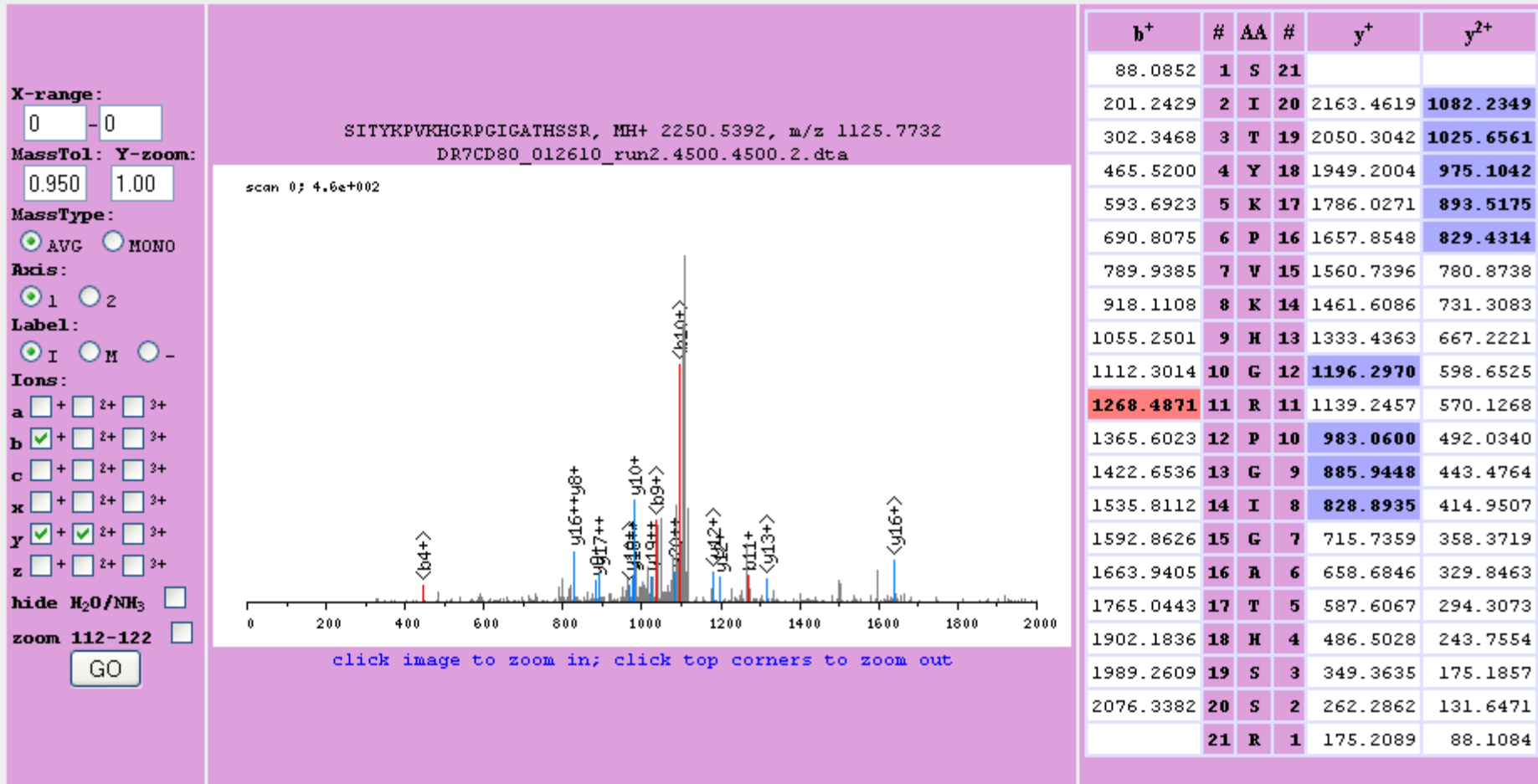


**Supplemental Figure 1.** Spectra of proteins from HLA-DR7 and HLA-DR7/Ii<sup>+</sup> cells identified by a single peptide.

# FSITYKPVKHGRPGIGATHSSRF



# KKAPAQKVPAQKATGQKA

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

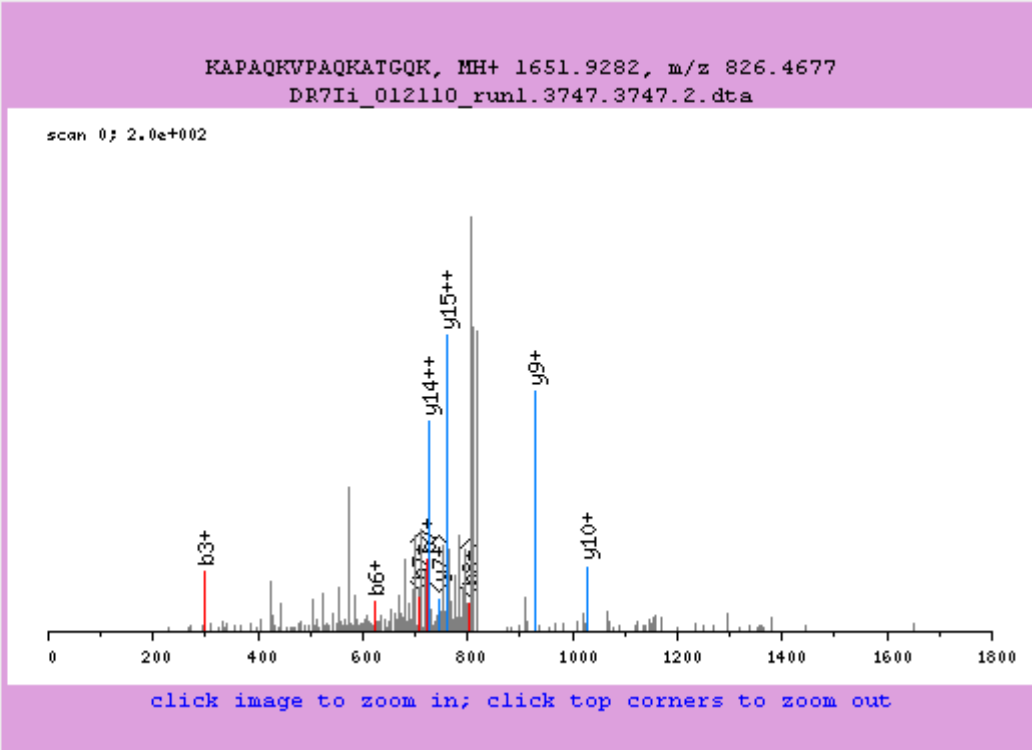
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

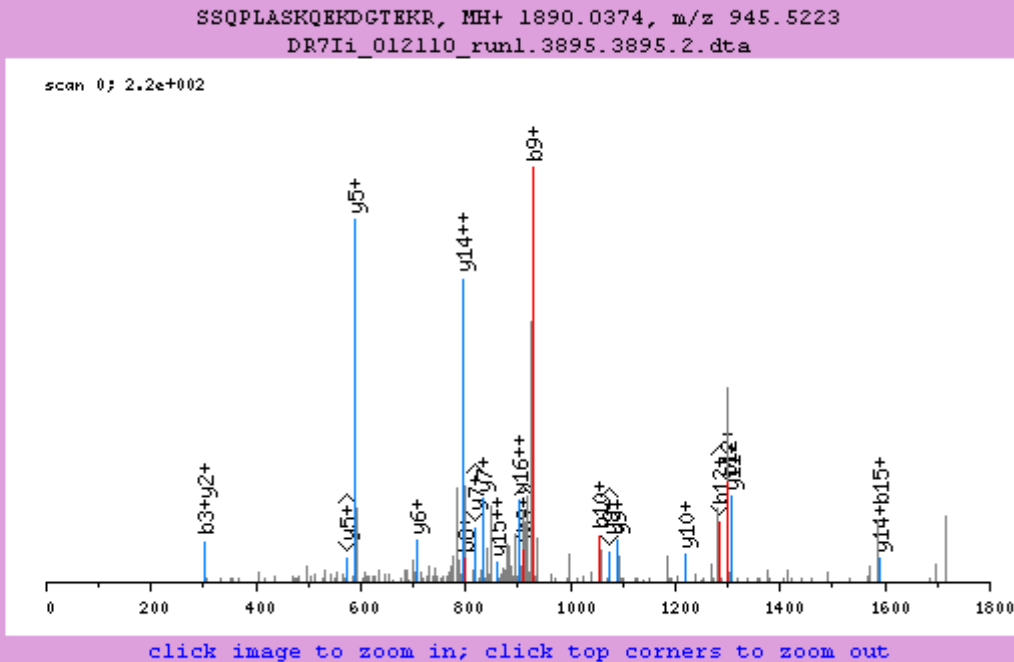
zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
129.1802	1	K	16		
200.2581	2	R	15	1523.7559	762.3819
297.3733	3	P	14	1452.6780	726.8430
368.4512	4	R	13	1355.5629	678.2854
496.5804	5	Q	12	1284.4850	642.7465
624.7527	6	K	11	1156.3557	578.6818
723.8838	7	V	10	1028.1835	514.5957
820.9989	8	P	9	929.0524	465.0302
892.0768	9	R	8	831.9372	416.4726
1020.2061	10	Q	7	760.8593	380.9336
1148.3783	11	K	6	632.7301	316.8690
1219.4562	12	R	5	504.5578	252.7829
1320.5601	13	T	4	433.4799	217.2439
1377.6114	14	G	3	332.3760	166.6920
1505.7407	15	Q	2	275.3247	138.1663
	16	K	1	147.1955	74.1017

# KSSQPLASKQEKDGTEKRS

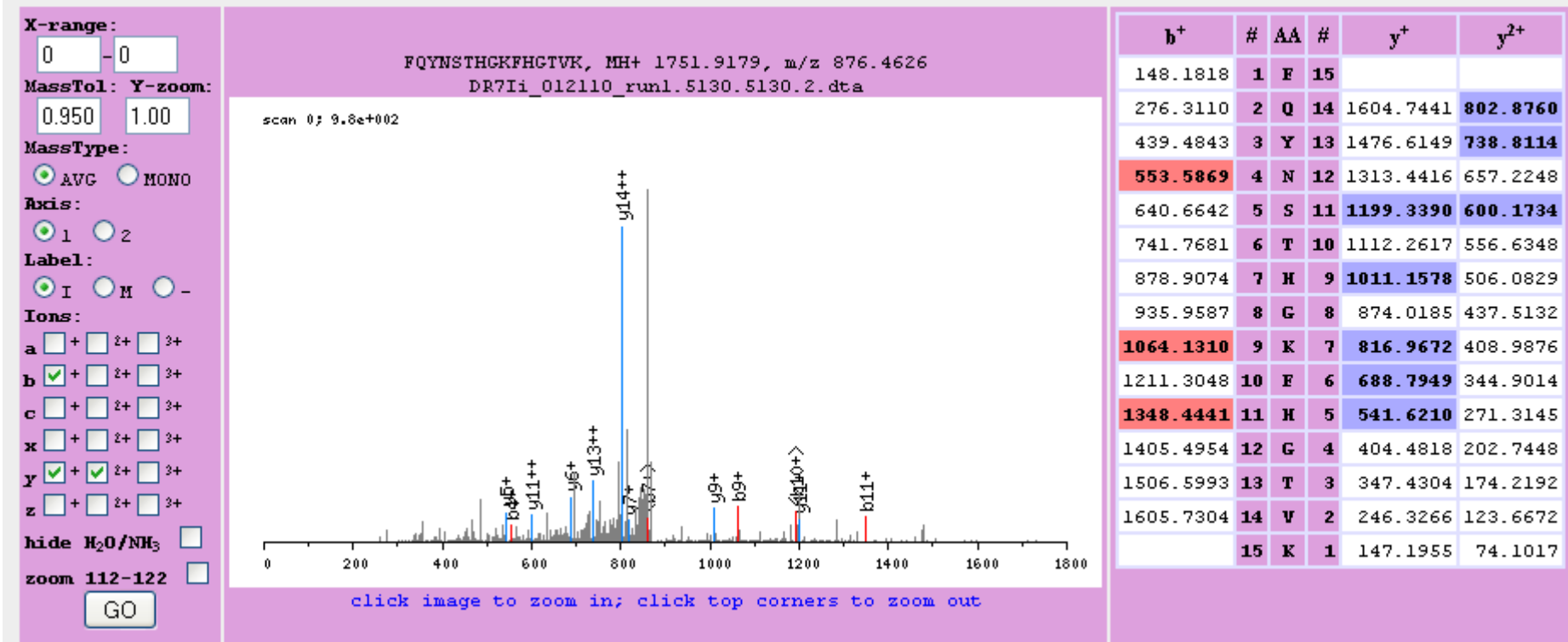
**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
Y  +  2+  3+  
z  +  2+  3+  
 hide H<sub>2</sub>O/NH<sub>3</sub>  
**zoom**



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
88.0852	1	S	17		
175.1625	2	S	16	1802.9601	901.9840
303.2918	3	Q	15	1715.8828	858.4454
400.4069	4	P	14	1587.7535	794.3807
513.5646	5	L	13	1490.6384	745.8232
584.6425	6	R	12	1377.4807	689.2443
671.7198	7	S	11	1306.4028	653.7054
799.8921	8	K	10	1219.3255	610.1667
928.0213	9	Q	9	1091.1532	546.0806
1057.1353	10	E	8	963.0240	482.0160
1185.3075	11	K	7	833.9100	417.4590
1300.3949	12	D	6	705.7378	353.3729
1357.4463	13	G	5	590.6504	295.8292
1458.5501	14	T	4	533.5990	267.3035
1587.6641	15	E	3	432.4952	216.7516
1715.8364	16	K	2	303.3812	152.1946
	17	R	1	175.2089	88.1084



# MFQYNSTHGKFGHTVKA



# LYLKVKGNVFKNKRIIL

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

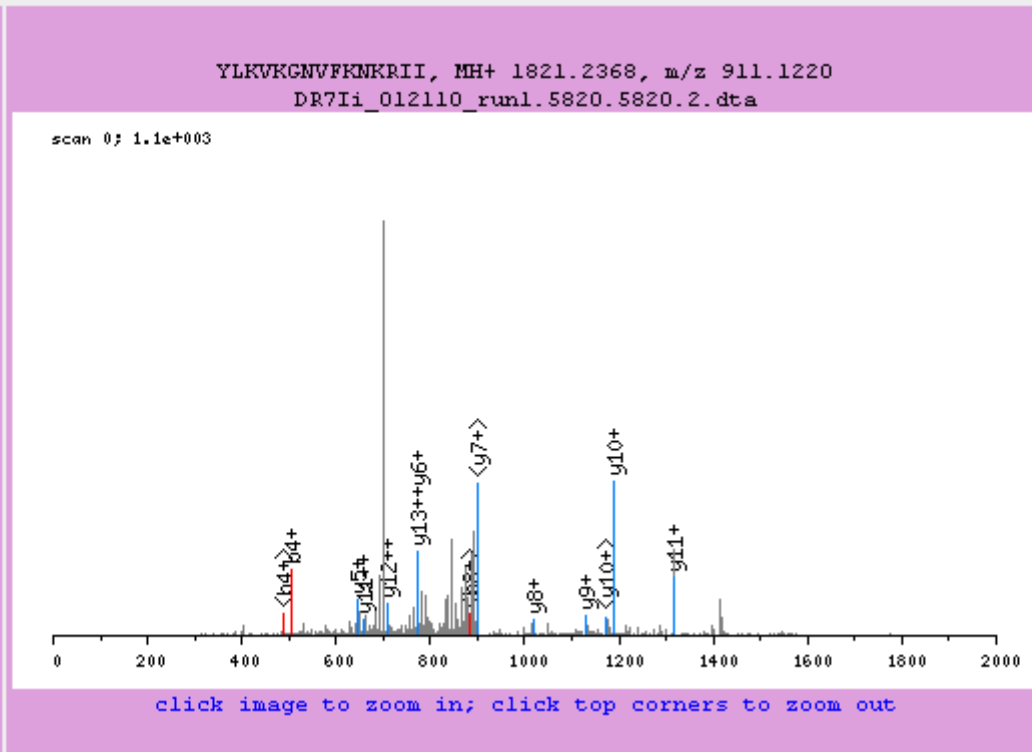
**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**  
 a  +  2+  3+  
 b  +  2+  3+  
 c  +  2+  3+  
 x  +  2+  3+  
 y  +  2+  3+  
 z  +  2+  3+

**hide** H<sub>2</sub>O/NH<sub>3</sub>

**zoom** 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
164.1812	1	Y	15		
277.3388	2	L	14	1658.0635	829.5357
405.5111	3	K	13	1544.9059	<b>772.9569</b>
<b>504.6422</b>	4	V	12	1416.7336	<b>708.8708</b>
632.8145	5	K	11	<b>1317.6025</b>	<b>659.3052</b>
689.8658	6	G	10	<b>1189.4303</b>	595.2191
803.9684	7	N	9	<b>1132.3789</b>	566.6934
903.0995	8	V	8	<b>1018.2763</b>	509.6421
1050.2733	9	F	7	919.1452	460.0766
1178.4456	10	K	6	<b>771.9714</b>	386.4897
1292.5483	11	N	5	<b>643.7991</b>	322.4035
1420.7205	12	K	4	529.6965	265.3522
1576.9062	13	R	3	401.5242	201.2661
1690.0639	14	I	2	245.3385	123.1732
	15	I	1	132.1809	66.5944

# LAADKQTLQSEQPLQVARC

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

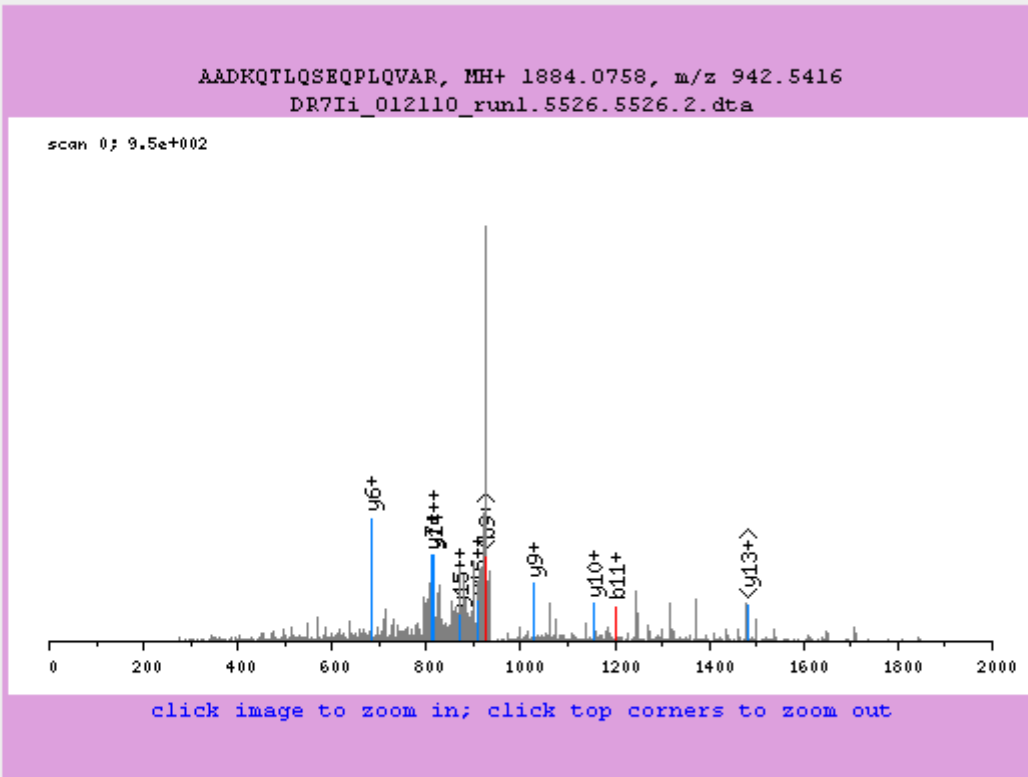
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
72.0858	1	R	17		
143.1637	2	R	16	1812.9979	907.0029
258.2511	3	D	15	1741.9200	871.4640
386.4234	4	K	14	1626.8326	813.9203
514.5526	5	Q	13	1498.6604	749.8342
615.6565	6	T	12	1370.5311	685.7695
728.8142	7	L	11	1269.4273	635.2176
856.9434	8	Q	10	1156.2696	578.6388
944.0207	9	S	9	1028.1404	514.5742
1073.1347	10	E	8	941.0631	471.0355
1201.2639	11	Q	7	811.9491	406.4785
1298.3791	12	P	6	683.8199	342.4139
1411.5367	13	L	5	586.7047	293.8563
1539.6659	14	Q	4	473.5471	237.2775
1638.7970	15	V	3	345.4179	173.2129
1709.8749	16	R	2	246.2868	123.6474
	17	R	1	175.2089	88.1084



# FNQVEIKPEMIGHYLGEFS

X-range:  -

MassTol: Y-zoom:

MassType:  
 AVG  MONO

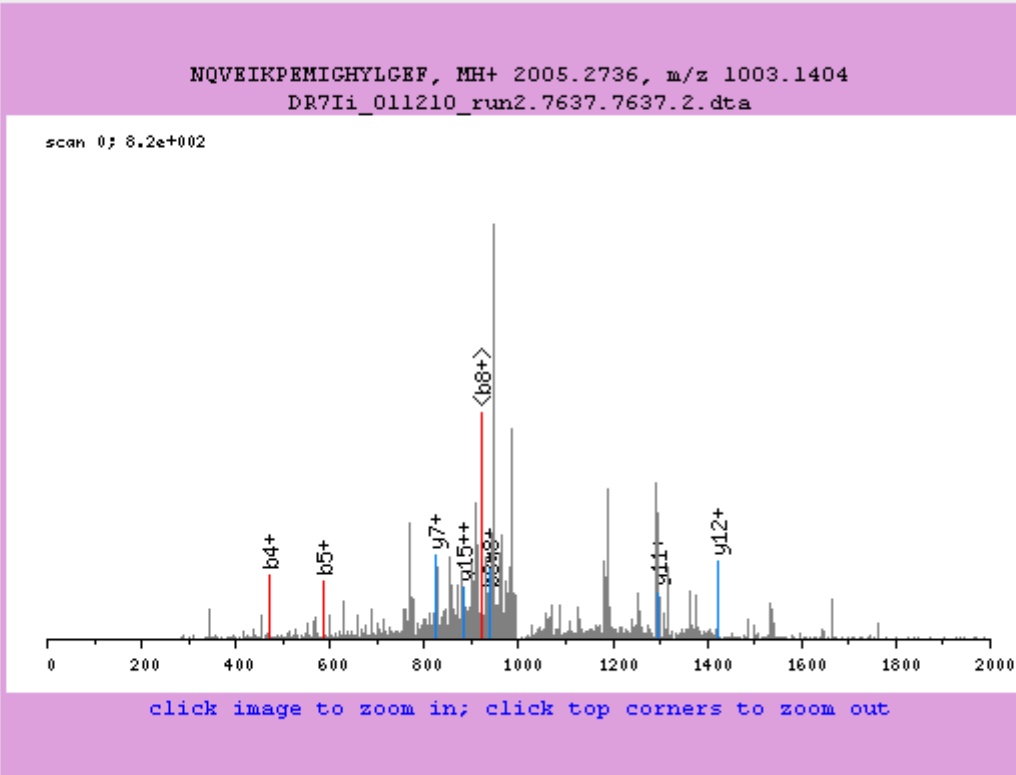
Axis:  
 1  2

Label:  
 I  M  -

Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

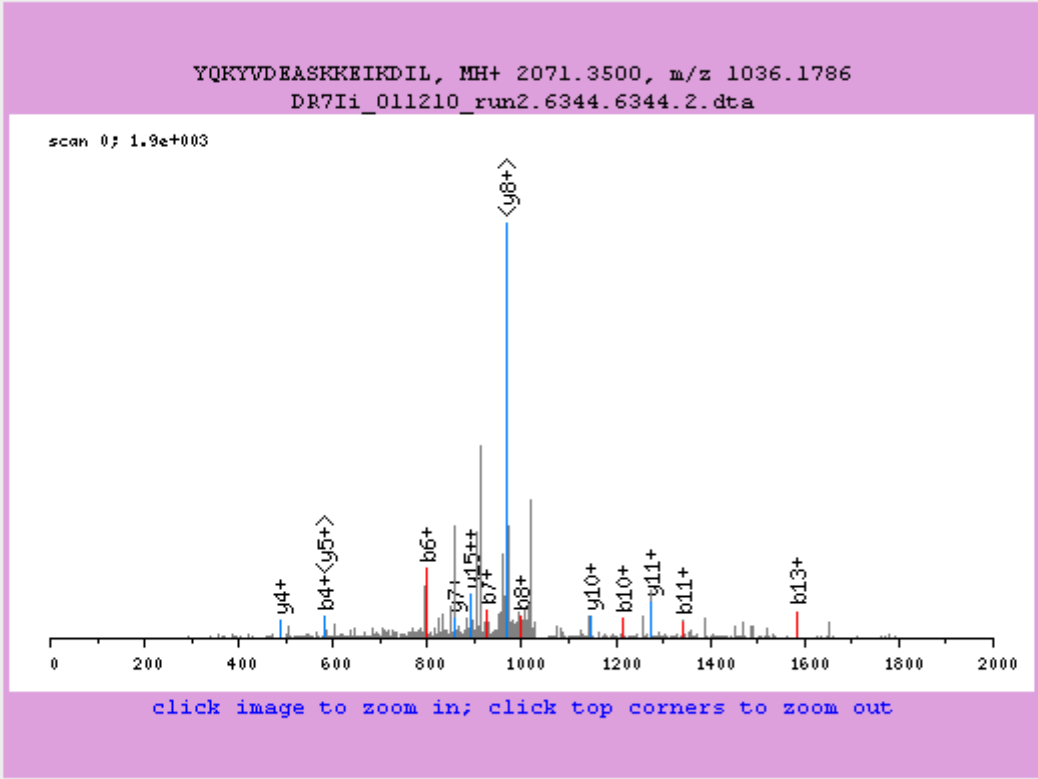
zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
115.1106	1	N	17		
243.2398	2	Q	16	1891.1709	946.0894
342.3709	3	V	15	1763.0417	882.0248
471.4848	4	E	14	1663.9106	832.4593
584.6425	5	I	13	1534.7967	767.9023
712.8148	6	K	12	1421.6390	711.3235
809.9299	7	P	11	1293.4667	647.2373
939.0439	8	E	10	1196.3516	598.6798
1070.2400	9	M	9	1067.2376	534.1228
1183.3976	10	I	8	936.0415	468.5247
1240.4489	11	G	7	822.8839	411.9459
1377.5882	12	H	6	765.8326	383.4202
1540.7615	13	Y	5	628.6933	314.8506
1653.9191	14	L	4	465.5200	233.2640
1710.9704	15	G	3	352.3624	176.6852
1840.0844	16	E	2	295.3111	148.1595
	17	F	1	166.1971	83.6025

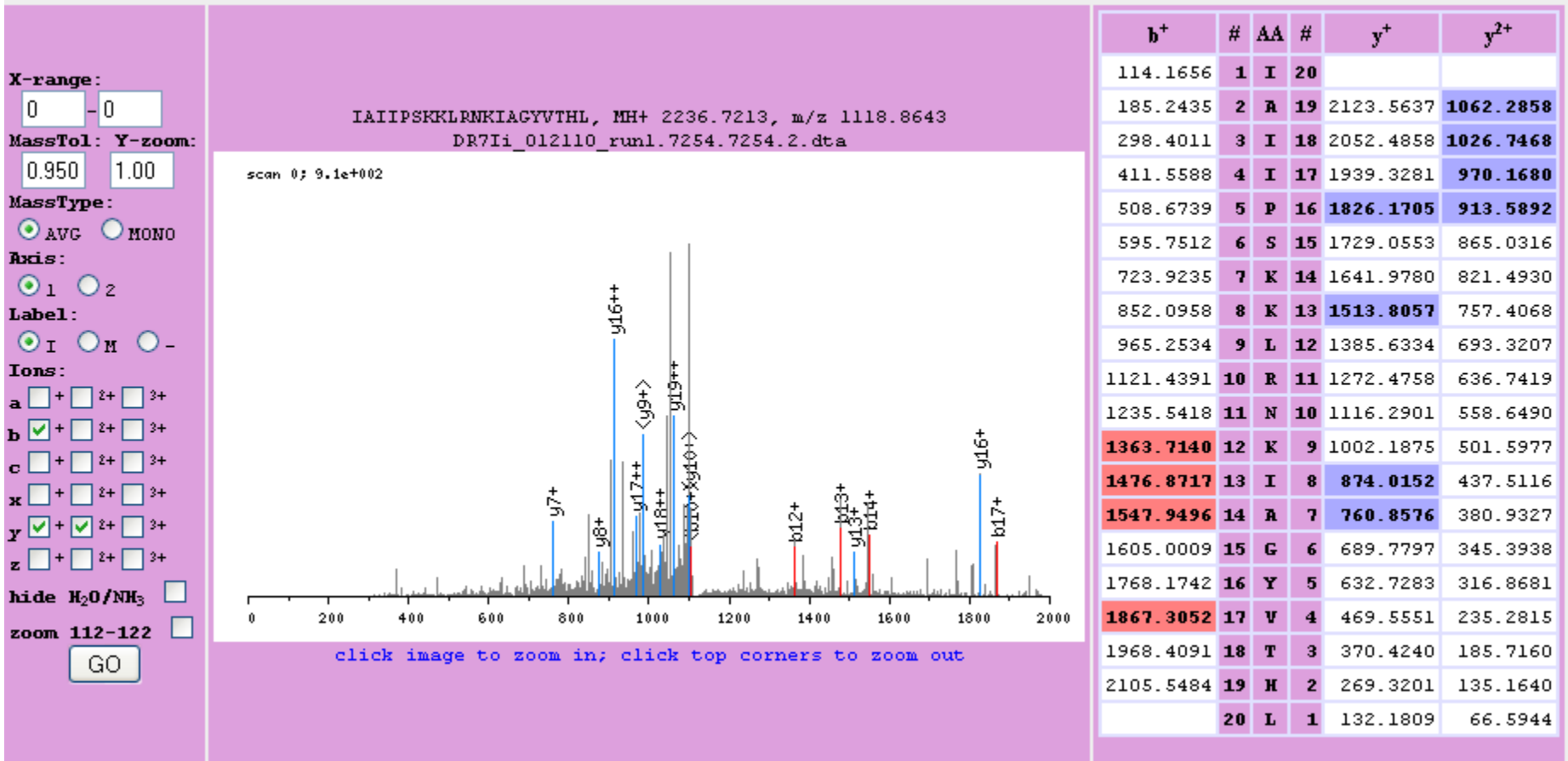
# YYQKYVDEASKKEIKDILI

**X-range:**  
 -   
**MassTol:** **Y-zoom:**  
   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
**a**  +  2+  3+  
**b**  +  2+  3+  
**c**  +  2+  3+  
**x**  +  2+  3+  
**y**  +  2+  3+  
**z**  +  2+  3+  
**hide H<sub>2</sub>O/NH<sub>3</sub>**   
**zoom 112-122**



$b^+$	#	AA	#	$y^+$	$y^{2+}$
164.1812	1	Y	17		
292.3104	2	Q	16	1908.1768	954.5923
420.4827	3	K	15	1780.0475	890.5277
583.6560	4	Y	14	1651.8753	826.4416
682.7870	5	V	13	1488.7020	744.8550
797.8744	6	D	12	1389.5709	695.2894
926.9884	7	E	11	1274.4835	637.7457
998.0663	8	R	10	1145.3696	573.1887
1085.1436	9	S	9	1074.2917	537.6498
1213.3159	10	K	8	987.2144	494.1111
1341.4882	11	K	7	859.0421	430.0250
1470.6021	12	E	6	730.8698	365.9389
1583.7598	13	I	5	601.7558	301.3819
1711.9321	14	K	4	488.5982	244.8031
1827.0195	15	D	3	360.4259	180.7169
1940.1771	16	I	2	245.3385	123.1732
	17	L	1	132.1809	66.5944

# EIAIIPSKKLRNKIAGYVTHLM



# MPGVTVKDVNQQEF

**X-range:** 0 - 0

**MassTol:** 0.950 **Y-zoom:** 1.00

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

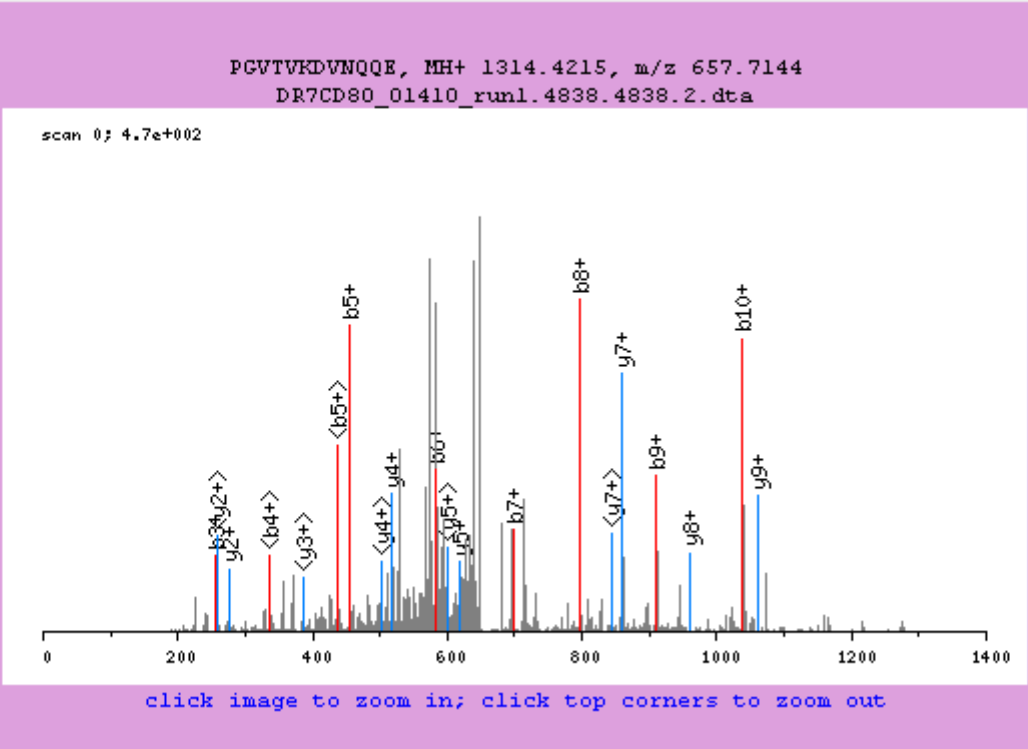
y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

**GO**



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
98.1231	1	P	12		
155.1744	2	G	11	1217.3063	609.1571
254.3055	3	V	10	1160.2550	580.6315
355.4094	4	T	9	1061.1240	531.0660
454.5404	5	V	8	960.0201	480.5140
582.7127	6	K	7	860.8890	430.9485
697.8001	7	D	6	732.7167	366.8623
796.9312	8	V	5	617.6293	309.3186
911.0338	9	N	4	518.4983	259.7531
1039.1630	10	Q	3	404.3956	202.7018
1167.2923	11	Q	2	276.2664	138.6372
	12	E	1	148.1372	74.5726

# FTKSPYQEFTDHLVKTHTRV

X-range:  -

MassTol:  Y-zoom:

MassType:  AVG  MONO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

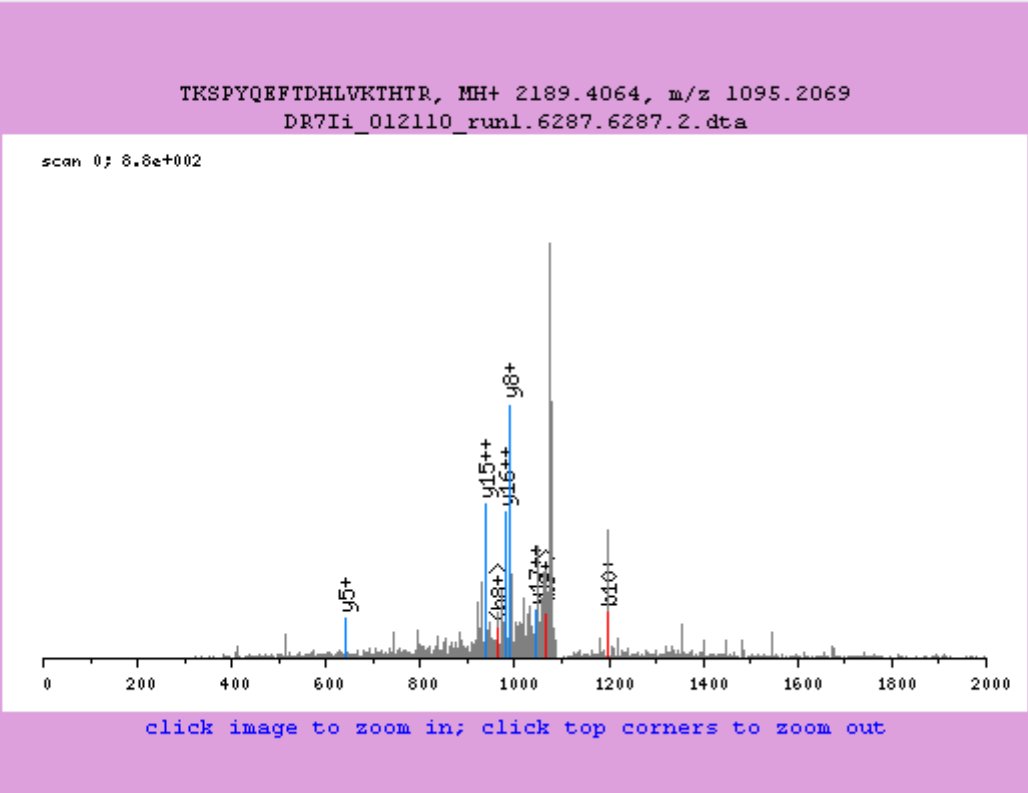
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



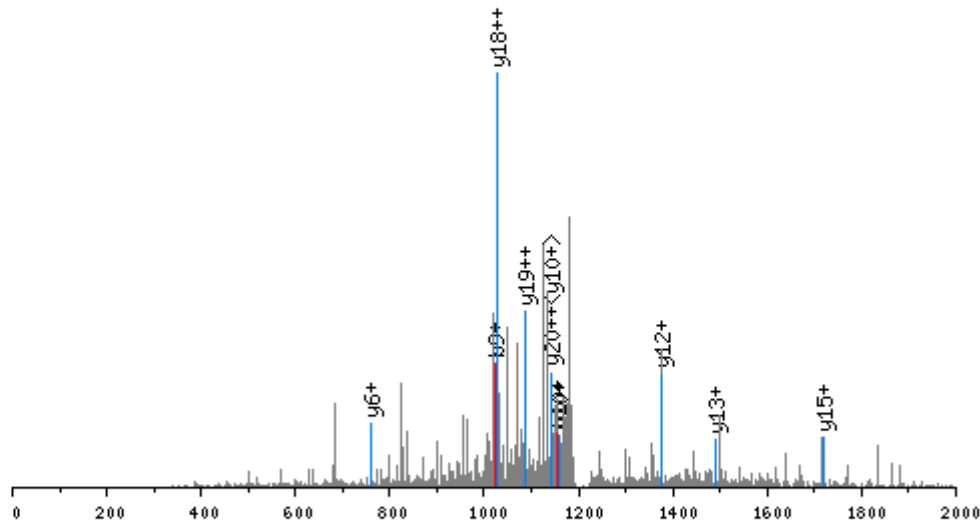
b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
102.1118	1	T	18		
230.2841	2	K	17	2088.3026	1044.6552
317.3614	3	S	16	1960.1303	980.5691
414.4766	4	P	15	1873.0530	937.0305
577.6498	5	Y	14	1775.9378	888.4729
705.7791	6	Q	13	1612.7645	806.8862
834.8930	7	E	12	1484.6353	742.8216
982.0669	8	F	11	1355.5213	678.2646
1083.1708	9	T	10	1208.3475	604.6777
1198.2582	10	D	9	1107.2436	554.1258
1335.3975	11	H	8	992.1562	496.5821
1448.5551	12	L	7	855.0169	428.0124
1547.6862	13	V	6	741.8593	371.4336
1675.8584	14	K	5	642.7282	321.8681
1776.9623	15	T	4	514.5559	257.7819
1914.1016	16	H	3	413.4521	207.2300
2015.2055	17	T	2	276.3128	138.6604
	18	R	1	175.2089	88.1084

# FILLPKDVEDESTGLEKIEKQLN

**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom **112-122**

ILLPKDVEDESTGLEKIEKQL, MH+ 2398.7246, m/z 1199.8659  
 DR7Ii\_012110\_run1.7372.7372.2.dta

scan 0; 6.5e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
114.1656	1	I	21		
227.3232	2	L	20	2285.5669	1143.2874
340.4809	3	L	19	2172.4093	1086.7086
437.5960	4	P	18	2059.2517	1030.1298
565.7683	5	K	17	1962.1365	981.5722
680.8557	6	D	16	1833.9642	917.4861
779.9868	7	V	15	1718.8768	859.9424
909.1008	8	E	14	1619.7457	810.3768
1024.1882	9	D	13	1490.6318	745.8198
1153.3021	10	E	12	1375.5444	688.2761
1240.3794	11	S	11	1246.4304	623.7192
1341.4833	12	T	10	1159.3531	580.1805
1398.5346	13	G	9	1058.2492	529.6286
1511.6923	14	L	8	1001.1979	501.1029
1640.8063	15	E	7	888.0402	444.5241
1768.9785	16	K	6	758.9263	379.9671
1882.1362	17	I	5	630.7540	315.8810
2011.2502	18	E	4	517.5963	259.3021
2139.4224	19	K	3	388.4824	194.7451
2267.5517	20	Q	2	260.3101	130.6590
	21	L	1	132.1809	66.5944

# RRKEPKSQDIYLR

**X-range:**  
 -

**MassTol:** **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

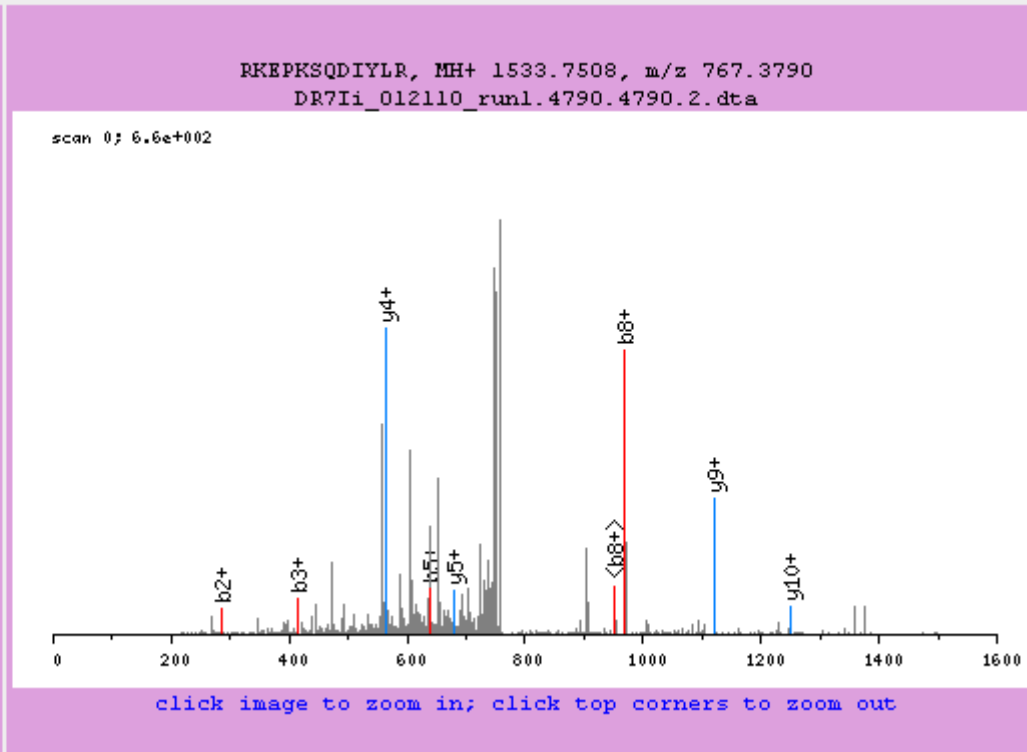
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
157.1936	1	R	12		
285.3659	2	K	11	1377.5651	689.2865
414.4799	3	E	10	1249.3928	625.2004
511.5951	4	P	9	1120.2788	560.6434
639.7673	5	K	8	1023.1636	512.0858
726.8446	6	S	7	894.9914	447.9996
854.9739	7	Q	6	807.9141	404.4610
970.0613	8	D	5	679.7848	340.3964
1083.2189	9	I	4	564.6974	282.8527
1246.3922	10	Y	3	451.5398	226.2739
1359.5498	11	L	2	288.3665	144.6872
	12	R	1	175.2089	88.1084

# RDLRGKKKEELLKQLDDLK

**X-range:**  
 -

**MassTol:** **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

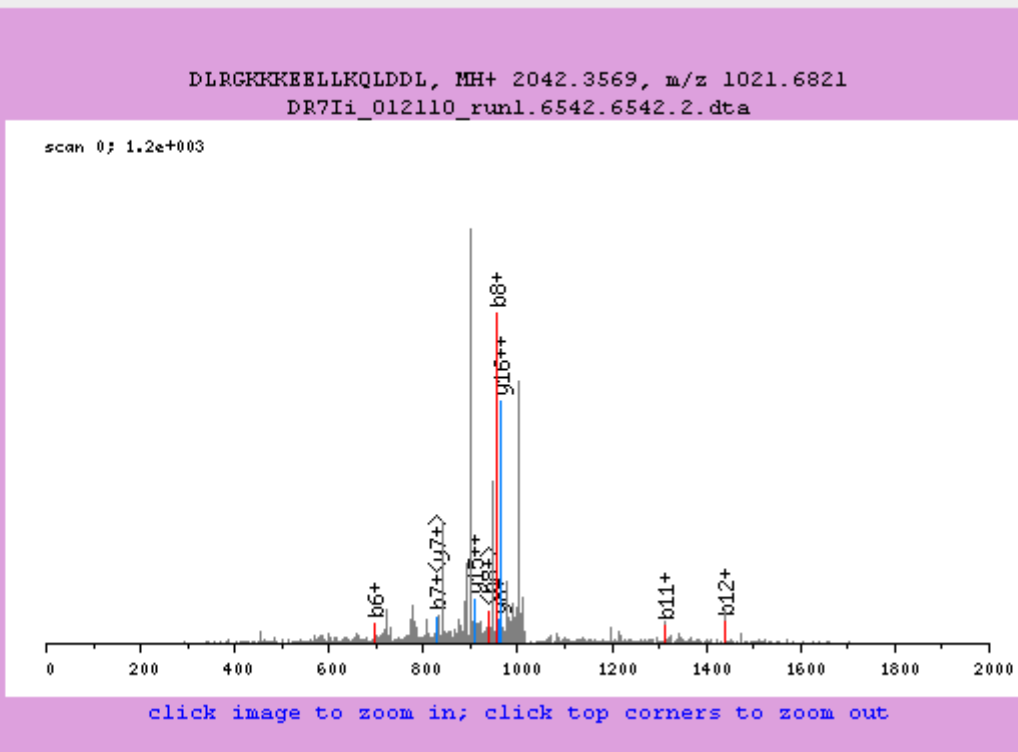
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
116.0953	1	D	17		
229.2530	2	L	16	1927.2695	964.1387
385.4387	3	R	15	1814.1119	907.5599
442.4900	4	G	14	1657.9262	829.4671
570.6623	5	K	13	1600.8749	800.9414
698.8345	6	K	12	1472.7026	736.8553
827.0068	7	K	11	1344.5303	672.7691
956.1208	8	E	10	1216.3580	608.6830
1085.2348	9	E	9	1087.2441	544.1260
1198.3924	10	L	8	958.1301	479.5690
1311.5501	11	L	7	844.9724	422.9902
1439.7223	12	K	6	731.8148	366.4114
1567.8516	13	Q	5	603.6425	302.3252
1681.0092	14	L	4	475.5133	238.2606
1796.0966	15	D	3	362.3557	181.6818
1911.1840	16	D	2	247.2683	124.1381
	17	L	1	132.1809	66.5944



# KVAPAPAVVKKQEAKK

**X-range:**  
 -

**MassTol:** **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

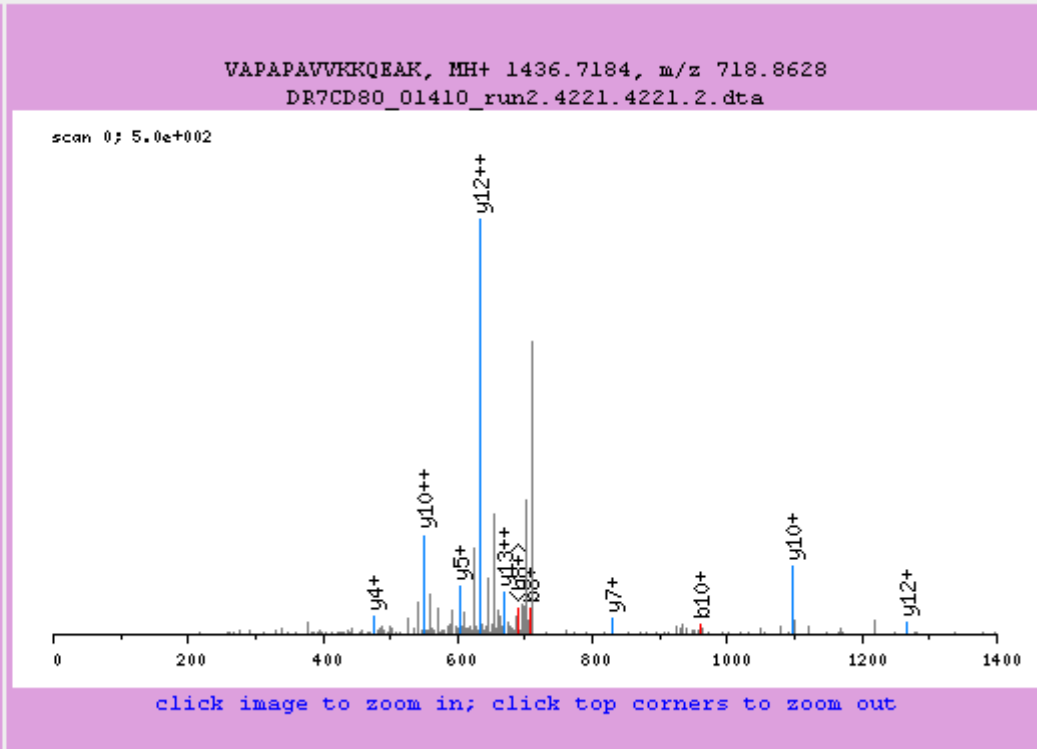
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

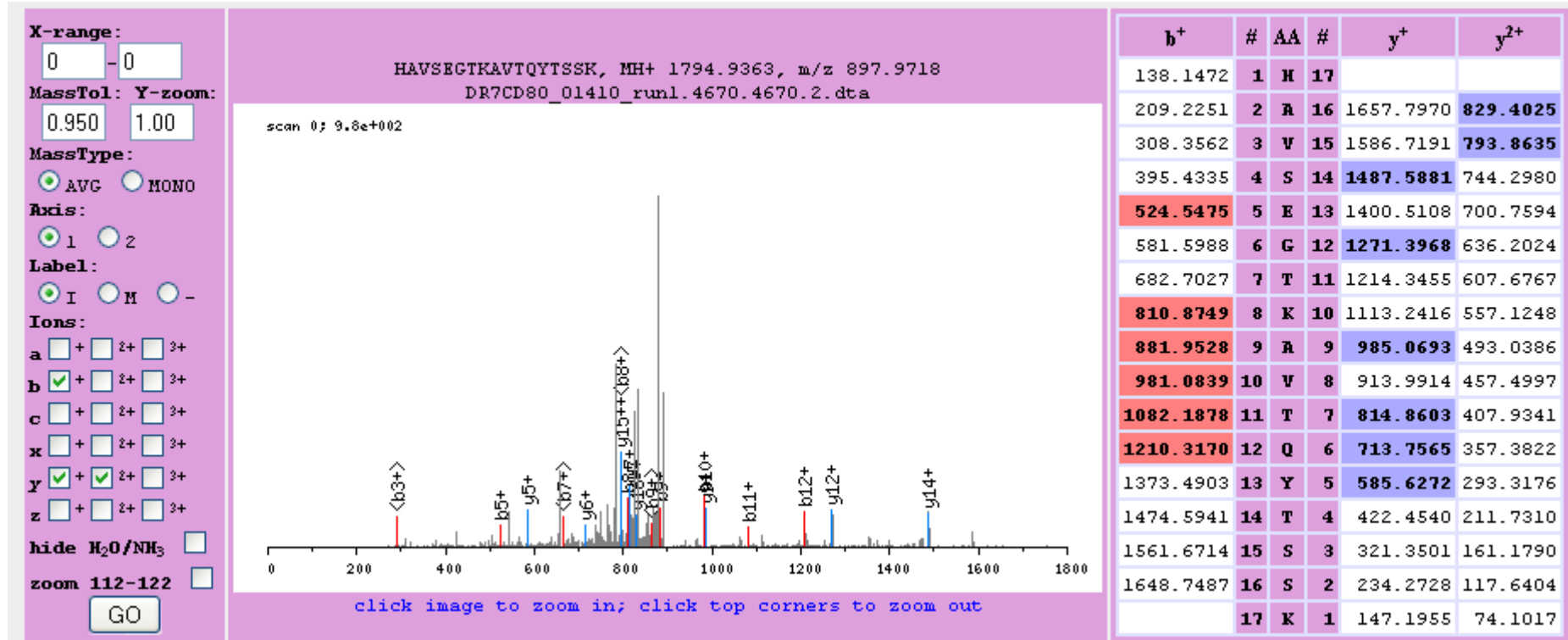
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
100.1390	1	V	14		
171.2169	2	R	13	1337.5873	669.2976
268.3321	3	P	12	1266.5094	633.7587
339.4100	4	R	11	1169.3943	585.2011
436.5252	5	P	10	1098.3164	549.6622
507.6031	6	R	9	1001.2012	501.1046
606.7341	7	V	8	930.1233	465.5656
705.8652	8	V	7	830.9922	416.0001
834.0375	9	K	6	731.8612	366.4346
962.2097	10	K	5	603.6889	302.3484
1090.3390	11	Q	4	475.5166	238.2623
1219.4529	12	E	3	347.3874	174.1977
1290.5308	13	R	2	218.2734	109.6407
	14	K	1	147.1955	74.1017

# KHAVSEGTKAVTQYTSSKI



# SLSAKPAPPKPEPKPKR

**X-range:**  
 -

**MassTol:** **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

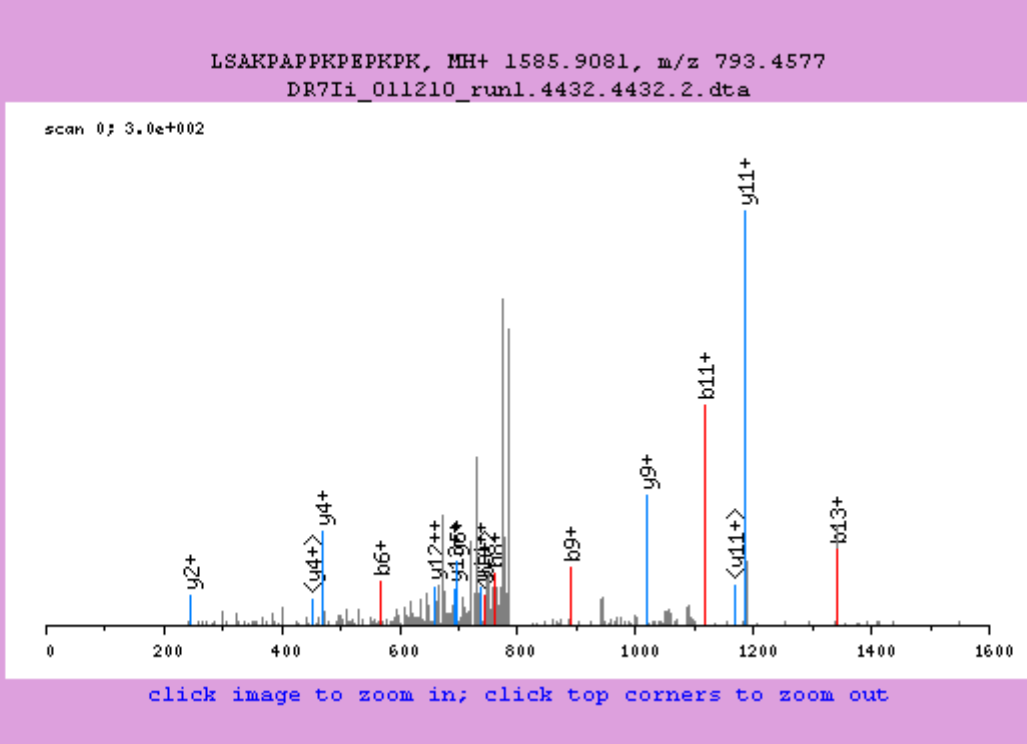
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
114.1656	1	L	15		
201.2429	2	S	14	1472.7505	736.8792
272.3208	3	R	13	1385.6732	693.3406
400.4931	4	K	12	1314.5953	657.8016
497.6082	5	P	11	1186.4230	593.7155
568.6861	6	R	10	1089.3078	545.1579
665.8013	7	P	9	1018.2299	509.6189
762.9165	8	P	8	921.1148	461.0614
891.0888	9	K	7	823.9996	412.5038
988.2040	10	P	6	695.8273	348.4176
1117.3179	11	E	5	598.7121	299.8600
1214.4331	12	P	4	469.5981	235.3030
1342.6054	13	K	3	372.4830	186.7455
1439.7206	14	P	2	244.3107	122.6593
	15	K	1	147.1955	74.1017

# FIRGVVDSEDLPLNISRE

**X-range:** 0 - 0

**MassTol:** 0.950 **Y-zoom:** 1.00

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

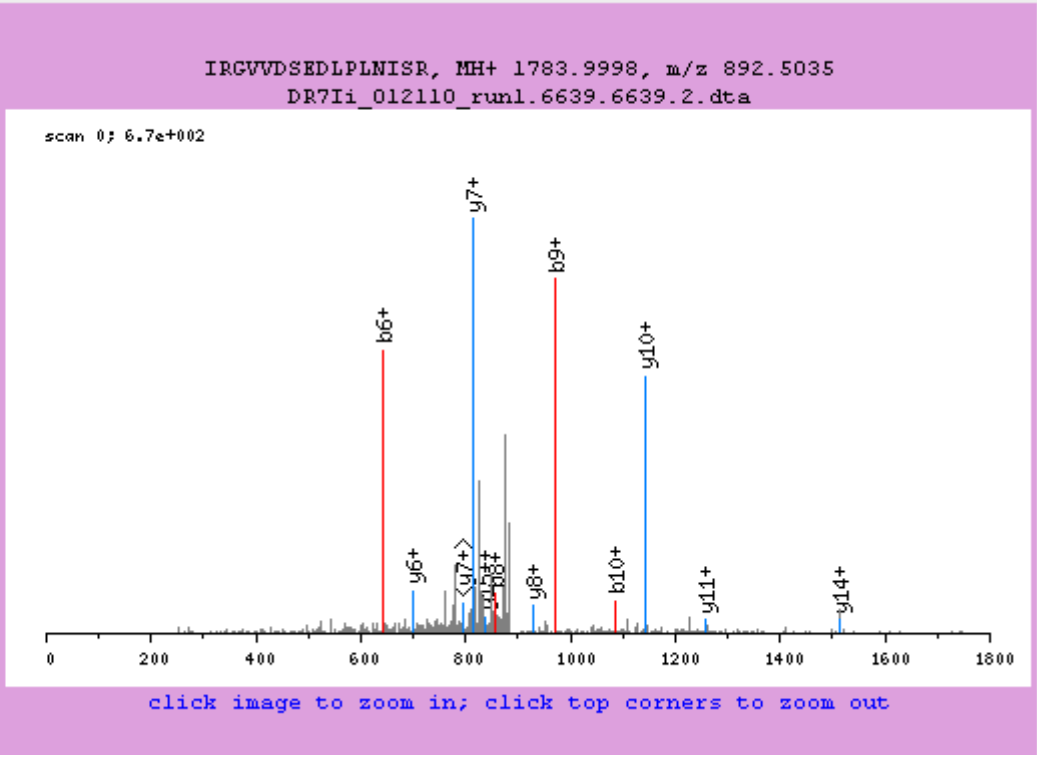
y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

**GO**



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
114.1656	1	I	16		
270.3513	2	R	15	1670.8421	835.9250
327.4026	3	G	14	1514.6565	757.8322
426.5336	4	V	13	1457.6051	729.3065
525.6647	5	V	12	1358.4741	679.7410
640.7521	6	D	11	1259.3430	630.1755
727.8294	7	S	10	1144.2556	572.6318
856.9434	8	E	9	1057.1783	529.0931
972.0308	9	D	8	928.0643	464.5361
1085.1884	10	L	7	812.9769	406.9924
1182.3036	11	P	6	699.8193	350.4136
1295.4612	12	L	5	602.7041	301.8560
1409.5639	13	N	4	489.5465	245.2772
1522.7215	14	I	3	375.4438	188.2259
1609.7988	15	S	2	262.2862	131.6471
	16	R	1	175.2089	88.1084

# LTLKYPIEHGITNWDDMEKIWHHTFY

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Axis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

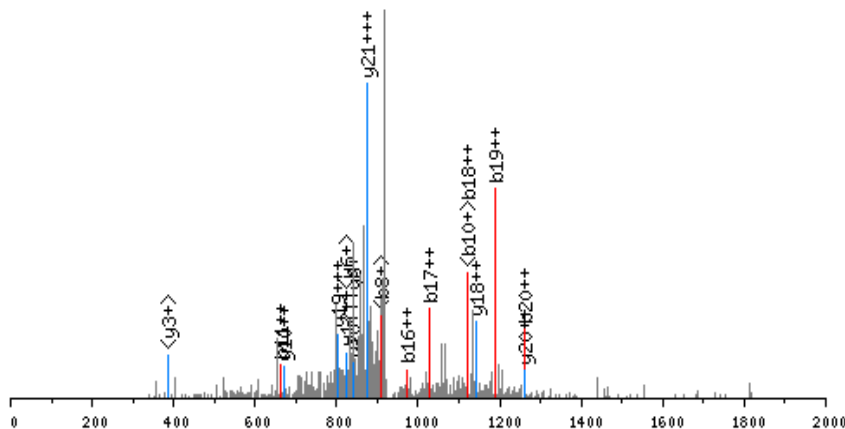
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

YPIEHGITNWDDMEKIWHHTF, MH+ 2784.0865, m/z 928.7004  
DR7Ii\_011210\_run2.8162.8162.3.dta

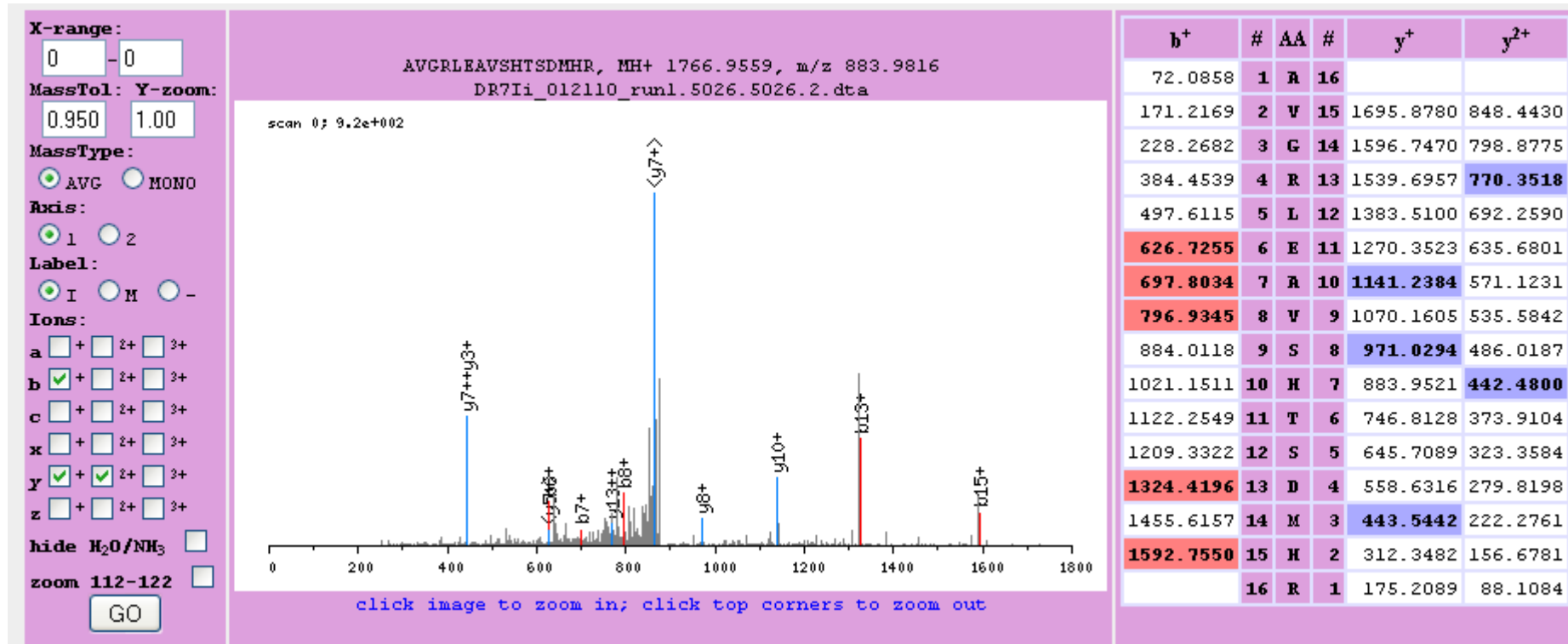
scan 0; 2.9e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	b <sup>2+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>	y <sup>3+</sup>
164.1812	82.5946	1	Y	22			
261.2964	131.1522	2	P	21	2620.9133	1310.9606	874.3097
374.4540	187.7310	3	I	20	2523.7981	1262.4030	841.9380
503.5680	252.2880	4	E	19	2410.6405	1205.8242	804.2188
640.7073	320.8576	5	H	18	2281.5265	1141.2672	761.1808
697.7586	349.3833	6	G	17	2144.3872	1072.6976	715.4677
810.9162	405.9621	7	I	16	2087.3359	1044.1719	696.4506
924.0739	462.5409	8	I	15	1974.1782	987.5931	658.7314
1025.1778	513.0929	9	T	14	1861.0206	931.0143	621.0122
1139.2804	570.1442	10	N	13	1759.9167	880.4623	587.3109
1325.4903	663.2491	11	W	12	1645.8141	823.4110	549.2767
1440.5777	720.7928	12	D	11	1459.6042	730.3061	487.2067
1555.6651	778.3365	13	D	10	1344.5168	672.7624	448.8442
1686.8612	843.9346	14	M	9	1229.4294	615.2187	410.4818
1815.9751	908.4915	15	E	8	1098.2333	549.6206	366.7497
1944.1474	972.5777	16	K	7	969.1193	485.0636	323.7117
2057.3051	1029.1565	17	I	6	840.9471	420.9775	280.9876
2243.5150	1122.2615	18	W	5	727.7894	364.3987	243.2684
2380.6542	1190.8311	19	H	4	541.5795	271.2937	181.1985
2517.7935	1259.4007	20	H	3	404.4402	202.7241	135.4854
2618.8974	1309.9527	21	T	2	267.3010	134.1545	89.7723
		22	F	1	166.1971	83.6025	56.0710

# RAVGRLEAVSHTSDMHRG



# QETIDKTANQASDTFSGIGKKF

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Axis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

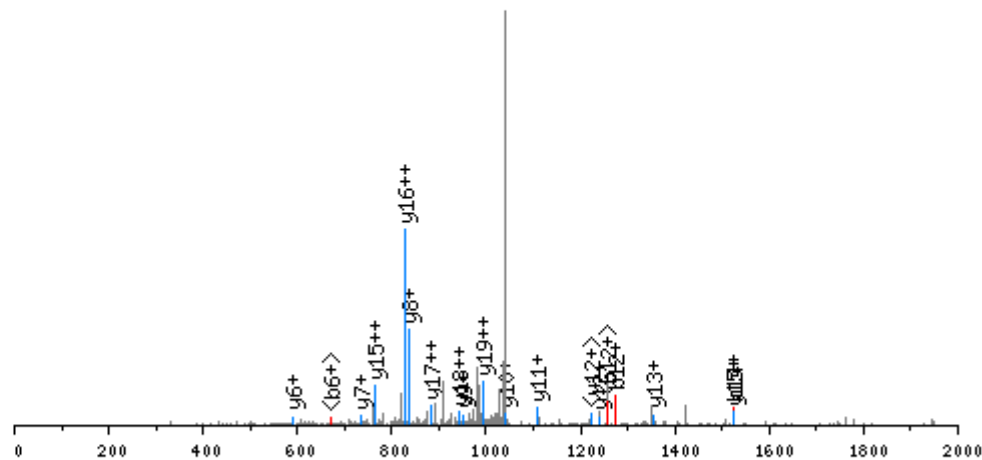
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

ETIDKTANQASDTFSGIGKK, MH+ 2112.2745, m/z 1056.6409  
DR7CD80\_012610\_run1.6046.6046.2.dta

scan 0; 1.6e+003



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
130.1219	1	E	20		
231.2258	2	T	19	1983.1605	992.0842
344.3834	3	I	18	1882.0567	941.5323
459.4708	4	D	17	1768.8990	884.9535
587.6431	5	K	16	1653.8116	827.4098
688.7470	6	T	15	1525.6393	763.3236
759.8249	7	R	14	1424.5355	712.7717
873.9275	8	N	13	1353.4576	677.2328
1002.0568	9	Q	12	1239.3549	620.1814
1073.1347	10	R	11	1111.2257	556.1168
1160.2120	11	S	10	1040.1478	520.5779
1275.2994	12	D	9	953.0705	477.0392
1376.4032	13	T	8	837.9831	419.4955
1523.5771	14	F	7	736.8792	368.9436
1610.6544	15	S	6	589.7054	295.3566
1667.7057	16	G	5	502.6281	251.8180
1780.8634	17	I	4	445.5767	223.2923
1837.9147	18	G	3	332.4191	166.7135
1966.0870	19	K	2	275.3678	138.1879
	20	K	1	147.1955	74.1017

# LYKAGENRWGTDEDKFT

X-range:  -

MassTol:  Y-zoom:

MassType:  
 AVG  MONO

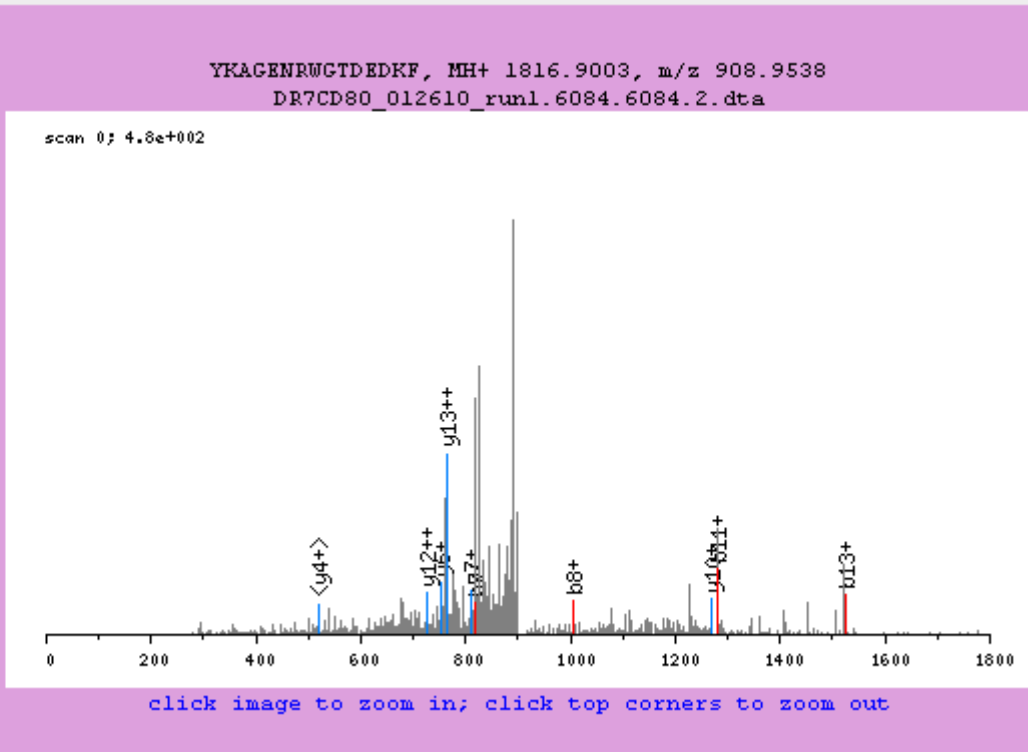
Axis:  
 1  2

Label:  
 I  M  -

Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom

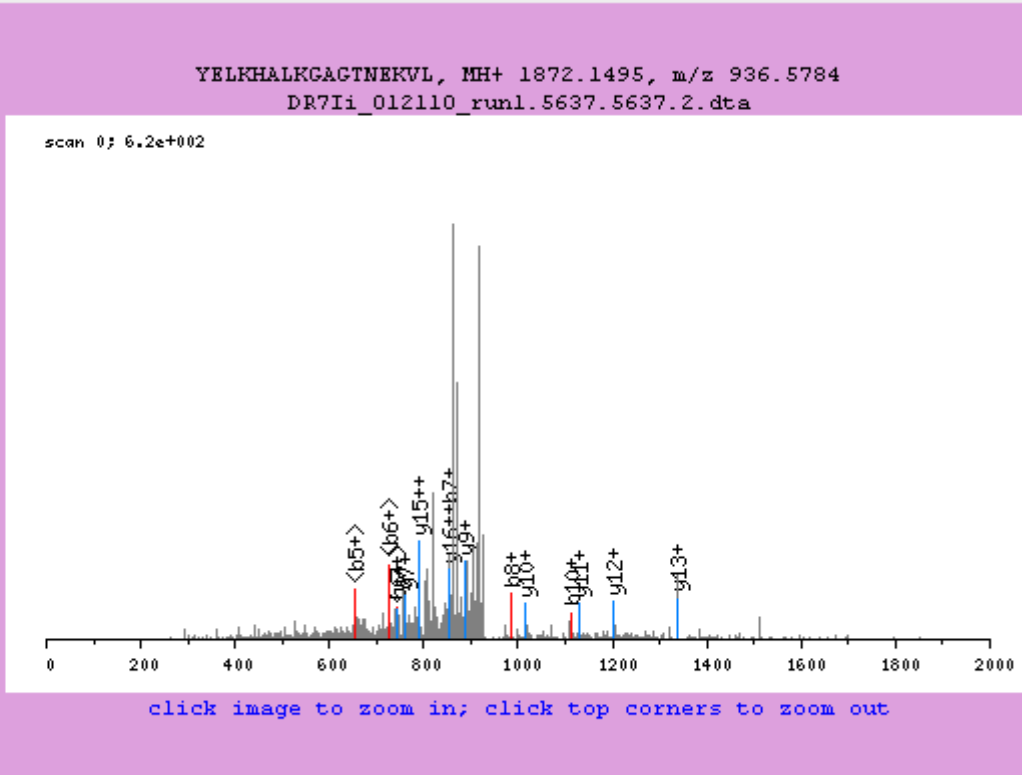


b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
164.1812	1	Y	15		
292.3535	2	K	14	1653.7270	827.3675
363.4314	3	R	13	1525.5548	<b>763.2813</b>
420.4827	4	G	12	1454.4769	<b>727.7424</b>
549.5967	5	E	11	1397.4255	699.2167
663.6993	6	N	10	<b>1268.3116</b>	634.6597
<b>819.8850</b>	7	R	9	1154.2089	577.6084
<b>1006.0949</b>	8	W	8	998.0232	499.5156
1063.1462	9	G	7	<b>811.8133</b>	406.4106
1164.2501	10	T	6	<b>754.7620</b>	377.8850
<b>1279.3375</b>	11	D	5	653.6581	327.3330
1408.4515	12	E	4	538.5707	269.7893
<b>1523.5389</b>	13	D	3	409.4568	205.2323
1651.7112	14	K	2	294.3694	147.6886
	15	F	1	166.1971	83.6025



# AYELKHALKGAGTNEKVL

**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
 a  +  2+  3+  
 b  +  2+  3+  
 c  +  2+  3+  
 x  +  2+  3+  
 Y  +  2+  3+  
 z  +  2+  3+  
 hide H<sub>2</sub>O/NH<sub>3</sub>  
 zoom



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
164.1812	1	Y	17		
293.2952	2	E	16	1708.9762	854.9921
406.4528	3	L	15	1579.8623	790.4351
534.6251	4	K	14	1466.7046	733.8563
671.7644	5	H	13	1338.5323	669.7701
742.8423	6	R	12	1201.3931	601.2005
855.9999	7	L	11	1130.3152	565.6615
984.1722	8	K	10	1017.1575	509.0827
1041.2235	9	G	9	888.9852	444.9966
1112.3014	10	R	8	831.9339	416.4709
1169.3527	11	G	7	760.8560	380.9320
1270.4566	12	T	6	703.8047	352.4063
1384.5593	13	N	5	602.7008	301.8544
1513.6732	14	E	4	488.5982	244.8031
1641.8455	15	K	3	359.4842	180.2461
1740.9766	16	V	2	231.3119	116.1599
	17	L	1	132.1809	66.5944

# FRFGAPPHAGGGIGLERV

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

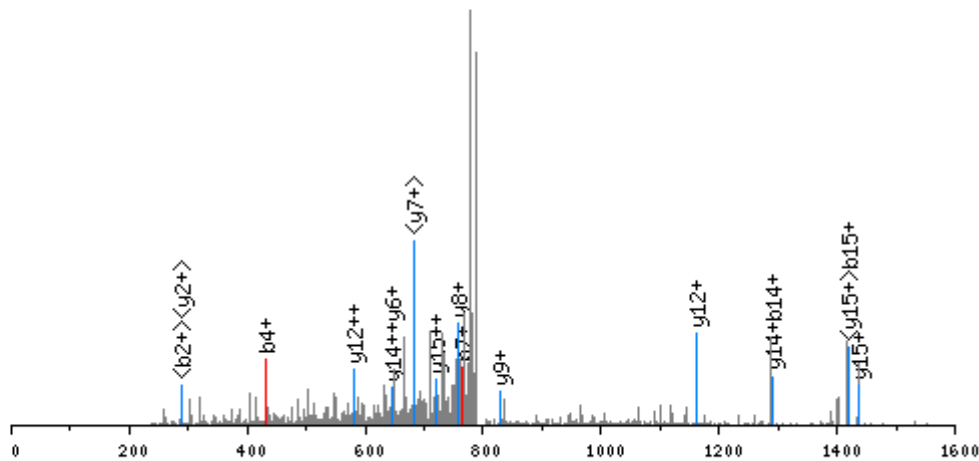
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

RFGAPPHAGGGIGLER, MH+ 1592.7797, m/z 796.8935  
 DR7Ii\_012110\_run1.5605.5605.2.dta

scan 0; 1.4e+003

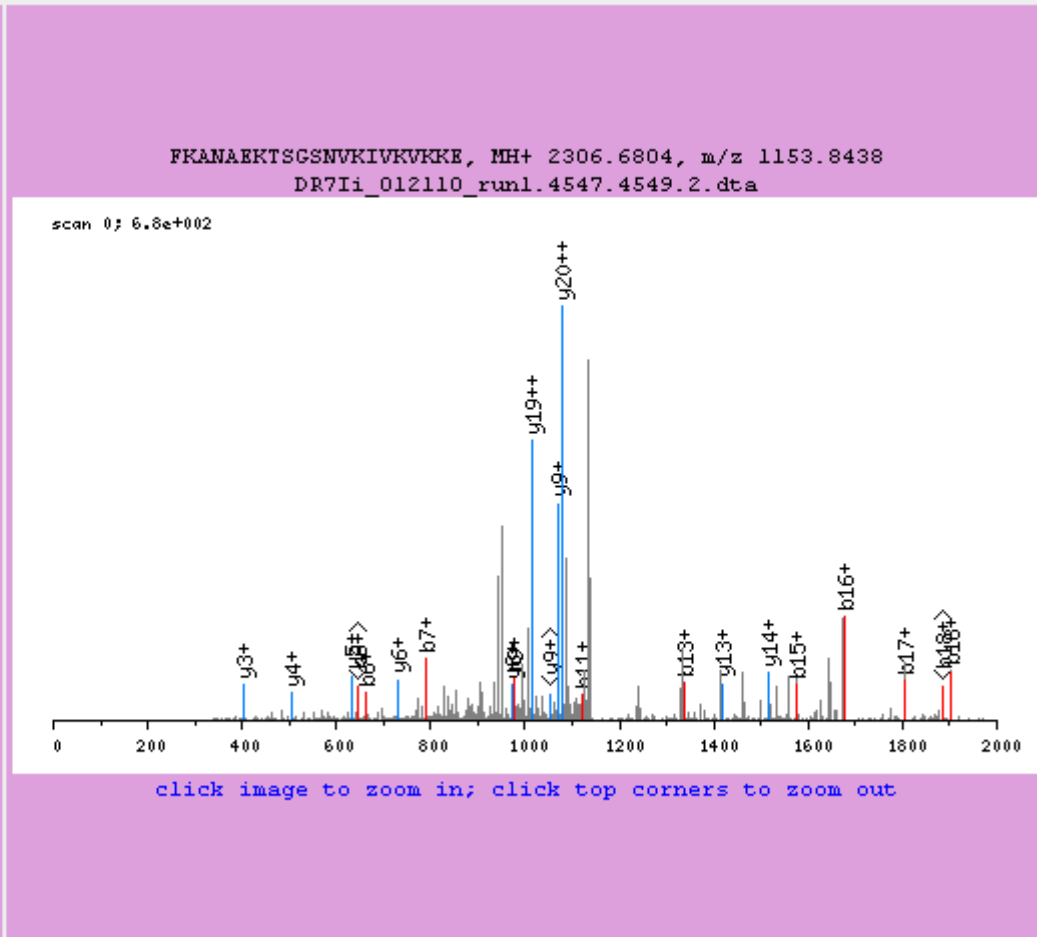


click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
157.1936	1	R	16		
304.3675	2	F	15	1436.5941	718.8010
361.4188	3	G	14	1289.4202	645.2141
432.4967	4	R	13	1232.3689	616.6884
529.6119	5	P	12	1161.2910	581.1495
626.7271	6	P	11	1064.1758	532.5919
763.8663	7	H	10	967.0606	484.0343
834.9442	8	R	9	829.9213	415.4646
891.9956	9	G	8	758.8434	379.9257
949.0469	10	G	7	701.7921	351.4000
1006.0982	11	G	6	644.7408	322.8744
1119.2558	12	I	5	587.6895	294.3487
1176.3072	13	G	4	474.5318	237.7699
1289.4648	14	L	3	417.4805	209.2442
1418.5788	15	E	2	304.3229	152.6654
	16	R	1	175.2089	88.1084

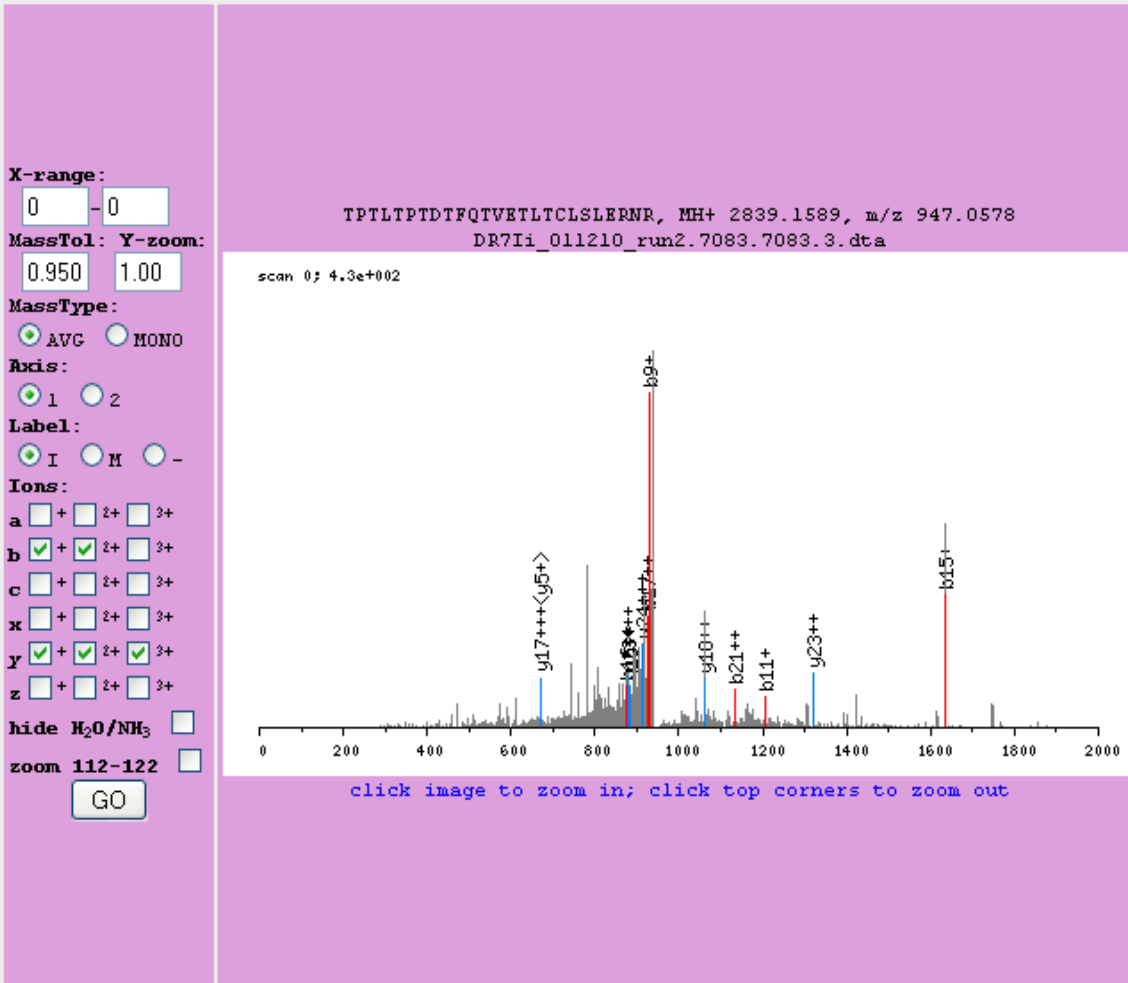
# EFKANA EKTSGSNVKIVKVKKE

**X-range:**  
 -   
**MassTol:** **Y-zoom:**  
   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
**a**  +  2+  3+  
**b**  +  2+  3+  
**c**  +  2+  3+  
**x**  +  2+  3+  
**y**  +  2+  3+  
**z**  +  2+  3+  
**hide H<sub>2</sub>O/NH<sub>3</sub>**   
**zoom 112-122**



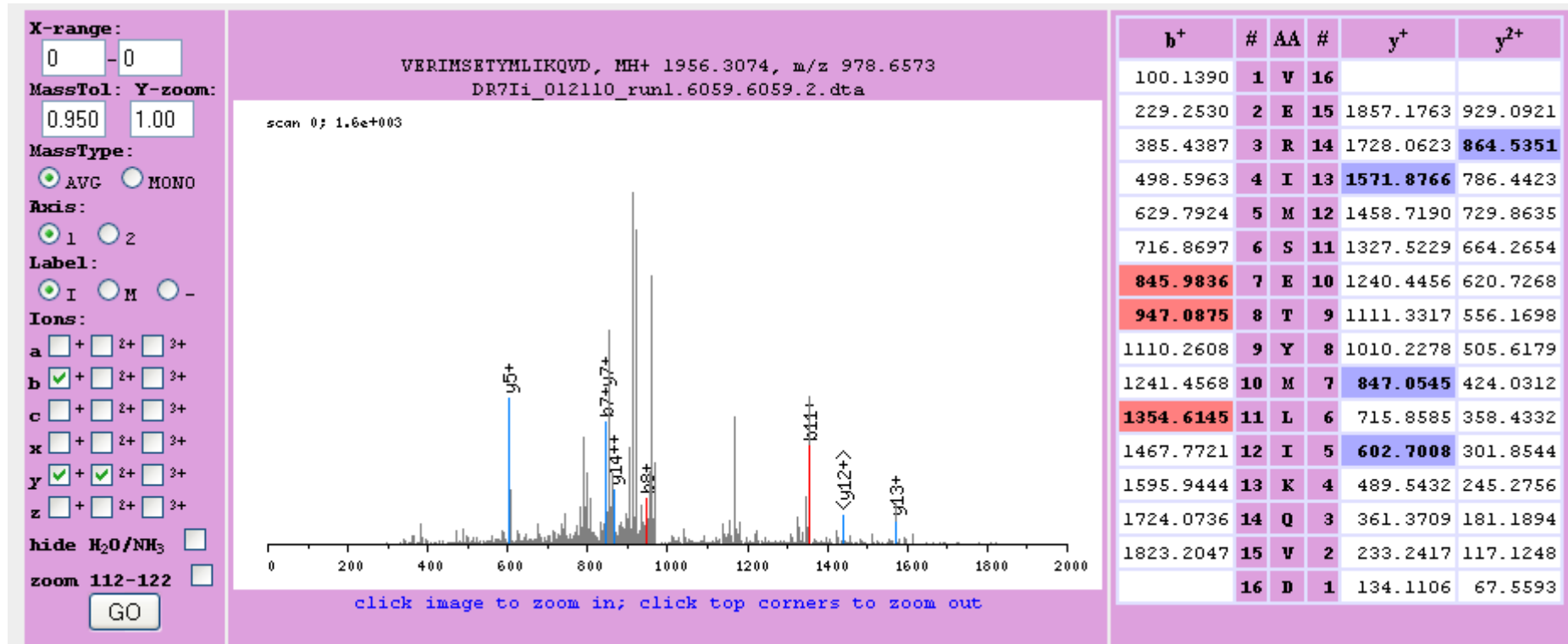
b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
148.1818	1	F	21		
276.3541	2	K	20	2159.5066	1080.2572
347.4320	3	R	19	2031.3343	1016.1711
461.5346	4	N	18	1960.2564	980.6322
532.6125	5	R	17	1846.1537	923.5808
661.7265	6	E	16	1775.0758	888.0419
789.8988	7	K	15	1645.9619	823.4849
891.0027	8	T	14	1517.7896	759.3988
978.0800	9	S	13	1416.6857	708.8468
1035.1313	10	G	12	1329.6084	665.3082
1122.2086	11	S	11	1272.5571	636.7825
1236.3112	12	N	10	1185.4798	593.2439
1335.4423	13	V	9	1071.3771	536.1925
1463.6146	14	K	8	972.2461	486.6270
1576.7722	15	I	7	844.0738	422.5409
1675.9033	16	V	6	730.9162	365.9620
1804.0755	17	K	5	631.7851	316.3965
1903.2066	18	V	4	503.6128	252.3104
2031.3789	19	K	3	404.4818	202.7448
2159.5512	20	K	2	276.3095	138.6587
	21	E	1	148.1372	74.5726

# STPTLTPTDTFQTVETLTCLSLERNRL



b <sup>+</sup>	b <sup>2+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>	y <sup>3+</sup>
102.1118	51.5599	1	T	25			
199.2270	100.1175	2	P	24	2738.0550	1369.5315	913.3570
300.3309	150.6694	3	T	23	2640.9398	1320.9739	880.9852
413.4885	207.2482	4	L	22	2539.8359	1270.4219	847.2839
514.5924	257.8002	5	T	21	2426.6783	1213.8431	809.5647
611.7076	306.3578	6	P	20	2325.5744	1163.2912	775.8634
712.8115	356.9097	7	T	19	2228.4592	1114.7336	743.4917
827.8989	414.4534	8	D	18	2127.3554	1064.1817	709.7904
929.0027	465.0053	9	T	17	2012.2680	1006.6380	671.4279
1076.1766	538.5923	10	F	16	1911.1641	956.0860	637.7267
1204.3058	602.6569	11	Q	15	1763.9902	882.4991	588.6687
1305.4097	653.2088	12	T	14	1635.8610	818.4345	545.9590
1404.5408	702.7744	13	V	13	1534.7571	767.8825	512.2577
1533.6547	767.3313	14	E	12	1435.6261	718.3170	479.2140
1634.7586	817.8833	15	T	11	1306.5121	653.7600	436.1760
1747.9163	874.4621	16	L	10	1205.4082	603.2081	402.4747
1849.0201	925.0140	17	T	9	1092.2506	546.6293	364.7555
1952.1630	976.5855	18	C	8	991.1467	496.0773	331.0542
2065.3207	1033.1643	19	L	7	888.0038	444.5059	296.6732
2152.3980	1076.7030	20	S	6	774.8461	387.9270	258.9540
2265.5556	1133.2818	21	L	5	687.7688	344.3884	229.9282
2394.6696	1197.8388	22	E	4	574.6112	287.8096	192.2090
2550.8553	1275.9316	23	R	3	445.4972	223.2526	149.1710
2664.9579	1332.9829	24	N	2	289.3115	145.1597	97.1091
		25	R	1	175.2089	88.1084	59.0749

# RVERIMSETYMLIKQVDE



# TRGAARAAVSPAGGARSAPARATAAPRRAATHRPA

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Acis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

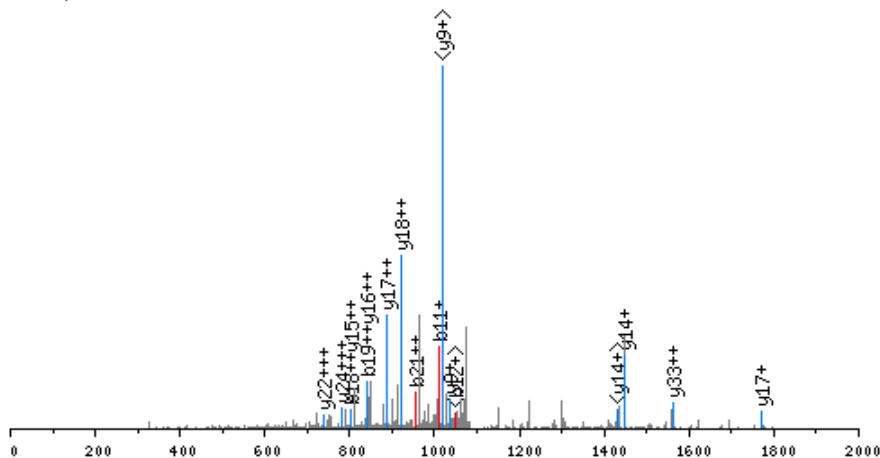
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

RGAAARAAVSPAGGARSAPARATAAPRRAATHRPA, MH+ 3279.6610, m/z 1093.8918  
DR7Ii\_011210\_run1.6264.6264.3.dta

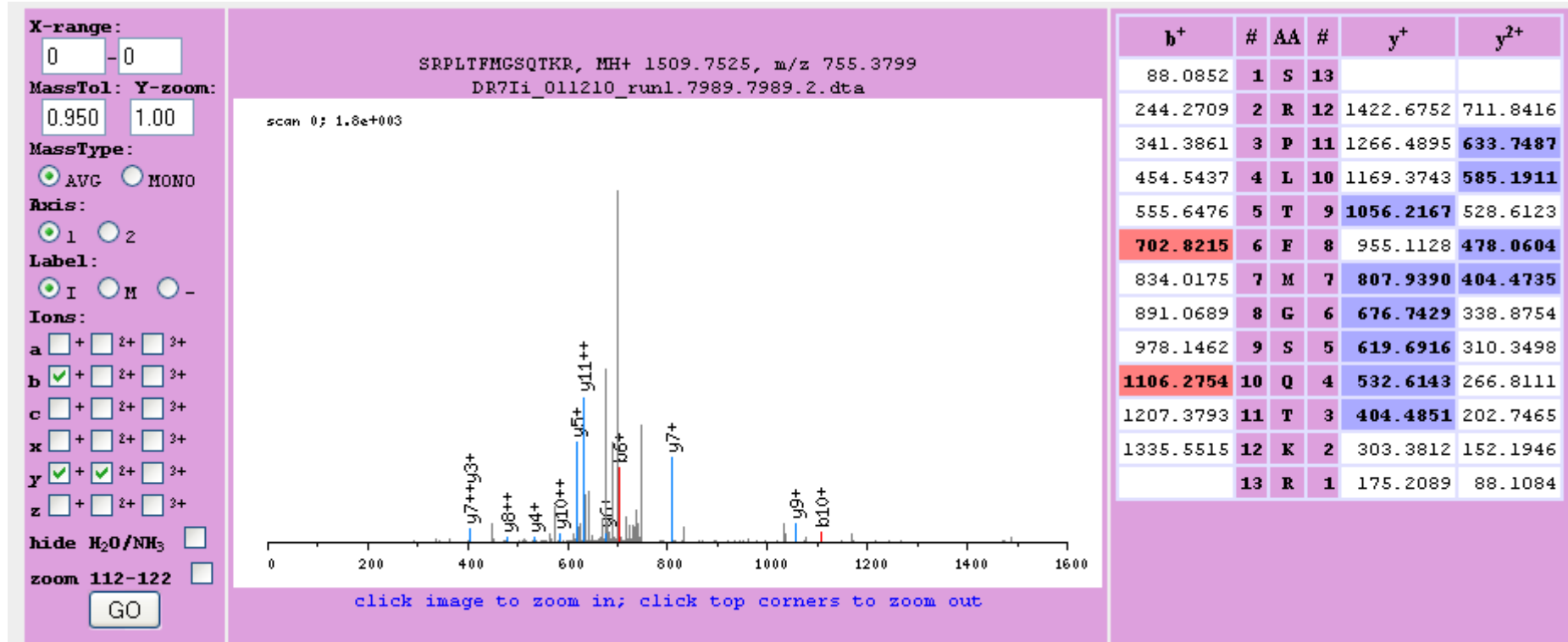
scan 0: 3.3e+003



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	b <sup>2+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>	y <sup>3+</sup>
157.1936	79.1008	1	R	34			
214.2449	107.6264	2	G	33	3123.4753	1562.2416	1041.8304
285.3228	143.1654	3	R	32	3066.4240	1533.7160	1022.8133
356.4007	178.7043	4	R	31	2995.3461	1498.1770	999.1206
512.5864	256.7972	5	R	30	2924.2682	1462.6380	975.4280
583.6643	292.3361	6	R	29	2768.0825	1384.5452	923.3661
654.7422	327.8751	7	R	28	2697.0046	1349.0063	899.6735
753.8733	377.4406	8	V	27	2625.9267	1313.4673	875.9809
840.9506	420.9793	9	S	26	2526.7956	1263.9018	842.9372
938.0658	469.5369	10	P	25	2439.7183	1220.3631	813.9114
1009.1437	505.0758	11	R	24	2342.6031	1171.8055	781.5397
1066.1950	533.6015	12	G	23	2271.5252	1136.2666	757.8470
1123.2463	562.1271	13	G	22	2214.4739	1107.7409	738.8299
1194.3242	597.6661	14	R	21	2157.4226	1079.2153	719.8128
1350.5099	675.7589	15	R	20	2086.3447	1043.6763	696.1202
1437.5872	719.2976	16	S	19	1930.1590	965.5835	644.0583
1508.6651	754.8365	17	R	18	1843.0817	922.0448	615.0325
1605.7803	803.3941	18	P	17	1772.0038	886.5059	591.3399
1676.8582	838.9330	19	R	16	1674.8886	837.9483	558.9682
1833.0438	917.0259	20	R	15	1603.8107	802.4093	535.2755
1904.1217	952.5648	21	R	14	1447.6251	724.3165	483.2136
2005.2256	1003.1168	22	T	13	1376.5472	688.7775	459.5210
2076.3035	1038.6557	23	R	12	1275.4433	638.2256	425.8197
2147.3814	1074.1947	24	R	11	1204.3654	602.6867	402.1271
2244.4966	1122.7523	25	P	10	1133.2875	567.1477	378.4345
2400.6823	1200.8451	26	R	9	1036.1723	518.5901	346.0627
2556.8680	1278.9380	27	R	8	879.9866	440.4973	294.0008
2627.9459	1314.4769	28	R	7	723.8009	362.4044	241.9389
2699.0238	1350.0159	29	R	6	652.7230	326.8655	218.2463
2800.1276	1400.5678	30	T	5	581.6451	291.3265	194.5537
2937.2669	1469.1374	31	H	4	480.5413	240.7746	160.8524
3093.4526	1547.2303	32	R	3	343.4020	172.2050	115.1393
3190.5678	1595.7879	33	P	2	187.2163	94.1121	63.0774
		34	R	1	90.1011	45.5545	30.7057

# PSRPLTFMGSQTKRV



# TRVALLEQQVLI

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Axis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

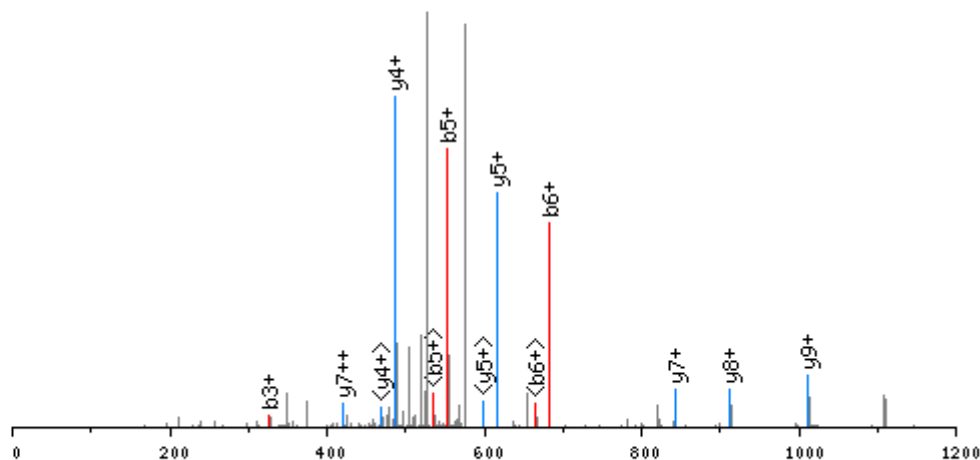
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

RVALLEQQVL, MH+ 1169.3943, m/z 585.2008  
DR7CD80\_012610\_run1.5699.5699.2.dta

scan 0; 4.0e+003



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
157.1936	1	R	10		
256.3247	2	V	9	1013.2086	507.1083
327.4026	3	R	8	914.0775	457.5427
440.5602	4	L	7	842.9996	422.0038
553.7179	5	L	6	729.8420	365.4250
682.8318	6	E	5	616.6843	308.8461
810.9611	7	Q	4	487.5704	244.2891
939.0903	8	Q	3	359.4411	180.2245
1038.2213	9	V	2	231.3119	116.1599
	10	L	1	132.1809	66.5944



# DFIKSELKKAGGANYDAQTE

X-range:  -

MassTol:  Y-zoom:

MassType:  
 AVG  MONO

Axis:  
 1  2

Label:  
 I  M  -

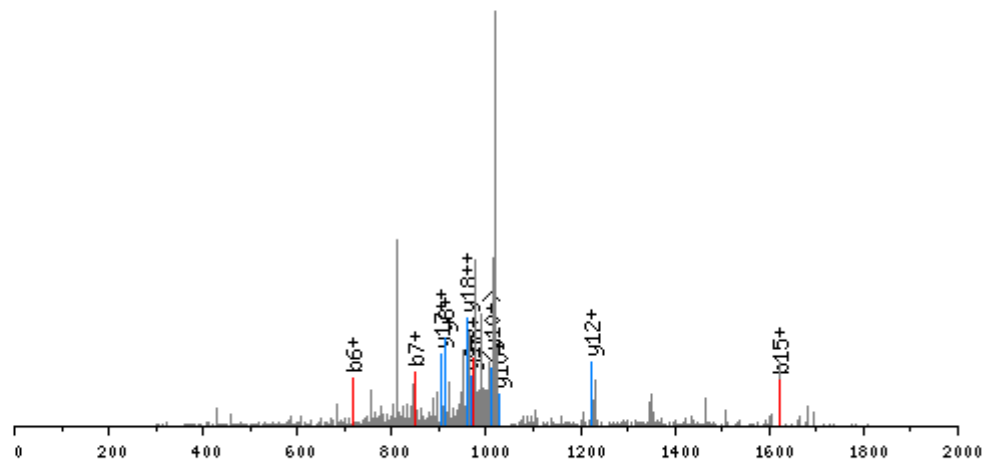
Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom

FIKSELKKAGGANYDAQTE, MH+ 2071.2672, m/z 1036.1372  
 DR7Ii\_011210\_run2.5514.5514.2.dta

scan #: 5.3e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
148.1818	1	F	19		
261.3394	2	I	18	1924.0933	962.5506
389.5117	3	K	17	1810.9357	905.9718
476.5890	4	S	16	1682.7634	841.8857
605.7030	5	E	15	1595.6861	798.3470
718.8606	6	L	14	1466.5721	733.7900
847.0329	7	K	13	1353.4145	677.2112
975.2052	8	K	12	1225.2422	613.1251
1046.2831	9	R	11	1097.0699	549.0389
1103.3344	10	G	10	1025.9920	513.5000
1160.3857	11	G	9	968.9407	484.9743
1231.4636	12	R	8	911.8894	456.4487
1345.5663	13	N	7	840.8115	420.9097
1508.7395	14	Y	6	726.7089	363.8584
1623.8269	15	D	5	563.5356	282.2718
1694.9048	16	R	4	448.4482	224.7281
1823.0341	17	Q	3	377.3703	189.1891
1924.1379	18	T	2	249.2411	125.1245
	19	E	1	148.1372	74.5726

# LYDATYETKESKKEDLV

X-range:  -

MassTol:  Y-zoom:

MassType:  
 AVG  MONO

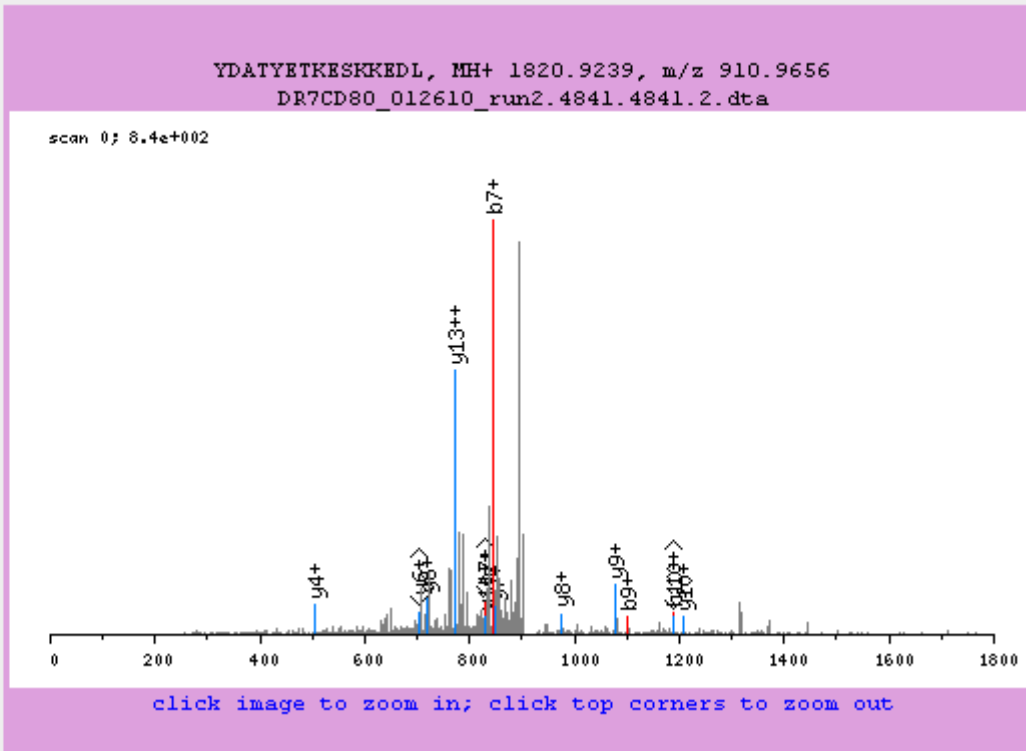
Axis:  
 1  2

Label:  
 I  M  -

Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

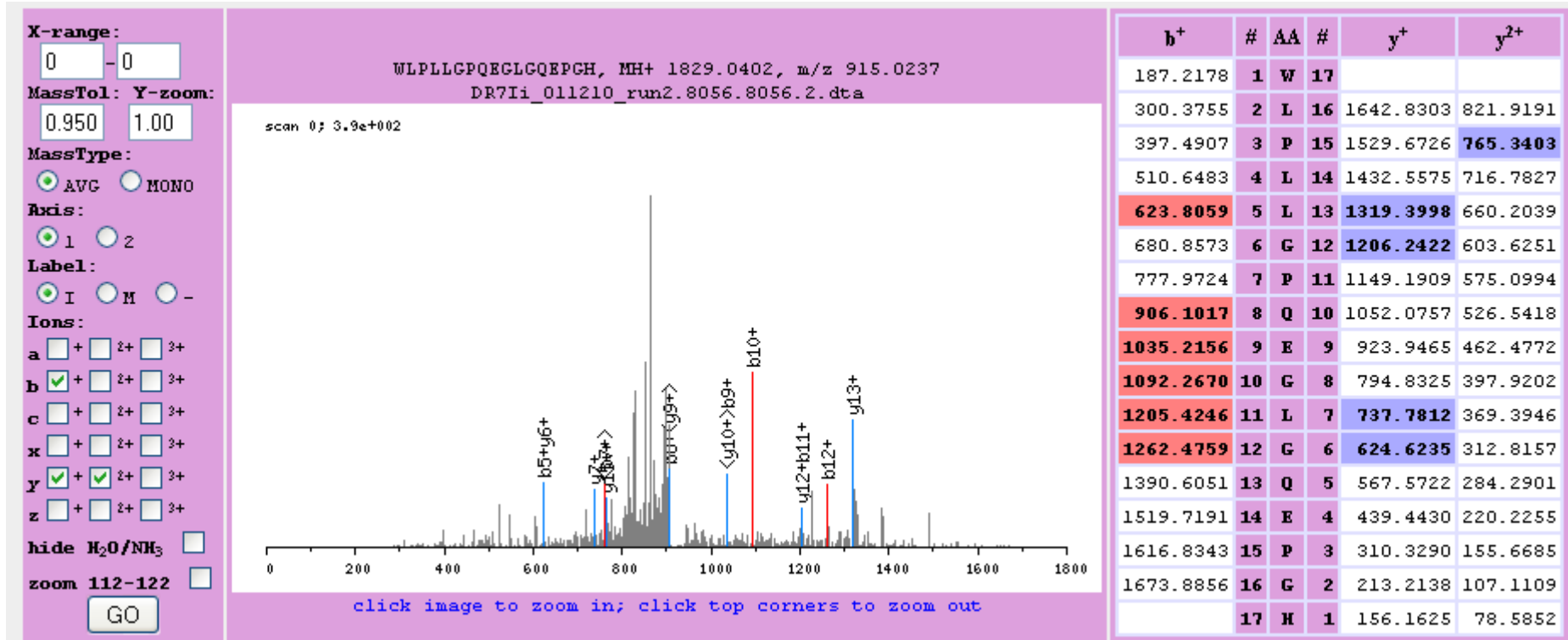
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
164.1812	1	Y	15		
279.2686	2	D	14	1657.7507	829.3793
350.3465	3	R	13	1542.6633	771.8356
451.4504	4	T	12	1471.5854	736.2966
614.6236	5	Y	11	1370.4815	685.7447
743.7376	6	E	10	1207.3082	604.1581
844.8415	7	T	9	1078.1942	539.6011
973.0138	8	K	8	977.0904	489.0491
1102.1278	9	E	7	848.9181	424.9630
1189.2051	10	S	6	719.8041	360.4060
1317.3773	11	K	5	632.7268	316.8674
1445.5496	12	K	4	504.5545	252.7812
1574.6636	13	E	3	376.3822	188.6951
1689.7510	14	D	2	247.2683	124.1381
	15	L	1	132.1809	66.5944

# IWLPLLGPQEGLGQEPGHL



# YLKSHHGEHERPEFI

X-range:  -

MassTol:  Y-zoom:

MassType:  AVG  MONO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

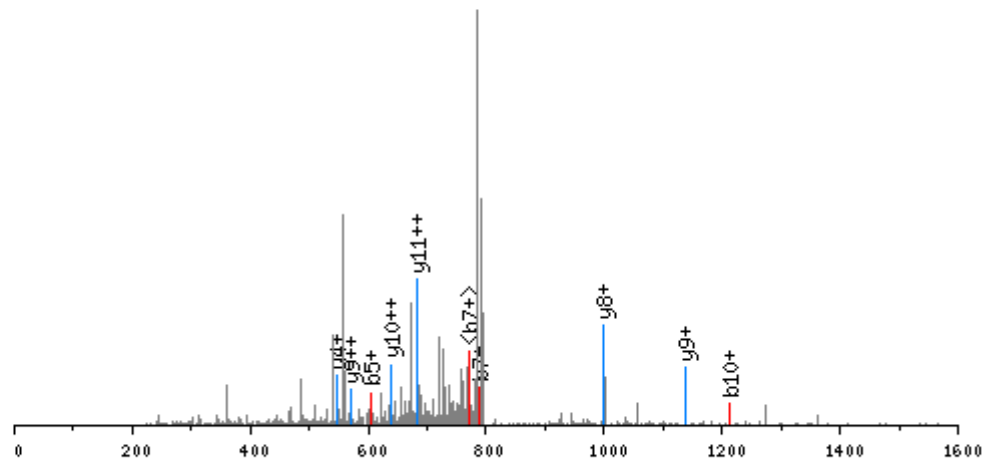
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

YLKSHHGEHERPEF, MH+ 1603.7163, m/z 802.3618  
DR7Ii\_012110\_run1.4527.4527.2.dta

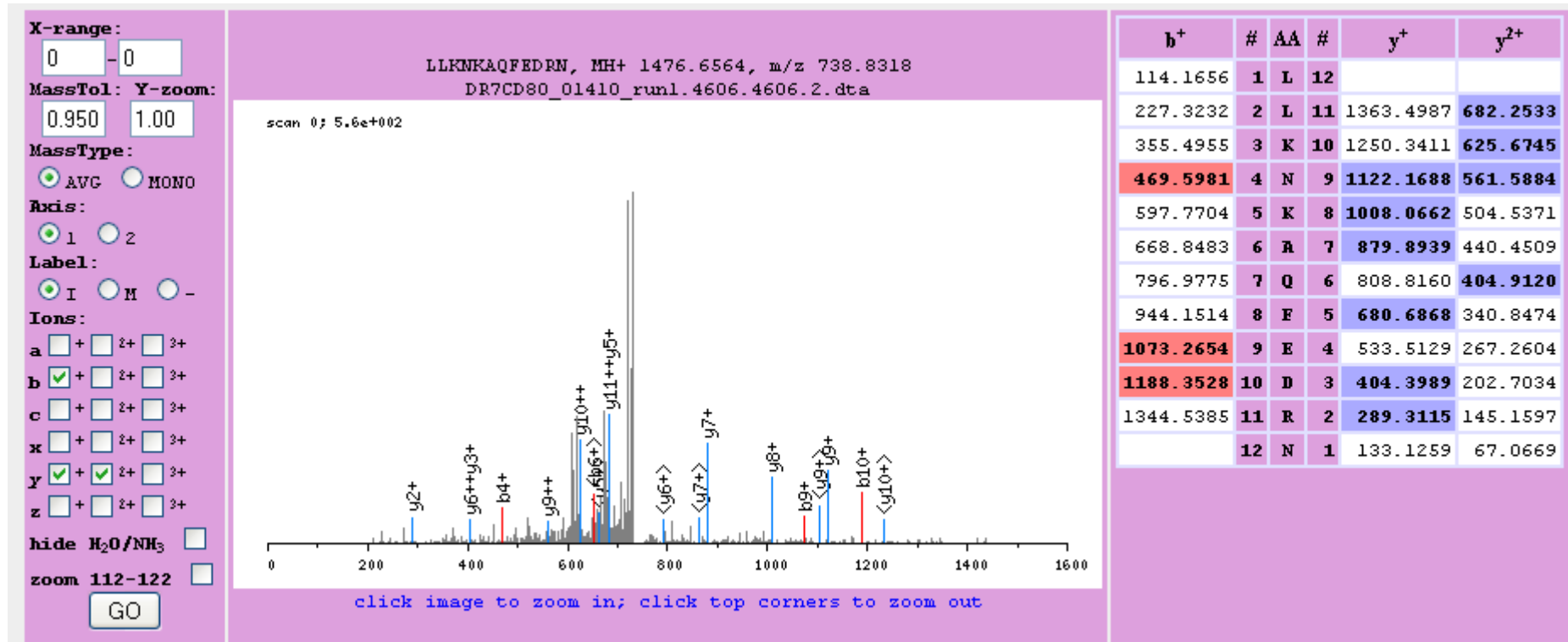
scan 0; 8.5e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
114.1656	1	L	13		
242.3379	2	K	12	1490.5586	745.7833
329.4152	3	S	11	1362.3863	681.6971
466.5544	4	H	10	1275.3090	638.1585
603.6937	5	H	9	1138.1698	569.5889
660.7450	6	G	8	1001.0305	501.0192
789.8590	7	E	7	943.9792	472.4936
926.9983	8	H	6	814.8652	407.9366
1056.1123	9	E	5	677.7259	339.3669
1212.2980	10	R	4	548.6119	274.8099
1309.4131	11	P	3	392.4262	196.7171
1438.5271	12	E	2	295.3111	148.1595
	13	F	1	166.1971	83.6025

# YLLKNKAQFEDRN



# RTYNRVPLHKPTDWQKKIL

X-range:  -

MassTol:  Y-zoom:

MassType:  AVG  MOMO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

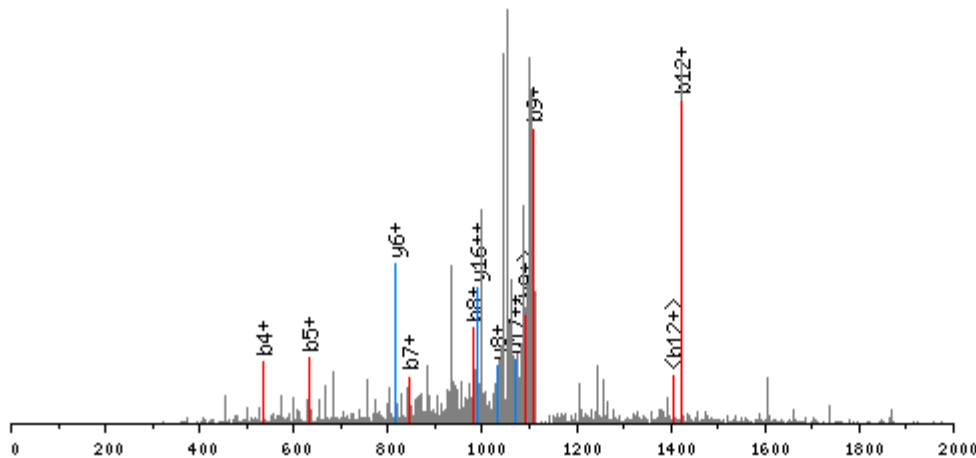
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

TYNRVPLHKPTDWQKKIL, MH+ 2238.6095, m/z 1119.8084  
DR7Ii\_011210\_run2.6194.6194.2.dta

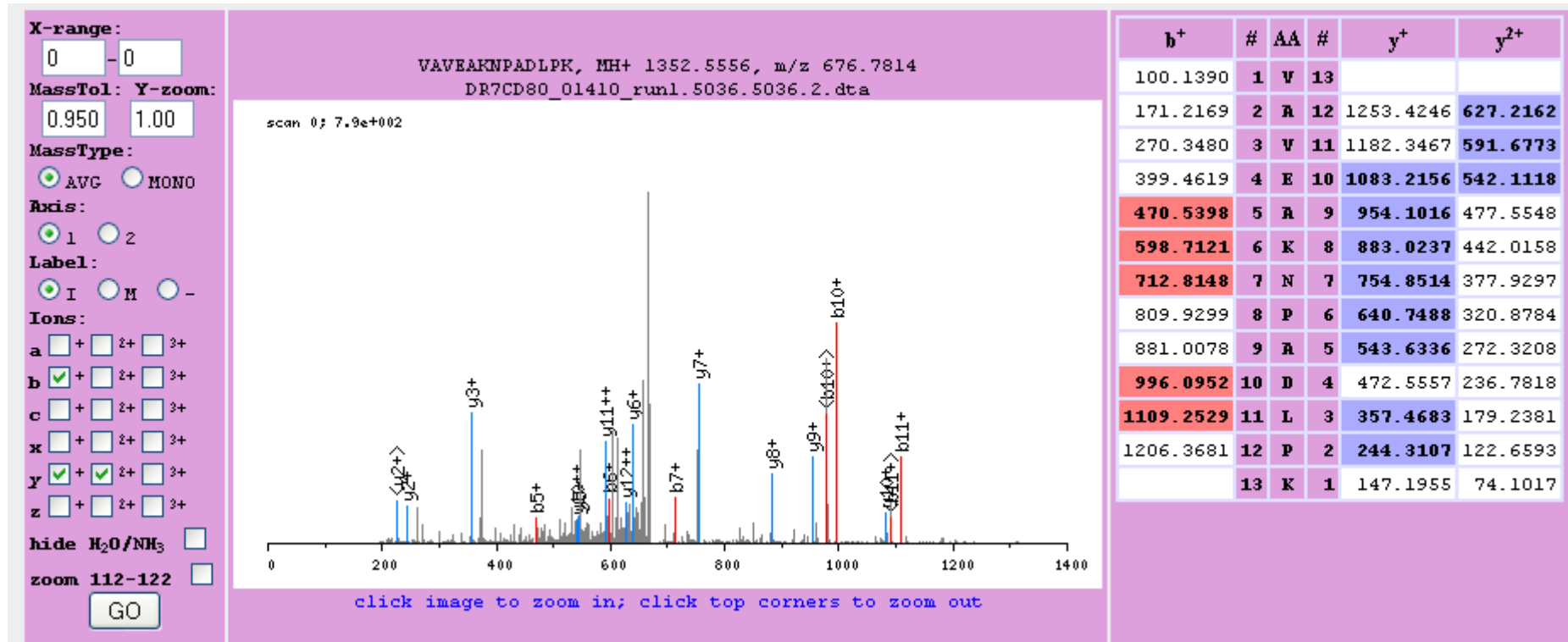
scan 0: 6.2e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
102.1118	1	T	18		
265.2851	2	Y	17	2137.5057	1069.2568
379.3877	3	N	16	1974.3324	987.6702
535.5734	4	R	15	1860.2298	930.6188
634.7045	5	V	14	1704.0441	852.5260
731.8196	6	P	13	1604.9130	802.9605
844.9773	7	L	12	1507.7978	754.4029
982.1166	8	H	11	1394.6402	697.8241
1110.2888	9	K	10	1257.5009	629.2544
1207.4040	10	P	9	1129.3286	565.1683
1308.5079	11	T	8	1032.2135	516.6107
1423.5953	12	D	7	931.1096	466.0588
1609.8052	13	W	6	816.0222	408.5151
1737.9344	14	Q	5	629.8123	315.4101
1866.1067	15	K	4	501.6831	251.3455
1994.2790	16	K	3	373.5108	187.2594
2107.4366	17	I	2	245.3385	123.1732
	18	L	1	132.1809	66.5944

# RVAVEAKNPADLPKL



# NVGKLLKGIDRYNPENLA

X-range:  -

MassTol:  Y-zoom:

MassType:  
 AVG  MONO

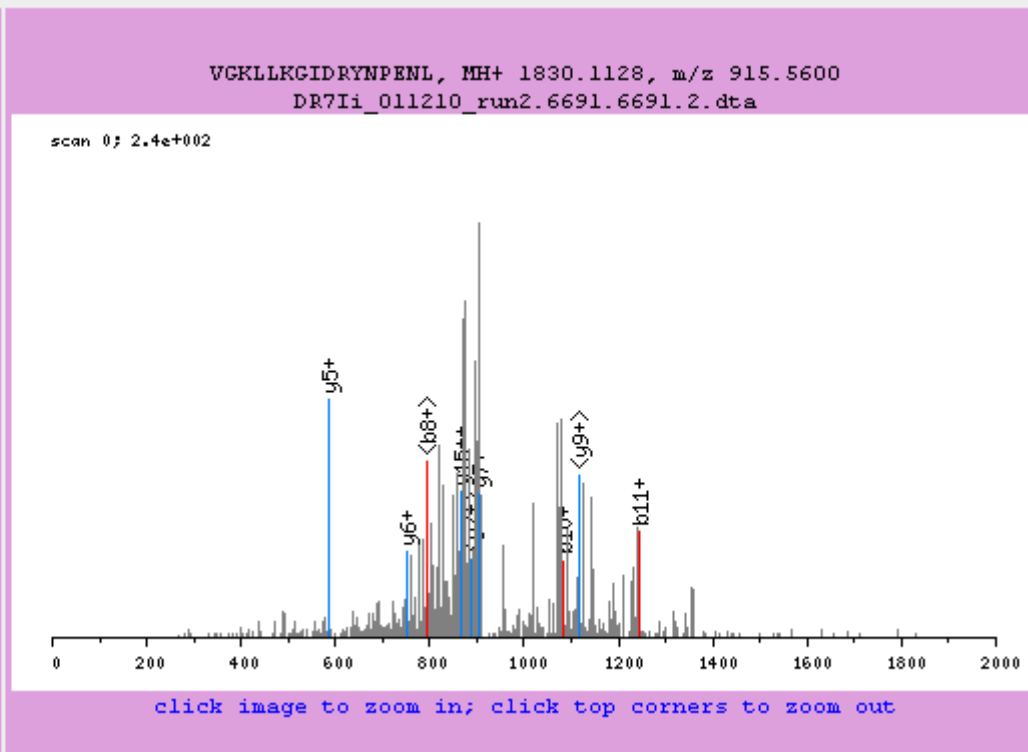
Axis:  
 1  2

Label:  
 I  M  -

Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

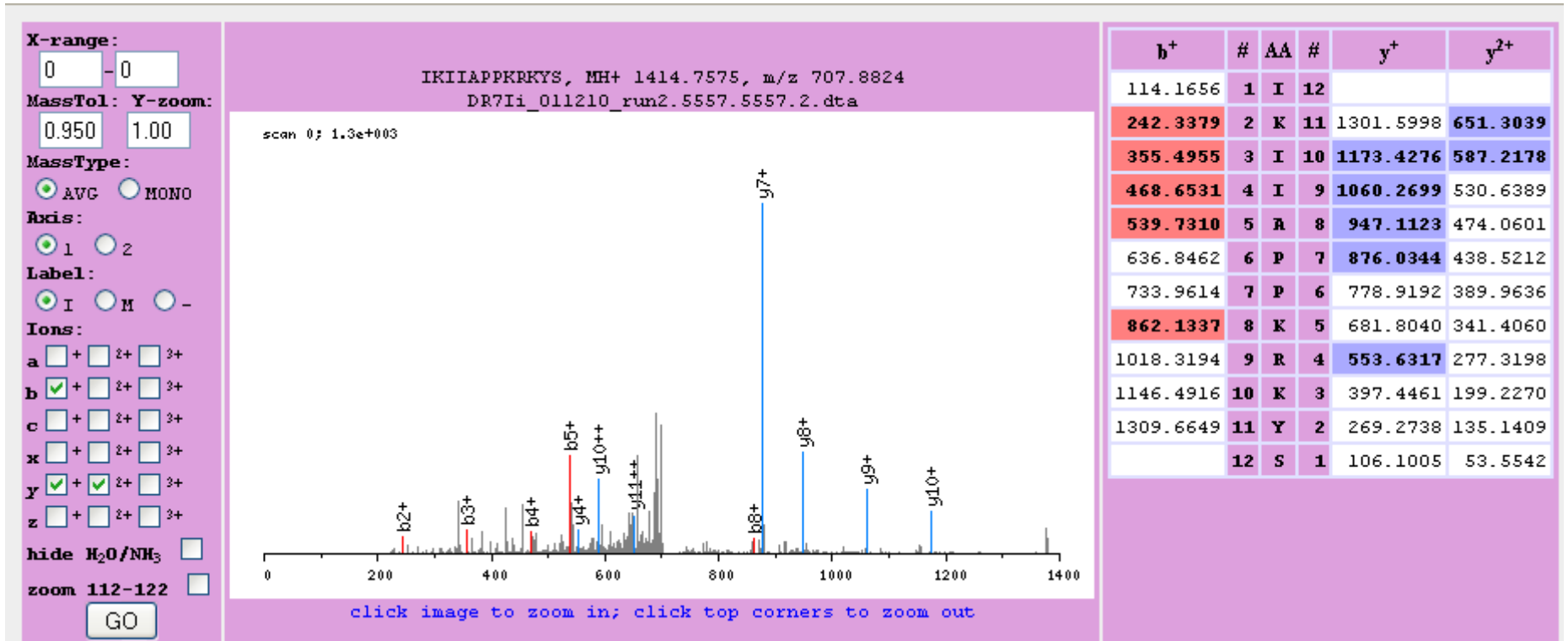
zoom



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
100.1390	1	V	16		
157.1903	2	G	15	1730.9818	865.9949
285.3626	3	K	14	1673.9304	837.4692
398.5202	4	L	13	1545.7582	773.3831
511.6779	5	L	12	1432.6005	716.8042
639.8502	6	K	11	1319.4429	660.2254
696.9015	7	G	10	1191.2706	596.1393
810.0591	8	I	9	1134.2193	567.6136
925.1465	9	D	8	1021.0616	511.0348
1081.3322	10	R	7	905.9742	453.4911
1244.5055	11	Y	6	749.7886	375.3983
1358.6081	12	N	5	586.6153	293.8116
1455.7233	13	P	4	472.5127	236.7603
1584.8373	14	E	3	375.3975	188.2027
1698.9399	15	N	2	246.2835	123.6457
	16	L	1	132.1809	66.5944



# KIKIIAPPKRRKYSV



# TPSALAIENANVLARYASICQQNGIVPIV

X-range:  -

MassTol: Y-zoom:

MassType:  AVG  MOMO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

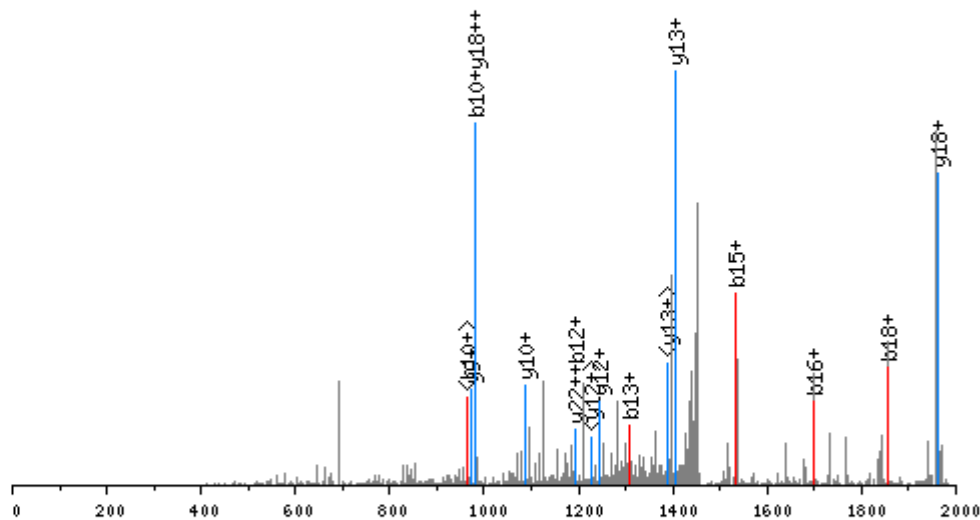
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

PSALAIENANVLARYASICQQNGIVPI, MH+ 2940.3968, m/z 1470.7020  
DR7Ii\_011210\_run2.6798.6798.2.dta

scan 0; 4.9e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
98.1231	1	P	28		
185.2004	2	S	27	2843.2816	1422.1448
256.2783	3	R	26	2756.2043	1378.6061
369.4360	4	L	25	2685.1264	1343.0672
440.5139	5	R	24	2571.9688	1286.4883
553.6715	6	I	23	2500.8909	1250.9494
666.8291	7	L	22	2387.7332	1194.3706
795.9431	8	E	21	2274.5756	1137.7918
910.0458	9	N	20	2145.4616	1073.2348
981.1237	10	R	19	2031.3590	1016.1834
1095.2263	11	N	18	1960.2811	980.6445
1194.3574	12	V	17	1846.1784	923.5932
1307.5150	13	L	16	1747.0474	874.0276
1378.5929	14	R	15	1633.8897	817.4488
1534.7786	15	R	14	1562.8118	781.9099
1697.9518	16	Y	13	1406.6261	703.8170
1769.0297	17	R	12	1243.4529	622.2304
1856.1070	18	S	11	1172.3750	586.6915
1969.2647	19	I	10	1085.2977	543.1528
2072.4076	20	C	9	972.1400	486.5740
2200.5368	21	Q	8	868.9971	435.0025
2328.6660	22	Q	7	740.8679	370.9379
2442.7687	23	N	6	612.7387	306.8733
2499.8200	24	G	5	498.6361	249.8220
2612.9776	25	I	4	441.5847	221.2963
2712.1087	26	V	3	328.4271	164.7175
2809.2239	27	P	2	229.2960	115.1520
	28	I	1	132.1809	66.5944

# YKQPGGITNQFLDSLKHRE

X-range:  -

MassTol:  Y-zoom:

MassType:  AVG  MONO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

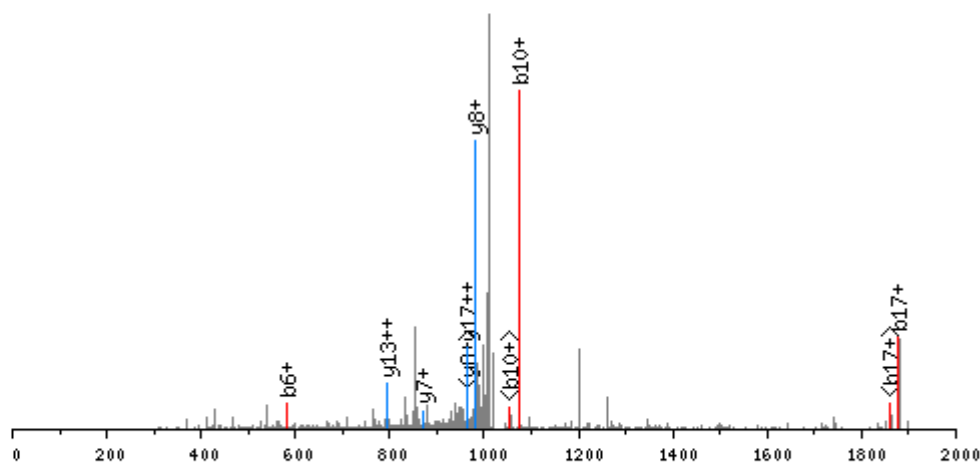
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

KQPGGITNQFLDSLKHRR, MH+ 2053.3446, m/z 1027.1760  
DR7CD80\_012610\_run2.5509.5509.2.dta

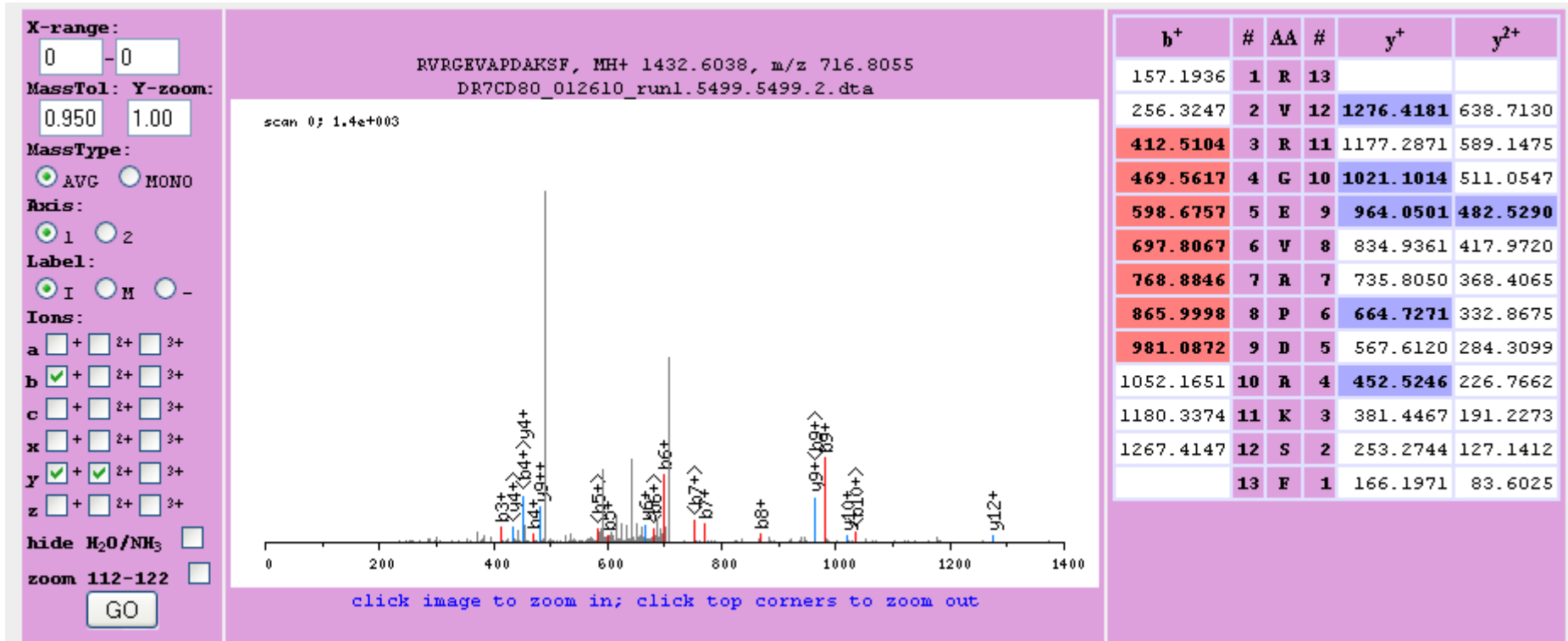
scan 0: 2.9e+003



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
129.1802	1	K	18		
257.3094	2	Q	17	1925.1724	963.0901
354.4246	3	P	16	1797.0431	899.0255
411.4759	4	G	15	1699.9280	850.4679
468.5273	5	G	14	1642.8766	821.9423
581.6849	6	I	13	1585.8253	793.4166
682.7888	7	T	12	1472.6677	736.8378
796.8914	8	N	11	1371.5638	686.2859
925.0206	9	Q	10	1257.4612	629.2345
1072.1945	10	F	9	1129.3319	565.1699
1185.3521	11	L	8	982.1581	491.5830
1298.5098	12	L	7	869.0004	435.0042
1413.5972	13	D	6	755.8428	378.4254
1500.6745	14	S	5	640.7554	320.8817
1613.8321	15	L	4	553.6781	277.3430
1742.0044	16	K	3	440.5205	220.7642
1879.1437	17	H	2	312.3482	156.6781
	18	R	1	175.2089	88.1084

# LRVRGEVAPDAKSFV



# QWLGSSWPGYVRPLPPAAIESP

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

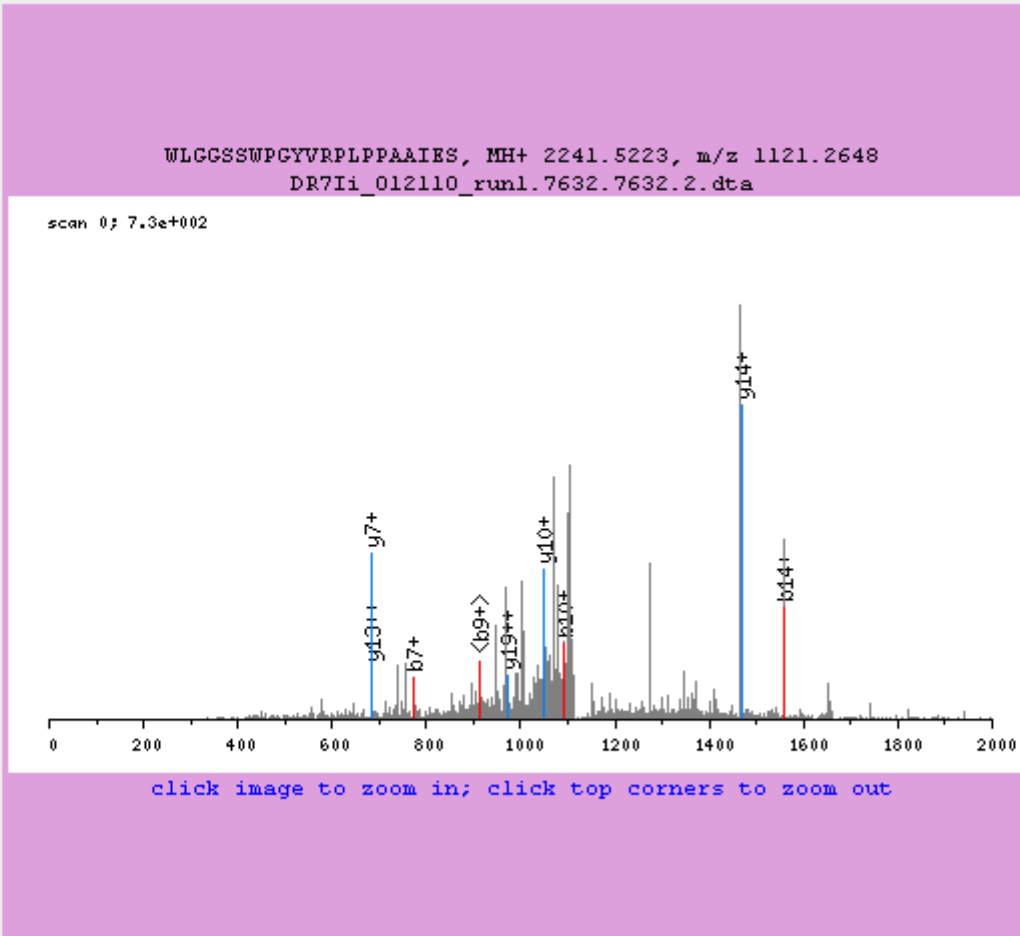
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

**hide H<sub>2</sub>O/NH<sub>3</sub>**

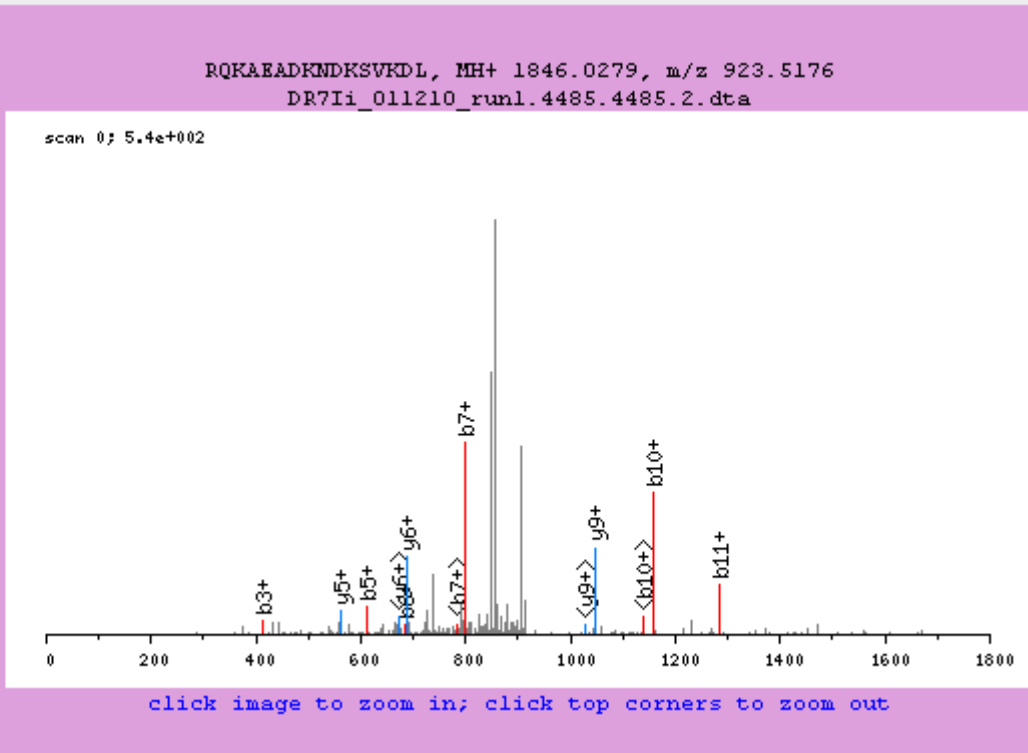
**zoom 112-122**



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
187.2178	1	W	21		
300.3755	2	L	20	2055.3124	1028.1602
357.4268	3	G	19	1942.1548	971.5813
414.4781	4	G	18	1885.1034	943.0557
501.5554	5	S	17	1828.0521	914.5300
588.6327	6	S	16	1740.9748	870.9914
774.8426	7	W	15	1653.8975	827.4527
871.9578	8	P	14	1467.6876	734.3478
929.0091	9	G	13	1370.5724	685.7902
1092.1824	10	Y	12	1313.5211	657.2645
1191.3134	11	V	11	1150.3479	575.6779
1347.4991	12	R	10	1051.2168	526.1124
1444.6143	13	P	9	895.0311	448.0195
1557.7719	14	L	8	797.9159	399.4619
1654.8871	15	P	7	684.7583	342.8831
1752.0023	16	P	6	587.6431	294.3255
1823.0802	17	R	5	490.5279	245.7679
1894.1581	18	R	4	419.4500	210.2290
2007.3157	19	I	3	348.3721	174.6900
2136.4297	20	E	2	235.2145	118.1112
	21	S	1	106.1005	53.5542

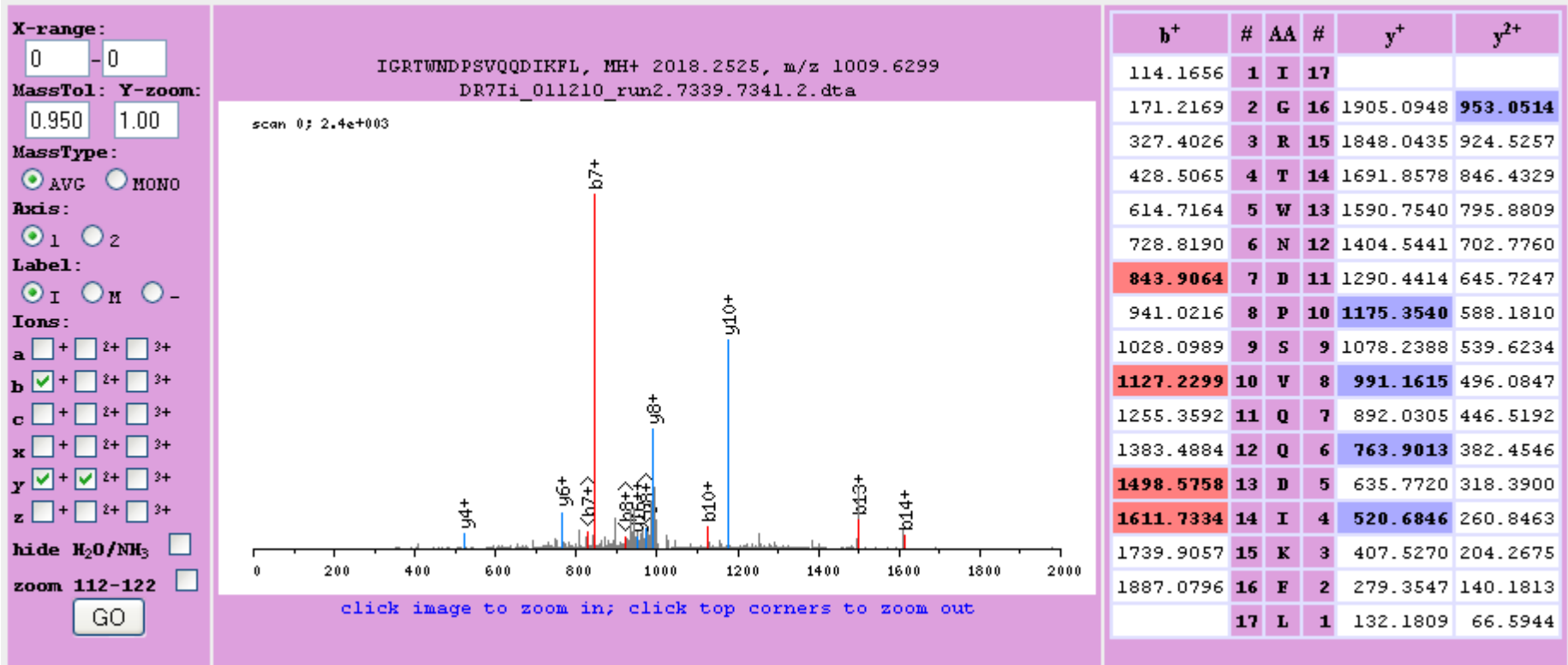
# LRQKAEADKNDKSVKDLV

**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom

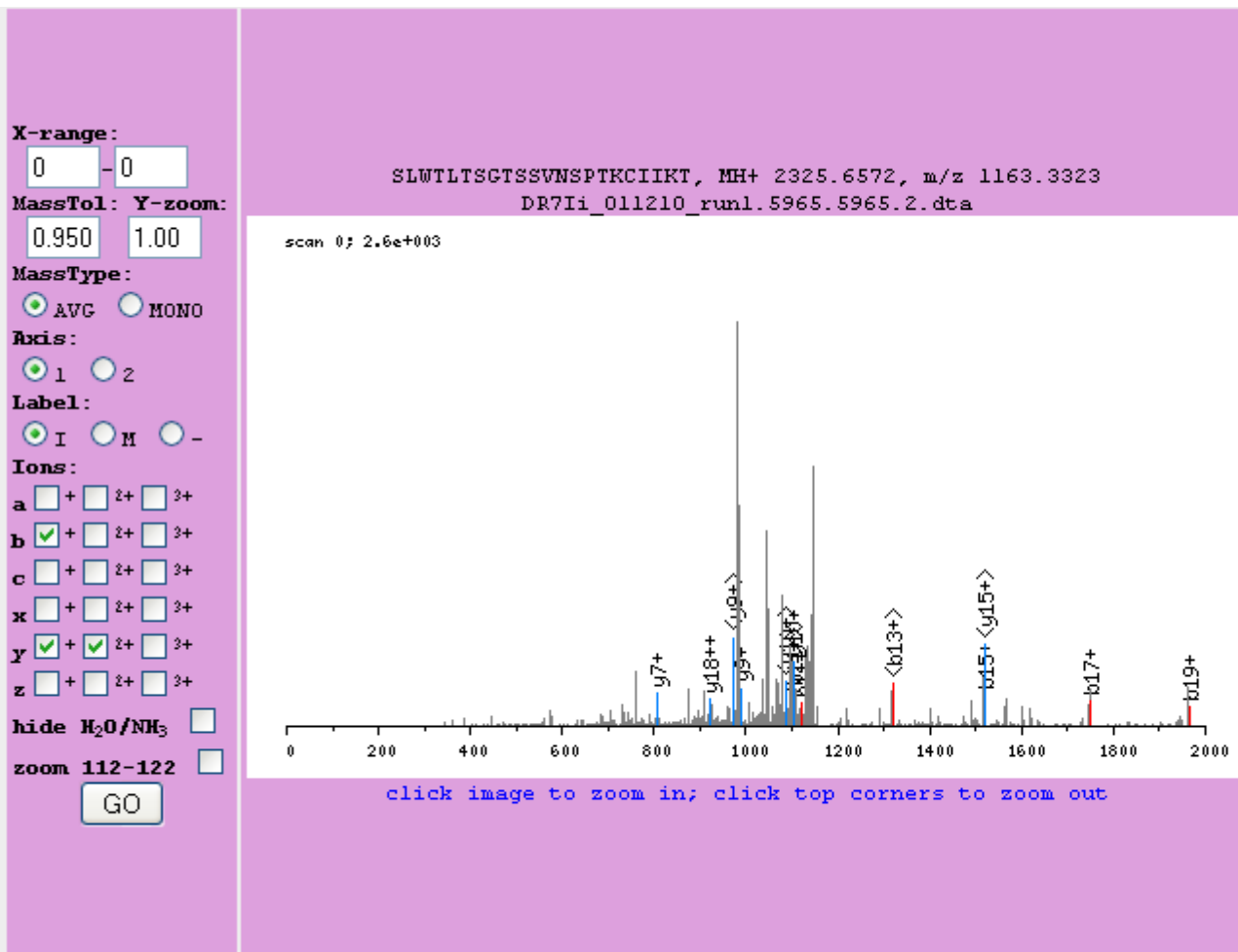


b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
157.1936	1	R	16		
285.3228	2	Q	15	1689.8422	845.4251
413.4951	3	K	14	1561.7130	781.3604
484.5730	4	R	13	1433.5407	717.2743
613.6870	5	E	12	1362.4628	681.7354
684.7649	6	R	11	1233.3488	617.1784
799.8523	7	D	10	1162.2709	581.6394
928.0246	8	K	9	1047.1835	524.0957
1042.1272	9	N	8	919.0112	460.0096
1157.2146	10	D	7	804.9086	402.9583
1285.3869	11	K	6	689.8212	345.4146
1372.4642	12	S	5	561.6489	281.3284
1471.5953	13	V	4	474.5716	237.7898
1599.7675	14	K	3	375.4405	188.2242
1714.8549	15	D	2	247.2683	124.1381
	16	L	1	132.1809	66.5944

# LIGRTWNDPSVQQDIKFLP



# VSLWTLTSGTSSVNSPTKCIKTV

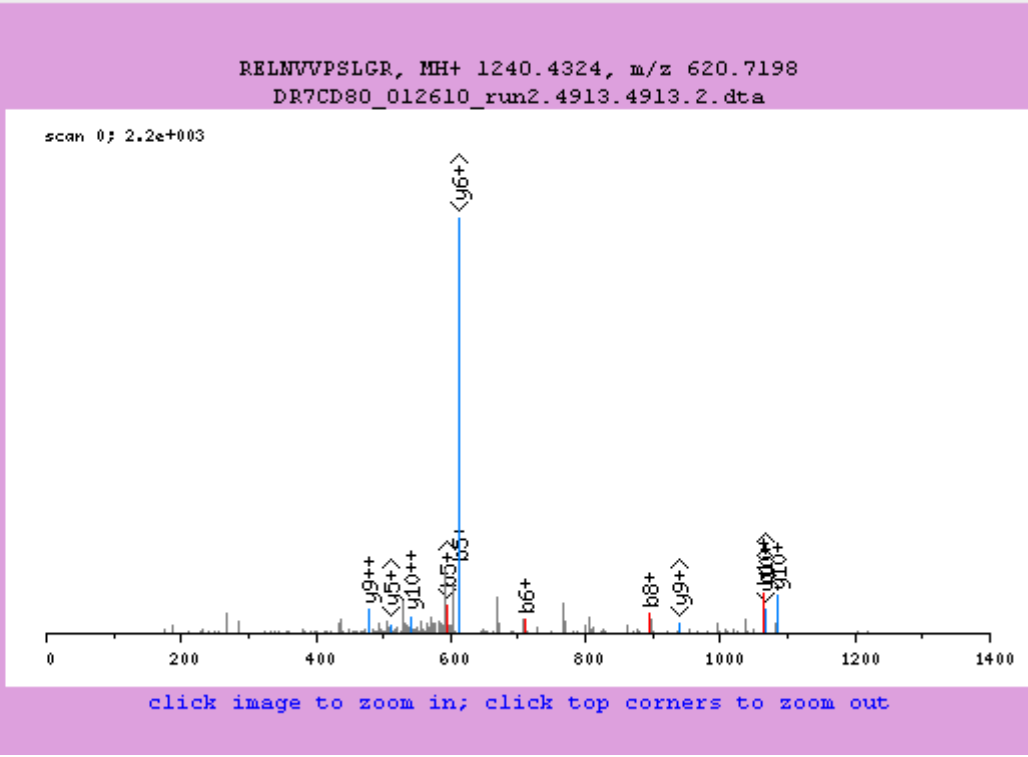


b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
88.0852	1	S	22		
201.2429	2	L	21	2238.5799	1119.7939
387.4528	3	W	20	2125.4223	1063.2151
488.5567	4	T	19	1939.2124	970.1102
601.7143	5	L	18	1838.1085	<b>919.5582</b>
702.8182	6	T	17	1724.9509	862.9794
789.8955	7	S	16	1623.8470	812.4275
846.9468	8	G	15	1536.7697	768.8888
948.0507	9	T	14	1479.7184	740.3632
1035.1280	10	S	13	1378.6145	689.8112
<b>1122.2053</b>	11	S	12	1291.5372	646.2726
1221.3363	12	V	11	1204.4599	602.7339
1335.4390	13	N	10	<b>1105.3288</b>	553.1684
1422.5163	14	S	9	<b>991.2262</b>	496.1171
<b>1519.6315</b>	15	P	8	904.1489	452.5784
1620.7353	16	T	7	<b>807.0337</b>	404.0208
<b>1748.9076</b>	17	K	6	705.9298	353.4689
1852.0505	18	C	5	577.7576	289.3828
<b>1965.2082</b>	19	I	4	474.6147	237.8113
2078.3658	20	I	3	361.4570	181.2325
2206.5381	21	K	2	248.2994	124.6537
	22	T	1	120.1271	60.5675



# GRELVVPSLGRQ

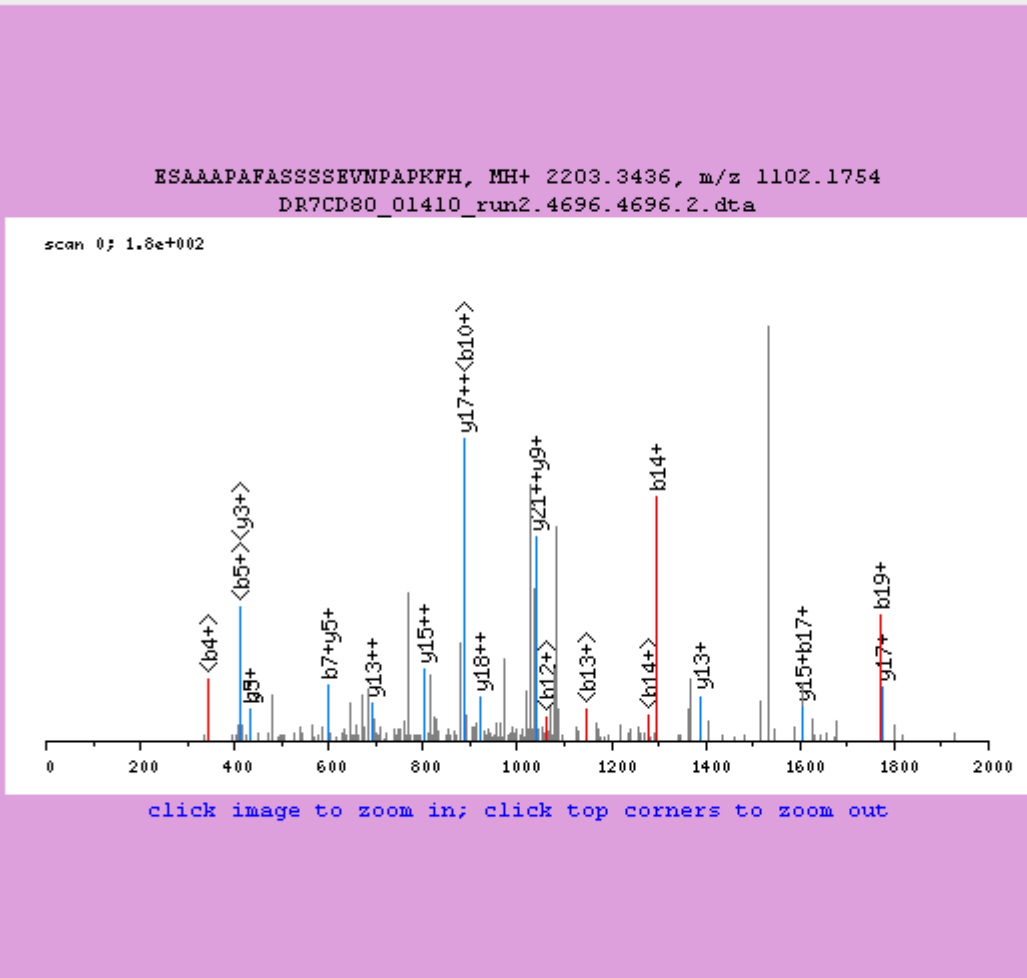
**X-range:**  -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
157.1936	1	R	11		
286.3076	2	E	10	1084.2467	542.6273
399.4652	3	L	9	955.1327	478.0703
513.5679	4	N	8	841.9751	421.4915
612.6989	5	V	7	727.8725	364.4402
711.8300	6	V	6	628.7414	314.8747
808.9452	7	P	5	529.6103	265.3091
896.0225	8	S	4	432.4952	216.7516
1009.1801	9	L	3	345.4179	173.2129
1066.2314	10	G	2	232.2602	116.6341
	11	R	1	175.2089	88.1084

# SESAAAPAFASSSSEVNPAPKFW

**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
130.1219	1	E	22		
217.1992	2	S	21	2074.2296	<b>1037.6188</b>
288.2771	3	R	20	1987.1523	994.0801
359.3550	4	R	19	1916.0744	958.5412
<b>430.4329</b>	5	R	18	1844.9965	<b>923.0022</b>
527.5481	6	P	17	<b>1773.9186</b>	<b>887.4633</b>
<b>598.6260</b>	7	R	16	1676.8034	838.9057
745.7999	8	F	15	<b>1605.7255</b>	<b>803.3667</b>
816.8778	9	R	14	1458.5517	729.7798
903.9551	10	S	13	<b>1387.4738</b>	<b>694.2409</b>
991.0324	11	S	12	1300.3965	650.7022
1078.1097	12	S	11	1213.3192	607.1636
1165.1870	13	S	10	1126.2419	563.6249
<b>1294.3009</b>	14	E	9	<b>1039.1646</b>	520.0863
1393.4320	15	V	8	910.0506	455.5293
1507.5346	16	N	7	810.9195	405.9637
<b>1604.6498</b>	17	P	6	696.8169	348.9124
1675.7277	18	R	5	<b>599.7017</b>	300.3548
<b>1772.8429</b>	19	P	4	528.6238	264.8159
1901.0152	20	K	3	<b>431.5086</b>	216.2583
2048.1890	21	F	2	303.3364	152.1721
	22	H	1	156.1625	78.5852

# SEPPKLIPLRT

X-range:  -

MassTol:  Y-zoom:

MassType:  
 AVG  MONO

Axis:  
 1  2

Label:  
 I  M  -

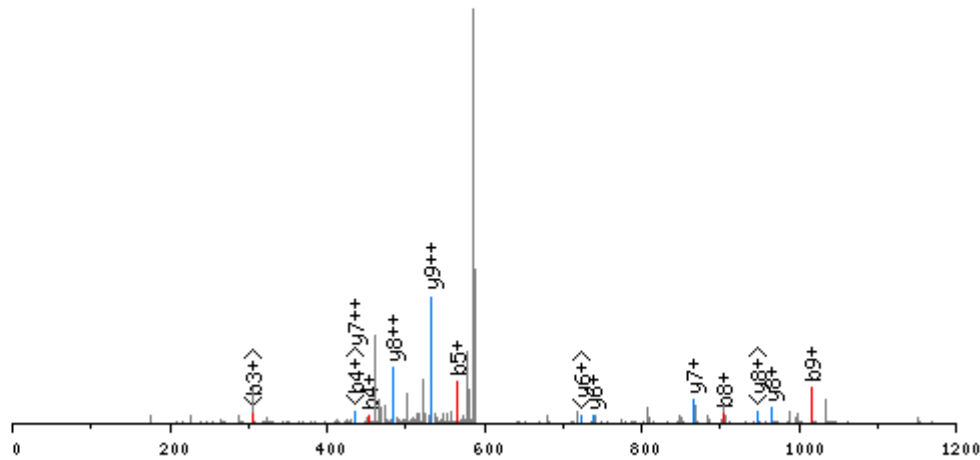
Ions:  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom

EPPKLIPLR, MH+ 1191.4859, m/z 596.2466  
 DR7Ii\_011210\_run1.4075.4075.2.dta

scan 0; 1.0e+003



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
130.1219	1	E	10		
227.2371	2	P	9	1062.3719	531.6899
324.3523	3	P	8	965.2567	483.1323
452.5246	4	K	7	868.1416	434.5747
565.6822	5	L	6	739.9693	370.4886
693.8545	6	K	5	626.8116	313.9098
807.0121	7	I	4	498.6394	249.8237
904.1273	8	P	3	385.4817	193.2448
1017.2849	9	L	2	288.3665	144.6872
	10	R	1	175.2089	88.1084

# FAGGGDLPPAPLSPAGPAAYSPPGP

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

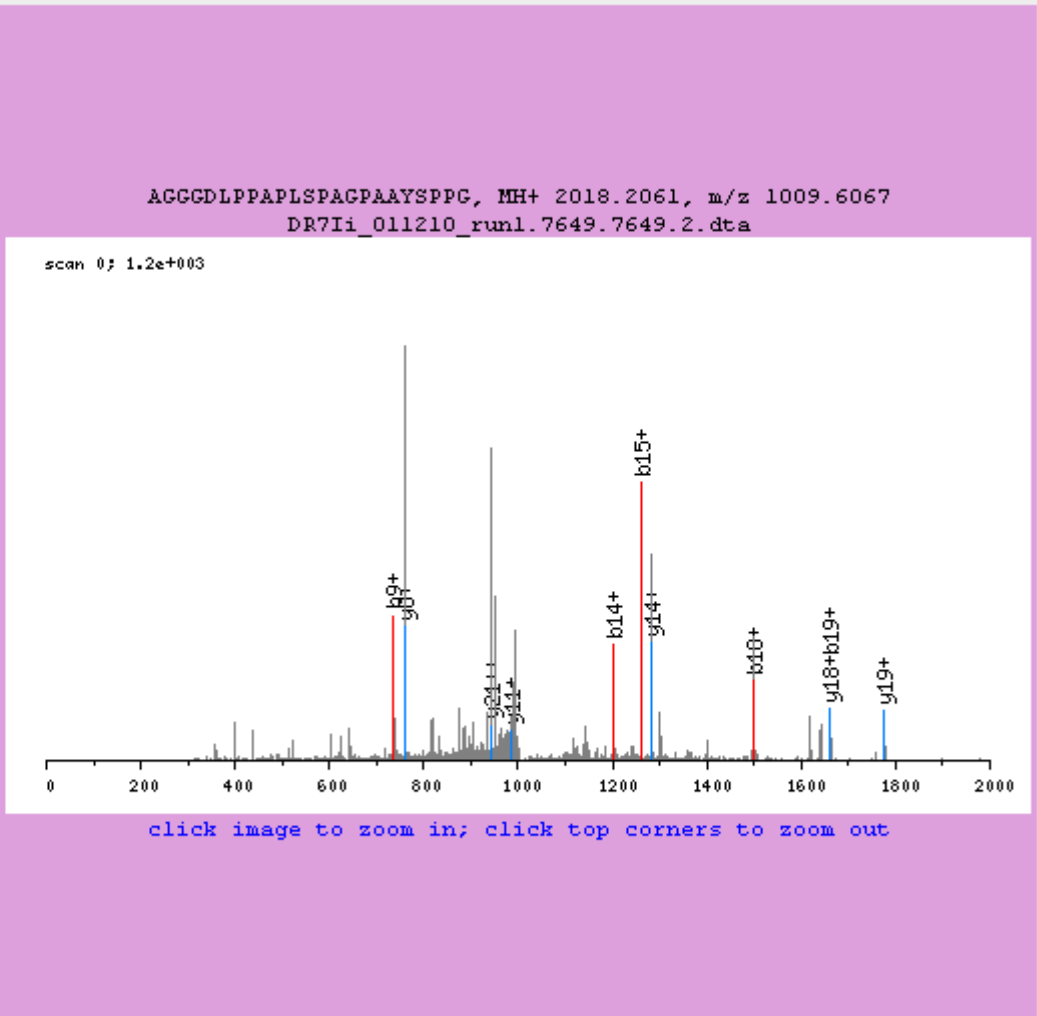
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
72.0858	1	R	23		
129.1372	2	G	22	1947.1282	974.0681
186.1885	3	G	21	1890.0769	945.5424
243.2398	4	G	20	1833.0256	917.0168
358.3272	5	D	19	1775.9743	888.4911
471.4848	6	L	18	1660.8869	830.9474
568.6000	7	P	17	1547.7292	774.3686
665.7152	8	P	16	1450.6140	725.8110
736.7931	9	R	15	1353.4989	677.2534
833.9083	10	P	14	1282.4210	641.7145
947.0659	11	L	13	1185.3058	593.1569
1034.1432	12	S	12	1072.1481	536.5780
1131.2584	13	P	11	985.0708	493.0394
1202.3363	14	R	10	887.9557	444.4818
1259.3876	15	G	9	816.8778	408.9429
1356.5028	16	P	8	759.8264	380.4172
1427.5807	17	R	7	662.7113	331.8596
1498.6586	18	R	6	591.6334	296.3207
1661.8319	19	Y	5	520.5555	260.7817
1748.9092	20	S	4	357.3822	179.1951
1846.0243	21	P	3	270.3049	135.6564
1943.1395	22	P	2	173.1897	87.0988
	23	G	1	76.0745	38.5412

# GVLAQIKSQKVQDILAFYL

X-range:  -

MassTol:  Y-zoom:

MassType:  AVG  MONO

Axis:  1  2

Label:  I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

Y  +  2+  3+

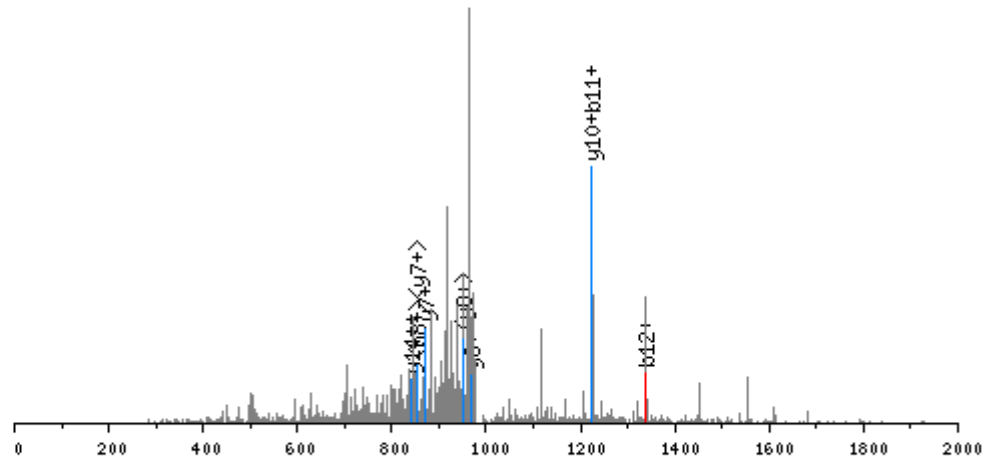
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

VLAQIKSQKVQDILAFY, MH+ 1965.3157, m/z 983.1615  
DR7Ii\_012110\_run1.6637.6637.2.dta

scan 0; 5.7e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
100.1390	1	V	17		
213.2966	2	L	16	1866.1847	933.5963
284.3745	3	R	15	1753.0270	877.0175
412.5038	4	Q	14	1681.9491	841.4785
525.6614	5	I	13	1553.8199	777.4139
653.8337	6	K	12	1440.6623	720.8351
740.9110	7	S	11	1312.4900	656.7490
869.0402	8	Q	10	1225.4127	613.2103
997.2125	9	K	9	1097.2835	549.1457
1096.3435	10	V	8	969.1112	485.0596
1224.4728	11	Q	7	869.9801	435.4940
1339.5602	12	D	6	741.8509	371.4294
1452.7178	13	I	5	626.7635	313.8857
1565.8754	14	L	4	513.6059	257.3069
1636.9533	15	R	3	400.4482	200.7281
1784.1272	16	F	2	329.3703	165.1891
	17	Y	1	182.1965	91.6022

# SYELPDGQVITIGNERFR

**X-range:**  
 -

**MassTol:**  **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

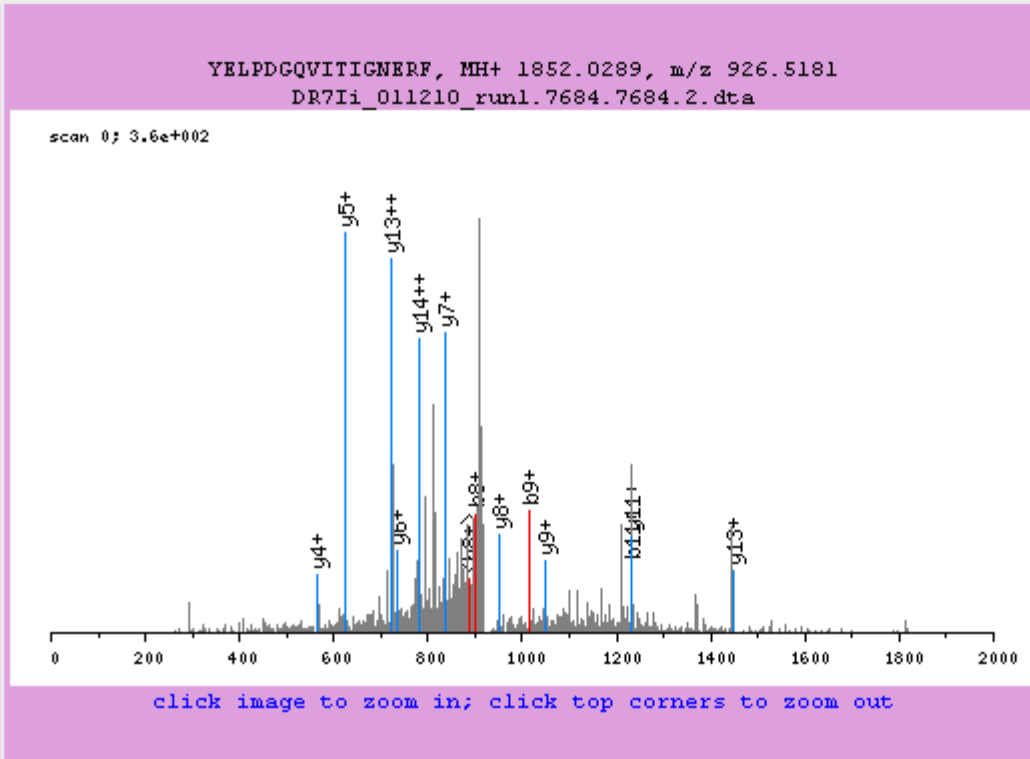
x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
164.1812	1	Y	16		
293.2952	2	E	15	1688.8557	844.9318
406.4528	3	L	14	1559.7417	<b>780.3748</b>
503.5680	4	P	13	<b>1446.5840</b>	<b>723.7960</b>
618.6554	5	D	12	1349.4689	675.2384
675.7067	6	G	11	<b>1234.3815</b>	617.6947
803.8359	7	Q	10	1177.3301	589.1690
<b>902.9670</b>	8	V	9	<b>1049.2009</b>	525.1044
<b>1016.1246</b>	9	I	8	<b>950.0699</b>	475.5389
1117.2285	10	T	7	<b>836.9122</b>	418.9601
<b>1230.3862</b>	11	I	6	<b>735.8083</b>	368.4081
1287.4375	12	G	5	<b>622.6507</b>	311.8293
1401.5401	13	N	4	<b>565.5994</b>	283.3037
1530.6541	14	E	3	451.4967	226.2523
1686.8398	15	R	2	322.3828	161.6953
	16	F	1	166.1971	83.6025

# LALYEDGALDSLQLLSSSSSLPGLG

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Axis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

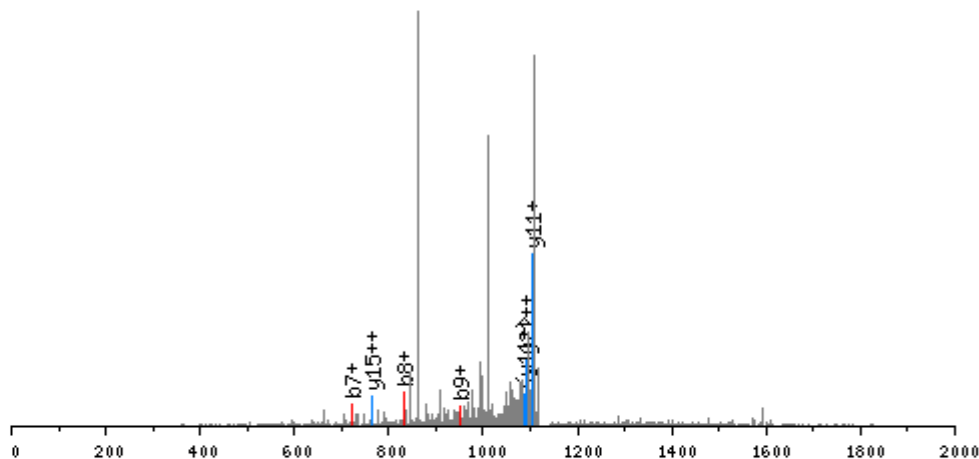
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

ALYEDGALDSLQLLSSSSSLPGL, MH+ 2250.4781, m/z 1125.7427  
DR7Ii\_011210\_run2.6919.6919.2.dta

scan 0; 1.7e+003

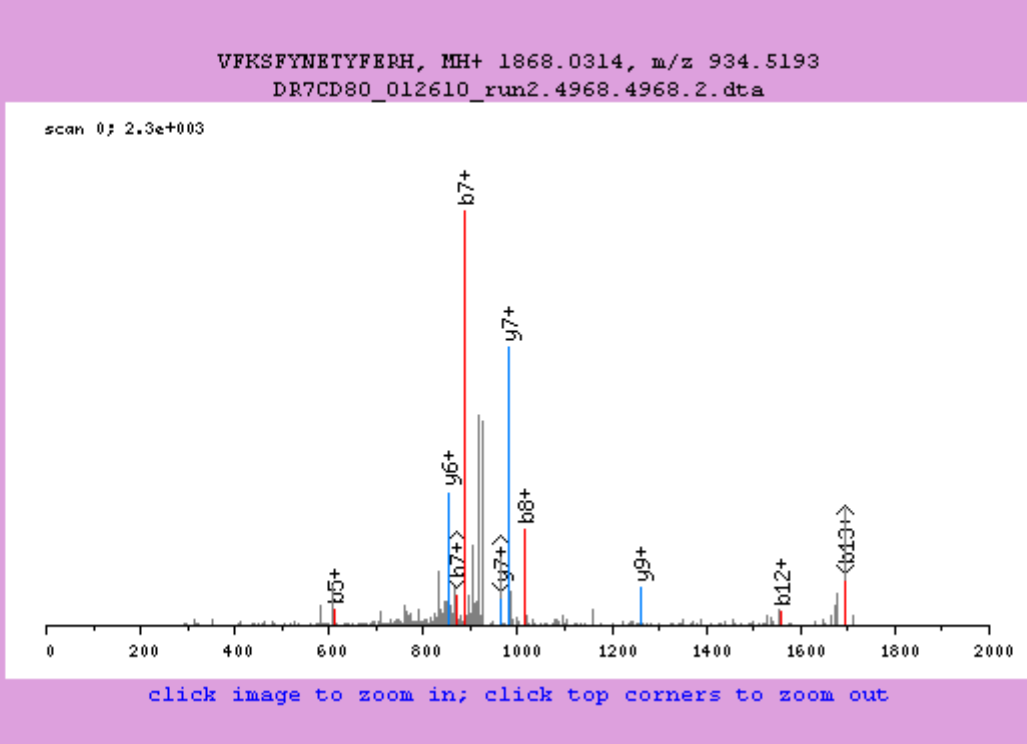


click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
72.0858	1	R	22		
185.2435	2	L	21	2179.4002	1090.2041
348.4167	3	Y	20	2066.2425	1033.6252
477.5307	4	E	19	1903.0693	952.0386
592.6181	5	D	18	1773.9553	887.4816
649.6694	6	G	17	1658.8679	829.9379
720.7473	7	R	16	1601.8166	801.4123
833.9050	8	L	15	1530.7387	765.8733
948.9924	9	D	14	1417.5810	709.2945
1036.0697	10	S	13	1302.4936	651.7508
1149.2273	11	L	12	1215.4163	608.2121
1277.3565	12	Q	11	1102.2587	551.6333
1390.5142	13	L	10	974.1295	487.5687
1503.6718	14	L	9	860.9718	430.9899
1590.7491	15	S	8	747.8142	374.4111
1677.8264	16	S	7	660.7369	330.8724
1764.9037	17	S	6	573.6596	287.3338
1851.9810	18	S	5	486.5823	243.7951
1965.1387	19	L	4	399.5050	200.2565
2062.2538	20	P	3	286.3474	143.6776
2119.3052	21	G	2	189.2322	95.1201
	22	L	1	132.1809	66.5944

# QVFKSFYNETYFERHA

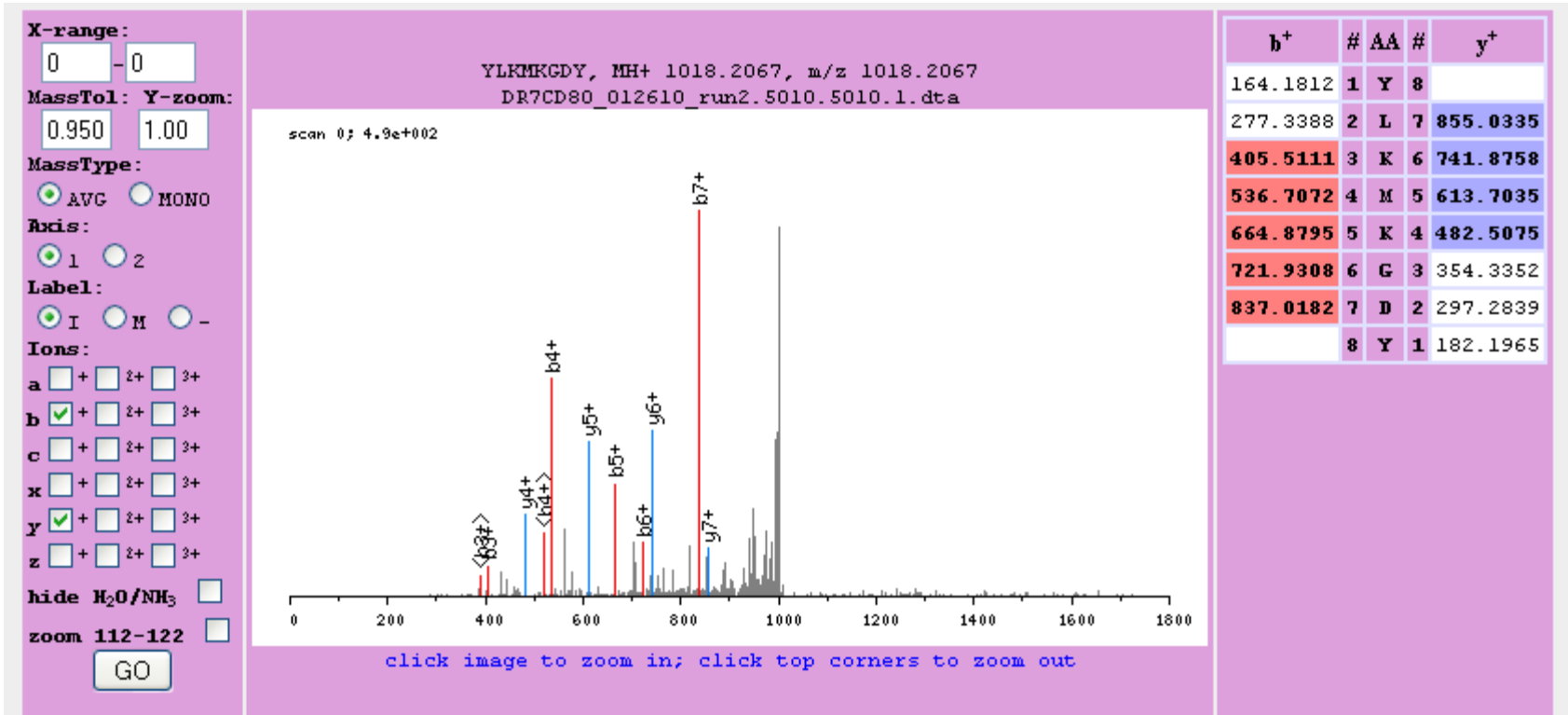
**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Axis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
100.1390	1	V	14		
247.3129	2	F	13	1768.9003	884.9541
375.4851	3	K	12	1621.7265	811.3672
462.5624	4	S	11	1493.5542	747.2811
609.7363	5	F	10	1406.4769	703.7424
772.9096	6	Y	9	1259.3030	630.1555
887.0122	7	N	8	1096.1298	548.5689
1016.1262	8	E	7	982.0271	491.5175
1117.2301	9	T	6	852.9132	426.9606
1280.4033	10	Y	5	751.8093	376.4086
1427.5772	11	F	4	588.6360	294.8220
1556.6912	12	E	3	441.4622	221.2351
1712.8768	13	R	2	312.3482	156.6781
	14	H	1	156.1625	78.5852



# FYLMKGDYY



# FTCRSMNEAIPSGKETSIELDVHH

X-range:

0 - 0

MassTol: Y-zoom:

0.950 1.00

MassType:

AVG  MONO

Axis:

1  2

Label:

I  M  -

Ions:

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

z  +  2+  3+

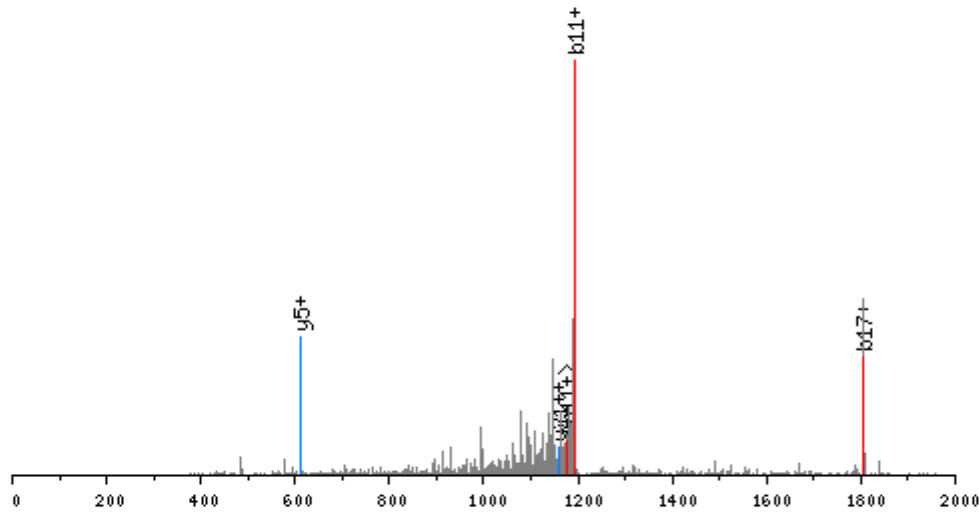
hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

GO

TCRSMNEAIPSGKETSIELDVH, MH+ 2418.6794, m/z 1209.8434  
DR7Ii\_012110\_run2.6608.6608.2.dta

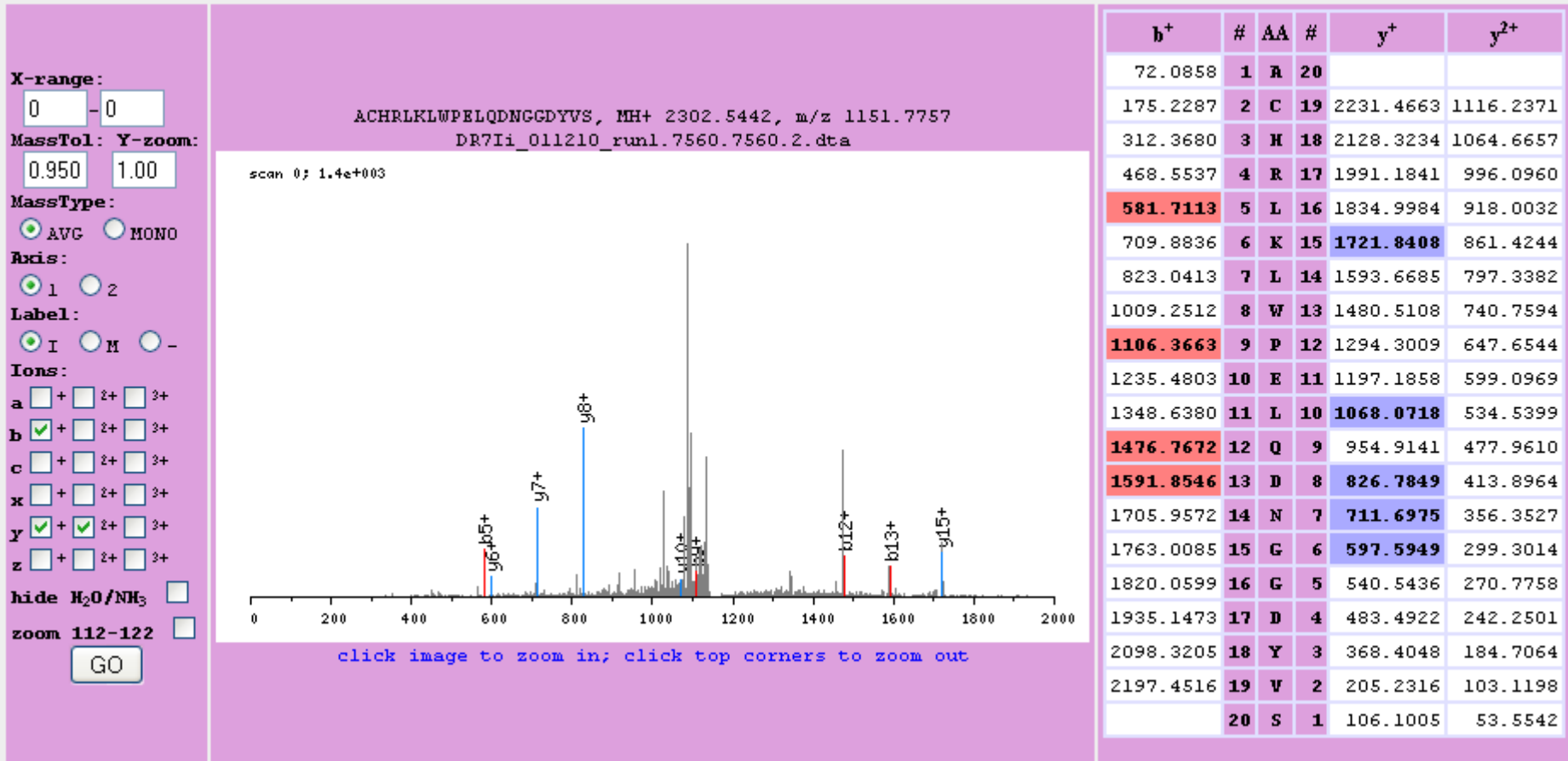
scan 0: 7.3e+002



click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
102.1118	1	T	22		
205.2547	2	C	21	2317.5756	1159.2917
361.4404	3	R	20	2214.4327	1107.7203
448.5177	4	S	19	2058.2470	1029.6275
579.7138	5	M	18	1971.1697	986.0888
693.8164	6	N	17	1839.9736	920.4908
822.9304	7	E	16	1725.8710	863.4395
894.0083	8	A	15	1596.7570	798.8825
1007.1659	9	I	14	1525.6791	763.3435
1104.2811	10	P	13	1412.5215	706.7647
1191.3584	11	S	12	1315.4063	658.2071
1248.4097	12	G	11	1228.3290	614.6685
1376.5820	13	K	10	1171.2777	586.1428
1505.6960	14	E	9	1043.1054	522.0567
1606.7999	15	T	8	913.9914	457.4997
1693.8772	16	S	7	812.8875	406.9477
1807.0348	17	I	6	725.8102	363.4091
1936.1488	18	E	5	612.6526	306.8303
2049.3064	19	L	4	483.5386	242.2733
2164.3938	20	D	3	370.3810	185.6944
2263.5249	21	V	2	255.2936	128.1507
	22	H	1	156.1625	78.5852

# AACHRLKLWPELQDNGGDYVSA



# KSIRDTPAKNAQKS

**X-range:**  
 -

**MassTol:** **Y-zoom:**

**MassType:**  
 AVG  MONO

**Axis:**  
 1  2

**Label:**  
 I  M  -

**Ions:**

a  +  2+  3+

b  +  2+  3+

c  +  2+  3+

x  +  2+  3+

y  +  2+  3+

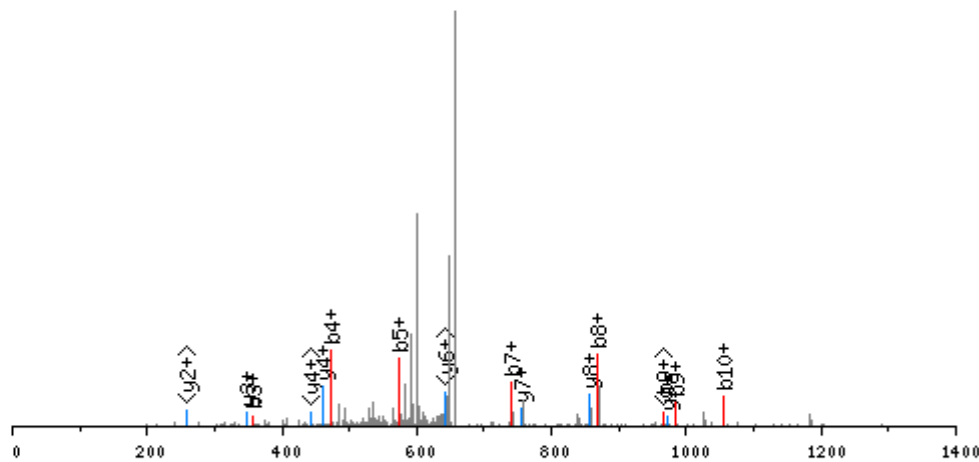
z  +  2+  3+

hide H<sub>2</sub>O/NH<sub>3</sub>

zoom 112-122

SIRDTPAKNAQK, MH+ 1329.4825, m/z 665.2449  
 DR7CD80\_012610\_run1.4231.4231.2.dta

scan 0; 8.8e+002

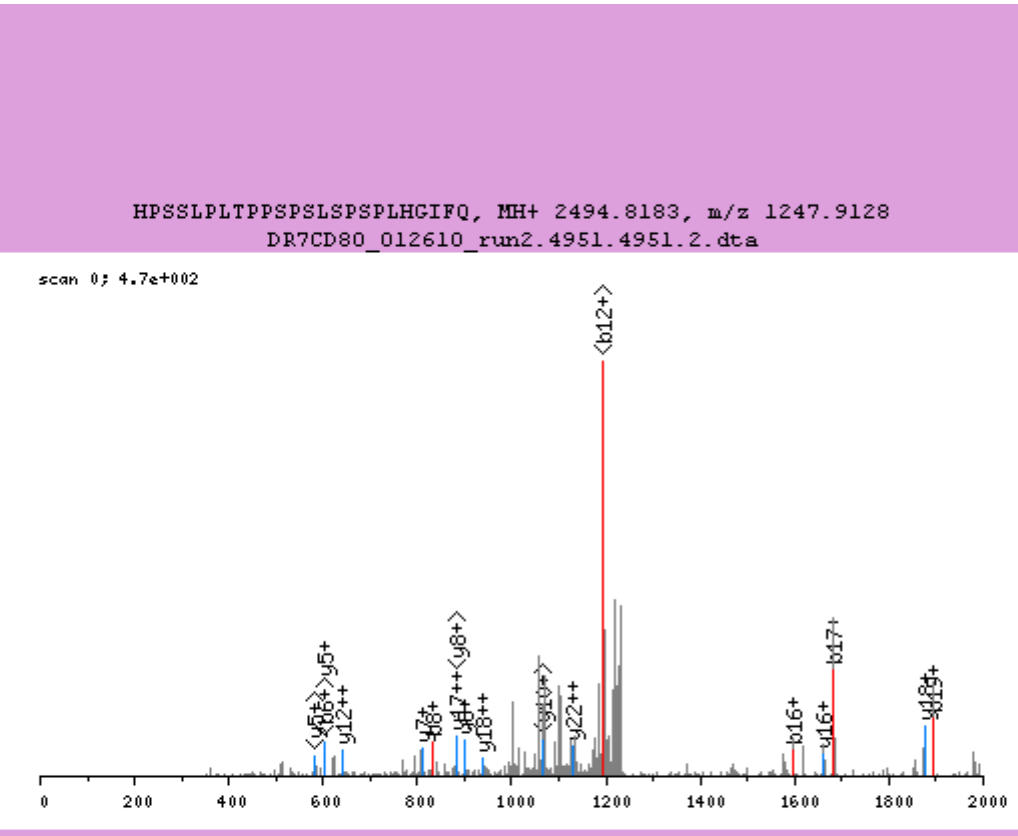


click image to zoom in; click top corners to zoom out

b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
88.0852	1	S	12		
201.2429	2	I	11	1242.4052	621.7066
357.4286	3	R	10	1129.2476	565.1278
472.5160	4	D	9	973.0619	487.0349
573.6198	5	T	8	857.9745	429.4912
670.7350	6	P	7	756.8706	378.9393
741.8129	7	R	6	659.7554	330.3817
869.9852	8	K	5	588.6775	294.8427
984.0878	9	N	4	460.5053	230.7566
1055.1657	10	R	3	346.4026	173.7053
1183.2950	11	Q	2	275.3247	138.1663
	12	K	1	147.1955	74.1017

# LHPSSLPLTPPSPSLSPSPLHGIFQV

**X-range:**  
 -   
**MassTol:**  **Y-zoom:**   
**MassType:**  
 AVG  MONO  
**Basis:**  
 1  2  
**Label:**  
 I  M  -  
**Ions:**  
a  +  2+  3+  
b  +  2+  3+  
c  +  2+  3+  
x  +  2+  3+  
y  +  2+  3+  
z  +  2+  3+  
hide H<sub>2</sub>O/NH<sub>3</sub>   
zoom 112-122



b <sup>+</sup>	#	AA	#	y <sup>+</sup>	y <sup>2+</sup>
138.1472	1	H	24		
235.2624	2	P	23	2357.6790	1179.3435
322.3397	3	S	22	2260.5639	<b>1130.7859</b>
409.4170	4	S	21	2173.4866	1087.2472
522.5746	5	L	20	2086.4093	1043.7086
619.6898	6	P	19	1973.2516	987.1298
732.8475	7	L	18	<b>1876.1364</b>	<b>938.5722</b>
<b>833.9513</b>	8	T	17	1762.9788	<b>881.9934</b>
931.0665	9	P	16	<b>1661.8749</b>	831.4414
1028.1817	10	P	15	1564.7597	782.8838
1115.2590	11	S	14	1467.6446	734.3262
1212.3742	12	P	13	1380.5673	690.7876
1299.4515	13	S	12	1283.4521	<b>642.2300</b>
1412.6091	14	L	11	1196.3748	598.6914
1499.6864	15	S	10	1083.2171	542.1125
<b>1596.8016</b>	16	P	9	996.1398	498.5739
<b>1683.8789</b>	17	S	8	<b>899.0247</b>	450.0163
1780.9941	18	P	7	<b>811.9474</b>	406.4776
<b>1894.1517</b>	19	L	6	714.8322	357.9201
2031.2910	20	H	5	<b>601.6745</b>	301.3412
2088.3423	21	G	4	464.5353	232.7716
2201.5000	22	I	3	407.4839	204.2459
2348.6738	23	F	2	294.3263	147.6671
	24	Q	1	147.1524	74.0802