

1 / 64

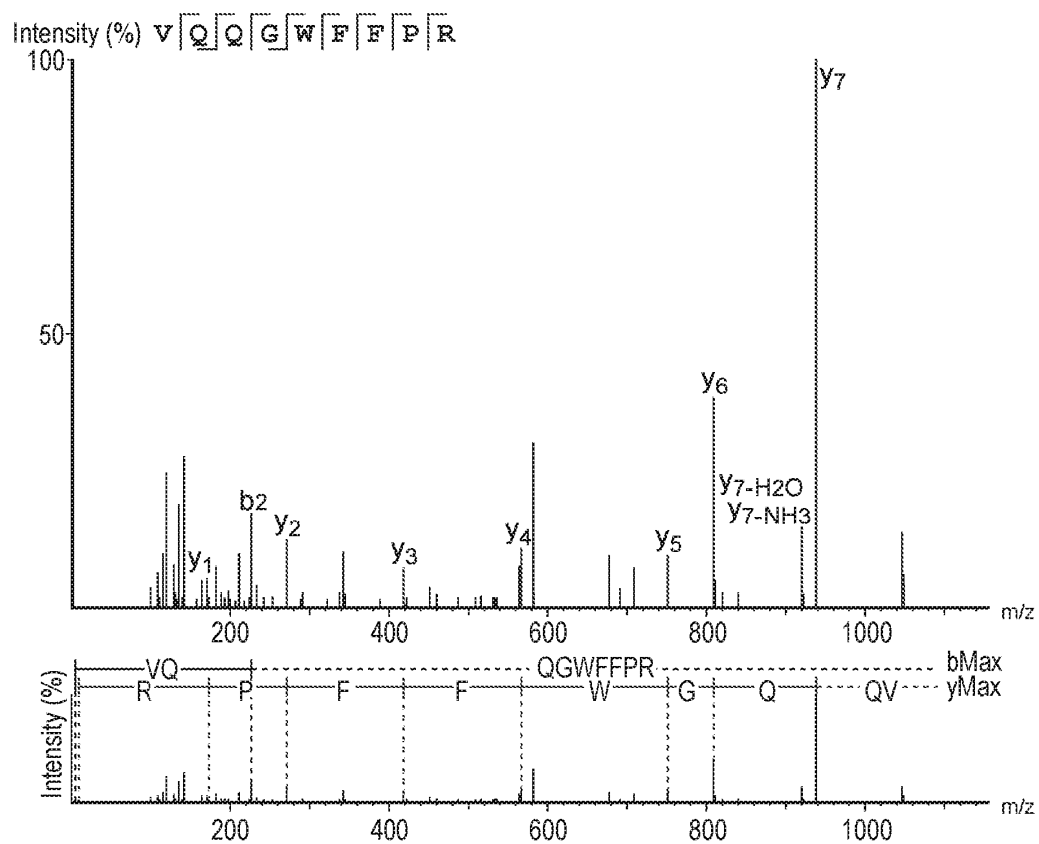


FIG. 1

2 / 64

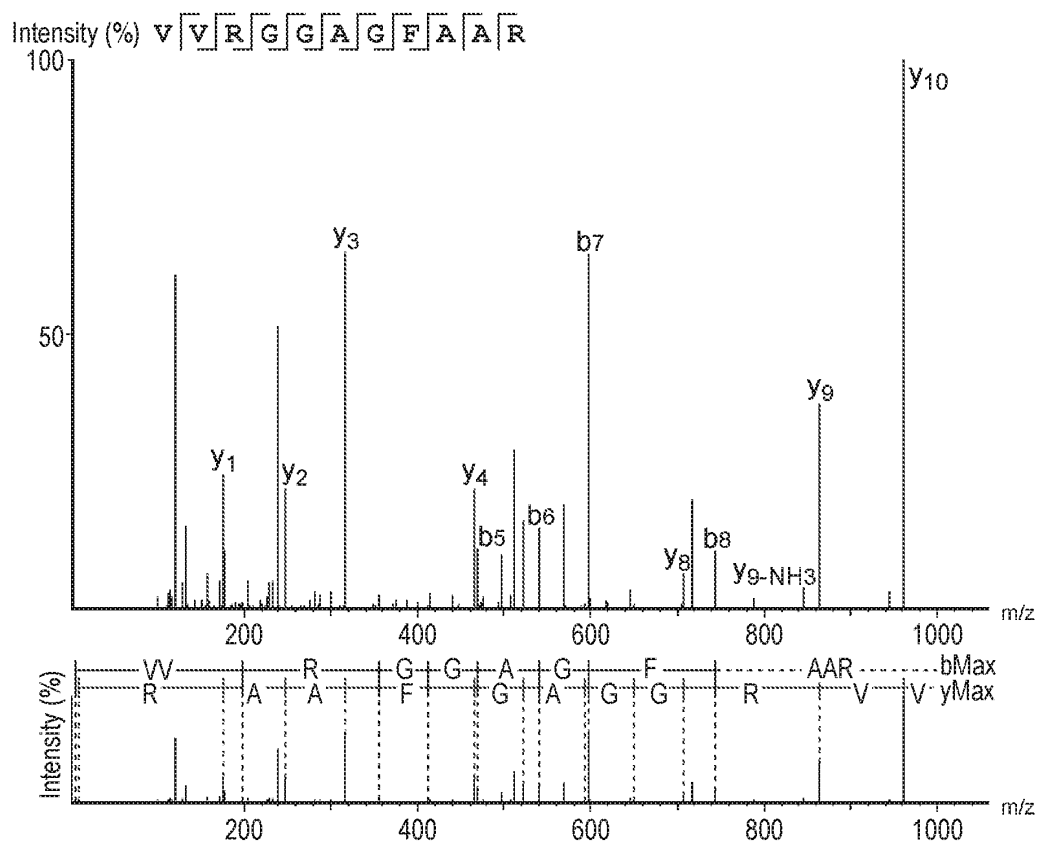


FIG. 2

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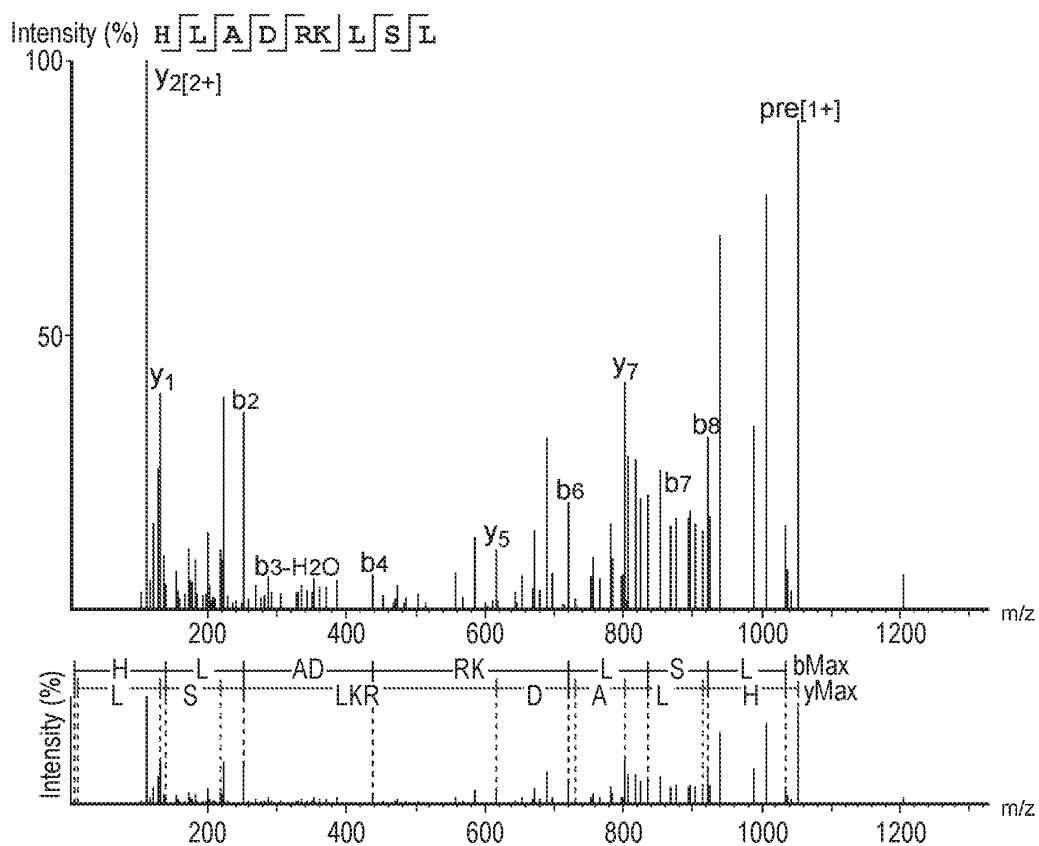


FIG. 3

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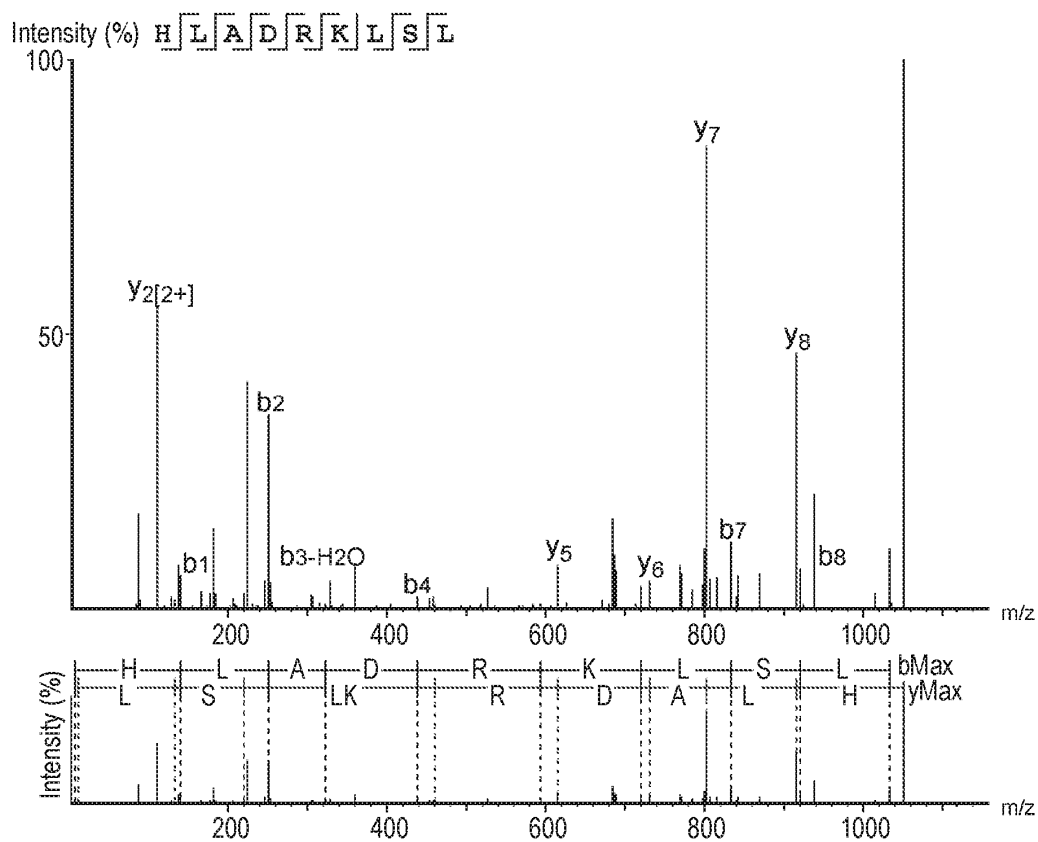


FIG. 4

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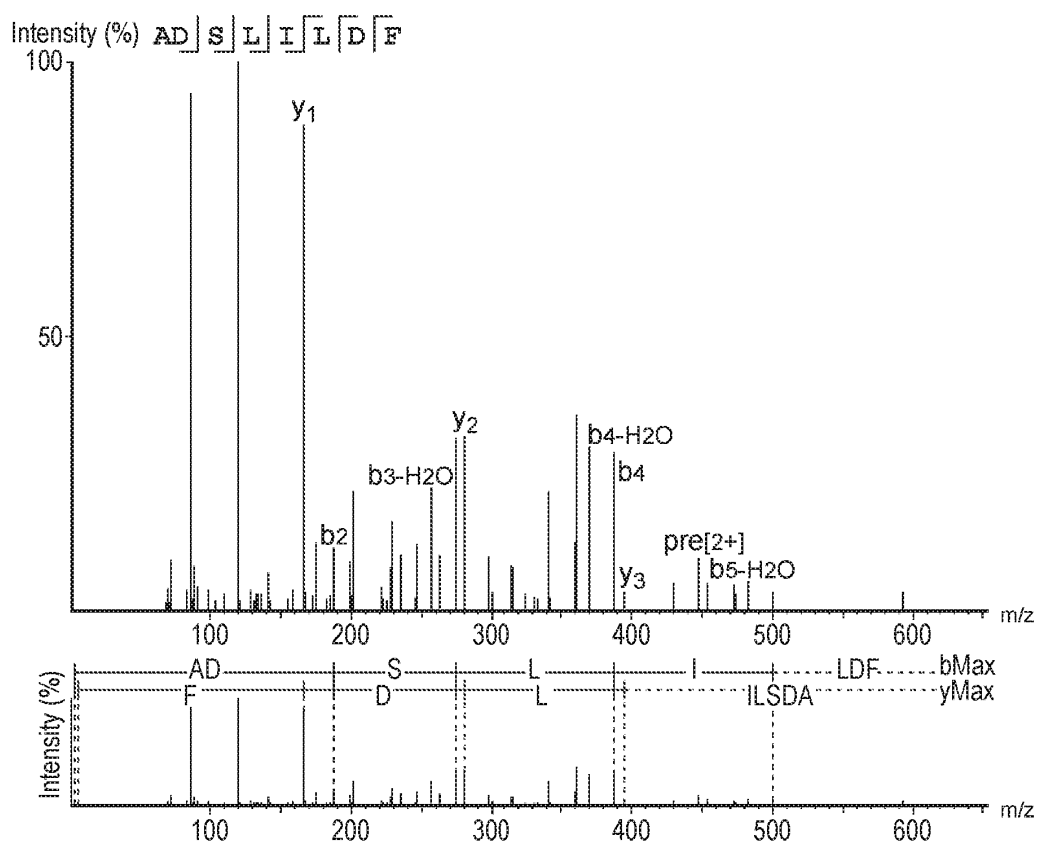


FIG. 5

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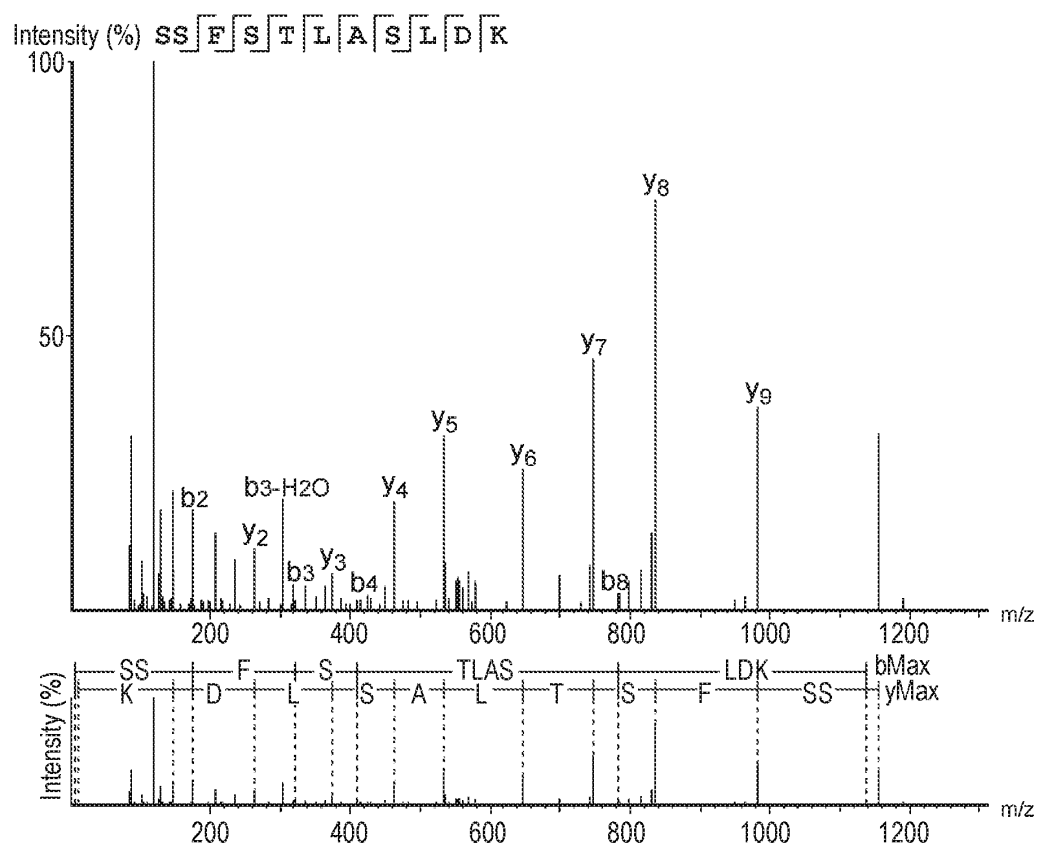


FIG. 6

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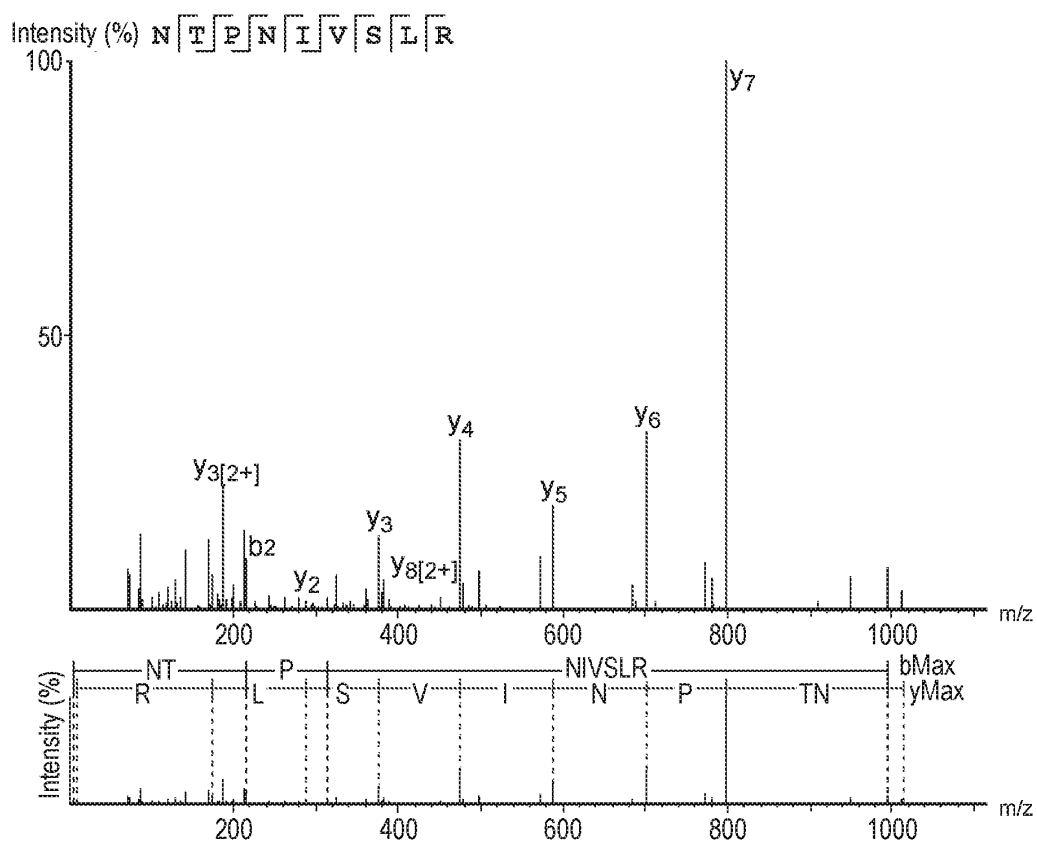


FIG. 7

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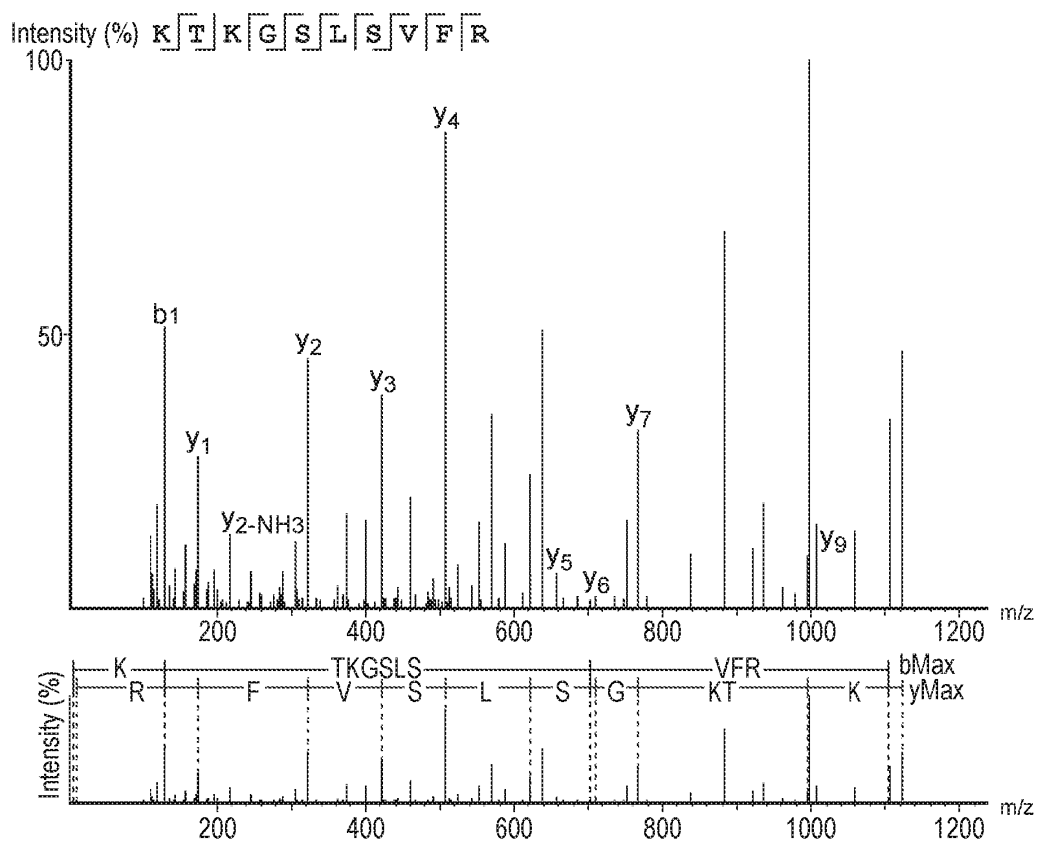


FIG. 8

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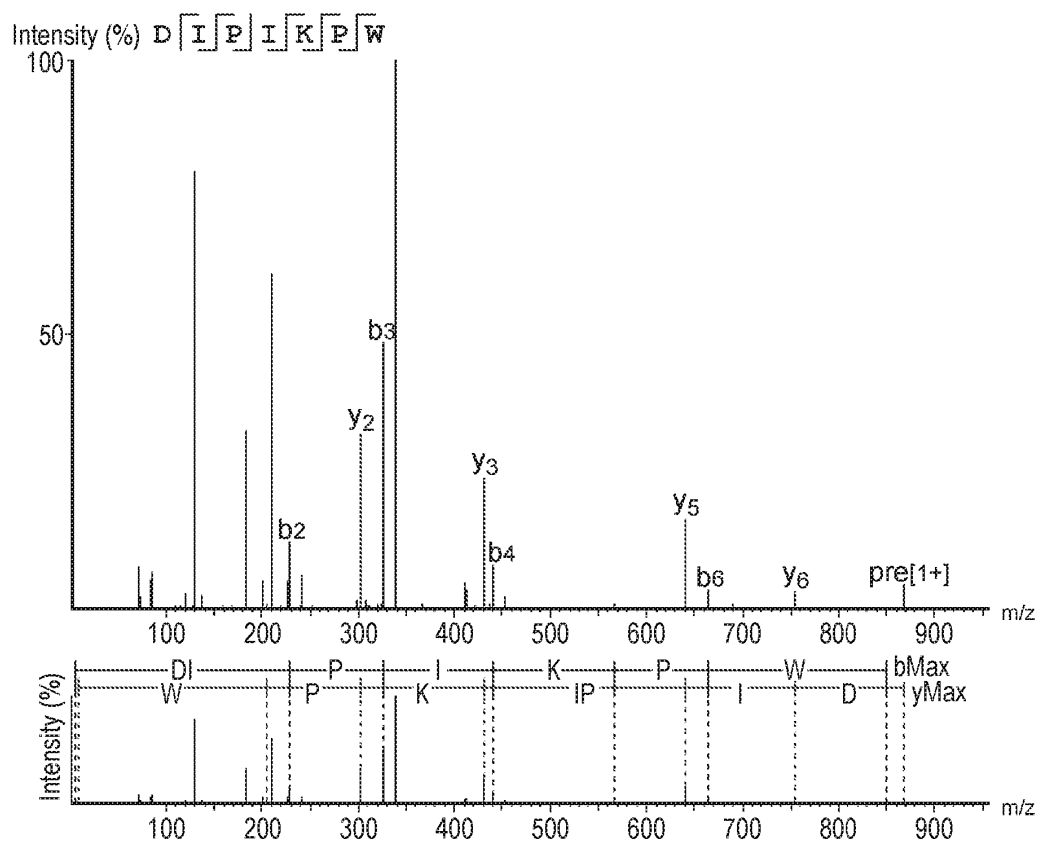


FIG. 9

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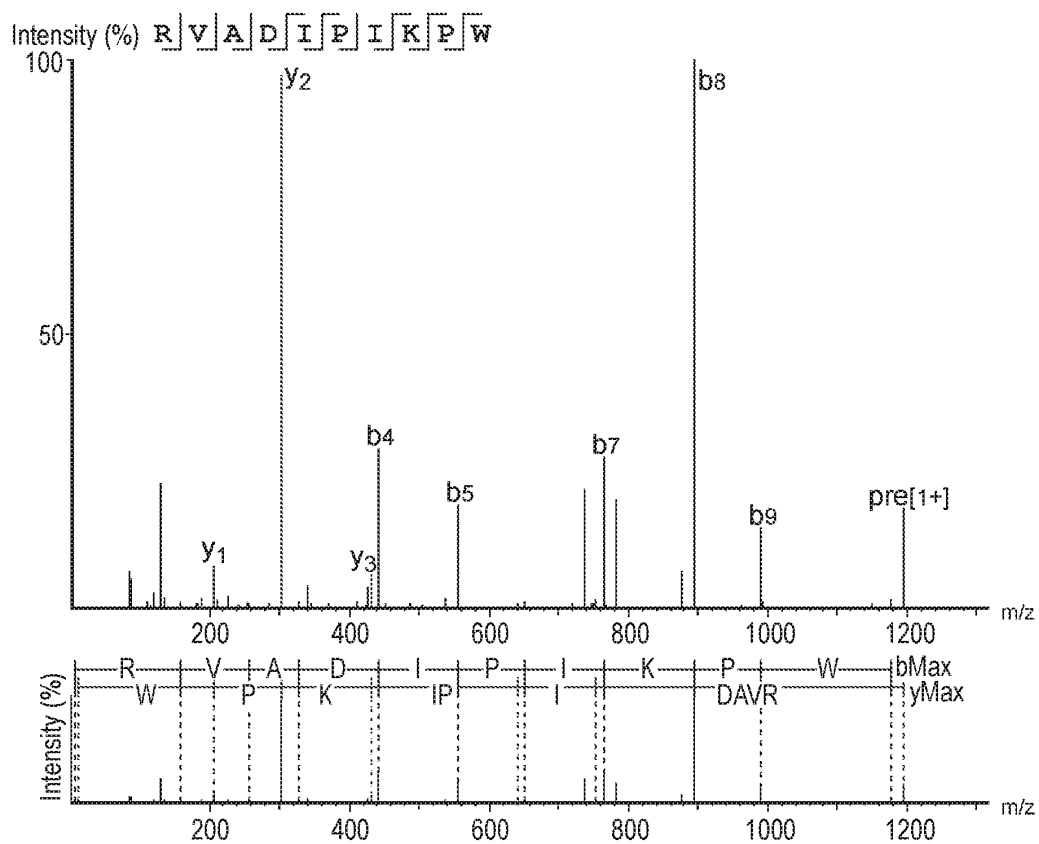


FIG. 10

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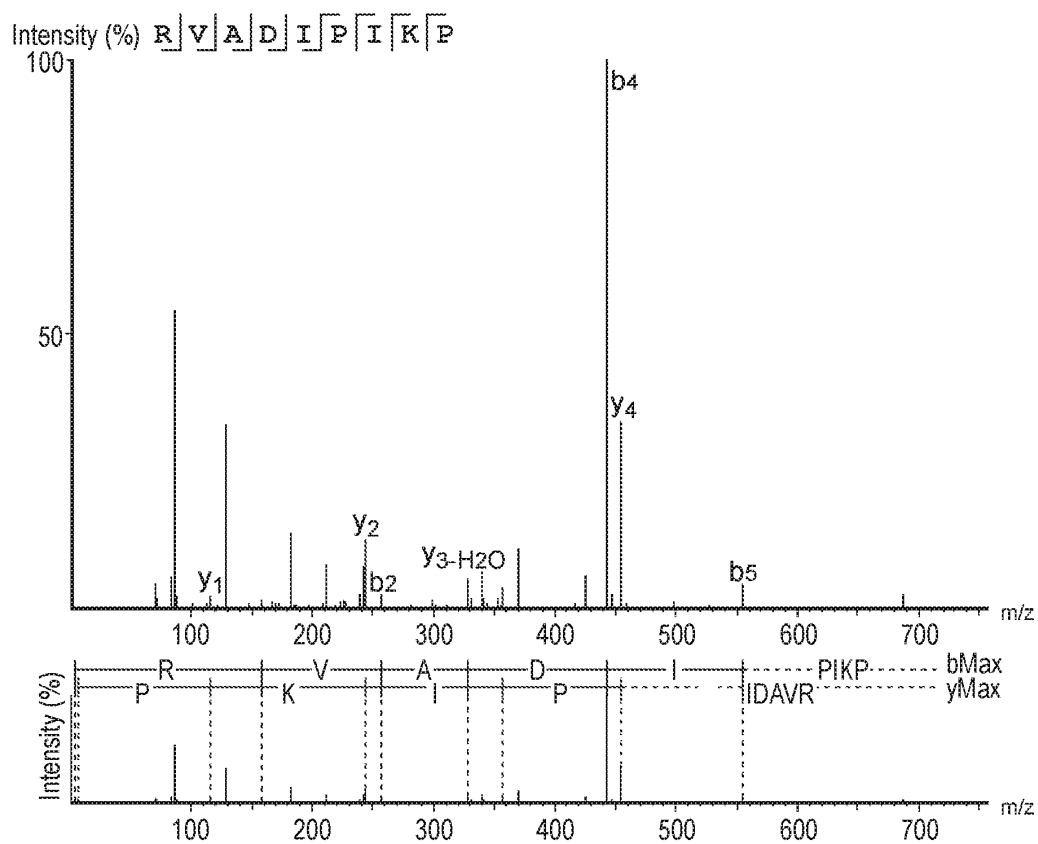


FIG. 11

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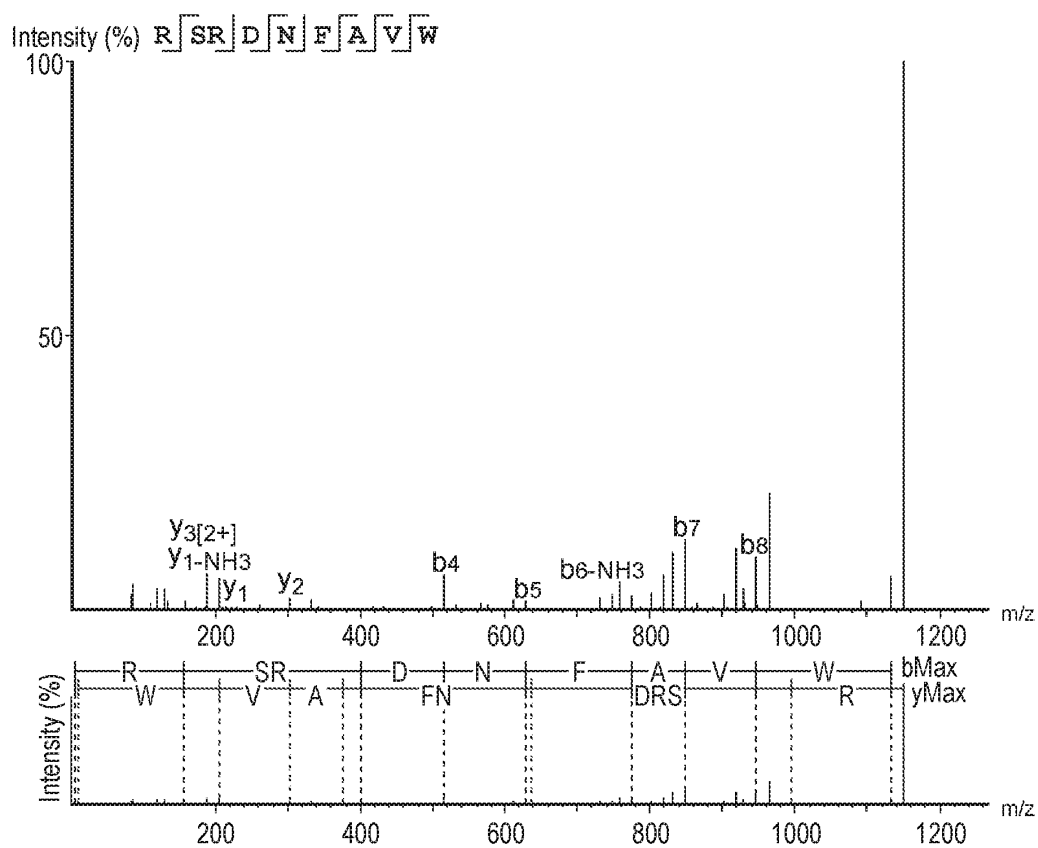


FIG. 12

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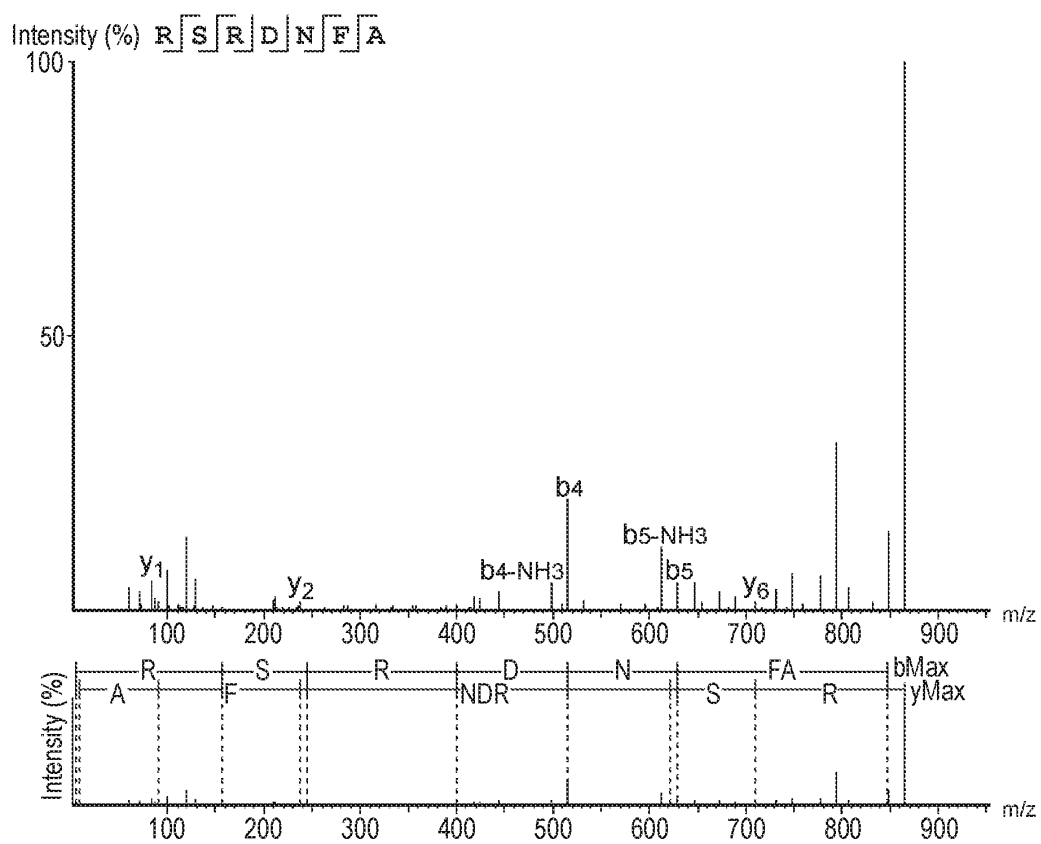


FIG. 13

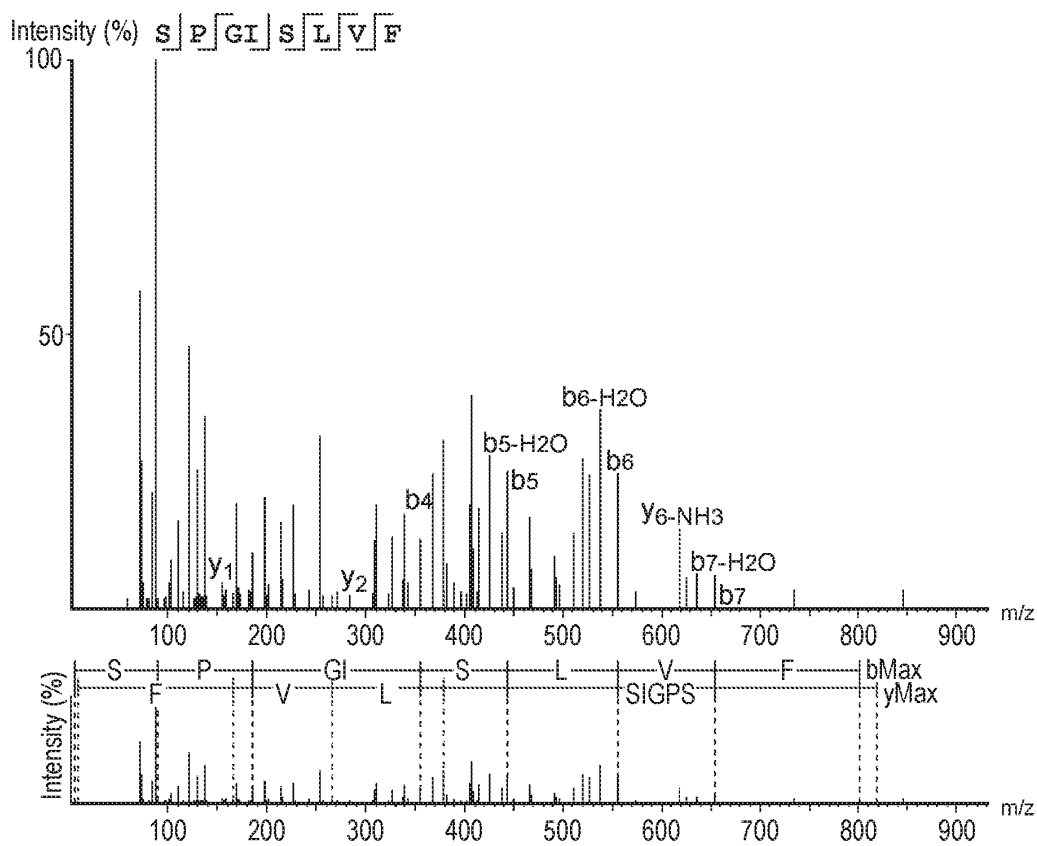


FIG. 14

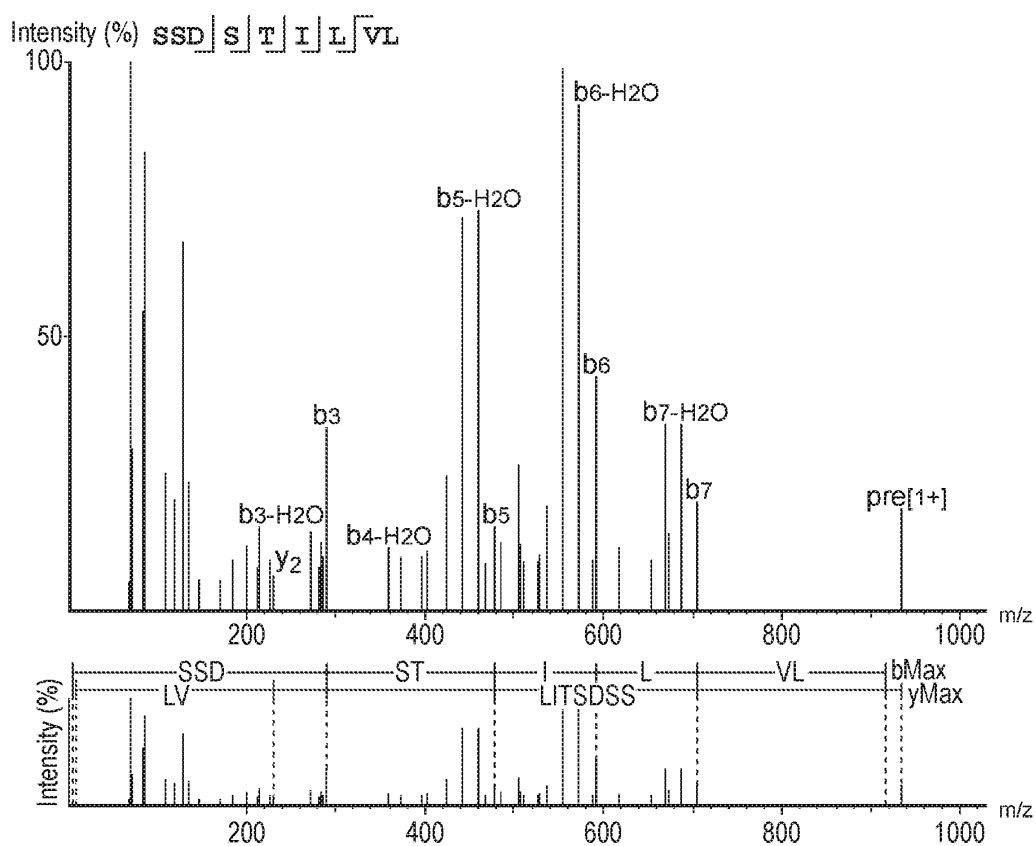


FIG. 15

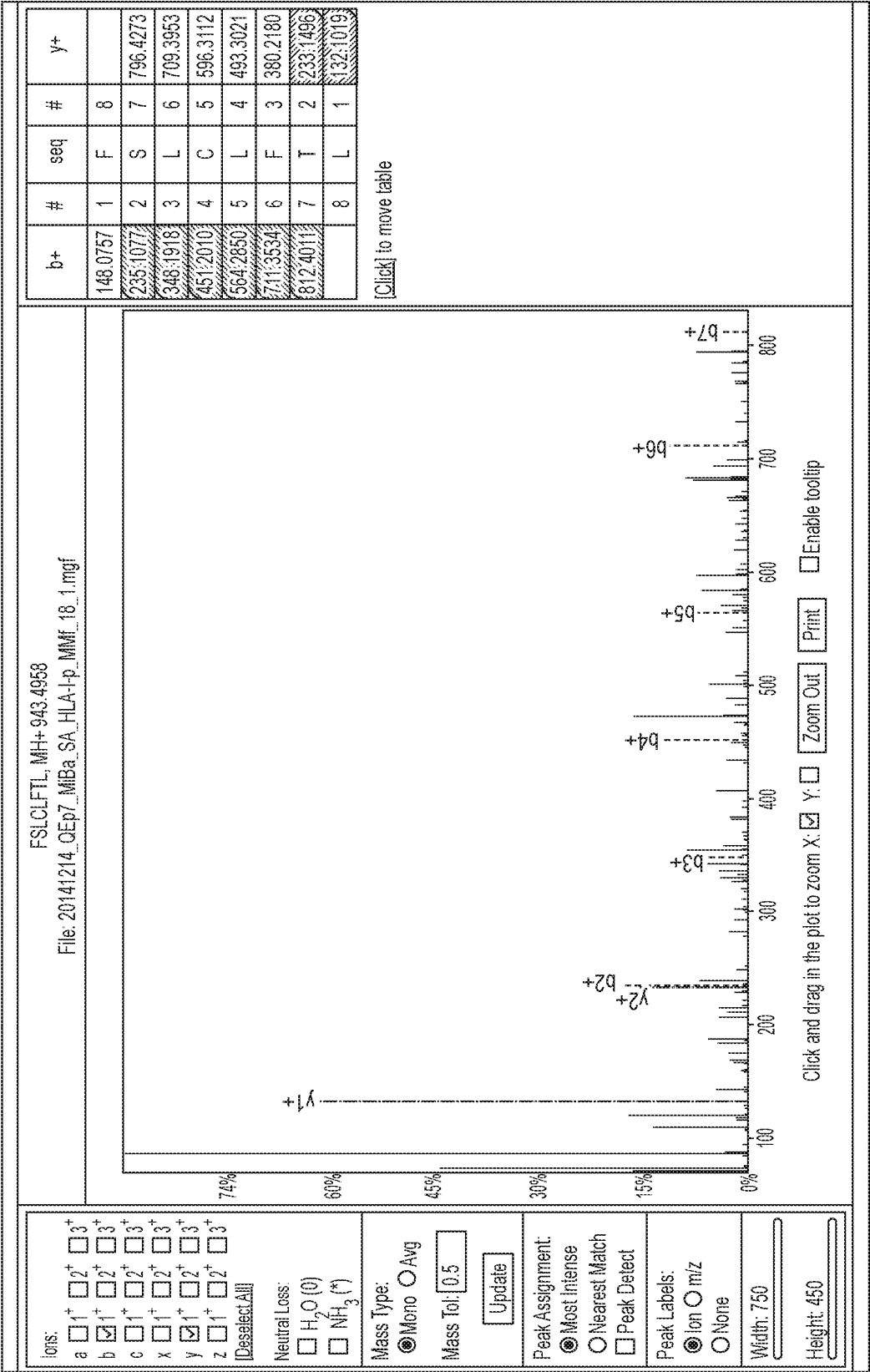


FIG. 20

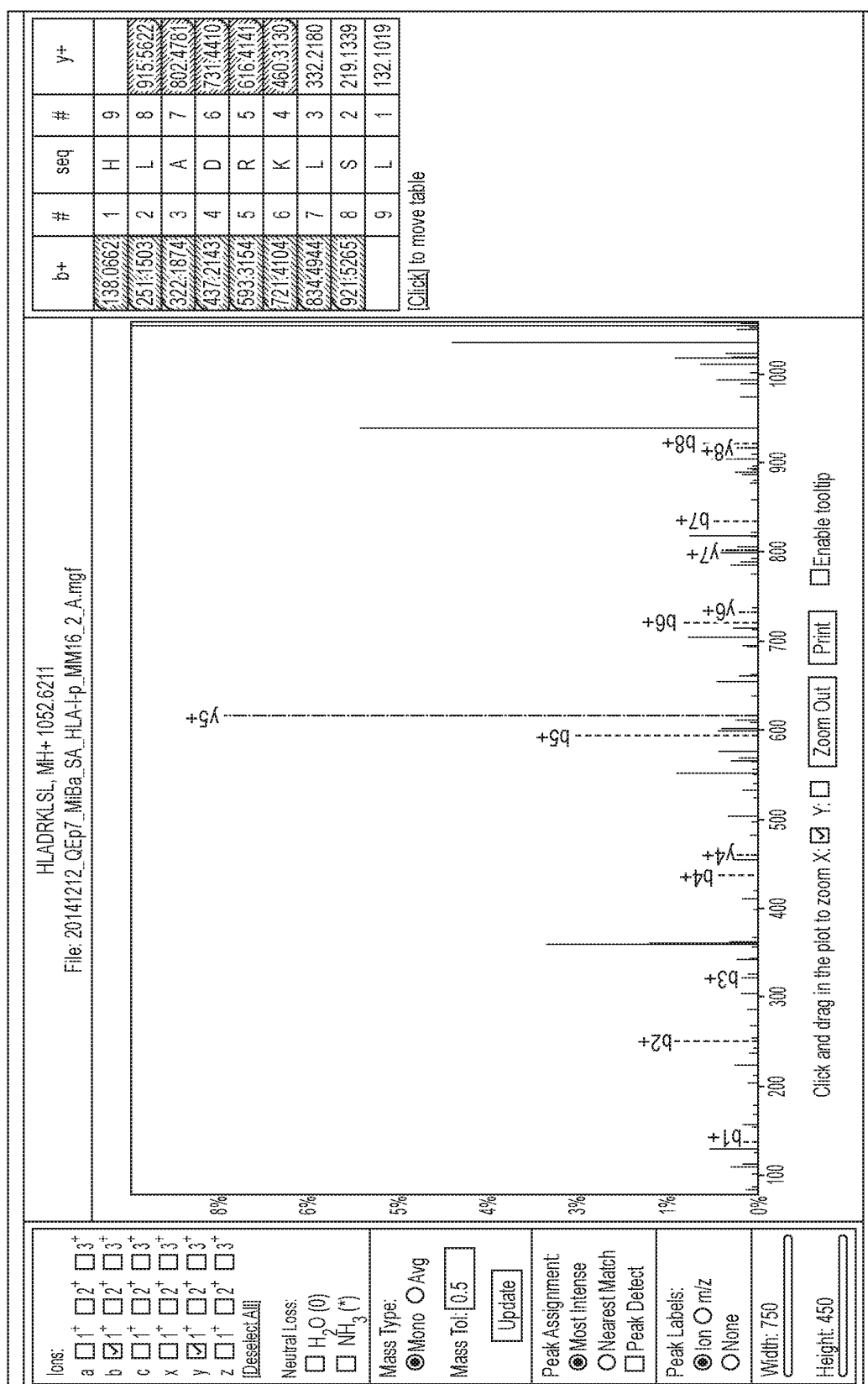
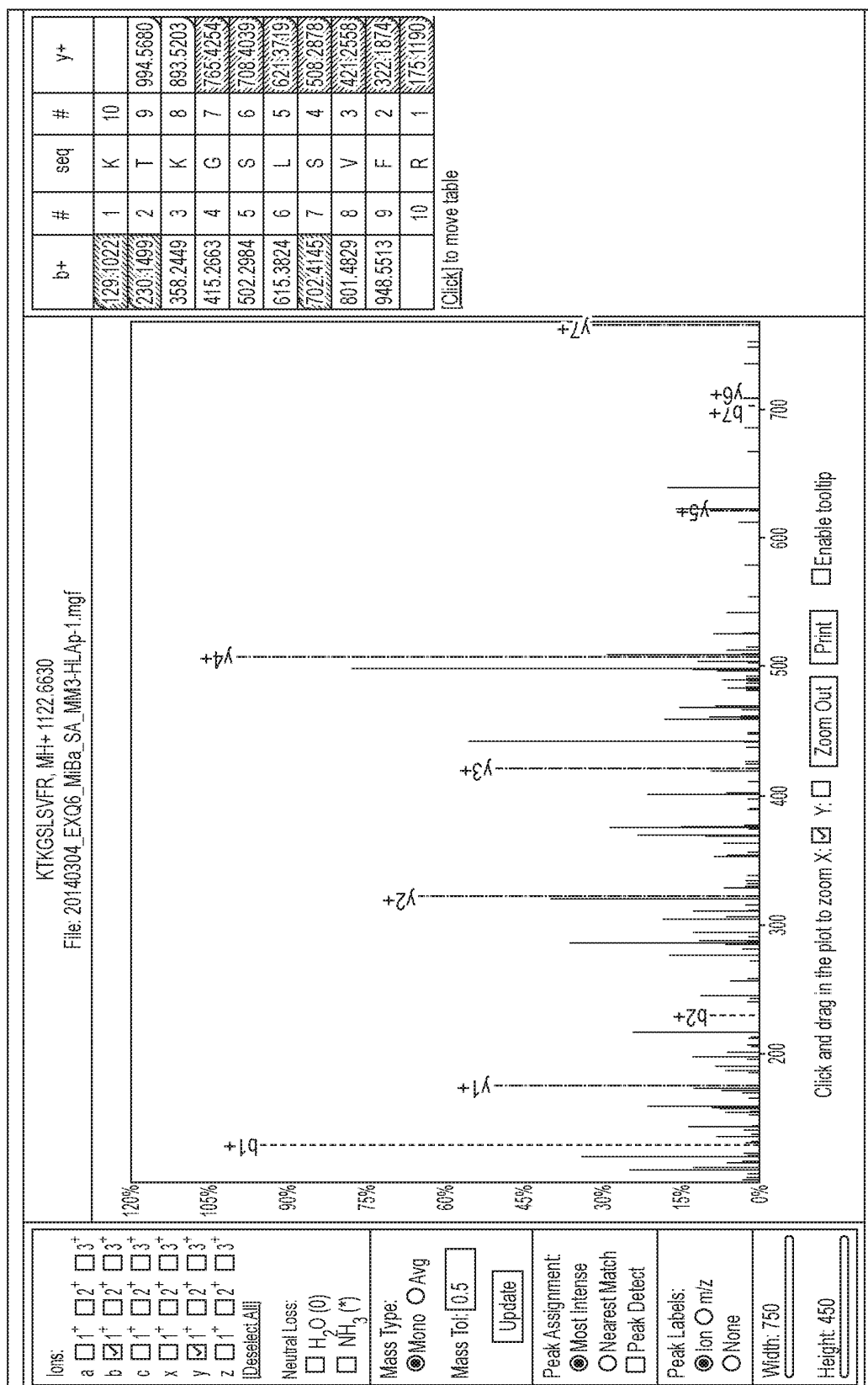
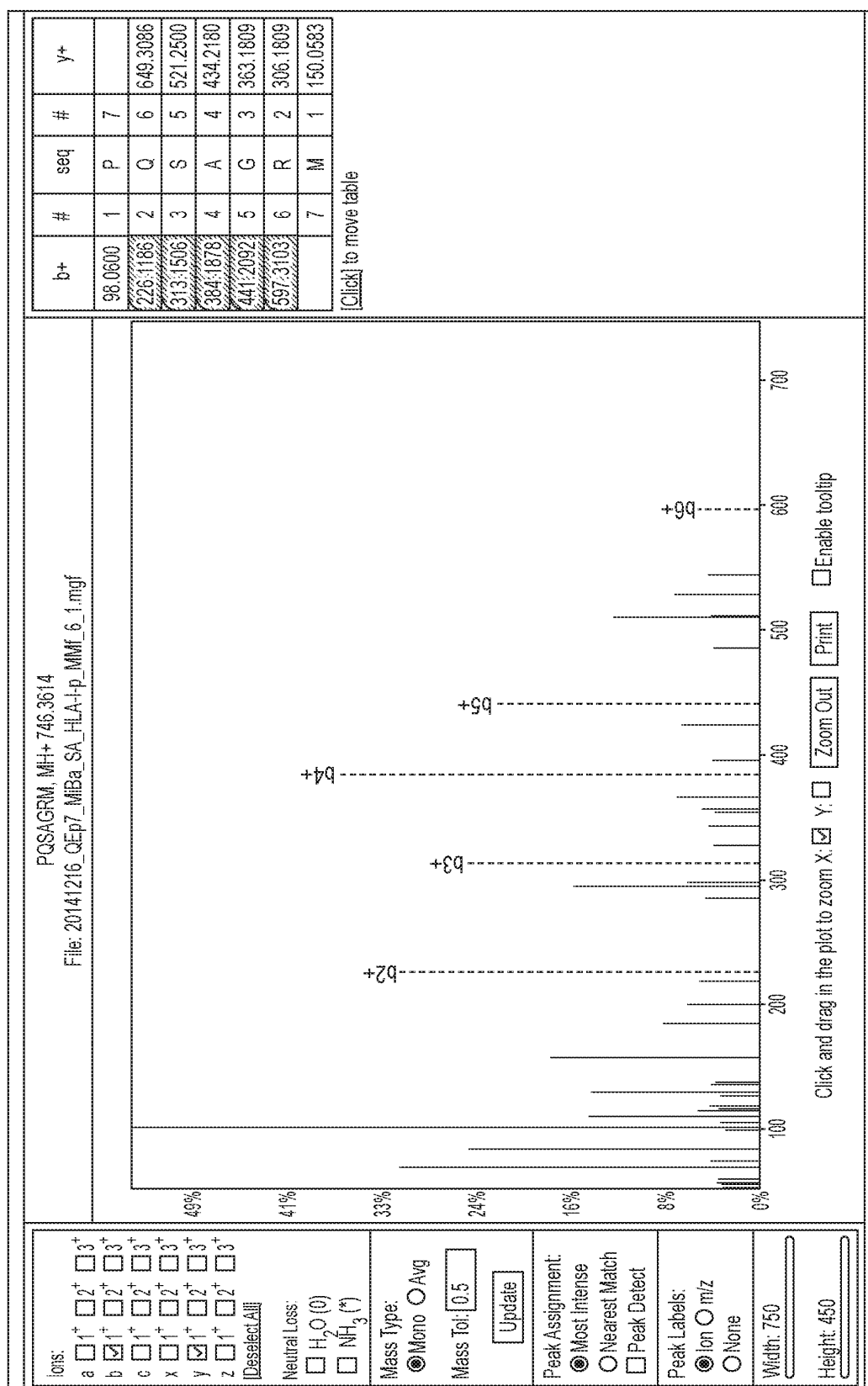
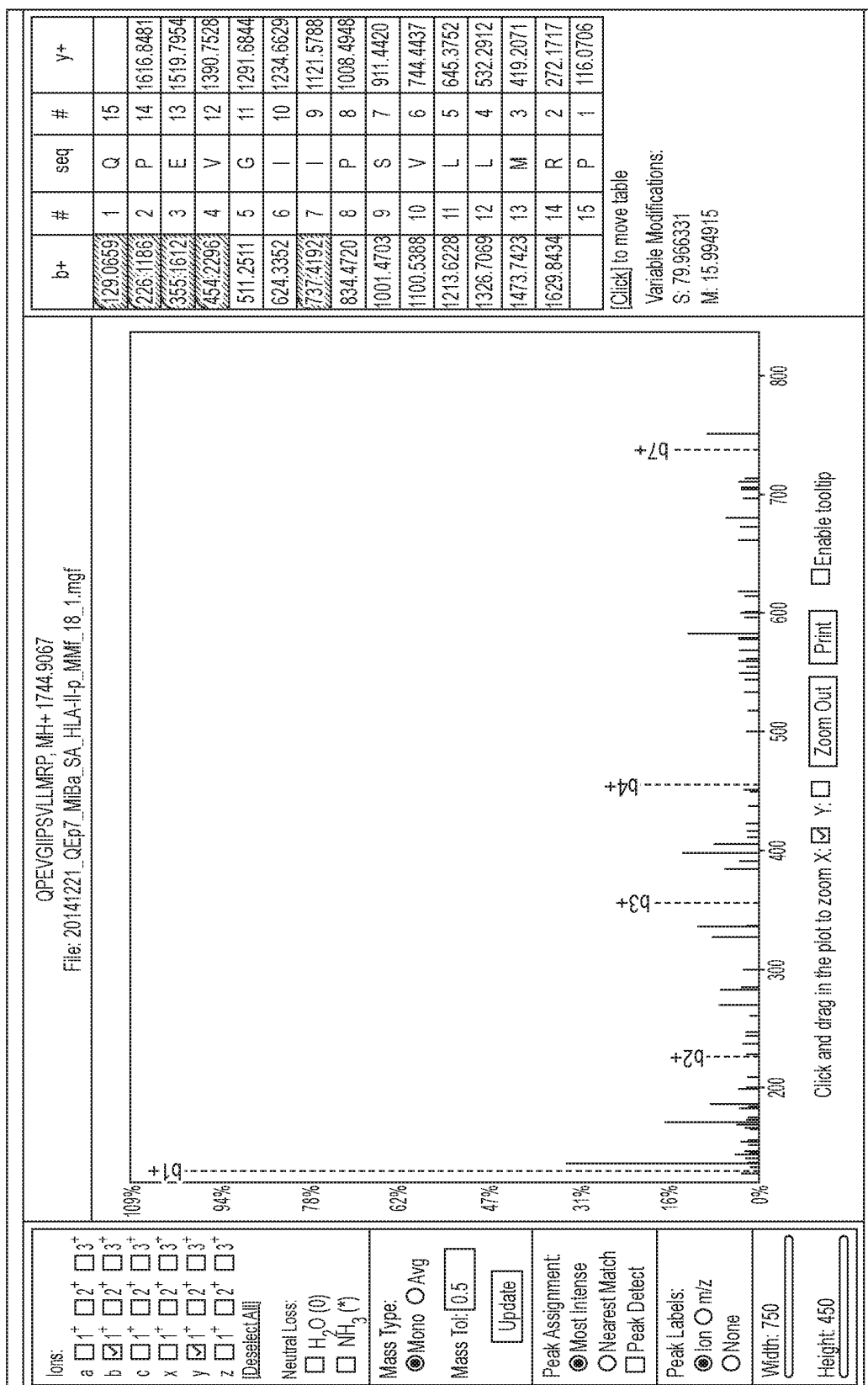


FIG. 21





24
F/G

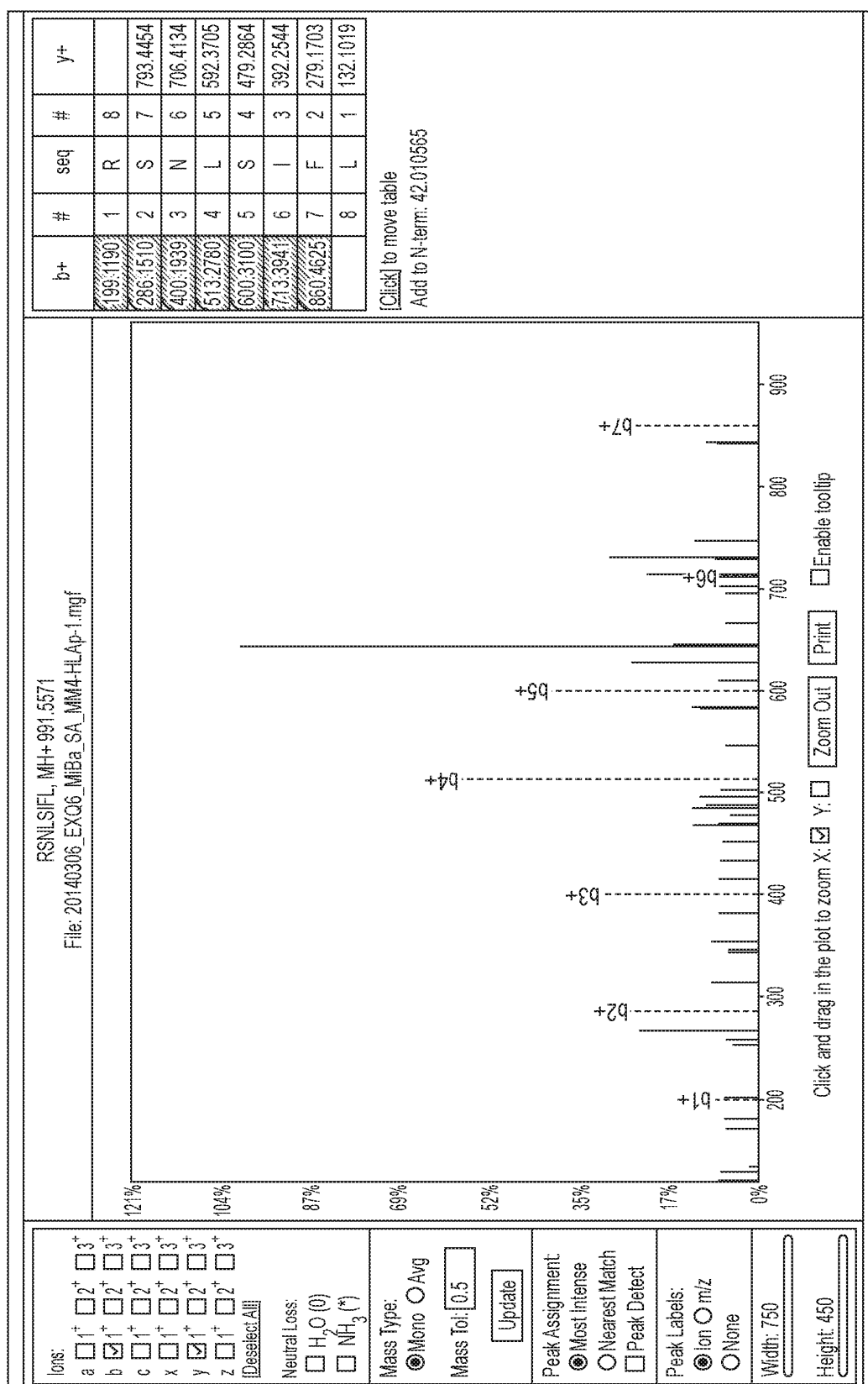
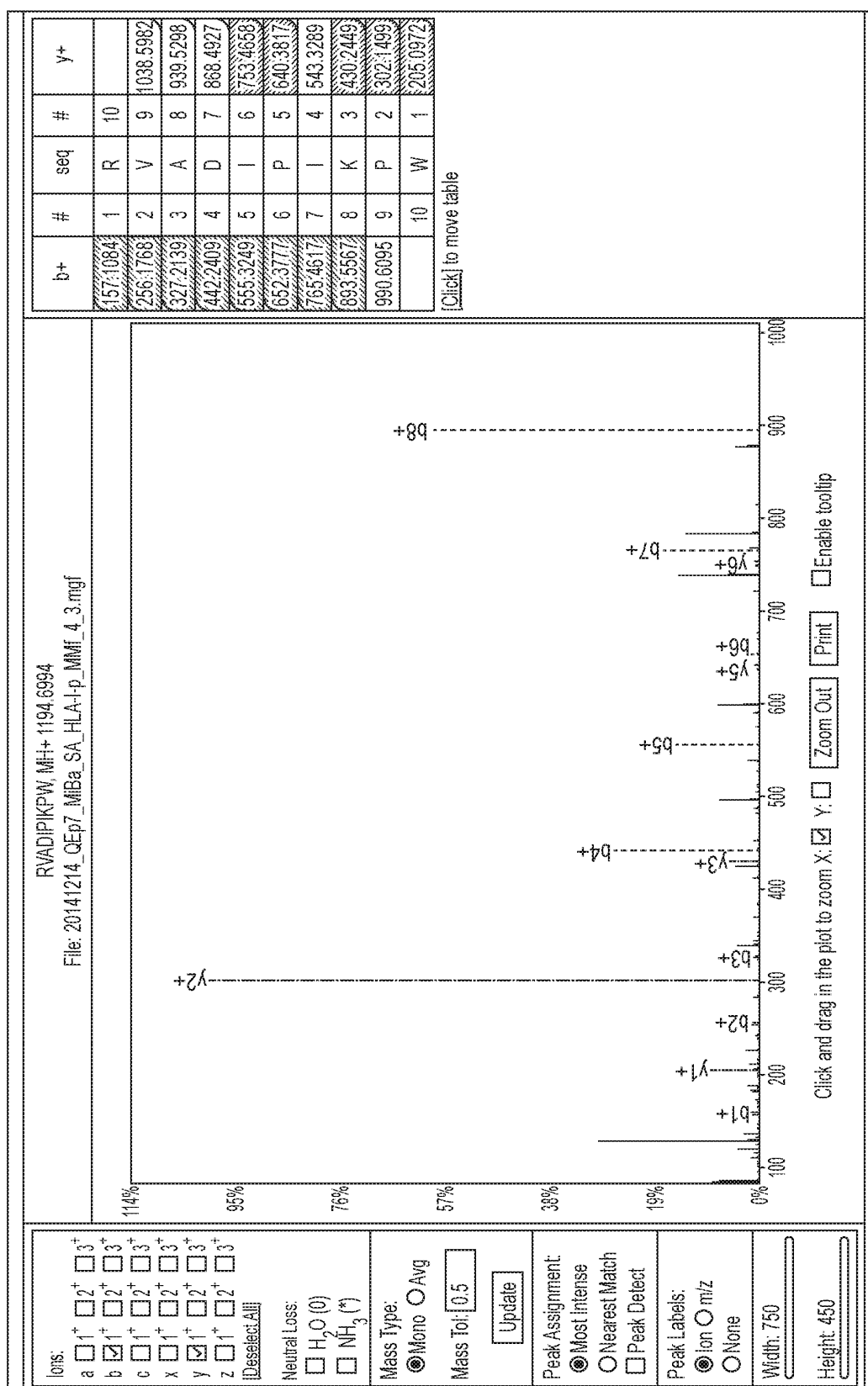
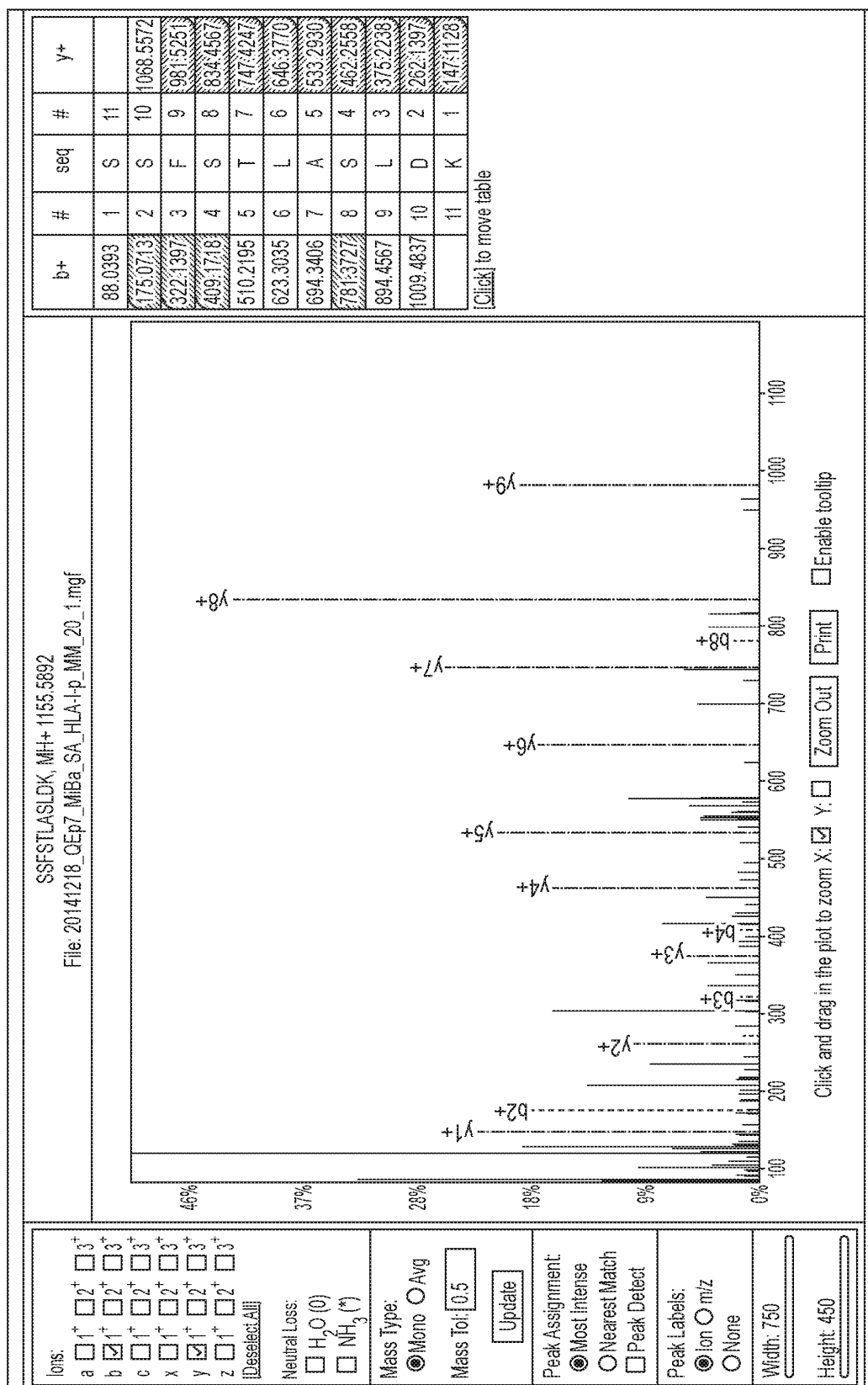
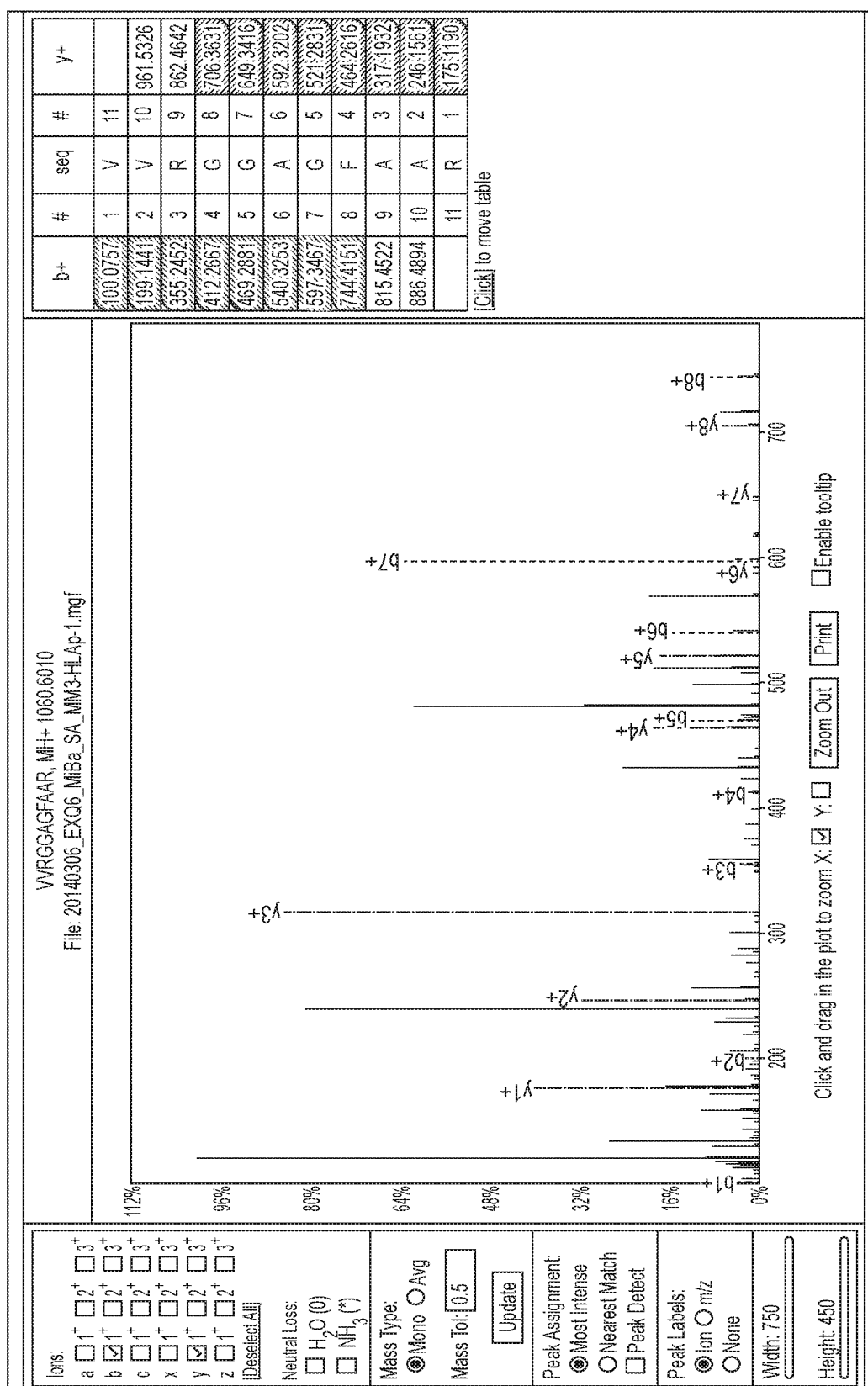


FIG. 25

26
E²⁶



28
F/G

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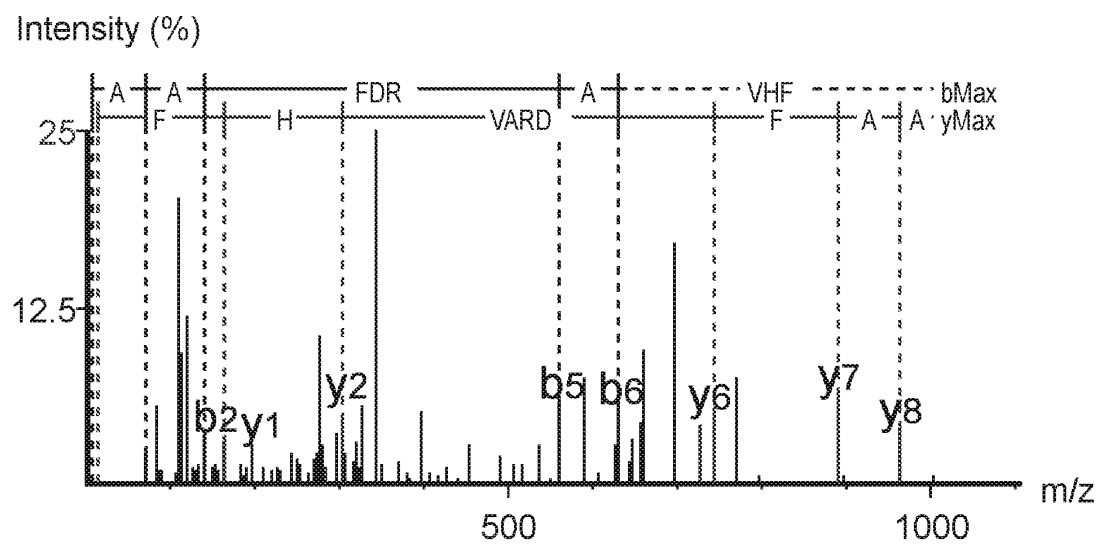
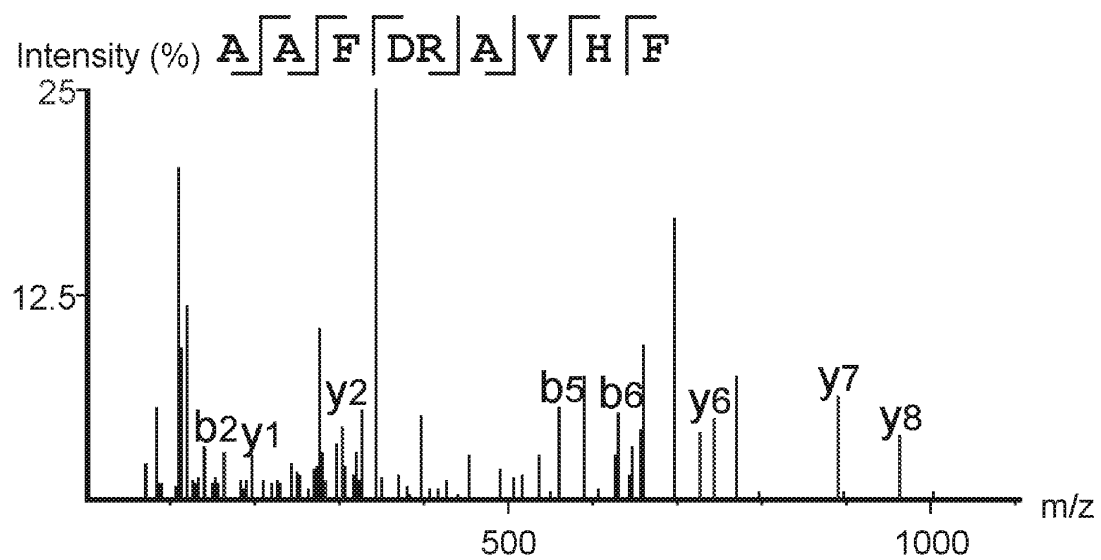


FIG. 29

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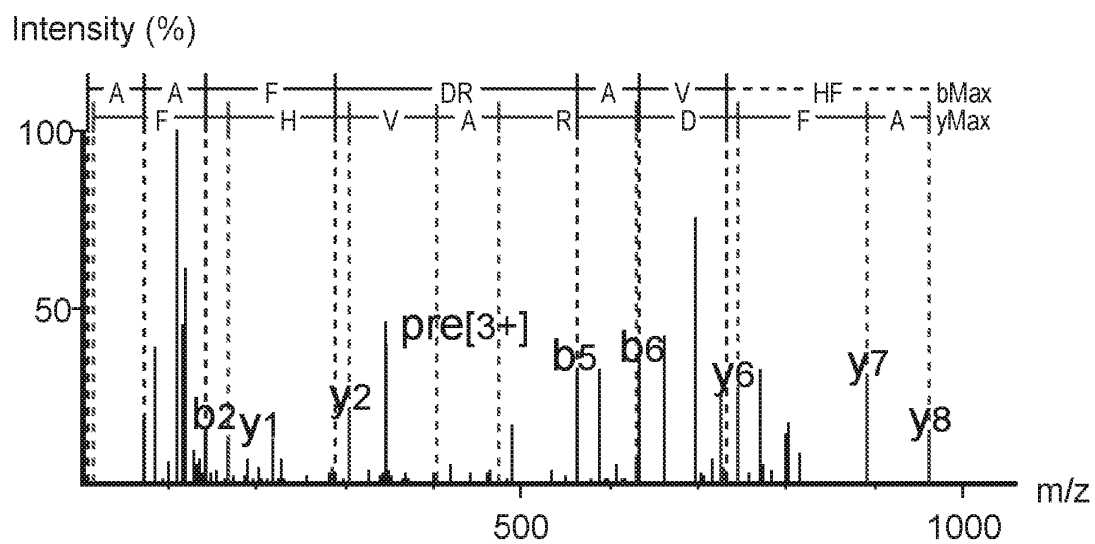
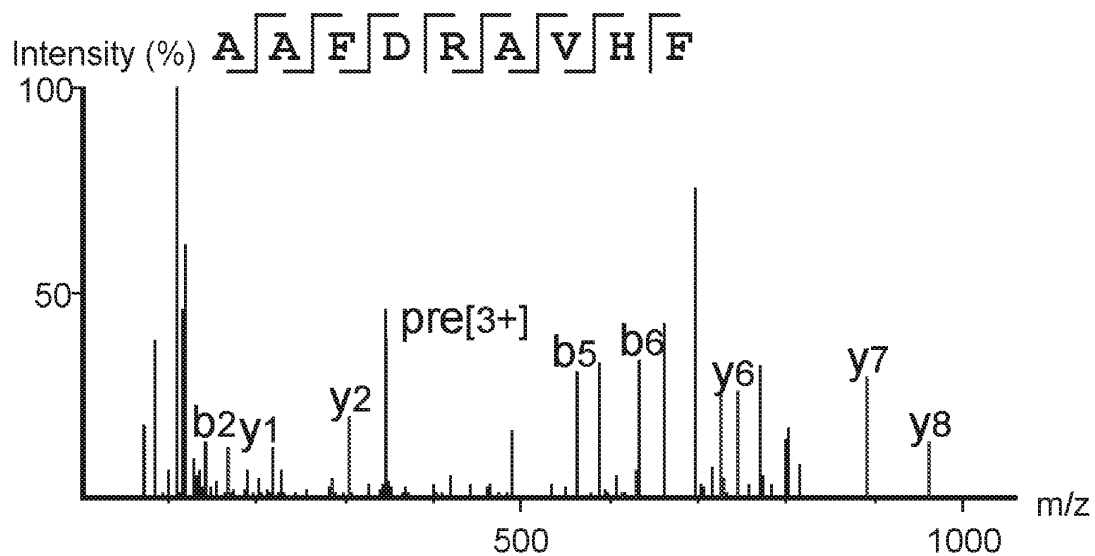


FIG. 30

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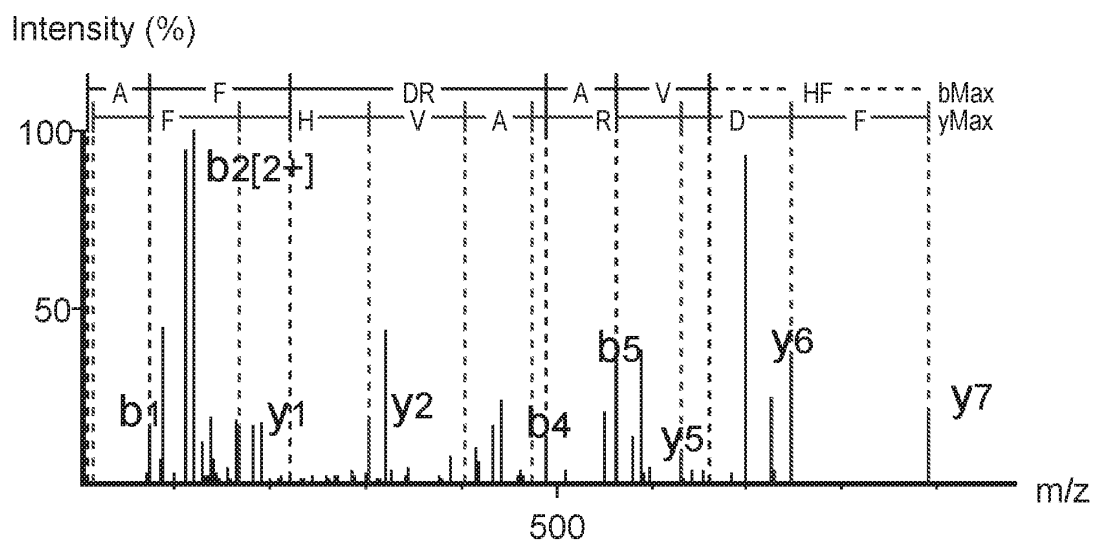
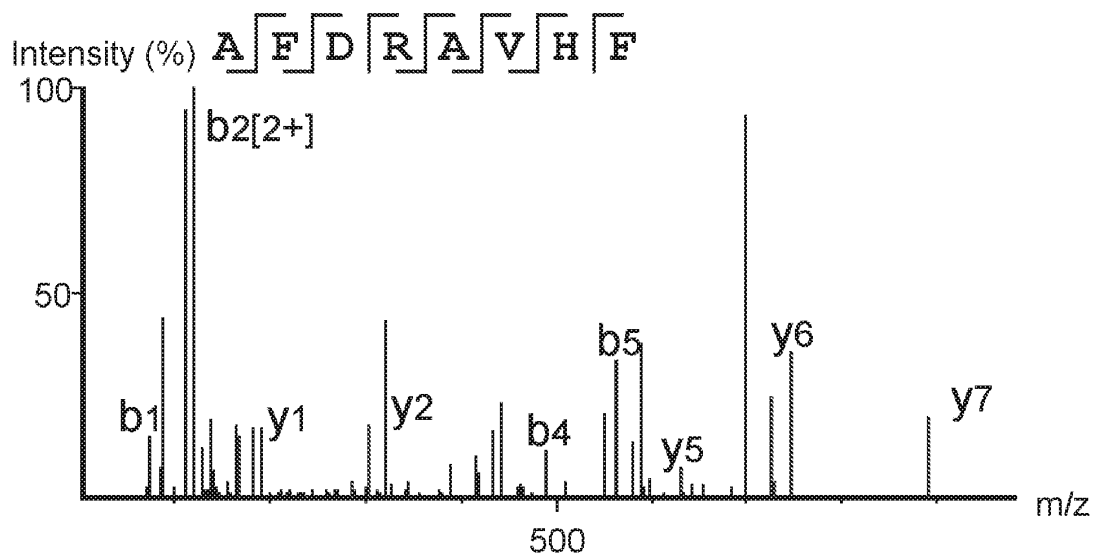


FIG. 31

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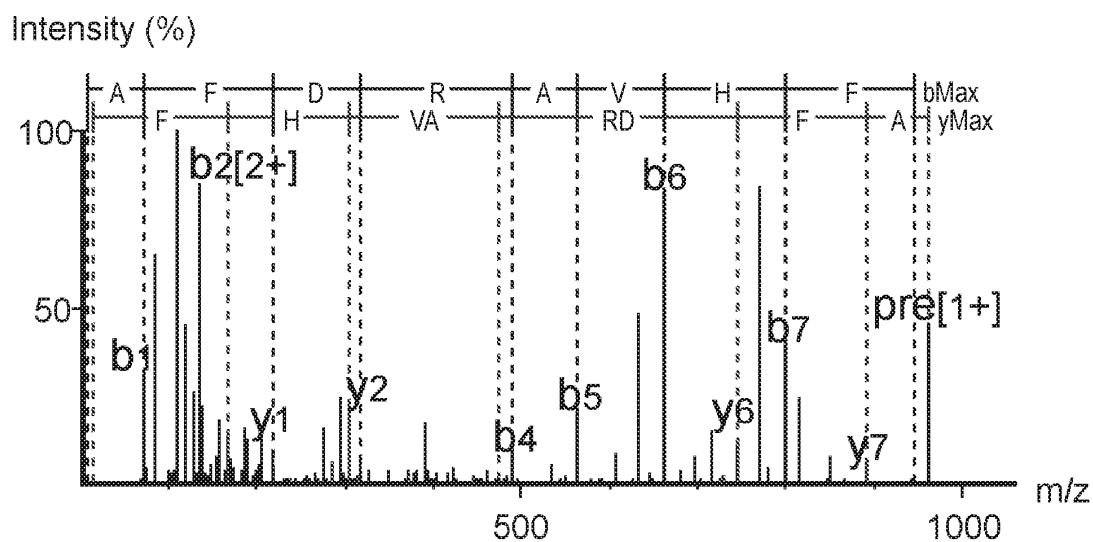
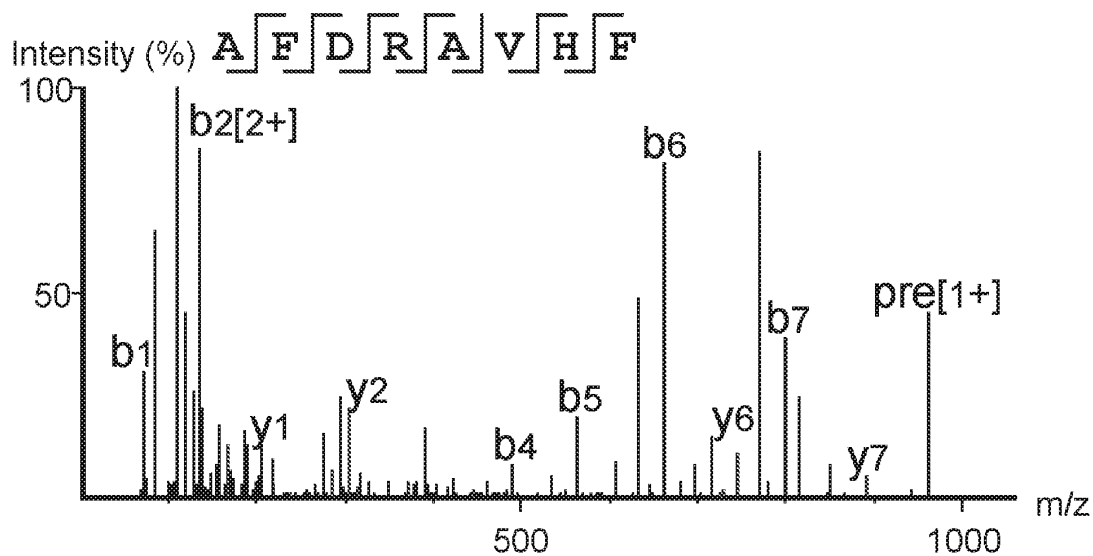


FIG. 32

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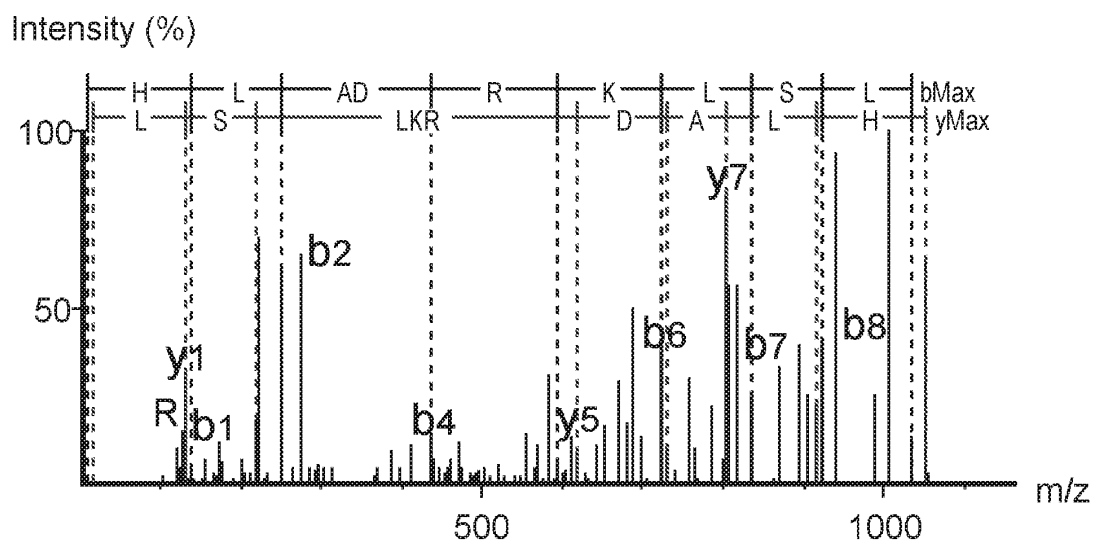
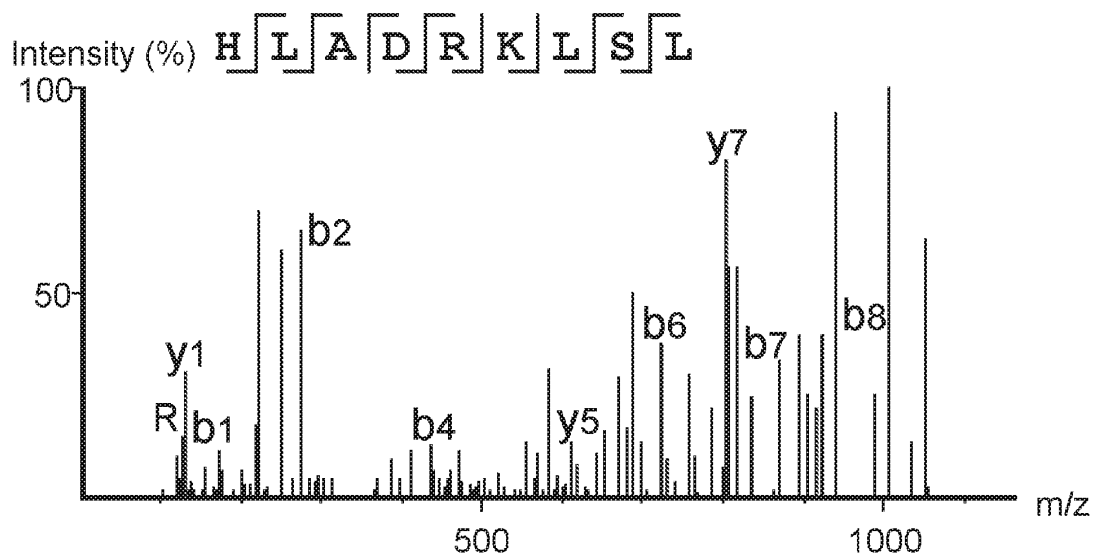


FIG. 33

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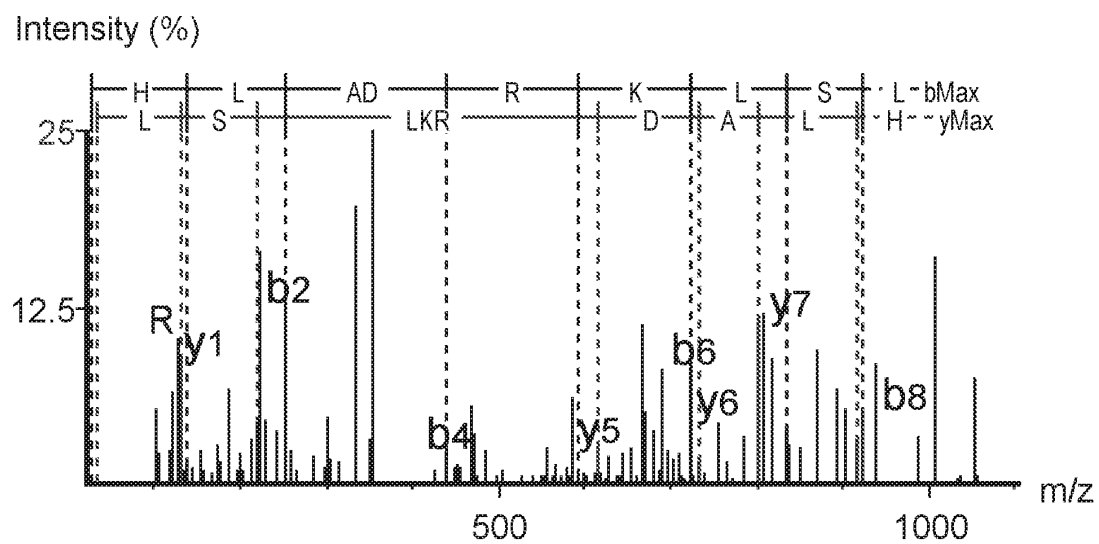
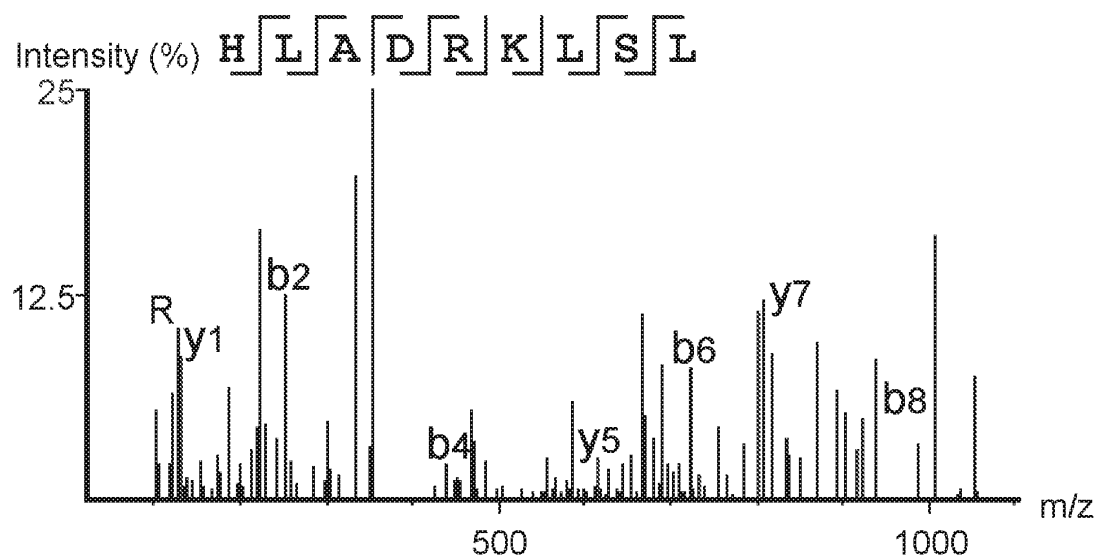


FIG. 34

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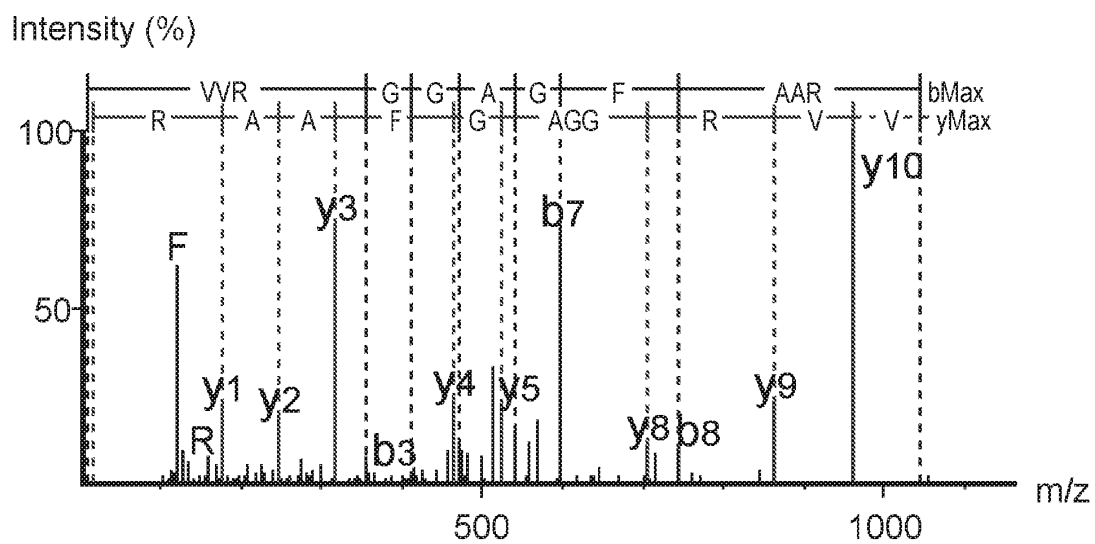
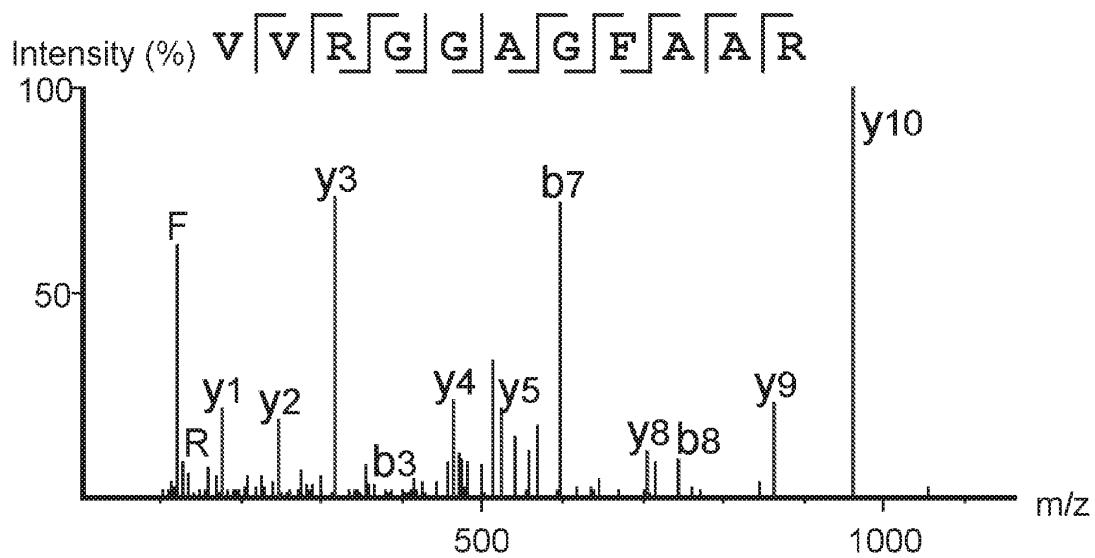


FIG. 35

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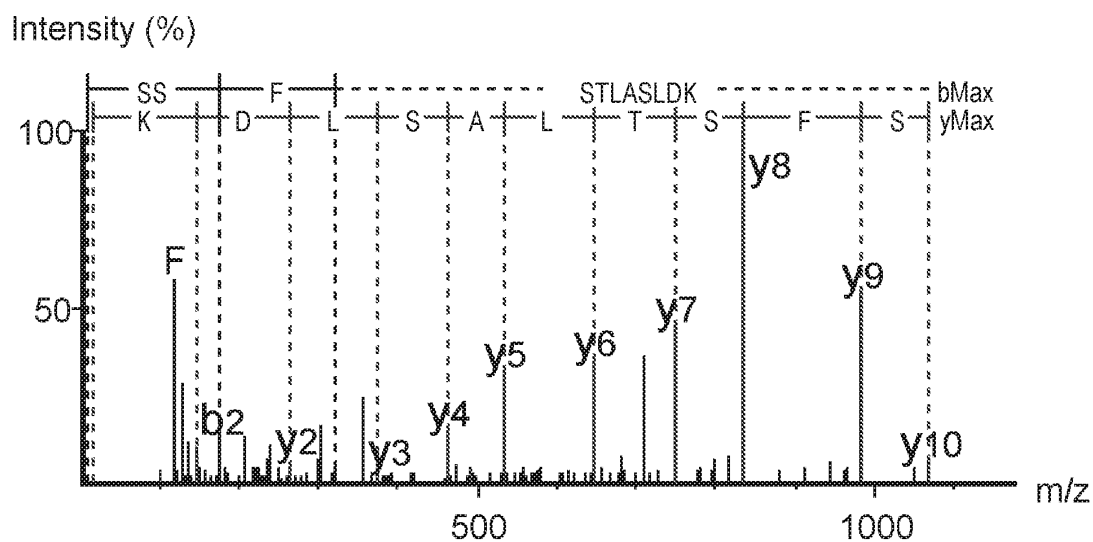
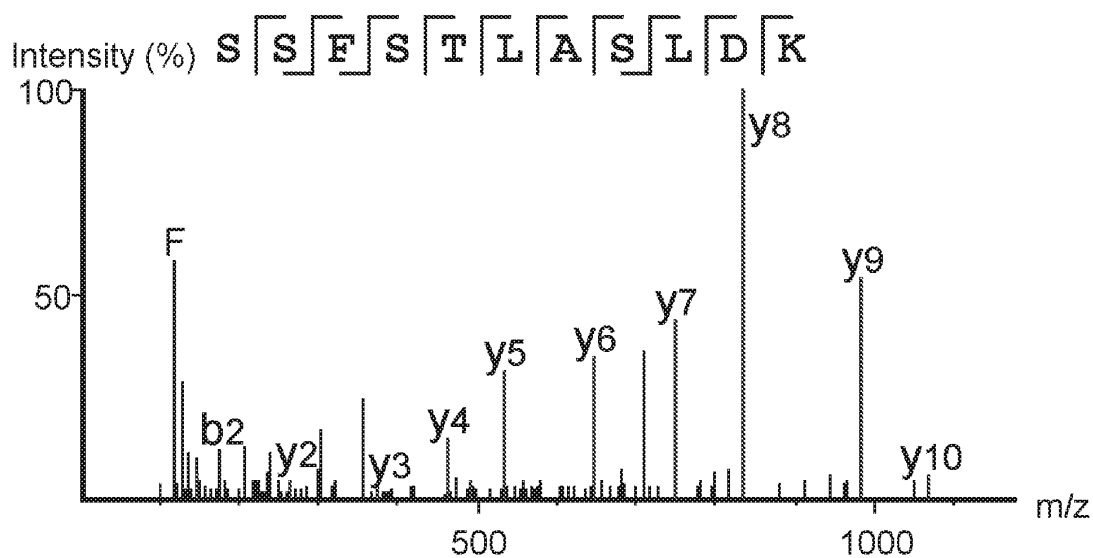


FIG. 36

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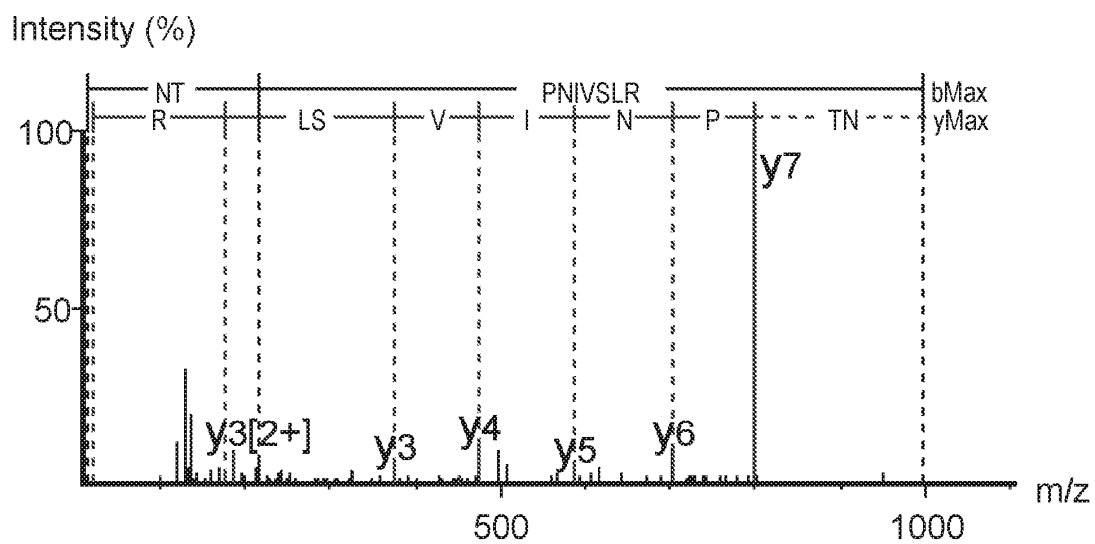
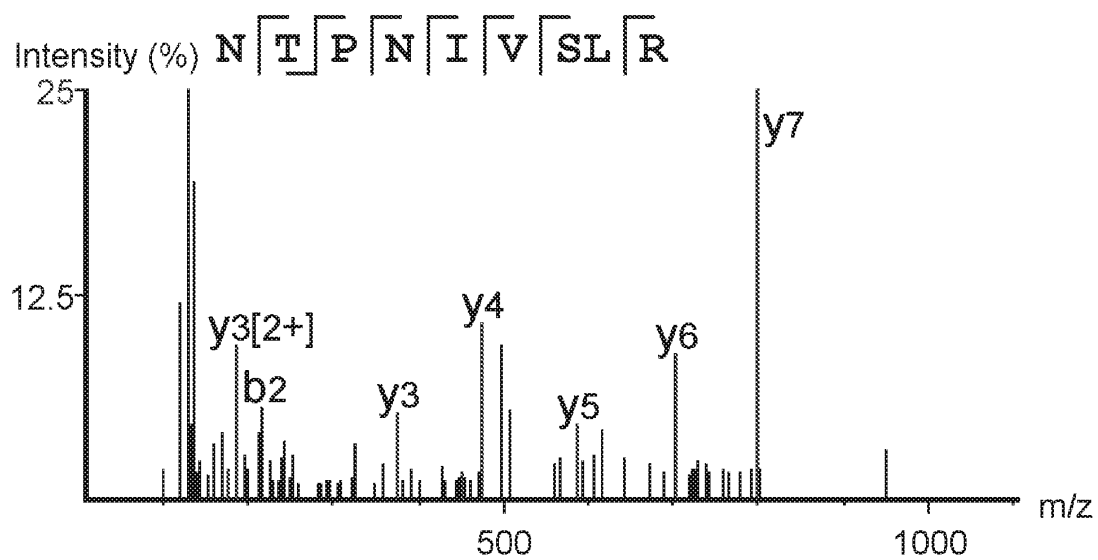


FIG. 37

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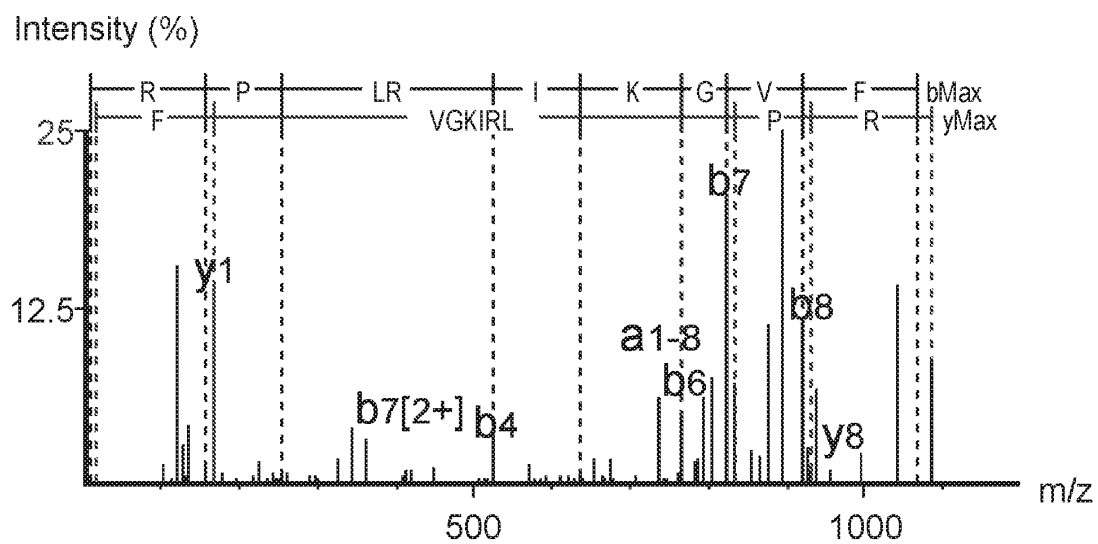
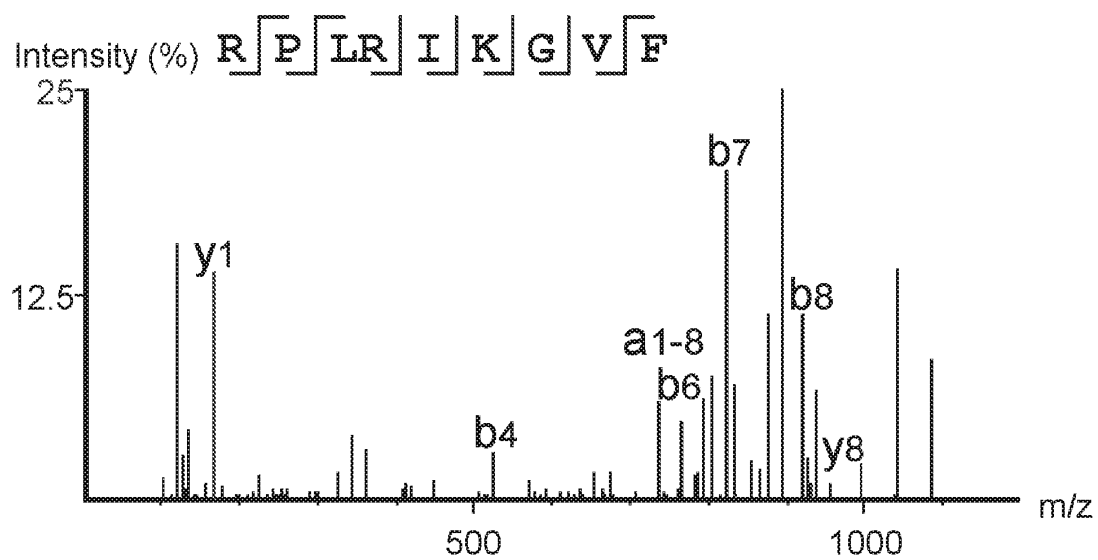


FIG. 38

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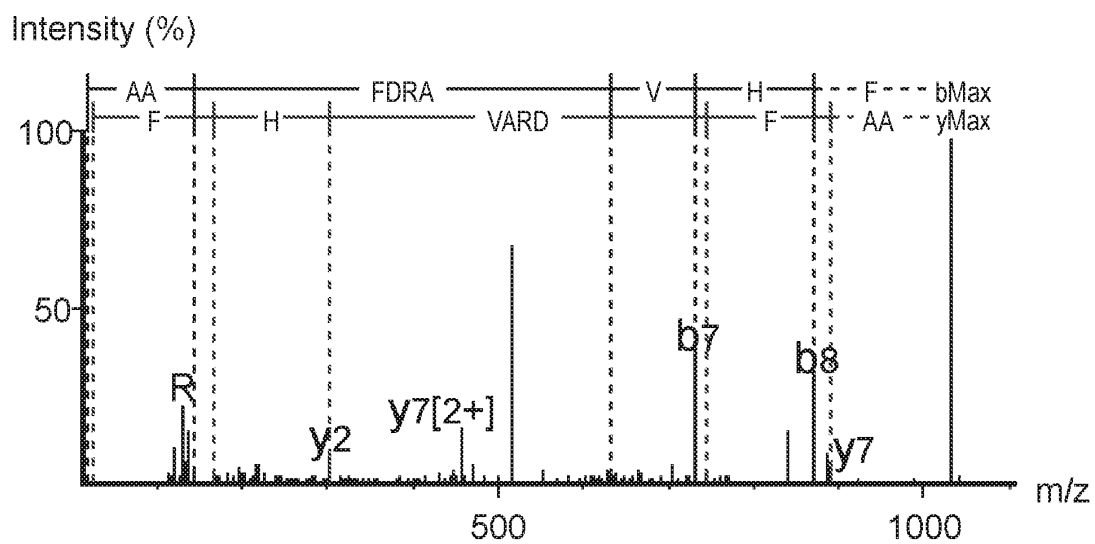
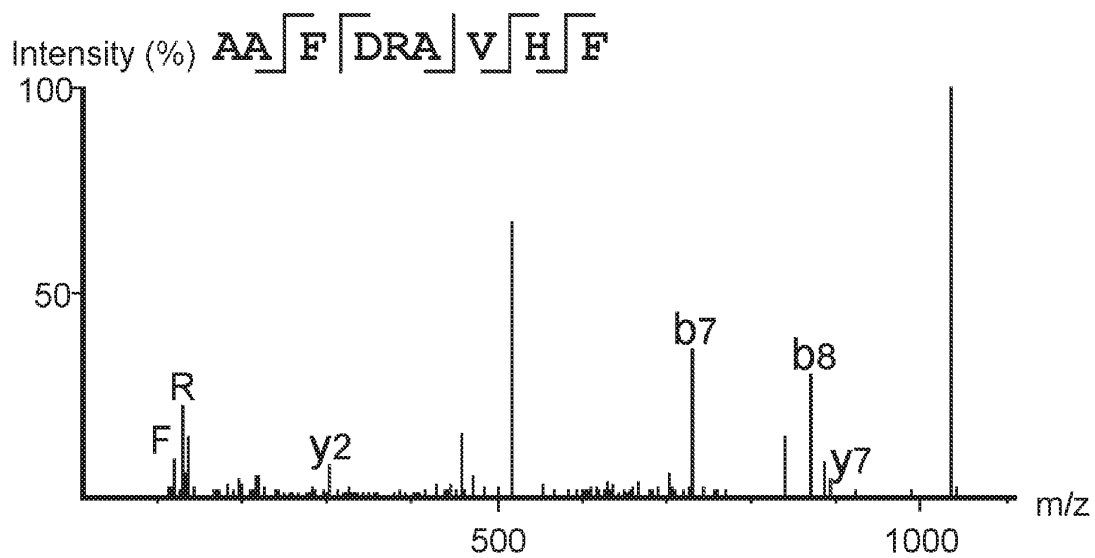


FIG. 39

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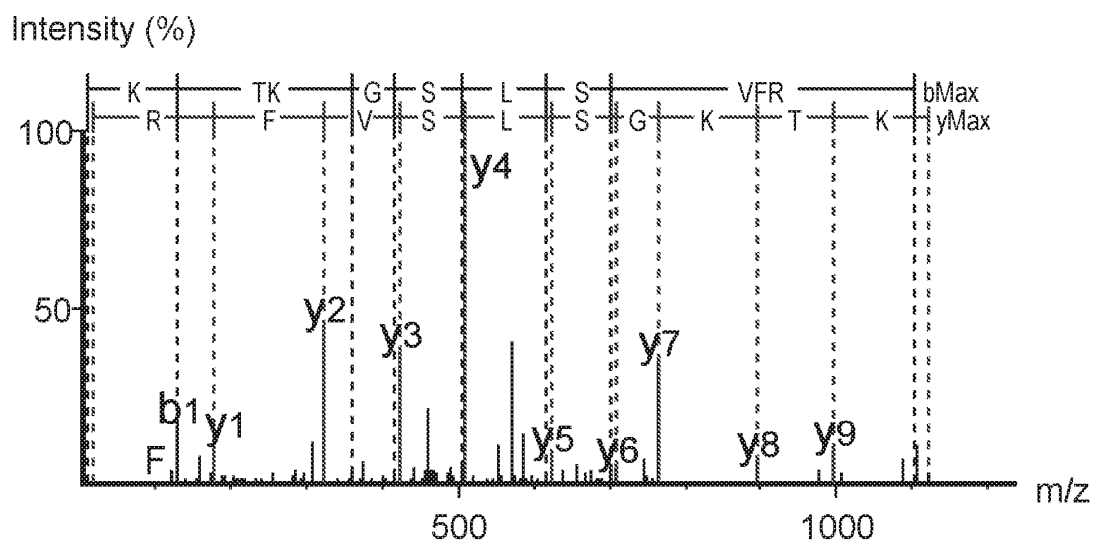
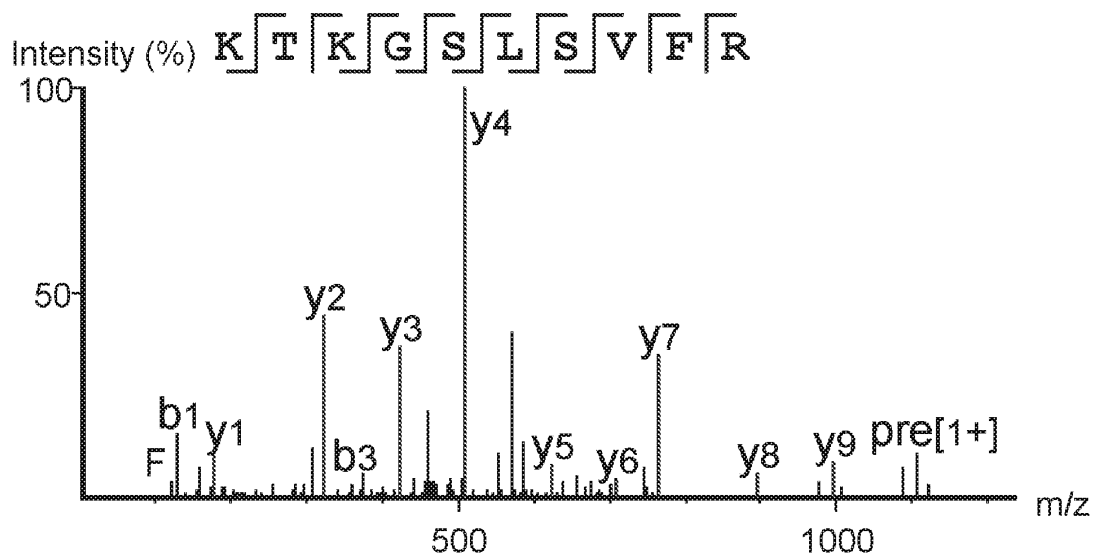


FIG. 40

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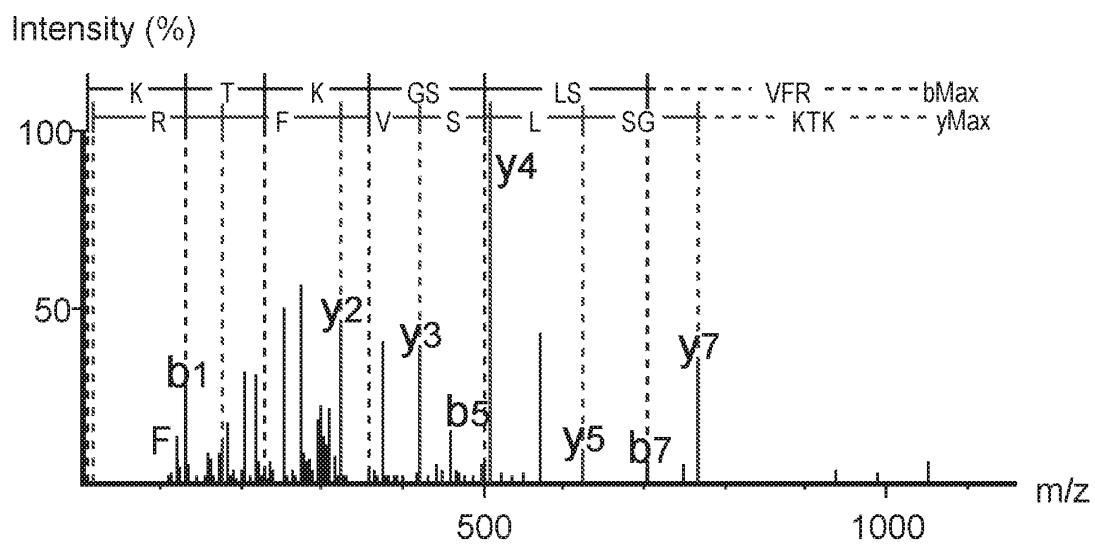
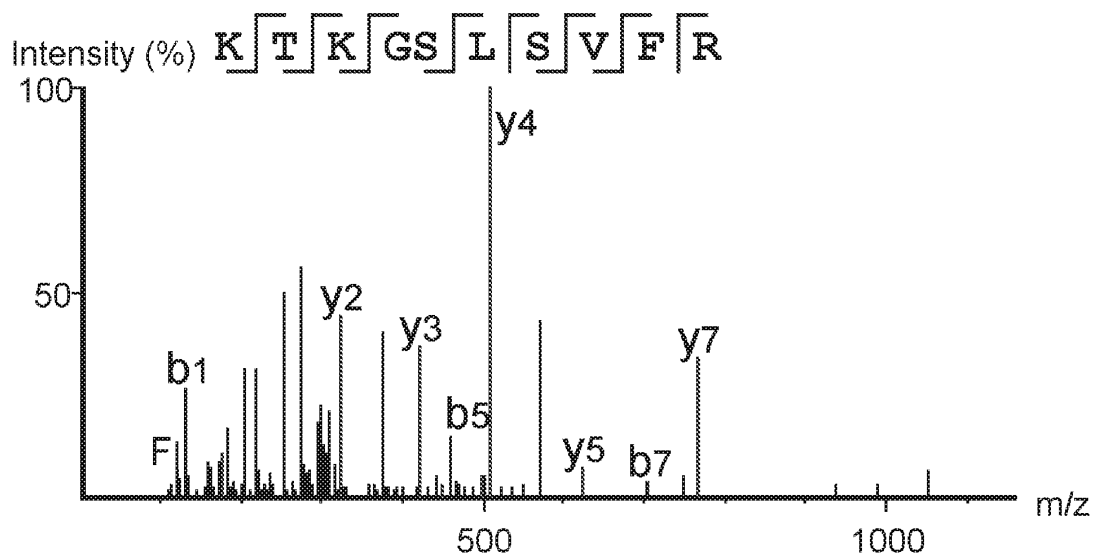


FIG. 41

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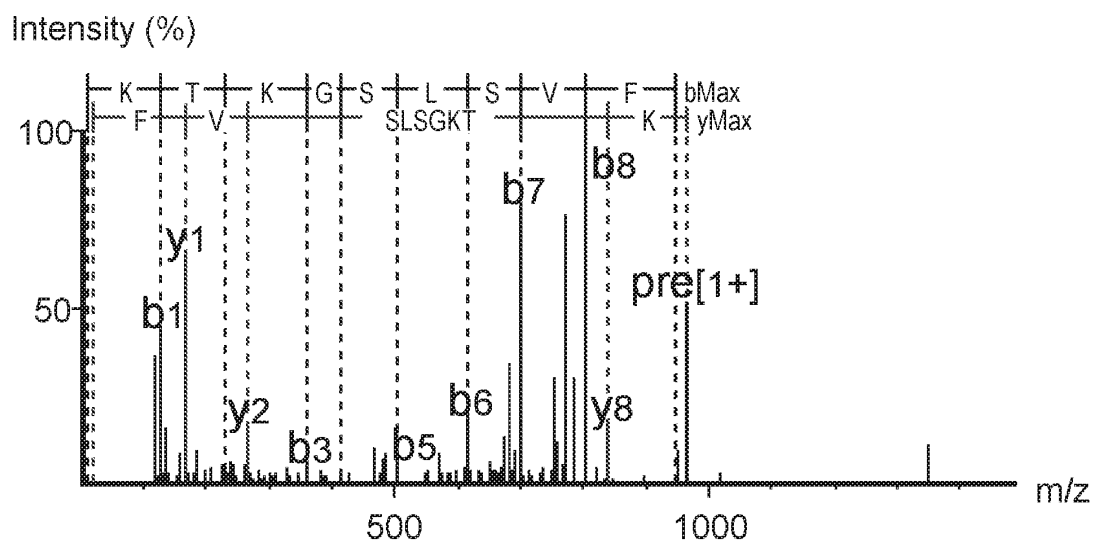
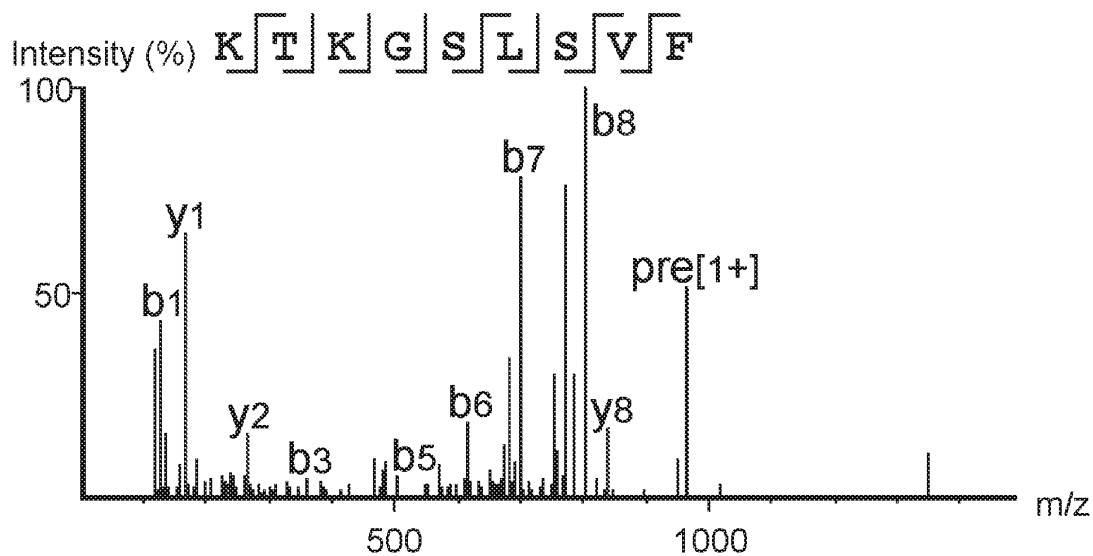


FIG. 42

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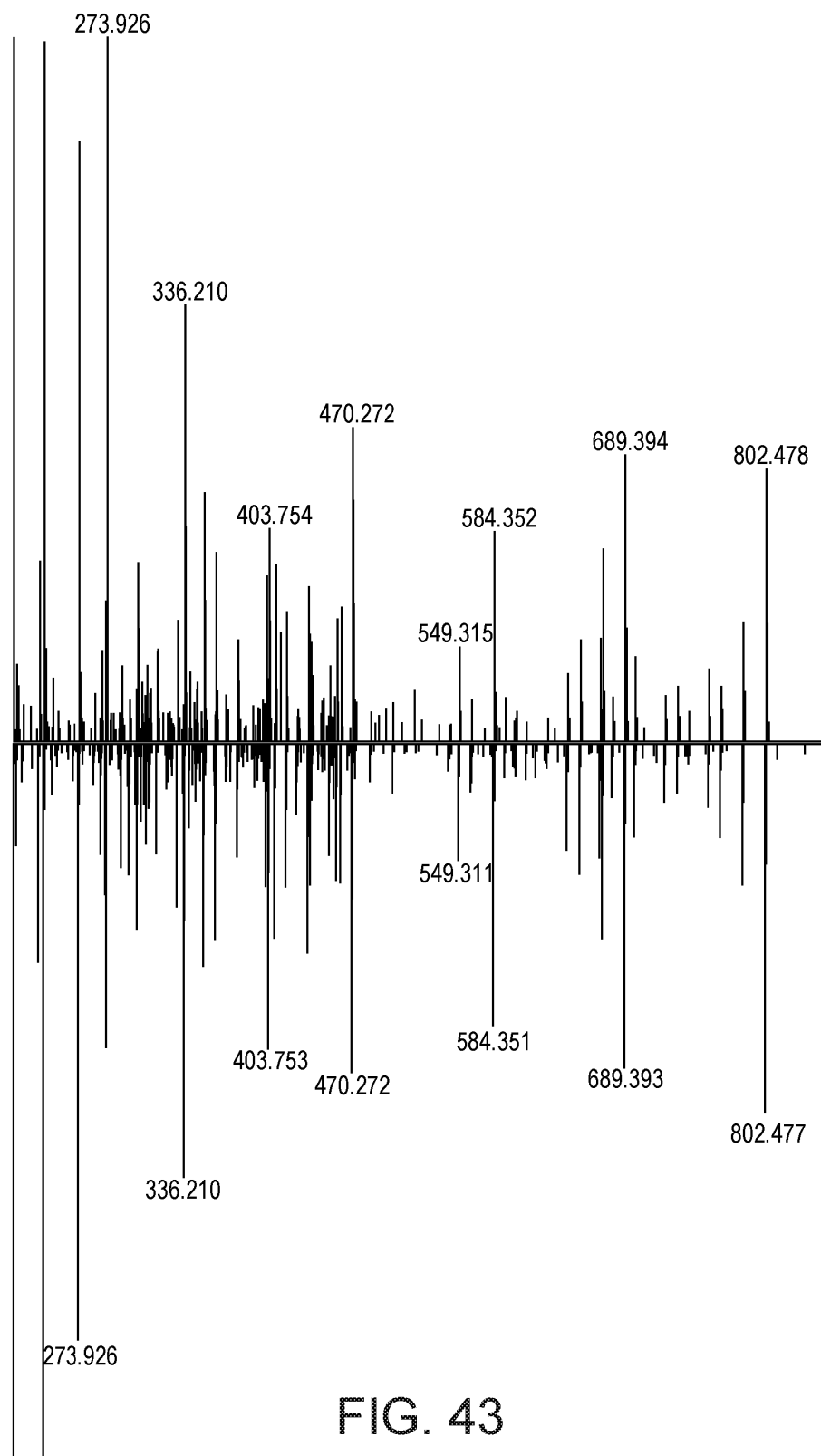
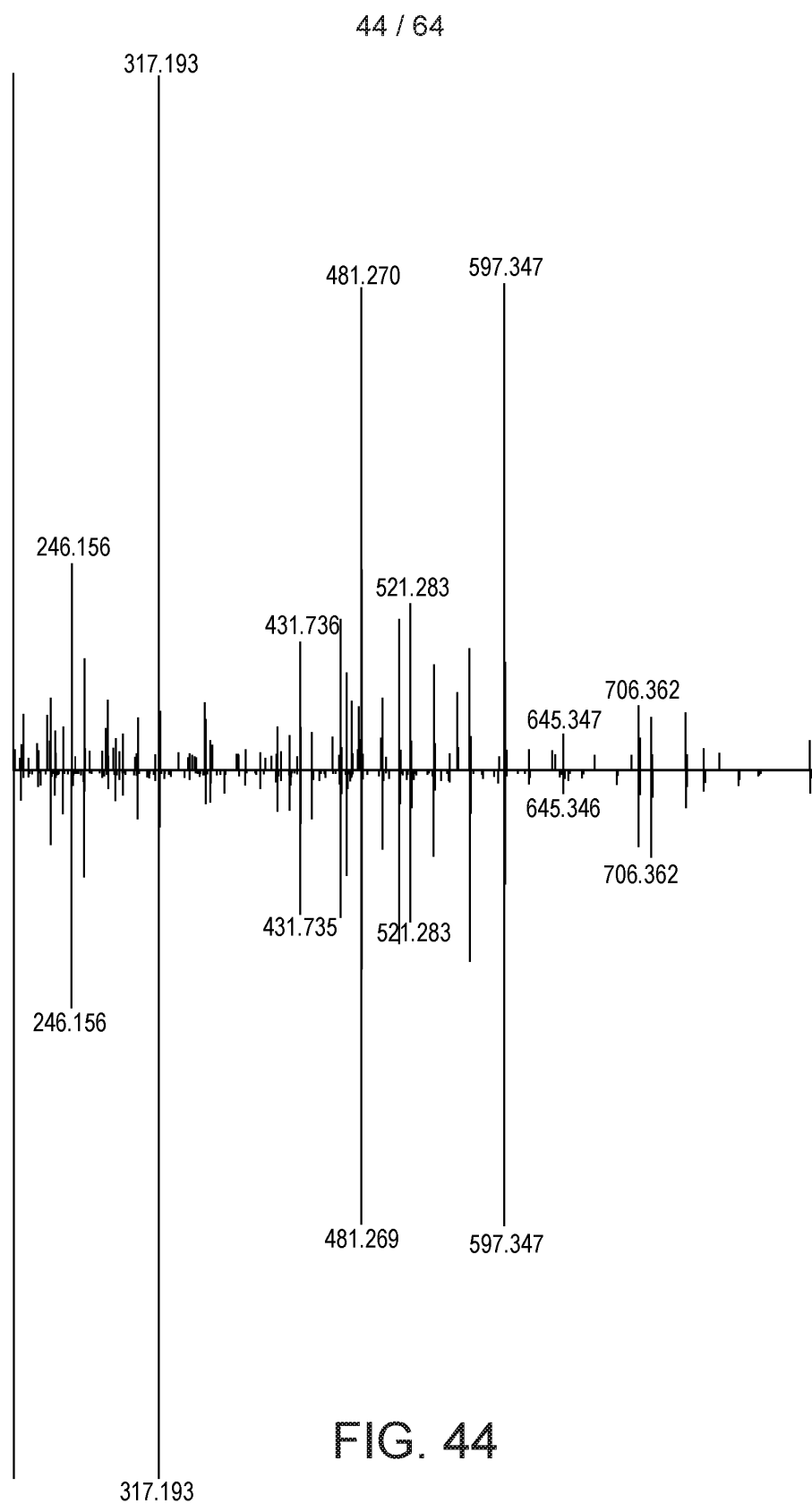
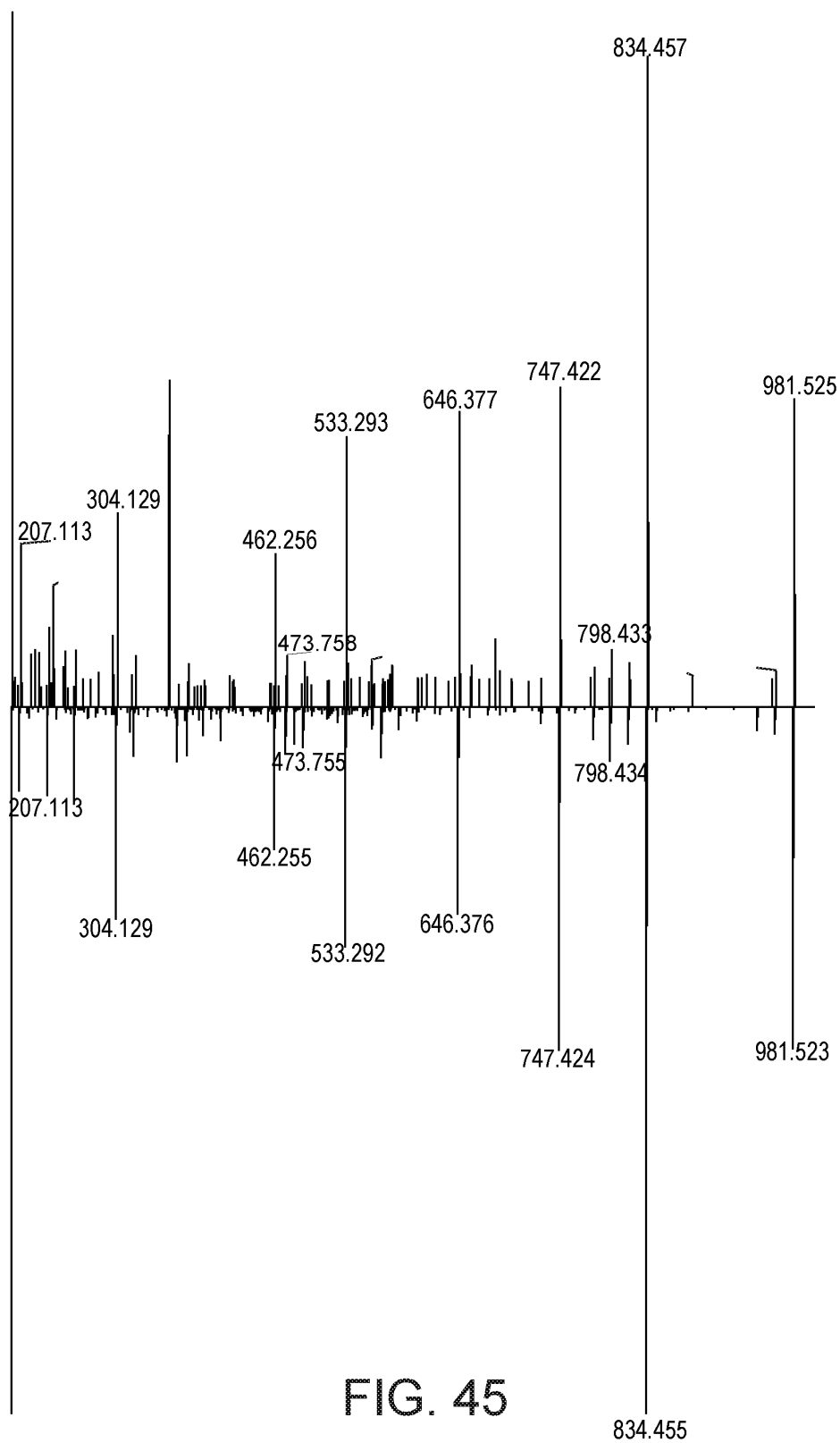


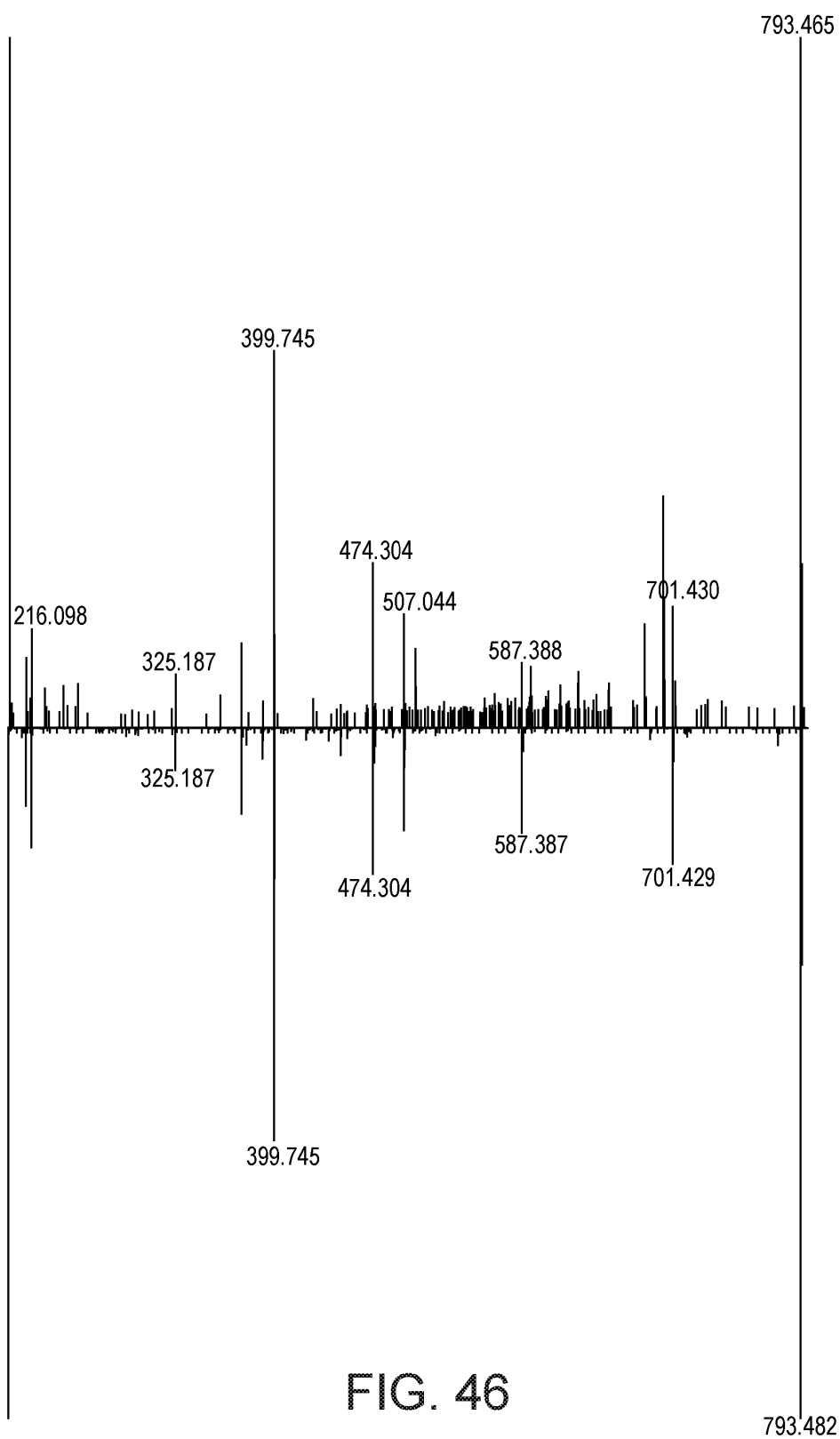
FIG. 43

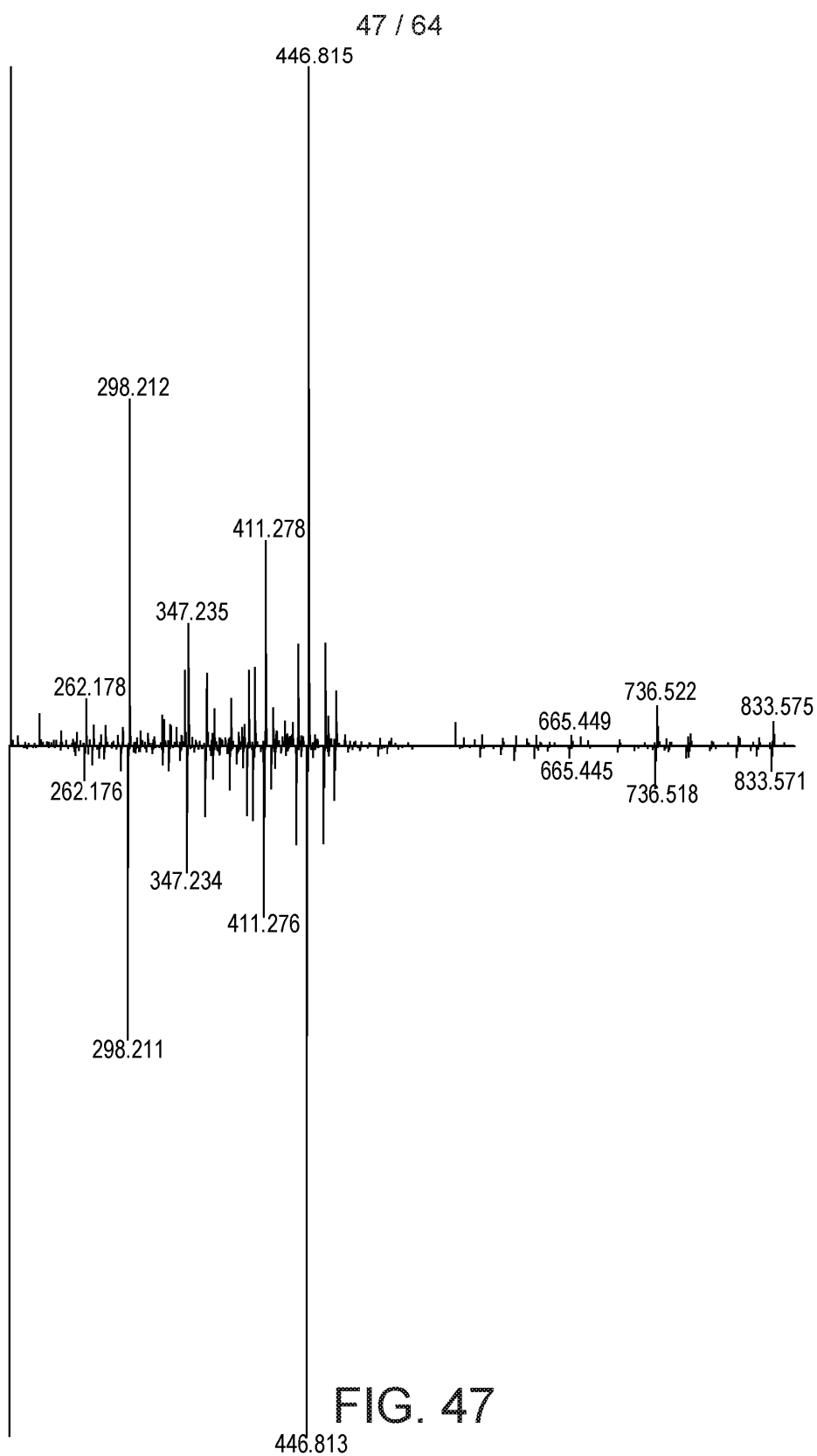


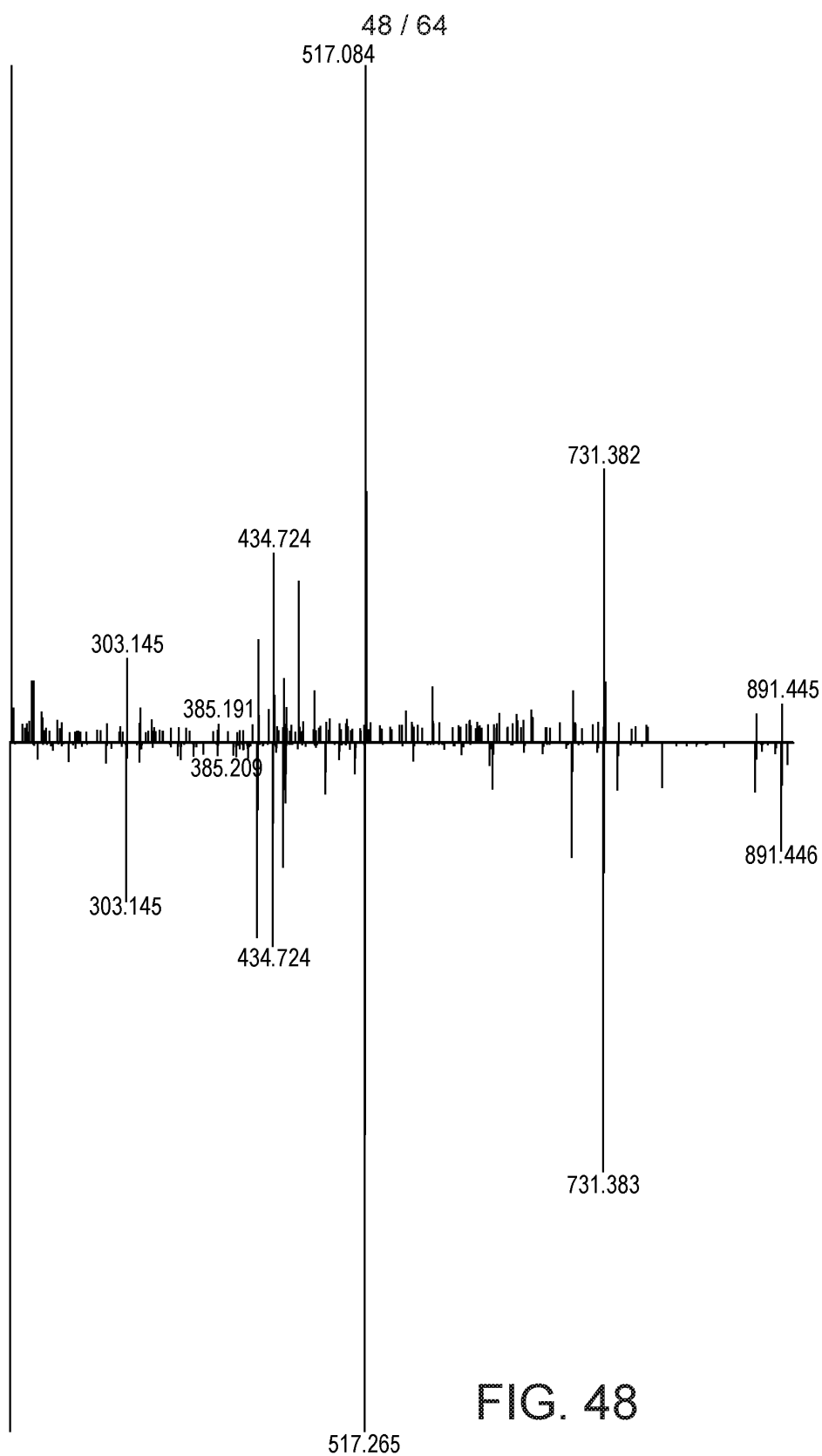
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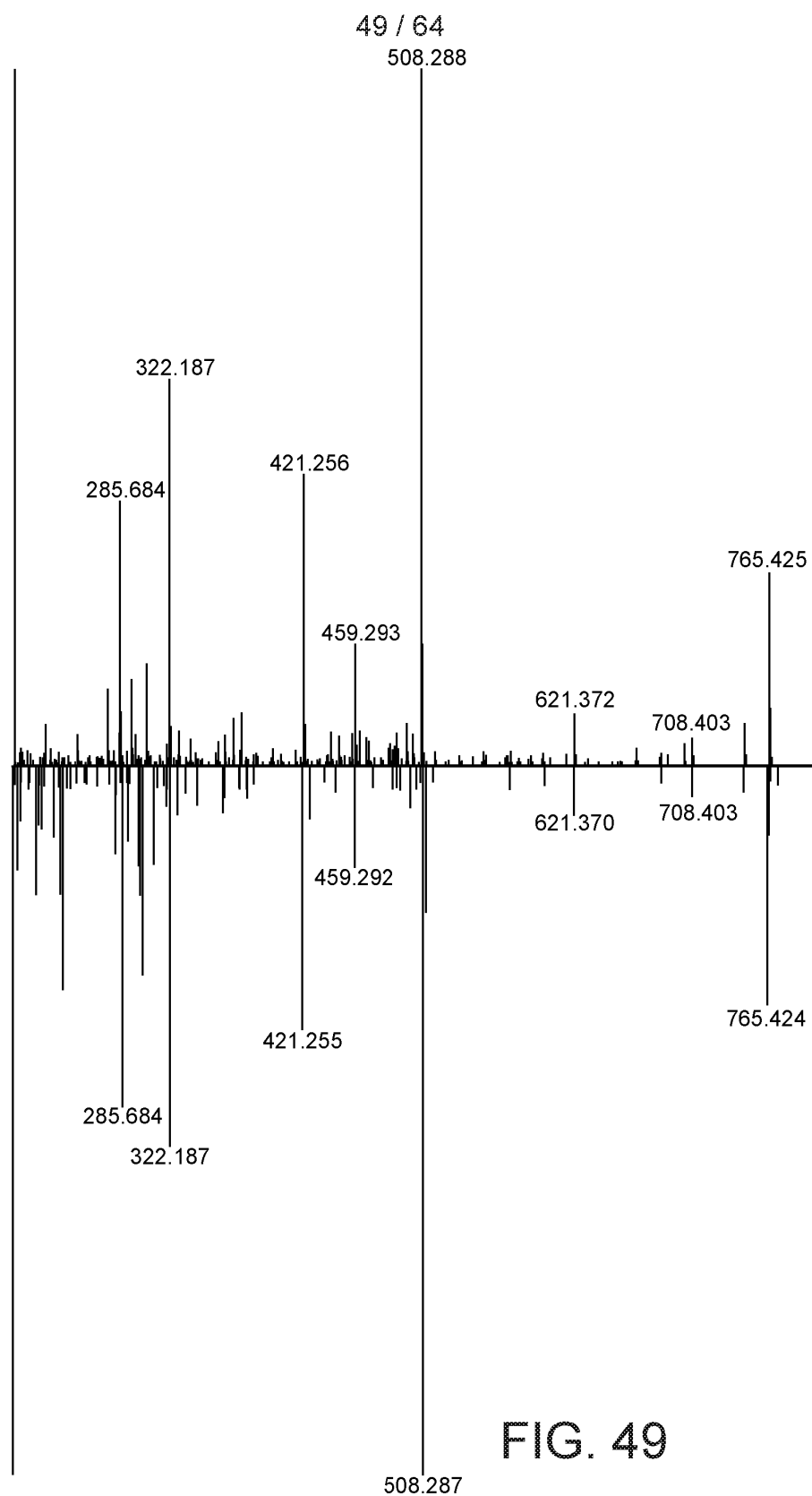


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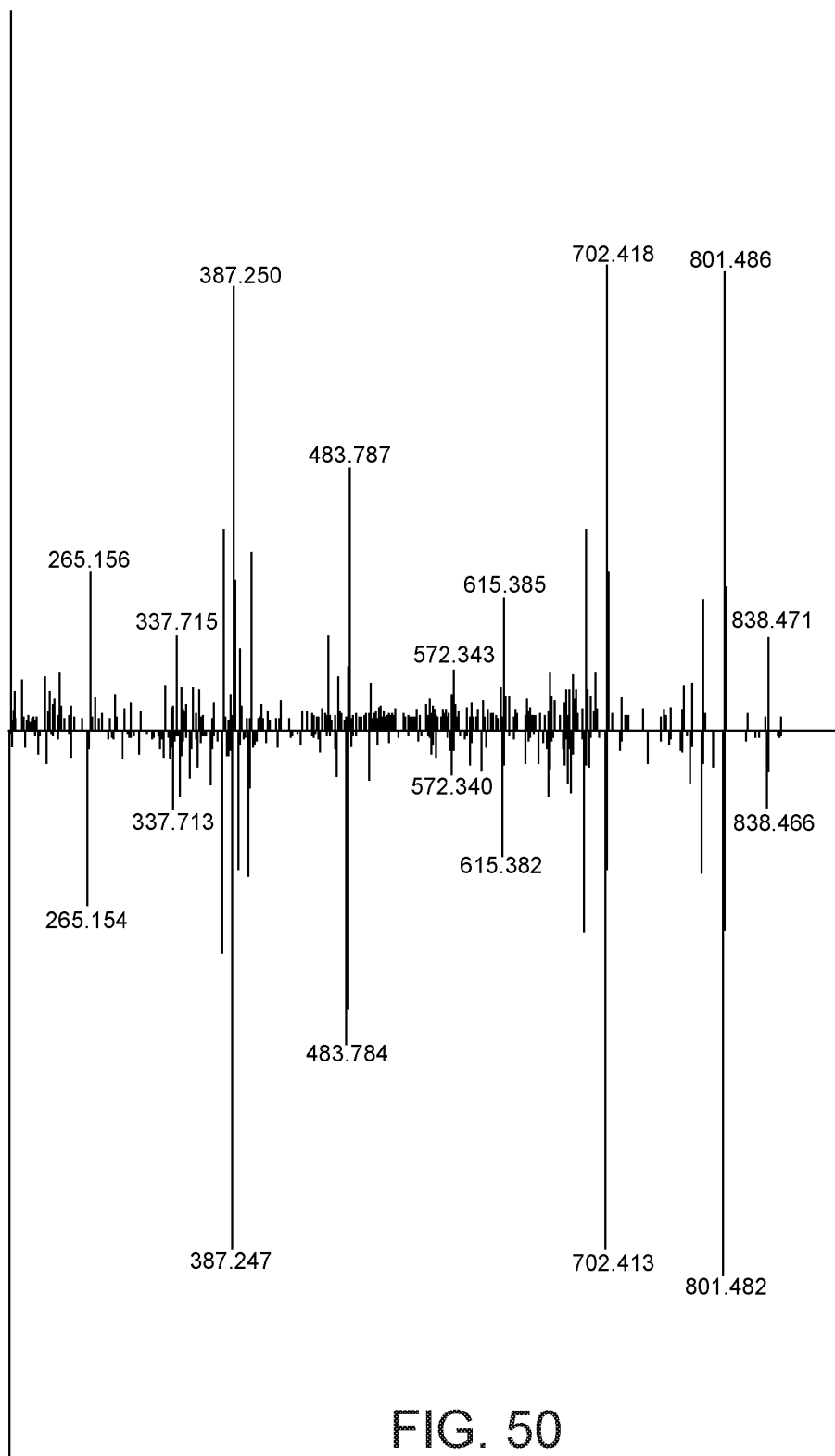


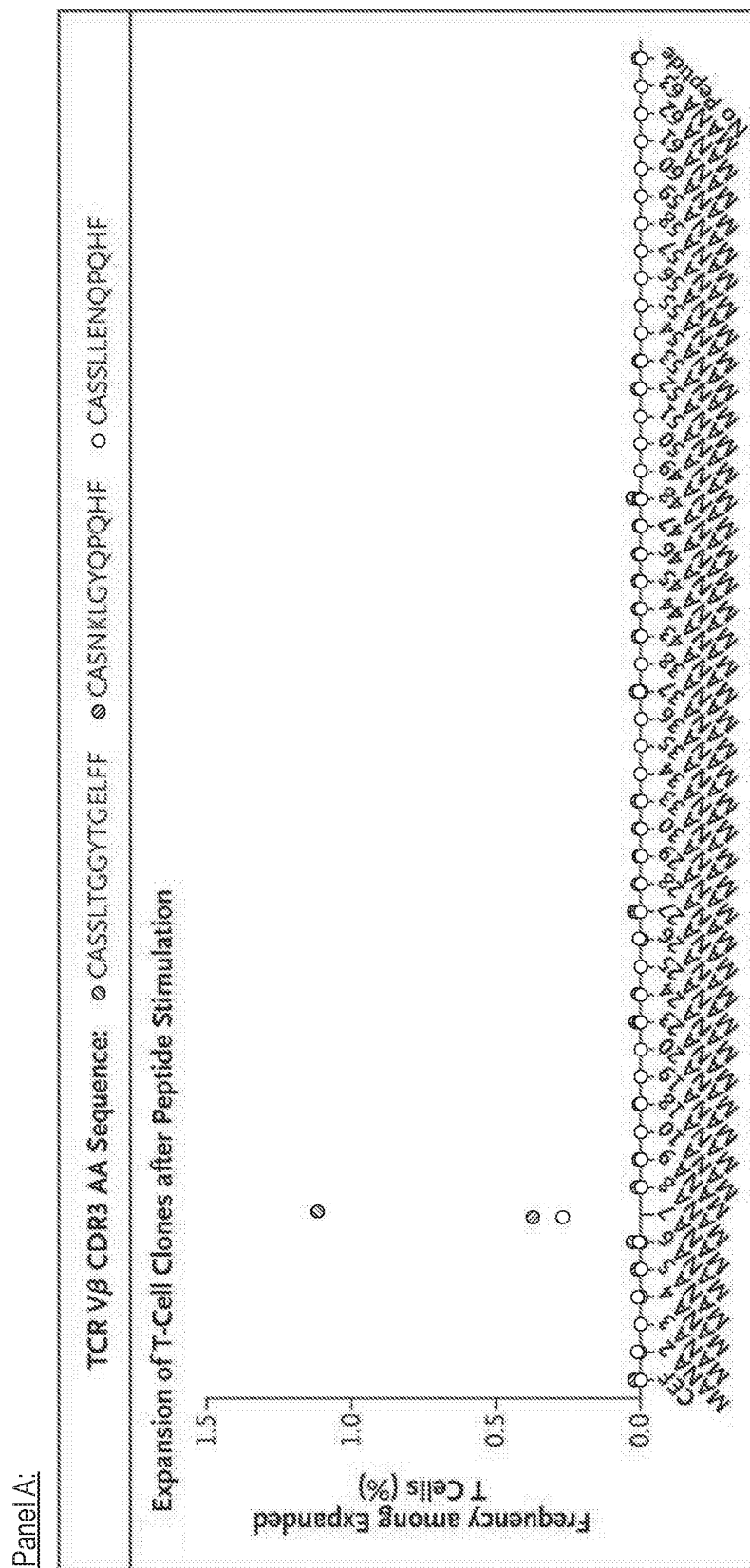






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Panel B:

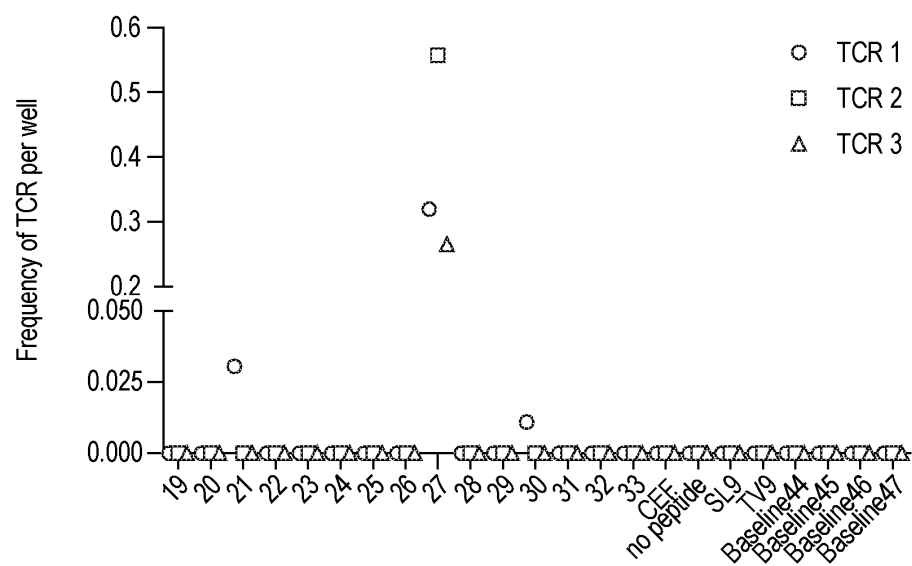


FIG. 51(cont)

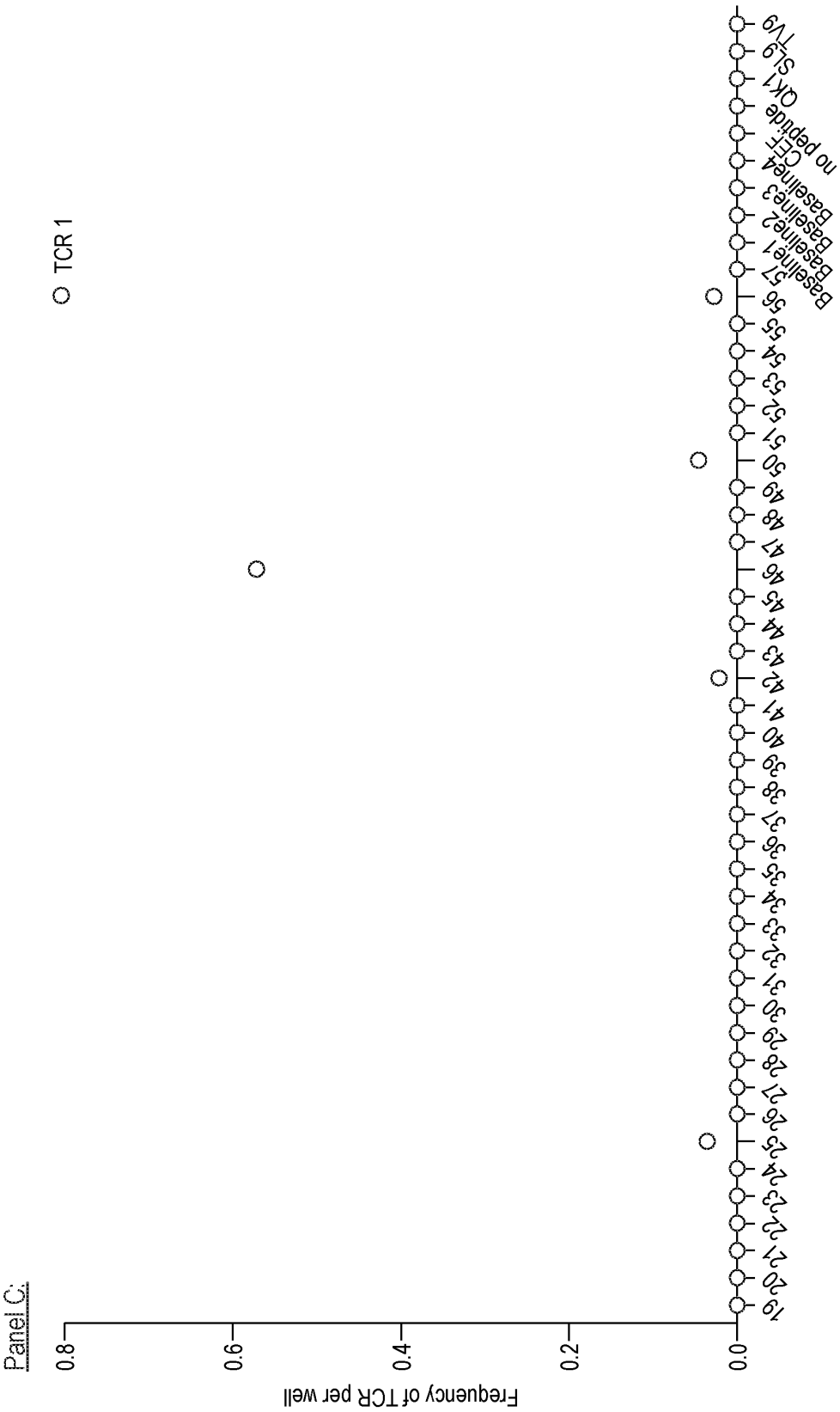


FIG. 51(cont.)

Panel A: CLT Antigen 1 sequence (annotated with mass spectrometry-discovered peptides) above HERV-FEST detected peptides

CLT Ant 1 >	MWNEFRRELTSNGFPENFSLDVPANTYNALKSRLCDPNADHTSCPPCSLHAAGALPGTGRQWRVVELAHLADRKLSLRDVSRLRQG
Pat.188B	ANTYNALKSR (A*11)
Pat.188B	HLADRKLSL (B*07)
Pat.224B	VPANTYNALK (A*03)
CLT Ant 1 >	GERRSGIAKVVRGGAGFAARLQGSVTLVQGGWFFPRLGGCQAWRMGAVVWCGELLTCTS
Pat.224B	RLGGCQAWR (A*03)

FIG. 52

LILDFQPLQL (A*02)

Panel B: CLT Antigen 2 sequence (annotated with mass spectrometry-discovered peptides) above HERVET detected peptides

CLT Ant 2 >	MTGVLIRGDLVTDMVACRIKTRFGHTEKAAICKTRKESAEETSPAD <u>SLILDFQPLQLMSSFS</u> <u>TLASLDK</u>
Pat.222B	<u>LILDFQPLQL (A*02)</u>
Pat.222B	<u>LMSSFS</u> <u>TLASL (A*02)</u>
Pat.222B	SLILDFQPL
Pat.224B	<u>LMSSFS</u> <u>TILA (A*02)</u>
Pat.224B	<u>QLMSSFS</u> <u>TILA (A*02)</u>
Pat.224B	<u>MVACRIK</u> <u>TER (A*03)</u>
Pat.254C	<u>MVACRIK</u> <u>TER (A*11)</u>
Pat.254C	VTD <u>MVACRIK (A*11)</u>
Pat.225B	<u>SSFSTLASLDK (A*03)</u>
Pat.225B	<u>SPADSLIL (B*07)</u>
Pat.225B	SLILDFQPL
Pat.271B	<u>LVTD</u> <u>MVACRI (A*01)</u>
Pat.271B	<u>LILDFQPLQL (A*01)</u>
Pat.271B	<u>MSSFS</u> <u>TLASL (A*01)</u>
Pat.188B	SLILDFQPL
Pat.293B	SLILDFQPL

FIG. 52 (cont.)

Panel C: CLT Antigen 3 sequence (annotated with mass spectrometry-discovered peptides) above HERV-FEST detected peptides

CLT Art 3 >	<u>M</u> <u>N</u> <u>T</u> <u>P</u> <u>N</u> <u>I</u> <u>V</u> <u>S</u> <u>L</u> <u>R</u> <u>A</u> <u>H</u> <u>Q</u> <u>P</u> <u>E</u> <u>V</u> <u>G</u> <u>I</u> <u>P</u> <u>S</u> <u>V</u> <u>L</u> <u>L</u> <u>M</u> <u>R</u> <u>P</u> <u>L</u> <u>R</u> <u>I</u> <u>K</u> <u>G</u> <u>V</u> <u>F</u> <u>H</u> <u>I</u> <u>H</u> <u>S</u> <u>P</u> <u>L</u> <u>H</u> <u>G</u> <u>E</u> <u>N</u> <u>Q</u> <u>G</u> <u>F</u> <u>T</u> <u>L</u> <u>C</u> <u>L</u> <u>Q</u> <u>G</u> <u>A</u> <u>P</u> <u>P</u> <u>S</u> <u>S</u> <u>V</u>
Pat. 254C	VLLMRPLRIK (A*11)
Pat. 225B	MRPLRIKGVF (B*07)
Pat. 271B	NTPNIVSLRA (A*01)

Panel D: CLT Antigen 4 sequence (annotated with mass spectrometry-discovered peptides) above HERV-FEST detected peptides

CLT Art 4 >	<u>M</u> <u>A</u> <u>K</u> <u>T</u> <u>K</u> <u>G</u> <u>S</u> <u>L</u> <u>S</u> <u>V</u> <u>F</u> <u>R</u> <u>E</u> <u>L</u> <u>H</u> <u>P</u> <u>A</u> <u>A</u> <u>F</u> <u>D</u> <u>R</u> <u>A</u> <u>V</u> <u>H</u> <u>F</u> <u>L</u> <u>F</u> <u>L</u> <u>E</u> <u>L</u> <u>W</u> <u>L</u> <u>P</u> <u>E</u> <u>P</u> <u>M</u> <u>L</u> <u>S</u> <u>S</u> <u>P</u> <u>S</u> <u>S</u> <u>T</u> <u>A</u> <u>P</u> <u>L</u> <u>L</u> <u>G</u> <u>S</u> <u>E</u> <u>P</u> <u>L</u> <u>R</u> <u>H</u> <u>E</u> <u>A</u> <u>S</u> <u>L</u> <u>S</u> <u>R</u>
Pat. 222B	FLFLELWL (A*02)
Pat. 222B	SVFRELHPA (A*02)
Pat. 224B	FLFLELWL (A*02)
Pat. 225B	SPPSSTAPL (B*07)

FIG. 52 (cont.)

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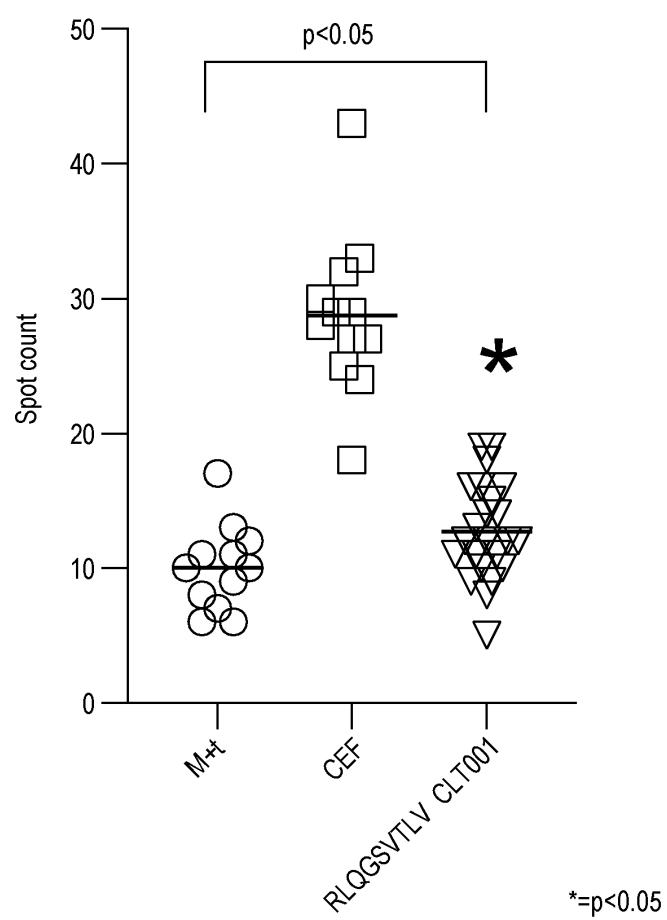


FIG. 53

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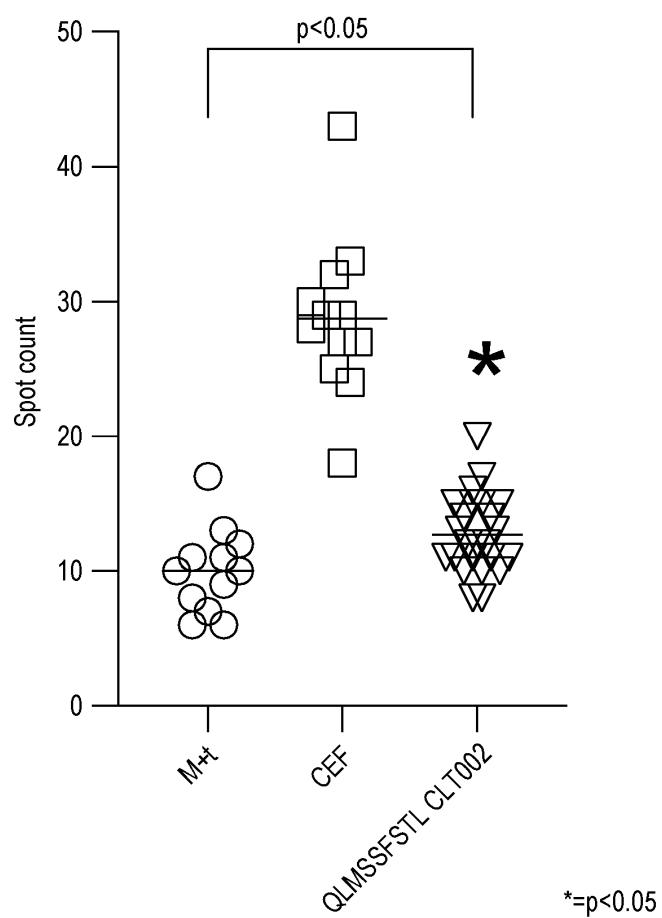


FIG. 54

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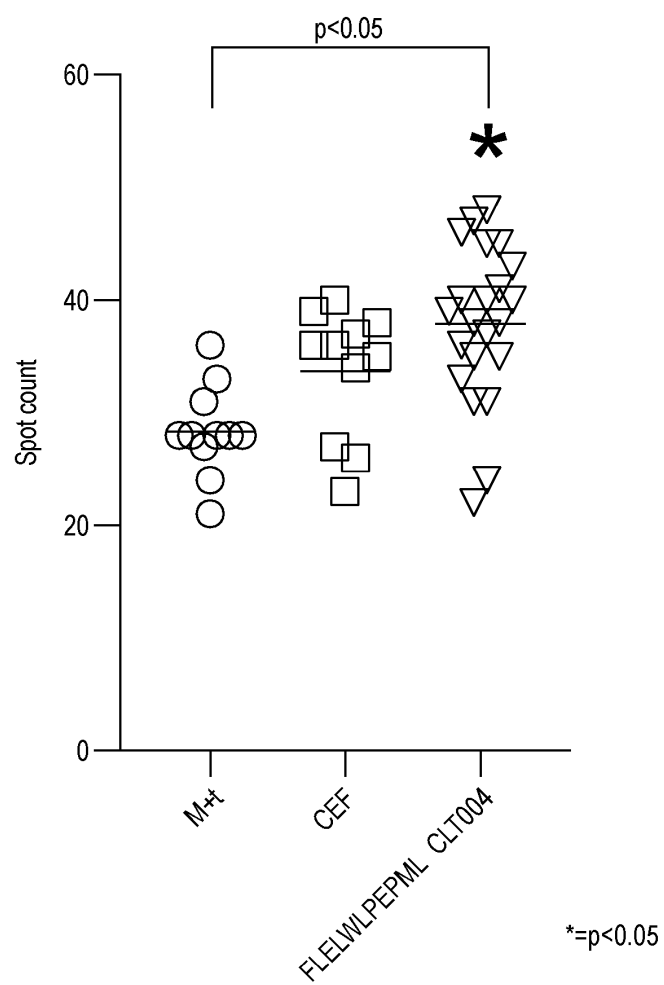


FIG. 55

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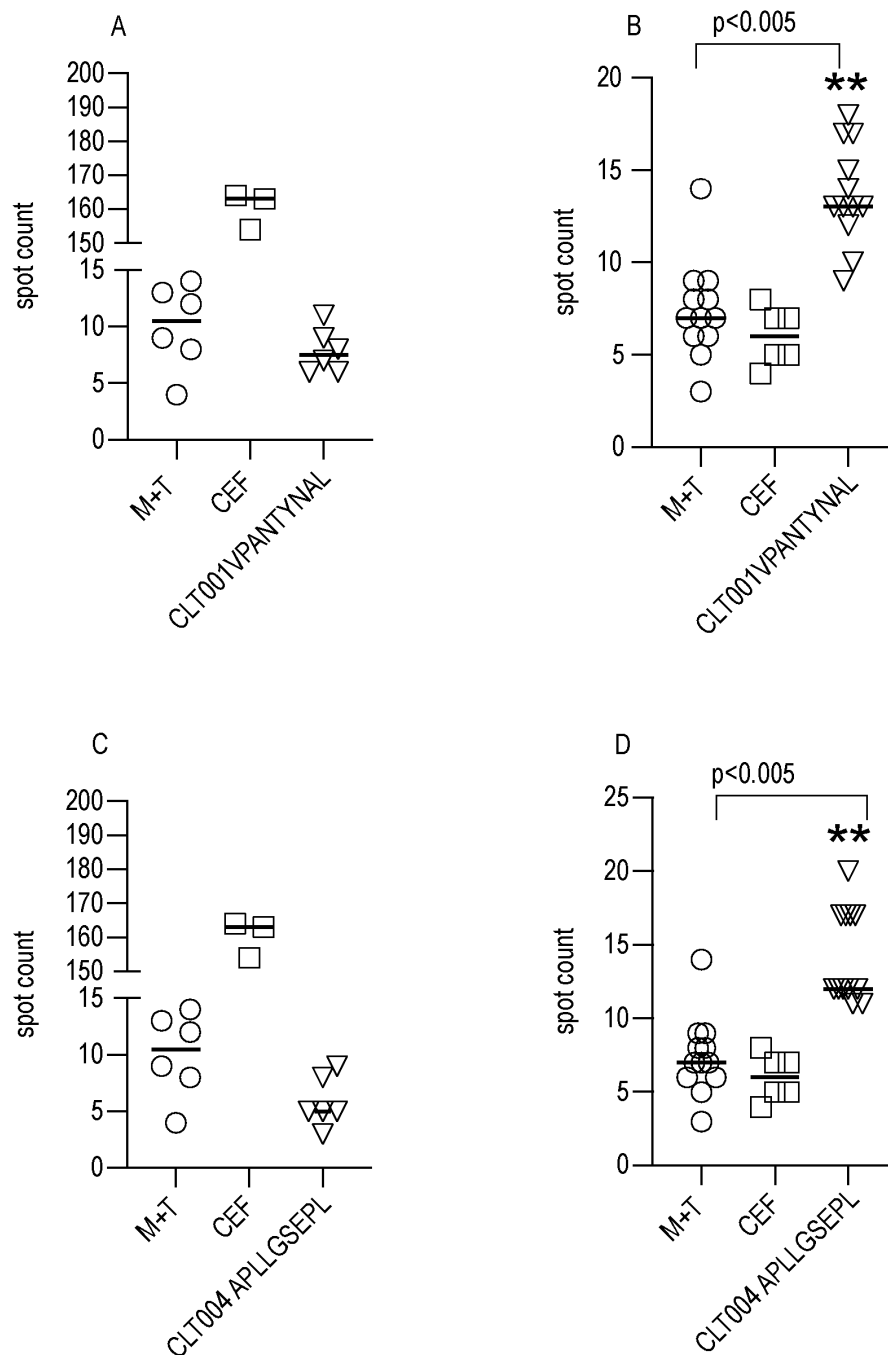


FIG. 56

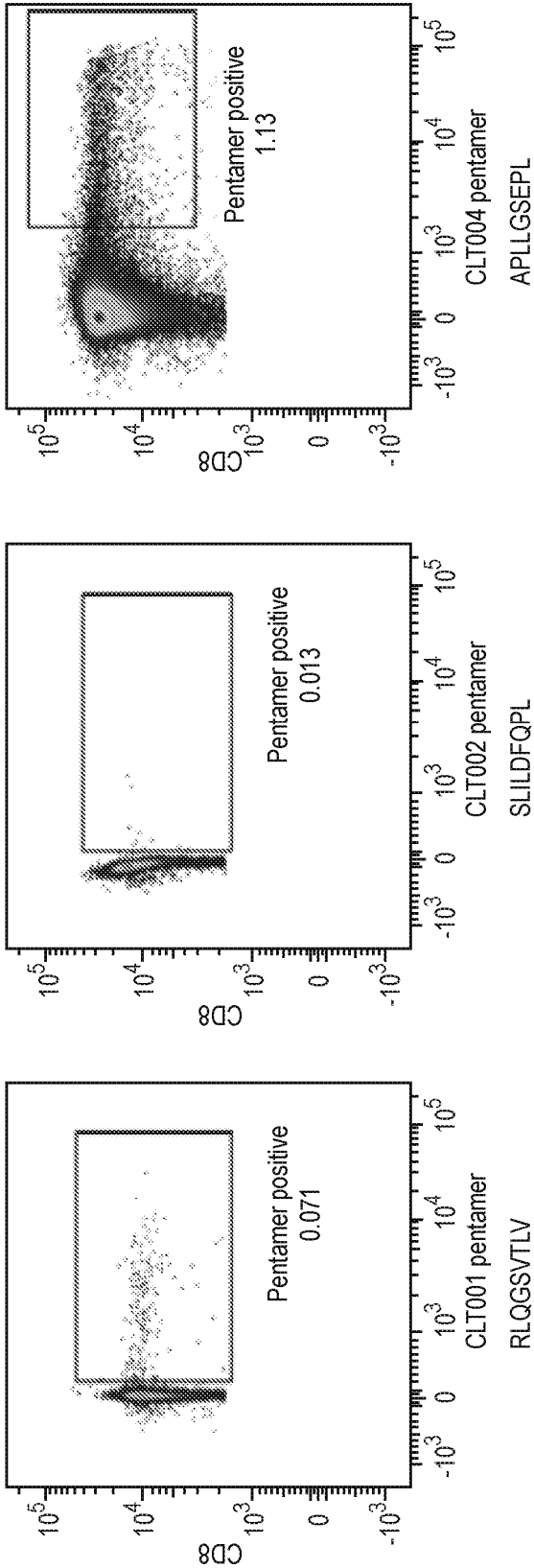


FIG. 57

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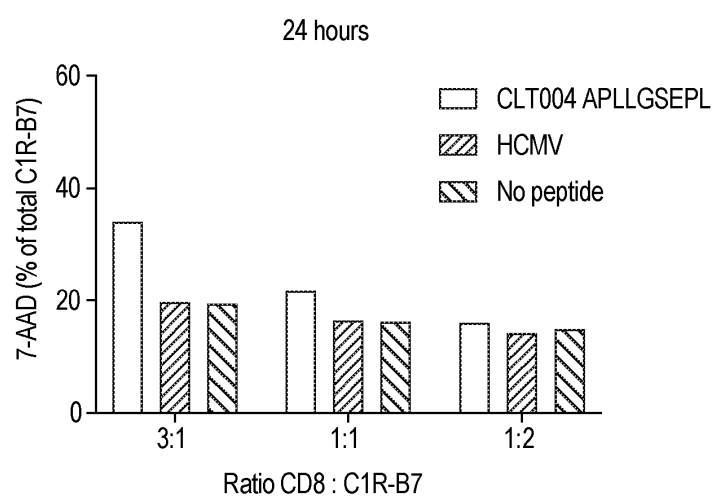


FIG. 58

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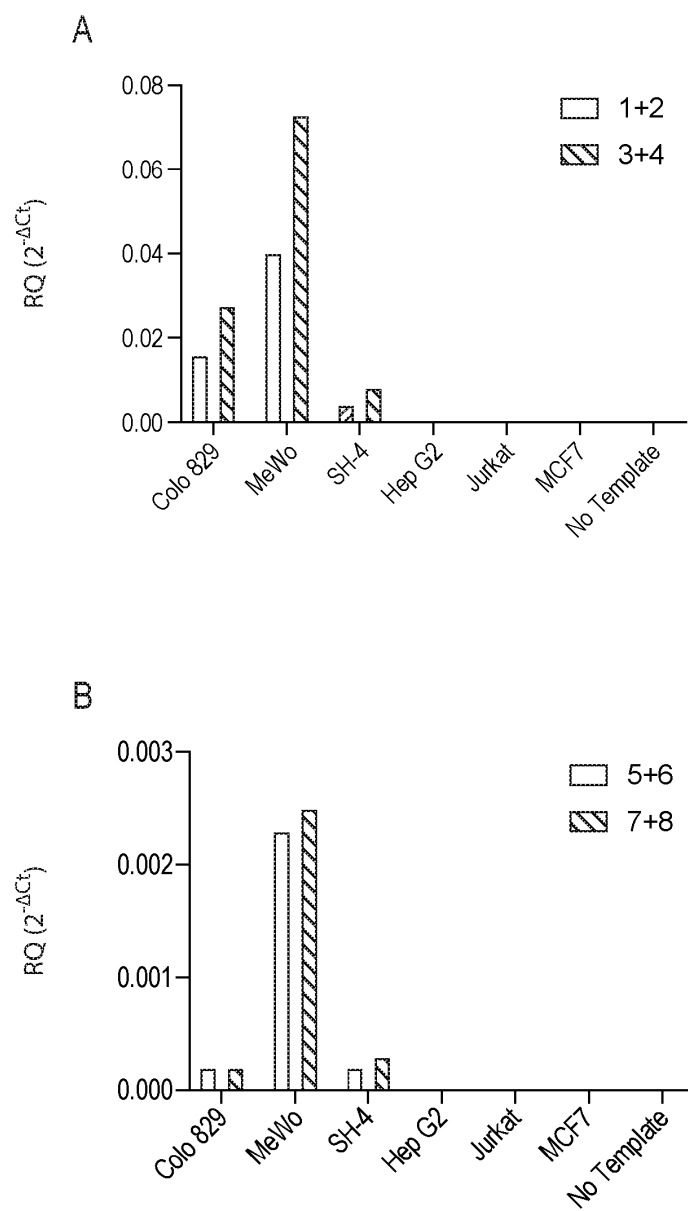


FIG. 59

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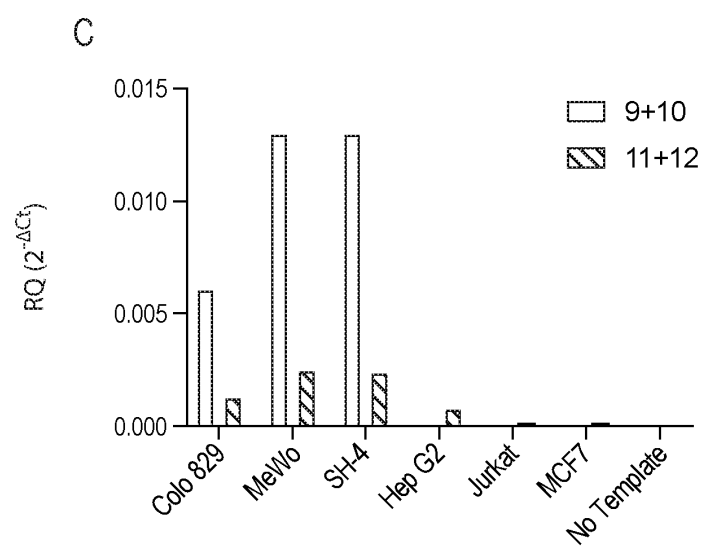


FIG. 59 (cont.)