

Supporting information:

Neuropeptidomics of the bed bug *Cimex lectularius*

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Supporting information S1:
updated list of prepropeptide sequences predicted from the bed bug genome

signal peptide

predicted bioactive peptide

predicted C-terminal glycine amidation site

predicted dibasic cleavage site

predicted C-bridge site

underlined: sequence of neuropeptide confirmed by MS/MS

dotted line: mass match only

ACP Scaffold 9:9306170-9313084(+)

MSLAIAITATFLVLNSHLGQAQVTFSRDWSAGKRGVPECAVPFKSAAAIGQMLLSELRAIA
 NCELRTAYTQKLAQDEDNTQDVFIQHNG

AKH Scaffold 69:519350-519150(-)

MRFSIFLCLSIFLSIVYVGALAQITFSTGWGKRAVNPASCRFDLNPLLFISSRLQTELQKMM
 ECAQ

AST-A Scaffold 3:11092998-11093099(+)

MLIPCFATLLFLFELSGKRGVNAETDKDLHDICKRLYDFGLGKRAAYSIVSEYKRLPVYNF
 GLGKRAAGEKTYSFGLGKRDYDMDEEYDDEMRRDFNKRGRQYAFGLGKRLPKQYSFGL
 GKRPEGKMYSFGLGKRSQMAESDDYDSIENGRGMEEKRTKSGKDLRYMFGIGKRDVDE
 DERARQERSMHYNFGLGKRIANMQEKDTTQSALVN

AST-C Scaffold 11:4487168-4507300(+)

MFTKSSTGPISVAFFFFVLAVVAVANAQVPDKEKLLNELELVDDDGSJETAVMNYLFAKQIV
 NRLRSQGDISDLQRRKRSYWKQCAFNAVSCFGKSKTTRRPRKNSRIQTKERTMGLLS

AST-CC Scaffold 11:4249002-4249417(-)

MCHRNQISCLICWWLVMVLTVLVPASASPAPKYTDYQQMGVSYDEYPVVVPKRAAVLLDR
 LMVALQKAVDSDHLED SVNRIPLSDKMDLQRRGQQKGGRTYWRCYFNAVSCF

Allatotropin Scaffold 13:2340895-1241074(+)

MRWILVAVCLSLATVIASARS SGNYAREDRGRSTRGFKNGPLNTARGFGKRLSQEDLIP
 ADWMAD EITSNPD LARLLVRRFMDVDQDGFVSPLEFLRPPLKQSCQPEQDDSD

Bursicon alpha (BURS) Scaffold 81:943414-943878(+)

MTTSNLFWDIVLLGSILMSQTVLCEKQNKPRRLDECDVTPVIHVLQYPGCVPKPIPSFACQ
 GRCSSYIQVSGSKIWQMERSCMCCQESGEREASVSLFCPKAKPGERKFRKVMTKAPLE
 CMCRPGTGIEESAIVPQEIAGFTDEGPLNNHFRKPPQ

Bursicon beta Scaffold 81:938416-939284(+)

MPVGLILLASMHVNQFALALACVALARGQGQDEACETLPSEIHIIKEEFDELGRLSRTCNG
 DIAVNKEGACTSQVQPSVITPTGFLKECYCCRESFLRERIVTLTHCYDPDGMRLERDGS
 STMDVKLREPSDKCFCFKCGDYTR

Calcitonin-like DH Scaffold 101:1870044-1870188(+)

MVTLSLVFASVILLSAASESVPYMGPRAYLGDFESEPDQTQVMMEILAKLGQTIMRANDLEN
SKRGLDLGLSRGFSGSQAACHLMGLAAANFAGGPGRRRHA

CAPA Scaffold 7:11281310-11294557(-)

MRSSIALPCCCTLLLFFAVSQGEDIPSHAPKLKREVRPFEPFPRVGRSKNFPVTWGLQEDK
YKREGGLIPFPRIGRSGPKRNGGNGNGGLWFGPRLGKIQRFPNTNYENIPGNFY

CCAP Scaffold 65: 858772-858145(-)

MQLILSCLLLPVLLSTAKADDVILQKKFYFPDEVSEPDPKIKKPFCAFTGCGKKRSDESM
GTLIDLNSEPAVEDLSRQIMSEAKLWEAIQEARMELMNRKHQGERMPLRPLPLTGIRKRS
QYYYQKK

CCHamide-1 Scaffold 5:1556140-1581248(+)

MHHAYTLLVMASIVASAPTYASGSCLSYGHSCWGAHGRSGNDETRWIISKLAPLPIQLQ
NRQAKLAQILLAQQNRAGSESDENIMMSEEPVREEVPEDKQVIIMEQPPRLFQLLKQFP
RSLDAREAIIN

CCHamide-2 Scaffold 61:1324439-1366066(+)

MQQTLLIAVLFIIVLFTANGSPYRGDREARLRKTSNVRRGCTFYGHSCFGGHGKRSDES
MDLQEQPDLYEQRLKSSEFFRQWLQAYRTGQVLE

CNMa Scaffold 11:4583742-7583780(+)

MMGVVRPVLICAVLLGLLSQVPASSEEQAPLTLQDISILLDYLQNRETYGSES RPEGEQPL
TYENIIKDEMENDPEQLLTQKRAGYMALCHFCKCNMGRKRTYS DIFRKRKMWPRL

Corazonin Scaffold 10:15594182-15594524(-)

MKFVITMILAICLFASVFGQMFOYSRGWRNGKRSGEVMKESSCQLLLRSLLDNKPVSQIN
SLCDWCYEQKQTLLPLRQE VAGTDLQDK

CRF-like diuretic hormone Scaffold 8:8711168- 8855809(-)

MWVKCLCVCLISGVVVALTQEVPRDPETTWPLRKLRYVDVQPRMTAELQDLLEDLEKVK
RSSPSLSVANPIDVLRSLMLEINRRWMNKVDEGQVQANRQFLQTIGKRYIMPQRALYQD
KSDSPTDYNNSGDLNWDSS

Ecdysis-triggering hormone ETH Scaffold 8:13550169-13551159(-)

MFVTFLFFNGTFCFSFKAPLTECMISGGWVKAEPDKSLYYYDSHDHTKLNDNIHADDN
NFVPVMVRRNDFFLKASKSVPRIGRRNDFFYAKTHKSVPRIGRRNDFFLKASKSIPRIGRR
NDFTSQSDKEGIMDWPWFREHEYIPKVLKDDTNYEHLQEGNKEIPESRQQPLV

Eclosion hormone EH Scaffold 6:9548652-9555160(-)

MLGIRYLVAFLCISSMIWDTATSNQVGVCIRNCAQCCKMFGAYFEGQLCADTCLKFKGKLI
PDCEDVSSIGPFLNKID

Elevenin Scaffold 99:555094-555779(-)

MYKRRDSTEYCVWSCIVILFVLALVVASQTEYVTGRGGRQVDCMKYVFAPVCRGVAAKK
SAKRSTNFIPRLQYNVLRSQEELDPWYGFQPEGRIPSNK

FMRFamide-like peptide Scaffold 3:7469091-7470207(+)

MFGAMLVGAWLLIHQQCCVTGEADSRNRYSLYDPLTRRSALAEKNFMREGRSLWTSADDY
NQSETMAKFSFLRFKSKTDSFTELGSYGRGNEDIGPRATRSDDNPNVNEKHSDGQQFDE

IKFDLDGFSRFAKAKGNFIRFGRNADNFMRFGRARNNFIRLGRNTENFIRFGRNRDVLS
PWTGKRRIPSISEAKRKGEDFQRTGKNDNFMRFGRYKTGDLDPLQGRGEGNENERPRR
RTRSTNENILRKNRGRGFVGFARQKEMDKGGGFIRFGRTGKEEGSRFDDEIQFASMDCK
QKHYSRLSRVERGENDDHRLRLRFQFQKSVGMAPNFTALLQNRMAPTIGSFPTDSMEVT
LKNFFHFYSILLTKLNAIALK

Glycoprotein hormone alpha2 (GPA2) Scaffold 17:8762820-8770389(+)

MYRLILALLLCNLASAFGQKDSWEKPGCSRVAHSRKVSIPDCVEFYLTNNACIGYCESWAV
PSPPETIFNNPLQGITSIGQCCNMIETEDVSVTVRCLDETKELIFKSAKSCSCYHCKKD

Glycoprotein hormone beta5 (GPB5) Scaffold 17:8844690-8878900(+)

MTAHNSHRAAVAFVILVGCAAGIELDTNELTKSTLACHKRIFSYKVAQHDSKGRI CWDTISV
MSCWGRCVSDEISDWRFYKR SNHPVCMHGIREPRKVKLKHCEEGAEPGTEVYEYLHAV
SCKCHVCKSSEASCQGRKPLLFANEGTFSHFGSAW

hugin-PK Scaffold 39:5576278-5576132(-)

.....ASRNTVNFRPRLGREEDIIFTETSRSPPFAPRLGRMVPFSPRFGRISEYN

Insulin-like peptide 1 (IGF-like, putative IGF homolog) Scaffold 3:13766534-13791750(+)

MRVITFYLLCLFLPIYFCSSSNVRFGRSLAEALAVCSERGINMAFRPGAPIPTDRRYR
RGIVDECCHNGCSFSTLESYCEGSSDDSKSPPYLQIRGGHLAMKGTQLQDRLMTSLFY

Insulin-like peptide 2 (insulin-like, insulin homolog) Scaffold 3: 6846944-6853148(+)

MWRWIILLAAVASVFGNFYHLRSYAPFHKRSSQKYCGPEIHEALRVCNGYYNHMFKKSY
NFEDDRMNVFLEGEETDDLIPINSKENALSMFSKNYFRNKKGVYDECCRKSCSISELTSY
CADGQG

Ion-transport peptide Scaffold 76:2612893-2627480(-)

weak signal peptide, 2 mRNAs without effect on peptide sequence

MLQERRALAGLVVASTLISCFVAGPTSRIIMGHPLNKR SFFDIRCKGVYDKSIFARLDRI
DCYNLFRAPQLHSLCRKNCFTSVYFKGCEVLLLQDEMENIQSWIKQLHGAEPDL

Kinin Scaffold 9:741643-770873(+)

MLMLLLCLLWLAIASCDTIRCDVASSRPSKSIEMAENRTVVPGRDKRGASGLDEILEELQS
KR DSPGPKMRFSSWGGKR SEDLLDEEEKR SKFSSWGGKRKFSSWGGKR LPADYEEGK
KRAKFNSWGGKR VKFNSWGGKR SDPEEDKISKFTSWGEKLSDEDDDDVEYVDQDKR STF
NSWGGKREDETWRDMIKR TKFNSWGGKRAINSTADMLIFKRANPNSSWKRKPIFSSWG
GKRTARSAQPFRLLPNTLLKEHSWGSLLRPIRRGPDFYAWGGKRST

Myoinhibiting peptides MIP Scaffold 3:7174257-7178558(+)

MSWRTLFLAWVAVAINCEVPDFVGPQSPLEETNSALNLPEDSPNKKAWKDLTTAWGK
RGWKDLPATGWGKR GWQDLQSAW GKR GWTDLNSGGWGKR GWQDLNSGGWGKR
WQDLNSGGWGKR GWQDLNSGGWGKR GWQDLQAPAWGKR EEEKSLDEKESEGEDAKR
SWVSLHSGWGKRAADWGSFRGSWGKKDPAWQNLKGLWGKR NYNGFMPEYDPGYNTL
DEEGRRAK

Myosuppressin Scaffold 101:1241776-1301556(+)

MNTFWVTLFVAVVVVGCFSSAPGPDCTPSALLEQPPVRNICAALYQVSNALQAYMDDQ
LNYQPMLAEGADDKVKKQDQMDTHIFLRFGRRR

Natalisin Scaffold 9:730308-73282(+)

MSLASGLLLALLALALQGIGAEEDRRSDVRAVLGAETEPGFWPTRGRRGGSSSEEQPPPFW
AHRGRDI
QIPCSSSPVPSRLYAQEPKYLLIQRRDVLQPLWVRGKKWPQE

Neuroparsin-1 Scaffold 34:1138598-1124837(-)

MFLCNYFTLVVAITFLQAYRINSKPFPPCHEDNSCKPEIEKCQYEIVTDYCGRKVCCKGP
GQRCGGLSNFLGTCAKGLQCKCNKCSGCALQSLKCFYNEIMCFD

Neuroparsin-2 Scaffold 75:1885788-1888428(-)

MLFRFLIIFSVLLMAWEASGLFSLCIPCNAGEECDVEPTDCLDGVVKDA CGRYVCGAGPGE
RCGGRANHLGKCGIGMTCKCKGKCGICSTARIMRGEIVCEDSHPMMSAKMELLNL

Neuroparsin-3 Scaffold 75:1893683-1894019(+)

MVRSGYTALSILAVCCIAATQAGSHIHDCAPCRGEECNKFRTDCPYGVVKNWCCEHYVCGQ
GPGERCGRRHQFGLICGDGMQCNCKVCTGCSQAMAENGIMLCDNTYCPPNY

Neuroparsin-4 Scaffold 75:1906914-1938761(+)

MVRPRYTAFSIIAACCIATQASSHIHDCCTPCRGEECNKYRTDCPYGVVKNWCCEHYVCGQG
PGERCGGRRHQFGLICGDGMQCNCKDVEDKQVVFSLSMMSLVGKLLFYIVYGHVPTLIS
NVPKREPSKGSNNDISLREGTTKRKVSS

Neuropeptide F (NPF) Scaffold 64:1622629-166764(-)

MSSWLFWLWACLAAWCFVAGAGQPMPADAMARPARPKTFDSPDDLRTYLNQLGQYAY
AGRPRFGKRTGFSPRLHLALDGLSSYRYPLSDPSELYELLFPQAD

Neuropeptide-like precursor 1 (NPLP1) Scaffold 6:3195692-3528835(+)

MFTTPLRIVLTAVLIAEAIGDGDEHHVEKRQANIIARMAHLQSYPRYYSNIAPKRDEKSSLD
ELAERLEEEEFKRSQDIRVTGDLEEKRDELEGLVHDLASAEEMRRTRLEALREELFRER
ELEEEEMPEEKRSFAALARVDALPKRILDDDNFSEDASDDKRGISSIARNGYYQKRMDDDL
EQLMSEVYGIGEKRNVASLARGFSLPQGKRNIASIVRGKKSFEETNEDKRNLPISIIRDRT
EPLGEGKRHIGAFVANHGIPFVNDKRNVGVLAKNRDYPYALKFGKRDVDEEINKRHVATLL
ROARLSDHPTETDDISLKETAQDDLKEEMSQITKDDMEHTRTKRMAREELEKRYFGVRG
GGKIPGGRLPKVSTRRGNRNENSGRRRH

NVP-like Scaffold 38:4166583-4161344(+)

MIFYDTIFLIFGLCAVSLALPTSLLEDMDKDAQFHTPVRTNKVKRAQEFIMFGNQONRAINNF
GSTKNEKRAAELDDNSLVDEEPMPTLVSDLEEHVYNNNQLGQGREPQSHISRDLYYNM
LLRNLDLSQNLHNEPAYNLDLPYYNIMESREKREIKEKSSKDQEWKREDSLTPEELLVLLK
VWENMEKPNRKLANPRYSLHENDPYDEEDEMPLVSDDNGPWYDRVDYYSHPSREREV
AWPRQHCRFMVSKREGRDSIPPVMPFQEEYADEIPLRRRFL

Orcokinin A Scaffold 60:2814127-2891290(+)

MISNLAVLAVAVVAVTALPRPEPAENSLFKGERNLYGLGGGHLLRDLESALRENPMVYERP
SRNLDSLQDGVTFGSSKRNNSVDPSETKRNMDEIDRAGFDTFVKRQLYNVGLADRVARKRN
FVPSHYEMYGNYNPVPPF

Pigment-dispersing factor Scaffold 28:4474551-4470721(-)

MKLLLTAAASLFLWLTEVYPASRALPFNTDERNDQVQFYGMPGSDTKDMALWLFDLLQKND
HVQIKRNSEIINSLLGLPKVLNDAGR

Proctolin Scaffold 6:377615-413462(-)

MTRKIFAGVLALILVLQLADSRYLPTRSMDRLLRLRQLLKDLLENDLDGELDHQMVYEPR
LYKREAYDKQLQYLH

Prothoracicotropic hormone (PTTH) Scaffold 6:1377067-1367599(-)

MFSNLLLKFFYFKKVVSAVLVMAASALAQSDFIVNGNDCLVVKRSPAAEIRPCLCPPSNEKL
VDLGRGHYPRYLVTLVCEPNRCHKSAIVCSSLPYKTRVLKRREEDDDSRPDASLPQSLR
EEWKFVHVPVVVACVCSL

RYamide Scaffold 20:274355-372886(+)

MWVSQTLLSLLLLMATSEGYSELYPMPVGFMANDDTVSIPVREPKSGIFWTGRRYSRR
GSSEETKKVKTRAESRFVIGSRYGKRTDVPPLDFGSNLCKFTSFHPLYPCSNR

SEFLamide Scaffold 81:58985-59063(+)

weak signal peptide, maybe first exon missing

MFYDPRSAFFFLFELFPGVQLVRRSKIWDRQRCSMYSDCEGKRRVGTEFLGRAMAPIL
GRA

SIFamide Scaffold 21:2322600-2322200(-)

MSRVIFASCLLLVISFLVFDVATASYKKPPFNGSIFGKRTGPPTYETAGKALSTMCEIASEAC
AAWFPVQENN

short neuropeptide F (sNPF) Scaffold 61:3148692-3197866(-)

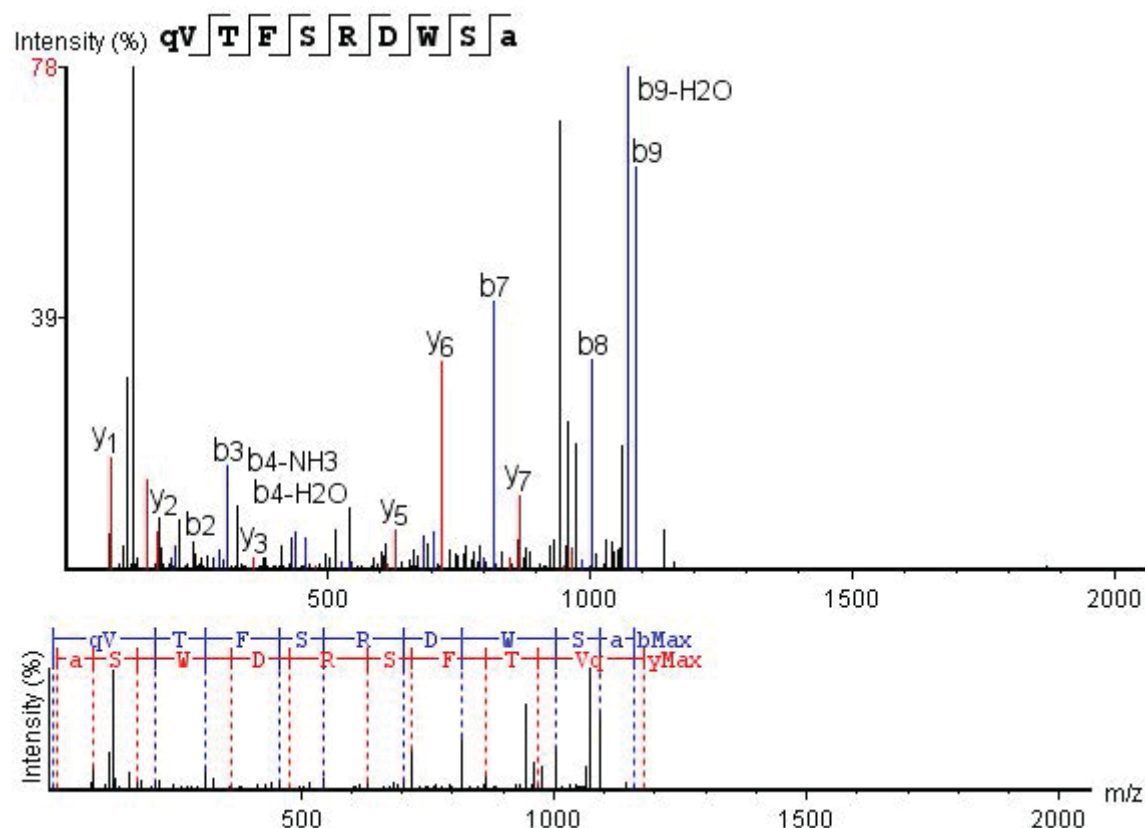
MKIALPMLGCLCALVILMSPEATTSLDYDSVGDLYEGLKRAAYPERVYKMEE RKDNRT
QLRLRFRRSVPLFPLEE RRLDQSRMDYFSN

Sulfakinin Scaffold 44:1549057-1549356(-)

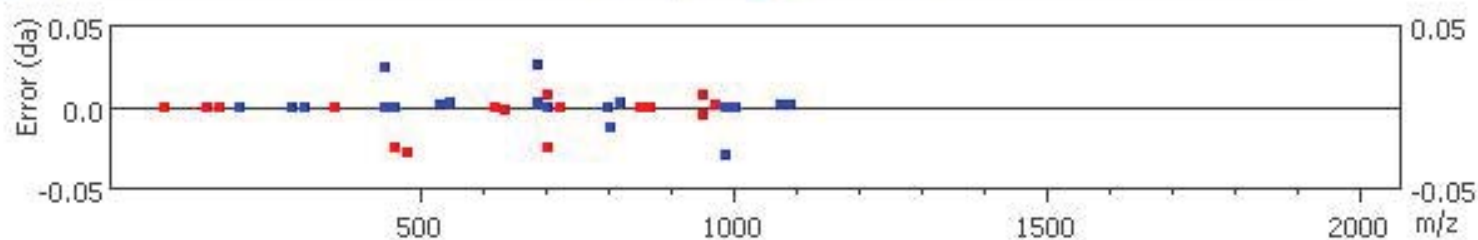
MNHNTMTSILLTLGIYLFQNTNCLCSAELSIDRPFRHHIHLRVPQLGDAAFQEDEDALRK
RQFNDYGHMRFGKREGTDEKFEDYGYLRFGRSPQ

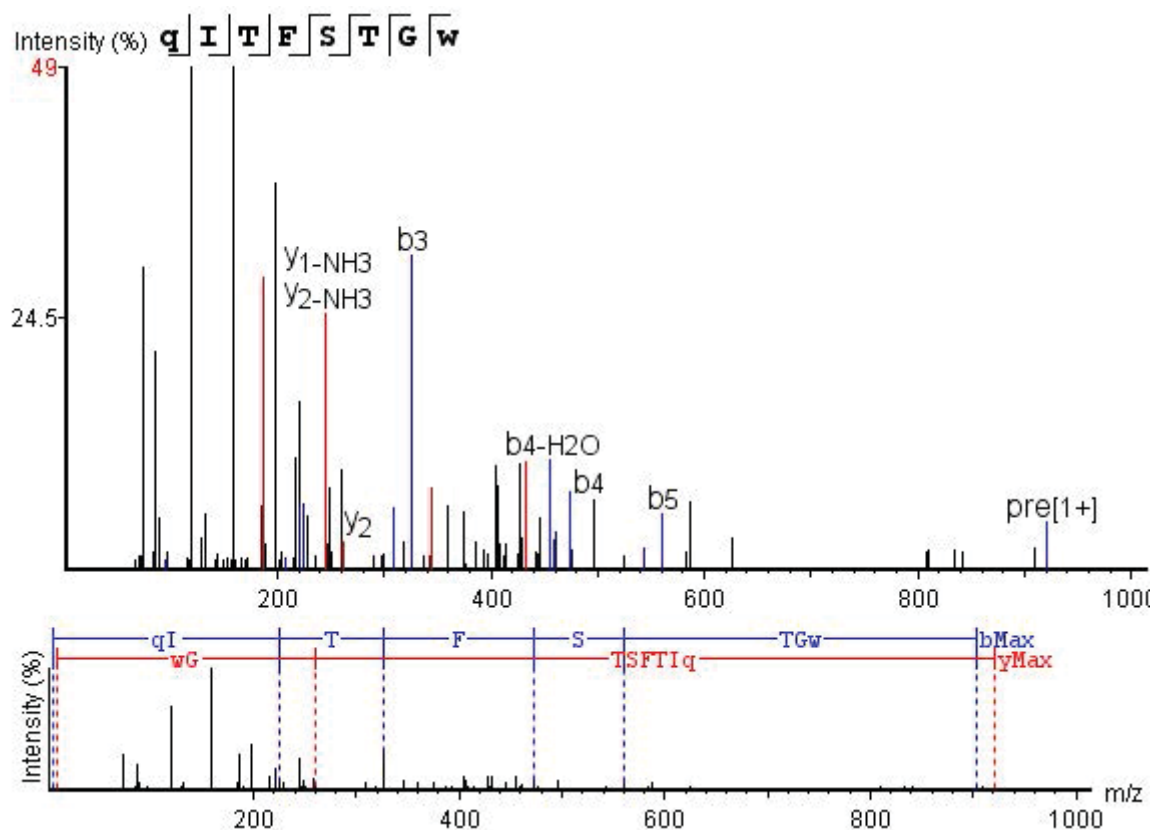
Tachykinin-related peptide Scaffold 9:7386839-7387369(-)

MLGMSVGWAFVFACLLSACLAQE RRQLGFLGVRGKKDGTDEEFKRAPTLGFQGLRGKK
EDVSDYDVEEYKRAPPMGFQGVRGKKGPTMGFVGMRGKKDGWDYLQEEEKRAPASGF
FGMRGKKAPASGFFGMRGKKGPSNAGFFGMRGKKGPSGFLGLRGKKDTPDDIDSLLQF
LTESRRMEDAMDSREKRLAGMMDPFEDYQMLNEPDLL

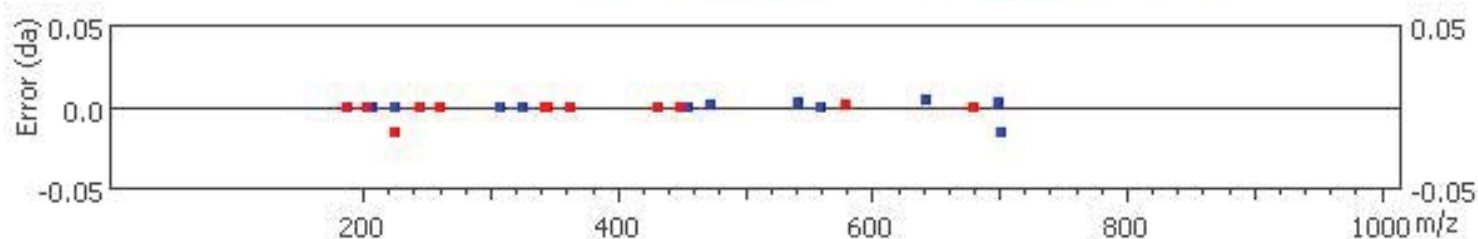


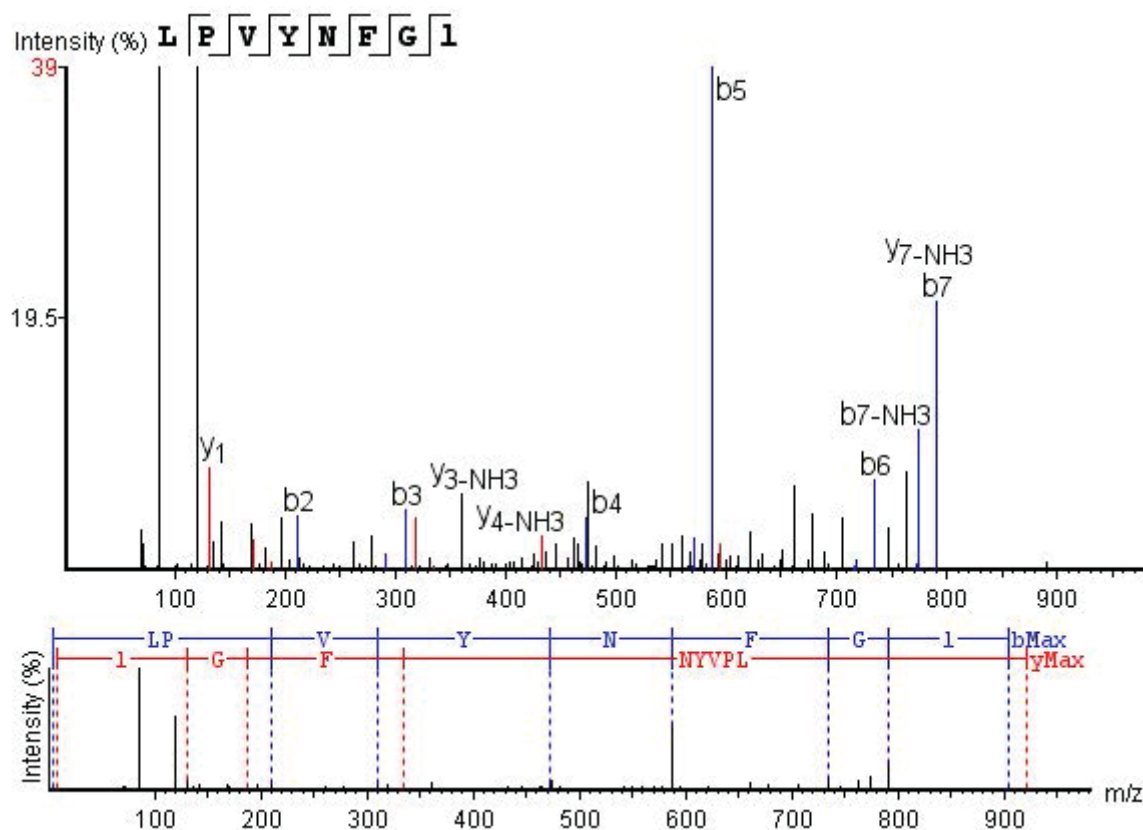
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1	112.04	94.03	95.01	56.52	Q(-17.03)					10
2	211.11	193.10	194.08	106.05	V	1067.53	1049.52	1050.50	534.26	9
3	312.15	294.14	295.13	156.58	T	968.46	950.44	951.44	484.73	8
4	459.22	441.21	442.17	230.11	F	867.41	849.40	850.38	434.21	7
5	546.25	528.24	529.23	273.63	S	720.34	702.36	703.31	360.67	6
6	702.36	684.34	685.30	351.68	R	633.31	615.30	616.28	317.16	5
7	817.38	799.37	800.37	409.19	D	477.24	459.22	460.18	239.10	4
8	1003.46	985.45	986.47	502.23	W	362.18	344.17	345.16	181.59	3
9	1090.49	1072.48	1073.47	545.75	S	176.10	158.09	159.08	88.55	2
10					A(-.98)	89.07	71.06	72.04	45.04	1



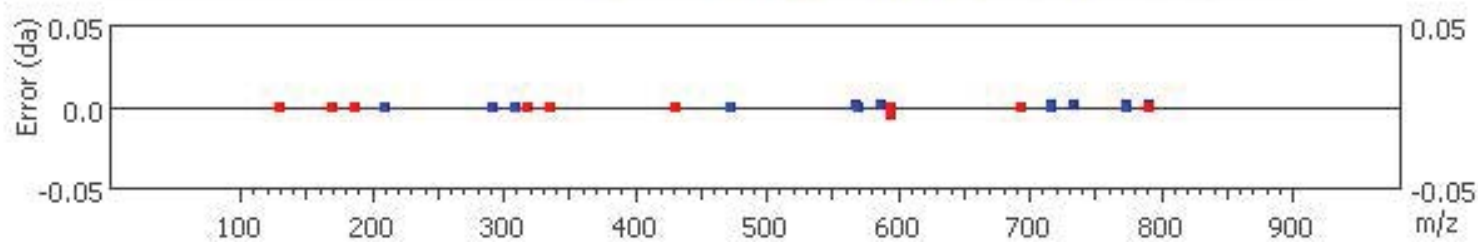


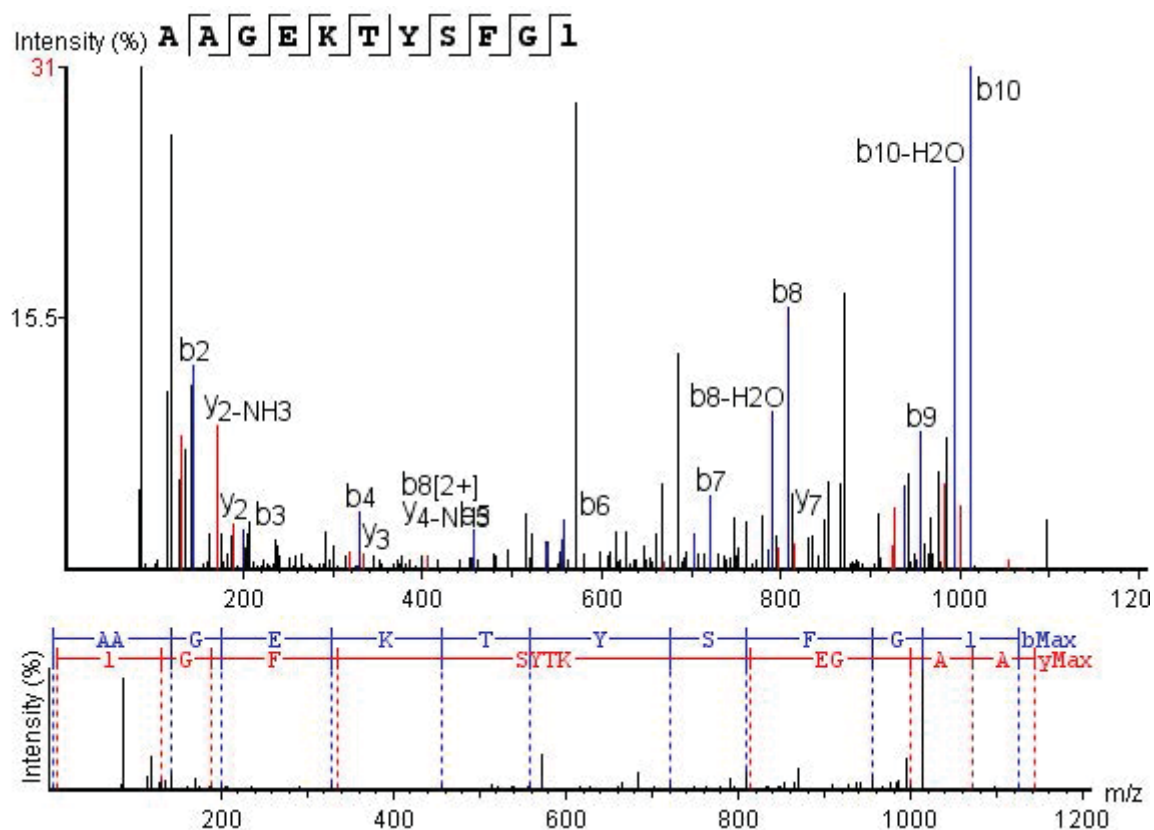
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1	112.04	94.03	95.01	56.52	Q(-17.03)					8
2	225.12	207.11	208.10	113.06	I	810.41	792.40	793.39	405.71	7
3	326.17	308.16	309.14	163.59	T	697.33	679.32	680.30	349.17	6
4	473.24	455.23	456.21	237.12	F	596.28	578.27	579.25	298.64	5
5	560.27	542.26	543.25	280.64	S	449.21	431.20	432.19	225.12	4
6	661.32	643.30	644.29	331.16	T	362.18	344.17	345.15	181.59	3
7	718.34	700.33	701.33	359.67	G	261.13	243.12	244.11	131.07	2
8					W(-.98)	204.11	186.10	187.09	102.56	1



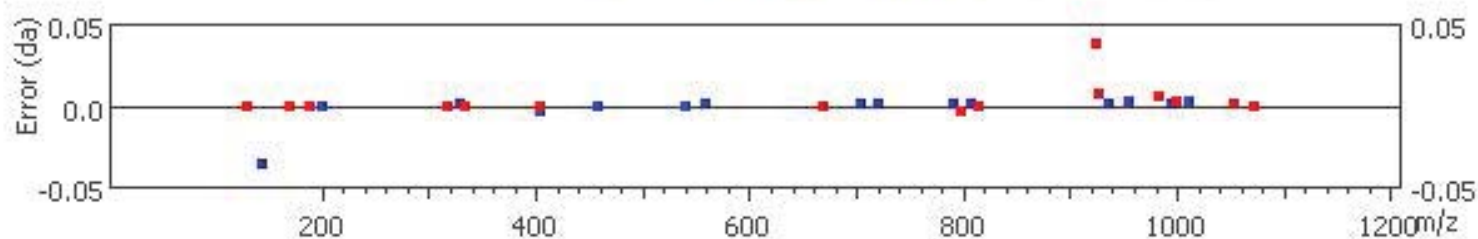


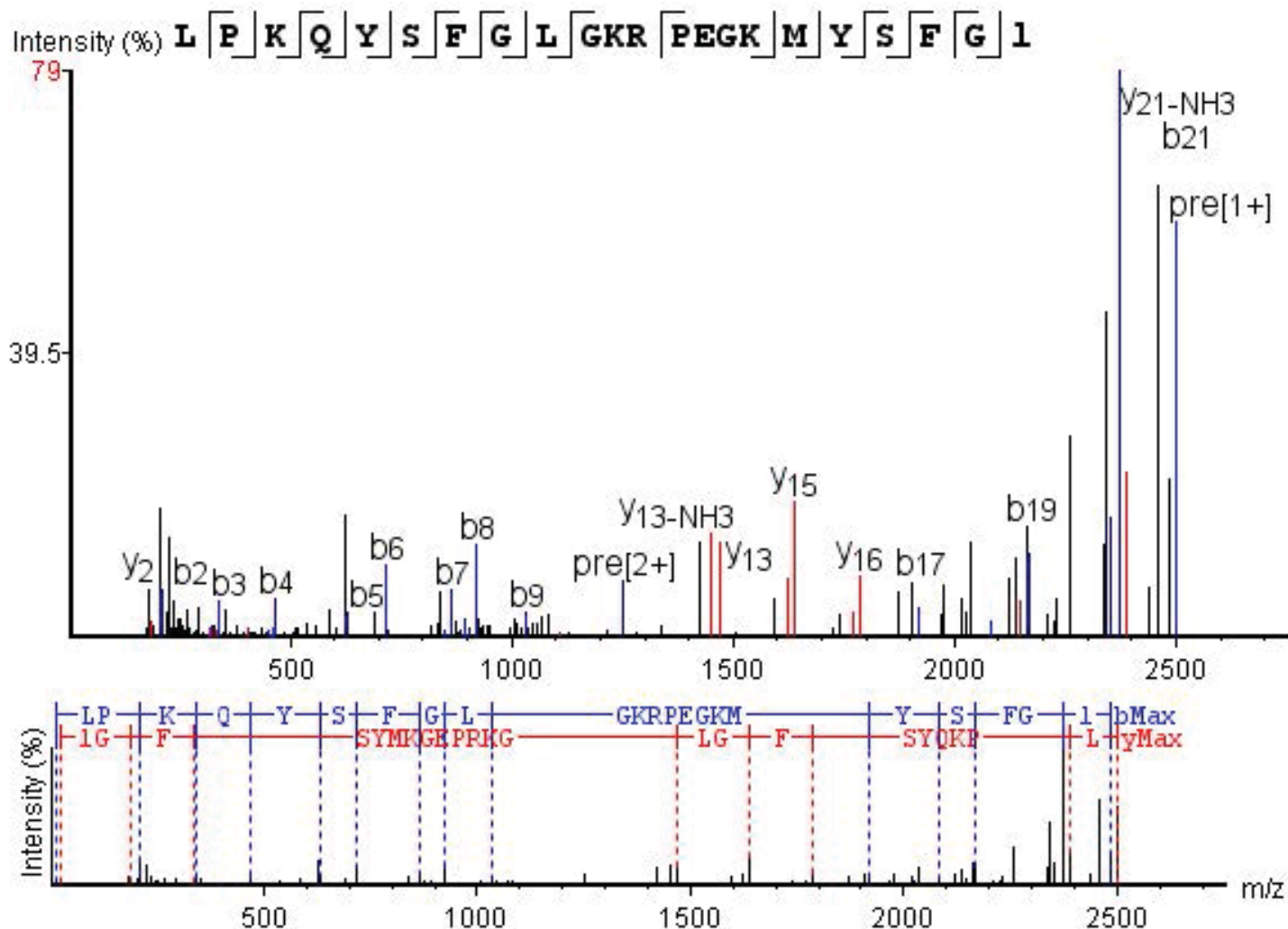
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					8
2	211.14	193.13	194.12	106.07	P	808.44	790.42	791.41	404.72	7
3	310.21	292.20	293.19	155.61	V	711.38	693.37	694.35	356.19	6
4	473.27	455.27	456.25	237.14	Y	612.31	594.31	595.29	306.66	5
5	587.32	569.31	570.29	294.16	N	449.25	431.24	432.22	225.13	4
6	734.39	716.38	717.36	367.69	F	335.21	317.20	318.18	168.10	3
7	791.41	773.40	774.38	396.20	G	188.14	170.13	171.11	94.57	2
8					L(-98)	131.12	113.11	114.09	66.06	1



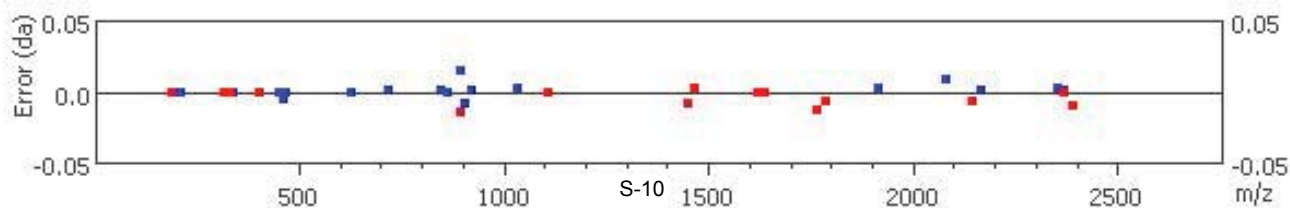


#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	72.04	54.03	55.02	36.52	A					11
2	143.12	125.07	126.06	72.04	A	1071.55	1053.54	1054.52	536.27	10
3	200.10	182.09	183.08	100.55	G	1000.51	982.50	983.48	500.75	9
4	329.14	311.14	312.12	165.07	E	943.49	925.44	926.45	472.24	8
5	457.24	439.23	440.21	229.12	K	814.45	796.44	797.42	407.72	7
6	558.29	540.28	541.26	279.64	T	686.35	668.34	669.32	343.68	6
7	721.35	703.34	704.33	361.18	Y	585.30	567.29	568.28	293.15	5
8	808.38	790.37	791.36	404.70	S	422.24	404.23	405.21	211.62	4
9	955.45	937.44	938.43	478.23	F	335.21	317.20	318.18	168.10	3
10	1012.47	994.46	995.45	506.74	G	188.14	170.13	171.11	94.57	2
11					L(-.98)	131.12	113.11	114.09	66.06	1

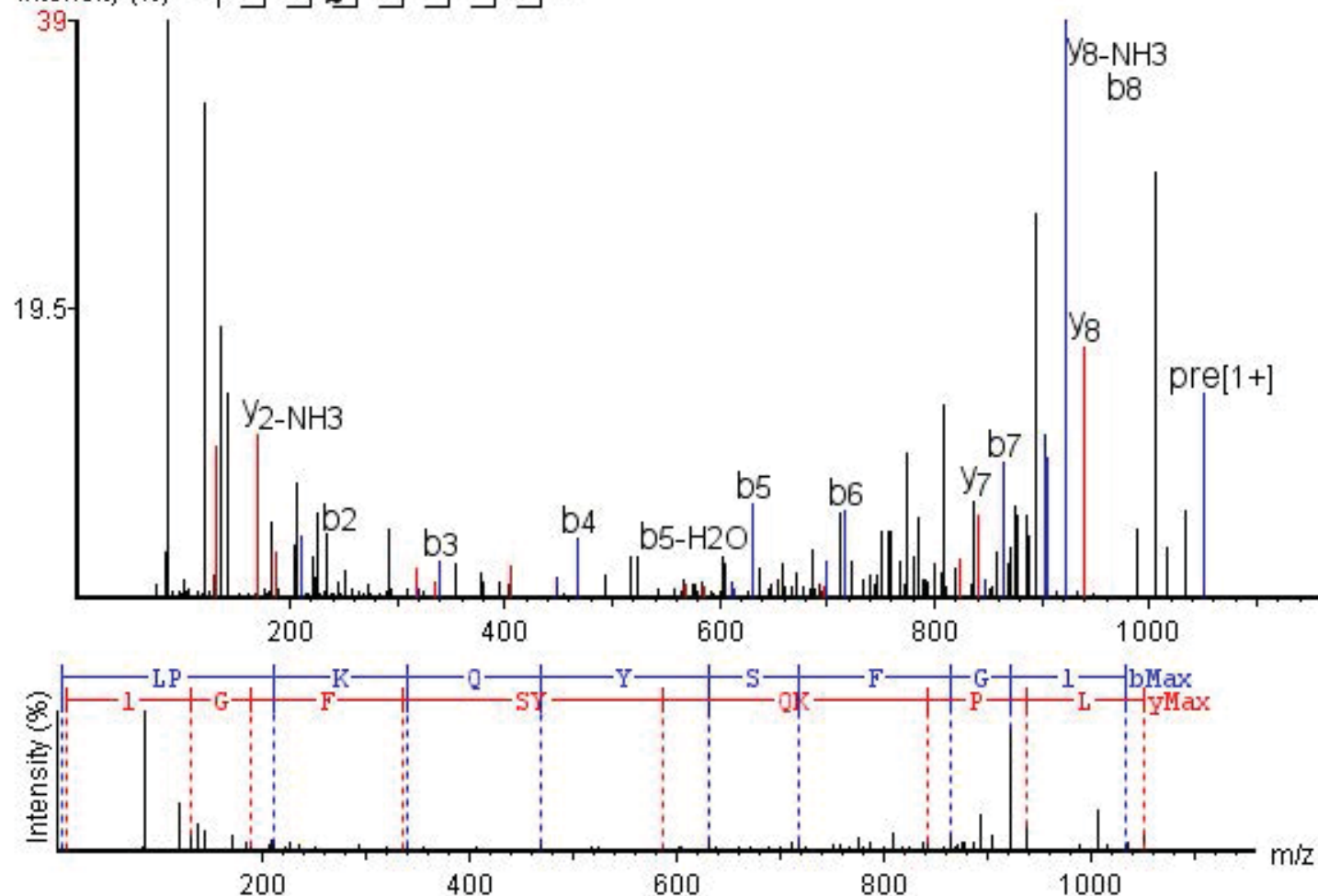




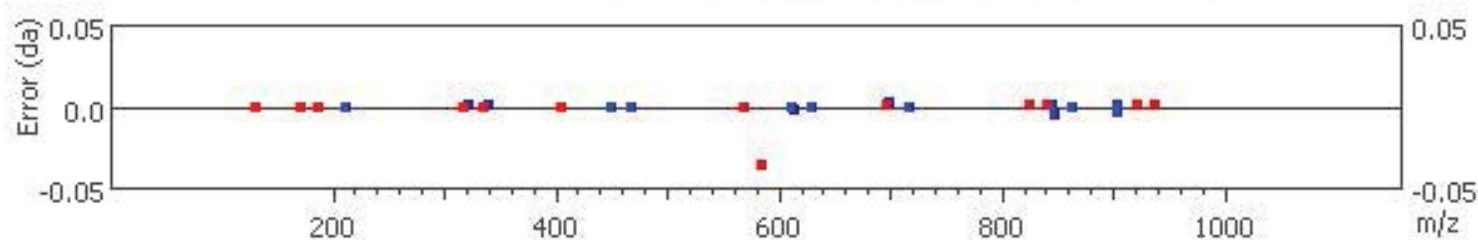
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					22
2	211.14	193.13	194.12	106.07	P	2389.26	2371.24	2372.22	1195.12	21
3	339.24	321.23	322.21	170.12	K	2292.20	2274.19	2275.17	1146.60	20
4	467.30	449.29	450.27	234.15	Q	2164.10	2146.09	2147.08	1082.55	19
5	630.36	612.35	613.33	315.68	Y	2036.04	2018.03	2019.02	1018.52	18
6	717.39	699.38	700.37	359.20	S	1872.98	1854.97	1855.95	936.99	17
7	864.46	846.45	847.43	432.73	F	1785.95	1767.94	1768.93	893.49	16
8	921.48	903.48	904.46	461.25	G	1638.88	1620.87	1621.85	819.94	15
9	1034.56	1016.56	1017.54	517.78	L	1581.86	1563.85	1564.83	791.43	14
10	1091.59	1073.58	1074.56	546.29	G	1468.77	1450.76	1451.75	734.89	13
11	1219.68	1201.67	1202.66	610.34	K	1411.75	1393.74	1394.72	706.38	12
12	1375.78	1357.77	1358.76	688.39	R	1283.66	1265.65	1266.63	642.33	11
13	1472.84	1454.83	1455.81	736.92	P	1127.56	1109.54	1110.53	564.28	10
14	1601.88	1583.87	1584.85	801.44	E	1030.50	1012.49	1013.48	515.75	9
15	1658.90	1640.89	1641.87	829.95	G	901.46	883.45	884.43	451.23	8
16	1787.00	1768.99	1769.97	893.98	K	844.44	826.43	827.41	422.72	7
17	1918.03	1900.03	1901.01	959.52	M	716.34	698.33	699.32	358.67	6
18	2081.09	2063.09	2064.07	1041.05	Y	585.30	567.29	568.28	293.15	5
19	2168.13	2150.12	2151.11	1084.57	S	422.24	404.23	405.21	211.62	4
20	2315.20	2297.19	2298.17	1158.10	F	335.21	317.20	318.18	168.10	3
21	2372.22	2354.21	2355.20	1186.61	G	188.14	170.13	171.11	94.57	2
22					L(-.98)	131.12	113.11	114.09	66.06	1

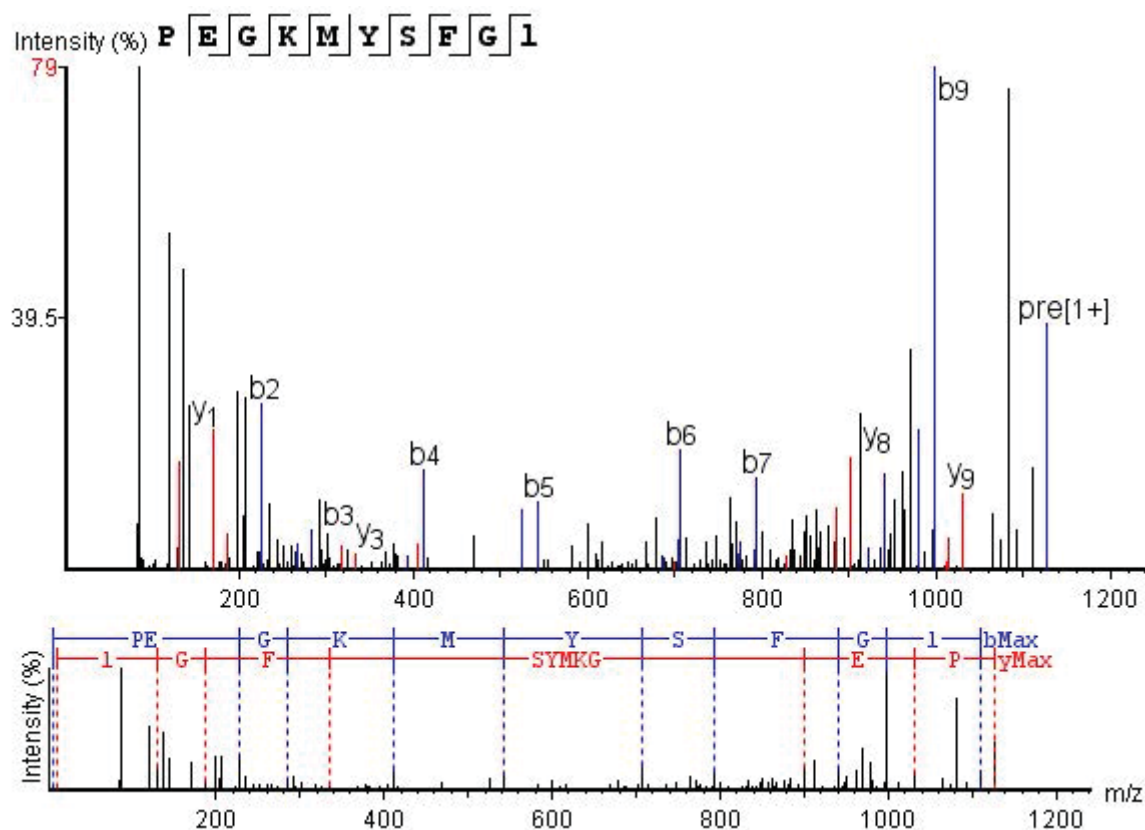


Intensity (%) **L** **P** **K** **Q** **Y** **S** **F** **G** **1**

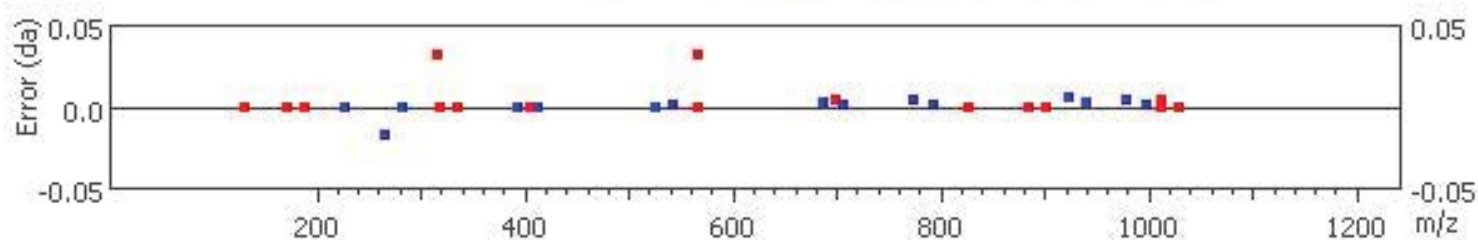


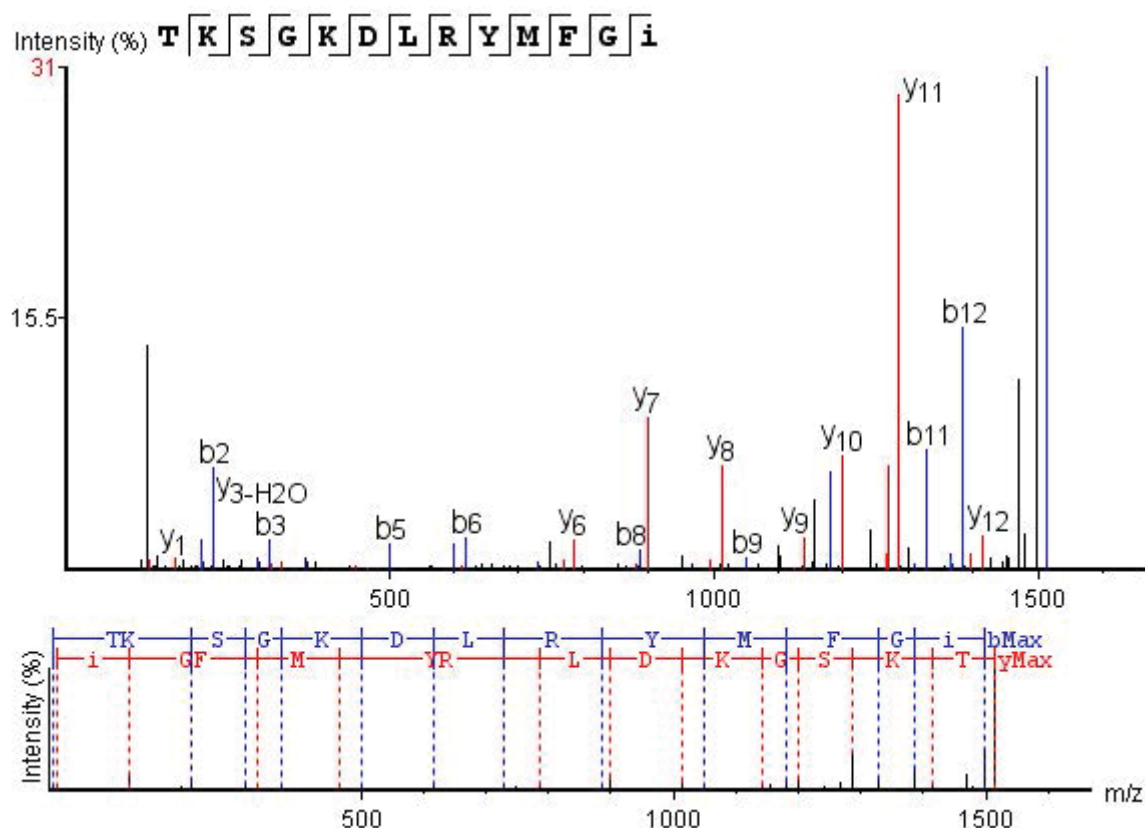
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	114.09	96.08	97.06	57.55	L					9
2	211.14	193.13	194.12	106.07	P	938.51	920.50	921.48	469.75	8
3	339.24	321.23	322.21	170.12	K	841.45	823.45	824.43	421.23	7
4	467.30	449.29	450.27	234.15	Q	713.36	695.35	696.33	357.18	6
5	630.36	612.35	613.34	315.68	Y	585.34	567.29	568.28	293.15	5
6	717.39	699.38	700.37	359.20	S	422.24	404.23	405.21	211.62	4
7	864.46	846.45	847.44	432.73	F	335.21	317.20	318.18	168.10	3
8	921.48	903.47	904.46	461.24	G	188.14	170.13	171.11	94.57	2
9					L(-98)	131.12	113.11	114.09	66.06	1



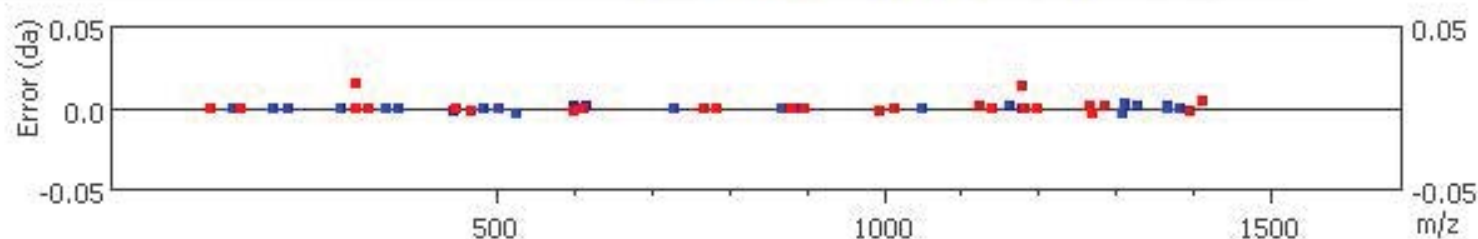


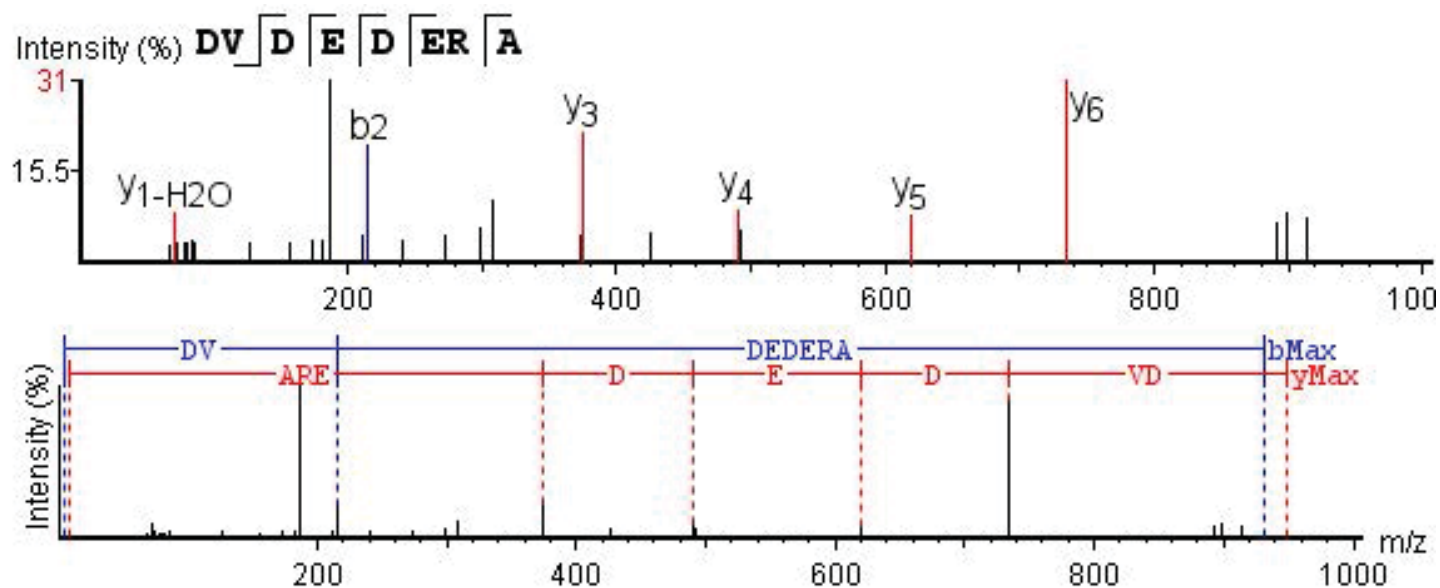
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	98.06	80.05	81.03	49.53	P					10
2	227.10	209.09	210.08	114.05	E	1030.50	1012.49	1013.48	515.75	9
3	284.12	266.11	267.12	142.56	G	901.46	883.45	884.43	451.23	8
4	412.22	394.21	395.19	206.61	K	844.44	826.43	827.41	422.72	7
5	543.26	525.25	526.23	272.13	M	716.34	698.33	699.31	358.67	6
6	706.32	688.31	689.30	353.66	Y	585.30	567.26	568.27	293.15	5
7	793.35	775.34	776.33	397.18	S	422.24	404.23	405.21	211.62	4
8	940.42	922.41	923.40	470.71	F	335.21	317.16	318.18	168.10	3
9	997.44	979.43	980.42	499.22	G	188.14	170.13	171.11	94.57	2
10					L(-98)	131.12	113.11	114.09	66.06	1



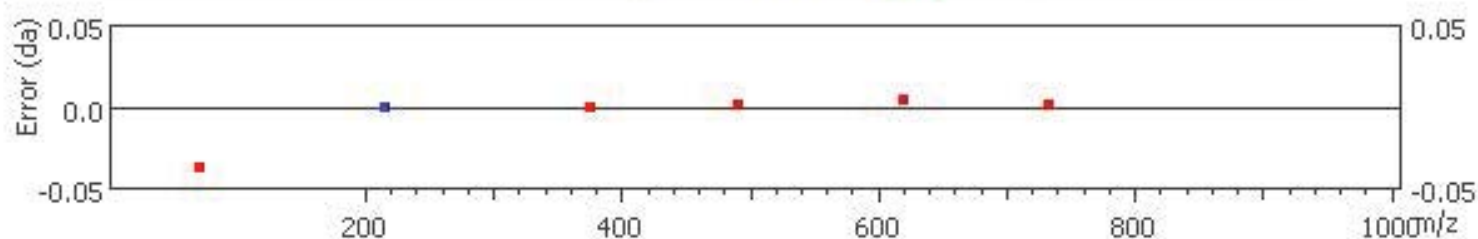


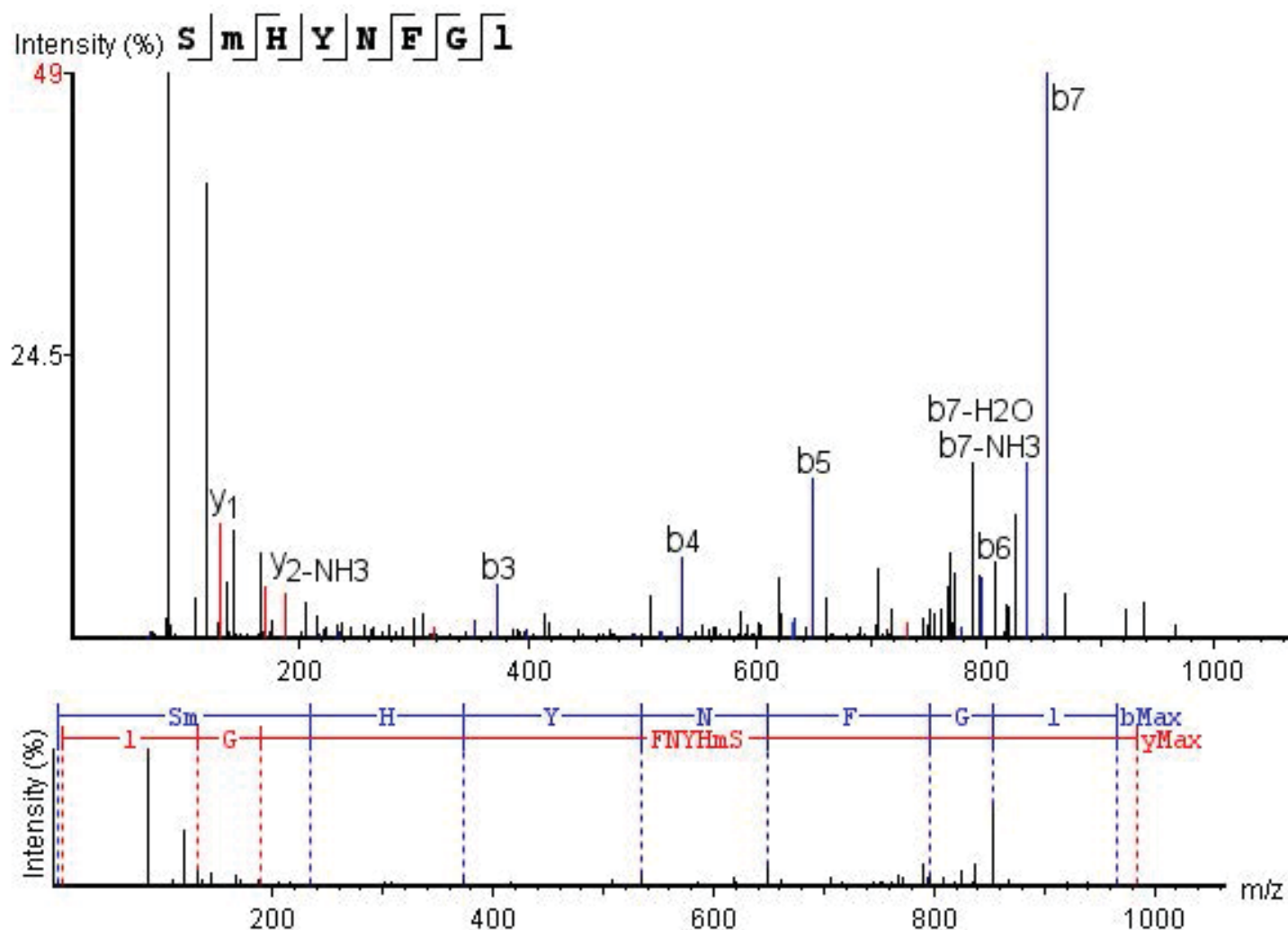
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.04	85.03	51.53	T					13
2	230.15	212.14	213.12	115.58	K	1413.76	1395.76	1396.74	707.38	12
3	317.18	299.17	300.16	159.09	S	1285.67	1267.66	1268.65	643.34	11
4	374.20	356.19	357.18	187.60	G	1198.64	1180.62	1181.61	599.82	10
5	502.30	484.29	485.27	251.65	K	1141.62	1123.61	1124.59	571.31	9
6	617.32	599.31	600.30	309.16	D	1013.52	995.51	996.50	507.26	8
7	730.41	712.40	713.38	365.70	L	898.50	880.49	881.47	449.75	7
8	886.51	868.50	869.48	443.76	R	785.41	767.40	768.39	393.21	6
9	1049.57	1031.56	1032.55	525.29	Y	629.31	611.30	612.28	315.16	5
10	1180.62	1162.60	1163.59	590.81	M	466.25	448.24	449.22	233.62	4
11	1327.68	1309.68	1310.65	664.34	F	335.21	317.18	318.18	168.10	3
12	1384.70	1366.69	1367.68	692.85	G	188.14	170.13	171.11	94.57	2
13					I(-.98)	131.12	113.11	114.09	66.06	1



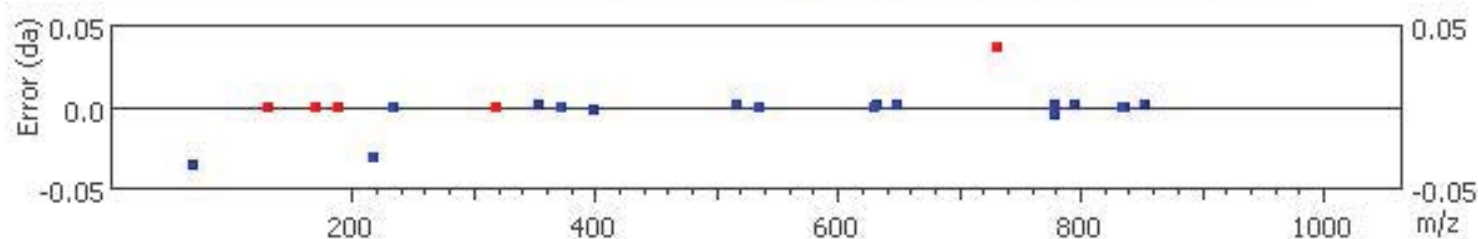


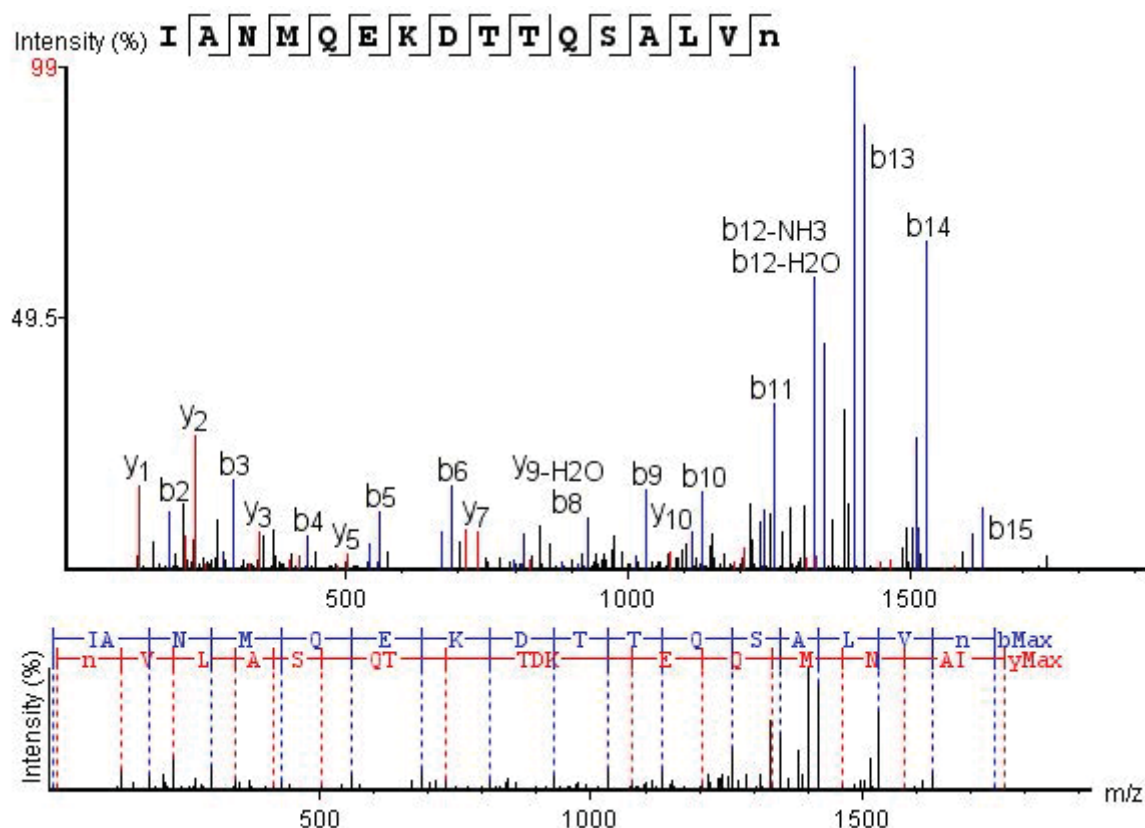
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					8
2	215.10	197.09	198.08	108.05	V	833.36	815.35	816.34	417.18	7
3	330.13	312.12	313.10	165.57	D	734.29	716.28	717.27	367.65	6
4	459.17	441.16	442.15	230.09	E	619.26	601.26	602.24	310.13	5
5	574.20	556.19	557.17	287.60	D	490.22	472.21	473.20	245.61	4
6	703.24	685.23	686.22	352.12	E	375.20	357.19	358.17	188.10	3
7	859.34	841.33	842.32	430.17	R	246.16	228.15	229.13	123.58	2
8					A	90.05	72.08	73.03	45.53	1



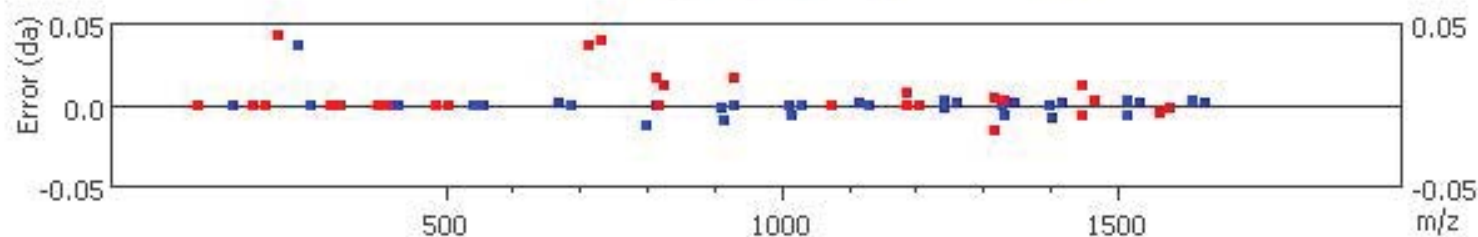


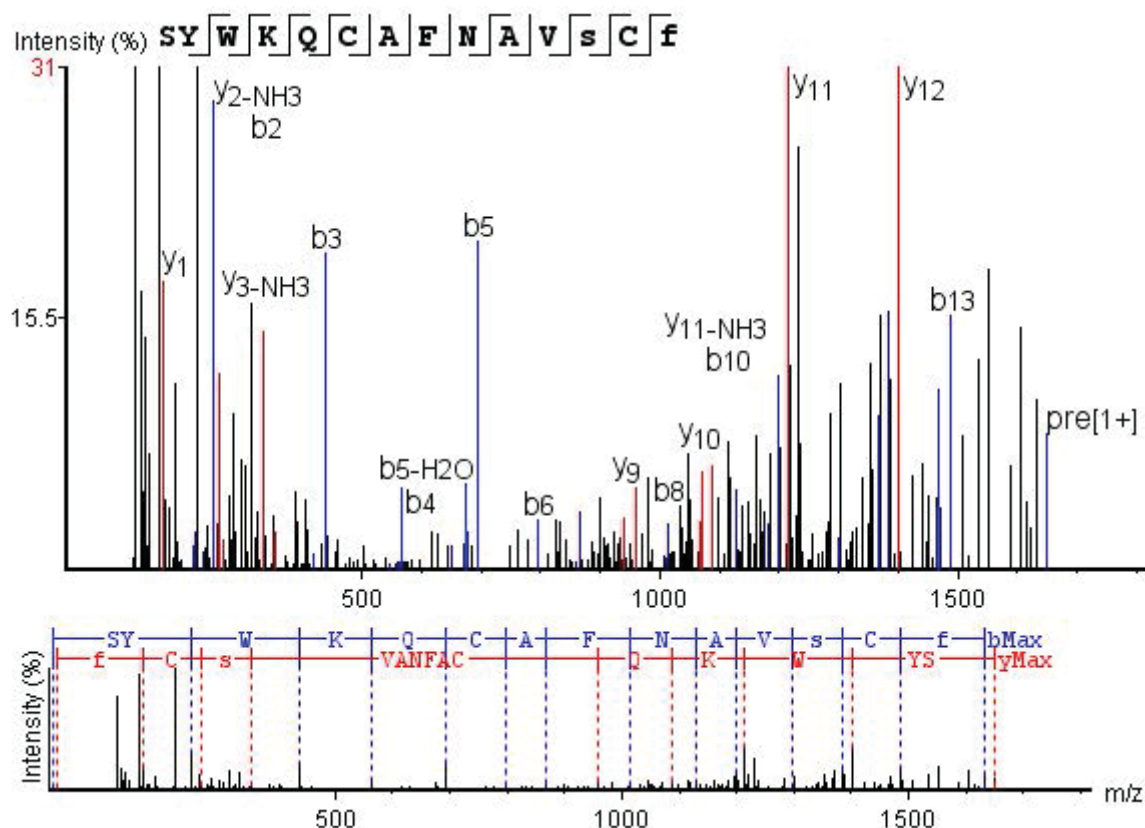
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.07	71.01	44.52	S					8
2	235.07	217.10	218.05	118.04	M(+15.99)	896.41	878.40	879.38	448.70	7
3	372.13	354.12	355.11	186.57	H	749.37	731.36	732.31	375.19	6
4	535.20	517.18	518.17	268.10	Y	612.31	594.30	595.29	306.66	5
5	649.24	631.23	632.21	325.12	N	449.25	431.24	432.22	225.13	4
6	796.31	778.30	779.29	398.66	F	335.21	317.20	318.18	168.10	3
7	853.33	835.32	836.30	427.17	G	188.14	170.13	171.11	94.57	2
8					L(-.98)	131.12	113.11	114.09	66.06	1



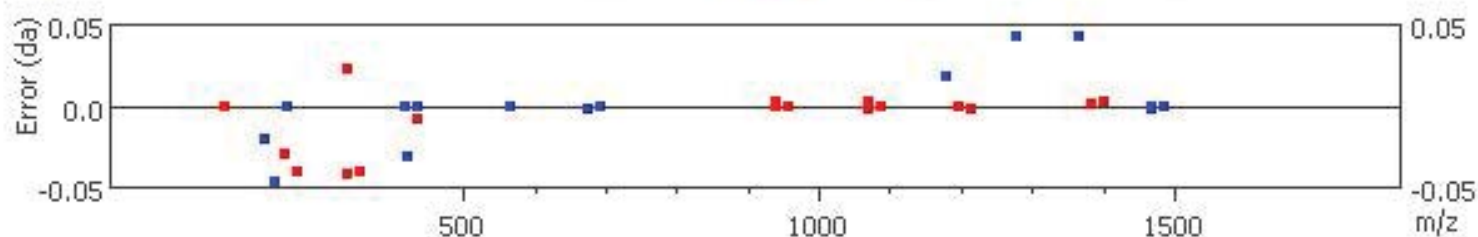


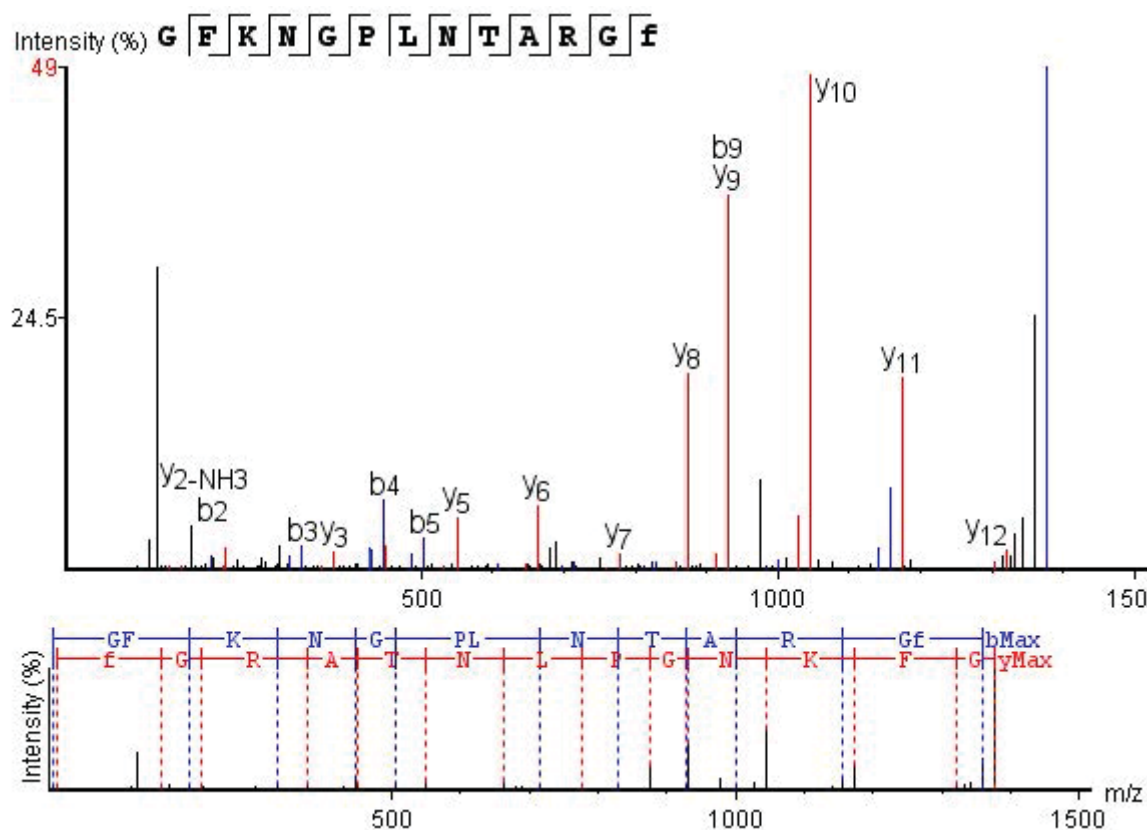
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	I					16
2	185.13	167.12	168.10	93.06	A	1649.78	1631.77	1632.75	825.38	15
3	299.17	281.16	282.11	150.09	N	1578.74	1560.73	1561.72	789.87	14
4	430.21	412.20	413.18	215.61	M	1464.70	1446.68	1447.68	732.85	13
5	558.27	540.26	541.24	279.64	Q	1333.66	1315.64	1316.65	667.33	12
6	687.31	669.30	670.28	344.16	E	1205.60	1187.58	1188.57	603.30	11
7	815.41	797.40	798.40	408.20	K	1076.56	1058.55	1059.53	538.78	10
8	930.43	912.43	913.42	465.72	D	948.46	930.43	931.44	474.73	9
9	1031.48	1013.47	1014.46	516.24	T	833.44	815.41	816.41	417.22	8
10	1132.53	1114.52	1115.50	566.77	T	732.35	714.34	715.36	366.69	7
11	1260.59	1242.58	1243.56	630.79	Q	631.34	613.33	614.31	316.17	6
12	1347.62	1329.61	1330.60	674.31	S	503.28	485.27	486.25	252.10	5
13	1418.66	1400.65	1401.64	709.83	A	416.25	398.24	399.22	208.63	4
14	1531.74	1513.73	1514.72	766.37	L	345.21	327.20	328.19	173.11	3
15	1630.81	1612.80	1613.78	815.91	V	232.13	214.12	215.10	116.56	2
16					N(.00)	133.06	115.05	116.03	67.03	1



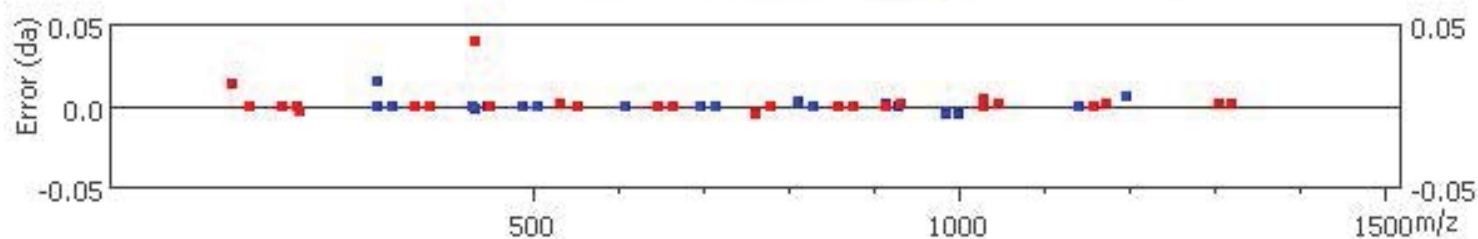


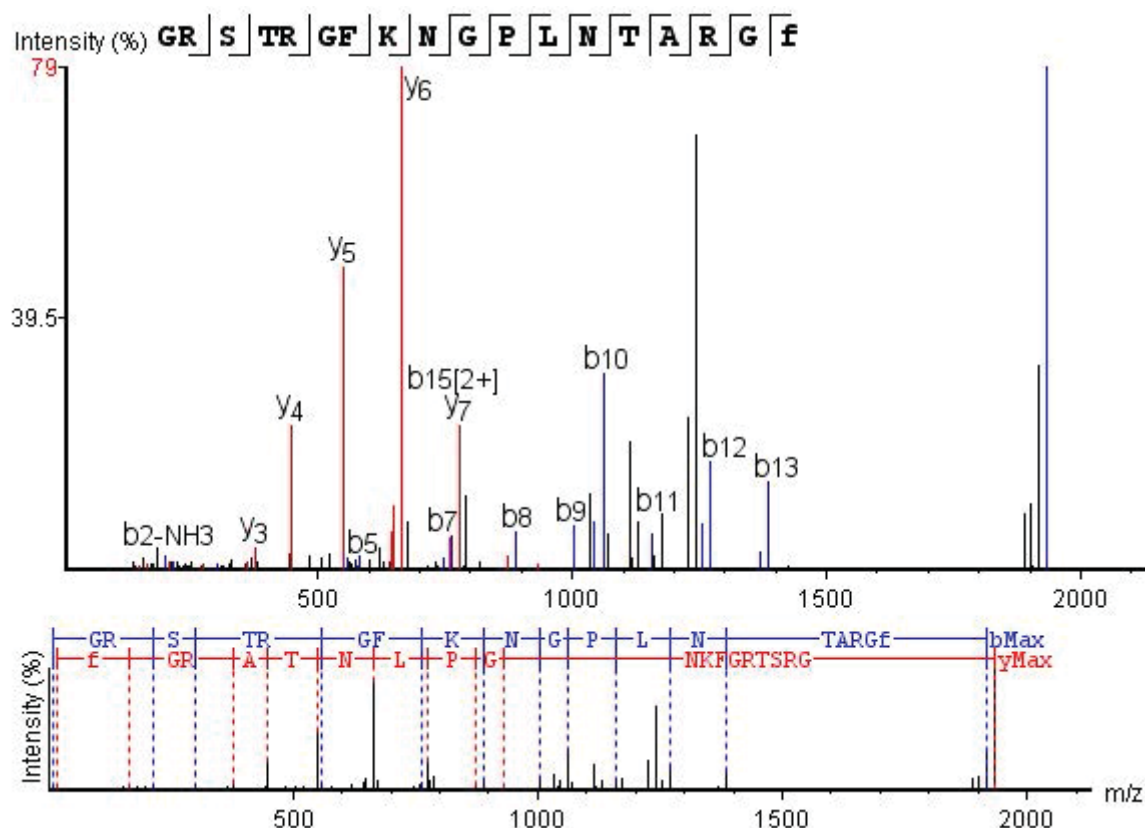
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					14
2	251.10	233.09	234.12	126.05	Y	1563.69	1545.68	1546.66	782.34	13
3	437.18	419.17	420.19	219.11	W	1400.62	1382.61	1383.59	700.81	12
4	565.28	547.27	548.25	283.14	K	1214.55	1196.53	1197.52	607.77	11
5	693.33	675.33	676.31	347.17	Q	1086.45	1068.43	1069.43	543.72	10
6	795.34	777.33	778.31	398.17	C(-1.01)	958.39	940.38	941.36	479.70	9
7	866.37	848.36	849.35	433.69	A	856.39	838.38	839.36	428.69	8
8	1013.44	995.43	996.42	507.22	F	785.35	767.34	768.33	393.18	7
9	1127.49	1109.48	1110.46	564.24	N	638.28	620.27	621.26	319.64	6
10	1198.52	1180.49	1181.50	599.76	A	524.24	506.23	507.21	262.62	5
11	1297.59	1279.54	1280.56	649.30	V	453.20	435.20	436.18	227.10	4
12	1384.62	1366.57	1367.60	692.81	S	354.18	336.10	337.15	177.57	3
13	1486.63	1468.61	1469.60	743.81	C(-1.01)	267.14	249.12	250.08	134.05	2
14					F(-.98)	165.10	147.09	148.08	83.05	1



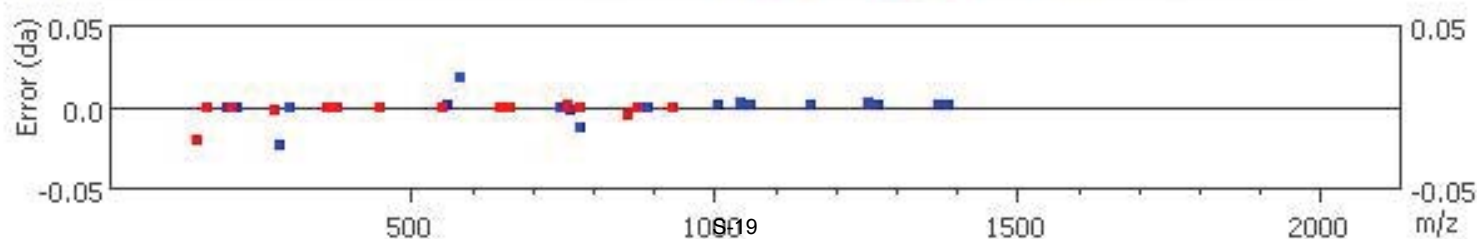


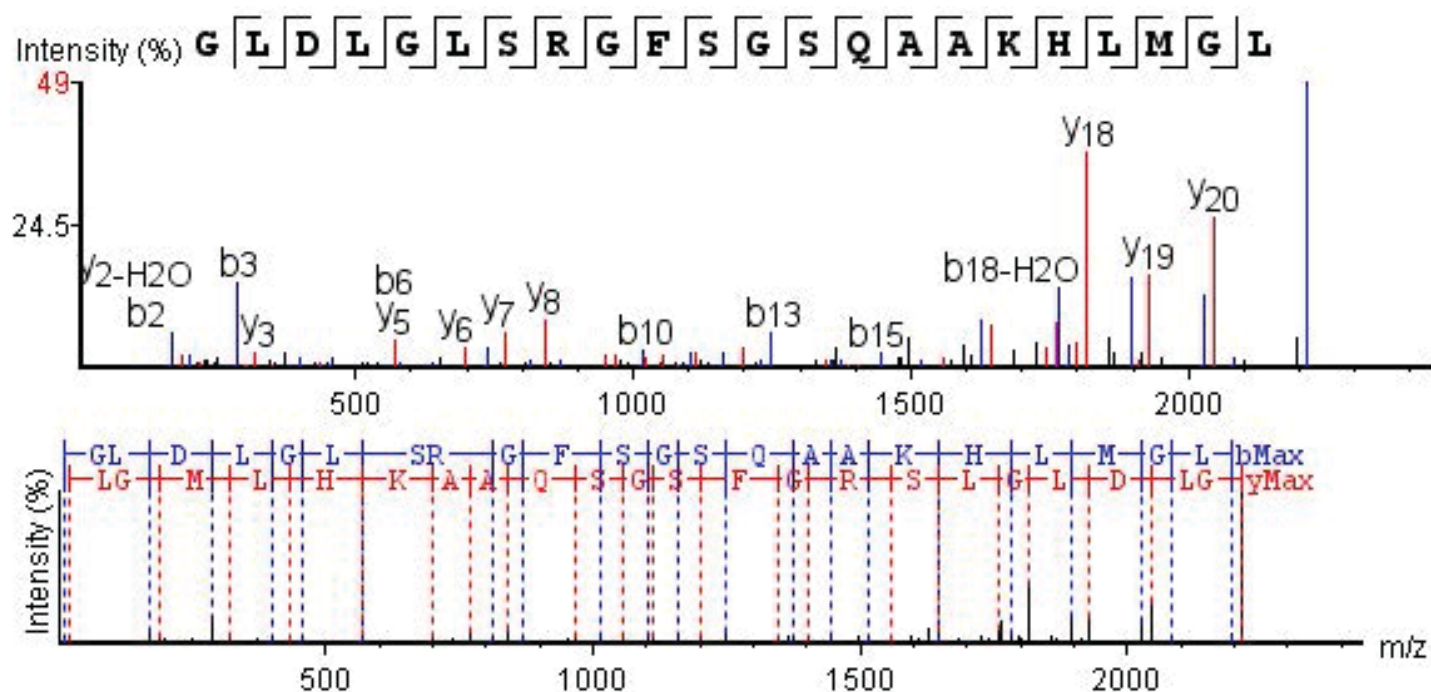
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					13
2	205.10	187.09	188.07	103.05	F	1320.71	1302.71	1303.69	660.86	12
3	333.19	315.18	316.15	167.10	K	1173.65	1155.64	1156.62	587.32	11
4	447.23	429.22	430.21	224.12	N	1045.55	1027.54	1028.53	523.28	10
5	504.26	486.25	487.23	252.63	G	931.51	913.50	914.48	466.26	9
6	601.31	583.30	584.28	301.15	P	874.49	856.48	857.46	437.74	8
7	714.39	696.38	697.37	357.70	L	777.44	759.43	760.41	389.22	7
8	828.44	810.43	811.41	414.72	N	664.35	646.34	647.32	332.68	6
9	929.49	911.47	912.45	465.24	T	550.31	532.30	533.28	275.65	5
10	1000.53	982.51	983.50	500.76	A	449.26	431.21	432.23	225.13	4
11	1156.62	1138.61	1139.60	578.81	R	378.22	360.21	361.20	189.61	3
12	1213.64	1195.63	1196.61	607.32	G	222.12	204.11	205.10	111.56	2
13					F(-98)	165.10	147.08	148.08	83.05	1



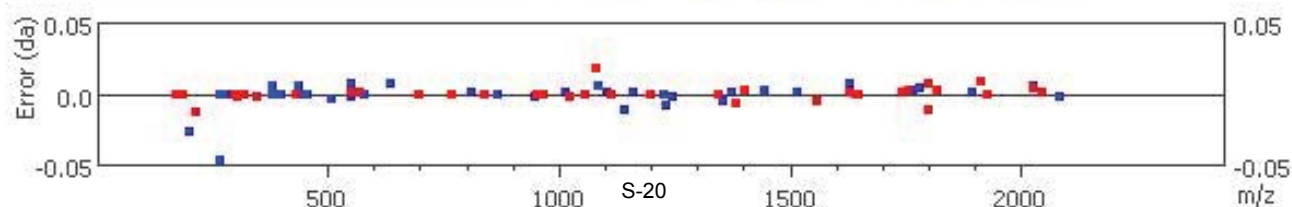


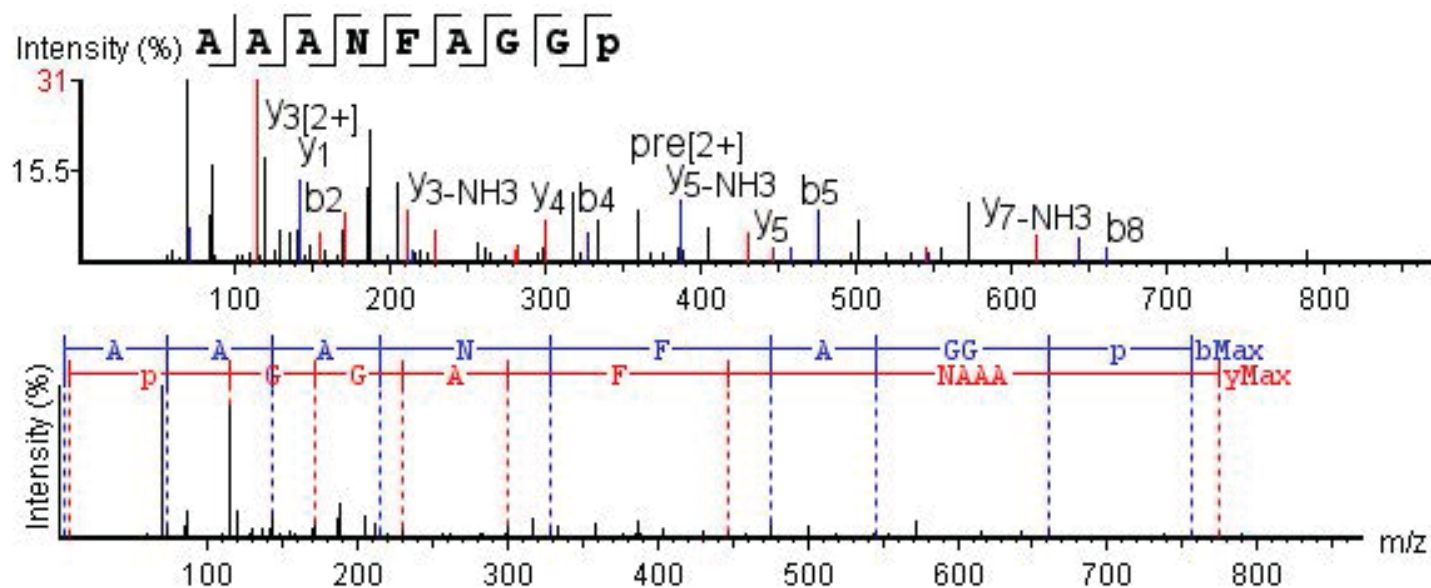
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					18
2	214.13	196.12	197.10	107.57	R	1878.02	1860.01	1860.99	939.51	17
3	301.16	283.15	284.16	151.08	S	1721.92	1703.91	1704.89	861.46	16
4	402.21	384.20	385.18	201.61	T	1634.89	1616.88	1617.86	817.94	15
5	558.31	540.30	541.28	279.66	R	1533.84	1515.83	1516.81	767.42	14
6	615.33	597.32	598.31	308.17	G	1377.74	1359.73	1360.71	689.37	13
7	762.40	744.39	745.37	381.70	F	1320.72	1302.71	1303.69	660.86	12
8	890.49	872.49	873.47	445.75	K	1173.65	1155.64	1156.62	587.32	11
9	1004.54	986.53	987.51	502.77	N	1045.55	1027.54	1028.53	523.28	10
10	1061.56	1043.55	1044.53	531.28	G	931.51	913.50	914.48	466.26	9
11	1158.61	1140.60	1141.59	579.79	P	874.49	856.48	857.47	437.74	8
12	1271.69	1253.68	1254.67	636.35	L	777.44	759.42	760.41	389.22	7
13	1385.74	1367.73	1368.71	693.37	N	664.35	646.34	647.32	332.68	6
14	1486.79	1468.78	1469.76	743.89	T	550.31	532.30	533.28	275.66	5
15	1557.82	1539.81	1540.80	779.43	A	449.26	431.25	432.23	225.13	4
16	1713.93	1695.92	1696.90	857.47	R	378.22	360.21	361.20	189.61	3
17	1770.95	1752.94	1753.92	885.97	G	222.12	204.11	205.10	111.56	2
18					F(-.98)	165.10	147.11	148.08	83.05	1



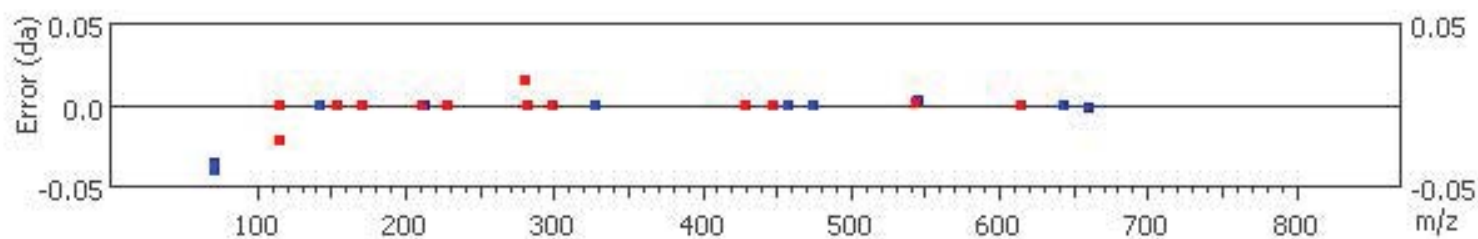


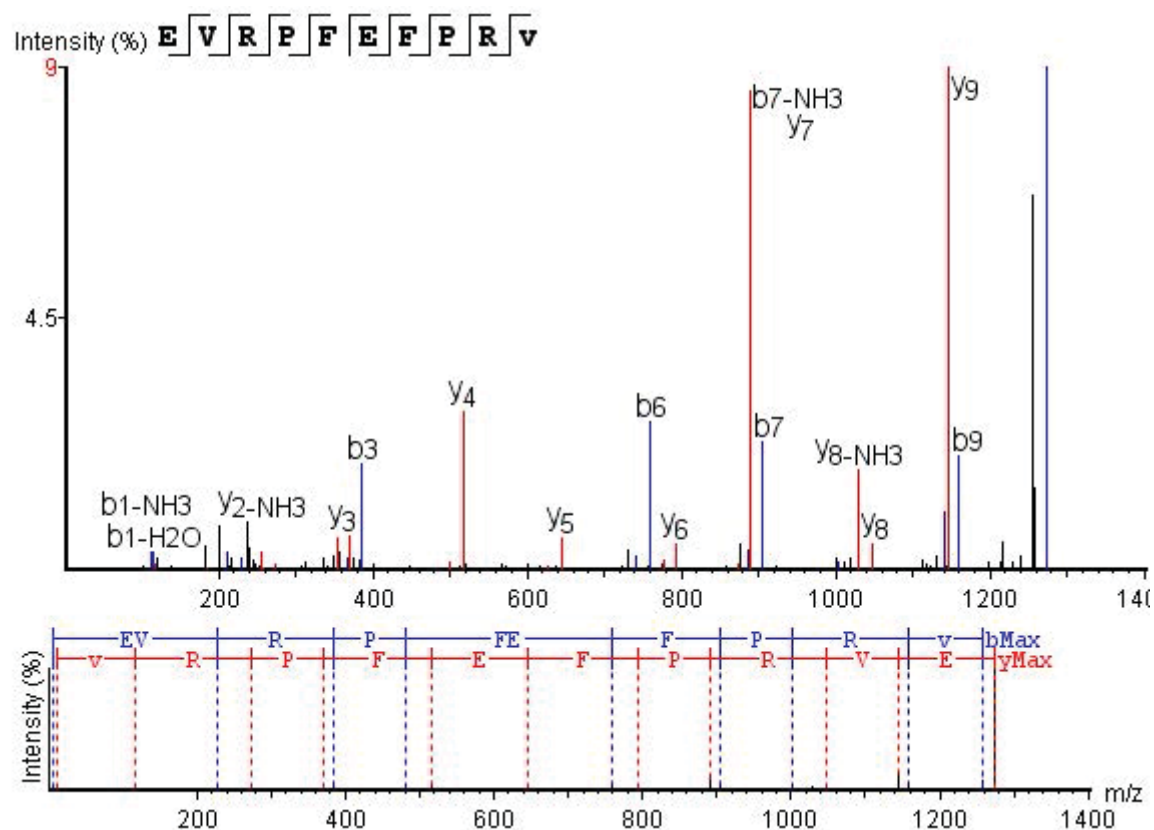
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					22
2	171.11	153.10	154.09	86.06	L	2158.14	2140.13	2141.12	1079.55	21
3	286.14	268.13	269.16	143.57	D	2045.06	2027.04	2028.03	1023.03	20
4	399.22	381.21	382.19	200.14	L	1930.03	1912.01	1913.01	965.52	19
5	456.24	438.23	439.21	228.62	G	1816.95	1798.93	1799.93	908.97	18
6	569.33	551.32	552.29	285.16	L	1759.92	1741.91	1742.90	880.46	17
7	656.36	638.34	639.33	328.68	S	1646.84	1628.83	1629.82	823.92	16
8	812.46	794.45	795.44	406.73	R	1559.82	1541.80	1542.78	780.41	15
9	869.49	851.47	852.46	435.24	G	1403.71	1385.71	1386.68	702.35	14
10	1016.55	998.54	999.53	508.78	F	1346.69	1328.68	1329.66	673.84	13
11	1103.58	1085.57	1086.56	552.29	S	1199.62	1181.61	1182.59	600.31	12
12	1160.60	1142.60	1143.59	580.80	G	1112.59	1094.58	1095.56	556.79	11
13	1247.64	1229.63	1230.62	624.32	S	1055.57	1037.56	1038.54	528.28	10
14	1375.69	1357.69	1358.67	688.35	Q	968.54	950.52	951.51	484.77	9
15	1446.73	1428.72	1429.71	723.87	A	840.48	822.47	823.45	420.74	8
16	1517.77	1499.76	1500.74	759.39	A	769.44	751.43	752.41	385.22	7
17	1645.87	1627.86	1628.83	823.43	K	698.40	680.39	681.37	349.70	6
18	1782.92	1764.91	1765.90	891.96	H	570.31	552.29	553.28	285.65	5
19	1896.01	1878.00	1878.98	948.51	L	433.25	415.24	416.22	217.14	4
20	2027.04	2009.04	2010.02	1014.02	M	320.16	302.15	303.14	160.58	3
21	2084.07	2066.06	2067.04	1042.54	G	189.12	171.11	172.10	95.06	2
22					L	132.10	114.09	115.07	66.55	1



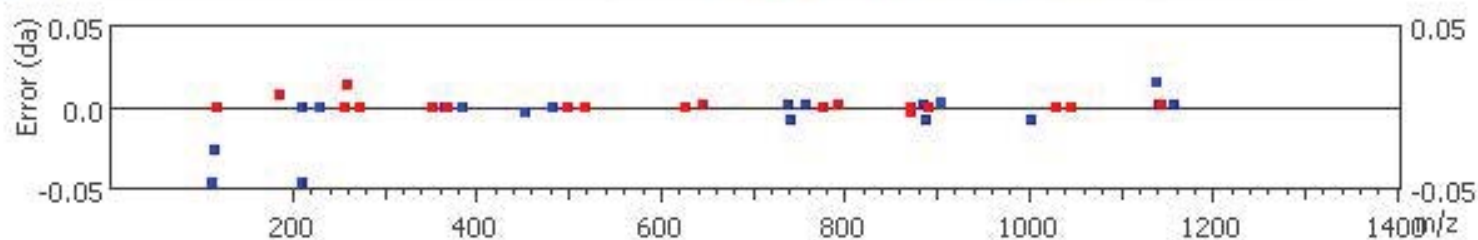


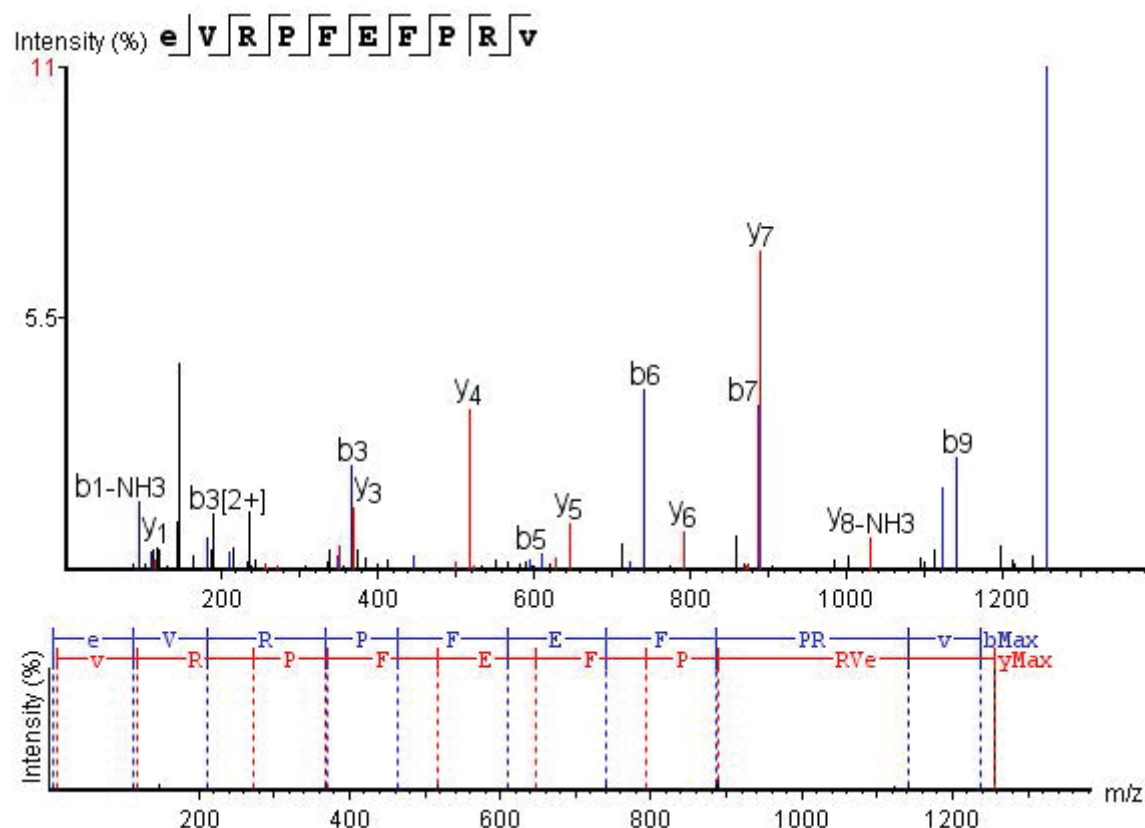
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.08	54.03	55.02	36.52	A					9
2	143.08	125.07	126.06	72.08	A	703.35	685.34	686.33	352.18	8
3	214.12	196.11	197.09	107.56	A	632.32	614.30	615.29	316.66	7
4	328.16	310.15	311.14	164.58	N	561.28	543.27	544.25	281.12	6
5	475.23	457.22	458.20	238.12	F	447.24	429.22	430.21	224.12	5
6	546.26	528.26	529.24	273.63	A	300.17	282.16	283.14	150.58	4
7	603.29	585.28	586.26	302.14	G	229.13	211.12	212.10	115.09	3
8	660.31	642.30	643.28	330.66	G	172.11	154.10	155.08	86.55	2
9					P(-.98)	115.09	97.08	98.06	58.04	1



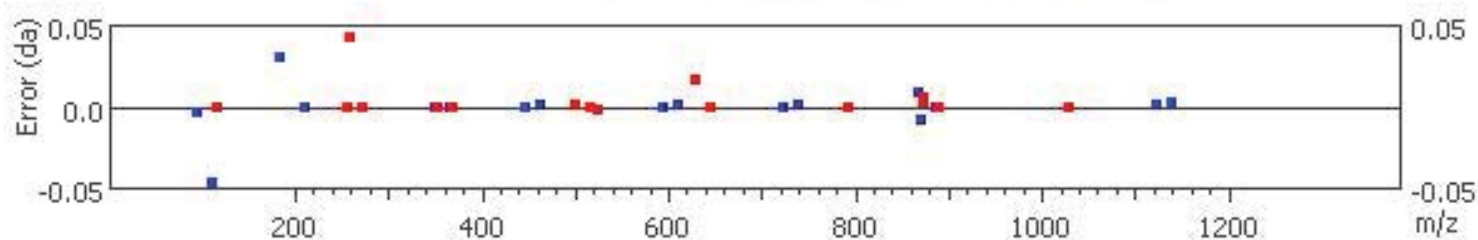


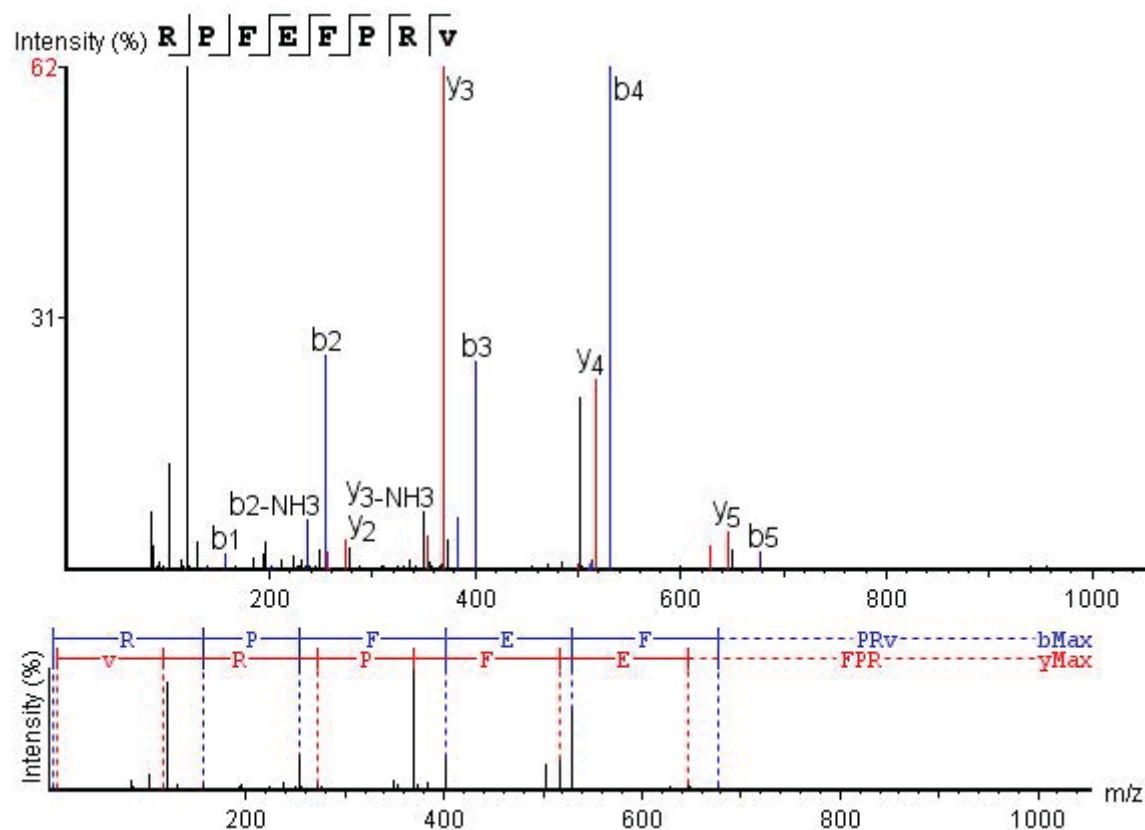
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	130.05	112.09	113.07	65.53	E					10
2	229.12	211.11	212.14	115.09	V	1145.66	1127.65	1128.63	573.33	9
3	385.22	367.21	368.19	193.11	R	1046.59	1028.58	1029.56	523.79	8
4	482.27	464.26	465.25	241.64	P	890.49	872.48	873.46	445.74	7
5	629.34	611.33	612.31	315.17	F	793.43	775.42	776.41	397.22	6
6	758.38	740.37	741.36	379.69	E	646.37	628.36	629.34	323.68	5
7	905.45	887.44	888.43	453.23	F	517.32	499.31	500.30	259.15	4
8	1002.51	984.49	985.48	501.75	P	370.26	352.25	353.23	185.62	3
9	1158.60	1140.58	1141.58	579.80	R	273.20	255.19	256.18	137.10	2
10					V(-98)	117.10	99.09	100.08	59.05	1



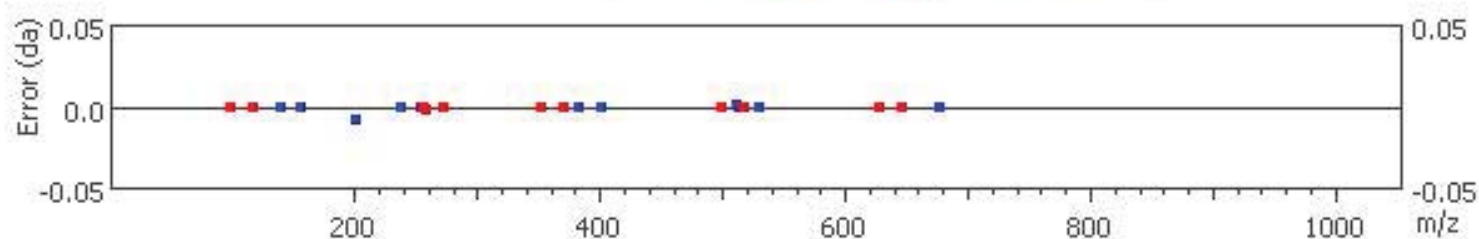


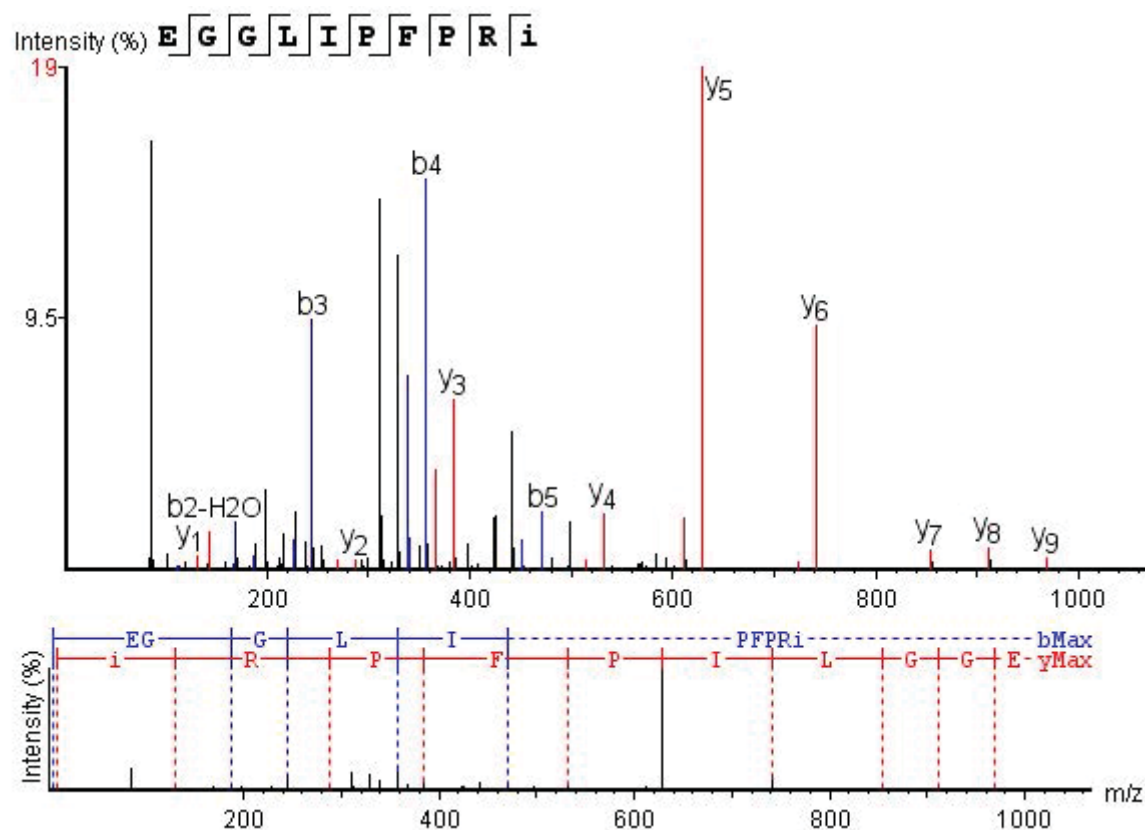
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	112.09	94.03	95.02	56.52	E(-18.01)					10
2	211.11	193.10	194.08	106.05	V	1145.66	1127.65	1128.63	573.33	9
3	367.21	349.20	350.18	184.07	R	1046.59	1028.58	1029.56	523.80	8
4	464.26	446.25	447.23	232.63	P	890.49	872.47	873.46	445.74	7
5	611.33	593.32	594.30	306.17	F	793.43	775.42	776.41	397.22	6
6	740.37	722.36	723.35	370.69	E	646.37	628.34	629.34	323.68	5
7	887.44	869.42	870.42	444.22	F	517.32	499.31	500.30	259.12	4
8	984.49	966.48	967.47	492.75	P	370.26	352.25	353.23	185.63	3
9	1140.59	1122.58	1123.57	570.80	R	273.20	255.19	256.18	137.10	2
10					V(-.98)	117.10	99.09	100.08	59.05	1



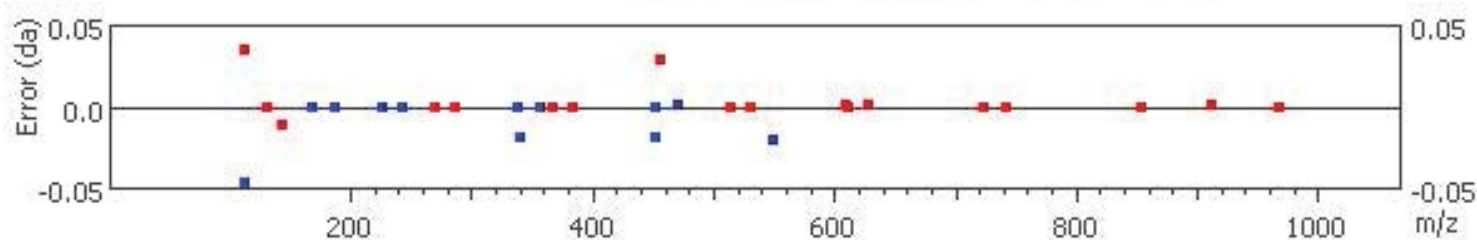


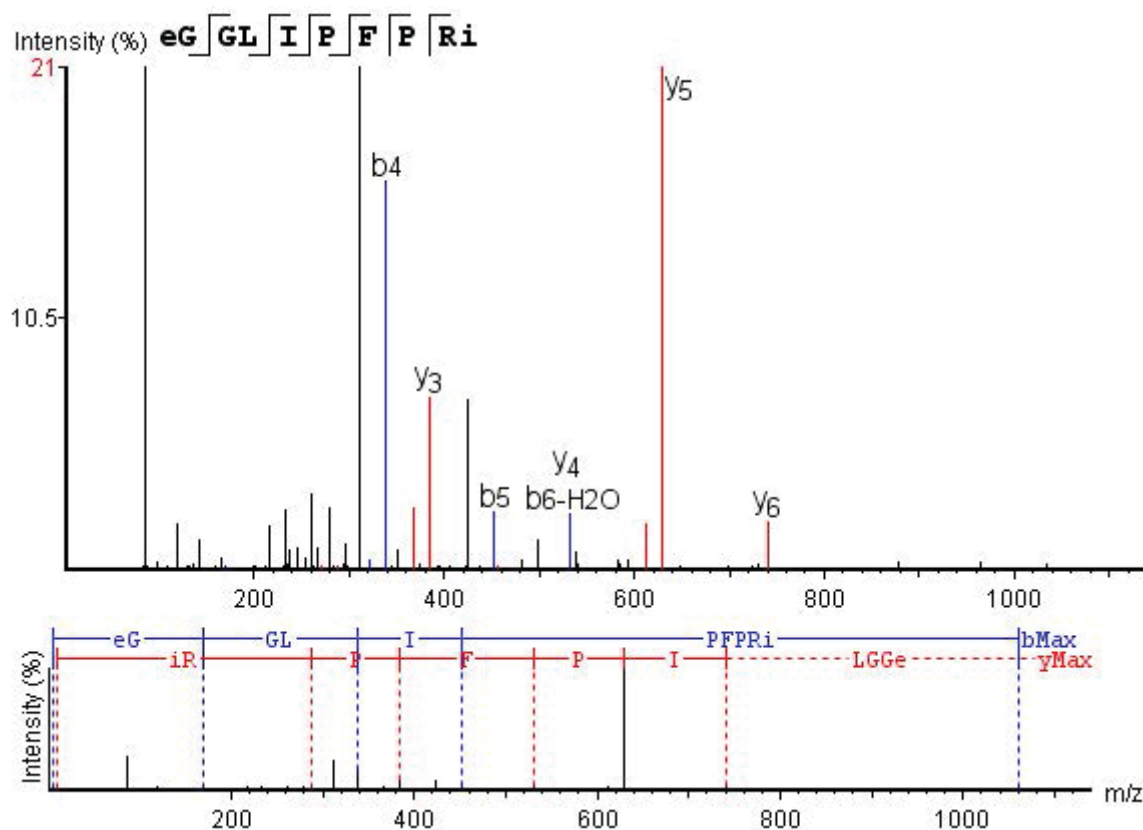
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	157.11	139.10	140.08	79.05	R					8
2	254.16	236.15	237.13	127.58	P	890.49	872.48	873.46	445.74	7
3	401.23	383.22	384.20	201.12	F	793.44	775.42	776.41	397.22	6
4	530.27	512.26	513.25	265.64	E	646.37	628.36	629.34	323.68	5
5	677.34	659.33	660.31	339.17	F	517.32	499.31	500.30	259.17	4
6	774.39	756.38	757.37	387.70	P	370.26	352.25	353.23	185.63	3
7	930.49	912.48	913.47	465.75	R	273.20	255.19	256.18	137.10	2
8					V(-.98)	117.10	99.09	100.08	59.05	1



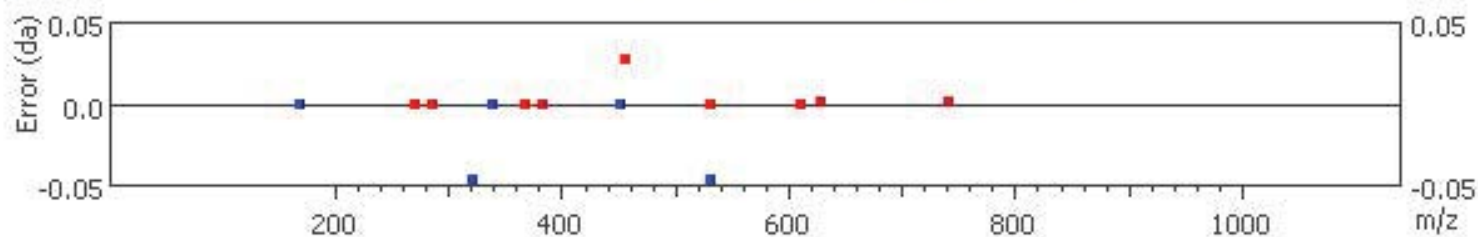


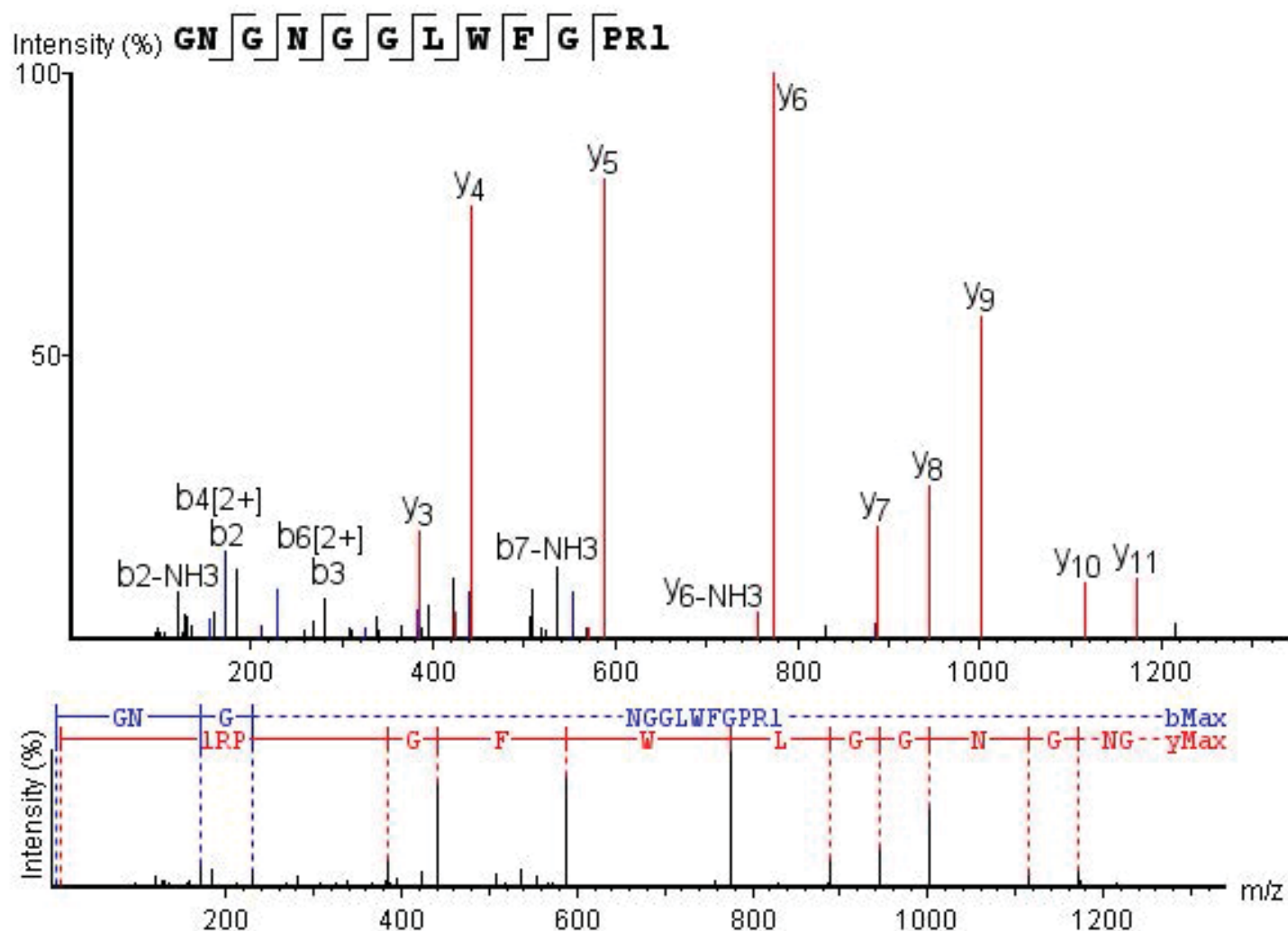
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	130.05	112.09	113.07	65.53	E					10
2	187.07	169.06	170.04	94.04	G	968.60	950.59	951.58	484.80	9
3	244.09	226.08	227.07	122.55	G	911.58	893.57	894.56	456.26	8
4	357.18	339.17	340.17	179.09	L	854.56	836.55	837.53	427.78	7
5	470.26	452.25	453.25	235.63	I	741.48	723.47	724.45	371.24	6
6	567.31	549.30	550.31	284.16	P	628.39	610.38	611.36	314.70	5
7	714.38	696.37	697.36	357.69	F	531.34	513.33	514.31	266.17	4
8	811.44	793.42	794.41	406.22	P	384.27	366.26	367.24	192.64	3
9	967.54	949.53	950.51	484.27	R	287.22	269.21	270.19	144.12	2
10					I(-98)	131.12	113.07	114.09	66.06	1



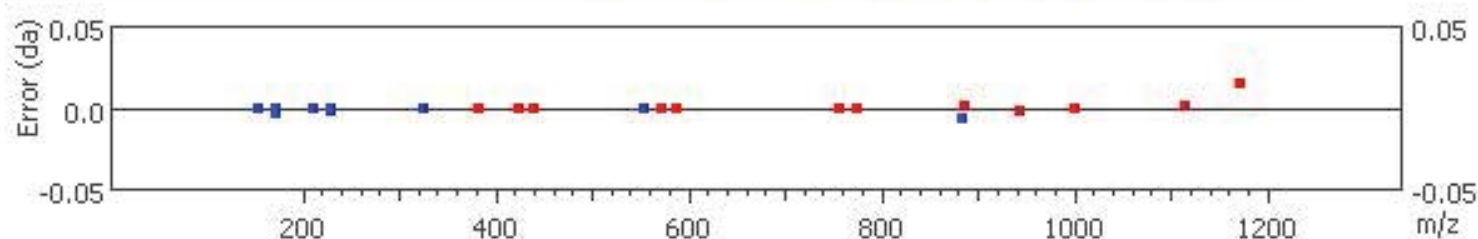


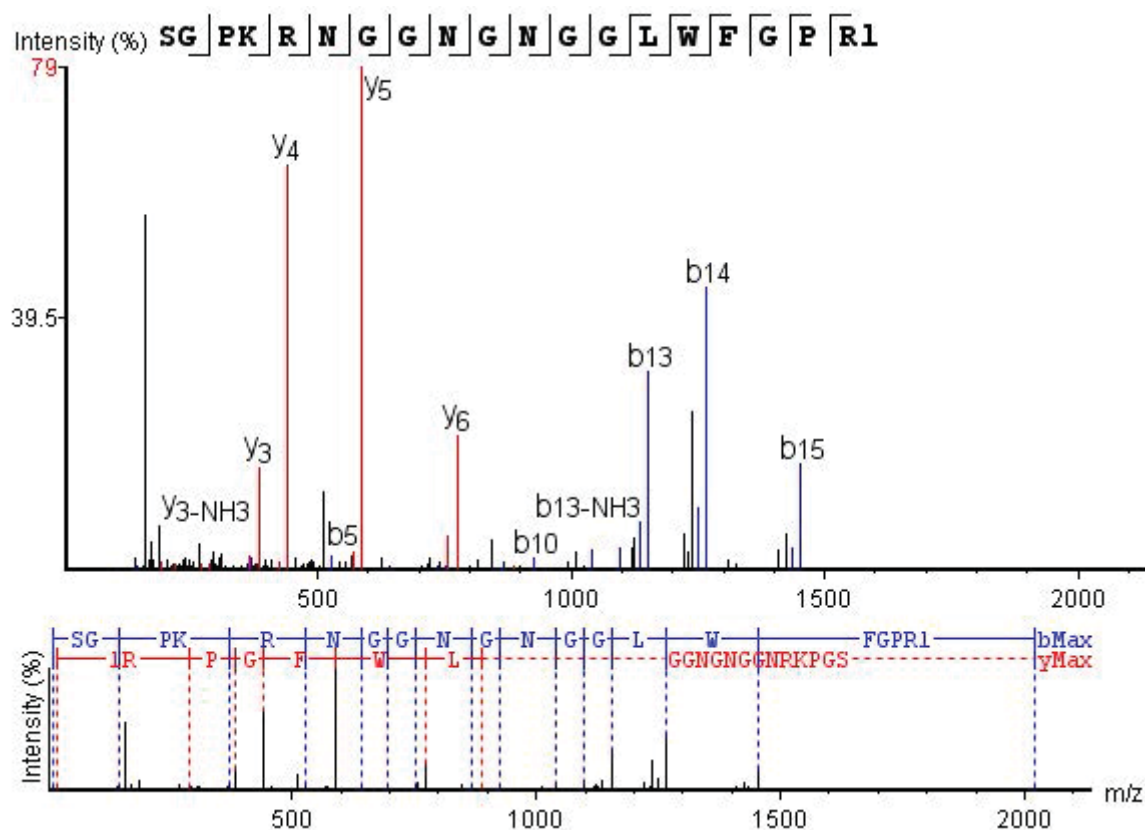
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	112.04	94.03	95.01	56.52	E(-18.01)					10
2	169.06	151.05	152.03	85.03	G	968.60	950.59	951.58	484.80	9
3	226.08	208.07	209.06	113.54	G	911.58	893.57	894.56	456.26	8
4	339.17	321.16	322.19	170.08	L	854.56	836.55	837.53	427.78	7
5	452.25	434.24	435.22	226.63	I	741.48	723.47	724.45	371.24	6
6	549.30	531.34	532.28	275.15	P	628.39	610.38	611.37	314.70	5
7	696.37	678.36	679.35	348.69	F	531.34	513.33	514.31	266.17	4
8	793.42	775.41	776.40	397.21	P	384.27	366.26	367.24	192.64	3
9	949.53	931.52	932.50	475.26	R	287.22	269.21	270.19	144.11	2
10					I(-.98)	131.12	113.11	114.09	66.06	1



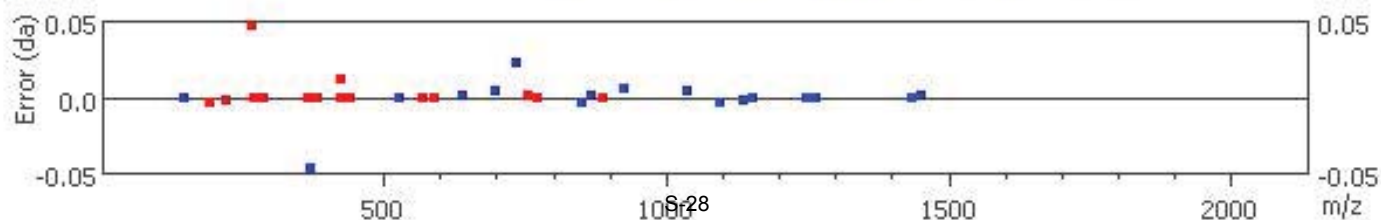


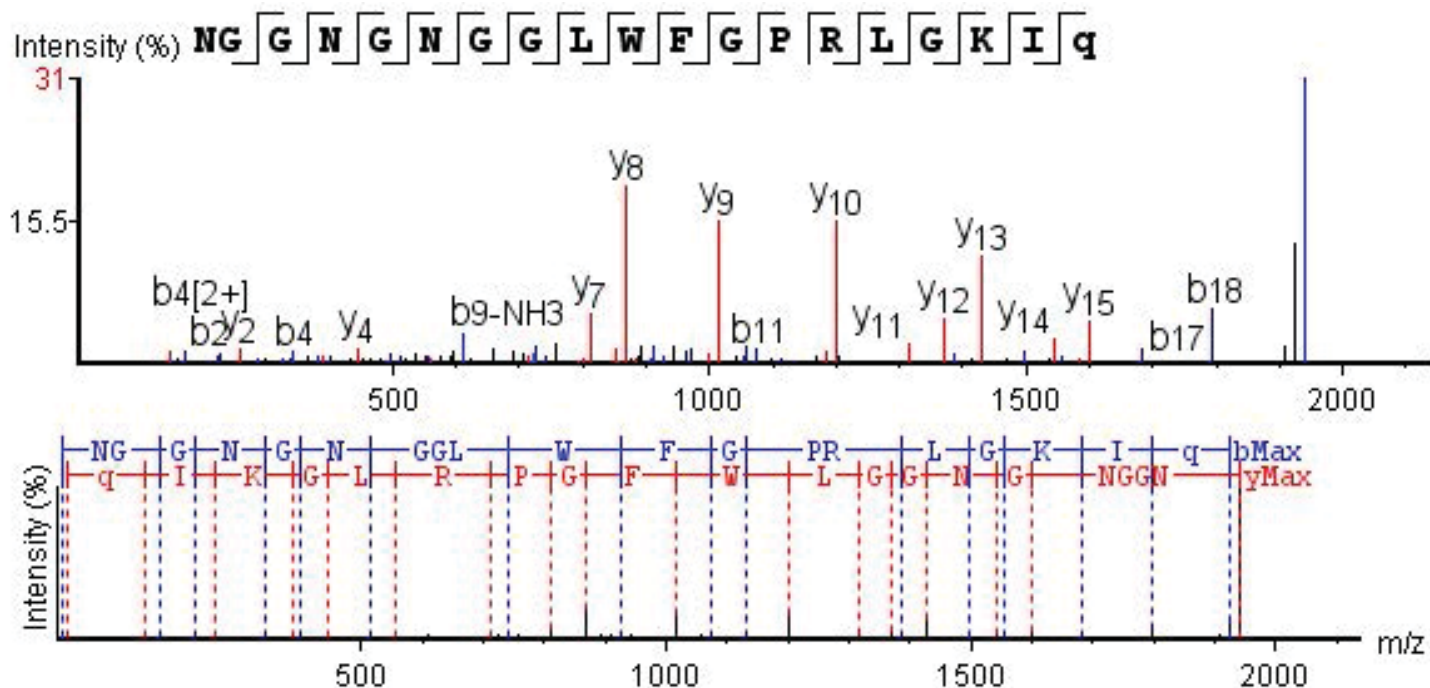
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					13
2	172.07	154.06	155.04	86.54	N	1286.68	1268.66	1269.65	643.84	12
3	229.09	211.08	212.07	115.05	G	1172.62	1154.62	1155.61	586.82	11
4	343.14	325.12	326.11	172.07	N	1115.61	1097.60	1098.58	558.31	10
5	400.16	382.15	383.13	200.58	G	1001.57	983.56	984.54	501.28	9
6	457.18	439.17	440.15	229.09	G	944.55	926.54	927.52	472.77	8
7	570.26	552.25	553.24	285.63	L	887.52	869.51	870.50	444.26	7
8	756.34	738.33	739.32	378.67	W	774.44	756.43	757.41	387.72	6
9	903.41	885.41	886.38	452.21	F	588.36	570.35	571.34	294.68	5
10	960.43	942.42	943.41	480.72	G	441.29	423.28	424.27	221.15	4
11	1057.49	1039.47	1040.46	529.24	P	384.27	366.26	367.24	192.64	3
12	1213.59	1195.58	1196.56	607.29	R	287.22	269.21	270.19	144.11	2
13					L(-98)	131.12	113.11	114.09	66.06	1



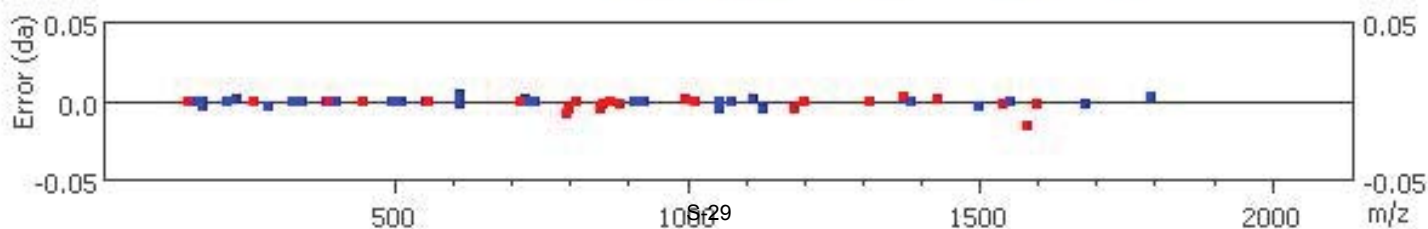


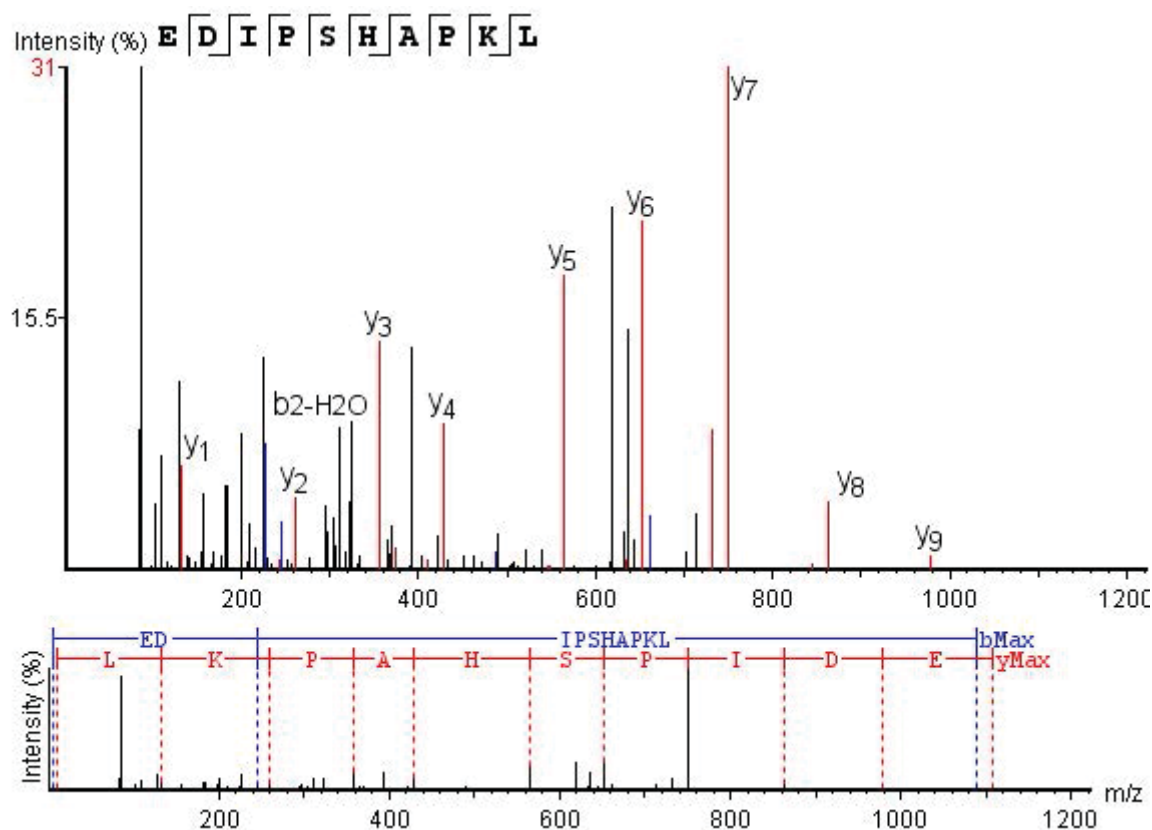
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					20
2	145.06	127.05	128.03	73.03	G	1953.03	1935.02	1936.00	977.02	19
3	242.11	224.10	225.09	121.56	P	1896.01	1878.00	1878.98	948.50	18
4	370.26	352.20	353.18	185.60	K	1798.96	1780.95	1781.93	899.98	17
5	526.31	508.30	509.28	263.66	R	1670.86	1652.85	1653.84	835.93	16
6	640.35	622.34	623.33	320.68	N	1514.76	1496.75	1497.73	757.88	15
7	697.37	679.36	680.35	349.19	G	1400.72	1382.71	1383.69	700.86	14
8	754.39	736.36	737.37	377.70	G	1343.70	1325.69	1326.67	672.35	13
9	868.44	850.43	851.42	434.72	N	1286.68	1268.66	1269.65	643.84	12
10	925.45	907.45	908.43	463.23	G	1172.63	1154.62	1155.61	586.82	11
11	1039.50	1021.49	1022.48	520.25	N	1115.61	1097.60	1098.58	558.31	10
12	1096.53	1078.51	1079.50	548.76	G	1001.57	983.56	984.54	501.28	9
13	1153.54	1135.54	1136.52	577.27	G	944.55	926.54	927.52	472.77	8
14	1266.63	1248.62	1249.60	633.82	L	887.52	869.51	870.50	444.26	7
15	1452.71	1434.70	1435.68	726.85	W	774.44	756.43	757.41	387.72	6
16	1599.78	1581.77	1582.75	800.39	F	588.36	570.35	571.33	294.68	5
17	1656.80	1638.79	1639.77	828.90	G	441.29	423.27	424.27	221.15	4
18	1753.85	1735.84	1736.83	877.43	P	384.27	366.26	367.25	192.64	3
19	1909.95	1891.94	1892.93	955.48	R	287.22	269.16	270.19	144.11	2
20					L(-.98)	131.12	113.11	114.09	66.06	1



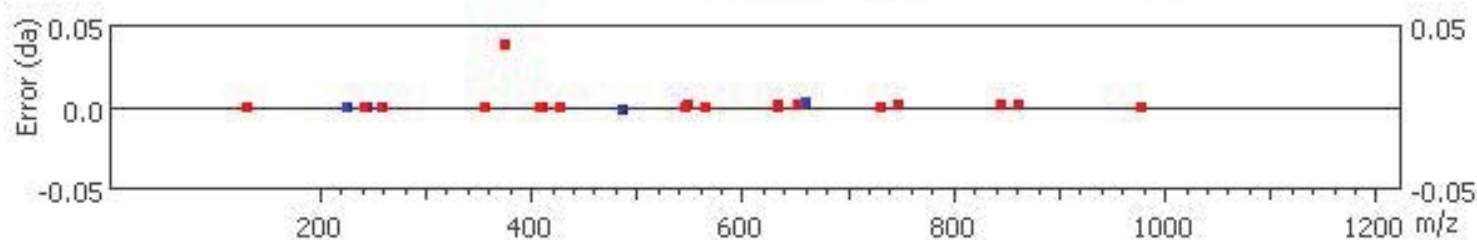


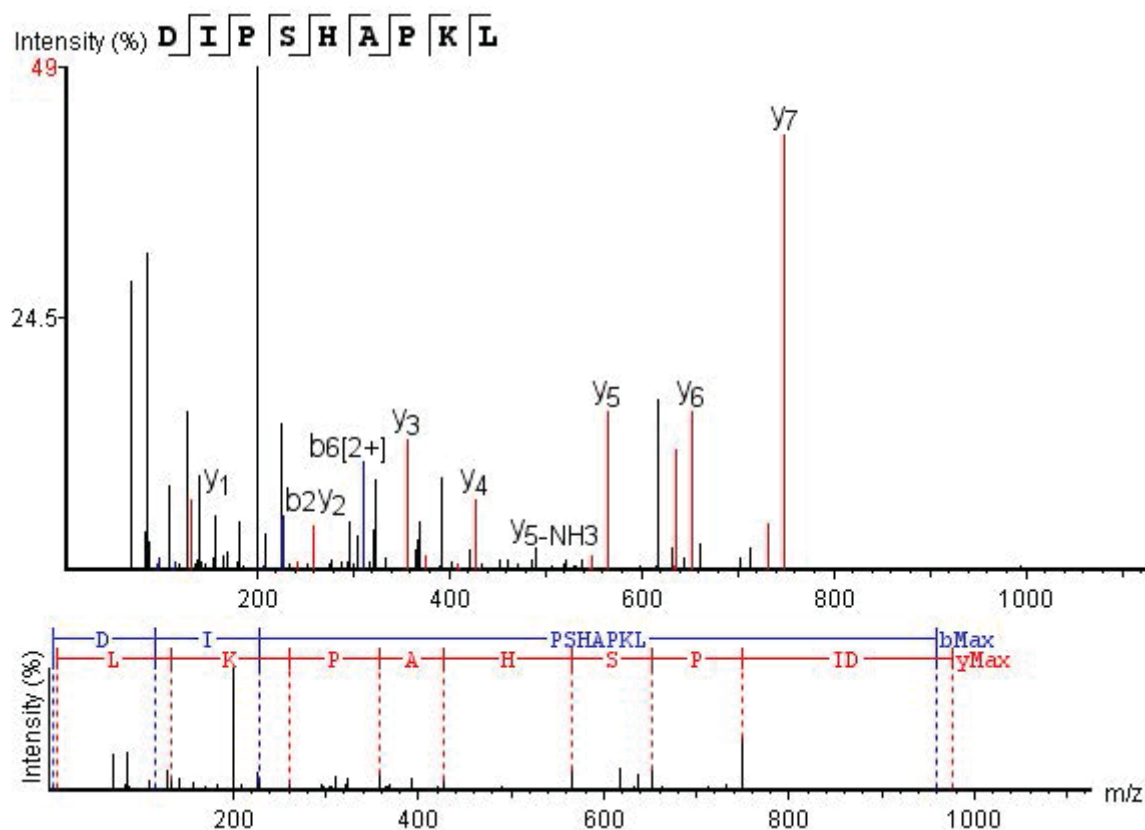
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	115.05	97.04	98.02	58.03	N					19
2	172.07	154.06	155.05	86.54	G	1827.96	1809.95	1810.93	914.48	18
3	229.09	211.08	212.07	115.05	G	1770.94	1752.93	1753.91	885.97	17
4	343.14	325.13	326.11	172.07	N	1713.92	1695.91	1696.89	857.46	16
5	400.16	382.15	383.13	200.58	G	1599.88	1581.86	1582.87	800.44	15
6	514.20	496.19	497.17	257.60	N	1542.86	1524.84	1525.83	771.93	14
7	571.22	553.21	554.19	286.11	G	1428.81	1410.80	1411.78	714.91	13
8	628.24	610.23	611.22	314.62	G	1371.79	1353.78	1354.76	686.39	12
9	741.33	723.32	724.30	371.16	L	1314.77	1296.76	1297.74	657.88	11
10	927.41	909.40	910.38	464.20	W	1201.68	1183.67	1184.66	601.34	10
11	1074.48	1056.47	1057.45	537.74	F	1015.60	997.59	998.58	508.30	9
12	1131.50	1113.49	1114.47	566.25	G	868.54	850.53	851.51	434.77	8
13	1228.55	1210.54	1211.52	614.77	P	811.52	793.50	794.50	406.26	7
14	1384.65	1366.64	1367.62	692.83	R	714.46	696.45	697.44	357.73	6
15	1497.74	1479.72	1480.71	749.37	L	558.36	540.35	541.33	279.68	5
16	1554.76	1536.75	1537.73	777.88	G	445.28	427.27	428.25	223.14	4
17	1682.85	1664.84	1665.82	841.93	K	388.26	370.24	371.23	194.63	3
18	1795.93	1777.93	1778.91	898.47	I	260.16	242.15	243.13	130.58	2
19					Q(.00)	147.08	129.07	130.05	74.04	1



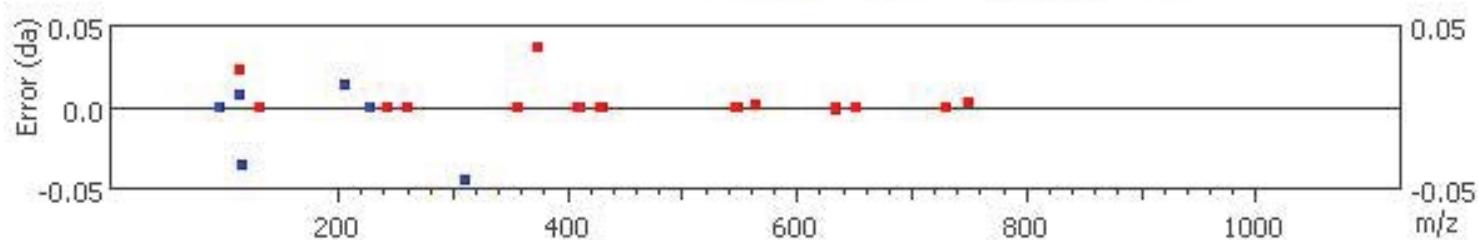


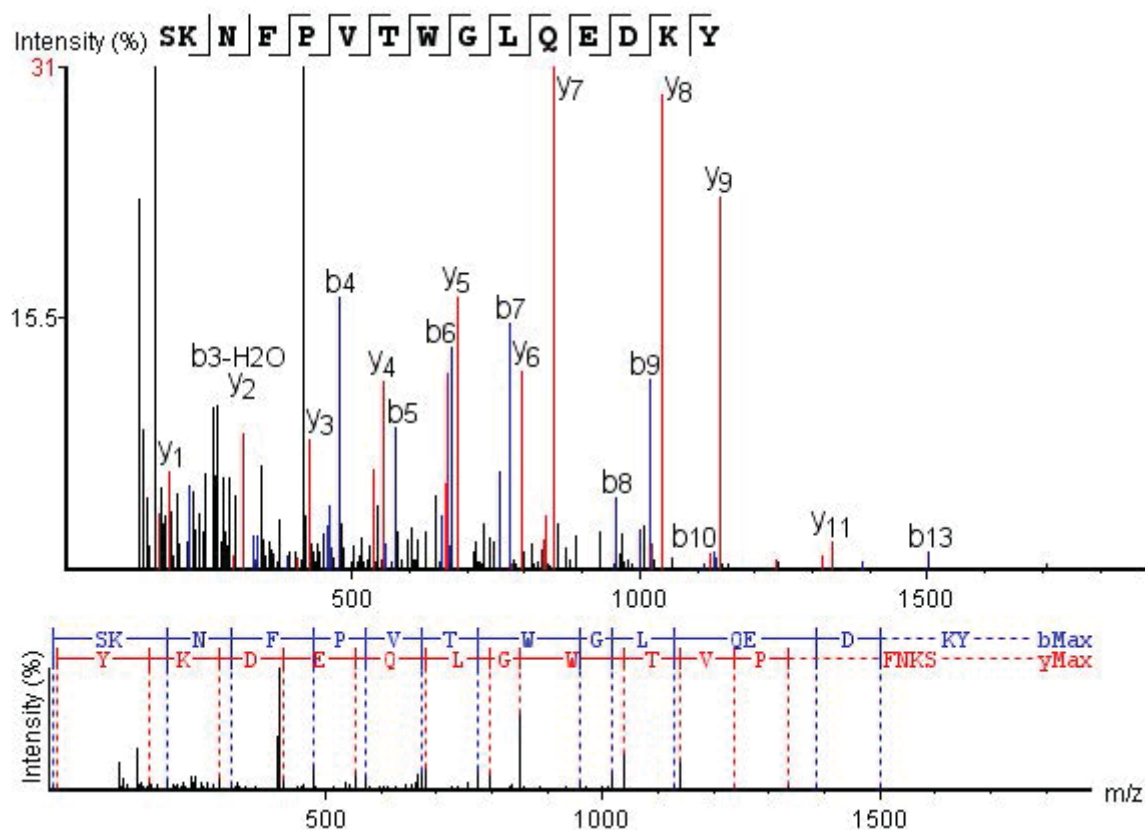
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	130.05	112.04	113.02	65.53	E					10
2	245.08	227.07	228.05	123.04	D	977.54	959.53	960.51	489.27	9
3	358.16	340.15	341.13	179.58	I	862.51	844.50	845.49	431.76	8
4	455.21	437.20	438.19	228.11	P	749.43	731.42	732.40	375.18	7
5	542.25	524.24	525.22	271.62	S	652.38	634.36	635.35	326.69	6
6	679.31	661.29	662.28	340.15	H	565.34	547.34	548.32	283.17	5
7	750.34	732.33	733.32	375.67	A	428.29	410.28	411.26	214.64	4
8	847.39	829.38	830.37	424.20	P	357.25	339.24	340.22	179.12	3
9	975.49	957.48	958.46	488.25	K	260.20	242.19	243.17	130.60	2
10					L	132.10	114.09	115.07	66.55	1



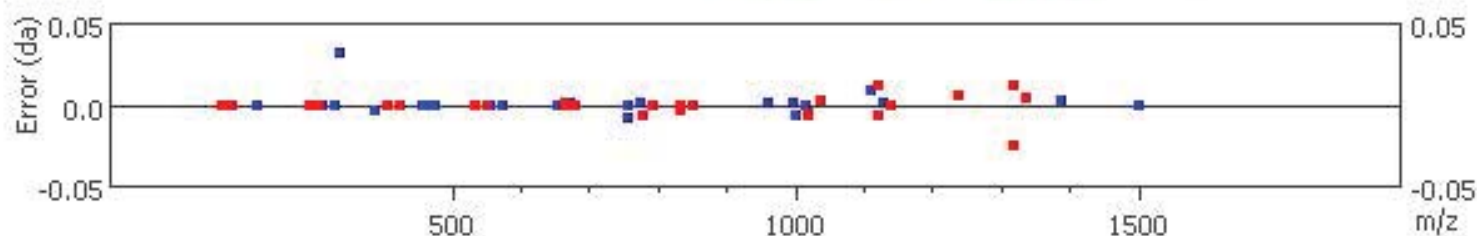


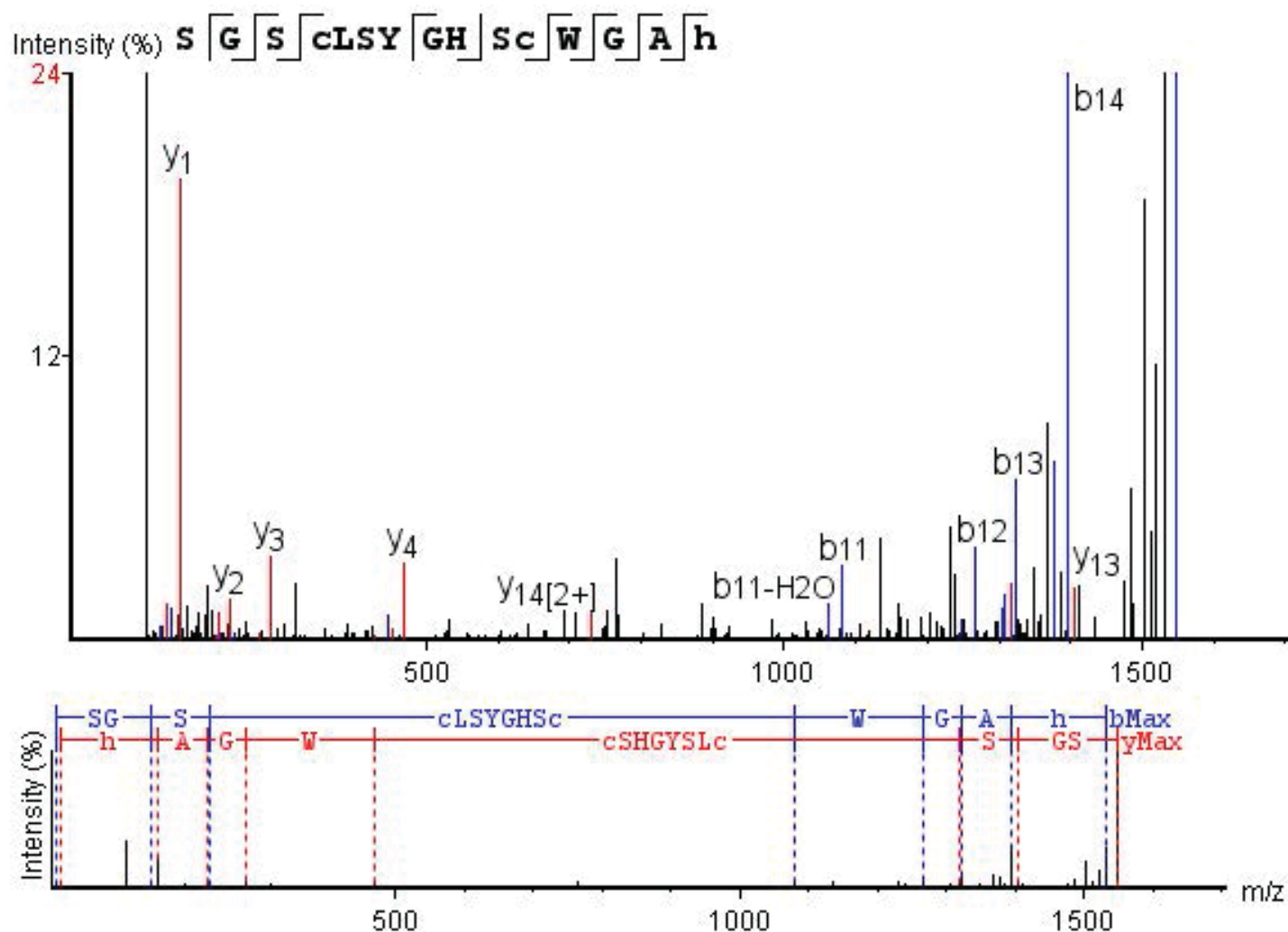
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.07	98.02	99.01	58.52	D					9
2	229.12	211.11	212.09	115.05	I	862.51	844.50	845.49	431.76	8
3	326.17	308.16	309.14	163.59	P	749.43	731.42	732.40	375.18	7
4	413.20	395.19	396.18	207.09	S	652.38	634.37	635.35	326.69	6
5	550.26	532.25	533.24	275.63	H	565.34	547.34	548.32	283.17	5
6	621.30	603.29	604.27	311.20	A	428.29	410.28	411.26	214.64	4
7	718.35	700.34	701.33	359.68	P	357.25	339.24	340.22	179.12	3
8	846.45	828.44	829.42	423.72	K	260.20	242.19	243.17	130.60	2
9					L	132.10	114.09	115.05	66.55	1



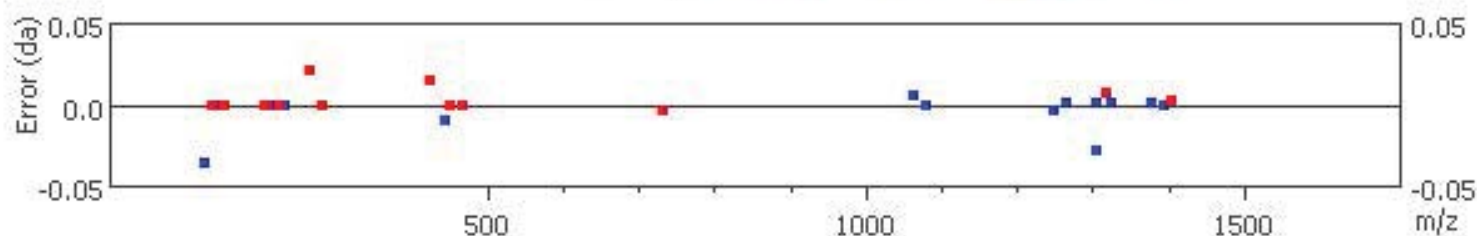


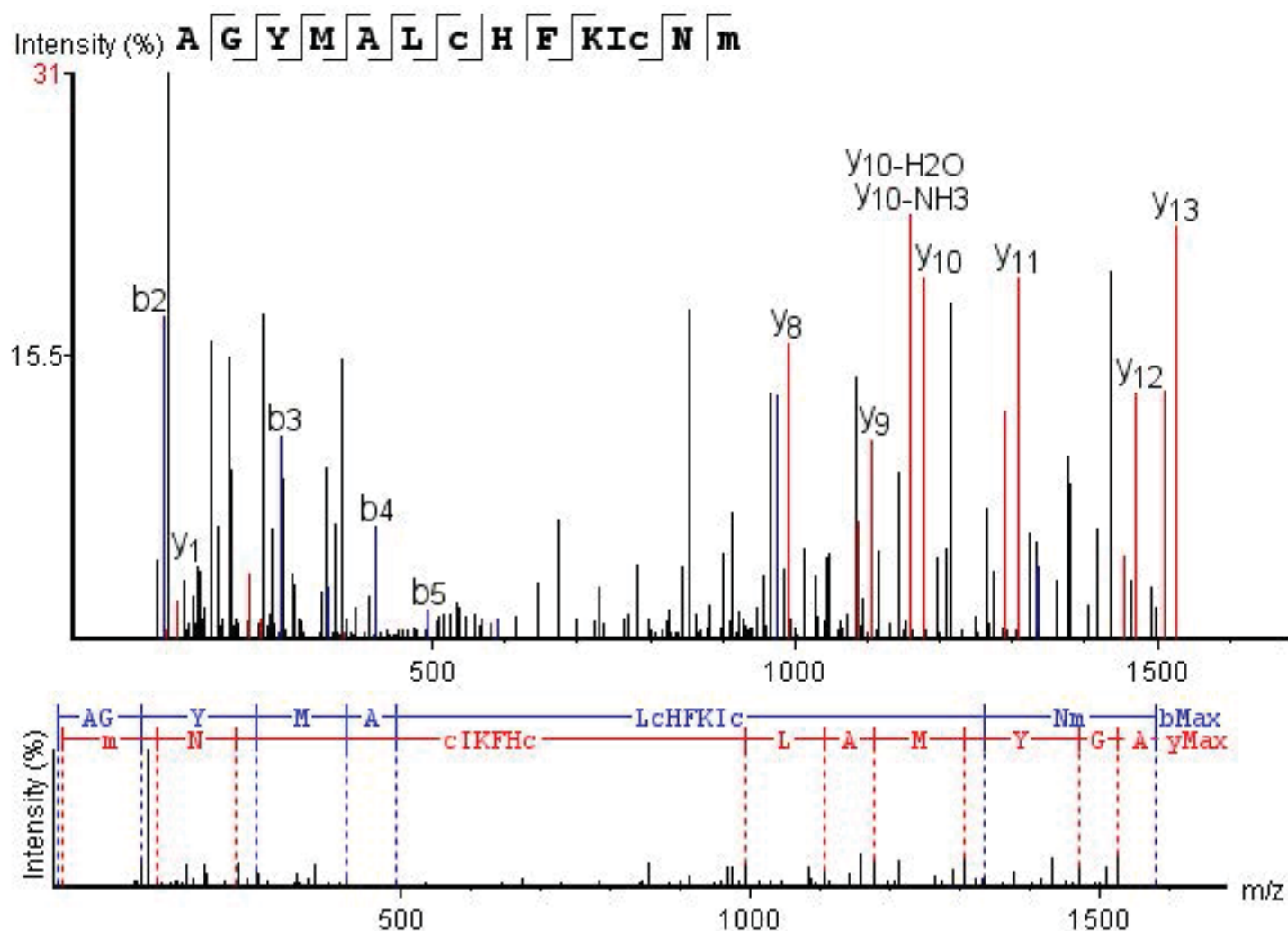
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					15
2	216.13	198.12	199.11	108.57	K	1724.86	1706.85	1707.84	862.93	14
3	330.18	312.17	313.15	165.59	N	1596.77	1578.76	1579.74	798.88	13
4	477.25	459.24	460.22	239.12	F	1482.73	1464.72	1465.70	741.86	12
5	574.30	556.29	557.27	287.65	P	1335.65	1317.63	1318.66	668.33	11
6	673.37	655.36	656.34	337.15	V	1238.60	1220.59	1221.58	619.80	10
7	774.41	756.40	757.40	387.71	T	1139.54	1121.51	1122.52	570.27	9
8	960.49	942.48	943.47	480.75	W	1038.49	1020.48	1021.47	519.74	8
9	1017.52	999.50	1000.49	509.26	G	852.41	834.40	835.39	426.70	7
10	1130.60	1112.58	1113.57	565.80	L	795.39	777.38	778.37	398.19	6
11	1258.66	1240.65	1241.63	629.83	Q	682.30	664.29	665.28	341.65	5
12	1387.70	1369.69	1370.67	694.35	E	554.24	536.23	537.22	277.62	4
13	1502.73	1484.72	1485.70	751.86	D	425.20	407.19	408.18	213.10	3
14	1630.82	1612.81	1613.80	815.91	K	310.18	292.17	293.15	155.59	2
15					Y	182.08	164.07	165.05	91.54	1



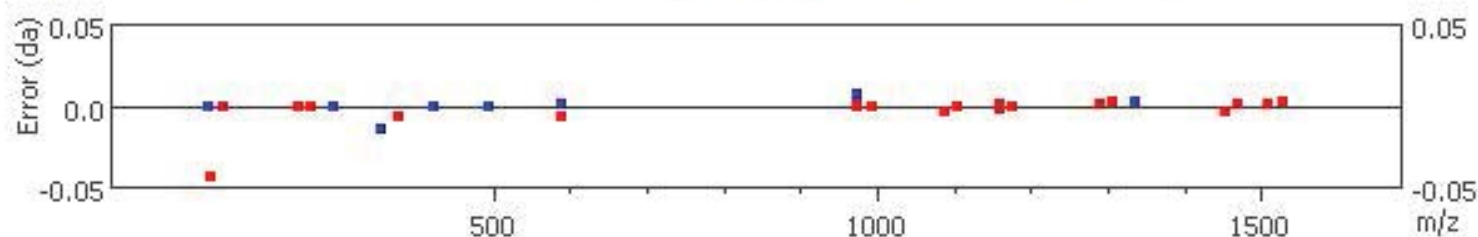


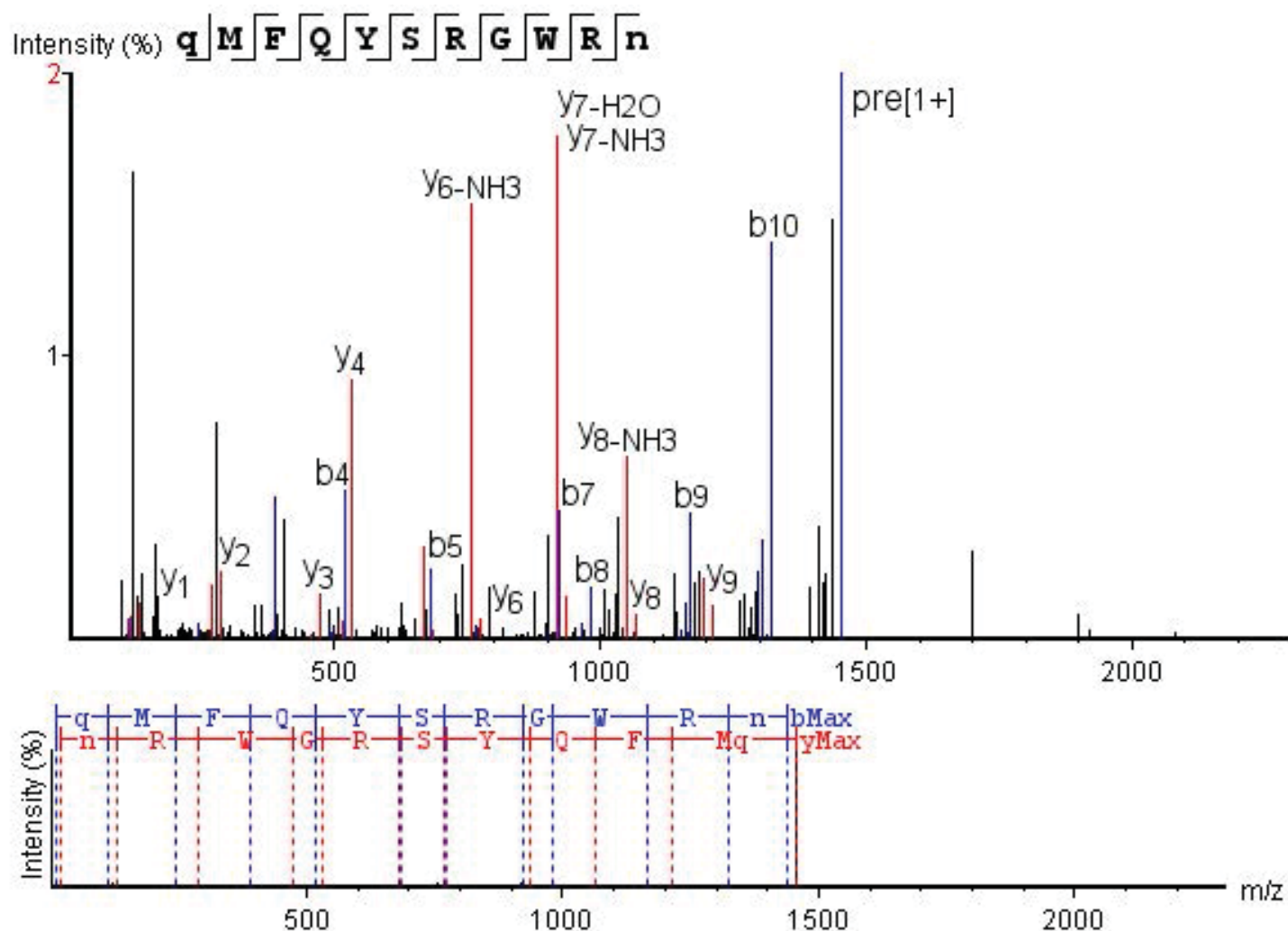
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					15
2	145.06	127.09	128.03	73.03	G	1461.58	1443.57	1444.55	731.29	14
3	232.09	214.08	215.07	116.55	S	1404.55	1386.55	1387.53	702.78	13
4	334.09	316.08	317.07	167.55	C(-1.01)	1317.52	1299.51	1300.50	659.26	12
5	447.18	429.17	430.15	224.09	L	1215.52	1197.51	1198.50	608.26	11
6	534.21	516.20	517.18	267.61	S	1102.44	1084.43	1085.41	551.72	10
7	697.27	679.26	680.25	349.14	Y	1015.41	997.40	998.38	508.20	9
8	754.30	736.29	737.27	377.65	G	852.34	834.33	835.32	426.66	8
9	891.35	873.34	874.33	446.19	H	795.32	777.31	778.30	398.16	7
10	978.39	960.38	961.36	489.69	S	658.26	640.25	641.24	329.63	6
11	1080.39	1062.37	1063.36	540.69	C(-1.01)	571.23	553.22	554.21	286.12	5
12	1266.46	1248.46	1249.44	633.73	W	469.23	451.22	452.20	235.12	4
13	1323.49	1305.48	1306.49	662.24	G	283.15	265.12	266.12	142.08	3
14	1394.52	1376.51	1377.50	697.76	A	226.13	208.12	209.10	113.56	2
15					H(-.98)	155.09	137.08	138.07	78.05	1



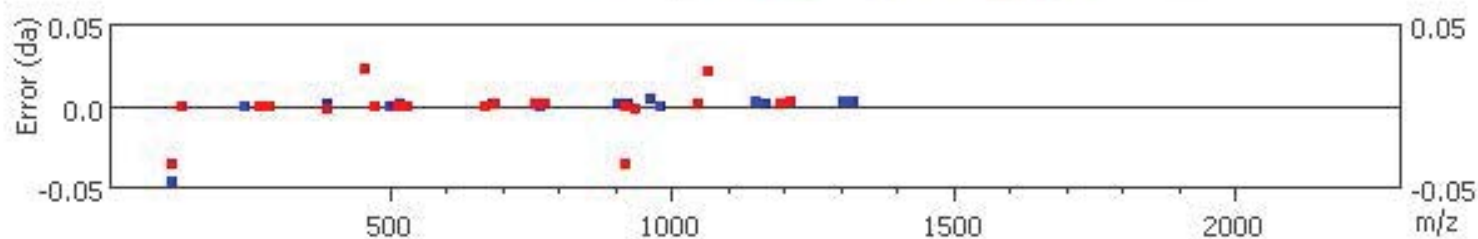


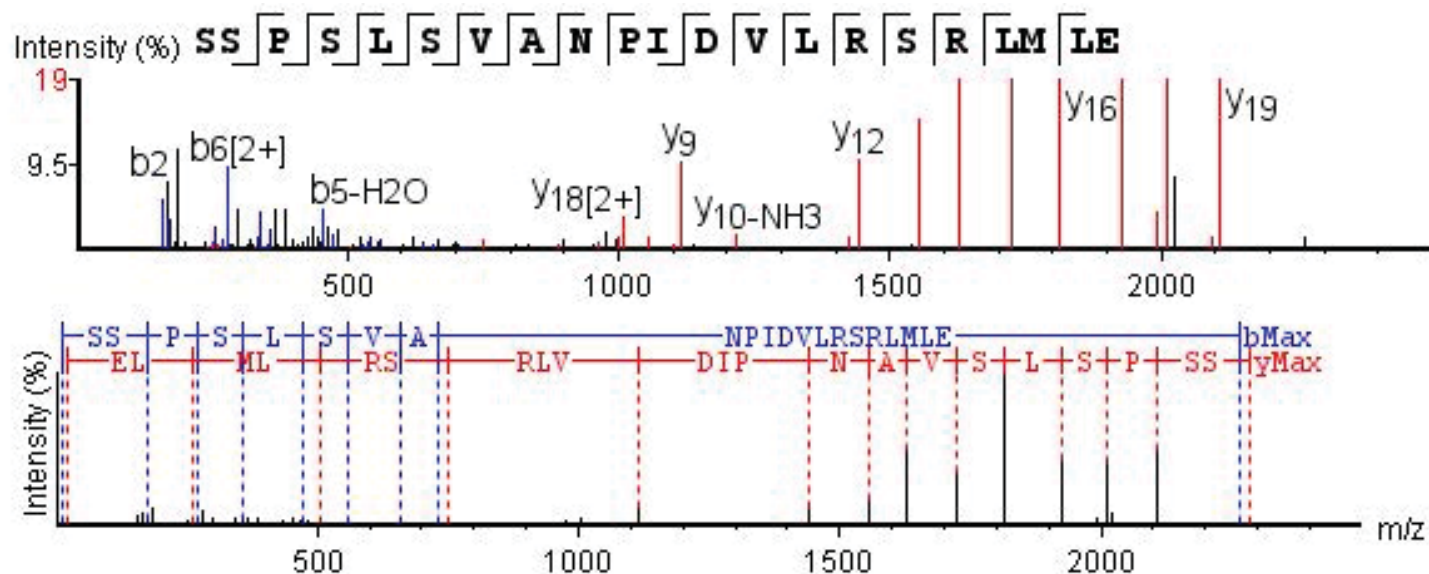
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					14
2	129.07	111.06	112.04	65.03	G	1527.67	1509.66	1510.64	764.34	13
3	292.13	274.12	275.10	146.56	Y	1470.65	1452.64	1453.63	735.83	12
4	423.17	405.16	406.14	212.09	M	1307.58	1289.58	1290.56	654.29	11
5	494.21	476.20	477.18	247.60	A	1176.55	1158.54	1159.52	588.77	10
6	607.29	589.28	590.26	304.15	L	1105.51	1087.50	1088.49	553.26	9
7	709.29	691.28	692.27	355.16	C(-1.01)	992.43	974.41	975.40	496.71	8
8	846.35	828.34	829.32	423.68	H	890.42	872.41	873.40	445.71	7
9	993.42	975.40	976.39	497.21	F	753.37	735.36	736.34	377.19	6
10	1121.52	1103.50	1104.49	561.26	K	606.30	588.29	589.28	303.65	5
11	1234.60	1216.59	1217.57	617.80	I	478.20	460.19	461.18	239.60	4
12	1336.60	1318.59	1319.57	668.80	C(-1.01)	365.12	347.11	348.09	183.06	3
13	1450.64	1432.63	1433.62	725.82	N	263.12	245.11	246.09	132.10	2
14					M(-.98)	149.07	131.06	132.05	75.04	1



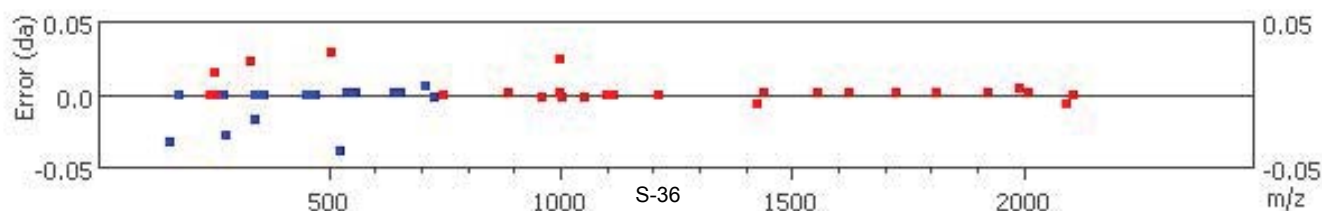


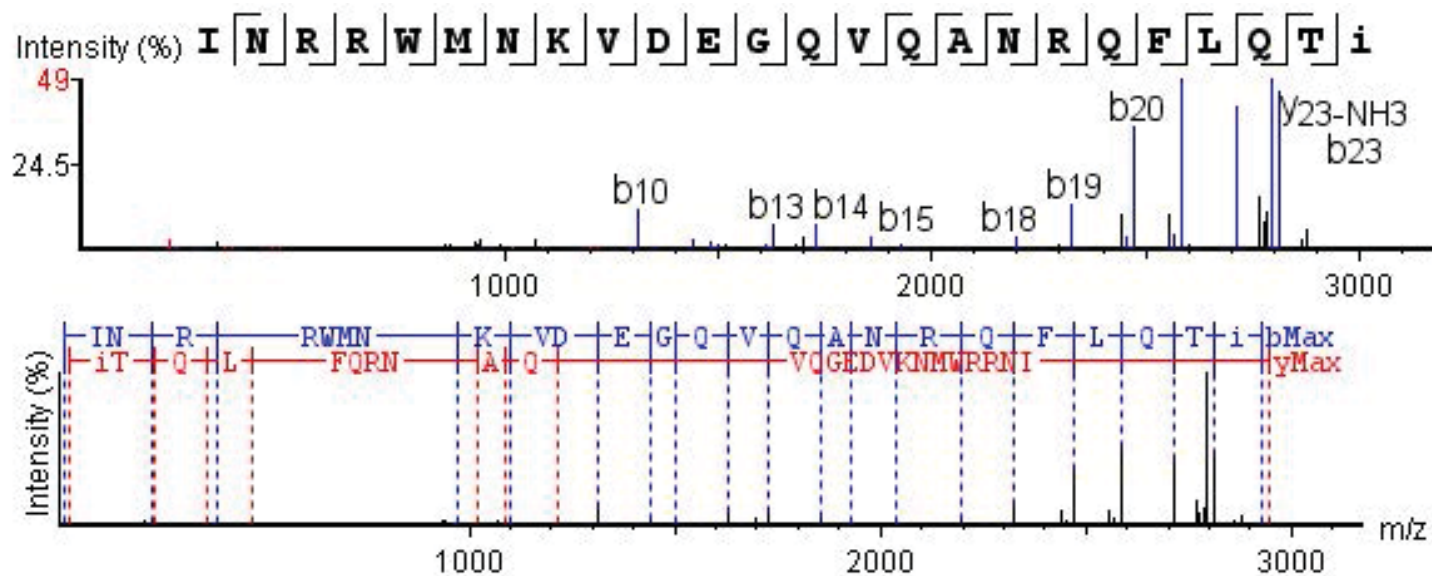
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	112.09	94.03	95.01	56.52	Q(-17.03)					11
2	243.08	225.07	226.05	122.04	M	1343.64	1325.63	1326.62	672.32	10
3	390.15	372.14	373.12	195.57	F	1212.60	1194.59	1195.57	606.80	9
4	518.21	500.20	501.18	259.60	Q	1065.51	1047.52	1048.50	533.27	8
5	681.27	663.26	664.24	341.14	Y	937.48	919.50	920.45	469.24	7
6	768.30	750.29	751.28	384.65	S	774.41	756.40	757.38	387.71	6
7	924.40	906.39	907.37	462.70	R	687.38	669.37	670.35	344.19	5
8	981.43	963.41	964.39	491.21	G	531.28	513.27	514.25	266.14	4
9	1167.50	1149.49	1150.47	584.25	W	474.26	456.22	457.23	237.63	3
10	1323.60	1305.60	1306.58	662.30	R	288.18	270.17	271.15	144.59	2
11					N(-.98)	132.08	114.07	115.09	66.54	1



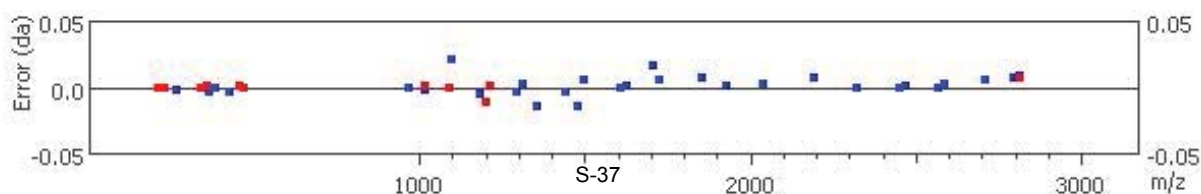


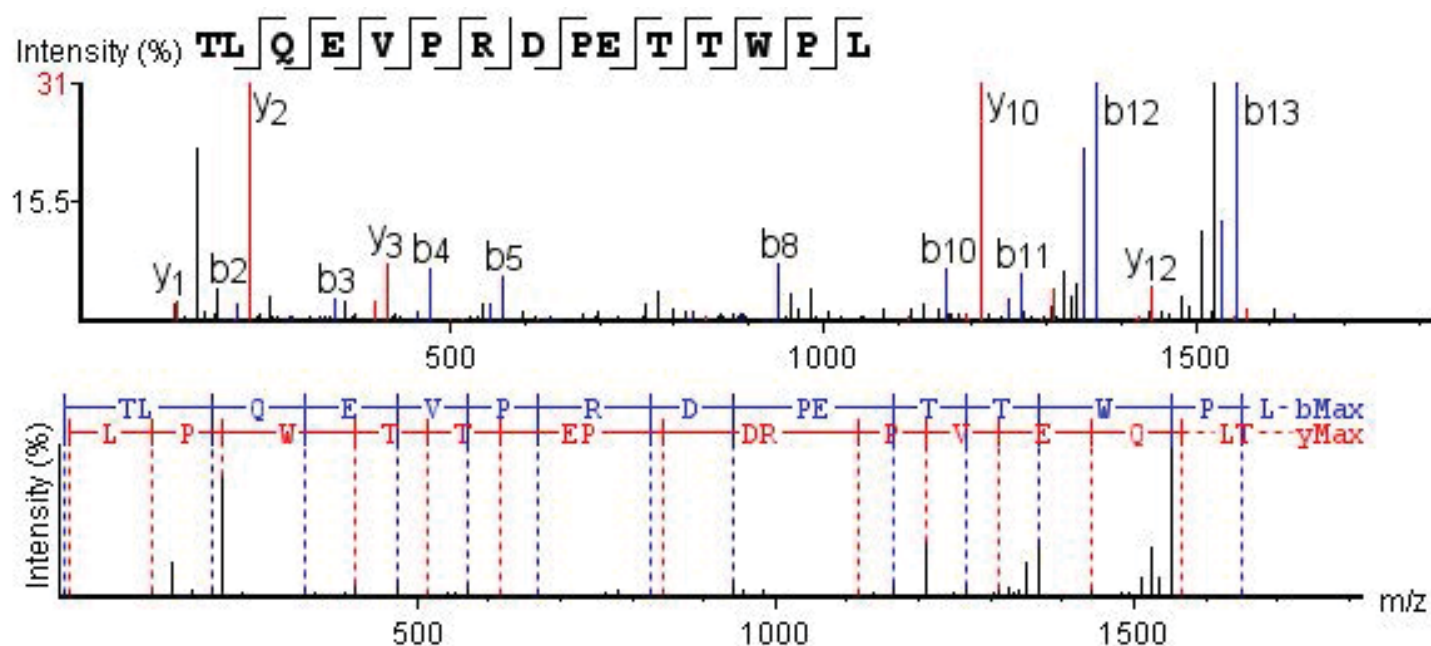
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					21
2	175.07	157.09	158.04	88.04	S	2197.20	2179.19	2180.17	1099.10	20
3	272.12	254.11	255.10	136.56	P	2110.17	2092.16	2093.14	1055.59	19
4	359.16	341.15	342.15	180.08	S	2013.11	1995.10	1996.09	1007.06	18
5	472.24	454.23	455.21	236.62	L	1926.08	1908.07	1909.06	963.54	17
6	559.27	541.26	542.25	280.17	S	1813.00	1794.99	1795.97	907.00	16
7	658.34	640.33	641.31	329.67	V	1725.97	1707.96	1708.94	863.48	15
8	729.38	711.36	712.35	365.19	A	1626.90	1608.89	1609.87	813.95	14
9	843.42	825.41	826.39	422.21	N	1555.86	1537.85	1538.84	778.43	13
10	940.47	922.46	923.45	470.74	P	1441.82	1423.81	1424.80	721.41	12
11	1053.56	1035.55	1036.53	527.32	I	1344.77	1326.76	1327.74	672.88	11
12	1168.58	1150.57	1151.56	584.79	D	1231.68	1213.67	1214.66	616.34	10
13	1267.65	1249.64	1250.63	634.33	V	1116.65	1098.65	1099.63	558.83	9
14	1380.74	1362.73	1363.71	690.87	L	1017.59	999.55	1000.56	509.29	8
15	1536.84	1518.83	1519.81	768.92	R	904.50	886.49	887.47	452.75	7
16	1623.87	1605.86	1606.84	812.44	S	748.40	730.39	731.38	374.70	6
17	1779.97	1761.96	1762.94	890.49	R	661.37	643.36	644.34	331.16	5
18	1893.06	1875.05	1876.03	947.03	L	505.24	487.26	488.24	253.12	4
19	2024.10	2006.09	2007.07	1012.55	M	392.18	374.17	375.16	196.59	3
20	2137.18	2119.17	2120.15	1069.09	L	261.14	243.13	244.12	131.07	2
21					E	148.06	130.05	131.03	74.53	1



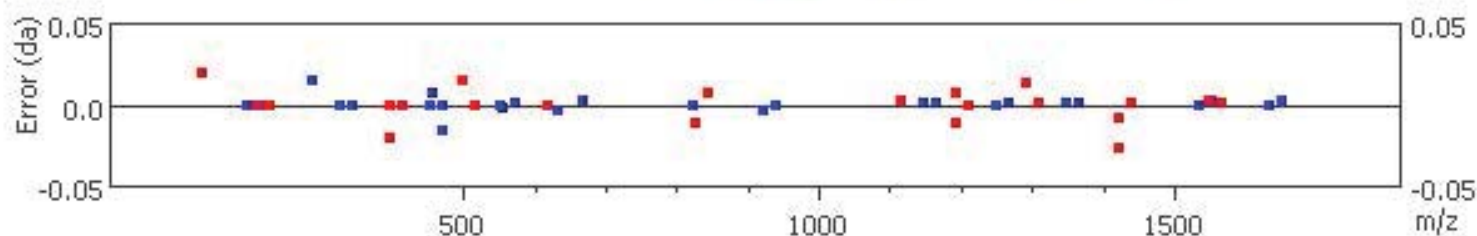


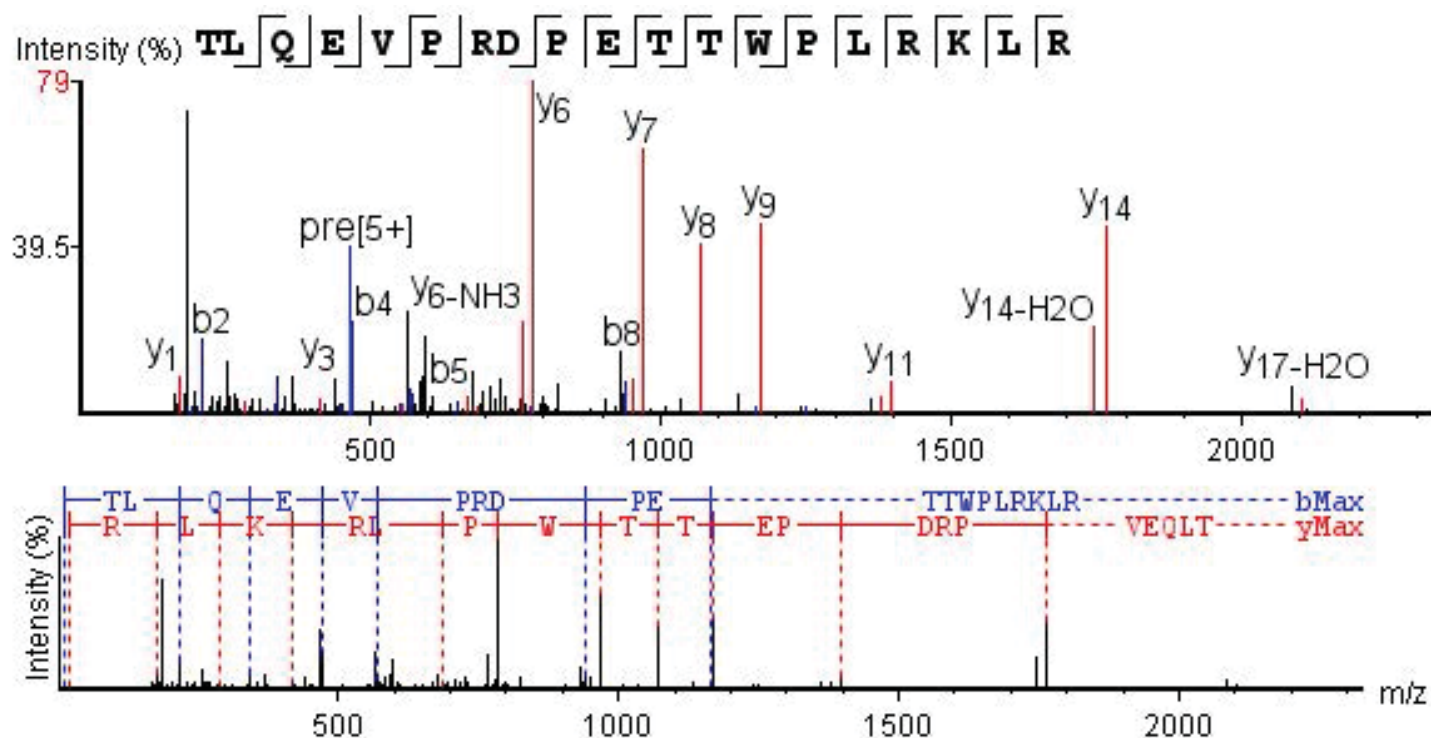
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	I					24
2	228.13	210.12	211.11	114.57	N	2830.46	2812.45	2813.43	1415.73	23
3	384.23	366.23	367.21	192.62	R	2716.42	2698.41	2699.39	1358.71	22
4	540.34	522.33	523.31	270.67	R	2560.32	2542.31	2543.29	1280.66	21
5	726.42	708.41	709.39	363.71	W	2404.22	2386.21	2387.19	1202.61	20
6	857.46	839.45	840.43	429.23	M	2218.14	2200.13	2201.11	1109.57	19
7	971.50	953.49	954.47	486.25	N	2087.10	2069.09	2070.07	1044.05	18
8	1099.57	1081.58	1082.57	550.30	K	1973.06	1955.05	1956.03	987.03	17
9	1198.66	1180.65	1181.64	599.83	V	1844.96	1826.95	1827.93	922.98	16
10	1313.69	1295.68	1296.66	657.35	D	1745.89	1727.88	1728.87	873.45	15
11	1442.74	1424.72	1425.71	721.87	E	1630.87	1612.86	1613.84	815.93	14
12	1499.75	1481.74	1482.74	750.38	G	1501.82	1483.81	1484.80	751.41	13
13	1627.81	1609.80	1610.79	814.41	Q	1444.80	1426.79	1427.77	722.90	12
14	1726.87	1708.85	1709.85	863.94	V	1316.74	1298.73	1299.72	658.87	11
15	1854.93	1836.93	1837.91	927.97	Q	1217.67	1199.66	1200.66	609.34	10
16	1925.97	1907.97	1908.95	963.49	A	1089.62	1071.61	1072.59	545.31	9
17	2040.02	2022.01	2022.99	1020.51	N	1018.58	1000.57	1001.55	509.79	8
18	2196.11	2178.11	2179.09	1098.56	R	904.54	886.53	887.51	452.77	7
19	2324.18	2306.17	2307.15	1162.59	Q	748.44	730.42	731.41	374.72	6
20	2471.25	2453.24	2454.22	1236.12	F	620.38	602.37	603.35	310.69	5
21	2584.33	2566.32	2567.31	1292.67	L	473.31	455.30	456.28	237.15	4
22	2712.38	2694.38	2695.36	1356.71	Q	360.22	342.21	343.20	180.61	3
23	2813.43	2795.42	2796.41	1407.22	T	232.16	214.15	215.14	116.58	2
24					I(-.98)	131.12	113.11	114.09	66.06	1



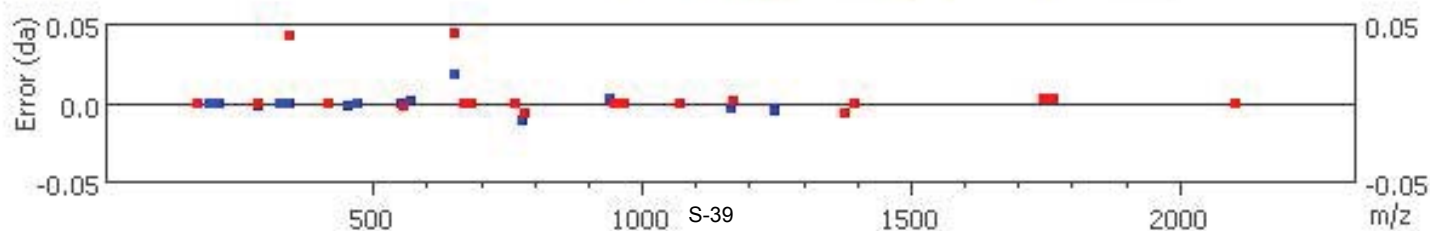


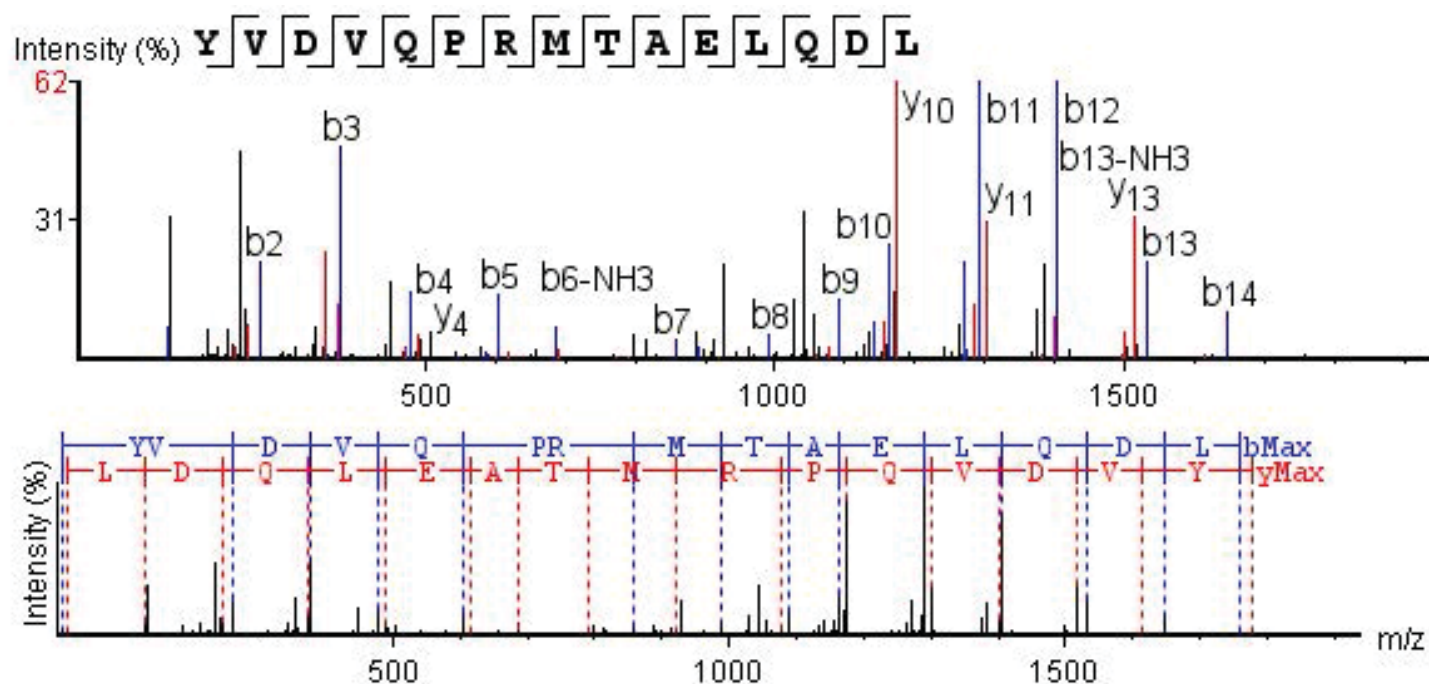
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.04	85.03	51.53	T					15
2	215.14	197.13	198.11	108.07	L	1680.86	1662.85	1663.83	840.93	14
3	343.20	325.19	326.17	172.10	Q	1567.77	1549.76	1550.74	784.39	13
4	472.24	454.23	455.21	236.62	E	1439.71	1421.71	1422.72	720.36	12
5	571.31	553.30	554.28	286.14	V	1310.67	1292.66	1293.63	655.84	11
6	668.36	650.35	651.33	334.68	P	1211.60	1193.59	1194.59	606.30	10
7	824.46	806.45	807.44	412.73	R	1114.55	1096.54	1097.53	557.78	9
8	939.49	921.48	922.47	470.26	D	958.45	940.44	941.42	479.73	8
9	1036.54	1018.53	1019.52	518.77	P	843.42	825.41	826.41	422.21	7
10	1165.58	1147.57	1148.56	583.29	E	746.37	728.36	729.34	373.69	6
11	1266.63	1248.62	1249.61	633.82	T	617.33	599.32	600.30	309.16	5
12	1367.68	1349.67	1350.65	684.34	T	516.28	498.25	499.25	258.64	4
13	1553.76	1535.75	1536.73	777.38	W	415.23	397.24	398.21	208.12	3
14	1650.81	1632.80	1633.79	825.91	P	229.15	211.14	212.13	115.08	2
15					L	132.08	114.09	115.07	66.55	1



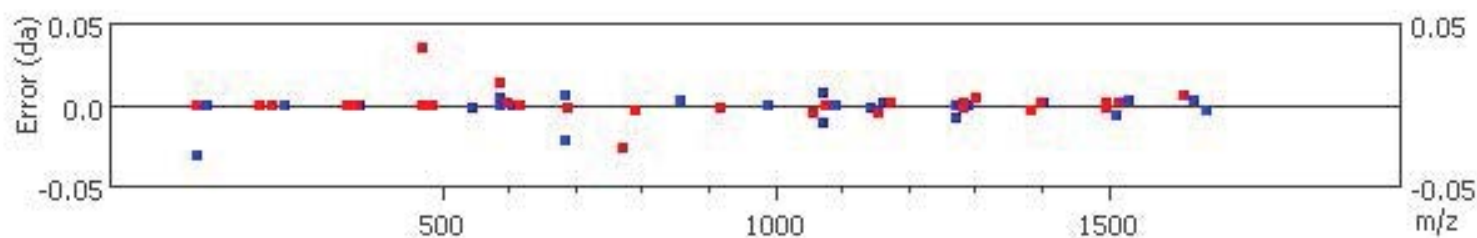


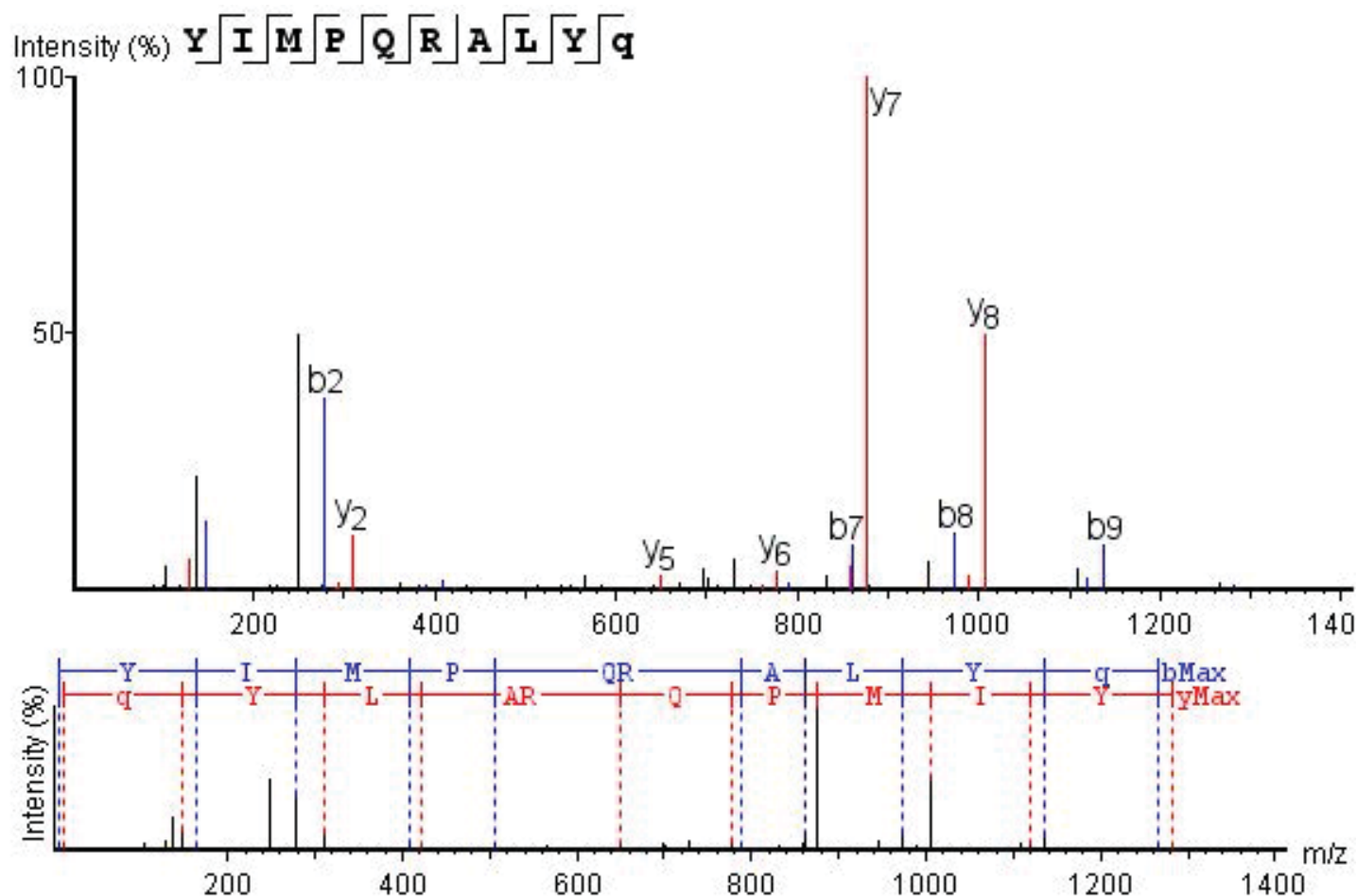
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.04	85.03	51.53	T					19
2	215.14	197.13	198.11	108.07	L	2234.24	2216.23	2217.21	1117.62	18
3	343.20	325.19	326.17	172.10	Q	2121.16	2103.15	2104.13	1061.08	17
4	472.24	454.23	455.21	236.62	E	1993.10	1975.09	1976.07	997.05	16
5	571.31	553.30	554.28	286.16	V	1864.06	1846.04	1847.03	932.53	15
6	668.36	650.33	651.33	334.68	P	1764.98	1746.97	1747.96	882.99	14
7	824.46	806.45	807.44	412.73	R	1667.93	1649.92	1650.91	834.47	13
8	939.49	921.48	922.46	470.24	D	1511.83	1493.82	1494.81	756.42	12
9	1036.54	1018.53	1019.52	518.77	P	1396.80	1378.80	1379.78	698.90	11
10	1165.59	1147.57	1148.56	583.29	E	1299.75	1281.74	1282.73	650.33	10
11	1266.63	1248.63	1249.61	633.82	T	1170.71	1152.70	1153.68	585.86	9
12	1367.68	1349.67	1350.65	684.34	T	1069.66	1051.65	1052.64	535.33	8
13	1553.76	1535.75	1536.73	777.39	W	968.61	950.60	951.59	484.81	7
14	1650.81	1632.80	1633.79	825.91	P	782.54	764.53	765.51	391.77	6
15	1763.90	1745.89	1746.87	882.45	L	685.48	667.47	668.46	343.20	5
16	1920.00	1901.99	1902.97	960.50	R	572.40	554.39	555.37	286.70	4
17	2048.09	2030.08	2031.07	1024.55	K	416.30	398.29	399.27	208.65	3
18	2161.18	2143.17	2144.15	1081.09	L	288.20	270.19	271.18	144.60	2
19					R	175.12	157.11	158.09	88.06	1



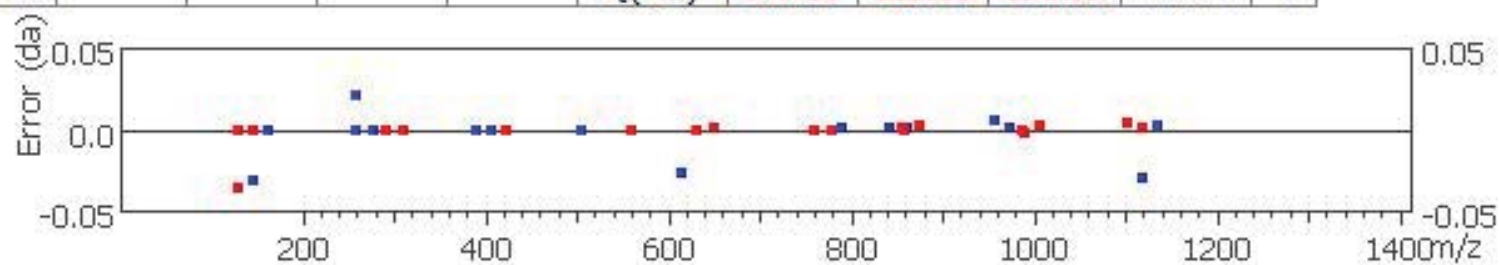


#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	164.07	146.06	147.04	82.54	Y					15
2	263.14	245.13	246.11	132.10	V	1614.81	1596.81	1597.79	807.91	14
3	378.17	360.16	361.14	189.58	D	1515.75	1497.73	1498.72	758.37	13
4	477.23	459.22	460.21	239.12	V	1400.72	1382.71	1383.70	700.86	12
5	605.29	587.28	588.26	303.15	Q	1301.65	1283.64	1284.63	651.33	11
6	702.35	684.33	685.34	351.67	P	1173.59	1155.59	1156.57	587.28	10
7	858.44	840.44	841.42	429.72	R	1076.54	1058.53	1059.52	538.77	9
8	989.49	971.48	972.46	495.24	M	920.44	902.43	903.41	460.72	8
9	1090.53	1072.52	1073.52	545.77	T	789.40	771.42	772.37	395.20	7
10	1161.57	1143.56	1144.55	581.29	A	688.35	670.34	671.32	344.68	6
11	1290.62	1272.60	1273.60	645.81	E	617.31	599.30	600.29	309.16	5
12	1403.70	1385.69	1386.67	702.35	L	488.27	470.22	471.24	244.64	4
13	1531.75	1513.75	1514.74	766.38	Q	375.19	357.18	358.16	188.09	3
14	1646.79	1628.77	1629.75	823.89	D	247.13	229.12	230.10	124.06	2
15					L	132.10	114.09	115.07	66.55	1

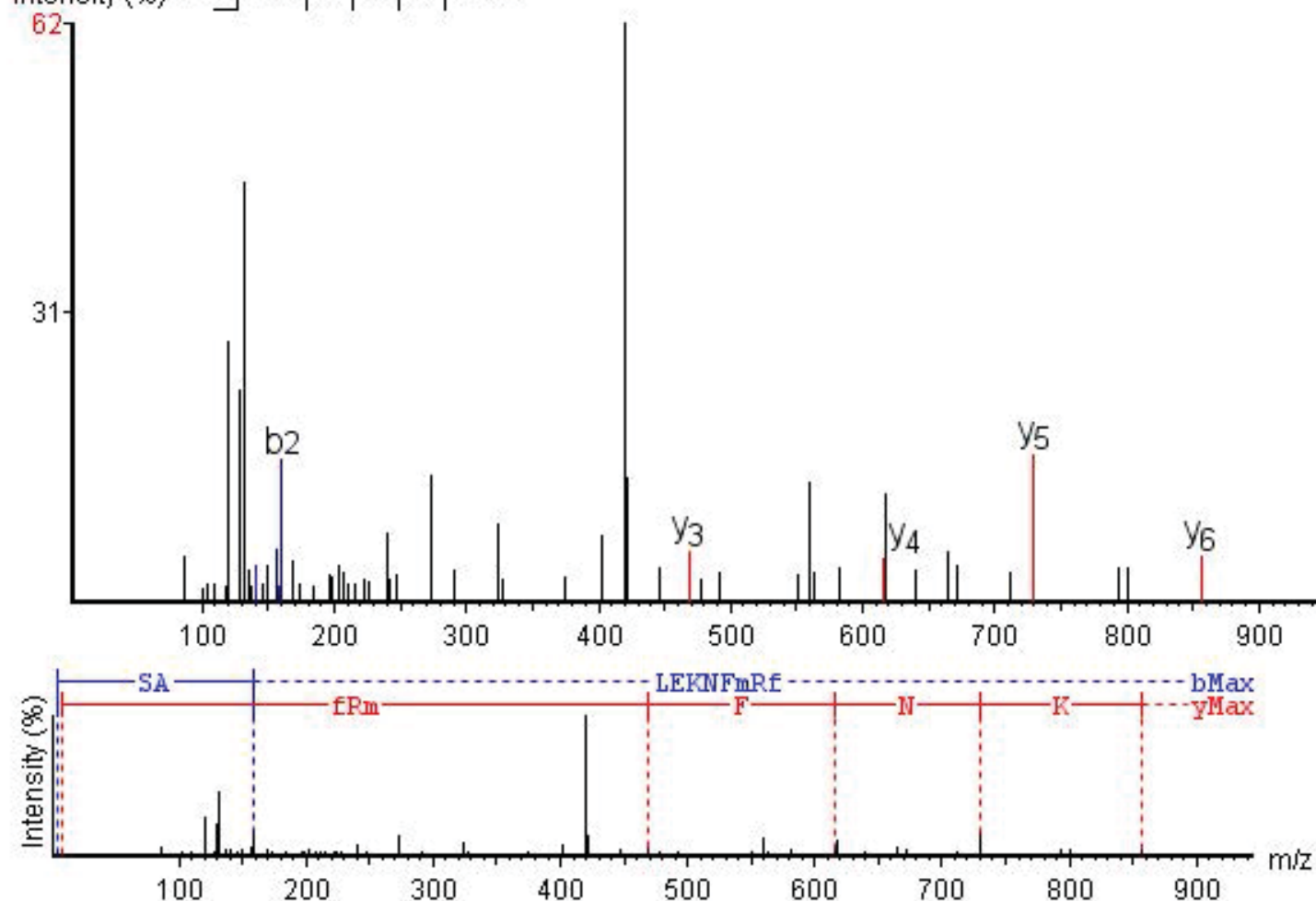




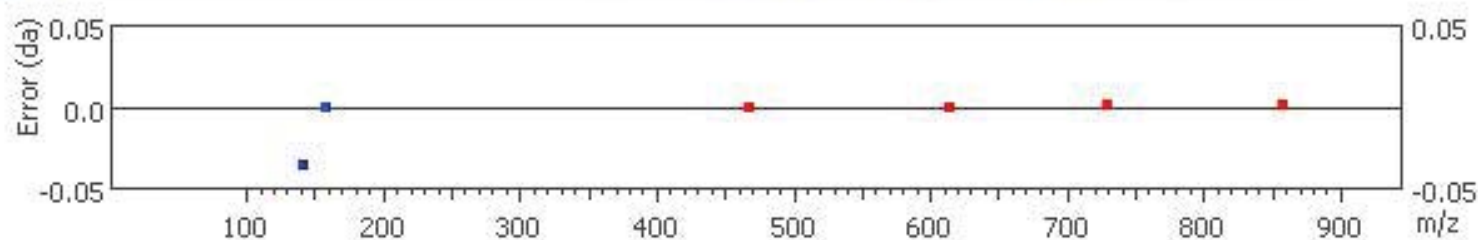
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	164.07	146.06	147.08	82.54	Y					10
2	277.15	259.12	260.13	139.08	I	1119.60	1101.59	1102.57	560.30	9
3	408.19	390.18	391.17	204.60	M	1006.51	988.50	989.49	503.76	8
4	505.25	487.24	488.22	253.12	P	875.47	857.46	858.45	438.24	7
5	633.31	615.32	616.28	317.15	Q	778.42	760.41	761.39	389.71	6
6	789.41	771.40	772.38	395.20	R	650.36	632.35	633.34	325.68	5
7	860.44	842.43	843.42	430.72	A	494.26	476.25	477.23	247.63	4
8	973.53	955.52	956.50	487.26	L	423.22	405.21	406.20	212.11	3
9	1136.59	1118.58	1119.60	568.80	Y	310.14	292.13	293.11	155.57	2
10					Q(.00)	147.08	129.10	130.05	74.04	1

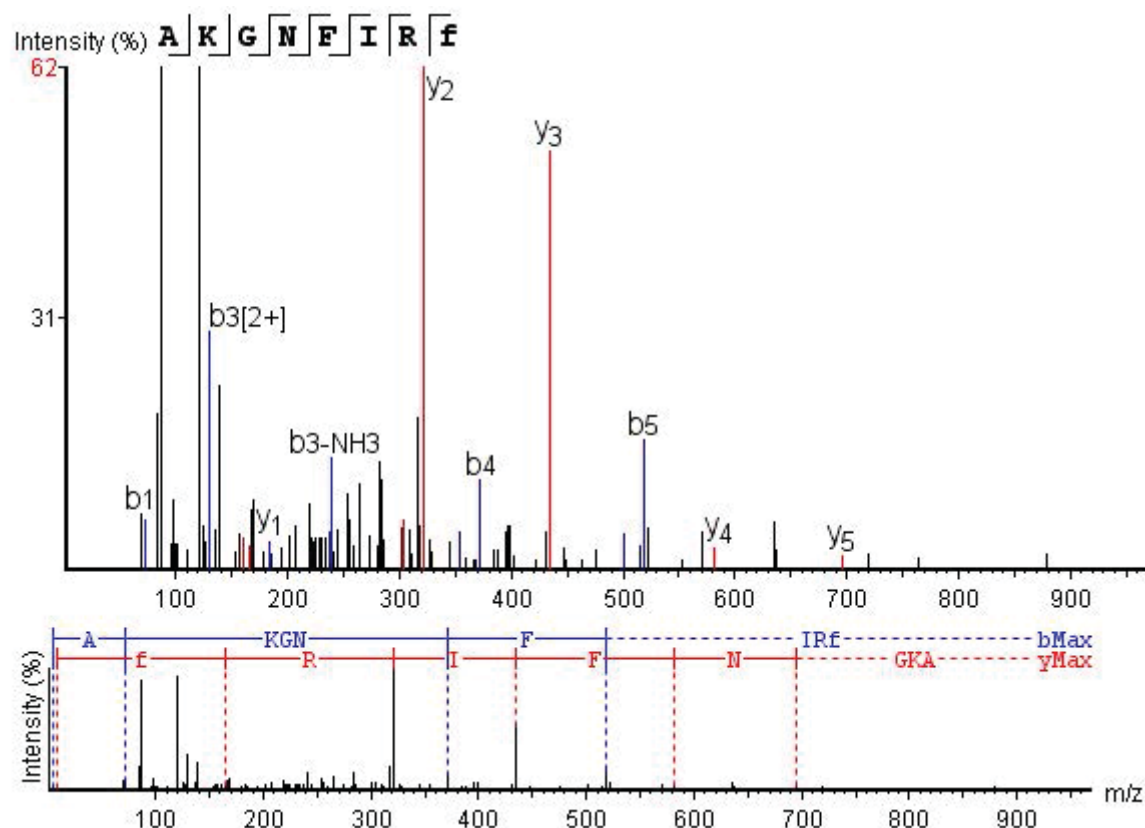


Intensity (%) **SA** **LE** **K** **N** **F** **mRf**

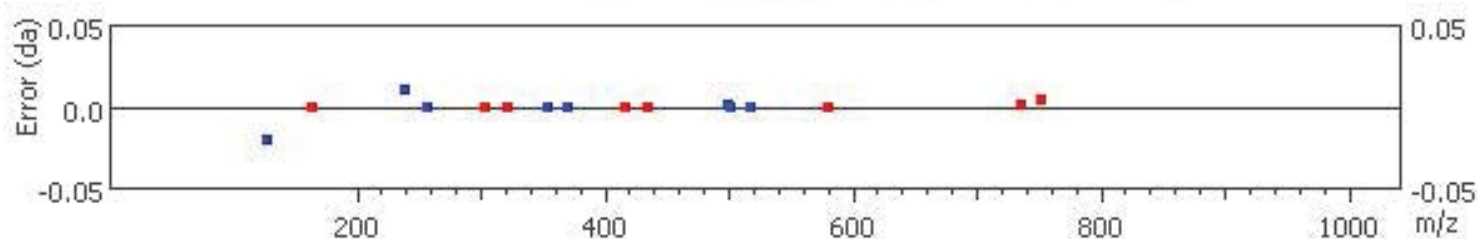


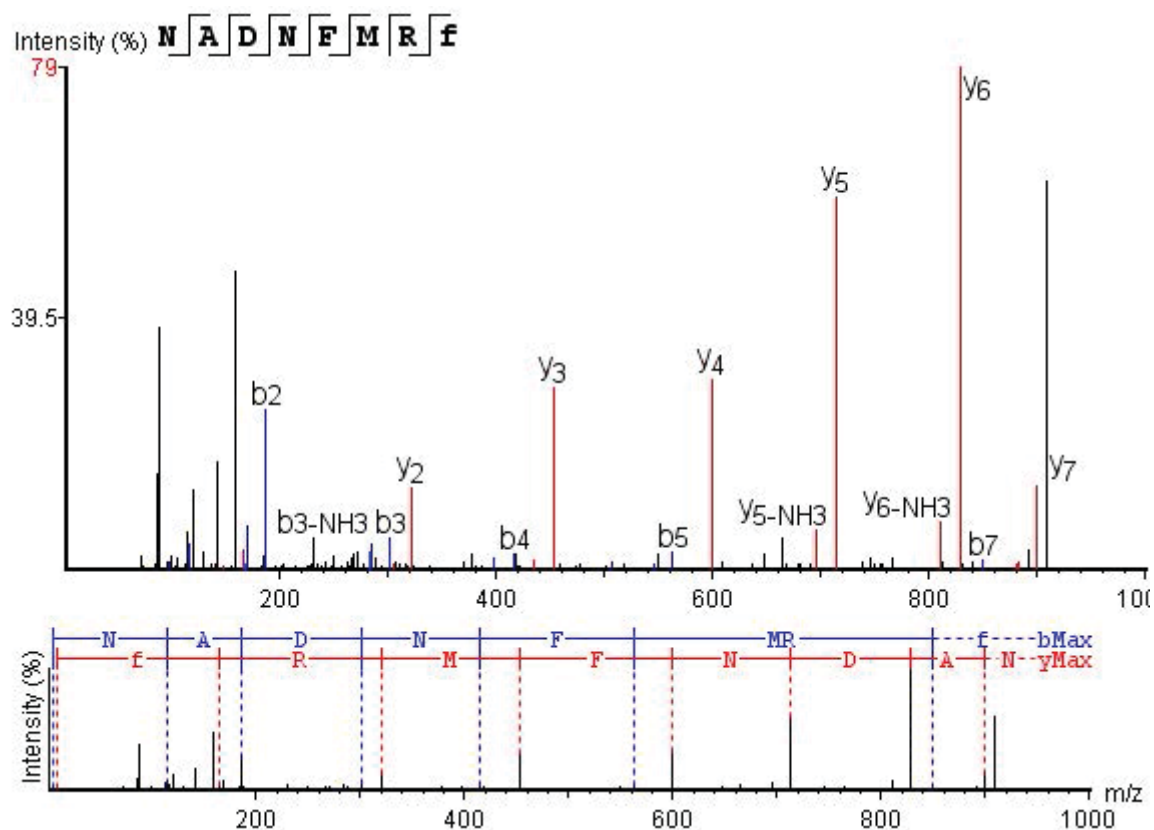
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					10
2	159.08	141.10	142.05	80.04	A	1170.61	1152.60	1153.58	585.80	9
3	272.16	254.15	255.13	136.58	L	1099.57	1081.56	1082.54	550.29	8
4	401.20	383.19	384.18	201.10	E	986.49	968.48	969.46	493.74	7
5	529.30	511.29	512.27	265.15	K	857.44	839.43	840.42	429.22	6
6	643.34	625.33	626.31	322.17	N	729.35	711.34	712.32	365.18	5
7	790.41	772.40	773.38	395.70	F	615.31	597.30	598.28	308.15	4
8	937.45	919.43	920.42	469.22	M(+15.99)	468.24	450.23	451.21	234.62	3
9	1093.55	1075.54	1076.52	547.27	R	321.20	303.19	304.18	161.10	2
10					F(-.98)	165.10	147.09	148.08	83.05	1



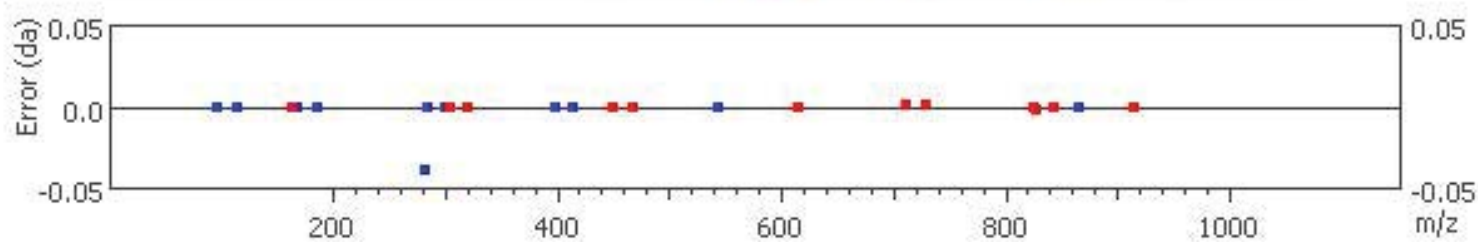


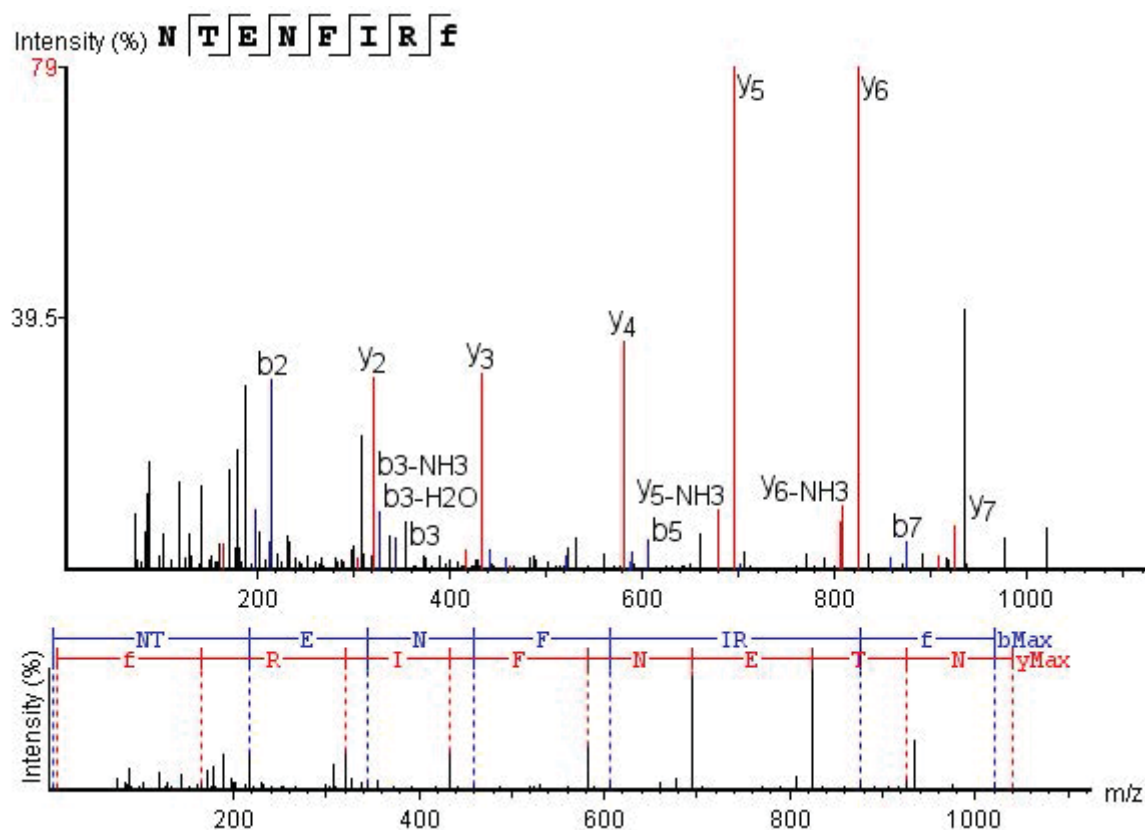
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					8
2	200.14	182.13	183.11	100.57	K	880.52	862.50	863.49	440.76	7
3	257.16	239.15	240.12	129.10	G	752.42	734.41	735.39	376.71	6
4	371.20	353.19	354.18	186.10	N	695.40	677.39	678.37	348.20	5
5	518.27	500.26	501.25	259.64	F	581.35	563.35	564.33	291.18	4
6	631.36	613.35	614.33	316.18	I	434.29	416.28	417.26	217.64	3
7	787.46	769.45	770.43	394.23	R	321.20	303.19	304.18	161.10	2
8					F(-.98)	165.10	147.09	148.08	83.05	1



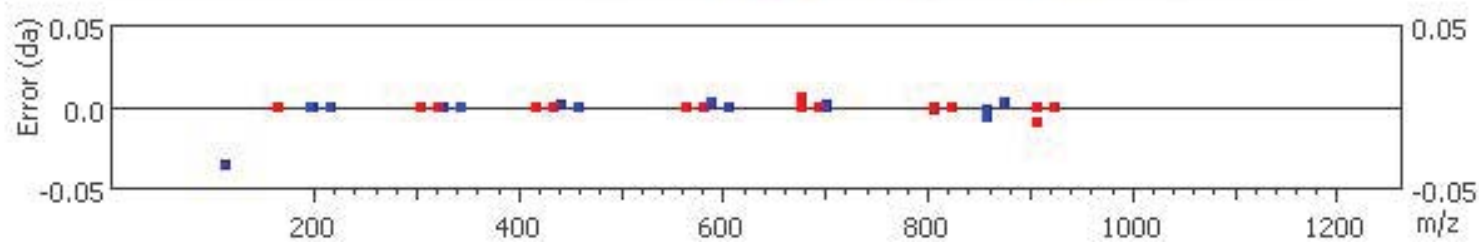


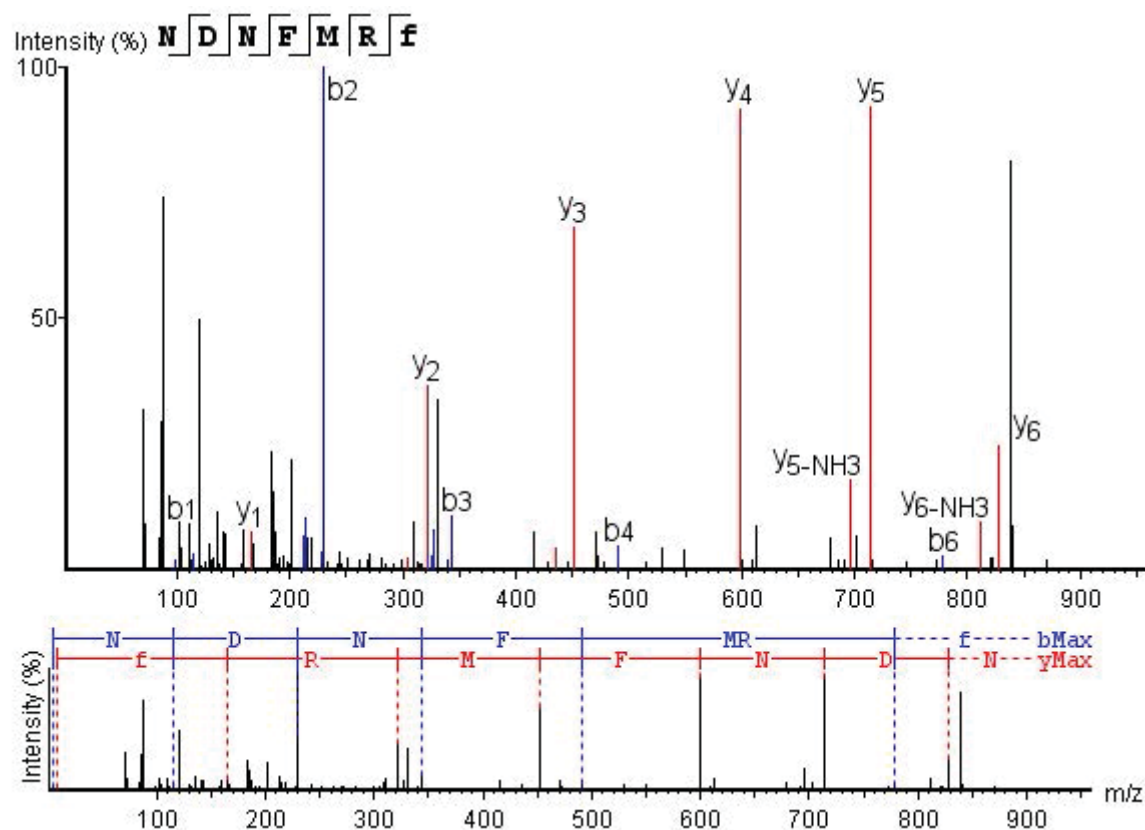
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					8
2	186.09	168.08	169.06	93.54	A	915.41	897.40	898.39	458.21	7
3	301.11	283.14	284.09	151.06	D	844.38	826.37	827.35	422.69	6
4	415.16	397.15	398.13	208.08	N	729.35	711.34	712.32	365.18	5
5	562.23	544.22	545.20	281.61	F	615.31	597.30	598.28	308.15	4
6	709.26	691.25	692.23	355.13	M(+15.99)	468.24	450.23	451.21	234.62	3
7	865.36	847.35	848.34	433.18	R	321.20	303.19	304.18	161.10	2
8					F(-.98)	165.10	147.09	148.08	83.05	1



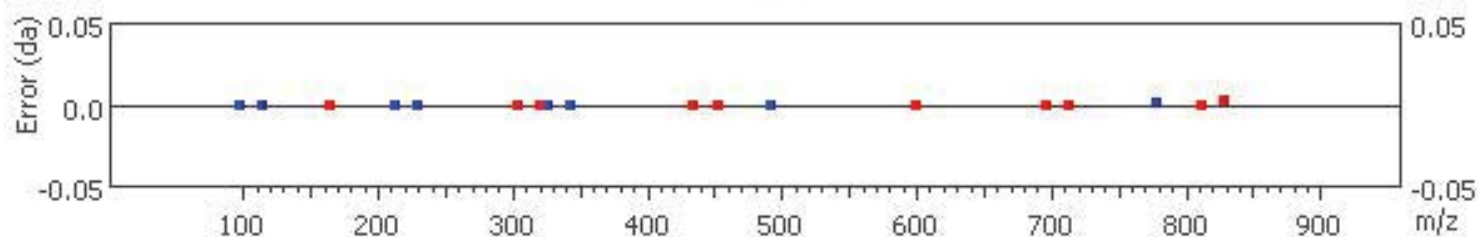


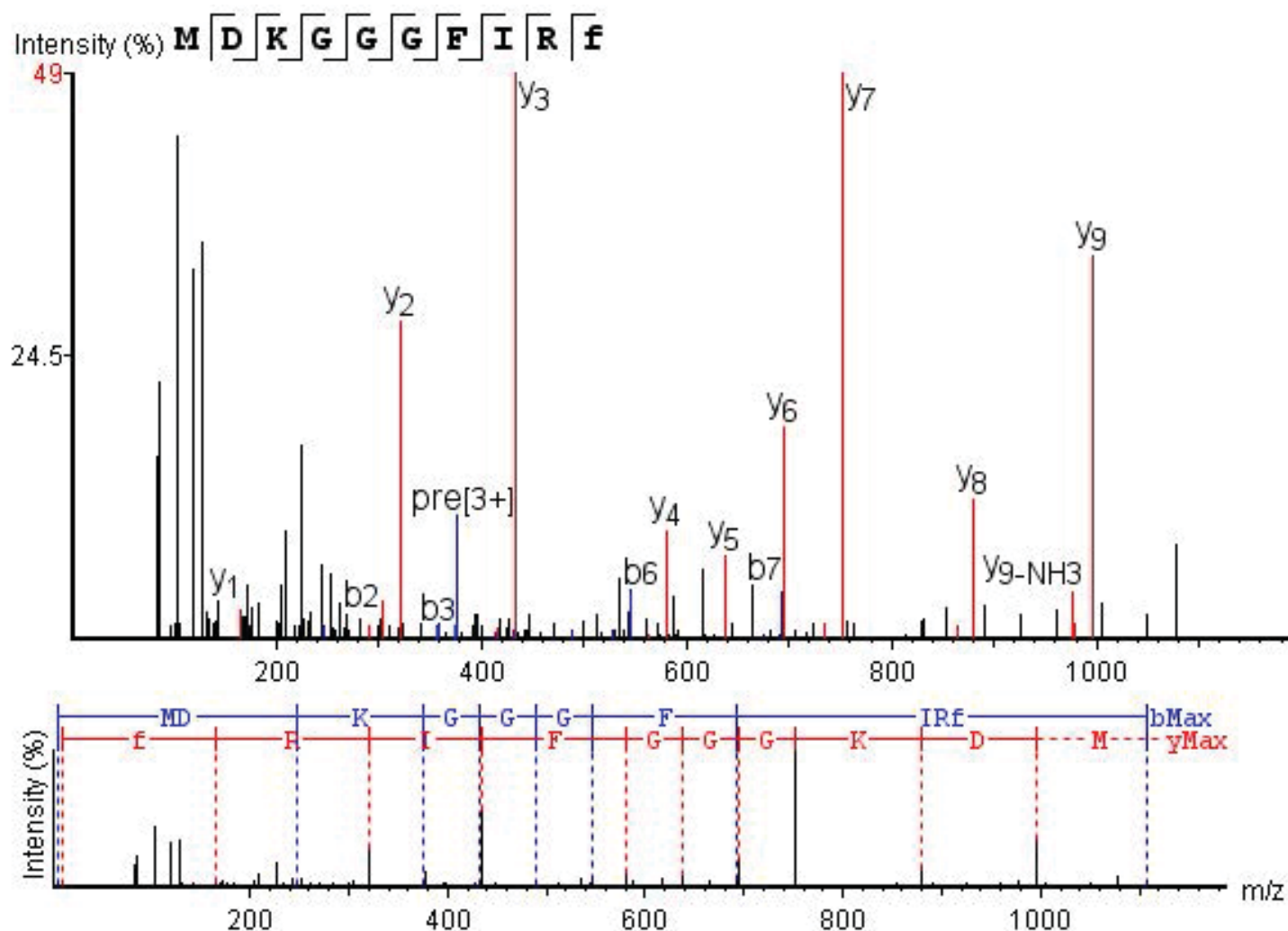
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.09	97.04	98.02	58.03	N					8
2	216.10	198.09	199.07	108.55	T	925.49	907.48	908.47	463.24	7
3	345.14	327.13	328.11	173.07	E	824.44	806.43	807.42	412.72	6
4	459.18	441.17	442.16	230.09	N	695.40	677.38	678.37	348.20	5
5	606.25	588.24	589.22	303.63	F	581.35	563.35	564.33	291.18	4
6	719.34	701.32	702.31	360.17	I	434.29	416.28	417.26	217.64	3
7	875.43	857.43	858.41	438.22	R	321.20	303.19	304.18	161.10	2
8					F(-.98)	165.10	147.09	148.08	83.05	1



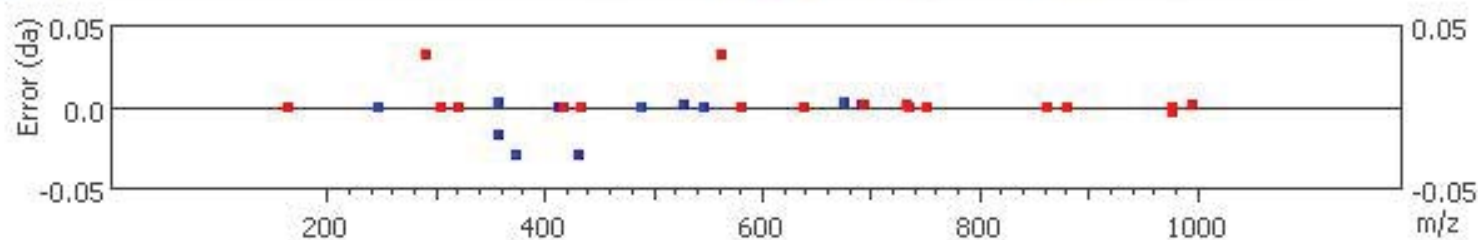


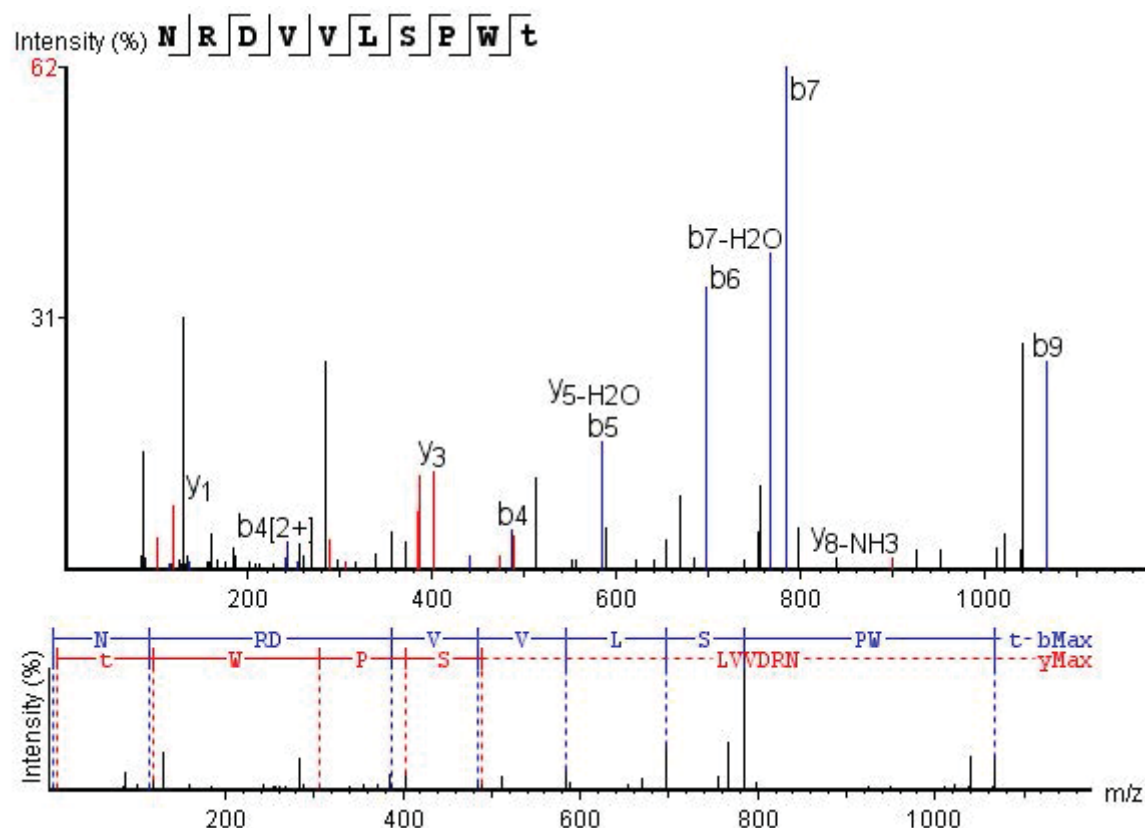
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					7
2	230.08	212.07	213.05	115.54	D	828.38	810.37	811.36	414.69	6
3	344.12	326.11	327.09	172.56	N	713.35	695.34	696.33	357.18	5
4	491.19	473.18	474.16	246.09	F	599.31	581.30	582.29	300.16	4
5	622.23	604.22	605.20	311.61	M	452.24	434.23	435.22	226.62	3
6	778.33	760.32	761.30	389.67	R	321.20	303.19	304.18	161.10	2
7					F(-.98)	165.10	147.09	148.08	83.05	1



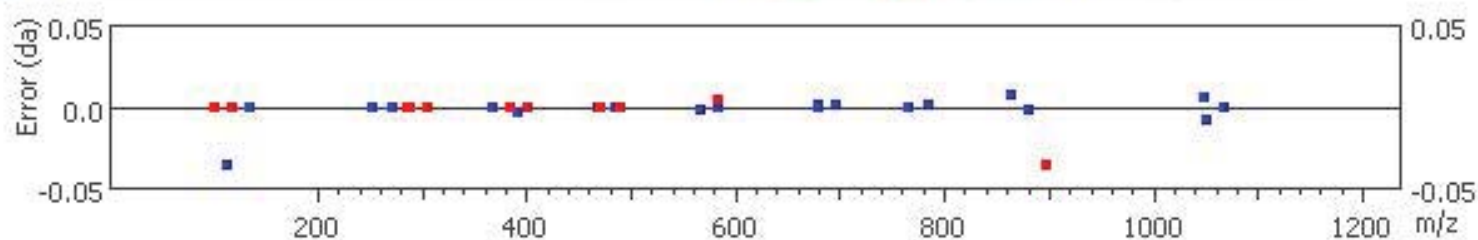


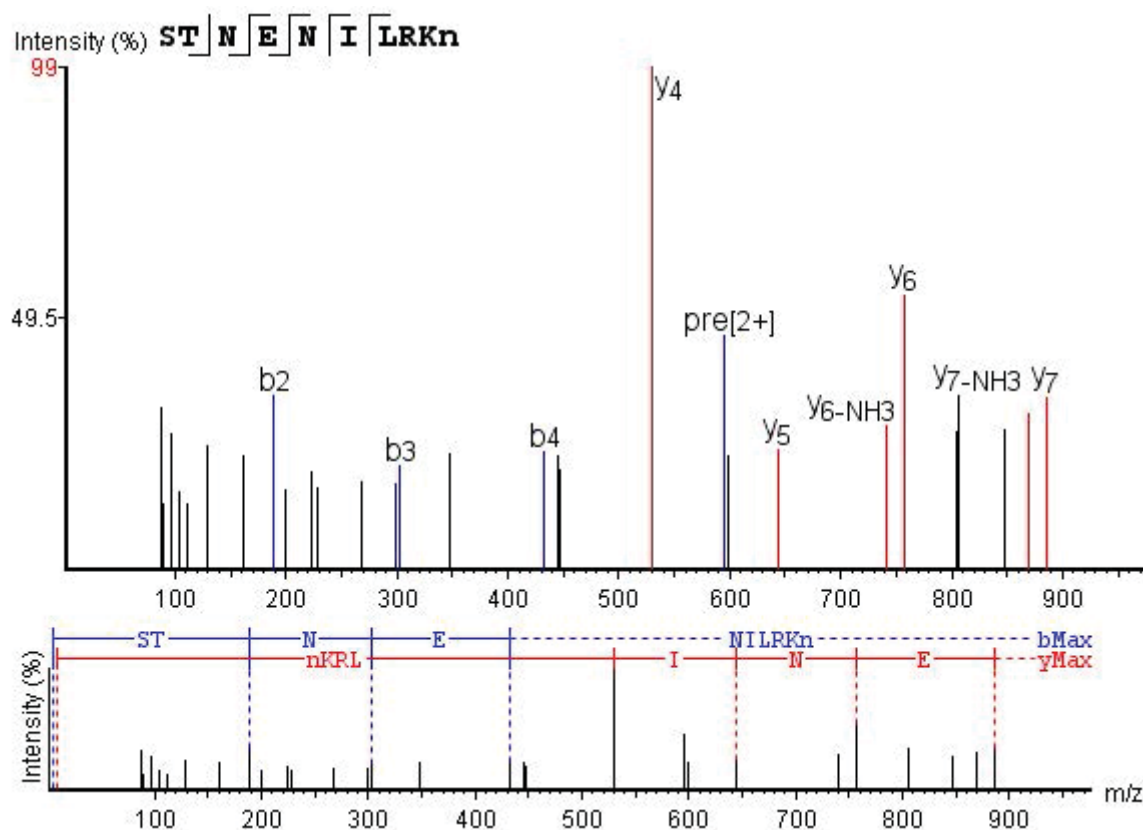
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	132.05	114.04	115.02	66.52	M					10
2	247.07	229.06	230.05	124.04	D	995.54	977.53	978.52	498.27	9
3	375.20	357.18	358.14	188.09	K	880.51	862.50	863.49	440.76	8
4	432.22	414.18	415.16	216.60	G	752.42	734.41	735.39	376.71	7
5	489.21	471.20	472.19	245.11	G	695.40	677.39	678.37	348.20	6
6	546.23	528.22	529.21	273.62	G	638.38	620.37	621.35	319.69	5
7	693.30	675.29	676.28	347.15	F	581.35	563.35	564.30	291.14	4
8	806.39	788.38	789.36	403.69	I	434.29	416.28	417.26	217.64	3
9	962.49	944.48	945.46	481.74	R	321.20	303.19	304.18	161.10	2
10					F(-.98)	165.10	147.09	148.08	83.05	1



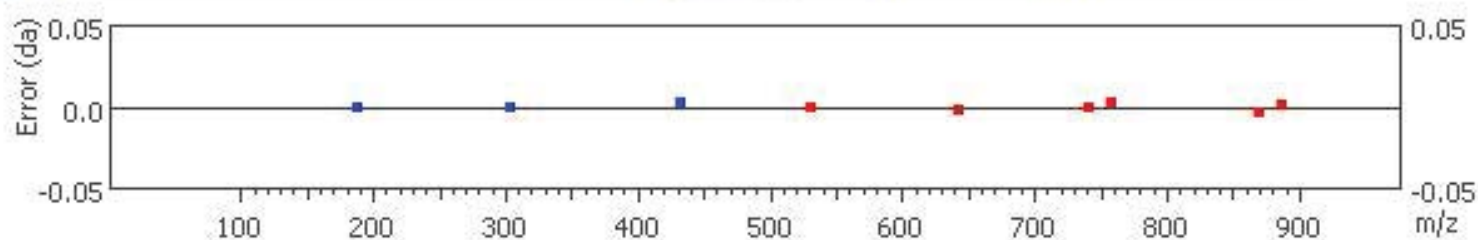


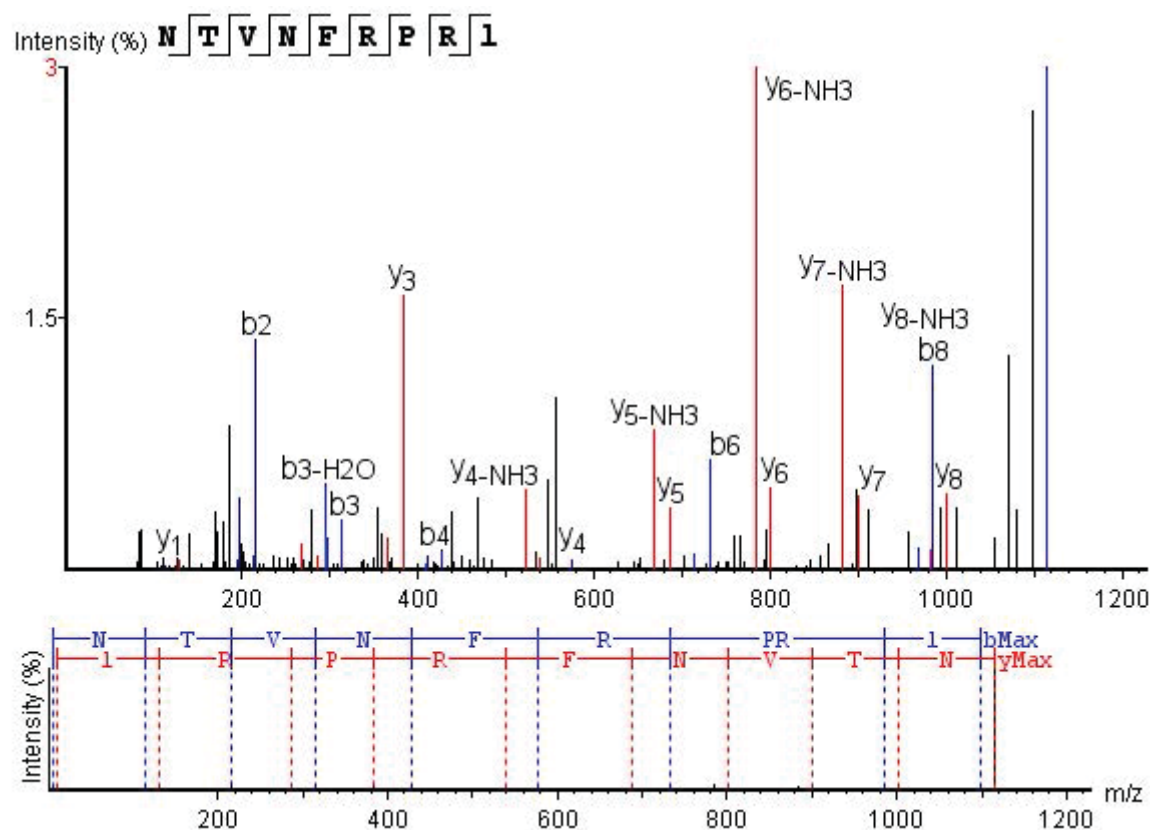
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.09	97.04	98.02	58.03	N					10
2	271.15	253.14	254.12	136.08	R	1071.59	1053.58	1054.57	536.30	9
3	386.18	368.17	369.15	193.59	D	915.49	897.48	898.50	458.25	8
4	485.25	467.24	468.22	243.12	V	800.47	782.46	783.44	400.73	7
5	584.31	566.31	567.29	292.66	V	701.40	683.39	684.37	351.20	6
6	697.40	679.39	680.37	349.20	L	602.33	584.31	585.30	301.66	5
7	784.43	766.42	767.40	392.72	S	489.24	471.24	472.22	245.12	4
8	881.49	863.47	864.46	441.24	P	402.21	384.20	385.19	201.61	3
9	1067.56	1049.55	1050.54	534.28	W	305.16	287.15	288.13	153.08	2
10					T(-98)	119.08	101.07	102.05	60.04	1



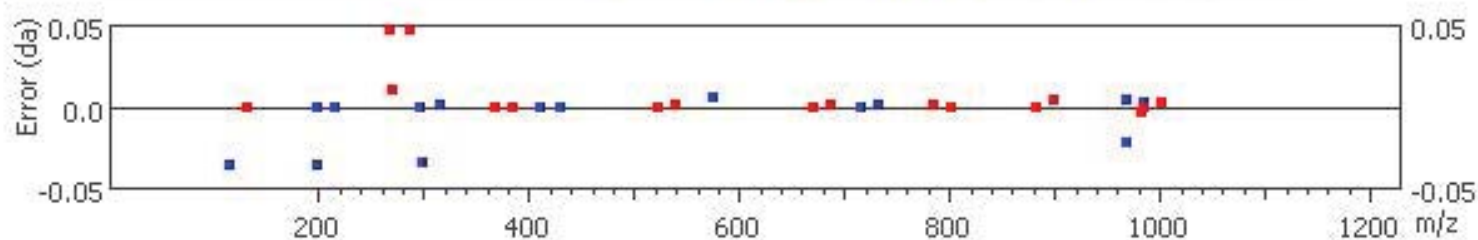


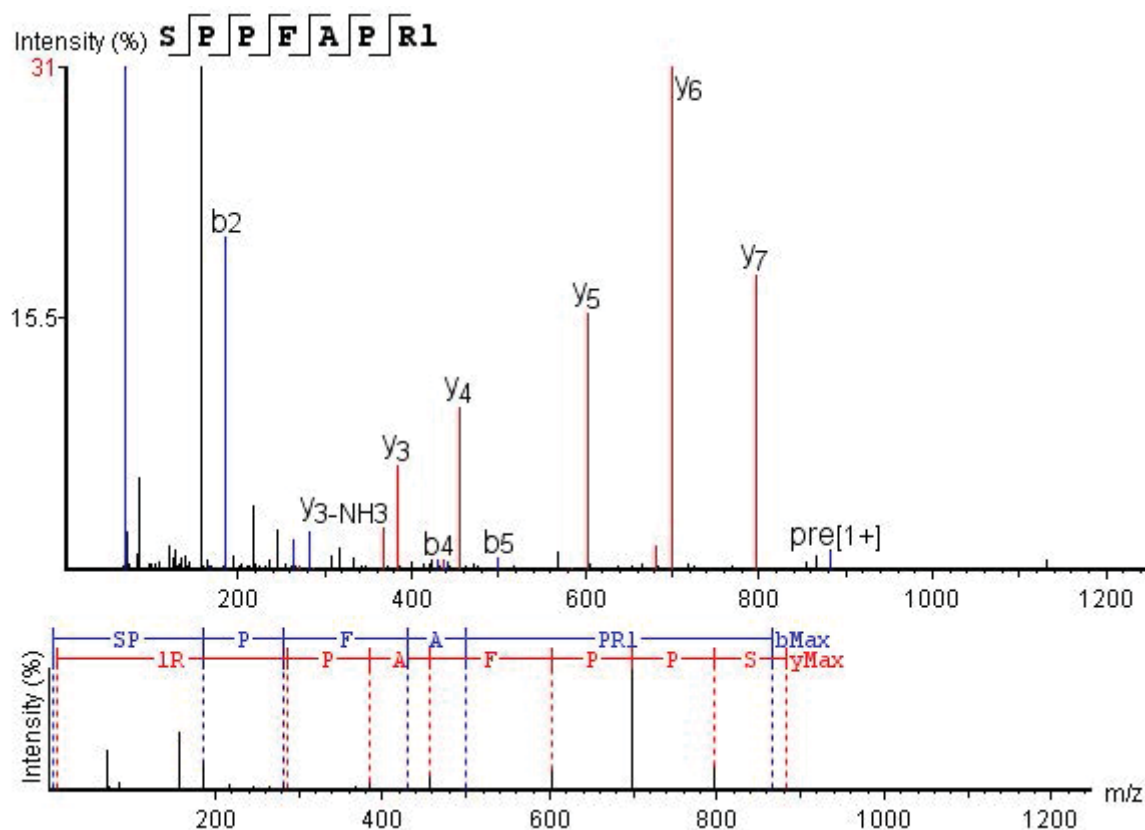
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					10
2	189.09	171.08	172.06	95.04	T	1101.60	1083.59	1084.57	551.30	9
3	303.13	285.12	286.10	152.07	N	1000.55	982.54	983.53	500.78	8
4	432.17	414.16	415.15	216.59	E	886.51	868.50	869.49	443.76	7
5	546.22	528.21	529.19	273.61	N	757.46	739.46	740.44	379.23	6
6	659.30	641.29	642.27	330.15	I	643.43	625.41	626.40	322.21	5
7	772.38	754.37	755.36	386.69	L	530.34	512.33	513.31	265.67	4
8	928.49	910.47	911.46	464.74	R	417.26	399.25	400.23	209.13	3
9	1056.58	1038.57	1039.55	528.79	K	261.16	243.15	244.13	131.08	2
10					N(.00)	133.06	115.05	116.03	67.03	1



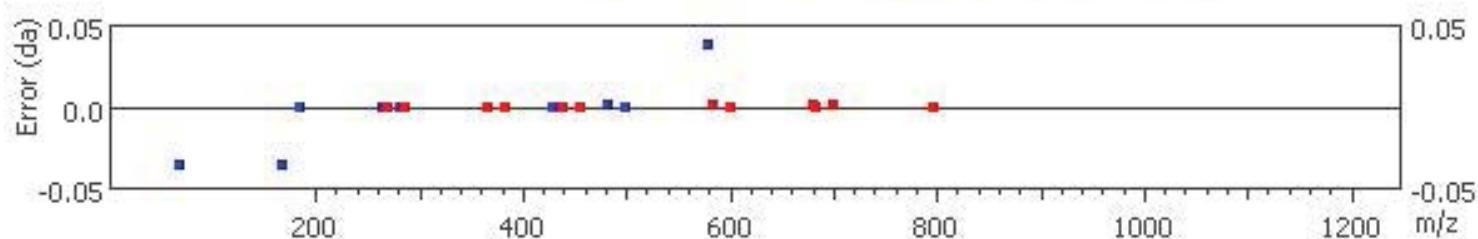


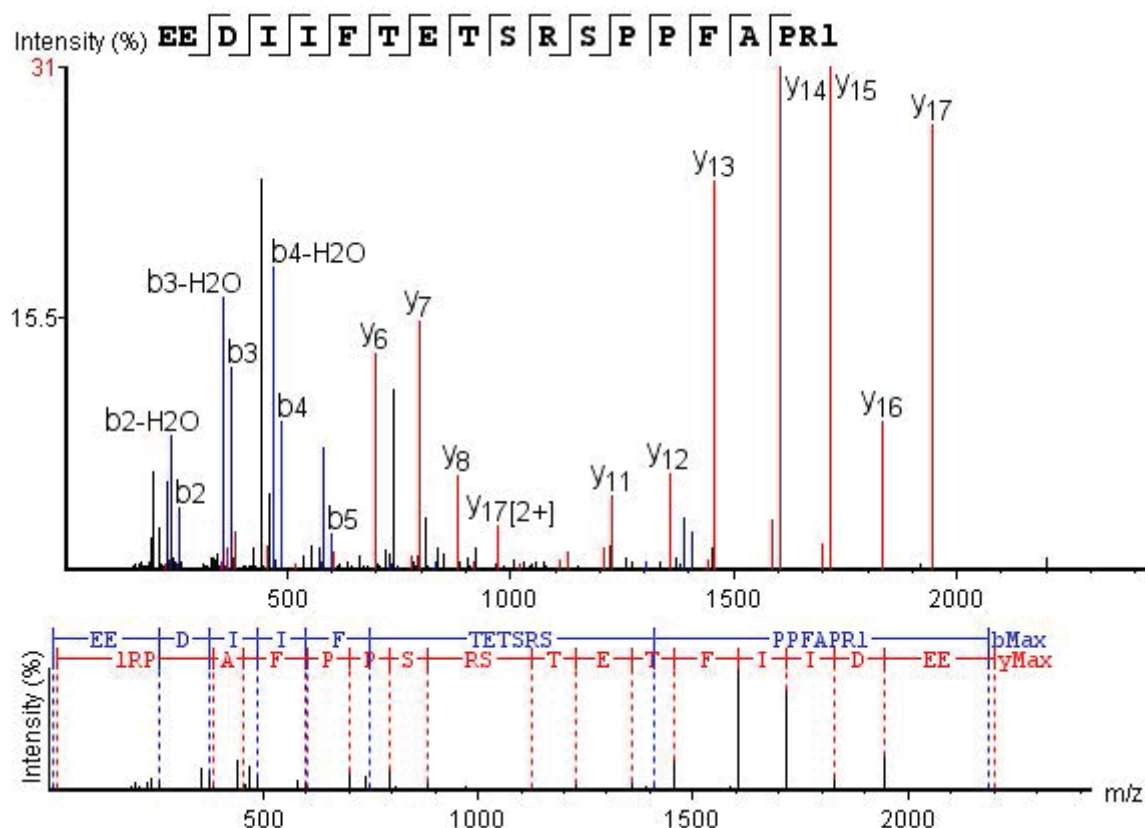
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.09	97.04	98.02	58.03	N					9
2	216.10	198.09	199.11	108.55	T	1001.60	983.59	984.57	501.30	8
3	315.17	297.15	298.18	158.08	V	900.55	882.54	883.52	450.78	7
4	429.21	411.20	412.18	215.10	N	801.48	783.47	784.46	401.24	6
5	576.27	558.27	559.25	288.64	F	687.44	669.43	670.41	344.22	5
6	732.38	714.37	715.35	366.69	R	540.37	522.36	523.35	270.69	4
7	829.43	811.42	812.41	415.22	P	384.27	366.26	367.24	192.64	3
8	985.53	967.55	968.50	493.27	R	287.17	269.16	270.18	144.11	2
9					L(-,98)	131.12	113.11	114.09	66.06	1



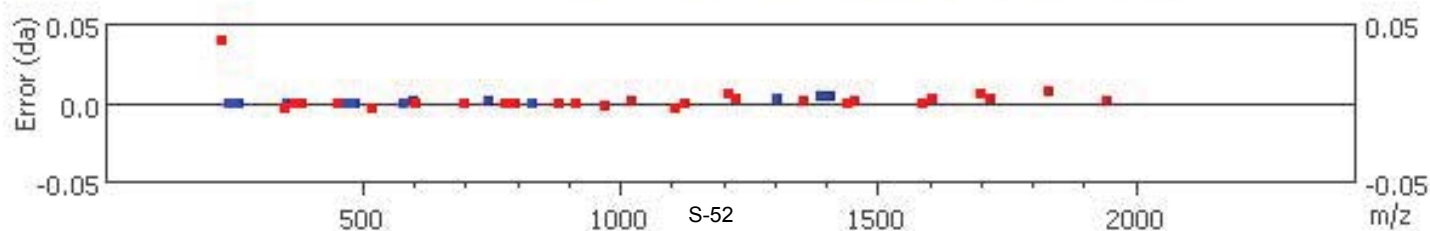


#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.07	71.01	44.52	S					8
2	185.09	167.12	168.07	93.05	P	796.48	778.47	779.46	398.74	7
3	282.14	264.13	265.12	141.57	P	699.43	681.42	682.40	350.21	6
4	429.21	411.20	412.19	215.11	F	602.38	584.37	585.35	301.69	5
5	500.25	482.24	483.22	250.63	A	455.31	437.30	438.28	228.15	4
6	597.30	579.25	580.28	299.15	P	384.27	366.26	367.24	192.64	3
7	753.40	735.39	736.38	377.20	R	287.22	269.21	270.19	144.11	2
8					L(-.98)	131.12	113.11	114.09	66.06	1



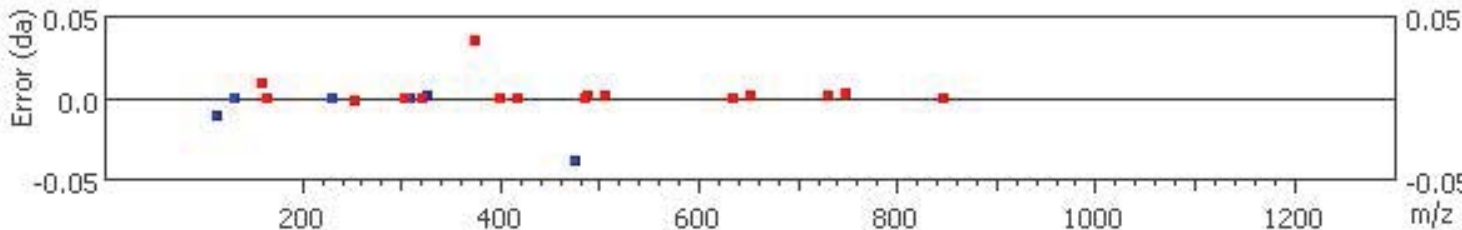


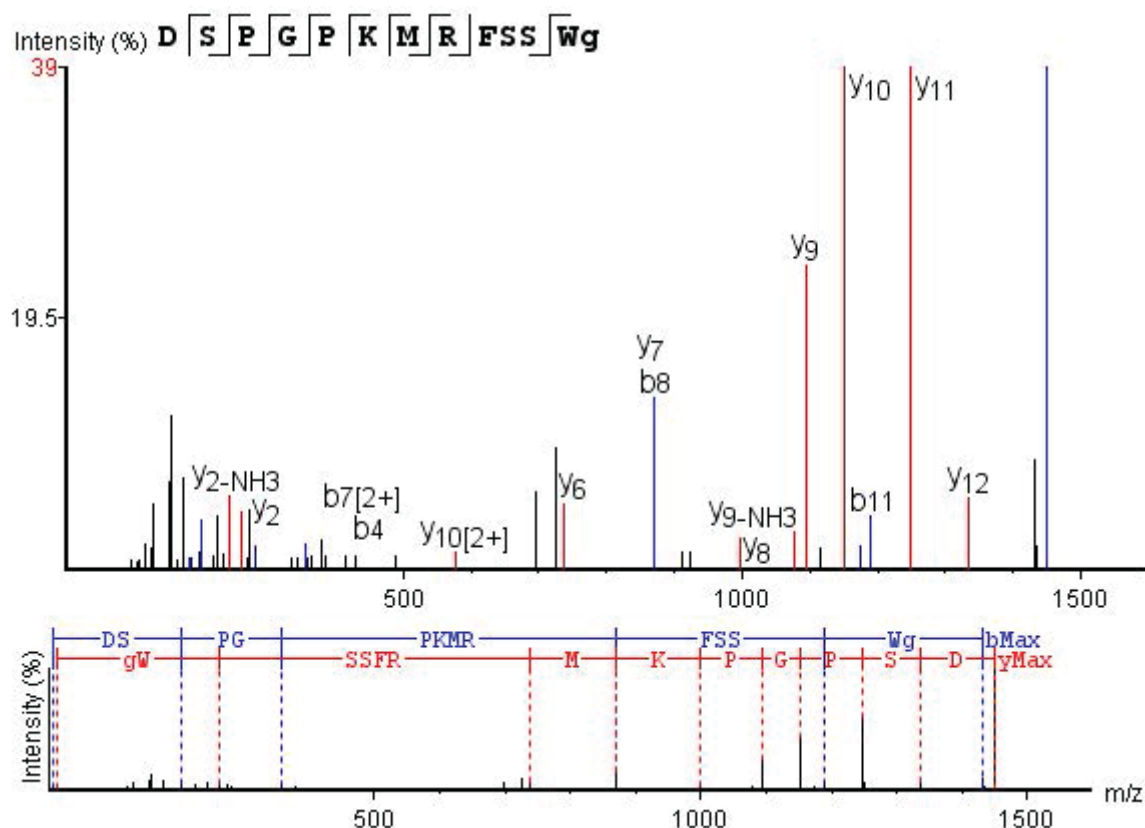
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	130.05	112.04	113.02	65.53	E					19
2	259.09	241.08	242.07	130.05	E	2075.09	2057.08	2058.06	1038.05	18
3	374.12	356.11	357.09	187.56	D	1946.05	1928.04	1929.02	973.53	17
4	487.20	469.19	470.18	244.10	I	1831.01	1813.01	1814.00	916.01	16
5	600.29	582.28	583.26	300.64	I	1717.93	1699.92	1700.91	859.47	15
6	747.35	729.35	730.33	374.18	F	1604.85	1586.84	1587.83	802.93	14
7	848.40	830.39	831.38	424.70	T	1457.78	1439.78	1440.76	729.39	13
8	977.45	959.44	960.42	489.22	E	1356.74	1338.73	1339.71	678.87	12
9	1078.49	1060.48	1061.47	539.75	T	1227.69	1209.69	1210.66	614.35	11
10	1165.53	1147.52	1148.50	583.26	S	1126.65	1108.64	1109.62	563.82	10
11	1321.63	1303.61	1304.60	661.31	R	1039.62	1021.61	1022.59	520.31	9
12	1408.65	1390.64	1391.63	704.83	S	883.51	865.50	866.49	442.26	8
13	1505.71	1487.70	1488.69	753.36	P	796.48	778.47	779.46	398.74	7
14	1602.77	1584.75	1585.74	801.88	P	699.43	681.42	682.40	350.22	6
15	1749.83	1731.82	1732.81	875.42	F	602.38	584.37	585.35	301.69	5
16	1820.87	1802.86	1803.84	910.94	A	455.31	437.30	438.28	228.11	4
17	1917.92	1899.91	1900.90	959.46	P	384.27	366.26	367.25	192.64	3
18	2074.02	2056.01	2057.00	1037.51	R	287.22	269.21	270.19	144.11	2
19					L(-.98)	131.12	113.11	114.09	66.06	1



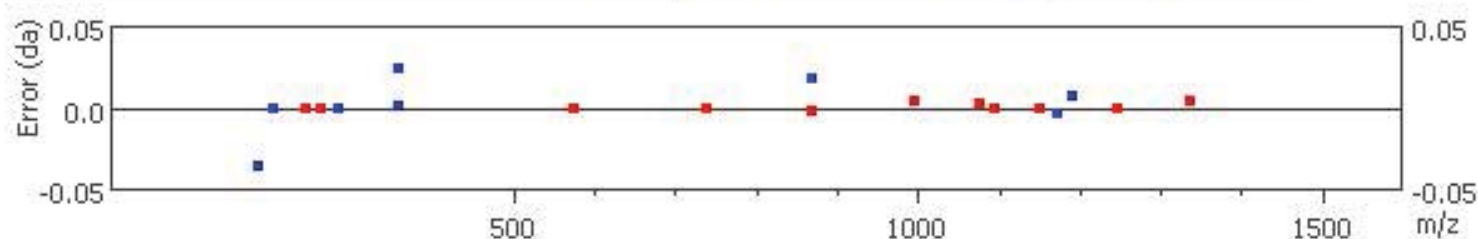


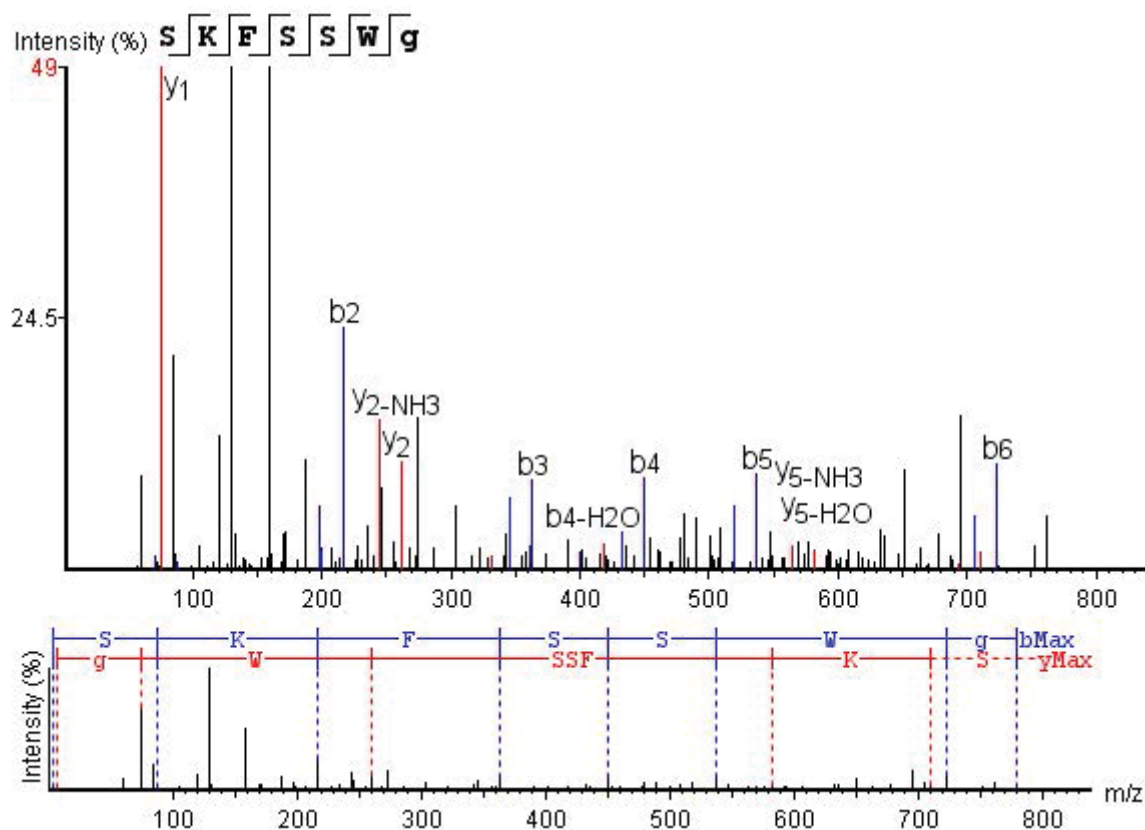
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	132.05	114.04	115.02	66.52	M					8
2	231.12	213.11	214.09	116.07	V	848.48	830.47	831.45	424.74	7
3	328.17	310.16	311.14	164.58	P	749.41	731.40	732.38	375.17	6
4	475.28	457.23	458.21	238.12	F	652.35	634.34	635.33	326.68	5
5	562.27	544.26	545.24	281.63	S	505.29	487.28	488.26	253.15	4
6	659.32	641.31	642.30	330.16	P	418.25	400.25	401.23	209.63	3
7	815.42	797.41	798.40	408.21	R	321.20	303.19	304.18	161.09	2
8					F(-.98)	165.10	147.09	148.08	83.05	1



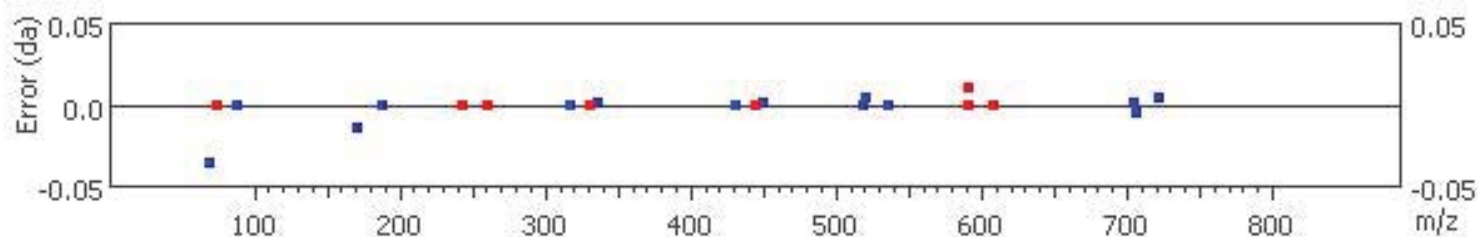


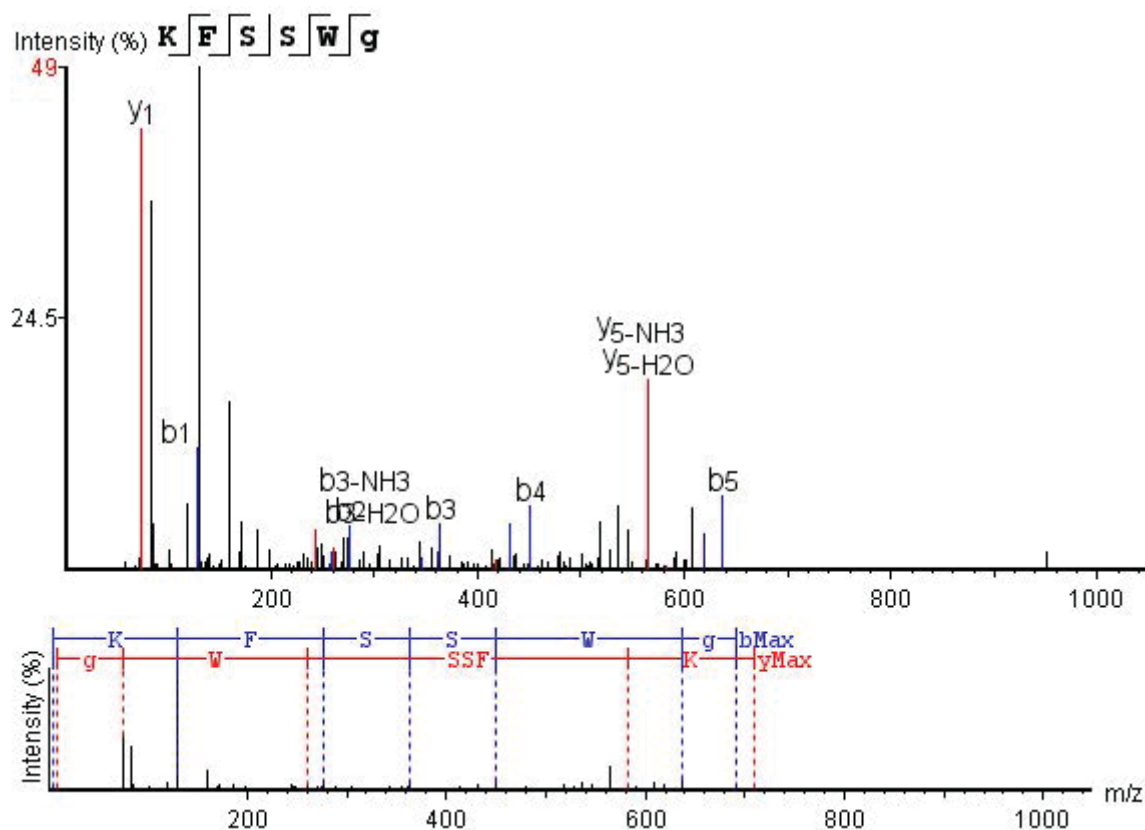
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					13
2	203.07	185.09	186.04	102.03	S	1335.66	1317.65	1318.64	668.33	12
3	300.12	282.11	283.09	150.56	P	1248.63	1230.62	1231.60	624.82	11
4	357.14	339.13	340.11	179.07	G	1151.58	1133.57	1134.55	576.29	10
5	454.19	436.18	437.17	227.60	P	1094.56	1076.55	1077.53	547.78	9
6	582.29	564.28	565.26	291.64	K	997.50	979.49	980.48	499.25	8
7	713.33	695.32	696.30	357.14	M	869.41	851.40	852.38	435.20	7
8	869.41	851.42	852.40	435.22	R	738.37	720.36	721.34	369.68	6
9	1016.50	998.49	999.47	508.75	F	582.27	564.26	565.24	291.63	5
10	1103.53	1085.52	1086.50	552.27	S	435.20	417.19	418.17	218.10	4
11	1190.55	1172.55	1173.54	595.78	S	348.17	330.16	331.14	174.58	3
12	1376.64	1358.63	1359.62	688.82	W	261.13	243.12	244.11	131.07	2
13					G(-.98)	75.06	57.04	58.03	38.03	1



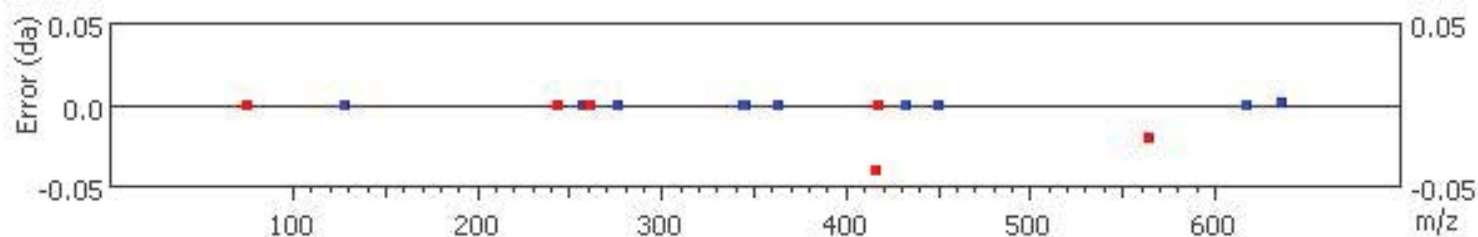


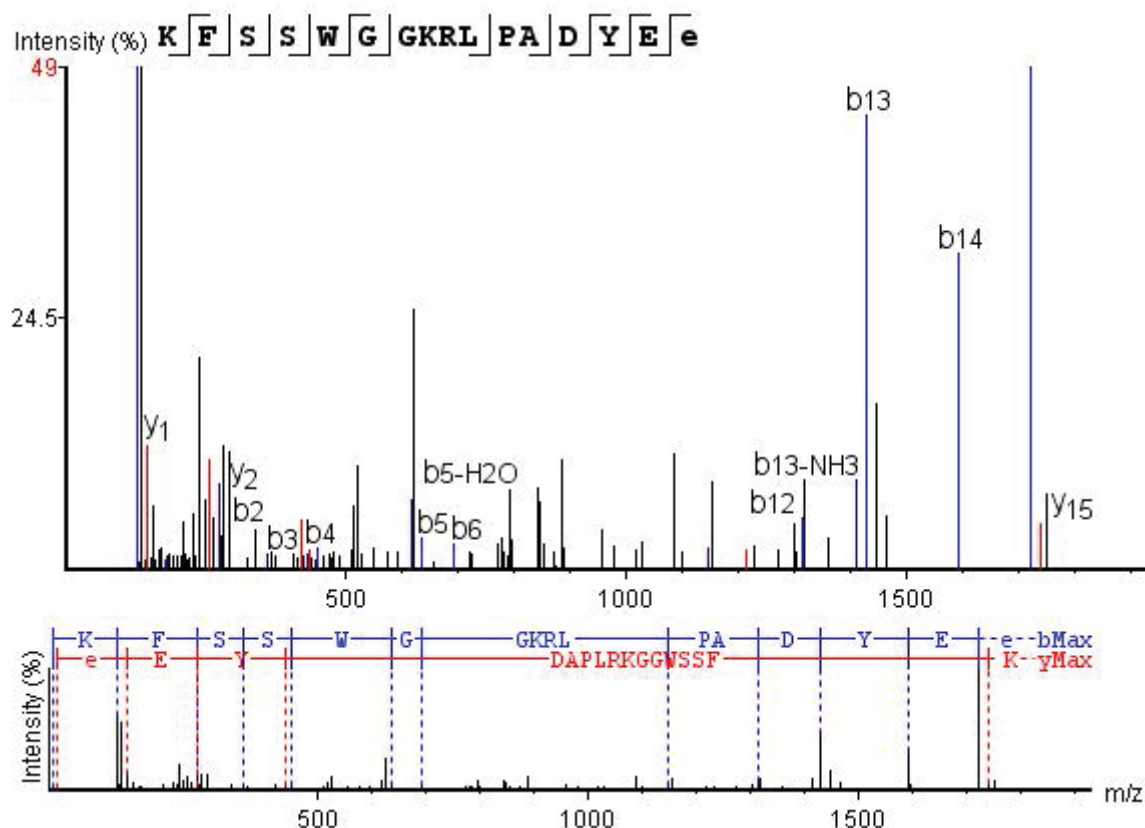
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.07	71.01	44.52	S					7
2	189.09	171.09	172.06	95.04	T	710.33	692.32	693.30	355.66	6
3	336.15	318.14	319.13	168.58	F	609.28	591.26	592.25	305.14	5
4	450.20	432.19	433.17	225.60	N	462.21	444.20	445.18	231.60	4
5	537.23	519.22	520.20	269.12	S	348.17	330.16	331.14	174.58	3
6	723.30	705.30	706.29	362.16	W	261.13	243.12	244.11	131.07	2
7					G(-.98)	75.06	57.04	58.03	38.03	1



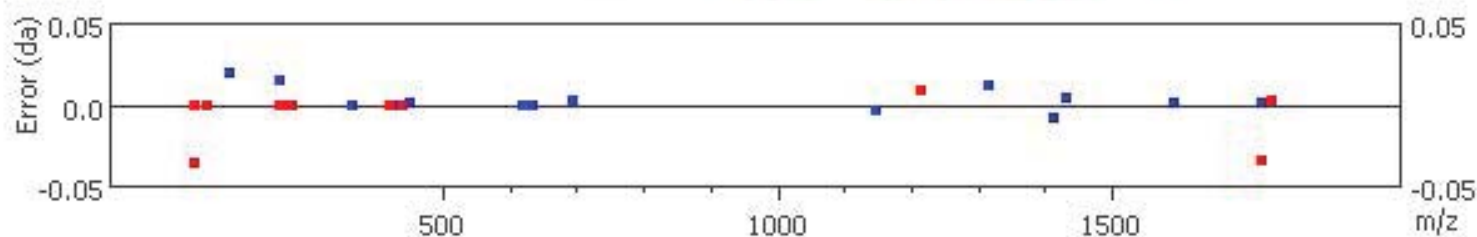


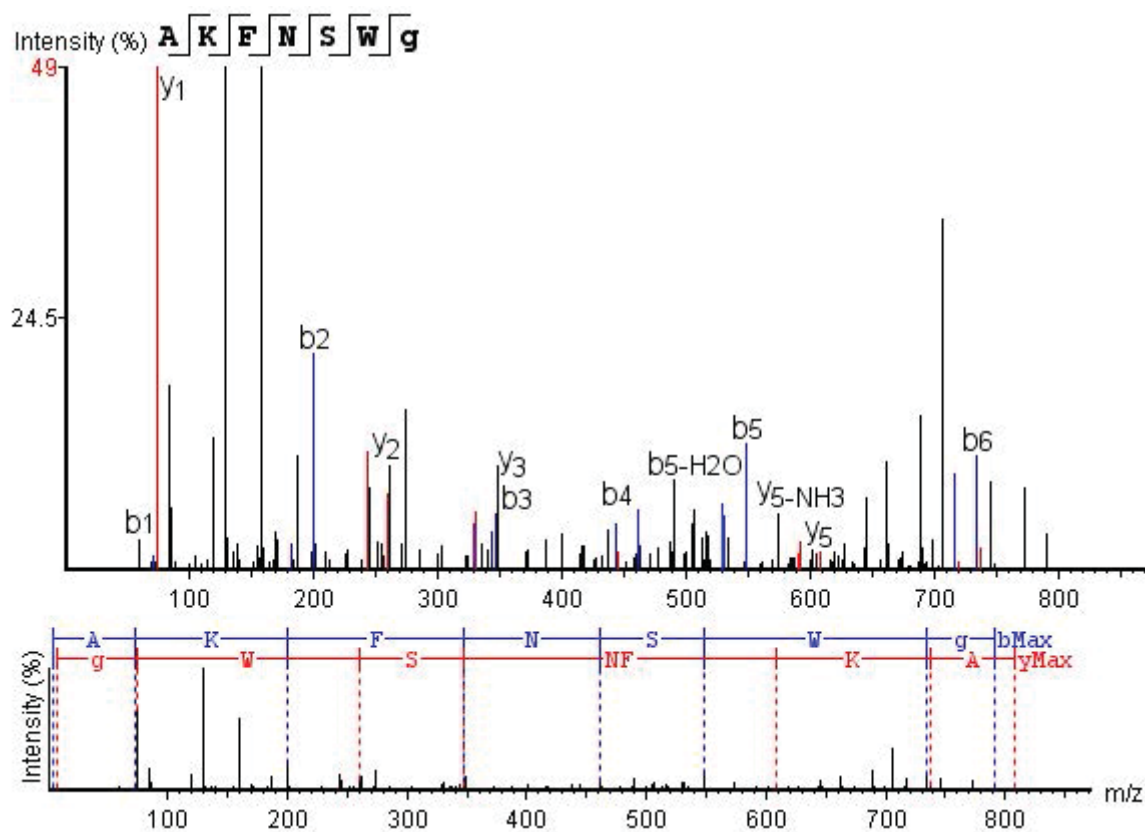
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	129.10	111.09	112.08	65.05	K					6
2	276.17	258.16	259.14	138.59	F	582.27	564.28	565.24	291.63	5
3	363.20	345.19	346.18	182.10	S	435.20	417.23	418.17	218.10	4
4	450.23	432.22	433.21	225.62	S	348.17	330.16	331.14	174.58	3
5	636.31	618.30	619.29	318.66	W	261.13	243.12	244.11	131.07	2
6					G(-98)	75.06	57.04	58.03	38.03	1



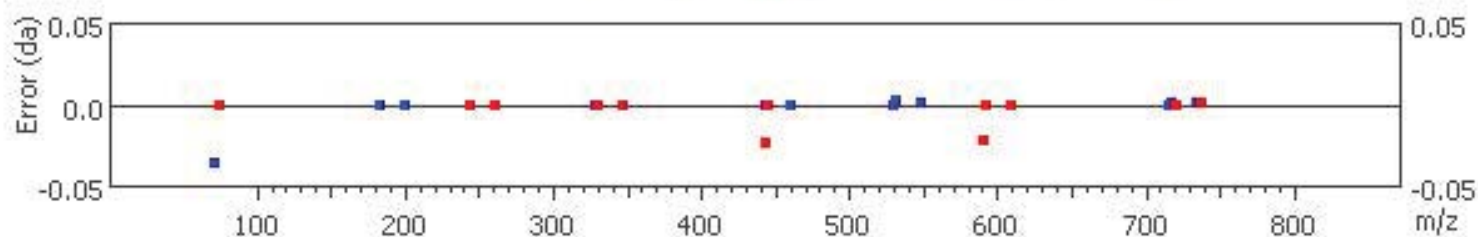


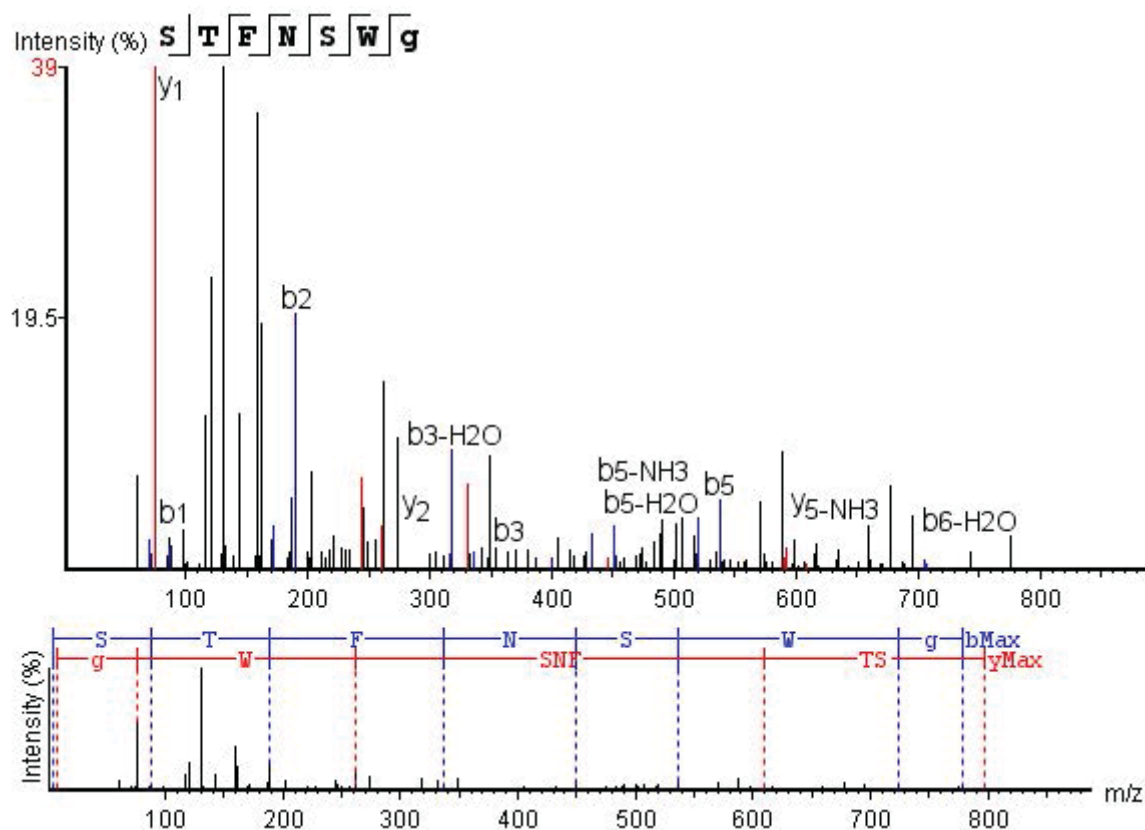
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	129.10	111.09	112.08	65.05	K					16
2	276.17	258.15	259.14	138.59	F	1740.83	1722.86	1723.81	870.92	15
3	363.20	345.19	346.18	182.08	S	1593.77	1575.76	1576.74	797.38	14
4	450.23	432.22	433.21	225.62	S	1506.73	1488.72	1489.71	753.87	13
5	636.31	618.30	619.29	318.66	W	1419.70	1401.69	1402.67	710.35	12
6	693.33	675.33	676.31	347.17	G	1233.62	1215.61	1216.59	617.31	11
7	750.36	732.35	733.33	375.68	G	1176.60	1158.59	1159.57	588.80	10
8	878.45	860.44	861.43	439.73	K	1119.58	1101.57	1102.55	560.29	9
9	1034.55	1016.54	1017.53	517.78	R	991.48	973.47	974.46	496.24	8
10	1147.64	1129.63	1130.61	574.32	L	835.38	817.37	818.36	418.19	7
11	1244.69	1226.68	1227.66	622.85	P	722.30	704.29	705.27	361.65	6
12	1315.71	1297.72	1298.70	658.36	A	625.25	607.24	608.22	313.12	5
13	1430.75	1412.74	1413.74	715.88	D	554.21	536.20	537.18	277.60	4
14	1593.82	1575.81	1576.79	797.41	Y	439.18	421.17	422.16	220.09	3
15	1722.86	1704.85	1705.83	861.93	E	276.12	258.11	259.09	138.56	2
16					E(-.98)	147.08	129.10	130.05	74.04	1



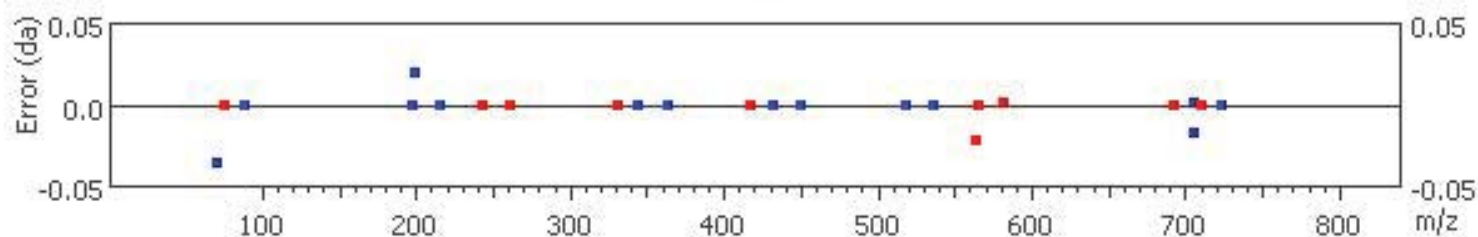


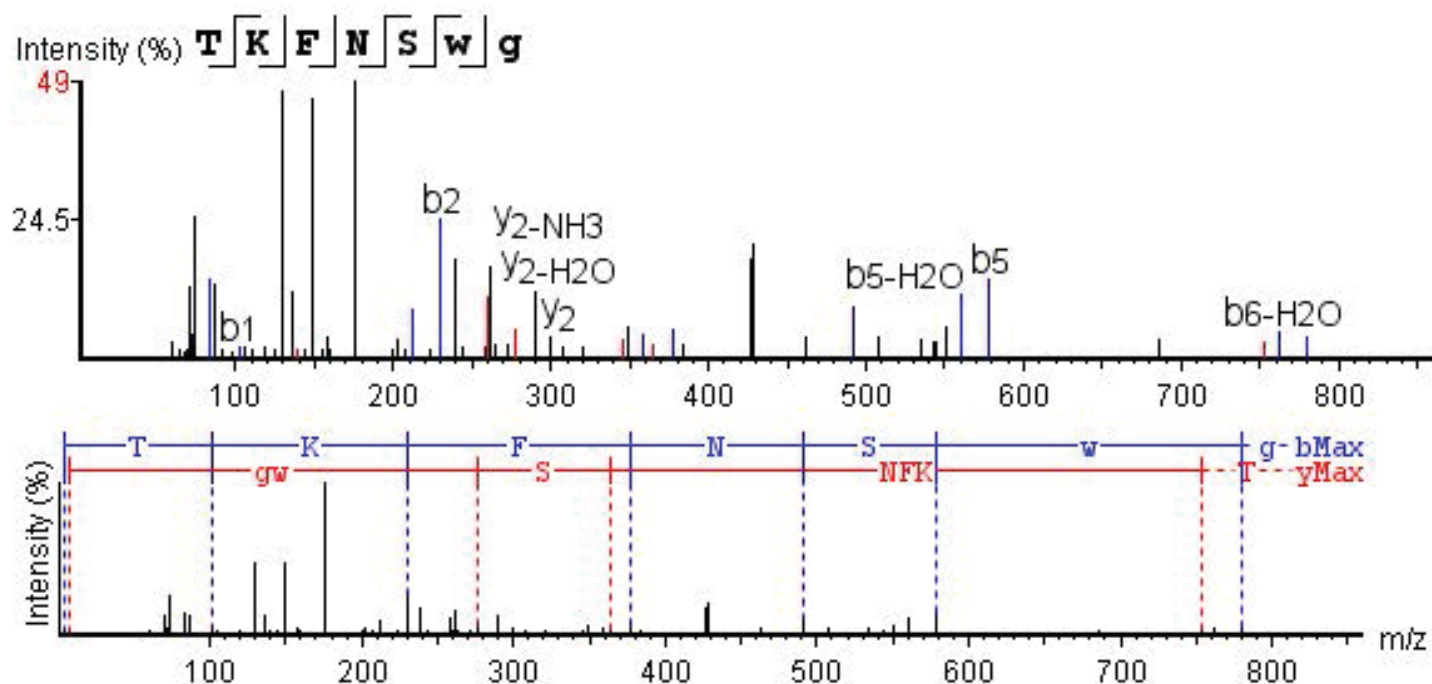
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	72.08	54.03	55.02	36.52	A					7
2	200.14	182.13	183.11	100.57	K	737.37	719.36	720.35	369.19	6
3	347.21	329.20	330.18	174.10	F	609.28	591.29	592.25	305.14	5
4	461.25	443.24	444.22	231.13	N	462.21	444.22	445.18	231.60	4
5	548.28	530.27	531.25	274.64	S	348.17	330.16	331.14	174.58	3
6	734.36	716.35	717.33	367.68	W	261.13	243.12	244.11	131.07	2
7					G(-.98)	75.06	57.04	58.03	38.03	1



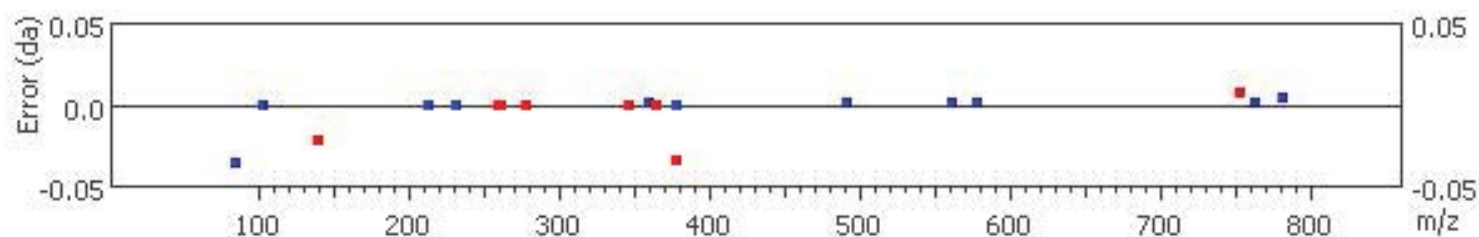


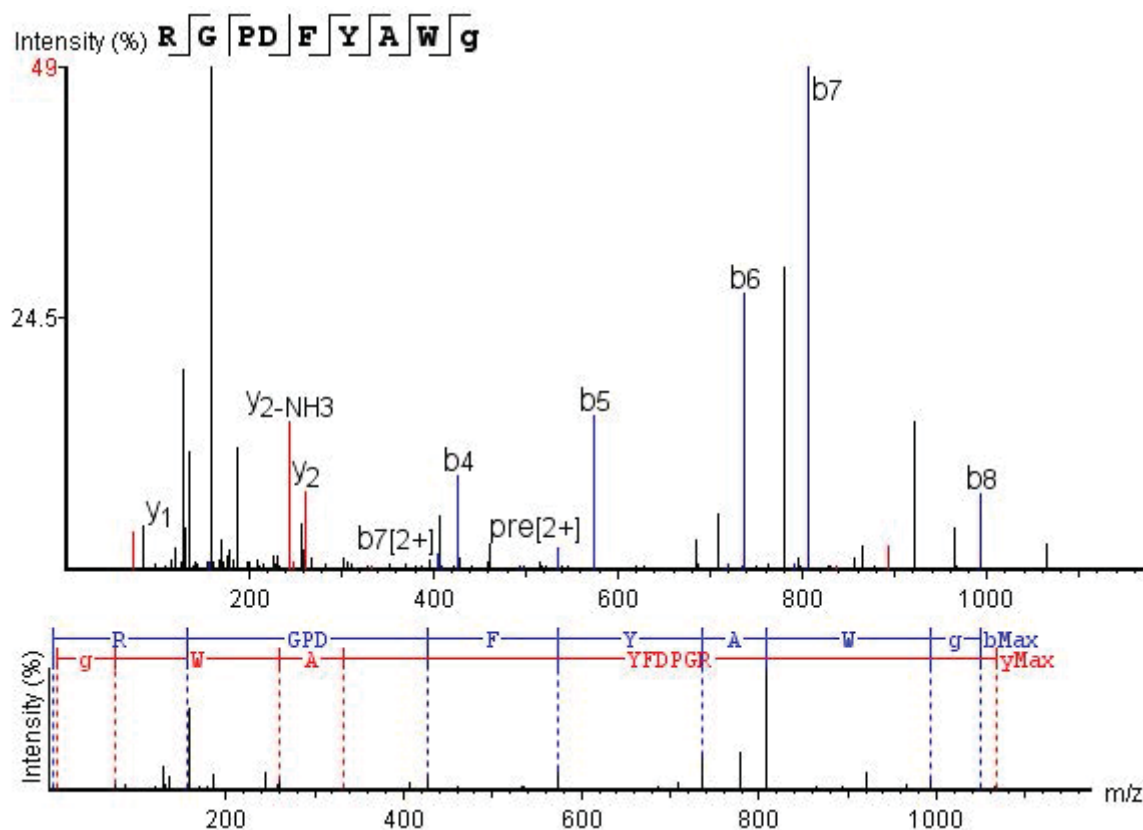
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.07	71.01	44.52	S					7
2	216.13	198.12	199.09	108.57	K	710.36	692.35	693.33	355.68	6
3	363.20	345.19	346.18	182.10	F	582.27	564.28	565.24	291.63	5
4	450.23	432.22	433.21	225.62	S	435.20	417.19	418.17	218.10	4
5	537.27	519.26	520.24	269.13	S	348.17	330.16	331.14	174.58	3
6	723.35	705.33	706.34	362.17	W	261.13	243.12	244.11	131.07	2
7					G(-.98)	75.06	57.04	58.03	38.03	1



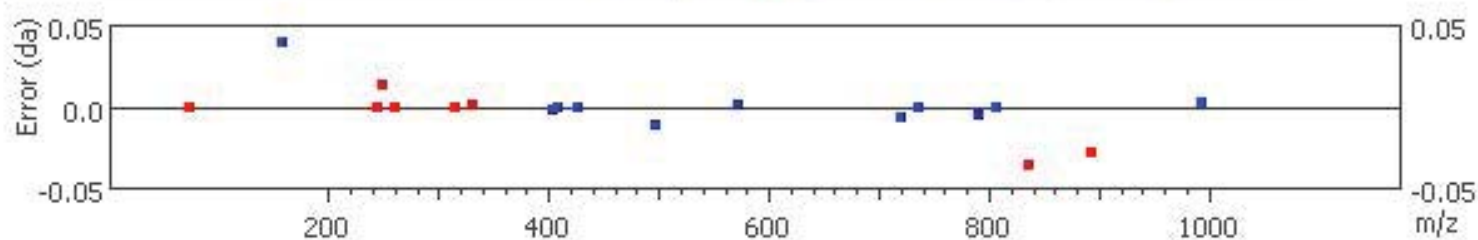


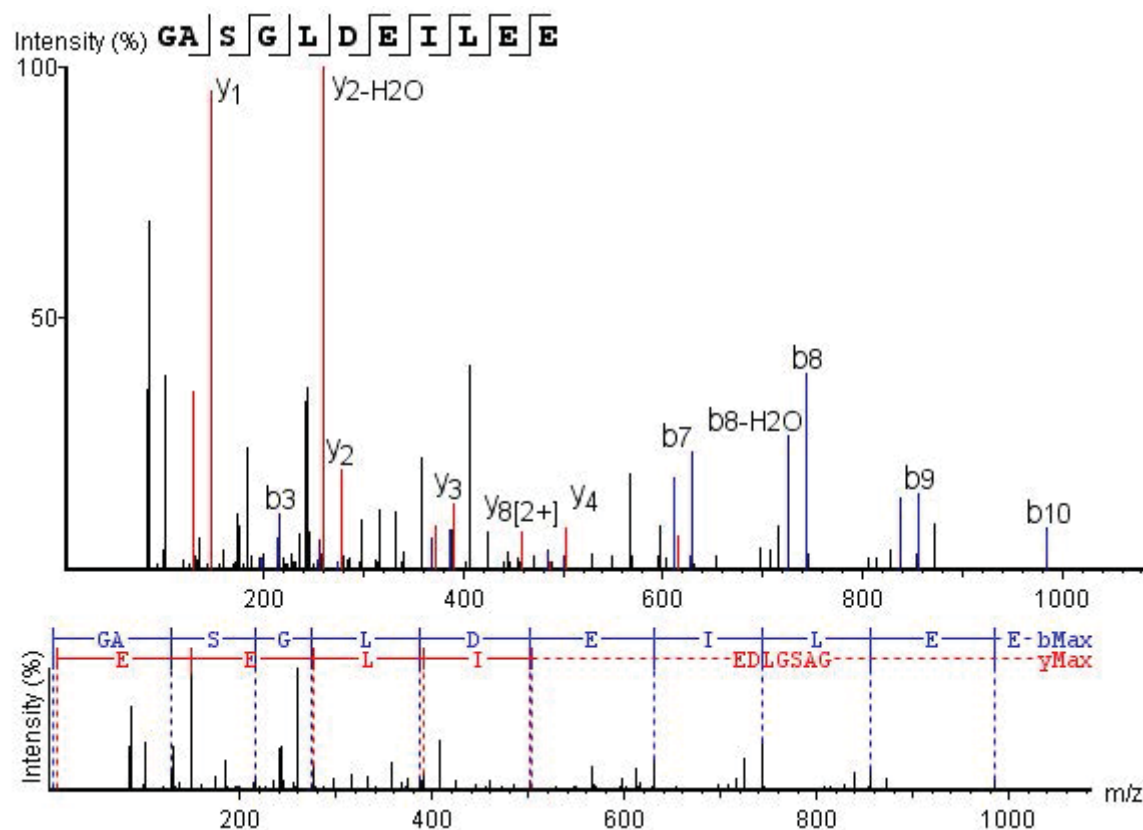
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.08	85.03	51.53	T					7
2	230.15	212.14	213.12	115.58	K	753.36	735.36	736.34	377.22	6
3	377.22	359.21	360.19	189.11	F	625.27	607.26	608.25	313.14	5
4	491.26	473.25	474.23	246.13	N	478.20	460.19	461.18	239.60	4
5	578.29	560.28	561.27	289.65	S	364.16	346.15	347.13	182.58	3
6	780.36	762.35	763.34	390.68	W(+15.99)	277.13	259.12	260.10	139.09	2
7					G(-.98)	75.06	57.04	58.03	38.03	1



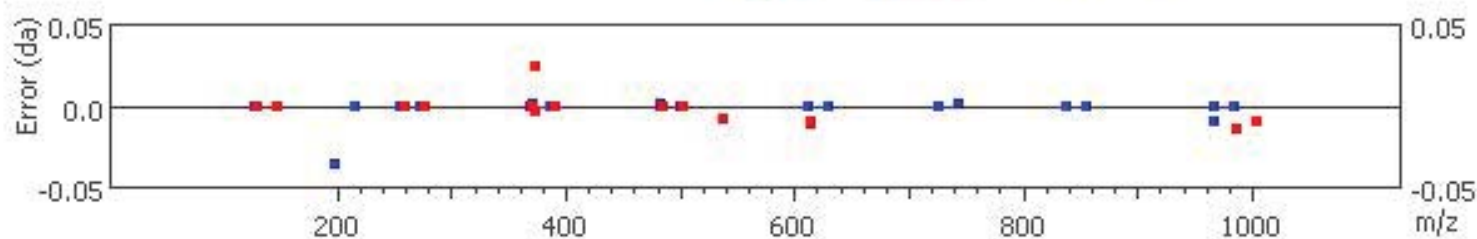


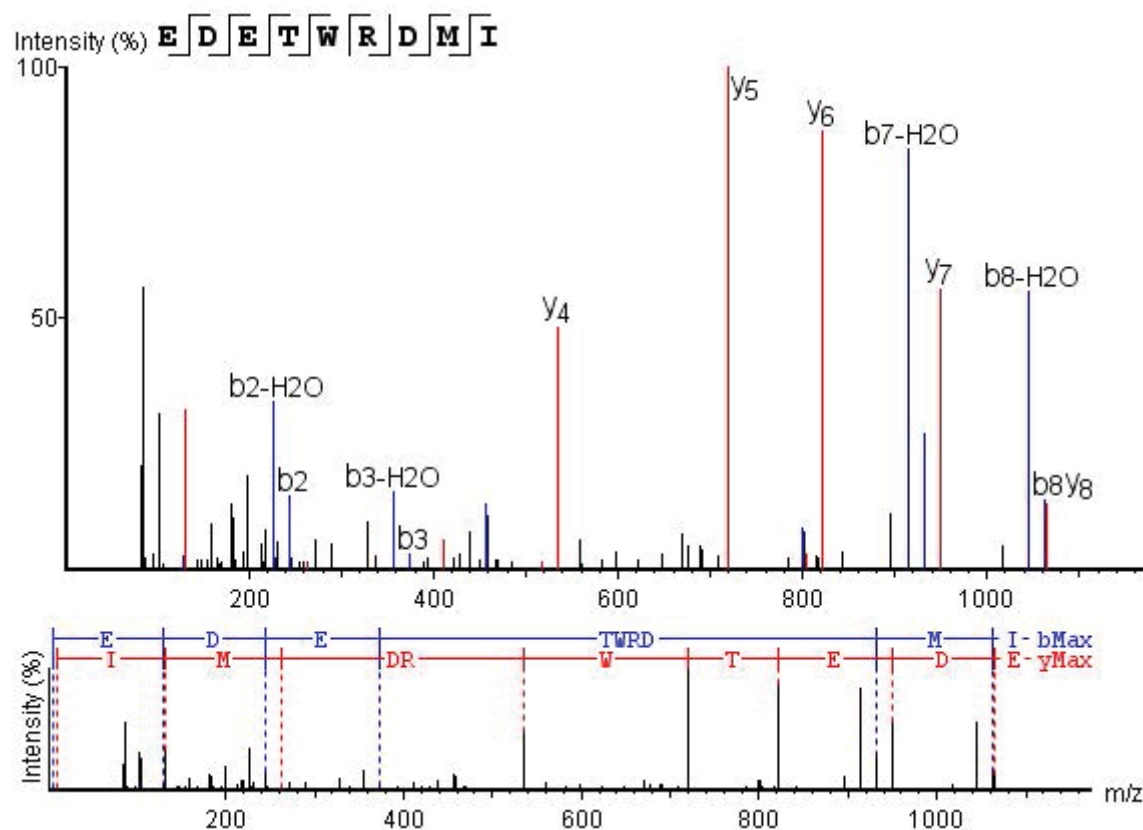
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	157.07	139.10	140.08	79.05	R					9
2	214.13	196.12	197.10	107.57	G	911.40	893.42	894.38	456.20	8
3	311.18	293.17	294.16	156.09	P	854.38	836.41	837.36	427.69	7
4	426.21	408.20	409.18	213.61	D	757.33	739.32	740.30	379.17	6
5	573.28	555.27	556.25	287.14	F	642.30	624.29	625.28	321.65	5
6	736.34	718.33	719.32	368.67	Y	495.24	477.22	478.21	248.10	4
7	807.38	789.37	790.36	404.19	A	332.17	314.16	315.14	166.59	3
8	993.45	975.45	976.43	497.24	W	261.13	243.12	244.11	131.07	2
9					G(-.98)	75.06	57.04	58.03	38.03	1



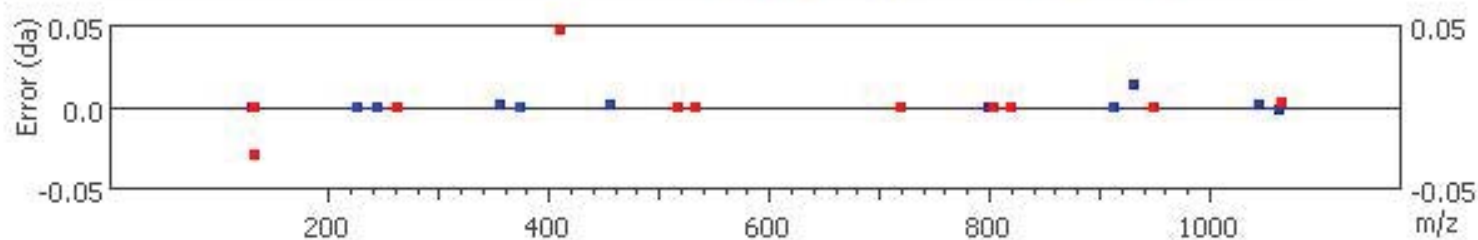


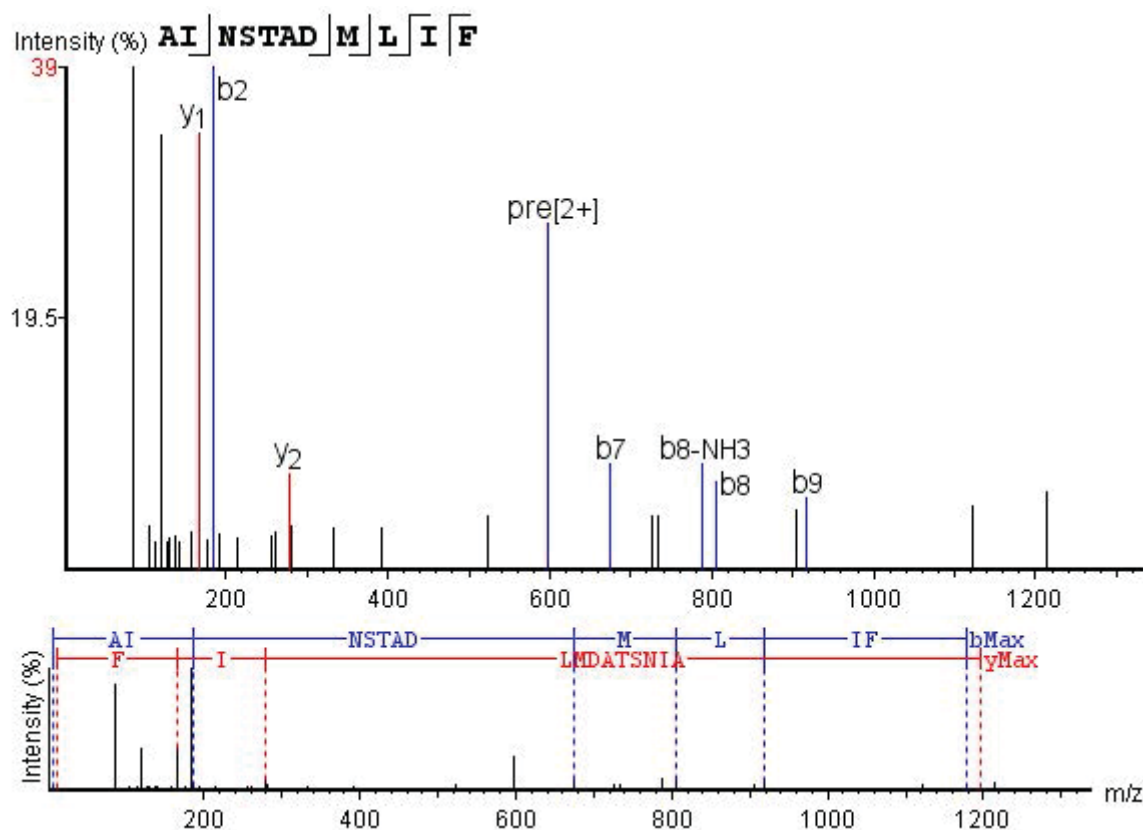
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					11
2	129.07	111.06	112.04	65.03	A	1075.52	1057.50	1058.49	538.27	10
3	216.10	198.09	199.11	108.55	S	1004.49	986.48	987.45	502.74	9
4	273.12	255.11	256.09	137.06	G	917.45	899.44	900.42	459.22	8
5	386.20	368.19	369.18	193.60	L	860.42	842.41	843.40	430.71	7
6	501.23	483.22	484.20	251.12	D	747.34	729.33	730.31	374.17	6
7	630.27	612.26	613.25	315.64	E	632.31	614.31	615.30	316.66	5
8	743.36	725.35	726.33	372.18	I	503.27	485.26	486.24	252.14	4
9	856.44	838.43	839.41	428.72	L	390.19	372.18	373.14	195.59	3
10	985.48	967.47	968.47	493.24	E	277.10	259.09	260.08	139.05	2
11					E	148.06	130.05	131.03	74.53	1



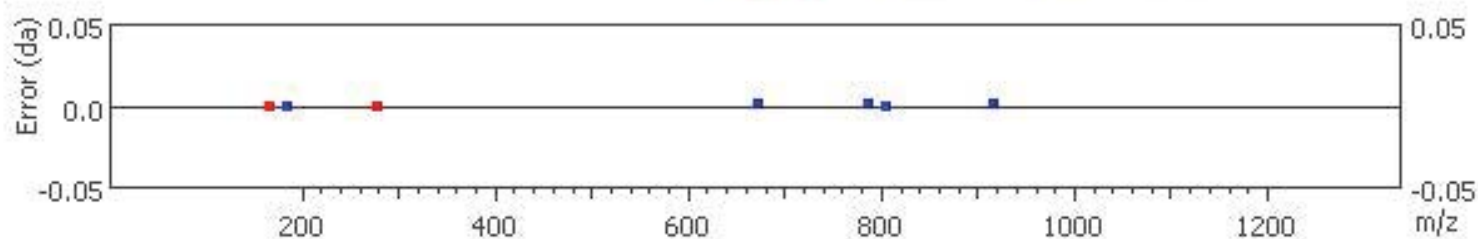


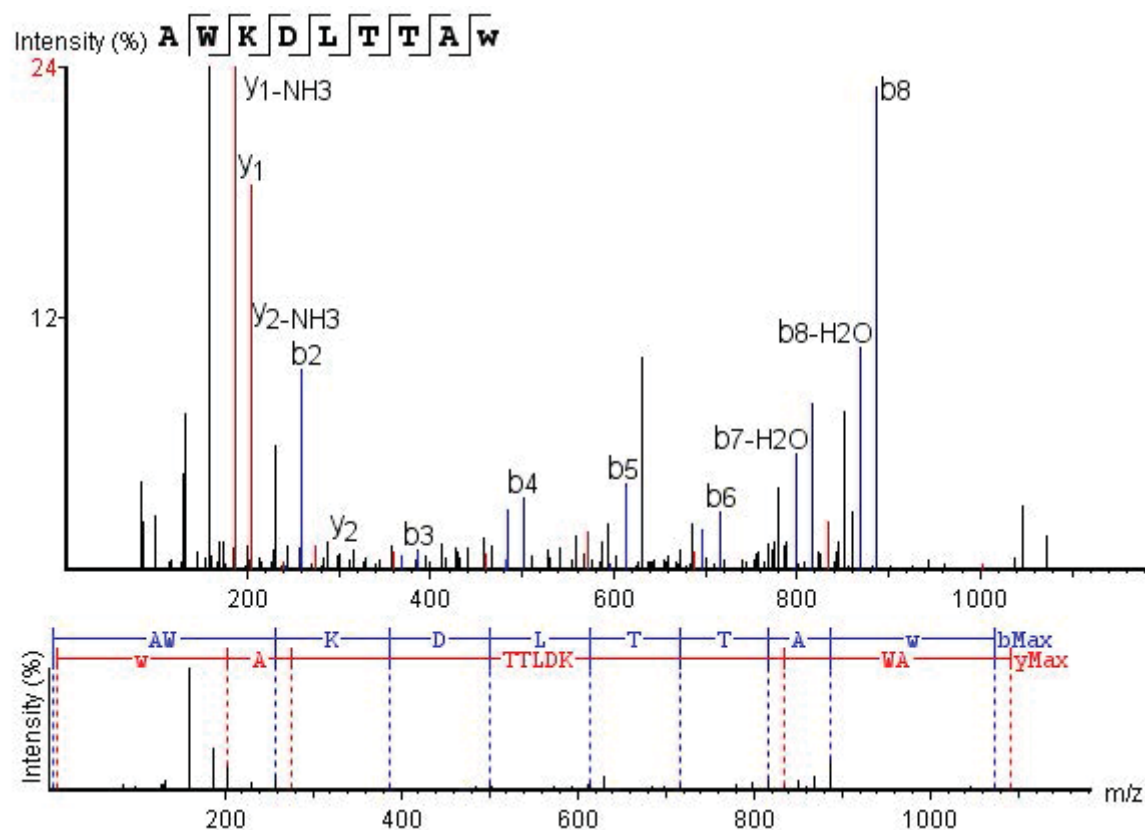
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	130.05	112.04	113.02	65.53	E					9
2	245.08	227.07	228.05	123.04	D	1065.46	1047.46	1048.44	533.23	8
3	374.12	356.11	357.09	187.56	E	950.44	932.43	933.41	475.72	7
4	475.17	457.15	458.14	238.08	T	821.40	803.39	804.37	411.15	6
5	661.25	643.24	644.22	331.12	W	720.35	702.34	703.32	360.67	5
6	817.35	799.34	800.32	409.17	R	534.27	516.26	517.24	267.64	4
7	932.36	914.36	915.35	466.69	D	378.17	360.16	361.14	189.58	3
8	1063.42	1045.40	1046.39	532.21	M	263.14	245.13	246.12	132.10	2
9					I	132.10	114.09	115.07	66.55	1



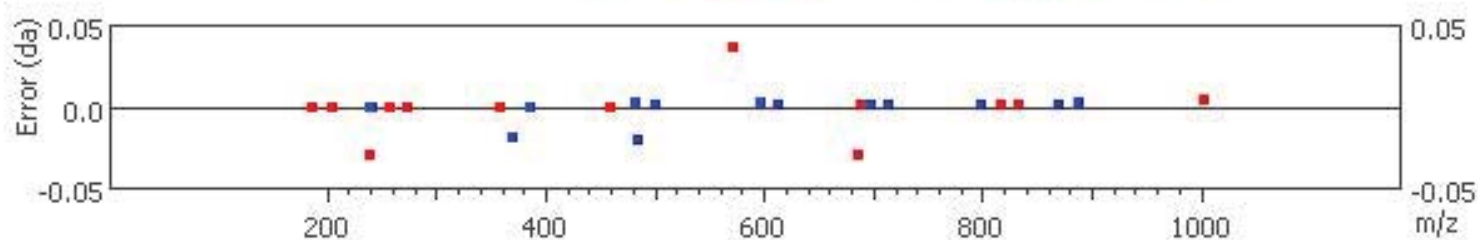


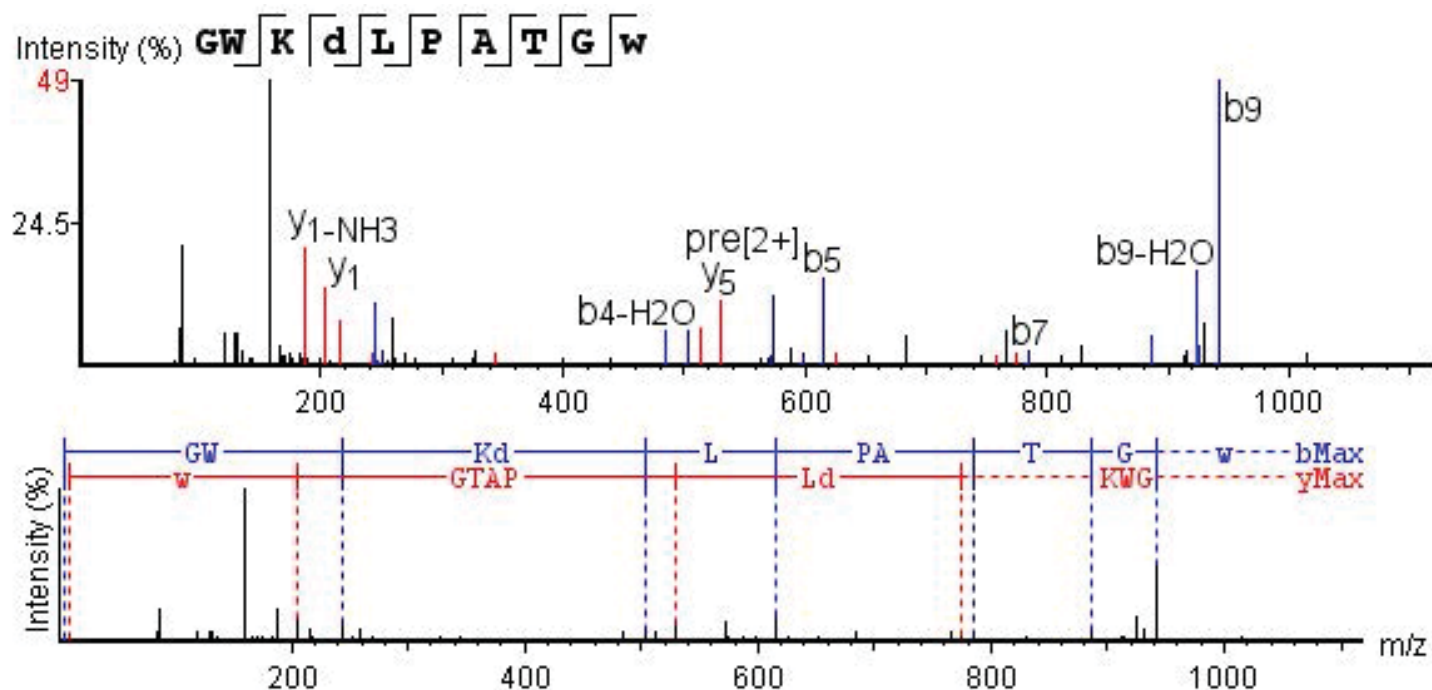
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	72.04	54.03	55.02	36.52	A					11
2	185.13	167.12	168.10	93.06	I	1124.57	1106.56	1107.54	562.78	10
3	299.17	281.16	282.14	150.09	N	1011.48	993.47	994.45	506.24	9
4	386.20	368.19	369.18	193.60	S	897.44	879.43	880.41	449.22	8
5	487.25	469.24	470.22	244.13	T	810.41	792.40	793.38	405.70	7
6	558.29	540.28	541.26	279.64	A	709.36	691.35	692.33	355.18	6
7	673.31	655.31	656.29	337.16	D	638.32	620.31	621.29	319.66	5
8	804.36	786.35	787.33	402.68	M	523.29	505.28	506.27	262.15	4
9	917.44	899.43	900.41	459.22	L	392.25	374.24	375.23	196.63	3
10	1030.52	1012.51	1013.50	515.76	I	279.17	261.16	262.14	140.09	2
11					F	166.09	148.08	149.06	83.54	1



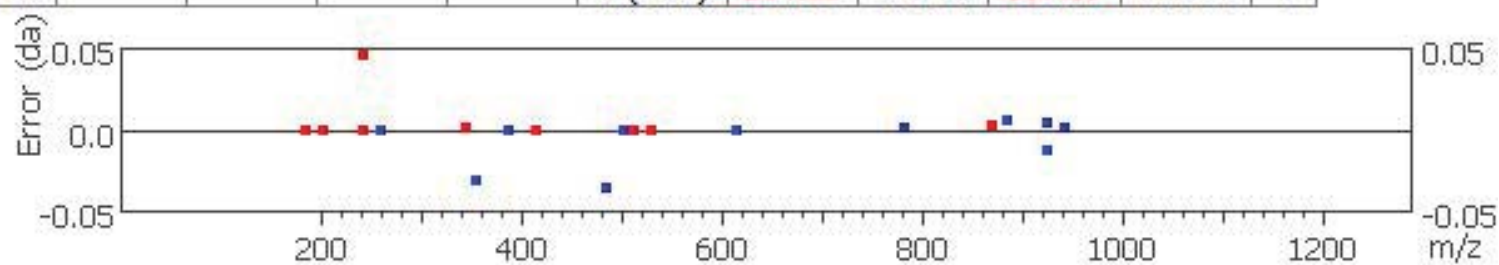


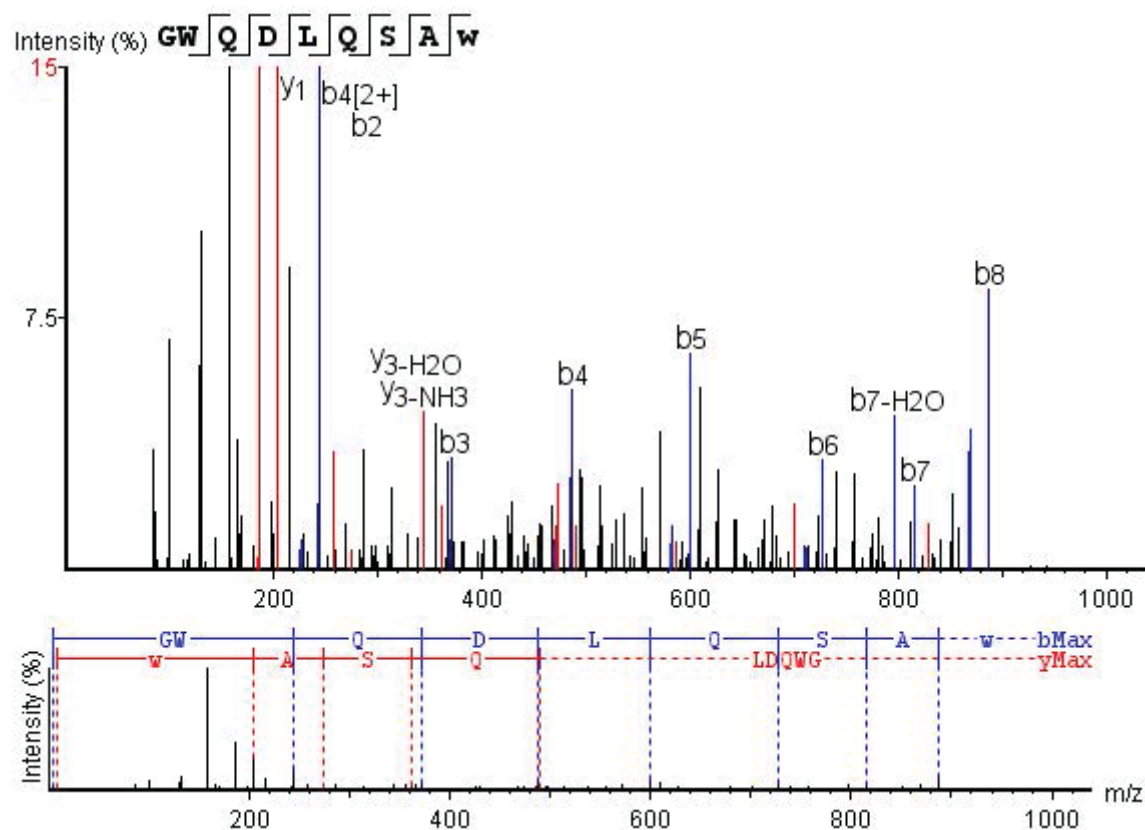
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	72.04	54.03	55.02	36.52	A					9
2	258.12	240.11	241.10	129.56	W	1019.53	1001.52	1002.50	510.27	8
3	386.22	368.21	369.21	193.61	K	833.45	815.44	816.42	417.23	7
4	501.24	483.23	484.24	251.12	D	705.36	687.38	688.33	353.18	6
5	614.33	596.32	597.30	307.67	L	590.33	572.28	573.30	295.66	5
6	715.38	697.36	698.35	358.19	T	477.25	459.24	460.22	239.15	4
7	816.42	798.41	799.40	408.71	T	376.20	358.19	359.17	188.60	3
8	887.46	869.45	870.44	444.23	A	275.15	257.14	258.12	138.08	2
9					W(-.98)	204.11	186.10	187.09	102.56	1



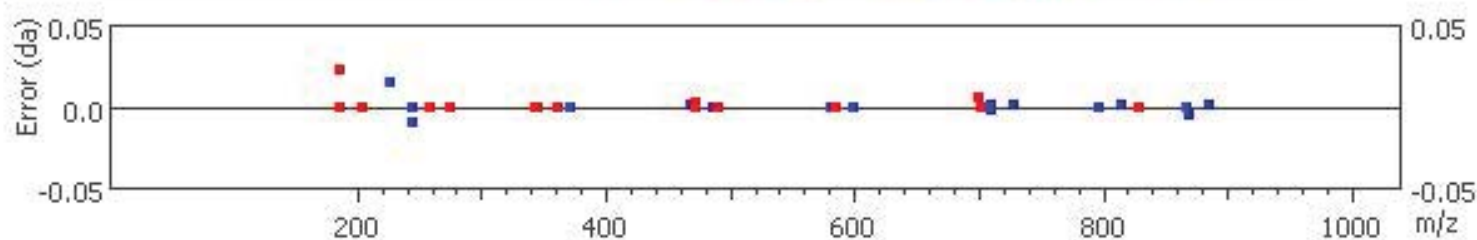


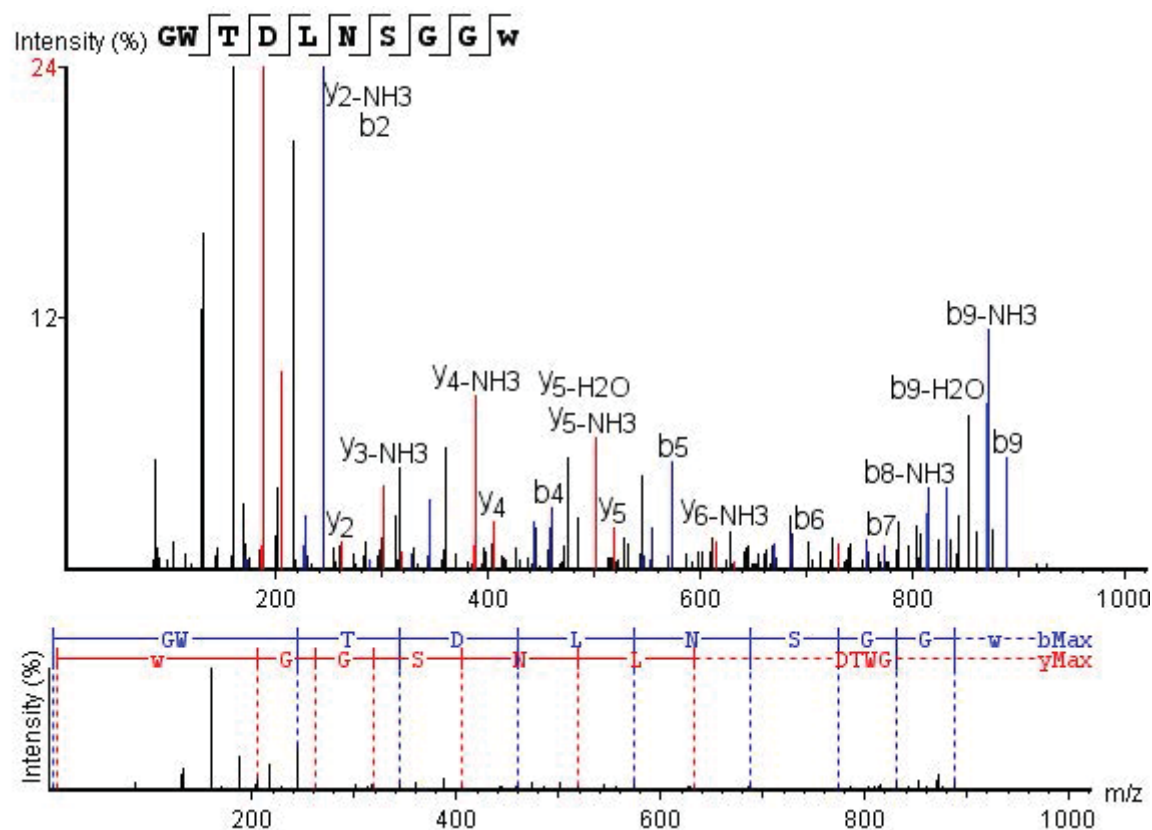
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					10
2	260.10	242.09	243.08	130.55	W(+15....	1088.55	1070.54	1071.53	544.78	9
3	388.20	370.19	371.17	194.60	K	886.48	868.47	869.45	443.74	8
4	503.23	485.25	486.20	252.11	D	758.38	740.37	741.36	379.69	7
5	616.31	598.30	599.28	308.65	L	643.36	625.35	626.33	322.18	6
6	713.36	695.35	696.34	357.21	P	530.27	512.26	513.25	265.64	5
7	784.40	766.39	767.37	392.70	A	433.22	415.21	416.19	217.11	4
8	885.44	867.44	868.42	443.22	T	362.18	344.17	345.15	181.59	3
9	942.47	924.45	925.45	471.73	G	261.13	243.08	244.11	131.07	2
10					W(-.98)	204.11	186.10	187.09	102.56	1



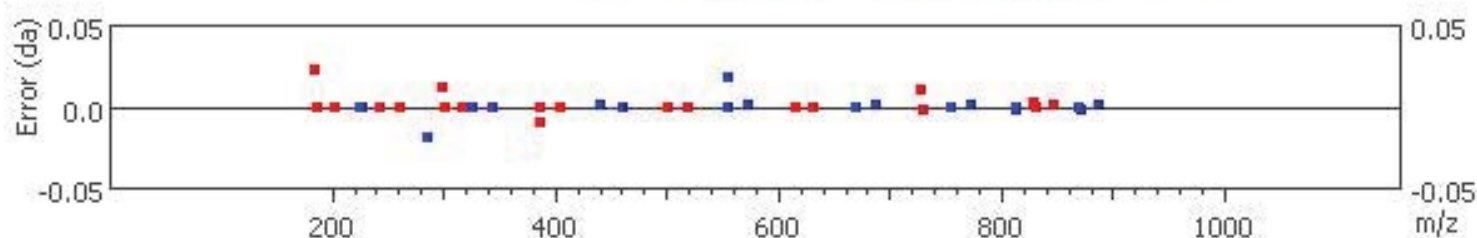


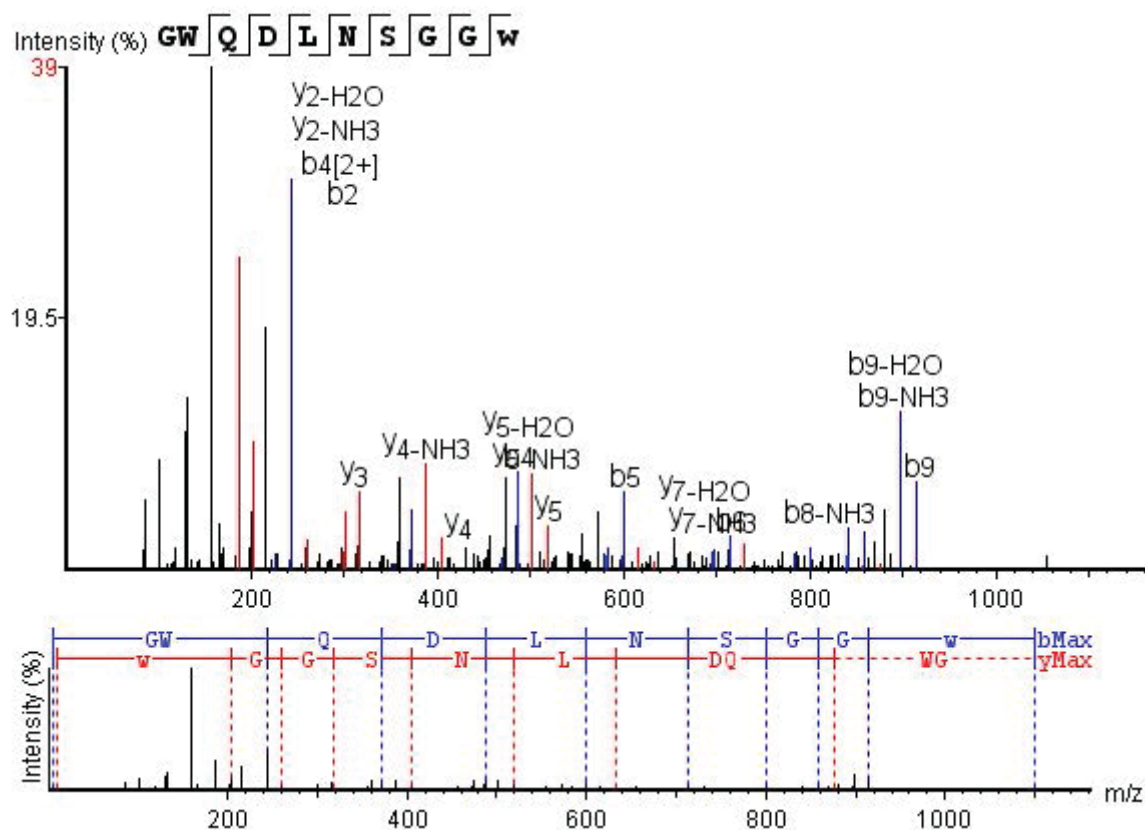
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					9
2	244.11	226.08	227.07	122.55	W	1032.49	1014.48	1015.46	516.74	8
3	372.17	354.16	355.14	186.58	Q	846.41	828.40	829.38	423.71	7
4	487.19	469.18	470.16	244.11	D	718.35	700.33	701.32	359.68	6
5	600.28	582.27	583.25	300.64	L	603.32	585.31	586.30	302.16	5
6	728.33	710.32	711.31	364.67	Q	490.24	472.23	473.21	245.62	4
7	815.37	797.36	798.34	408.18	S	362.18	344.17	345.16	181.59	3
8	886.40	868.39	869.38	443.70	A	275.15	257.14	258.12	138.08	2
9					W(-.98)	204.11	186.08	187.09	102.56	1



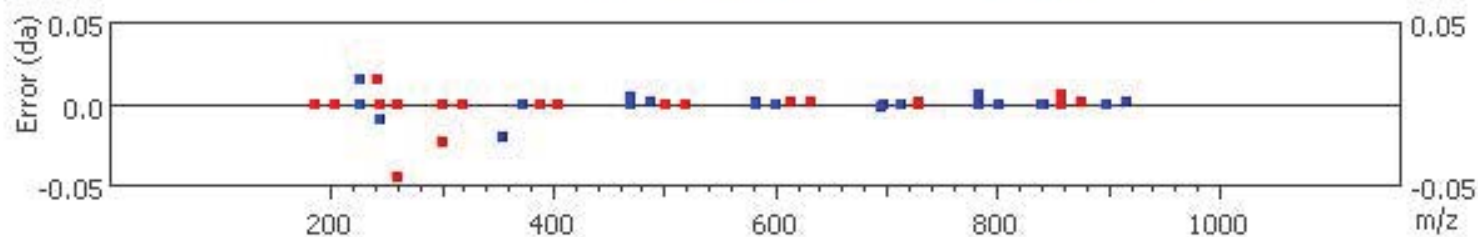


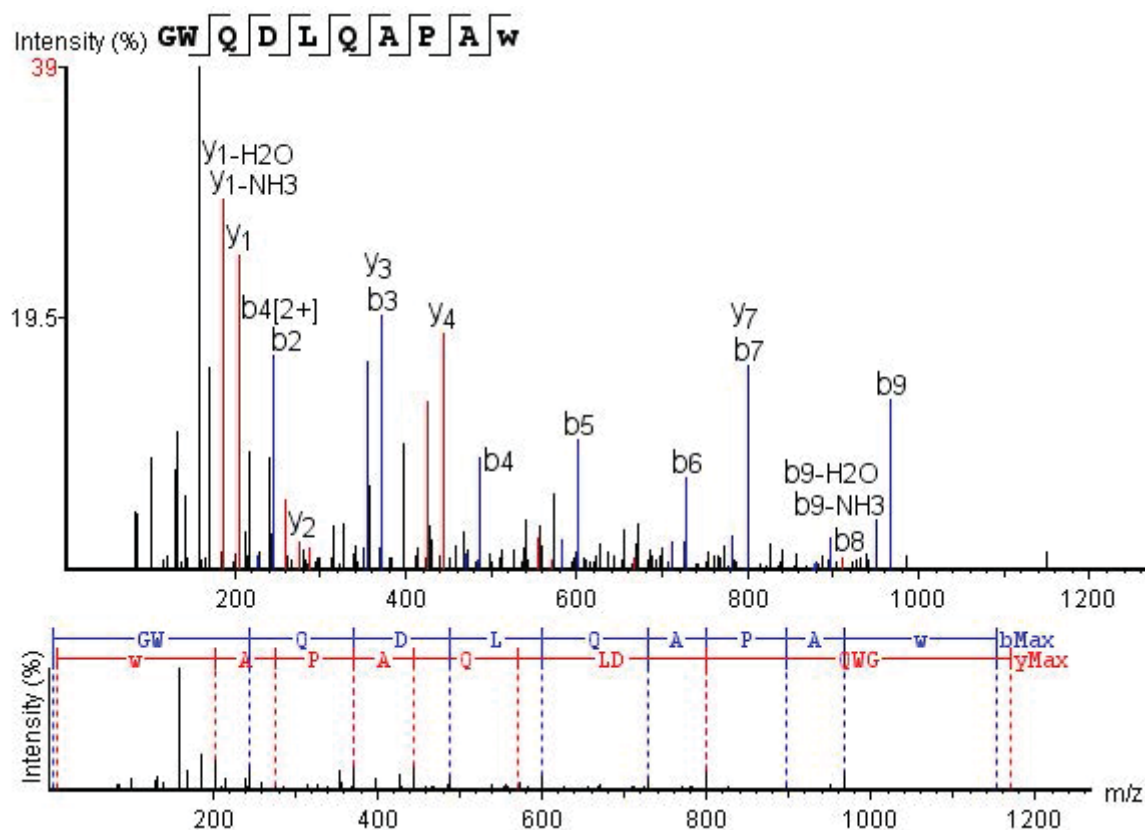
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					10
2	244.11	226.10	227.08	122.55	W	1034.47	1016.46	1017.44	517.73	9
3	345.16	327.15	328.13	173.08	T	848.39	830.38	831.36	424.69	8
4	460.18	442.17	443.16	230.59	D	747.34	729.32	730.32	374.17	7
5	573.27	555.26	556.22	287.15	L	632.31	614.30	615.29	316.66	6
6	687.31	669.30	670.28	344.16	N	519.23	501.22	502.20	260.12	5
7	774.34	756.33	757.32	387.67	S	405.19	387.19	388.16	203.09	4
8	831.36	813.35	814.34	416.18	G	318.16	300.13	301.13	159.58	3
9	888.38	870.37	871.36	444.69	G	261.13	243.12	244.11	131.07	2
10					W(-.98)	204.11	186.08	187.09	102.56	1



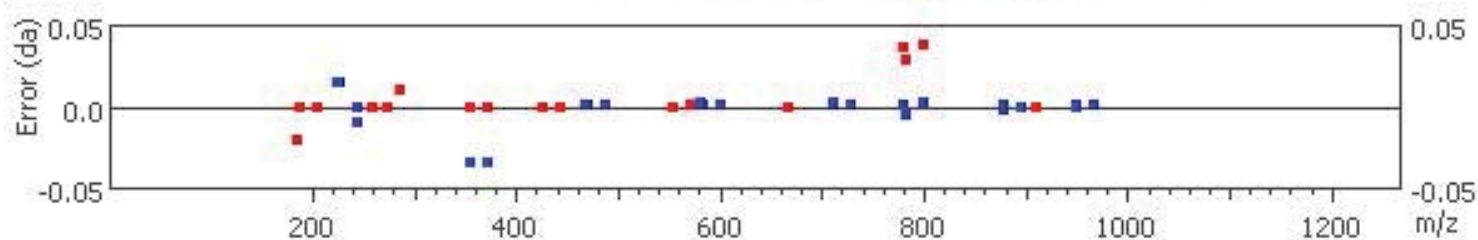


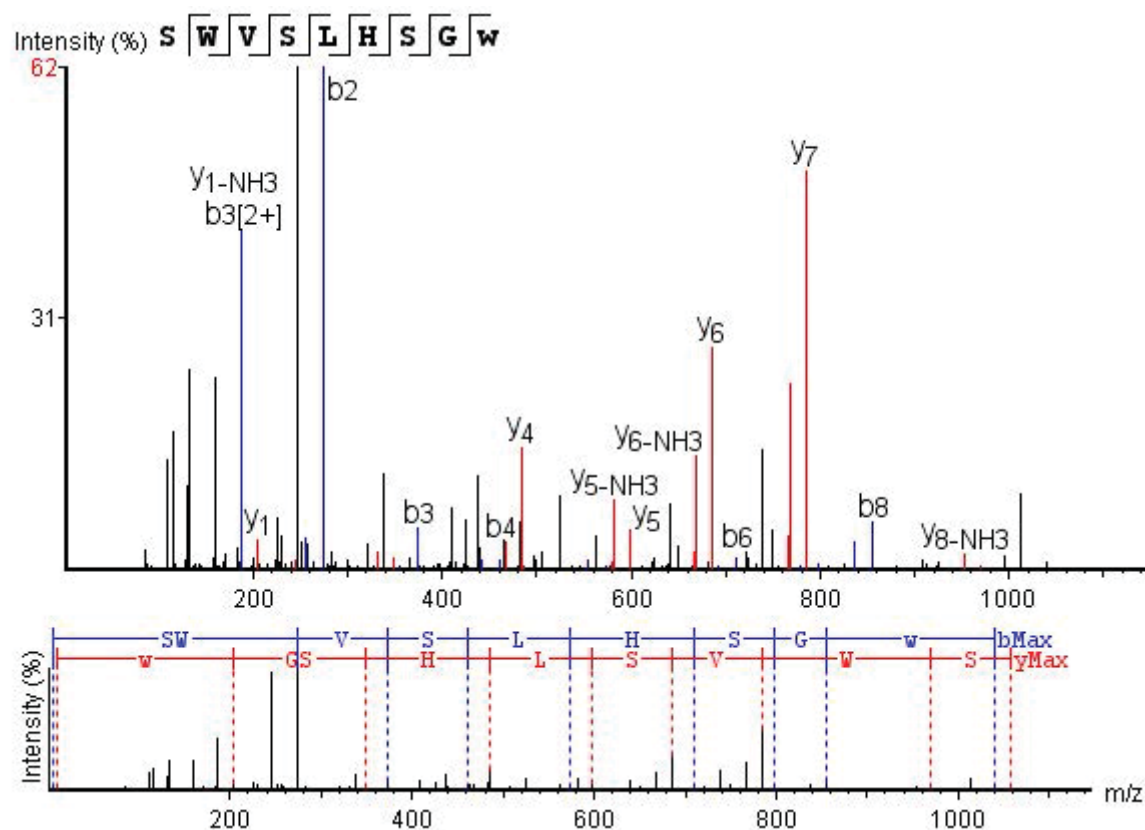
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					10
2	244.11	226.10	227.07	122.55	W	1061.48	1043.47	1044.45	531.24	9
3	372.17	354.16	355.16	186.58	Q	875.40	857.38	858.37	438.20	8
4	487.19	469.18	470.17	244.11	D	747.34	729.33	730.32	374.17	7
5	600.28	582.27	583.25	300.64	L	632.31	614.30	615.29	316.66	6
6	714.32	696.31	697.29	357.66	N	519.23	501.22	502.20	260.16	5
7	801.35	783.34	784.32	401.18	S	405.19	387.18	388.16	203.09	4
8	858.37	840.36	841.35	429.69	G	318.16	300.17	301.13	159.58	3
9	915.39	897.38	898.37	458.20	G	261.13	243.11	244.11	131.07	2
10					W(-.98)	204.11	186.10	187.09	102.56	1



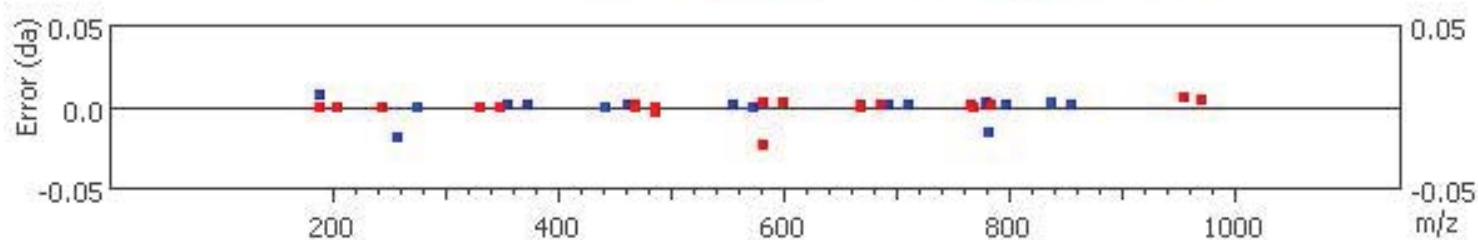


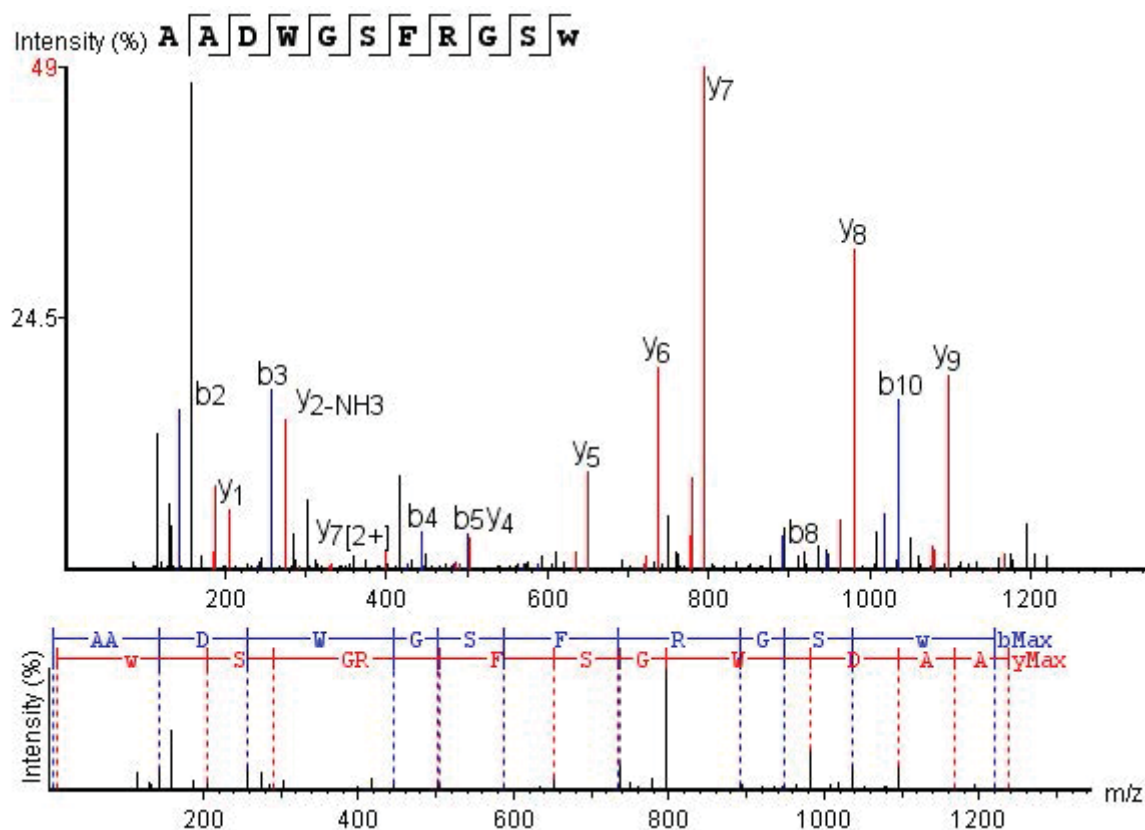
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					10
2	244.11	226.08	227.07	122.55	W	1113.55	1095.54	1096.52	557.27	9
3	372.20	354.16	355.18	186.58	Q	927.47	909.46	910.44	464.23	8
4	487.19	469.18	470.16	244.11	D	799.37	781.36	782.35	400.20	7
5	600.28	582.26	583.25	300.64	L	684.38	666.37	667.36	342.69	6
6	728.33	710.32	711.31	364.67	Q	571.30	553.29	554.27	286.14	5
7	799.37	781.36	782.35	400.19	A	443.24	425.23	426.21	222.12	4
8	896.43	878.41	879.40	448.71	P	372.20	354.19	355.18	186.60	3
9	967.46	949.45	950.44	484.23	A	275.15	257.14	258.12	138.08	2
10					W(-.98)	204.11	186.12	187.09	102.56	1



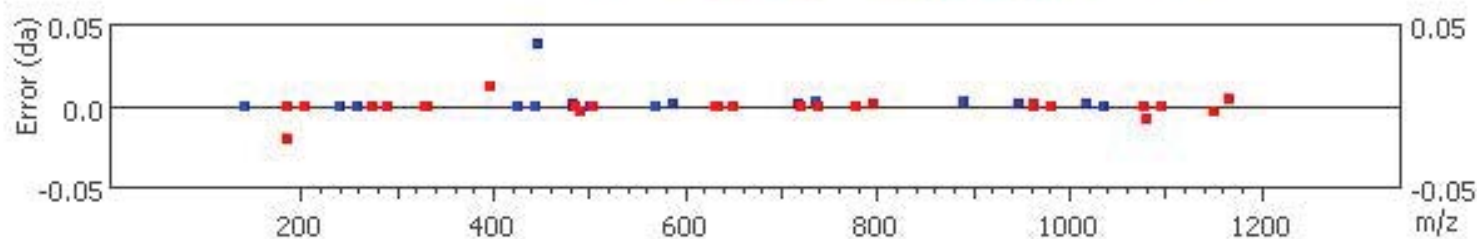


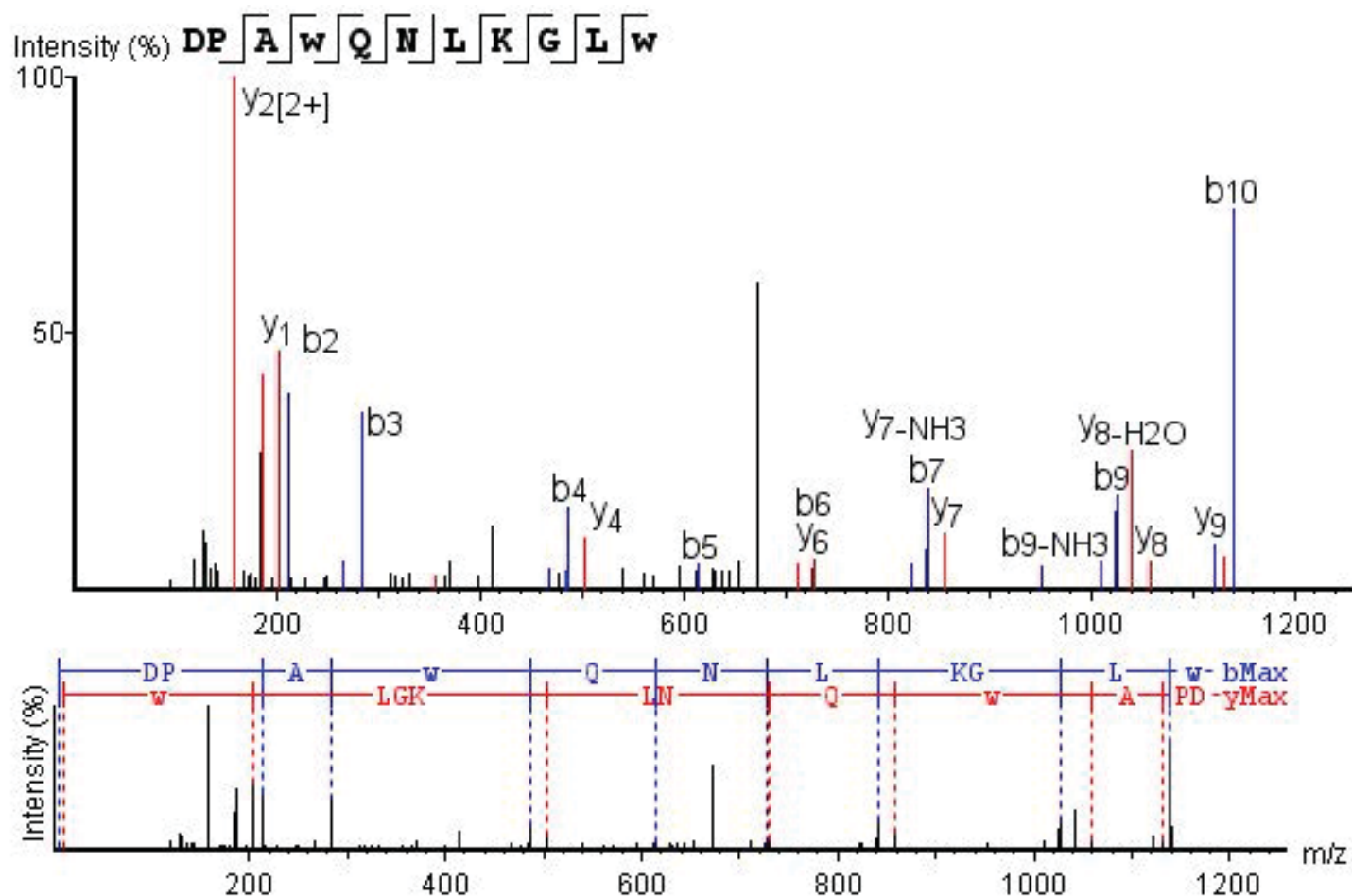
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					9
2	274.12	256.13	257.09	137.56	W	970.48	952.48	953.45	485.75	8
3	373.19	355.18	356.16	187.09	V	784.41	766.40	767.38	392.71	7
4	460.22	442.21	443.19	230.61	S	685.34	667.33	668.31	343.17	6
5	573.30	555.29	556.28	287.15	L	598.31	580.29	581.31	299.65	5
6	710.36	692.35	693.34	355.68	H	485.22	467.21	468.20	243.11	4
7	797.39	779.38	780.38	399.20	S	348.17	330.16	331.14	174.58	3
8	854.41	836.40	837.39	427.71	G	261.13	243.12	244.11	131.07	2
9					W(-.98)	204.11	186.10	187.09	102.56	1



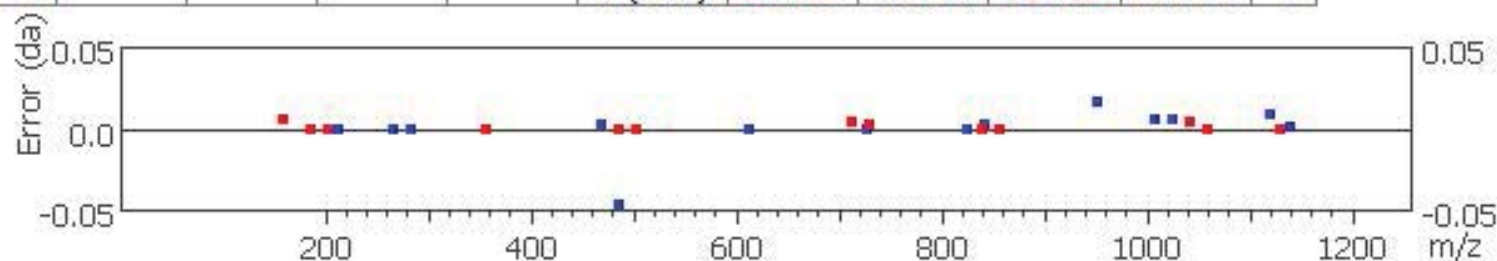


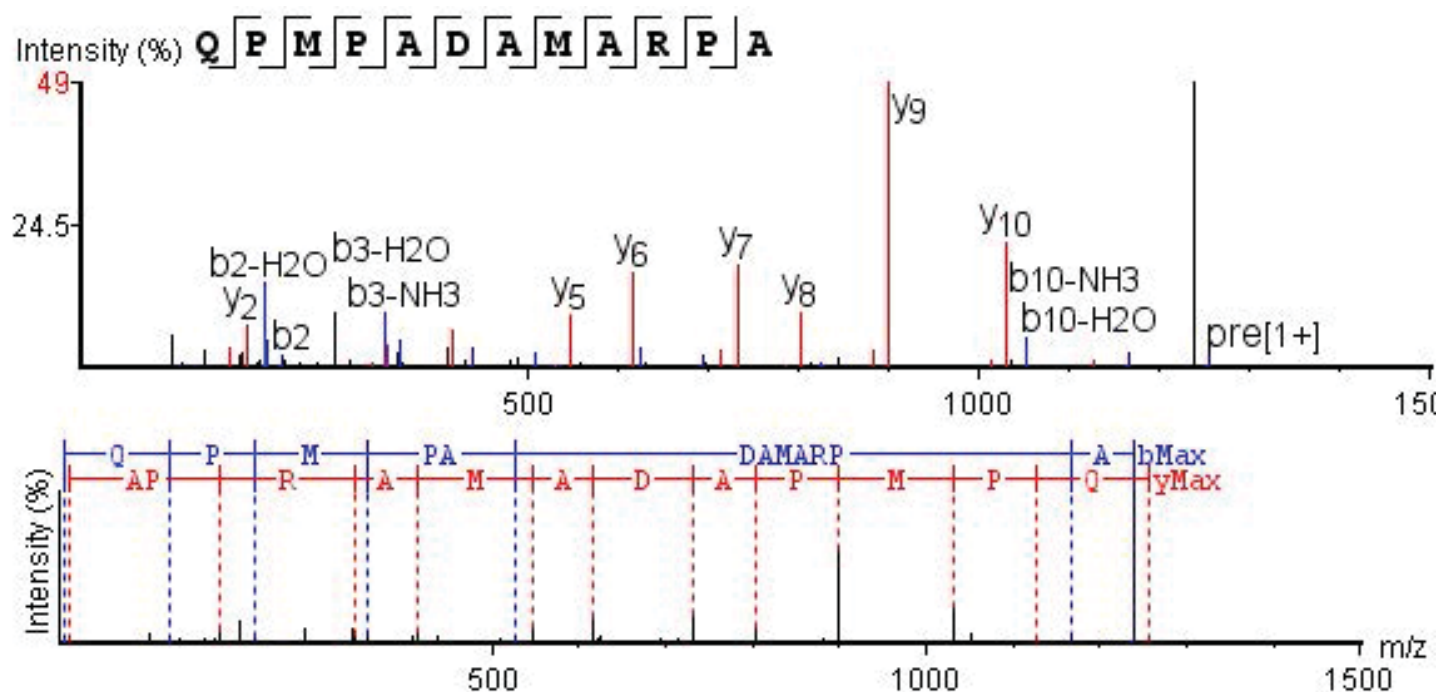
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					11
2	143.08	125.07	126.06	72.04	A	1167.53	1149.52	1150.51	584.27	10
3	258.11	240.10	241.08	129.55	D	1096.49	1078.48	1079.48	548.75	9
4	444.19	426.18	427.16	222.59	W	981.47	963.46	964.44	491.24	8
5	501.21	483.20	484.18	251.10	G	795.39	777.38	778.36	398.18	7
6	588.24	570.23	571.21	294.62	S	738.37	720.36	721.34	369.68	6
7	735.31	717.30	718.28	368.16	F	651.33	633.33	634.31	326.17	5
8	891.41	873.40	874.38	446.17	R	504.27	486.26	487.24	252.63	4
9	948.43	930.42	931.41	474.72	G	348.17	330.16	331.14	174.58	3
10	1035.46	1017.45	1018.44	518.23	S	291.14	273.13	274.12	146.07	2
11					W(-.98)	204.11	186.12	187.09	102.56	1



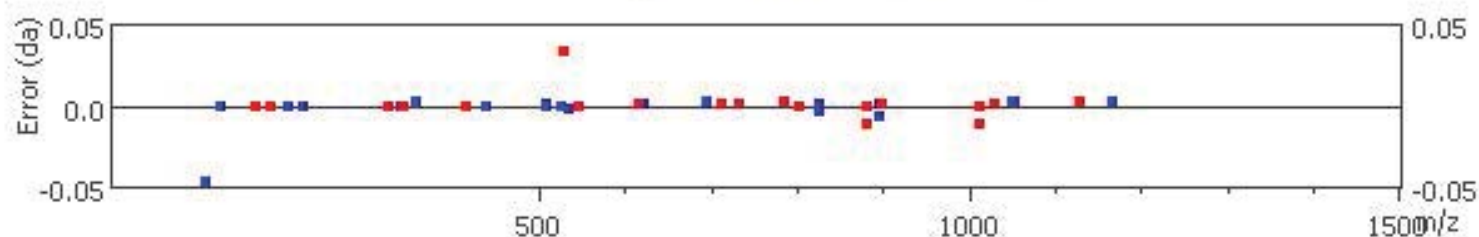


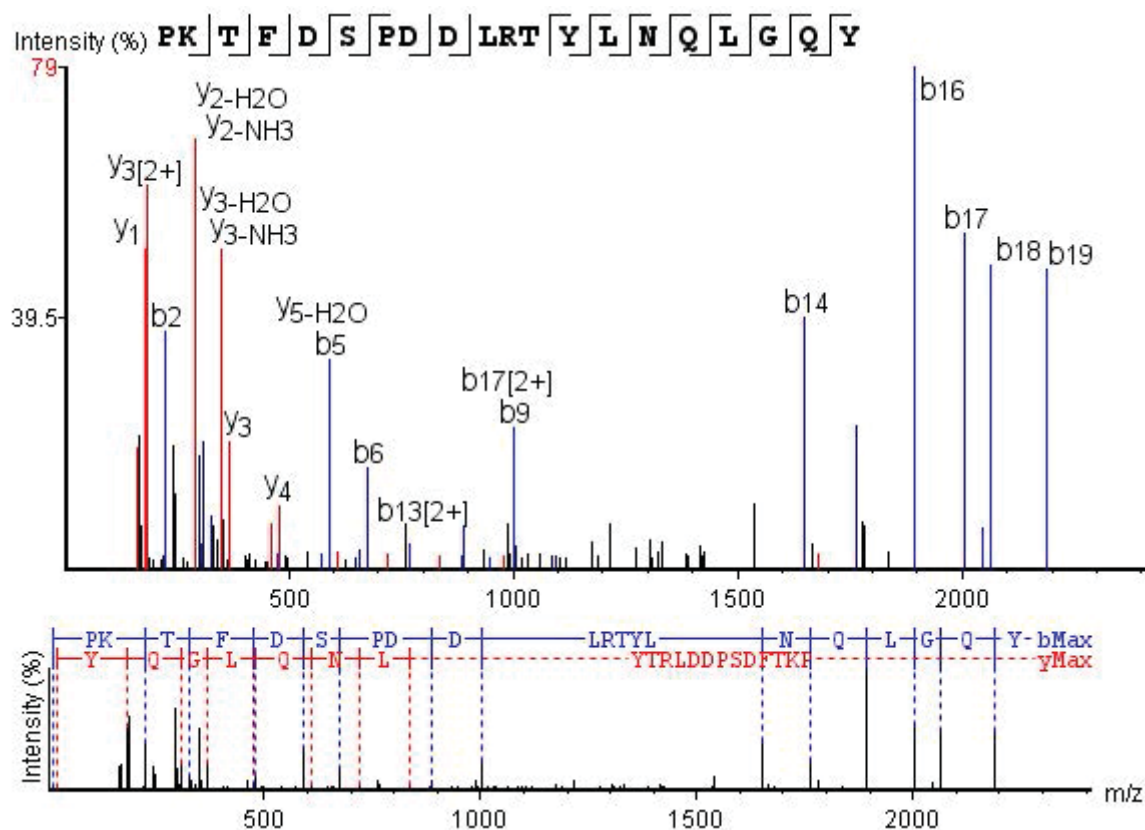
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	116.03	98.02	99.01	58.52	D					11
2	213.09	195.08	196.06	107.04	P	1227.66	1209.65	1210.64	614.33	10
3	284.12	266.11	267.10	142.56	A	1130.61	1112.60	1113.58	565.81	9
4	486.20	468.18	469.17	243.60	W(+15....	1059.57	1041.56	1042.55	530.29	8
5	614.26	596.25	597.23	307.63	Q	857.50	839.49	840.47	429.25	7
6	728.30	710.29	711.27	364.65	N	729.44	711.43	712.41	365.22	6
7	841.38	823.37	824.36	421.19	L	615.40	597.39	598.37	308.20	5
8	969.48	951.47	952.43	485.29	K	502.31	484.30	485.29	251.66	4
9	1026.49	1008.49	1009.47	513.75	G	374.22	356.21	357.19	187.61	3
10	1139.58	1121.57	1122.56	570.29	L	317.20	299.19	300.17	159.09	2
11					W(-.98)	204.11	186.10	187.09	102.56	1



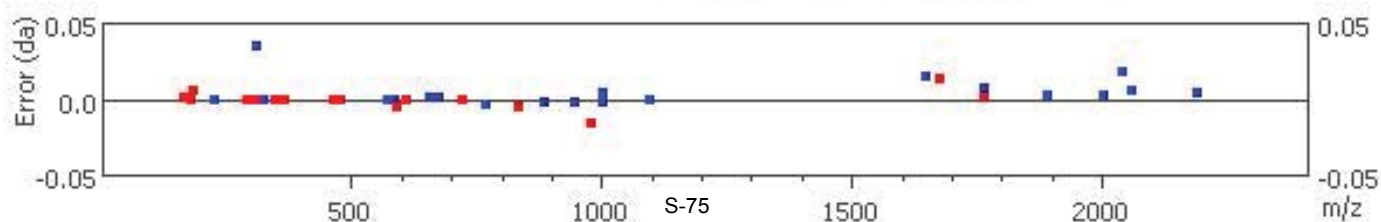


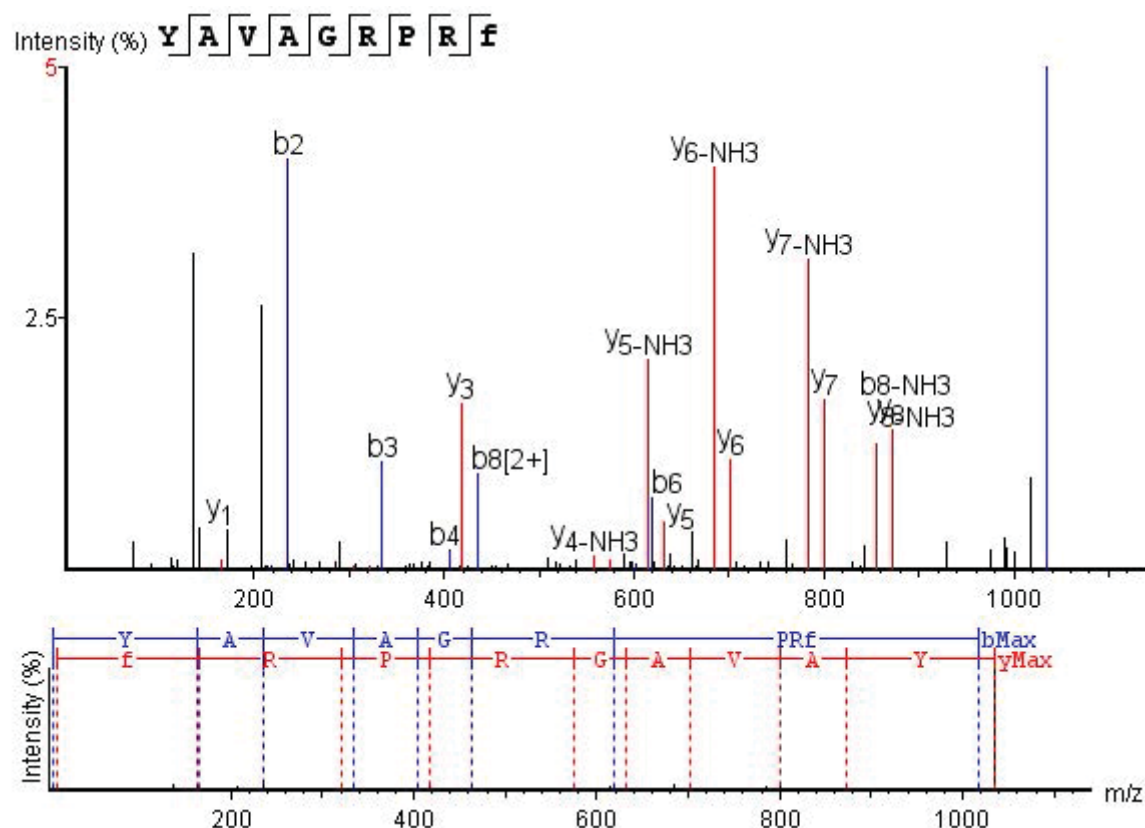
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	129.07	111.06	112.09	65.03	Q					12
2	226.12	208.11	209.09	113.56	P	1127.53	1109.52	1110.51	564.27	11
3	357.16	339.15	340.13	179.08	M	1030.48	1012.47	1013.47	515.74	10
4	454.21	436.20	437.18	227.61	P	899.44	881.43	882.42	450.22	9
5	525.25	507.24	508.22	263.12	A	802.39	784.37	785.36	401.69	8
6	640.28	622.26	623.25	320.64	D	731.35	713.34	714.32	366.18	7
7	711.31	693.30	694.28	356.16	A	616.32	598.31	599.30	308.66	6
8	842.35	824.34	825.33	421.68	M	545.28	527.28	528.22	273.14	5
9	913.39	895.38	896.37	457.20	A	414.24	396.24	397.22	207.62	4
10	1069.49	1051.48	1052.46	535.25	R	343.21	325.20	326.18	172.10	3
11	1166.54	1148.53	1149.52	583.77	P	187.11	169.10	170.08	94.05	2
12					A	90.05	72.04	73.03	45.53	1



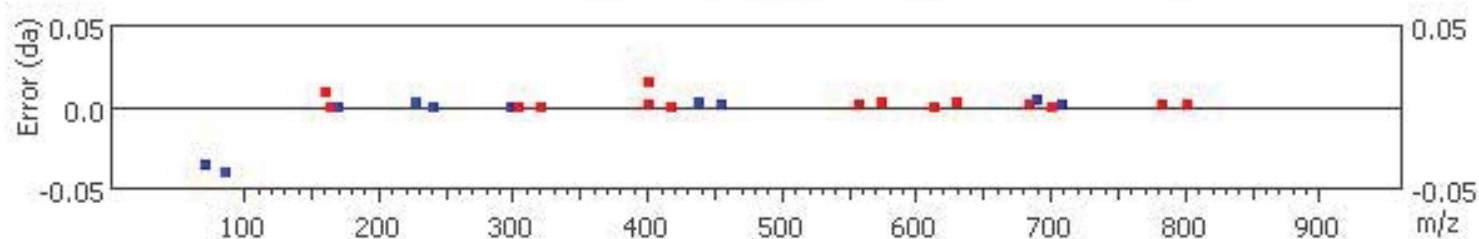


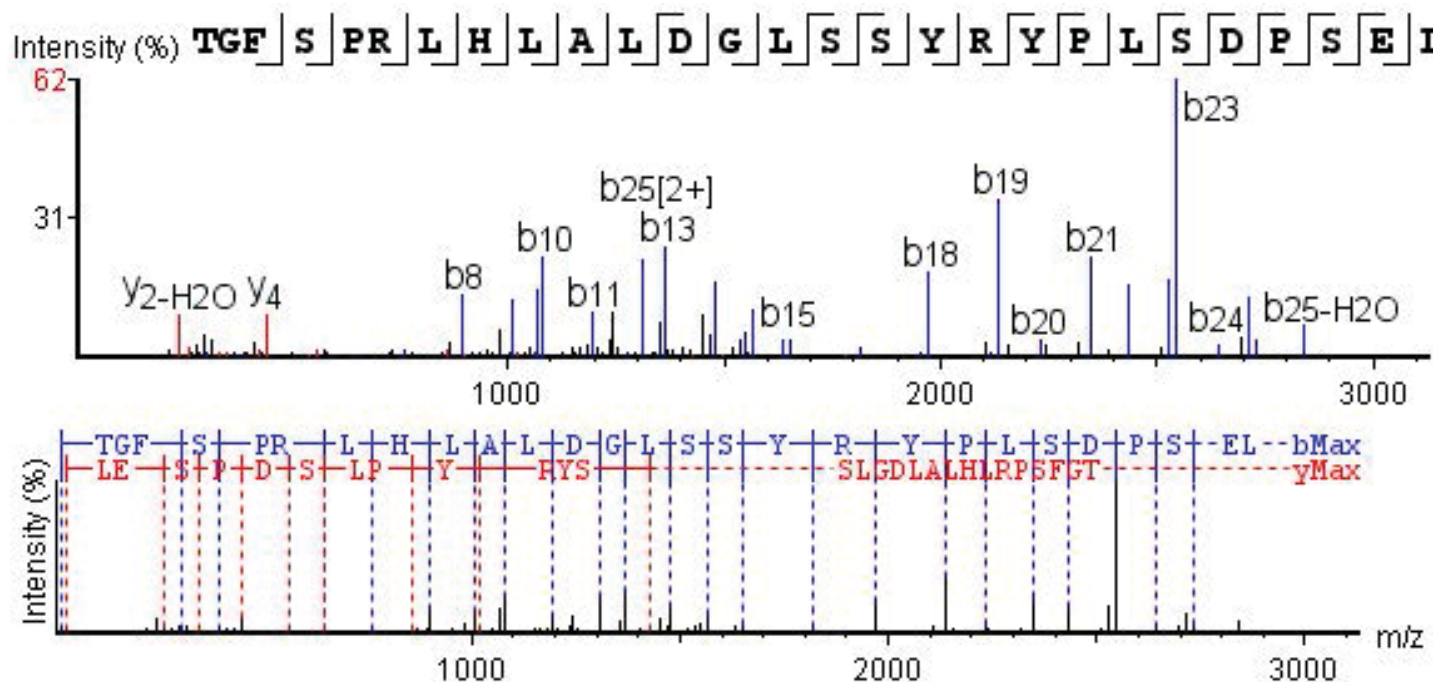
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	98.06	80.05	81.03	49.53	P					20
2	226.15	208.14	209.13	113.58	K	2274.10	2256.09	2257.08	1137.55	19
3	327.20	309.19	310.14	164.10	T	2146.01	2128.00	2128.98	1073.50	18
4	474.27	456.26	457.24	237.64	F	2044.96	2026.95	2027.93	1022.98	17
5	589.30	571.29	572.27	295.15	D	1897.89	1879.88	1880.87	949.45	16
6	676.33	658.32	659.30	338.67	S	1782.87	1764.85	1765.84	891.93	15
7	773.38	755.37	756.36	387.19	P	1695.83	1677.82	1678.79	848.42	14
8	888.41	870.40	871.38	444.71	D	1598.78	1580.77	1581.75	799.89	13
9	1003.43	985.43	986.41	502.22	D	1483.75	1465.74	1466.73	742.38	12
10	1116.52	1098.51	1099.49	558.76	L	1368.73	1350.72	1351.70	684.86	11
11	1272.62	1254.61	1255.60	636.81	R	1255.64	1237.63	1238.62	628.32	10
12	1373.67	1355.66	1356.64	687.34	T	1099.54	1081.53	1082.51	550.27	9
13	1536.73	1518.72	1519.71	768.87	Y	998.49	980.50	981.47	499.75	8
14	1649.80	1631.81	1632.79	825.41	L	835.44	817.42	818.40	418.22	7
15	1763.85	1745.85	1746.83	882.43	N	722.35	704.34	705.32	361.67	6
16	1891.92	1873.91	1874.89	946.46	Q	608.30	590.30	591.28	304.65	5
17	2005.00	1986.99	1987.98	1003.00	L	480.24	462.23	463.22	240.62	4
18	2062.02	2043.99	2045.00	1031.51	G	367.16	349.15	350.13	184.07	3
19	2190.08	2172.07	2173.06	1095.54	Q	310.14	292.13	293.11	155.57	2
20					Y	182.08	164.07	165.05	91.54	1



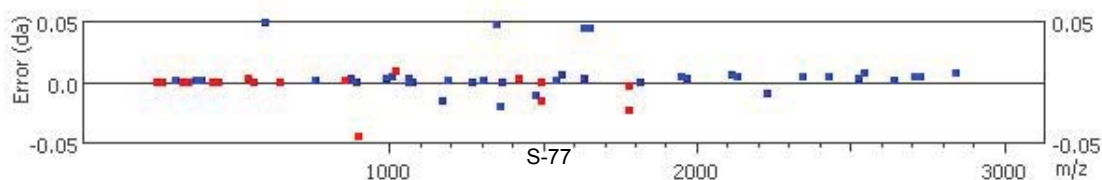


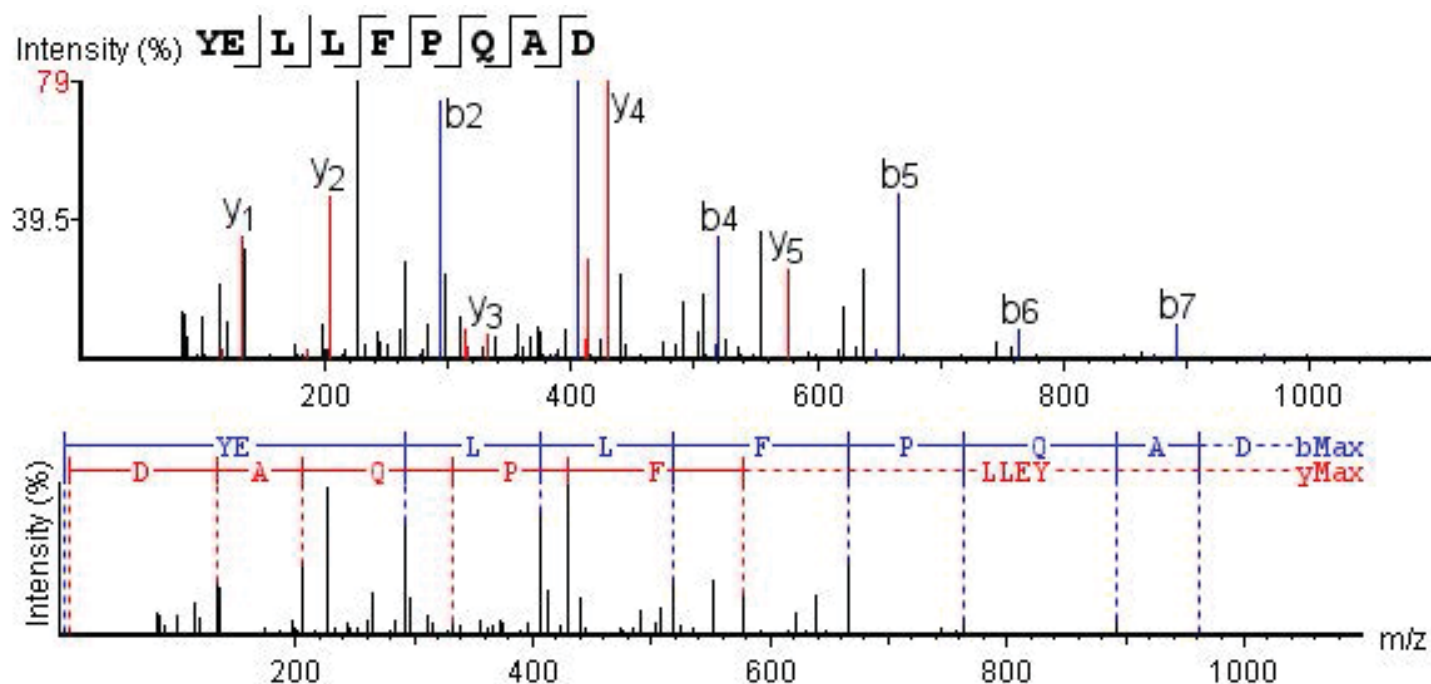
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.08	54.03	55.02	36.52	A					8
2	171.11	153.10	154.09	86.10	V	801.48	783.47	784.46	401.23	7
3	242.15	224.14	225.12	121.58	A	702.41	684.41	685.39	351.71	6
4	299.17	281.16	282.14	150.09	G	631.38	613.37	614.35	316.19	5
5	455.27	437.26	438.24	228.13	R	574.35	556.35	557.33	287.68	4
6	552.33	534.32	535.30	276.66	P	418.26	400.25	401.23	209.63	3
7	708.42	690.42	691.40	354.71	R	321.20	303.19	304.18	161.09	2
8					F(-.98)	165.10	147.09	148.08	83.05	1



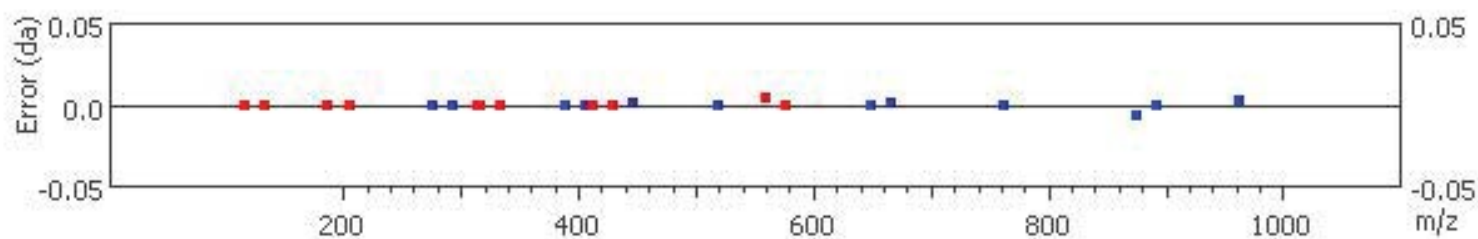


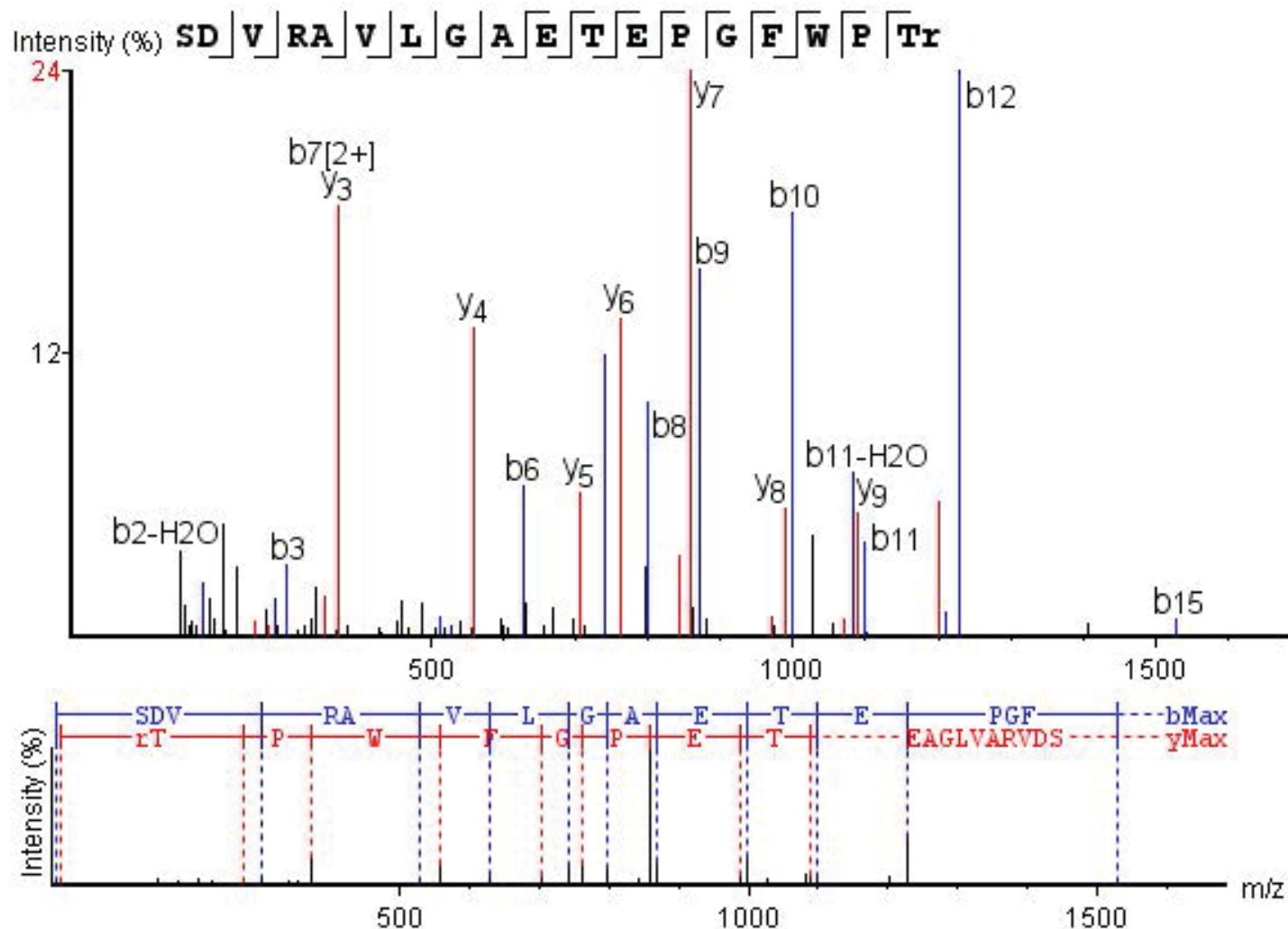
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.04	85.03	51.53	T					27
2	159.08	141.07	142.05	80.04	G	2890.47	2872.46	2873.45	1445.74	26
3	306.14	288.13	289.12	153.57	F	2833.45	2815.44	2816.42	1417.23	25
4	393.18	375.17	376.15	197.09	S	2686.38	2668.37	2669.36	1343.69	24
5	490.23	472.22	473.20	245.62	P	2599.35	2581.34	2582.32	1300.18	23
6	646.33	628.32	629.30	323.67	R	2502.30	2484.29	2485.27	1251.65	22
7	759.41	741.40	742.39	380.21	L	2346.20	2328.19	2329.17	1173.60	21
8	896.48	878.46	879.45	448.74	H	2233.11	2215.10	2216.09	1117.06	20
9	1009.55	991.54	992.53	505.28	L	2096.05	2078.04	2079.03	1048.53	19
10	1080.60	1062.58	1063.57	540.80	A	1982.97	1964.96	1965.94	991.99	18
11	1193.68	1175.67	1176.67	597.29	L	1911.93	1893.92	1894.91	956.47	17
12	1308.70	1290.70	1291.68	654.85	D	1798.85	1780.84	1781.85	899.97	16
13	1365.75	1347.72	1348.65	683.36	G	1683.82	1665.81	1666.80	842.41	15
14	1478.82	1460.80	1461.78	739.91	L	1626.80	1608.79	1609.77	813.90	14
15	1565.84	1547.83	1548.82	783.42	S	1513.72	1495.71	1496.71	757.36	13
16	1652.83	1634.86	1635.80	826.94	S	1426.68	1408.67	1409.66	713.84	12
17	1815.94	1797.93	1798.91	908.47	Y	1339.65	1321.64	1322.63	670.33	11
18	1972.04	1954.02	1955.01	986.52	R	1176.59	1158.58	1159.56	588.79	10
19	2135.10	2117.09	2118.08	1068.05	Y	1020.48	1002.48	1003.46	510.74	9
20	2232.17	2214.15	2215.13	1116.58	P	857.42	839.41	840.40	429.21	8
21	2345.24	2327.23	2328.21	1173.12	L	760.37	742.36	743.35	380.69	7
22	2432.27	2414.26	2415.25	1216.64	S	647.29	629.28	630.26	324.14	6
23	2547.29	2529.29	2530.27	1274.15	D	560.25	542.24	543.23	280.63	5
24	2644.35	2626.34	2627.33	1322.68	P	445.23	427.22	428.20	223.11	4
25	2731.38	2713.37	2714.36	1366.19	S	348.17	330.16	331.15	174.59	3
26	2860.43	2842.41	2843.40	1430.71	E	261.14	243.13	244.12	131.07	2
27					L	132.10	114.09	115.07	66.55	1



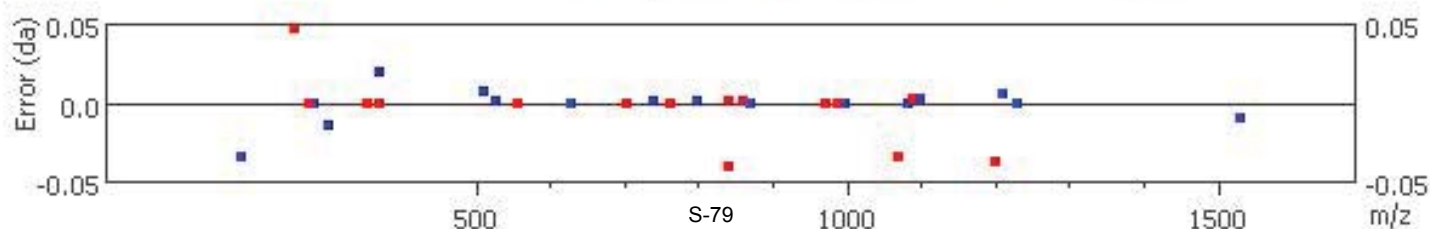


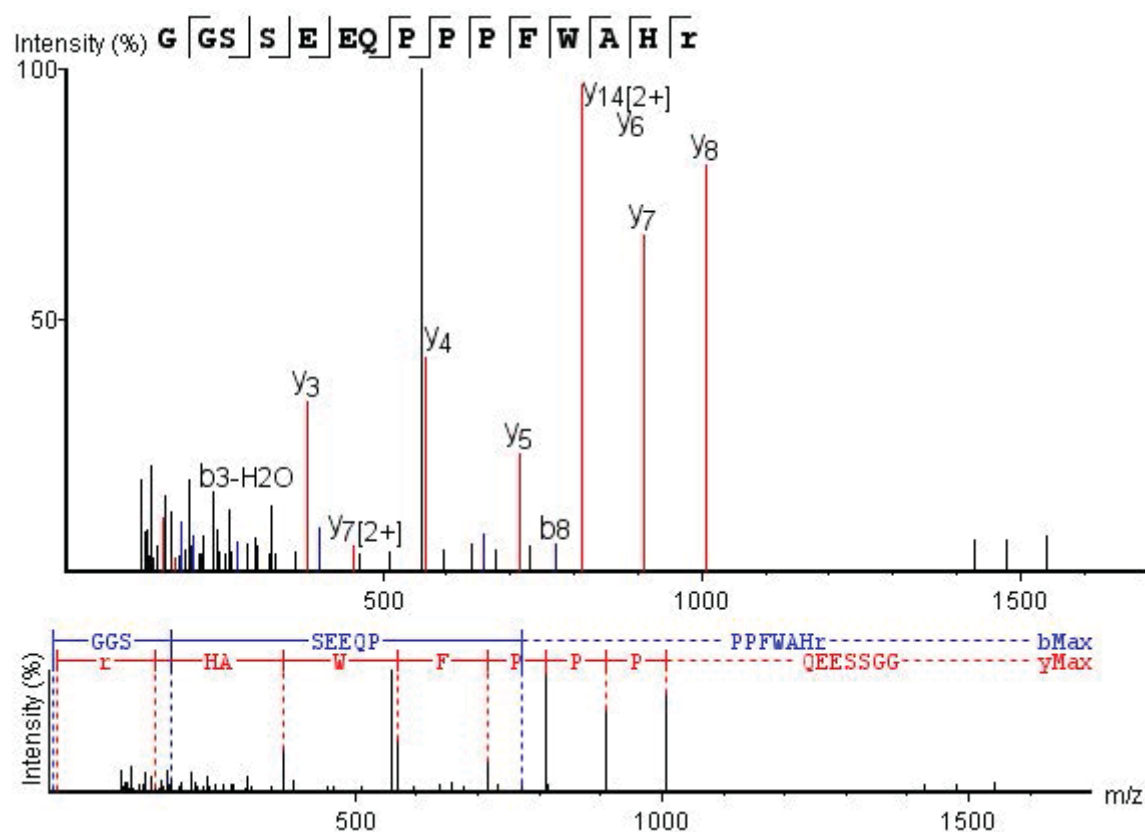
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	164.07	146.06	147.04	82.54	Y					9
2	293.11	275.10	276.09	147.06	E	932.47	914.46	915.45	466.74	8
3	406.20	388.19	389.17	203.60	L	803.43	785.42	786.40	402.21	7
4	519.28	501.27	502.25	260.14	L	690.35	672.34	673.32	345.67	6
5	666.35	648.34	649.32	333.68	F	577.26	559.25	560.23	289.13	5
6	763.40	745.39	746.38	382.20	P	430.19	412.18	413.17	215.60	4
7	891.46	873.45	874.44	446.23	Q	333.14	315.13	316.11	167.07	3
8	962.50	944.49	945.47	481.75	A	205.08	187.07	188.05	103.04	2
9					D	134.04	116.03	117.02	67.52	1



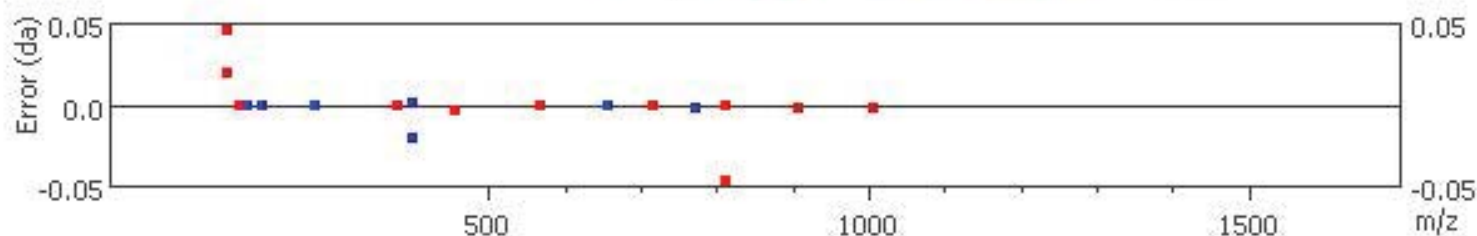


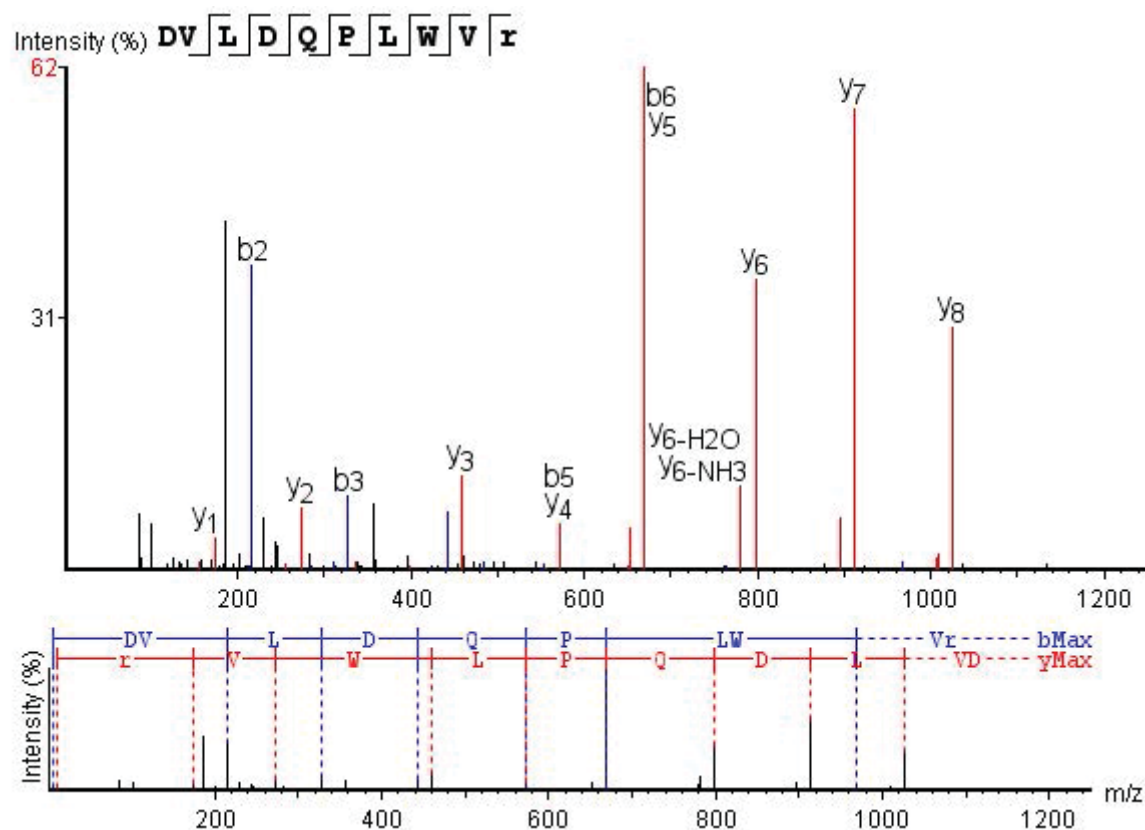
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					19
2	203.07	185.09	186.04	102.03	D	2000.03	1982.02	1983.01	1000.52	18
3	302.15	284.12	285.11	151.57	V	1885.01	1867.00	1867.98	943.00	17
4	458.24	440.23	441.21	229.62	R	1785.94	1767.93	1768.91	893.47	16
5	529.27	511.26	512.24	265.14	A	1629.84	1611.83	1612.81	815.42	15
6	628.34	610.33	611.31	314.67	V	1558.80	1540.79	1541.77	779.90	14
7	741.42	723.42	724.40	371.19	L	1459.73	1441.72	1442.71	730.37	13
8	798.45	780.44	781.42	399.72	G	1346.65	1328.64	1329.62	673.82	12
9	869.48	851.47	852.46	435.24	A	1289.63	1271.62	1272.60	645.31	11
10	998.53	980.52	981.50	499.76	E	1218.59	1200.62	1201.56	609.80	10
11	1099.57	1081.56	1082.55	550.29	T	1089.54	1071.57	1072.52	545.27	9
12	1228.62	1210.60	1211.59	614.81	E	988.50	970.49	971.47	494.75	8
13	1325.67	1307.66	1308.64	663.34	P	859.46	841.49	842.43	430.23	7
14	1382.69	1364.68	1365.66	691.85	G	762.40	744.39	745.38	381.70	6
15	1529.77	1511.75	1512.73	765.38	F	705.38	687.37	688.36	353.19	5
16	1715.84	1697.83	1698.81	858.42	W	558.31	540.30	541.29	279.66	4
17	1812.89	1794.88	1795.86	906.95	P	372.23	354.22	355.21	186.62	3
18	1913.94	1895.93	1896.91	957.47	T	275.18	257.17	258.11	138.09	2
19					R(-.98)	174.13	156.12	157.11	87.57	1



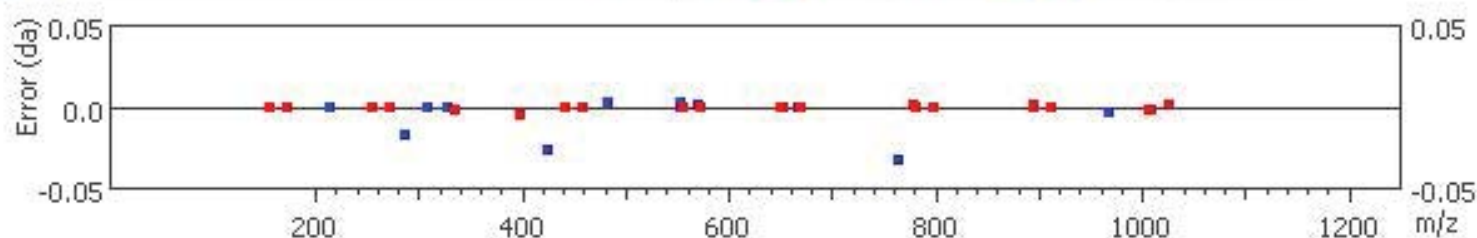


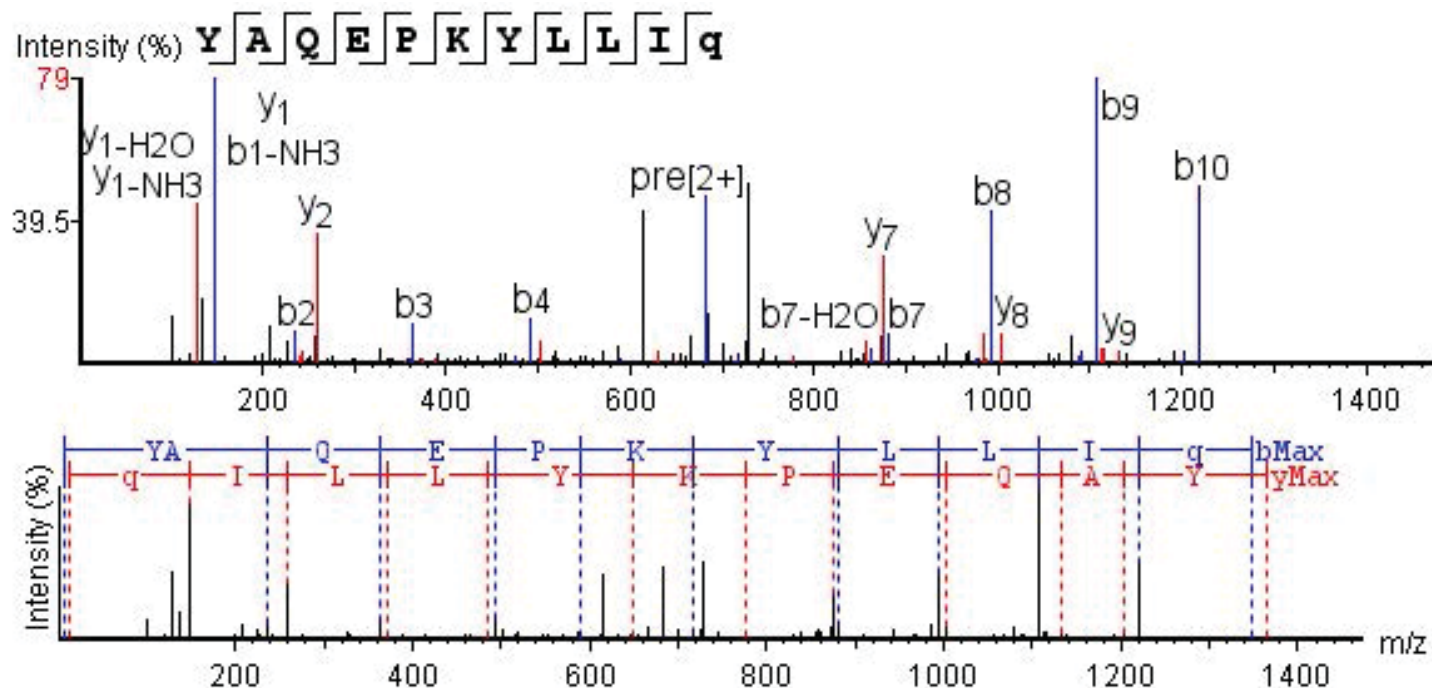
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					15
2	115.05	97.04	98.02	58.03	G	1623.77	1605.76	1606.74	812.43	14
3	202.08	184.07	185.06	101.54	S	1566.74	1548.73	1549.72	783.87	13
4	289.11	271.10	272.09	145.06	S	1479.71	1461.70	1462.69	740.36	12
5	418.16	400.14	401.15	209.58	E	1392.68	1374.67	1375.65	696.84	11
6	547.20	529.19	530.17	274.10	E	1263.64	1245.63	1246.61	632.32	10
7	675.26	657.25	658.23	338.13	Q	1134.60	1116.58	1117.57	567.80	9
8	772.31	754.30	755.28	386.66	P	1006.54	988.53	989.51	503.77	8
9	869.36	851.35	852.34	435.18	P	909.49	891.47	892.46	455.25	7
10	966.42	948.41	949.39	483.71	P	812.43	794.42	795.40	406.72	6
11	1113.49	1095.47	1096.46	557.24	F	715.38	697.37	698.35	358.19	5
12	1299.56	1281.55	1282.54	650.28	W	568.31	550.30	551.28	284.66	4
13	1370.60	1352.59	1353.57	685.80	A	382.23	364.22	365.20	191.62	3
14	1507.66	1489.65	1490.63	754.33	H	311.19	293.18	294.17	156.08	2
15					R(-.98)	174.13	156.08	157.06	87.57	1



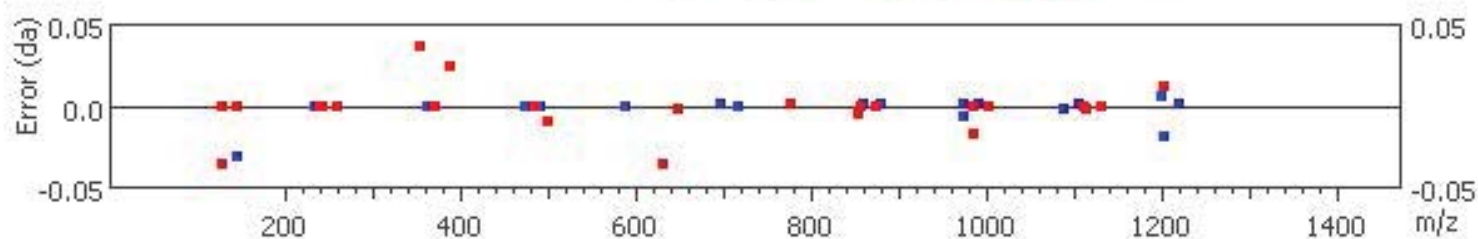


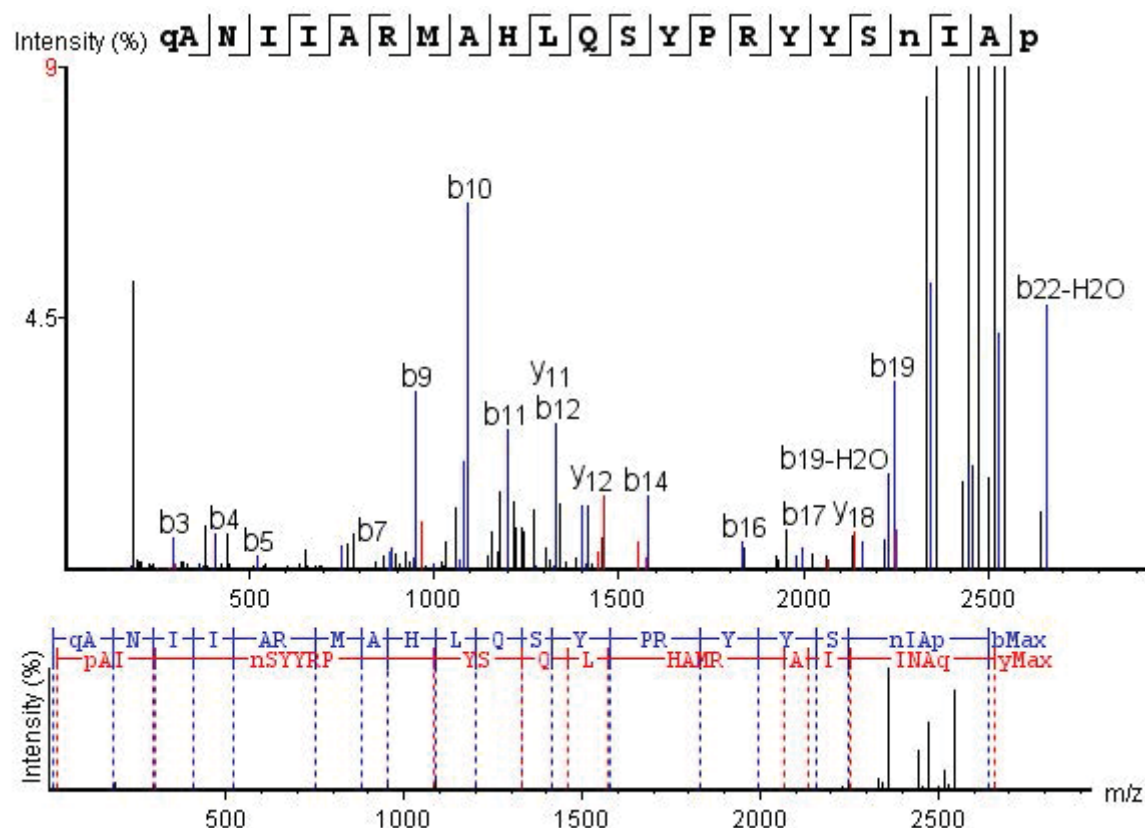
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					10
2	215.10	197.09	198.08	108.05	V	1124.66	1106.65	1107.63	562.83	9
3	328.19	310.18	311.16	164.59	L	1025.59	1007.58	1008.56	513.29	8
4	443.21	425.23	426.19	222.11	D	912.50	894.49	895.48	456.75	7
5	571.27	553.26	554.24	286.15	Q	797.48	779.47	780.45	399.24	6
6	668.32	650.31	651.30	334.66	P	669.42	651.41	652.39	335.21	5
7	781.41	763.43	764.38	391.20	L	572.37	554.36	555.34	286.68	4
8	967.49	949.48	950.46	484.24	W	459.28	441.27	442.26	230.14	3
9	1066.56	1048.55	1049.53	533.78	V	273.20	255.19	256.18	137.10	2
10					R(-98)	174.13	156.12	157.11	87.57	1



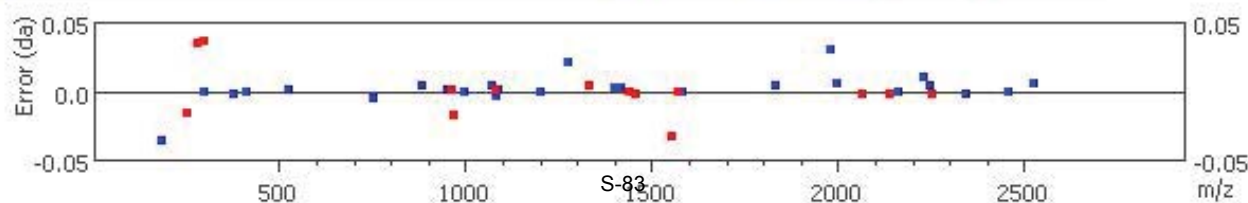


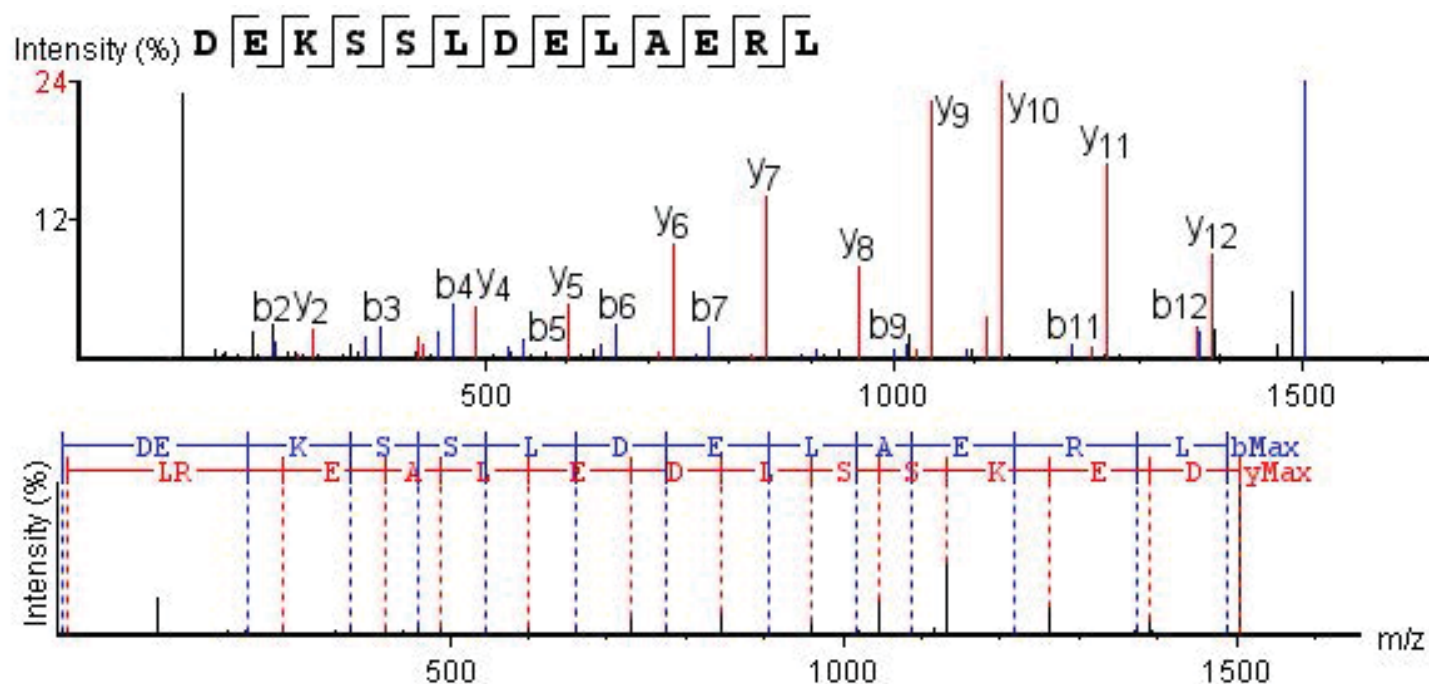
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	164.07	146.06	147.08	82.54	Y					11
2	235.11	217.10	218.08	118.05	A	1202.67	1184.67	1185.65	601.84	10
3	363.17	345.16	346.14	182.08	Q	1131.64	1113.63	1114.62	566.32	9
4	492.21	474.20	475.18	246.60	E	1003.58	985.57	986.57	502.30	8
5	589.26	571.25	572.24	295.13	P	874.54	856.53	857.51	437.77	7
6	717.36	699.34	700.33	359.18	K	777.48	759.48	760.46	389.22	6
7	880.42	862.41	863.39	440.71	Y	649.39	631.42	632.36	325.20	5
8	993.50	975.49	976.48	497.25	L	486.33	468.32	469.30	243.66	4
9	1106.59	1088.58	1089.56	553.79	L	373.24	355.20	356.22	187.12	3
10	1219.67	1201.66	1202.67	610.34	I	260.16	242.15	243.13	130.58	2
11					Q(.00)	147.08	129.10	130.05	74.04	1



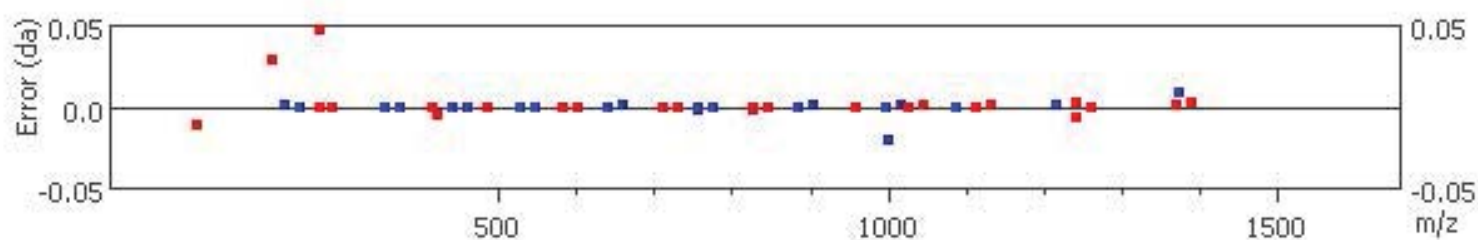


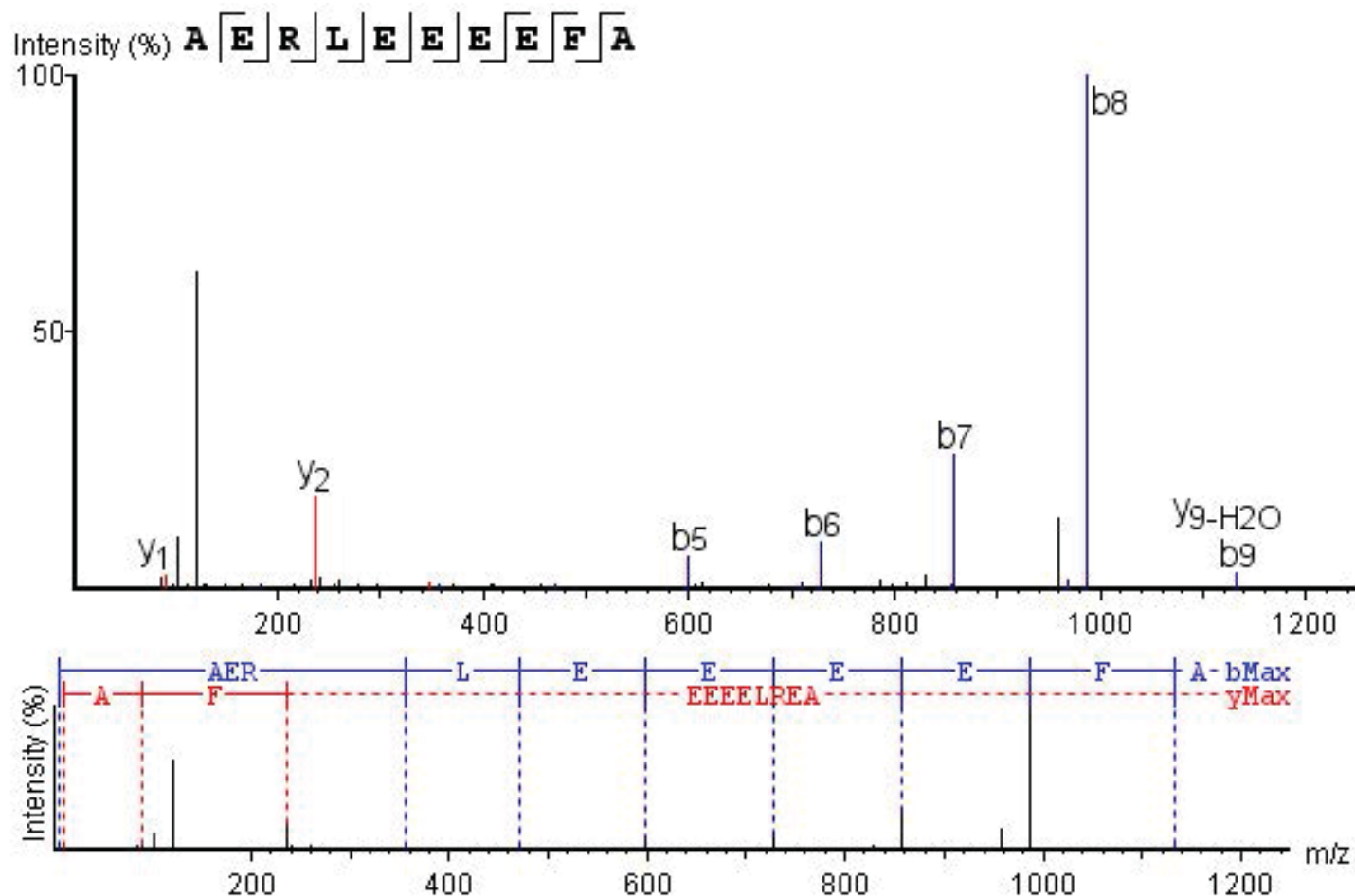
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	112.04	94.03	95.01	56.52	Q(-17.03)					23
2	183.11	165.07	166.05	92.04	A	2549.31	2531.30	2532.28	1275.15	22
3	297.12	279.11	280.09	149.06	N	2478.27	2460.26	2461.24	1239.64	21
4	410.20	392.19	393.18	205.60	I	2364.23	2346.22	2347.20	1182.61	20
5	523.29	505.28	506.26	262.14	I	2251.15	2233.13	2234.12	1126.07	19
6	594.33	576.31	577.30	297.66	A	2138.06	2120.05	2121.03	1069.53	18
7	750.43	732.42	733.40	375.72	R	2067.03	2049.01	2050.00	1034.01	17
8	881.46	863.46	864.44	441.23	M	1910.92	1892.91	1893.89	955.96	16
9	952.50	934.49	935.48	476.75	A	1779.88	1761.87	1762.85	890.44	15
10	1089.56	1071.55	1072.53	545.28	H	1708.84	1690.83	1691.82	854.92	14
11	1202.65	1184.64	1185.62	601.82	L	1571.79	1553.81	1554.76	786.39	13
12	1330.70	1312.69	1313.68	665.85	Q	1458.70	1440.69	1441.67	729.85	12
13	1417.73	1399.72	1400.71	709.37	S	1330.64	1312.63	1313.62	665.82	11
14	1580.80	1562.79	1563.77	790.90	Y	1243.61	1225.60	1226.58	622.31	10
15	1677.85	1659.84	1660.83	839.43	P	1080.54	1062.54	1063.52	540.77	9
16	1833.95	1815.94	1816.93	917.48	R	983.49	965.48	966.49	492.25	8
17	1997.01	1978.98	1979.99	999.01	Y	827.39	809.38	810.37	414.20	7
18	2160.08	2142.07	2143.05	1080.54	Y	664.33	646.32	647.30	332.67	6
19	2247.11	2229.09	2230.09	1124.06	S	501.27	483.26	484.24	251.15	5
20	2362.14	2344.13	2345.11	1181.57	N(+98)	414.23	396.22	397.21	207.62	4
21	2475.22	2457.21	2458.20	1238.11	I	299.17	281.20	282.14	150.10	3
22	2546.26	2528.24	2529.23	1273.61	A	186.12	168.11	169.10	93.56	2
23					P(-98)	115.09	97.08	98.06	58.04	1



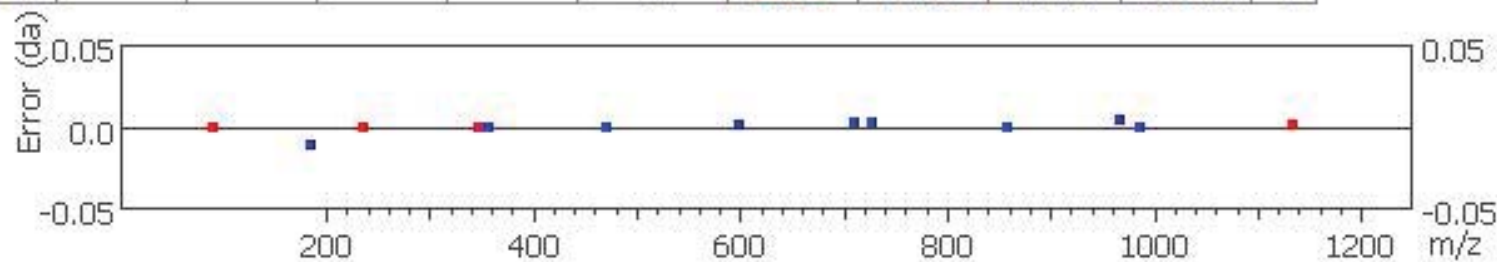


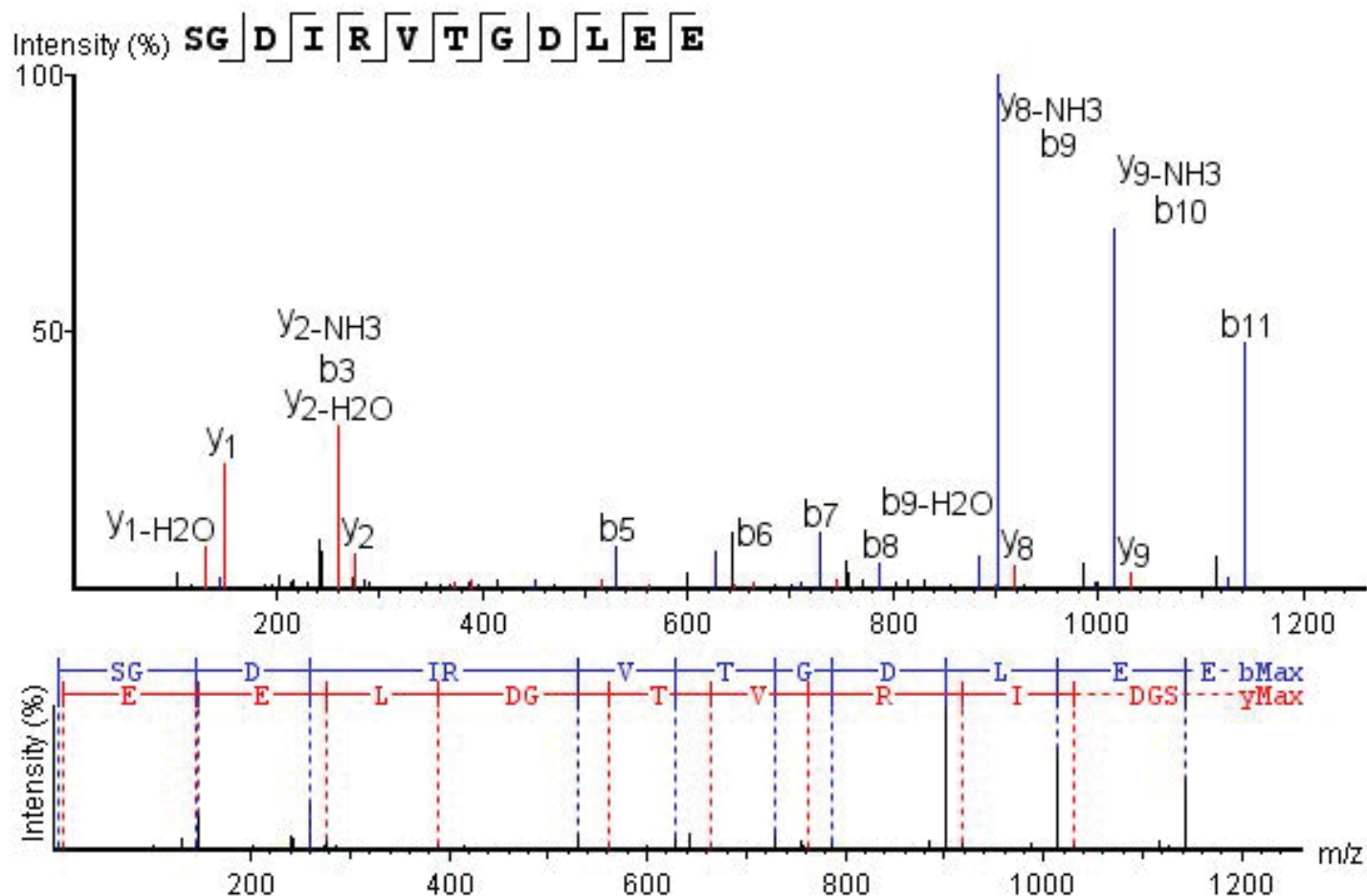
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					13
2	245.08	227.07	228.05	123.04	E	1389.72	1371.71	1372.69	695.36	12
3	373.17	355.16	356.15	187.09	K	1260.68	1242.68	1243.65	630.84	11
4	460.20	442.19	443.18	230.60	S	1132.58	1114.57	1115.56	566.79	10
5	547.24	529.22	530.21	274.12	S	1045.55	1027.54	1028.53	523.28	9
6	660.32	642.31	643.29	330.66	L	958.52	940.51	941.49	479.76	8
7	775.35	757.34	758.32	388.17	D	845.44	827.43	828.41	423.22	7
8	904.39	886.38	887.36	452.69	E	730.41	712.40	713.38	365.70	6
9	1017.47	999.46	1000.47	509.24	L	601.37	583.36	584.34	301.18	5
10	1088.51	1070.50	1071.48	544.76	A	488.28	470.27	471.26	244.64	4
11	1217.55	1199.54	1200.53	609.28	E	417.24	399.24	400.22	209.09	3
12	1373.65	1355.64	1356.63	687.33	R	288.20	270.14	271.17	144.60	2
13					L	132.10	114.09	115.09	66.55	1



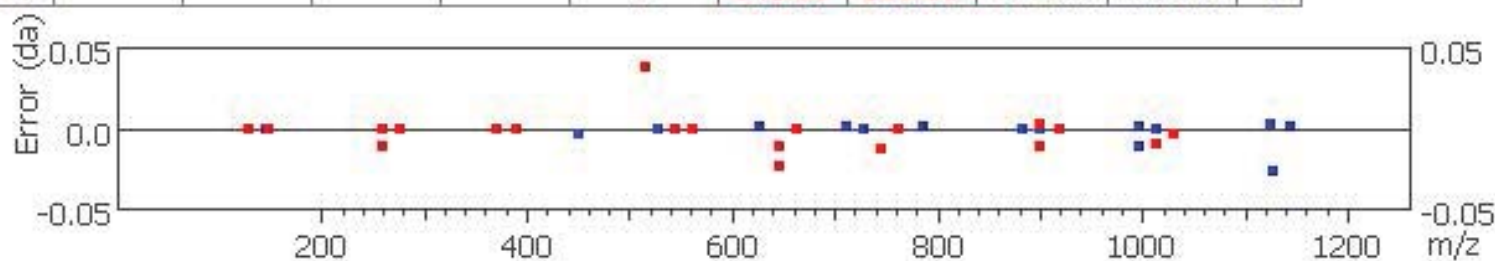


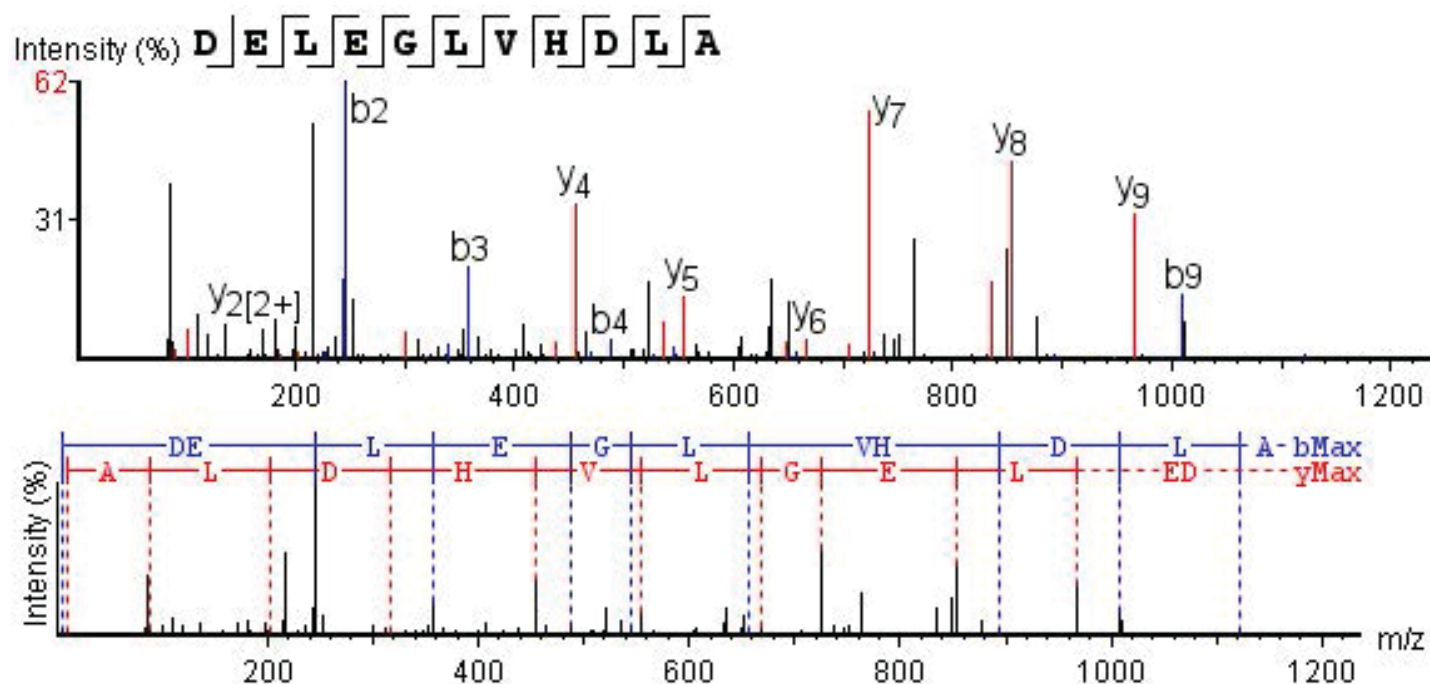
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					10
2	201.09	183.08	184.07	101.04	E	1151.52	1133.51	1134.49	576.26	9
3	357.19	339.18	340.16	179.09	R	1022.48	1004.47	1005.45	511.74	8
4	470.27	452.26	453.25	235.64	L	866.38	848.37	849.35	433.69	7
5	599.31	581.30	582.29	300.16	E	753.29	735.28	736.27	377.15	6
6	728.35	710.34	711.33	364.68	E	624.25	606.24	607.22	312.63	5
7	857.40	839.39	840.37	429.20	E	495.21	477.20	478.18	248.10	4
8	986.44	968.43	969.42	493.72	E	366.17	348.15	349.14	183.58	3
9	1133.51	1115.50	1116.48	567.26	F	237.12	219.11	220.10	119.06	2
10					A	90.06	72.04	73.03	45.53	1



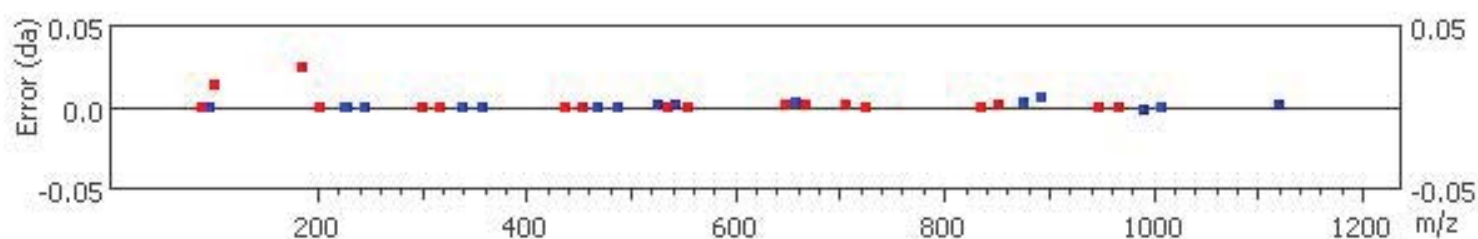


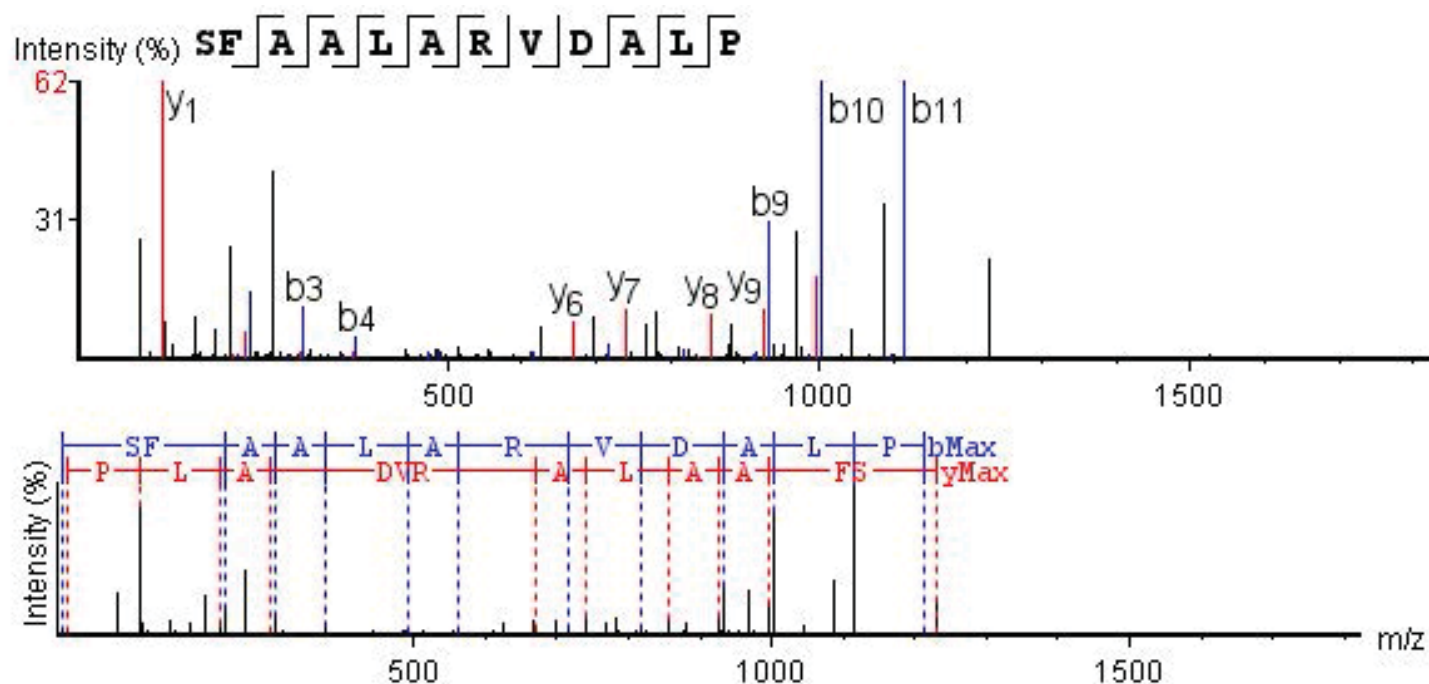
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					12
2	145.06	127.05	128.03	73.03	G	1203.59	1185.57	1186.56	602.29	11
3	260.09	242.08	243.06	130.54	D	1146.56	1128.55	1129.54	573.78	10
4	373.17	355.16	356.15	187.09	I	1031.54	1013.53	1014.52	516.23	9
5	529.27	511.26	512.25	265.14	R	918.45	900.44	901.44	459.73	8
6	628.34	610.33	611.31	314.67	V	762.35	744.34	745.34	381.68	7
7	729.39	711.38	712.36	365.19	T	663.28	645.30	646.27	332.14	6
8	786.41	768.40	769.38	393.71	G	562.24	544.22	545.21	281.62	5
9	901.44	883.43	884.41	451.22	D	505.21	487.20	488.19	253.11	4
10	1014.52	996.51	997.51	507.76	L	390.19	372.18	373.16	195.59	3
11	1143.56	1125.55	1126.56	572.28	E	277.10	259.09	260.09	139.05	2
12					E	148.06	130.05	131.03	74.53	1



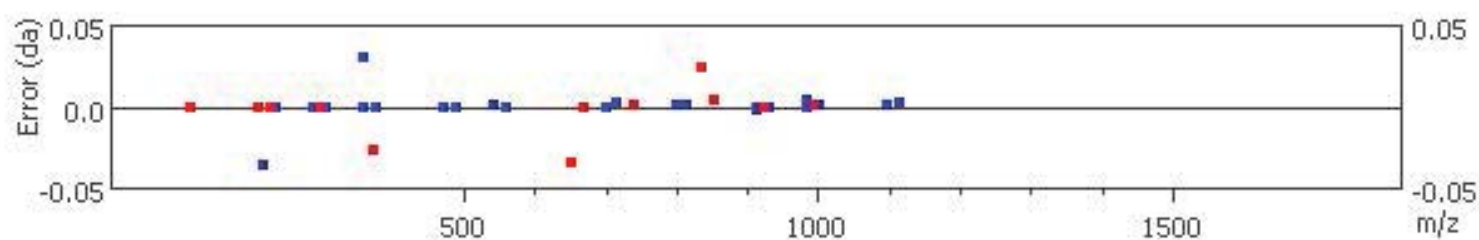


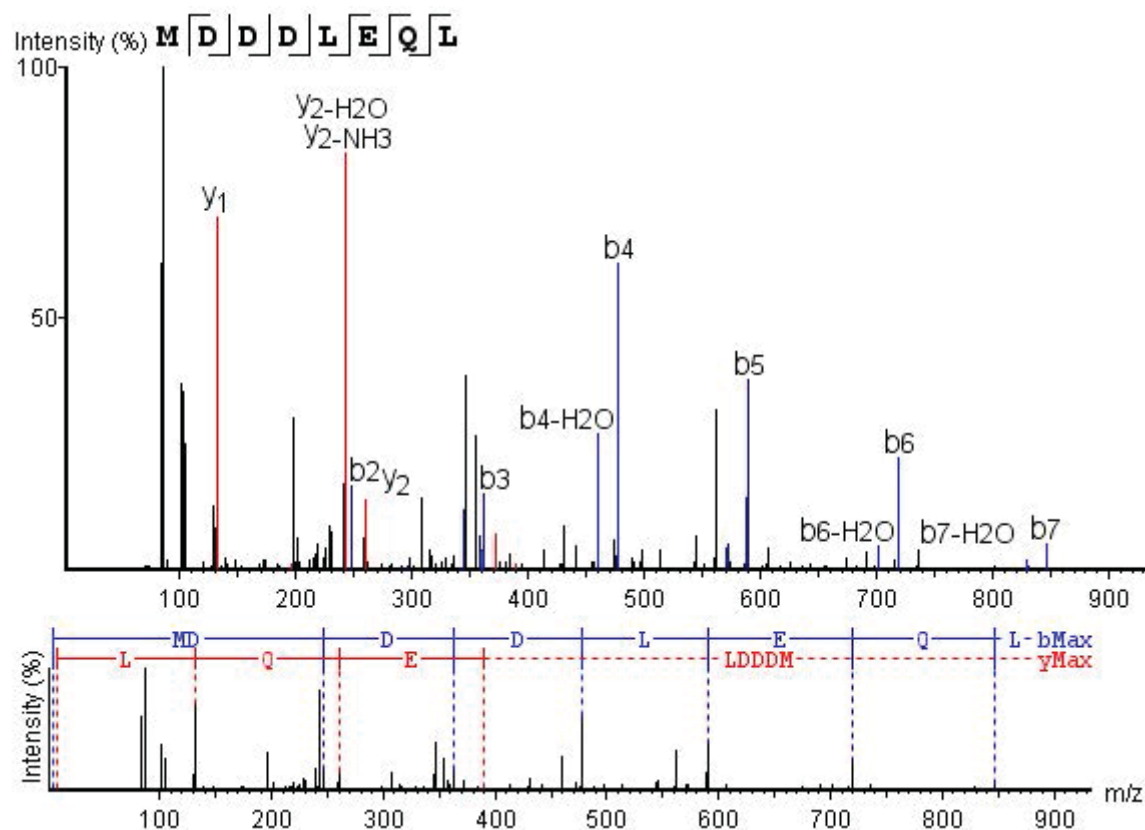
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					11
2	245.08	227.07	228.05	123.04	E	1095.57	1077.56	1078.54	548.28	10
3	358.16	340.15	341.13	179.58	L	966.52	948.52	949.50	483.76	9
4	487.20	469.19	470.18	244.10	E	853.44	835.43	836.41	427.22	8
5	544.22	526.21	527.20	272.61	G	724.40	706.39	707.37	362.70	7
6	657.30	639.30	640.28	329.15	L	667.38	649.37	650.35	334.19	6
7	756.38	738.37	739.35	378.69	V	554.29	536.28	537.27	277.65	5
8	893.43	875.42	876.41	447.22	H	455.22	437.21	438.20	228.11	4
9	1008.46	990.46	991.44	504.73	D	318.16	300.15	301.14	159.58	3
10	1121.55	1103.54	1104.52	561.27	L	203.14	185.13	186.09	102.06	2
11					A	90.06	72.04	73.03	45.53	1



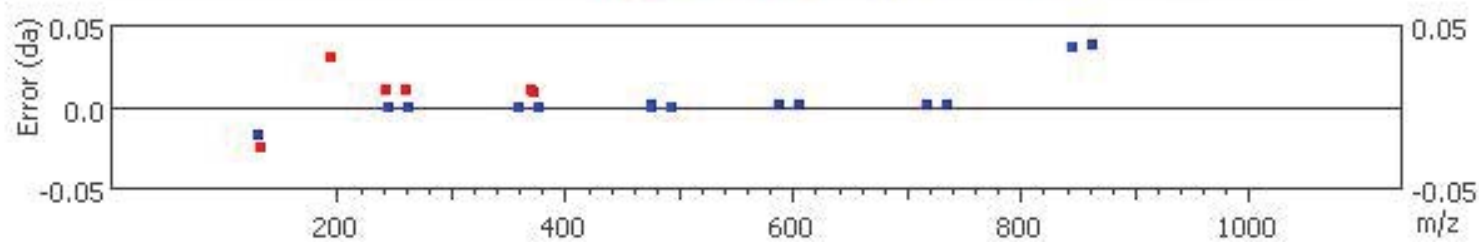


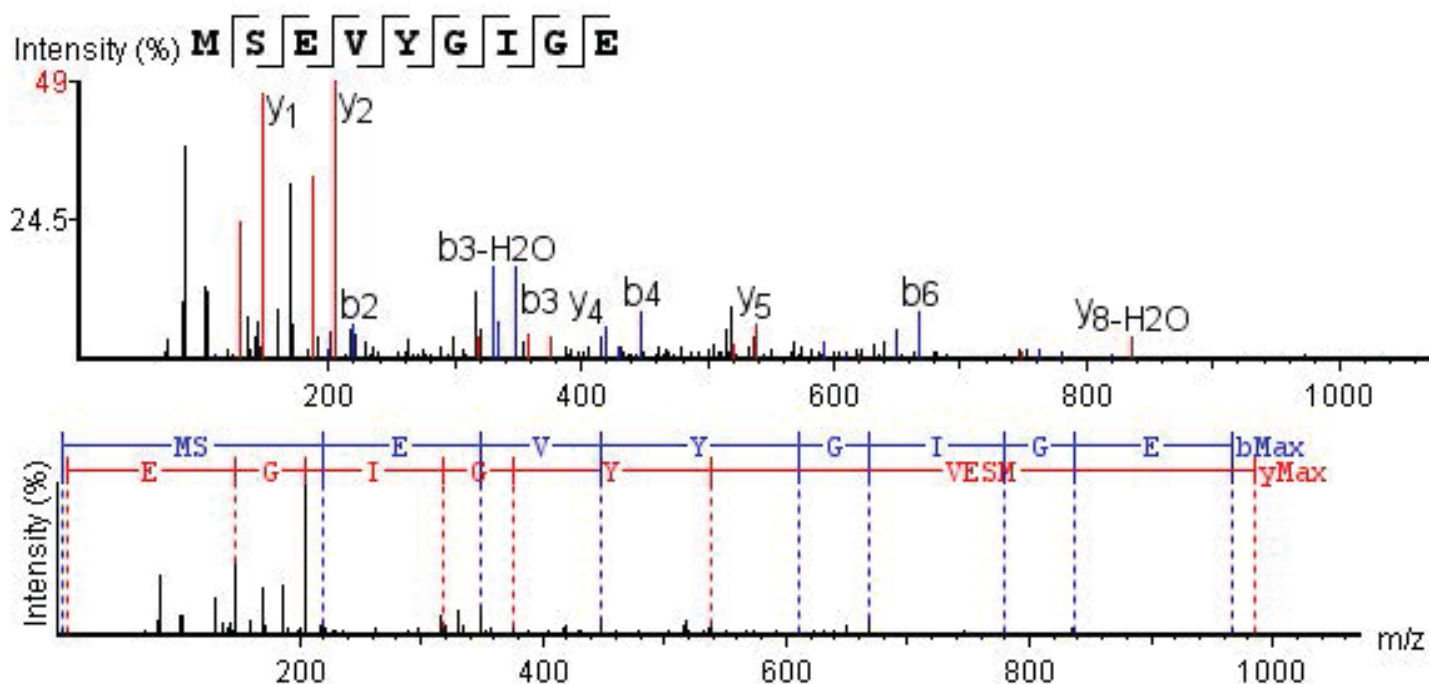
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					12
2	235.11	217.13	218.08	118.05	F	1143.65	1125.64	1126.62	572.33	11
3	306.14	288.13	289.12	153.57	A	996.58	978.57	979.56	498.79	10
4	377.18	359.17	360.16	189.09	A	925.55	907.54	908.52	463.27	9
5	490.27	472.26	473.24	245.63	L	854.50	836.50	837.46	427.75	8
6	561.30	543.29	544.28	281.15	A	741.42	723.41	724.40	371.24	7
7	717.40	699.39	700.38	359.17	R	670.39	652.41	653.36	335.69	6
8	816.47	798.46	799.44	408.74	V	514.29	496.28	497.26	257.64	5
9	931.50	913.49	914.48	466.25	D	415.22	397.21	398.19	208.11	4
10	1002.53	984.52	985.51	501.77	A	300.19	282.18	283.16	150.60	3
11	1115.62	1097.61	1098.59	558.31	L	229.15	211.14	212.13	115.08	2
12					P	116.07	98.06	99.04	58.54	1



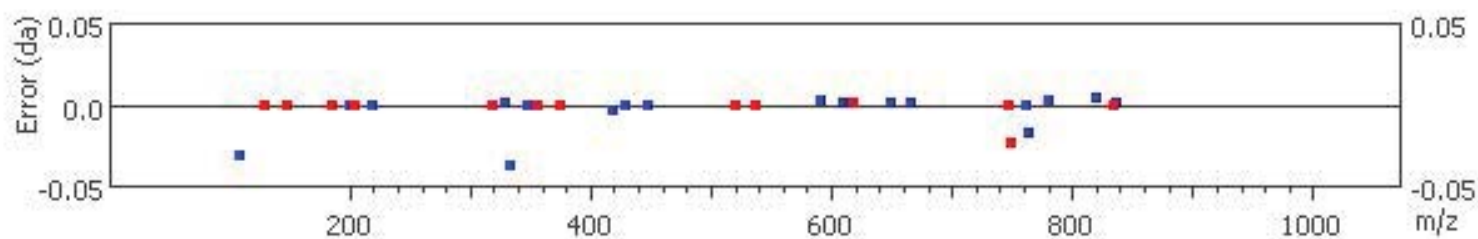


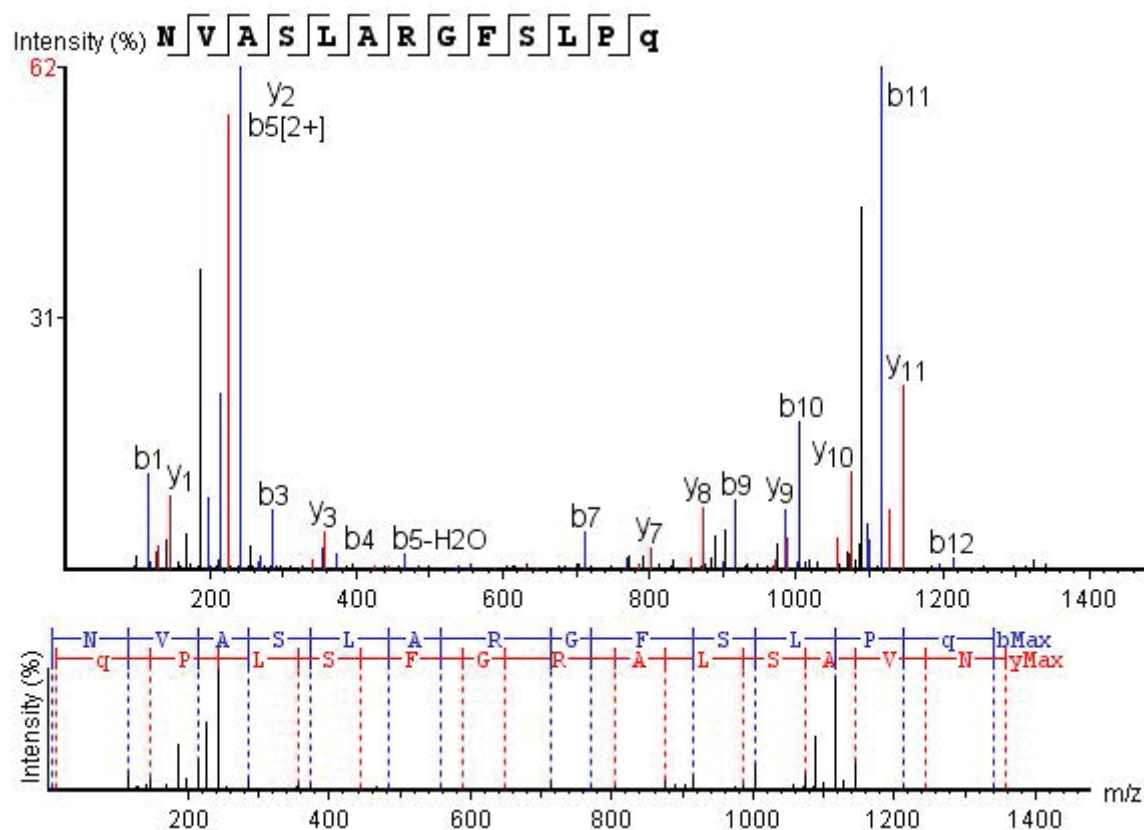
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	148.04	130.05	131.02	74.52	M(+15.99)					8
2	263.07	245.06	246.04	132.04	D	847.38	829.37	830.35	424.19	7
3	378.10	360.09	361.07	189.55	D	732.35	714.34	715.33	366.68	6
4	493.12	475.11	476.10	247.06	D	617.33	599.31	600.30	309.16	5
5	606.21	588.20	589.18	303.60	L	502.30	484.29	485.27	251.65	4
6	735.25	717.24	718.22	368.13	E	389.21	371.19	372.18	195.08	3
7	863.31	845.30	846.32	432.17	K	260.16	242.15	243.13	130.59	2
8					N(-.98)	132.10	114.07	115.05	66.54	1



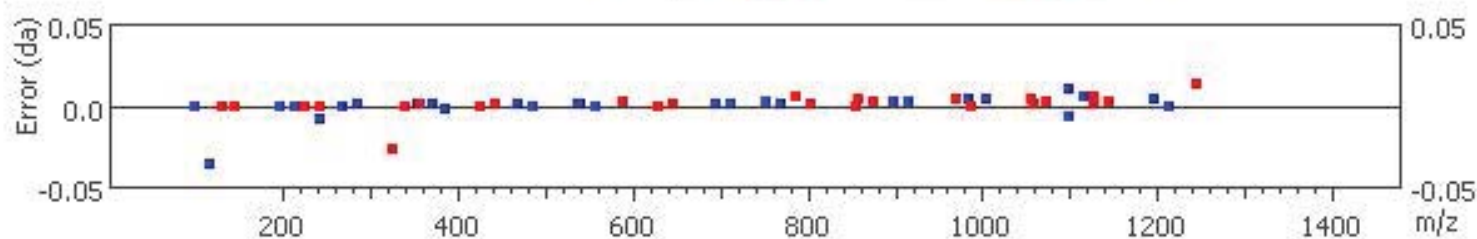


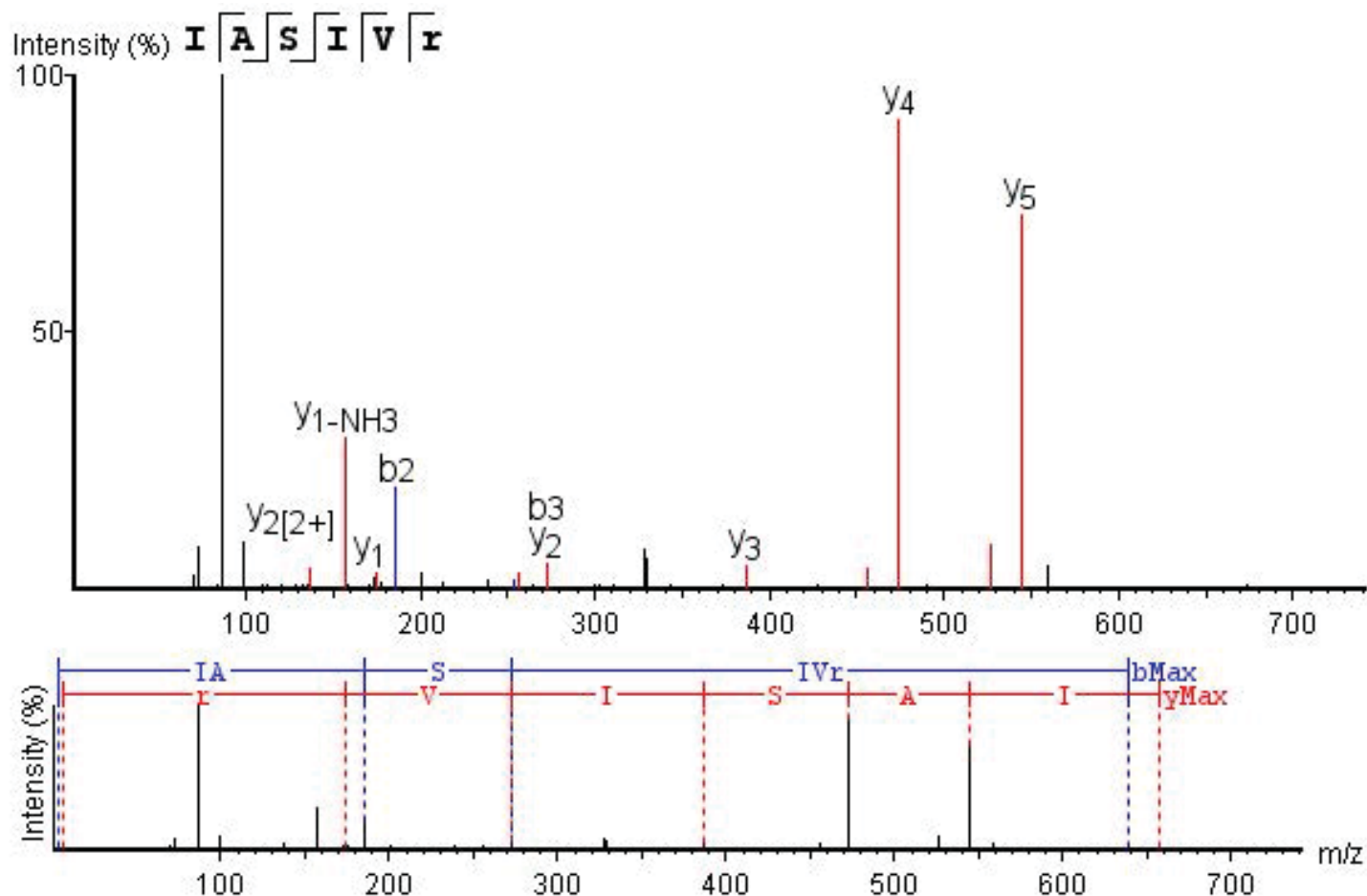
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	132.05	114.04	115.02	66.52	M					9
2	219.08	201.07	202.05	110.07	S	853.39	835.38	836.37	427.20	8
3	348.12	330.11	331.10	174.56	E	766.36	748.35	749.36	383.68	7
4	447.19	429.18	430.16	224.10	V	637.32	619.31	620.29	319.16	6
5	610.25	592.24	593.23	305.63	Y	538.25	520.24	521.22	269.63	5
6	667.27	649.26	650.25	334.18	G	375.19	357.18	358.16	188.09	4
7	780.36	762.35	763.35	390.68	I	318.17	300.16	301.14	159.58	3
8	837.38	819.37	820.35	419.19	G	205.08	187.07	188.05	103.04	2
9					E	148.06	130.05	131.03	74.53	1



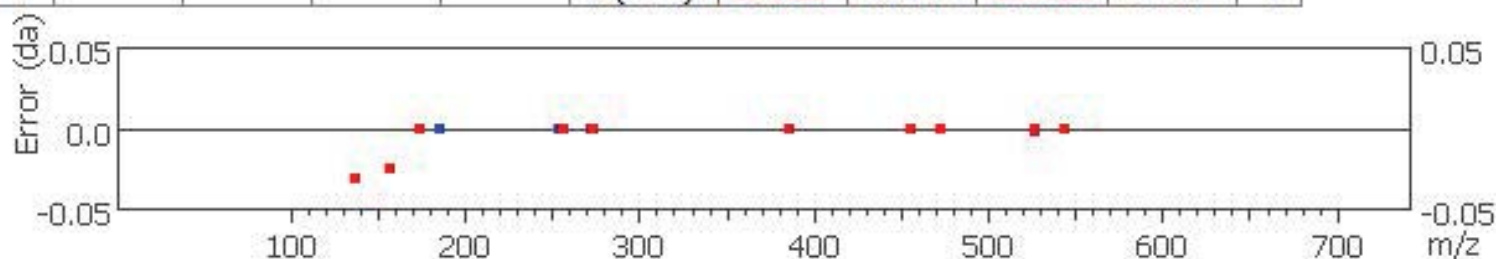


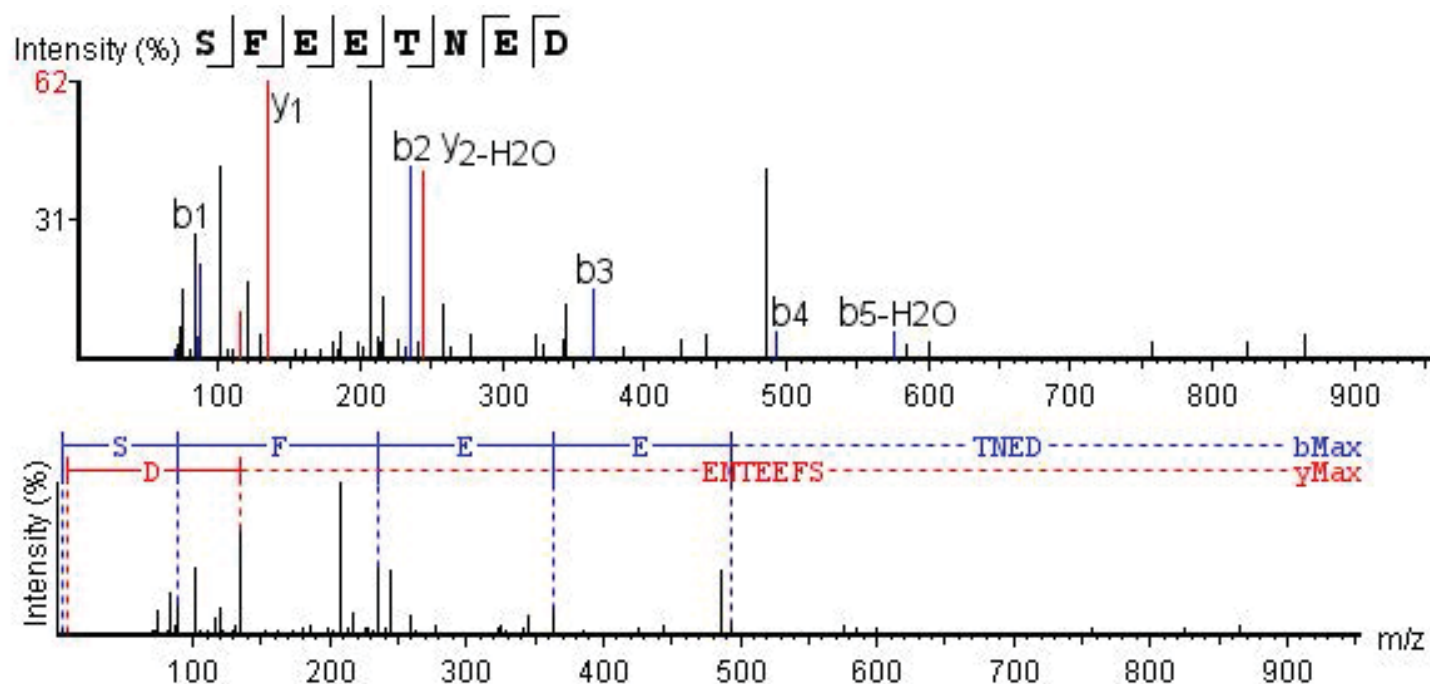
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	115.09	97.04	98.02	58.03	N					13
2	214.12	196.11	197.09	107.56	V	1244.70	1226.70	1227.68	622.86	12
3	285.15	267.14	268.13	143.08	A	1145.64	1127.62	1128.61	573.32	11
4	372.19	354.18	355.16	186.59	S	1074.60	1056.59	1057.58	537.80	10
5	485.27	467.26	468.25	243.14	L	987.57	969.56	970.54	494.29	9
6	556.31	538.30	539.28	278.65	A	874.49	856.48	857.46	437.74	8
7	712.41	694.40	695.38	356.71	R	803.45	785.44	786.42	402.23	7
8	769.43	751.42	752.40	385.22	G	647.35	629.34	630.32	324.20	6
9	916.50	898.49	899.47	458.75	F	590.33	572.32	573.30	295.66	5
10	1003.53	985.52	986.51	502.27	S	443.26	425.25	426.23	222.13	4
11	1116.61	1098.59	1099.60	558.81	L	356.23	338.22	339.20	178.61	3
12	1213.67	1195.65	1196.64	607.33	P	243.14	225.13	226.12	122.07	2
13					Q(-.98)	146.09	128.08	129.07	73.55	1



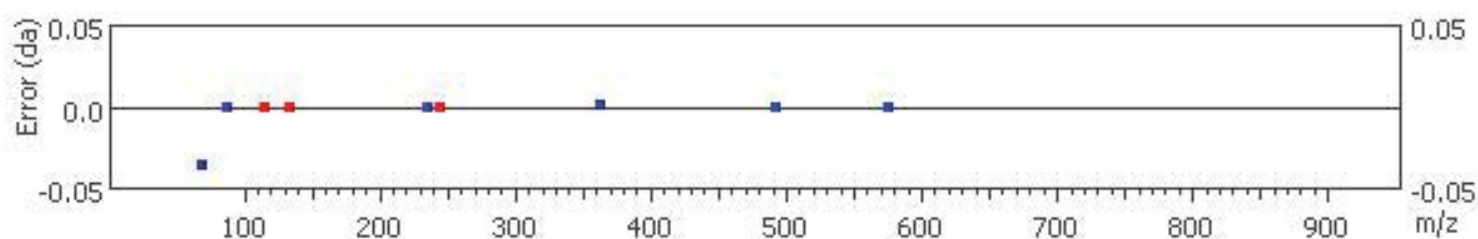


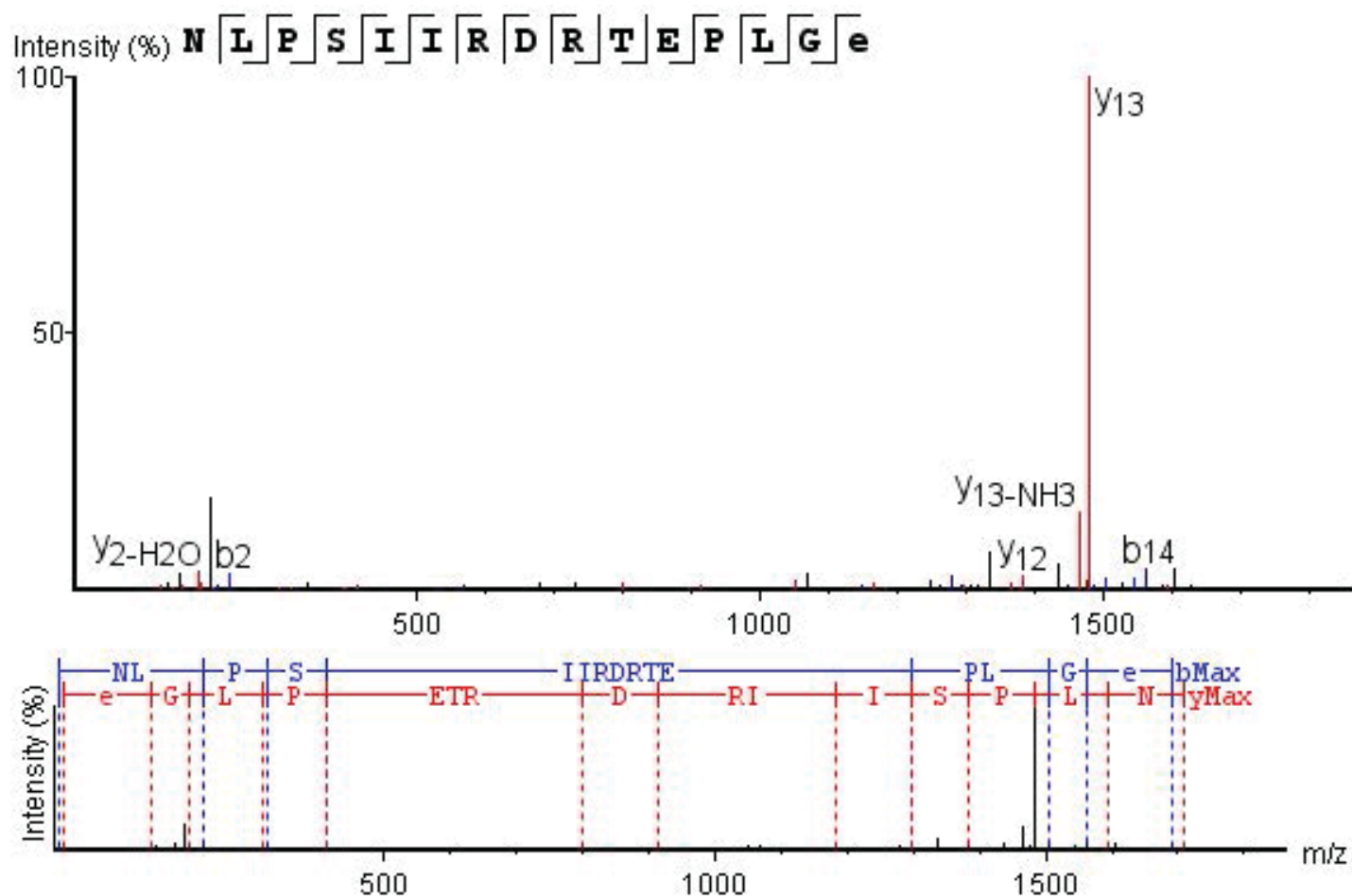
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	114.09	96.08	97.06	57.55	I					6
2	185.13	167.12	168.10	93.06	A	544.36	526.35	527.33	272.68	5
3	272.16	254.15	255.13	136.58	S	473.32	455.31	456.29	237.16	4
4	385.25	367.23	368.22	193.12	I	386.29	368.28	369.26	193.64	3
5	484.31	466.30	467.29	242.66	V	273.20	255.19	256.18	137.13	2
6					R(-.98)	174.13	156.12	157.13	87.57	1



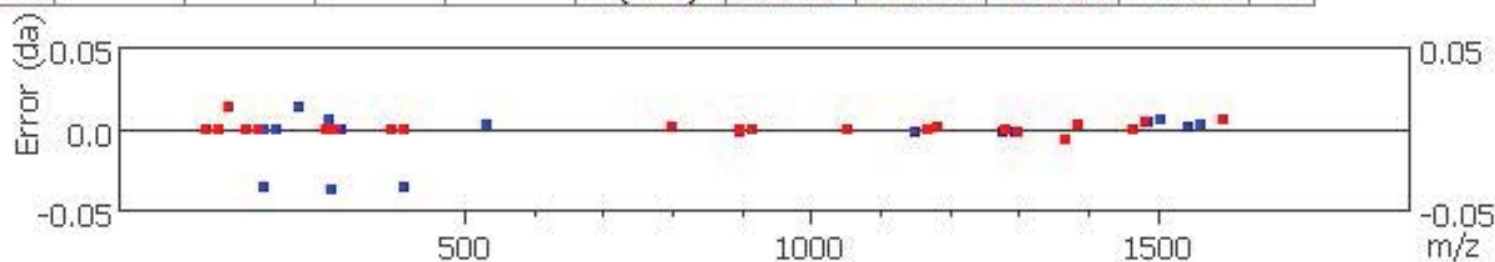


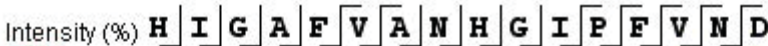
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.07	71.01	44.52	S					8
2	235.11	217.10	218.08	118.05	F	883.33	865.32	866.30	442.17	7
3	364.15	346.14	347.12	182.58	E	736.26	718.25	719.24	368.63	6
4	493.19	475.18	476.17	247.10	E	607.22	589.21	590.19	304.11	5
5	594.24	576.23	577.21	297.62	T	478.18	460.17	461.15	239.59	4
6	708.28	690.27	691.26	354.64	N	377.13	359.12	360.10	189.07	3
7	837.33	819.32	820.30	419.16	E	263.09	245.08	246.06	132.04	2
8					D	134.04	116.03	117.02	67.52	1



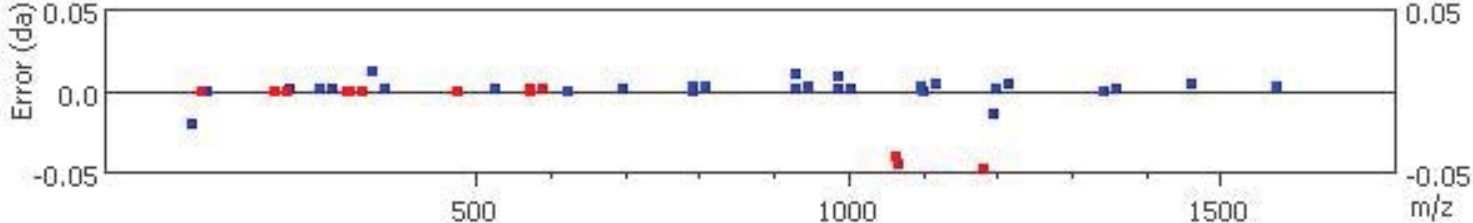


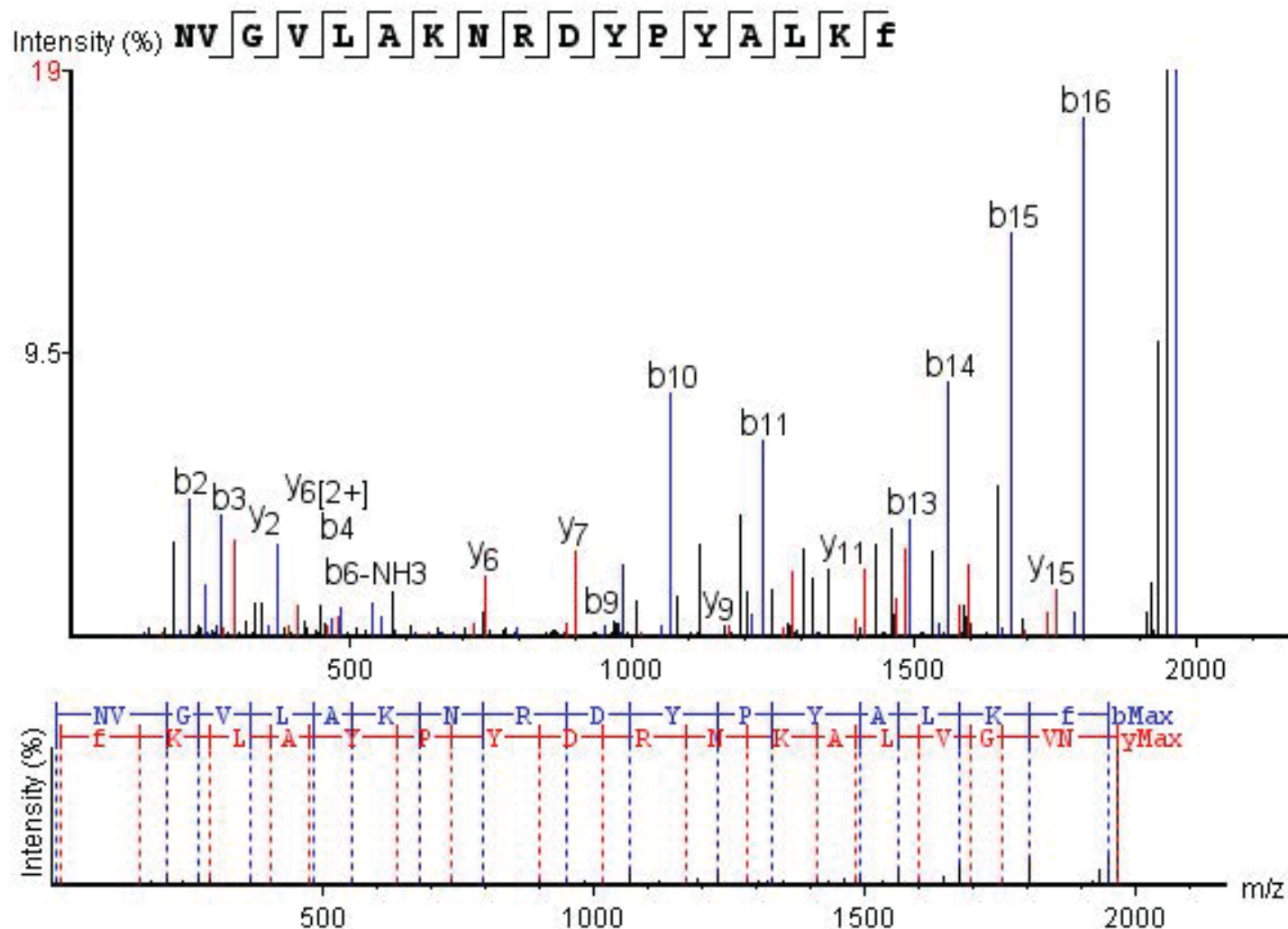
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	115.05	97.04	98.02	58.03	N					15
2	228.13	210.12	211.14	114.57	L	1594.88	1576.88	1577.86	797.95	14
3	325.19	307.17	308.20	163.09	P	1481.80	1463.80	1464.78	741.40	13
4	412.26	394.21	395.19	206.61	S	1384.75	1366.74	1367.73	692.88	12
5	525.30	507.29	508.28	263.14	I	1297.73	1279.71	1280.69	649.36	11
6	638.39	620.38	621.36	319.69	I	1184.64	1166.63	1167.61	592.82	10
7	794.49	776.48	777.46	397.74	R	1071.55	1053.54	1054.53	536.28	9
8	909.52	891.51	892.49	455.26	D	915.45	897.44	898.43	458.23	8
9	1065.62	1047.61	1048.59	533.30	R	800.42	782.42	783.40	400.71	7
10	1166.66	1148.65	1149.64	583.83	T	644.32	626.31	627.30	322.66	6
11	1295.71	1277.70	1278.68	648.35	E	543.28	525.27	526.25	272.14	5
12	1392.76	1374.75	1375.73	696.88	P	414.23	396.22	397.21	207.62	4
13	1505.84	1487.83	1488.81	753.42	L	317.18	299.17	300.16	159.08	3
14	1562.86	1544.85	1545.84	781.93	G	204.10	186.09	187.07	102.55	2
15					E(-.98)	147.08	129.07	130.05	74.04	1



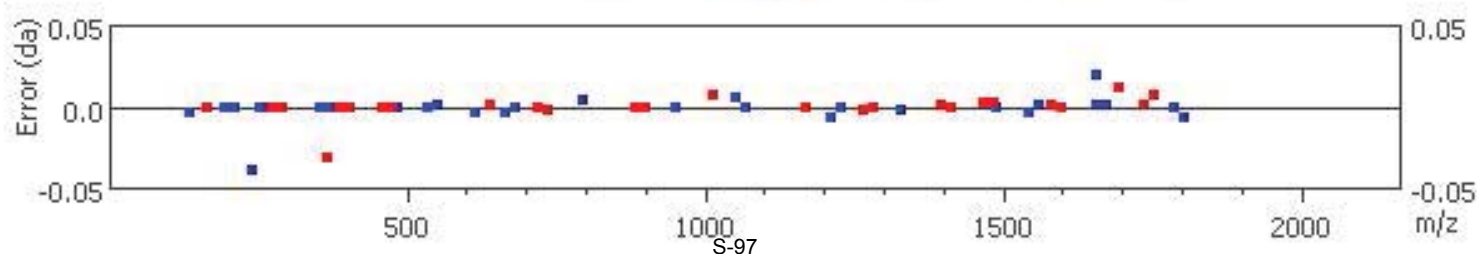


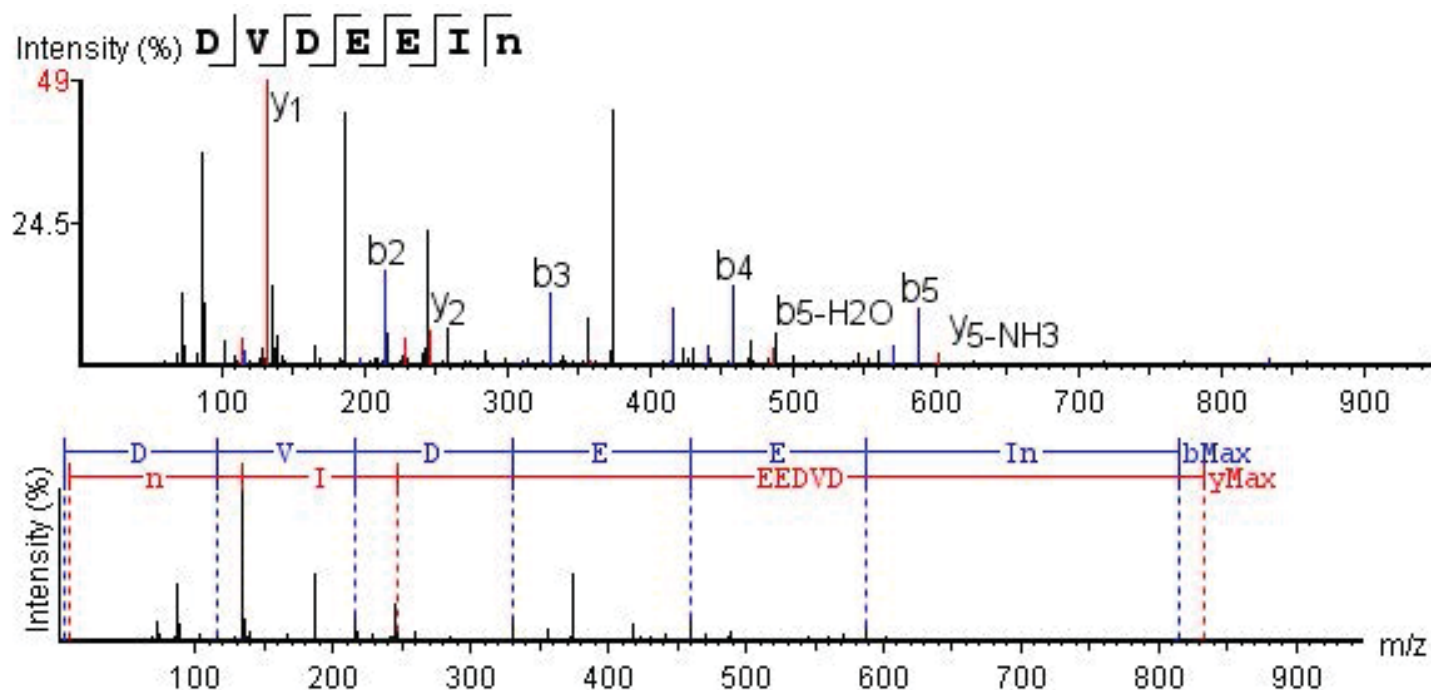
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	138.07	120.08	121.04	69.53	H					16
2	251.15	233.14	234.12	126.08	I	1570.80	1552.79	1553.77	785.90	15
3	308.17	290.16	291.15	154.59	G	1457.72	1439.71	1440.69	729.36	14
4	379.21	361.19	362.18	190.10	A	1400.70	1382.69	1383.67	700.85	13
5	526.28	508.27	509.25	263.64	F	1329.66	1311.65	1312.63	665.33	12
6	625.35	607.34	608.32	313.17	V	1182.64	1164.58	1165.56	591.80	11
7	696.38	678.37	679.36	348.69	A	1083.52	1065.55	1066.54	542.26	10
8	810.42	792.41	793.40	405.71	N	1012.48	994.47	995.46	506.74	9
9	947.48	929.47	930.45	474.24	H	898.44	880.43	881.41	449.72	8
10	1004.50	986.49	987.48	502.75	G	761.38	743.37	744.36	381.19	7
11	1117.59	1099.58	1100.56	559.30	I	704.36	686.35	687.33	352.68	6
12	1214.64	1196.65	1197.61	607.82	P	591.28	573.26	574.25	296.14	5
13	1361.71	1343.70	1344.69	681.36	F	494.22	476.21	477.20	247.61	4
14	1460.77	1442.77	1443.75	730.89	V	347.15	329.14	330.13	174.08	3
15	1574.82	1556.81	1557.80	787.91	N	248.09	230.08	231.06	124.54	2
16					D	134.04	116.03	117.02	67.52	1



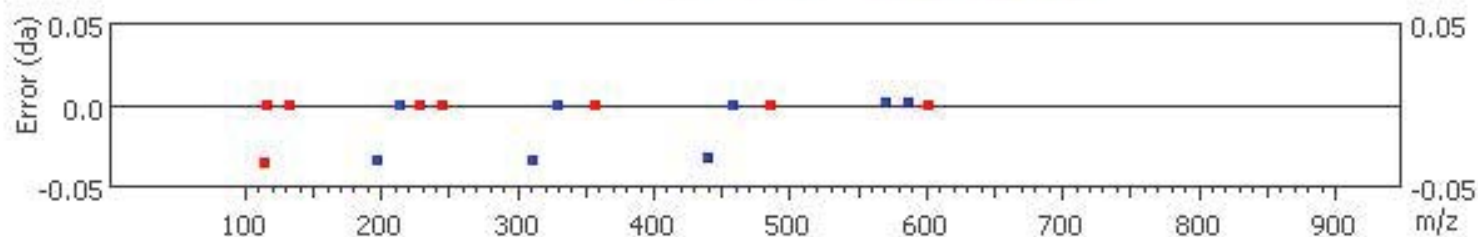


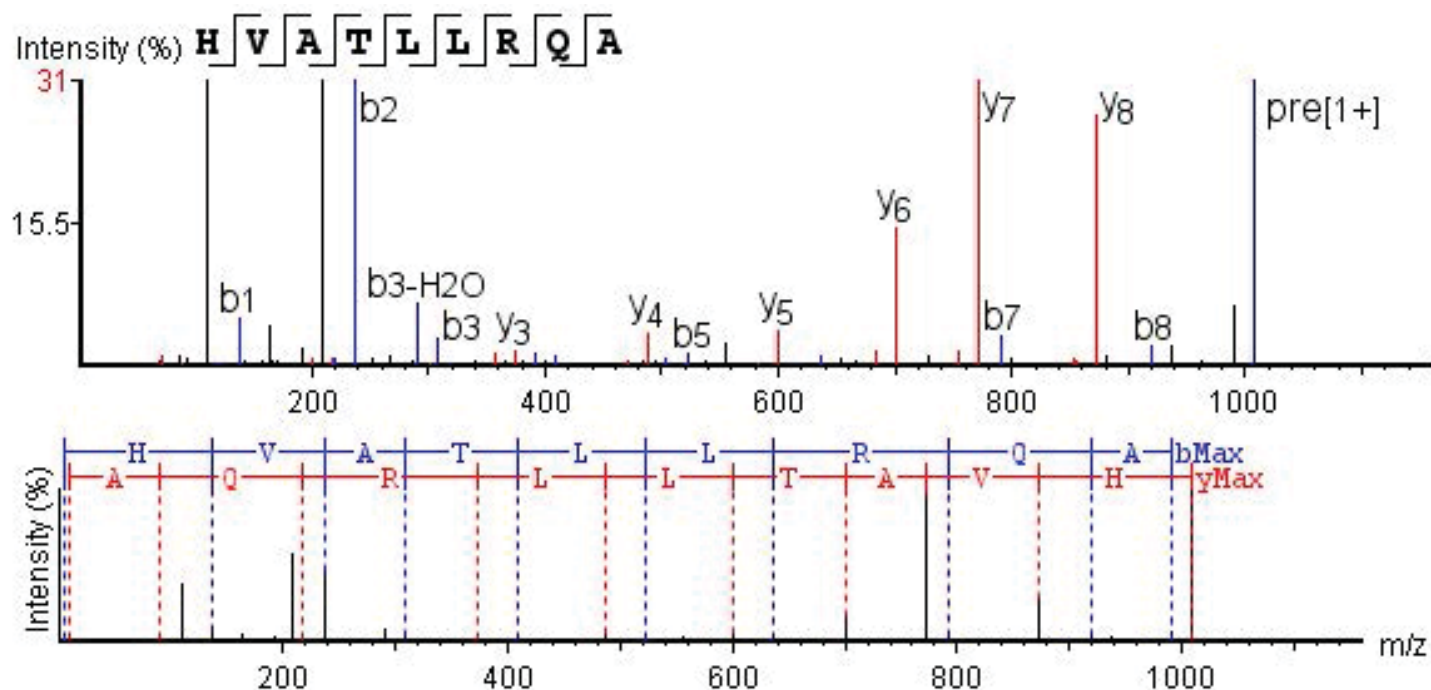
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					17
2	214.12	196.11	197.09	107.56	V	1853.04	1835.03	1836.02	927.02	16
3	271.14	253.13	254.11	136.07	G	1753.97	1735.96	1736.95	877.49	15
4	370.21	352.20	353.18	185.60	V	1696.94	1678.94	1679.93	848.98	14
5	483.29	465.28	466.27	242.19	L	1597.89	1579.87	1580.86	799.44	13
6	554.33	536.32	537.30	277.67	A	1484.80	1466.79	1467.77	742.90	12
7	682.43	664.41	665.40	341.71	K	1413.76	1395.75	1396.73	707.38	11
8	796.46	778.46	779.44	398.73	N	1285.67	1267.66	1268.64	643.33	10
9	952.57	934.56	935.54	476.78	R	1171.63	1153.62	1154.60	586.31	9
10	1067.60	1049.59	1050.56	534.30	D	1015.52	997.51	998.50	508.26	8
11	1230.66	1212.65	1213.64	615.83	Y	900.50	882.49	883.47	450.75	7
12	1327.71	1309.70	1310.69	664.36	P	737.44	719.42	720.41	369.25	6
13	1490.78	1472.77	1473.75	745.89	Y	640.38	622.37	623.35	320.69	5
14	1561.81	1543.80	1544.79	781.41	A	477.32	459.31	460.29	239.16	4
15	1674.89	1656.86	1657.87	837.95	L	406.28	388.27	389.25	203.64	3
16	1803.00	1784.98	1785.97	902.00	K	293.20	275.19	276.17	147.10	2
17					F(-.98)	165.10	147.09	148.08	83.05	1



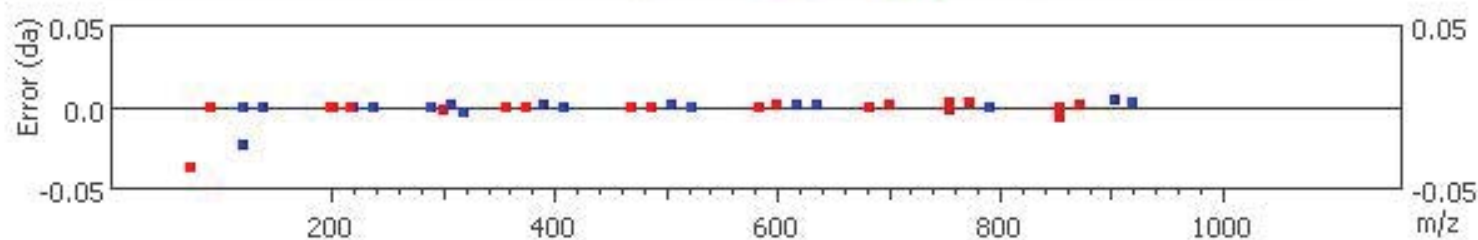


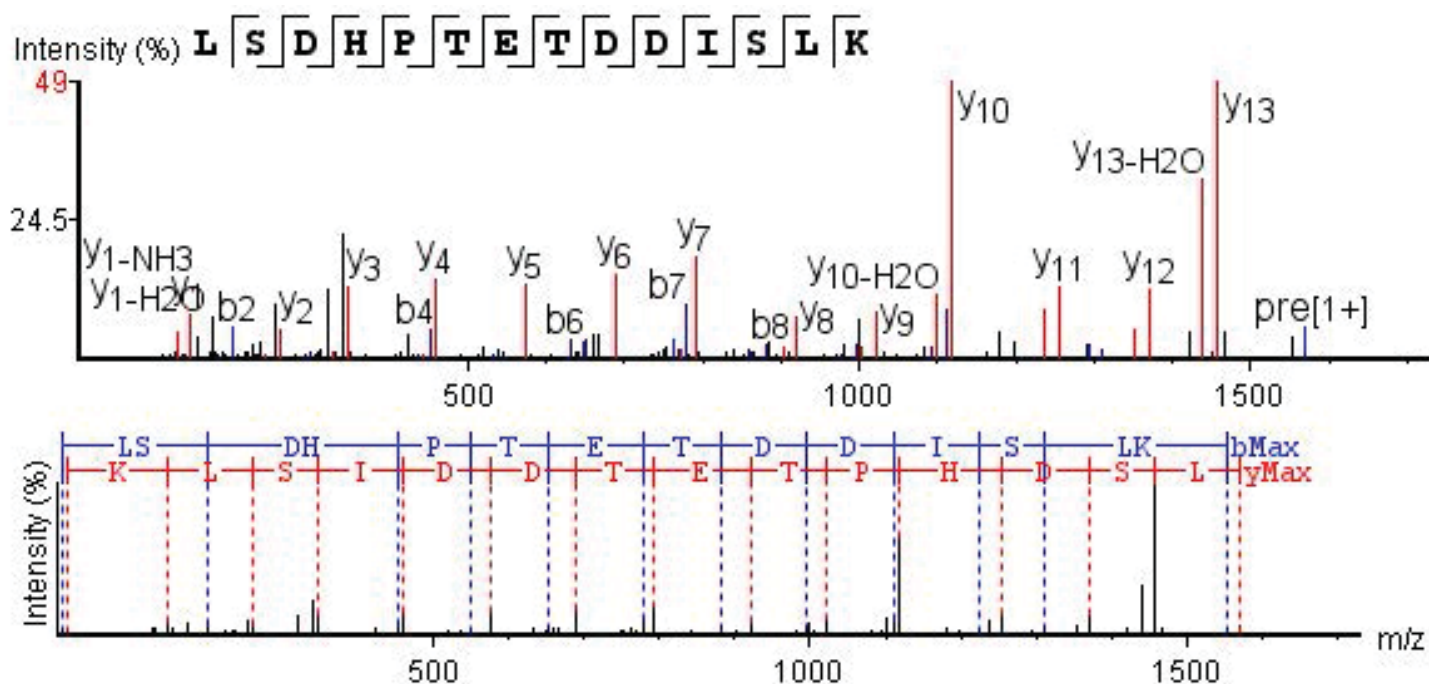
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					7
2	215.10	197.13	198.08	108.05	V	718.33	700.31	701.30	359.66	6
3	330.13	312.15	313.10	165.57	D	619.26	601.25	602.23	310.13	5
4	459.17	441.20	442.15	230.09	E	504.23	486.22	487.20	252.61	4
5	588.21	570.20	571.19	294.61	E	375.19	357.18	358.16	188.09	3
6	701.30	683.29	684.27	351.15	I	246.14	228.13	229.12	123.57	2
7					N(.00)	133.06	115.09	116.03	67.03	1



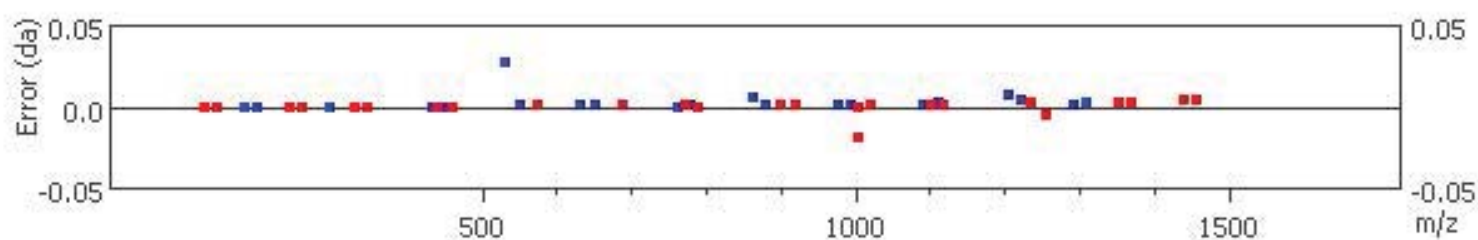


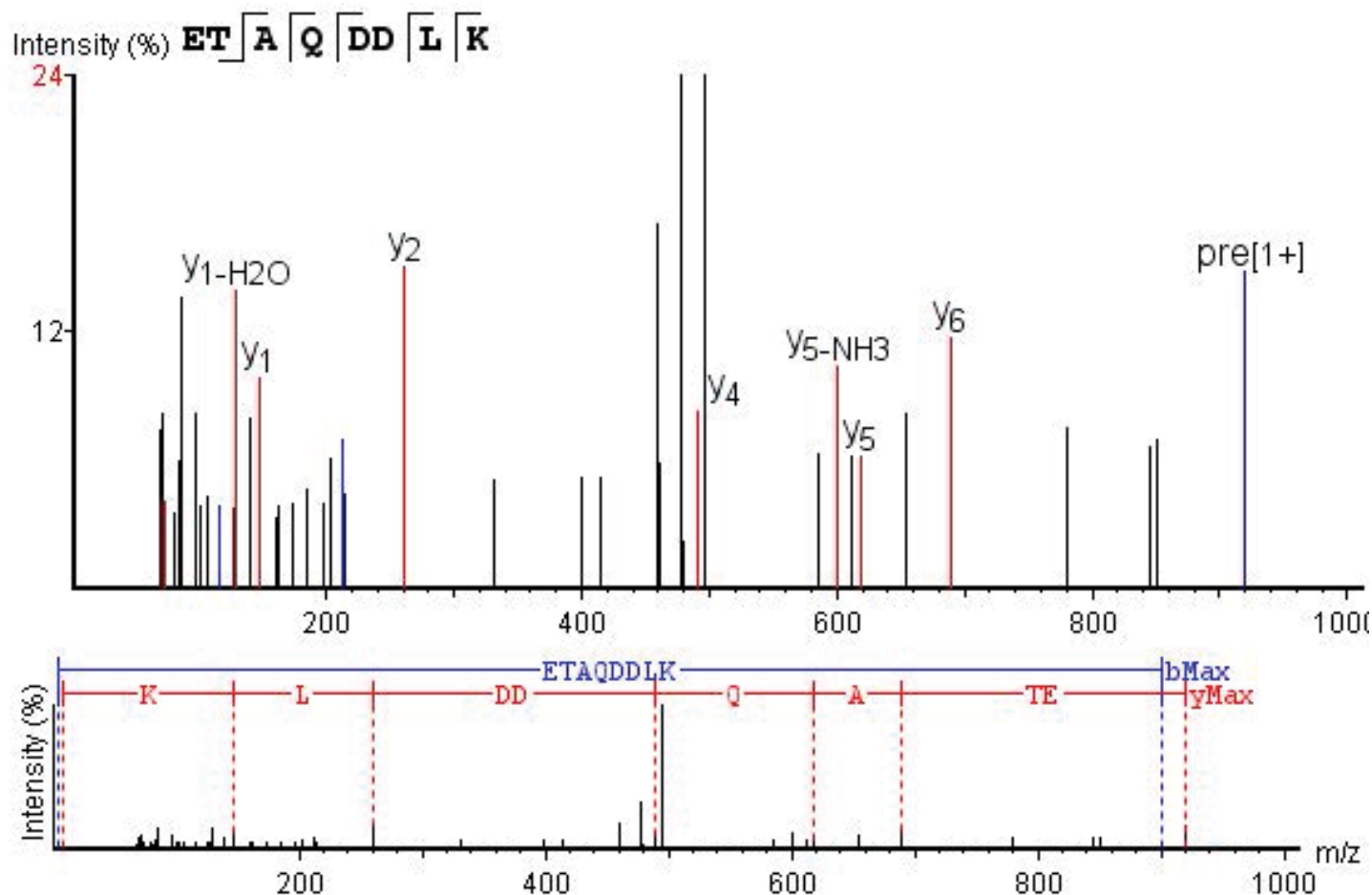
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	138.07	120.08	121.04	69.53	H					9
2	237.13	219.12	220.11	119.07	V	871.53	853.53	854.52	436.27	8
3	308.17	290.16	291.15	154.59	A	772.46	754.45	755.44	386.73	7
4	409.22	391.21	392.19	205.11	T	701.43	683.42	684.40	351.22	6
5	522.30	504.29	505.28	261.65	L	600.38	582.37	583.35	300.69	5
6	635.39	617.37	618.36	318.20	L	487.30	469.29	470.27	244.15	4
7	791.49	773.48	774.46	396.24	R	374.21	356.20	357.19	187.61	3
8	919.54	901.54	902.52	460.27	Q	218.11	200.10	201.09	109.56	2
9					A	90.06	72.08	73.03	45.53	1



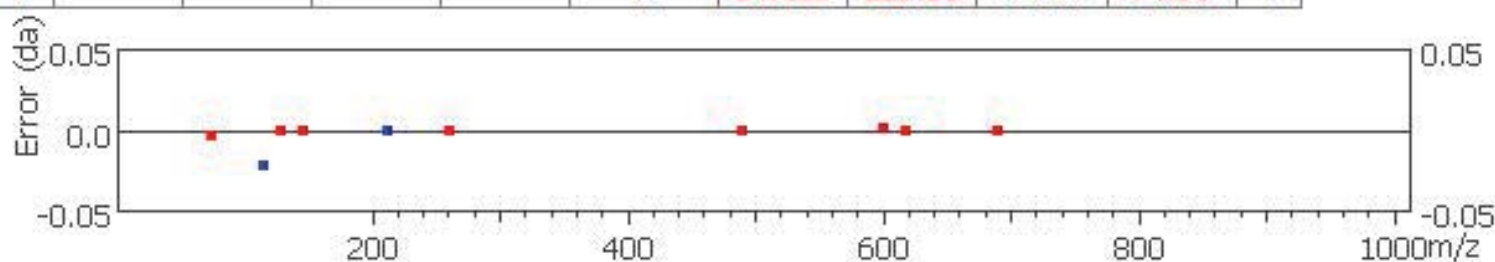


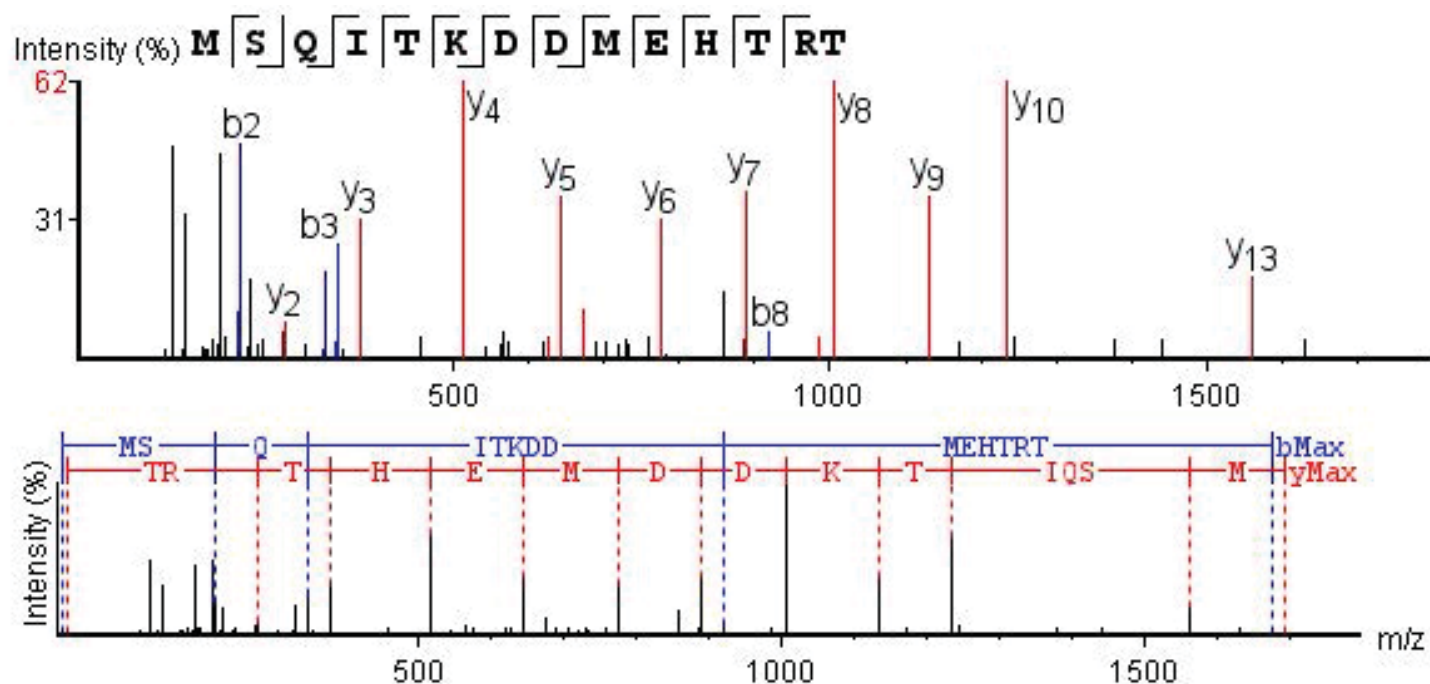
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					14
2	201.12	183.11	184.10	101.06	S	1457.67	1439.66	1440.65	729.34	13
3	316.15	298.14	299.12	158.58	D	1370.64	1352.63	1353.62	685.82	12
4	453.21	435.20	436.18	227.10	H	1255.62	1237.60	1238.59	628.31	11
5	550.26	532.22	533.24	275.63	P	1118.56	1100.55	1101.53	559.78	10
6	651.31	633.30	634.28	326.16	T	1021.50	1003.49	1004.50	511.25	9
7	780.35	762.34	763.33	390.68	E	920.46	902.44	903.43	460.73	8
8	881.40	863.38	864.37	441.20	T	791.41	773.40	774.39	396.21	7
9	996.42	978.41	979.40	498.71	D	690.37	672.36	673.34	345.68	6
10	1111.45	1093.44	1094.43	556.23	D	575.34	557.33	558.31	288.17	5
11	1224.53	1206.52	1207.51	612.77	I	460.31	442.30	443.29	230.66	4
12	1311.57	1293.56	1294.54	656.29	S	347.23	329.22	330.20	174.11	3
13	1424.65	1406.64	1407.63	712.83	L	260.20	242.19	243.17	130.60	2
14					K	147.11	129.10	130.09	74.06	1



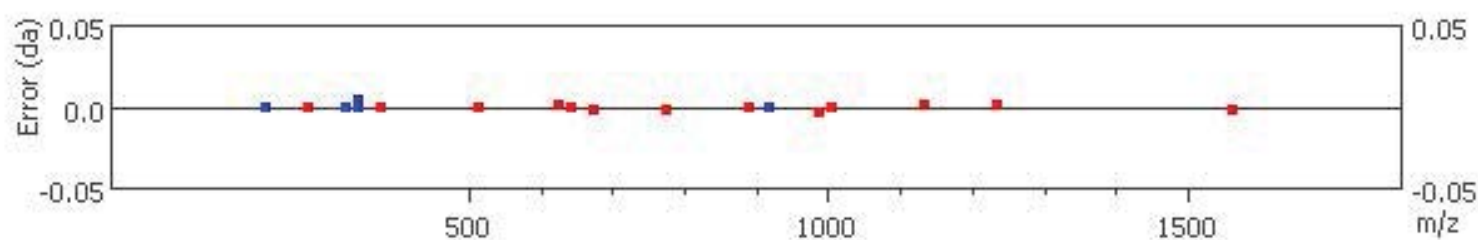


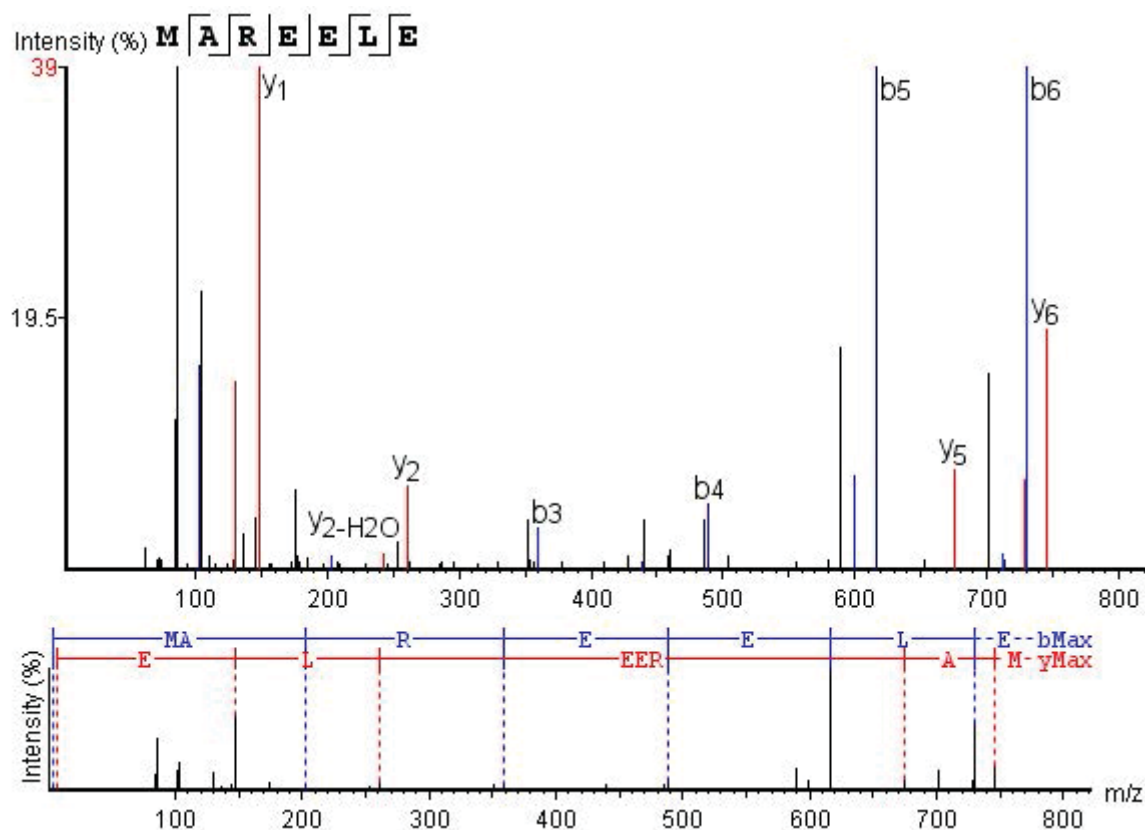
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	130.05	112.04	113.02	65.53	E					8
2	231.10	213.09	214.07	116.07	T	790.39	772.38	773.37	395.70	7
3	302.14	284.12	285.11	151.57	A	689.35	671.34	672.32	345.17	6
4	430.19	412.18	413.17	215.60	Q	618.31	600.30	601.28	309.65	5
5	545.22	527.21	528.19	273.11	D	490.25	472.24	473.22	245.63	4
6	660.25	642.24	643.22	330.62	D	375.22	357.21	358.20	188.11	3
7	773.33	755.32	756.30	387.17	L	260.20	242.19	243.17	130.60	2
8					K	147.11	129.10	130.09	74.06	1



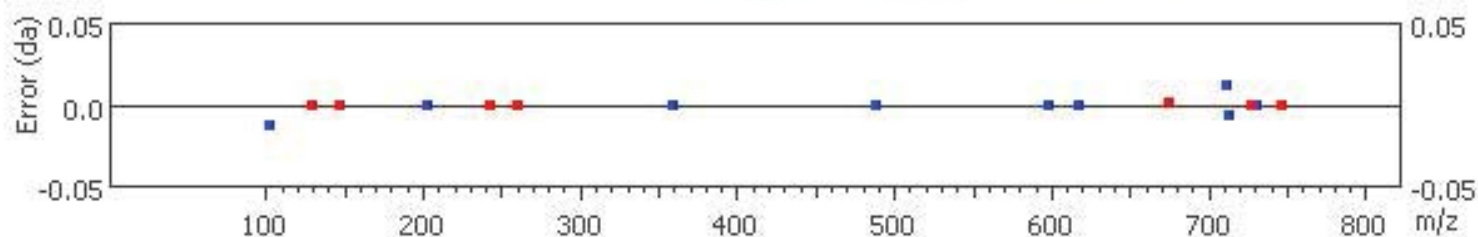


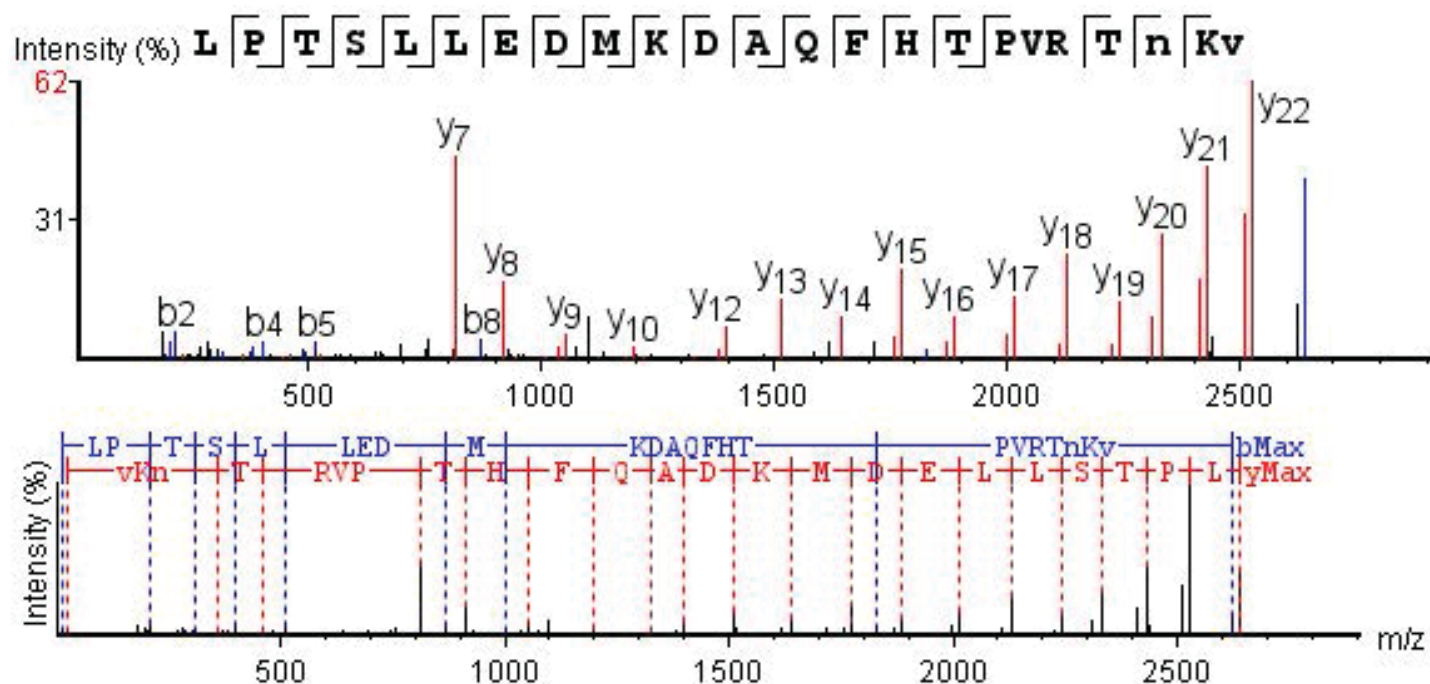
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	132.05	114.04	115.02	66.52	M					14
2	219.08	201.07	202.05	110.04	S	1561.73	1543.72	1544.70	781.36	13
3	347.14	329.13	330.11	174.07	Q	1474.70	1456.68	1457.67	737.85	12
4	460.22	442.21	443.20	230.61	I	1346.64	1328.63	1329.61	673.82	11
5	561.27	543.26	544.24	281.14	T	1233.55	1215.54	1216.53	617.28	10
6	689.37	671.36	672.34	345.18	K	1132.50	1114.49	1115.48	566.75	9
7	804.39	786.38	787.37	402.70	D	1004.41	986.40	987.38	502.71	8
8	919.42	901.41	902.39	460.21	D	889.38	871.37	872.36	445.19	7
9	1050.46	1032.45	1033.43	525.73	M	774.36	756.35	757.33	387.68	6
10	1179.50	1161.49	1162.48	590.25	E	643.32	625.30	626.29	322.16	5
11	1316.56	1298.55	1299.53	658.78	H	514.27	496.26	497.25	257.64	4
12	1417.61	1399.60	1400.58	709.30	T	377.21	359.20	360.19	189.11	3
13	1573.71	1555.70	1556.68	787.36	R	276.17	258.16	259.14	138.58	2
14					T	120.07	102.05	103.04	60.53	1



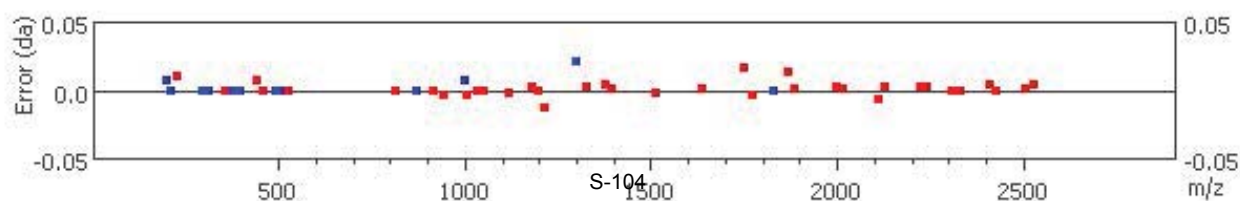


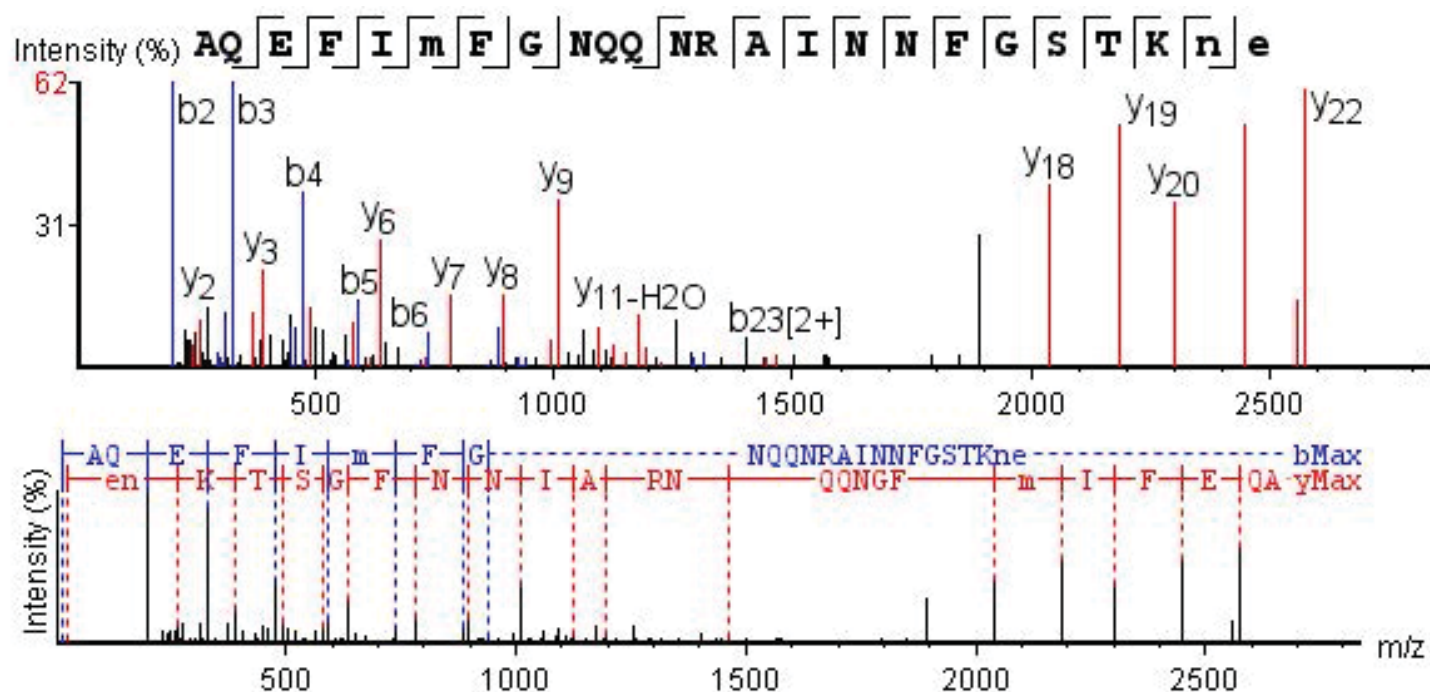
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	132.05	114.04	115.02	66.52	M					7
2	203.08	185.07	186.06	102.06	A	746.37	728.36	729.34	373.68	6
3	359.19	341.18	342.16	180.09	R	675.33	657.32	658.30	338.17	5
4	488.23	470.22	471.20	244.61	E	519.23	501.22	502.20	260.11	4
5	617.27	599.26	600.24	309.14	E	390.19	372.18	373.16	195.59	3
6	730.36	712.33	713.34	365.68	L	261.14	243.13	244.12	131.07	2
7					E	148.06	130.05	131.03	74.53	1



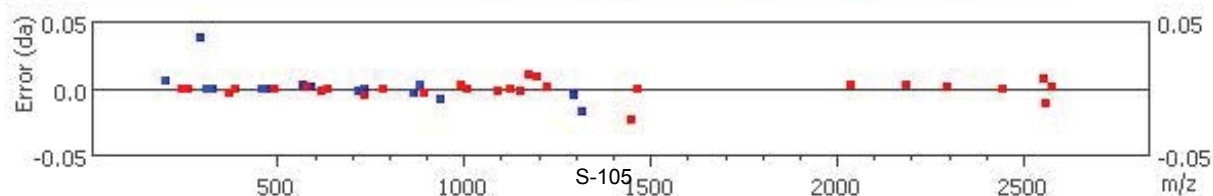


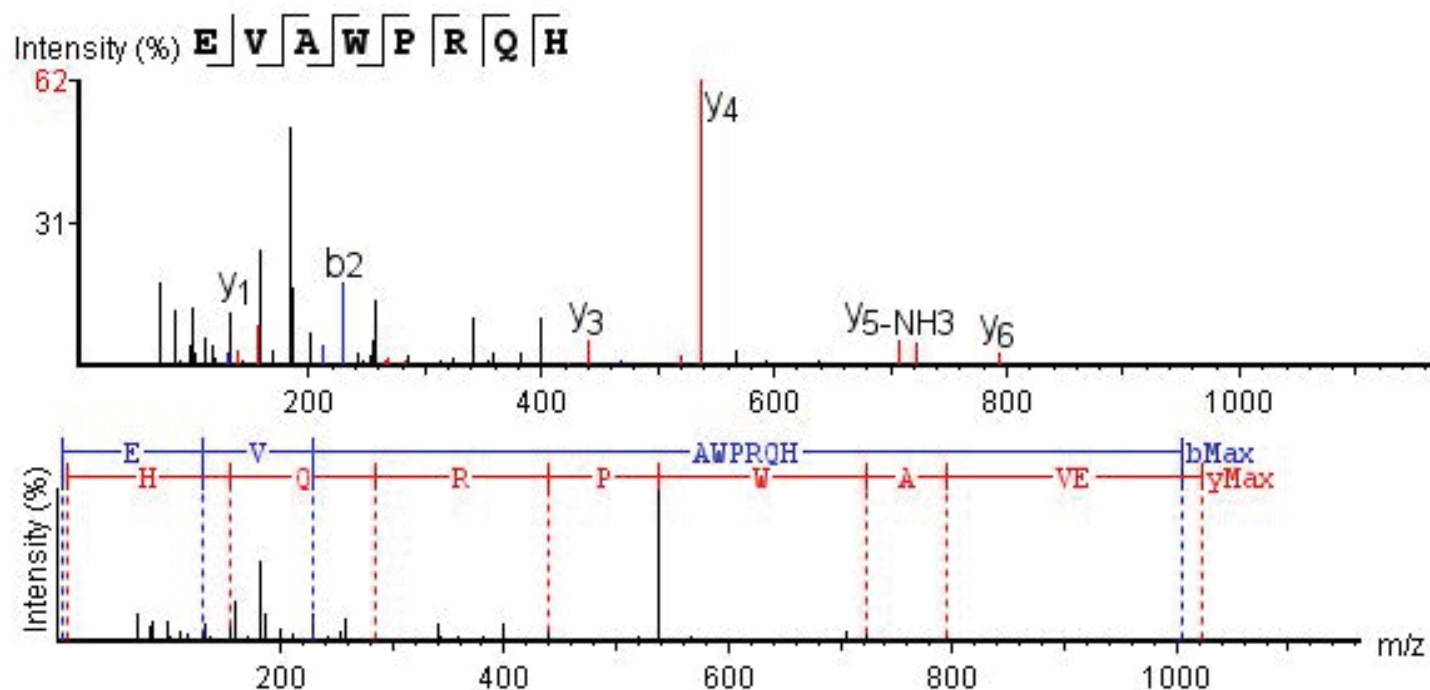
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					23
2	211.14	193.13	194.12	106.07	P	2527.29	2509.28	2510.27	1264.15	22
3	312.19	294.18	295.17	156.60	T	2430.24	2412.23	2413.22	1215.64	21
4	399.22	381.21	382.20	200.10	S	2329.20	2311.19	2312.17	1165.10	20
5	512.31	494.30	495.28	256.65	L	2242.16	2224.15	2225.14	1121.58	19
6	625.39	607.38	608.37	313.20	L	2129.08	2111.08	2112.05	1065.04	18
7	754.44	736.42	737.41	377.72	E	2015.99	1997.98	1998.97	1008.50	17
8	869.46	851.45	852.43	435.23	D	1886.95	1868.93	1869.93	943.98	16
9	1000.49	982.49	983.48	500.75	M	1771.93	1753.90	1754.90	886.46	15
10	1128.60	1110.59	1111.57	564.80	K	1640.88	1622.88	1623.86	820.94	14
11	1243.62	1225.61	1226.60	622.31	D	1512.79	1494.78	1495.76	756.90	13
12	1314.66	1296.65	1297.61	657.83	A	1397.76	1379.75	1380.74	699.38	12
13	1442.72	1424.71	1425.69	721.86	Q	1326.72	1308.72	1309.70	663.86	11
14	1589.79	1571.78	1572.76	795.39	F	1198.67	1180.65	1181.64	599.83	10
15	1726.85	1708.84	1709.82	863.92	H	1051.60	1033.59	1034.57	526.30	9
16	1827.89	1809.88	1810.87	914.45	T	914.54	896.53	897.51	457.77	8
17	1924.95	1906.94	1907.92	962.97	P	813.49	795.48	796.47	407.25	7
18	2024.02	2006.01	2006.99	1012.51	V	716.44	698.43	699.41	358.72	6
19	2180.12	2162.11	2163.09	1090.56	R	617.37	599.36	600.35	309.19	5
20	2281.17	2263.15	2264.14	1141.08	T	461.27	443.25	444.24	231.14	4
21	2396.19	2378.18	2379.16	1198.60	N(+.98)	360.23	342.21	343.20	180.61	3
22	2524.29	2506.28	2507.26	1262.64	K	245.20	227.18	228.17	123.10	2
23					V(-.98)	117.10	99.09	100.08	59.05	1



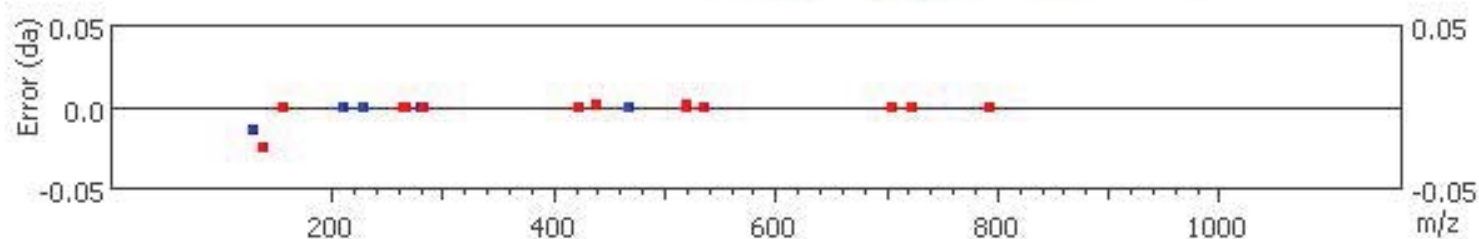


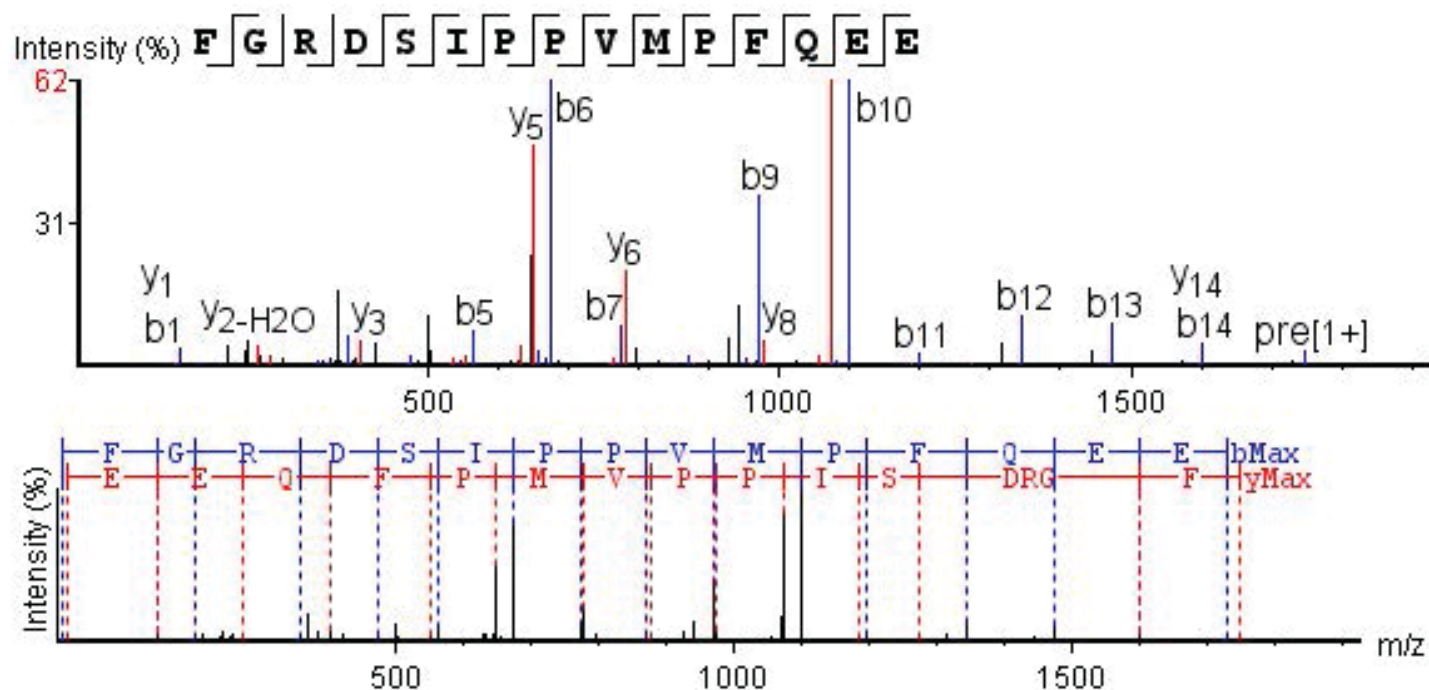
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					24
2	200.10	182.09	183.08	100.55	Q	2703.26	2685.25	2686.23	1352.13	23
3	329.15	311.14	312.12	165.07	E	2575.20	2557.18	2558.18	1288.10	22
4	476.21	458.20	459.19	238.61	F	2446.16	2428.15	2429.13	1223.58	21
5	589.30	571.28	572.27	295.11	I	2299.09	2281.08	2282.06	1150.05	20
6	736.33	718.32	719.31	368.67	M(+15.99)	2186.00	2167.99	2168.98	1093.50	19
7	883.40	865.39	866.38	442.20	F	2038.97	2020.96	2021.94	1019.98	18
8	940.43	922.41	923.40	470.71	G	1891.90	1873.89	1874.87	946.45	17
9	1054.47	1036.46	1037.44	527.73	N	1834.88	1816.87	1817.85	917.94	16
10	1182.53	1164.51	1165.50	591.76	Q	1720.84	1702.83	1703.81	860.92	15
11	1310.58	1292.57	1293.56	655.79	Q	1592.78	1574.77	1575.75	796.89	14
12	1424.63	1406.62	1407.60	712.81	N	1464.72	1446.71	1447.72	732.86	13
13	1580.73	1562.72	1563.70	790.86	R	1350.68	1332.67	1333.65	675.84	12
14	1651.77	1633.75	1634.74	826.38	A	1194.57	1176.55	1177.55	597.79	11
15	1764.85	1746.84	1747.82	882.92	I	1123.54	1105.53	1106.51	562.27	10
16	1878.89	1860.88	1861.87	939.95	N	1010.45	992.44	993.42	505.73	9
17	1992.93	1974.92	1975.91	996.97	N	896.41	878.40	879.38	448.71	8
18	2140.00	2121.99	2122.98	1070.50	F	782.37	764.36	765.34	391.68	7
19	2197.02	2179.01	2180.00	1099.01	G	635.30	617.29	618.28	318.15	6
20	2284.06	2266.05	2267.03	1142.53	S	578.28	560.27	561.25	289.64	5
21	2385.10	2367.09	2368.08	1193.05	T	491.24	473.24	474.22	246.12	4
22	2513.20	2495.19	2496.17	1257.10	K	390.20	372.19	373.17	195.60	3
23	2628.23	2610.22	2611.20	1314.63	N(+.98)	262.10	244.09	245.08	131.55	2
24					E(-.98)	147.08	129.07	130.05	74.04	1



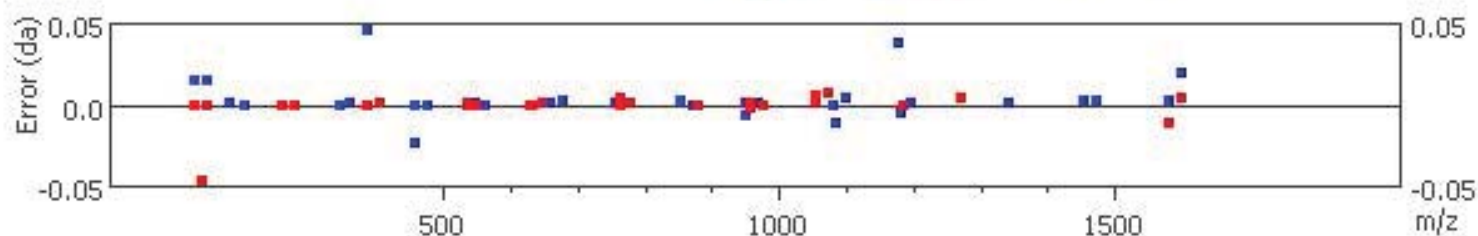


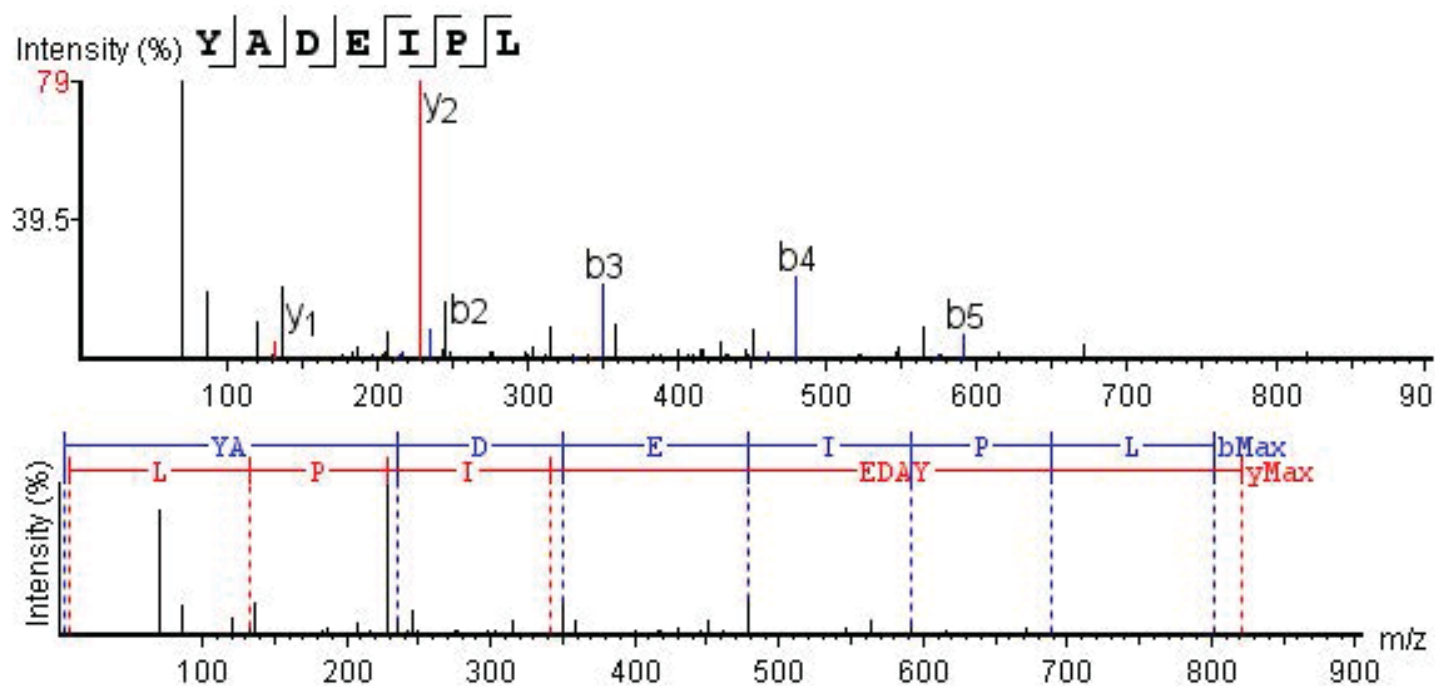
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	130.07	112.04	113.02	65.53	E					8
2	229.12	211.11	212.09	115.06	V	893.47	875.46	876.45	447.24	7
3	300.16	282.14	283.13	150.58	A	794.41	776.40	777.38	397.70	6
4	486.24	468.22	469.21	243.62	W	723.37	705.36	706.34	362.18	5
5	583.29	565.28	566.26	292.14	P	537.29	519.28	520.26	269.14	4
6	739.39	721.38	722.36	370.19	R	440.23	422.23	423.21	220.62	3
7	867.45	849.44	850.42	434.22	Q	284.14	266.12	267.11	142.57	2
8					H	156.08	138.09	139.05	78.54	1



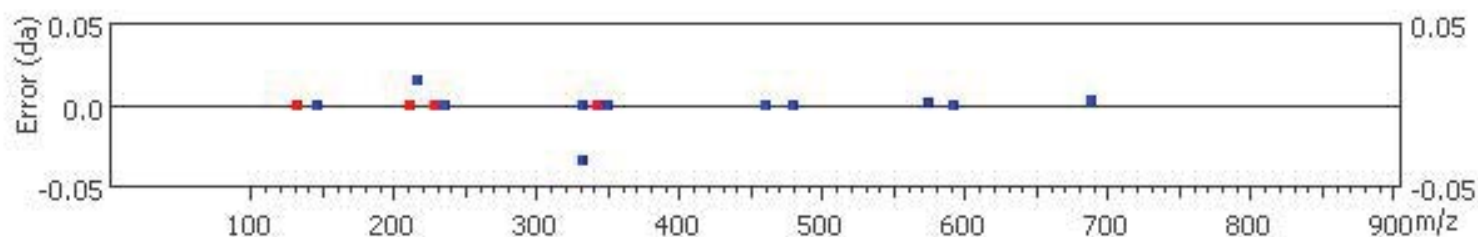


#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	148.06	130.05	131.05	74.54	F					15
2	205.10	187.09	188.07	103.05	G	1601.76	1583.76	1584.74	801.38	14
3	361.20	343.19	344.17	181.10	R	1544.74	1526.73	1527.71	772.87	13
4	476.22	458.24	459.20	238.61	D	1388.64	1370.63	1371.61	694.82	12
5	563.26	545.25	546.23	282.13	S	1273.61	1255.60	1256.59	637.31	11
6	676.34	658.33	659.31	338.67	I	1186.58	1168.57	1169.55	593.79	10
7	773.39	755.38	756.37	387.15	P	1073.49	1055.48	1056.47	537.25	9
8	870.45	852.44	853.42	435.72	P	976.44	958.43	959.42	488.72	8
9	969.51	951.50	952.50	485.26	V	879.39	861.38	862.36	440.20	7
10	1100.55	1082.55	1083.54	550.78	M	780.32	762.31	763.30	390.66	6
11	1197.61	1179.56	1180.59	599.30	P	649.28	631.27	632.25	325.14	5
12	1344.67	1326.67	1327.65	672.84	F	552.23	534.22	535.20	276.61	4
13	1472.73	1454.72	1455.71	736.87	Q	405.16	387.15	388.13	203.08	3
14	1601.76	1583.76	1584.75	801.39	E	277.10	259.09	260.08	139.10	2
15					E	148.06	130.05	131.03	74.53	1

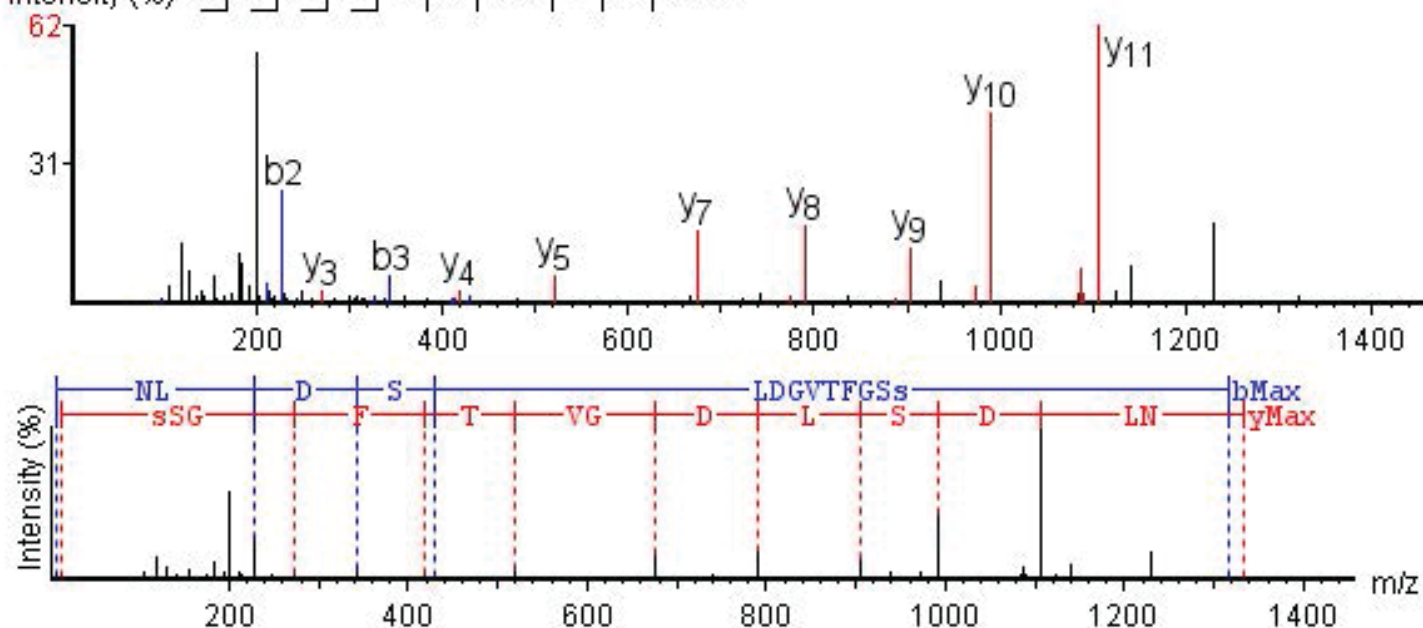




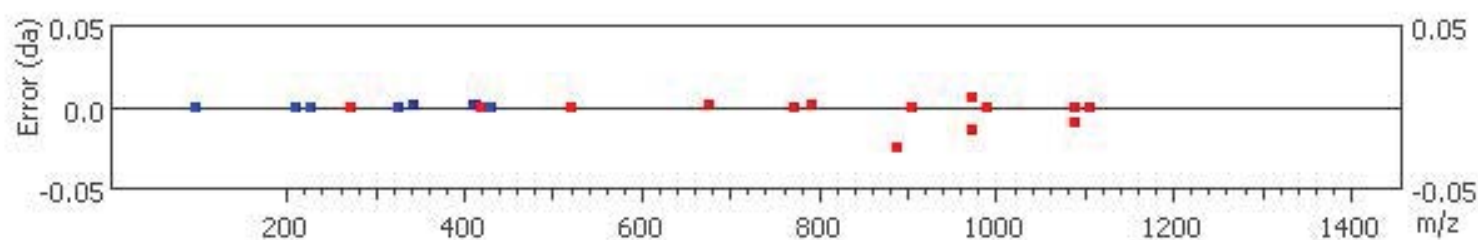
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	164.07	146.06	147.04	82.54	Y					7
2	235.11	217.08	218.08	118.05	A	657.35	639.33	640.32	329.17	6
3	350.13	332.16	333.11	175.57	D	586.31	568.30	569.28	293.65	5
4	479.18	461.17	462.15	240.09	E	471.28	453.27	454.25	236.14	4
5	592.26	574.25	575.23	296.63	I	342.24	324.23	325.21	171.62	3
6	689.31	671.30	672.29	345.16	P	229.15	211.14	212.13	115.08	2
7					L	132.10	114.09	115.07	66.55	1

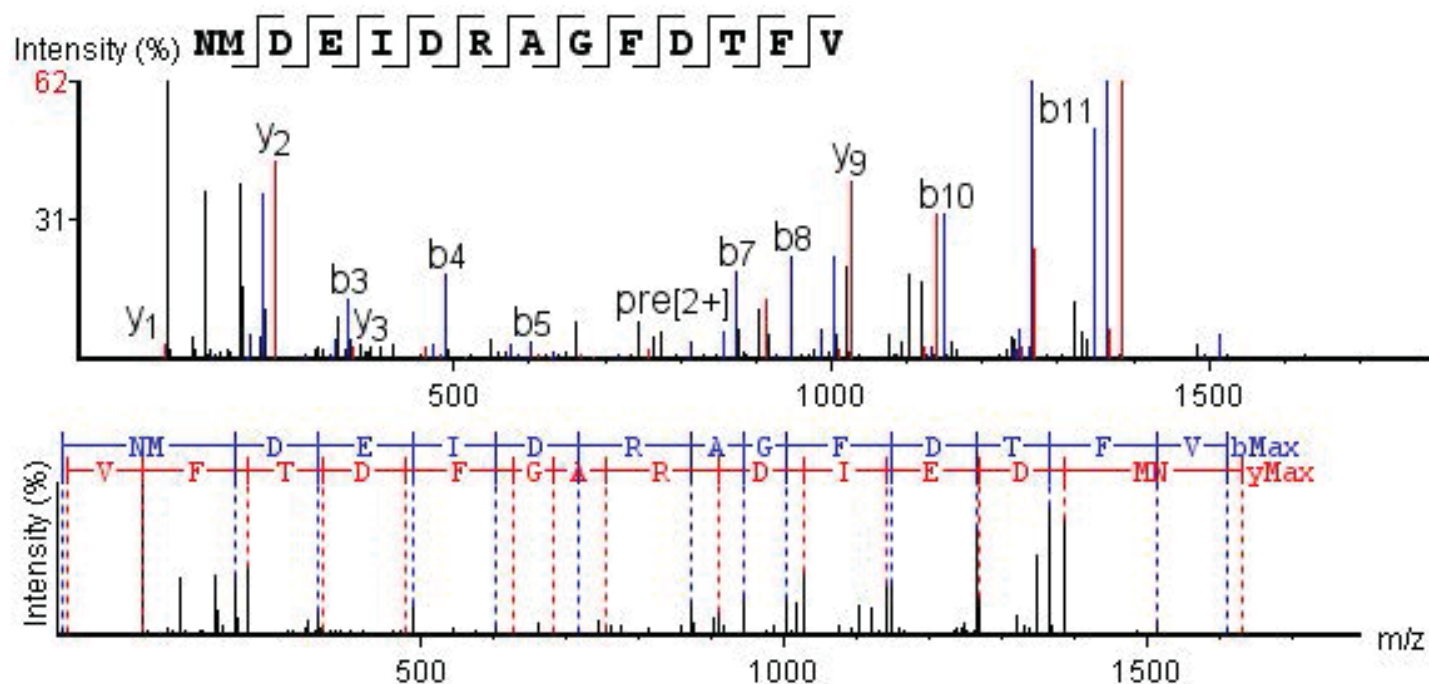


Intensity (%) **N L D S L D G V T F G S s**

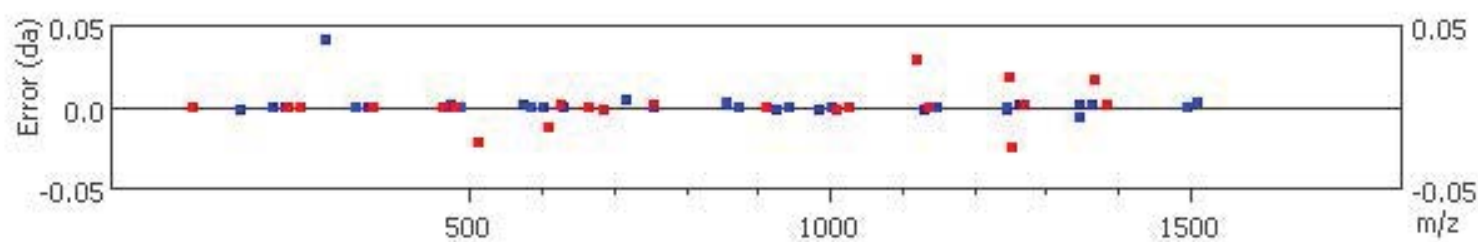


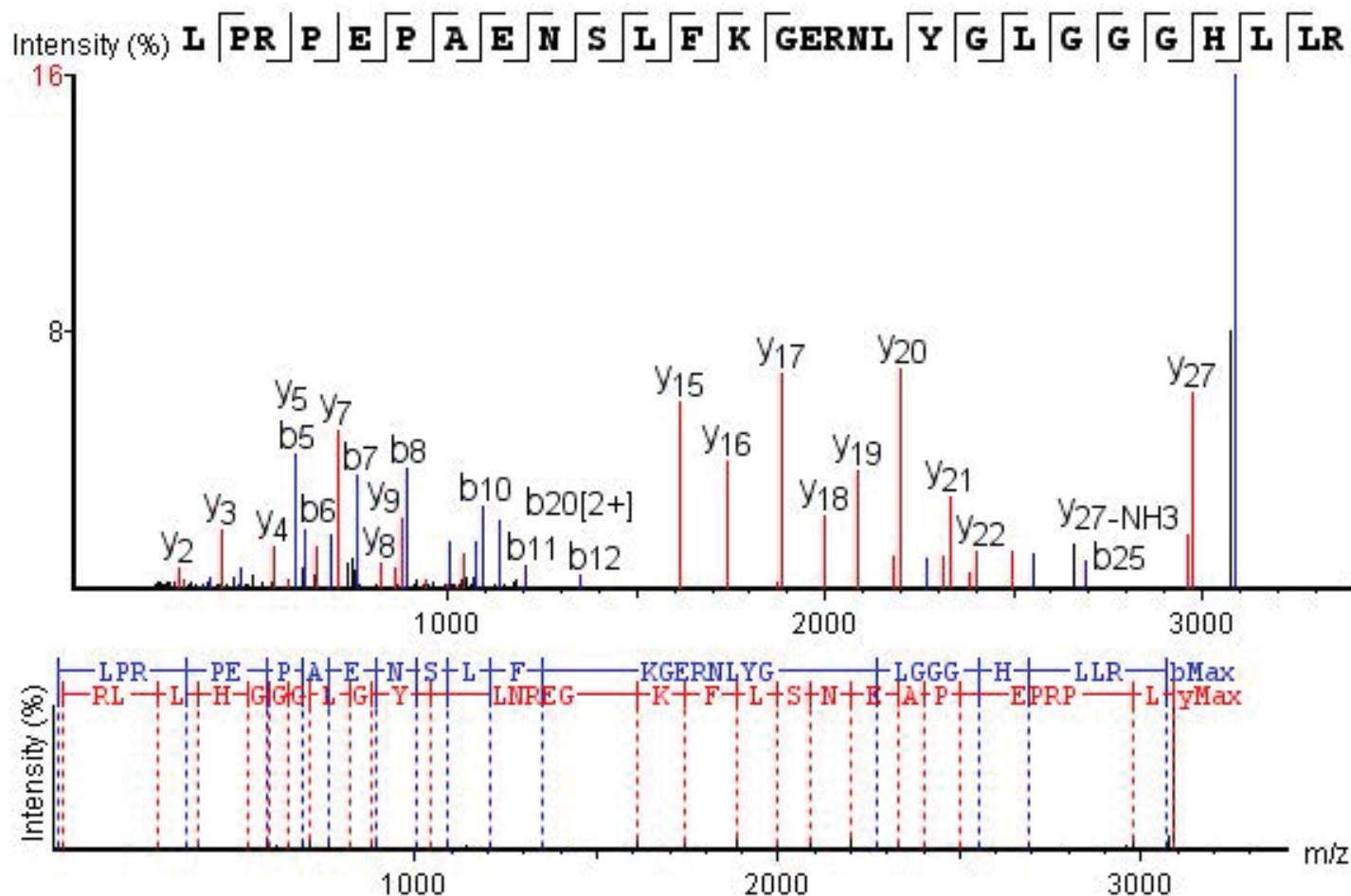
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					13
2	228.13	210.12	211.11	114.57	L	1219.55	1201.53	1202.52	610.27	12
3	343.16	325.15	326.13	172.08	D	1106.46	1088.45	1089.44	553.73	11
4	430.19	412.18	413.16	215.60	S	991.43	973.42	974.42	496.22	10
5	543.28	525.27	526.25	272.14	L	904.40	886.39	887.40	452.70	9
6	658.30	640.29	641.28	329.65	D	791.32	773.31	774.29	396.16	8
7	715.33	697.32	698.30	358.16	G	676.29	658.28	659.26	338.65	7
8	814.39	796.38	797.37	407.70	V	619.27	601.26	602.24	310.13	6
9	915.44	897.43	898.42	458.22	T	520.20	502.19	503.17	260.60	5
10	1062.51	1044.50	1045.48	531.76	F	419.15	401.14	402.13	210.08	4
11	1119.53	1101.52	1102.51	560.27	G	272.08	254.07	255.06	136.54	3
12	1206.56	1188.55	1189.54	603.78	S	215.06	197.05	198.04	108.03	2
13					S(+21.98)	128.03	110.02	111.00	64.52	1



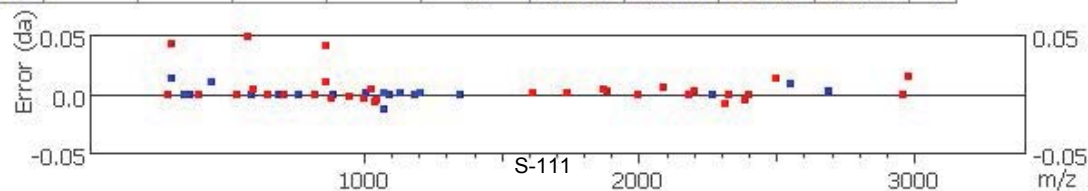


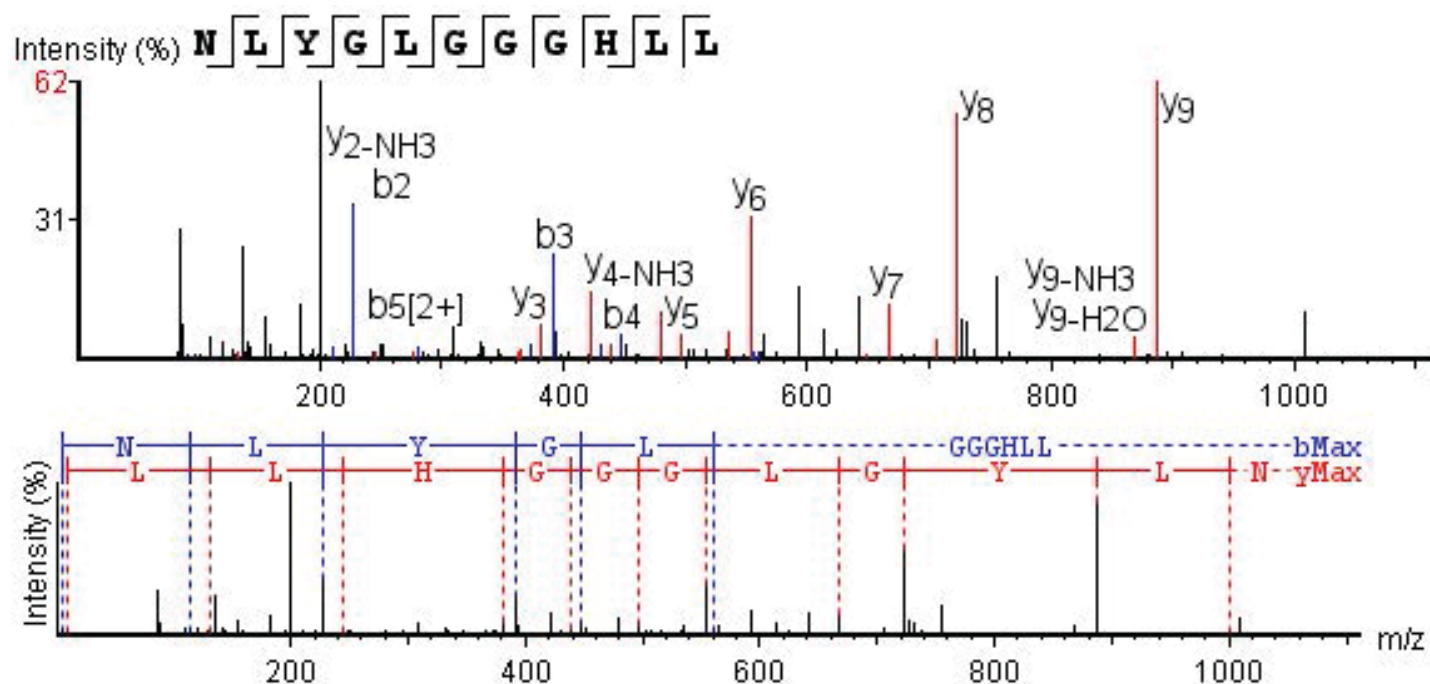
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					14
2	246.09	228.08	229.06	123.55	M	1515.68	1497.67	1498.65	758.34	13
3	361.12	343.11	344.09	181.06	D	1384.64	1366.63	1367.59	692.82	12
4	490.16	472.15	473.13	245.58	E	1269.61	1251.58	1252.61	635.31	11
5	603.24	585.23	586.22	302.08	I	1140.57	1122.53	1123.54	570.78	10
6	718.27	700.26	701.24	359.64	D	1027.48	1009.48	1010.46	514.26	9
7	874.37	856.36	857.34	437.69	R	912.46	894.45	895.43	456.73	8
8	945.41	927.40	928.39	473.20	A	756.35	738.35	739.33	378.68	7
9	1002.43	984.42	985.41	501.72	G	685.32	667.31	668.29	343.16	6
10	1149.50	1131.49	1132.47	575.25	F	628.30	610.29	611.28	314.65	5
11	1264.52	1246.52	1247.50	632.76	D	481.23	463.22	464.20	241.11	4
12	1365.57	1347.56	1348.55	683.29	T	366.20	348.19	349.18	183.60	3
13	1512.64	1494.63	1495.61	756.82	F	265.15	247.14	248.13	133.08	2
14					V	118.08	100.08	101.06	59.54	1



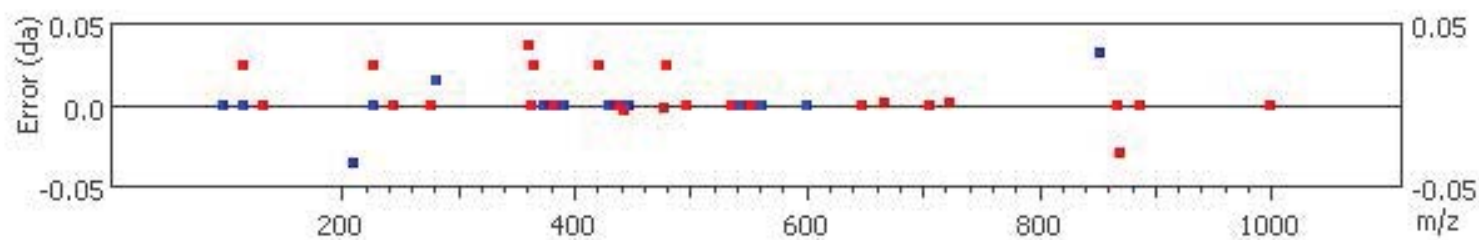


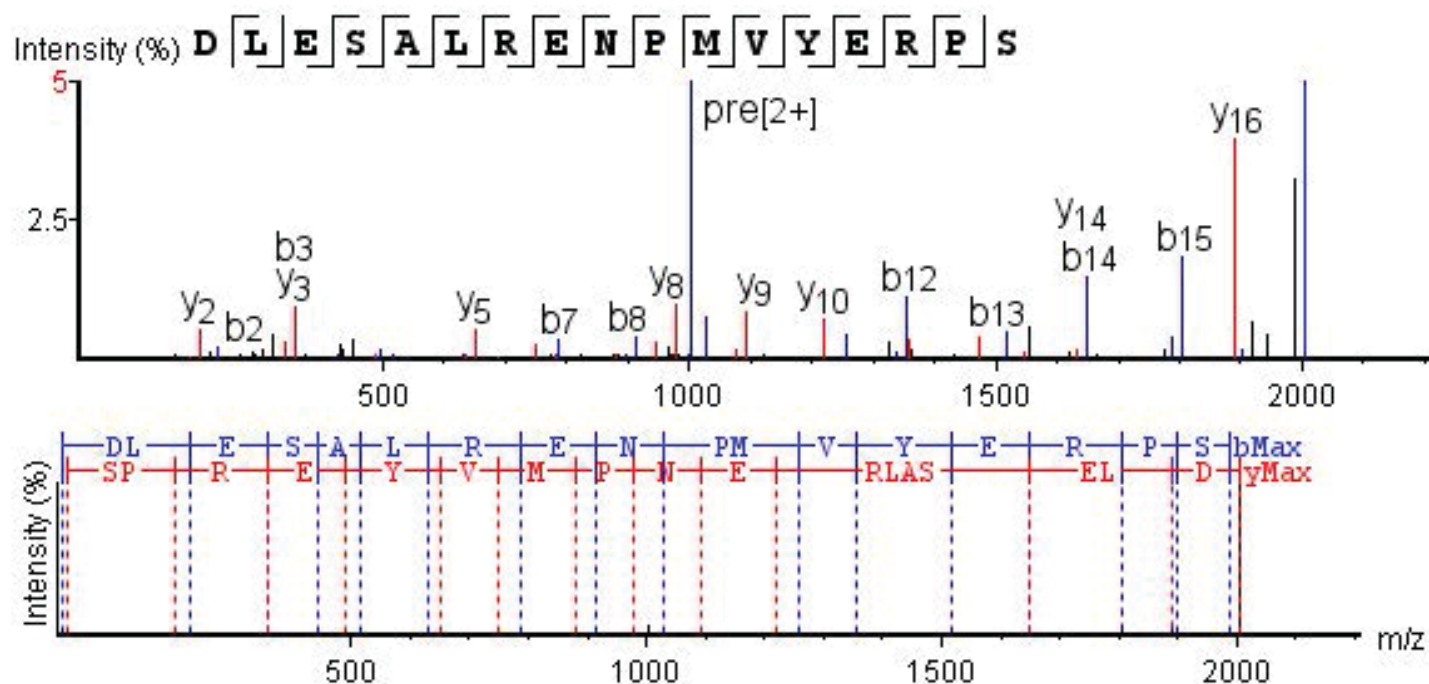
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					28
2	211.14	193.13	194.12	106.07	P	2977.56	2959.56	2960.55	1489.29	27
3	367.24	349.23	350.22	184.12	R	2880.52	2862.51	2863.50	1440.76	26
4	464.30	446.29	447.26	232.65	P	2724.42	2706.41	2707.39	1362.71	25
5	593.34	575.33	576.31	297.16	E	2627.37	2609.36	2610.34	1314.18	24
6	690.40	672.38	673.37	345.70	P	2498.31	2480.32	2481.30	1249.66	23
7	761.43	743.42	744.40	381.22	A	2401.27	2383.27	2384.25	1201.14	22
8	890.47	872.46	873.45	445.74	E	2330.24	2312.23	2313.22	1165.62	21
9	1004.51	986.51	987.49	502.76	N	2201.19	2183.18	2184.17	1101.10	20
10	1091.55	1073.54	1074.53	546.27	S	2087.14	2069.14	2070.12	1044.08	19
11	1204.63	1186.62	1187.61	602.82	L	2000.12	1982.11	1983.09	1000.56	18
12	1351.70	1333.69	1334.67	676.35	F	1887.03	1869.02	1870.00	944.02	17
13	1479.80	1461.79	1462.77	740.40	K	1739.96	1721.96	1722.94	870.48	16
14	1536.82	1518.81	1519.79	768.91	G	1611.87	1593.86	1594.84	806.44	15
15	1665.86	1647.85	1648.83	833.43	E	1554.85	1536.84	1537.82	777.92	14
16	1821.96	1803.95	1804.93	911.48	R	1425.81	1407.80	1408.78	713.40	13
17	1936.00	1917.99	1918.98	968.50	N	1269.71	1251.70	1252.68	635.35	12
18	2049.09	2031.08	2032.06	1025.04	L	1155.66	1137.65	1138.64	578.33	11
19	2212.15	2194.14	2195.12	1106.58	Y	1042.59	1024.57	1025.55	521.79	10
20	2269.17	2251.16	2252.15	1135.08	G	879.52	861.46	862.48	440.26	9
21	2382.26	2364.25	2365.23	1191.63	L	822.50	804.48	805.47	411.75	8
22	2439.28	2421.27	2422.25	1220.14	G	709.41	691.40	692.38	355.21	7
23	2496.30	2478.29	2479.27	1248.65	G	652.39	634.38	635.36	326.69	6
24	2553.31	2535.31	2536.29	1277.16	G	595.36	577.31	578.34	298.14	5
25	2690.38	2672.37	2673.35	1345.69	H	538.35	520.34	521.32	269.67	4
26	2803.46	2785.45	2786.44	1402.23	L	401.29	383.28	384.26	201.14	3
27	2916.55	2898.54	2899.52	1458.77	L	288.20	270.19	271.18	144.60	2
28					R	175.12	157.11	158.09	88.06	1



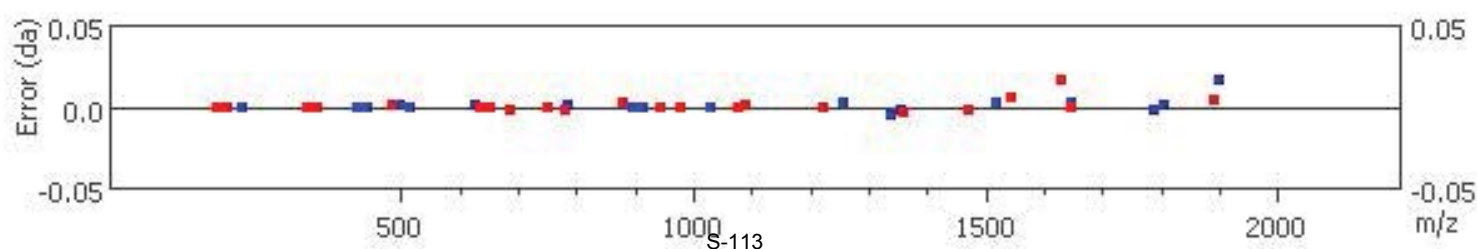


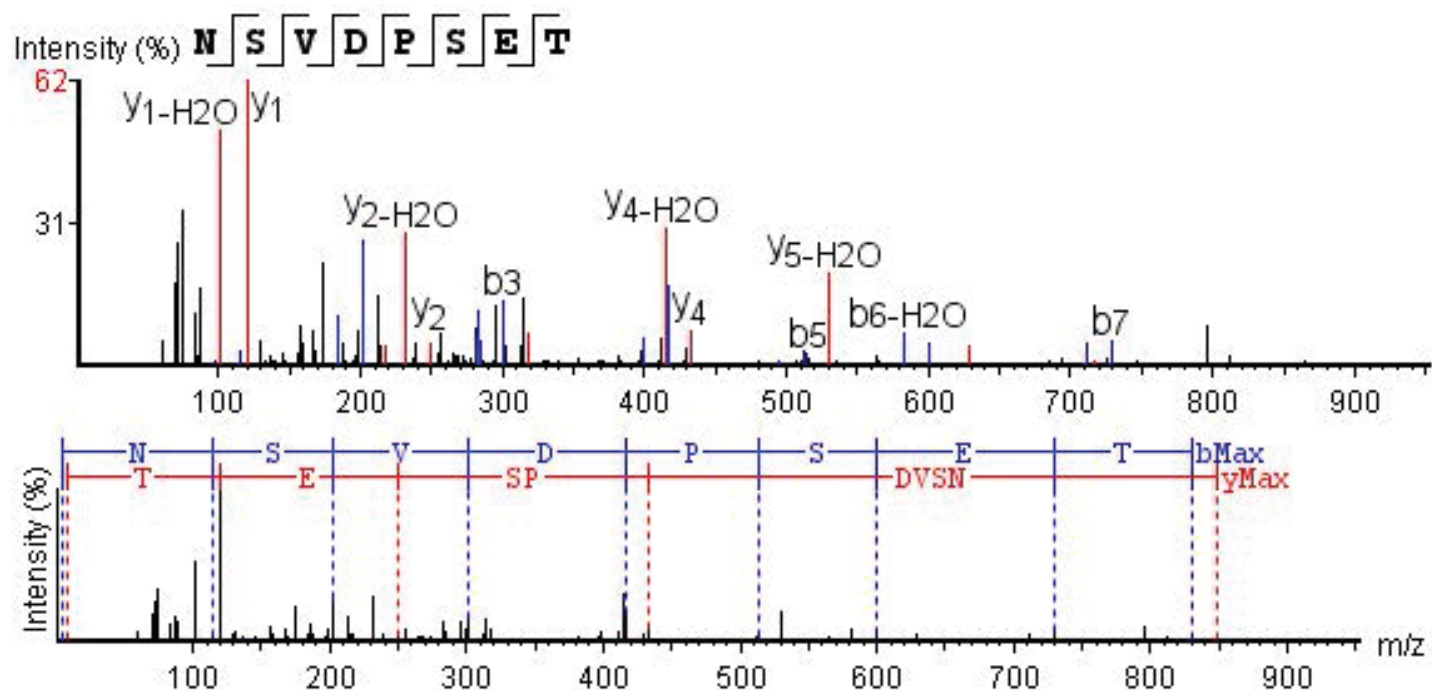
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					11
2	228.13	210.12	211.14	114.57	L	999.56	981.55	982.54	500.28	10
3	391.20	373.19	374.17	196.10	Y	886.48	868.47	869.48	443.74	9
4	448.22	430.21	431.19	224.61	G	723.41	705.40	706.39	362.17	8
5	561.30	543.29	544.28	281.13	L	666.39	648.38	649.37	333.70	7
6	618.33	600.31	601.30	309.66	G	553.31	535.30	536.28	277.15	6
7	675.35	657.34	658.32	338.17	G	496.29	478.28	479.24	248.64	5
8	732.37	714.36	715.34	366.68	G	439.27	421.26	422.21	220.13	4
9	869.43	851.42	852.37	435.21	H	382.24	364.24	365.19	191.62	3
10	982.51	964.50	965.48	491.76	L	245.19	227.18	228.13	123.09	2
11					L	132.10	114.09	115.05	66.55	1



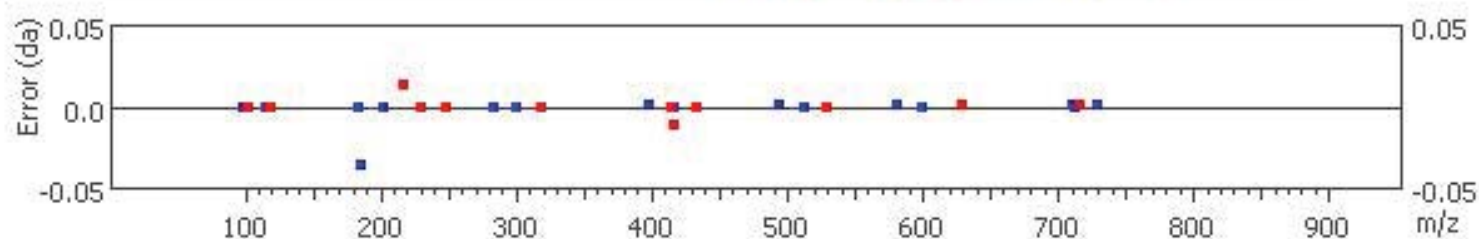


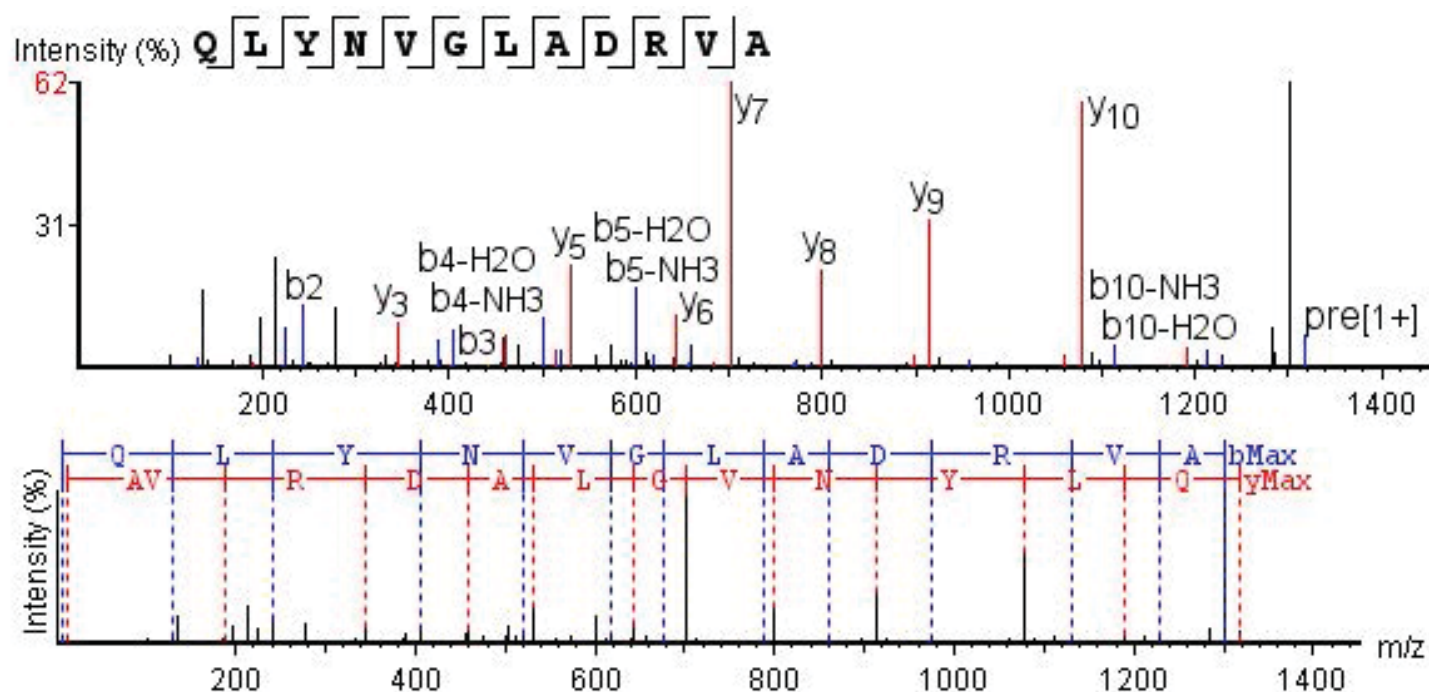
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					17
2	229.12	211.11	212.09	115.06	L	1890.93	1872.93	1873.91	945.97	16
3	358.16	340.15	341.13	179.58	E	1777.85	1759.84	1760.83	889.43	15
4	445.19	427.18	428.17	223.10	S	1648.81	1630.80	1631.77	824.91	14
5	516.23	498.22	499.20	258.62	A	1561.78	1543.77	1544.74	781.39	13
6	629.31	611.30	612.29	315.16	L	1490.74	1472.73	1473.72	745.87	12
7	785.41	767.41	768.39	393.21	R	1377.66	1359.65	1360.63	689.33	11
8	914.46	896.45	897.43	457.73	E	1221.56	1203.55	1204.53	611.28	10
9	1028.50	1010.49	1011.47	514.75	N	1092.51	1074.50	1075.49	546.76	9
10	1125.55	1107.54	1108.53	563.28	P	978.47	960.46	961.44	489.74	8
11	1256.59	1238.58	1239.57	628.80	M	881.41	863.41	864.39	441.21	7
12	1355.67	1337.65	1338.64	678.33	V	750.38	732.37	733.35	375.69	6
13	1518.72	1500.72	1501.70	759.86	Y	651.31	633.30	634.28	326.15	5
14	1647.76	1629.76	1630.74	824.38	E	488.24	470.24	471.22	244.62	4
15	1803.87	1785.86	1786.84	902.43	R	359.20	341.19	342.18	180.10	3
16	1900.91	1882.91	1883.90	950.96	P	203.10	185.09	186.08	102.05	2
17					S	106.05	88.04	89.02	53.52	1



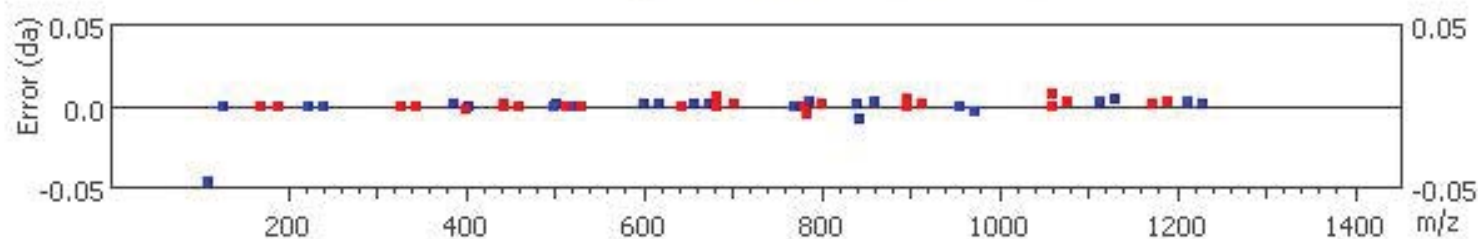


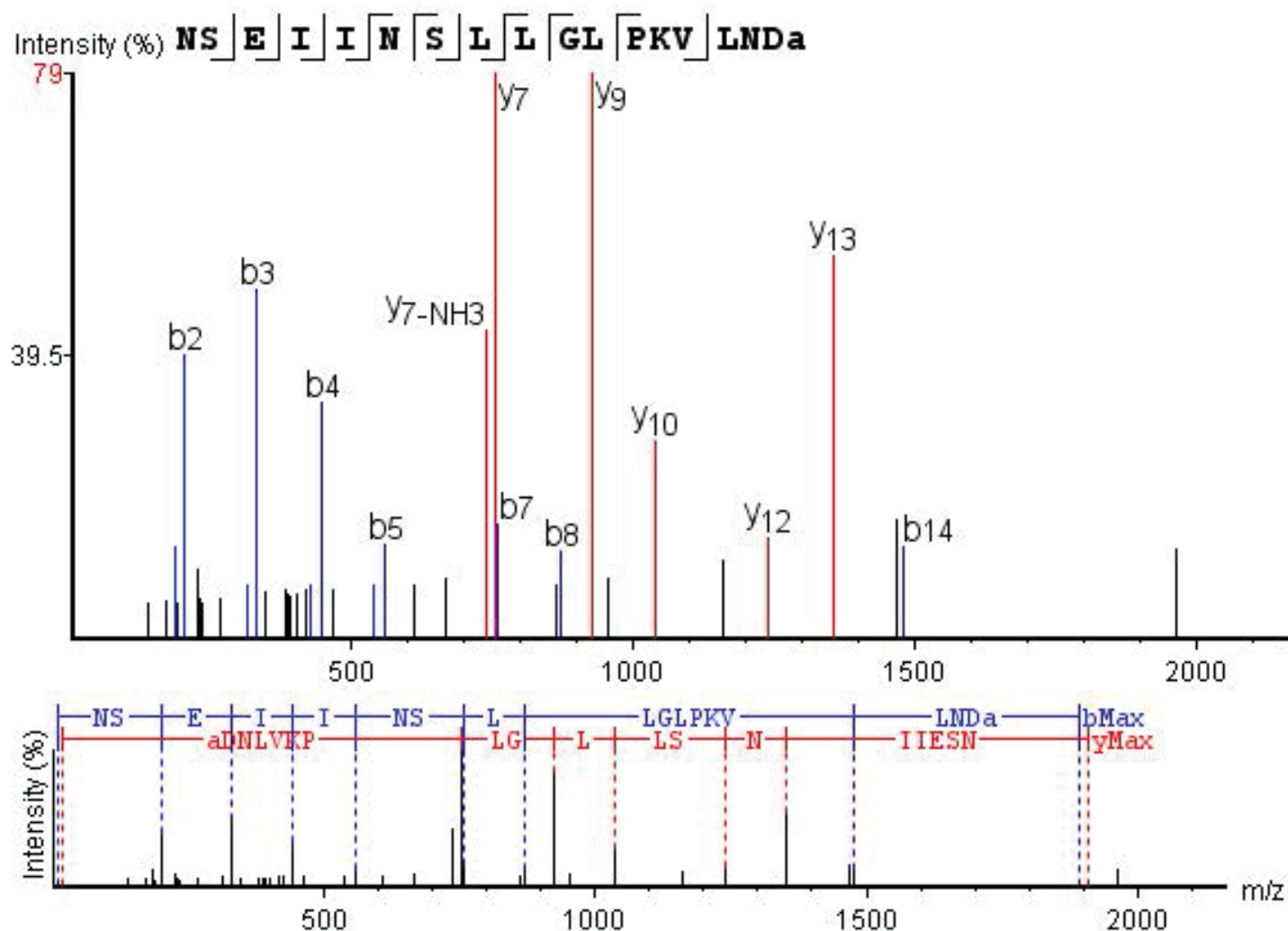
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	115.05	97.04	98.02	58.03	N					8
2	202.08	184.07	185.09	101.54	S	734.32	716.31	717.29	367.66	7
3	301.15	283.14	284.12	151.08	V	647.29	629.28	630.26	324.14	6
4	416.18	398.17	399.15	208.59	D	548.22	530.21	531.19	274.61	5
5	513.23	495.22	496.20	257.12	P	433.19	415.18	416.18	217.08	4
6	600.26	582.25	583.24	300.63	S	336.14	318.13	319.11	168.57	3
7	729.30	711.29	712.28	365.15	E	249.11	231.10	232.08	125.05	2
8					T	120.07	102.06	103.04	60.53	1



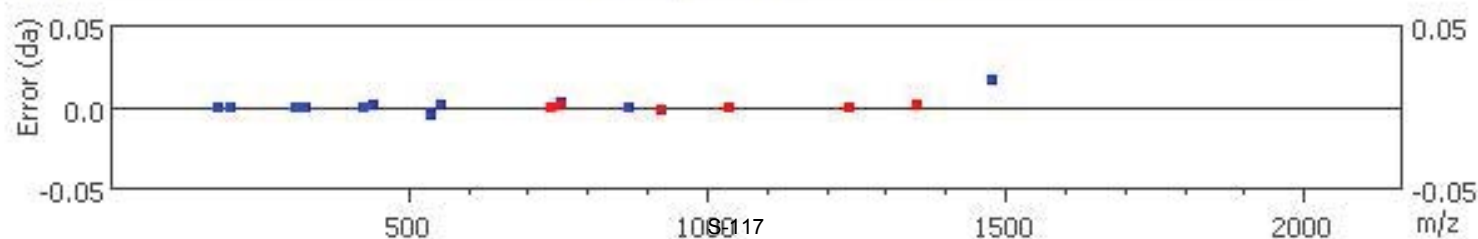


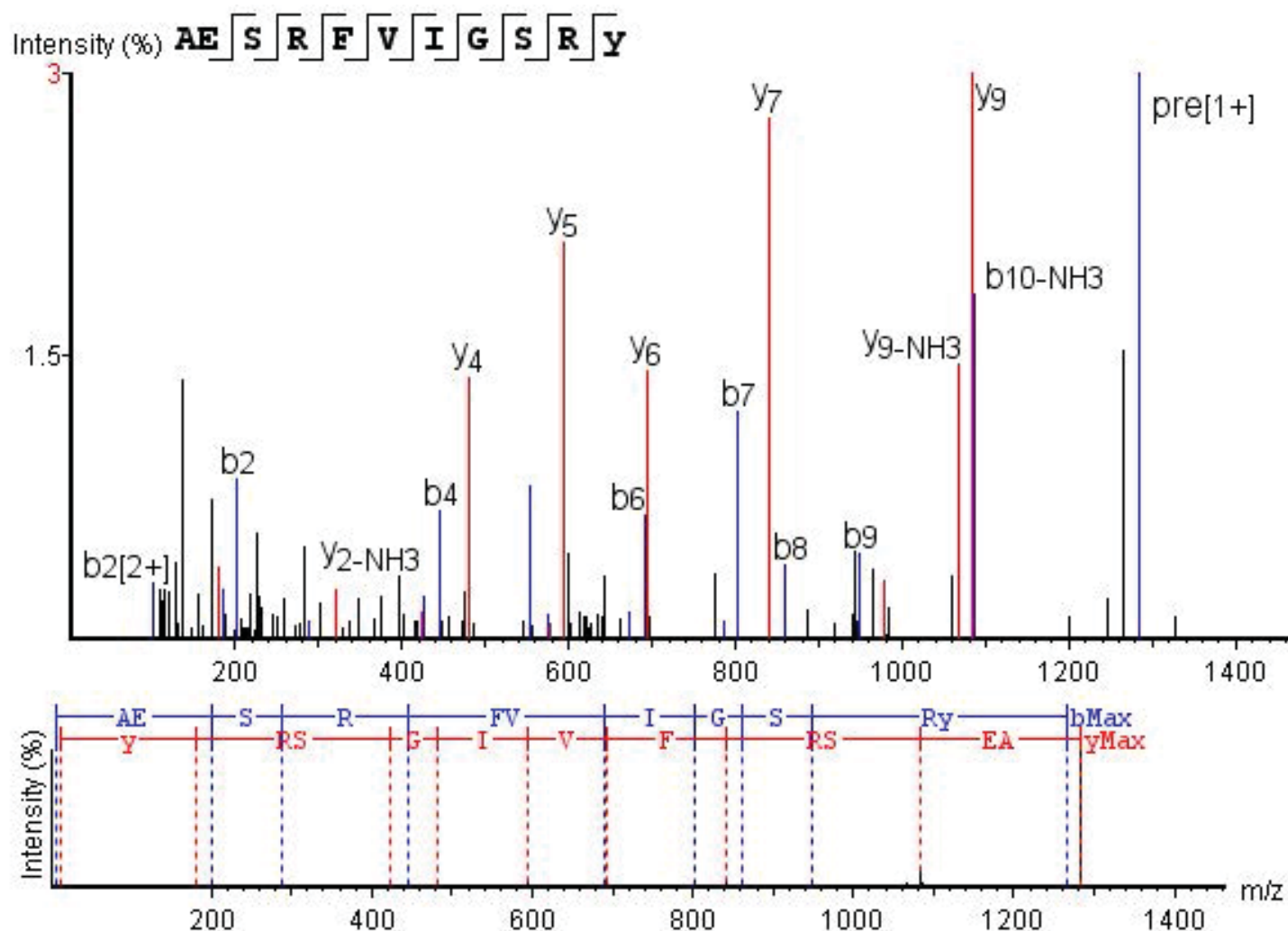
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	129.07	111.06	112.09	65.03	Q					12
2	242.15	224.14	225.12	121.58	L	1190.65	1172.64	1173.62	595.83	11
3	405.21	387.20	388.19	203.11	Y	1077.56	1059.55	1060.54	539.28	10
4	519.26	501.24	502.23	260.13	N	914.50	896.49	897.48	457.75	9
5	618.32	600.31	601.30	309.66	V	800.46	782.45	783.44	400.73	8
6	675.34	657.33	658.32	338.17	G	701.39	683.38	684.37	351.20	7
7	788.43	770.42	771.40	394.72	L	644.37	626.36	627.35	322.69	6
8	859.46	841.45	842.45	430.23	A	531.29	513.28	514.26	266.14	5
9	974.50	956.48	957.47	487.75	D	460.25	442.24	443.22	230.63	4
10	1130.59	1112.58	1113.57	565.80	R	345.22	327.21	328.20	173.11	3
11	1229.66	1211.65	1212.63	615.33	V	189.12	171.11	172.10	95.06	2
12					A	90.05	72.04	73.03	45.53	1



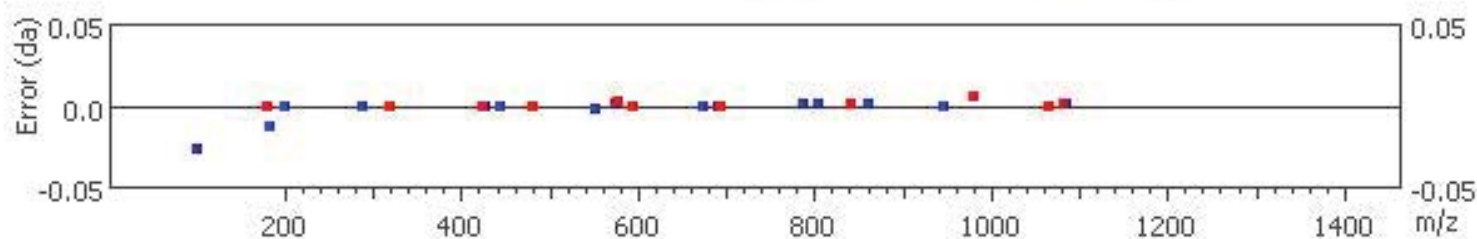


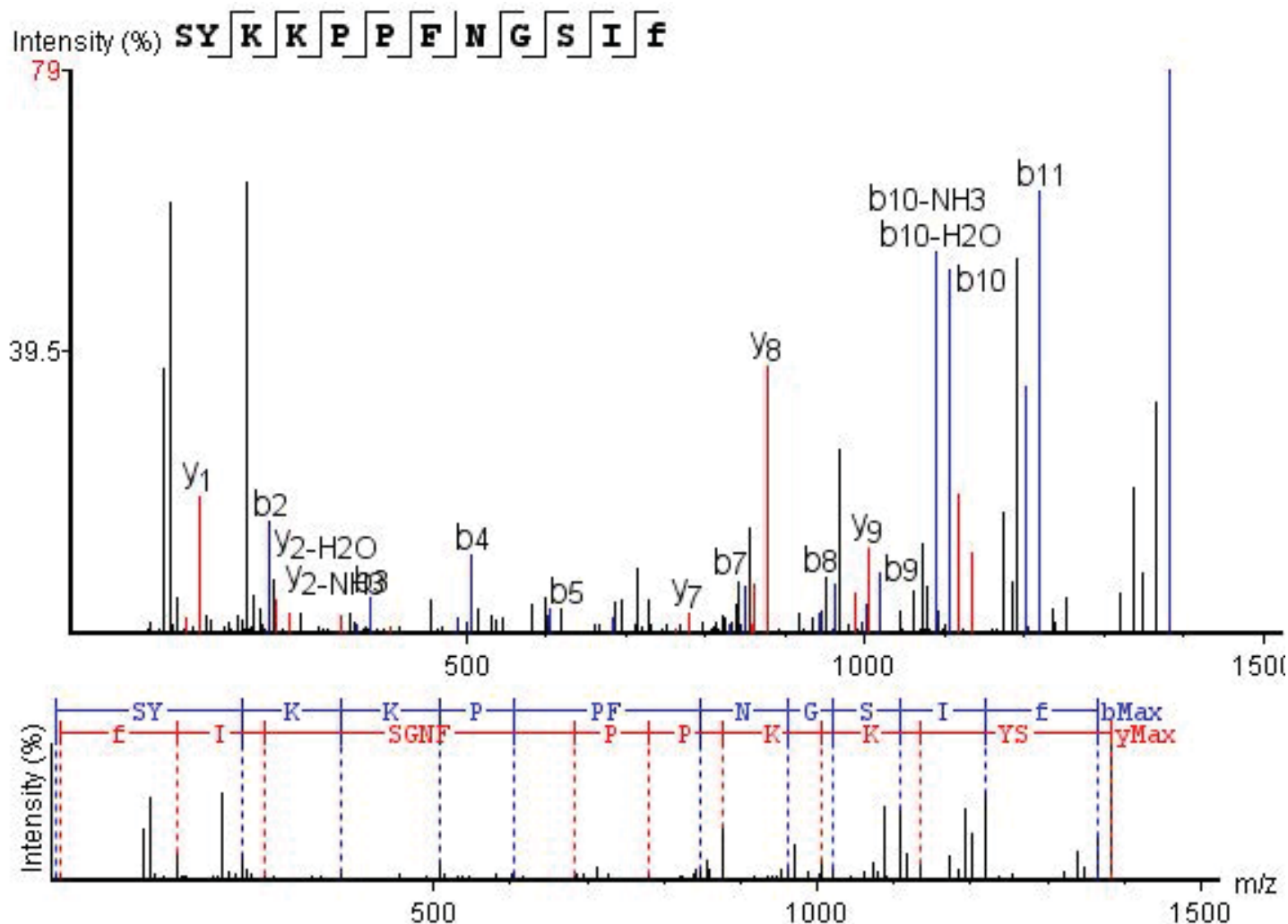
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	115.05	97.04	98.02	58.03	N					18
2	202.08	184.07	185.06	101.54	S	1795.03	1777.02	1778.01	898.02	17
3	331.12	313.11	314.10	166.06	E	1708.00	1689.99	1690.97	854.50	16
4	444.21	426.20	427.18	222.60	I	1578.96	1560.95	1561.93	789.98	15
5	557.29	539.29	540.27	279.15	I	1465.87	1447.86	1448.85	733.44	14
6	671.34	653.33	654.31	336.17	N	1352.79	1334.78	1335.76	676.89	13
7	758.36	740.36	741.34	379.68	S	1238.75	1220.74	1221.72	619.87	12
8	871.45	853.44	854.43	436.23	L	1151.71	1133.70	1134.69	576.36	11
9	984.54	966.53	967.51	492.77	L	1038.63	1020.62	1021.60	519.82	10
10	1041.56	1023.55	1024.53	521.28	G	925.55	907.54	908.52	463.27	9
11	1154.64	1136.63	1137.62	577.82	L	868.53	850.51	851.50	434.76	8
12	1251.69	1233.68	1234.67	626.35	P	755.44	737.43	738.41	378.22	7
13	1379.79	1361.78	1362.76	690.39	K	658.39	640.38	641.36	329.69	6
14	1478.84	1460.85	1461.83	739.93	V	530.29	512.28	513.27	265.65	5
15	1591.94	1573.93	1574.92	796.47	L	431.22	413.21	414.20	216.11	4
16	1705.99	1687.97	1688.96	853.49	N	318.14	300.13	301.11	159.57	3
17	1821.01	1803.00	1803.99	911.01	D	204.10	186.09	187.07	102.55	2
18					A(-98)	89.07	71.06	72.04	45.04	1



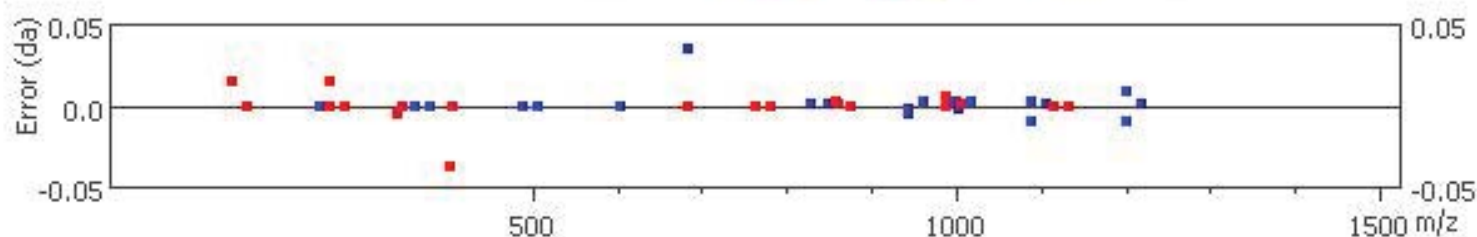


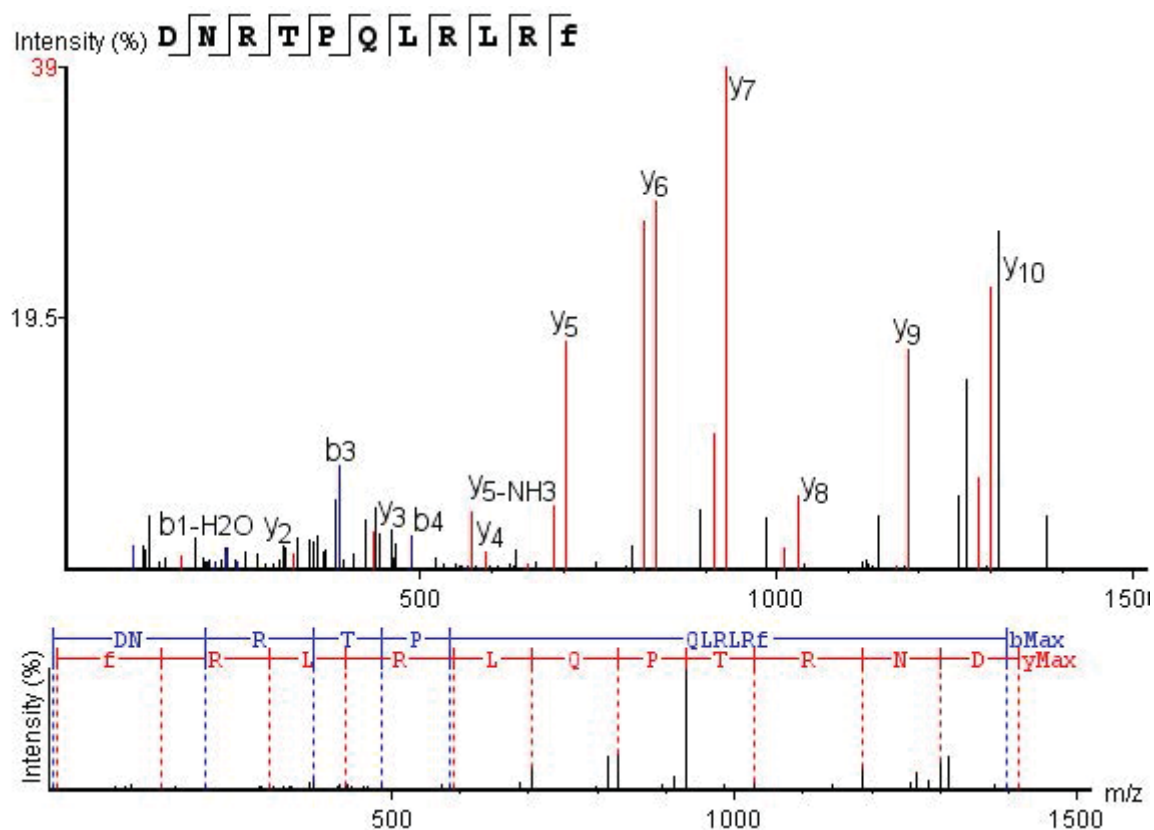
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					11
2	201.09	183.08	184.07	101.07	E	1212.65	1194.64	1195.62	606.82	10
3	288.12	270.11	271.09	144.56	S	1083.60	1065.60	1066.58	542.30	9
4	444.22	426.21	427.19	222.61	R	996.57	978.56	979.54	498.79	8
5	591.29	573.28	574.26	296.14	F	840.47	822.46	823.45	420.74	7
6	690.36	672.35	673.33	345.68	V	693.40	675.39	676.38	347.20	6
7	803.44	785.43	786.41	402.22	I	594.34	576.33	577.30	297.67	5
8	860.46	842.45	843.44	430.73	G	481.25	463.24	464.22	241.13	4
9	947.49	929.48	930.47	474.25	S	424.23	406.22	407.20	212.62	3
10	1103.60	1085.59	1086.57	552.30	R	337.20	319.19	320.17	169.10	2
11					Y(-.98)	181.10	163.09	164.07	91.05	1



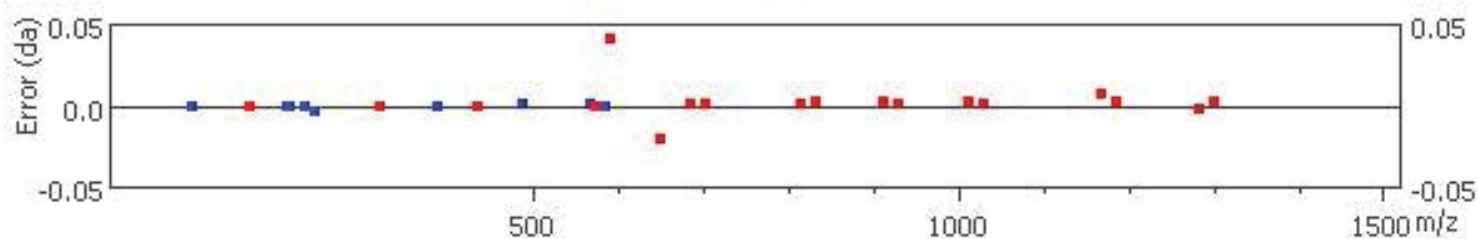


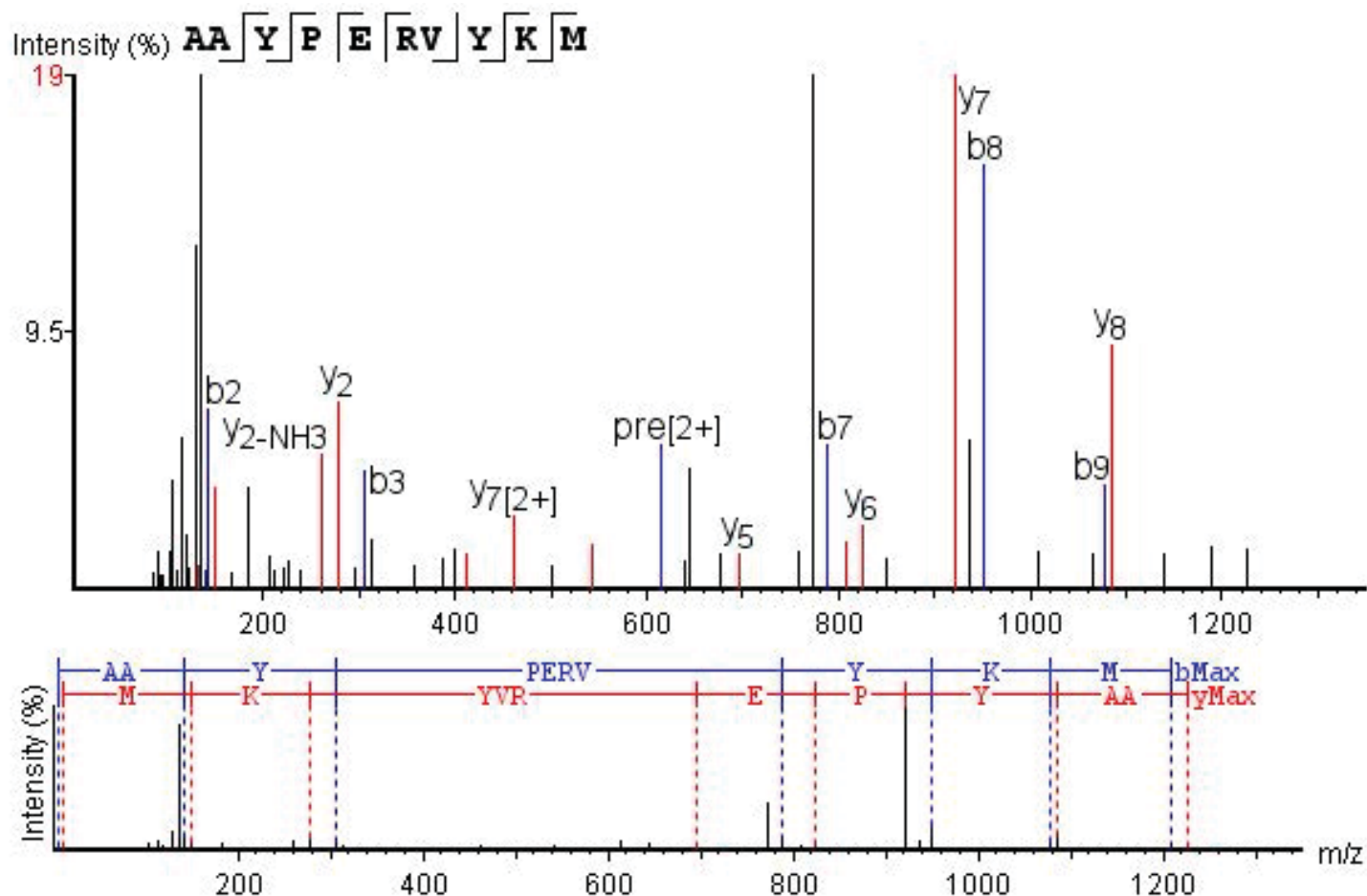
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					12
2	251.10	233.09	234.08	126.05	Y	1296.71	1278.70	1279.68	648.85	11
3	379.20	361.19	362.17	190.10	K	1133.65	1115.64	1116.62	567.32	10
4	507.29	489.28	490.27	254.15	K	1005.55	987.53	988.52	503.28	9
5	604.34	586.34	587.32	302.67	P	877.46	859.44	860.43	439.23	8
6	701.40	683.35	684.37	351.20	P	780.40	762.39	763.38	390.70	7
7	848.46	830.45	831.44	424.73	F	683.35	665.34	666.32	342.18	6
8	962.51	944.50	945.49	481.75	N	536.28	518.27	519.26	268.64	5
9	1019.53	1001.52	1002.51	510.27	G	422.24	404.27	405.21	211.62	4
10	1106.56	1088.55	1089.55	553.78	S	365.22	347.21	348.19	183.11	3
11	1219.64	1201.63	1202.63	610.32	I	278.19	260.16	261.16	139.59	2
12					F(-.98)	165.10	147.08	148.08	83.05	1



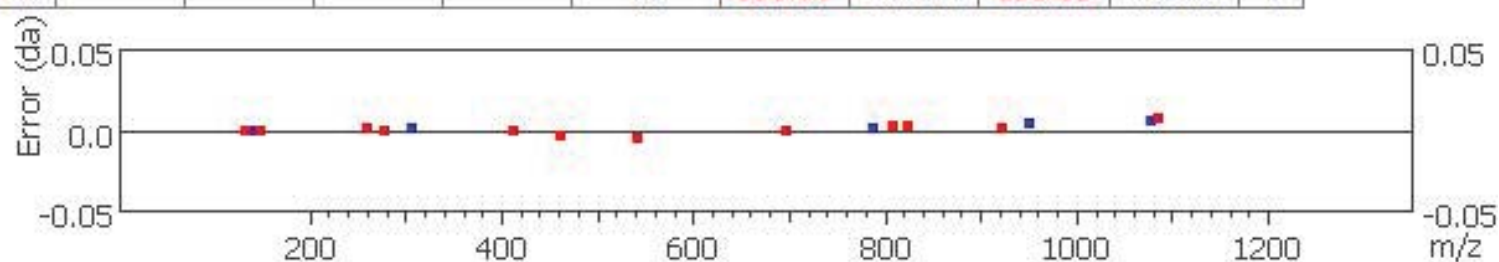


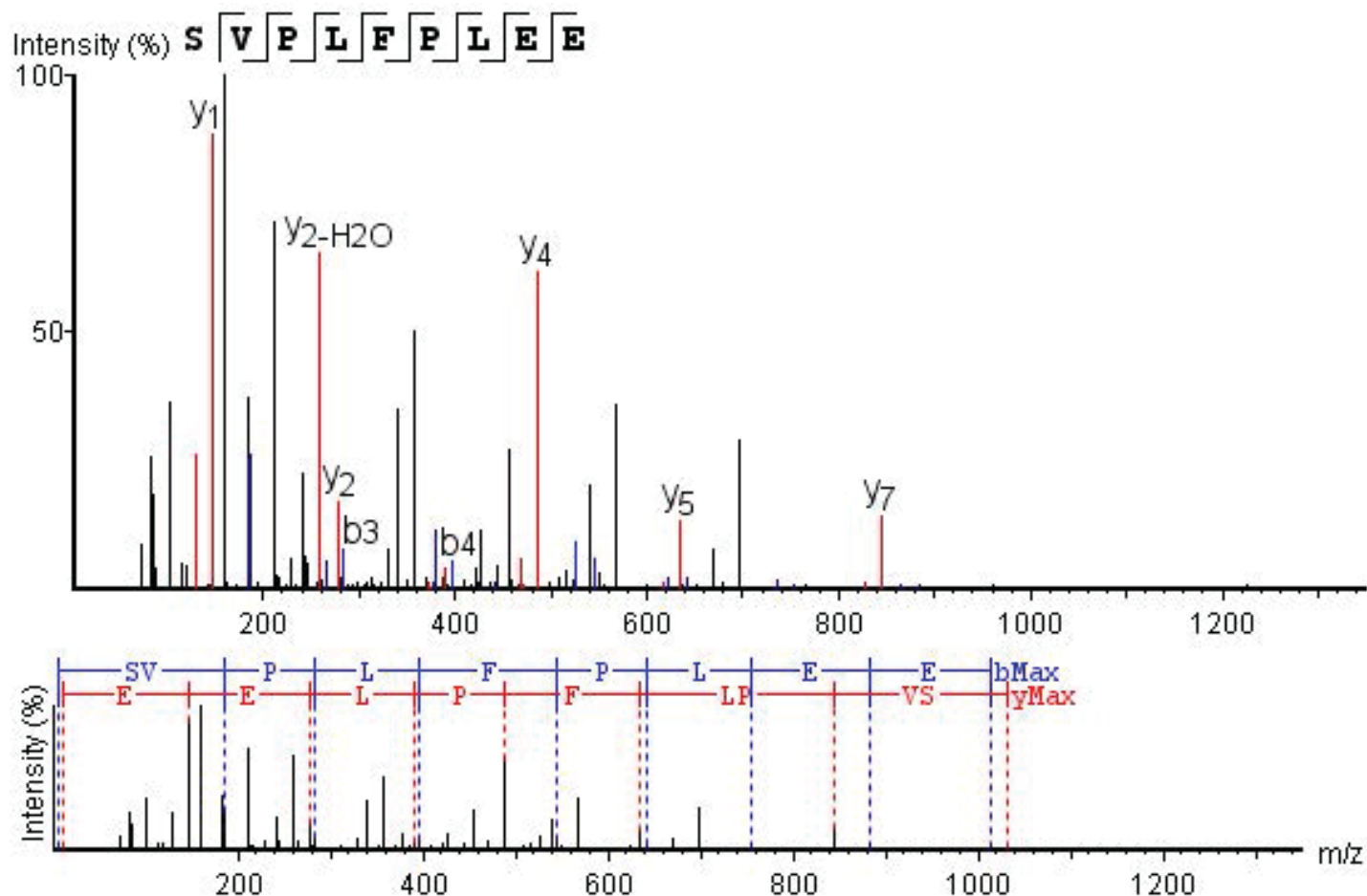
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	116.03	98.02	99.01	58.52	D					11
2	230.08	212.07	213.05	115.54	N	1299.77	1281.77	1282.75	650.41	10
3	386.18	368.17	369.15	193.59	R	1185.73	1167.72	1168.70	593.37	9
4	487.22	469.22	470.20	244.12	T	1029.63	1011.62	1012.60	515.32	8
5	584.28	566.27	567.25	292.64	P	928.58	910.57	911.55	464.79	7
6	712.34	694.33	695.31	356.67	Q	831.53	813.52	814.50	416.27	6
7	825.42	807.41	808.39	413.21	L	703.47	685.46	686.44	352.24	5
8	981.52	963.51	964.50	491.26	R	590.35	572.38	573.36	295.69	4
9	1094.61	1076.60	1077.58	547.80	L	434.29	416.28	417.26	217.64	3
10	1250.71	1232.70	1233.68	625.85	R	321.20	303.19	304.18	161.10	2
11					F(-.98)	165.10	147.09	148.08	83.05	1



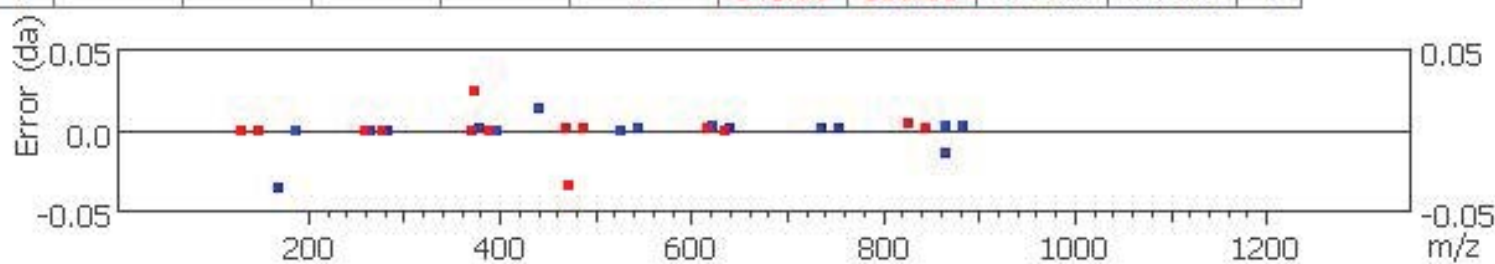


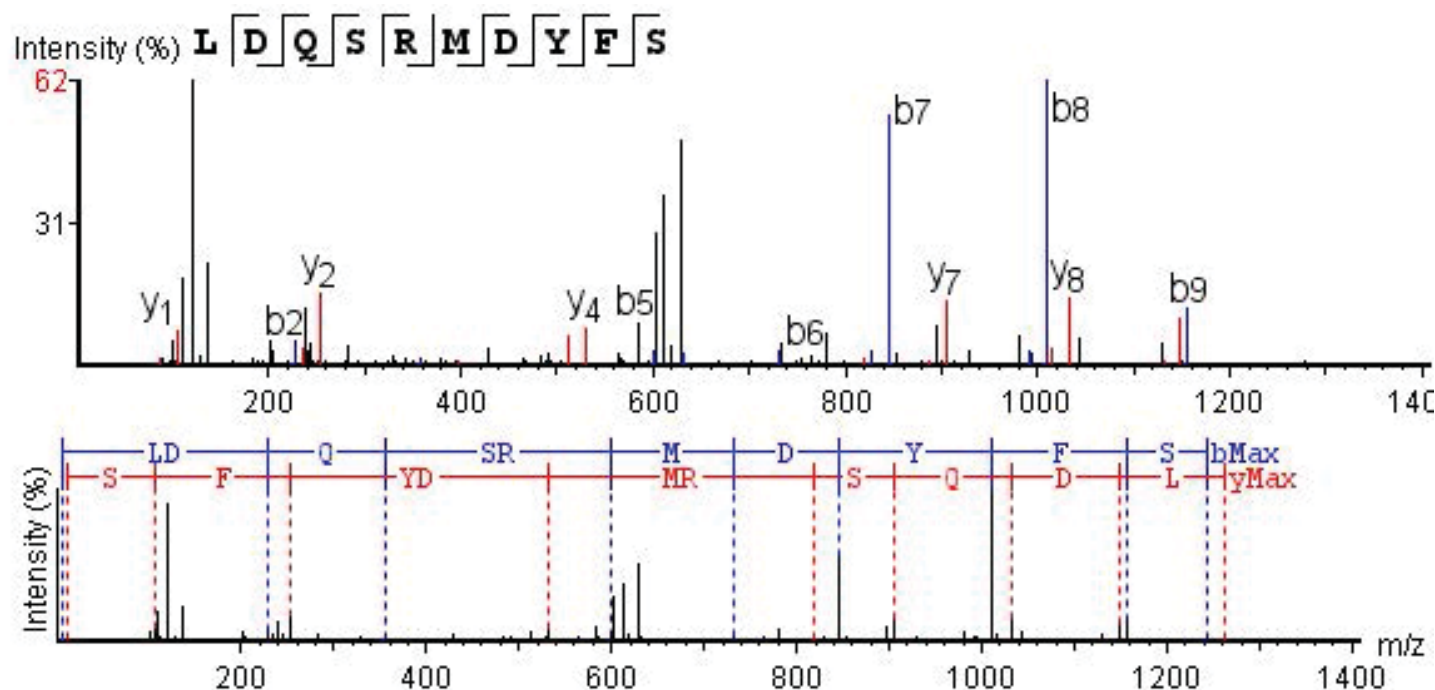
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					10
2	143.08	125.07	126.06	72.04	A	1156.58	1138.57	1139.55	578.79	9
3	306.14	288.13	289.12	153.57	Y	1085.54	1067.53	1068.52	543.28	8
4	403.20	385.19	386.17	202.10	P	922.48	904.47	905.45	461.74	7
5	532.24	514.23	515.21	266.62	E	825.42	807.42	808.40	413.21	6
6	688.34	670.33	671.31	344.67	R	696.38	678.38	679.36	348.69	5
7	787.41	769.40	770.38	394.21	V	540.29	522.27	523.26	270.64	4
8	950.47	932.46	933.45	475.74	Y	441.22	423.21	424.19	221.11	3
9	1078.56	1060.56	1061.54	539.78	K	278.15	260.14	261.12	139.58	2
10					M	150.06	132.05	133.03	75.53	1



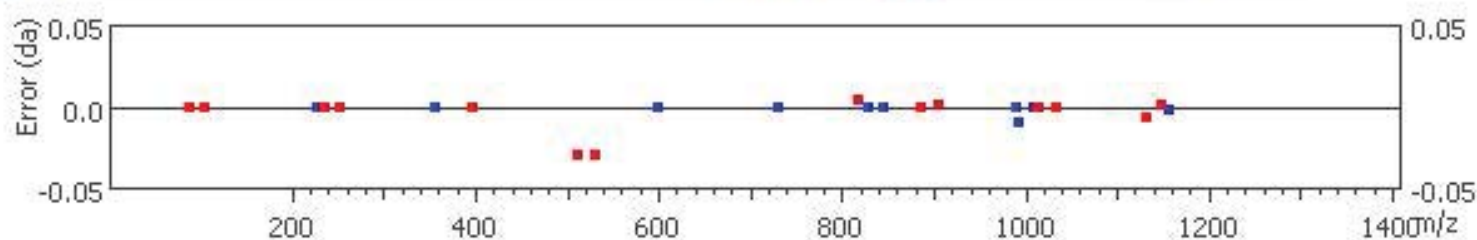


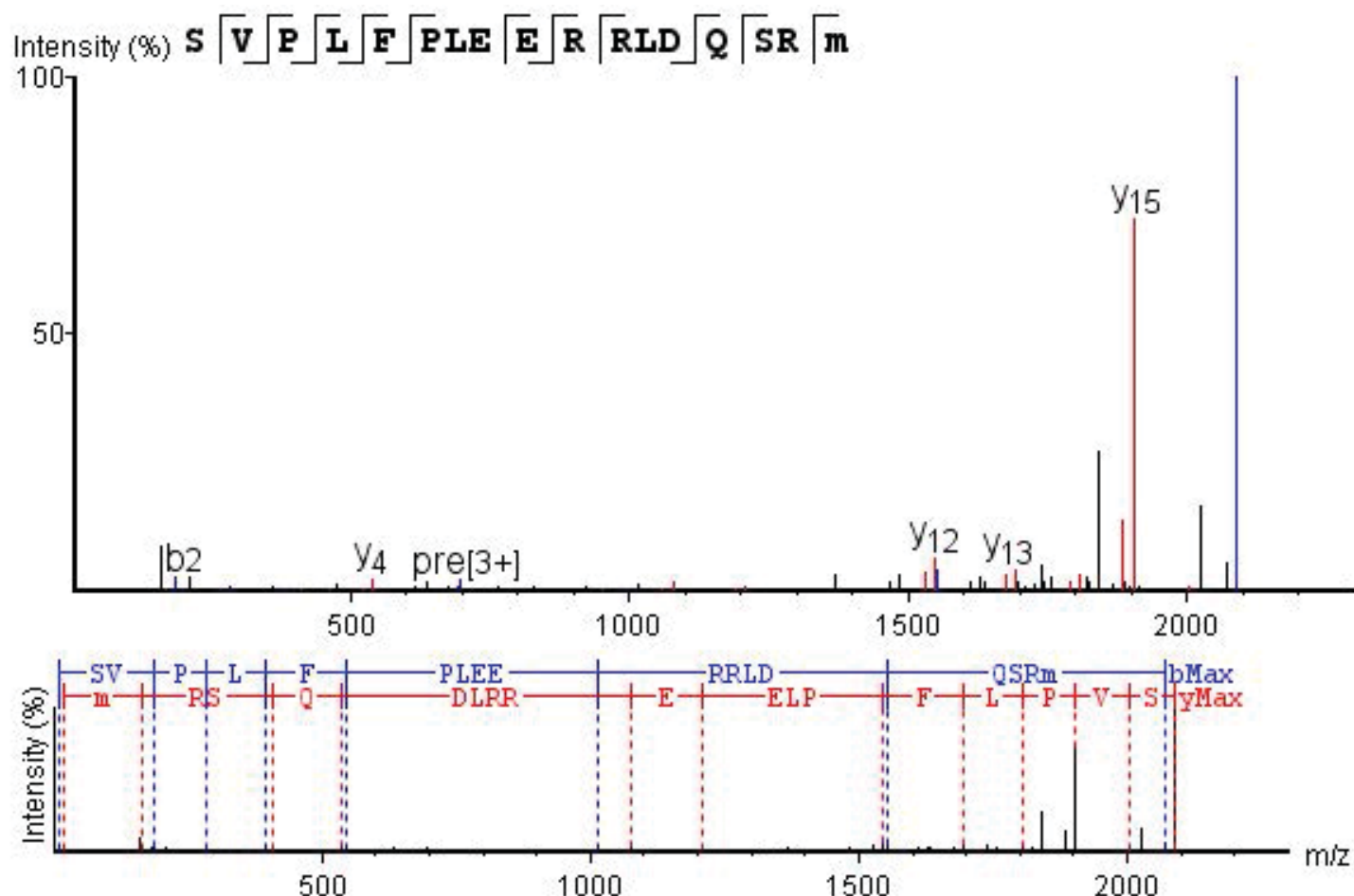
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	88.04	70.03	71.01	44.52	S					9
2	187.11	169.13	170.08	94.05	V	943.51	925.50	926.49	472.29	8
3	284.16	266.15	267.13	142.58	P	844.44	826.43	827.42	422.72	7
4	397.24	379.23	380.22	199.12	L	747.39	729.38	730.37	374.17	6
5	544.31	526.30	527.29	272.66	F	634.31	616.29	617.28	317.65	5
6	641.36	623.35	624.34	321.18	P	487.24	469.23	470.21	244.12	4
7	754.45	736.44	737.42	377.73	L	390.19	372.18	373.16	195.59	3
8	883.49	865.48	866.48	442.23	E	277.10	259.09	260.08	139.05	2
9					E	148.06	130.05	131.03	74.53	1



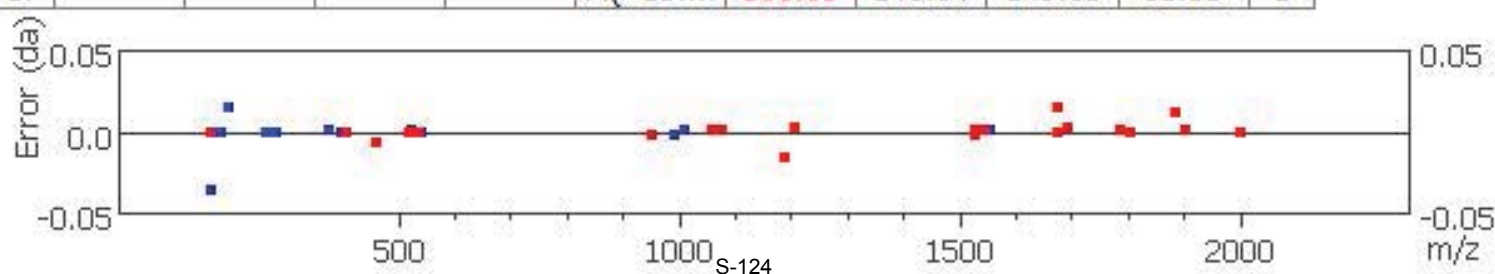


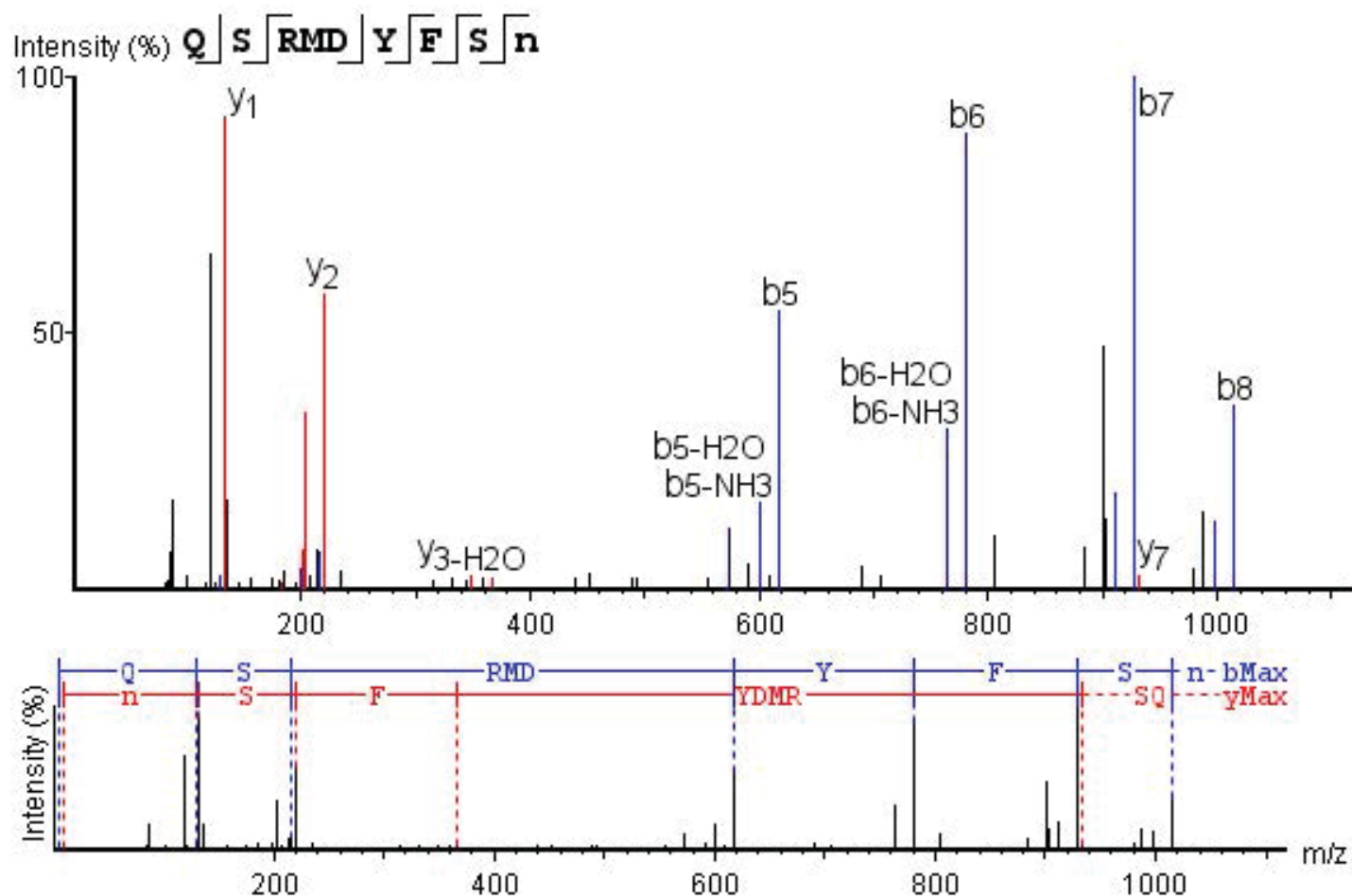
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	114.09	96.08	97.06	57.55	L					10
2	229.12	211.11	212.09	115.06	D	1148.47	1130.46	1131.45	574.73	9
3	357.18	339.17	340.15	179.09	Q	1033.44	1015.43	1016.41	517.22	8
4	444.21	426.20	427.18	222.60	S	905.38	887.37	888.36	453.19	7
5	600.31	582.30	583.28	300.66	R	818.35	800.34	801.32	409.68	6
6	731.35	713.34	714.32	366.18	M	662.25	644.24	645.22	331.62	5
7	846.38	828.37	829.35	423.69	D	531.24	513.23	514.18	266.10	4
8	1009.44	991.43	992.42	505.22	Y	416.18	398.17	399.15	208.59	3
9	1156.51	1138.50	1139.48	578.75	F	253.12	235.11	236.09	127.06	2
10					S	106.05	88.04	89.02	53.52	1



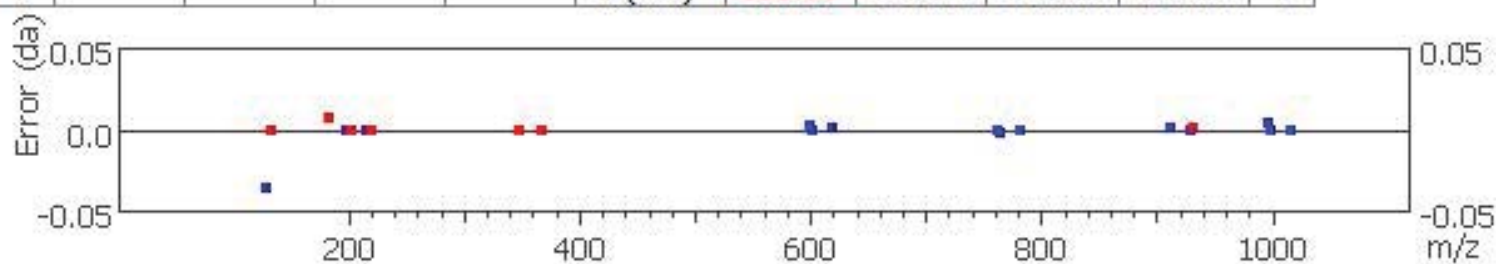


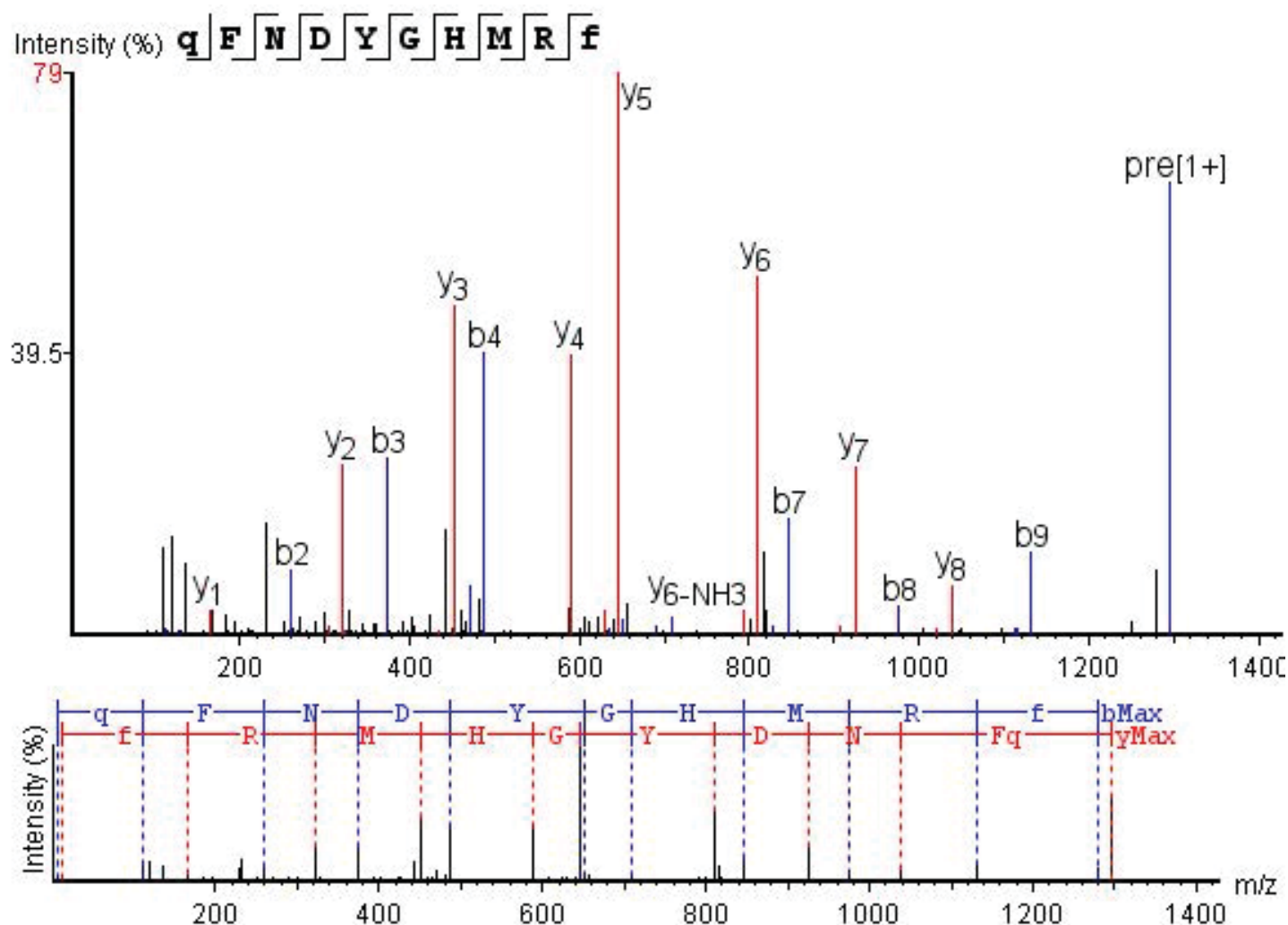
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	88.04	70.03	71.01	44.52	S					17
2	187.11	169.13	170.08	94.05	V	2002.05	1984.04	1985.03	1001.53	16
3	284.16	266.15	267.13	142.58	P	1902.98	1884.96	1885.96	952.00	15
4	397.24	379.23	380.22	199.11	L	1805.93	1787.92	1788.90	903.47	14
5	544.31	526.30	527.29	272.66	F	1692.85	1674.82	1675.82	846.92	13
6	641.37	623.36	624.34	321.18	P	1545.78	1527.77	1528.76	773.39	12
7	754.45	736.44	737.42	377.73	L	1448.73	1430.72	1431.70	724.86	11
8	883.49	865.48	866.47	442.25	E	1335.64	1317.63	1318.62	668.32	10
9	1012.53	994.53	995.51	506.77	E	1206.60	1188.59	1189.59	603.80	9
10	1168.64	1150.63	1151.61	584.82	R	1077.56	1059.54	1060.53	539.28	8
11	1324.74	1306.73	1307.71	662.87	R	921.46	903.45	904.43	461.24	7
12	1437.82	1419.81	1420.79	719.41	L	765.36	747.35	748.33	383.18	6
13	1552.85	1534.84	1535.82	776.92	D	652.27	634.26	635.24	326.64	5
14	1680.91	1662.90	1663.88	840.95	Q	537.24	519.23	520.22	269.12	4
15	1767.94	1749.93	1750.91	884.47	S	409.19	391.18	392.16	205.09	3
16	1924.04	1906.03	1907.01	962.52	R	322.15	304.14	305.13	161.58	2
17					M(+15....	166.05	148.04	149.03	83.53	1



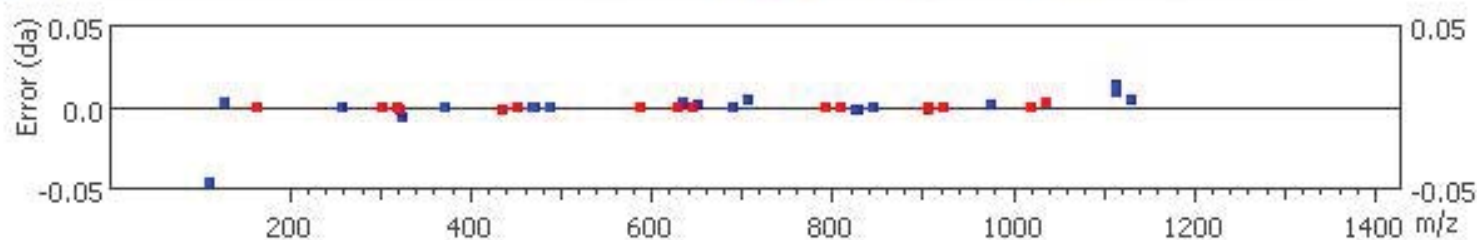


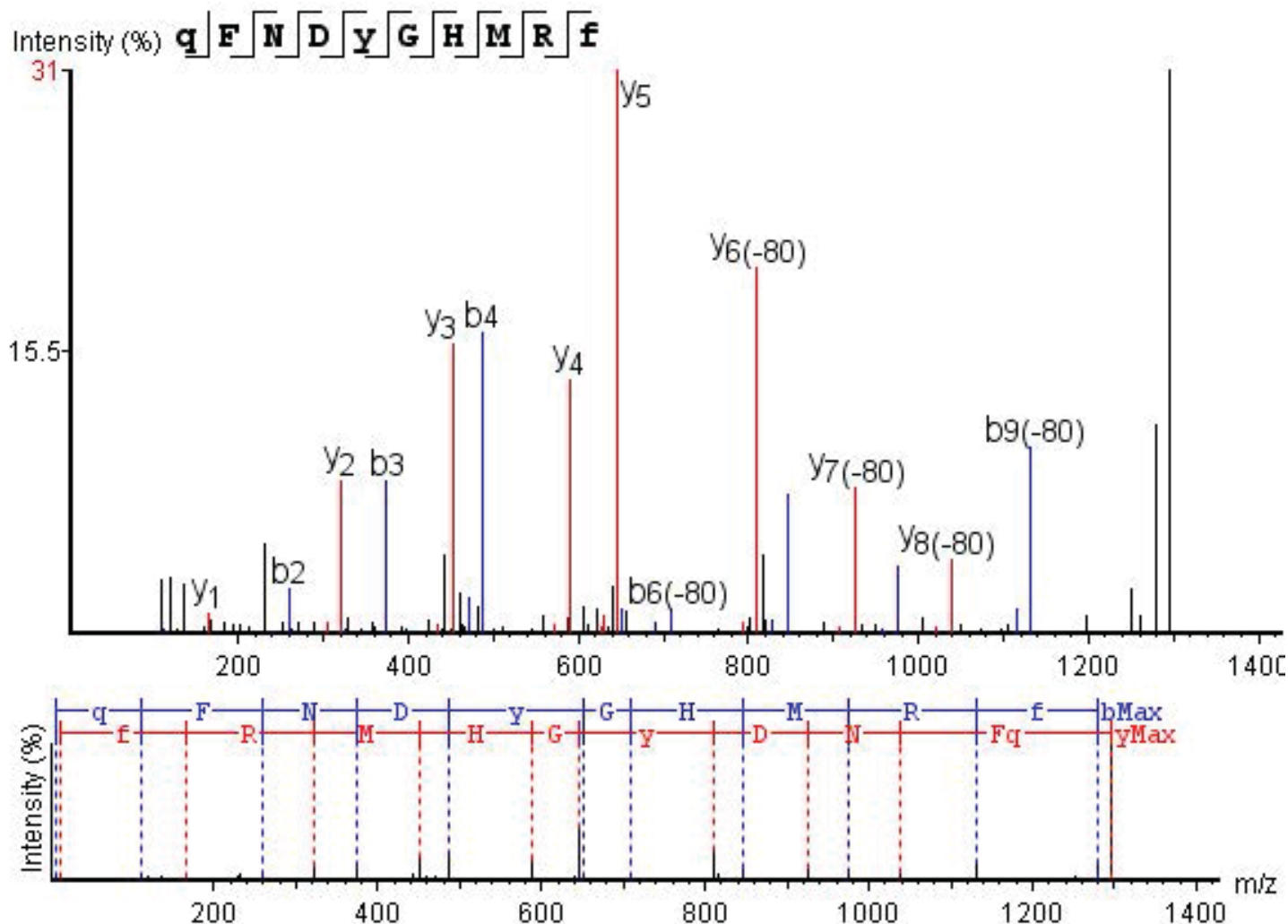
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	129.10	111.06	112.04	65.03	Q					9
2	216.10	198.09	199.07	108.55	S	1019.43	1001.41	1002.40	510.21	8
3	372.20	354.19	355.17	186.60	R	932.39	914.38	915.37	466.70	7
4	503.24	485.23	486.21	252.12	M	776.29	758.28	759.26	388.65	6
5	618.27	600.25	601.24	309.63	D	645.25	627.24	628.22	323.13	5
6	781.33	763.32	764.31	391.17	Y	530.22	512.21	513.20	265.61	4
7	928.40	910.39	911.37	464.70	F	367.16	349.15	350.13	184.07	3
8	1015.43	997.41	998.40	508.22	S	220.09	202.08	203.07	110.55	2
9					N(.00)	133.06	115.05	116.03	67.03	1



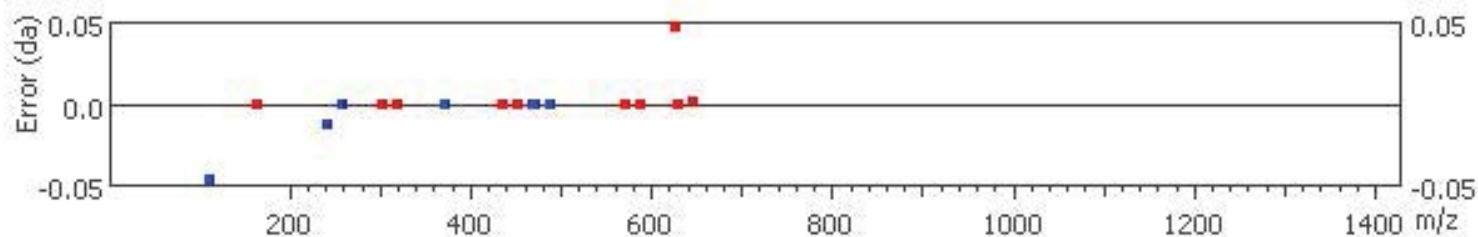


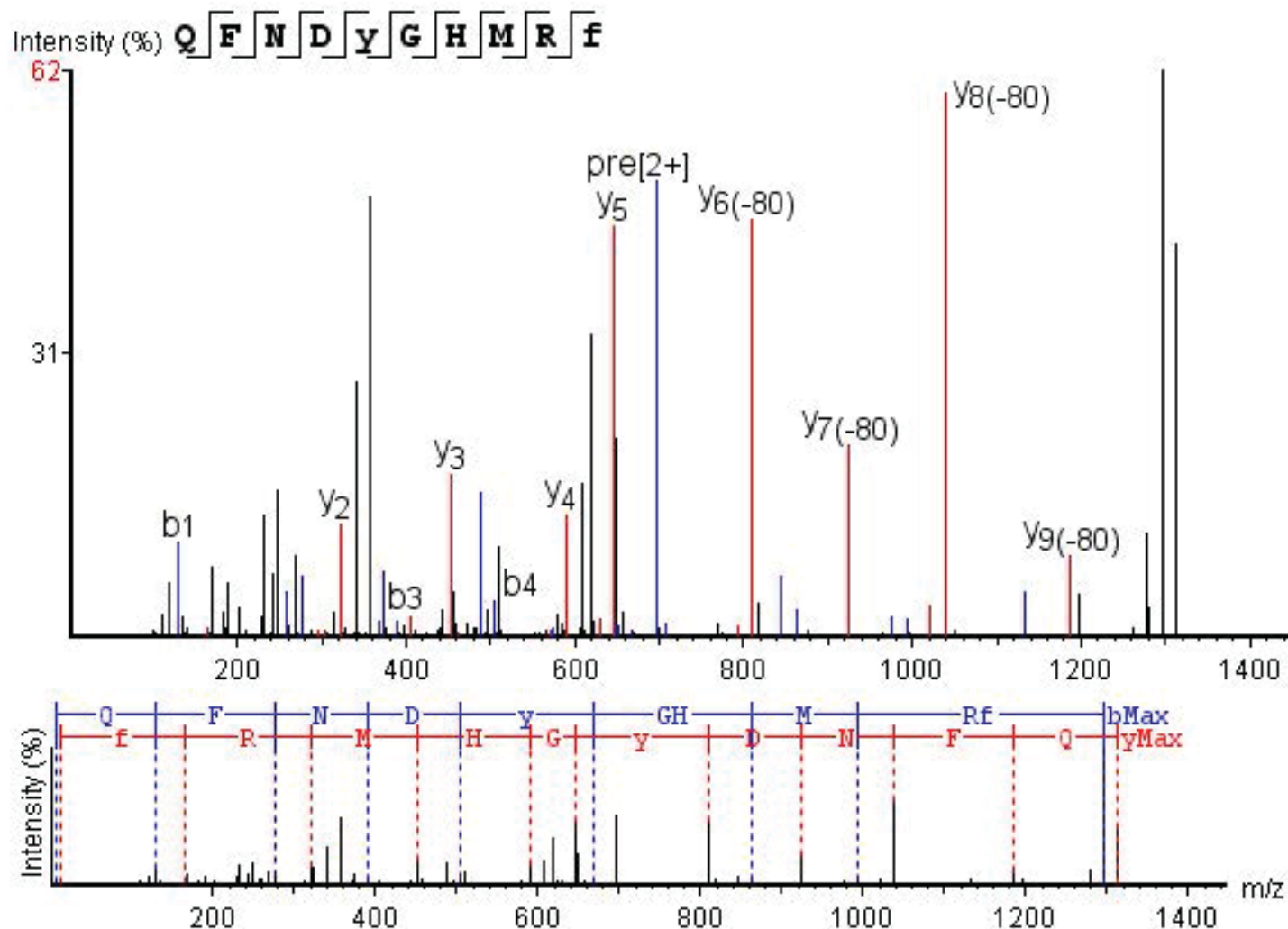
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	112.09	94.03	95.01	56.52	Q(-17.03)					10
2	259.11	241.10	242.08	130.05	F	1185.53	1167.52	1168.50	593.26	9
3	373.15	355.14	356.12	187.08	N	1038.45	1020.45	1021.43	519.73	8
4	488.18	470.17	471.15	244.59	D	924.41	906.41	907.39	462.71	7
5	651.24	633.23	634.21	326.13	Y	809.39	791.38	792.36	405.19	6
6	708.26	690.25	691.24	354.63	G	646.32	628.31	629.30	323.66	5
7	845.32	827.31	828.30	423.16	H	589.30	571.29	572.28	295.15	4
8	976.36	958.35	959.34	488.68	M	452.24	434.23	435.22	226.62	3
9	1132.46	1114.44	1115.43	566.73	R	321.20	303.19	304.18	161.10	2
10					F(-.98)	165.10	147.09	148.08	83.05	1



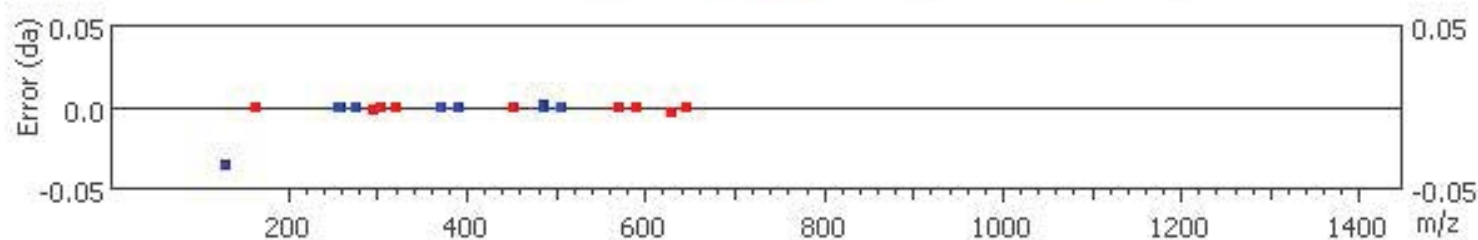


#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	112.09	94.03	95.01	56.52	Q(-17.03)					10
2	259.11	241.11	242.08	130.05	F	1265.48	1247.47	1248.46	633.24	9
3	373.15	355.14	356.12	187.08	N	1118.41	1100.40	1101.39	559.71	8
4	488.18	470.17	471.15	244.59	D	1004.37	986.36	987.34	502.69	7
5	731.20	713.19	714.17	366.10	Y(+79.96)	889.34	871.33	872.32	445.17	6
6	788.22	770.21	771.19	394.61	G	646.32	628.27	629.30	323.66	5
7	925.28	907.27	908.25	463.14	H	589.30	571.29	572.28	295.15	4
8	1056.32	1038.31	1039.29	528.66	M	452.24	434.23	435.22	226.62	3
9	1212.42	1194.41	1195.39	606.71	R	321.20	303.19	304.18	161.10	2
10					F(-.98)	165.10	147.09	148.08	83.05	1

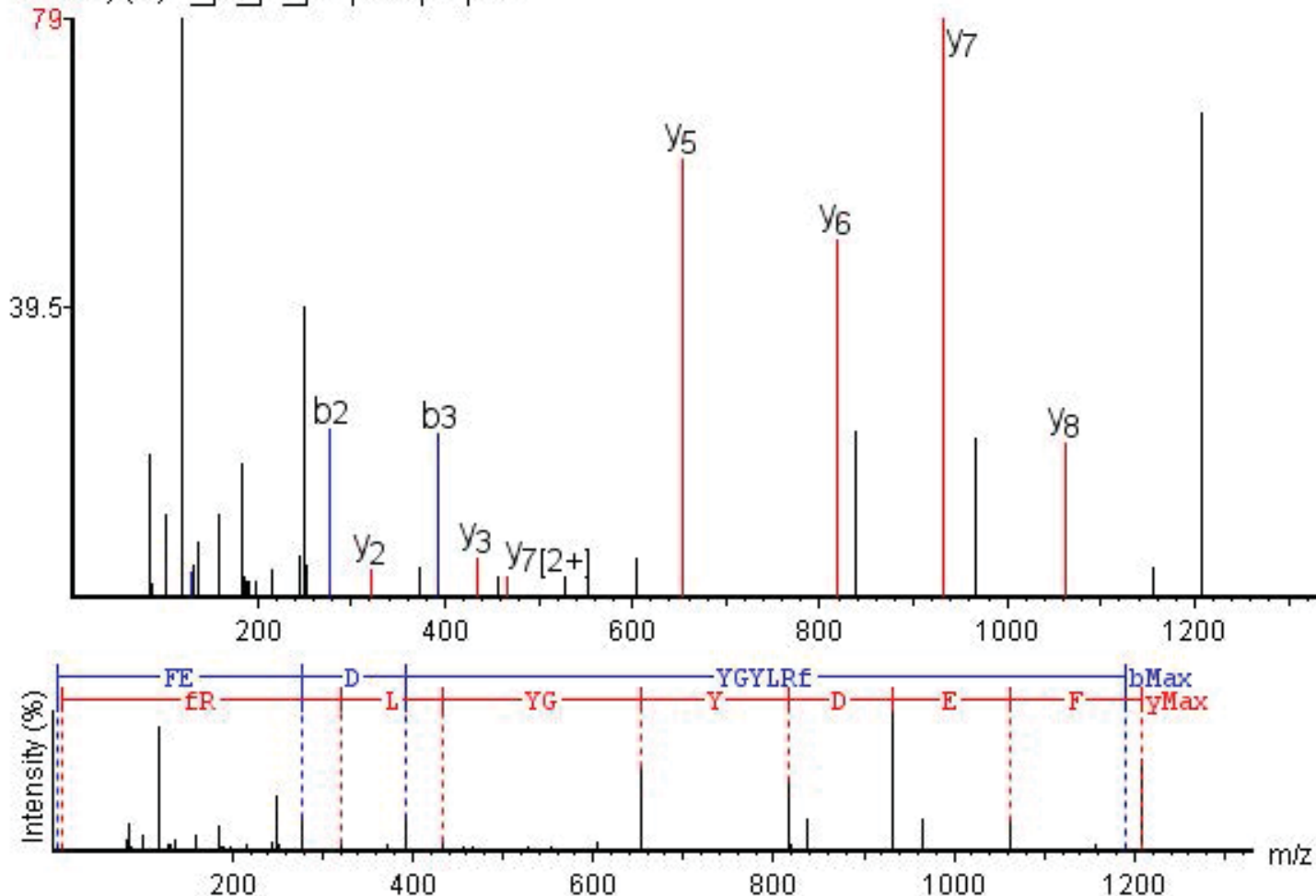




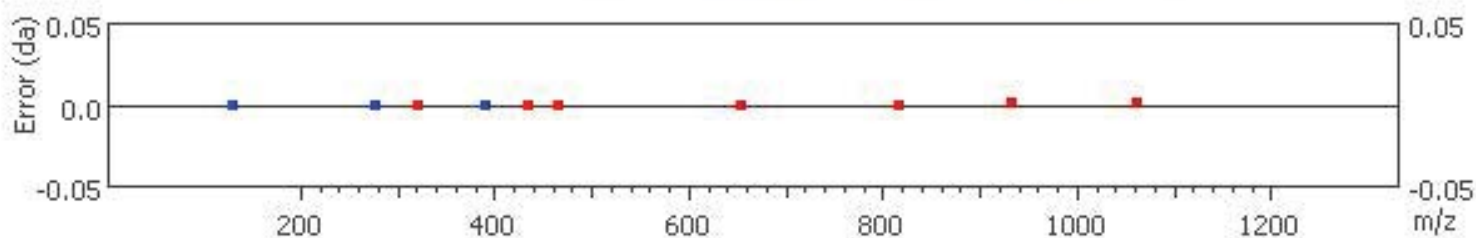
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	129.10	111.06	112.04	65.03	Q					10
2	276.13	258.12	259.11	138.57	F	1265.48	1247.47	1248.46	633.24	9
3	390.18	372.17	373.15	195.59	N	1118.41	1100.40	1101.39	559.71	8
4	505.20	487.19	488.18	253.10	D	1004.37	986.36	987.34	502.69	7
5	748.22	730.21	731.20	374.61	Y(+79.96)	889.34	871.33	872.32	445.17	6
6	805.25	787.24	788.22	403.12	G	646.32	628.31	629.30	323.66	5
7	942.31	924.29	925.28	471.65	H	589.30	571.29	572.28	295.15	4
8	1073.35	1055.34	1056.32	537.17	M	452.24	434.23	435.22	226.62	3
9	1229.45	1211.44	1212.42	615.22	R	321.20	303.19	304.18	161.10	2
10					F(-98)	165.10	147.09	148.08	83.05	1



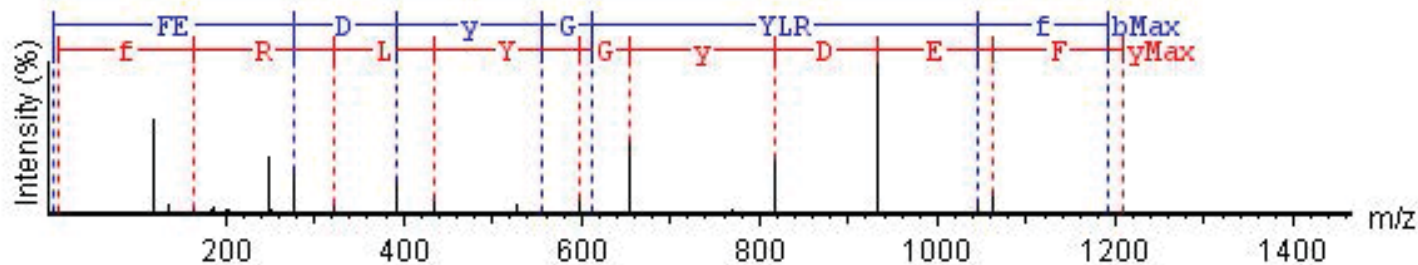
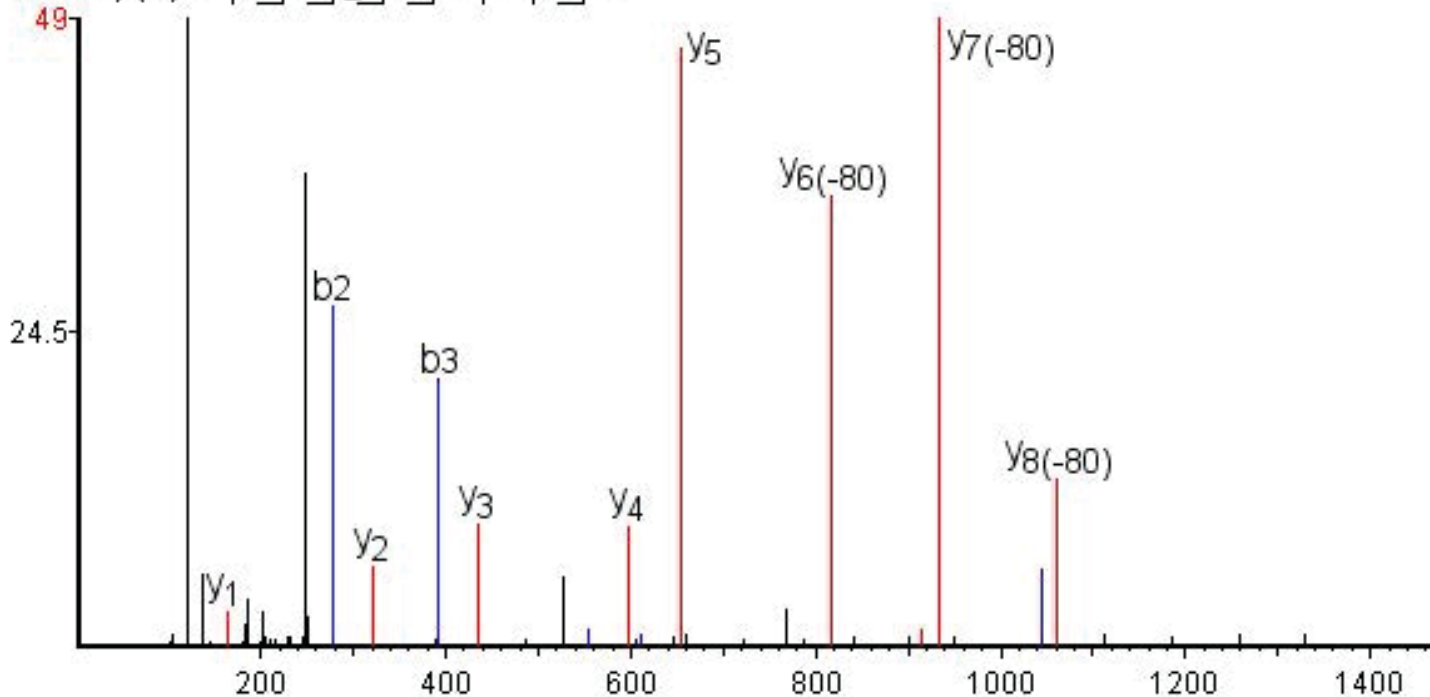
Intensity (%) **F** **E** **D** **Y** **GY** **L** **Rf**



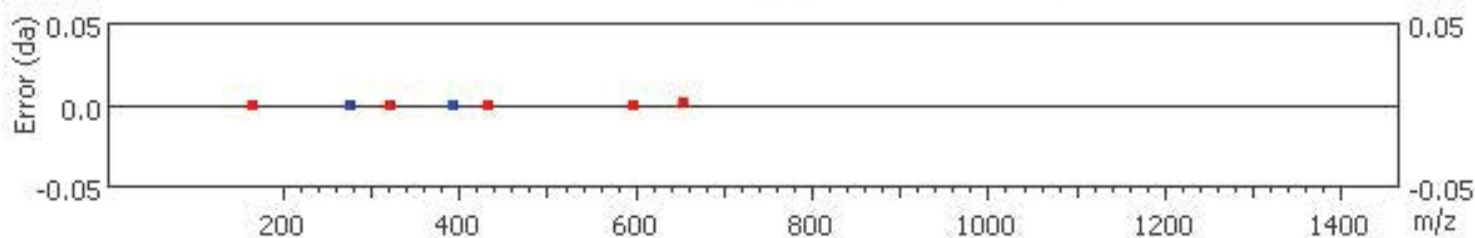
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	148.08	130.06	131.05	74.54	F					9
2	277.12	259.11	260.09	139.06	E	1061.50	1043.49	1044.48	531.25	8
3	392.14	374.14	375.12	196.57	D	932.46	914.45	915.44	466.73	7
4	555.21	537.20	538.18	278.10	Y	817.44	799.42	800.41	409.22	6
5	612.23	594.22	595.20	306.62	G	654.37	636.36	637.35	327.69	5
6	775.29	757.28	758.27	388.15	Y	597.35	579.34	580.32	299.18	4
7	888.38	870.37	871.35	444.69	L	434.29	416.28	417.26	217.64	3
8	1044.48	1026.47	1027.45	522.74	R	321.20	303.19	304.18	161.10	2
9					F(-.98)	165.10	147.09	148.08	83.05	1

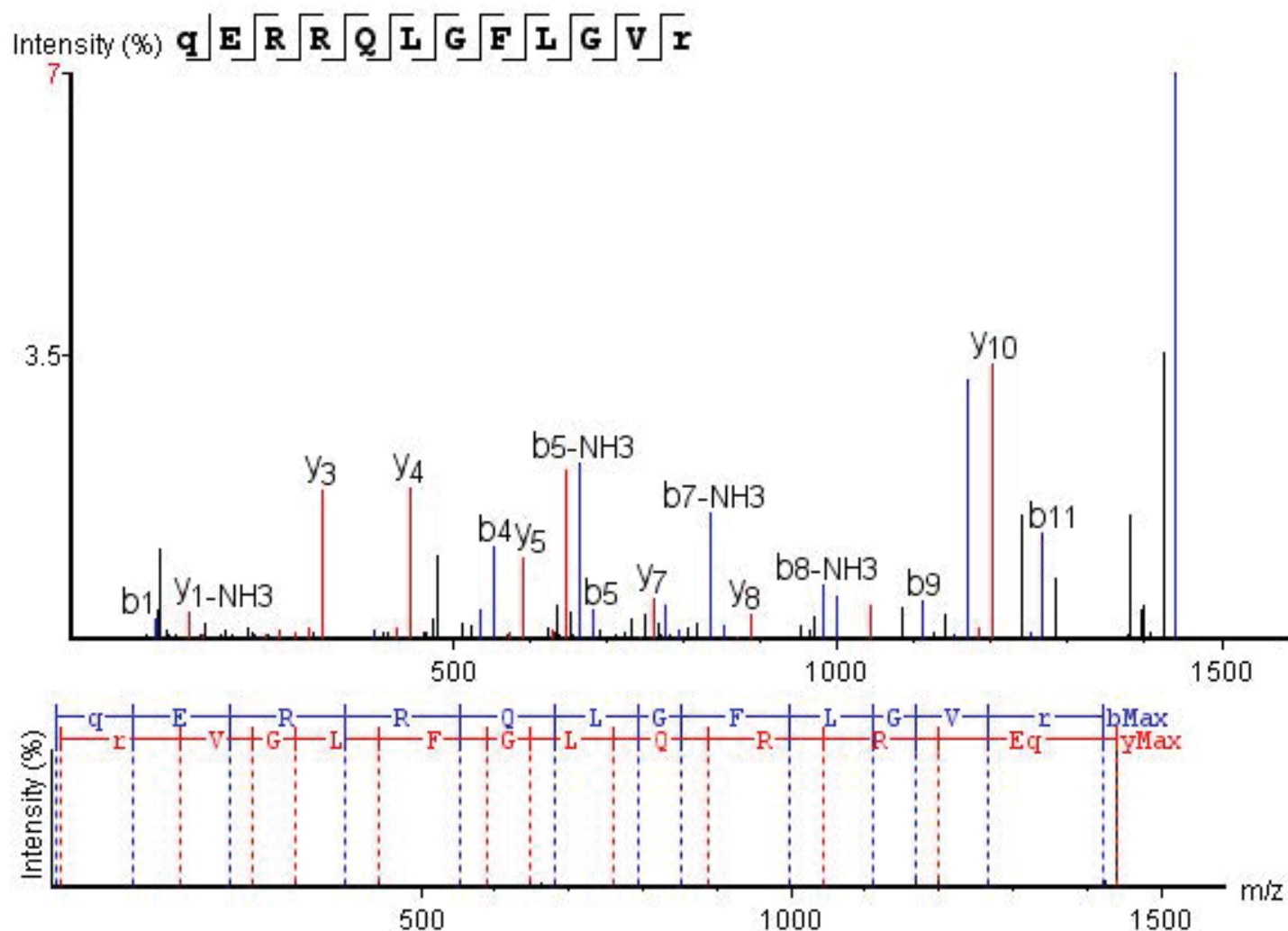


Intensity (%) **F E D Y G Y L R f**

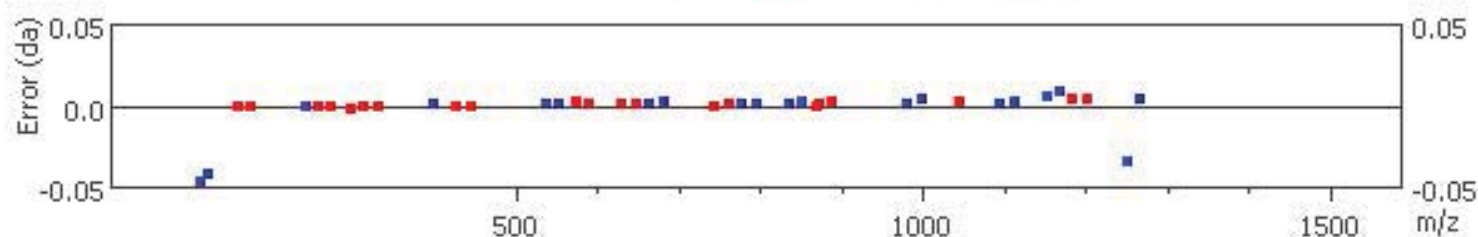


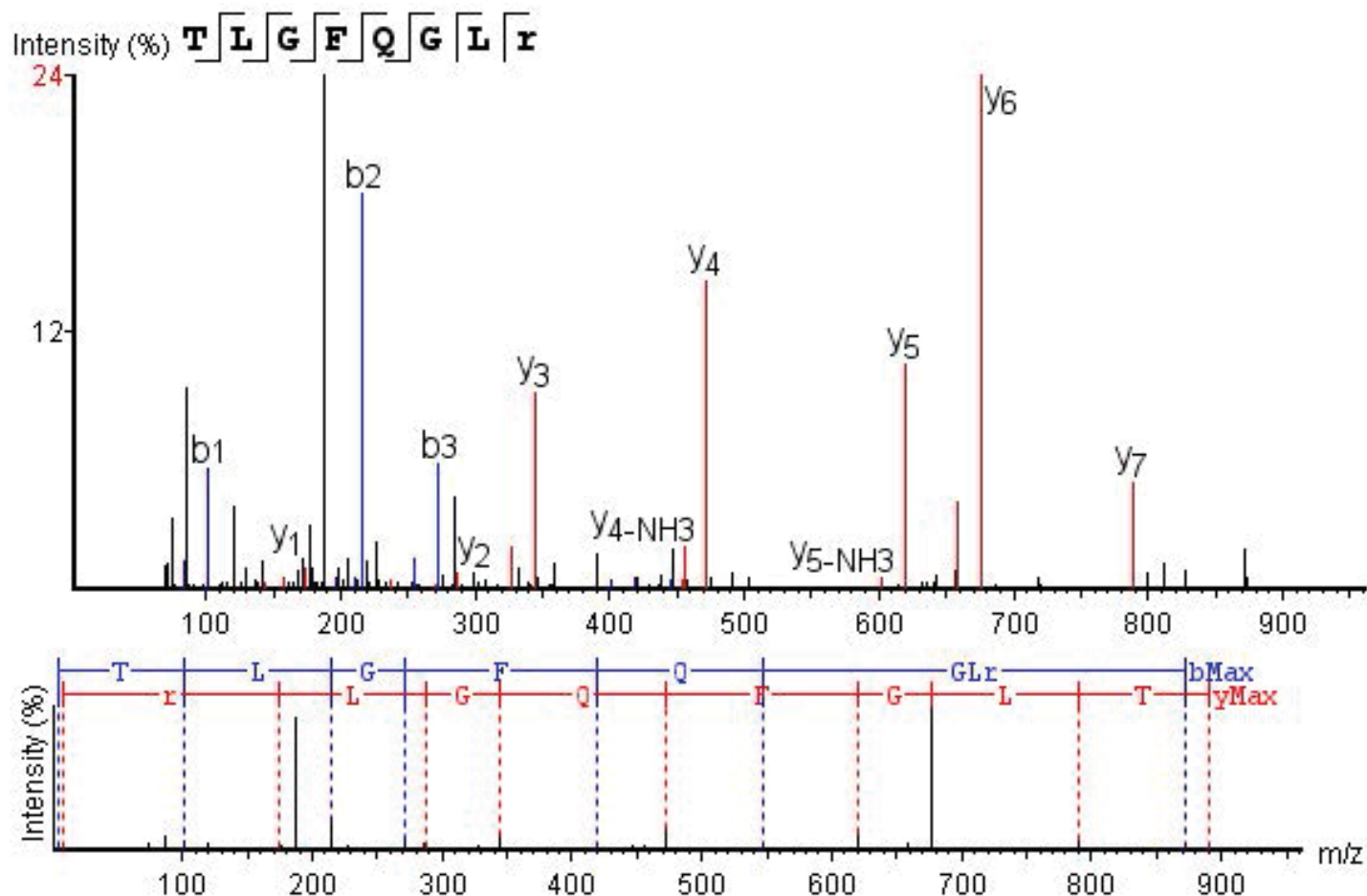
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	148.08	130.07	131.05	74.54	F					9
2	277.12	259.11	260.09	139.06	E	1141.46	1123.45	1124.43	571.23	8
3	392.15	374.14	375.12	196.57	D	1012.42	994.41	995.39	506.71	7
4	635.17	617.16	618.14	318.08	Y(+79.96)	897.39	879.38	880.37	449.20	6
5	692.19	674.18	675.16	346.59	G	654.37	636.36	637.35	327.69	5
6	855.25	837.24	838.22	428.13	Y	597.35	579.34	580.32	299.18	4
7	968.33	950.32	951.31	484.67	L	434.29	416.28	417.26	217.64	3
8	1124.44	1106.43	1107.41	562.72	R	321.20	303.19	304.18	161.10	2
9					F(-.98)	165.10	147.09	148.08	83.05	1



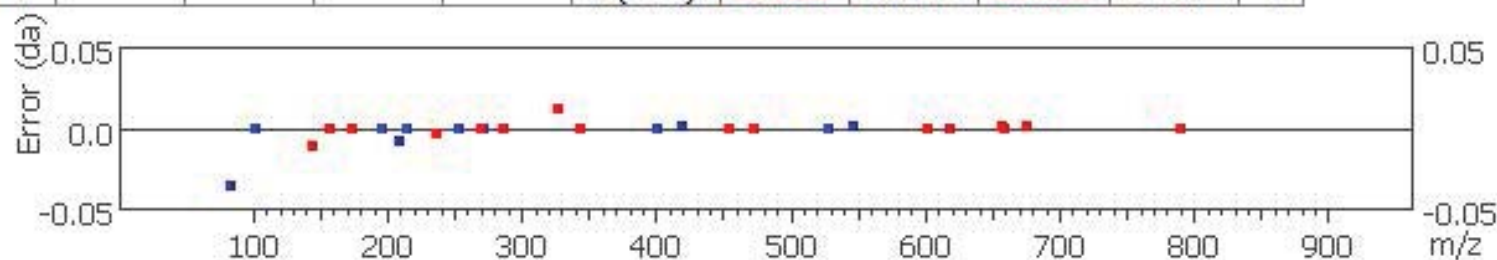


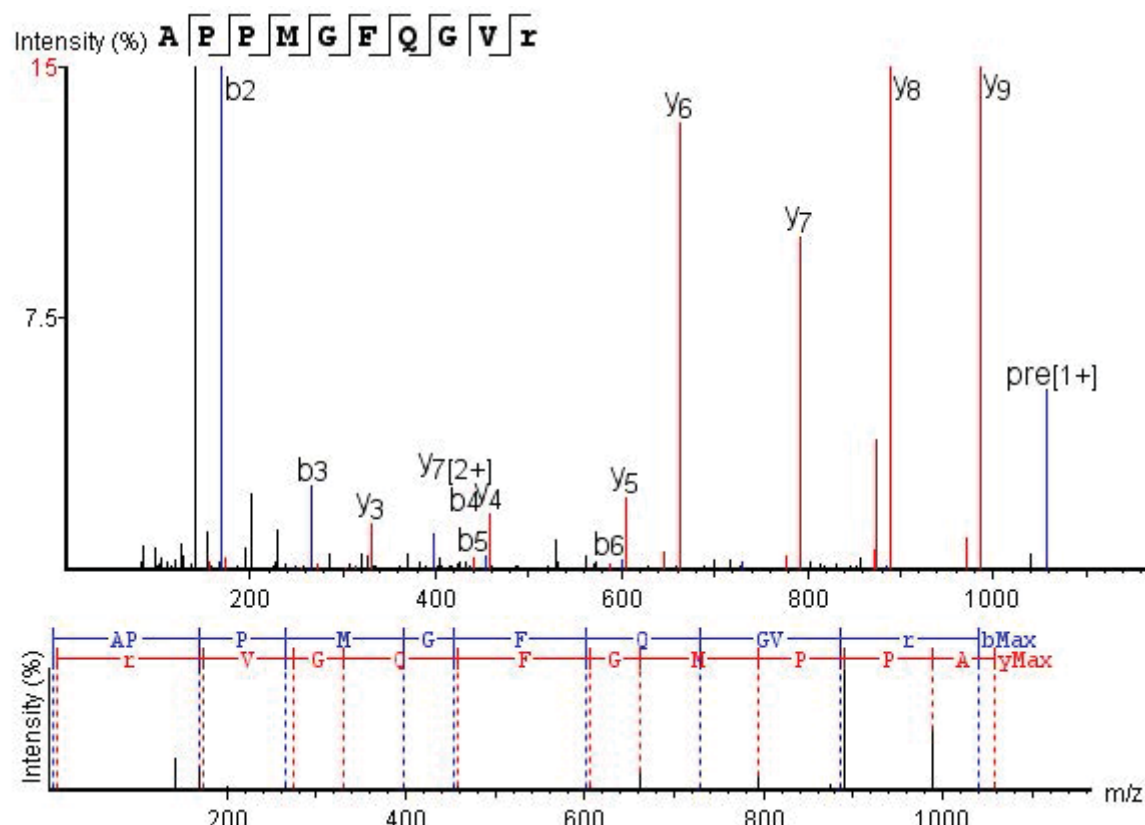
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	112.09	94.03	95.01	56.52	Q(-17.03)					12
2	241.08	223.07	224.06	121.08	E	1329.79	1311.78	1312.76	665.39	11
3	397.18	379.17	380.16	199.09	R	1200.74	1182.73	1183.71	600.87	10
4	553.28	535.27	536.26	277.14	R	1044.64	1026.63	1027.62	522.82	9
5	681.34	663.33	664.31	341.17	Q	888.54	870.53	871.51	444.77	8
6	794.42	776.42	777.40	397.71	L	760.48	742.47	743.46	380.74	7
7	851.44	833.44	834.42	426.22	G	647.40	629.39	630.37	324.20	6
8	998.51	980.51	981.49	499.76	F	590.38	572.37	573.35	295.69	5
9	1111.60	1093.59	1094.57	556.30	L	443.31	425.30	426.28	222.15	4
10	1168.61	1150.61	1151.59	584.81	G	330.22	312.21	313.20	165.61	3
11	1267.69	1249.68	1250.70	634.35	V	273.20	255.19	256.18	137.10	2
12					R(-.98)	174.13	156.12	157.11	87.57	1



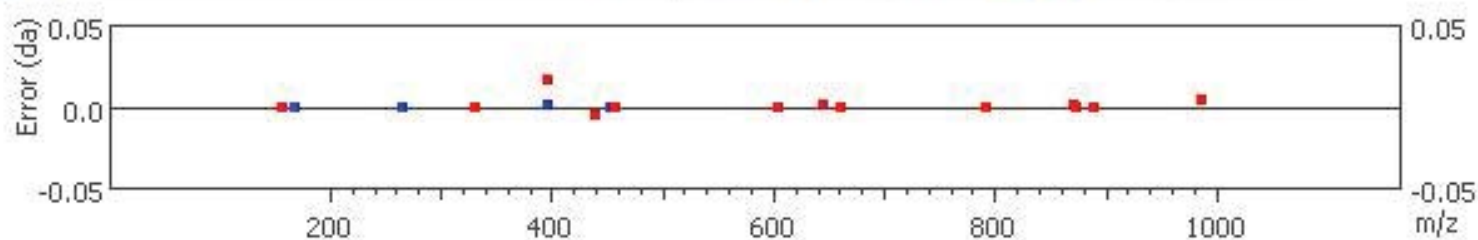


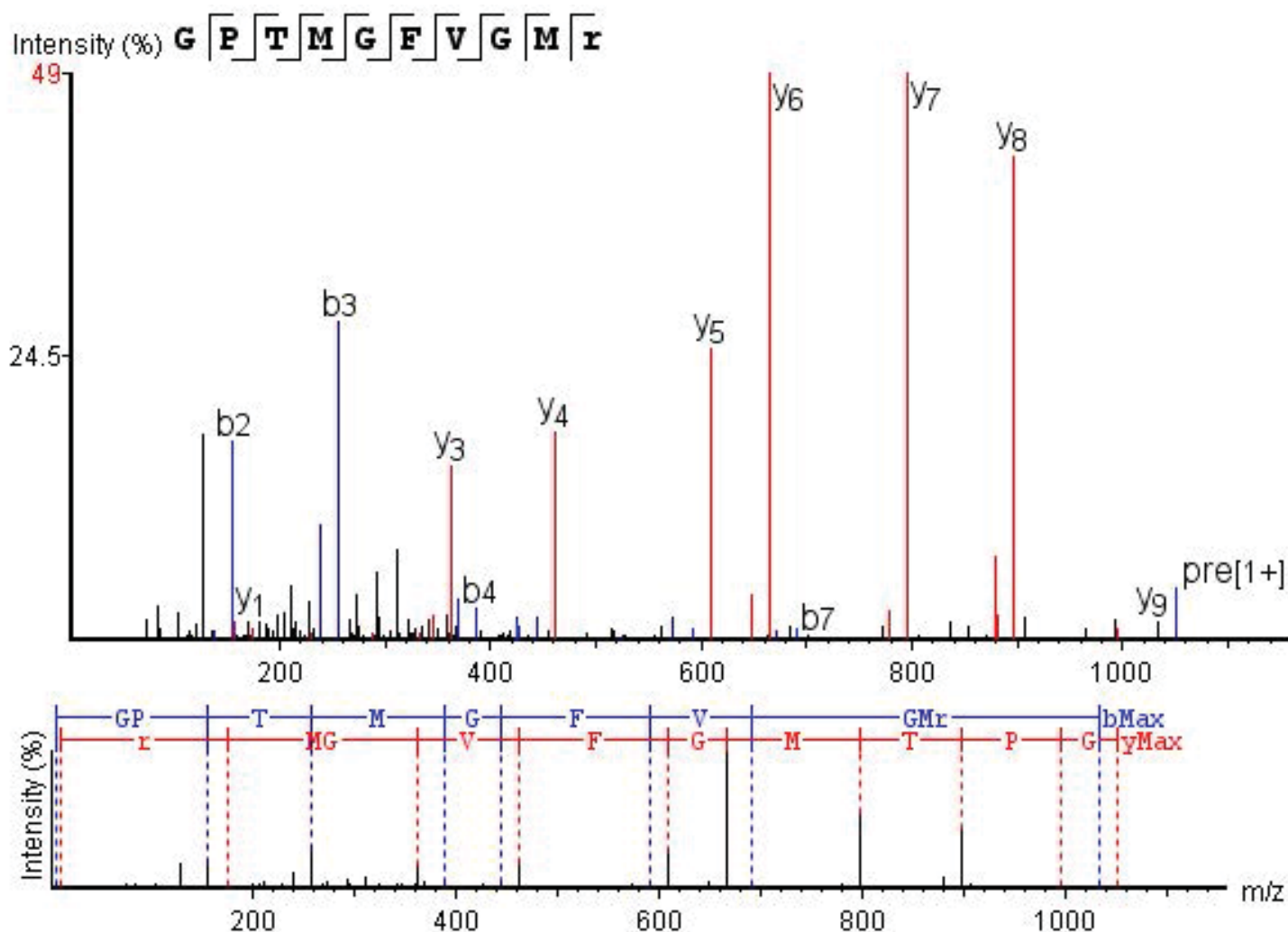
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	102.06	84.08	85.03	51.53	T					8
2	215.14	197.13	198.11	108.07	L	789.47	771.46	772.45	395.24	7
3	272.16	254.15	255.13	136.58	G	676.39	658.38	659.36	338.69	6
4	419.23	401.22	402.20	210.12	F	619.37	601.36	602.34	310.18	5
5	547.29	529.28	530.26	274.14	Q	472.30	454.29	455.27	236.65	4
6	604.31	586.30	587.28	302.65	G	344.24	326.23	327.20	172.62	3
7	717.39	699.38	700.37	359.20	L	287.22	269.21	270.19	144.12	2
8					R(-.98)	174.13	156.12	157.11	87.57	1



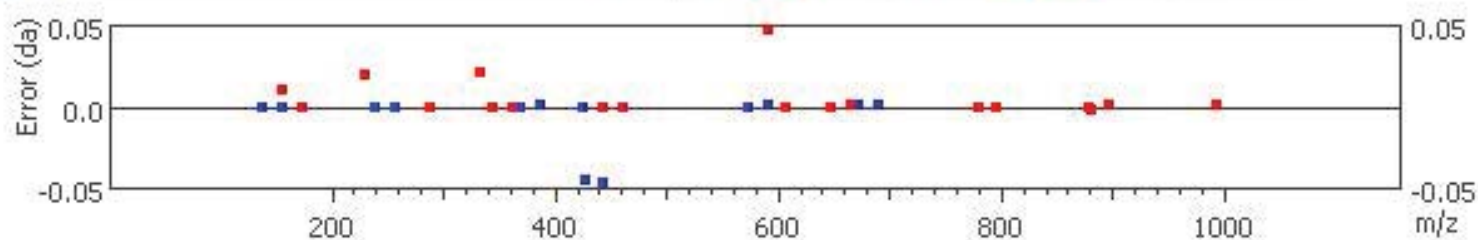


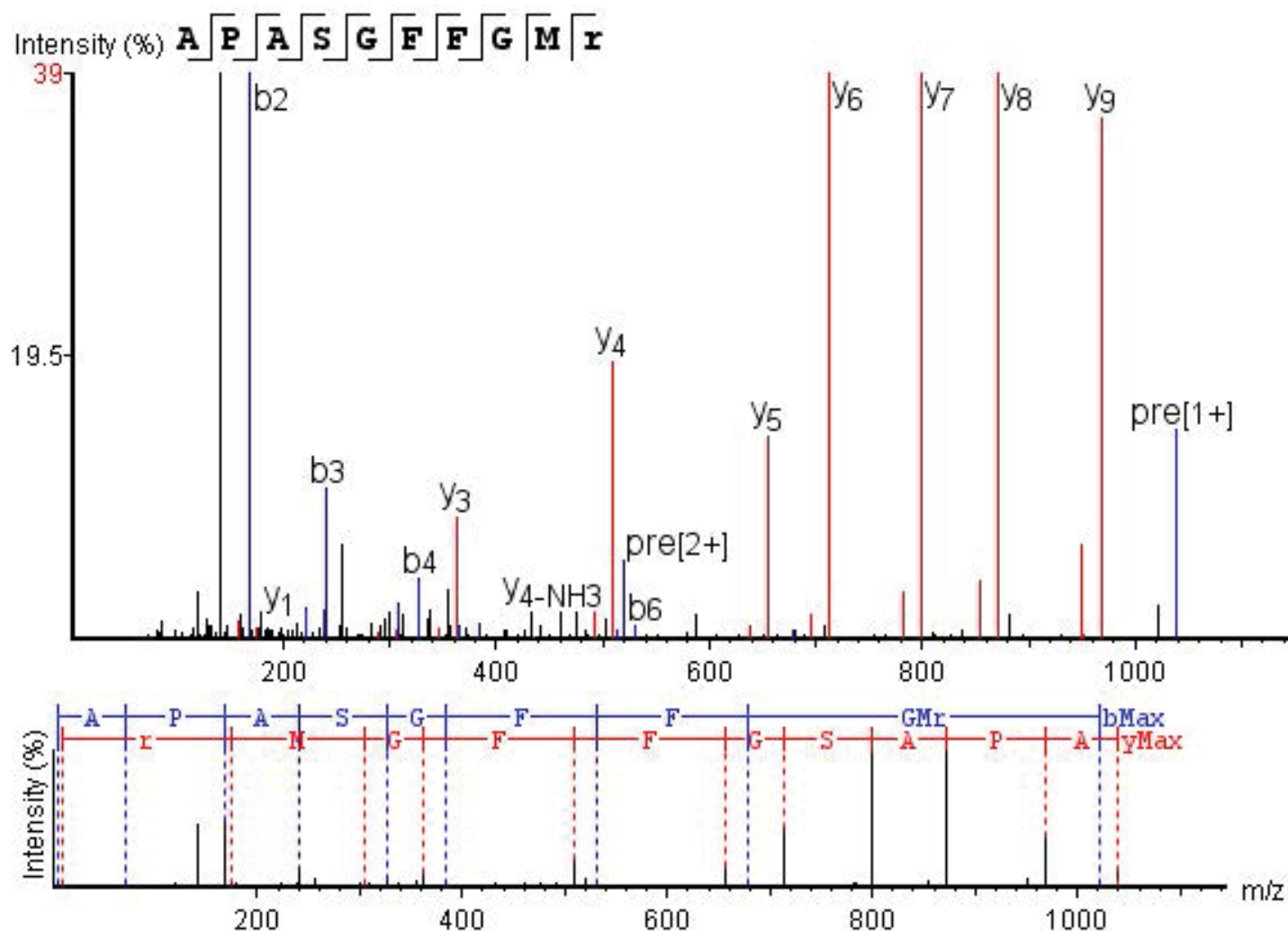
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.04	54.03	55.02	36.52	A					10
2	169.10	151.09	152.07	85.05	P	987.51	969.51	970.49	494.26	9
3	266.15	248.14	249.12	133.58	P	890.47	872.45	873.44	445.73	8
4	397.19	379.18	380.16	199.10	M	793.41	775.40	776.39	397.19	7
5	454.21	436.20	437.19	227.61	G	662.37	644.36	645.34	331.69	6
6	601.28	583.27	584.25	301.14	F	605.35	587.34	588.32	303.18	5
7	729.34	711.33	712.31	365.17	Q	458.28	440.28	441.26	229.64	4
8	786.36	768.35	769.33	393.68	G	330.22	312.21	313.20	165.61	3
9	885.43	867.42	868.40	443.21	V	273.20	255.19	256.18	137.10	2
10					R(-.98)	174.13	156.12	157.11	87.57	1



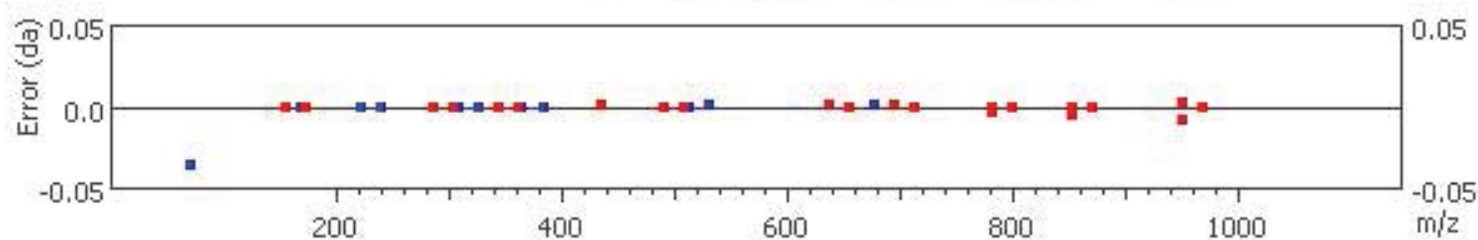


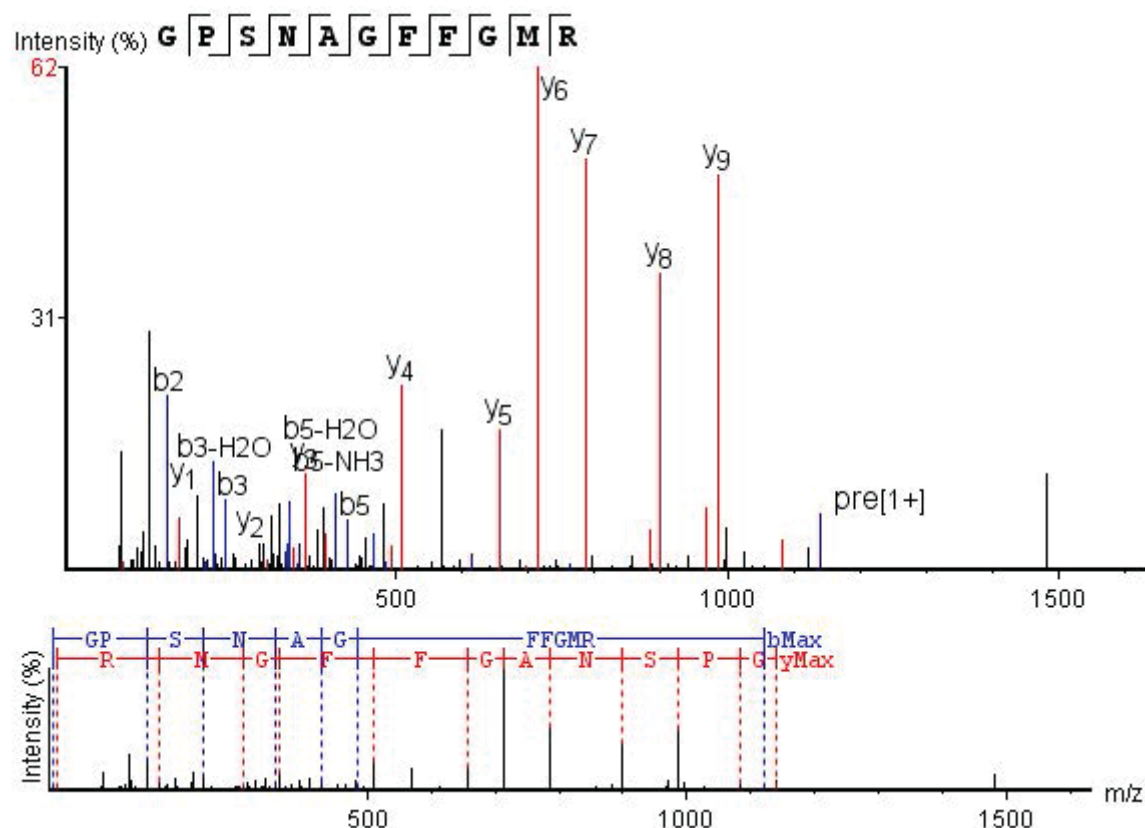
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					10
2	155.08	137.07	138.05	78.04	P	994.49	976.49	977.47	497.75	9
3	256.13	238.12	239.10	128.56	T	897.44	879.43	880.42	449.22	8
4	387.17	369.16	370.14	194.09	M	796.39	778.39	779.37	398.70	7
5	444.24	426.18	427.21	222.60	G	665.35	647.35	648.33	333.16	6
6	591.26	573.25	574.23	296.13	F	608.33	590.32	591.26	304.67	5
7	690.33	672.32	673.30	345.66	V	461.26	443.25	444.24	231.11	4
8	747.35	729.34	730.32	374.17	G	362.20	344.19	345.17	181.60	3
9	878.39	860.38	861.36	439.70	M	305.18	287.16	288.15	153.09	2
10					R(-.98)	174.13	156.12	157.10	87.57	1



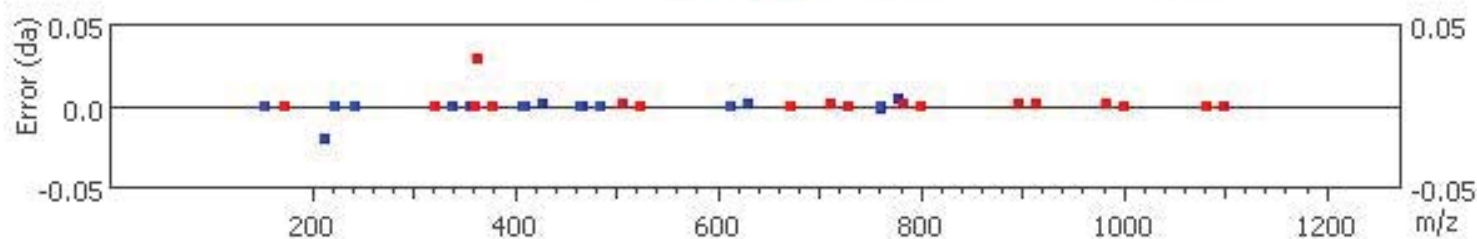


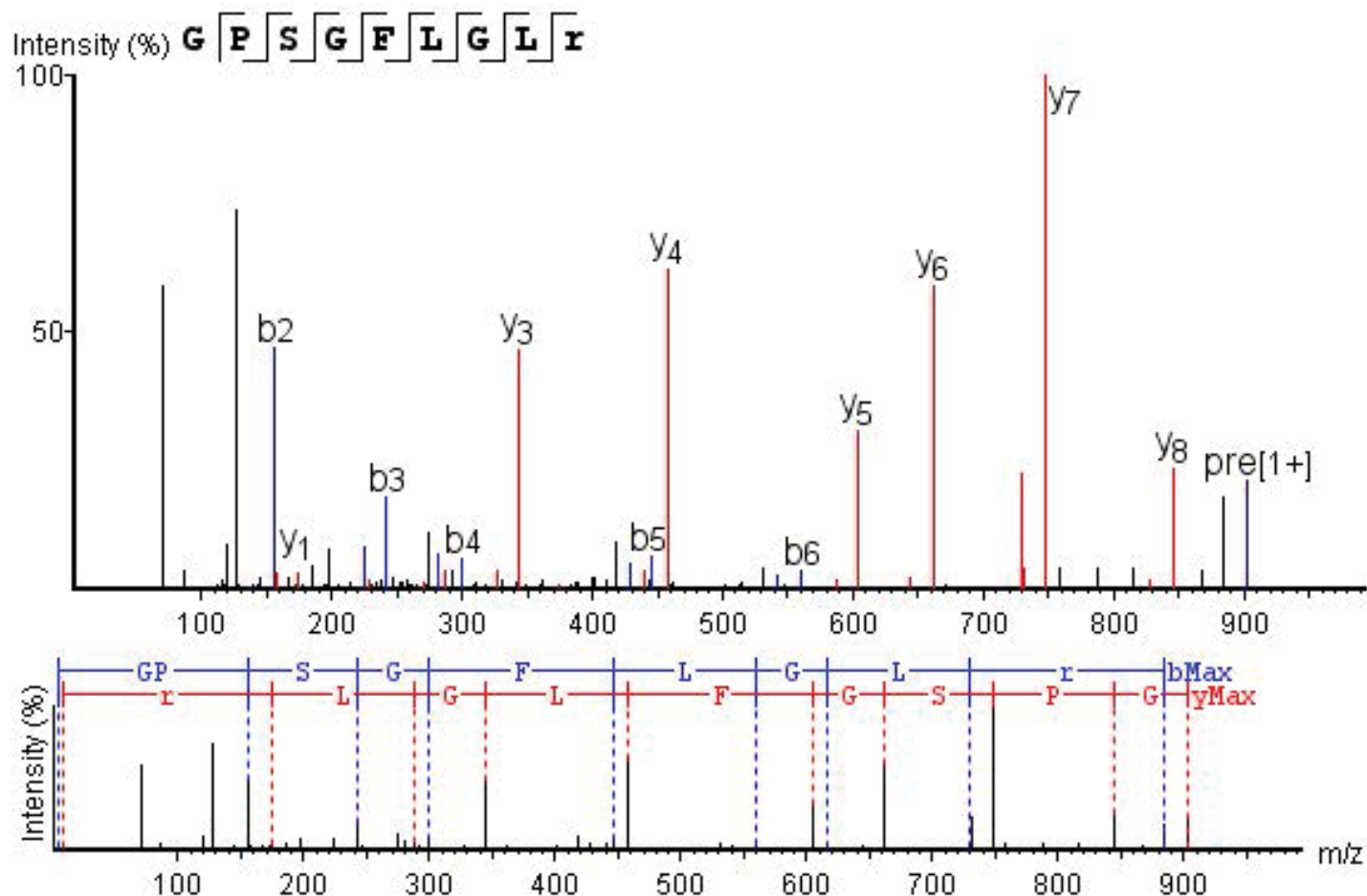
#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	72.08	54.03	55.02	36.52	A					10
2	169.10	151.09	152.07	85.05	P	968.48	950.47	951.45	484.74	9
3	240.13	222.12	223.11	120.57	A	871.42	853.41	854.40	436.21	8
4	327.17	309.16	310.14	164.08	S	800.39	782.38	783.36	400.69	7
5	384.19	366.18	367.16	192.59	G	713.35	695.34	696.33	357.18	6
6	531.25	513.25	514.23	266.13	F	656.33	638.32	639.30	328.67	5
7	678.32	660.31	661.30	339.66	F	509.26	491.25	492.24	255.13	4
8	735.35	717.34	718.32	368.17	G	362.20	344.19	345.17	181.60	3
9	866.39	848.38	849.36	433.69	M	305.18	287.16	288.15	153.09	2
10					R(-.98)	174.13	156.12	157.11	87.57	1



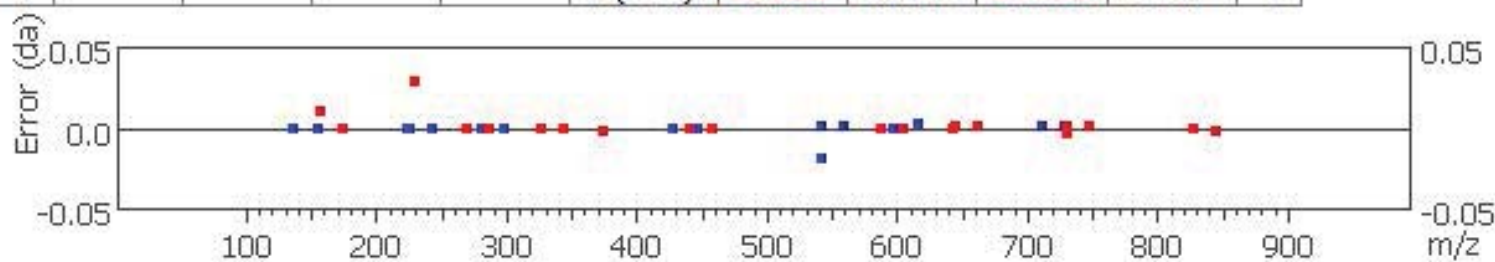


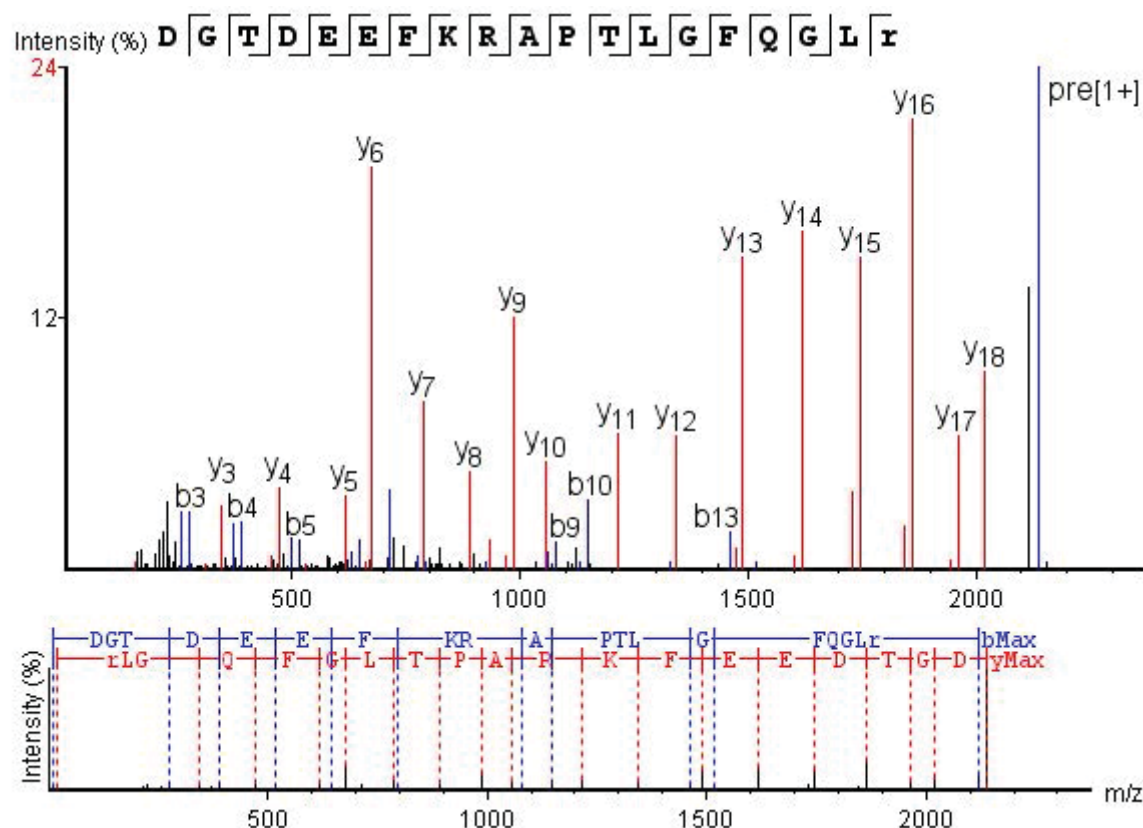
#	b	b-H2O	b-NH3	b (2+)	Seq	y	y-H2O	y-NH3	y (2+)	#
1	58.03	40.02	41.00	29.51	G					11
2	155.08	137.07	138.06	78.04	P	1098.52	1080.50	1081.49	549.76	10
3	242.11	224.10	225.09	121.56	S	1001.46	983.45	984.43	501.23	9
4	356.16	338.15	339.13	178.58	N	914.43	896.42	897.40	457.72	8
5	427.19	409.18	410.17	214.12	A	800.39	782.38	783.36	400.69	7
6	484.21	466.20	467.19	242.61	G	729.35	711.34	712.32	365.15	6
7	631.28	613.27	614.26	316.14	F	672.33	654.32	655.30	336.66	5
8	778.35	760.34	761.33	389.68	F	525.26	507.25	508.23	263.13	4
9	835.37	817.36	818.35	418.19	G	378.19	360.18	361.17	189.60	3
10	982.41	964.40	965.38	491.70	M(+15.99)	321.17	303.16	304.14	161.09	2
11					R(-.98)	174.13	156.12	157.11	87.57	1



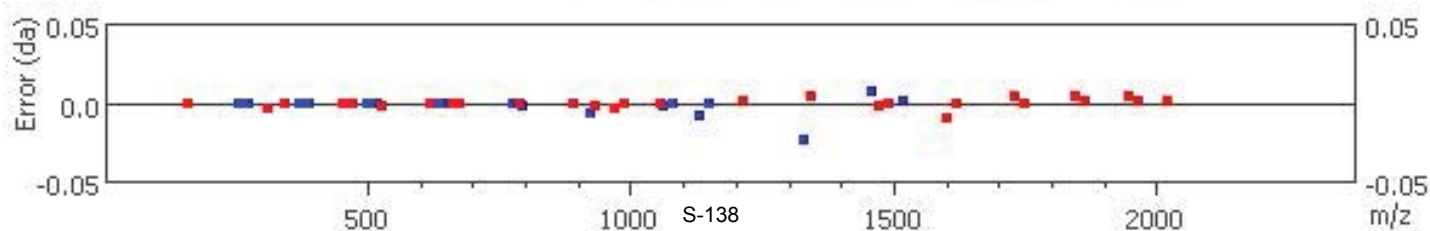


#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	58.03	40.02	41.00	29.51	G					9
2	155.08	137.07	138.06	78.04	P	845.50	827.49	828.47	423.25	8
3	242.11	224.10	225.09	121.56	S	748.44	730.43	731.42	374.73	7
4	299.13	281.12	282.11	150.07	G	661.41	643.40	644.39	331.21	6
5	446.20	428.19	429.18	223.60	F	604.39	586.38	587.36	302.70	5
6	559.29	541.28	542.28	280.14	L	457.32	439.31	440.30	229.13	4
7	616.31	598.30	599.28	308.65	G	344.24	326.23	327.21	172.62	3
8	729.39	711.38	712.37	365.20	L	287.22	269.21	270.19	144.11	2
9					R(-.98)	174.13	156.12	157.10	87.57	1





#	b	b-H ₂ O	b-NH ₃	b (2+)	Seq	y	y-H ₂ O	y-NH ₃	y (2+)	#
1	116.03	98.02	99.01	58.52	D					19
2	173.06	155.05	156.03	87.03	G	2021.05	2003.05	2004.03	1011.03	18
3	274.10	256.09	257.08	137.55	T	1964.03	1946.02	1947.01	982.52	17
4	389.13	371.12	372.10	195.07	D	1862.98	1844.97	1845.96	932.00	16
5	518.17	500.16	501.15	259.59	E	1747.96	1729.94	1730.93	874.48	15
6	647.21	629.20	630.19	324.11	E	1618.92	1600.91	1601.90	809.96	14
7	794.29	776.27	777.26	397.64	F	1489.87	1471.86	1472.85	745.44	13
8	922.38	904.37	905.35	461.69	K	1342.80	1324.80	1325.78	671.90	12
9	1078.48	1060.47	1061.45	539.74	R	1214.71	1196.70	1197.68	607.86	11
10	1149.52	1131.52	1132.49	575.26	A	1058.61	1040.60	1041.58	529.81	10
11	1246.57	1228.56	1229.54	623.79	P	987.57	969.56	970.55	494.29	9
12	1347.62	1329.61	1330.62	674.31	T	890.52	872.51	873.49	445.76	8
13	1460.69	1442.69	1443.68	730.85	L	789.47	771.46	772.45	395.24	7
14	1517.72	1499.71	1500.70	759.36	G	676.39	658.38	659.36	338.69	6
15	1664.79	1646.78	1647.77	832.90	F	619.37	601.36	602.34	310.19	5
16	1792.85	1774.84	1775.82	896.93	Q	472.30	454.29	455.27	236.65	4
17	1849.87	1831.86	1832.84	925.44	G	344.24	326.23	327.21	172.62	3
18	1962.96	1944.95	1945.93	981.98	L	287.22	269.21	270.19	144.11	2
19					R(-.98)	174.13	156.12	157.11	87.57	1



page No.	peptide name	peptide sequence	calculated mass	observed mass	charge state	mass difference	E-value	MALDI	orbitrap
			[M+H] ⁺	m/z	z=	[ppm]			
<i>ACP</i>									
1	ACP	pQVTSRDWSA-NH ₂	1178,5854	589,7828	2	-0.4	9.97E+06	+	+
<i>AKH</i>									
2	AKH	pQITFSTGW-NH ₂	921,4730	461,2279	2	2.3	1.76E+06	+	+
<i>AstA</i>									
3	AstA-2	LPVYNFGL-NH ₂	921,5193	461,2630	2	0.5	8.32E+06	+	+
4	AstA-3	AAGEKTYSFGL-NH ₂	1142,5840	571,7952	2	-0.9	7.10E+07	+	+
5	AstA-5+6	LPKQYSFGLGKRPEGKMYSFGL-NH ₂	2502,3326	626,3326	4	-0.6	3.23E+06	+	+
6	AstA-5	LPKQYSFGL-NH ₂	1051,5913	526,3007	2	0.7	7.01E+07	+	+
7	AstA-6	PEGKMYSFGL-NH ₂	1127,5554	564,2829	2	2.8	2.93E+07	+	+
8	AstA-7	TKSGKDLRYMFGI-NH ₂	1514,8148	757,9125	2	2.0	2.48E+06	+	+
9	AstA-8	DVDEDERARQERSMHYNFGL-NH ₂	2466,1215	474,6986	2	-0.6	2.23E+04	+	+
10	AstA-8	DVDEDERARQERSMHYNFGL-NH ₂	2466,1215	492,2242	2	1.0	1.42E+07	+	+
11	AstA-PP5	IANMQEKDTTQSALVN-OH	1762,8640	881,9348	2	-0.9	7.82E+06		+
<i>AstC</i>									
12	AstC	SYWQCAFNAVSCF-NH ₂	1650,7348	825,8633	2	0.1	3.17E+08	+	+
<i>Allatotropin (AT)</i>									
13	AT	GFKNGPLNTARGF-NH ₂	1377,7386	689,3722	2	-1.1	7.99E+06	+	+
14	extended AT	GRSTRGFKNGPLNTARGF-NH ₂	1935,0420	484,5160	4	0.1	2.19E+06	-	+
<i>CT-DH</i>									
15	CT-DH	GLDLGLSRGFSGSQAAKHLMGLAAANFAGGP-NH ₂	2970,5367	739,0605	3	0.8	1.53E+06	-	+
16	CT-DH	GLDLGLSRGFSGSQAAKHLMGLAAANFAGGP-NH ₂	2970,5367	387,6972	2	-2.9	1.27E+05	-	+
<i>CAPA</i>									
17	PVK-1	EVRPFEPFRV-NH ₂	1274,7004	637,8524	2	-2.2	7.12E+06	+	+
18	PVK-1 (pQ)	pQVRPFEPFRV-NH ₂	1256,7004	628,8491	2	1.0	4.10E+06	+	+
19	PVK-1 ³⁻¹⁰	RPFEFPRV-NH ₂	1046,5894	349,5345	3	-0.5	7.64E+05	+	+
20	PVK-2	EGGLIPFPRI-NH ₂	1097,6466	549,3256	2	2.5	8.21E+07	+	+
21	PVK-2 (pQ)	pQGGLIPFPRI-NH ₂	1080,6463	540,3225	2	1.7	4.45E+06	+	+
22	tryptoPK	NGGNGGGLWFGPRL-NH ₂	1514,7611	672,3552	2	4.7	1.30E+05	+	+
23	N-term. ext. tryptoPK	SGPKRNGGNGGGLWFGPRL-NH ₂	2040,0634	510,7725	4	2.3	2.33E+06	+	+
24	C-term. ext. tryptoPK	NGGNGGGLWFGPRLGKIQ-OH	1942,0042	971,5072	2	1.6	1.33E+06	+	+
25	CAPA-PP1	EDIPSHAPKL-OH	1106,5840	369,5327	3	-0.5	5.50E+06	+	+
26	CAPA-PP1 ²⁻¹⁰	DIPSHAPKL-OH	977,5415	326,5182	3	-1.2	4.53E+06	+	+
27	CAPA-PP2	SKNFPVTWGLQEDKY-OH	1811,8963	604,6383	3	2.8	2.10E+06	+	+
<i>CCHamide-1</i>									
28	CCHamide-1	SGSCLSYGHSWGAH-NH ₂	1548,6263	774,8079	2	-1.4	8.55E+05	+	+
<i>CNMamide</i>									
29	CNMamide	AGYMALCHFICINM-NH ₂	1598,7255	533,5752	3	0.7	3.23E+06	+	+
<i>Corazonin</i>									
30	Corazonin	pQMIFYSGWRN-NH ₂	1454,7012	727,8417	2	1.0	3.08E+07	+	+
<i>CRF-DH</i>									
31	CRF-DH	SSPSLSVANPIDVLSRSLMLEINRRWMNKVDEGQVQANRQFLQTI-NH ₂	5208,7633	762,0837	3	1.6	1.45E+06	+	+
32	CRF-DH	SSPSLSVANPIDVLSRSLMLEINRRWMNKVDEGQVQANRQFLQTI-NH ₂	5208,7633	736,6429	4	0.6	1.18E+07	+	+
33	CRF-DH-PP1	TLQEVPRDPETTWPL-OH	1781,9068	891,4587	2	1.9	7.57E+06	+	+
34	ext. CRF-DH-PP1	TLQEVPRDPETTWPLRKL-OH	2179,1870	467,8649	5	3.1	1.93E+06	+	+
35	CRF-DH-PP2	YVDVQPRMTAELQDILEDLEKV-OH	2604,3225	889,4451	2	2.3	1.17E+07	+	+
36	CRF-DH-PP3	YIMPQRALYQDKSDSPTDYNNSGDLNWDSS-OH	3480,5285	641,8348	2	0.7	1.68E+07	+	+
<i>ext. FMRFamides</i>									
37	FMRFa-1	SALEKNFMRF-NH ₂	1241.65	419,8856	3	1.2	1.82E+05	+	+
38	FMRFa-3	AKGNFIRF-NH ₂	951.55	317,8552	3	1.3	5.84E+03	-	+
39	FMRFa-4	NADNFMRF-NH ₂	1013.46	515,2320	2	-0.4	3.18E+05	-	+
40	FMRFa-6	NTENFIRF-NH ₂	1039.53	520,2701	2	0.9	7.57E+06	-	+
41	FMRFa-7	NDNFMRF-NH ₂	942.43	471,7171	2	1.9	2.43E+05	-	+
42	FMRFa-8	GRGFVGFARQKEMDKGGGFIREF-NH ₂	2459.29	376,1996	3	1.6	8.19E+05	-	+
43	FMRFa-PP3	NRDVVLSJWT-NH ₂	1185.63	593,3220	2	-0.6	1.34E+06	-	+
44	FMRFa-PP6	STNENILRKN-OH	1188.63	594,8201	2	0.2	4.55E+04	-	+

<i>Pyrokinin</i>									
45	PK-1	NTVNFRPRL -NH ₂	1115.64	558,3248	2	-0.8	9.46E+06	+	+
46	PK-2	SPPFAPRL -NH ₂	883.51	442,2620	2	2.1	5.27E+07	+	+
47	ext. PK-2	EEDIIFTETSRSPPFAPRL -NH ₂	2204.13	735,3853	3	3.1	2.72E+06	+	+
48	PK-3	MVPFSPRF -NH ₂	979.52	490,2635	2	1.7	1.33E+08	+	+
<i>Kinin</i>									
49	K-1	DSPGPKMRFSSWG -NH ₂	1450.69	725,8477	2	-0.9	2.83E+05	+	+
50	K-2	SKFSSWG -NH ₂	797.39	399,1830	2	1.2	6.78E+06	-	+
51	K-3	KFSSWG -NH ₂	710.36	355,6850	2	1.0	1.74E+06	-	+
52	ext. K-3	KFSSWGGKRLPADYEE -OH	1869.91	623,6479	3	0.1	2.80E+06	-	+
53	K-4	AKFNSWG -NH ₂	808.41	404,7085	2	-0.4	3.42E+06	-	+
54	K-6	STFNSWG -NH ₂	797.36	399,2006	2	0.1	7.33E+06	-	+
55	K-7	TKFNSWG -NH ₂	838.42	427,711	2	-0.7	1.74E+05	-	+
56	K-9	RGPDFYAWG -NH ₂	1067.51	534,2584	2	3.6	1.68E+06	+	+
57	K-PP2 ¹⁻¹¹	GASGLDEILEE -OH	1132.54	566,7739	2	3.6	1.45E+06	-	+
58	K-PP6	EDETWRDMI -OH	1194.51	597,7596	2	1.9	6.63E+05	+	+
59	K-PP7	AINSTADMLIF -OH	1195.60	598,3057	2	1.1	1.25E+05	-	+
<i>MIP/AST-B</i>									
60	MIP-1	AWKDLTTAW -NH ₂	1090.57	545,7894	2	3.3	7.32E+07	-	+
61	MIP-2	GWKDLPATGW -NH ₂	1129.58	573,2910	2	0.8	3.67E+05	+	+
62	MIP-3	GWQDLQSAW -NH ₂	1089.51	545,2595	2	0.5	2.15E+07	-	+
63	MIP-4	GWTDLNSGGW -NH ₂	1091.49	546,2490	2	0.3	1.82E+07	-	+
64	MIP-5,6,7	GWQDLNSGGW -NH ₂	1118.50	559,7538	2	-1.0	7.23E+07	-	+
65	MIP-8	GWQDLQAPAW -NH ₂	1170.57	585,7887	2	0.9	3.20E+07	-	+
66	MIP-9	SWVSLHSGW -NH ₂	1057.52	529,2650	2	1.1	7.38E+07	-	+
67	MIP-10	AADWGSFRGSW -NH ₂	1238.57	619,7878	2	-1.5	3.31E+07	+	+
68	MIP-11	DPAWQNLKGLW -NH ₂	1326.69	677,8481	2	-0.9	2.25E+04	-	+
<i>Neuropeptide F (NPF)</i>									
69	NPF ¹⁻¹² (Q)	QPMPADAMARPA -OH	1255.59	628,2991	2	-0.9	2.92E+06	(+)	+
70	NPF ¹⁴⁻³³	PKTFDPPDDLRTYLNQLGQY -OH	2371.16	791,0582	3	1.5	5.61E+05	+	+
71	NPF ³⁴⁻⁴²	YAVAGRPRF -NH ₂	1035.58	436,7633	2	2.2	4.98E+06	+	+
72	NPF-PP2	TGFSPRLHLALDGLSSYRYPLSDPSEL YELFPQAD -OH	4068.04	748,6392	4	4.6	1.93E+07	+	++
73	NPF-PP2	TGFSPRLHLALDGLSSYRYPLSDPSEL YELFPQAD -OH	4068.04	548,2716	2	0.3	2.81E7	+	++
<i>Natalisin</i>									
74	Nat-1	SDVRAVLGAETEPGFWPTR -NH ₂	2087.07	696,3605	3	-0.3	3.12E+05	+	+
75	Nat-2	GGSSSEEQPPFWAHR -NH ₂	1680.79	560,9338	3	-0.5	8.61E+05	+	+
76	Nat-3	DVLQPLWVR -NH ₂	1239.68	620,3451	2	-1.2	4.19E+06	+	+
77	Nat-PP	YAQEPKYLLIQ -OH	1365.74	683,3743	2	0.1	4.58E+06	-	+
<i>Neuropeptide-like precursor 1 (NPLP1)</i>									
78	NPLP1-2	pQANIIARMAHLQSYPRYYSNIAP -OH	2660.37	887,4534	3	2.1	2.01E+07	+	+
79	NPLP1-3	DEKSSLELAERLEEEFEFA -OH	2239.02	752,8789	2	1.1	2.31E+06	+	++
80	NPLP1-3	DEKSSLELAERLEEEFEFA -OH	2239.02	377,1494	2	-2.9	4.08E+06	+	++
81	NPLP1-4	SGDIRVTGDLEE -OH	1290.62	660,2811	2	4.4	1.37E+05	+	+
82	NPLP1-5	DELEGLVHDLASAEEM -OH	1757.79	605,8018	2	1.2	2.98E+06	-	++
83	NPLP1-7	SFAALARVDALP -OH	1230.68	615,8470	2	2.2	2.09E+07	+	+
84	NPLP1-9	GISSIARNGYYQ -OH	1328.66	664,8334	2	0.2	1.44E+07	+	+
85	NPLP1-10	MDDDLEQLMSEVYGIGE -OH	1943.82	497,7061	2	-9.7	1.39E+07	-	++
86	NPLP1-10	MDDDLEQLMSEVYGIGE -OH	1943.82	492,7212	2	0.8	1.05E+07	-	++
87	NPLP1-11	NVASLARGFSLPQ -NH ₂	1358.75	679,8815	2	1.3	5.82E+08	+	+
88	NPLP1-12	NIASIVR -NH ₂	771.48	400,2425	2	-0.9	4.56E+05	+	++
89	NPLP1-13	DSFEETNED -OH	1085.39	485,6855	2	0.0	4.10E+05	-	++
90	NPLP1-14	NLPSIIRDRTEPLGE -NH ₂	1708.93	868,9706	2	2.9	9.46E+05	+	+
91	NPLP1-15	HIGAFVANHGIPFVND -OH	1707.86	569,9597	3	2.7	1.54E+08	+	+
92	NPLP1-16	NVGVLAKNRDYPYALKF -NH ₂	1967.09	984,0483	2	1.6	2.61E+06	+	+
93	NPLP1-17	DVDEEIN -OH	790.37	417,1787	2	-2.6	1.26E+06	-	+
94	NPLP1-18	HVATLLRQA -OH	1008.59	504,8005	2	-1.1	1.31E+07	+	+
95	NPLP1-19	LSDHPTETDDISLKETAQDDLKEEMSQITKDDMEHTRT -OH	4403.01	524,2577	3	-0.6	8.63E+06	+	++
96	NPLP1-19	LSDHPTETDDISLKETAQDDLKEEMSQITKDDMEHTRT -OH	4403.01	467,2285	2	-2.8	5.01E+04	+	++
97	NPLP1-19	LSDHPTETDDISLKETAQDDLKEEMSQITKDDMEHTRT -OH	4403.01	564,9258	3	-3.1	2.57E+05	+	++
98	NPLP1-20	MAREELE -OH	877.41	439,2069	2	-2.6	3.02E+06	-	+

<i>NVP-like</i>									
99	NVP-1	LPTSLLEDMDKAQFHTPVRTNKV-OH	2640.38	660,8516	4	1.3	3.11E+06	+	+
100	NVP-2	AQEFIMFGNQNRAINNFGSTKNE-OH	2758.30	925.4376	3	1.1	9.22E+05	+	+
101	NVP-5 ⁷⁰⁻⁷⁷	EVAWPRQH-OH	1022.52	341.5095	3	-2.5	6.76E+05	-	+
102	NVP-7	FGRDSIPPVMPFQEEYADEIPL-OH	2550.22	874.9180	2	-1.4	1.40E+08	+	+
103	NVP-7	FGRDSIPPVMPFQEEYADEIPL-OH	2550.22	410,7081	2	0.4	3.17E+06	+	+
<i>Orcokinin A</i>									
104	Orcomyotropin-like	NLDSLGVTFGSS-OH	1311.61	667,2977	2	-0.1	1.92E+05	-	+
105	Orc-1	NMDEIDRAGDFTFV-OH	1629.72	815,3645	2	0.3	1.97E+06	+	+
106	Orc-PP1 ¹⁻²⁸	LPRPEPAENSLFKGERNLGLGGHLLR-OH	3090.66	572,5515	4	0.5	2.61E+06	-	+
107	Orc-PP1 ¹⁻²⁷	LPRPEPAENSLFKGERNLGLGGHLL-OH	2934.56	557,3074	2	2.3	7.45E+06	-	+
108	Orc-PP1 ²⁹⁻⁴⁵	DLESALRENPMVYERPS-OH	2005.96	1003,4872	2	1.2	1.91E+06	(+)	+
109	Orc-PP2	NSVDPSET-OH	848.36	424.6838	2	-3.4	5.68E+06	+	+
110	Orc-PP3 (Q)	QLYNVGLADRAV-NH ₂	1317.73	659,8596	2	0.4	2.24E+07	+	+
111	Orc-PP5	NFVPSHYEMYGNYPVPFF-OH	2322.03	1161,5211	2	1.1	2.65E+06	+	+
<i>PDF</i>									
112	PDF	NSEIINSLGLPKVLNDA-NH ₂	1909.07	955,0456	2	4.5	4.74E+04	-	+
<i>RYamide</i>									
113	RYamide	AESRFVIGSRY-NH ₂	1283.68	642,3459	2	-0.7	9.05E+05	+	+
<i>SIFamide</i>									
114	SIFamide	SYKKPPFNGSIF-NH ₂	1383.74	692,3764	2	2.6	1.82E+08	+	+
<i>sNPF</i>									
115	sNPF	DNRTPLRLRF-NH ₂	1414.80	354,4561	4	0.1	8.13E+06	+	+
116	sNPF-PP2	AAYPERVYKMEE-OH	1485.70	500,5789	3	1.7	1.93E+05	+	+
117	sNPF-PP3	SVPLFPLEE-OH	1030.55	533,7747	2	-0.8	8.68E+05	-	+
118	sNPF-PP4	LDQSRMDYFSN-OH	1375.59	631.2778	2	-2.7	3.29E+05	+	+
119	sNPF-PP3+4	SVPLFPLEERRLDQSRMDYFSN-OH	2699.32	571,6502	3	1.8	6.97E+06	+	+
120	sNPF-PP3+4	SVPLFPLEERRLDQSRMDYFSN-OH	2699.32	510,2159	2	-0.5	6.06E+04	+	+
<i>Sulfakinin</i>									
121	SK-1 (non-sulf.)	pQFNDYGHMRF-NH ₂	1296.58	648,7785	2	-6.2	8.66E+05	+	+
122	SK-1 (sulf.)	pQFNDY(SO ₃ H)GHMRF-NH ₂	1376.58	688,7593	2	-2.4	4.00E+06	+	+
123	SK-1 (Q, sulf.)	QFNDY(SO ₃ H)GHMRF-NH ₂	1393.58	697,2783	2	-0.6	1.41E+06	-	+
124	SK-2 (non-sulf.)	EGTDEKFEDYGYLRF-NH ₂	1867.85	604,7910	2	1.0	5.18E+04	+	+
125	SK-2 (sulf.)	EGTDEKFEDY(SO ₃ H)GYLRF-NH ₂	1947.85	644,7722	2	5.4	1.45E+05	-	+
<i>Tachykinin-RP</i>									
126	TKRP-1	pQERRQLGFLGVR-NH ₂	1440.84	480,9451	3	1.7	1.17E+08	+	+
127	TKRP-2	APTLGFQGLR-NH ₂	1058.61	543,8052	2	-2.2	1.25E+05	+	+
128	TKRP-3	APPMGFQGVR-NH ₂	1058.56	529,7814	2	-0.7	1.82E+07	+	+
129	TKRP-4	GPTMGFVGMR-NH ₂	1051.52	526,2629	2	1.0	8.38E+06	+	+
130	TKRP-5,6	APASGFFGMR-NH ₂	1039.51	520,2604	2	-0.5	3.84E+07	+	+
131	TKRP-7	GPSNAGFFGMR-NH ₂	1139.54	578,2703	2	-2.6	1.73E+07	+	+
132	TKRP-8	GPSGFLGLR-NH ₂	902.52	465,7642	2	6.1	1.76E+05	+	+
133	TKRP-PP1 + TKRP-2	DGTDEEFKRAPTLGFQGLR-NH ₂	2136.08	712,7001	3	1.2	2.01E+06	-	+