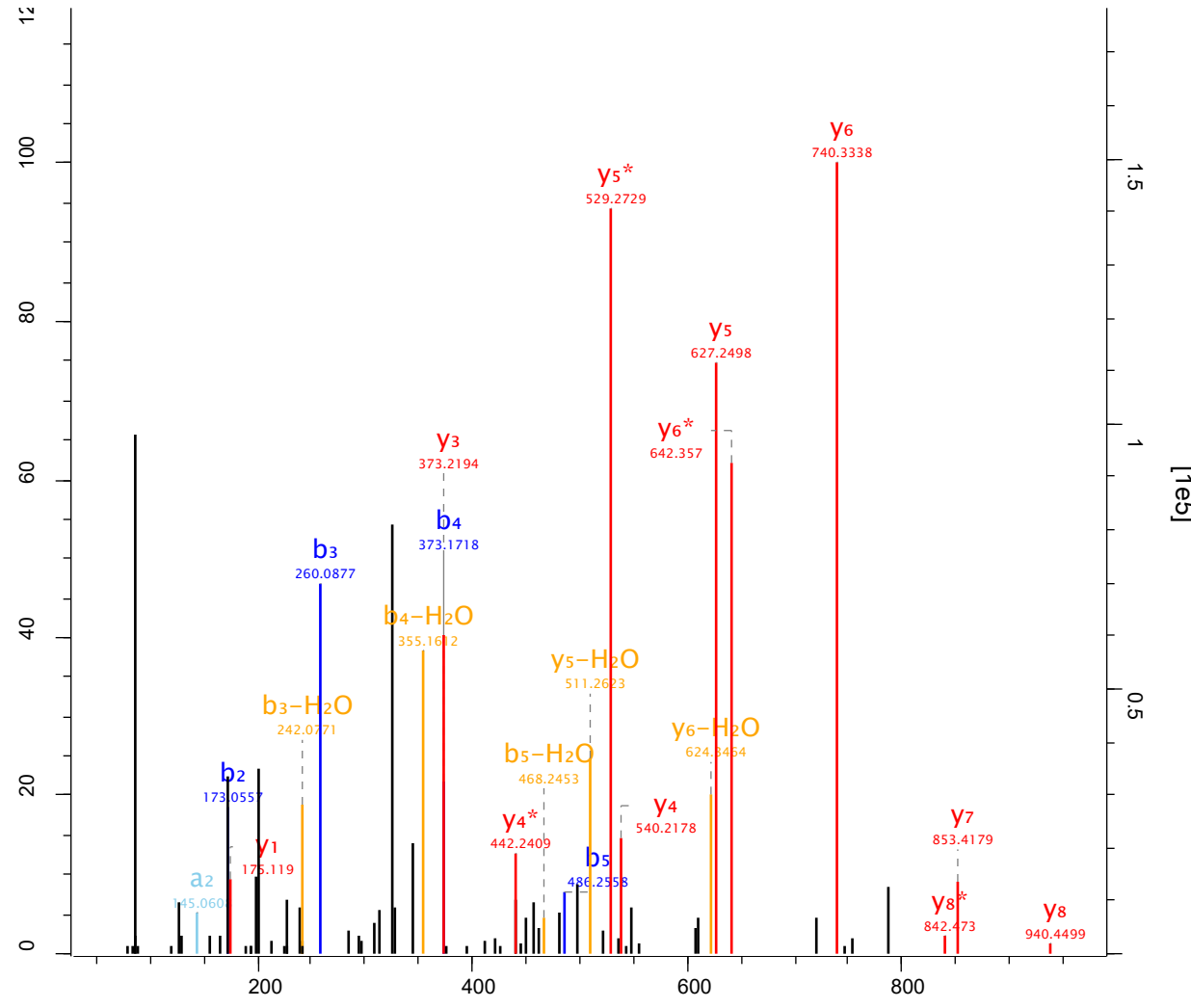


Raw file Scan Method Score m/z  
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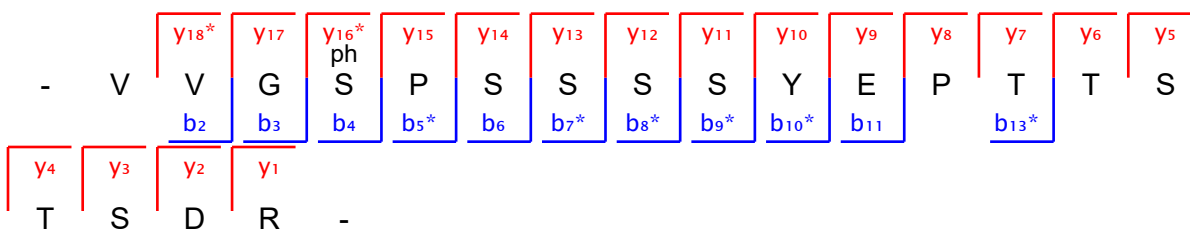
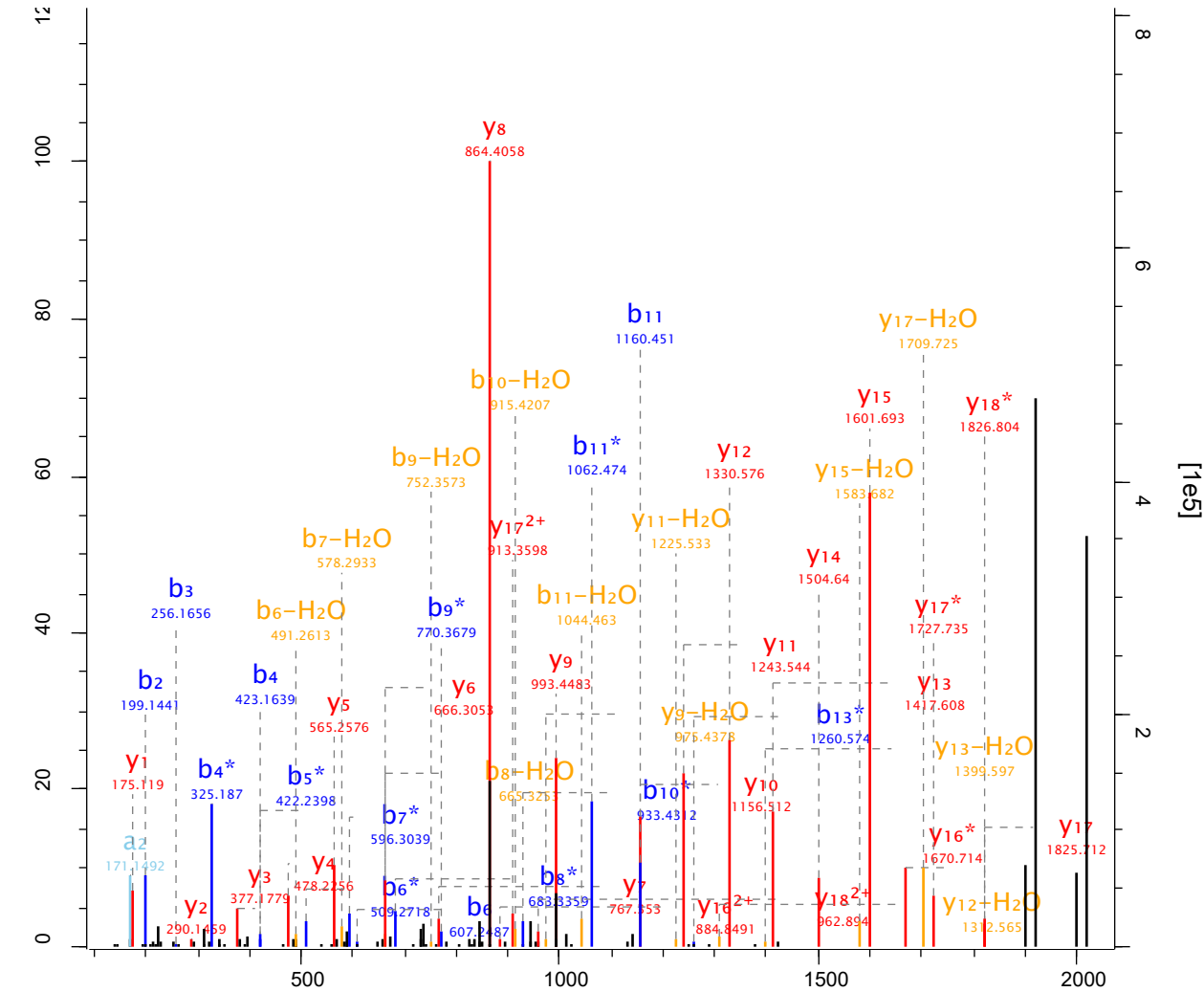




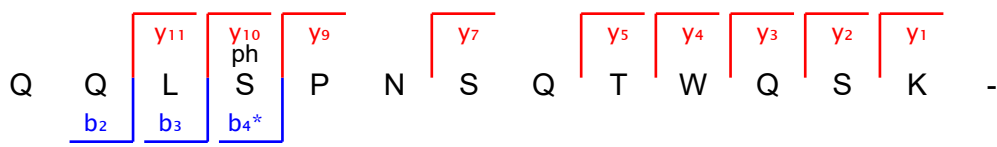
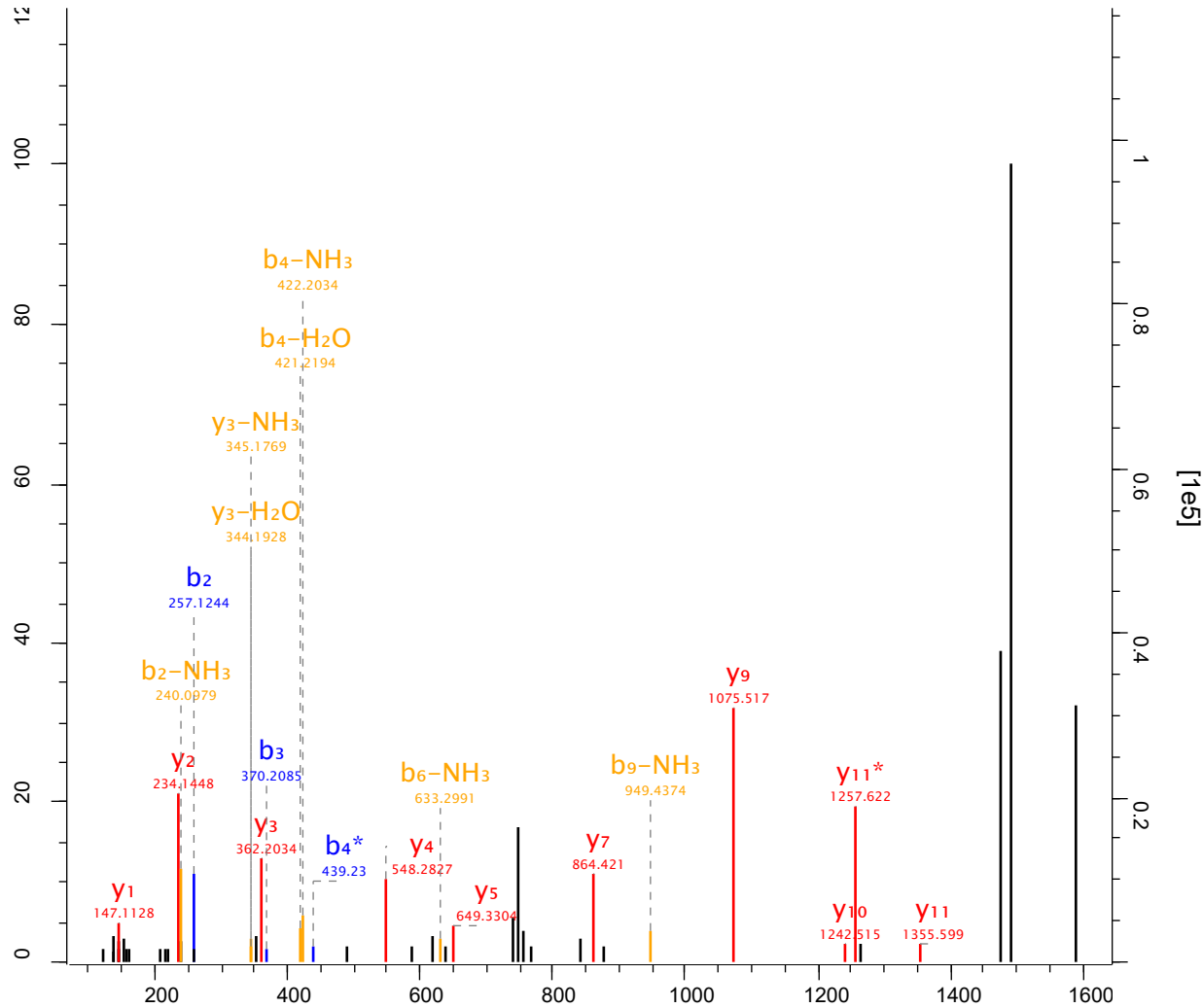
Raw file Scan Method Score m/z  
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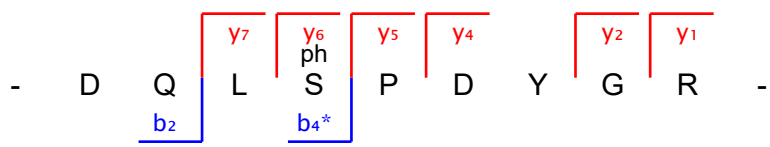
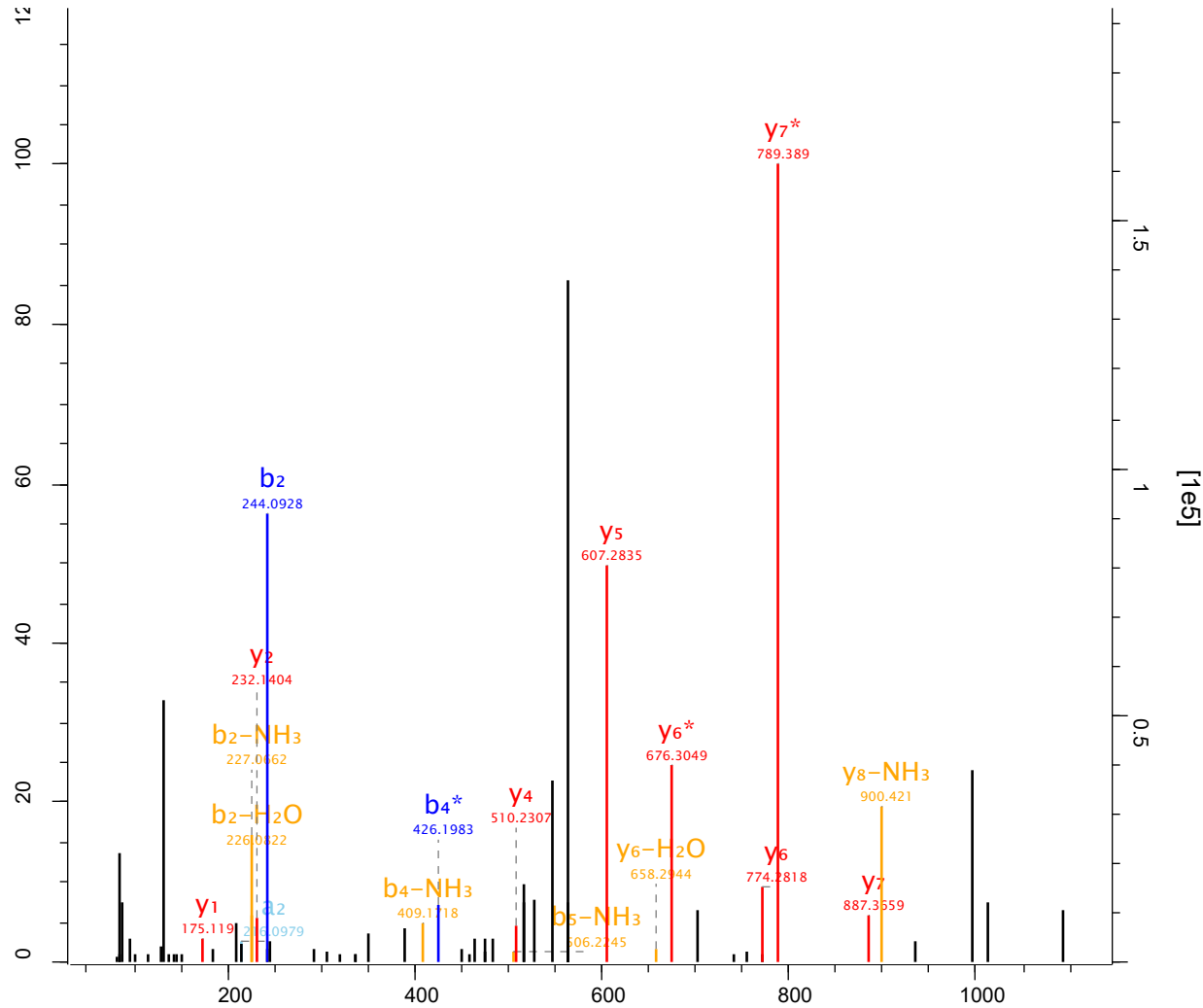
Raw file Scan Method Score m/z  
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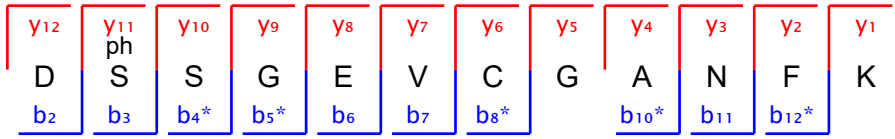
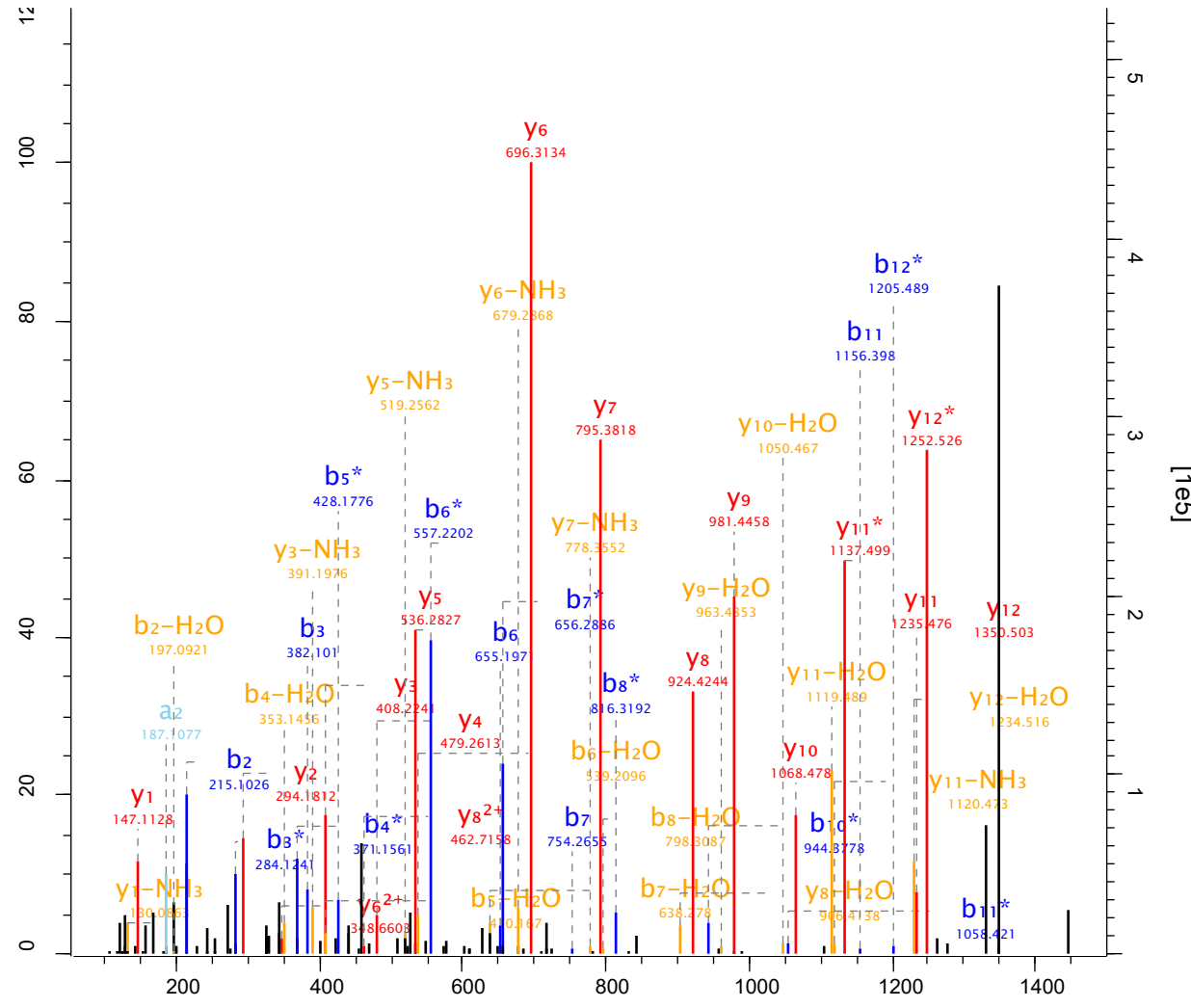
Raw file Scan Method Score m/z  
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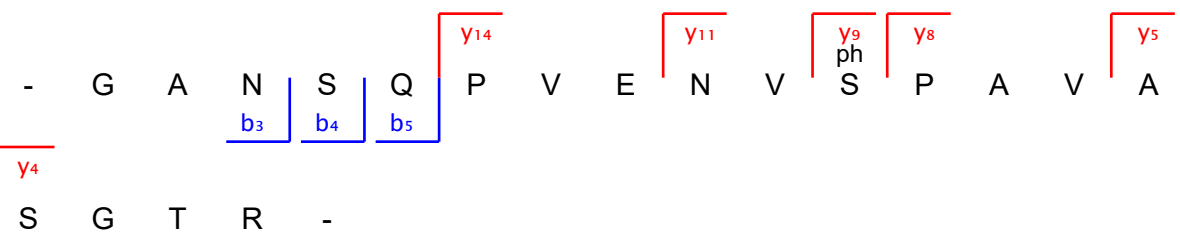
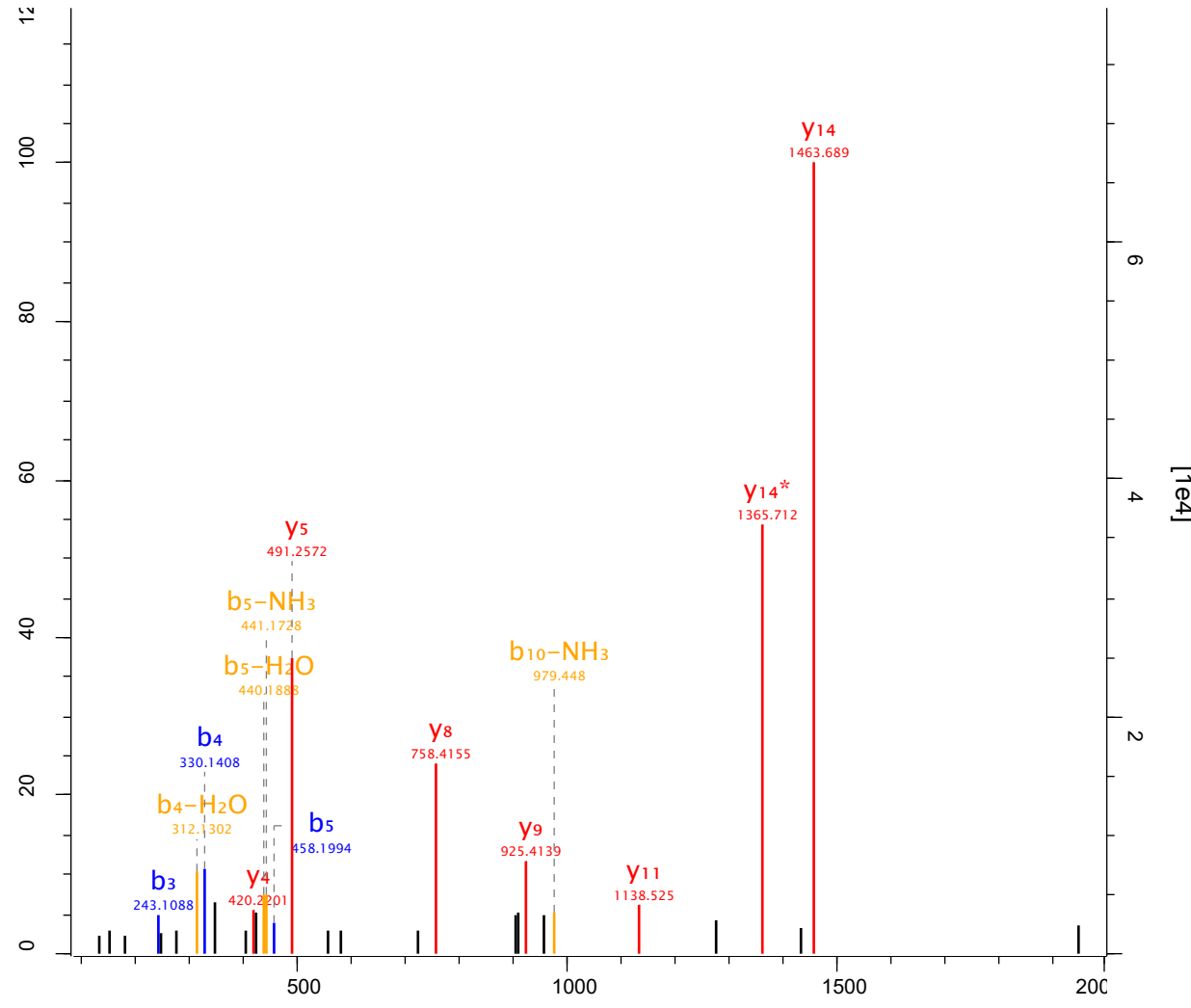
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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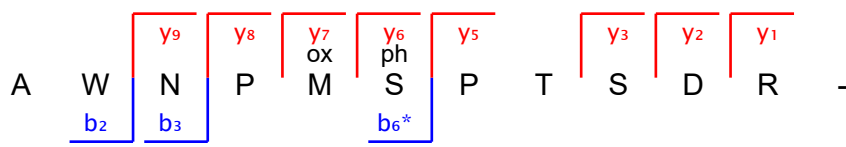
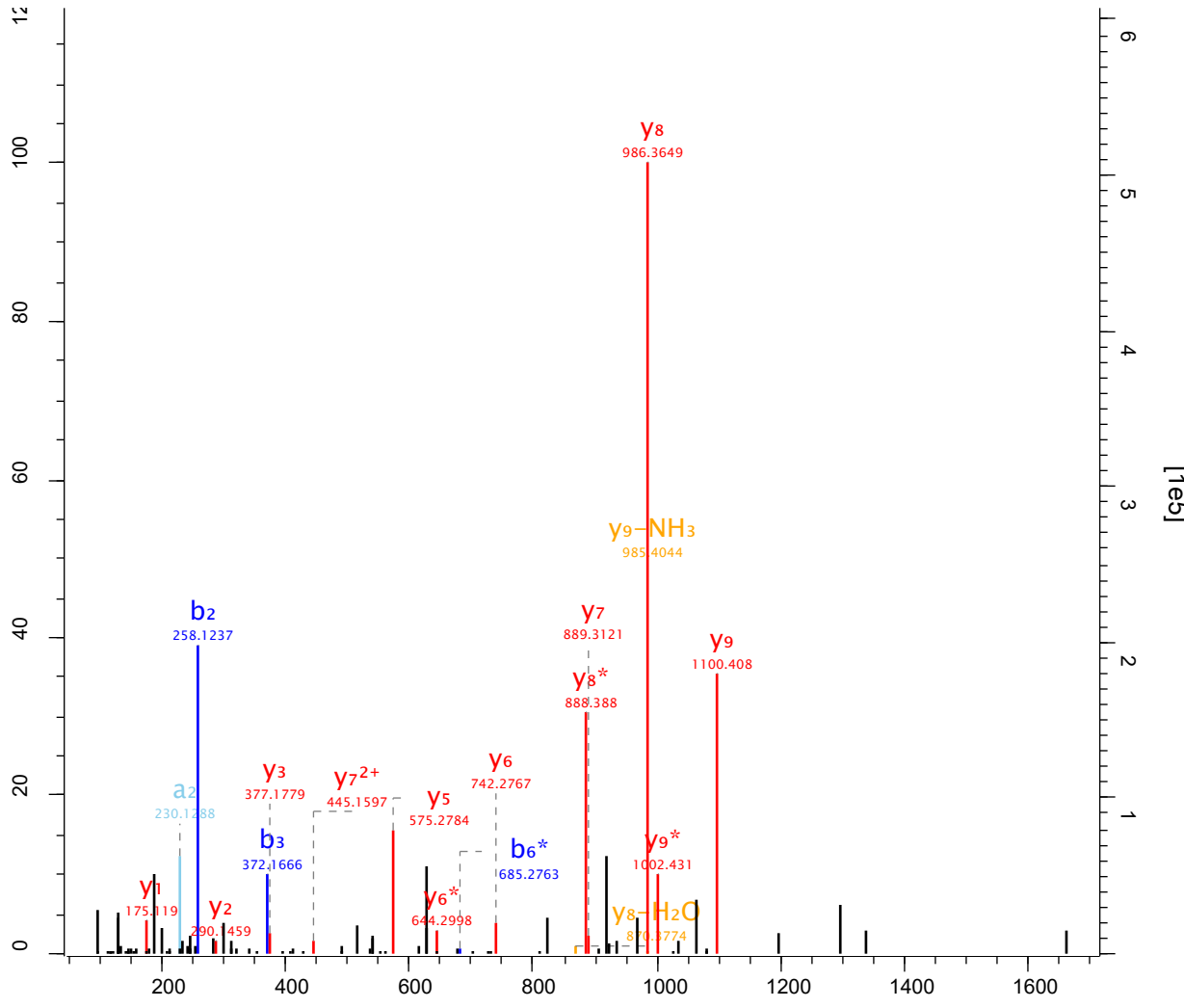


Raw file Scan Method Score m/z  
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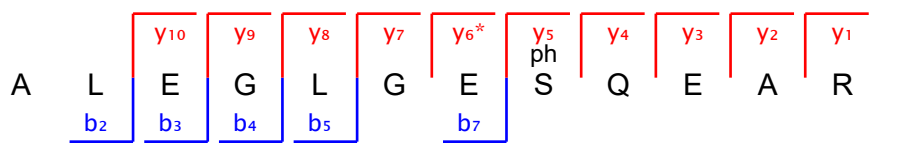
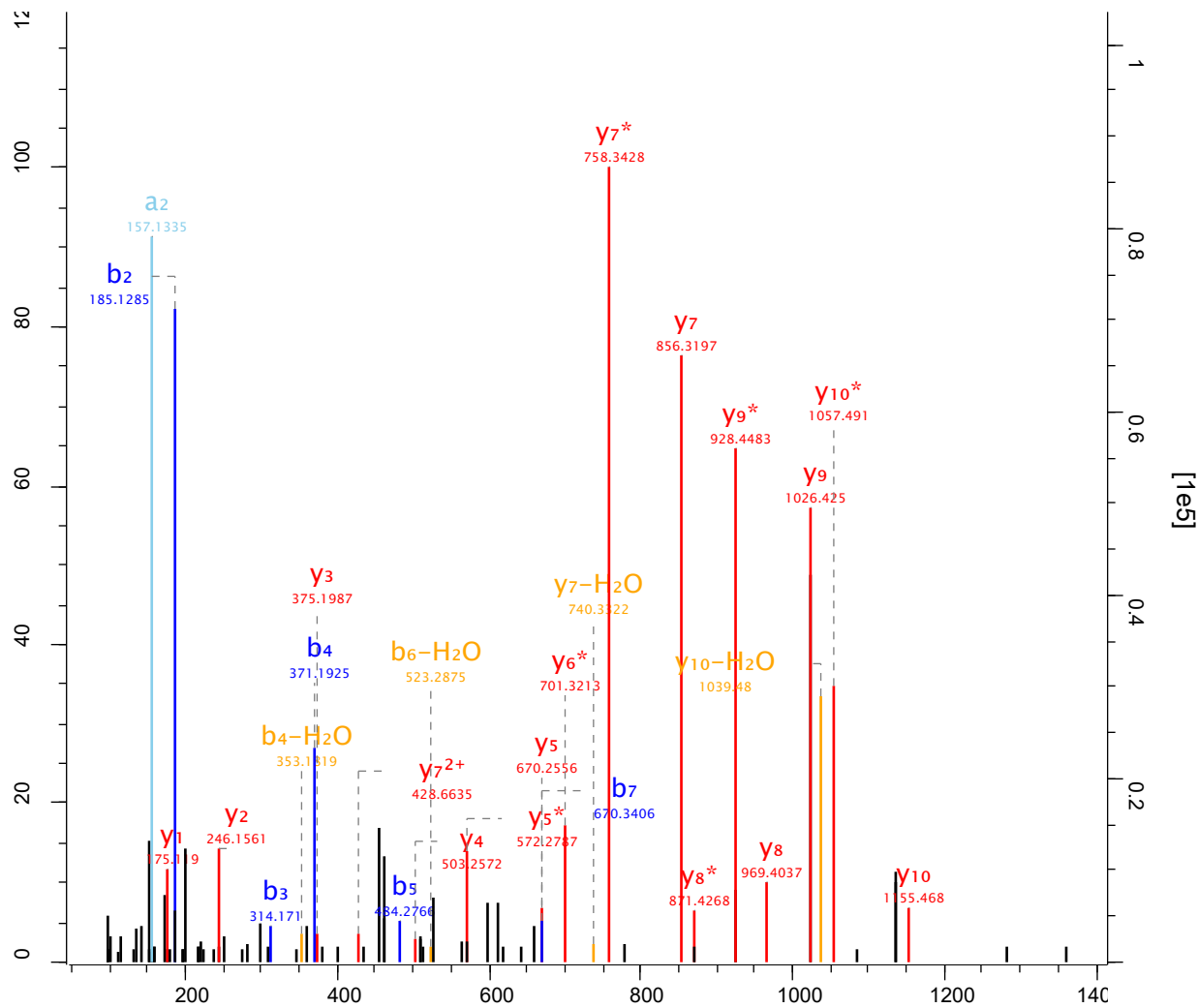




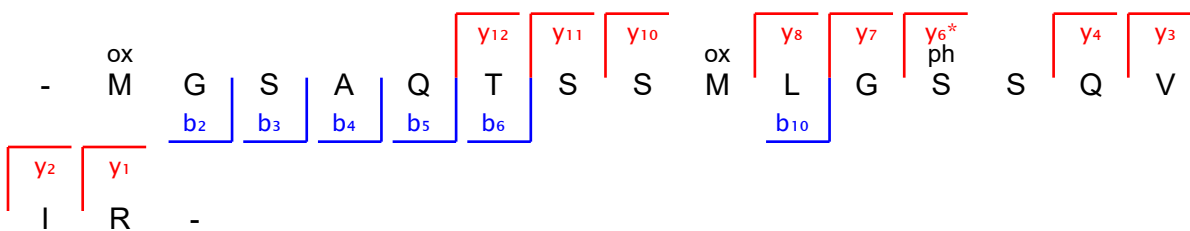
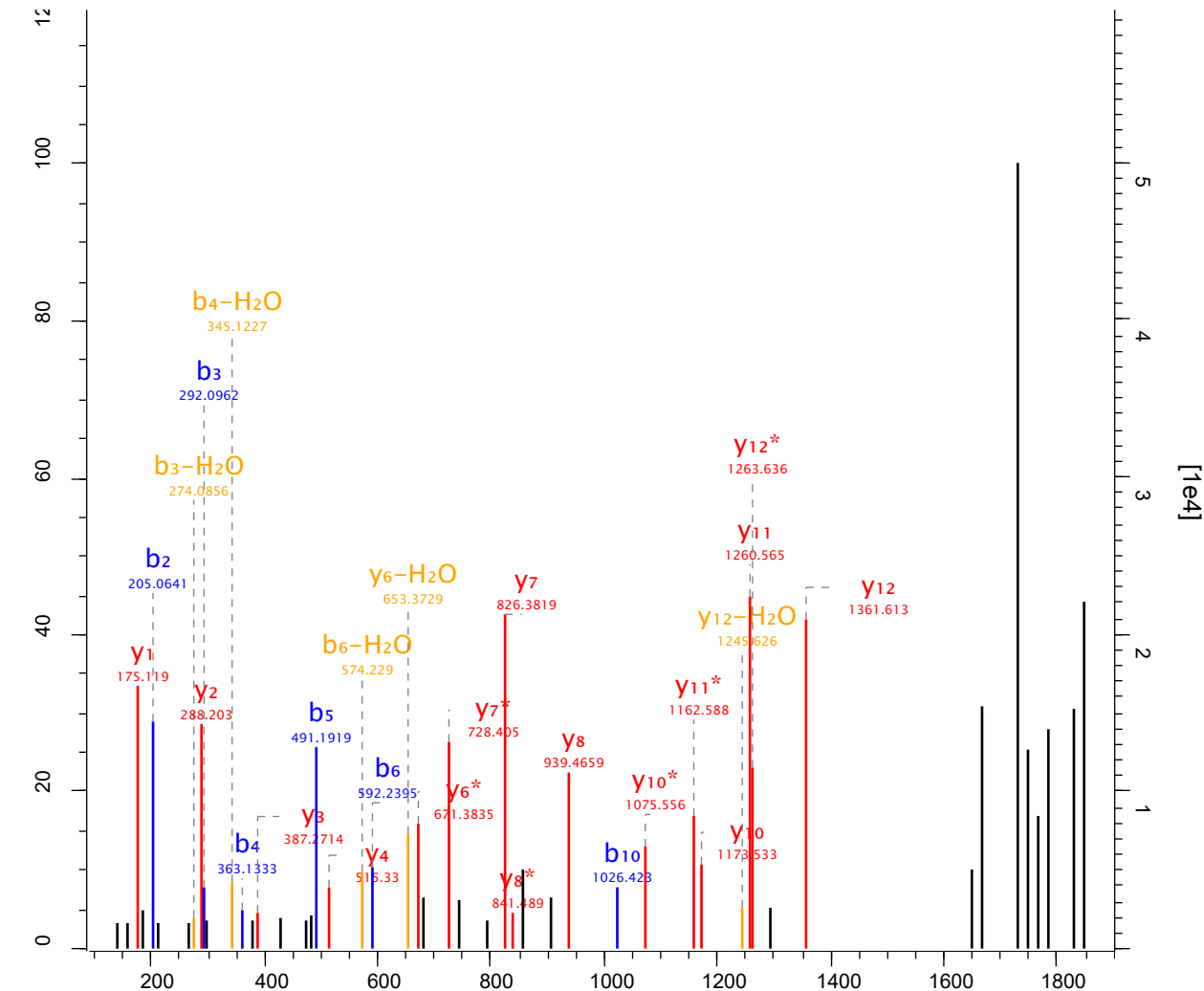
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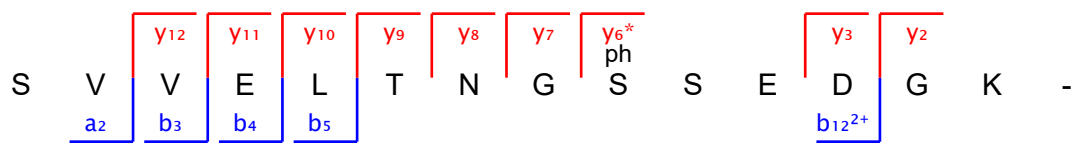
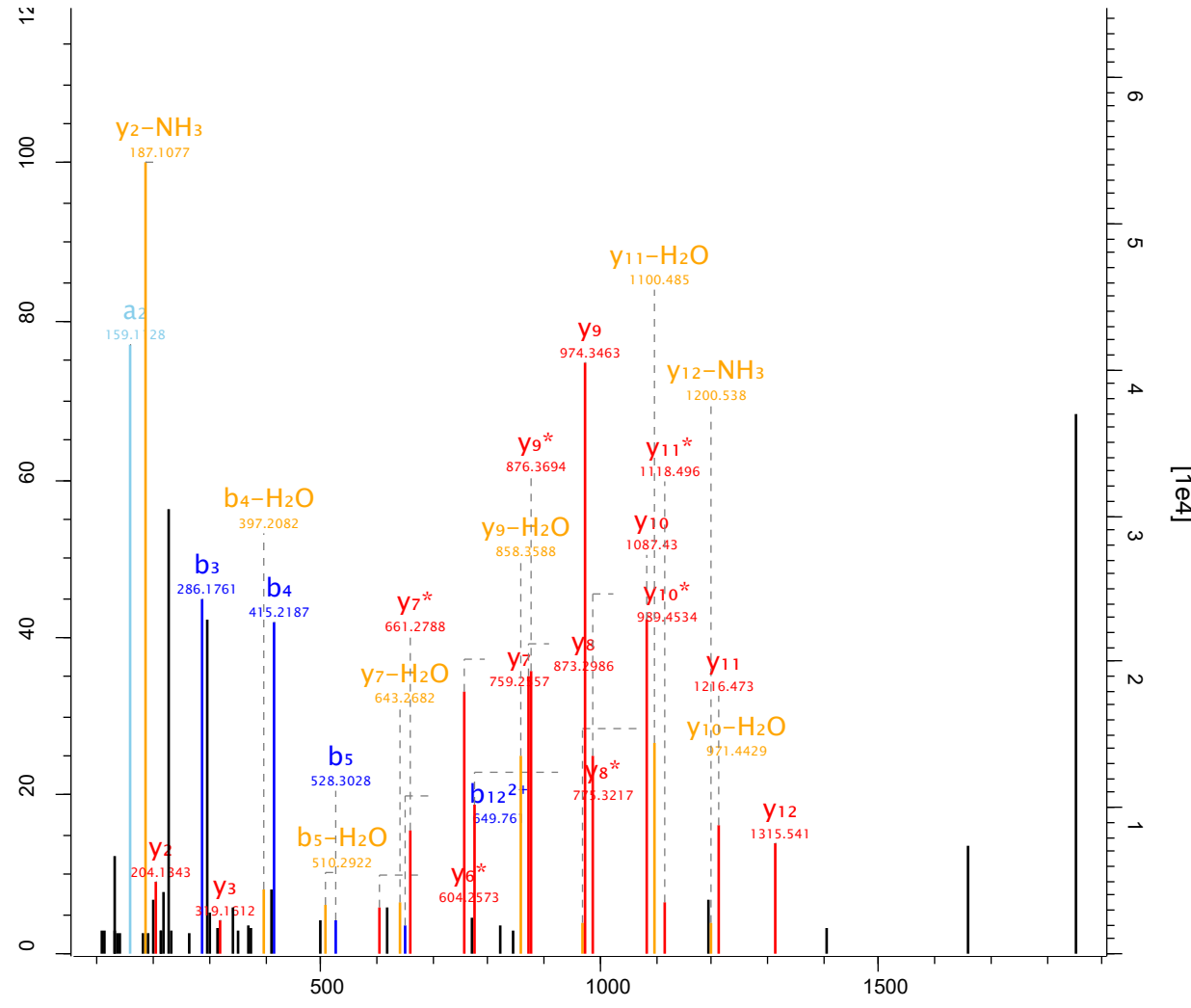
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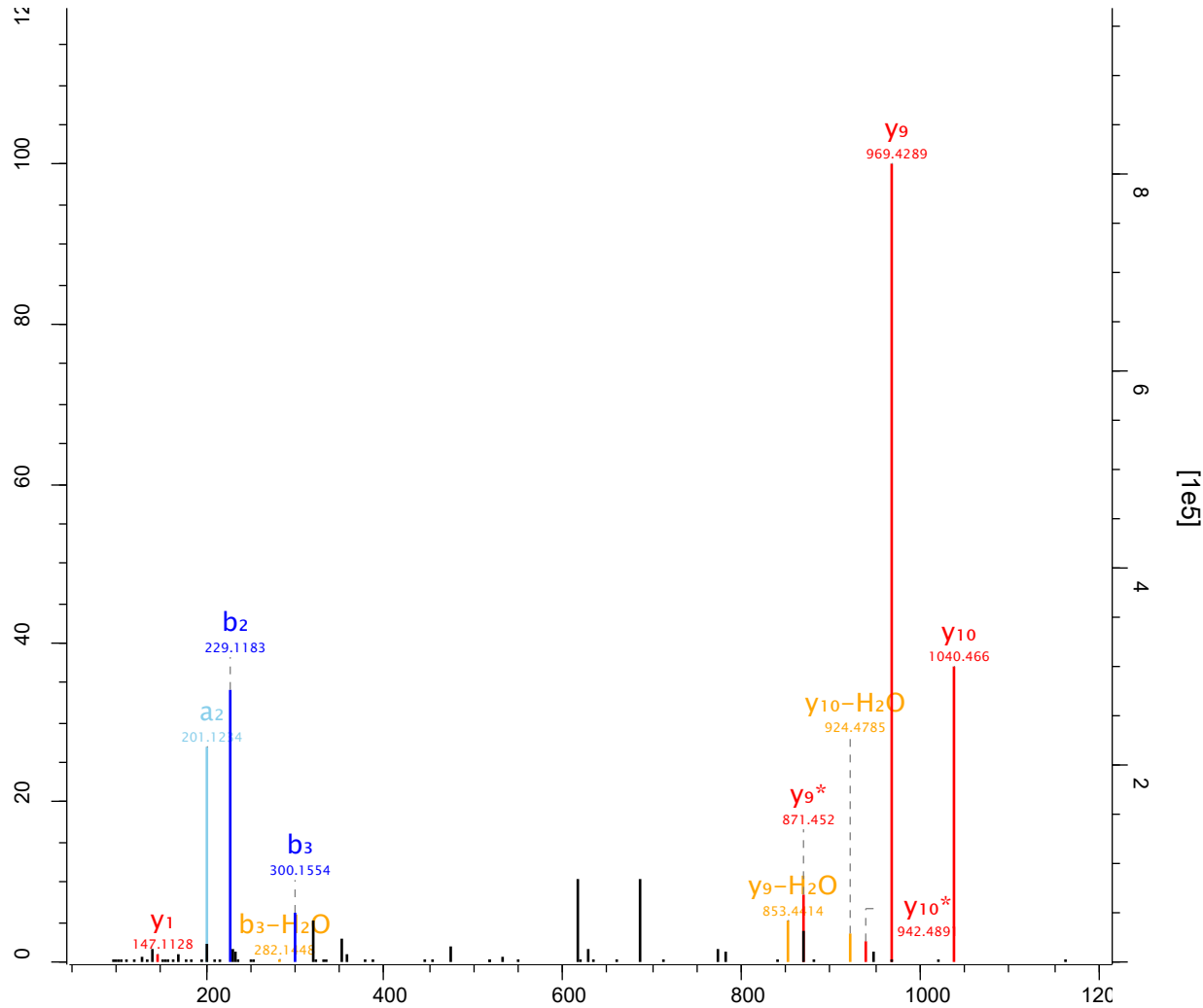
Raw file Scan Method Score m/z  
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Raw file sys\_15\_1      Method FTMS; HCD      Score 162.59      m/z 751.33



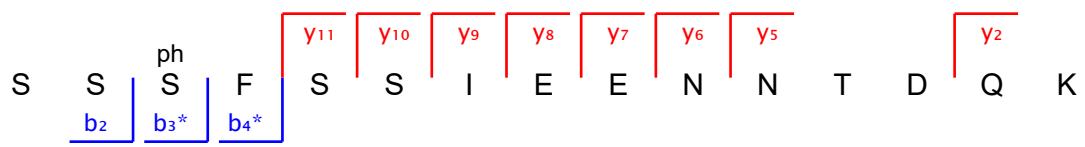
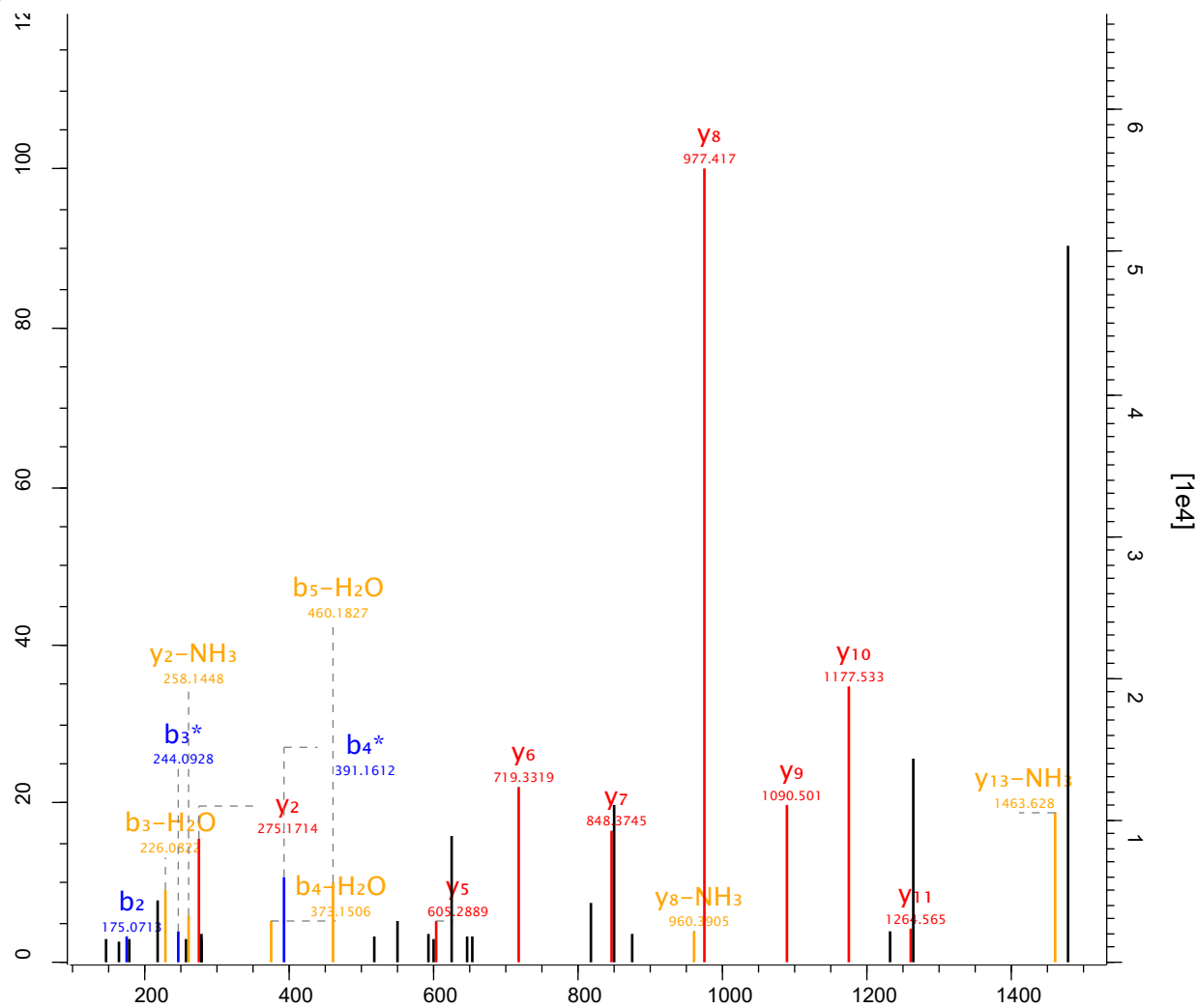
Raw file Scan Method Score m/z  
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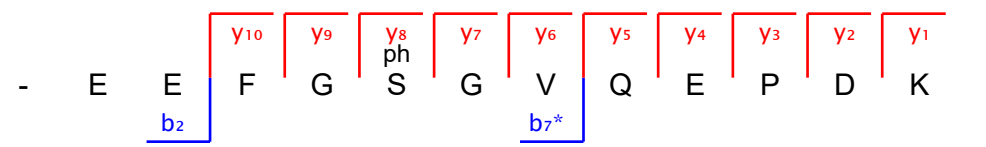
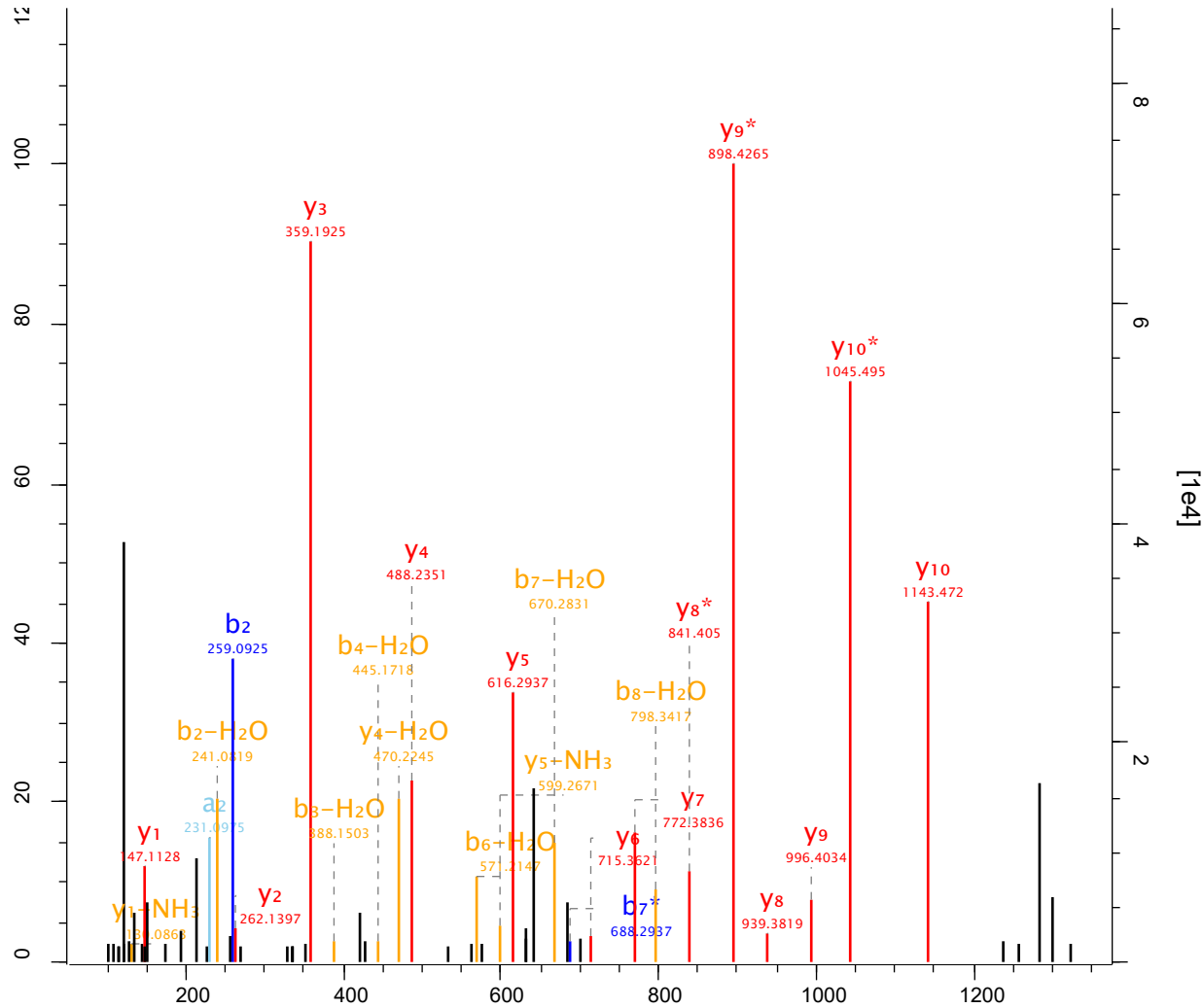
- V E A V ph T E G A E G V K -

Annotations: b2 (under E), b3 (under A), y10 (over A), y9 (over V), y1 (over K)

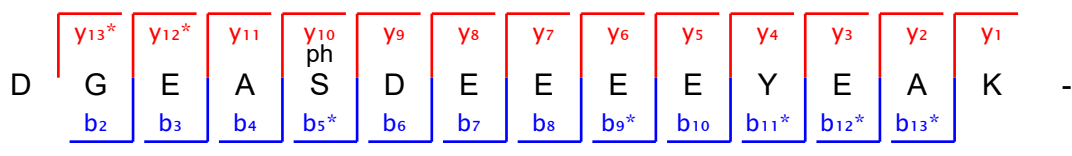
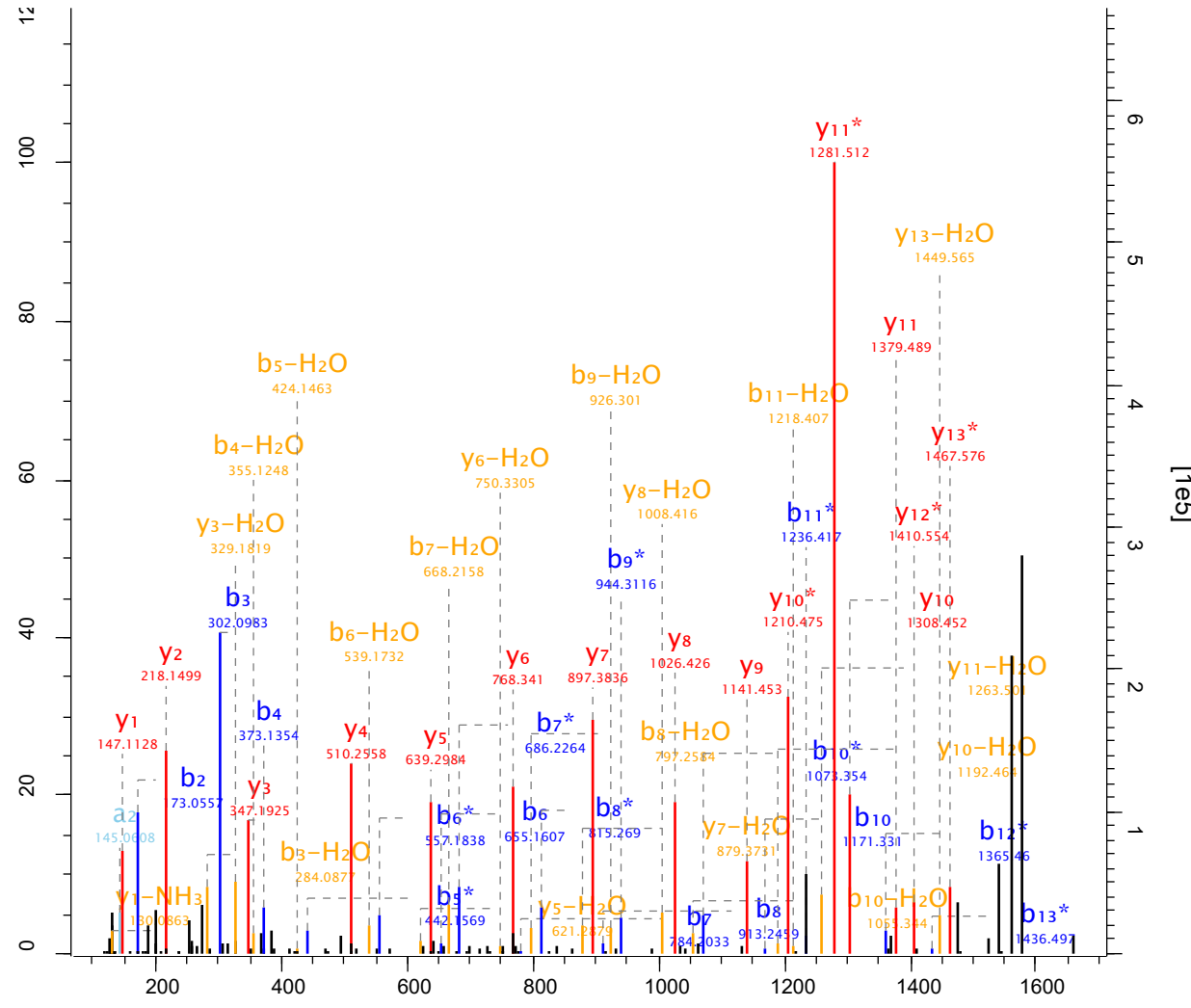
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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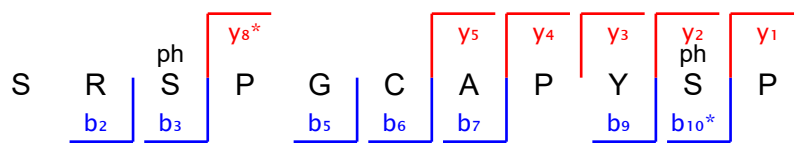
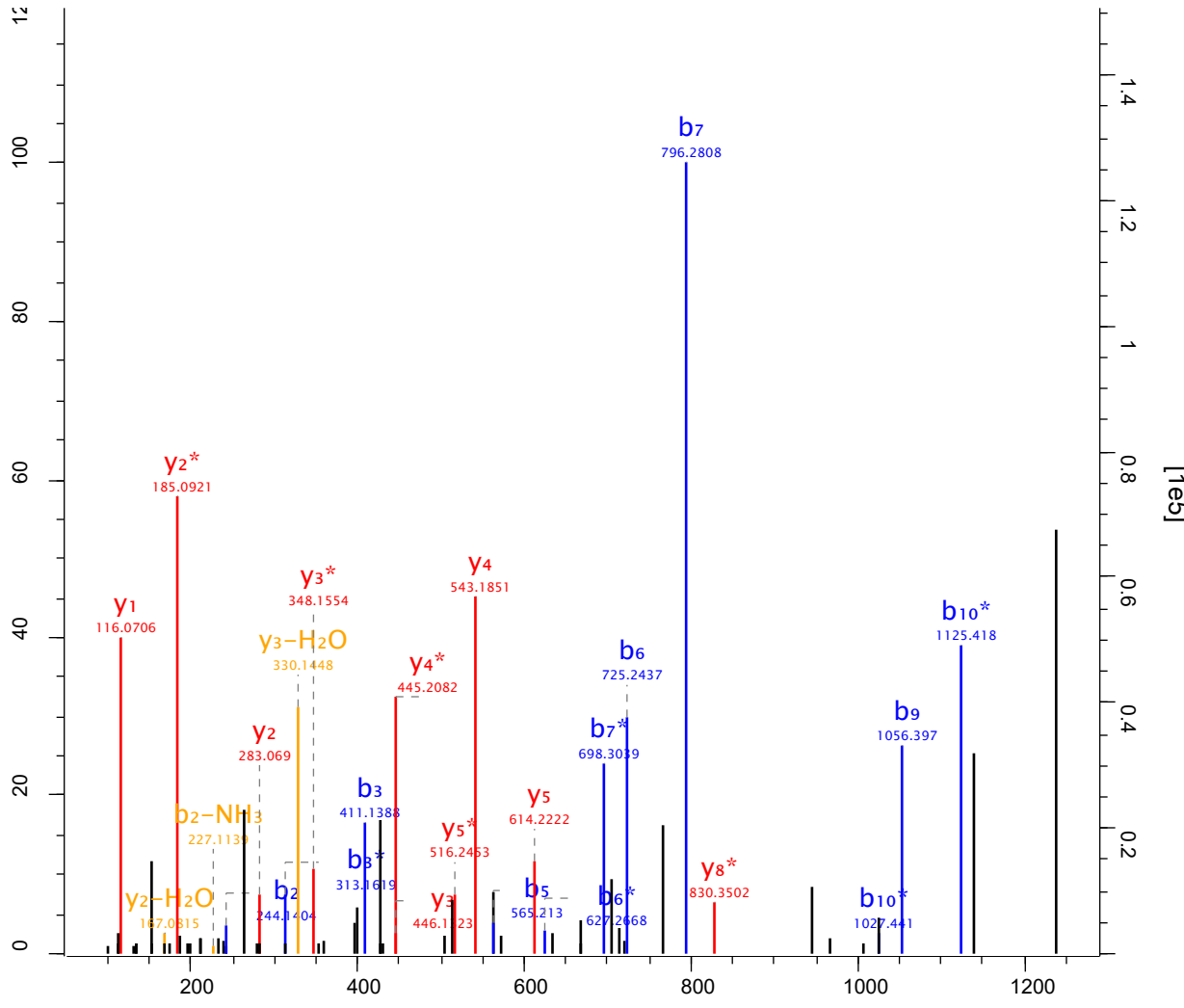


Raw file Scan Method Score m/z  
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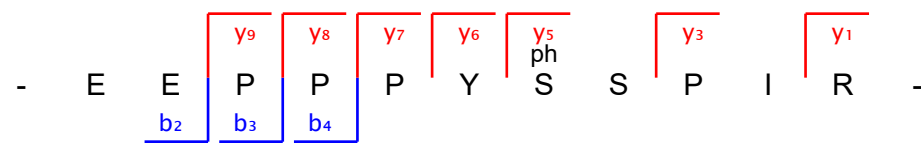
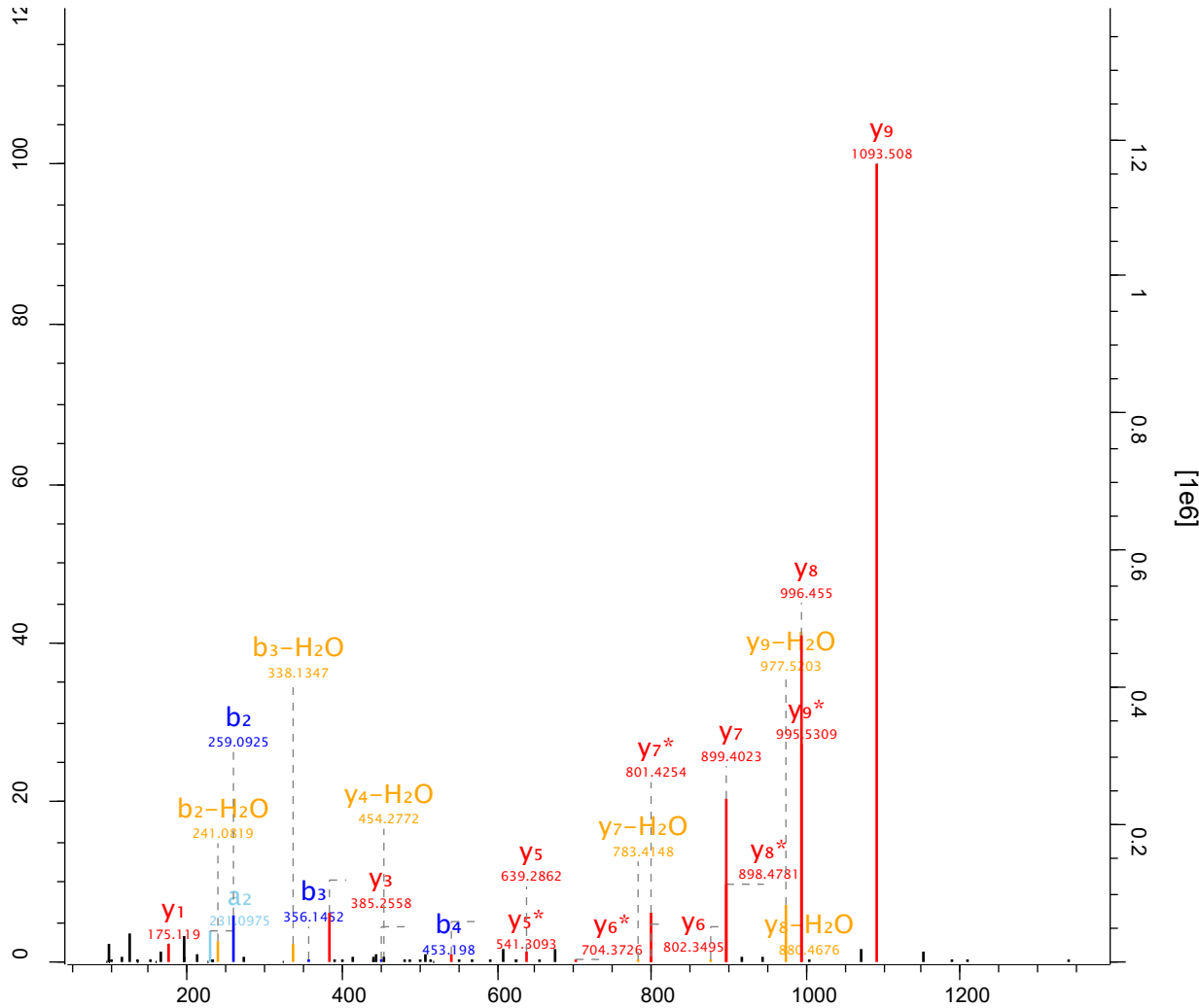




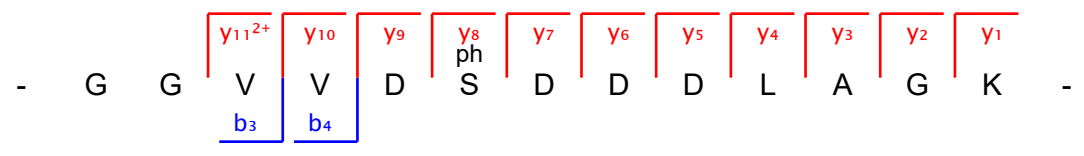
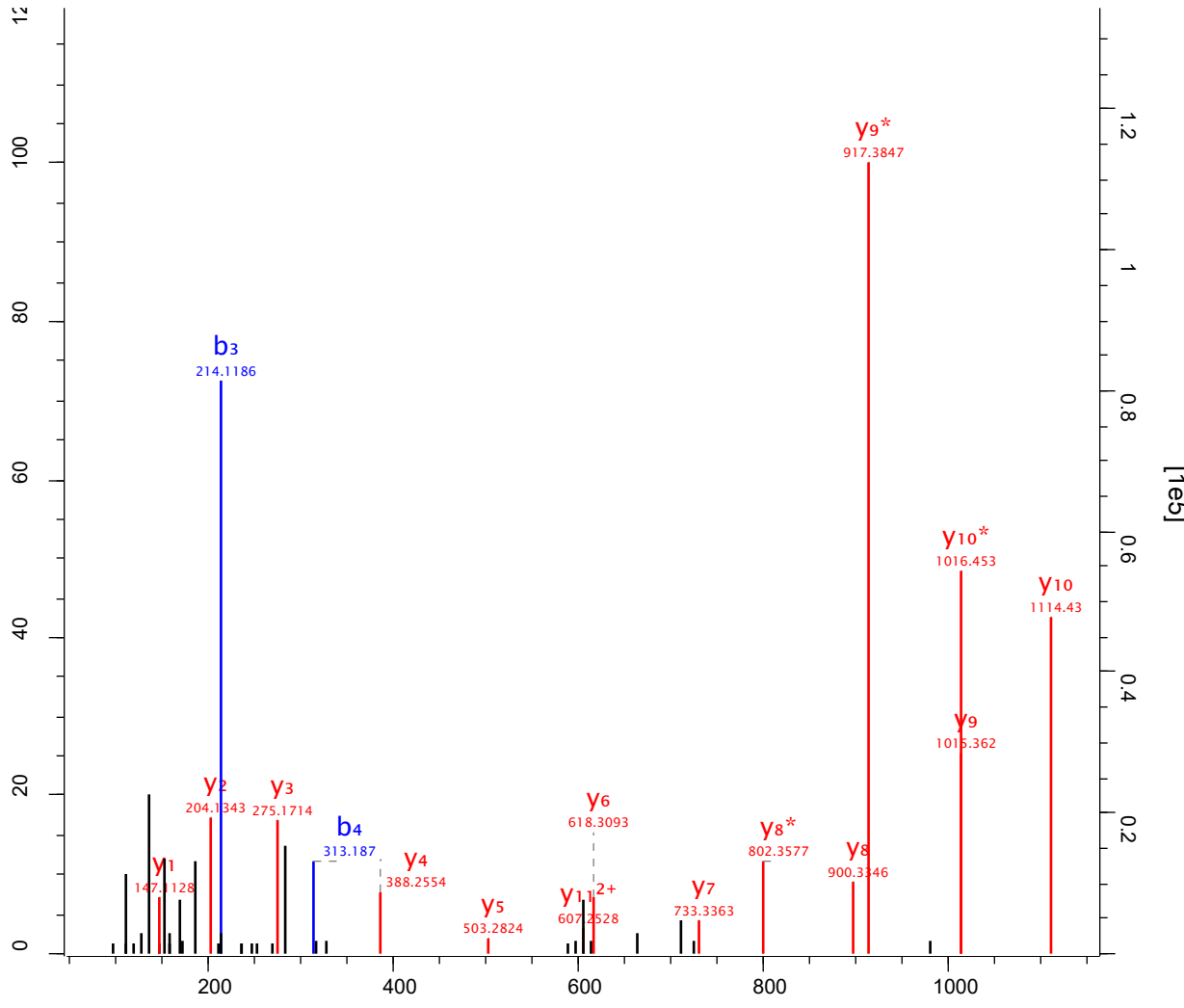
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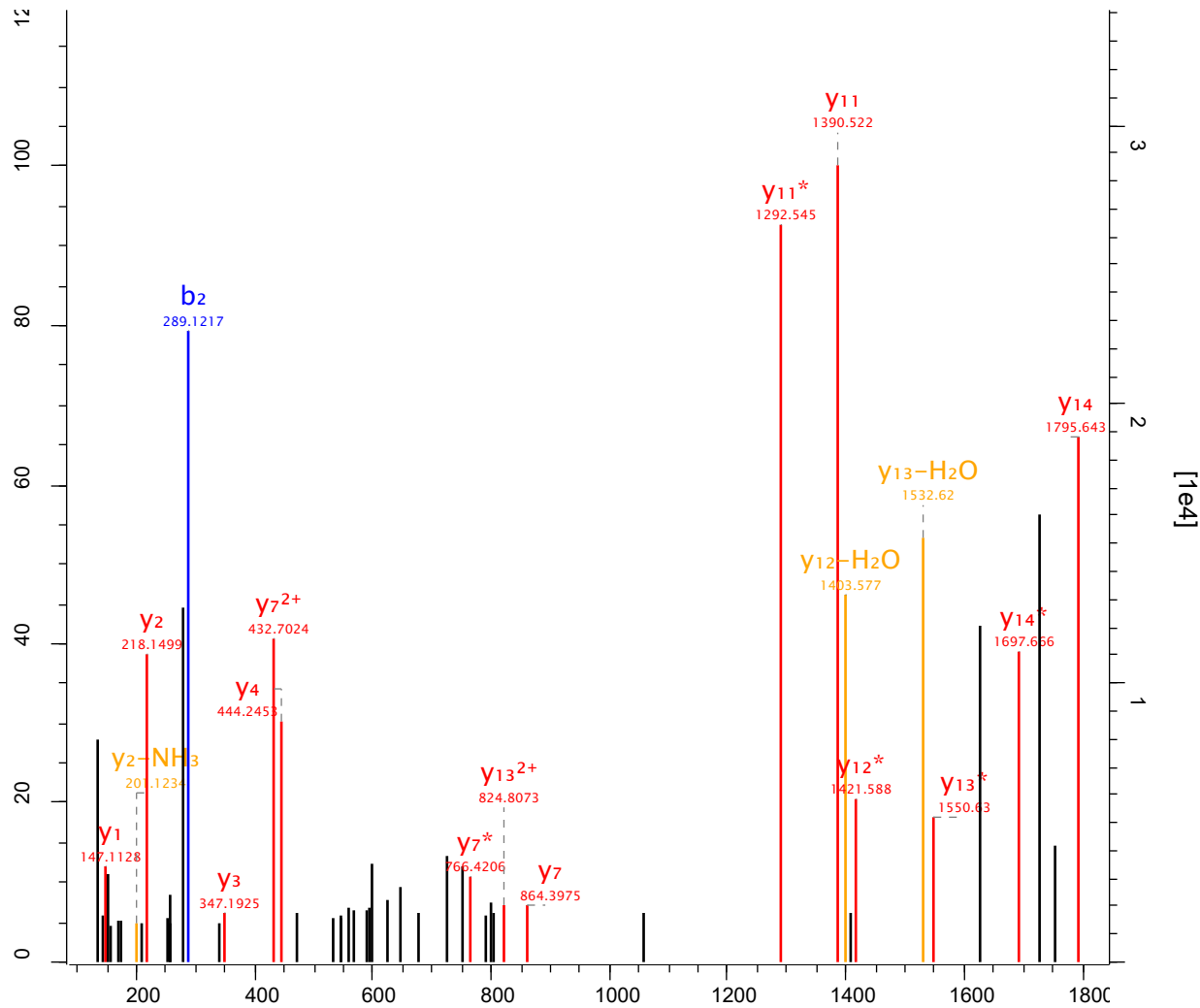
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Raw file Scan Method Score m/z  
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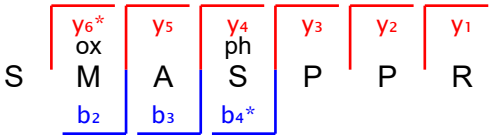
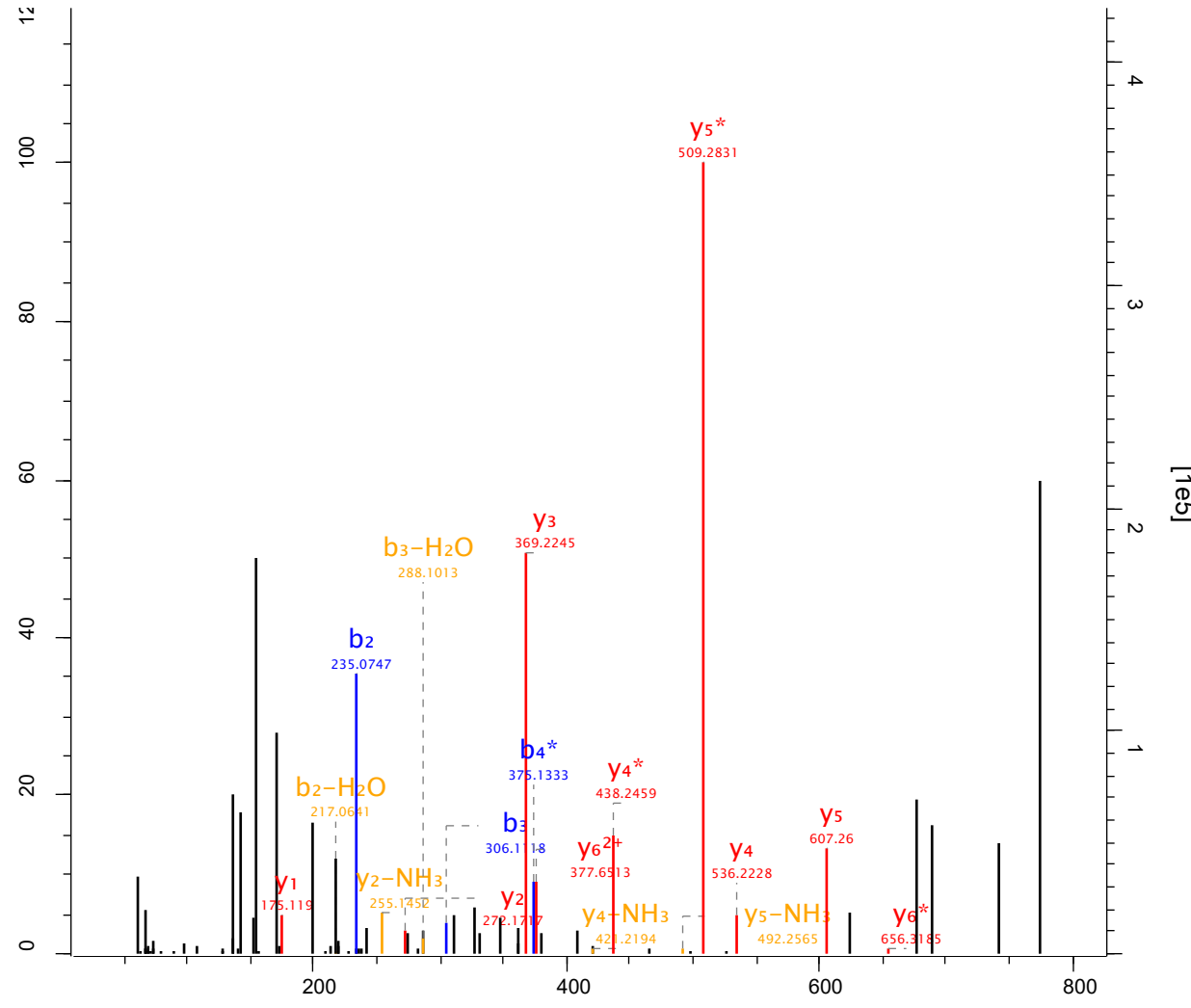
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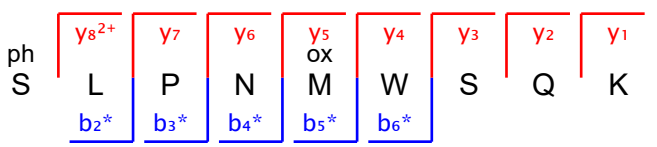
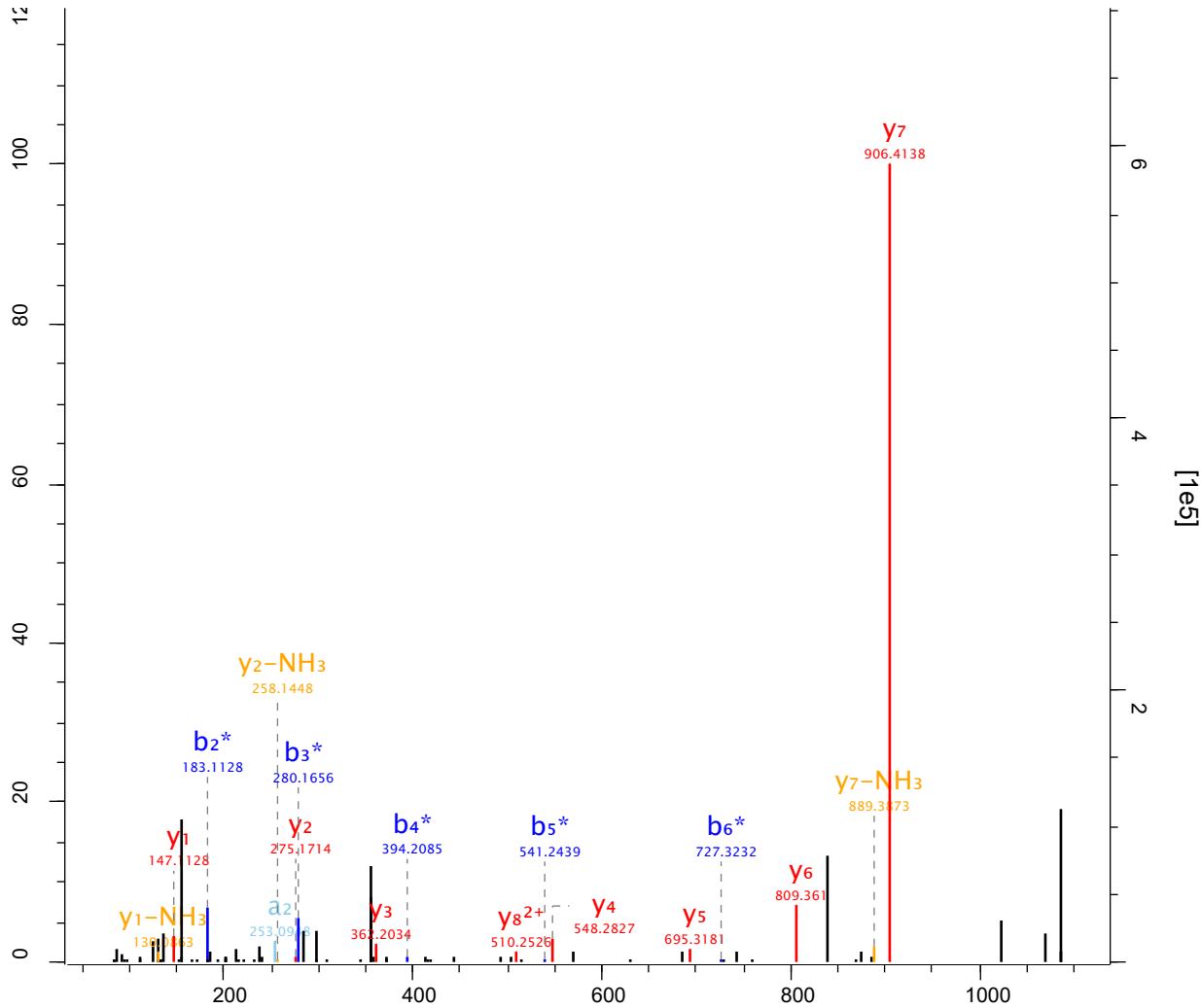
ac V M E E G C Q T P R S P E A K  
 -  
 -

Fragmentation labels: y<sub>14</sub>OX, y<sub>13</sub>\*, y<sub>12</sub>\*, y<sub>11</sub>, y<sub>7</sub>, y<sub>4</sub>, y<sub>3</sub>, y<sub>2</sub>, y<sub>1</sub>, b<sub>2</sub>

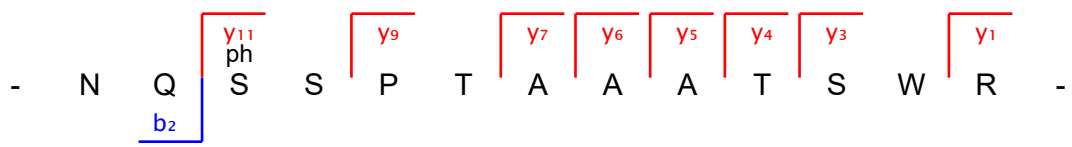
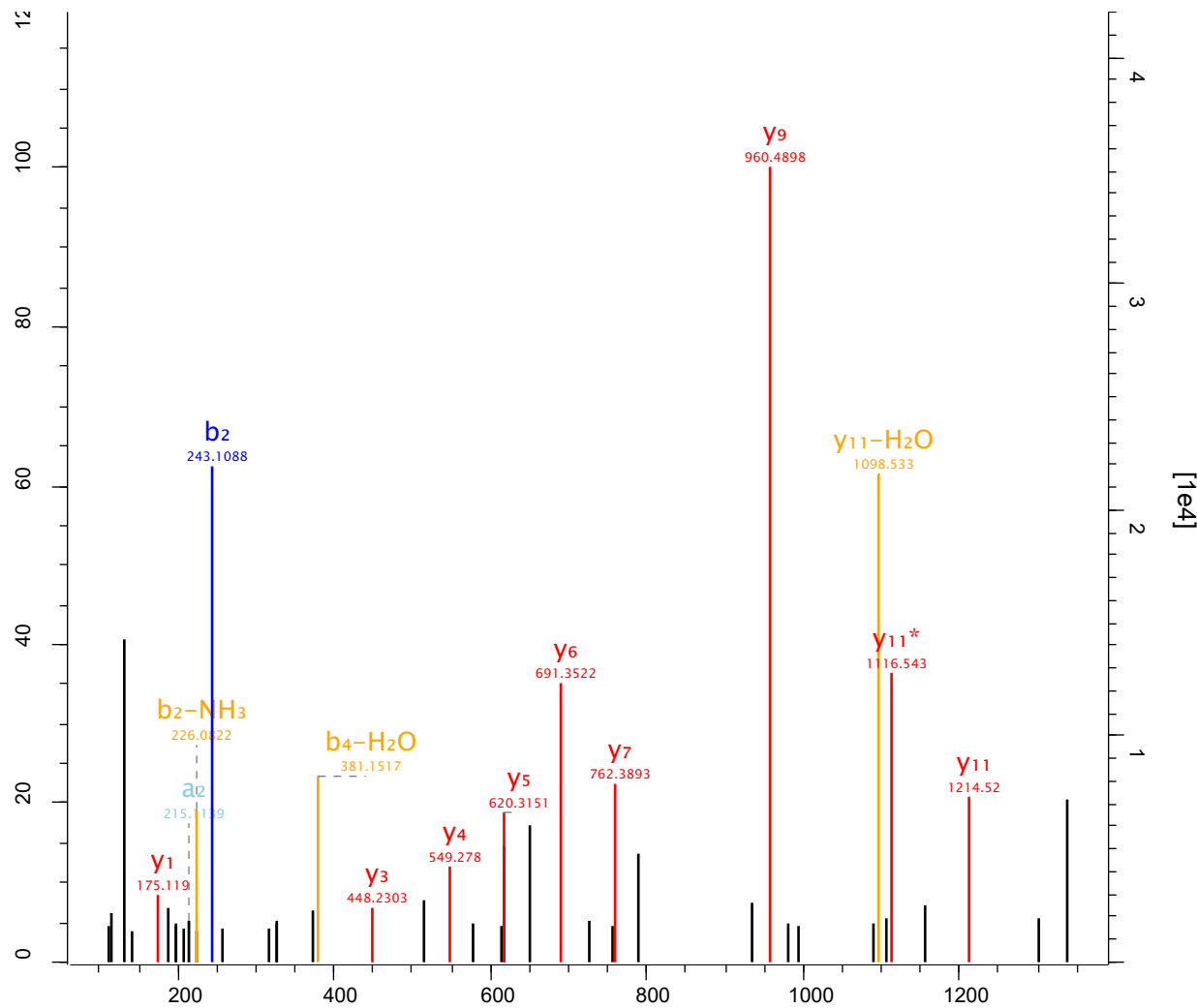
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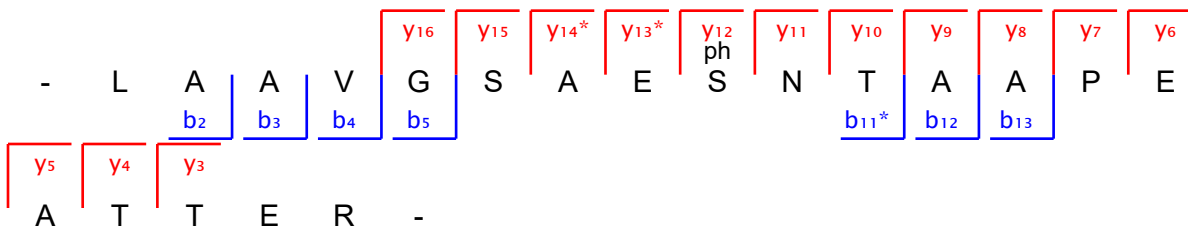
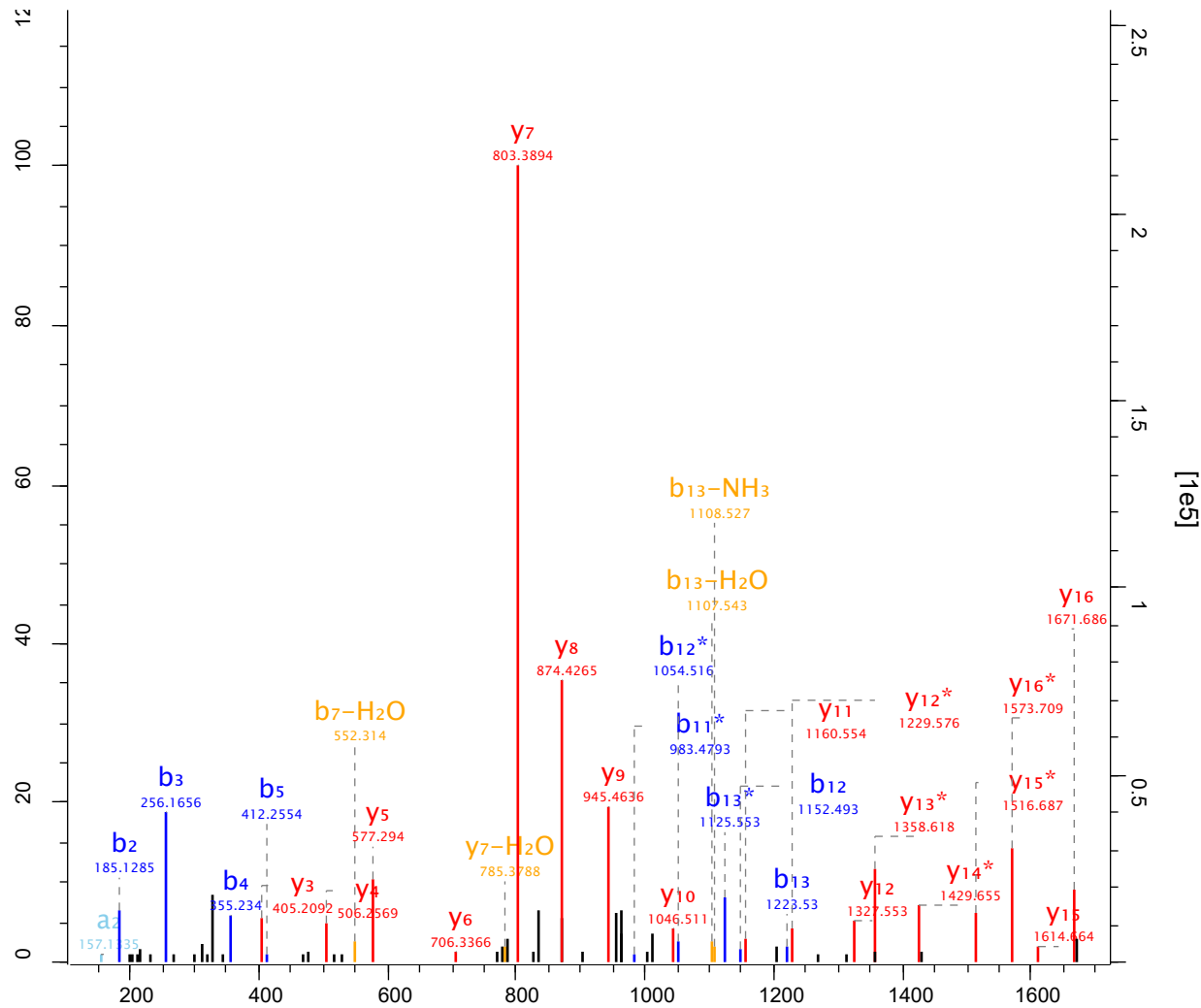
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Raw file Scan Method Score m/z  
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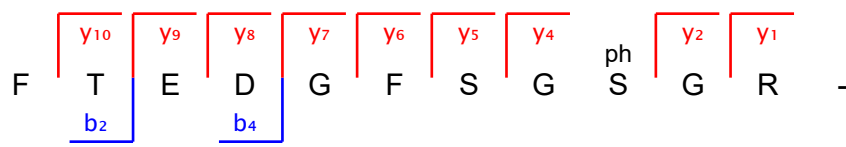
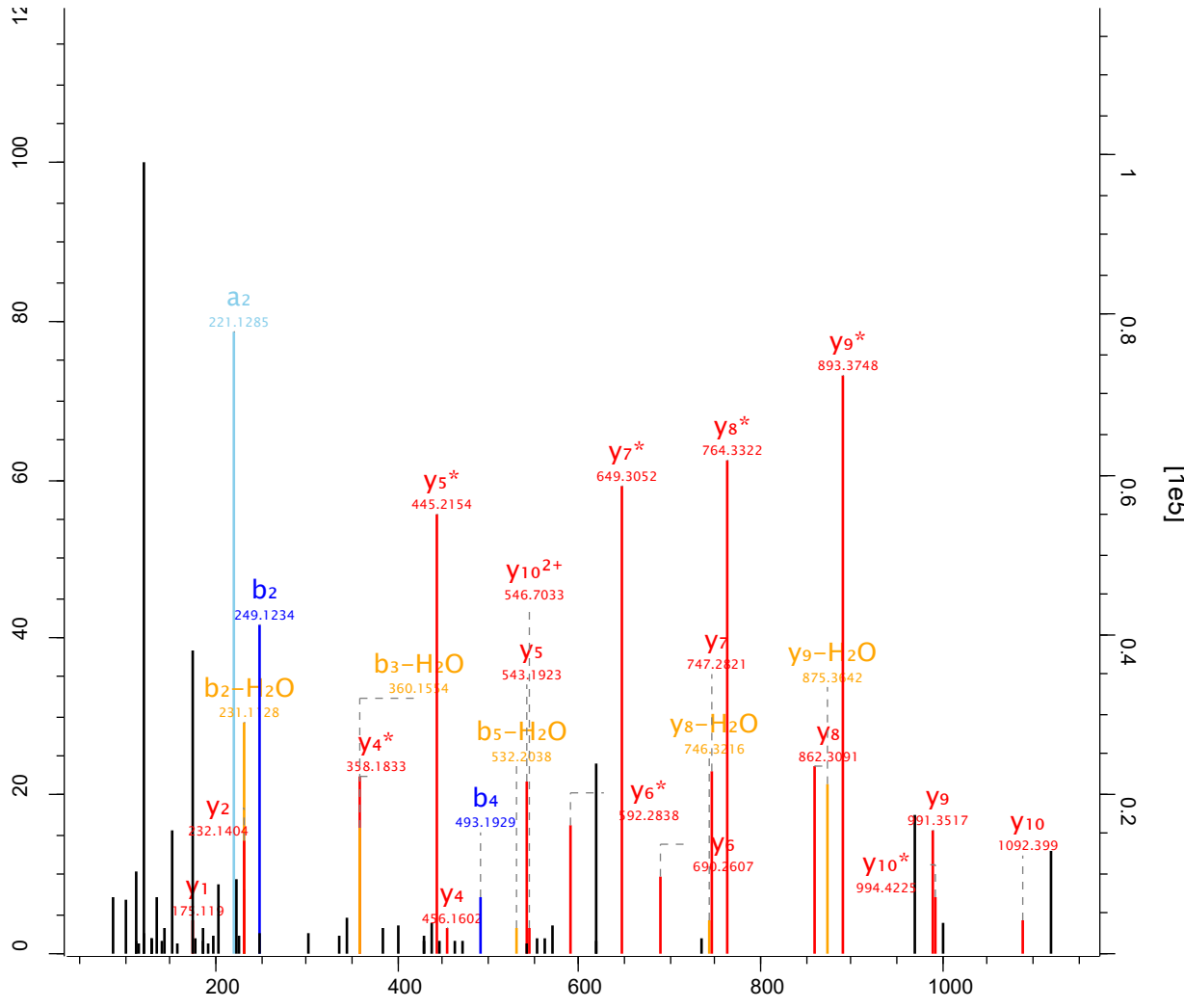


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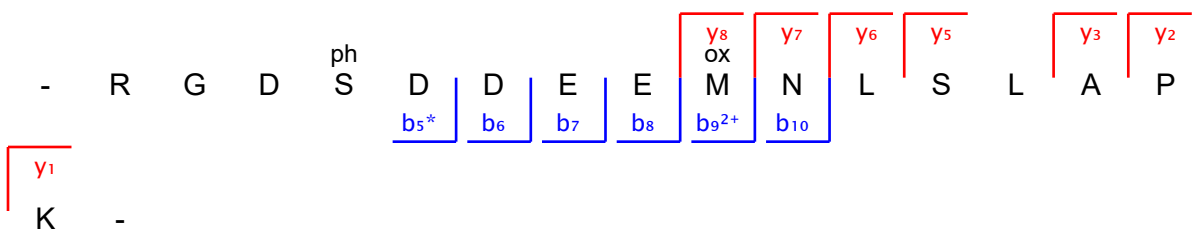
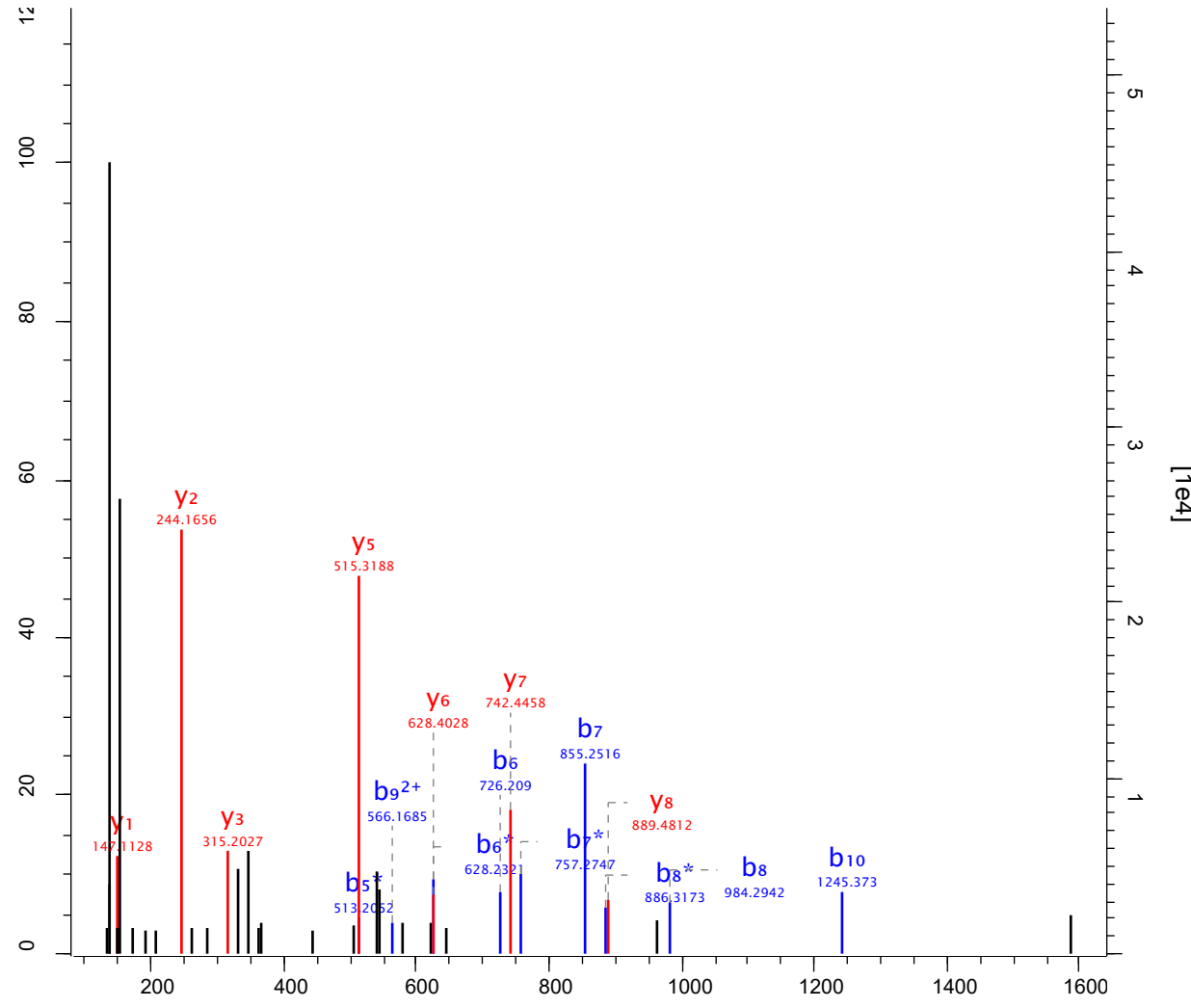




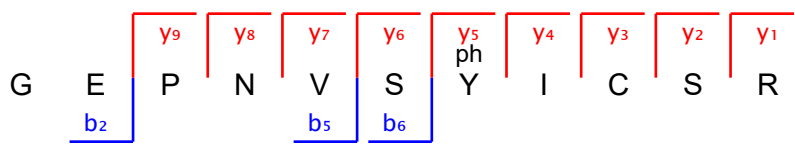
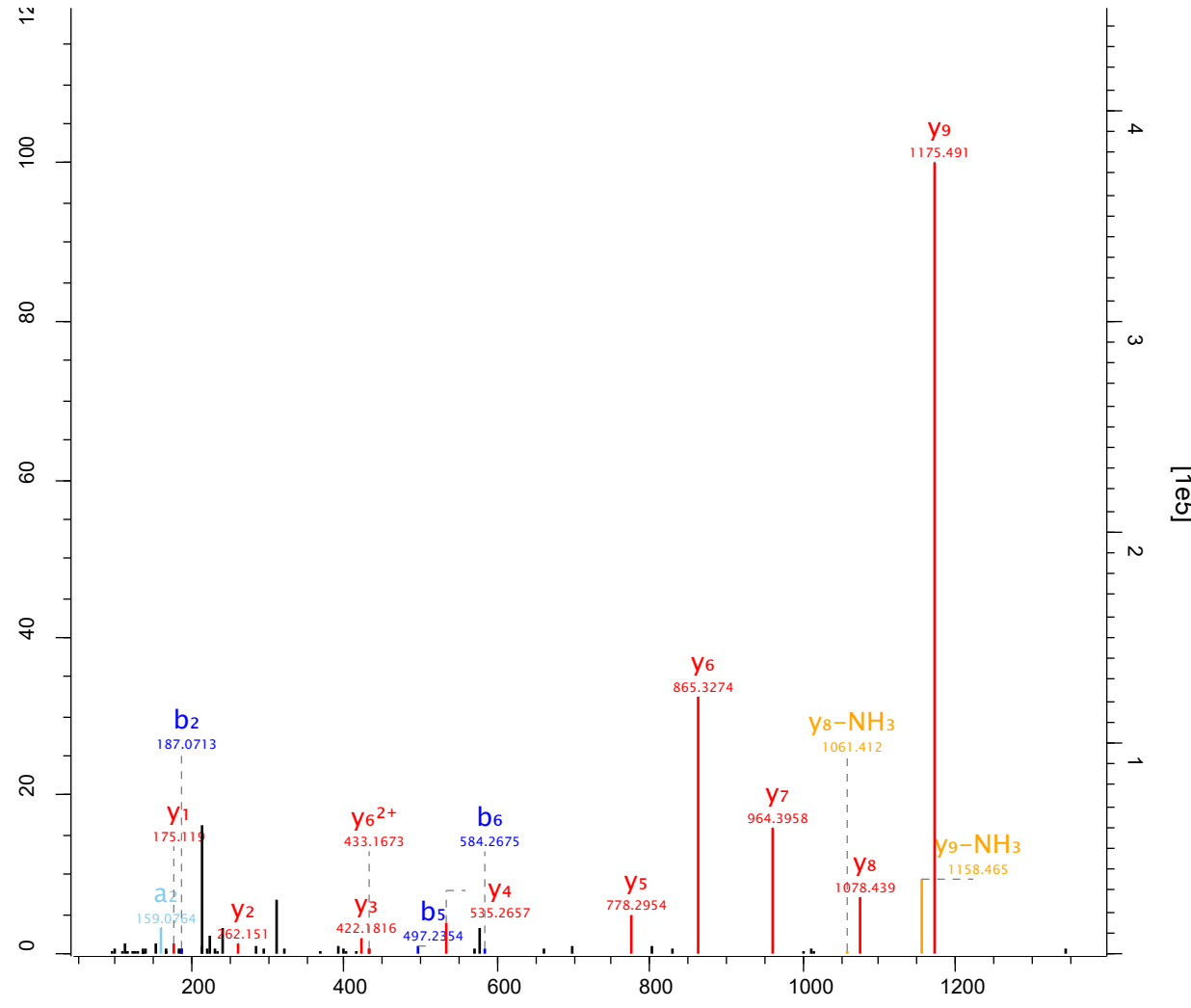
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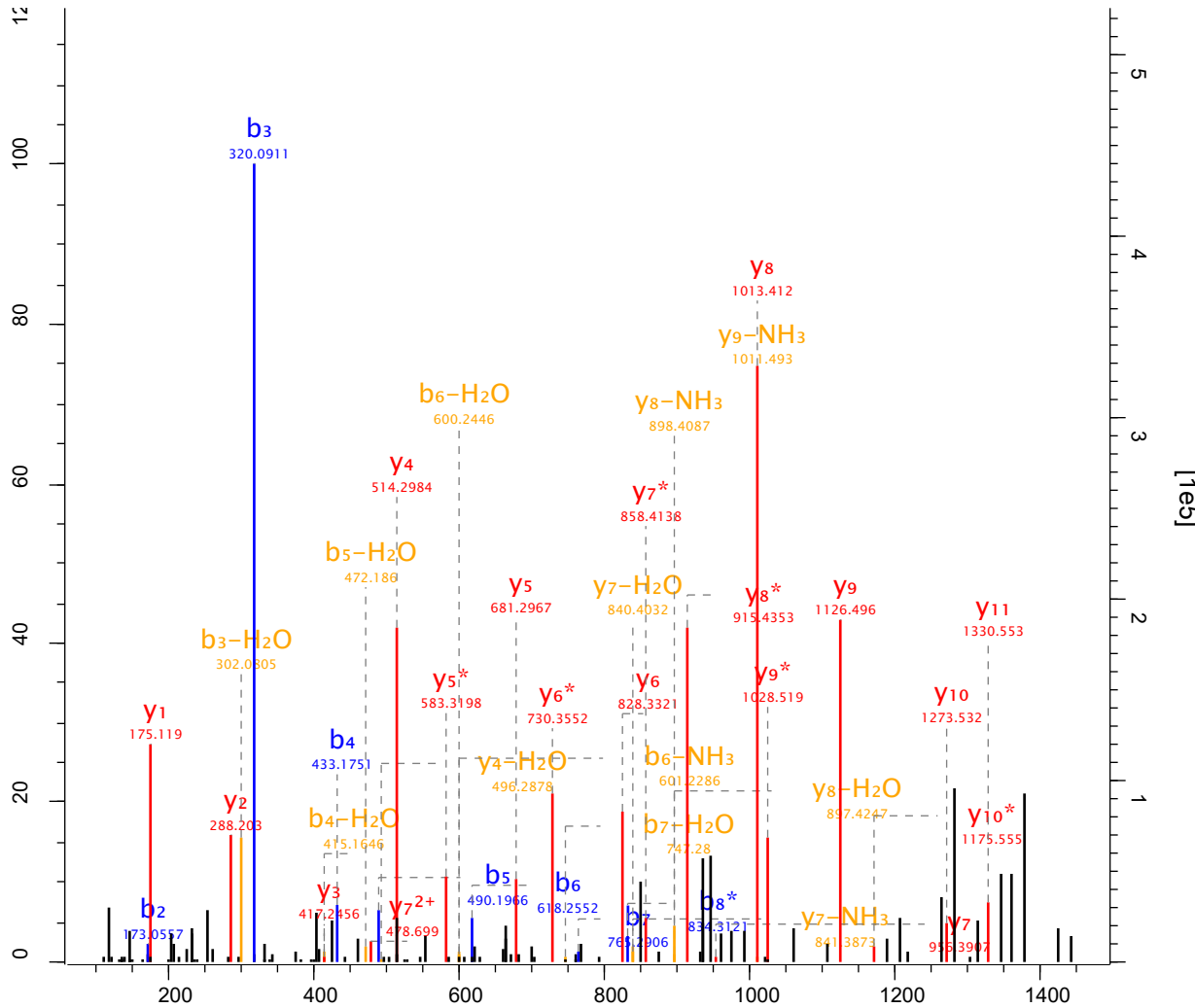


Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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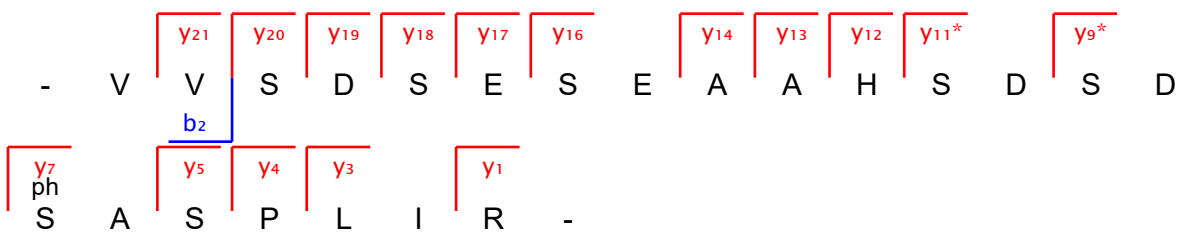
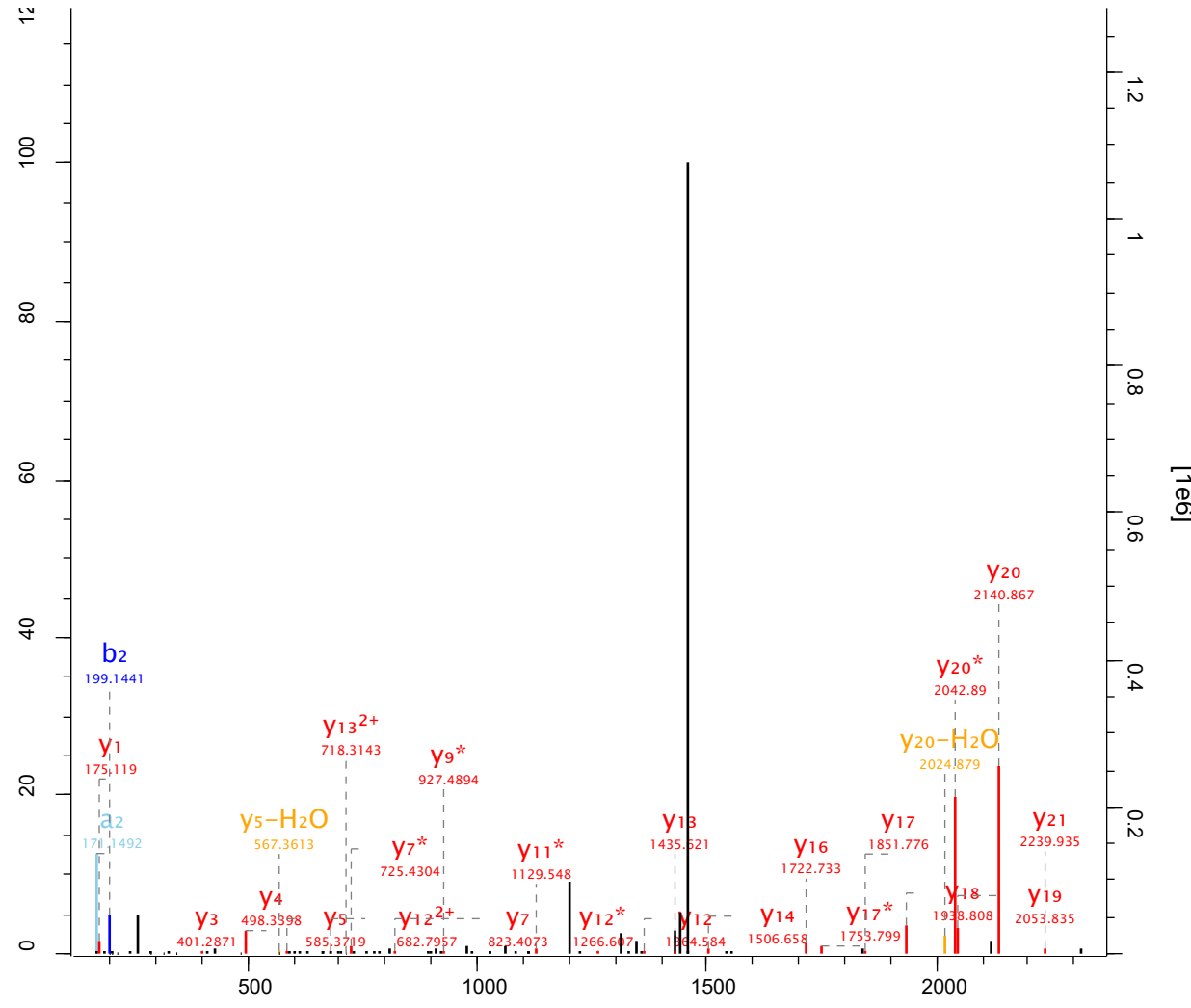


- D G M L G Q M S P E I R -

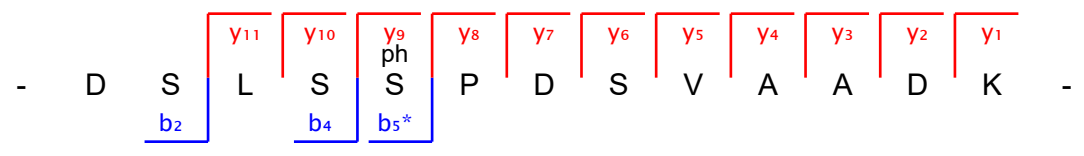
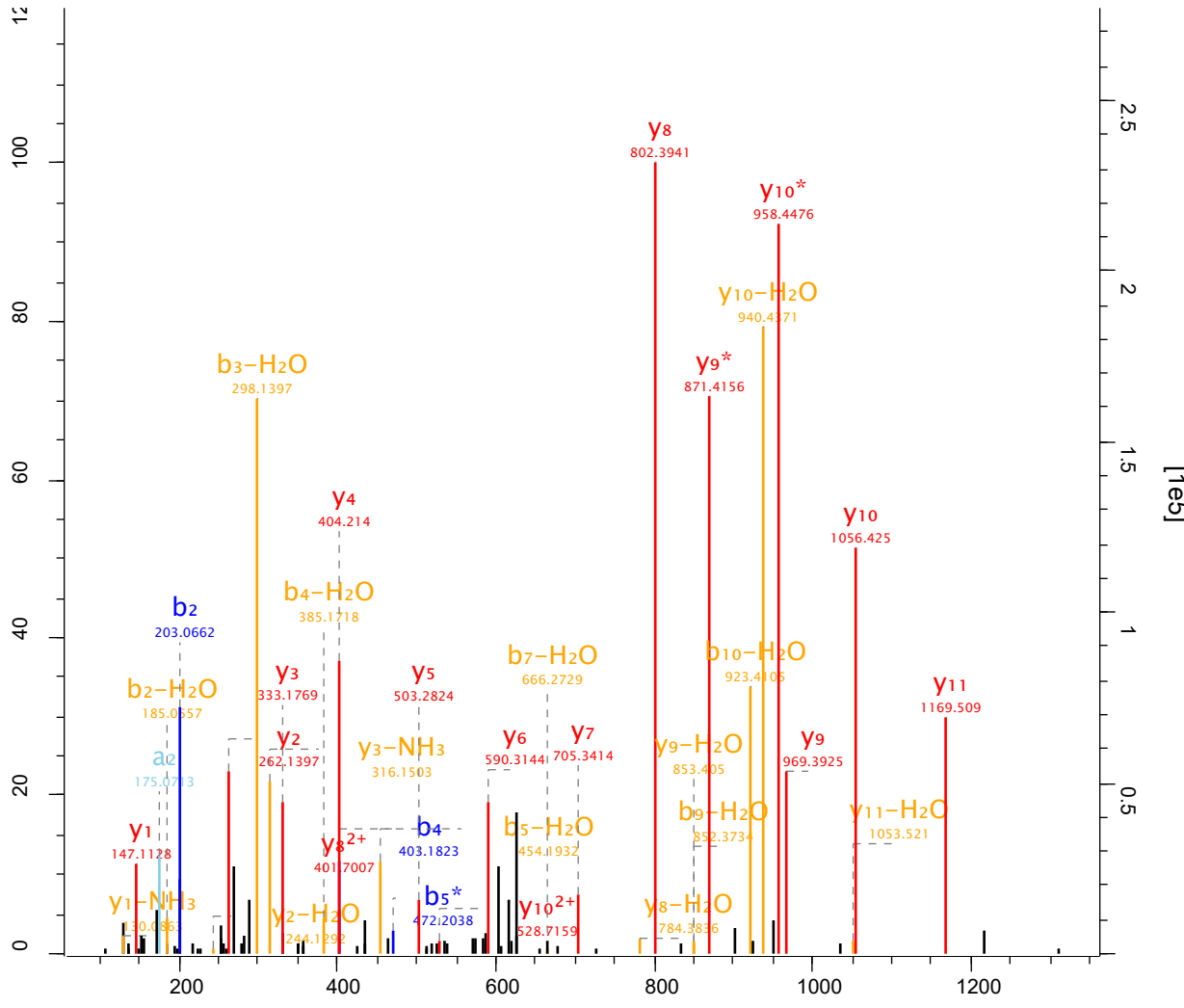
b2 b3 b4 b5 b6 b7 b8\*

y11 y10 ox y9 y8 y7 y6 ox y5 ph y4 y3 y2 y1

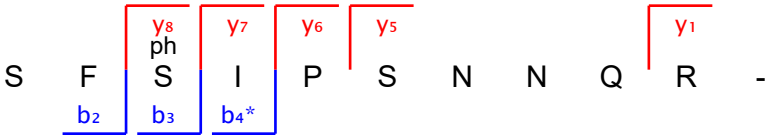
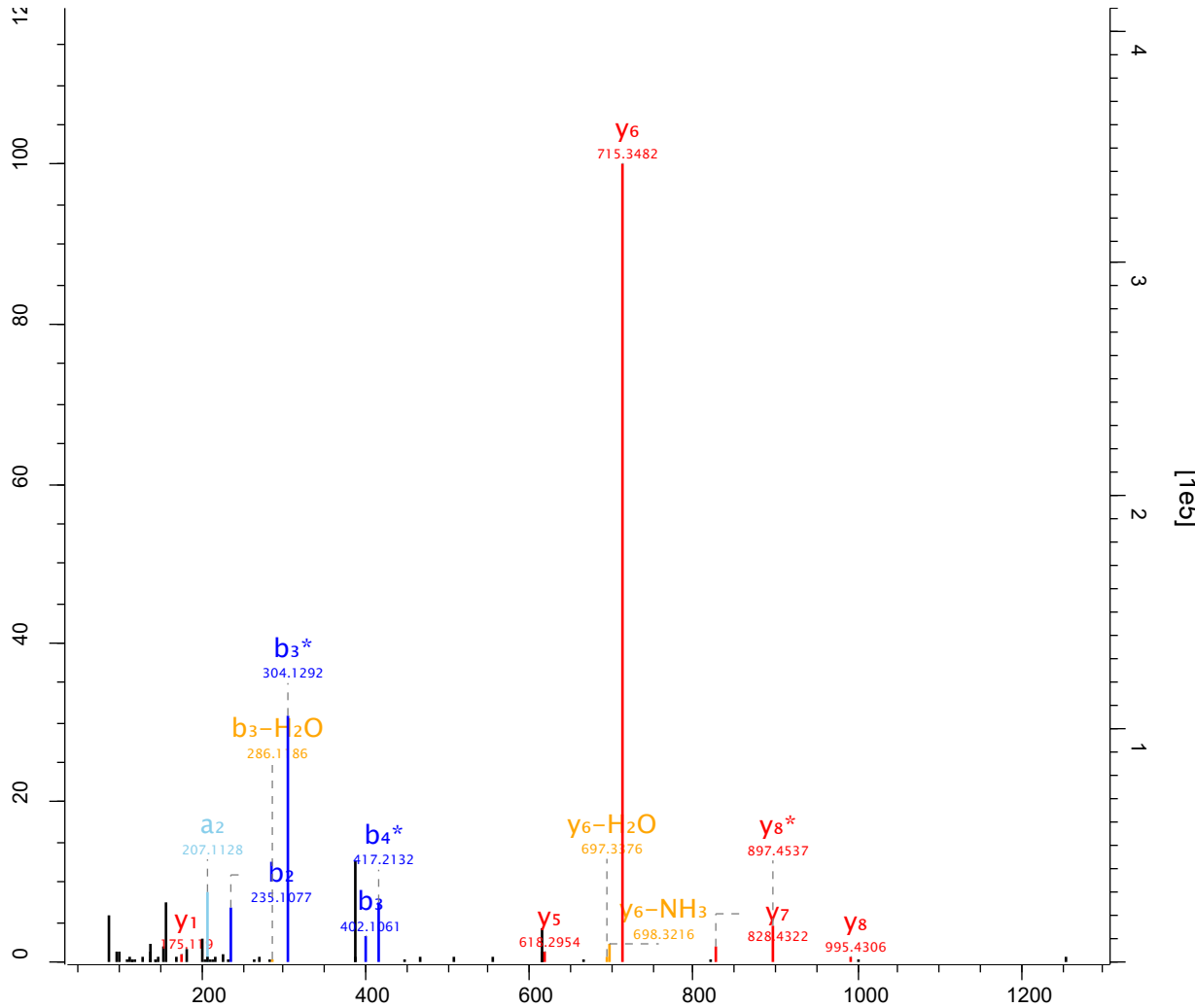
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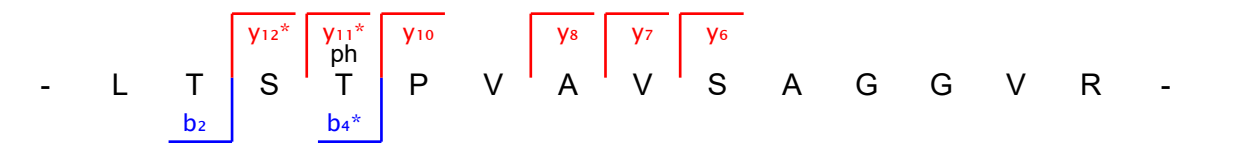
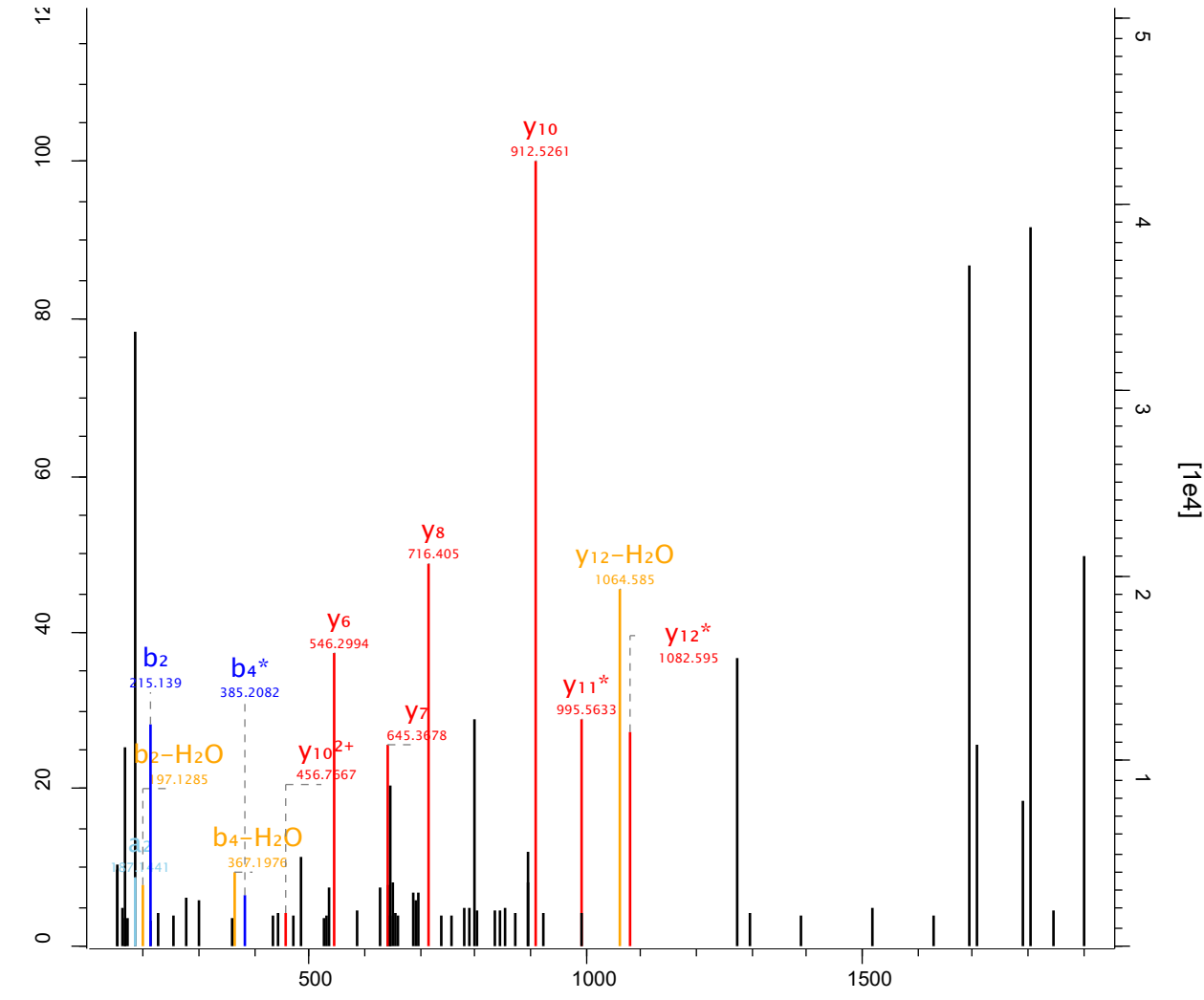
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Raw file Scan Method Score m/z  
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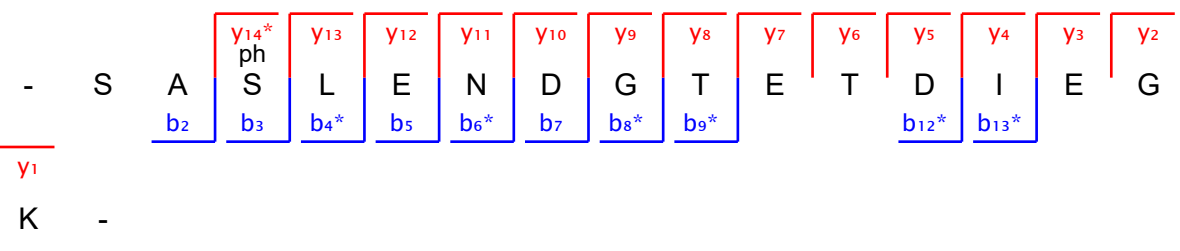
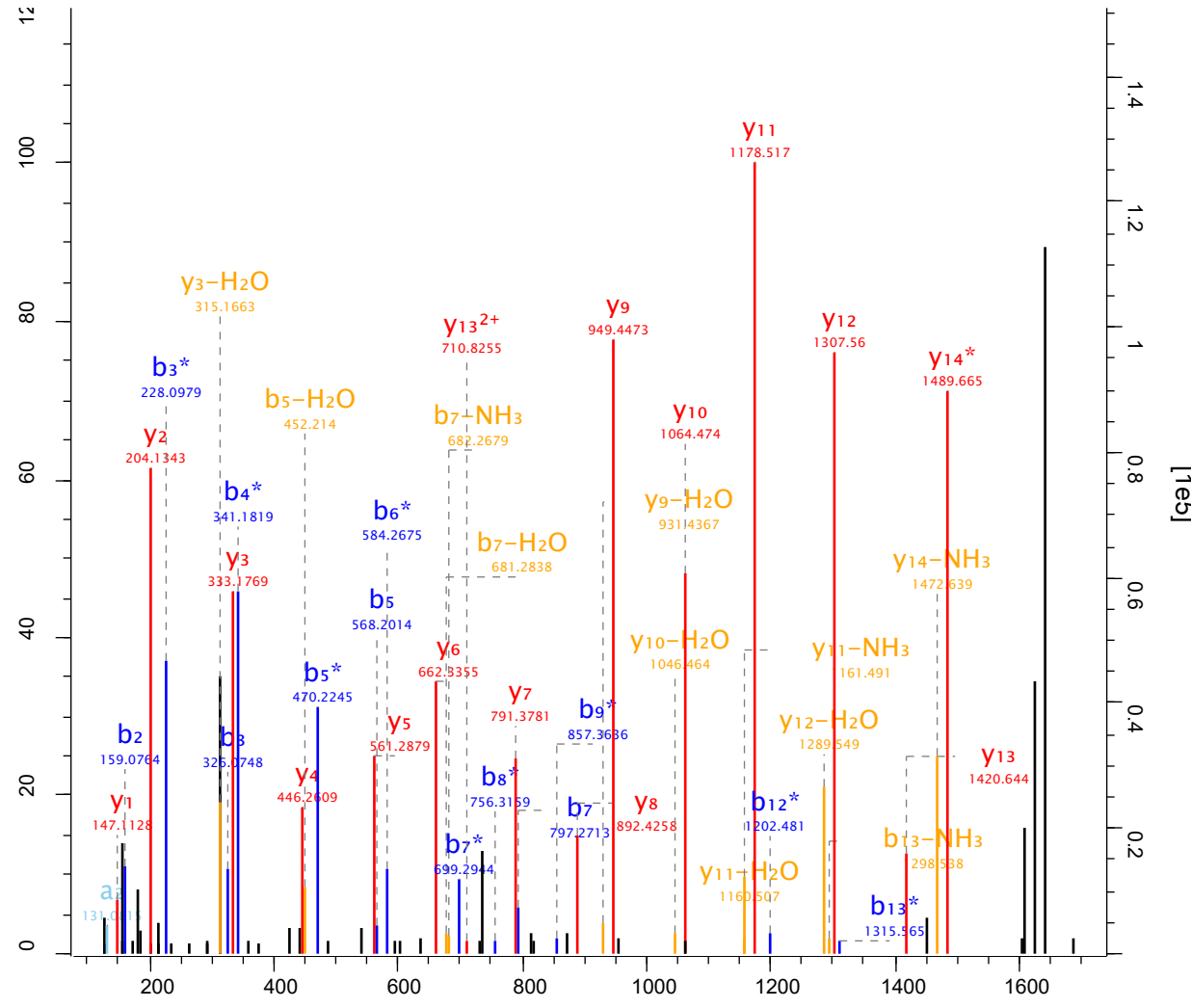


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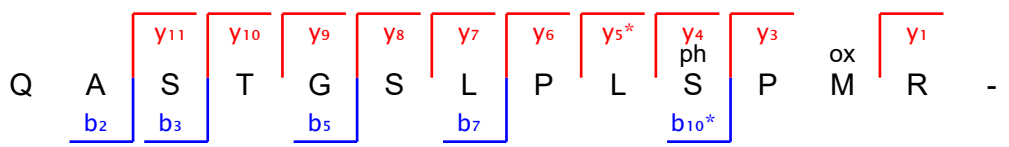
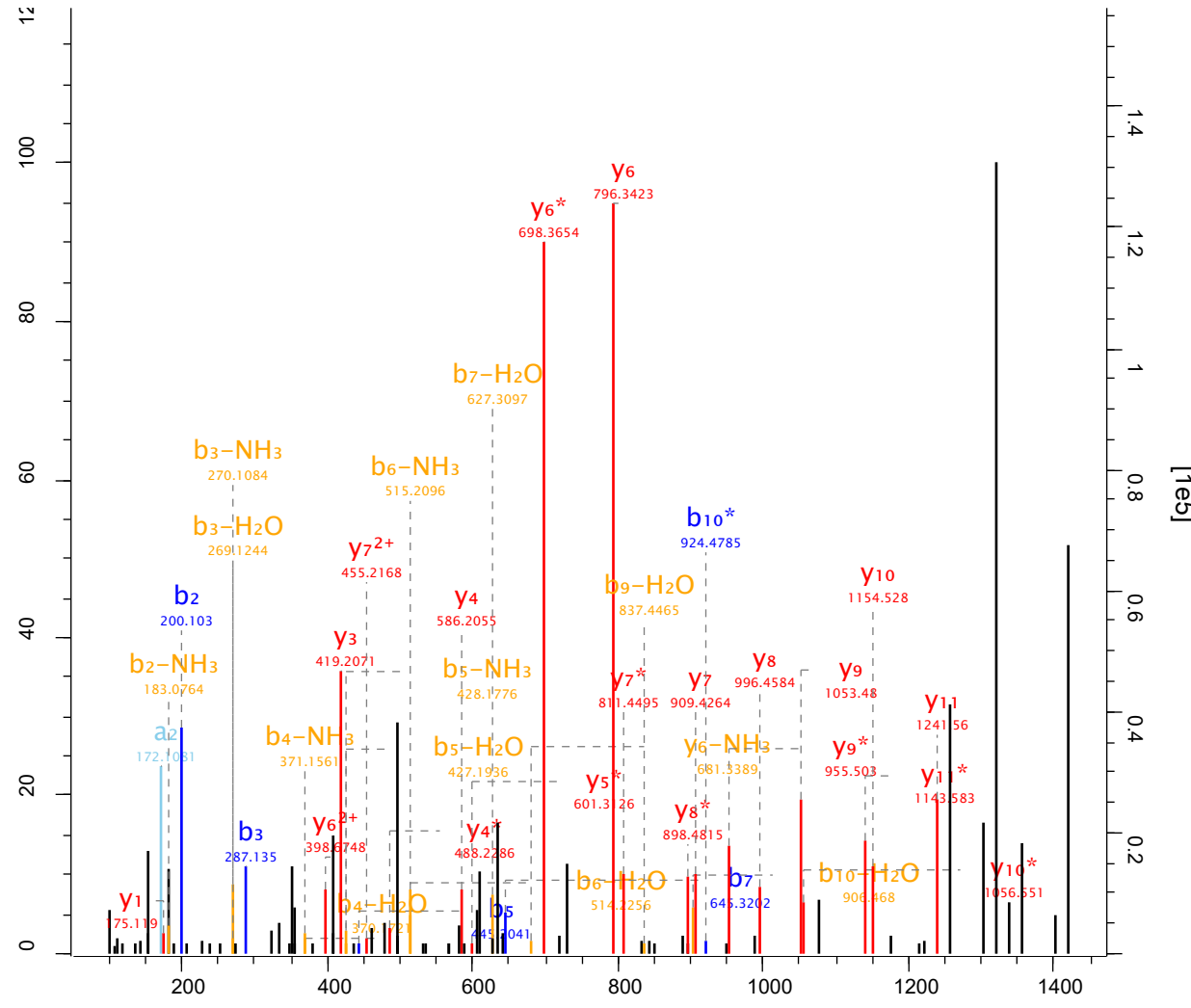




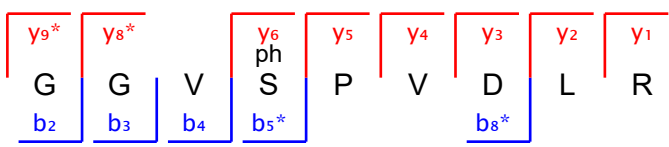
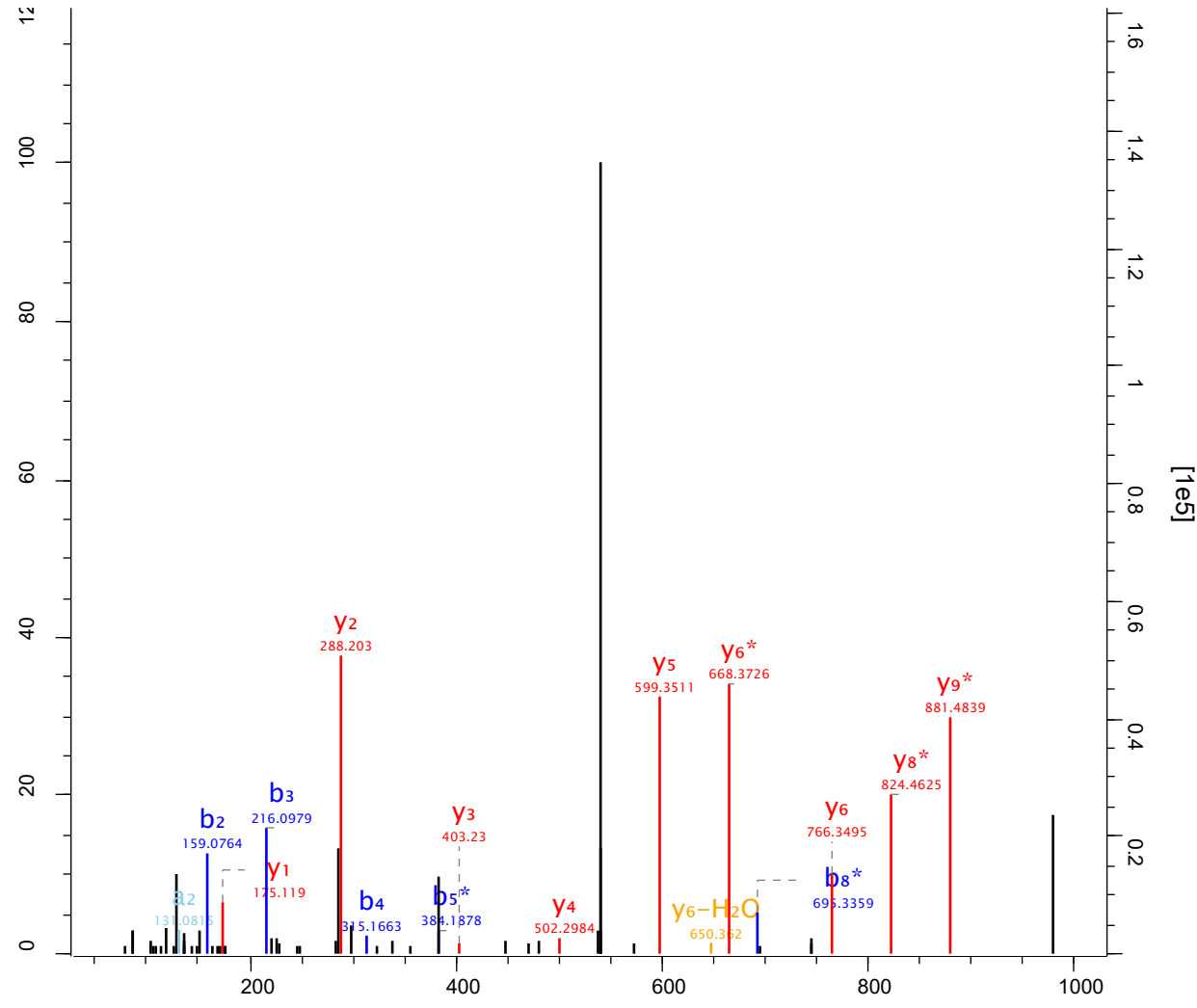
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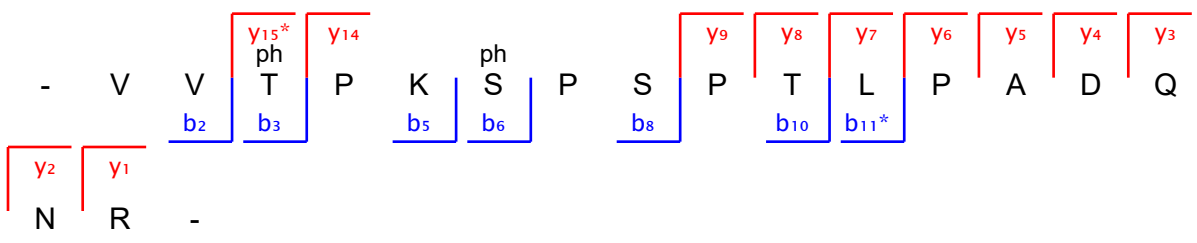
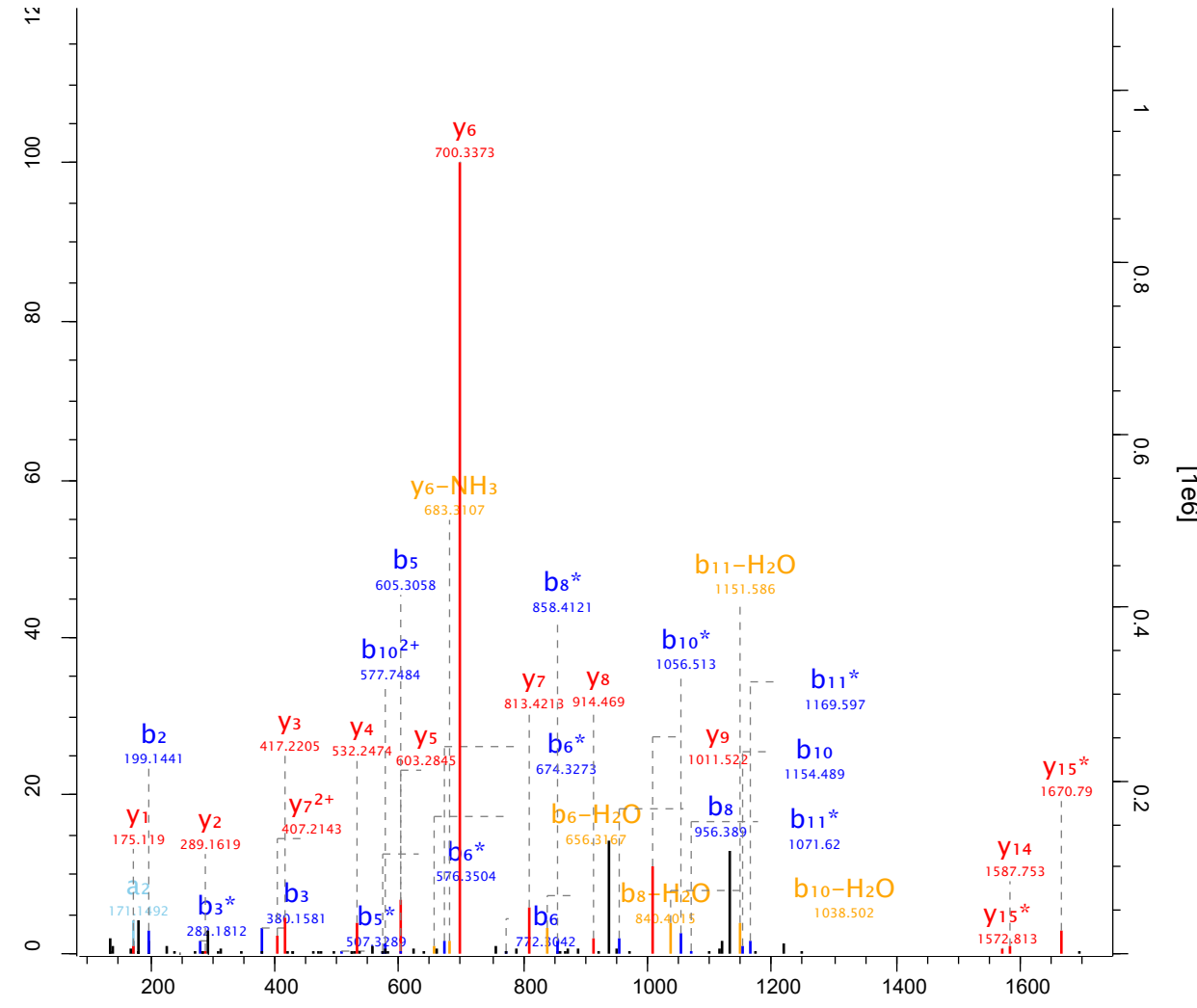
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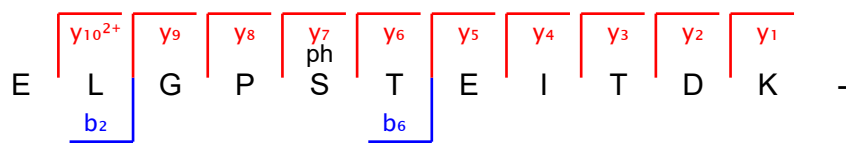
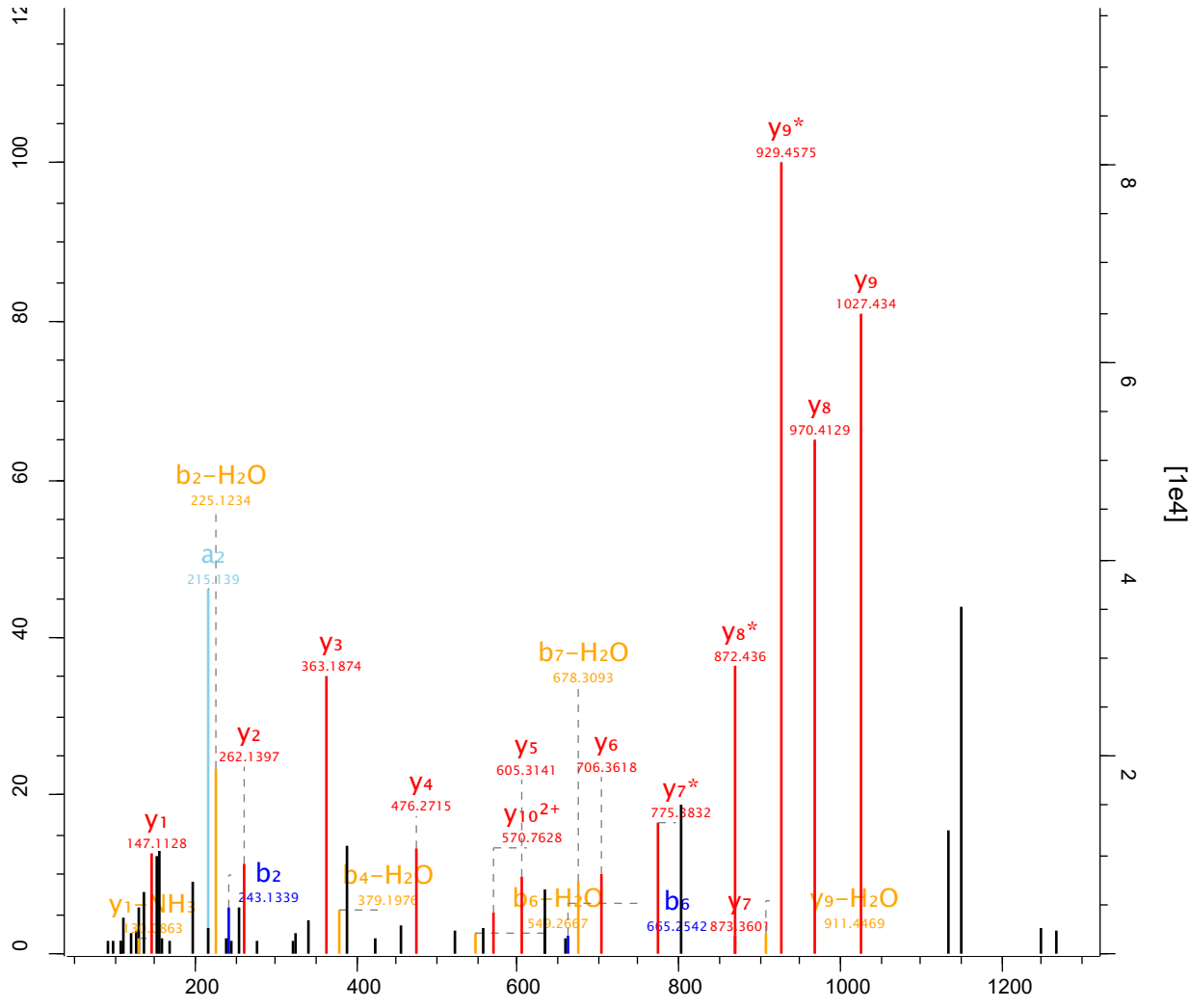
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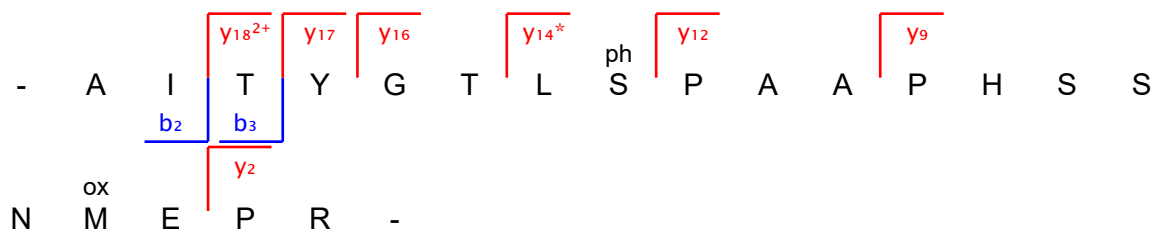
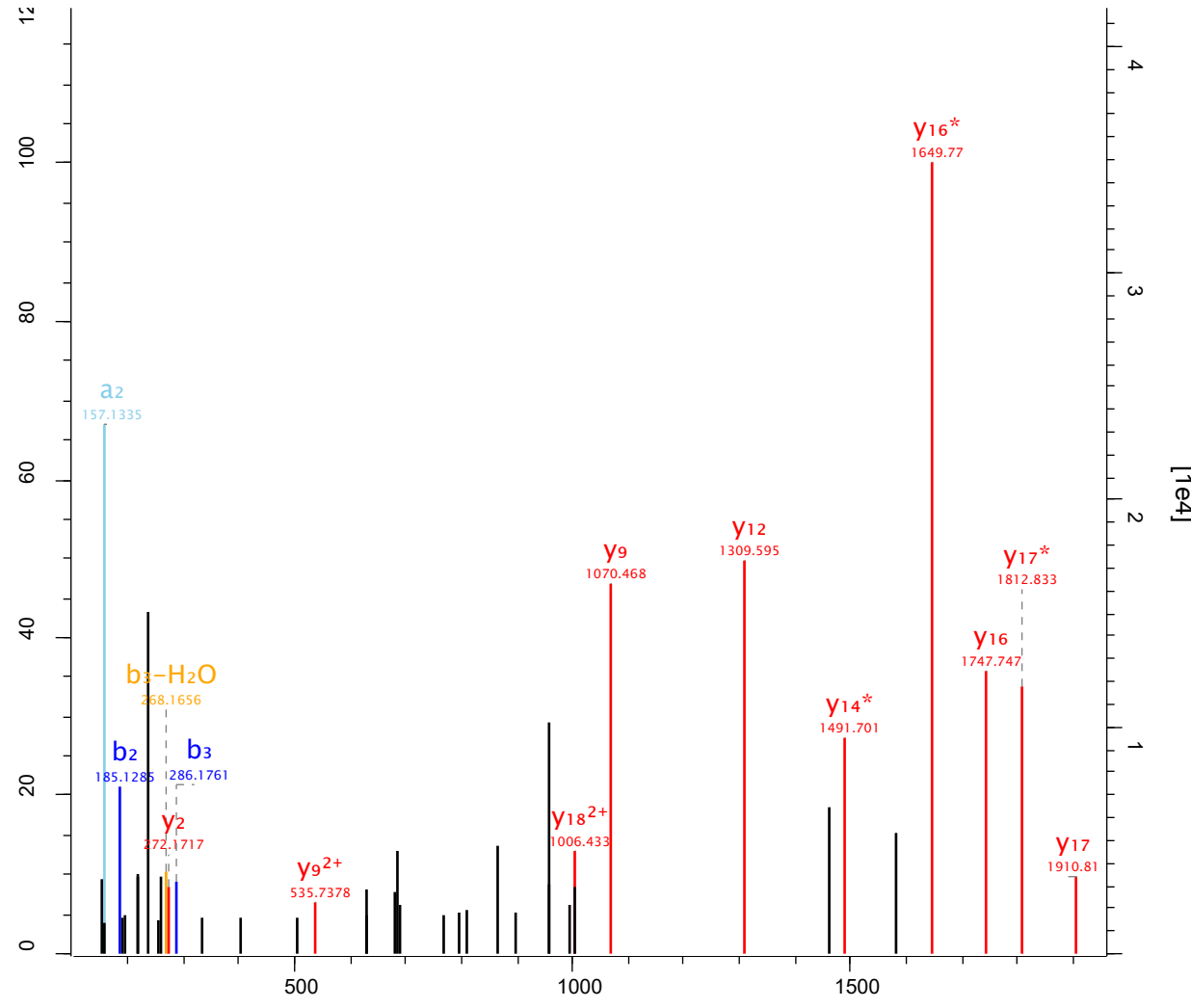
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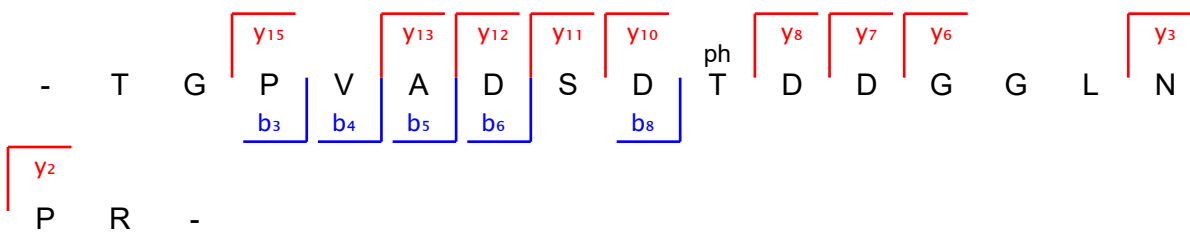
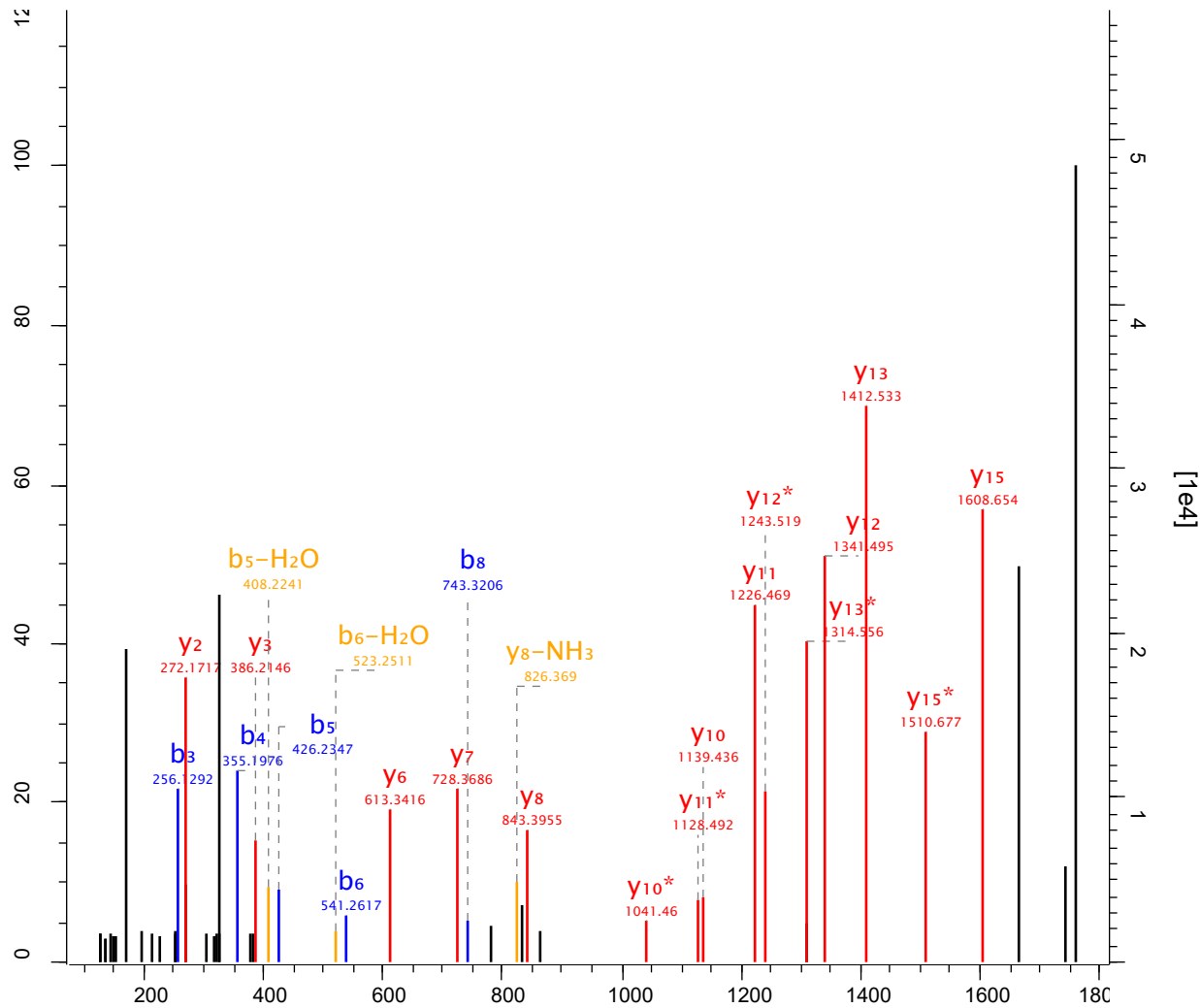
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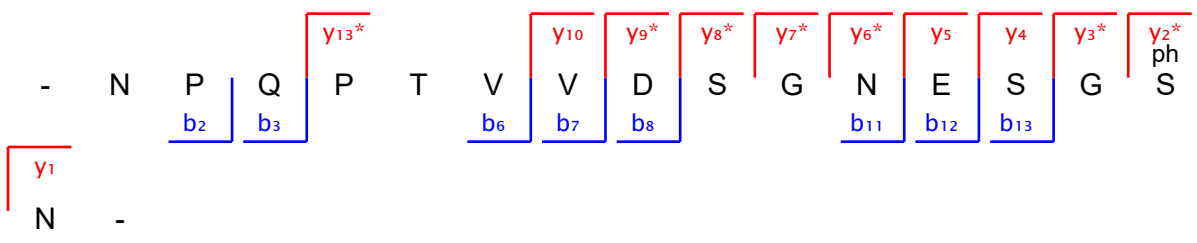
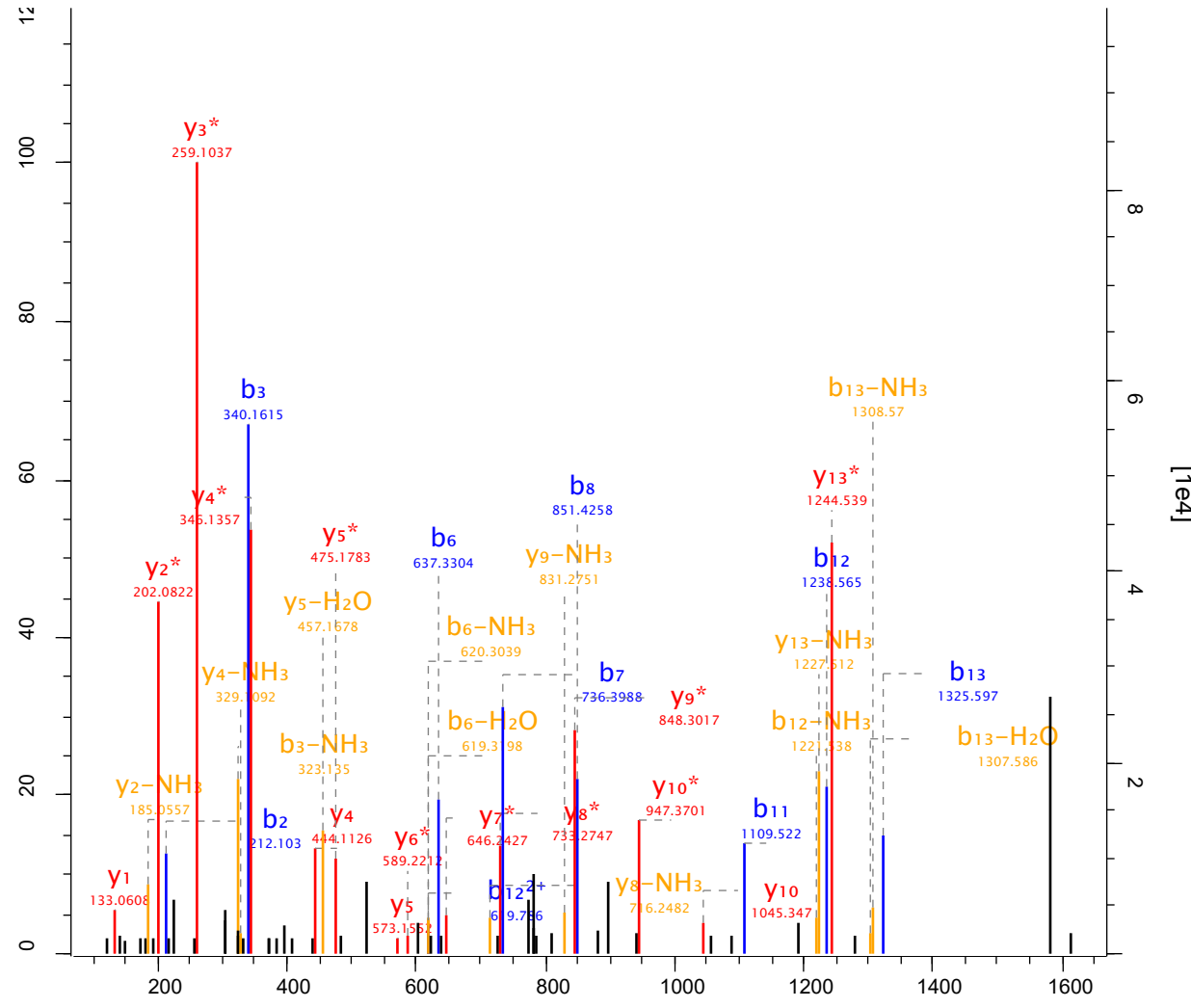
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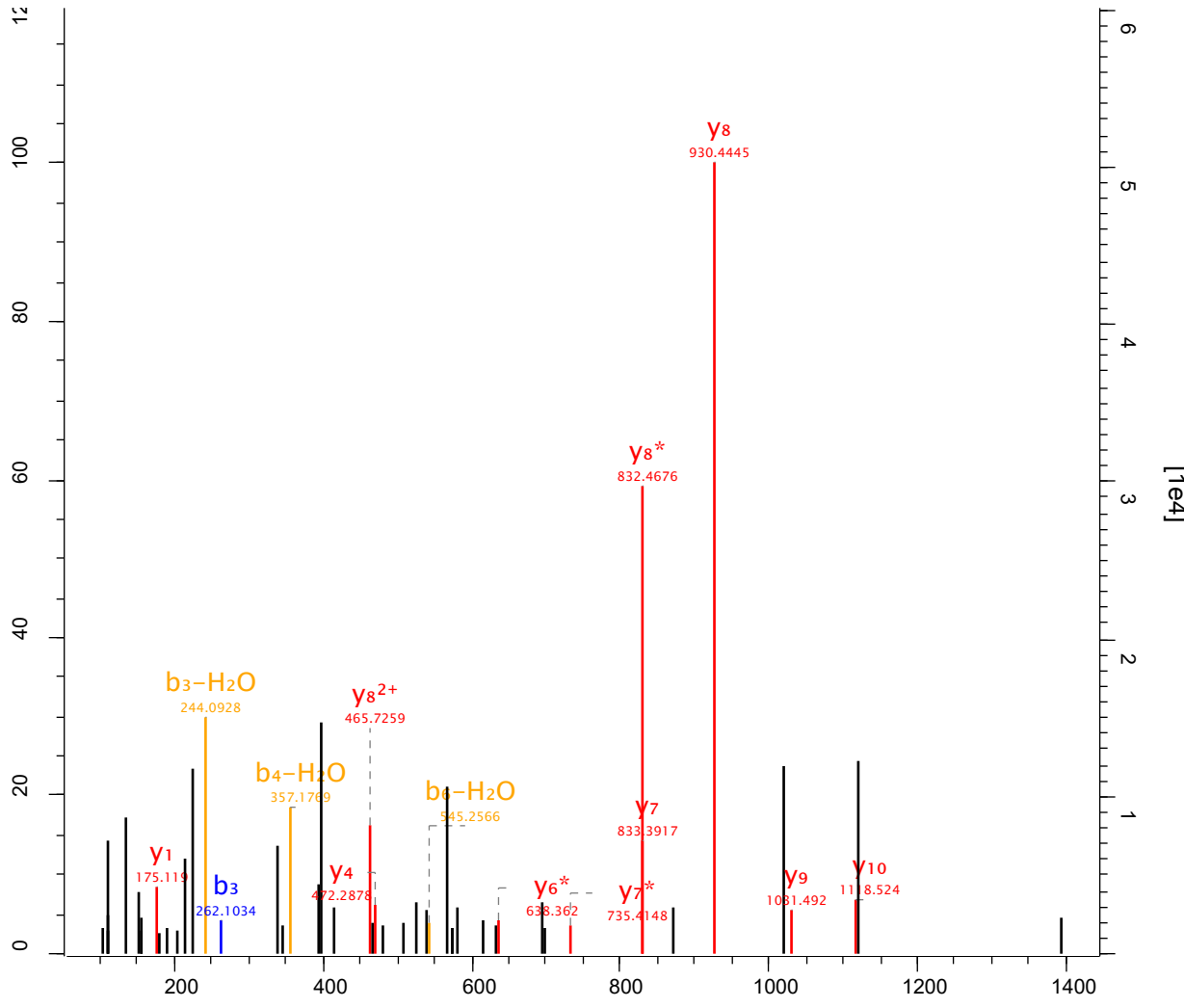


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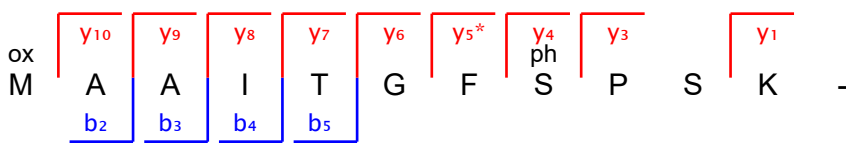
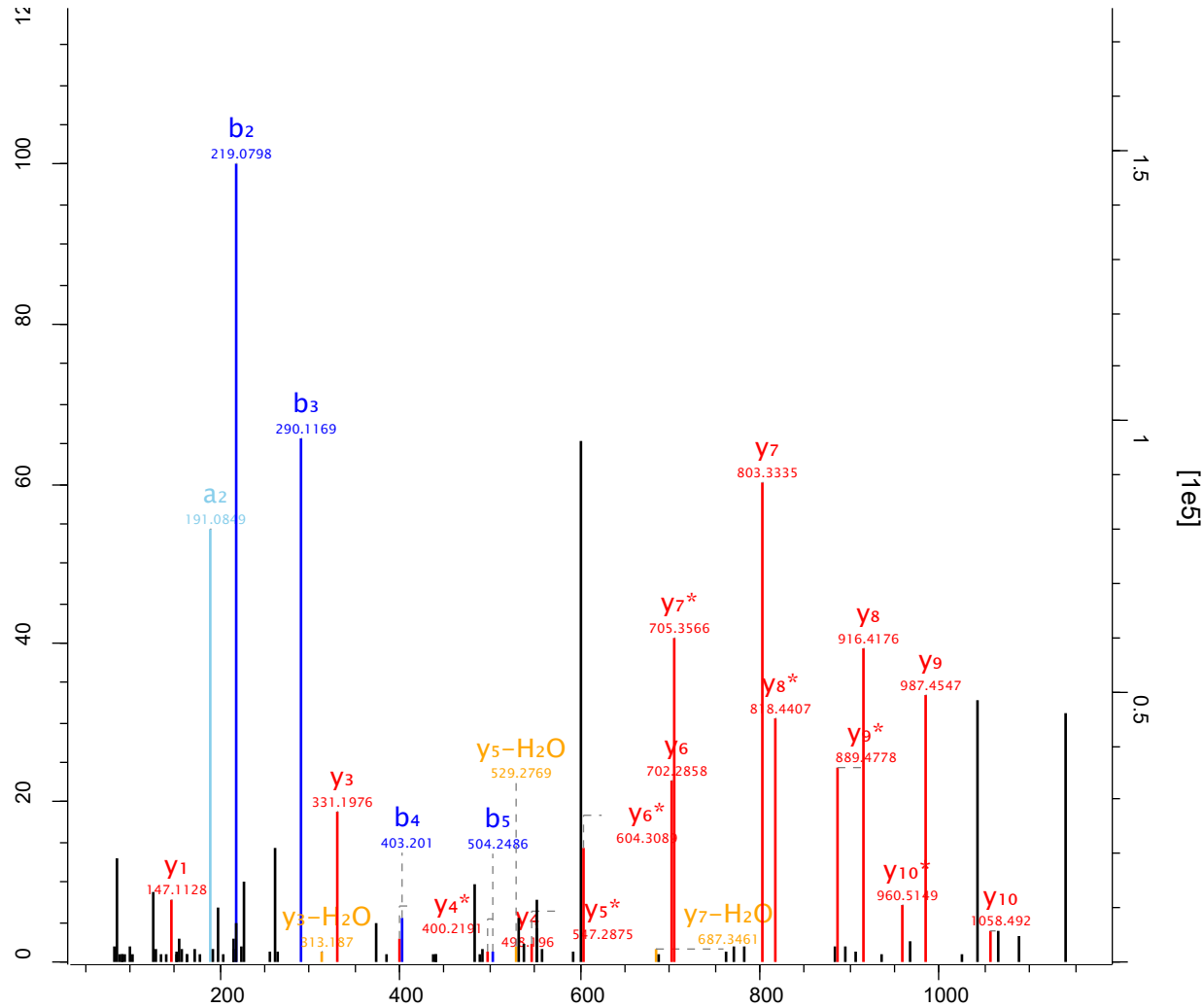
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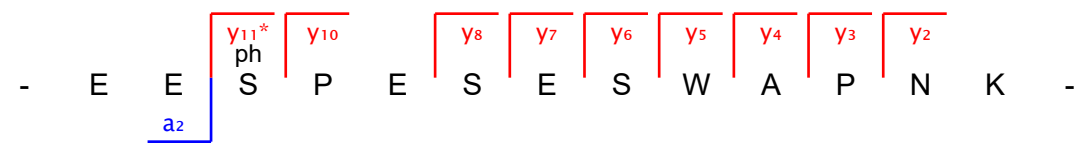
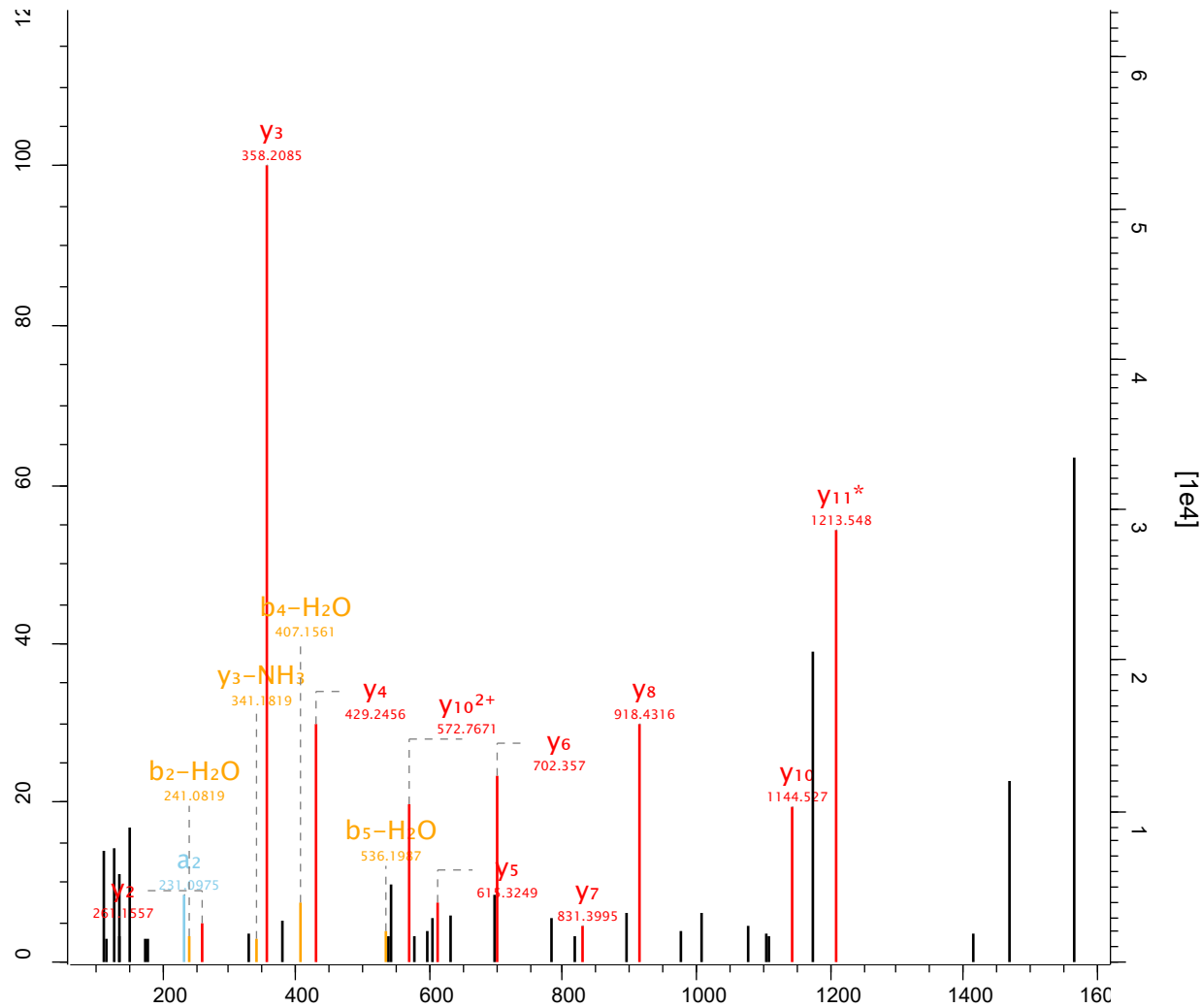
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Annotations: b3 (blue), y1-y10 (red), y8<sup>2+</sup> (dashed red), y8\* (red).

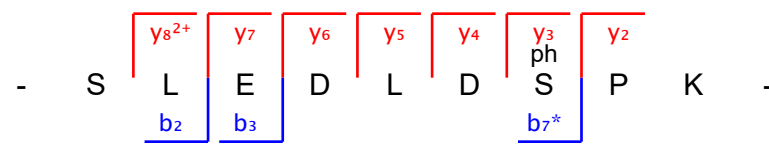
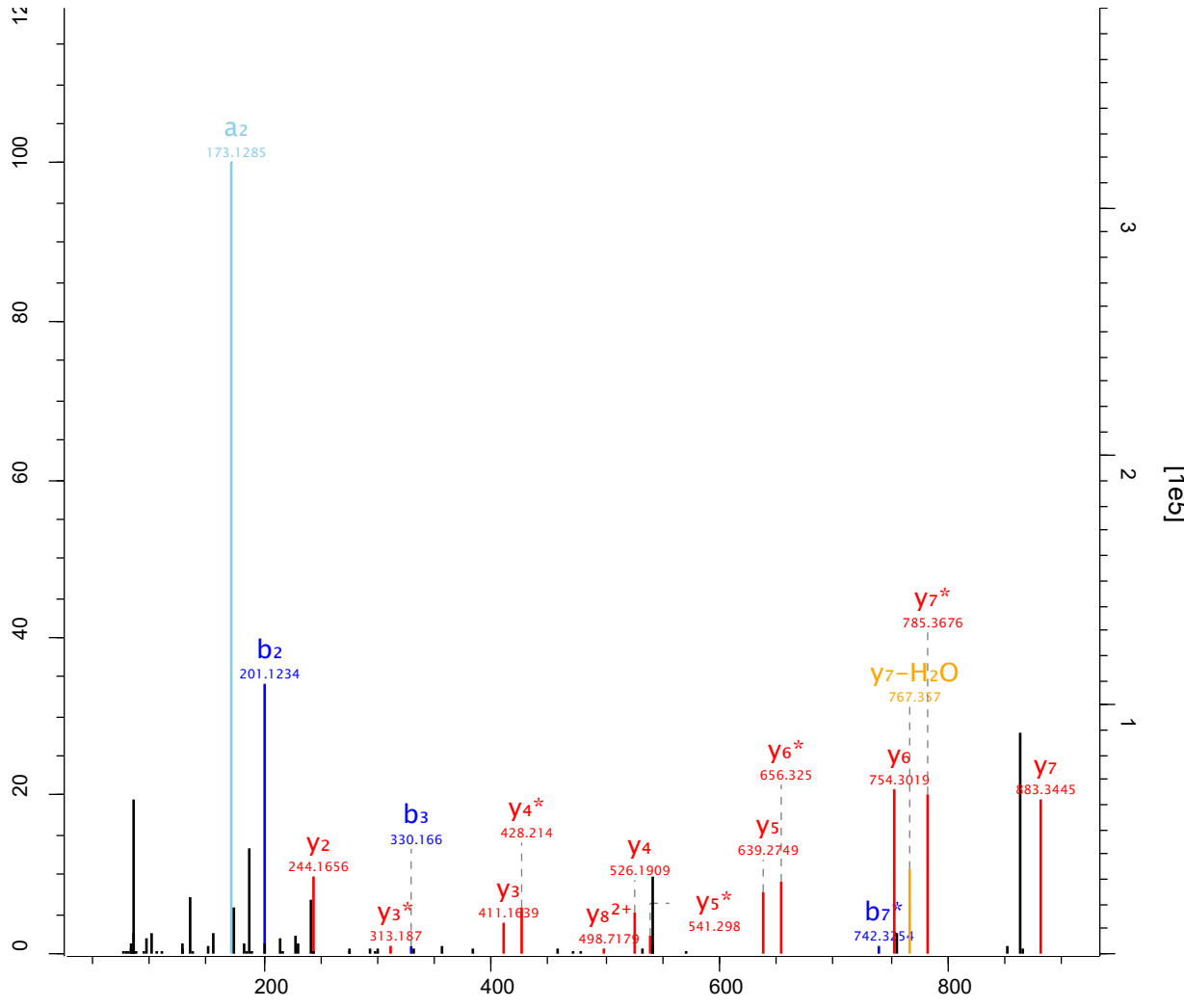
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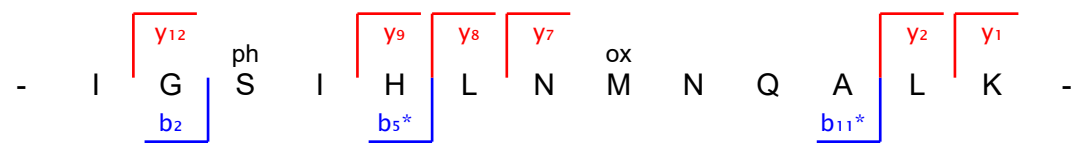
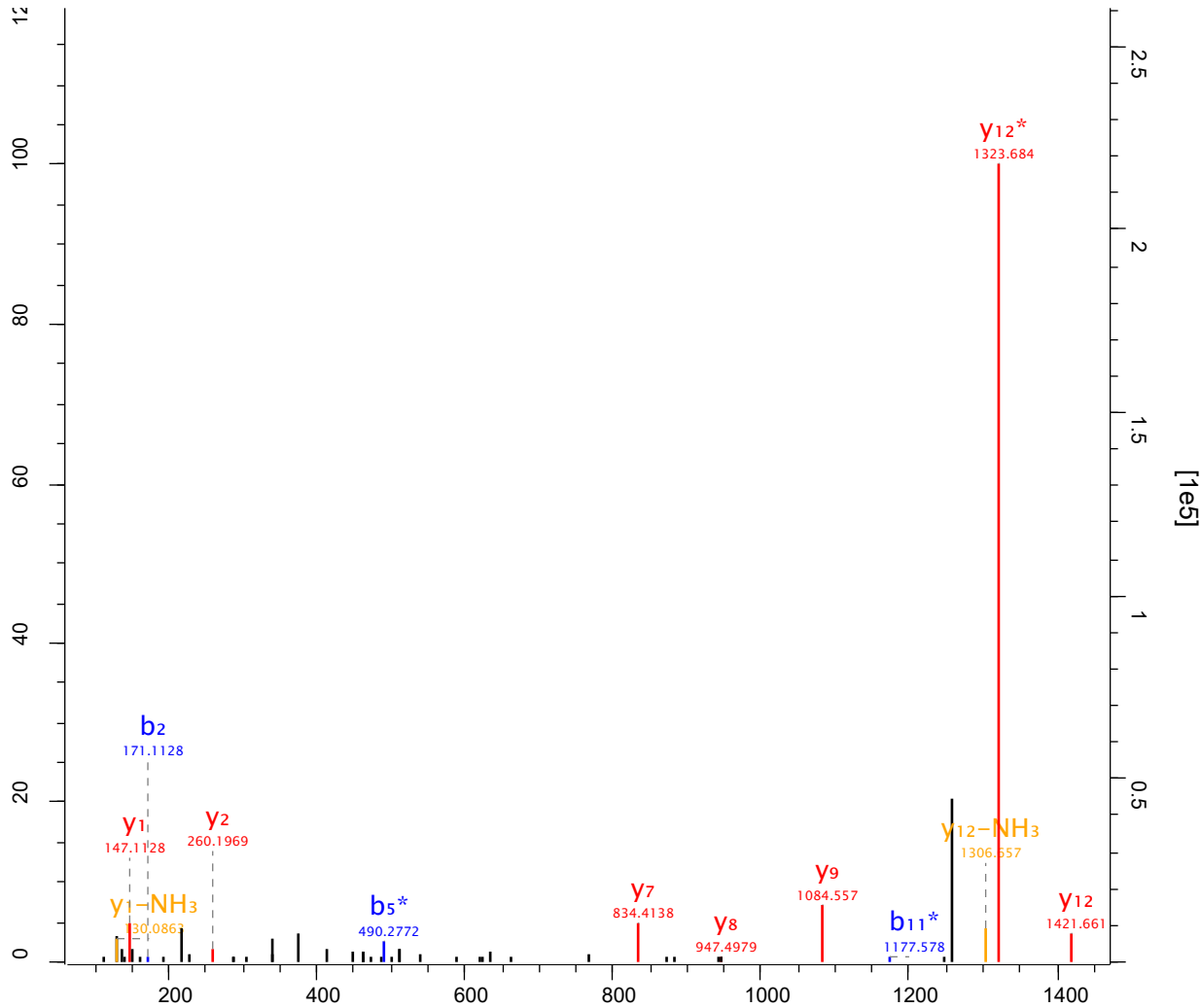
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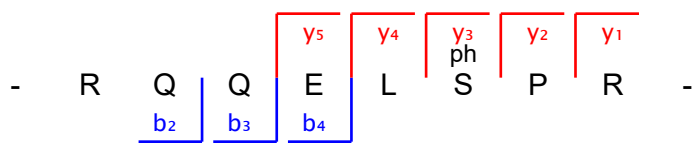
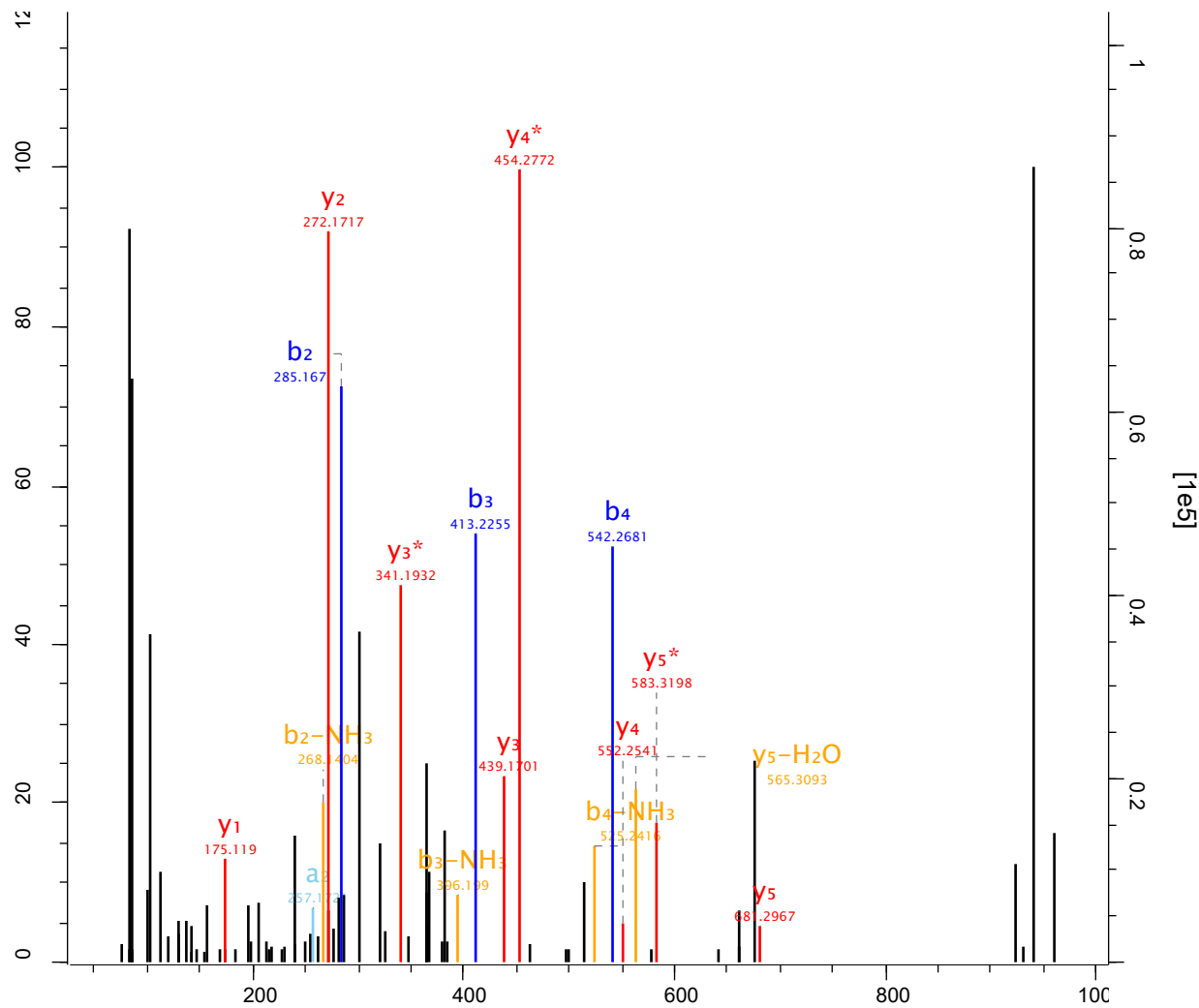
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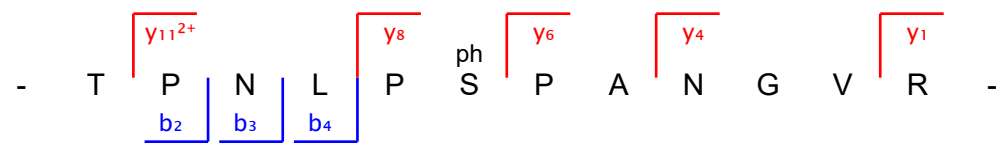
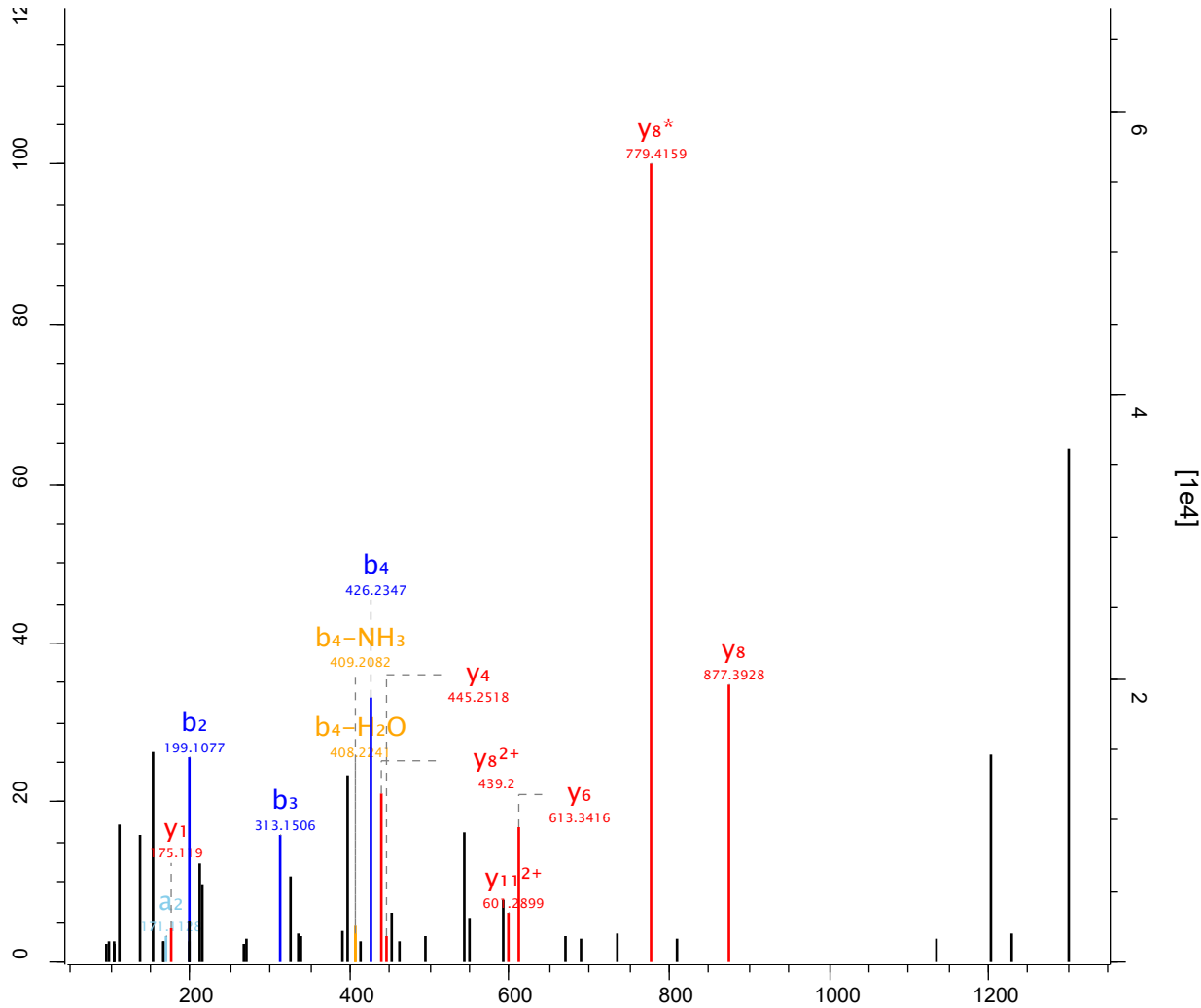
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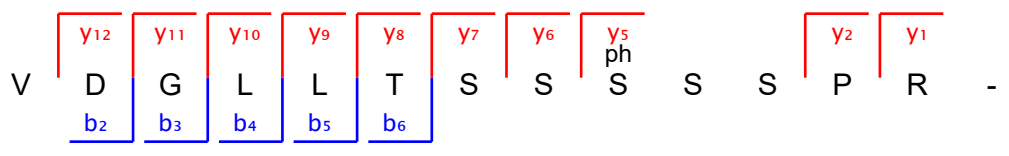
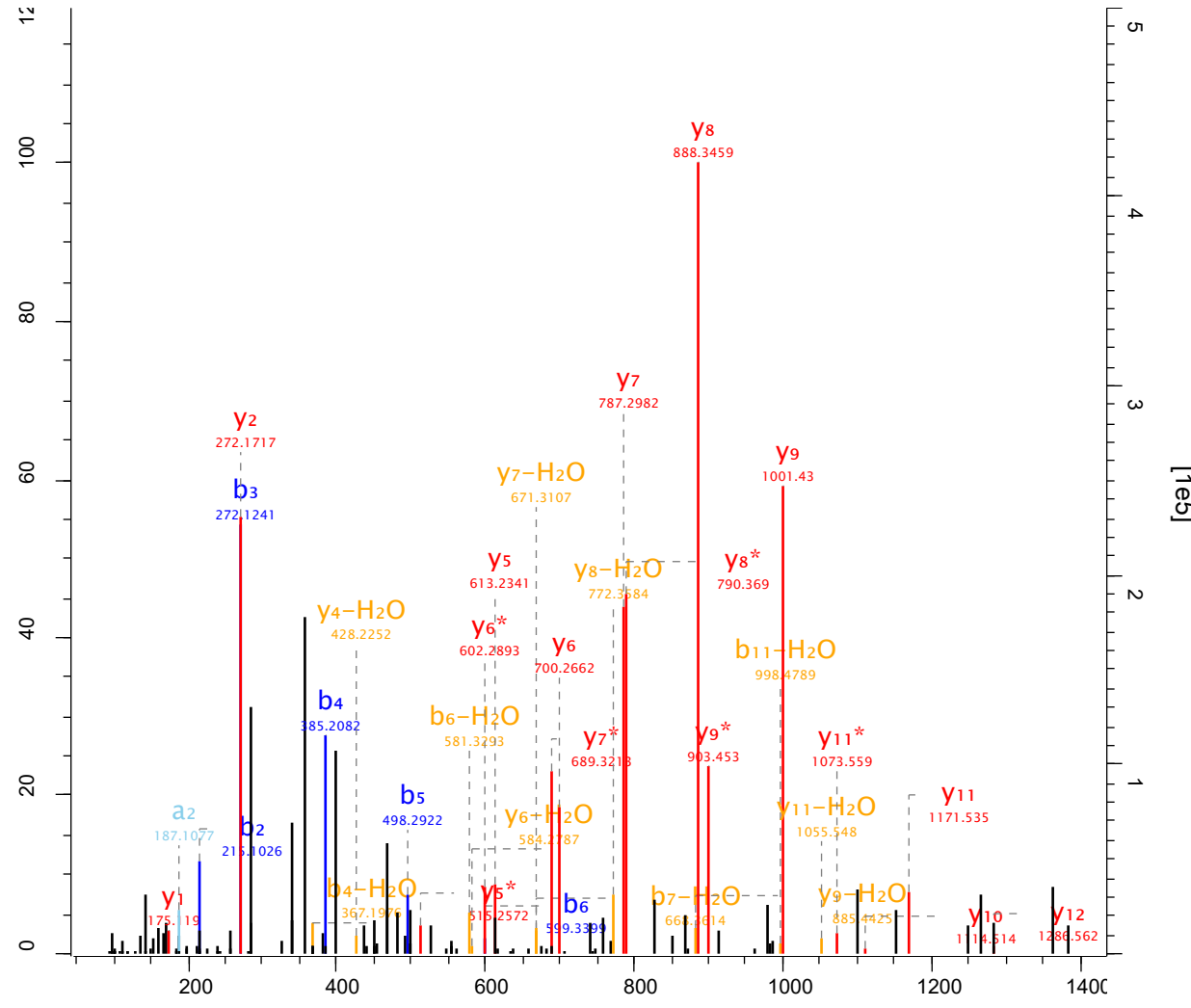
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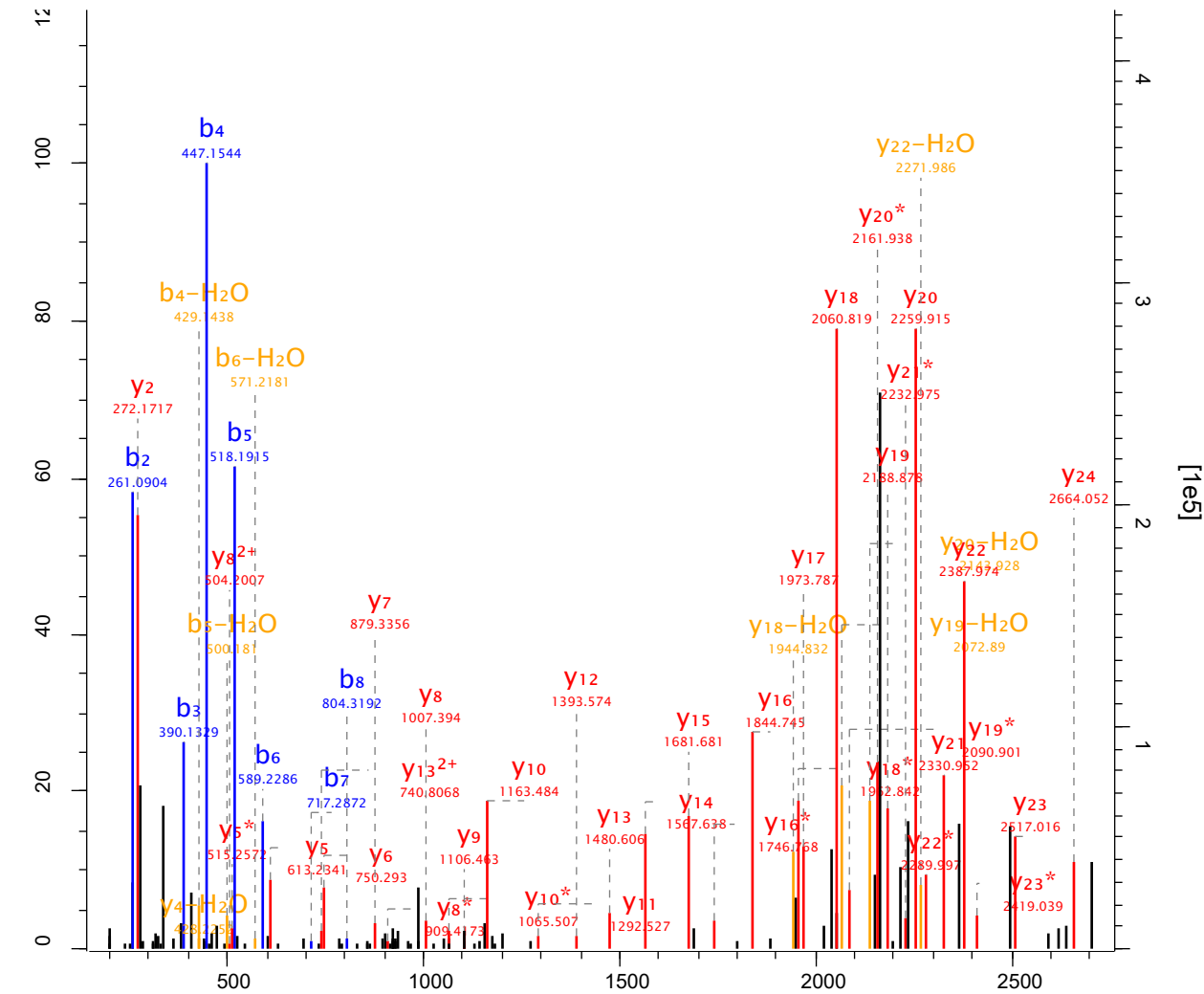


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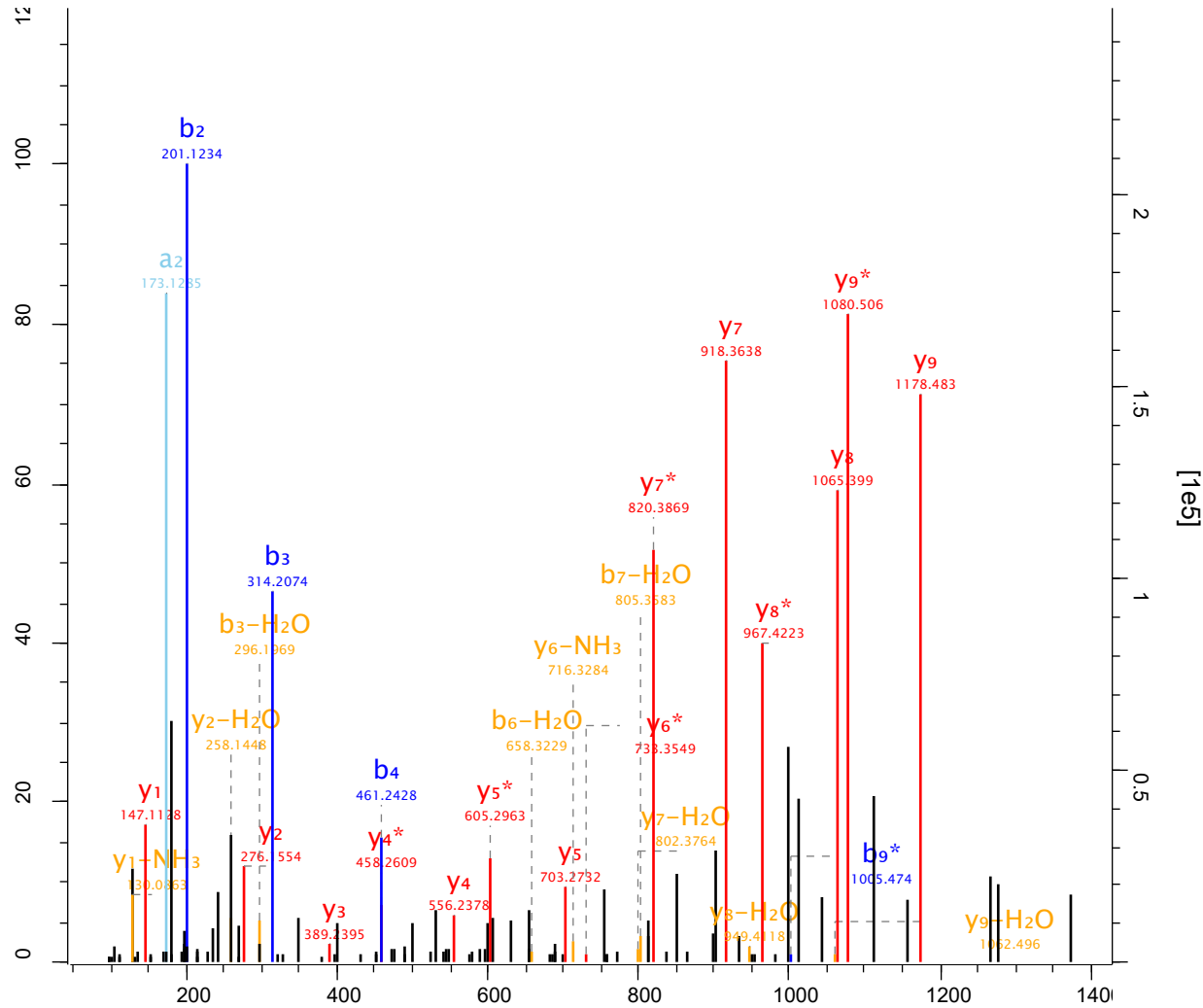


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ac  
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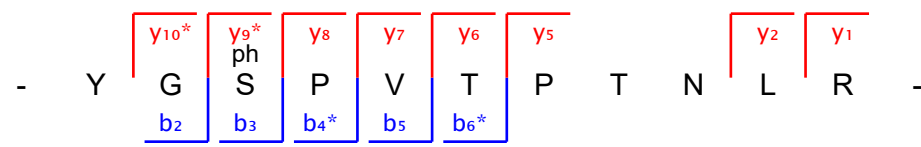
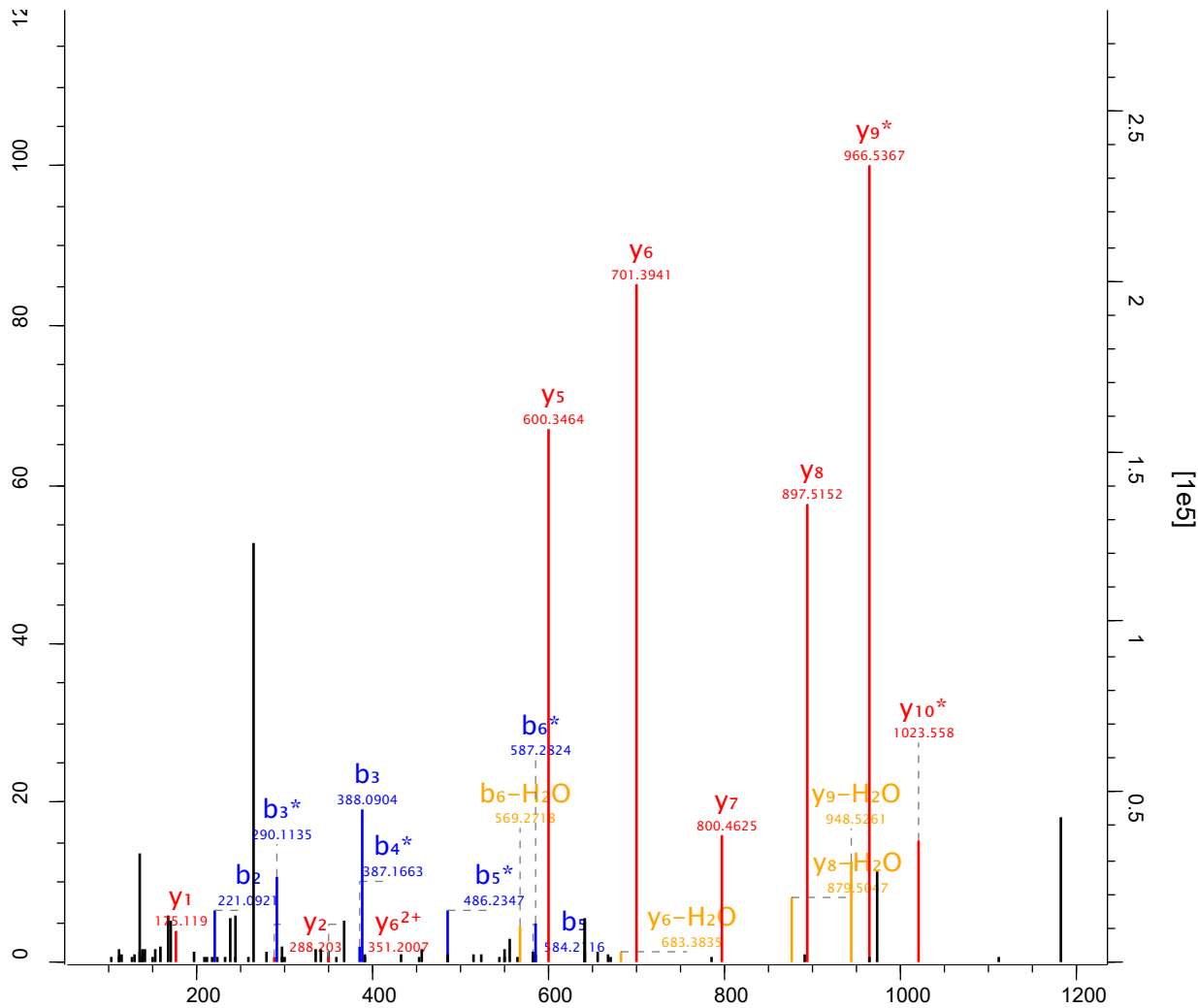
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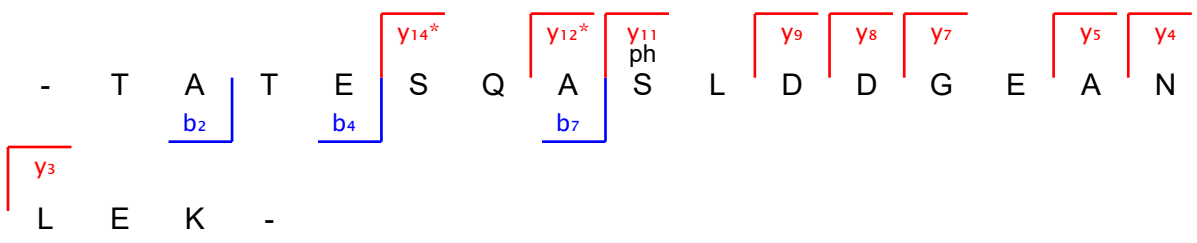
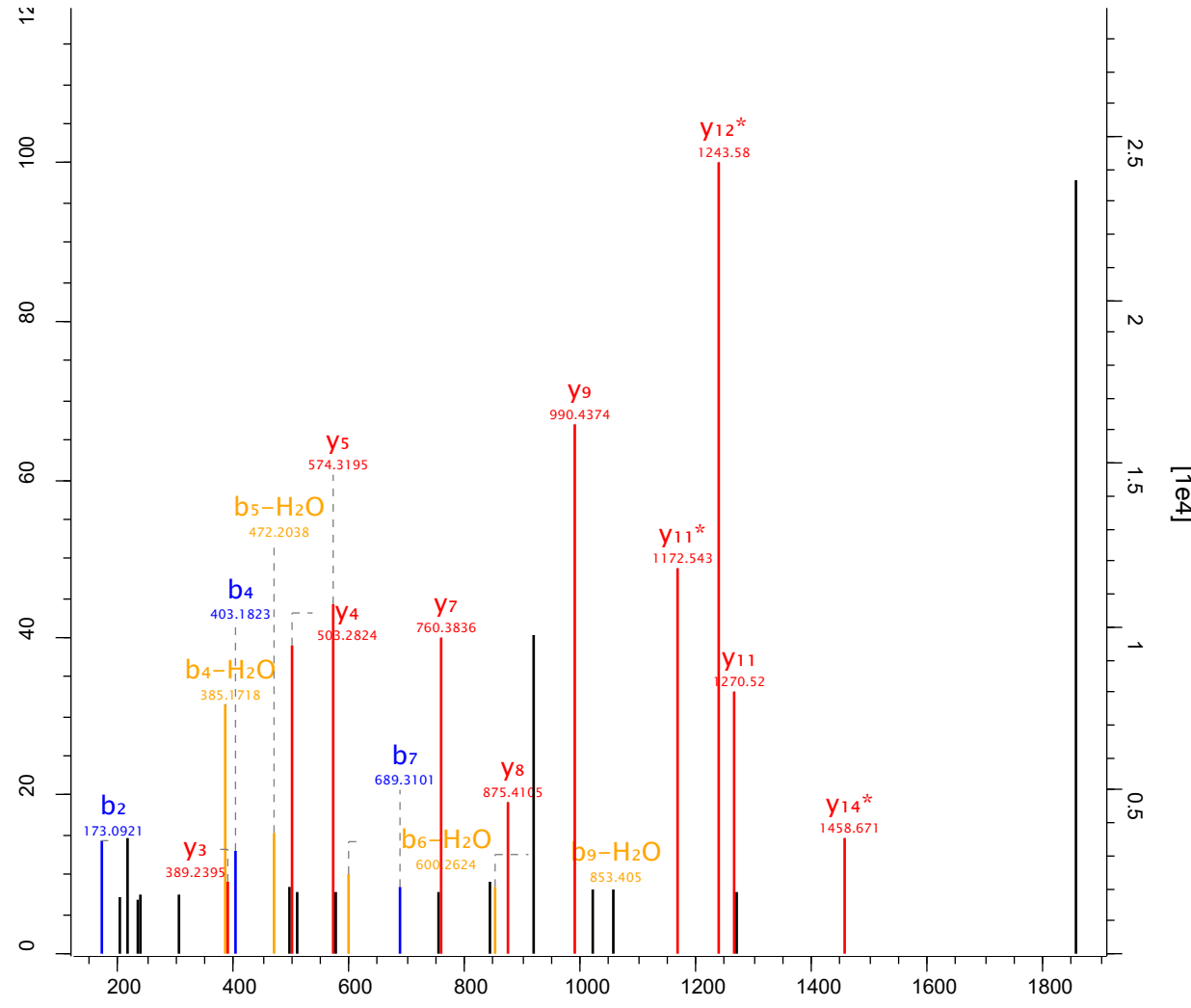
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ox
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y<sub>6</sub><sup>\*</sup>
y<sub>5</sub>  
ox
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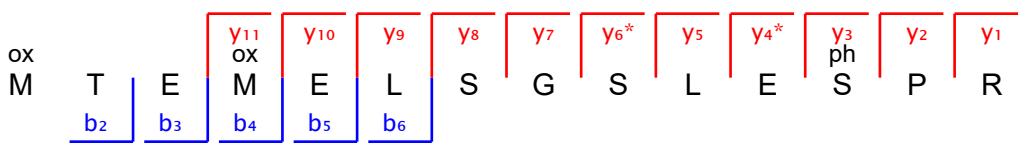
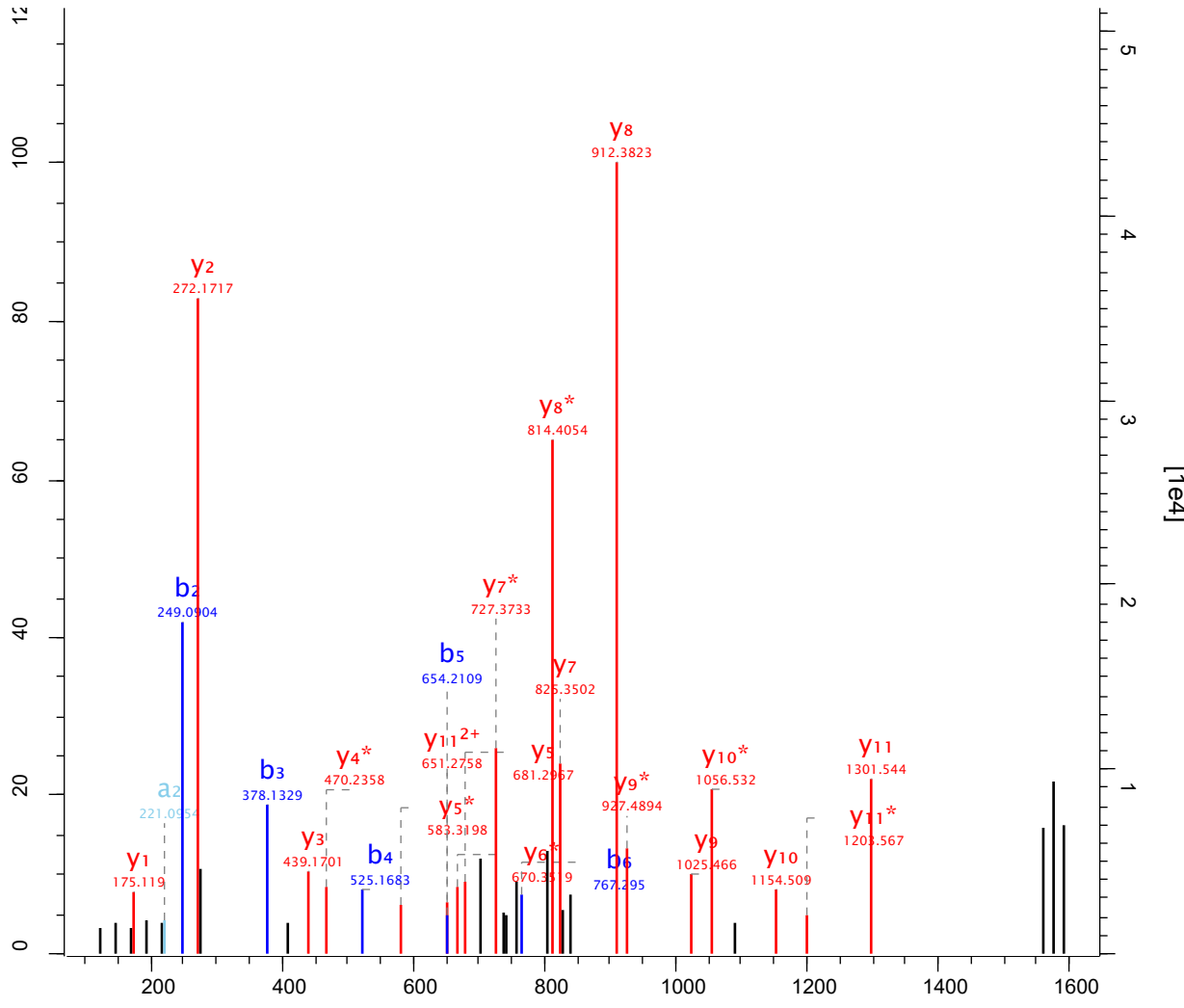
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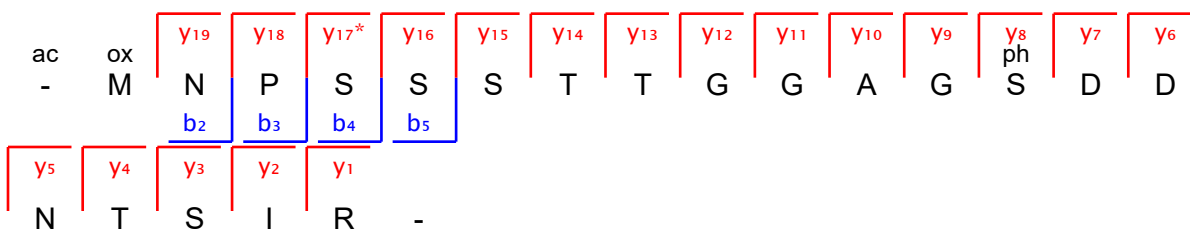
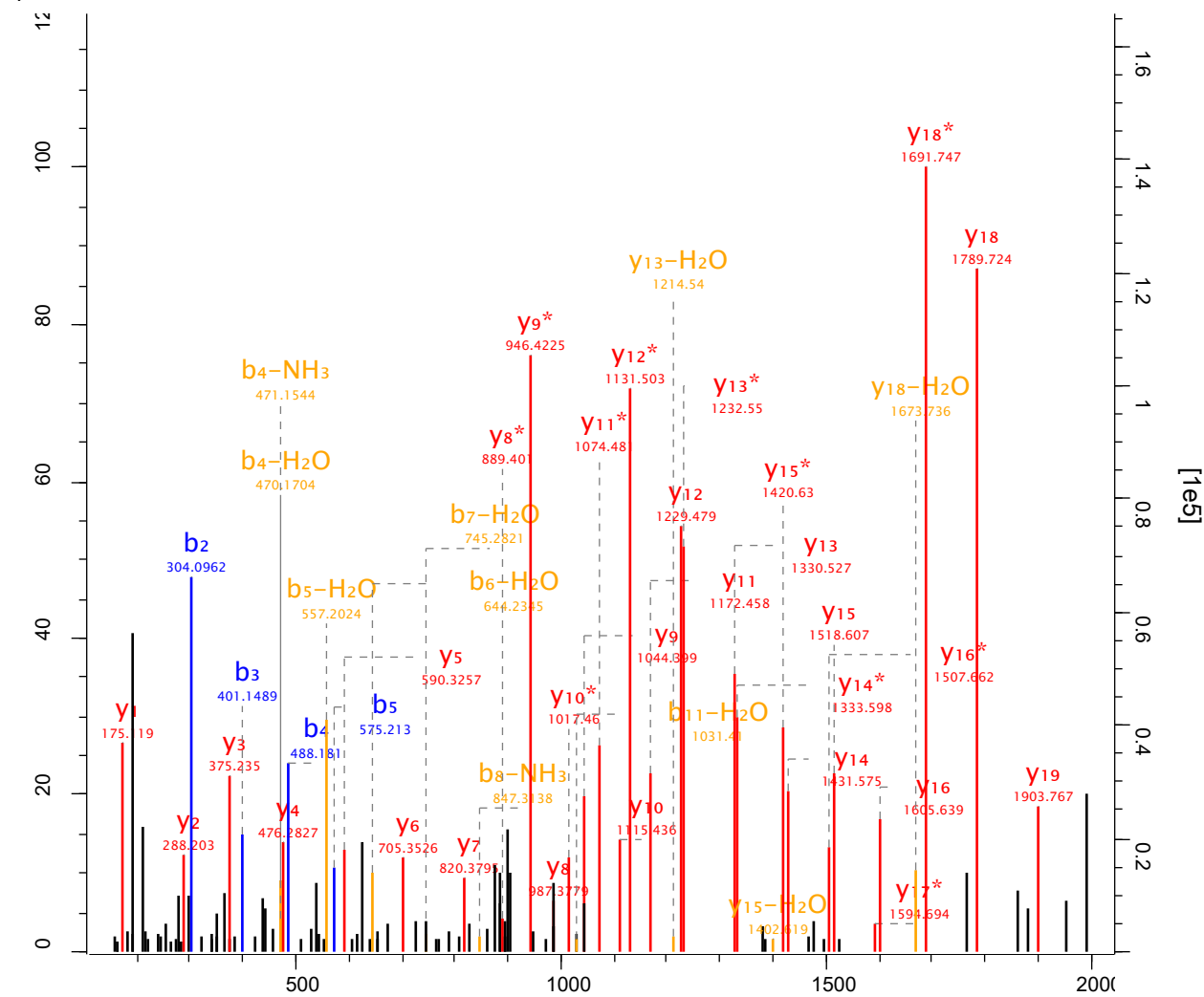
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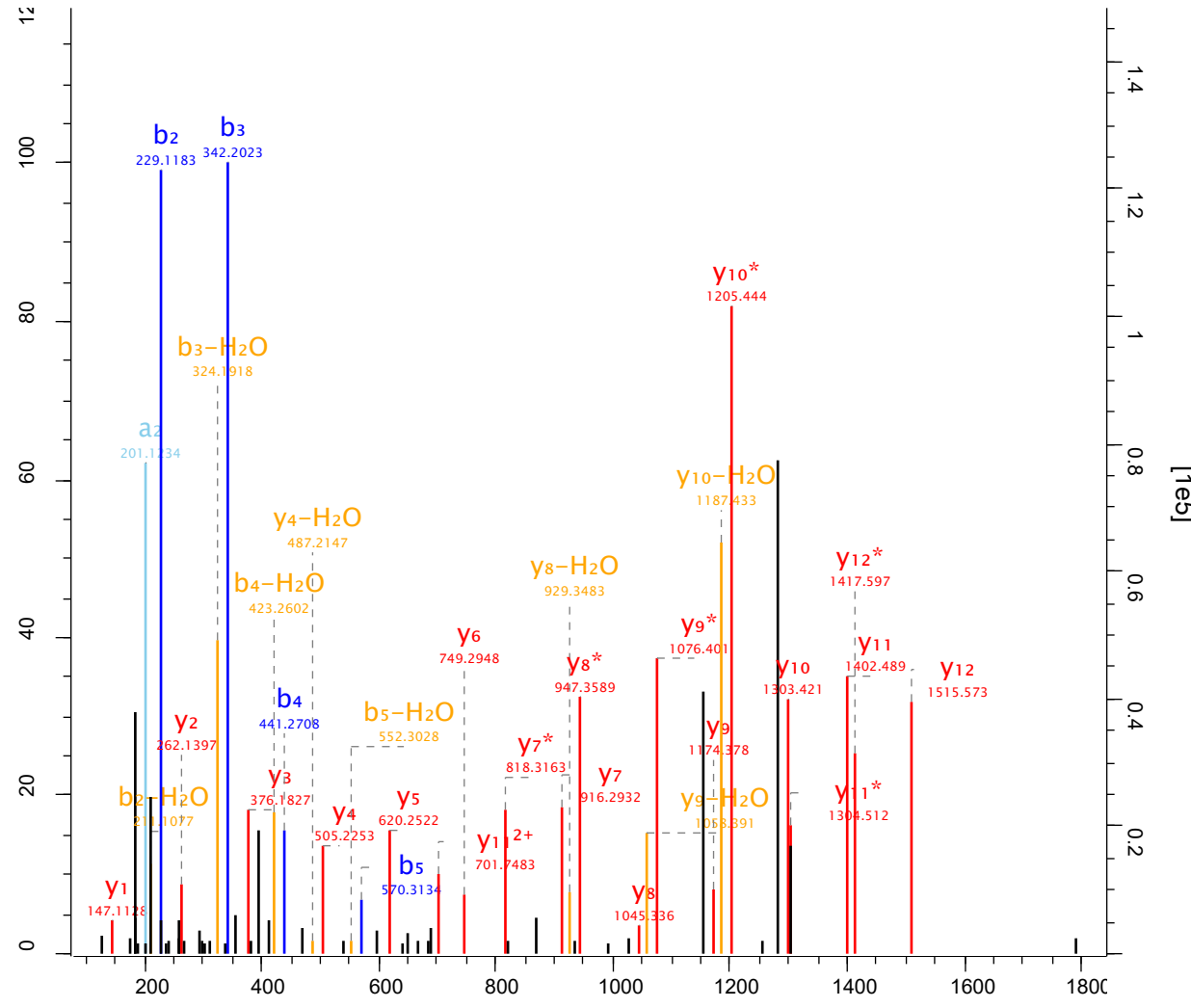
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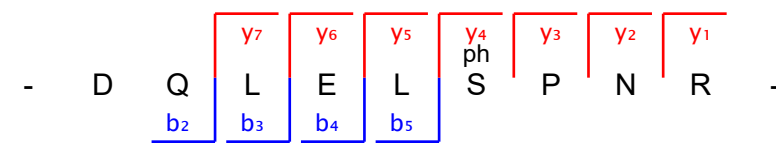
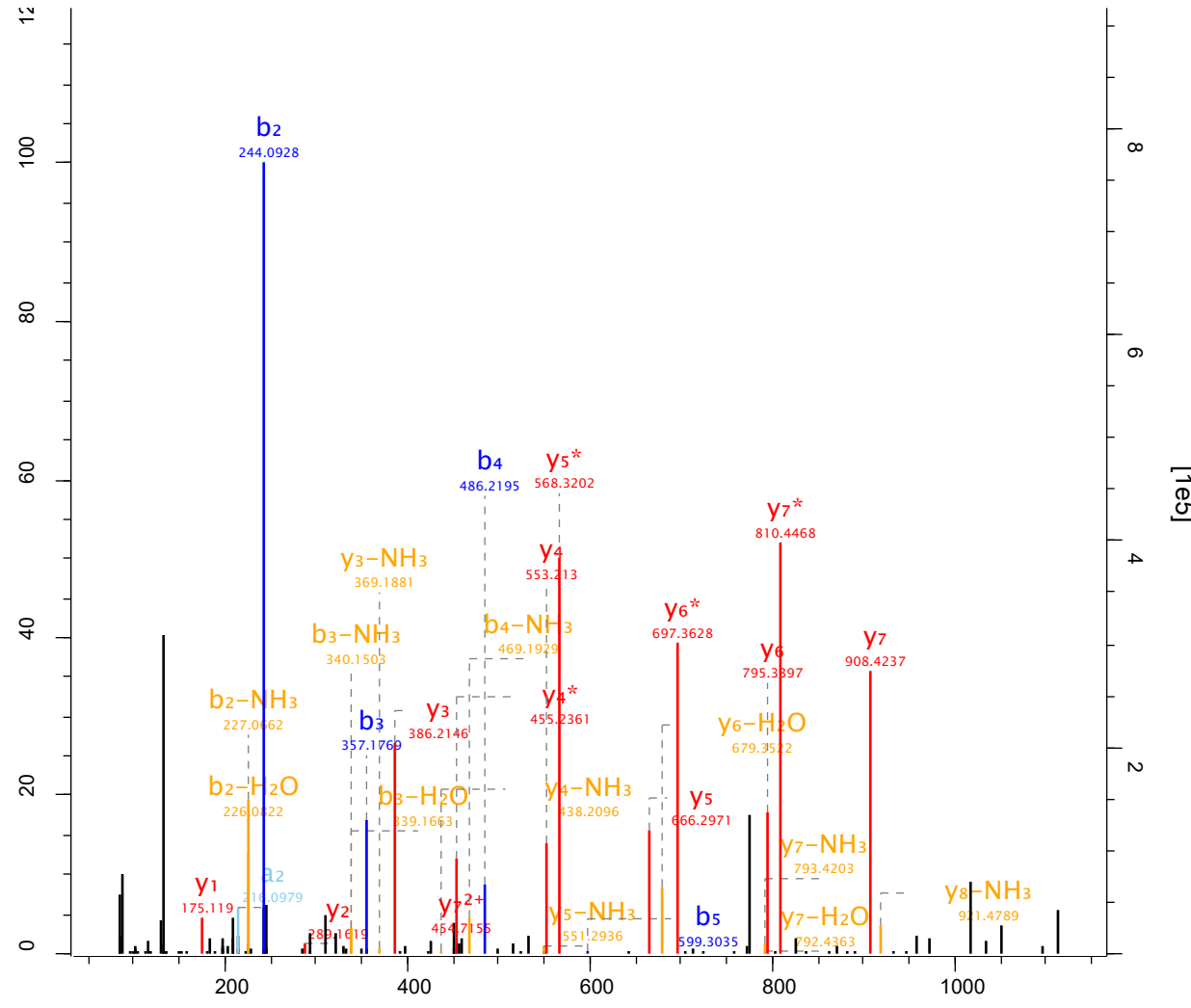
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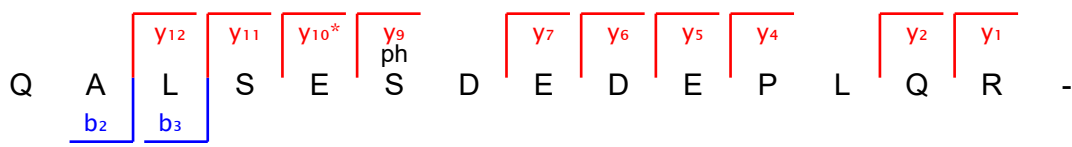
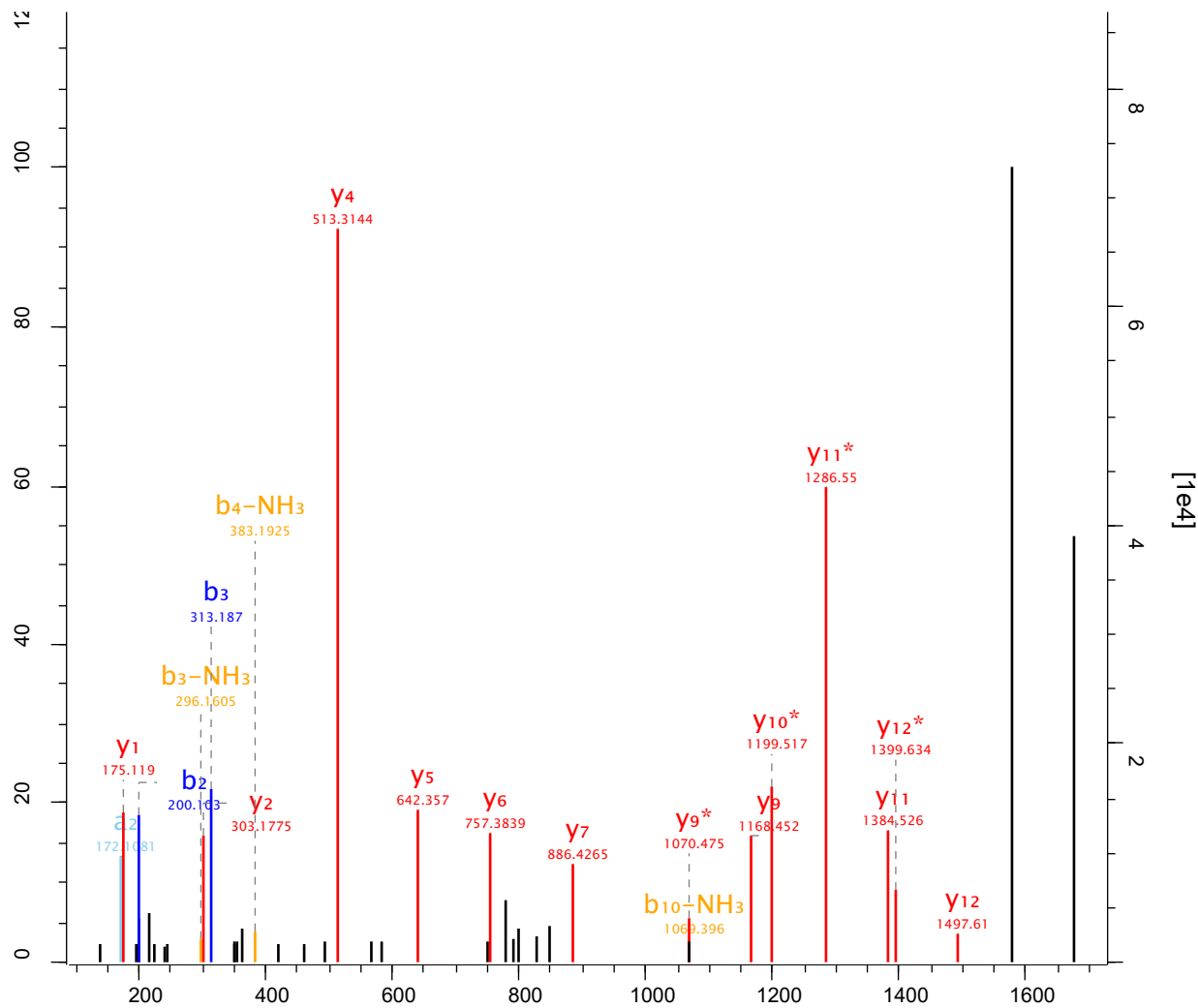
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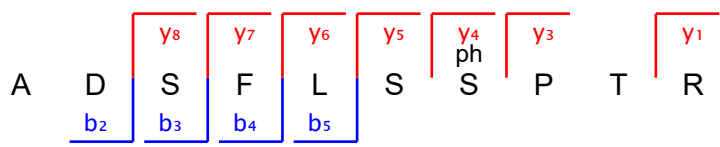
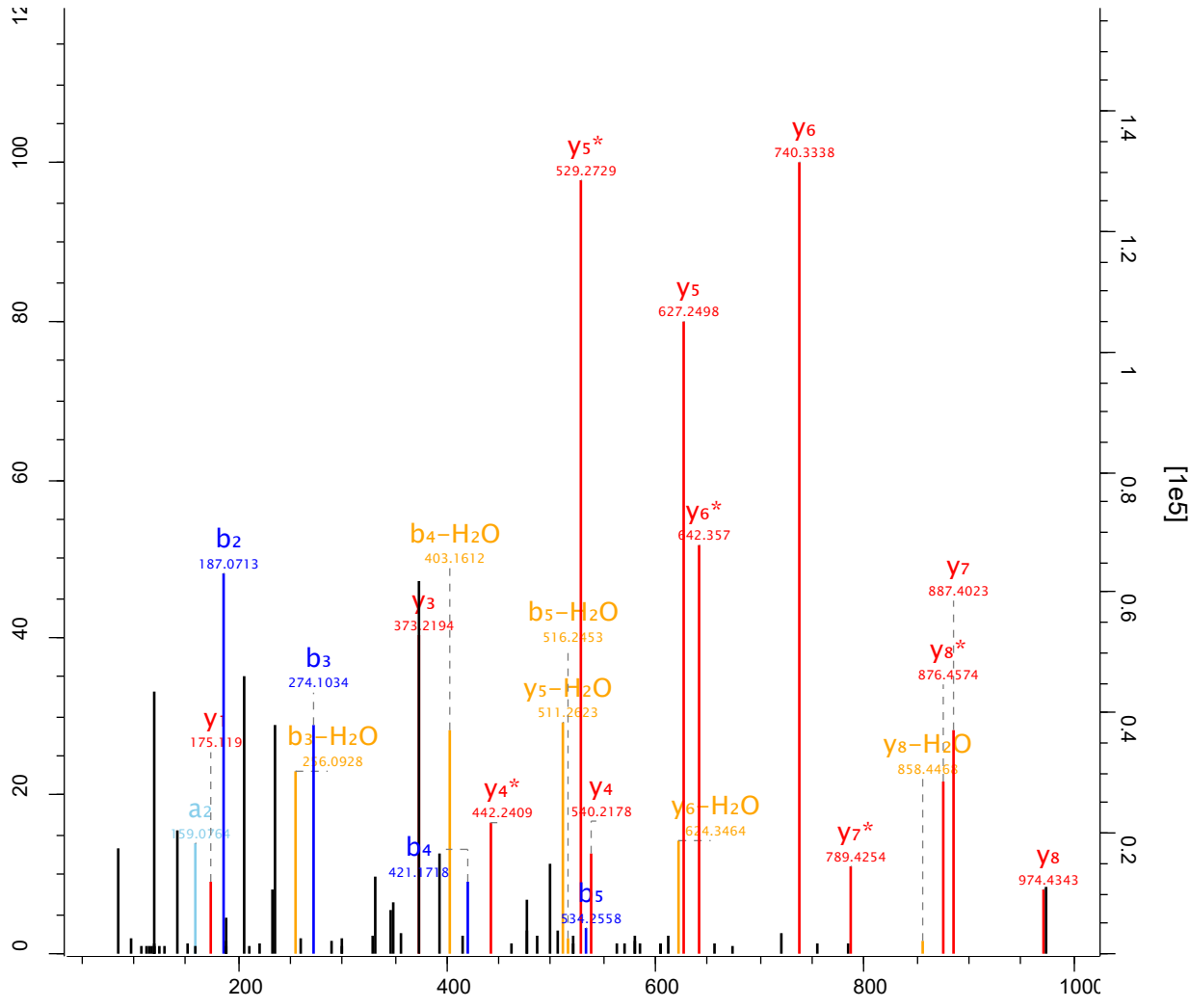




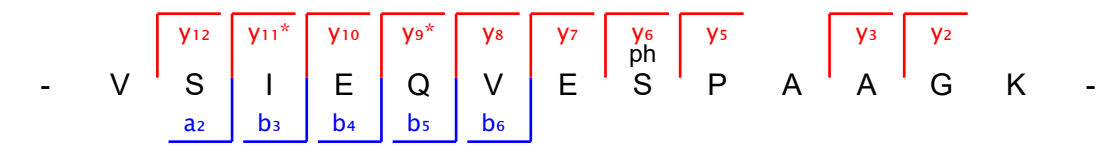
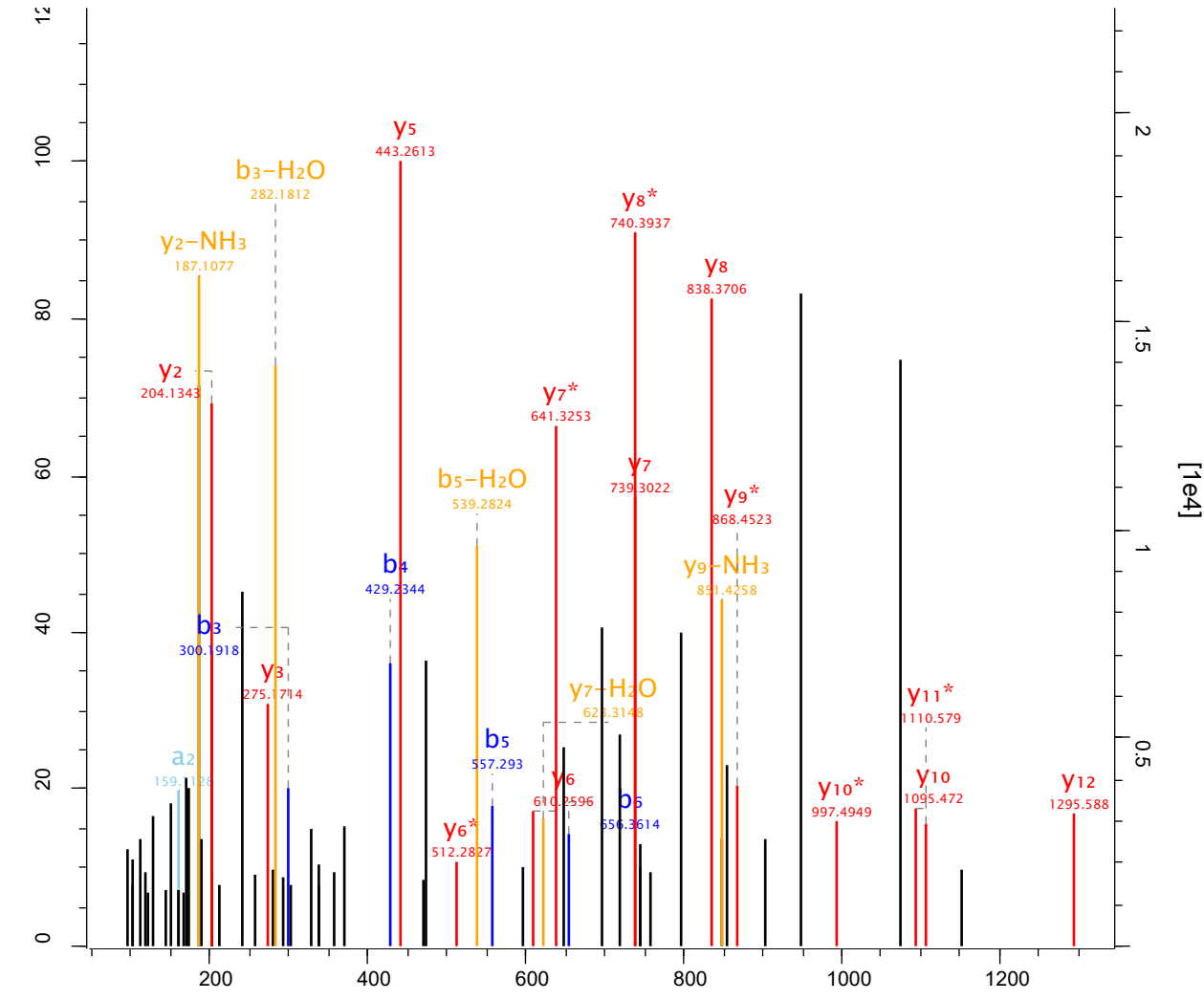
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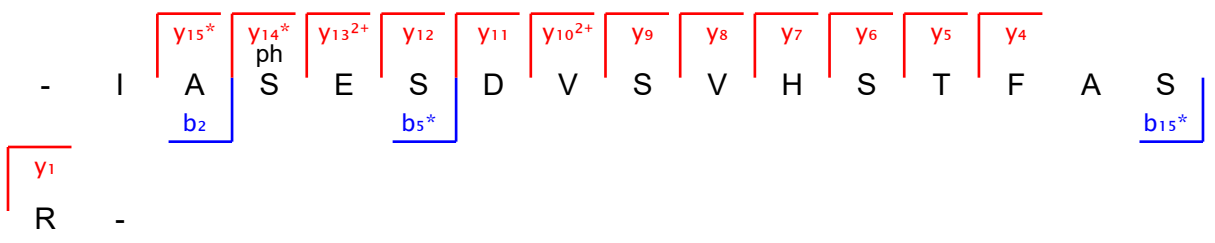
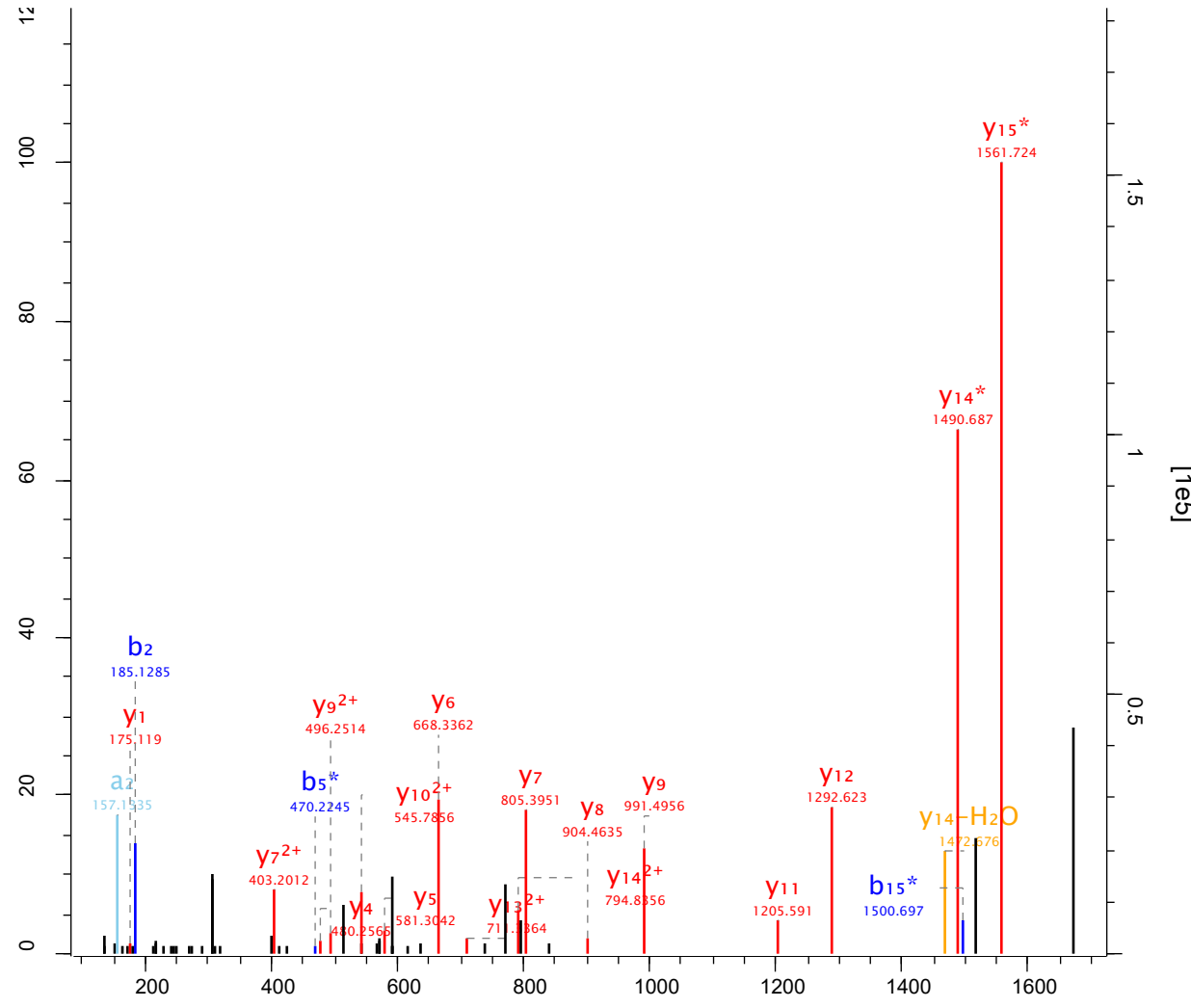
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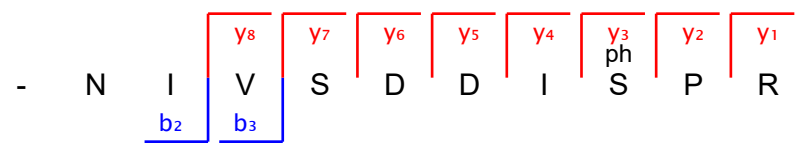
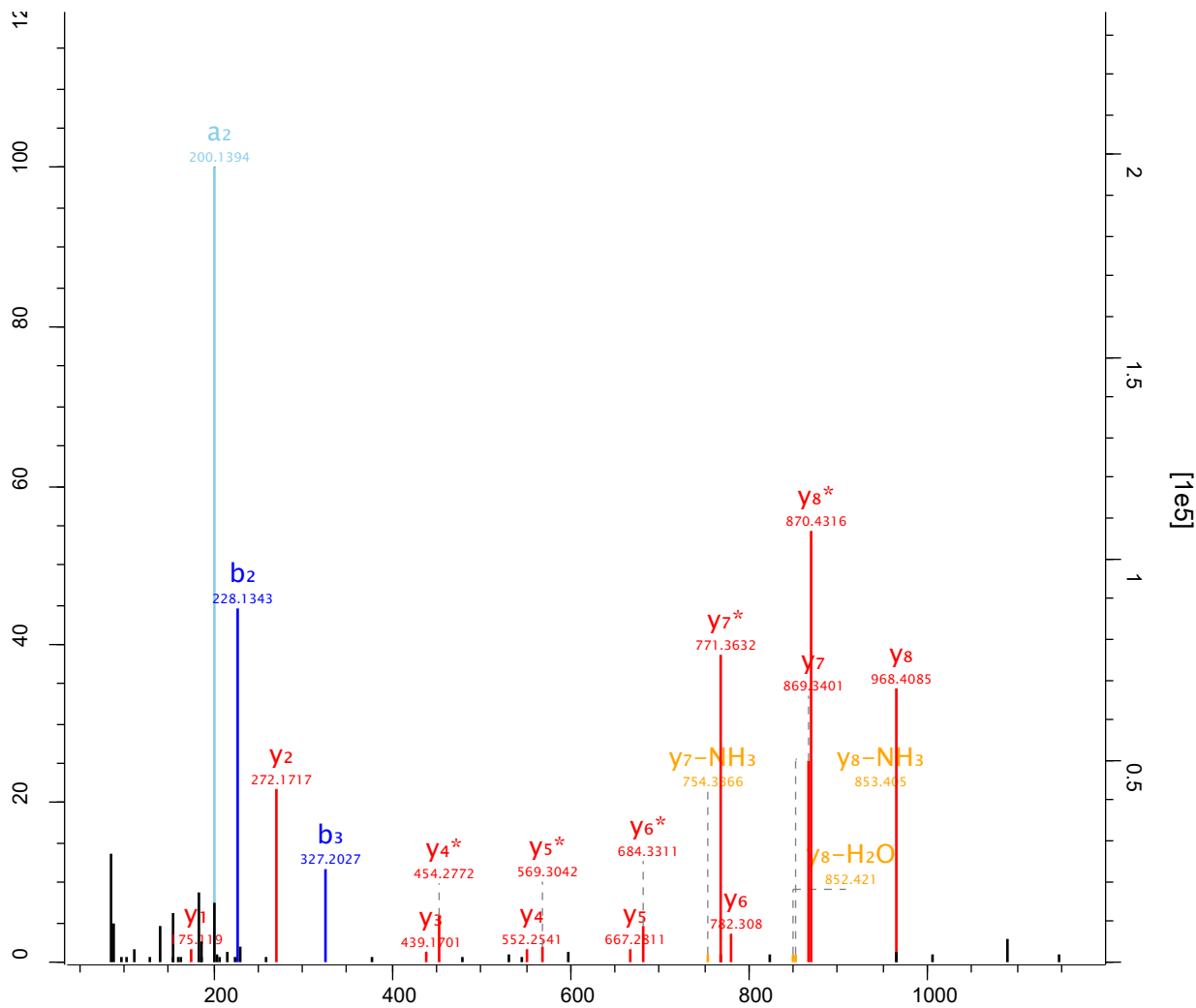
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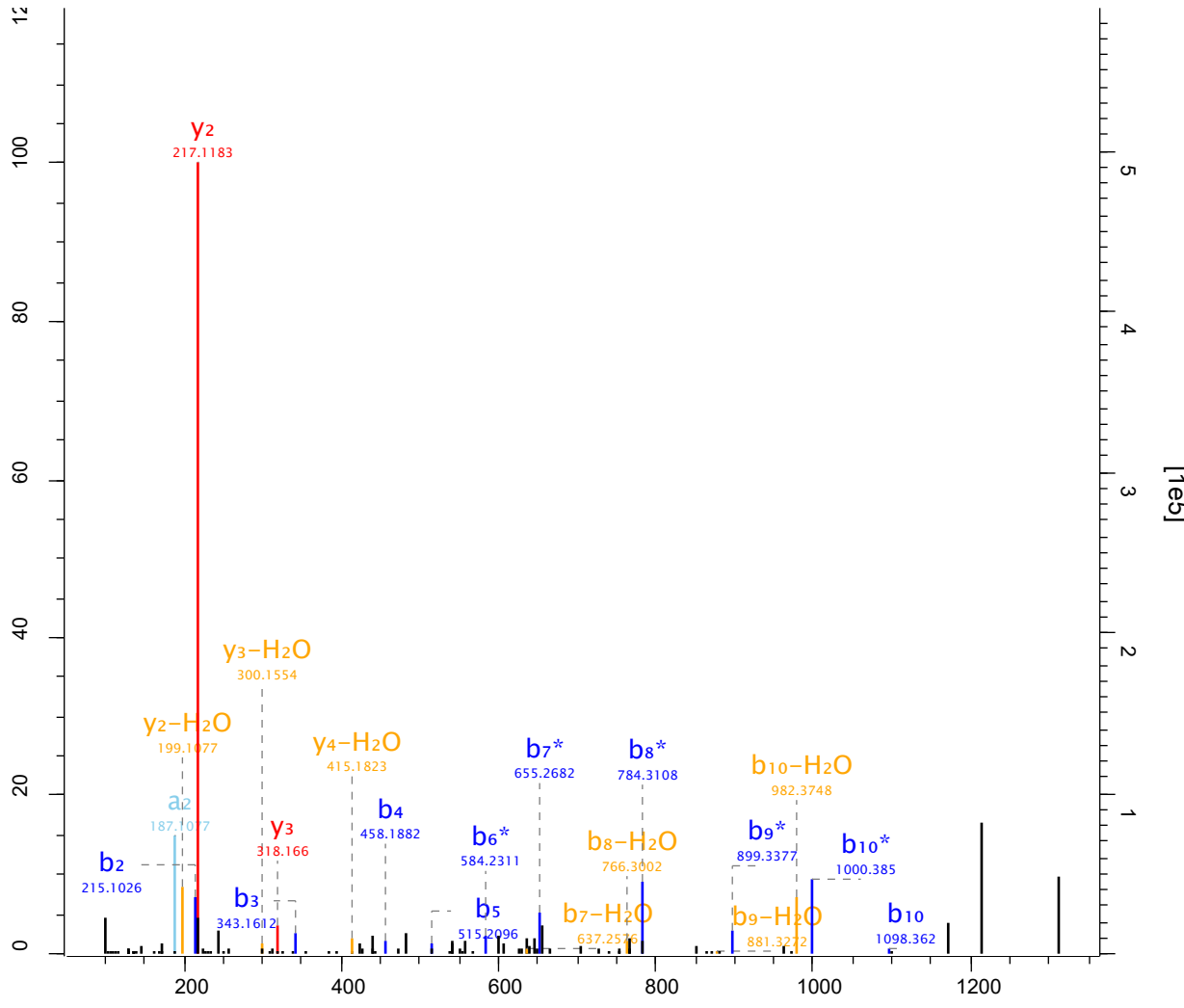
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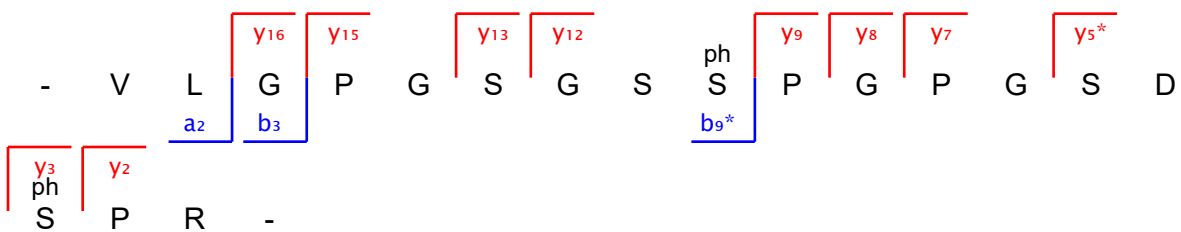
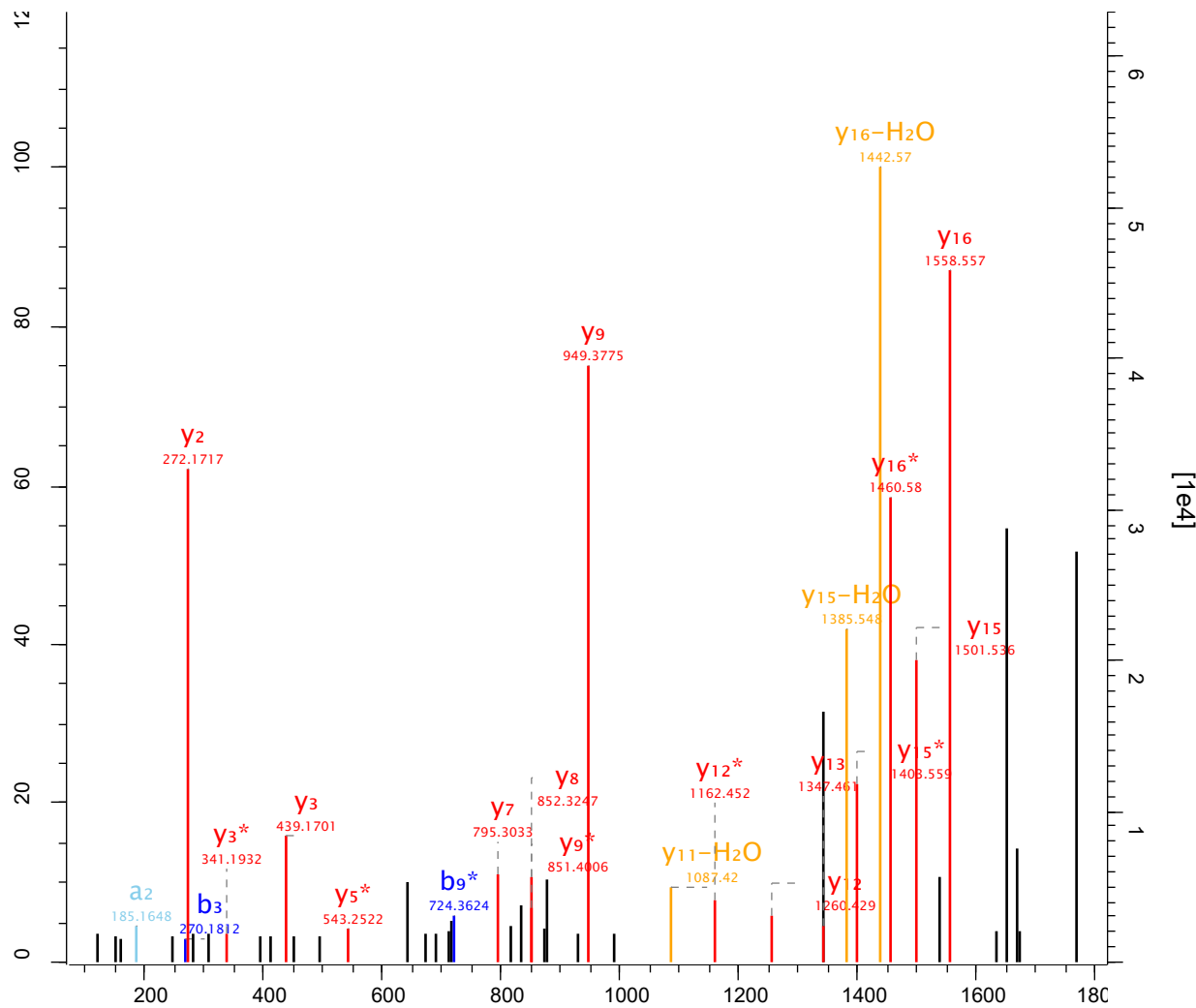


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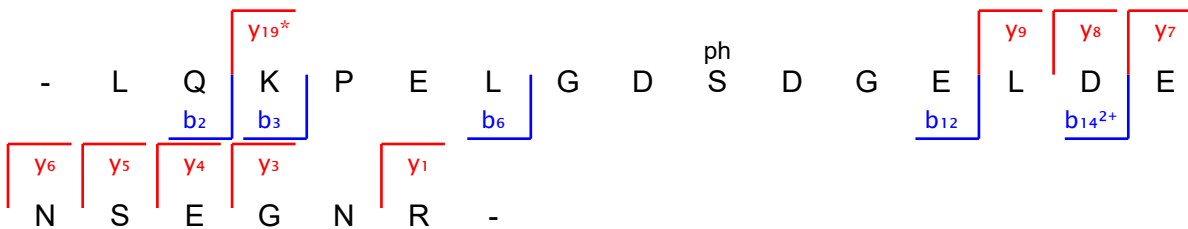
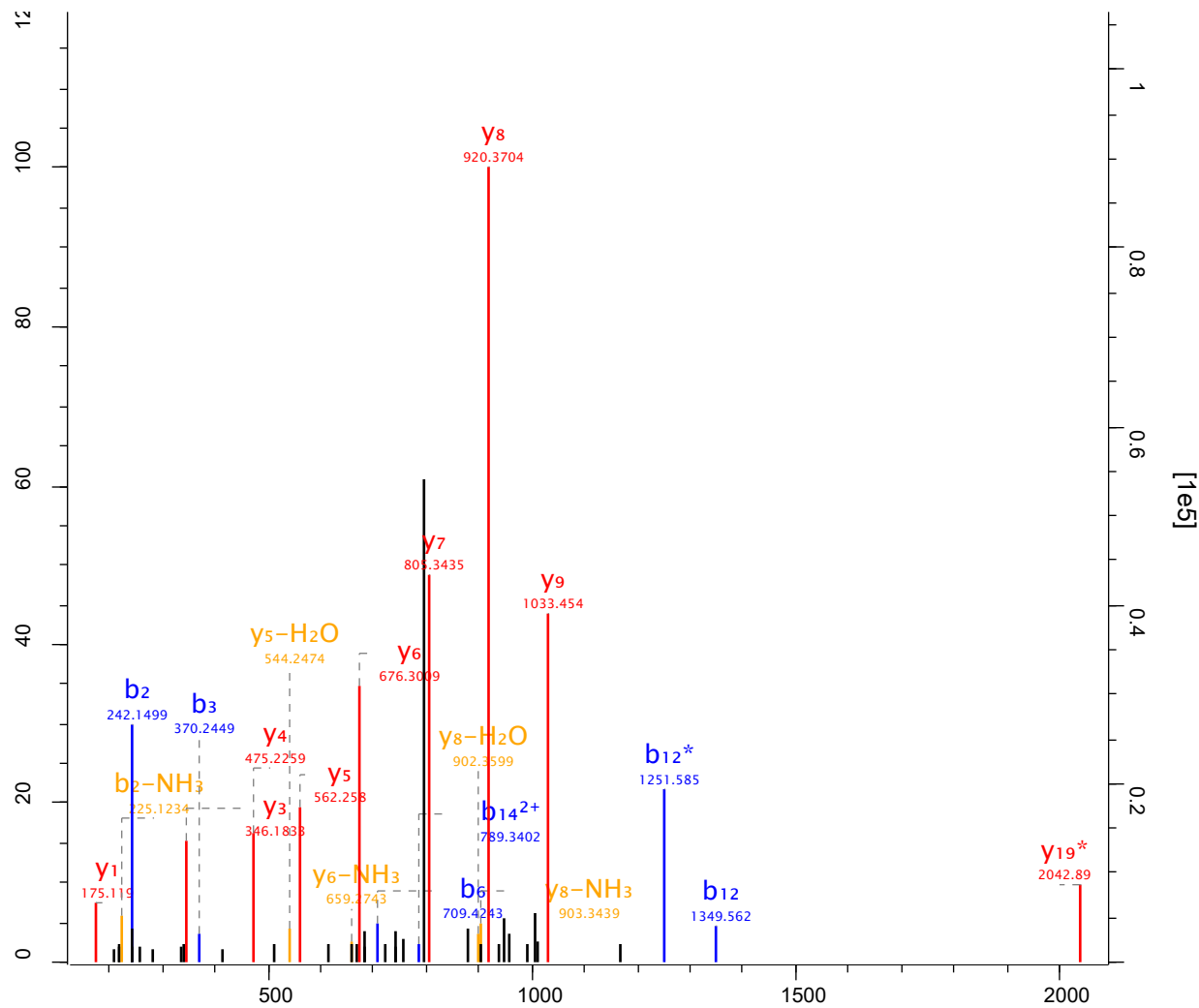


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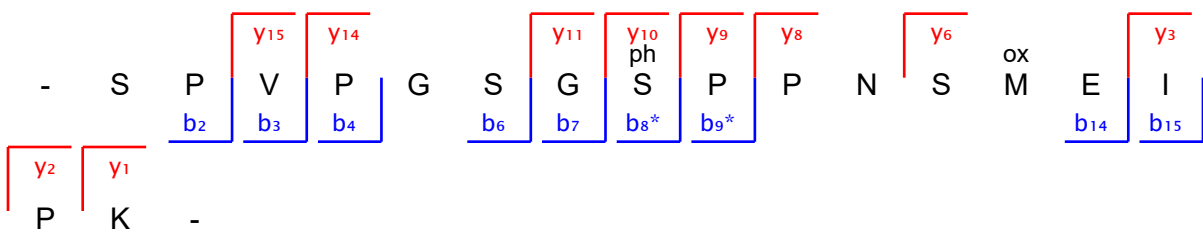
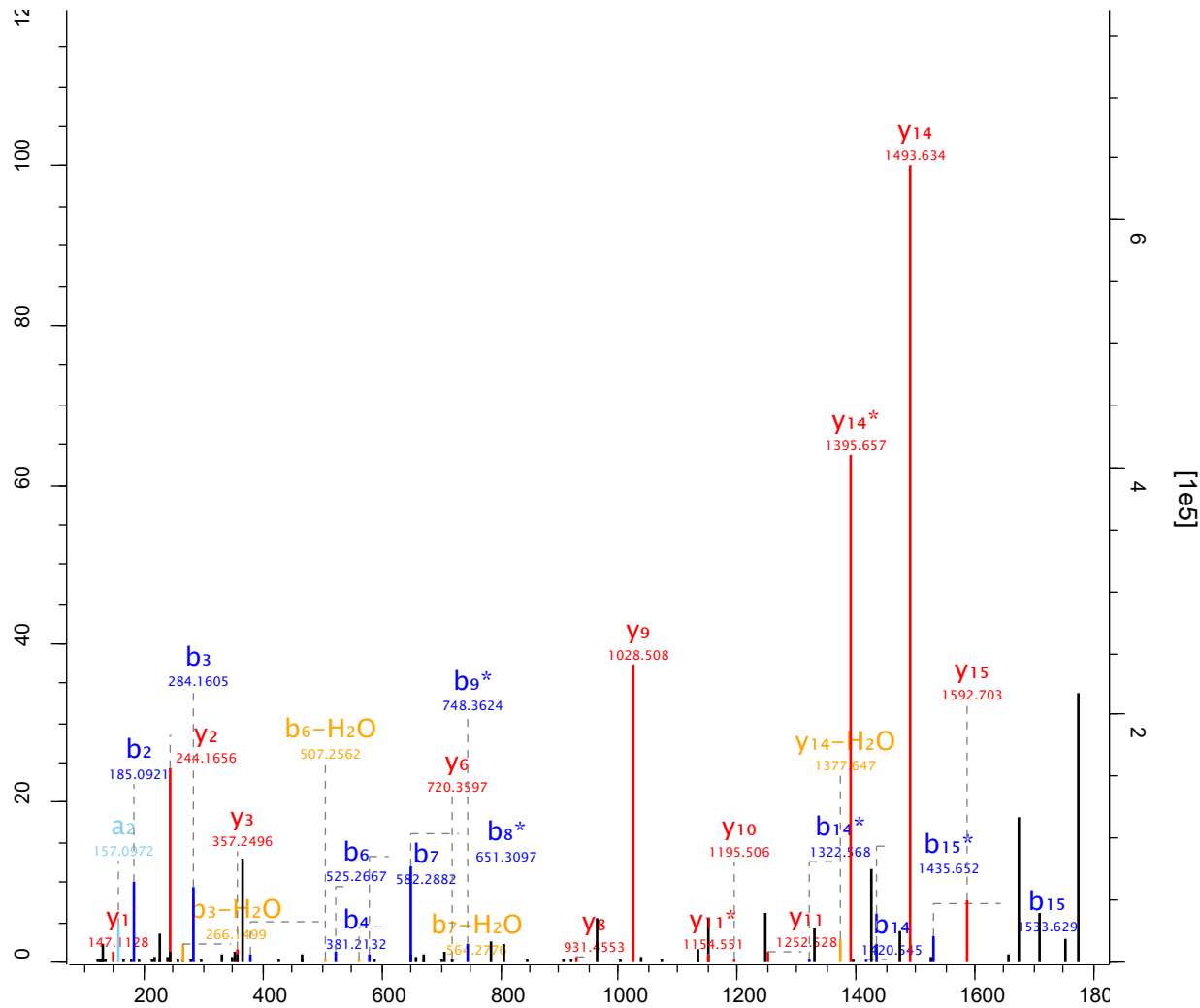


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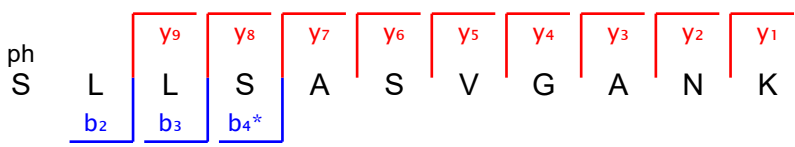
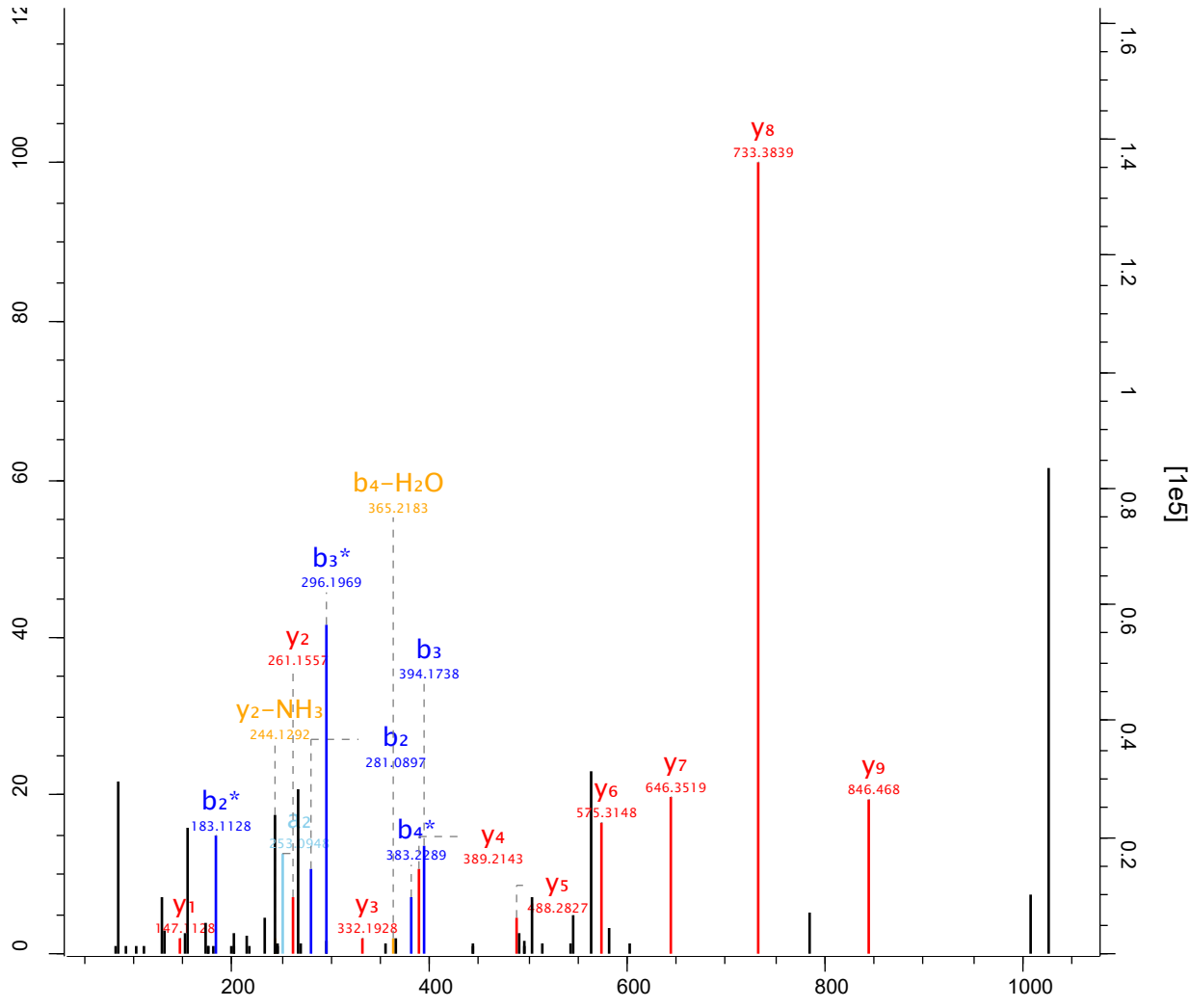




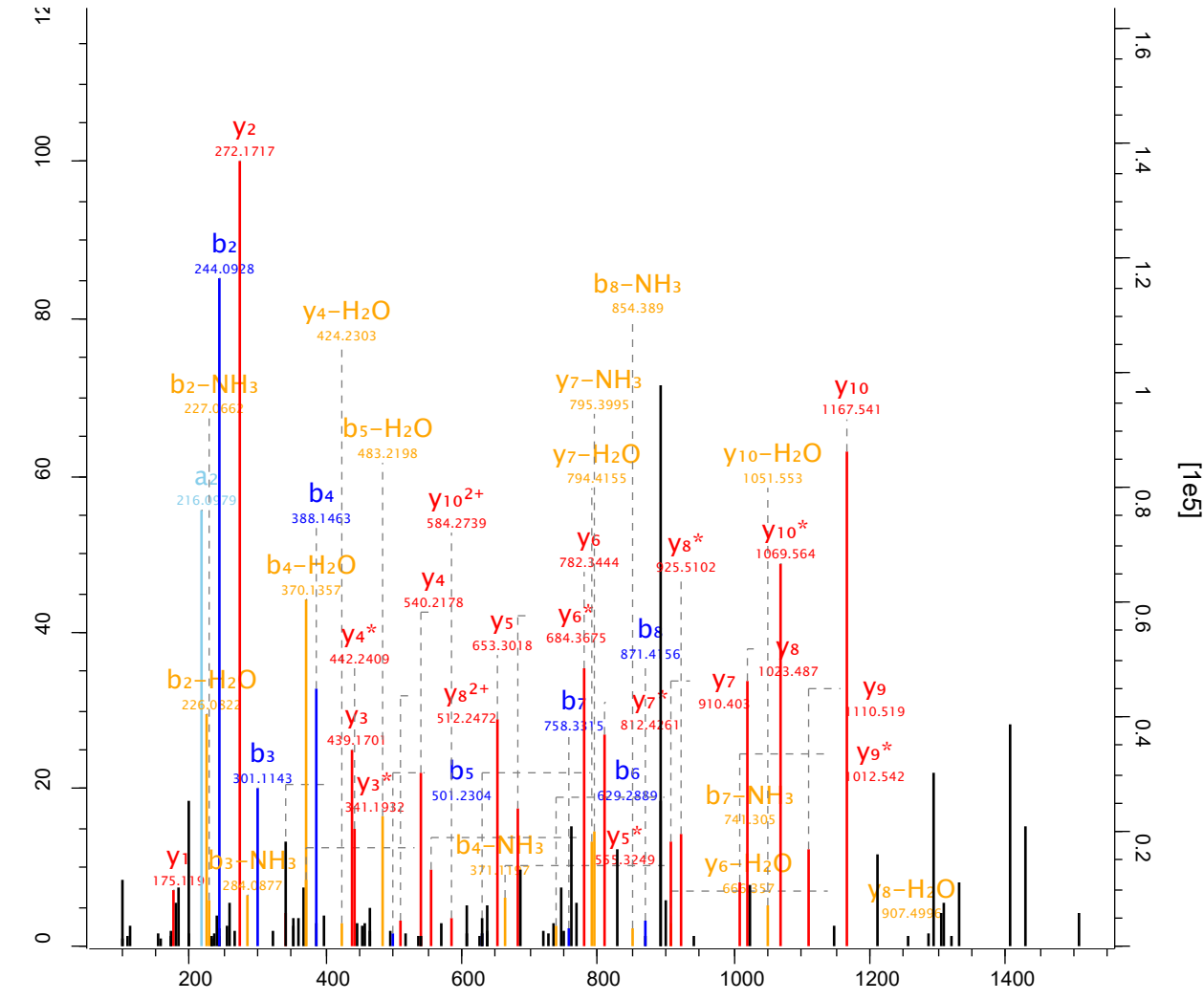
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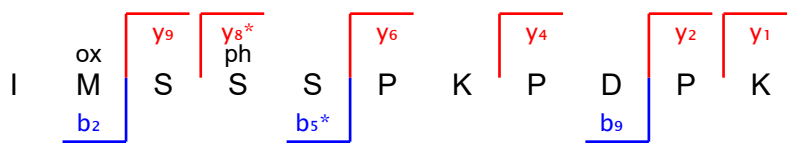
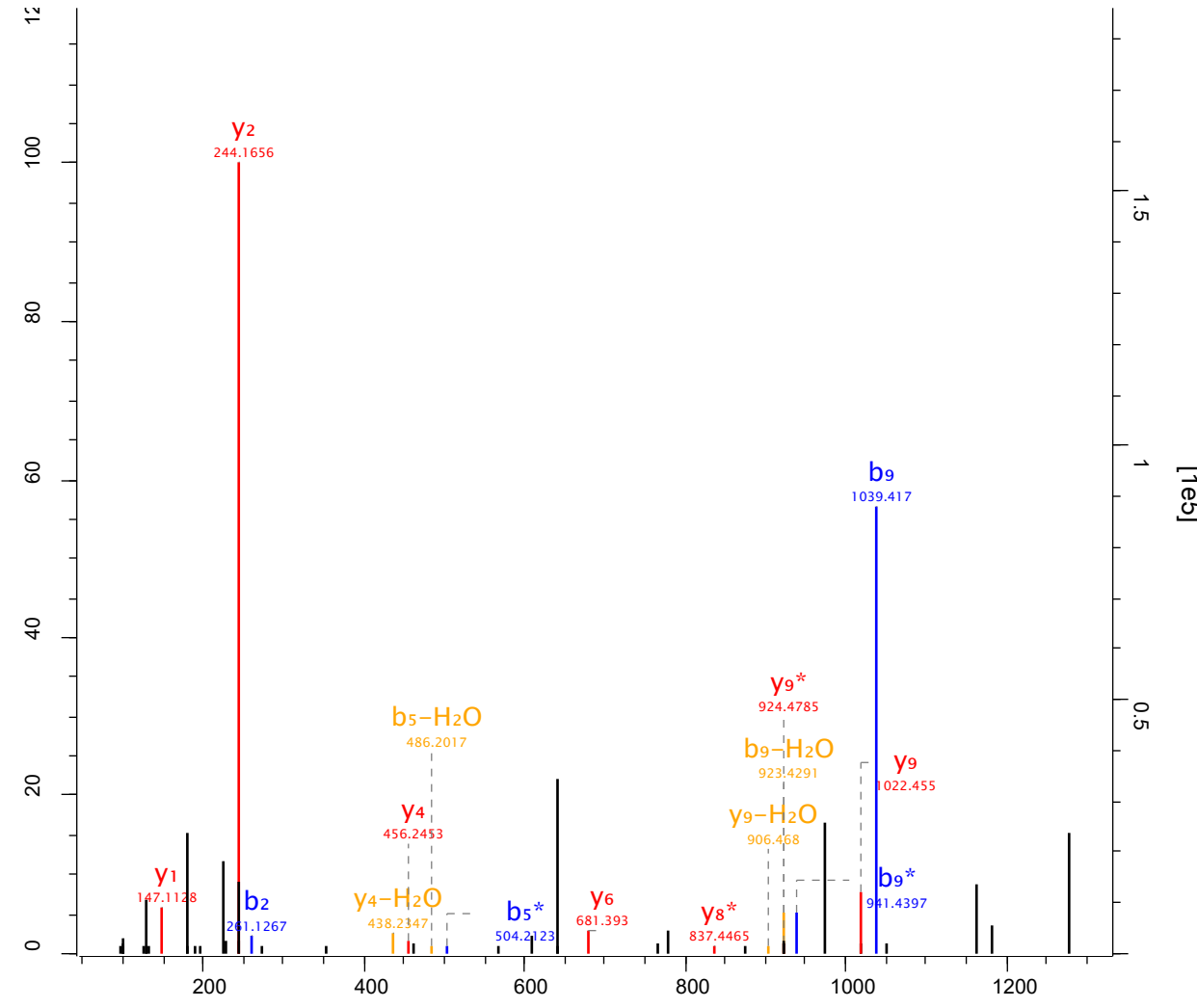
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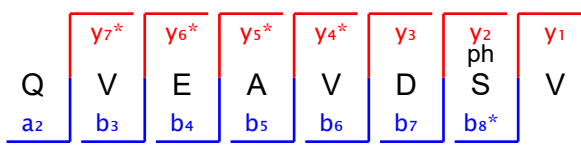
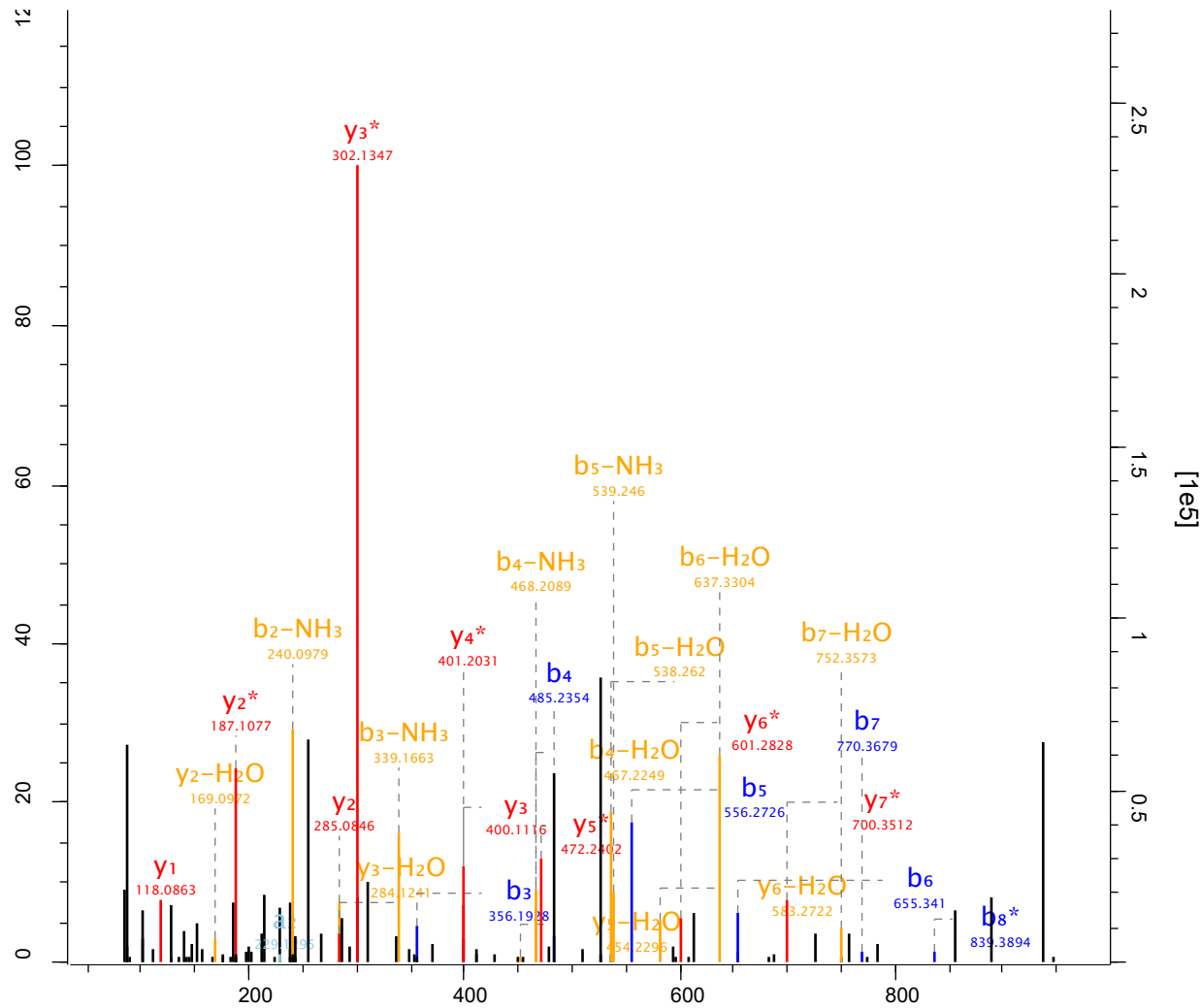
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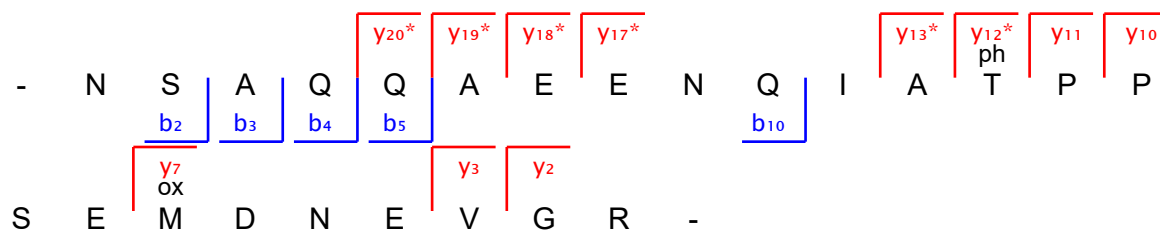
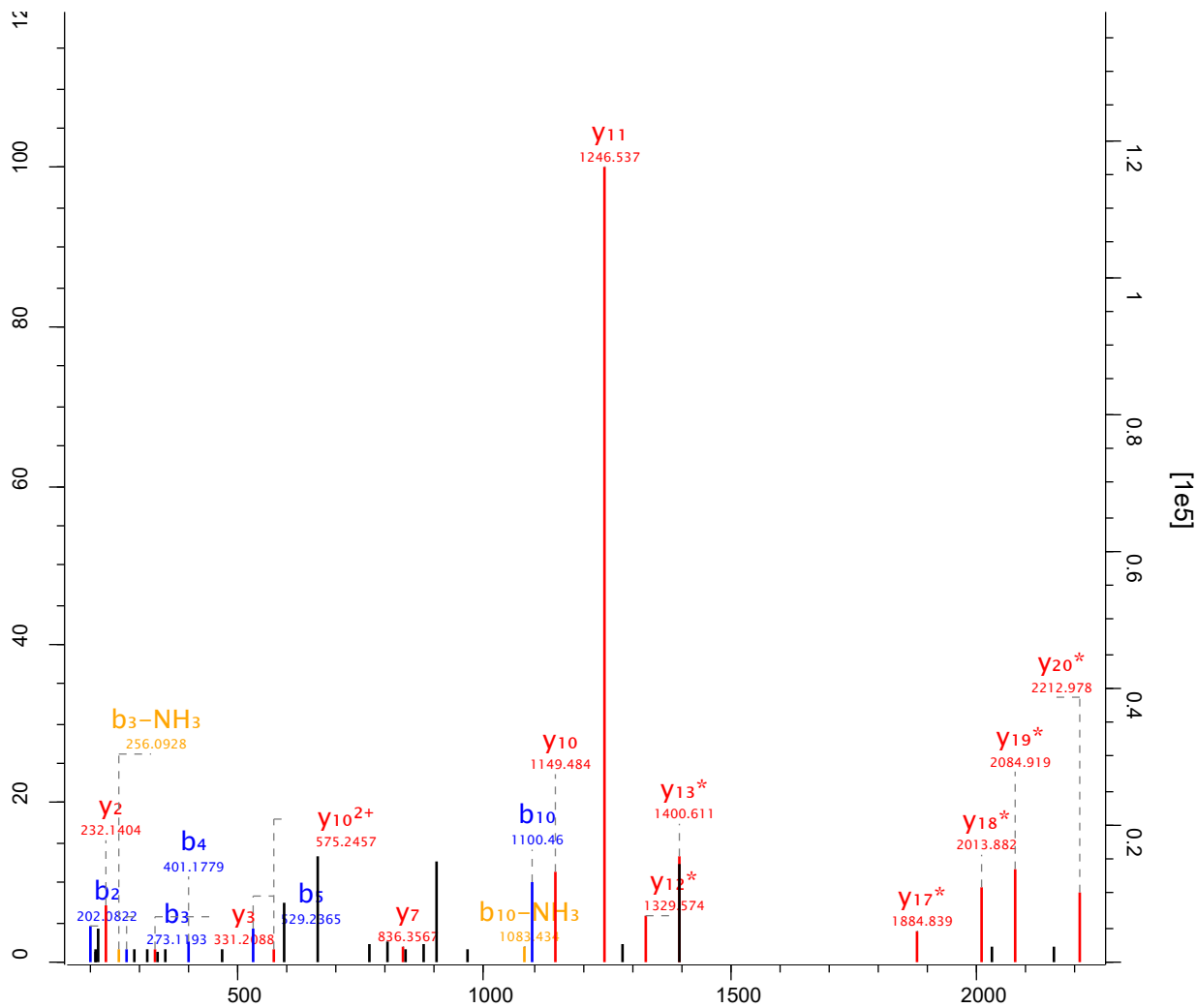
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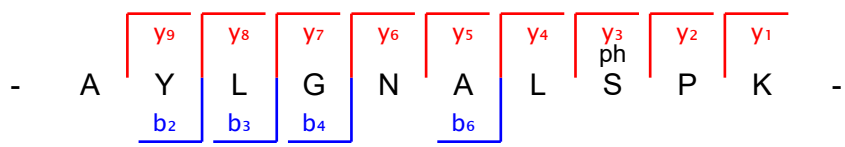
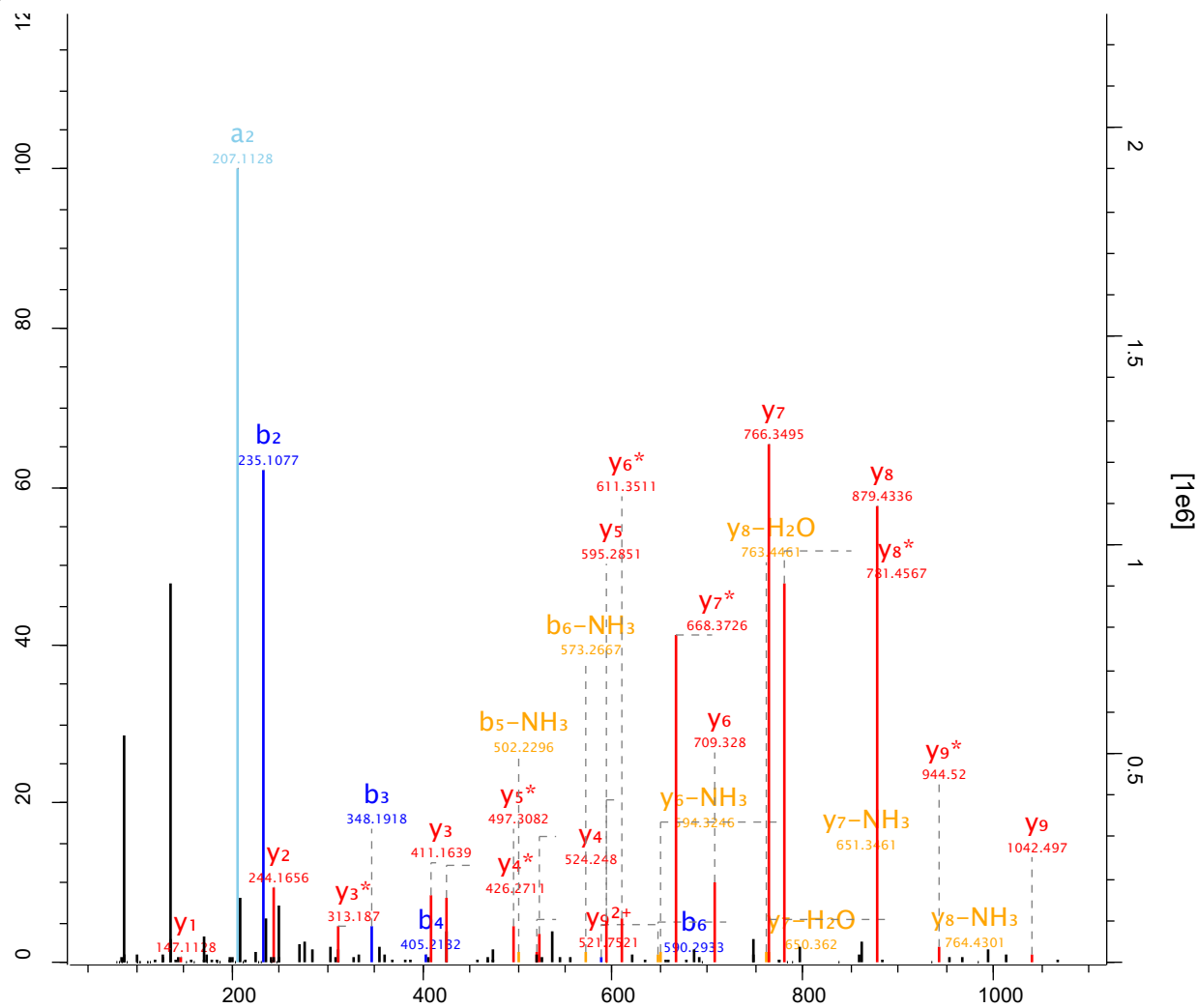
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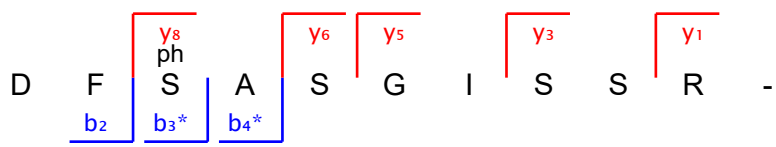
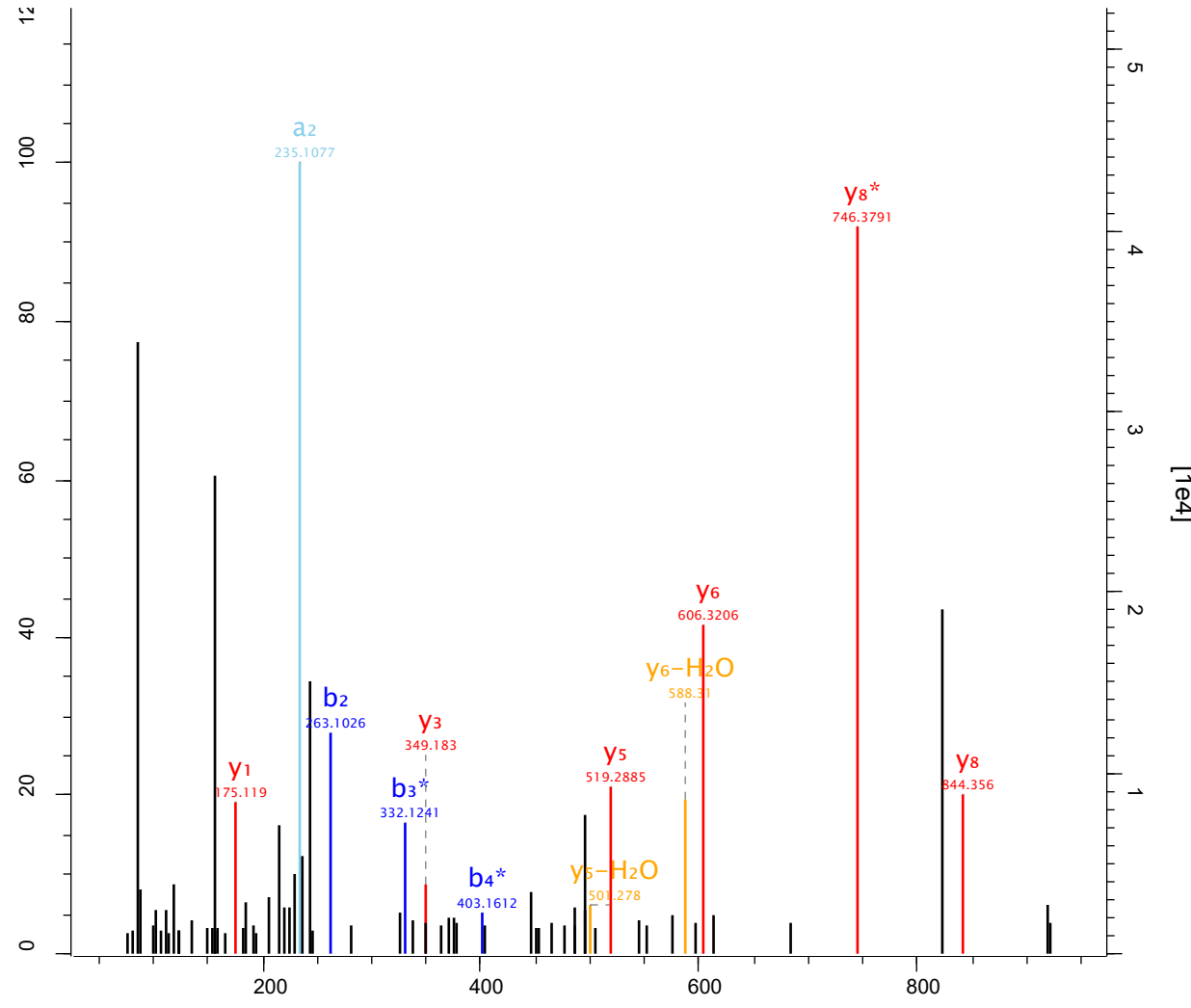
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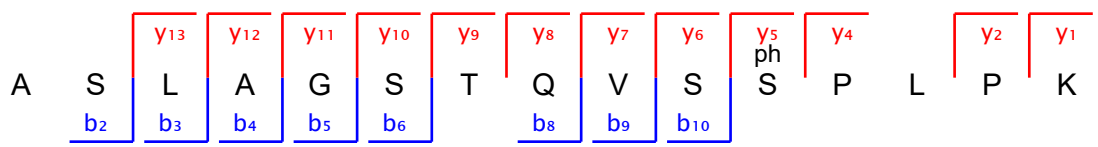
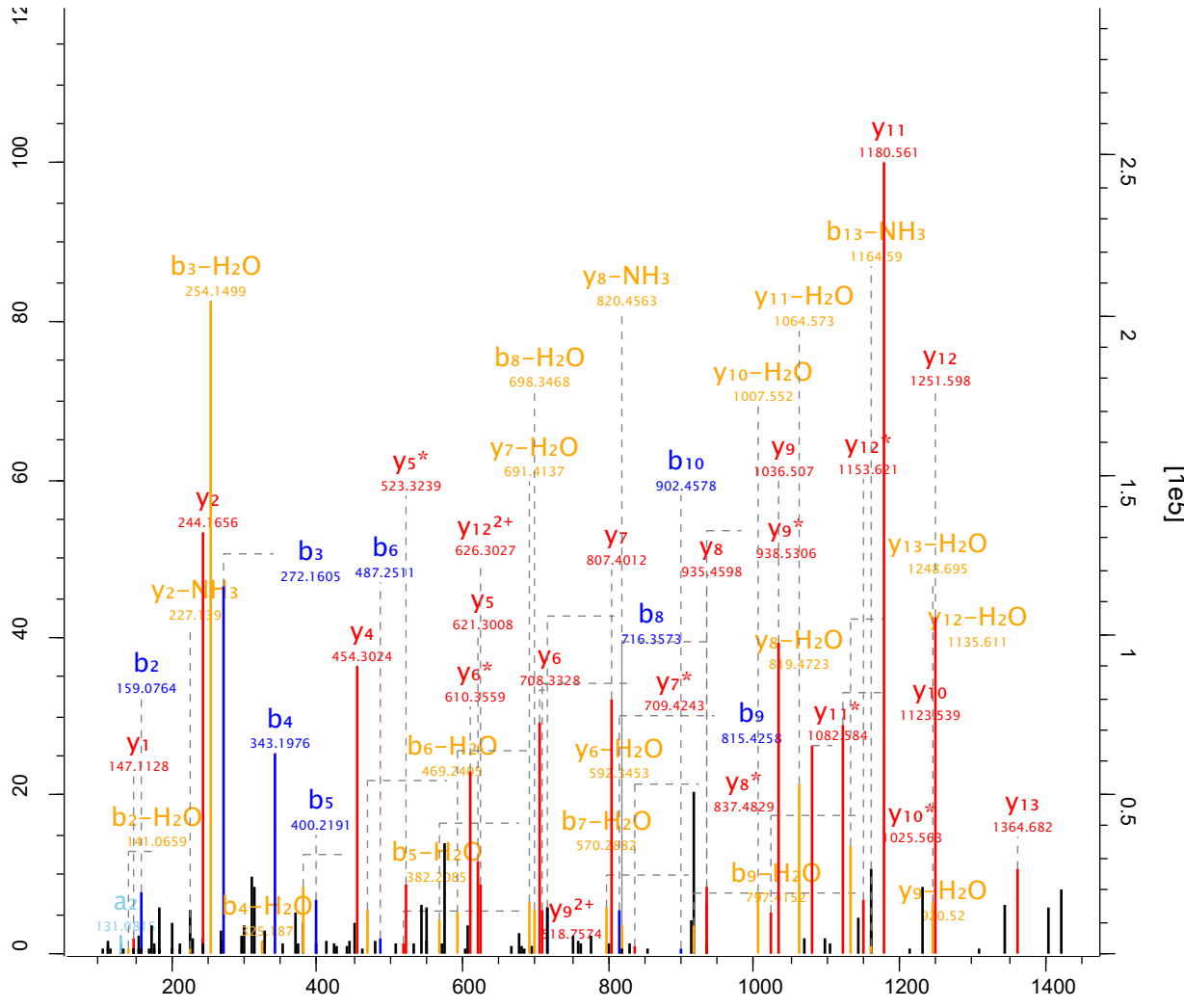


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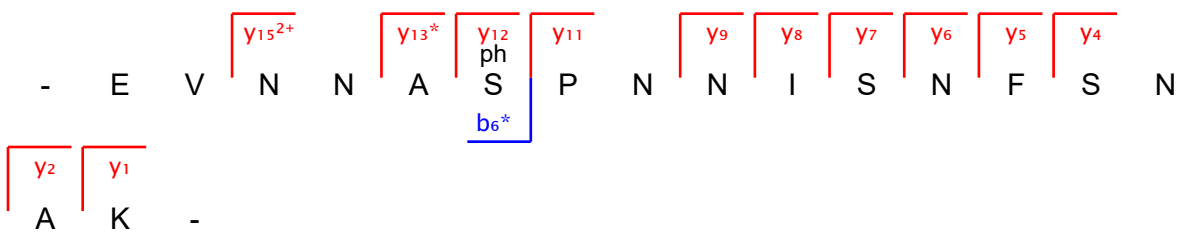
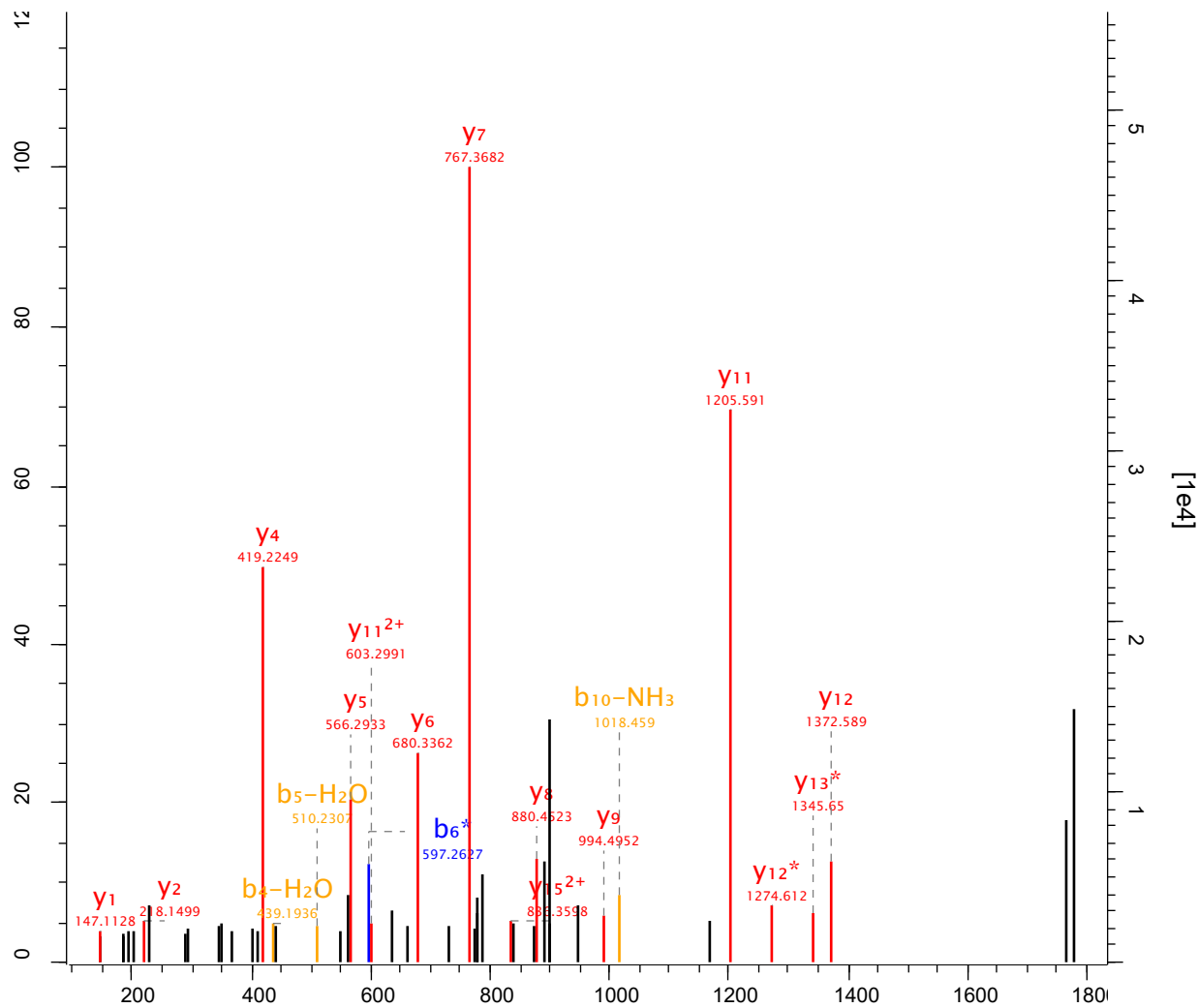




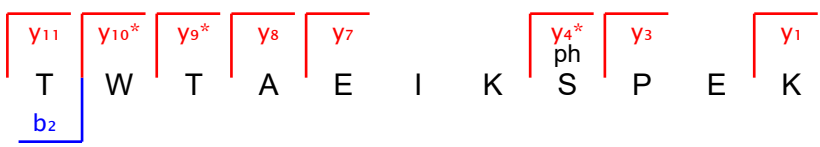
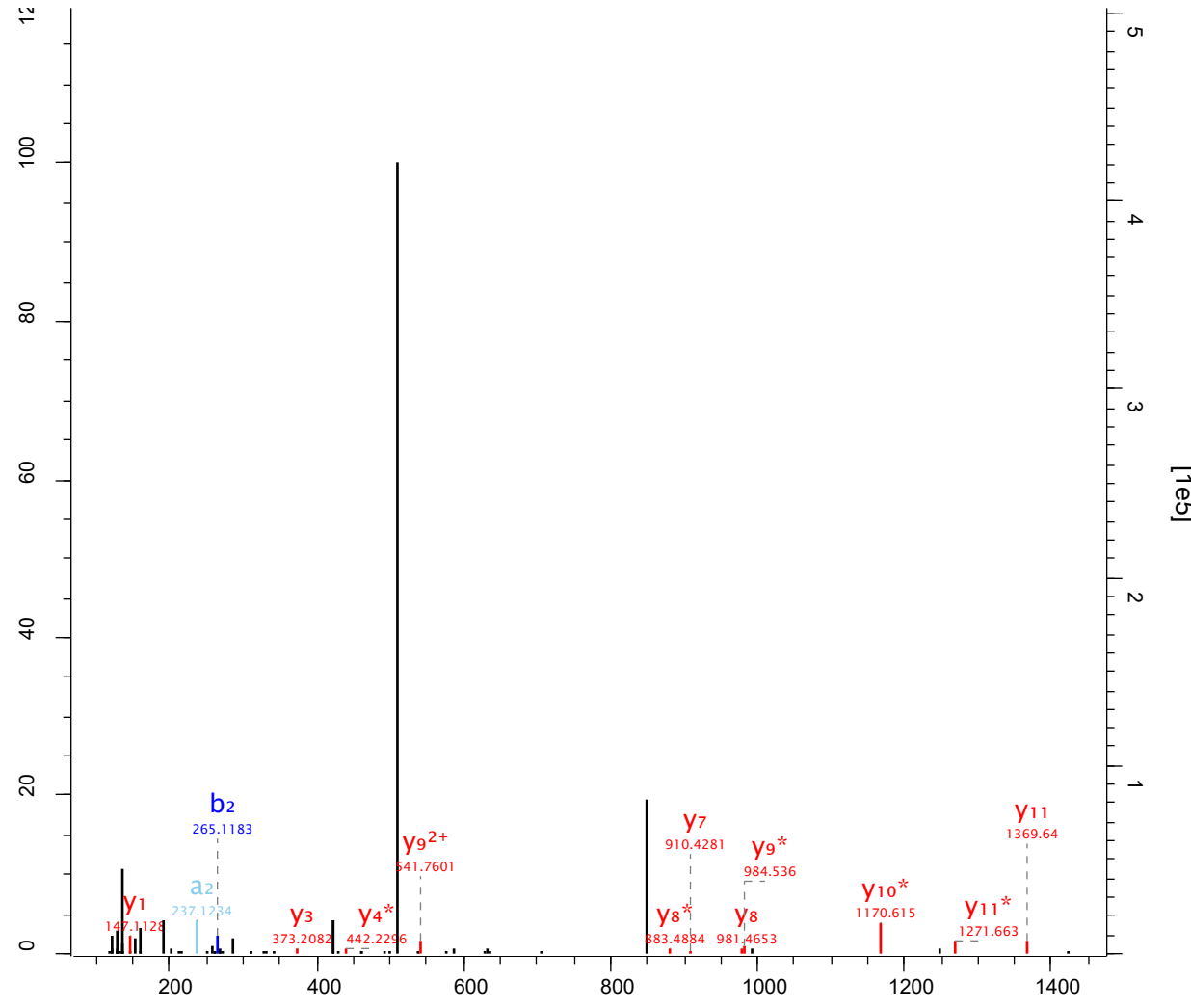
Raw file Scan Method Score m/z  
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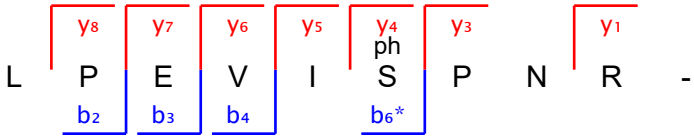
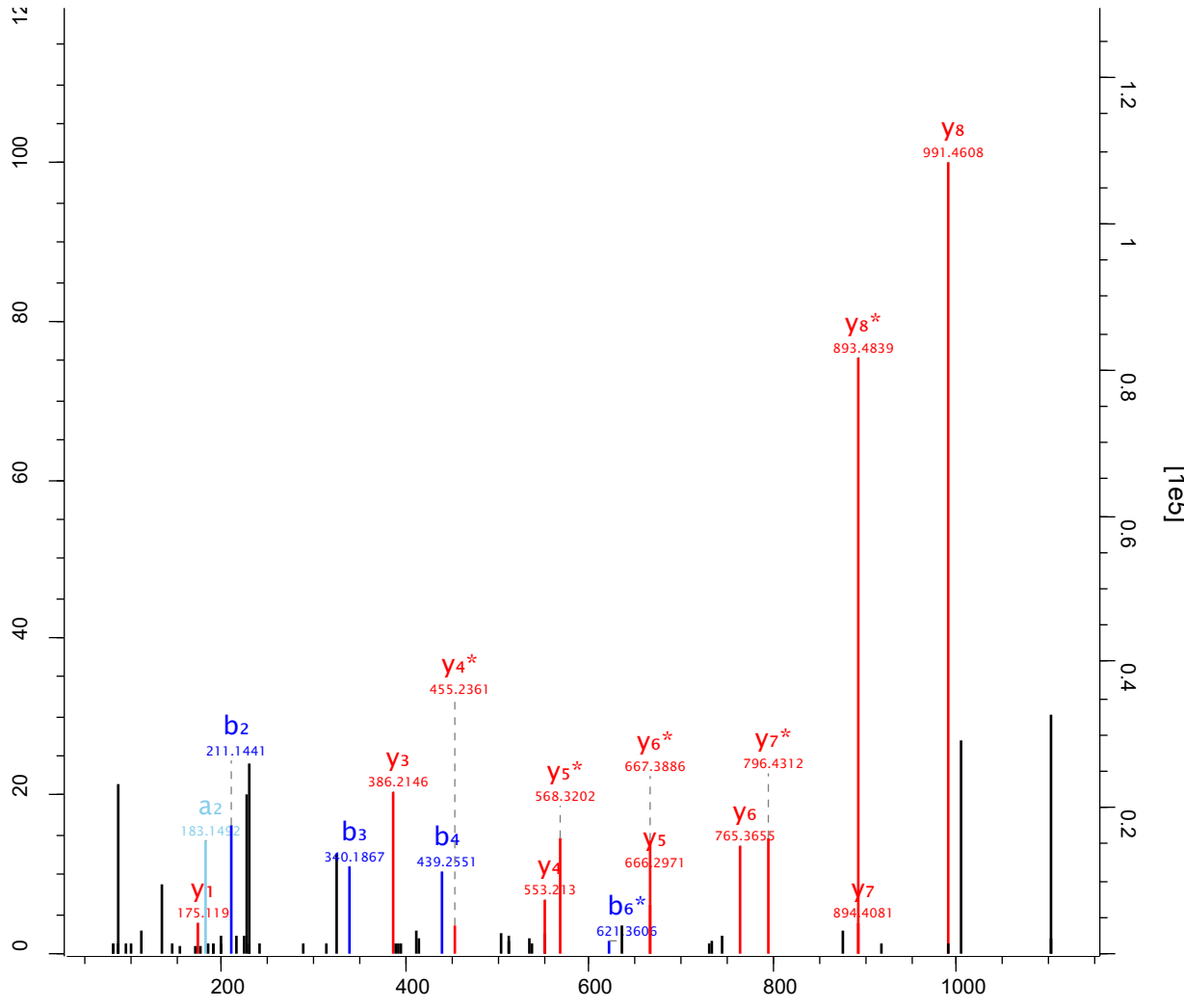
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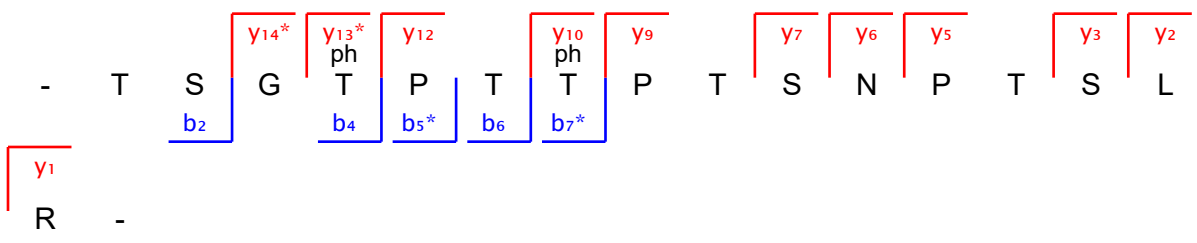
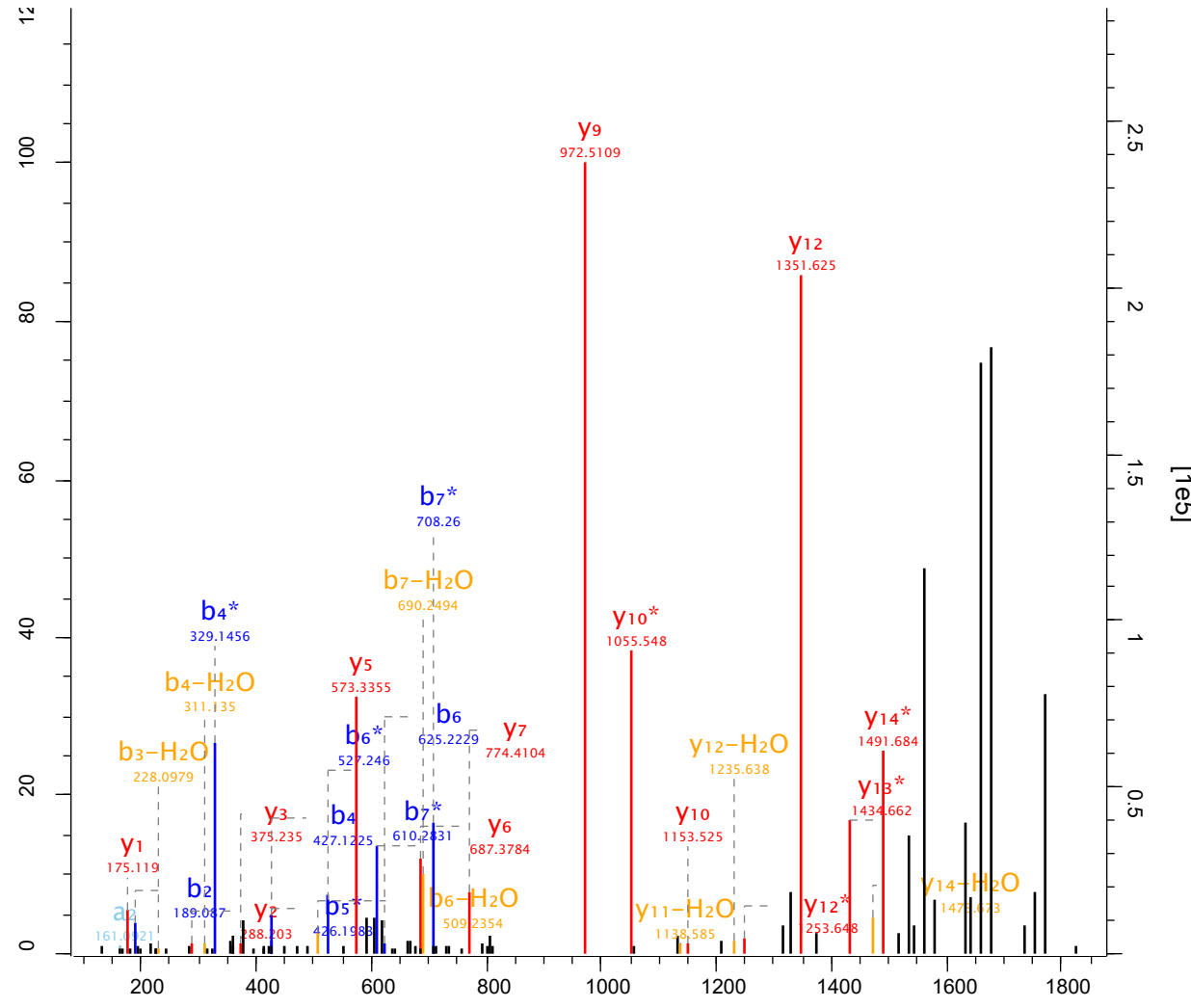
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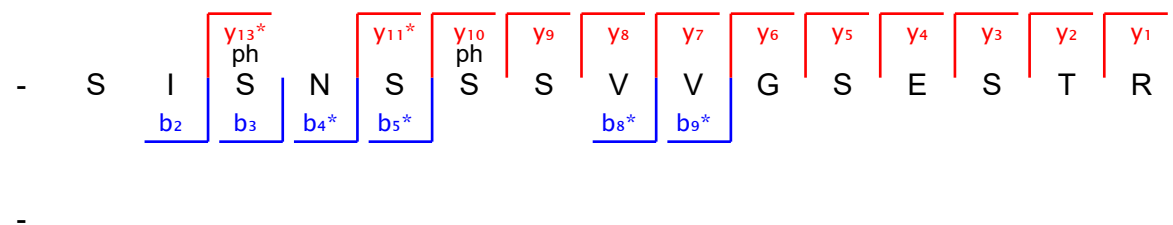
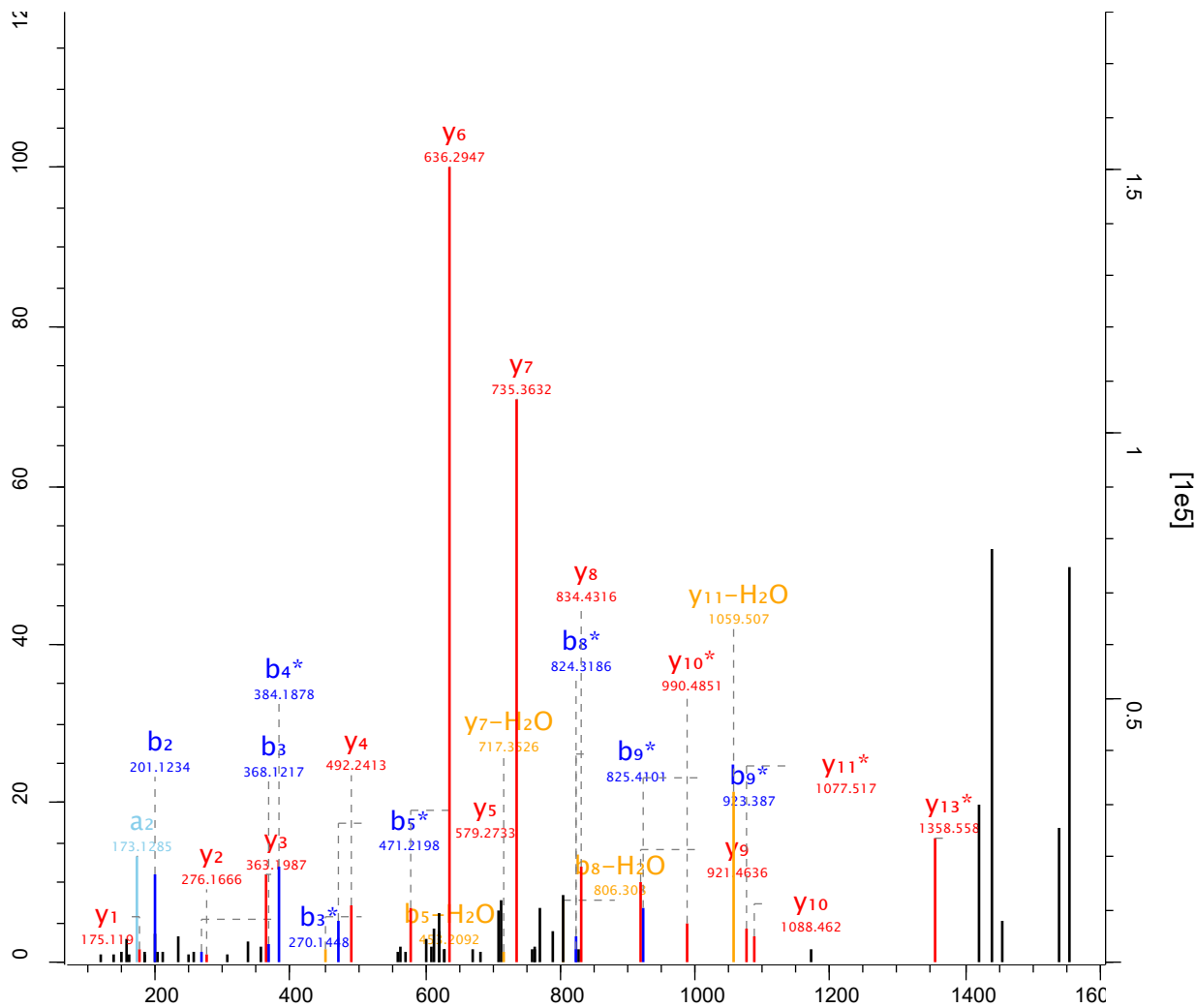
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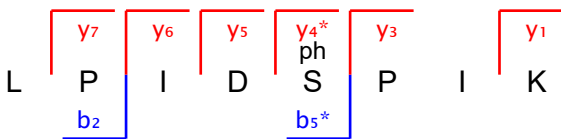
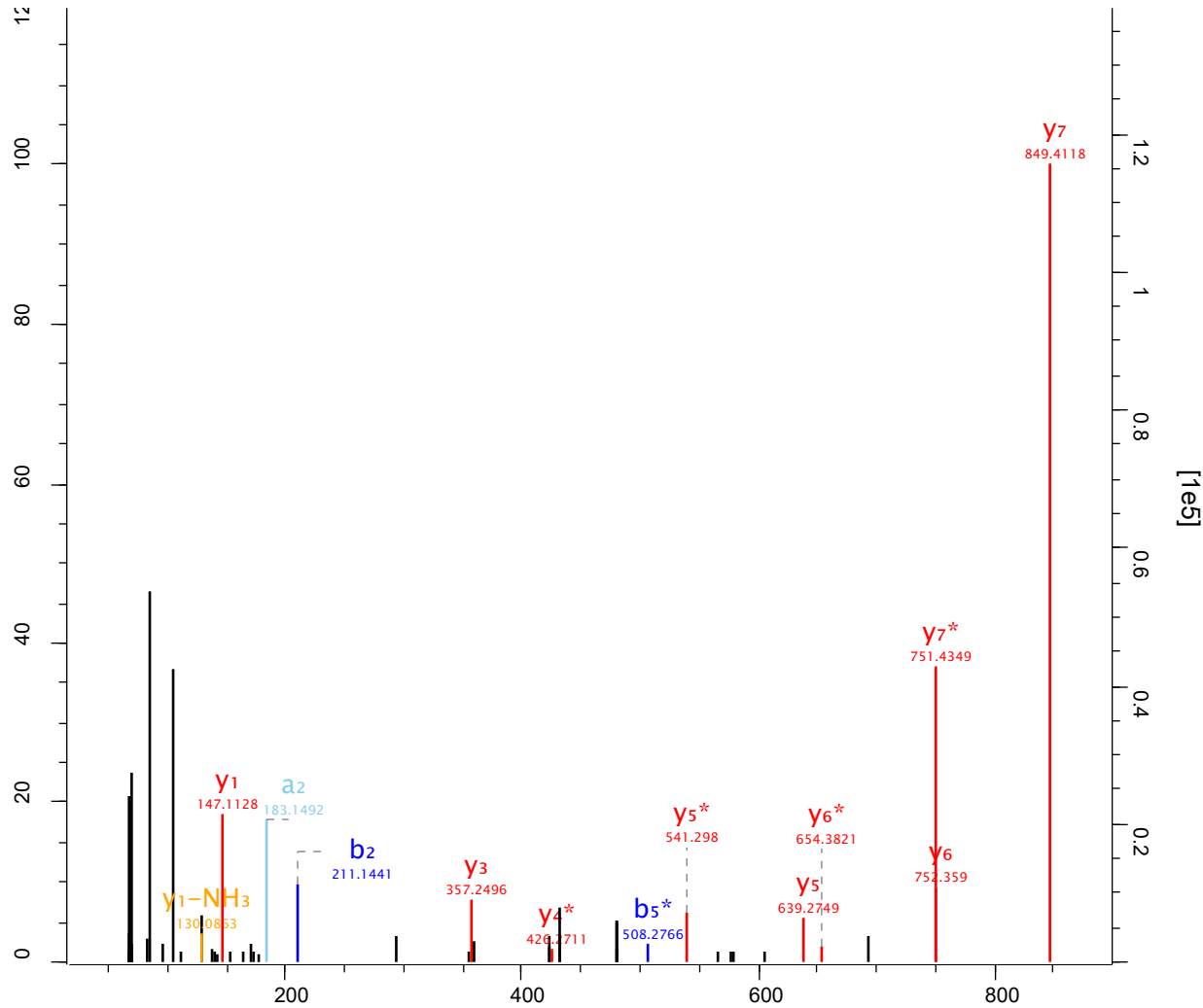
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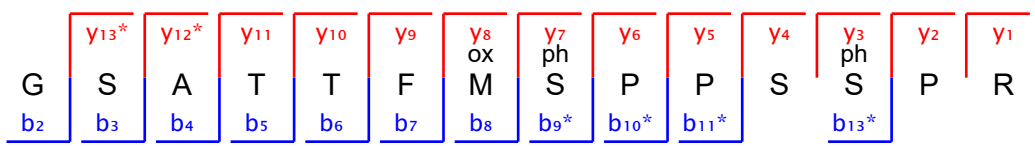
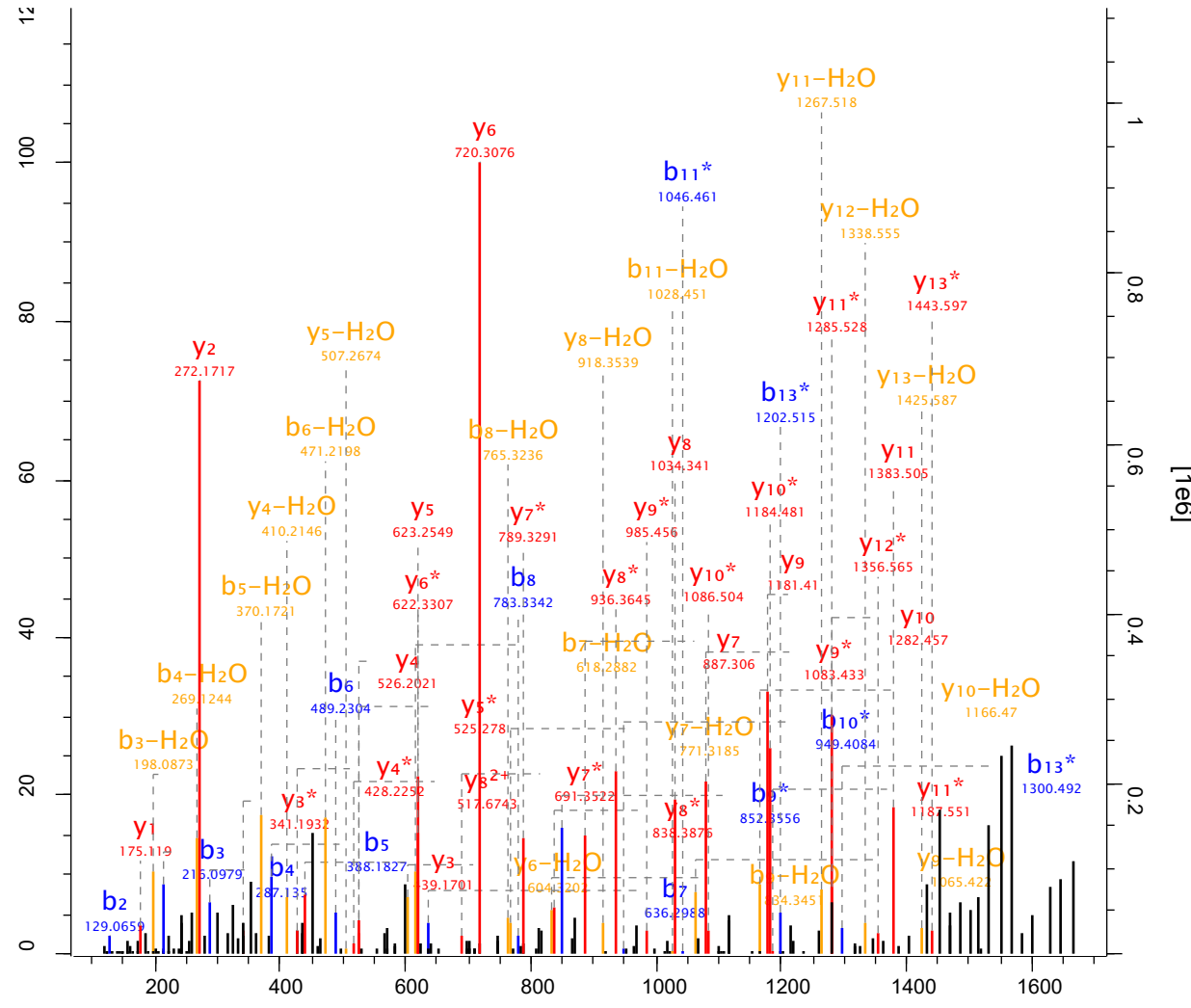
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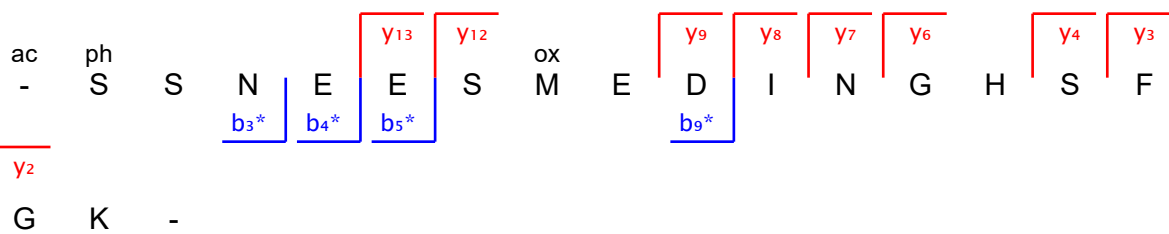
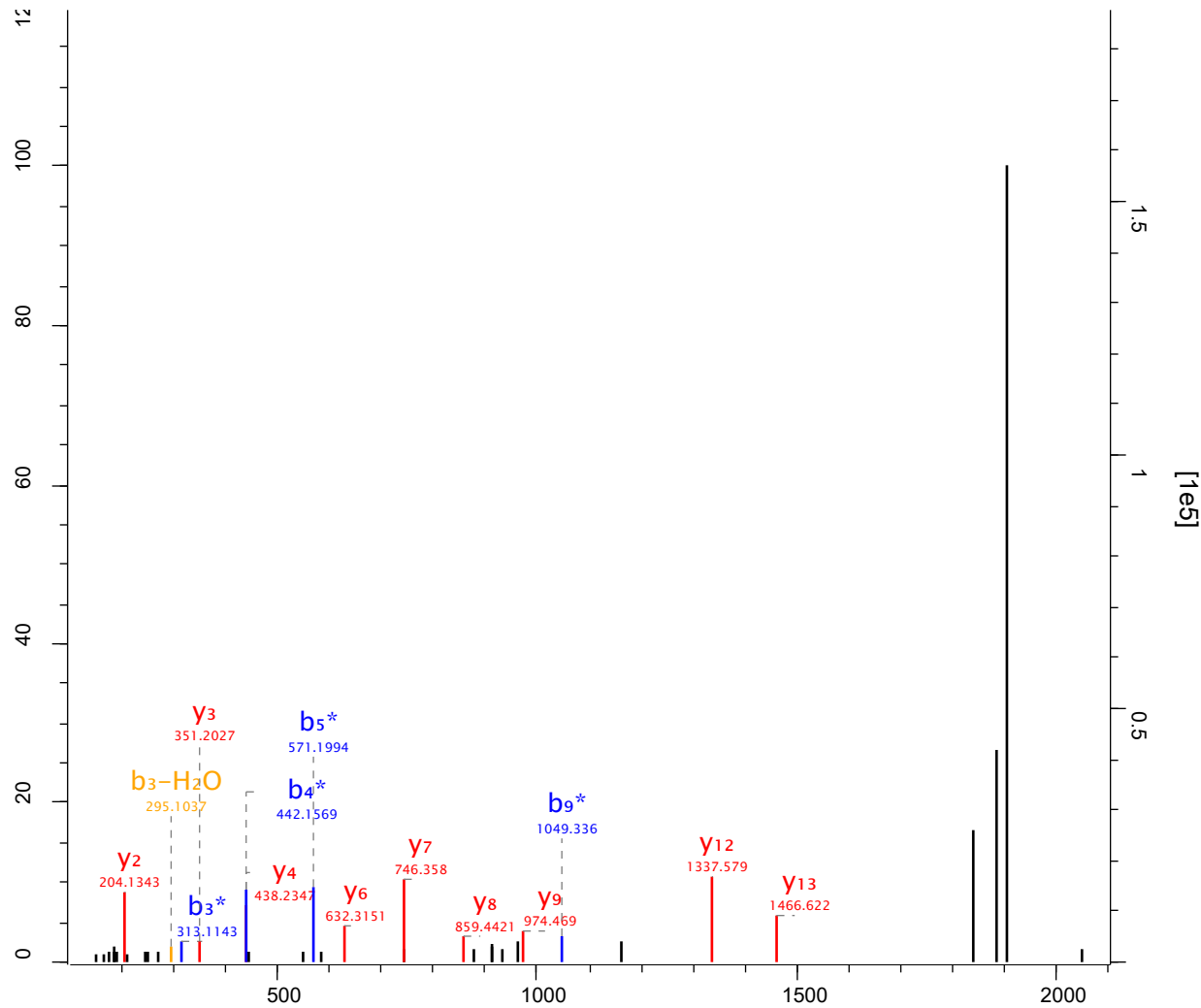


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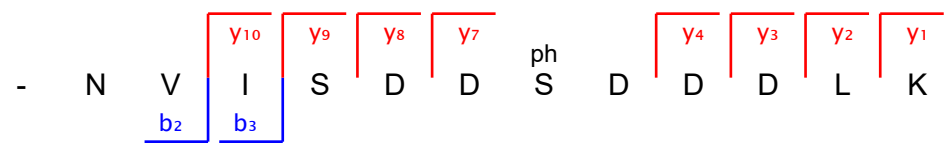
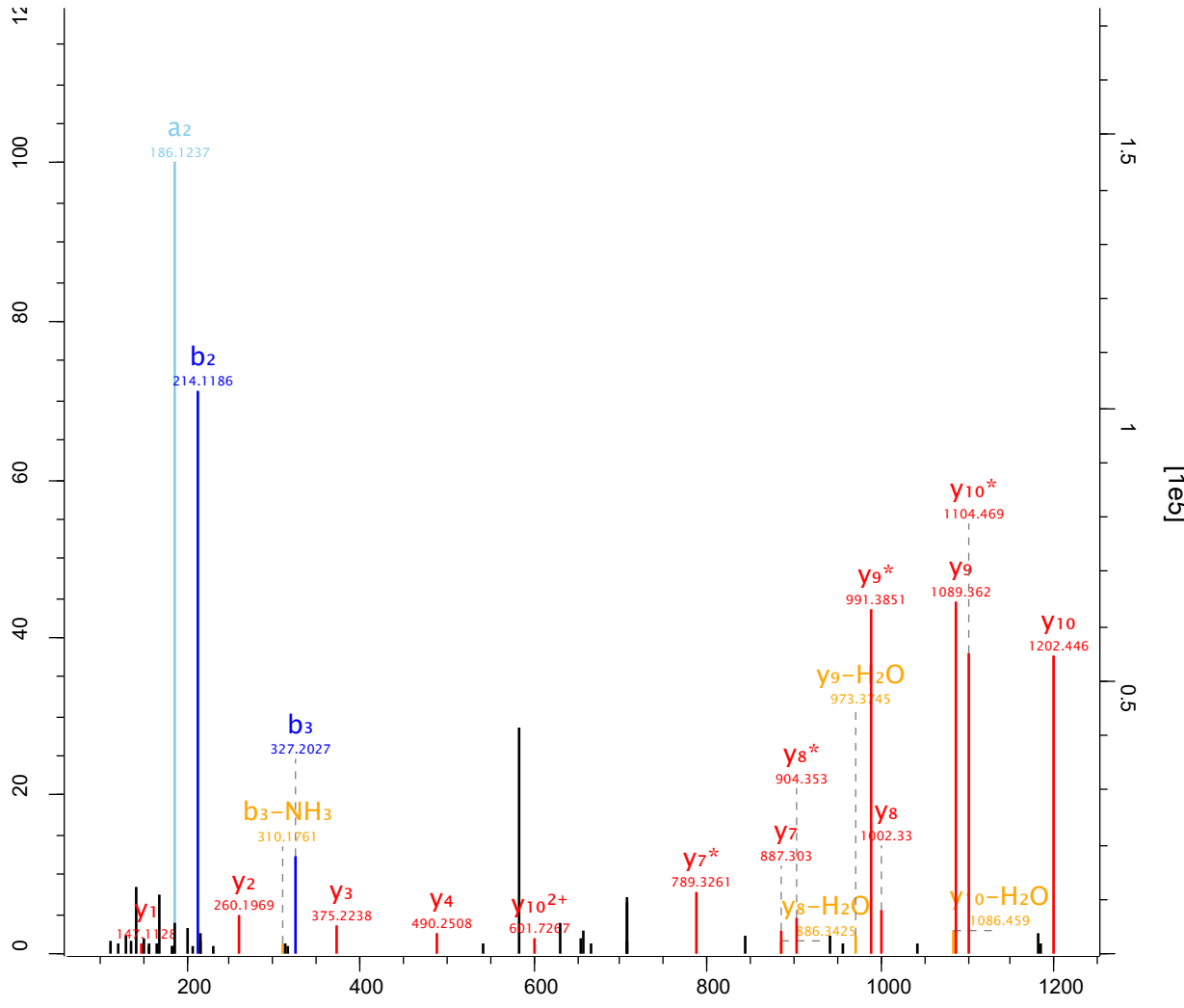




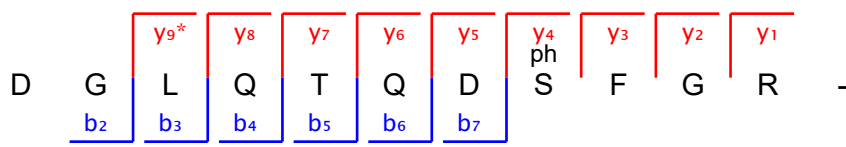
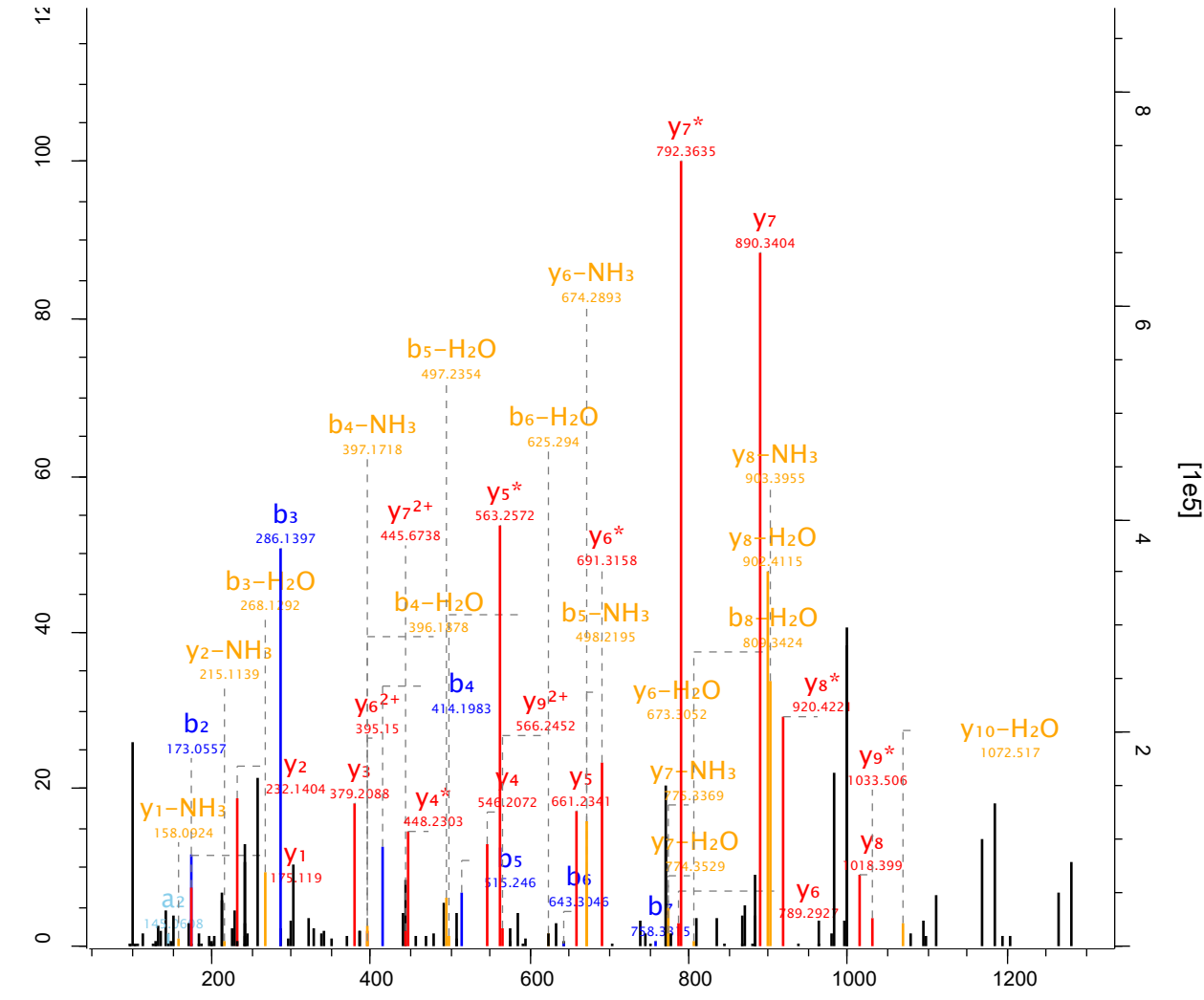
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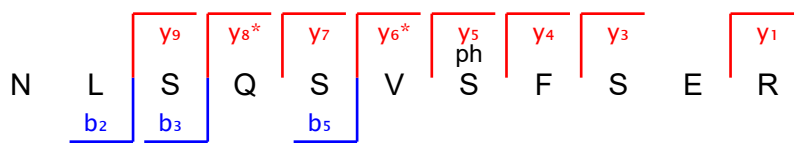
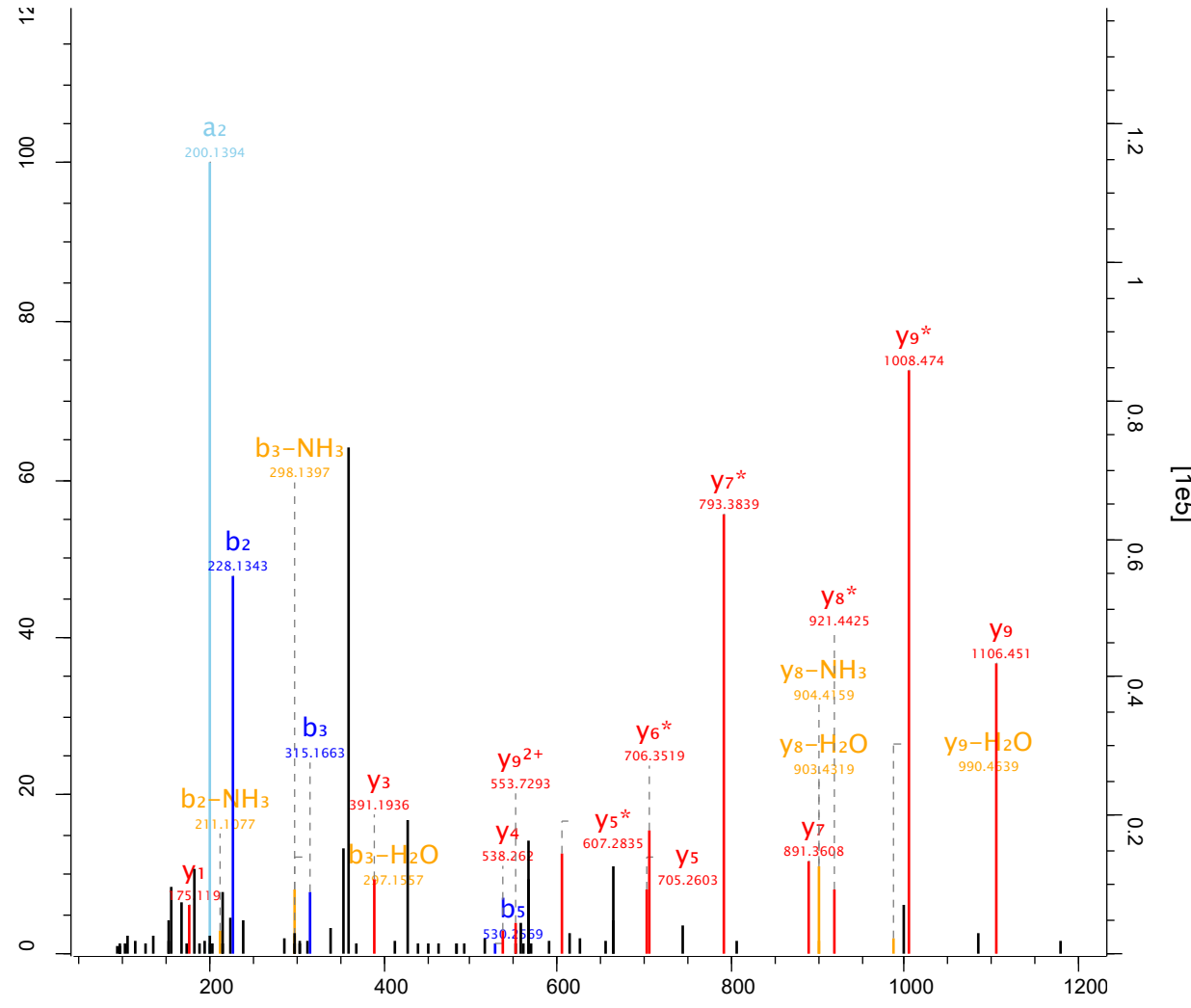
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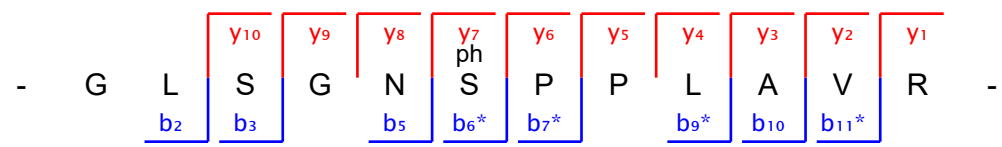
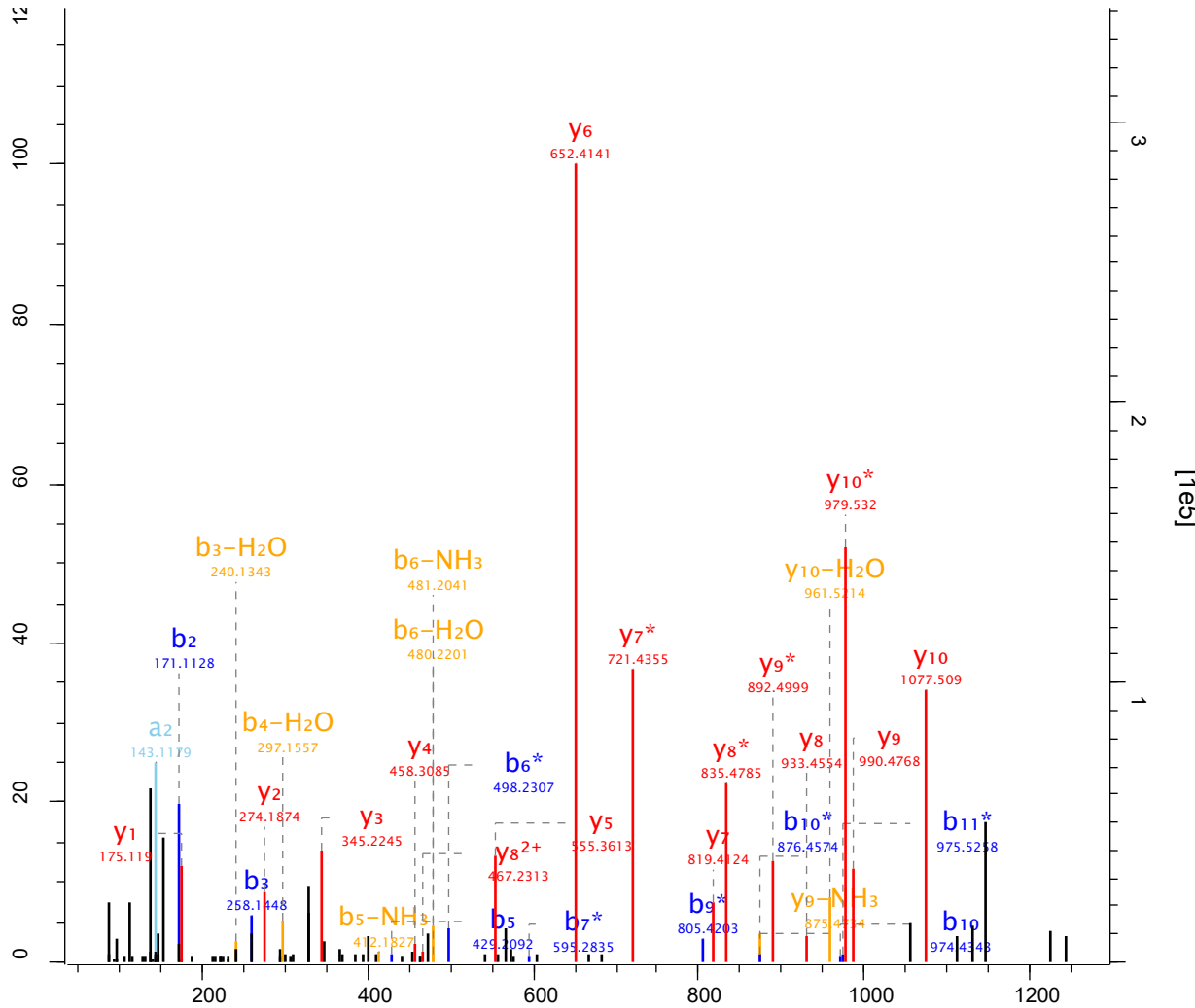
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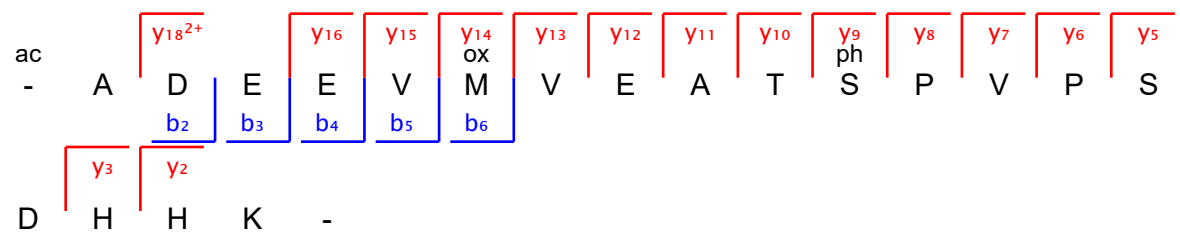
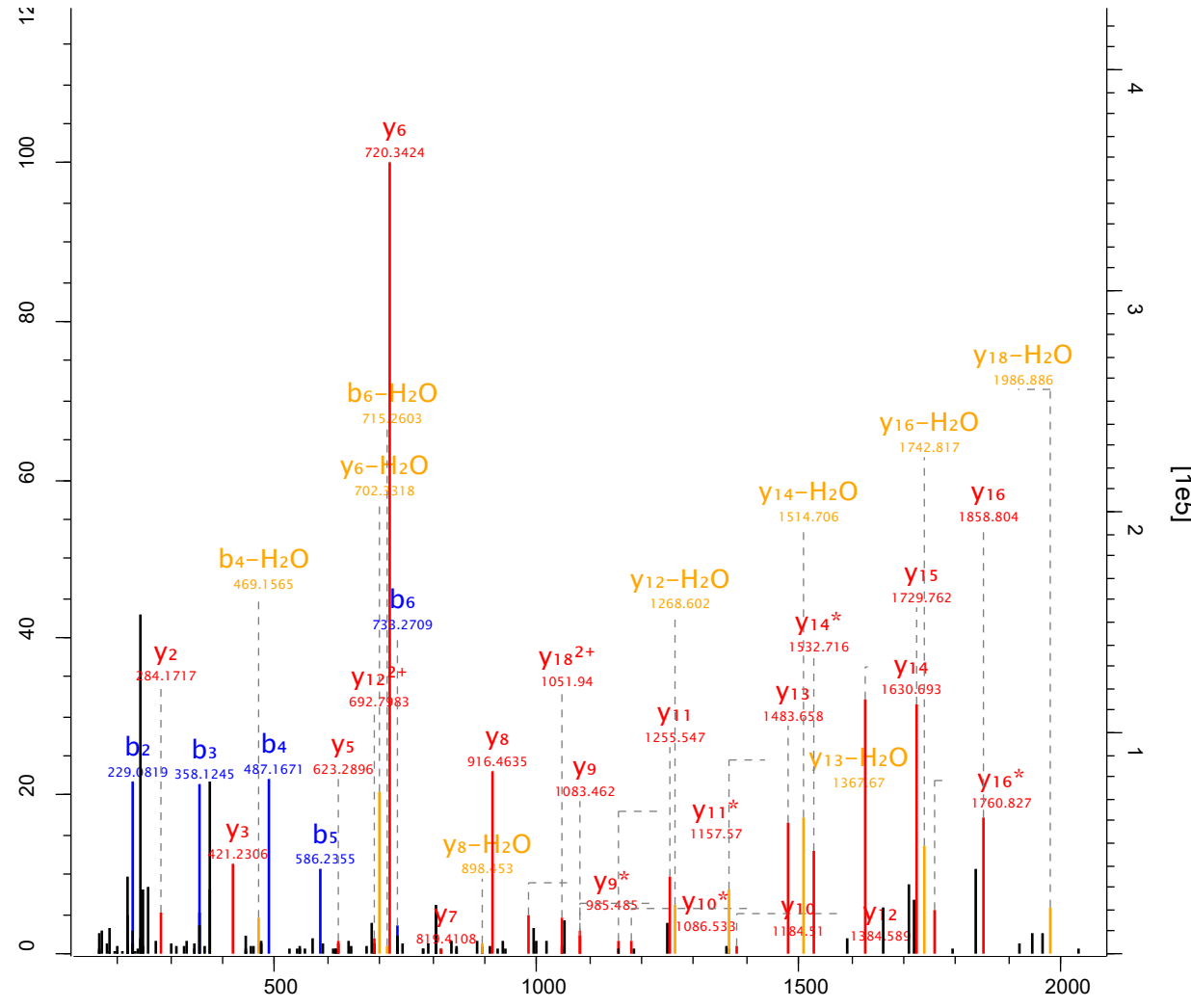
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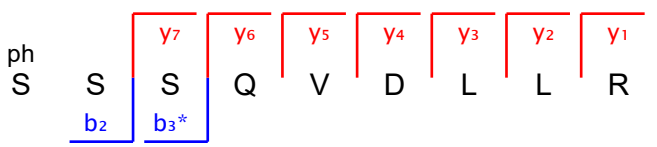
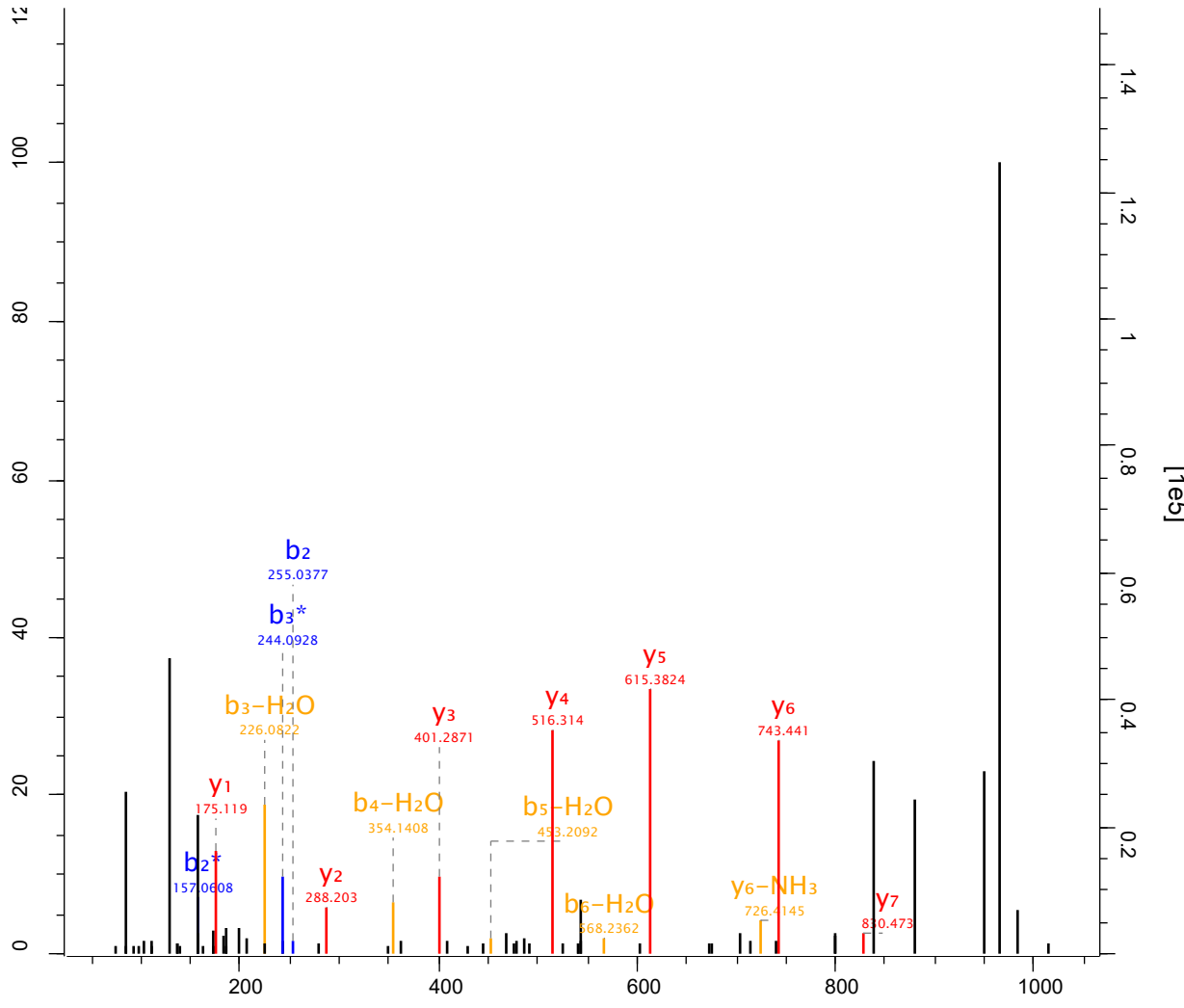
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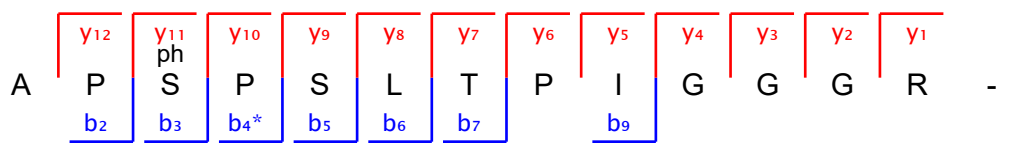
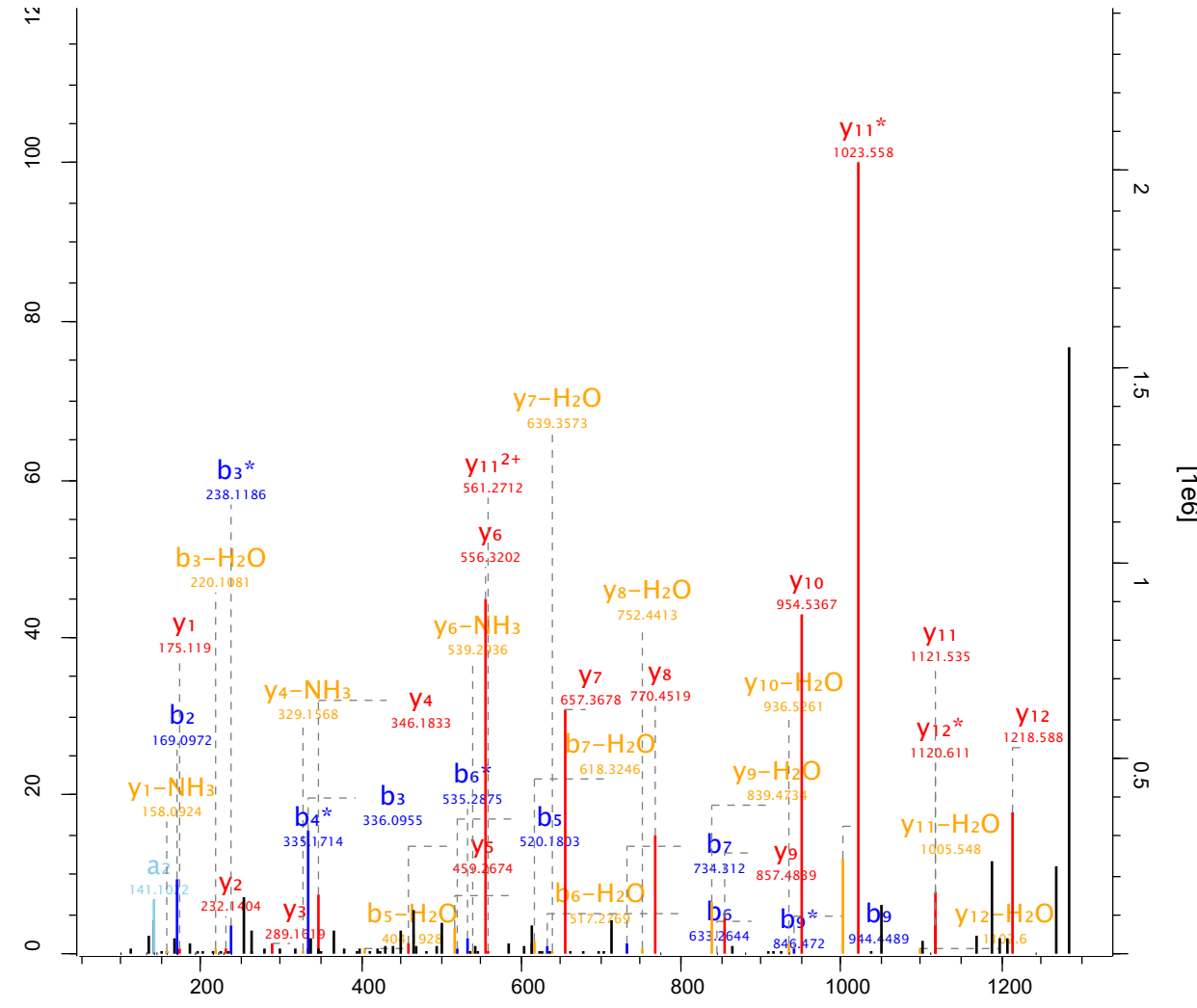
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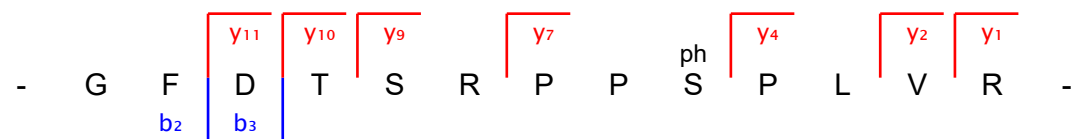
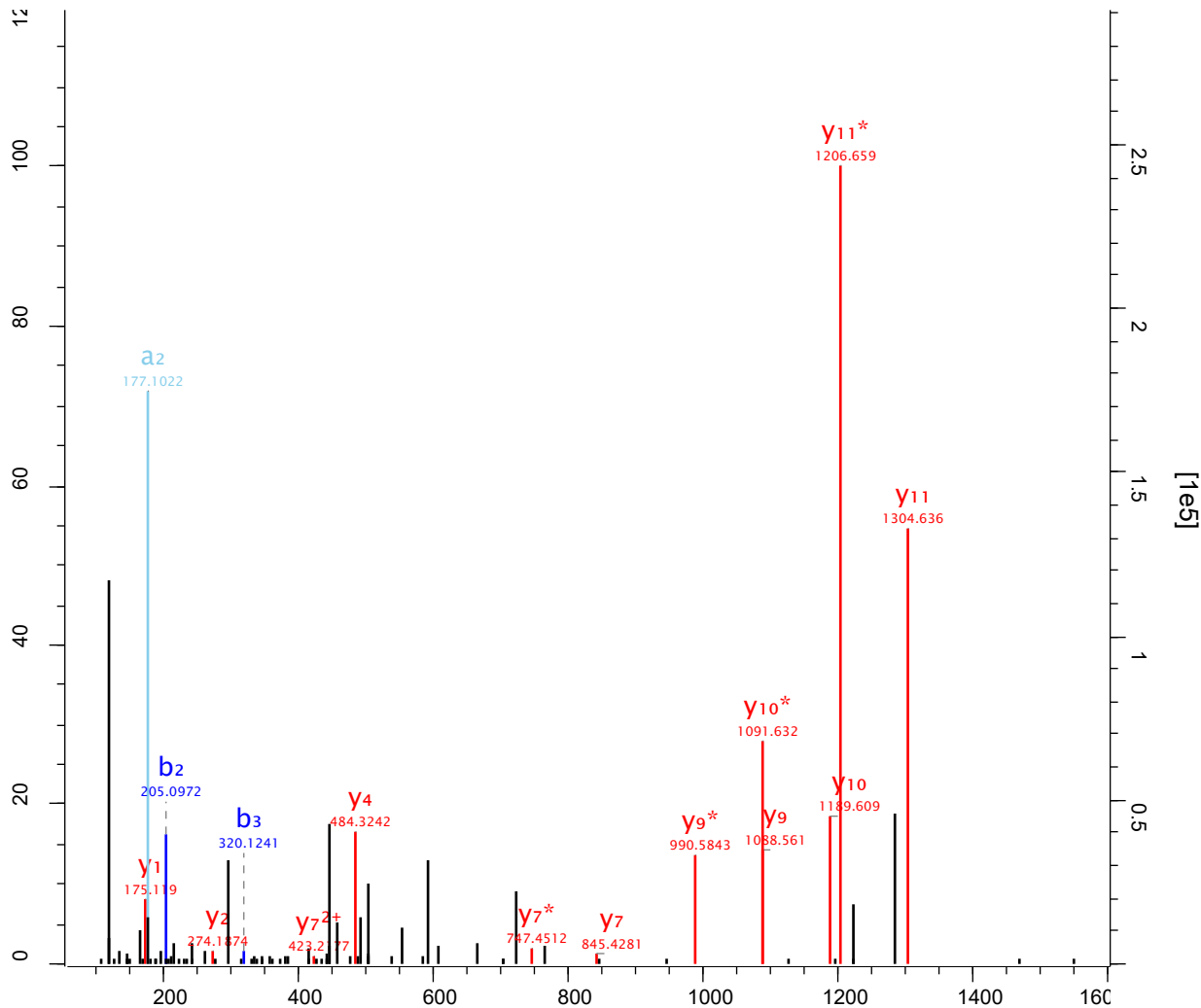


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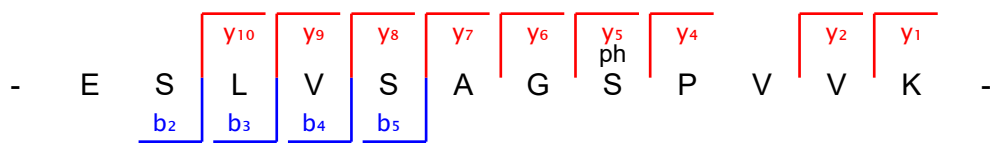
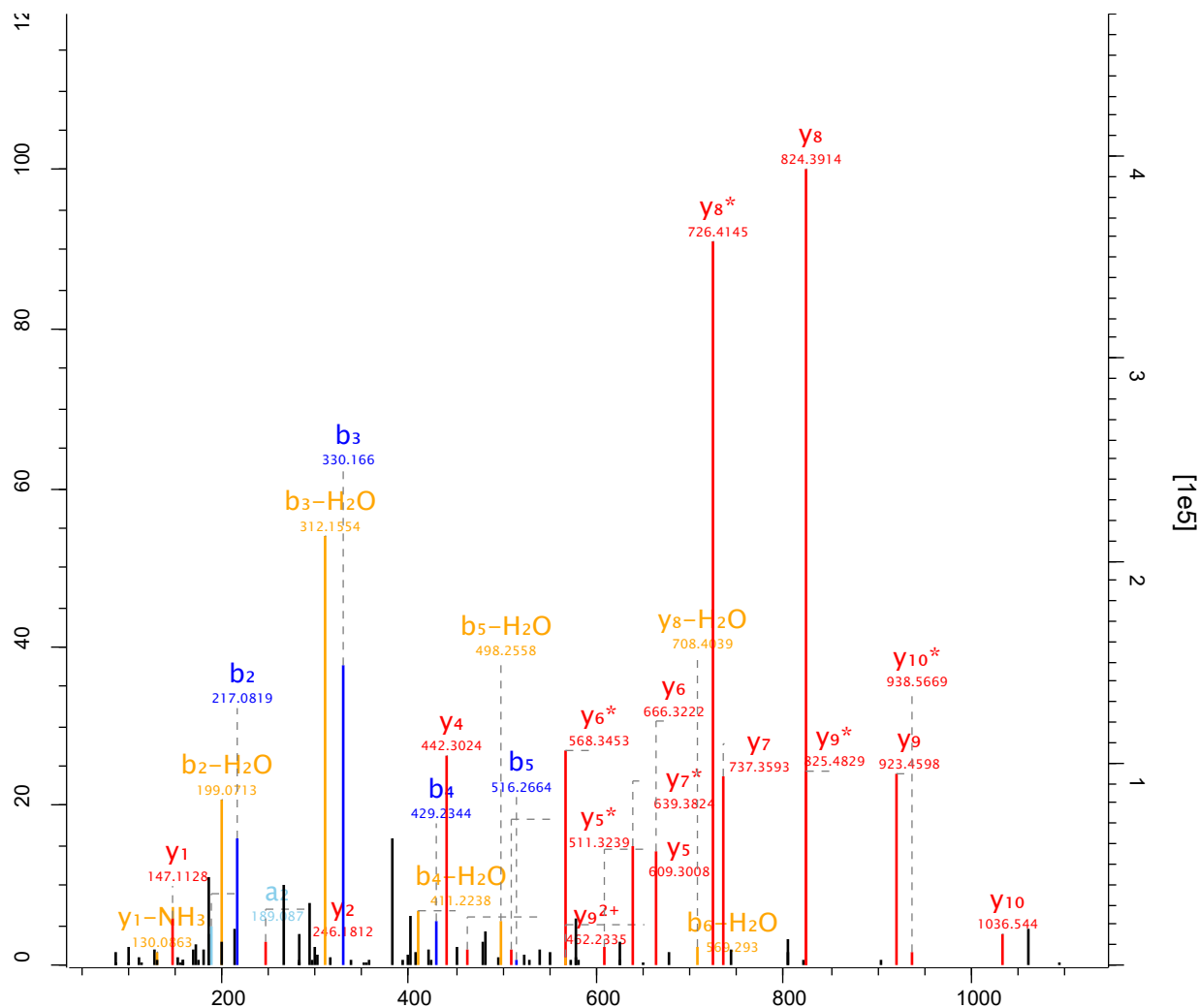




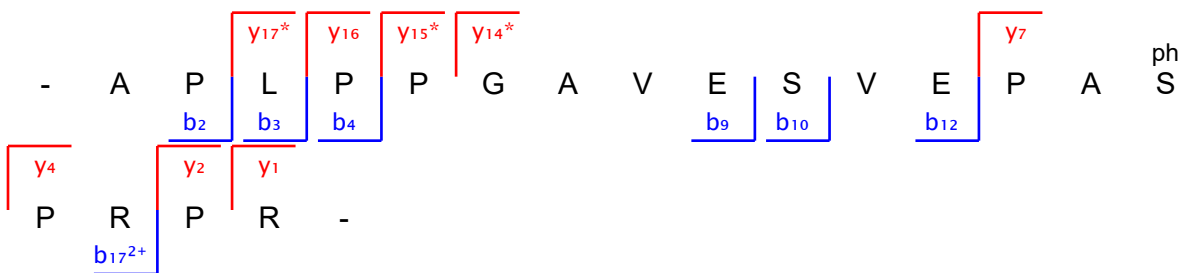
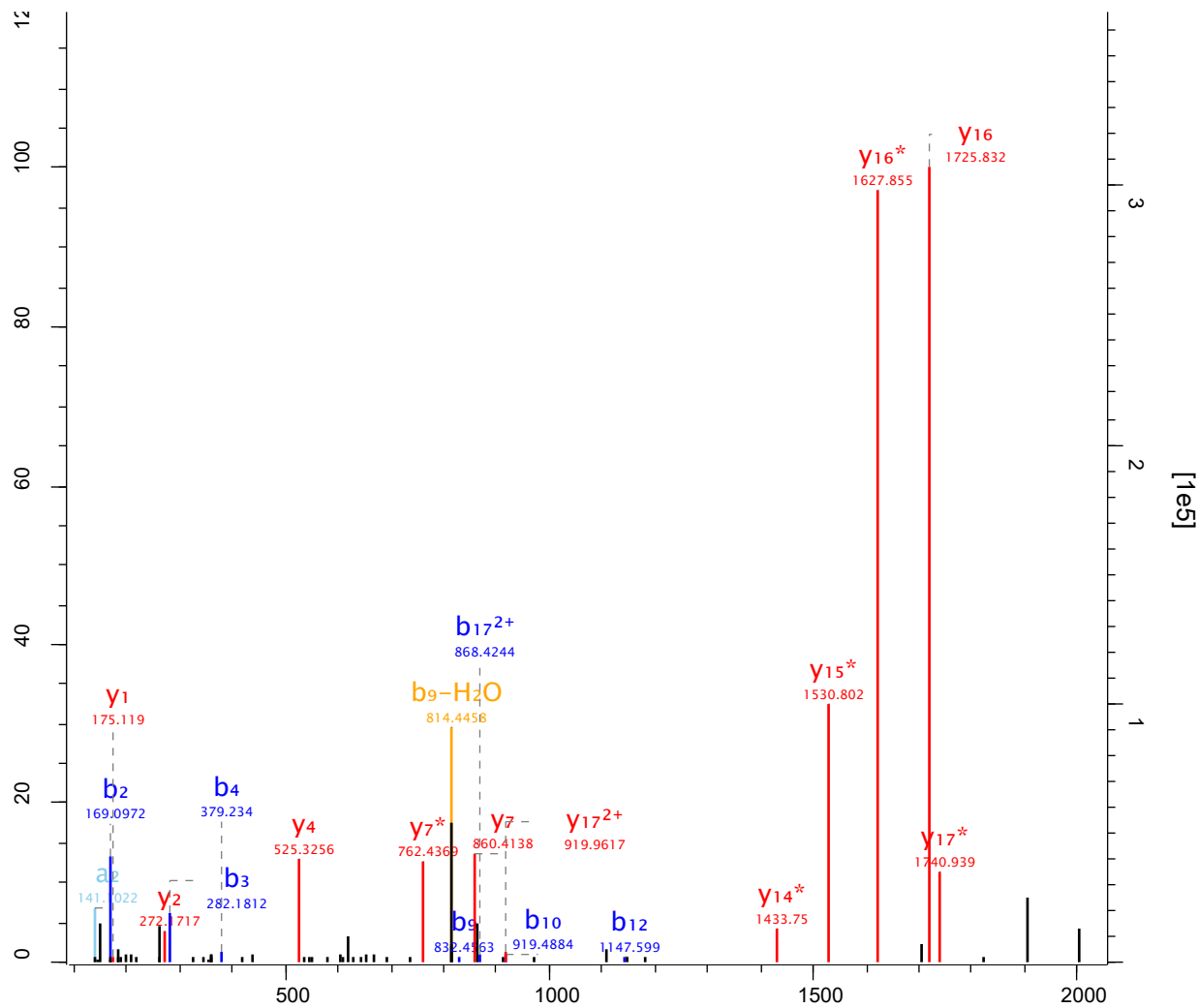
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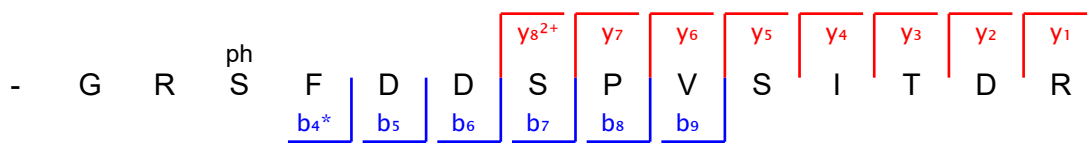
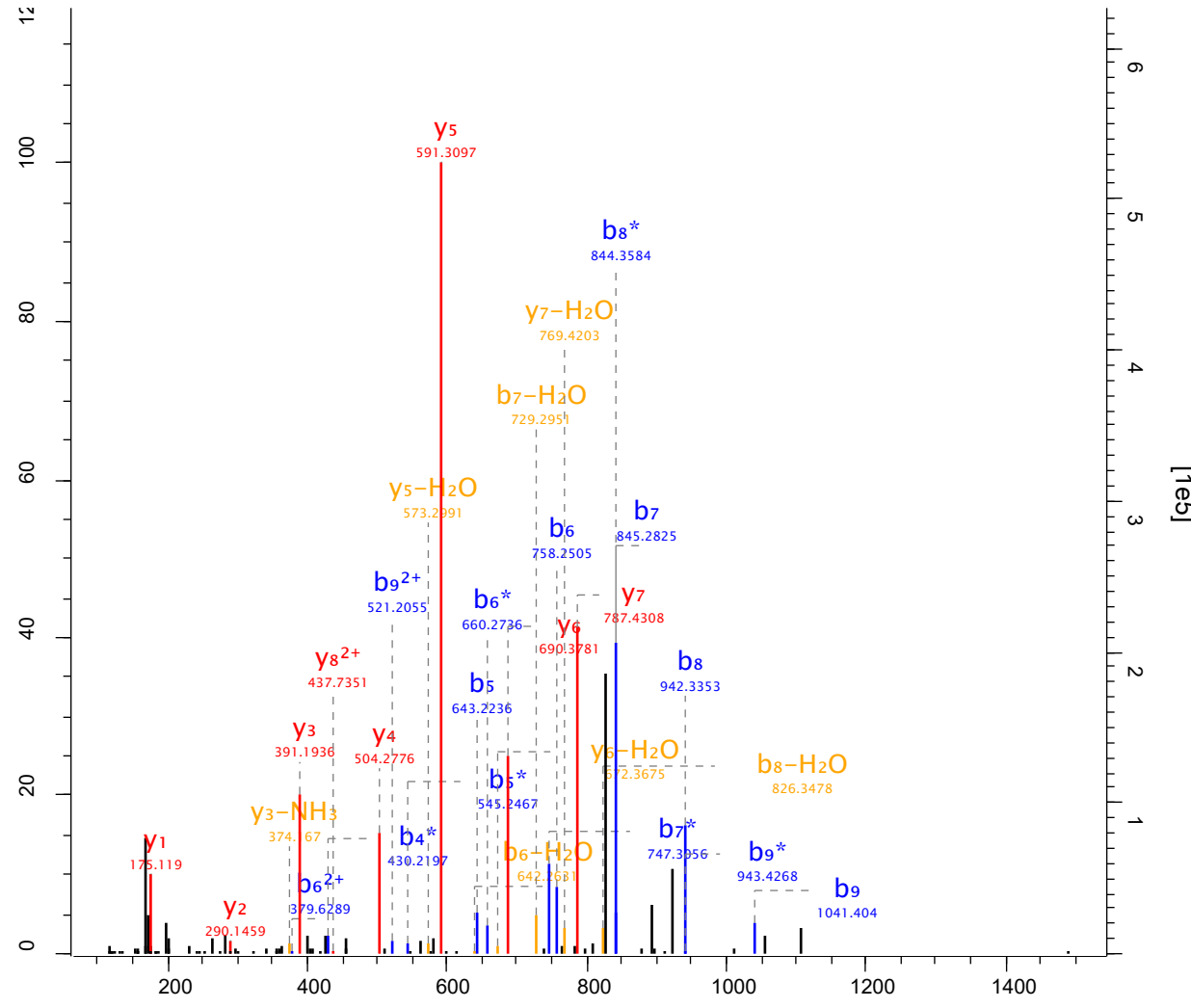
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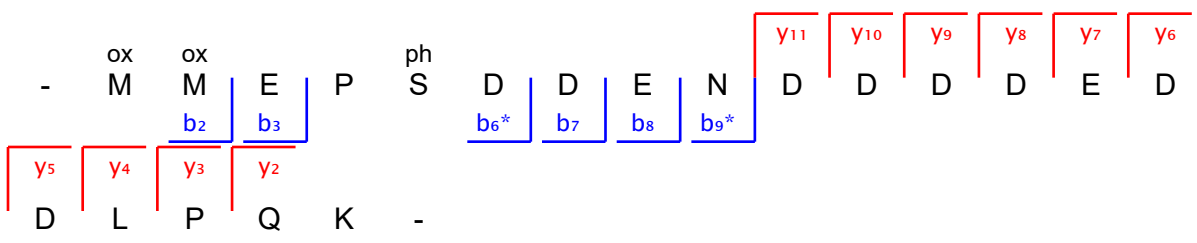
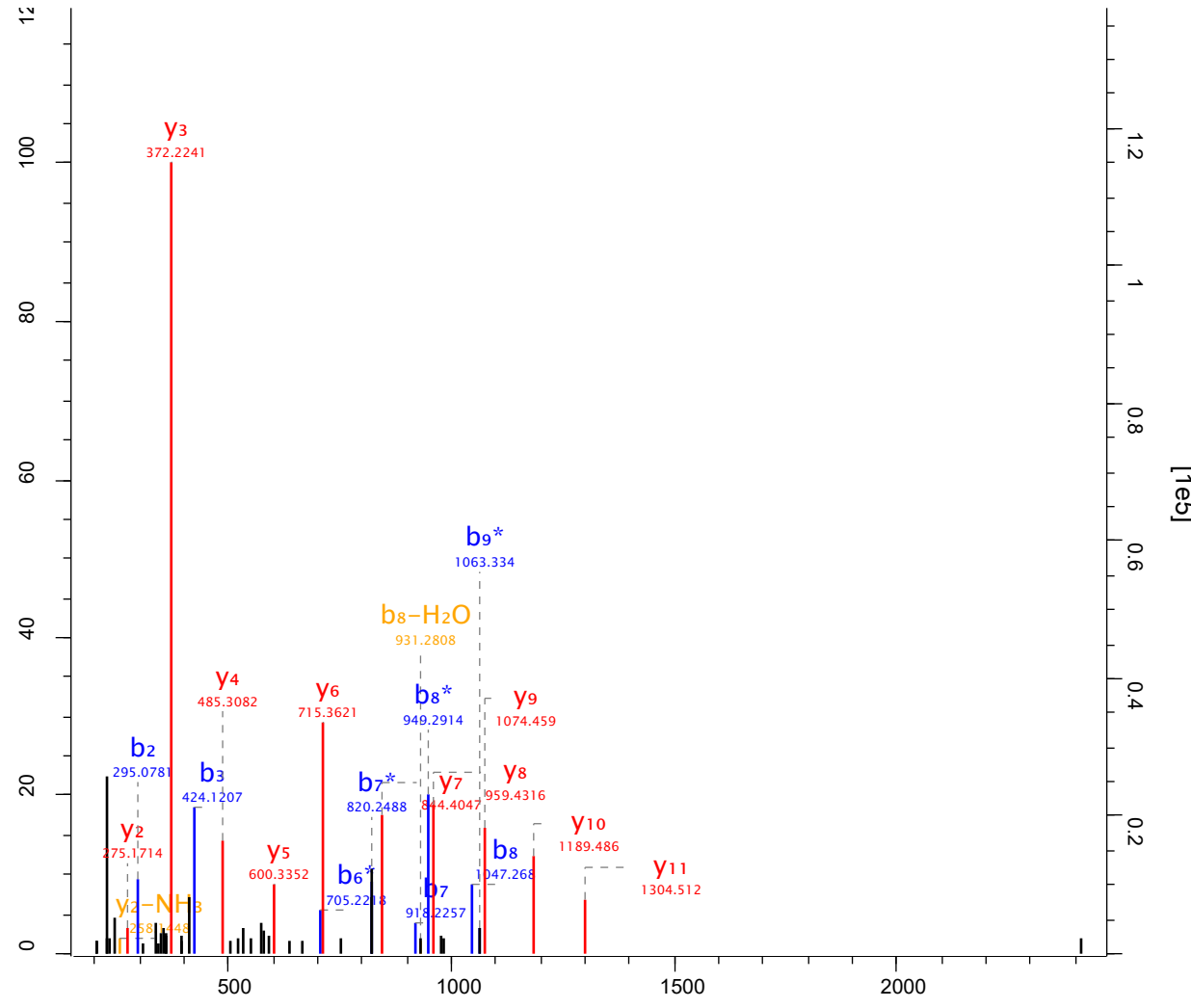
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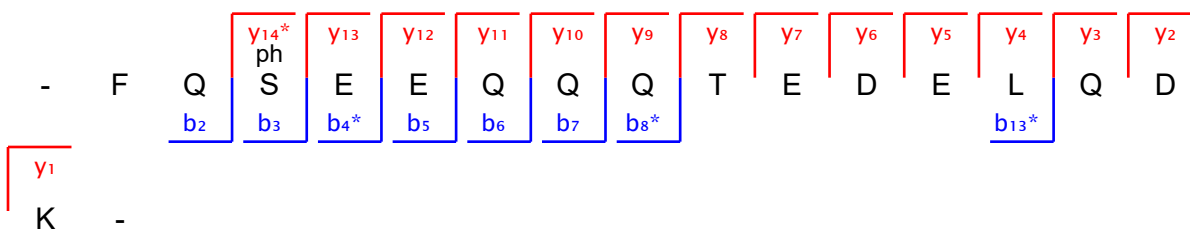
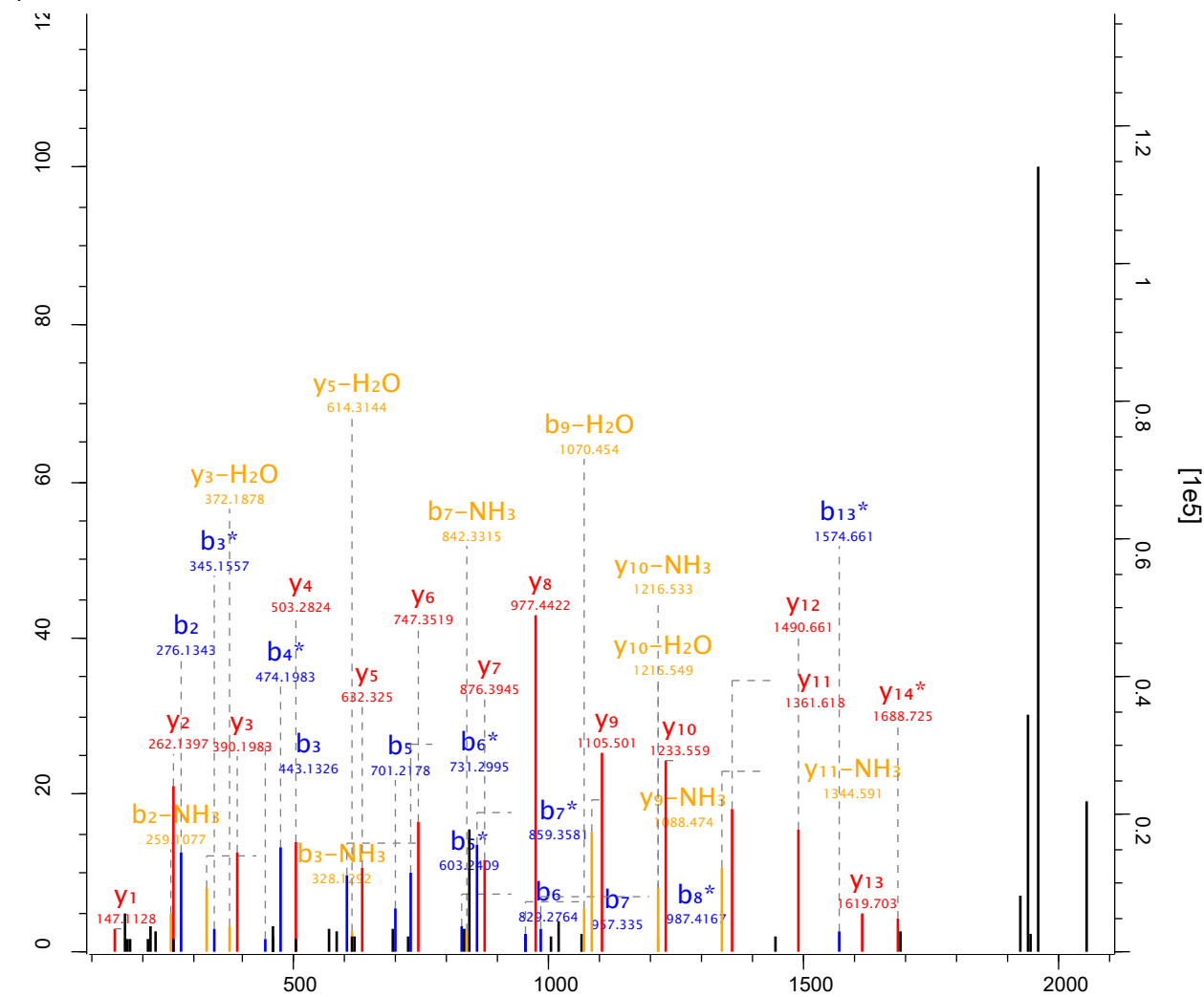
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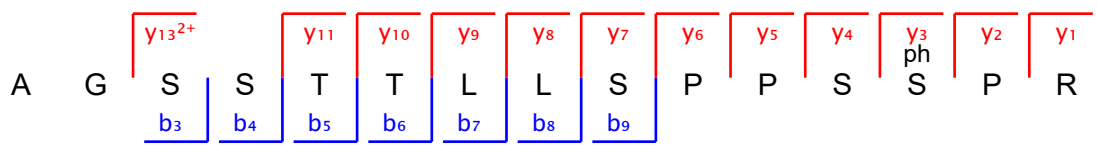
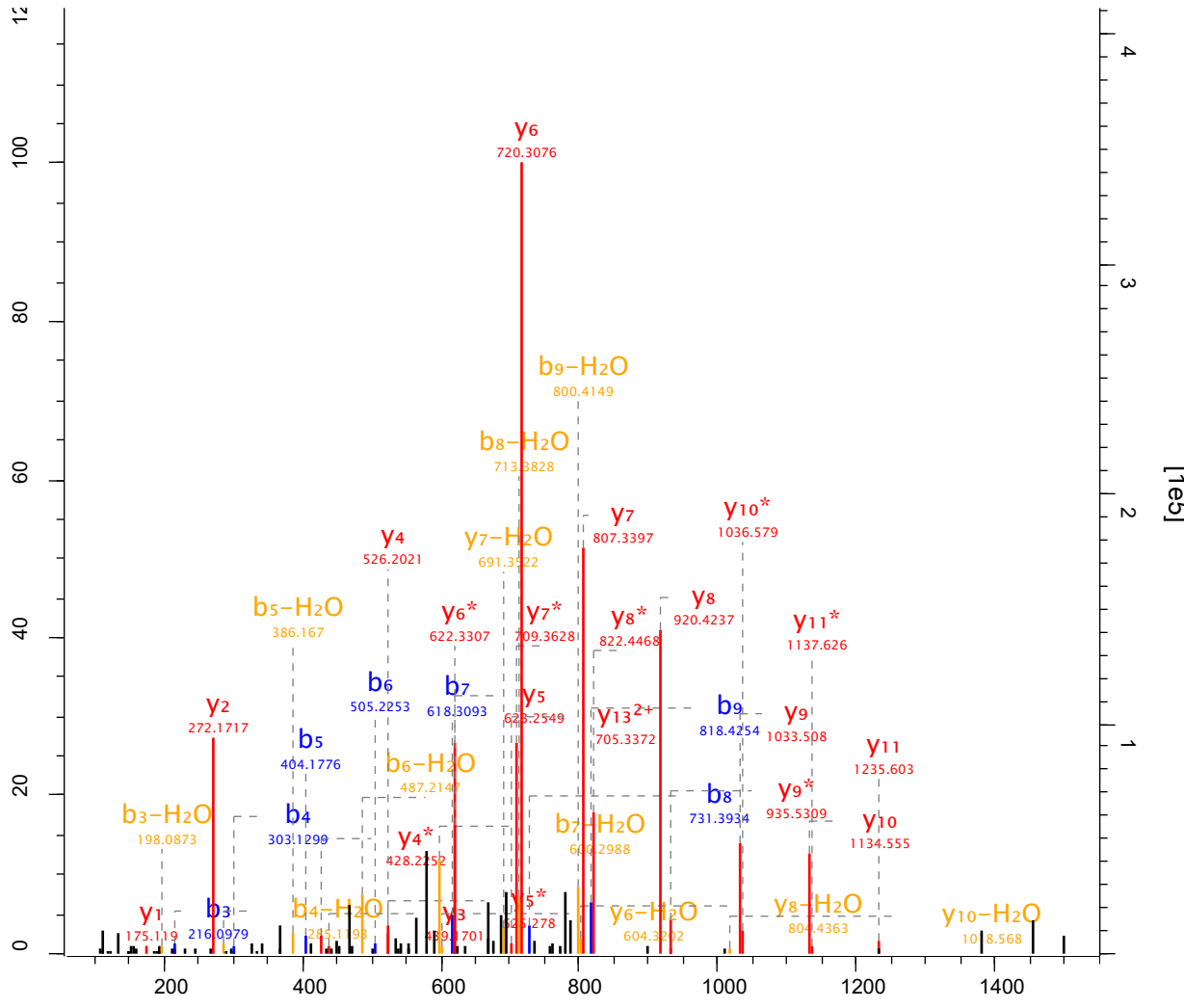
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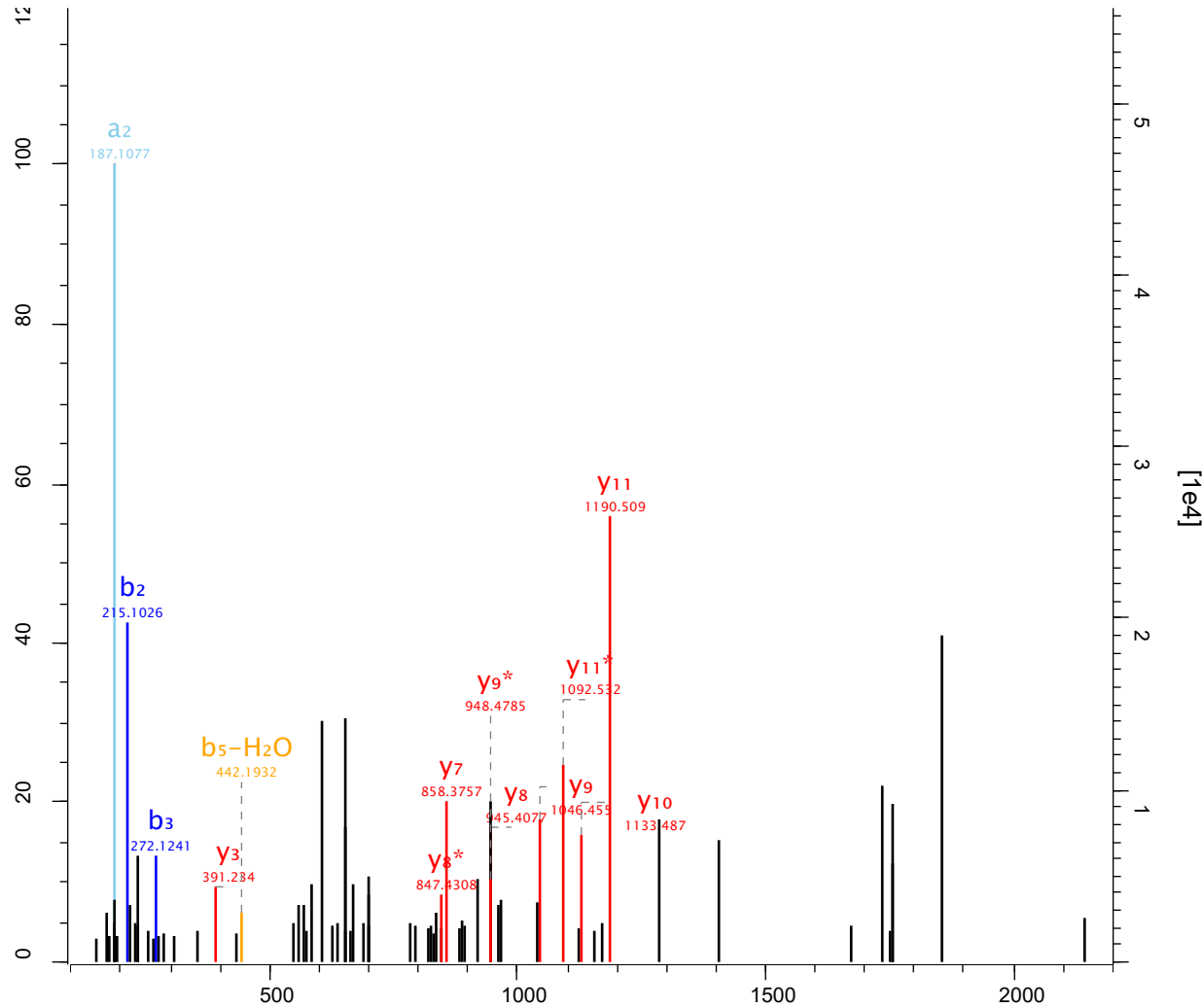
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Raw file Scan Method Score m/z  
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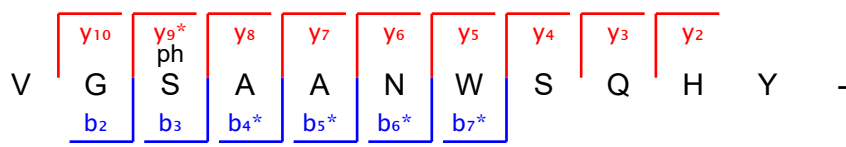
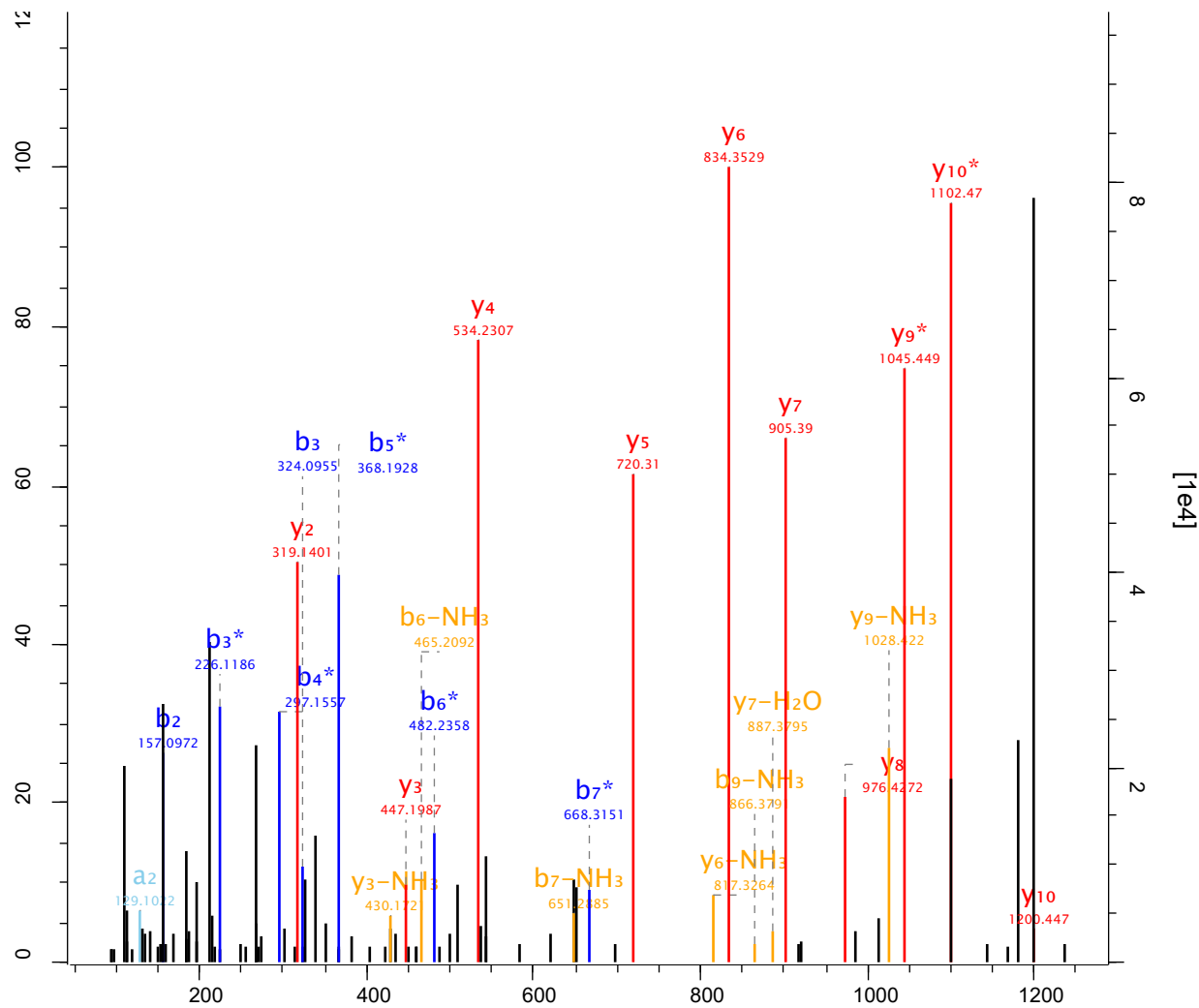


- D V G S T S S N V S P F K -

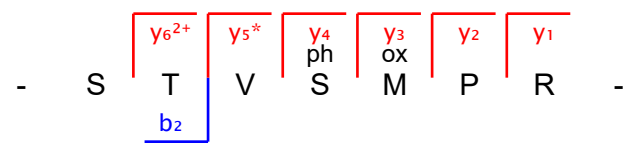
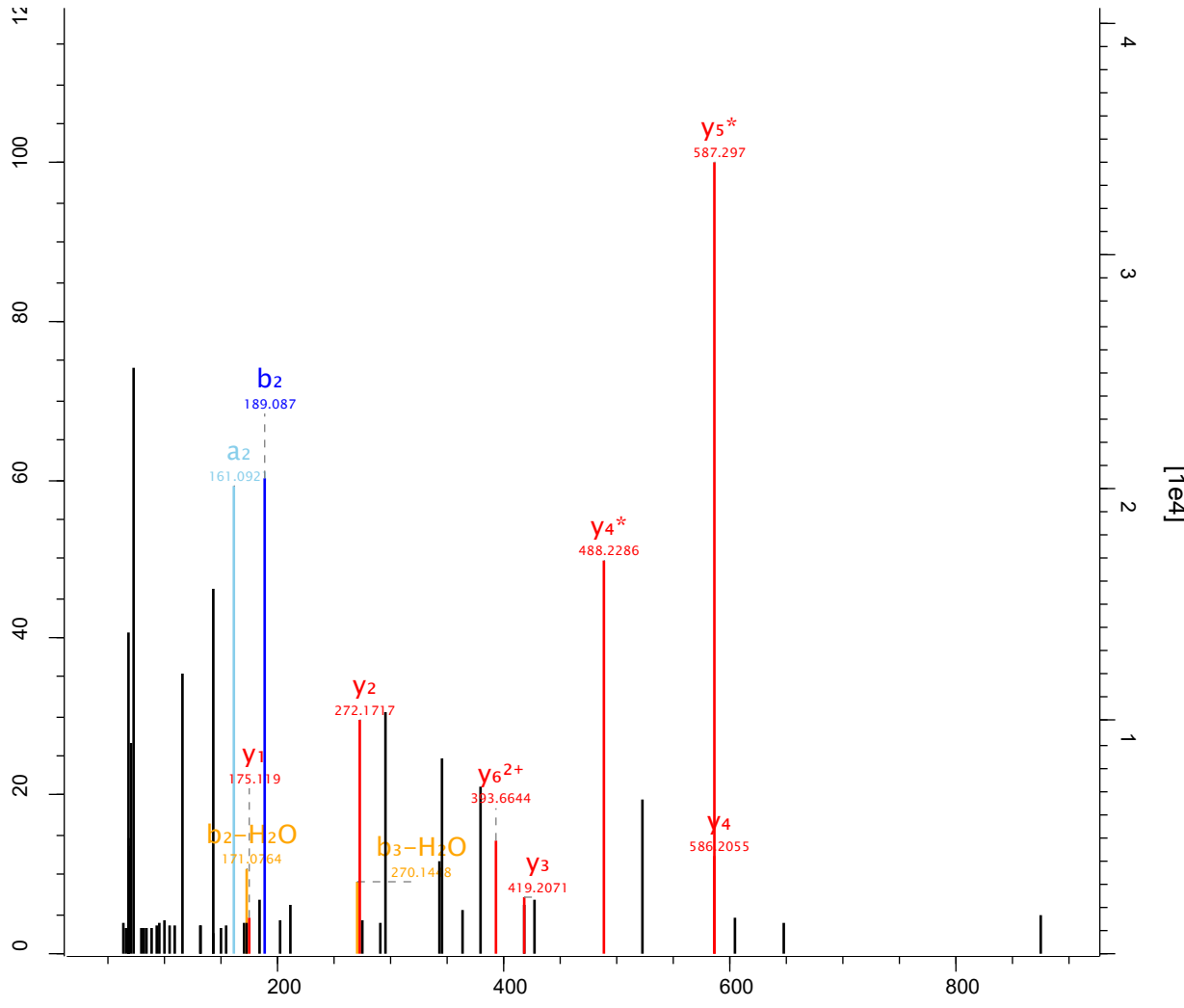
Fragmentation labels: b2 (under DV), b3 (under VG), y11 (over VG), y10 (over GS), y9 (over TS), y8 (over SS), y7 (over Sph), y3 (over SP).



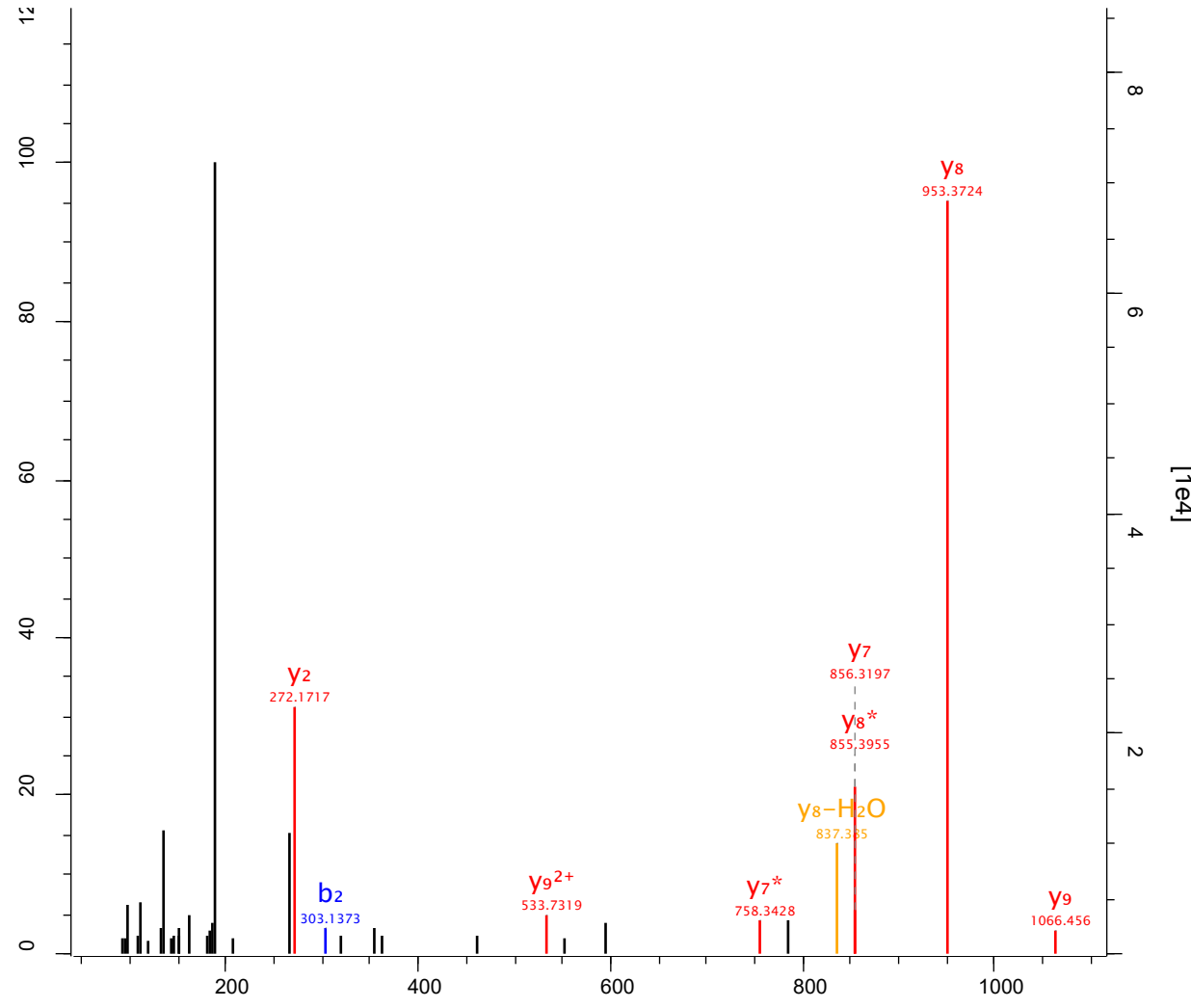
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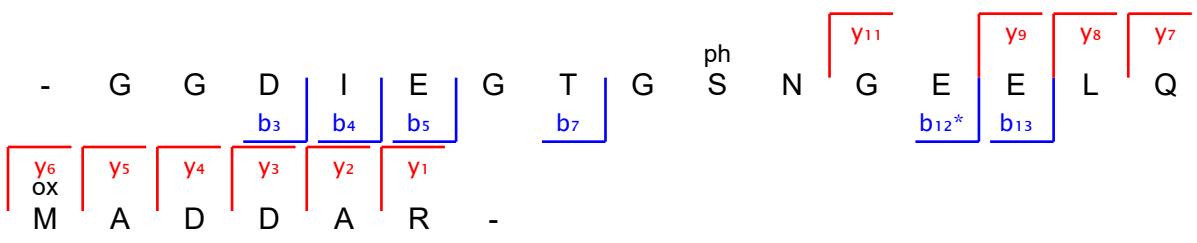
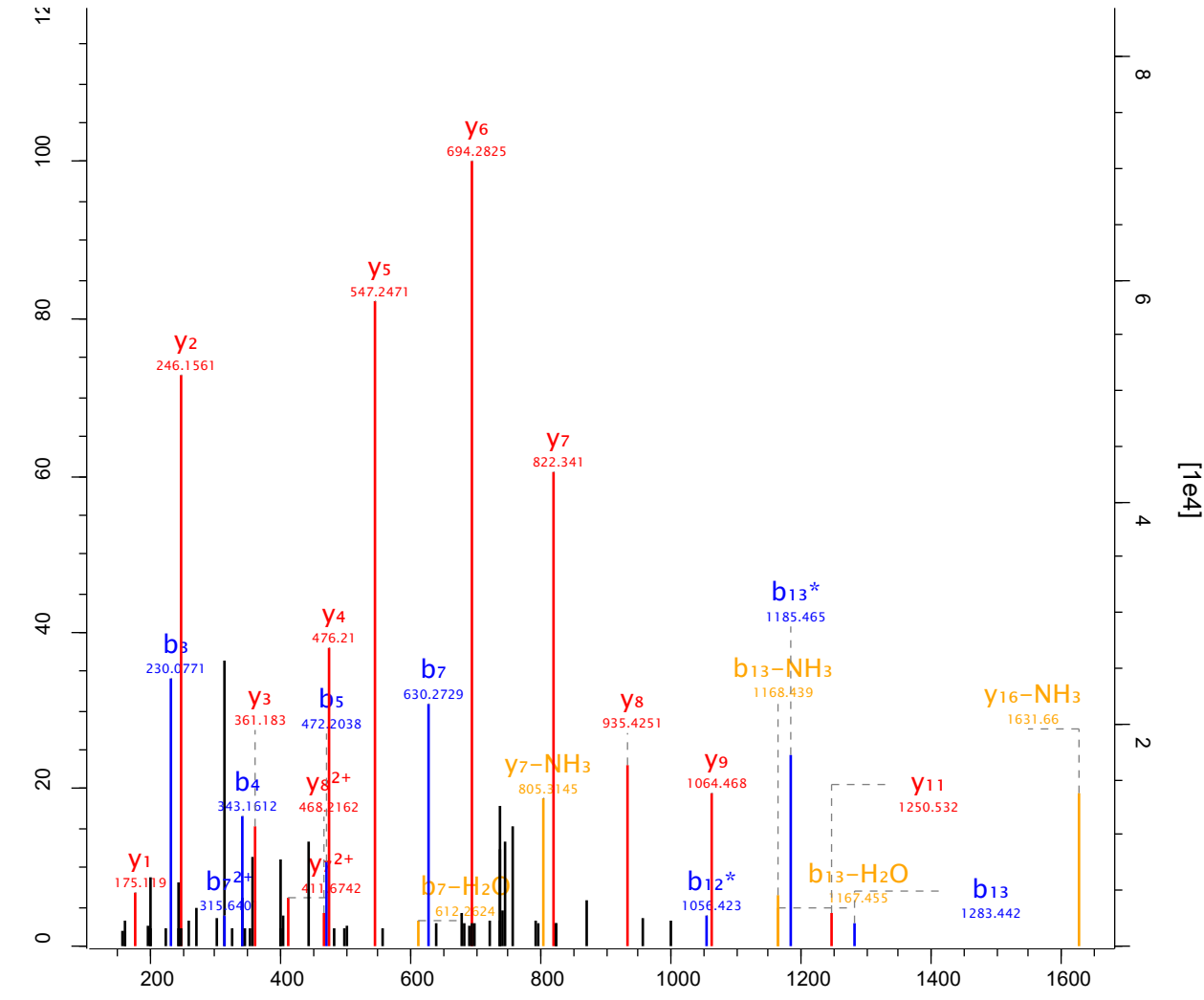
Raw file	Scan	Method	Score	m/z
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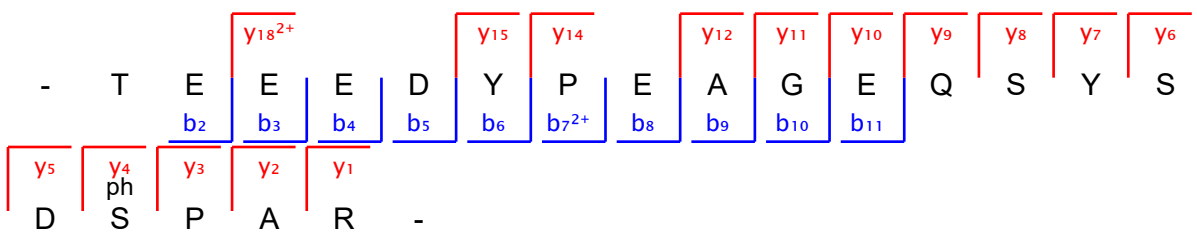
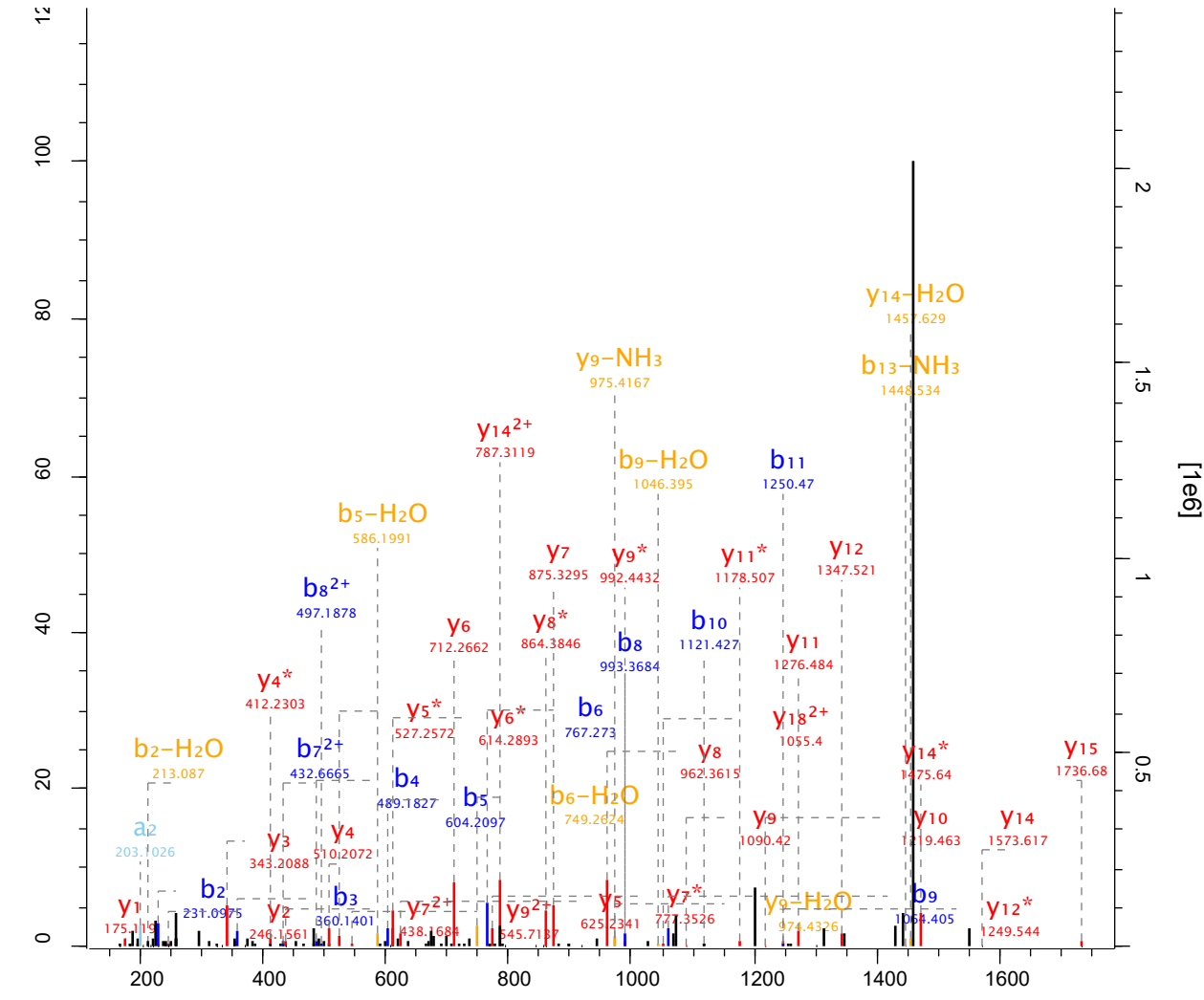
Raw file Scan Method Score m/z  
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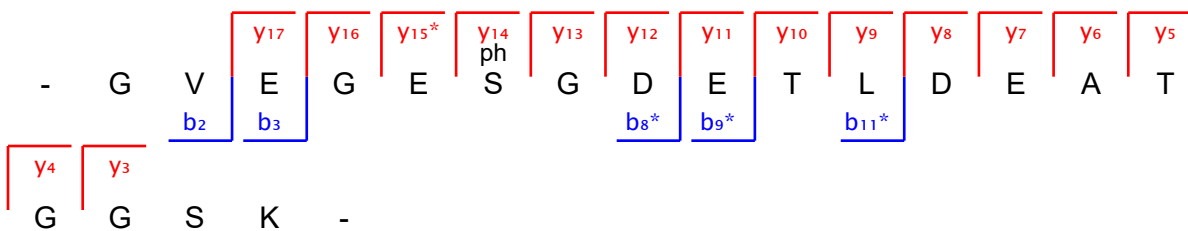
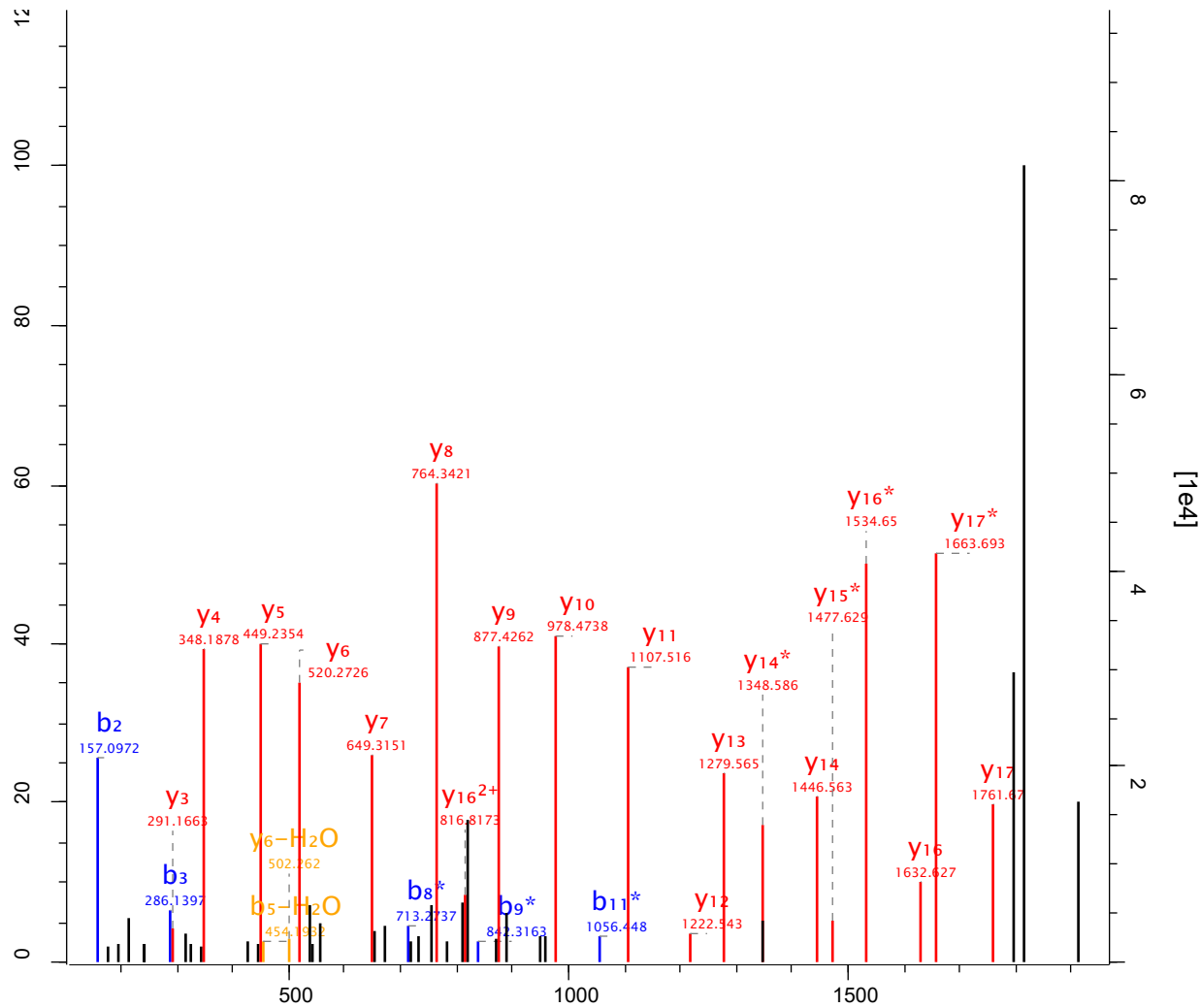
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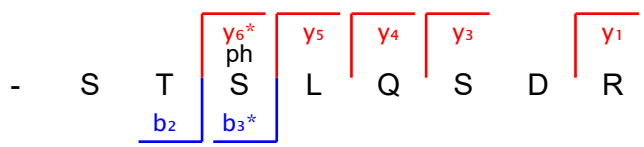
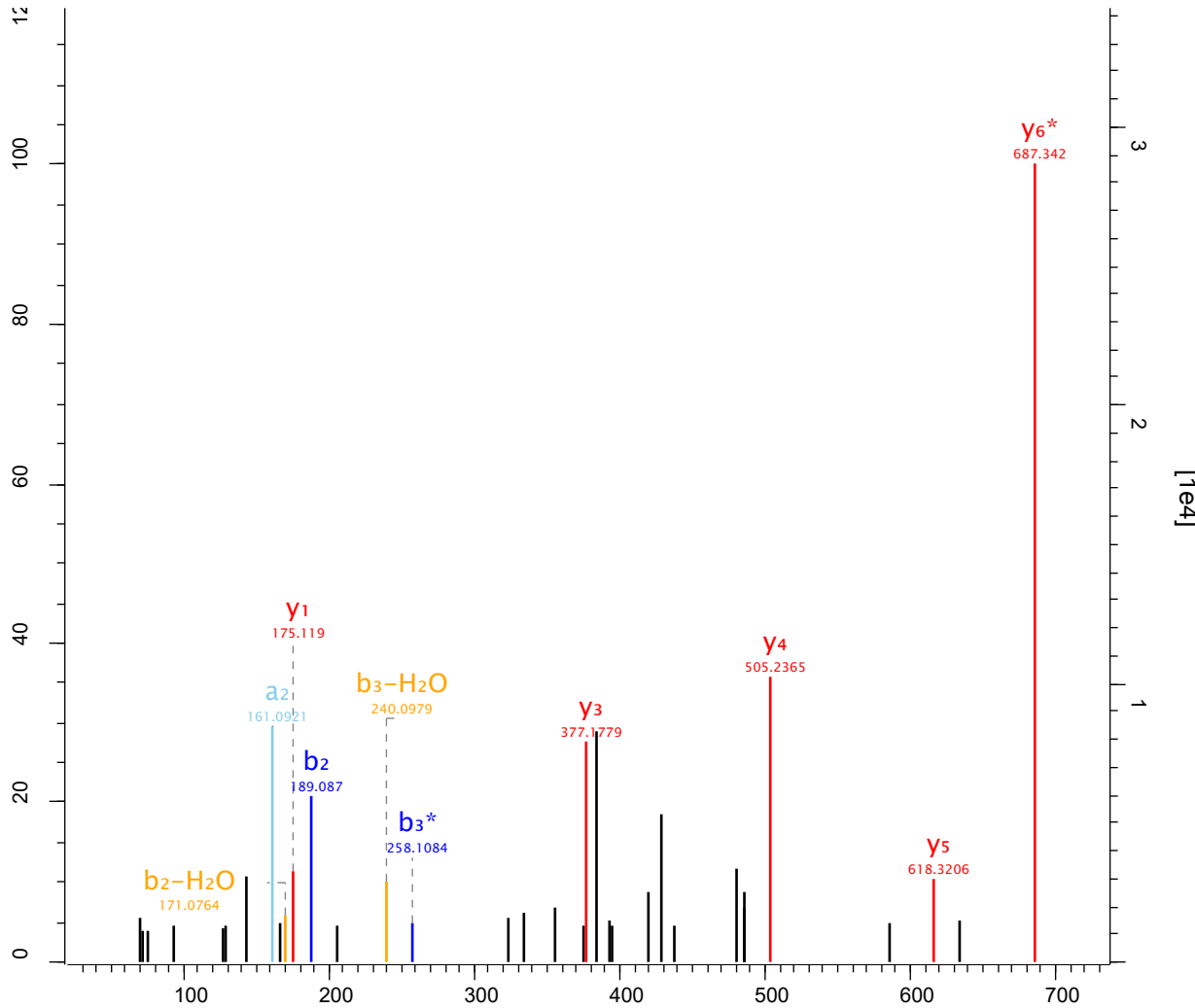
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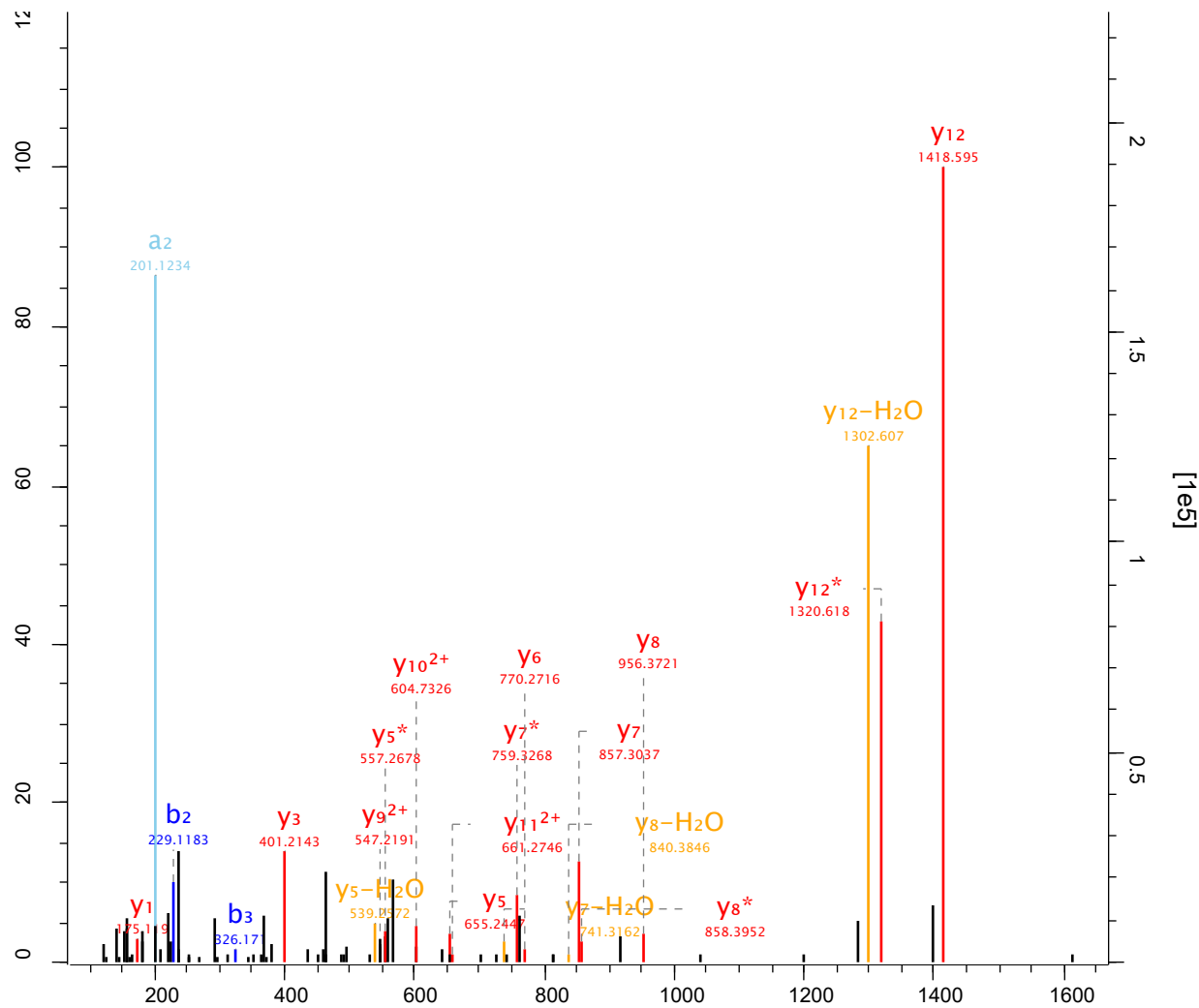
Raw file Scan Method Score m/z  
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Raw file	Scan	Method	Score	m/z
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Raw file Scan Method Score m/z  
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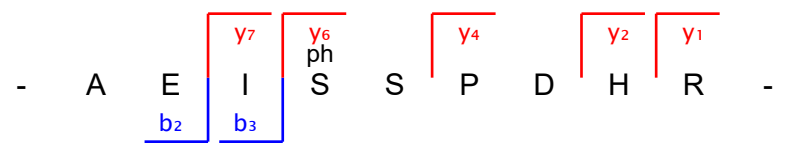
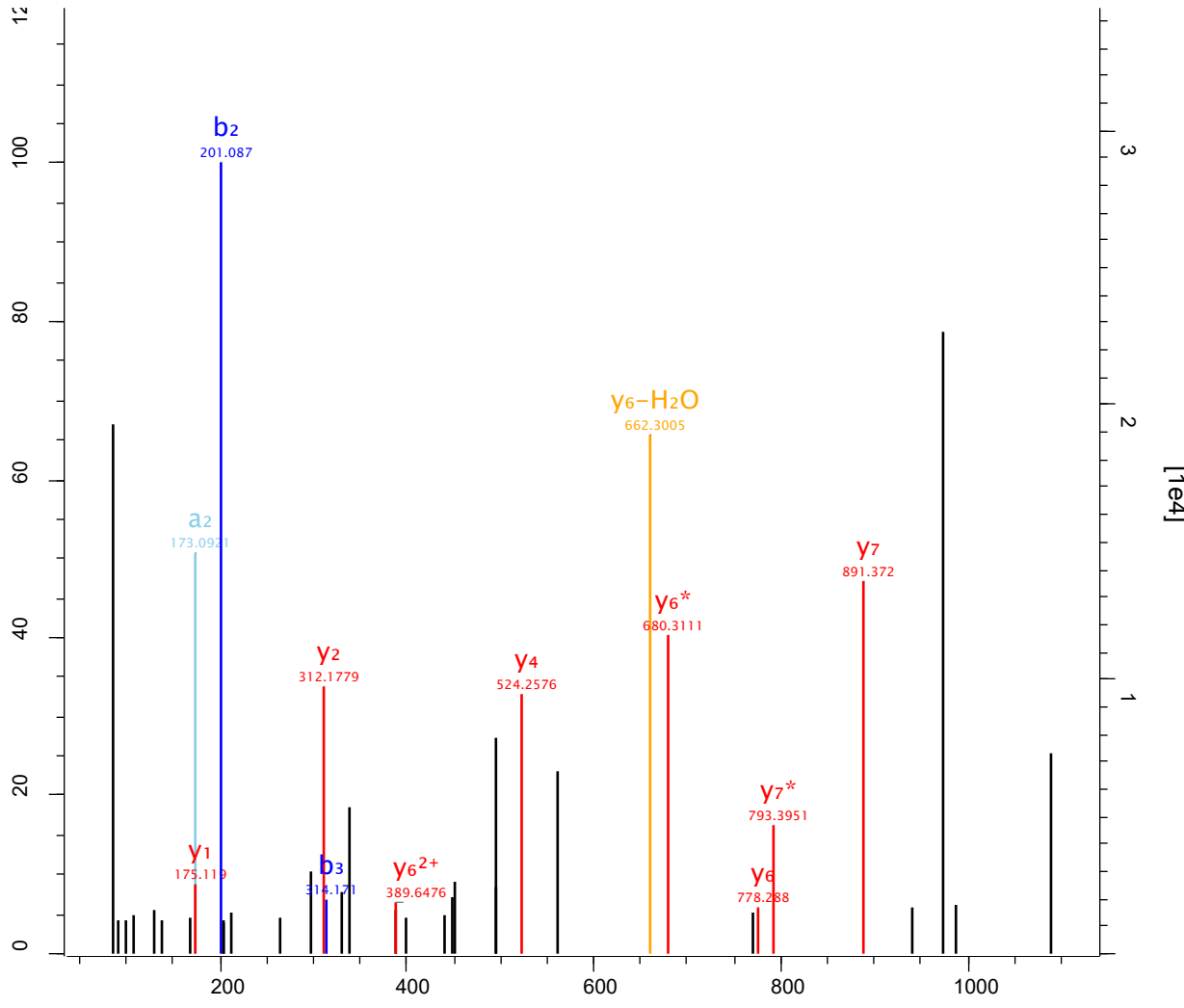


- D I P L D H V S D S P E R -

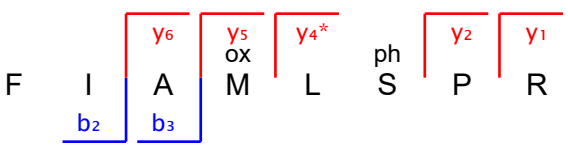
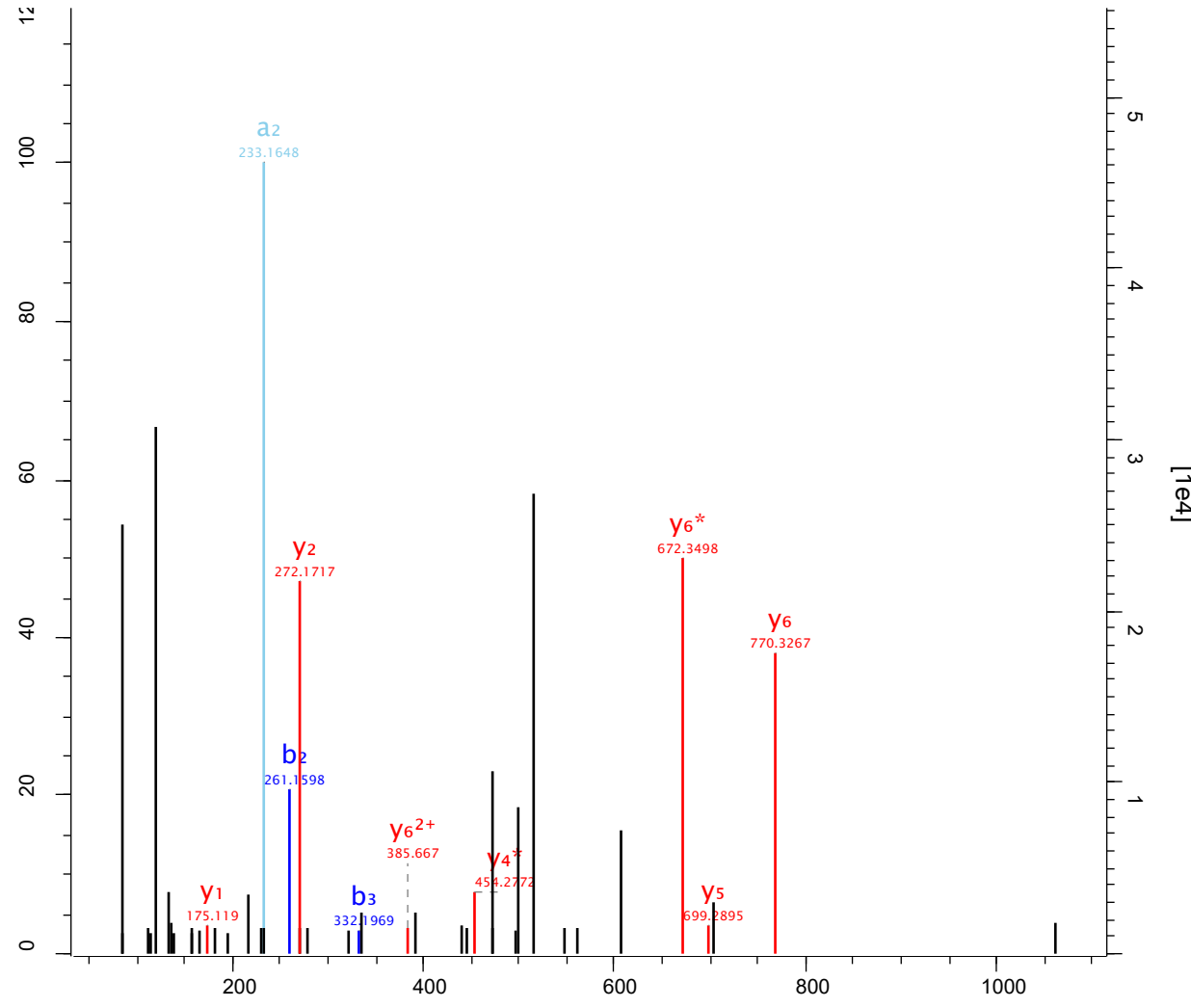
Fragmentation mapping (red boxes):  
 - I: b2  
 - P: b3, y12  
 - L: y11 2+, y10 2+, y9 2+, y8  
 - D: y10 2+, y9 2+, y8  
 - H: y9 2+, y8  
 - V: y8  
 - S: y7, y7-H2O, y6  
 - D: y6  
 - S: y5 ph  
 - S: y3  
 - P: y3  
 - E: y1  
 - R: y1



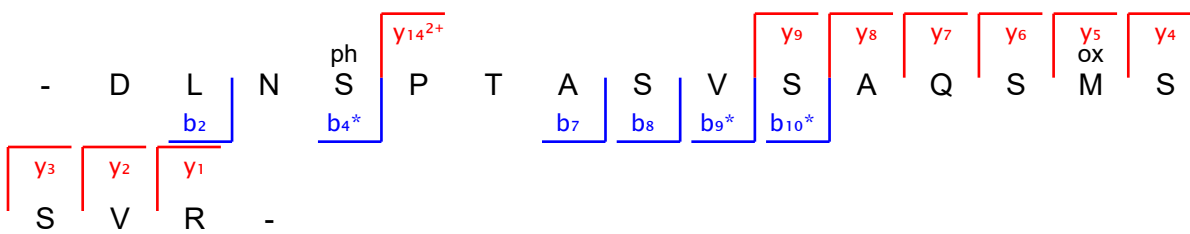
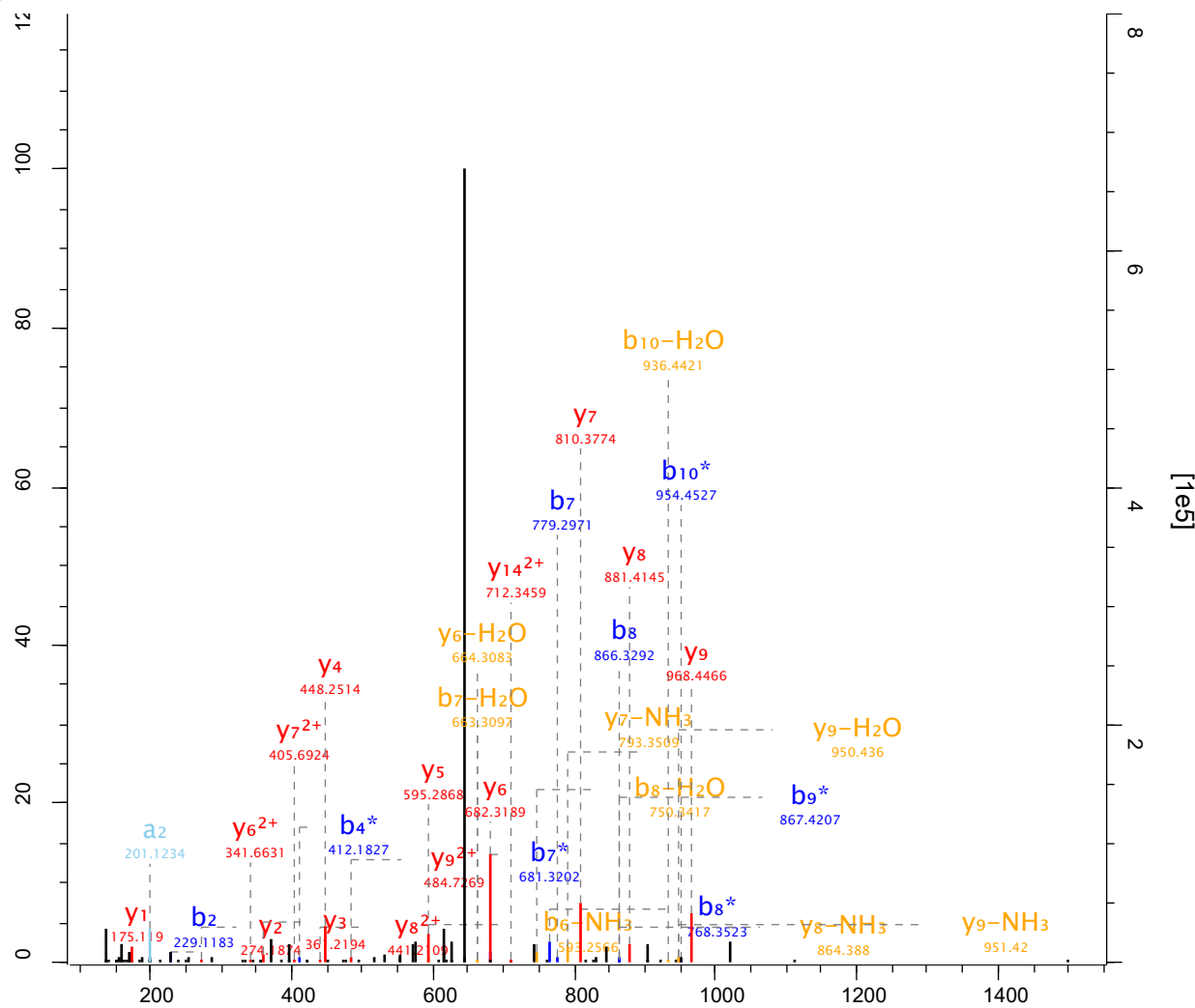
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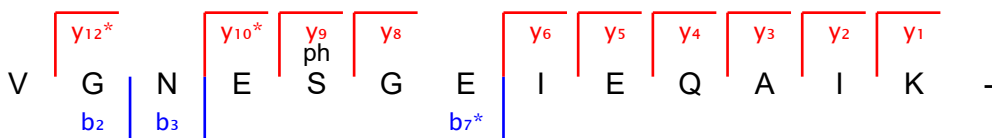
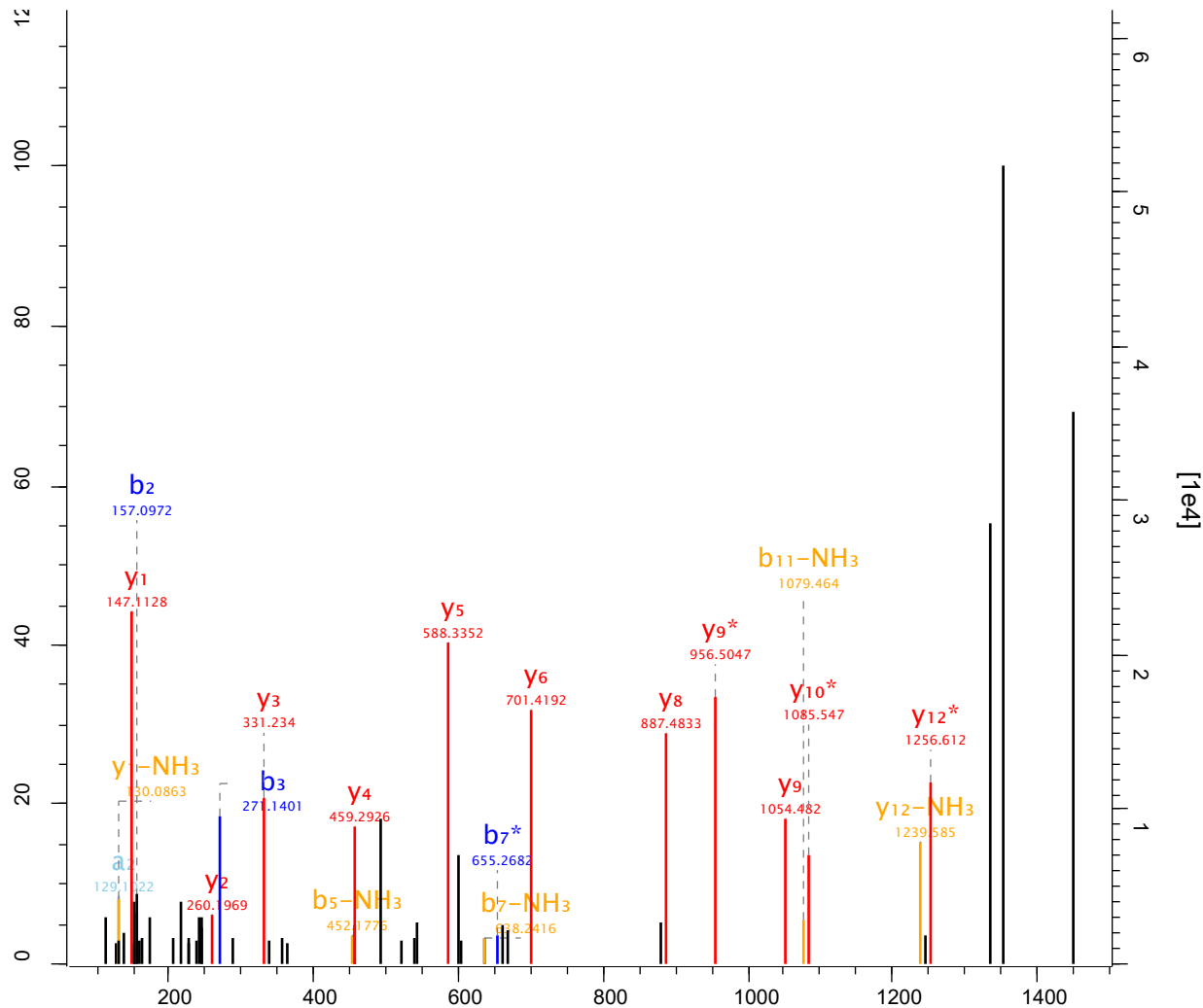
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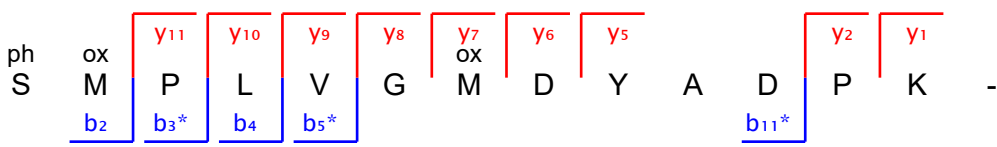
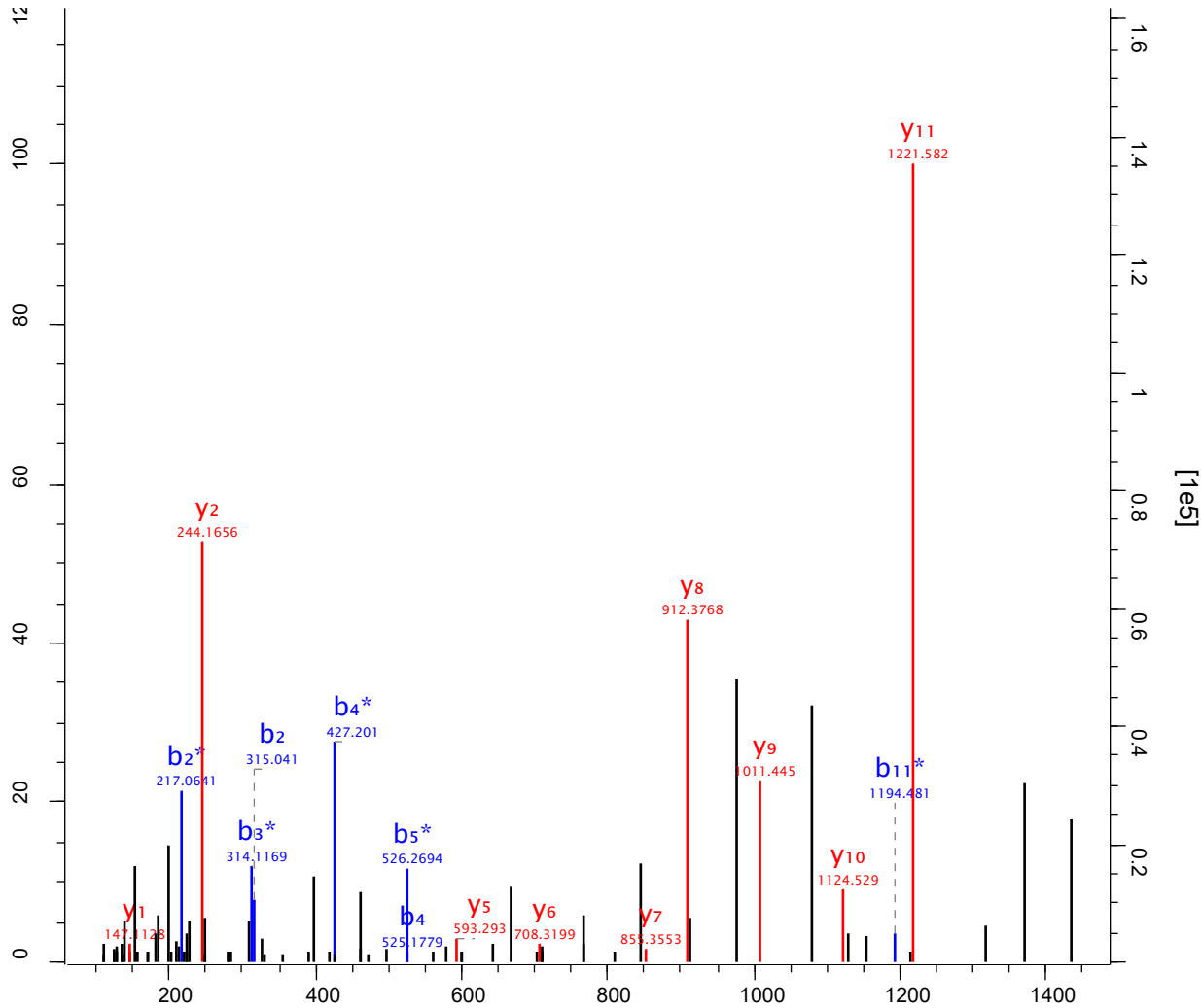
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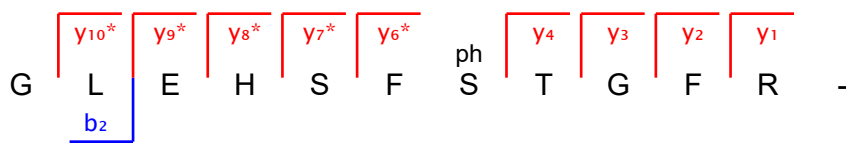
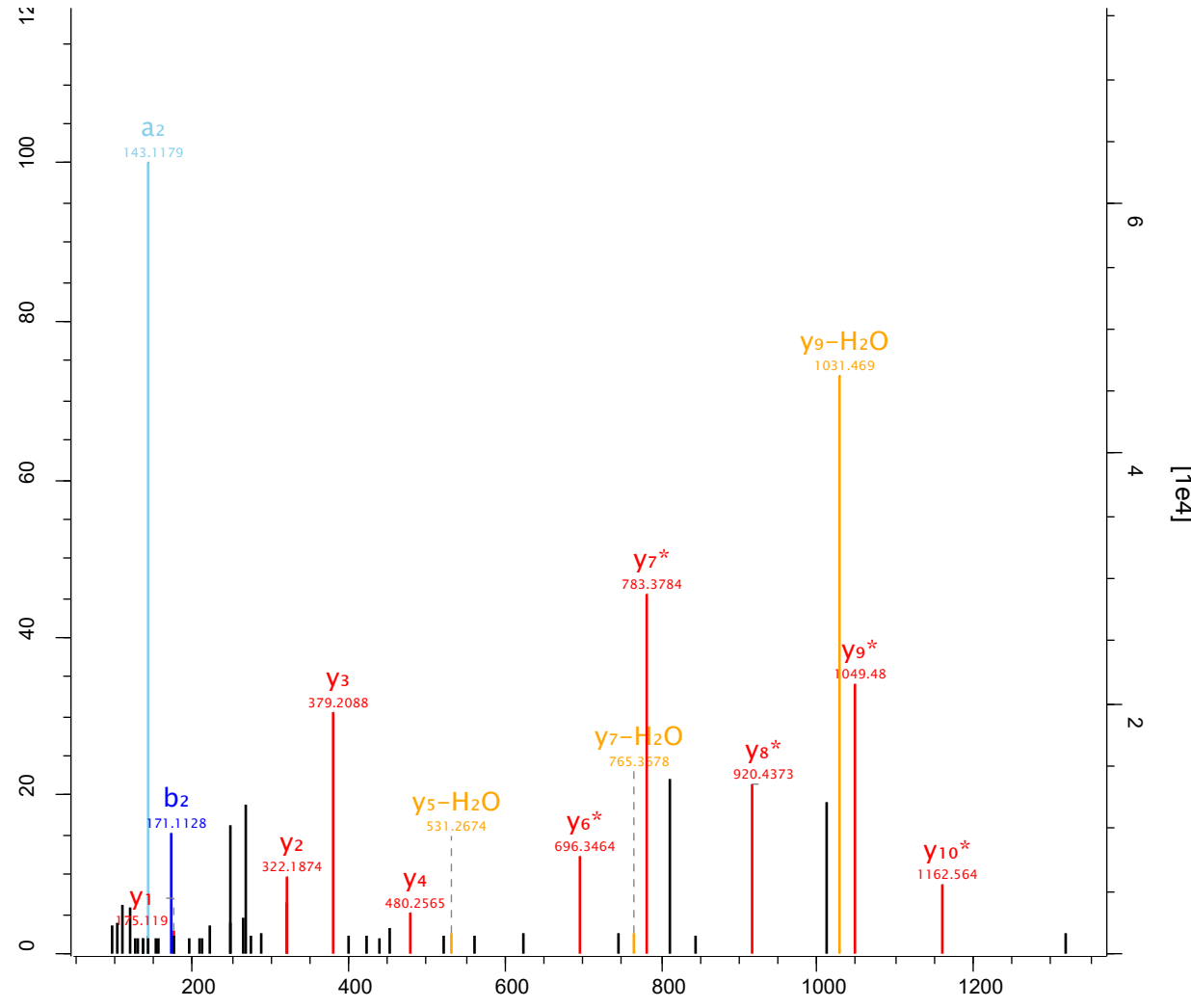
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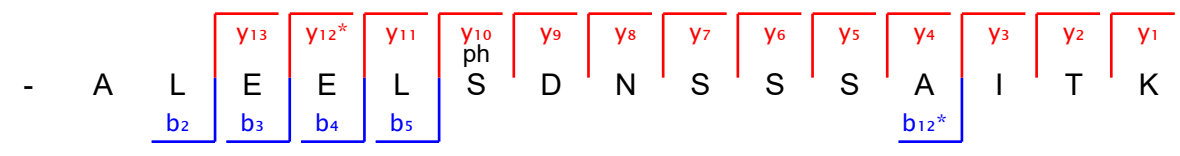
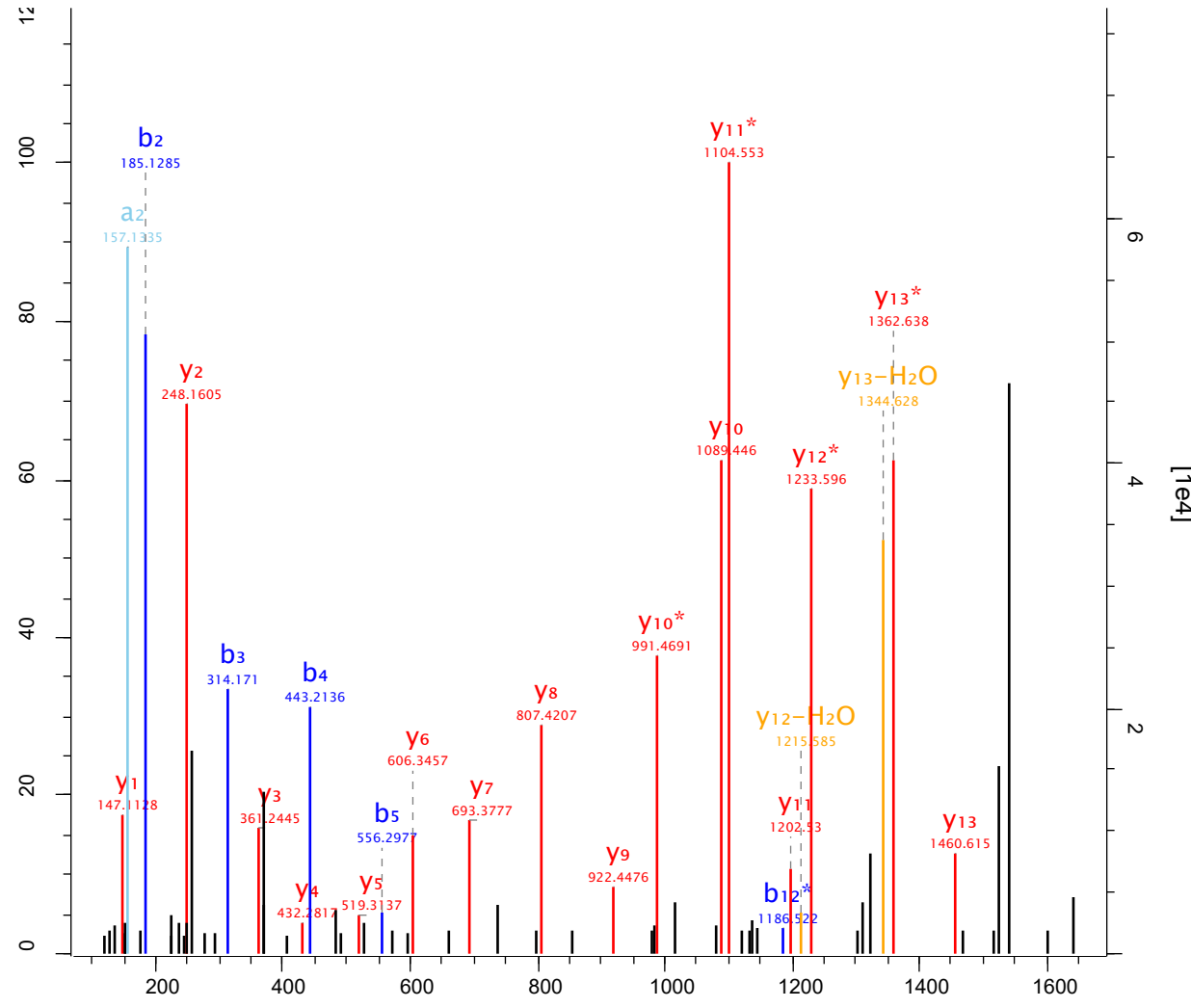
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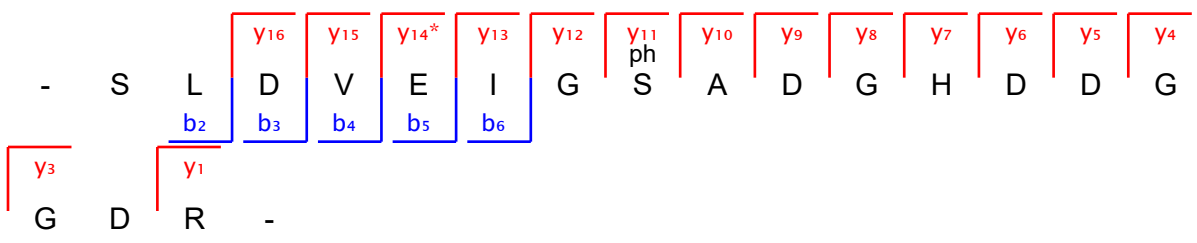
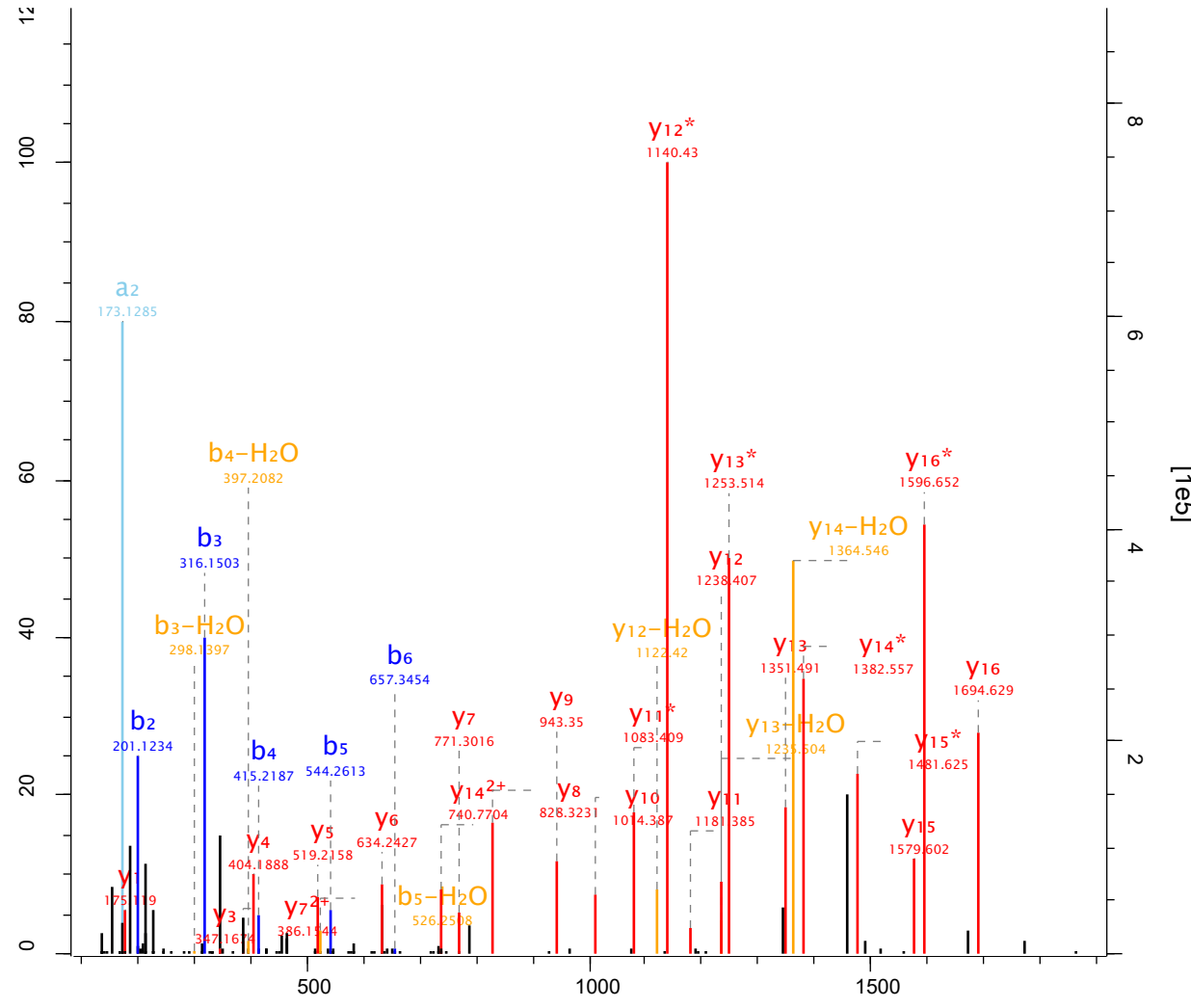
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Raw file Scan Method Score m/z  
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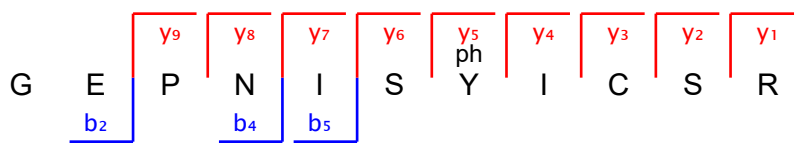
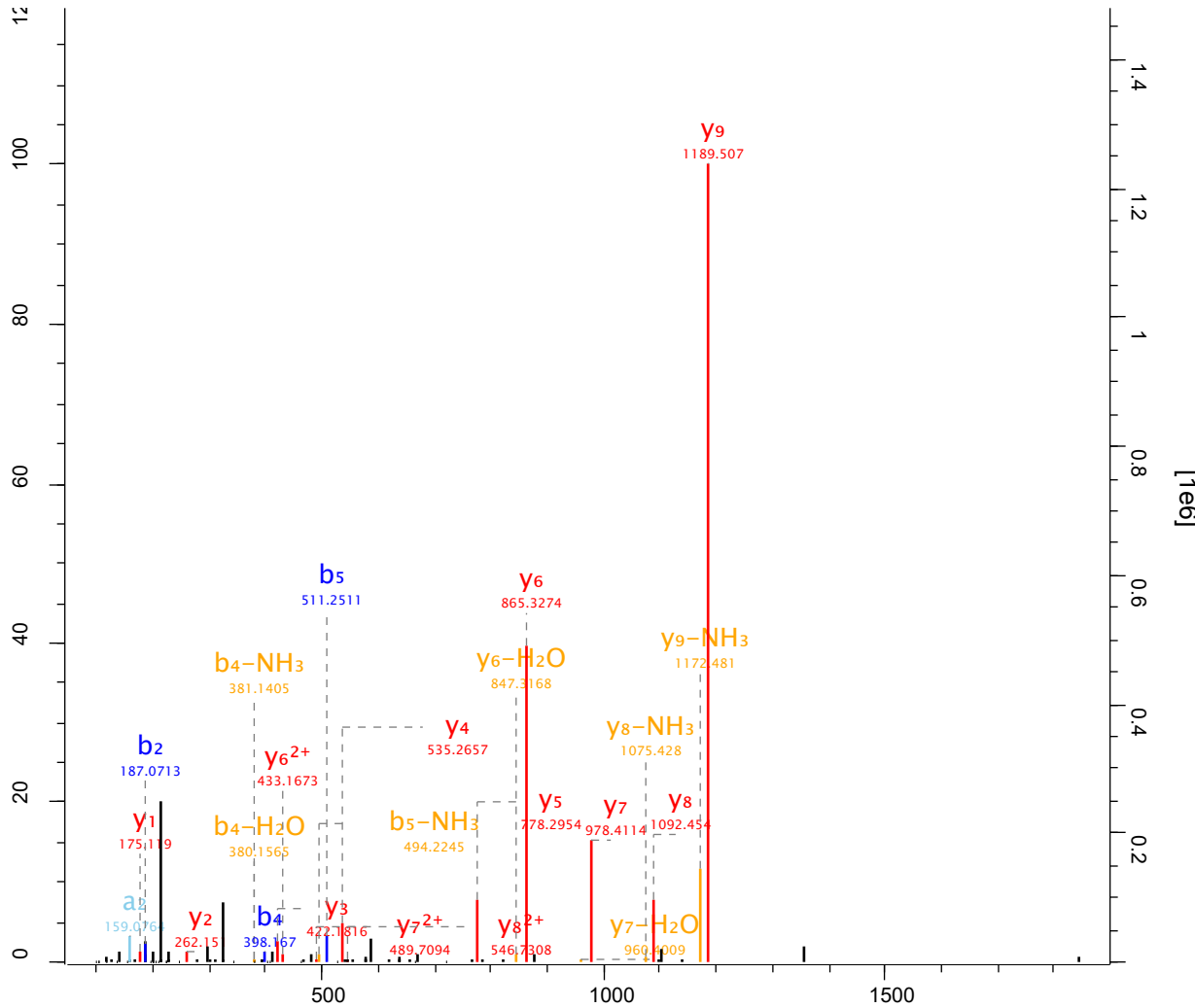


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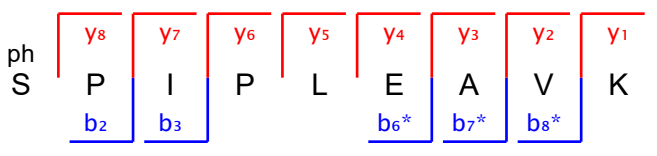
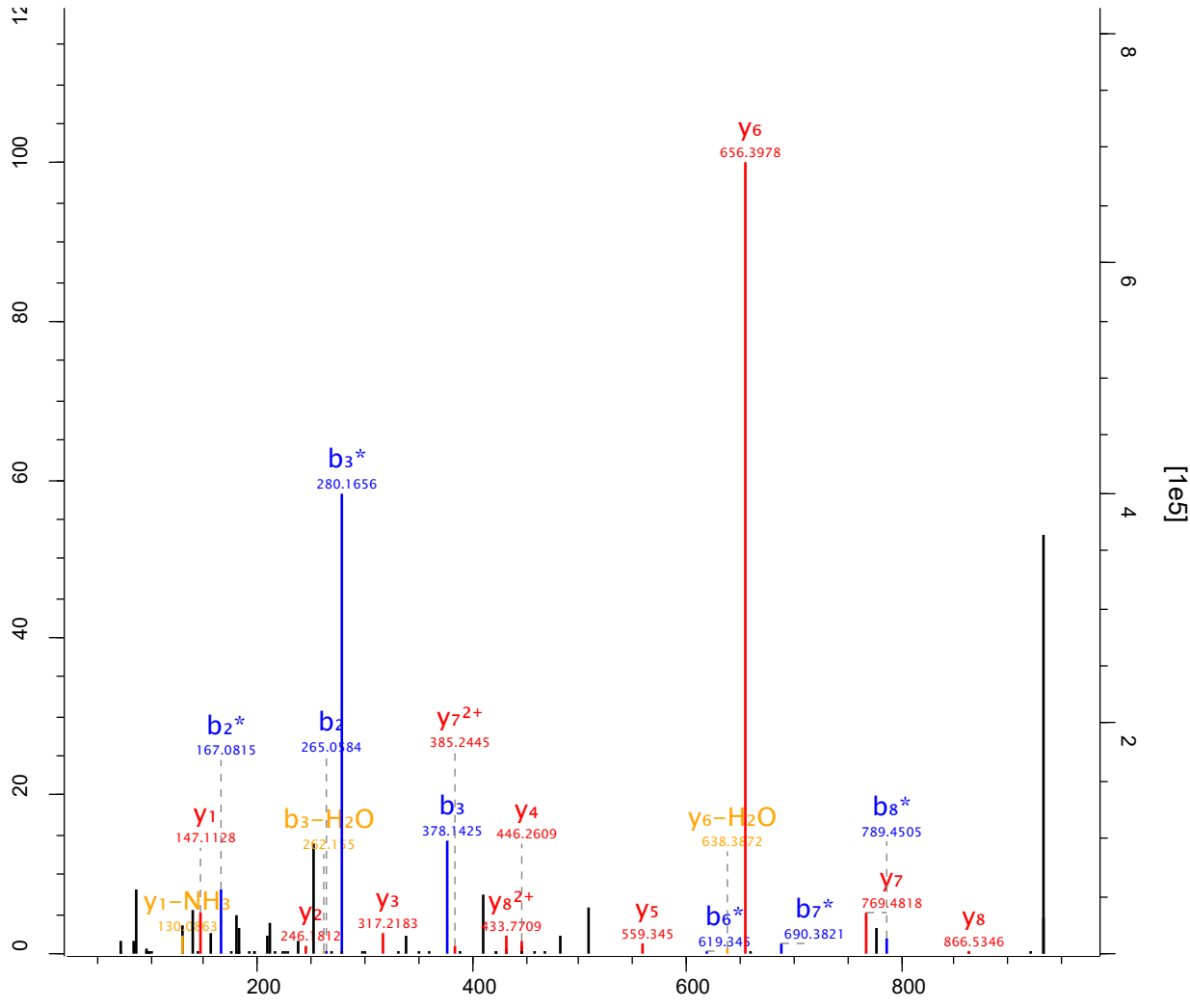




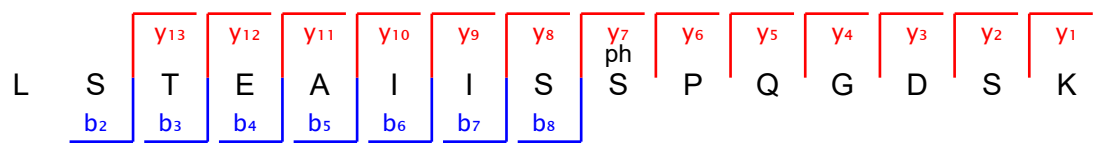
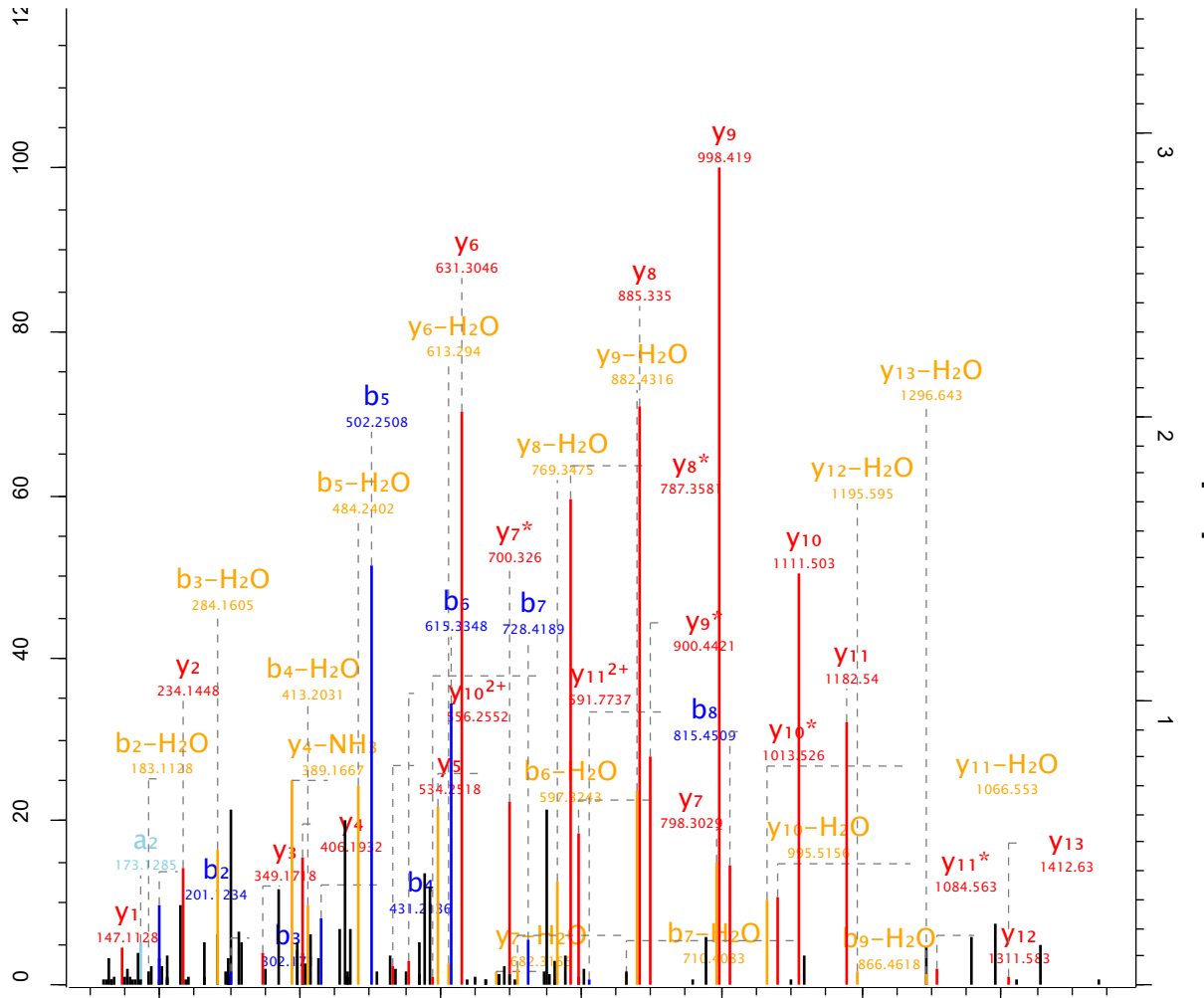
Raw file Scan Method Score m/z  
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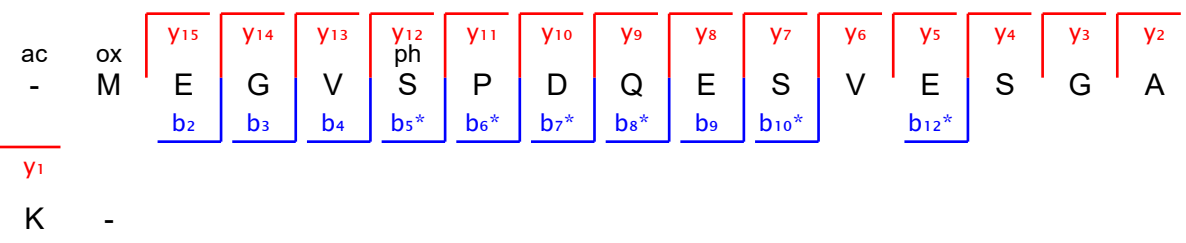
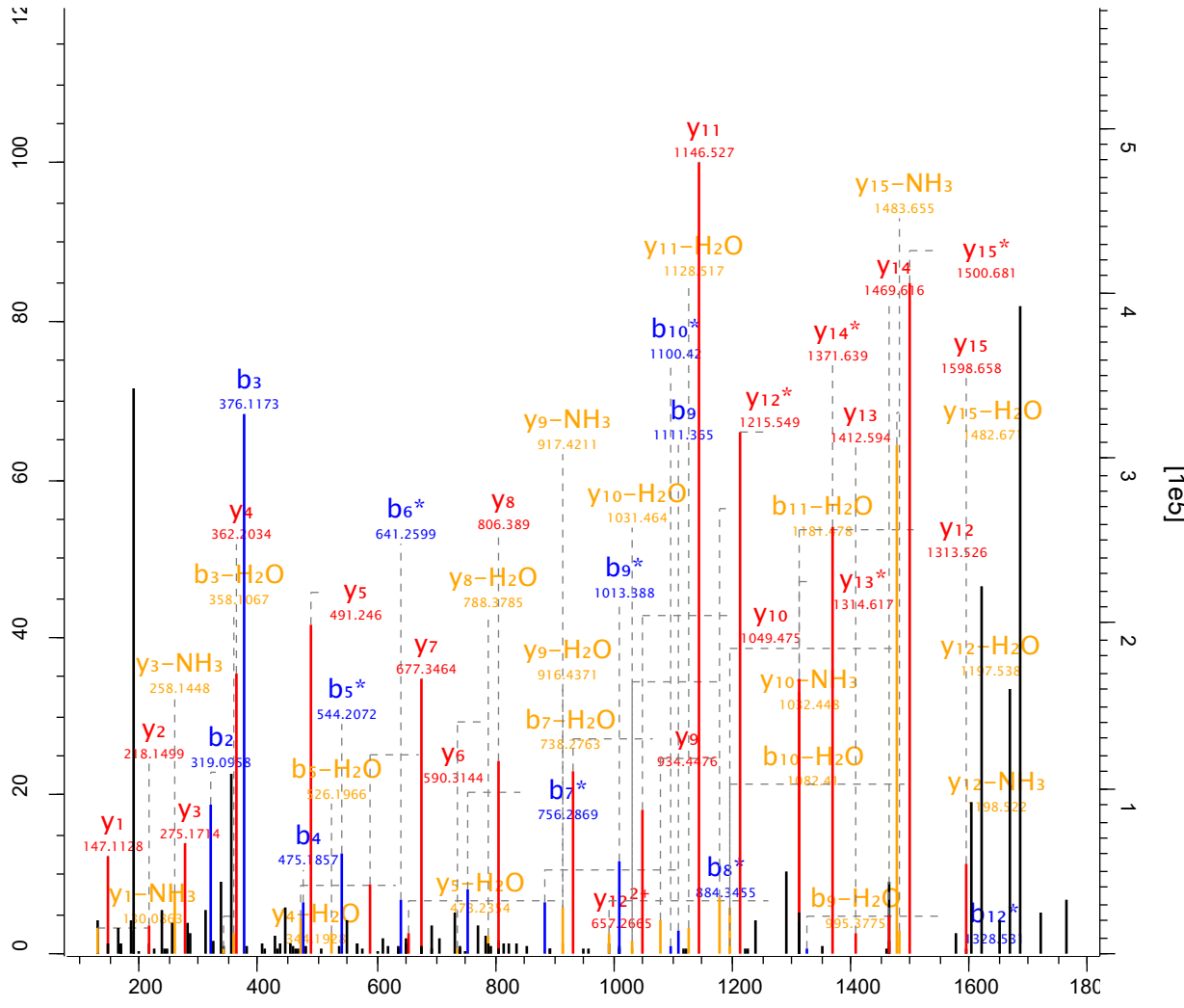
Raw file Scan Method Score m/z  
 sys\_15\_1 20659 FTMS; HCD 88.34 517.27



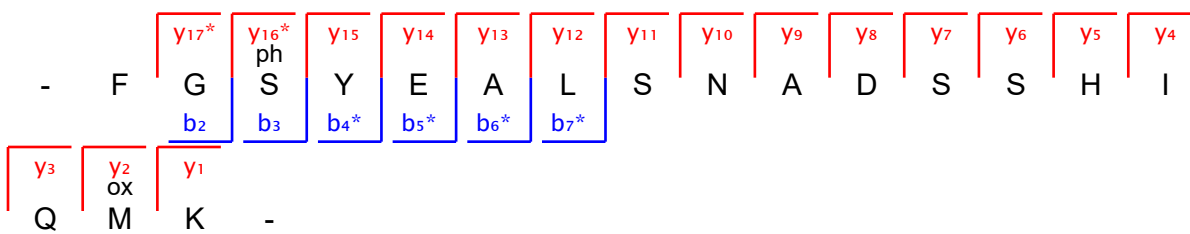
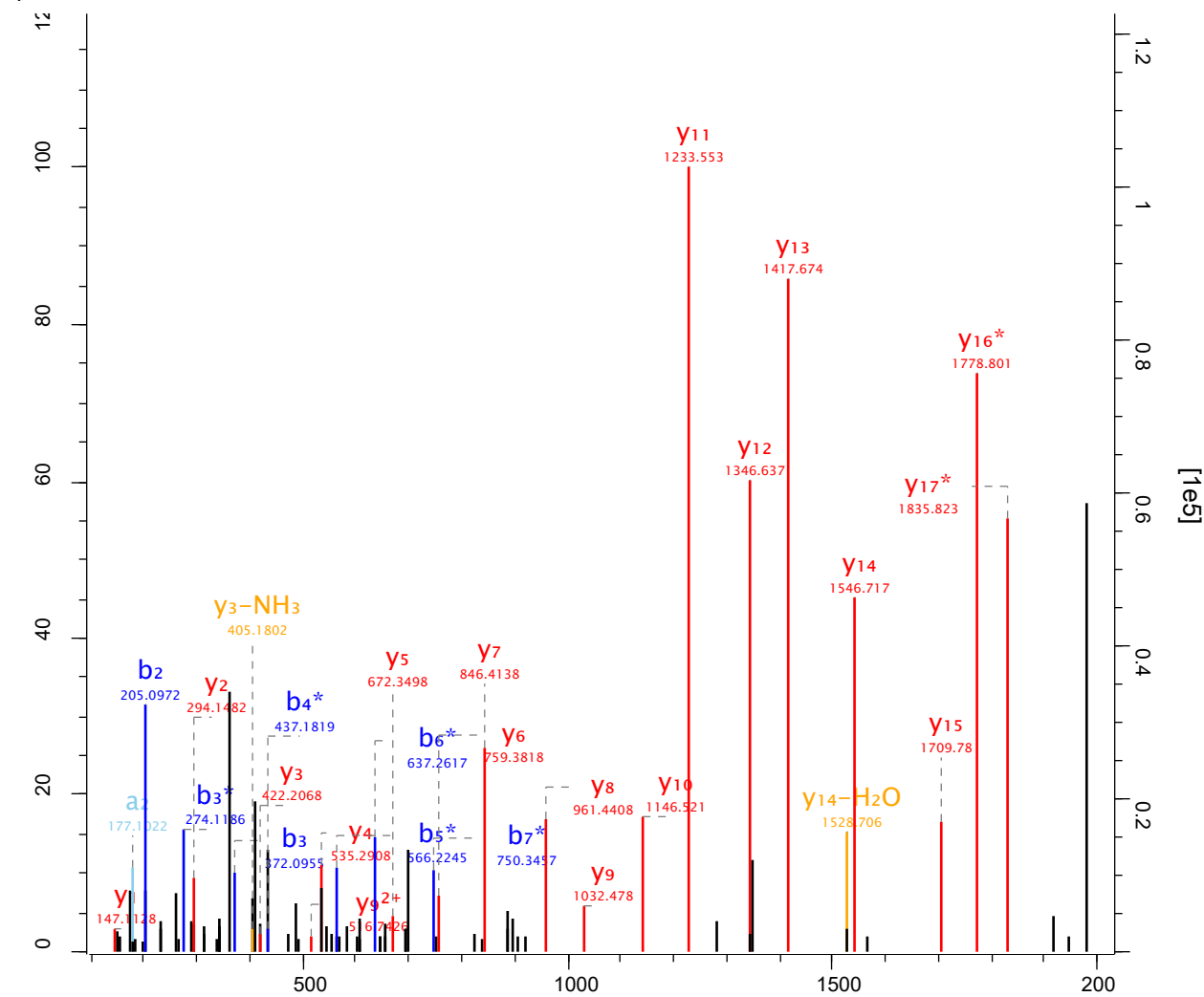
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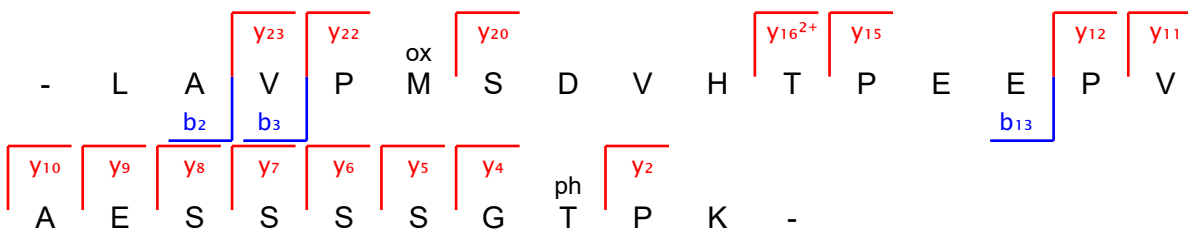
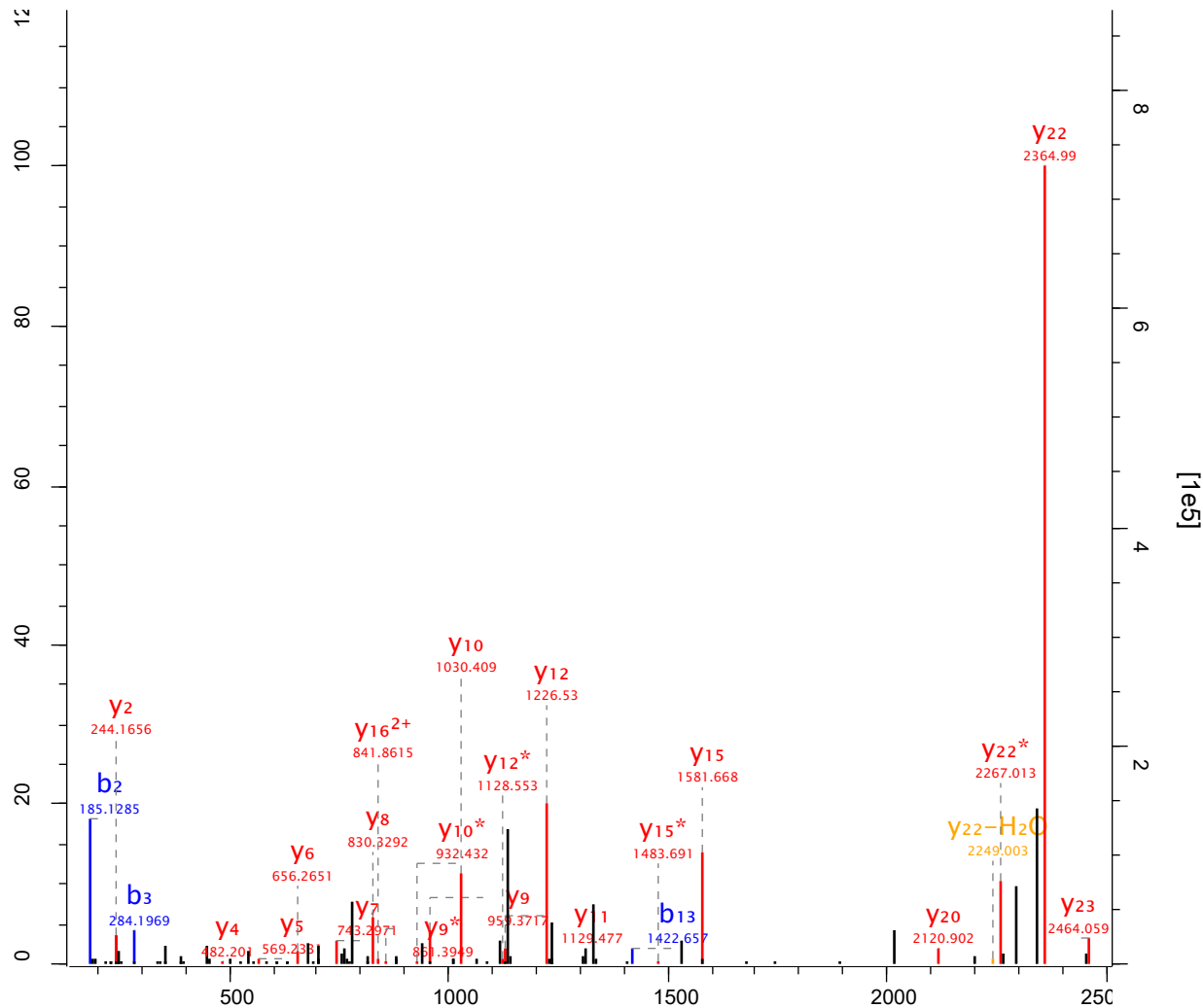
Raw file Scan Method Score m/z  
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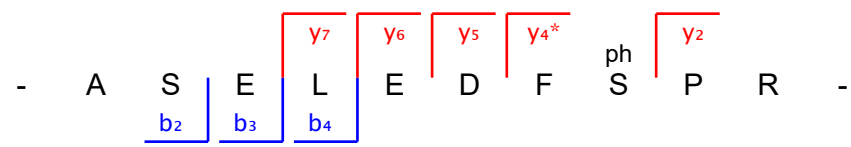
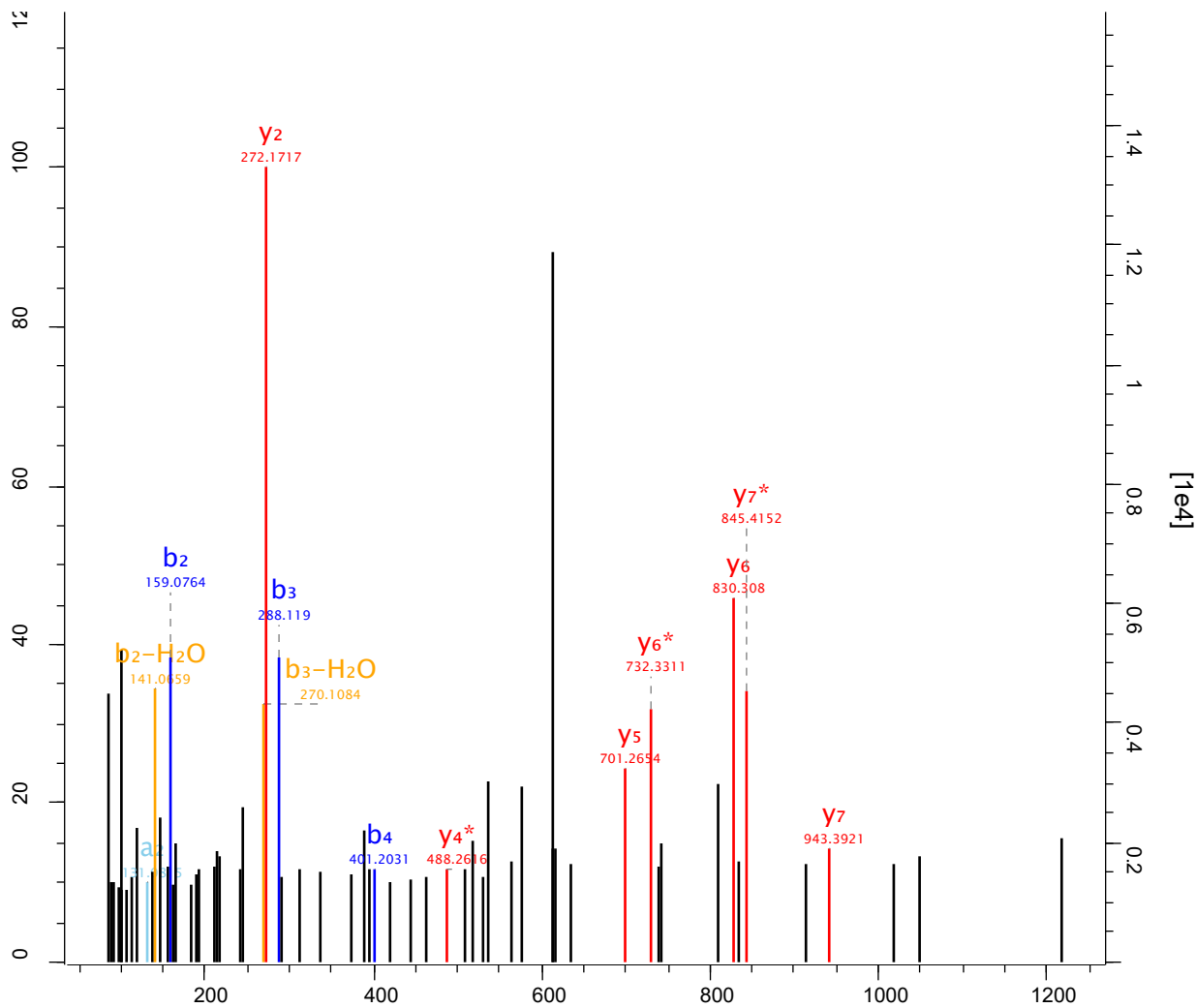
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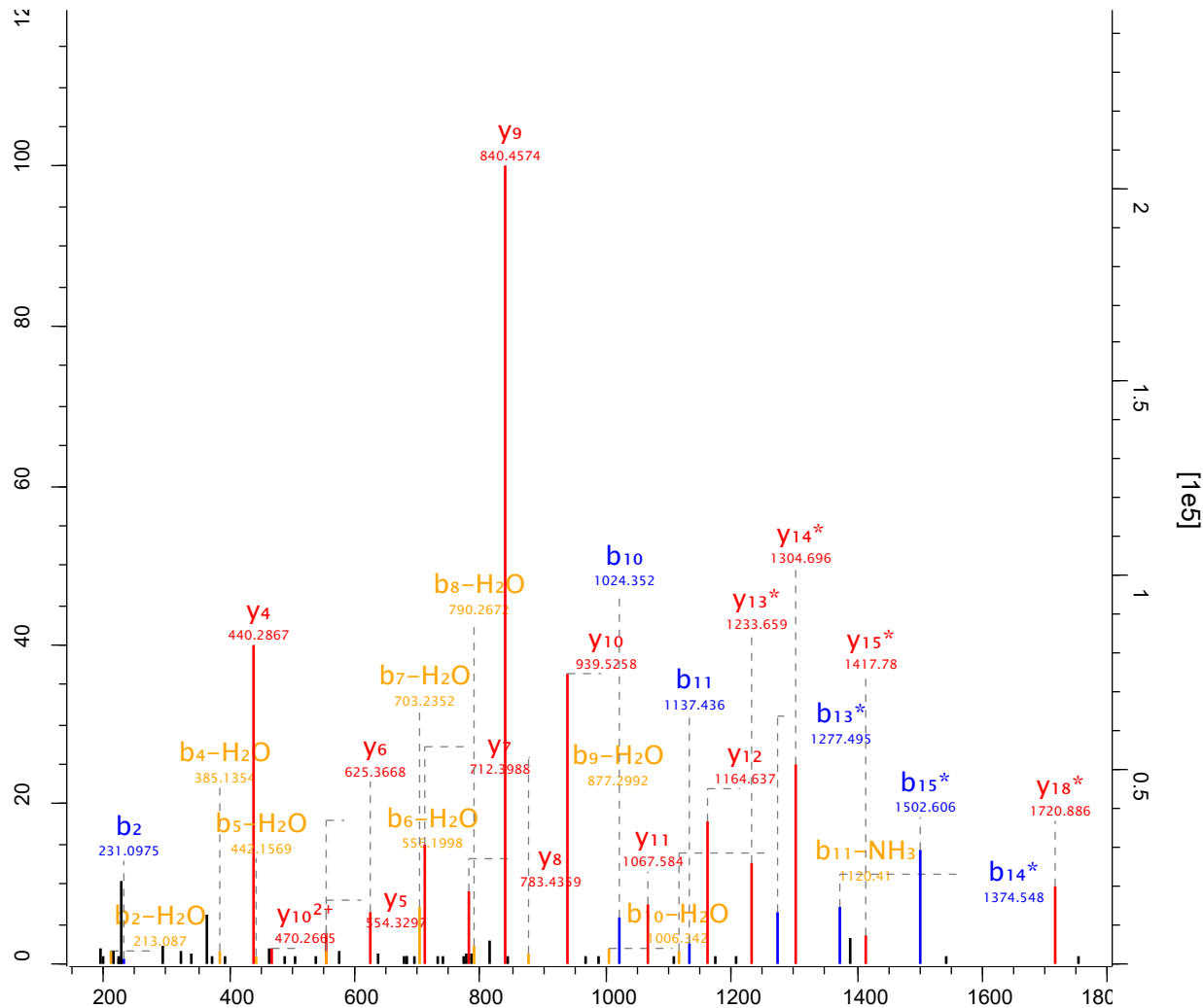
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
 sys\_15\_1 20955 FTMS; HCD 62.09 615.76



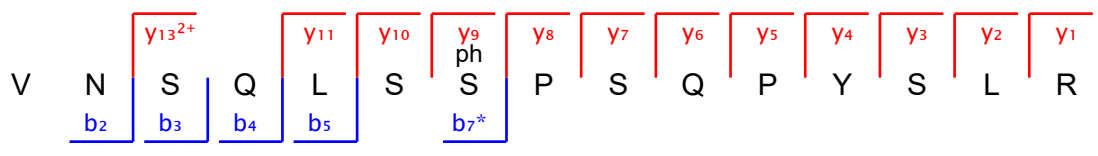
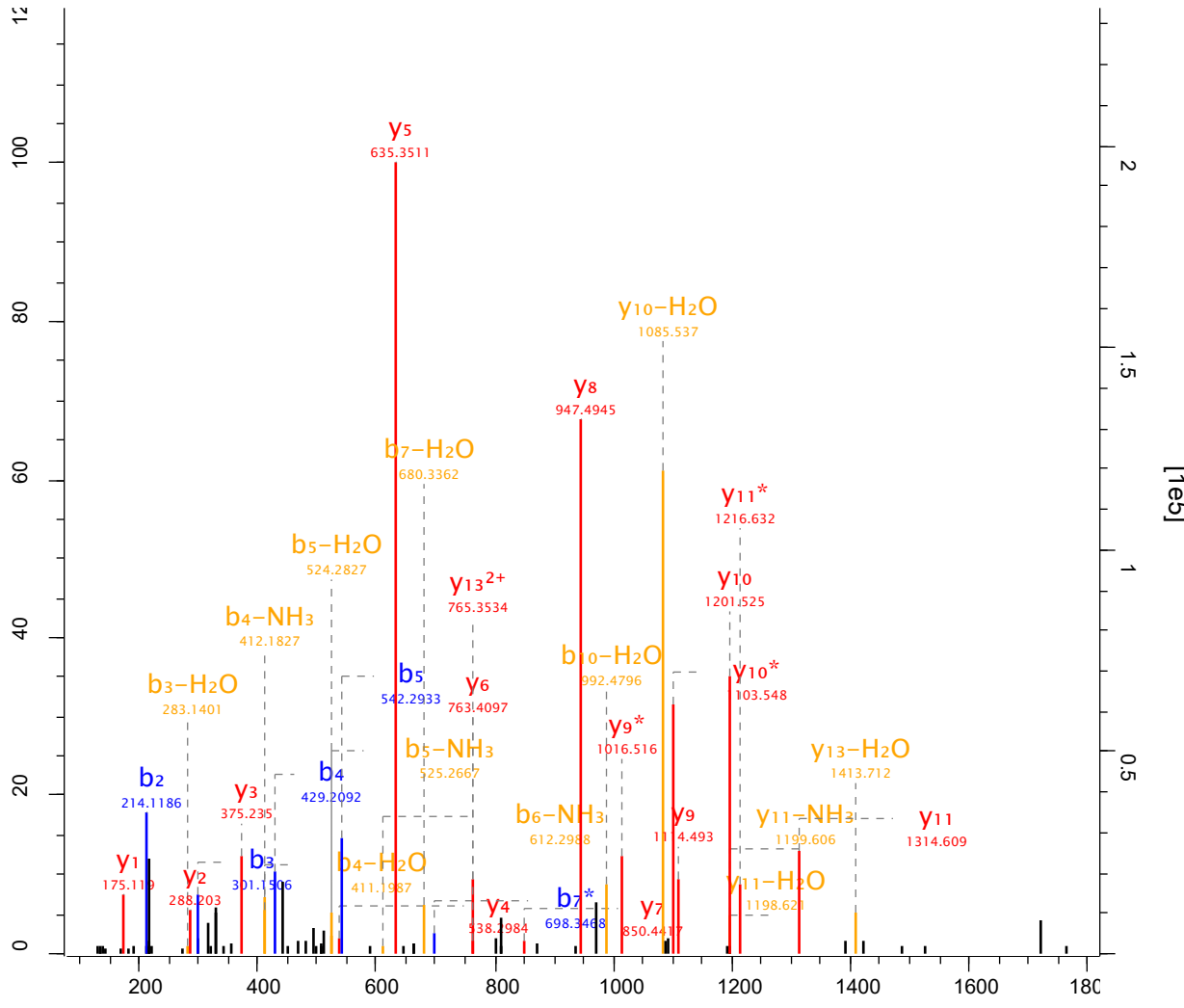
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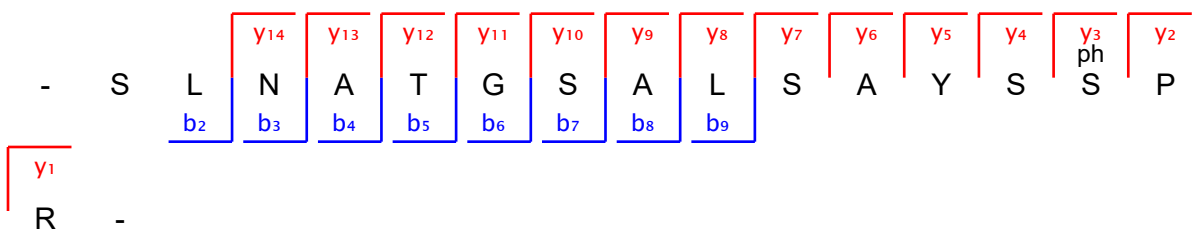
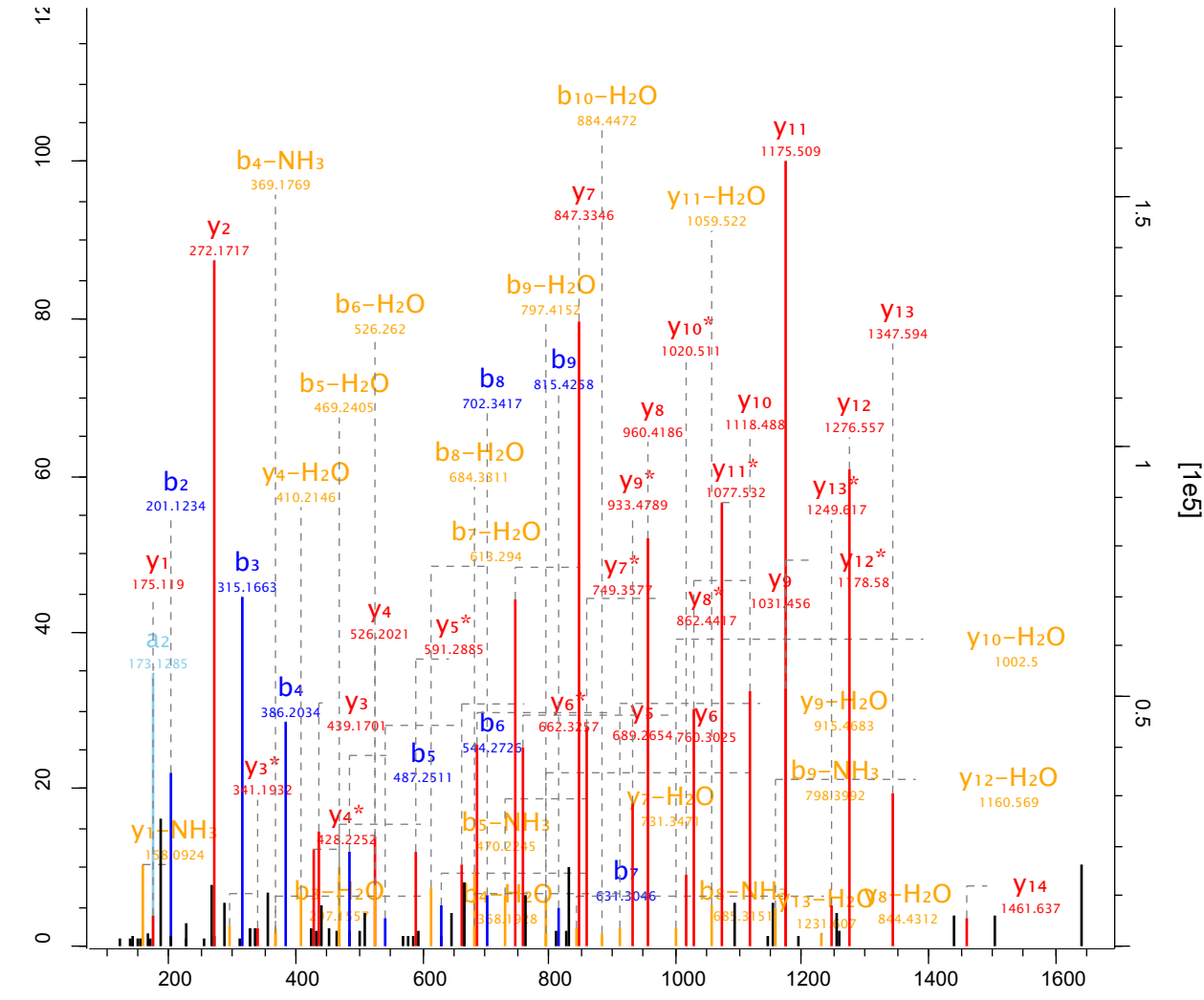
- E T G D G N ox S S E I A S P Q  
 b2 b10 b11 b13\* b14\* b15\* y18\* y15\* y14\* y13\* ph y12 y11  
 y10 y9 y8 y7 y6 y5 y4  
 V G A S A N P P V K -



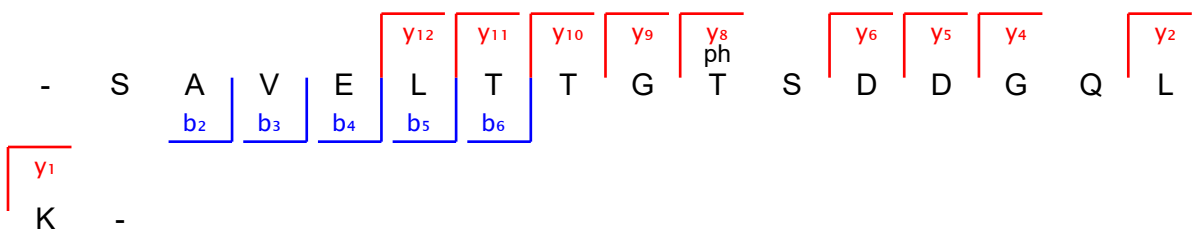
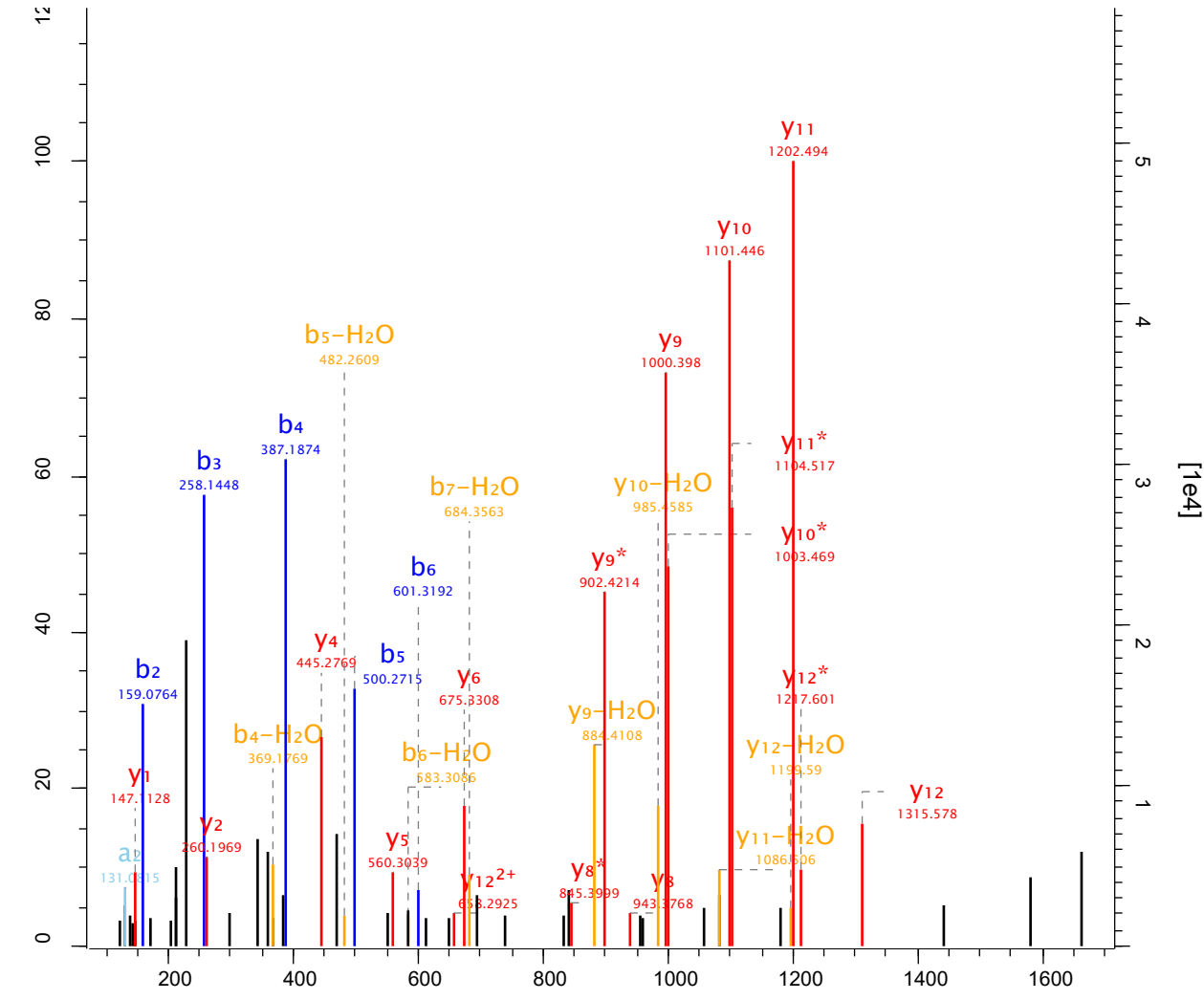
Raw file Scan Method Score m/z  
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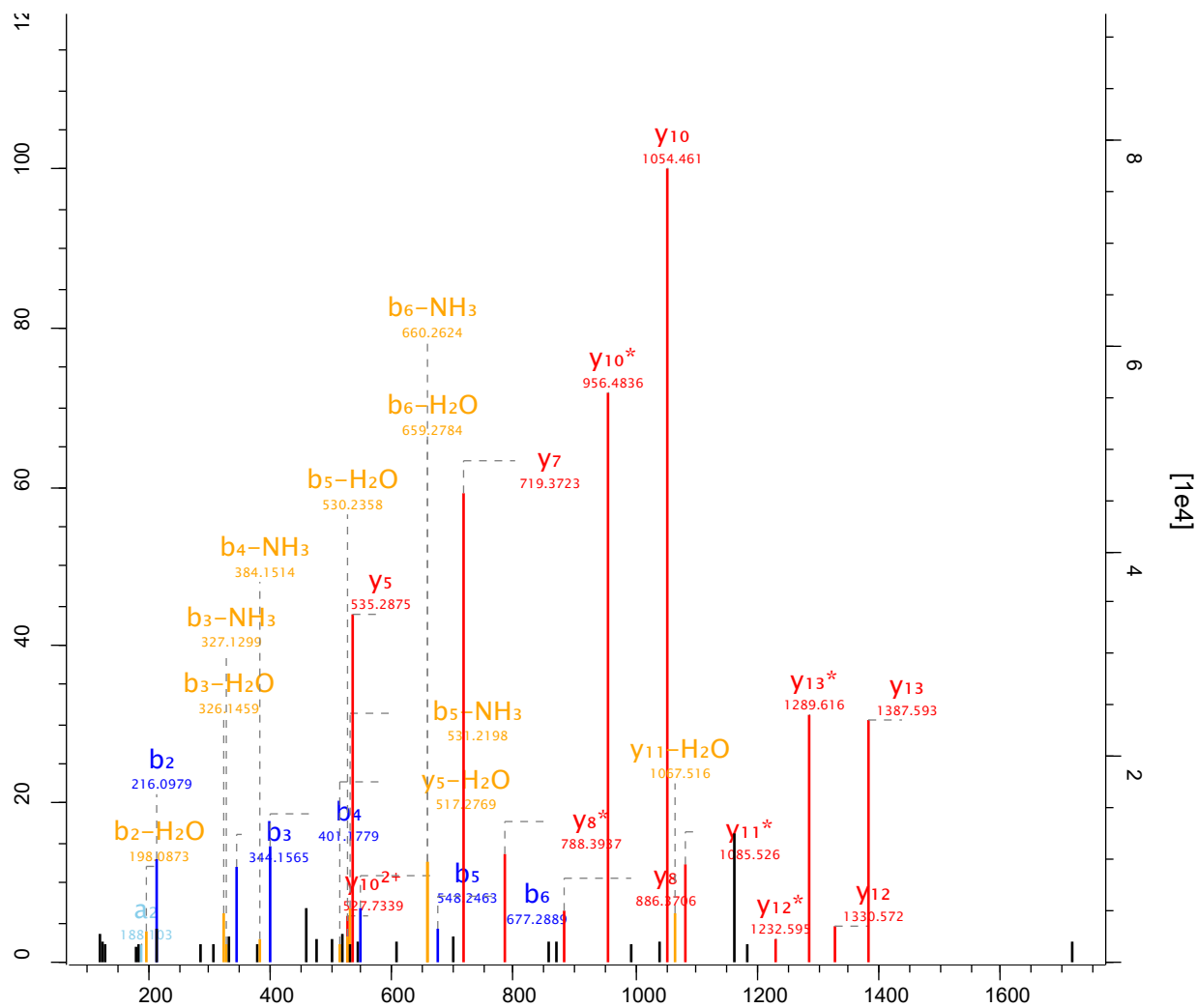
Raw file Scan Method Score m/z  
 sys\_15\_1 21530 FTMS; HCD 279.97 831.38



Raw file Scan Method Score m/z  
 sys\_15\_1 21543 FTMS; HCD 164.2 851.38



Raw file Scan Method Score m/z  
 sys\_15\_1 21660 FTMS; HCD 104.84 865.87

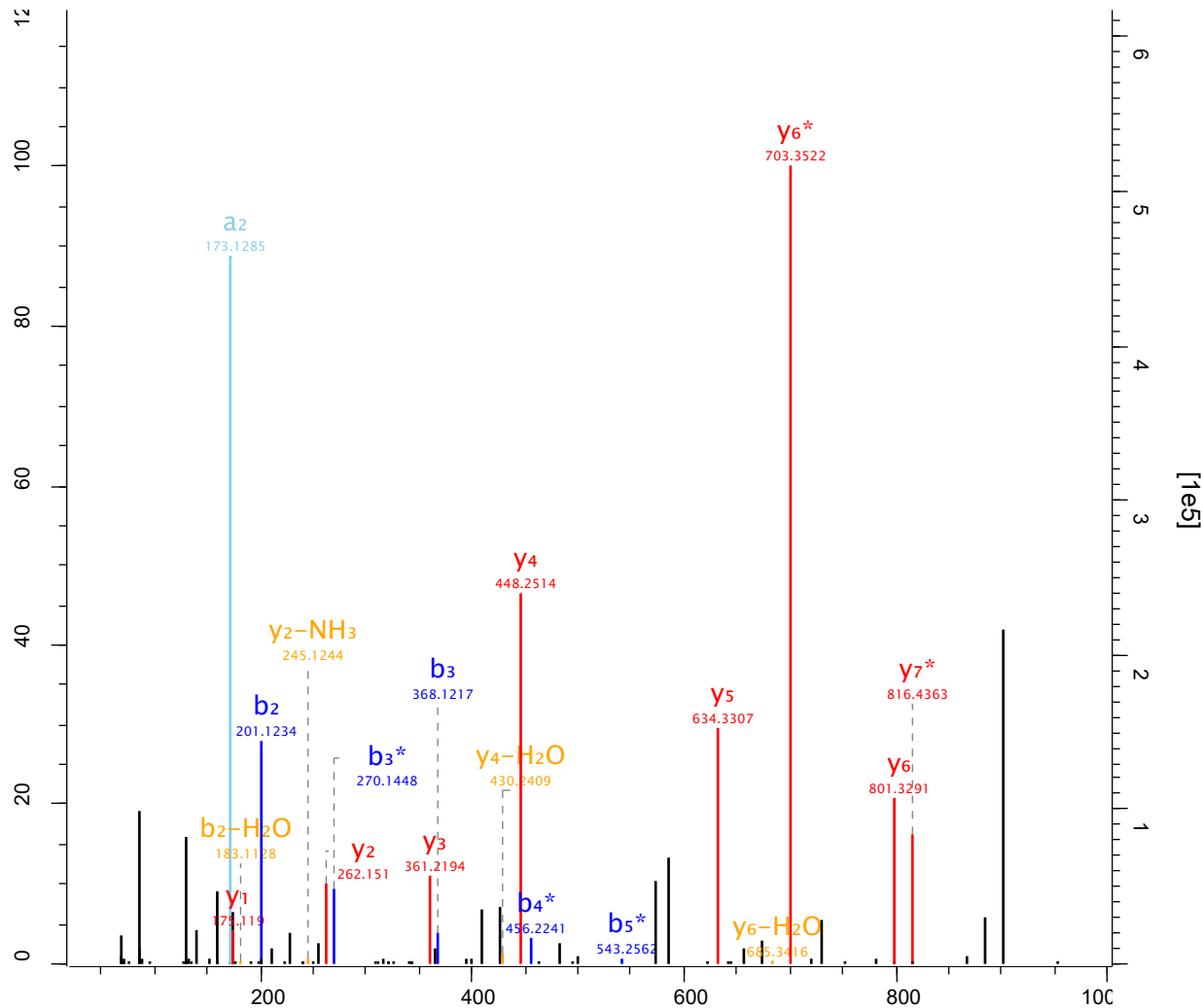


- N T Q G F E P A S P S P G S F

b<sub>2</sub>
b<sub>3</sub>
b<sub>4</sub>
b<sub>5</sub>
b<sub>6</sub>
y<sub>13</sub>
y<sub>12</sub>
y<sub>11</sub>\*
y<sub>10</sub>
y<sub>8</sub><sub>ph</sub>
y<sub>7</sub>
y<sub>5</sub>

K -

Raw file Scan Method Score m/z  
 sys\_15\_1 21760 FTMS; HCD 94.36 501.23

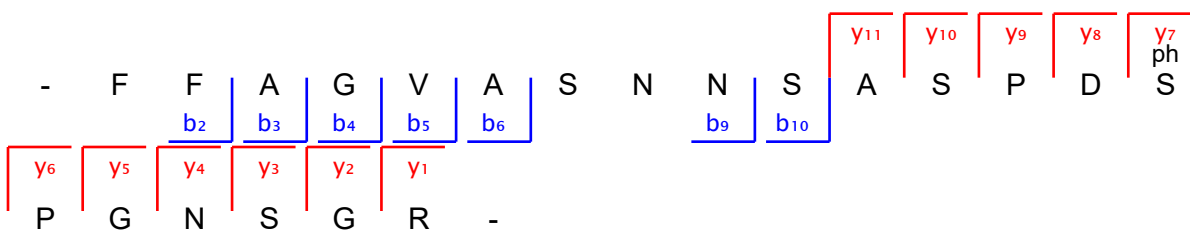
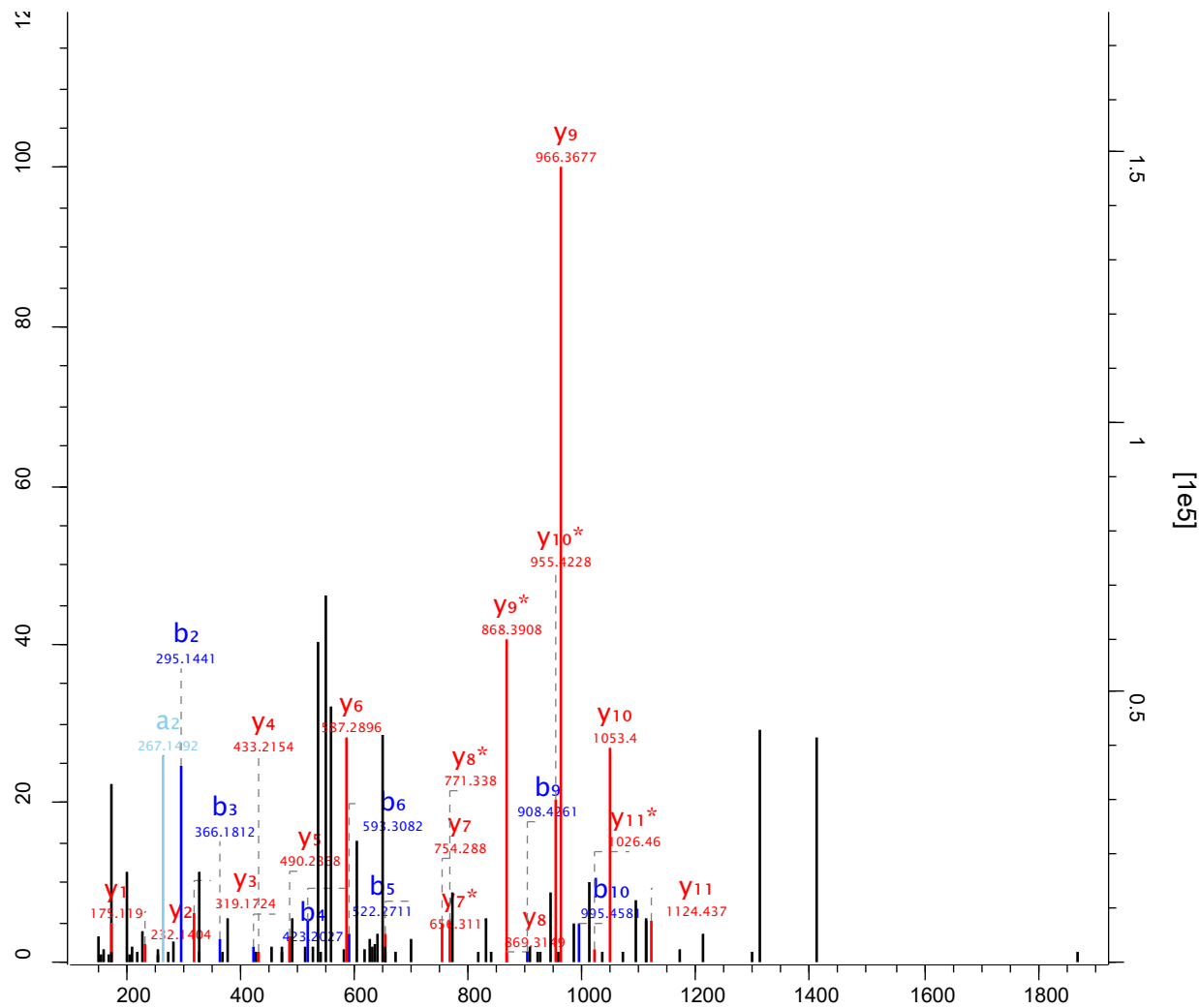


- S L W S V S R -

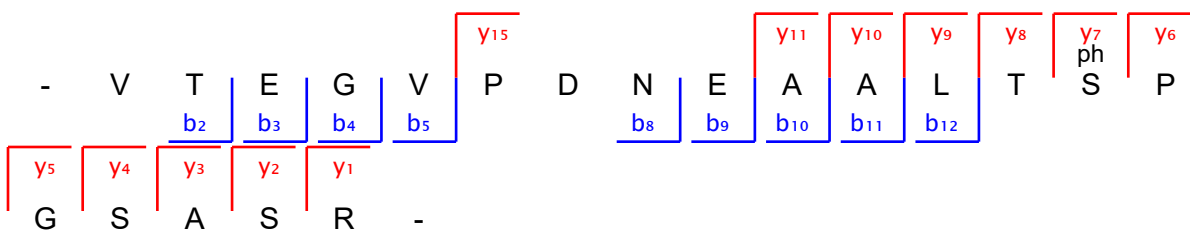
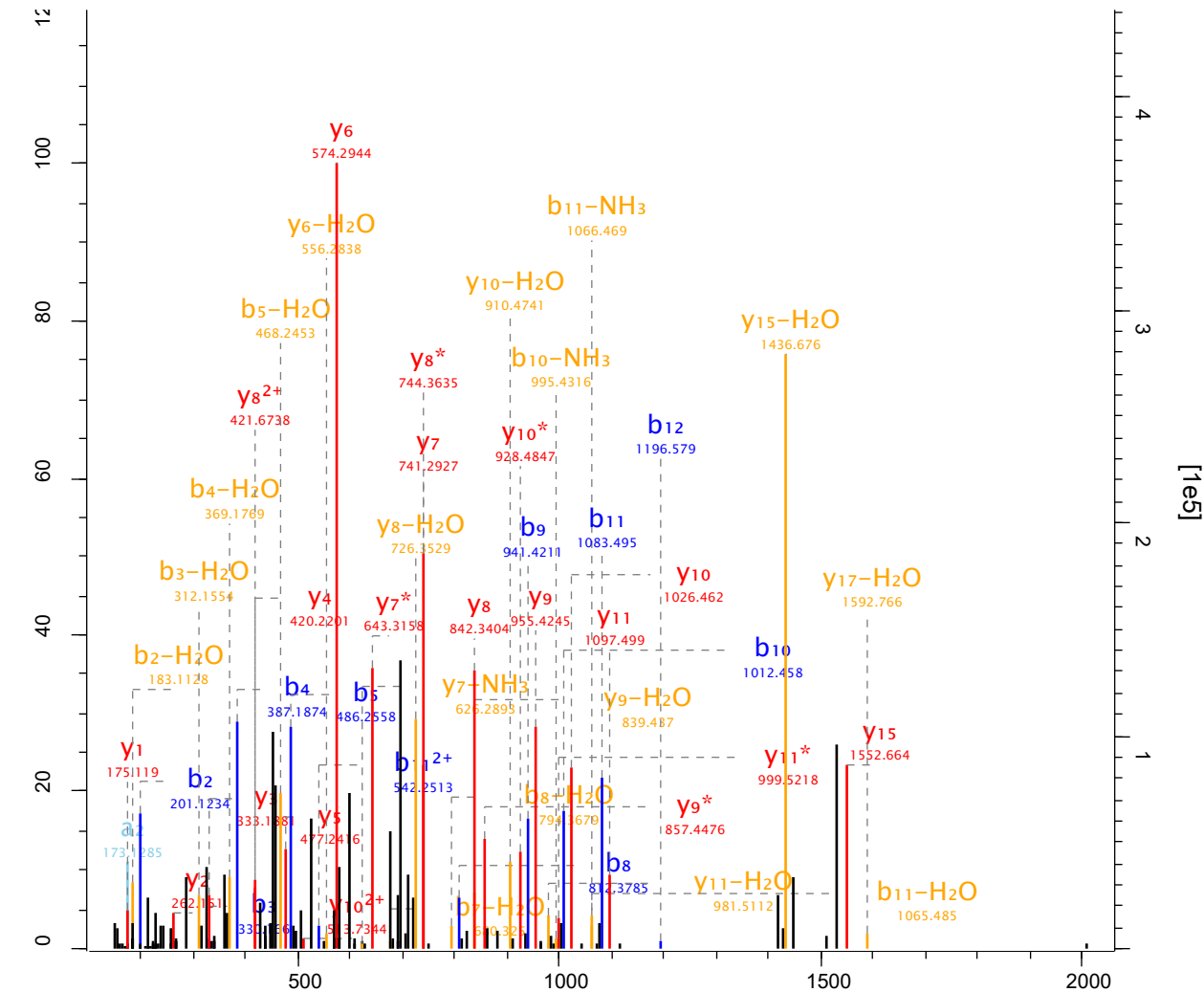
y<sub>7</sub>\*
y<sub>6</sub> ph
y<sub>5</sub>
y<sub>4</sub>
y<sub>3</sub>
y<sub>2</sub>
y<sub>1</sub>

b<sub>2</sub>
b<sub>3</sub>
b<sub>4</sub>\*
b<sub>5</sub>\*

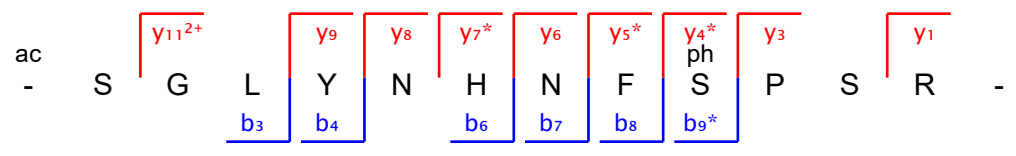
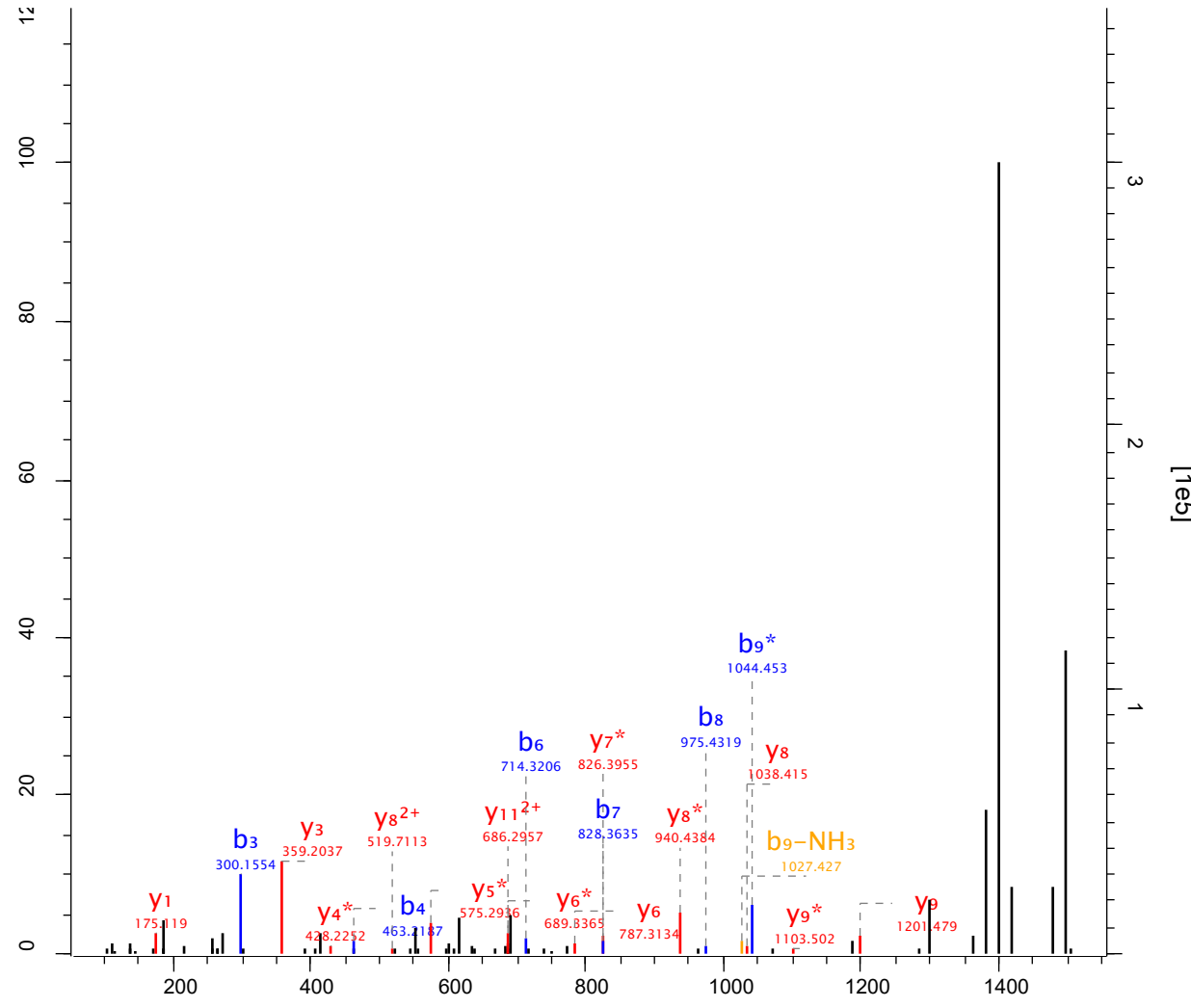
Raw file Scan Method Score m/z  
 sys\_15\_1 21772 FTMS; HCD 64.71 707.3



Raw file Scan Method Score m/z  
 sys\_15\_1 21780 FTMS; HCD 165.4 679.98

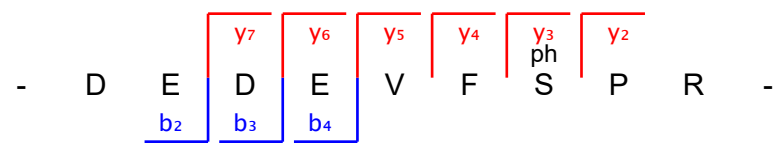
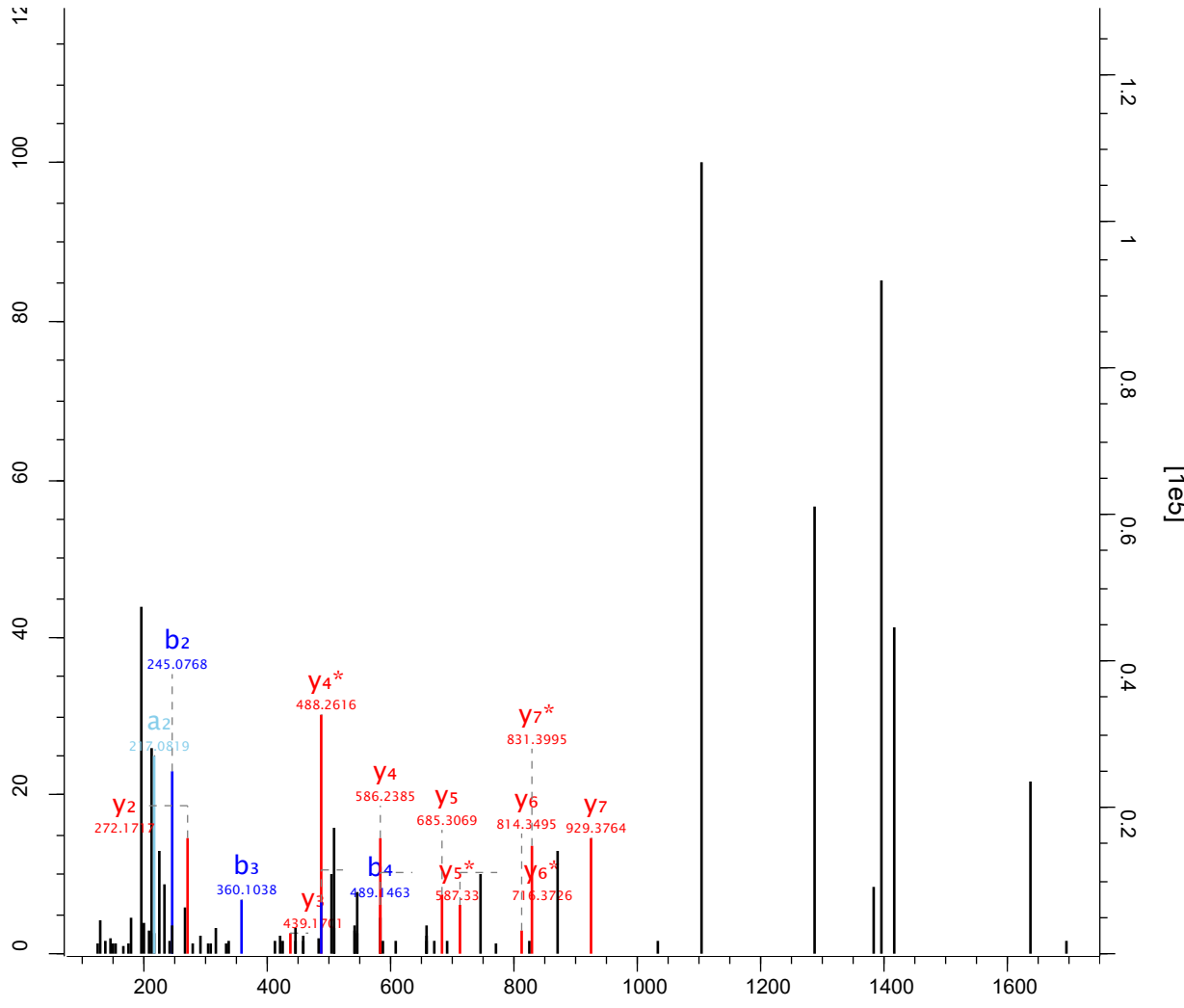


Raw file Scan Method Score m/z  
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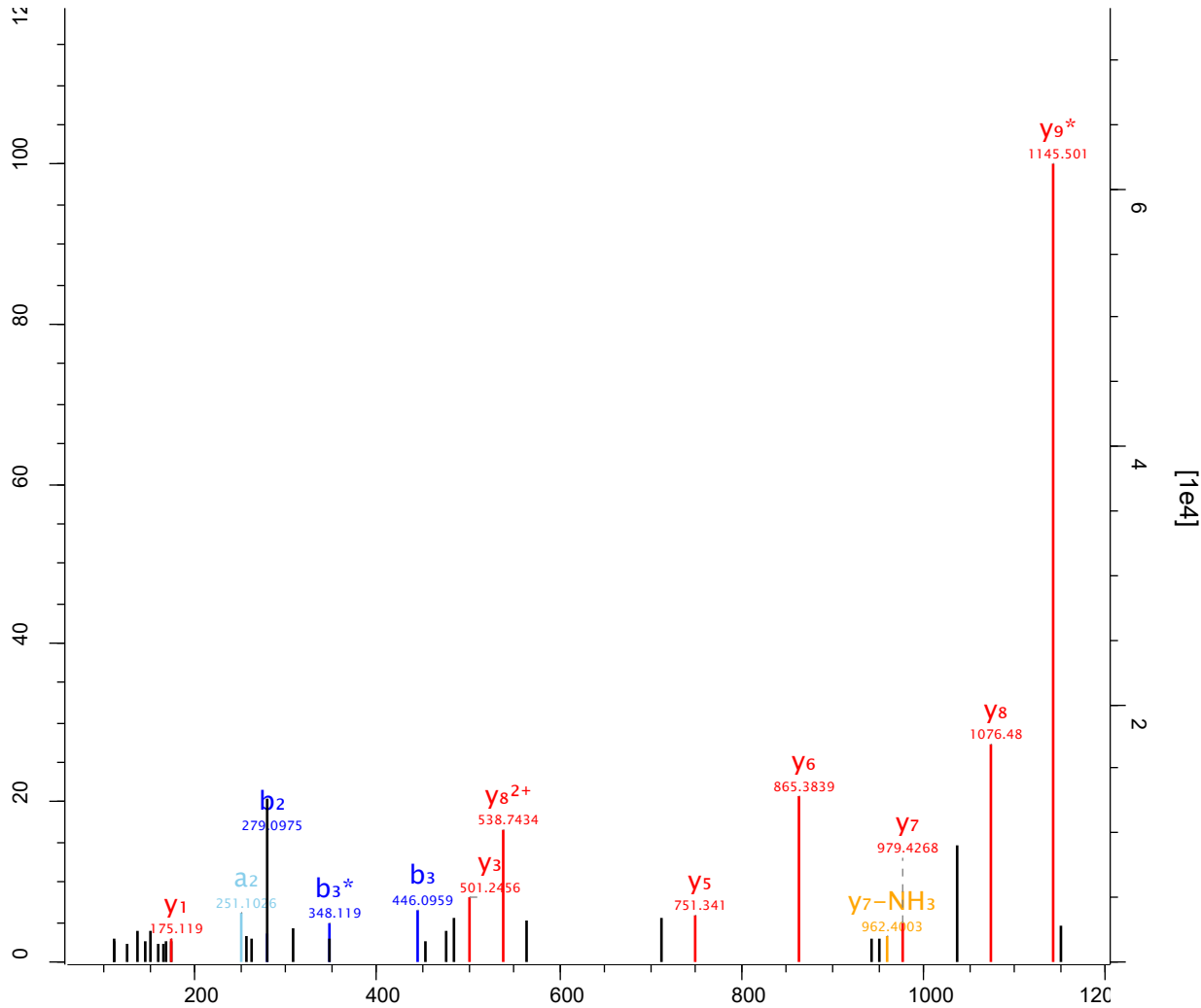




Raw file Scan Method Score m/z  
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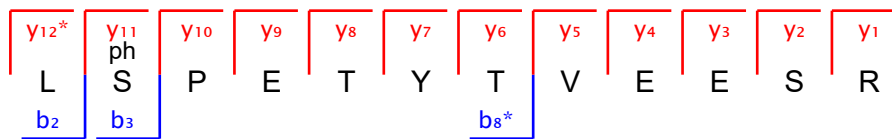
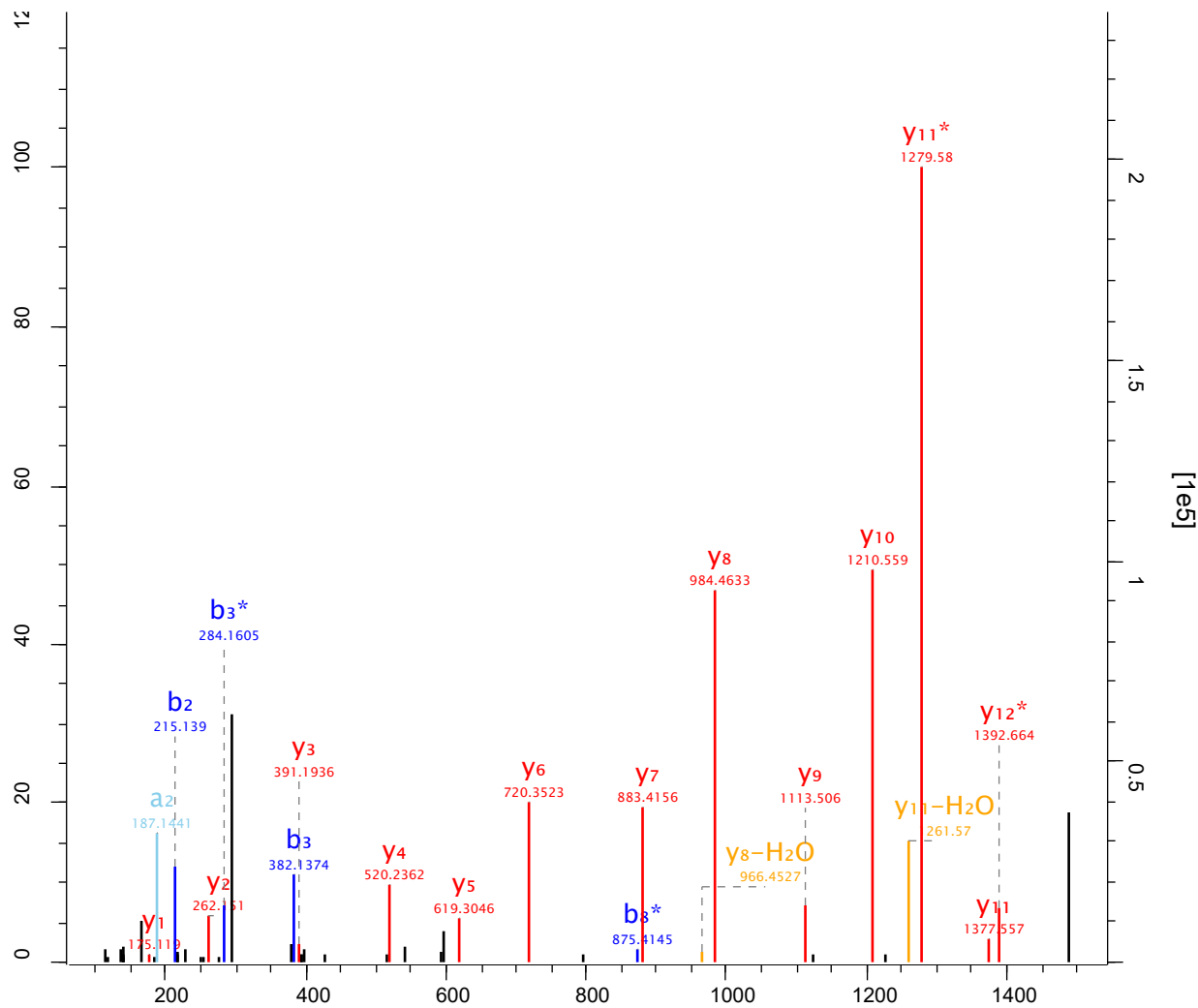
Raw file Scan Method Score m/z  
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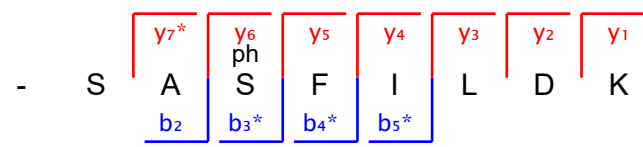
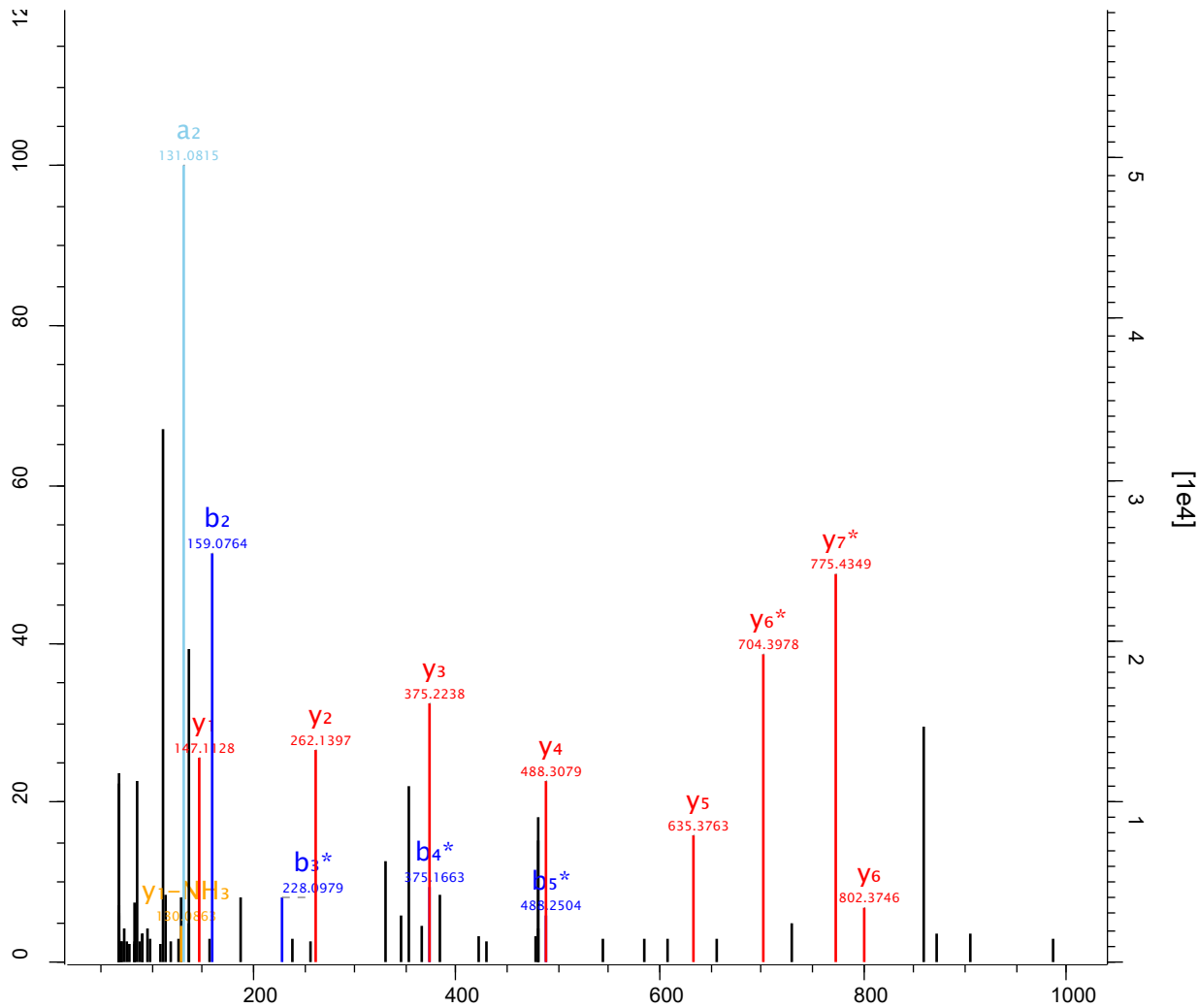
- D Y ph S P N N S Y Y Y R -

b2 b3
y9\*
y8
y7
y6
y5
y3
y1

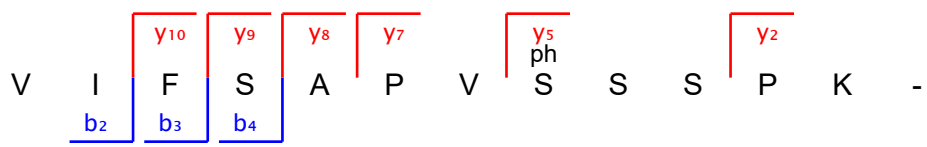
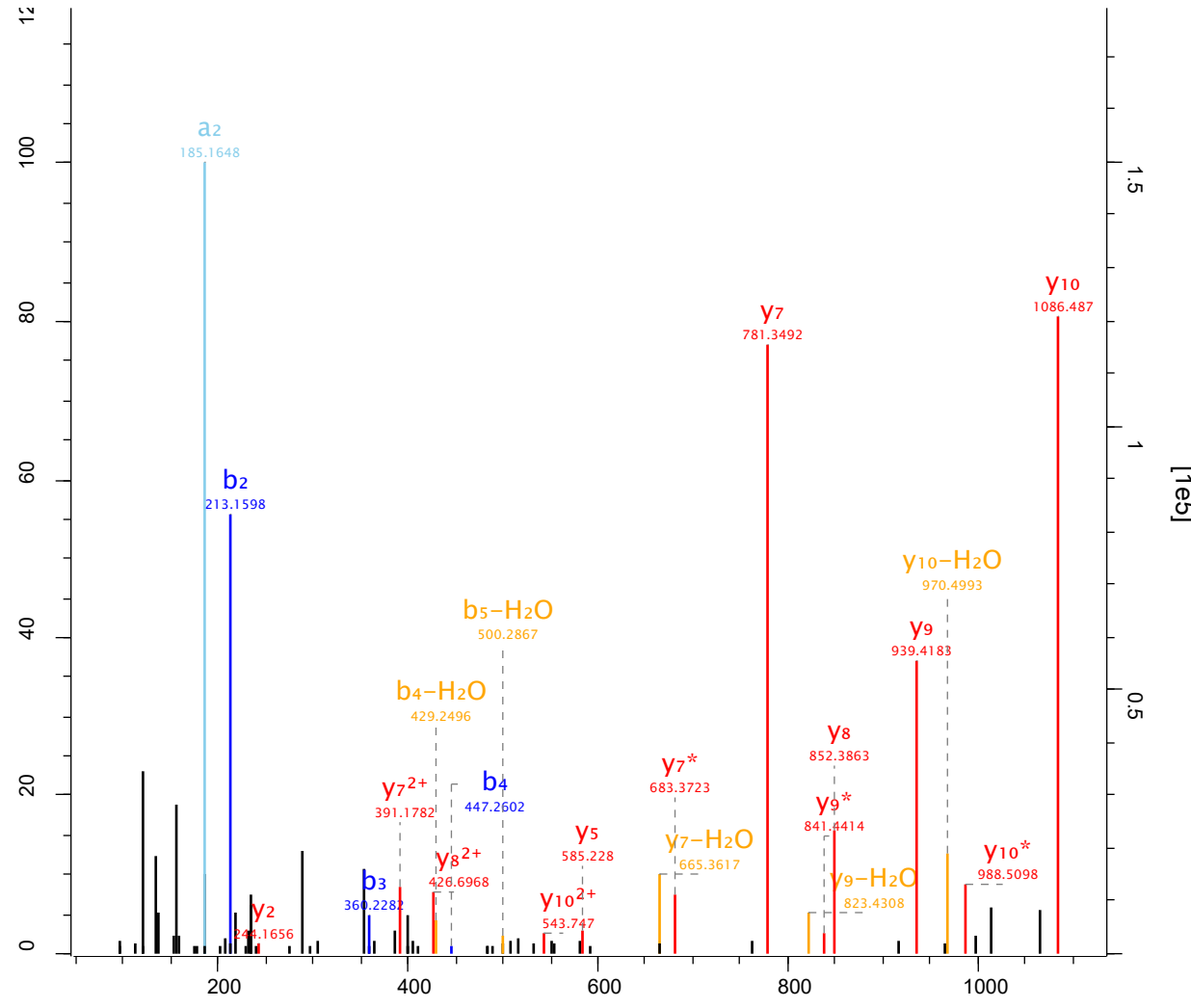
Raw file Scan Method Score m/z  
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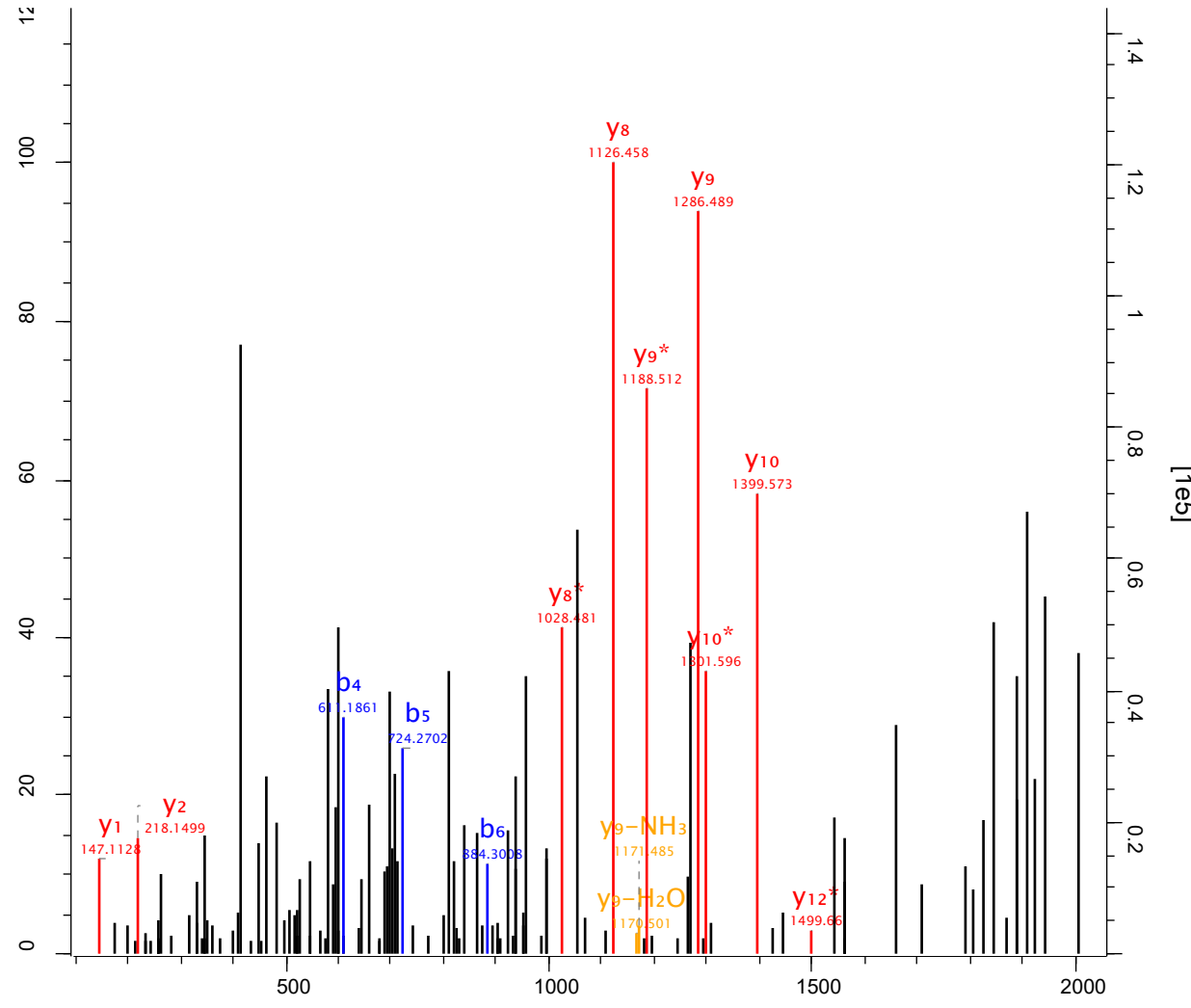
Raw file Scan Method Score m/z  
 sys\_15\_1 22049 FTMS; HCD 69.72 480.73



Raw file Scan Method Score m/z  
 sys\_15\_1 22102 FTMS; HCD 107.99 649.82



Raw file Scan Method Score m/z  
 sys\_15\_1 22126 FTMS; HCD 86.8 1005.38

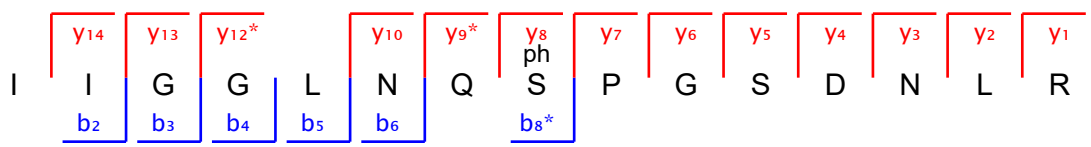
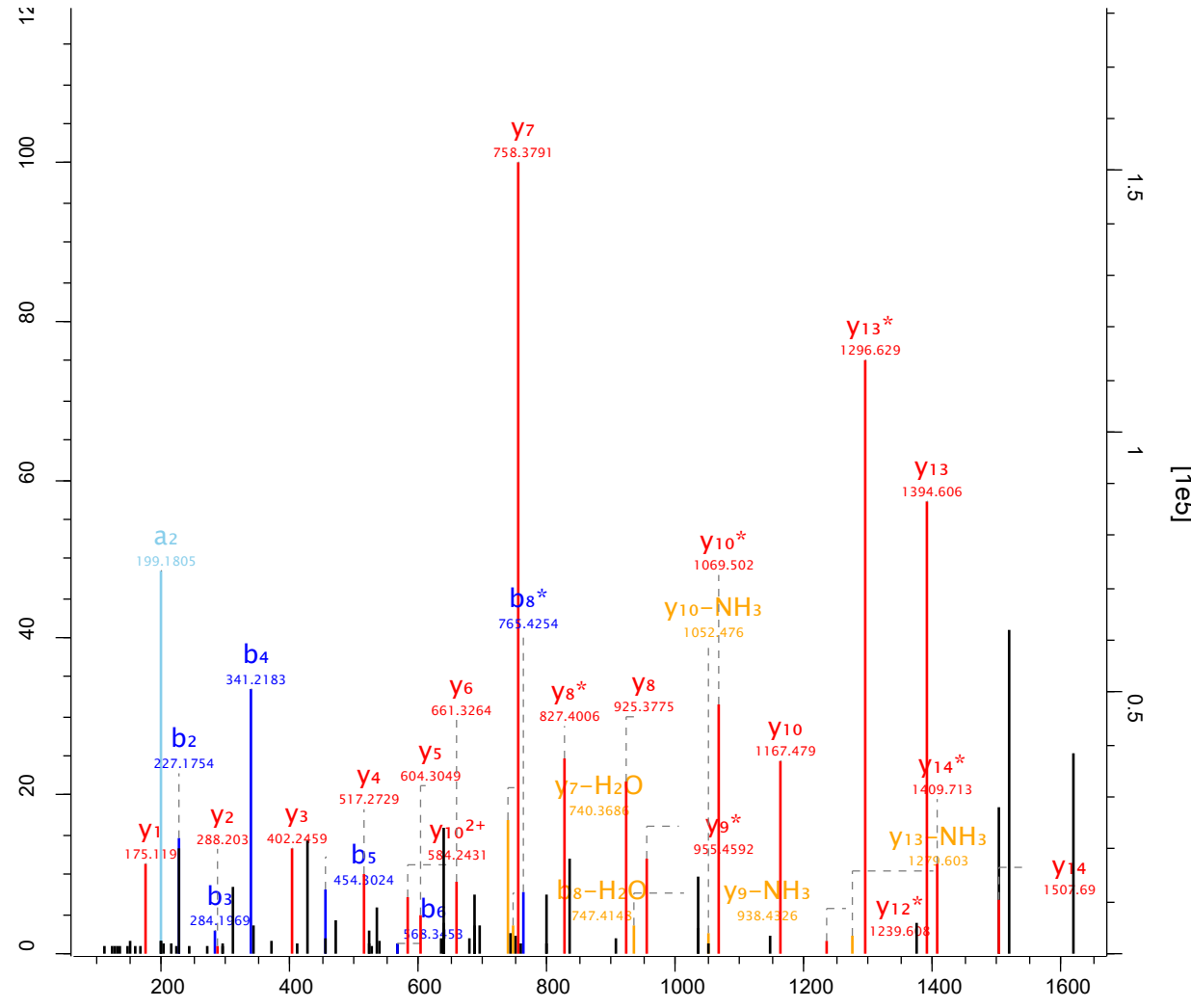


- Q W T D L C K ph S Y L Q E A K -

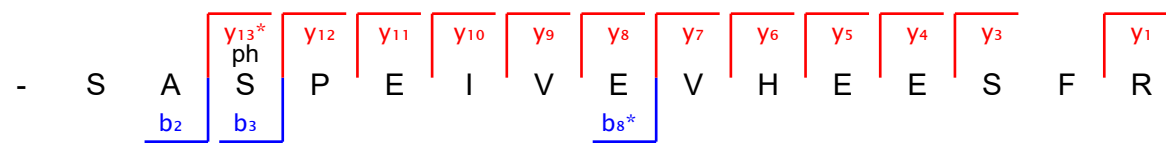
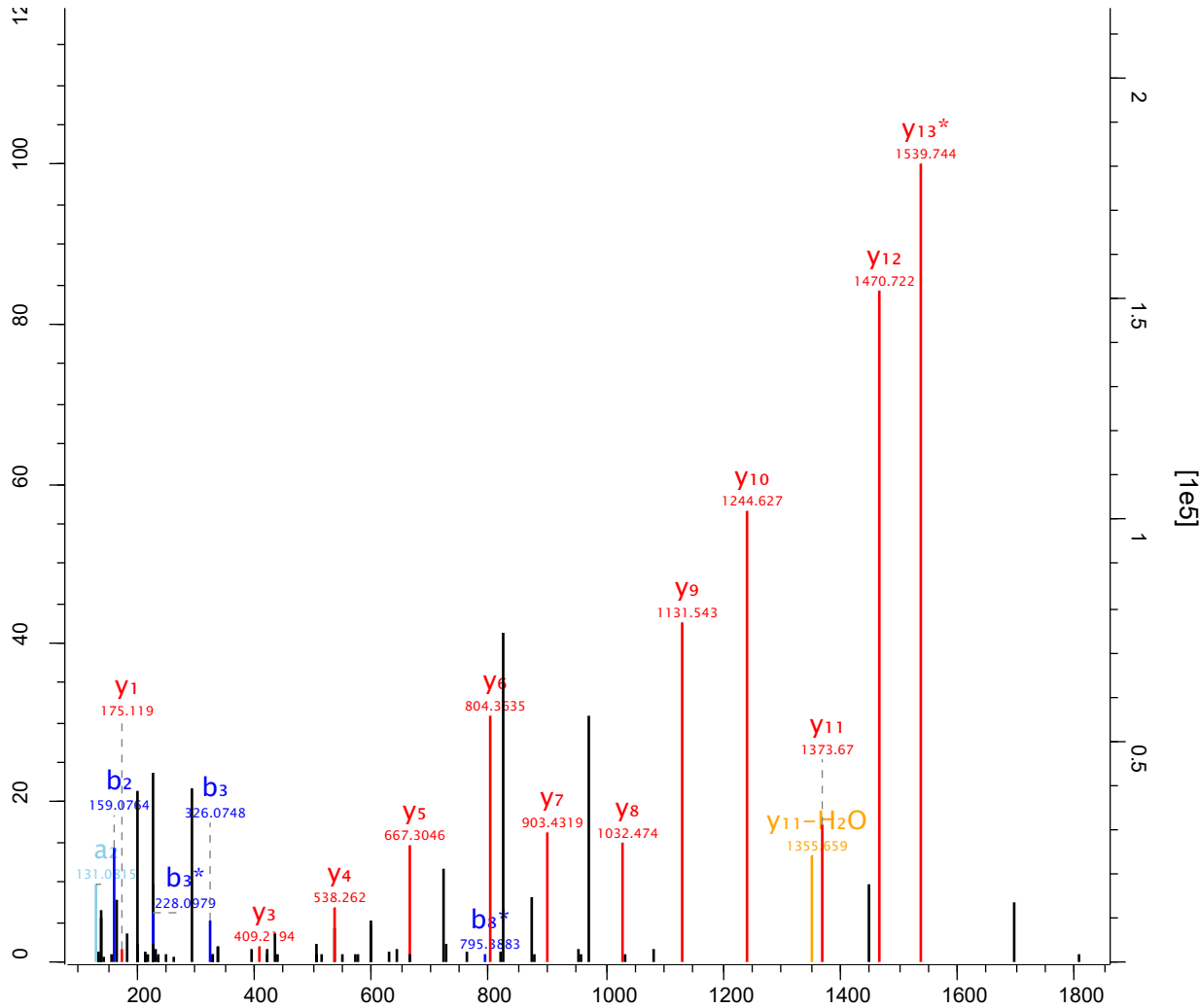
y12\* y10 y9 y8

b4 b5 b6

Raw file Scan Method Score m/z  
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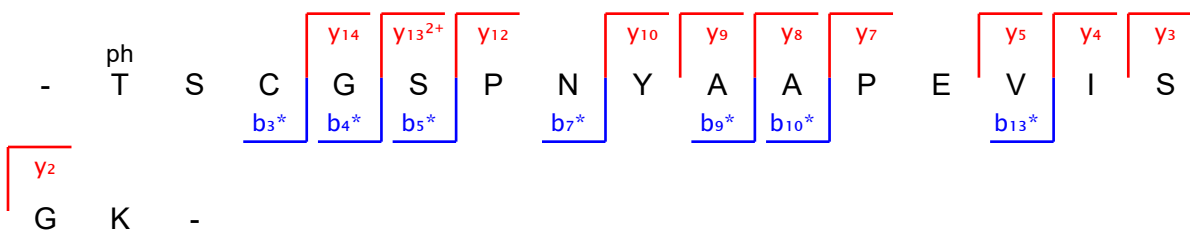
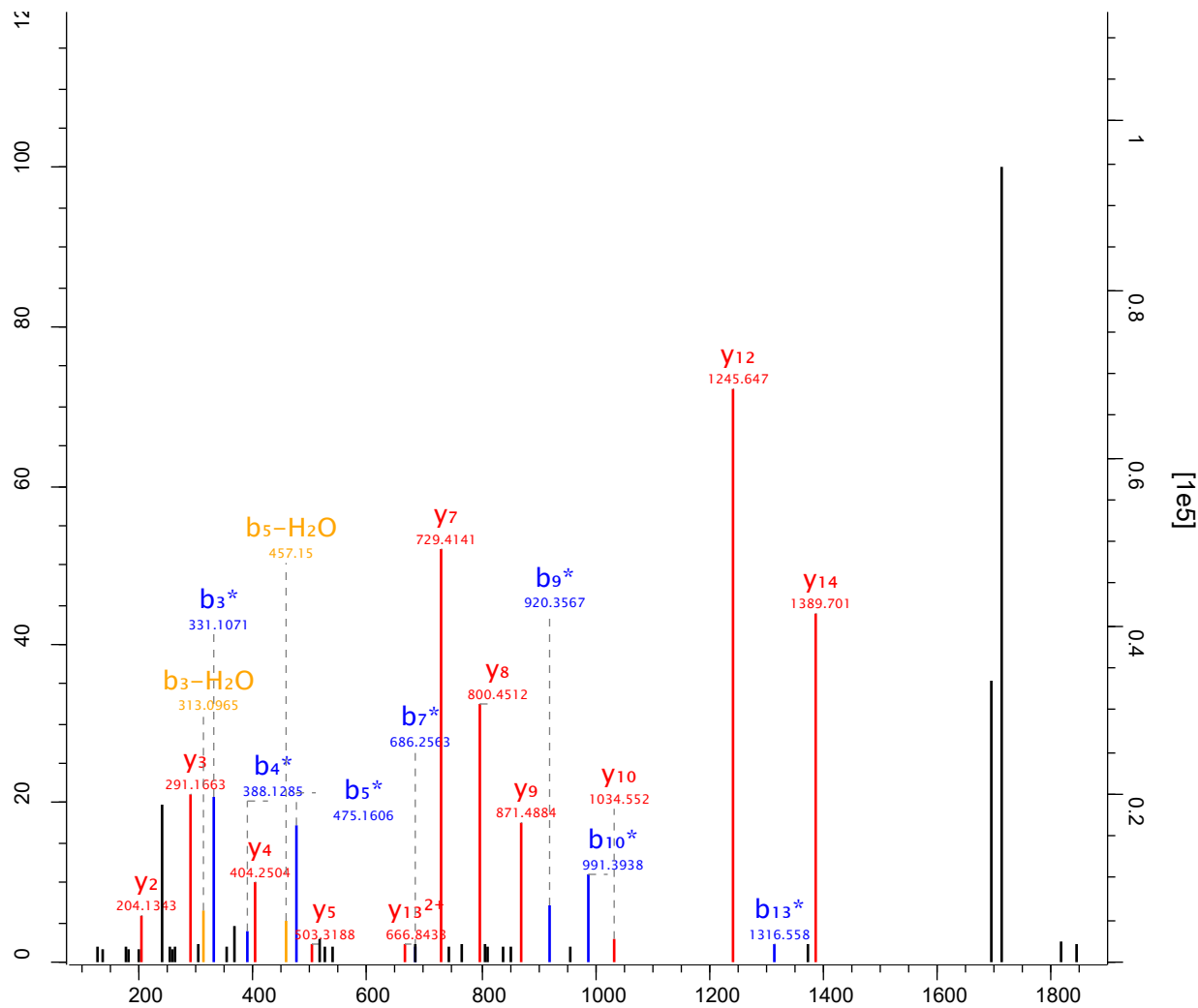


Raw file Scan Method Score m/z  
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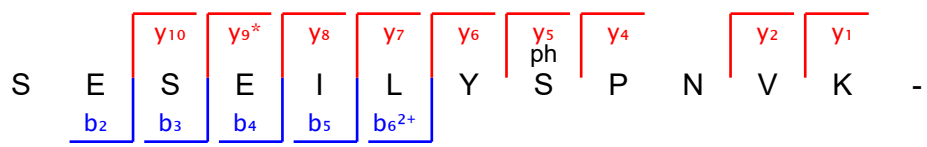
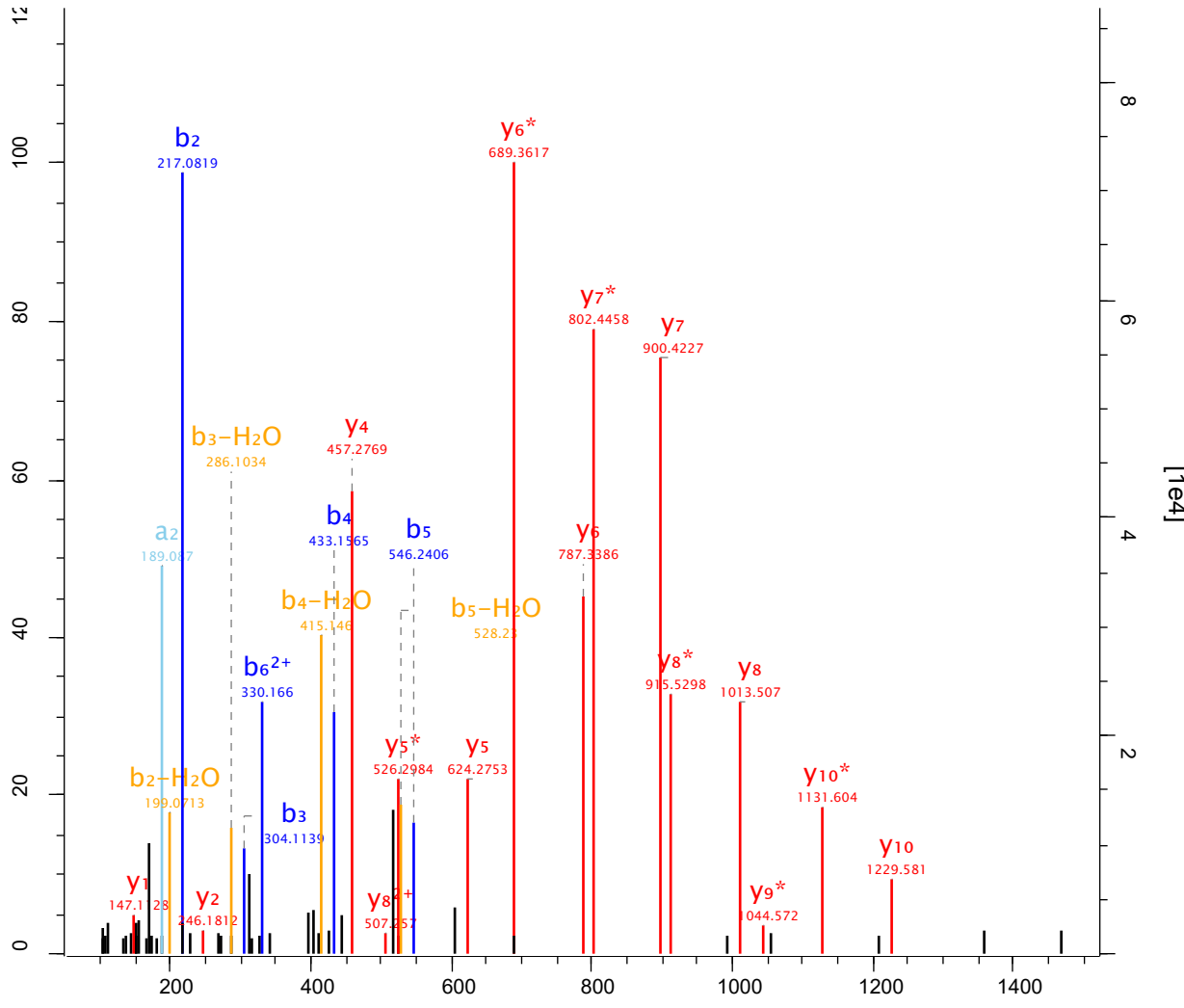




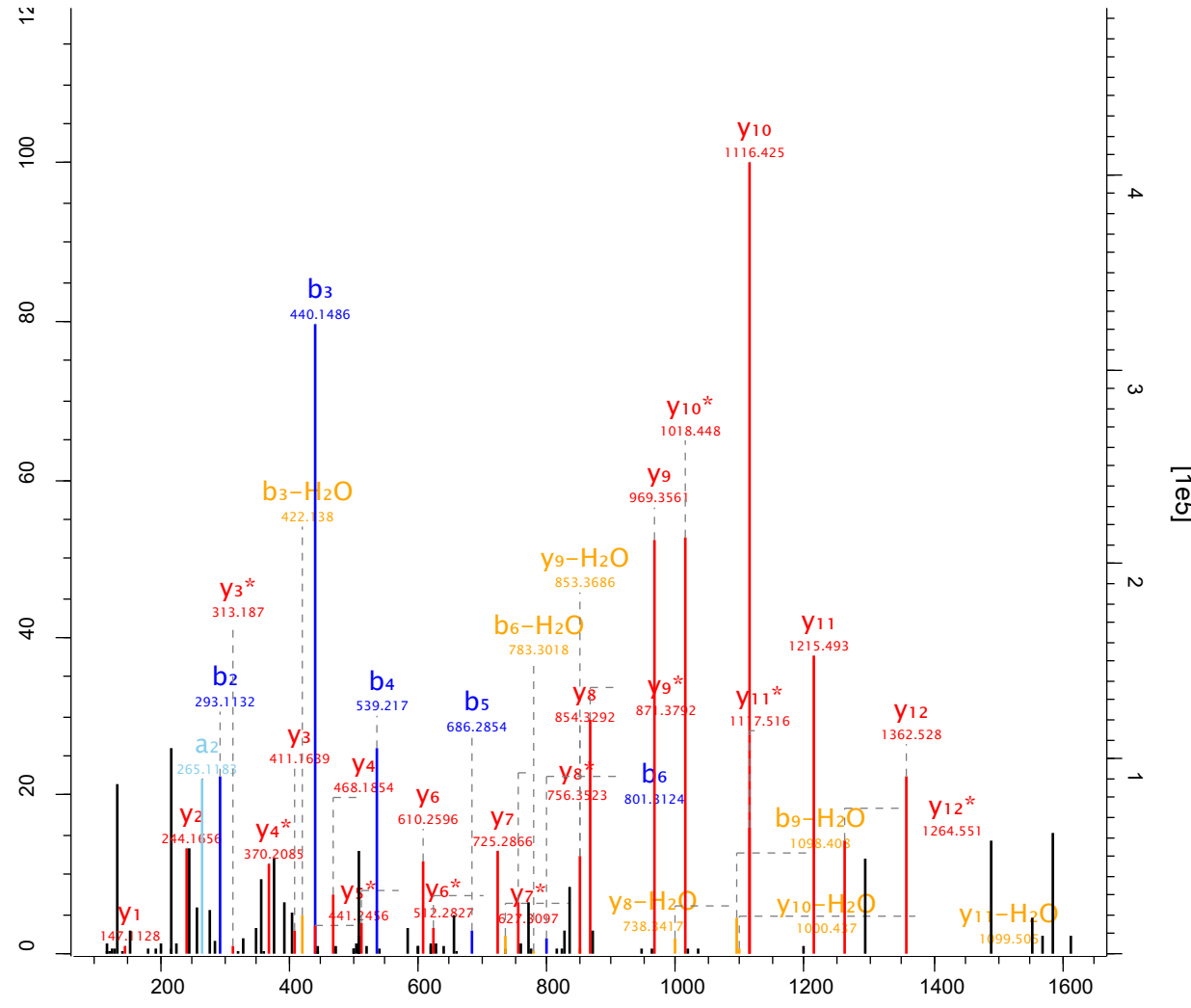
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
 sys\_15\_1 22245 FTMS; HCD 150.34 723.33



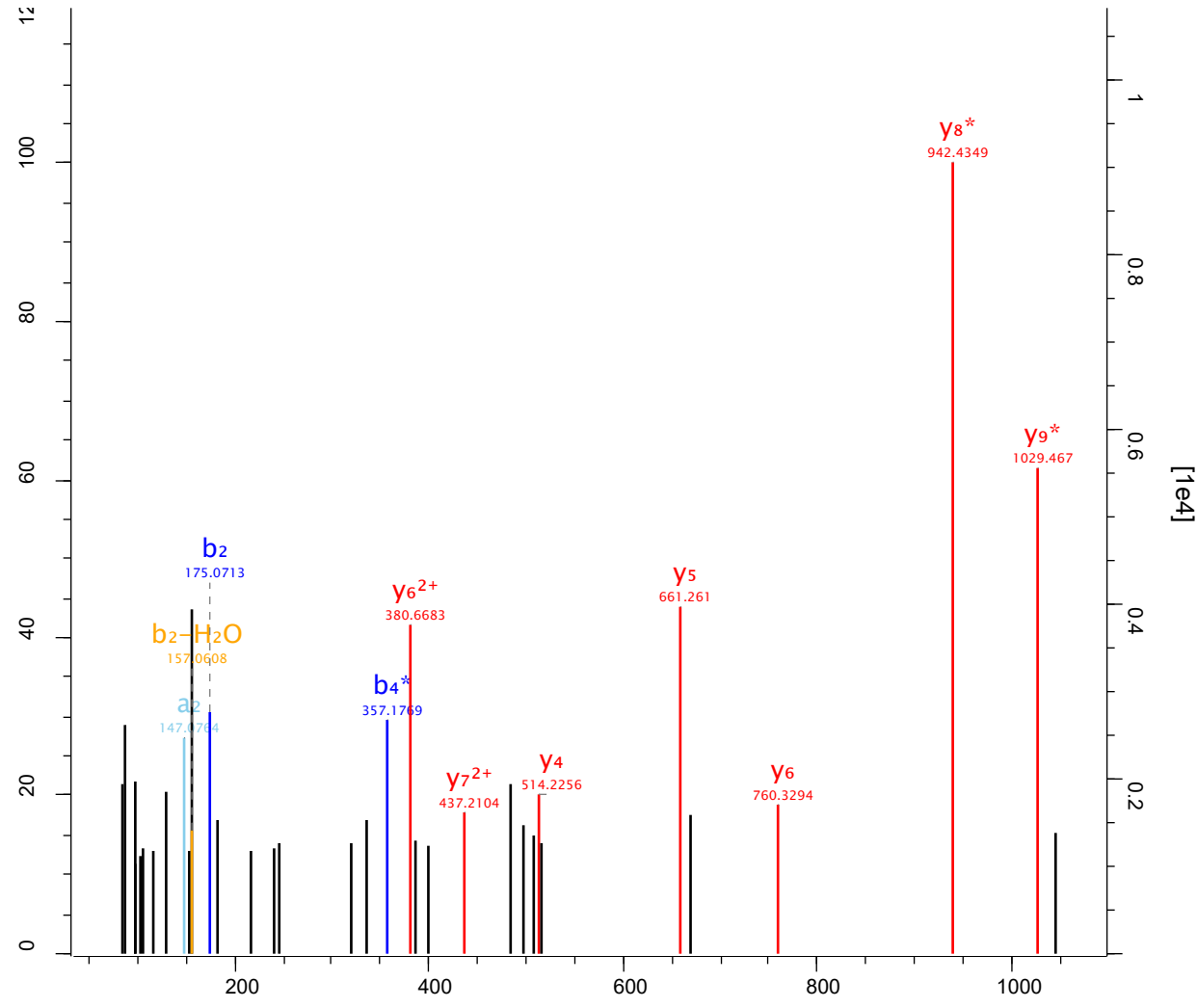
Raw file Scan Method Score m/z  
 sys\_15\_1 22365 FTMS; HCD 134.52 827.82



- Y E M V F D E D A A G S P K -

b<sub>2</sub>
b<sub>3</sub>
b<sub>4</sub>
b<sub>5</sub>
b<sub>6</sub>
y<sub>12</sub>
OX
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>
y<sub>3</sub>
ph
y<sub>2</sub>
y<sub>1</sub>

Raw file	Scan	Method	Score	m/z
sys_15_1	2250	FTMS; HCD	48.57	405.5

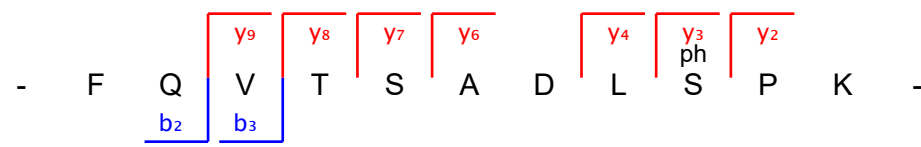
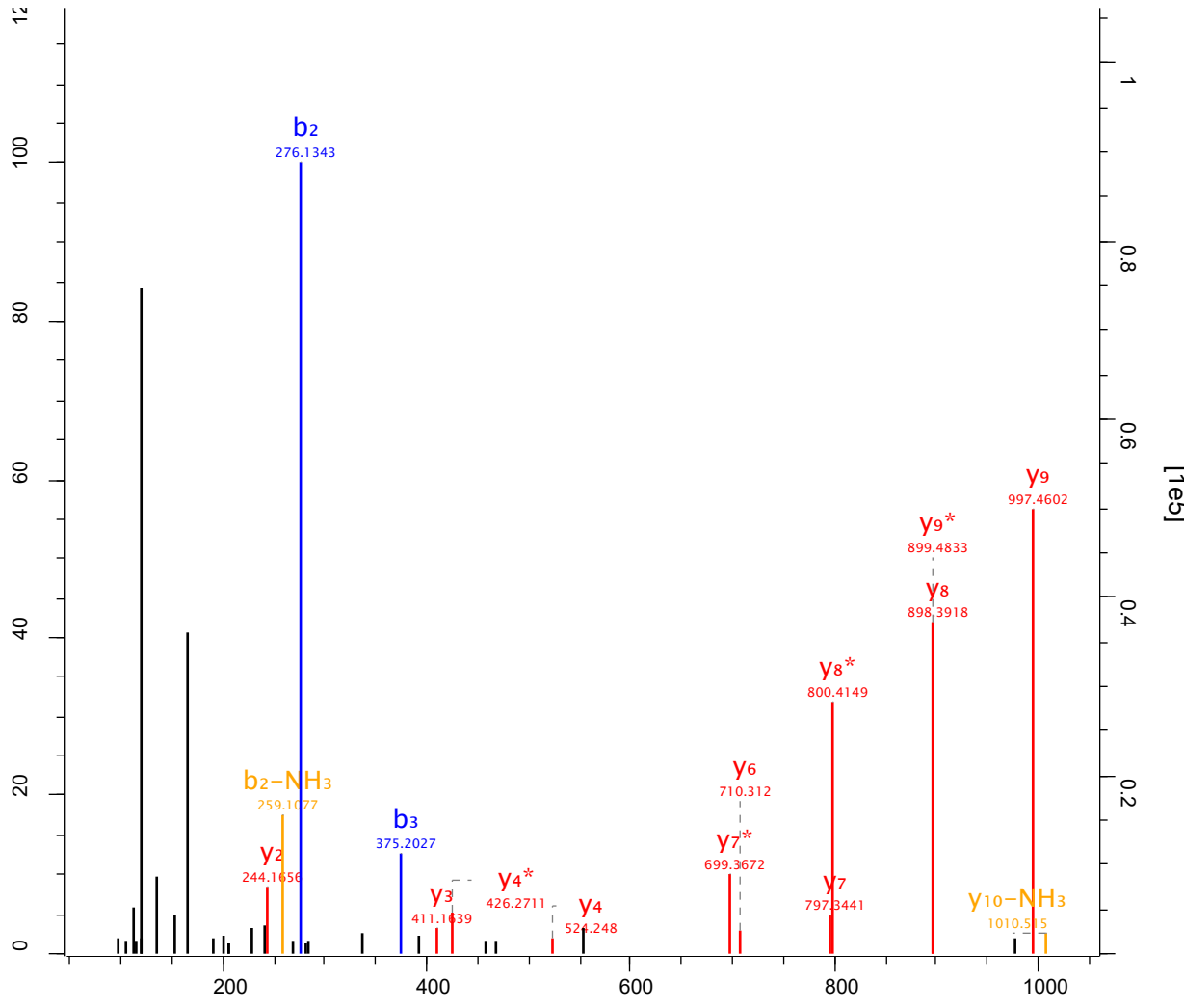


- S S S I V M D D H K -

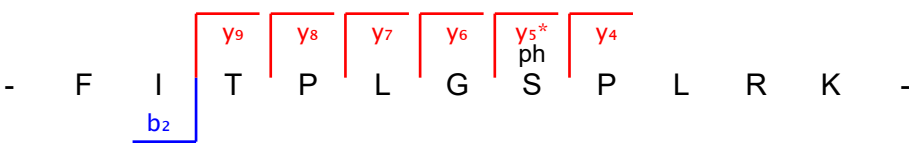
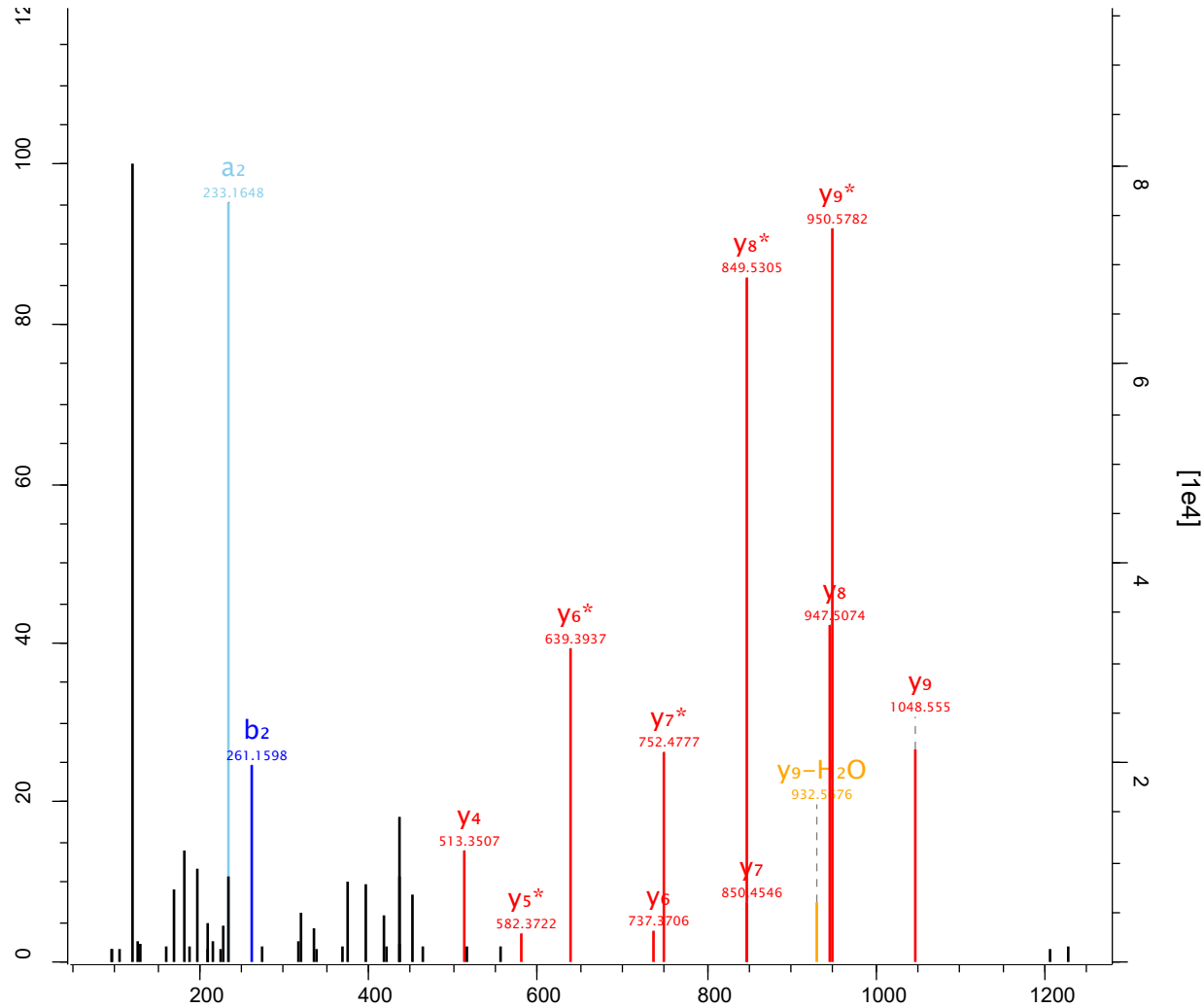
y9\*
y8\*  
ph
y7-2+
y6
y5  
ox
y4

b2
b4\*

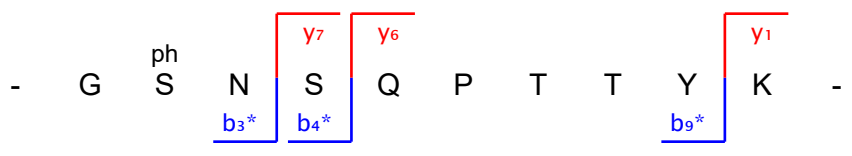
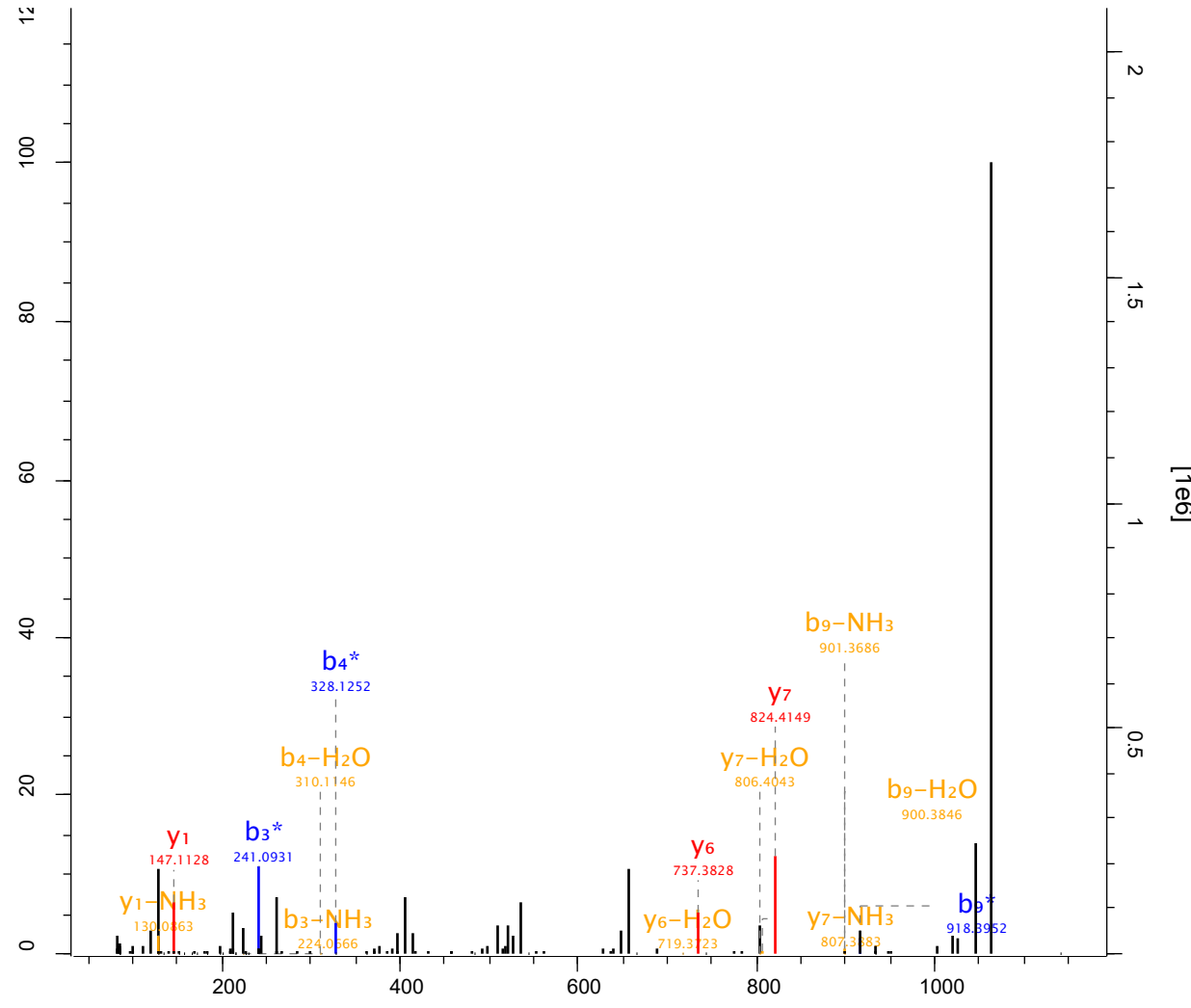
Raw file Scan Method Score m/z  
 sys\_15\_1 22527 FTMS; HCD 59.71 636.8



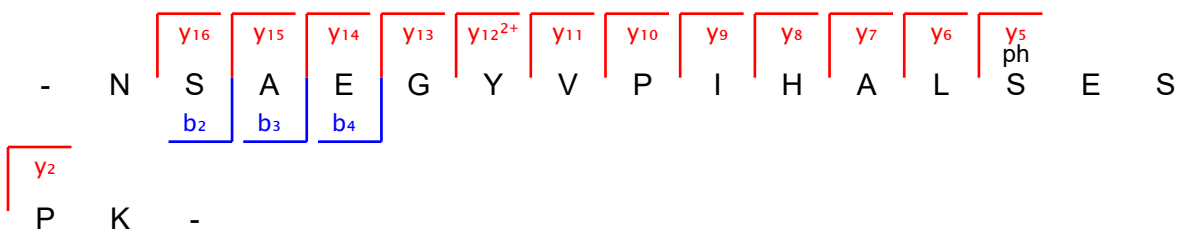
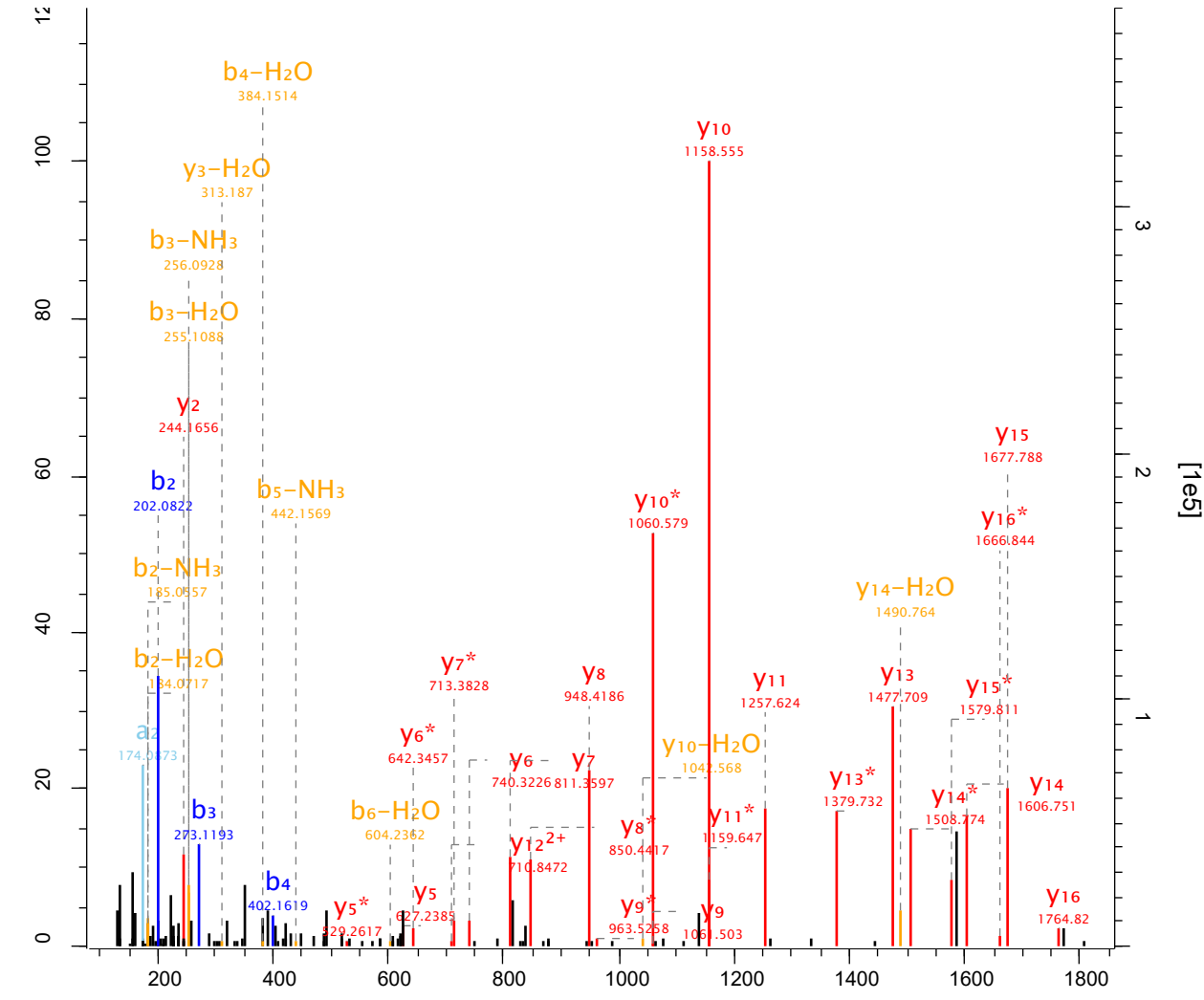
Raw file Scan Method Score m/z  
 sys\_15\_1 22543 FTMS; HCD 63.19 436.91



Raw file	Scan	Method	Score	m/z
sys_15_1	22596	FTMS; HCD	42.47	581.74

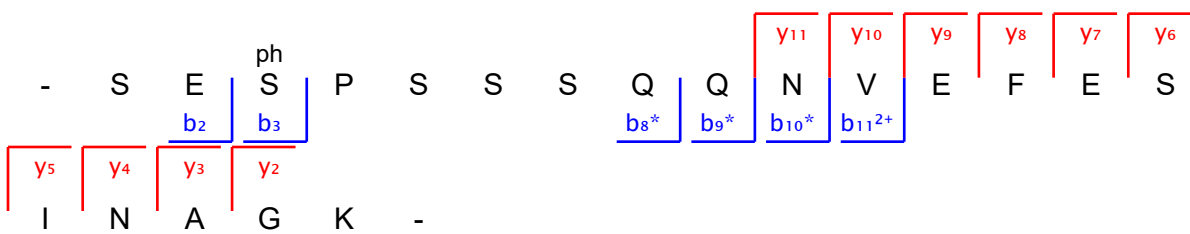
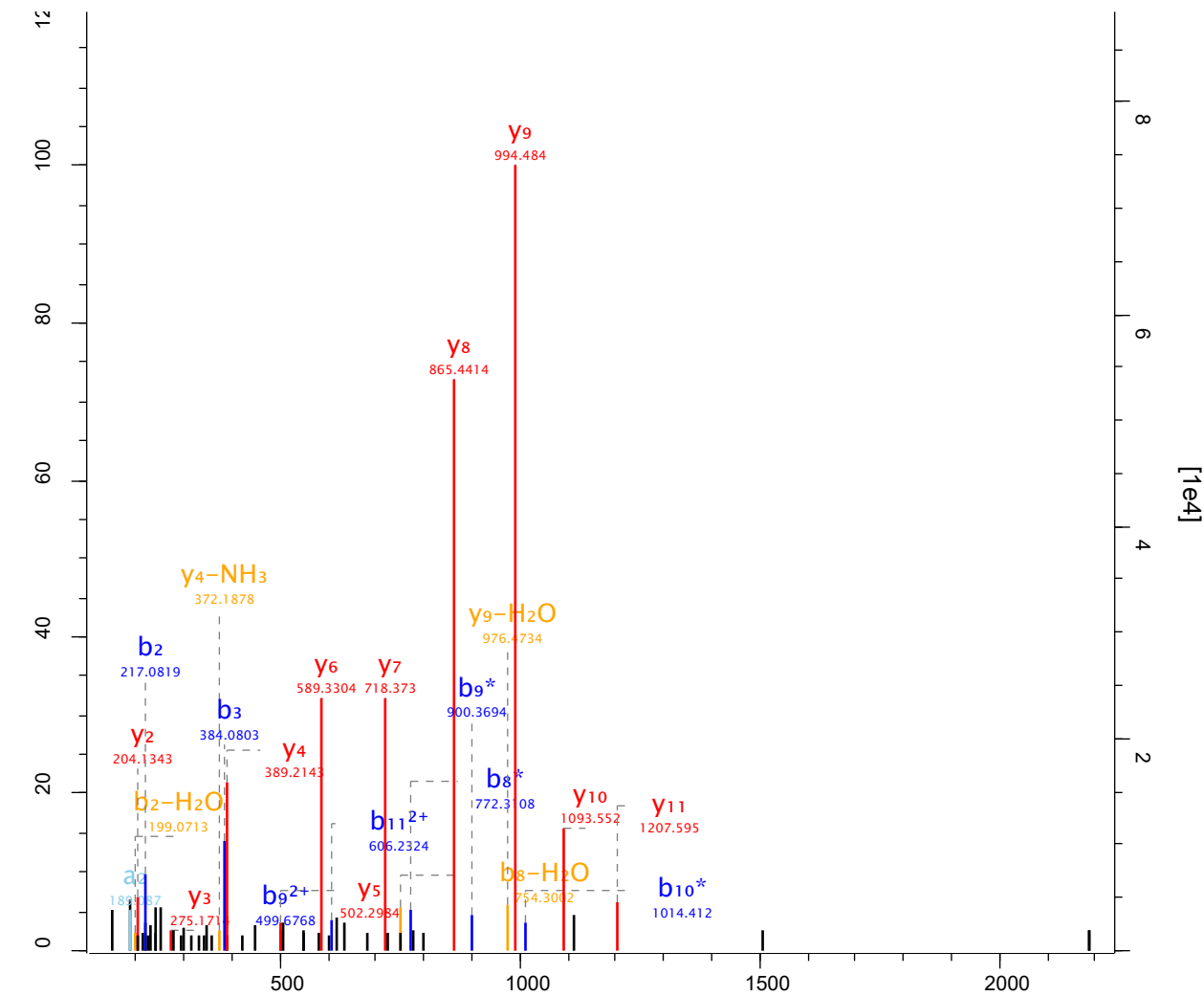


Raw file Scan Method Score m/z  
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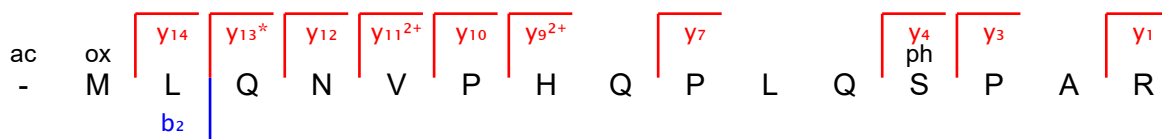
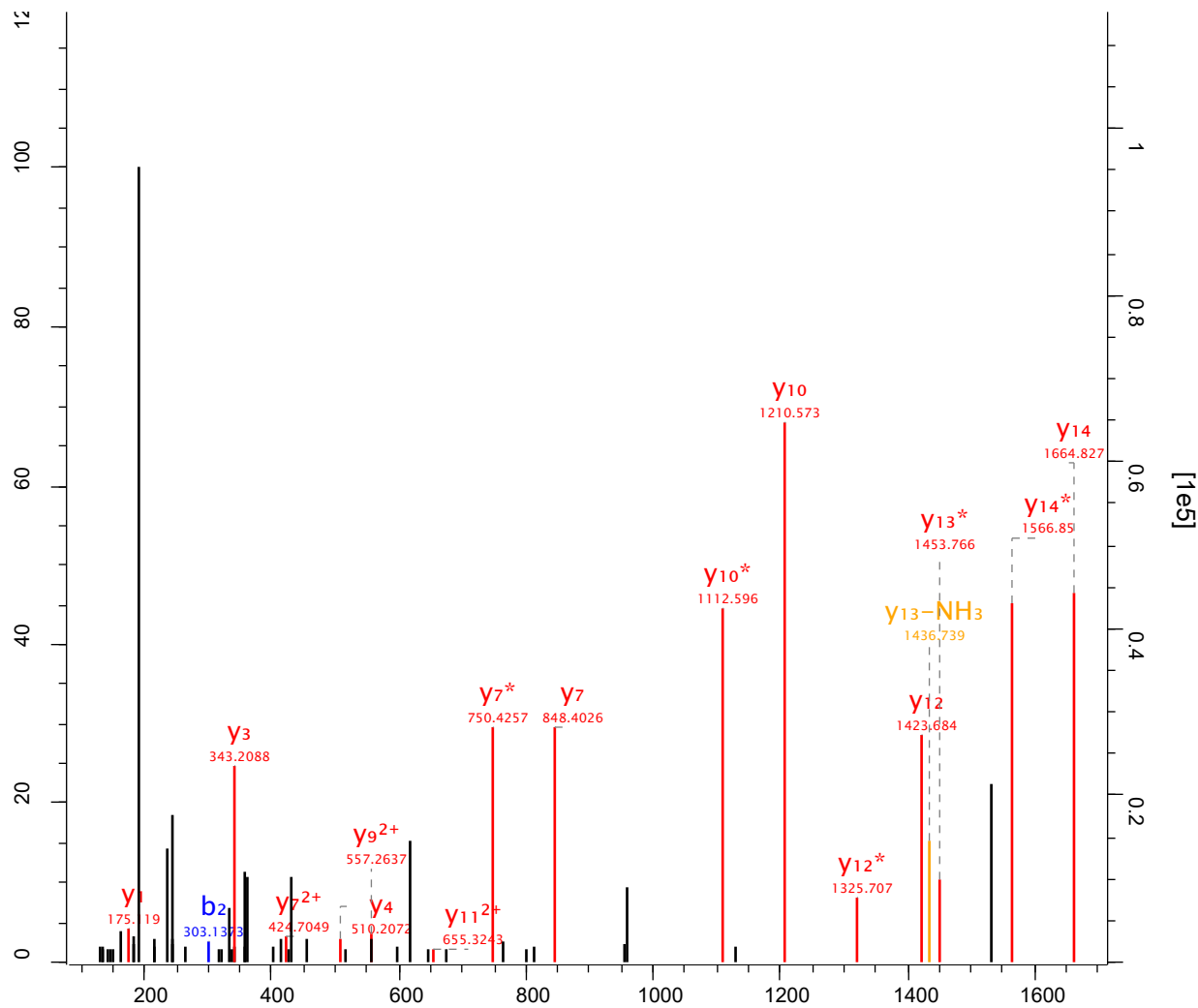




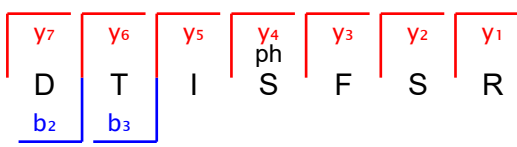
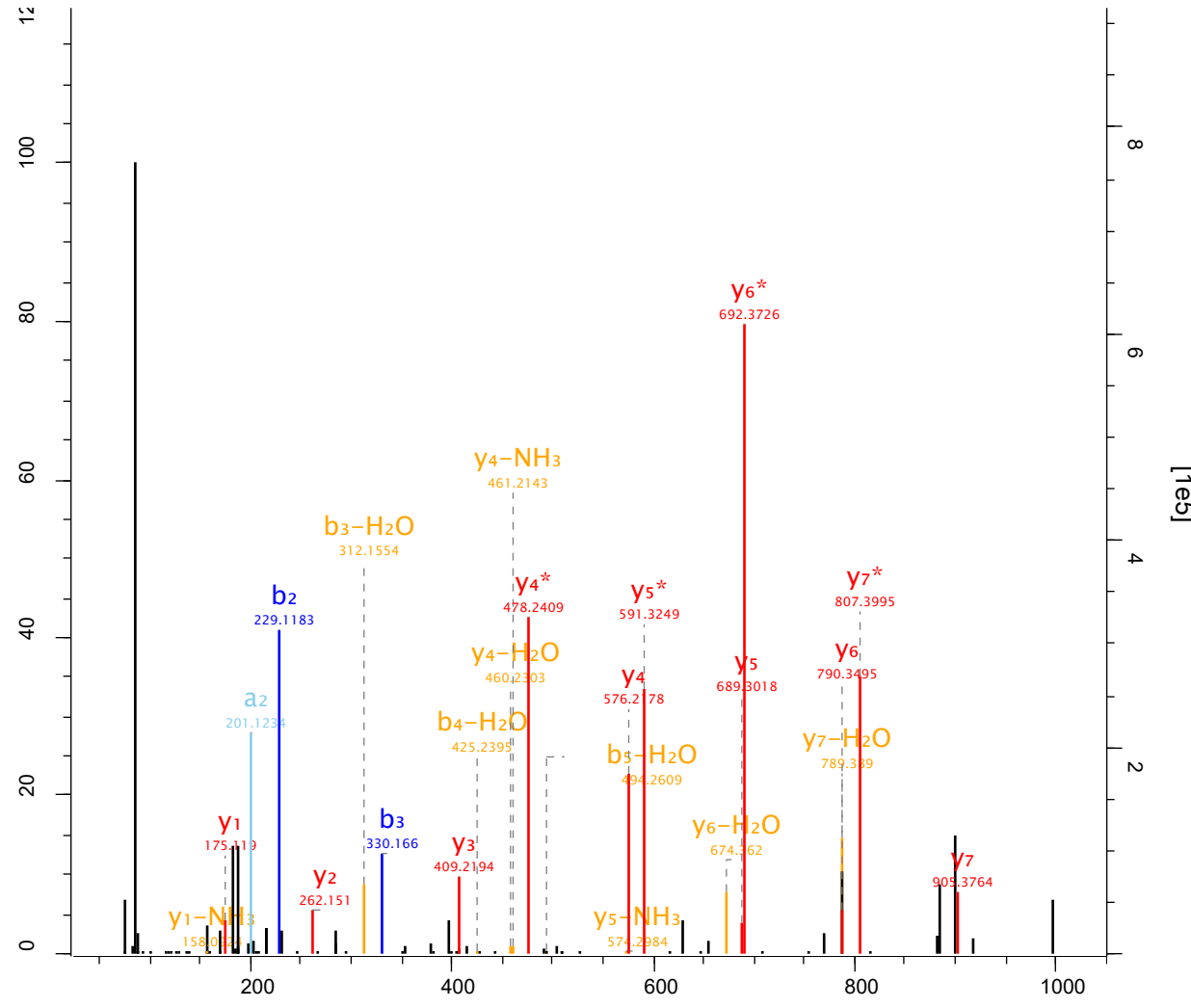
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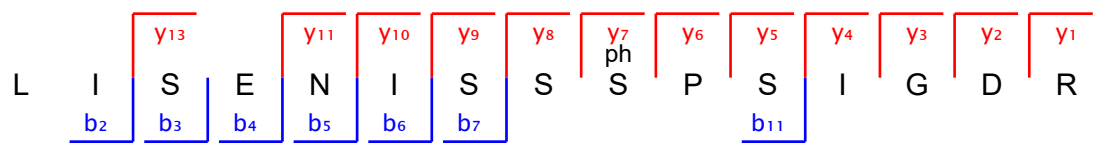
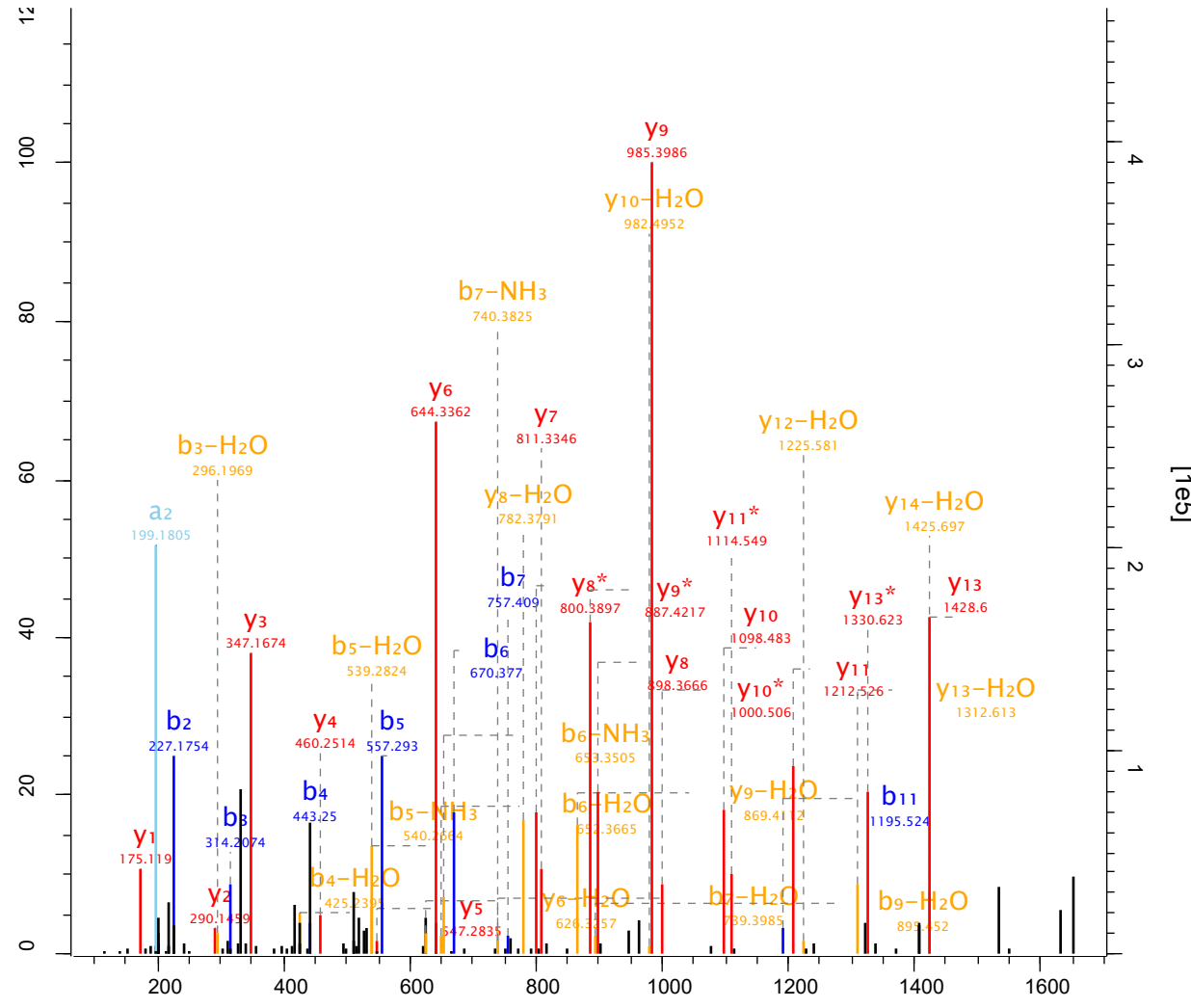
Raw file Scan Method Score m/z  
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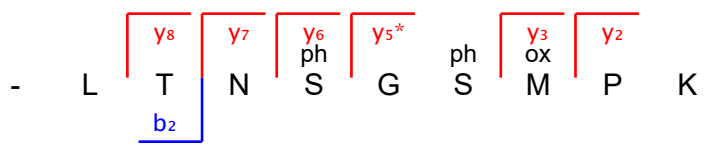
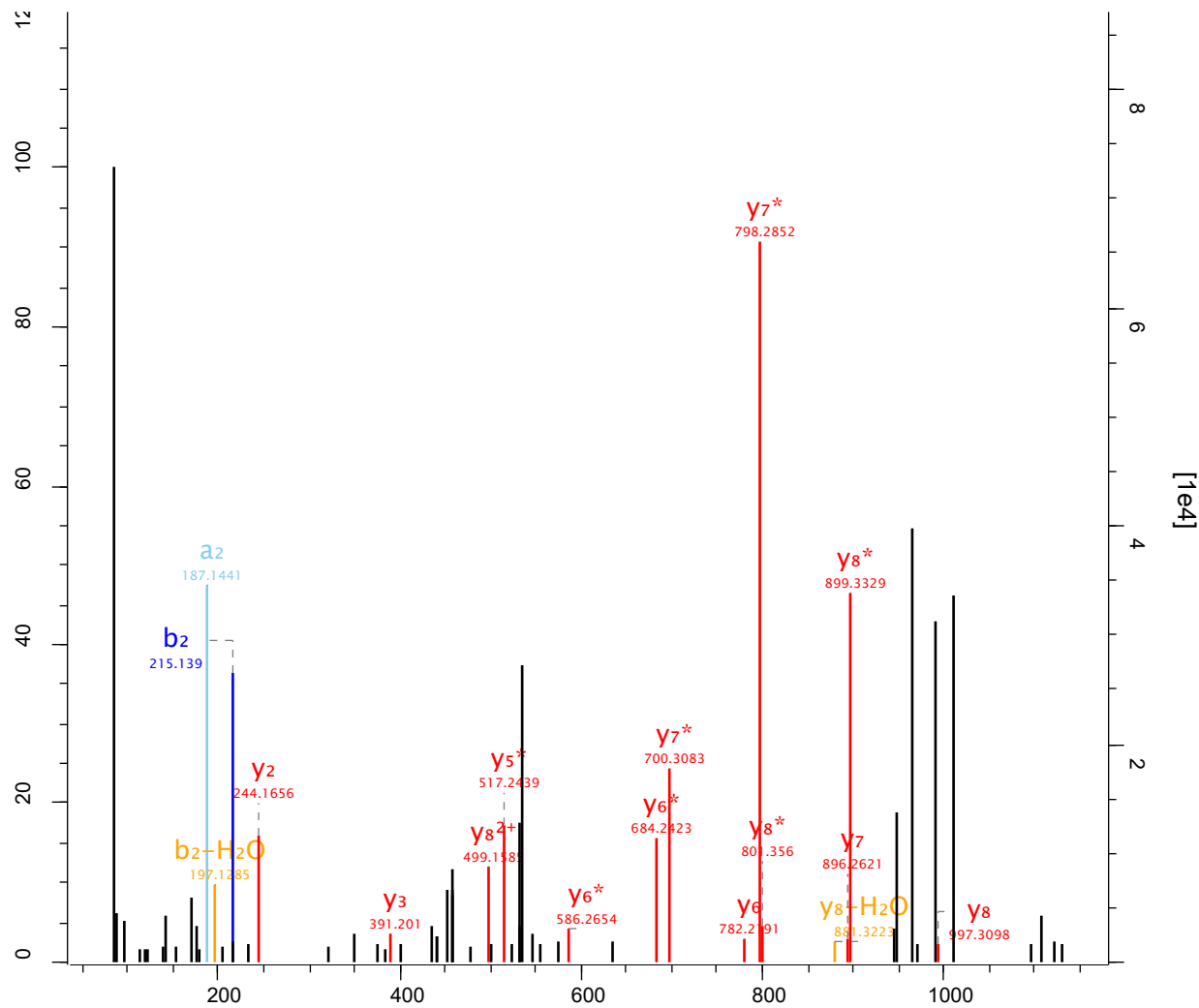
Raw file Scan Method Score m/z  
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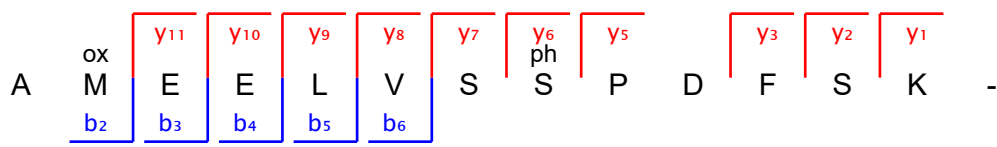
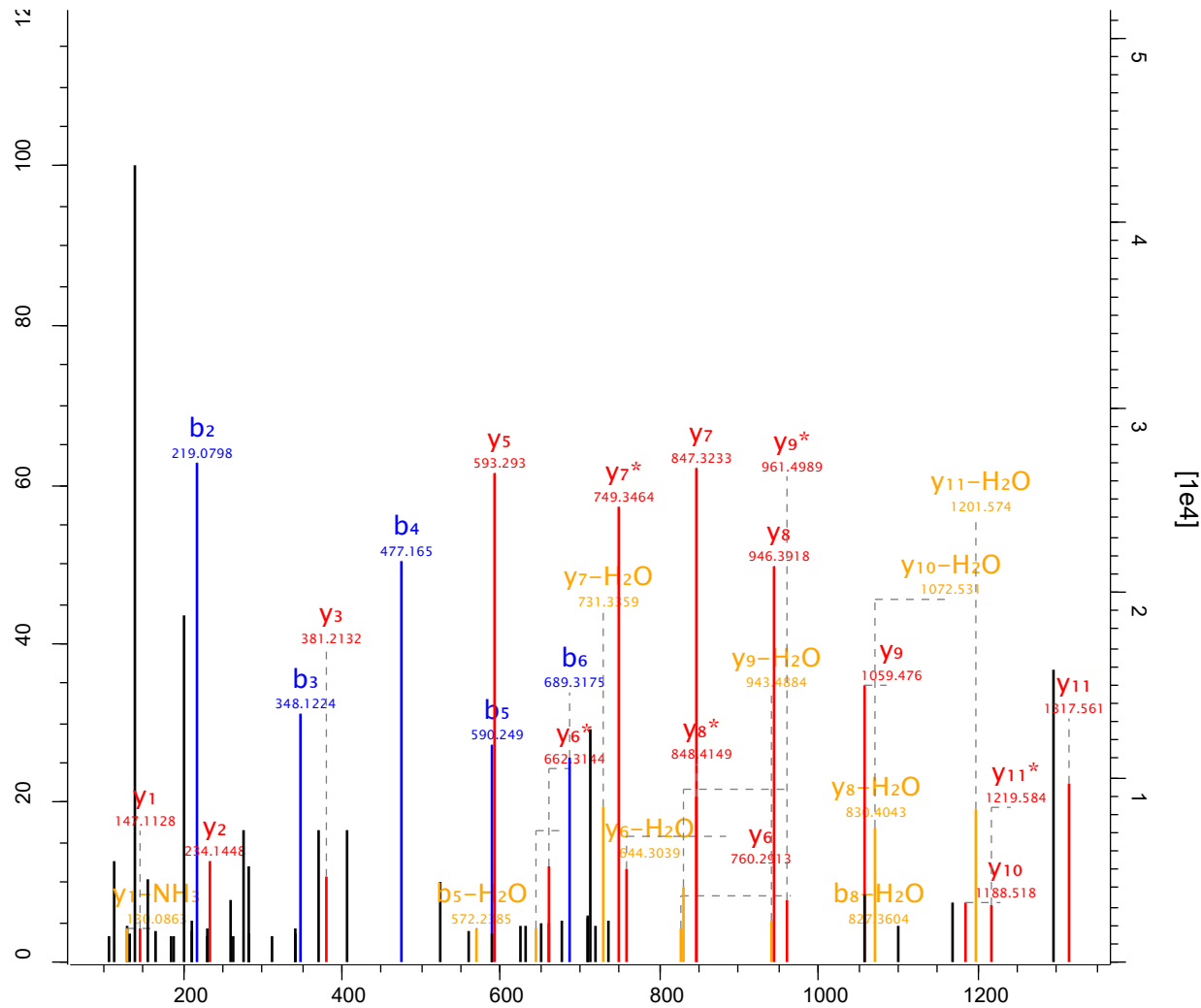
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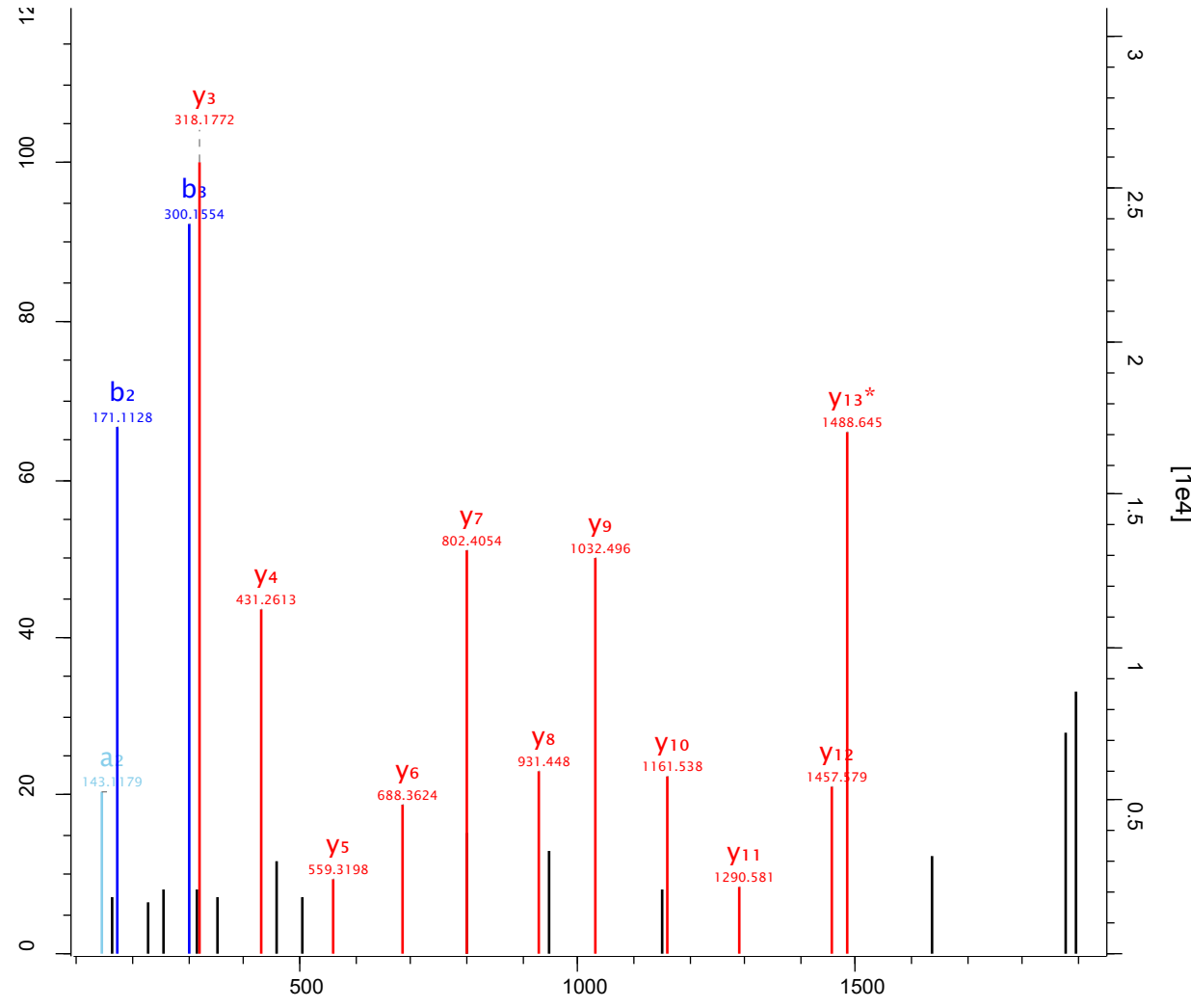
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
 sys\_15\_1 23221 FTMS; HCD 127.3 768.32



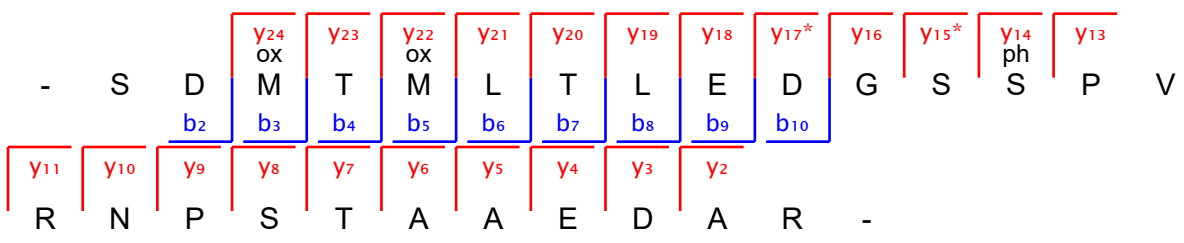
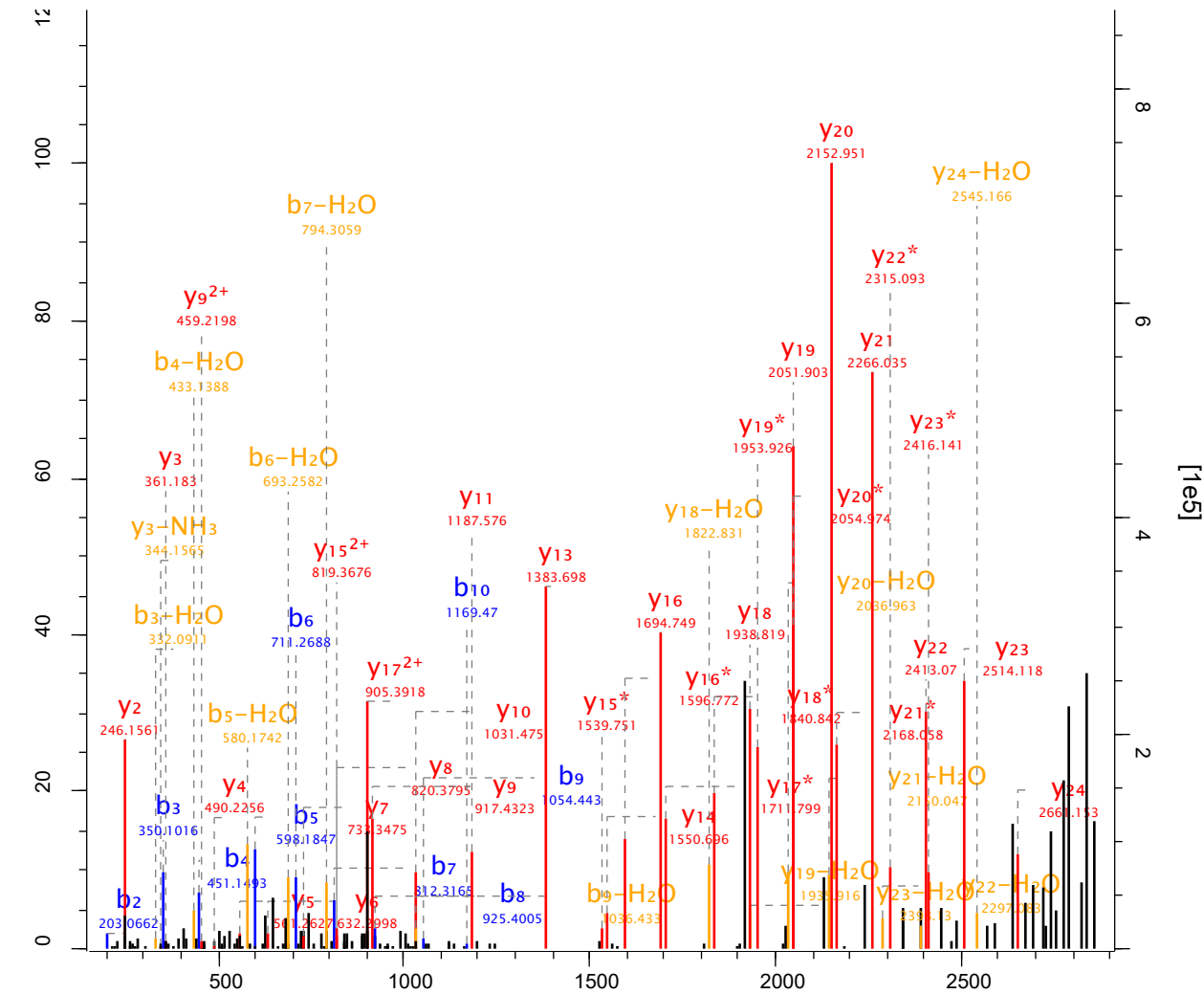
Raw file Scan Method Score m/z  
 sys\_15\_1 23270 FTMS; HCD 52.86 999.93



- G L E I E S E E T E N E Q I G  
 N K -

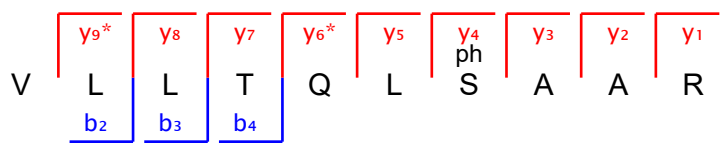
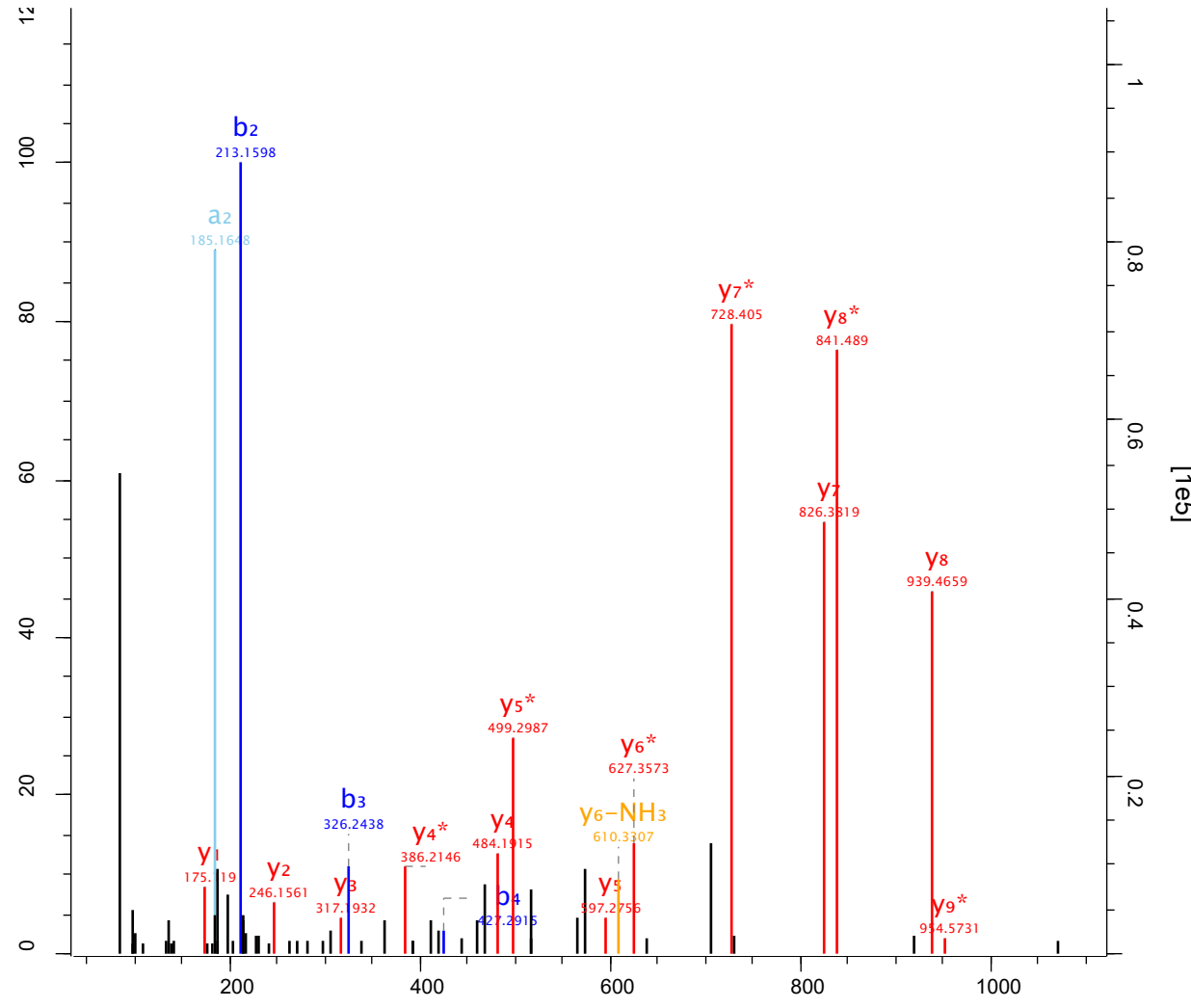
Fragmentation mapping:  
 - b<sub>2</sub> (L) and b<sub>3</sub> (LE) are indicated by blue brackets.  
 - y<sub>13</sub>\* (E), y<sub>12</sub>ph (S), y<sub>11</sub> (E), y<sub>10</sub> (E), y<sub>9</sub> (T), y<sub>8</sub> (E), y<sub>7</sub> (N), y<sub>6</sub> (E), y<sub>5</sub> (Q), y<sub>4</sub> (I), and y<sub>3</sub> (G) are indicated by red brackets above the sequence.

Raw file Scan Method Score m/z  
 sys\_15\_1 23342 FTMS; HCD 263.1 955.41

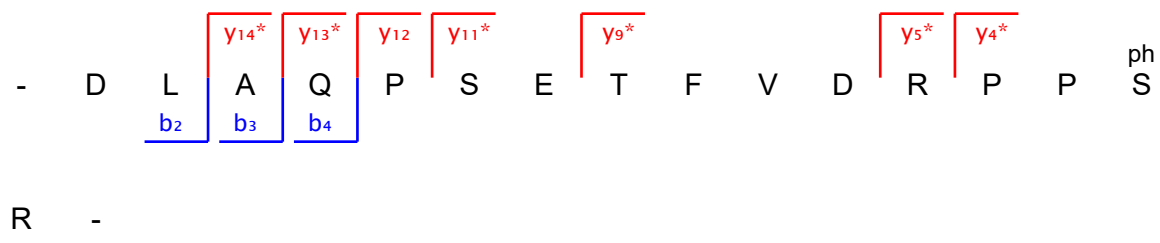
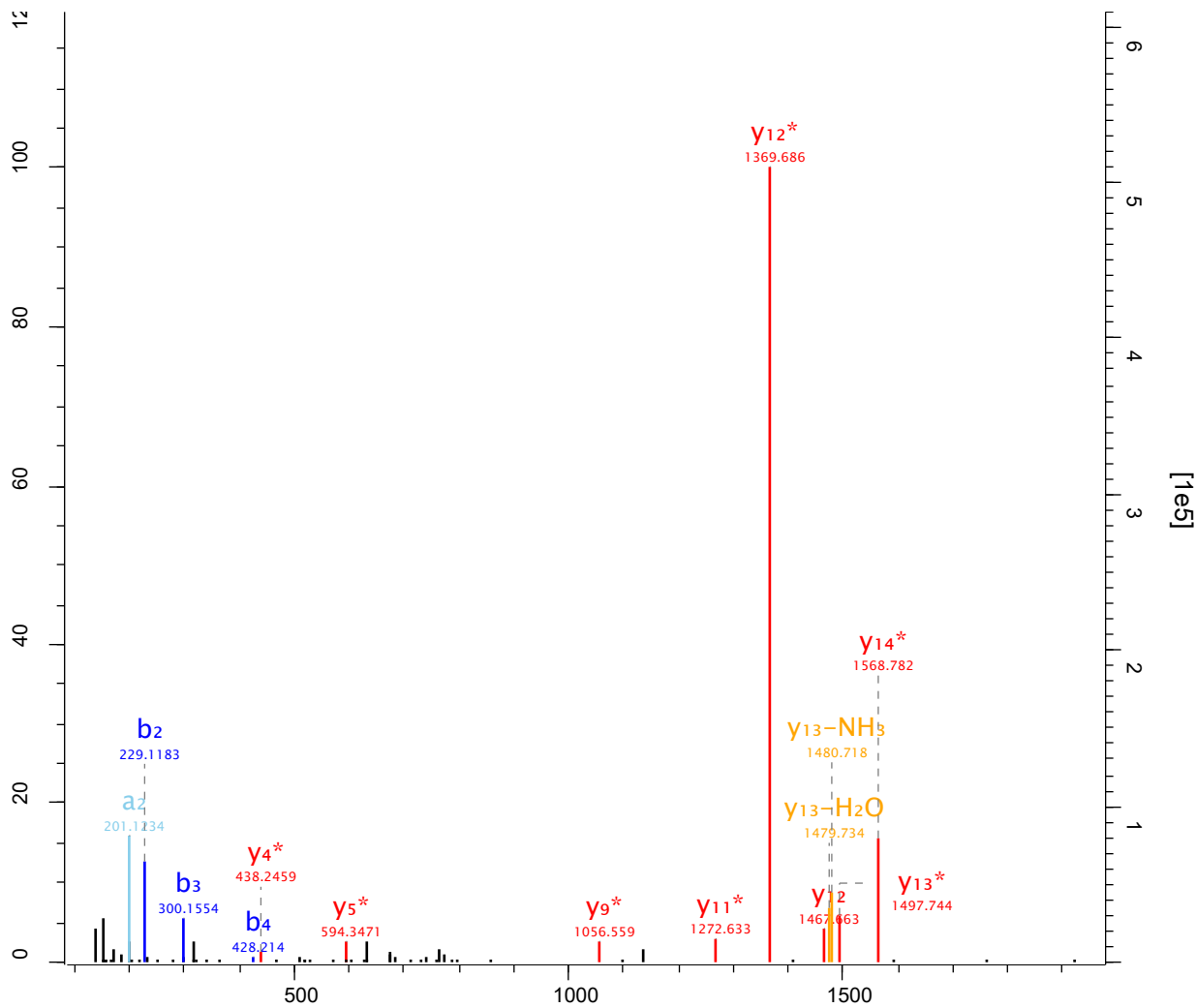




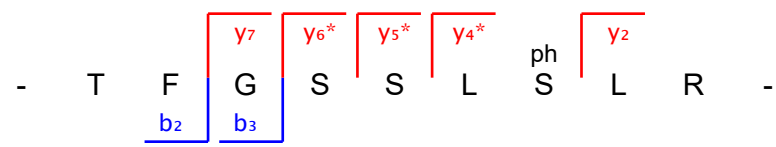
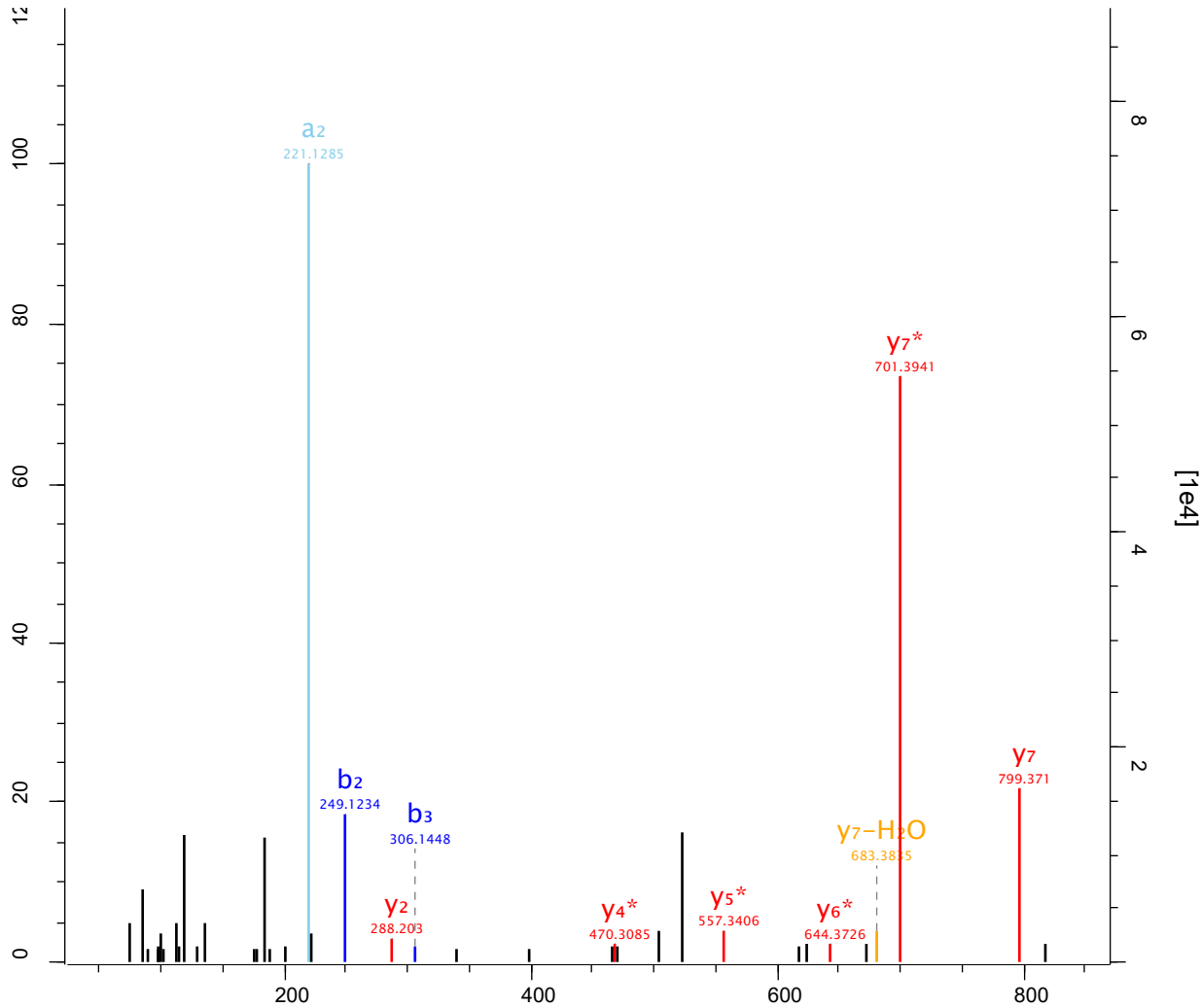
Raw file Scan Method Score m/z  
 sys\_15\_1 23369 FTMS; HCD 100.22 576.31



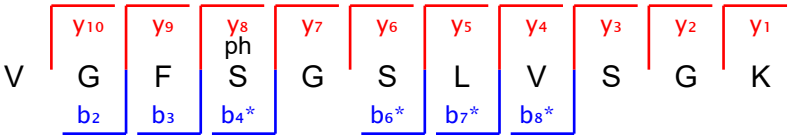
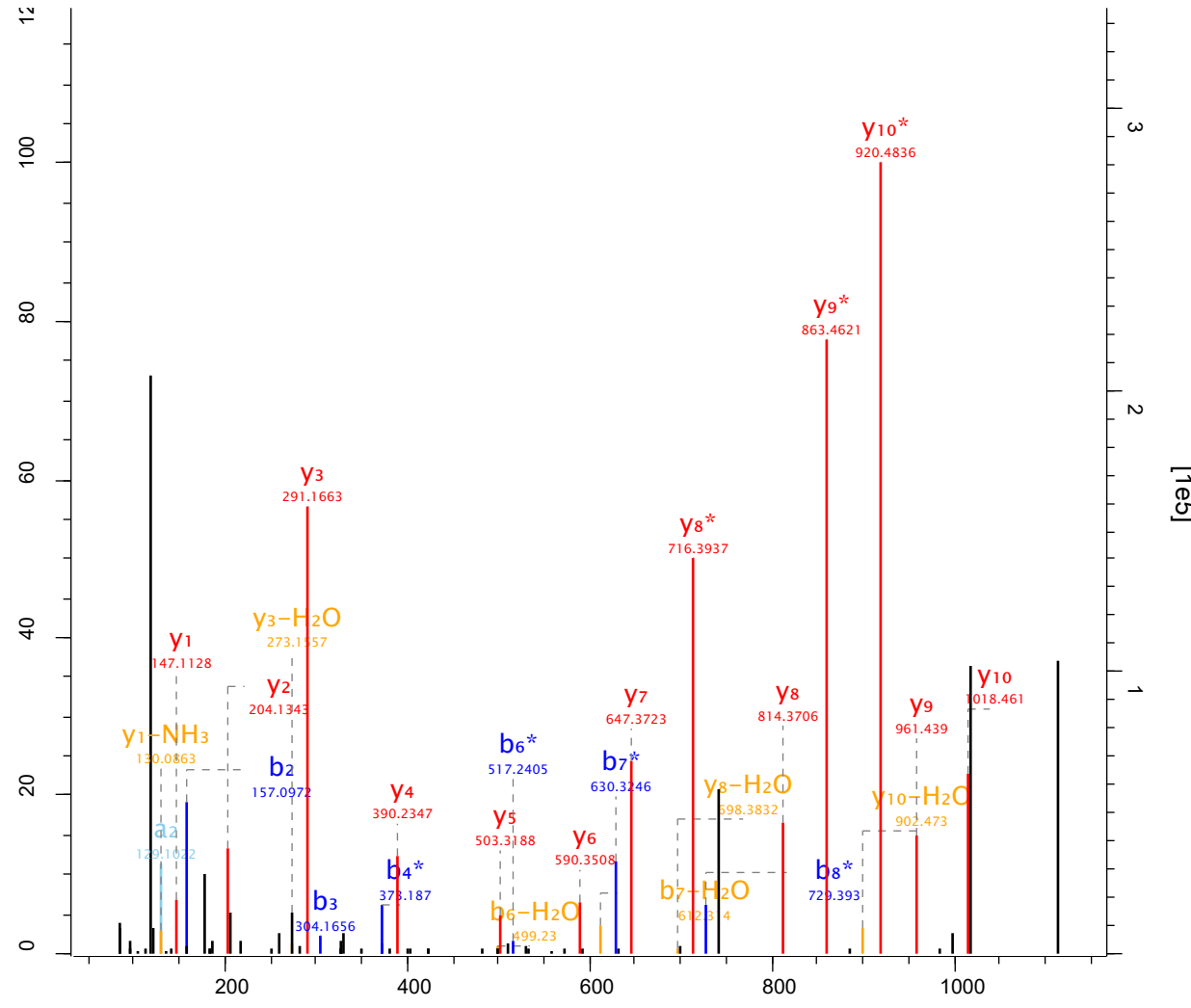
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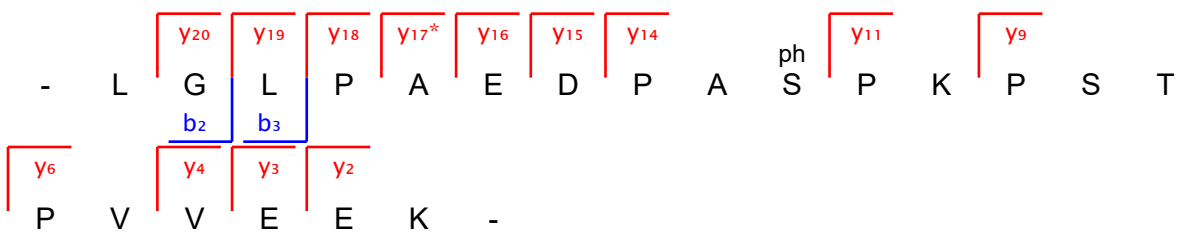
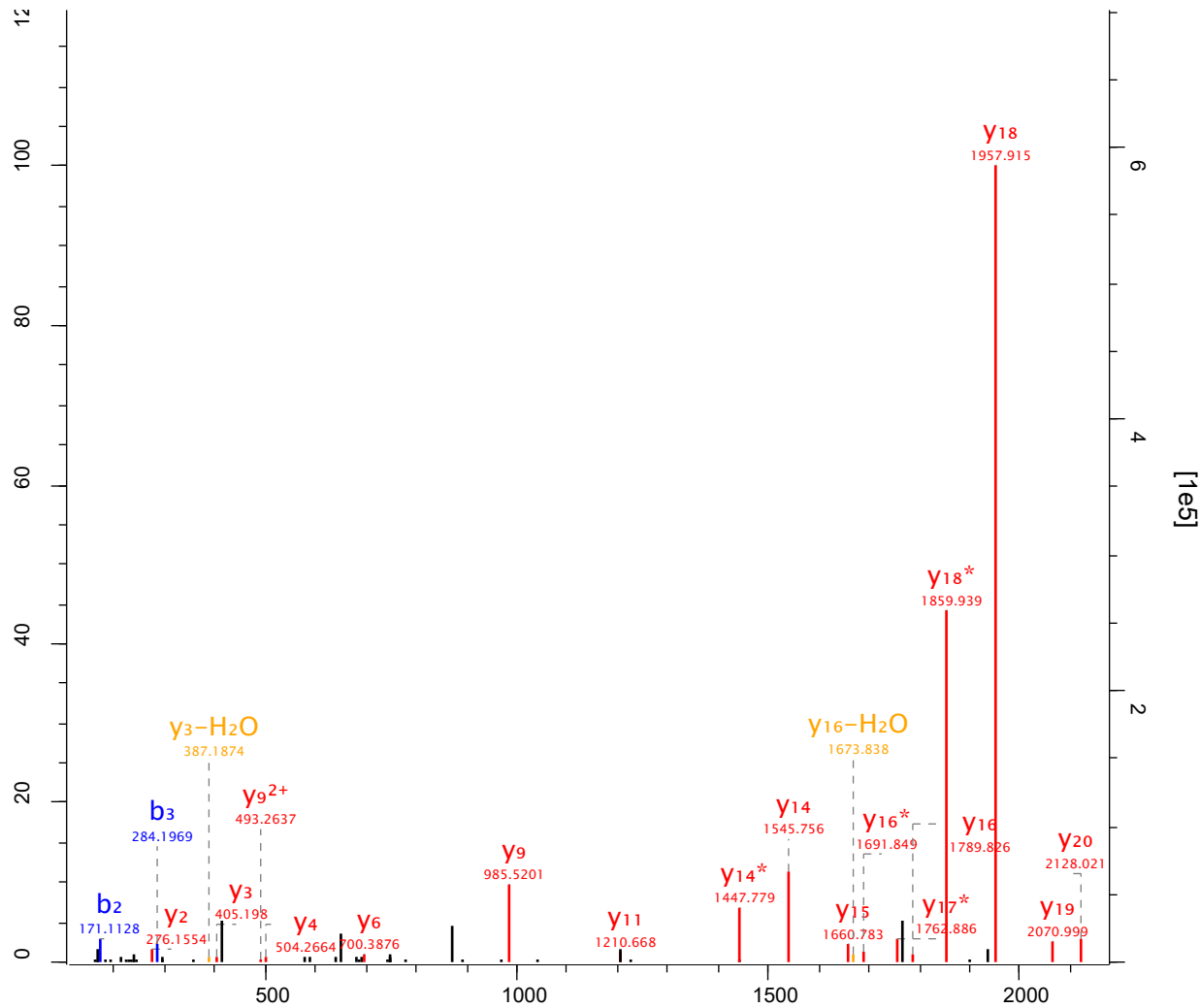
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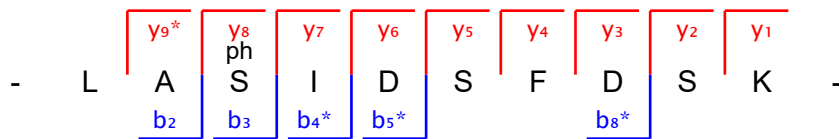
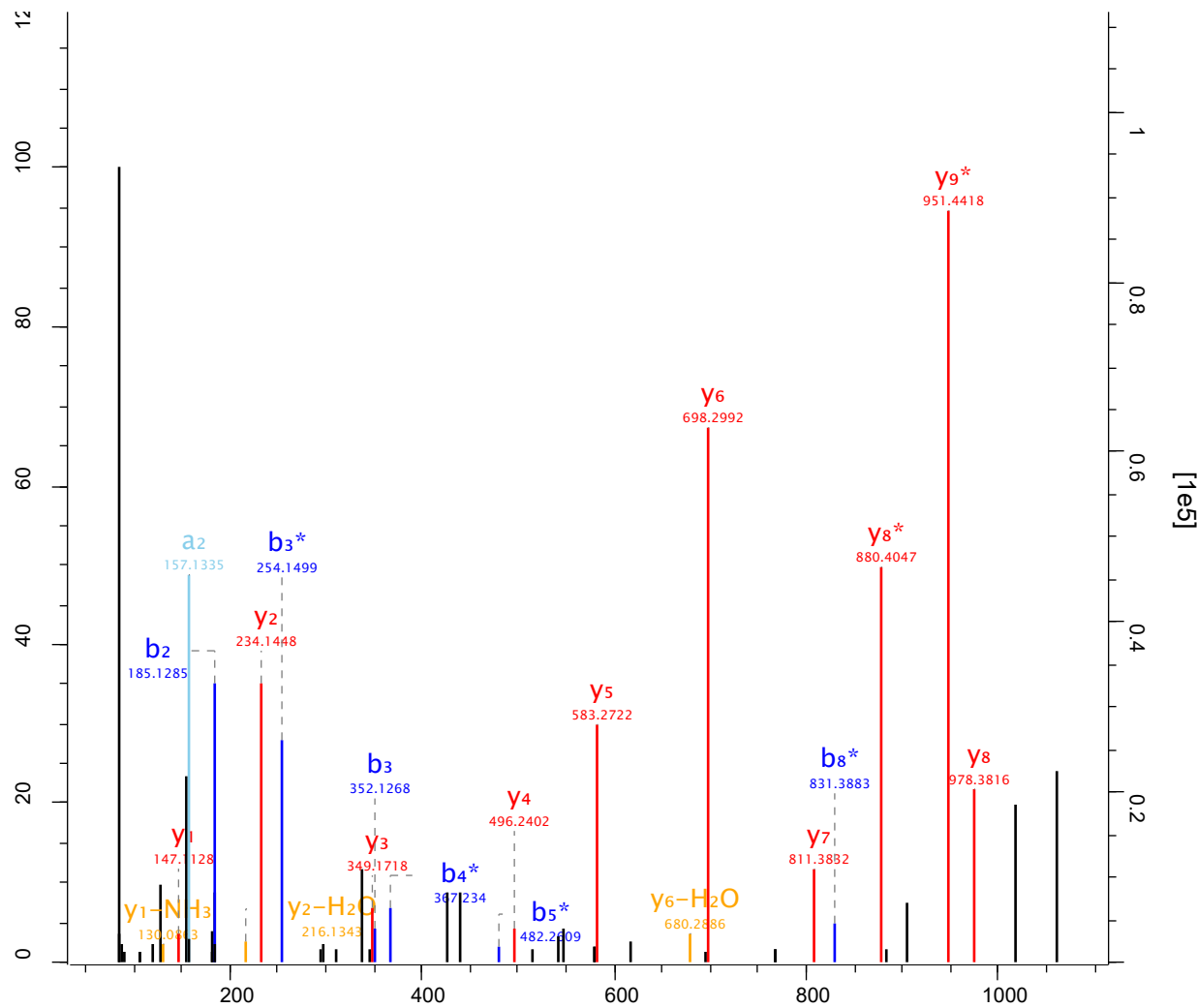
Raw file Scan Method Score m/z  
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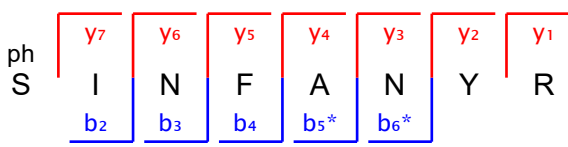
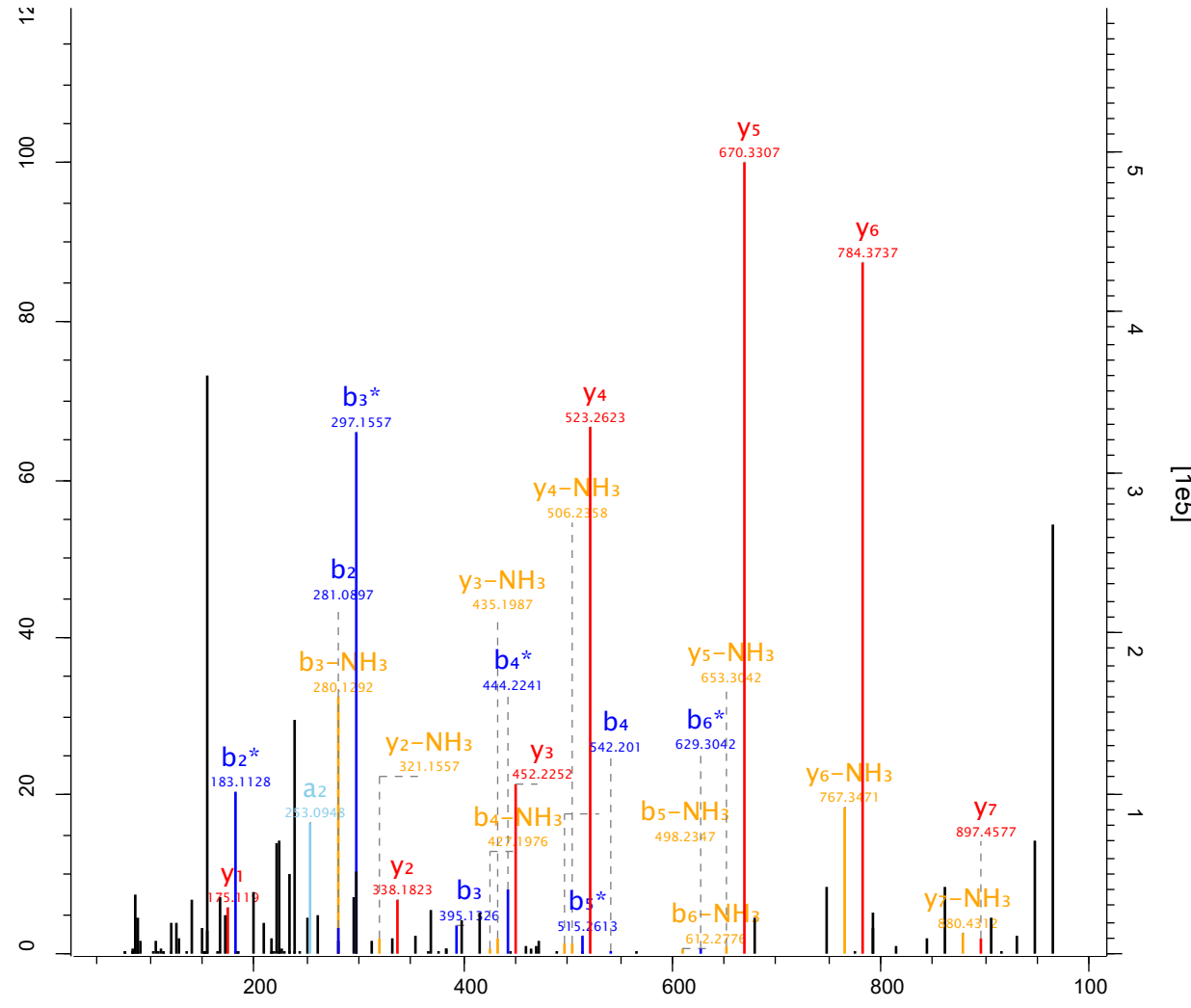
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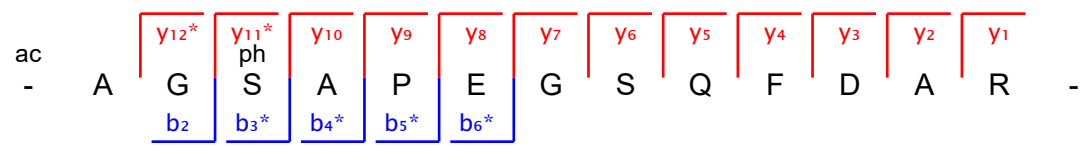
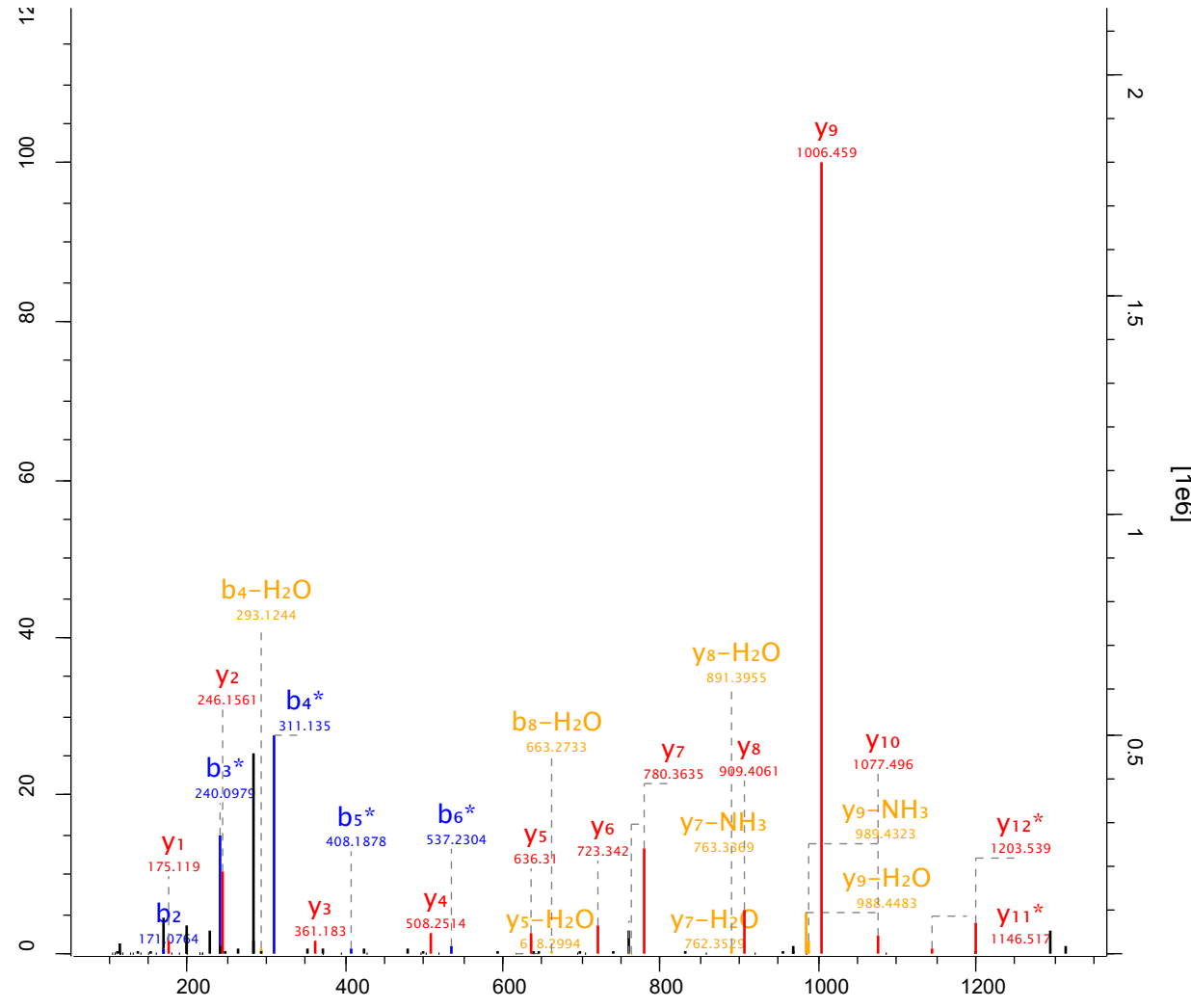
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Raw file Scan Method Score m/z  
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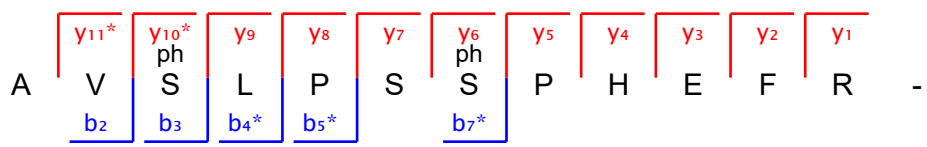
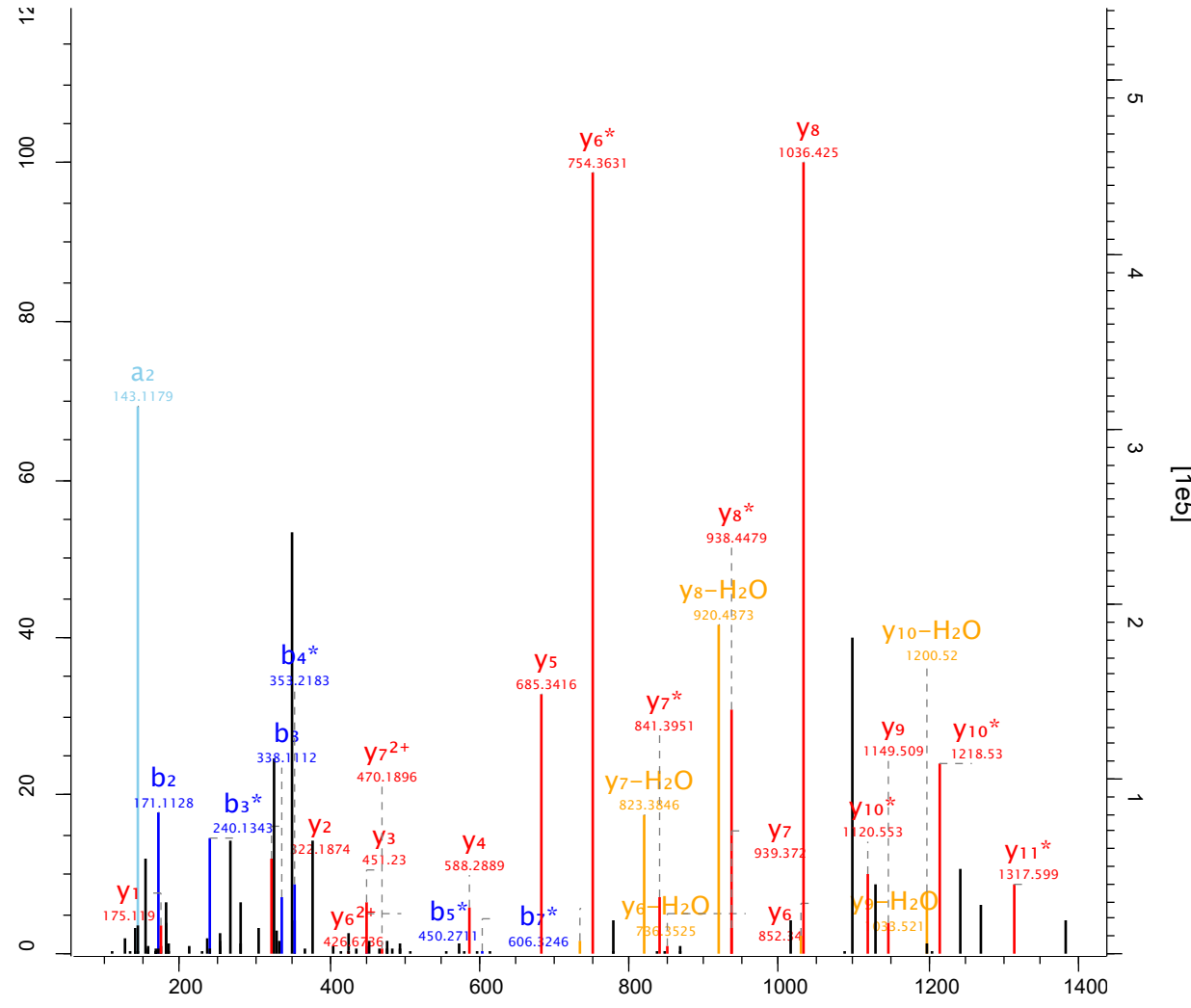


Raw file Scan Method Score m/z  
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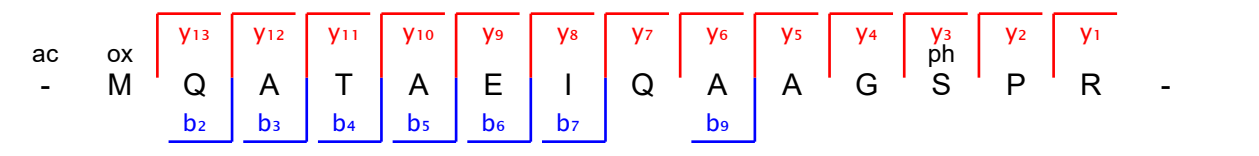
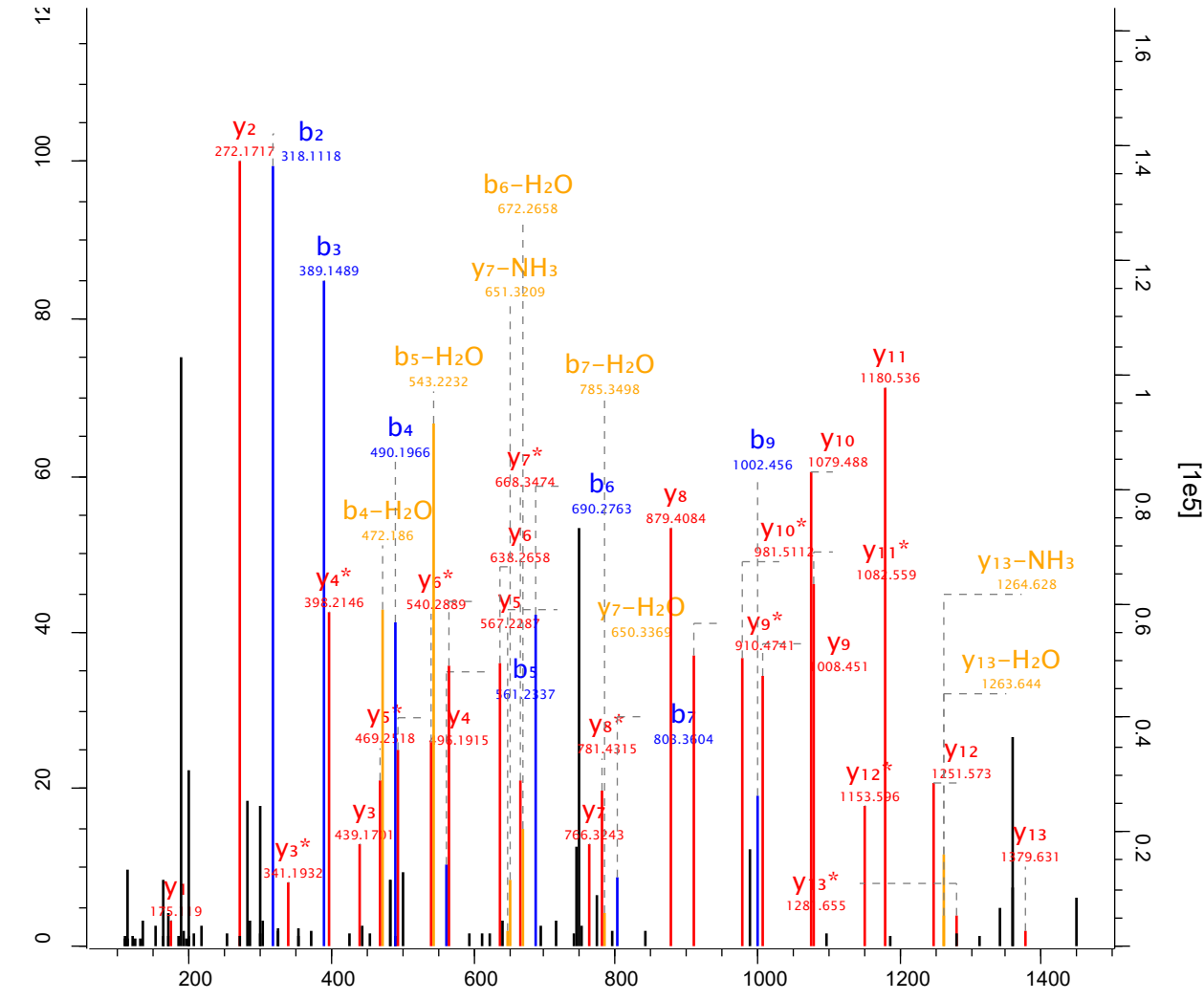




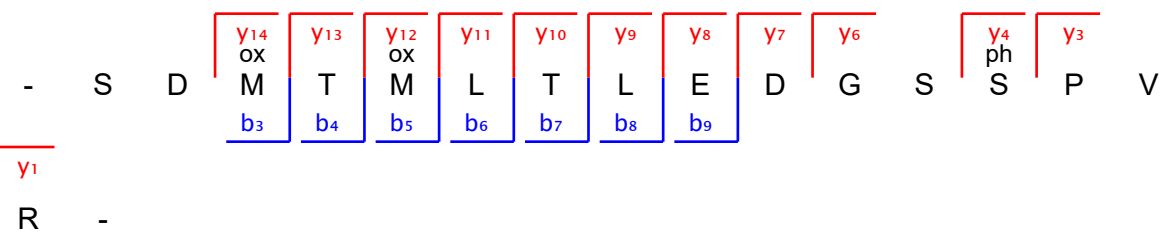
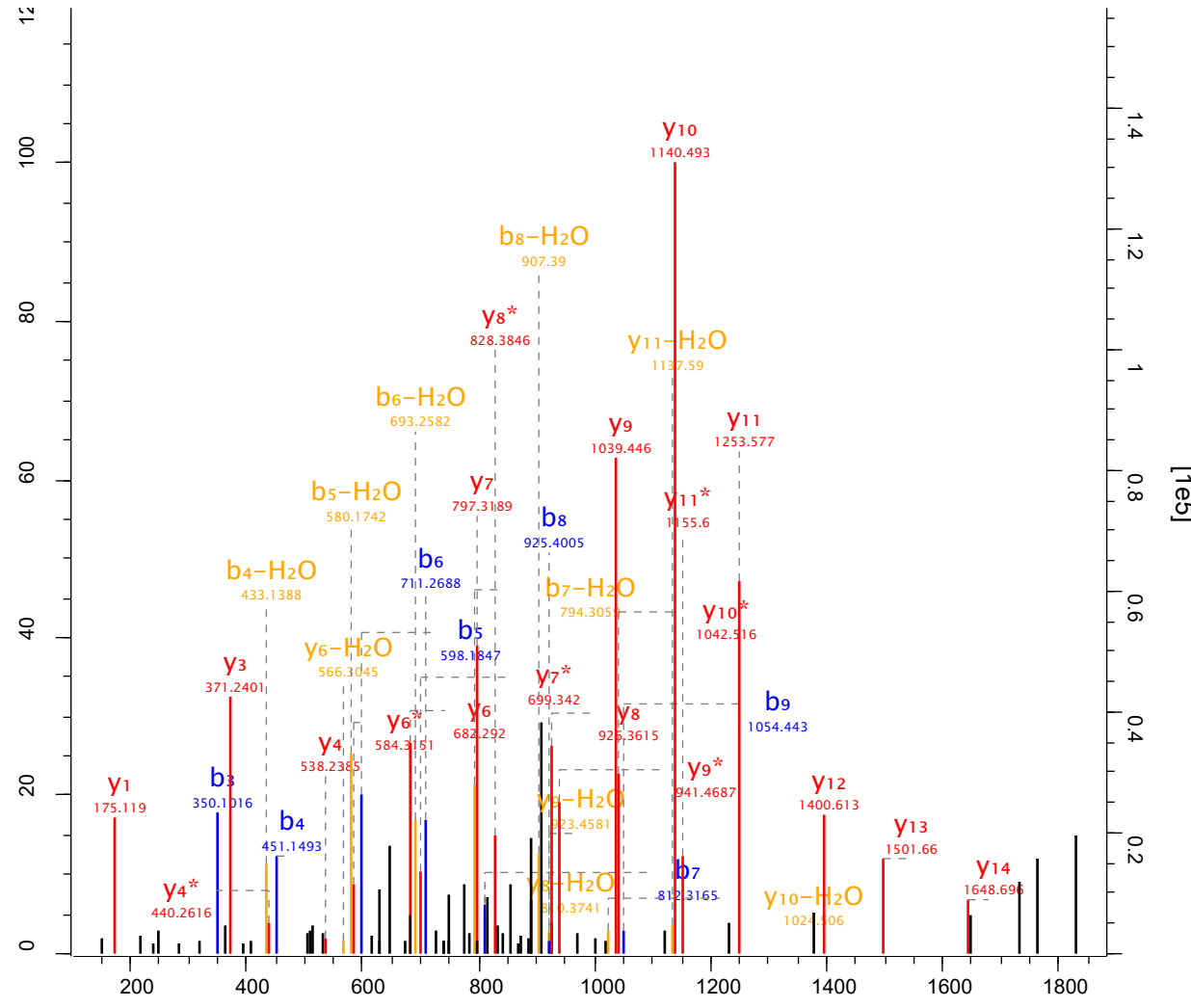
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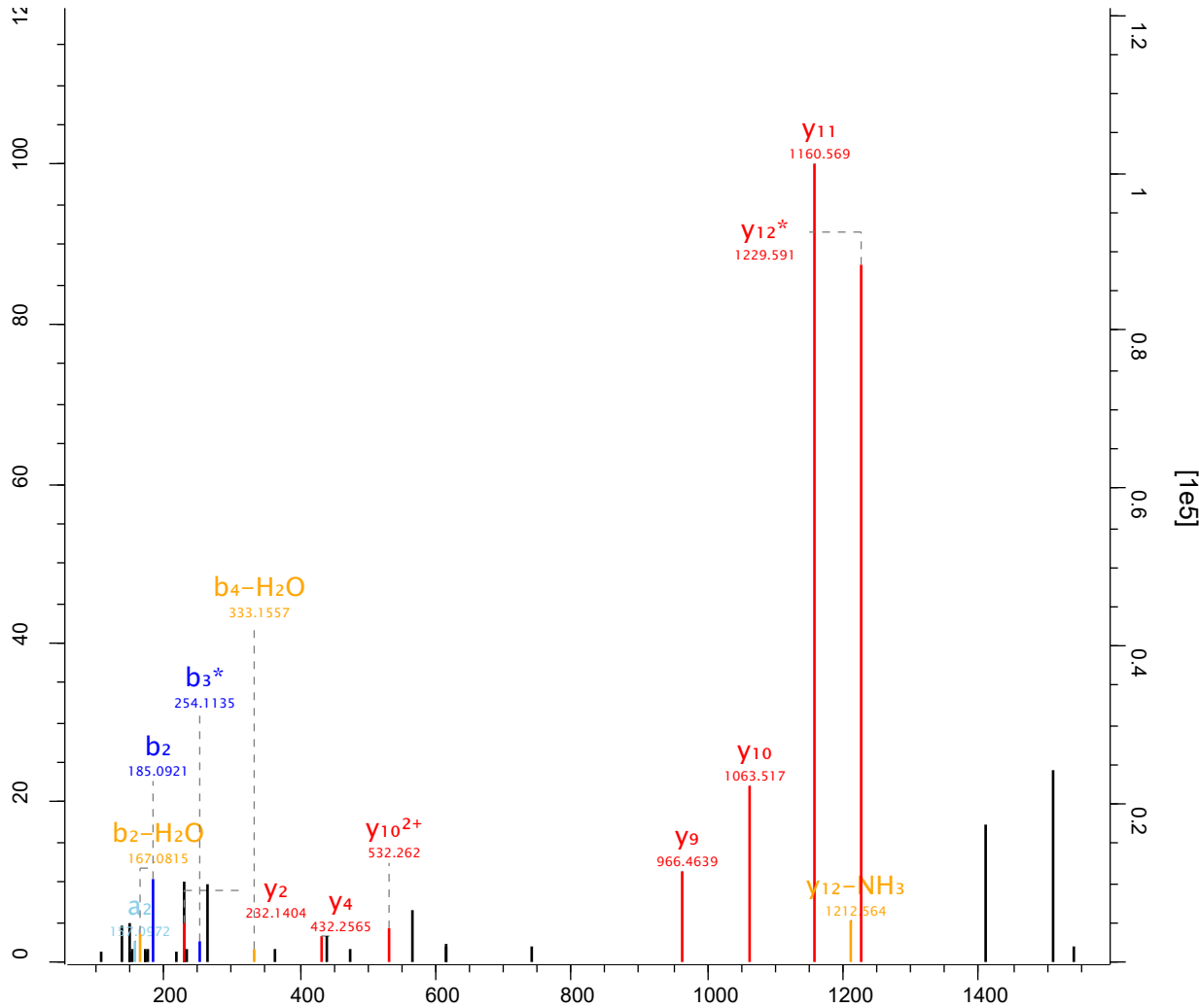
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Raw file Scan Method Score m/z  
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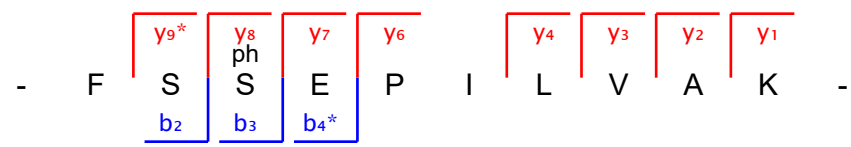
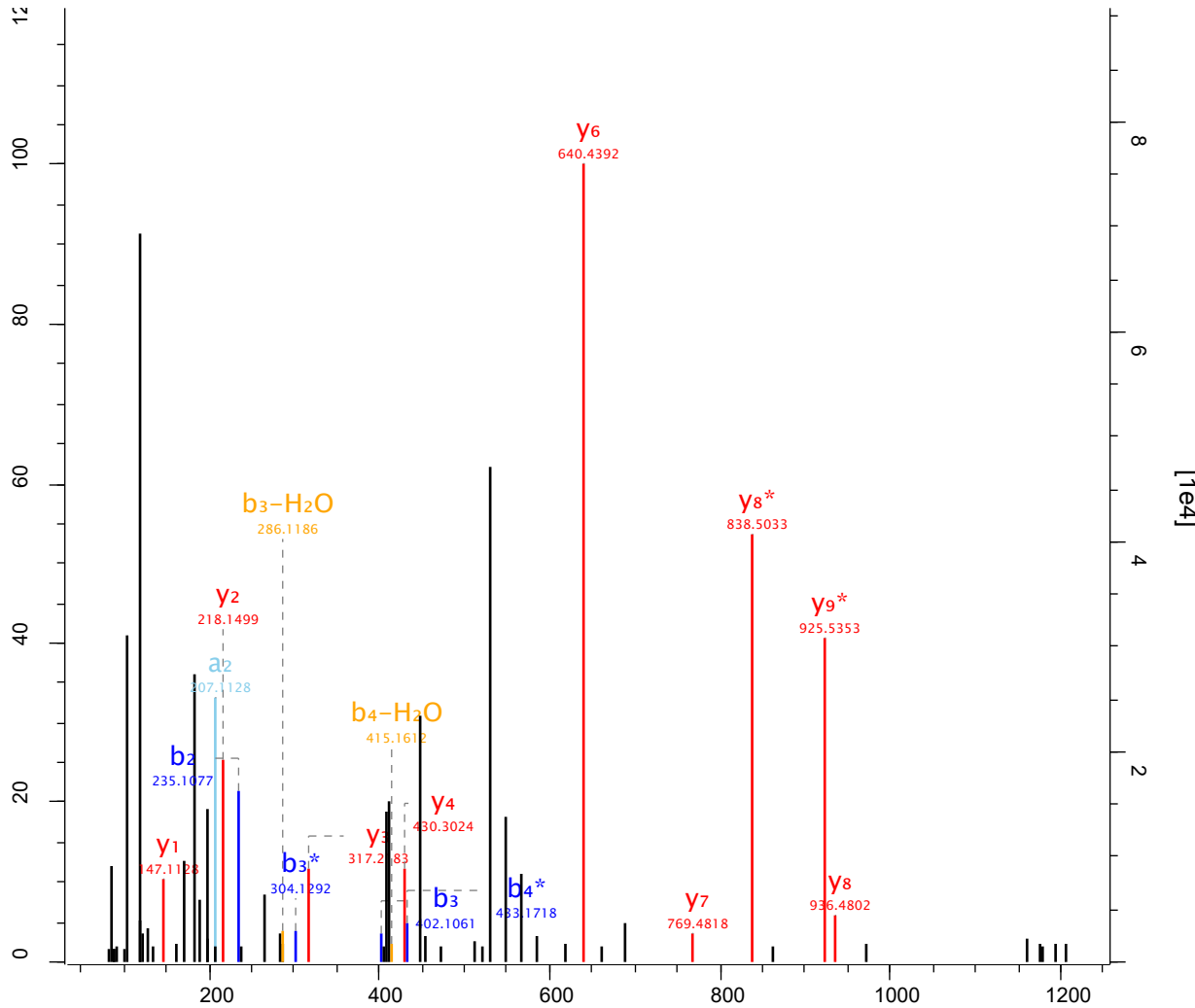
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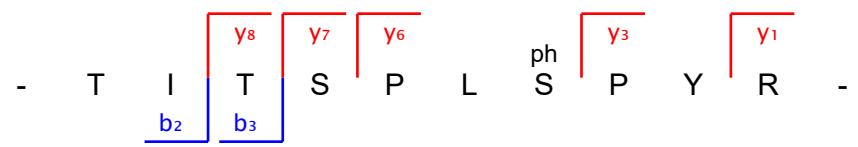
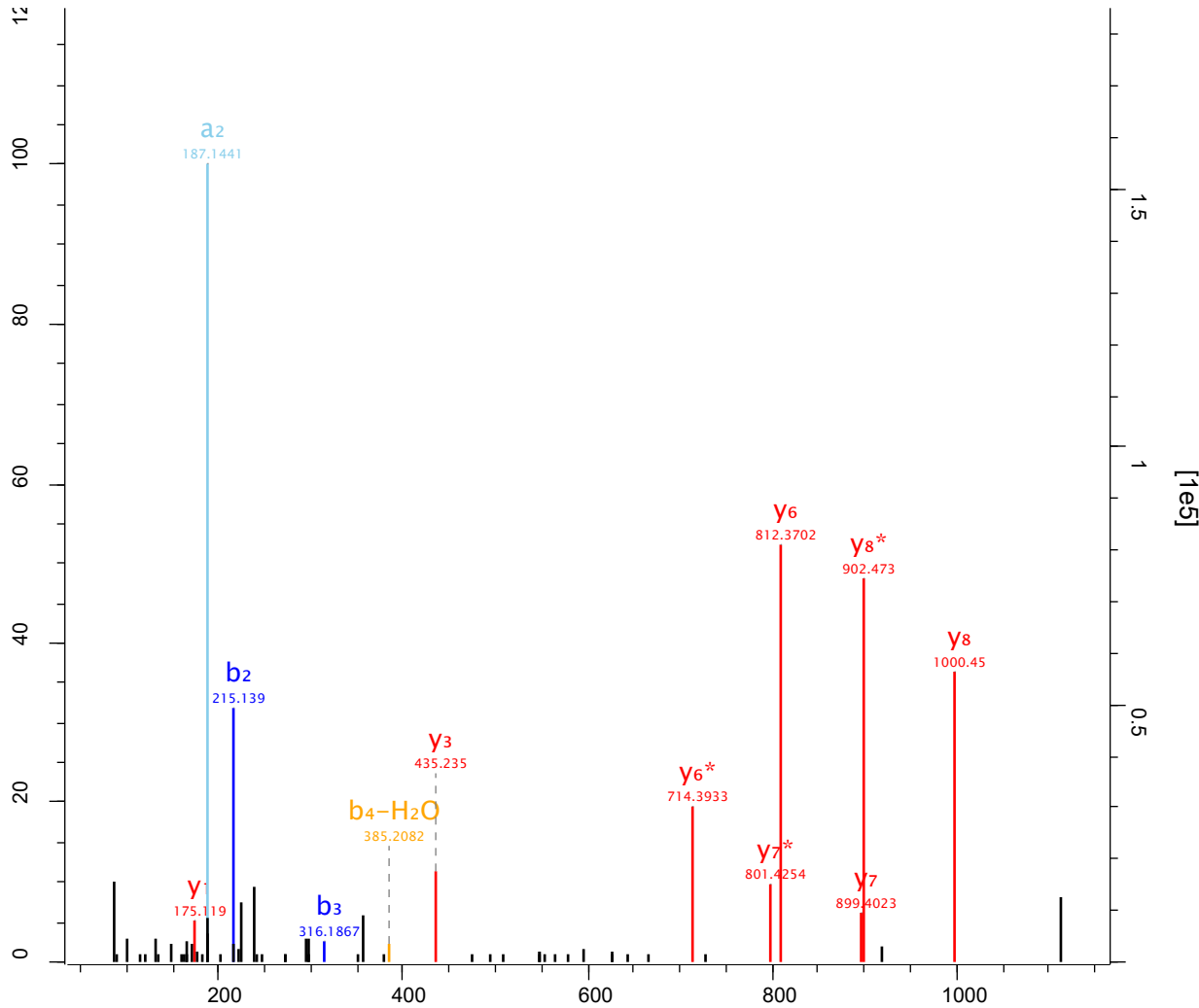
- S P y12\*  
ph  
S y11 y10 y9 G N E F y4 S I y2 G R -

b2 b3\*

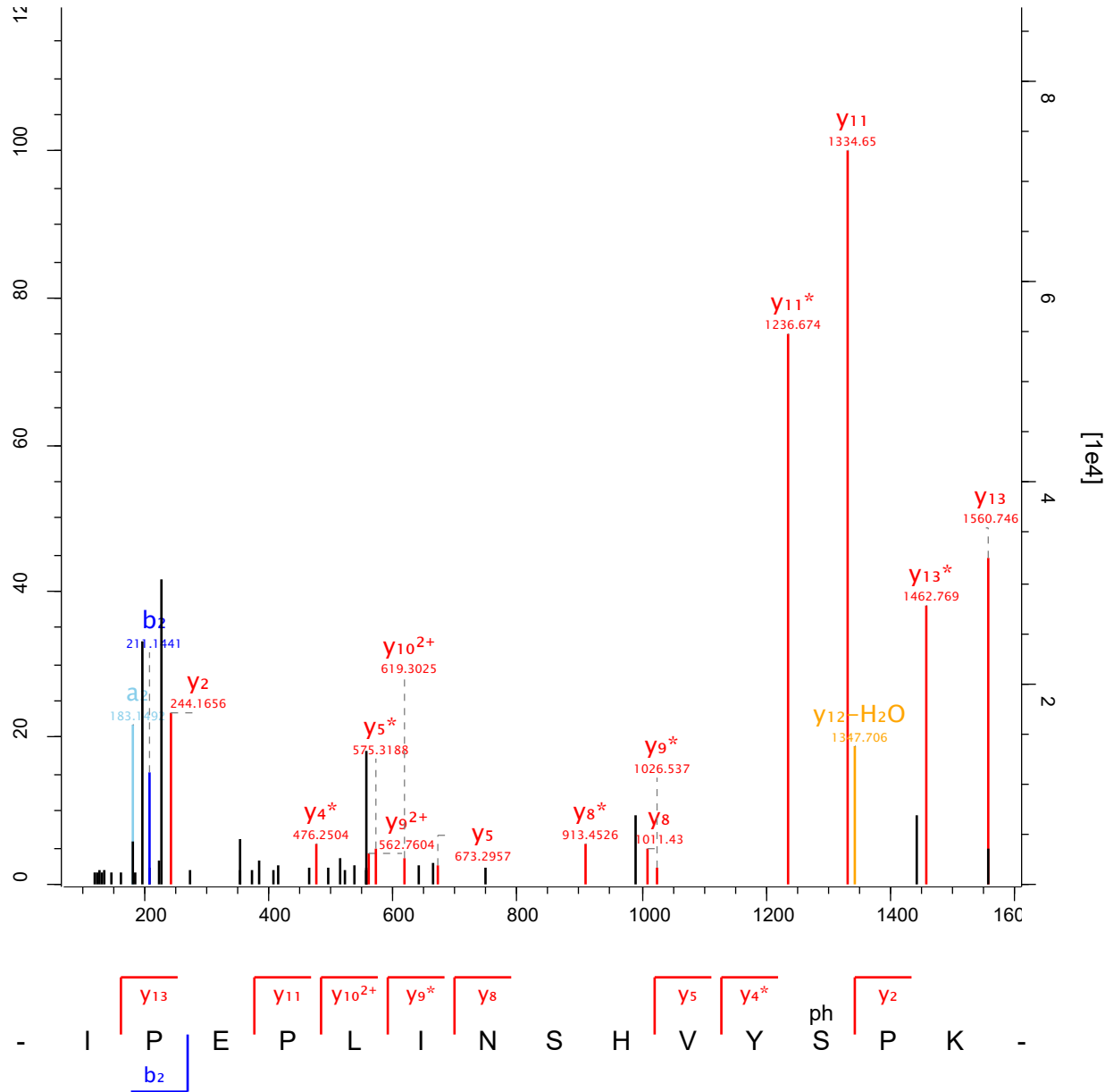
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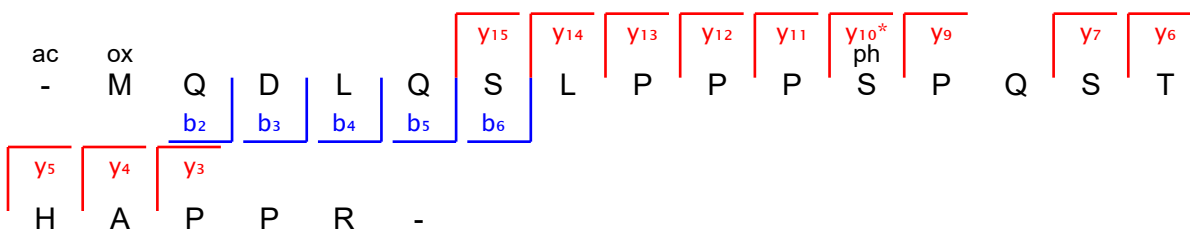
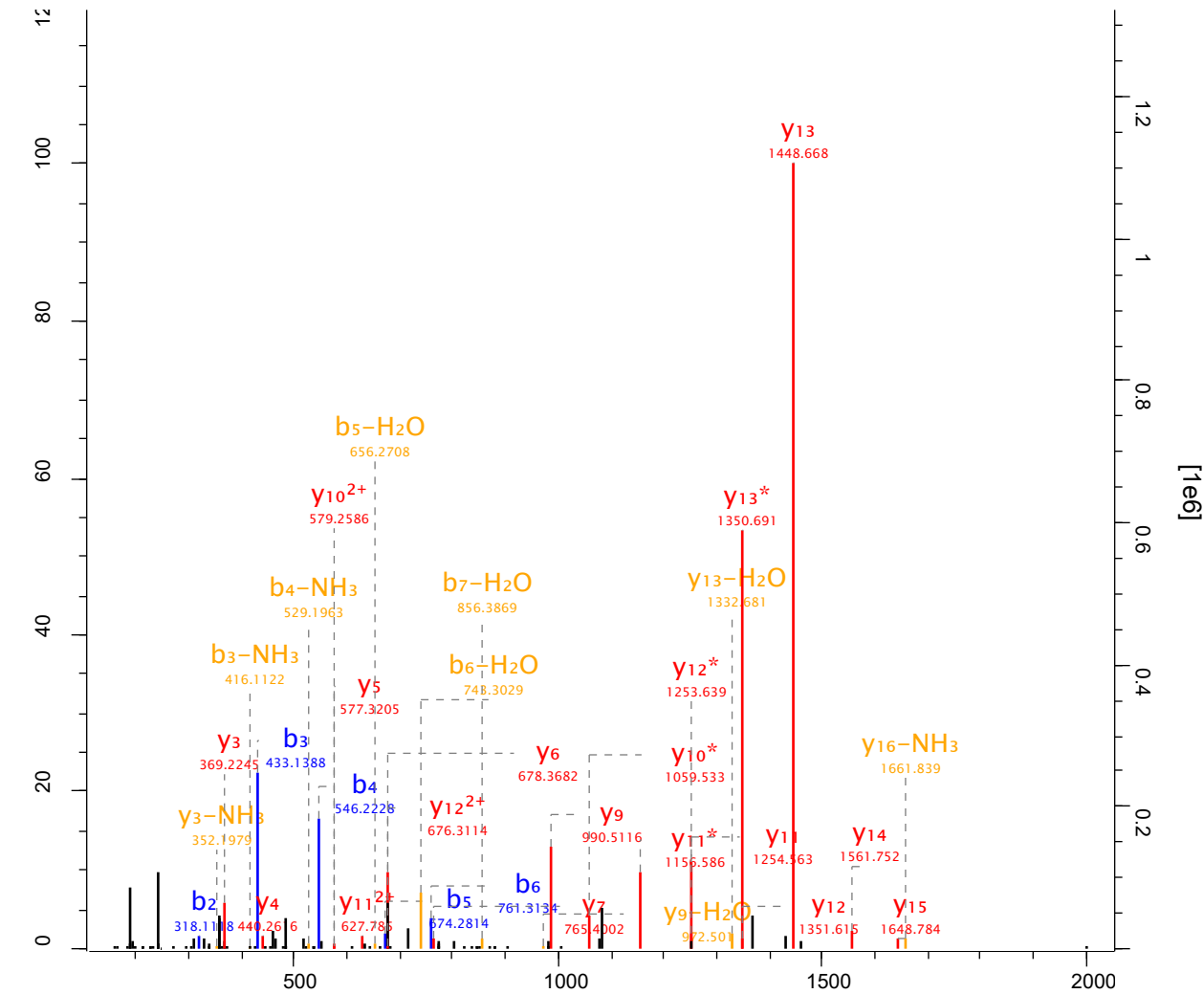
Raw file	Scan	Method	Score	m/z
sys_15_1	23894	FTMS; HCD	53.45	607.79



Raw file Scan Method Score m/z  
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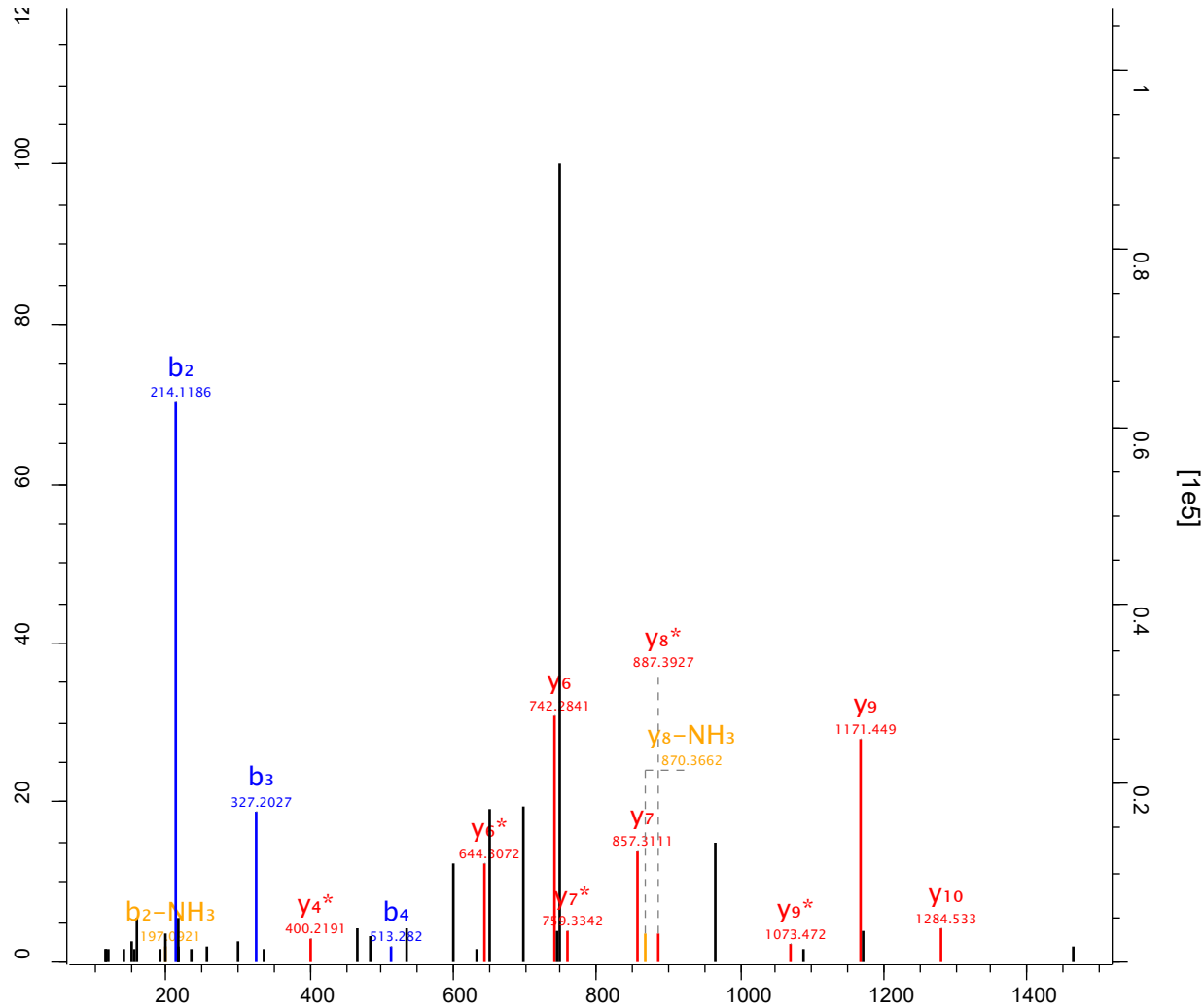


Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
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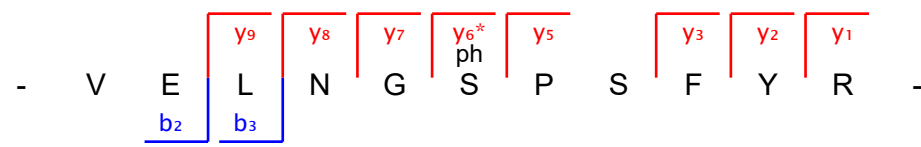
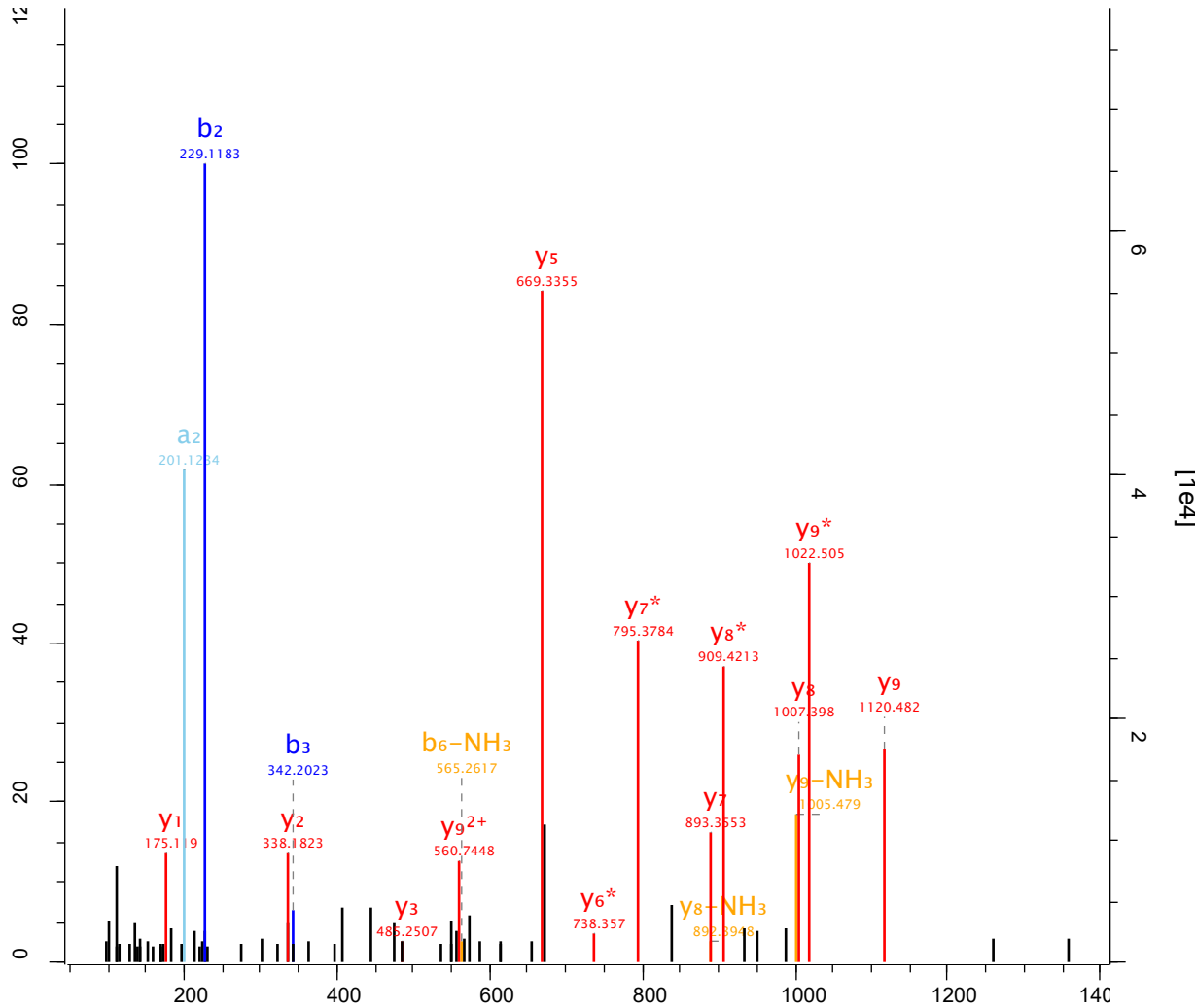


- V N I W Q D P ox M S P S K -

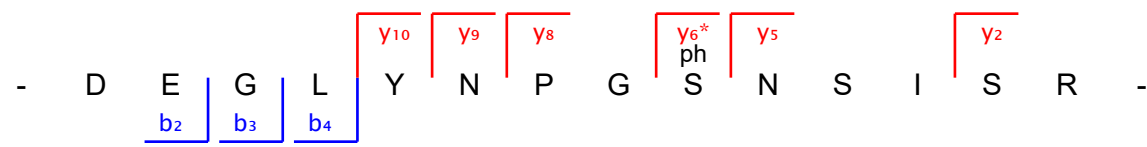
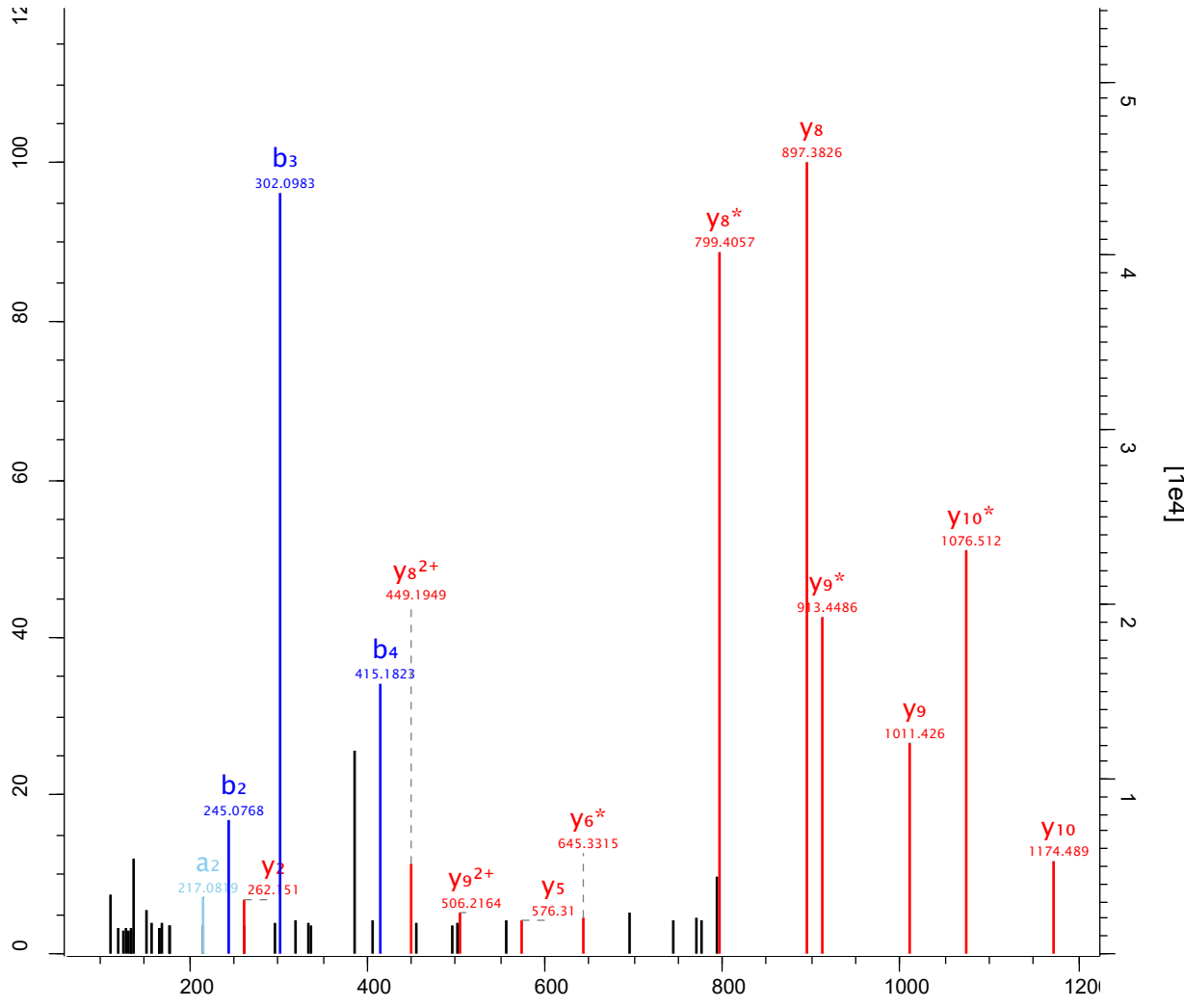
Annotations below the sequence:

- b<sub>2</sub> (under N)
- b<sub>3</sub> (under I)
- b<sub>4</sub> (under W)
- y<sub>10</sub> (above I)
- y<sub>9</sub> (above W)
- y<sub>8</sub>\*
- y<sub>7</sub>
- y<sub>6</sub>
- y<sub>4</sub>\*
- y<sub>3</sub>\*
- y<sub>2</sub>\*

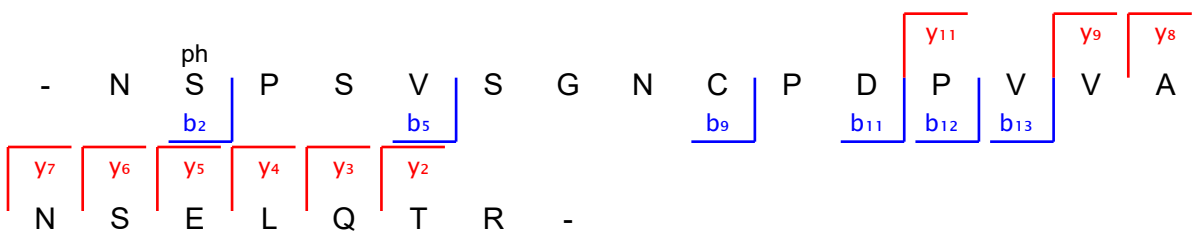
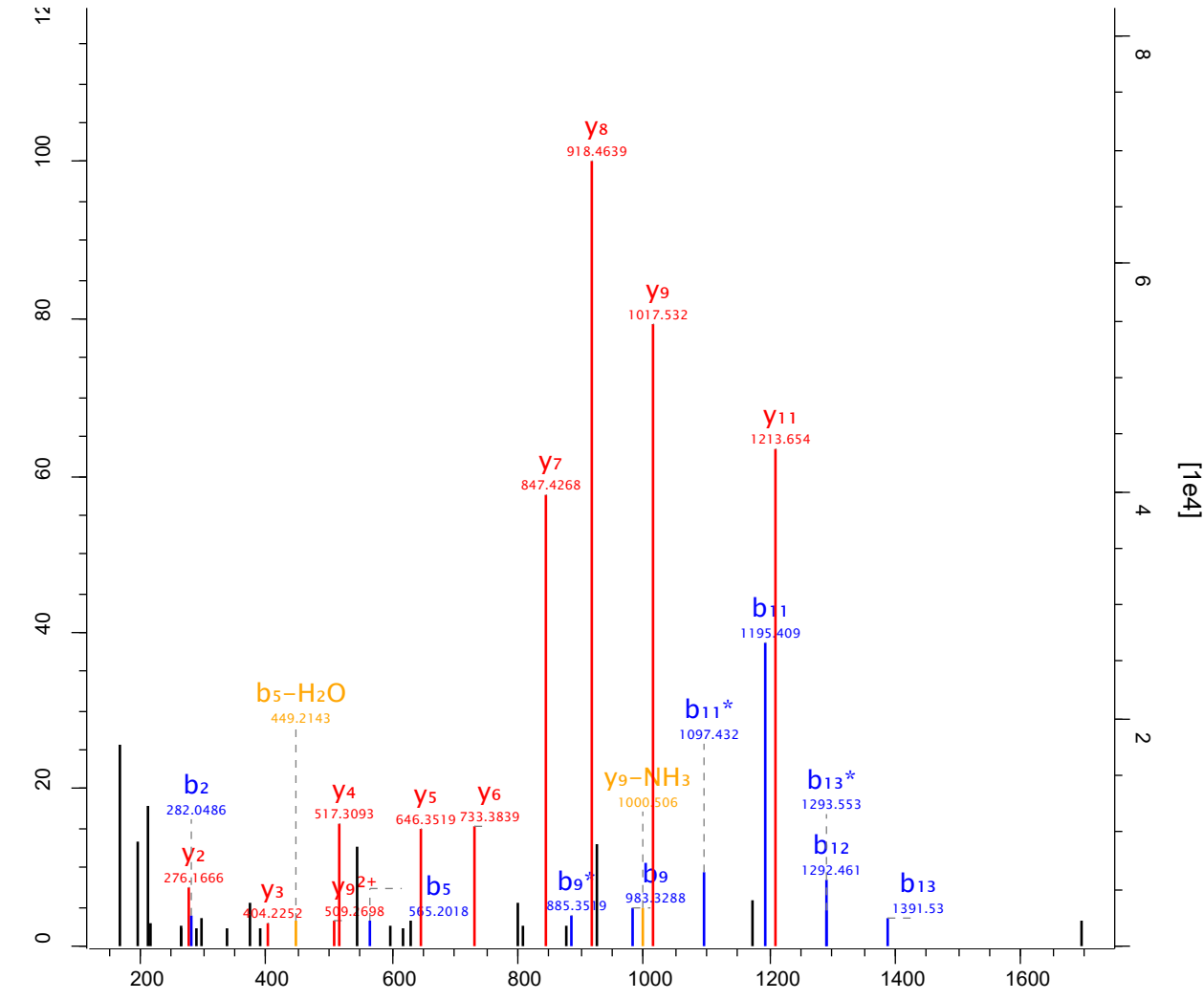
Raw file Scan Method Score m/z  
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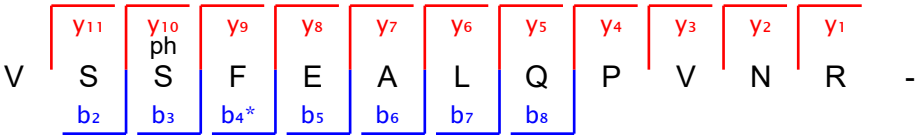
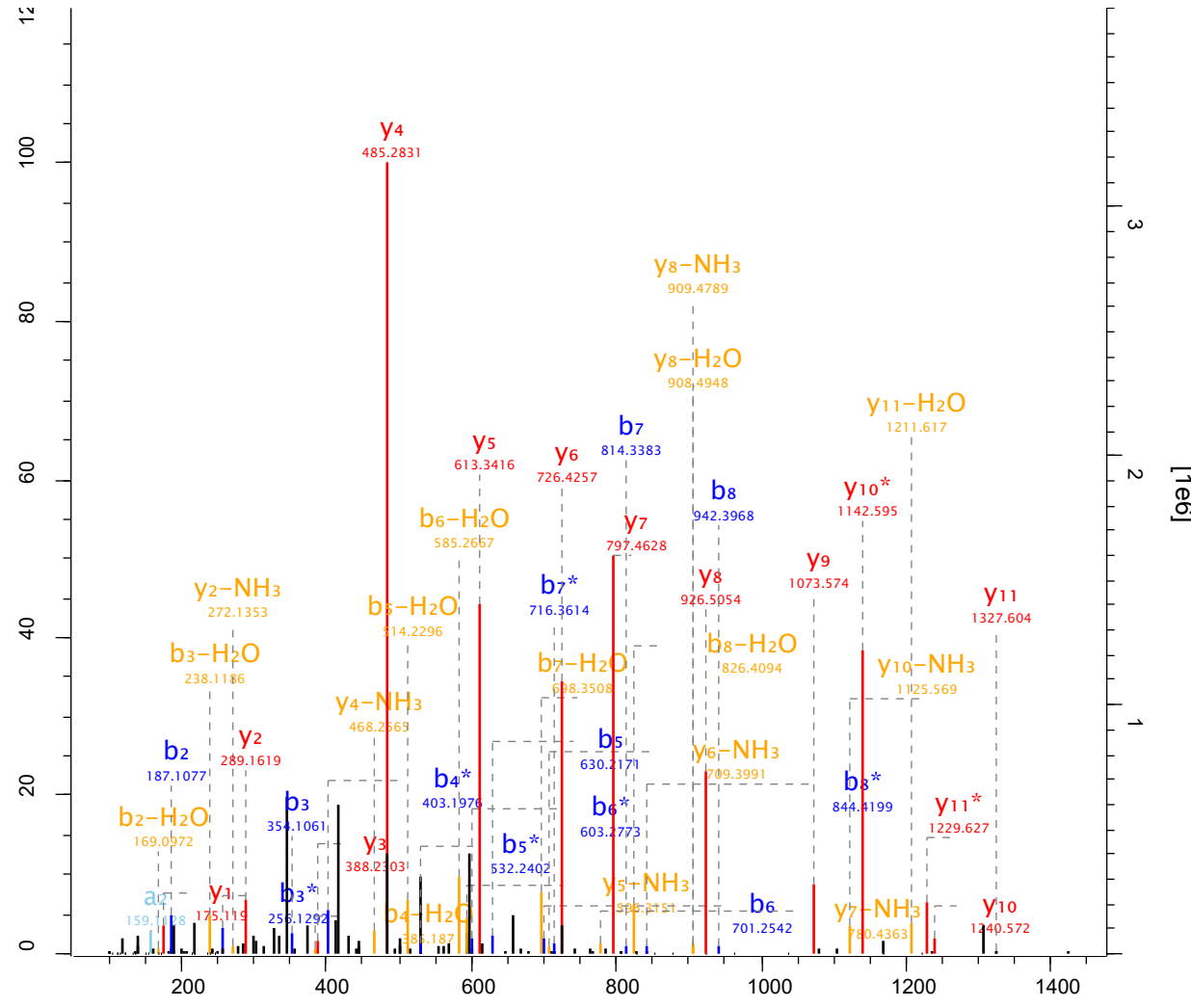
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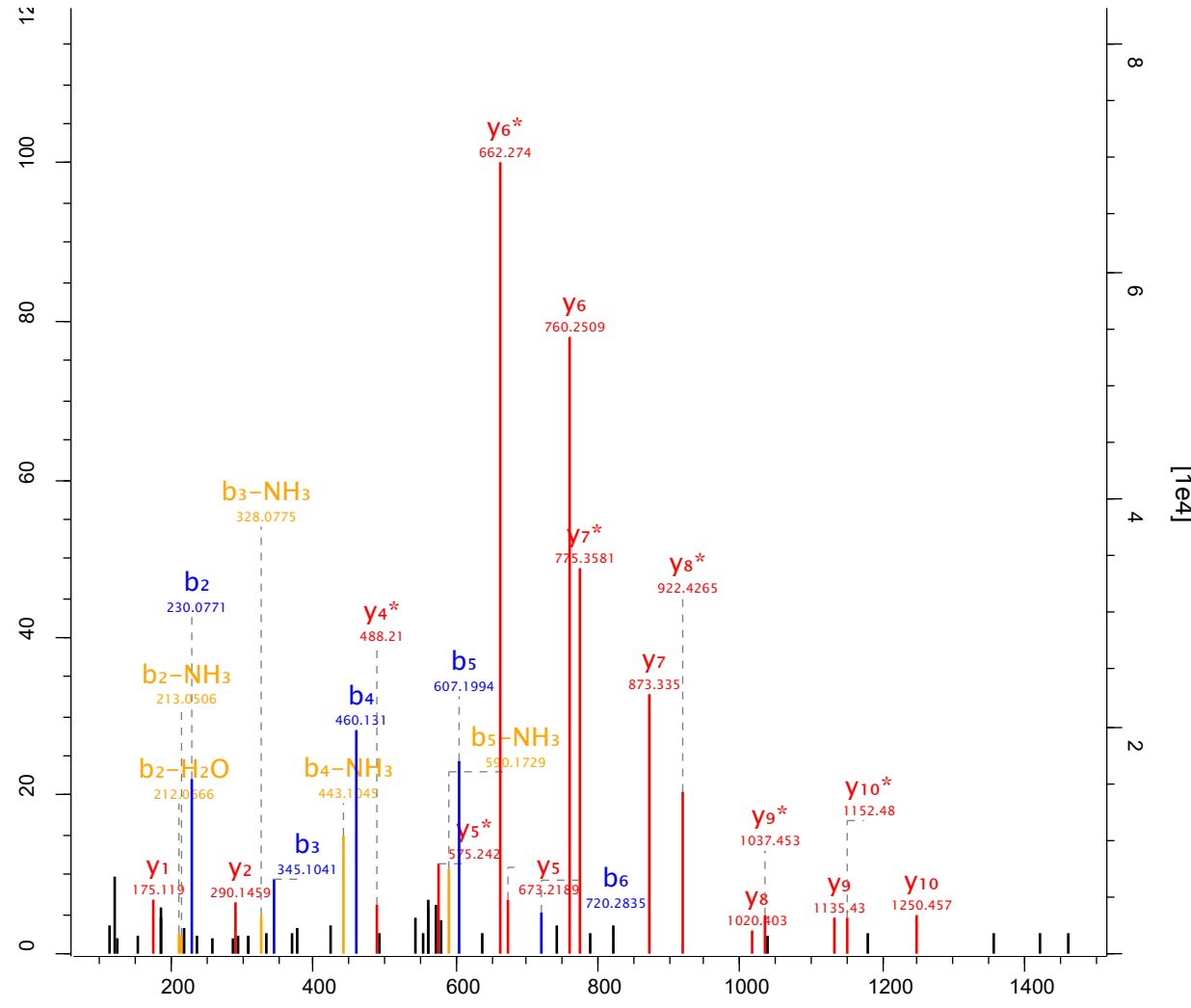
Raw file Scan Method Score m/z  
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Raw file Scan Method Score m/z  
 sys\_15\_1 24464 FTMS; HCD 238.88 713.84



Raw file Scan Method Score m/z  
 sys\_15\_1 24523 FTMS; HCD 127.83 740.27



- D N D D F I S S E ph S D R -

b<sub>2</sub>
b<sub>3</sub>
b<sub>4</sub>
b<sub>5</sub>
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y<sub>2</sub>
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