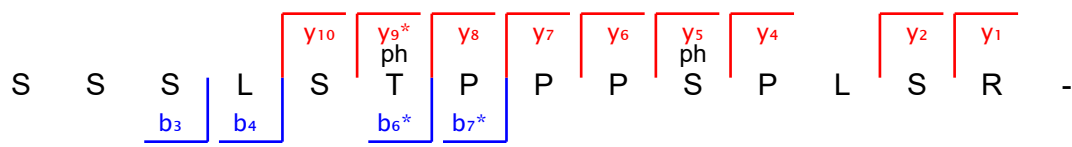
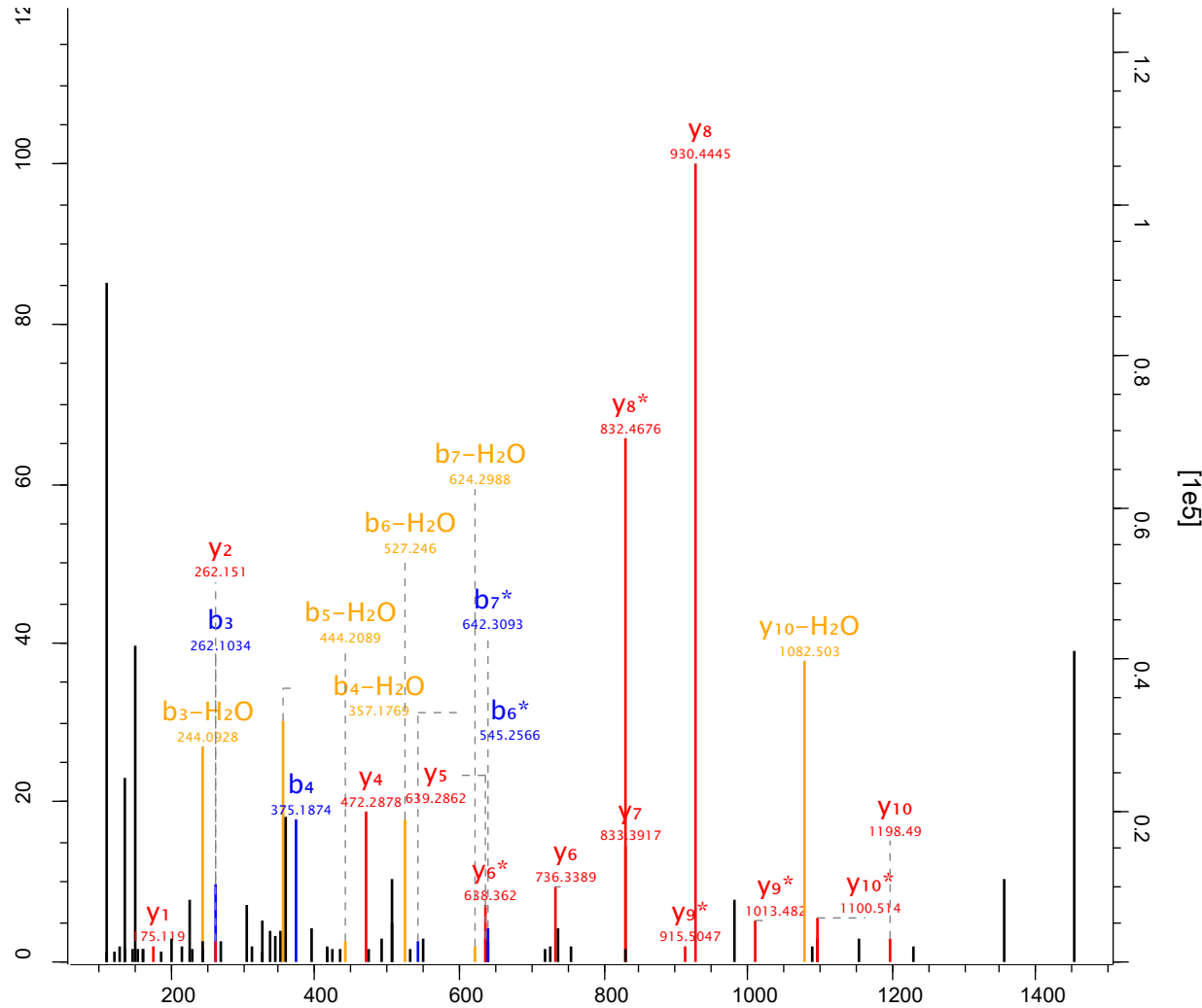
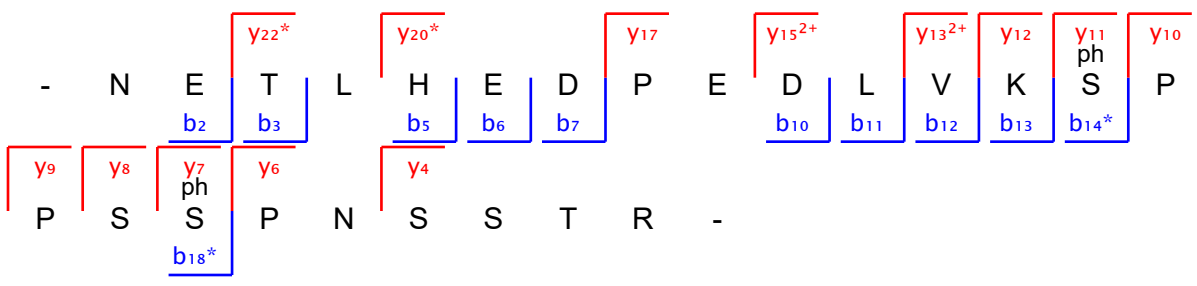
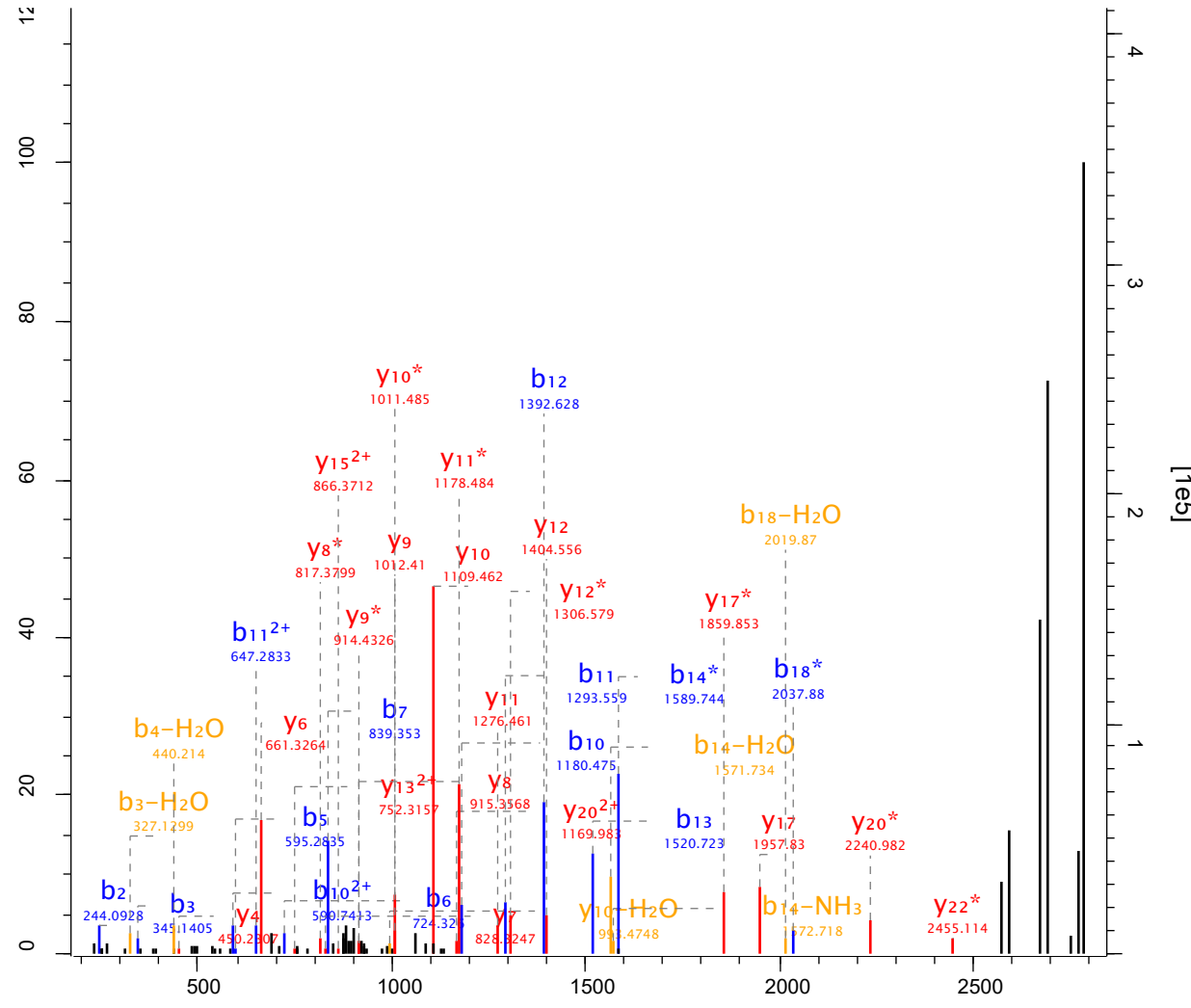


Supplementary Figure 2: Representative annotated spectra of identified phosphopeptides under systemin,A17 and water treatment as exported from MaxQuant.

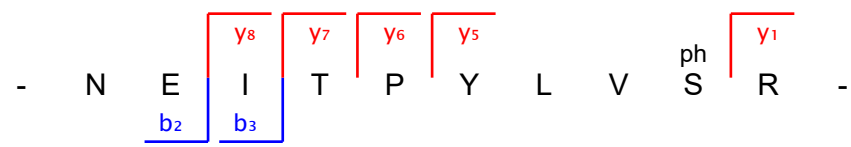
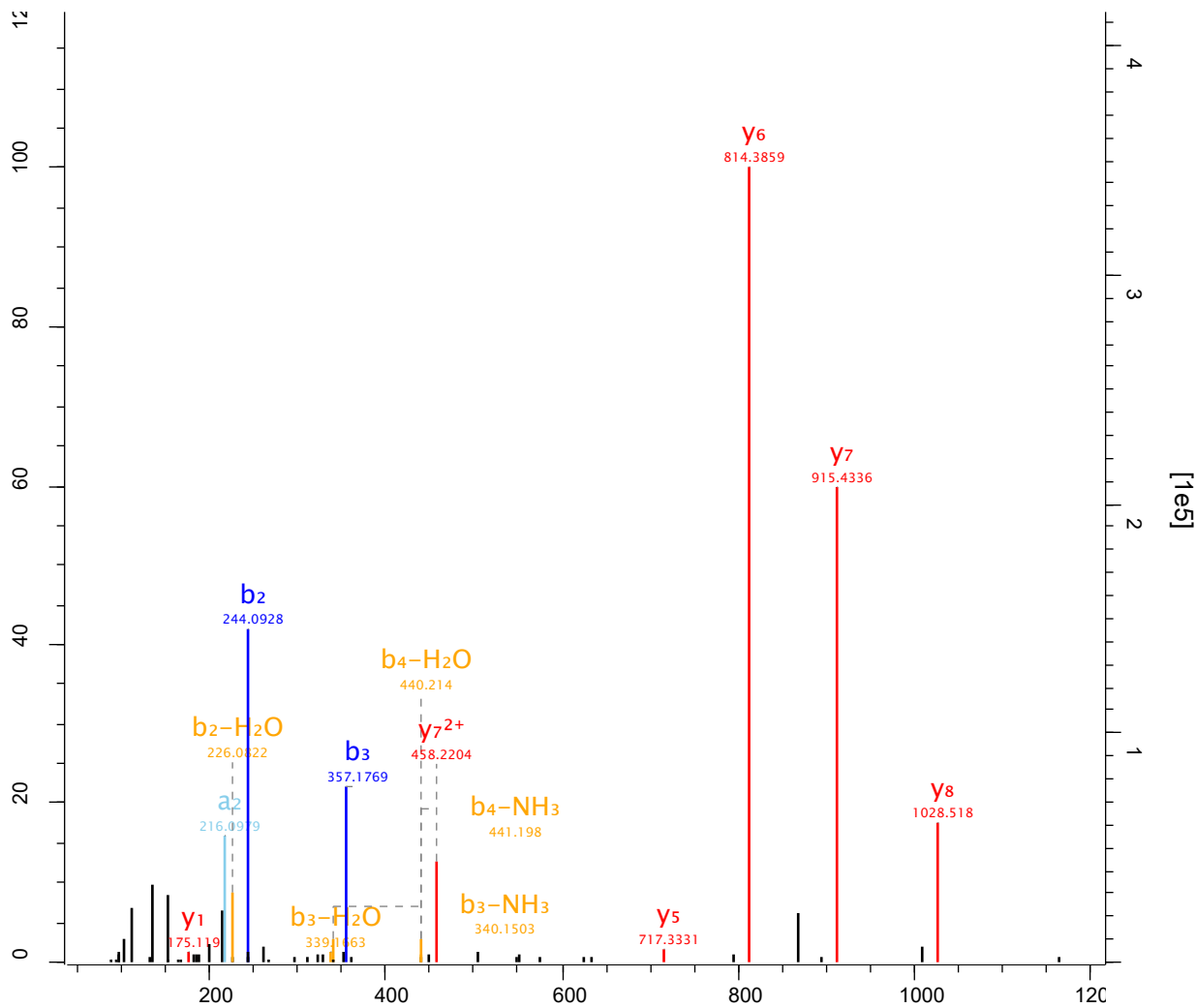
Raw file Scan Method Score m/z
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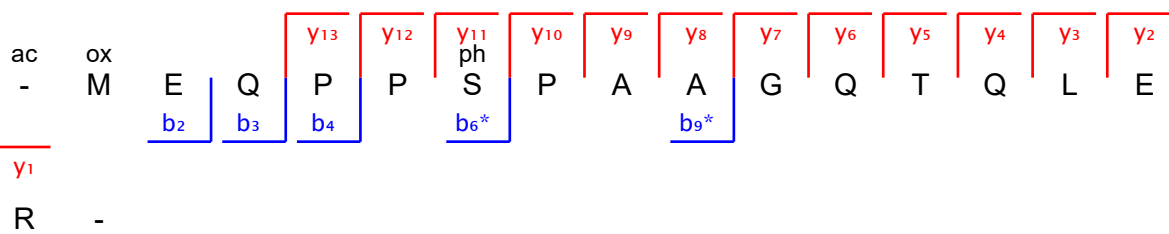
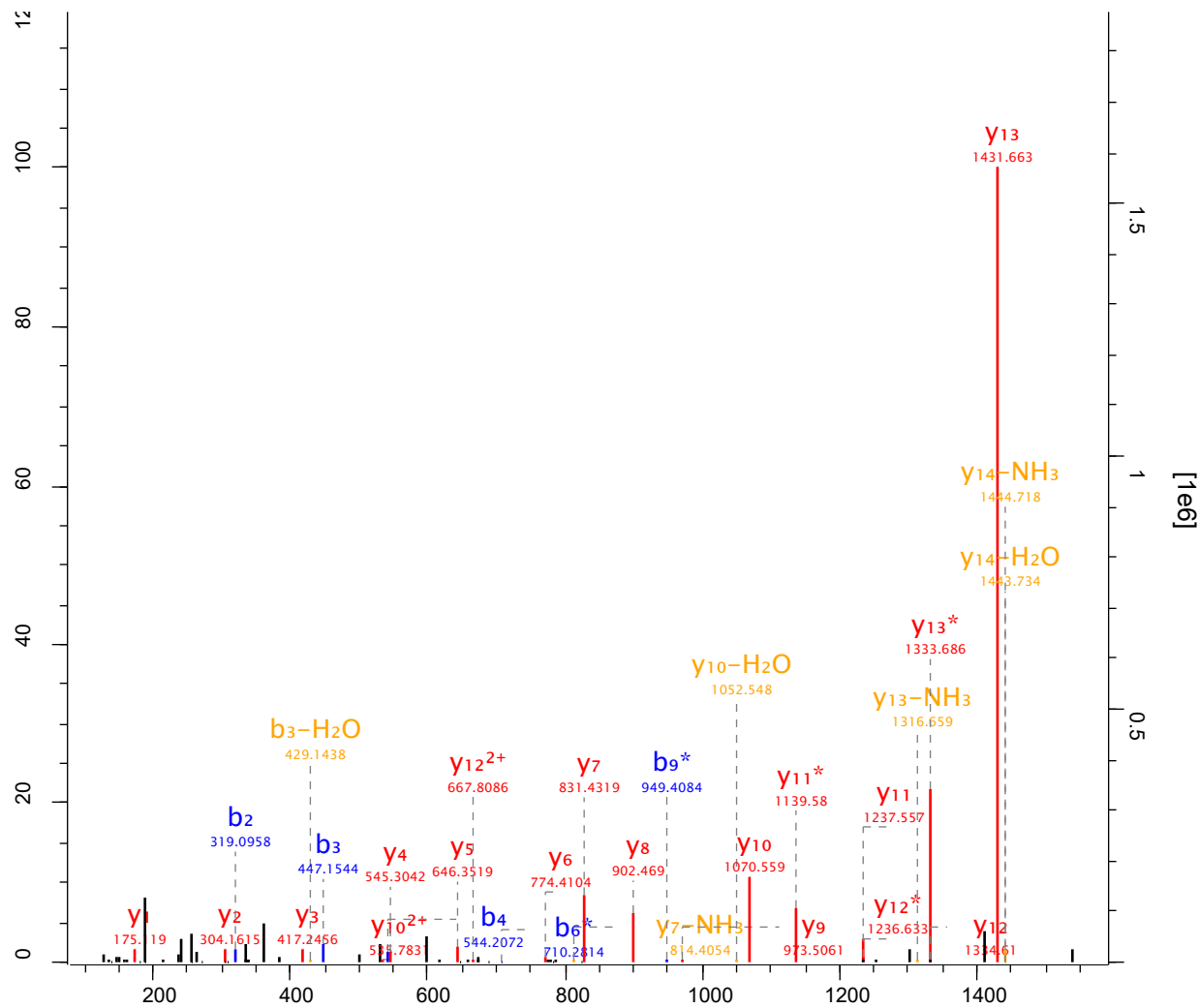
Raw file Scan Method Score m/z
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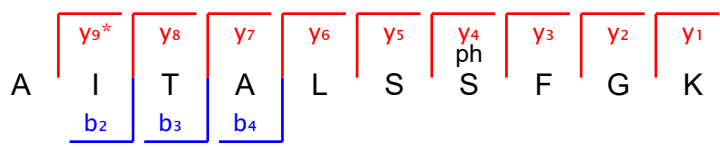
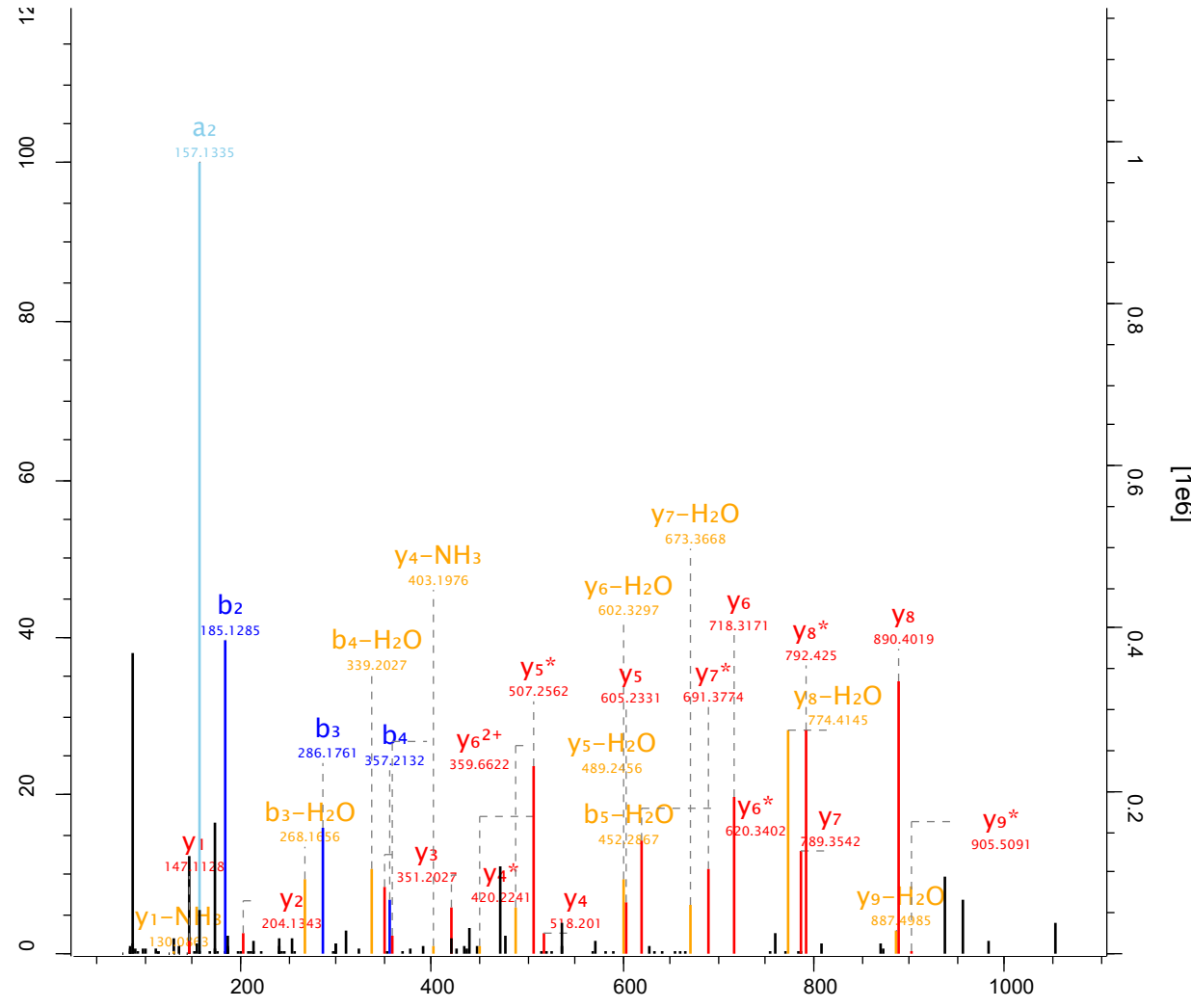
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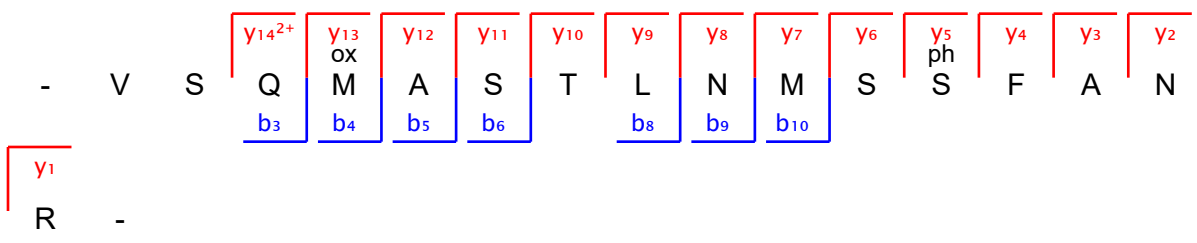
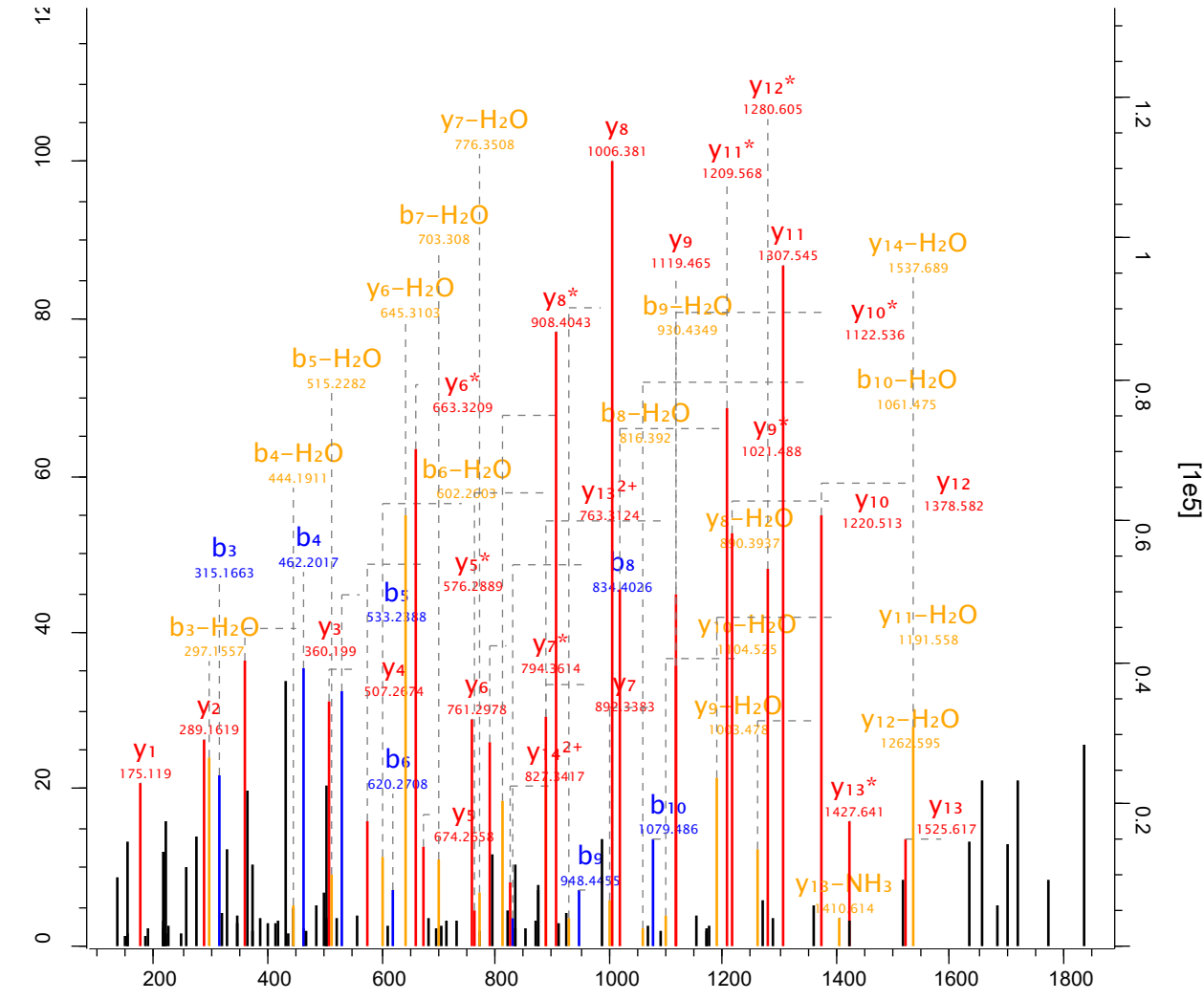
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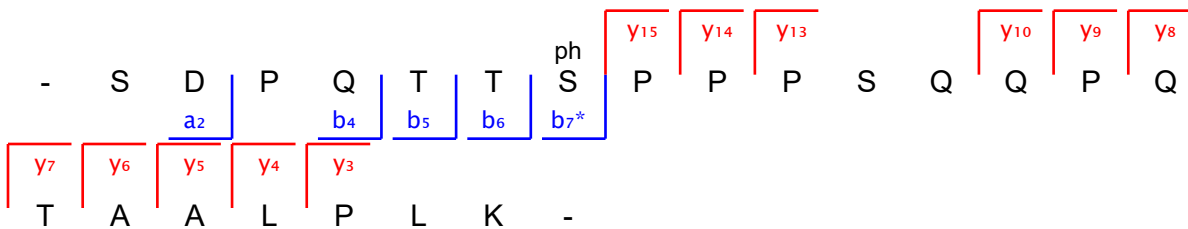
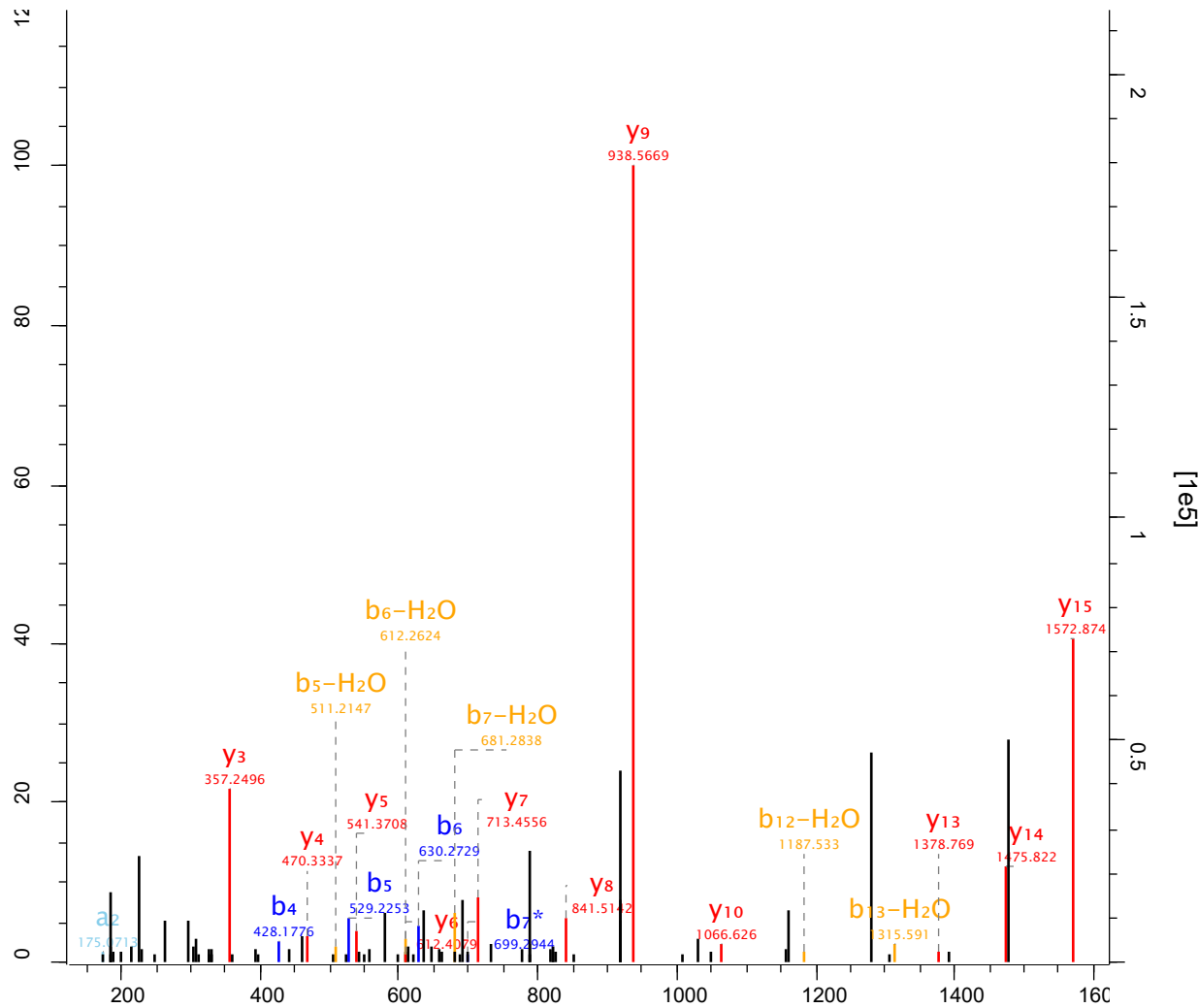
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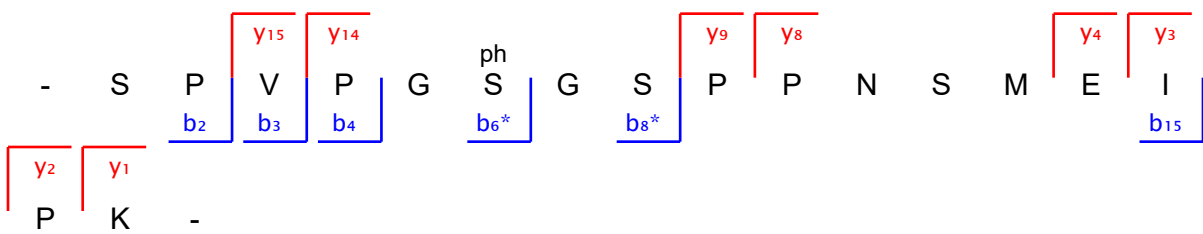
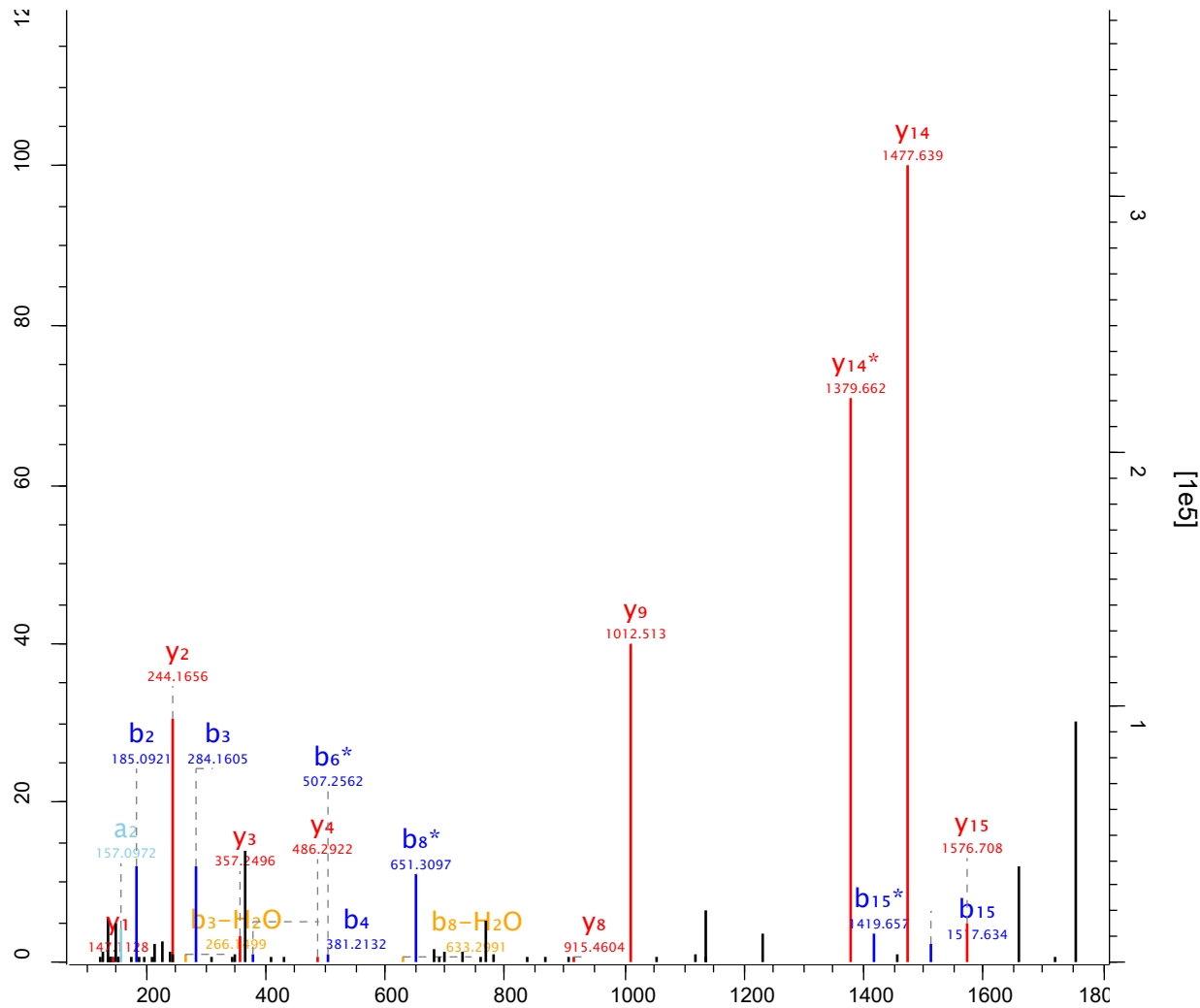
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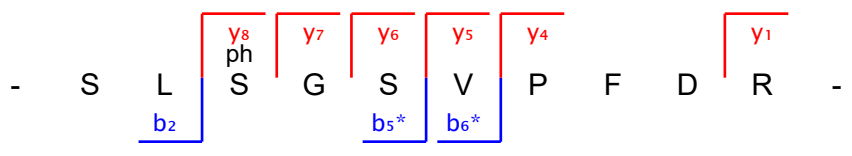
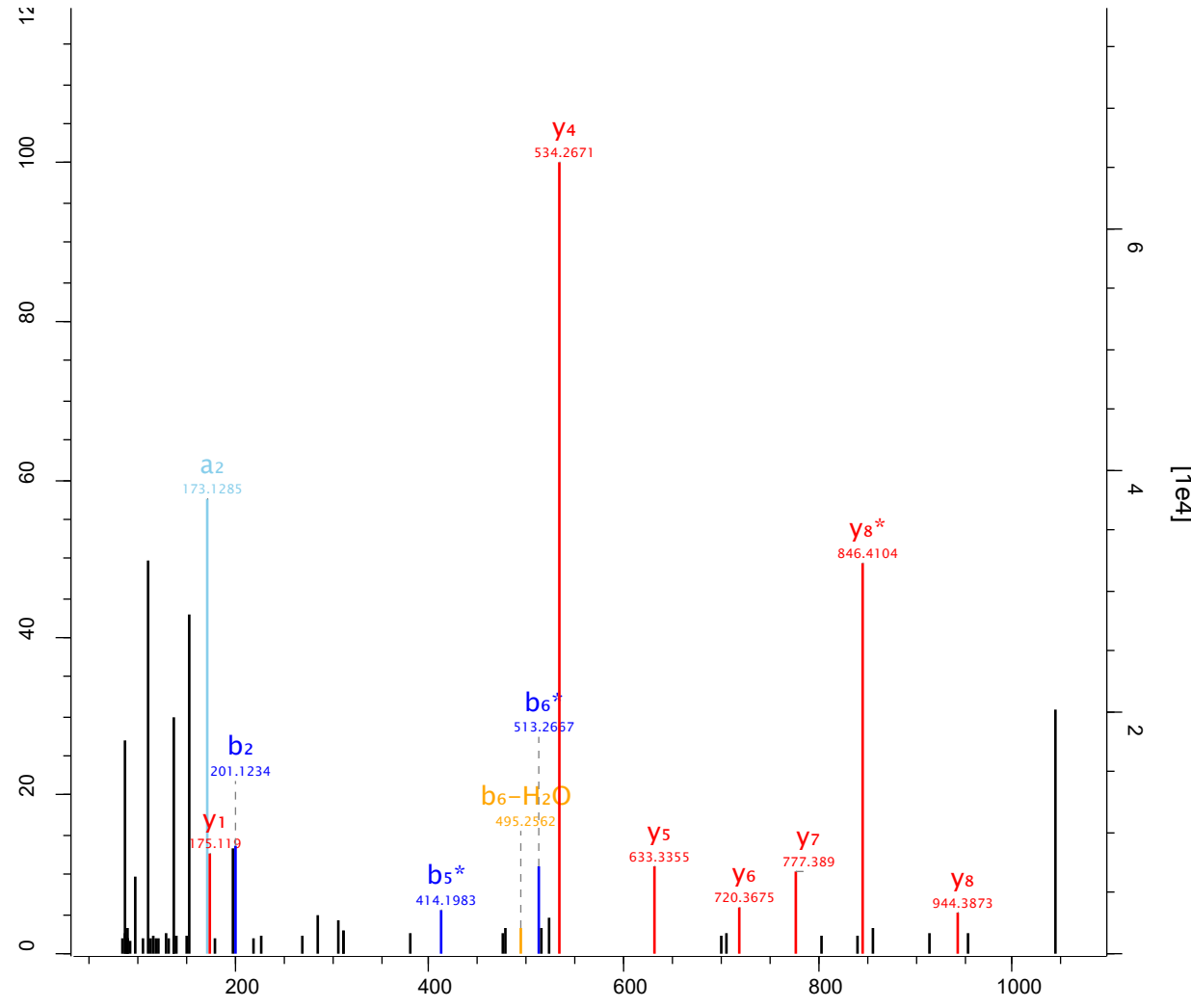
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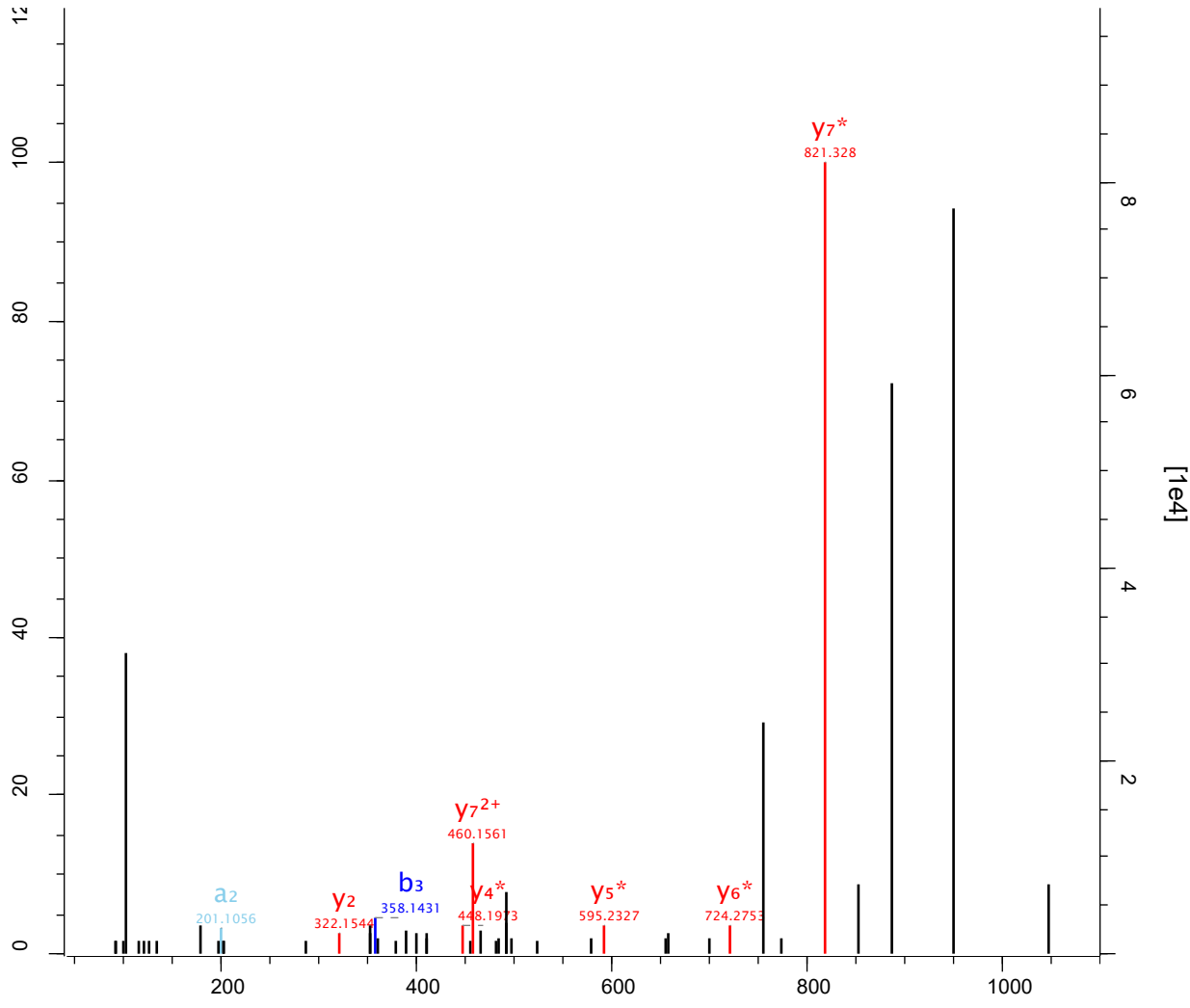
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Raw file Scan Method Score m/z
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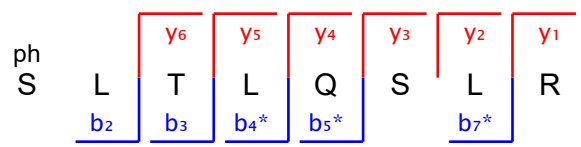
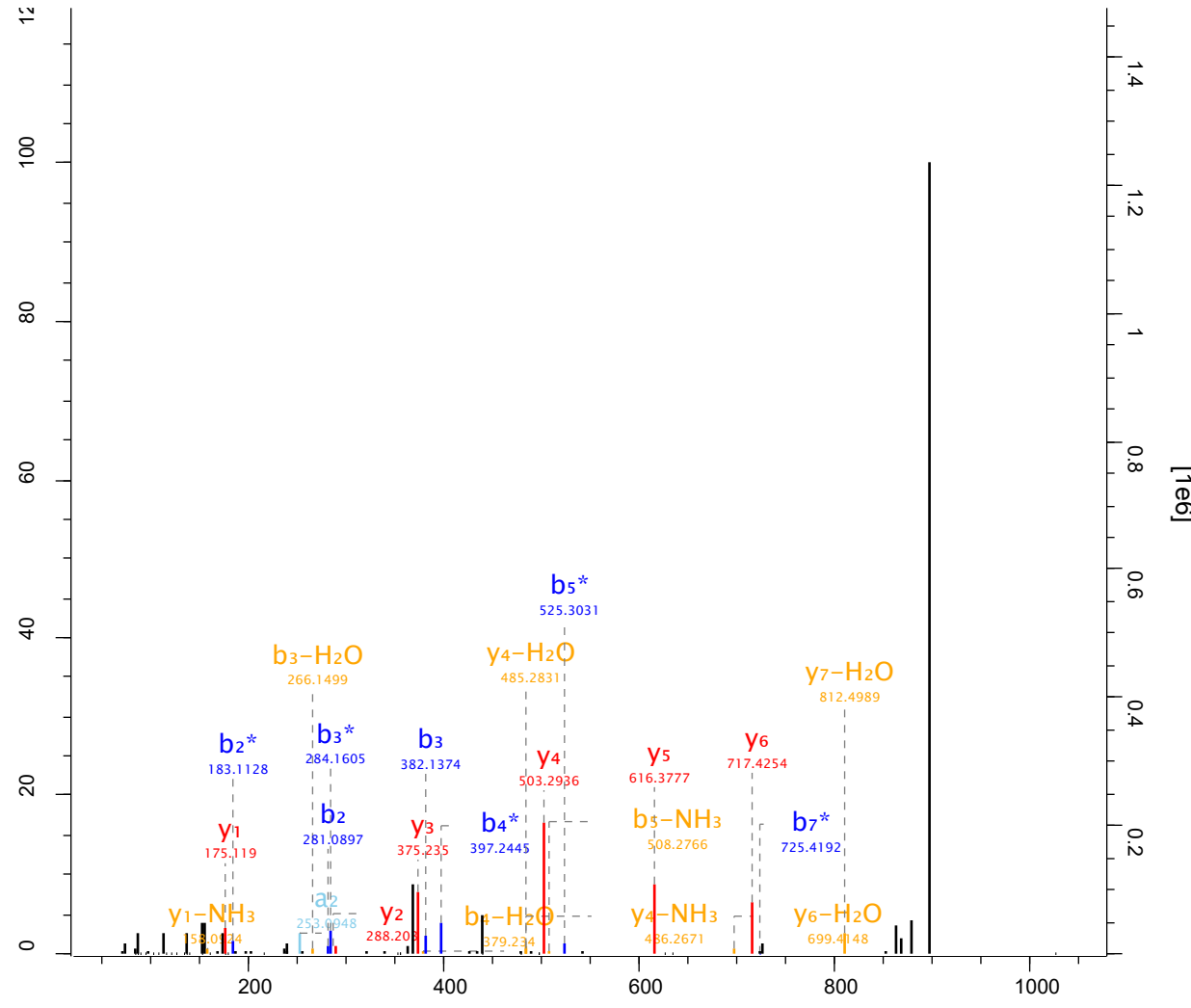
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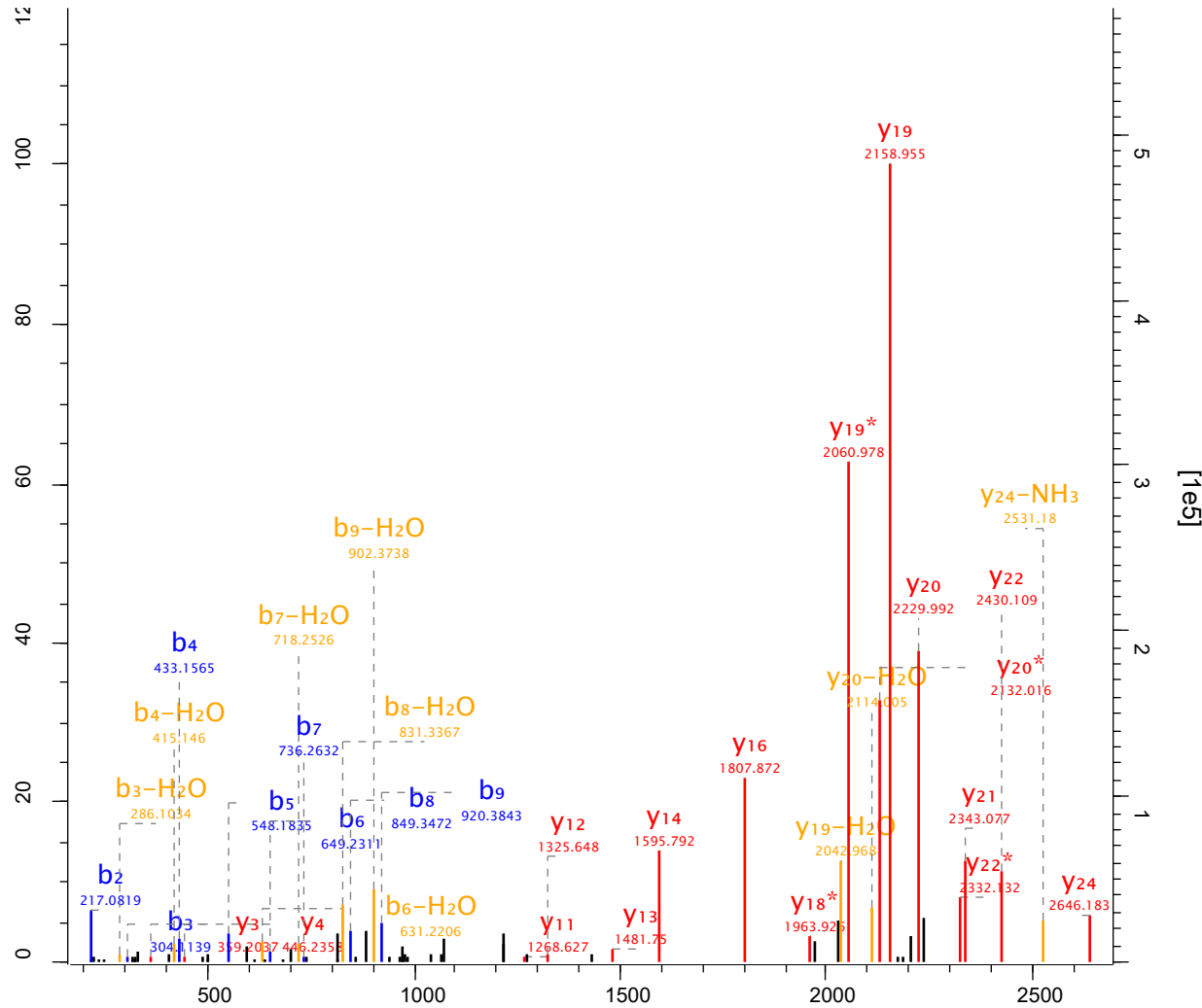
- M y_7^* P y_6^* E y_5^* M y_4^* G ph S y_2 ox M R -

a_2 b_3

Raw file Scan Method Score m/z
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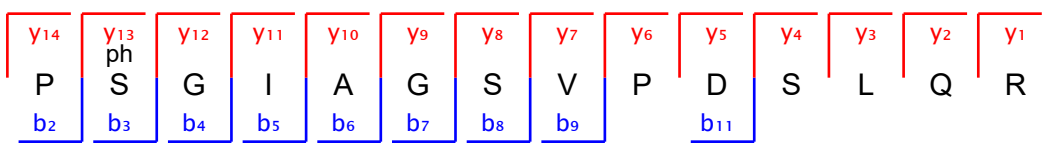
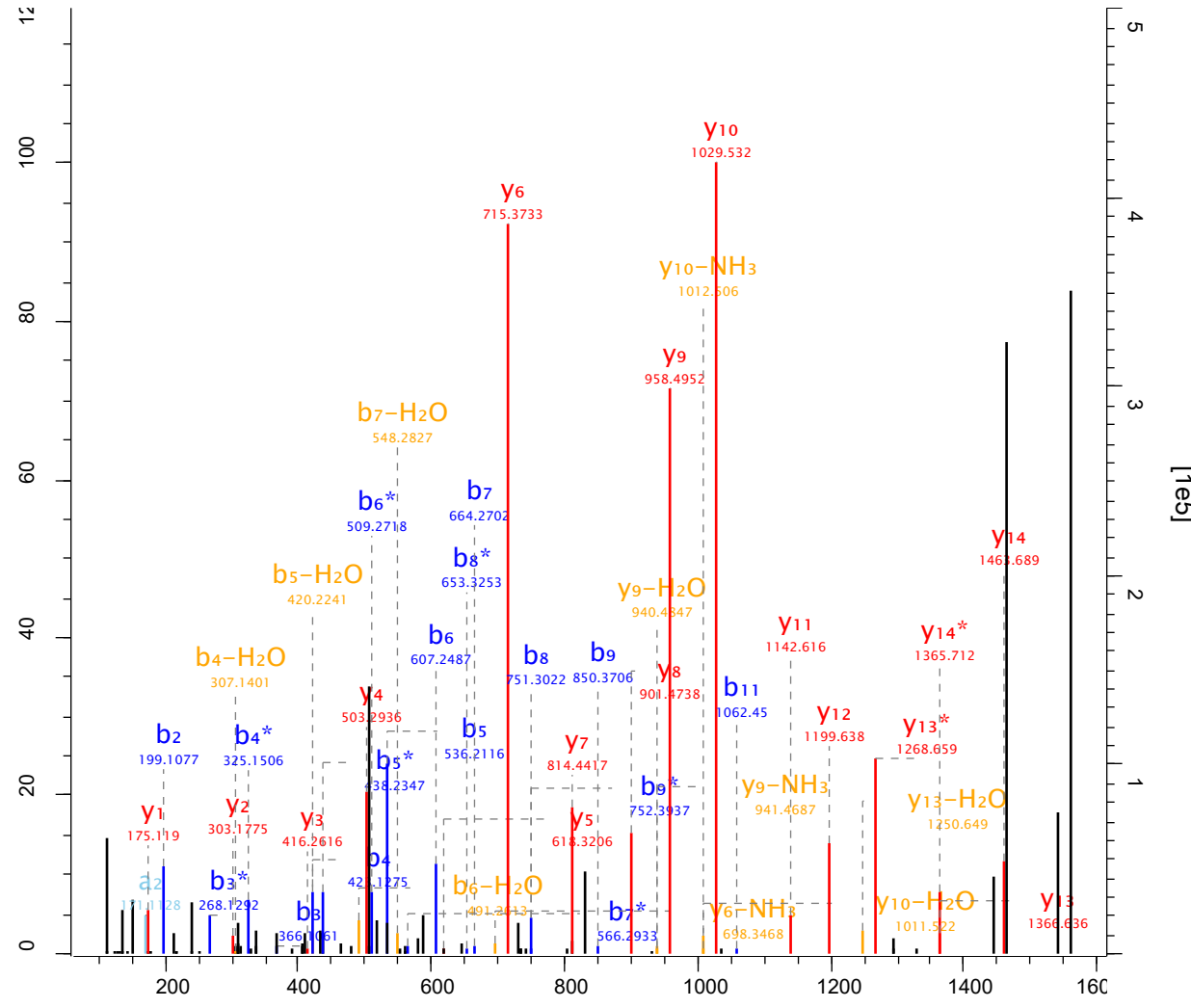


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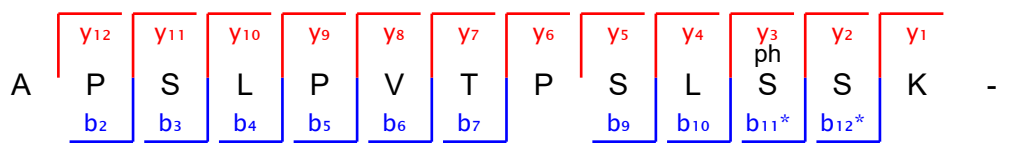
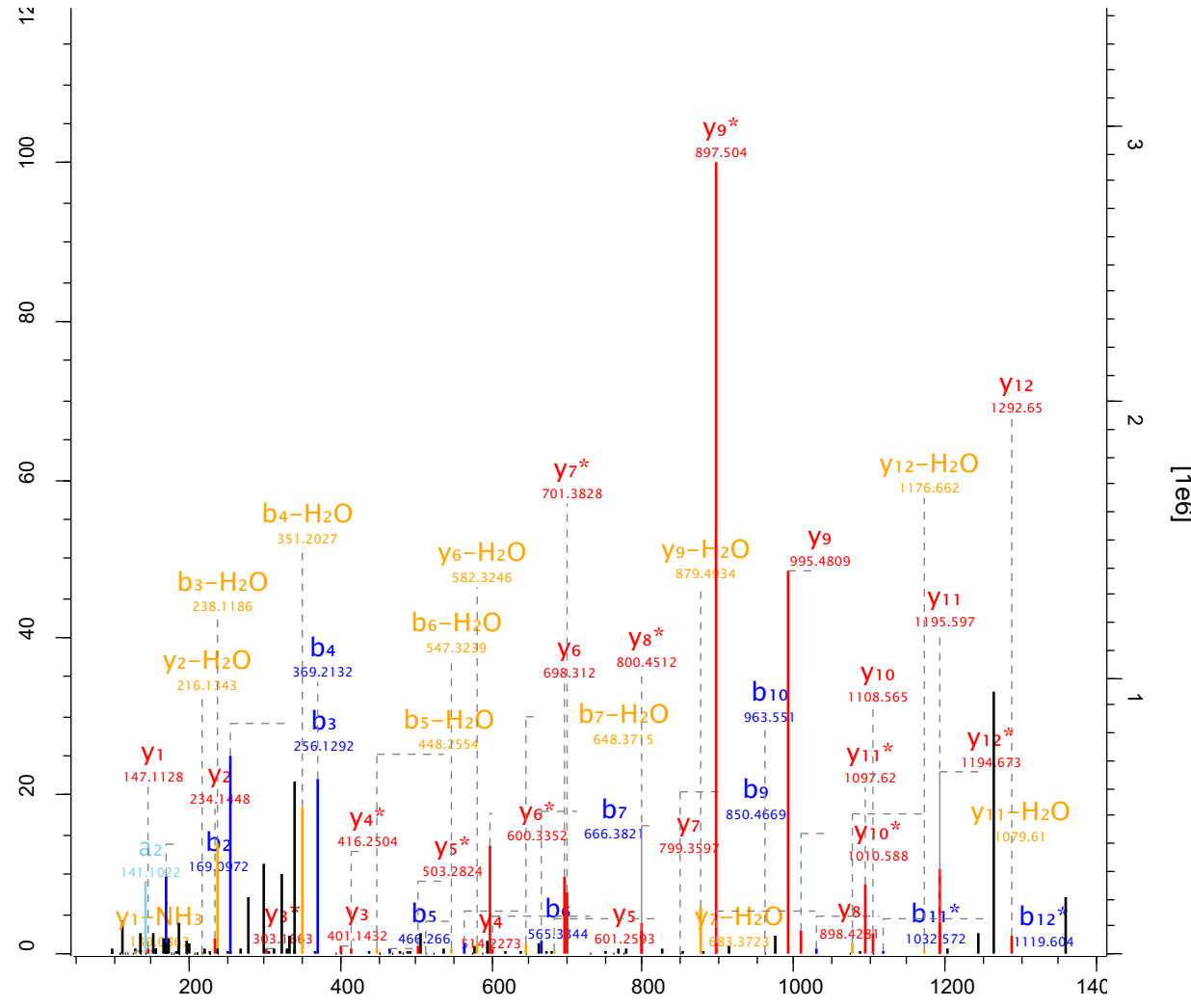


- T D S E D T S L A P S S P D N
 b₂ b₃ b₄ b₅ b₆ b₇ b₈ b₉
 y₁₃ y₁₂ y₁₁ y₄ y₃ y₂₄ y₂₂ y₂₁ y₂₀ y₁₉ y₁₈^{*} y₁₆ y₁₄
 R G P T A Y Y V Q S P S R -

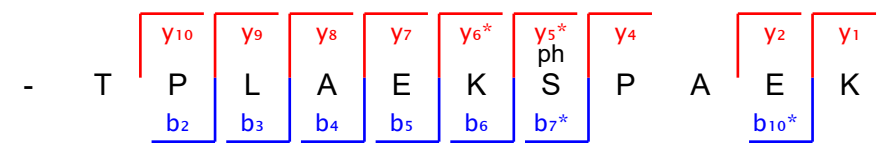
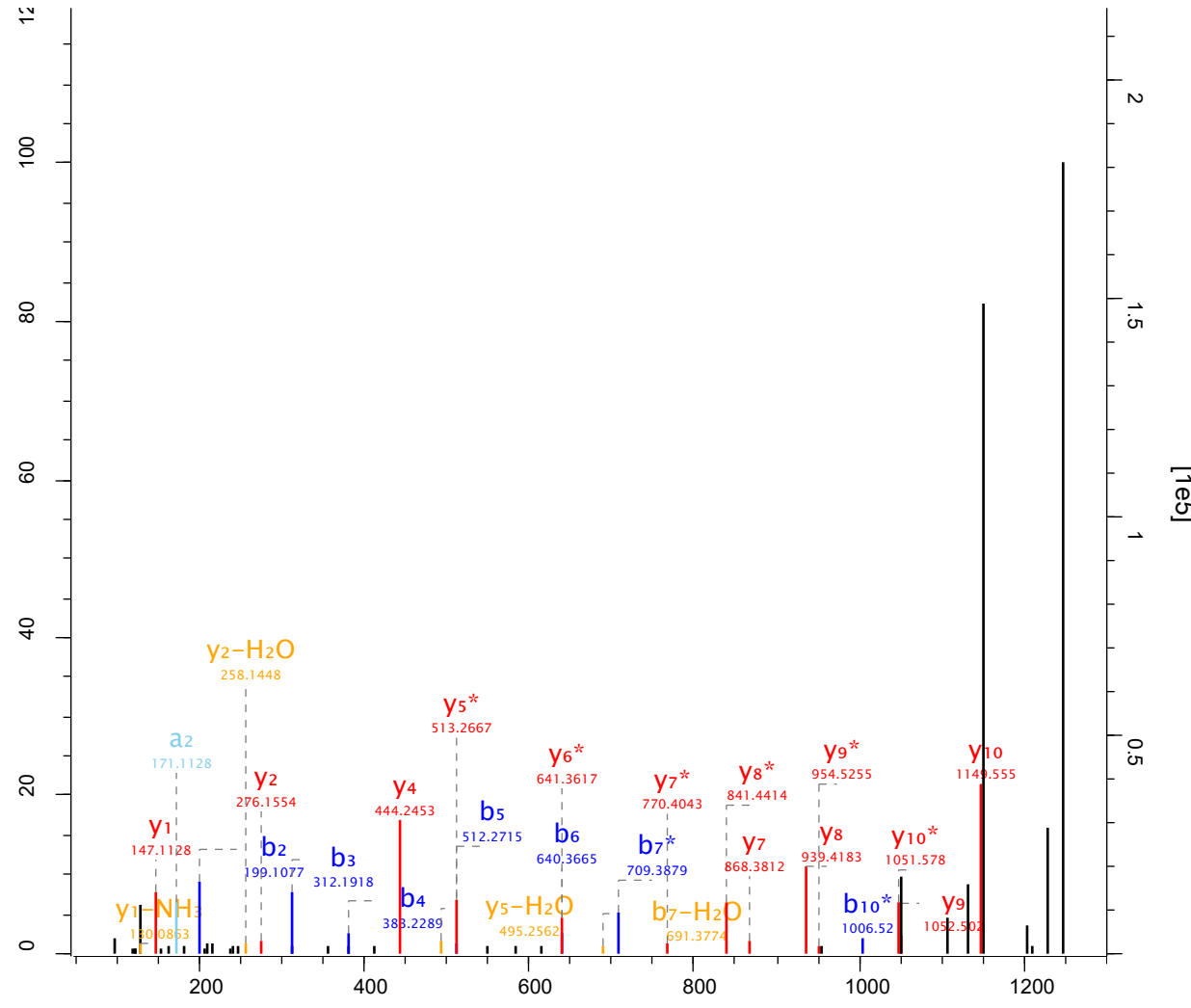
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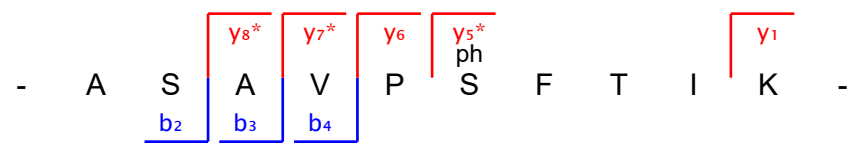
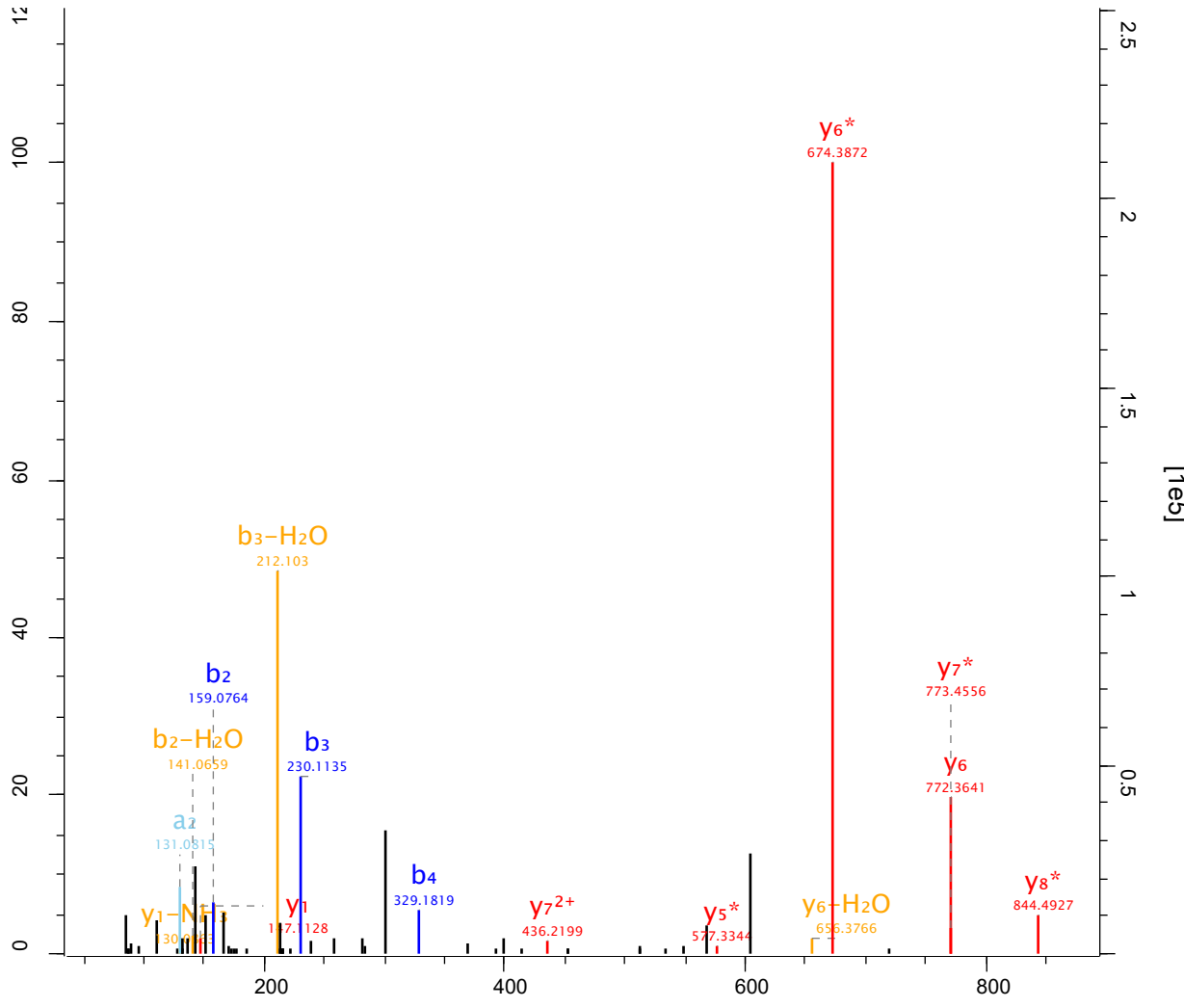
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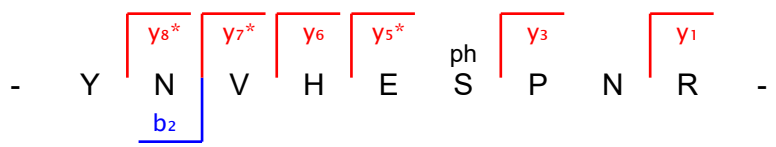
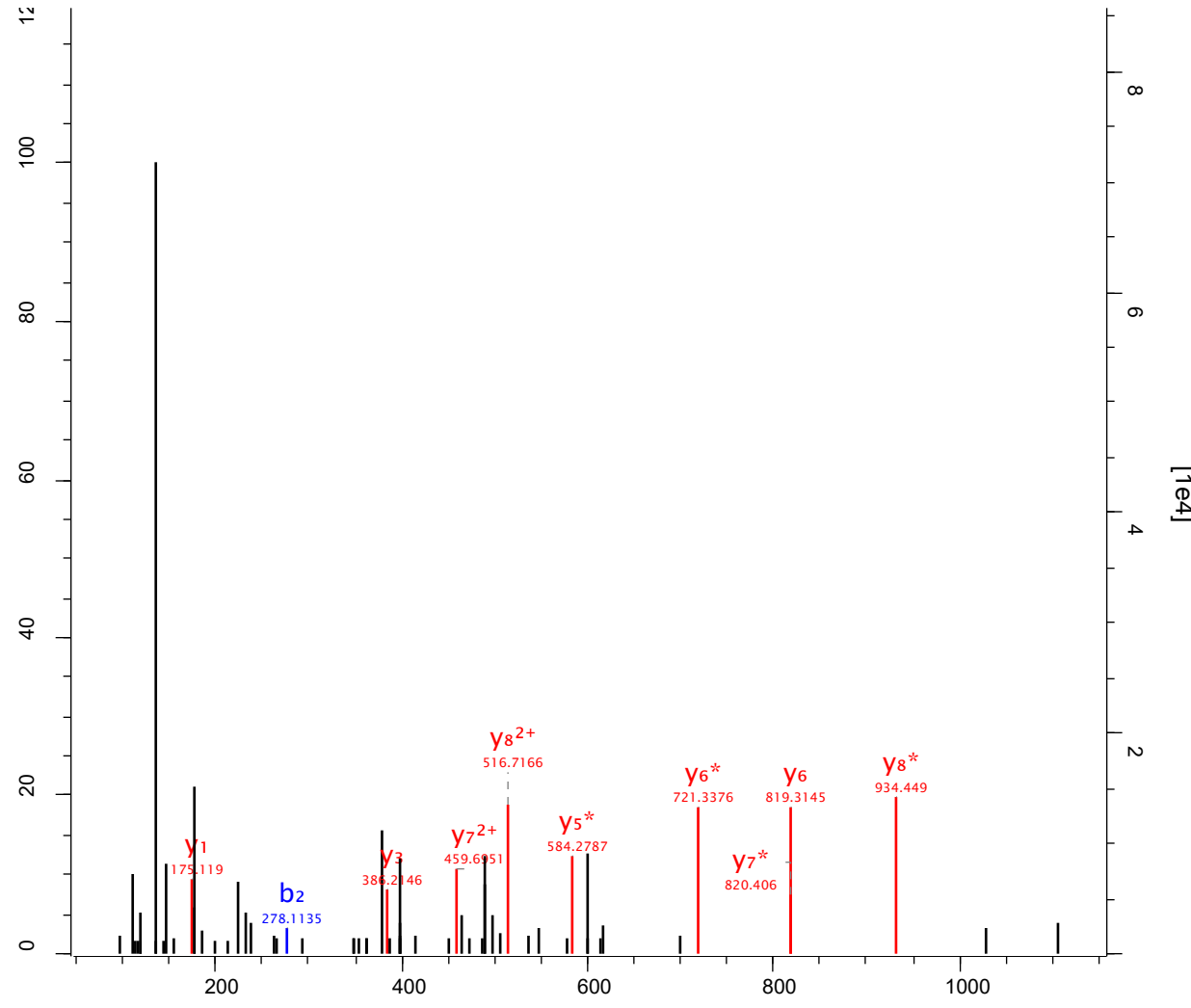
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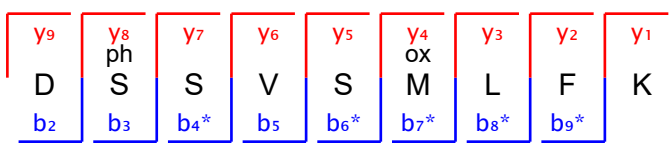
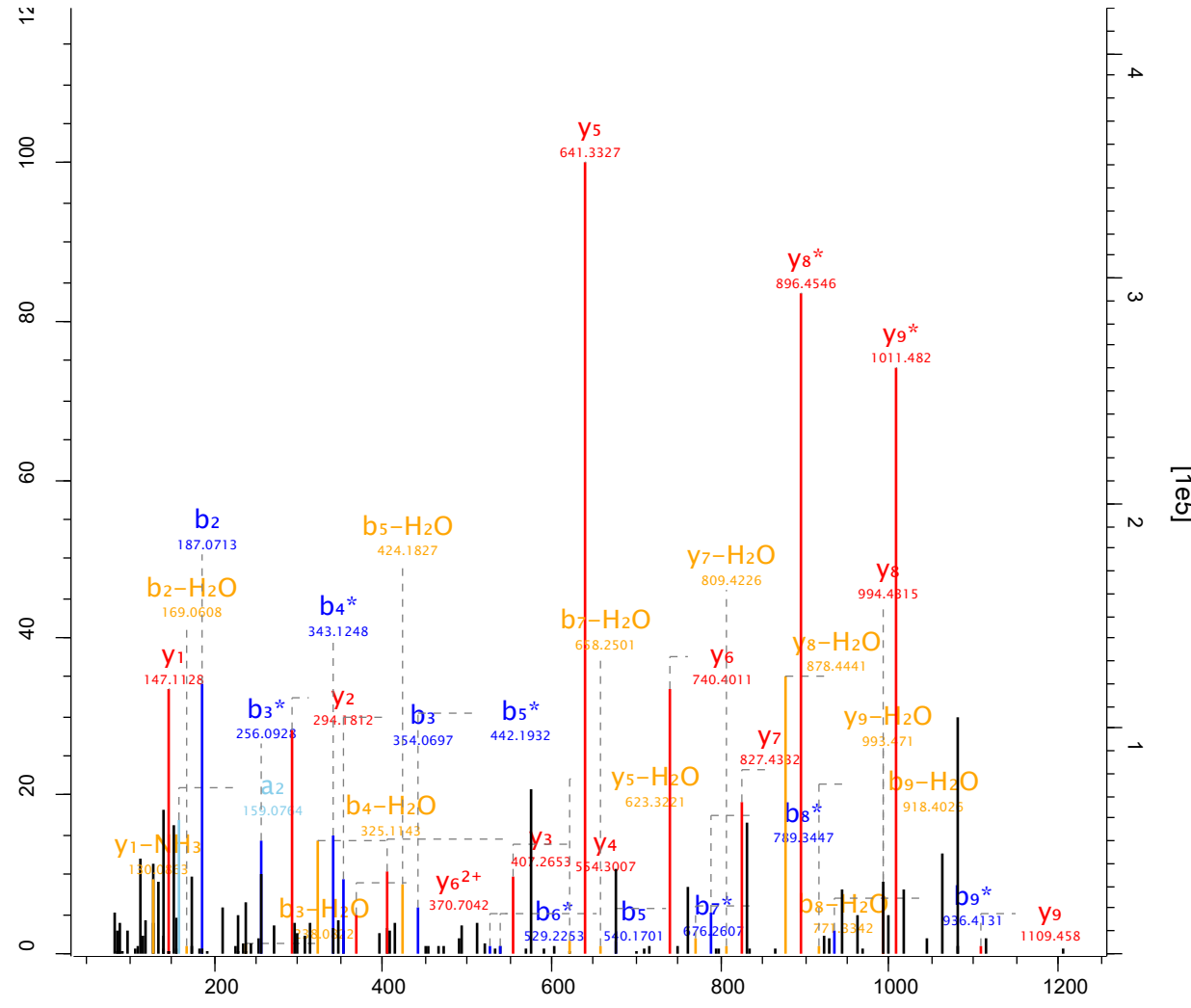
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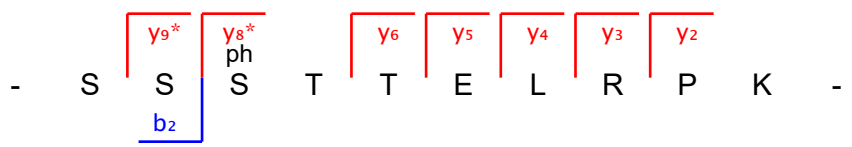
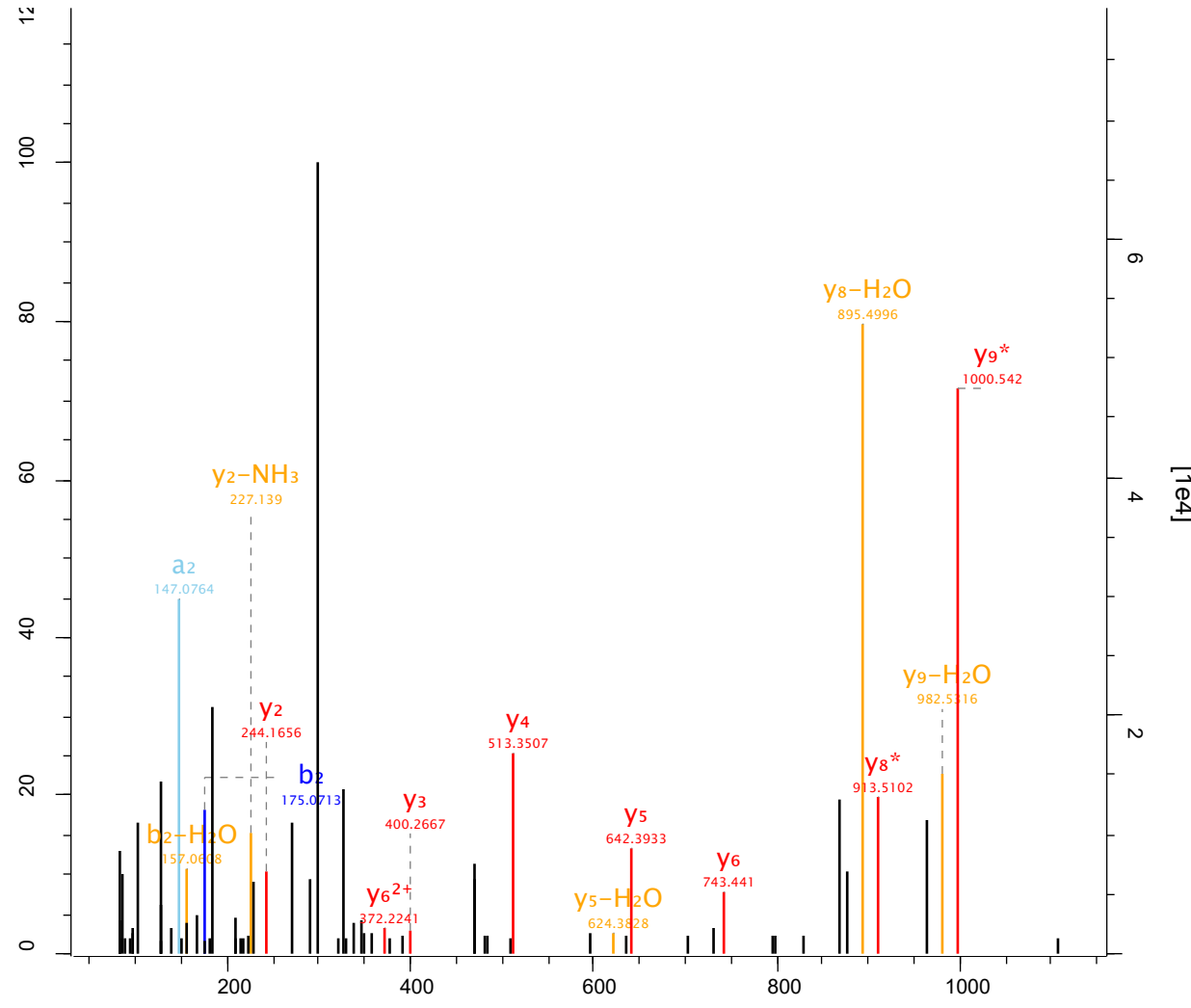
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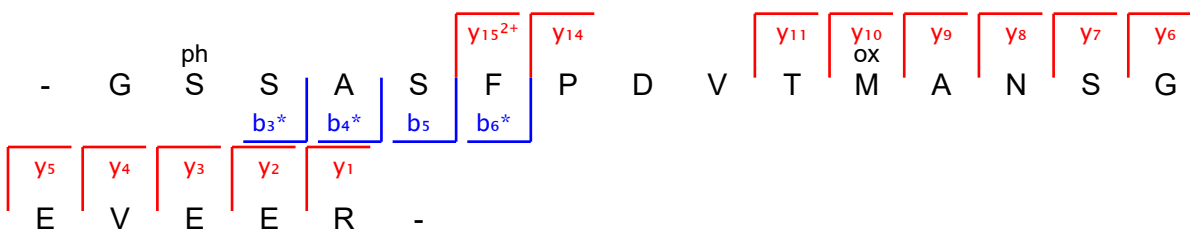
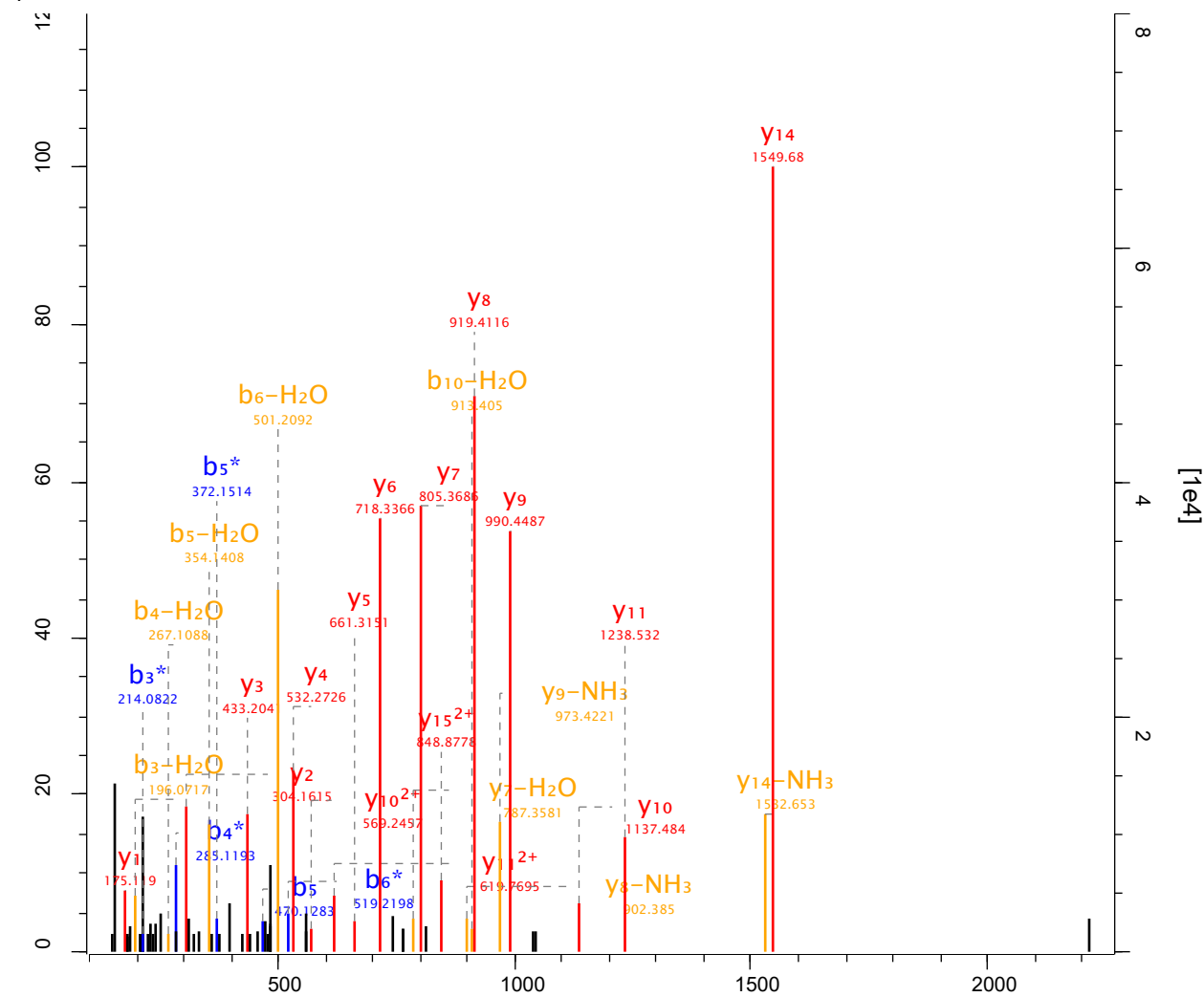
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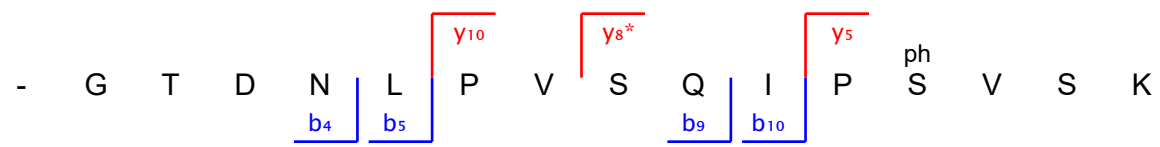
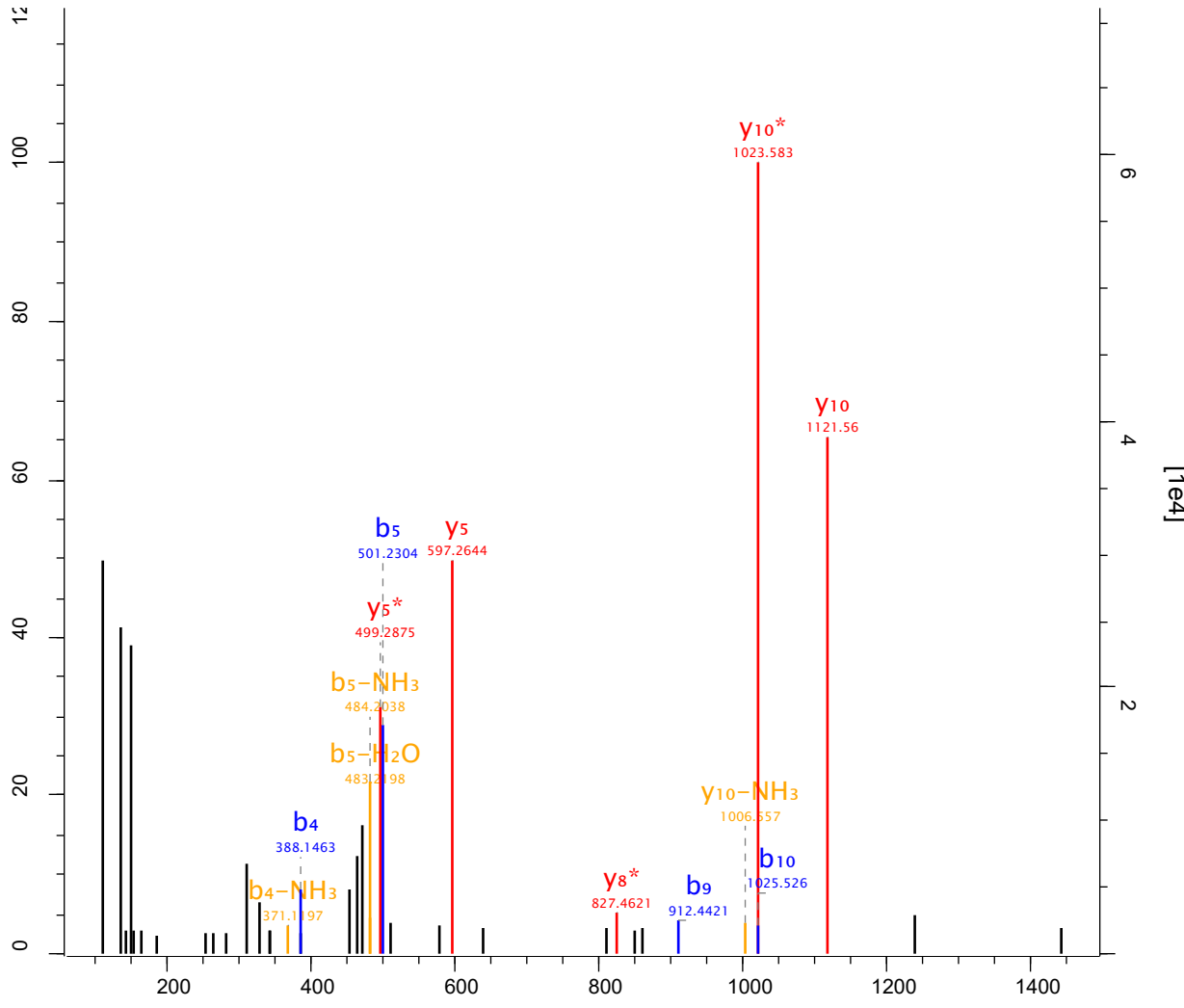
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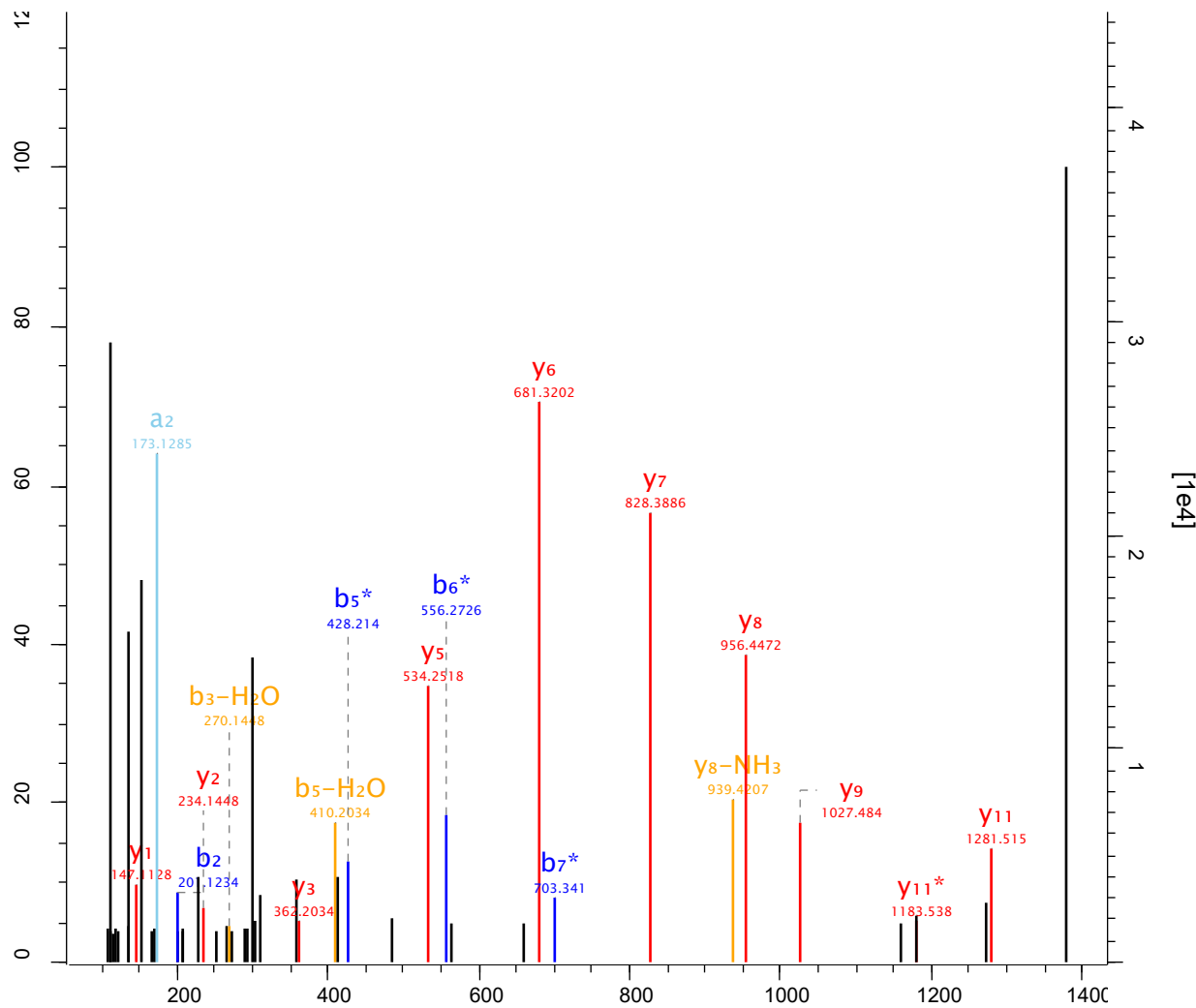
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Raw file Scan Method Score m/z
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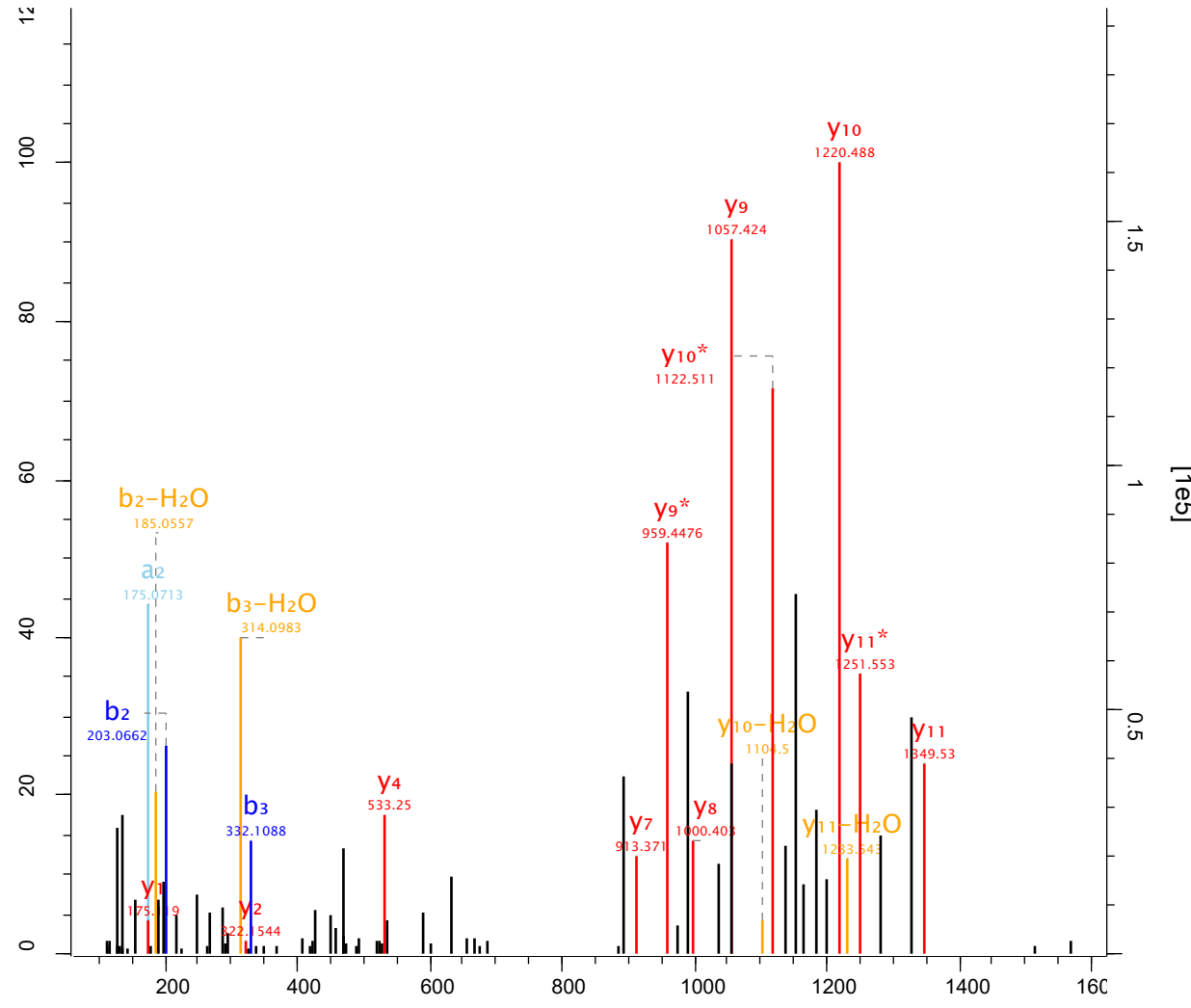
Raw file Scan Method Score m/z
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- S I S ph S A Q F F G D Q S K -

b₂
y₁₁
b₅^{*}
y₉
b₆^{*}
y₈
b₇^{*}
y₇
y₆
y₅
y₃
y₂
y₁

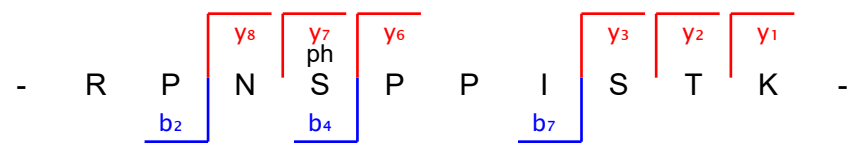
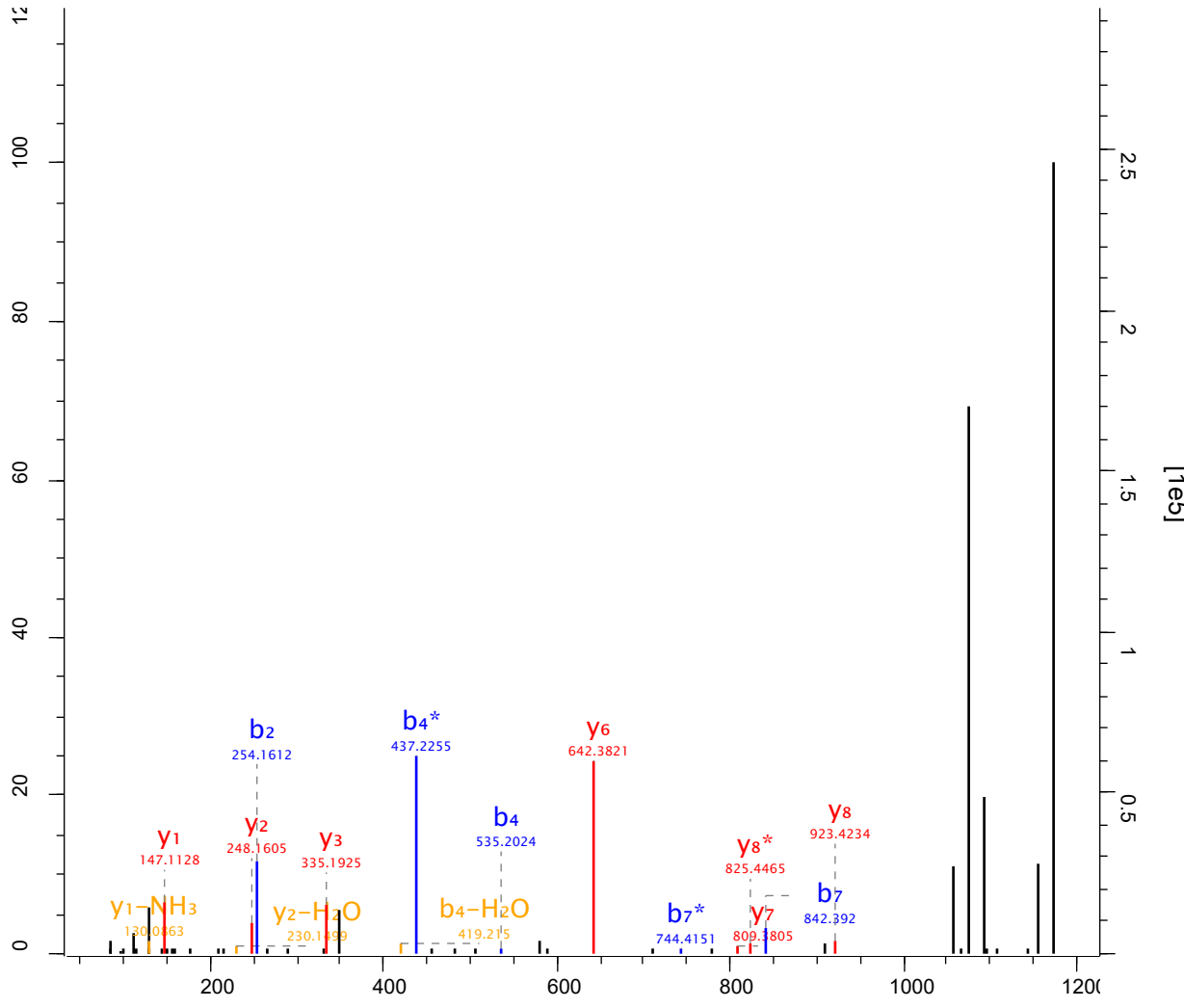
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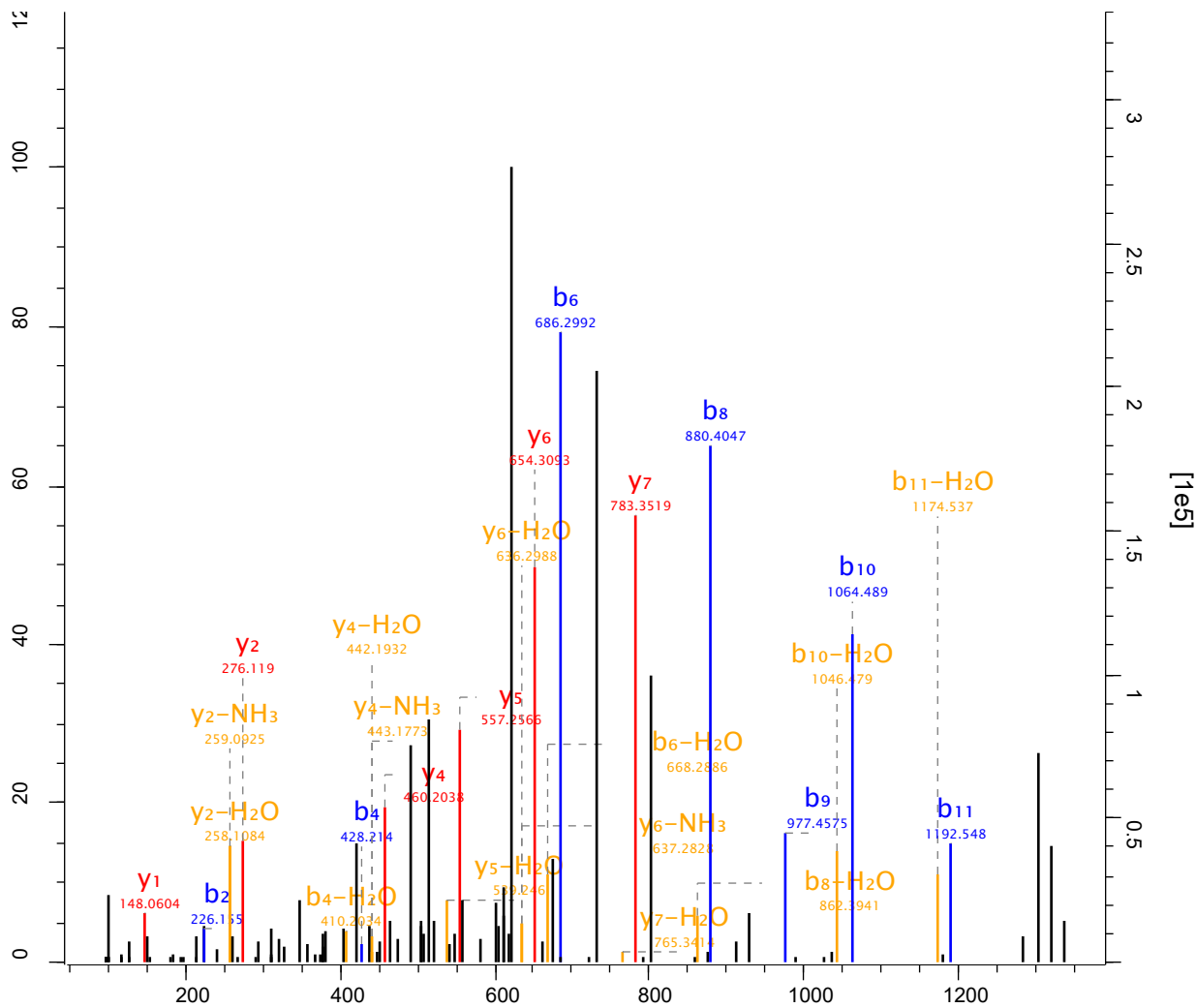
- D S E Y G S G R S P N M R -

b₂
b₃
y₁₁
y₁₀
y₉
y₈
y₇
y₄
y₂OX
y₁

Raw file	Scan	Method	Score	m/z
sys_02_2	2798	FTMS; HCD	70.44	588.79



Raw file	Scan	Method	Score	m/z
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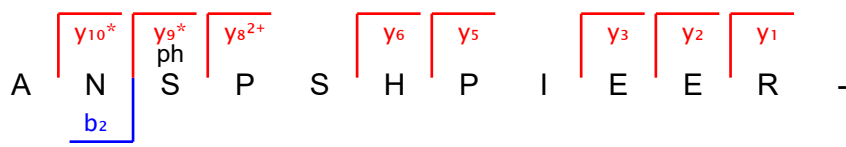
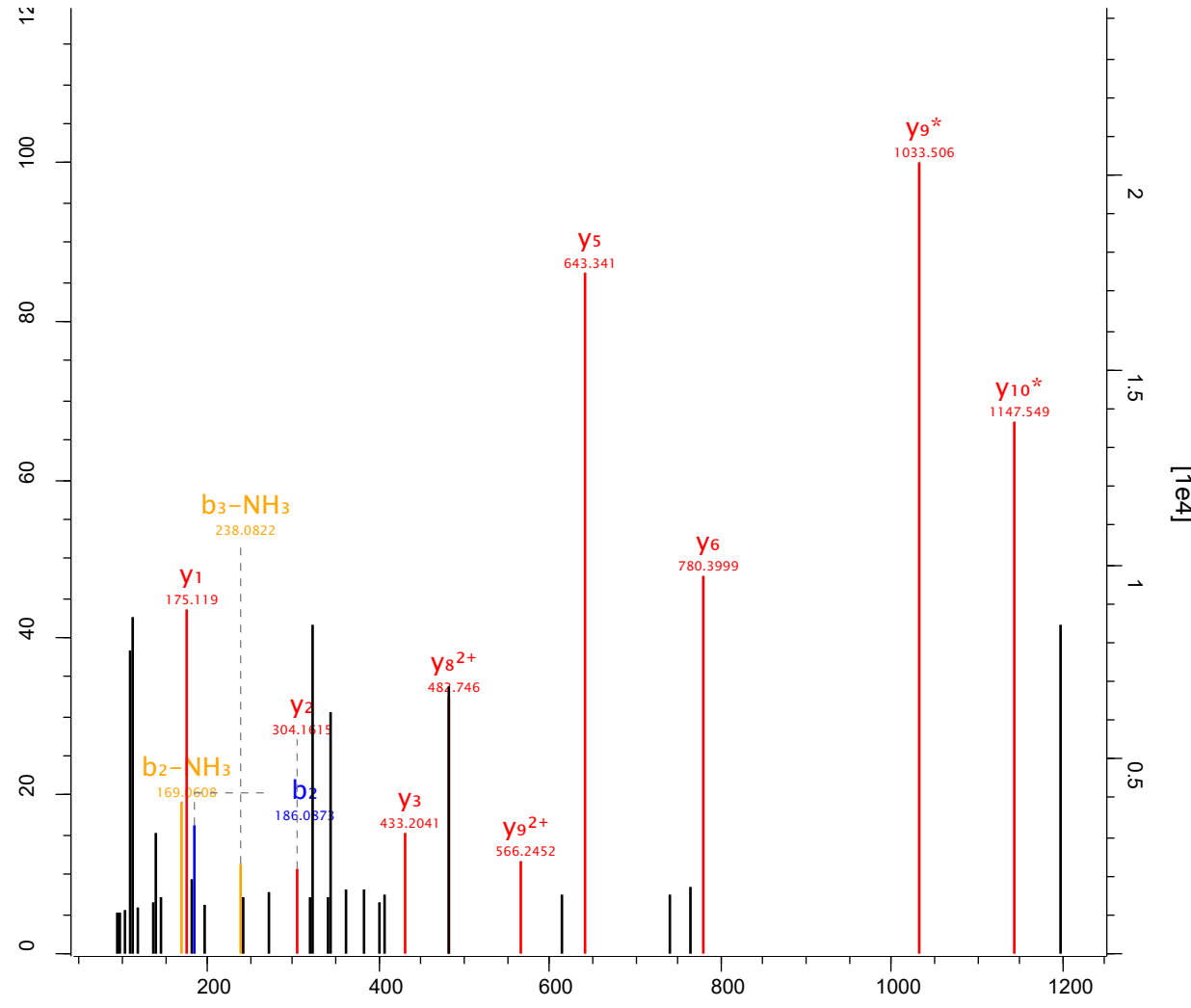


- K P S D E E P P S Q E -

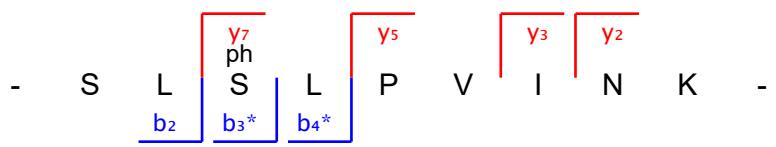
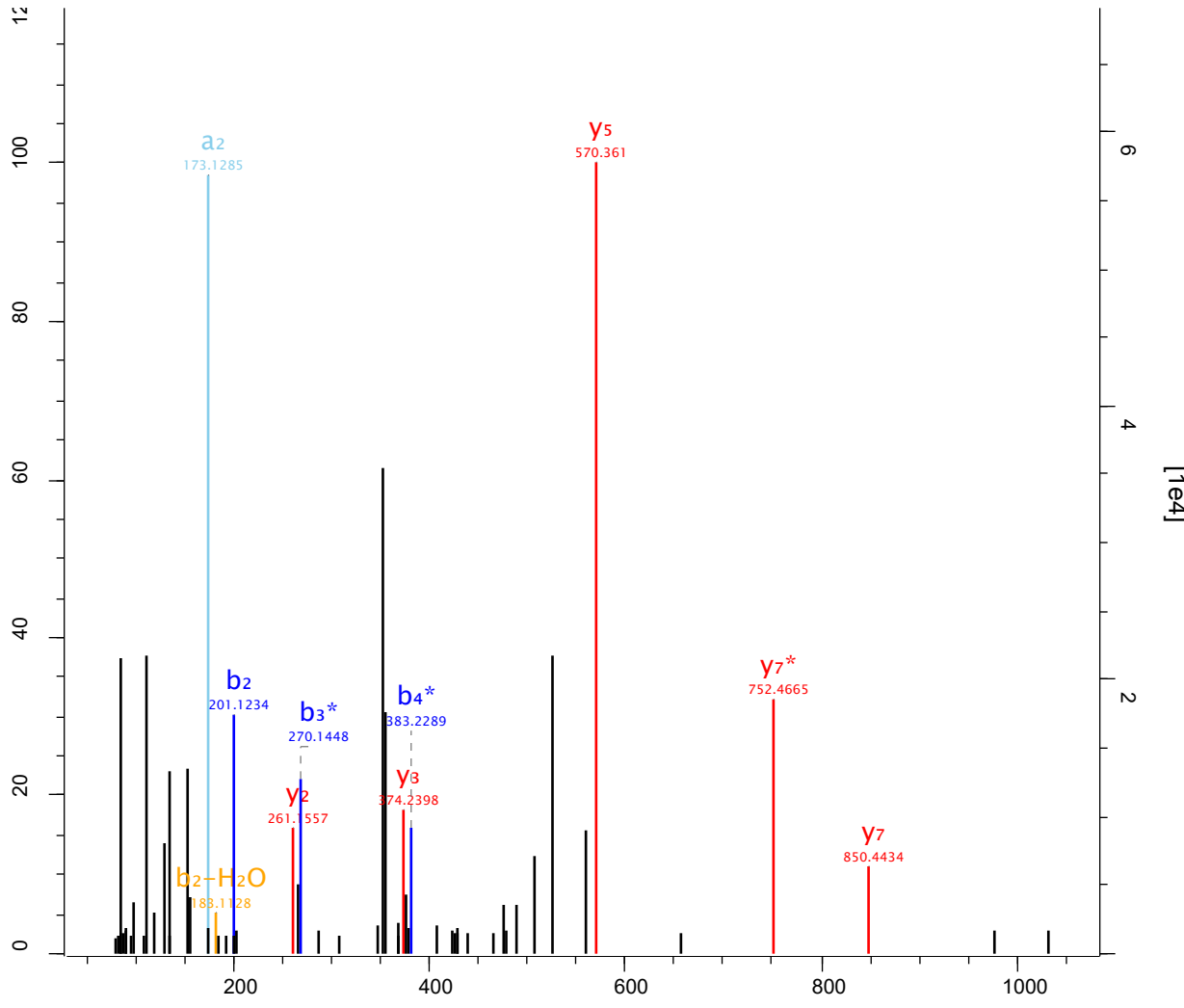
b₂
b₄
b₆
b₈
b₉
b₁₀
b₁₁

y₇
y₆
y₅
y₄
y₂
y₁

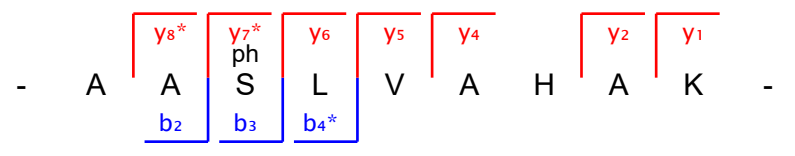
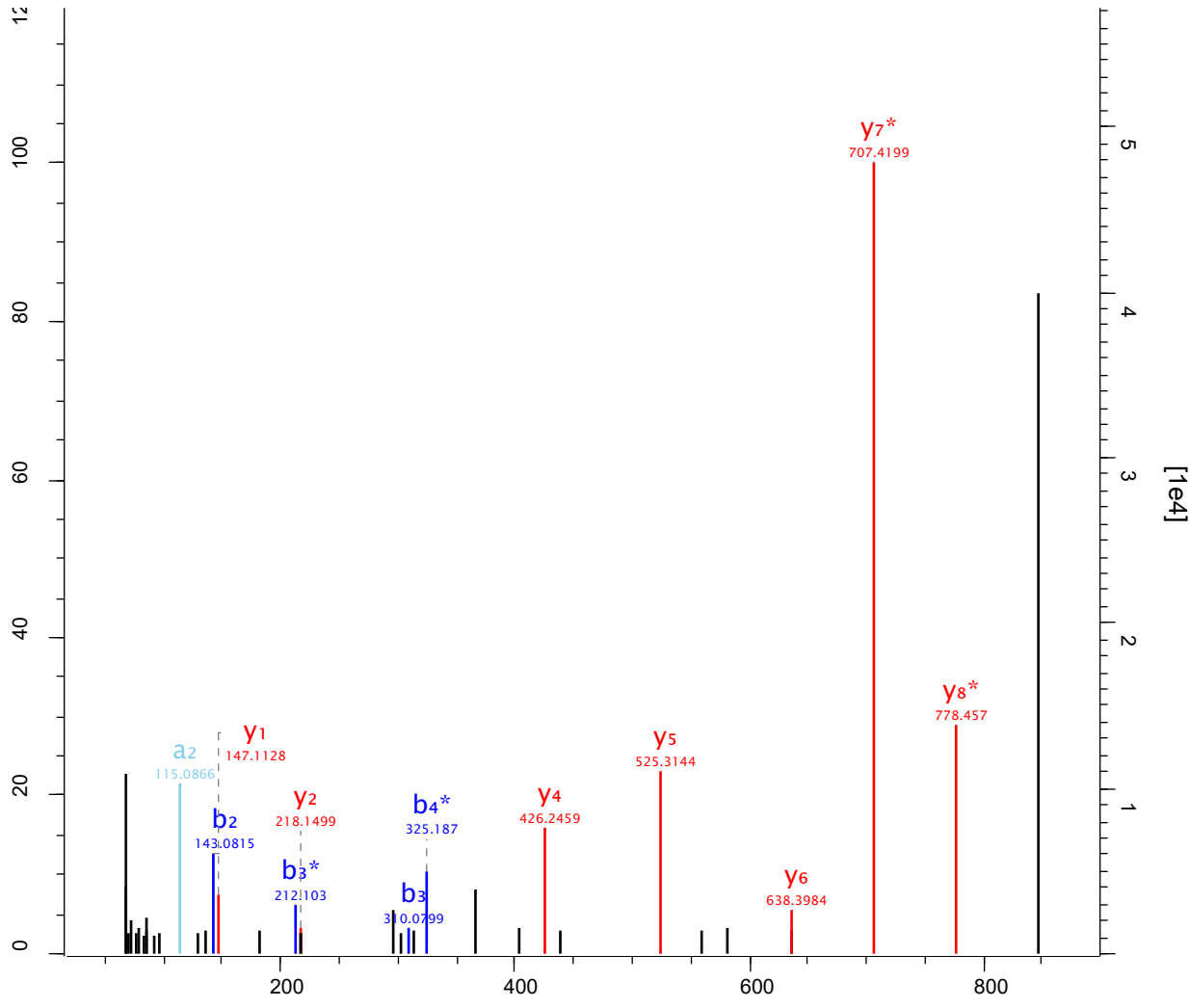
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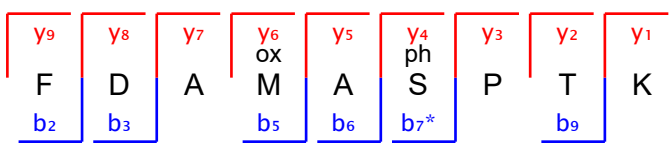
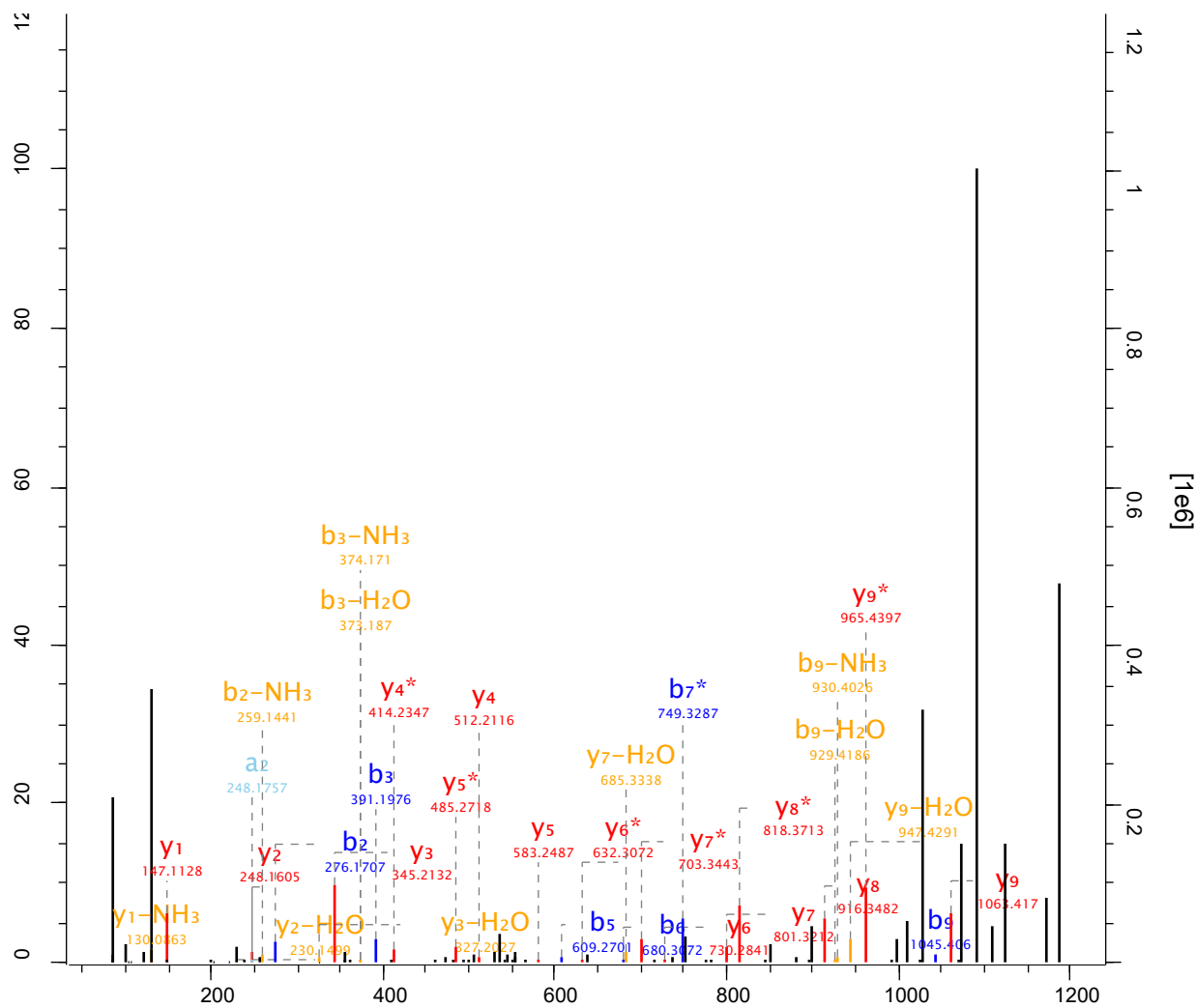
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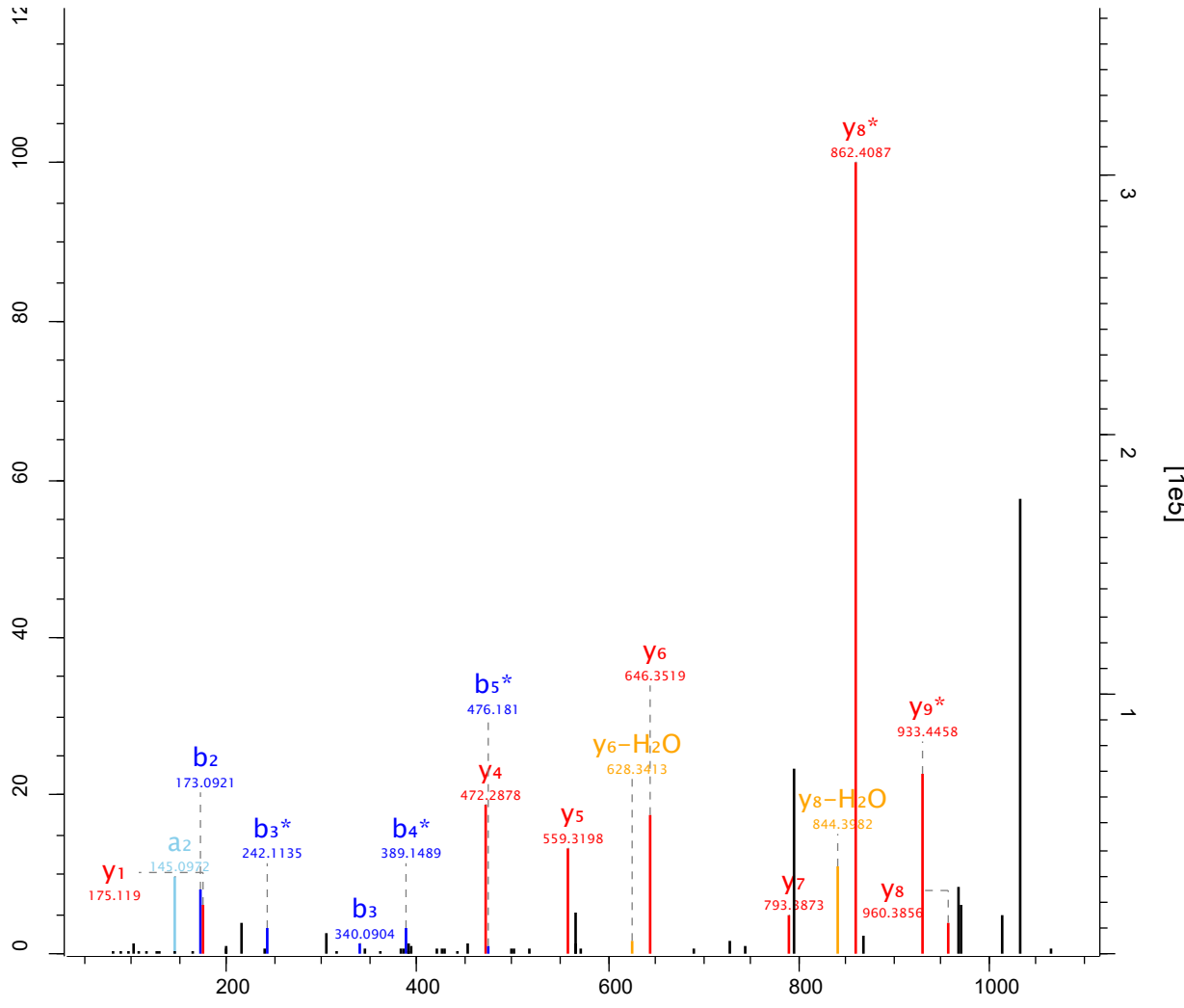
Raw file	Scan	Method	Score	m/z
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Raw file Scan Method Score m/z
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Raw file	Scan	Method	Score	m/z
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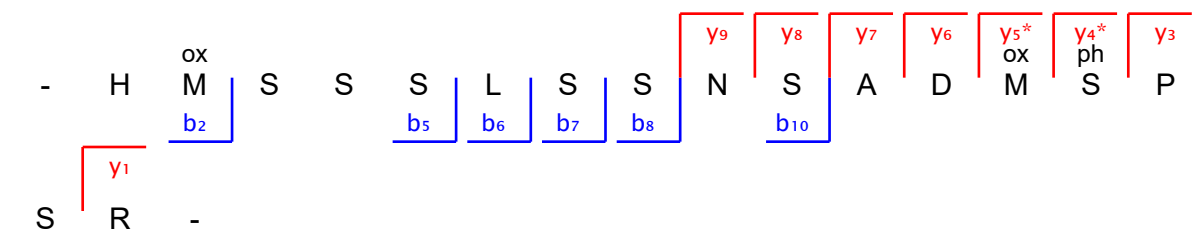
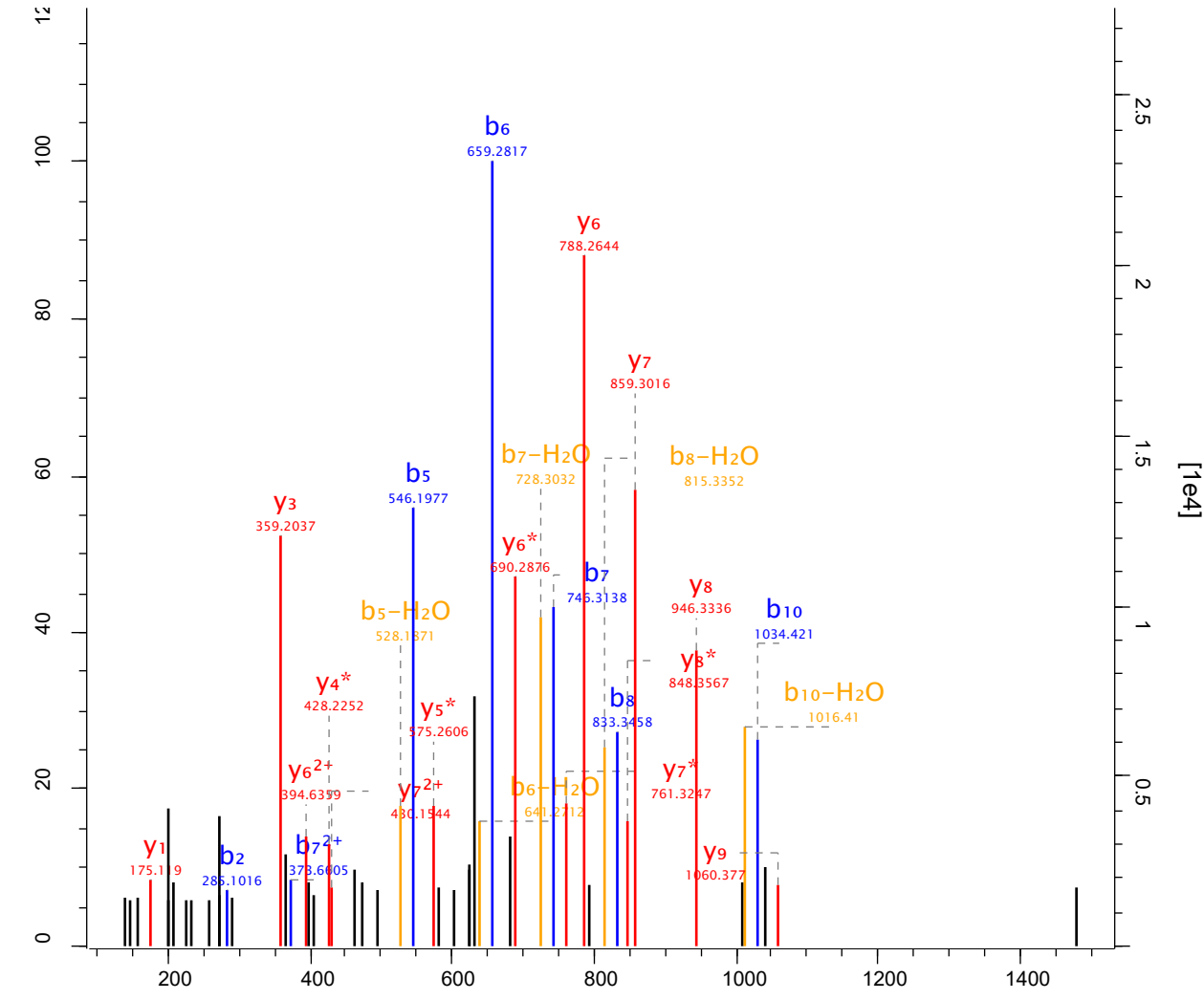


- T A S M S S P T V R -

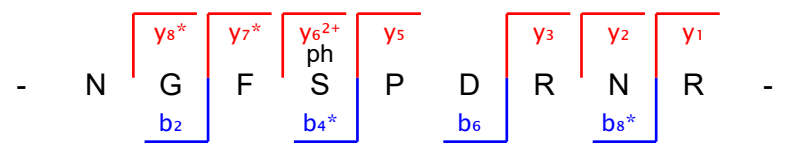
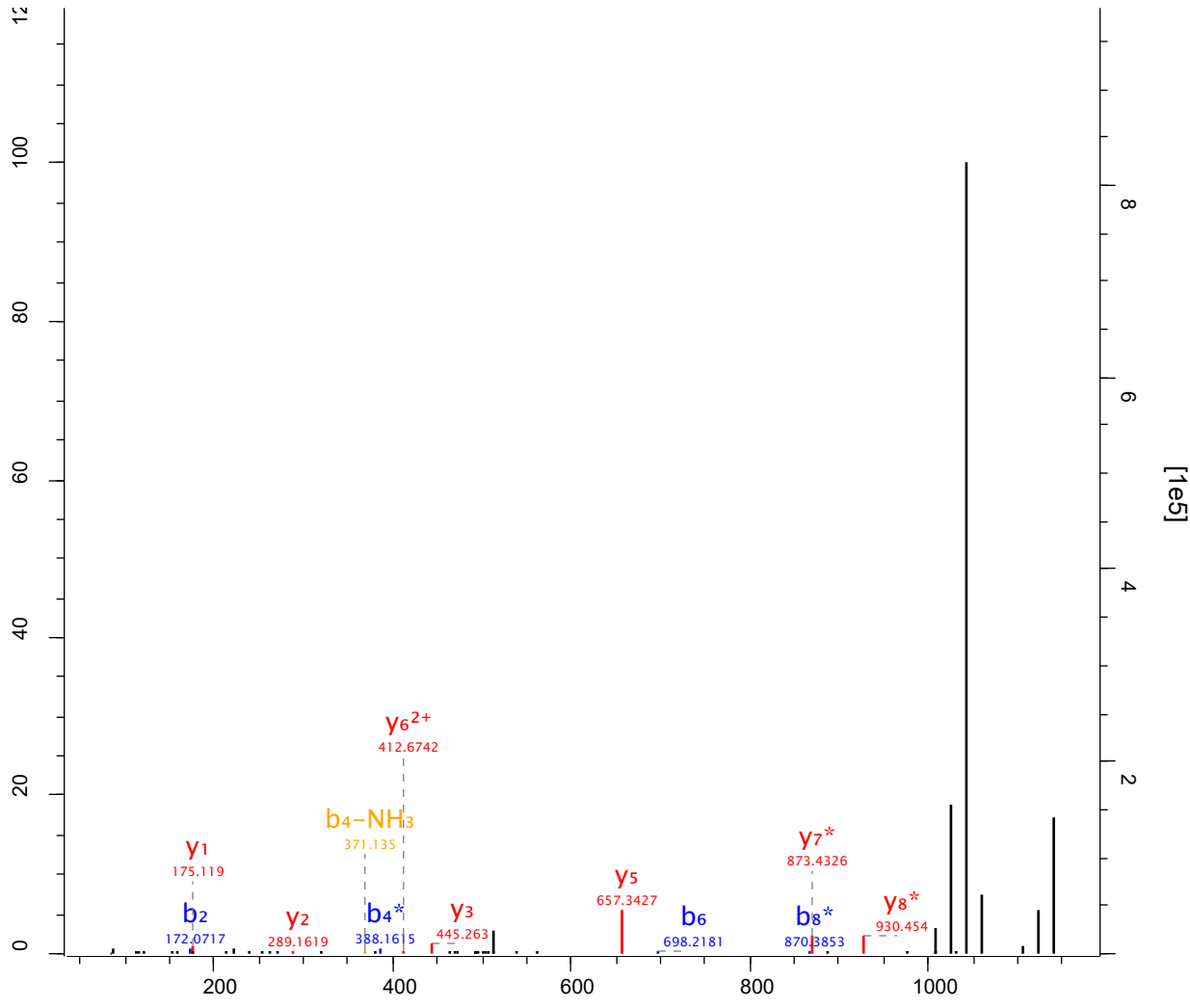
y9*
y8
ph
y7
ox
y6
y5
y4
y1

b2
b3
b4*
b5*

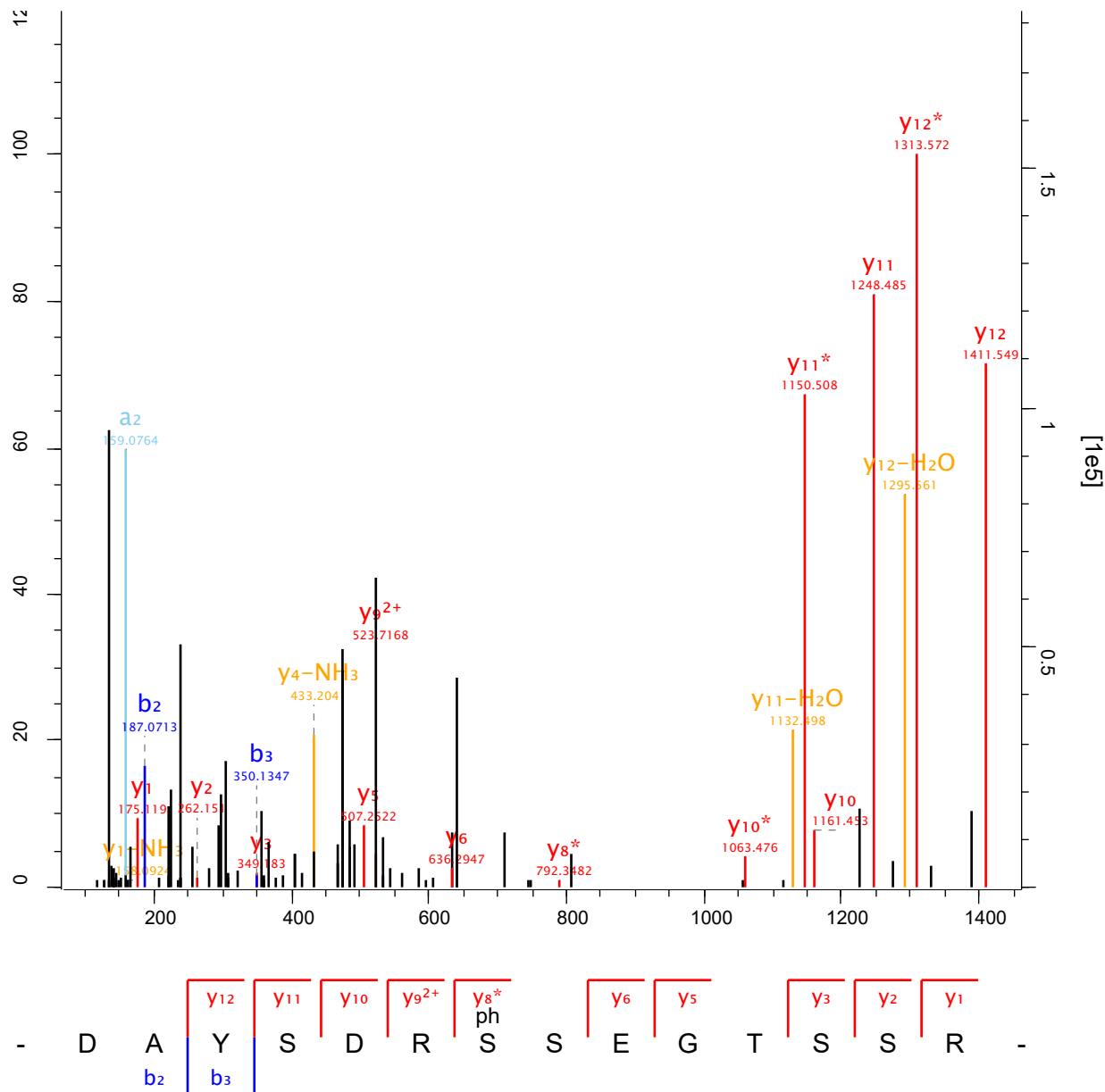
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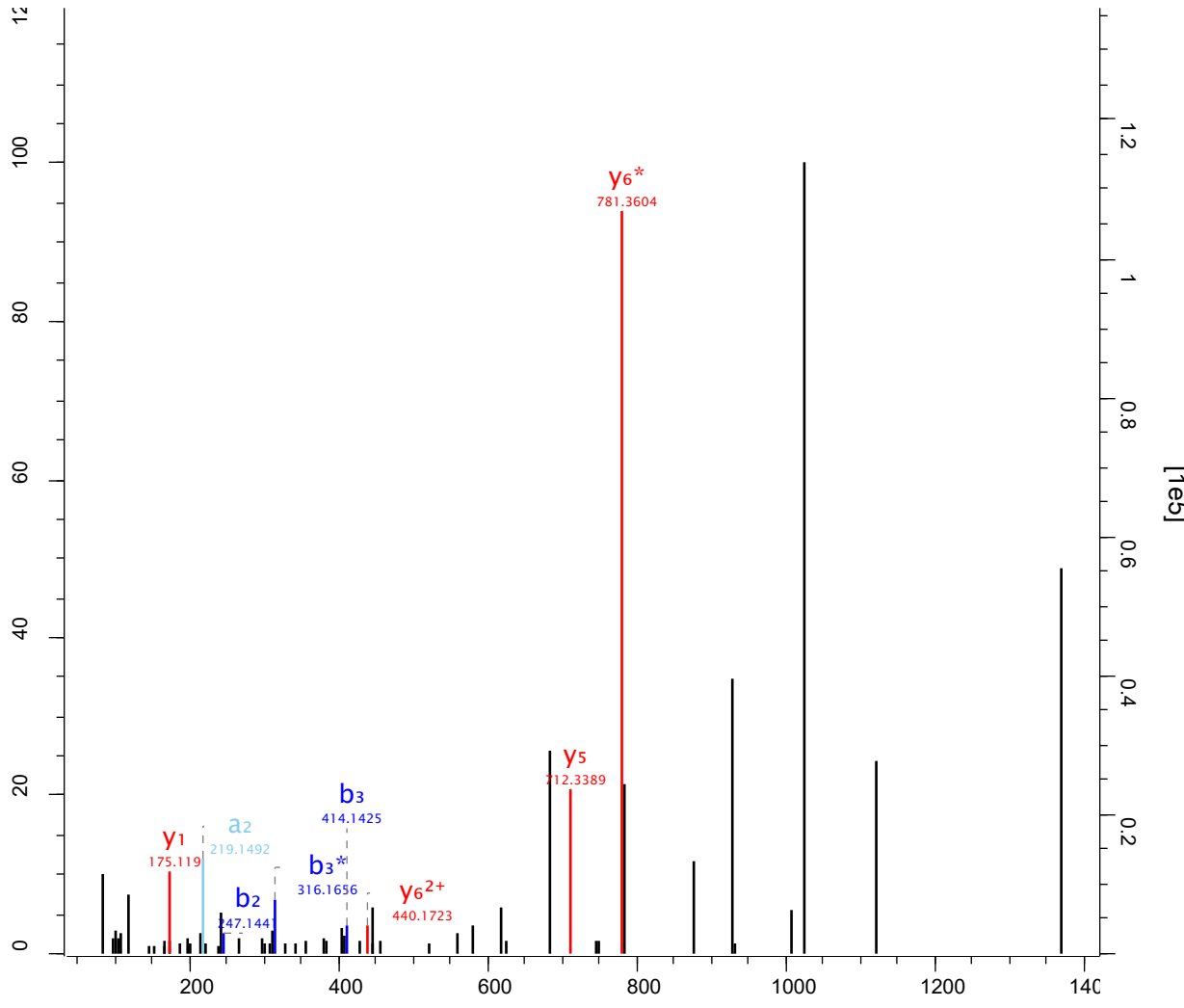
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Raw file Scan Method Score m/z
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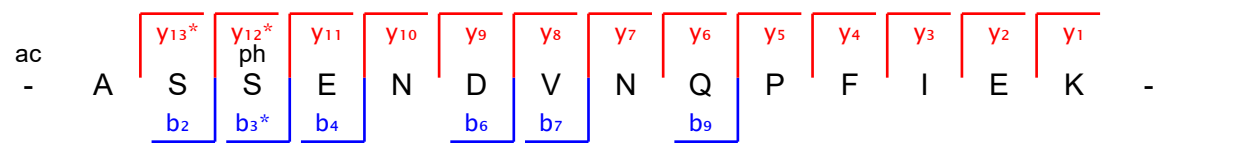
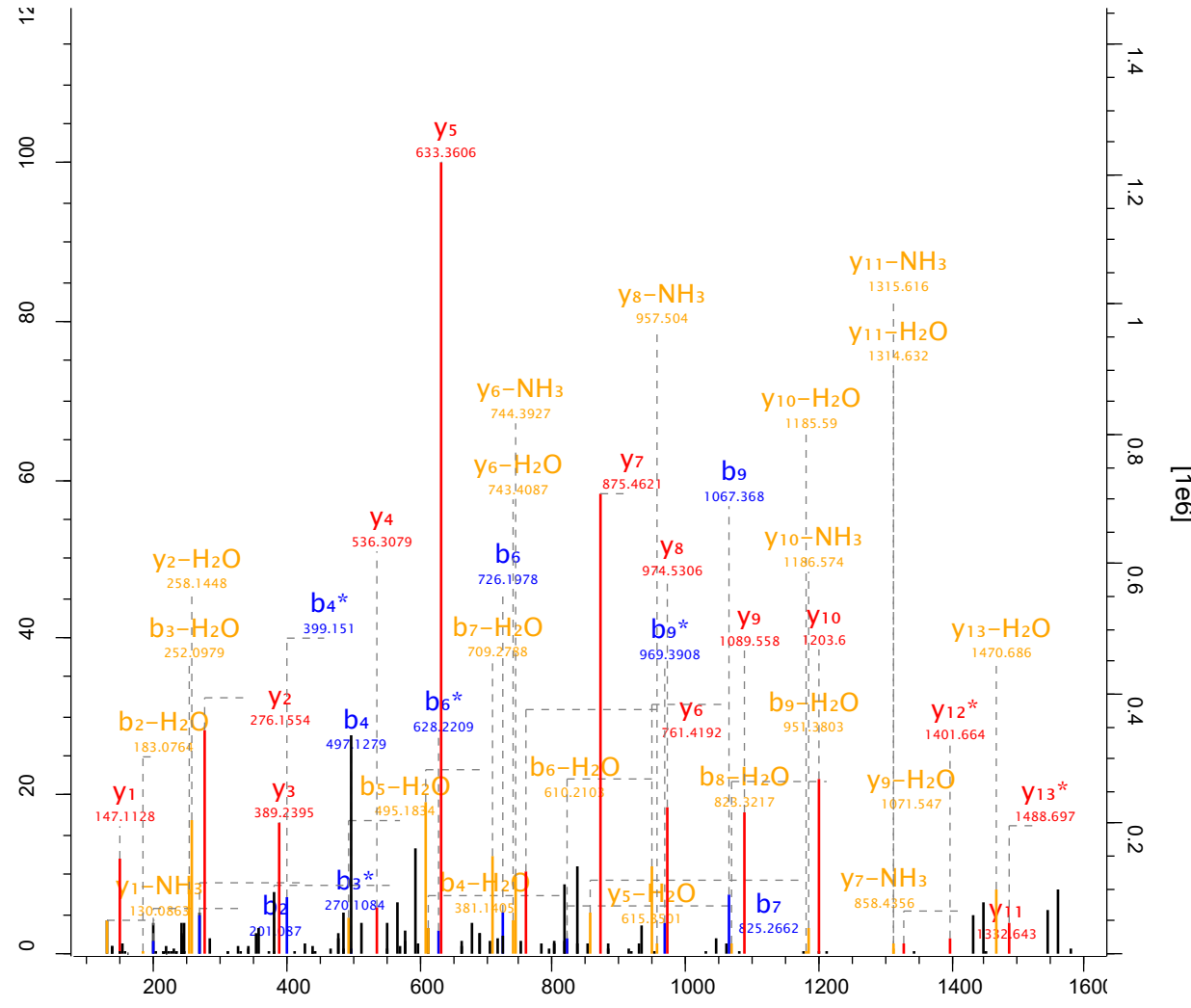
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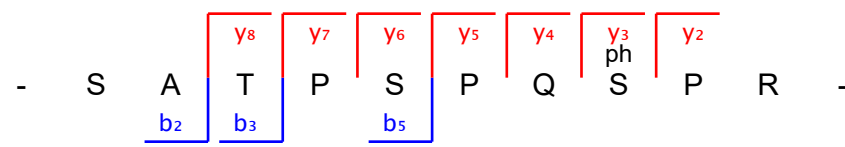
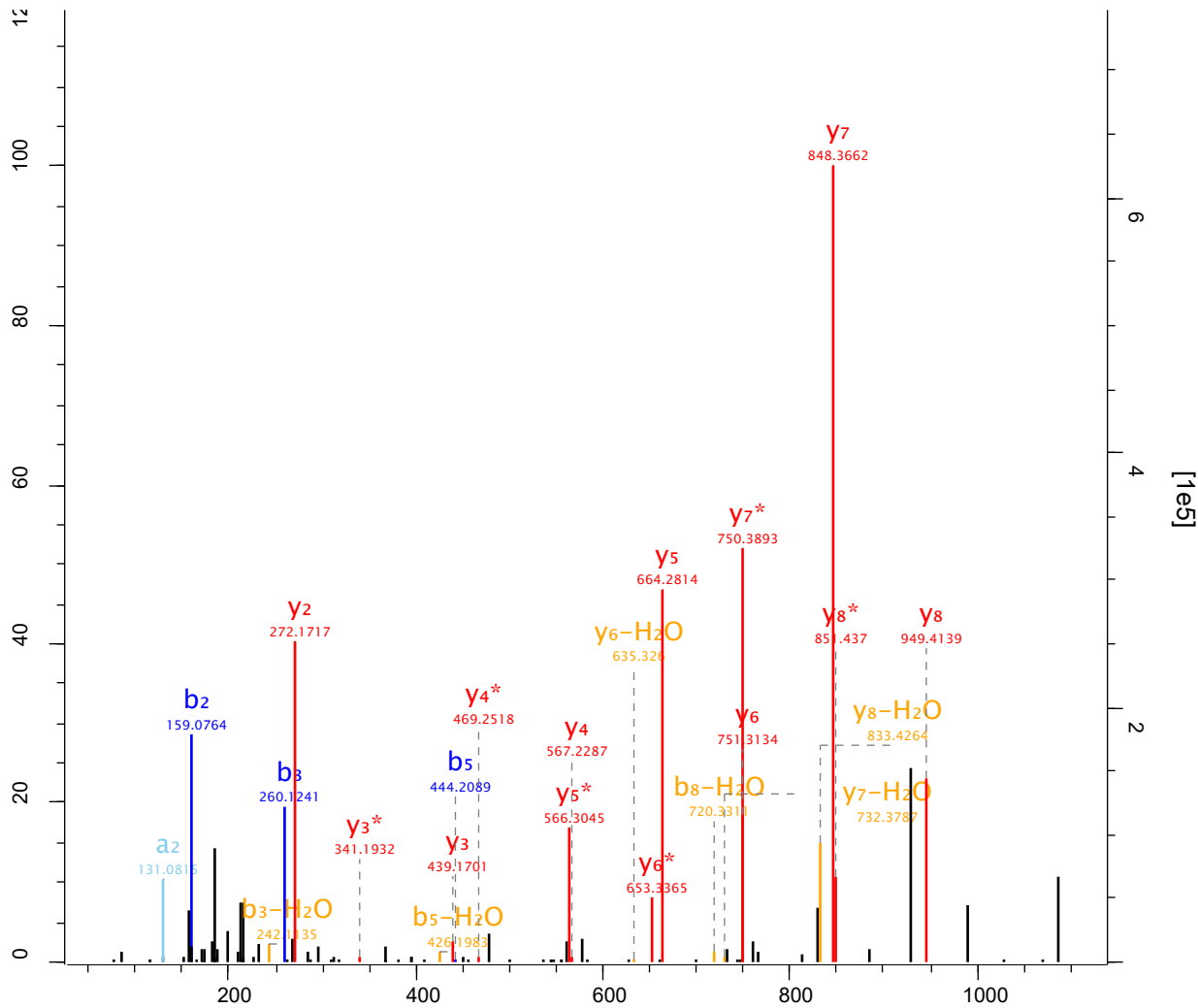
- V F S I K S E R -

Annotations: y_6^* (above S), y_5 (above I), y_1 (above R), b_2 (below F), b_3 (below S).

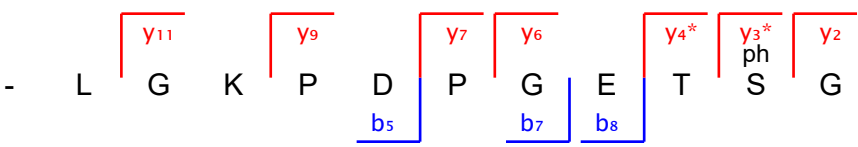
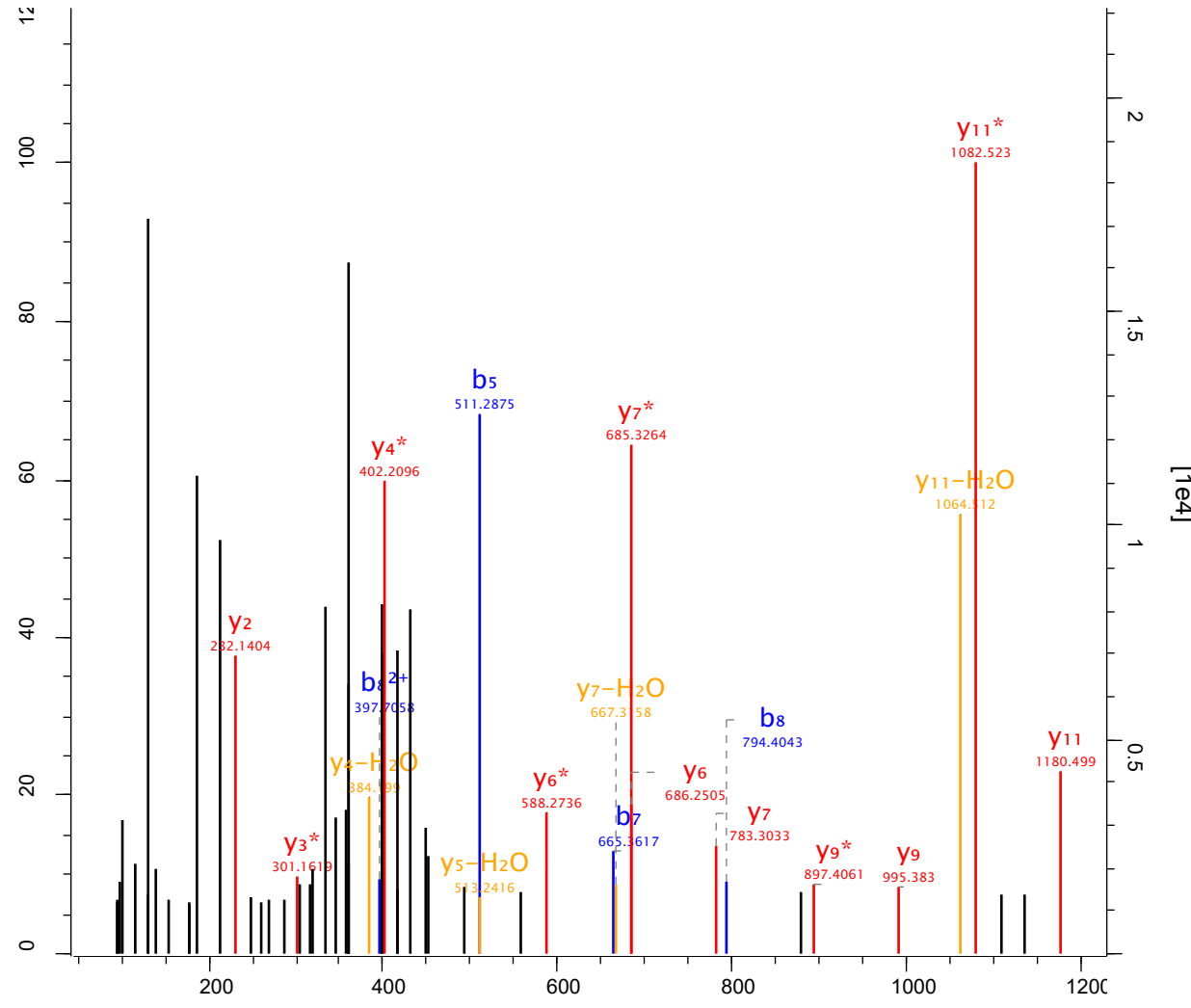
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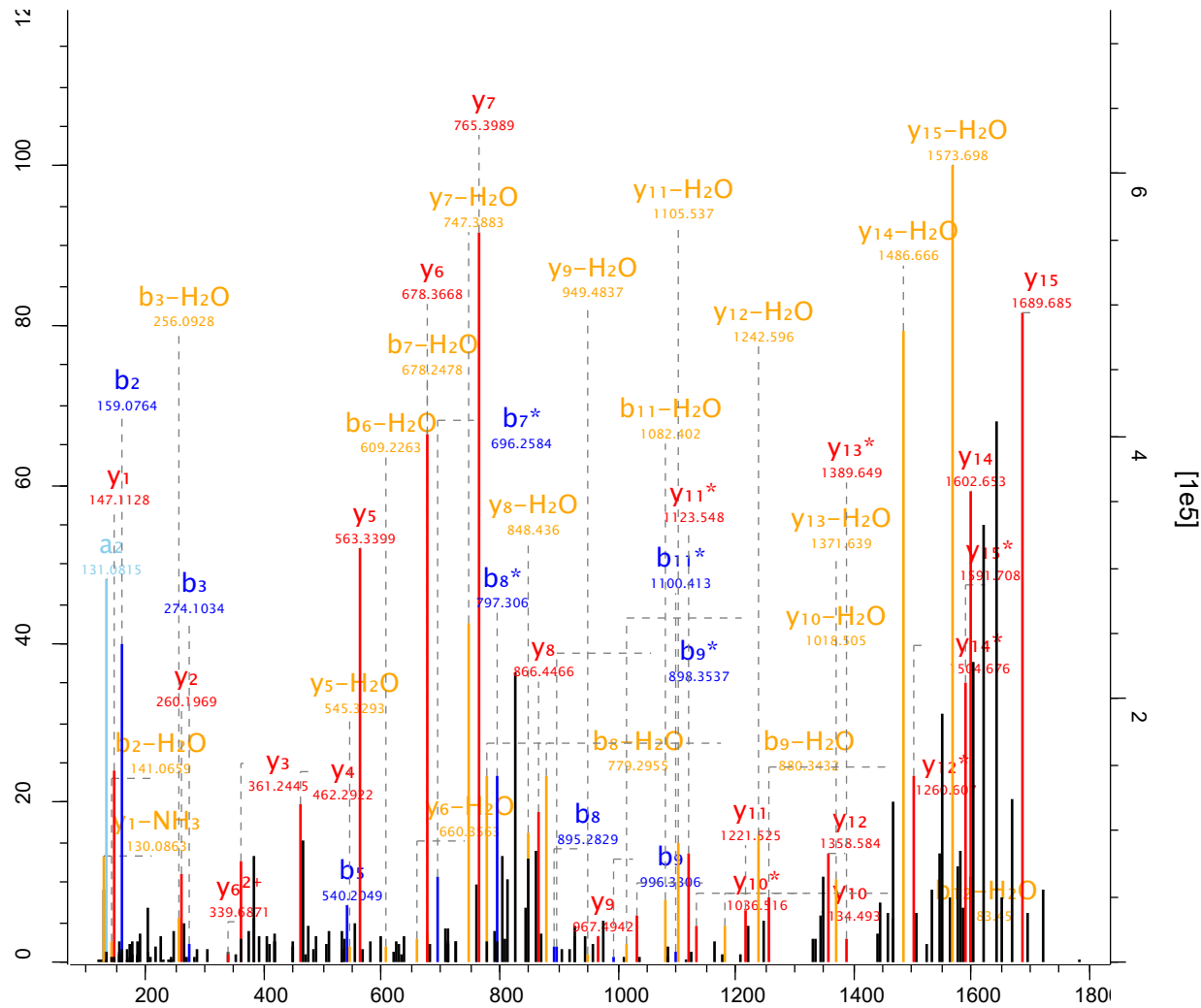
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Raw file Scan Method Score m/z
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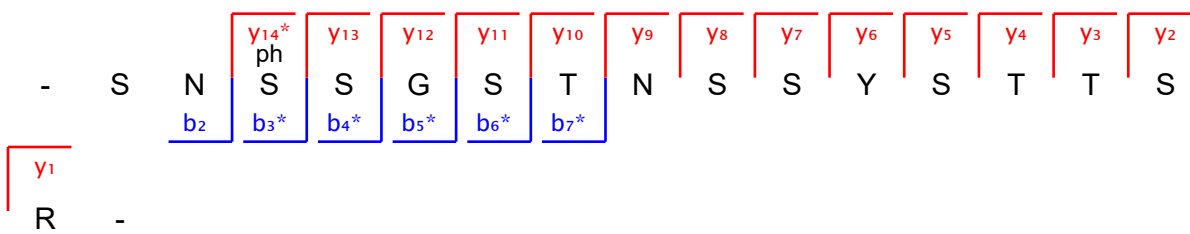
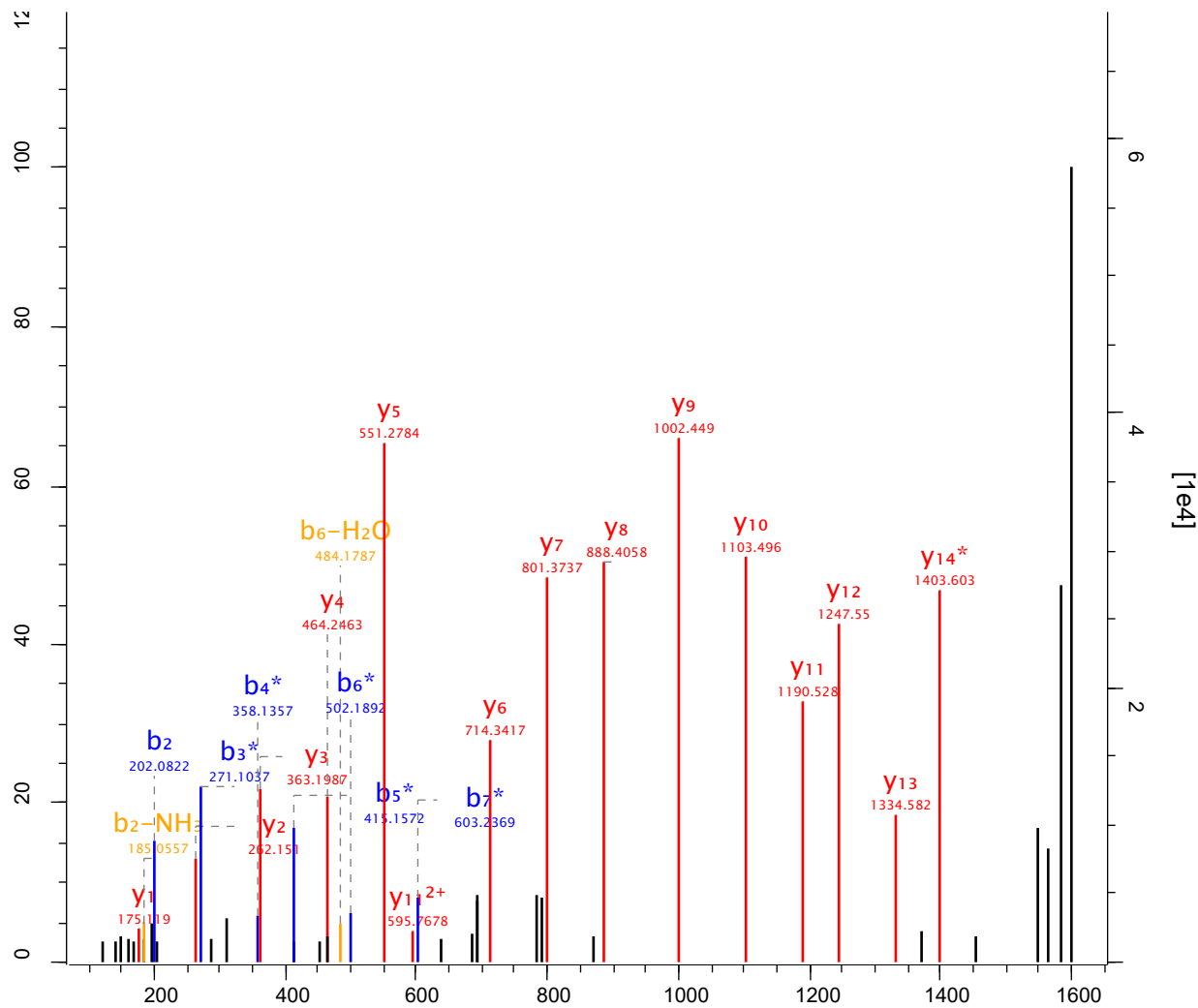
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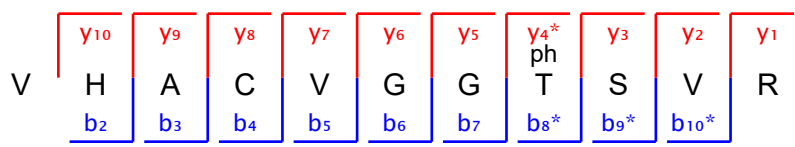
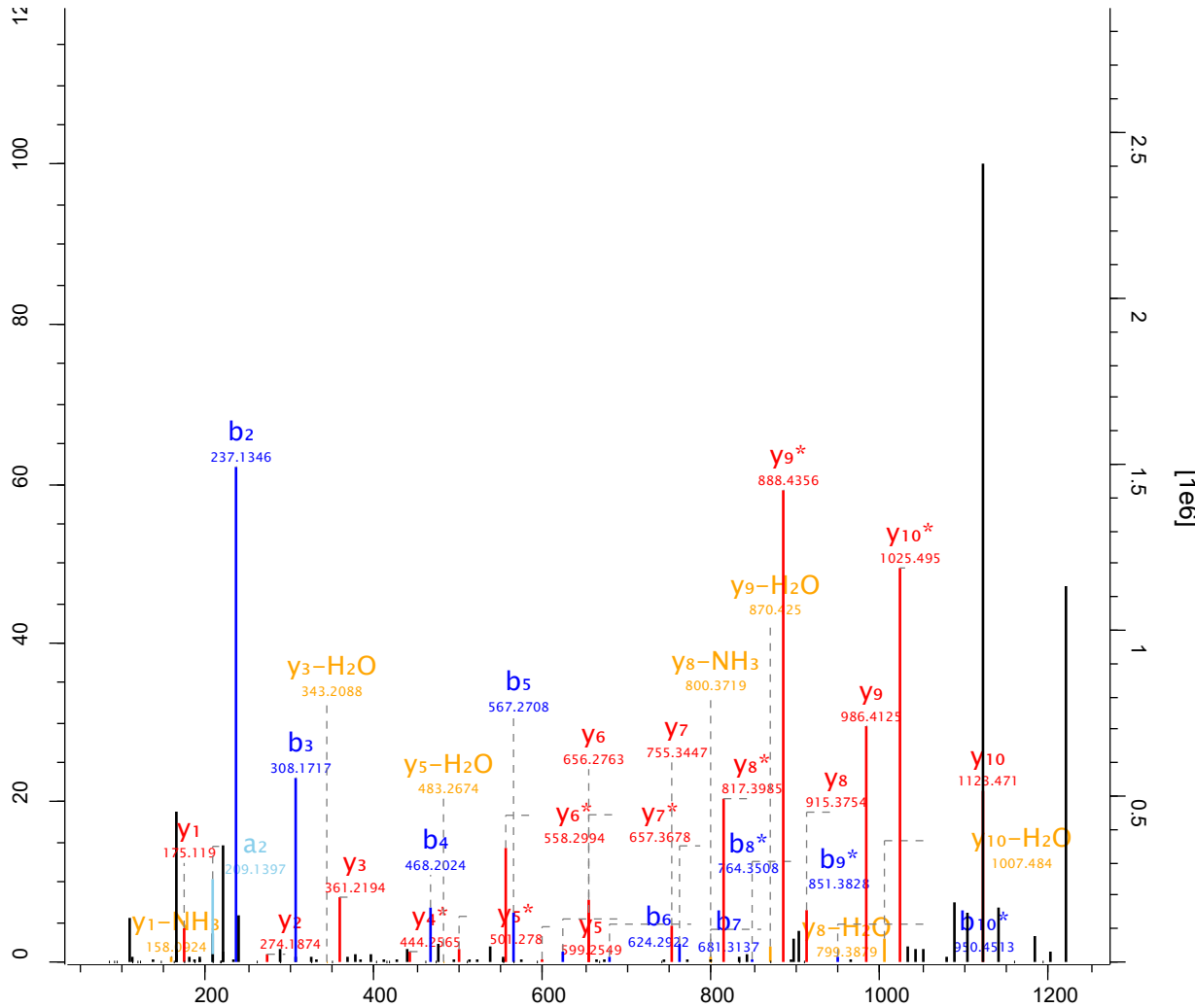
- A S D E H S ph S T T S D T T T I
 b₂ b₃ b₅ b₇^{*} b₈ b₉ b₁₁^{*}

y₁
 K -

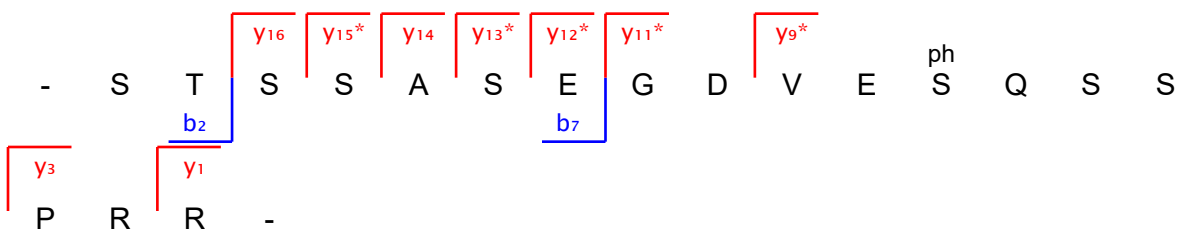
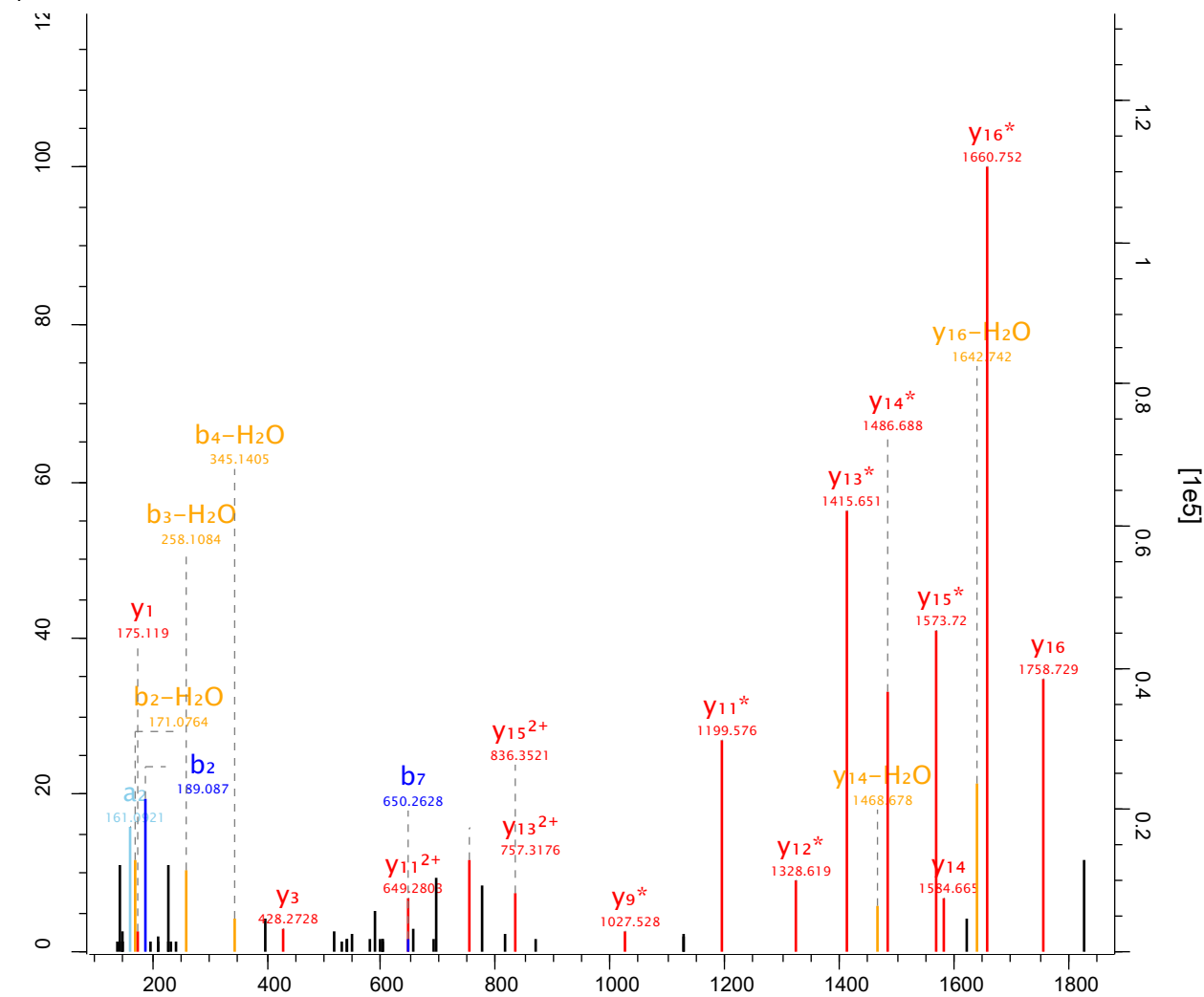
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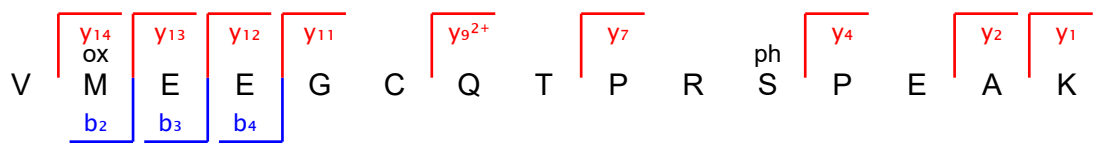
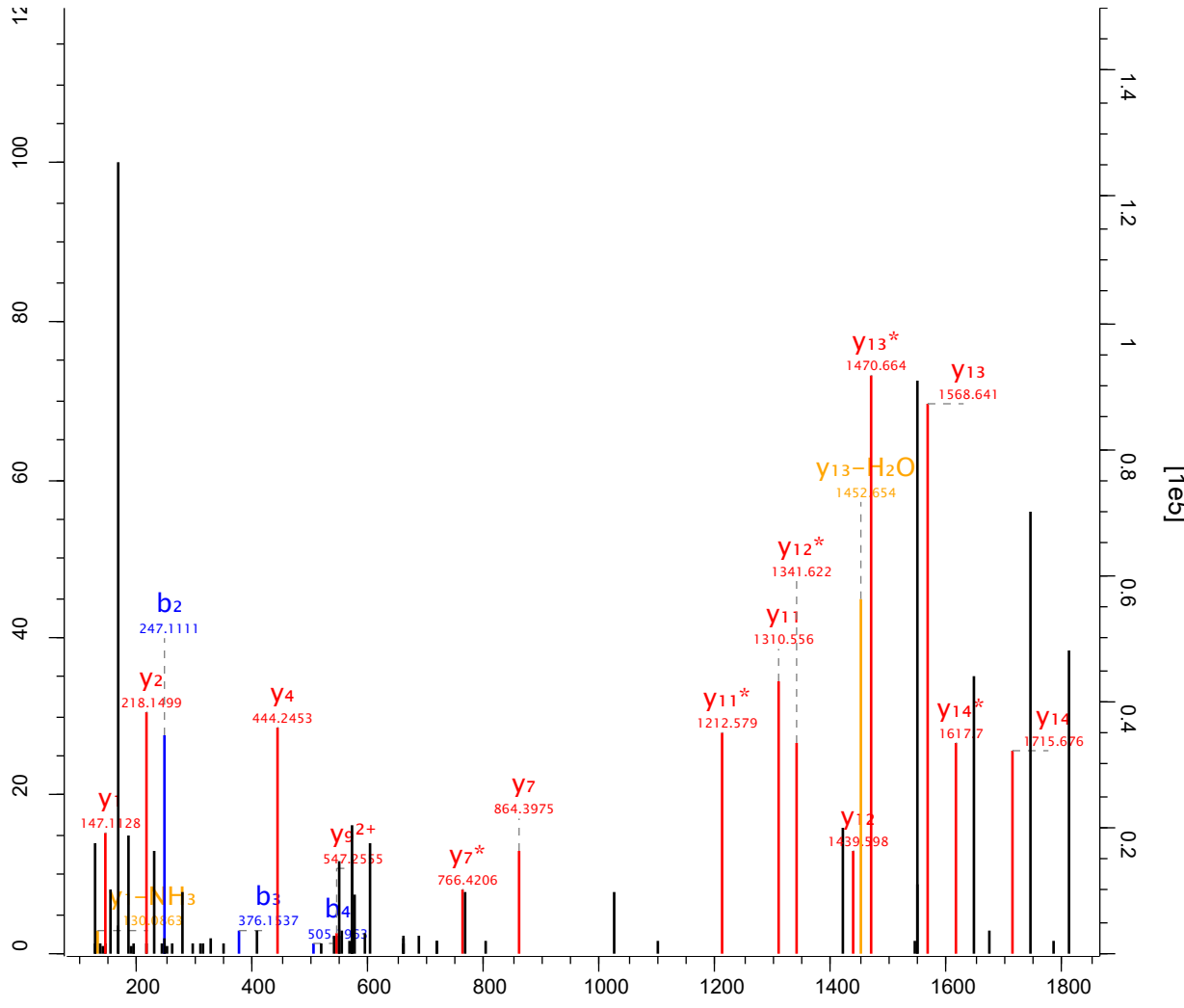
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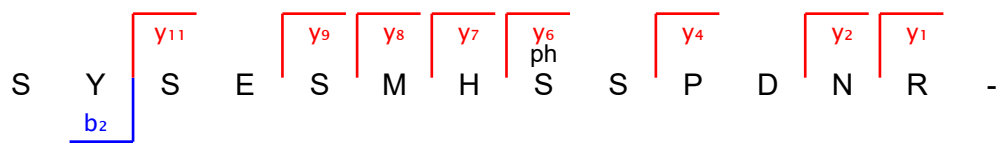
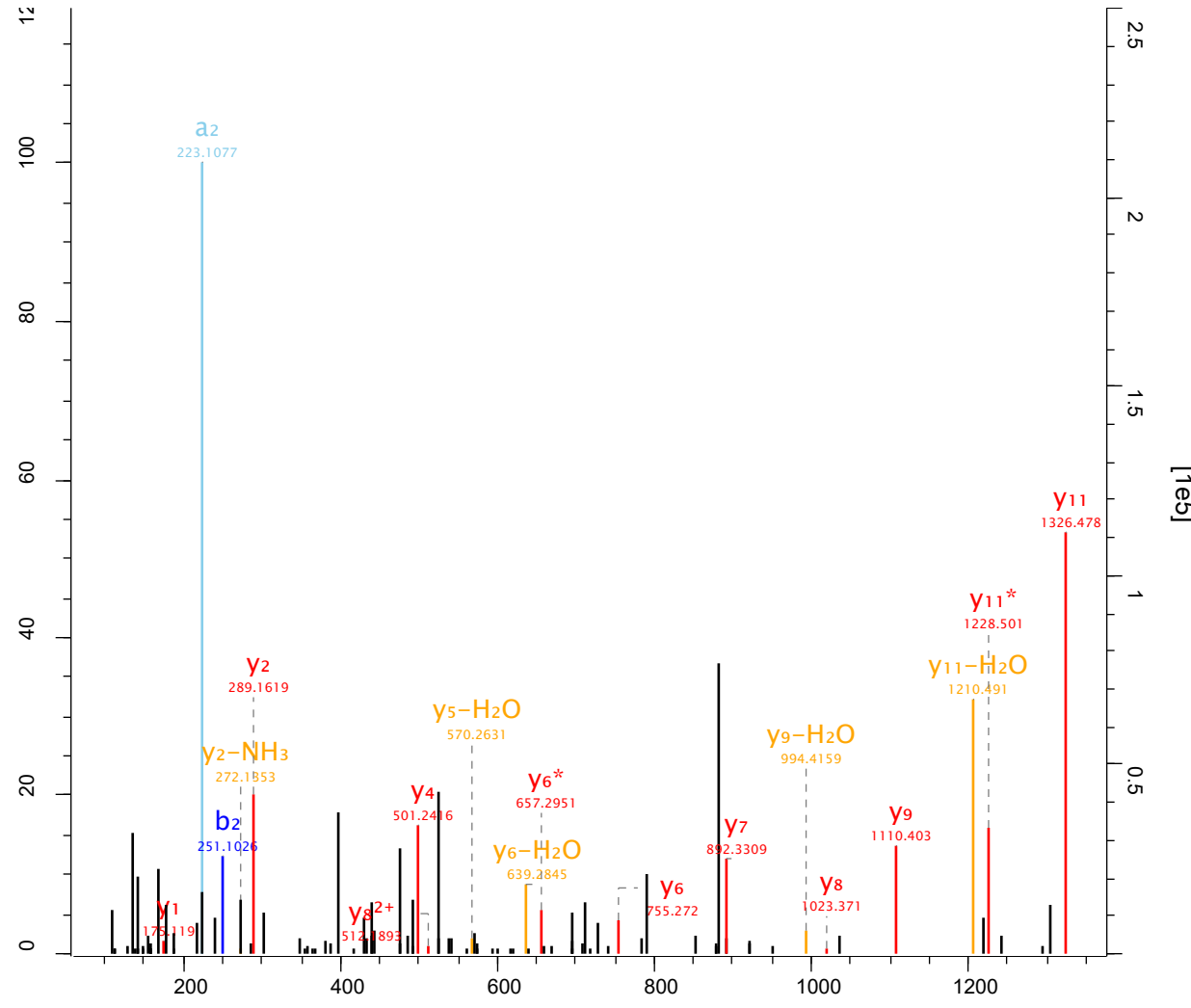
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 sys_02_2 3518 FTMS; HCD 80.24 649.61



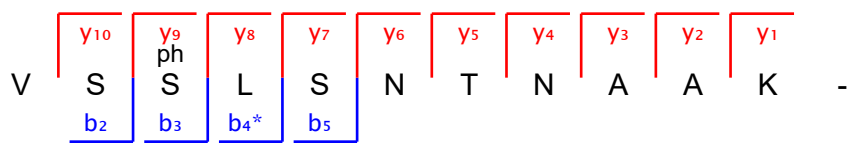
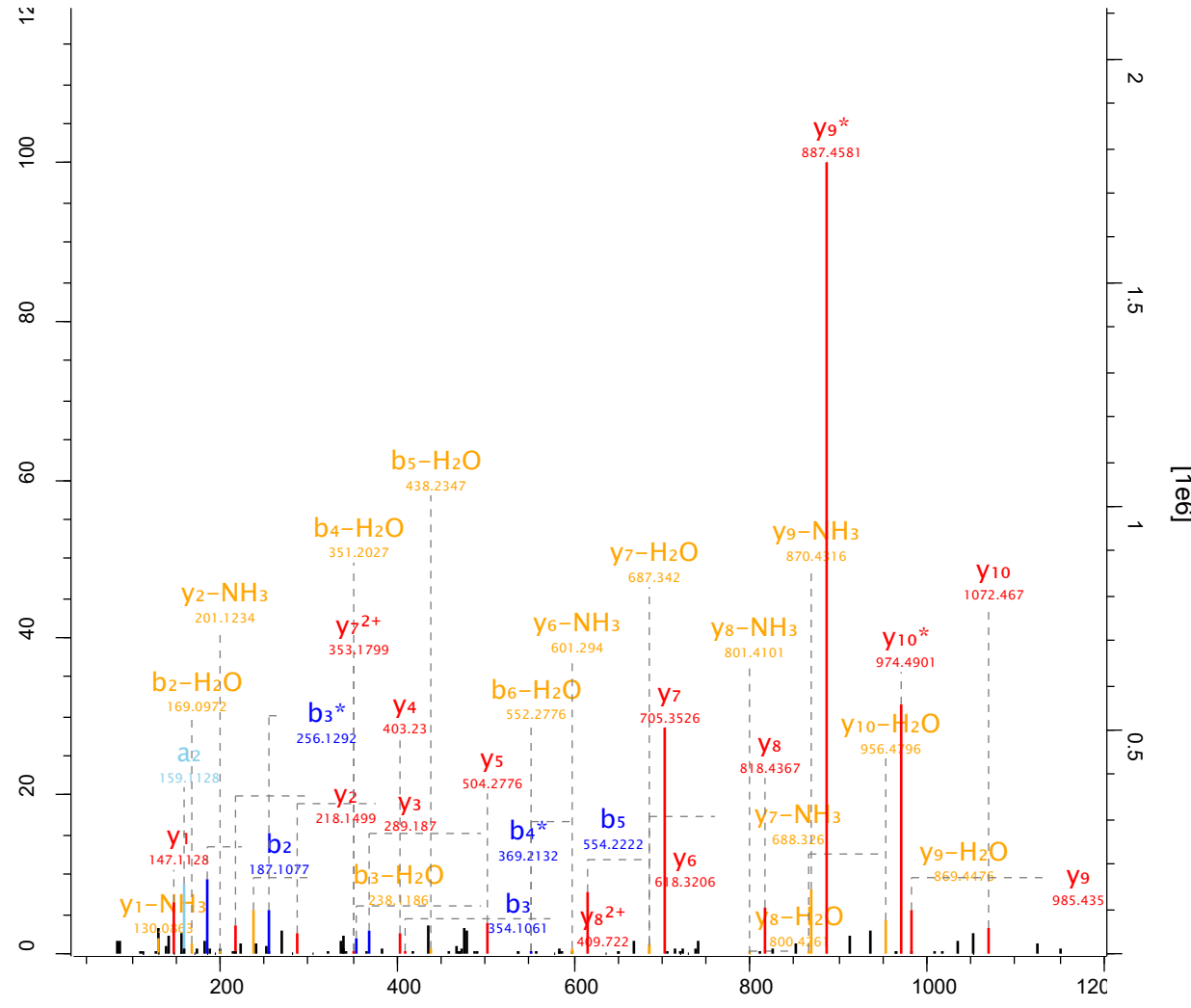
Raw file	Scan	Method	Score	m/z
sys_02_2	3556	FTMS; HCD	89.47	605.59



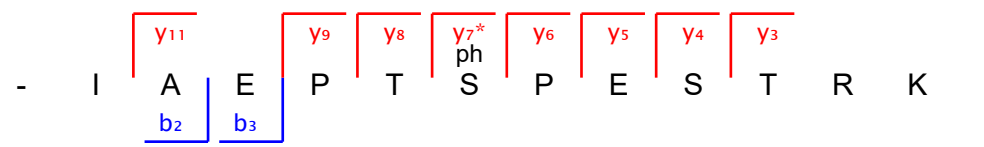
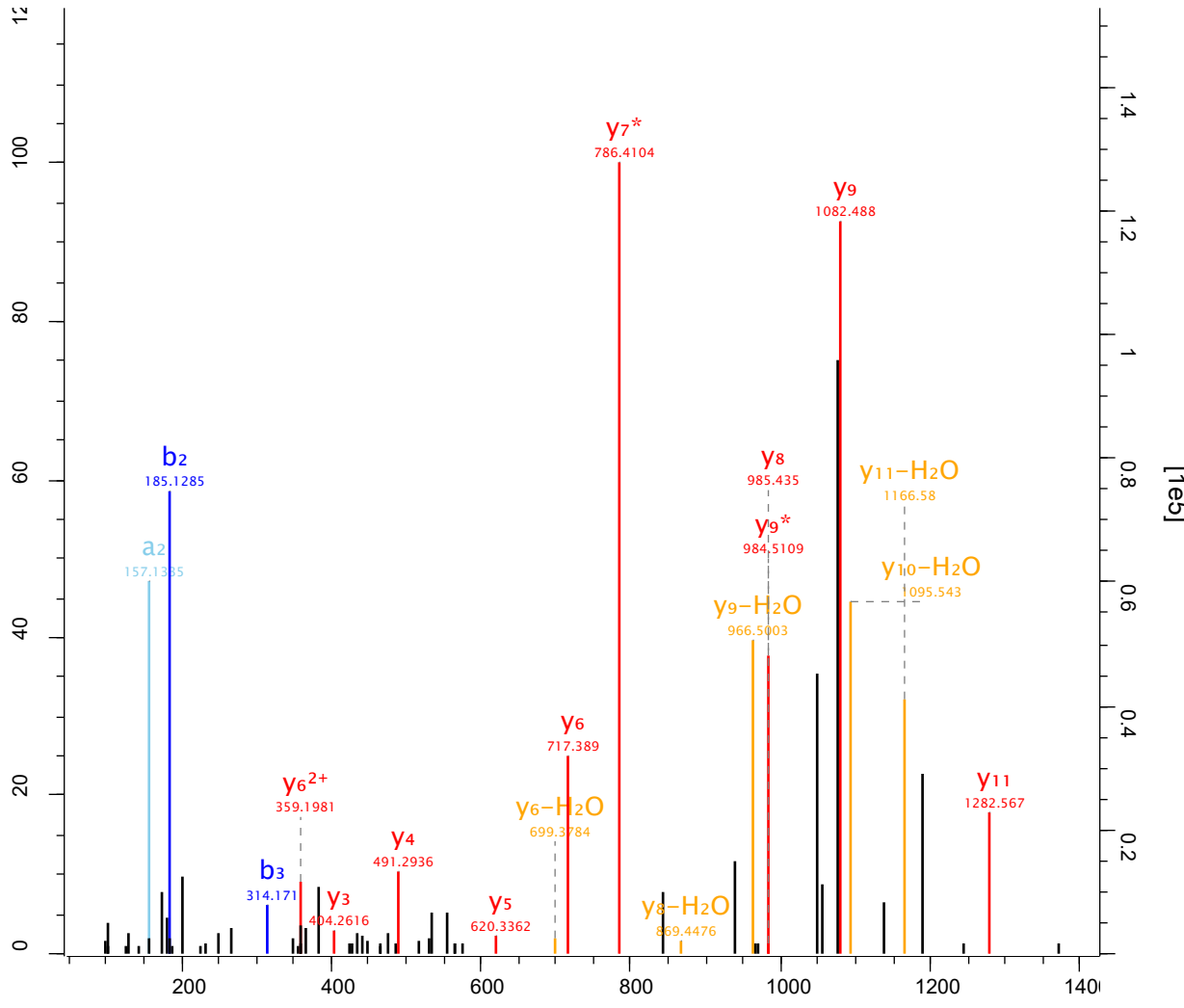
Raw file Scan Method Score m/z
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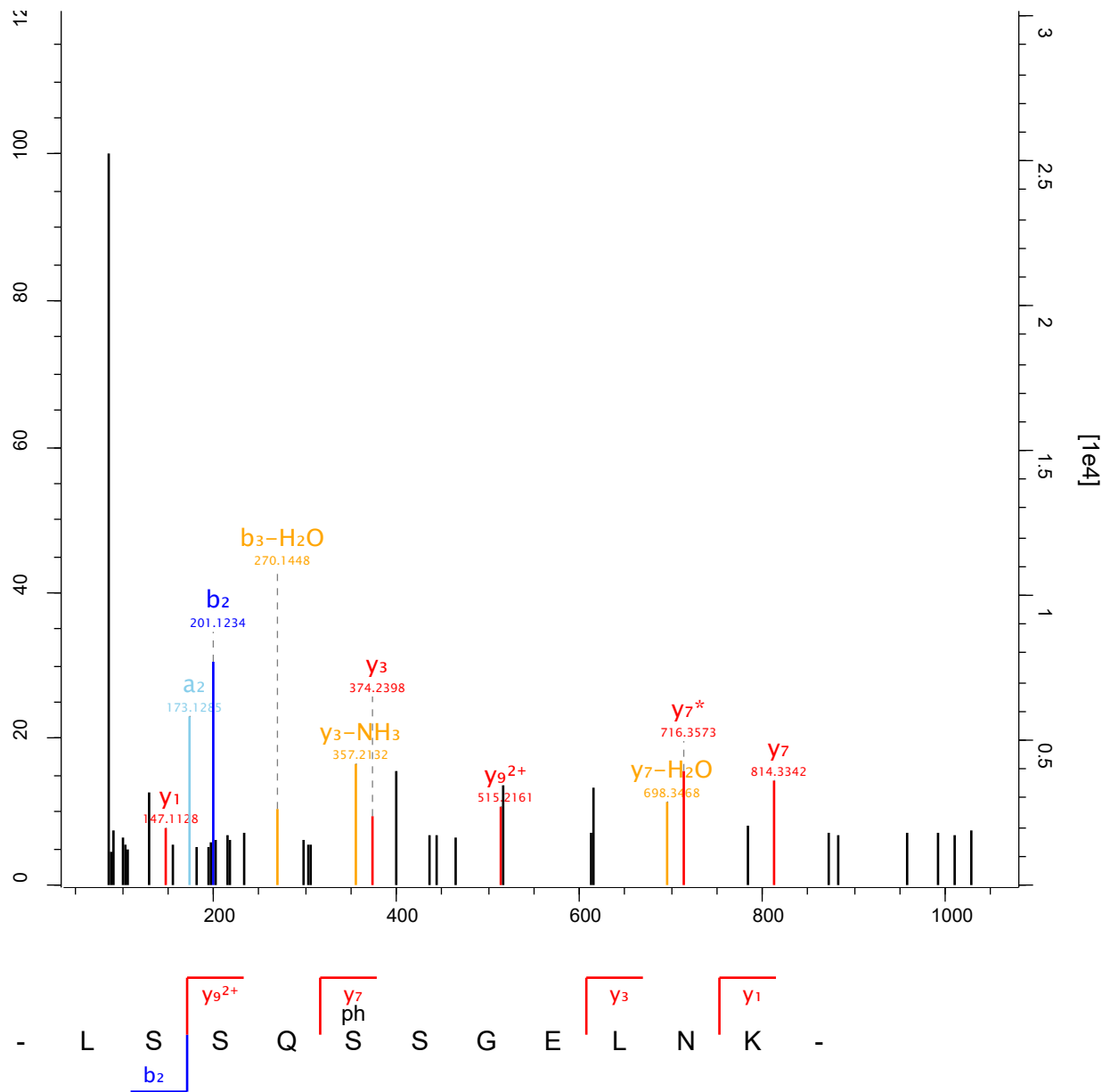
Raw file Scan Method Score m/z
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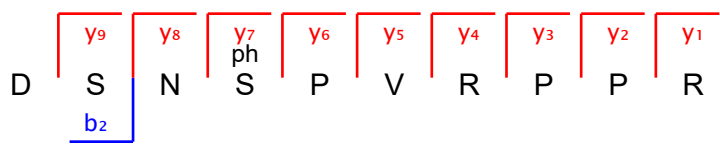
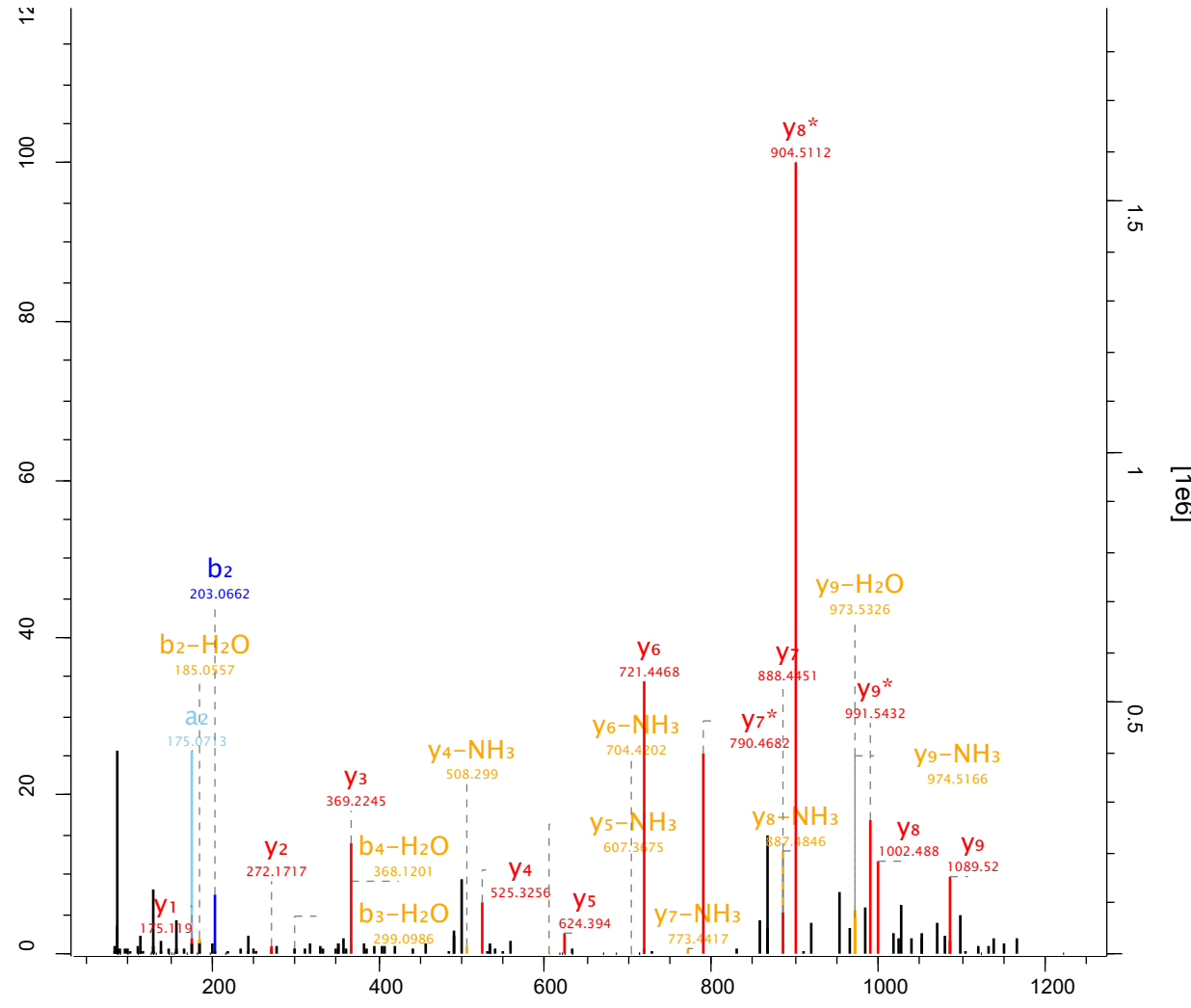
Raw file Scan Method Score m/z
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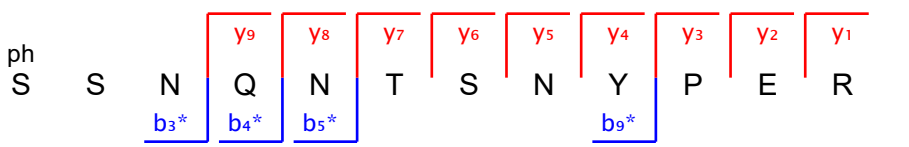
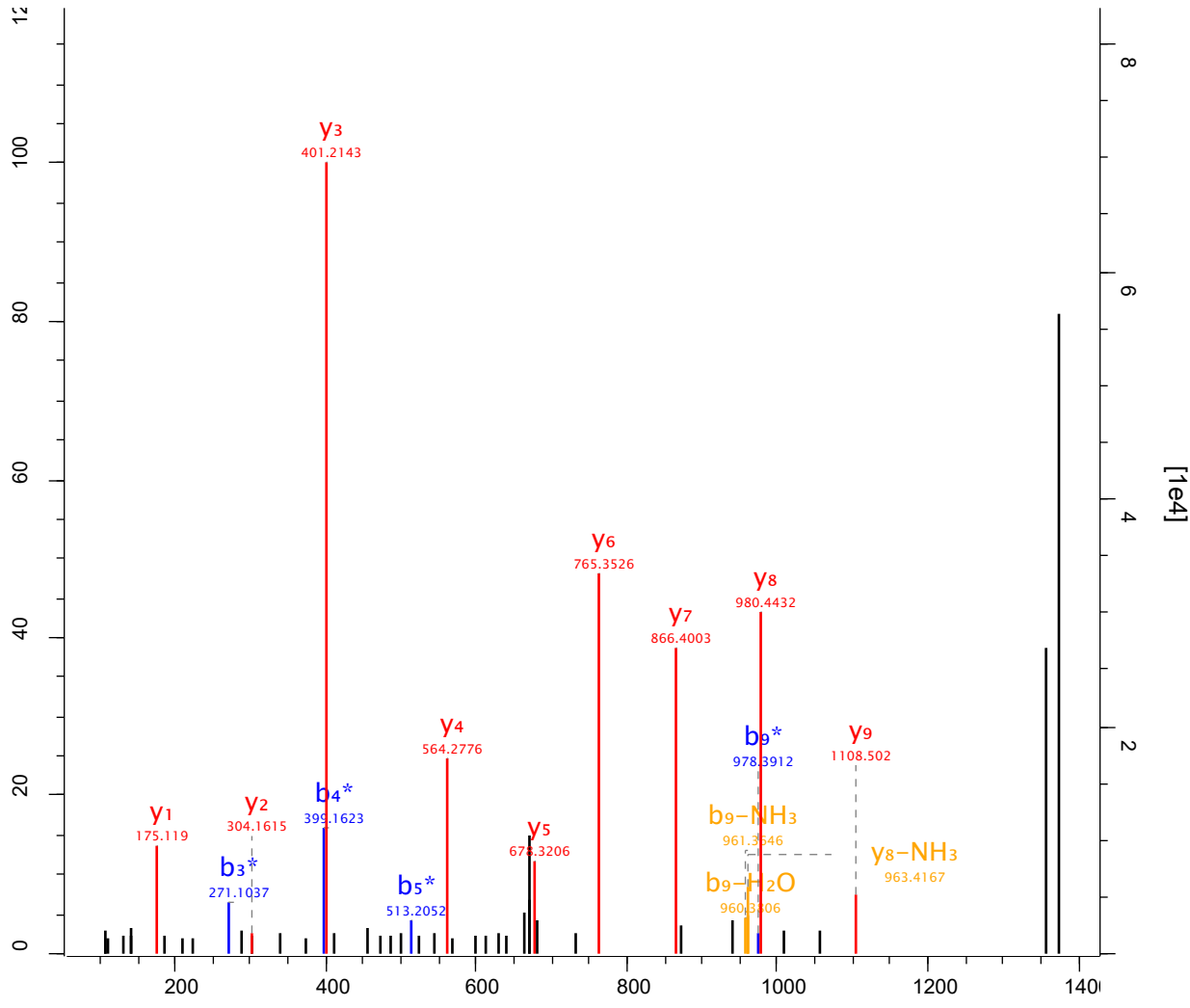
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sys_02_2	3950	FTMS; HCD	40.48	615.27



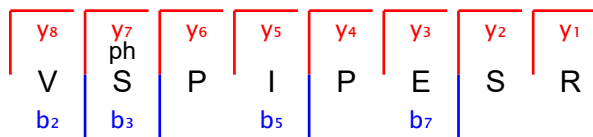
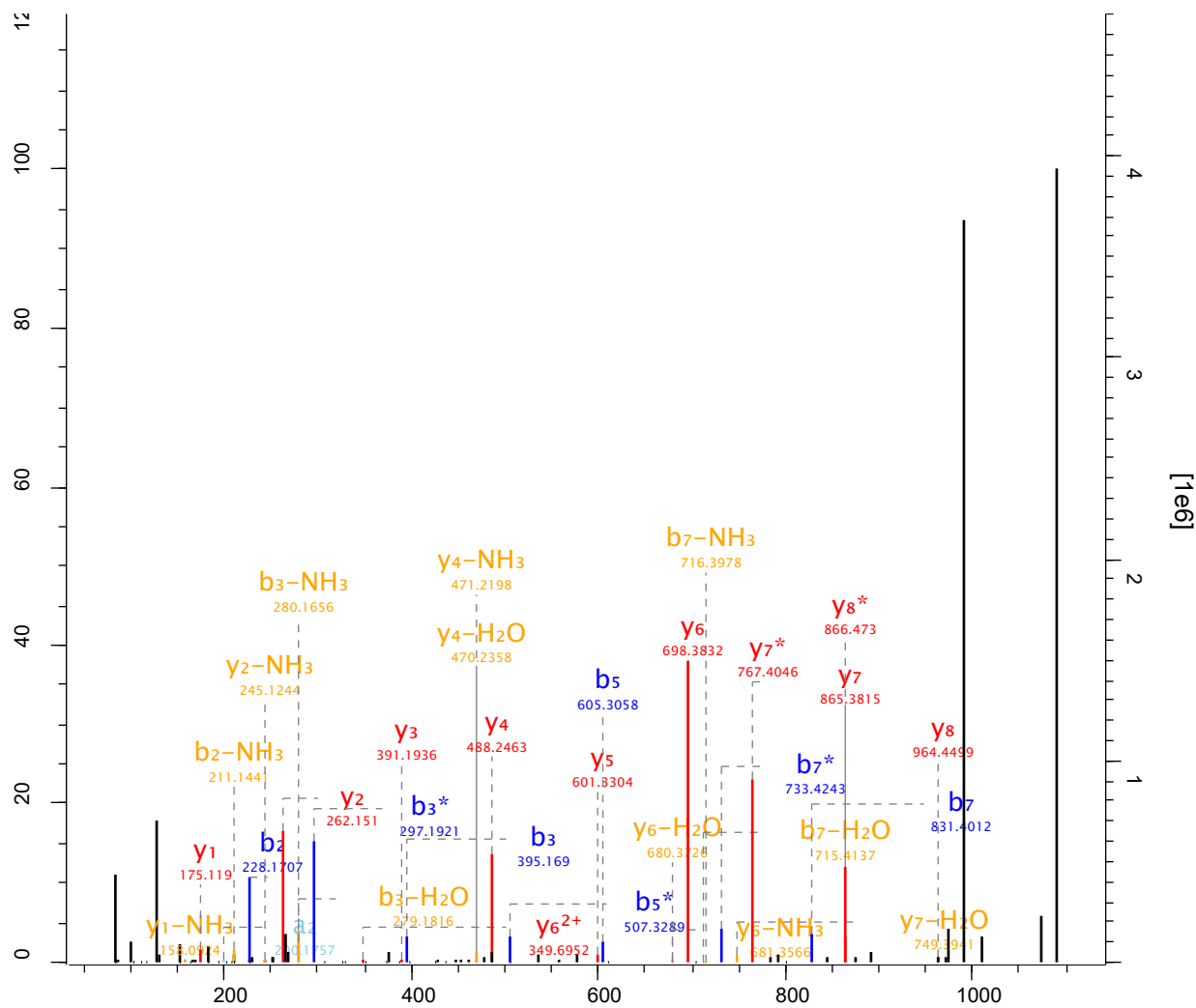
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sys_02_2	3953	FTMS; HCD	124.6	402.19



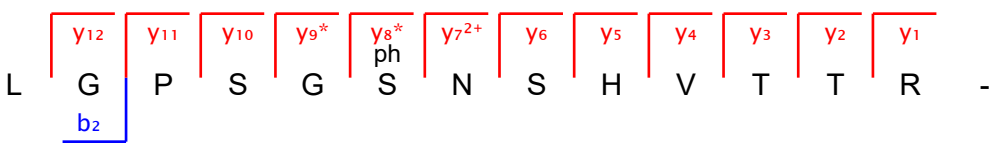
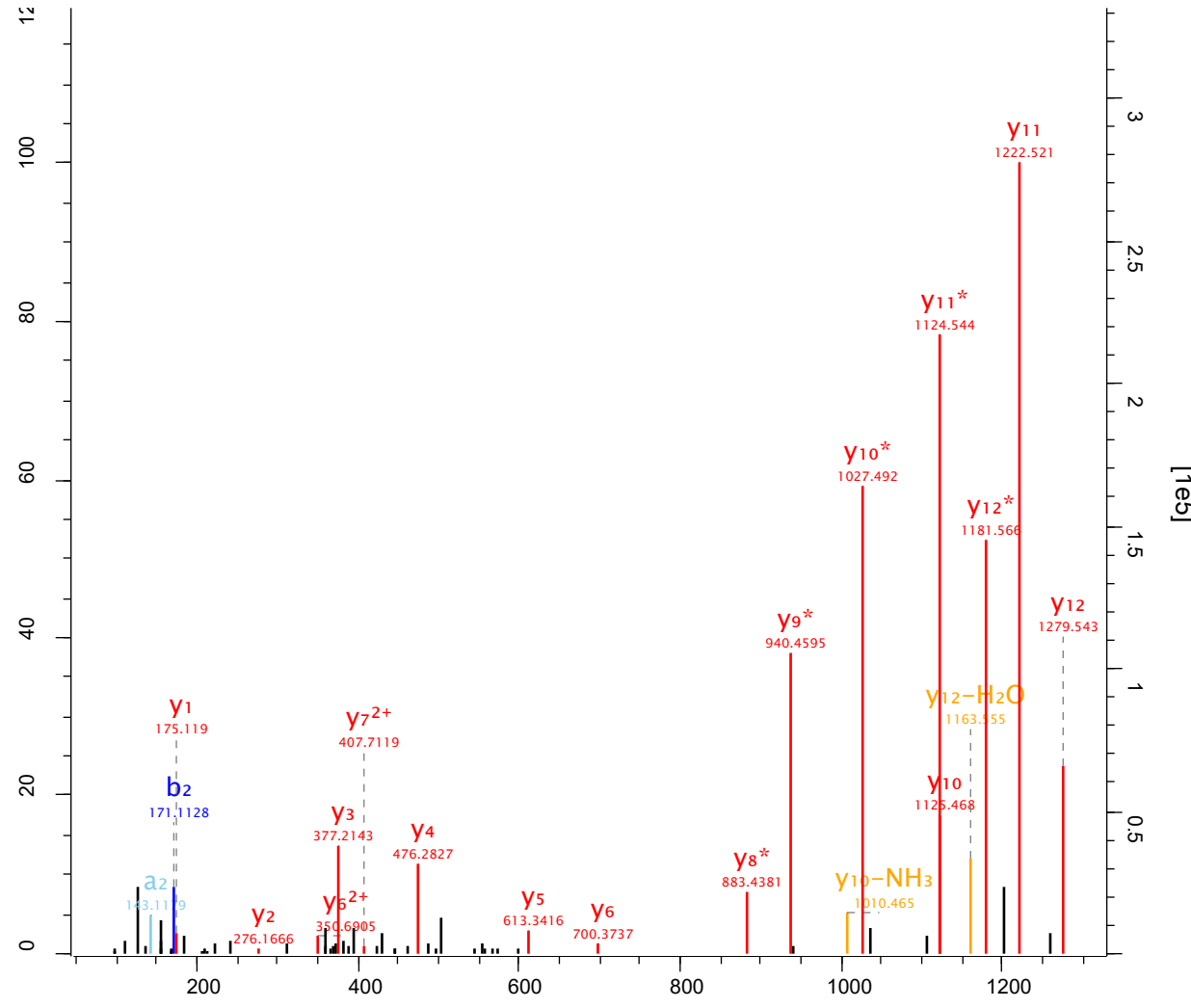
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sys_02_2	4013	FTMS; HCD	70.2	738.79



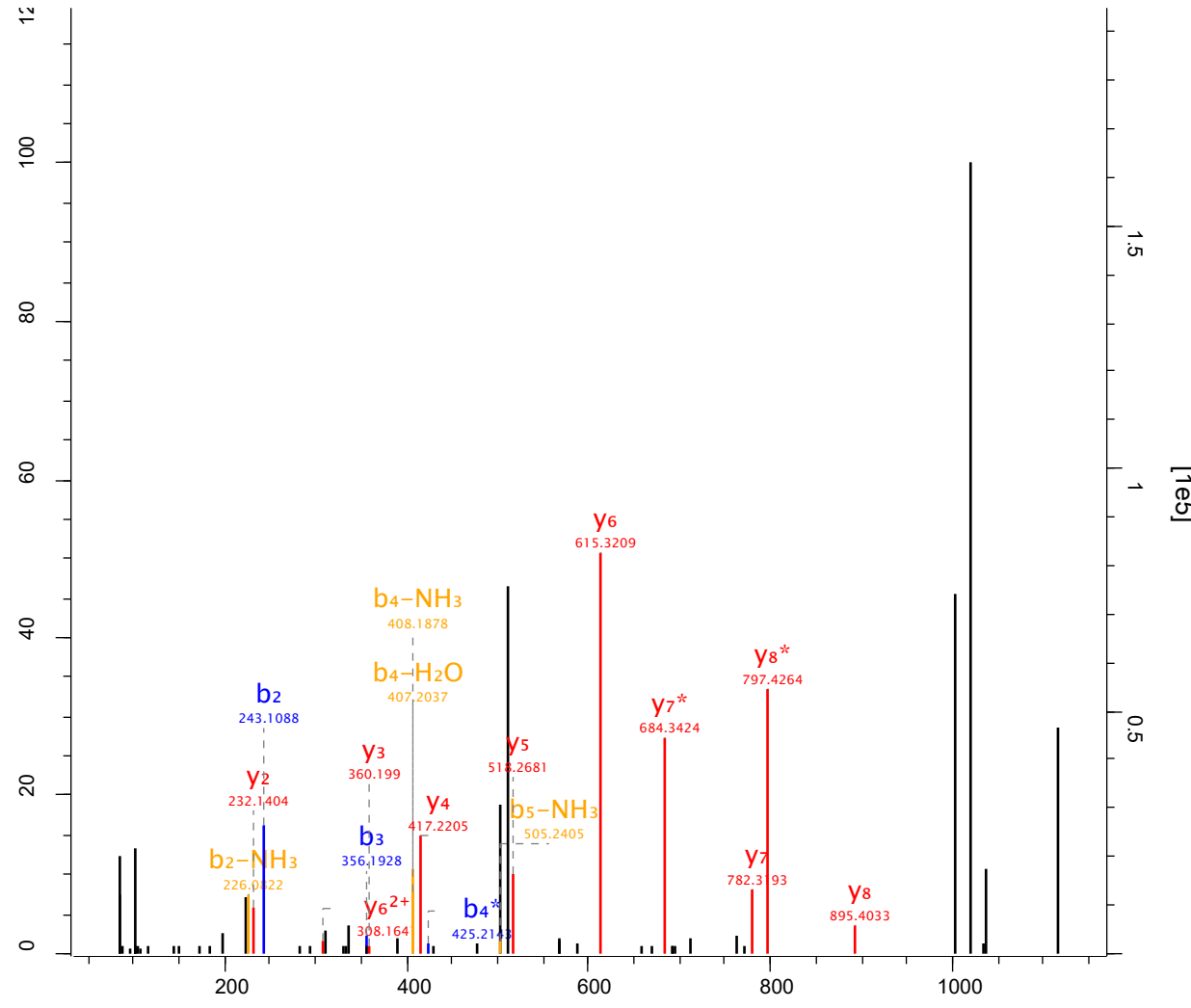
Raw file Scan Method Score m/z
 sys_02_2 4025 FTMS; HCD 149.83 546.78



Raw file Scan Method Score m/z
 sys_02_2 4034 FTMS; HCD 90.56 464.88



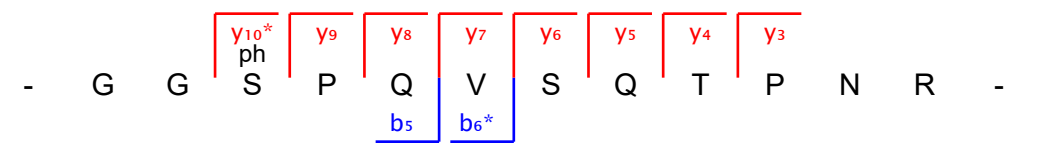
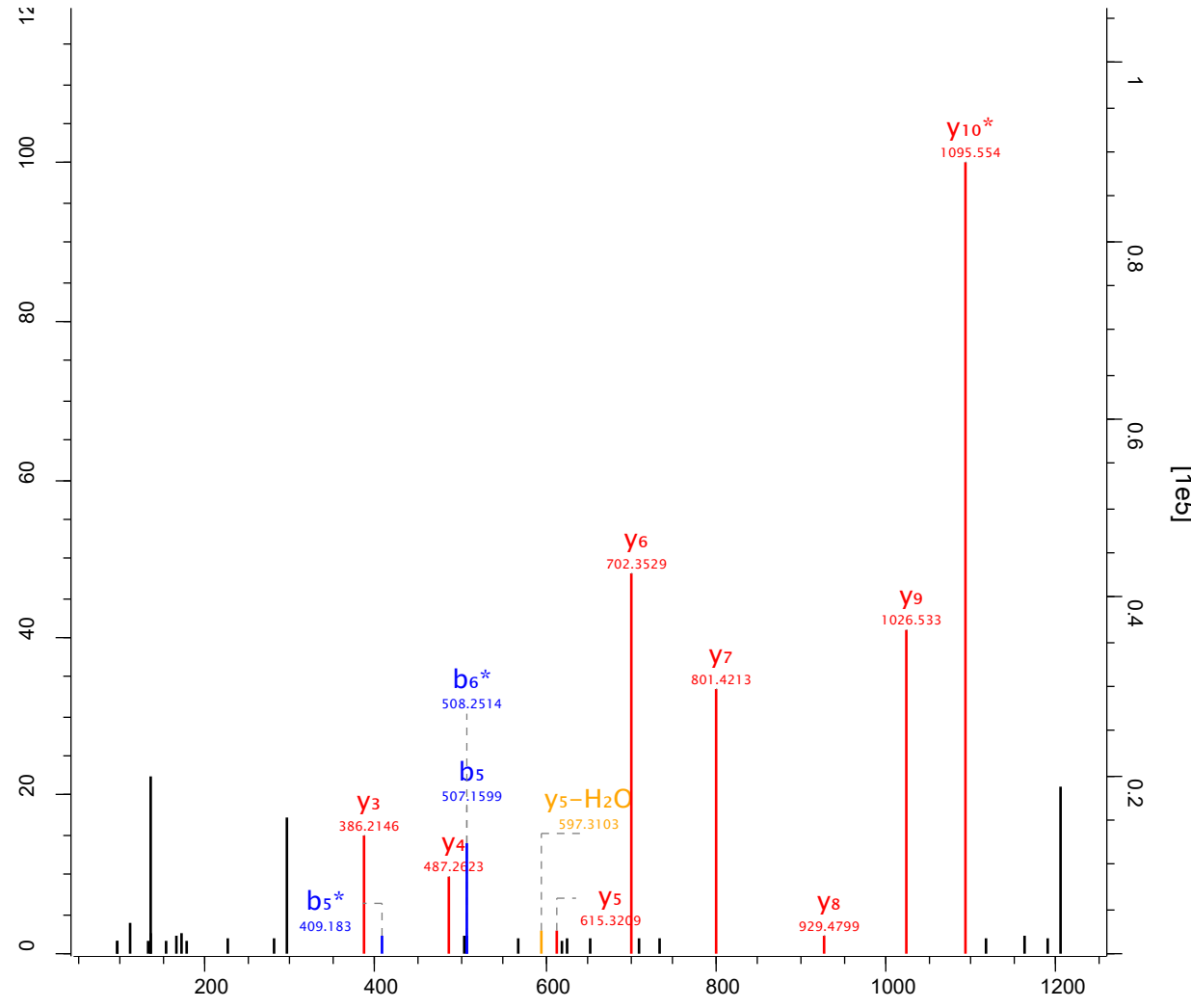
Raw file Scan Method Score m/z
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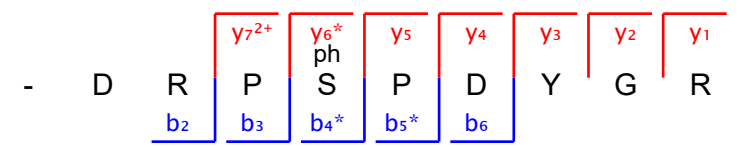
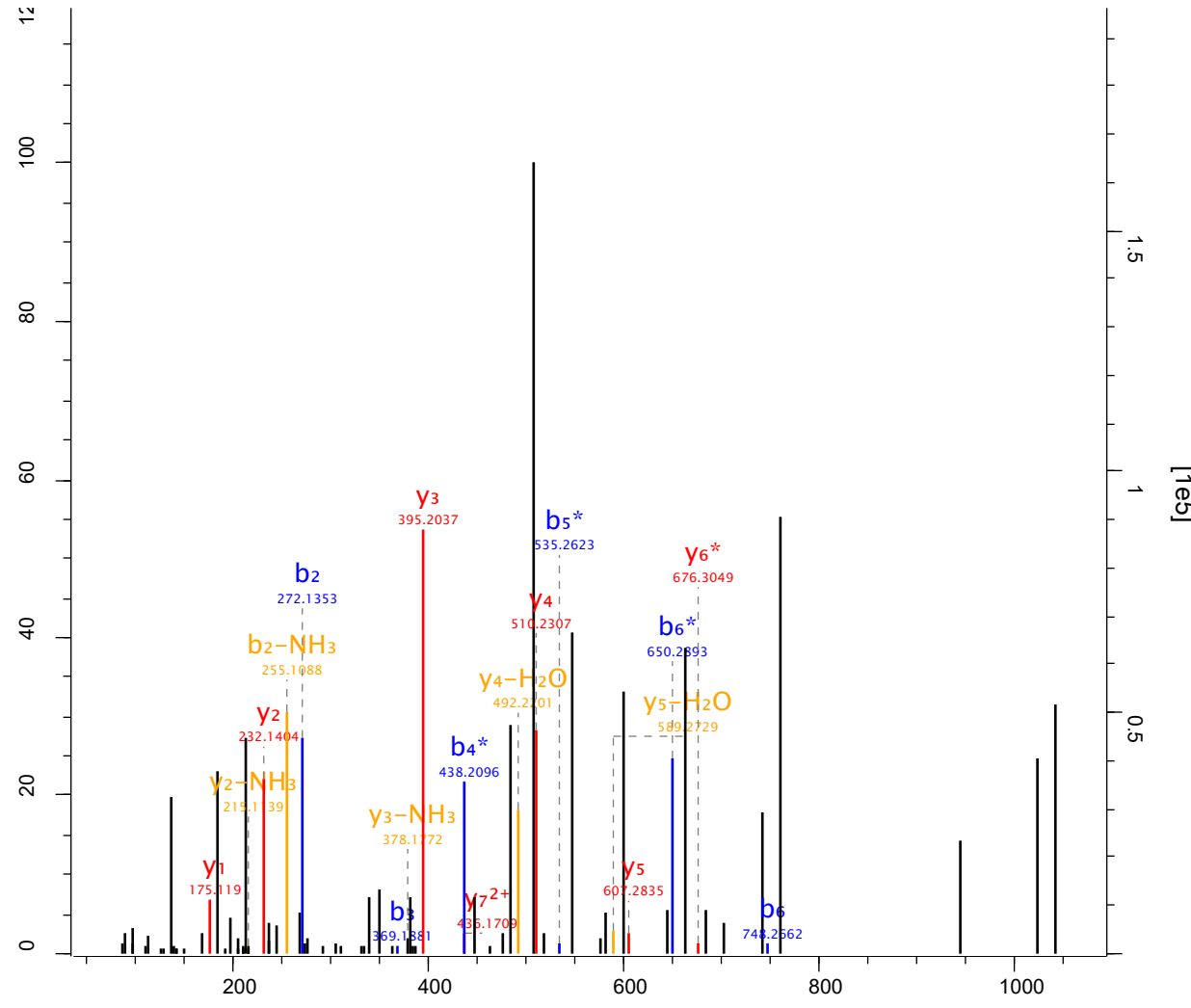
- Q N I S P T G Q G R -

b₂
b₃
b₄^{*}
y₈
y₇
ph
y₆
y₅
y₄
y₃
y₂

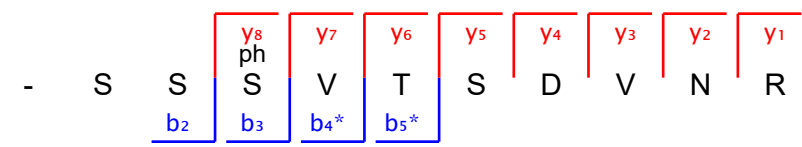
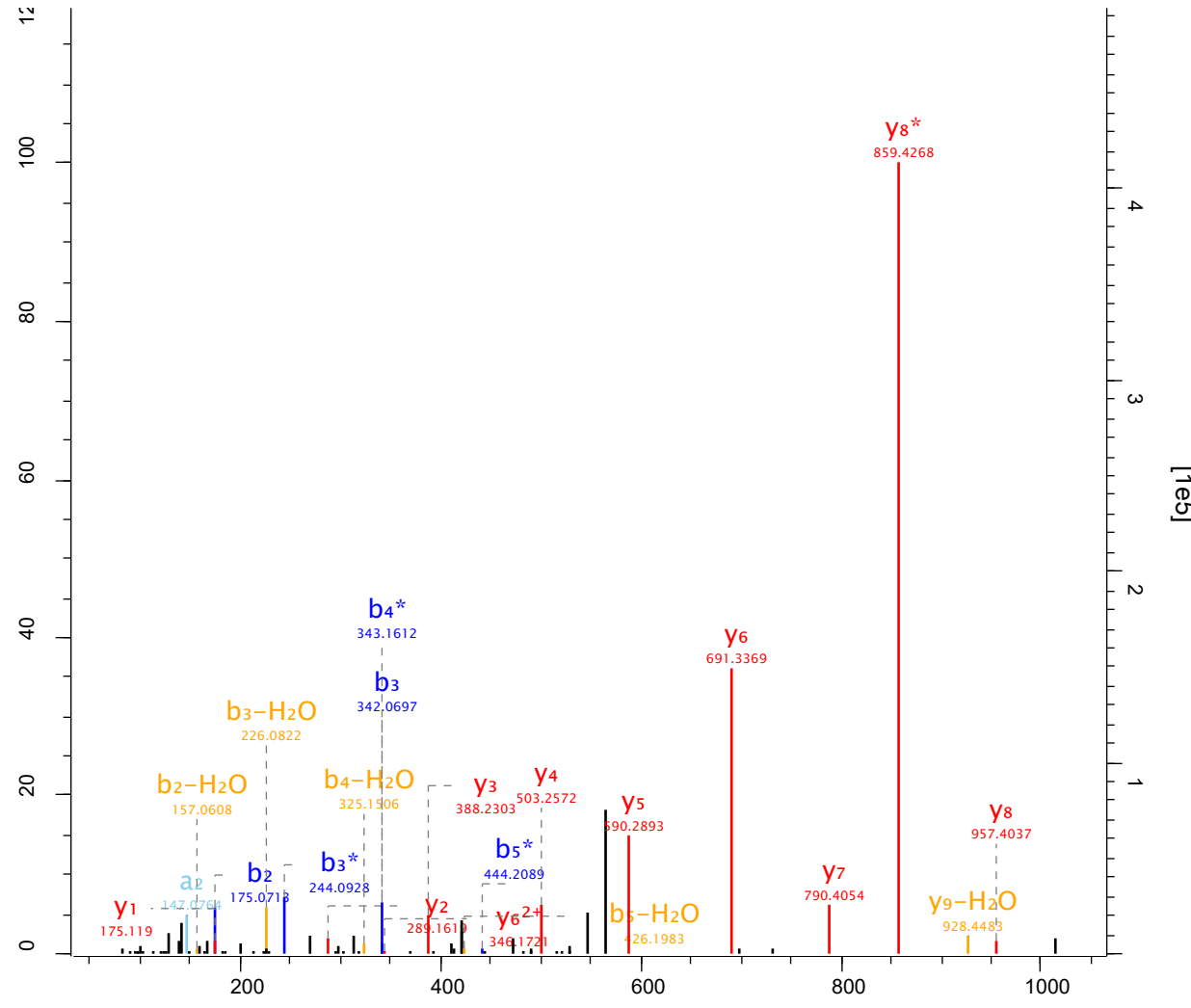
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sys_02_2	4063	FTMS; HCD	49.59	654.29



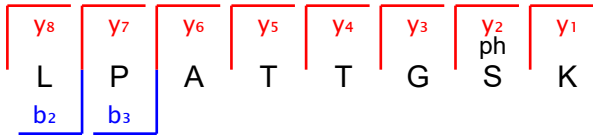
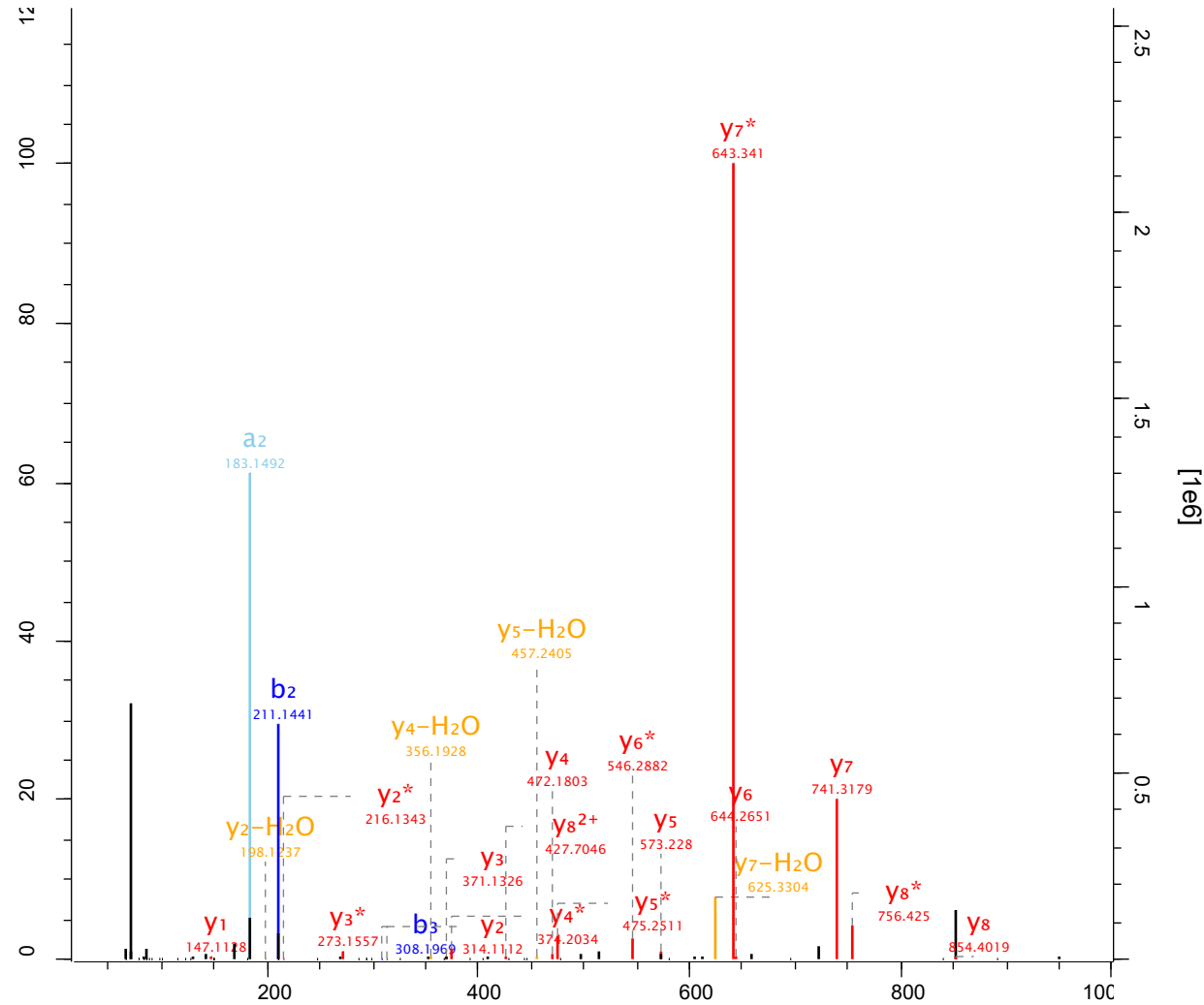
Raw file Scan Method Score m/z
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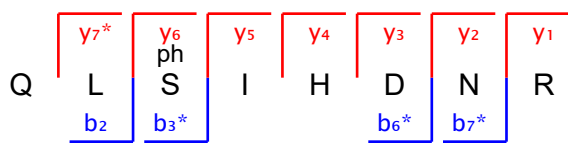
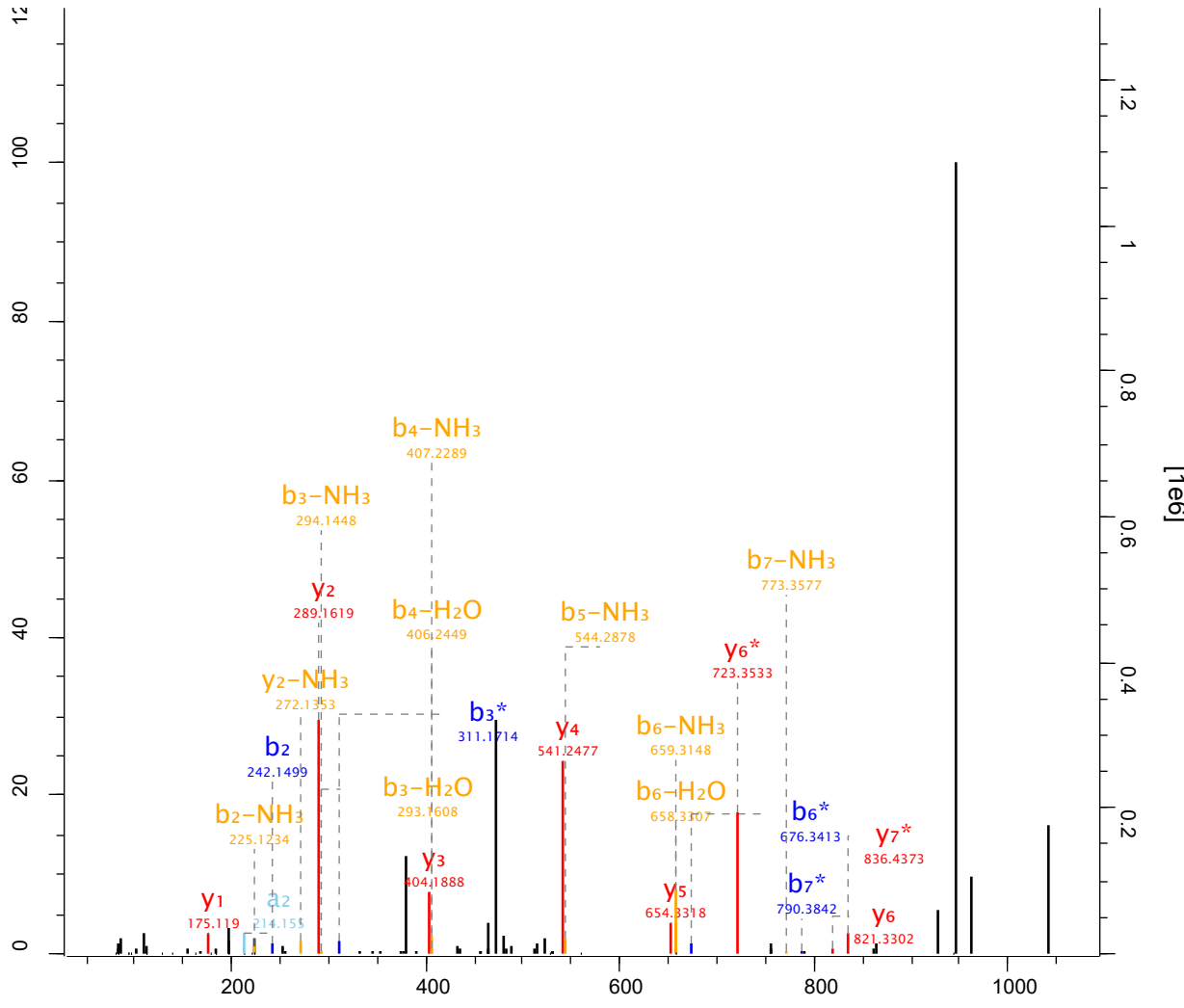
Raw file Scan Method Score m/z
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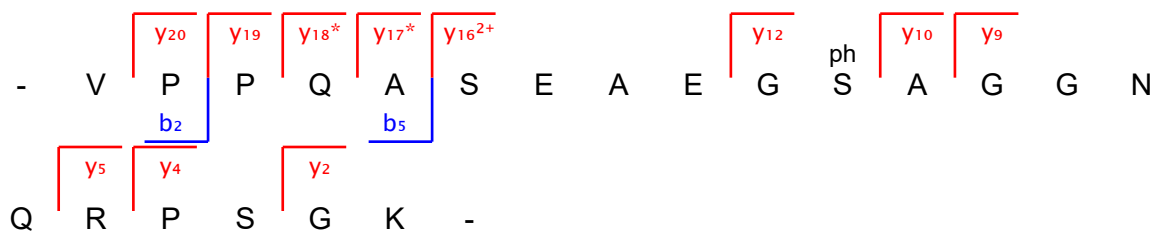
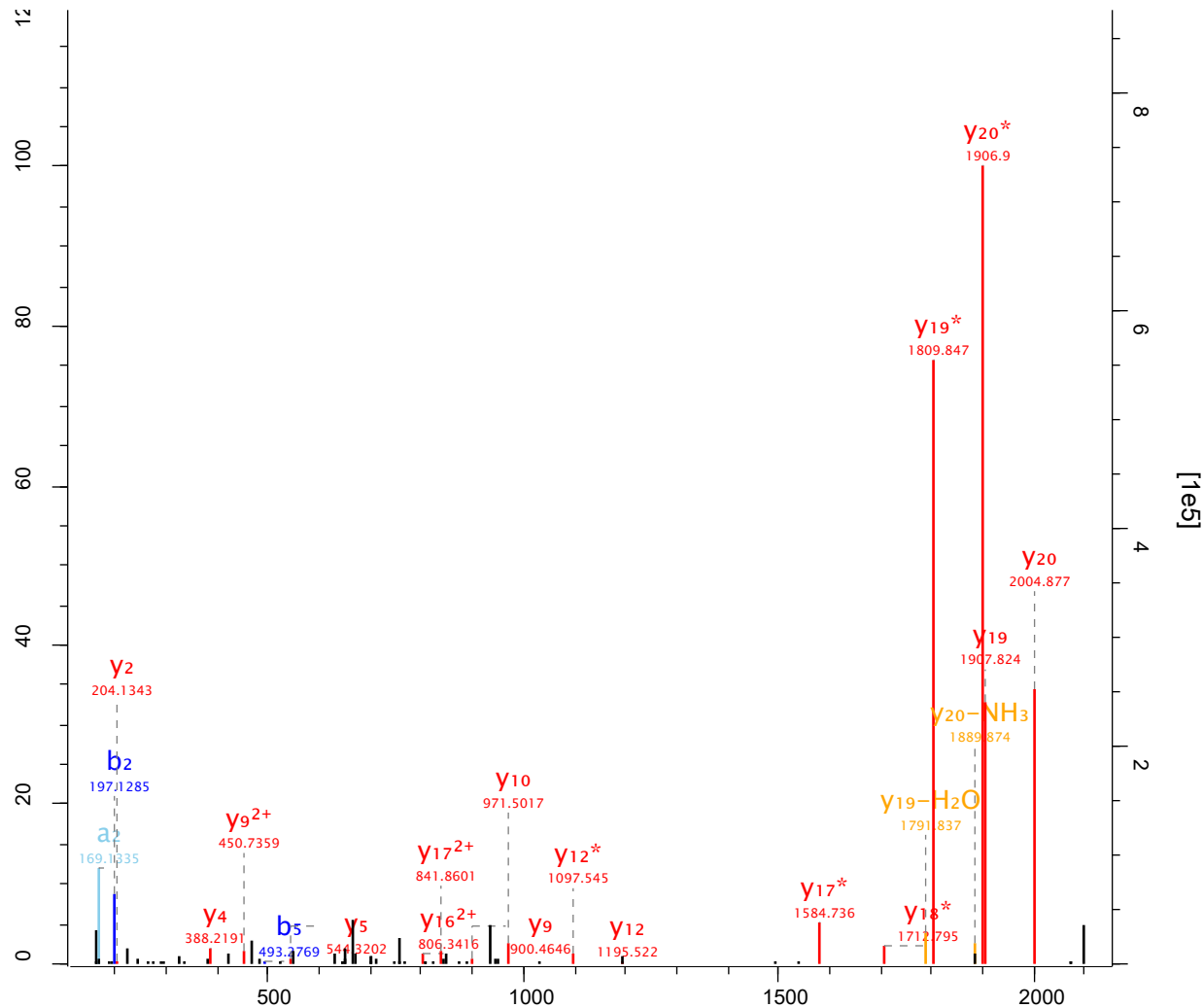
Raw file Scan Method Score m/z
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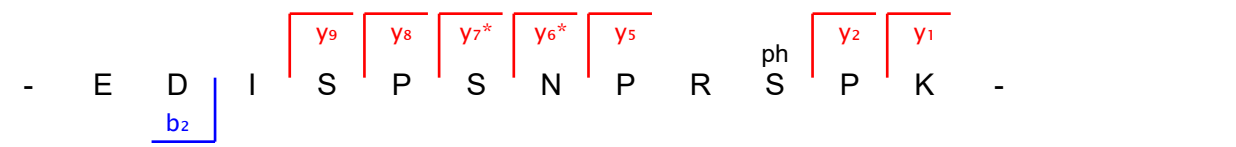
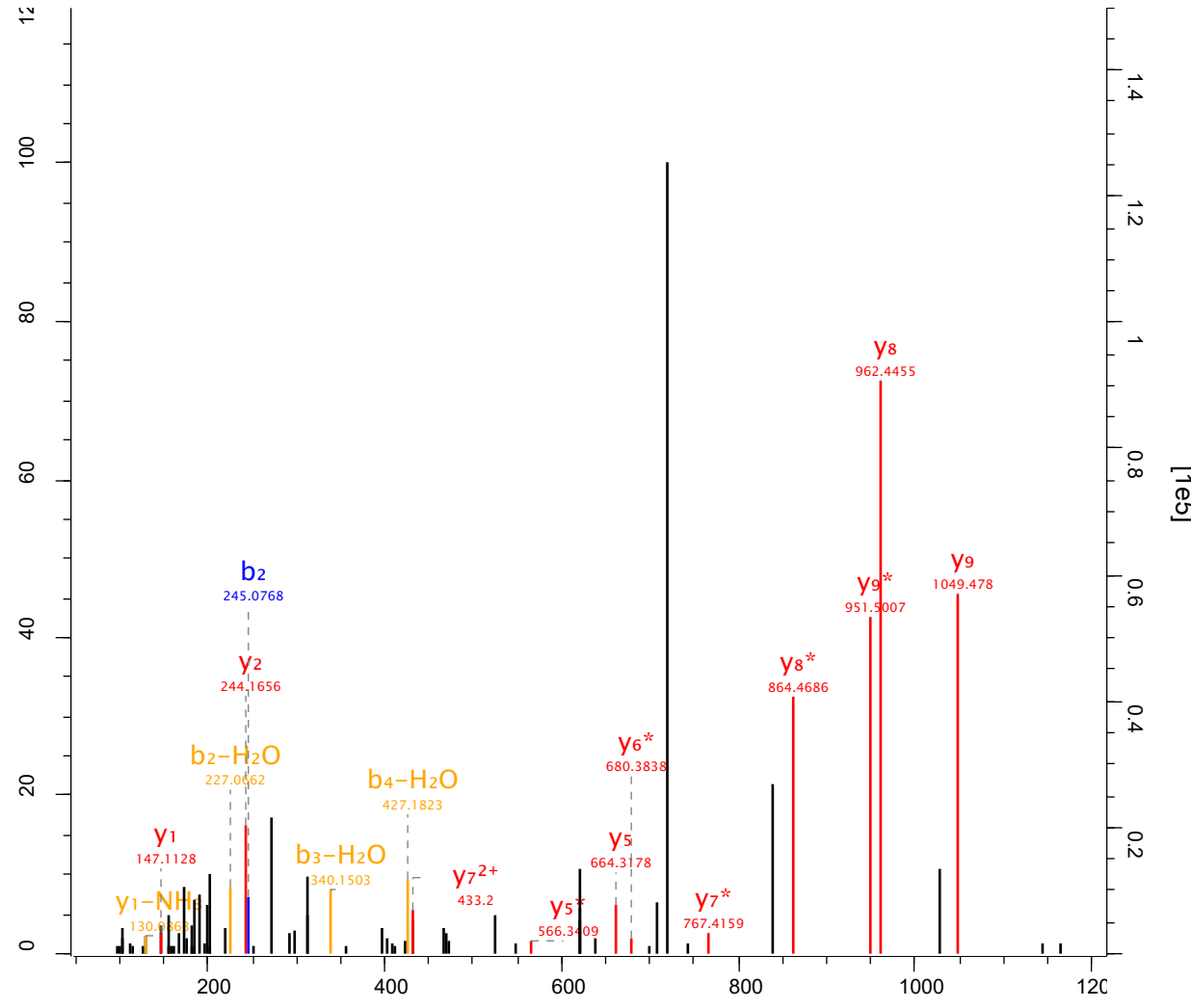
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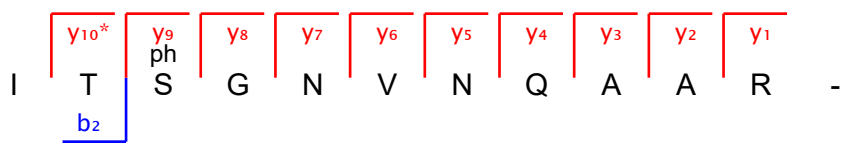
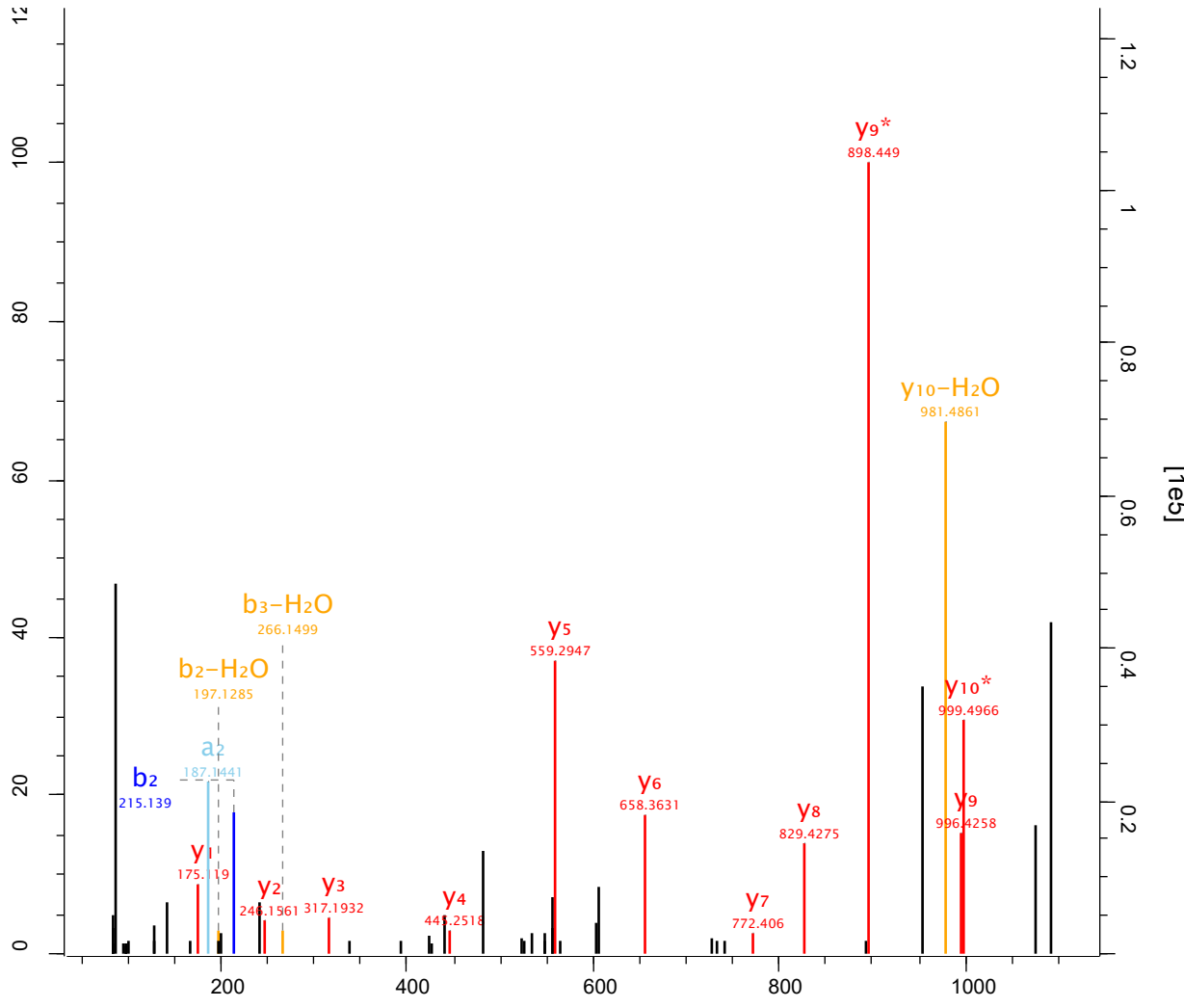
Raw file Scan Method Score m/z
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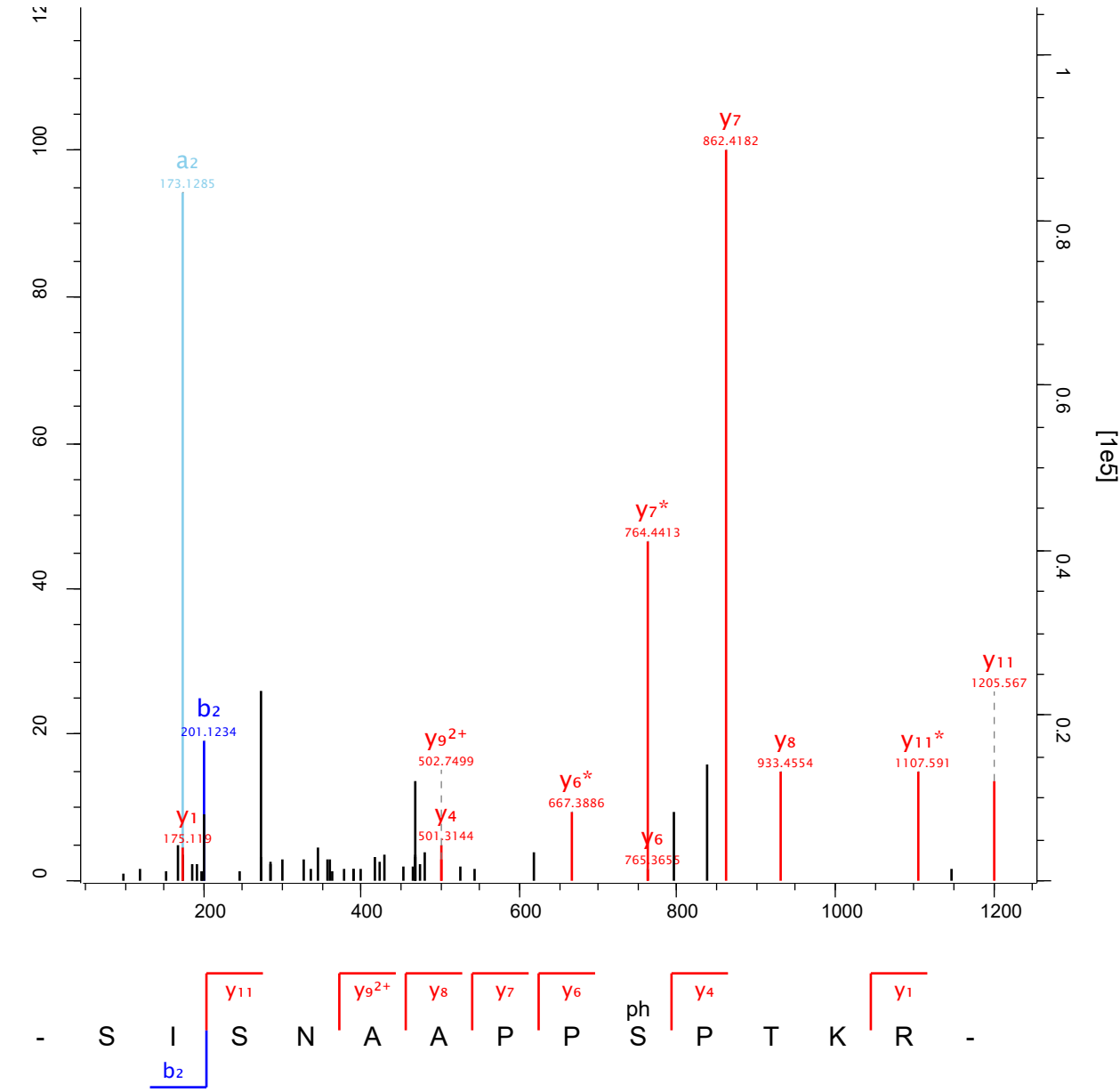
Raw file	Scan	Method	Score	m/z
sys_02_2	4627	FTMS; HCD	41.54	469.55



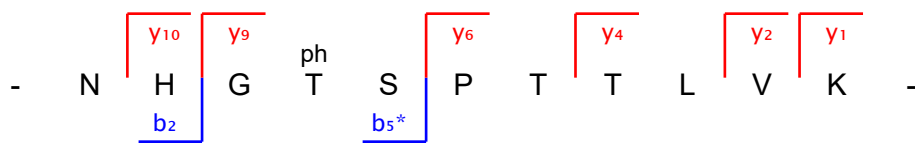
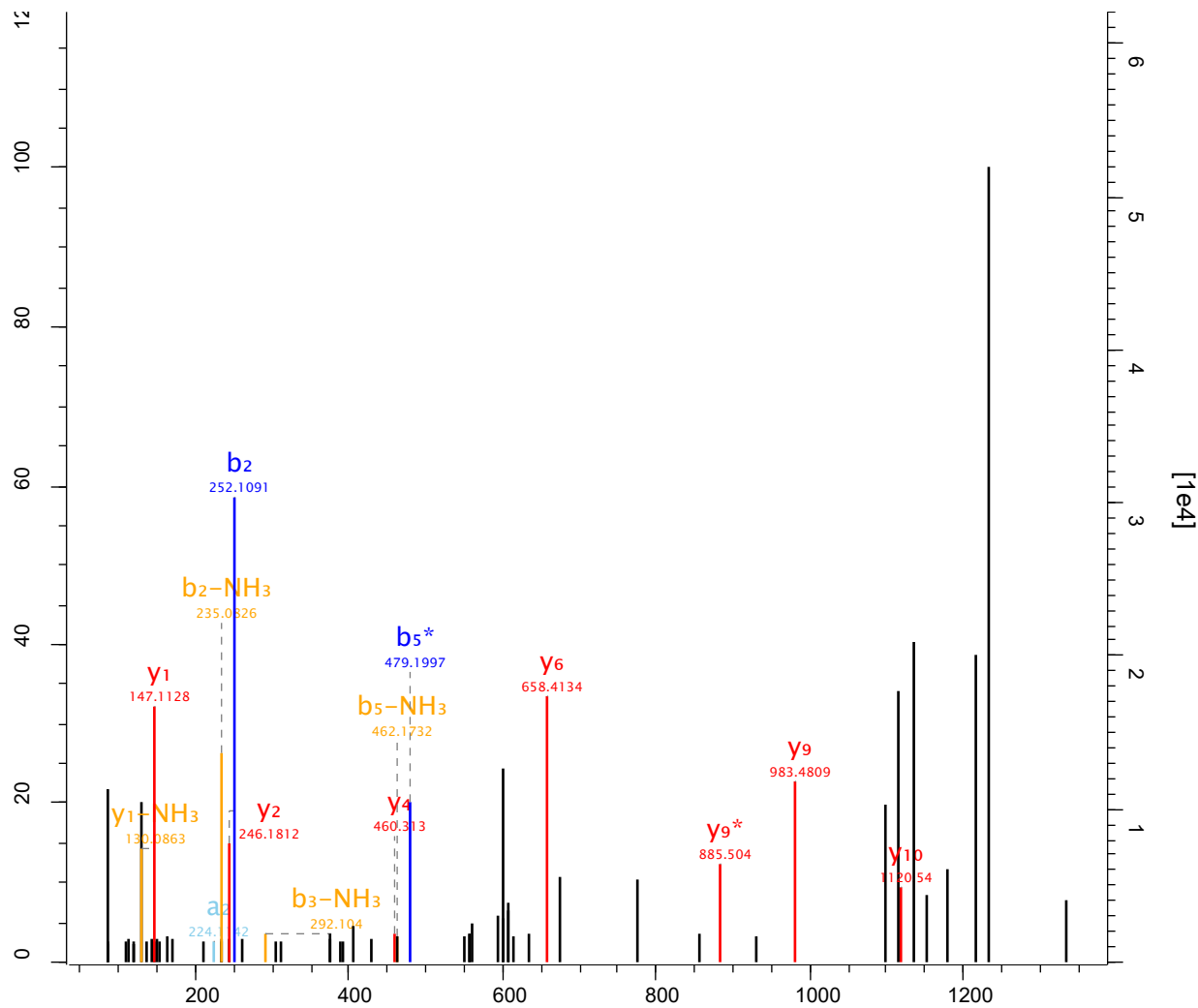
Raw file	Scan	Method	Score	m/z
sys_02_2	4675	FTMS; HCD	76.07	605.78



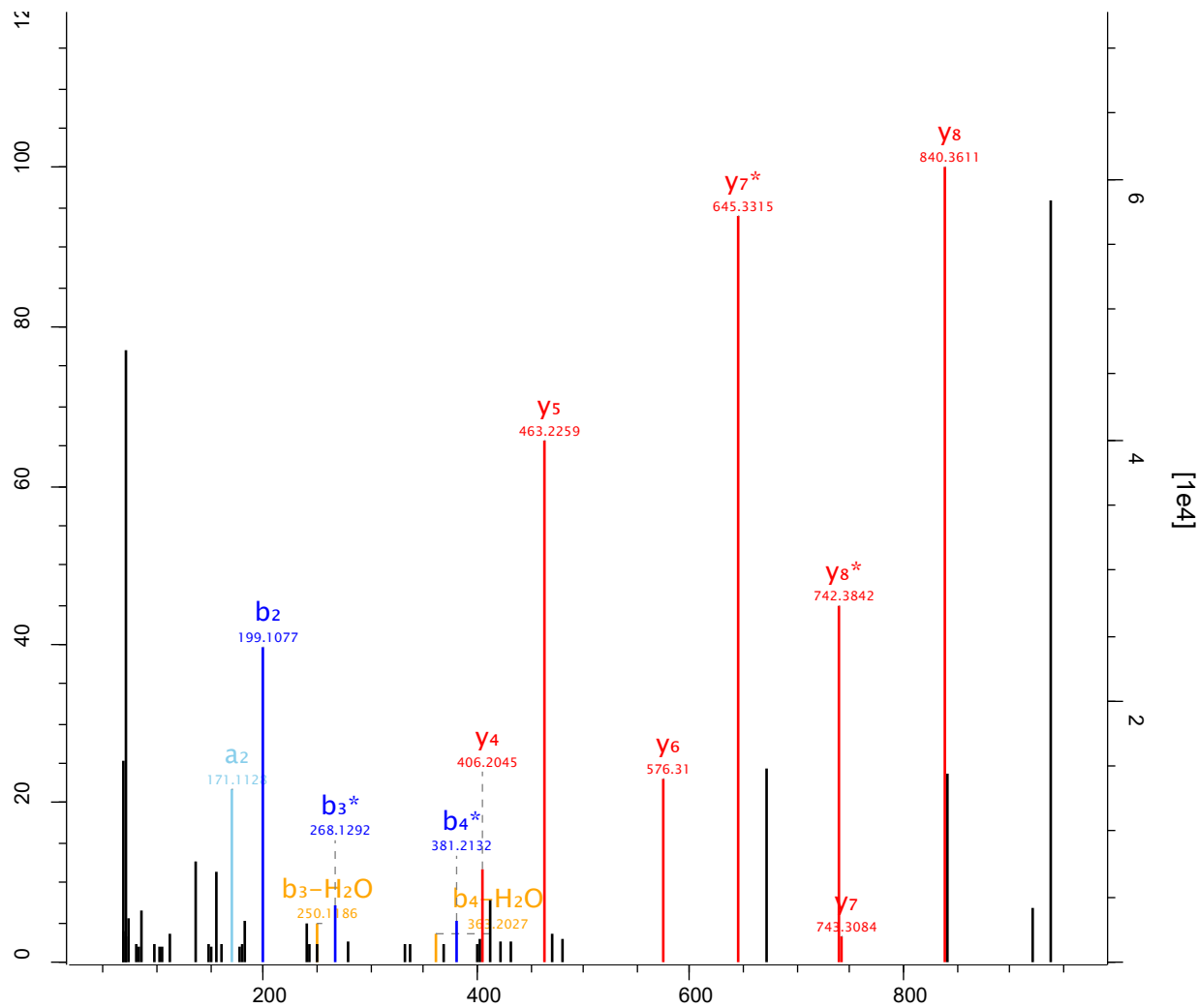
Raw file	Scan	Method	Score	m/z
sys_02_2	4786	FTMS; HCD	41.09	469.23



Raw file	Scan	Method	Score	m/z
sys_02_2	4860	FTMS; HCD	50.09	617.79



Raw file	Scan	Method	Score	m/z
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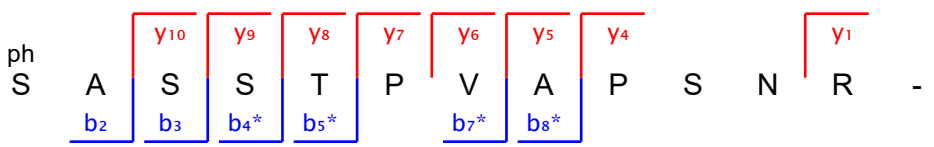
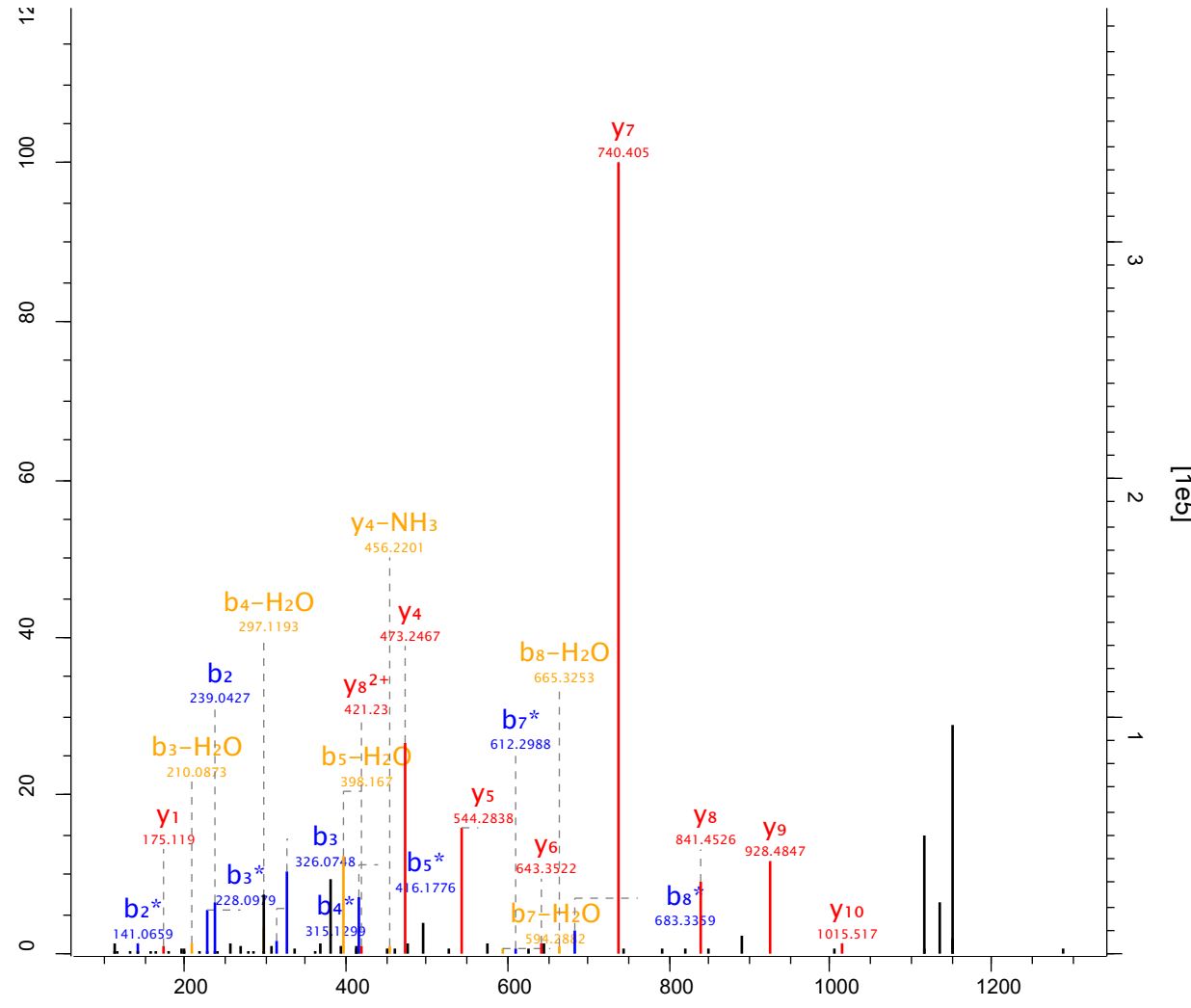


- T P S L G G S S R -

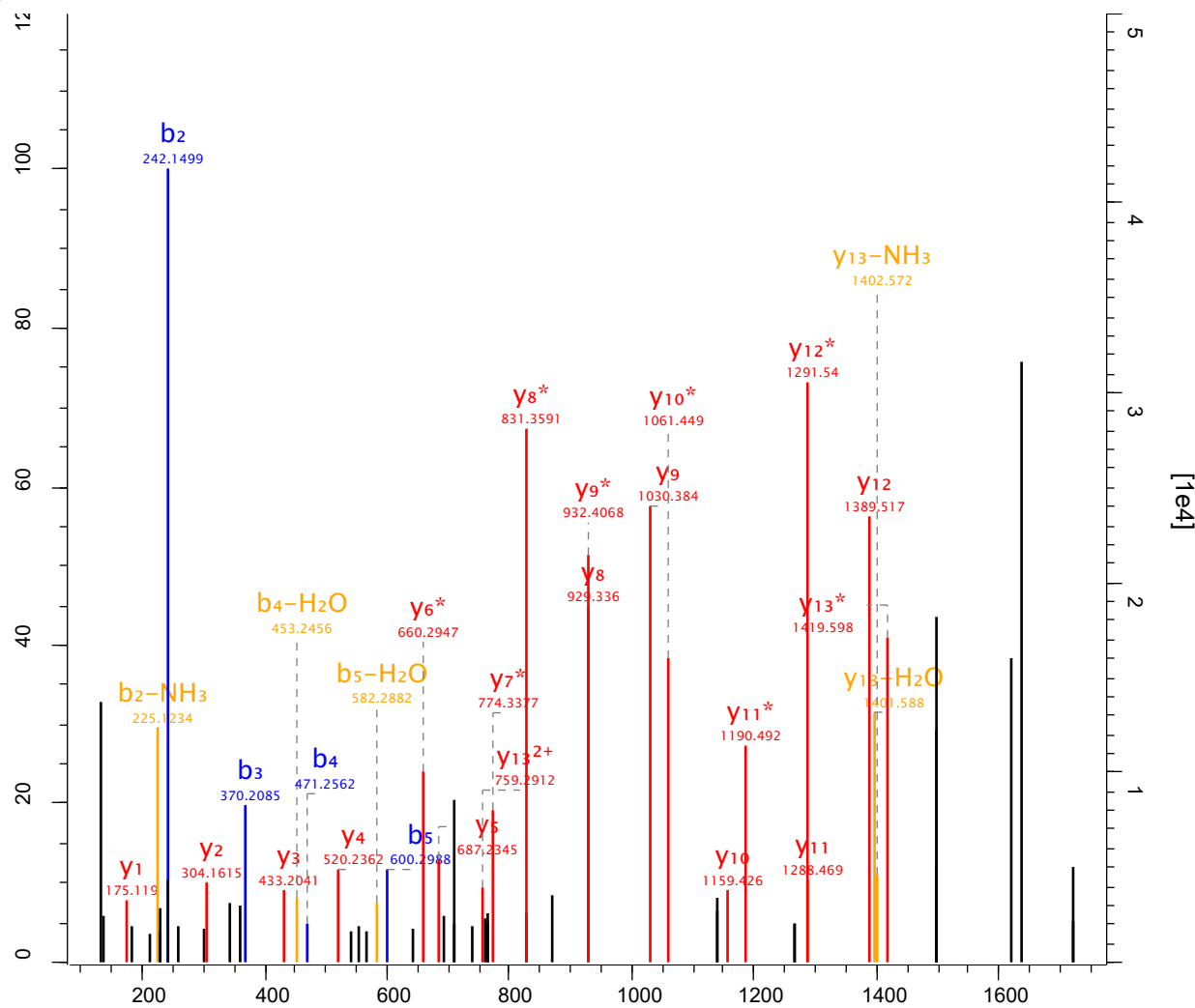
y8
y7
ph
y6
y5
y4

b2
b3*
b4*

Raw file Scan Method Score m/z
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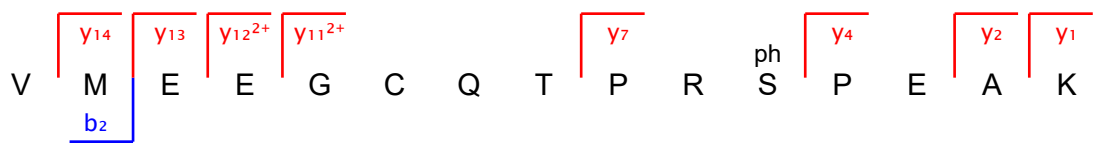
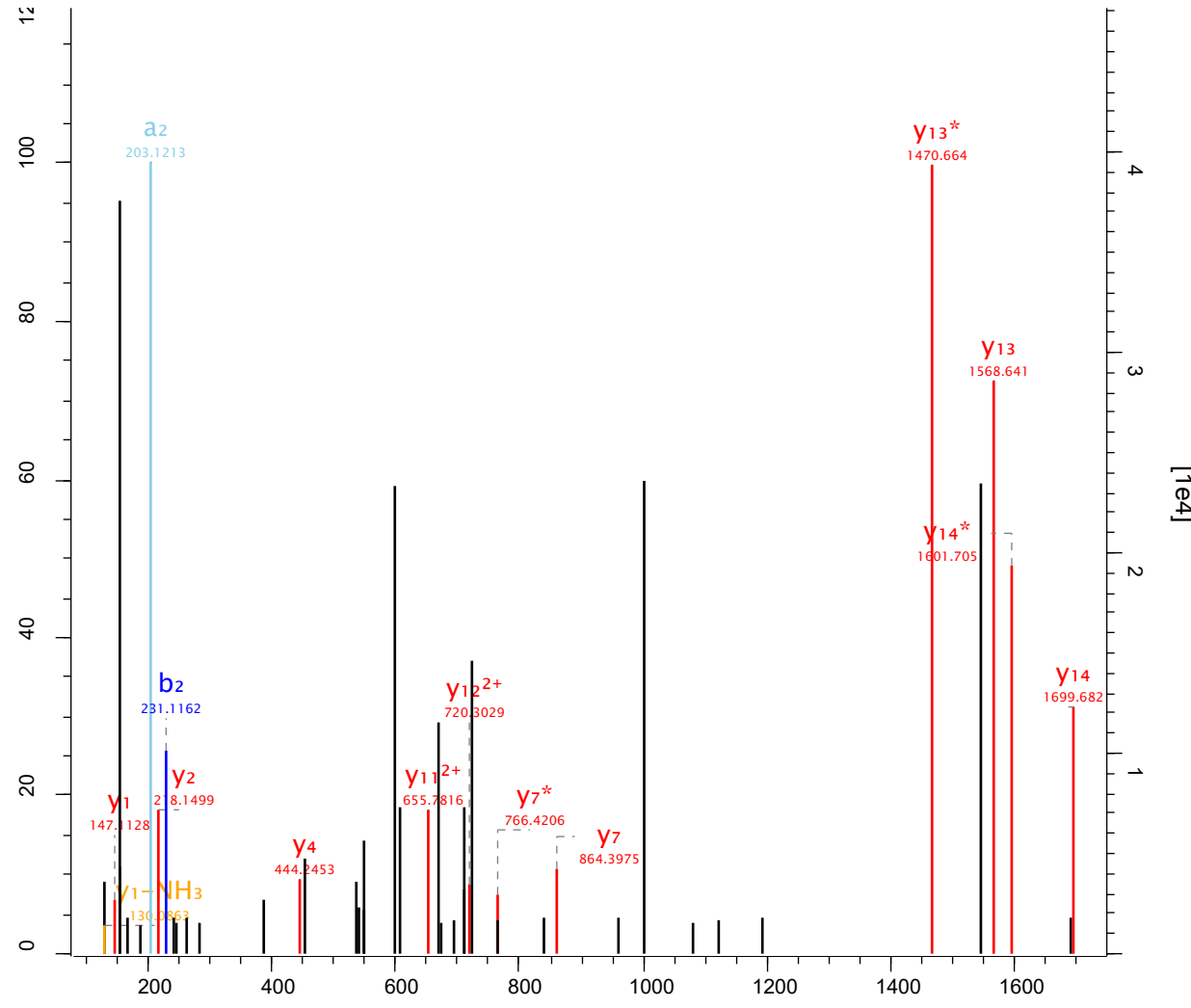


Raw file Scan Method Score m/z
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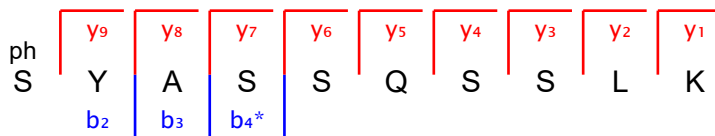
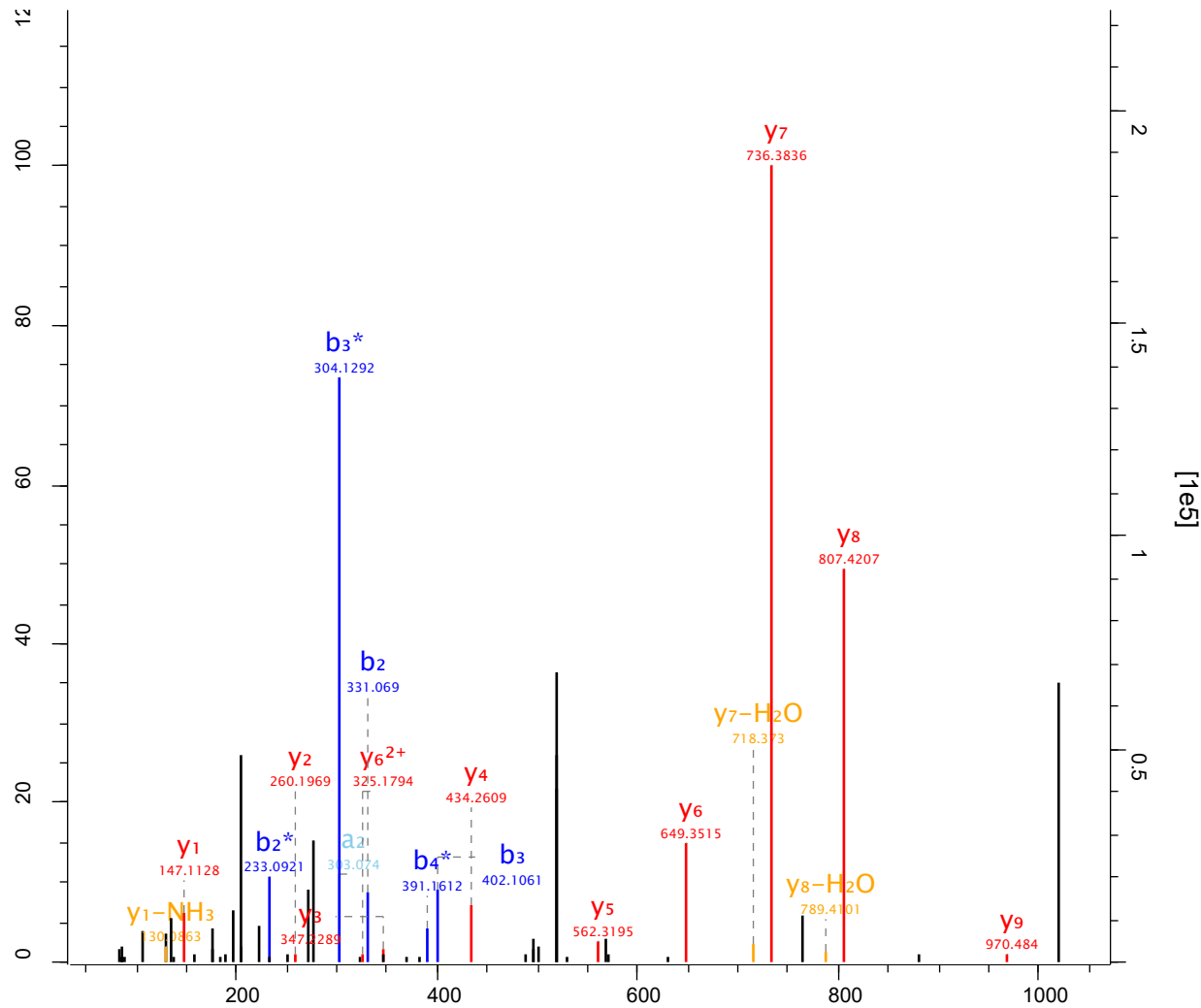


- L Q Q T E E T G N A S S E E R
 - b2 b3 b4 b5
 - y13* y12 y11 y10 y9 y8 y7* y6* y5 ph y4 y3 y2 y1

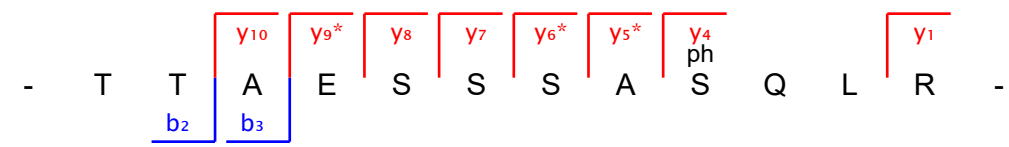
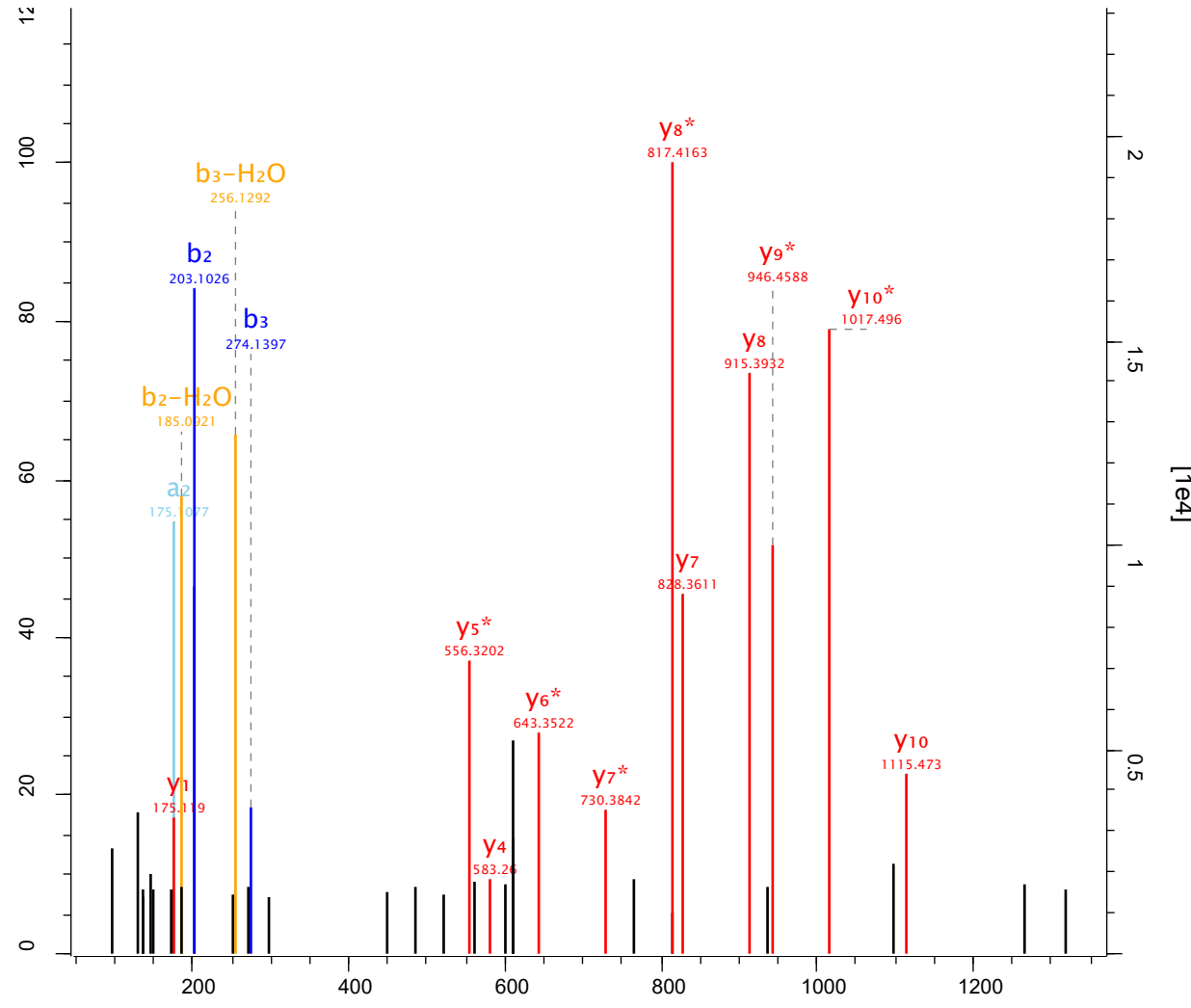
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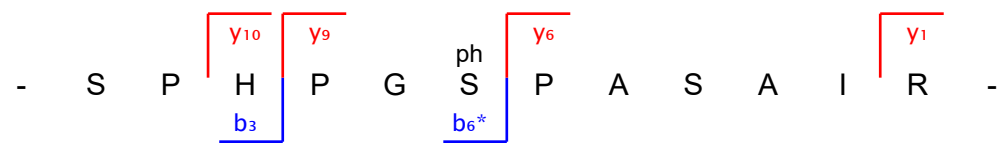
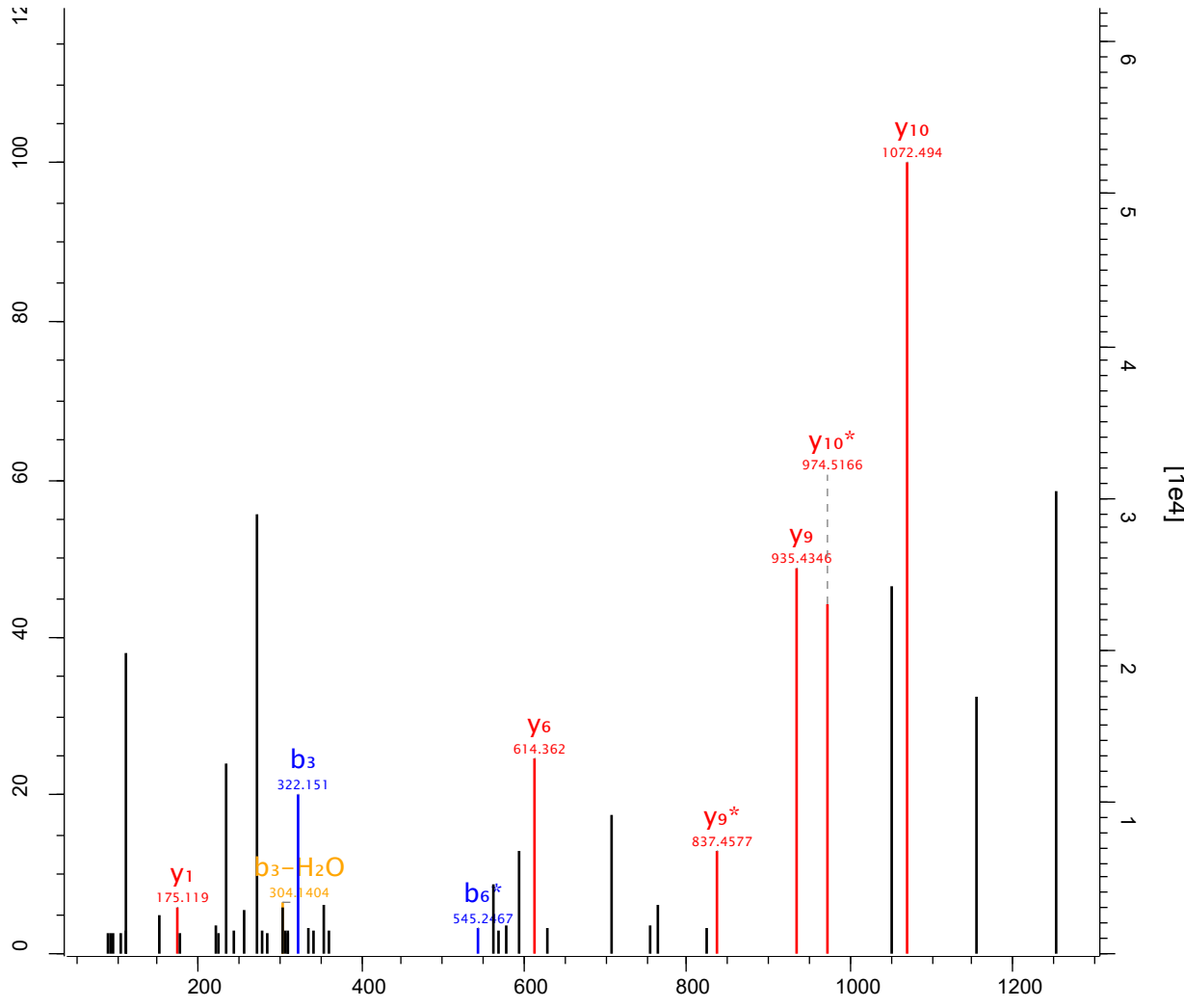
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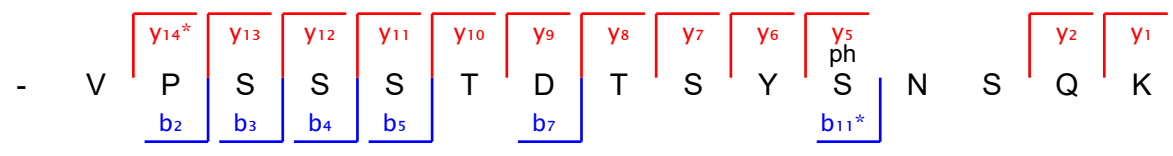
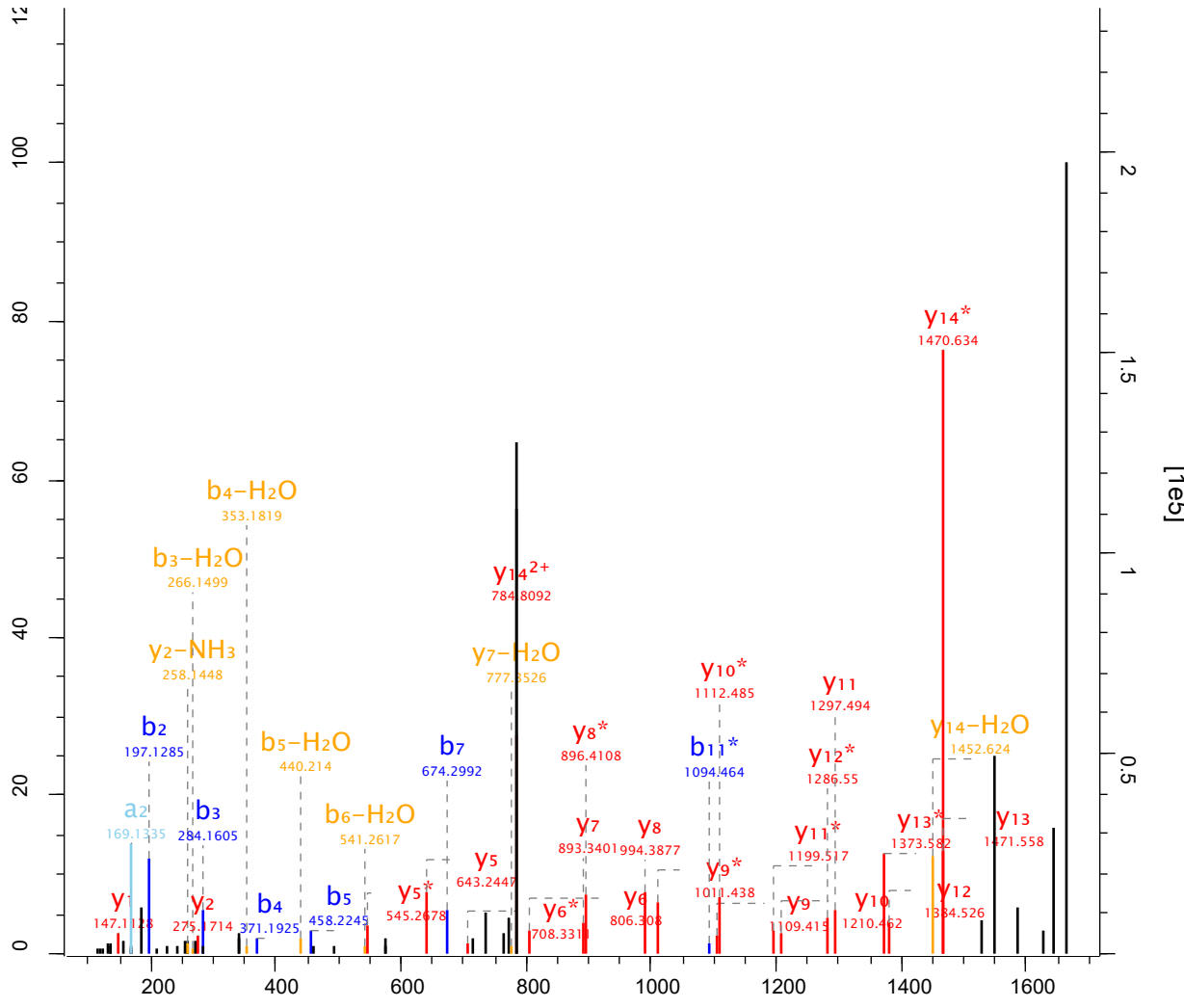
Raw file Scan Method Score m/z
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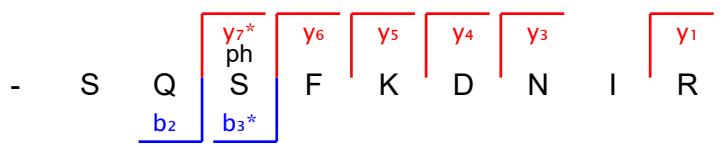
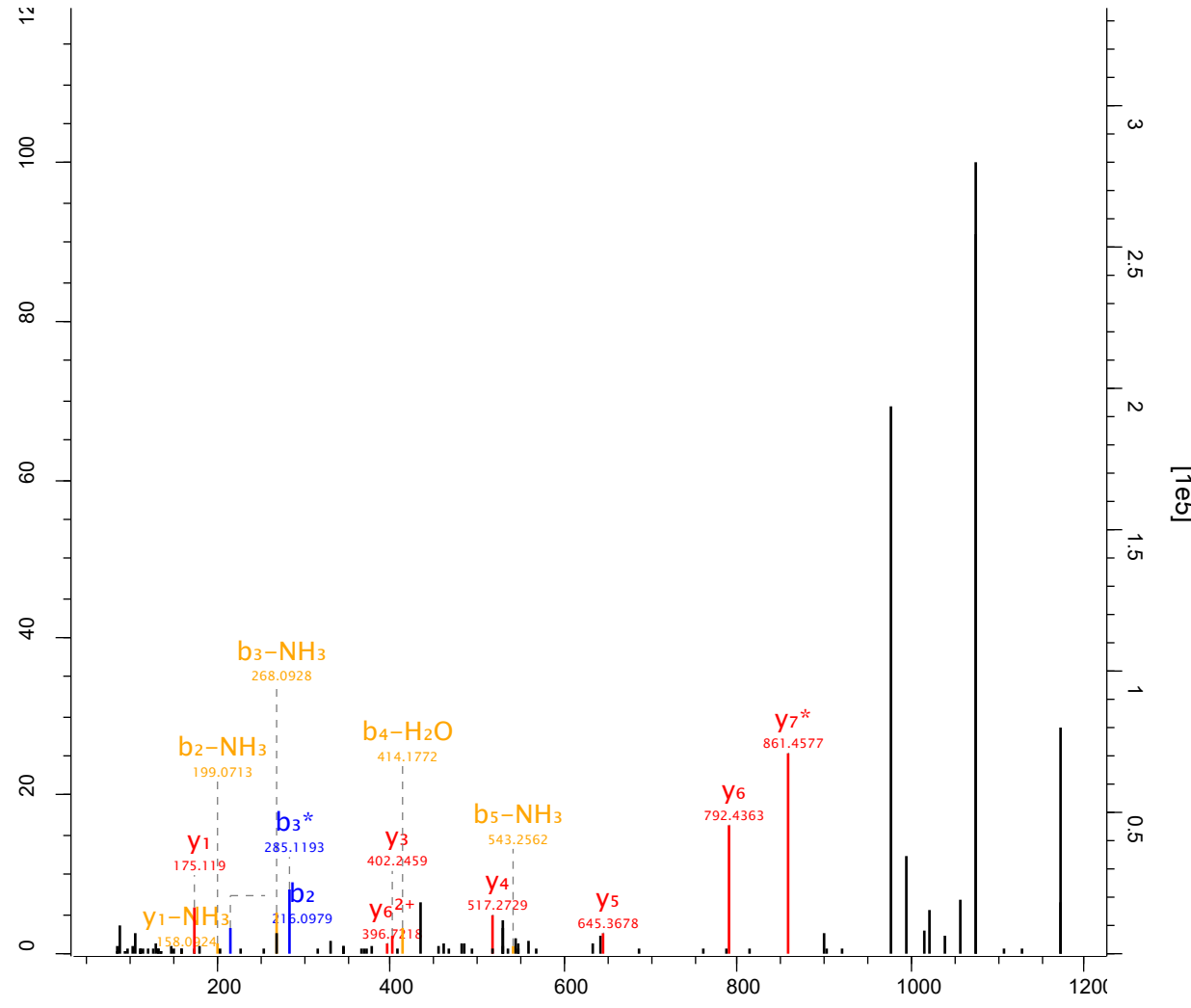
Raw file	Scan	Method	Score	m/z
sys_02_2	5210	FTMS; HCD	40.28	628.79



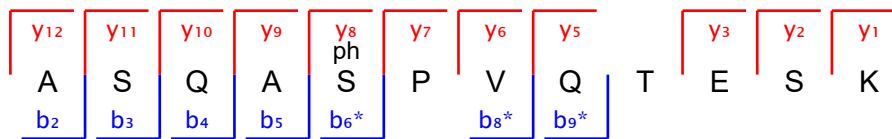
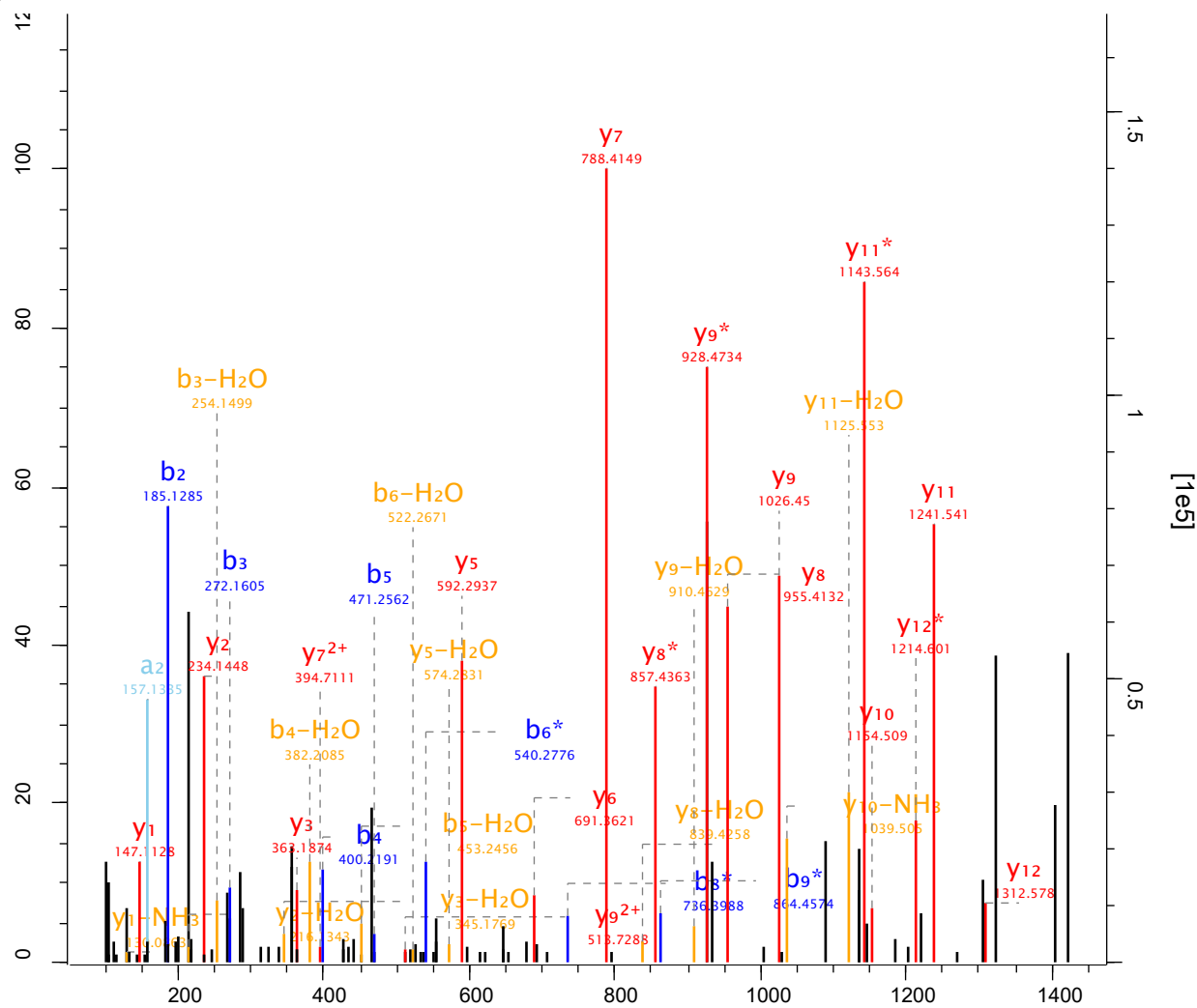
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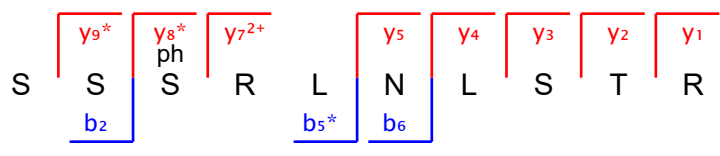
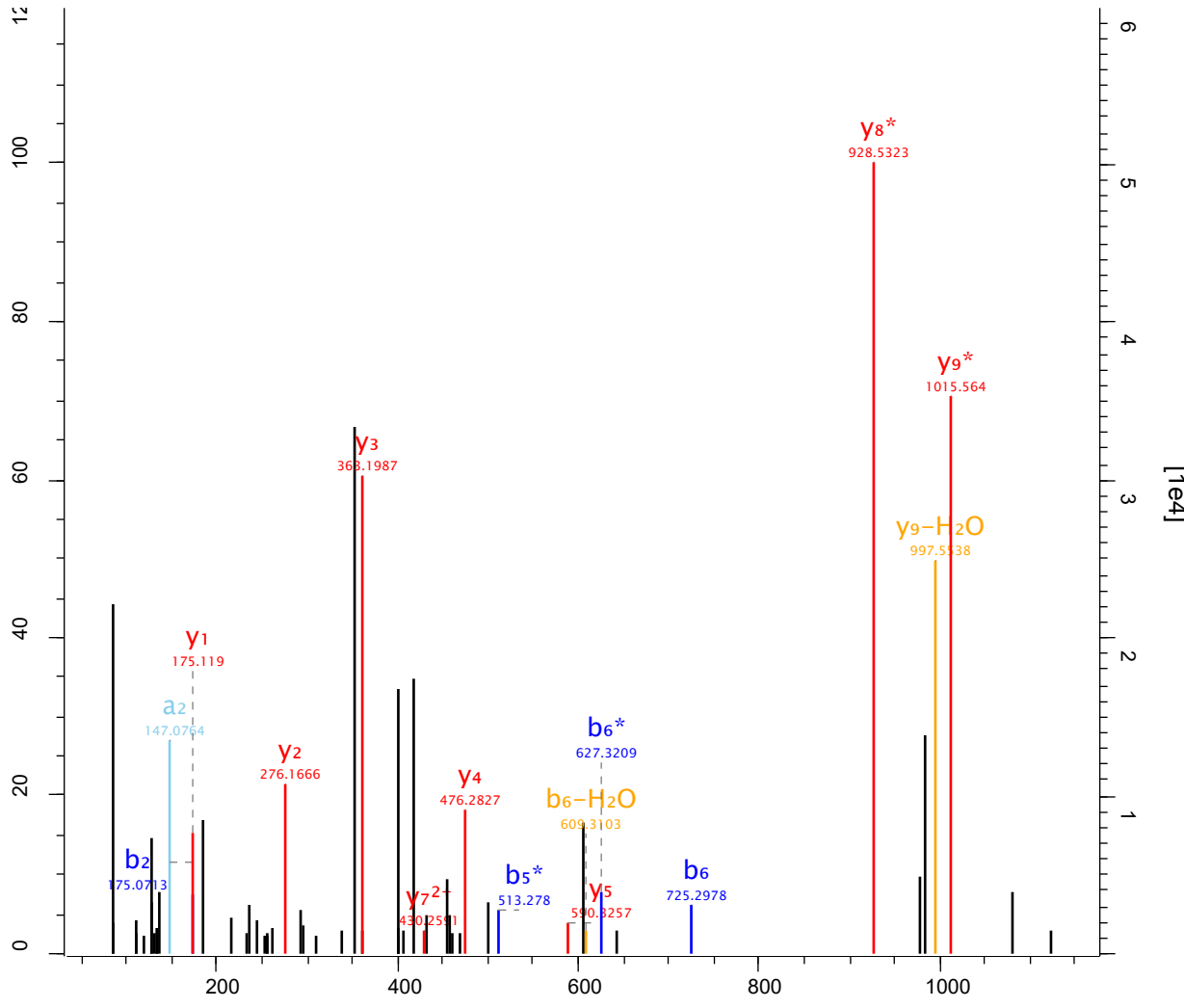
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sys_02_2	5443	FTMS; HCD	52.25	588.22



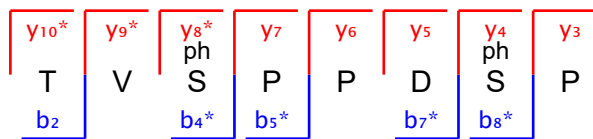
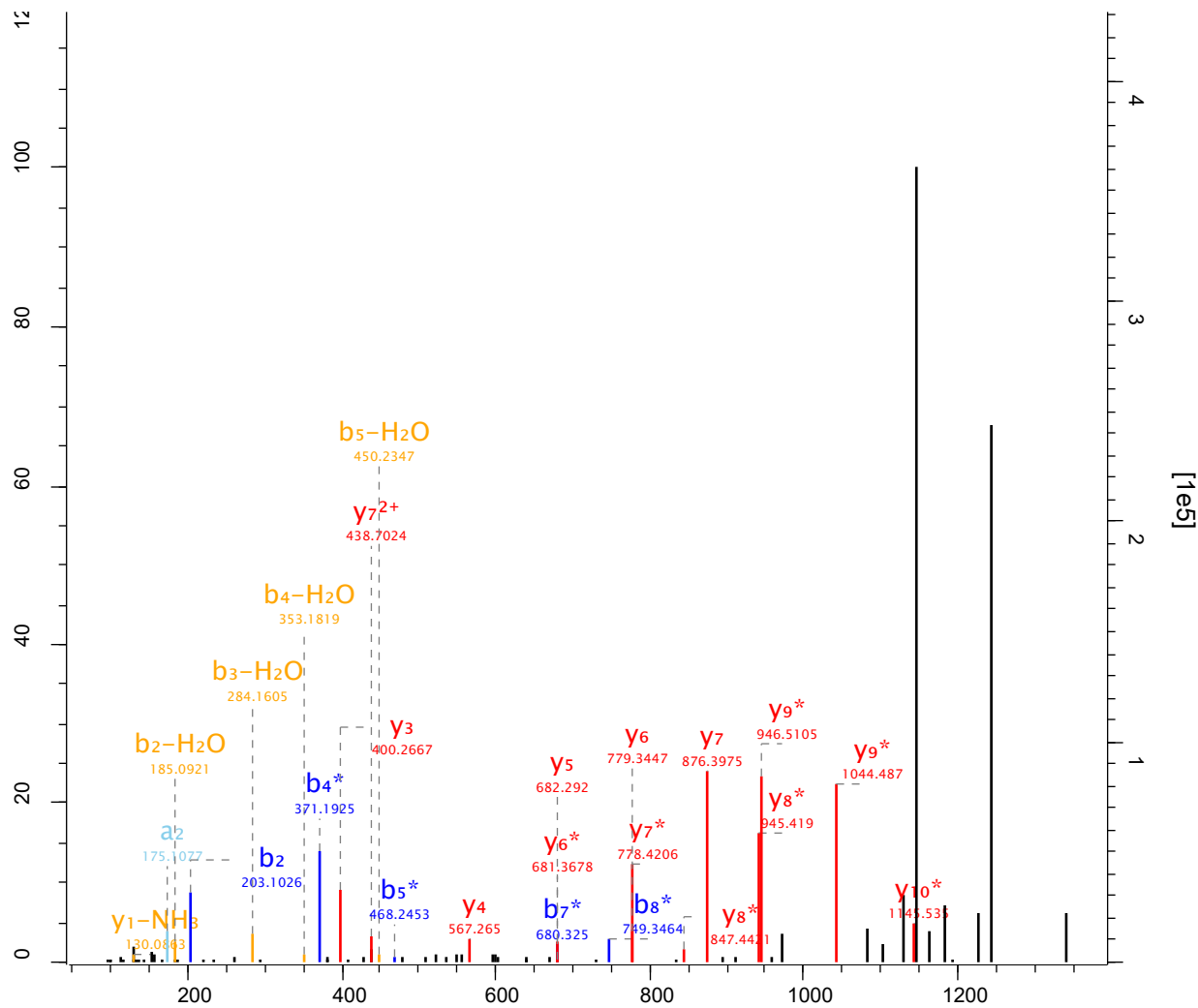
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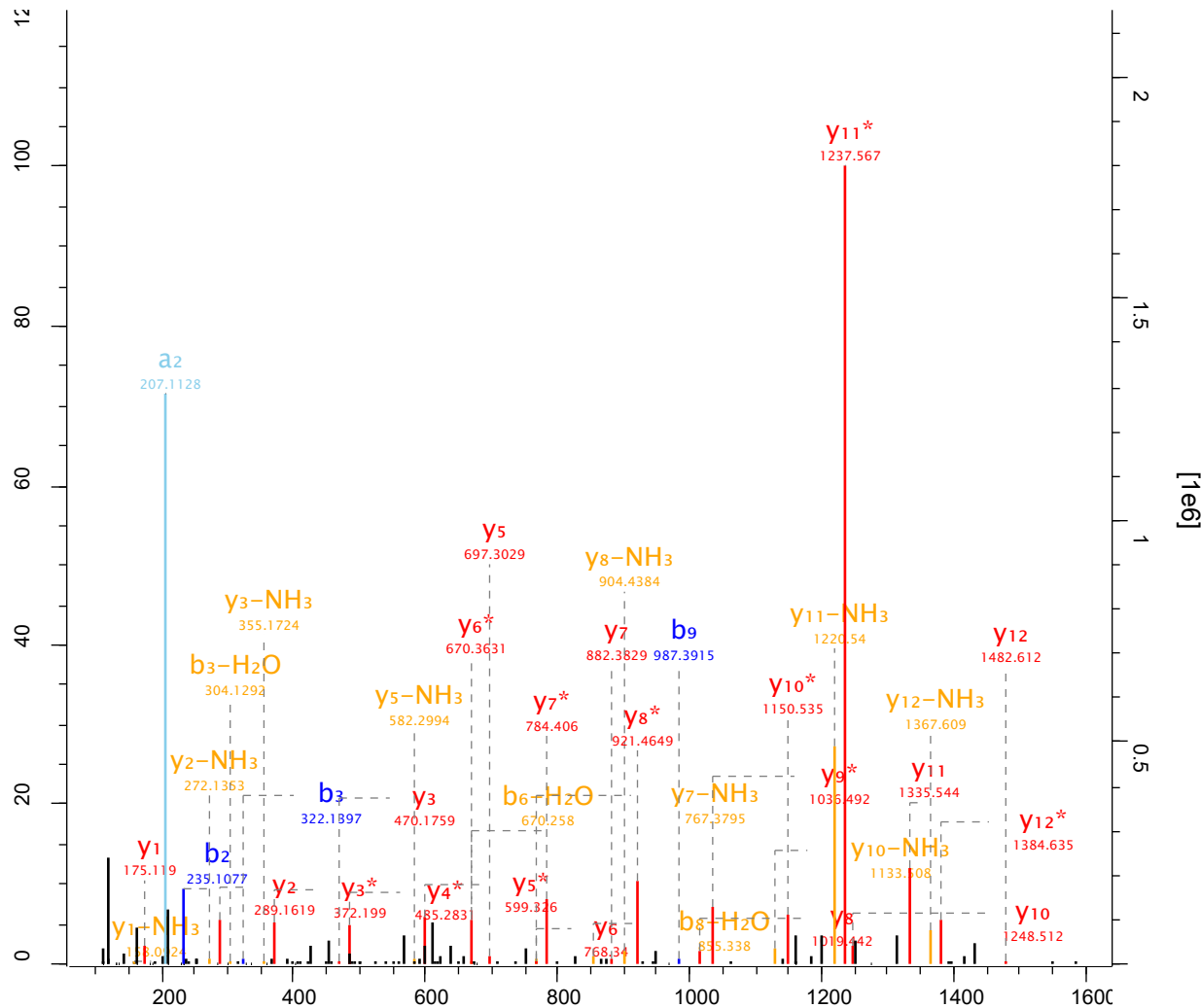
Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
 sys_02_2 5622 FTMS; HCD 102.65 672.78



Raw file Scan Method Score m/z
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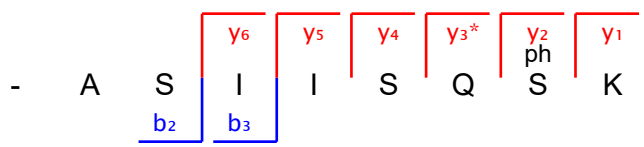
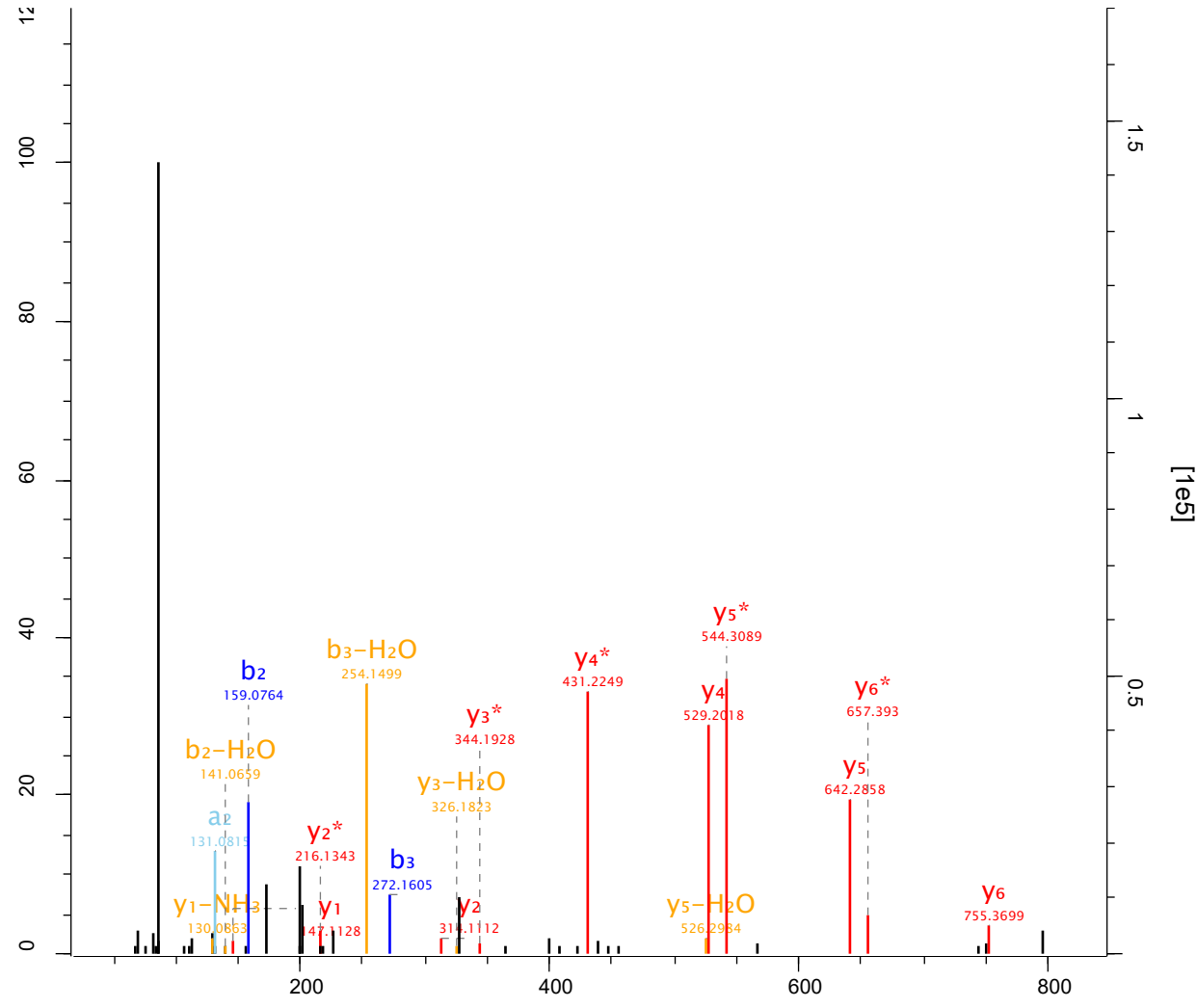


- S F S N D H N A N L T N R -

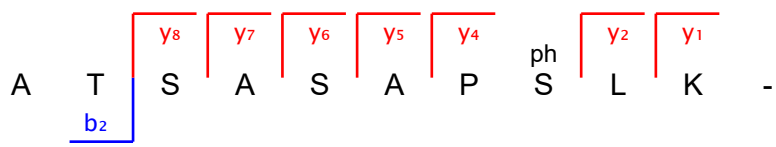
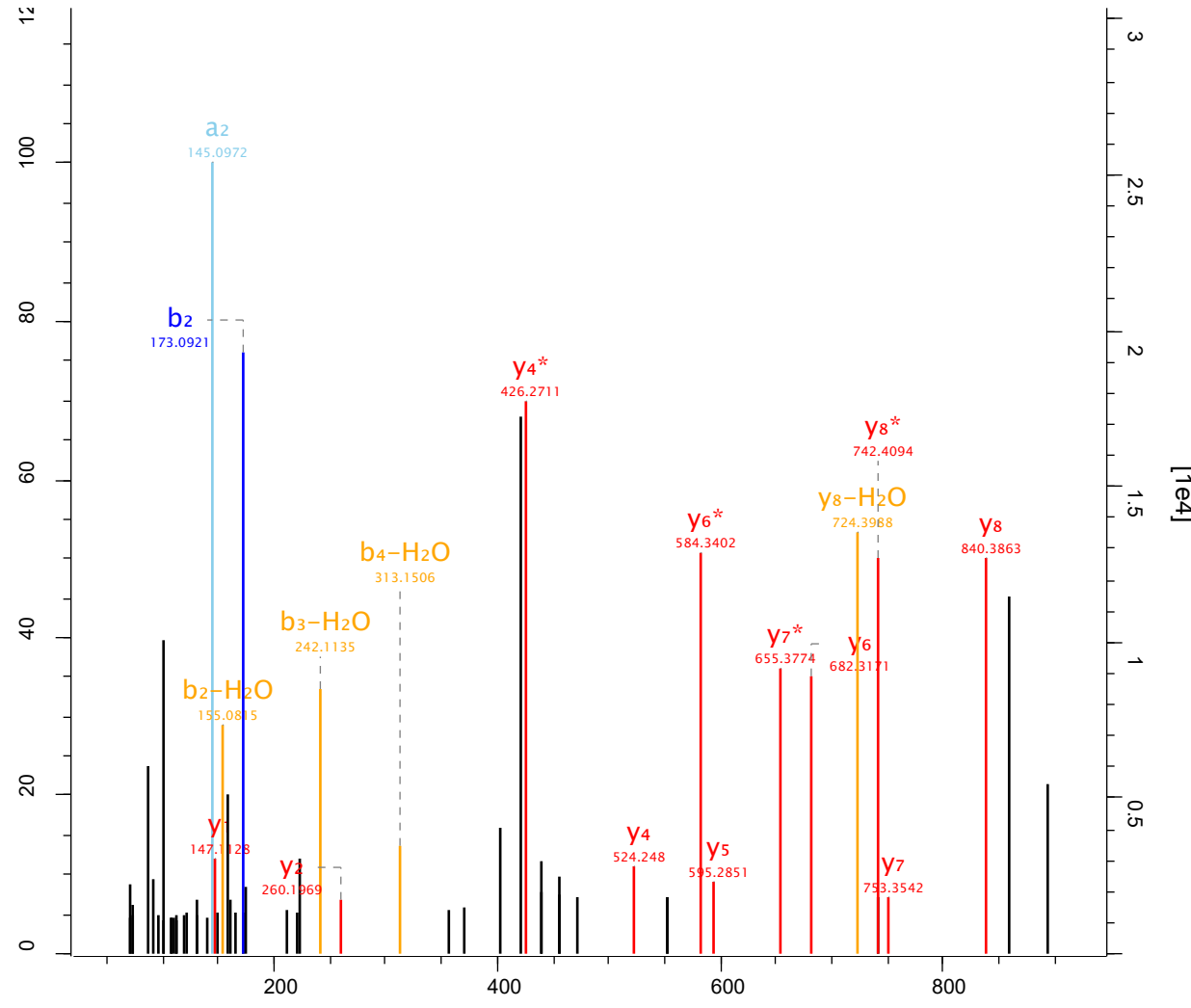
b₂
b₃
b₉

y₁₂
y₁₁
y₁₀
y₉*
y₈
y₇
y₆
y₅
y₄*
y₃ph
y₂
y₁

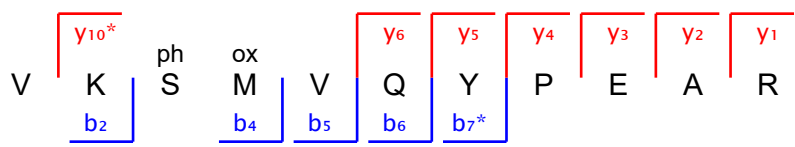
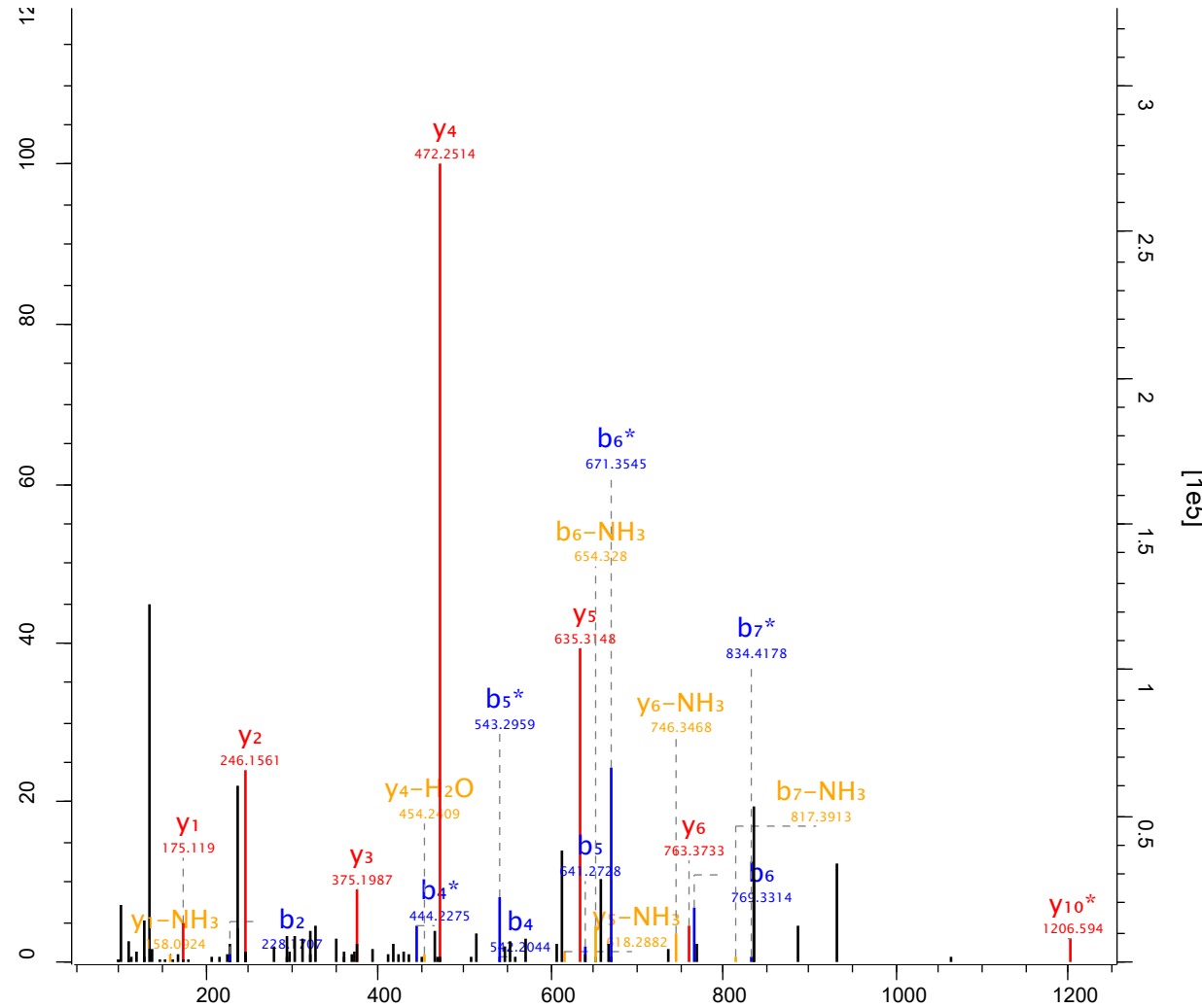
Raw file	Scan	Method	Score	m/z
sys_02_2	5815	FTMS; HCD	74.96	457.22



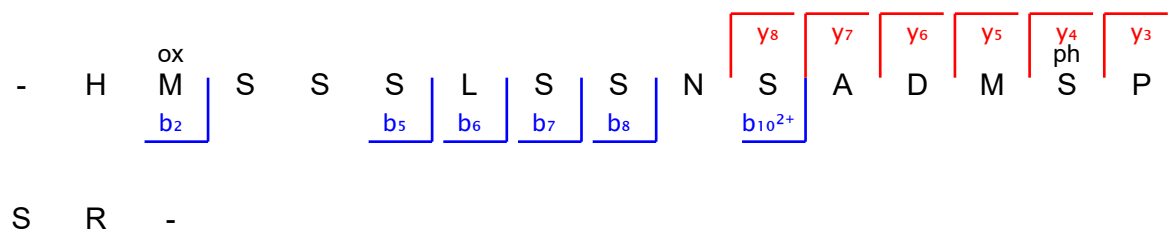
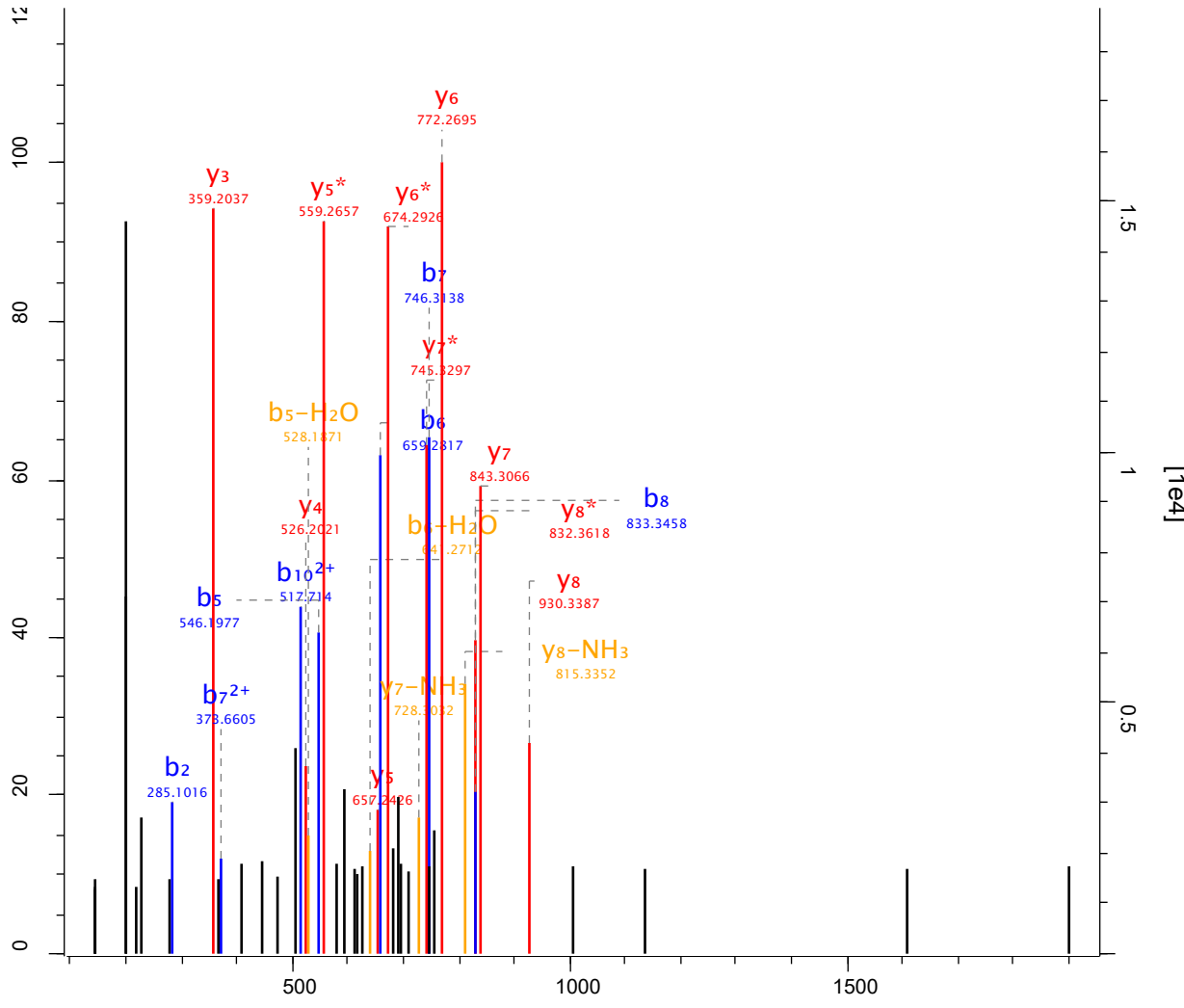
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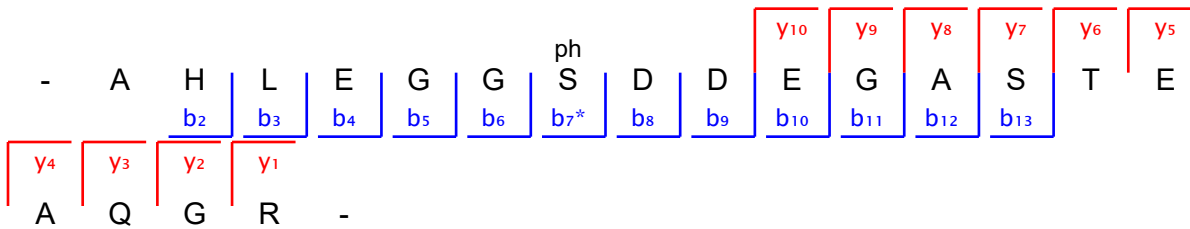
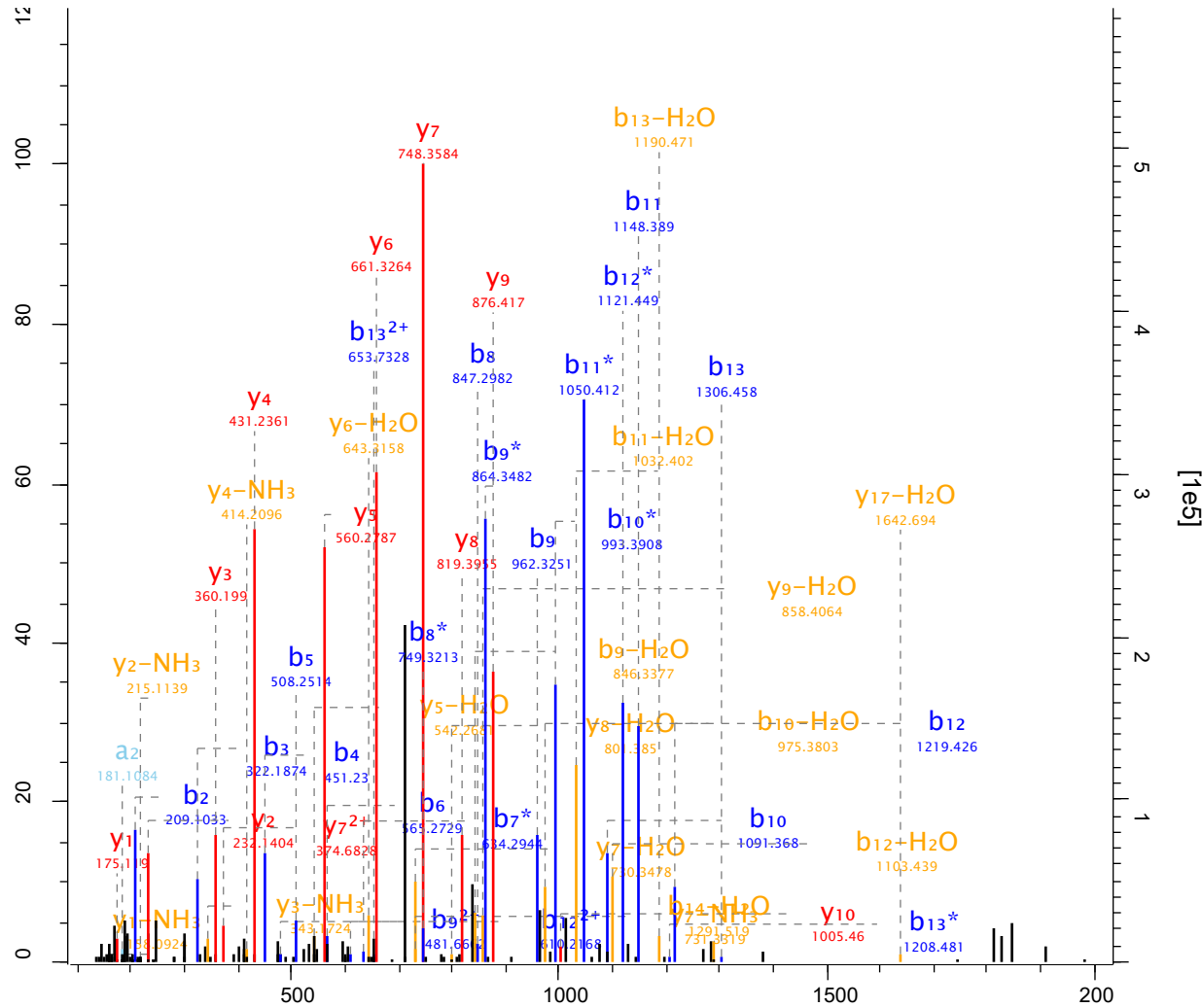
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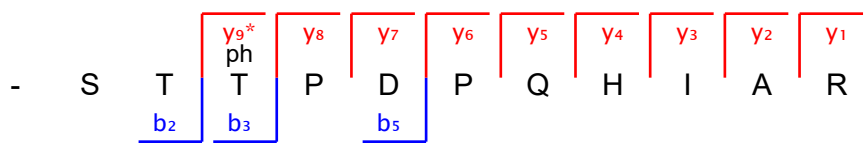
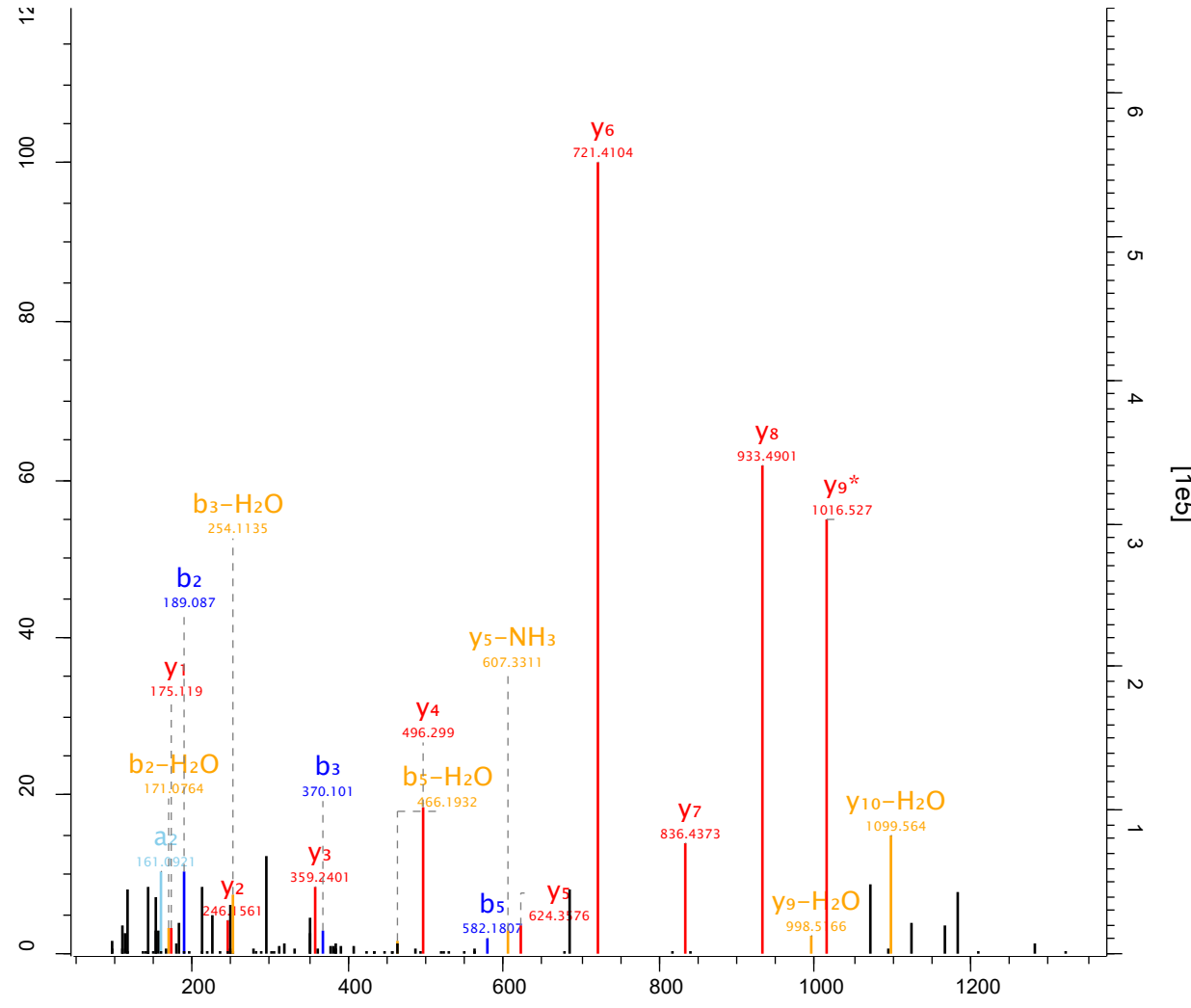
Raw file Scan Method Score m/z
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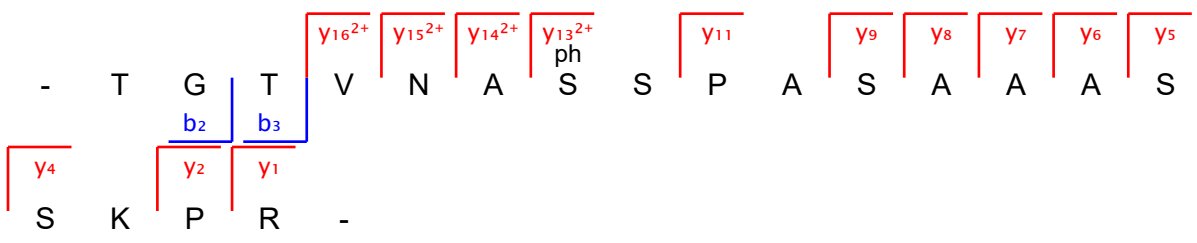
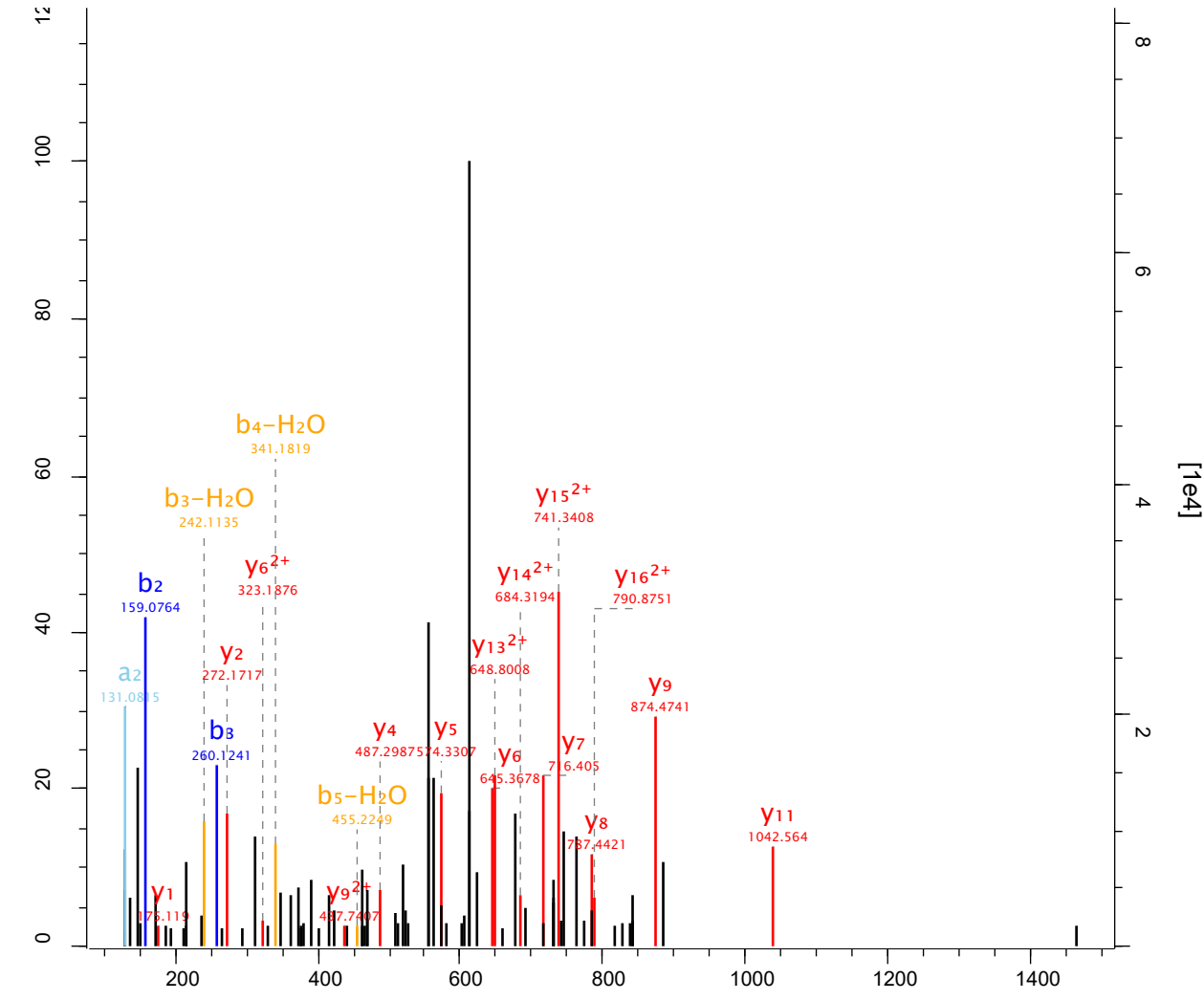
Raw file Scan Method Score m/z
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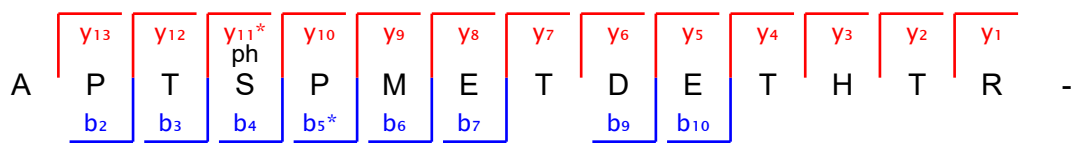
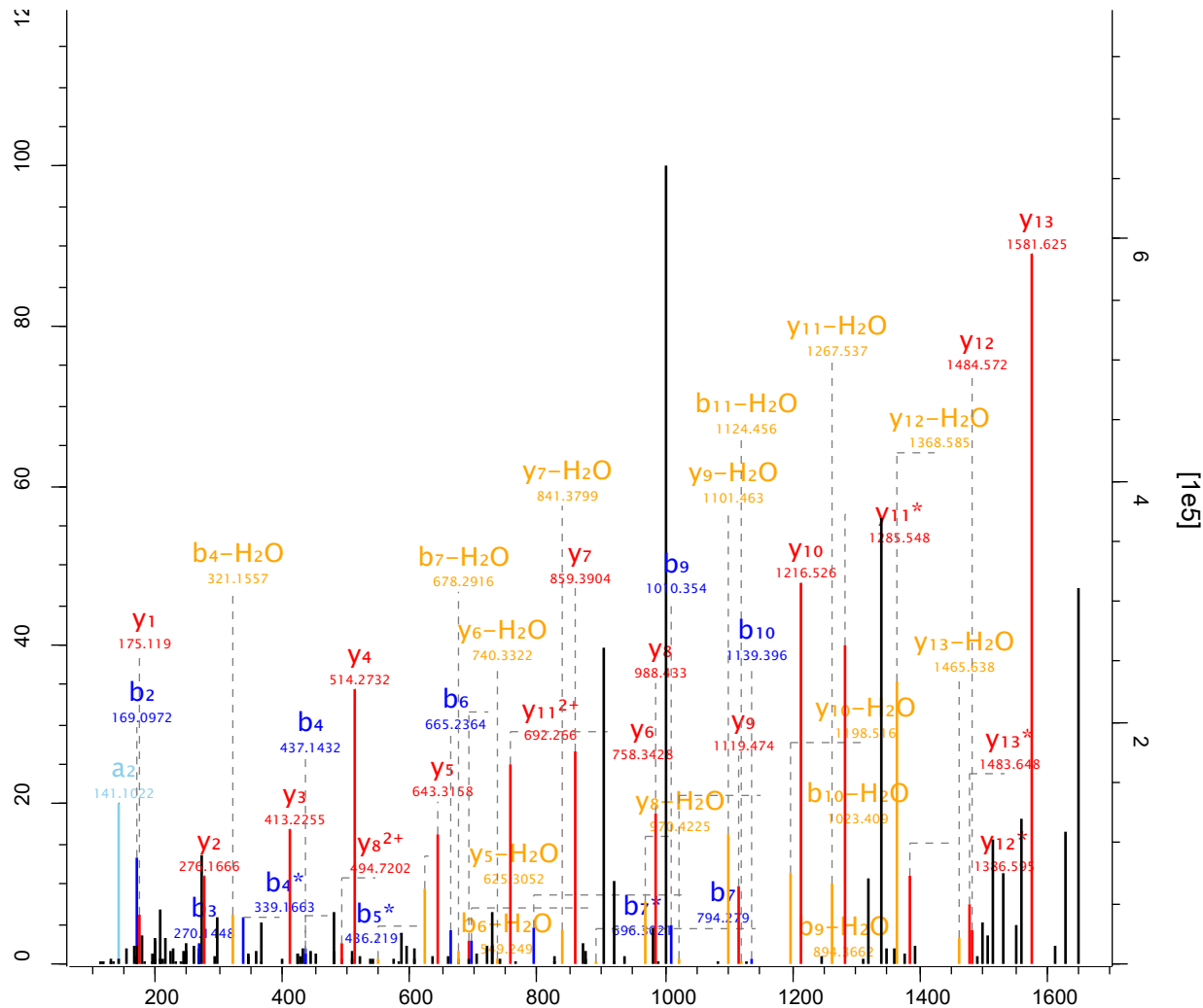
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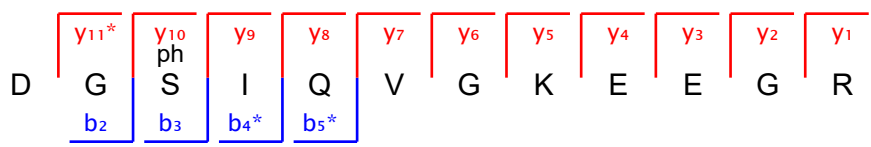
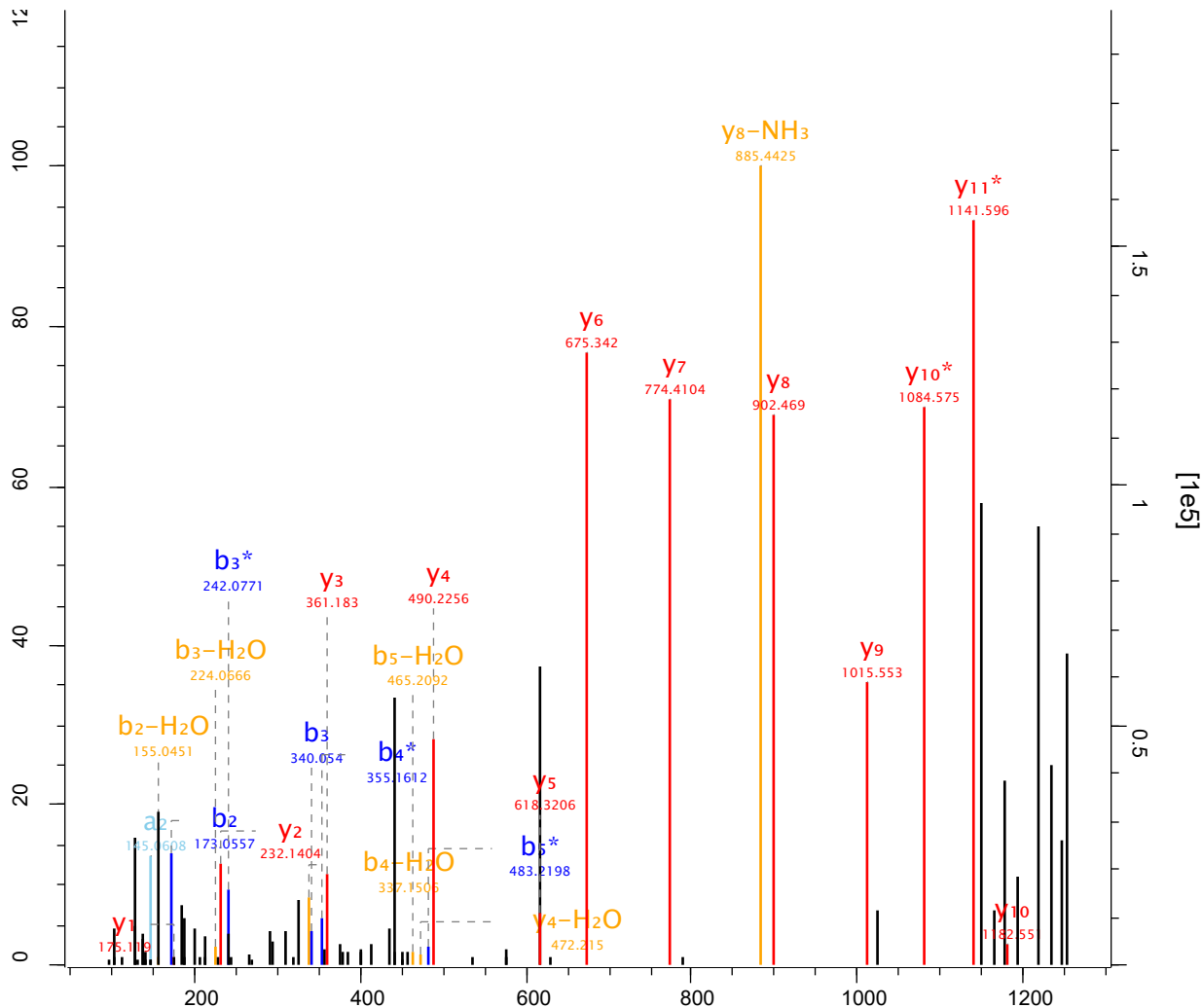
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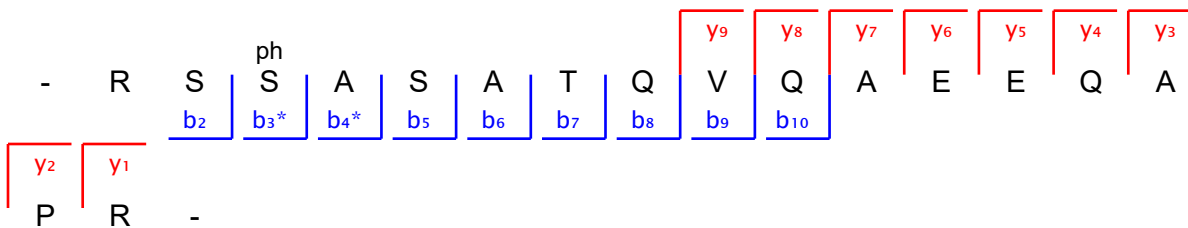
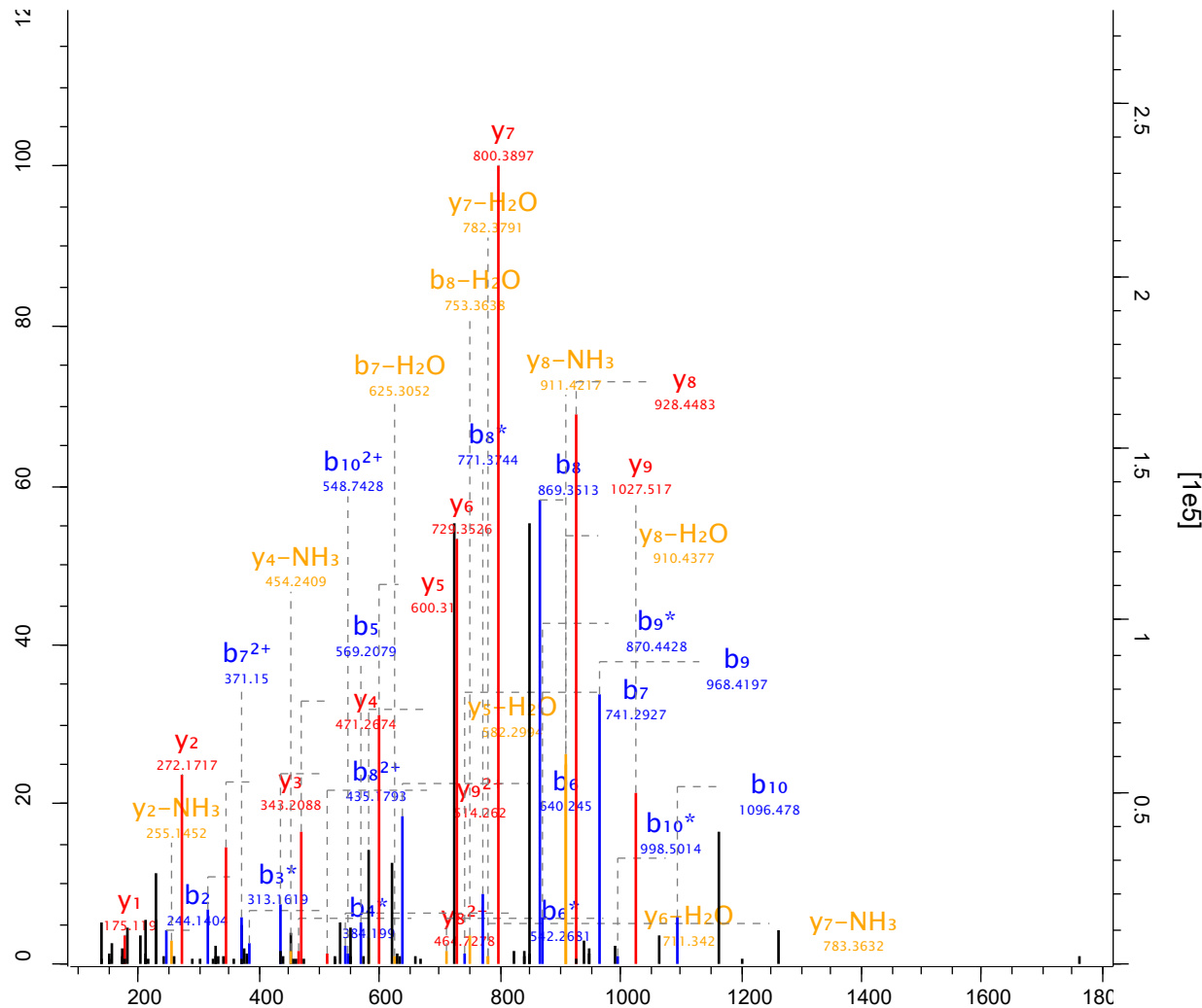
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 sys_02_2 6086 FTMS; HCD 211.12 551.56



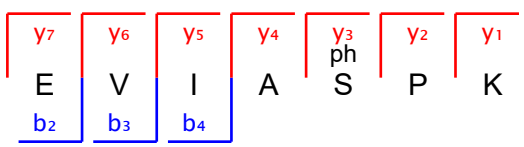
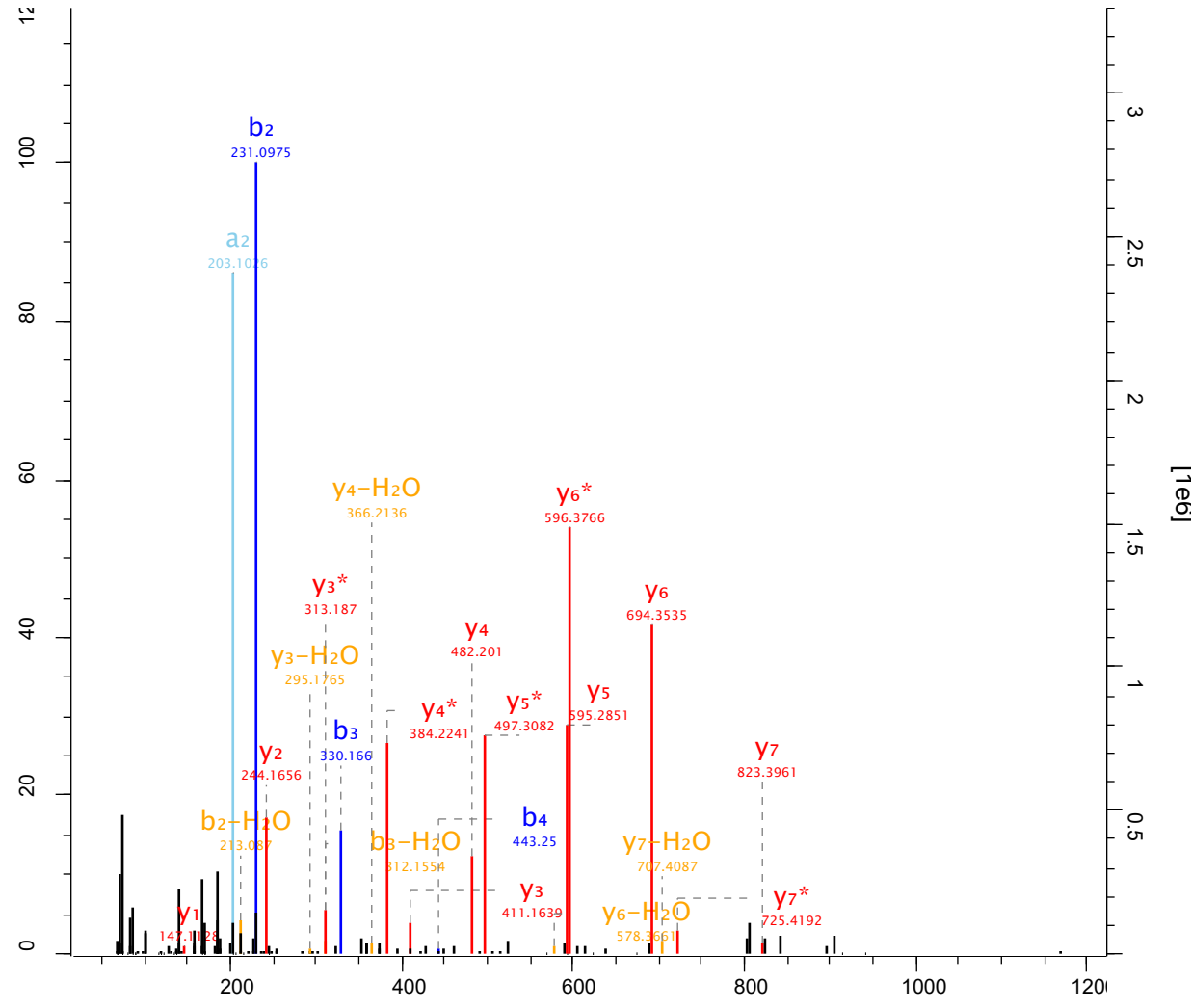
Raw file Scan Method Score m/z
 sys_02_2 6103 FTMS; HCD 84.51 452.2



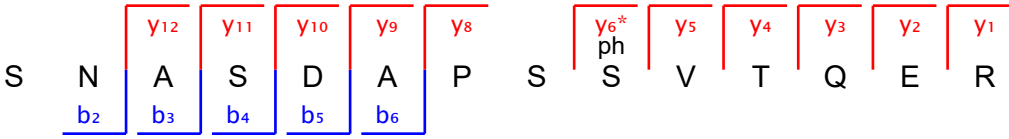
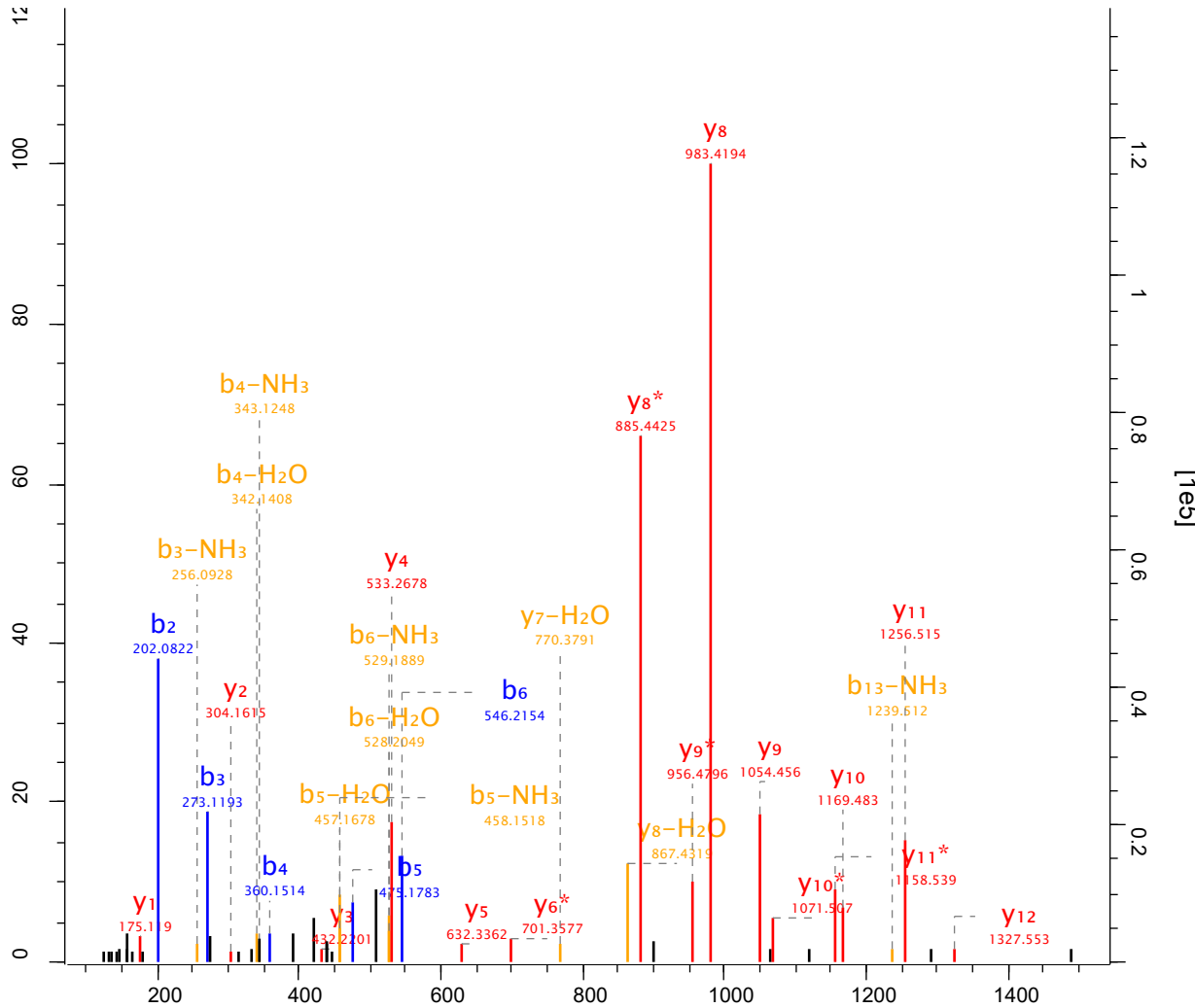
Raw file Scan Method Score m/z
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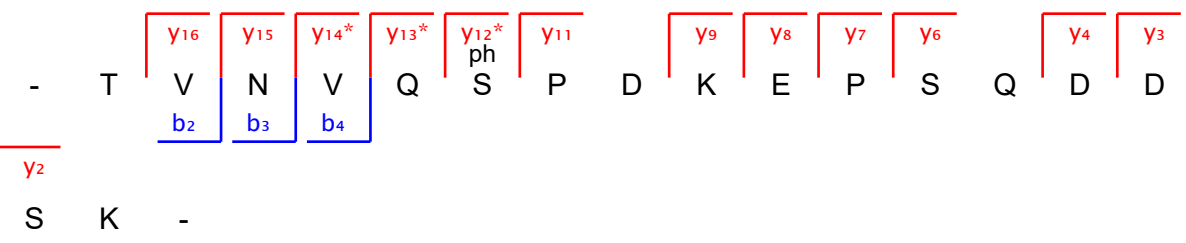
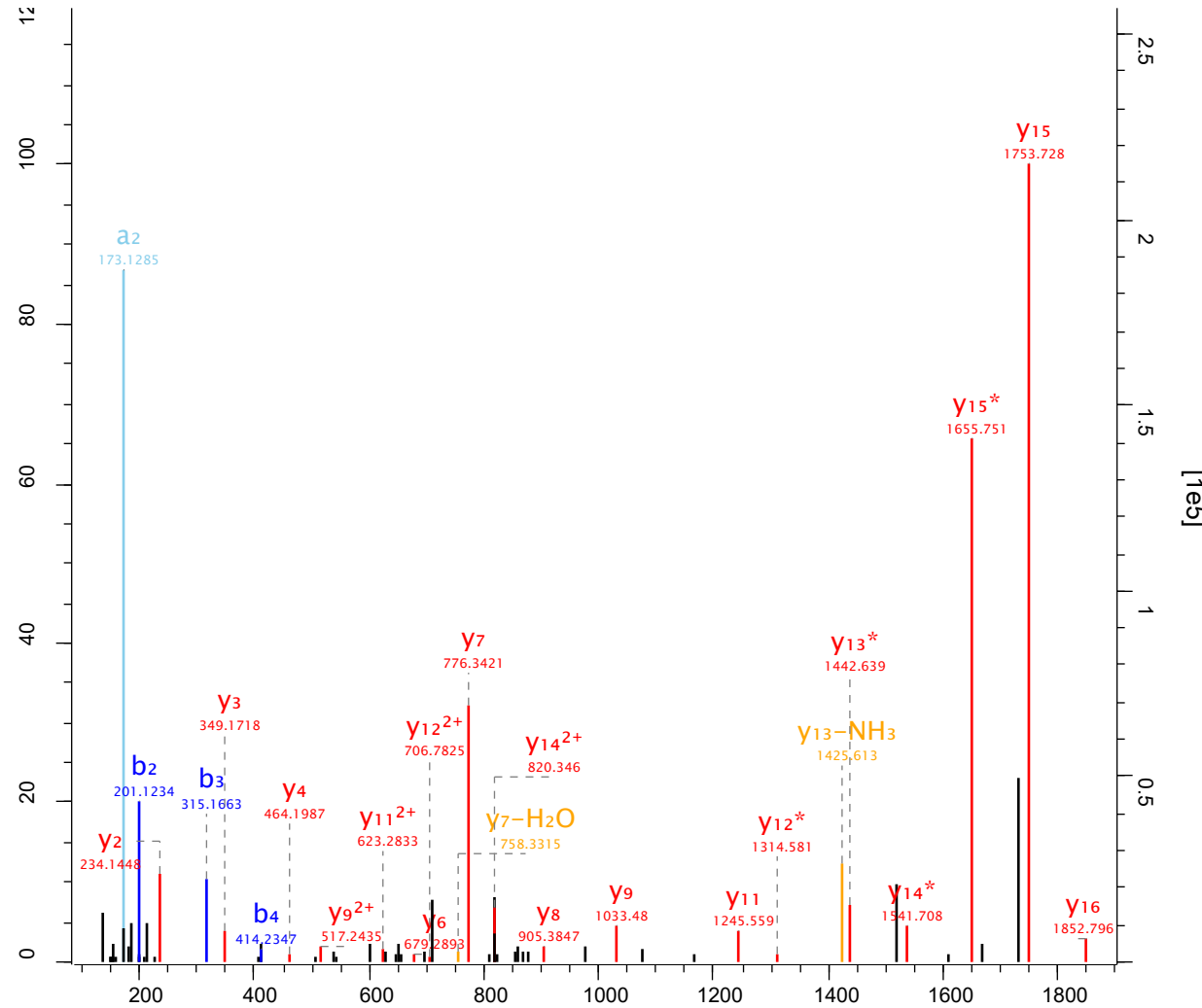
Raw file Scan Method Score m/z
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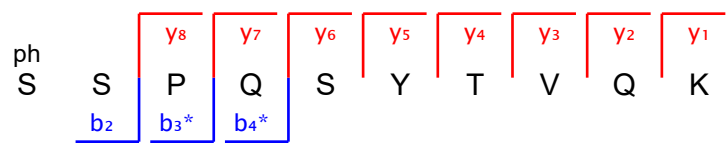
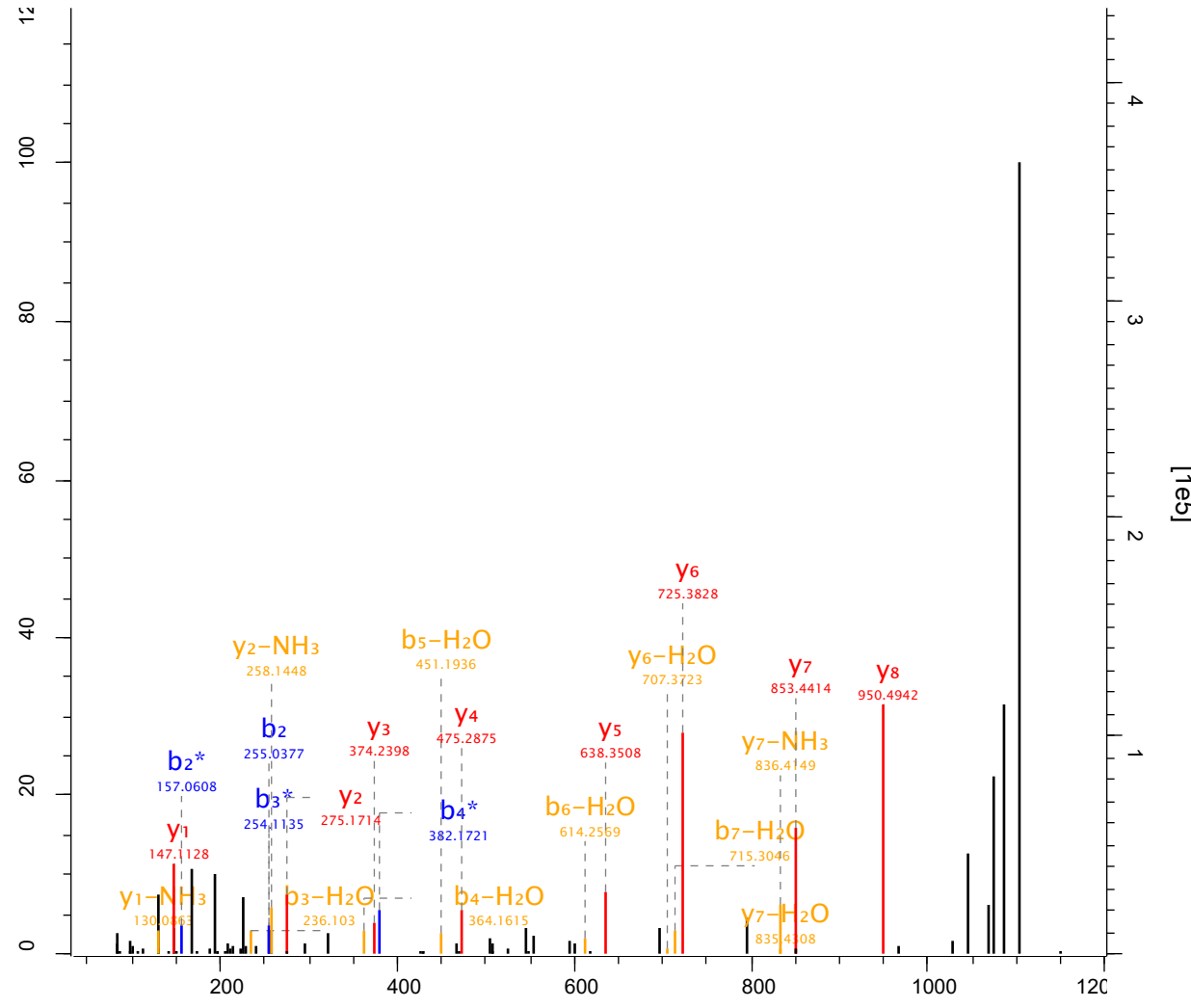
Raw file Scan Method Score m/z
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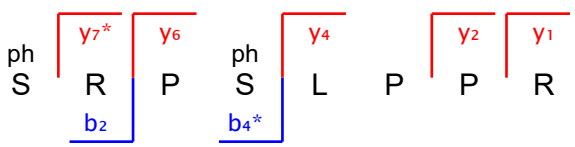
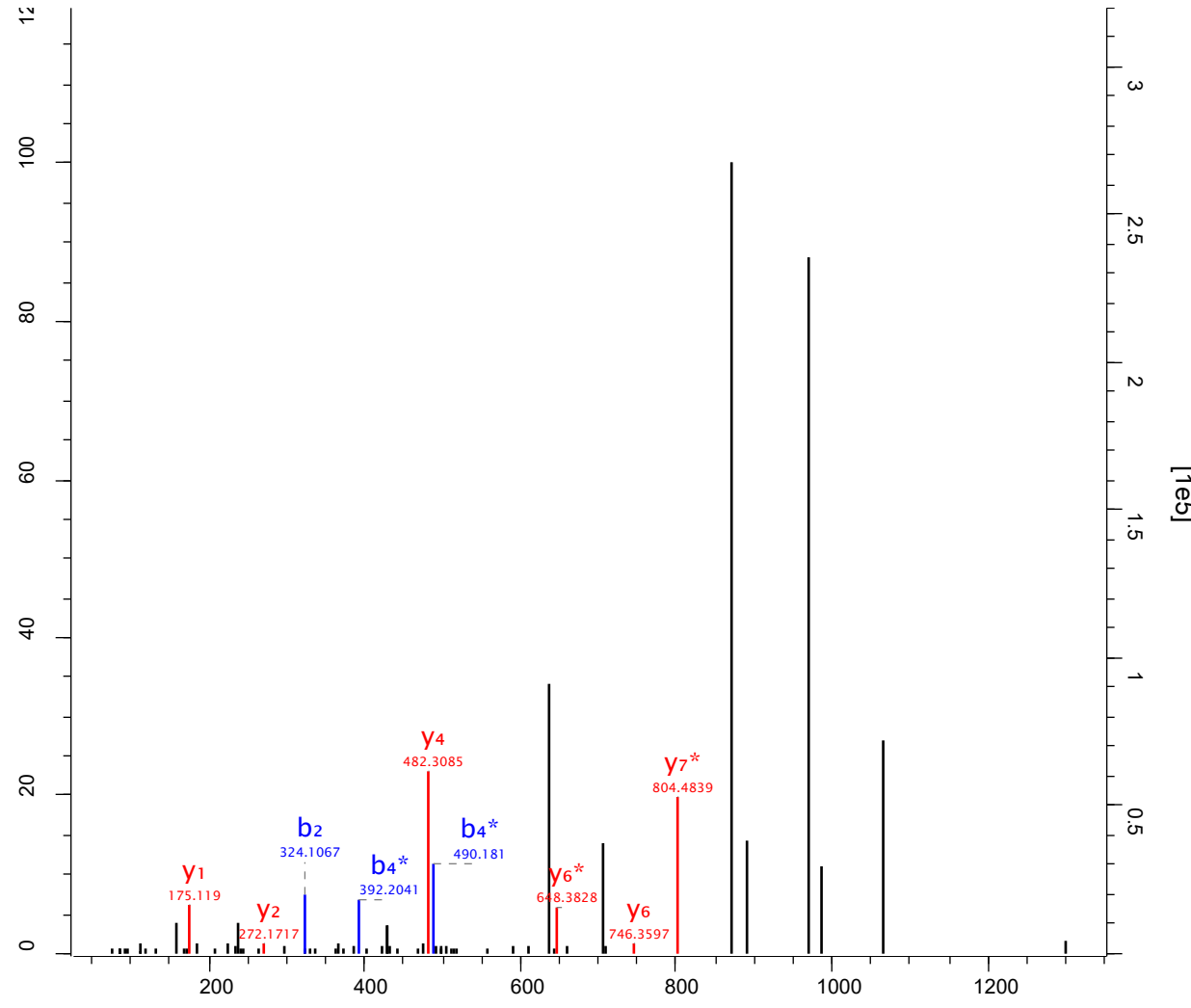
Raw file Scan Method Score m/z
 sys_02_2 6226 FTMS; HCD 107.78 651.95



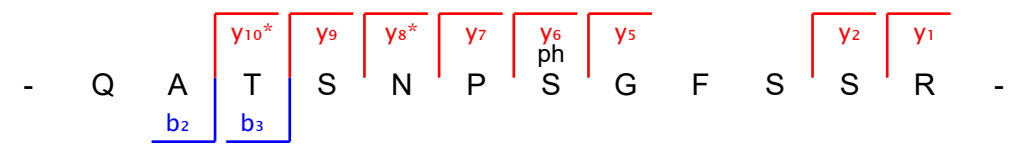
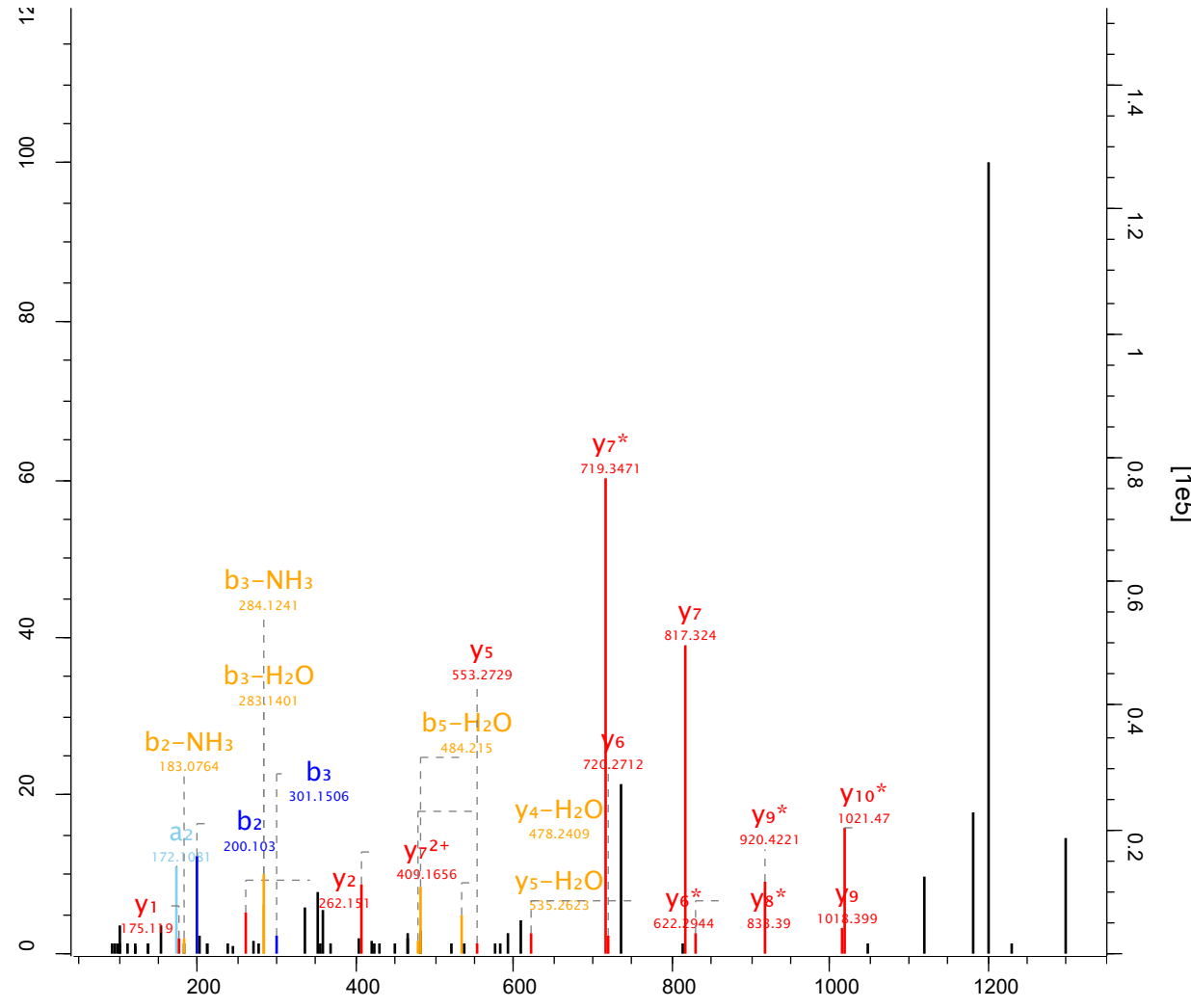
Raw file Scan Method Score m/z
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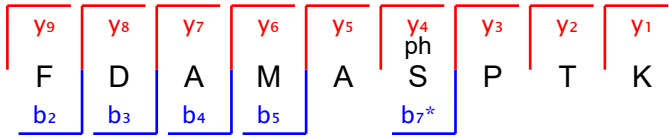
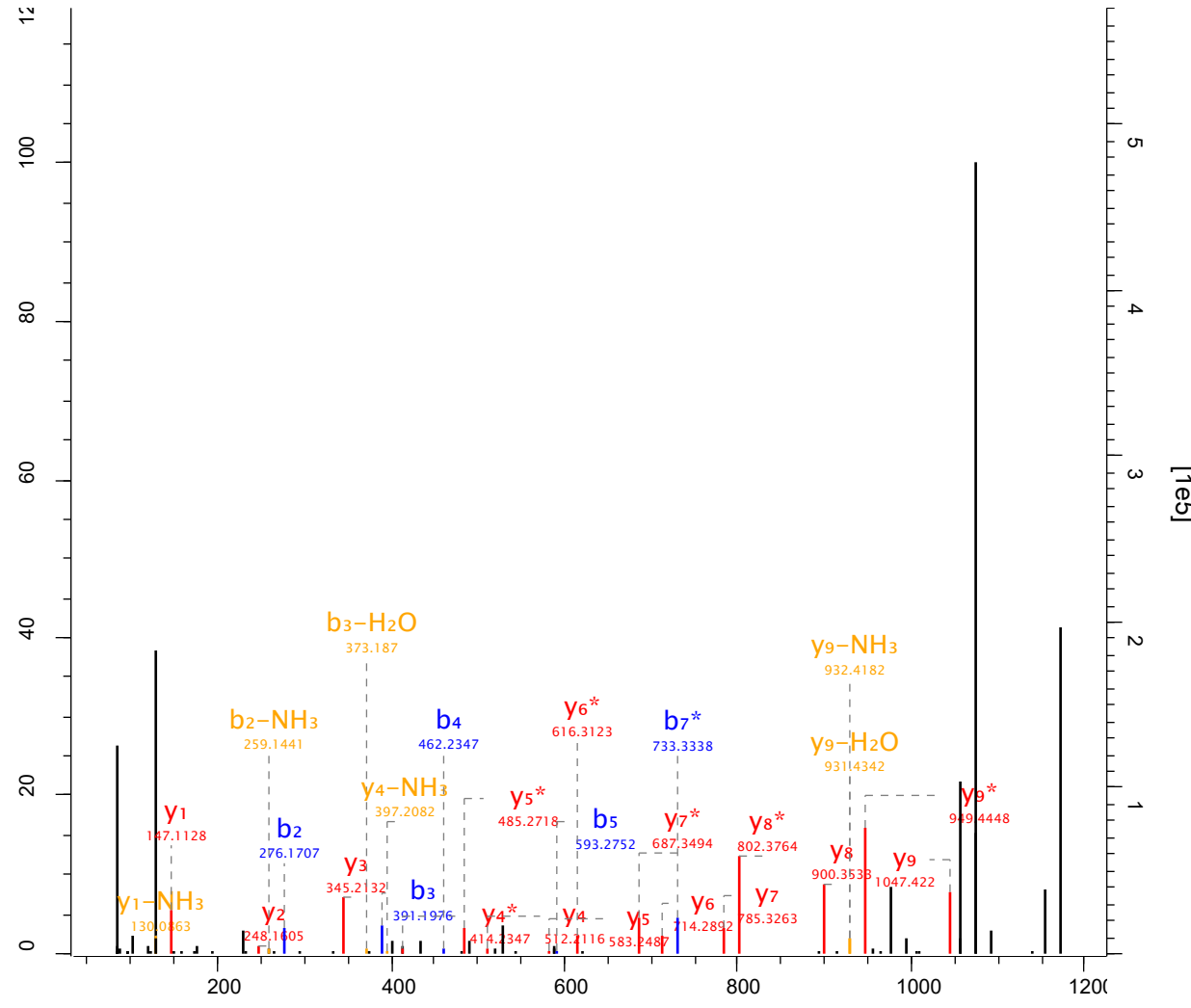
Raw file	Scan	Method	Score	m/z
sys_02_2	6418	FTMS; HCD	42.03	535.23



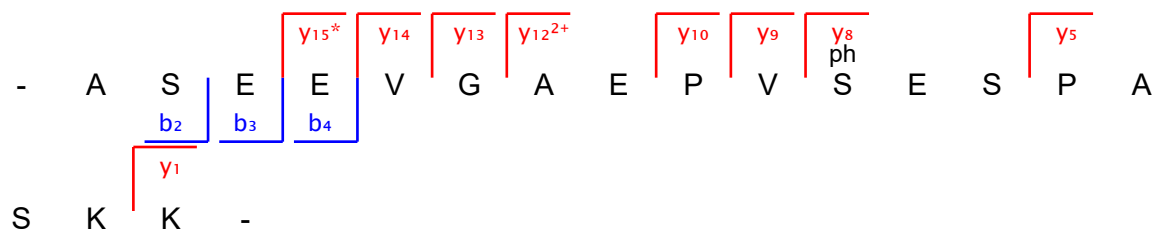
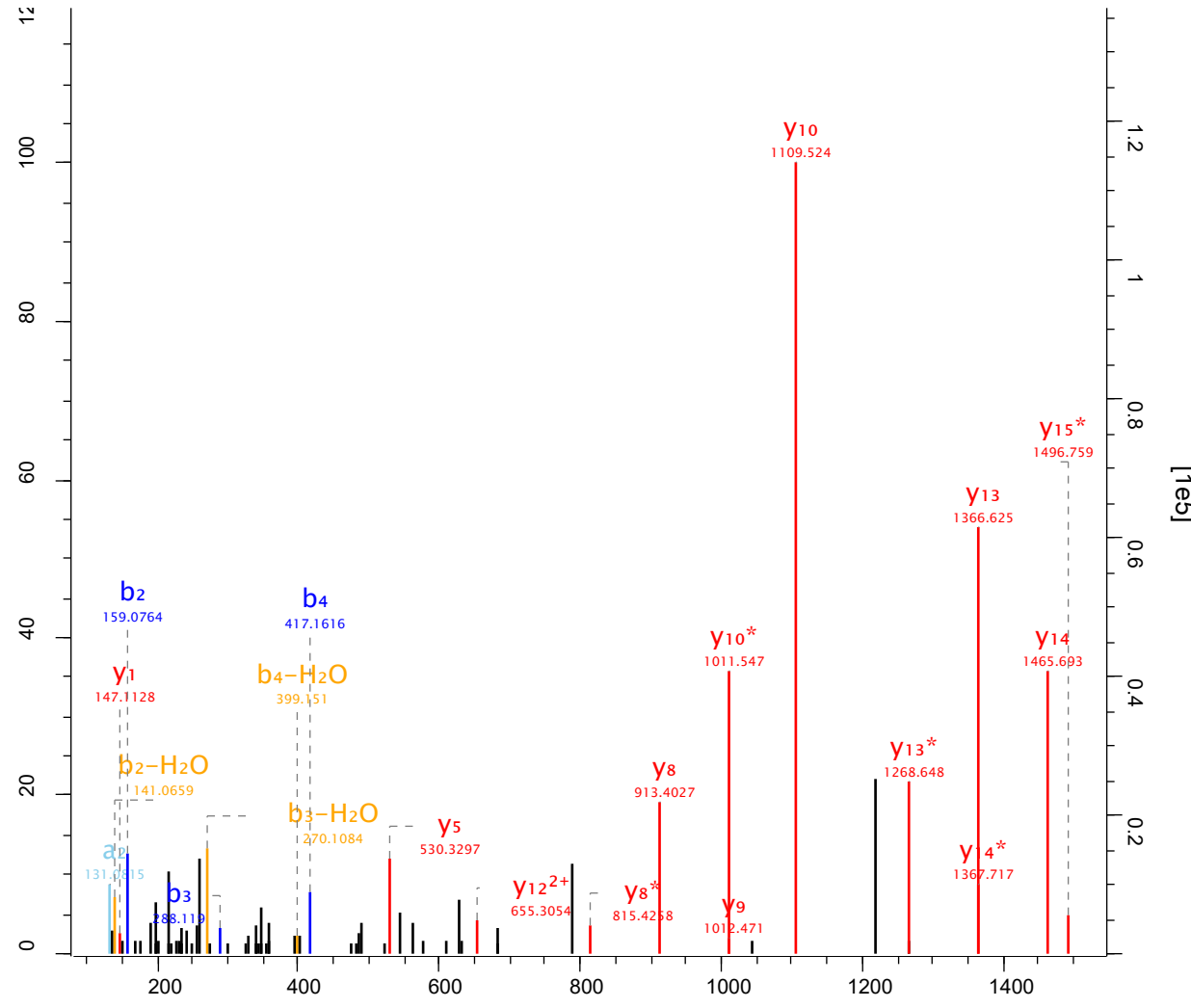
Raw file Scan Method Score m/z
 sys_02_2 6447 FTMS; HCD 78.19 659.77



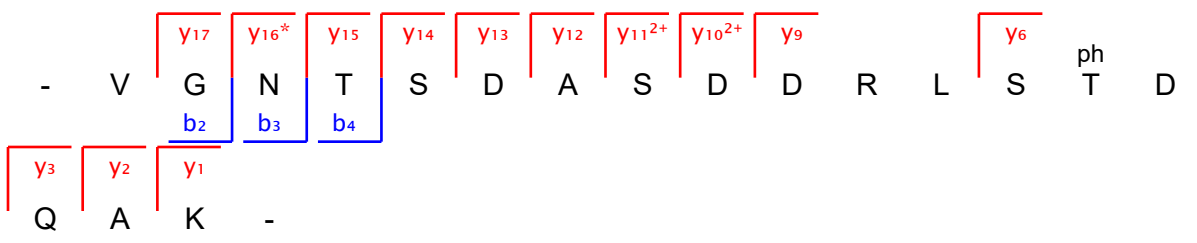
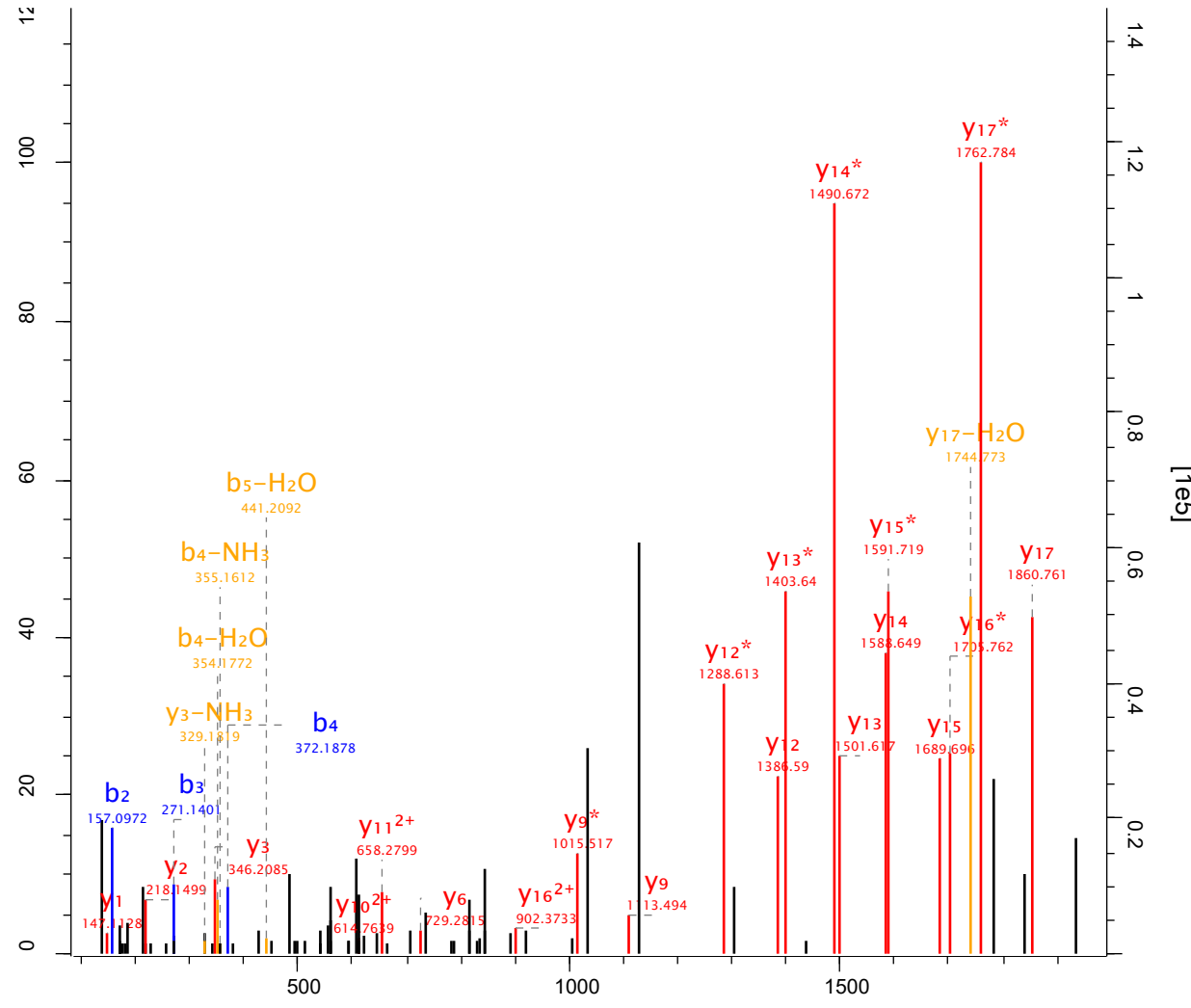
Raw file Scan Method Score m/z
 sys_02_2 6495 FTMS; HCD 98.42 588.26



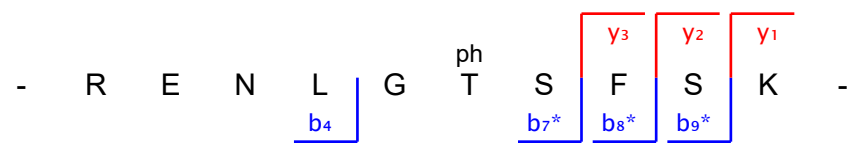
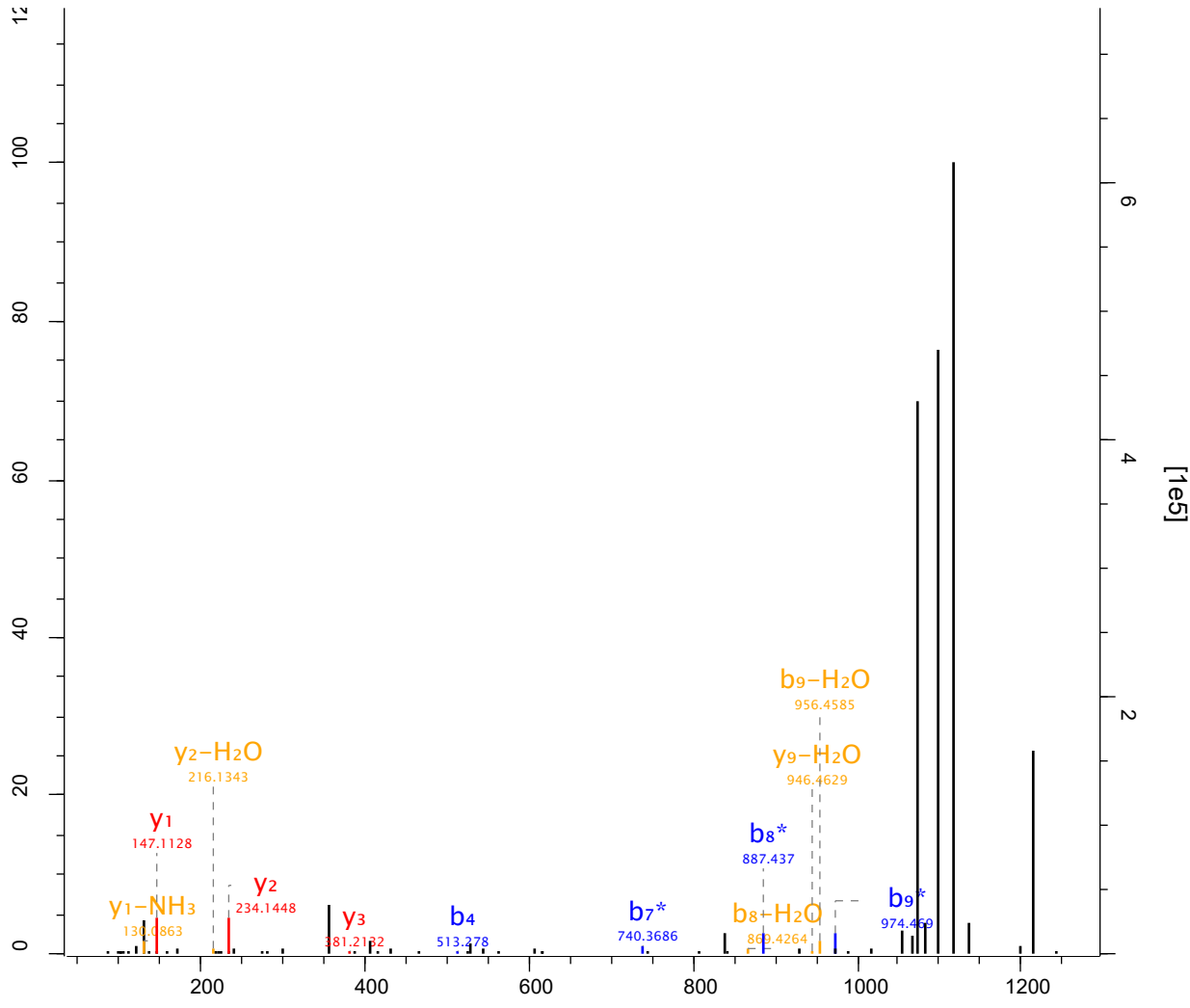
Raw file Scan Method Score m/z
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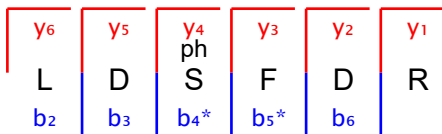
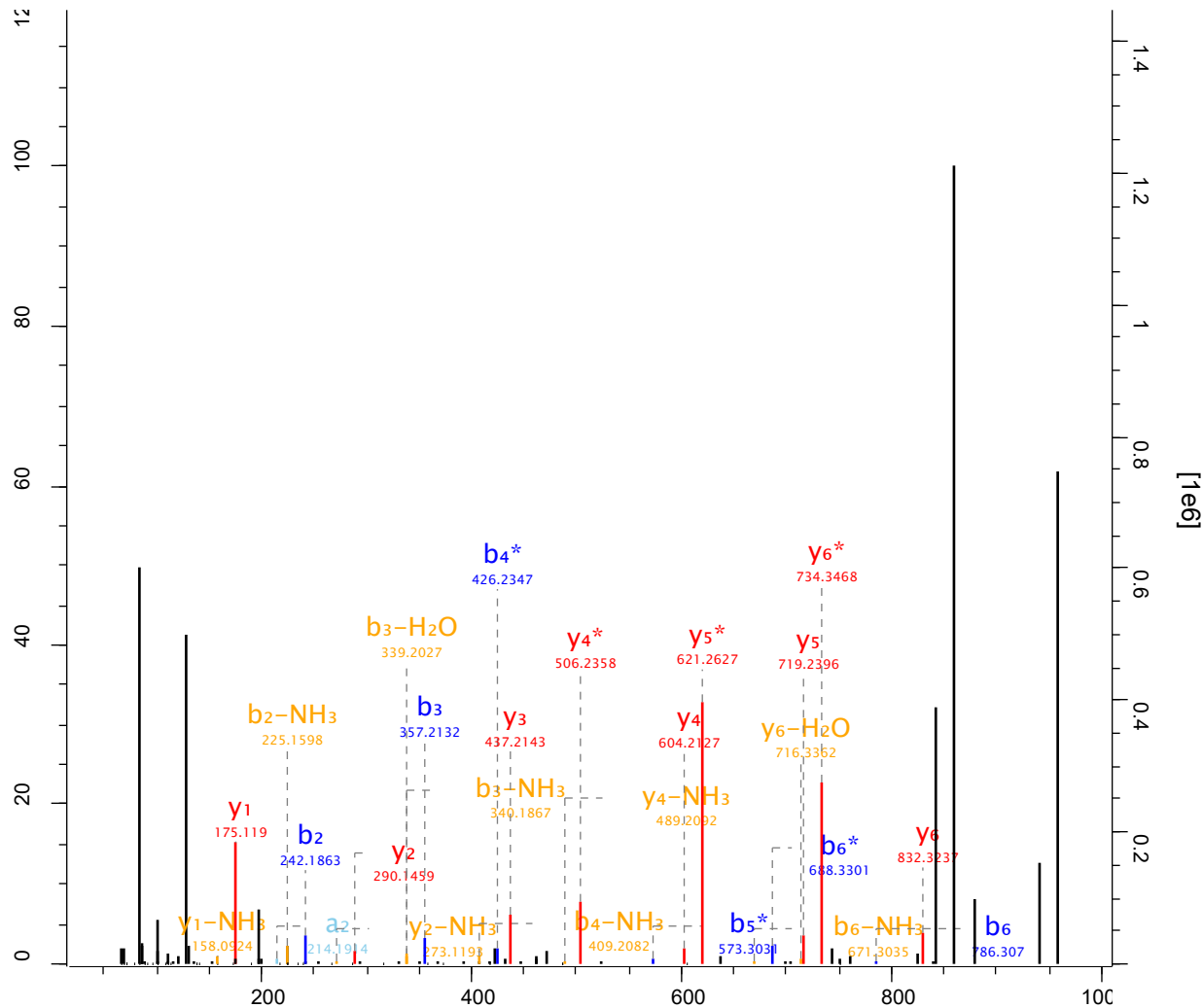
Raw file Scan Method Score m/z
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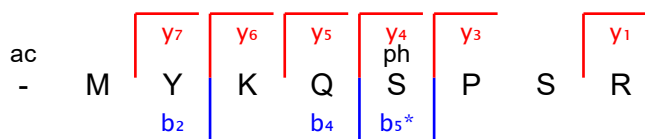
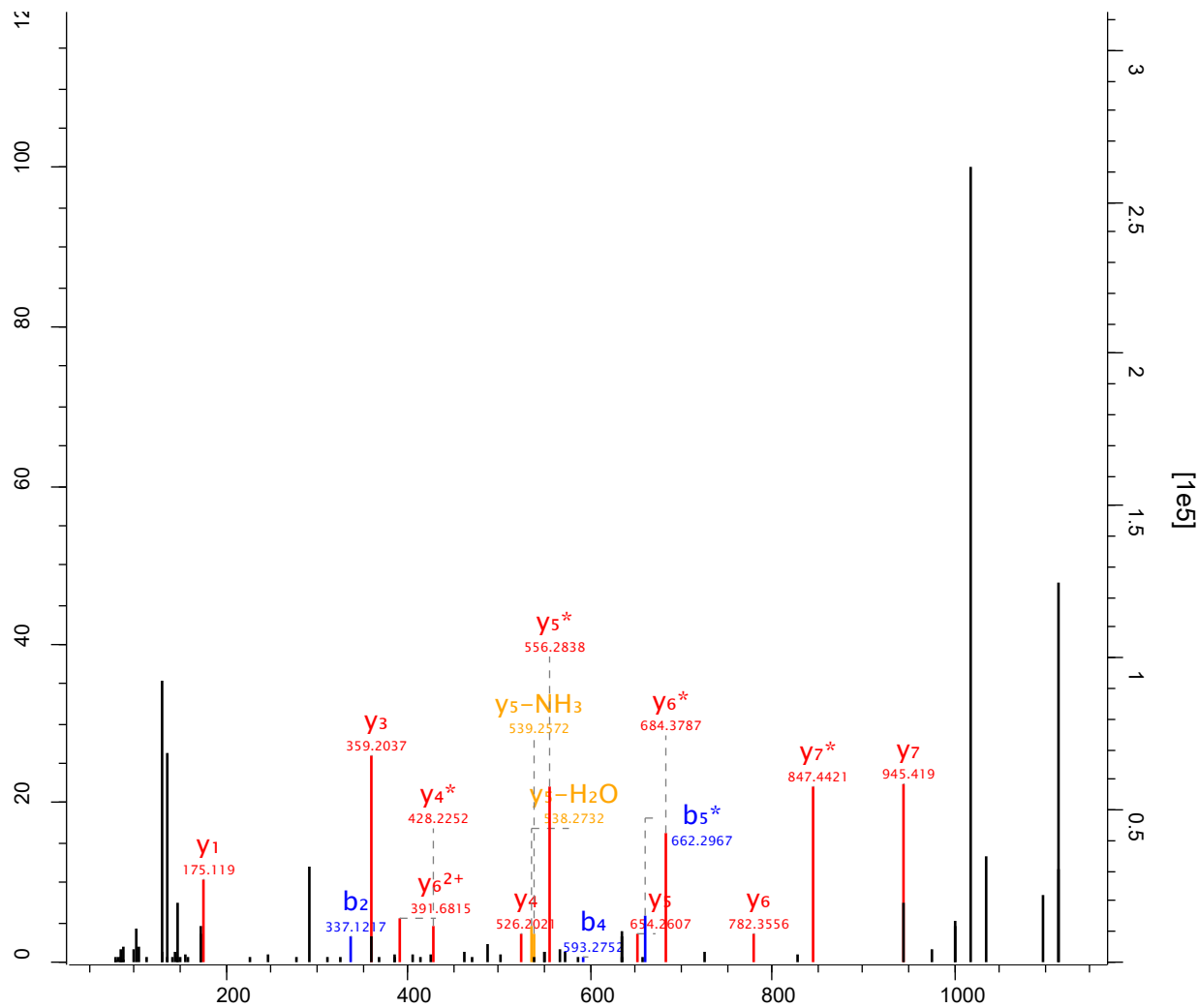
Raw file	Scan	Method	Score	m/z
sys_02_2	6730	FTMS; HCD	47.71	609.78



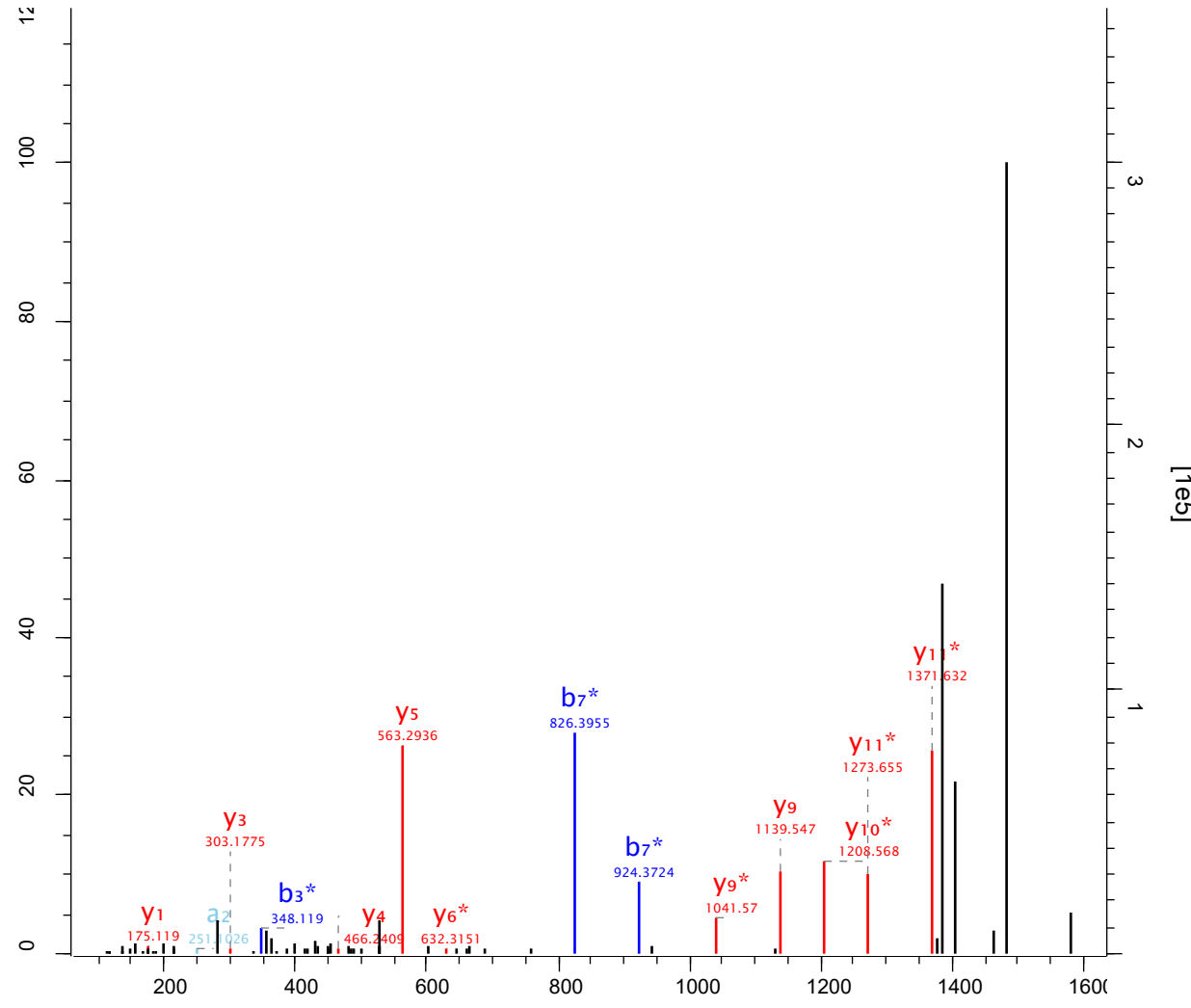
Raw file Scan Method Score m/z
 sys_02_2 6732 FTMS; HCD 130.01 480.71



Raw file Scan Method Score m/z
 sys_02_2 6867 FTMS; HCD 107.06 559.74

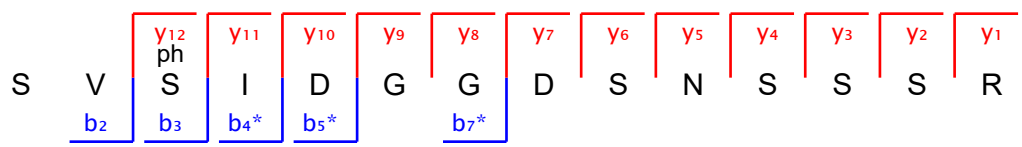
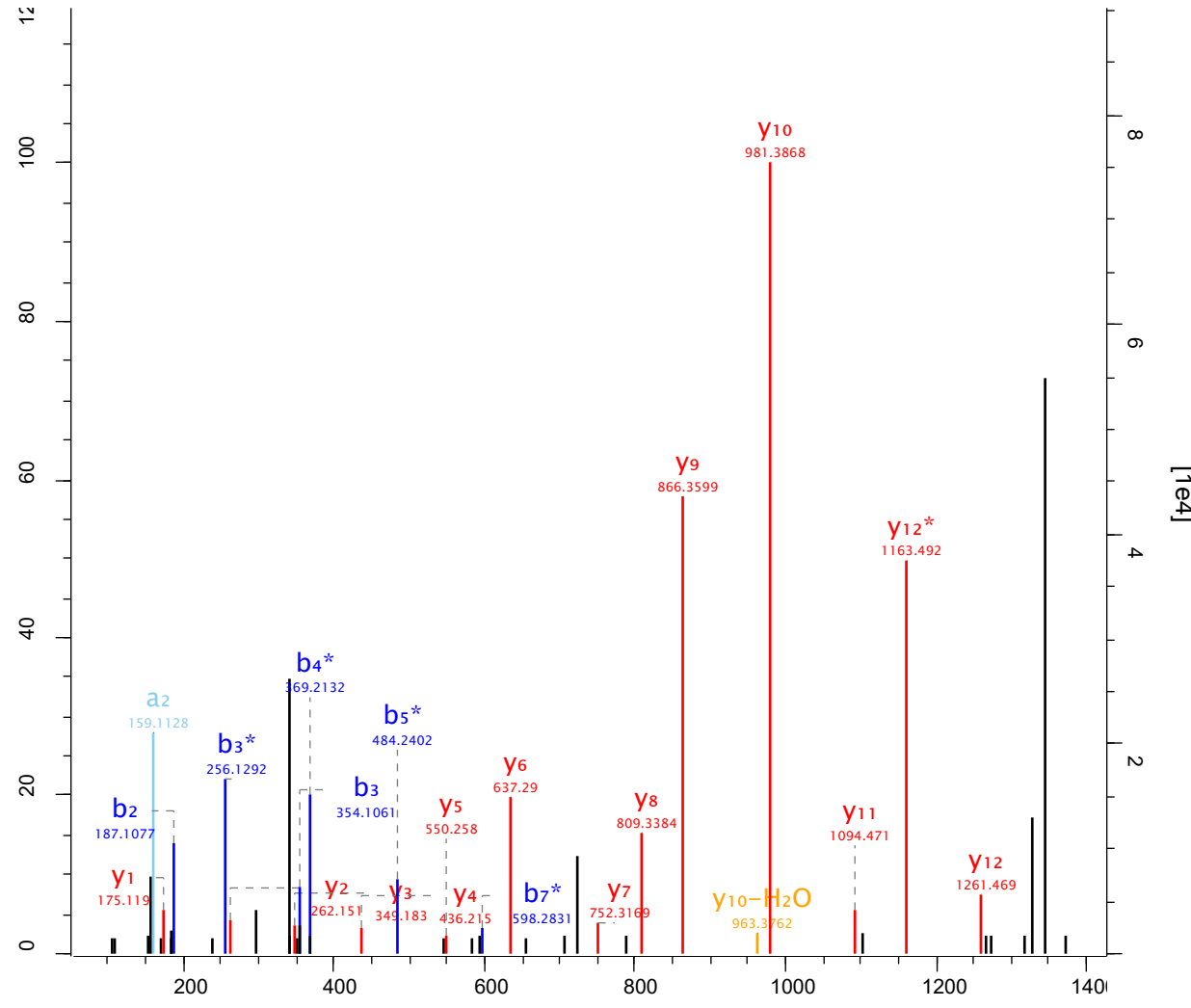


Raw file Scan Method Score m/z
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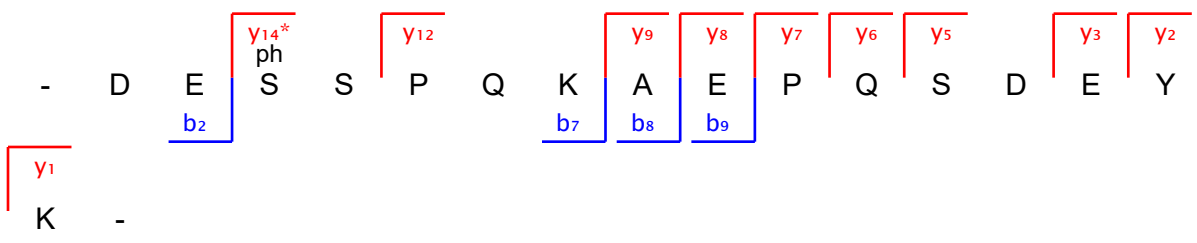
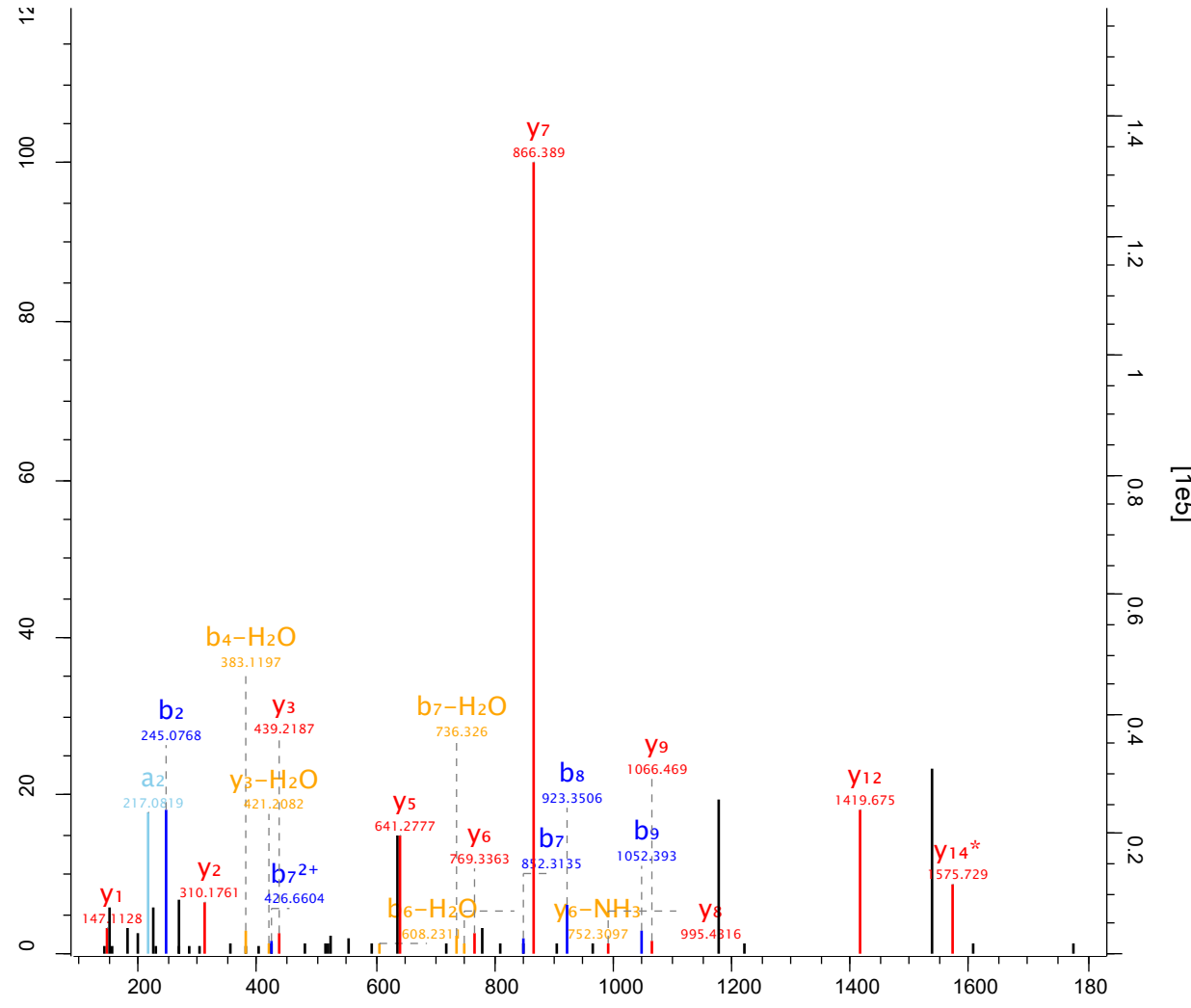


- D Y S P R R S P Y A G R -
 (Labels above: y11*, y10*, y9, y6*, y5, y4, y3, y1)
 (Labels below: a2, b3*, b7*)

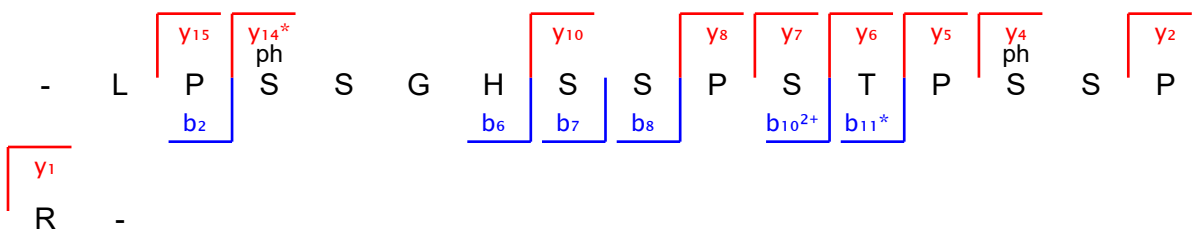
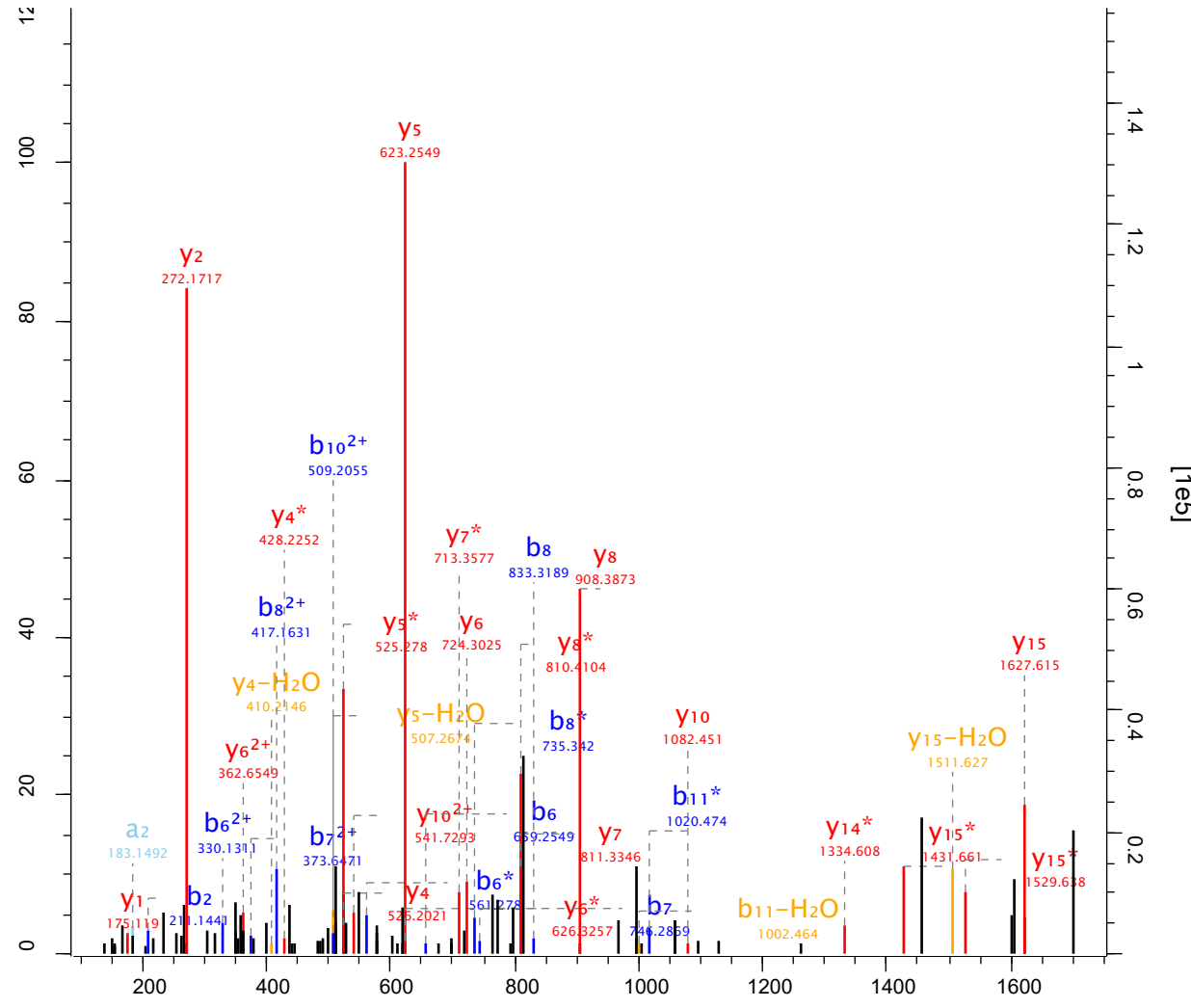
Raw file Scan Method Score m/z
 sys_02_2 7075 FTMS; HCD 89.47 724.29



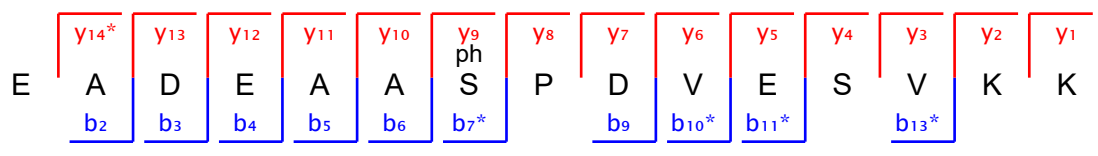
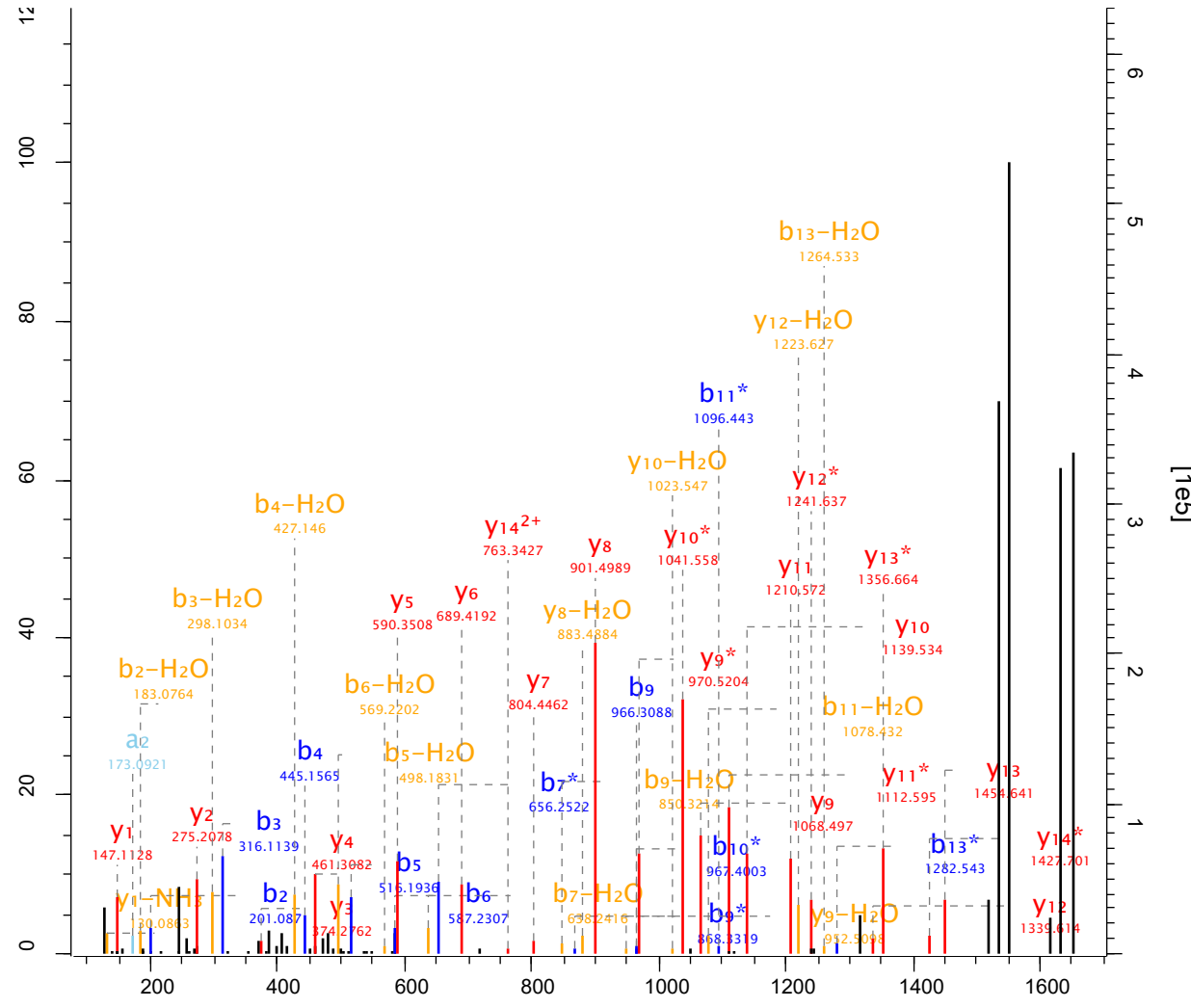
Raw file Scan Method Score m/z
 sys_02_2 7097 FTMS; HCD 67.65 639.93



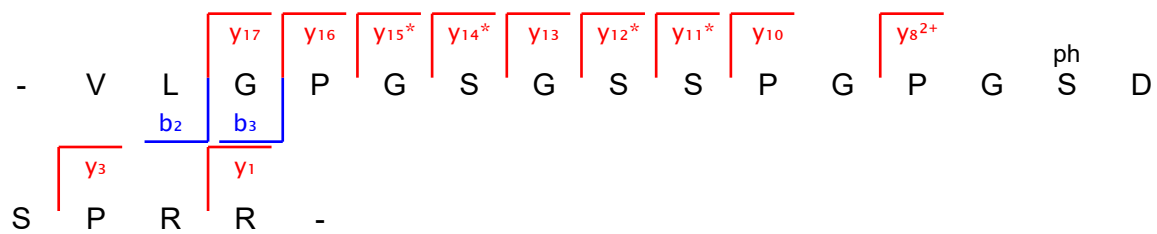
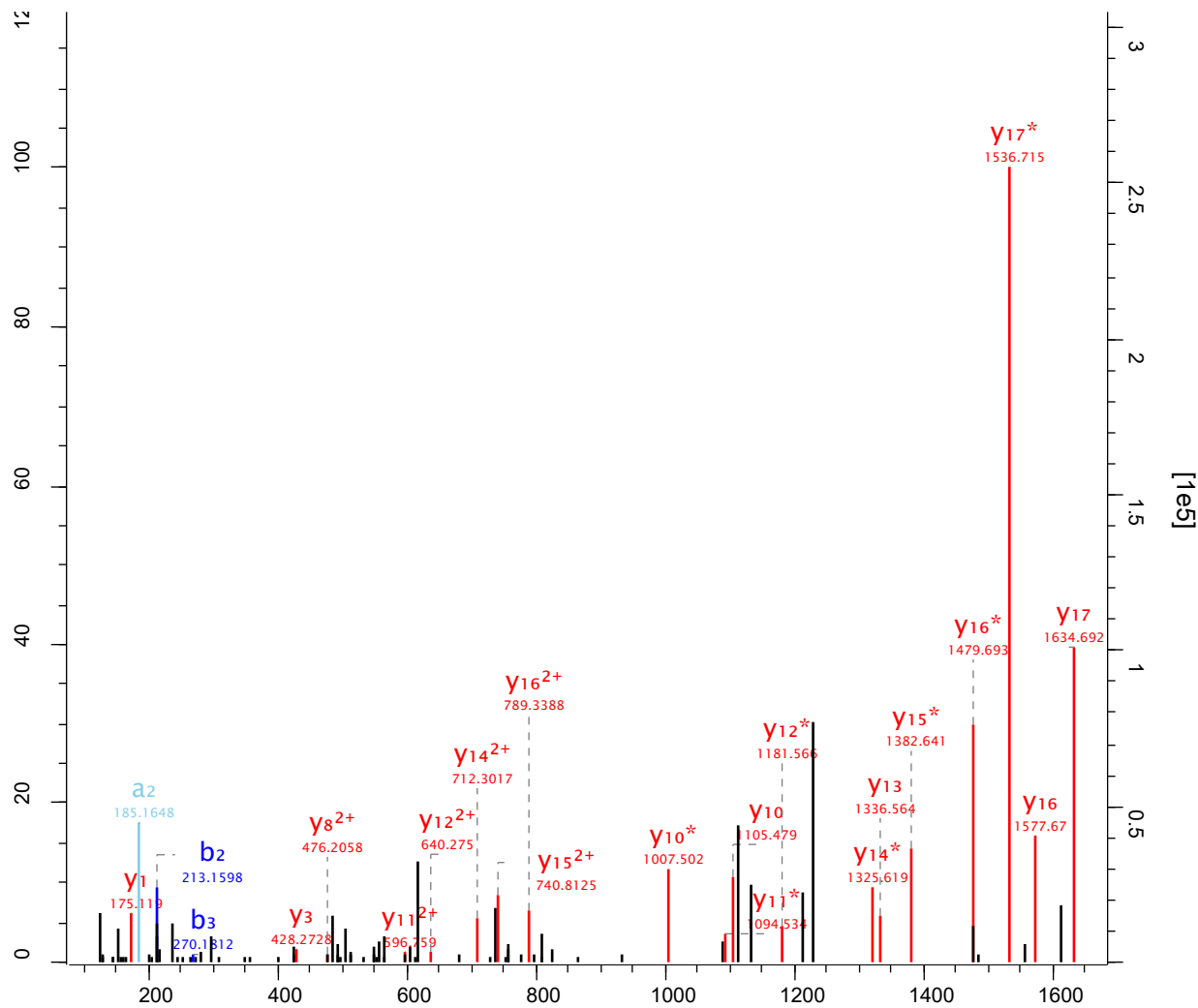
Raw file Scan Method Score m/z
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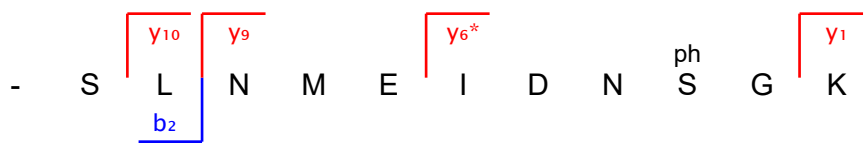
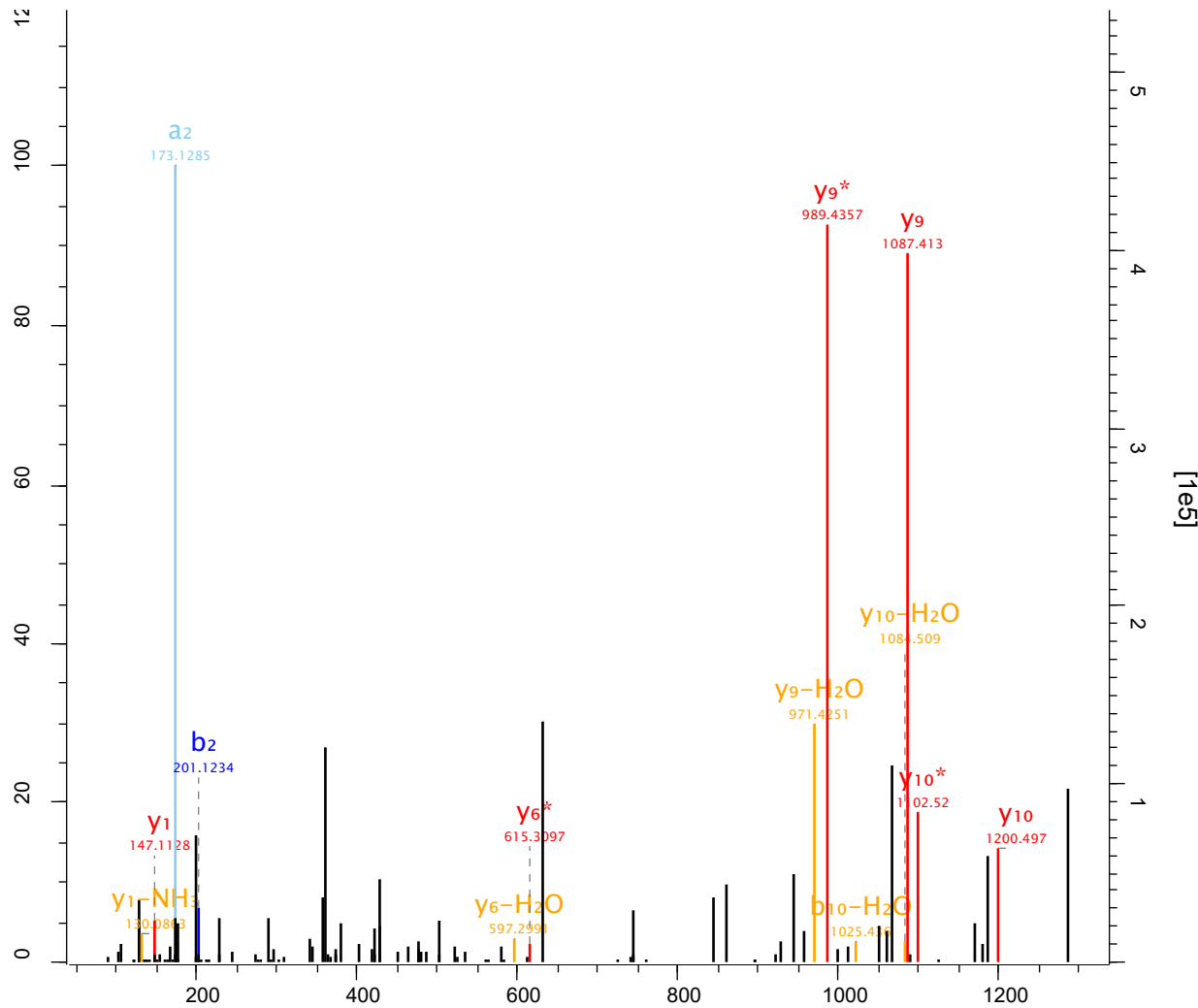
Raw file Scan Method Score m/z
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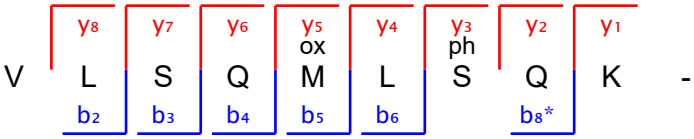
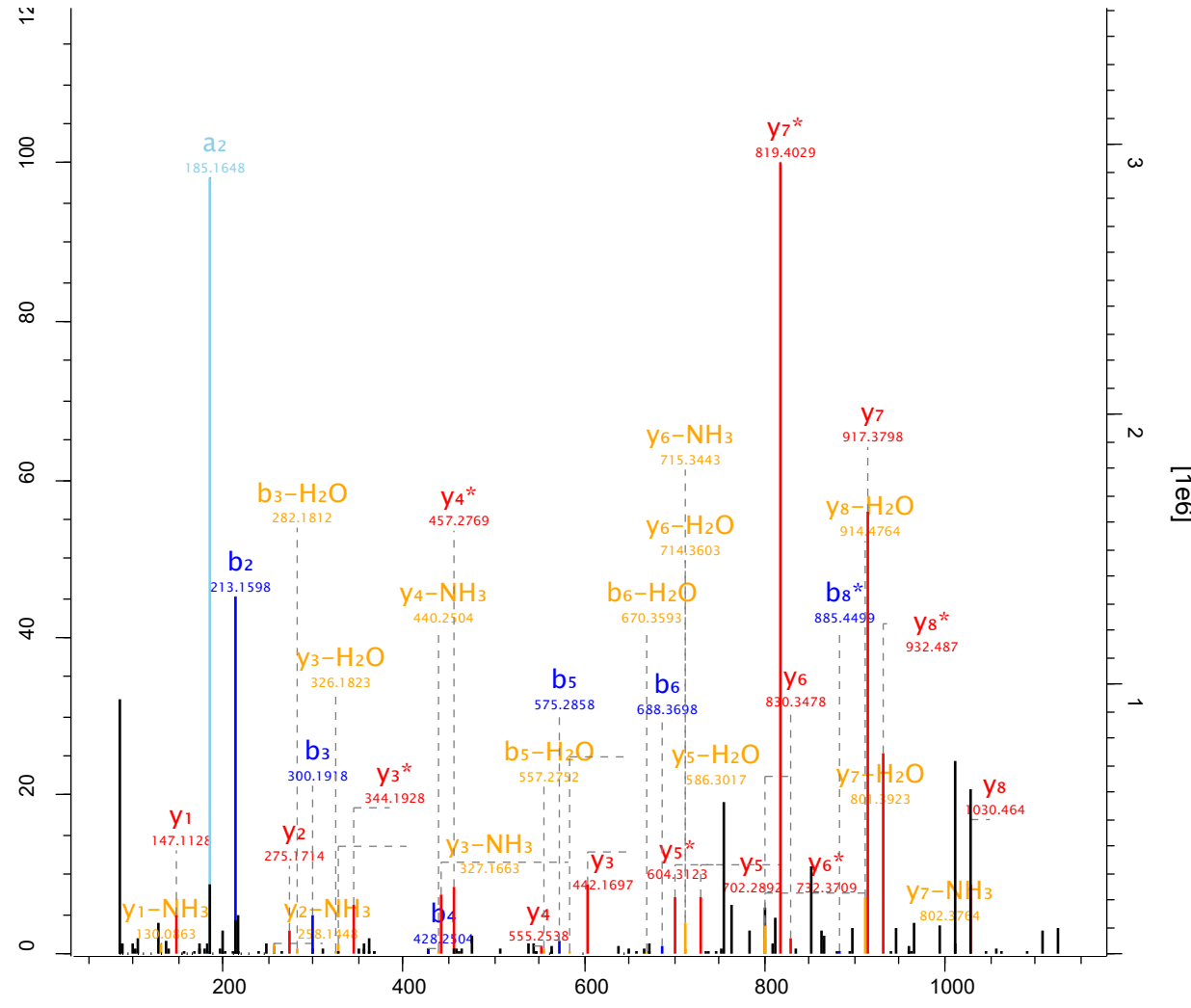
Raw file	Scan	Method	Score	m/z
sys_02_2	7182	FTMS; HCD	82.63	616.62



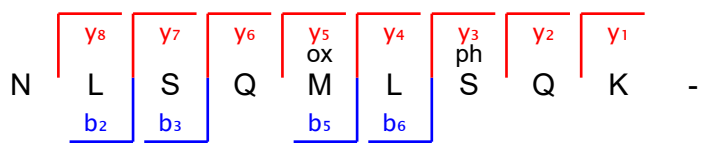
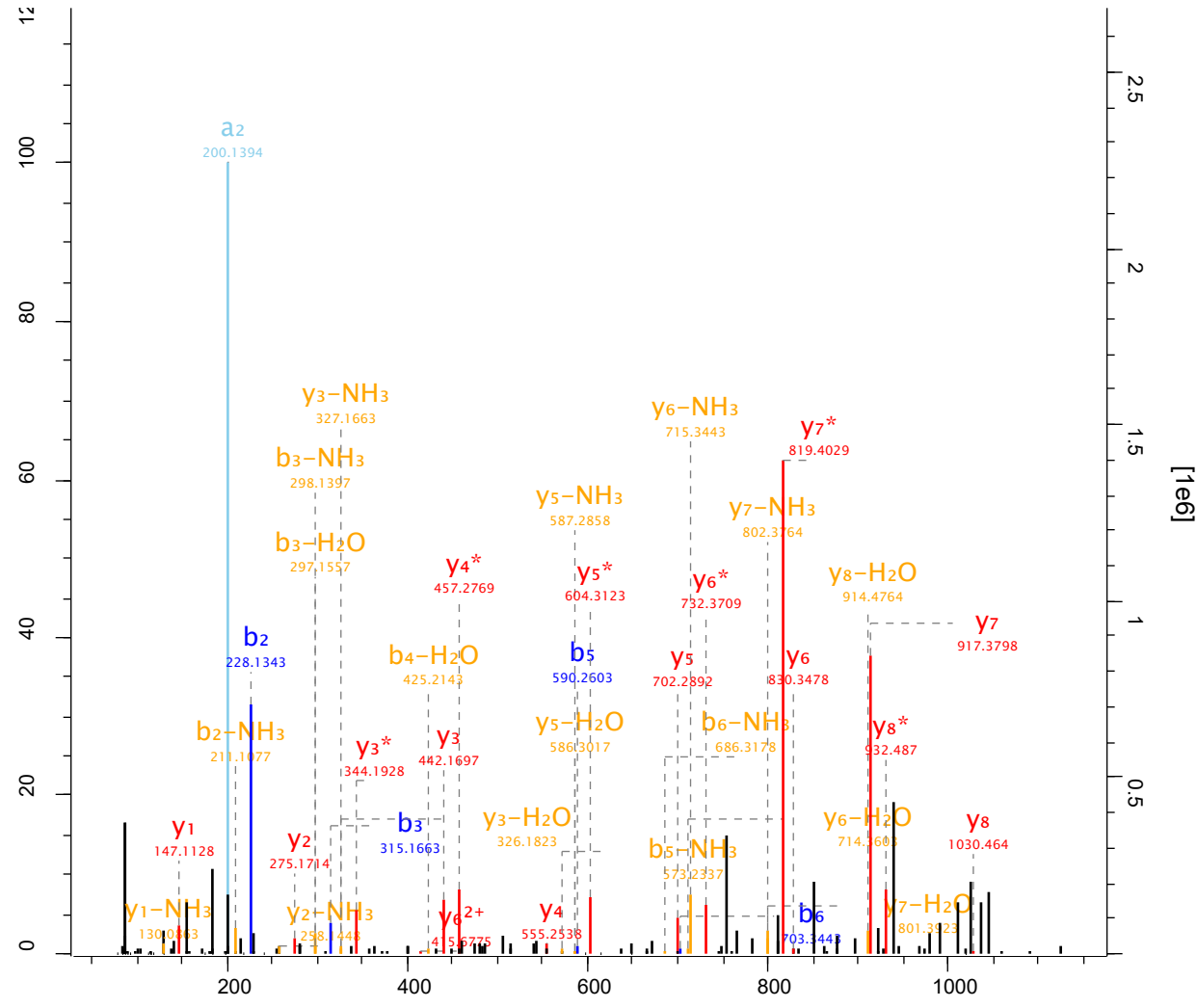
Raw file Scan Method Score m/z
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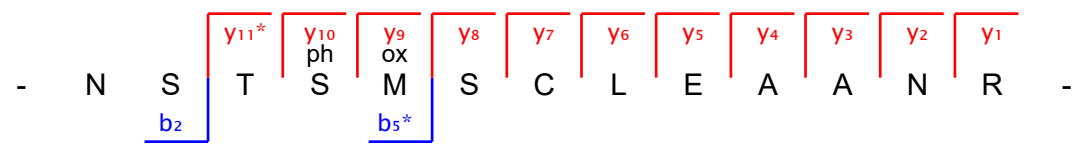
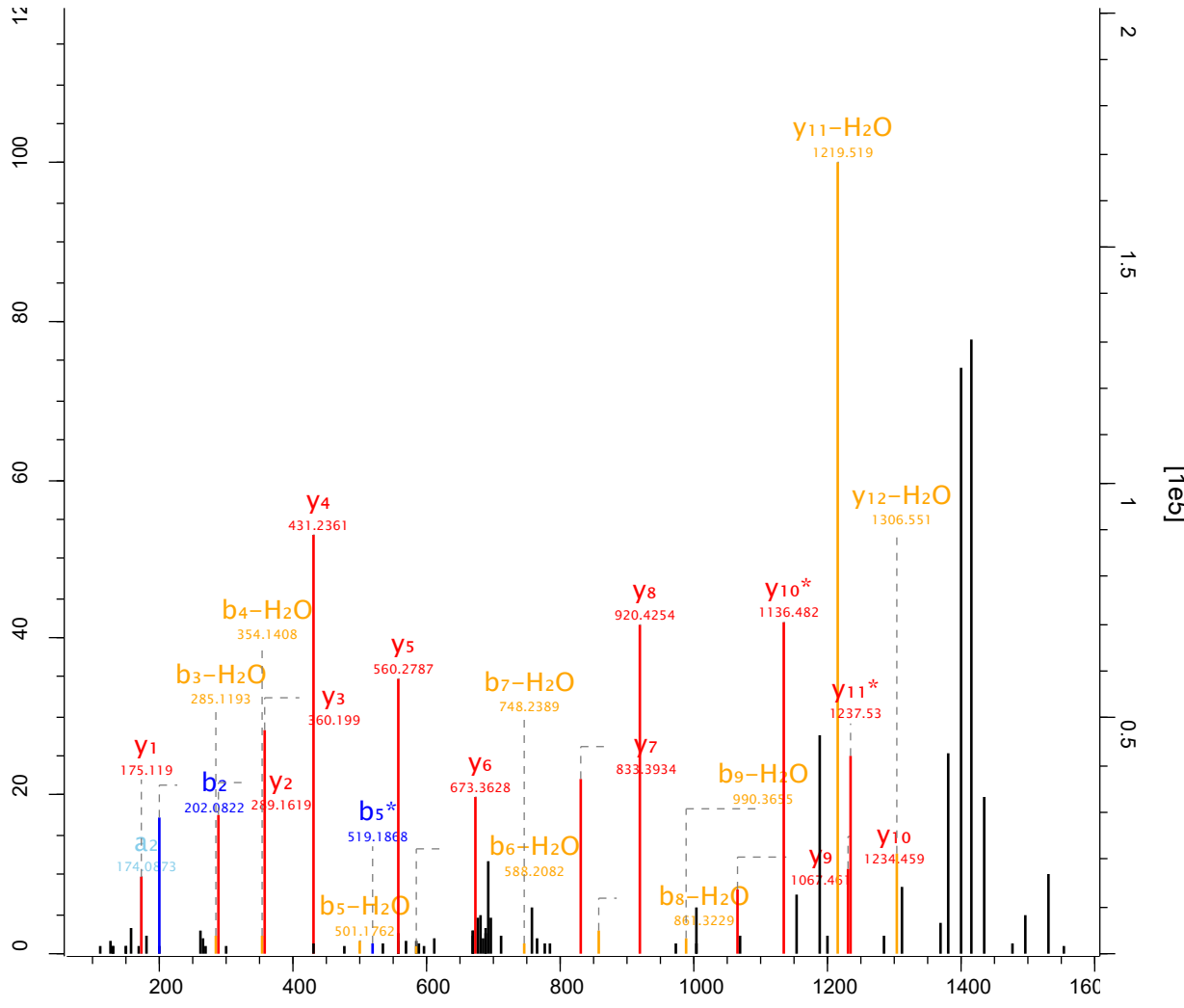
Raw file Scan Method Score m/z
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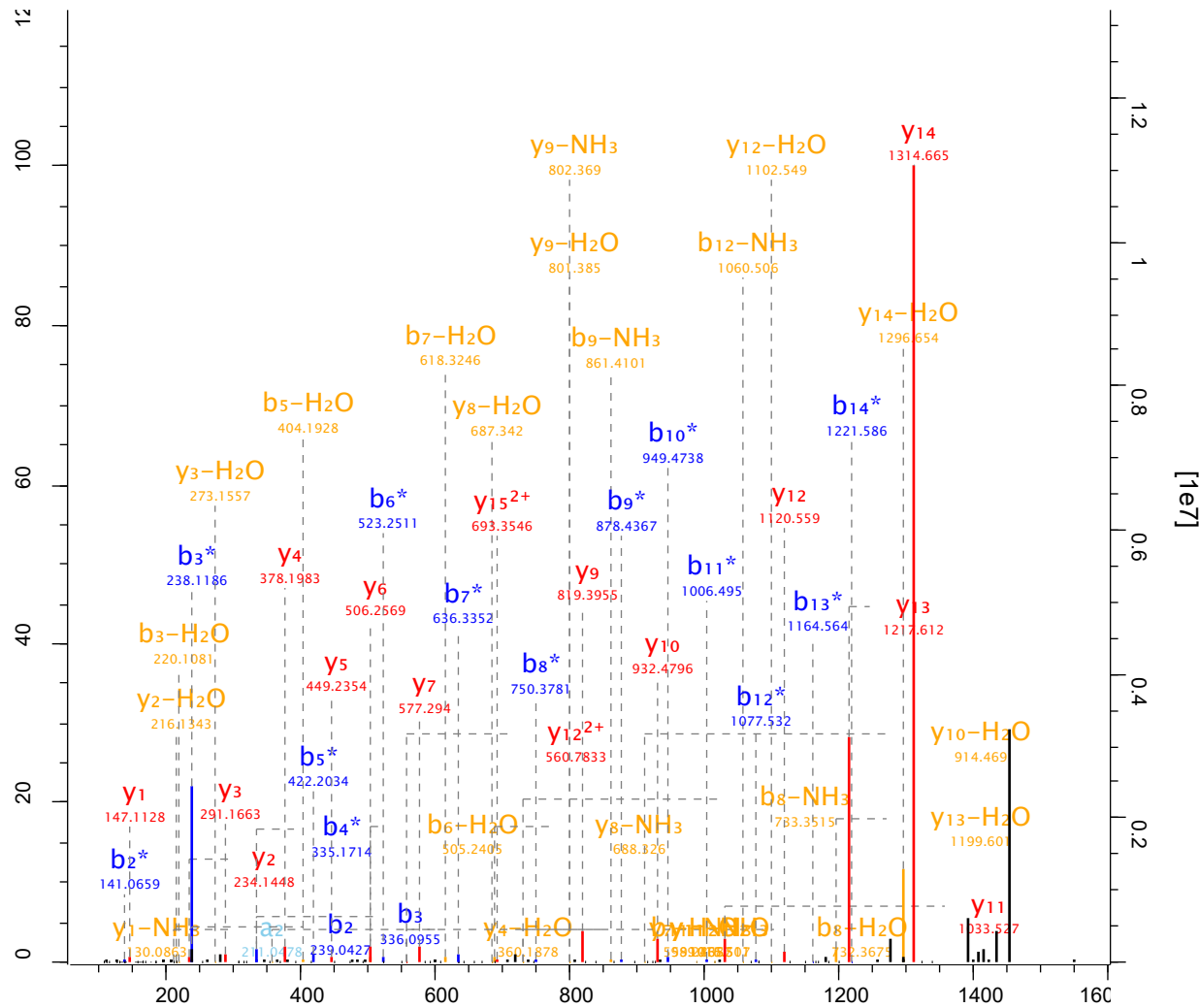
Raw file Scan Method Score m/z
 sys_02_2 7461 FTMS; HCD 189.51 572.76



Raw file Scan Method Score m/z
 sys_02_2 7470 FTMS; HCD 83.54 768.79



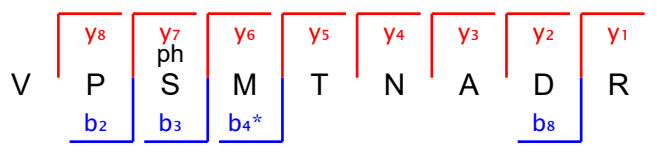
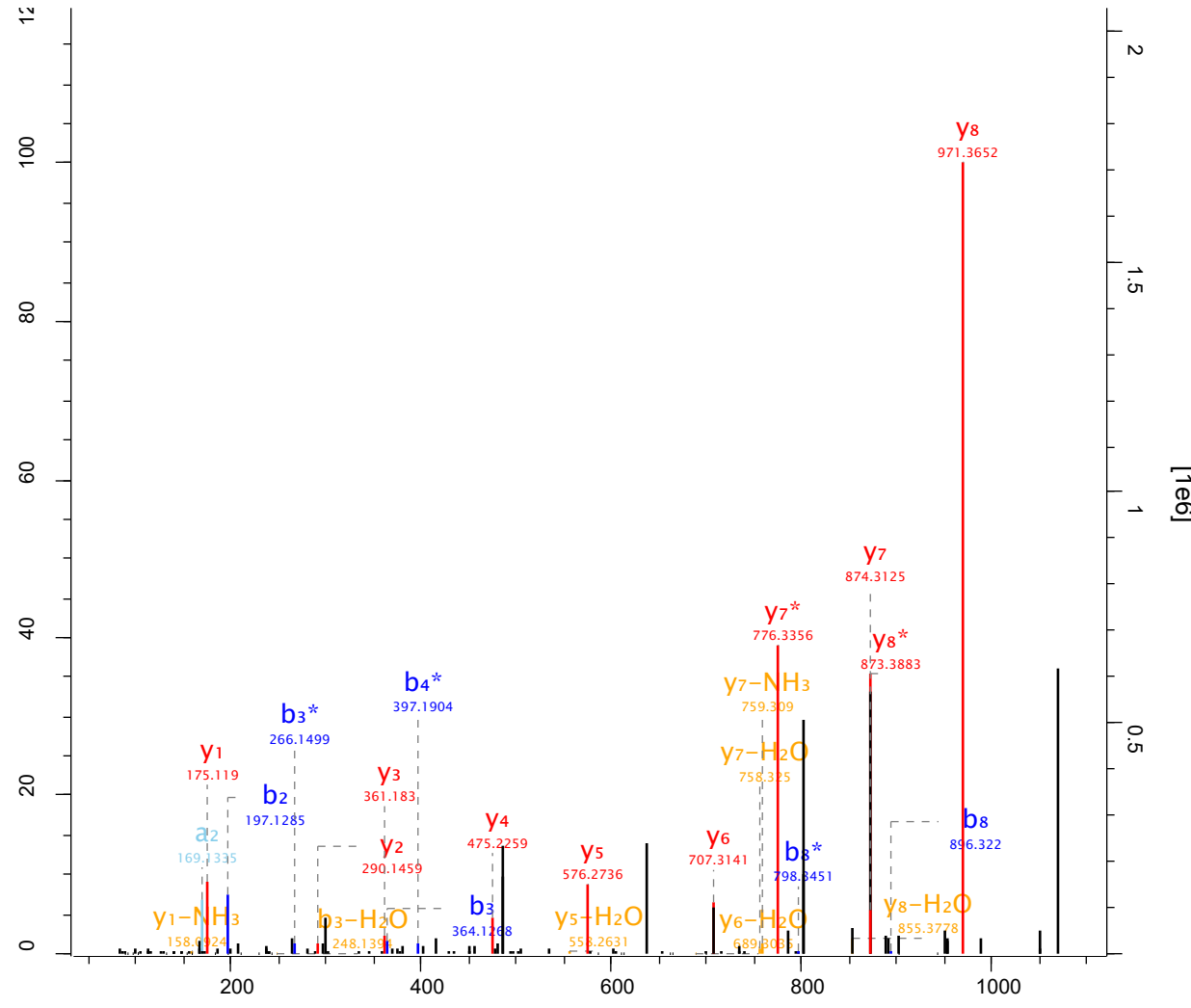
Raw file Scan Method Score m/z
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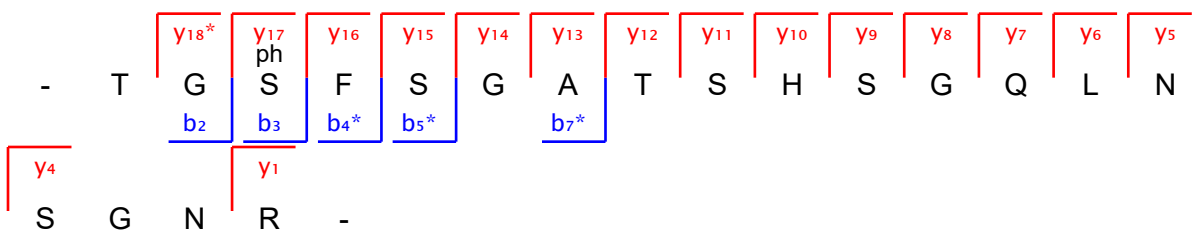
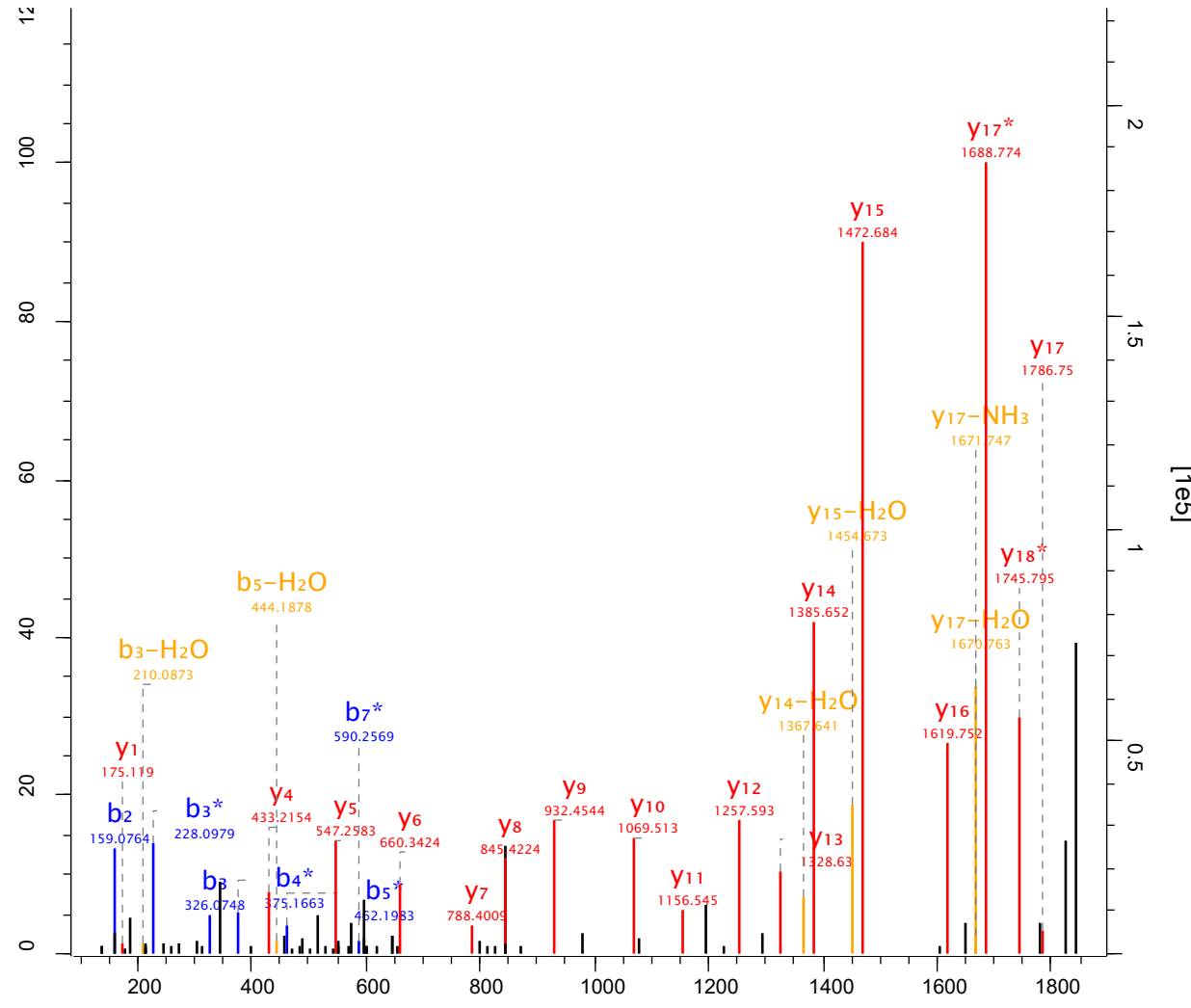
ph	y15 ²⁺	y14	y13	y12	y11	y10	y9	y7		y6	y5	y4	y3	y2
S	A	P	P	S	T	L	N	Q	A	G	A	S	G	S
-	b ₂	b ₃	b ₄ [*]	b ₅ [*]	b ₆ [*]	b ₇ [*]	b ₈ [*]	b ₉ [*]	b ₁₀ [*]	b ₁₁ [*]	b ₁₂ [*]	b ₁₃ [*]	b ₁₄ [*]	

y1
K

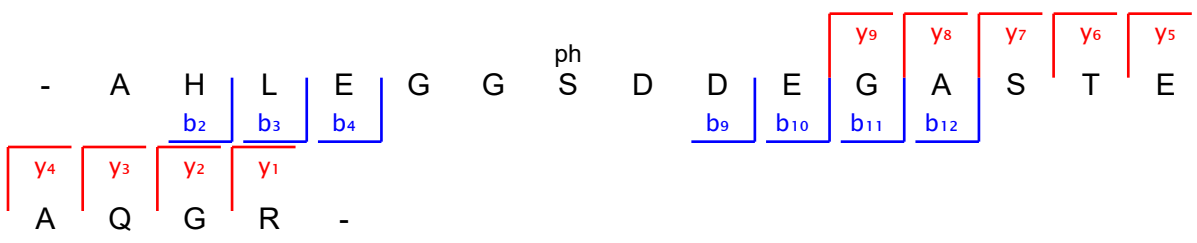
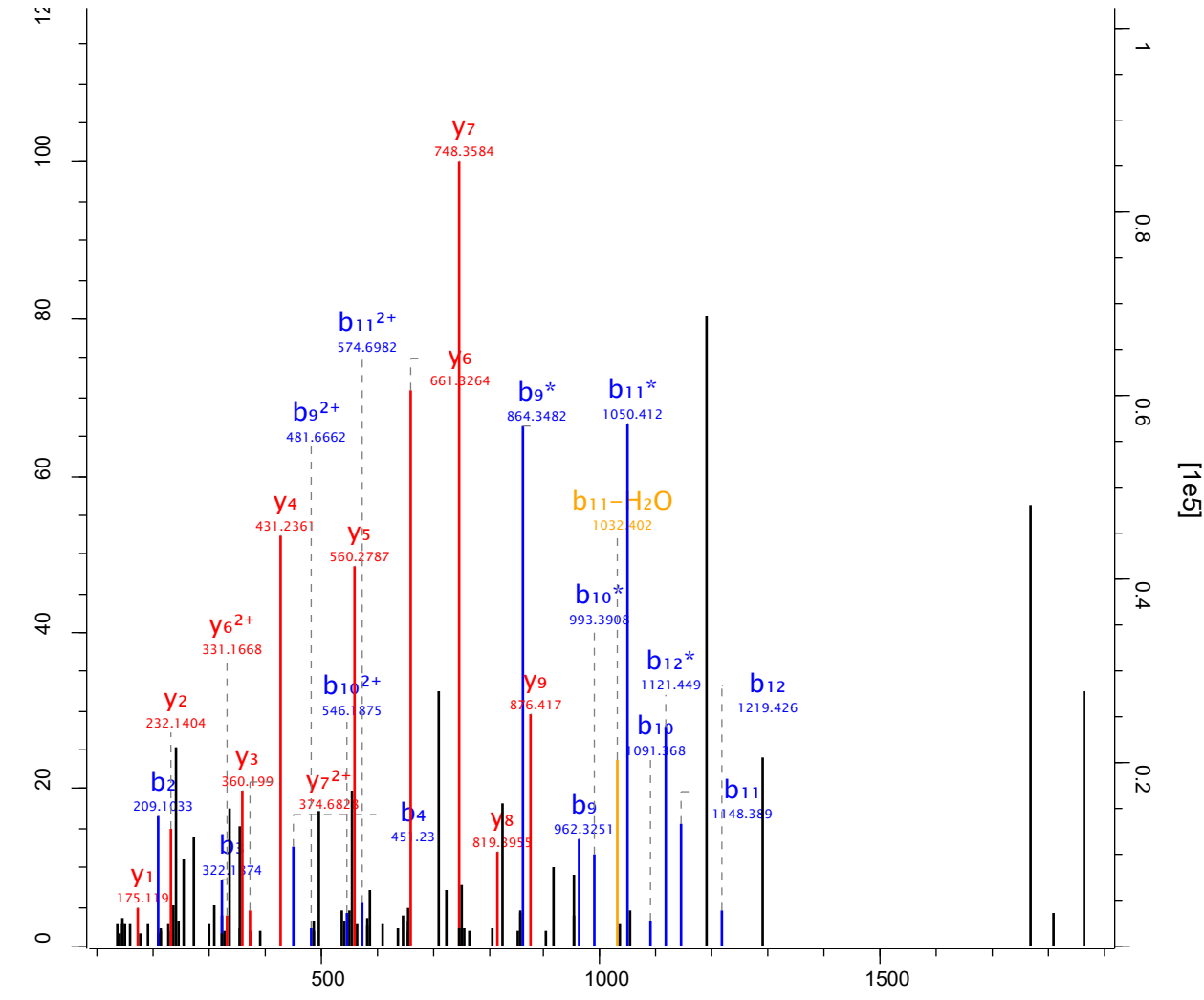
Raw file Scan Method Score m/z
 sys_02_2 7520 FTMS; HCD 86.29 535.72



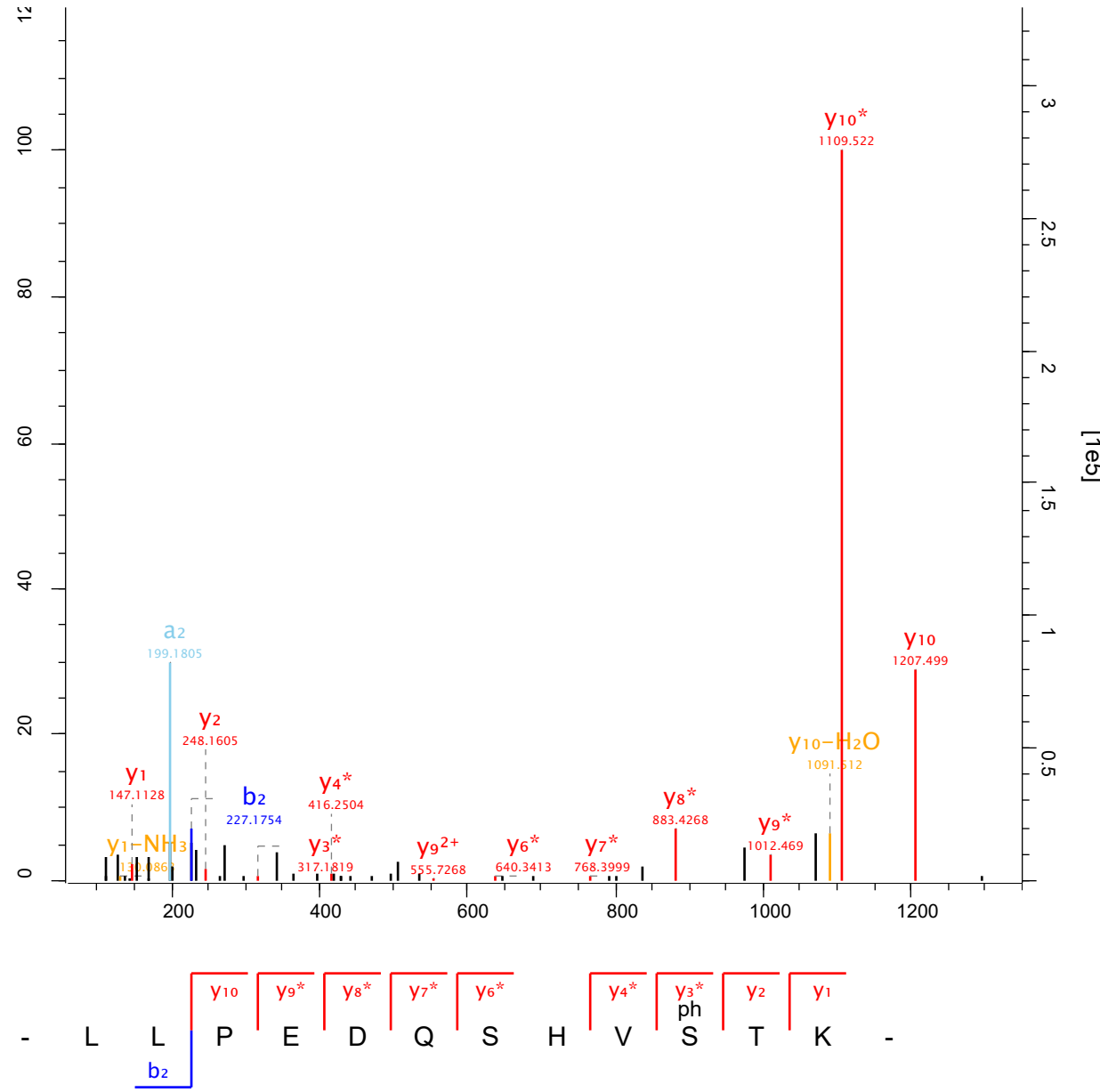
Raw file Scan Method Score m/z
 sys_02_2 7765 FTMS; HCD 102.21 648.94



Raw file Scan Method Score m/z
 sys_02_2 7806 FTMS; HCD 83.4 656.26



Raw file	Scan	Method	Score	m/z
sys_02_2	7947	FTMS; HCD	41.54	478.56



- L L P E D Q S H V S T K -

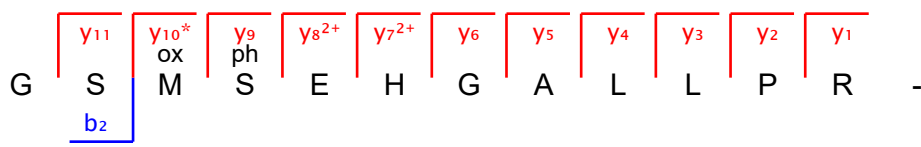
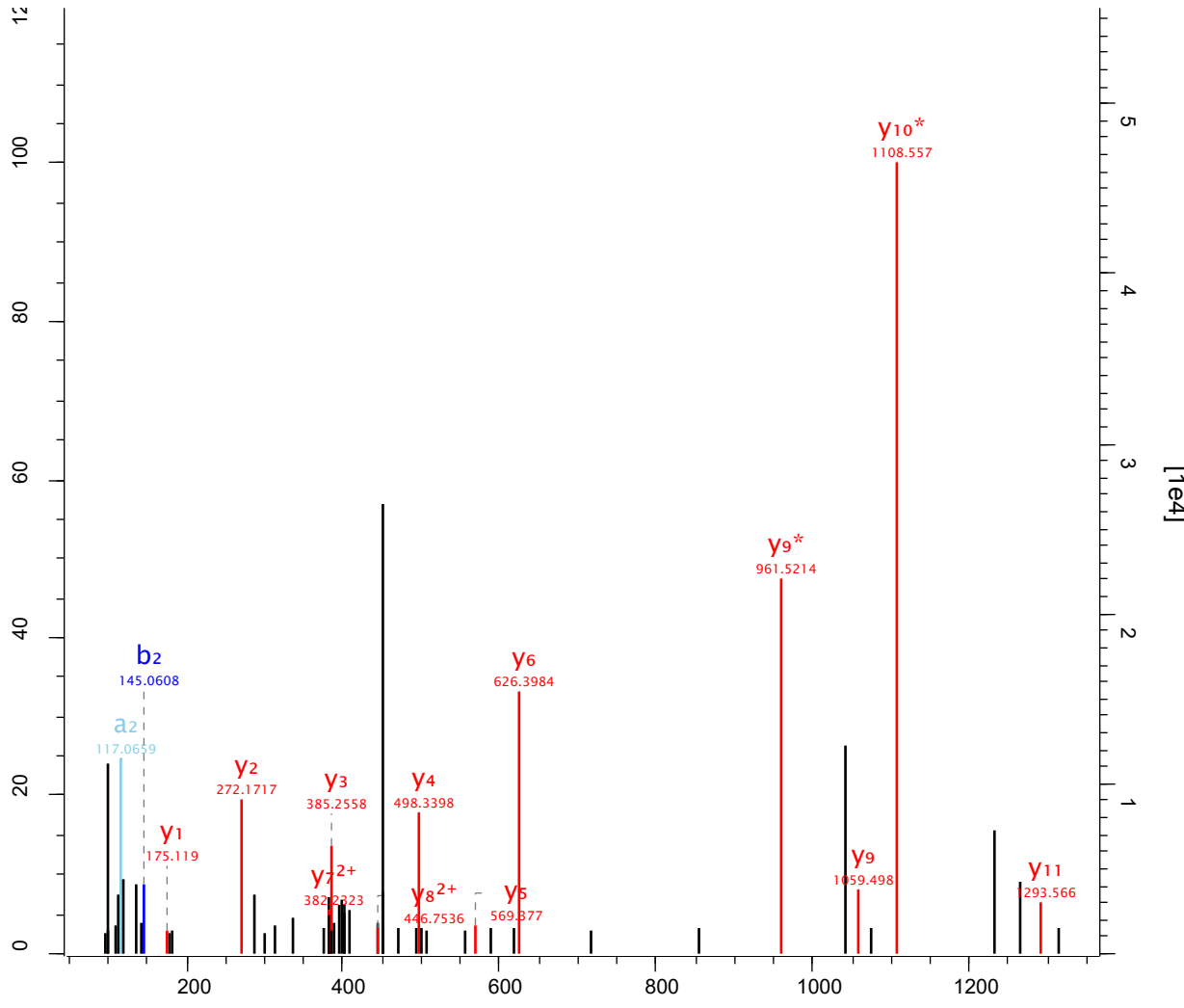
Fragmentation series indicated by brackets above the sequence:

- y_{10} (from L)
- y_9^* (from P)
- y_8^* (from E)
- y_7^* (from D)
- y_6^* (from Q)
- y_4^* (from V)
- y_3^* (from S)
- y_2 (from T)
- y_1 (from K)

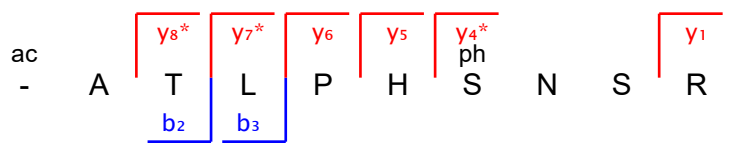
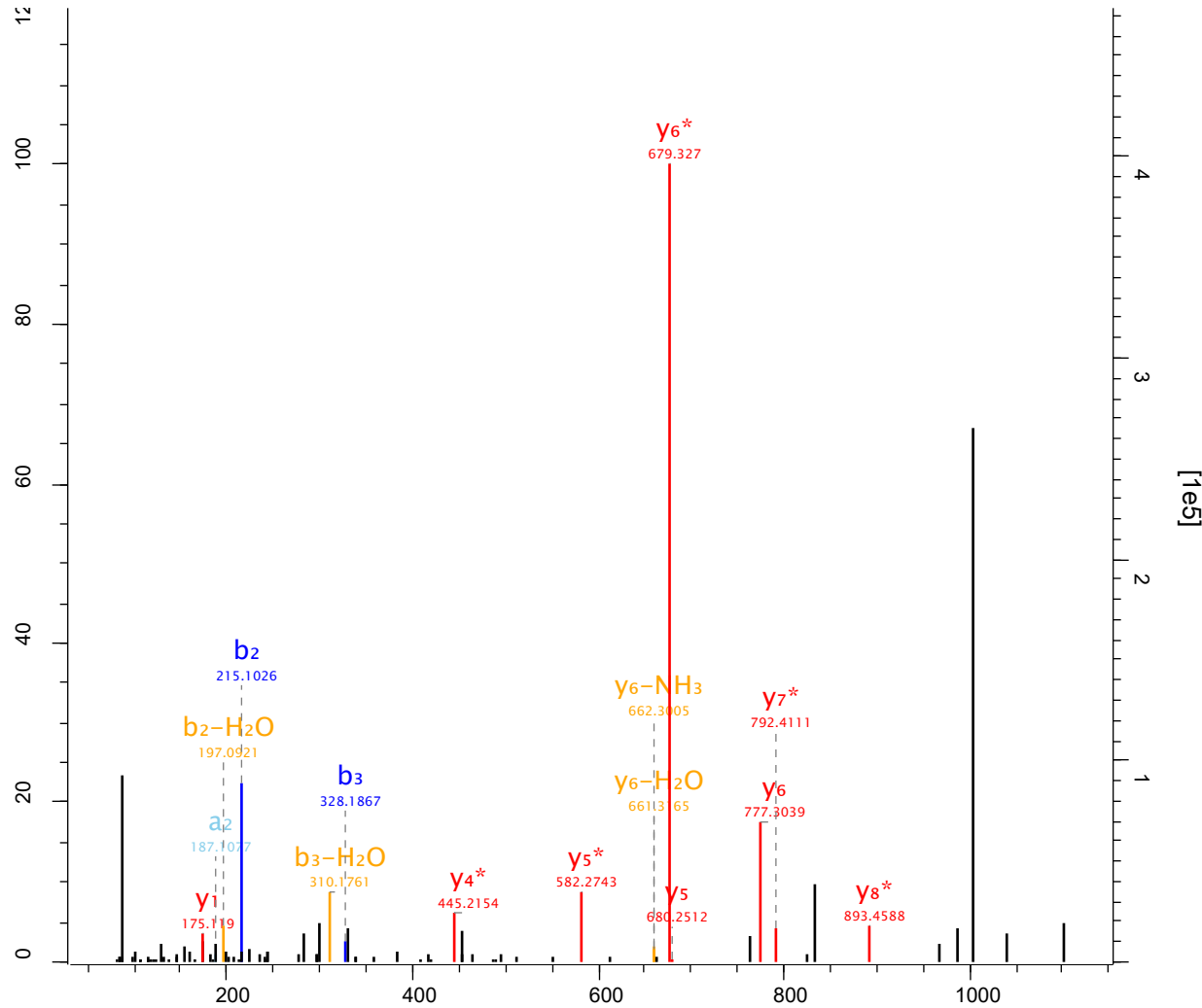
Additional fragmentation series indicated by brackets below the sequence:

- b_2 (from L)

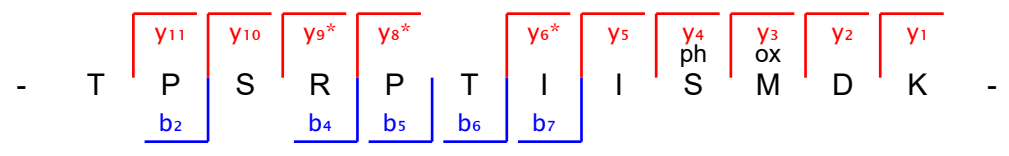
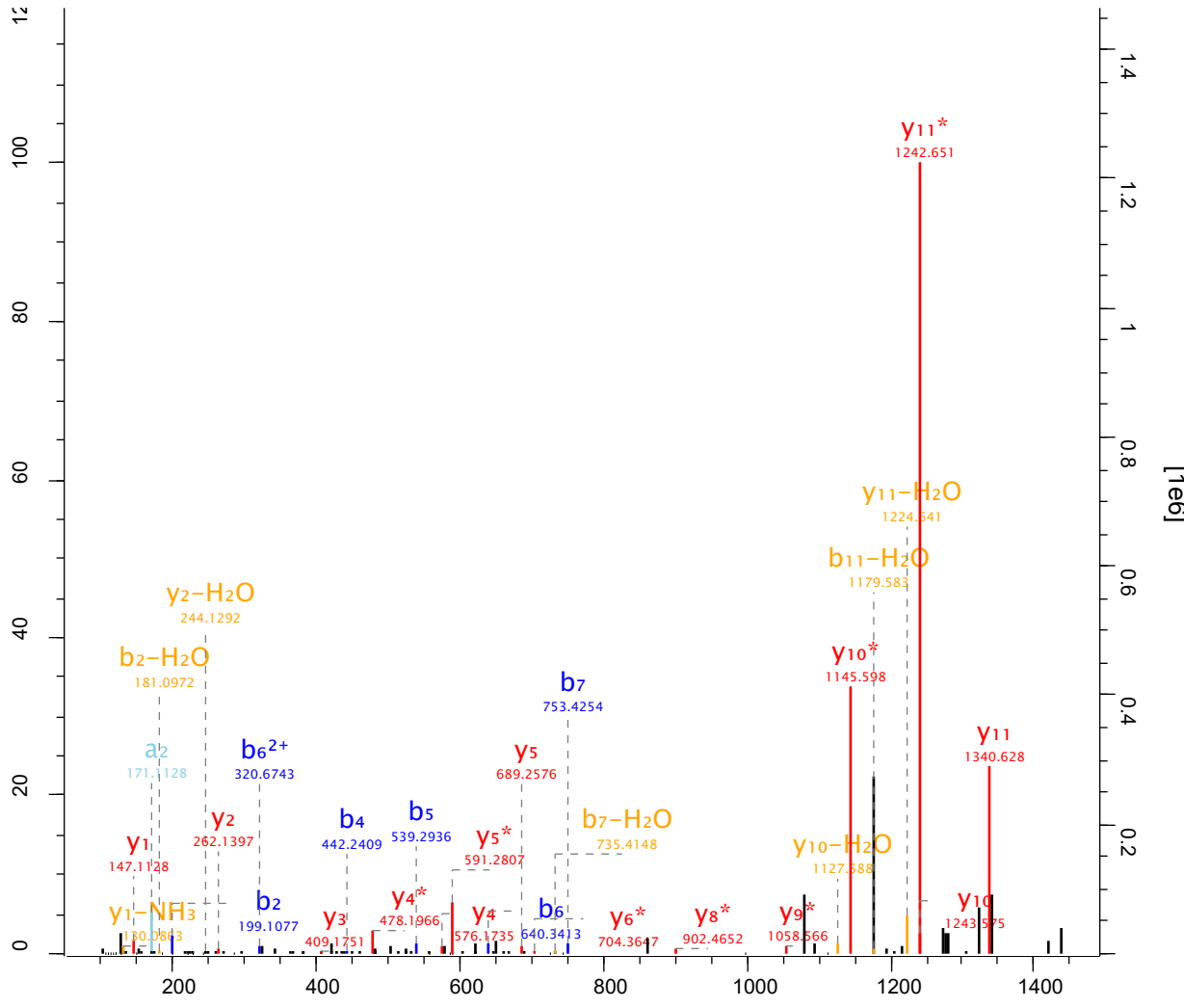
Raw file Scan Method Score m/z
 sys_02_2 8030 FTMS; HCD 46.32 450.87



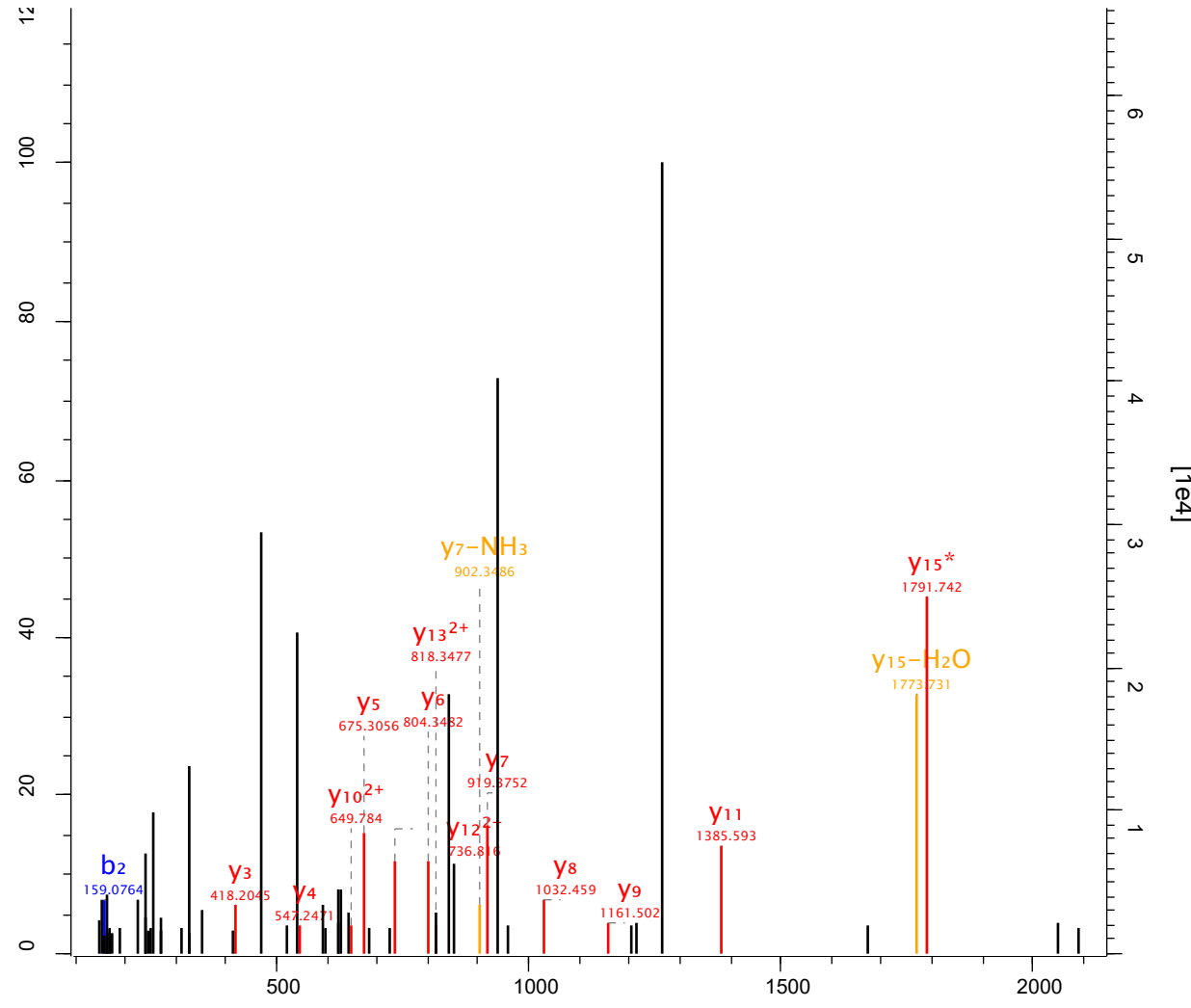
Raw file Scan Method Score m/z
 sys_02_2 8055 FTMS; HCD 66.27 552.75



Raw file Scan Method Score m/z
 sys_02_2 8097 FTMS; HCD 104.26 481.23

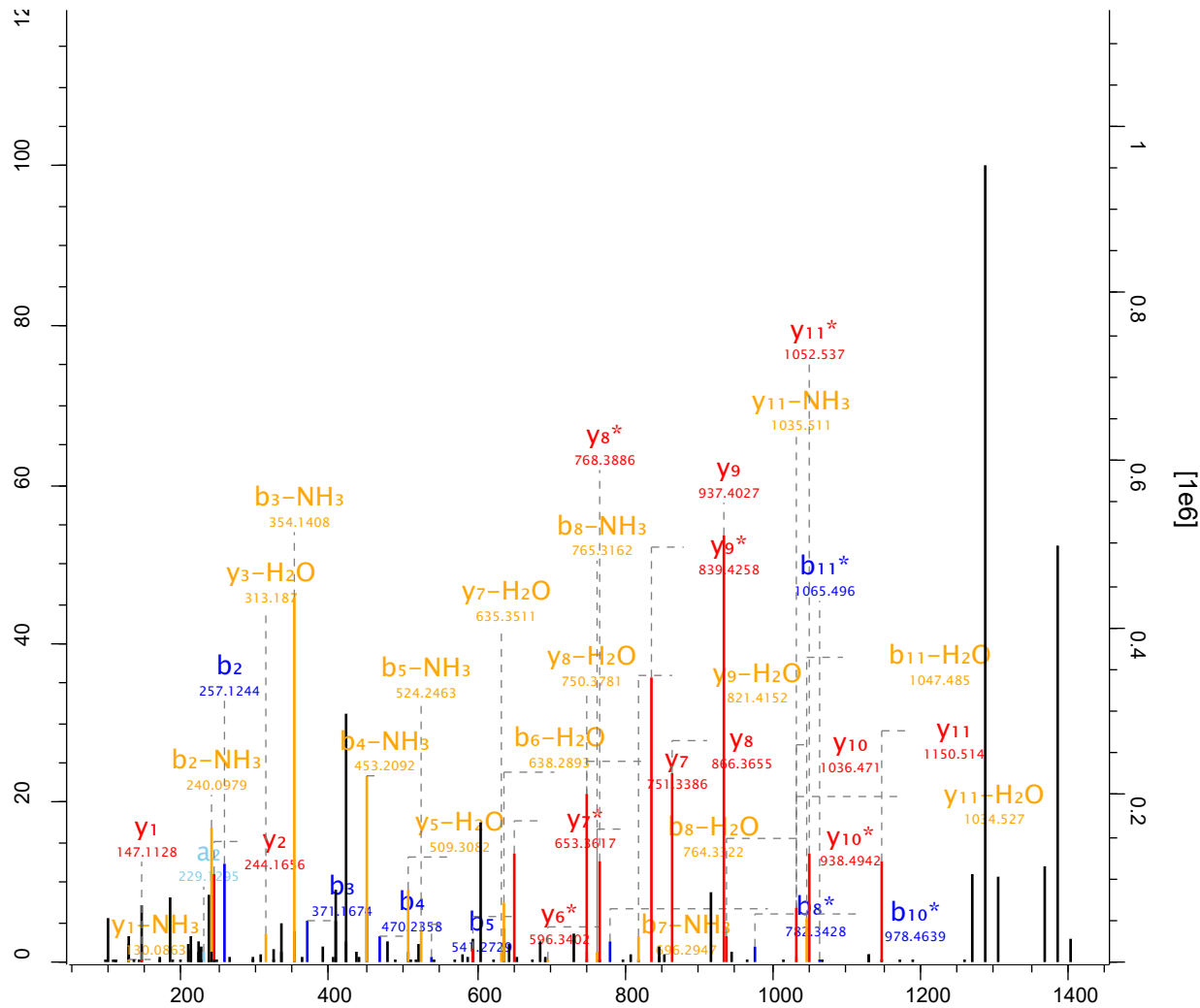


Raw file Scan Method Score m/z
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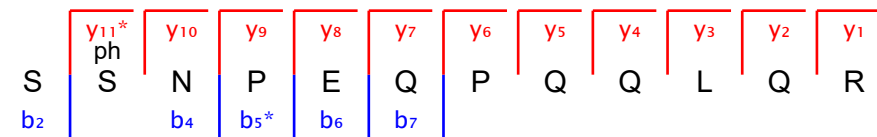
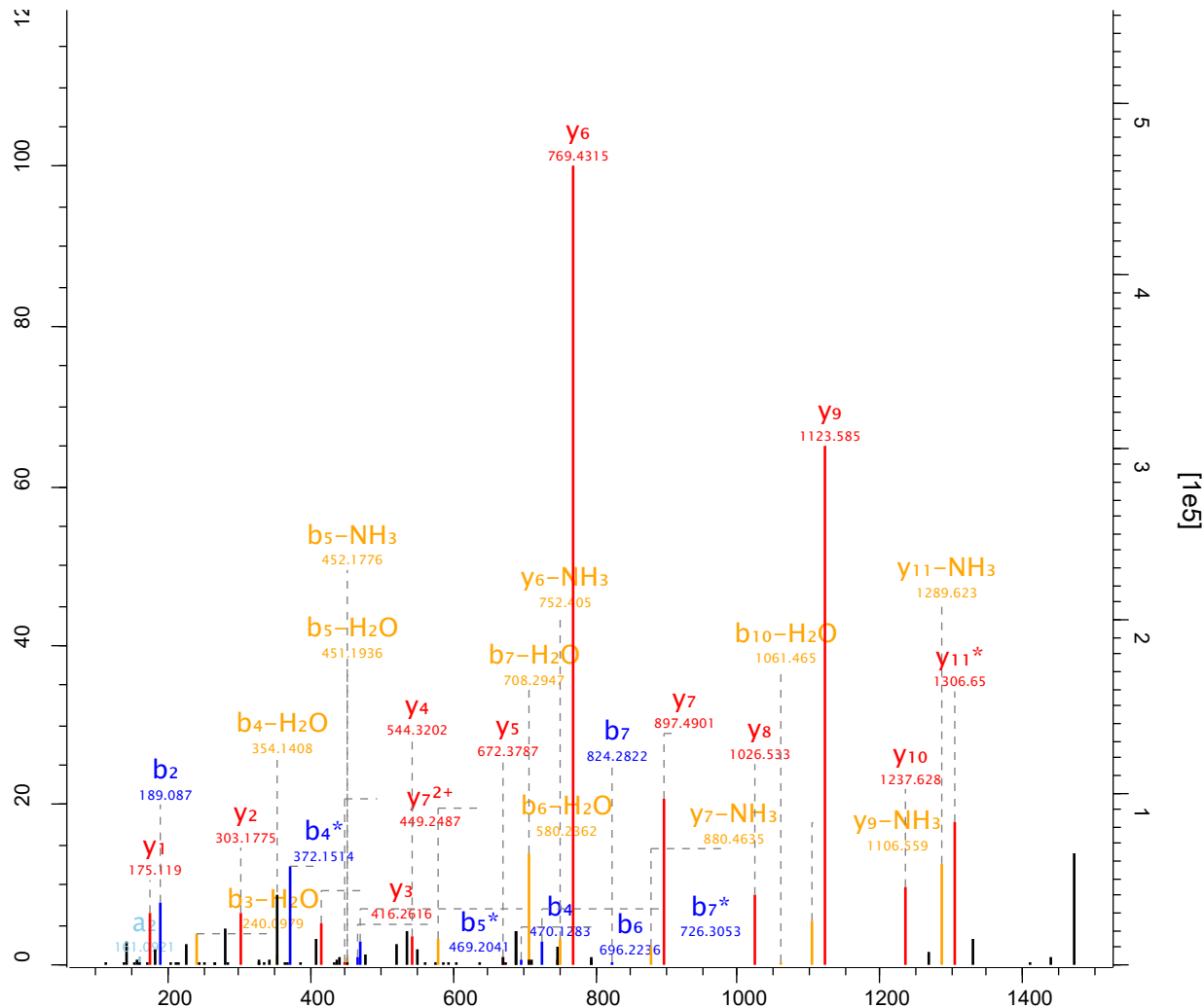


- A S S Y S S H E I D E Q E N
 b2 y15* ph y13^2+ y12^2+ y11 y10^2+ y9 y8 y7 y6 y5 y4 y3
 E R -

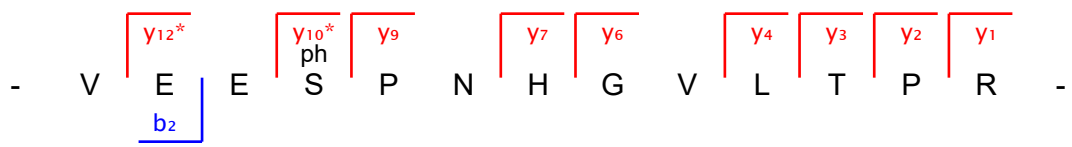
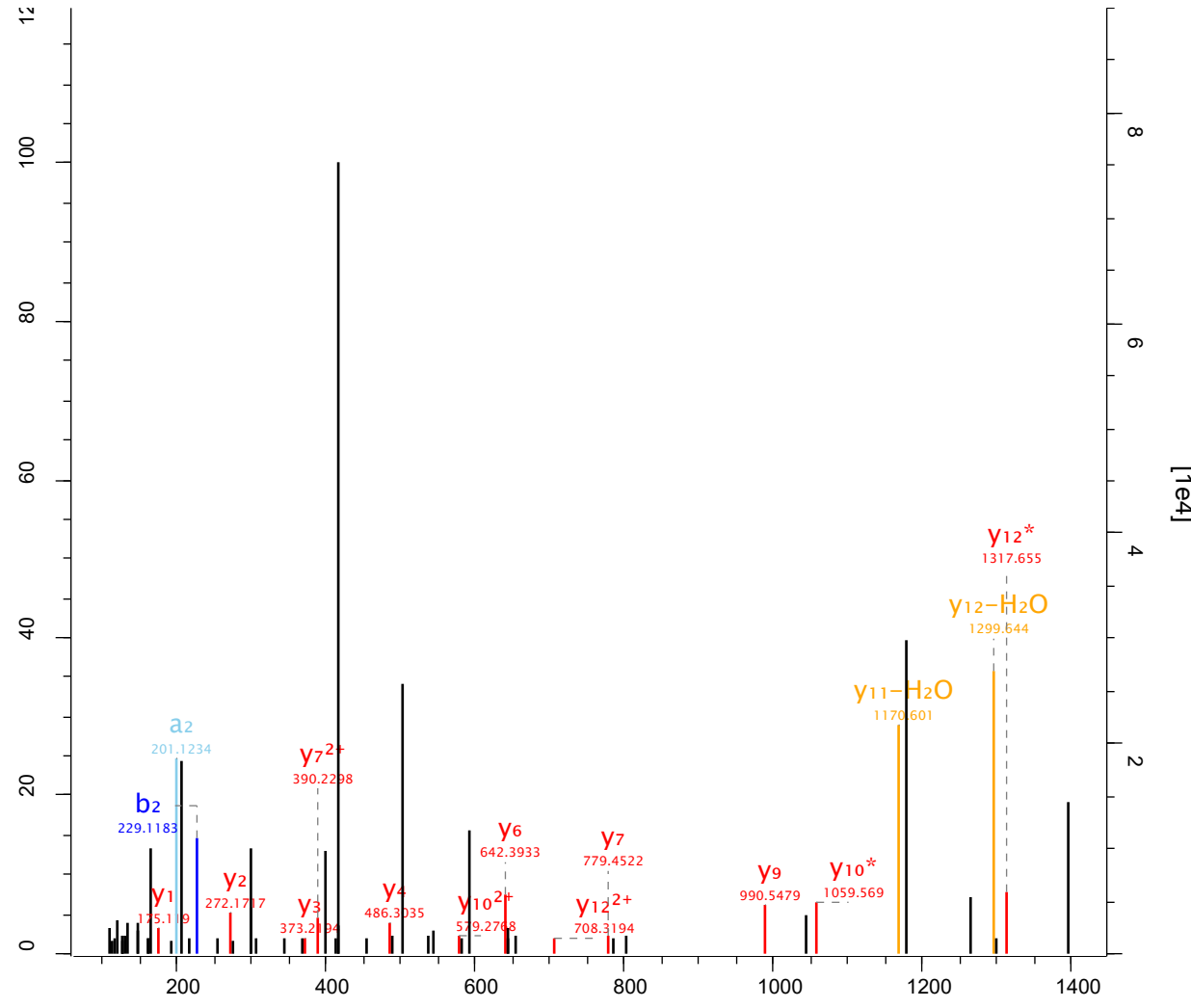
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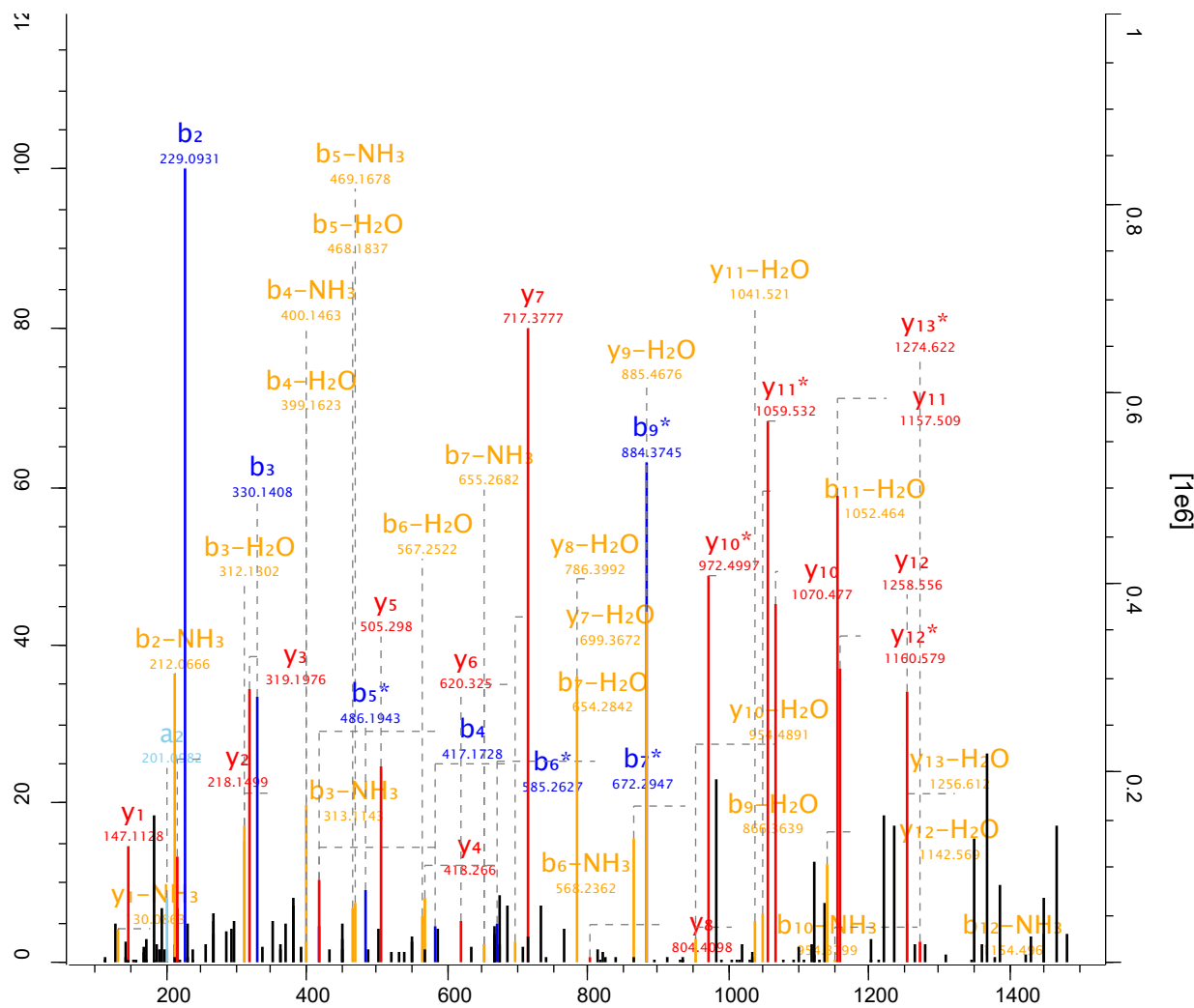
Raw file Scan Method Score m/z
 sys_02_2 8199 FTMS; HCD 115.56 796.86



Raw file	Scan	Method	Score	m/z
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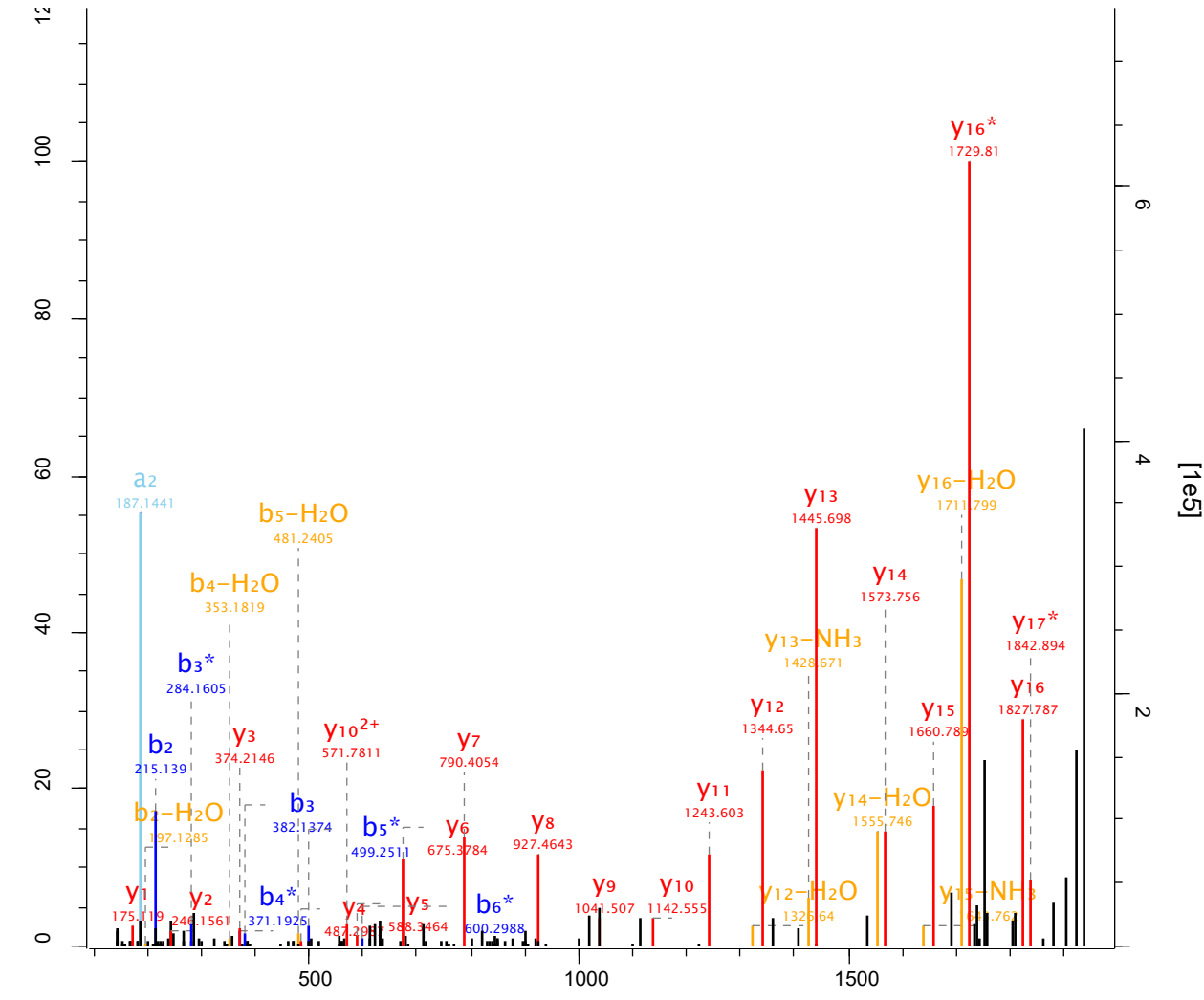
Raw file Scan Method Score m/z
 sys_02_2 8410 FTMS; HCD 233.49 743.82



- N N T S S V S P D S V T A K -

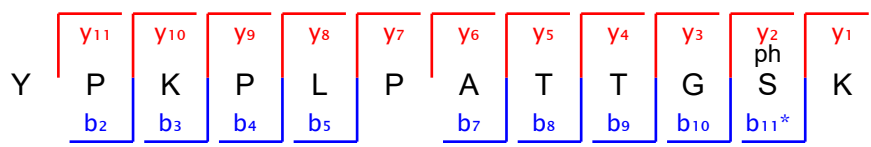
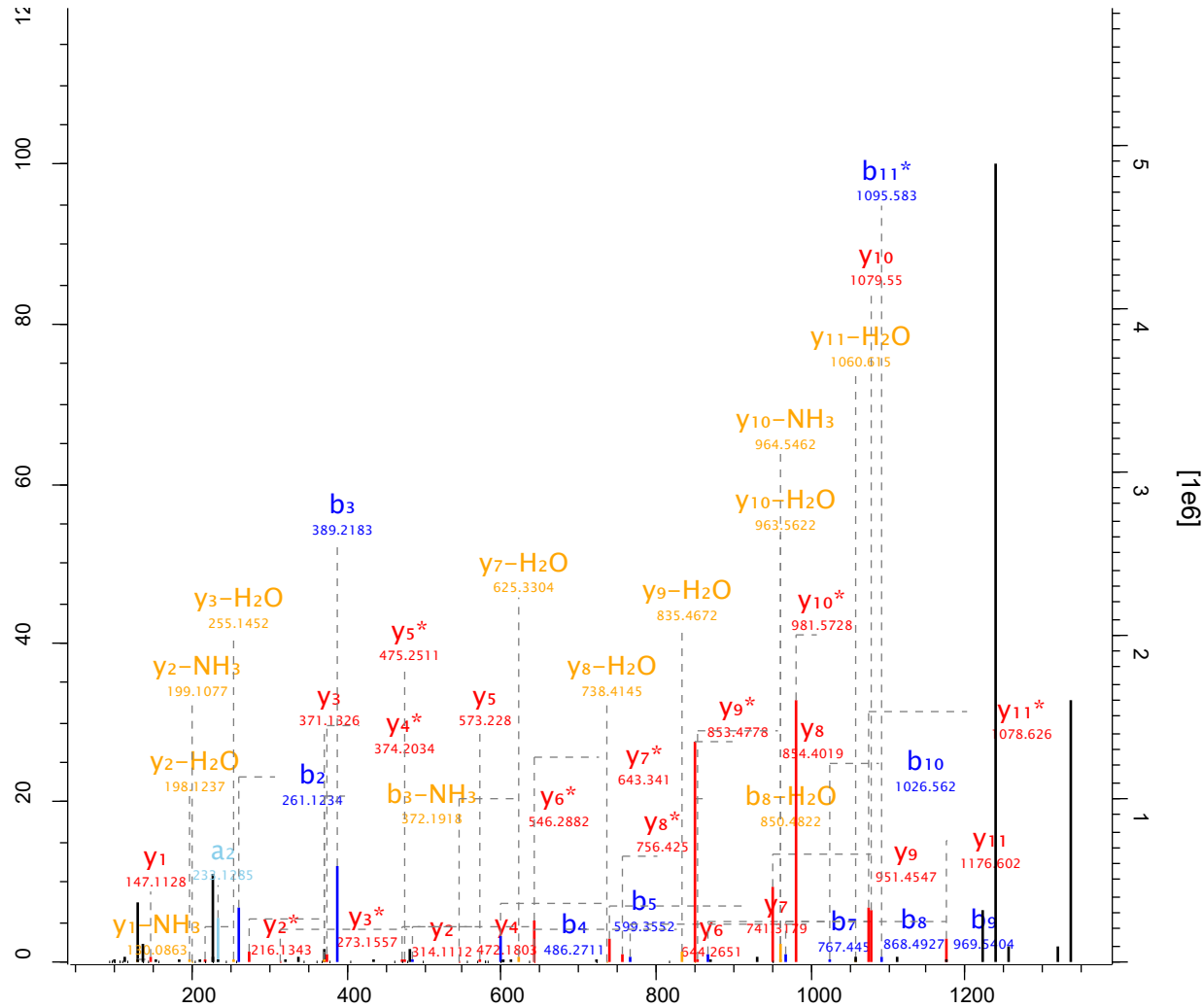
b₂
b₃
b₄
b₅^{*}
b₆^{*}
b₇^{*}
b₉^{*}
y₁₃^{*}
y₁₂
y₁₁
y₁₀^{ph}
y₈
y₇
y₆
y₅
y₄
y₃
y₂
y₁

Raw file Scan Method Score m/z
 sys_02_2 8459 FTMS; HCD 132.65 681.64

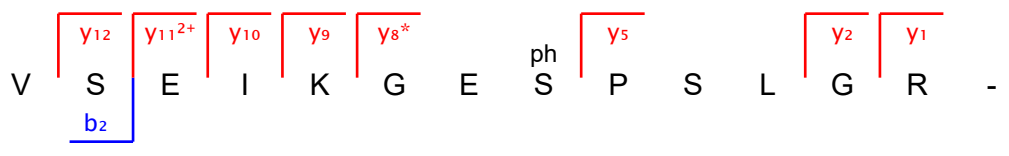
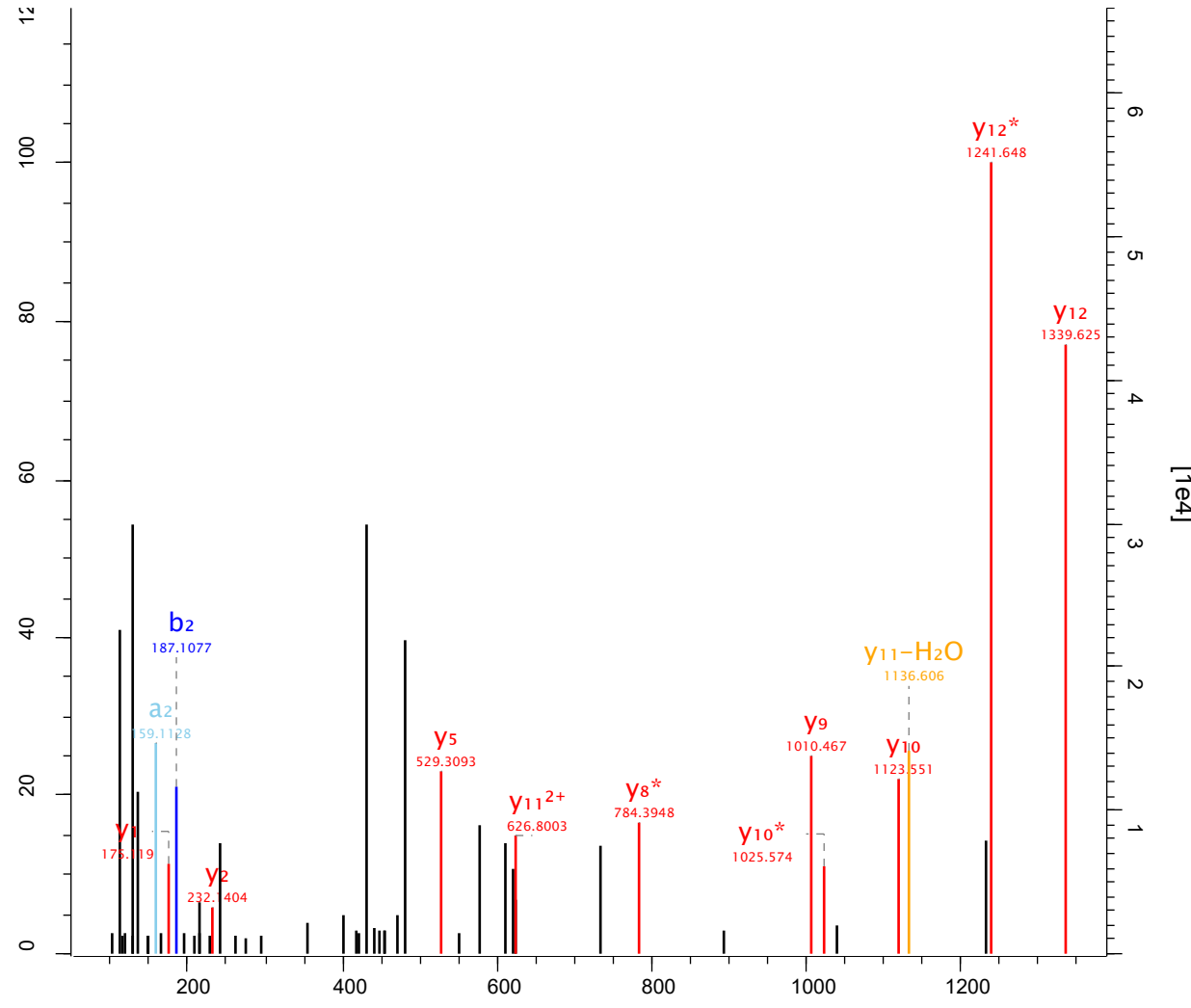


- T L S S Q T T T T N H D S T L
 y17* y16 ph y15 y14 y13 y12 y11 y10 y9 y8 y7 y6 y5 y4
 b2 b3 b4* b5* b6*
 Q A R -

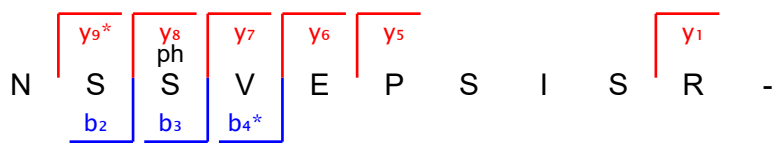
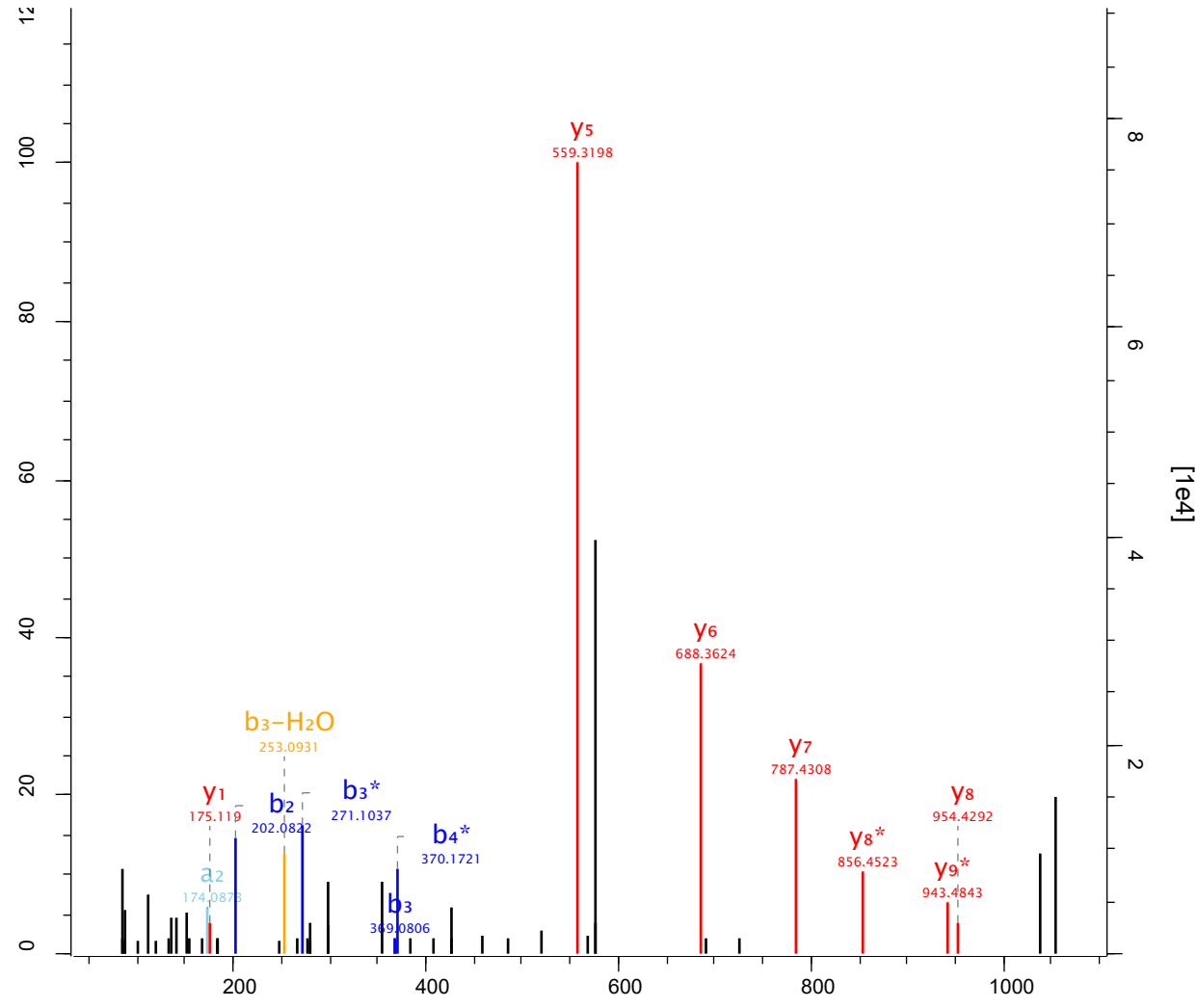
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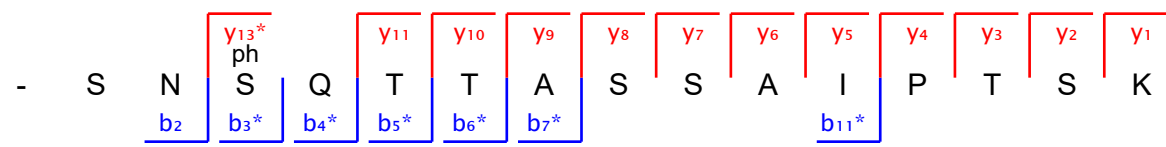
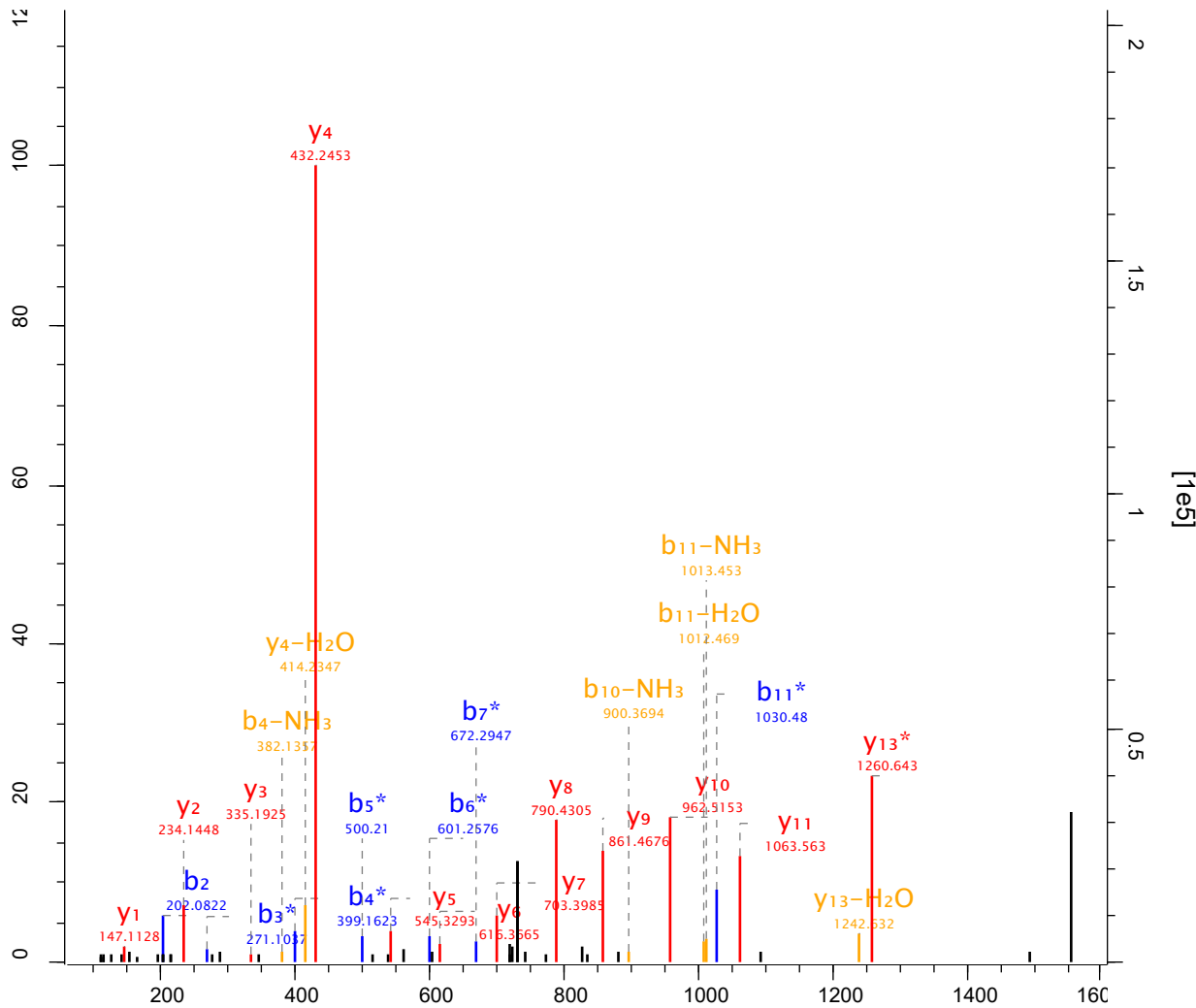
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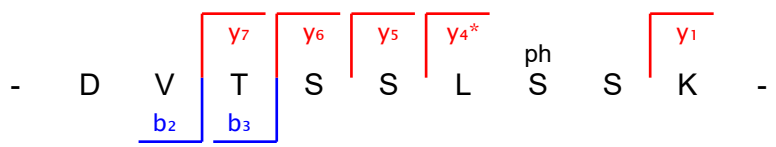
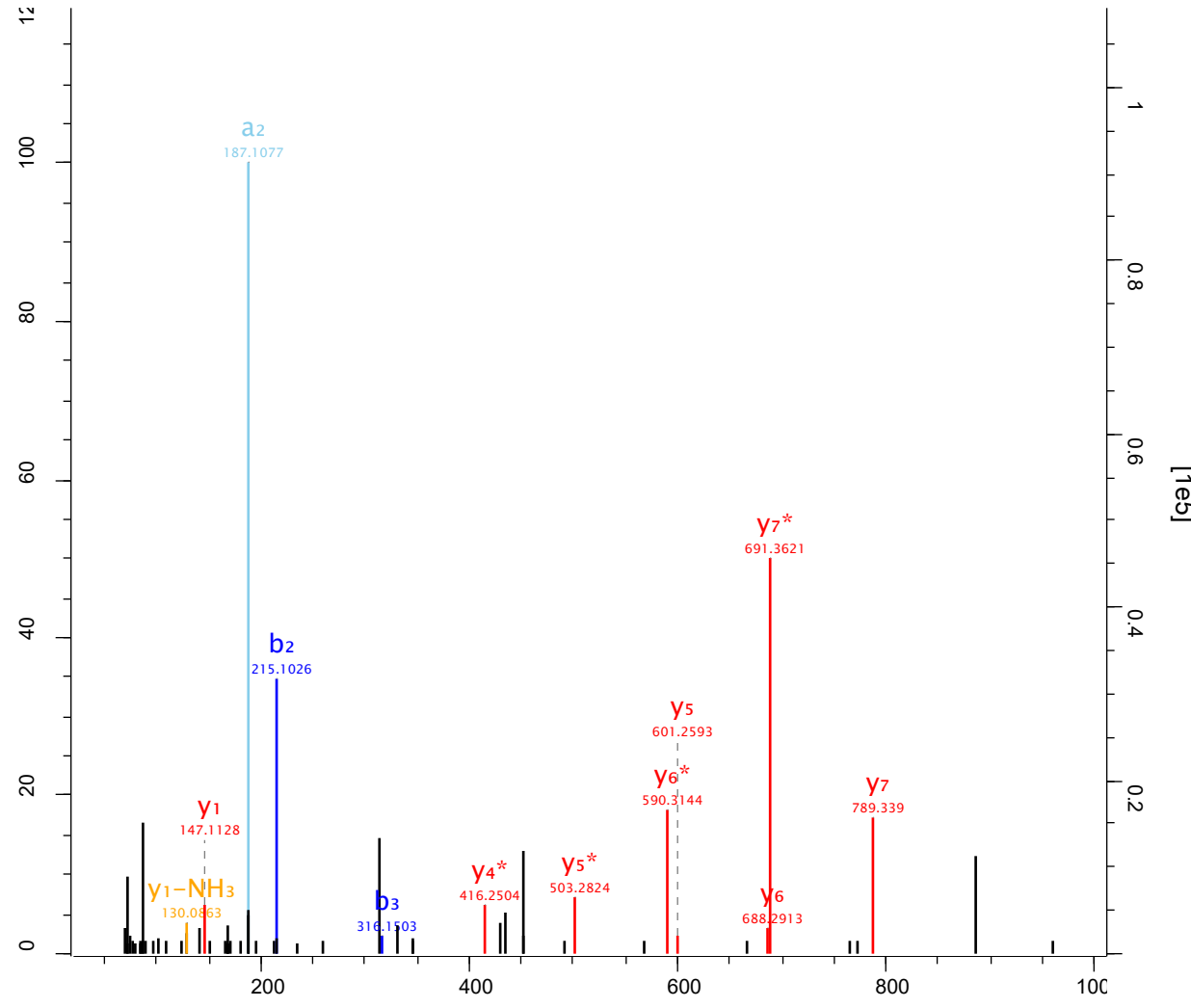
Raw file Scan Method Score m/z
 sys_02_2 8660 FTMS; HCD 57.43 578.26



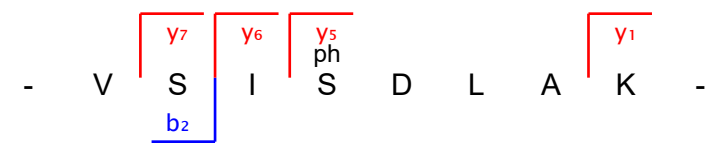
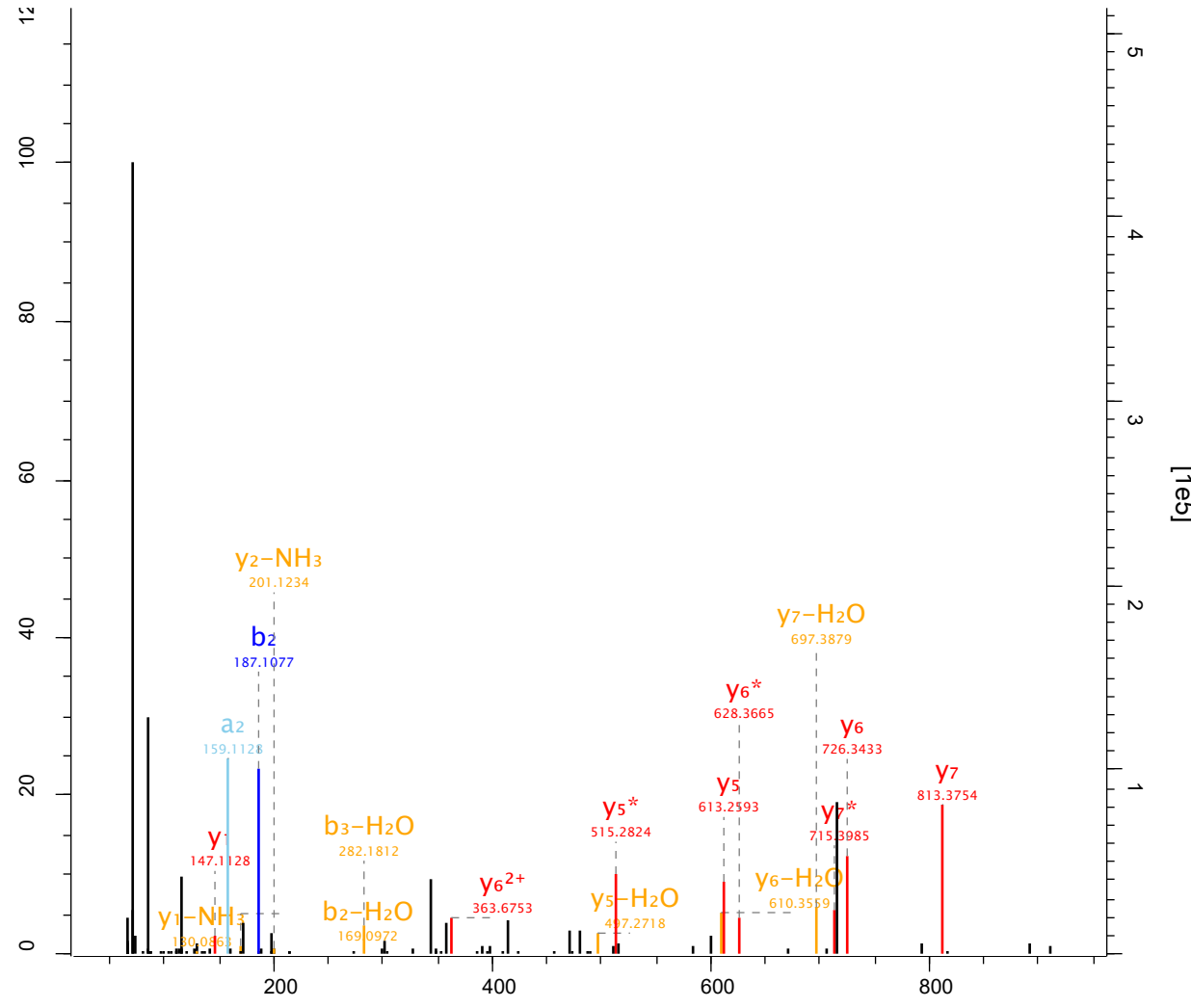
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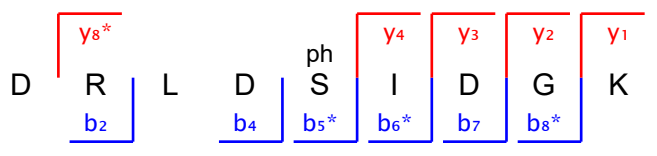
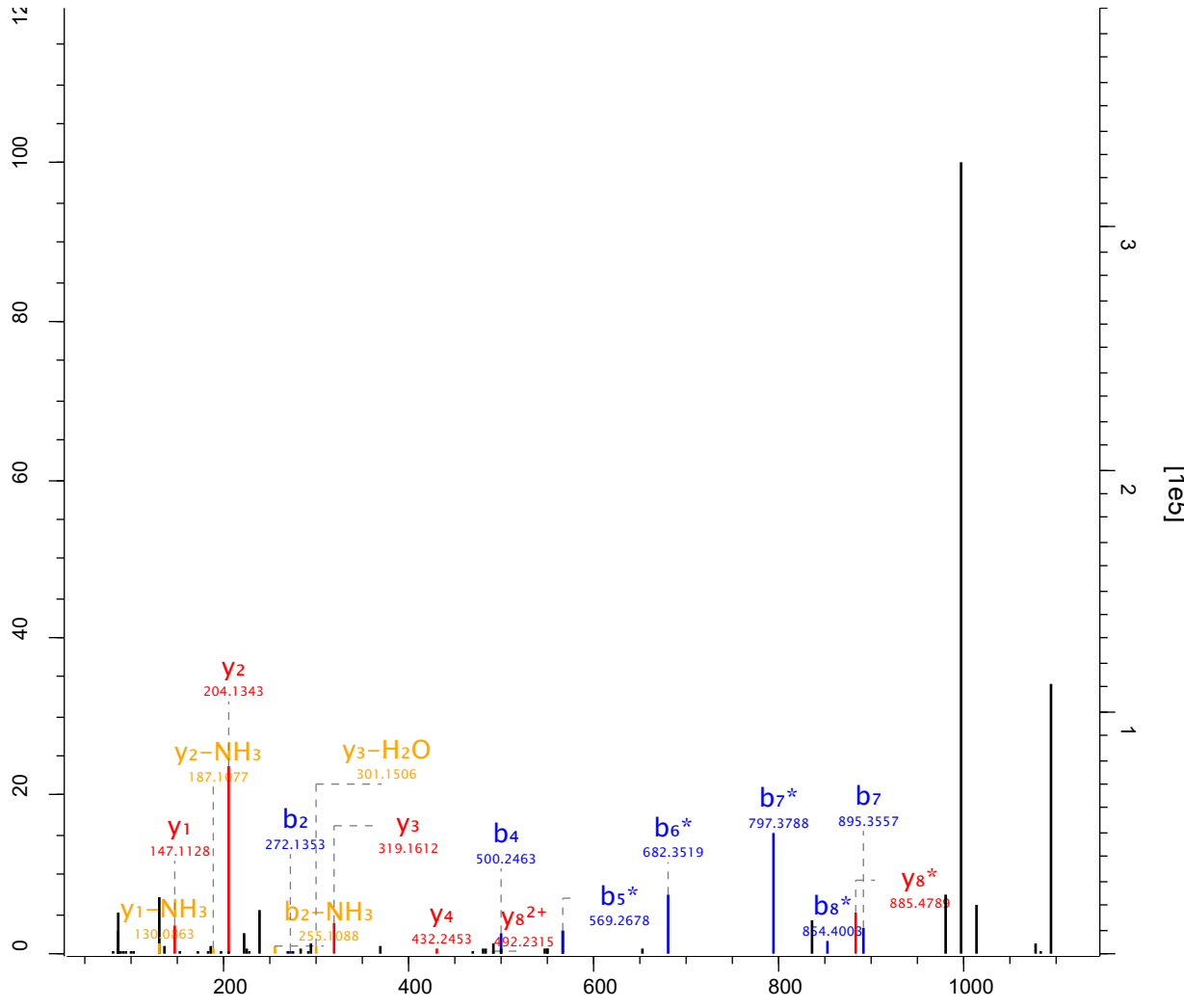
Raw file Scan Method Score m/z
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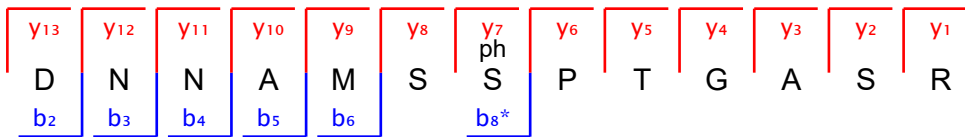
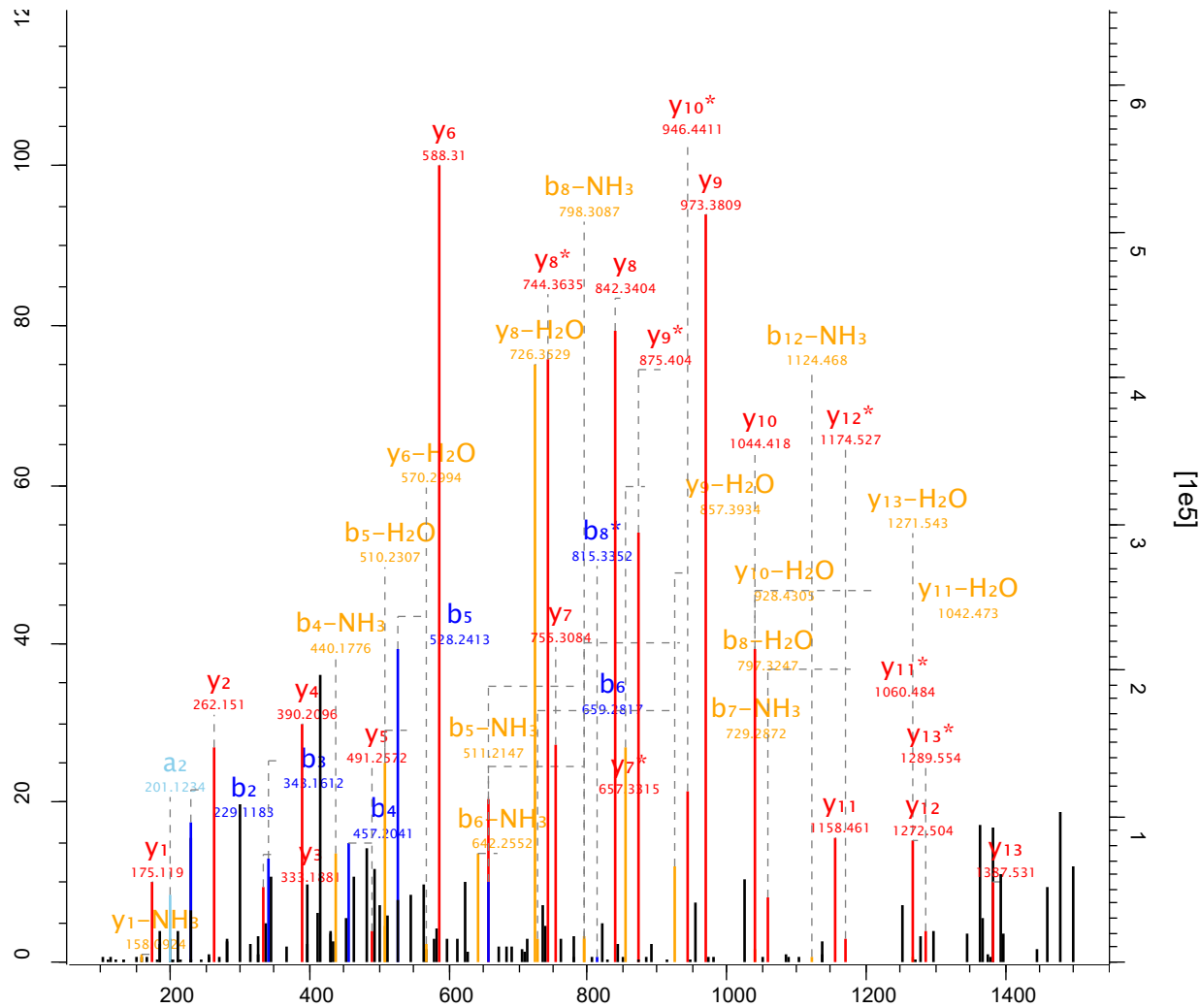
Raw file	Scan	Method	Score	m/z
sys_02_2	8902	FTMS; HCD	76.23	456.73



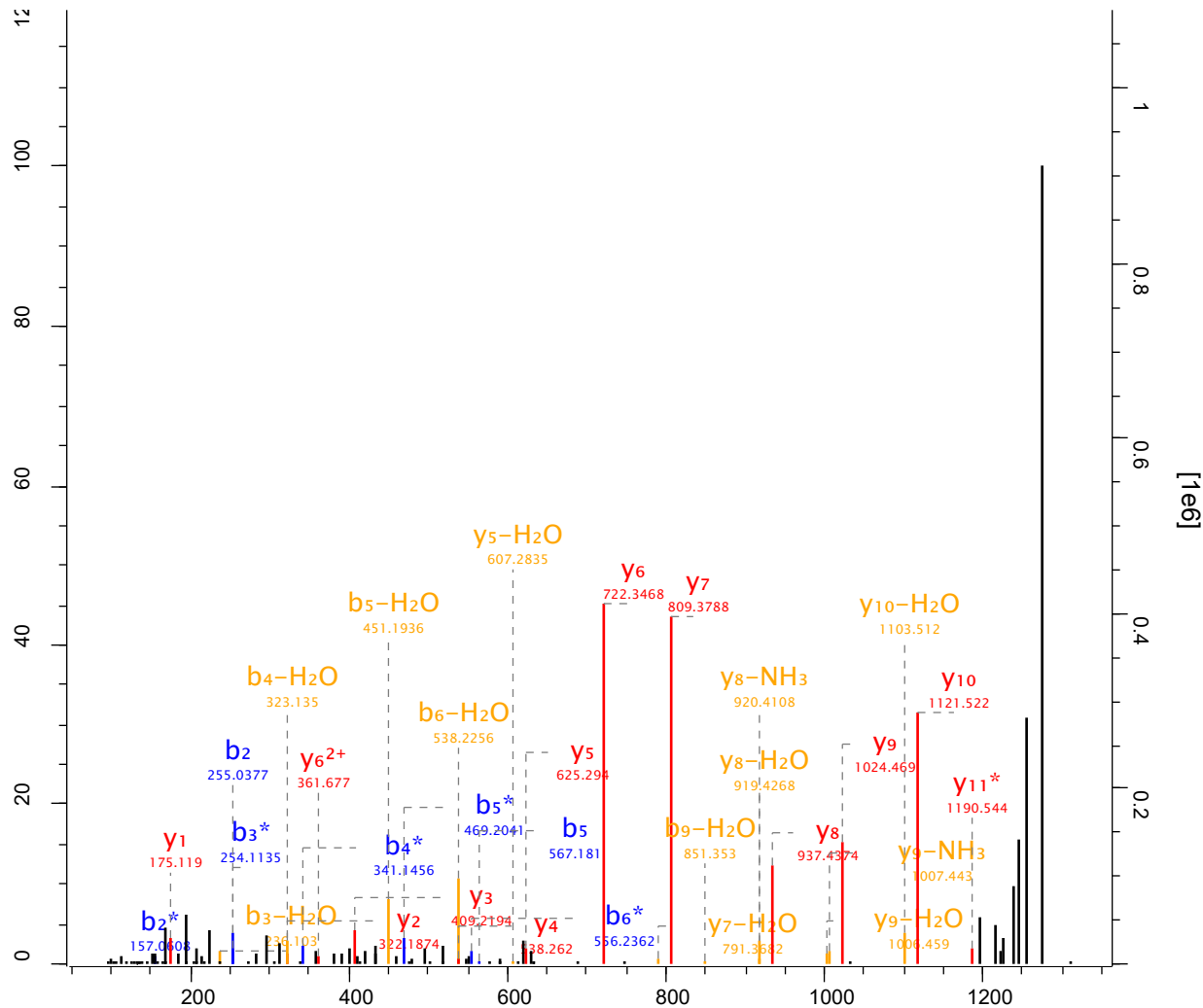
Raw file Scan Method Score m/z
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Raw file Scan Method Score m/z
 sys_02_2 8976 FTMS; HCD 233.79 750.81



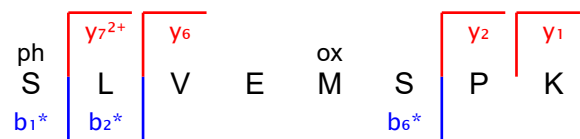
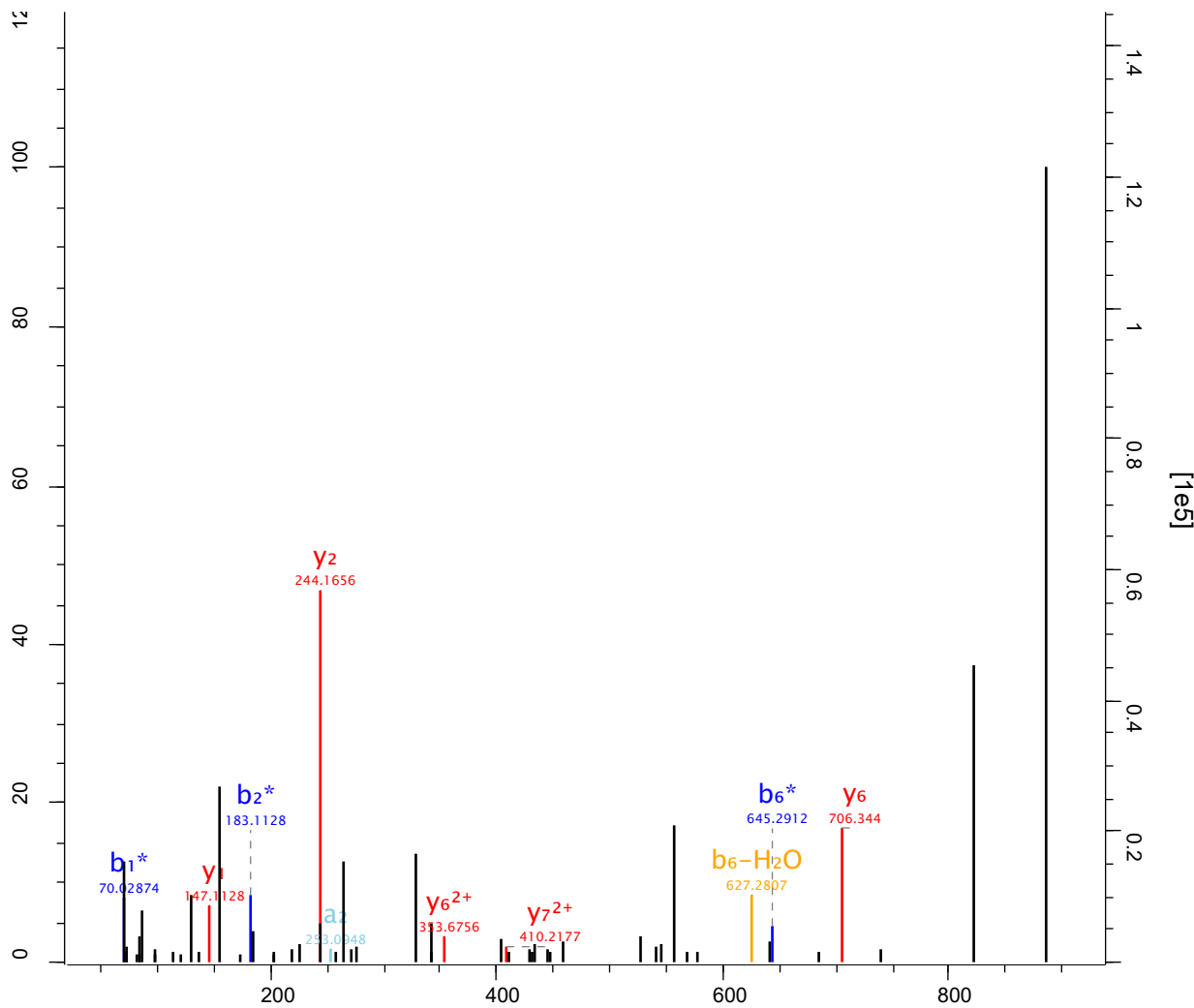
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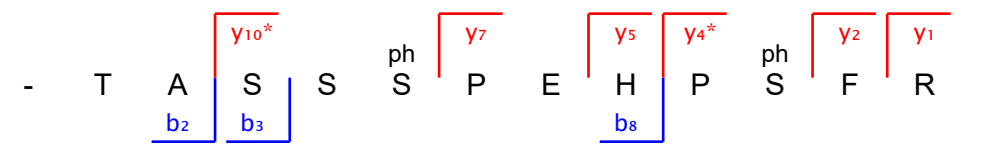
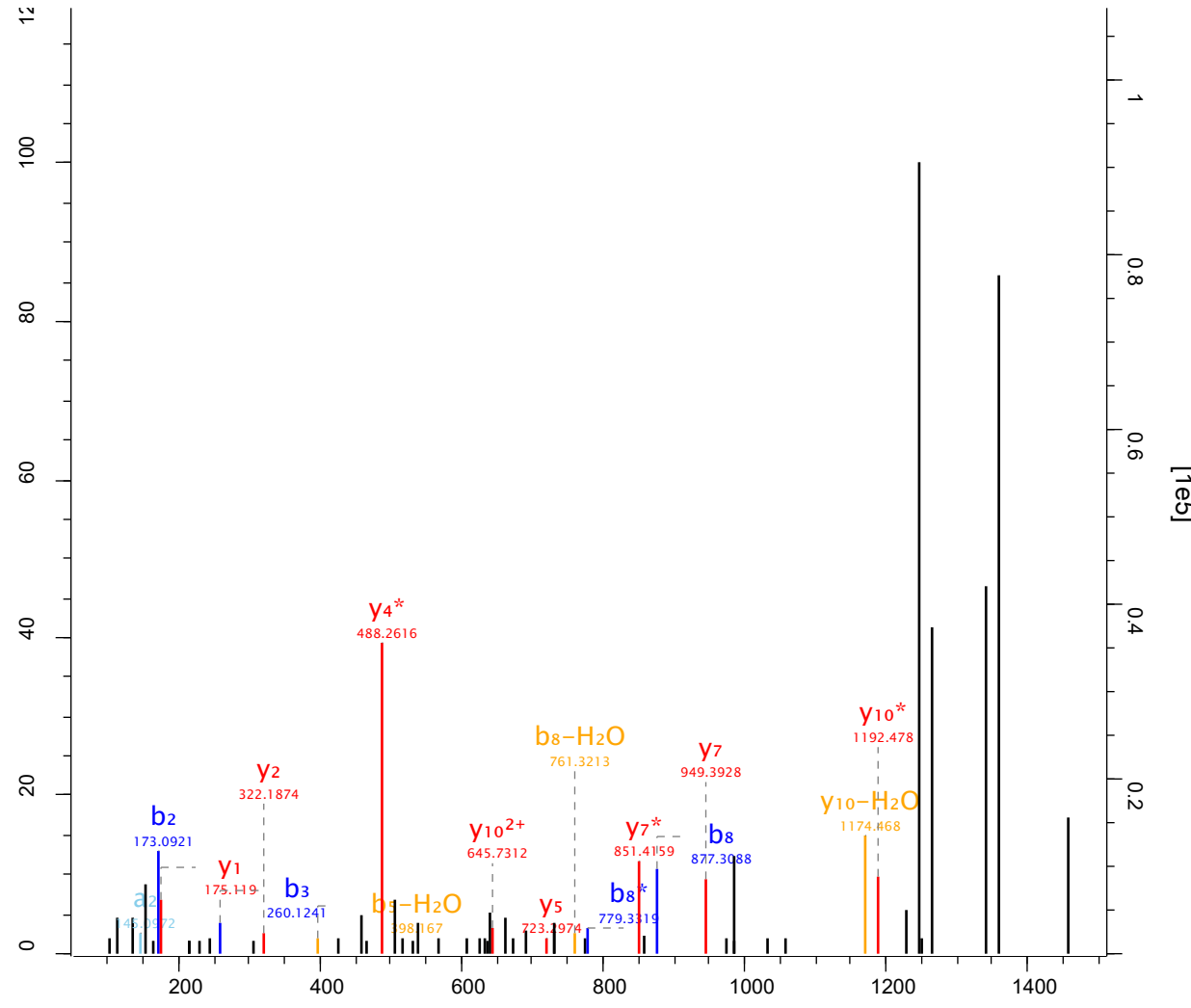
S y11*
ph y10 y9 y8 y7 y6 y5 y4 y3 y2 y1 -

S b2 b3* b4* b5 b6* P S E S F R -

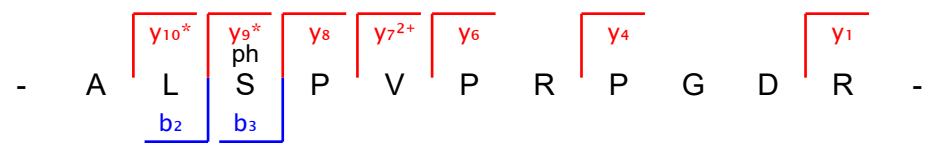
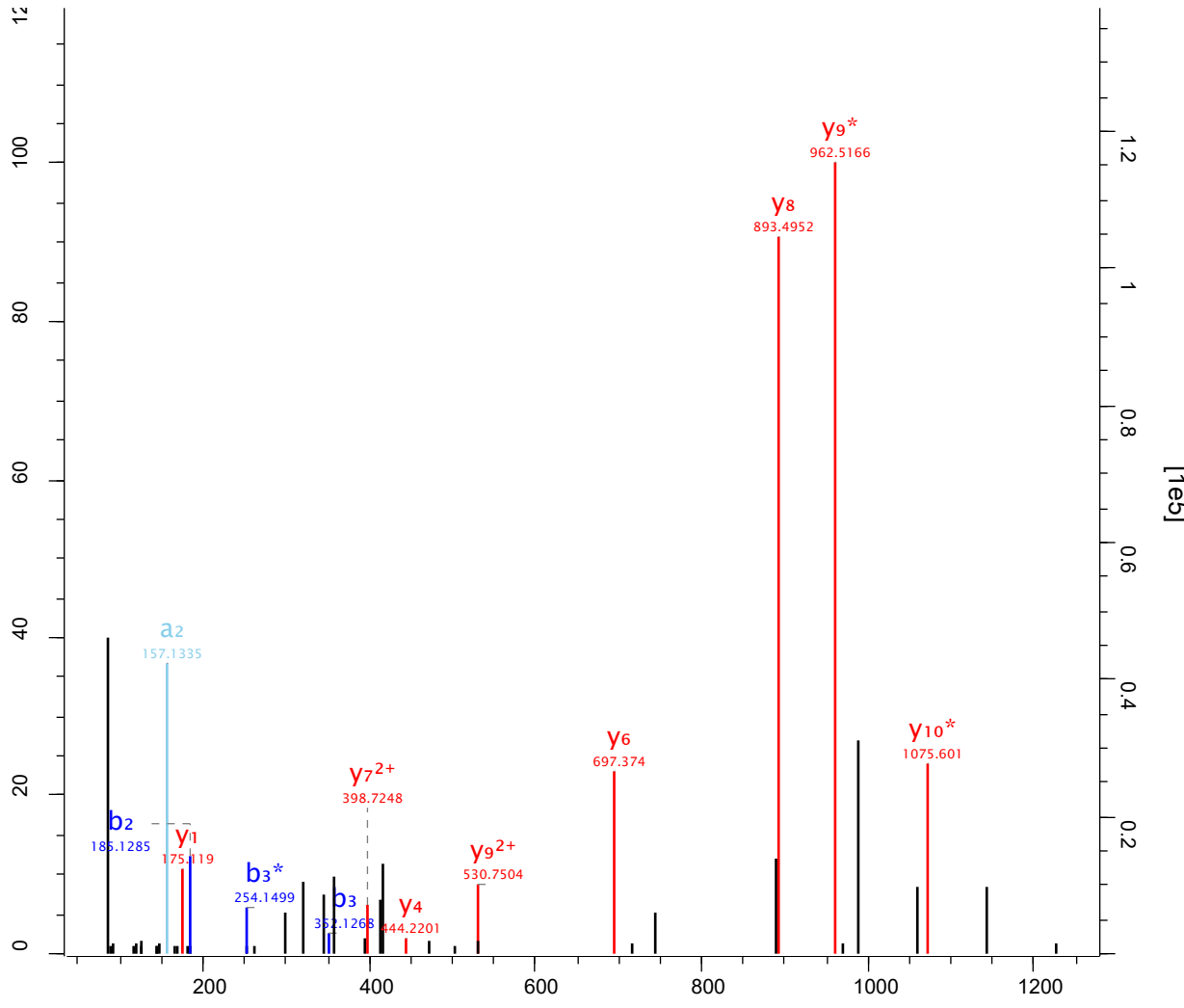
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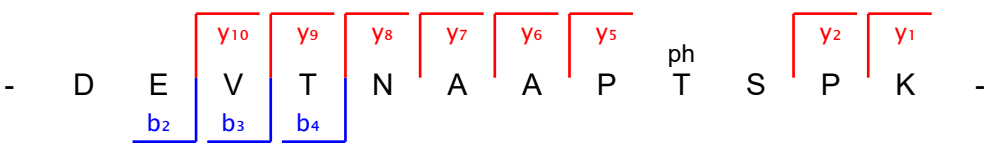
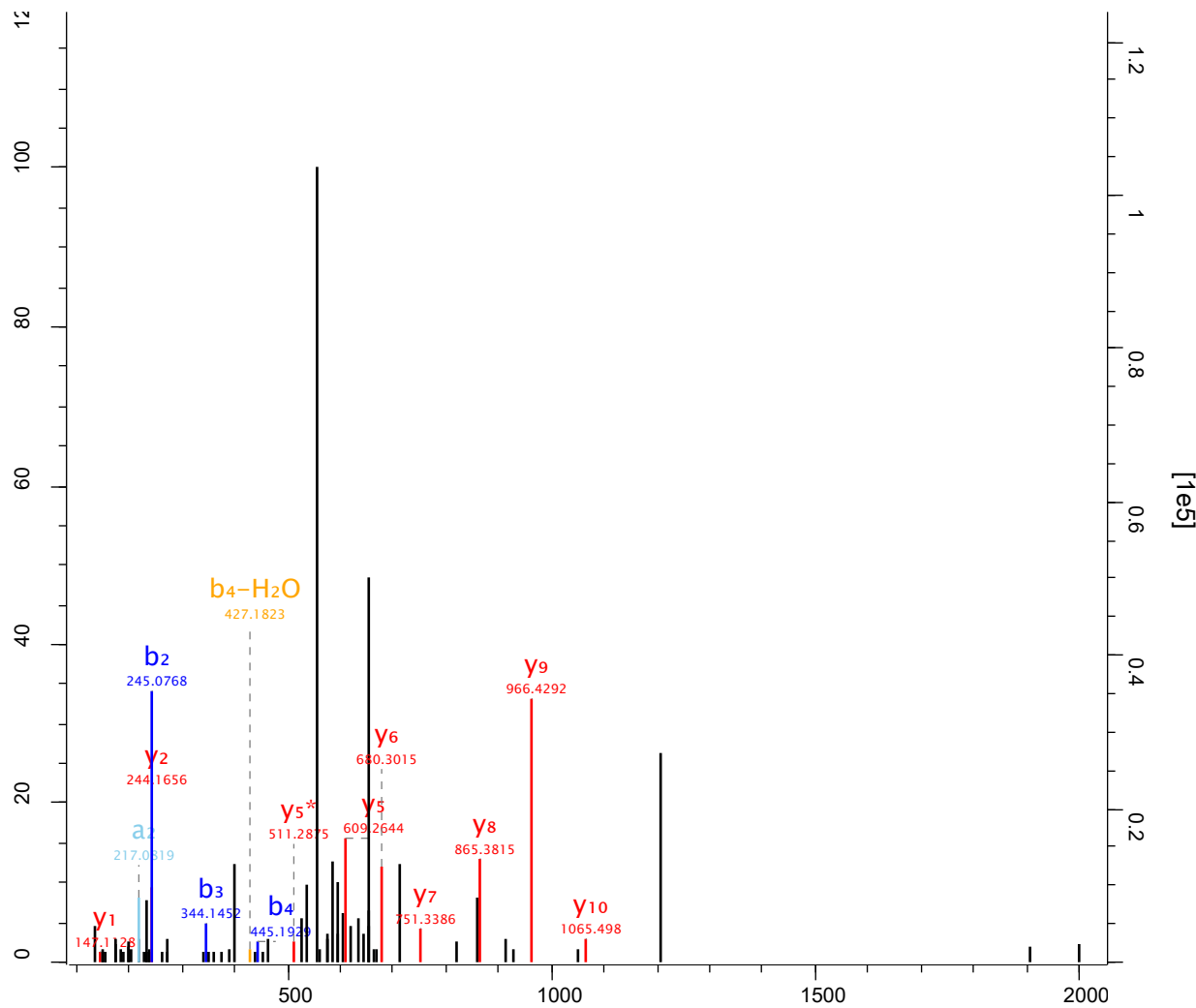
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sys_02_2	9085	FTMS; HCD	49.59	731.77



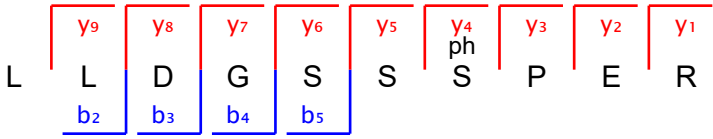
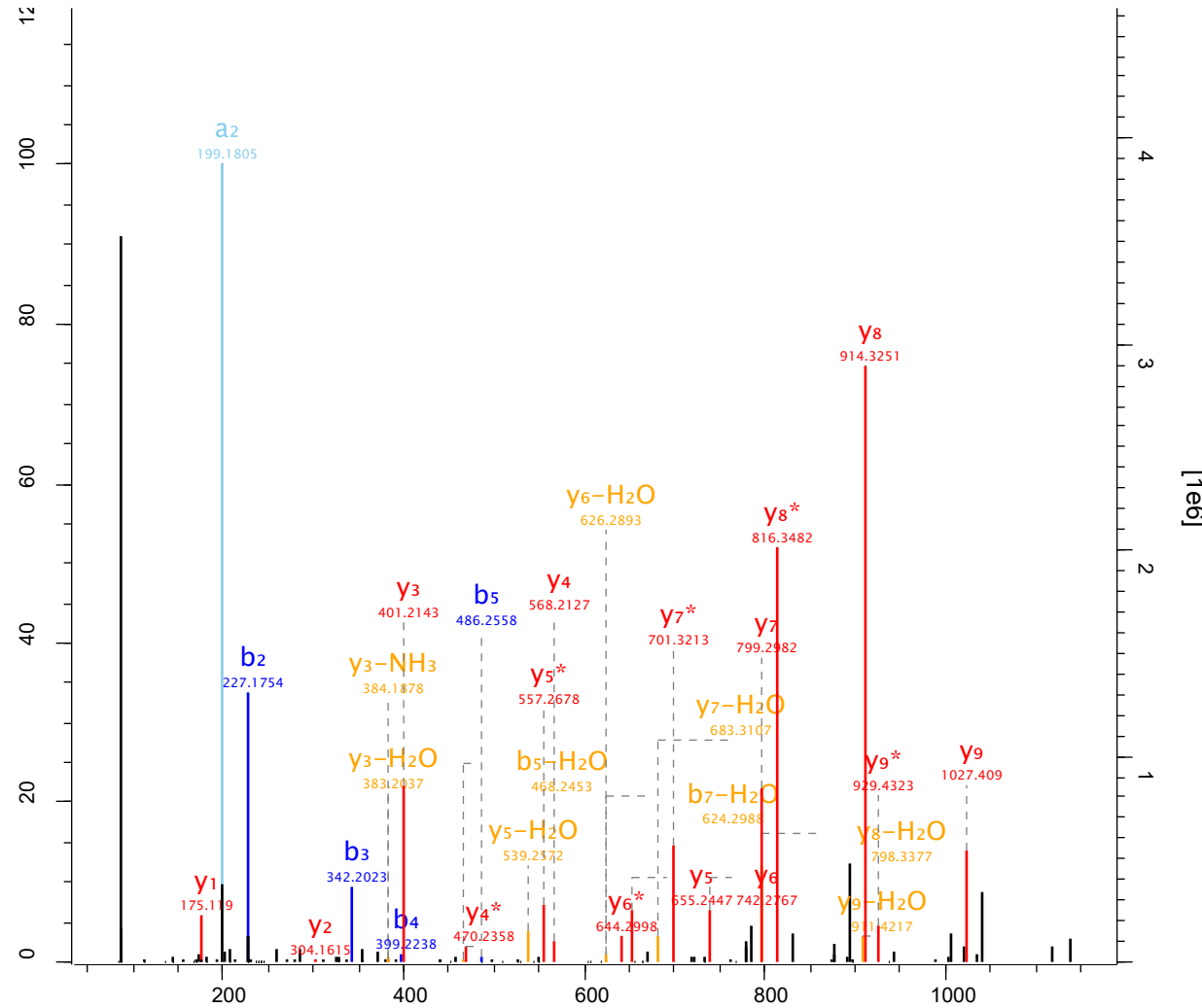
Raw file Scan Method Score m/z
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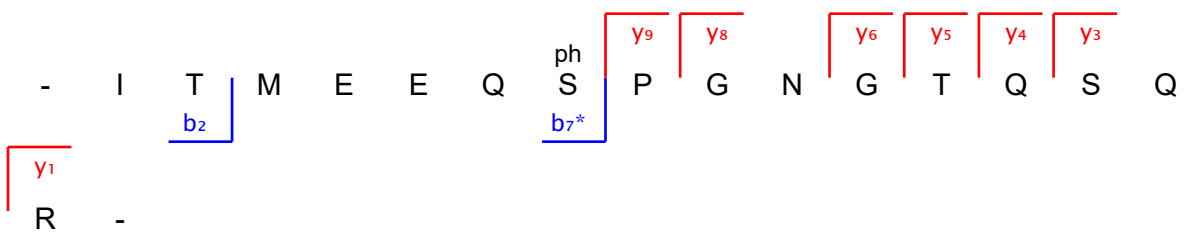
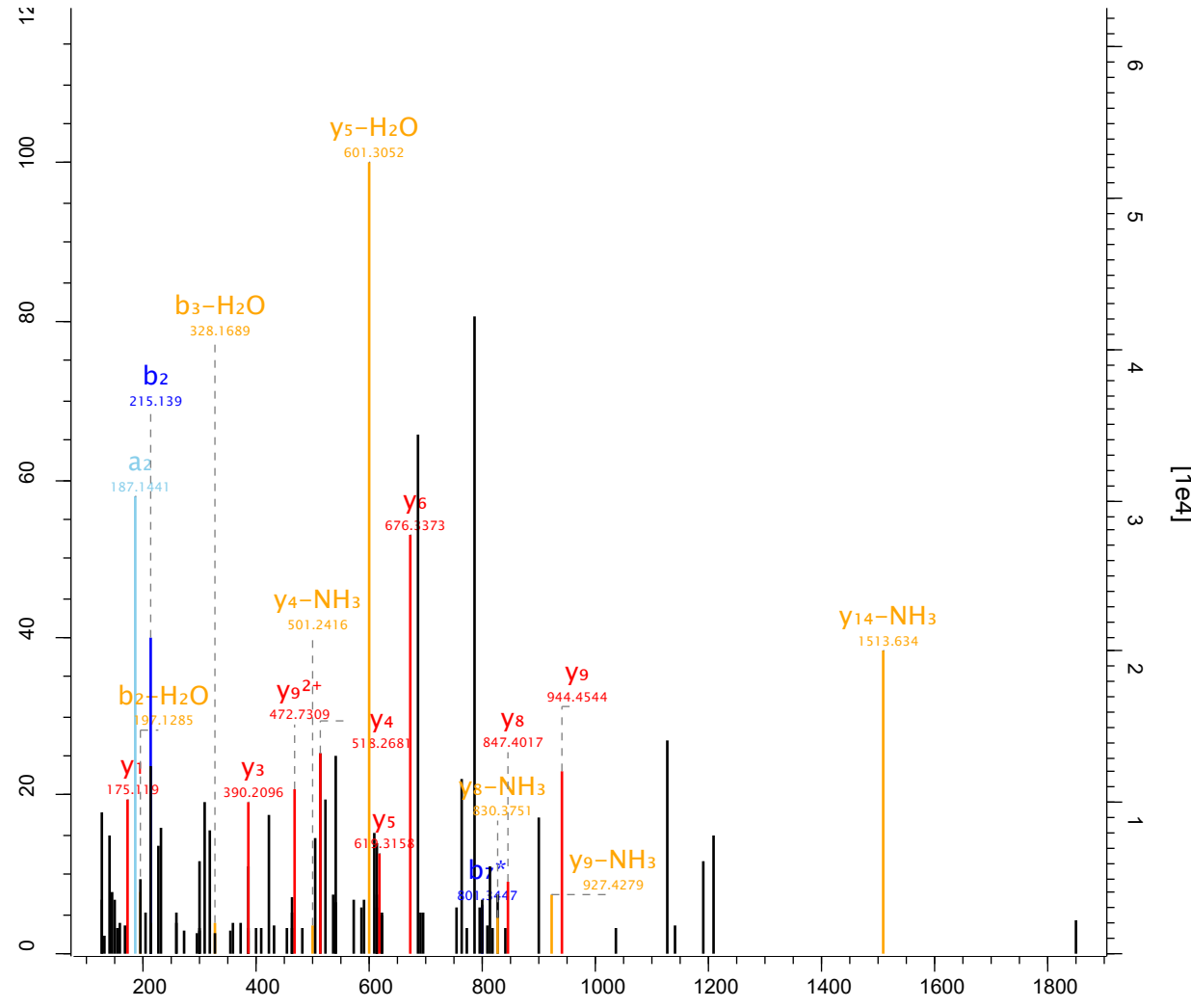
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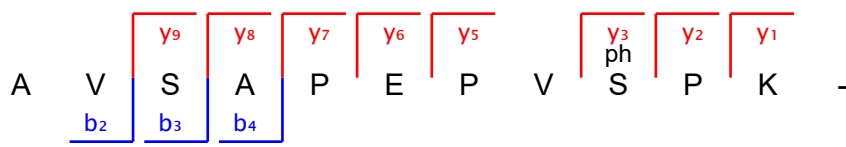
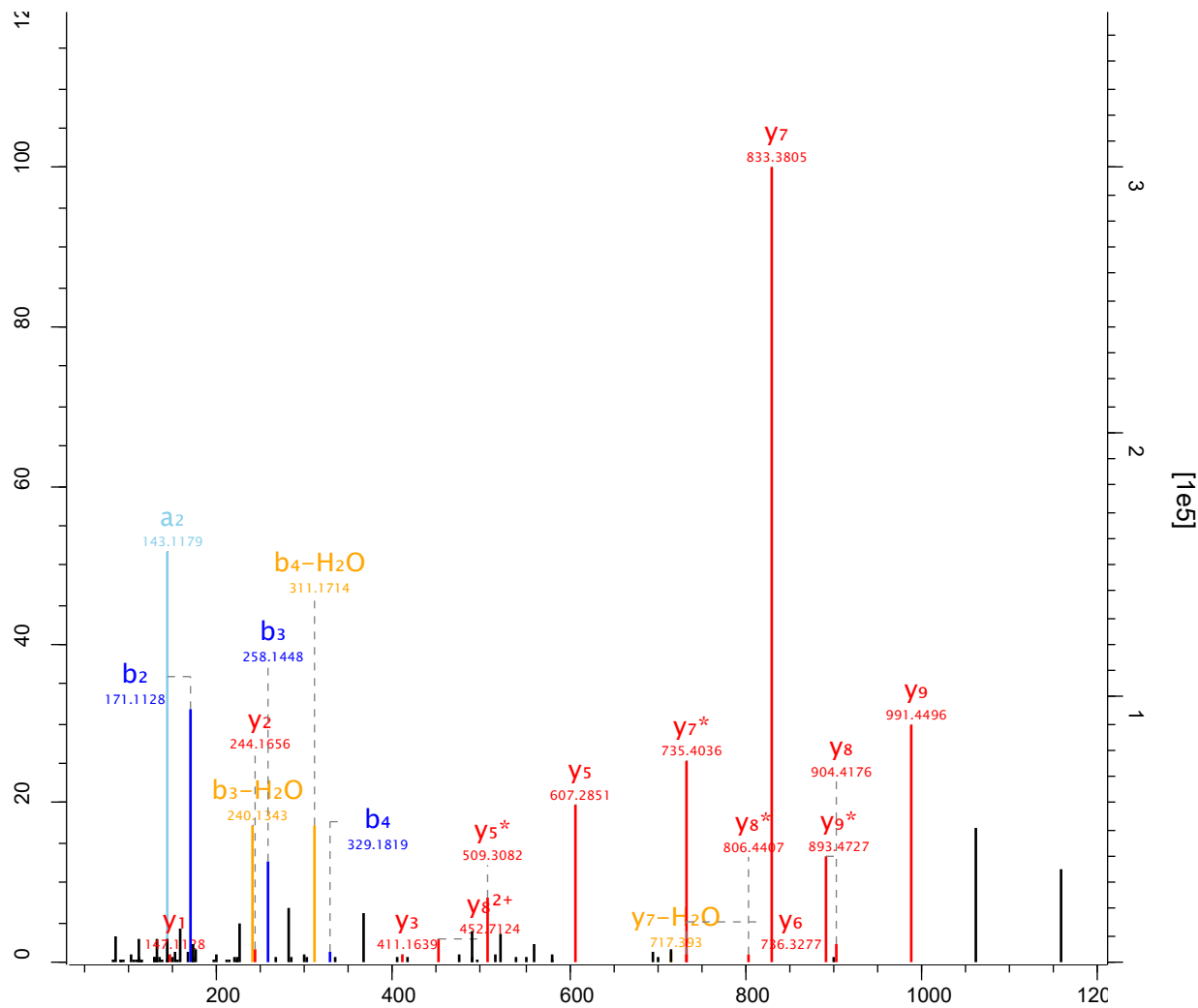
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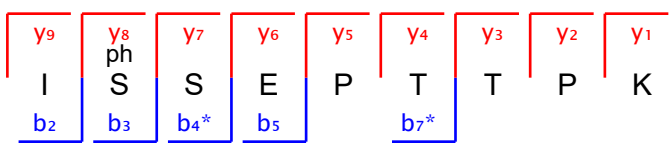
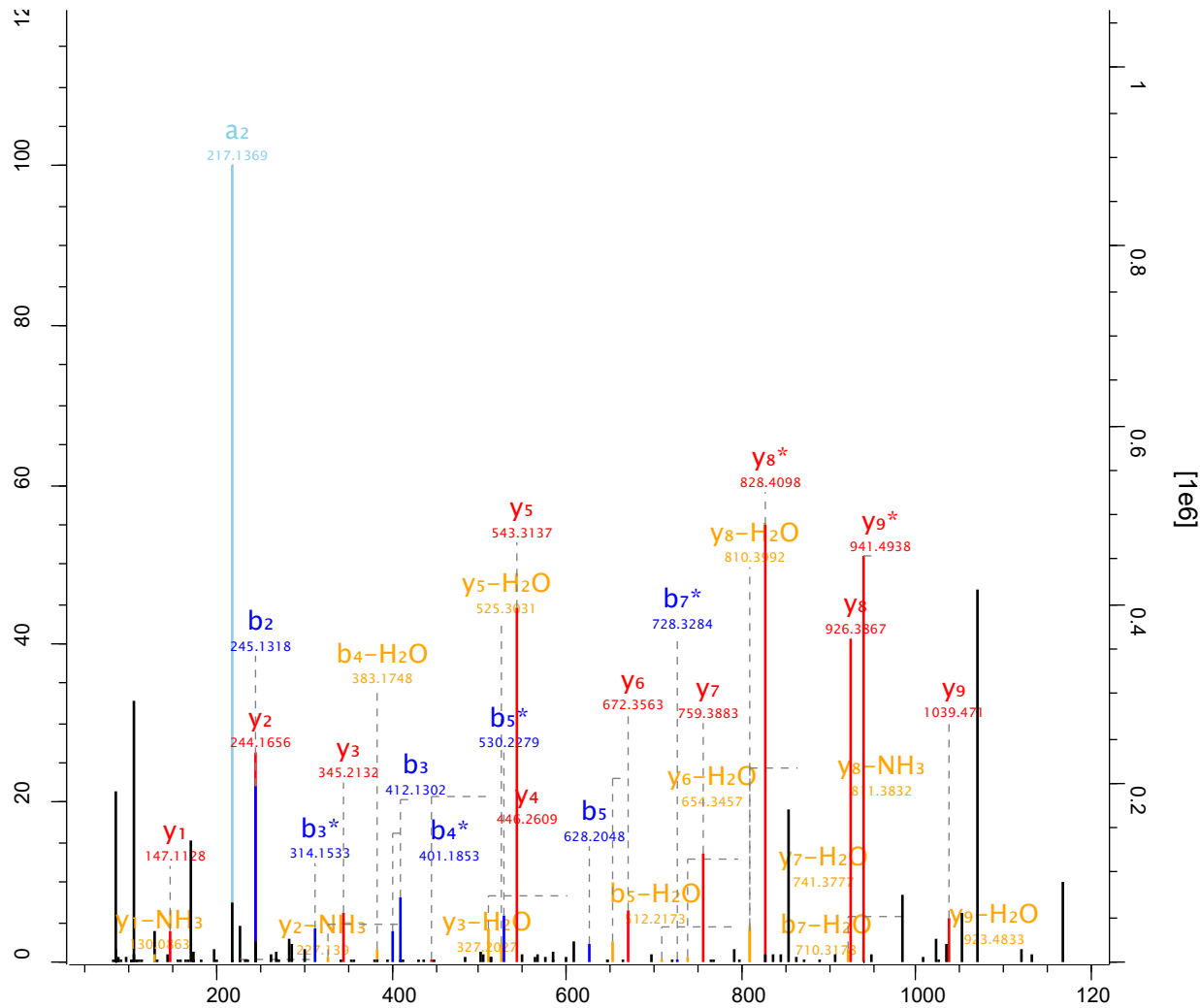
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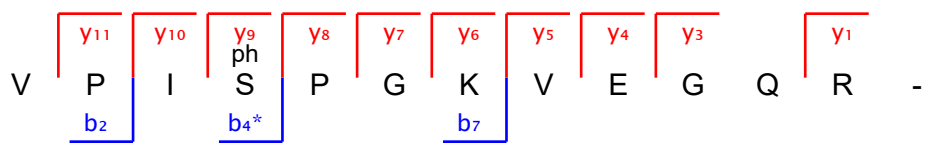
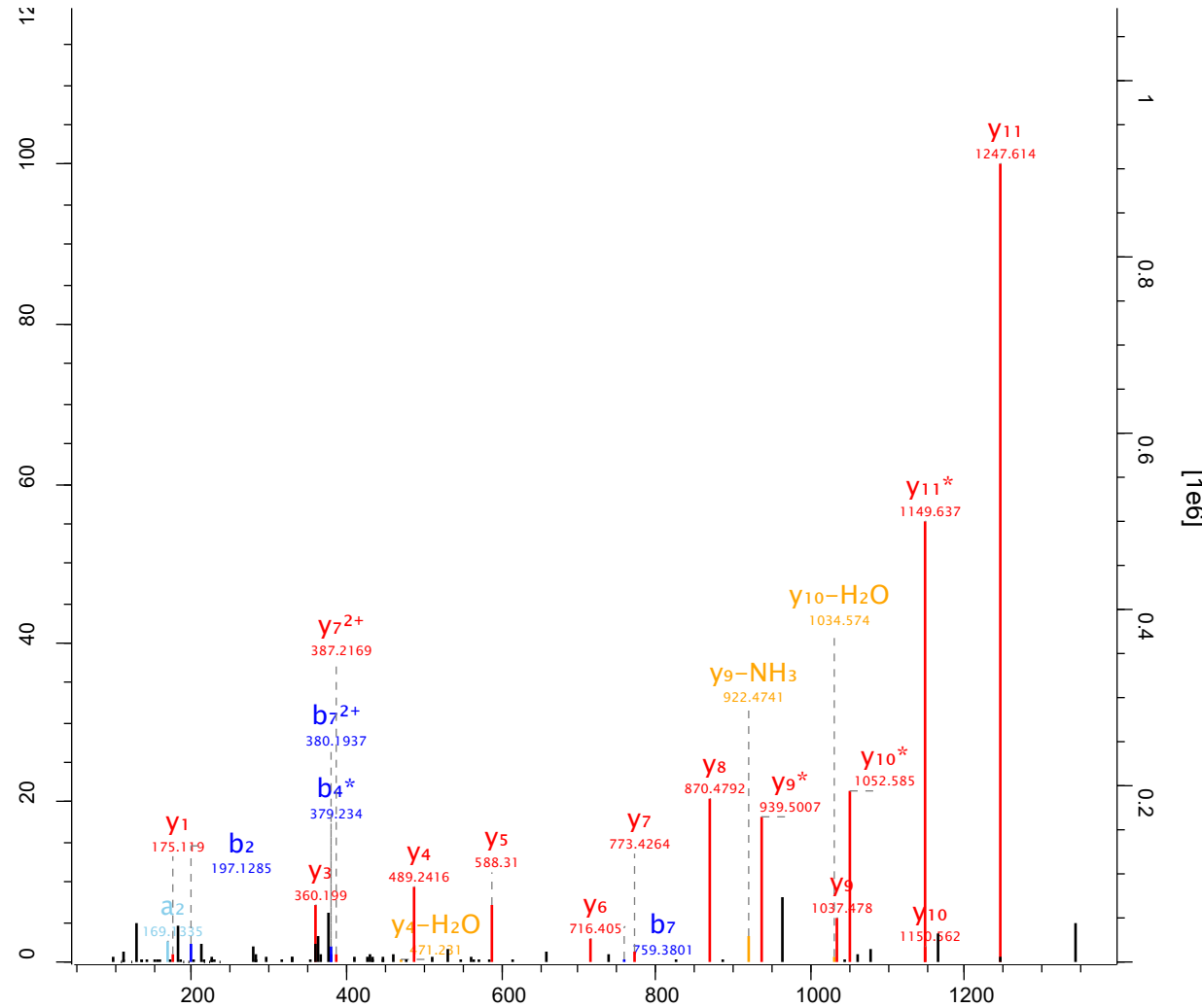
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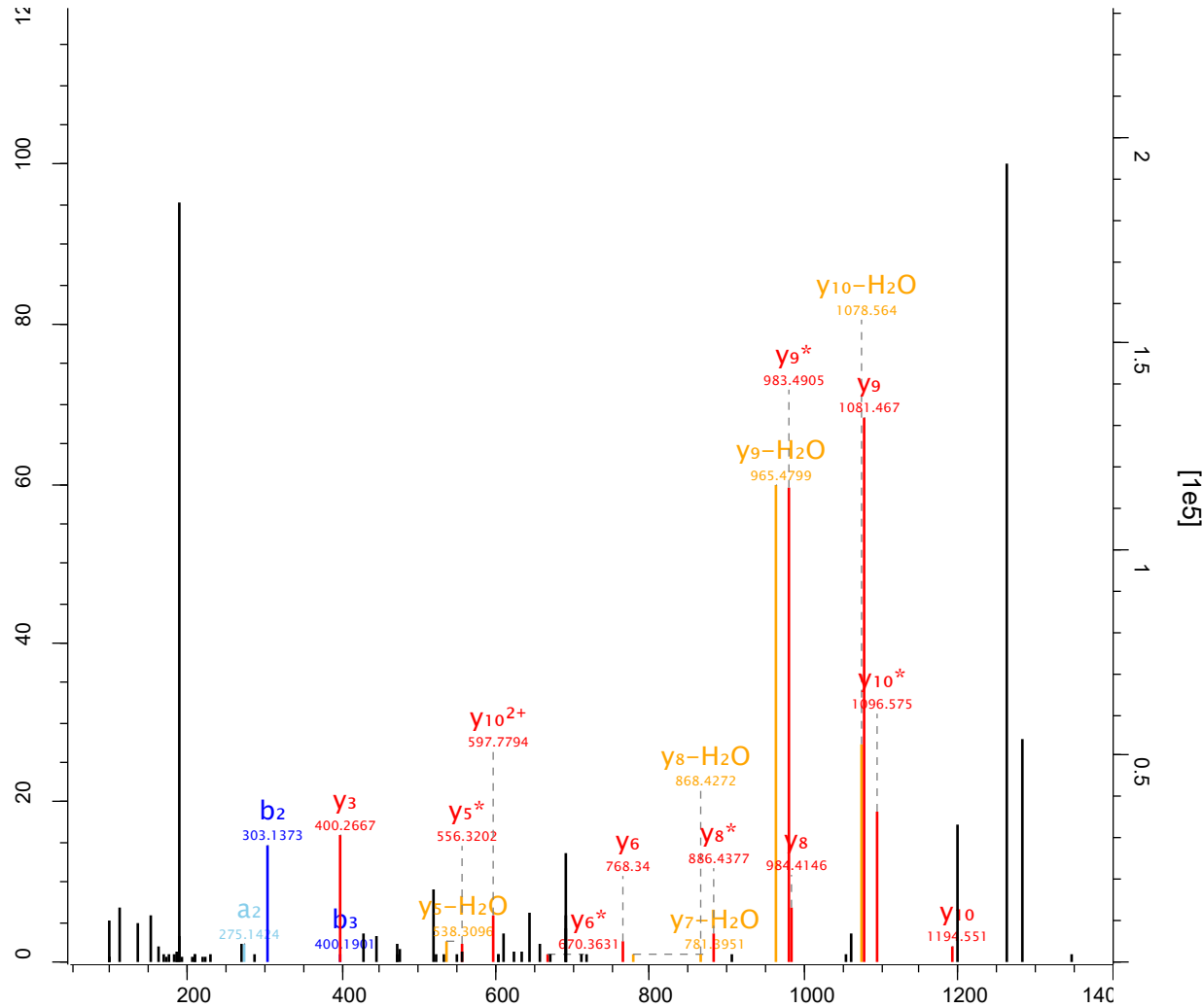
Raw file Scan Method Score m/z
 sys_02_2 9679 FTMS; HCD 198.55 585.76



Raw file Scan Method Score m/z
 sys_02_2 9812 FTMS; HCD 94.49 449.57

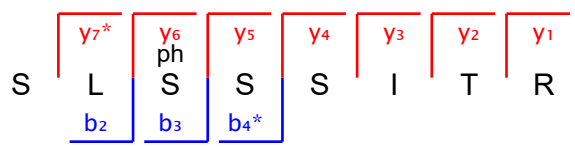
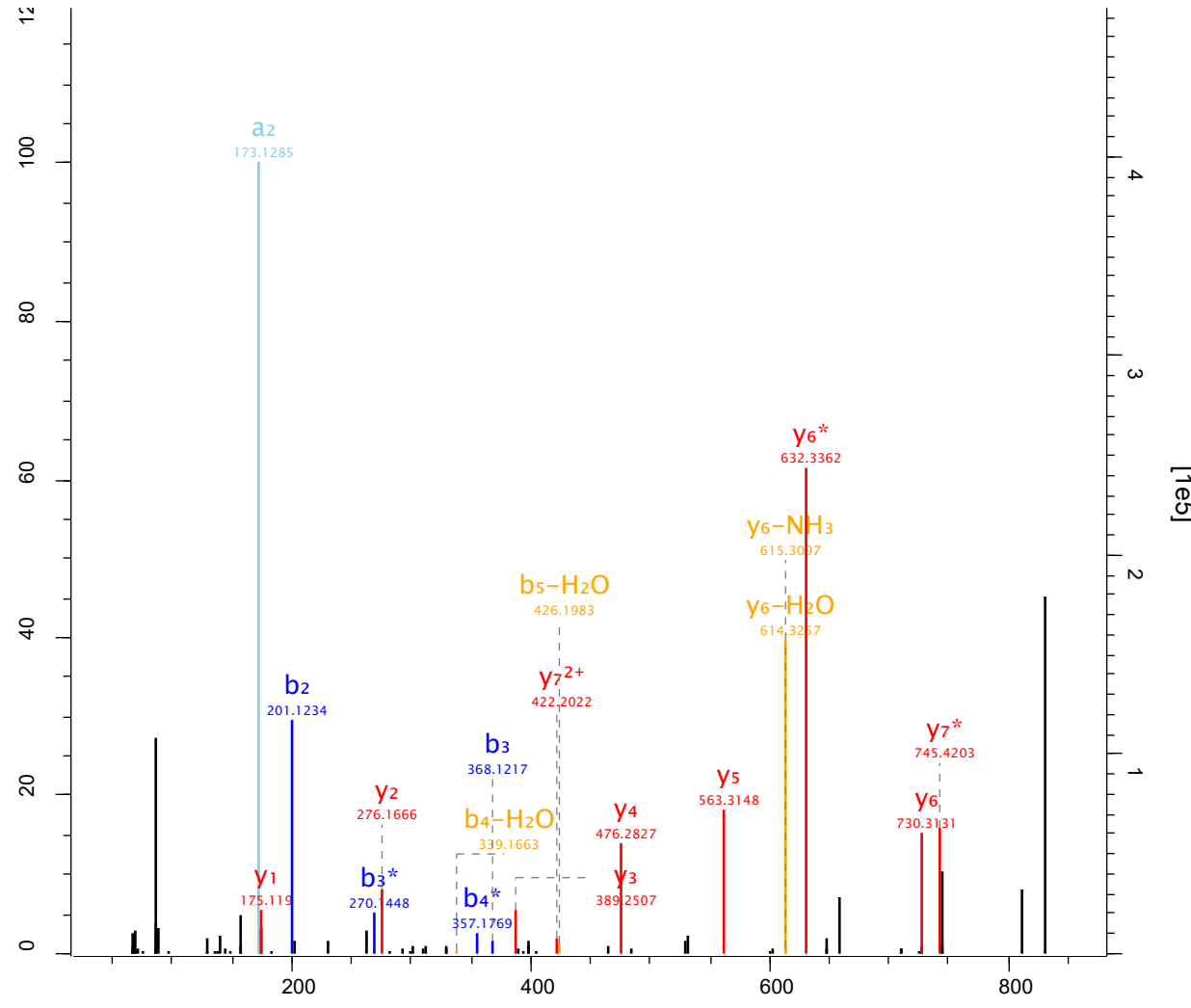


Raw file Scan Method Score m/z
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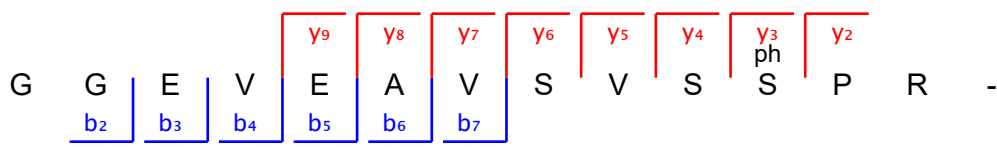
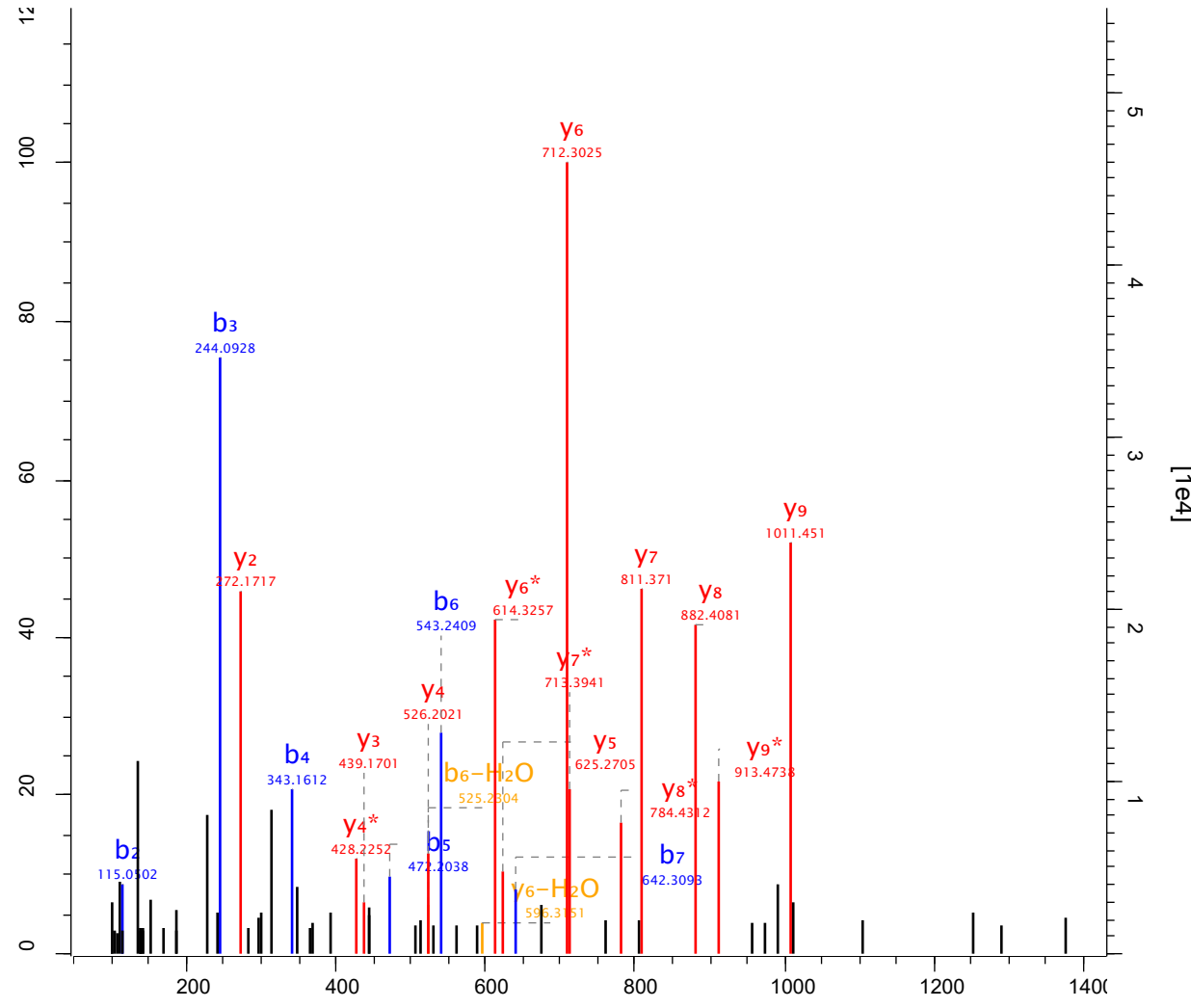


ac ox M L P S E N S P R K -
 y10 y9 y8 y6 y5* y3
 b2 b3
 ph

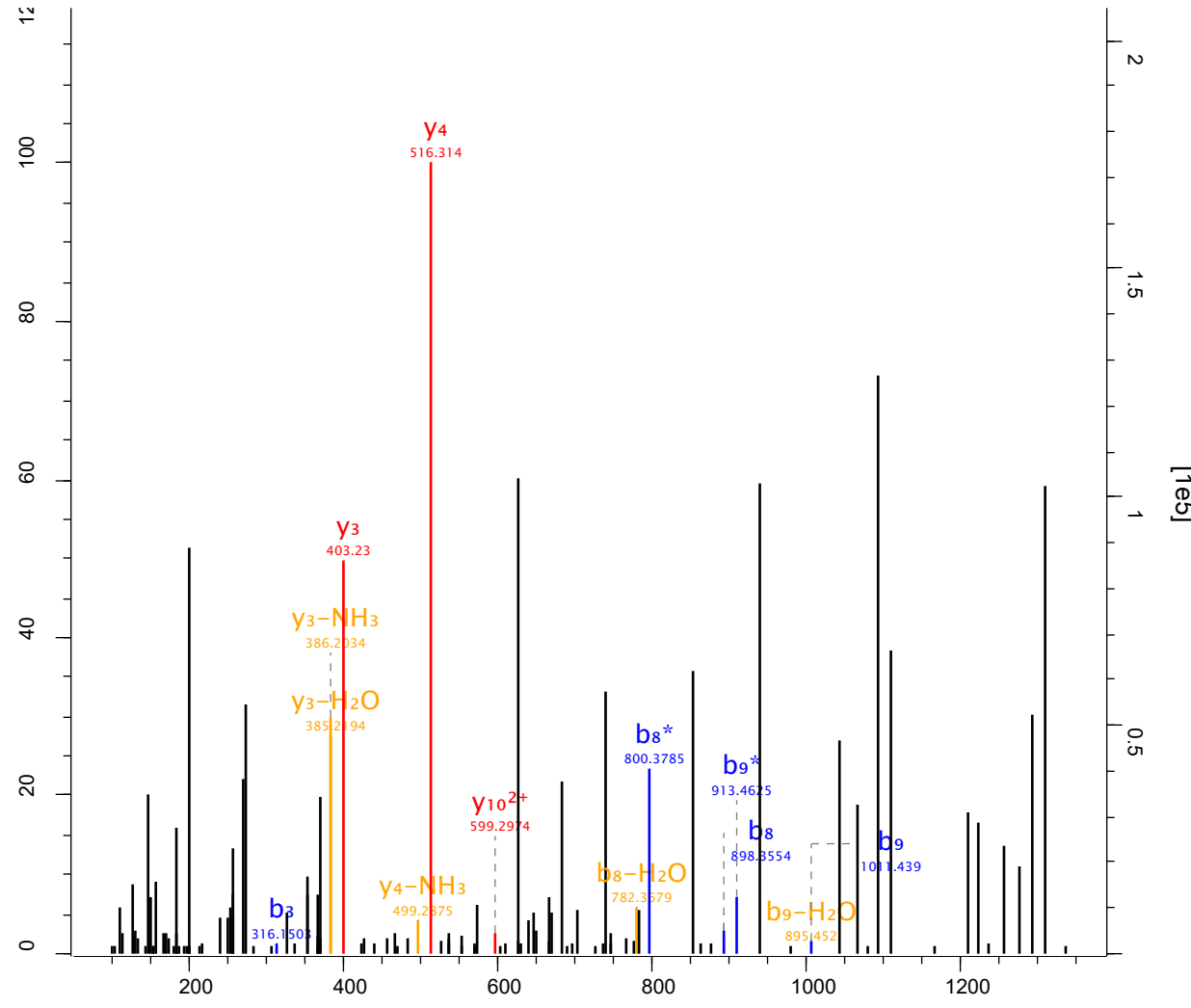
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Raw file Scan Method Score m/z
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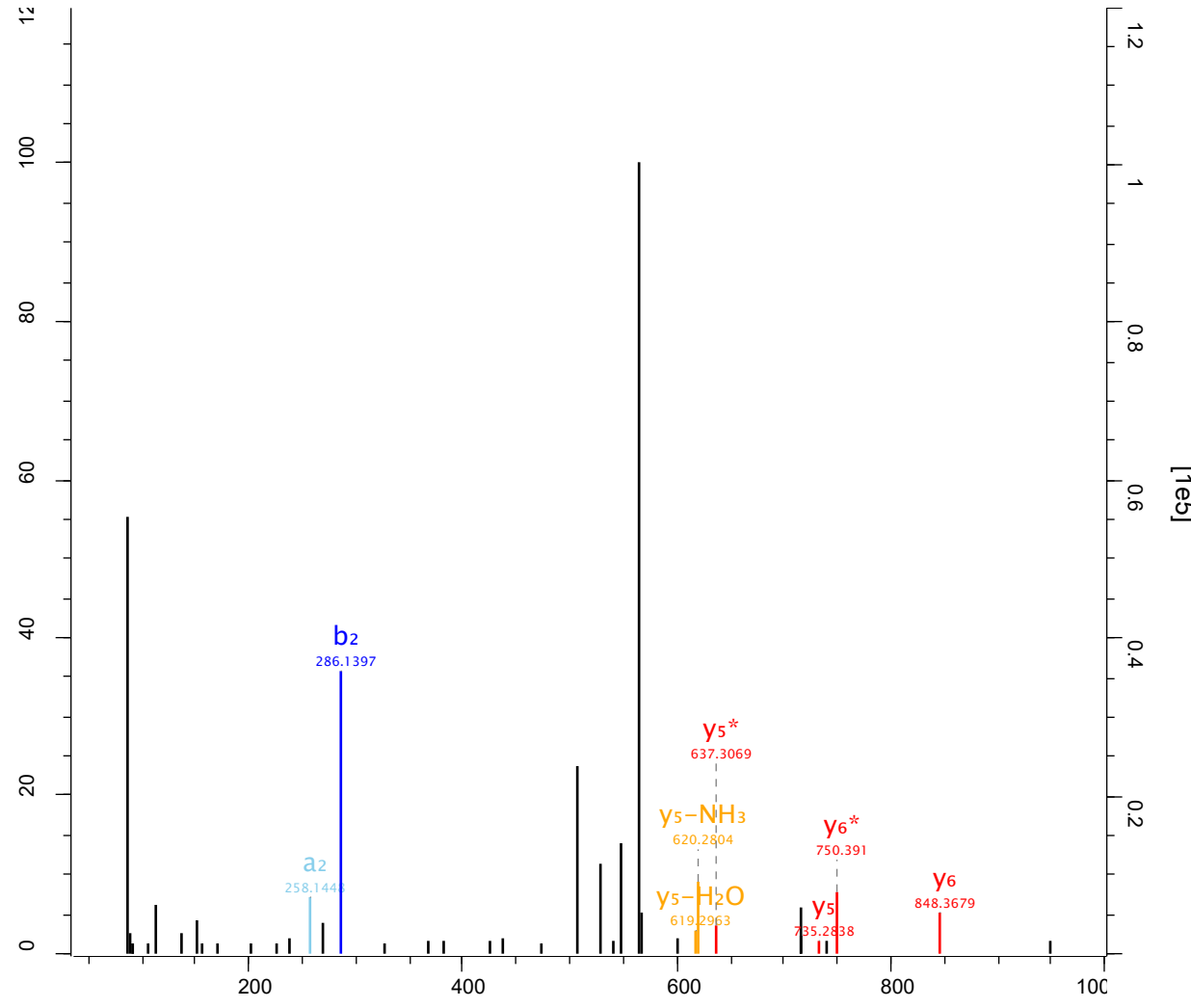


Raw file Scan Method Score m/z
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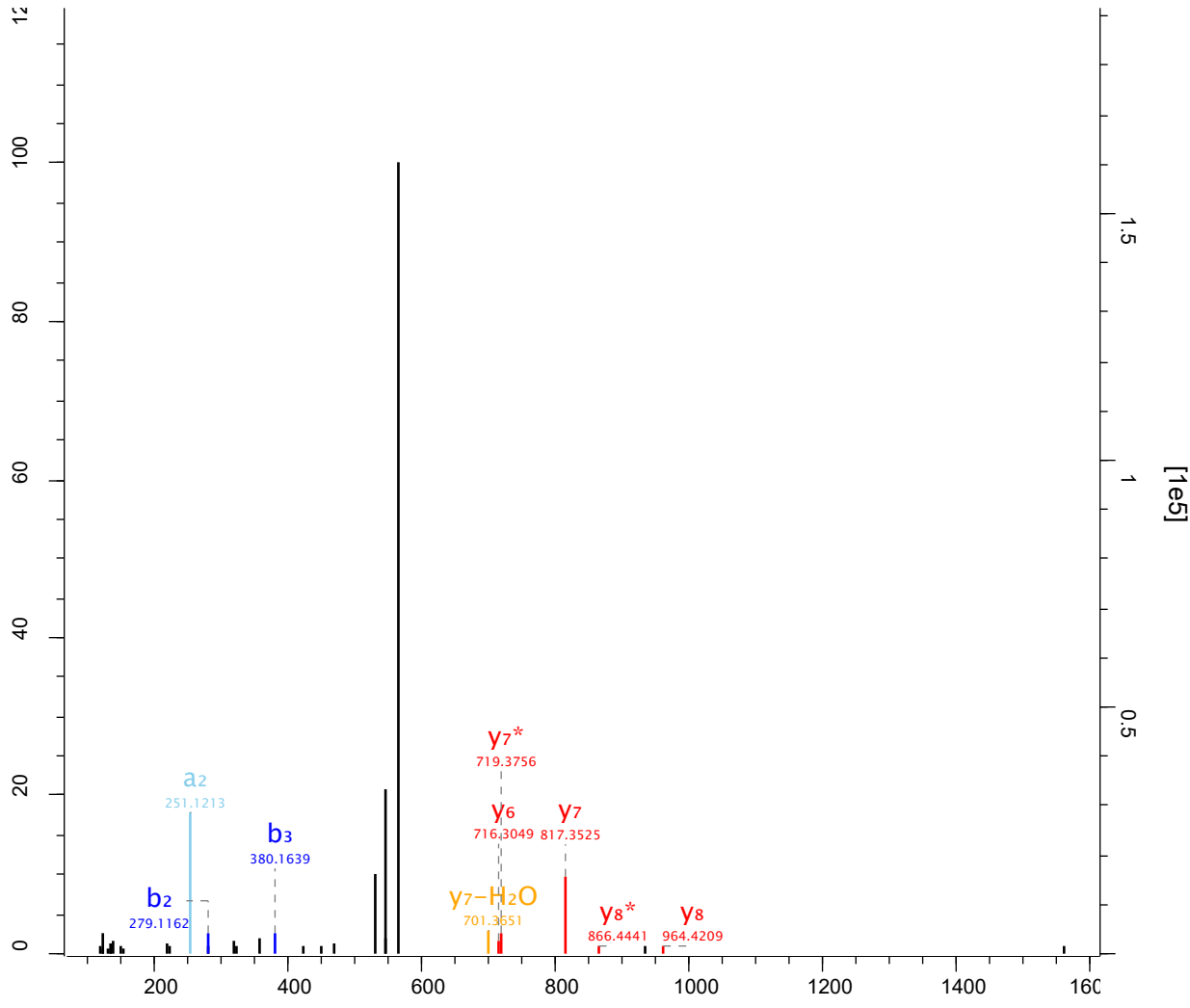
- T D V Q S L S S I L D R -
 (Annotations: y10^2+ above V, b3 below V, y4 above I, b8 below S, b9 below I, y3 above L)

Raw file Scan Method Score m/z
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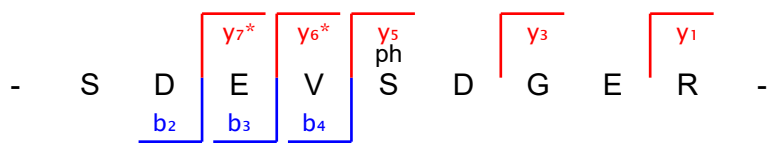
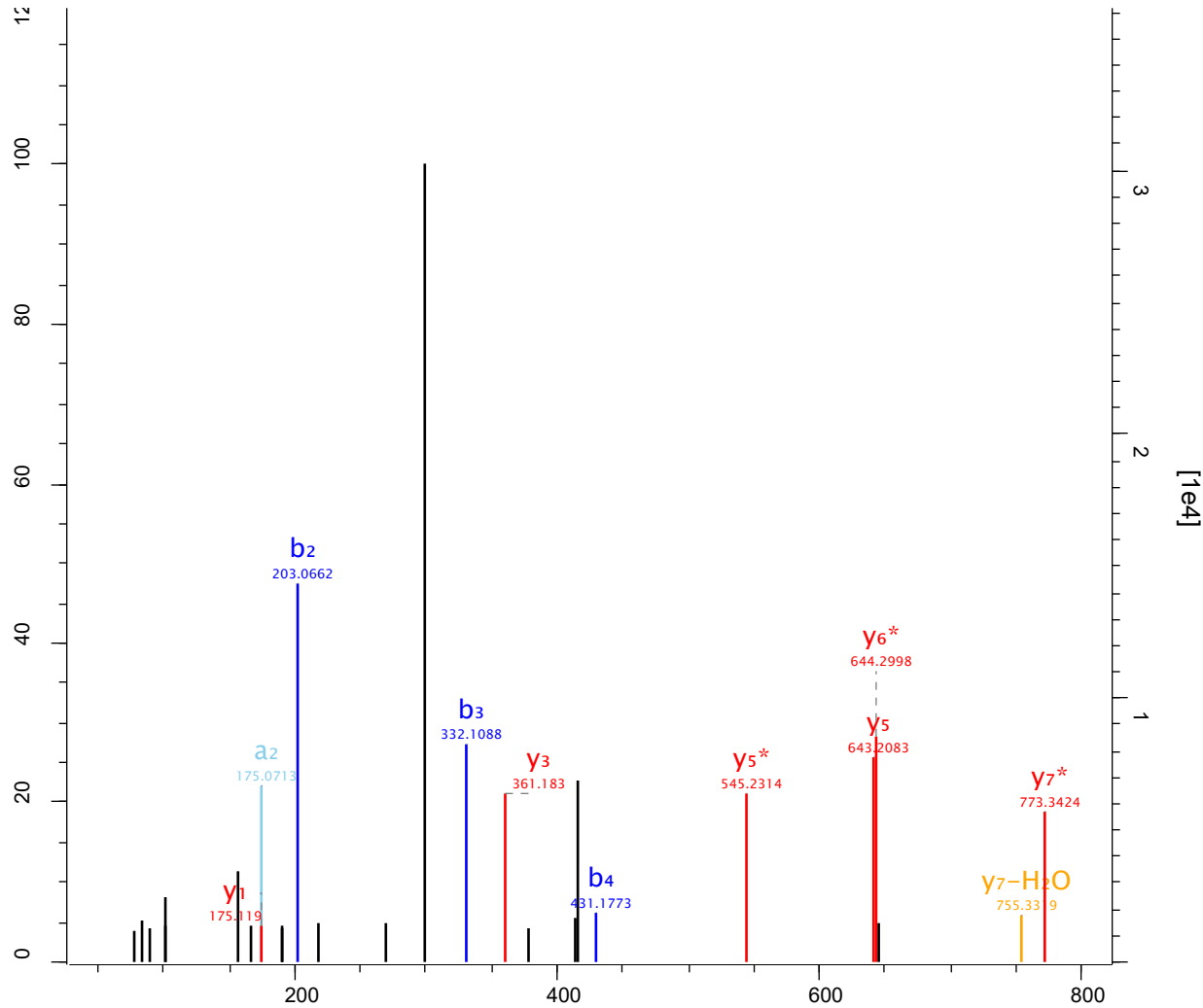
ac
 - K D L L ph S L ph S R -
 b₂ y₆ y₅

Raw file Scan Method Score m/z
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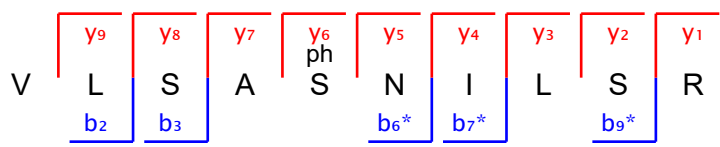
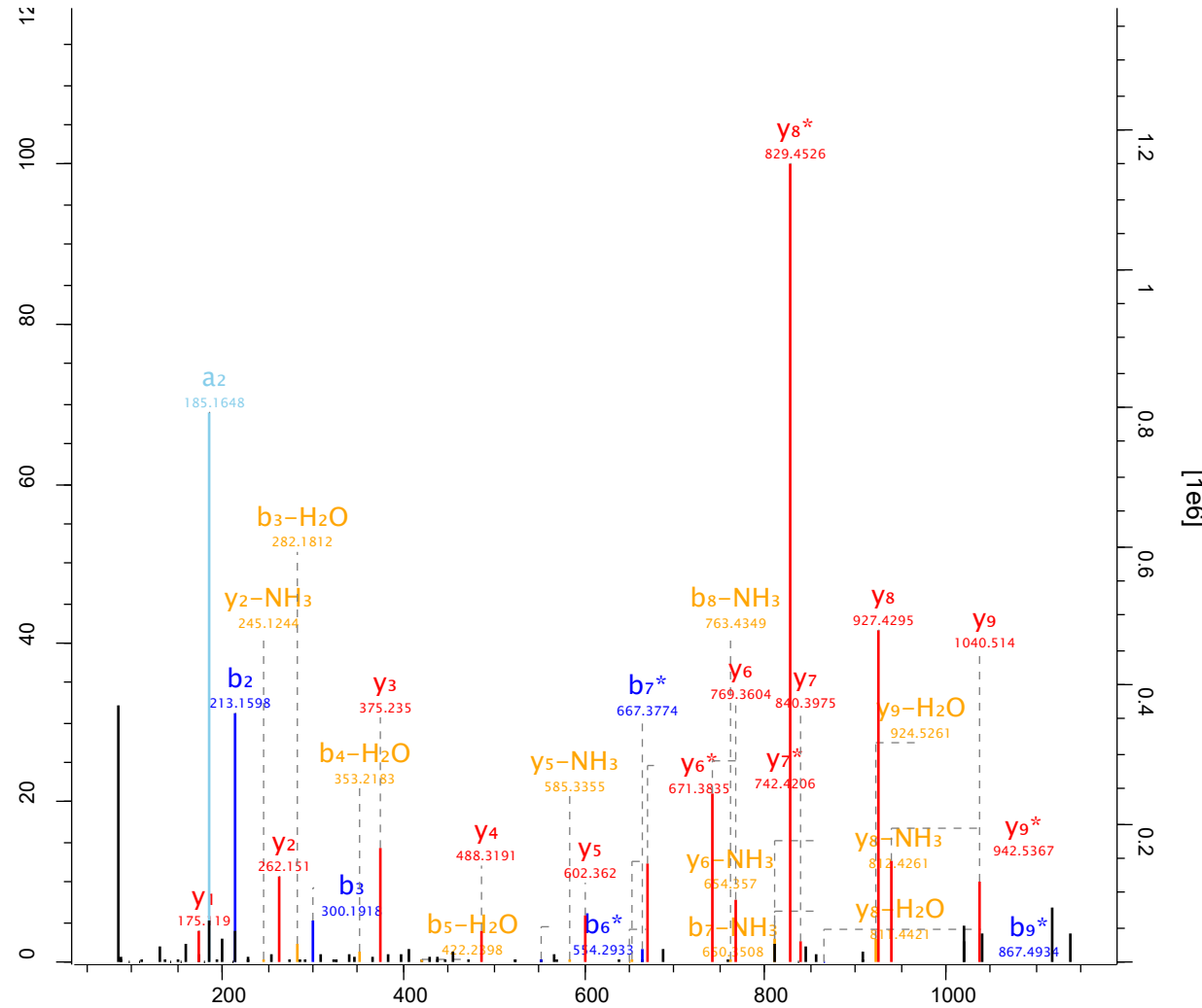


- M F T M A ph S S L K -
b₂ b₃

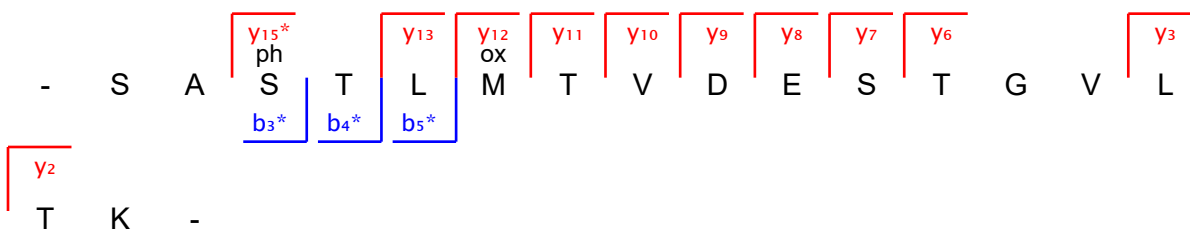
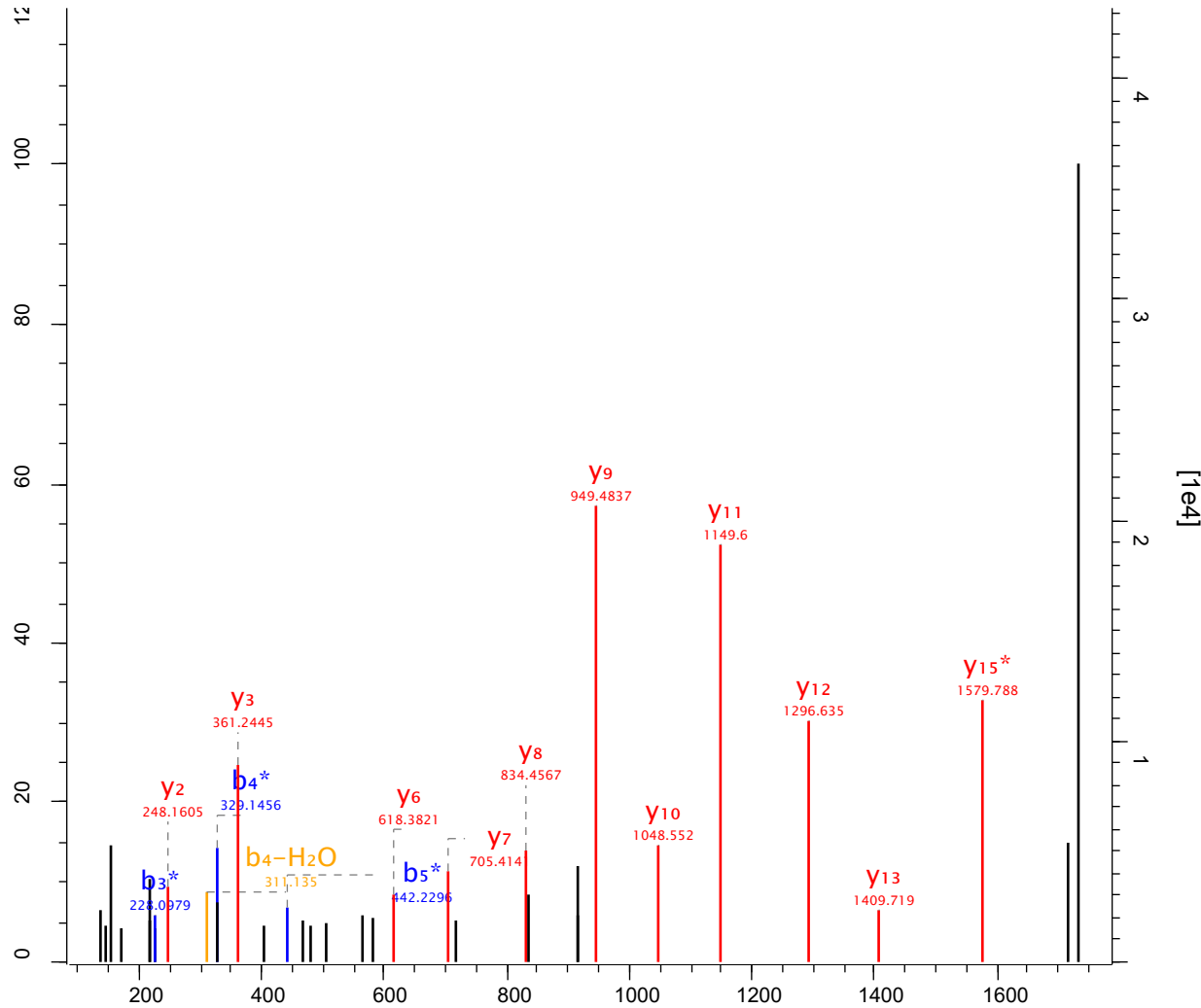
Raw file	Scan	Method	Score	m/z
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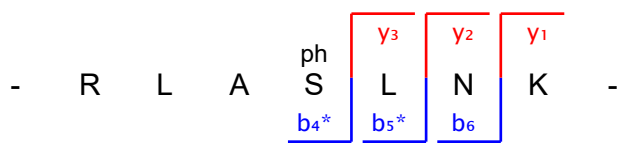
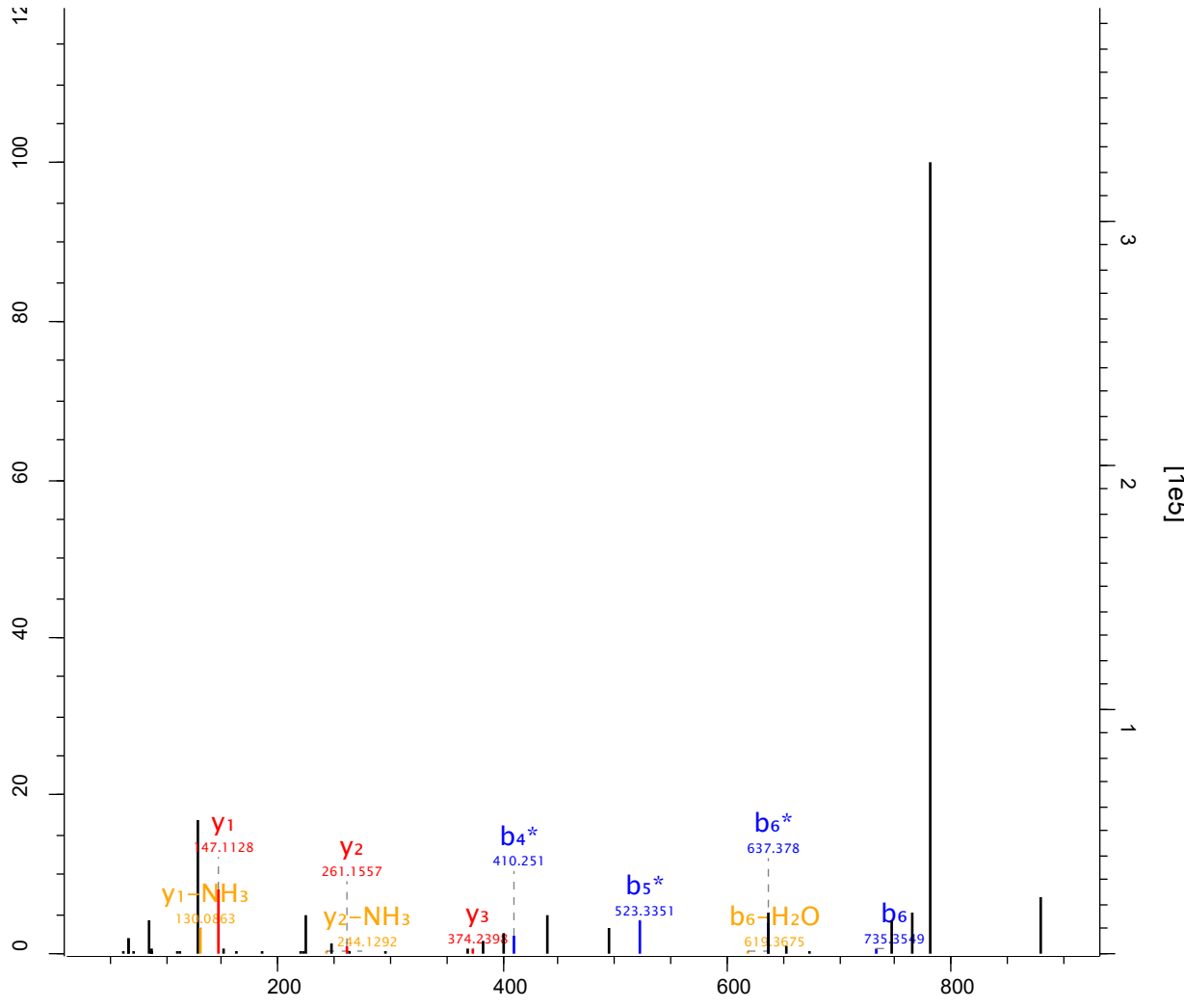
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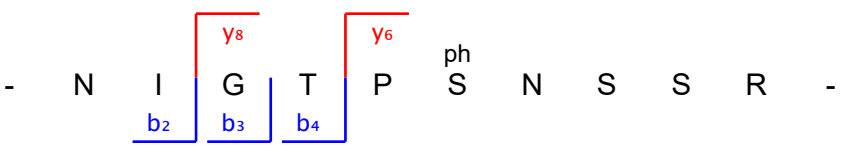
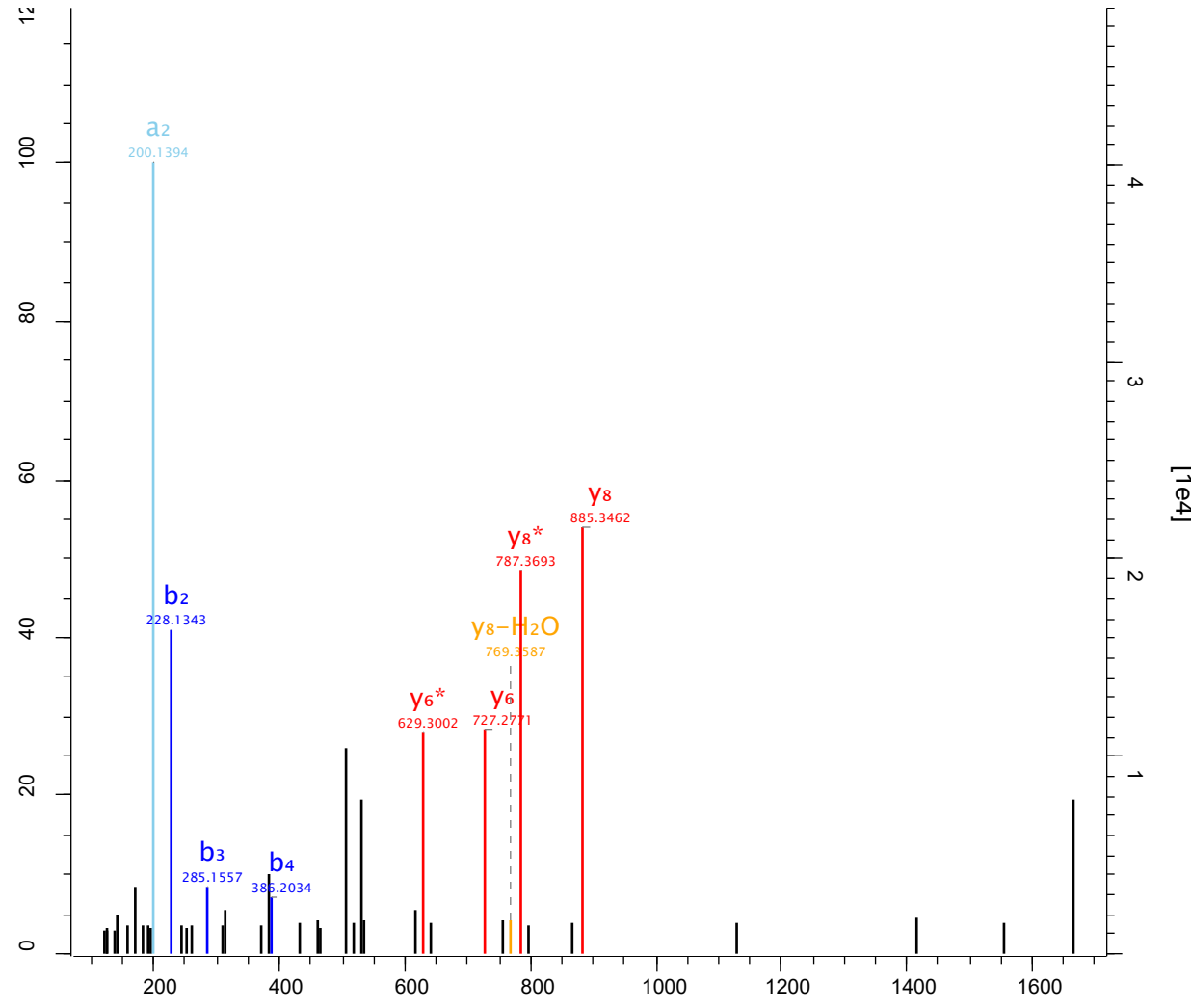
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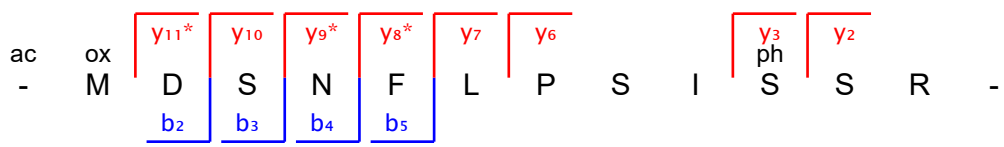
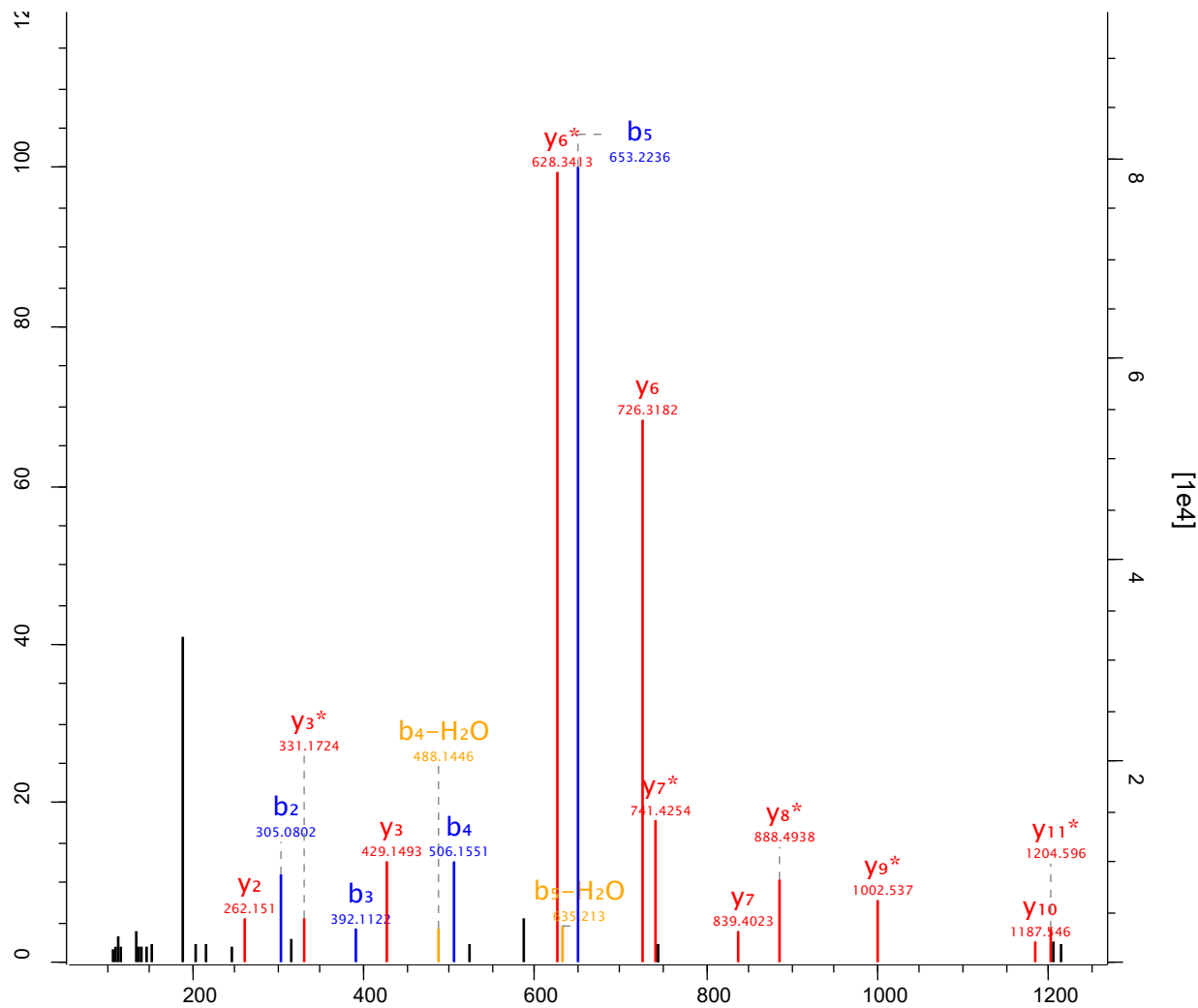
Raw file	Scan	Method	Score	m/z
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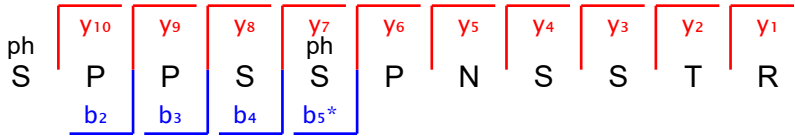
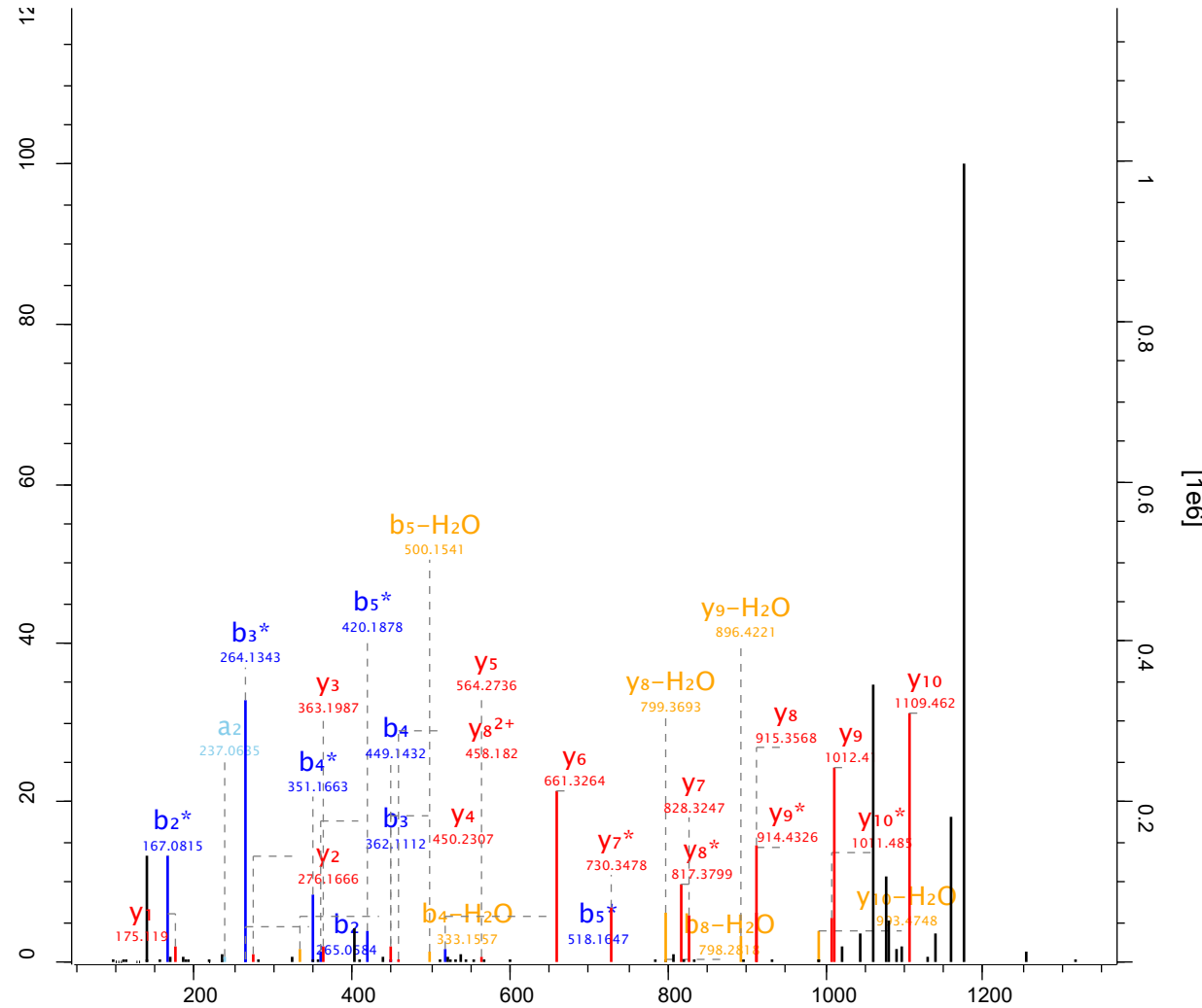
Raw file	Scan	Method	Score	m/z
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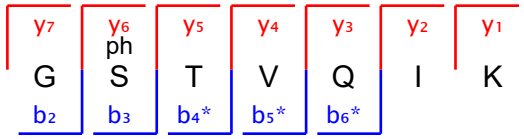
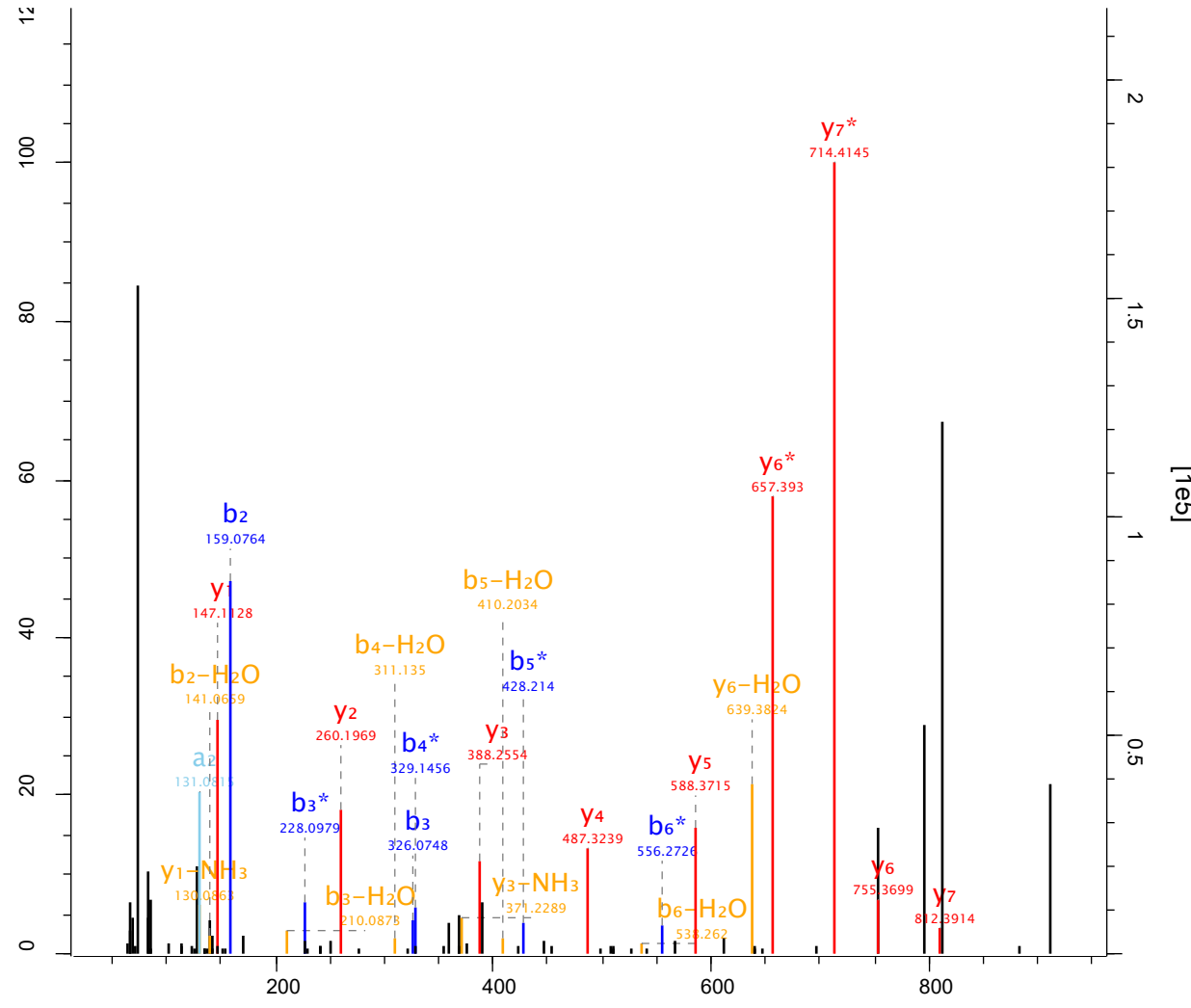
Raw file Scan Method Score m/z
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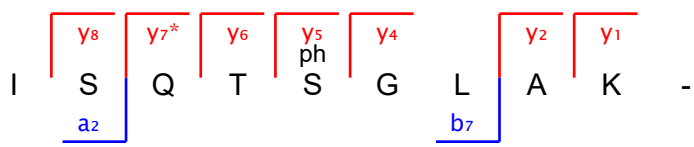
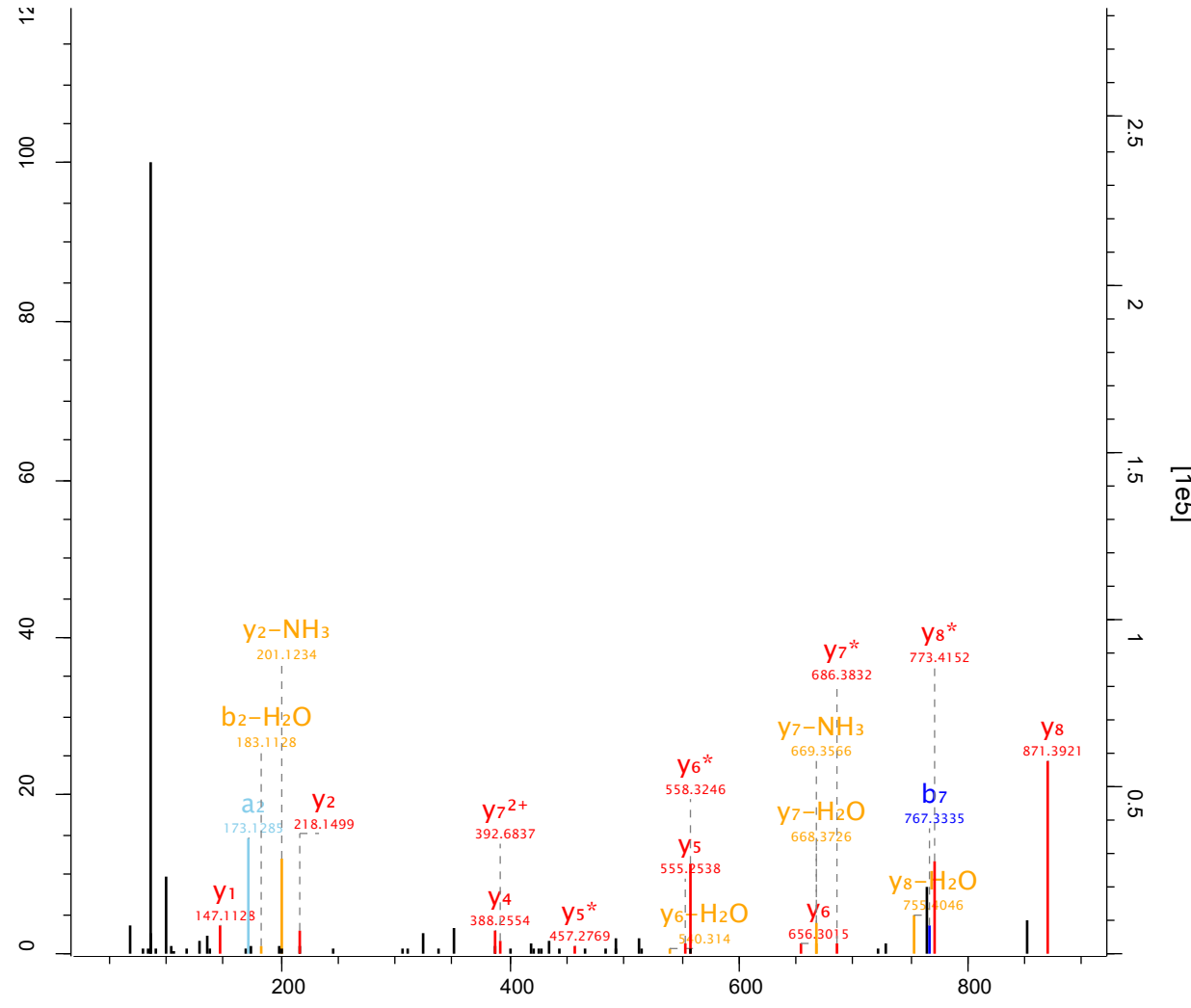
Raw file Scan Method Score m/z
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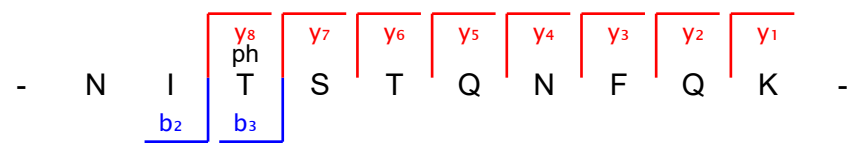
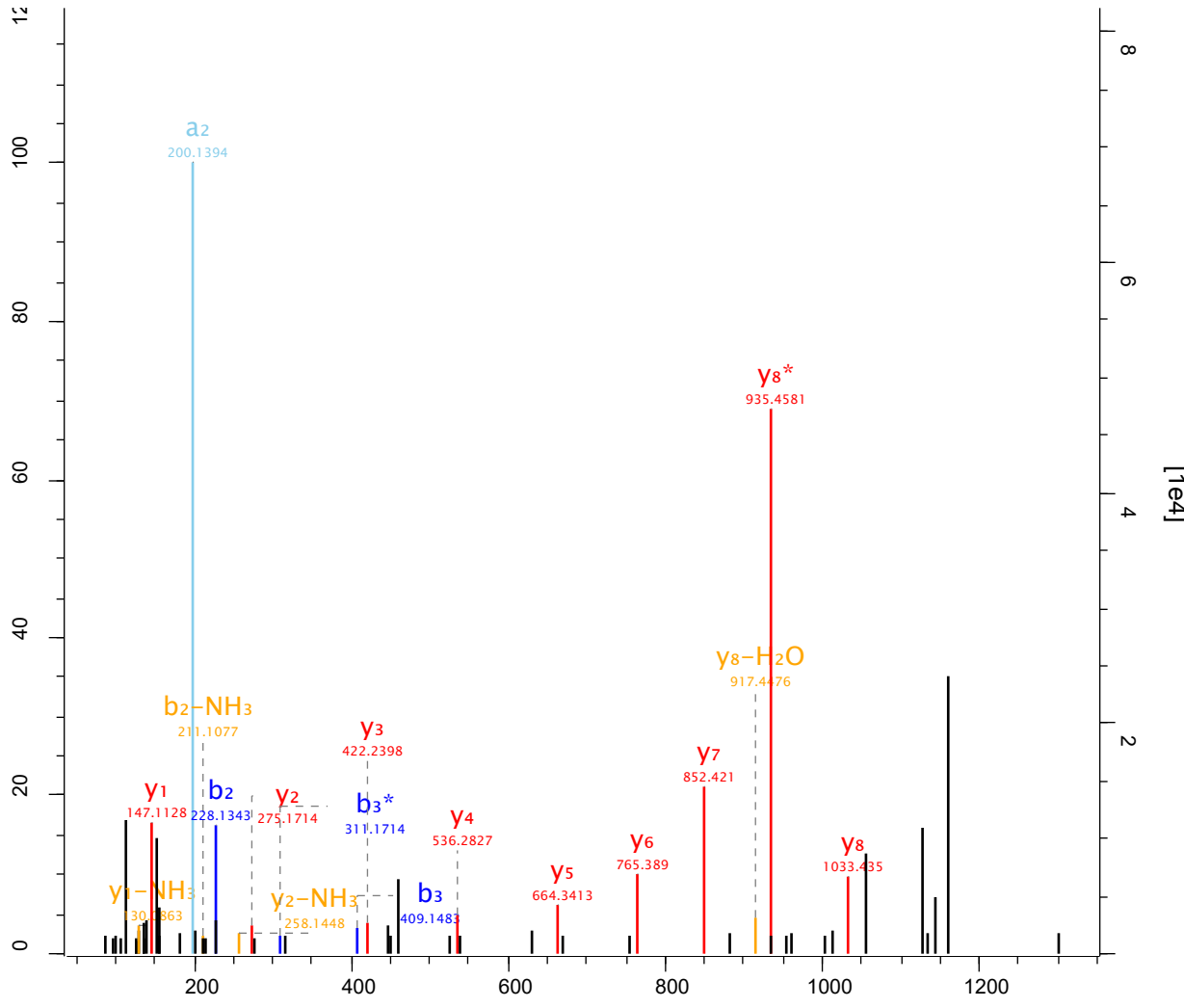
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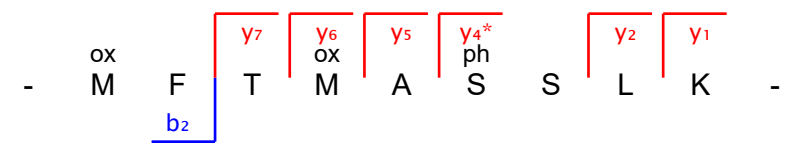
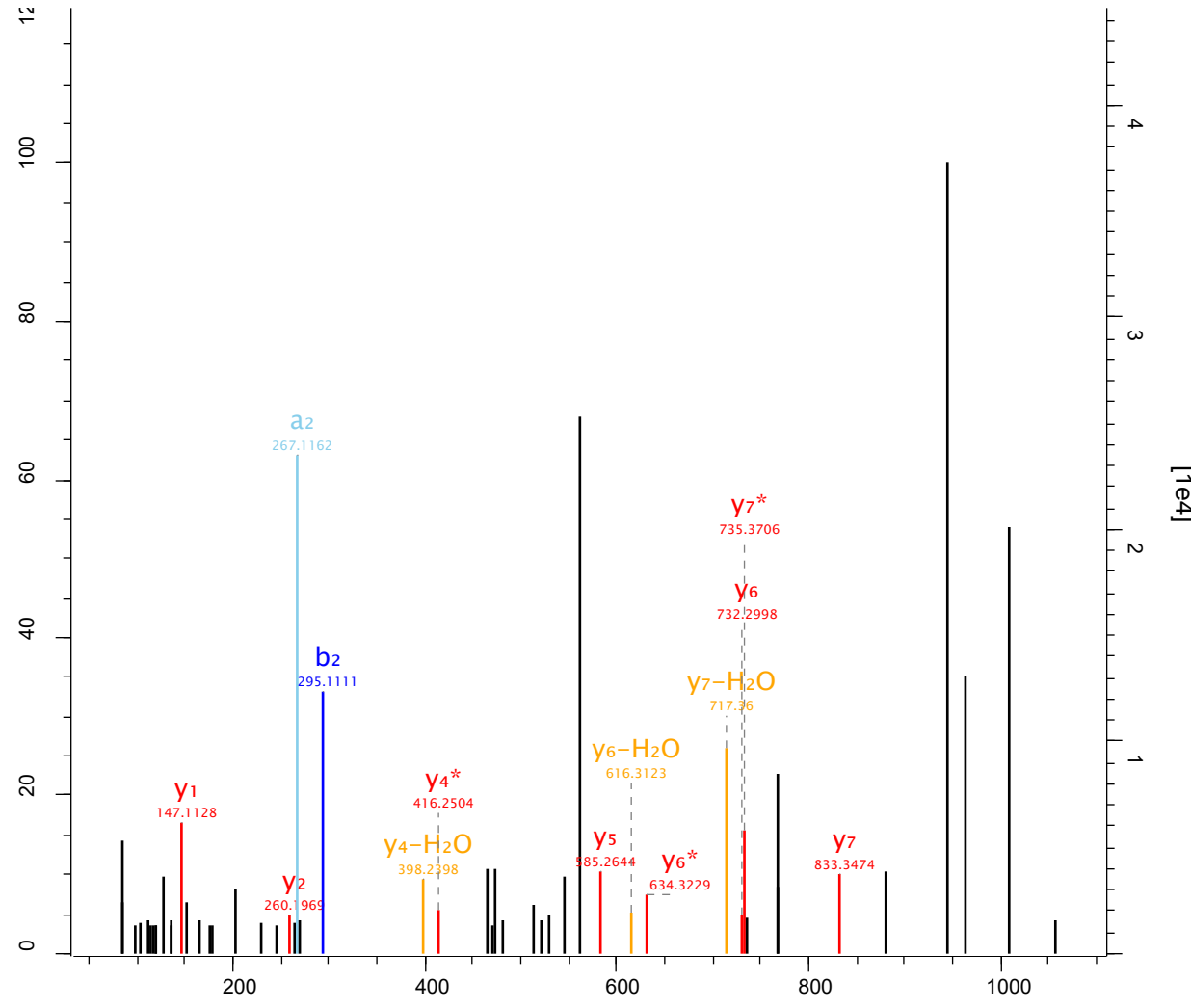
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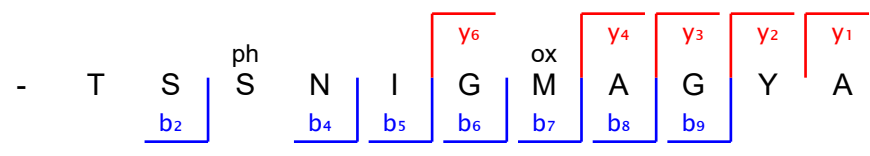
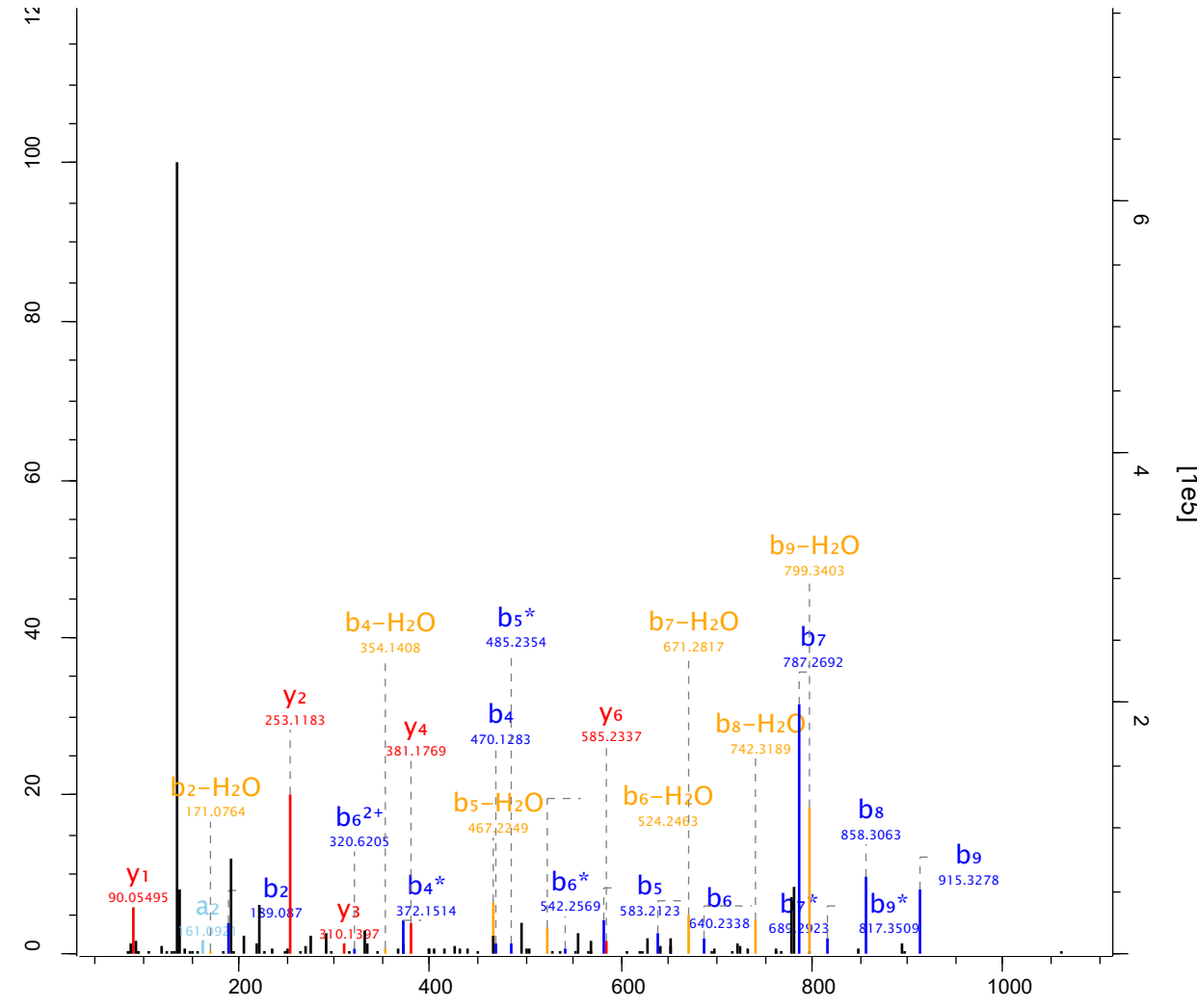
Raw file Scan Method Score m/z
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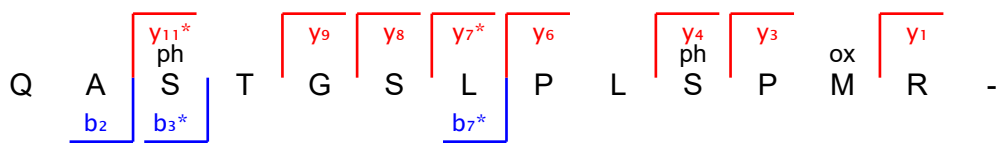
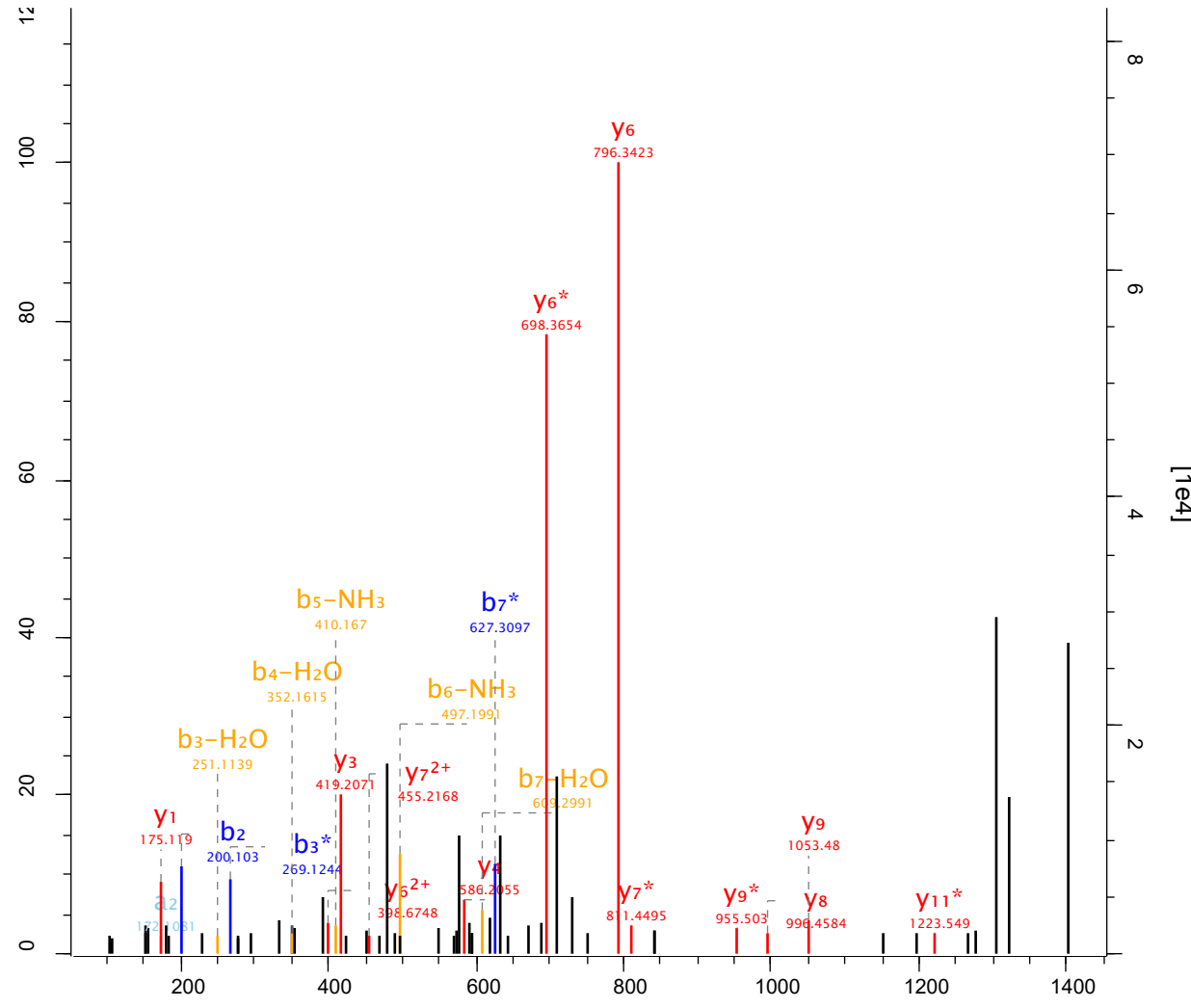
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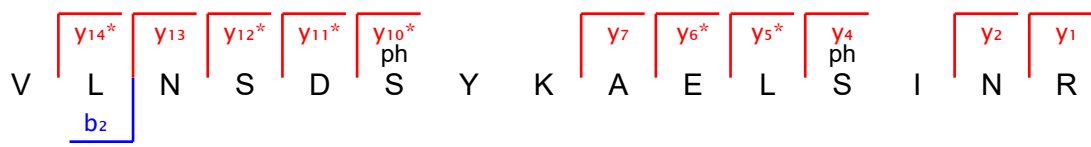
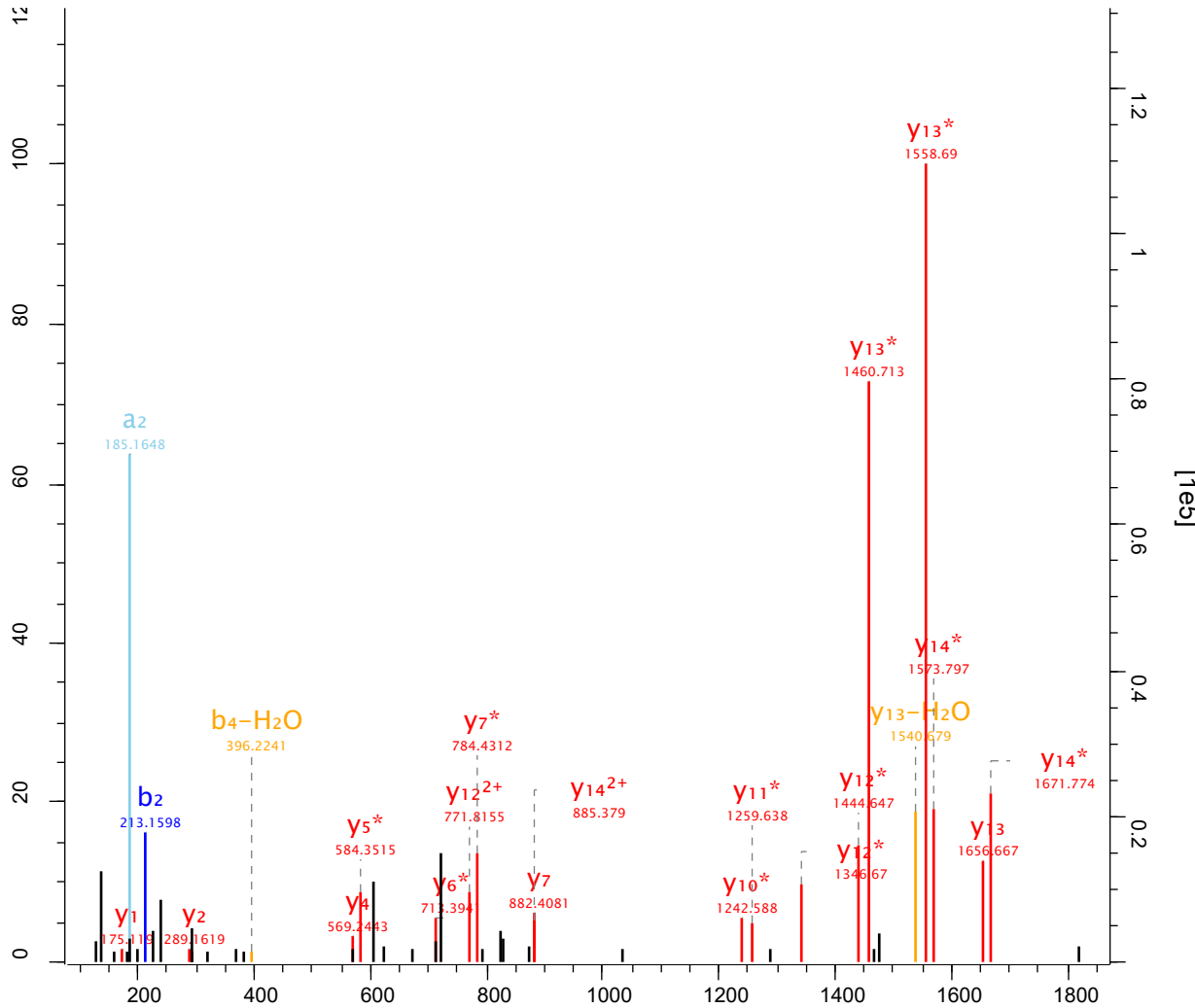
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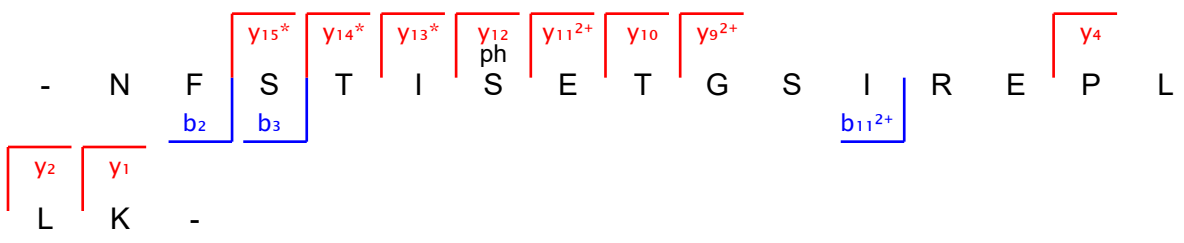
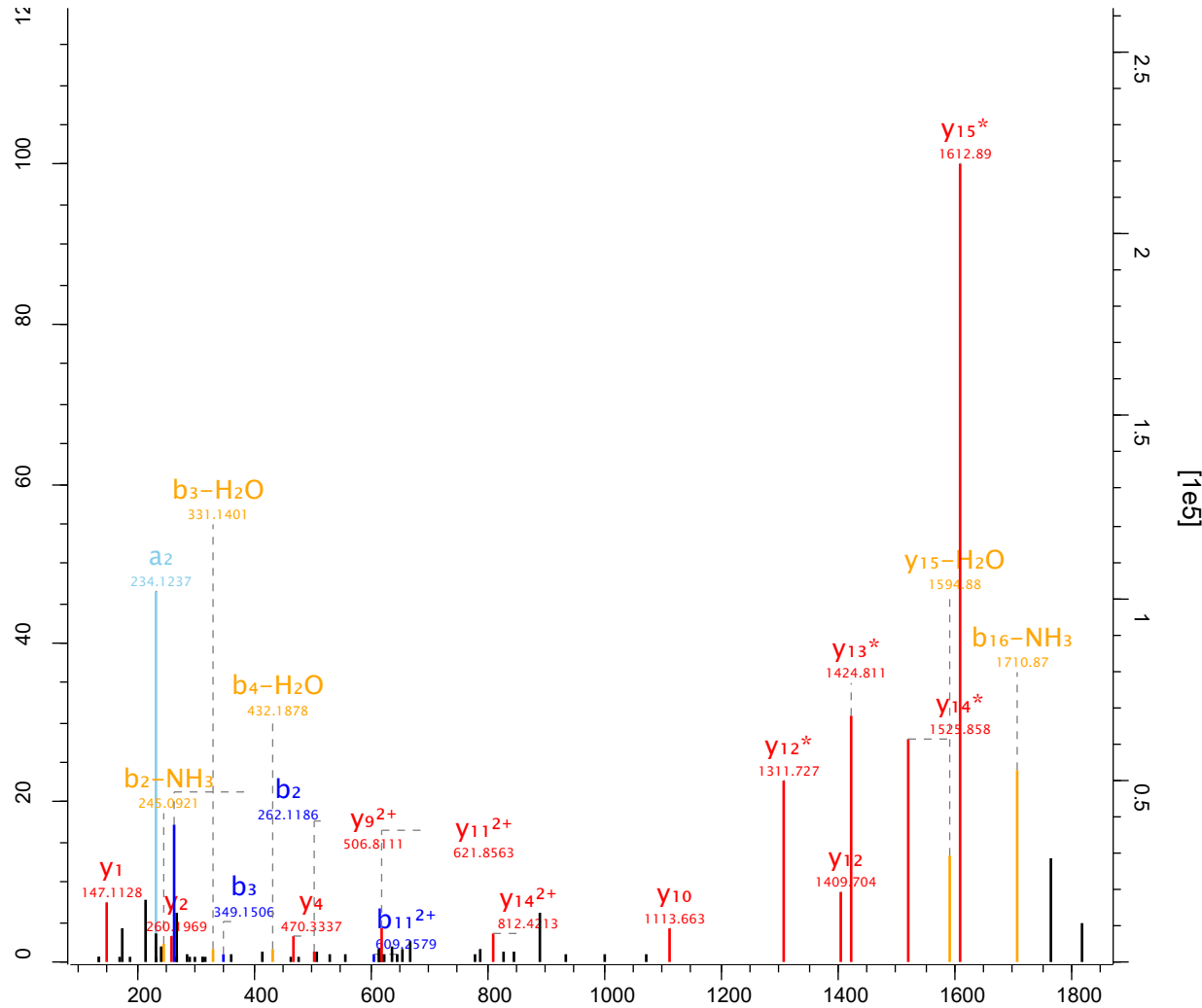
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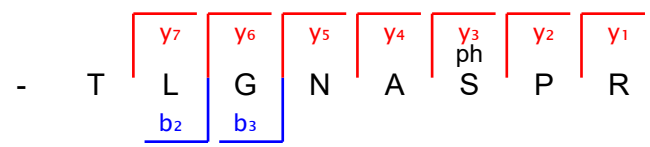
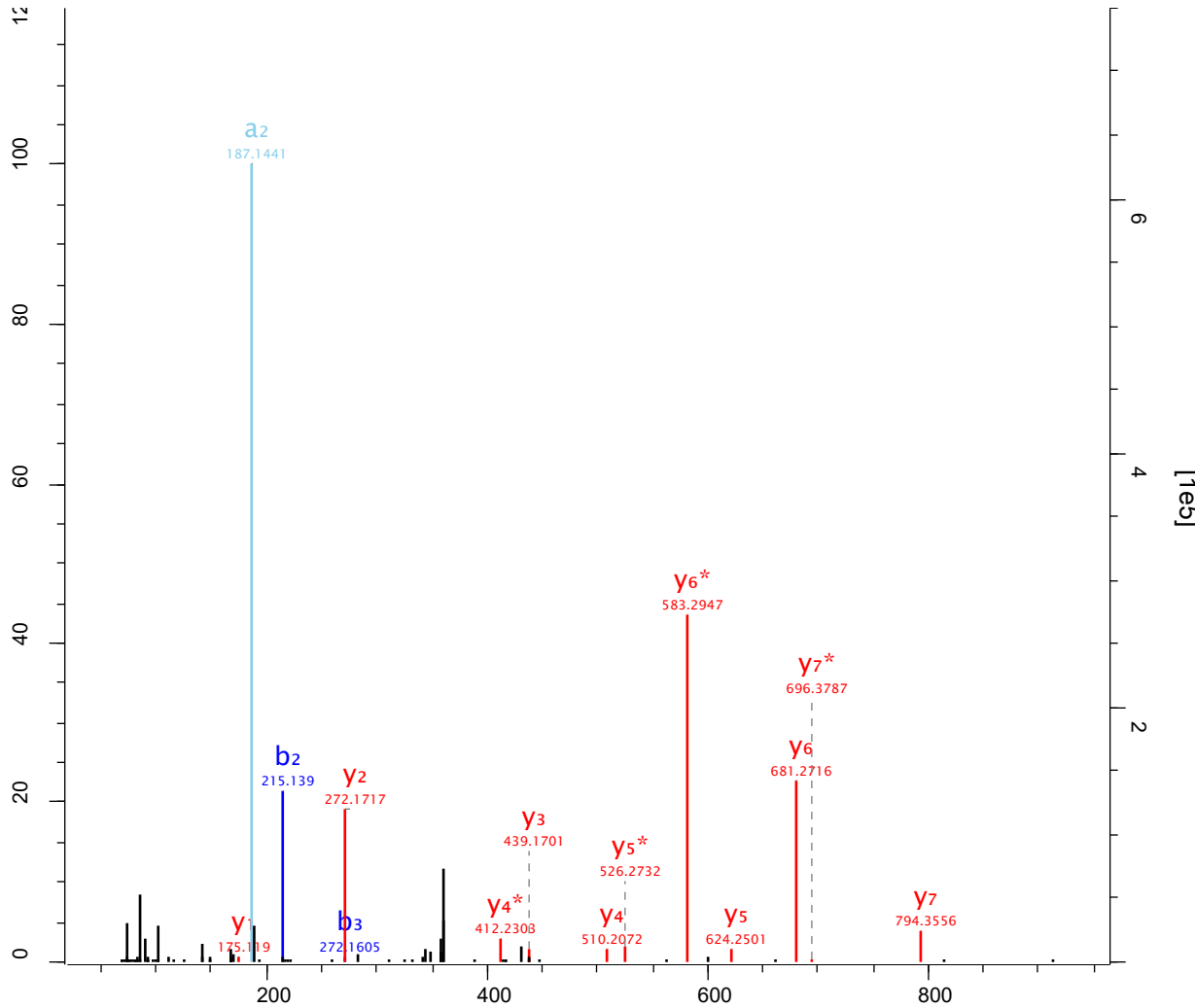
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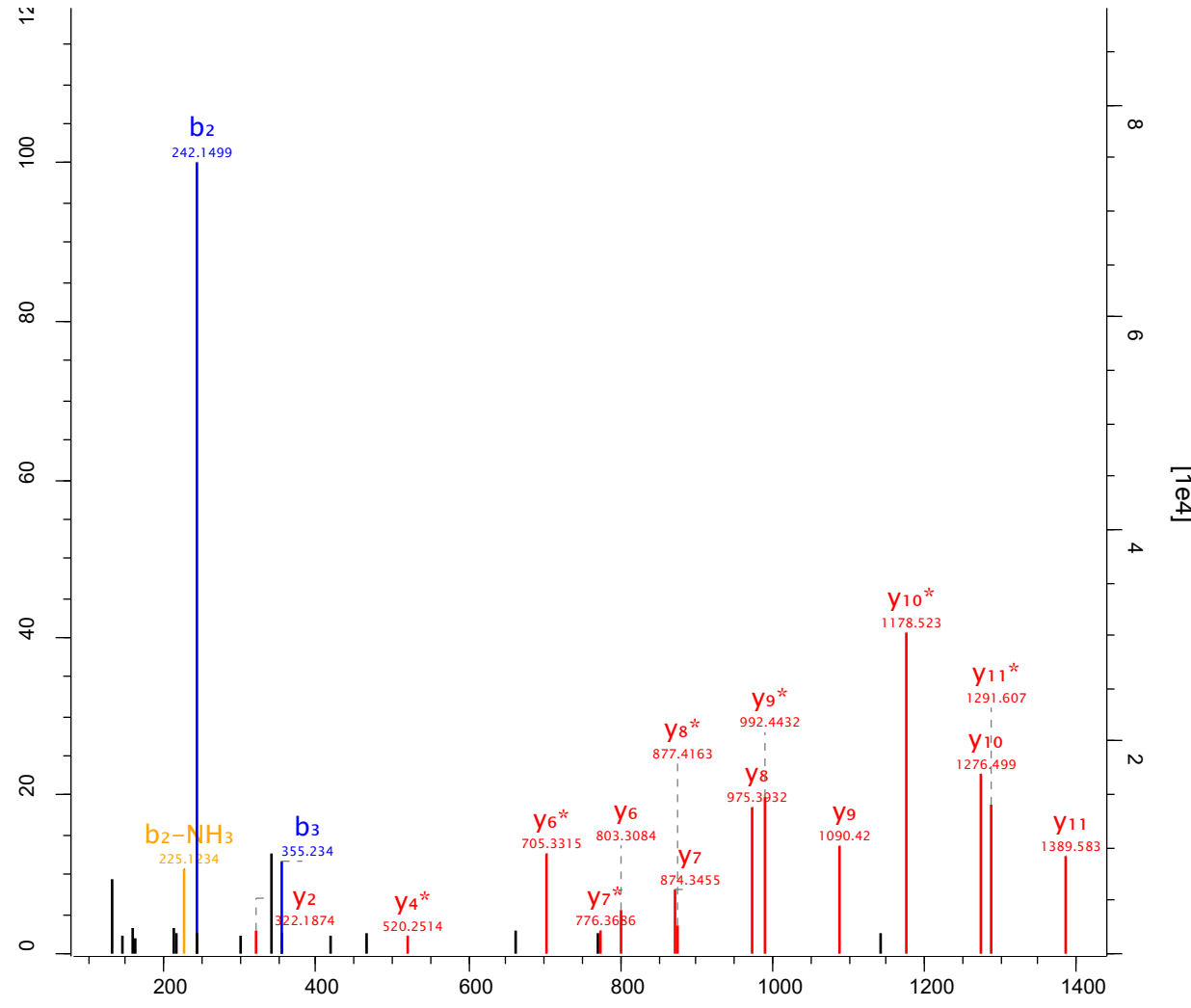
Raw file Scan Method Score m/z
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Raw file	Scan	Method	Score	m/z
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Raw file Scan Method Score m/z
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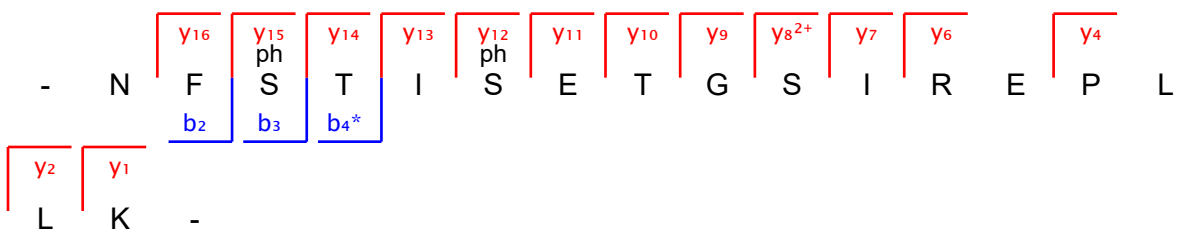
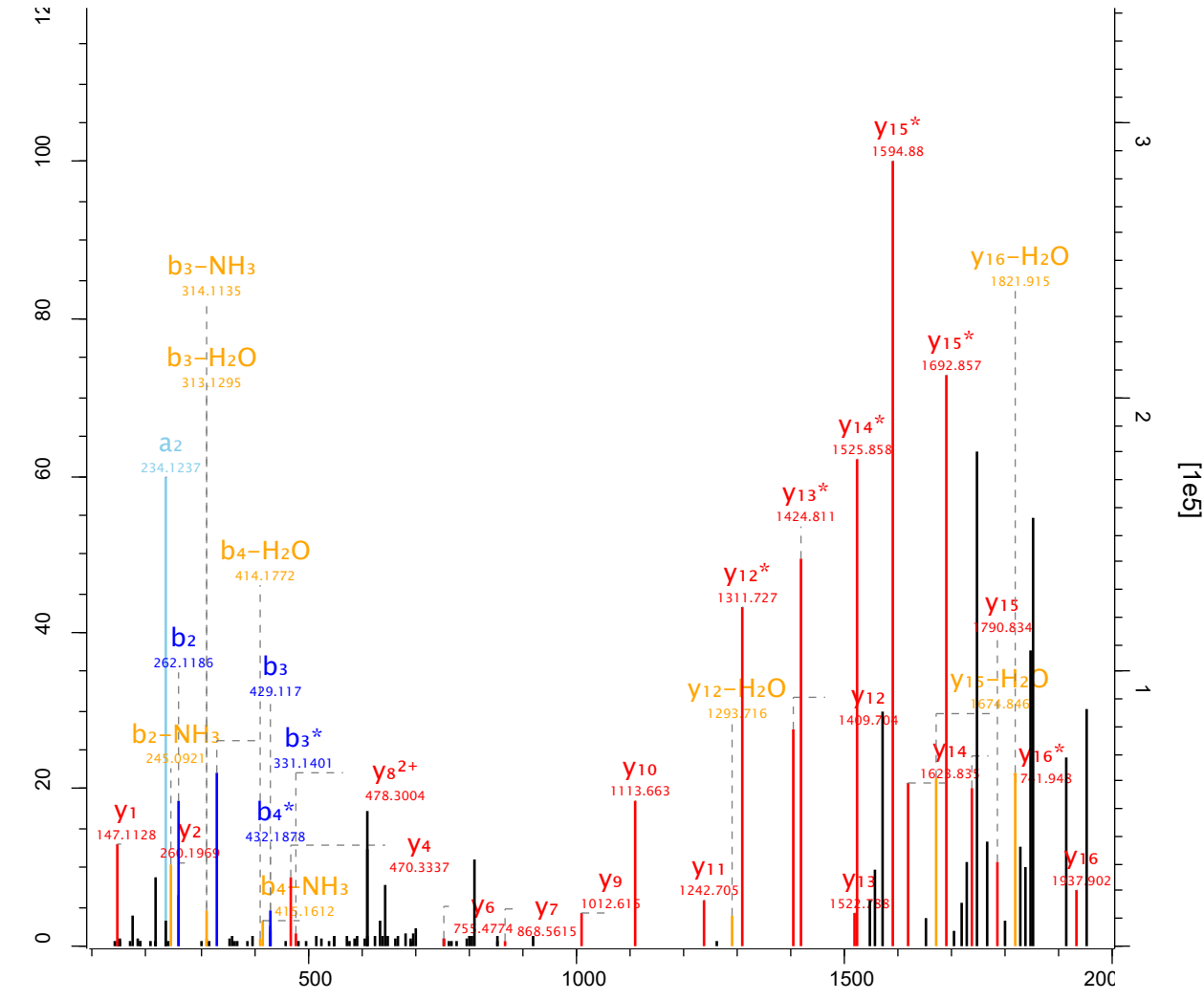


- L Q I W D T A G Q E S F R -

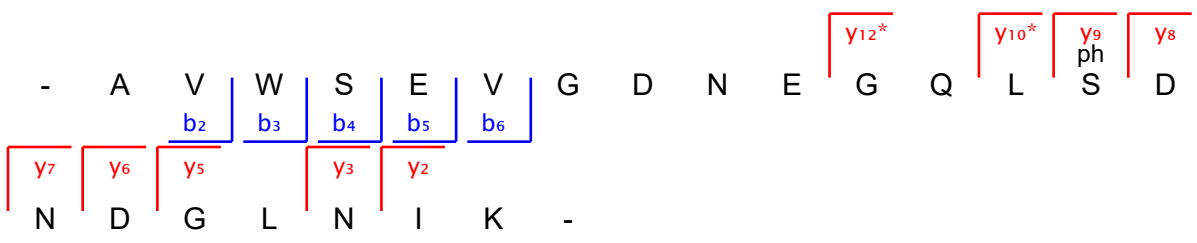
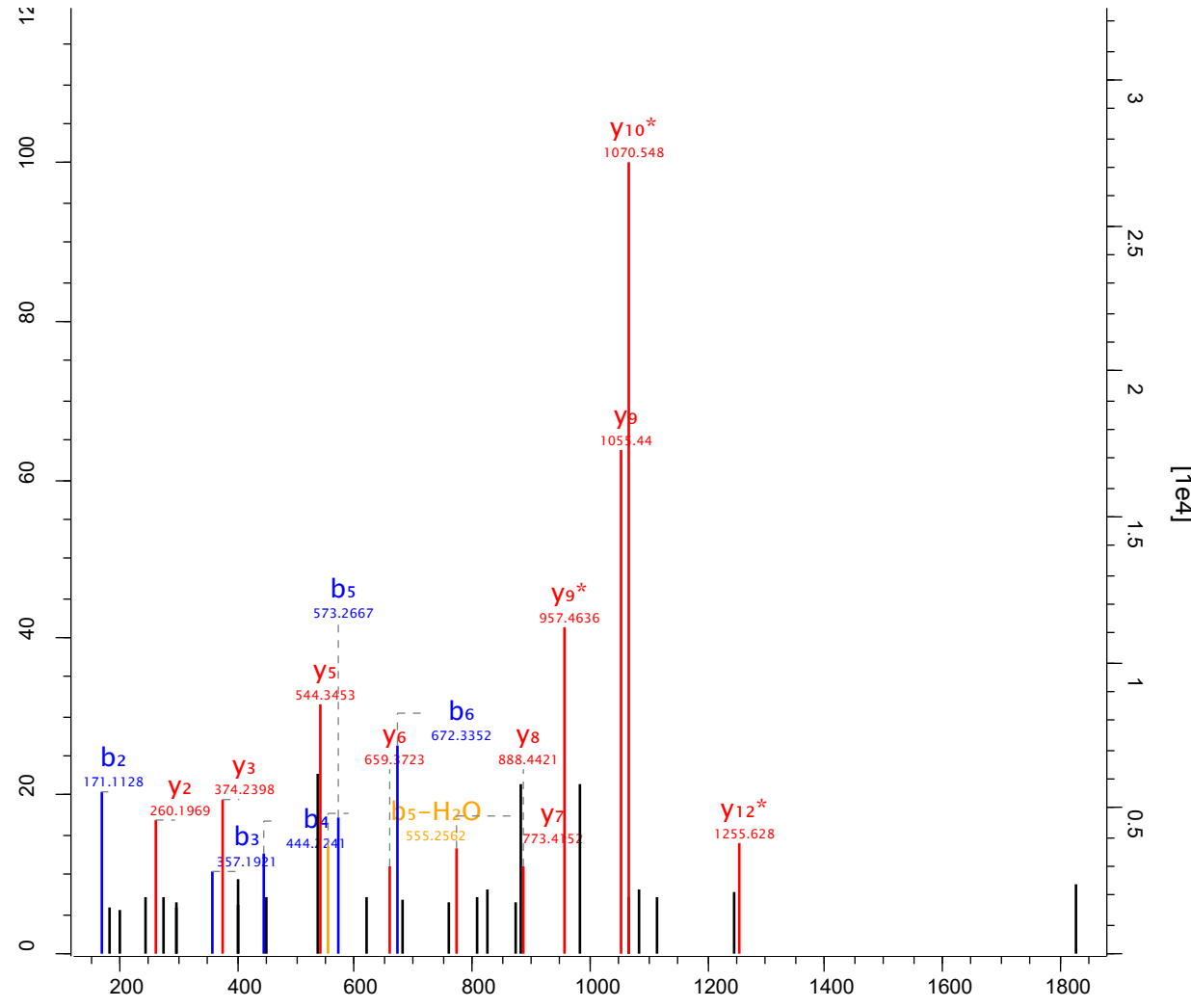
Fragmentation sites are indicated by brackets above the sequence:

- Q-I: b₂
- I-W: b₃
- I-W: y₁₁
- W-D: y₁₀
- D-T: y₉
- T-A: y₈
- A-G: y₇
- G-Q: y₆
- Q-E: y₄*
- E-S: ph
- S-F: y₂

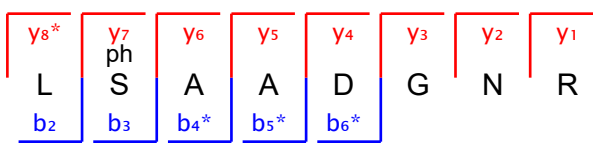
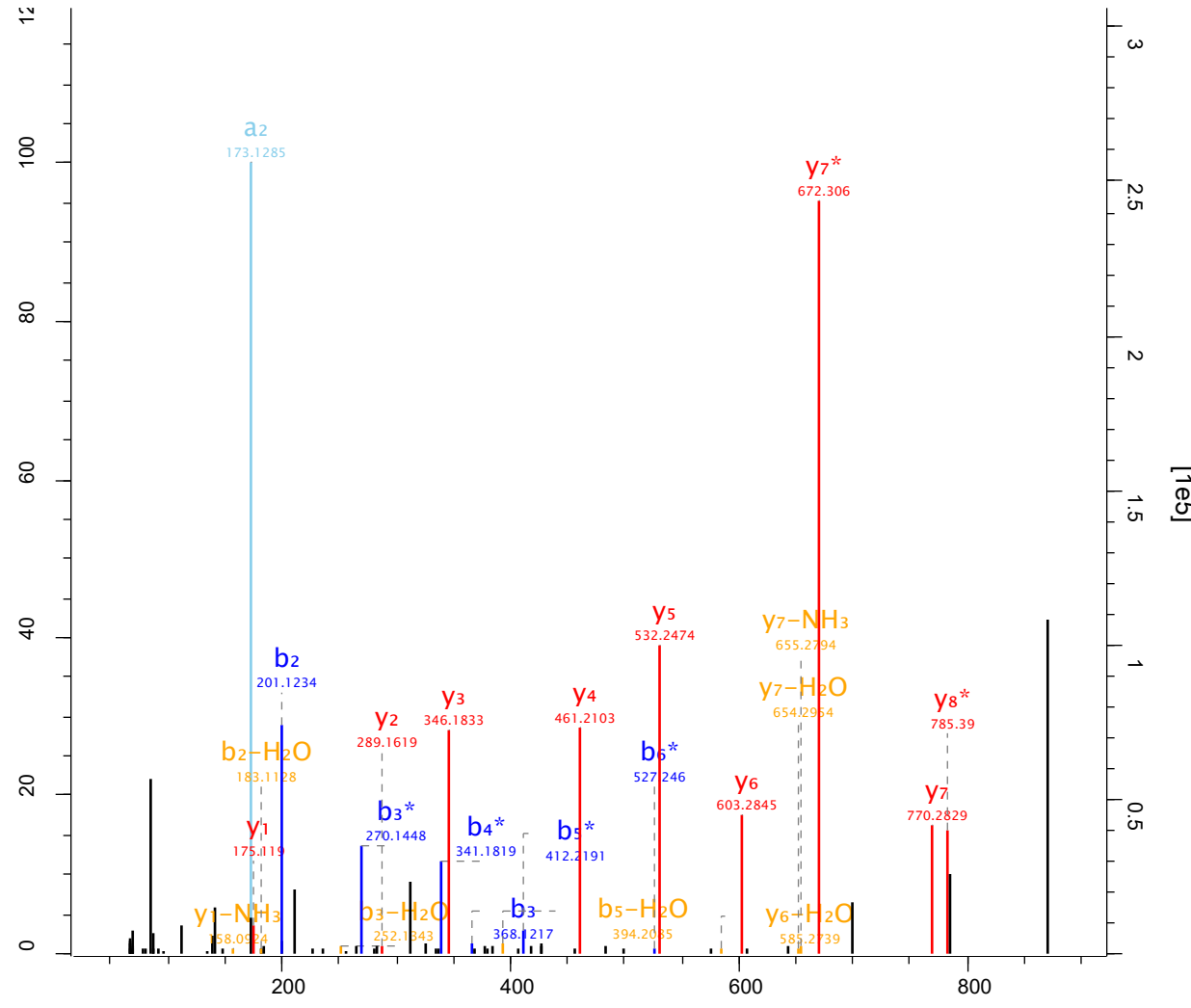
Raw file Scan Method Score m/z
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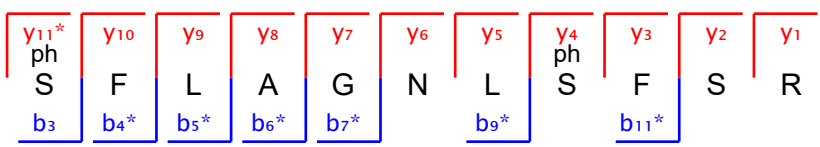
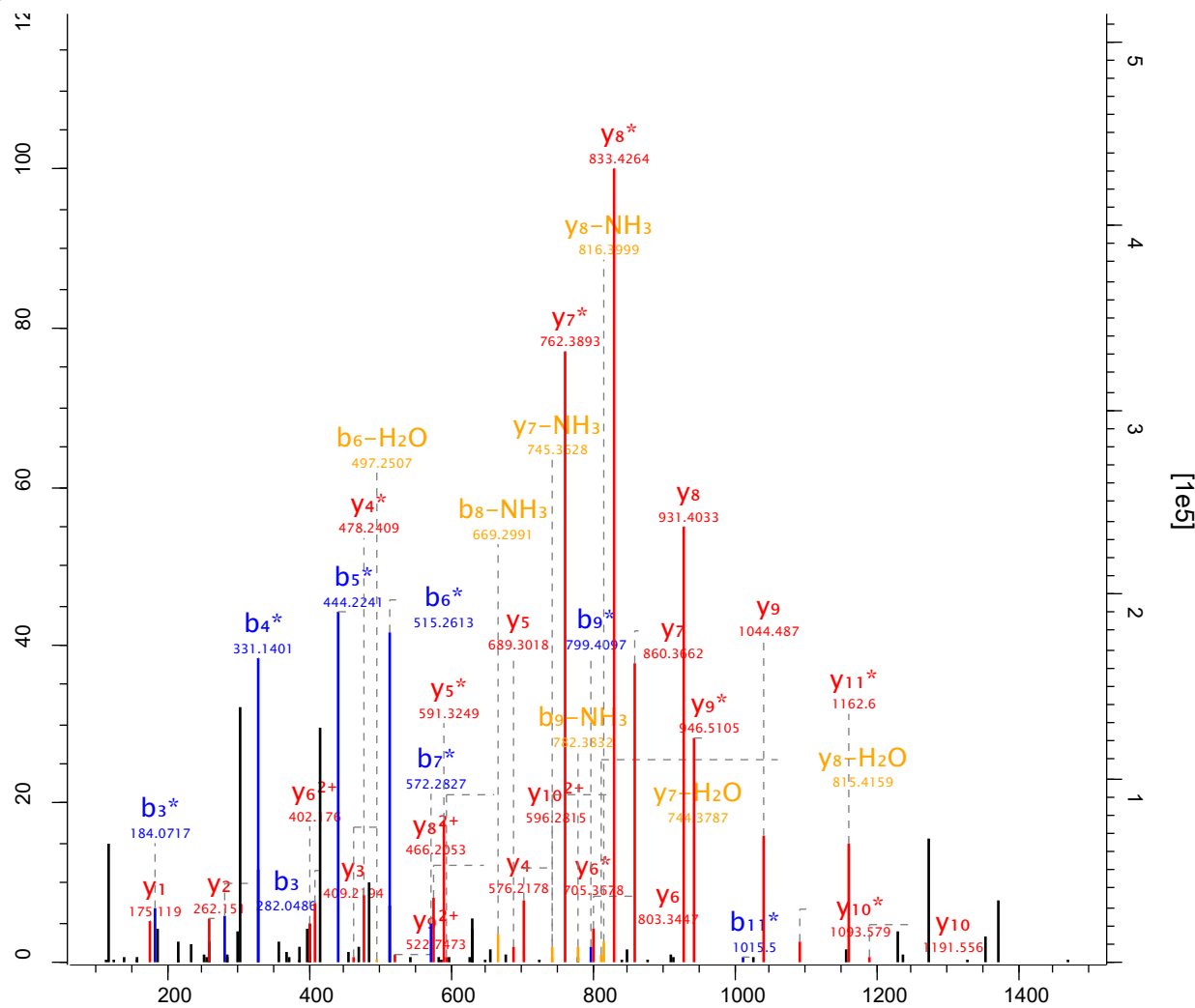
Raw file Scan Method Score m/z
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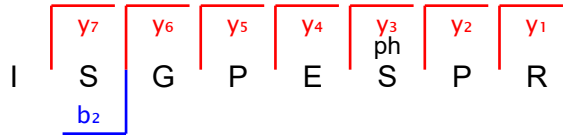
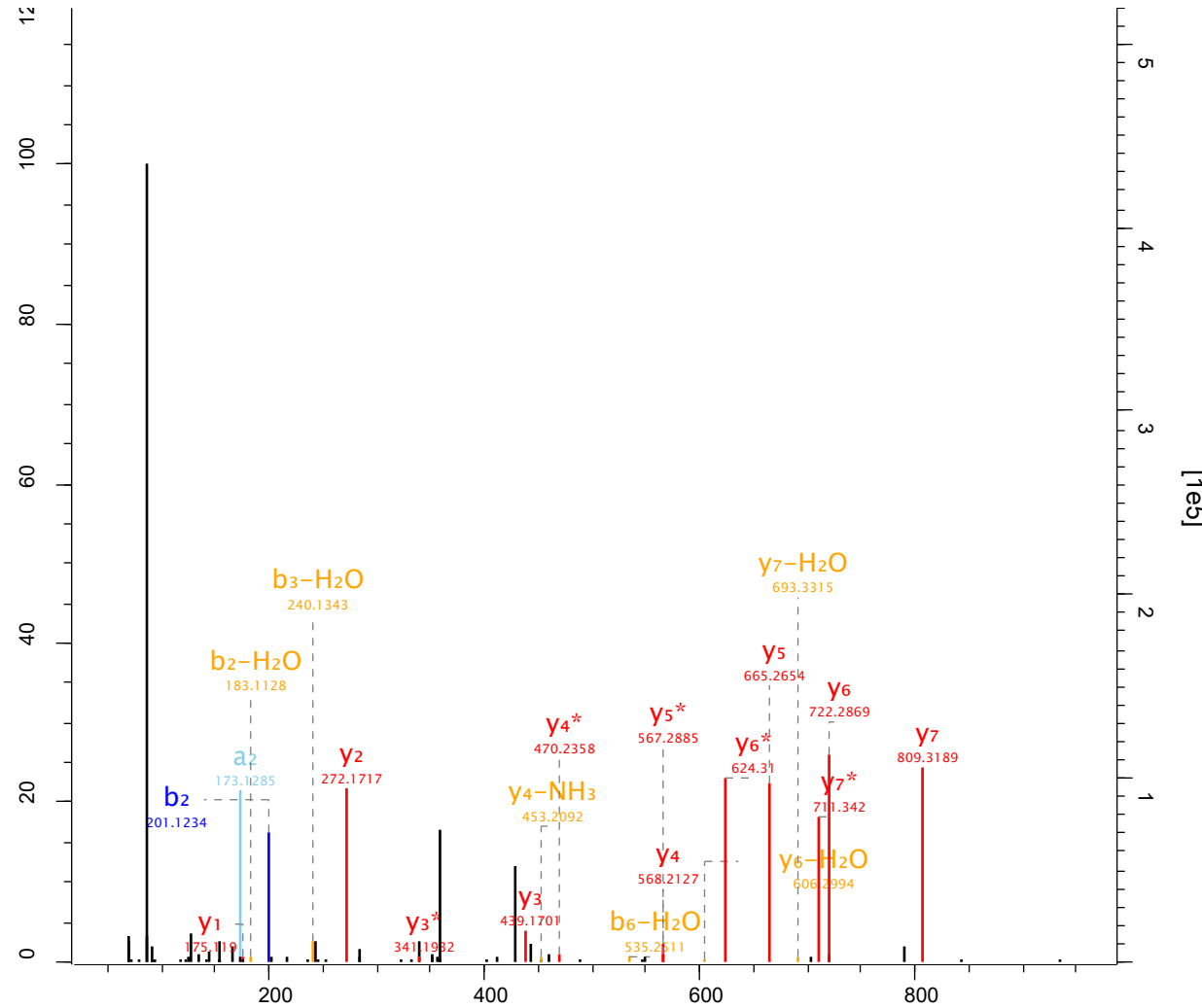
Raw file Scan Method Score m/z
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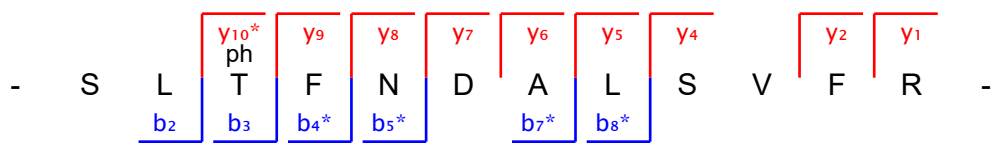
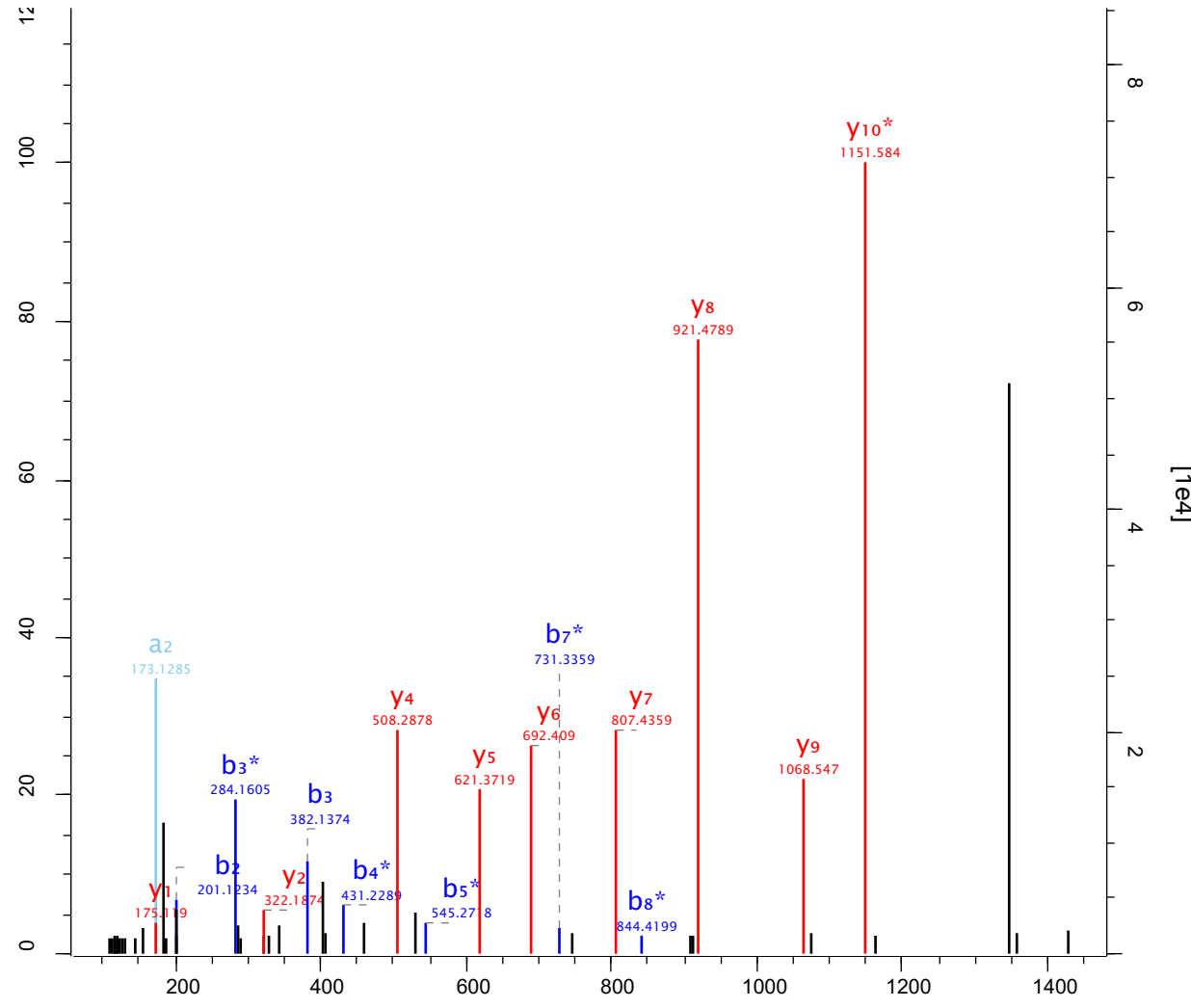
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 sys_05_1 39450 FTMS; HCD 146.78 736.8



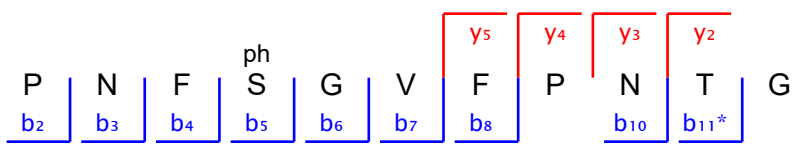
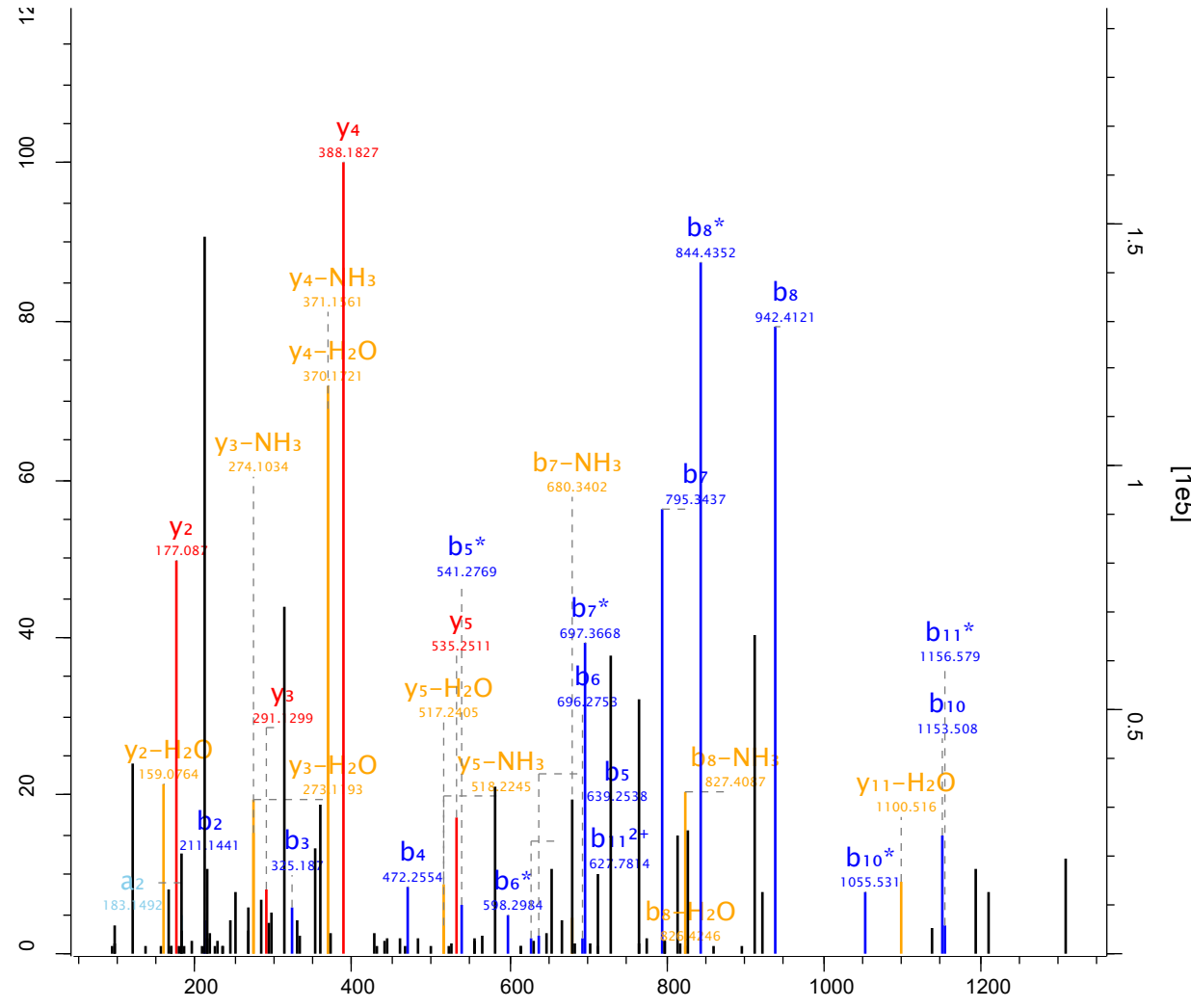
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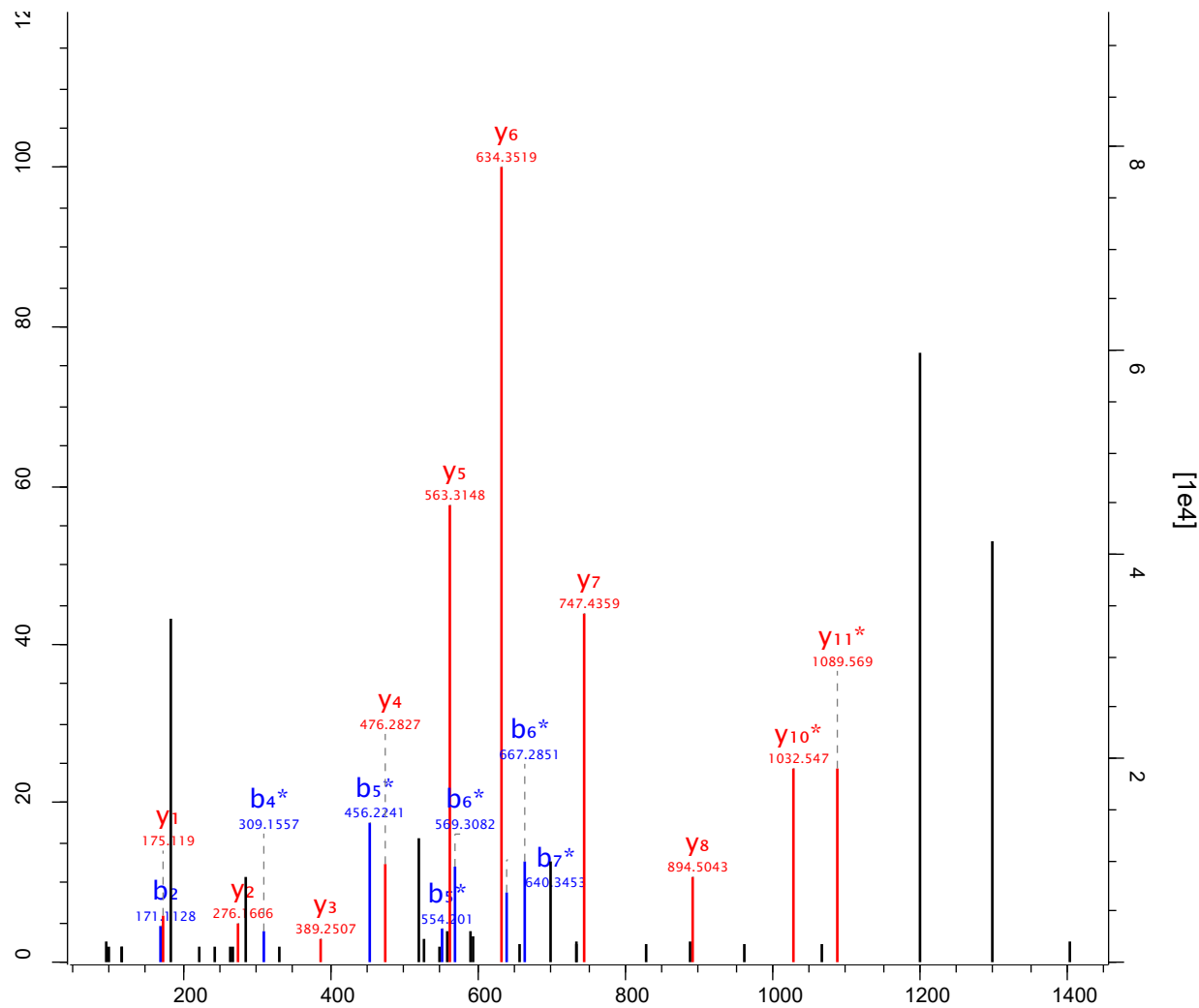
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Raw file Scan Method Score m/z
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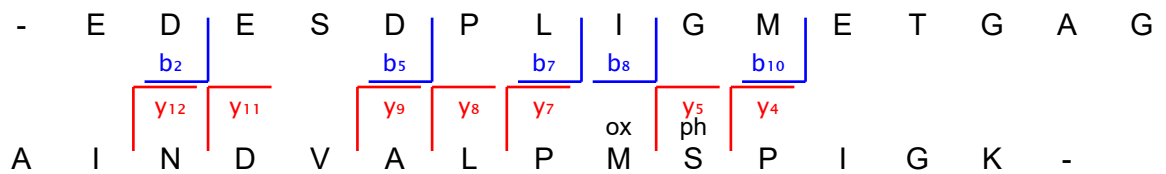
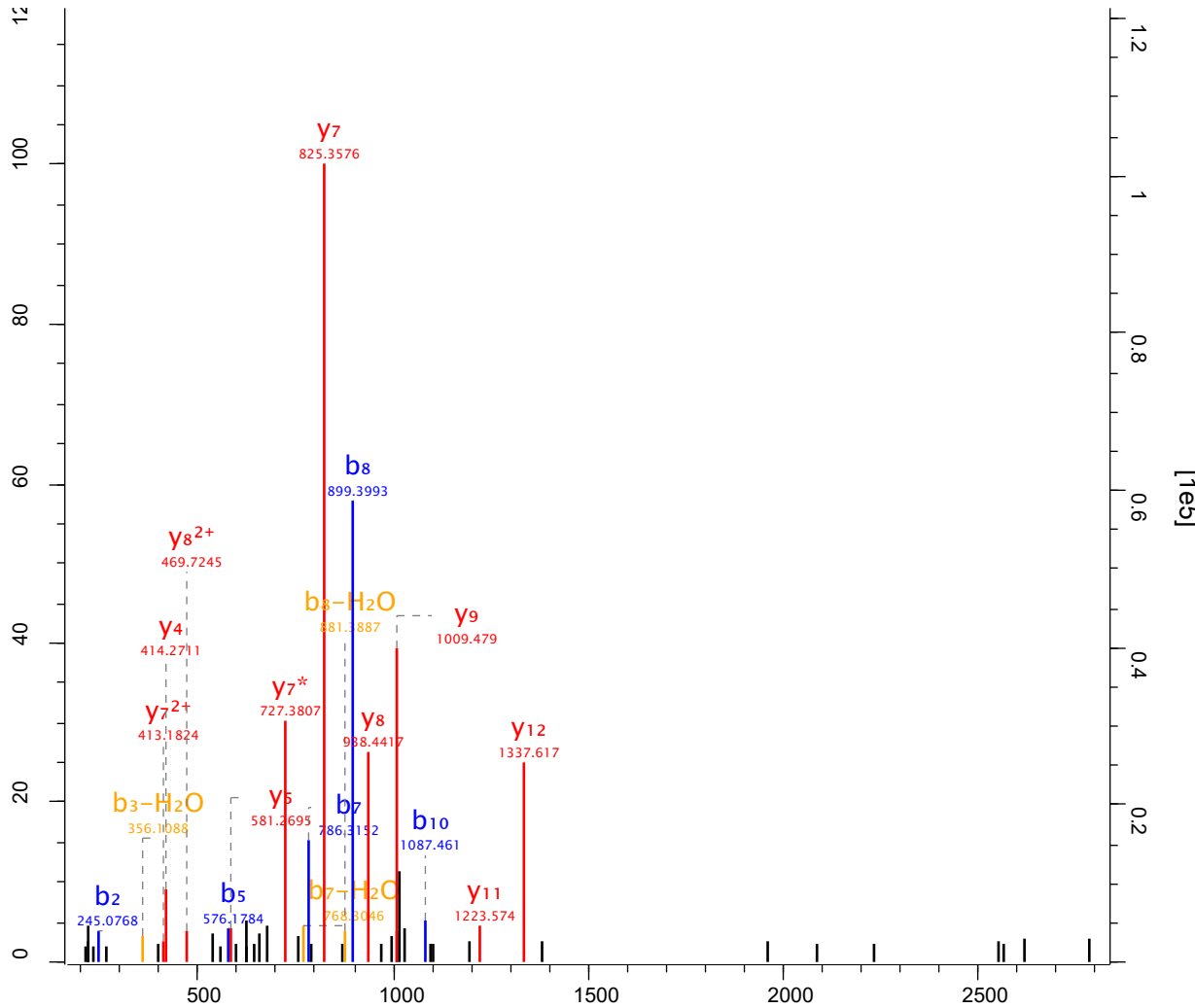


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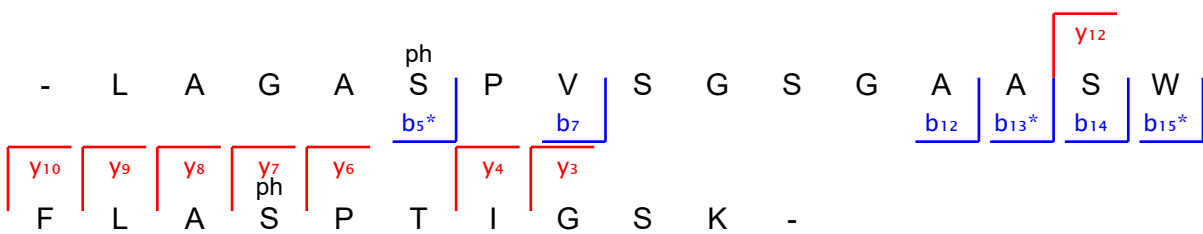
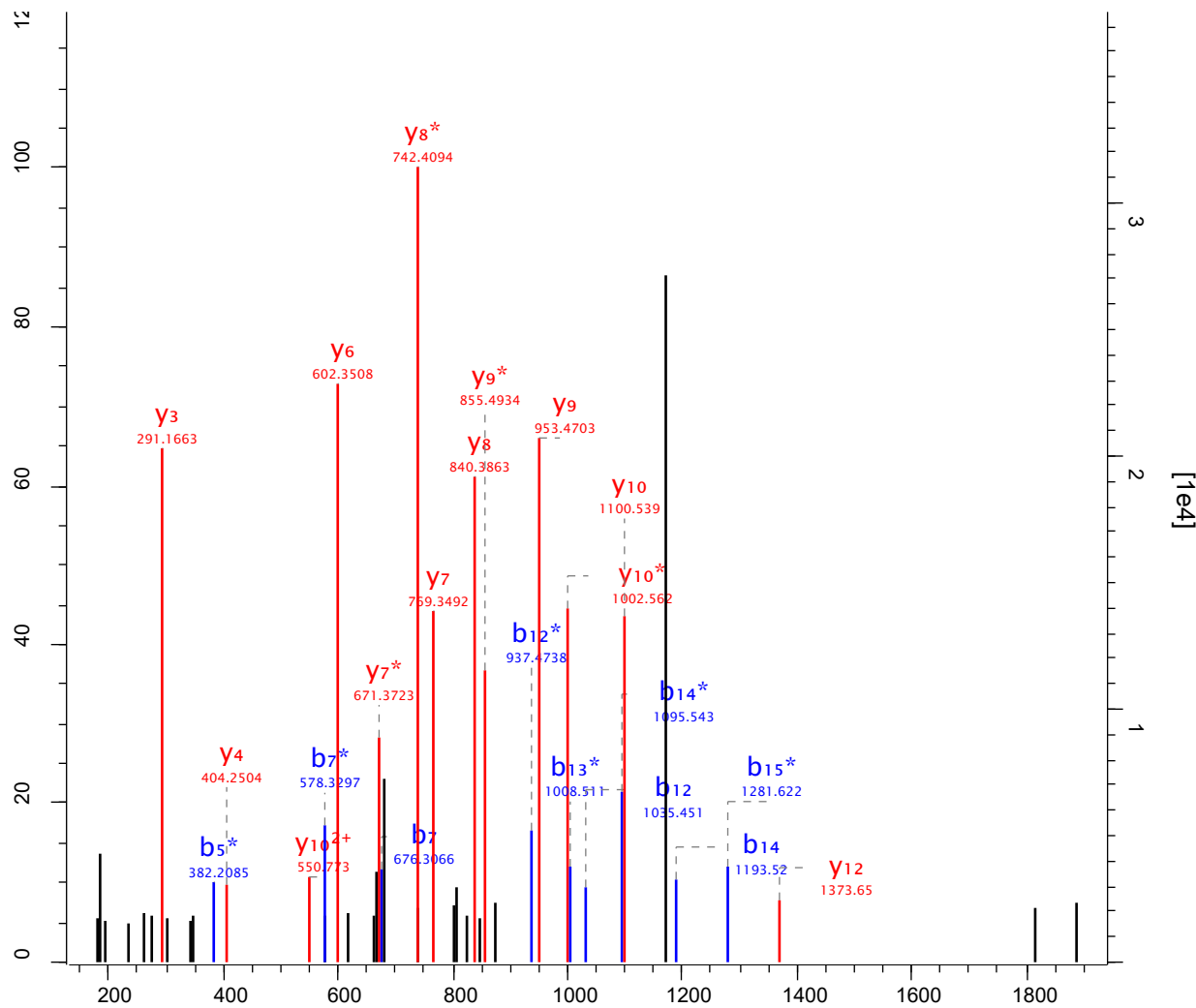


- L y11* y10* ph S y8 y7 y6 y5 y4 y3 y2 y1 -
 G b2 S b4* F b5* L b6* A b7* S S L T R

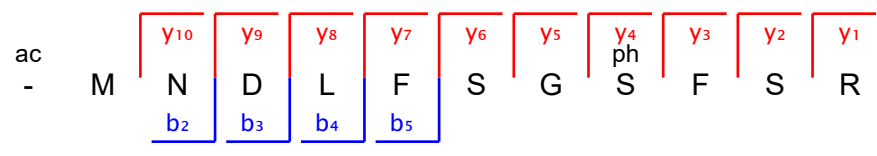
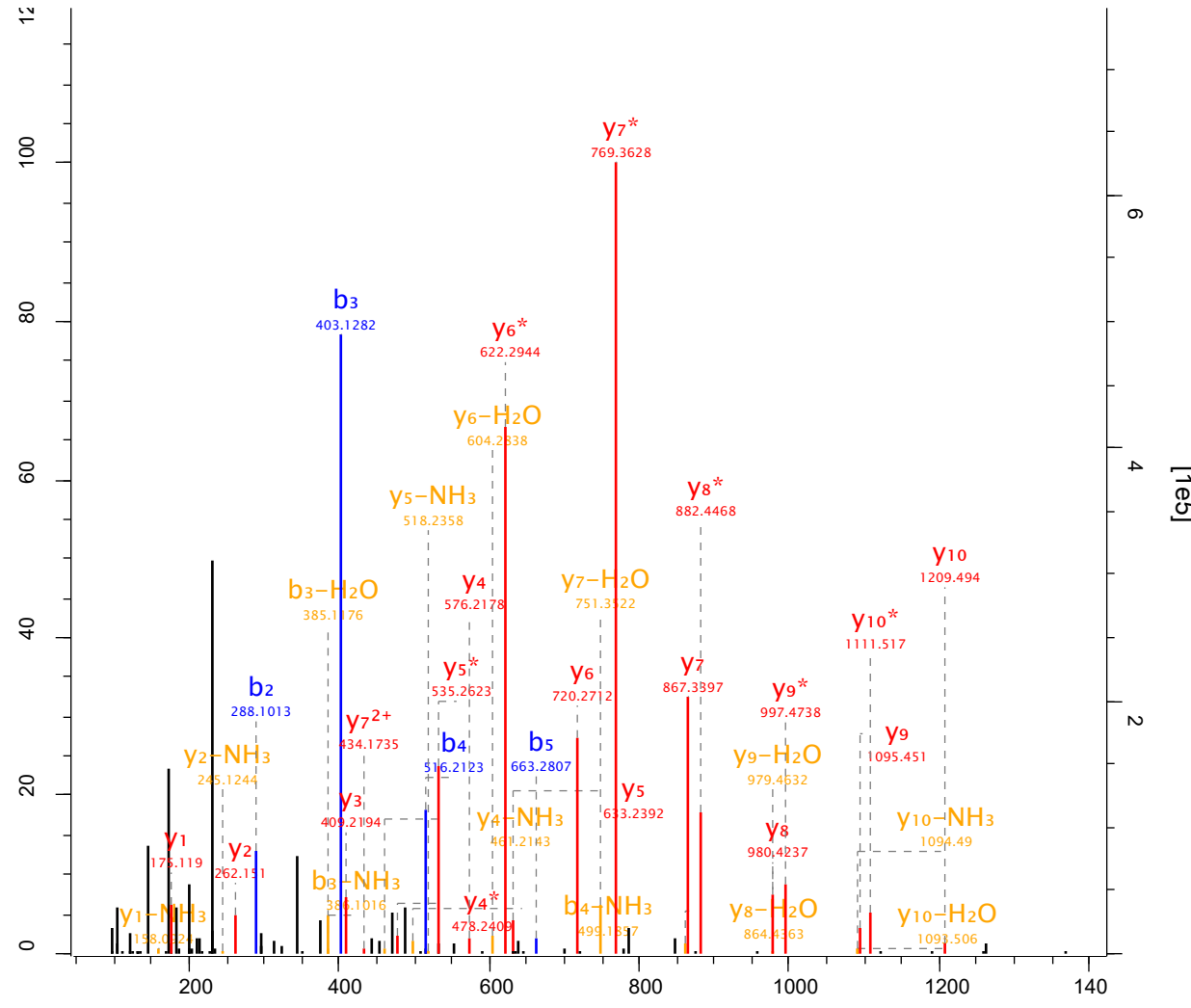
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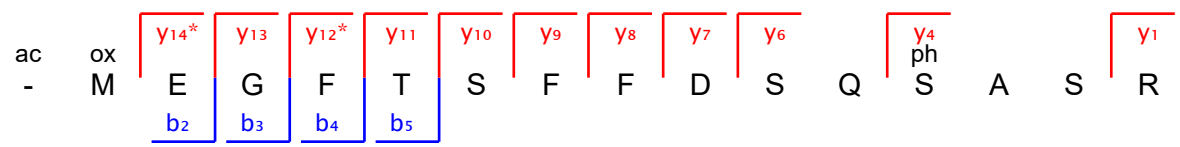
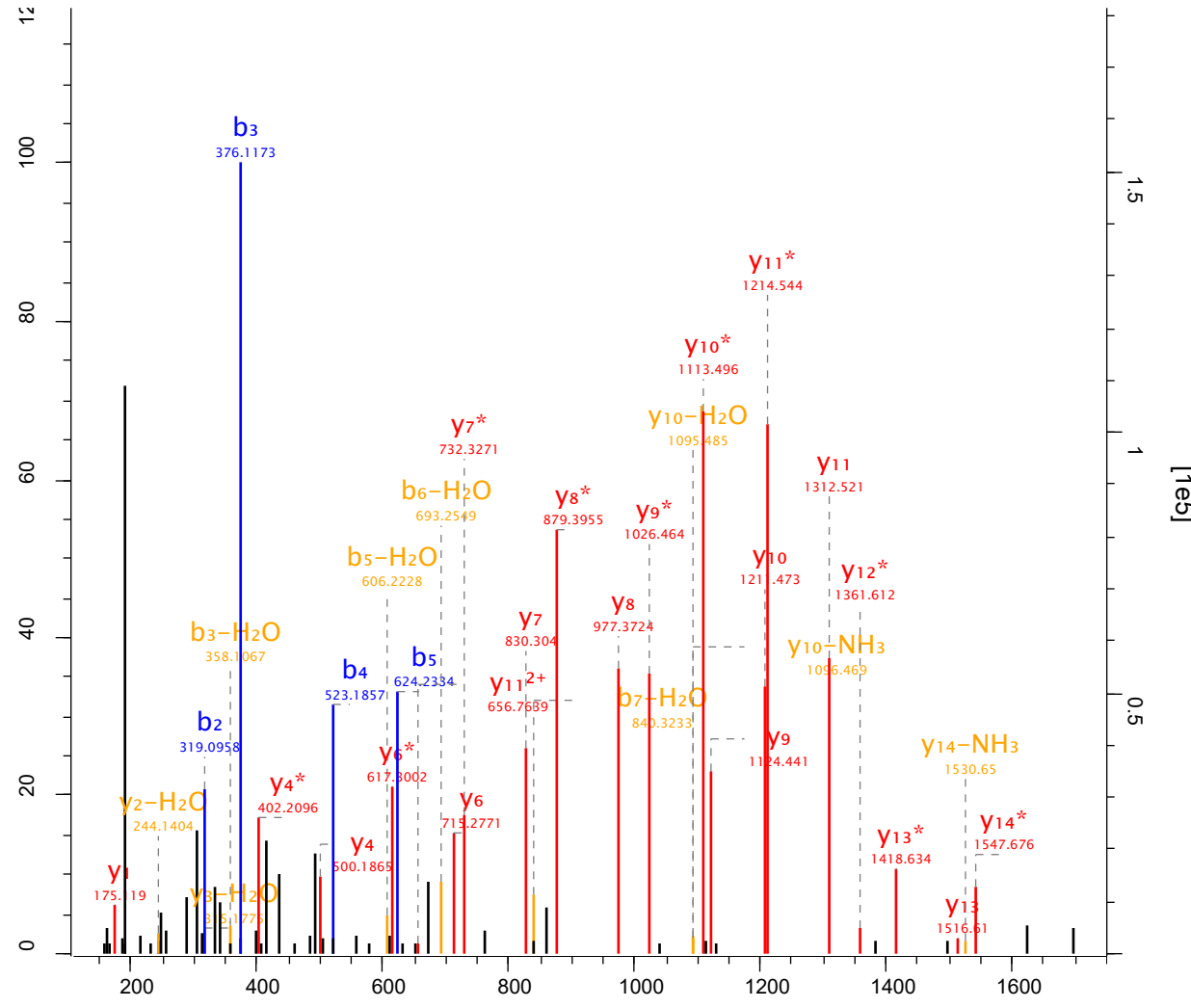
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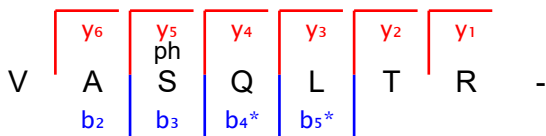
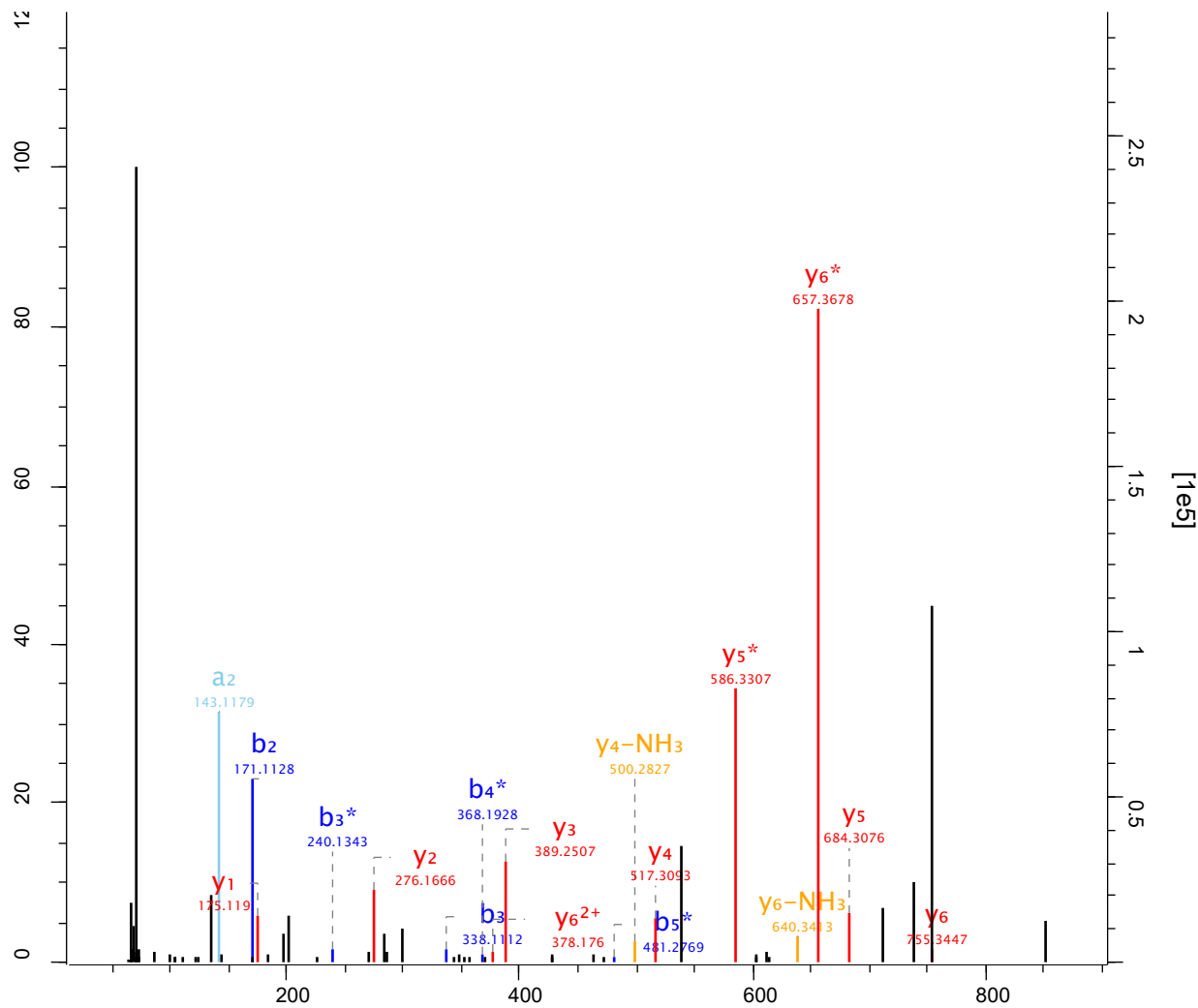
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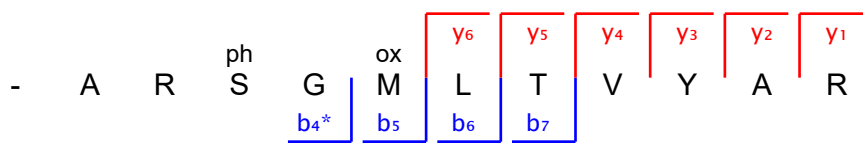
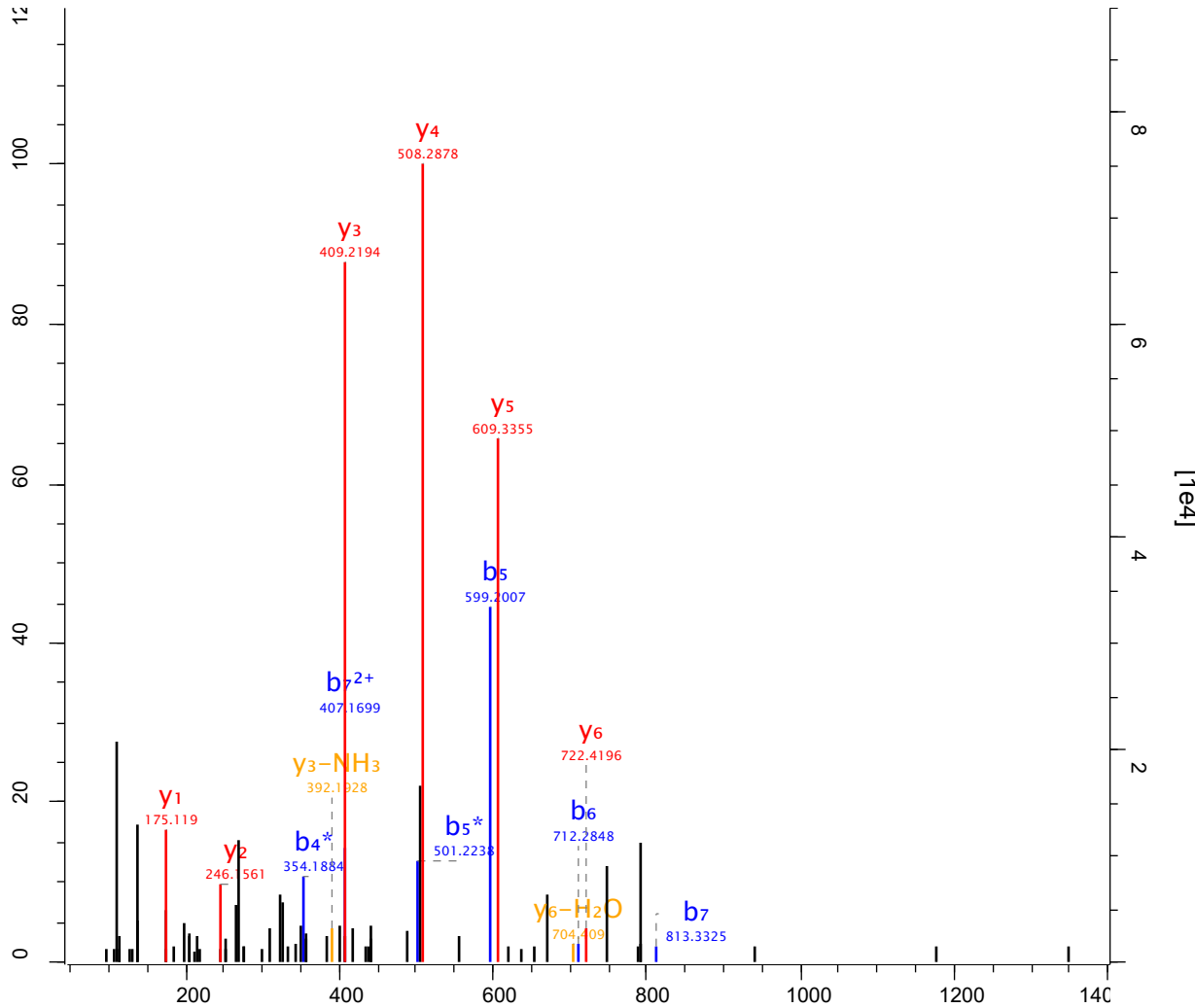
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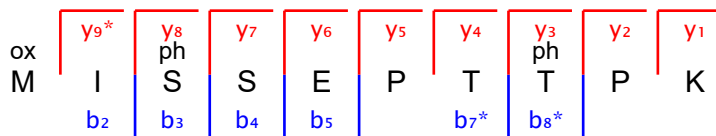
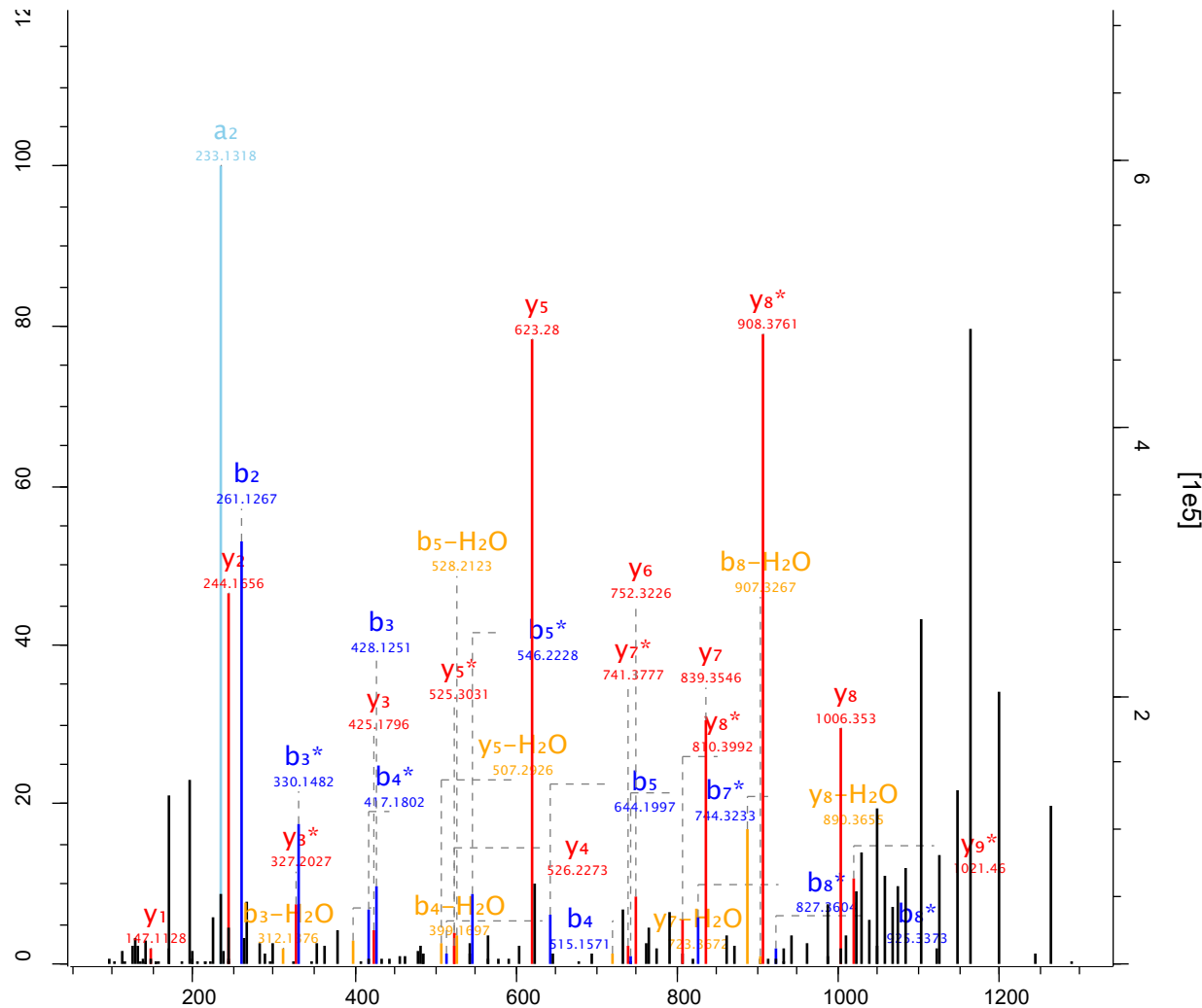
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sys_05_1	7339	FTMS; HCD	92.54	427.71



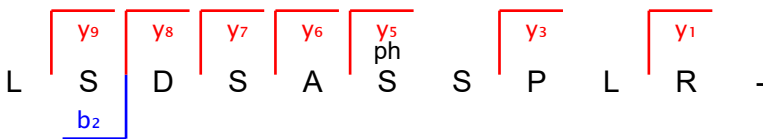
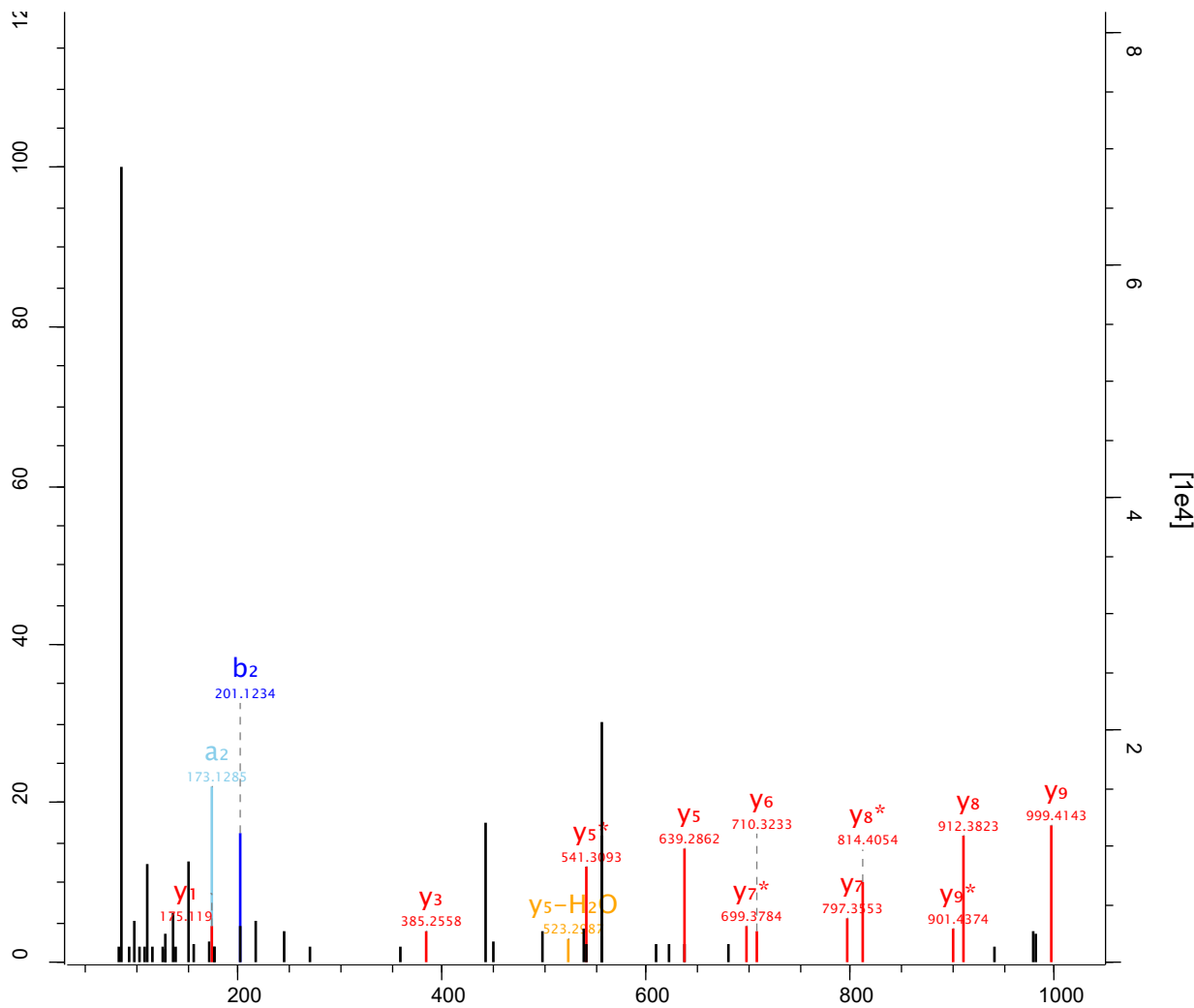
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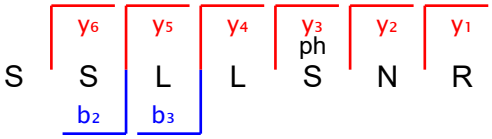
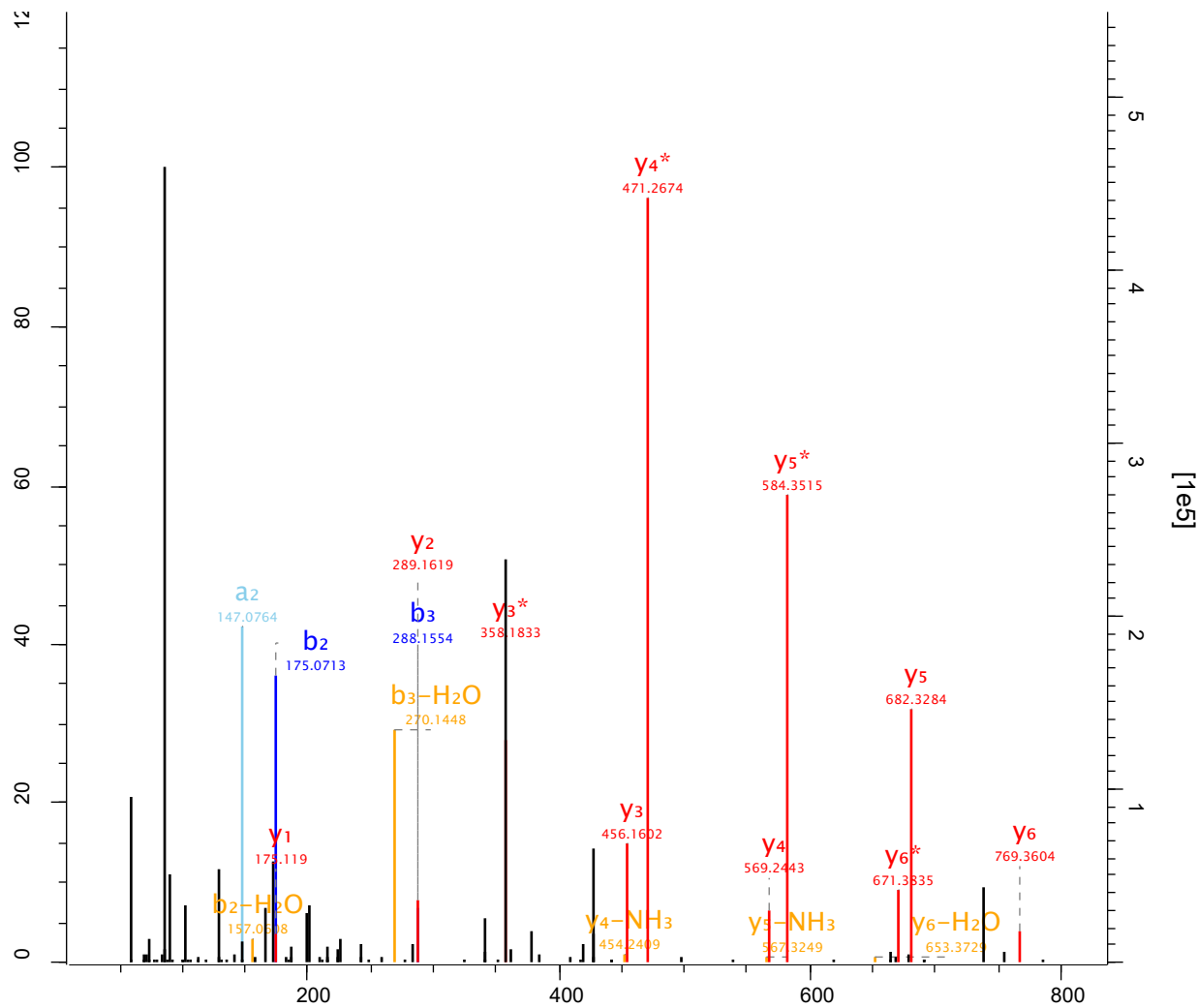
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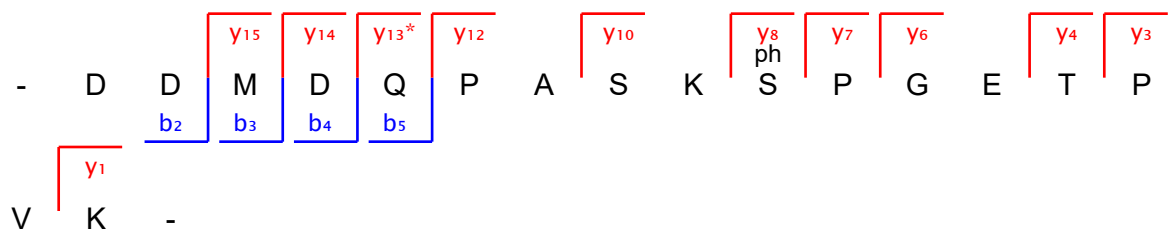
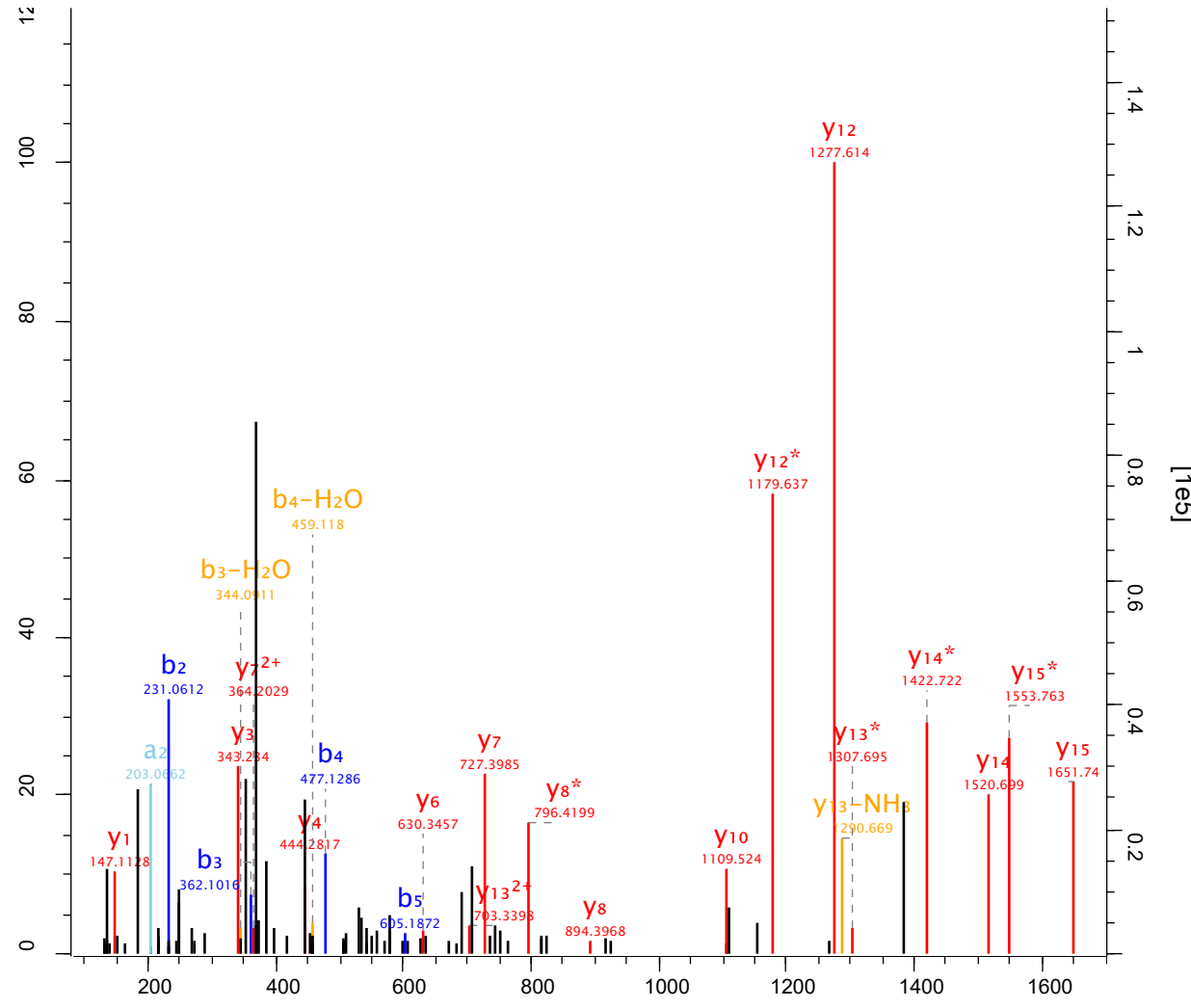
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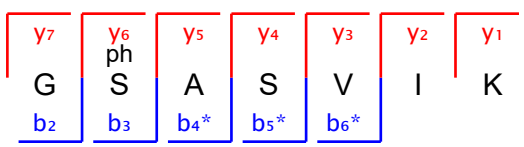
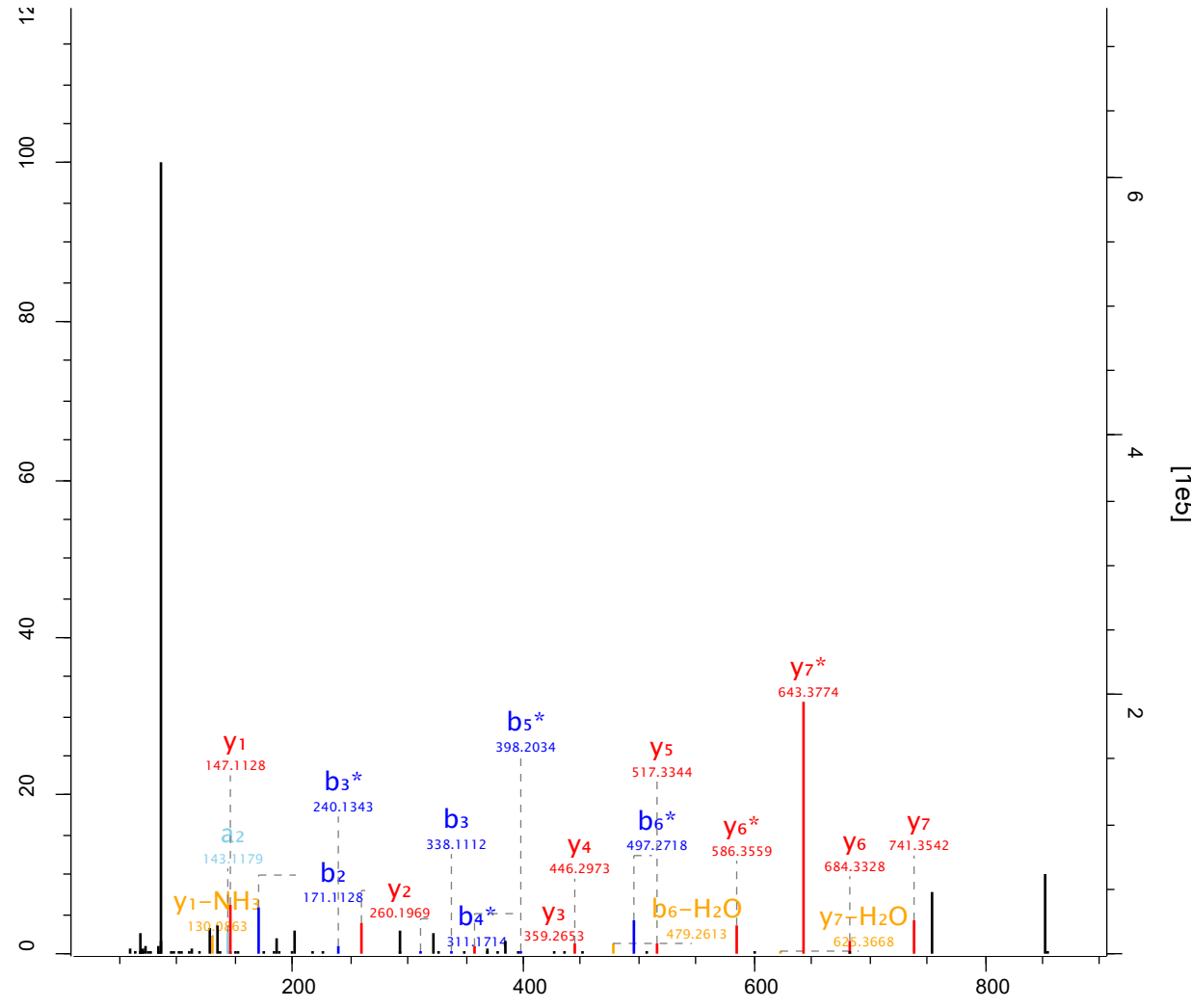
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Raw file Scan Method Score m/z
 sys_05_2 10137 FTMS; HCD 81.57 628.27



Raw file Scan Method Score m/z
 sys_05_2 10424 FTMS; HCD 96.11 427.72



Raw file Scan Method Score m/z
 sys_05_2 10455 FTMS; HCD 189.33 671.79

