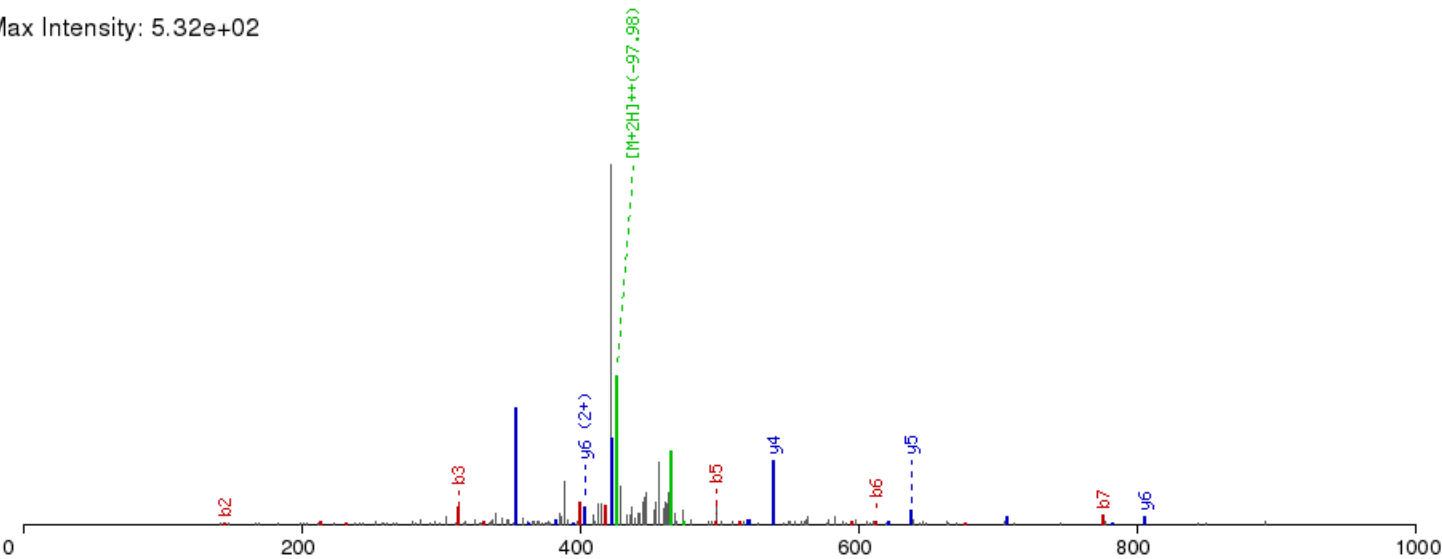


SGS(+79.97)VSNYR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 475.192, Calc. m/z: 475.192
Data File: ppeptidemix3_CID_Orbi, Scans: 1126 - 1126

Max Intensity: 5.32e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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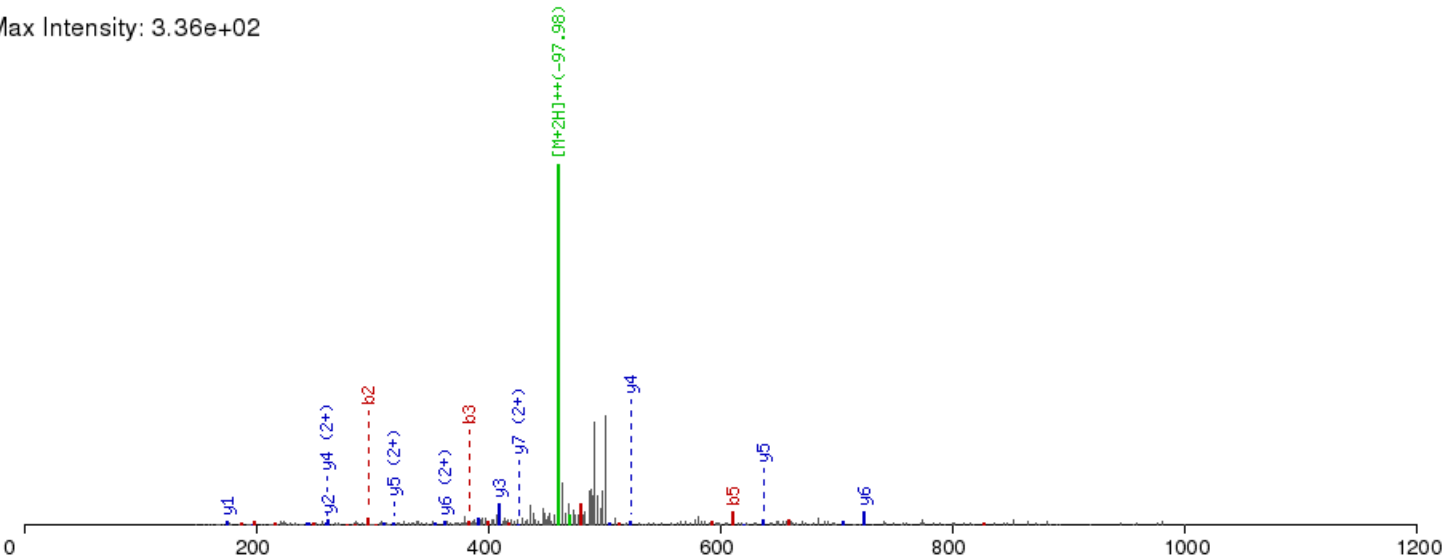
	S	G	S	V	S	N	Y	R	
	1	2	3	4	5	6	7	8	
a		117.07							a
b		145.06	312.06	411.13	498.16	612.20	775.27		b
b-79.97			232.09	331.16	418.19	532.24	695.30		b-79.97
b-97.98			214.08	313.15	400.18	514.23	677.29		b-97.98
y		862.35	805.32	638.33	539.26	452.23	338.18	175.12	y
y-79.97		782.38	725.36						y-79.97
y-97.98		764.37	707.35						y-97.98
y (2+)		431.68	403.17	319.67	270.13	226.62	169.59	88.06	y (2+)
y-79.97 (2+)		391.69	363.18						y-79.97 (2+)
y-97.98 (2+)		382.69	354.18						y-97.98 (2+)
	S	G	S	V	S	N	Y	R	
	8	7	6	5	4	3	2	1	

S(+79.97)QSDIFSR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 510.213, Calc. m/z: 510.212
Data File: ppeptidemix1_CID_Orbi, Scans: 1941 - 1941

Max Intensity: 3.36e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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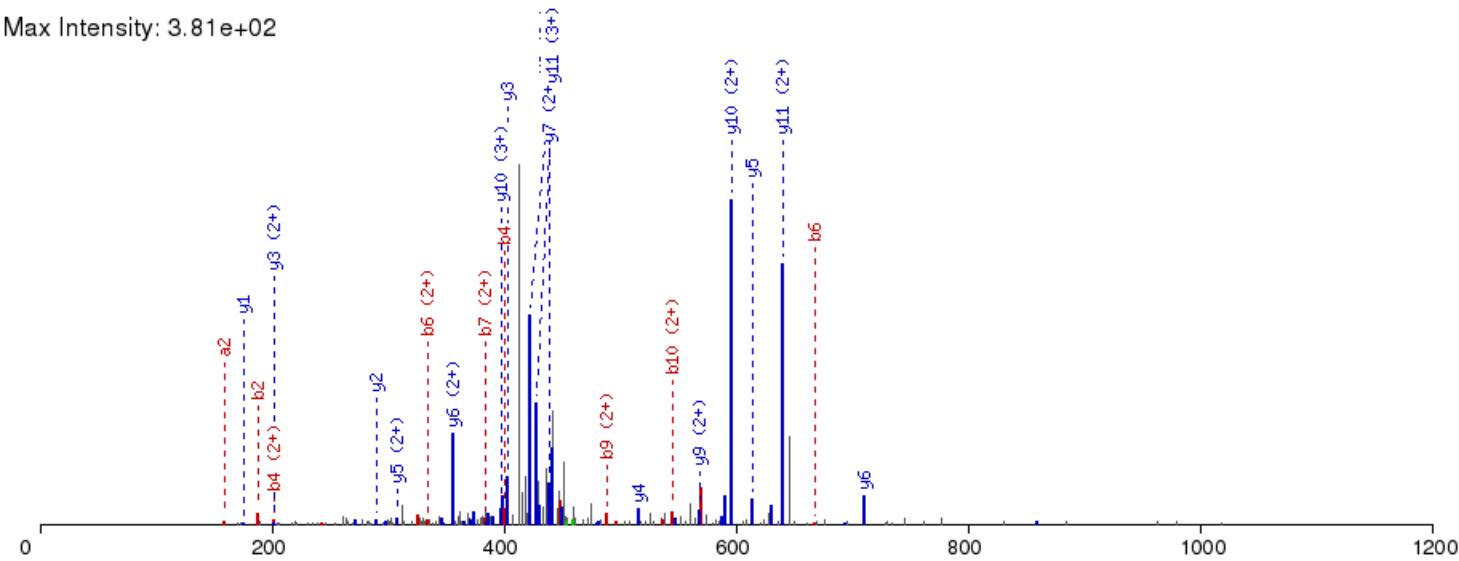
	S	Q	S	D	I	F	S	R	
	1	2	3	4	5	6	7	8	
a		268.07							a
a-79.97		188.10							a-79.97
a-97.98		170.09							a-97.98
b		296.06	383.10	498.12	611.21	758.28	845.31		b
b-79.97		216.10	303.13	418.16	531.24	678.31	765.34		b-79.97
b-97.98		198.09	285.12	400.15	513.23	660.30	747.33		b-97.98
y		852.42	724.36	637.33	522.30	409.22	262.15	175.12	y
y (2+)		426.71	362.68	319.17	261.66	205.11	131.58	88.06	y (2+)
	S	Q	S	D	I	F	S	R	
	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLLDR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.901
Data File: ppeptidemix5_CID_Orbi, Scans: 1414 - 1414

Max Intensity: 3.81e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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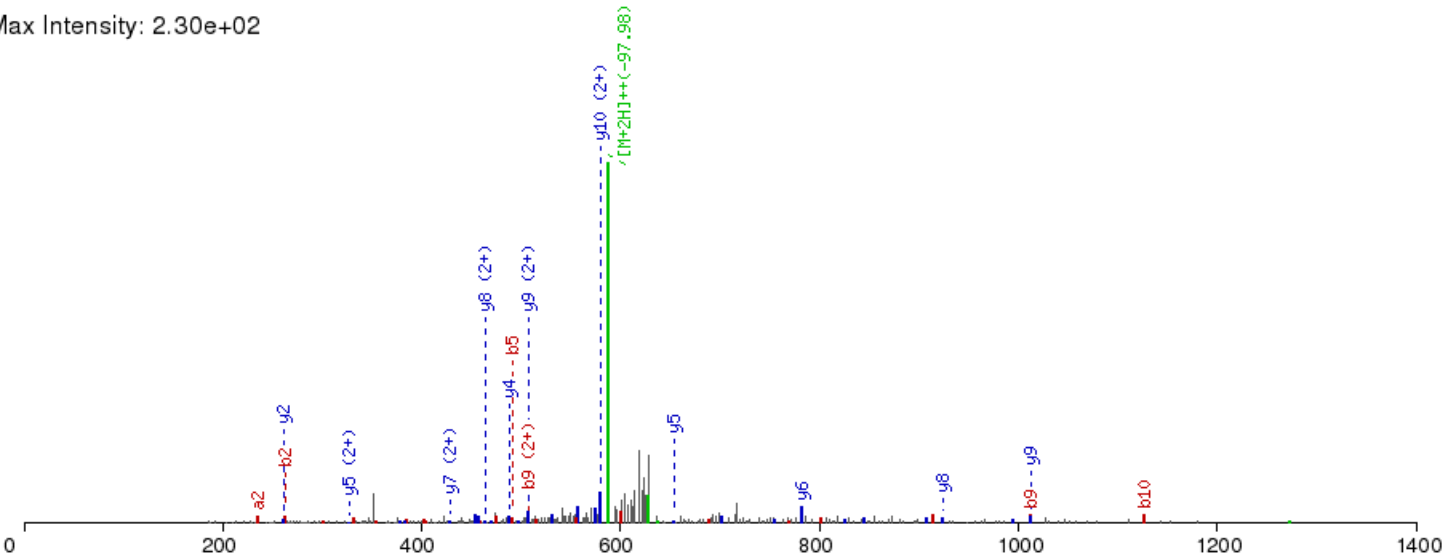
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.822
Data File: ppeptidemix1_CID_Orbi, Scans: 1925 - 1925

Max Intensity: 2.30e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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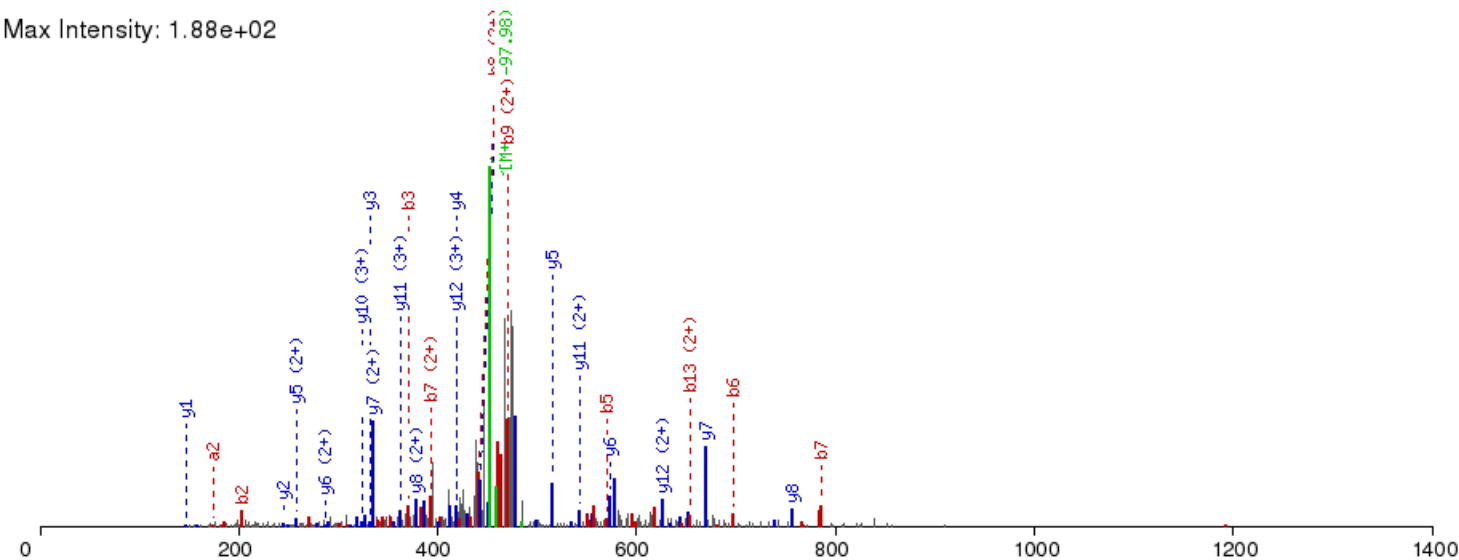
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

SNS(+79.97)ISKSPGPSSPK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 484.896, Calc. m/z: 484.897
Data File: ppeptidemix4_CID_Orbi, Scans: 993 - 993

Max Intensity: 1.88e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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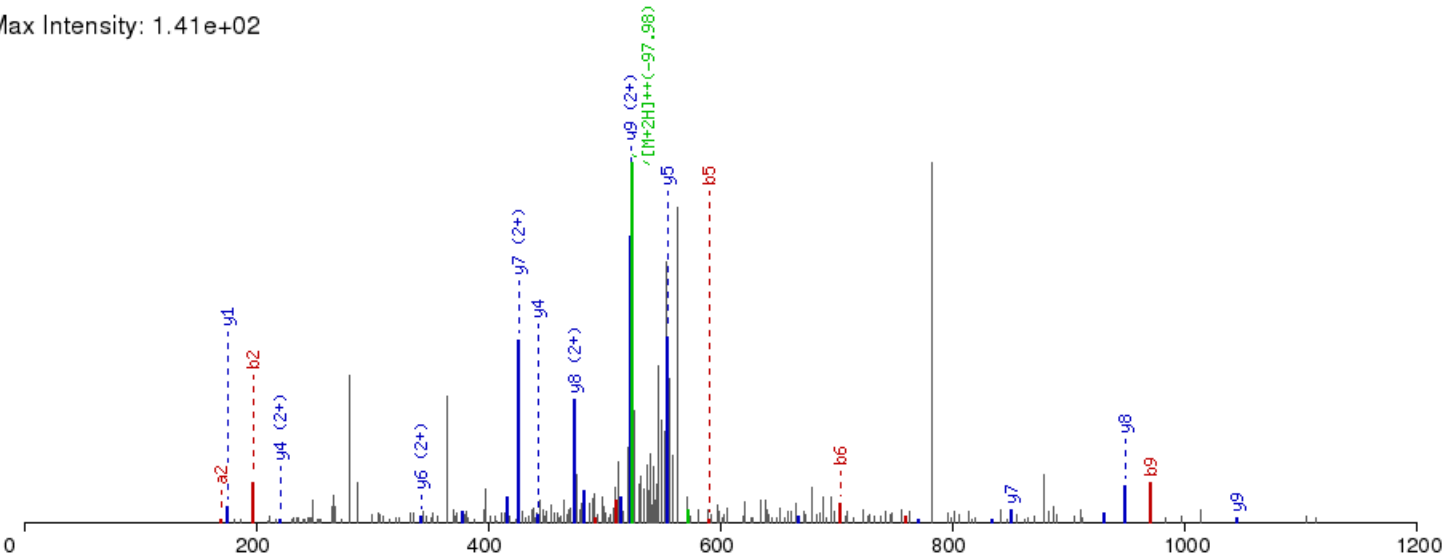
	S	N	S	I	S	K	S	P	G	P	S	S	P	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		174.09													a
b		202.08	369.08	482.16	569.20	697.29	784.32	881.38	938.40	1035.45	1122.48	1209.51	1306.57		b
b-79.97			289.11	402.20	489.23	617.33	704.36	801.41	858.43	955.48	1042.52	1129.55	1226.60		b-79.97
b-97.98			271.10	384.19	471.22	599.31	686.35	783.40	840.42	937.47	1024.51	1111.54	1208.59		b-97.98
b (2+)						349.15	392.67	441.19	469.70	518.23	561.74	605.26	653.79		b (2+)
b-79.97 (2+)						309.17	352.68	401.21	429.72	478.25	521.76	565.28	613.80		b-79.97 (2+)
b-97.98 (2+)						300.16	343.68	392.20	420.71	469.24	512.76	556.27	604.80		b-97.98 (2+)
y		1365.64	1251.60	1084.60	971.52	884.48	756.39	669.36	572.30	515.28	418.23	331.20	244.17	147.11	y
y-79.97		1285.67	1171.63												y-79.97
y-97.98		1267.66	1153.62												y-97.98
y (2+)		683.32	626.30	542.80	486.26	442.75	378.70	335.18	286.66	258.14	209.62	166.10	122.59	74.06	y (2+)
y-79.97 (2+)		643.34	586.32												y-79.97 (2+)
y-97.98 (2+)		634.34	577.31												y-97.98 (2+)
y (3+)		455.89	417.87	362.20	324.51	295.50									y (3+)
y-79.97 (3+)		429.23	391.22												y-79.97 (3+)
y-97.98 (3+)		423.23	385.21												y-97.98 (3+)
	S	N	S	I	S	K	S	P	G	P	S	S	P	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

VPPS(+79.97)ELPGLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 572.792, Calc. m/z: 572.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2240 - 2240

Max Intensity: 1.41e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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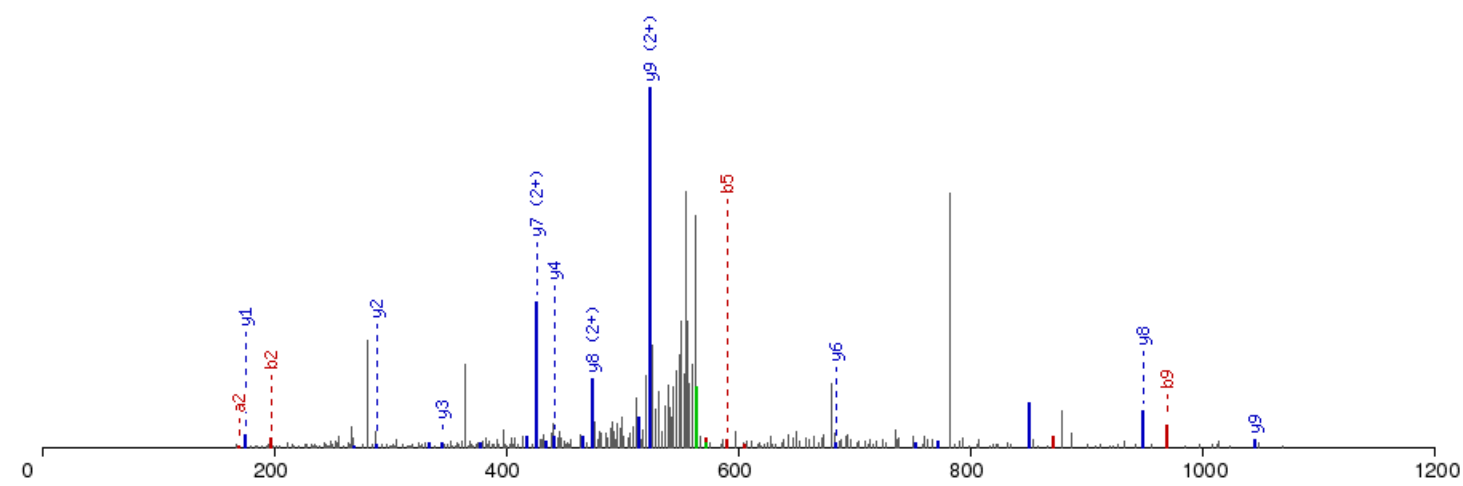
	V	P	P	S	E	L	P	G	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		169.13									a
b		197.13	294.18	461.18	590.22	703.31	800.36	857.38	970.46		b
b-79.97				381.21	510.26	623.34	720.39	777.41	890.50		b-79.97
b-97.98				363.20	492.25	605.33	702.38	759.40	872.49		b-97.98
y		1045.51	948.45	851.40	684.40	555.36	442.28	345.22	288.20	175.12	y
y-79.97		965.54	868.49	771.44							y-79.97
y-97.98		947.53	850.48	753.43							y-97.98
y (2+)		523.26	474.73	426.20	342.71	278.18	221.64	173.12	144.61	88.06	y (2+)
y-79.97 (2+)		483.27	434.75	386.22							y-79.97 (2+)
y-97.98 (2+)		474.27	425.74	377.22							y-97.98 (2+)
	V	P	P	S	E	L	P	G	L	R	
	10	9	8	7	6	5	4	3	2	1	

VPPS(+79.97)ELPGLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 572.792, Calc. m/z: 572.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2263 - 2263

Max Intensity: 1.52e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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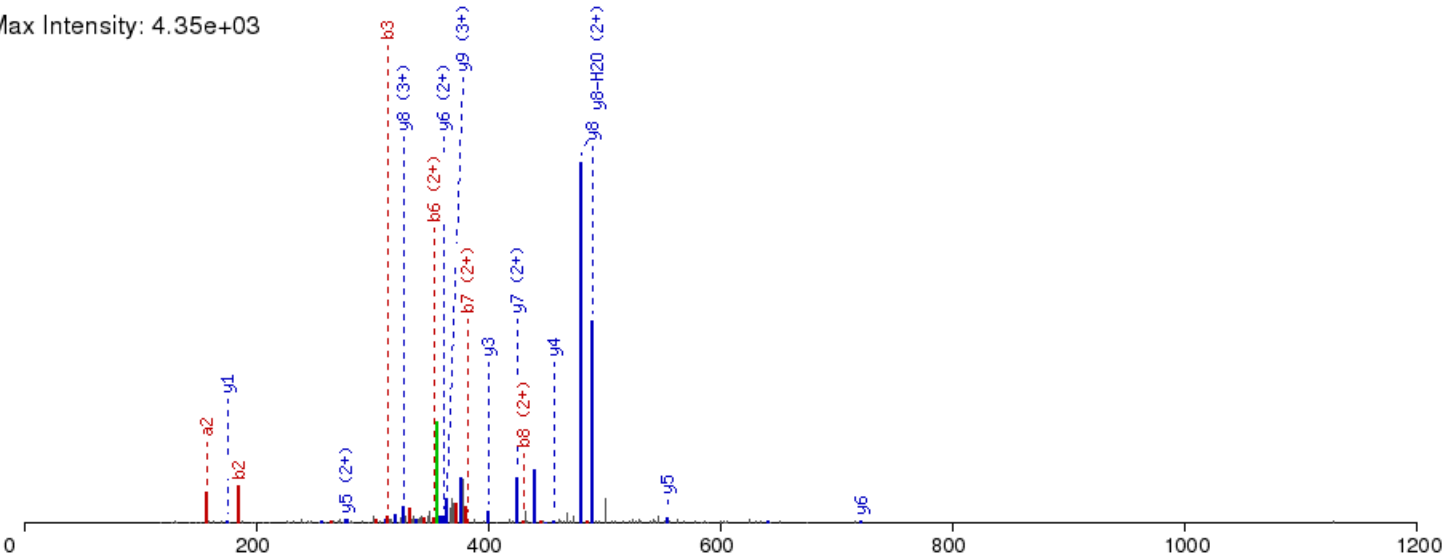
	V	P	P	S	E	L	P	G	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		169.13									a
b		197.13	294.18	461.18	590.22	703.31	800.36	857.38	970.46		b
b-79.97				381.21	510.26	623.34	720.39	777.41	890.50		b-79.97
b-97.98				363.20	492.25	605.33	702.38	759.40	872.49		b-97.98
y		1045.51	948.45	851.40	684.40	555.36	442.28	345.22	288.20	175.12	y
y-79.97		965.54	868.49	771.44							y-79.97
y-97.98		947.53	850.48	753.43							y-97.98
y (2+)		523.26	474.73	426.20	342.71	278.18	221.64	173.12	144.61	88.06	y (2+)
y-79.97 (2+)		483.27	434.75	386.22							y-79.97 (2+)
y-97.98 (2+)		474.27	425.74	377.22							y-97.98 (2+)
	V	P	P	S	E	L	P	G	L	R	
	10	9	8	7	6	5	4	3	2	1	

ALQKS(+79.97)PGPQR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 387.864, Calc. m/z: 387.867
Data File: ppeptidemix2_CID_Orbi, Scans: 928 - 928

Max Intensity: 4.35e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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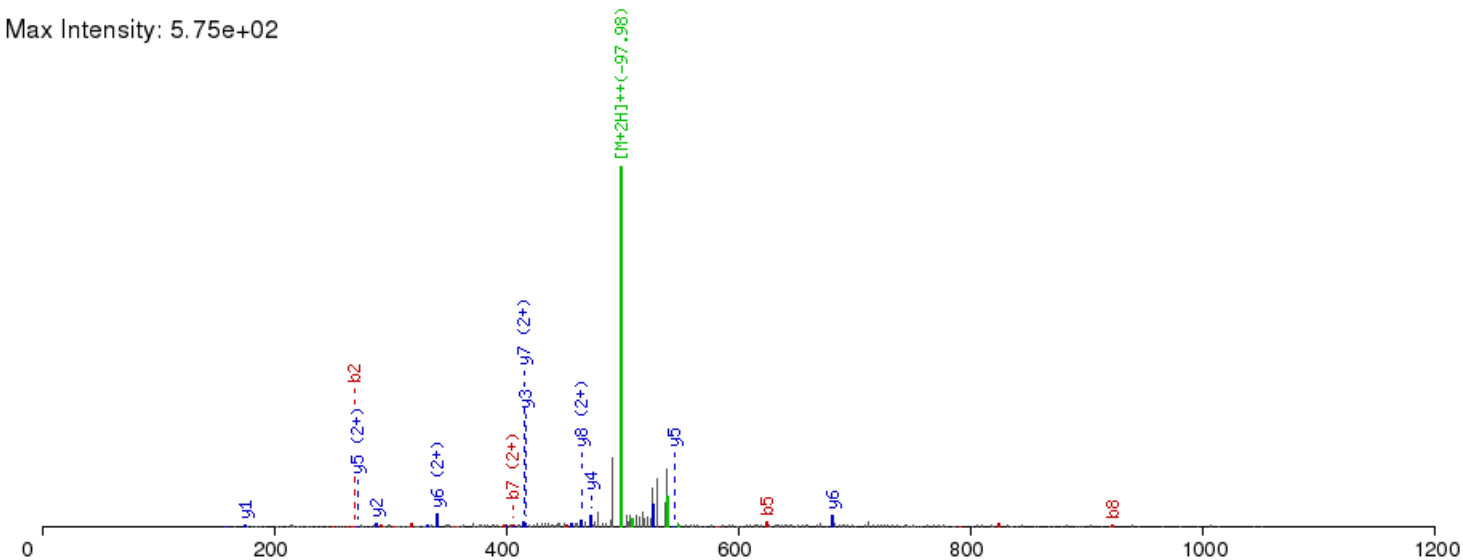
	A	L	Q	K	S	P	G	P	Q	R	
	1	2	3	4	5	6	7	8	9	10	
a		157.13									a
b		185.13	313.19	441.28	608.28	705.33	762.35	859.41	987.47		b
b-79.97					528.31	625.37	682.39	779.44	907.50		b-79.97
b-97.98					510.30	607.36	664.38	761.43	889.49		b-97.98
b (2+)				221.14	304.64	353.17	381.68	430.21	494.24		b (2+)
b-79.97 (2+)					264.66	313.19	341.70	390.22	454.25		b-79.97 (2+)
b-97.98 (2+)					255.66	304.18	332.69	381.22	445.25		b-97.98 (2+)
y		1090.54	977.46	849.40	721.30	554.30	457.25	400.23	303.18	175.12	y
y-79.97		1010.57	897.49	769.43	641.34						y-79.97
y-97.98		992.56	879.48	751.42	623.33						y-97.98
y (2+)		545.77	489.23	425.20	361.16	277.66	229.13	200.62	152.09	88.06	y (2+)
y-79.97 (2+)		505.79	449.25	385.22	321.17						y-79.97 (2+)
y-97.98 (2+)		496.79	440.24	376.21	312.17						y-97.98 (2+)
y (3+)		364.19	326.49	283.80							y (3+)
y-79.97 (3+)		337.53	299.83	257.15							y-79.97 (3+)
y-97.98 (3+)		331.53	293.83	251.15							y-97.98 (3+)
	A	L	Q	K	S	P	G	P	Q	R	
	10	9	8	7	6	5	4	3	2	1	

S(+79.97)TFHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix3_CID_Orbi, Scans: 1570 - 1570

Max Intensity: 5.75e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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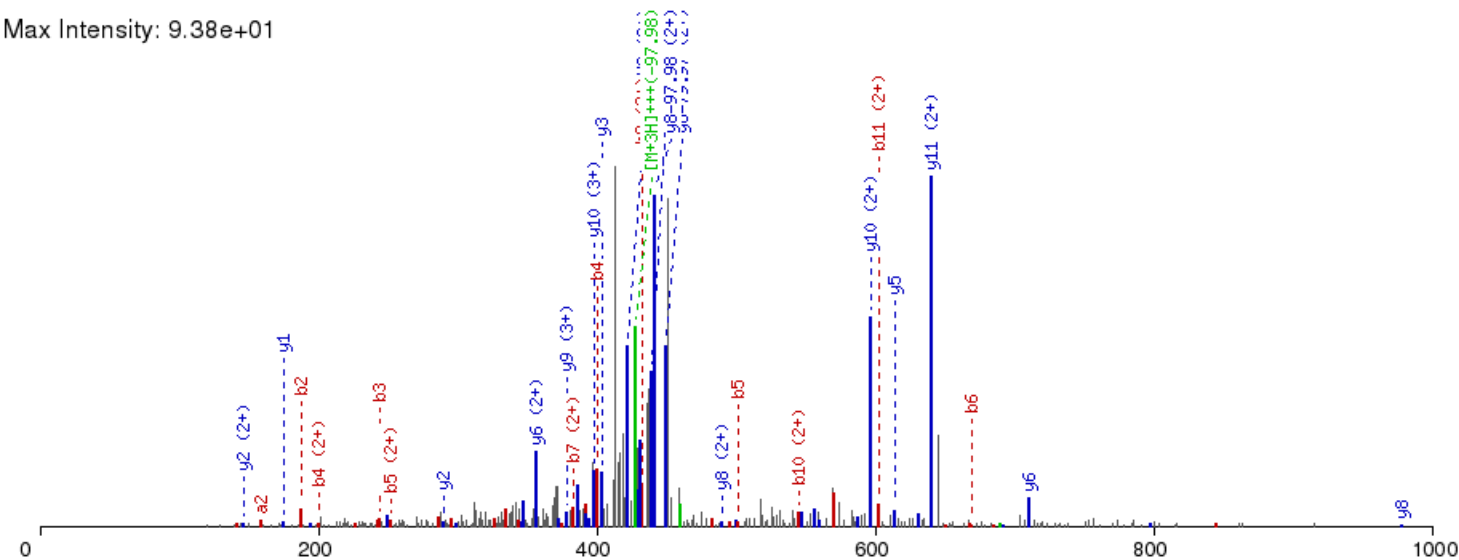
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		929.50	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y (2+)		465.25	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.901, Calc. m/z: 459.901
Data File: ppeptidemix5_CID_Orbi, Scans: 1383 - 1383

Max Intensity: 9.38e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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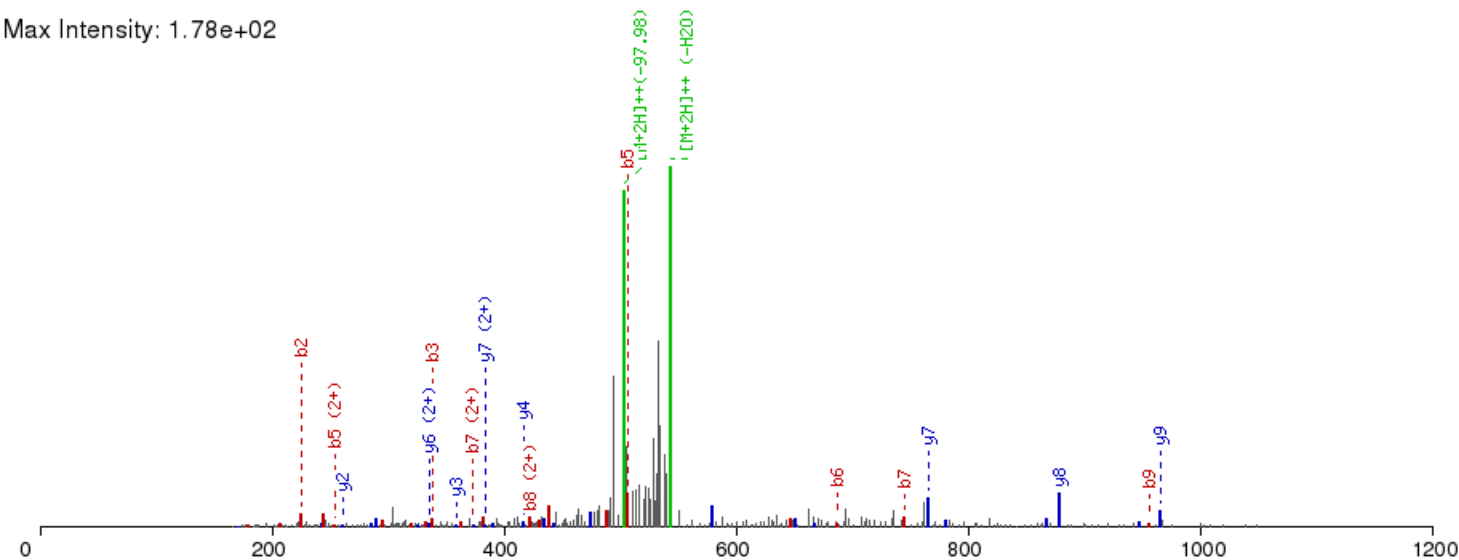
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

HSLPAT(+79.97)GVLK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 551.786, Calc. m/z: 551.787
Data File: ppeptidemix1_CID_Orbi, Scans: 1844 - 1844

Max Intensity: 1.78e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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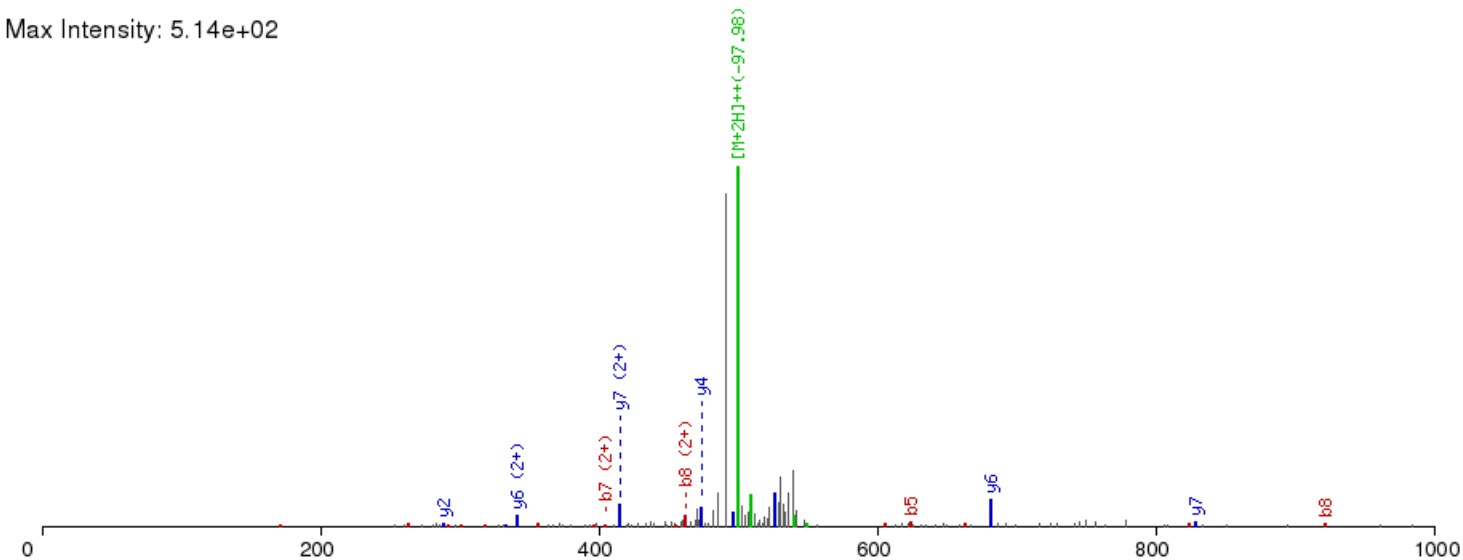
	H	S	L	P	A	T	G	V	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		197.10									a
a (2+)		99.06									a (2+)
b		225.10	338.18	435.24	506.27	687.29	744.31	843.38	956.46		b
b-79.97						607.32	664.34	763.41	876.49		b-79.97
b-97.98						589.31	646.33	745.40	858.48		b-97.98
b (2+)		113.05	169.59	218.12	253.64	344.15	372.66	422.19	478.73		b (2+)
b-79.97 (2+)						304.16	332.67	382.21	438.75		b-79.97 (2+)
b-97.98 (2+)						295.16	323.67	373.20	429.75		b-97.98 (2+)
y		965.51	878.47	765.39	668.34	597.30	416.29	359.27	260.20	147.11	y
y-79.97		885.54	798.51	685.42	588.37	517.33					y-79.97
y-97.98		867.53	780.50	667.41	570.36	499.32					y-97.98
y (2+)		483.26	439.74	383.20	334.67	299.15	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		443.27	399.76	343.22	294.69	259.17					y-79.97 (2+)
y-97.98 (2+)		434.27	390.75	334.21	285.68	250.17					y-97.98 (2+)
	H	S	L	P	A	T	G	V	L	K	
	10	9	8	7	6	5	4	3	2	1	

ST(+79.97)FHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix2_CID_Orbi, Scans: 1424 - 1424

Max Intensity: 5.14e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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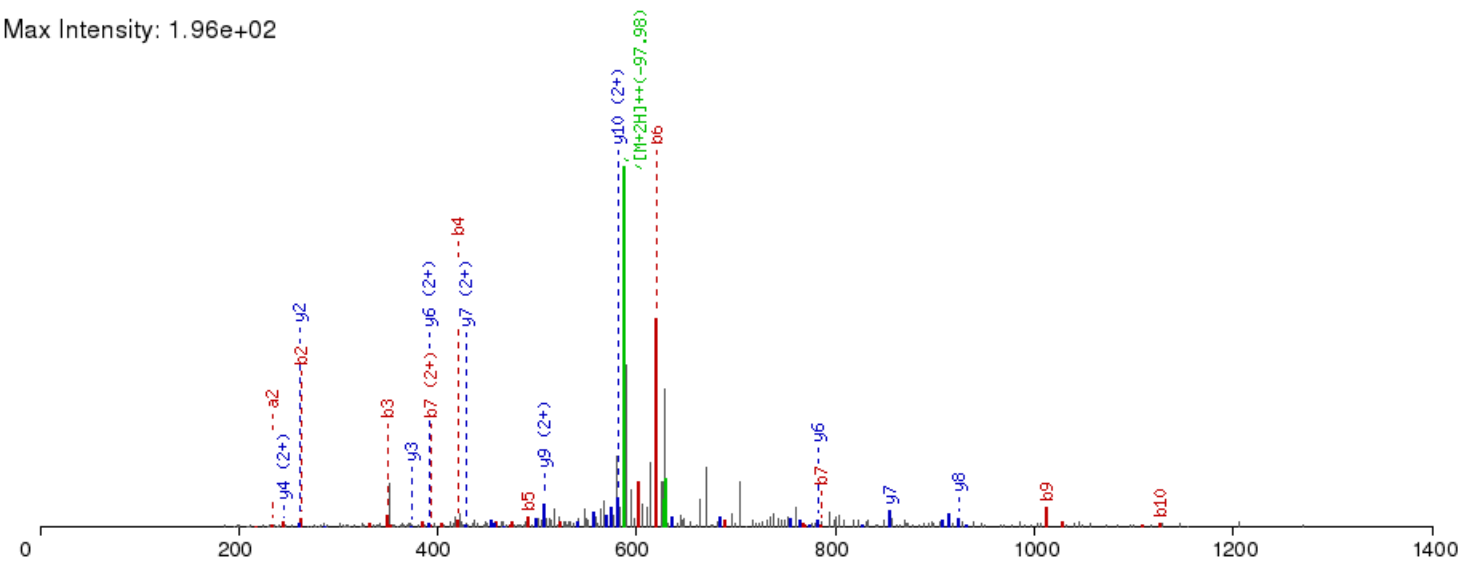
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		1009.46	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y-79.97		929.50								y-79.97
y-97.98		911.48								y-97.98
y (2+)		505.23	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y-79.97 (2+)		465.25								y-79.97 (2+)
y-97.98 (2+)		456.25								y-97.98 (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.822
Data File: ppeptidemix1_CID_Orbi, Scans: 1929 - 1929

Max Intensity: 1.96e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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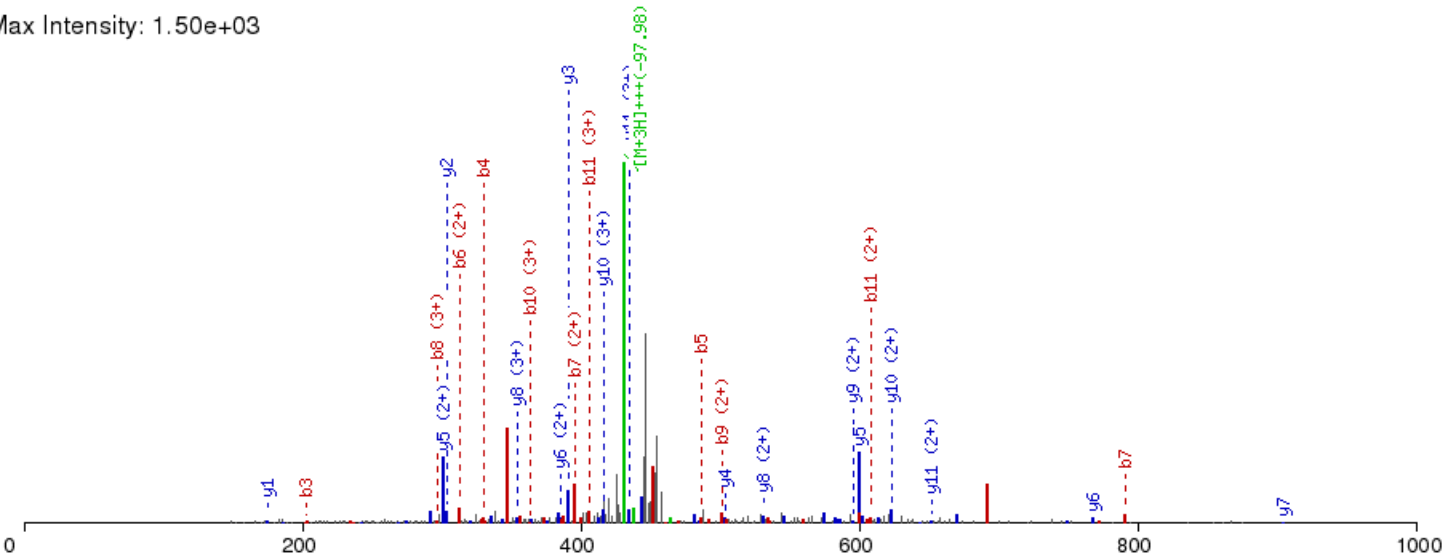
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

SGGQRHS(+79.97)PLSQR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 463.884, Calc. m/z: 463.887
Data File: ppeptidemix5_CID_Orbi, Scans: 899 - 899

Max Intensity: 1.50e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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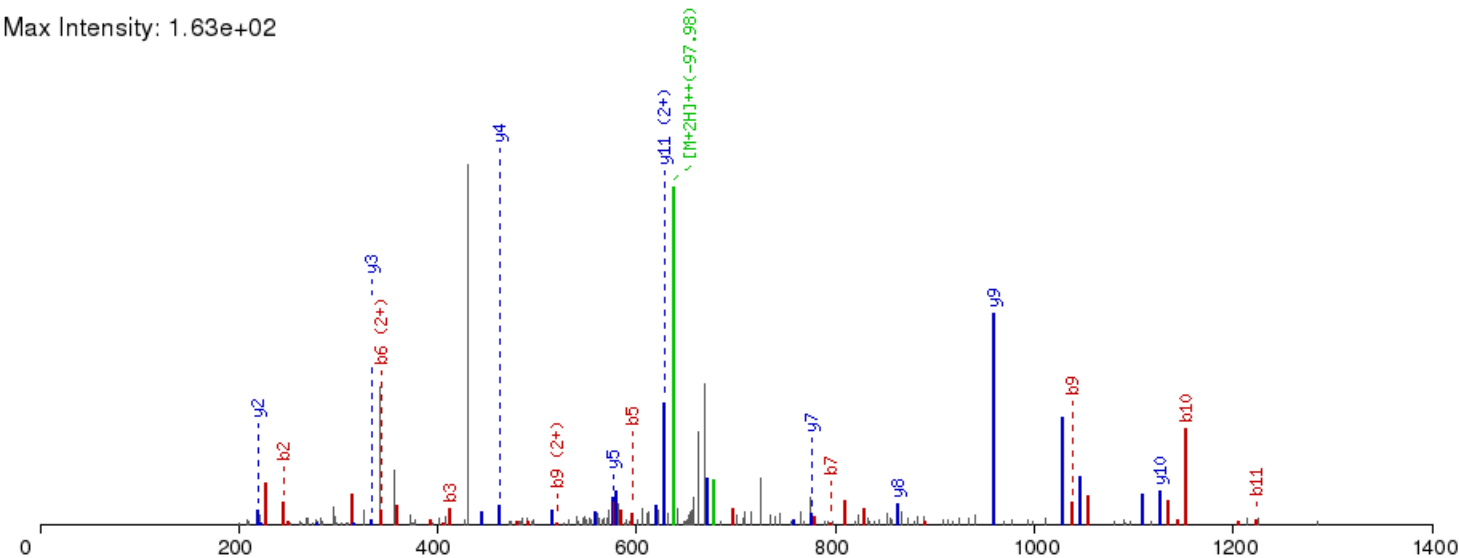
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		117.07											a
b		145.06	202.08	330.14	486.24	623.30	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97							710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98							692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					243.62	312.15	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)							355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)							346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
b (3+)						208.44	264.10	296.46	334.15	363.16	405.85		b (3+)
b-79.97 (3+)							237.45	269.80	307.49	336.51	379.19		b-79.97 (3+)
b-97.98 (3+)							231.45	263.80	301.49	330.50	373.19		b-97.98 (3+)
y		1302.61	1245.58	1188.56	1060.50	904.40	767.34	600.35	503.29	390.21	303.18	175.12	y
y-79.97		1222.64	1165.62	1108.60	980.54	824.44	687.38						y-79.97
y-97.98		1204.63	1147.61	1090.59	962.53	806.43	669.37						y-97.98
y (2+)		651.81	623.30	594.79	530.76	452.71	384.18	300.68	252.15	195.61	152.09	88.06	y (2+)
y-79.97 (2+)		611.82	583.31	554.80	490.77	412.72	344.19						y-79.97 (2+)
y-97.98 (2+)		602.82	574.31	545.80	481.77	403.72	335.19						y-97.98 (2+)
y (3+)		434.87	415.87	396.86	354.17	302.14							y (3+)
y-79.97 (3+)		408.22	389.21	370.20	327.52	275.48							y-79.97 (3+)
y-97.98 (3+)		402.21	383.21	364.20	321.51	269.48							y-97.98 (3+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

DKS(+79.97)PSSLLEDAK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 685.316, Calc. m/z: 685.317
Data File: ppeptidemix1_CID_Orbi, Scans: 1861 - 1861

Max Intensity: 1.63e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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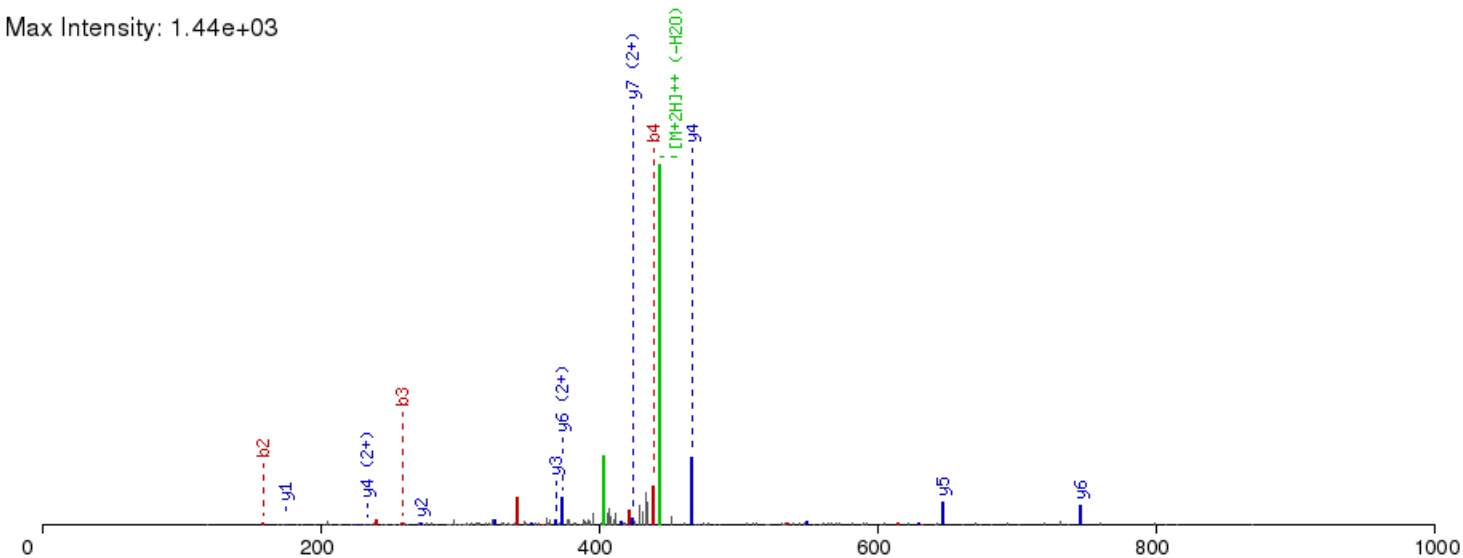
	D	K	S	P	S	S	L	L	E	D	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.13											a
a (2+)		108.57											a (2+)
b		244.13	411.13	508.18	595.21	682.24	795.33	908.41	1037.46	1152.48	1223.52		b
b-79.97			331.16	428.21	515.25	602.28	715.36	828.45	957.49	1072.52	1143.55		b-79.97
b-97.98			313.15	410.20	497.24	584.27	697.35	810.44	939.48	1054.51	1125.54		b-97.98
b (2+)		122.57	206.07	254.59	298.11	341.63	398.17	454.71	519.23	576.74	612.26		b (2+)
b-79.97 (2+)			166.08	214.61	258.13	301.64	358.18	414.73	479.25	536.76	572.28		b-79.97 (2+)
b-97.98 (2+)			157.08	205.61	249.12	292.64	349.18	405.72	470.24	527.76	563.27		b-97.98 (2+)
y		1254.60	1126.50	959.50	862.45	775.42	688.39	575.30	462.22	333.18	218.15	147.11	y
y-79.97		1174.63	1046.54										y-79.97
y-97.98		1156.62	1028.53										y-97.98
y (2+)		627.80	563.76	480.26	431.73	388.21	344.70	288.16	231.61	167.09	109.58	74.06	y (2+)
y-79.97 (2+)		587.82	523.77										y-79.97 (2+)
y-97.98 (2+)		578.81	514.77										y-97.98 (2+)
	D	K	S	P	S	S	L	L	E	D	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.718
Data File: ppeptidemix3_CID_Orbi, Scans: 1082 - 1082

Max Intensity: 1.44e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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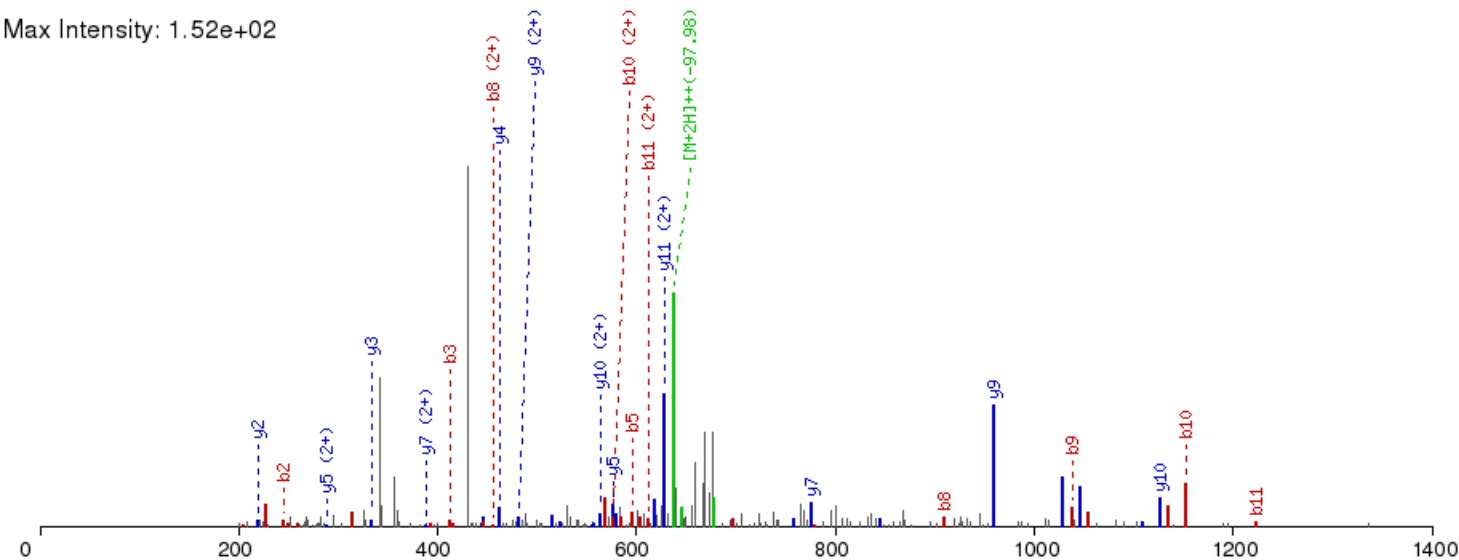
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

DKS(+79.97)PSSLLEDAK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 685.316, Calc. m/z: 685.317
Data File: ppeptidemix1_CID_Orbi, Scans: 1896 - 1896

Max Intensity: 1.52e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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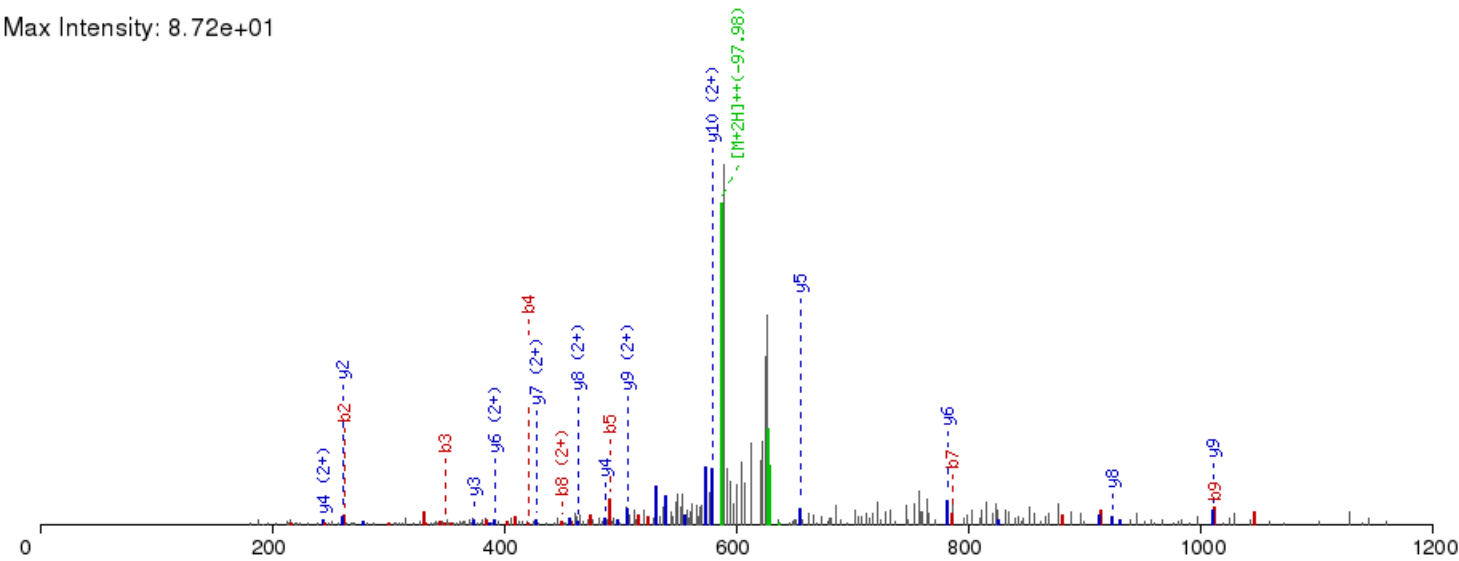
	D	K	S	P	S	S	L	L	E	D	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.13											a
a (2+)		108.57											a (2+)
b		244.13	411.13	508.18	595.21	682.24	795.33	908.41	1037.46	1152.48	1223.52		b
b-79.97			331.16	428.21	515.25	602.28	715.36	828.45	957.49	1072.52	1143.55		b-79.97
b-97.98			313.15	410.20	497.24	584.27	697.35	810.44	939.48	1054.51	1125.54		b-97.98
b (2+)		122.57	206.07	254.59	298.11	341.63	398.17	454.71	519.23	576.74	612.26		b (2+)
b-79.97 (2+)			166.08	214.61	258.13	301.64	358.18	414.73	479.25	536.76	572.28		b-79.97 (2+)
b-97.98 (2+)			157.08	205.61	249.12	292.64	349.18	405.72	470.24	527.76	563.27		b-97.98 (2+)
y		1254.60	1126.50	959.50	862.45	775.42	688.39	575.30	462.22	333.18	218.15	147.11	y
y-79.97		1174.63	1046.54										y-79.97
y-97.98		1156.62	1028.53										y-97.98
y (2+)		627.80	563.76	480.26	431.73	388.21	344.70	288.16	231.61	167.09	109.58	74.06	y (2+)
y-79.97 (2+)		587.82	523.77										y-79.97 (2+)
y-97.98 (2+)		578.81	514.77										y-97.98 (2+)
	D	K	S	P	S	S	L	L	E	D	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.820, Calc. m/z: 636.822
Data File: ppeptidemix1_CID_Orbi, Scans: 1954 - 1954

Max Intensity: 8.72e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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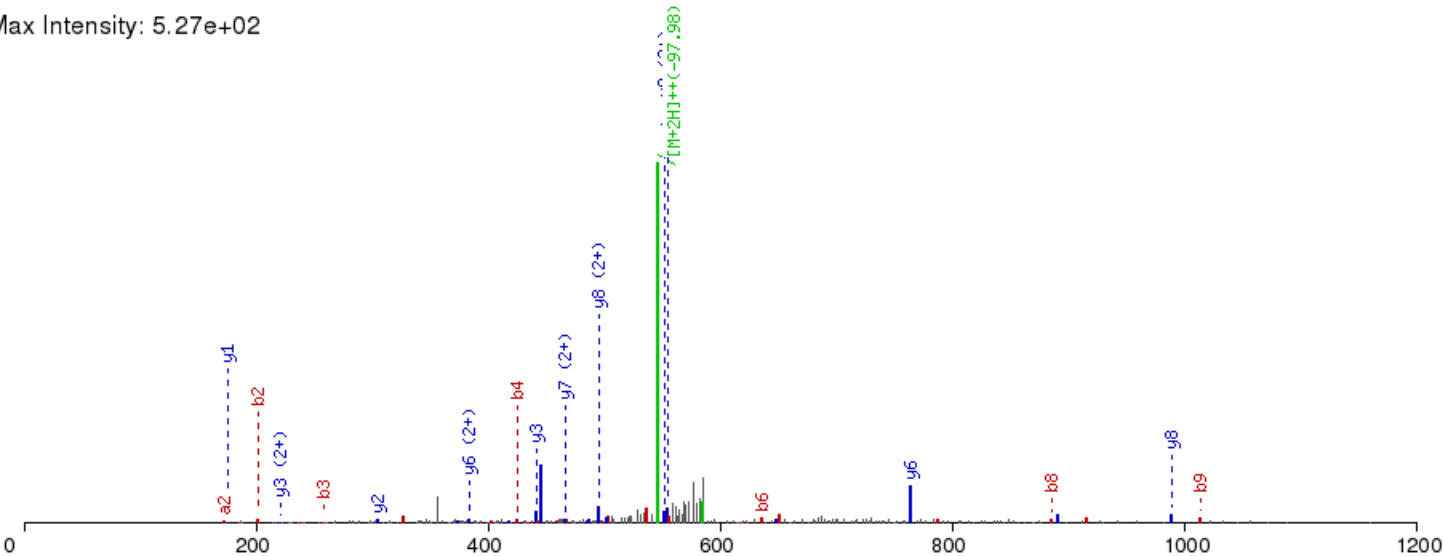
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

SLGS(+79.97)PLLHER

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 594.792, Calc. m/z: 594.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2116 - 2116

Max Intensity: 5.27e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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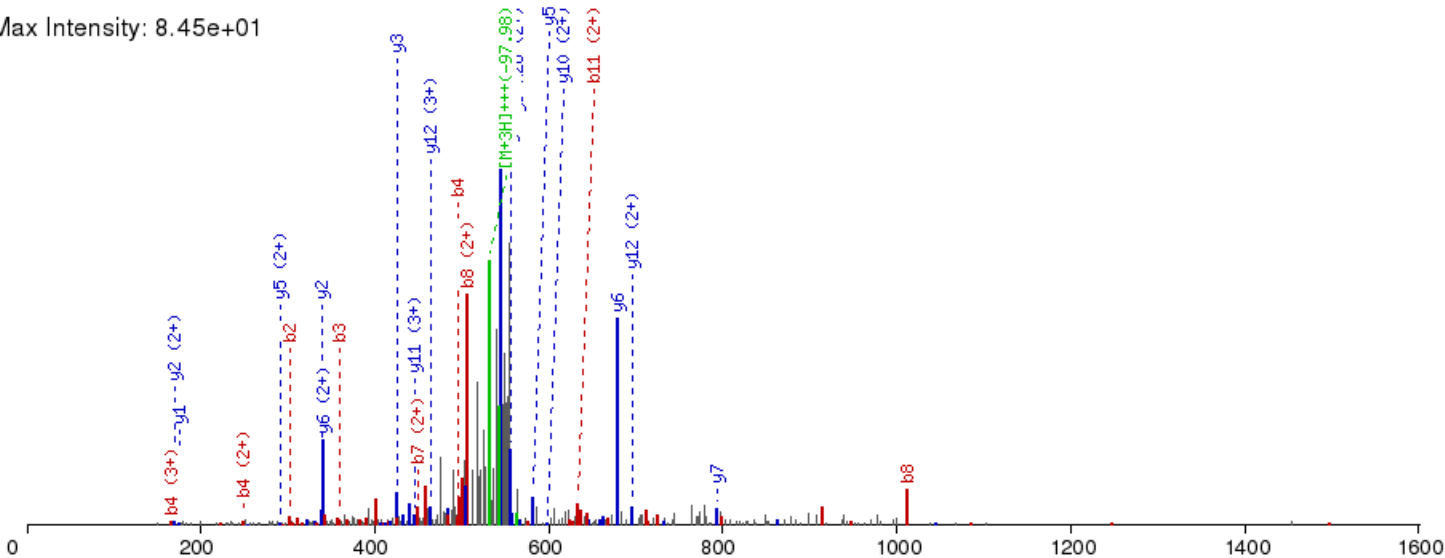
	S	L	G	S	P	L	L	H	E	R	
	1	2	3	4	5	6	7	8	9	10	
a		173.13									a
b		201.12	258.14	425.14	522.20	635.28	748.36	885.42	1014.47		b
b-79.97				345.18	442.23	555.31	668.40	805.46	934.50		b-79.97
b-97.98				327.17	424.22	537.30	650.39	787.45	916.49		b-97.98
b (2+)								443.22	507.74		b (2+)
b-79.97 (2+)								403.23	467.75		b-79.97 (2+)
b-97.98 (2+)								394.23	458.75		b-97.98 (2+)
y		1101.55	988.46	931.44	764.44	667.39	554.30	441.22	304.16	175.12	y
y-79.97		1021.58	908.49	851.47							y-79.97
y-97.98		1003.57	890.48	833.46							y-97.98
y (2+)		551.28	494.73	466.22	382.72	334.20	277.66	221.11	152.58	88.06	y (2+)
y-79.97 (2+)		511.29	454.75	426.24							y-79.97 (2+)
y-97.98 (2+)		502.29	445.75	417.24							y-97.98 (2+)
	S	L	G	S	P	L	L	H	E	R	
	10	9	8	7	6	5	4	3	2	1	

YHGHSM(+15.99)S(+79.97)DPGVSYR

Identified in MSS764 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 3, Exp. m/z: 563.555, Calc. m/z: 563.554
Data File: ppeptidemix5_CID_Orbi, Scans: 1012 - 1012

Max Intensity: 8.45e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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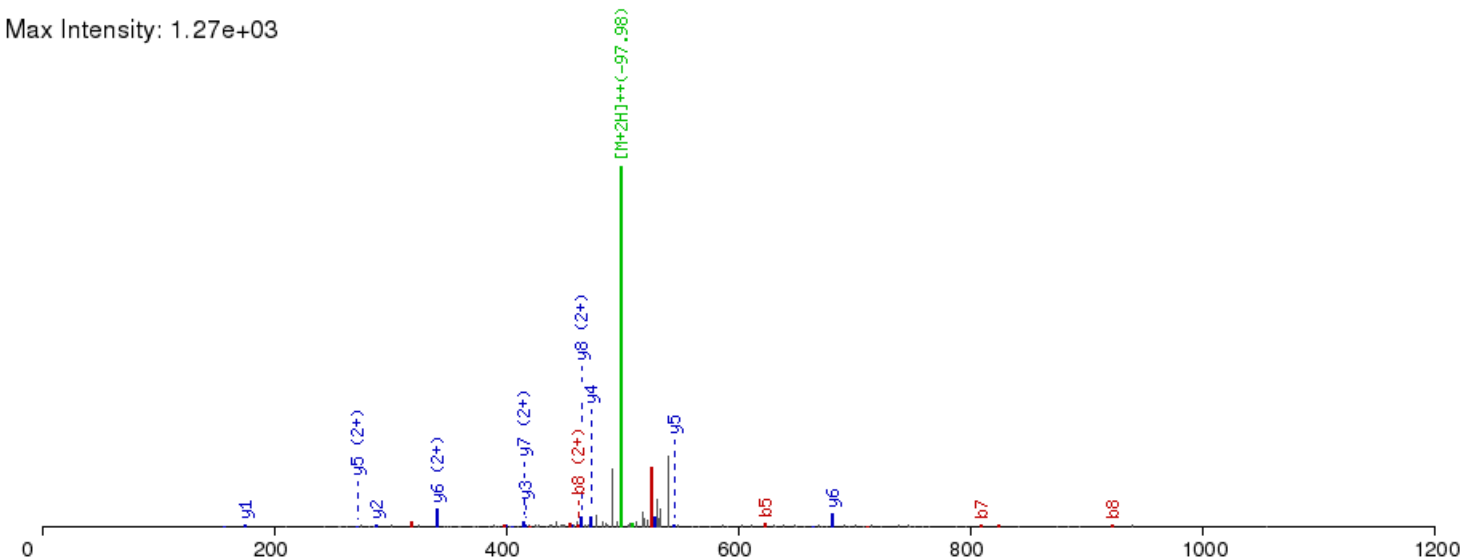
	Y	H	G	H	S	M	S	D	P	G	V	S	Y	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		273.13													a
a (2+)		137.07													a (2+)
b		301.13	358.15	495.21	582.24	729.28	896.28	1011.30	1108.36	1165.38	1264.45	1351.48	1514.54		b
b–15.99						713.28	880.28	995.31	1092.36	1149.38	1248.45	1335.48	1498.55		b–15.99
b–64.00						665.28	832.28	947.30	1044.36	1101.38	1200.45	1287.48	1450.54		b–64.00
b–79.97							816.31	931.34	1028.39	1085.41	1184.48	1271.51	1434.57		b–79.97
b–97.98							798.30	913.33	1010.38	1067.40	1166.47	1253.50	1416.56		b–97.98
b (2+)		151.07	179.58	248.11	291.62	365.14	448.64	506.15	554.68	583.19	632.73	676.24	757.77		b (2+)
b–15.99 (2+)						357.14	440.64	498.16	546.68	575.19	624.73	668.24	749.78		b–15.99 (2+)
b–64.00 (2+)						333.14	416.64	474.16	522.68	551.19	600.73	644.24	725.77		b–64.00 (2+)
b–79.97 (2+)							408.66	466.17	514.70	543.21	592.74	636.26	717.79		b–79.97 (2+)
b–97.98 (2+)							399.65	457.17	505.69	534.20	583.74	627.25	708.79		b–97.98 (2+)
b (3+)				165.74	194.75	243.76	299.43	337.77	370.12	389.13	422.15	451.16	505.52		b (3+)
b–15.99 (3+)						238.43	294.10	332.44	364.79	383.80	416.82	445.83	500.19		b–15.99 (3+)
b–64.00 (3+)						222.43	278.10	316.44	348.79	367.80	400.82	429.83	484.19		b–64.00 (3+)
b–79.97 (3+)							272.77	311.12	343.47	362.48	395.50	424.51	478.86		b–79.97 (3+)
b–97.98 (3+)							266.77	305.11	337.46	356.47	389.49	418.50	472.86		b–97.98 (3+)
y		1525.59	1388.53	1331.51	1194.45	1107.42	960.38	793.38	678.36	581.30	524.28	425.21	338.18	175.12	y
y–15.99		1509.59	1372.54	1315.51	1178.45	1091.42									y–15.99
y–64.00		1461.59	1324.53	1267.51	1130.45	1043.42									y–64.00
y–79.97		1445.62	1308.56	1251.54	1114.48	1027.45	880.42								y–79.97
y–97.98		1427.61	1290.55	1233.53	1096.47	1009.44	862.41								y–97.98
y (2+)		763.30	694.77	666.26	597.73	554.21	480.69	397.20	339.68	291.16	262.65	213.11	169.59	88.06	y (2+)
y–15.99 (2+)		755.30	686.77	658.26	589.73	546.21									y–15.99 (2+)
y–64.00 (2+)		731.30	662.77	634.26	565.73	522.21									y–64.00 (2+)
y–79.97 (2+)		723.31	654.79	626.27	557.75	514.23	440.71								y–79.97 (2+)
y–97.98 (2+)		714.31	645.78	617.27	548.74	505.22	431.71								y–97.98 (2+)
y (3+)		509.20	463.51	444.51											y (3+)
y–15.99 (3+)		503.87	458.18	439.18											y–15.99 (3+)
y–64.00 (3+)		487.87	442.18	423.17											y–64.00 (3+)
y–79.97 (3+)		482.55	436.86	417.85											y–79.97 (3+)
y–97.98 (3+)		476.54	430.86	411.85											y–97.98 (3+)
	Y	H	G	H	S	M	S	D	P	G	V	S	Y	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)TFHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix3_CID_Orbi, Scans: 1499 - 1499

Max Intensity: 1.27e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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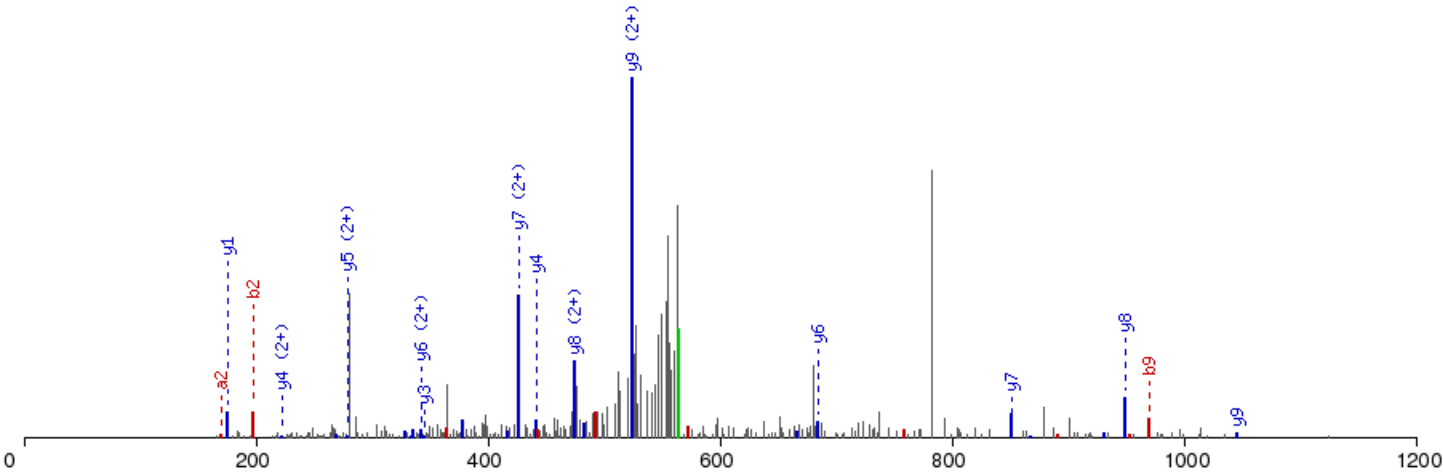
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		929.50	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y (2+)		465.25	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

VPPS(+79.97)ELPGLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 572.792, Calc. m/z: 572.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2251 - 2251

Max Intensity: 1.47e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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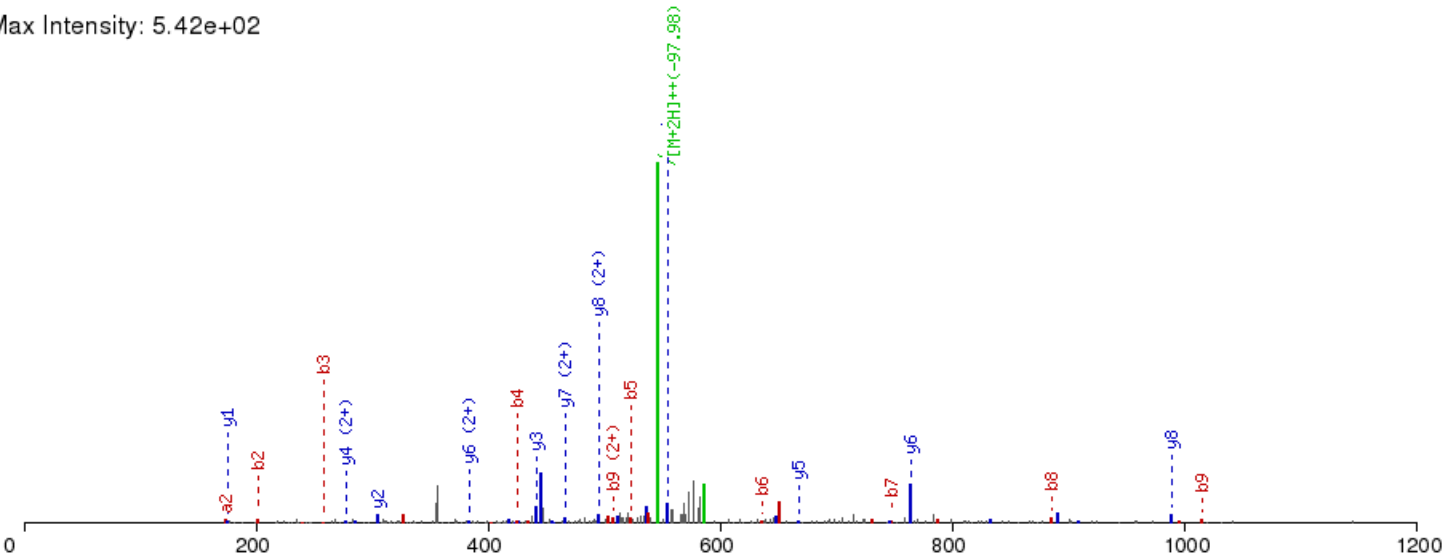
	V	P	P	S	E	L	P	G	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		169.13									a
b		197.13	294.18	461.18	590.22	703.31	800.36	857.38	970.46		b
b-79.97				381.21	510.26	623.34	720.39	777.41	890.50		b-79.97
b-97.98				363.20	492.25	605.33	702.38	759.40	872.49		b-97.98
y		1045.51	948.45	851.40	684.40	555.36	442.28	345.22	288.20	175.12	y
y-79.97		965.54	868.49	771.44							y-79.97
y-97.98		947.53	850.48	753.43							y-97.98
y (2+)		523.26	474.73	426.20	342.71	278.18	221.64	173.12	144.61	88.06	y (2+)
y-79.97 (2+)		483.27	434.75	386.22							y-79.97 (2+)
y-97.98 (2+)		474.27	425.74	377.22							y-97.98 (2+)
	V	P	P	S	E	L	P	G	L	R	
	10	9	8	7	6	5	4	3	2	1	

SLGS(+79.97)PLLHER

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 594.792, Calc. m/z: 594.797
Data File: ppeptidemix2_CID_Orbi, Scans: 2103 - 2103

Max Intensity: 5.42e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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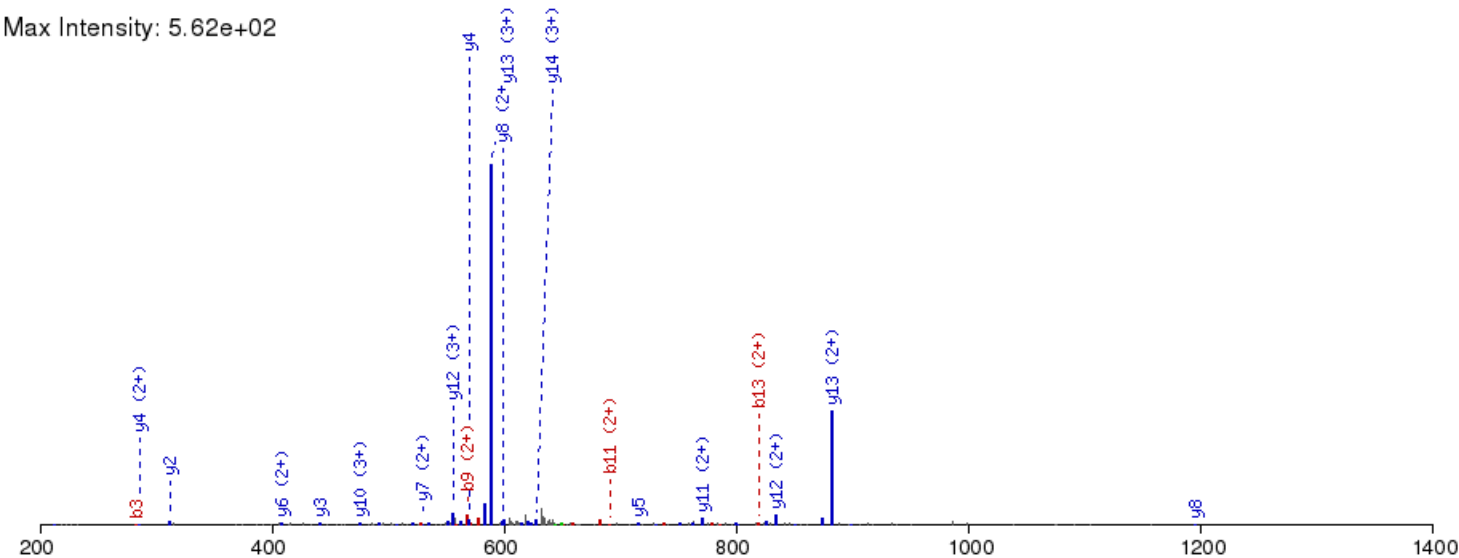
	S	L	G	S	P	L	L	H	E	R	
	1	2	3	4	5	6	7	8	9	10	
a		173.13									a
b		201.12	258.14	425.14	522.20	635.28	748.36	885.42	1014.47		b
b-79.97				345.18	442.23	555.31	668.40	805.46	934.50		b-79.97
b-97.98				327.17	424.22	537.30	650.39	787.45	916.49		b-97.98
b (2+)								443.22	507.74		b (2+)
b-79.97 (2+)								403.23	467.75		b-79.97 (2+)
b-97.98 (2+)								394.23	458.75		b-97.98 (2+)
y		1101.55	988.46	931.44	764.44	667.39	554.30	441.22	304.16	175.12	y
y-79.97		1021.58	908.49	851.47							y-79.97
y-97.98		1003.57	890.48	833.46							y-97.98
y (2+)		551.28	494.73	466.22	382.72	334.20	277.66	221.11	152.58	88.06	y (2+)
y-79.97 (2+)		511.29	454.75	426.24							y-79.97 (2+)
y-97.98 (2+)		502.29	445.75	417.24							y-97.98 (2+)
	S	L	G	S	P	L	L	H	E	R	
	10	9	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS764 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 3, Exp. m/z: 650.272, Calc. m/z: 650.274
Data File: ppeptidemix5_CID_Orbi, Scans: 1079 - 1079

Max Intensity: 5.62e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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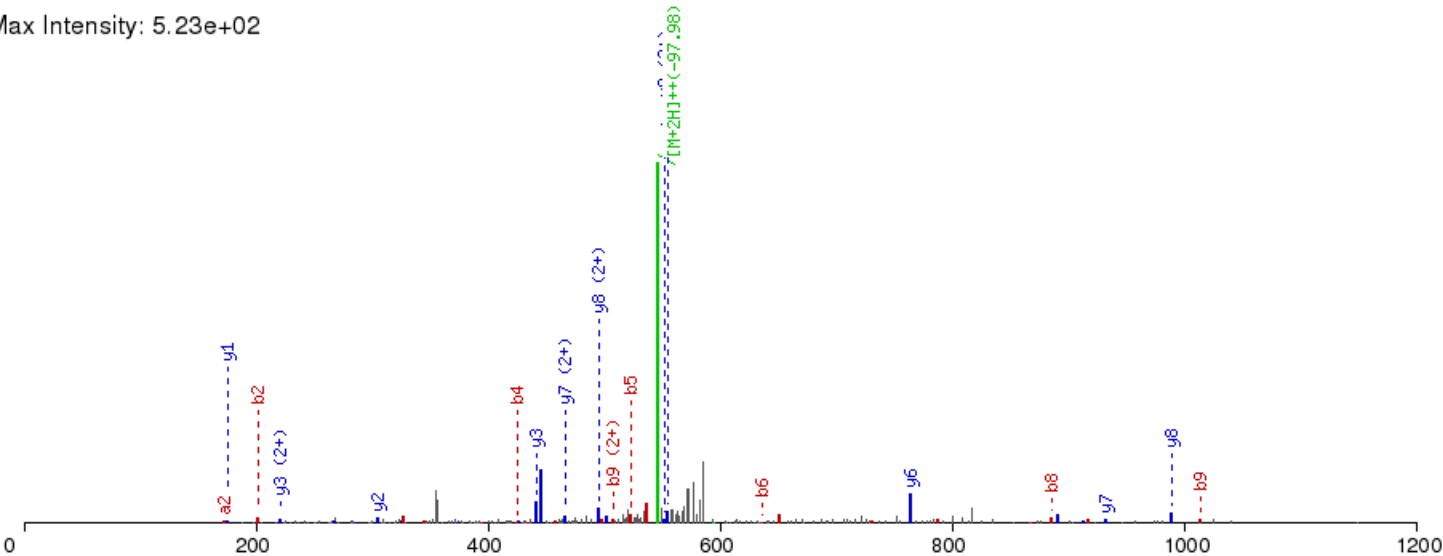
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
b (3+)														592.23		b (3+)
b-15.99 (3+)														586.90		b-15.99 (3+)
b-64.00 (3+)														570.90		b-64.00 (3+)
b-79.97 (3+)														565.58		b-79.97 (3+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
y (3+)		626.59	588.90	556.55	513.86	475.85	437.50	399.16	353.48	272.47	239.44	190.43	147.75	104.73		y (3+)
y-15.99 (3+)		621.26	583.57	551.22	508.53	470.51	432.17	393.83	348.14	267.13	234.11					y-15.99 (3+)
y-64.00 (3+)		605.26	567.57	535.21	492.53	454.51	416.17	377.83	332.14	251.13	218.11					y-64.00 (3+)
y-79.97 (3+)		599.94	562.24	529.89	487.21	449.19	410.85	372.51	326.82							y-79.97 (3+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SLGS(+79.97)PLLHER

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 594.792, Calc. m/z: 594.797
Data File: ppeptidemix2_CID_Orbi, Scans: 2075 - 2075

Max Intensity: 5.23e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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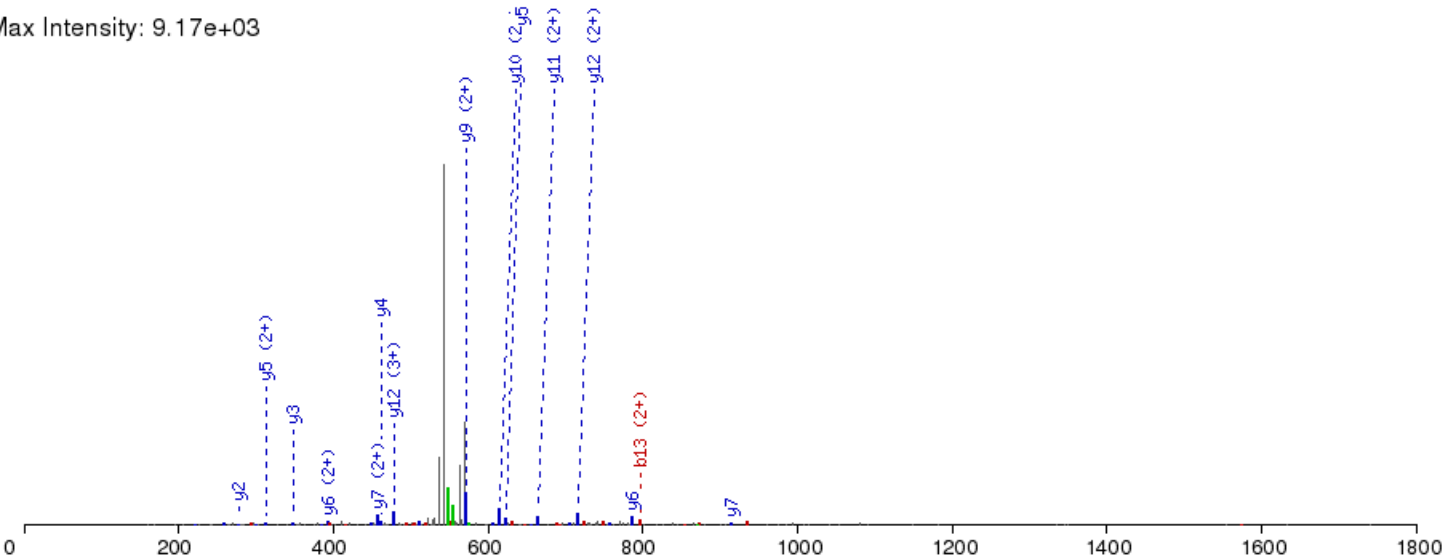
	S	L	G	S	P	L	L	H	E	R	
	1	2	3	4	5	6	7	8	9	10	
a		173.13									a
b		201.12	258.14	425.14	522.20	635.28	748.36	885.42	1014.47		b
b-79.97				345.18	442.23	555.31	668.40	805.46	934.50		b-79.97
b-97.98				327.17	424.22	537.30	650.39	787.45	916.49		b-97.98
b (2+)								443.22	507.74		b (2+)
b-79.97 (2+)								403.23	467.75		b-79.97 (2+)
b-97.98 (2+)								394.23	458.75		b-97.98 (2+)
y		1101.55	988.46	931.44	764.44	667.39	554.30	441.22	304.16	175.12	y
y-79.97		1021.58	908.49	851.47							y-79.97
y-97.98		1003.57	890.48	833.46							y-97.98
y (2+)		551.28	494.73	466.22	382.72	334.20	277.66	221.11	152.58	88.06	y (2+)
y-79.97 (2+)		511.29	454.75	426.24							y-79.97 (2+)
y-97.98 (2+)		502.29	445.75	417.24							y-97.98 (2+)
	S	L	G	S	P	L	L	H	E	R	
	10	9	8	7	6	5	4	3	2	1	

ET(+79.97)TTSPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281
Data File: ppeptidemix4_CID_Orbi, Scans: 1379 - 1379

Max Intensity: 9.17e+03



Sequence Ladder Ions

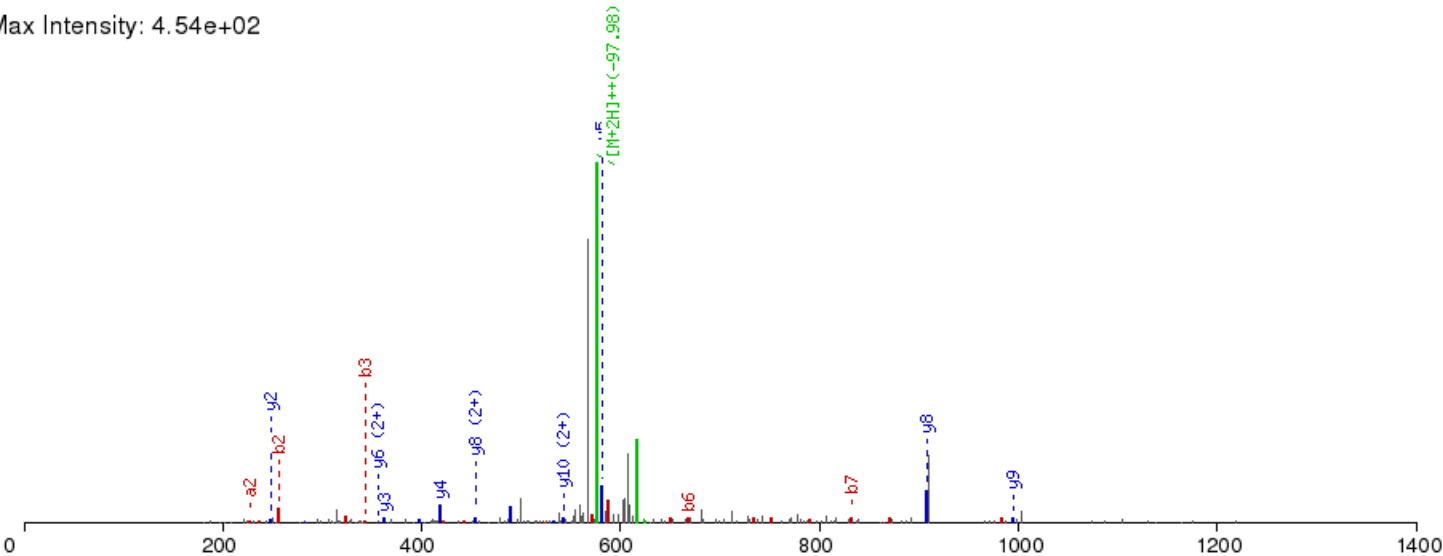
Key:	m/z out of range of spectrum				matched c-term ion			unmatched c-term ion			matched n-term ion			unmatched n-term ion		
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
a		283.07													a	
a-79.97		203.10													a-79.97	
a-97.98		185.09													a-97.98	
b		311.06	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b	
b-79.97		231.10	332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97	
b-97.98		213.09	314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98	
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)	
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)	
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)	
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)	
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)	
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)	
y		1609.79	1428.77	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y	
y-79.97		1529.82													y-79.97	
y-97.98		1511.81													y-97.98	
y (2+)		805.40	714.89	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)	
y-79.97 (2+)		765.41													y-79.97 (2+)	
y-97.98 (2+)		756.41													y-97.98 (2+)	
y (3+)		537.27	476.93	443.25	409.56	380.55	348.20	305.50							y (3+)	
y-79.97 (3+)		510.61													y-79.97 (3+)	
y-97.98 (3+)		504.61													y-97.98 (3+)	
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K		
	14	13	12	11	10	9	8	7	6	5	4	3	2	1		

S(+79.97)SSPTQYGLTK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 624.776, Calc. m/z: 624.777
Data File: ppeptidemix3_CID_Orbi, Scans: 1680 - 1680

Max Intensity: 4.54e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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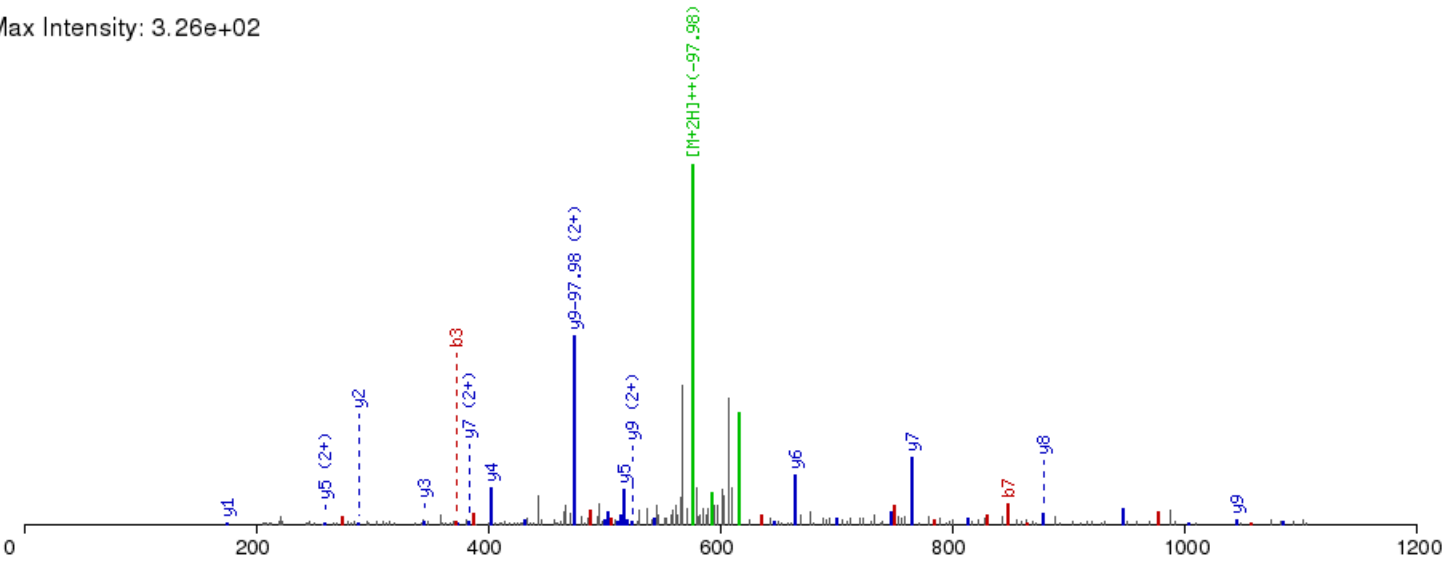
	S	S	S	P	T	Q	Y	G	L	T	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		227.04										a
a-79.97		147.08										a-79.97
a-97.98		129.07										a-97.98
b		255.04	342.07	439.12	540.17	668.23	831.29	888.31	1001.40	1102.45		b
b-79.97		175.07	262.10	359.16	460.20	588.26	751.33	808.35	921.43	1022.48		b-79.97
b-97.98		157.06	244.09	341.15	442.19	570.25	733.32	790.34	903.42	1004.47		b-97.98
y		1081.55	994.52	907.49	810.44	709.39	581.33	418.27	361.24	248.16	147.11	y
y (2+)		541.28	497.76	454.25	405.72	355.20	291.17	209.64	181.13	124.58	74.06	y (2+)
	S	S	S	P	T	Q	Y	G	L	T	K	
	11	10	9	8	7	6	5	4	3	2	1	

FGS(+79.97)LTM(+15.99)DGGLR

Identified in MSS764 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 625.268, Calc. m/z: 625.267
Data File: ppeptidemix2_CID_Orbi, Scans: 2215 - 2215

Max Intensity: 3.26e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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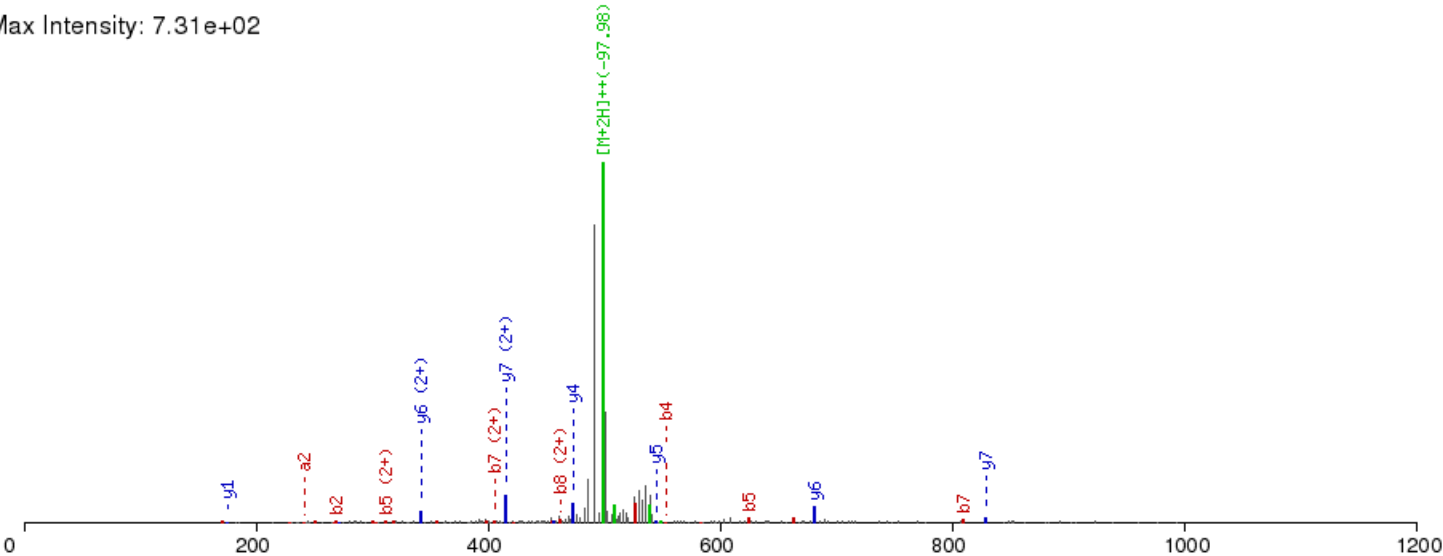
	F	G	S	L	T	M	D	G	G	L	R	
	1	2	3	4	5	6	7	8	9	10	11	
a		177.10										a
b		205.10	372.10	485.18	586.23	733.26	848.29	905.31	962.33	1075.42		b
b-15.99						717.27	832.29	889.32	946.34	1059.42		b-15.99
b-64.00						669.26	784.29	841.31	898.33	1011.42		b-64.00
b-79.97			292.13	405.21	506.26	653.30	768.32	825.34	882.37	995.45		b-79.97
b-97.98			274.12	387.20	488.25	635.29	750.31	807.33	864.36	977.44		b-97.98
y		1102.46	1045.44	878.44	765.36	664.31	517.27	402.25	345.22	288.20	175.12	y
y-15.99		1086.46	1029.44	862.45	749.36	648.31						y-15.99
y-64.00		1038.46	981.44	814.44	701.36	600.31						y-64.00
y-79.97		1022.49	965.47									y-79.97
y-97.98		1004.48	947.46									y-97.98
y (2+)		551.73	523.22	439.72	383.18	332.66	259.14	201.63	173.12	144.61	88.06	y (2+)
y-15.99 (2+)		543.74	515.23	431.73	375.18	324.66						y-15.99 (2+)
y-64.00 (2+)		519.73	491.22	407.72	351.18	300.66						y-64.00 (2+)
y-79.97 (2+)		511.75	483.24									y-79.97 (2+)
y-97.98 (2+)		502.75	474.23									y-97.98 (2+)
	F	G	S	L	T	M	D	G	G	L	R	
	11	10	9	8	7	6	5	4	3	2	1	

ST(+79.97)FHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix2_CID_Orbi, Scans: 1454 - 1454

Max Intensity: 7.31e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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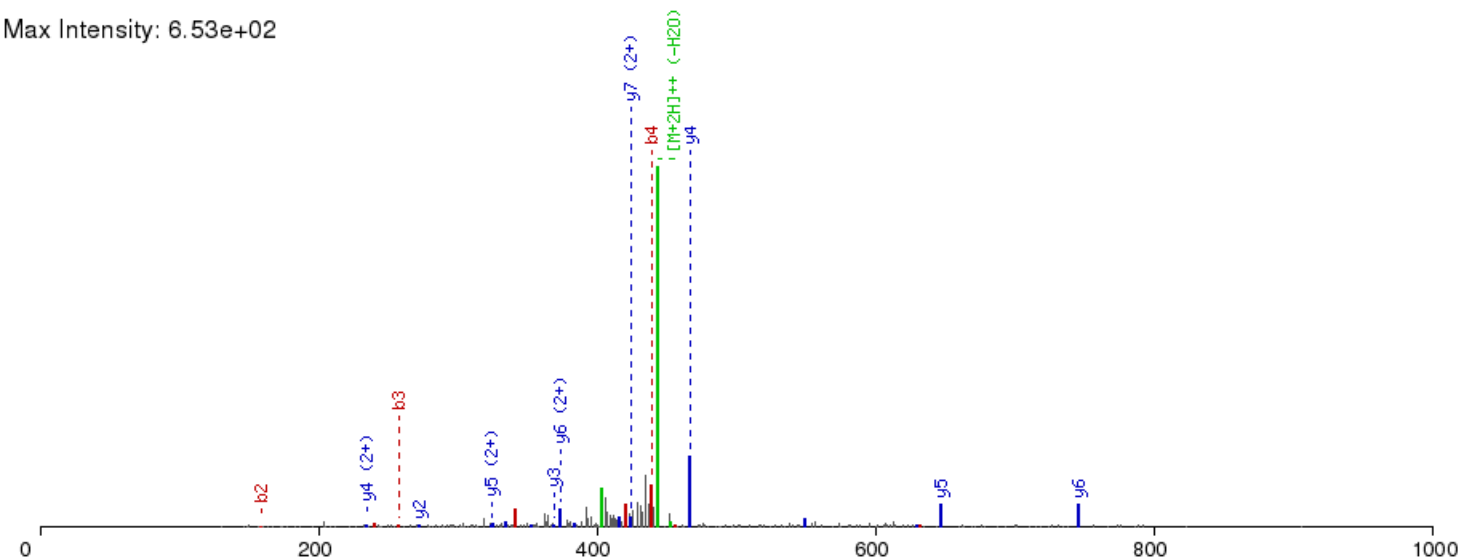
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		1009.46	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y-79.97		929.50								y-79.97
y-97.98		911.48								y-97.98
y (2+)		505.23	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y-79.97 (2+)		465.25								y-79.97 (2+)
y-97.98 (2+)		456.25								y-97.98 (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.718
Data File: ppeptidemix3_CID_Orbi, Scans: 1102 - 1102

Max Intensity: 6.53e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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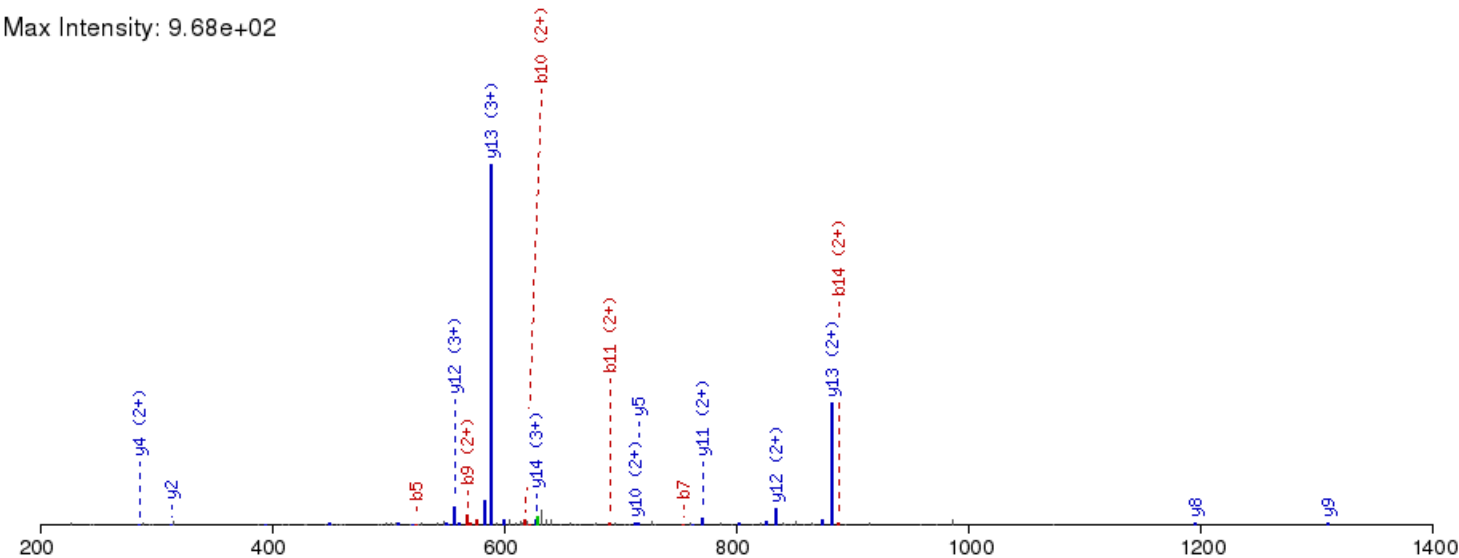
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

ALPQNDDHY(+79.97)VM(+15.99)QEHR

Identified in MSS764 1 x Phospho (Y) 1 x Oxidation (M)

Charge: 3, Exp. m/z: 650.271, Calc. m/z: 650.274
Data File: ppeptidemix5_CID_Orbi, Scans: 1054 - 1054

Max Intensity: 9.68e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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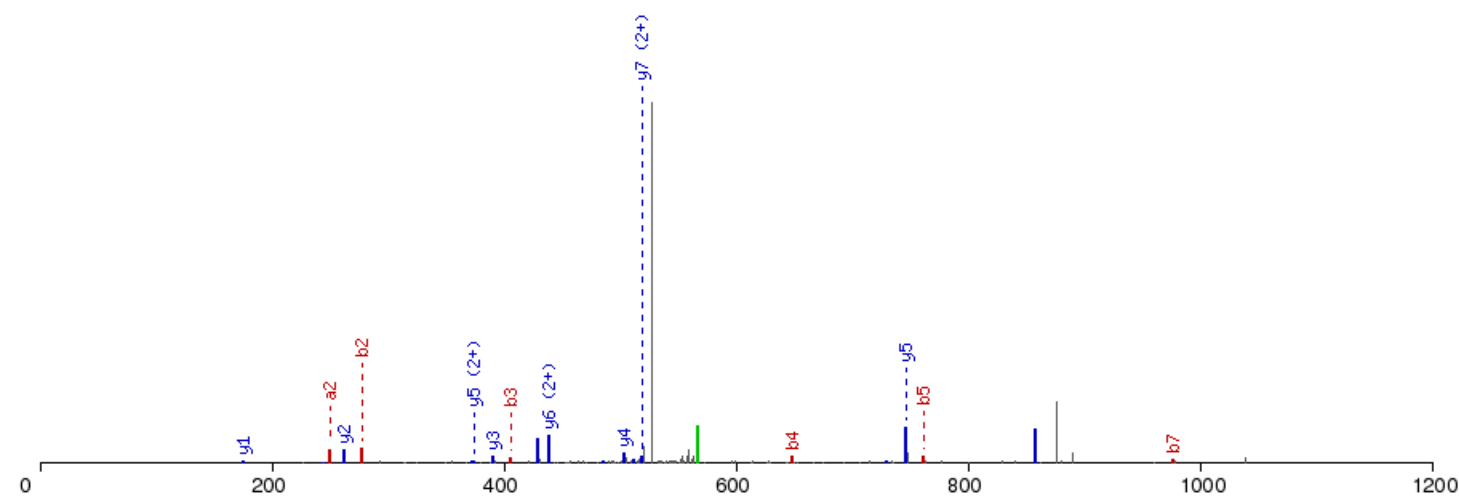
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
a		157.13														a
b		185.13	282.18	410.24	524.28	639.31	754.34	891.40	1134.43	1233.49	1380.53	1508.59	1637.63	1774.69		b
b-15.99											1364.53	1492.59	1621.64	1758.69		b-15.99
b-64.00											1316.53	1444.59	1573.63	1710.69		b-64.00
b-79.97									1054.46	1153.53	1300.56	1428.62	1557.66	1694.72		b-79.97
b (2+)								446.20	567.72	617.25	690.77	754.80	819.32	887.85		b (2+)
b-15.99 (2+)											682.77	746.80	811.32	879.85		b-15.99 (2+)
b-64.00 (2+)											658.77	722.80	787.32	855.85		b-64.00 (2+)
b-79.97 (2+)									527.73	577.27	650.78	714.81	779.34	847.87		b-79.97 (2+)
b (3+)														592.23		b (3+)
b-15.99 (3+)														586.90		b-15.99 (3+)
b-64.00 (3+)														570.90		b-64.00 (3+)
b-79.97 (3+)														565.58		b-79.97 (3+)
y		1877.76	1764.68	1667.63	1539.57	1425.53	1310.50	1195.47	1058.41	815.38	716.31	569.28	441.22	312.18	175.12	y
y-15.99		1861.77	1748.68	1651.63	1523.57	1409.53	1294.50	1179.48	1042.42	799.39	700.32					y-15.99
y-64.00		1813.77	1700.68	1603.63	1475.57	1361.53	1246.50	1131.47	994.41	751.38	652.32					y-64.00
y-79.97		1797.80	1684.71	1587.66	1459.60	1345.56	1230.53	1115.51	978.45							y-79.97
y (2+)		939.39	882.84	834.32	770.29	713.27	655.75	598.24	529.71	408.20	358.66	285.14	221.11	156.59	88.06	y (2+)
y-15.99 (2+)		931.39	874.85	826.32	762.29	705.27	647.76	590.24	521.71	400.20	350.66					y-15.99 (2+)
y-64.00 (2+)		907.39	850.84	802.32	738.29	681.27	623.75	566.24	497.71	376.20	326.66					y-64.00 (2+)
y-79.97 (2+)		899.40	842.86	794.33	730.30	673.28	615.77	558.26	489.73							y-79.97 (2+)
y (3+)		626.59	588.90	556.55	513.86	475.85	437.50	399.16	353.48	272.47	239.44	190.43	147.75	104.73		y (3+)
y-15.99 (3+)		621.26	583.57	551.22	508.53	470.51	432.17	393.83	348.14	267.13	234.11					y-15.99 (3+)
y-64.00 (3+)		605.26	567.57	535.21	492.53	454.51	416.17	377.83	332.14	251.13	218.11					y-64.00 (3+)
y-79.97 (3+)		599.94	562.24	529.89	487.21	449.19	410.85	372.51	326.82							y-79.97 (3+)
	A	L	P	Q	N	D	D	H	Y	V	M	Q	E	H	R	
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

IYQY(+79.97)IQSR

Identified in MSS764 1 x Phospho (Y)

Charge: 2, Exp. m/z: 576.270, Calc. m/z: 575.767
Data File: ppeptidemix3_CID_Orbi, Scans: 1597 - 1597

Max Intensity: 1.83e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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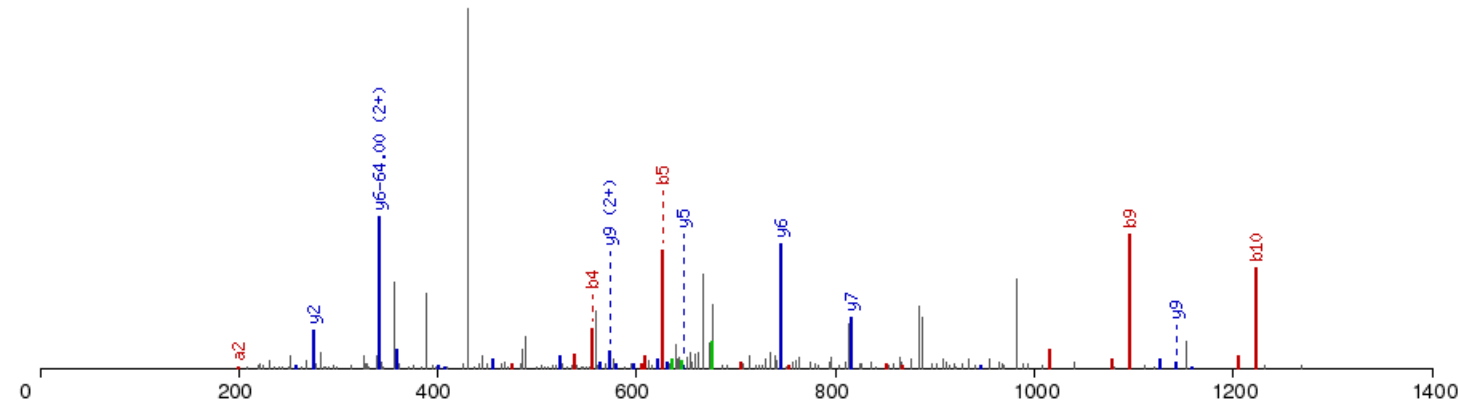
	I	Y	Q	Y	I	Q	S	R	
	1	2	3	4	5	6	7	8	
a		249.16							a
b		277.15	405.21	648.24	761.33	889.39	976.42		b
b-79.97				568.28	681.36	809.42	896.45		b-79.97
y		1037.45	874.38	746.32	503.29	390.21	262.15	175.12	y
y-79.97		957.48	794.42	666.36					y-79.97
y (2+)		519.23	437.69	373.67	252.15	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		479.24	397.71	333.68					y-79.97 (2+)
	I	Y	Q	Y	I	Q	S	R	
	8	7	6	5	4	3	2	1	

LLT(+79.97)FAPQPM(+15.99)KK

Identified in MSS764 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 2, Exp. m/z: 685.352, Calc. m/z: 685.352
Data File: ppeptidemix4_CID_Orbi, Scans: 2001 - 2001

Max Intensity: 1.61e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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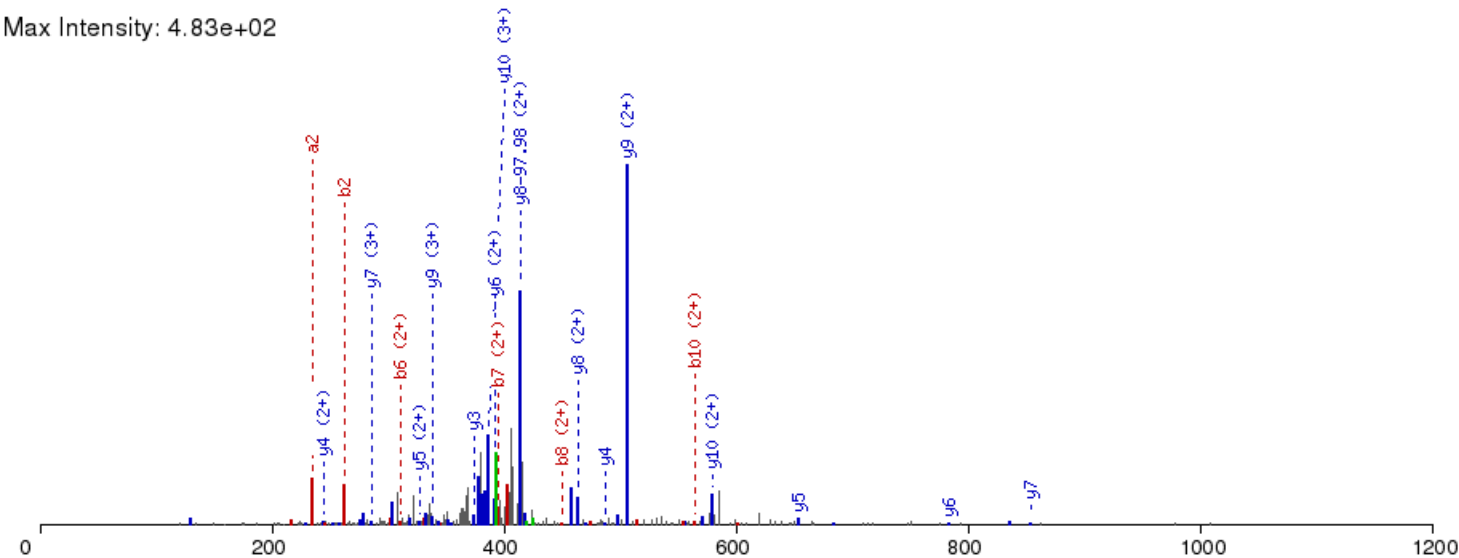
	L	L	T	F	A	P	Q	P	M	K	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		199.18										a
b		227.18	408.19	555.26	626.29	723.35	851.41	948.46	1095.49	1223.59		b
b-15.99									1079.50	1207.59		b-15.99
b-64.00									1031.50	1159.59		b-64.00
b-79.97			328.22	475.29	546.33	643.38	771.44	868.49	1015.53	1143.62		b-79.97
b-97.98			310.21	457.28	528.32	625.37	753.43	850.48	997.52	1125.61		b-97.98
b (2+)										612.30		b (2+)
b-15.99 (2+)										604.30		b-15.99 (2+)
b-64.00 (2+)										580.30		b-64.00 (2+)
b-79.97 (2+)										572.32		b-79.97 (2+)
b-97.98 (2+)										563.31		b-97.98 (2+)
y		1256.61	1143.53	962.51	815.44	744.41	647.35	519.30	422.24	275.21	147.11	y
y-15.99		1240.62	1127.53	946.52	799.45	728.41	631.36	503.30	406.25			y-15.99
y-64.00		1192.61	1079.53	898.51	751.45	680.41	583.36	455.30	358.24			y-64.00
y-79.97		1176.64	1063.56									y-79.97
y-97.98		1158.63	1045.55									y-97.98
y (2+)		628.81	572.27	481.76	408.23	372.71	324.18	260.15	211.63	138.11	74.06	y (2+)
y-15.99 (2+)		620.81	564.27	473.76	400.23	364.71	316.18	252.15	203.63			y-15.99 (2+)
y-64.00 (2+)		596.81	540.27	449.76	376.23	340.71	292.18	228.15	179.63			y-64.00 (2+)
y-79.97 (2+)		588.83	532.28									y-79.97 (2+)
y-97.98 (2+)		579.82	523.28									y-97.98 (2+)
	L	L	T	F	A	P	Q	P	M	K	K	
	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 424.883, Calc. m/z: 424.887
Data File: ppeptidemix1_CID_Orbi, Scans: 1873 - 1873

Max Intensity: 4.83e+02

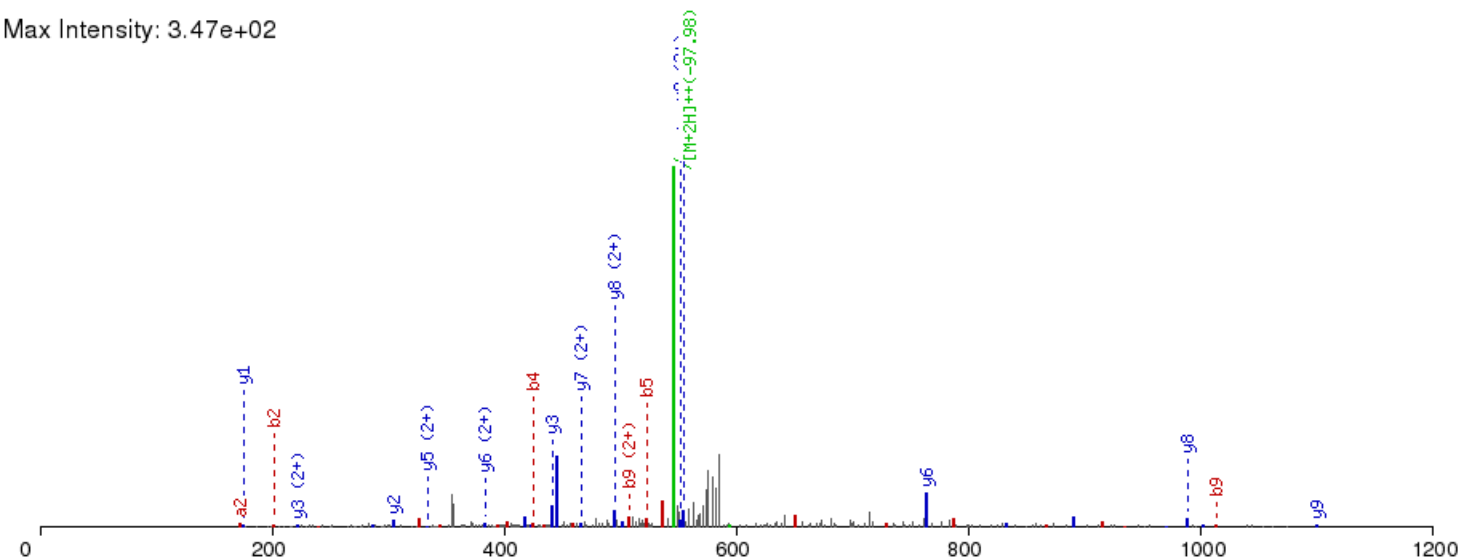


SLGS(+79.97)PLLHER

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 594.792, Calc. m/z: 594.797
Data File: ppeptidemix2_CID_Orbi, Scans: 2131 - 2131

Max Intensity: 3.47e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	S	L	G	S	P	L	L	H	E	R	
	1	2	3	4	5	6	7	8	9	10	
a		173.13									a
b		201.12	258.14	425.14	522.20	635.28	748.36	885.42	1014.47		b
b-79.97				345.18	442.23	555.31	668.40	805.46	934.50		b-79.97
b-97.98				327.17	424.22	537.30	650.39	787.45	916.49		b-97.98
b (2+)								443.22	507.74		b (2+)
b-79.97 (2+)								403.23	467.75		b-79.97 (2+)
b-97.98 (2+)								394.23	458.75		b-97.98 (2+)
y		1101.55	988.46	931.44	764.44	667.39	554.30	441.22	304.16	175.12	y
y-79.97		1021.58	908.49	851.47							y-79.97
y-97.98		1003.57	890.48	833.46							y-97.98
y (2+)		551.28	494.73	466.22	382.72	334.20	277.66	221.11	152.58	88.06	y (2+)
y-79.97 (2+)		511.29	454.75	426.24							y-79.97 (2+)
y-97.98 (2+)		502.29	445.75	417.24							y-97.98 (2+)
	S	L	G	S	P	L	L	H	E	R	
	10	9	8	7	6	5	4	3	2	1	

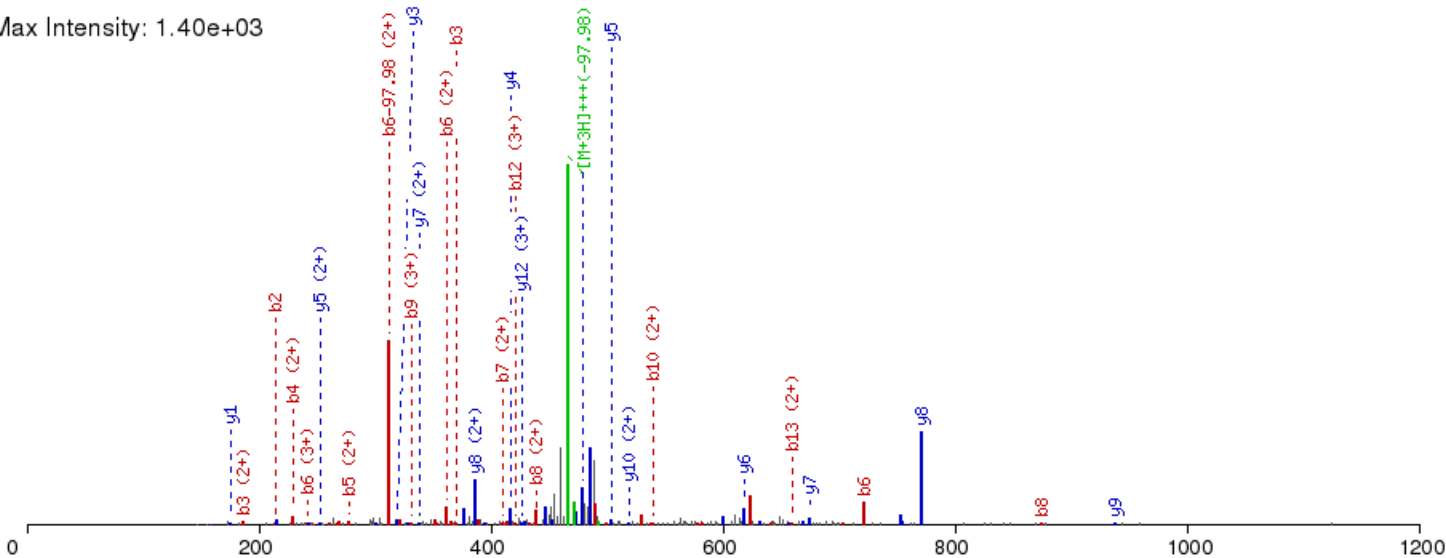
GRRSPS(+79.97)PGNSPSGR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 497.898, Calc. m/z: 497.901

Data File: ppeptidemix5_CID_Orbi, Scans: 898 - 898

Max Intensity: 1.40e+03



Sequence Ladder Ions

Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion

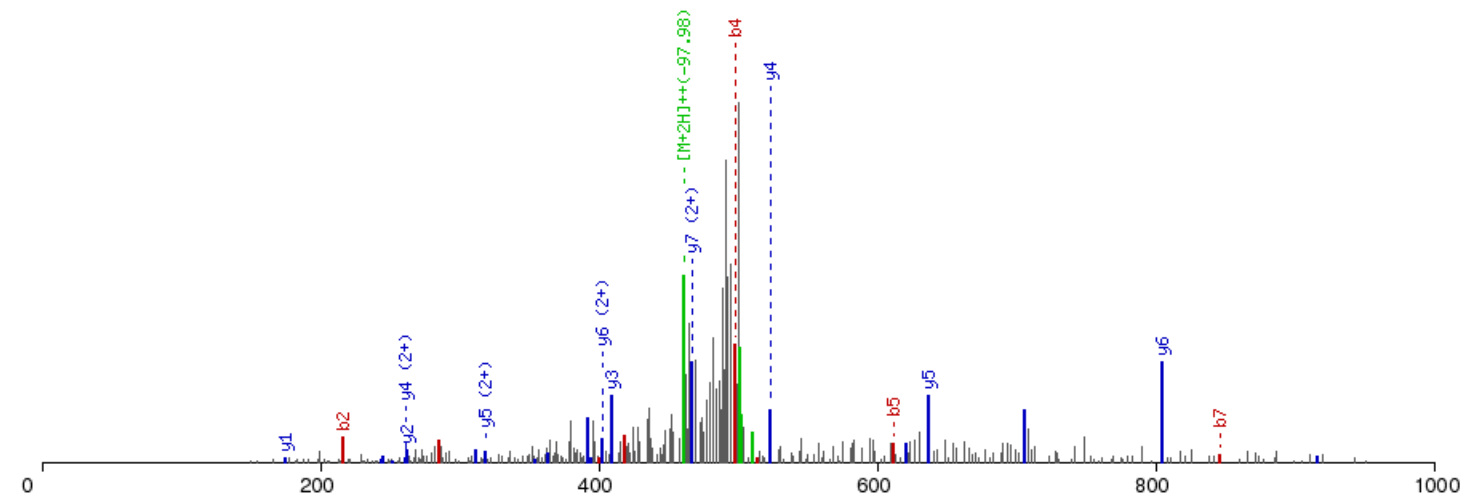
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		186.13													a
a (2+)		93.57													a (2+)
b		214.13	370.23	457.26	554.32	721.31	818.37	875.39	989.43	1076.46	1173.52	1260.55	1317.57		b
b-79.97						641.35	738.40	795.42	909.46	996.50	1093.55	1180.58	1237.60		b-79.97
b-97.98						623.34	720.39	777.41	891.45	978.49	1075.54	1162.57	1219.59		b-97.98
b (2+)		107.57	185.62	229.14	277.66	361.16	409.69	438.20	495.22	538.74	587.26	630.78	659.29		b (2+)
b-79.97 (2+)						321.18	369.70	398.21	455.24	498.75	547.28	590.79	619.31		b-79.97 (2+)
b-97.98 (2+)						312.17	360.70	389.21	446.23	489.75	538.27	581.79	610.30		b-97.98 (2+)
b (3+)			124.08	153.09	185.44	241.11	273.46	292.47	330.48	359.49	391.84	420.85	439.86		b (3+)
b-79.97 (3+)						214.45	246.81	265.81	303.83	332.84	365.19	394.20	413.21		b-79.97 (3+)
b-97.98 (3+)						208.45	240.80	259.81	297.82	326.83	359.18	388.20	407.20		b-97.98 (3+)
y		1434.66	1278.56	1122.46	1035.43	938.37	771.37	674.32	617.30	503.26	416.23	319.17	232.14	175.12	y
y-79.97		1354.69	1198.59	1042.49	955.46	858.41									y-79.97
y-97.98		1336.68	1180.58	1024.48	937.45	840.40									y-97.98
y (2+)		717.83	639.78	561.73	518.22	469.69	386.19	337.66	309.15	252.13	208.62	160.09	116.57	88.06	y (2+)
y-79.97 (2+)		677.85	599.80	521.75	478.23	429.71									y-79.97 (2+)
y-97.98 (2+)		668.85	590.79	512.74	469.23	420.70									y-97.98 (2+)
y (3+)		478.89	426.86												y (3+)
y-79.97 (3+)		452.24	400.20												y-79.97 (3+)
y-97.98 (3+)		446.23	394.20												y-97.98 (3+)
	G	R	R	S	P	S	P	G	N	S	P	S	G	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

SQS(+79.97)DIFSR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 510.213, Calc. m/z: 510.217
Data File: ppeptidemix3_CID_Orbi, Scans: 2031 - 2031

Max Intensity: 8.12e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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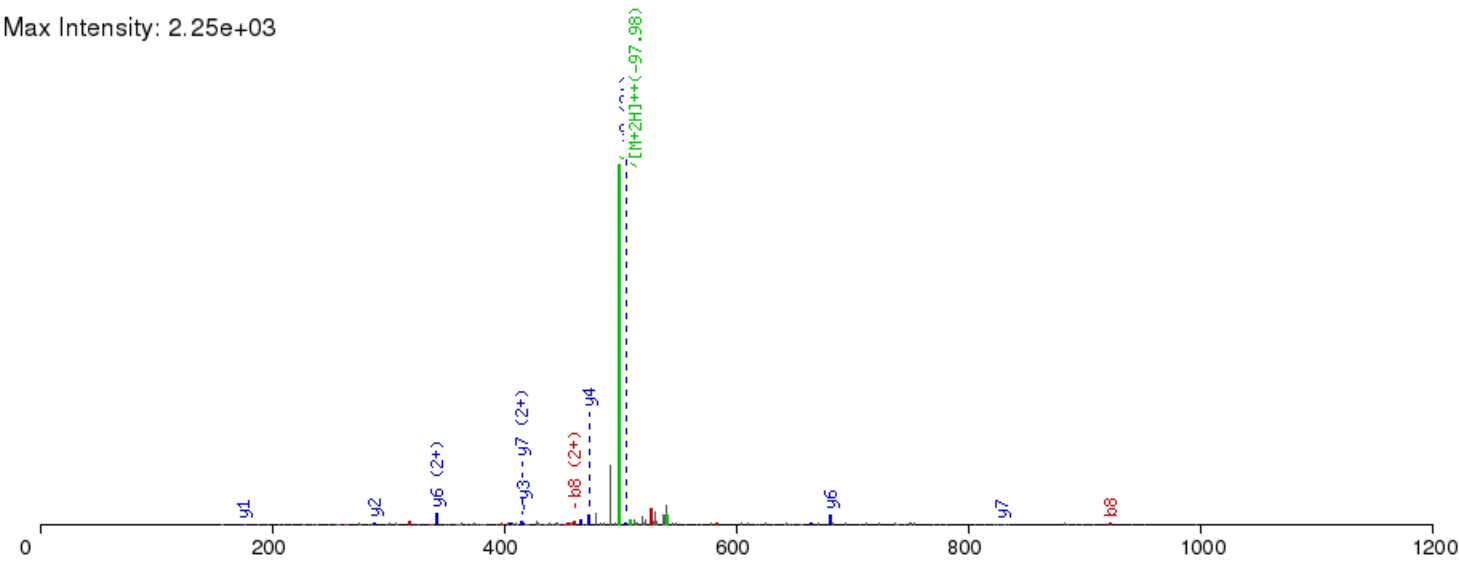
	S	Q	S	D	I	F	S	R	
	1	2	3	4	5	6	7	8	
a		188.10							a
b		216.10	383.10	498.12	611.21	758.28	845.31		b
b-79.97			303.13	418.16	531.24	678.31	765.34		b-79.97
b-97.98			285.12	400.15	513.23	660.30	747.33		b-97.98
y		932.39	804.33	637.33	522.30	409.22	262.15	175.12	y
y-79.97		852.42	724.36						y-79.97
y-97.98		834.41	706.35						y-97.98
y (2+)		466.70	402.67	319.17	261.66	205.11	131.58	88.06	y (2+)
y-79.97 (2+)		426.71	362.68						y-79.97 (2+)
y-97.98 (2+)		417.71	353.68						y-97.98 (2+)
	S	Q	S	D	I	F	S	R	
	8	7	6	5	4	3	2	1	

ST(+79.97)FHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix3_CID_Orbi, Scans: 1465 - 1465

Max Intensity: 2.25e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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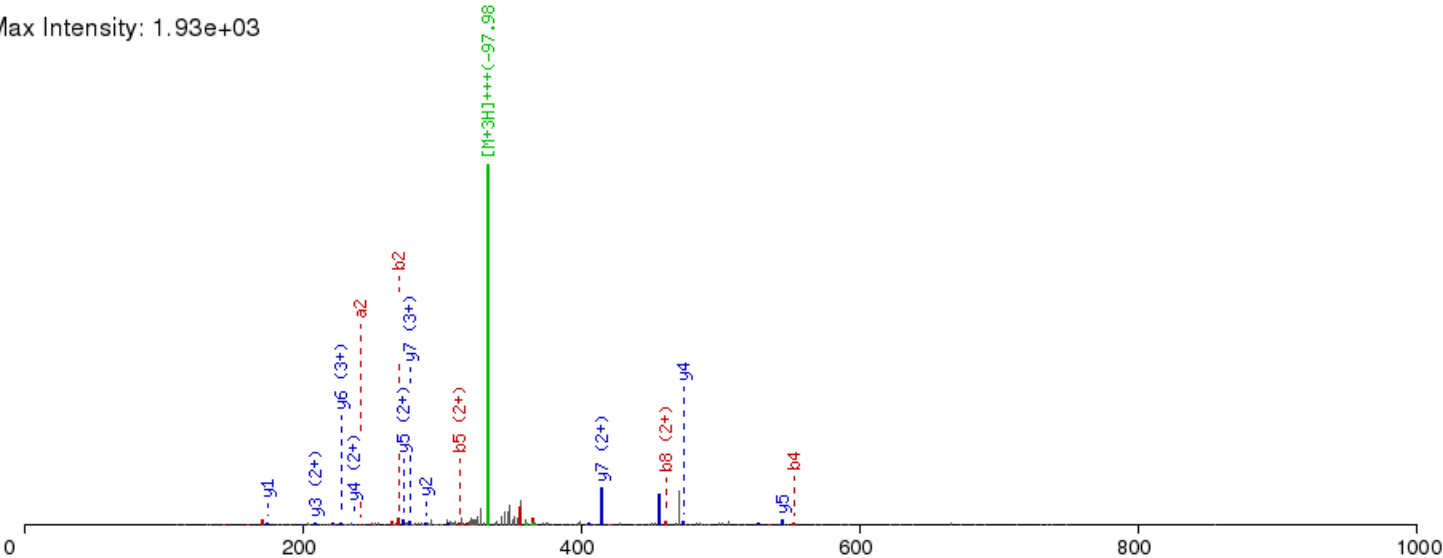
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		1009.46	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y-79.97		929.50								y-79.97
y-97.98		911.48								y-97.98
y (2+)		505.23	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y-79.97 (2+)		465.25								y-79.97 (2+)
y-97.98 (2+)		456.25								y-97.98 (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

S(+79.97)TFHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 366.169, Calc. m/z: 366.171
Data File: ppeptidemix2_CID_Orbi, Scans: 1437 - 1437

Max Intensity: 1.93e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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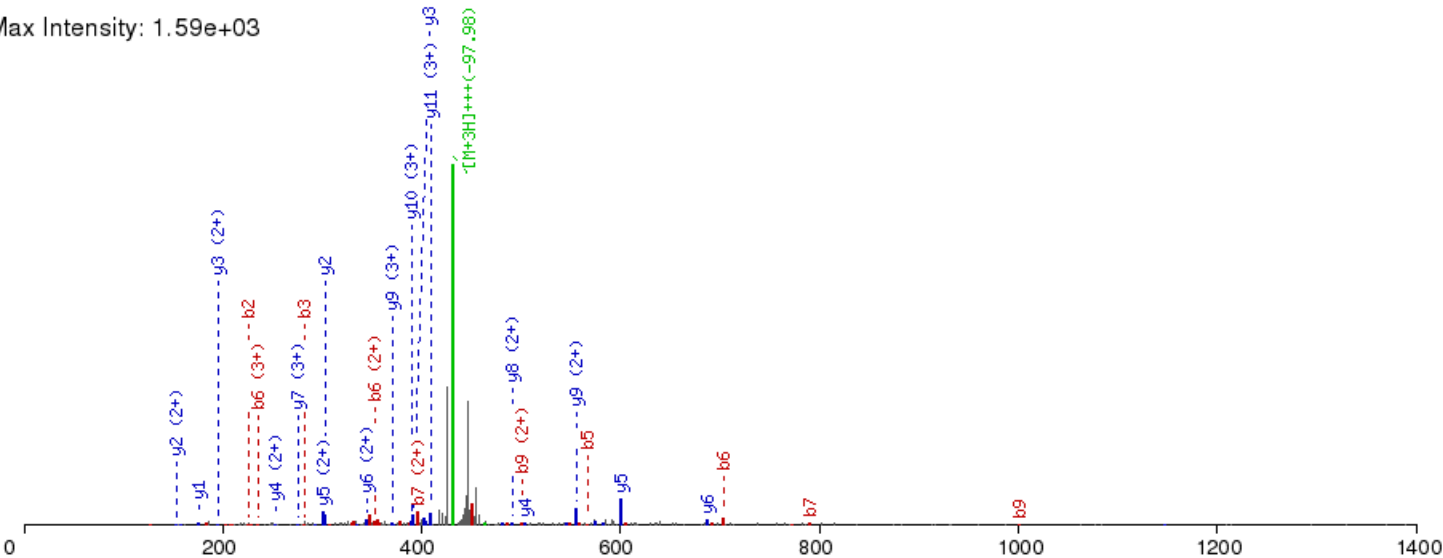
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		929.50	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y (2+)		465.25	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y (3+)		310.50	276.82	227.80						y (3+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 463.884, Calc. m/z: 463.884
Data File: ppeptidemix4_CID_Orbi, Scans: 976 - 976

Max Intensity: 1.59e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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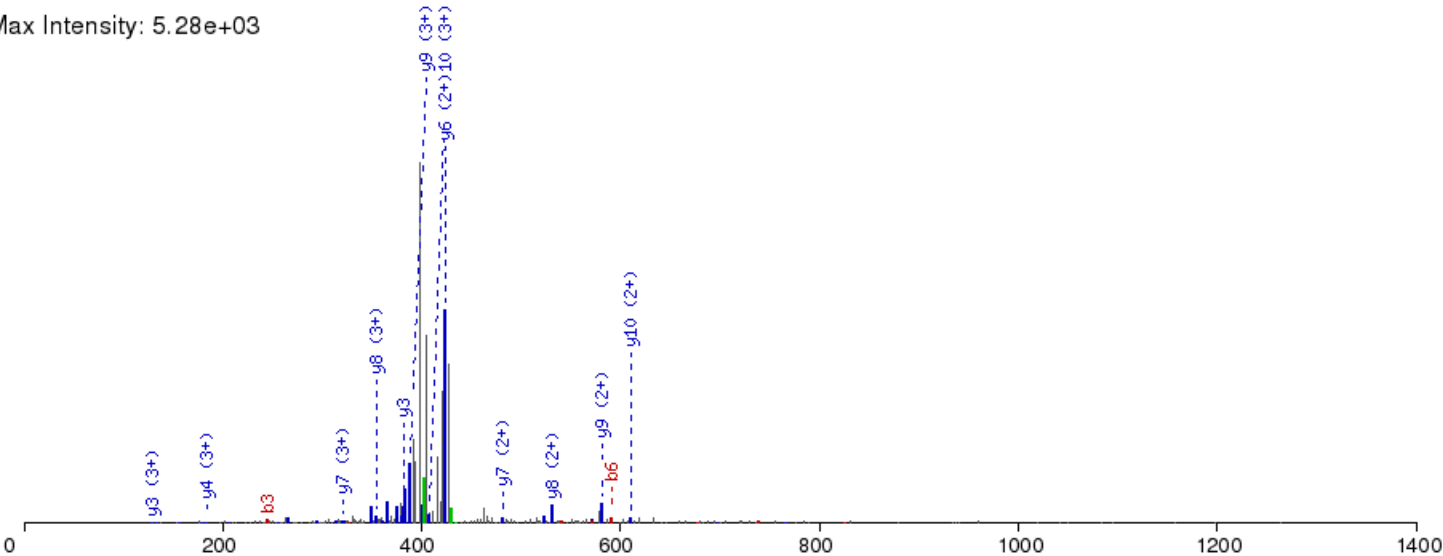
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
b (3+)						235.09	264.10	296.46	334.15	363.16	405.85		b (3+)
b-79.97 (3+)						208.44	237.45	269.80	307.49	336.51	379.19		b-79.97 (3+)
b-97.98 (3+)						202.43	231.45	263.80	301.49	330.50	373.19		b-97.98 (3+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
y (3+)		408.22	389.21	370.20	327.52	275.48							y (3+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

SGVTNMS(+79.97)S(+79.97)PHK

Identified in MSS764 2 x Phospho (ST)

Charge: 3, Exp. m/z: 435.832, Calc. m/z: 435.497
Data File: ppeptidemix2_CID_Orbi, Scans: 1072 - 1072

Max Intensity: 5.28e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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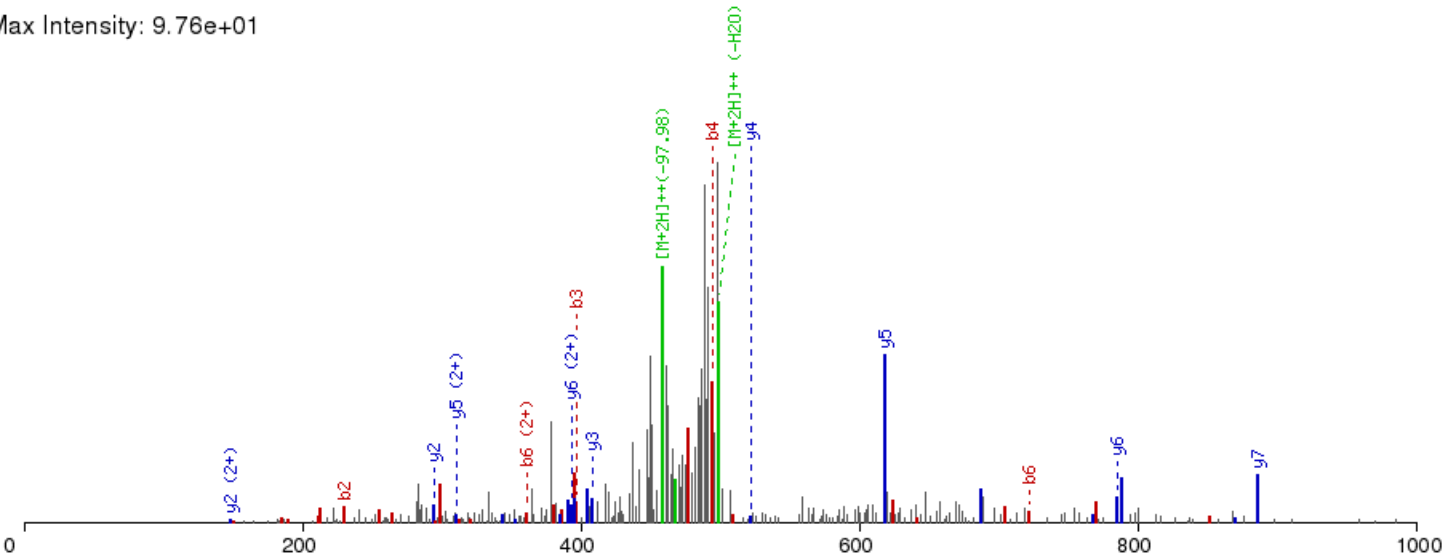
	S	G	V	T	N	M	S	S	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		117.07										a
b		145.06	244.13	345.18	459.22	590.26	757.26	924.26	1021.31	1158.37		b
b-79.97							677.29	844.29	941.34	1078.40		b-79.97
b-97.98							659.28	826.28	923.33	1060.39		b-97.98
b (2+)										579.69		b (2+)
b-79.97 (2+)										539.70		b-79.97 (2+)
b-97.98 (2+)										530.70		b-97.98 (2+)
y		1217.44	1160.42	1061.35	960.30	846.26	715.22	548.22	381.22	284.17	147.11	y
y-79.97		1137.48	1080.45	981.39	880.34	766.30	635.25	468.26				y-79.97
y-97.98		1119.47	1062.44	963.38	862.33	748.28	617.24	450.25				y-97.98
y (2+)		609.22	580.71	531.18	480.66	423.63	358.11	274.62	191.12	142.59	74.06	y (2+)
y-79.97 (2+)		569.24	540.73	491.20	440.67	383.65	318.13	234.63				y-79.97 (2+)
y-97.98 (2+)		560.24	531.73	482.19	431.67	374.65	309.13	225.63				y-97.98 (2+)
y (3+)		406.49	387.48	354.46	320.77	282.76	239.08	183.41	127.75	95.40		y (3+)
y-79.97 (3+)		379.83	360.82	327.80	294.12	256.10	212.42	156.76				y-79.97 (3+)
y-97.98 (3+)		373.83	354.82	321.80	288.11	250.10	206.42	150.75				y-97.98 (3+)
	S	G	V	T	N	M	S	S	P	H	K	
	11	10	9	8	7	6	5	4	3	2	1	

KTS(+79.97)PLNFK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 507.754, Calc. m/z: 507.752
Data File: ppeptidemix1_CID_Orbi, Scans: 1637 - 1637

Max Intensity: 9.76e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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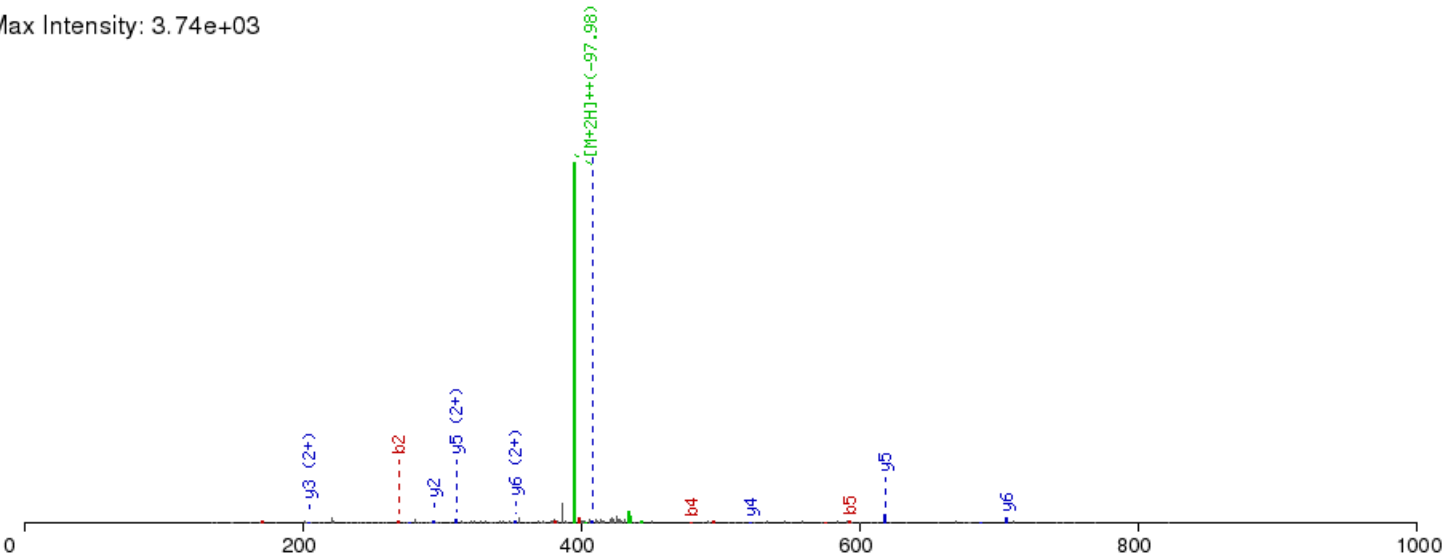
	K	T	S	P	L	N	F	K	
	1	2	3	4	5	6	7	8	
a		202.16							a
a (2+)		101.58							a (2+)
b		230.15	397.15	494.20	607.29	721.33	868.40		b
b-79.97			317.18	414.23	527.32	641.36	788.43		b-79.97
b-97.98			299.17	396.22	509.31	623.35	770.42		b-97.98
b (2+)		115.58	199.08	247.60	304.15	361.17	434.70		b (2+)
b-79.97 (2+)			159.09	207.62	264.16	321.18	394.72		b-79.97 (2+)
b-97.98 (2+)			150.09	198.62	255.16	312.18	385.71		b-97.98 (2+)
y		886.41	785.36	618.36	521.31	408.22	294.18	147.11	y
y-79.97		806.44	705.39						y-79.97
y-97.98		788.43	687.38						y-97.98
y (2+)		443.71	393.18	309.68	261.16	204.62	147.59	74.06	y (2+)
y-79.97 (2+)		403.72	353.20						y-79.97 (2+)
y-97.98 (2+)		394.72	344.19						y-97.98 (2+)
	K	T	S	P	L	N	F	K	
	8	7	6	5	4	3	2	1	

T(+79.97)SPLNFK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 443.707, Calc. m/z: 443.707
Data File: ppeptidemix1_CID_Orbi, Scans: 2036 - 2036

Max Intensity: 3.74e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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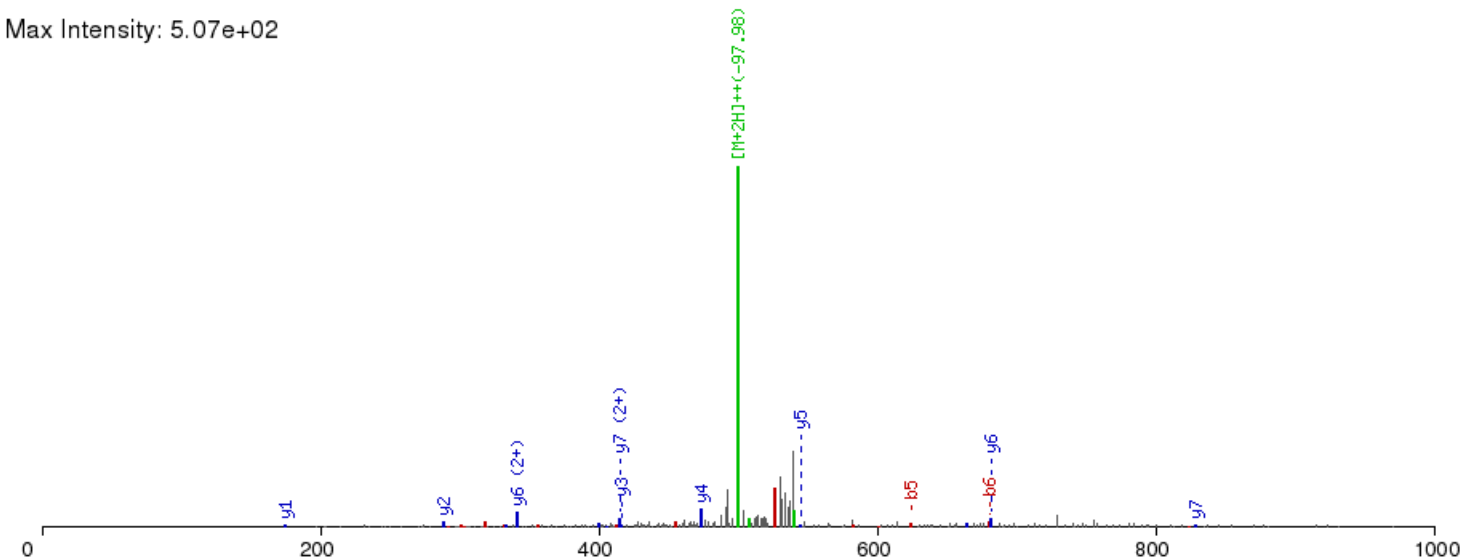
	T	S	P	L	N	F	K	
	1	2	3	4	5	6	7	
a		241.06						a
a-79.97		161.09						a-79.97
a-97.98		143.08						a-97.98
b		269.05	366.11	479.19	593.23	740.30		b
b-79.97		189.09	286.14	399.22	513.27	660.34		b-79.97
b-97.98		171.08	268.13	381.21	495.26	642.32		b-97.98
y		705.39	618.36	521.31	408.22	294.18	147.11	y
y (2+)		353.20	309.68	261.16	204.62	147.59	74.06	y (2+)
	T	S	P	L	N	F	K	
	7	6	5	4	3	2	1	

ST(+79.97)FHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 548.750, Calc. m/z: 548.752
Data File: ppeptidemix3_CID_Orbi, Scans: 1581 - 1581

Max Intensity: 5.07e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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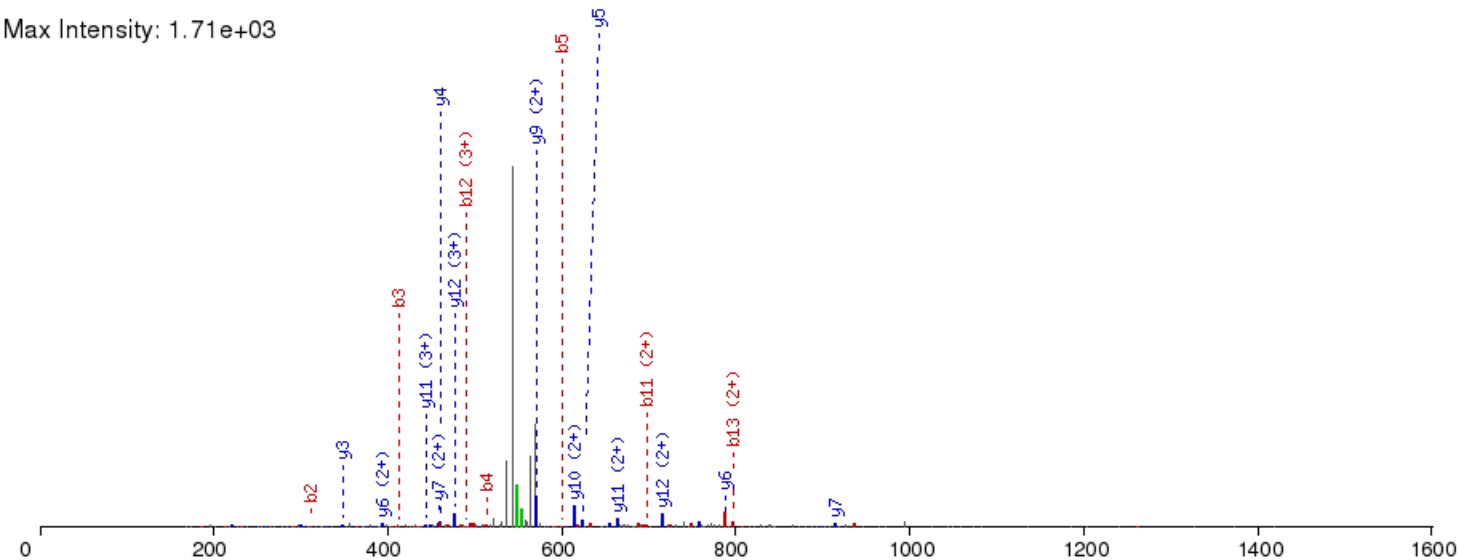
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		1009.46	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y-79.97		929.50								y-79.97
y-97.98		911.48								y-97.98
y (2+)		505.23	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y-79.97 (2+)		465.25								y-79.97 (2+)
y-97.98 (2+)		456.25								y-97.98 (2+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

ET(+79.97)TTSPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281
Data File: ppeptidemix4_CID_Orbi, Scans: 1415 - 1415

Max Intensity: 1.71e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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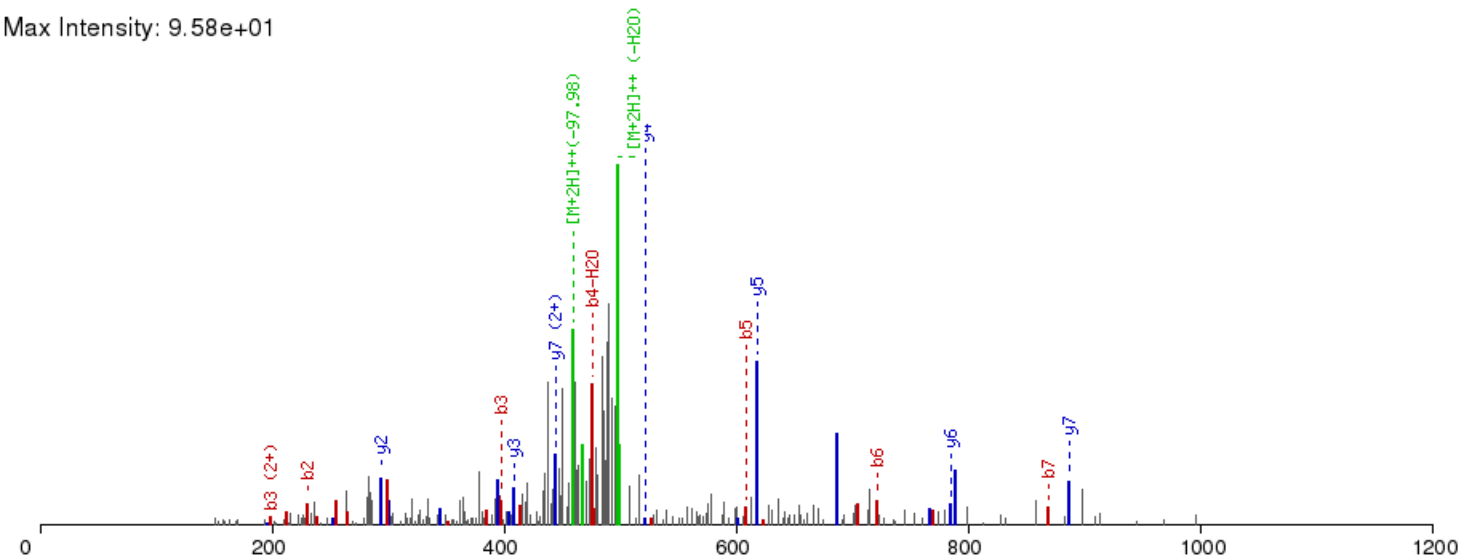
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		283.07													a
a-79.97		203.10													a-79.97
a-97.98		185.09													a-97.98
b		311.06	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97		231.10	332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98		213.09	314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1428.77	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82													y-79.97
y-97.98		1511.81													y-97.98
y (2+)		805.40	714.89	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41													y-79.97 (2+)
y-97.98 (2+)		756.41													y-97.98 (2+)
y (3+)		537.27	476.93	443.25	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61													y-79.97 (3+)
y-97.98 (3+)		504.61													y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

KTS(+79.97)PLNFK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 507.754, Calc. m/z: 507.752
Data File: ppeptidemix1_CID_Orbi, Scans: 1643 - 1643

Max Intensity: 9.58e+01



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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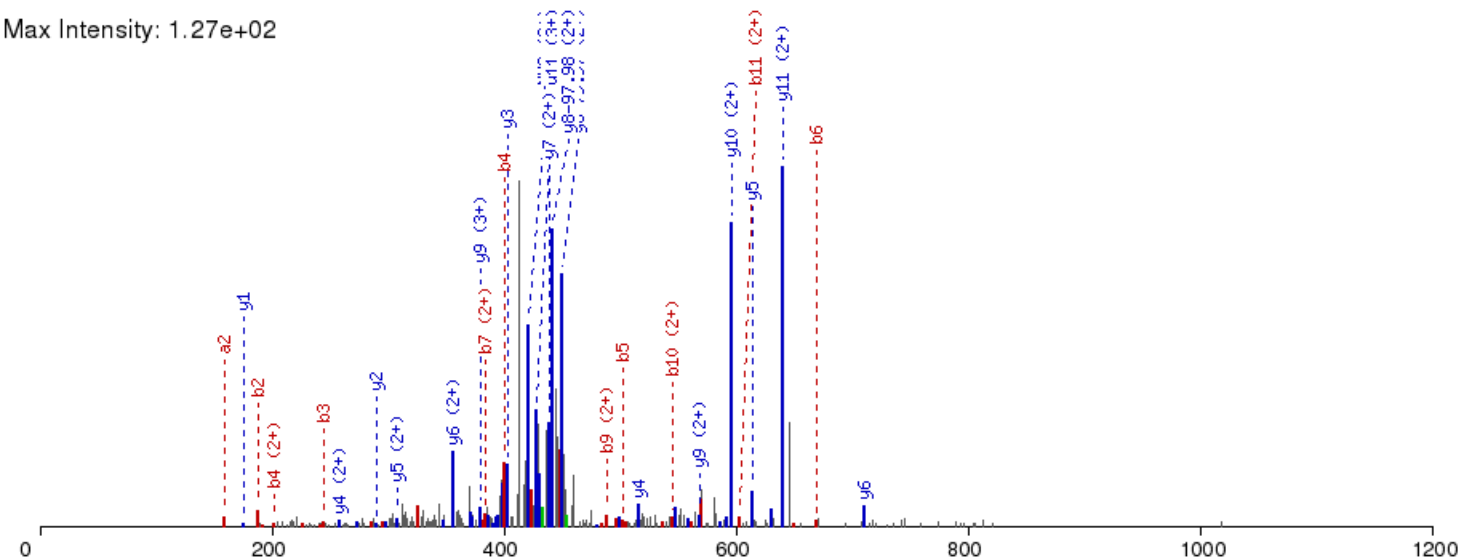
	K	T	S	P	L	N	F	K	
	1	2	3	4	5	6	7	8	
a		202.16							a
a (2+)		101.58							a (2+)
b		230.15	397.15	494.20	607.29	721.33	868.40		b
b-79.97			317.18	414.23	527.32	641.36	788.43		b-79.97
b-97.98			299.17	396.22	509.31	623.35	770.42		b-97.98
b (2+)		115.58	199.08	247.60	304.15	361.17	434.70		b (2+)
b-79.97 (2+)			159.09	207.62	264.16	321.18	394.72		b-79.97 (2+)
b-97.98 (2+)			150.09	198.62	255.16	312.18	385.71		b-97.98 (2+)
y		886.41	785.36	618.36	521.31	408.22	294.18	147.11	y
y-79.97		806.44	705.39						y-79.97
y-97.98		788.43	687.38						y-97.98
y (2+)		443.71	393.18	309.68	261.16	204.62	147.59	74.06	y (2+)
y-79.97 (2+)		403.72	353.20						y-79.97 (2+)
y-97.98 (2+)		394.72	344.19						y-97.98 (2+)
	K	T	S	P	L	N	F	K	
	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 459.900, Calc. m/z: 459.901
Data File: ppeptidemix5_CID_Orbi, Scans: 1387 - 1387

Max Intensity: 1.27e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
y (3+)		426.88	397.87	378.86									y (3+)
y-79.97 (3+)		400.22	371.21	352.20									y-79.97 (3+)
y-97.98 (3+)		394.22	365.21	346.20									y-97.98 (3+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

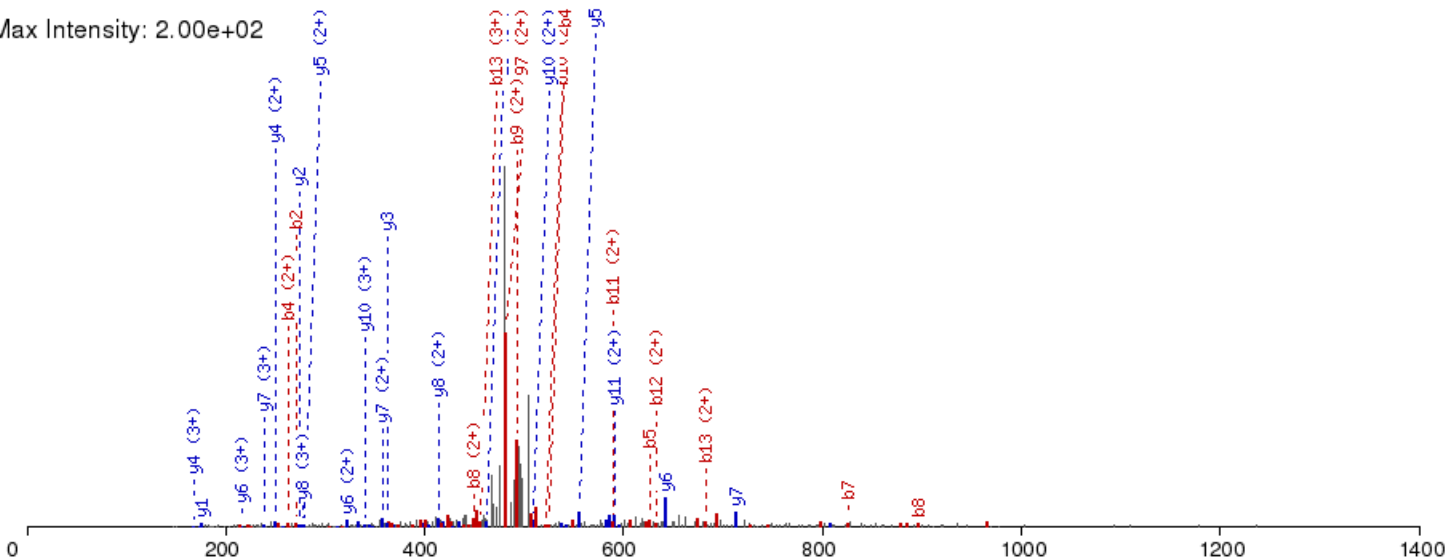
RLSS(+79.97)TSLASGHSVR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 513.254, Calc. m/z: 513.254

Data File: ppeptidemix5_CID_Orbi, Scans: 1139 - 1139

Max Intensity: 2.00e+02



Sequence Ladder Ions

Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion

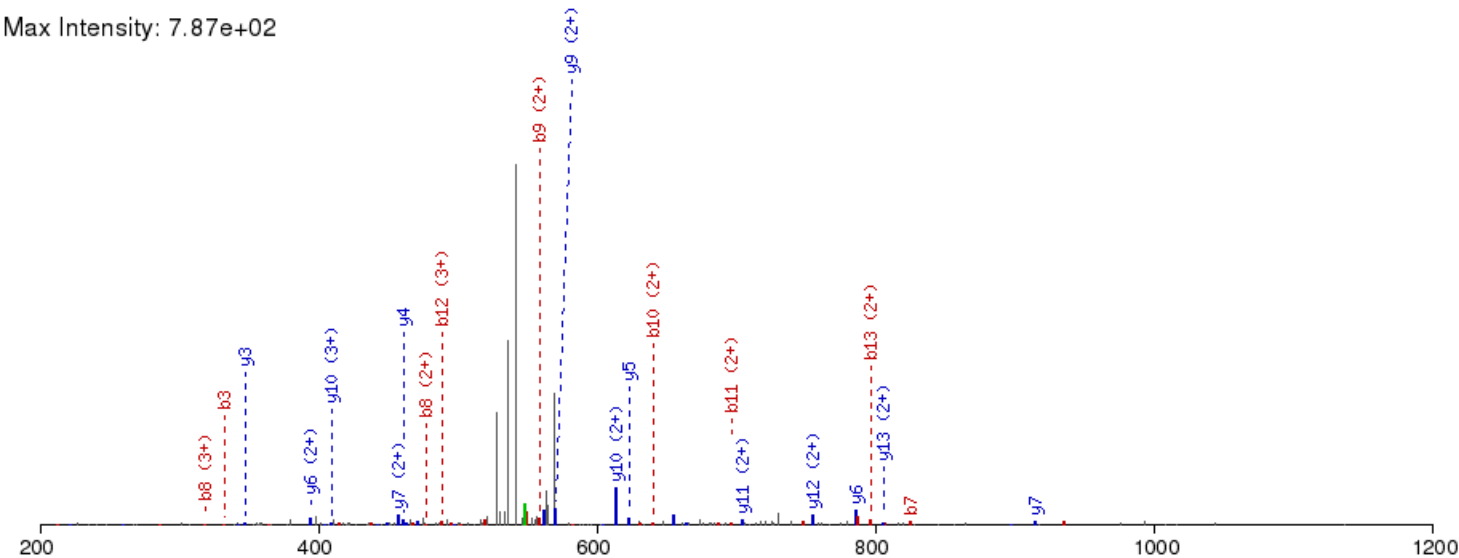
	R	L	S	S	T	S	L	A	S	G	H	S	V	R	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		242.20													a
a (2+)		121.60													a (2+)
b		270.19	357.22	524.22	625.27	712.30	825.39	896.42	983.46	1040.48	1177.54	1264.57	1363.64		b
b-79.97				444.26	545.30	632.34	745.42	816.46	903.49	960.51	1097.57	1184.60	1283.67		b-79.97
b-97.98				426.25	527.29	614.33	727.41	798.45	885.48	942.50	1079.56	1166.59	1265.66		b-97.98
b (2+)		135.60	179.12	262.62	313.14	356.65	413.20	448.72	492.23	520.74	589.27	632.79	682.32		b (2+)
b-79.97 (2+)				222.63	273.16	316.67	373.21	408.73	452.25	480.76	549.29	592.80	642.34		b-79.97 (2+)
b-97.98 (2+)				213.63	264.15	307.67	364.21	399.73	443.24	471.75	540.28	583.80	633.33		b-97.98 (2+)
b (3+)											393.18	422.19	455.22		b (3+)
b-79.97 (3+)											366.53	395.54	428.56		b-79.97 (3+)
b-97.98 (3+)											360.52	389.54	422.56		b-97.98 (3+)
y		1381.65	1268.56	1181.53	1014.53	913.49	826.45	713.37	642.33	555.30	498.28	361.22	274.19	175.12	y
y-79.97		1301.68	1188.60	1101.56											y-79.97
y-97.98		1283.67	1170.59	1083.55											y-97.98
y (2+)		691.33	634.79	591.27	507.77	457.25	413.73	357.19	321.67	278.15	249.64	181.11	137.60	88.06	y (2+)
y-79.97 (2+)		651.34	594.80	551.29											y-79.97 (2+)
y-97.98 (2+)		642.34	585.80	542.28											y-97.98 (2+)
y (3+)		461.22	423.53	394.52	338.85	305.17	276.16	238.46	214.78	185.77	166.76				y (3+)
y-79.97 (3+)		434.57	396.87	367.86											y-79.97 (3+)
y-97.98 (3+)		428.56	390.87	361.86											y-97.98 (3+)
	R	L	S	S	T	S	L	A	S	G	H	S	V	R	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ETTT(+79.97)SPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281
Data File: ppeptidemix1_CID_Orbi, Scans: 1358 - 1358

Max Intensity: 7.87e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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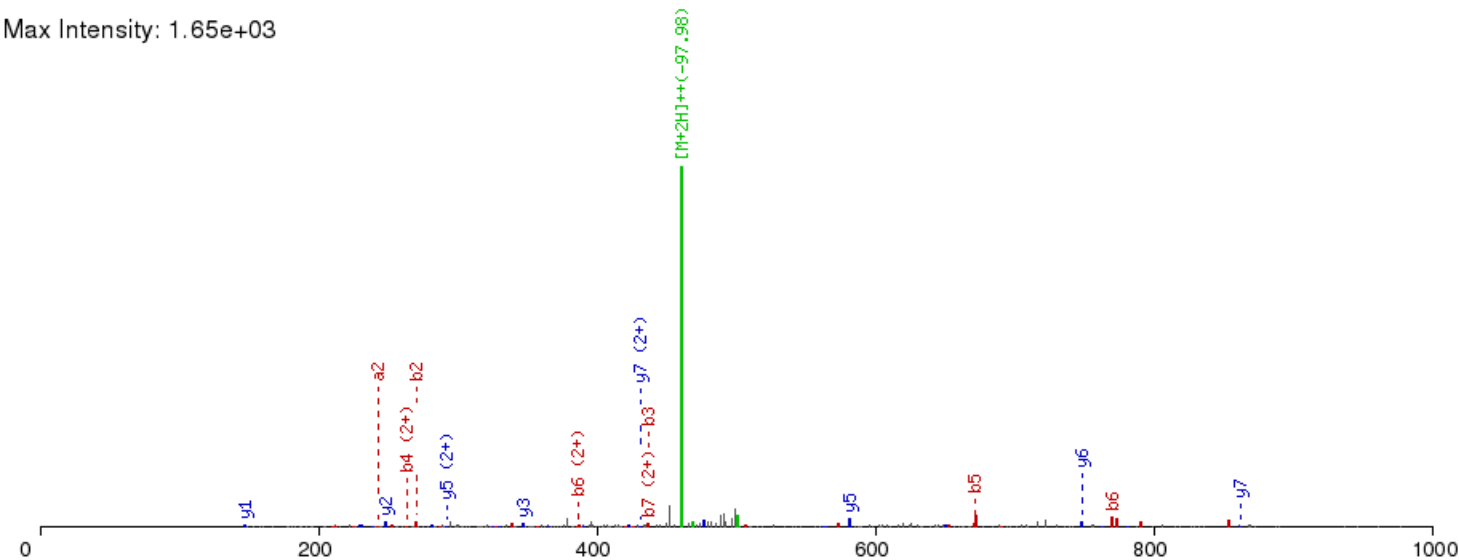
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		203.10													a
b		231.10	332.15	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97				433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98				415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1508.74	1407.69	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82	1428.77	1327.73											y-79.97
y-97.98		1511.81	1410.76	1309.72											y-97.98
y (2+)		805.40	754.87	704.35	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41	714.89	664.37											y-79.97 (2+)
y-97.98 (2+)		756.41	705.88	655.36											y-97.98 (2+)
y (3+)		537.27	503.58	469.90	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61	476.93	443.25											y-79.97 (3+)
y-97.98 (3+)		504.61	470.93	437.24											y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

RLS(+79.97)SFVTK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 509.260, Calc. m/z: 509.262
Data File: ppeptidemix1_CID_Orbi, Scans: 1720 - 1720

Max Intensity: 1.65e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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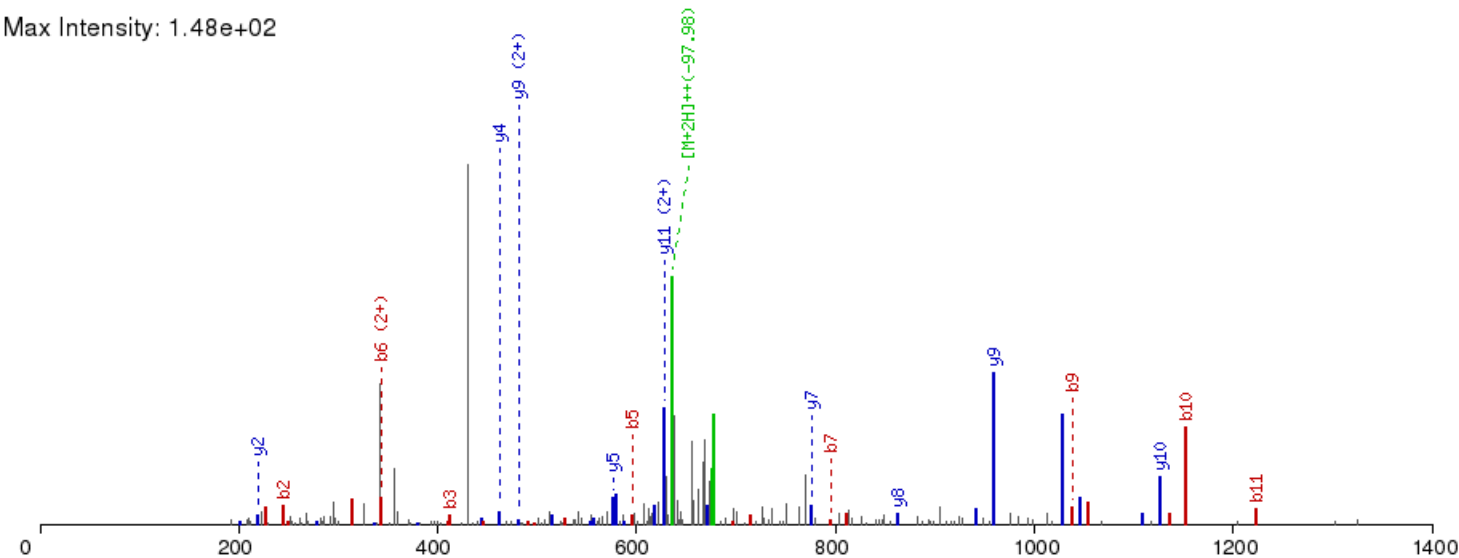
	R	L	S	S	F	V	T	K	
	1	2	3	4	5	6	7	8	
a		242.20							a
a (2+)		121.60							a (2+)
b		270.19	437.19	524.22	671.29	770.36	871.41		b
b-79.97			357.22	444.26	591.32	690.39	791.44		b-79.97
b-97.98			339.21	426.25	573.31	672.38	773.43		b-97.98
b (2+)		135.60	219.10	262.62	336.15	385.68	436.21		b (2+)
b-79.97 (2+)			179.12	222.63	296.17	345.70	396.22		b-79.97 (2+)
b-97.98 (2+)			170.11	213.63	287.16	336.70	387.22		b-97.98 (2+)
y		861.41	748.33	581.33	494.30	347.23	248.16	147.11	y
y-79.97		781.45	668.36						y-79.97
y-97.98		763.43	650.35						y-97.98
y (2+)		431.21	374.67	291.17	247.65	174.12	124.58	74.06	y (2+)
y-79.97 (2+)		391.23	334.68						y-79.97 (2+)
y-97.98 (2+)		382.22	325.68						y-97.98 (2+)
	R	L	S	S	F	V	T	K	
	8	7	6	5	4	3	2	1	

DKS(+79.97)PSSLLEDAK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 685.316, Calc. m/z: 685.317
Data File: ppeptidemix1_CID_Orbi, Scans: 1885 - 1885

Max Intensity: 1.48e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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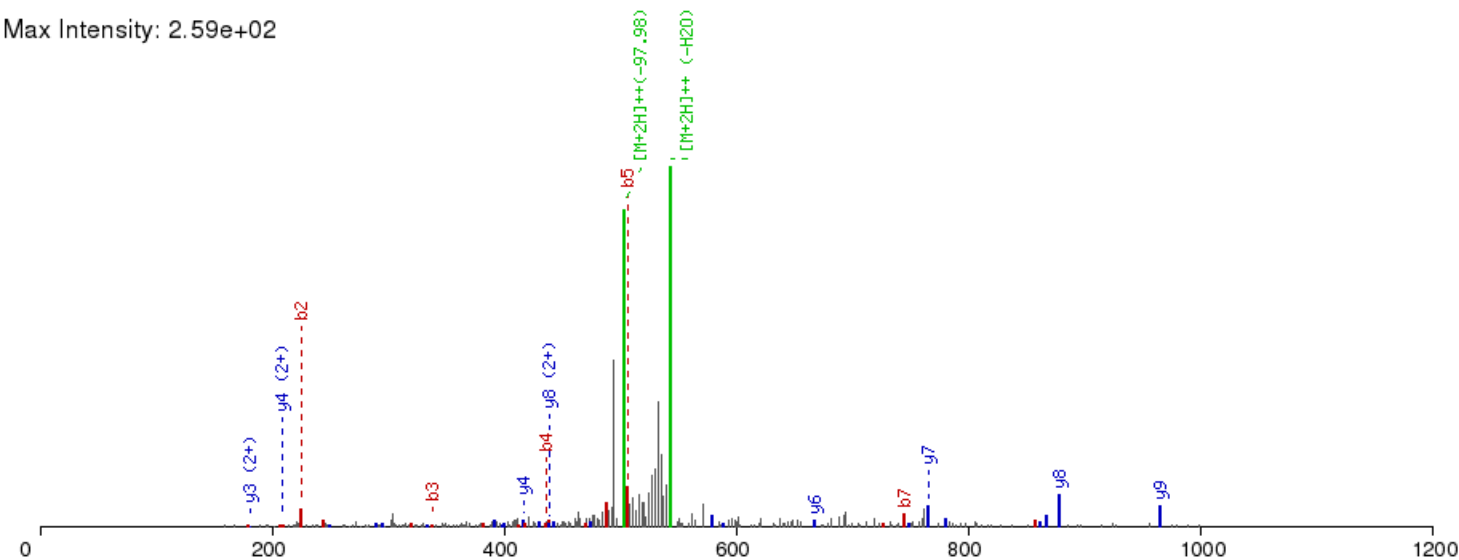
	D	K	S	P	S	S	L	L	E	D	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.13											a
a (2+)		108.57											a (2+)
b		244.13	411.13	508.18	595.21	682.24	795.33	908.41	1037.46	1152.48	1223.52		b
b-79.97			331.16	428.21	515.25	602.28	715.36	828.45	957.49	1072.52	1143.55		b-79.97
b-97.98			313.15	410.20	497.24	584.27	697.35	810.44	939.48	1054.51	1125.54		b-97.98
b (2+)		122.57	206.07	254.59	298.11	341.63	398.17	454.71	519.23	576.74	612.26		b (2+)
b-79.97 (2+)			166.08	214.61	258.13	301.64	358.18	414.73	479.25	536.76	572.28		b-79.97 (2+)
b-97.98 (2+)			157.08	205.61	249.12	292.64	349.18	405.72	470.24	527.76	563.27		b-97.98 (2+)
y		1254.60	1126.50	959.50	862.45	775.42	688.39	575.30	462.22	333.18	218.15	147.11	y
y-79.97		1174.63	1046.54										y-79.97
y-97.98		1156.62	1028.53										y-97.98
y (2+)		627.80	563.76	480.26	431.73	388.21	344.70	288.16	231.61	167.09	109.58	74.06	y (2+)
y-79.97 (2+)		587.82	523.77										y-79.97 (2+)
y-97.98 (2+)		578.81	514.77										y-97.98 (2+)
	D	K	S	P	S	S	L	L	E	D	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

HSLPAT(+79.97)GVLK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 551.786, Calc. m/z: 551.787
Data File: ppeptidemix1_CID_Orbi, Scans: 1838 - 1838

Max Intensity: 2.59e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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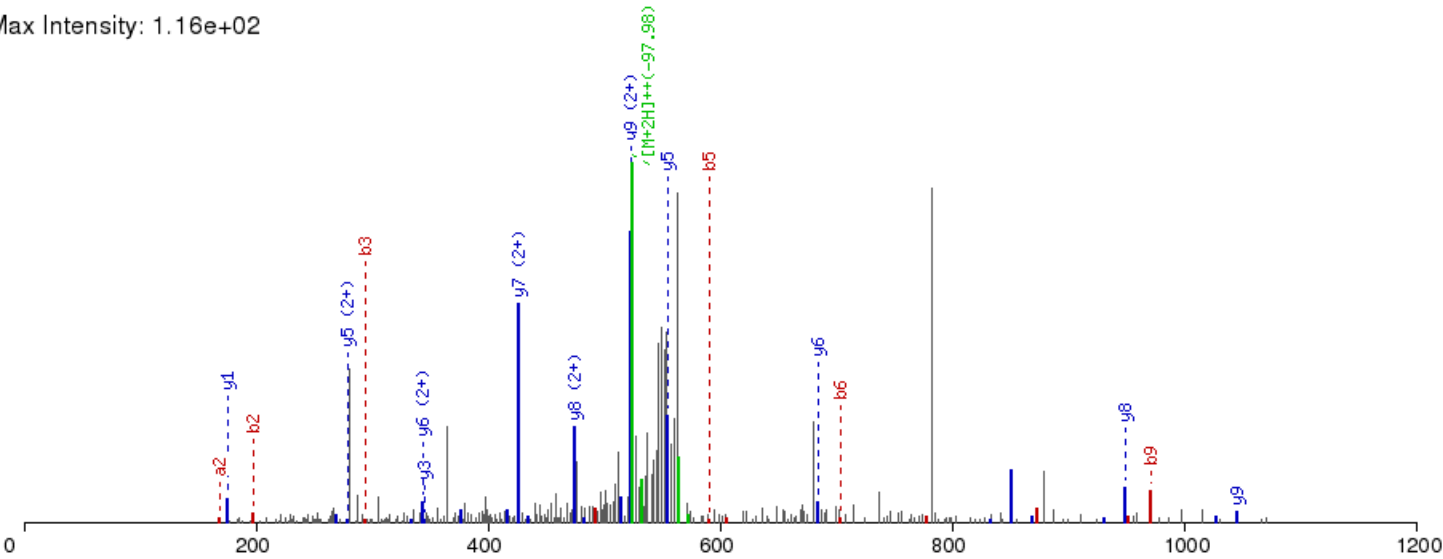
	H	S	L	P	A	T	G	V	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		197.10									a
a (2+)		99.06									a (2+)
b		225.10	338.18	435.24	506.27	687.29	744.31	843.38	956.46		b
b-79.97						607.32	664.34	763.41	876.49		b-79.97
b-97.98						589.31	646.33	745.40	858.48		b-97.98
b (2+)		113.05	169.59	218.12	253.64	344.15	372.66	422.19	478.73		b (2+)
b-79.97 (2+)						304.16	332.67	382.21	438.75		b-79.97 (2+)
b-97.98 (2+)						295.16	323.67	373.20	429.75		b-97.98 (2+)
y		965.51	878.47	765.39	668.34	597.30	416.29	359.27	260.20	147.11	y
y-79.97		885.54	798.51	685.42	588.37	517.33					y-79.97
y-97.98		867.53	780.50	667.41	570.36	499.32					y-97.98
y (2+)		483.26	439.74	383.20	334.67	299.15	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		443.27	399.76	343.22	294.69	259.17					y-79.97 (2+)
y-97.98 (2+)		434.27	390.75	334.21	285.68	250.17					y-97.98 (2+)
	H	S	L	P	A	T	G	V	L	K	
	10	9	8	7	6	5	4	3	2	1	

VPPS(+79.97)ELPGLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 572.792, Calc. m/z: 572.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2246 - 2246

Max Intensity: 1.16e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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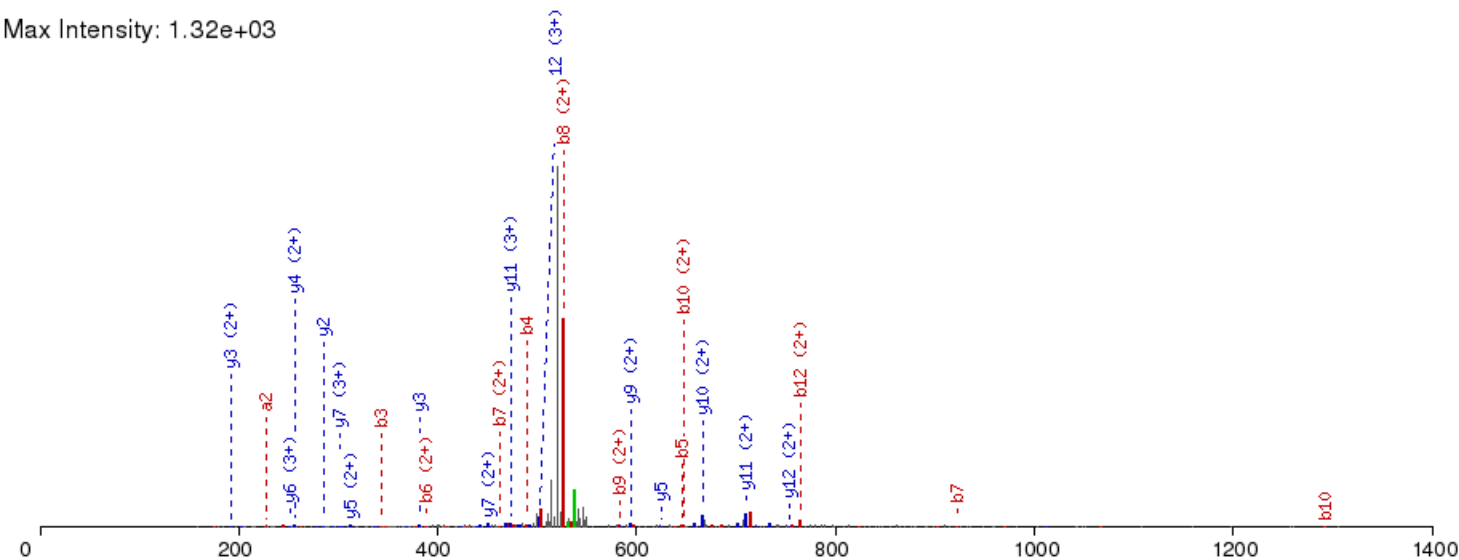
	V	P	P	S	E	L	P	G	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		169.13									a
b		197.13	294.18	461.18	590.22	703.31	800.36	857.38	970.46		b
b-79.97				381.21	510.26	623.34	720.39	777.41	890.50		b-79.97
b-97.98				363.20	492.25	605.33	702.38	759.40	872.49		b-97.98
y		1045.51	948.45	851.40	684.40	555.36	442.28	345.22	288.20	175.12	y
y-79.97		965.54	868.49	771.44							y-79.97
y-97.98		947.53	850.48	753.43							y-97.98
y (2+)		523.26	474.73	426.20	342.71	278.18	221.64	173.12	144.61	88.06	y (2+)
y-79.97 (2+)		483.27	434.75	386.22							y-79.97 (2+)
y-97.98 (2+)		474.27	425.74	377.22							y-97.98 (2+)
	V	P	P	S	E	L	P	G	L	R	
	10	9	8	7	6	5	4	3	2	1	

S(+79.97)SSFREM(+15.99)ENQPHK

Identified in MSS764 1 x Oxidation (M) 1 x Phospho (ST)

Charge: 3, Exp. m/z: 558.231, Calc. m/z: 558.231
Data File: ppeptidemix3_CID_Orbi, Scans: 942 - 942

Max Intensity: 1.32e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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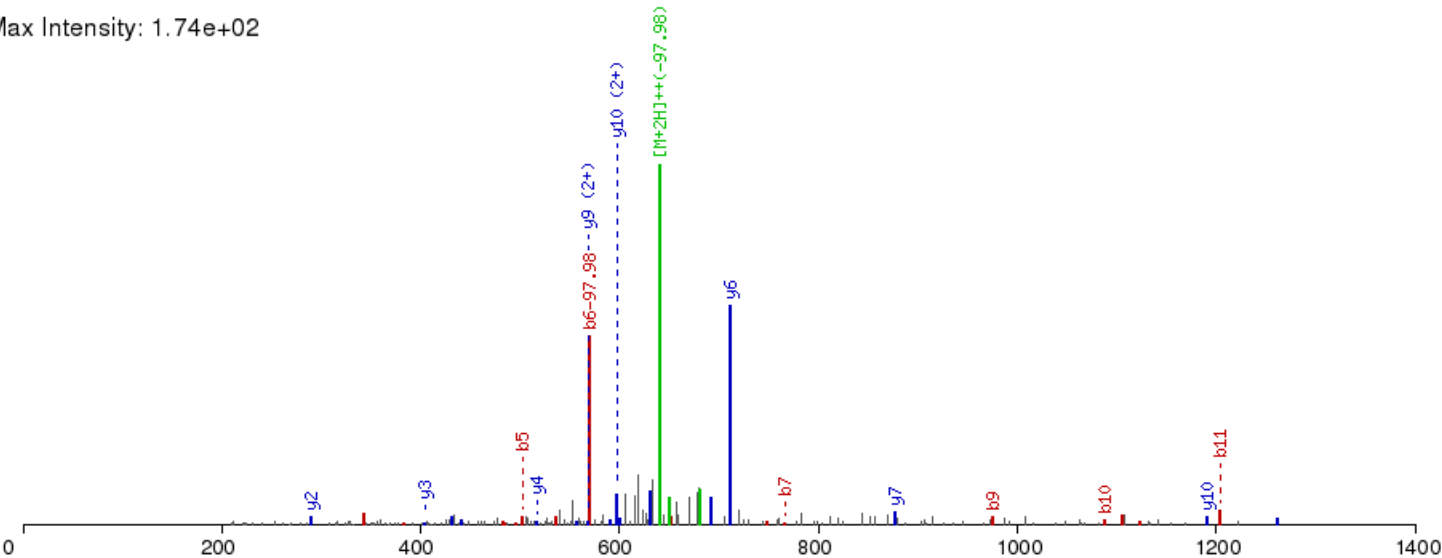
	S	S	S	F	R	E	M	E	N	Q	P	H	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
a		227.04												a
a-79.97		147.08												a-79.97
a-97.98		129.07												a-97.98
b		255.04	342.07	489.14	645.24	774.28	921.32	1050.36	1164.40	1292.46	1389.51	1526.57		b
b-15.99							905.32	1034.36	1148.41	1276.47	1373.52	1510.58		b-15.99
b-64.00							857.32	986.36	1100.40	1228.46	1325.52	1462.57		b-64.00
b-79.97		175.07	262.10	409.17	565.27	694.32	841.35	970.39	1084.44	1212.49	1309.55	1446.61		b-79.97
b-97.98		157.06	244.09	391.16	547.26	676.30	823.34	952.38	1066.43	1194.48	1291.54	1428.60		b-97.98
b (2+)					323.12	387.64	461.16	525.68	582.70	646.73	695.26	763.79		b (2+)
b-15.99 (2+)							453.16	517.69	574.71	638.74	687.26	755.79		b-15.99 (2+)
b-64.00 (2+)							429.16	493.68	550.71	614.74	663.26	731.79		b-64.00 (2+)
b-79.97 (2+)					283.14	347.66	421.18	485.70	542.72	606.75	655.28	723.81		b-79.97 (2+)
b-97.98 (2+)					274.13	338.66	412.17	476.70	533.72	597.75	646.27	714.80		b-97.98 (2+)
b (3+)												509.53		b (3+)
b-15.99 (3+)												504.20		b-15.99 (3+)
b-64.00 (3+)												488.20		b-64.00 (3+)
b-79.97 (3+)												482.87		b-79.97 (3+)
b-97.98 (3+)												476.87		b-97.98 (3+)
y		1505.68	1418.65	1331.62	1184.55	1028.45	899.40	752.37	623.33	509.28	381.22	284.17	147.11	y
y-15.99		1489.69	1402.65	1315.62	1168.55	1012.45	883.41							y-15.99
y-64.00		1441.68	1354.65	1267.62	1120.55	964.45	835.41							y-64.00
y (2+)		753.34	709.83	666.31	592.78	514.73	450.21	376.69	312.17	255.15	191.12	142.59	74.06	y (2+)
y-15.99 (2+)		745.35	701.83	658.31	584.78	506.73	442.21							y-15.99 (2+)
y-64.00 (2+)		721.34	677.83	634.31	560.78	482.73	418.21							y-64.00 (2+)
y (3+)		502.56	473.55	444.54	395.52	343.49	300.47	251.46	208.45	170.43	127.75	95.40		y (3+)
y-15.99 (3+)		497.23	468.22	439.21	390.19	338.16	295.14							y-15.99 (3+)
y-64.00 (3+)		481.23	452.22	423.21	374.19	322.15	279.14							y-64.00 (3+)
	S	S	S	F	R	E	M	E	N	Q	P	H	K	
	13	12	11	10	9	8	7	6	5	4	3	2	1	

VSGRTS(+79.97)PPLDR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 689.348, Calc. m/z: 689.347
Data File: ppeptidemix5_CID_Orbi, Scans: 1431 - 1431

Max Intensity: 1.74e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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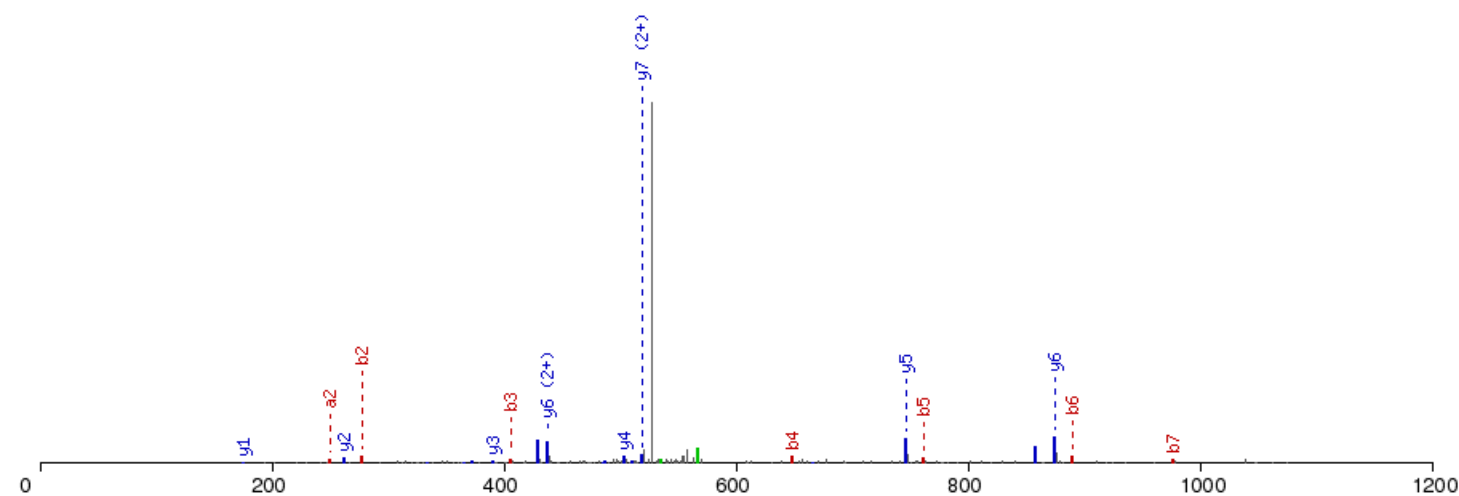
	V	S	G	R	T	S	P	P	L	L	D	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		159.11											a
b		187.11	244.13	400.23	501.28	668.28	765.33	862.38	975.47	1088.55	1203.58		b
b-79.97						588.31	685.36	782.42	895.50	1008.58	1123.61		b-79.97
b-97.98						570.30	667.35	764.40	877.49	990.57	1105.60		b-97.98
b (2+)				200.62	251.14	334.64	383.17	431.69	488.24	544.78	602.29		b (2+)
b-79.97 (2+)						294.66	343.19	391.71	448.25	504.80	562.31		b-79.97 (2+)
b-97.98 (2+)						285.65	334.18	382.71	439.25	495.79	553.30		b-97.98 (2+)
y		1278.62	1191.59	1134.57	978.47	877.42	710.42	613.37	516.31	403.23	290.15	175.12	y
y-79.97		1198.65	1111.62	1054.60	898.50	797.45							y-79.97
y-97.98		1180.64	1093.61	1036.59	880.49	779.44							y-97.98
y (2+)		639.81	596.30	567.79	489.74	439.21	355.71	307.19	258.66	202.12	145.58	88.06	y (2+)
y-79.97 (2+)		599.83	556.31	527.80	449.75	399.23							y-79.97 (2+)
y-97.98 (2+)		590.83	547.31	518.80	440.75	390.22							y-97.98 (2+)
	V	S	G	R	T	S	P	P	L	L	D	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

IYQY(+79.97)IQSR

Identified in MSS764 1 x Phospho (Y)

Charge: 2, Exp. m/z: 576.275, Calc. m/z: 575.767
Data File: ppeptidemix3_CID_Orbi, Scans: 1627 - 1627

Max Intensity: 1.72e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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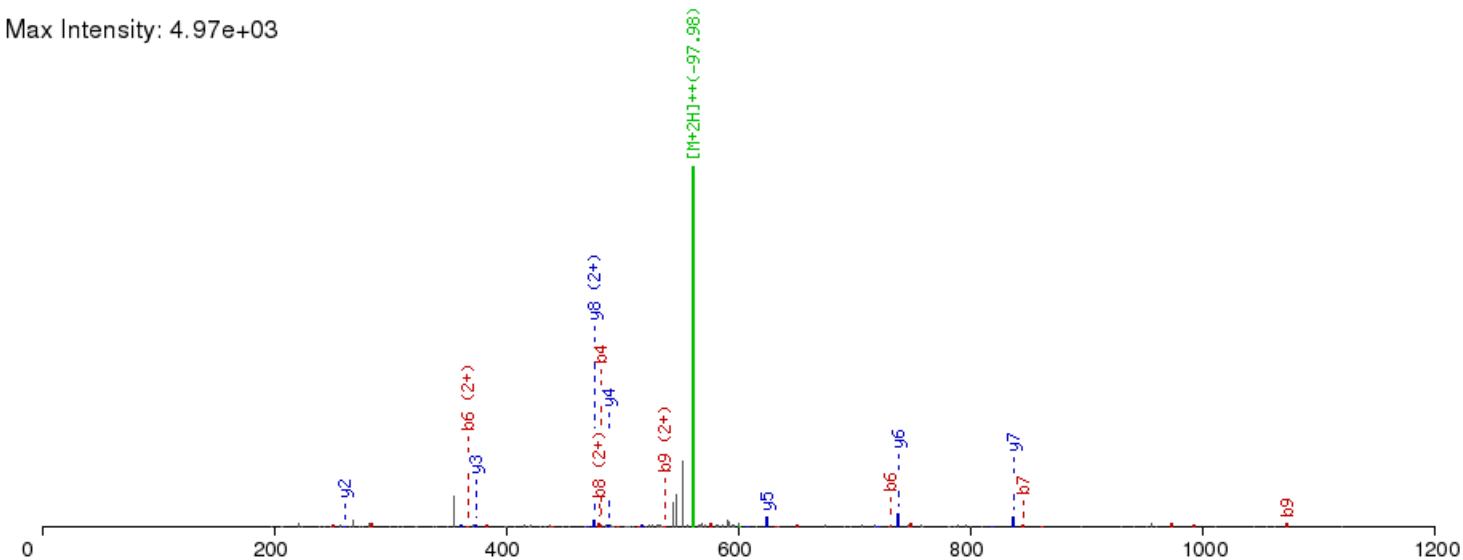
	I	Y	Q	Y	I	Q	S	R	
	1	2	3	4	5	6	7	8	
a		249.16							a
b		277.15	405.21	648.24	761.33	889.39	976.42		b
b-79.97				568.28	681.36	809.42	896.45		b-79.97
y		1037.45	874.38	746.32	503.29	390.21	262.15	175.12	y
y-79.97		957.48	794.42	666.36					y-79.97
y (2+)		519.23	437.69	373.67	252.15	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		479.24	397.71	333.68					y-79.97 (2+)
	I	Y	Q	Y	I	Q	S	R	
	8	7	6	5	4	3	2	1	

S(+79.97)TLVLHDLLK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 609.828, Calc. m/z: 609.827
Data File: ppeptidemix1_CID_Orbi, Scans: 2498 - 2498

Max Intensity: 4.97e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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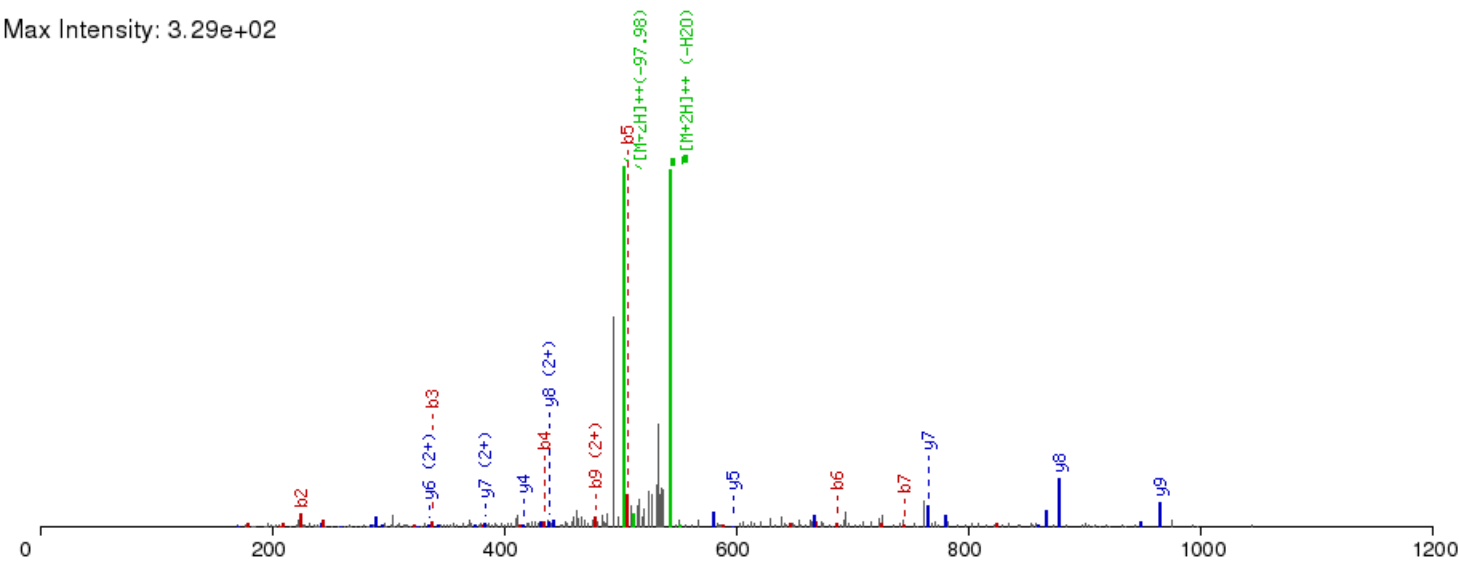
	S	T	L	V	L	H	D	L	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		241.06									a
a-79.97		161.09									a-79.97
a-97.98		143.08									a-97.98
b		269.05	382.14	481.21	594.29	731.35	846.38	959.46	1072.54		b
b-79.97		189.09	302.17	401.24	514.32	651.38	766.41	879.49	992.58		b-79.97
b-97.98		171.08	284.16	383.23	496.31	633.37	748.40	861.48	974.57		b-97.98
b (2+)						366.18	423.69	480.23	536.78		b (2+)
b-79.97 (2+)						326.19	383.71	440.25	496.79		b-79.97 (2+)
b-97.98 (2+)						317.19	374.70	431.25	487.79		b-97.98 (2+)
y		1051.65	950.60	837.52	738.45	625.37	488.31	373.28	260.20	147.11	y
y (2+)		526.33	475.81	419.26	369.73	313.19	244.66	187.14	130.60	74.06	y (2+)
	S	T	L	V	L	H	D	L	L	K	
	10	9	8	7	6	5	4	3	2	1	

HSLPAT(+79.97)GVLK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 551.786, Calc. m/z: 551.792
Data File: ppeptidemix1_CID_Orbi, Scans: 1802 - 1802

Max Intensity: 3.29e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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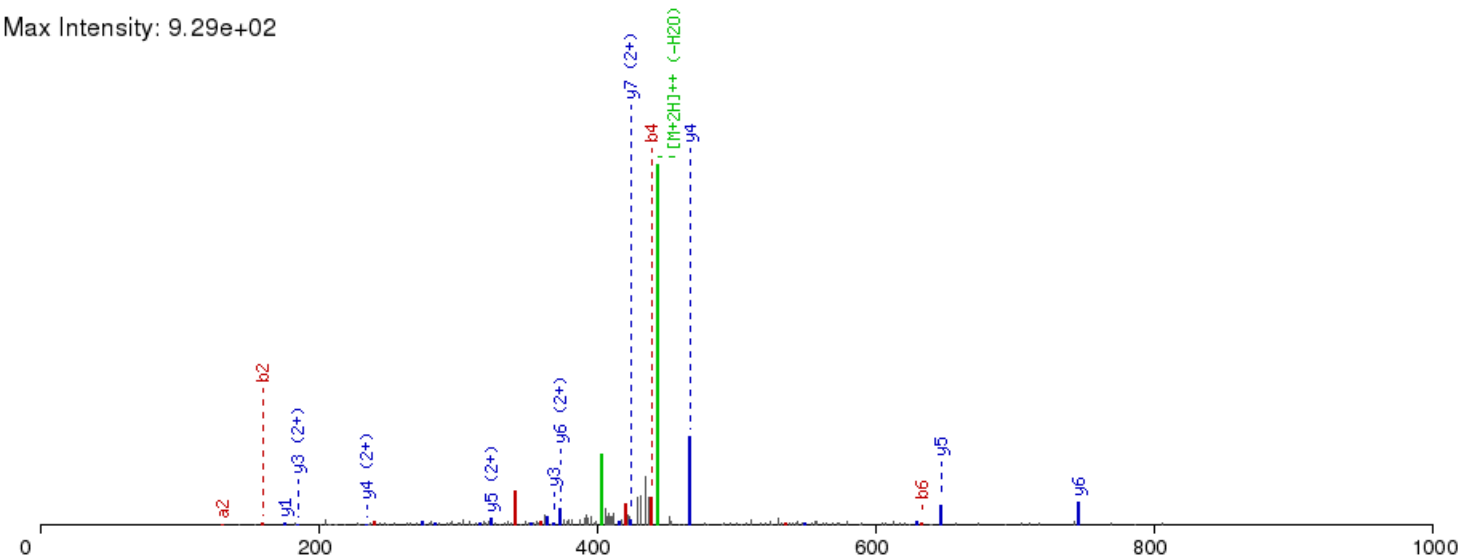
	H	S	L	P	A	T	G	V	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		197.10									a
a (2+)		99.06									a (2+)
b		225.10	338.18	435.24	506.27	687.29	744.31	843.38	956.46		b
b-79.97						607.32	664.34	763.41	876.49		b-79.97
b-97.98						589.31	646.33	745.40	858.48		b-97.98
b (2+)		113.05	169.59	218.12	253.64	344.15	372.66	422.19	478.73		b (2+)
b-79.97 (2+)						304.16	332.67	382.21	438.75		b-79.97 (2+)
b-97.98 (2+)						295.16	323.67	373.20	429.75		b-97.98 (2+)
y		965.51	878.47	765.39	668.34	597.30	416.29	359.27	260.20	147.11	y
y-79.97		885.54	798.51	685.42	588.37	517.33					y-79.97
y-97.98		867.53	780.50	667.41	570.36	499.32					y-97.98
y (2+)		483.26	439.74	383.20	334.67	299.15	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		443.27	399.76	343.22	294.69	259.17					y-79.97 (2+)
y-97.98 (2+)		434.27	390.75	334.21	285.68	250.17					y-97.98 (2+)
	H	S	L	P	A	T	G	V	L	K	
	10	9	8	7	6	5	4	3	2	1	

GTVT(+79.97)PPPR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 452.718, Calc. m/z: 452.718
Data File: ppeptidemix3_CID_Orbi, Scans: 1090 - 1090

Max Intensity: 9.29e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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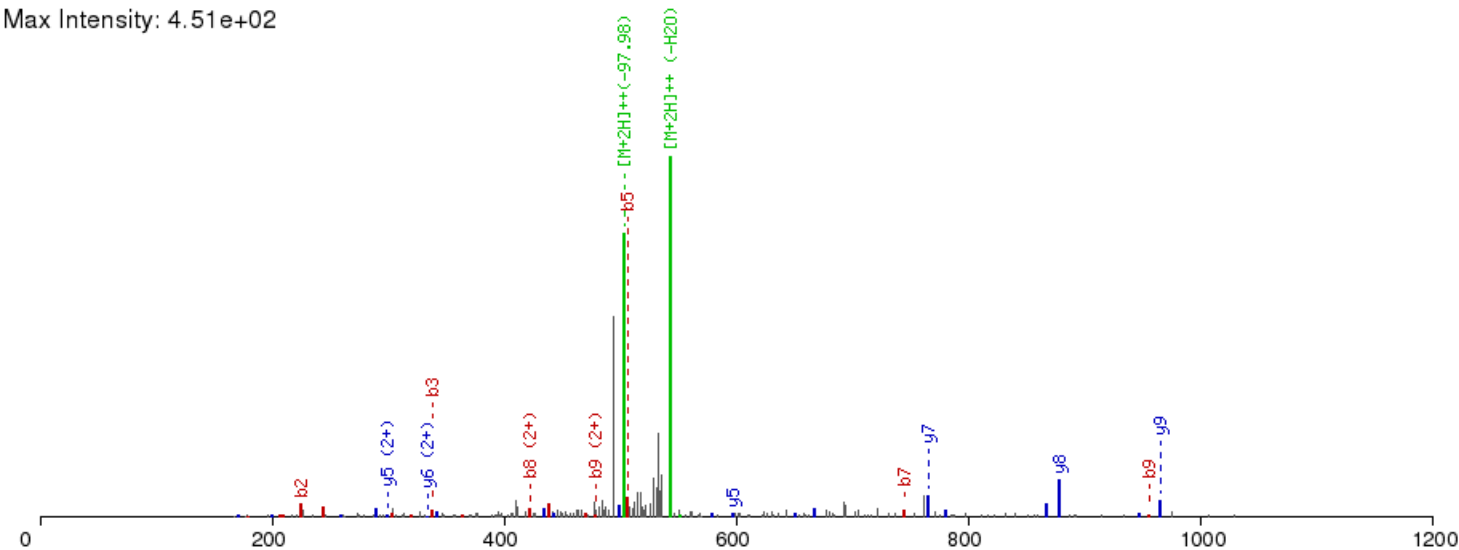
	G	T	V	T	P	P	P	R	
	1	2	3	4	5	6	7	8	
a		131.08							a
b		159.08	258.14	439.16	536.21	633.26	730.32		b
b-79.97				359.19	456.25	553.30	650.35		b-79.97
b-97.98				341.18	438.23	535.29	632.34		b-97.98
y		847.41	746.36	647.29	466.28	369.22	272.17	175.12	y
y-79.97		767.44	666.39	567.32					y-79.97
y-97.98		749.43	648.38	549.31					y-97.98
y (2+)		424.21	373.68	324.15	233.64	185.12	136.59	88.06	y (2+)
y-79.97 (2+)		384.22	333.70	284.17					y-79.97 (2+)
y-97.98 (2+)		375.22	324.70	275.16					y-97.98 (2+)
	G	T	V	T	P	P	P	R	
	8	7	6	5	4	3	2	1	

HSLPAT(+79.97)GVLK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 551.786, Calc. m/z: 551.787
Data File: ppeptidemix1_CID_Orbi, Scans: 1831 - 1831

Max Intensity: 4.51e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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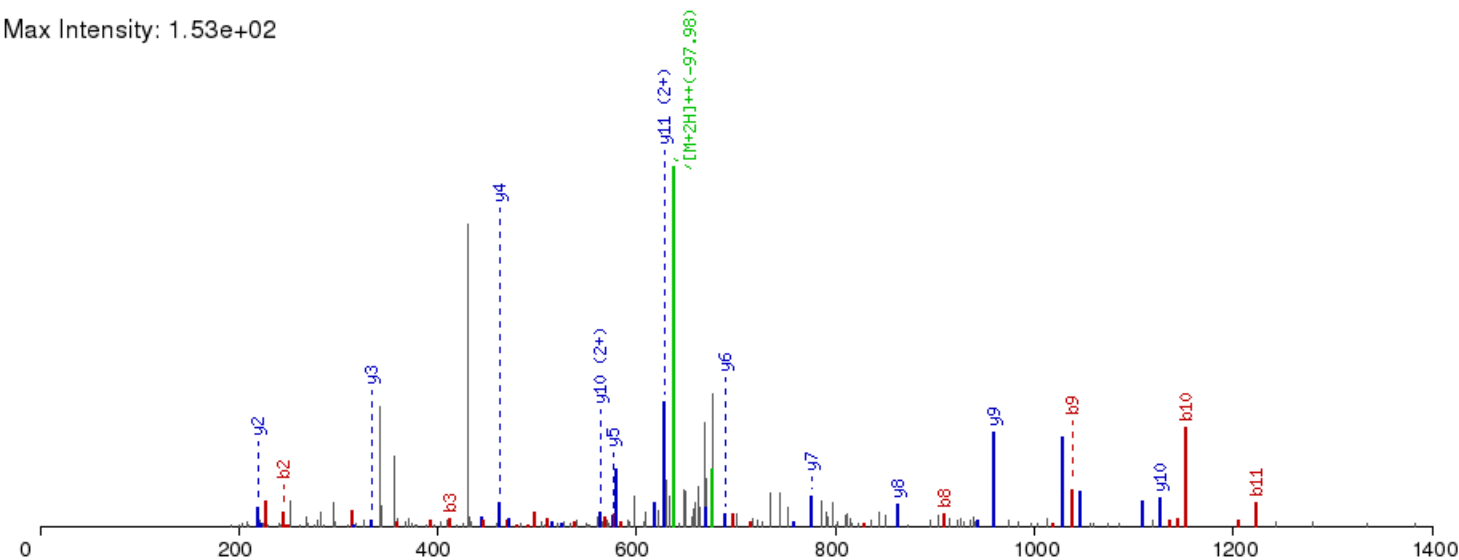
	H	S	L	P	A	T	G	V	L	K	
	1	2	3	4	5	6	7	8	9	10	
a		197.10									a
a (2+)		99.06									a (2+)
b		225.10	338.18	435.24	506.27	687.29	744.31	843.38	956.46		b
b-79.97						607.32	664.34	763.41	876.49		b-79.97
b-97.98						589.31	646.33	745.40	858.48		b-97.98
b (2+)		113.05	169.59	218.12	253.64	344.15	372.66	422.19	478.73		b (2+)
b-79.97 (2+)						304.16	332.67	382.21	438.75		b-79.97 (2+)
b-97.98 (2+)						295.16	323.67	373.20	429.75		b-97.98 (2+)
y		965.51	878.47	765.39	668.34	597.30	416.29	359.27	260.20	147.11	y
y-79.97		885.54	798.51	685.42	588.37	517.33					y-79.97
y-97.98		867.53	780.50	667.41	570.36	499.32					y-97.98
y (2+)		483.26	439.74	383.20	334.67	299.15	208.65	180.14	130.60	74.06	y (2+)
y-79.97 (2+)		443.27	399.76	343.22	294.69	259.17					y-79.97 (2+)
y-97.98 (2+)		434.27	390.75	334.21	285.68	250.17					y-97.98 (2+)
	H	S	L	P	A	T	G	V	L	K	
	10	9	8	7	6	5	4	3	2	1	

DKS(+79.97)PSSLLEDAK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 685.316, Calc. m/z: 685.317
Data File: ppeptidemix1_CID_Orbi, Scans: 1856 - 1856

Max Intensity: 1.53e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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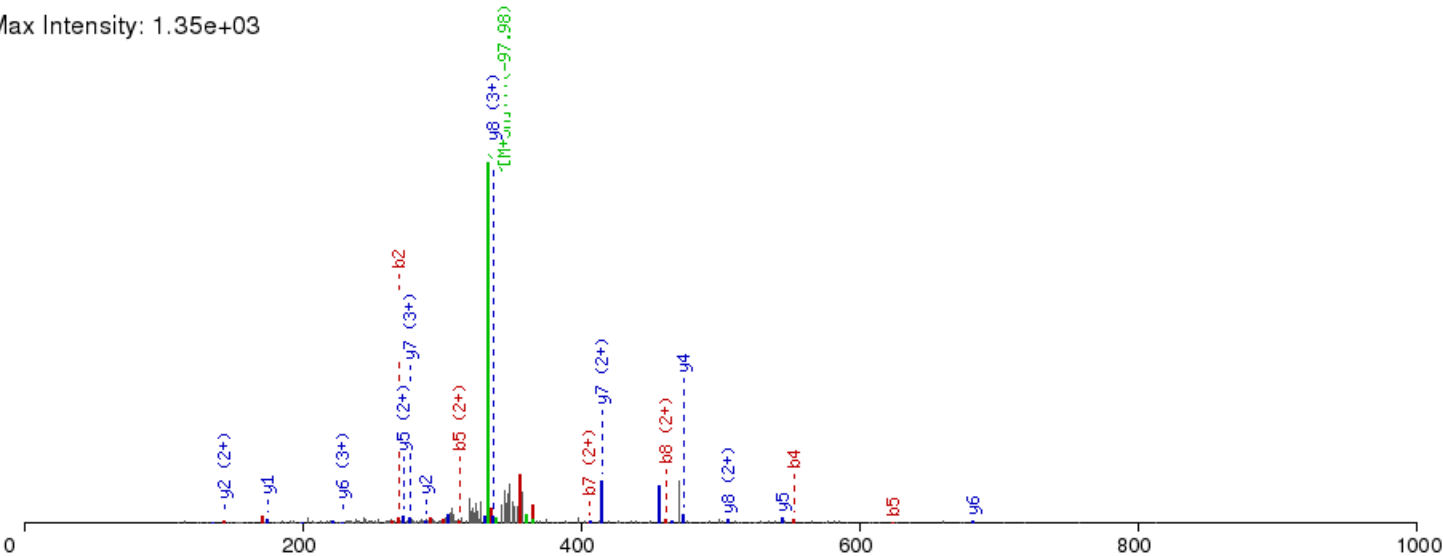
	D	K	S	P	S	S	L	L	E	D	A	K	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		216.13											a
a (2+)		108.57											a (2+)
b		244.13	411.13	508.18	595.21	682.24	795.33	908.41	1037.46	1152.48	1223.52		b
b-79.97			331.16	428.21	515.25	602.28	715.36	828.45	957.49	1072.52	1143.55		b-79.97
b-97.98			313.15	410.20	497.24	584.27	697.35	810.44	939.48	1054.51	1125.54		b-97.98
b (2+)		122.57	206.07	254.59	298.11	341.63	398.17	454.71	519.23	576.74	612.26		b (2+)
b-79.97 (2+)			166.08	214.61	258.13	301.64	358.18	414.73	479.25	536.76	572.28		b-79.97 (2+)
b-97.98 (2+)			157.08	205.61	249.12	292.64	349.18	405.72	470.24	527.76	563.27		b-97.98 (2+)
y		1254.60	1126.50	959.50	862.45	775.42	688.39	575.30	462.22	333.18	218.15	147.11	y
y-79.97		1174.63	1046.54										y-79.97
y-97.98		1156.62	1028.53										y-97.98
y (2+)		627.80	563.76	480.26	431.73	388.21	344.70	288.16	231.61	167.09	109.58	74.06	y (2+)
y-79.97 (2+)		587.82	523.77										y-79.97 (2+)
y-97.98 (2+)		578.81	514.77										y-97.98 (2+)
	D	K	S	P	S	S	L	L	E	D	A	K	
	12	11	10	9	8	7	6	5	4	3	2	1	

ST(+79.97)FHAGQLR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 366.169, Calc. m/z: 366.171
Data File: ppeptidemix2_CID_Orbi, Scans: 1431 - 1431

Max Intensity: 1.35e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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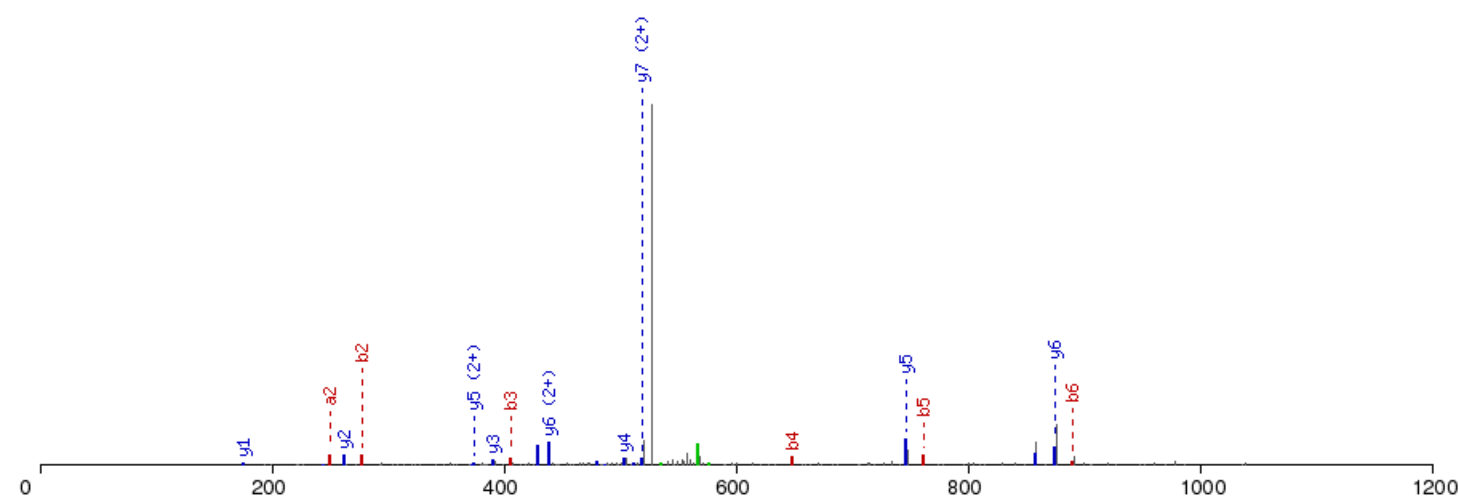
	S	T	F	H	A	G	Q	L	R	
	1	2	3	4	5	6	7	8	9	
a		241.06								a
a-79.97		161.09								a-79.97
a-97.98		143.08								a-97.98
b		269.05	416.12	553.18	624.22	681.24	809.30	922.38		b
b-79.97		189.09	336.16	473.21	544.25	601.27	729.33	842.42		b-79.97
b-97.98		171.08	318.14	455.20	526.24	583.26	711.32	824.40		b-97.98
b (2+)				277.09	312.61	341.12	405.15	461.69		b (2+)
b-79.97 (2+)				237.11	272.63	301.14	365.17	421.71		b-79.97 (2+)
b-97.98 (2+)				228.11	263.62	292.13	356.16	412.71		b-97.98 (2+)
y		1009.46	828.45	681.38	544.32	473.28	416.26	288.20	175.12	y
y-79.97		929.50								y-79.97
y-97.98		911.48								y-97.98
y (2+)		505.23	414.73	341.19	272.66	237.15	208.63	144.61	88.06	y (2+)
y-79.97 (2+)		465.25								y-79.97 (2+)
y-97.98 (2+)		456.25								y-97.98 (2+)
y (3+)		337.16	276.82	227.80						y (3+)
y-79.97 (3+)		310.50								y-79.97 (3+)
y-97.98 (3+)		304.50								y-97.98 (3+)
	S	T	F	H	A	G	Q	L	R	
	9	8	7	6	5	4	3	2	1	

IYQY(+79.97)IQSR

Identified in MSS764 1 x Phospho (Y)

Charge: 2, Exp. m/z: 576.269, Calc. m/z: 575.767
Data File: ppeptidemix3_CID_Orbi, Scans: 1609 - 1609

Max Intensity: 2.13e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	I	Y	Q	Y	I	Q	S	R	
	1	2	3	4	5	6	7	8	
a		249.16							a
b		277.15	405.21	648.24	761.33	889.39	976.42		b
b-79.97				568.28	681.36	809.42	896.45		b-79.97
y		1037.45	874.38	746.32	503.29	390.21	262.15	175.12	y
y-79.97		957.48	794.42	666.36					y-79.97
y (2+)		519.23	437.69	373.67	252.15	195.61	131.58	88.06	y (2+)
y-79.97 (2+)		479.24	397.71	333.68					y-79.97 (2+)
	I	Y	Q	Y	I	Q	S	R	
	8	7	6	5	4	3	2	1	

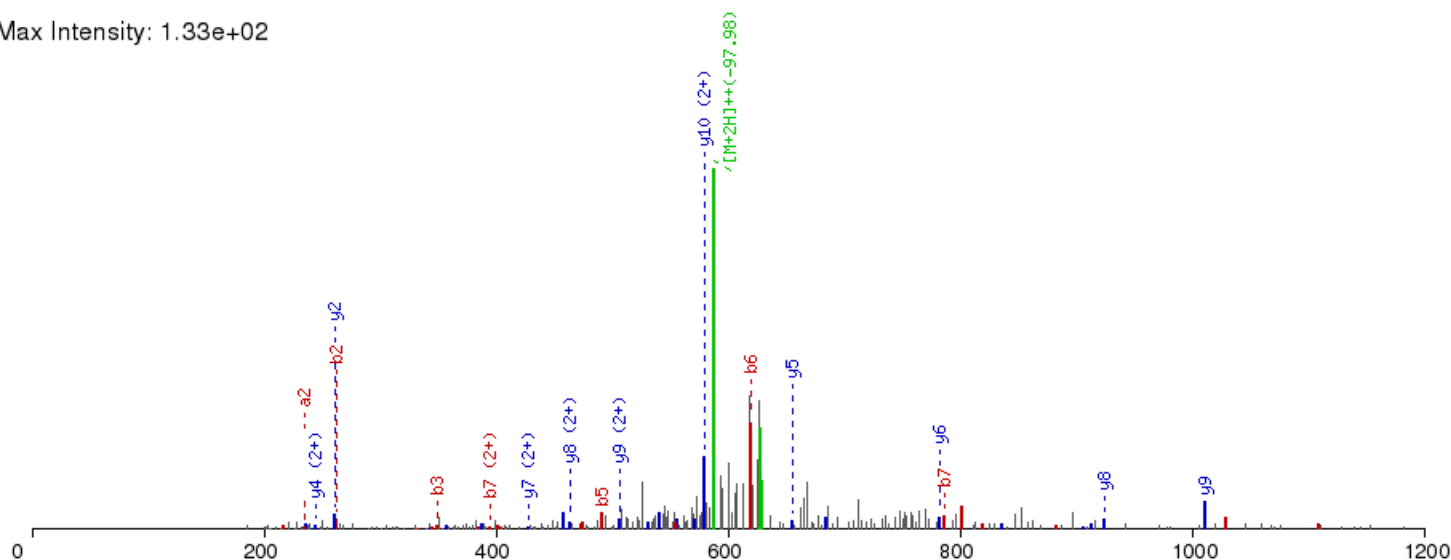
NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.822

Data File: ppeptidemix1_CID_Orbi, Scans: 1946 - 1946

Max Intensity: 1.33e+02



Sequence Ladder Ions

Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion

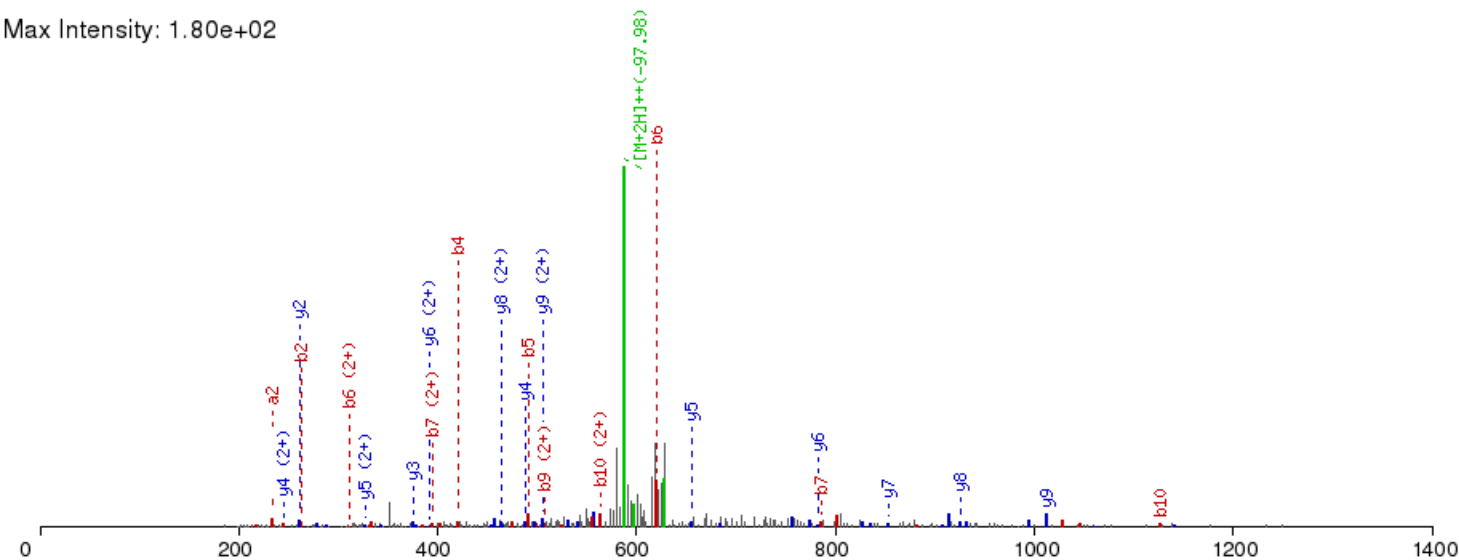
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.822
Data File: ppeptidemix1_CID_Orbi, Scans: 1923 - 1923

Max Intensity: 1.80e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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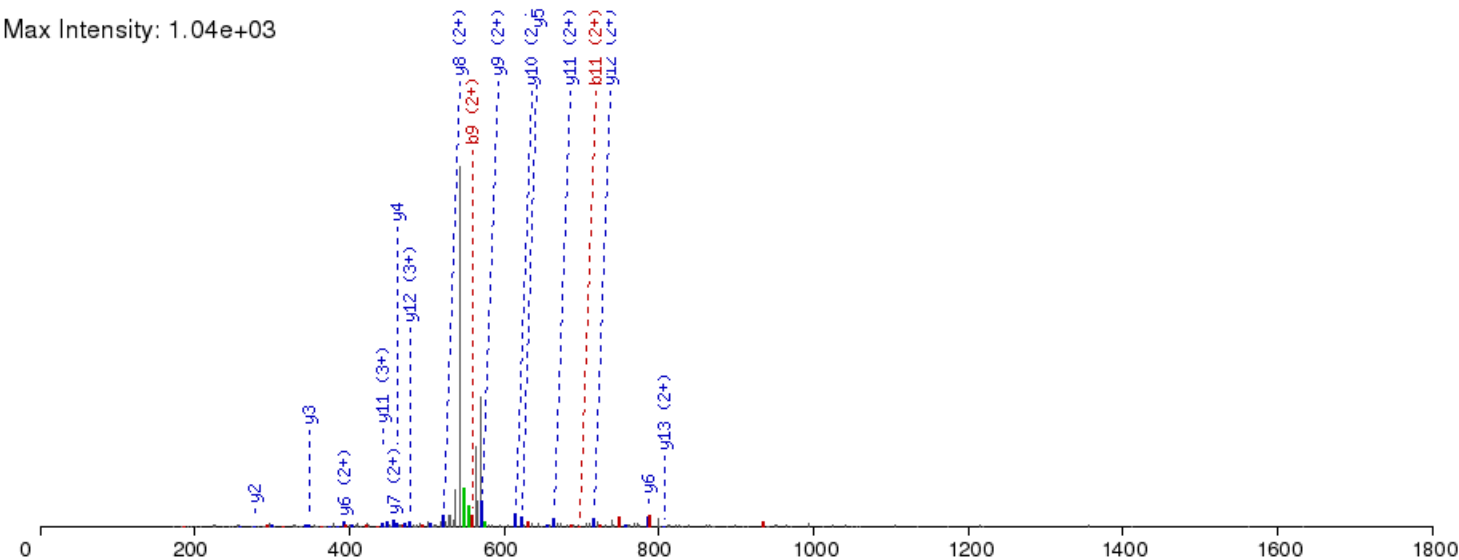
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

ET(+79.97)TTSPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281
Data File: ppeptidemix4_CID_Orbi, Scans: 1369 - 1369

Max Intensity: 1.04e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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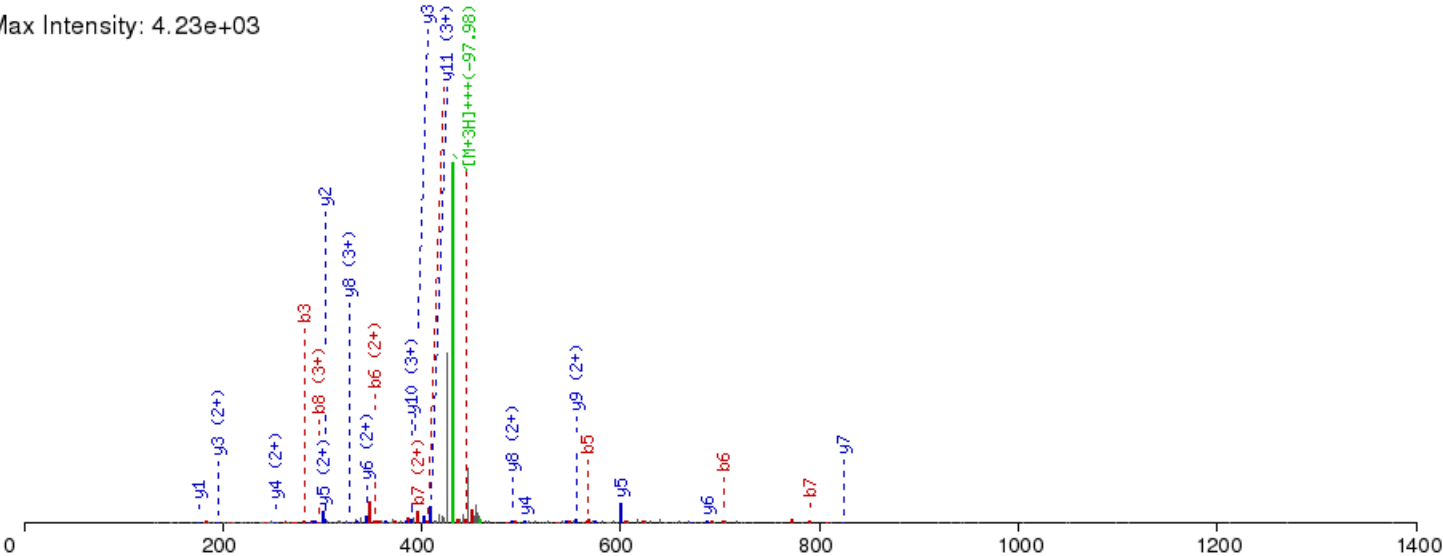
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		283.07													a
a-79.97		203.10													a-79.97
a-97.98		185.09													a-97.98
b		311.06	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97		231.10	332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98		213.09	314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1428.77	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82													y-79.97
y-97.98		1511.81													y-97.98
y (2+)		805.40	714.89	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41													y-79.97 (2+)
y-97.98 (2+)		756.41													y-97.98 (2+)
y (3+)		537.27	476.93	443.25	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61													y-79.97 (3+)
y-97.98 (3+)		504.61													y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

S(+79.97)GGQRHSPLSQR

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 463.884, Calc. m/z: 463.884
Data File: ppeptidemix4_CID_Orbi, Scans: 955 - 955

Max Intensity: 4.23e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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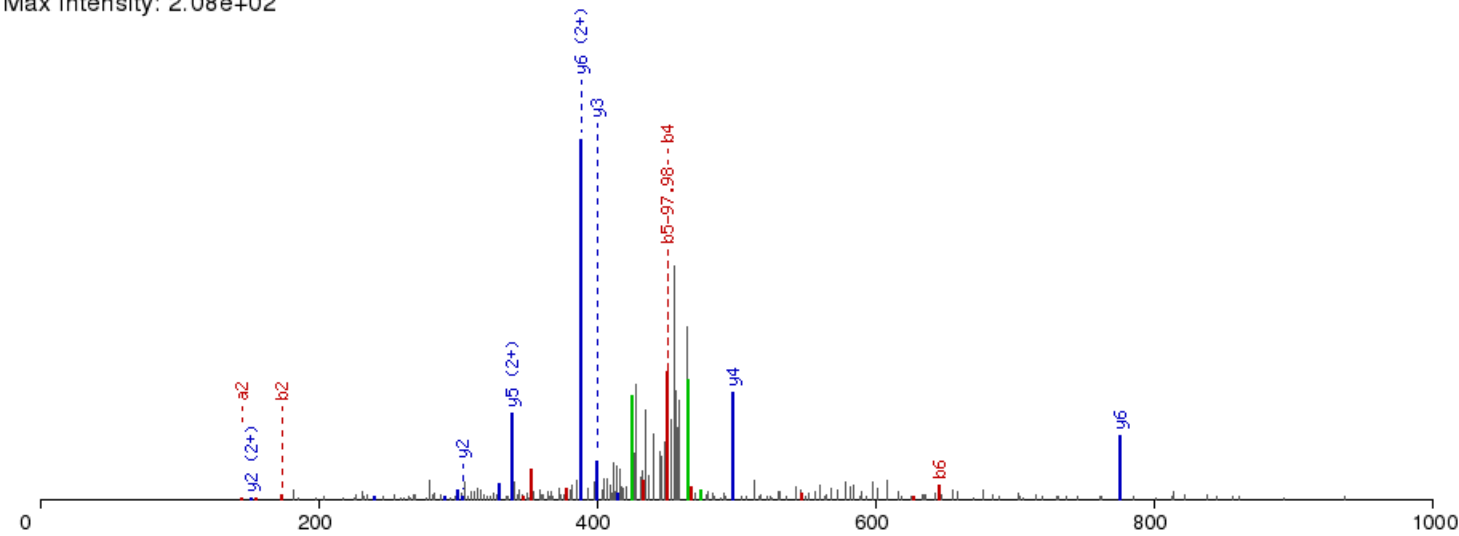
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	1	2	3	4	5	6	7	8	9	10	11	12	
a		197.03											a
a-79.97		117.07											a-79.97
a-97.98		99.06											a-97.98
b		225.03	282.05	410.11	566.21	703.27	790.30	887.35	1000.44	1087.47	1215.53		b
b-79.97		145.06	202.08	330.14	486.24	623.30	710.33	807.39	920.47	1007.50	1135.56		b-79.97
b-97.98		127.05	184.07	312.13	468.23	605.29	692.32	789.38	902.46	989.49	1117.55		b-97.98
b (2+)					283.61	352.14	395.65	444.18	500.72	544.24	608.27		b (2+)
b-79.97 (2+)					243.62	312.15	355.67	404.20	460.74	504.25	568.28		b-79.97 (2+)
b-97.98 (2+)					234.62	303.15	346.66	395.19	451.73	495.25	559.28		b-97.98 (2+)
b (3+)						235.09	264.10	296.46	334.15	363.16	405.85		b (3+)
b-79.97 (3+)						208.44	237.45	269.80	307.49	336.51	379.19		b-79.97 (3+)
b-97.98 (3+)						202.43	231.45	263.80	301.49	330.50	373.19		b-97.98 (3+)
y		1222.64	1165.62	1108.60	980.54	824.44	687.38	600.35	503.29	390.21	303.18	175.12	y
y (2+)		611.82	583.31	554.80	490.77	412.72	344.19	300.68	252.15	195.61	152.09	88.06	y (2+)
y (3+)		408.22	389.21	370.20	327.52	275.48							y (3+)
	S	G	G	Q	R	H	S	P	L	S	Q	R	
	12	11	10	9	8	7	6	5	4	3	2	1	

TAPT(+79.97)PPKR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 474.239, Calc. m/z: 474.239
Data File: ppeptidemix3_CID_Orbi, Scans: 956 - 956

Max Intensity: 2.08e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	T	A	P	T	P	P	K	R	
	1	2	3	4	5	6	7	8	
a		145.10							a
b		173.09	270.14	451.16	548.21	645.26	773.36		b
b-79.97				371.19	468.25	565.30	693.39		b-79.97
b-97.98				353.18	450.23	547.29	675.38		b-97.98
b (2+)							387.18		b (2+)
b-79.97 (2+)							347.20		b-79.97 (2+)
b-97.98 (2+)							338.19		b-97.98 (2+)
y		846.42	775.39	678.33	497.32	400.27	303.21	175.12	y
y-79.97		766.46	695.42	598.37					y-79.97
y-97.98		748.45	677.41	580.36					y-97.98
y (2+)		423.72	388.20	339.67	249.16	200.64	152.11	88.06	y (2+)
y-79.97 (2+)		383.73	348.21	299.69					y-79.97 (2+)
y-97.98 (2+)		374.73	339.21	290.68					y-97.98 (2+)
	T	A	P	T	P	P	K	R	
	8	7	6	5	4	3	2	1	

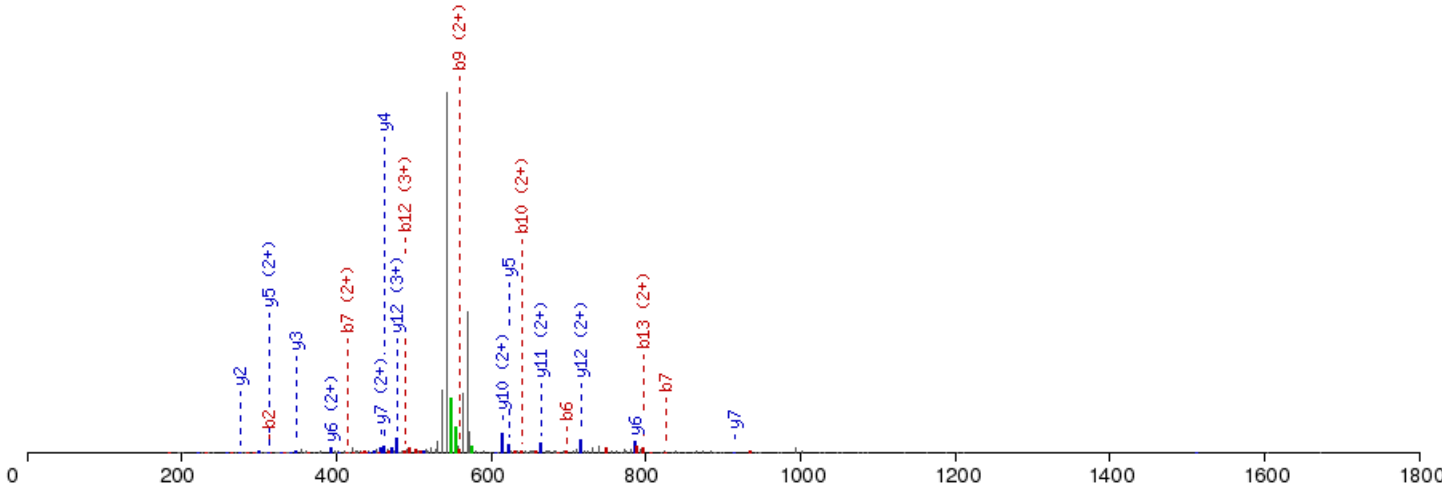
ET(+79.97)TTSPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281

Data File: ppeptidemix4_CID_Orbi, Scans: 1421 - 1421

Max Intensity: 1.44e+03



Sequence Ladder Ions

Key: m/z out of range of spectrum matched c-term ion unmatched c-term ion matched n-term ion unmatched n-term ion

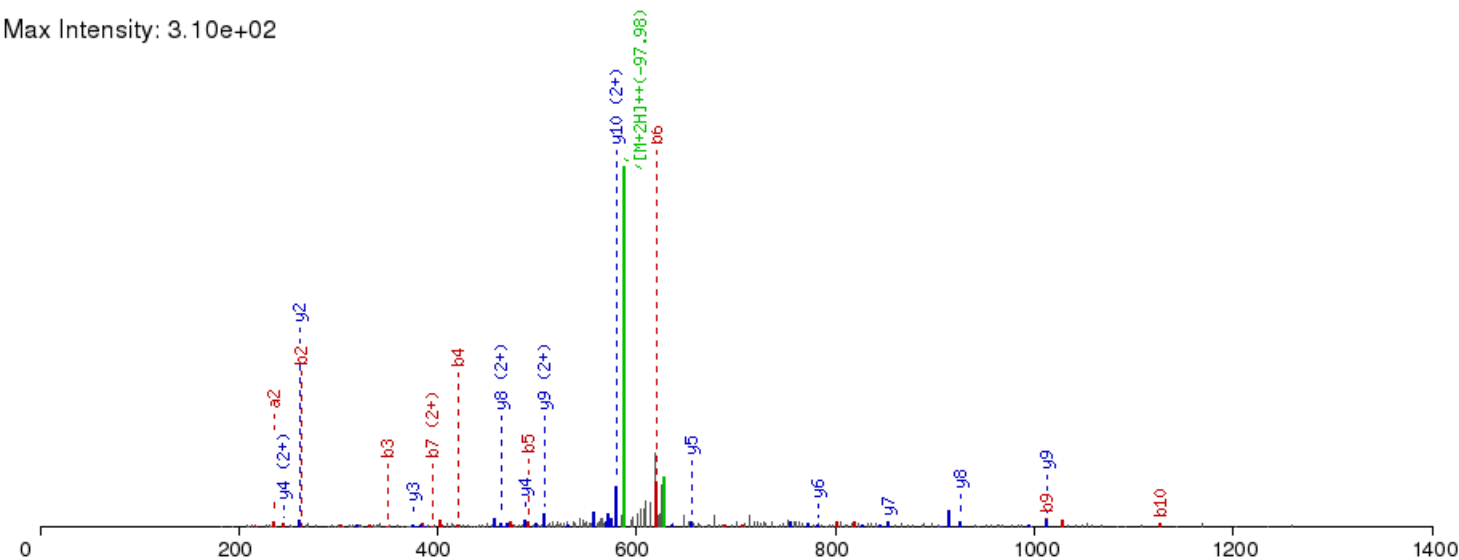
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		283.07													a
a-79.97		203.10													a-79.97
a-97.98		185.09													a-97.98
b		311.06	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97		231.10	332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98		213.09	314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1428.77	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82													y-79.97
y-97.98		1511.81													y-97.98
y (2+)		805.40	714.89	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41													y-79.97 (2+)
y-97.98 (2+)		756.41													y-97.98 (2+)
y (3+)		537.27	476.93	443.25	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61													y-79.97 (3+)
y-97.98 (3+)		504.61													y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

NFSAAKS(+79.97)LLNK

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 636.821, Calc. m/z: 636.822
Data File: ppeptidemix1_CID_Orbi, Scans: 1912 - 1912

Max Intensity: 3.10e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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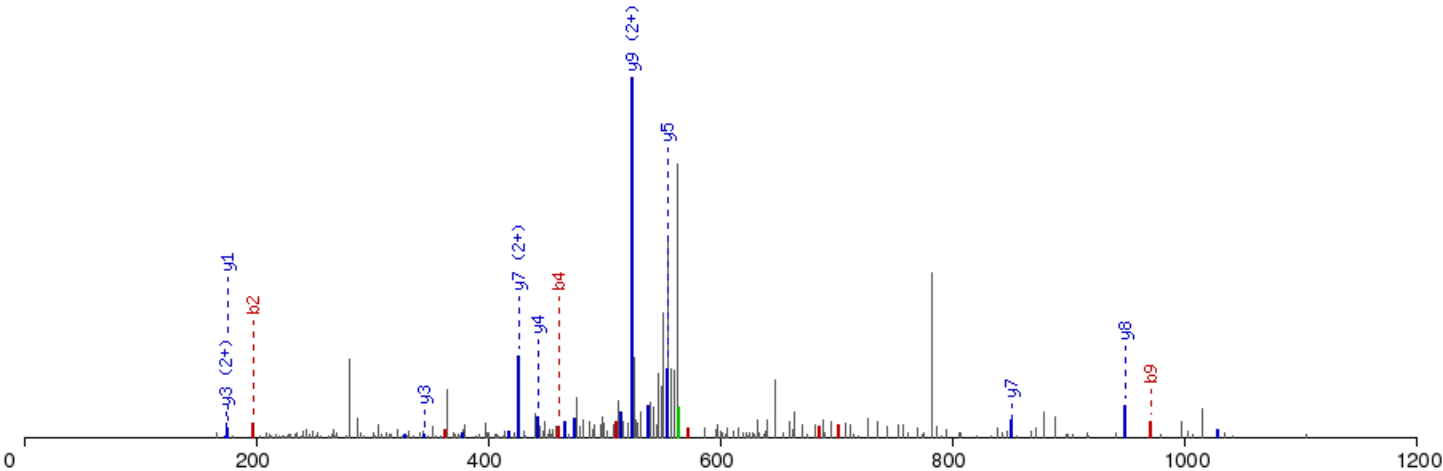
	N	F	S	A	A	K	S	L	L	N	K	
	1	2	3	4	5	6	7	8	9	10	11	
a		234.12										a
b		262.12	349.15	420.19	491.22	619.32	786.32	899.40	1012.49	1126.53		b
b-79.97							706.35	819.44	932.52	1046.56		b-79.97
b-97.98							688.34	801.43	914.51	1028.55		b-97.98
b (2+)						310.16	393.66	450.20	506.75	563.77		b (2+)
b-79.97 (2+)							353.68	410.22	466.76	523.79		b-79.97 (2+)
b-97.98 (2+)							344.67	401.22	457.76	514.78		b-97.98 (2+)
y		1158.59	1011.52	924.49	853.45	782.42	654.32	487.32	374.24	261.16	147.11	y
y-79.97		1078.63	931.56	844.53	773.49	702.45	574.36					y-79.97
y-97.98		1060.61	913.55	826.51	755.48	684.44	556.35					y-97.98
y (2+)		579.80	506.27	462.75	427.23	391.71	327.66	244.17	187.62	131.08	74.06	y (2+)
y-79.97 (2+)		539.82	466.28	422.77	387.25	351.73	287.68					y-79.97 (2+)
y-97.98 (2+)		530.81	457.28	413.76	378.24	342.72	278.68					y-97.98 (2+)
	N	F	S	A	A	K	S	L	L	N	K	
	11	10	9	8	7	6	5	4	3	2	1	

VPPS(+79.97)ELPGLR

Identified in MSS764 1 x Phospho (ST)

Charge: 2, Exp. m/z: 572.791, Calc. m/z: 572.792
Data File: ppeptidemix2_CID_Orbi, Scans: 2212 - 2212

Max Intensity: 2.00e+02



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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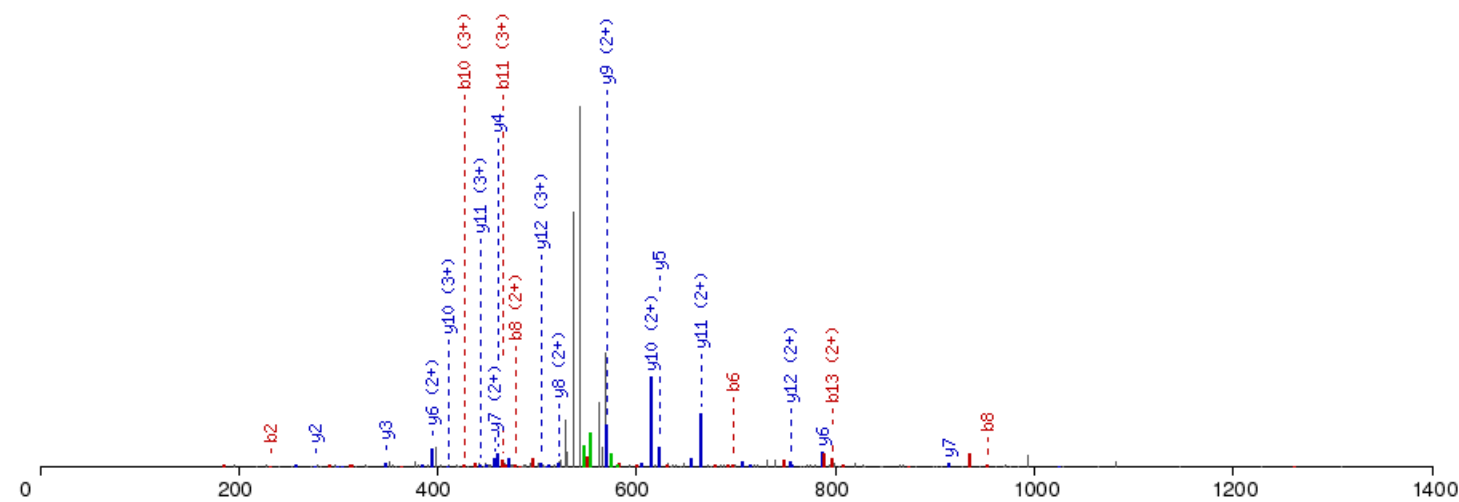
	V	P	P	S	E	L	P	G	L	R	
	1	2	3	4	5	6	7	8	9	10	
a		169.13									a
b		197.13	294.18	461.18	590.22	703.31	800.36	857.38	970.46		b
b-79.97				381.21	510.26	623.34	720.39	777.41	890.50		b-79.97
b-97.98				363.20	492.25	605.33	702.38	759.40	872.49		b-97.98
y		1045.51	948.45	851.40	684.40	555.36	442.28	345.22	288.20	175.12	y
y-79.97		965.54	868.49	771.44							y-79.97
y-97.98		947.53	850.48	753.43							y-97.98
y (2+)		523.26	474.73	426.20	342.71	278.18	221.64	173.12	144.61	88.06	y (2+)
y-79.97 (2+)		483.27	434.75	386.22							y-79.97 (2+)
y-97.98 (2+)		474.27	425.74	377.22							y-97.98 (2+)
	V	P	P	S	E	L	P	G	L	R	
	10	9	8	7	6	5	4	3	2	1	

ETT(+79.97)TSPKKYYLAEK

Identified in MSS764 1 x Phospho (ST)

Charge: 3, Exp. m/z: 580.281, Calc. m/z: 580.281
Data File: ppeptidemix5_CID_Orbi, Scans: 1235 - 1235

Max Intensity: 2.14e+03



Sequence Ladder Ions

Key:	m/z out of range of spectrum	matched c-term ion	unmatched c-term ion	matched n-term ion	unmatched n-term ion
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	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
a		203.10													a
b		231.10	412.11	513.16	600.19	697.24	825.34	953.43	1116.50	1279.56	1392.64	1463.68	1592.72		b
b-79.97			332.15	433.19	520.22	617.28	745.37	873.47	1036.53	1199.59	1312.68	1383.72	1512.76		b-79.97
b-97.98			314.13	415.18	502.21	599.27	727.36	855.46	1018.52	1181.58	1294.67	1365.70	1494.75		b-97.98
b (2+)							413.17	477.22	558.75	640.28	696.83	732.34	796.87		b (2+)
b-79.97 (2+)							373.19	437.24	518.77	600.30	656.84	692.36	756.88		b-79.97 (2+)
b-97.98 (2+)							364.18	428.23	509.76	591.30	647.84	683.36	747.88		b-97.98 (2+)
b (3+)								318.48	372.84	427.19	464.89	488.57	531.58		b (3+)
b-79.97 (3+)								291.83	346.18	400.54	438.23	461.91	504.92		b-79.97 (3+)
b-97.98 (3+)								285.82	340.18	394.53	432.23	455.91	498.92		b-97.98 (3+)
y		1609.79	1508.74	1327.73	1226.68	1139.65	1042.59	914.50	786.40	623.34	460.28	347.19	276.16	147.11	y
y-79.97		1529.82	1428.77												y-79.97
y-97.98		1511.81	1410.76												y-97.98
y (2+)		805.40	754.87	664.37	613.84	570.33	521.80	457.75	393.71	312.17	230.64	174.10	138.58	74.06	y (2+)
y-79.97 (2+)		765.41	714.89												y-79.97 (2+)
y-97.98 (2+)		756.41	705.88												y-97.98 (2+)
y (3+)		537.27	503.58	443.25	409.56	380.55	348.20	305.50							y (3+)
y-79.97 (3+)		510.61	476.93												y-79.97 (3+)
y-97.98 (3+)		504.61	470.93												y-97.98 (3+)
	E	T	T	T	S	P	K	K	Y	Y	L	A	E	K	
	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

