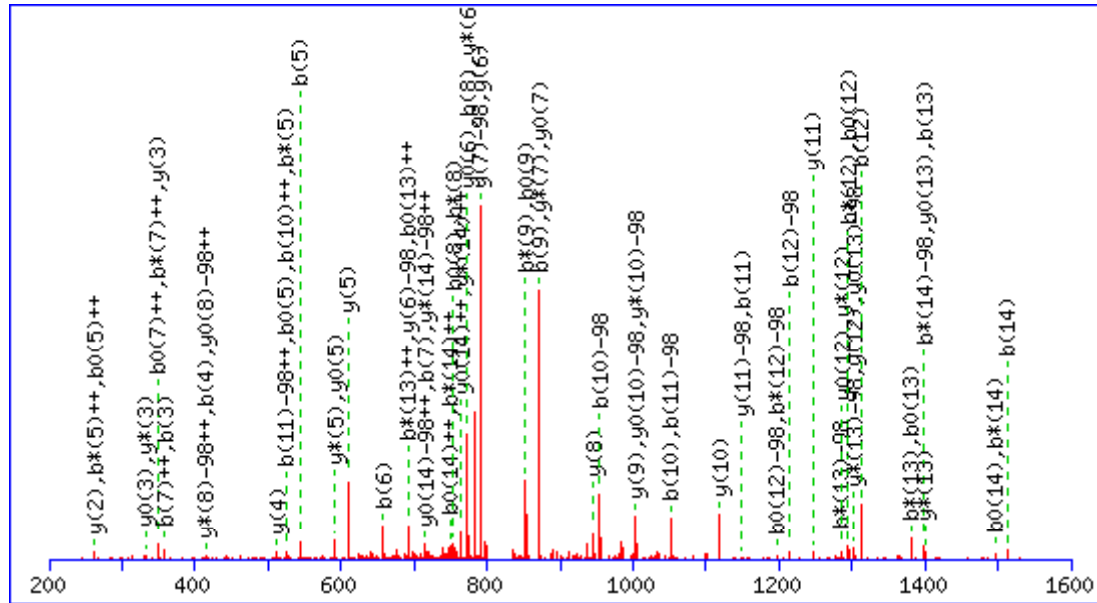
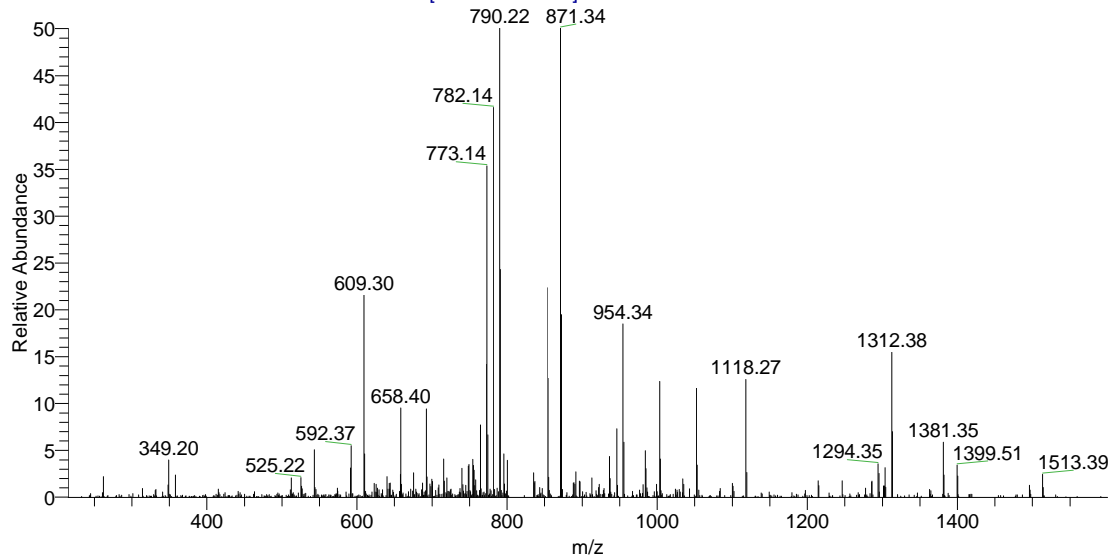


(E)IEDGQDGGVpTPYSNE(S)– Pol II RPB 1 – Figure 5a in article
V8 – LTQ (CID)

Mascot Score: 106

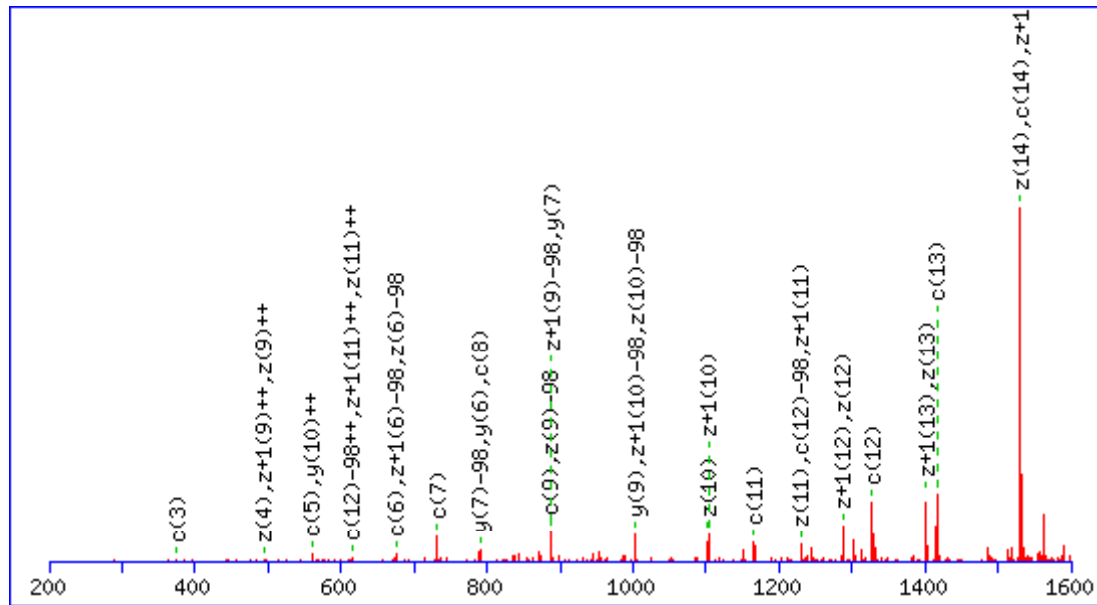


070403_sm4015_08 #7034 RT: 42.82 AV: 1 NL: 1.70E4
T: ITMS + c NSI d w Full ms2 831.08@cid35.00 [215.00-2000.00]

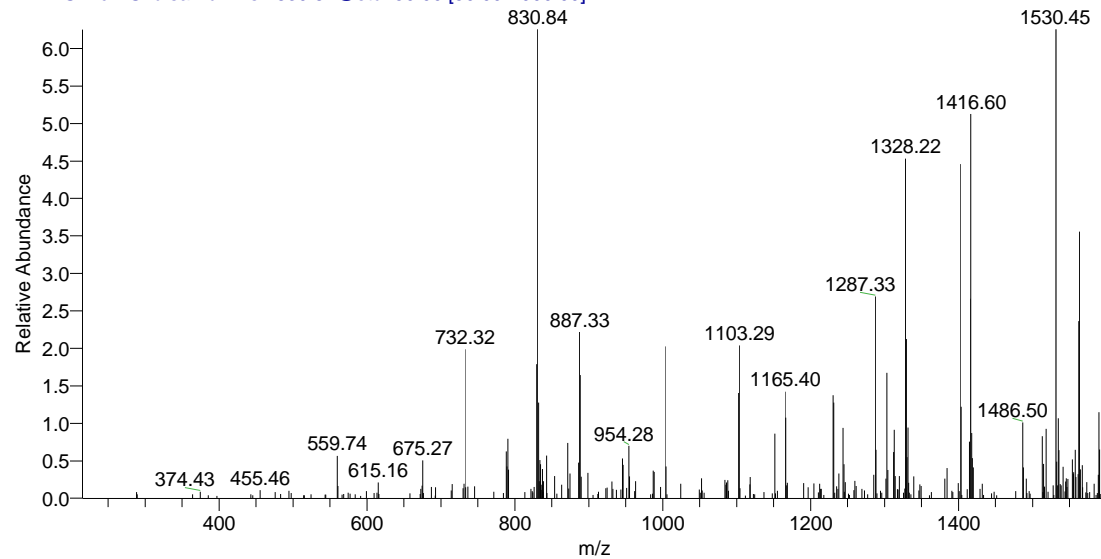


(E)IEDGQDGGVpTPYSNE(S)– Pol II RPB 1 – Figure 5b in article
V8 – LTQ (ETD)

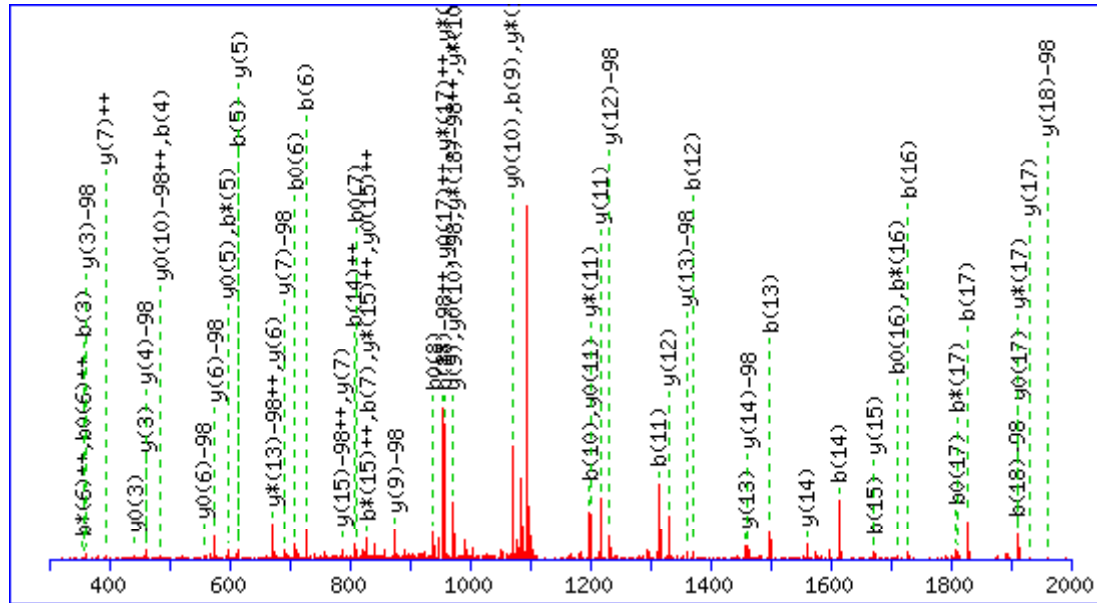
Mascot Score: 79



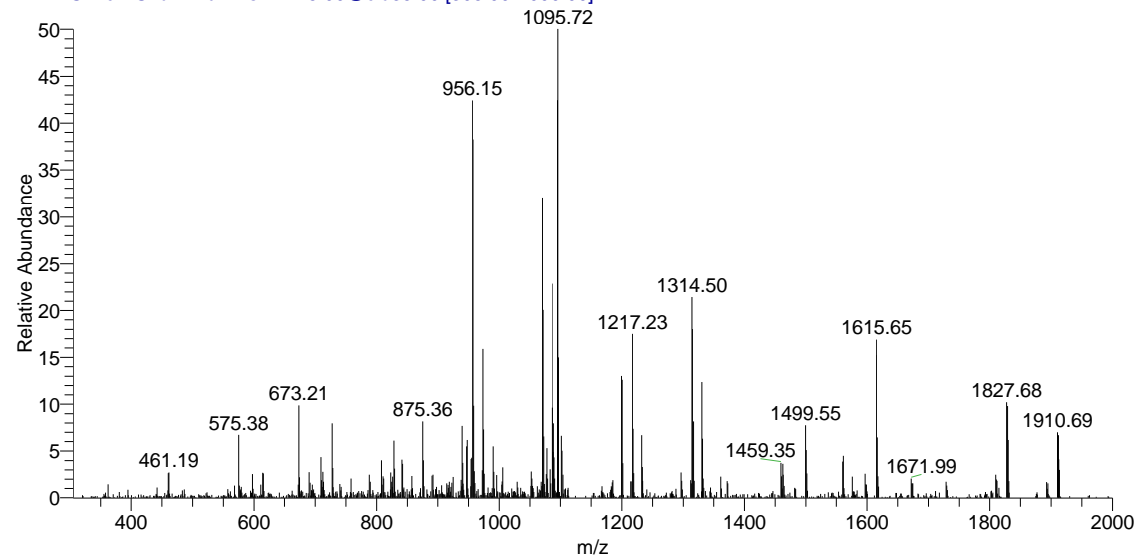
070403_sm4015_08 #7110 RT: 43.34 AV: 1 NL: 1.13E4
T: ITMS + c NSI d sa Full ms2 830.82@etd150.00 [50.00-2000.00]



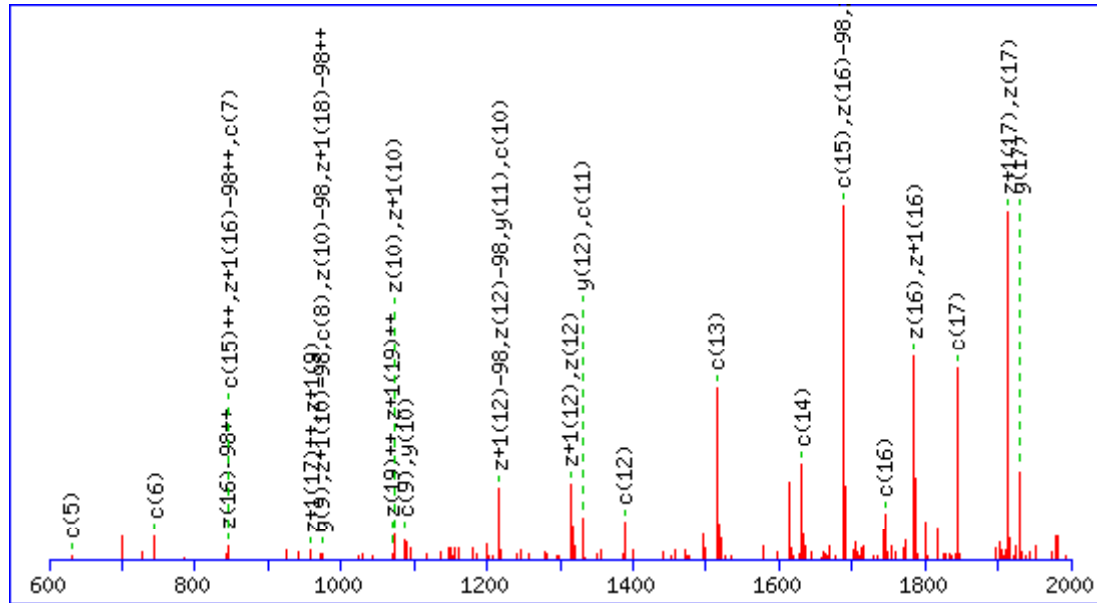
(Y)MPEQKITEIEDGQDGGVpTPY(S) – Pol II RPB 1
Chymotrypsin – LTQ-FT (CID)
Mascot Score: 110



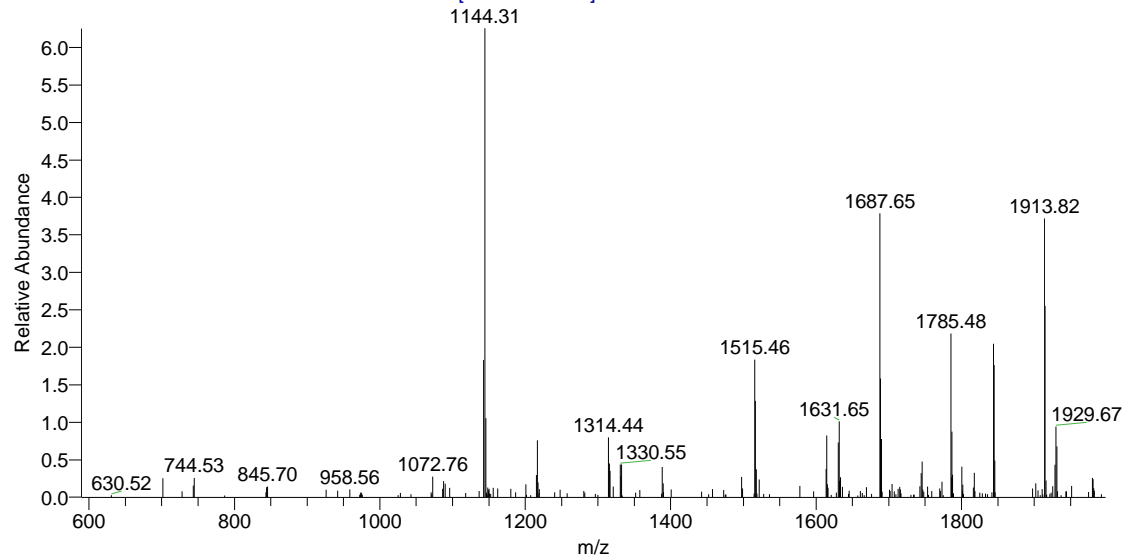
070404_sm4015_09 #7005 RT: 64.10 AV: 1 NL: 2.03E4
 T: ITMS + c NSI d w Full ms2 1145.00@cid35.00 [305.00-2000.00]



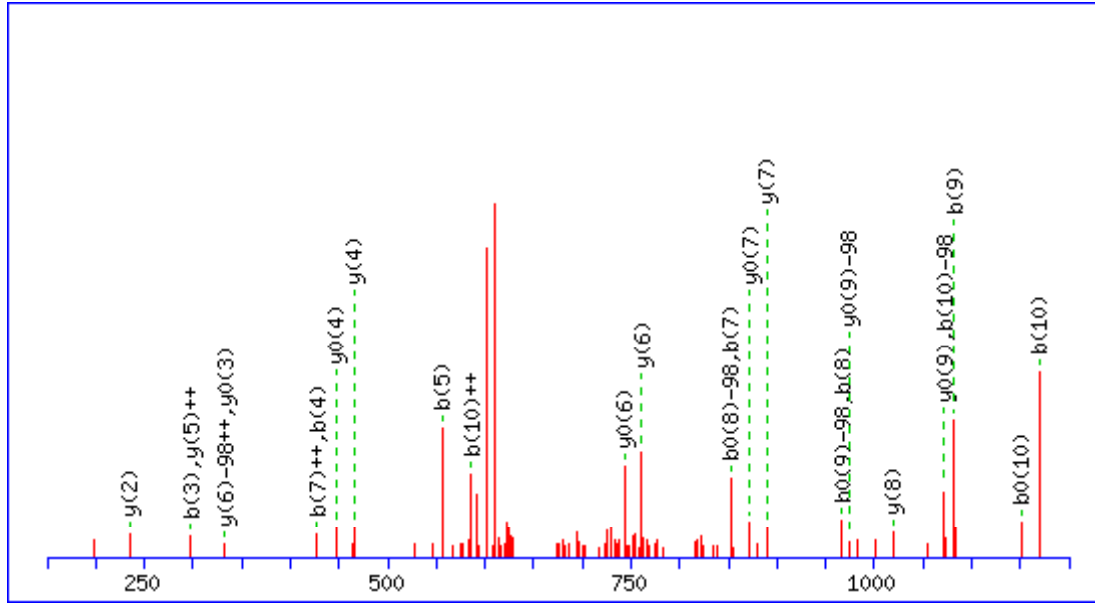
(Y)MPEQKITEIEDGQDGGVpTPY(S) – Pol II RPB 1
Chymotrypsin – LTQ (ETD)
Mascot Score: 96



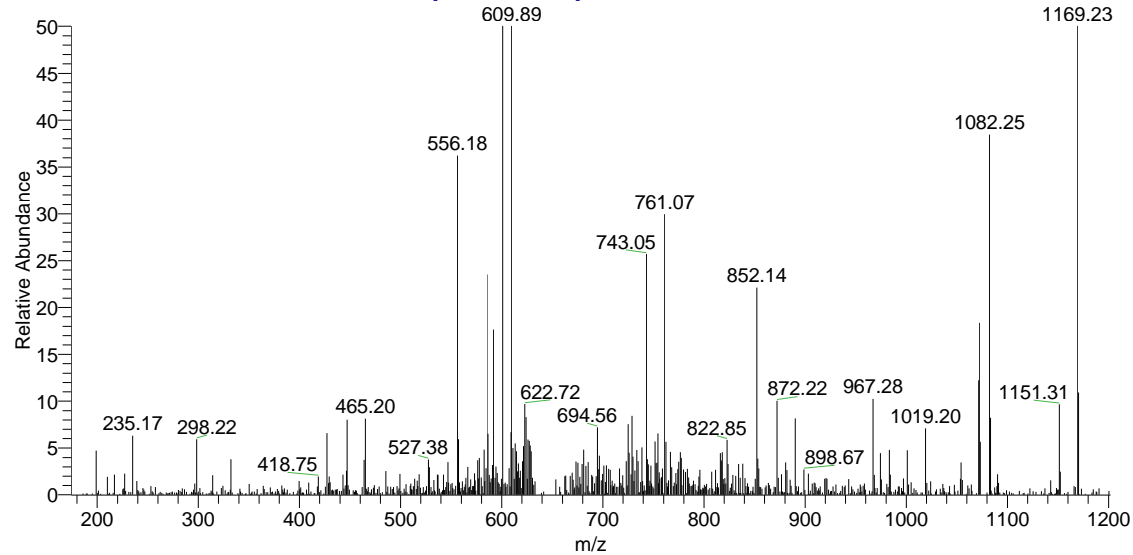
070403_sm4015_20 #9853 RT: 56.86 AV: 1 NL: 9.98E4
T: ITMS + c NSI d sa Full ms2 1144.26@etd150.00 [50.00-2000.00]



(E)LIAEEpSEDDSE(S) – Pol II RPB 2
V8- LTQ-FT (CID)
Mascot Score: 49



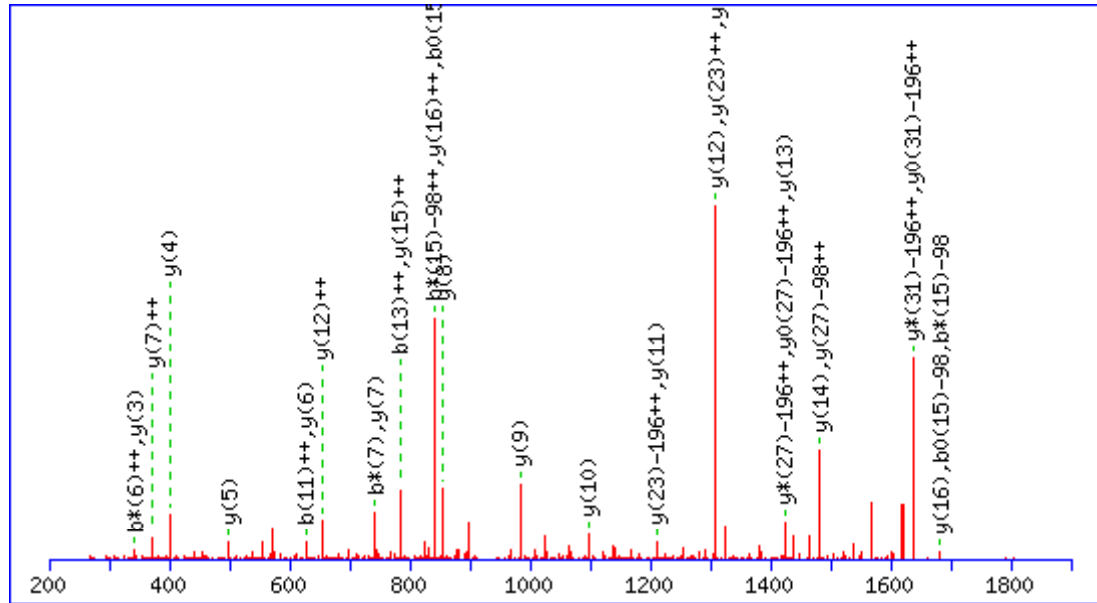
070404_sm4015_13 #3143 RT: 39.95 AV: 1 NL: 9.07E2
T: ITMS + c NSI d w Full ms2 658.74@cid35.00 [170.00-1330.00]



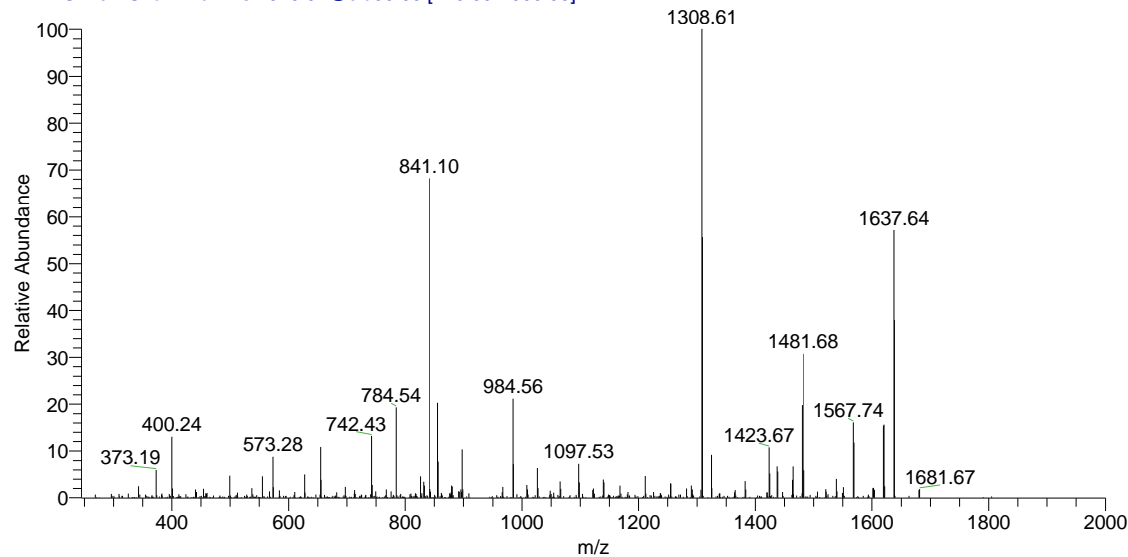
(R)IRGNLMGKRVDFpSARpTVISGDPNLELDQVGVPK(S) – Pol II RPB 3

Trypsin – LTQ (CID)

Mascot Score: 81

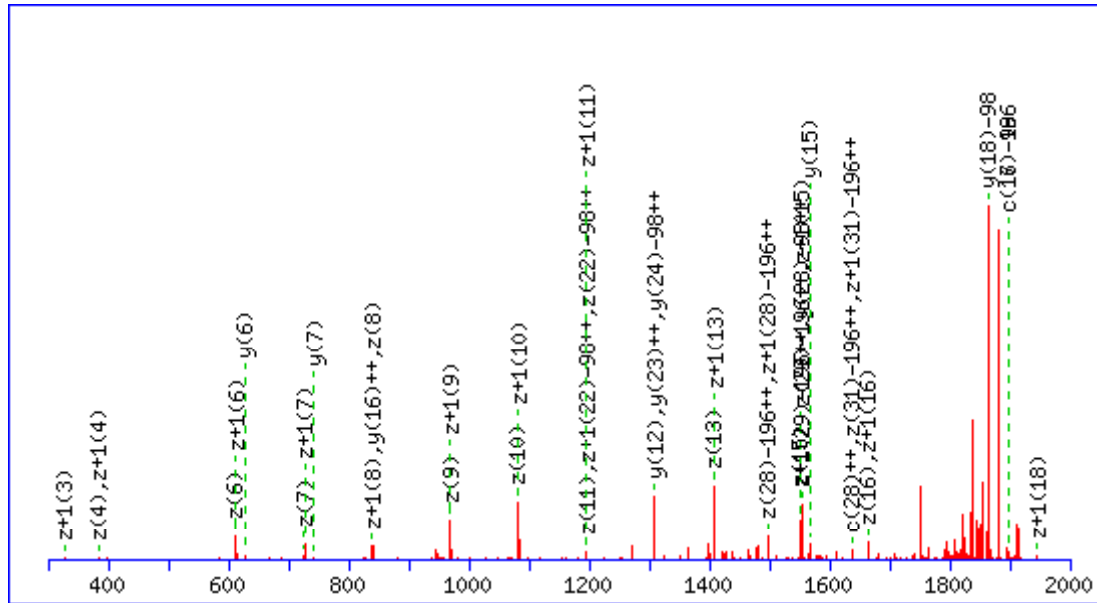


070403_sm4015_04b #10208 RT: 62.13 AV: 1 NL: 1.79E5
T: ITMS + c NSI d w Full ms2 940.94@cid35.00 [245.00-2000.00]

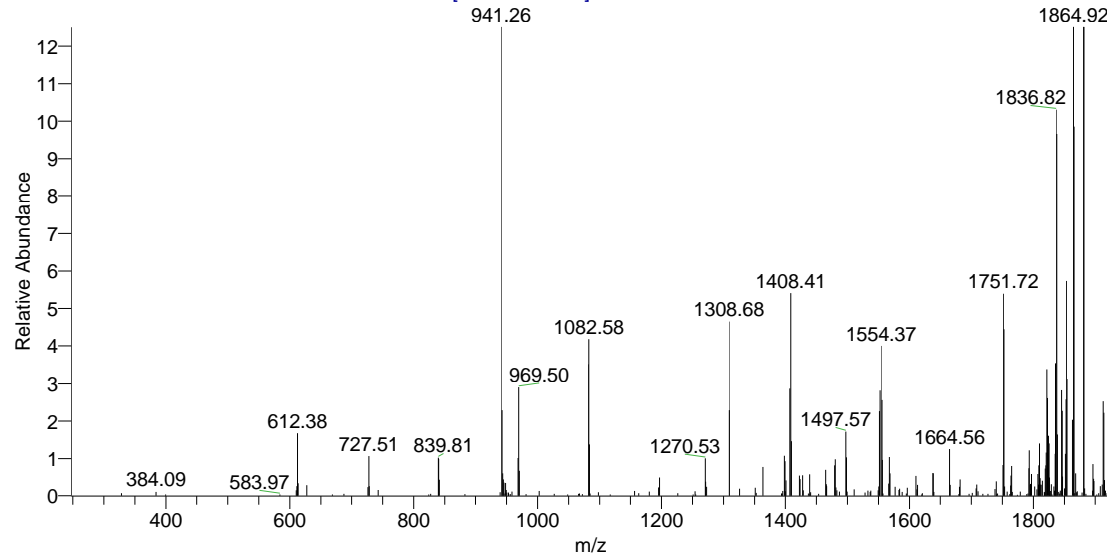


y3-y16 eliminates other possibilities

(R)IRGNLMGKRVDFpSARpTVISGDPNLELDQVGVPK(S) – Pol II RPB 3
Trypsin – LTQ (ETD) – same precursor as CID fragmented (previous slide)
Mascot Score: 67

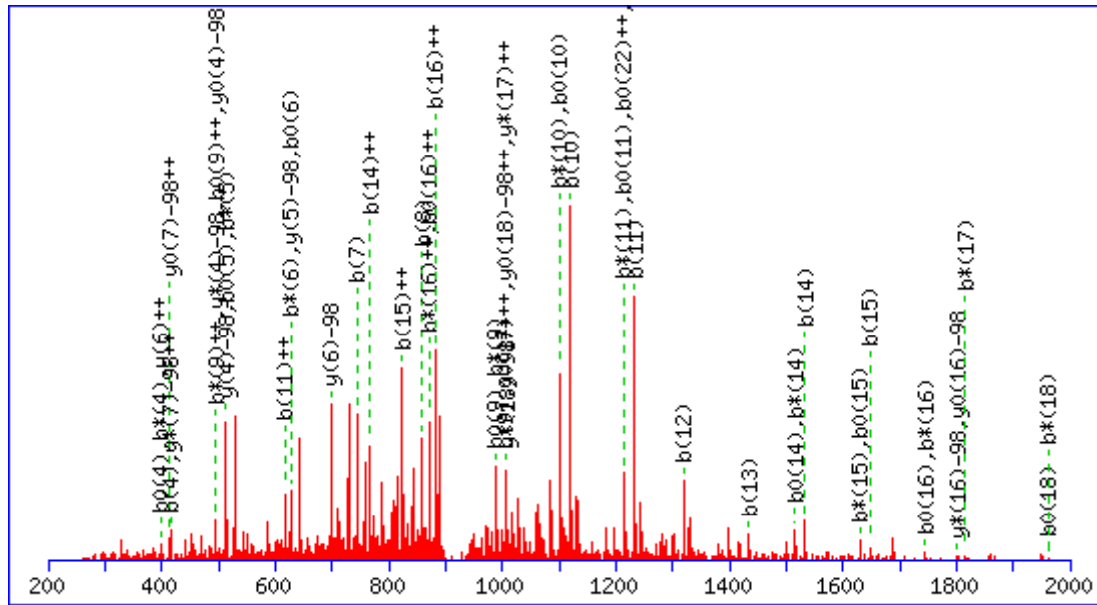


070403_sm4015_04b #10209 RT: 62.13 AV: 1 NL: 1.89E5
 T: ITMS + c NSI d sa Full ms2 940.94@etd150.00 [50.00-2000.00]

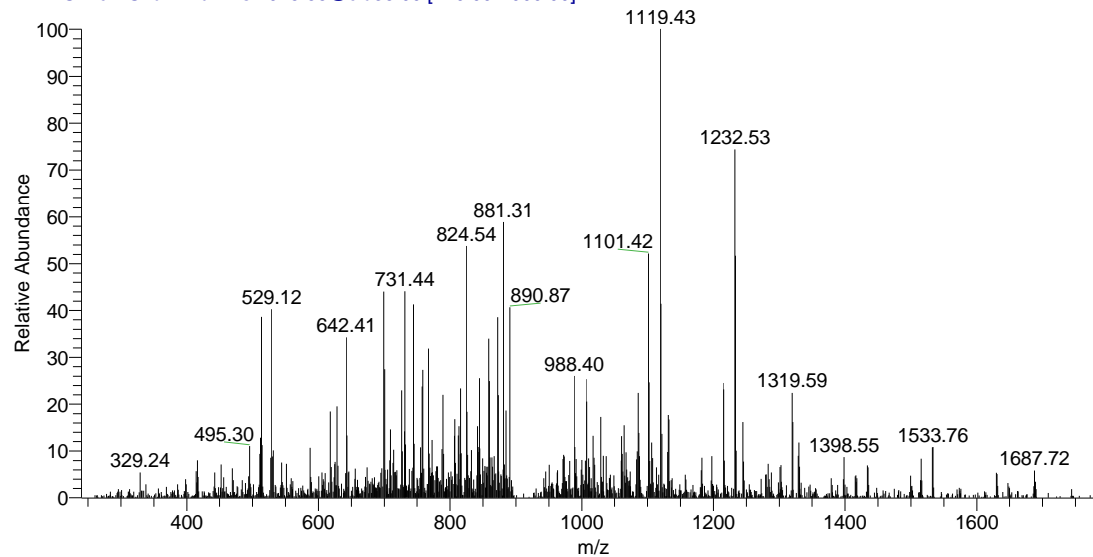


z4-z16 eliminates other possibilities

(R)EASKDNVDFILp(SNVDLAMANS)LRR(V) – Pol II RPB 3
Trypsin – LTQ (CID)
Mascot Score: 48



070403_sm4015_04b #12563 RT: 77.46 AV: 1 NL: 8.84E3
 T: ITMS + c NSI d w Full ms2 925.66@cid35.00 [240.00-2000.00]



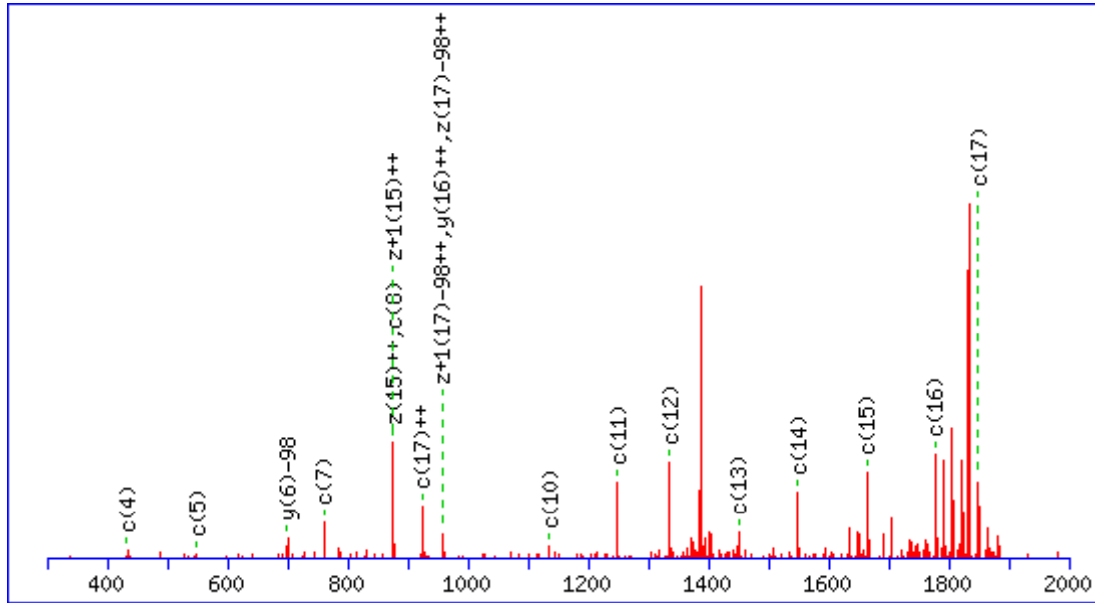
b13, b14, b15 eliminate all other serines

ETD spectra confirms – was also next scan

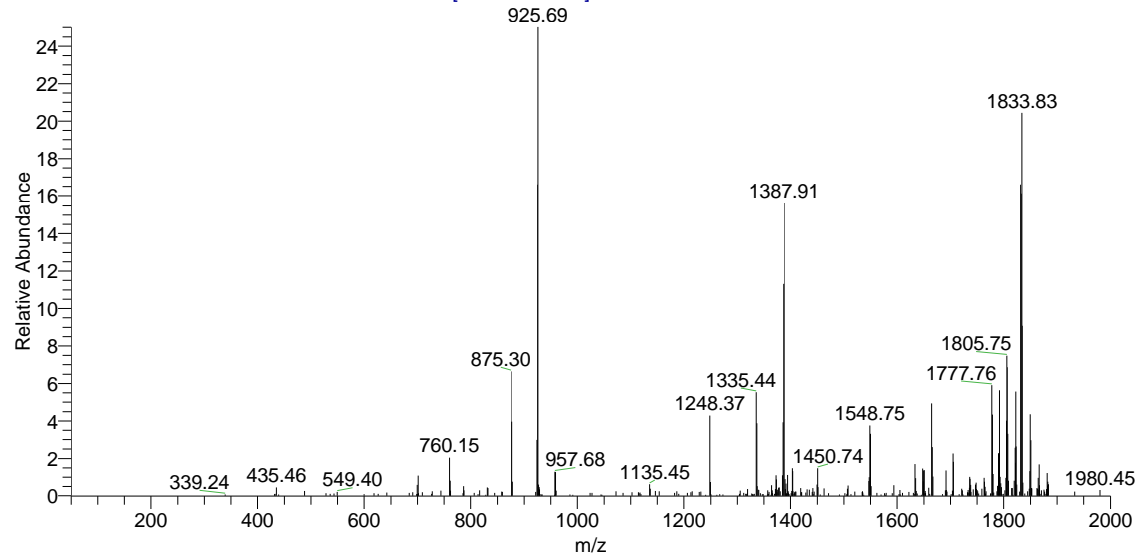
(R)EASKDNVDFILSNVDLAMANpSLRR(V) – Pol II RPB 3

Trypsin – LTQ (ETD)

Mascot Score: 53



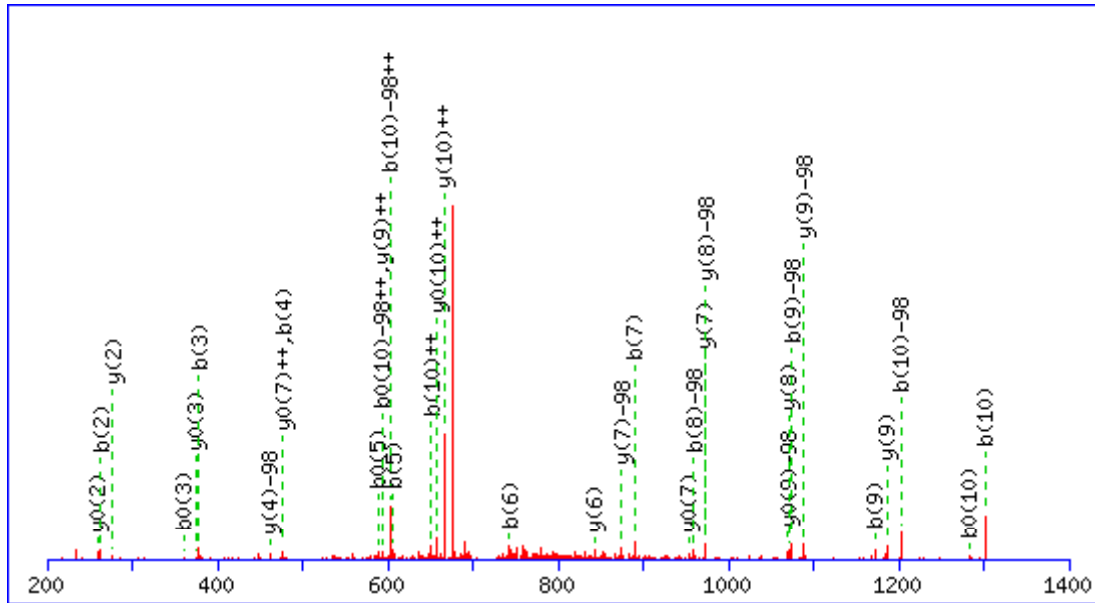
070403_sm4015_04b #12564 RT: 77.46 AV: 1 NL: 1.30E4
T: ITMS + c NSI d sa Full ms2 925.66@etd150.00 [50.00-2000.00]



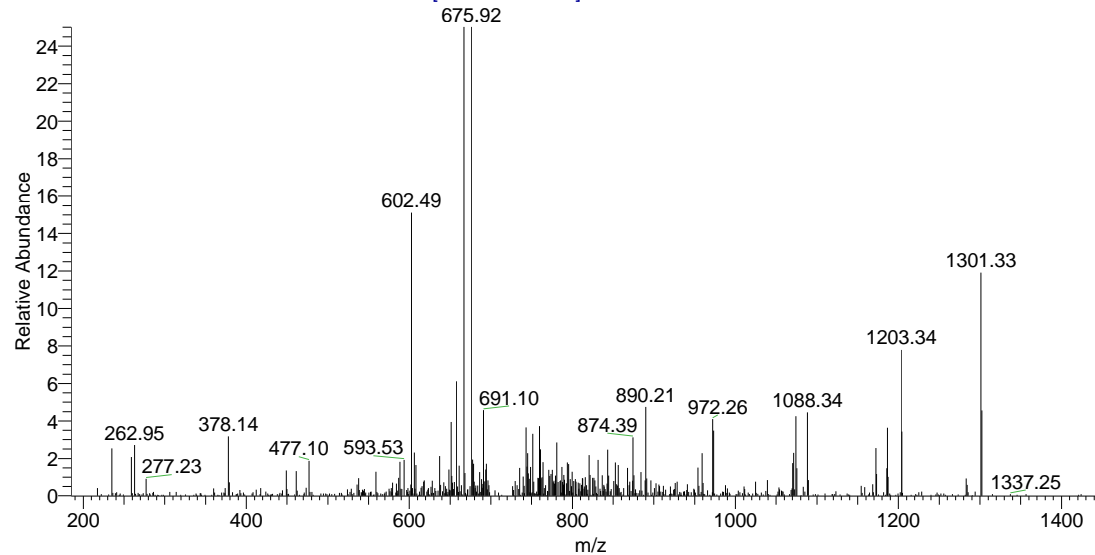
c14, c15, c16 eliminate all other serines

CID spectra confirms – preceding scan

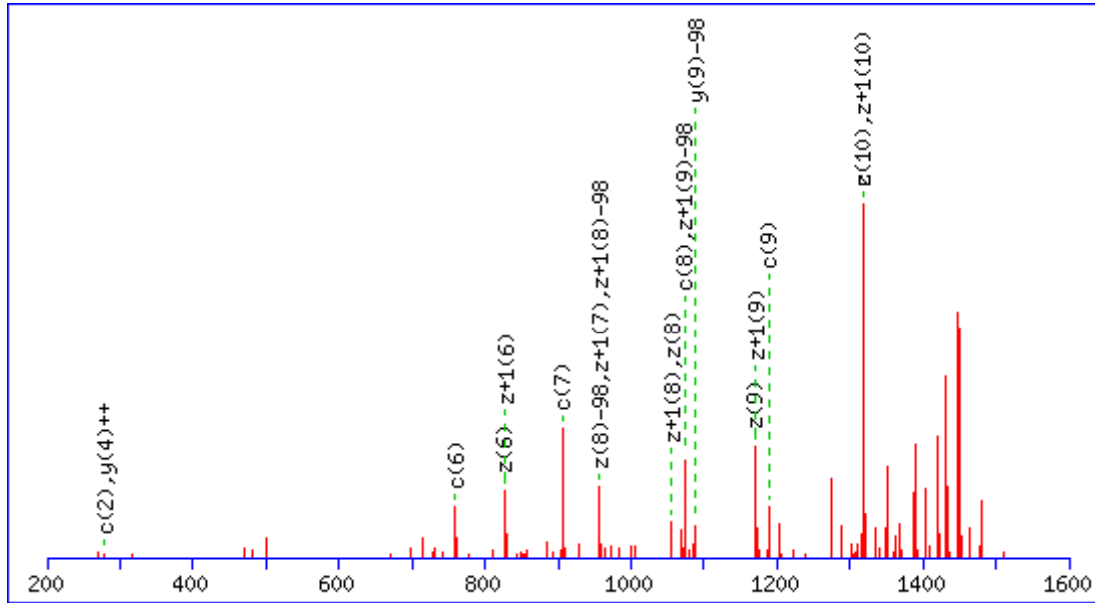
(E)DFDVEHFpSDEE(T) – Pol II RPB 6
V8– LTQ-FT (CID)
Mascot Score: 69



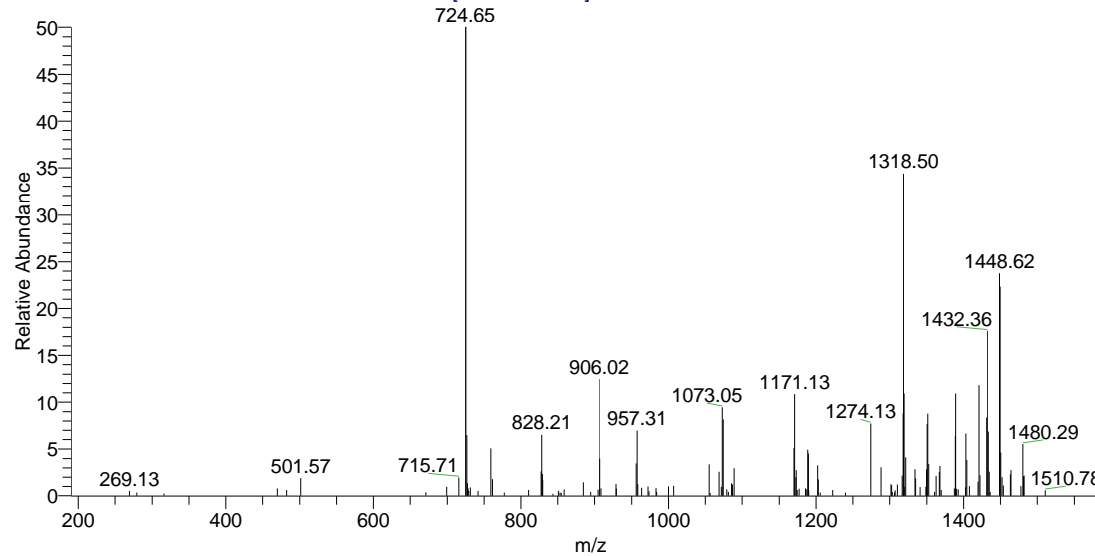
070404_sm4015_13 #6917 RT: 77.70 AV: 1 NL: 1.49E4
T: ITMS + c NSI d w Full ms2 724.75@cid35.00 [185.00-1460.00]



(E)DFDVEHFpSDEE(T) – Pol II RPB 6
V8 – LTQ (ETD)
Mascot Score: 44



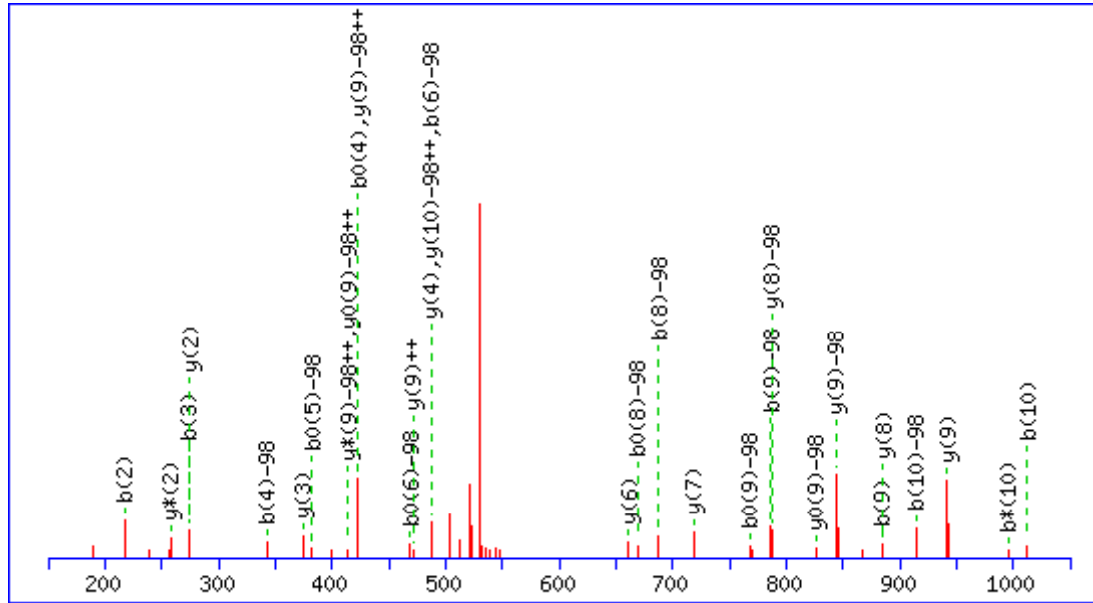
070403_sm4015_12 #11311 RT: 69.13 AV: 1 NL: 9.88E3
T: ITMS + c NSI d sa Full ms2 725.98@etd150.00 [50.00-2000.00]



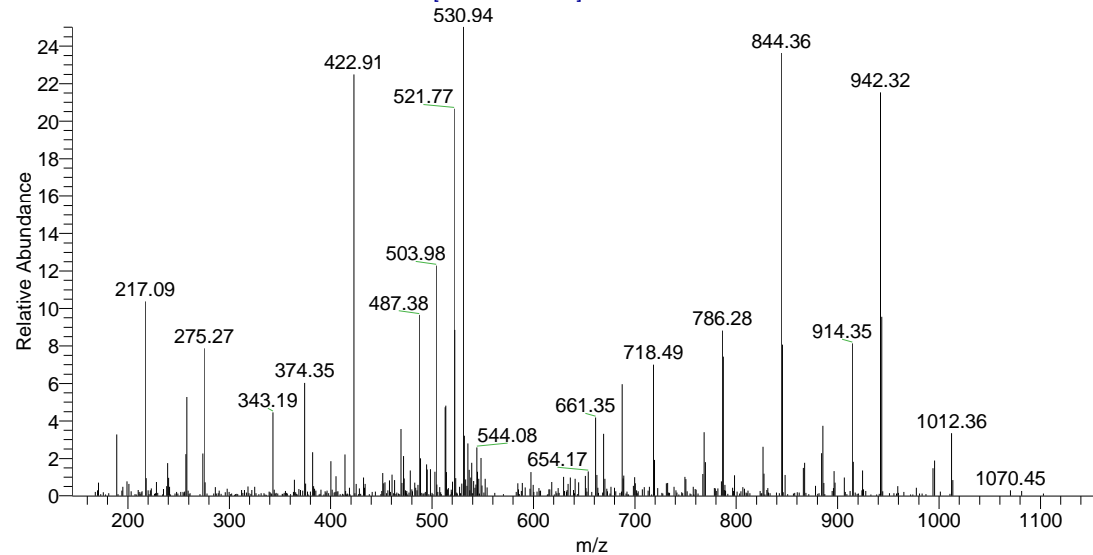
(K)SEGpSGSSLVQK(G) – Pol III RPC 4

Trypsin – LTQ-FT (CID)

Mascot Score: 58



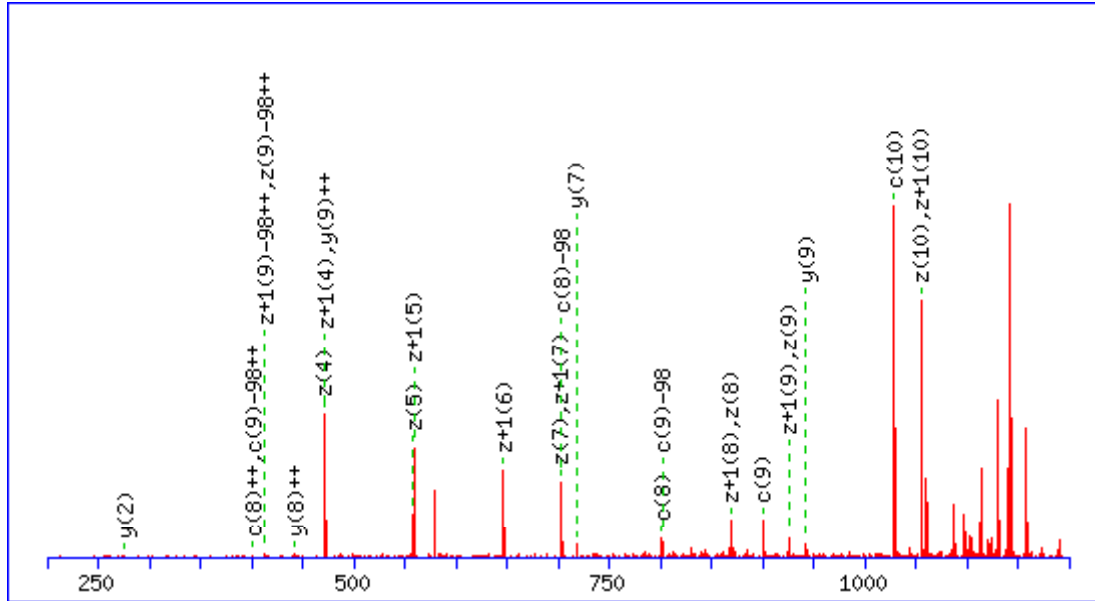
070404_sm4015_03 #1724 RT: 28.18 AV: 1 NL: 1.47E3
T: ITMS + c NSI d w Full ms2 579.76@cid35.00 [145.00-1170.00]



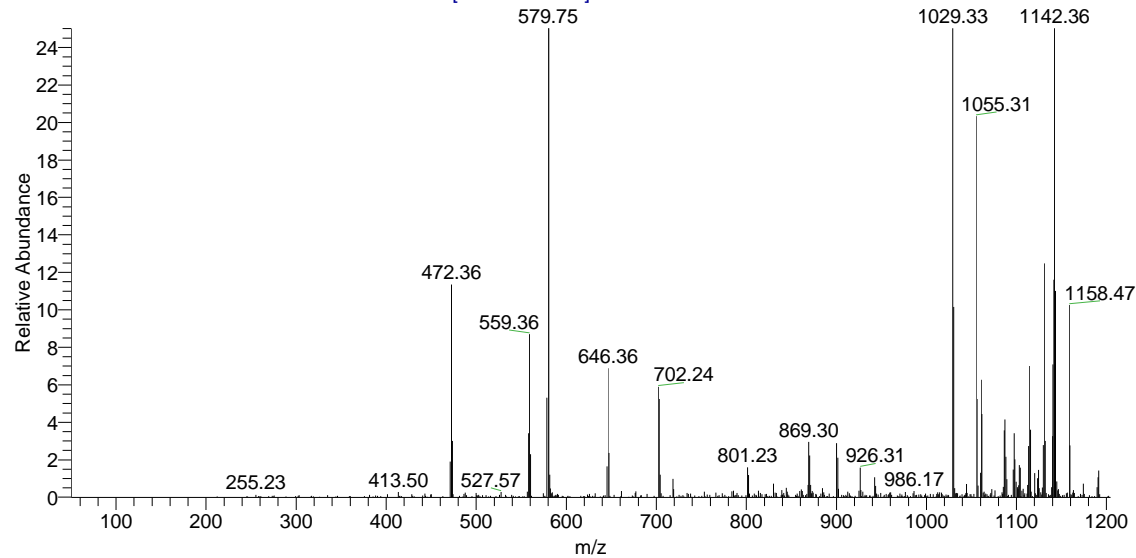
(K)SEGpSGSSLVQK(G) – Pol III RPC 4

Trypsin – LTQ (ETD)

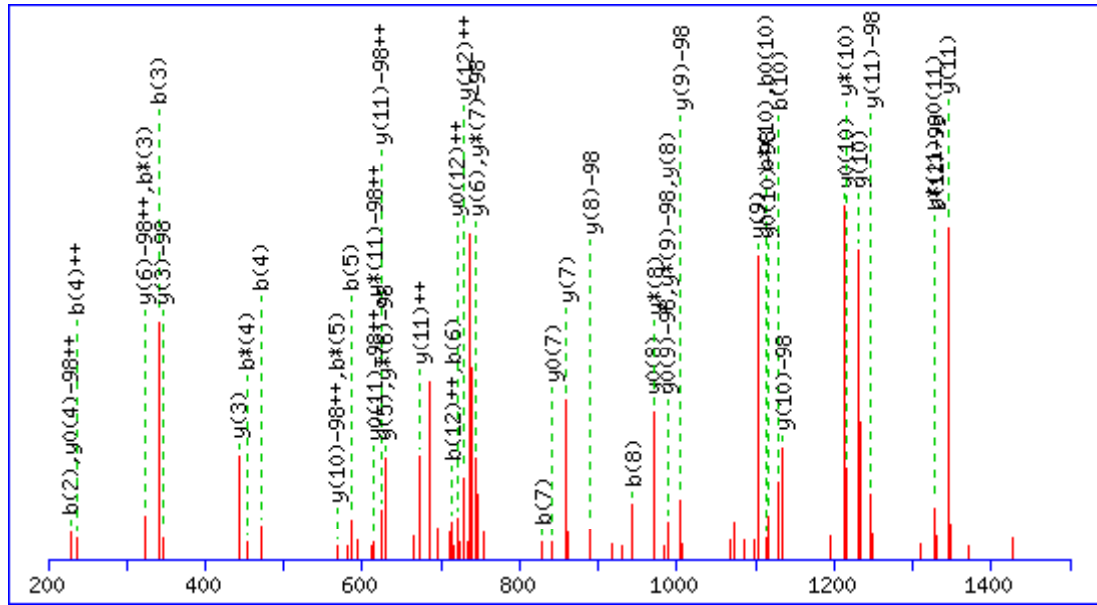
Mascot Score: 55



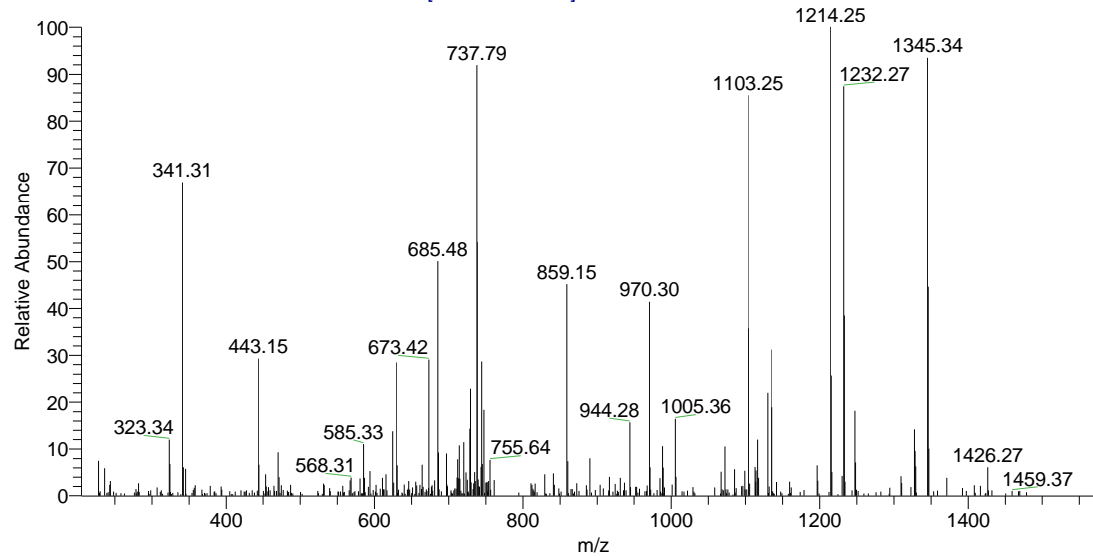
070403_sm4015_06 #4904 RT: 29.28 AV: 1 NL: 7.27E3
T: ITMS + c NSI d sa Full ms2 580.03@etd150.00 [50.00-2000.00]



(R)NLIEDDGEpSEK(S) – Pol III RPC 4
Trypsin – LTQ-FT (CID)
Mascot Score: 51



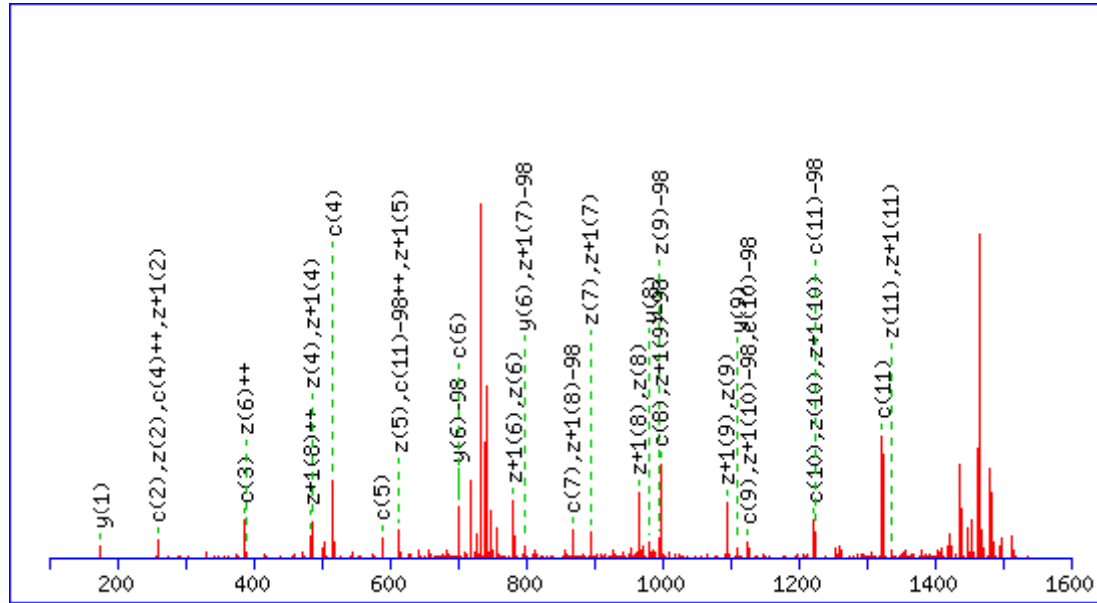
070404_sm4015_03 #3489 RT: 43.28 AV: 1 NL: 7.38E2
 T: ITMS + c NSI d w Full ms2 786.81 @cid35.00 [205.00-1585.00]



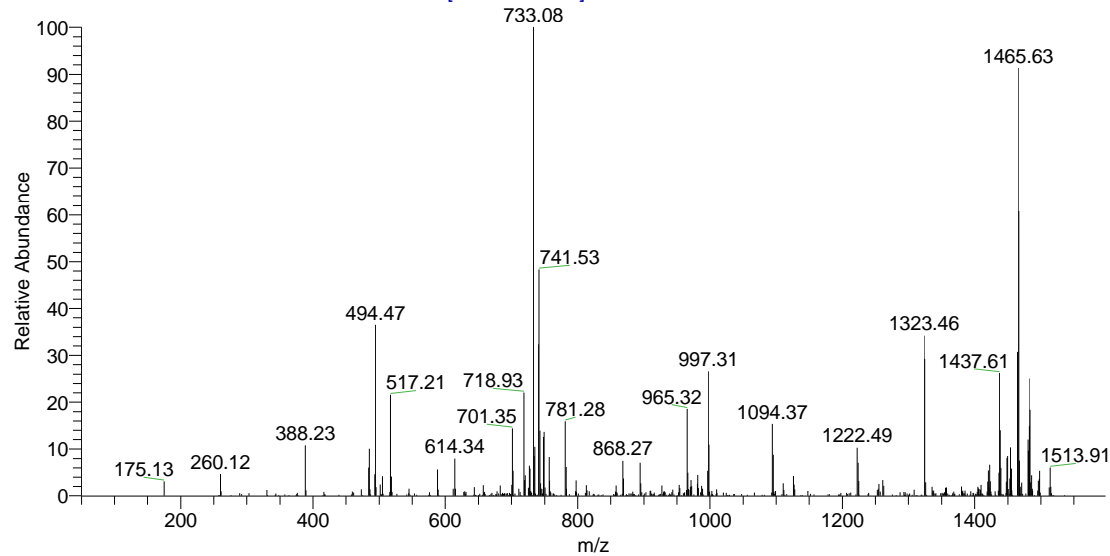
(R)EIQEALpSEKPTR(E)– Pol III RPC 4

Trypsin – LTQ (ETD)

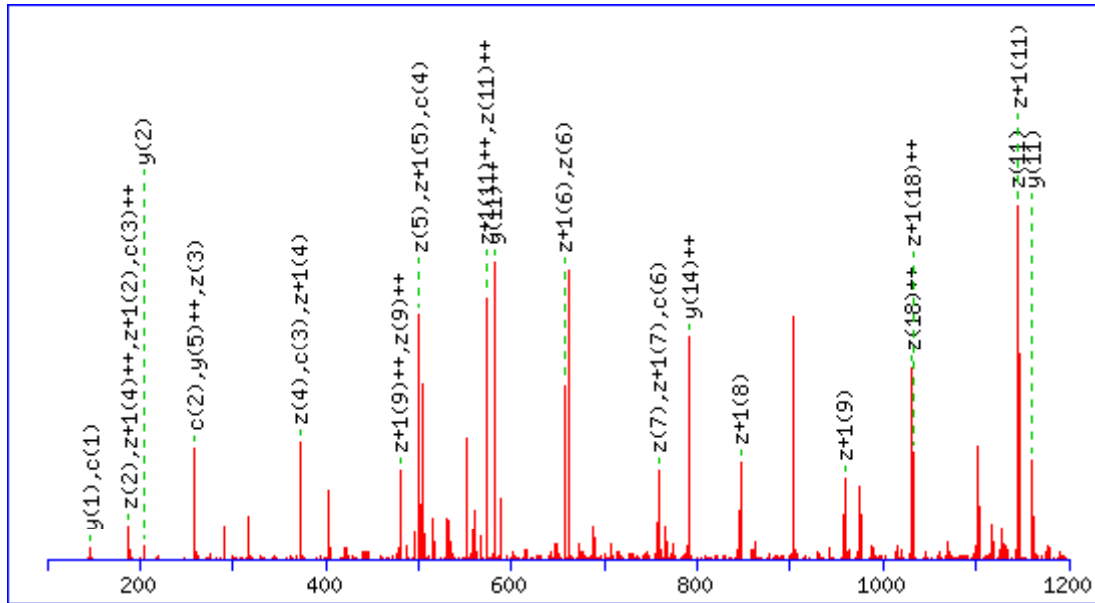
Mascot Score: 62



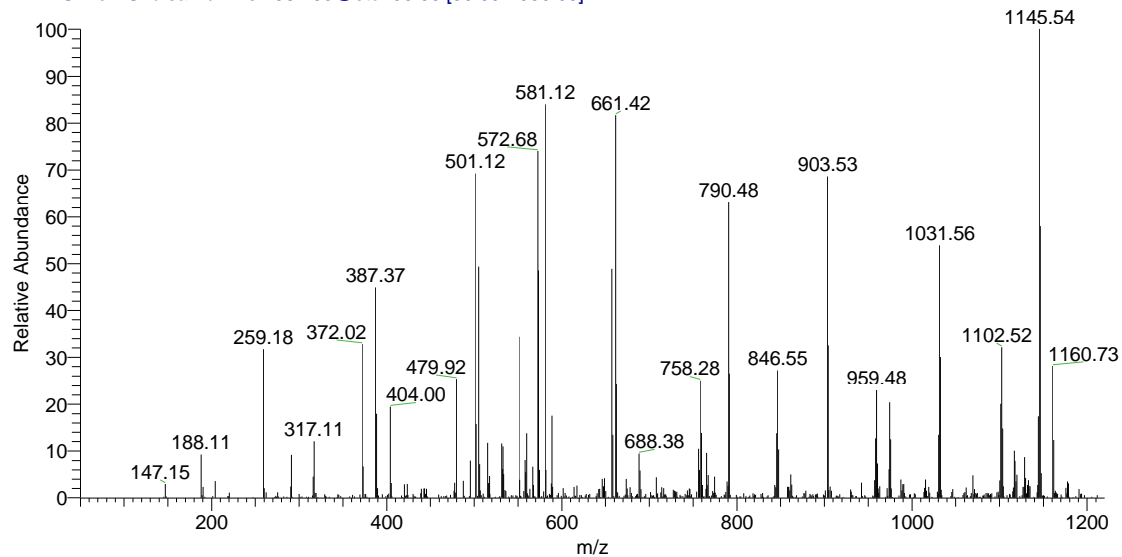
070403_sm4015_06 #5454 RT: 33.01 AV: 1 NL: 1.14E4
T: ITMS + c NSI d sa Full ms2 494.54@etd150.00 [50.00-2000.00]



(K)KNIKKKDpTKDALSTRELAK(V)– Pol III RPC 4
 Lys-C– LTQ (ETD)
 Mascot Score: 47



070403_sm4015_18 #5556 RT: 33.16 AV: 1 NL: 1.51E4
 T: ITMS + c NSI d sa Full ms2 387.83@etd150.00 [50.00-1950.00]

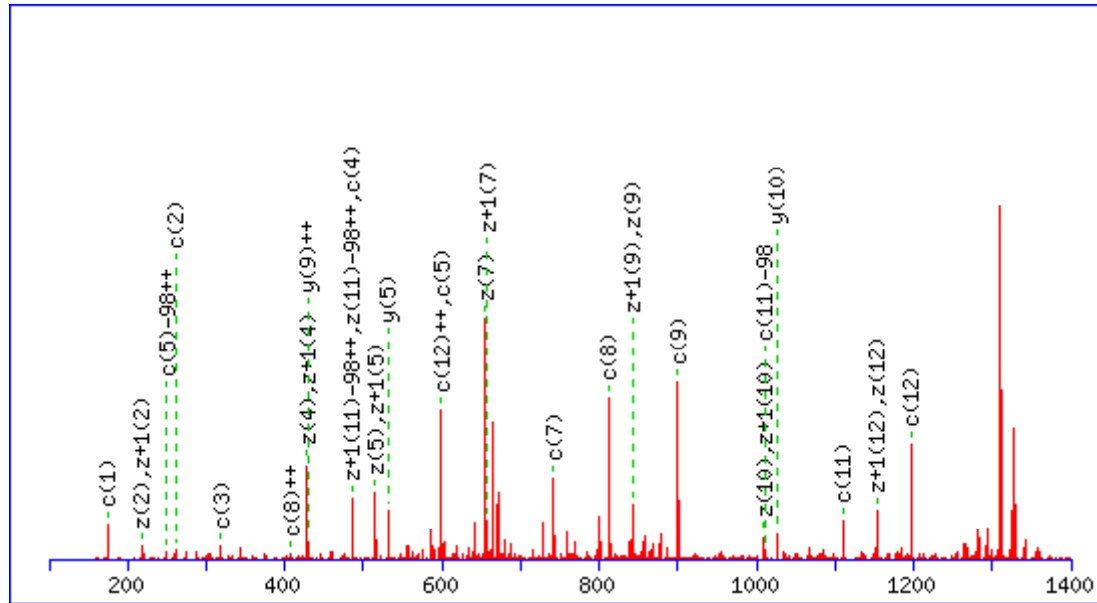


z2-z9 suggests T8

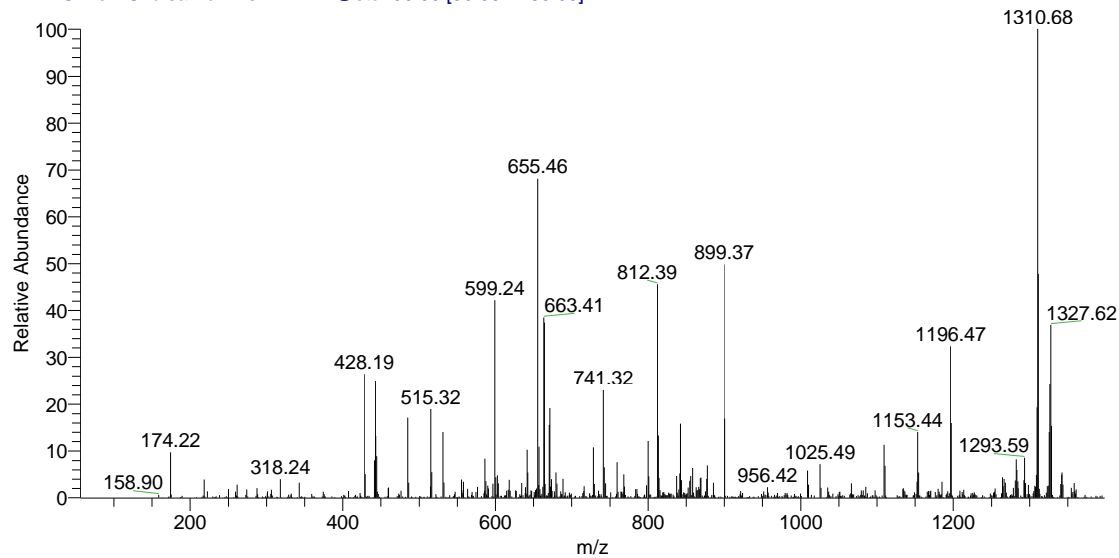
(K)RSGpSNAASLPSK(K)– Pol III RPC 3

Lys-C – LTQ (ETD)

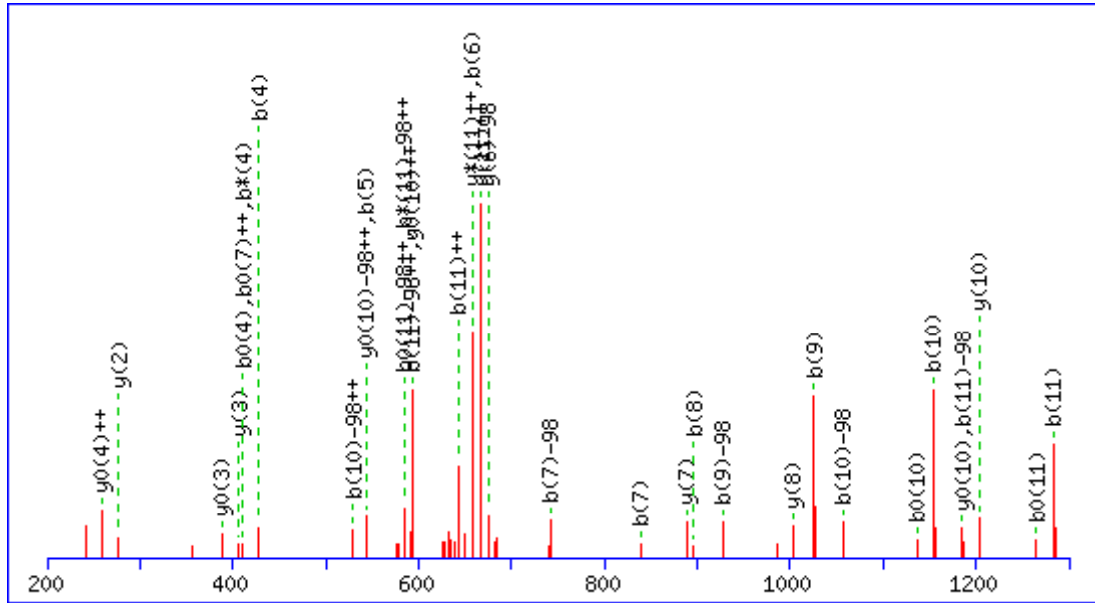
Mascot Score: 81



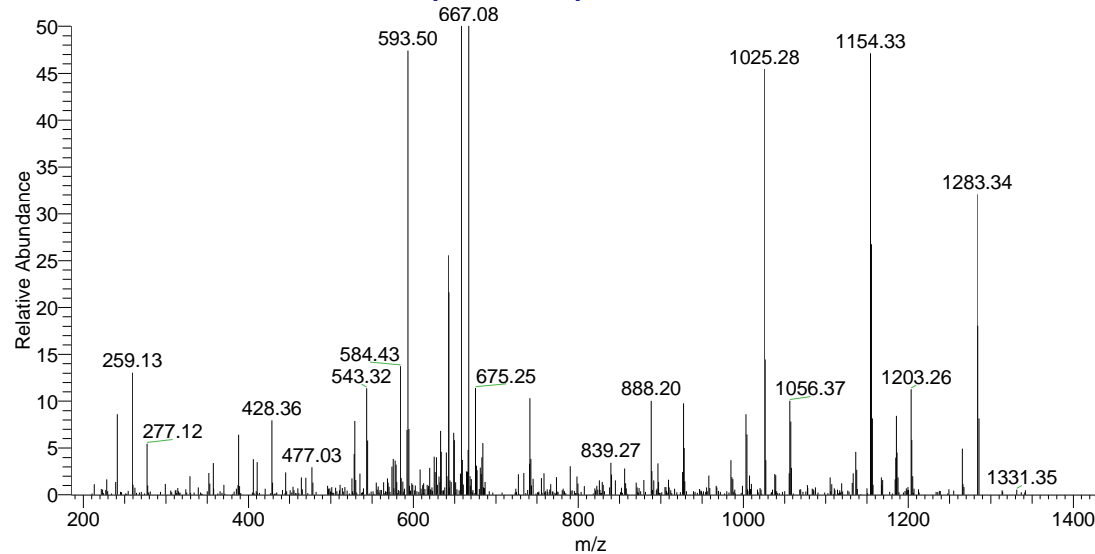
070403_sm4015_18 #4589 RT: 25.99 AV: 1 NL: 2.74E3
T: ITMS + c NSI d sa Full ms2 442.74@etd150.00 [50.00-1785.00]



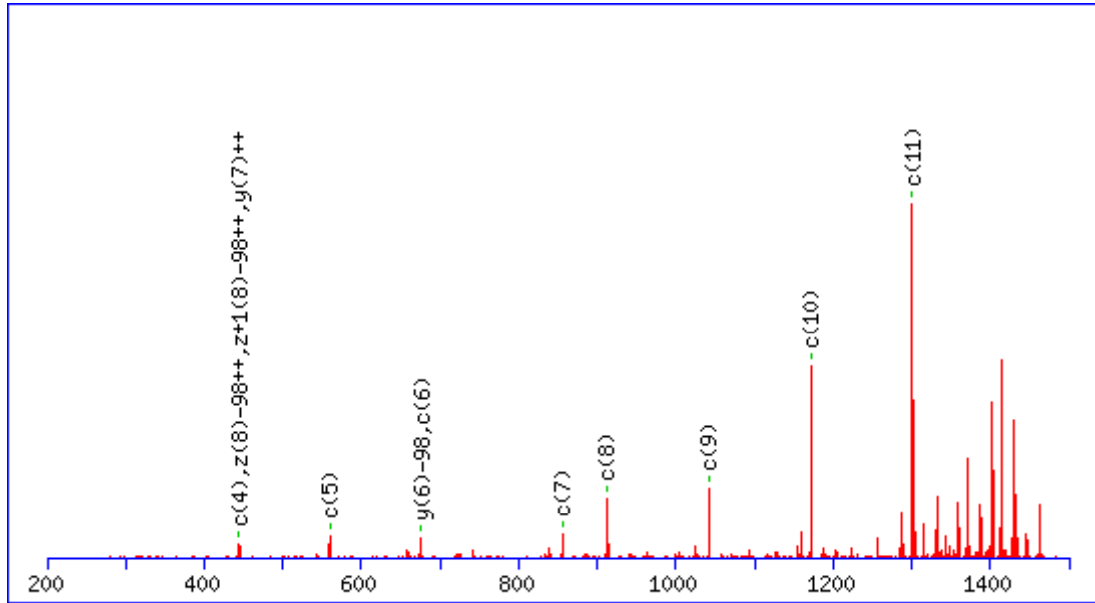
(E)VKAEDDpTGEEEE(D)– Pol III RPC 37
V8 – LTQ-FT (CID)
Mascot Score: 51



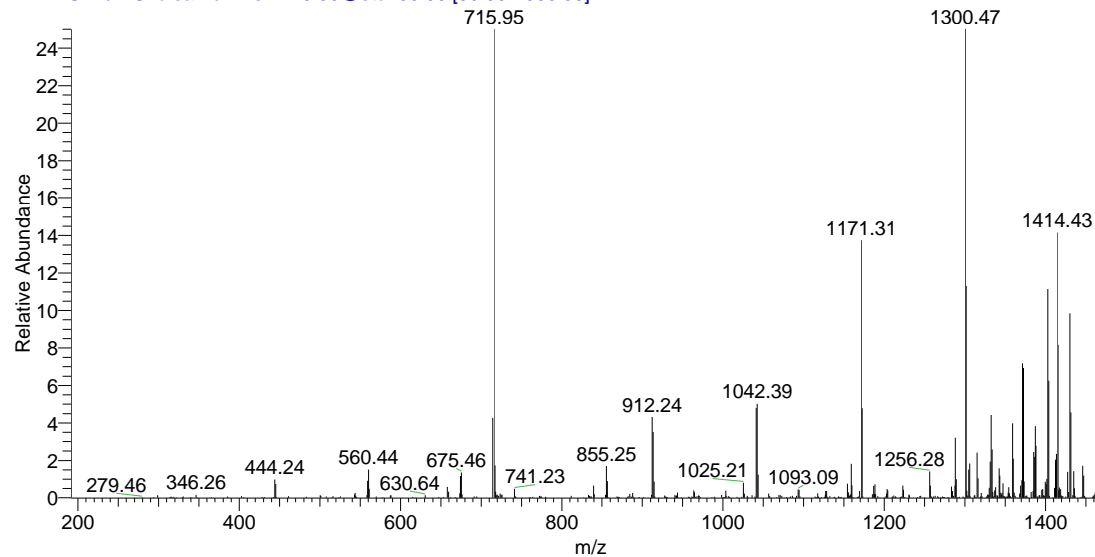
070404_sm4015_15 #1113 RT: 23.91 AV: 1 NL: 7.78E2
T: ITMS + c NSI d w Full ms2 715.77@cid35.00 [185.00-1445.00]



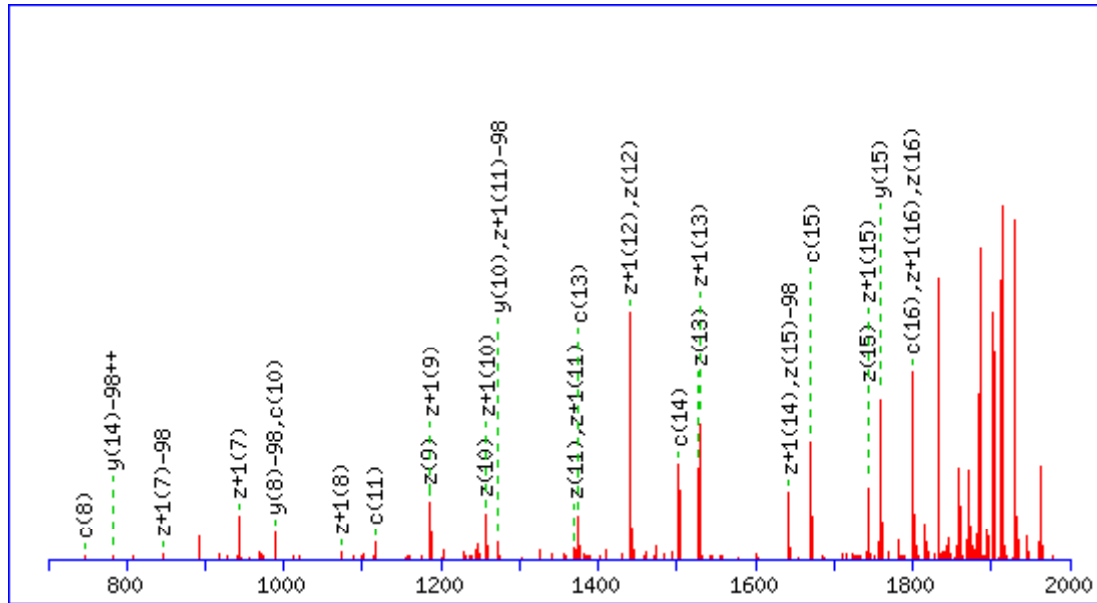
(E)VKAEDDpTGEEEE(D)– Pol III RPC 37
V8 – LTQ (ETD)
Mascot Score: 61



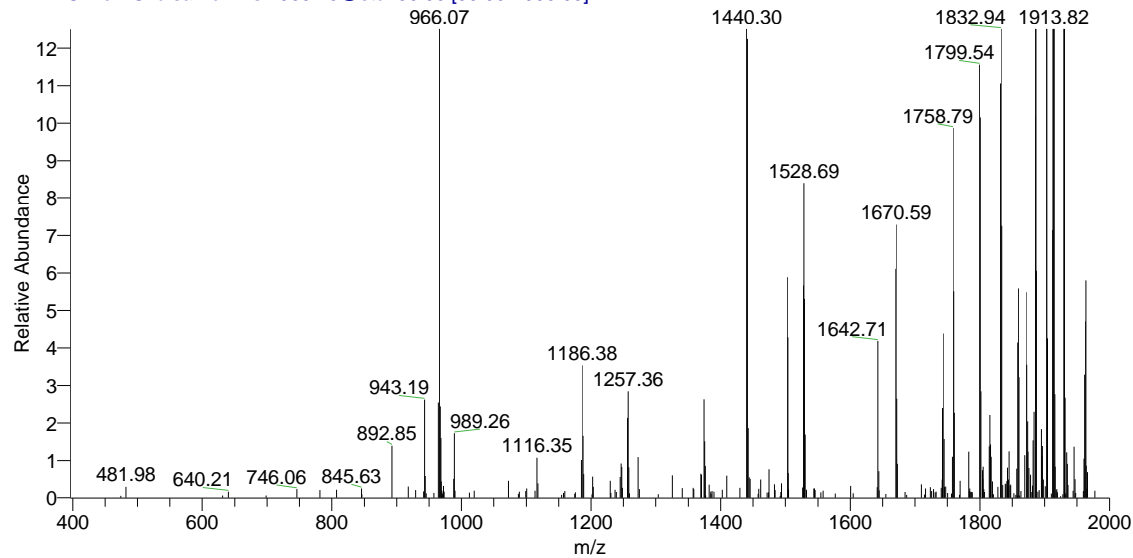
070403_sm4015_14 #4290 RT: 24.58 AV: 1 NL: 4.73E4
T: ITMS + c NSI d sa Full ms2 715.86@etd150.00 [50.00-2000.00]



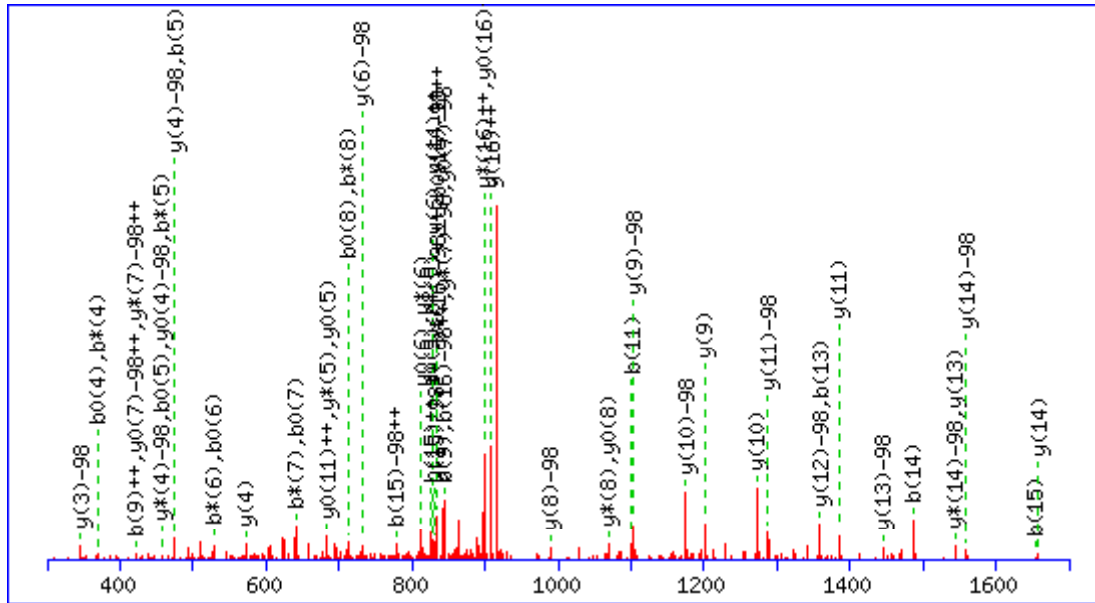
(E)NGTNSAIANEQEEKpSEE(V)– Pol III RPC 37
V8 – LTQ (ETD)
Mascot Score: 53



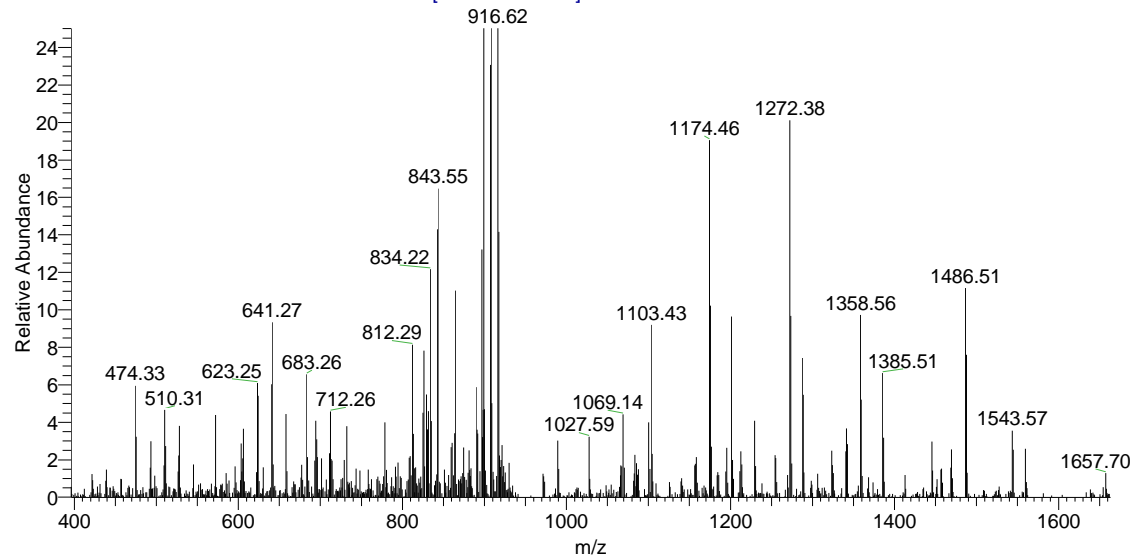
070403_sm4015_14 #4880 RT: 29.25 AV: 1 NL: 1.84E3
T: ITMS + c NSI d sa Full ms2 965.76@etd150.00 [50.00-2000.00]



(E)NGTNSAIANEQEEKpSEE(V)– Pol III RPC 37
 V8 – LTQ (CID)
 Mascot Score: 71



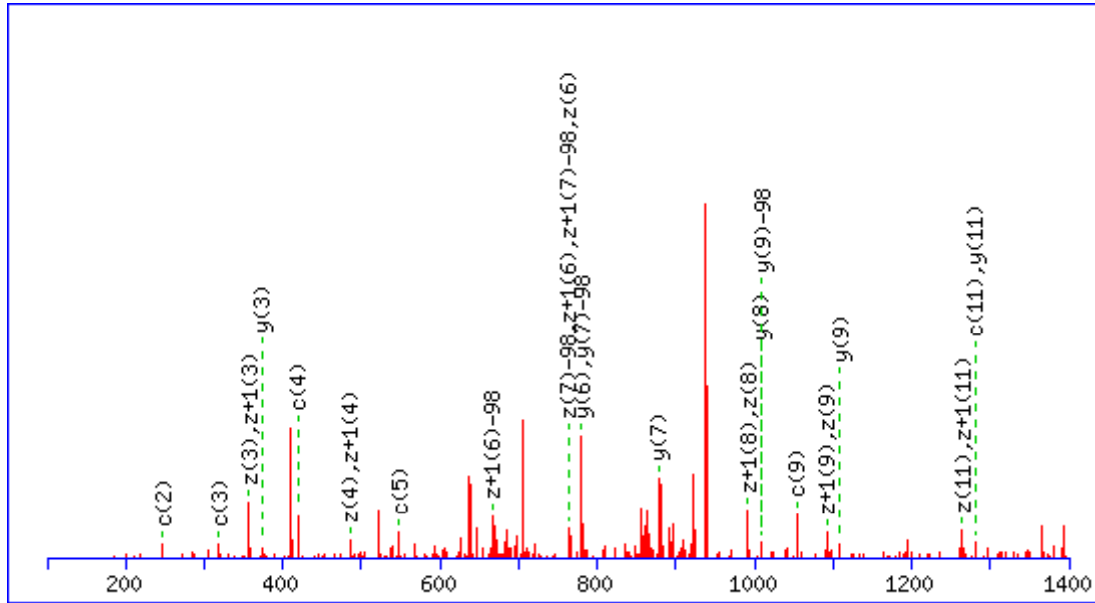
070403_sm4015_14 #4879 RT: 29.24 AV: 1 NL: 6.26E3
 T: ITMS + c NSI d w Full ms2 965.76@cid35.00 [255.00-2000.00]



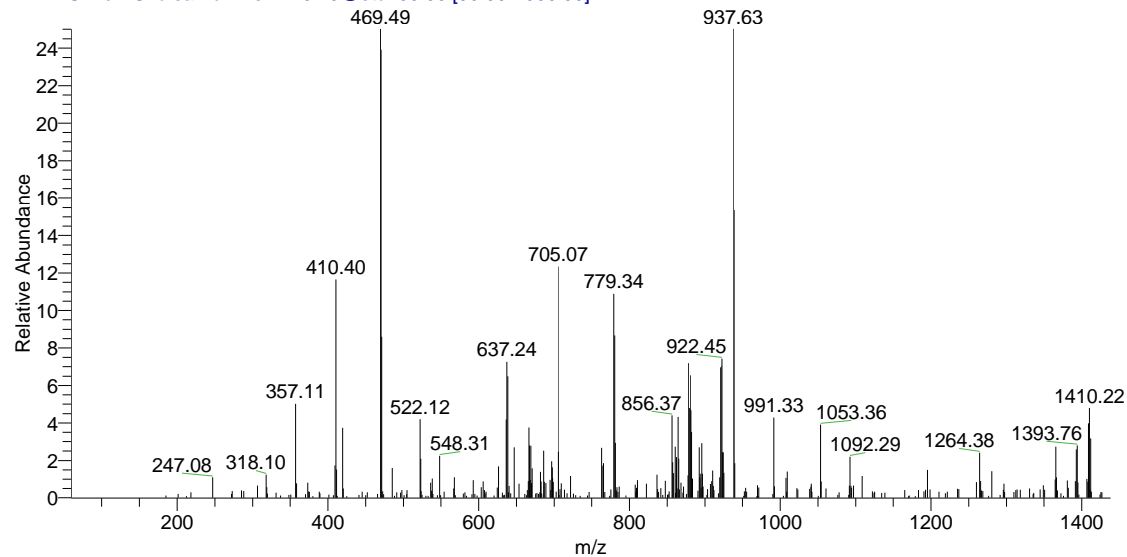
(K)KTATEVpTPQEPK(H)– Pol III RPC 19

Trypsin – LTQ (ETD)

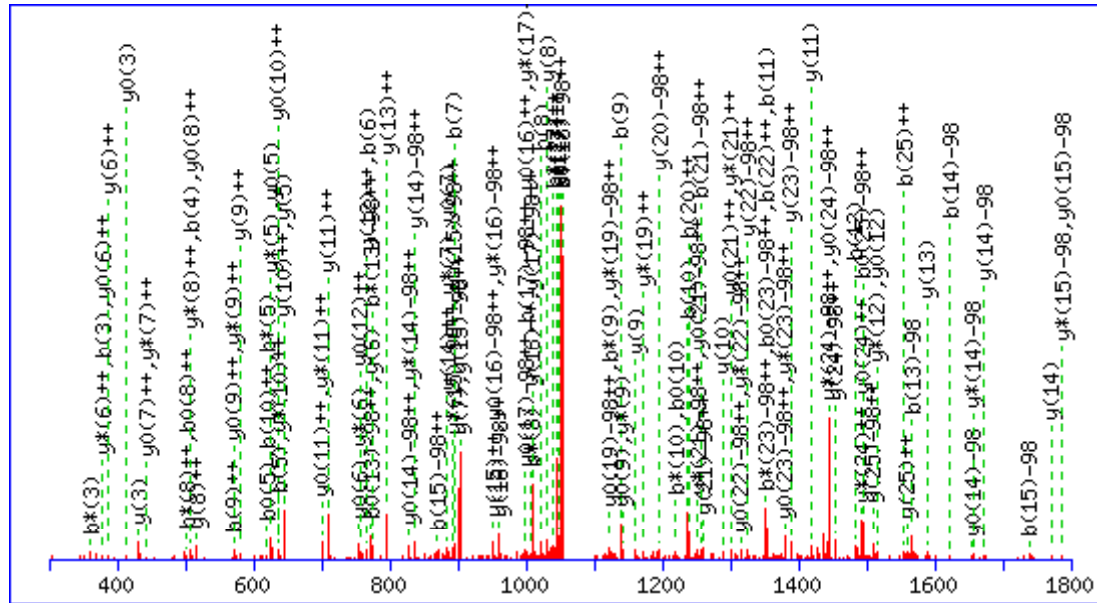
Mascot Score: 25 – same precursor used as CID i.e. Consecutive scan



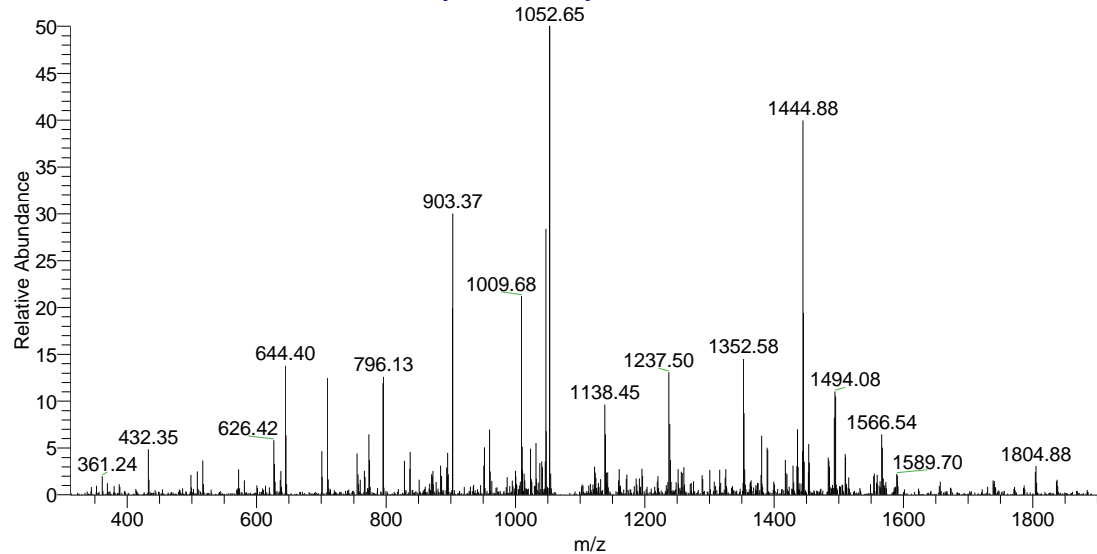
070403_sm4015_06 #4399 RT: 25.68 AV: 1 NL: 2.29E3
T: ITMS + c NSI d sa Full ms2 470.43@etd150.00 [50.00-2000.00]



(K)HIQEEEEQDVDMpTGDEEQEEEPDREK(I)– PoI III RPC 19
Trypsin – LTQ (CID), 2+ ion
Mascot Score: 115



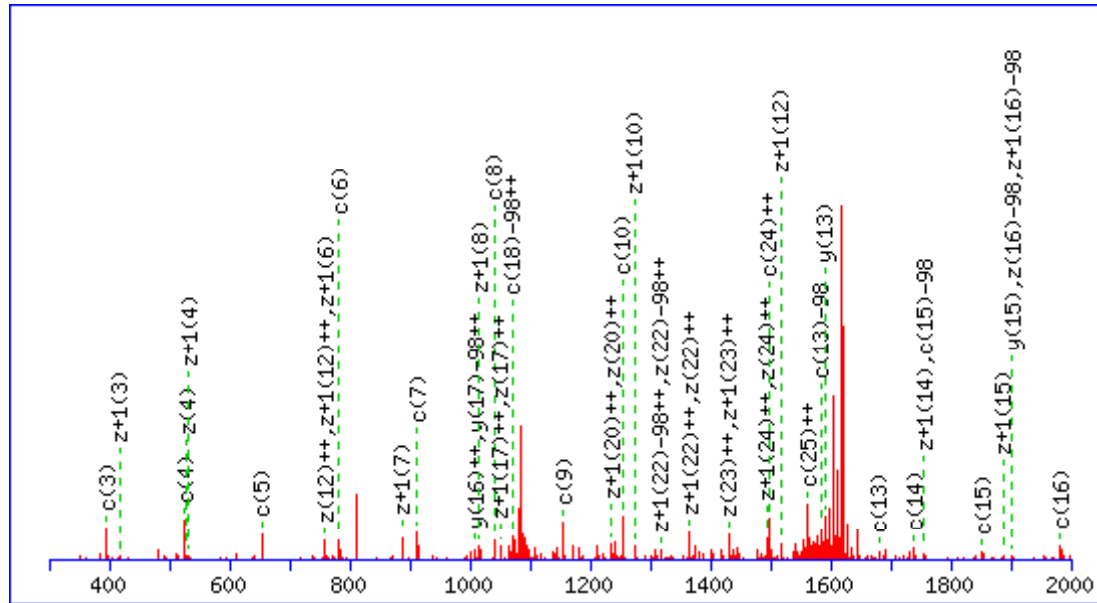
070403_sm4015_06 #6123 RT: 37.42 AV: 1 NL: 6.26E3
 T: ITMS + c NSI d w Full ms2 1085.69@cid35.00 [285.00-2000.00]



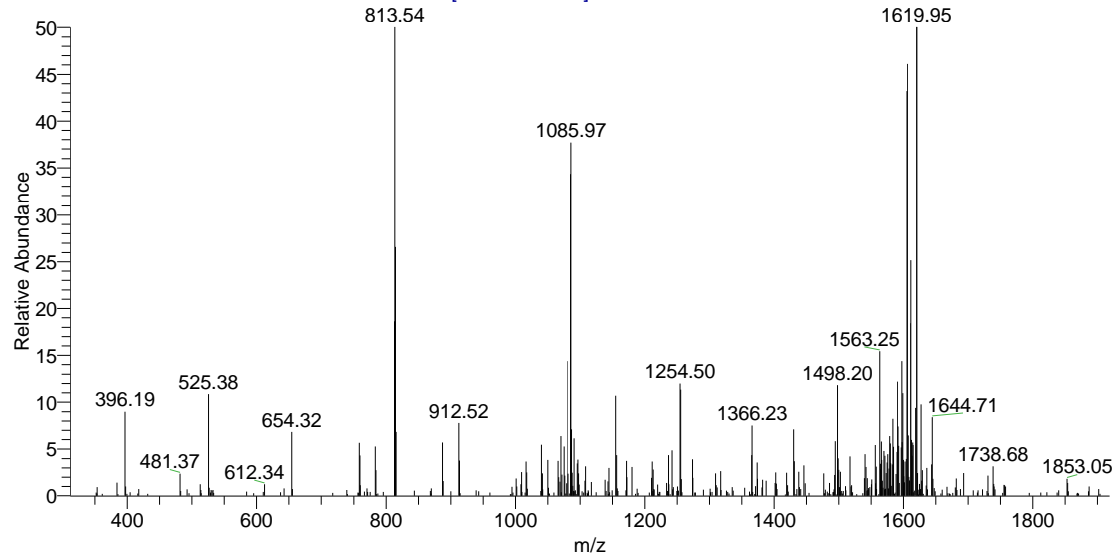
(K)HIQEEEEQDVDM**p**TGDEEQEEEPDREK(I)– PoI III RPC 19

Trypsin – LTQ (ETD), 3+ ion – scan immediately prior to CID scan (previous slide)

Mascot Score: 56



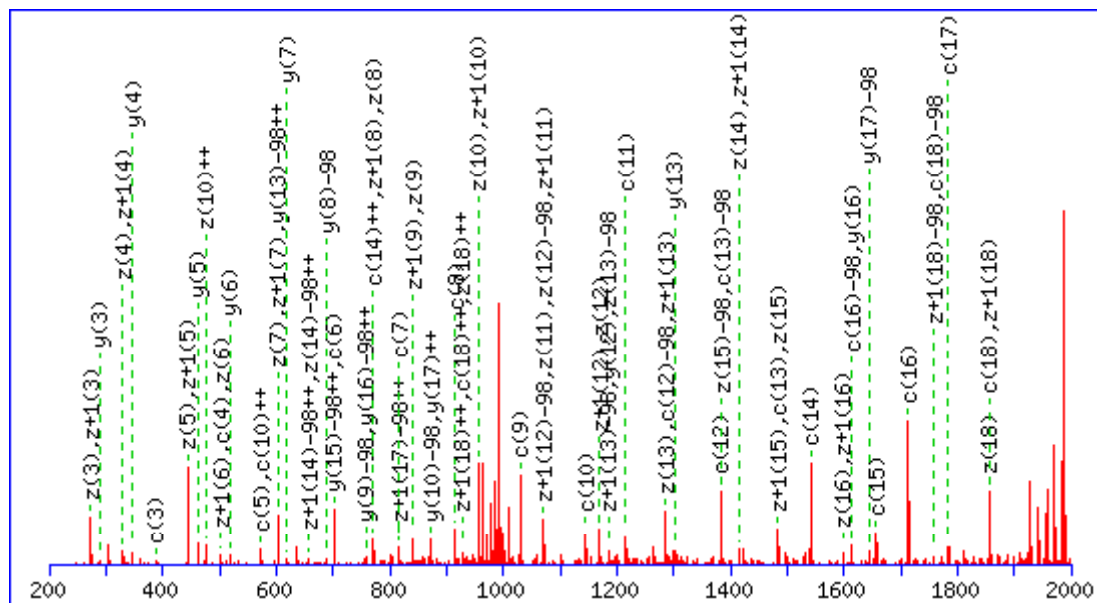
070403_sm4015_06 #6122 RT: 37.41 AV: 1 NL: 1.77E3
T: ITMS + c NSI d sa Full ms2 814.49@etd150.00 [50.00-2000.00]



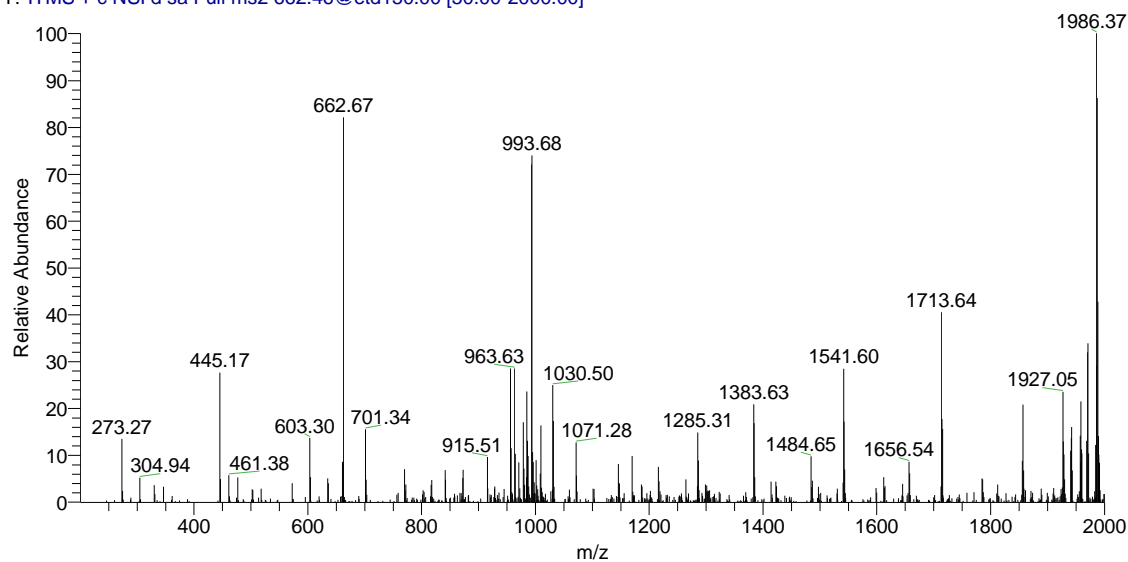
(K)LKELAEVDDApSTGDGAAK(G)– Pol III RPC 8

Lys-C– LTQ (ETD)

Mascot Score: 107



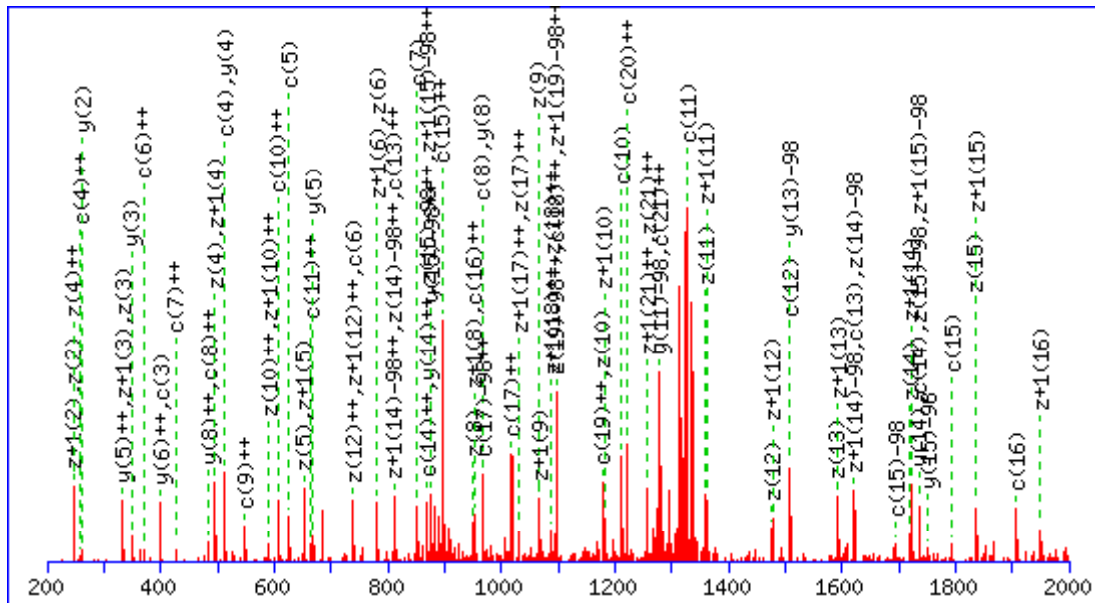
070403_sm4015_18 #6319 RT: 38.84 AV: 1 NL: 1.06E3
T: ITMS + c NSI d sa Full ms2 662.46@etd150.00 [50.00-2000.00]



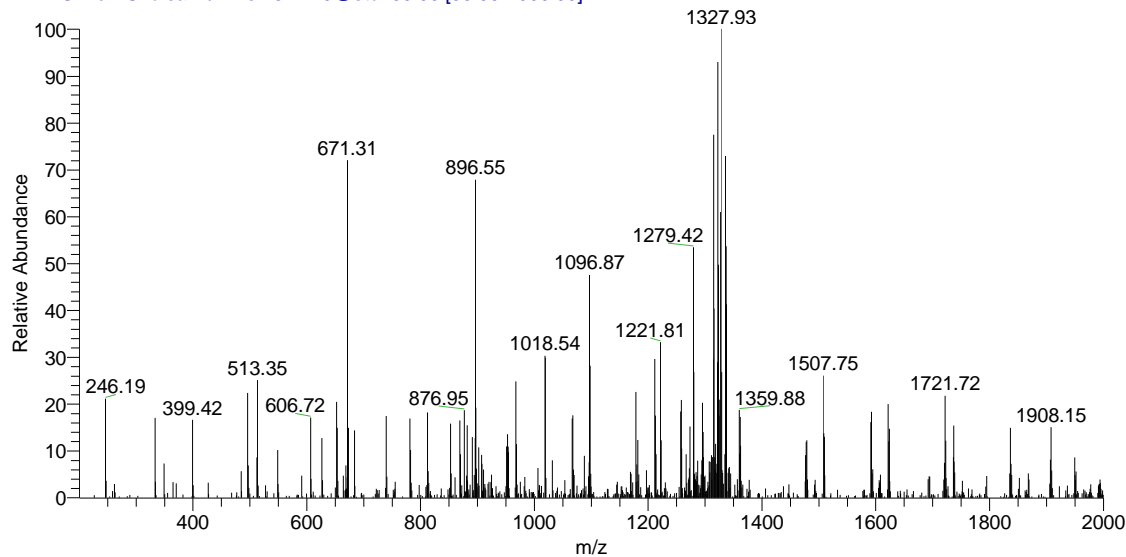
(K)RKPNILDEDDpTNDGIERYSDK(Y)– PoI III RPC 8

Lys-C– LTQ (ETD)

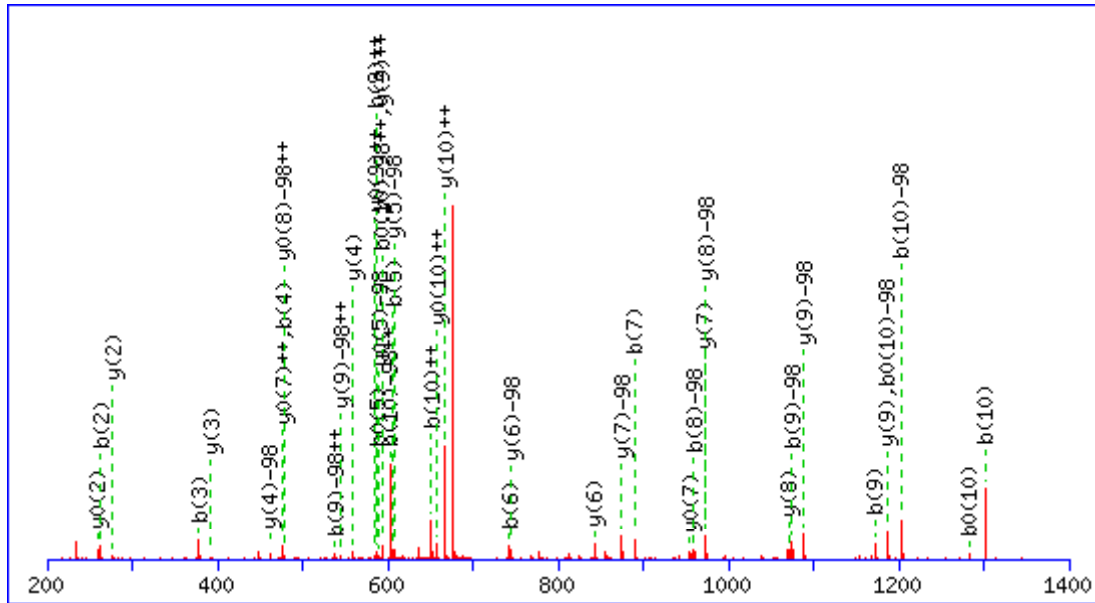
Mascot Score: 98



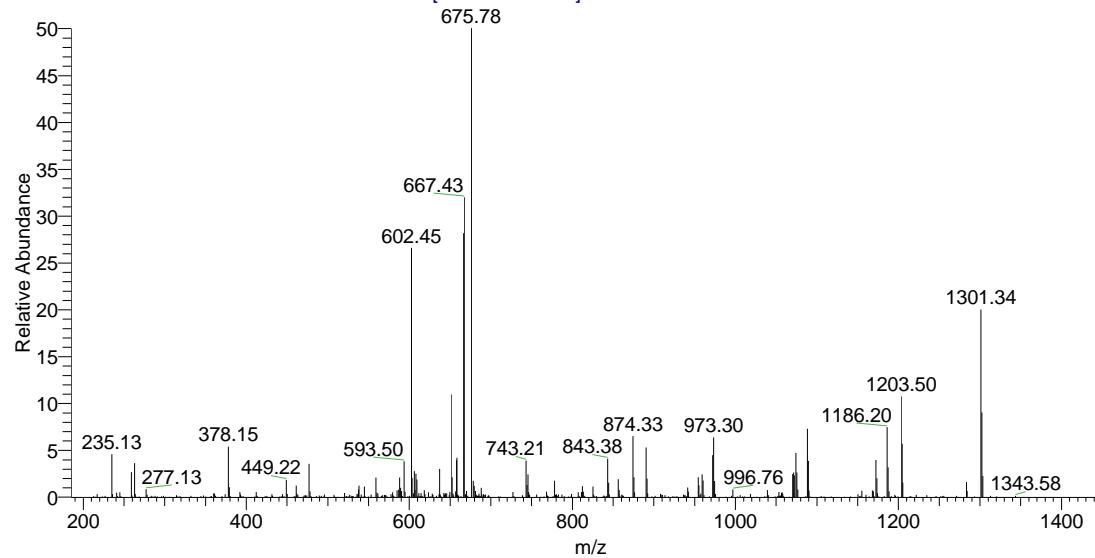
070403_sm4015_18 #7129 RT: 45.08 AV: 1 NL: 3.90E2
T: ITMS + c NSI d sa Full ms2 672.70@etd150.00 [50.00-2000.00]



(E)DFDVEHFpSDEE(T) – Pol III RPB 6
V8 – LTQ-FT (CID)
Mascot Score: 62



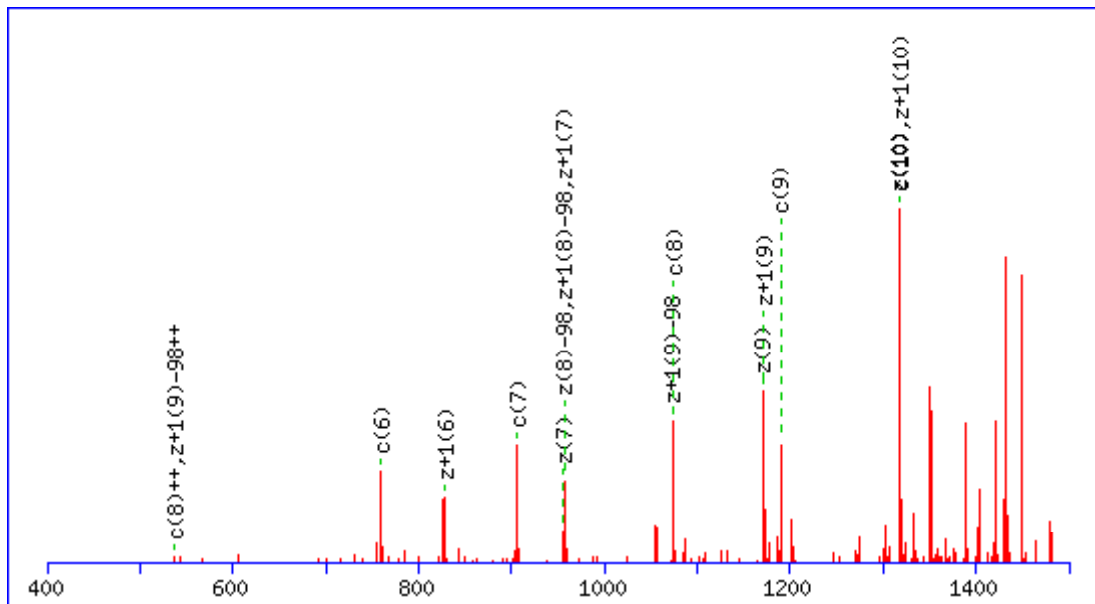
070404_sm4015_15 #4479 RT: 70.25 AV: 1 NL: 2.47E4
 T: ITMS + c NSI d w Full ms2 724.75@cid35.00 [185.00-1460.00]



(E)DFDVEHFpSDEE(T) – Pol III RPB 6

V8 – LTQ (ETD)

Mascot Score: 57



070403_sm4015_14 #9287 RT: 61.70 AV: 1 NL: 2.40E3
T: ITMS + c NSI d sa Full ms2 725.03@etd150.00 [50.00-2000.00]

