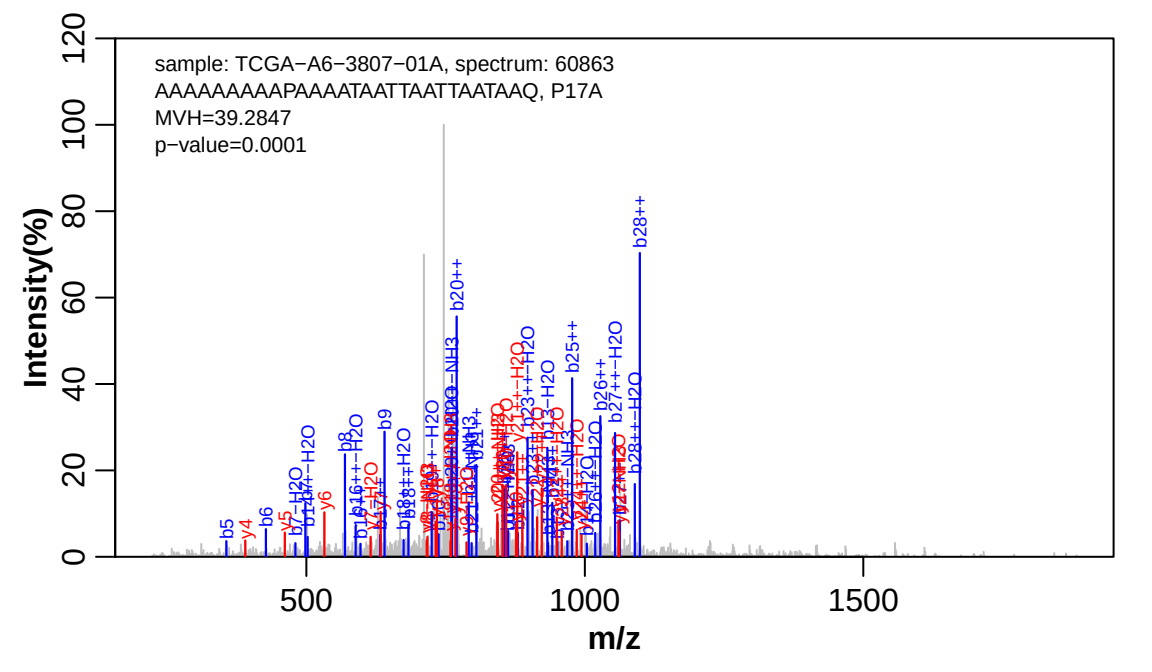
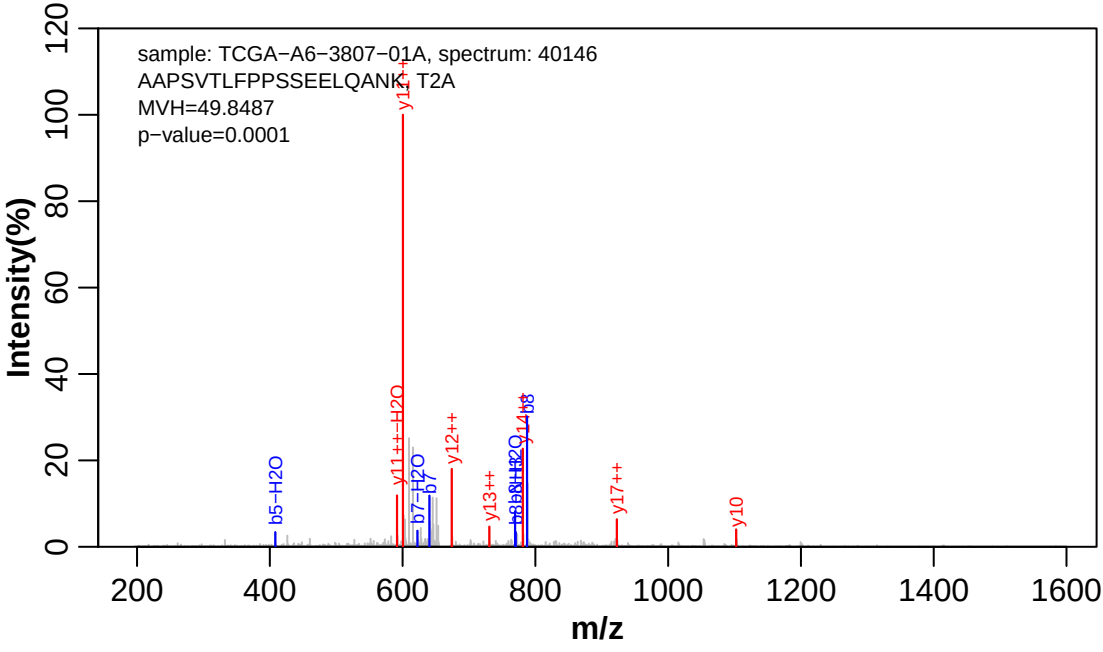
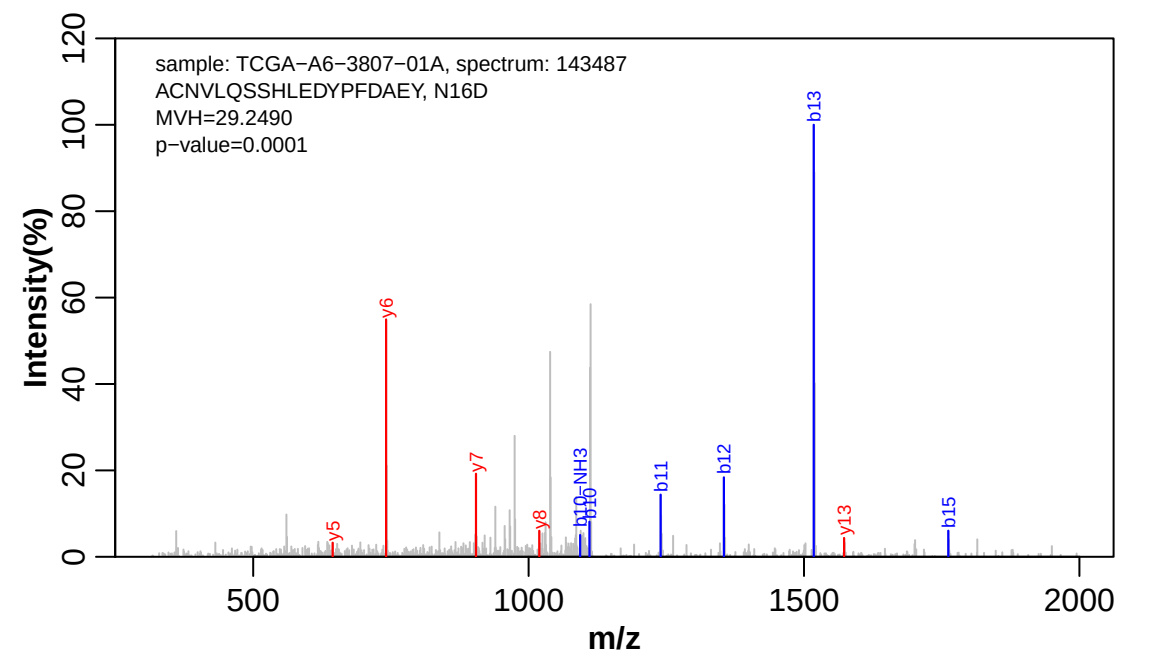
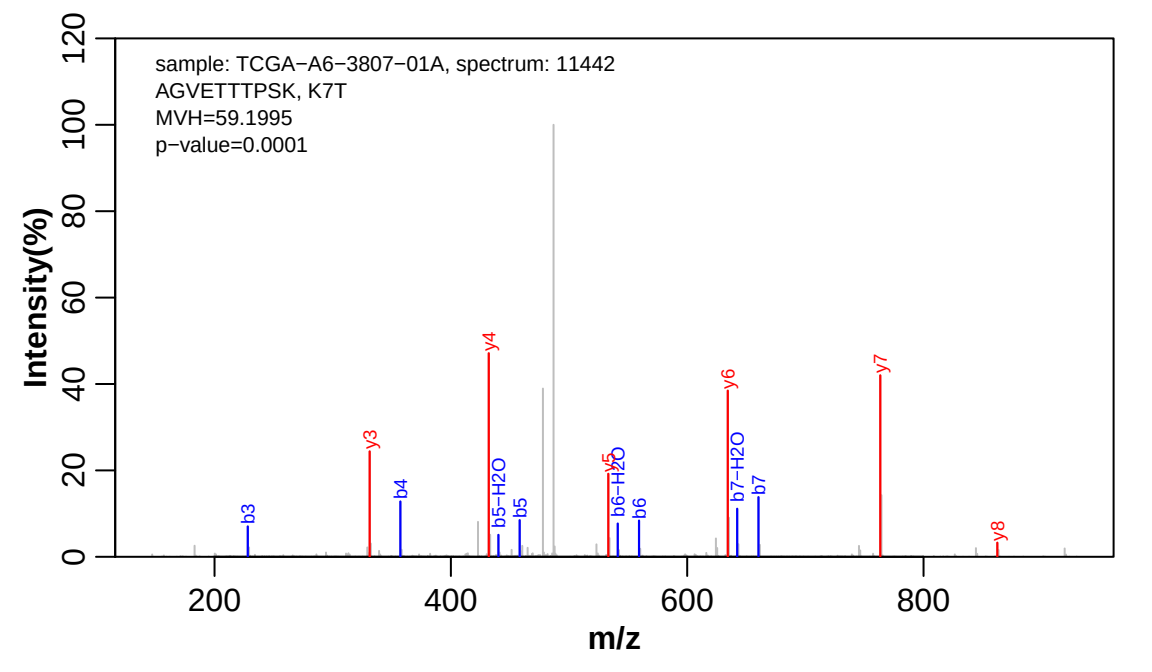
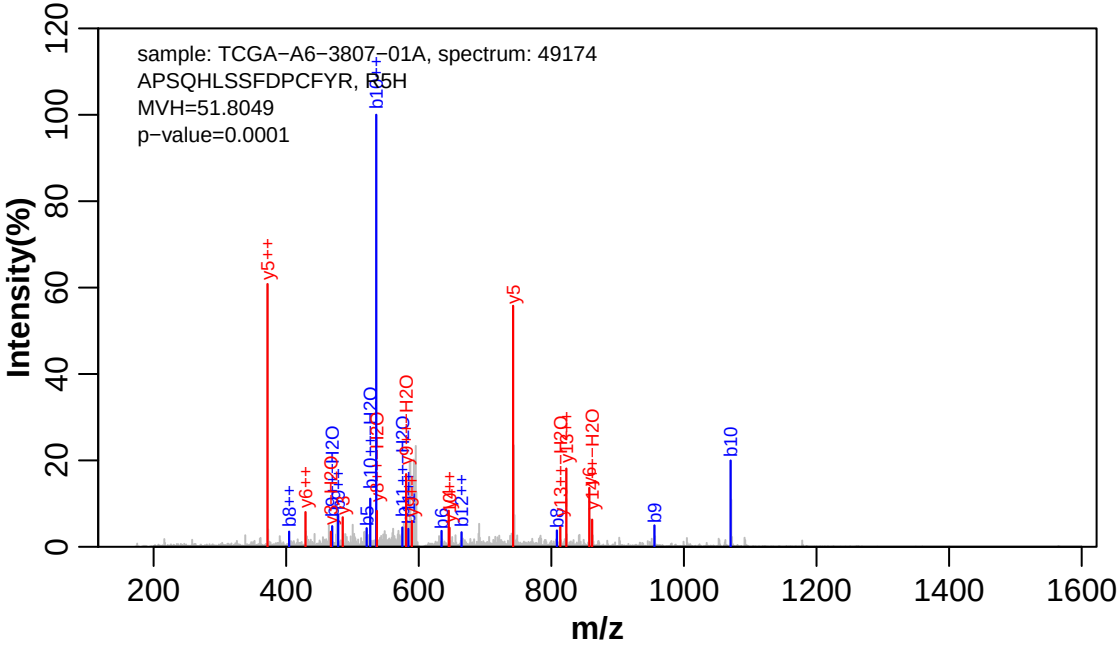
Supplemental Fig S5: Annotated spectra for peptide spectrum matches identified based on MVH score in the colorectal cancer study.

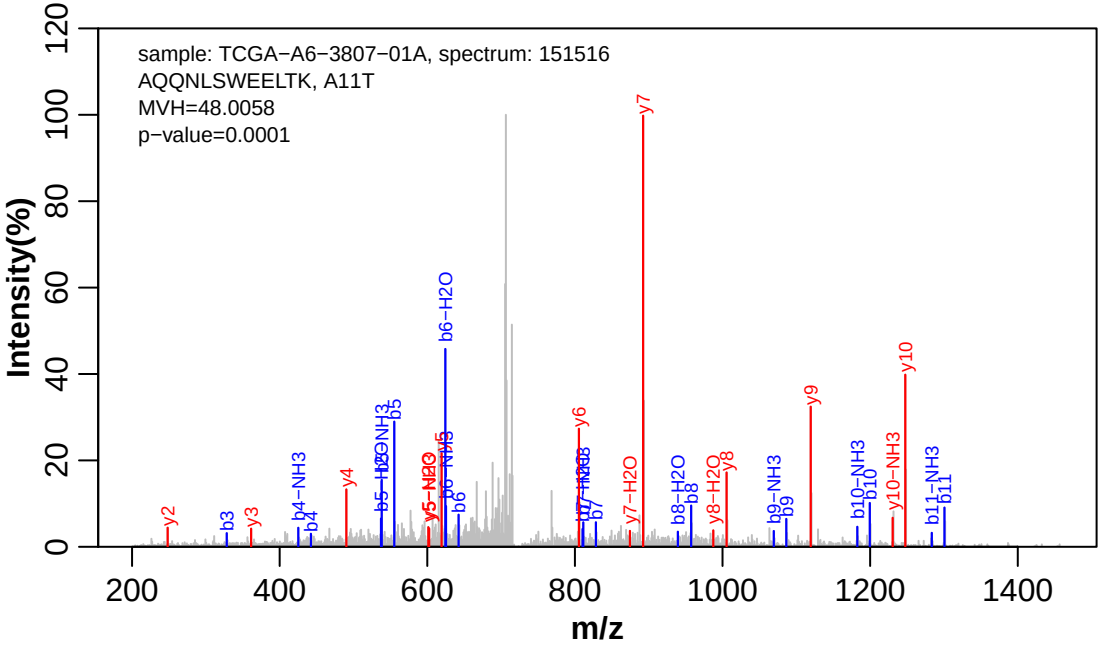

sample: TCGA−A6−3807−01A, spectrum: 60863
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=39.2847
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5
y4
b6
y5
b7++−H2O
y6
b8
b16++−H2O
b9
y7++
y7++−H2O
b18++−H2O
b20++
b20++−NH3
b25++
b26++
b27++−H2O
b28++
b28++−H2O

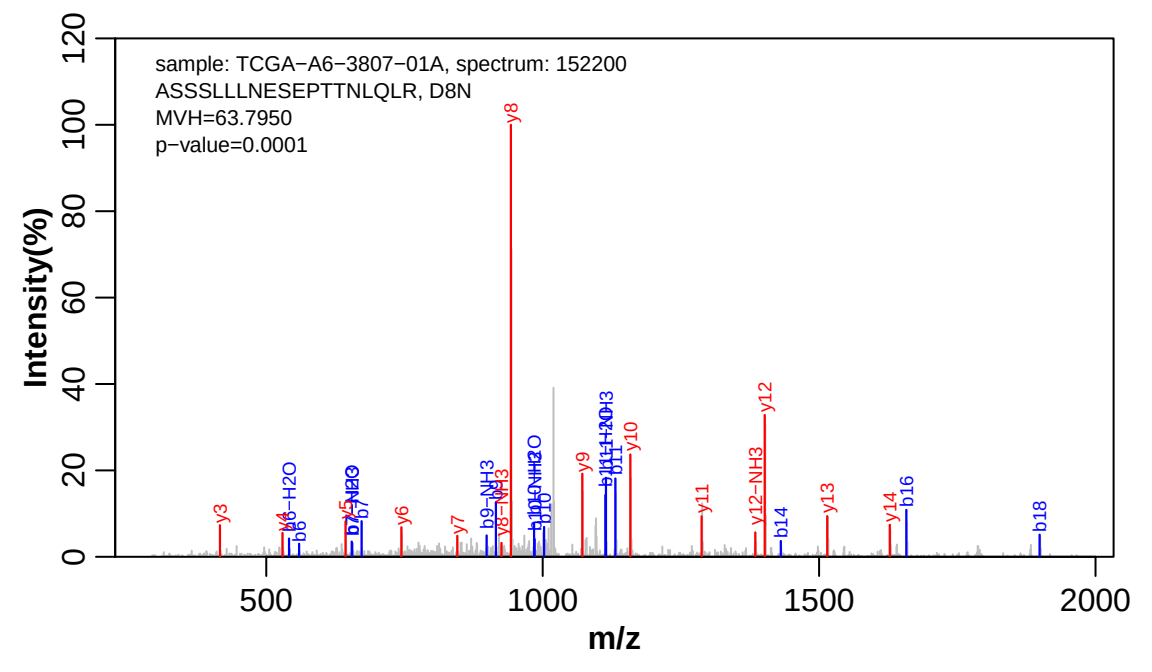

sample: TCGA−A6−3807−01A, spectrum: 40146
AAPSVTLFPPSSEELQANK, T2A
MVH=49.8487
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y11++
y11++−H2O
b5−H2O
b7−H2O
b7
y12++
y13++
y14++
b8
y17++
y10

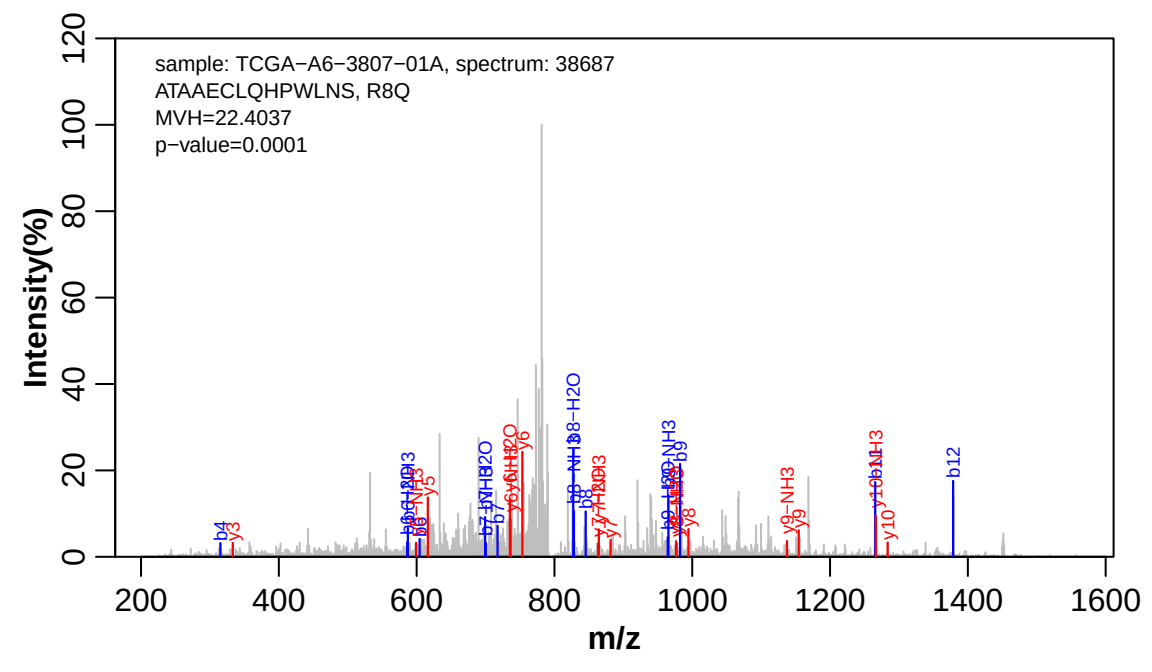

sample: TCGA−A6−3807−01A, spectrum: 143487
ACNVLQSSHLEDYPFDAEY, N16D
MVH=29.2490
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
y6
y7
y8
b10-NH3
b10
b11
b12
b13
y13
b15

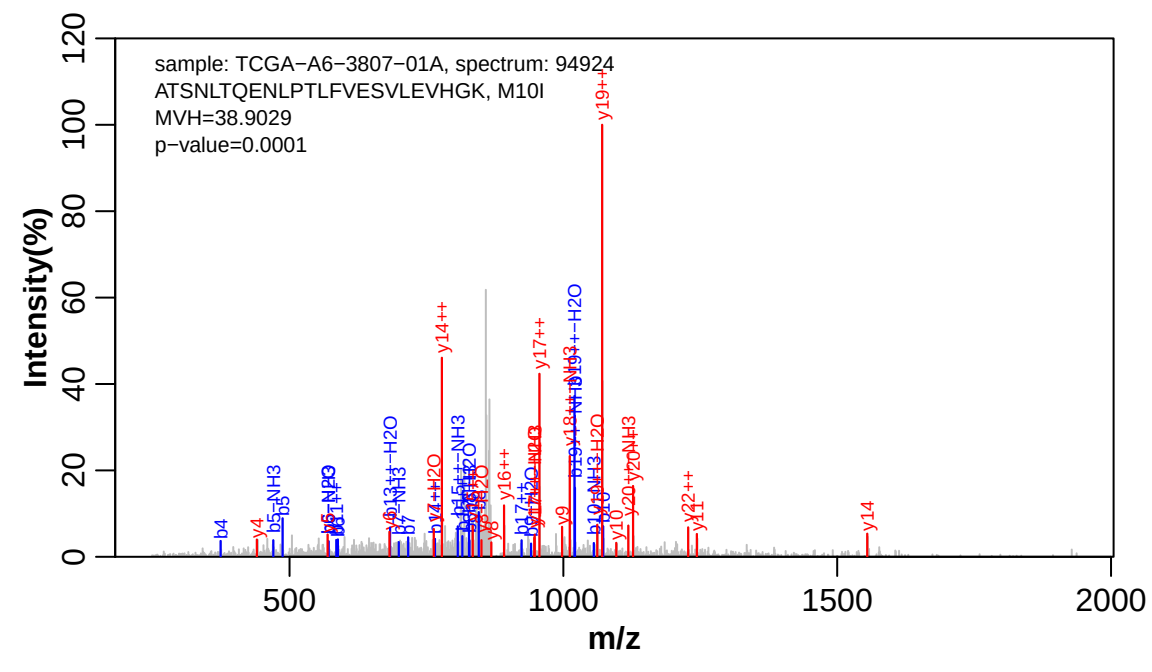

sample: TCGA−A6−3807−01A, spectrum: 11442
AGVETTTPSK, K7T
MVH=59.1995
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

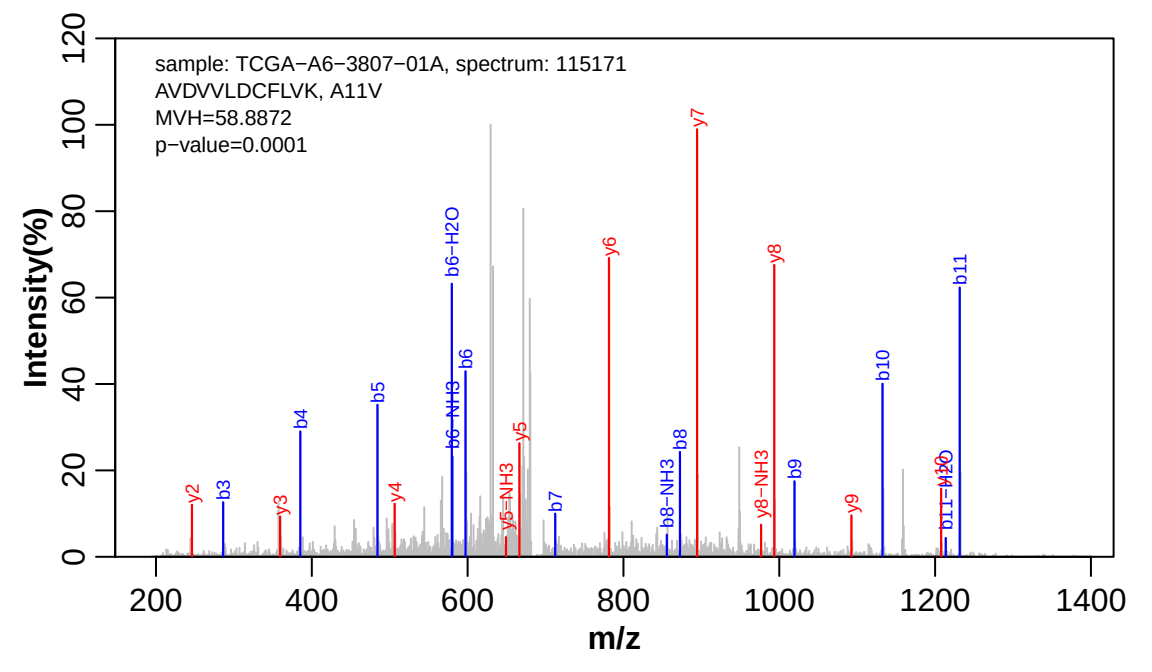

sample: TCGA−A6−3807−01A, spectrum: 49174
APSQHLSSFDPCFYR, R5H
MVH=51.8049
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++
y5++
y5
b10
b9
b8++
y6++
b12++
y7++ −H2O

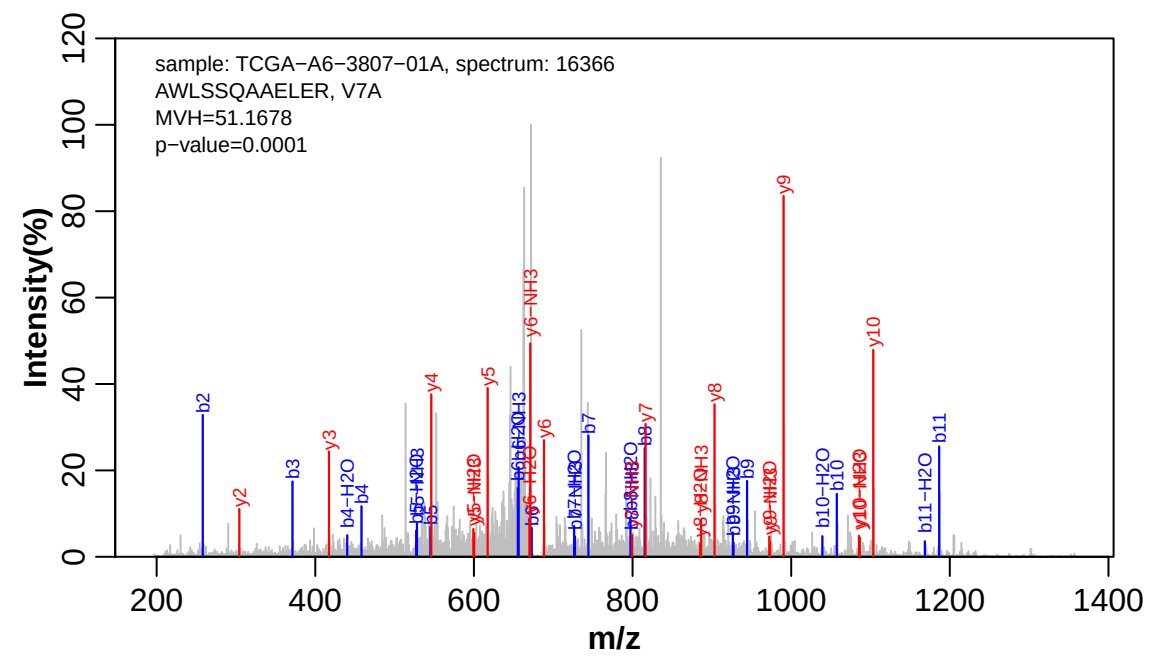

sample: TCGA−A6−3807−01A, spectrum: 151516
AQQNLSWEELTK, A11T
MVH=48.0058
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4−NH3
b4
y4
b5−H2O
b5−NH3
b5
y5−H2O
y5−NH3
b6−H2O
b6−NH3
b6
y6
b7−NH3
b7
y7−H2O
y7
b8−H2O
b8
y8−H2O
y8
b9−NH3
b9
y9
b10−NH3
b10
y10−NH3
y10
b11−NH3
b11

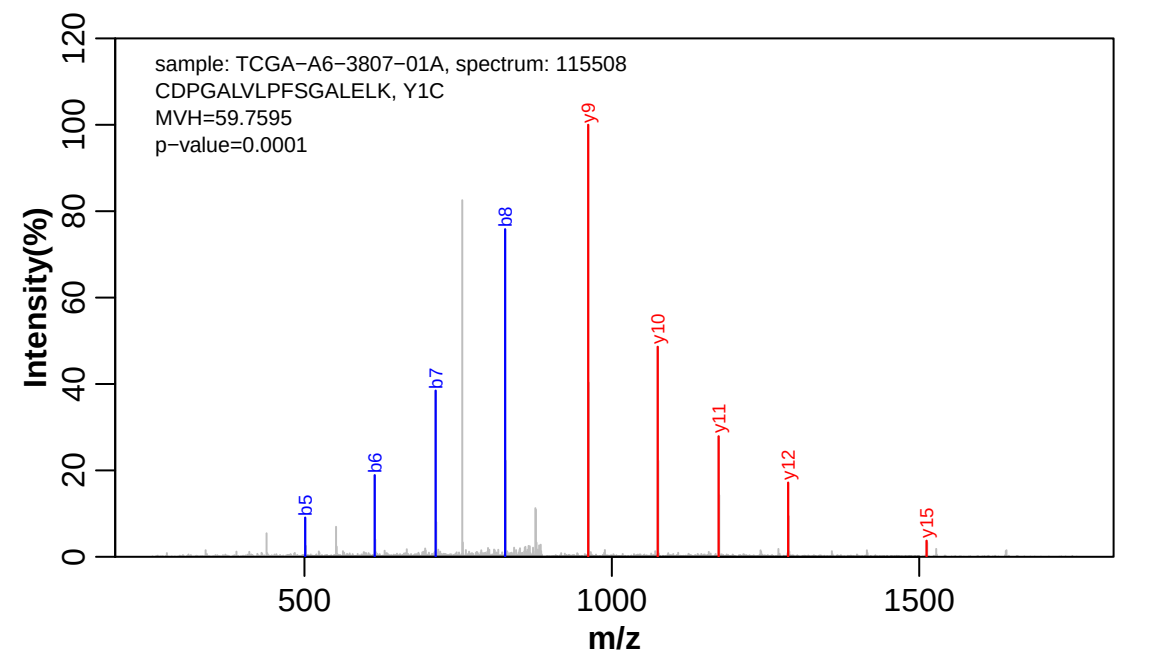

sample: TCGA−A6−3807−01A, spectrum: 152200
ASSSLLLNESEPTTNLQLR, D8N
MVH=63.7950
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
b6
b6−H2O
y5
b7
y6
y7
b9−NH3
y8−NH3
b10
y9
b11
y10
y11
y12
y12−NH3
b14
y13
y14
b16
b18

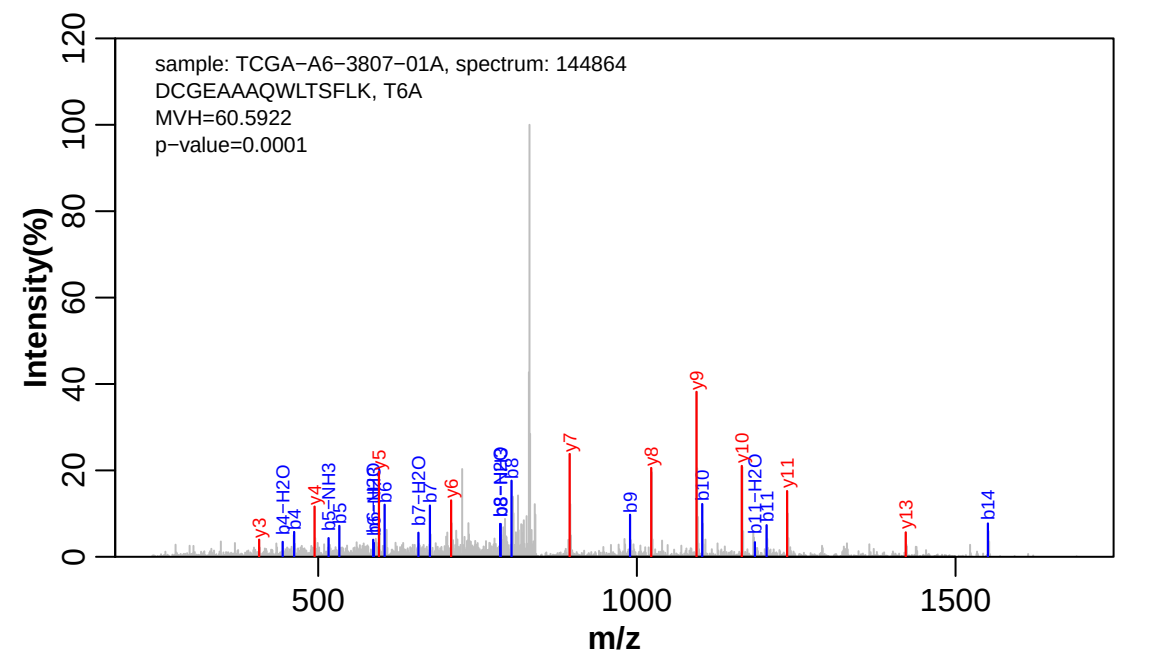

sample: TCGA−A6−3807−01A, spectrum: 38687
ATAAECLQHPWLNS, R8Q
MVH=22.4037
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
y3
y5
y6
b8−NH3
b8−H2O
y7
y8
b9
y9−NH3
y9
y10−NH3
b12

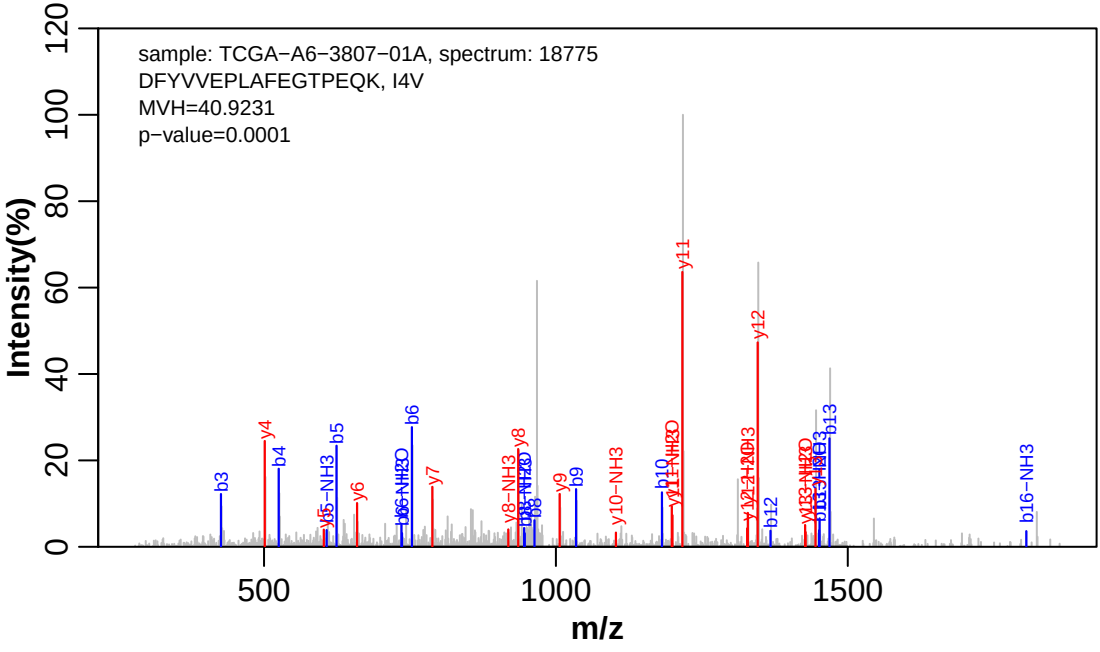

sample: TCGA−A6−3807−01A, spectrum: 94924
ATSNLTQENLPTLFVESVLEVHGK, M10I
MVH=38.9029
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y4
b5−NH3
b5
y14++
y16++
y17++
y19++
y14
y22++

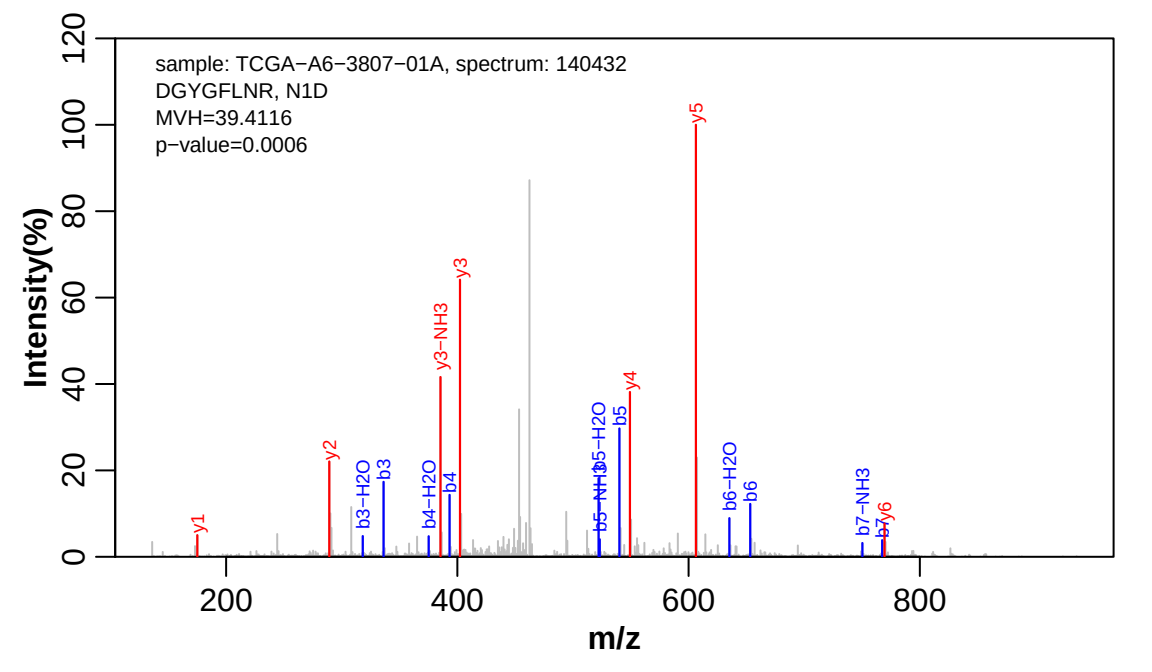

sample: TCGA−A6−3807−01A, spectrum: 115171
AVDVVLDCFLVK, A11V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
y2
b3
y3
b4
b5
y4
b6−H2O
b6−NH3
b6
y5
y5−NH3
b7
y6
b8−NH3
b8
y7
y8−NH3
y8
b9
y9
b10
b11−H2O
b11
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

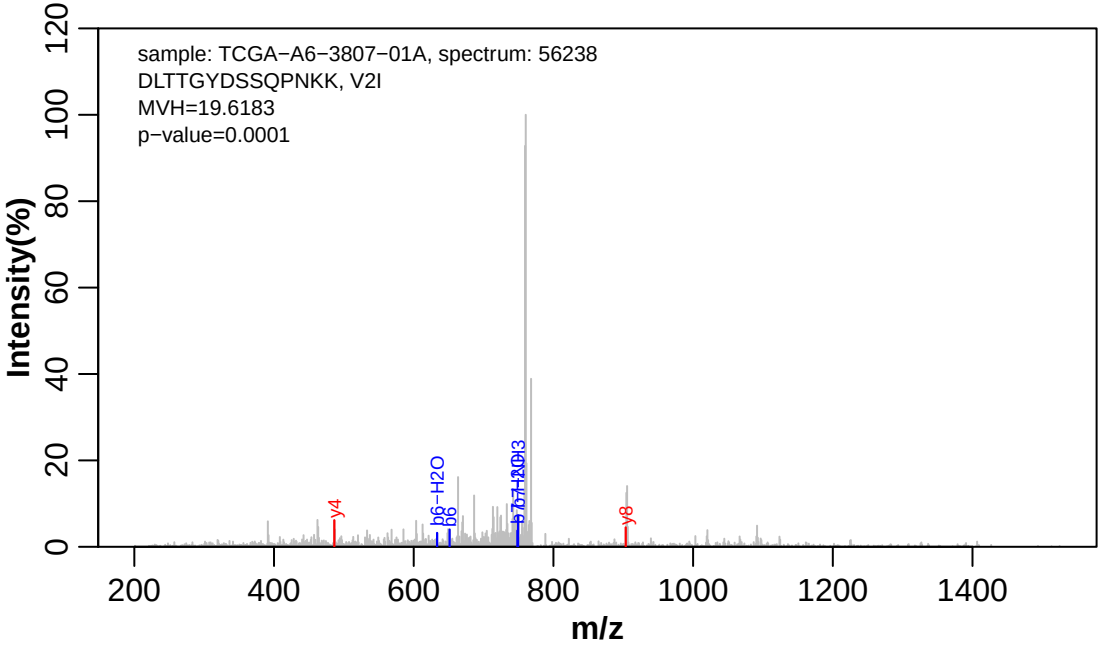

sample: TCGA−A6−3807−01A, spectrum: 16366
AWLSSQAAELER, V7A
MVH=51.1678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y6−NH3
y6
b7
y7
y8
y9
y10
b10−H2O
b10
b11−H2O
b11

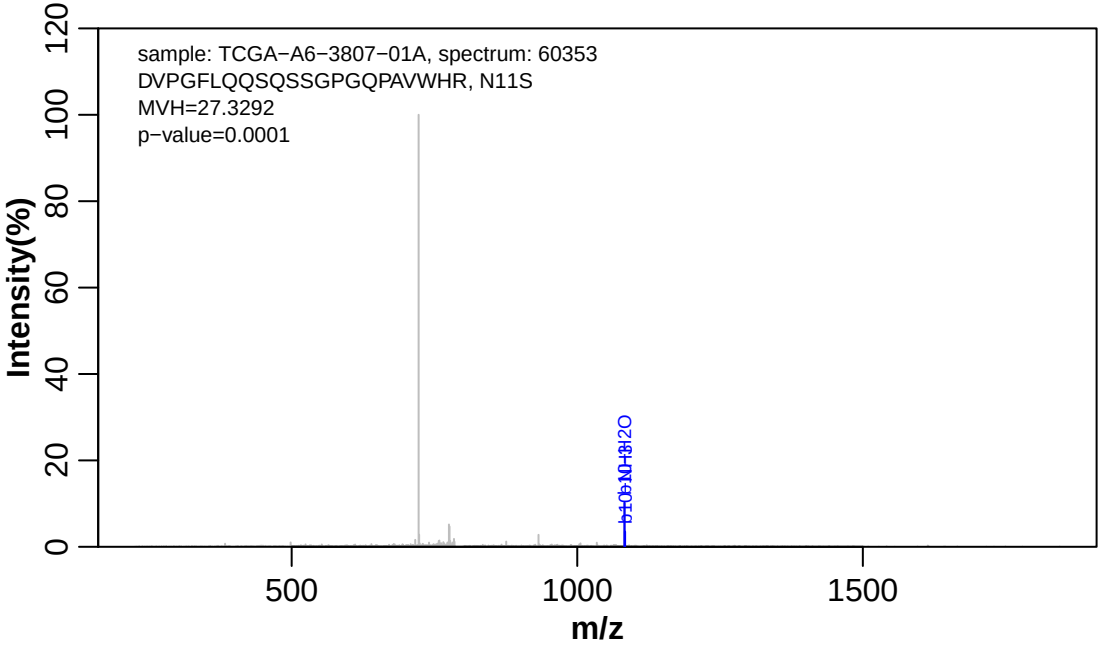

sample: TCGA−A6−3807−01A, spectrum: 115508
CDPGALVLPFSGALELK, Y1C
MVH=59.7595
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

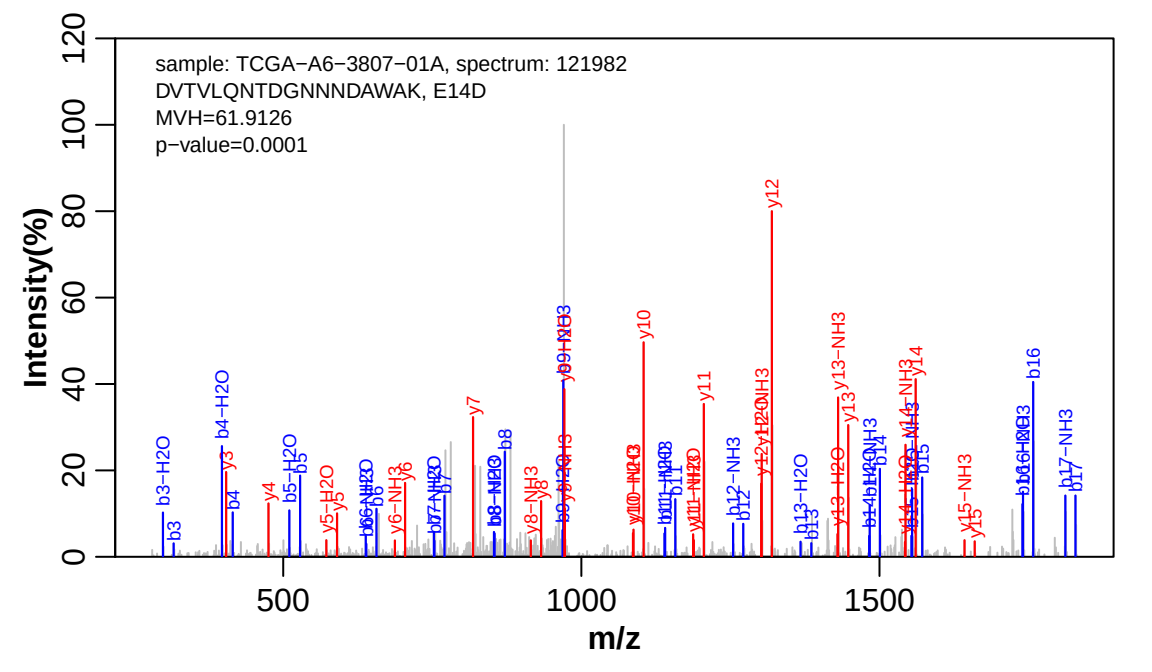

sample: TCGA−A6−3807−01A, spectrum: 144864
DCGEAAAQWLTSFLK, T6A
MVH=60.5922
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b4−H2O
b4
y4
b5−NH3
b5
b6
y5
b7−H2O
b7
y6
b8
y7
b9
y8
y9
b10
y10
b11−H2O
b11
y11
y13
b14

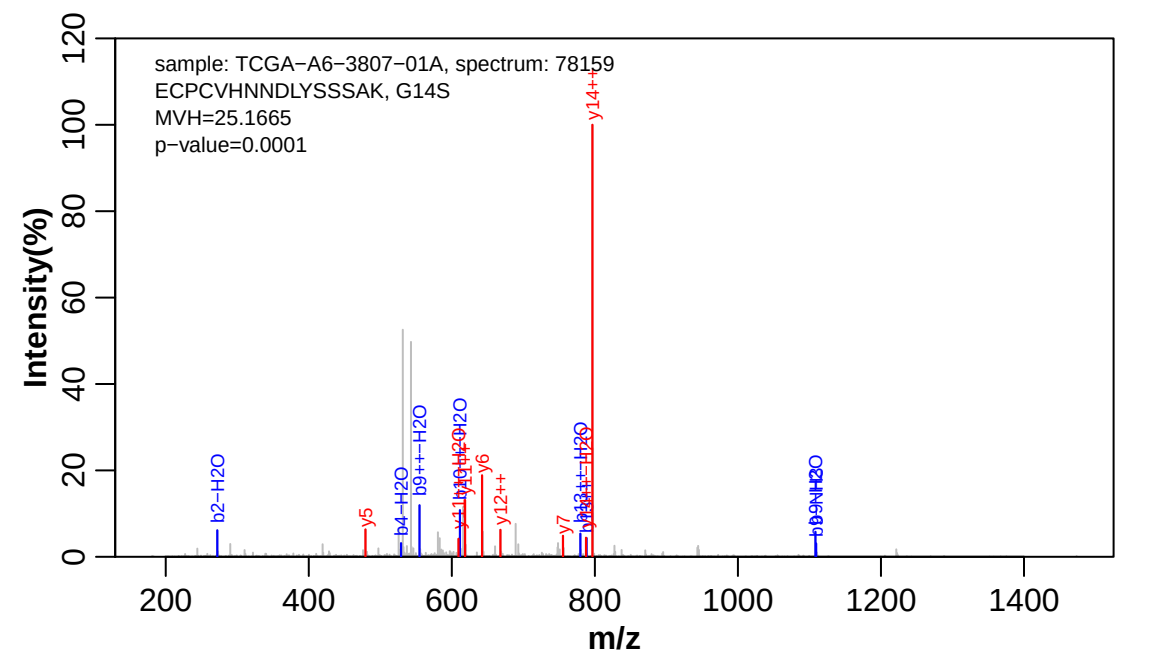

sample: TCGA−A6−3807−01A, spectrum: 18775
DFYVVEPLAFEGTPEQK, I4V
MVH=40.9231
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5−NH3
b5
y6
b6
y7
y8−NH3
y8
y9
b9
y10−NH3
b10
y11
y12
b12
b13
b16−NH3

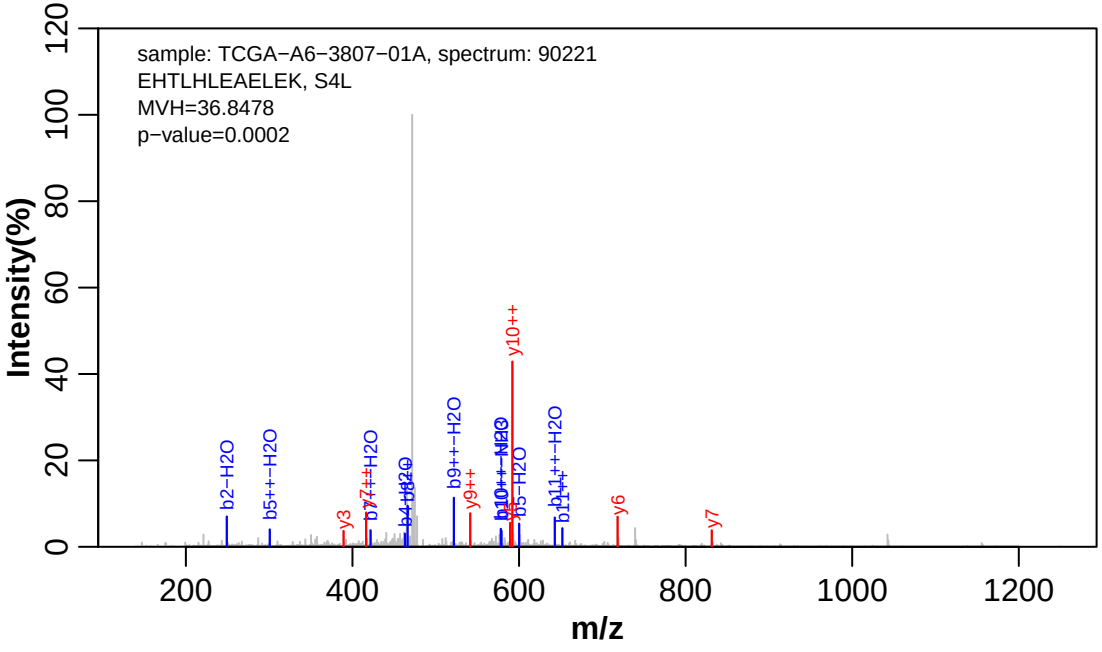

sample: TCGA−A6−3807−01A, spectrum: 140432
DGYGFLNR, N1D
MVH=39.4116
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−NH3
b7
y6

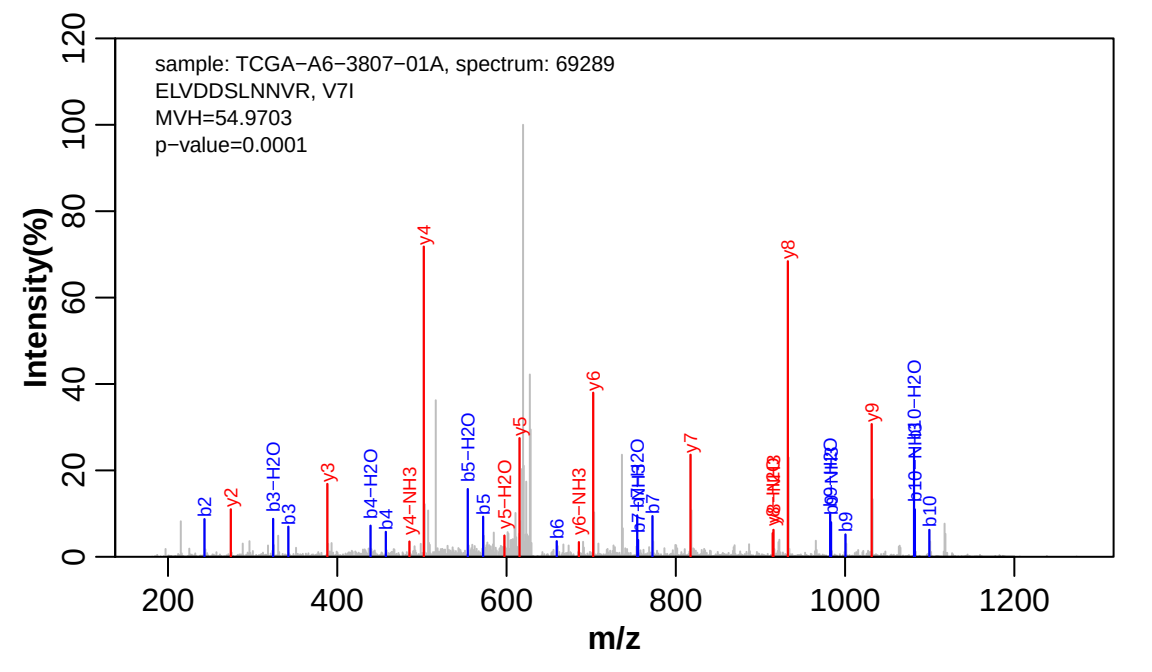

sample: TCGA−A6−3807−01A, spectrum: 56238
DLTTGYDSSQPNKK, V2I
MVH=19.6183
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y4
b6−H2O
b6
y8

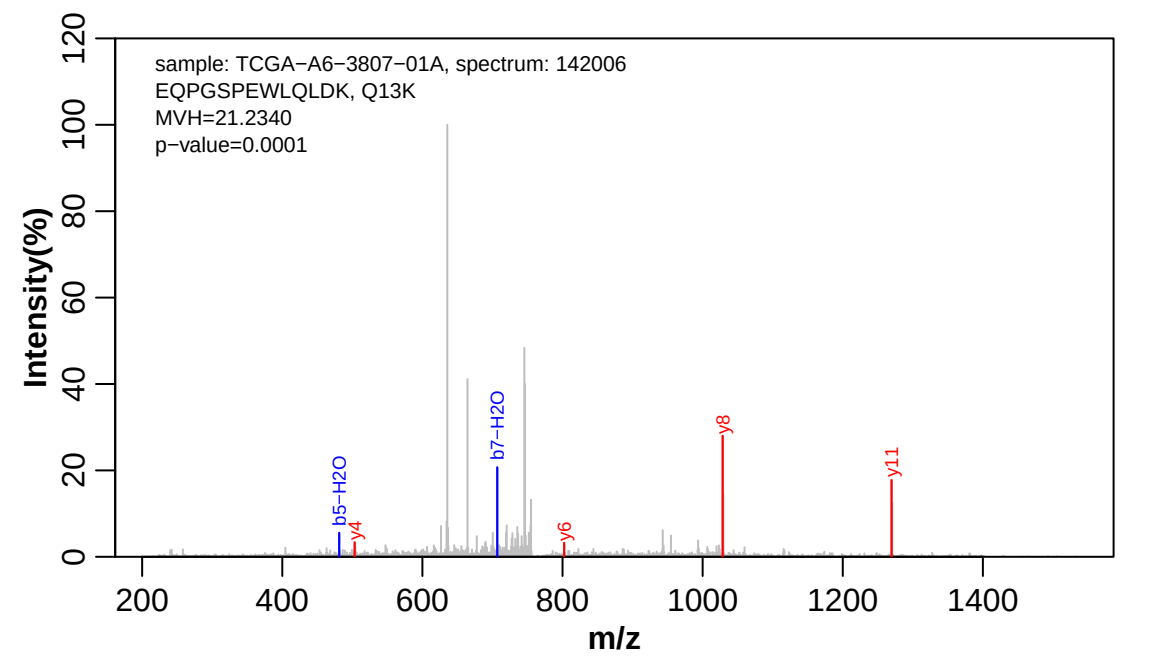

sample: TCGA−A6−3807−01A, spectrum: 60353
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=27.3292
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

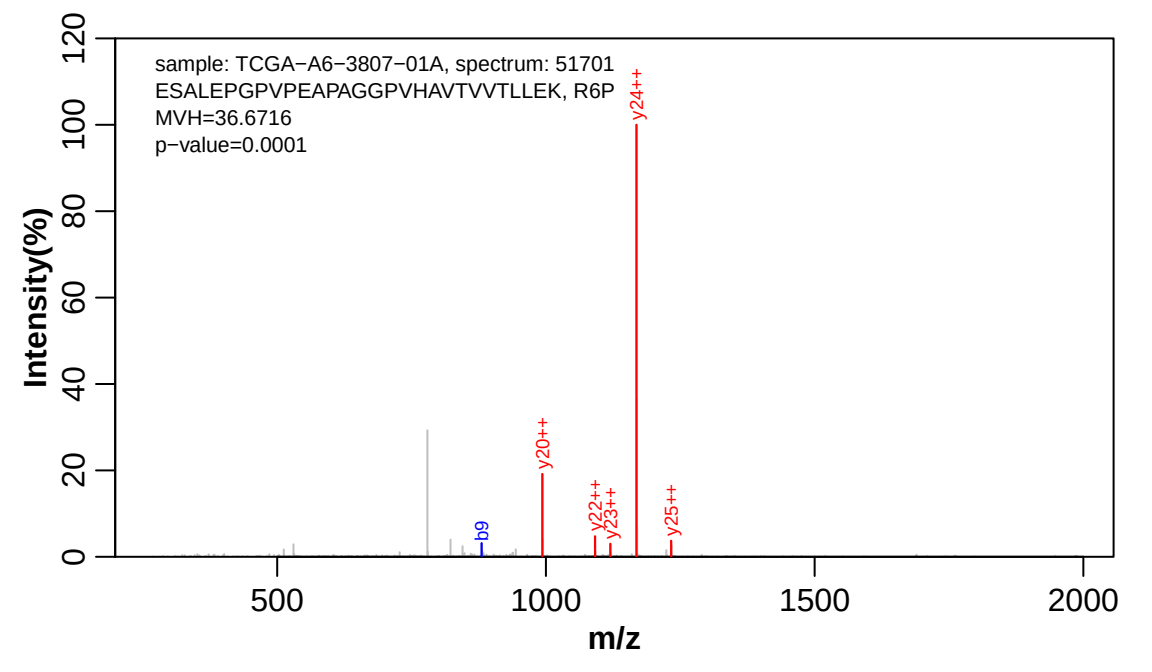

sample: TCGA−A6−3807−01A, spectrum: 121982
DVTVLQNTDGNNNDAWAK, E14D
MVH=61.9126
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b3
b4−H2O
y3
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−NH3
b6
y6−NH3
y6
b7−H2O
b7
y7
b8
b8−NH3
y8−NH3
y8
y9
y10
b11
y11
b12−NH3
b12
y12
y12−H2O
y12−NH3
b13−H2O
b13
y13−H2O
y13
y13−NH3
b14
y14
y15−NH3
y15
b16
b17−NH3
b17

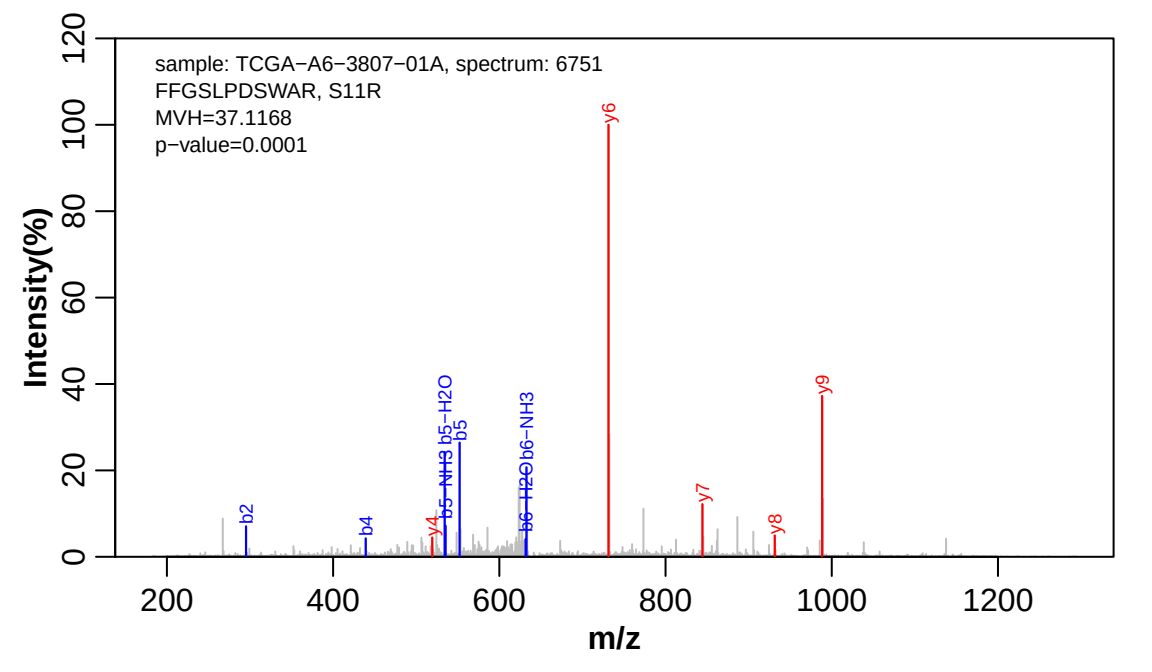

sample: TCGA−A6−3807−01A, spectrum: 78159
ECPCVHNNDLYSSSAK, G14S
MVH=25.1665
p−value=0.0001
Intensity(%)
m/z
b2−H2O
y5
b4−H2O
b9++−H2O
y6
y12++
y7
y14++

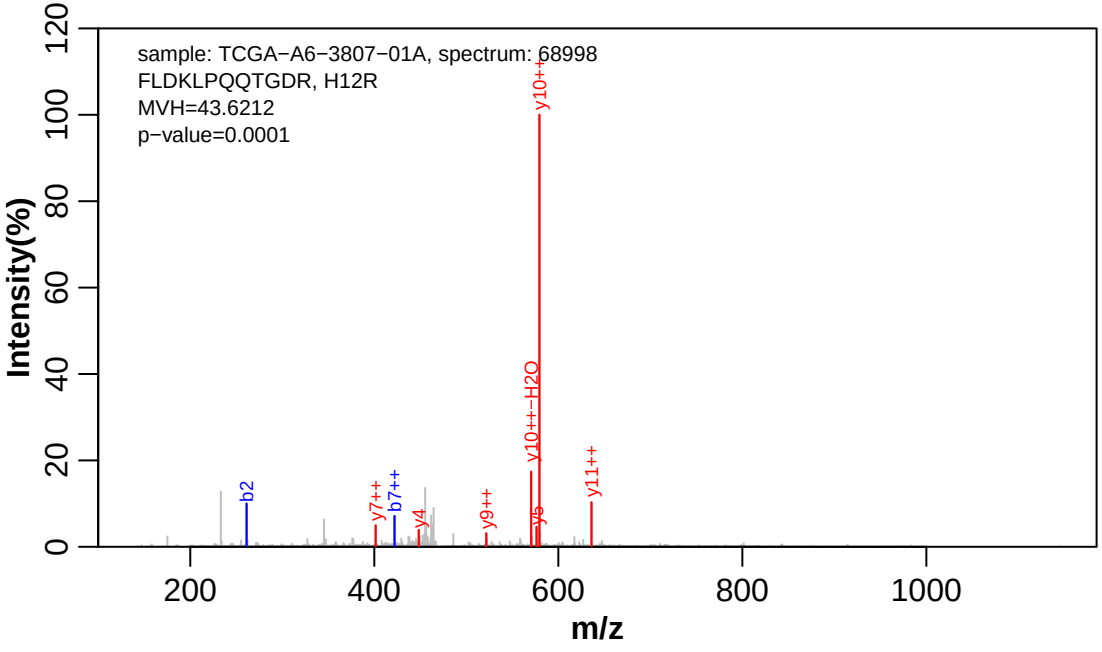

sample: TCGA−A6−3807−01A, spectrum: 90221
EHTLHLEAELEK, S4L
MVH=36.8478
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b5++−H2O
y3
b7++−H2O
b9++−H2O
y9++
y10++
b5−H2O
b11++−H2O
y6
y7

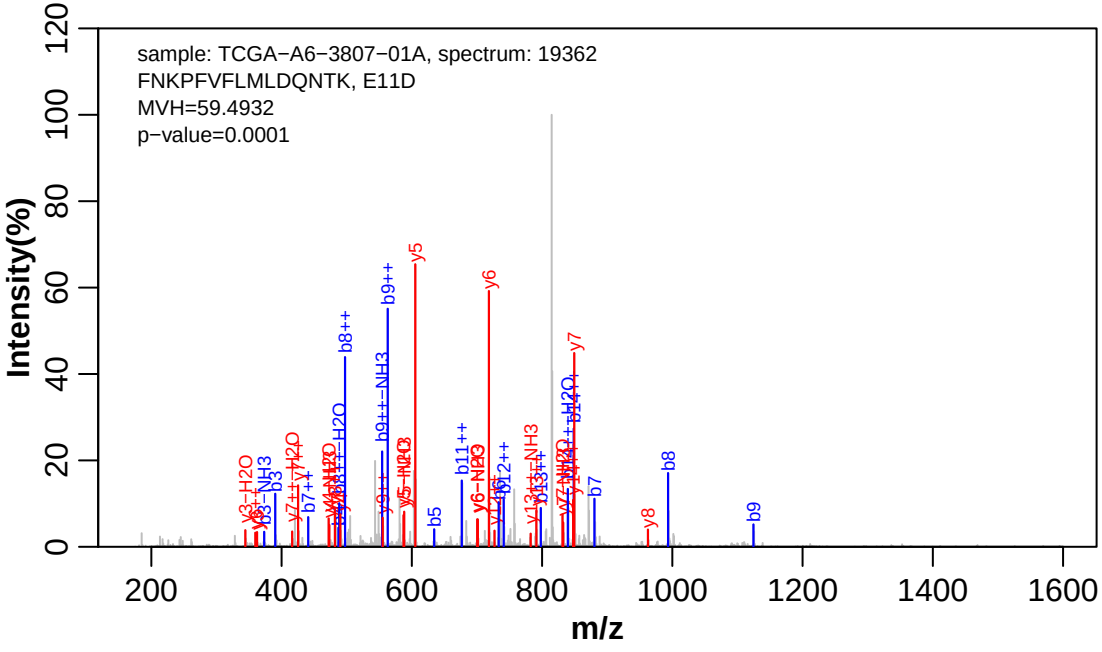

sample: TCGA−A6−3807−01A, spectrum: 69289
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5−H2O
y5
b6
y6−NH3
y6
y7
y8
b9
y9
b10−H2O
b10

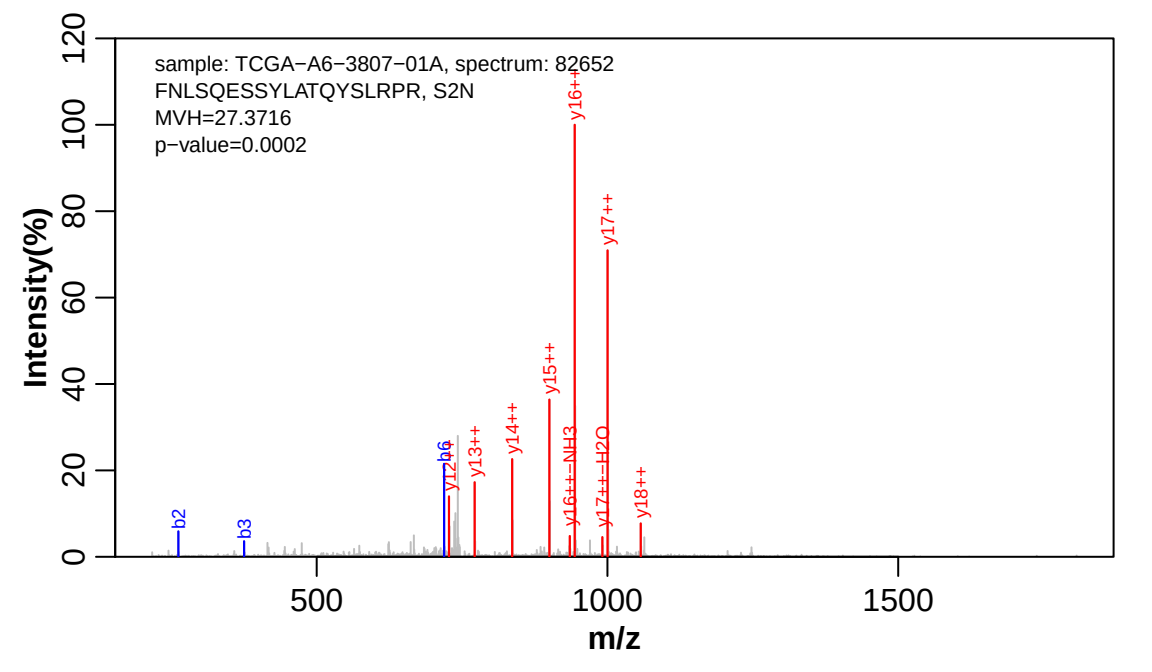

sample: TCGA−A6−3807−01A, spectrum: 142006
EQPGSPEWLQLDK, Q13K
MVH=21.2340
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
y6
y8
y11

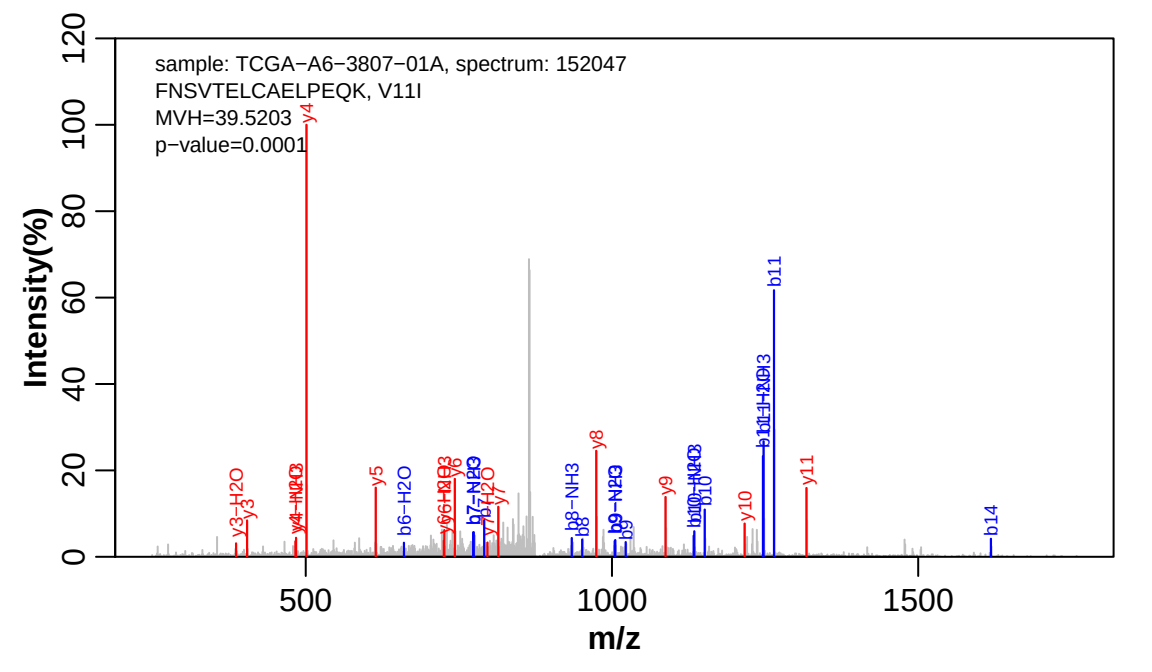

sample: TCGA−A6−3807−01A, spectrum: 51701
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=36.6716
p−value=0.0001
y24++
y20++
y22++
y23++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

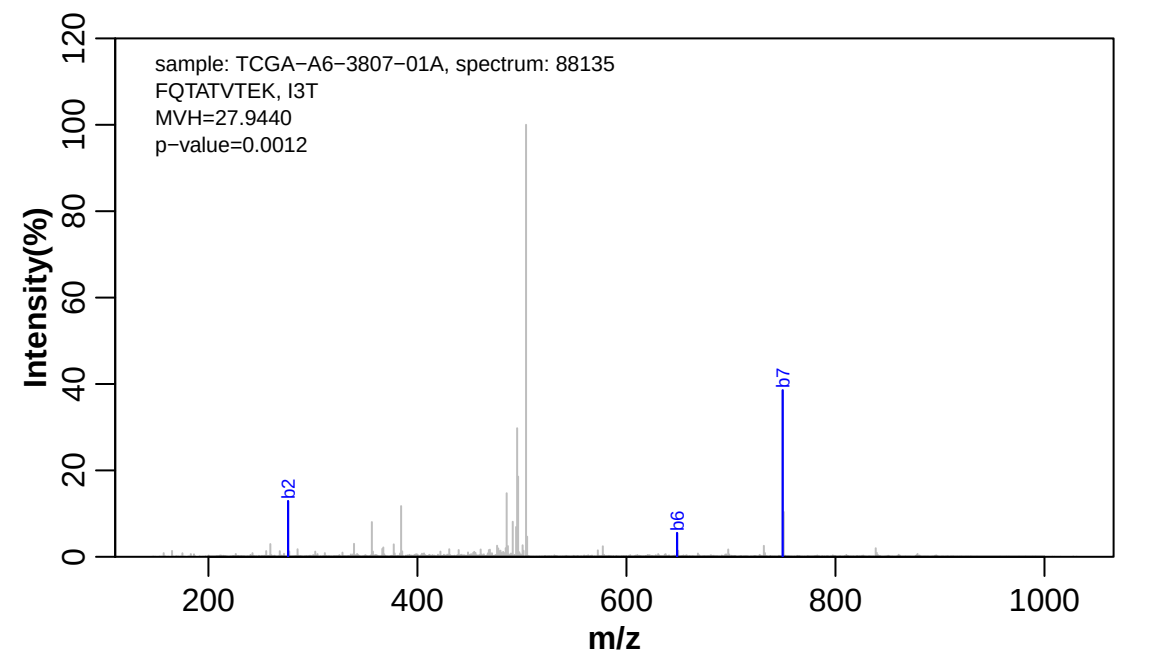

sample: TCGA−A6−3807−01A, spectrum: 6751
FFGSLPDSWAR, S11R
MVH=37.1168
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

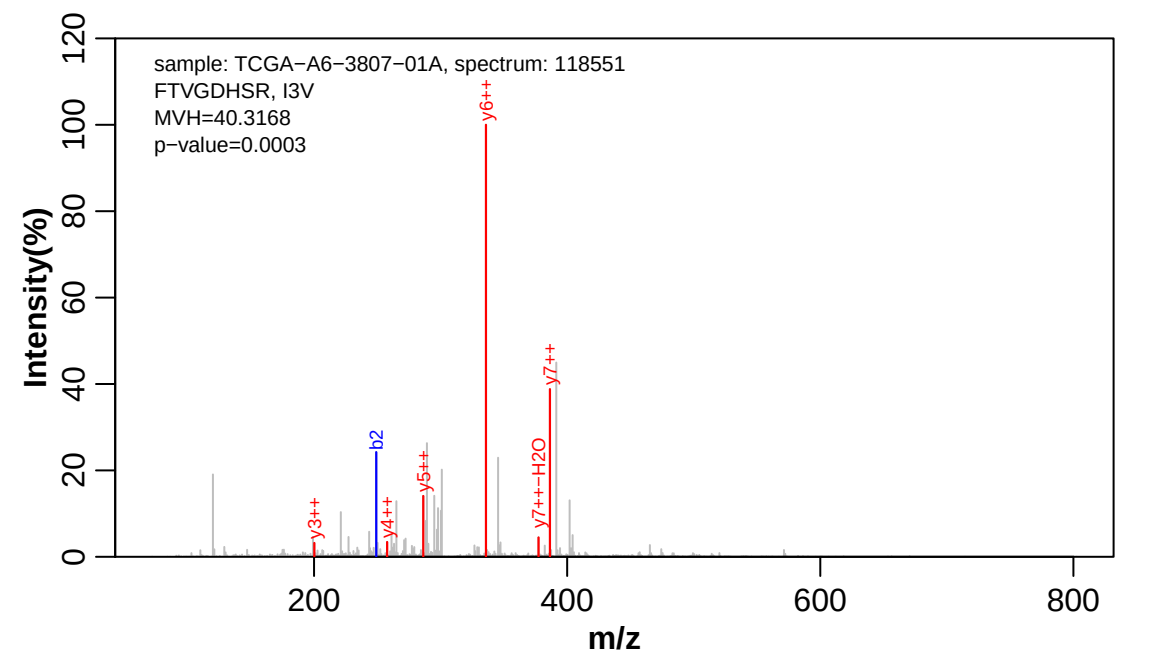

sample: TCGA−A6−3807−01A, spectrum: 68998
FLDKLPQQTGDR, H12R
MVH=43.6212
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

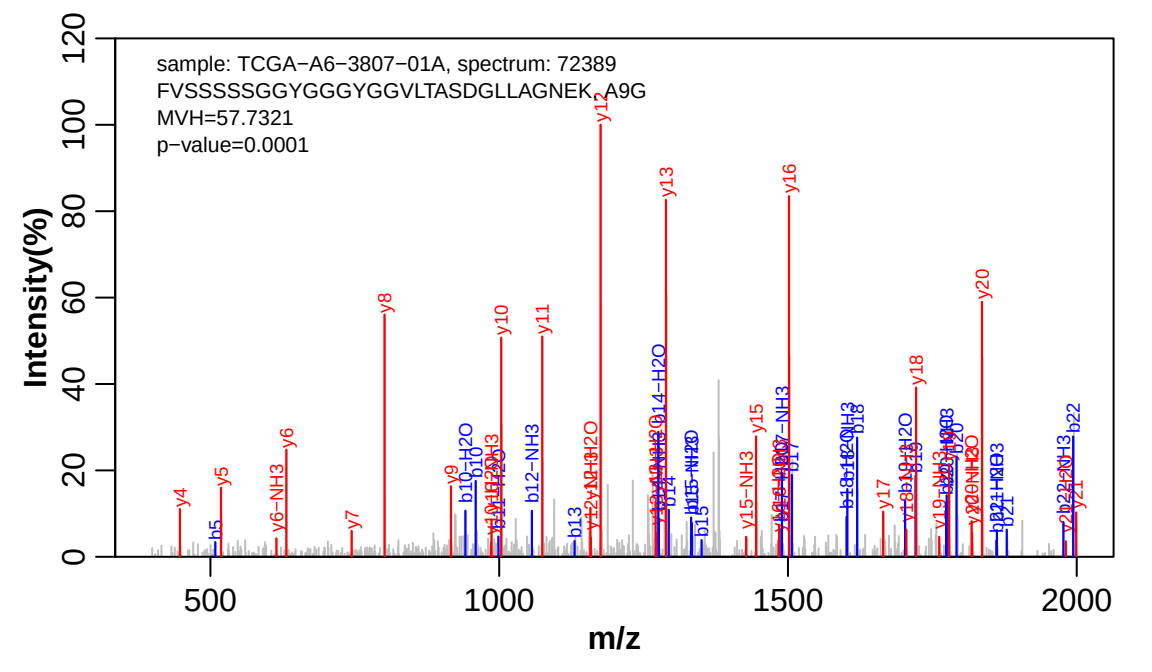

sample: TCGA−A6−3807−01A, spectrum: 19362
FNKPFVFLMLDQNTK, E11D
MVH=59.4932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b8++
b9++
b9++−NH3
b11++
b5
b7
b8
b9
y8
y6−NH3
y7−H2O
y7−NH3
b7++
b3
y3−H2O
y3−NH3

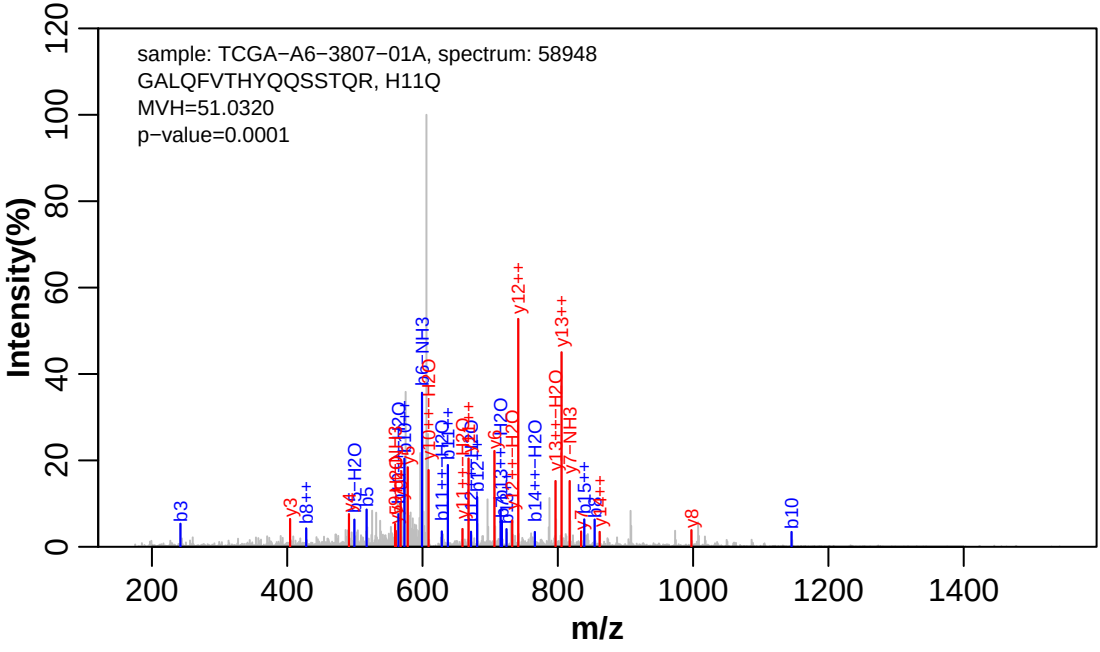

sample: TCGA−A6−3807−01A, spectrum: 82652
FNLSQESSYLATQYSLRPR, S2N
MVH=27.3716
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y12
b6
y13++
y14++
y15++
y16++−NH3
y16++
y17++−H2O
y17++
y18++

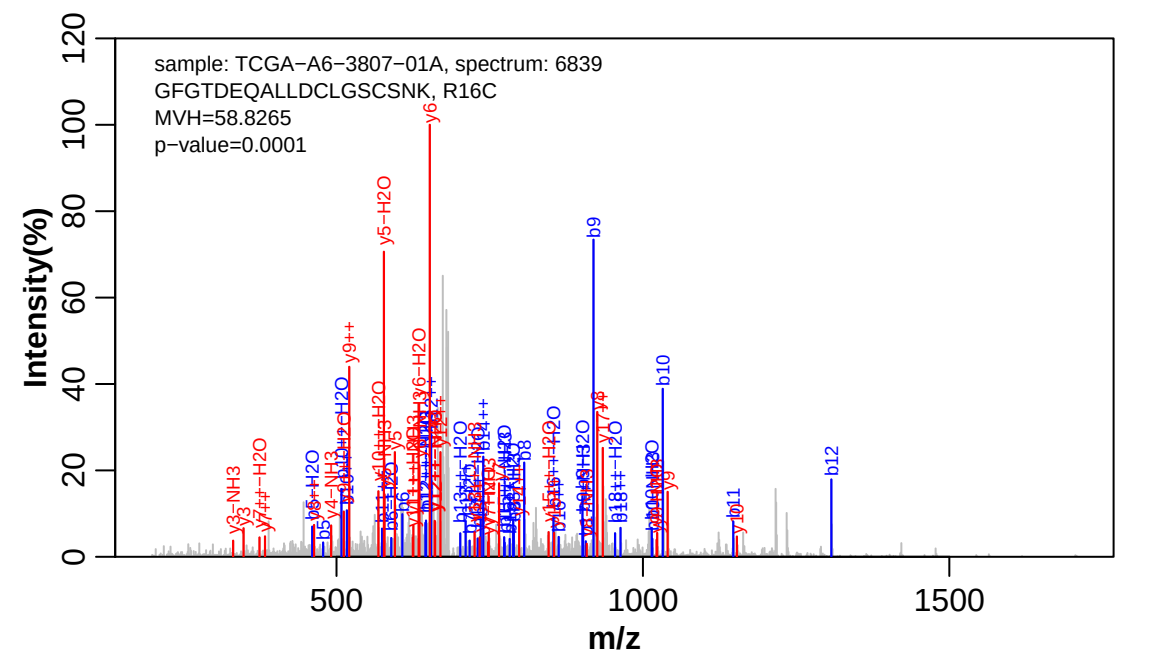

sample: TCGA−A6−3807−01A, spectrum: 152047
FNSVTELCAELPEQK, V11I
MVH=39.5203
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y8
y9
y10
y11
b11
b14
b6−H2O
b8−NH3
y3−H2O
y3

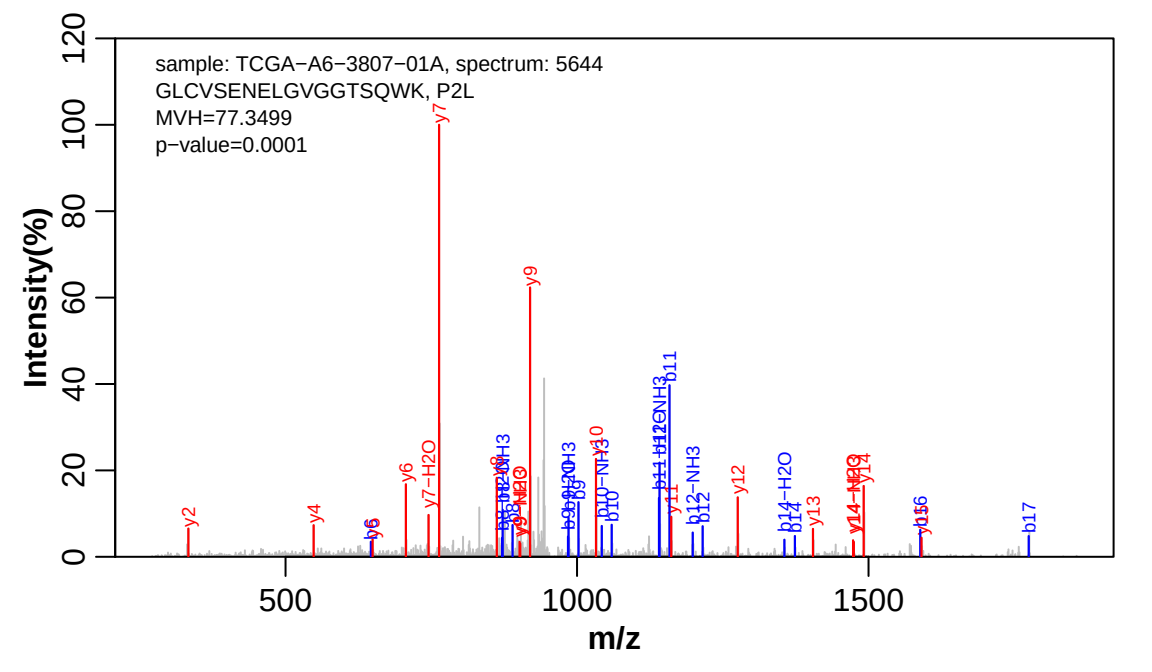

sample: TCGA−A6−3807−01A, spectrum: 88135
FQTATVTEK, I3T
MVH=27.9440
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
b2
b6
b7
200
400
600
800
1000
m/z

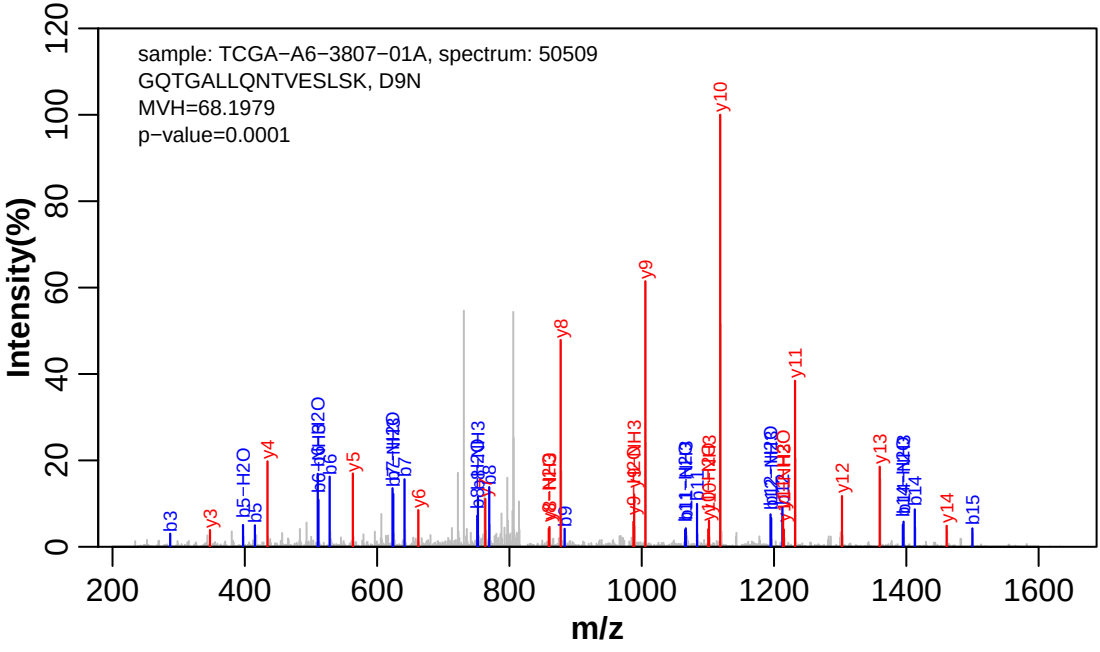

sample: TCGA−A6−3807−01A, spectrum: 118551
FTVGDHSR, I3V
MVH=40.3168
p−value=0.0003
y6++
y7++
b2
y5++
y3++
y4++
y7++−H2O
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z

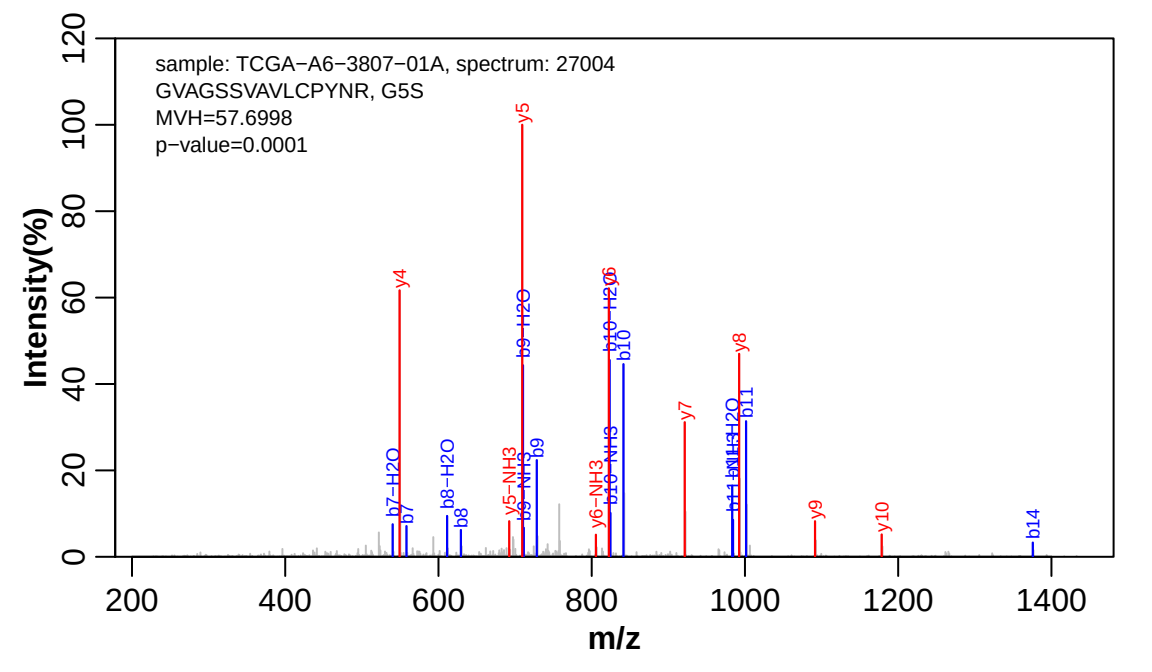

sample: TCGA−A6−3807−01A, spectrum: 72389
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=57.7321
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y13
y16
y8
y10
y11
y20
y18
y6
y4
y5
y6−NH3
y7
y9
b10
b11
b12−NH3
b13
y14−H2O
y15
y15−NH3
b15
b18
y17
b22
y21

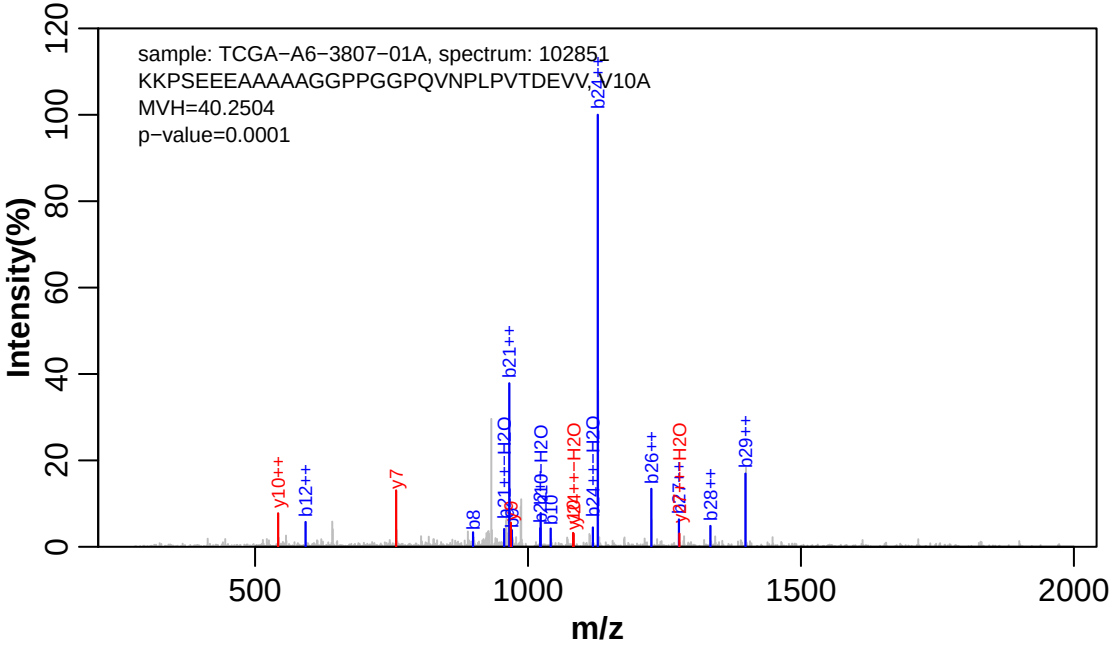

sample: TCGA−A6−3807−01A, spectrum: 58948
GALQFVTHYQQSSTQR, H11Q
MVH=51.0320
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b8++
b4−H2O
b5
y12++
y13++
b6−NH3
b6−H2O
y13++−H2O
y7−NH3
b14++−H2O
y8
b10

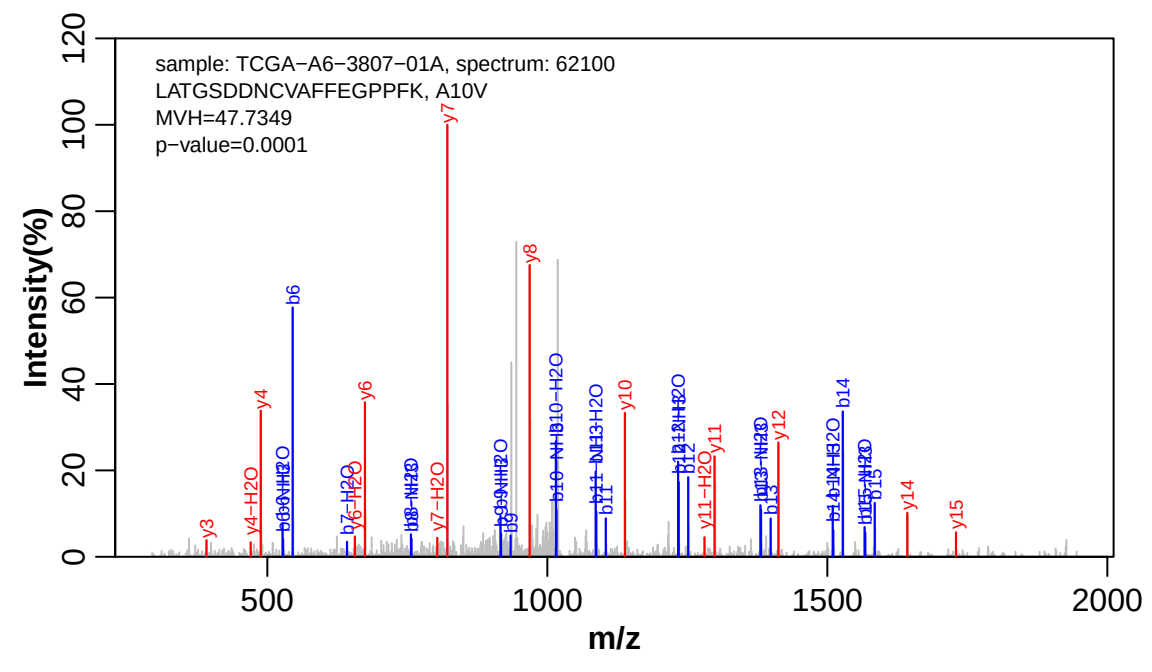

sample: TCGA−A6−3807−01A, spectrum: 6839
GFGTDEQALLDCLGSCSNK, R16C
MVH=58.8265
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y9++
b9
b10
b12
y7−H2O
b5++H2O
y4−NH3
y3−NH3
y3
y7++−H2O
b18++−H2O
y11
y10
b8

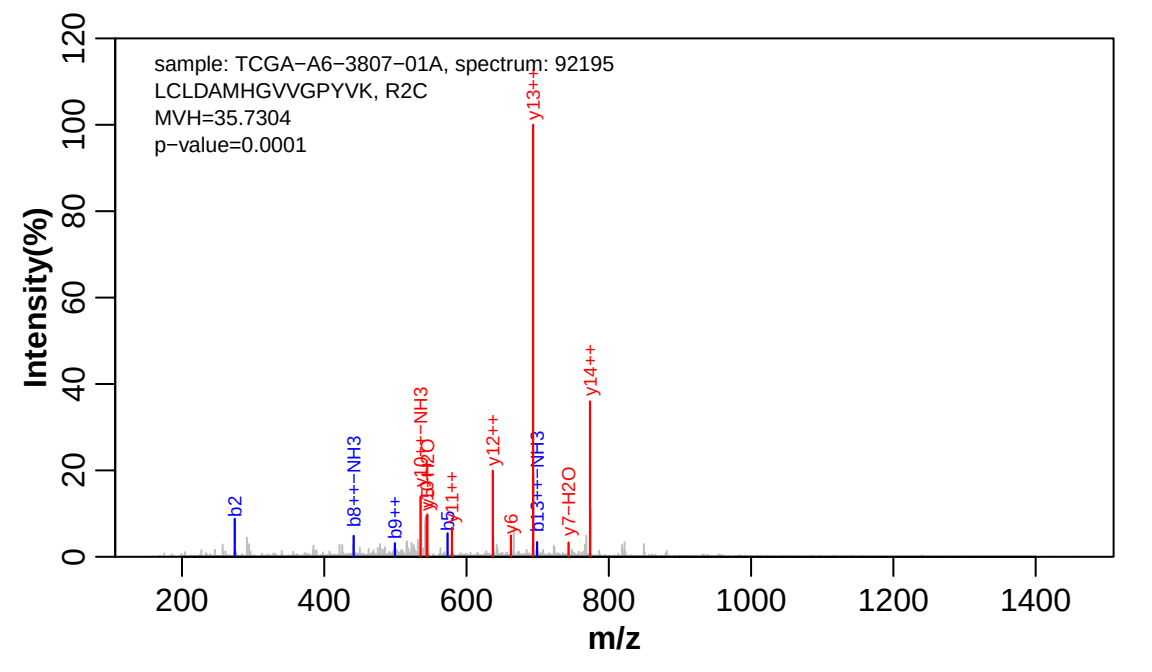

sample: TCGA−A6−3807−01A, spectrum: 5644
GLCVSENELGVGGTSQWK, P2L
MVH=77.3499
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y4
y6
y7
y7−H2O
y9
y10
y11
y12
y13
b10−NH3
b11
b12−NH3
b14−H2O
b17

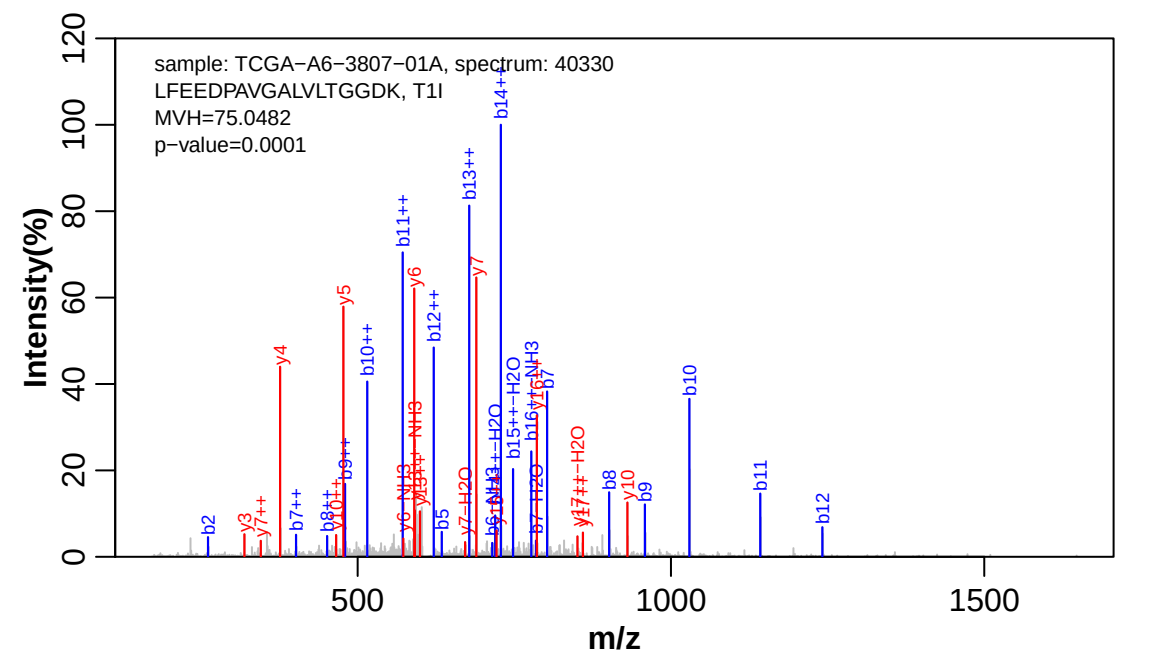

sample: TCGA−A6−3807−01A, spectrum: 50509
GQTGALLQNTVESLSK, D9N
MVH=68.1979
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7−NH3
b7
y6
b8−H2O
b8
y8
y8−NH3
b9
y9
y9−H2O
y9−NH3
b11−NH3
b11
y10
y10−H2O
y10−NH3
b12−NH3
b12
y11
y11−H2O
y12
y13
b14−NH3
b14
y14
b15

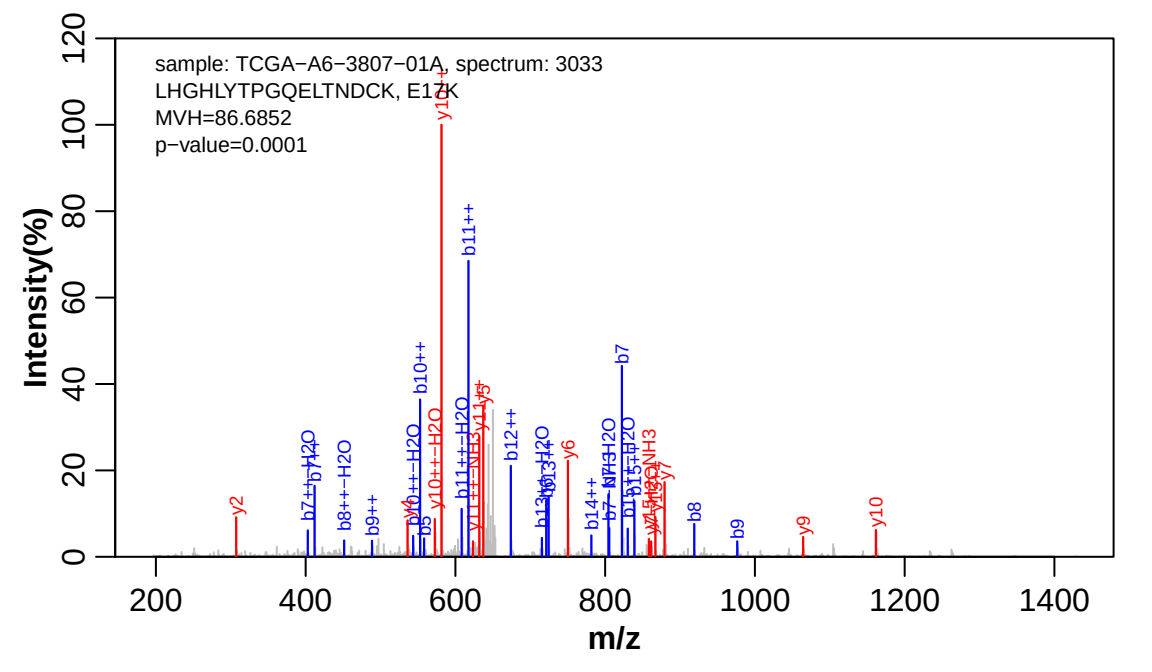

sample: TCGA−A6−3807−01A, spectrum: 27004
GVAGSSVAVLCPYNR, G5S
MVH=57.6998
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y9
y10
b14

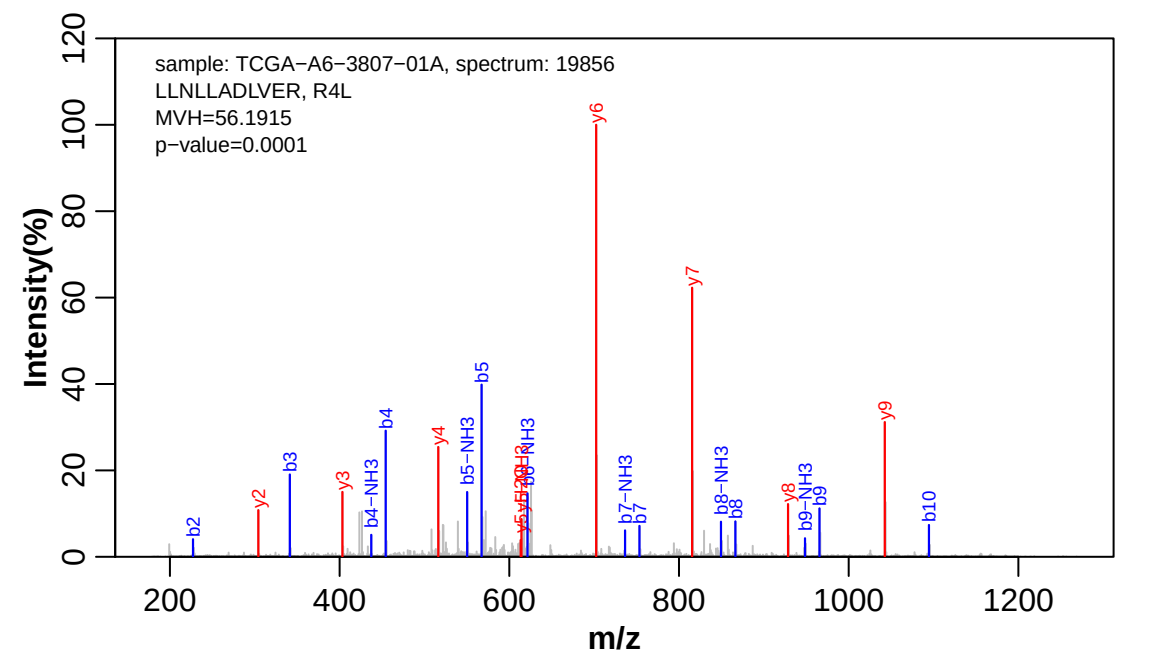

sample: TCGA−A6−3807−01A, spectrum: 102851
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=40.2504
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
y10++
b12++
y7
b8
b21++−H2O
b21++
b22++−H2O
b10
y10++−H2O
b24++−H2O
b26++
y27++−H2O
b28++
b29++

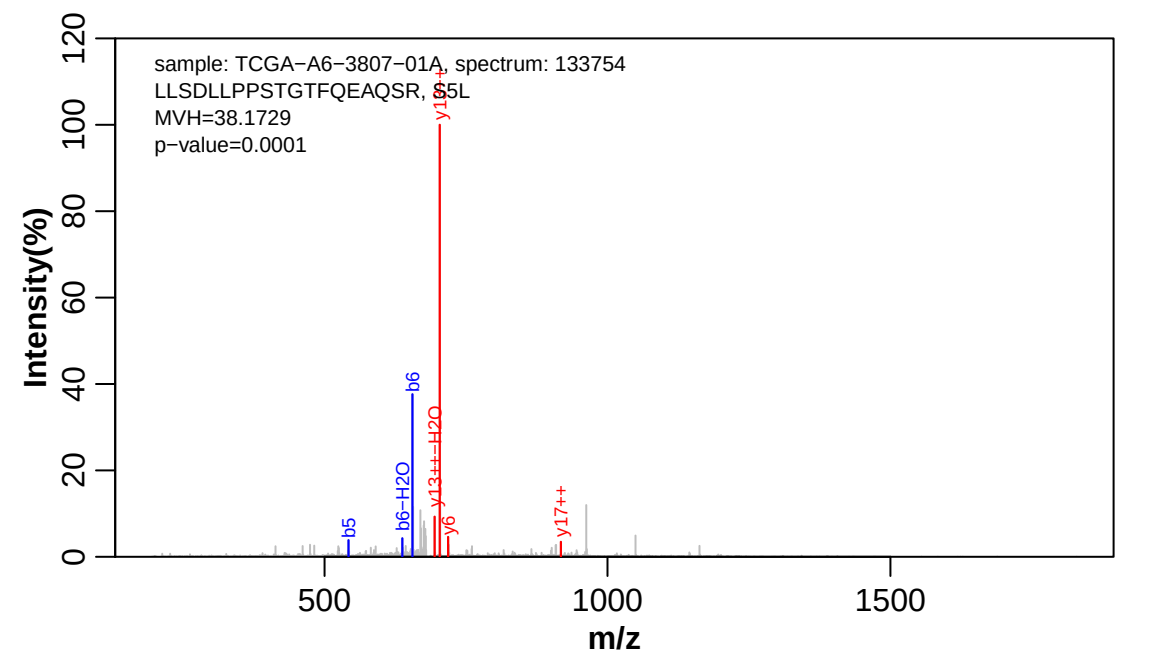

sample: TCGA−A6−3807−01A, spectrum: 62100
LATGSDDNCVAFFEGPPFK, A10V
MVH=47.7349
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y4−H2O
b6
y6
y6−H2O
y7
y7−H2O
y8
y10
y11
y11−H2O
y12
b14
y14
y15

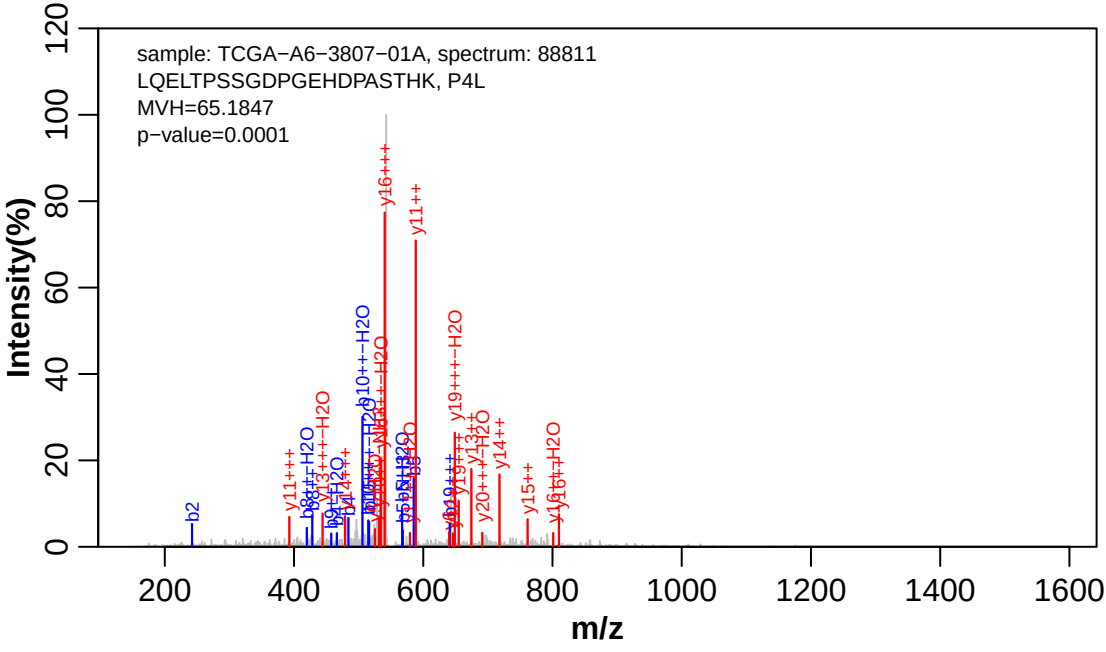

sample: TCGA−A6−3807−01A, spectrum: 92195
LCLDAMHGVVGPYVK, R2C
MVH=35.7304
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b8++−NH3
b9++
y10++−NH3
y10++−H2O
y11++
b5
y12++
y6
b13++−NH3
y7−H2O
y13++
y14++

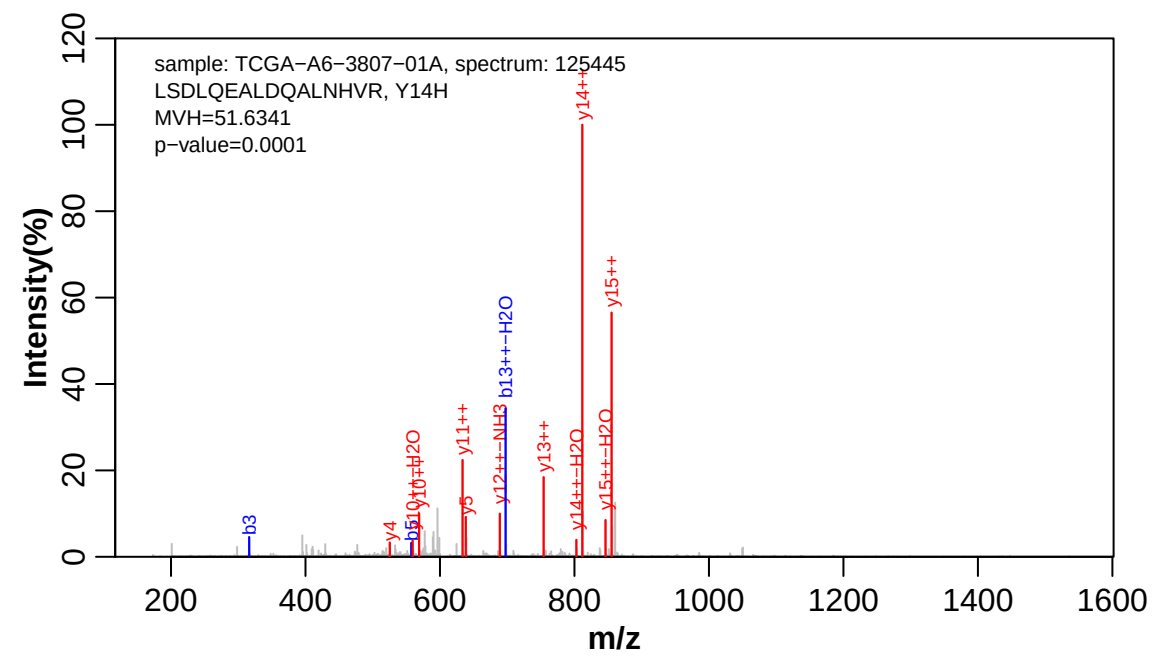

sample: TCGA−A6−3807−01A, spectrum: 40330
LFEEDPAVGALVLTGGDK, T1I
MVH=75.0482
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y7++
y4
b7++
b8++
b10++
y5
b9++
b11++
y6
b12++
b13++
y7
b14++
b5
b15++−H2O
b7
b10
b8
y10
b9
b11
b12

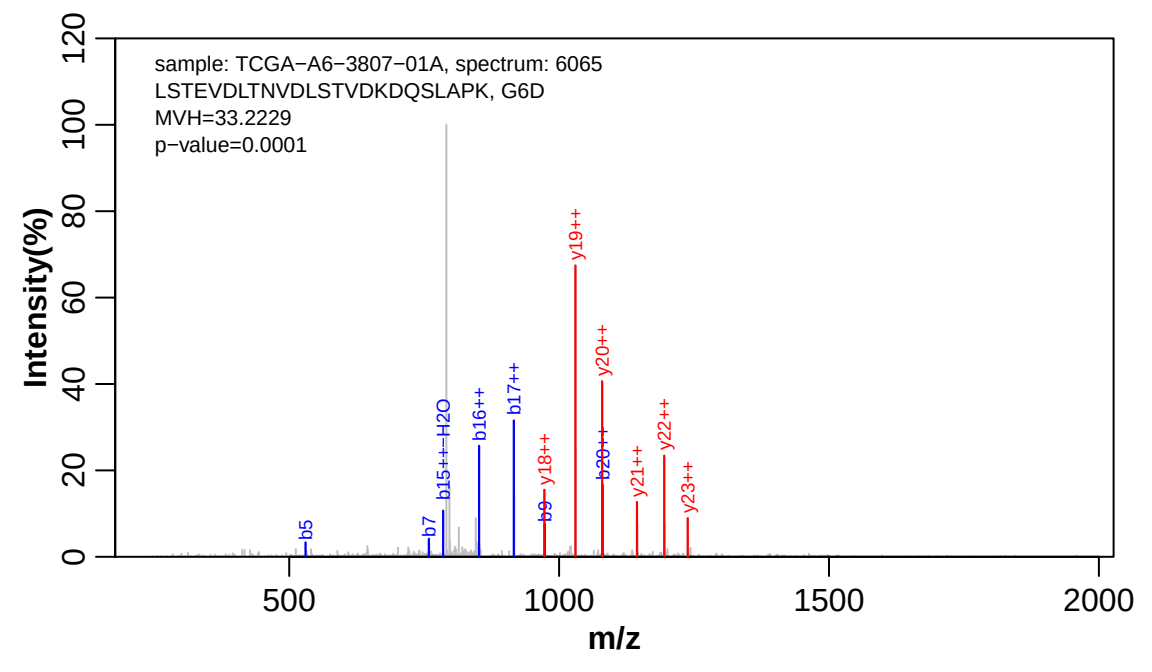

sample: TCGA−A6−3807−01A, spectrum: 3033
LHGHLYTPGQELTNDCK, E17K
MVH=86.6852
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b7++-H2O
b7++
b8++-H2O
b9++
y10++
b10++
y10++-H2O
b11++-H2O
b11++
y11++-NH3
y11++
b12++
b13++-H2O
y6
b14++
b7
y7
b8
b9
y9
y10

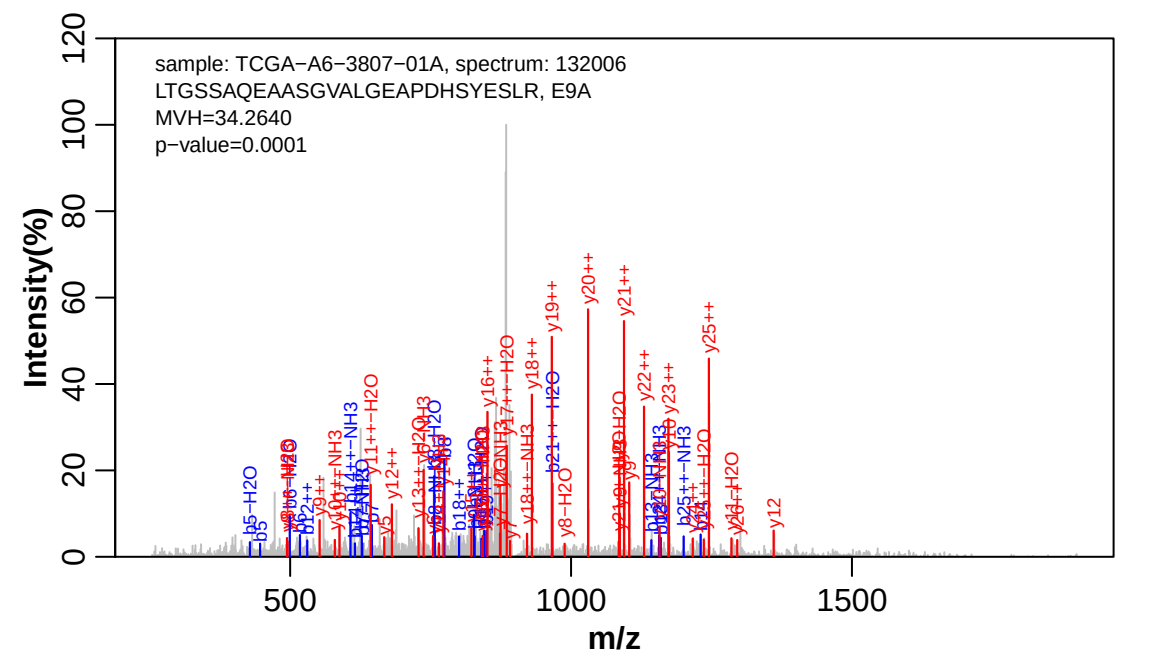

sample: TCGA−A6−3807−01A, spectrum: 19856
LLNLLADLVER, R4L
MVH=56.1915
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

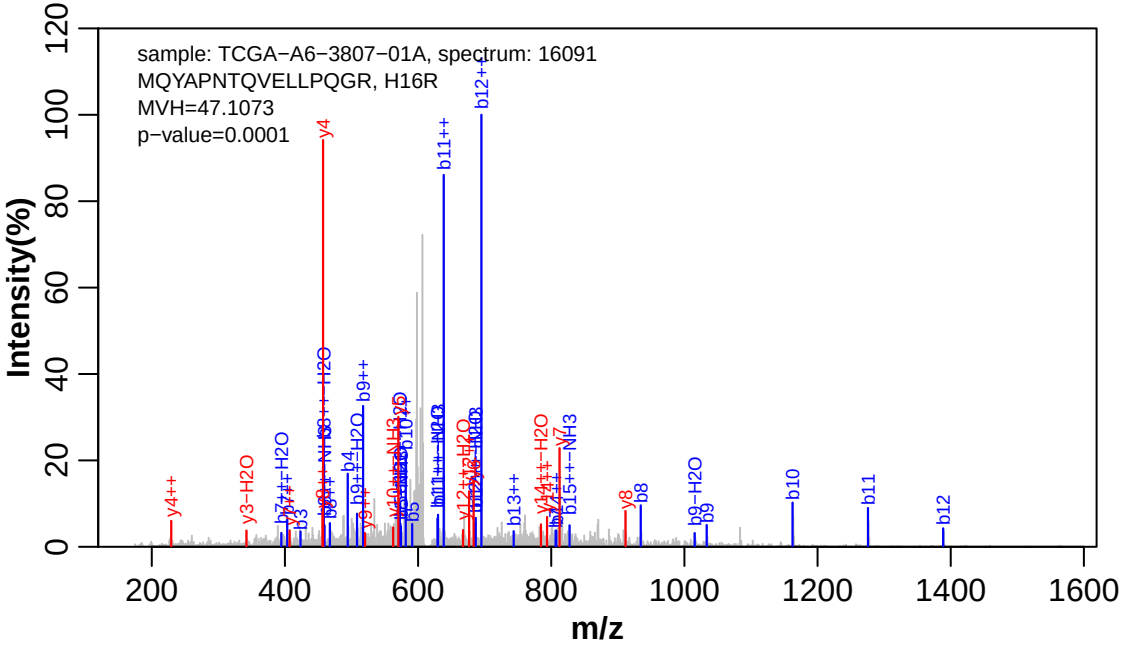

sample: TCGA−A6−3807−01A, spectrum: 133754
LLSDLLPPSTGTFQEAQSR, S5L
MVH=38.1729
p−value=0.0001
y19++
b6
y13++−H2O
b6−H2O
b5
y6
y17++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

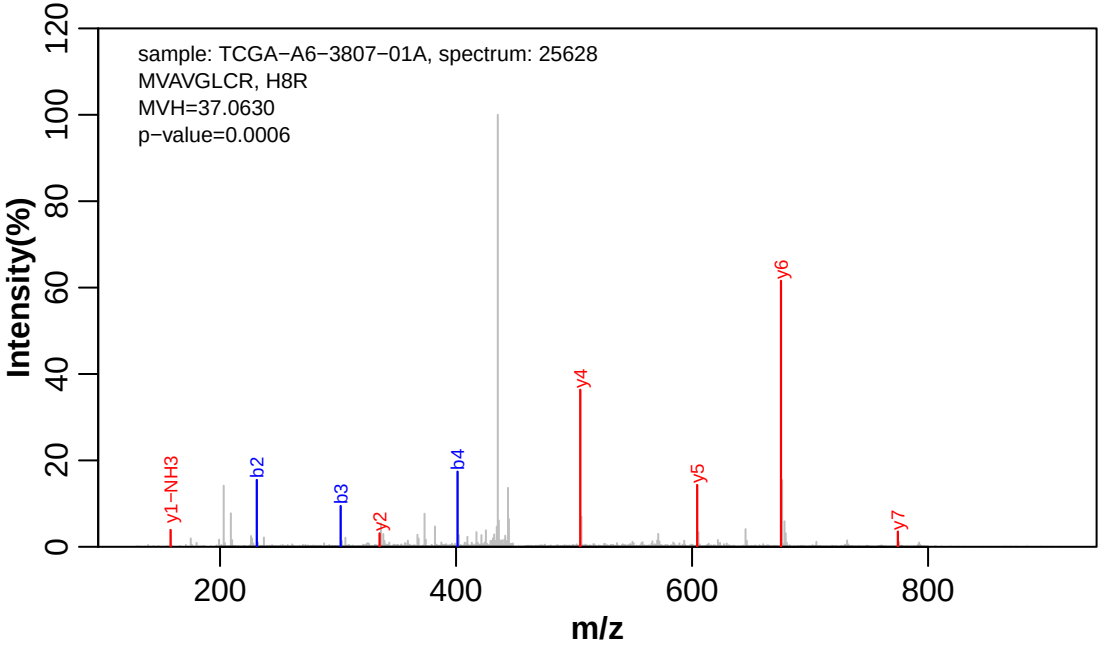

sample: TCGA−A6−3807−01A, spectrum: 88811
LQELTPSSGDPGEHDPASTHK, P4L
MVH=65.1847
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y11+++
y16+++
y11++
y19+++−H2O
y14++
y15++
y16++−H2O

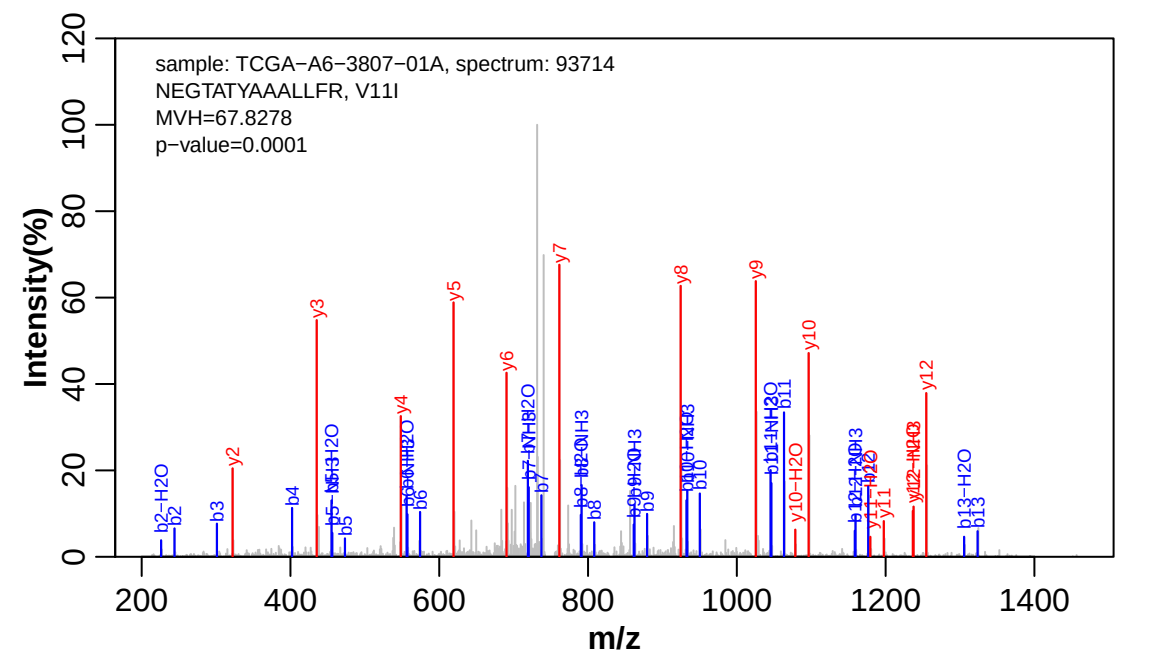

sample: TCGA−A6−3807−01A, spectrum: 125445
LSDLQEALDQALNHVR, Y14H
MVH=51.6341
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y4
b5
y10++H2O
y5
y11++
y12++−NH3
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

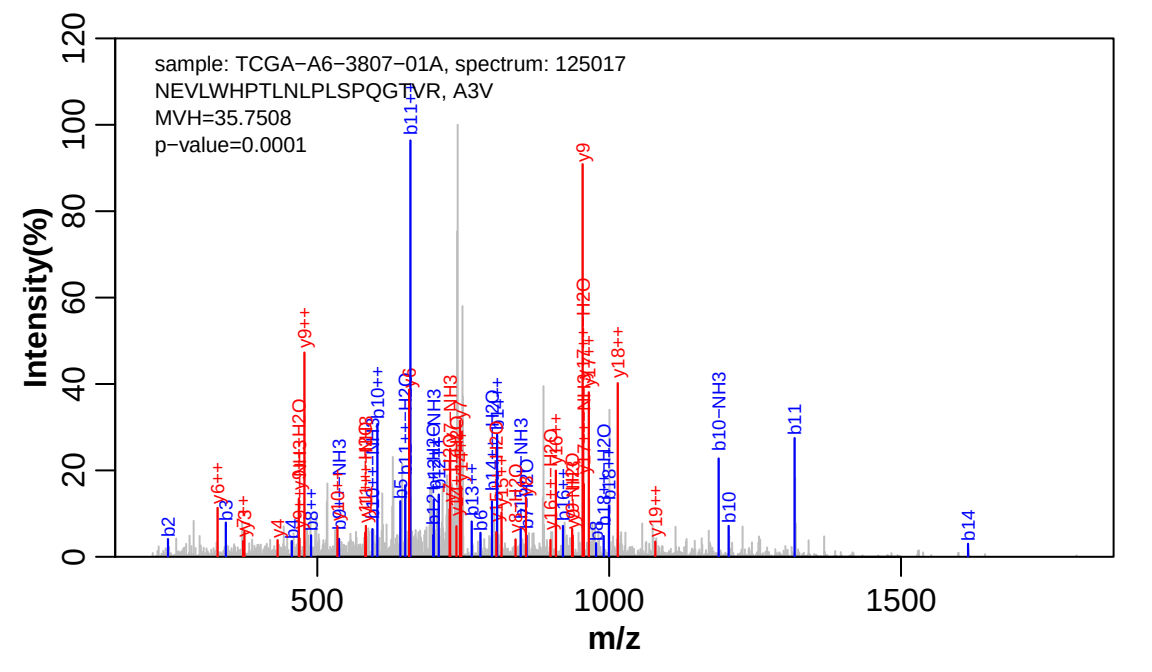

sample: TCGA−A6−3807−01A, spectrum: 6065
LSTEVDLTNVDLSTVDKDQSLAPK, G6D
MVH=33.2229
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b5
b7
b15++−H2O
b16++
b17++
b9
y18++
y19++
b20++
y20++
y21++
y22++
y23++

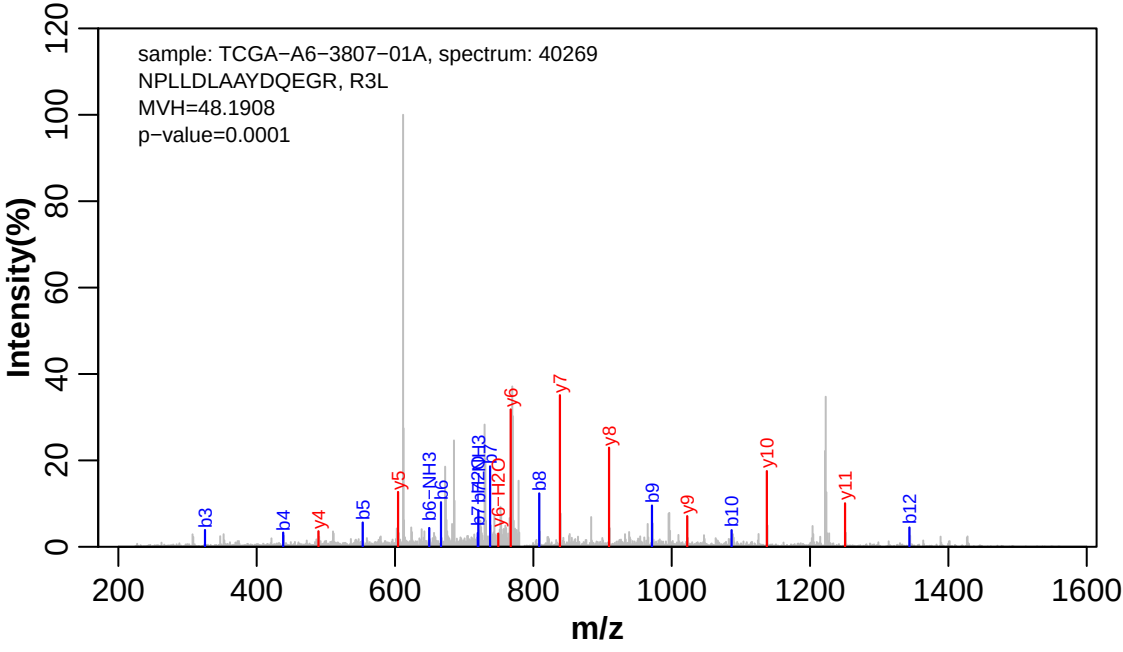

sample: TCGA−A6−3807−01A, spectrum: 132006
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=34.2640
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5−H2O
b5
y5
y12++
y5++
y12
y8−H2O
b21++−H2O
y18++−NH3
y18++
y19++
y20++
y21++
y22++
y23++
y25++
y16++
y17++−H2O
y11++−H2O
y10++−NH3
y9++−NH3
y25++−NH3
y25++−H2O
y26++−H2O

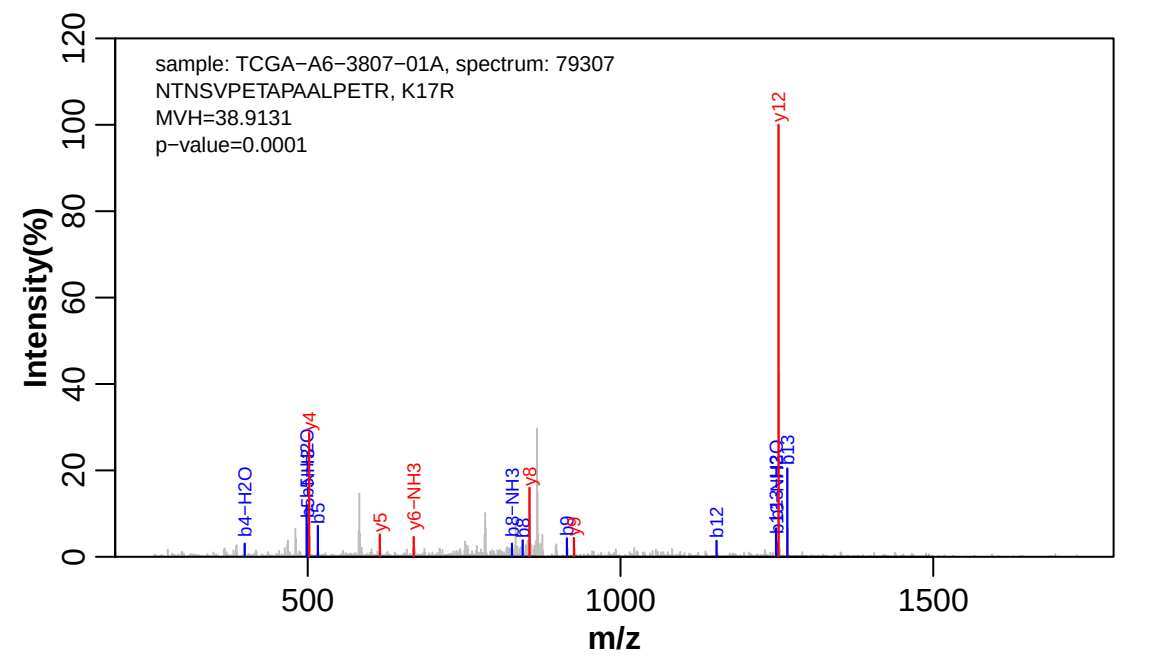

sample: TCGA−A6−3807−01A, spectrum: 16091
MQYAPNTQVELLPQGR, H16R
MVH=47.1073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4++
y3−H2O
y4
b12++
b11++
b9++
b13++
b10
b11
b12
b8
b9
y8

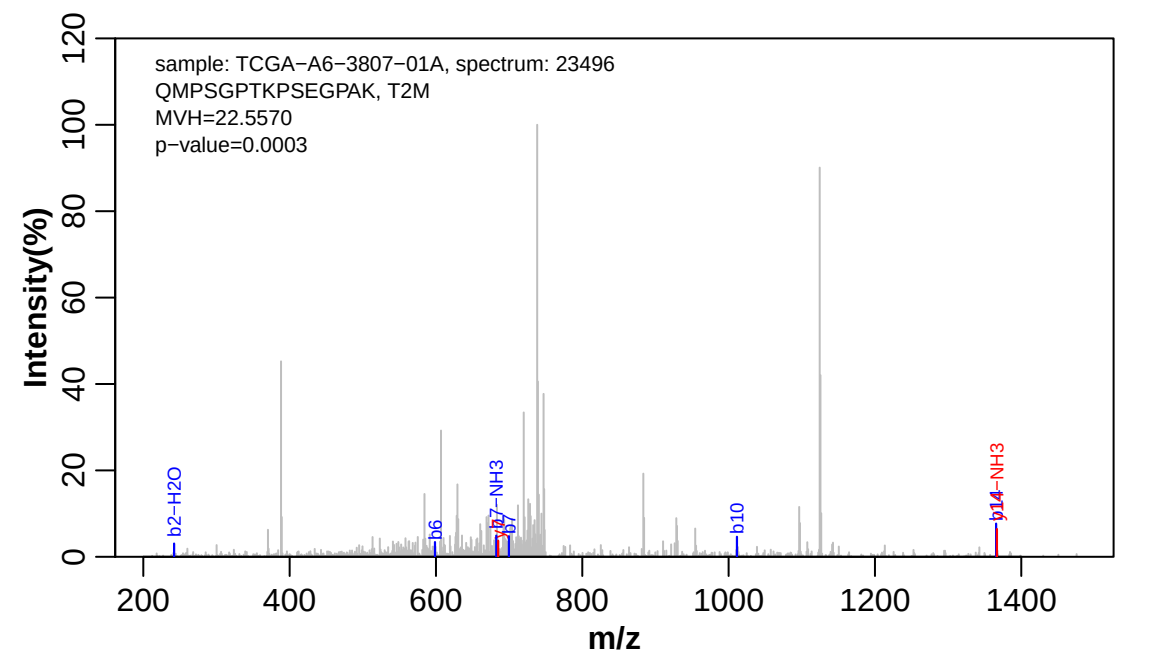

sample: TCGA−A6−3807−01A, spectrum: 25628
MVAVGLCR, H8R
MVH=37.0630
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
y5
y6
y7

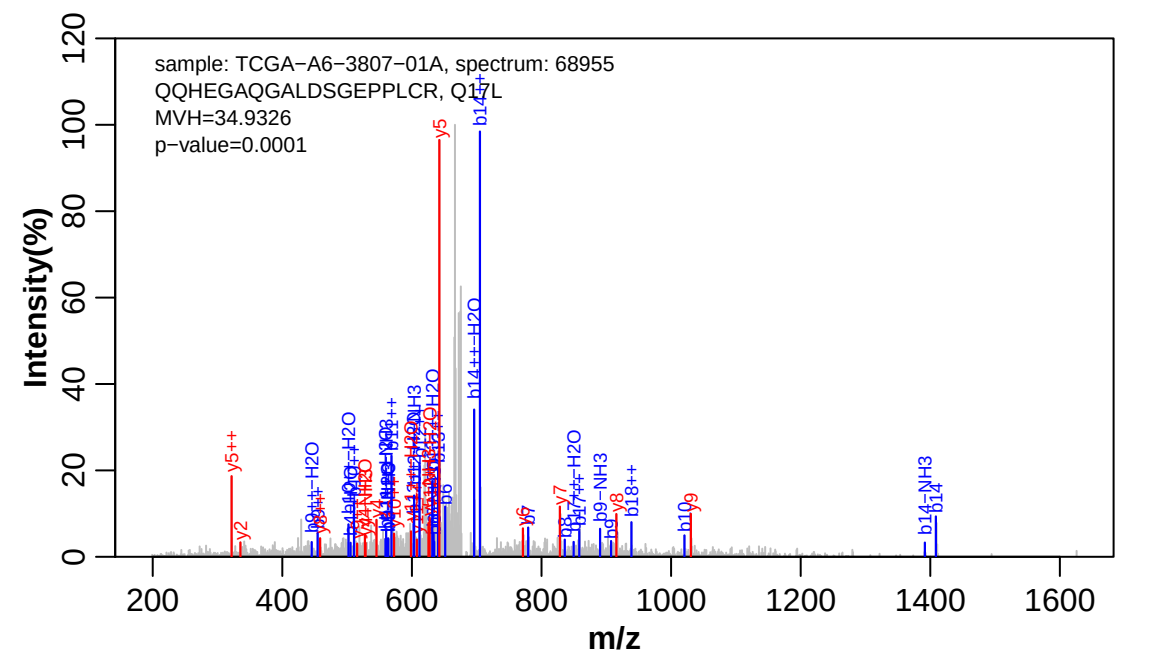

sample: TCGA−A6−3807−01A, spectrum: 93714
NEGTATYAAALLFR, V11I
MVH=67.8278
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
y4
y5
y6
y7
y8
y9
y10
y12
b2−H2O
b2
b3
b4
b5
b6
b8
b9
b10
b11
b13−H2O
b13

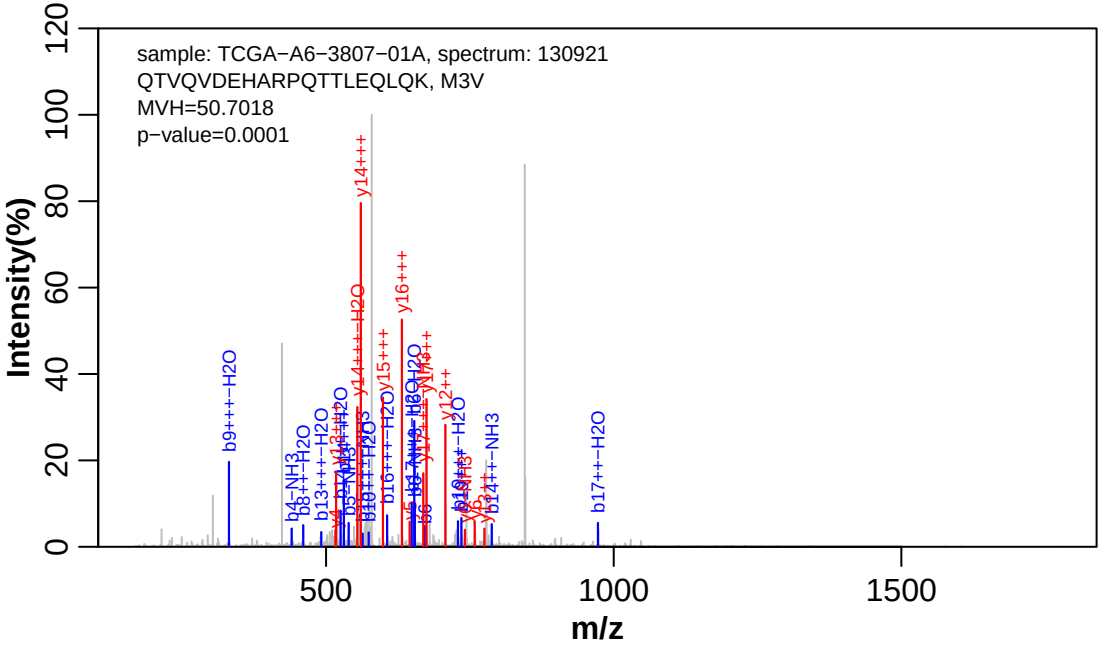

sample: TCGA−A6−3807−01A, spectrum: 125017
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=35.7508
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y6++
b3
y3+
y4
b4
y9++
b8++
b10−NH3
b10++
b11++
b11++ H2O
b5
b11++ H2O
b11++ NH3
b13++
b8
y18++
b18−H2O
y19++
b10
b10−NH3
b11
b14

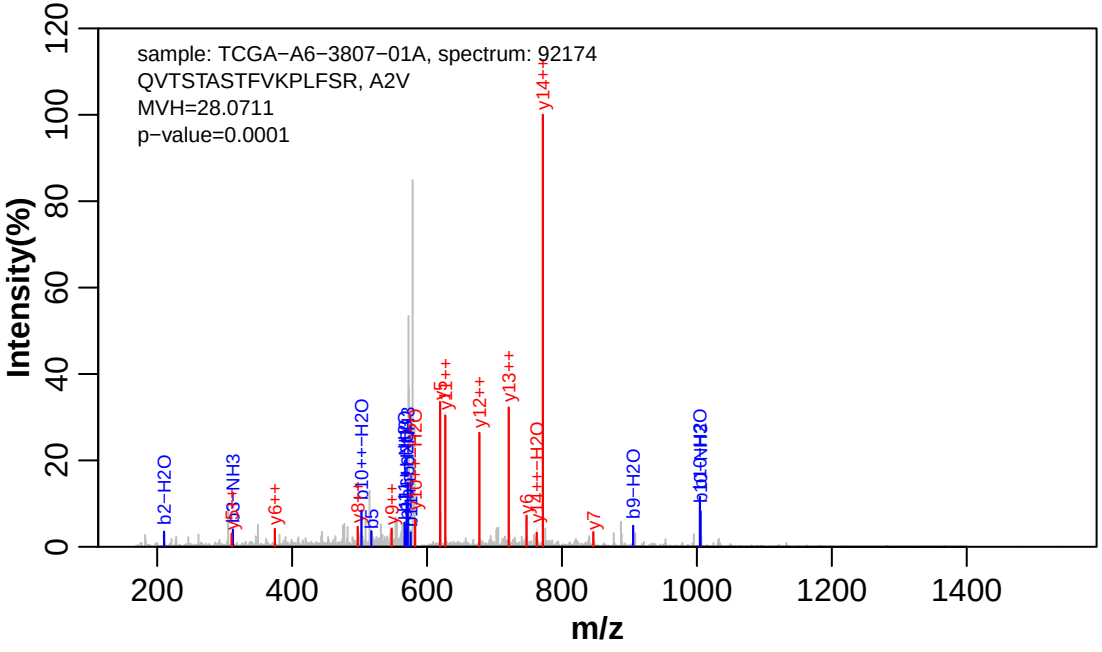

sample: TCGA−A6−3807−01A, spectrum: 40269
NPLLDLAAYDQEGR, R3L
MVH=48.1908
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4
y4
b5
y5
b6−NH3
b6
y6−H2O
y6
b8
y7
y8
b9
y9
b10
y10
y11
b12

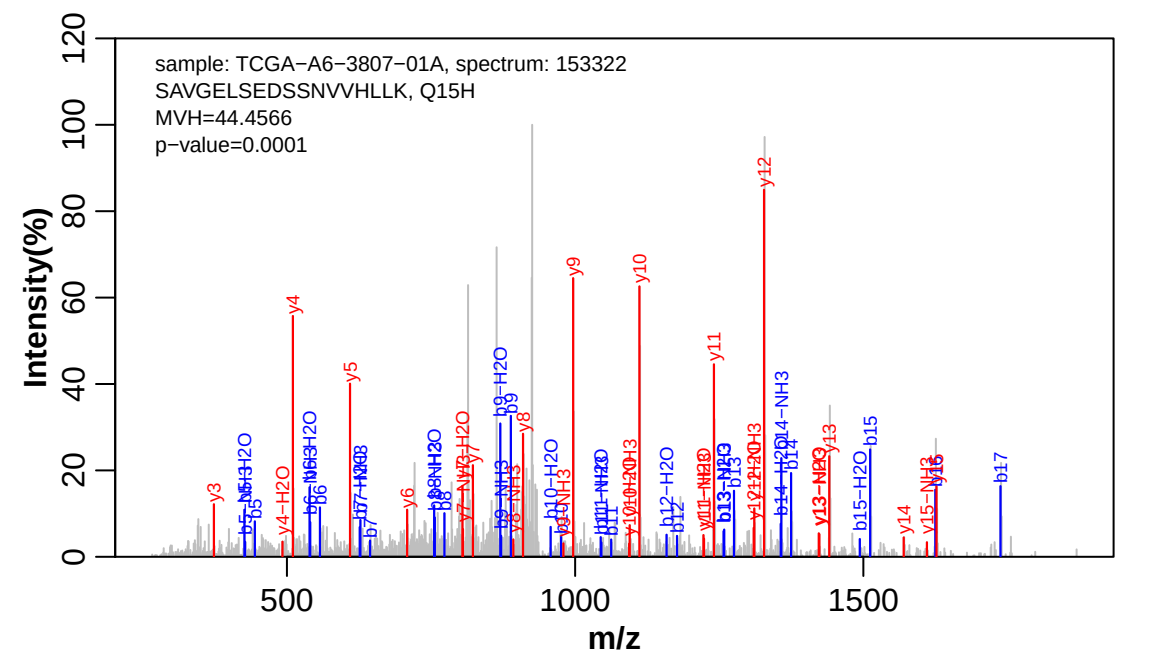

sample: TCGA−A6−3807−01A, spectrum: 79307
NTNSVPETAPAALPETR, K17R
MVH=38.9131
p−value=0.0001
Intensity(%)
m/z
y12
y4
b5
y5
y6−NH3
b8−NH3
y8
b12
b13

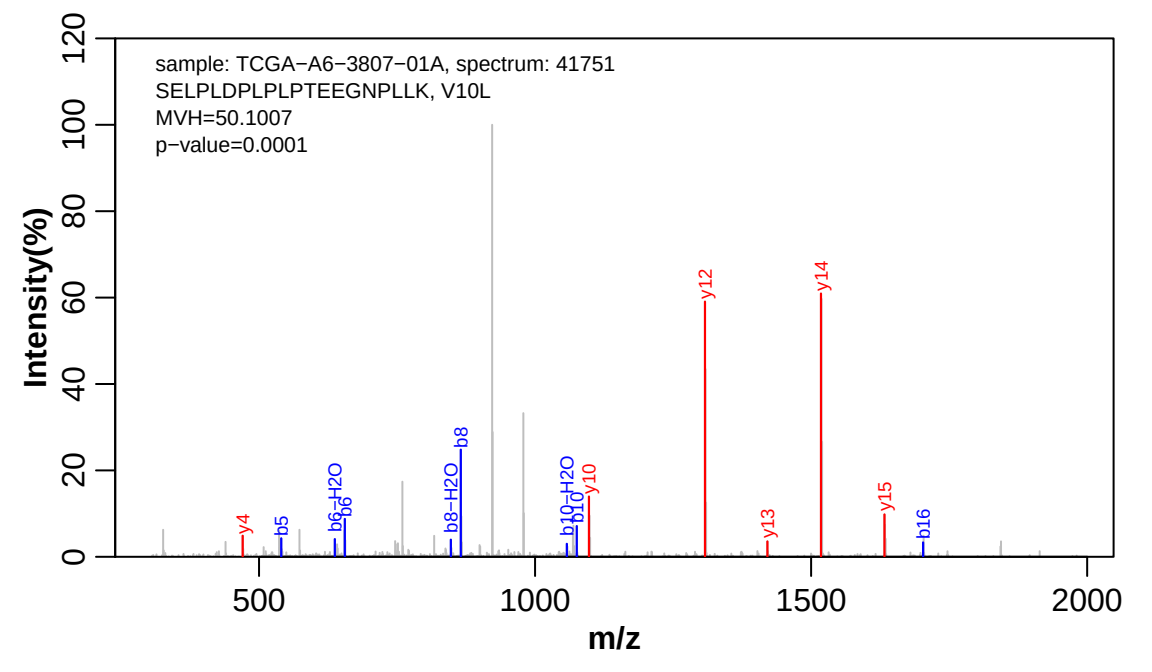

sample: TCGA−A6−3807−01A, spectrum: 23496
QMPSGPTKPSEGPAK, T2M
MVH=22.5570
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2−H2O
b6
y7−NH3
b7
b10
y14−NH3

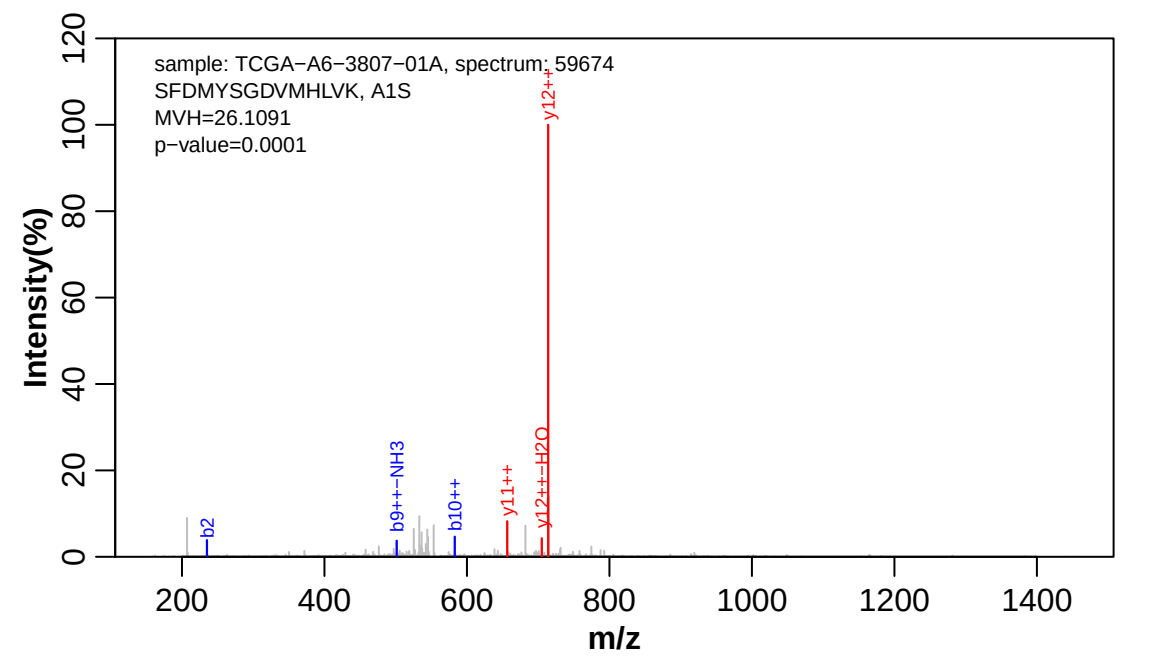

sample: TCGA−A6−3807−01A, spectrum: 68955
QQHEGAQGALDSGEPPLCR, Q1=L
MVH=34.9326
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
b14++
y5++
y2
b14++−H2O
b14−NH3
b14
b9++
y9++
y8++
b8++
b6
y6
y7
b8
b7++−H2O
b9−NH3
b8
y8
b18++
b19
y9

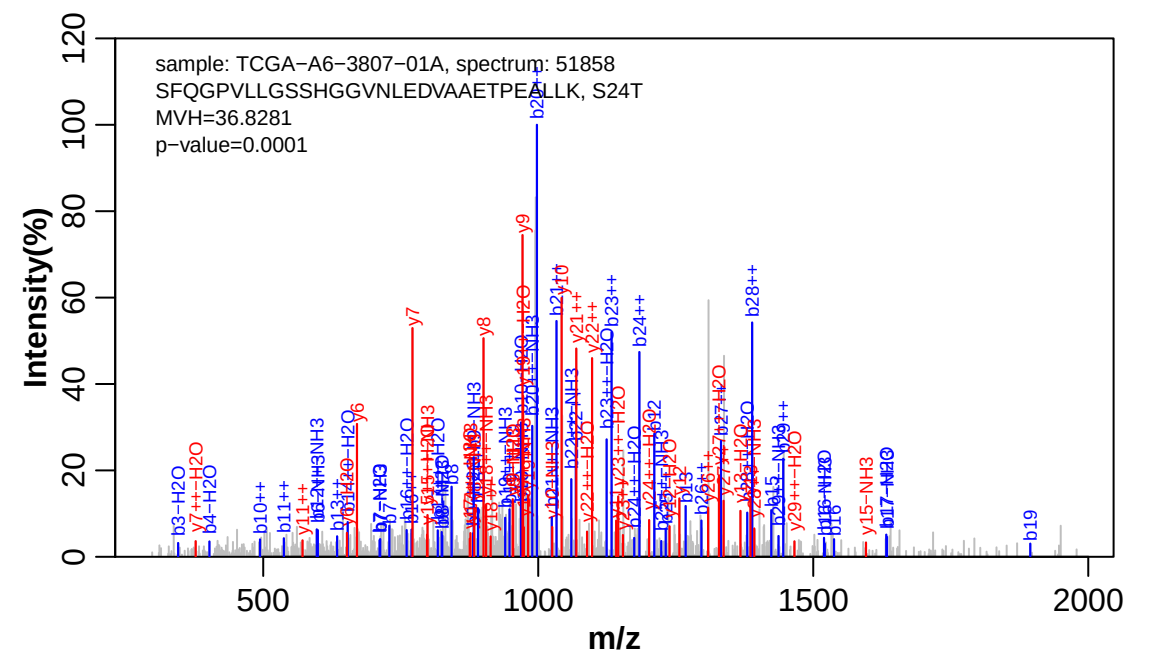

sample: TCGA−A6−3807−01A, spectrum: 130921
QTVQVDEHARPQTTLEQLQK, M3V
MVH=50.7018
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9+++−H2O
y14+++
y14+++−H2O
y16+++
y15+++
b17++−H2O
b14++−NH3
y12++

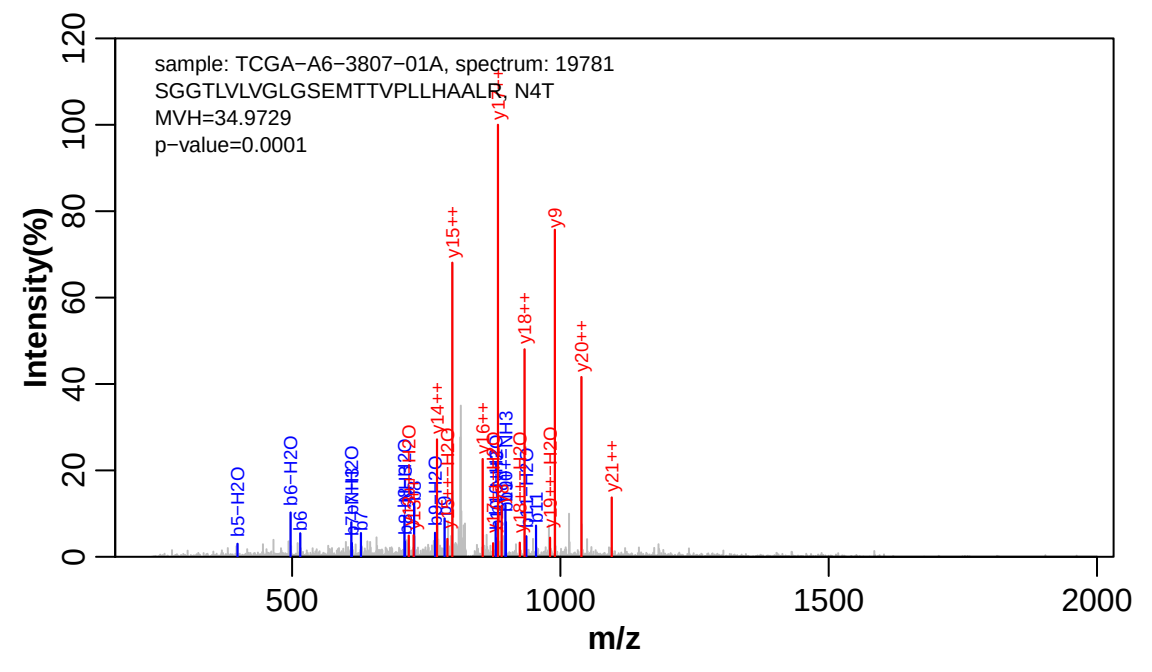

sample: TCGA−A6−3807−01A, spectrum: 92174
QVTSTASTFVKPLFSR, A2V
MVH=28.0711
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
y6++
y14++
y12++
y13++
y11++
y7
b9−H2O

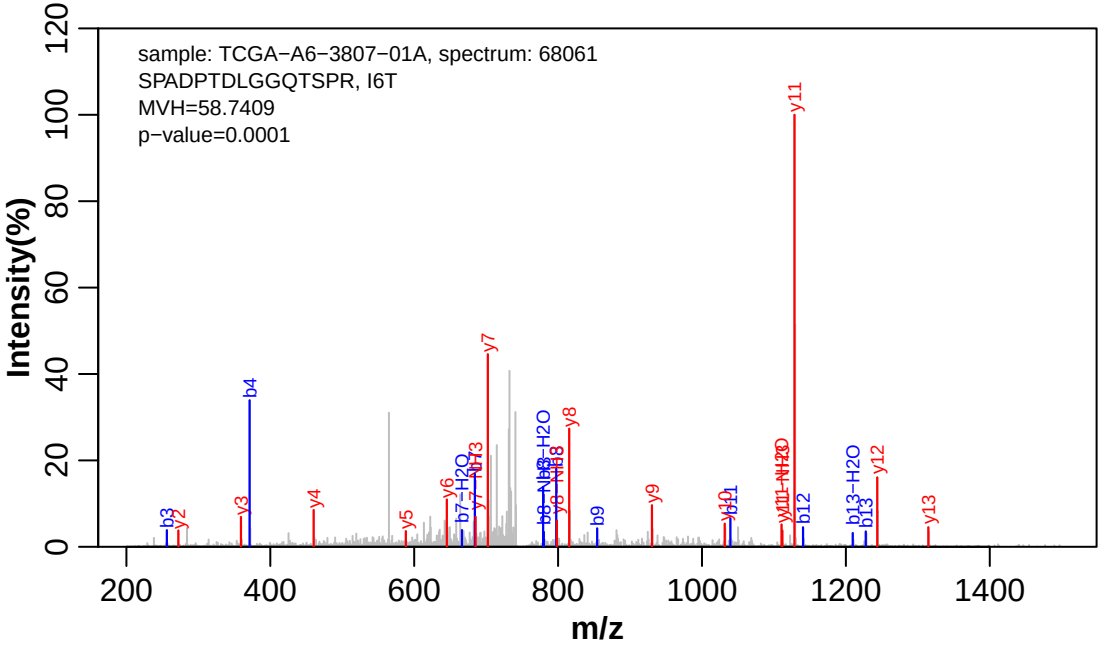

sample: TCGA−A6−3807−01A, spectrum: 153322
SAVGELSEDSSNVVHLLK, Q15H
MVH=44.4566
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y14
b15
b17

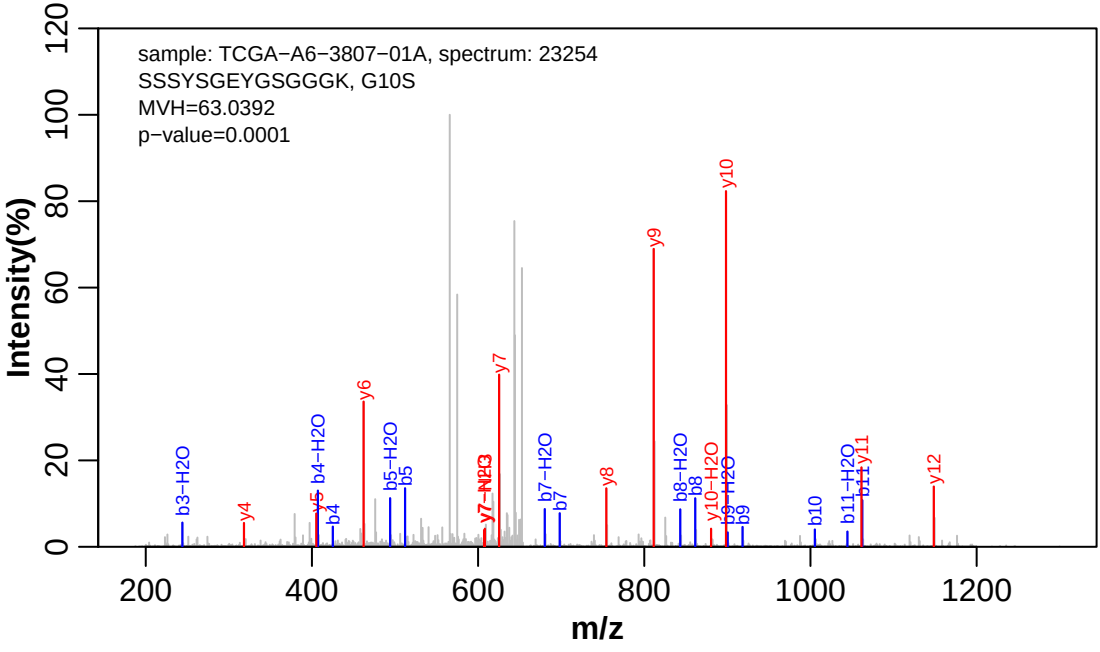

sample: TCGA−A6−3807−01A, spectrum: 41751
SELPLDPLPLPTEEGNPLLK, V10L
MVH=50.1007
p−value=0.0001
Intensity(%)
m/z
y4
b5
b6−H2O
b6
b8−H2O
b8
b10−H2O
b10
y10
y12
y13
y14
y15
b16

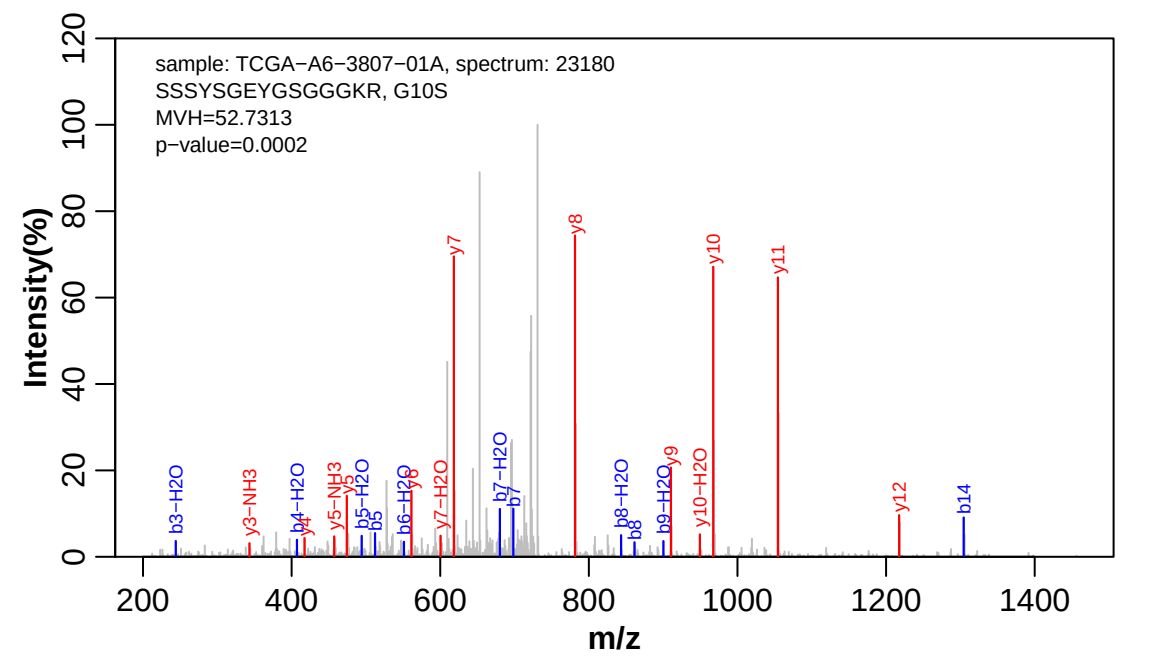

sample: TCGA−A6−3807−01A, spectrum: 59674
SFDMYSGDVMHLVK, A1S
MVH=26.1091
p−value=0.0001
y12++
b9++−NH3
b10++
y11++
y12++−H2O
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

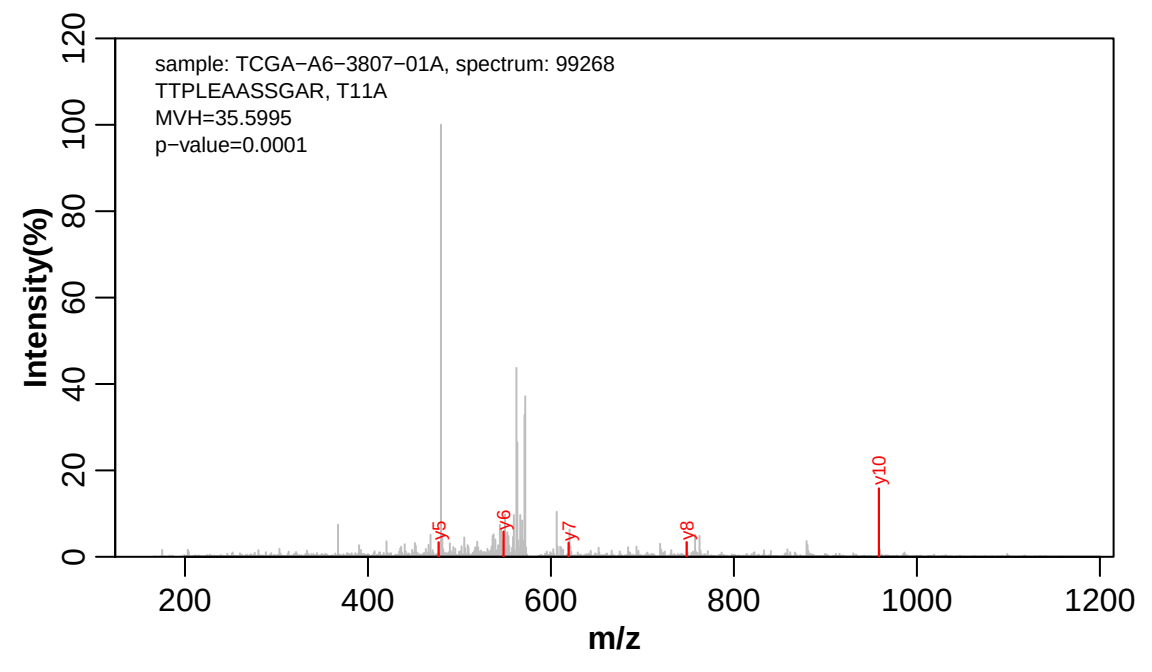

sample: TCGA−A6−3807−01A, spectrum: 51858
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=36.8281
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

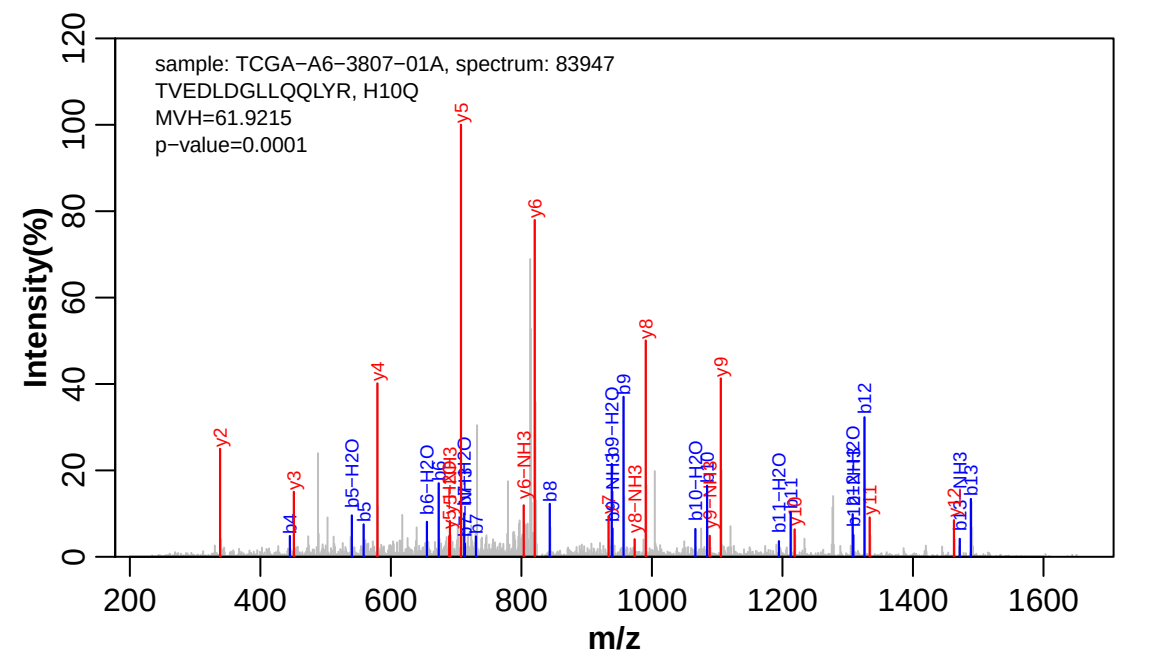

sample: TCGA−A6−3807−01A, spectrum: 19781
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=34.9729
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y9
y18++
y20++
y14++
y16++
y21++
b5−H2O
b6−H2O
b6
b11
y19++−H2O

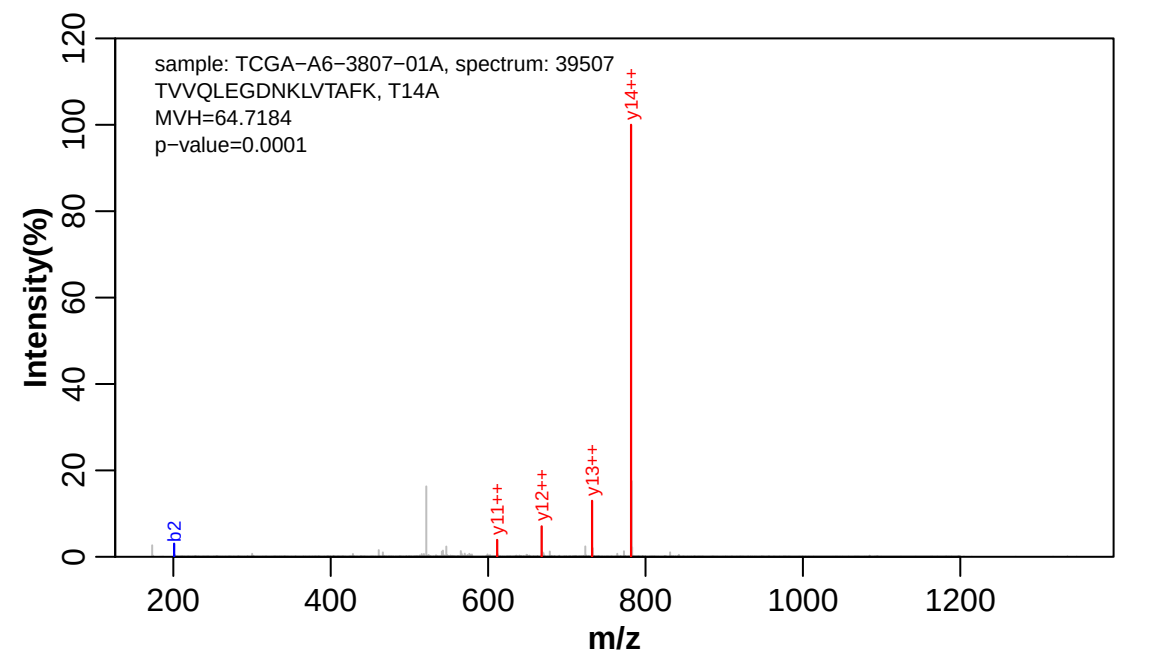

sample: TCGA−A6−3807−01A, spectrum: 68061
SPADPTDLGGQTSPR, I6T
MVH=58.7409
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
b7−H2O
y7−NH3
y7
b8−NH3
b8−H2O
y8−NH3
y8
b9
y9
y10
b11
y11−NH3
y11−H2O
y11
b12
b13−H2O
b13
y12
y13

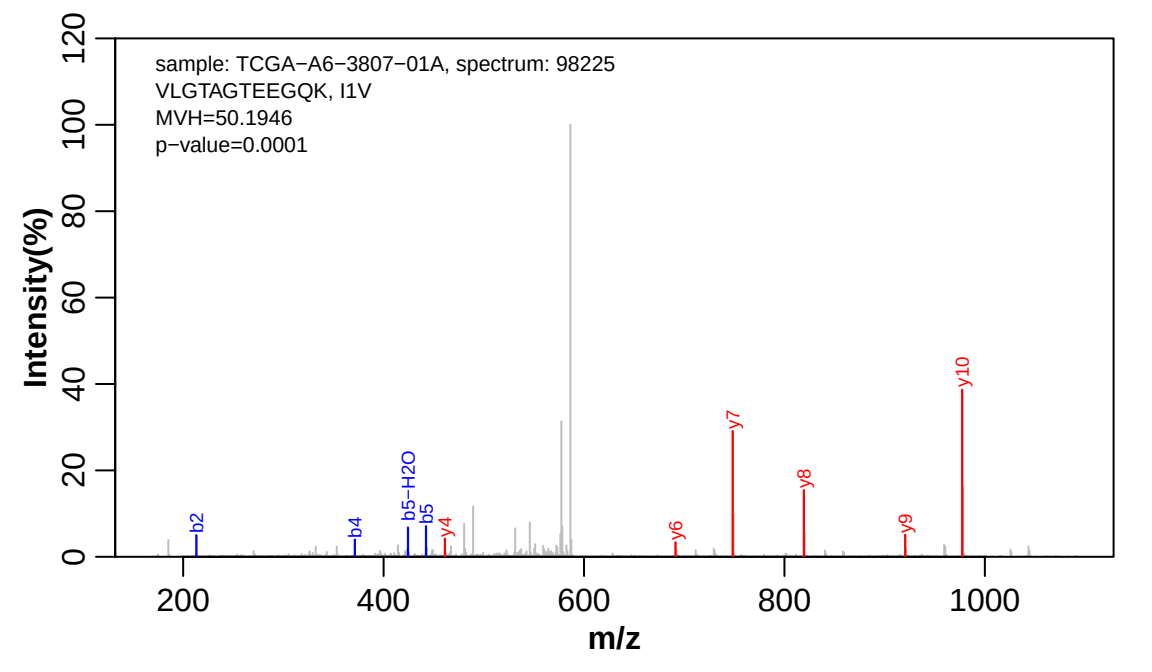

sample: TCGA−A6−3807−01A, spectrum: 23254
SSSYSGEYGSGGGK, G10S
MVH=63.0392
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
y7
y7−NH3
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
y10−H2O
b9−H2O
b9
b10
b11−H2O
b11
y11
y12

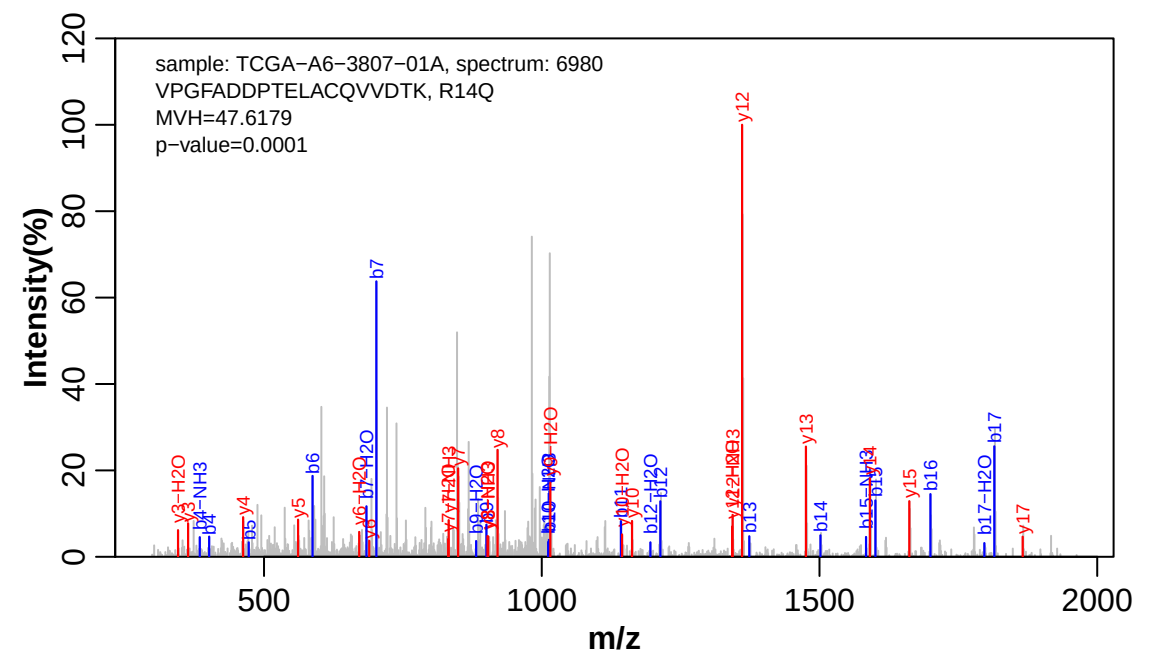

sample: TCGA−A6−3807−01A, spectrum: 23180
SSSYSGEYGSGGGKR, G10S
MVH=52.7313
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y3−NH3
b4−H2O
y4
y5−NH3
y5
b5−H2O
b5
b6−H2O
y6
y7−H2O
y7
b7−H2O
b7
y8
b8−H2O
b8
b9−H2O
y9
y10−H2O
y10
y11
y12
b14

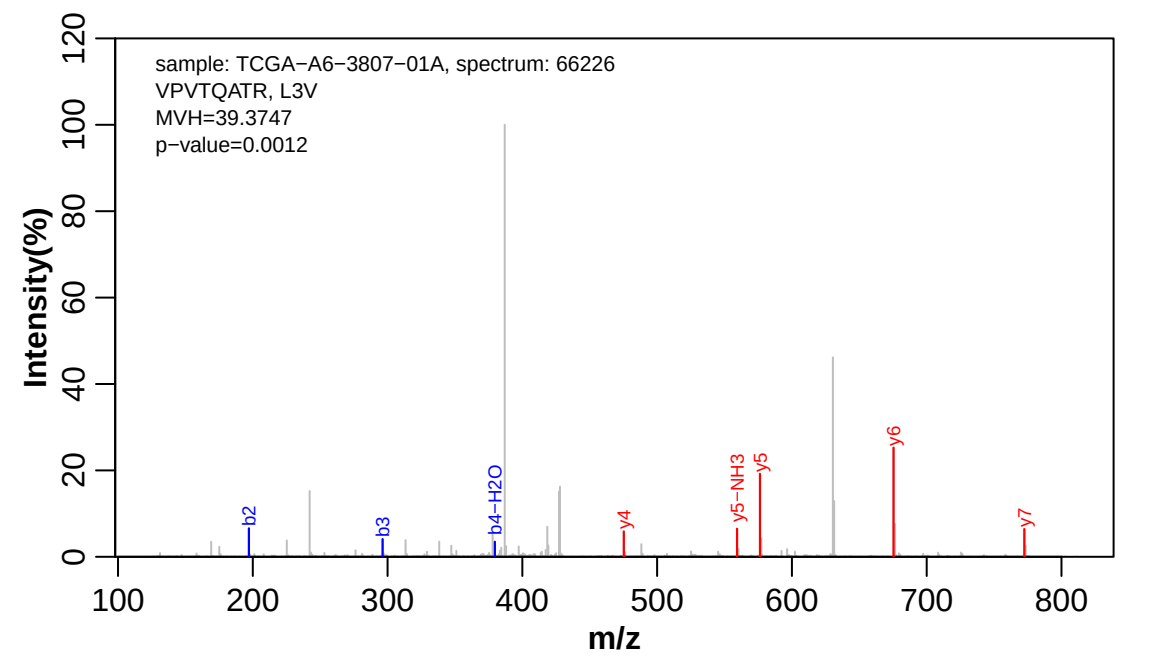

sample: TCGA−A6−3807−01A, spectrum: 99268
TTPLEAASSGAR, T11A
MVH=35.5995
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y5
y6
y7
y8
y10

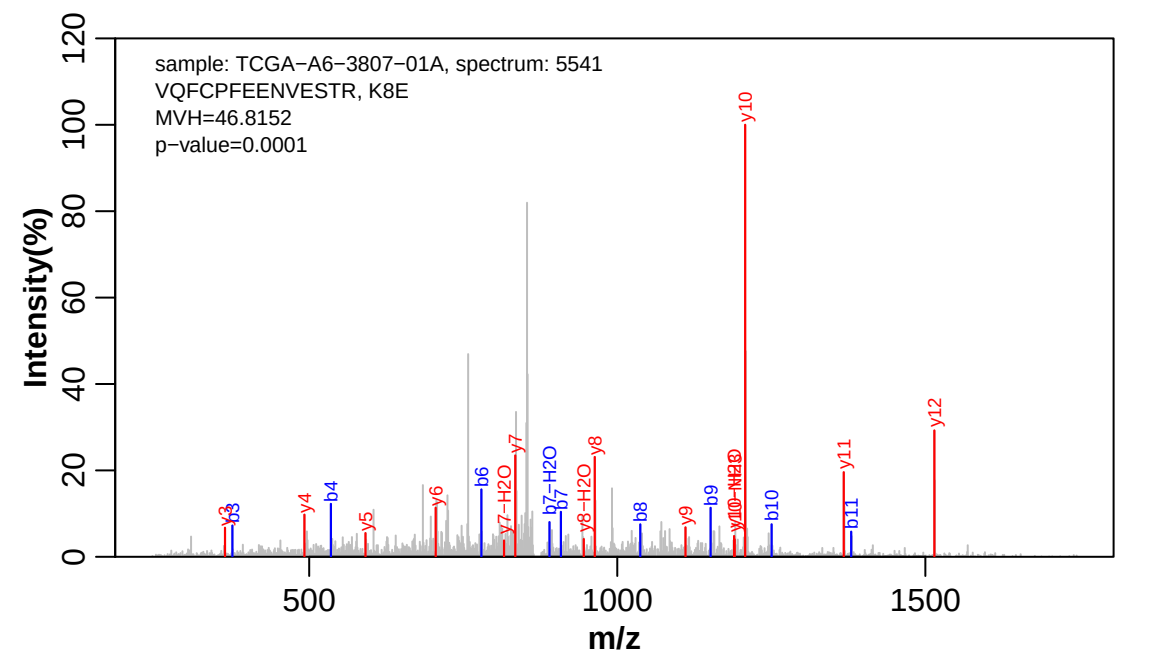

sample: TCGA−A6−3807−01A, spectrum: 83947
TVEDLDGLLQQLYR, H10Q
MVH=61.9215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
y6
y8
y9
b4
b5
b5−H2O
b6−H2O
b8
y6−NH3
b9
b9−H2O
y8−NH3
b10−H2O
b11−H2O
b12
y11
b13

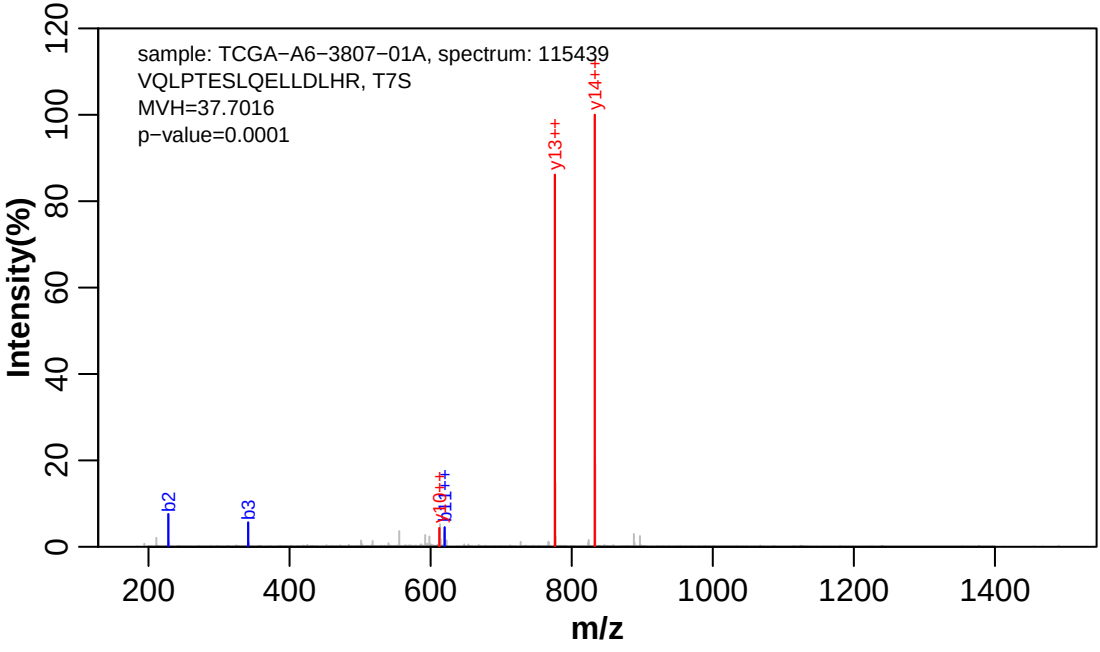

sample: TCGA−A6−3807−01A, spectrum: 39507
TVVQLEGDNKLVTAFK, T14A
MVH=64.7184
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

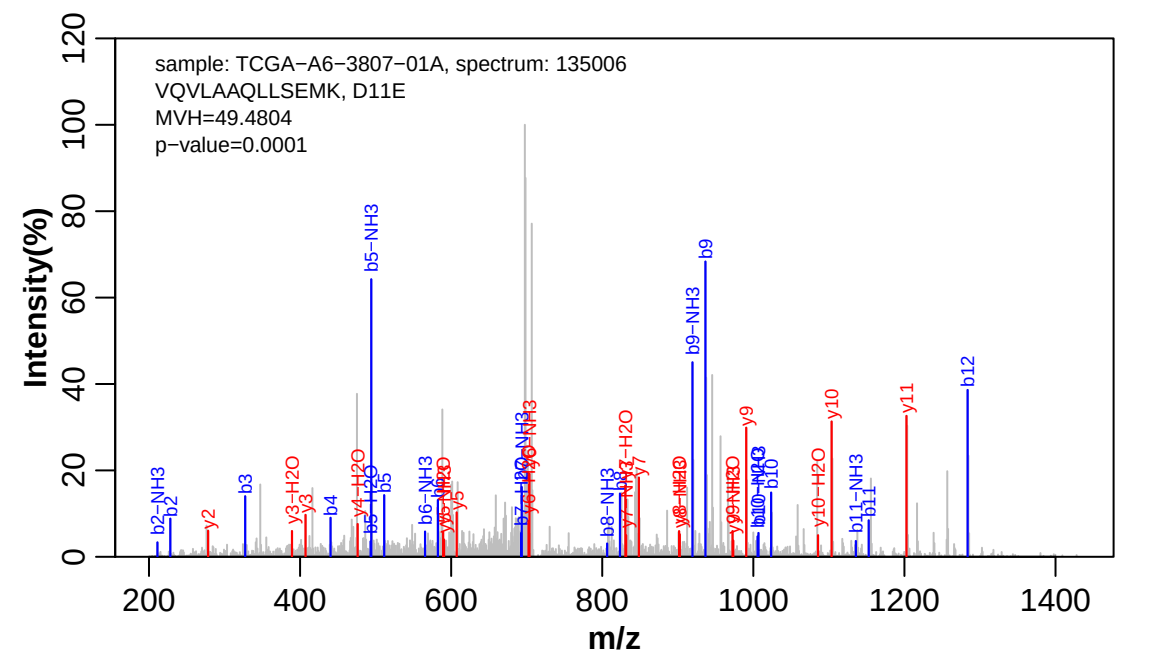

sample: TCGA−A6−3807−01A, spectrum: 98225
VLGTAGTEEGQK, I1V
MVH=50.1946
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
b5−H2O
b5
y4
y6
y7
y8
y9
y10

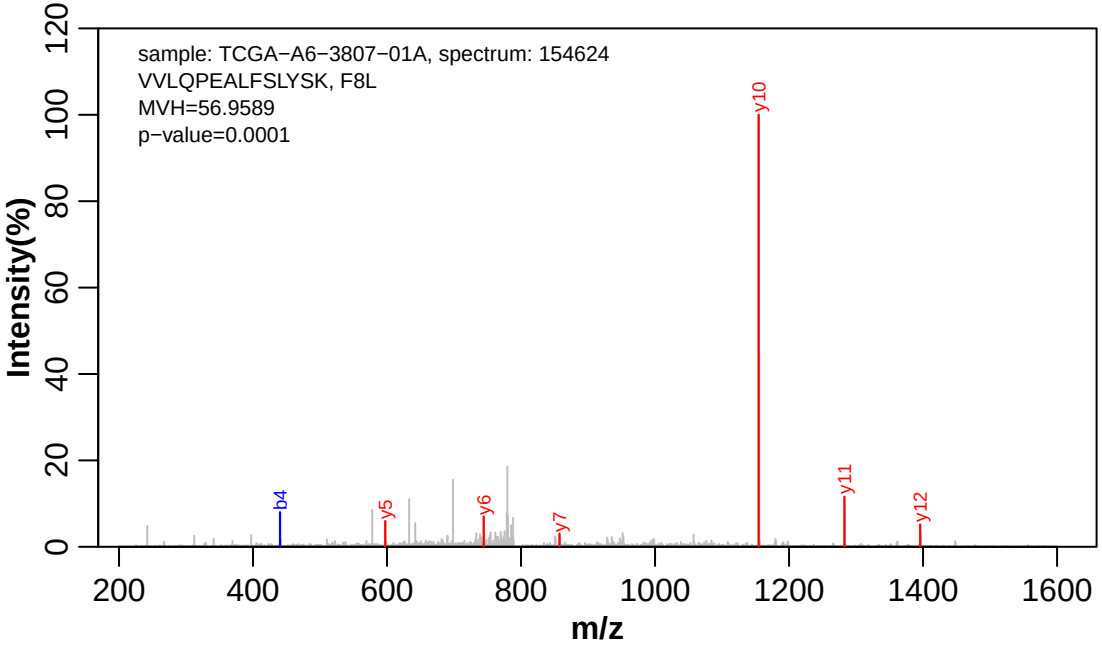

sample: TCGA−A6−3807−01A, spectrum: 6980
VPGFADDPTELACQVVDTK, R14Q
MVH=47.6179
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
b7
y13
b17
y15
b16
y17
b14
b13
y5
b6
y4
y8

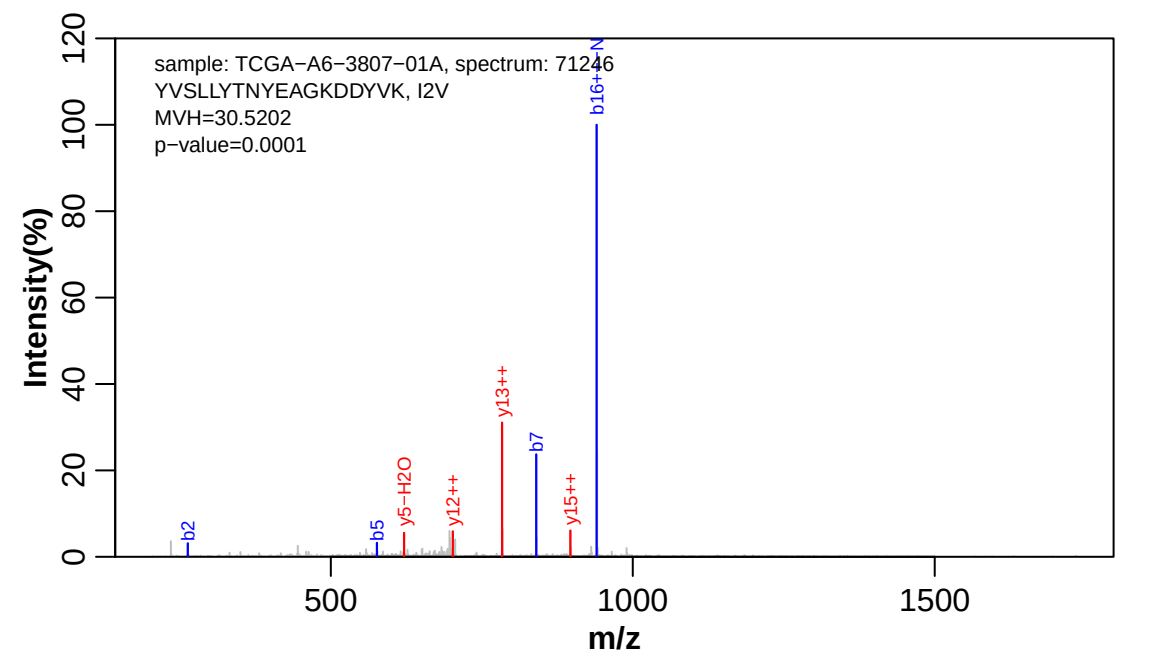

sample: TCGA−A6−3807−01A, spectrum: 66226
VPVTQATR, L3V
MVH=39.3747
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z
b2
b3
b4−H2O
y4
y5−NH3
y5
y6
y7

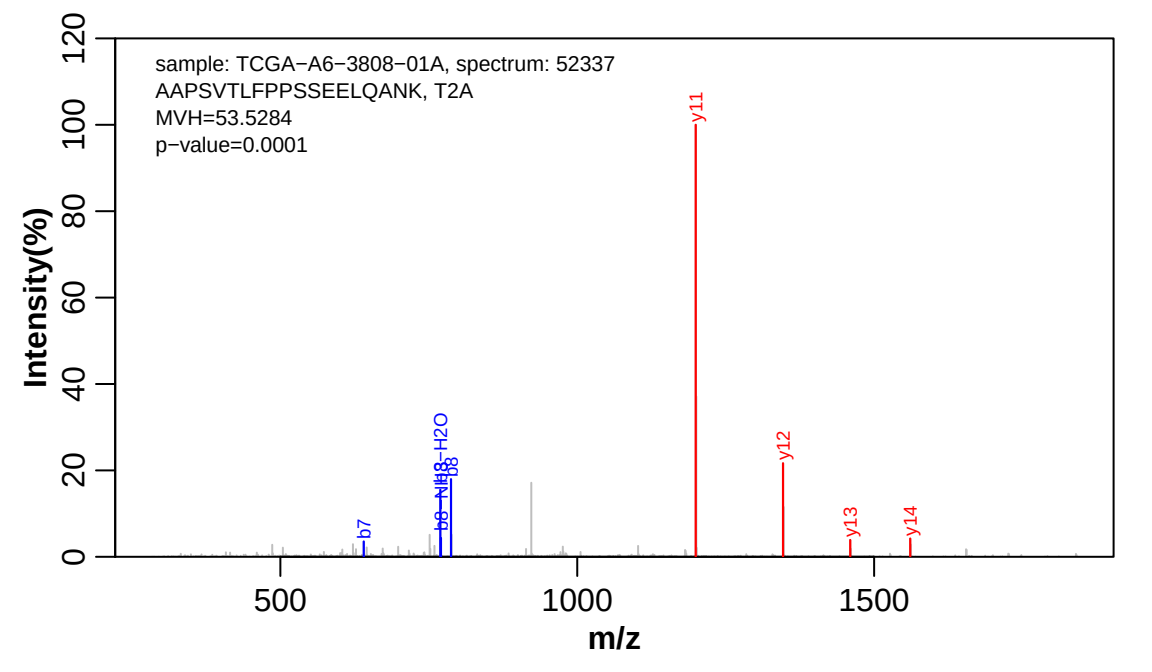

sample: TCGA−A6−3807−01A, spectrum: 5541
VQFCPFEENVESTR, K8E
MVH=46.8152
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b3
y4
b4
y5
y6
b6
y7−H2O
y7
b7−H2O
b7
y8−H2O
y8
b8
y9
b9
y10−NH3
y10−H2O
y10
b10
y11
b11
y12

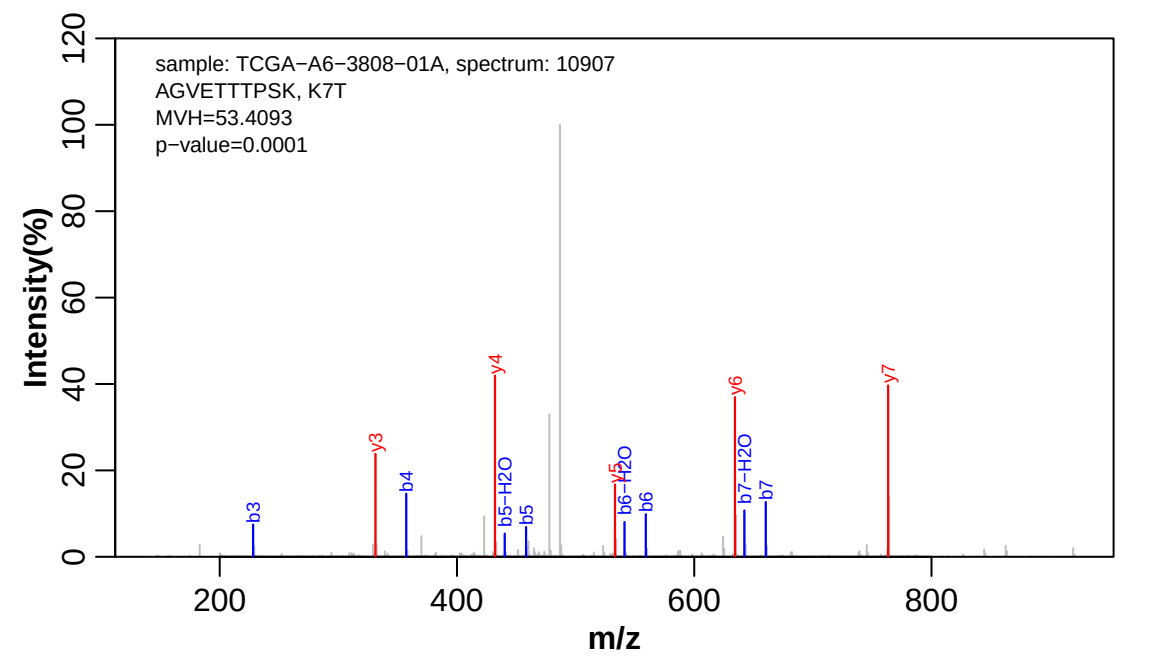

sample: TCGA−A6−3807−01A, spectrum: 115439
VQLPTESLQELLDLHR, T7S
MVH=37.7016
p−value=0.0001
y14++
y13++
b2
b3
y10++
b11++
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

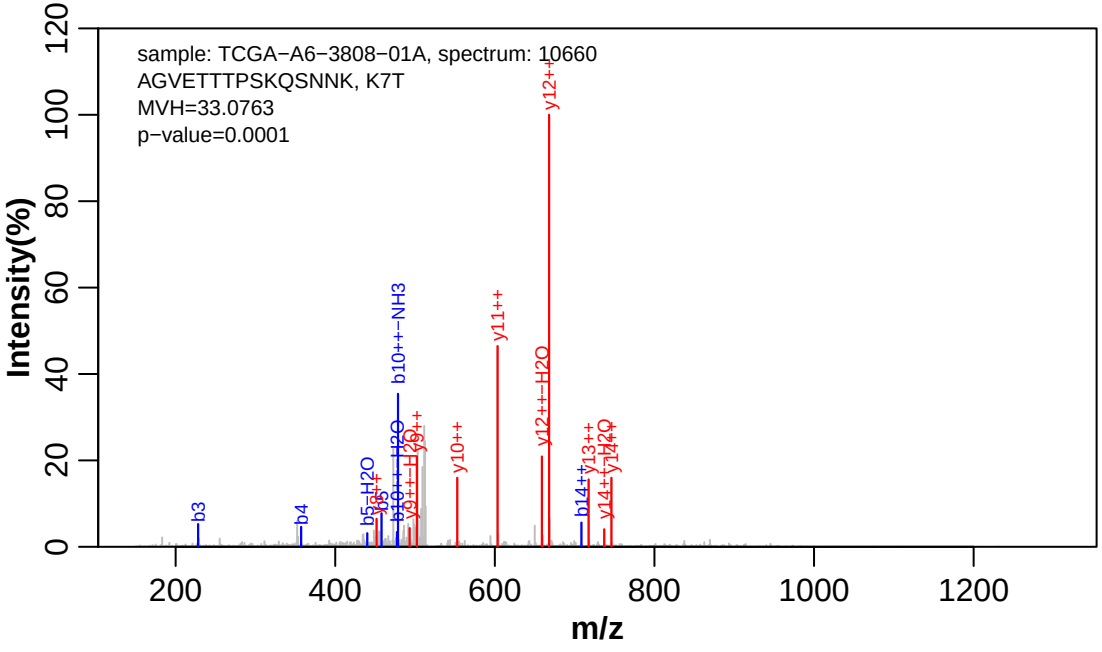

sample: TCGA−A6−3807−01A, spectrum: 135006
VQVLAAQLLSEMK, D11E
MVH=49.4804
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5
b5−NH3
b6−NH3
y5
b8−NH3
y7−H2O
y7
b9
b9−NH3
y9
y10−H2O
y10
b10
b11−NH3
b11
y11
b12

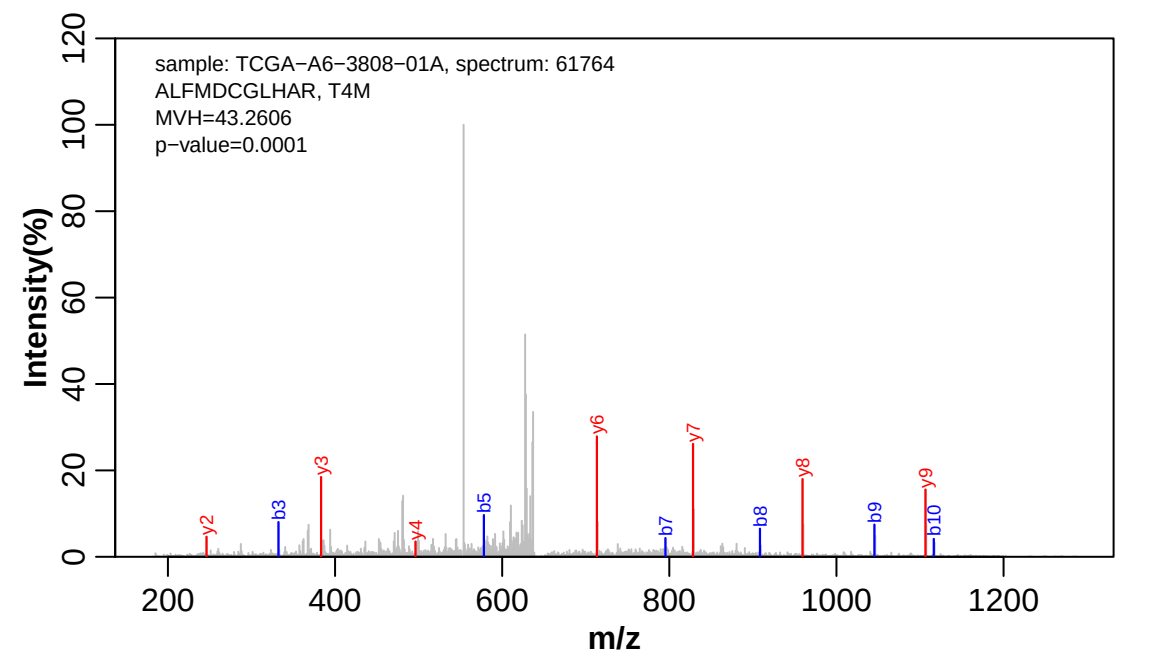

sample: TCGA−A6−3807−01A, spectrum: 154624
VVLQPEALFSLYSK, F8L
MVH=56.9589
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
y7
y10
y11
y12

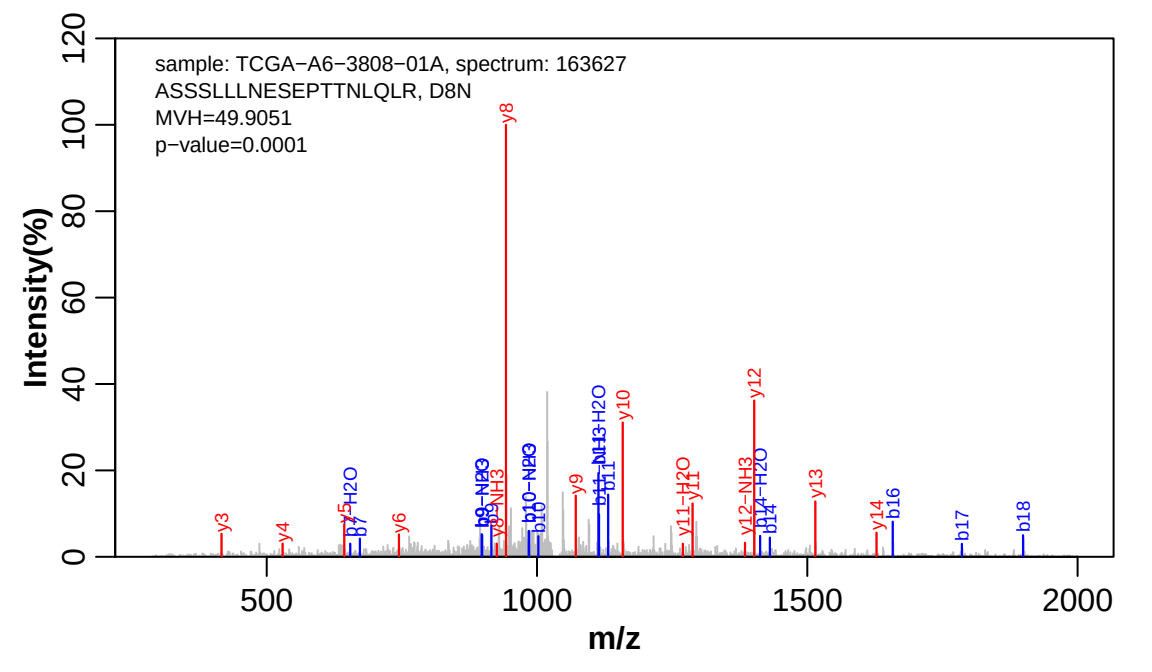

sample: TCGA−A6−3807−01A, spectrum: 71246
YVSLLYTNYEAGKDDYVK, I2V
MVH=30.5202
p−value=0.0001
b16+ N
y13++
b7
y5−H2O
y12++
y15++
b2
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

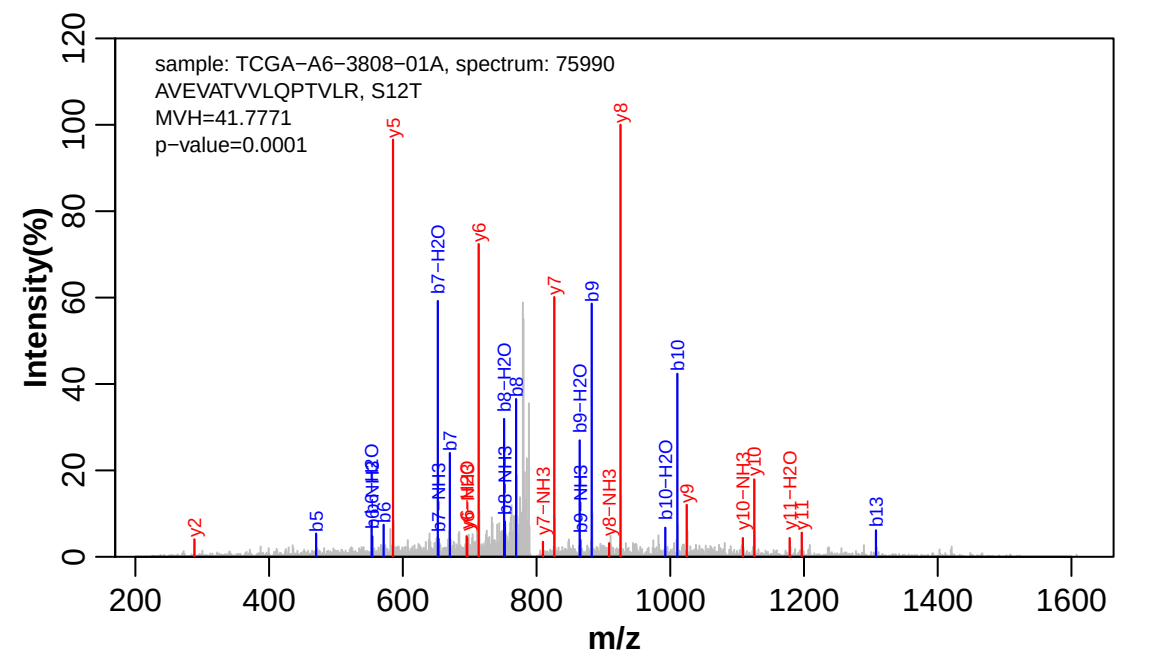

sample: TCGA−A6−3808−01A, spectrum: 52337
AAPSVTLFPPSSEELQANK, T2A
MVH=53.5284
p−value=0.0001
Intensity(%)
m/z
y11
y12
y13
y14
b7
b8−H2O
b8
0
20
40
60
80
100
120
500
1000
1500

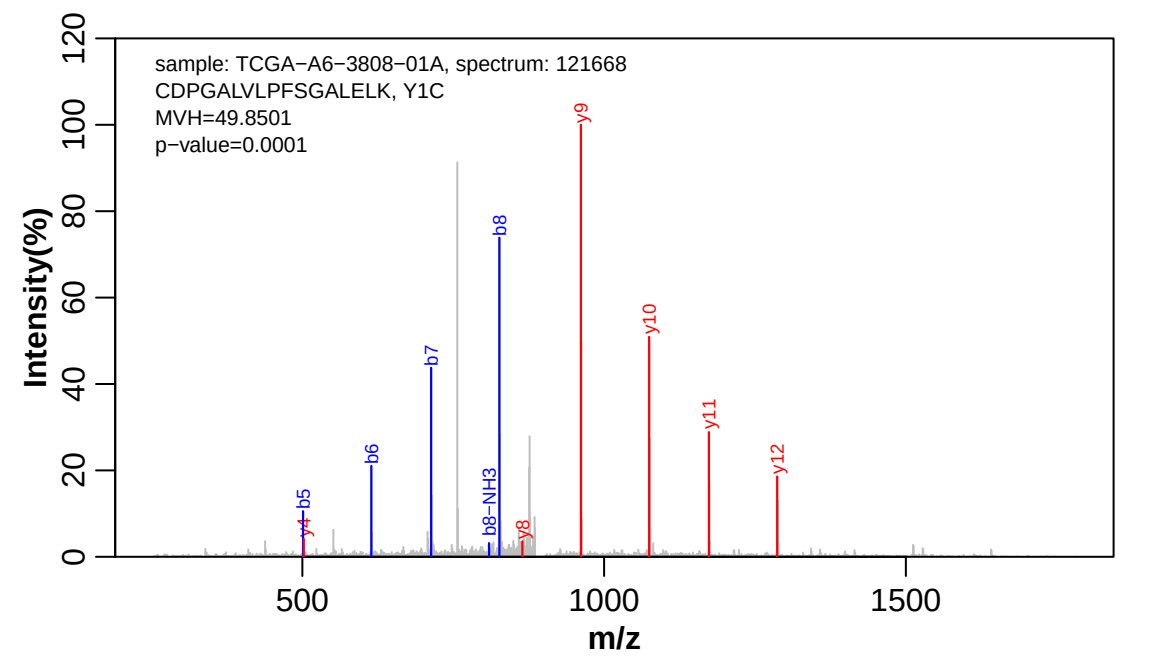

sample: TCGA−A6−3808−01A, spectrum: 10907
AGVETTTPSK, K7T
MVH=53.4093
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

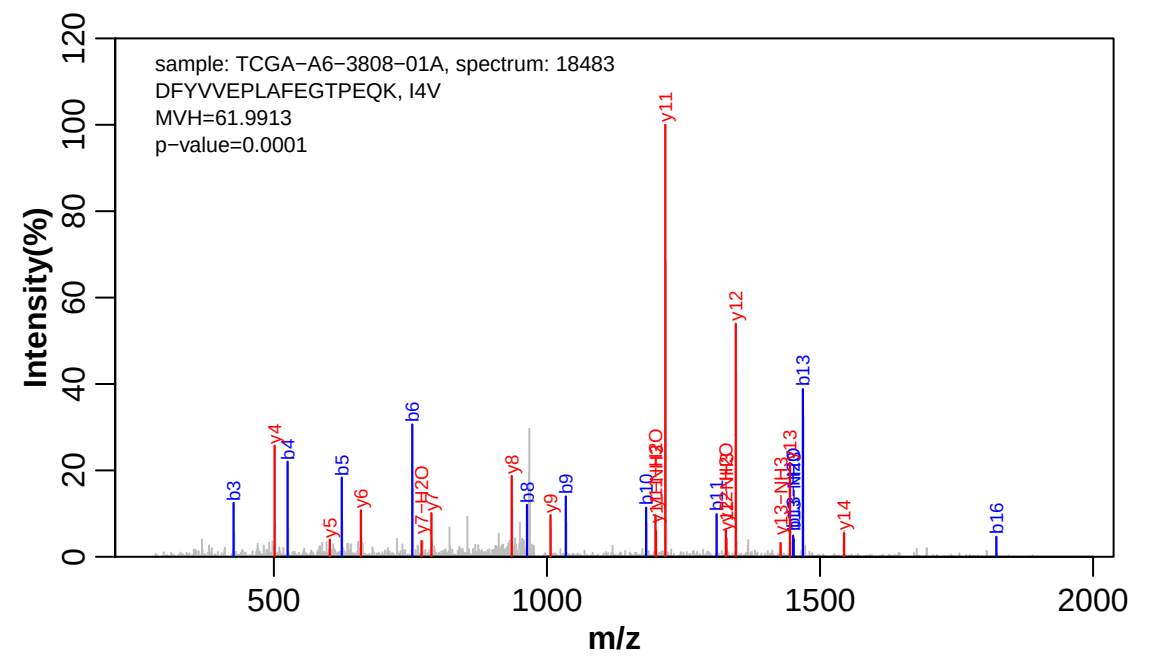

sample: TCGA−A6−3808−01A, spectrum: 10660
AGVETTTPSKQSNNK, K7T
MVH=33.0763
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
b4
b5−H2O
y8++
b10++−H2O
y9++−H2O
y9++
b10++−NH3
y10++
y11++
y12++−H2O
y12++
b14++
y13++
y14++−H2O
y14++

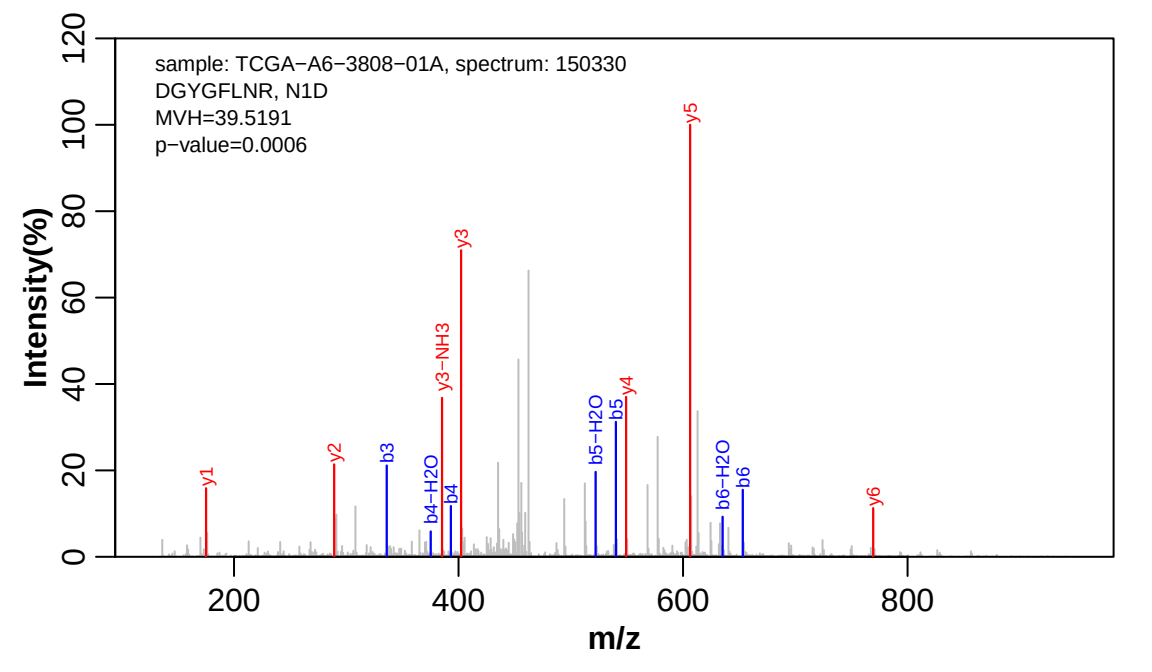

sample: TCGA−A6−3808−01A, spectrum: 61764
ALFMDCGLHAR, T4M
MVH=43.2606
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y2
b3
y3
y4
b5
y6
b7
y7
b8
y8
b9
y9
b10

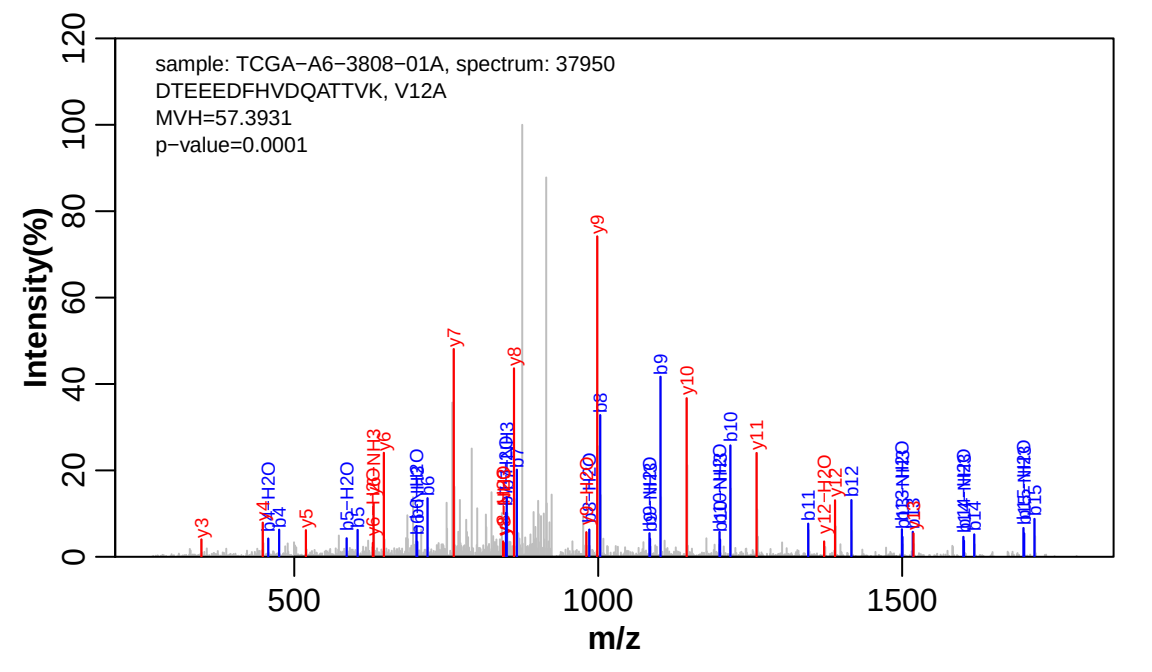

sample: TCGA−A6−3808−01A, spectrum: 163627
ASSSLLLNESEPTTNLQLR, D8N
MVH=49.9051
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
y5−H2O
b7
y6
b9−NH3
y9
b11−NH3−H2O
y10
y11−H2O
y11
y12
y12−NH3
b14−H2O
y13
y14
b16
b17
b18

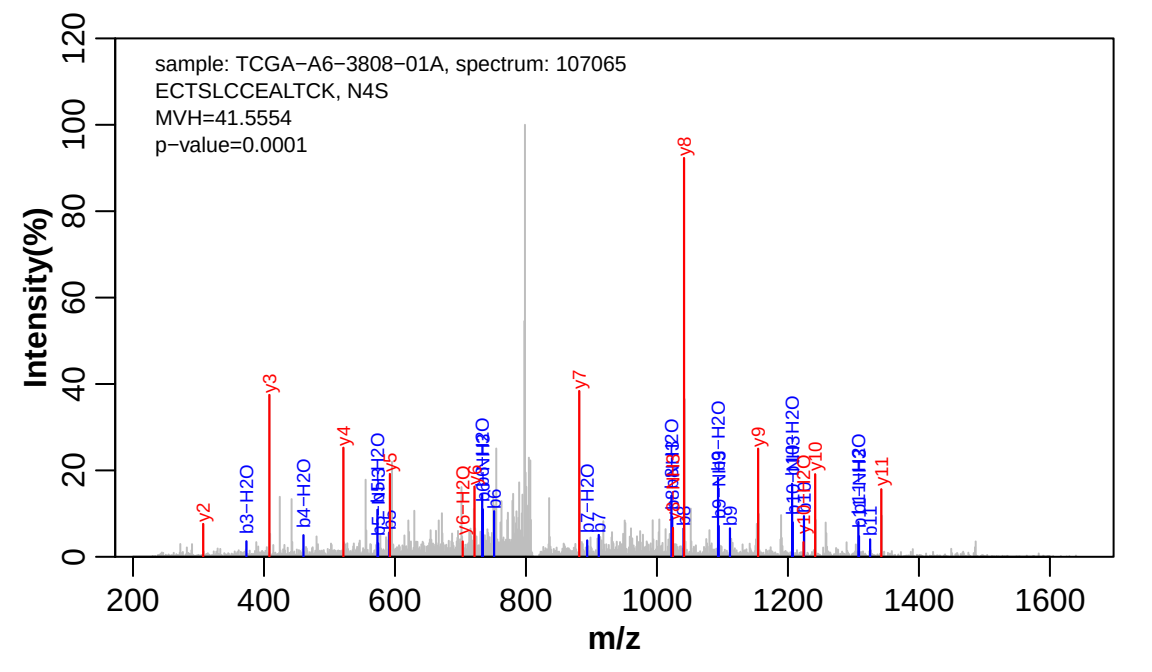

sample: TCGA−A6−3808−01A, spectrum: 75990
AVEVATVVLQPTVLR, S12T
MVH=41.7771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5
b6
b7−NH3
b7
b7−H2O
y5
y6
b8−NH3
b8
b8−H2O
y7−NH3
y7
b9−NH3
b9
b9−H2O
y8−NH3
y8
b10−H2O
b10
y9
y10−NH3
y10
y11−H2O
y11
b13

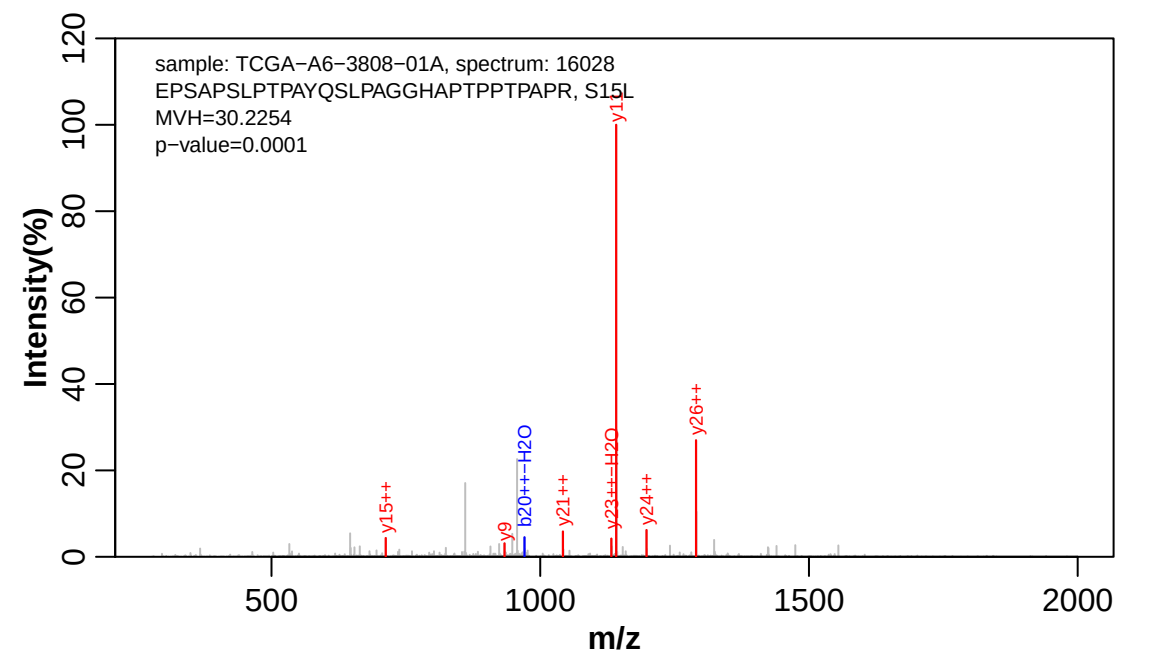

sample: TCGA−A6−3808−01A, spectrum: 121668
CDPGALVLPFSGALELK, Y1C
MVH=49.8501
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y9
b8
y10
b7
y11
b6
y12
y4−b5
b8−NH3
y8

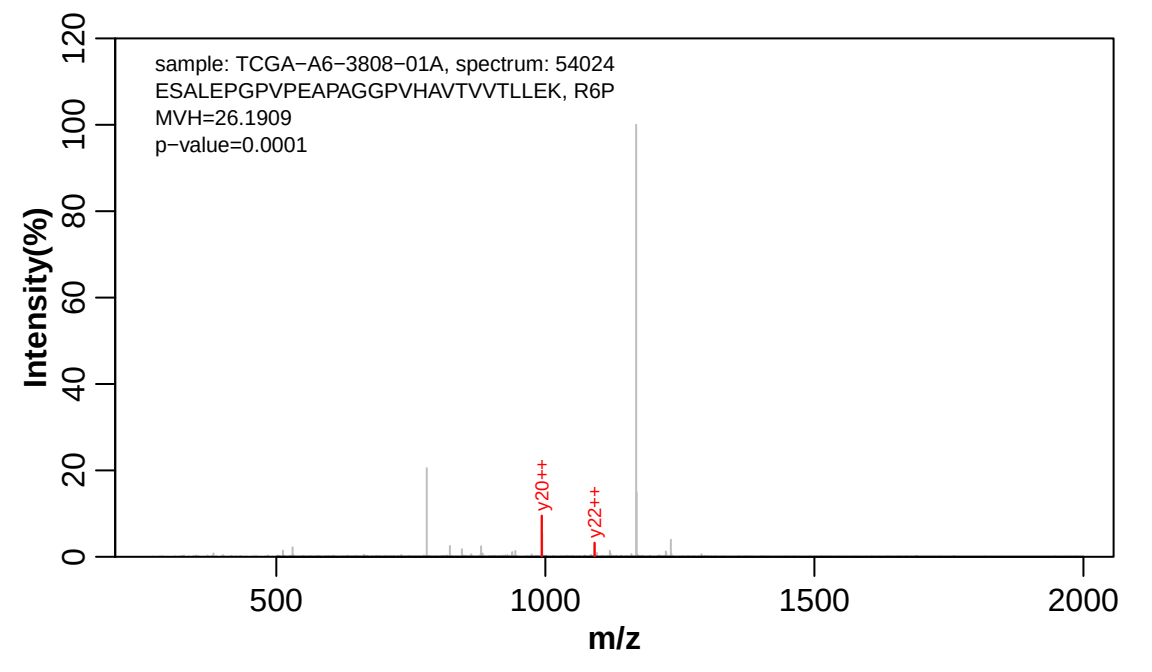

sample: TCGA−A6−3808−01A, spectrum: 18483
DFYVVEPLAFEGTPEQK, I4V
MVH=61.9913
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6
b6
y7−H2O
y8
b8
y9
b9
b10
y11−NH3
y11−H2O
b11
y12−NH3
y12−H2O
y13−NH3
b13
y14
b16
y11
y12
b13

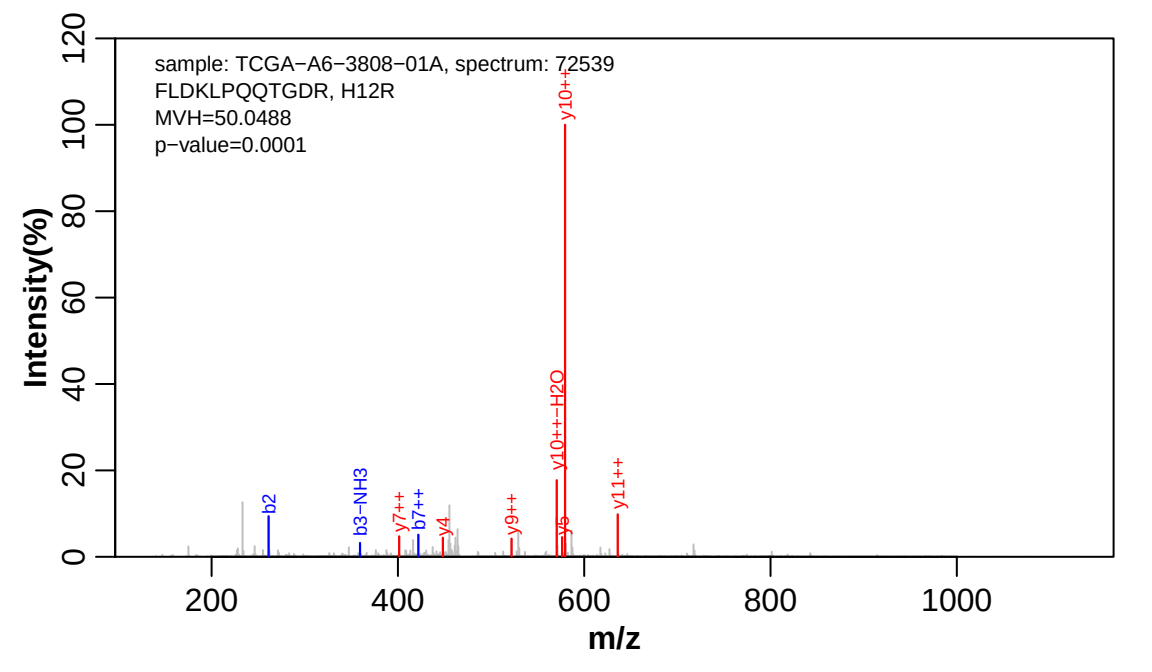

sample: TCGA−A6−3808−01A, spectrum: 150330
DGYGFLNR, N1D
MVH=39.5191
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

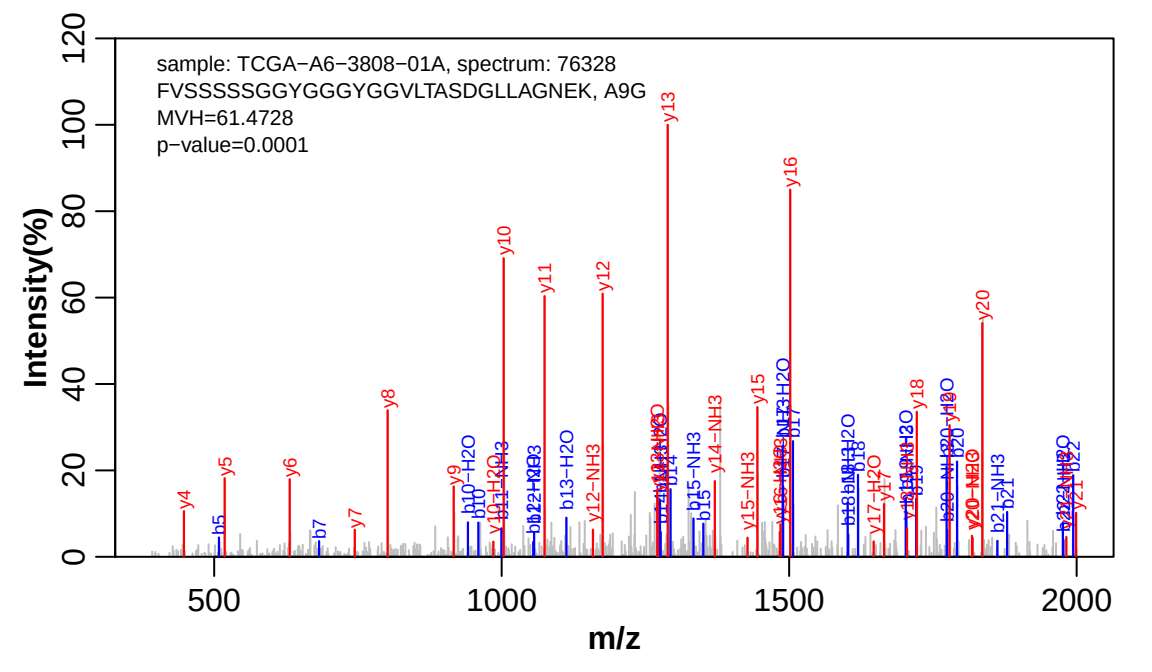

sample: TCGA−A6−3808−01A, spectrum: 37950
DTEEEDFHVDQATTVK, V12A
MVH=57.3931
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4
y4−H2O
y5
b5−H2O
b5
y6−H2O−NH3
y6
b6−H2O
b6
y7
y8
b7
y8−H2O
b8
y9
b9
y10
b10
y11
b11
y12−H2O
y12
b12
b14
b15

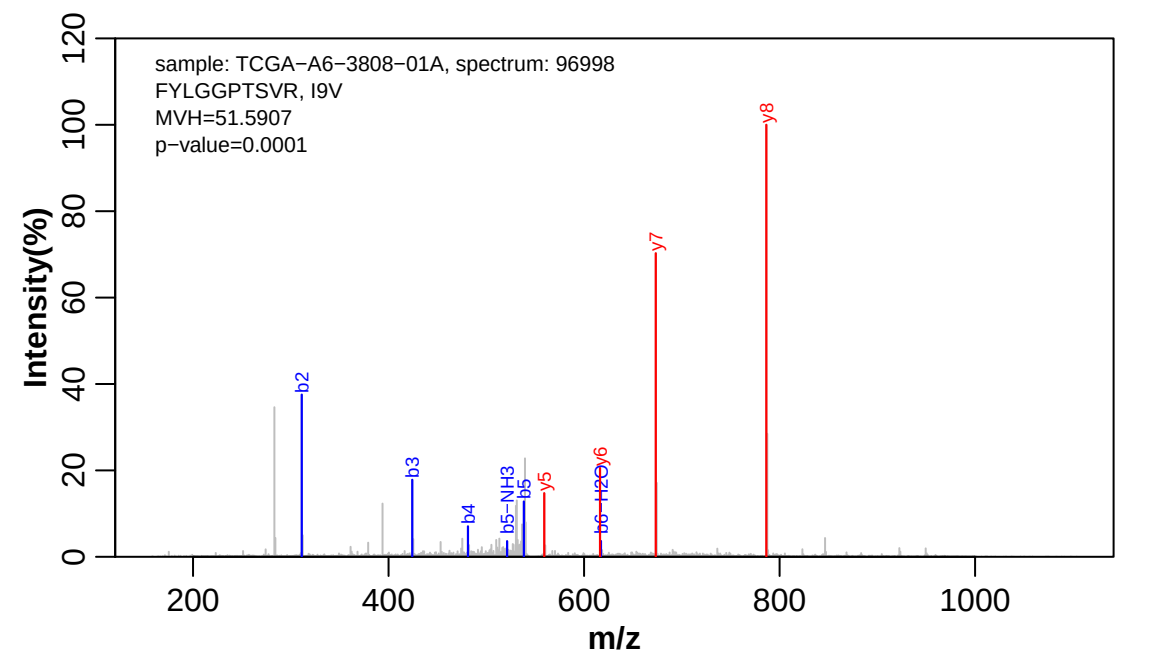

sample: TCGA−A6−3808−01A, spectrum: 107065
ECTSLCCEALTCK, N4S
MVH=41.5554
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
y6−H2O
y7
y8
y9
y10
y11
b3−H2O
b4−H2O
b6
b7−H2O
b9−H2O
b11

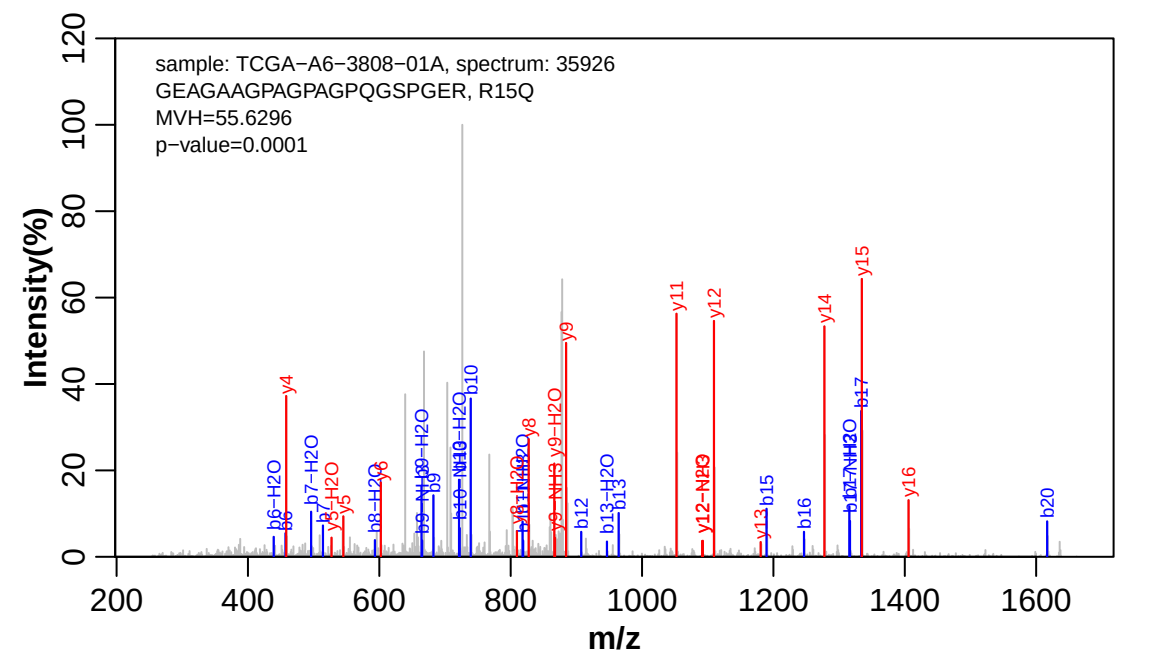

sample: TCGA−A6−3808−01A, spectrum: 16028
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=30.2254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y15++
y9
b20++−H2O
y21++
y23++−H2O
y24++
y26++
y11

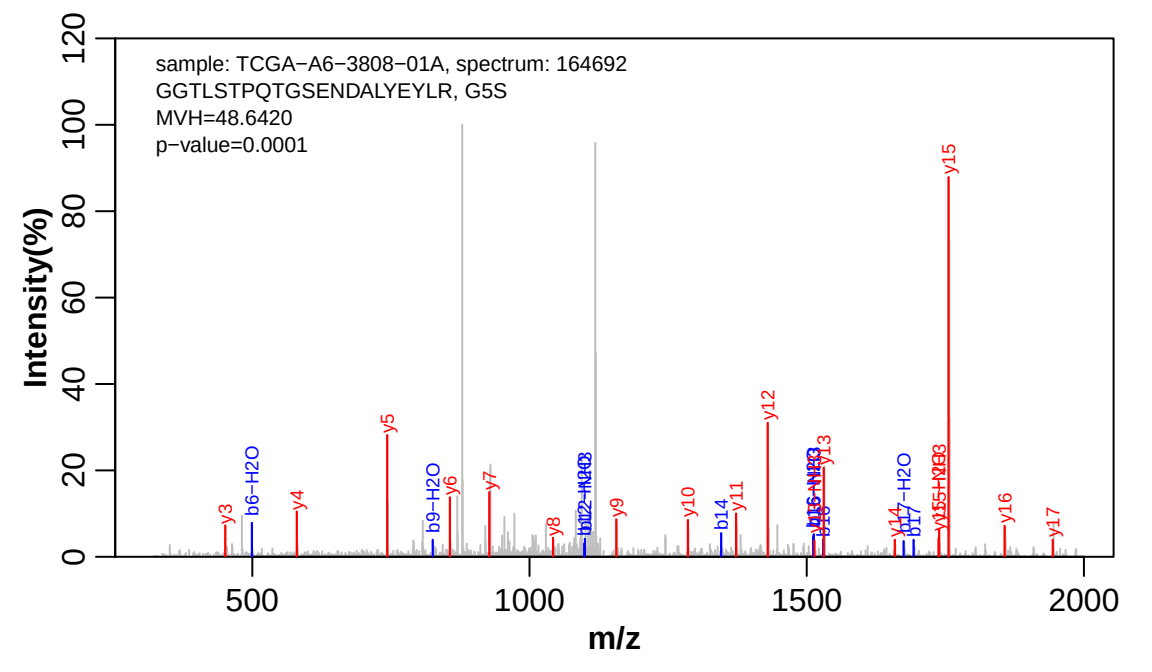

sample: TCGA−A6−3808−01A, spectrum: 54024
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=26.1909
p−value=0.0001
y20++
y22++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

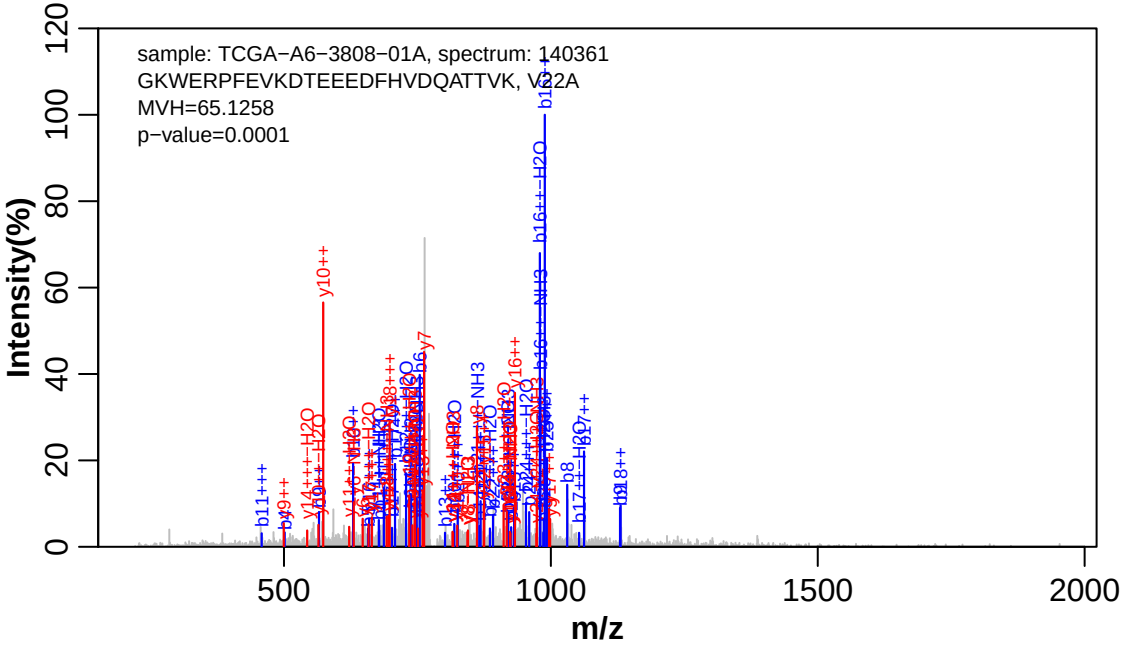

sample: TCGA−A6−3808−01A, spectrum: 72539
FLDKLPQQTGDR, H12R
MVH=50.0488
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−NH3
y7++
b7++
y4
y9++
y10++−H2O
y8
y10++
y11++

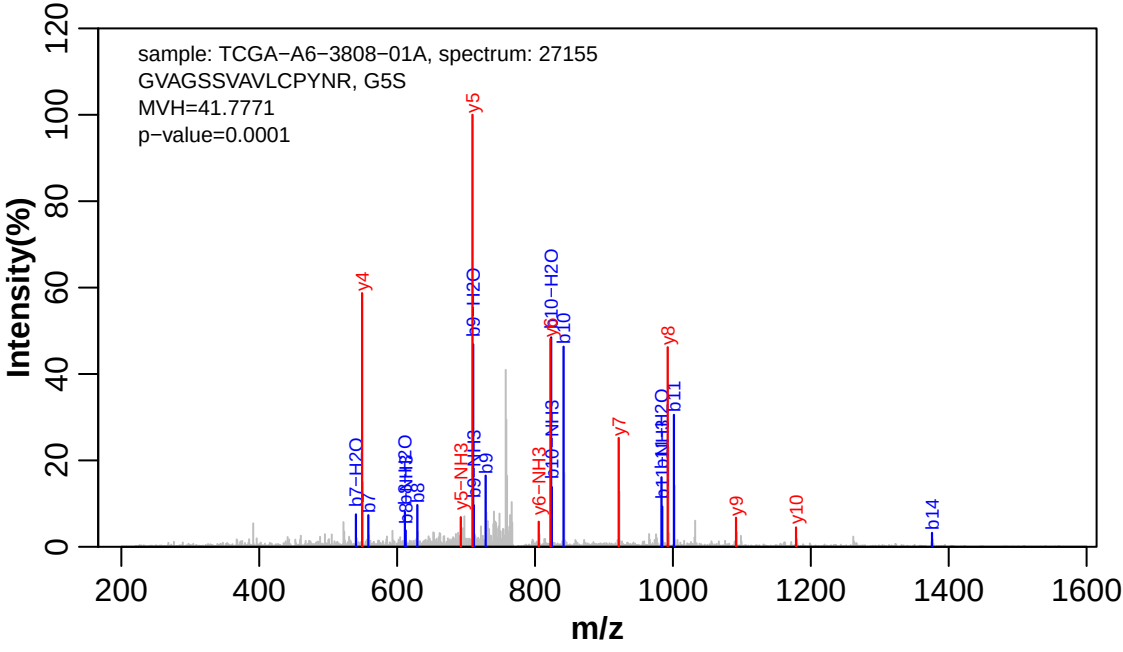

sample: TCGA−A6−3808−01A, spectrum: 76328
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=61.4728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y13
y16
y10
y11
y12
y8
y20
y15
y14−NH3
y15−NH3
y12−NH3
b13−H2O
y4
y5
y6
b5
b7
y7
y9
b10−H2O
b15−NH3
y17−H2O
y18
b21−NH3

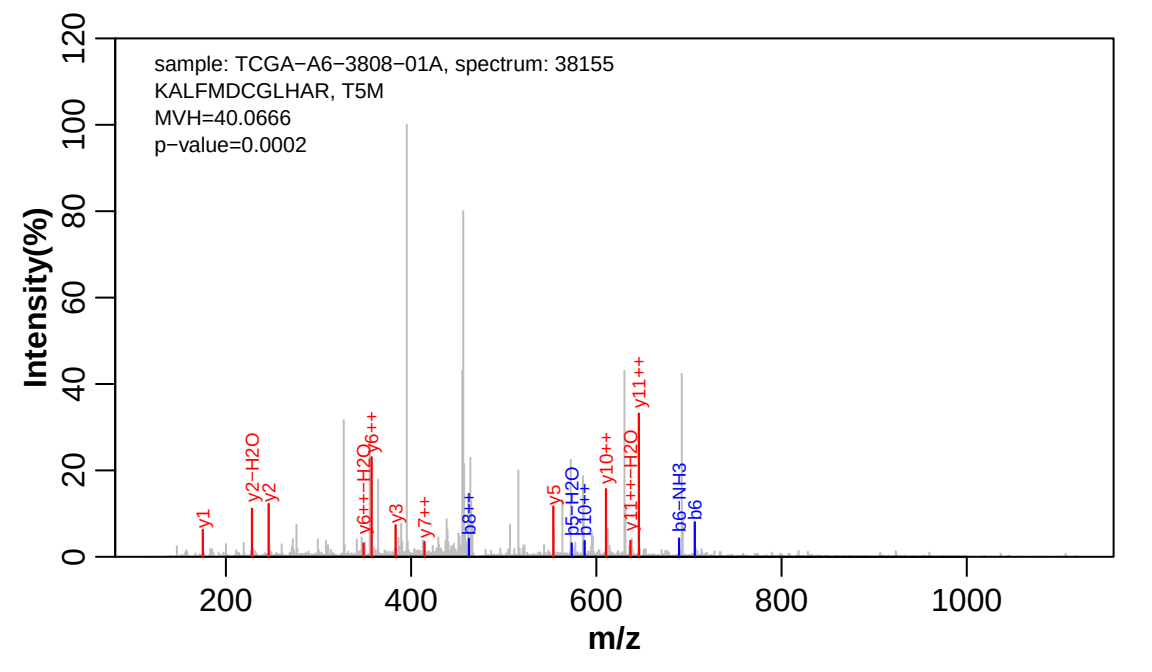

sample: TCGA−A6−3808−01A, spectrum: 96998
FYLGGPTSVR, I9V
MVH=51.5907
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5−NH3
b5
y5
b6−H2O
y6
y7
y8

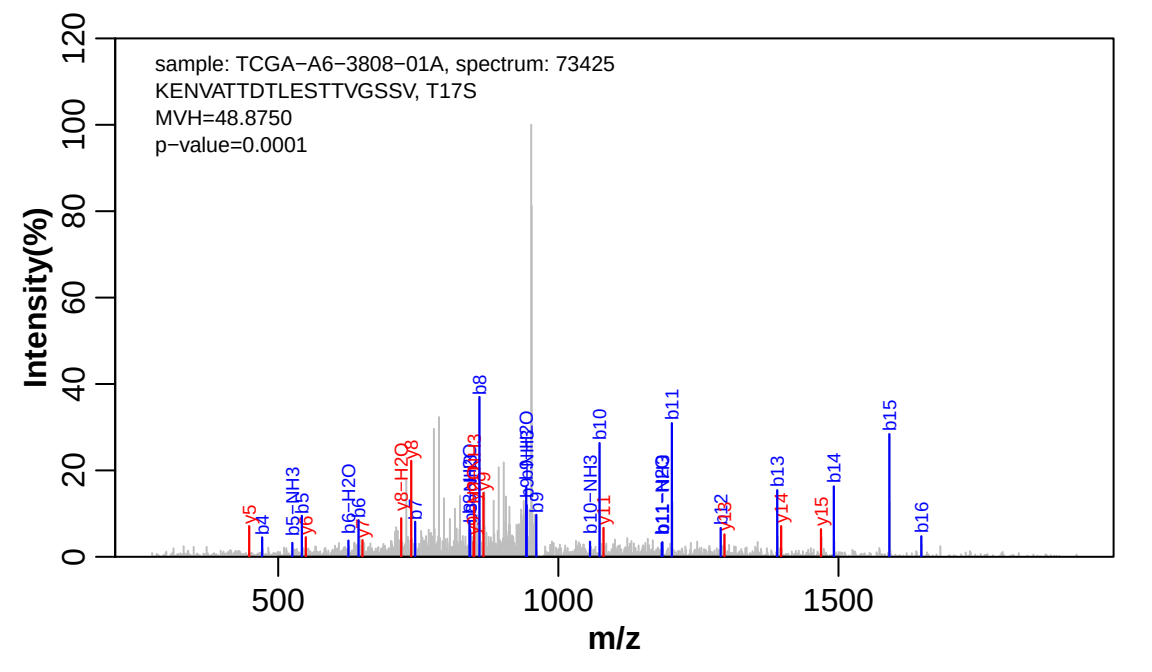

sample: TCGA−A6−3808−01A, spectrum: 35926
GEAGAAGPAGPAGPQGSPGER, R15Q
MVH=55.6296
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
b6−H2O
b8
b7−H2O
y5
b8−H2O
y6
b9−NH3
b9
b9−H2O
b10−NH3
b10−H2O
b10
y8
y8−H2O
y8−NH3
y9−NH3
y9−H2O
y9
b12
b13−H2O
b13
y11
y12−NH3
y12−H2O
y12
y13
b15
b16
y14
b17−NH3
b17−H2O
b17
y15
y16
b20

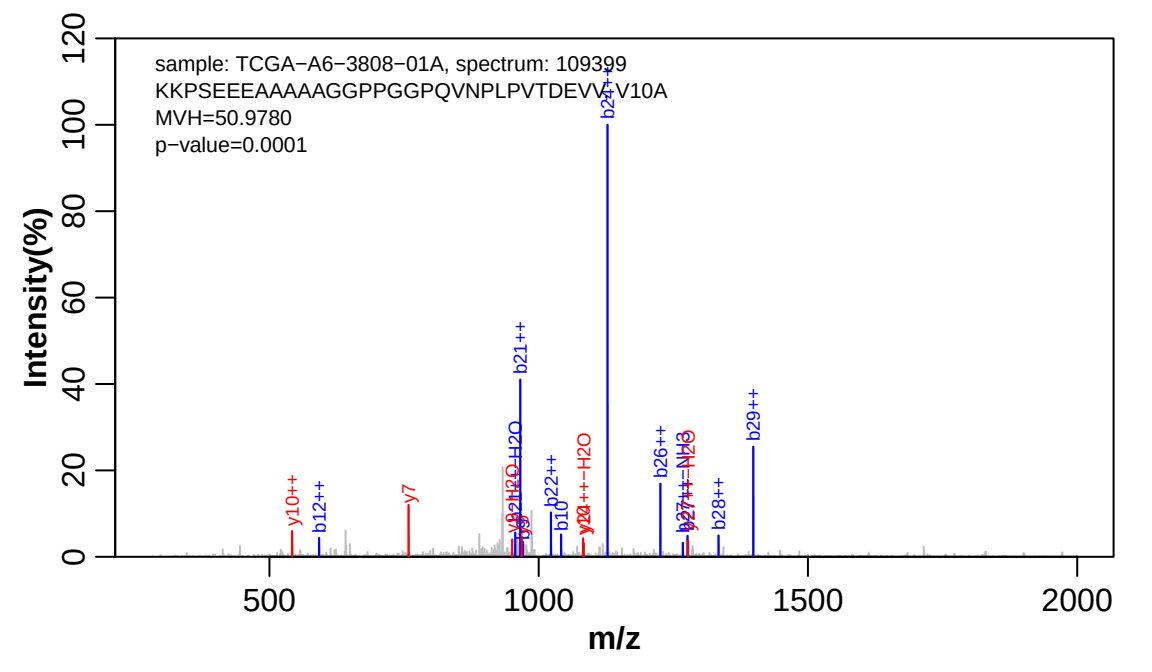

sample: TCGA−A6−3808−01A, spectrum: 164692
GGTLSTPQTGSENDALYEYLR, G5S
MVH=48.6420
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b6−H2O
y4
y5
b9−H2O
y6
y7
y8
y9
y10
b14
y11
y12
y13
y14
b17−H2O
y15
y16
y17

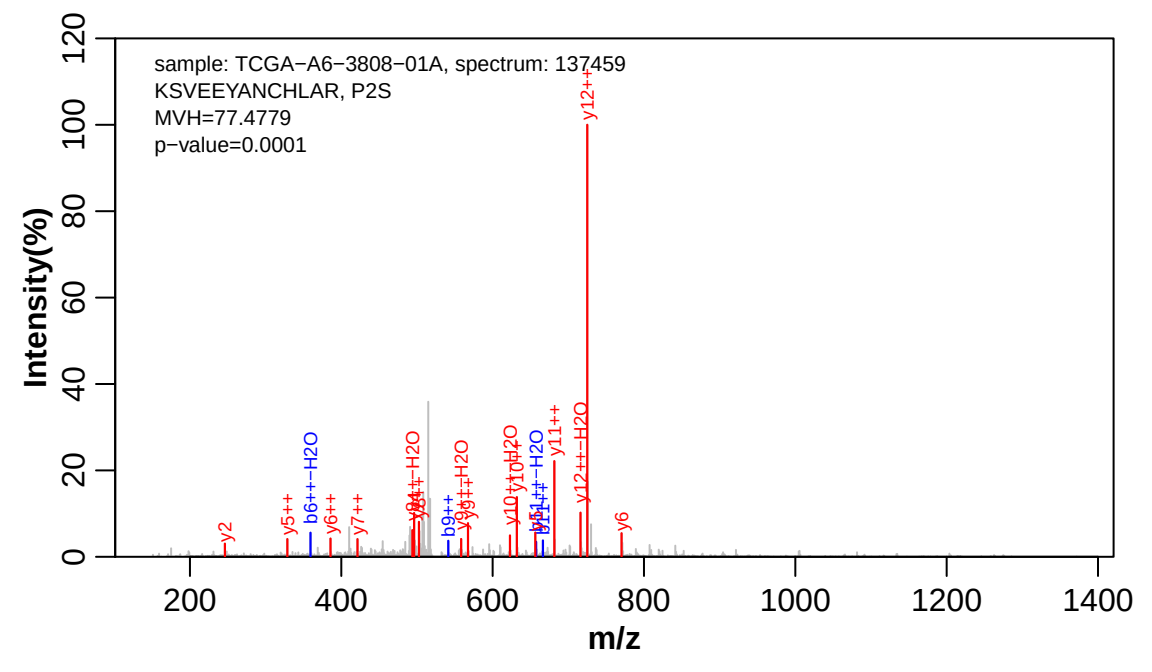

sample: TCGA−A6−3808−01A, spectrum: 140361
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=65.1258
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b11+++
b9++
y10++
b13++
b16++−H2O
b16++−NH3
b16++
b17++−H2O
b8
b18++

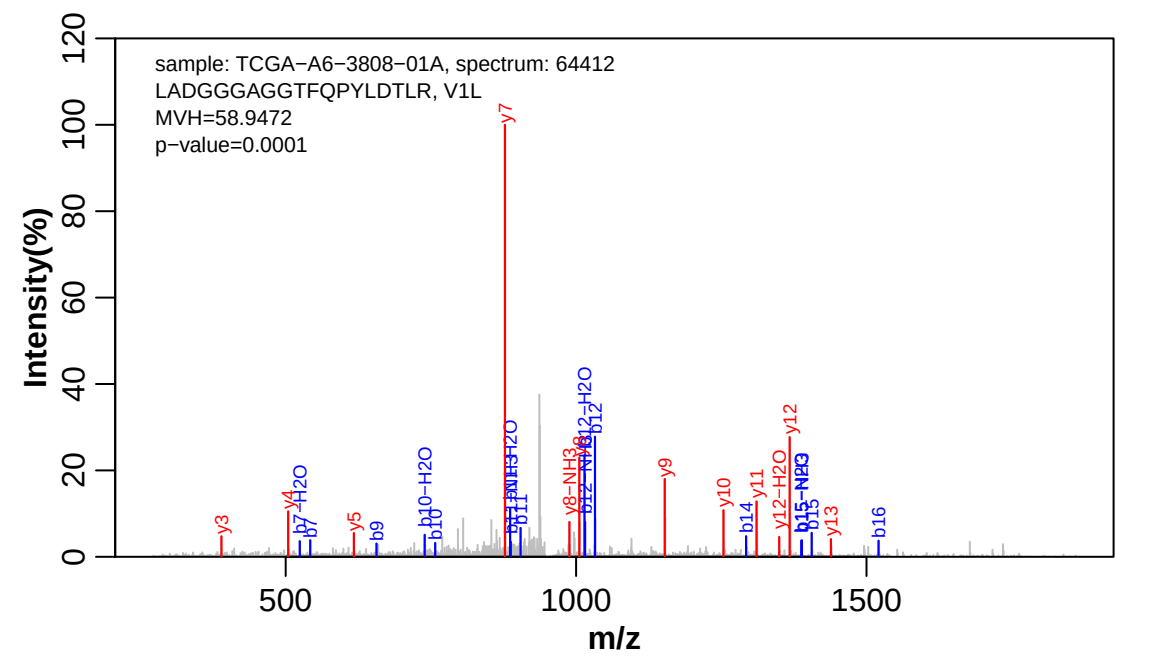

sample: TCGA−A6−3808−01A, spectrum: 27155
GVAGSSVAVLCPYNR, G5S
MVH=41.7771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y4
b9−H2O
y10−H2O
b10
y8
b11
y7
b7−H2O
b7
y5−NH3
b9−NH3
b9
y6−NH3
b8
y9
y10
b14

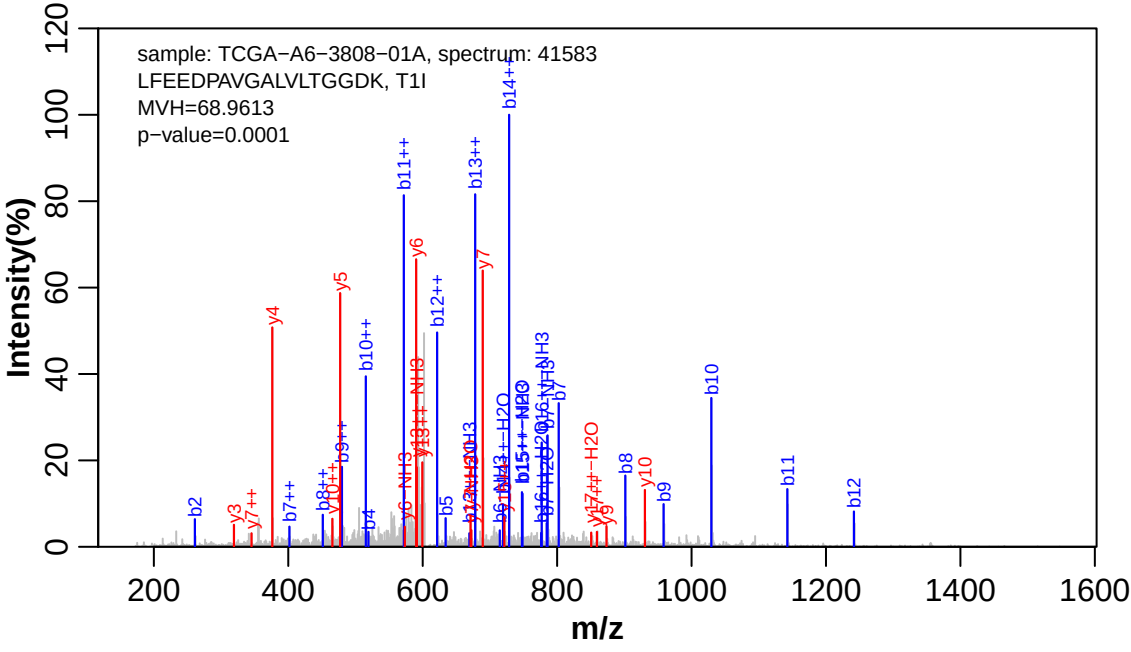

sample: TCGA−A6−3808−01A, spectrum: 38155
KALFMDCGLHAR, T5M
MVH=40.0666
p−value=0.0002
Intensity(%)
m/z
y1
y2−H2O
y2
y6++−H2O
y6++
y3
y7++
b8++
y5
b5−H2O
b10++
y10++
y11++−H2O
y11++
b6−NH3
b6

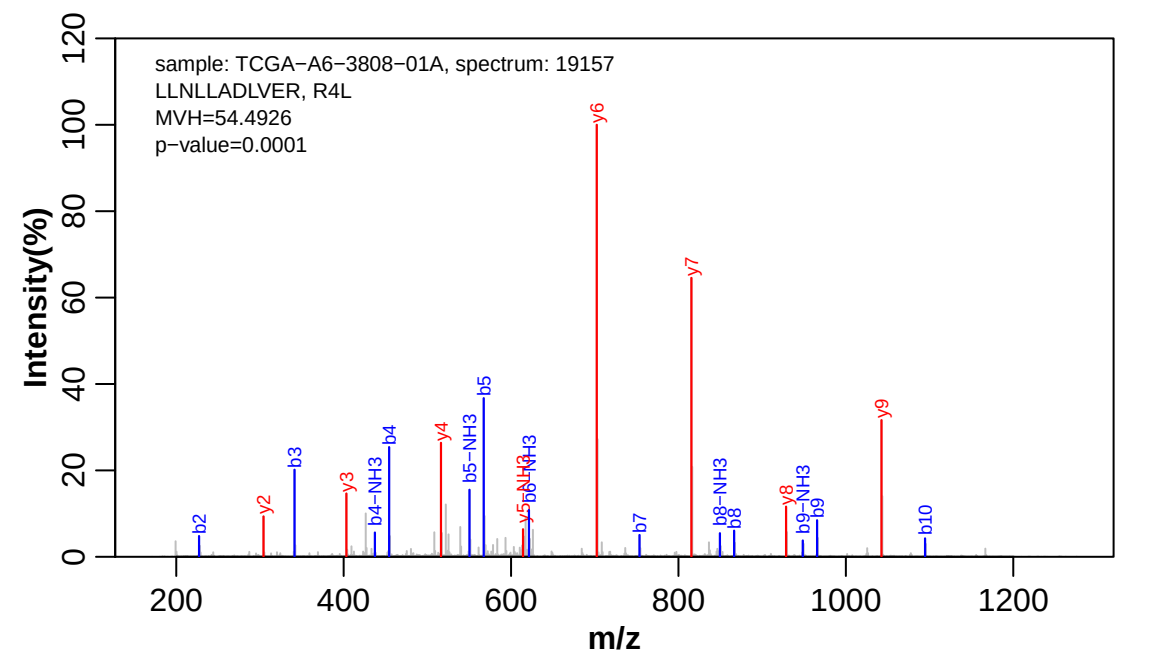

sample: TCGA−A6−3808−01A, spectrum: 73425
KENVATTDTLESTTVGSSV, T17S
MVH=48.8750
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b4
b5−NH3
y6
b6−H2O
y7
b6
y8−H2O
y8
b7
b8
b10−NH3
b10
y11
b11
b12
y14
b13
y15
b14
b15
b16

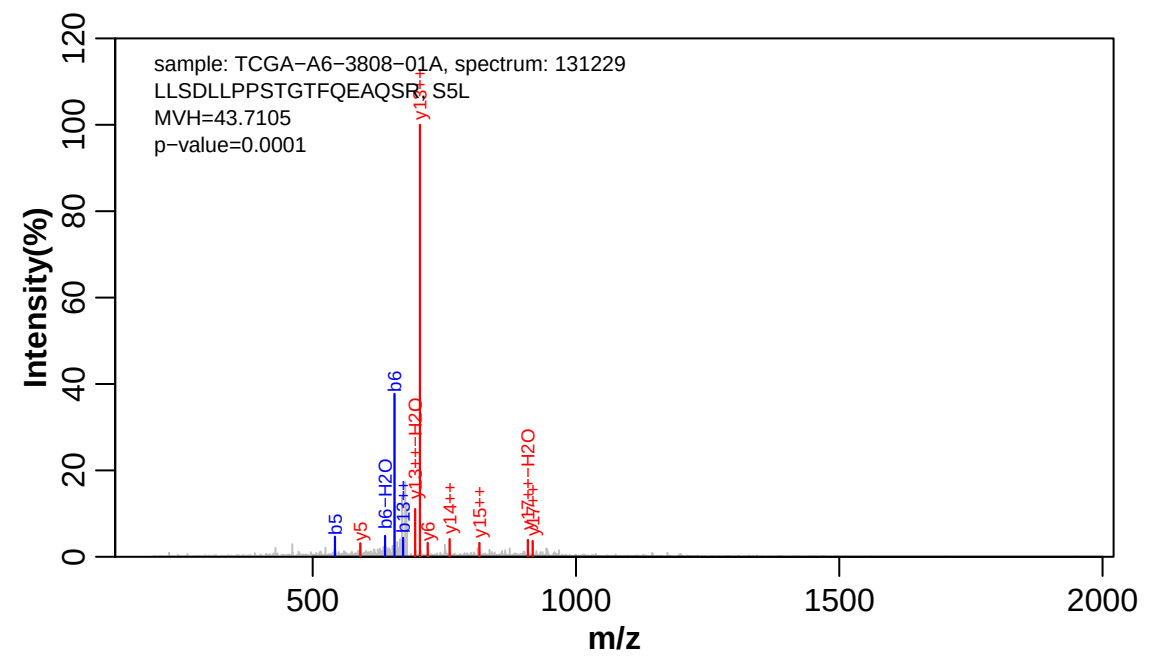

sample: TCGA−A6−3808−01A, spectrum: 109399
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=50.9780
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b12++
y7
b21++
b22++
b24++
b26++
b28++
b29++

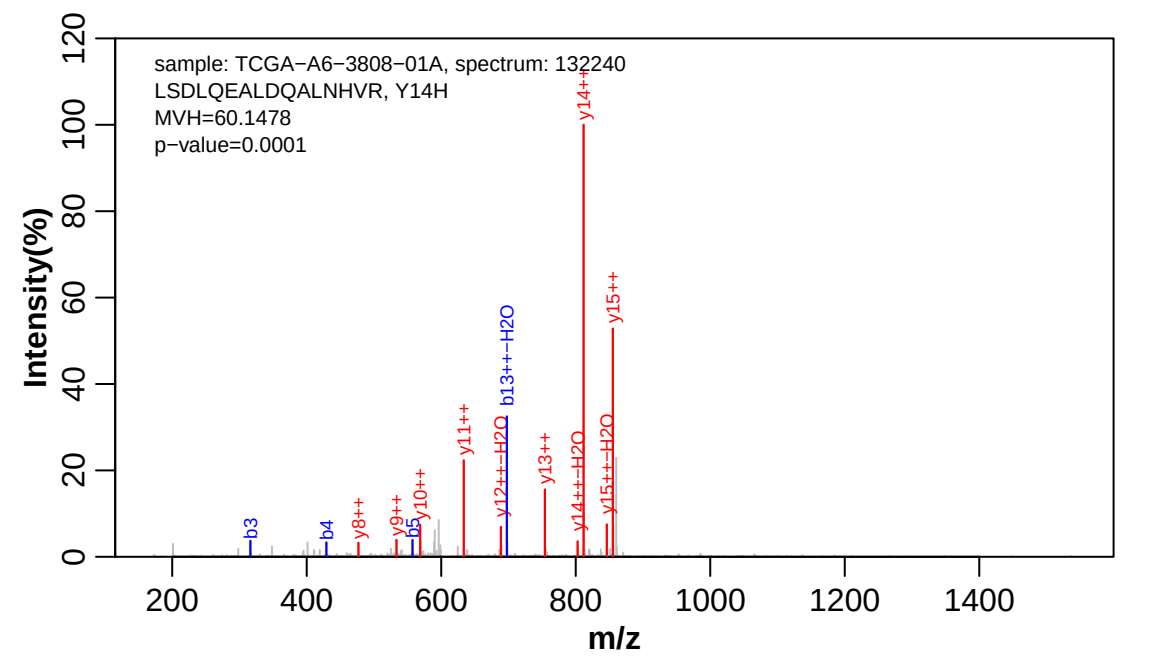

sample: TCGA−A6−3808−01A, spectrum: 137459
KSVEEYANCHLAR, P2S
MVH=77.4779
p−value=0.0001
Intensity(%)
m/z
y12++
y2
y5++
b6++−H2O
y6++
y7++
b9++
y11++
y12++−H2O
y6

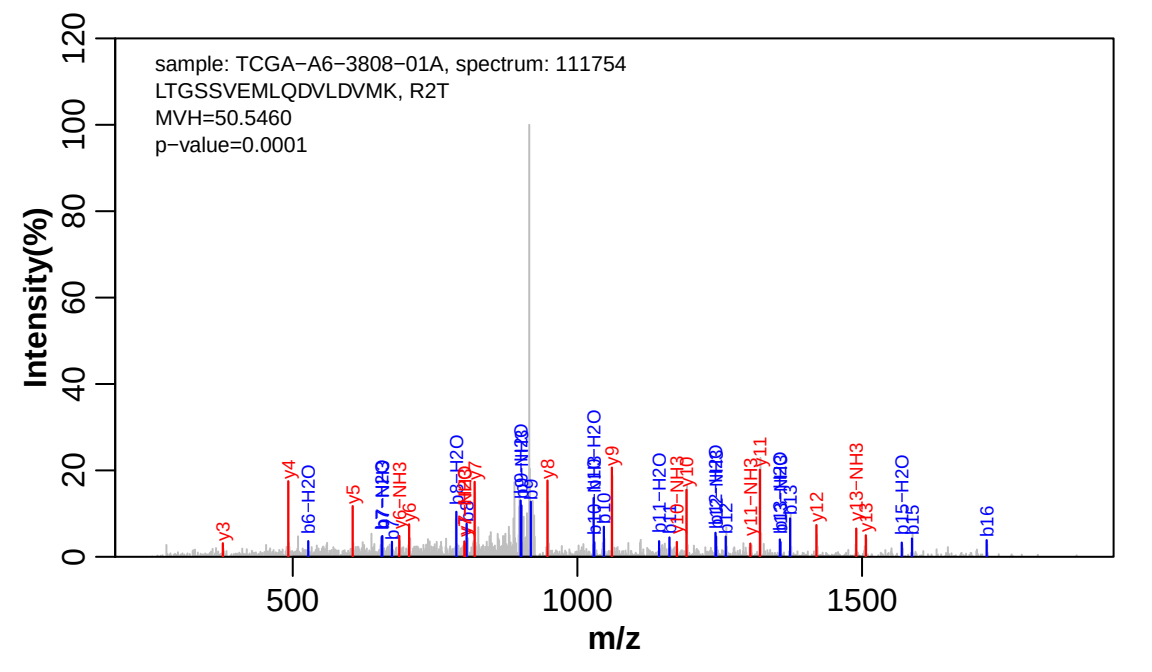

sample: TCGA−A6−3808−01A, spectrum: 64412
LADGGGAGGTFQPYLDTLR, V1L
MVH=58.9472
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b7
y5
b9
b10−H2O
b10
b11−NH3−H2O
b11
y8−NH3
b12−NH3
b12−H2O
b12
y9
y10
b14
y11
y12−H2O
y12
b15−NH3
b15
y13
b16

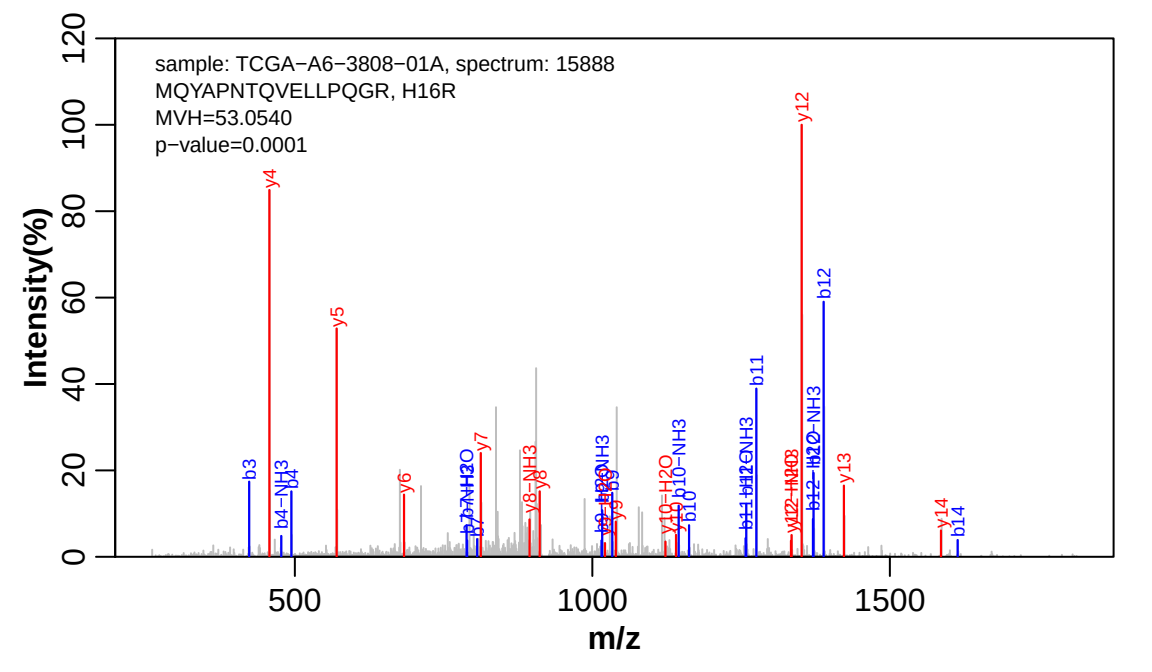

sample: TCGA−A6−3808−01A, spectrum: 41583
LFEEDPAVGALVLTGGDK, T1I
MVH=68.9613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
y7++
y4
b7++
b8++
y10++
b9++
y5
b10++
b4
y6−NH3
b5
b11++
y6
b12++
b13++
y7
b14++
b10
b11
b12

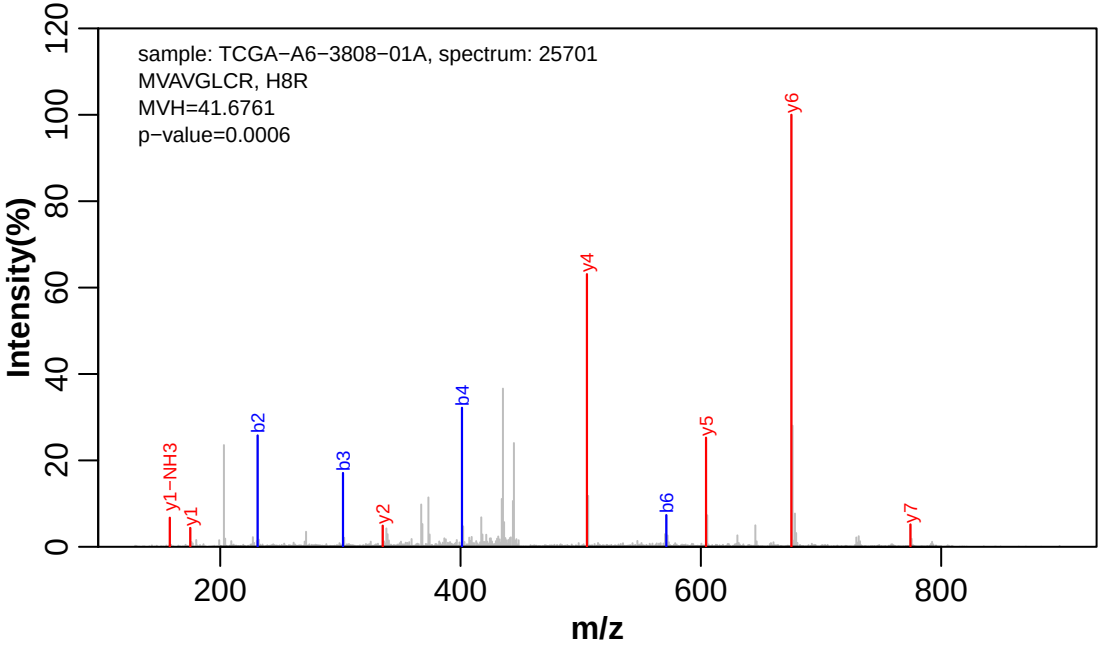

sample: TCGA−A6−3808−01A, spectrum: 19157
LLNLLADLVER, R4L
MVH=54.4926
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y4
y3
y2
b5
b4
b3
b2
b7
b10
b5−NH3
b4−NH3
b8−NH3
b9−NH3
b8
b9
y5−NH3
b6−NH3

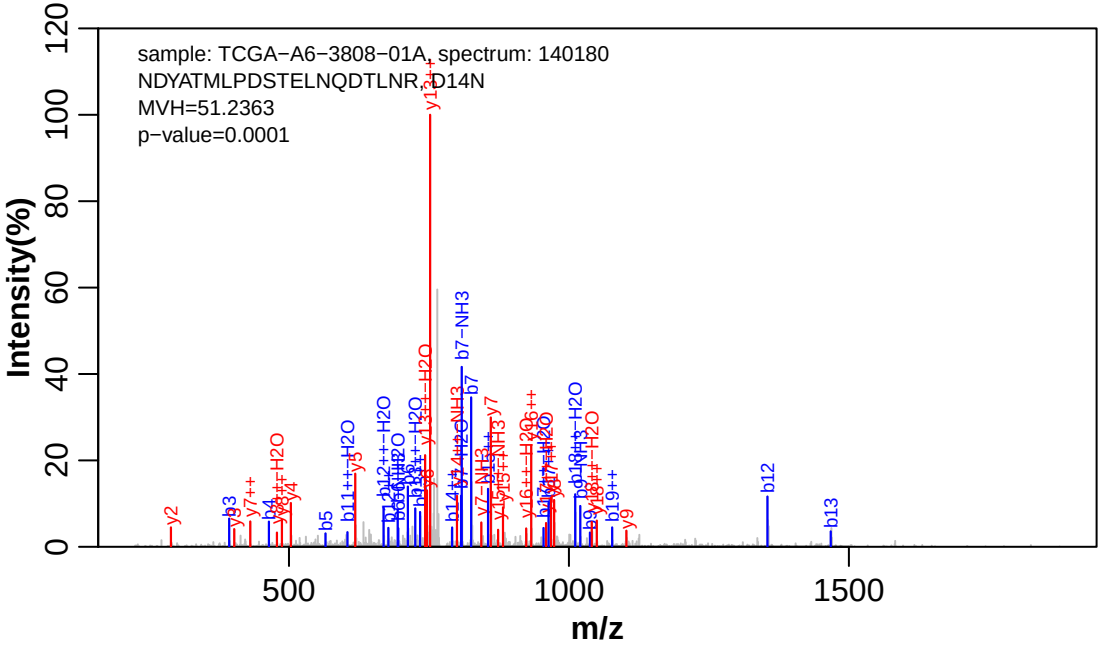

sample: TCGA−A6−3808−01A, spectrum: 131229
LLSDLLPPSTGTFQEAQSR, S5L
MVH=43.7105
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y5
b6−H2O
b13++
b6
y13++−H2O
y6
y14++
y15++
y17++−H2O
y13++

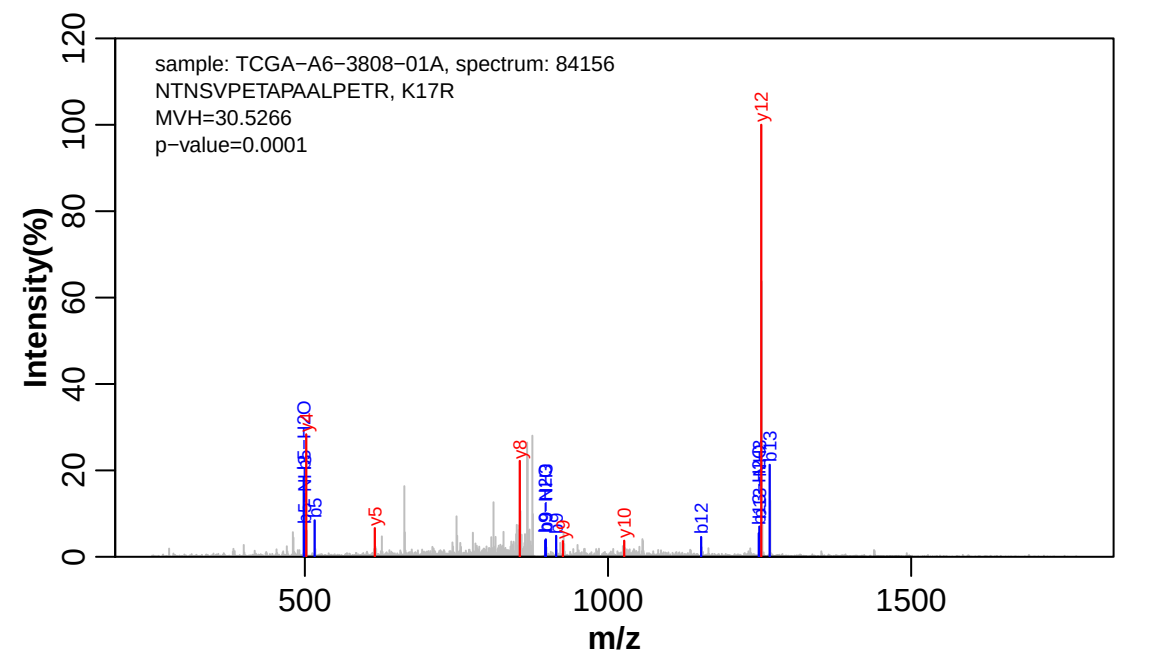

sample: TCGA−A6−3808−01A, spectrum: 132240
LSDLQEALDQALNHVR, Y14H
MVH=60.1478
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
b4
y8++
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

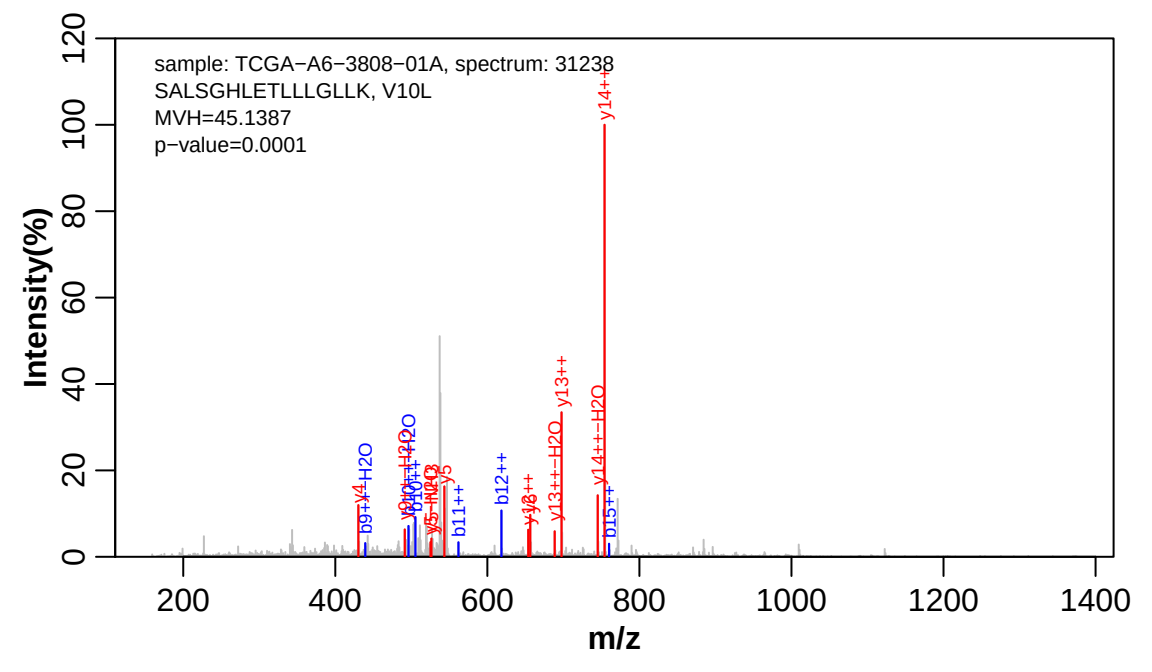

sample: TCGA−A6−3808−01A, spectrum: 111754
LTGSSVEMLQDVLDVMK, R2T
MVH=50.5460
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b6−H2O
y5
b7−NH3
y6
y6−NH3
b8−H2O
y7
y8
b10−NH3
b10−H2O
y9
b11−H2O
y10
y10−NH3
b12−NH3
y11
y11−NH3
b13−H2O
y12
y13−NH3
b15−H2O
b16

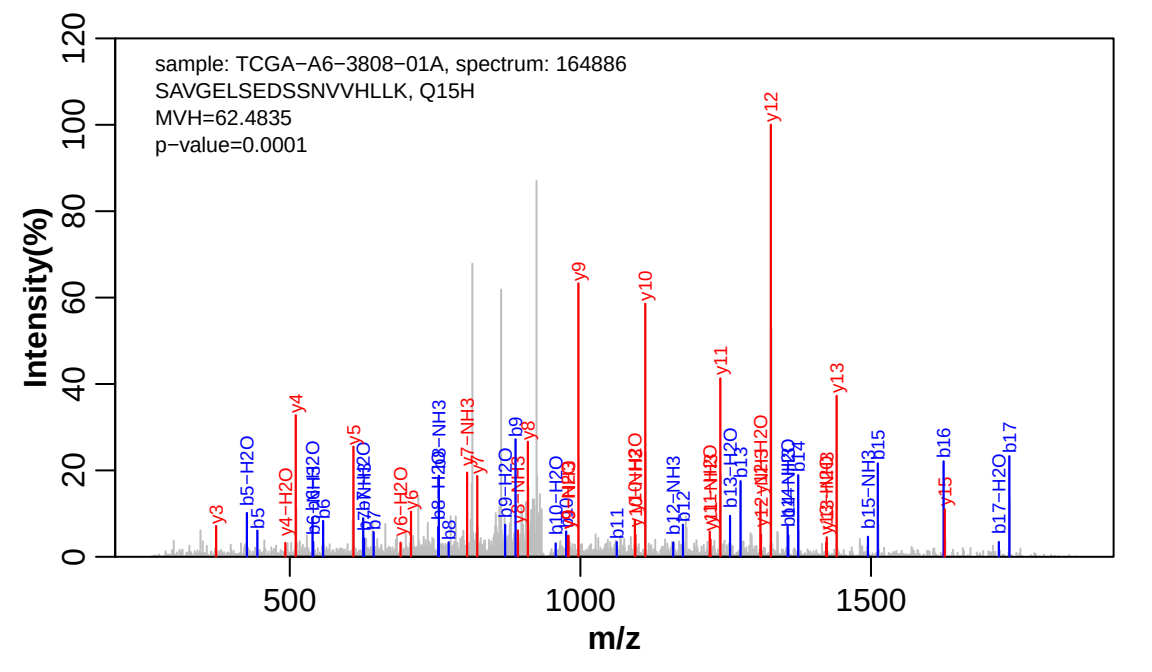

sample: TCGA−A6−3808−01A, spectrum: 15888
MQYAPNTQVELLPQGR, H16R
MVH=53.0540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y8−NH3
y10−H2O
y10−NH3
y12
y12−NH3
y13
y14
b3
b4
b4−NH3
b10
b10−NH3
b11
b12
b12−NH3
b14

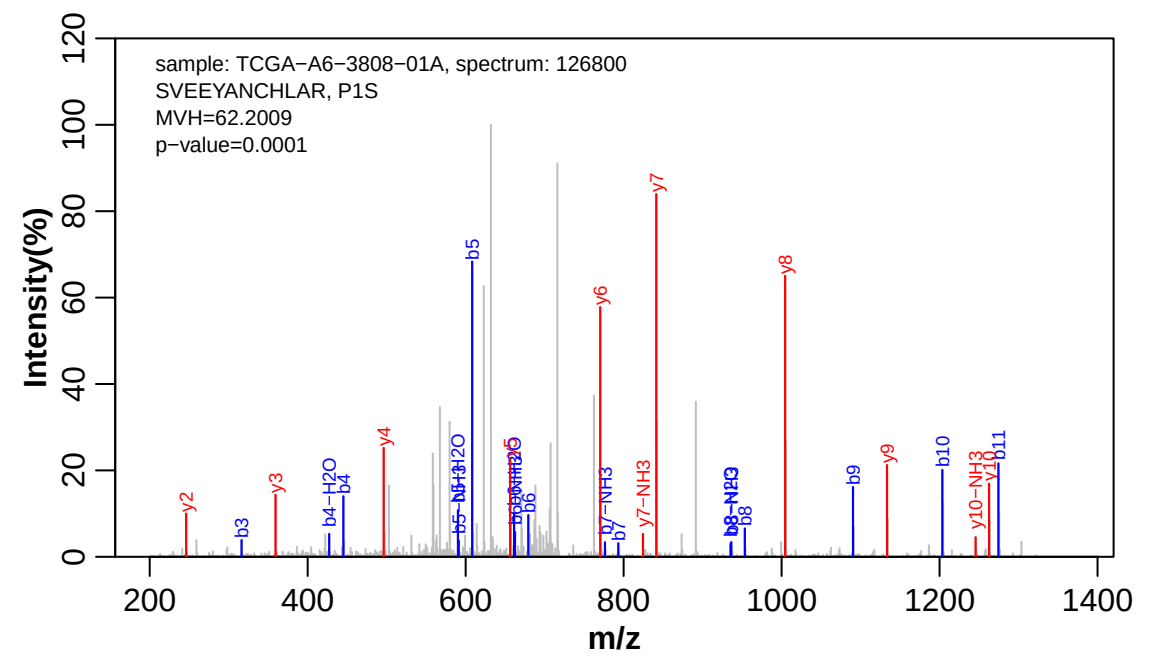

sample: TCGA−A6−3808−01A, spectrum: 25701
MVAVGLCR, H8R
MVH=41.6761
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y2
b4
y4
b6
y5
y6
y7

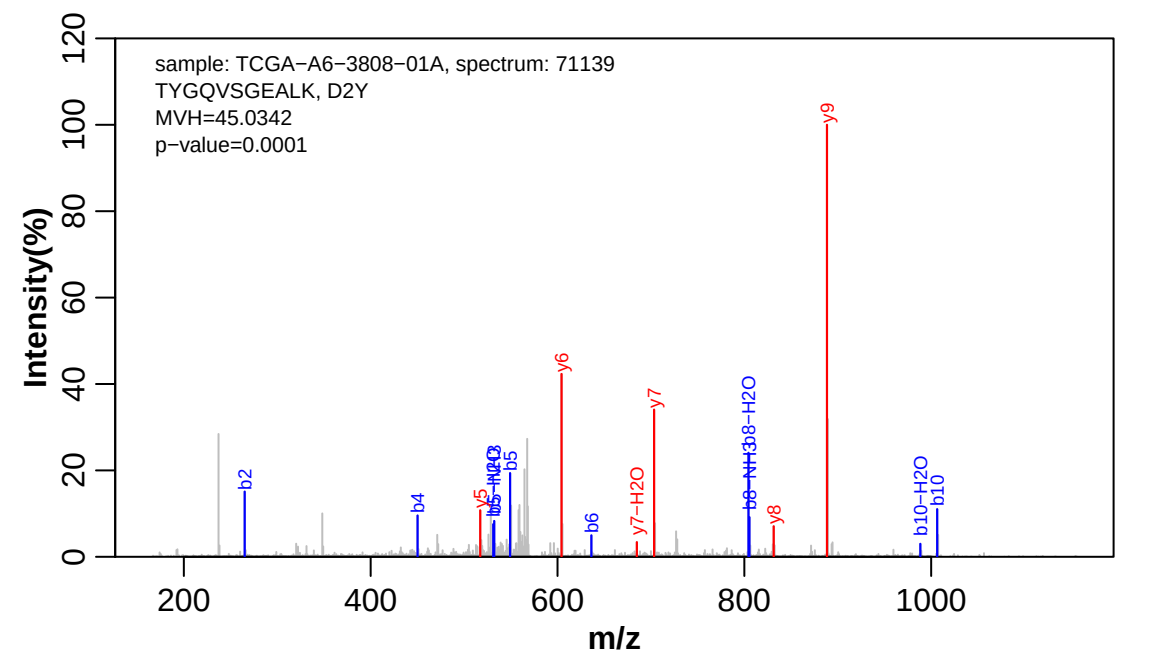

sample: TCGA−A6−3808−01A, spectrum: 140180
NDYATMLPDSTELNQDTLNR, D14N
MVH=51.2363
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12++
b7−NH3
b7
y2
y3
y7++
b4
y4
b5
y5
b11++−H2O
b12++−H2O
b12++
b13++−H2O
y13−H2O
b14++−H2O
b14++−NH3
y7−NH3
y7
y15++−NH3
y16++−H2O
y16++
b18−NH3
b18−H2O
b19++
y9
b12
b13

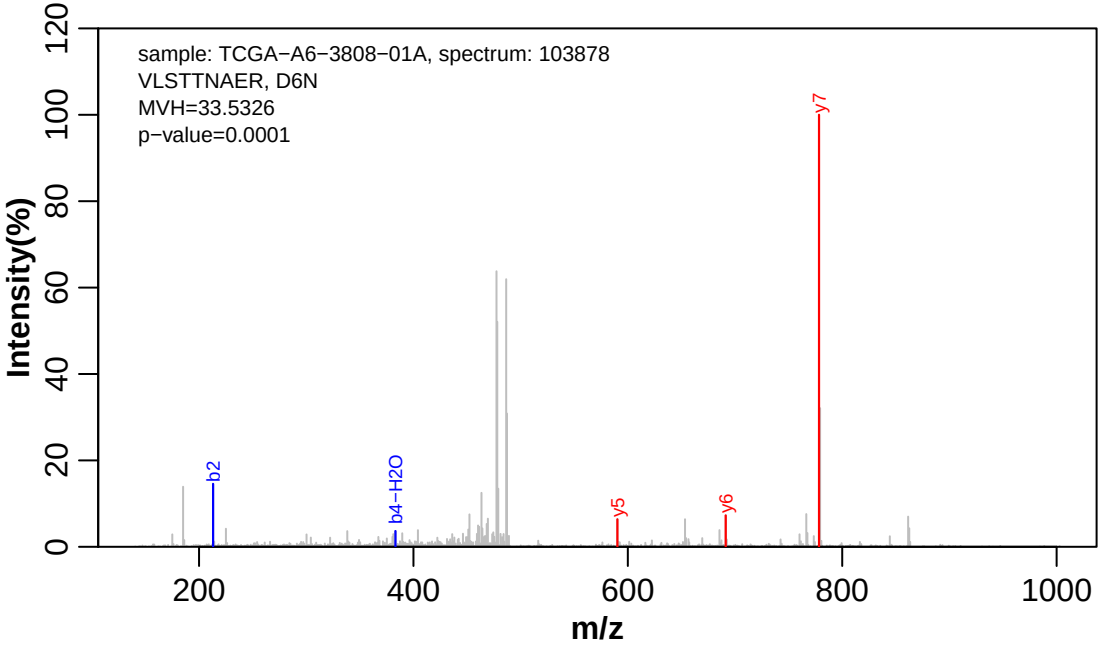

sample: TCGA−A6−3808−01A, spectrum: 84156
NTNSVPETAPAALPETR, K17R
MVH=30.5266
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
y10
b12
b13

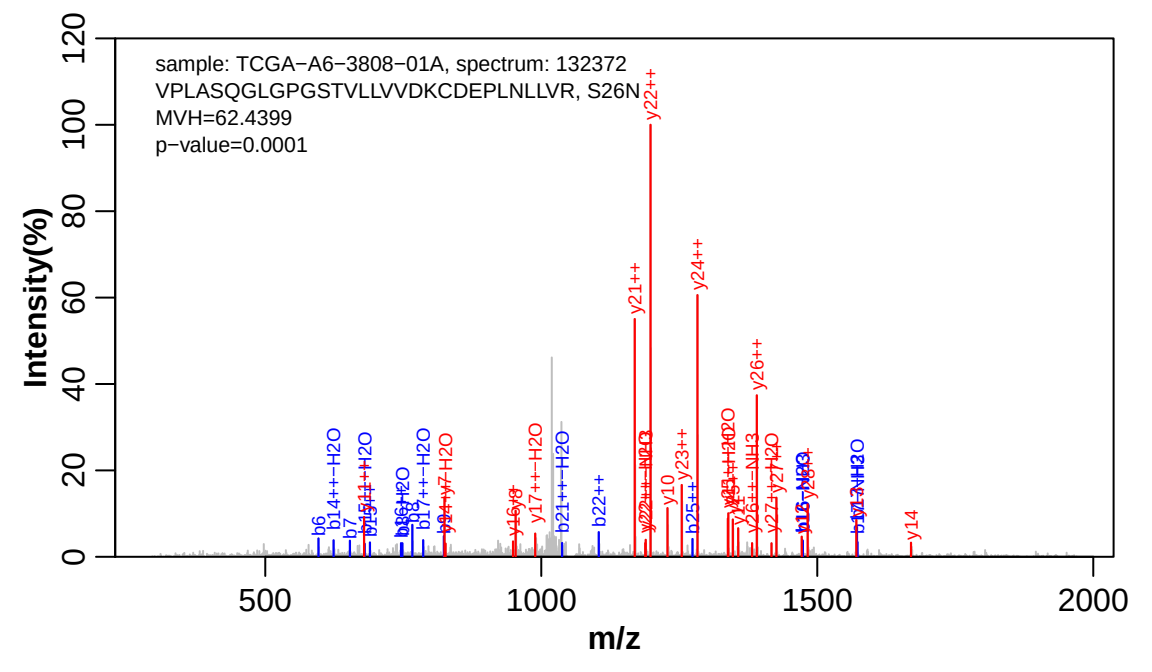

sample: TCGA−A6−3808−01A, spectrum: 31238
SALSGHLETLLLGLLK, V10L
MVH=45.1387
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
b12++
b11++
b9++−H2O
y4
y5
b15++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

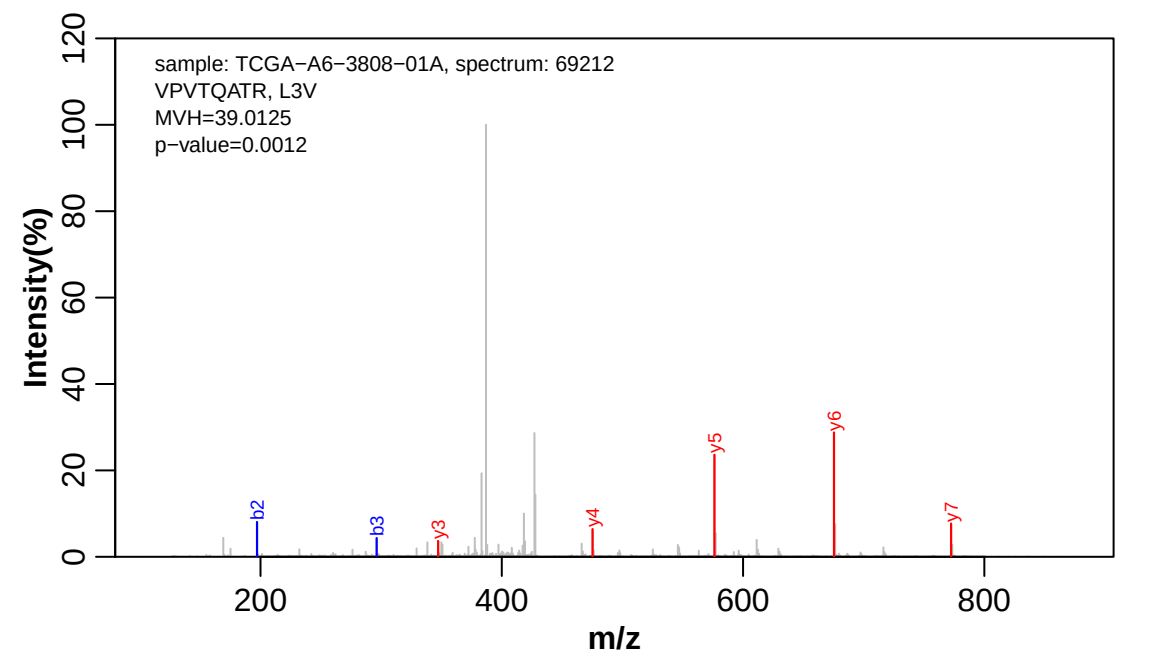

sample: TCGA−A6−3808−01A, spectrum: 164886
SAVGELSEDSSNVVHLLK, Q15H
MVH=62.4835
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5−H2O
y4
y4−H2O
b5
b6
b6−H2O
b7
y5
y5−NH3
y6−H2O
y6
b8
b8−H2O
b8−NH3
y7−NH3
b9−H2O
b9
y8−NH3
y8
y9
b10−H2O
b10−NH3
y10
y10−NH3
y10−H2O
b11
b12−NH3
b12
y11
y11−NH3
y11−H2O
b13
b13−H2O
y12
y12−NH3
y12−H2O
b14
b14−NH3
b14−H2O
y13
y13−NH3
y13−H2O
b15
b15−NH3
y15
b16
b17
b17−H2O

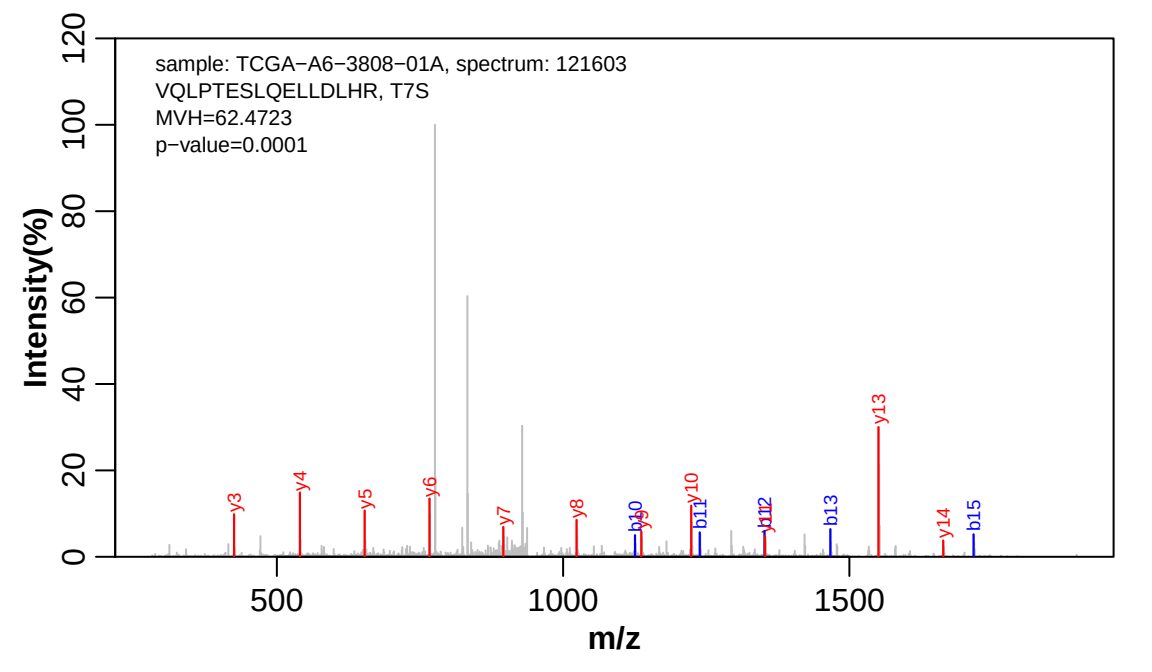

sample: TCGA−A6−3808−01A, spectrum: 126800
SVEEYANCHLAR, P1S
MVH=62.2009
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4−H2O
b4
y4
b5
b5−NH3
b5−H2O
b6
b6−NH3
b6−H2O
y6
b7−NH3
b7
y7
y7−NH3
b8−NH3
b8
y8
b9
y9
b10
y10−NH3
y10
b11

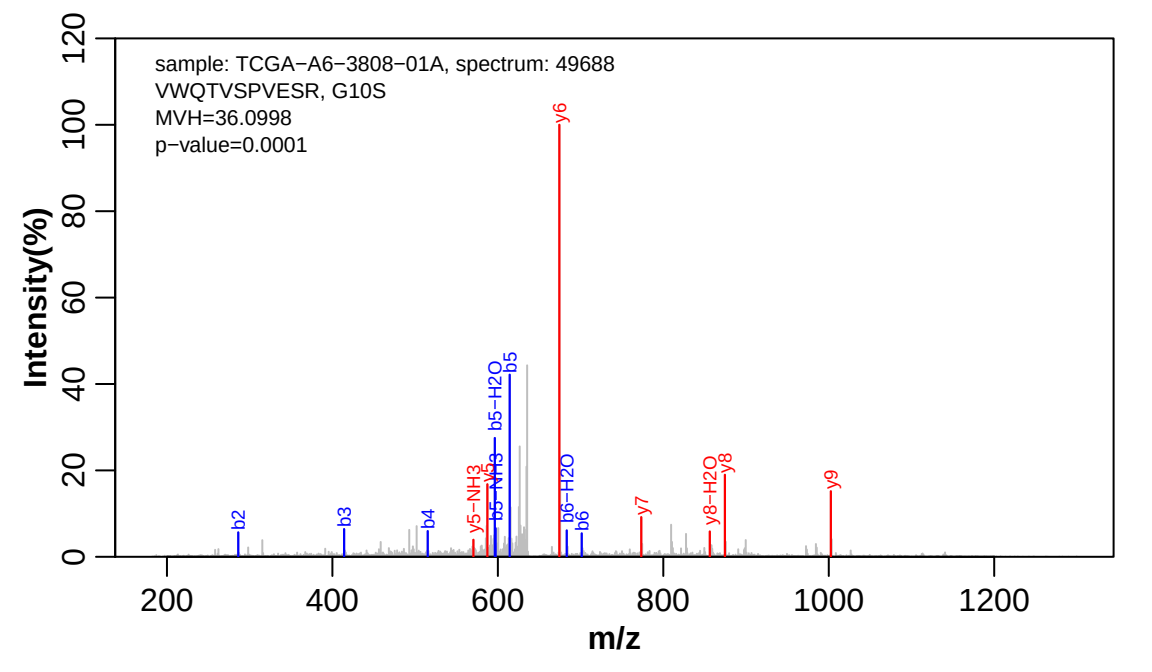

sample: TCGA−A6−3808−01A, spectrum: 71139
TYGQVSGEALK, D2Y
MVH=45.0342
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
y5
b5
y6
b6
y7
y7−H2O
b8−NH3
b8−H2O
y8
y9
b10−H2O
b10

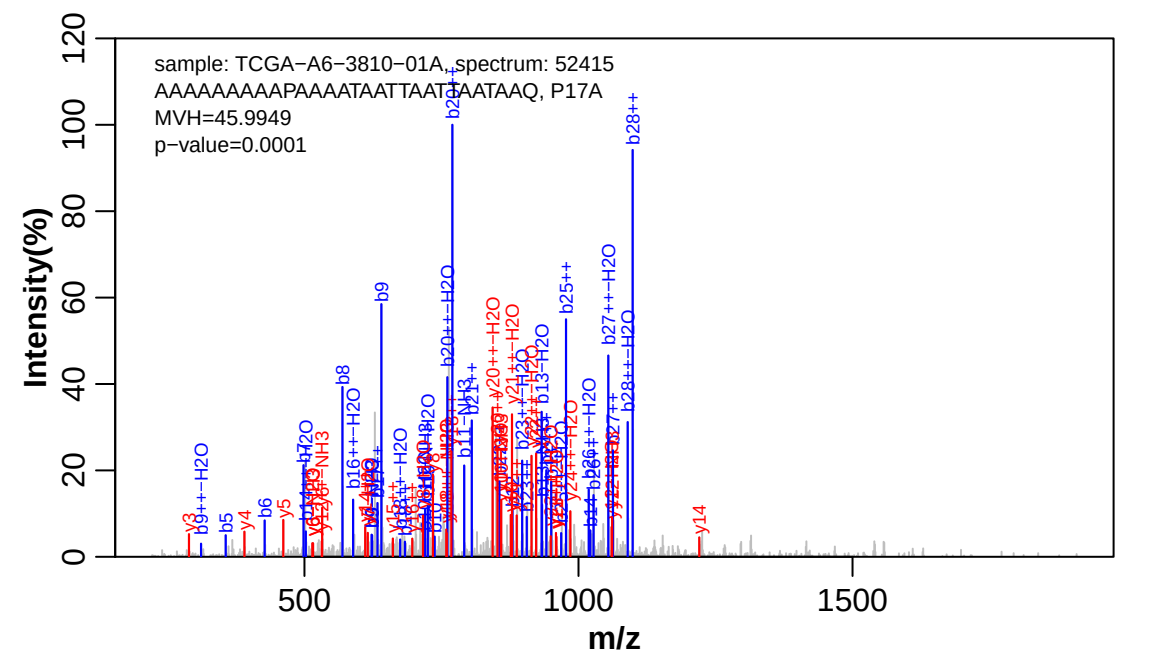

sample: TCGA−A6−3808−01A, spectrum: 103878
VLSTTNAER, D6N
MVH=33.5326
p−value=0.0001
b2
b4−H2O
y5
y6
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

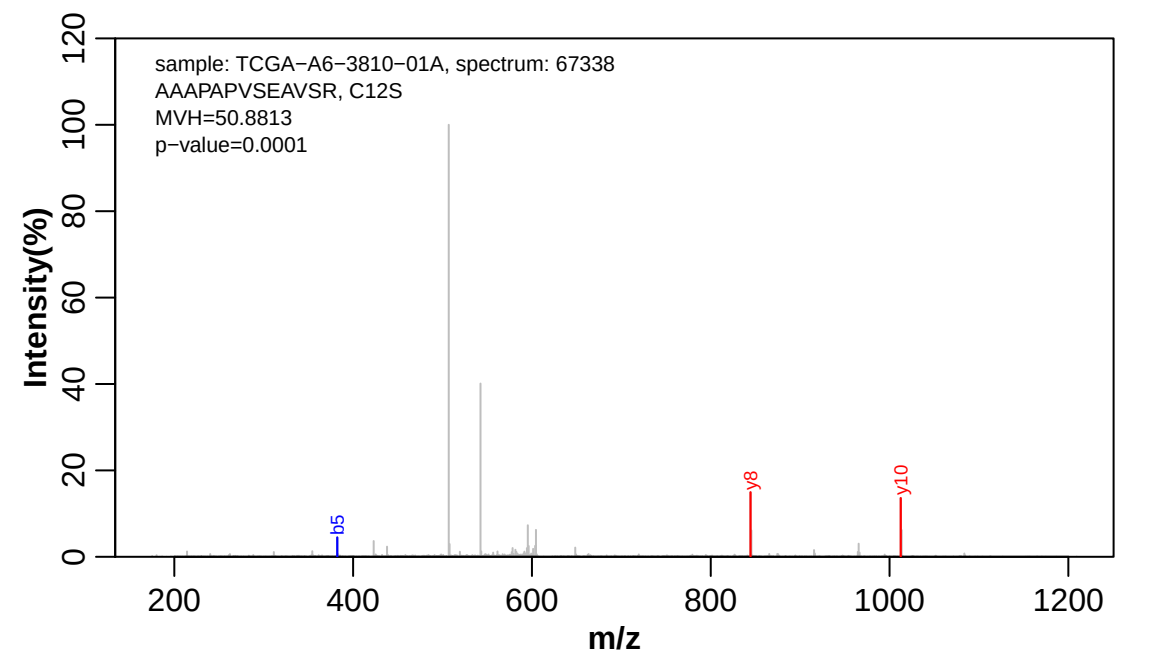

sample: TCGA−A6−3808−01A, spectrum: 132372
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=62.4399
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y26++
y10
y23++
y14
b6
b14++−H2O
b7
b11++−H2O
b17++−H2O
b24++y7−H2O
y16y8
y17++−H2O
b21++−H2O
b22++

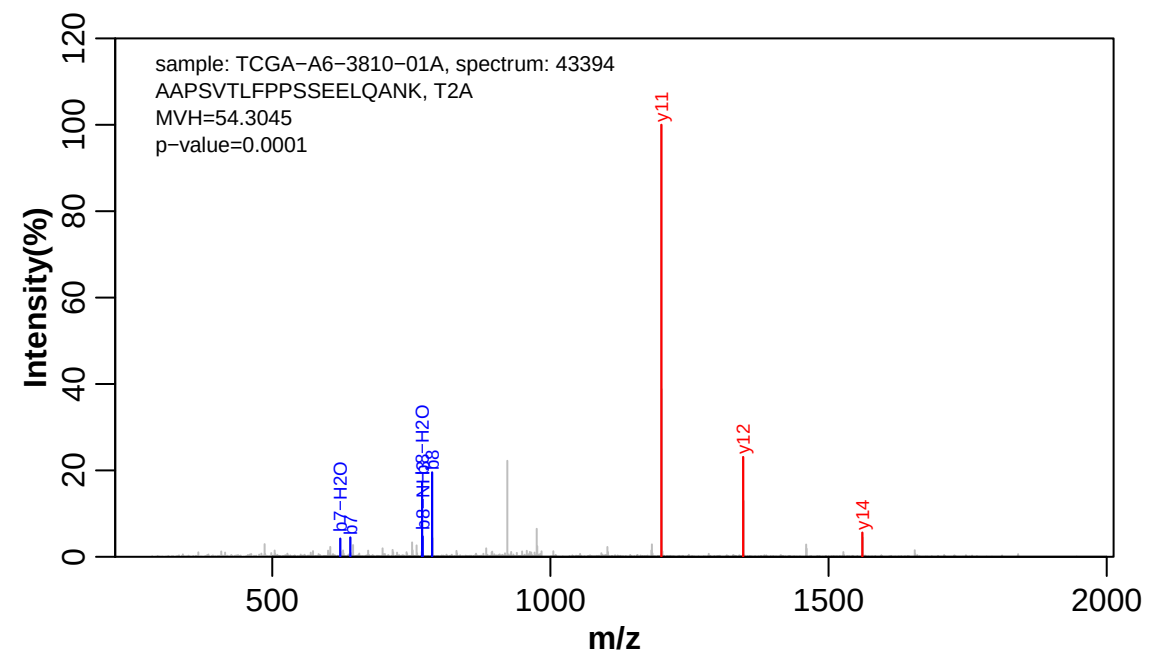

sample: TCGA−A6−3808−01A, spectrum: 69212
VPVTQATR, L3V
MVH=39.0125
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

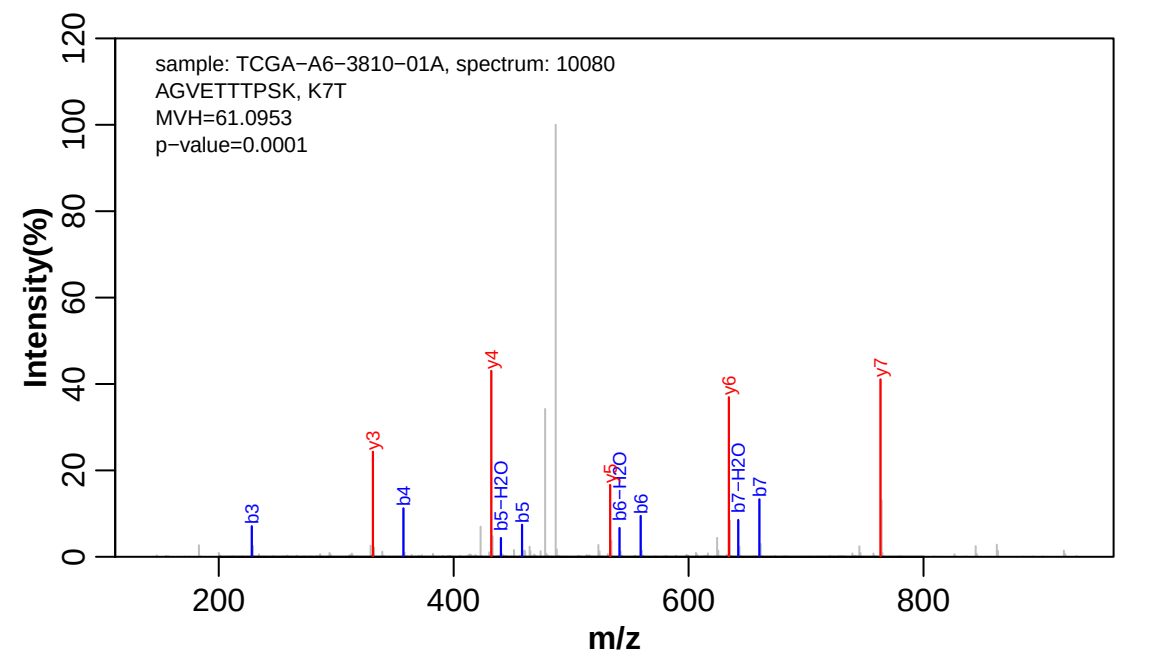

sample: TCGA−A6−3808−01A, spectrum: 121603
VQLPTESLQELLDLHR, T7S
MVH=62.4723
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y7
y8
b10
y9
y10
b11
y11
y12
b13
y13
y14
b15

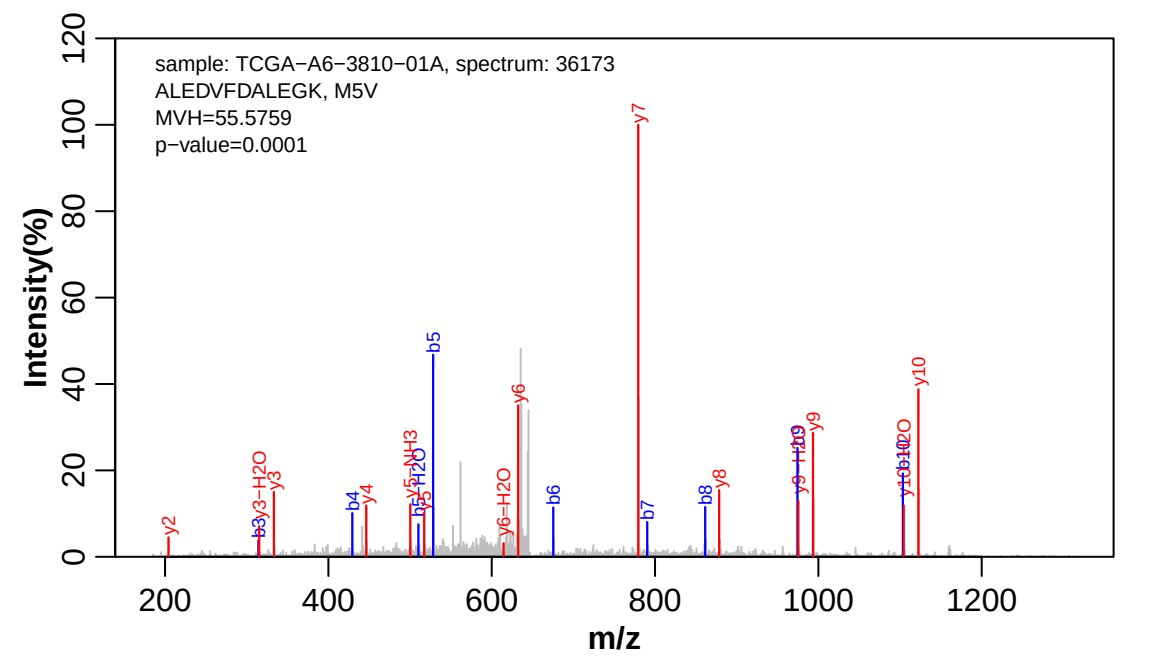

sample: TCGA−A6−3808−01A, spectrum: 49688
VWQTVSPVESR, G10S
MVH=36.0998
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
y5−NH3
b5
b5−NH3
b5−H2O
y6
b6−H2O
b6
y7
y8−H2O
y8
y9

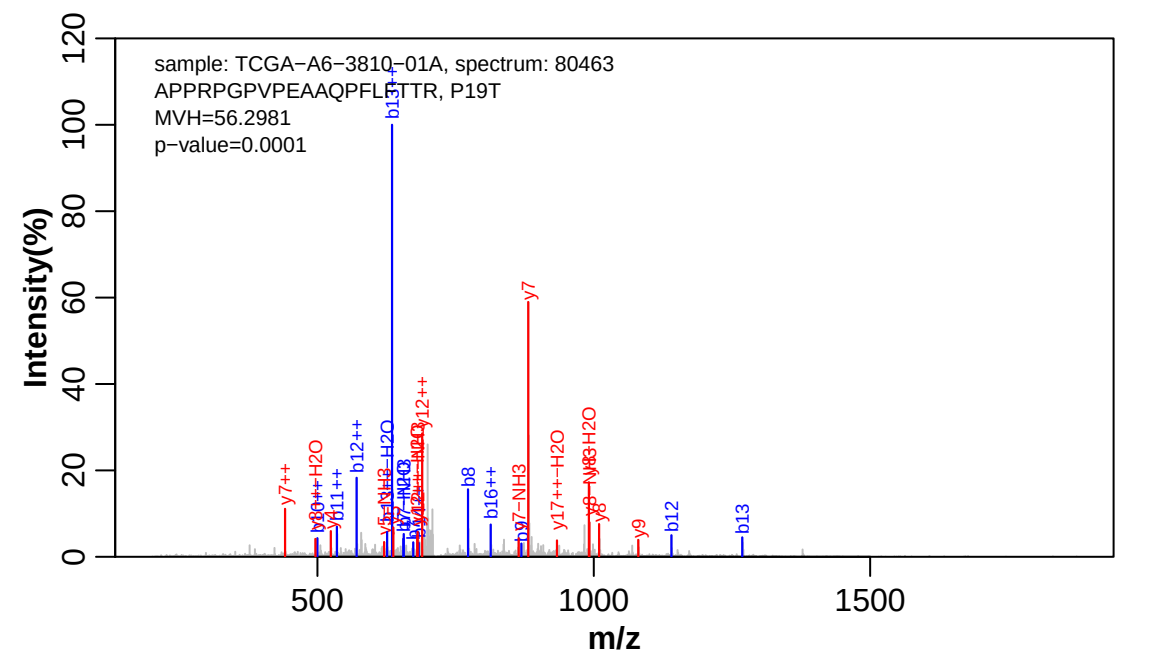

sample: TCGA−A6−3810−01A, spectrum: 52415
AAAAAAAAAPAAAATAATTAATAAATAAQ, P17A
MVH=45.9949
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b28++−H2O
b27++−H2O
b25++
b20++−H2O
b9
b8
y14
y5
y4
b6
b5
y3

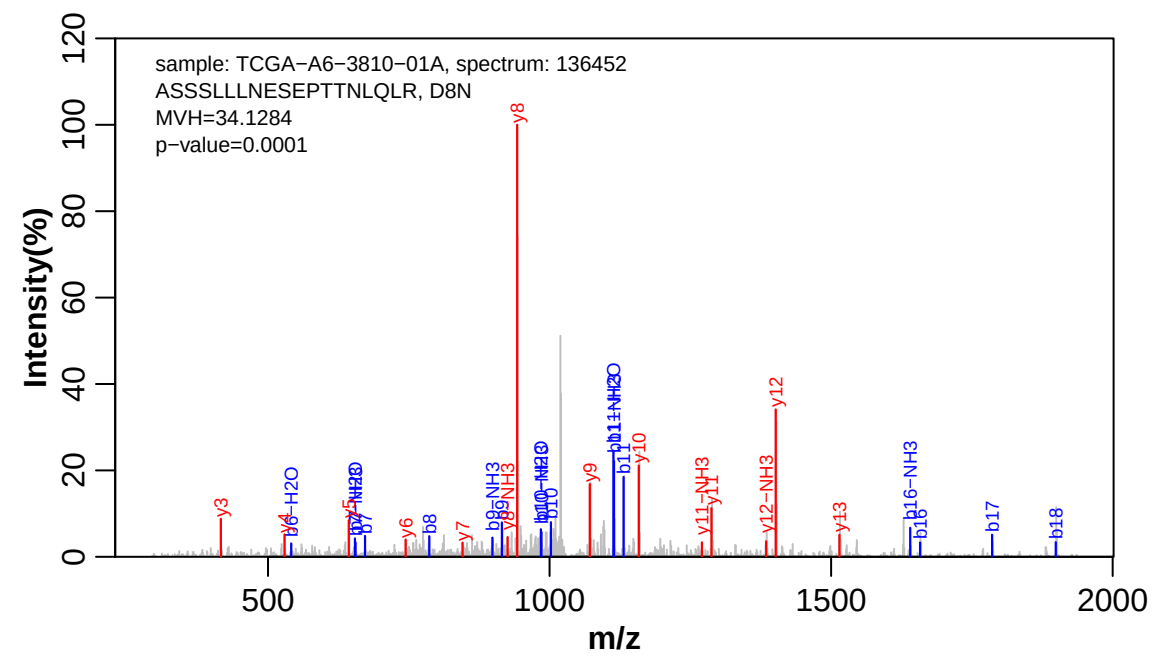

sample: TCGA−A6−3810−01A, spectrum: 67338
AAAPAPVSEAVSR, C12S
MVH=50.8813
p−value=0.0001
b5
y8
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

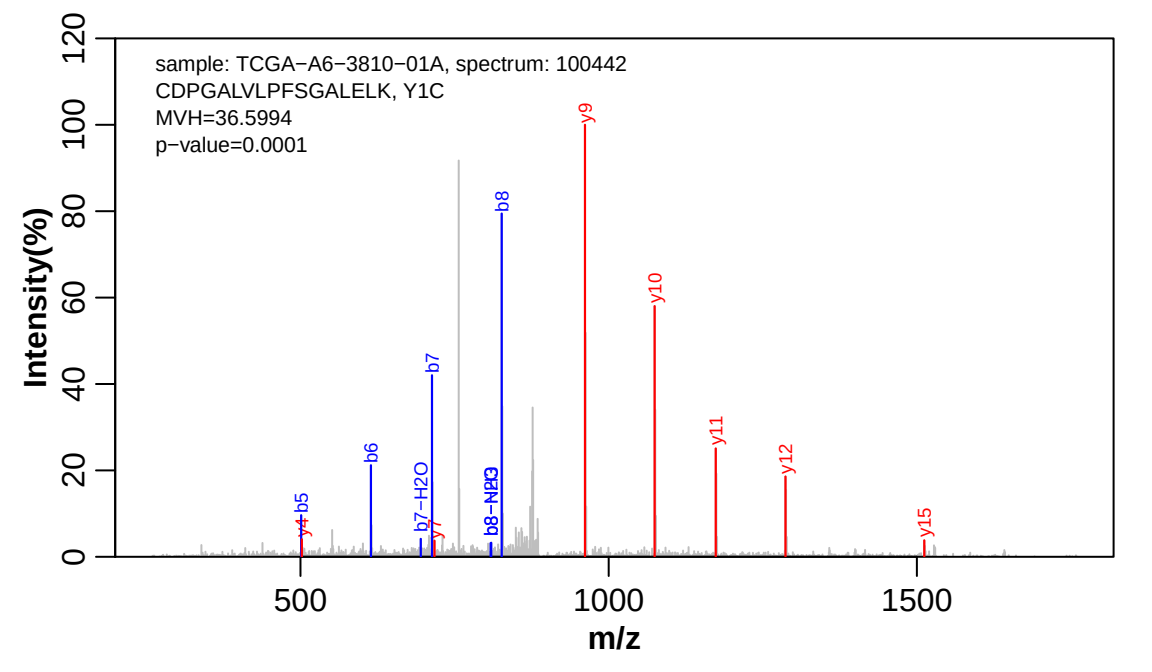

sample: TCGA−A6−3810−01A, spectrum: 43394
AAPSVTLFPPSSEELQANK, T2A
MVH=54.3045
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

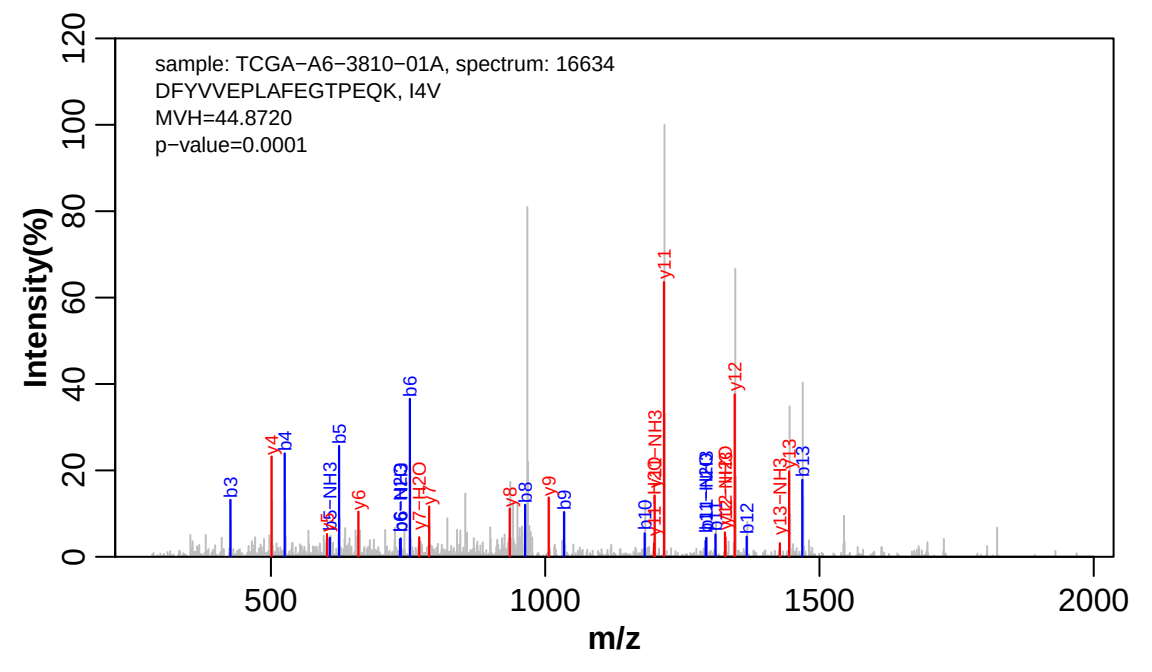

sample: TCGA−A6−3810−01A, spectrum: 10080
AGVETTTPSK, K7T
MVH=61.0953
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

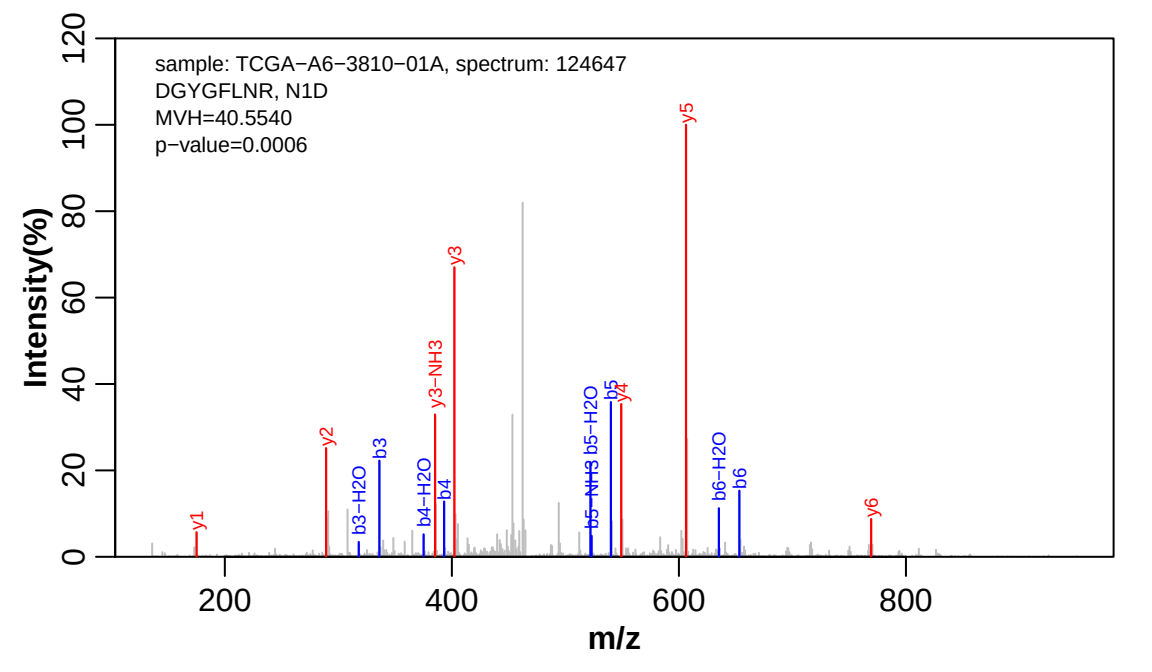

sample: TCGA−A6−3810−01A, spectrum: 36173
ALEDVFDALEGK, M5V
MVH=55.5759
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5−NH3
b5−H2O
b5
y6
y6−H2O
b6
y7
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

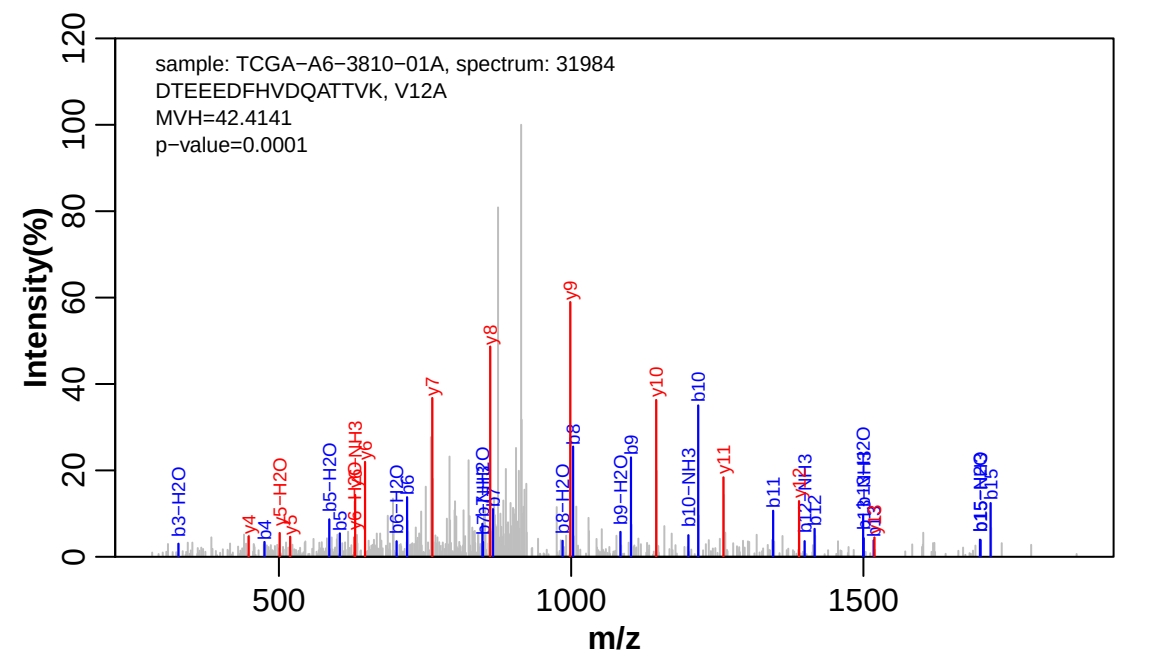

sample: TCGA−A6−3810−01A, spectrum: 80463
APPRPGPVPEAAQPFLFTTR, P19T
MVH=56.2981
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b13++
y7
y7++
b8
b16++
b12++
b12
b13
y9

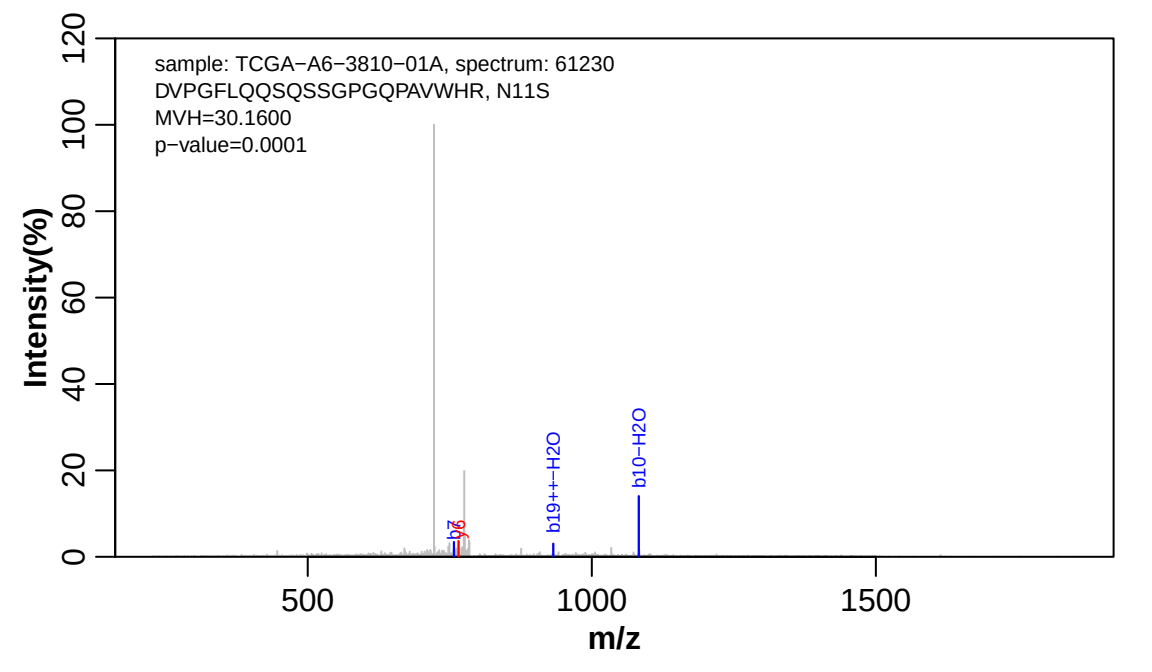

sample: TCGA−A6−3810−01A, spectrum: 136452
ASSSLLLNESEPTTNLQLR, D8N
MVH=34.1284
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4−H2O
y12
y10
y9
y12−NH3
y13
b16−NH3
b17
b18
y6
b8
y7
y11
y11−NH3

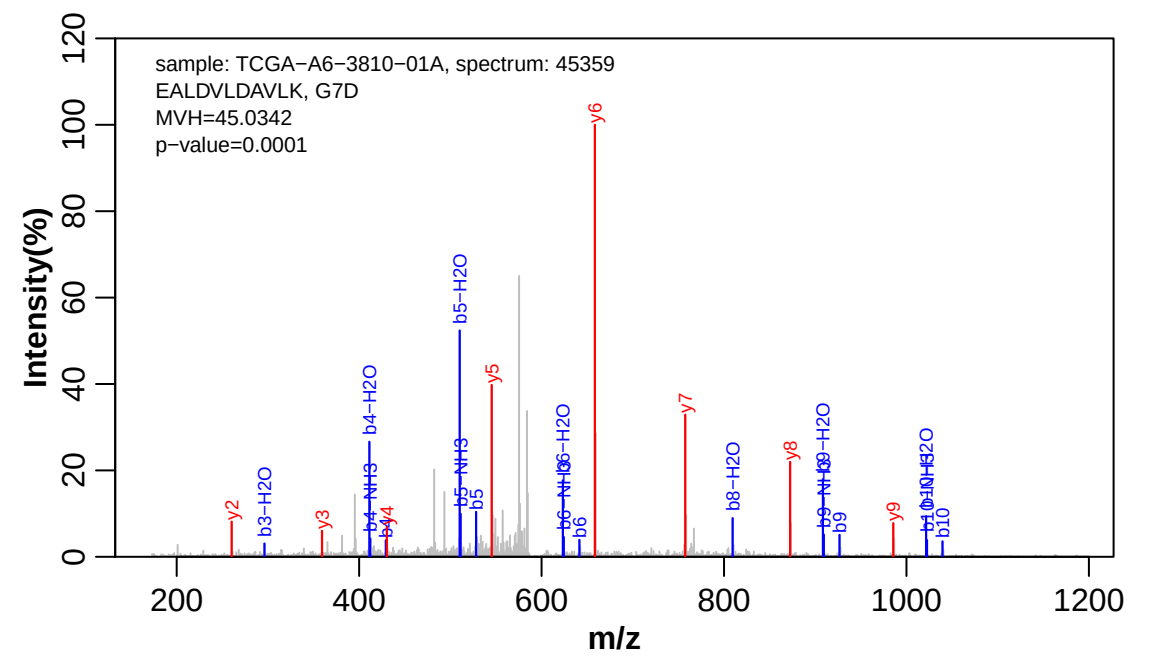

sample: TCGA−A6−3810−01A, spectrum: 100442
CDPGALVLPFSGALELK, Y1C
MVH=36.5994
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y9
b8
y10
b7
y11
b6
y12
b7−H2O
y7
b8−NH3
y4
b5
y15

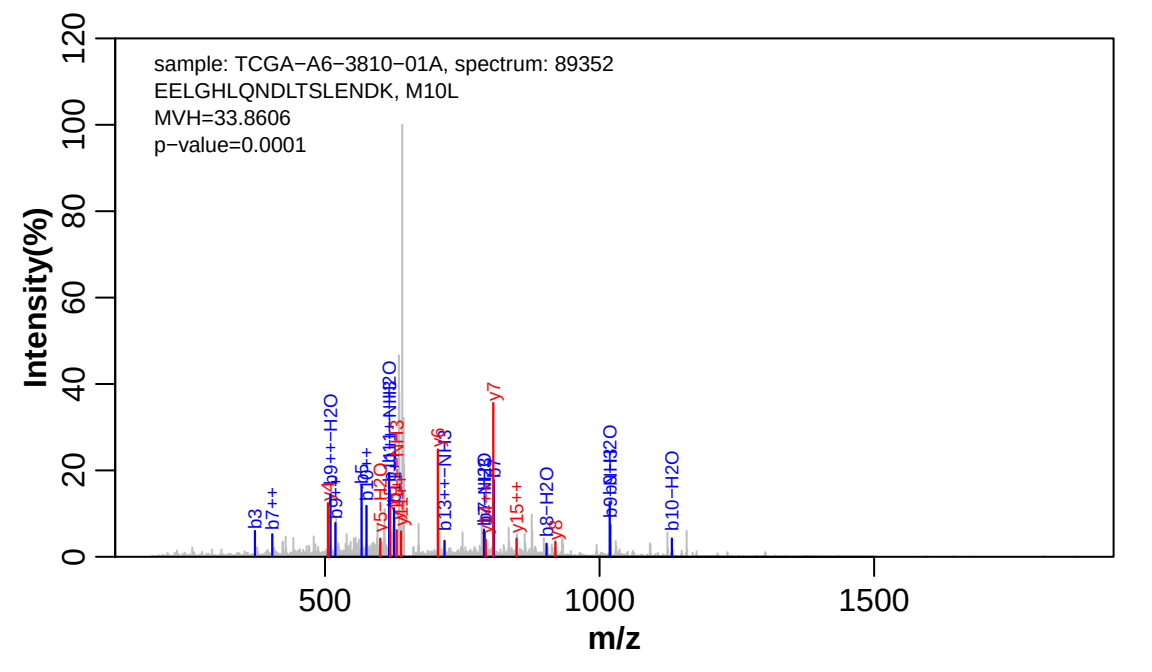

sample: TCGA−A6−3810−01A, spectrum: 16634
DFYVVEPLAFEGTPEQK, I4V
MVH=44.8720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
b5
y5−NH3
y5
y6
b6
b6−NH3
b6−H2O
y7
y7−H2O
y8
b8
y9
b9
b10
y11
y11−H2O
y11−NH3
b11−NH3
b11−H2O
y12−H2O
y12−NH3
y12
b12
y13−NH3
y13
b13

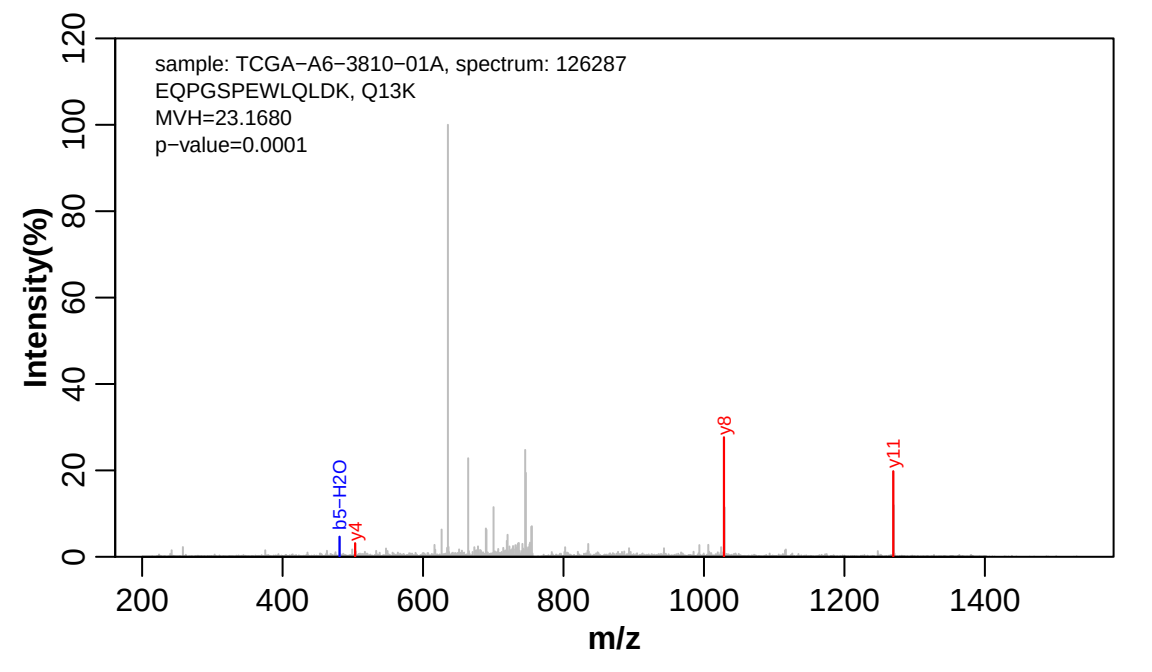

sample: TCGA−A6−3810−01A, spectrum: 124647
DGYGFLNR, N1D
MVH=40.5540
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3
b3−H2O
y3
y3−NH3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

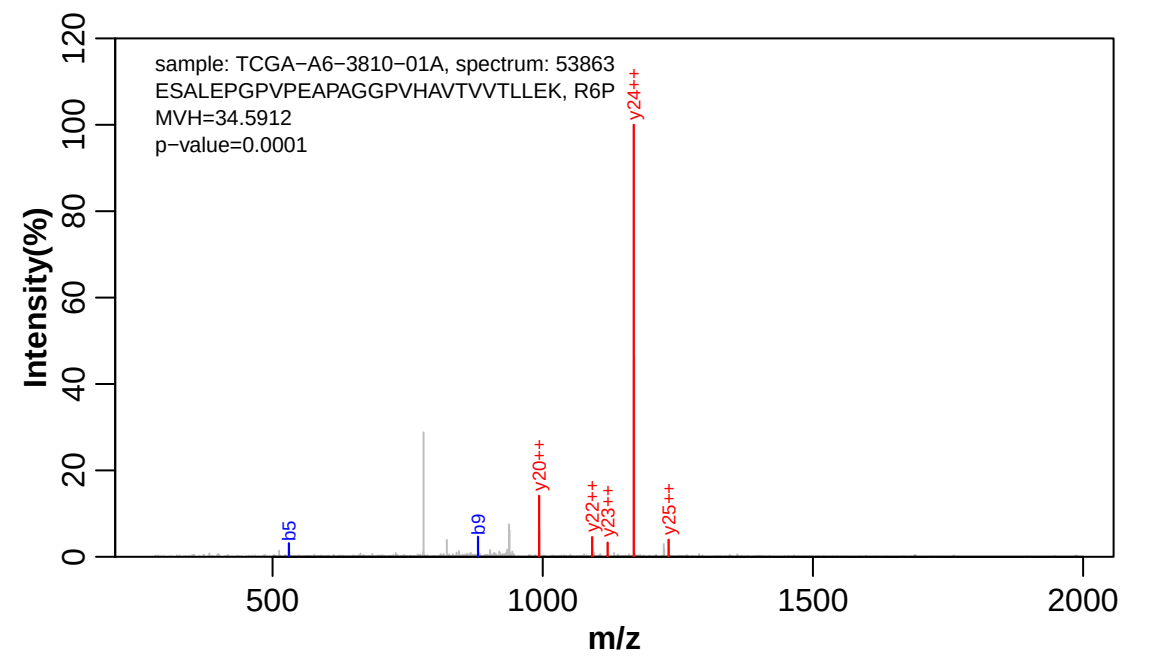

sample: TCGA−A6−3810−01A, spectrum: 31984
DTEEEDFHVDQATTVK, V12A
MVH=42.4141
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y4
b4
y5−H2O
y5
b5−H2O
b5
y6−H2O
y6−NH3
y6
b6−H2O
b6
y7
b7−H2O
b7
y8
b8−H2O
b8
y9
b9−H2O
b9
y10
b10−NH3
b10
y11
b11
y12−NH3
b12−NH3
b12
b13−H2O
y13
b15−NH3
b15

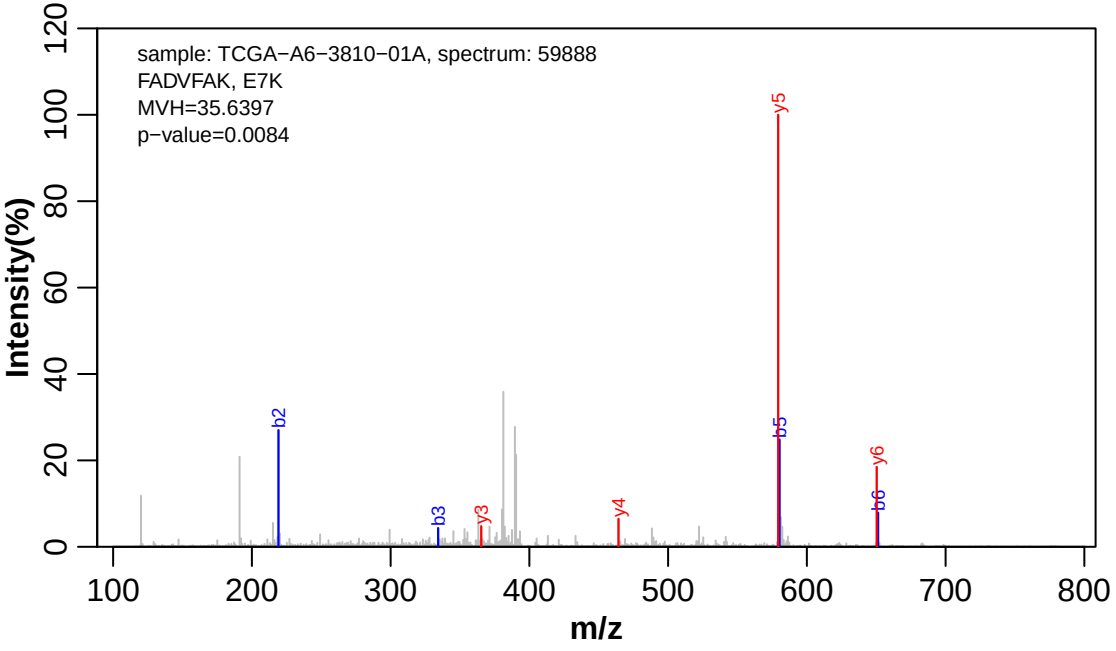

sample: TCGA−A6−3810−01A, spectrum: 61230
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=30.1600
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
y6
b19++−H2O
b10−H2O

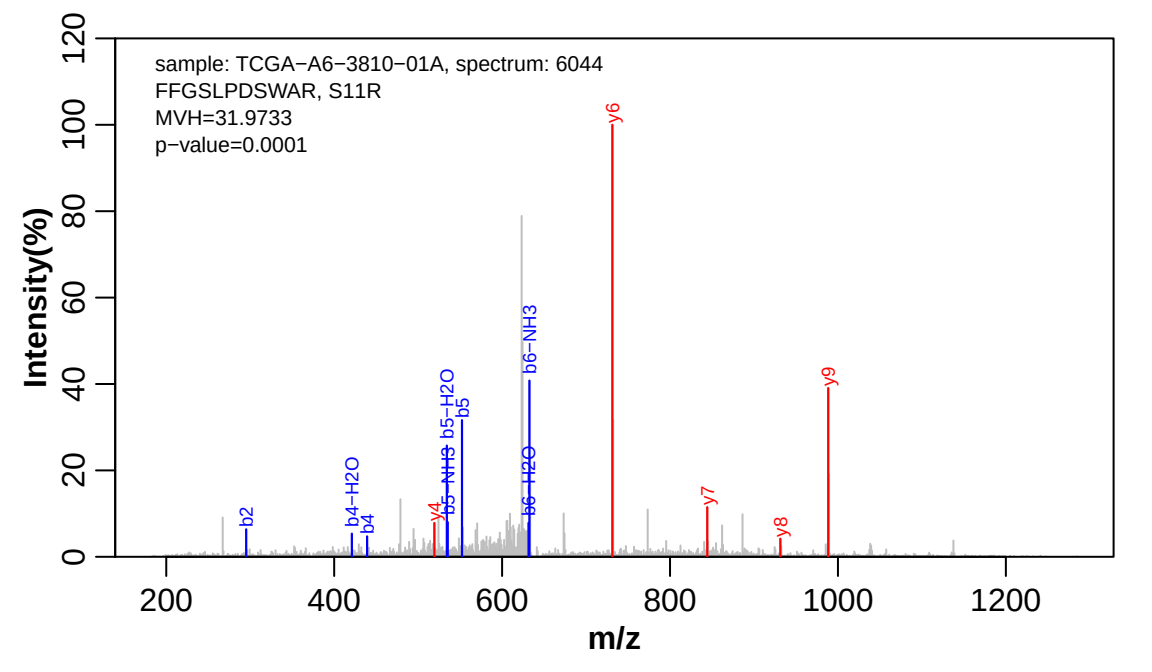

sample: TCGA−A6−3810−01A, spectrum: 45359
EALDVLDAVLK, G7D
MVH=45.0342
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−NH3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

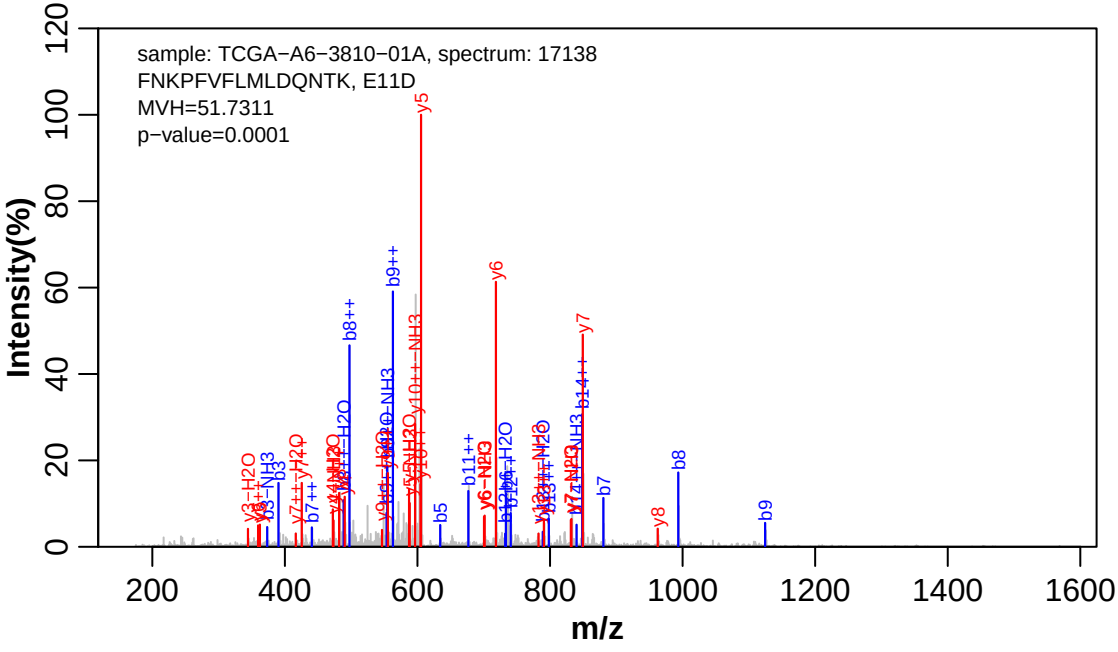

sample: TCGA−A6−3810−01A, spectrum: 89352
EELGHLQNDLTSLENDK, M10L
MVH=33.8606
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b7++
b9++−H2O
b13++−NH3
y7
y15++
b8−H2O
b10−H2O

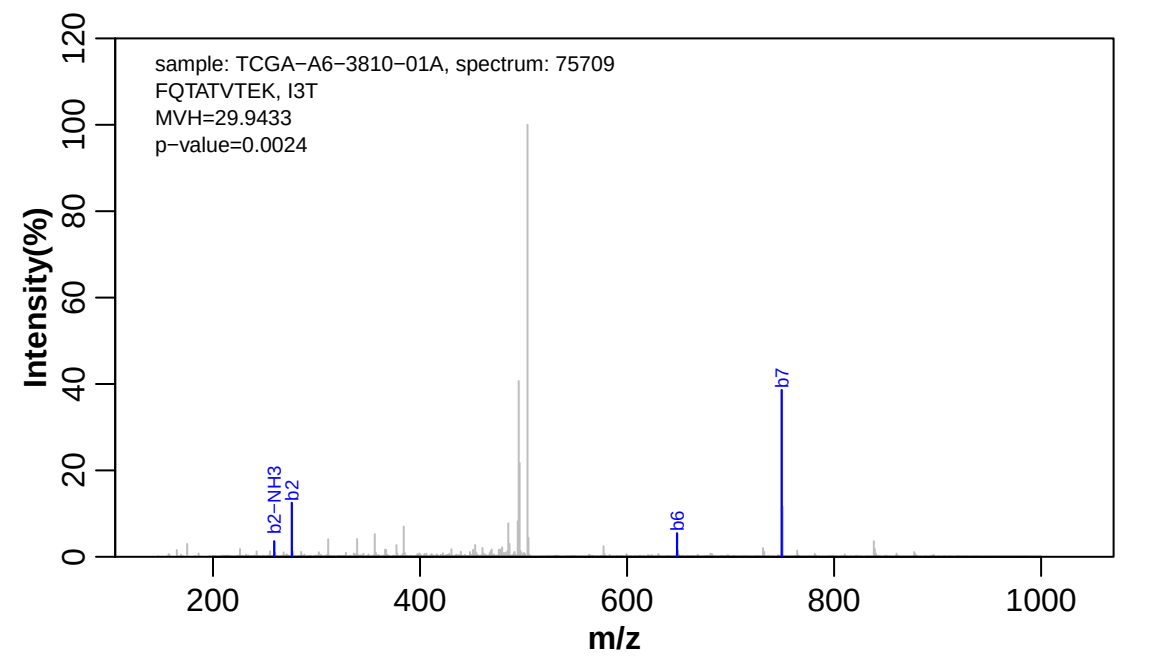

sample: TCGA−A6−3810−01A, spectrum: 126287
EQPGSPEWLQLDK, Q13K
MVH=23.1680
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

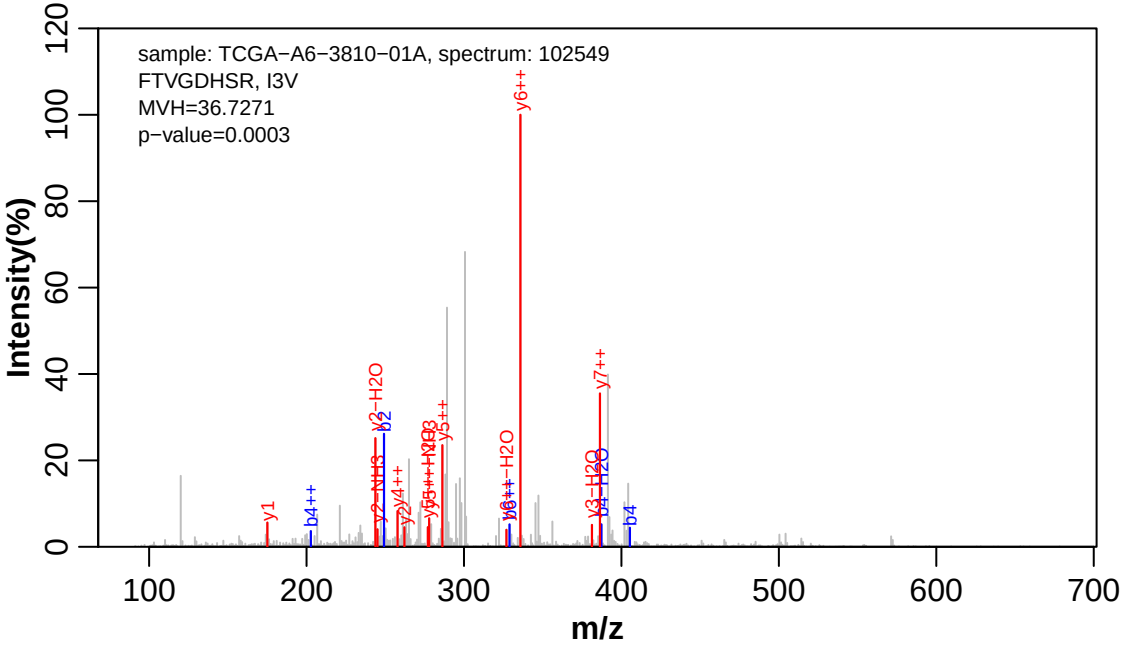

sample: TCGA−A6−3810−01A, spectrum: 53863
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=34.5912
p−value=0.0001
y24++
y20++
y22++
y23++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

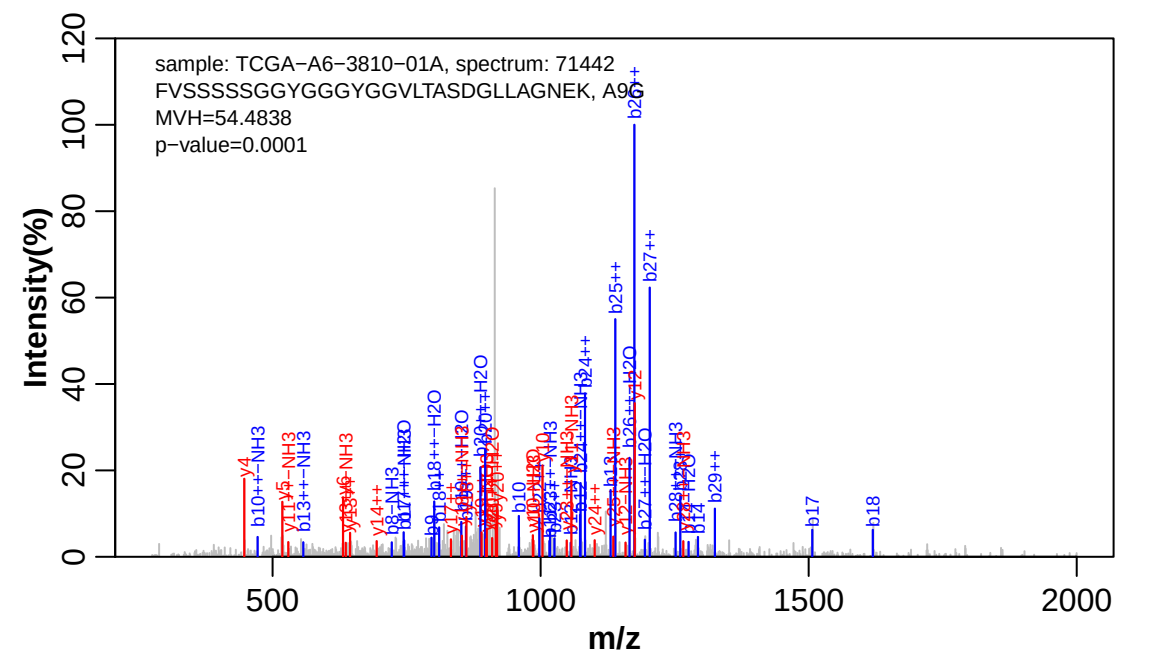

sample: TCGA−A6−3810−01A, spectrum: 59888
FADVFAK, E7K
MVH=35.6397
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

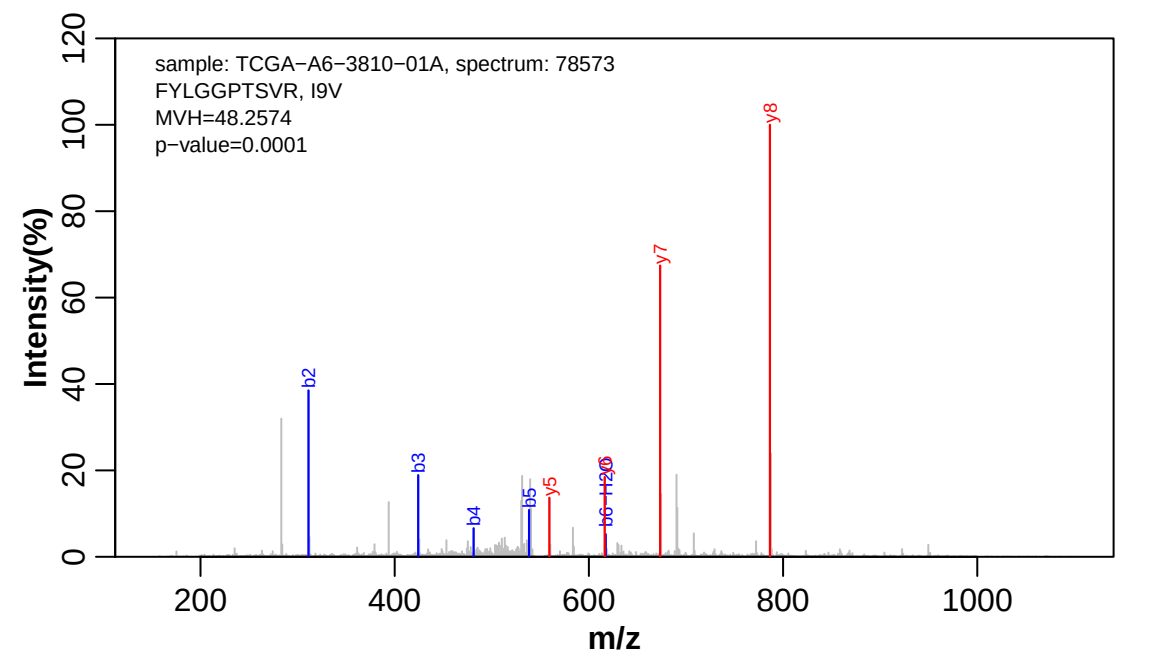

sample: TCGA−A6−3810−01A, spectrum: 6044
FFGSLPDSWAR, S11R
MVH=31.9733
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b6−NH3
y9
b5−H2O
b5
b5−NH3
y4
b4−H2O
b4
b2
y7
y8
b6−H2O

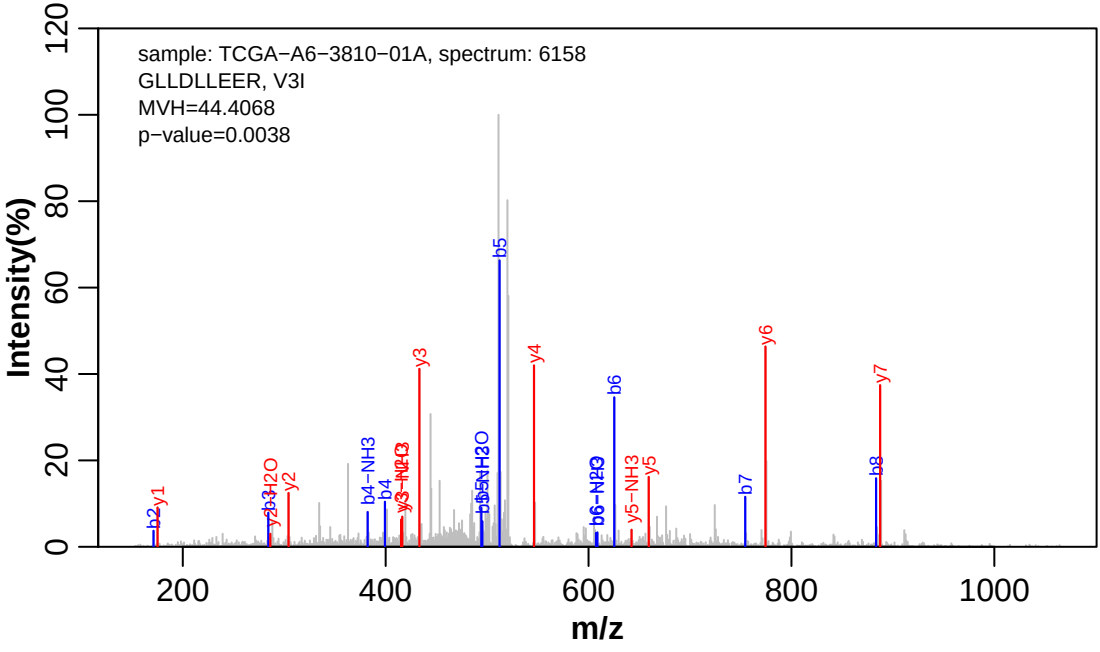

sample: TCGA−A6−3810−01A, spectrum: 17138
FNKPFVFLMLDQNTK, E11D
MVH=51.7311
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b5
b7
b8
b9
b8++
b9++
b11++
b14++
y10++−NH3
y6−NH3
y7−NH3
y6−H2O
y7−H2O
b7−H2O
b8−H2O
b12−H2O
b7−NH3
b8−NH3
y3−H2O
y3−NH3
b3
b7++
y7++

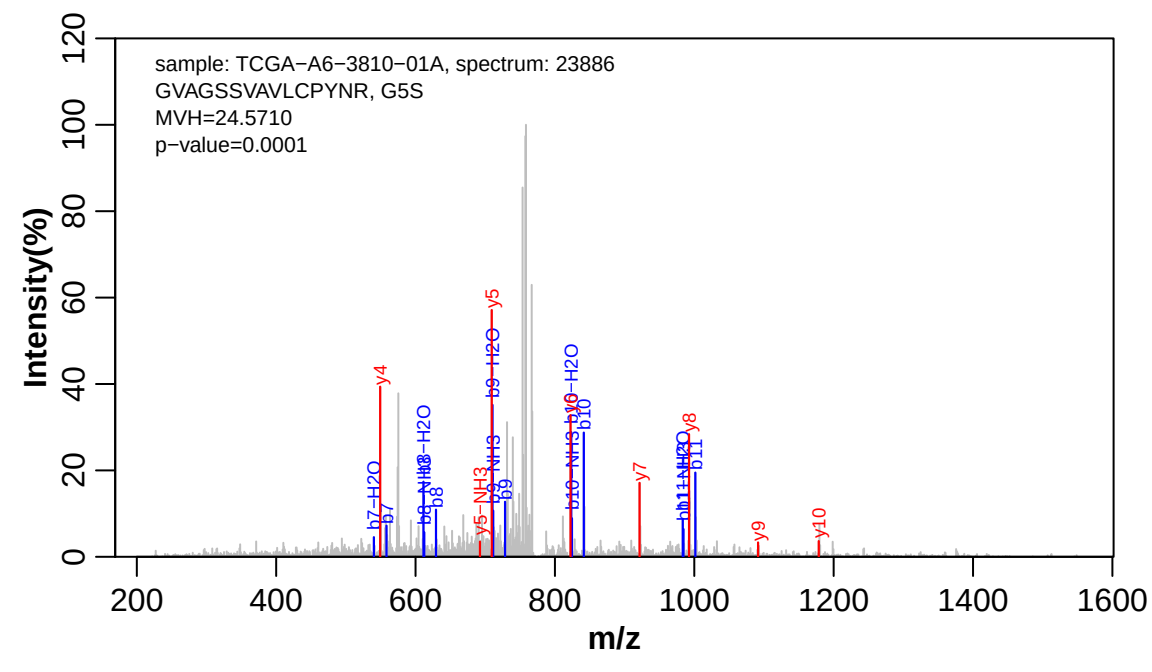

sample: TCGA−A6−3810−01A, spectrum: 75709
FQTATVTEK, I3T
MVH=29.9433
p−value=0.0024
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b6
b7

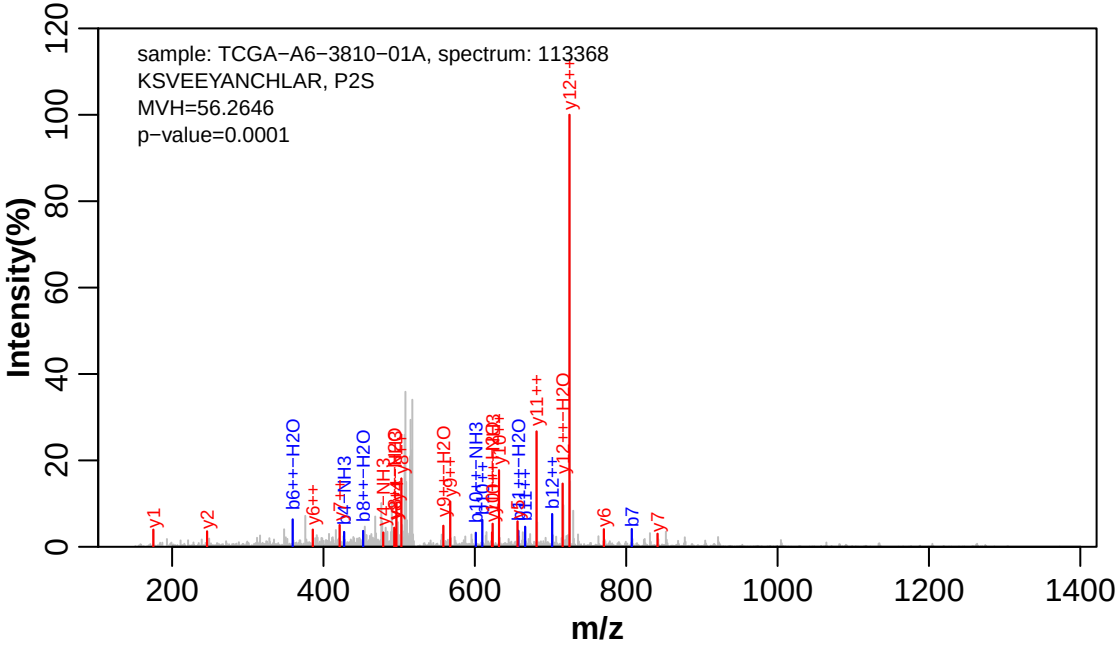

sample: TCGA−A6−3810−01A, spectrum: 102549
FTVGDHSR, I3V
MVH=36.7271
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y5++
y2−H2O
b2
y1
b4++
y2−NH3
y4++
y3−H2O
b4−H2O
b4
0
20
40
60
80
100
120
100
200
300
400
500
600
700

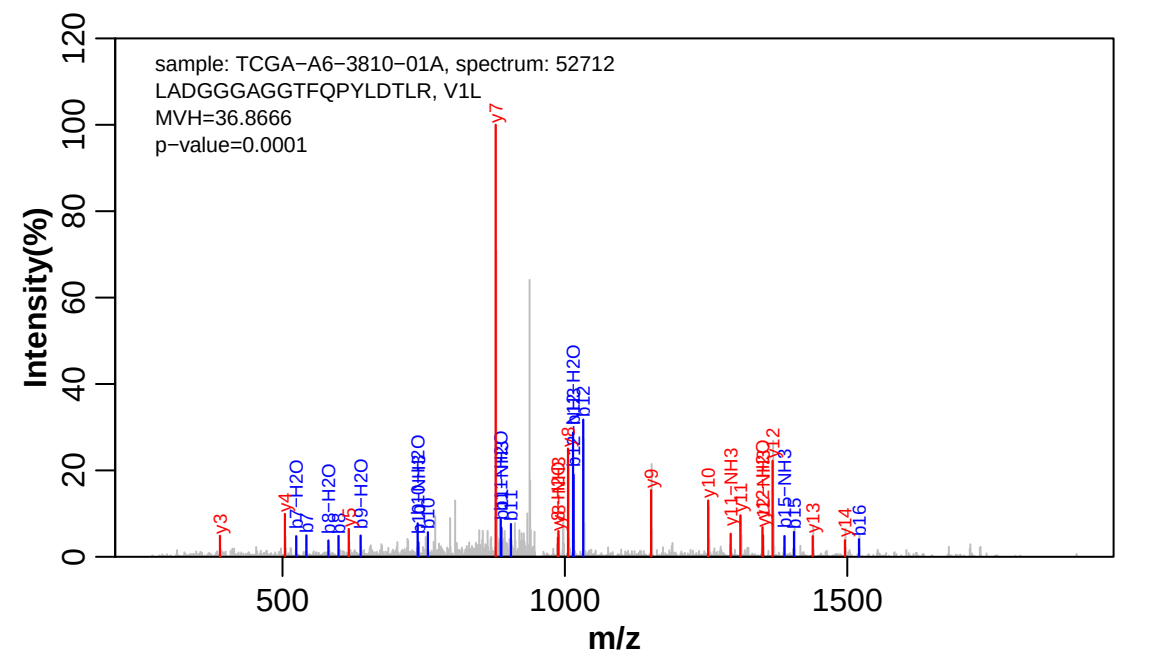

sample: TCGA−A6−3810−01A, spectrum: 71442
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=54.4838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b26++
b27++
b25++
b17
b18
b29++
y4
b10++−NH3
b13++−NH3
y14++
b17++−H2O
b18++−H2O
b10
y24++
b24++
y26++−H2O
b27++−H2O
b28++−NH3
b14
y2

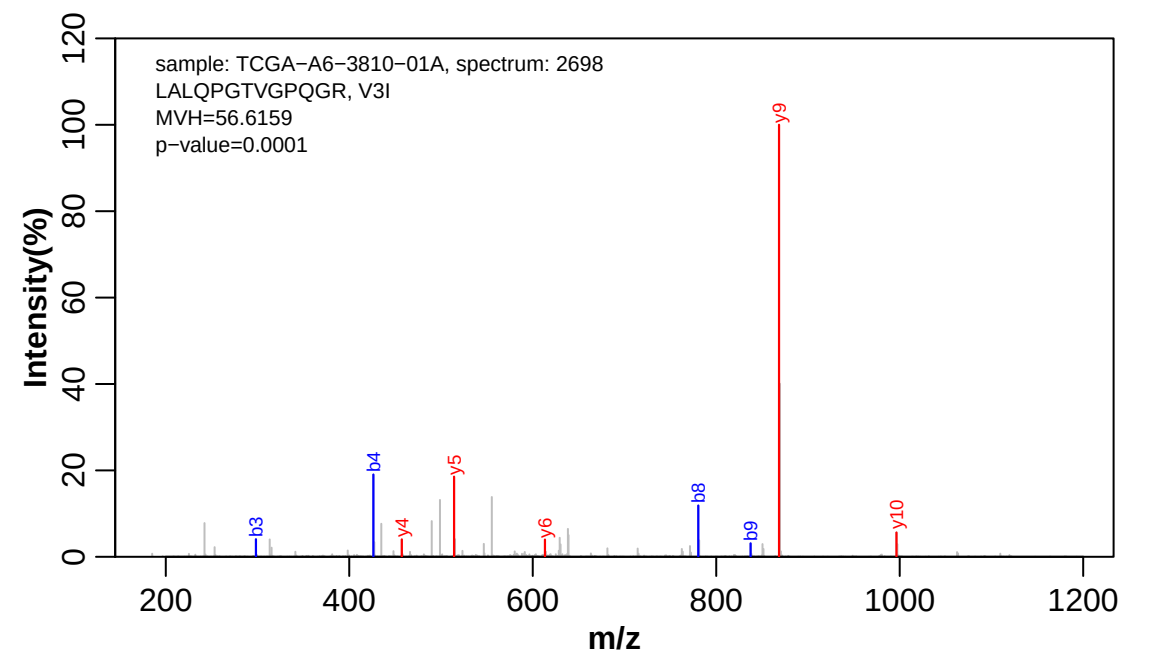

sample: TCGA−A6−3810−01A, spectrum: 78573
FYLGGPTSVR, I9V
MVH=48.2574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

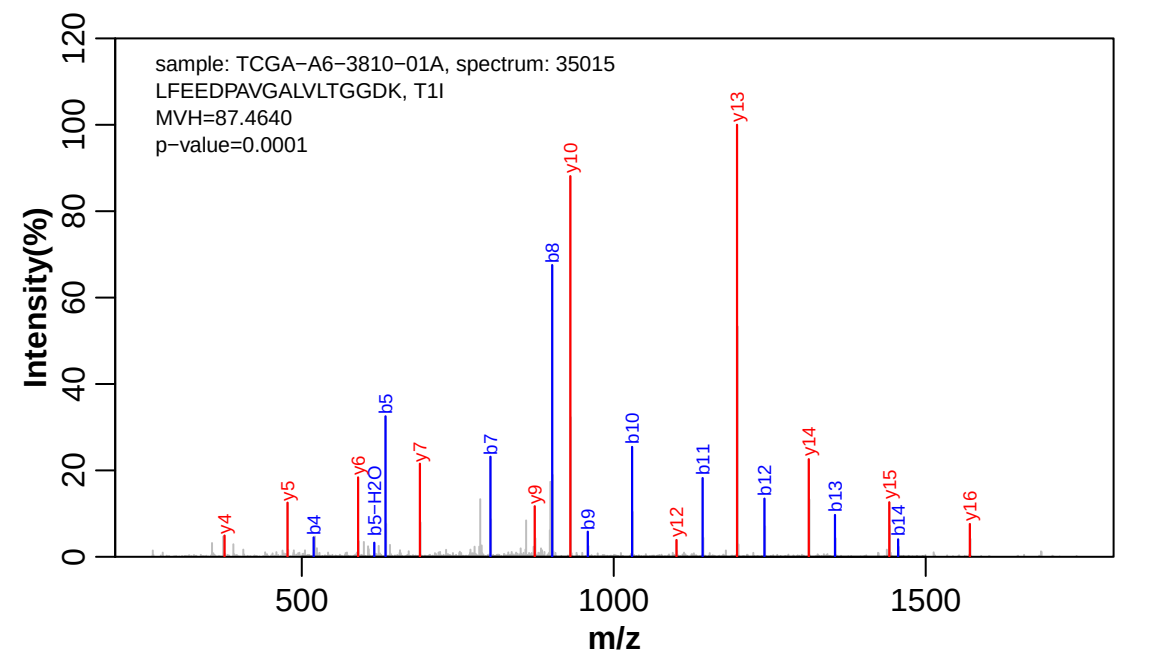

sample: TCGA−A6−3810−01A, spectrum: 6158
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2
b4−NH3
b4
b5
y3
y4
b6
y5−NH3
y5
y6
b7
y7
b8

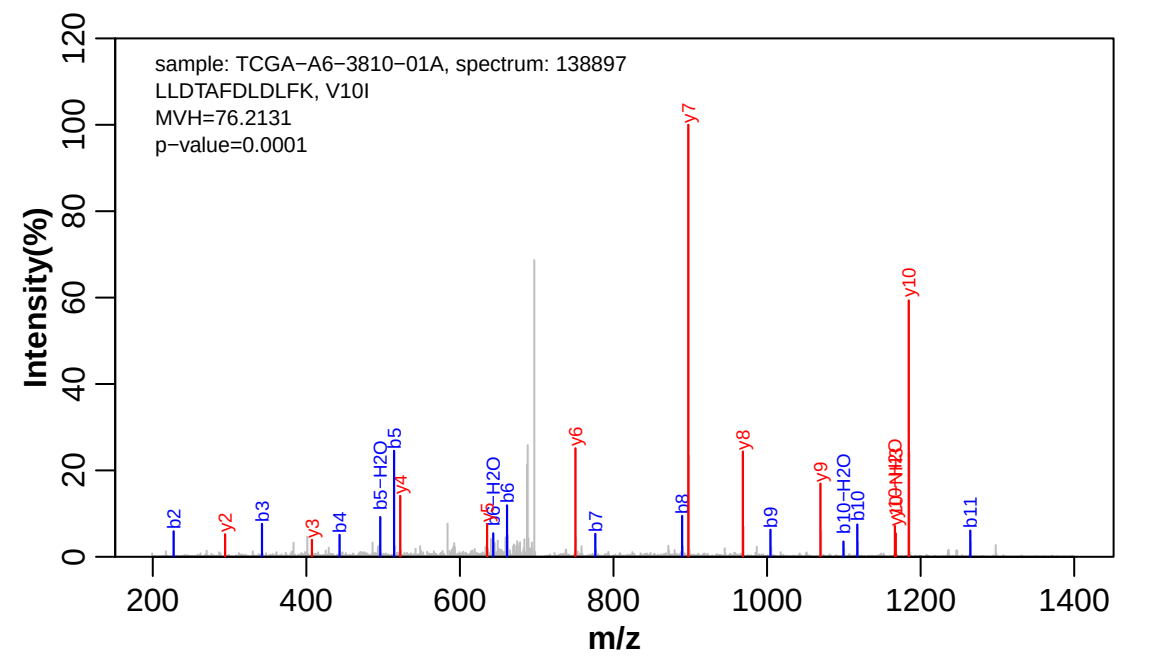

sample: TCGA−A6−3810−01A, spectrum: 23886
GVAGSSVAVLCPYNR, G5S
MVH=24.5710
p−value=0.0001
Intensity(%)
m/z
y4
y5
y7
y8
y9
y10
b7−H2O
b8−H2O
b9−H2O
b10
b11
y5−NH3

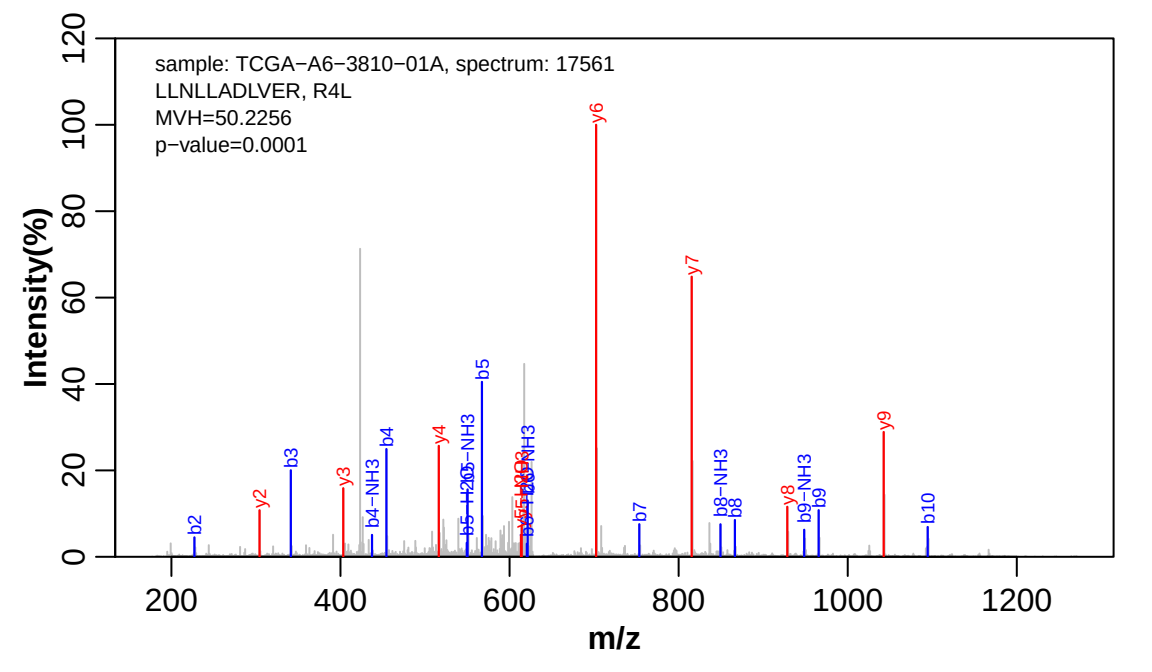

sample: TCGA−A6−3810−01A, spectrum: 113368
KSVEEYANCHLAR, P2S
MVH=56.2646
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
y2
b6++−H2O
y6++
y7−NH3
b8++−H2O
y4−NH3
y8−NH3
y9++H2O
b10++−NH3
y11++
b11++−H2O
y12++−H2O
b12++
y12++
y6
b7
y7

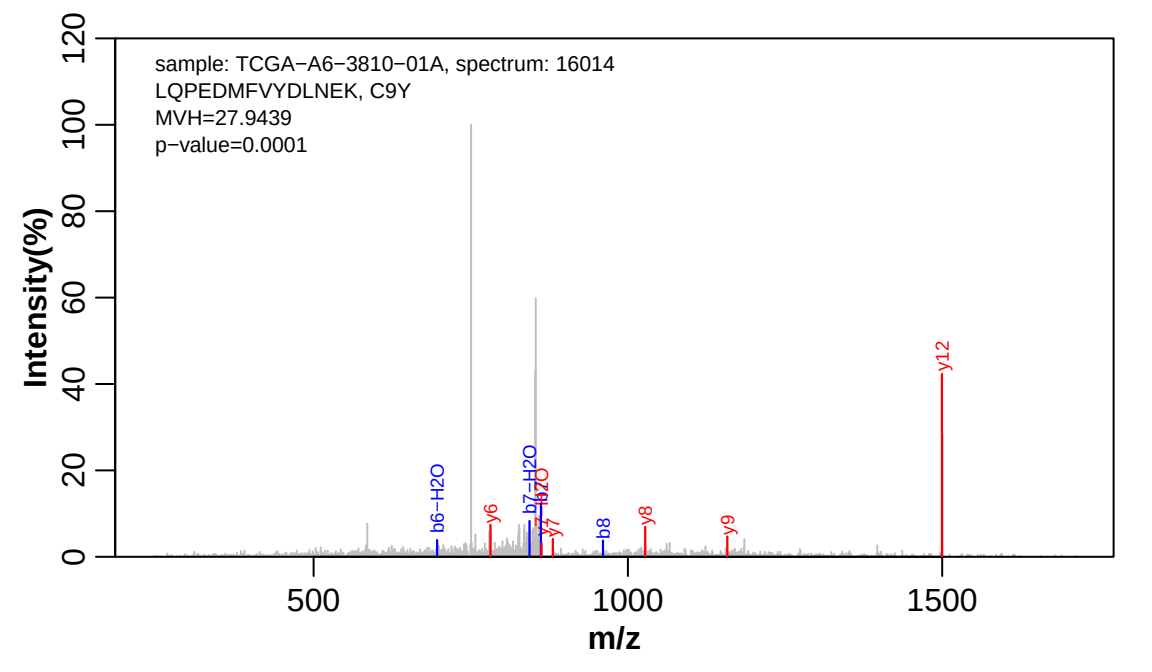

sample: TCGA−A6−3810−01A, spectrum: 52712
LADGGGAGGTFQPYLDTLR, V1L
MVH=36.8666
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y9
y10
y13
y14
b16
y3
y4
b7−H2O
b8−H2O
b9−H2O
y11−NH3
y12−NH3
b12−H2O

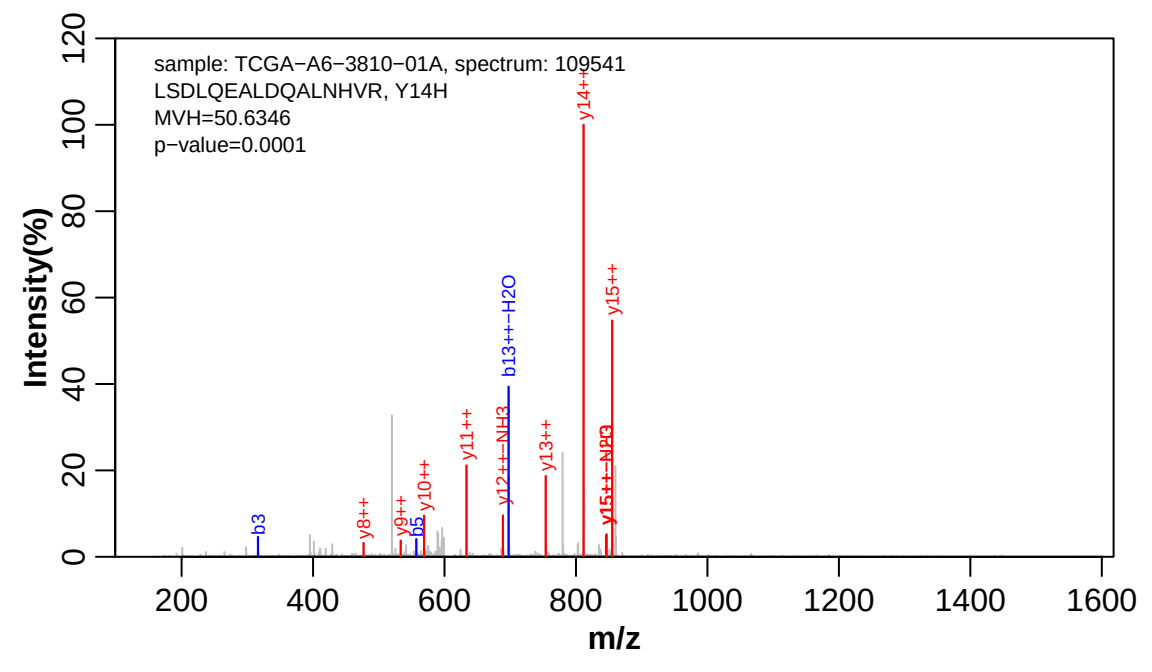

sample: TCGA−A6−3810−01A, spectrum: 2698
LALQPGTVGPQGR, V3I
MVH=56.6159
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b4
y4
y5
y6
b8
b9
y9
y10

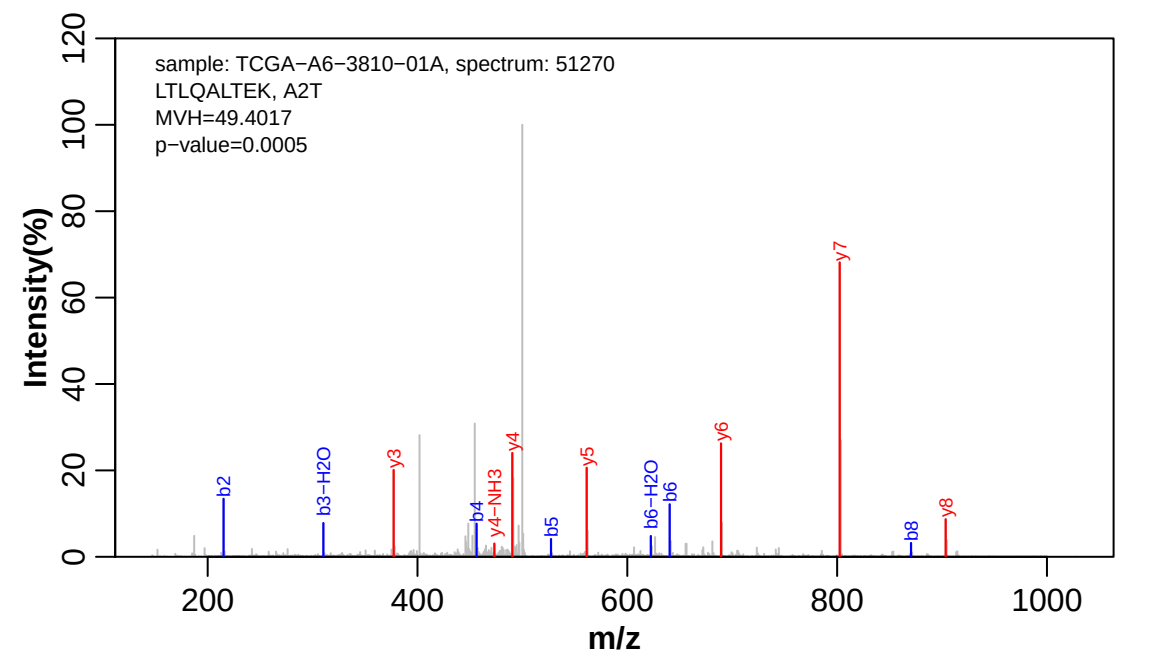

sample: TCGA−A6−3810−01A, spectrum: 35015
LFEEDPAVGALVLTGGDK, T1I
MVH=87.4640
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
b5−H2O
b5
y6
y7
b7
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

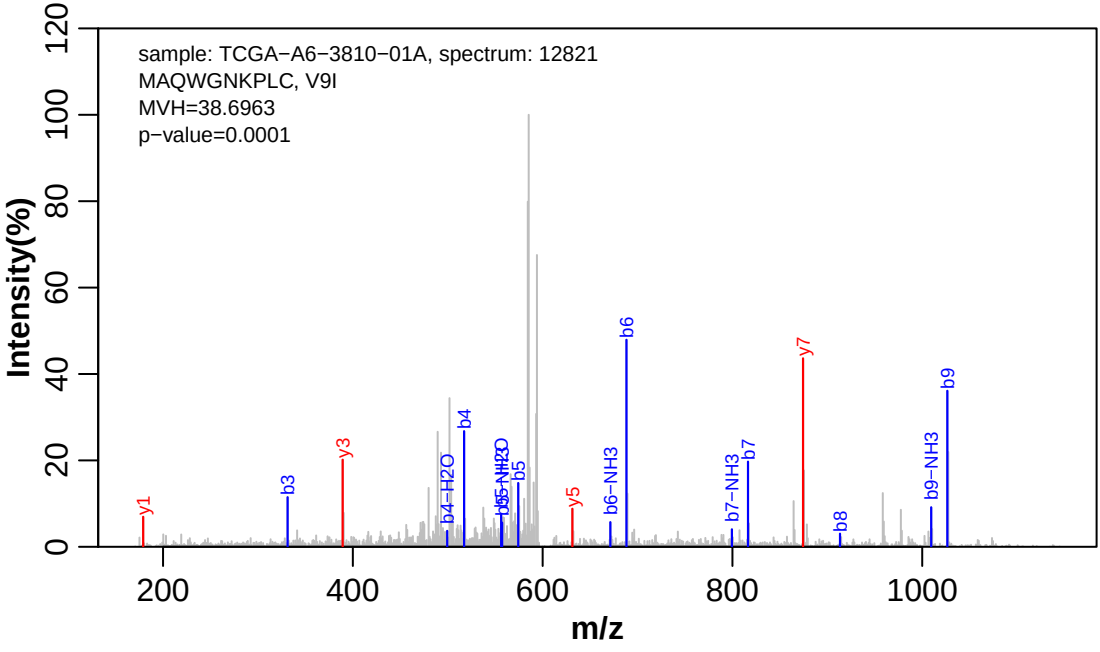

sample: TCGA−A6−3810−01A, spectrum: 138897
LLDTAFDLDLFK, V10I
MVH=76.2131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9
y9
b10−H2O
b10
y10−NH3
y10
b11

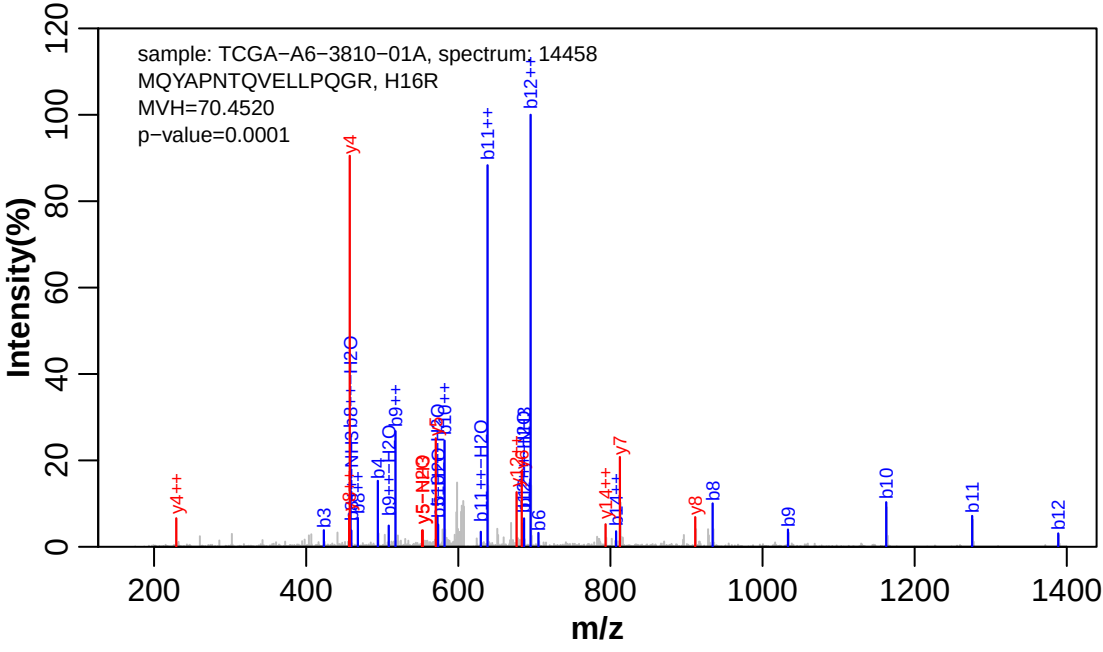

sample: TCGA−A6−3810−01A, spectrum: 17561
LLNLLADLVER, R4L
MVH=50.2256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

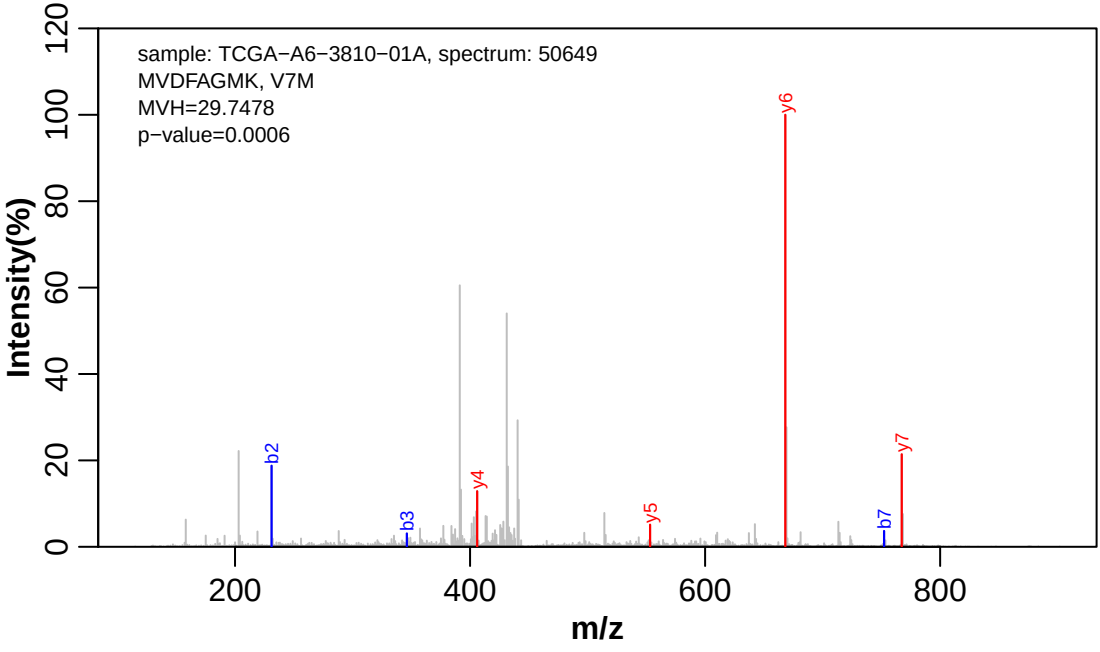

sample: TCGA−A6−3810−01A, spectrum: 16014
LQPEDMFVYDLNEK, C9Y
MVH=27.9439
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b6−H2O
y6
b7−H2O
b7
y7
b8
y8
y9
y12

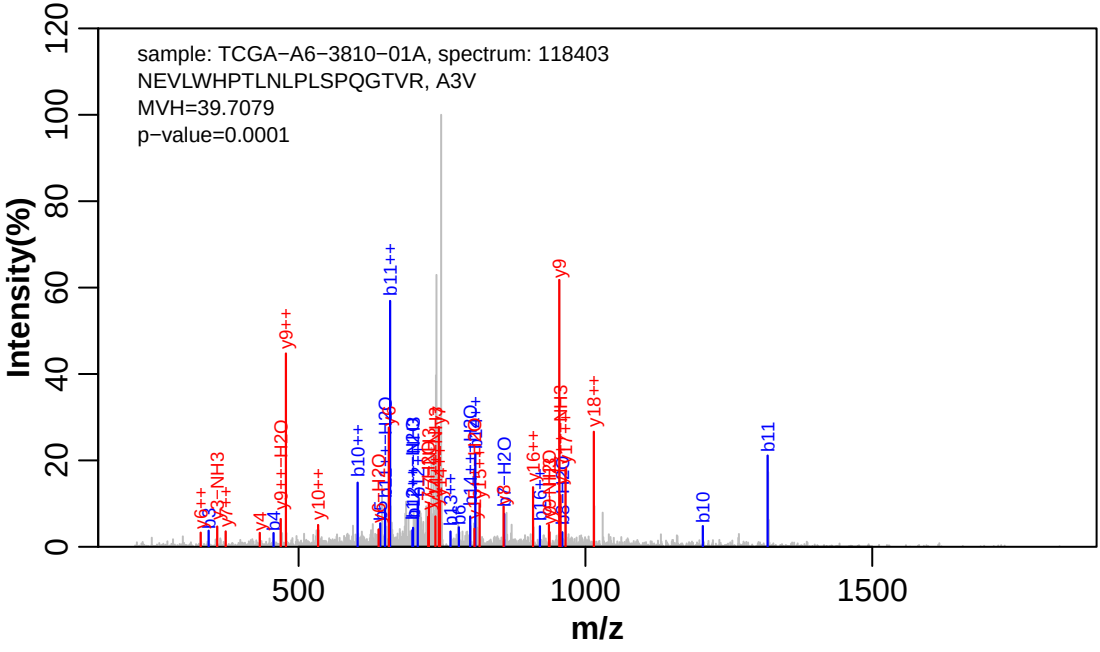

sample: TCGA−A6−3810−01A, spectrum: 109541
LSDLQEALDQALNHVR, Y14H
MVH=50.6346
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y8++
y9++
b5
y10++
y11++
y12++−NH3
b13++−H2O
y13++
y14++
y15++
y15++−NH3

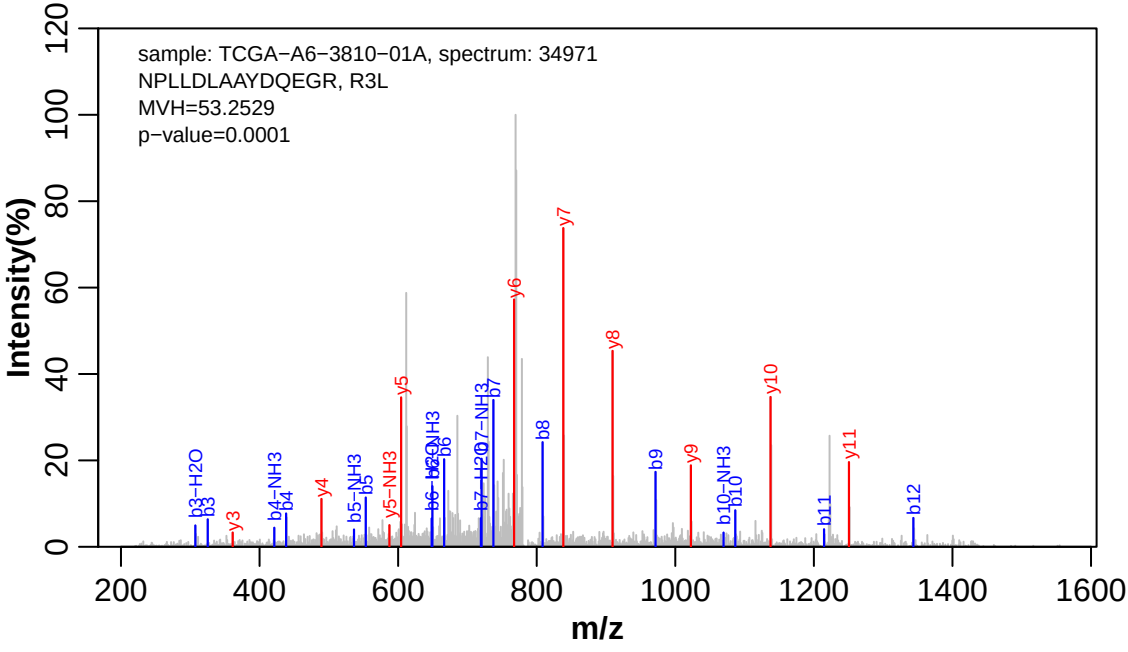

sample: TCGA−A6−3810−01A, spectrum: 51270
LTLQALTEK, A2T
MVH=49.4017
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
y3
b4
y4−NH3
y4
b5
y5
b6−H2O
b6
y6
y7
b8
y8

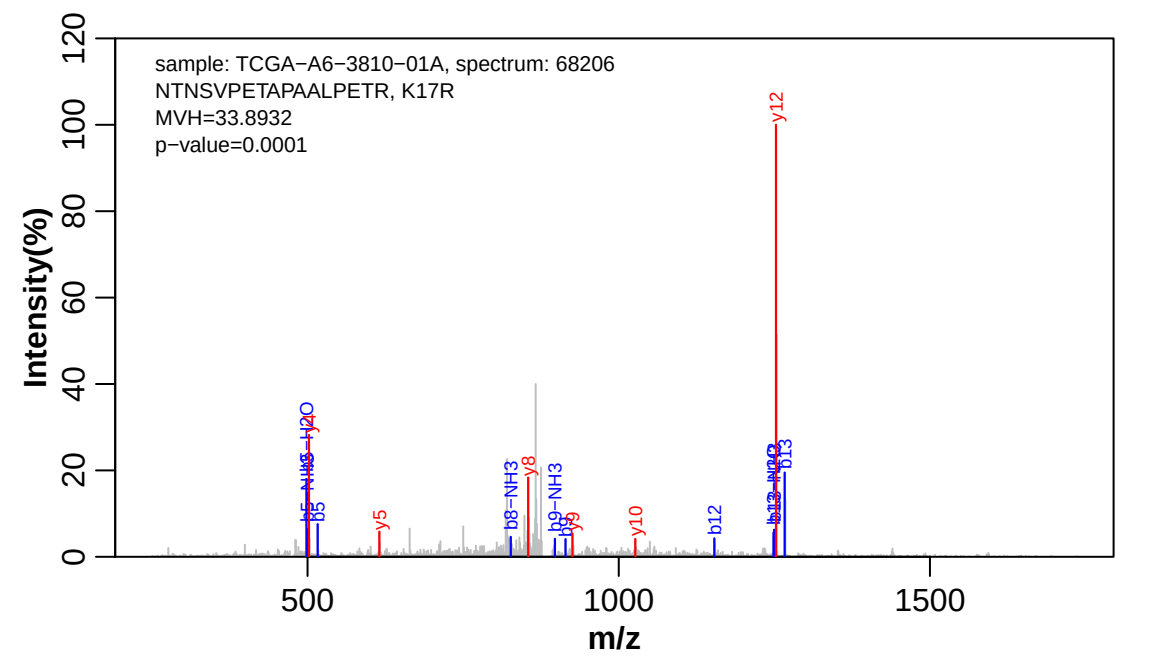

sample: TCGA−A6−3810−01A, spectrum: 12821
MAQWGNKPLC, V9I
MVH=38.6963
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6
b7−NH3
b7
y7
b8
b9−NH3
b9

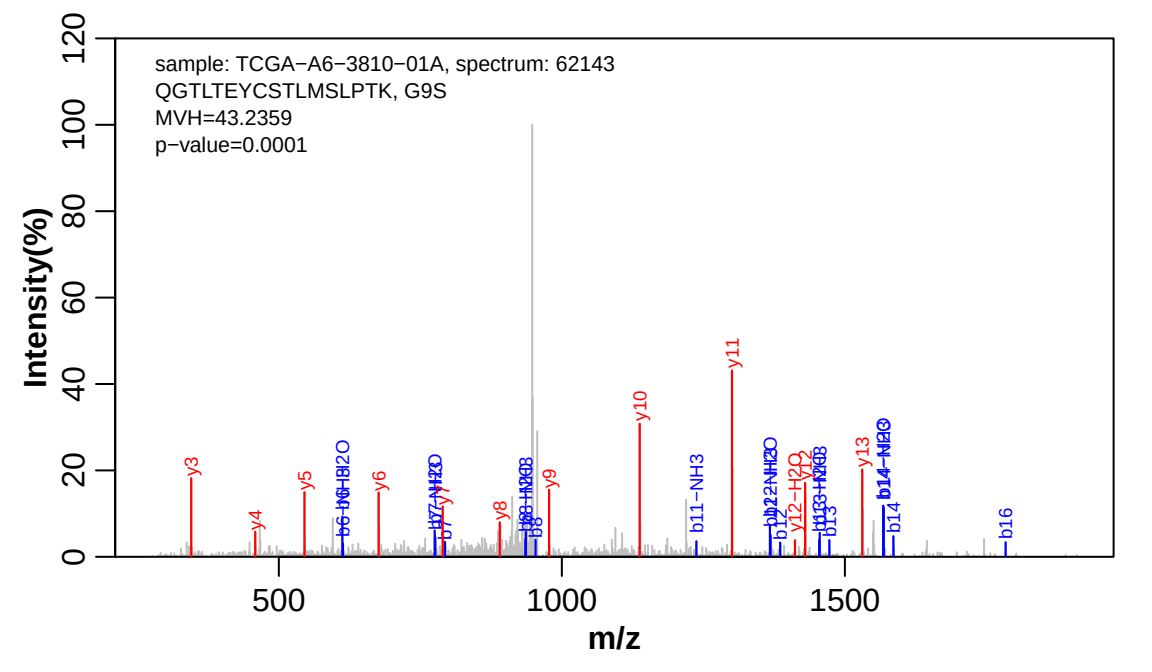

sample: TCGA−A6−3810−01A, spectrum: 14458
MQYAPNTQVELLPQGR, H16R
MVH=70.4520
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b12++
b11++
y4++
b3
b8++−NH3
b8++−H2O
b4
b9++−H2O
b9++
y5−NH3
y5−H2O
y5
b10++
b11++−H2O
y12++
y7
y14++
b14++
y8
b8
b9
b10
b11
b12
b6

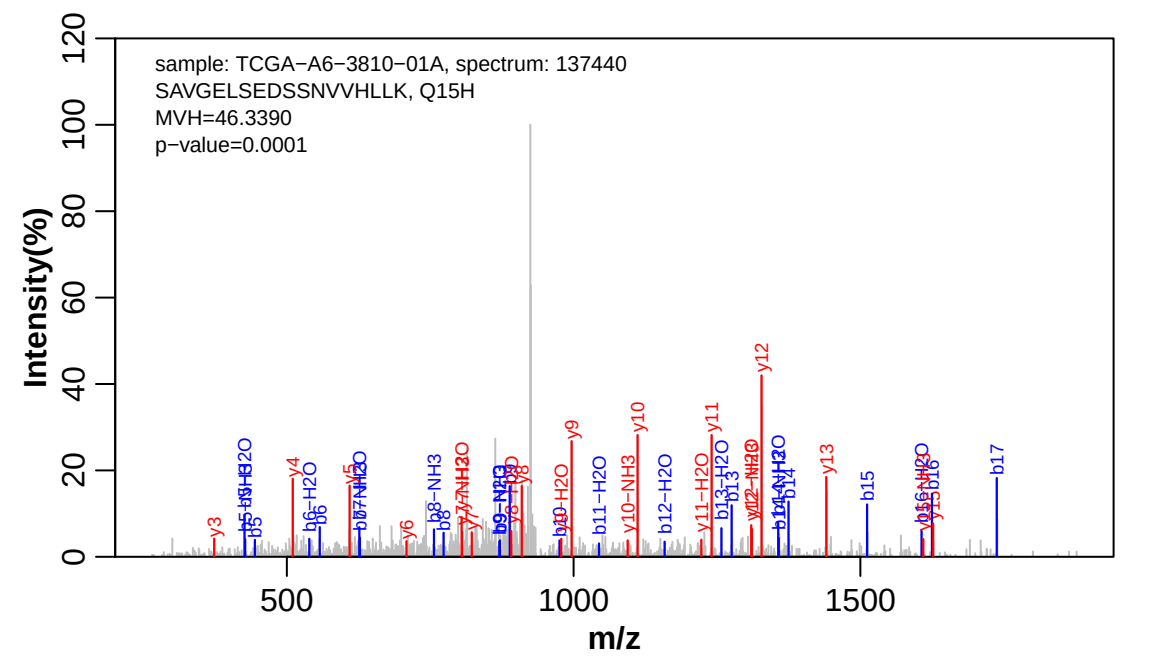

sample: TCGA−A6−3810−01A, spectrum: 50649
MVDFAGMK, V7M
MVH=29.7478
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7
b7

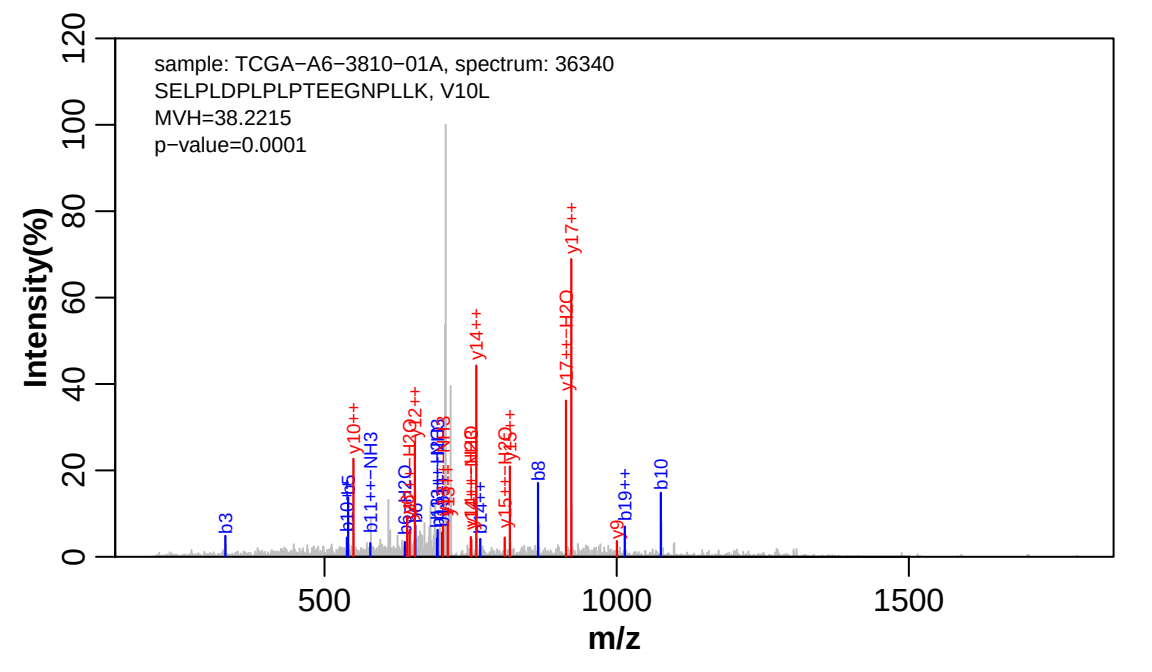

sample: TCGA−A6−3810−01A, spectrum: 118403
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=39.7079
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9++
b11++
y9
y18++
b11
b10
y10++
b10++
y8−H2O
y16++
b4
y4
b6
b3++
y7++−NH3
b3−NH3
y6++
y9++−H2O
b10++−H2O
b11++−H2O
y9−H2O
y9++−NH3
y8−NH3
y15++−H2O
y14++−H2O
b14++−H2O
b14++−NH3
y13++−H2O
y13++−NH3
y12++−H2O
y12++−NH3
y11++−H2O
y11++−NH3
y10++−H2O
y10++−NH3
b9++−H2O
b9++−NH3
b8++−H2O
b8++−NH3
b7++−H2O
b7++−NH3
b6++−H2O
b6++−NH3
b5++−H2O
b5++−NH3
b4++−H2O
b4++−NH3
b3++−H2O
b3++−NH3

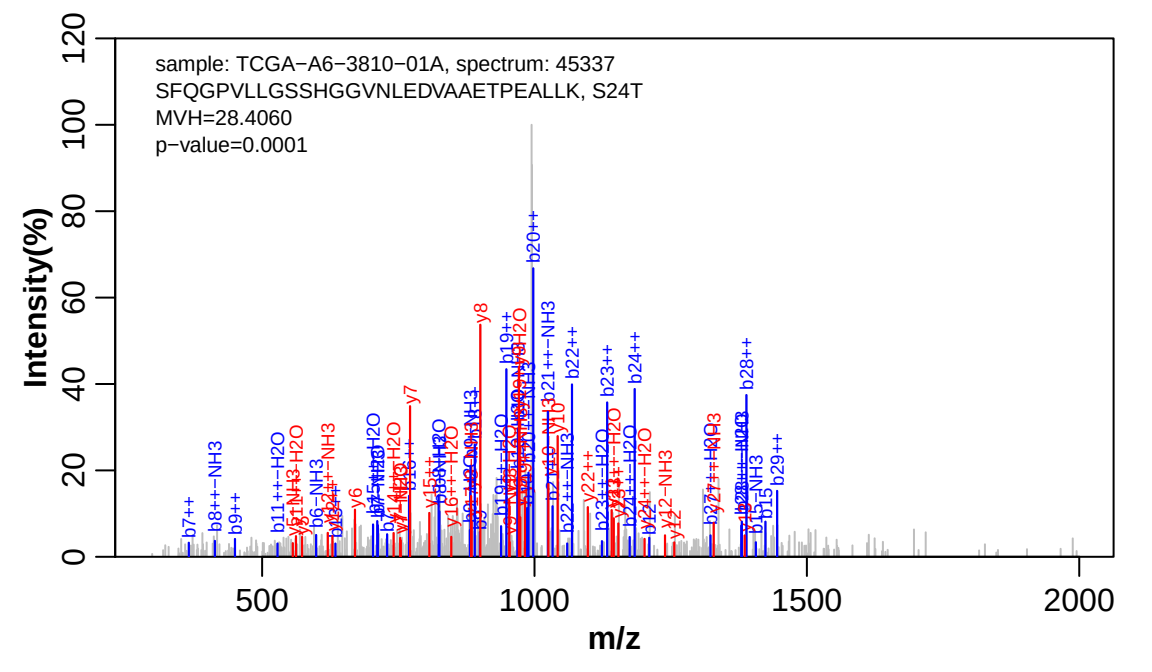

sample: TCGA−A6−3810−01A, spectrum: 34971
NPLLDLAAYDQEGR, R3L
MVH=53.2529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
y5
b6−H2O
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6
y7
b8
y8
b9
y9
b10−NH3
b10
y10
b11
y11
b12

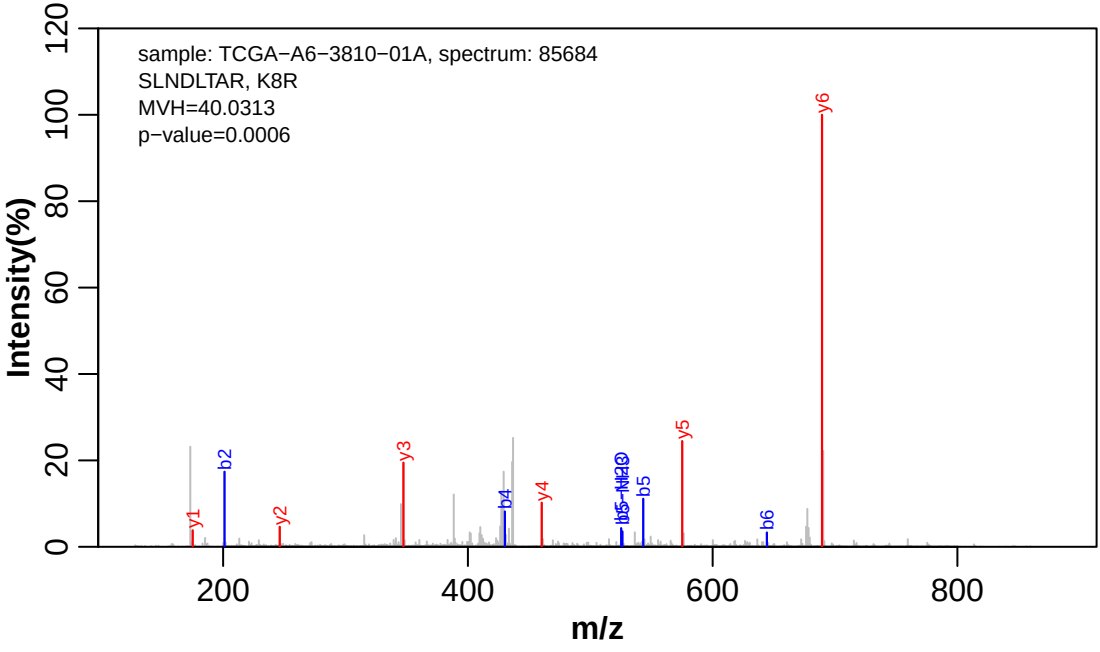

sample: TCGA−A6−3810−01A, spectrum: 68206
NTNSVPETAPAALPETR, K17R
MVH=33.8932
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y5
y8
y10
b12
b13
b8−NH3
b9−NH3
b5

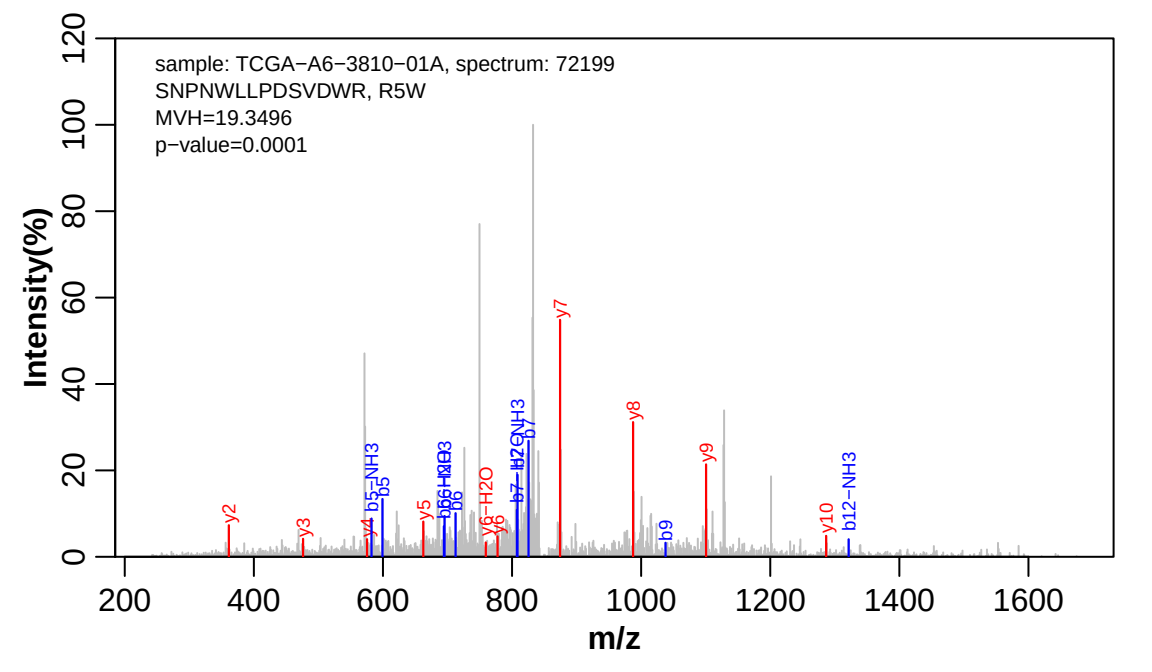

sample: TCGA−A6−3810−01A, spectrum: 62143
QGTLTEYCSTLMSLPTK, G9S
MVH=43.2359
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y8
y9
y10
y11
y13
b11−NH3
y12−H2O
b14
b16

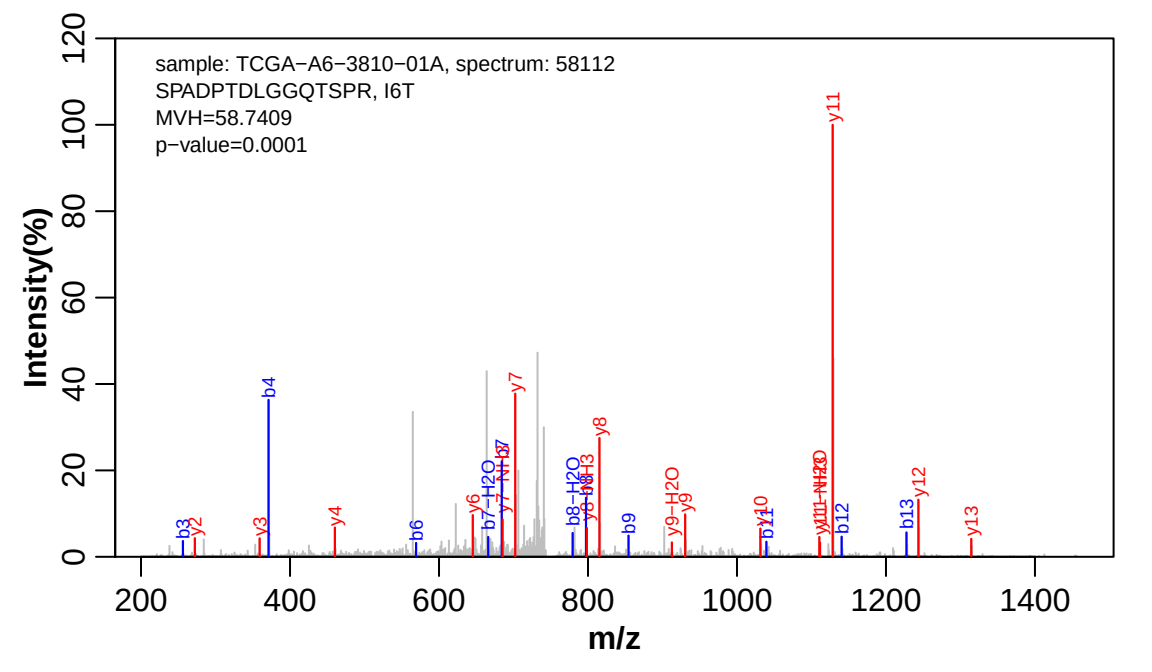

sample: TCGA−A6−3810−01A, spectrum: 137440
SAVGELSEDSSNVVHLLK, Q15H
MVH=46.3390
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
b5−H2O
b5−NH3
y4
b6
b6−H2O
y5
b7−NH3
b8
b8−NH3
y6
y7−NH3
y8
b9−NH3
b10
b10−H2O
y9
b11−H2O
y10−NH3
y10
b12−H2O
y11−H2O
y11
b13−H2O
b13
y12−NH3
y12
b14−H2O
b14
y13
b15
b16−H2O
b16
b17

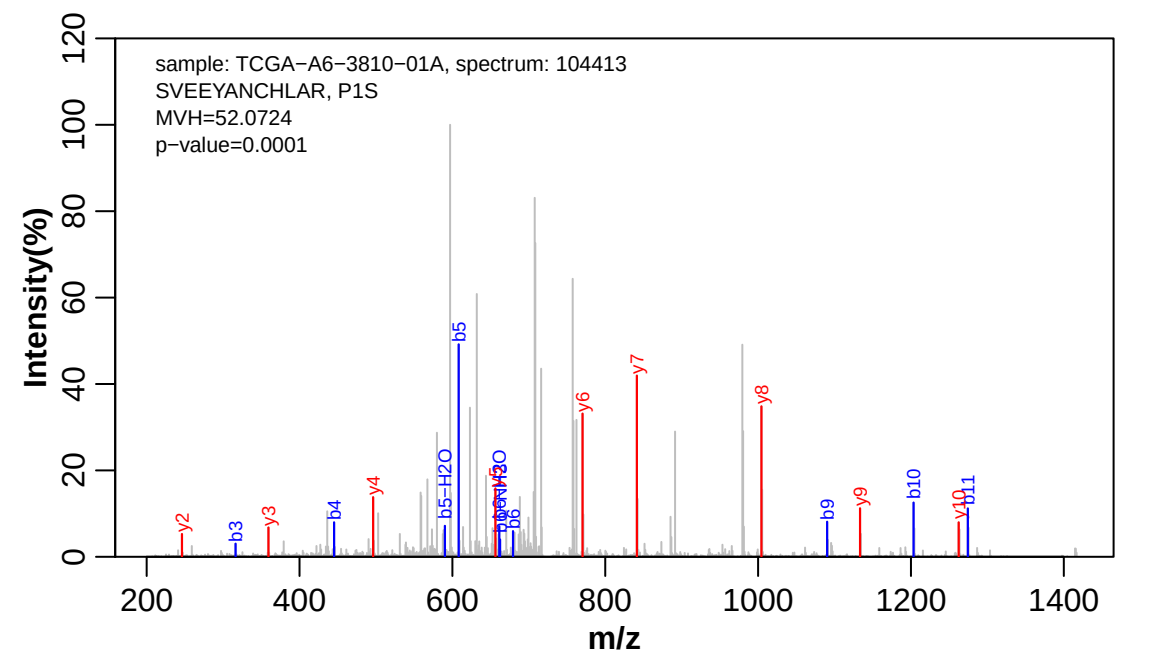

sample: TCGA−A6−3810−01A, spectrum: 36340
SELPLDPLPLPTEEGNPLLK, V10L
MVH=38.2215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b10+i5
y10++
b11++−NH3
b6−H2O
y12++−H2O
y14++
y17++
y17++−H2O
y14++−NH3
y14++−H2O
b14++
y15++−H2O
y15++
b8
y9
b19++
b10

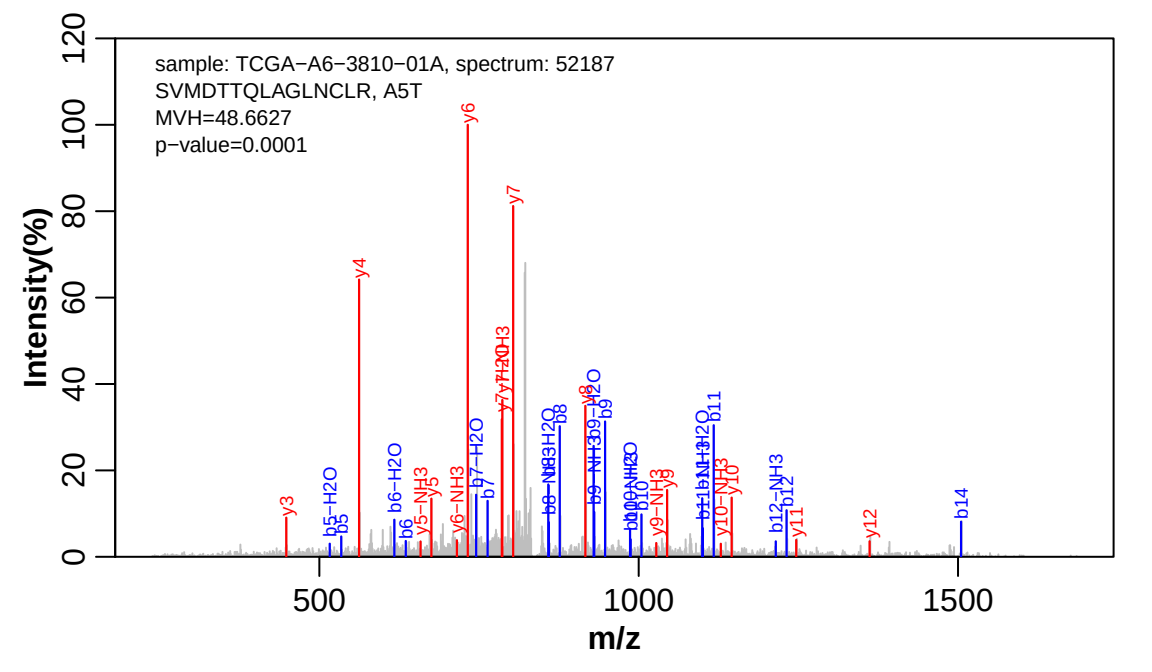

sample: TCGA−A6−3810−01A, spectrum: 45337
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=28.4060
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b7++
b8++−NH3
b9++
b11++−H2O
b11++−NH3
y6−H2O
y6−NH3
b6−NH3
y6
y15++
y16++−H2O
y8
b20++
b19++
b21++−NH3
b22++
y10
y22++
b23++
b24++
b28++
b29++

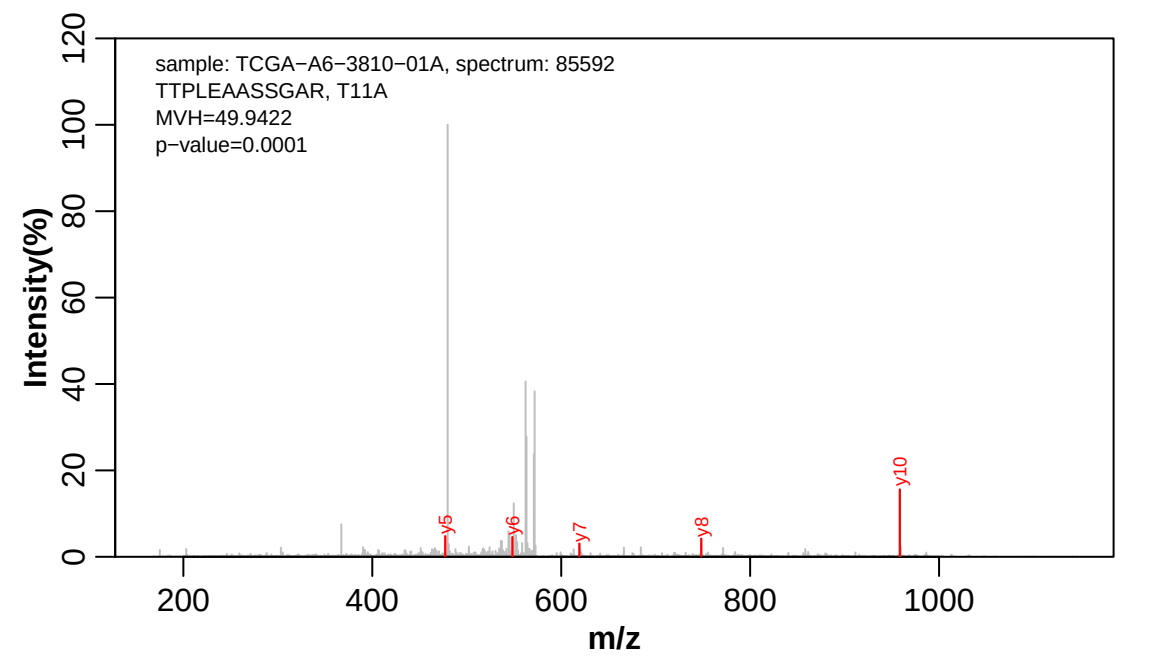

sample: TCGA−A6−3810−01A, spectrum: 85684
SLNDLTAR, K8R
MVH=40.0313
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
y3
b4
y4
b5
y5
b6
y6

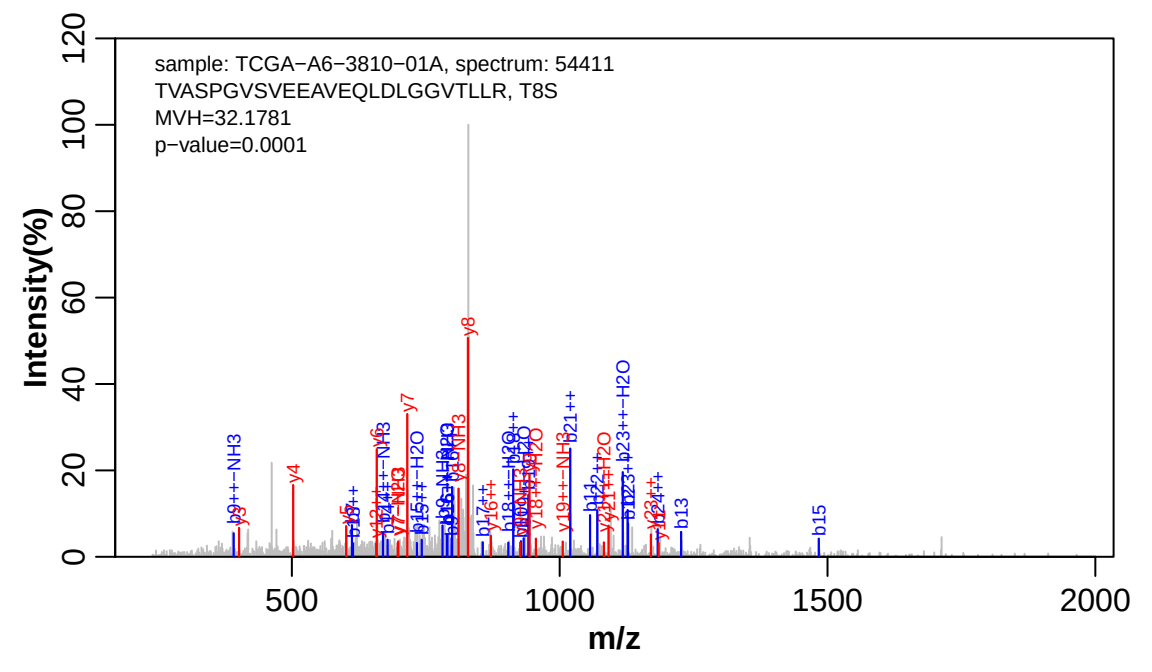

sample: TCGA−A6−3810−01A, spectrum: 72199
SNPNWLLPDSVDWR, R5W
MVH=19.3496
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
b5−NH3
b5
y5
y6−H2O
y6
y7
y8
y9
b9
y10
b12−NH3

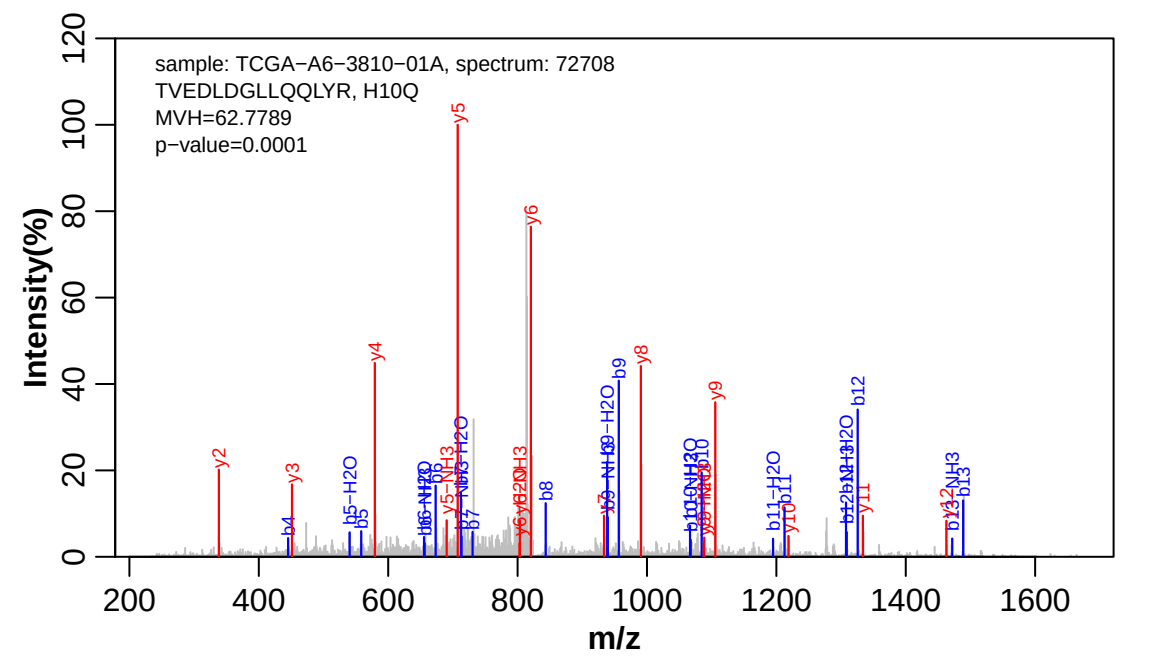

sample: TCGA−A6−3810−01A, spectrum: 58112
SPADPTDLGGQTSPR, I6T
MVH=58.7409
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y6
b7−H2O
y7−NH3
y7
b8−H2O
b8−NH3
y8
b9
y9−H2O
y9
b10
y10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

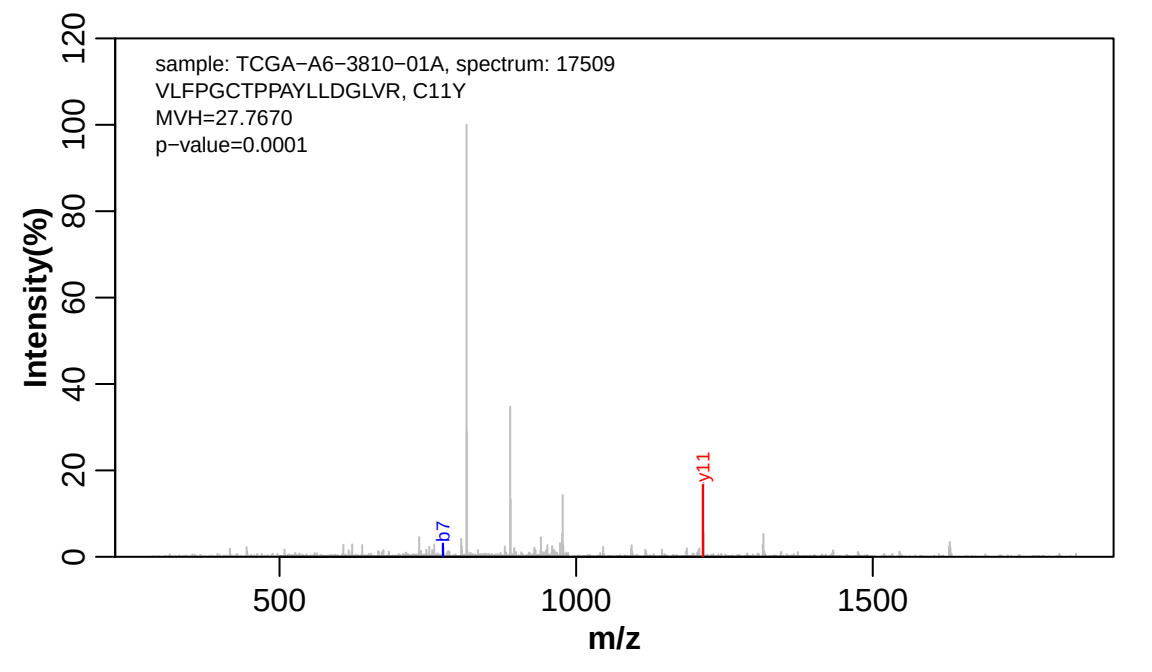

sample: TCGA−A6−3810−01A, spectrum: 104413
SVEEYANCHLAR, P1S
MVH=52.0724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5−H2O
b5
y6
y7
y8
b9
y9
b10
y10
b11

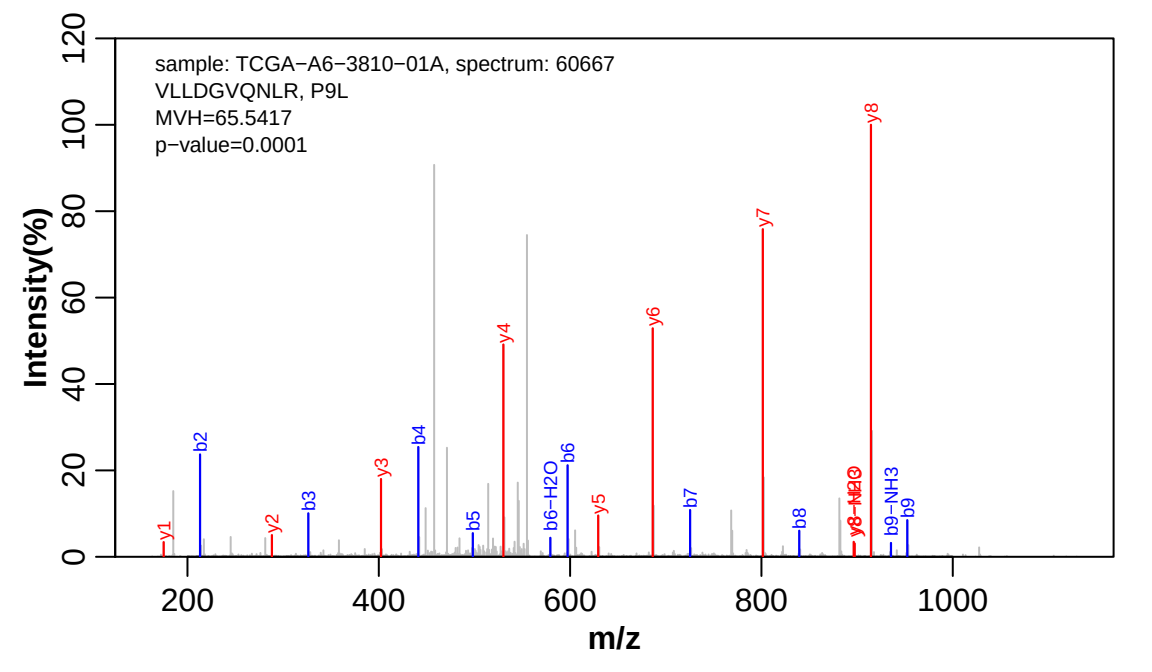

sample: TCGA−A6−3810−01A, spectrum: 52187
SVMDTTQLAGLNCLR, A5T
MVH=48.6627
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
b5
b6
b7
b8
b9
b10
b11
b12
b14

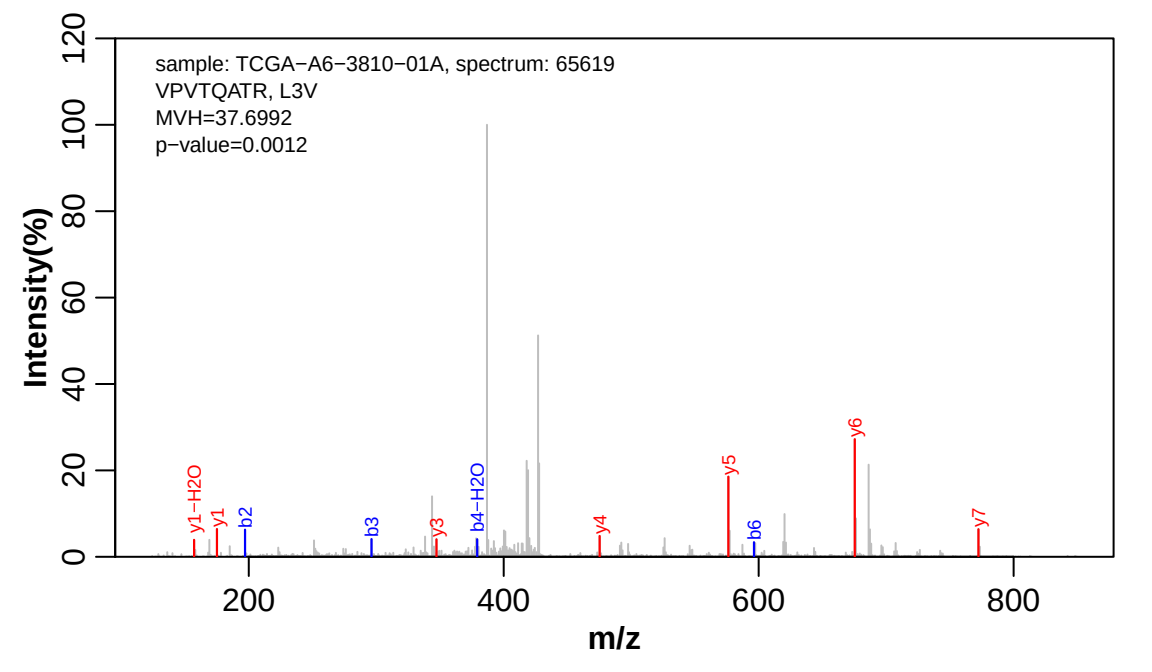

sample: TCGA−A6−3810−01A, spectrum: 85592
TTPLEAASSGAR, T11A
MVH=49.9422
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

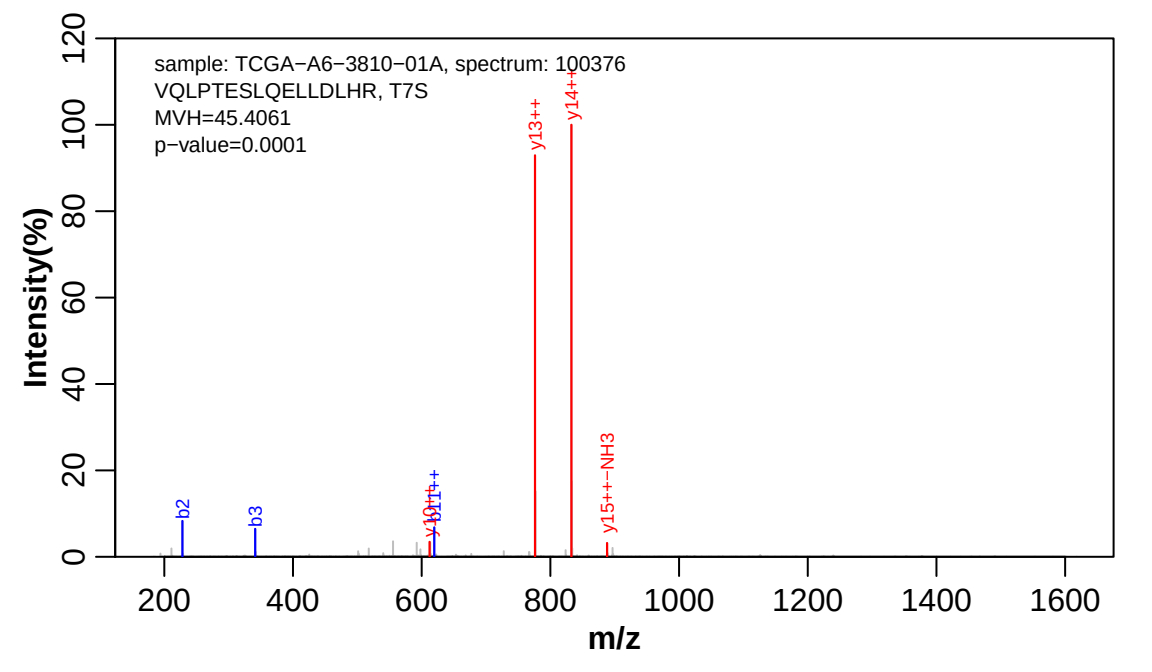

sample: TCGA−A6−3810−01A, spectrum: 54411
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=32.1781
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y8
y4
y7
b15
b13

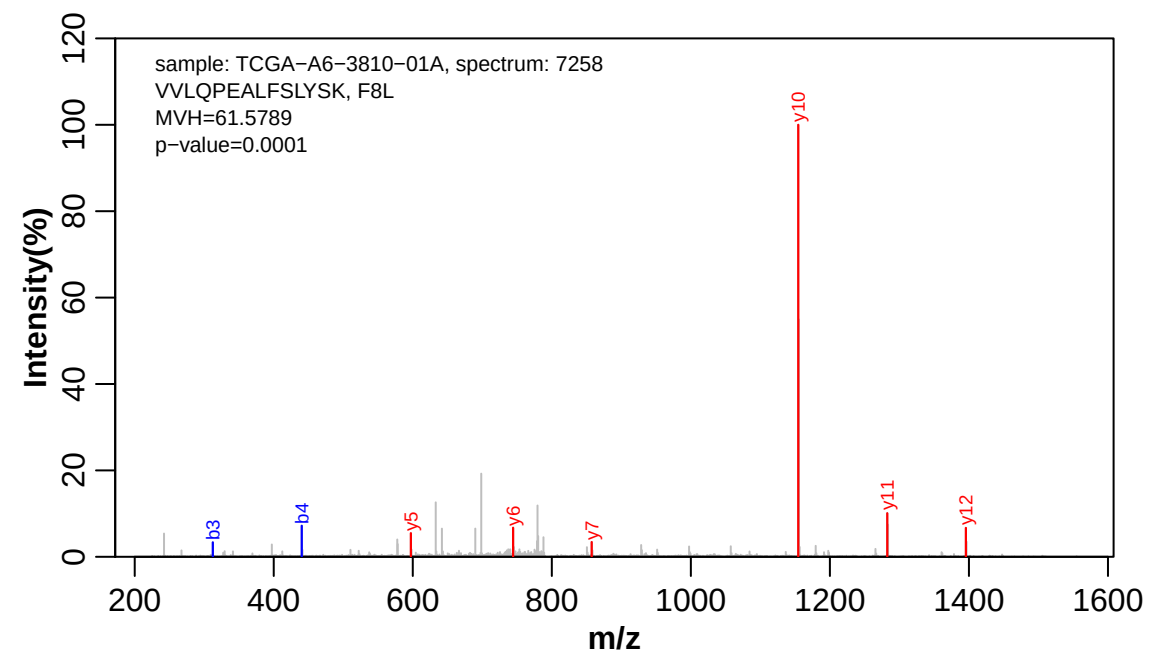

sample: TCGA−A6−3810−01A, spectrum: 72708
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
b5−H2O
b5
y4
y5
y5−NH3
y5−H2O
b7
y6
y6−NH3
b8
y7
y7−NH3
b9−H2O
b9
y8
y9
b10−H2O
b10
y10
b11−H2O
b11
y11
b12
b13
y12
y13

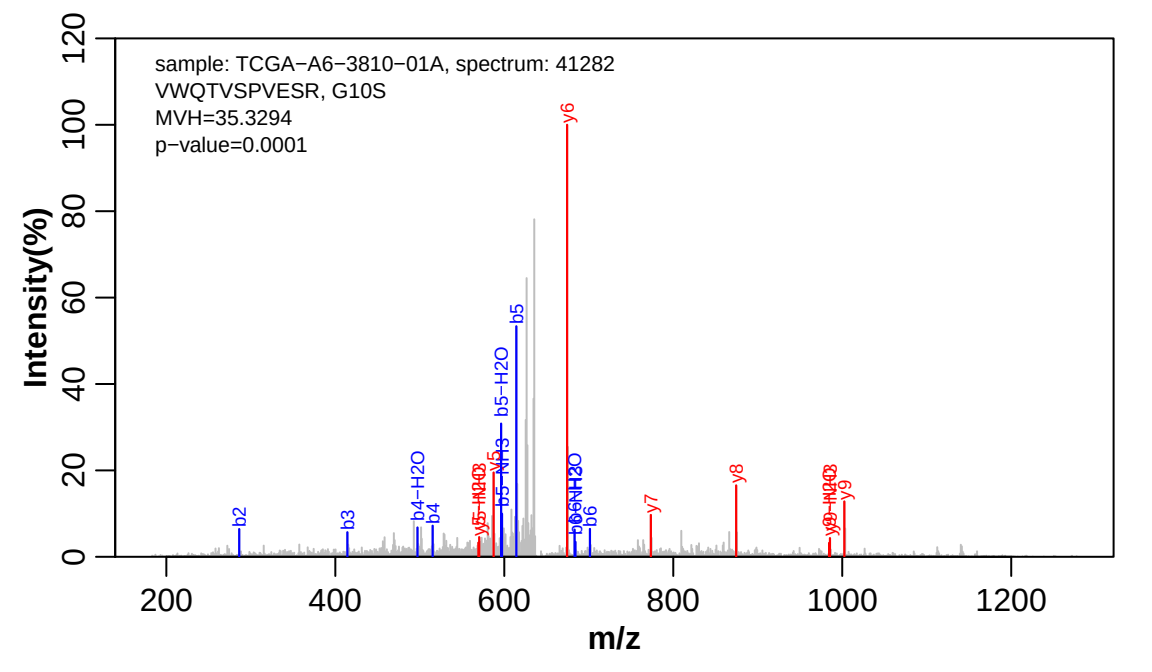

sample: TCGA−A6−3810−01A, spectrum: 17509
VLFPGCTPPAYLLDGLVR, C11Y
MVH=27.7670
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
y11

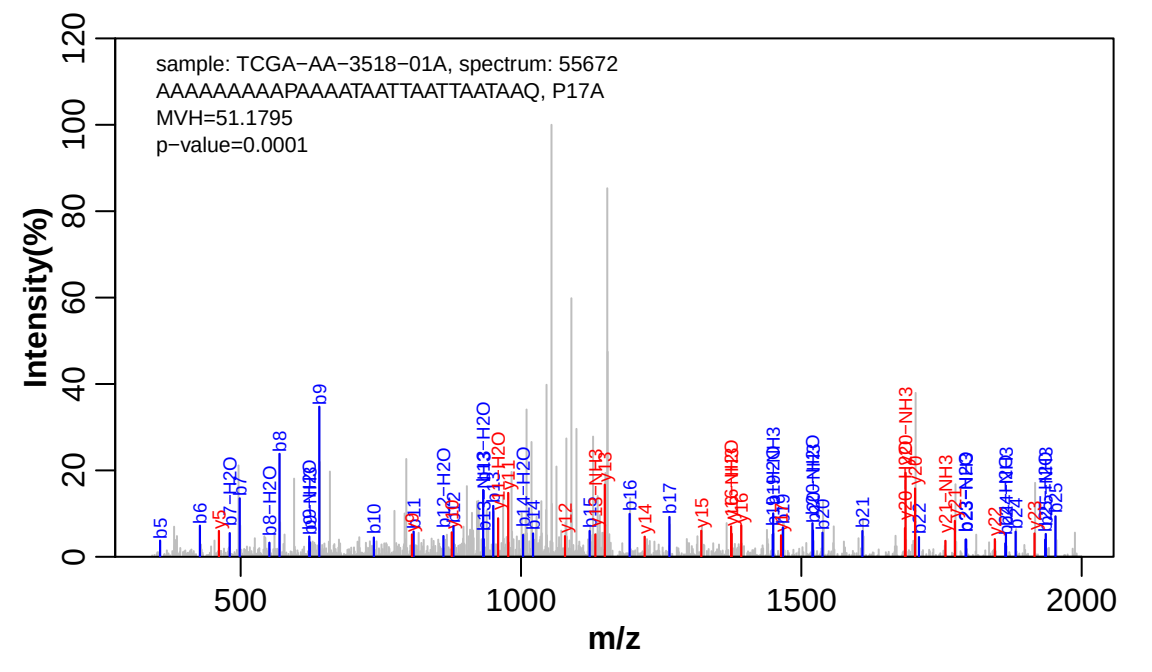

sample: TCGA−A6−3810−01A, spectrum: 60667
VLLDGVQNLR, P9L
MVH=65.5417
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9−NH3
b9

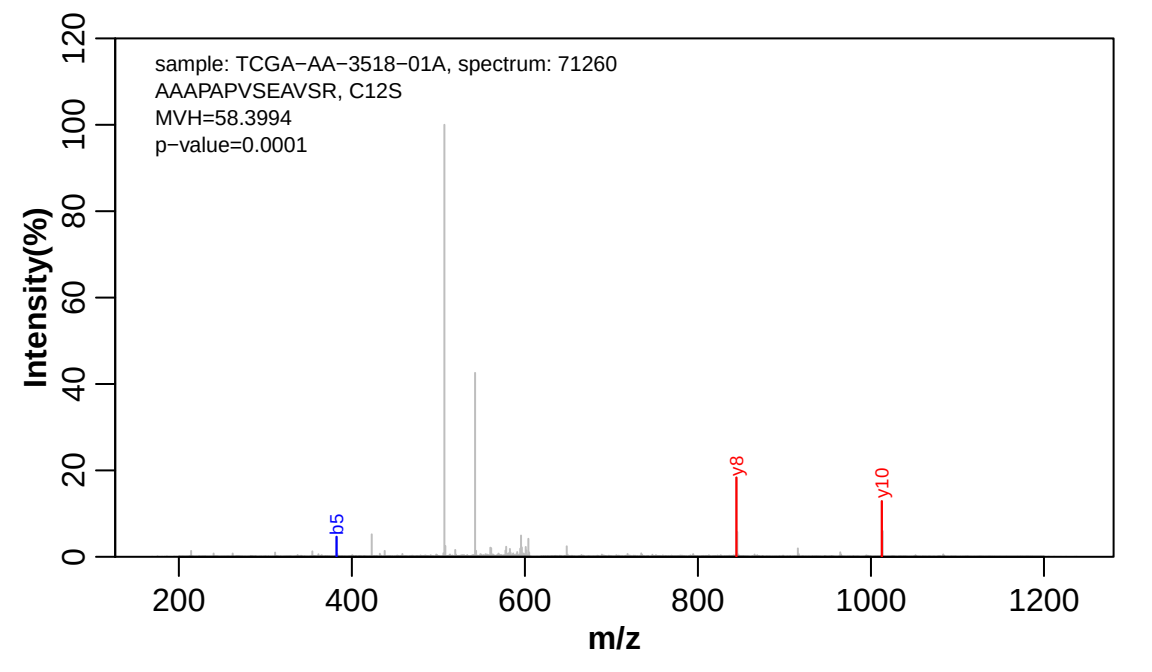

sample: TCGA−A6−3810−01A, spectrum: 65619
VPVTQATR, L3V
MVH=37.6992
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−H2O
y1
b2
b3
y3
b4−H2O
y4
y5
b6
y6
y7

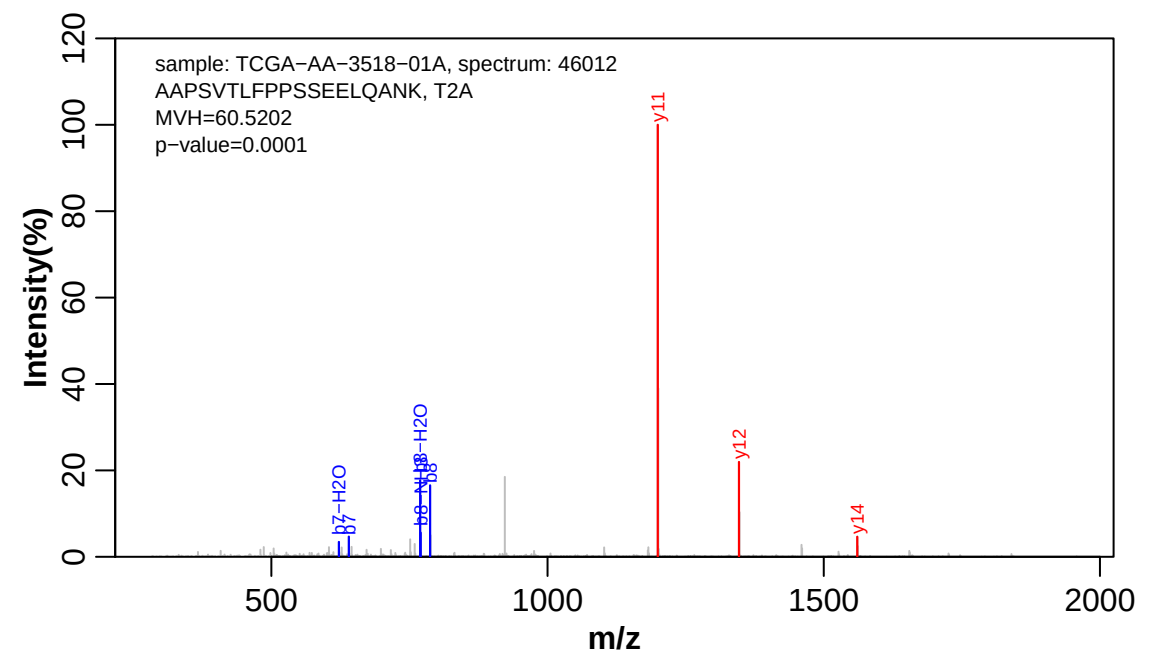

sample: TCGA−A6−3810−01A, spectrum: 100376
VQLPTESLQELLDLHR, T7S
MVH=45.4061
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

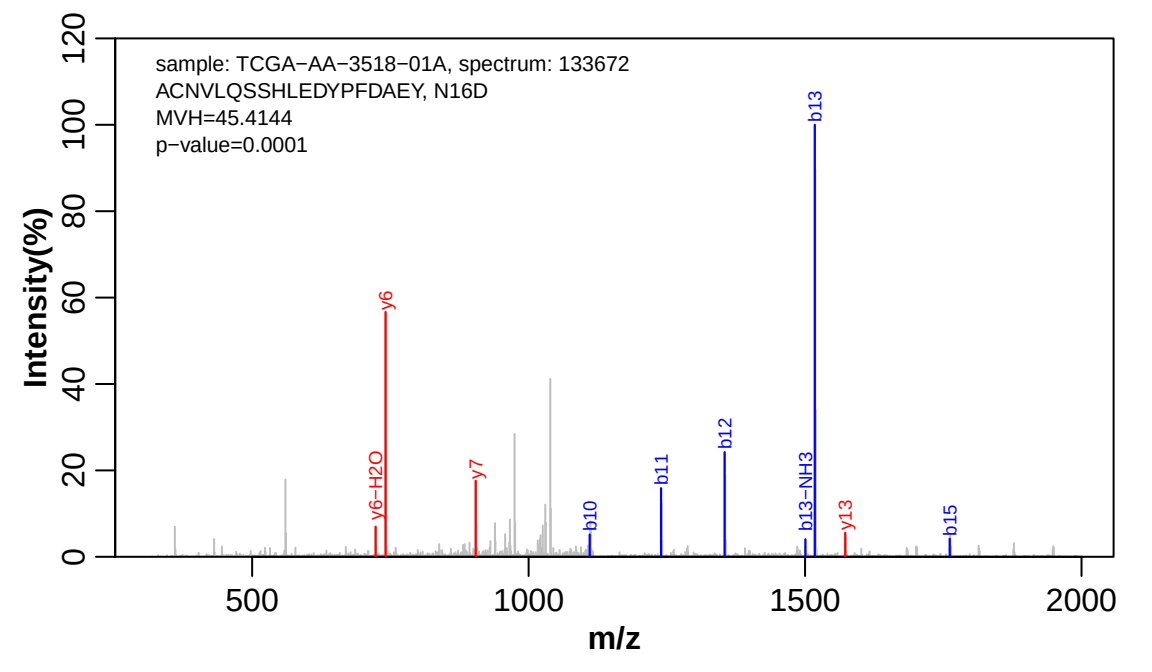

sample: TCGA−A6−3810−01A, spectrum: 7258
VVLQPEALFSLYSK, F8L
MVH=61.5789
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
b4
y5
y6
y7
y10
y11
y12

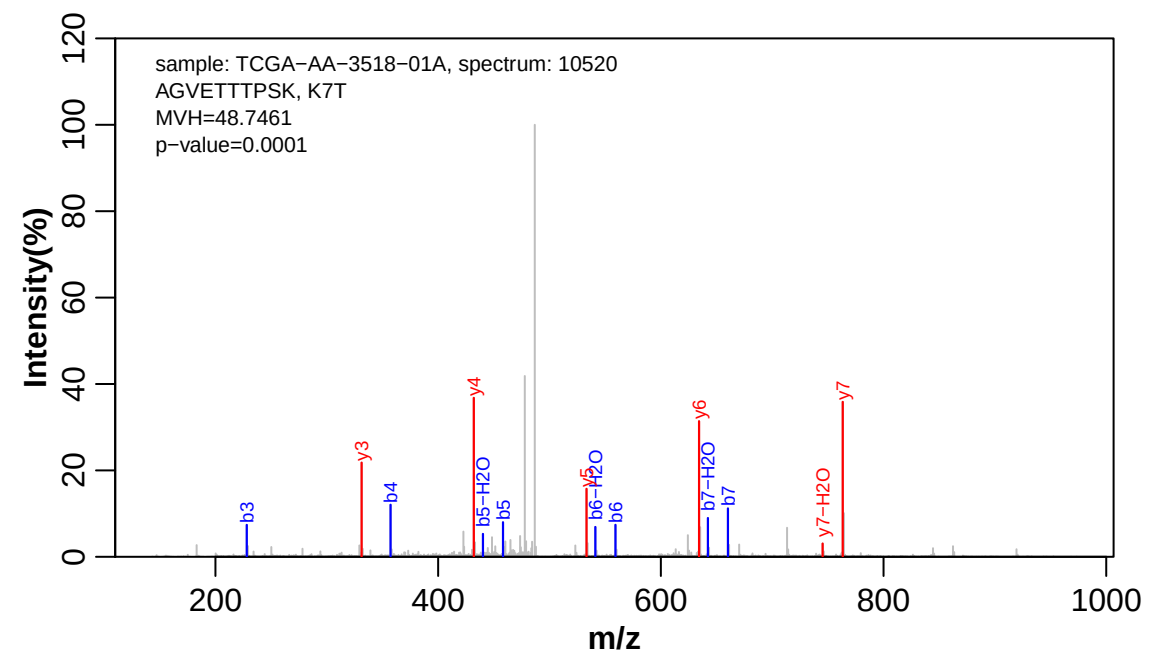

sample: TCGA−A6−3810−01A, spectrum: 41282
VWQTVSPVESR, G10S
MVH=35.3294
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b5
b5−H2O
b4−H2O
b2
b3
b4
y7
y8
y9
b6

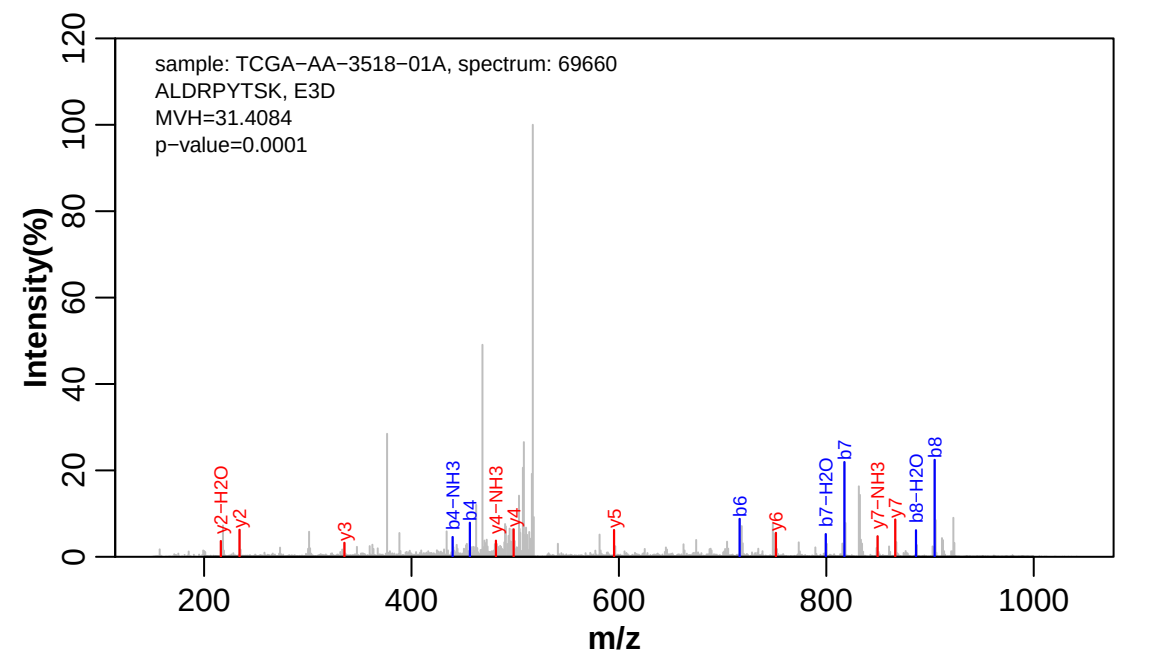

sample: TCGA−AA−3518−01A, spectrum: 55672
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=51.1795
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000

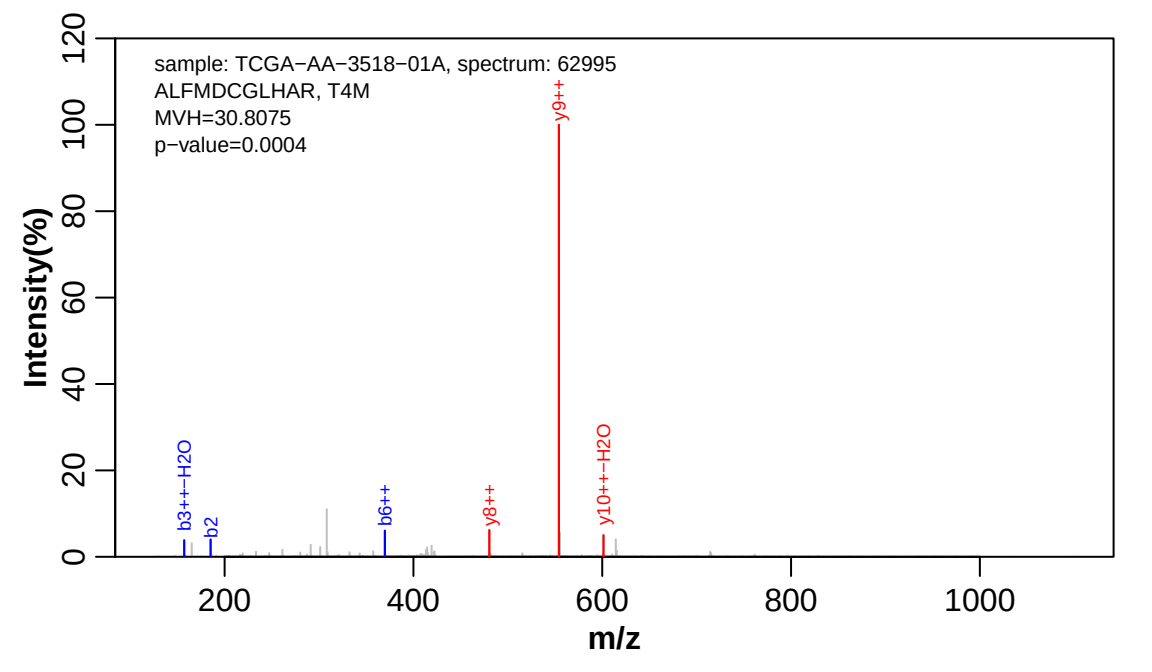

sample: TCGA−AA−3518−01A, spectrum: 71260
AAAPAPVSEAVSR, C12S
MVH=58.3994
p−value=0.0001
b5
y8
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

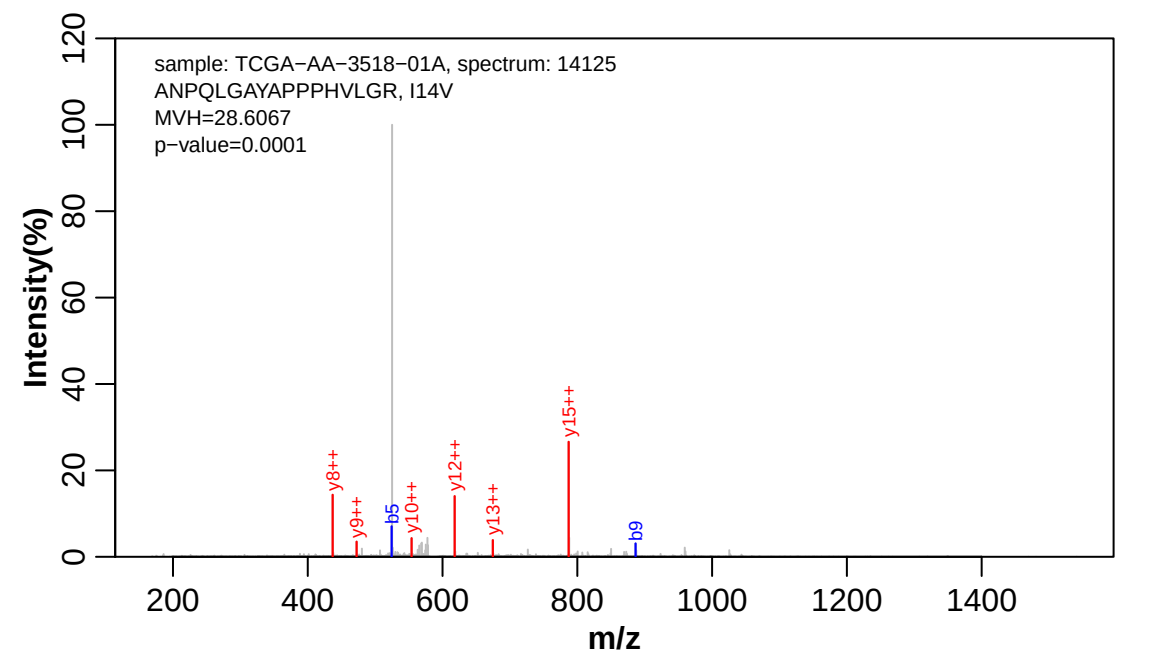

sample: TCGA−AA−3518−01A, spectrum: 46012
AAPSVTLFPPSSEELQANK, T2A
MVH=60.5202
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

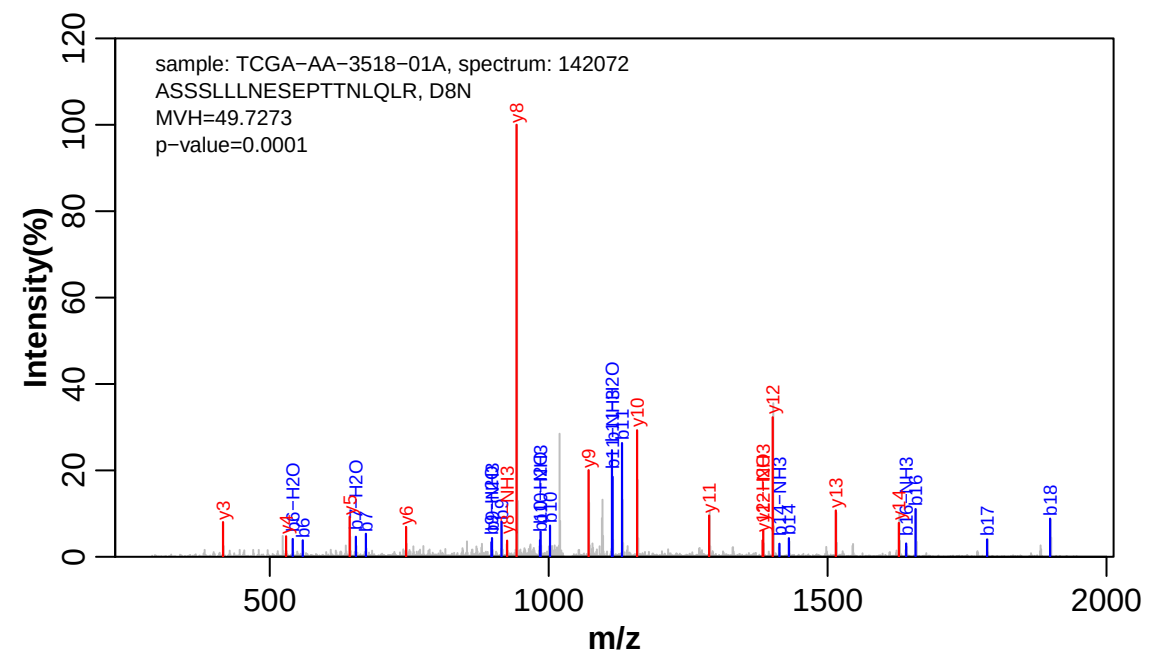

sample: TCGA−AA−3518−01A, spectrum: 133672
ACNVLQSSHLEDYPFDAEY, N16D
MVH=45.4144
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y6
y6−H2O
y7
b10
b11
b12
b13
b13−NH3
y13
b15

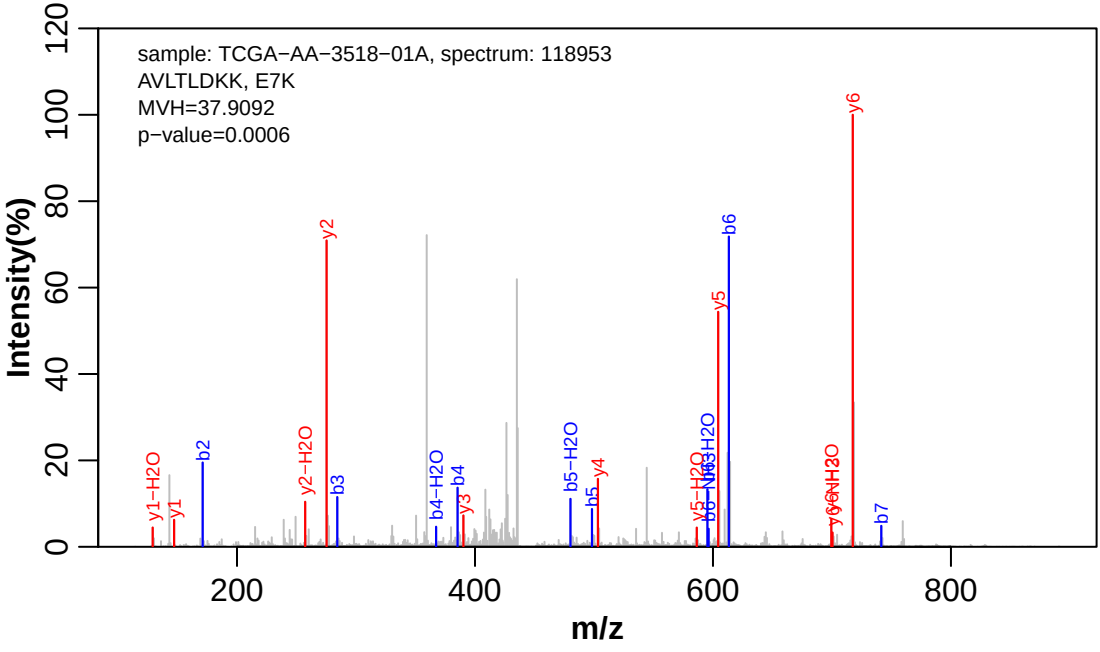

sample: TCGA−AA−3518−01A, spectrum: 10520
AGVETTTPSK, K7T
MVH=48.7461
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−H2O
y7

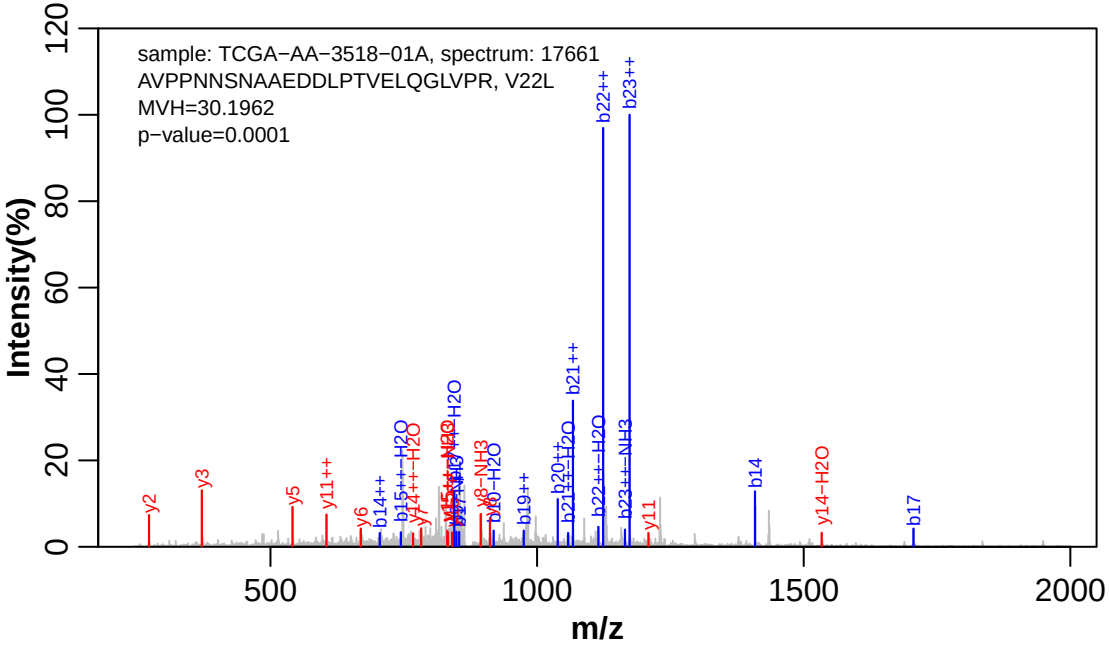

sample: TCGA−AA−3518−01A, spectrum: 69660
ALDRPYTSK, E3D
MVH=31.4084
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2−H2O
y2
y3
b4−NH3
b4
y4−NH3
y4
y5
b6
y6
b7−H2O
b7
y7−NH3
y7
b8−H2O
b8

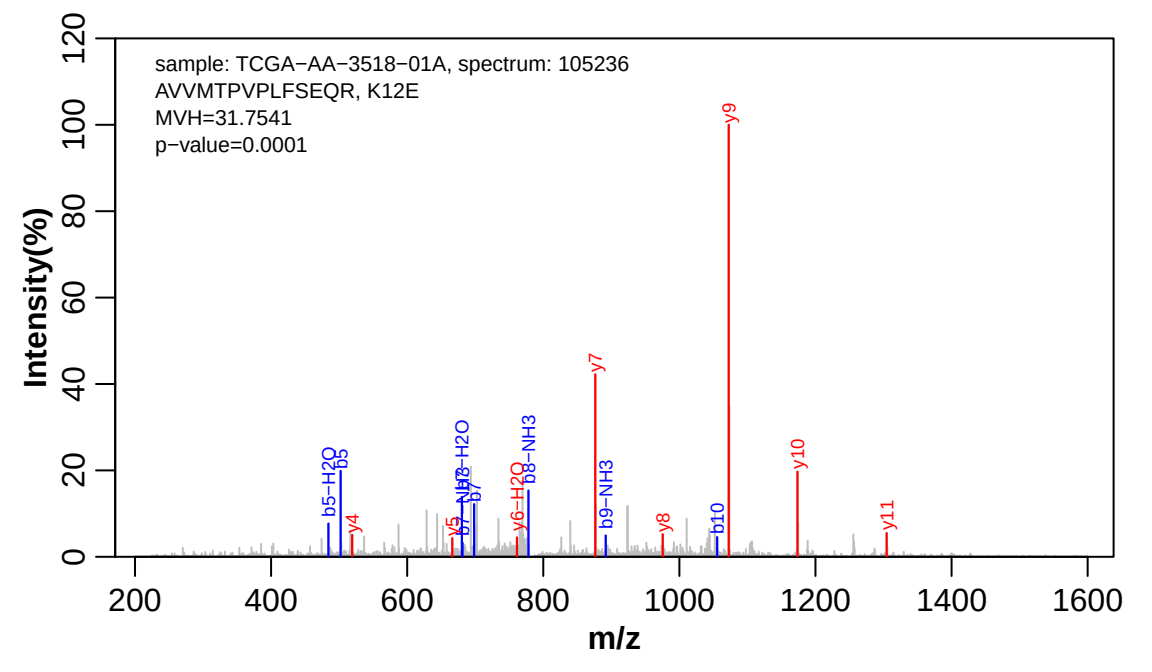

sample: TCGA−AA−3518−01A, spectrum: 62995
ALFMDCGLHAR, T4M
MVH=30.8075
p−value=0.0004
y9++
b3++−H2O
b2
b6++
y8++
y10++−H2O
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

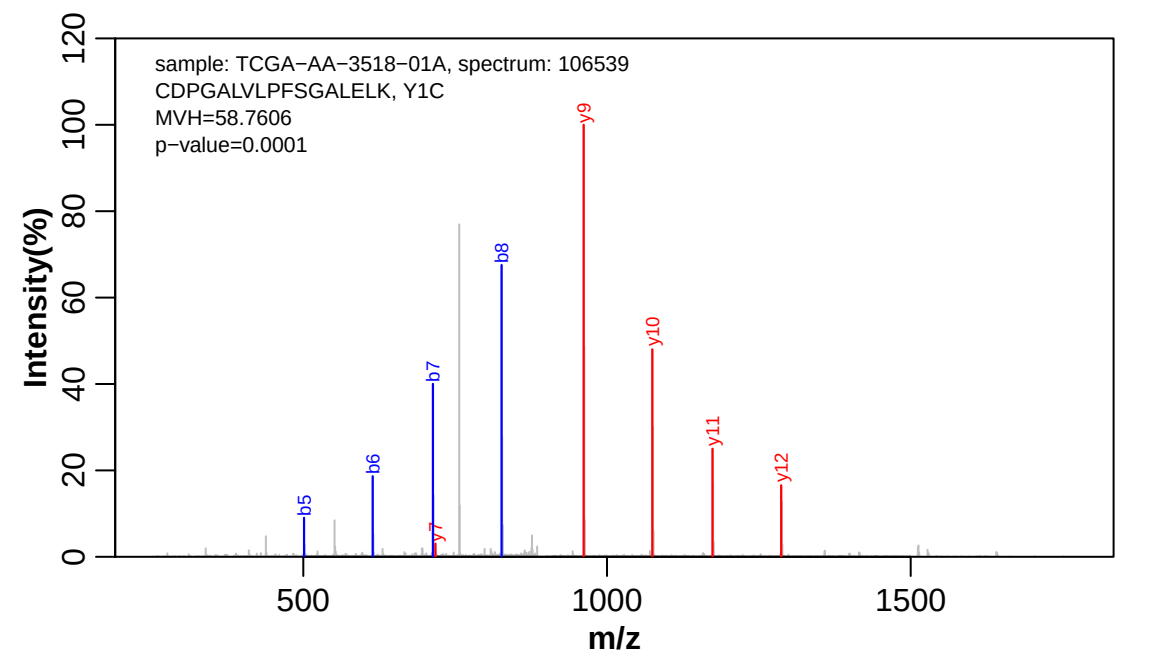

sample: TCGA−AA−3518−01A, spectrum: 14125
ANPQLGAYAPPPHVLGR, I14V
MVH=28.6067
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y8++
y9++
b5
y10++
y12++
y13++
y15++
b9

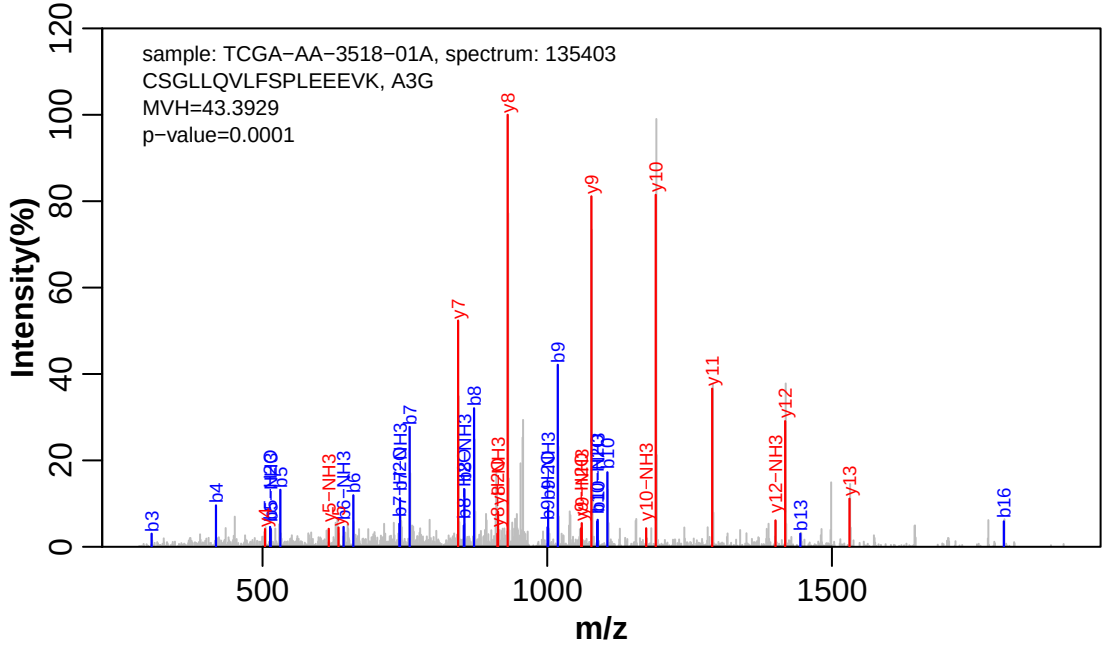

sample: TCGA−AA−3518−01A, spectrum: 142072
ASSSLLLNESEPTTNLQLR, D8N
MVH=49.7273
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b6
y5
b7
y6
y8
y9
y10
b11
y11
y12
y13
b14
b16
b17
b18

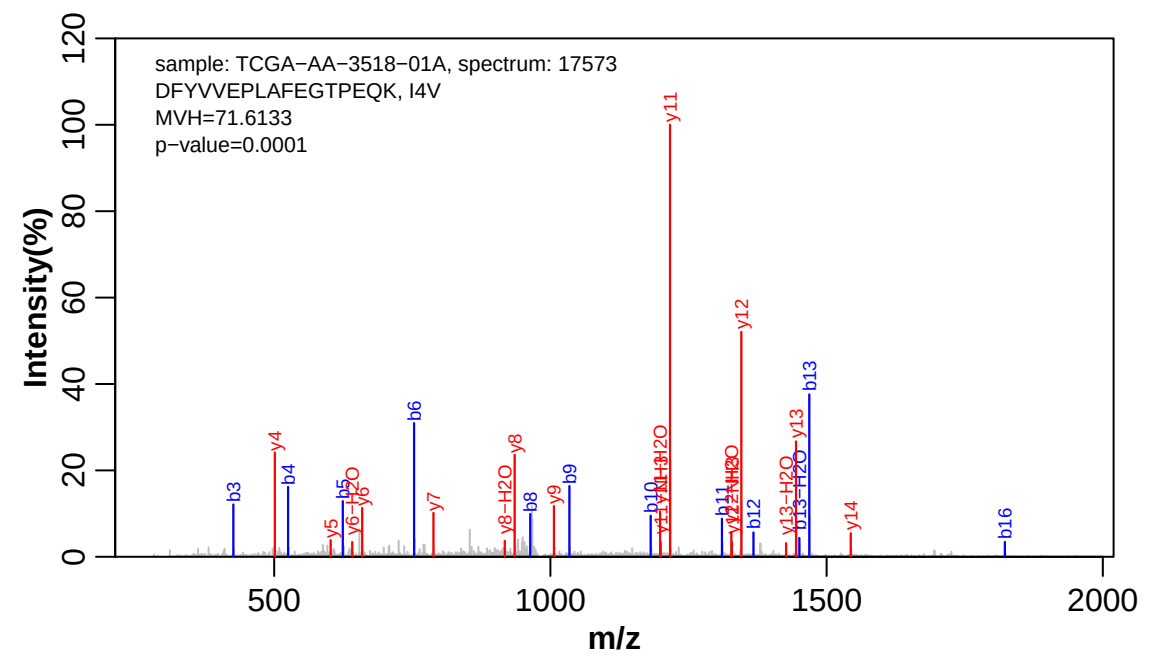

sample: TCGA−AA−3518−01A, spectrum: 118953
AVLTLDKK, E7K
MVH=37.9092
p−value=0.0006
Intensity(%)
m/z
y1−H2O
y1
b2
y2−H2O
y2
b3
b4−H2O
b4
y3
b5−H2O
b5
y4
y5−H2O
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7

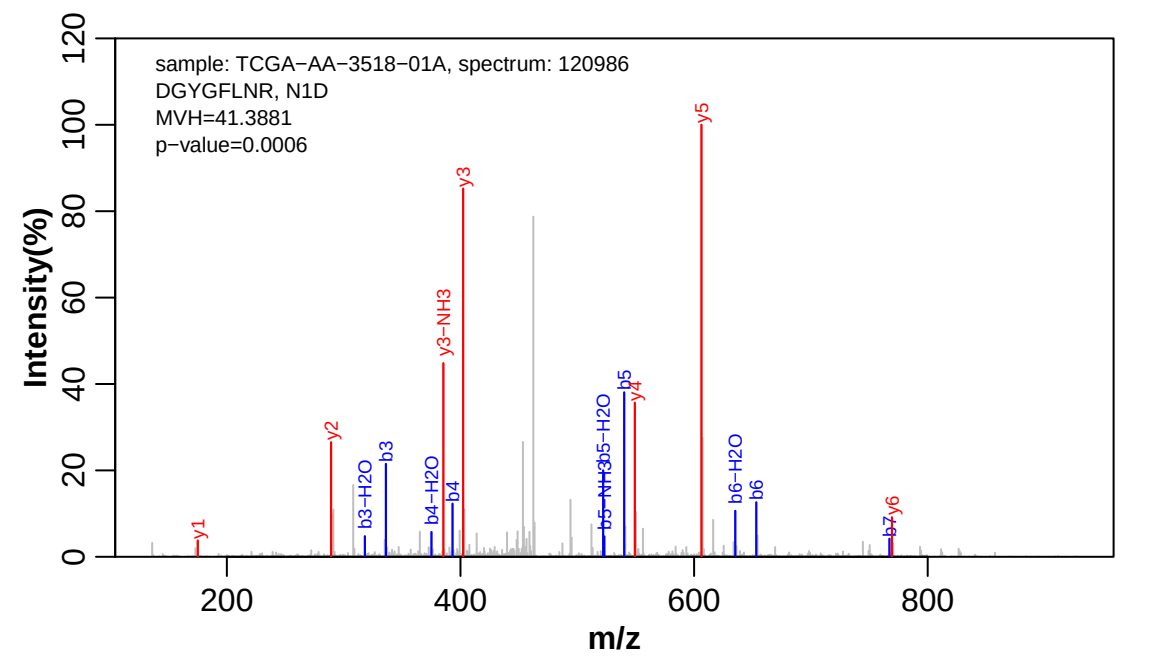

sample: TCGA−AA−3518−01A, spectrum: 17661
AVPPNNSNAAEDDLPTVELQGLVPR, V22L
MVH=30.1962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y5
y11++
y6
b14++
b15++−H2O
y7++−H2O
b21++
b22++
b22++−H2O
b23++
b23++−NH3
y11
b14
y14−H2O
b17

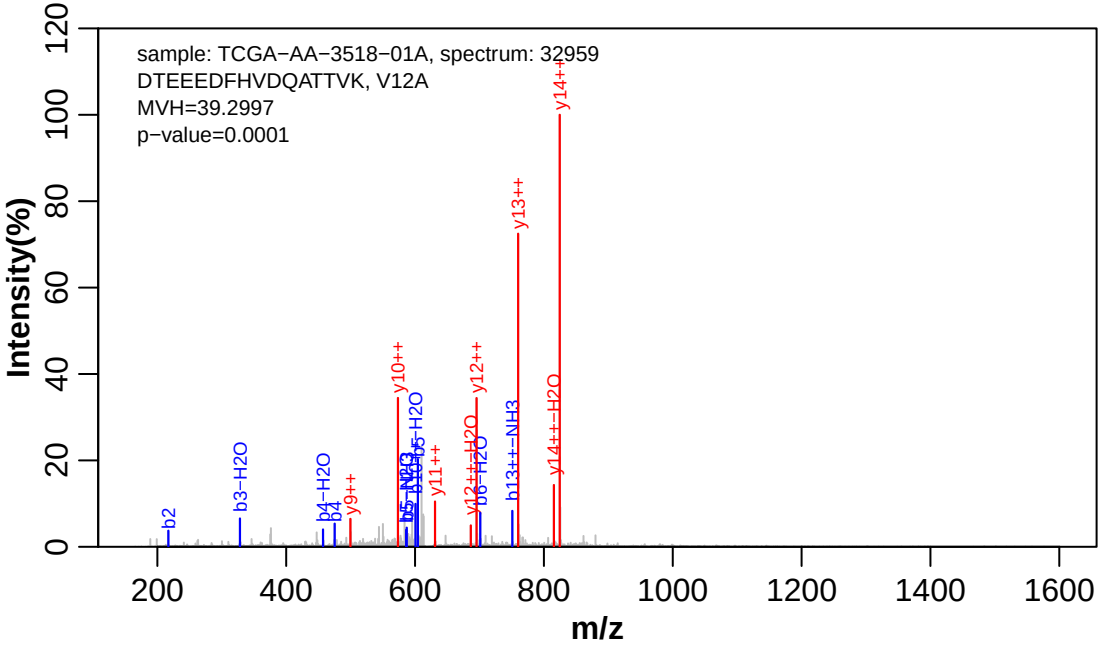

sample: TCGA−AA−3518−01A, spectrum: 105236
AVVMTPVPLFSEQR, K12E
MVH=31.7541
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y4
y5
b7−NH3
b7−H2O
b7
y6−H2O
b8−NH3
y7
b9−NH3
y8
b10
y9
y10
y11

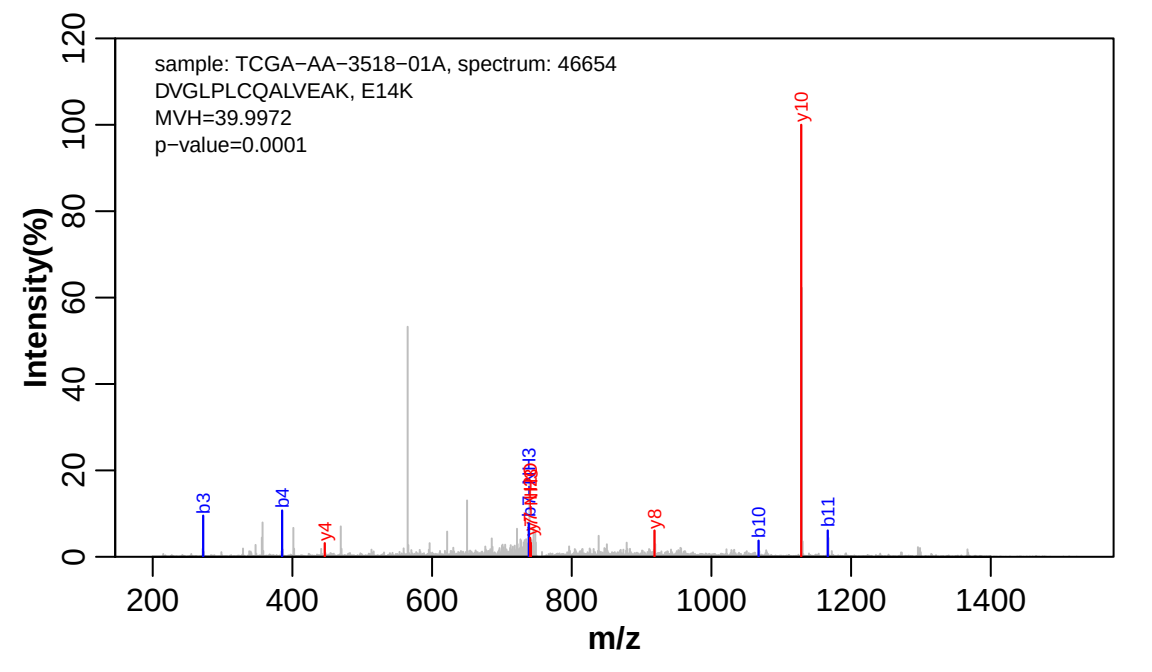

sample: TCGA−AA−3518−01A, spectrum: 106539
CDPGALVLPFSGALELK, Y1C
MVH=58.7606
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
y7
b8
y9
y10
y11
y12

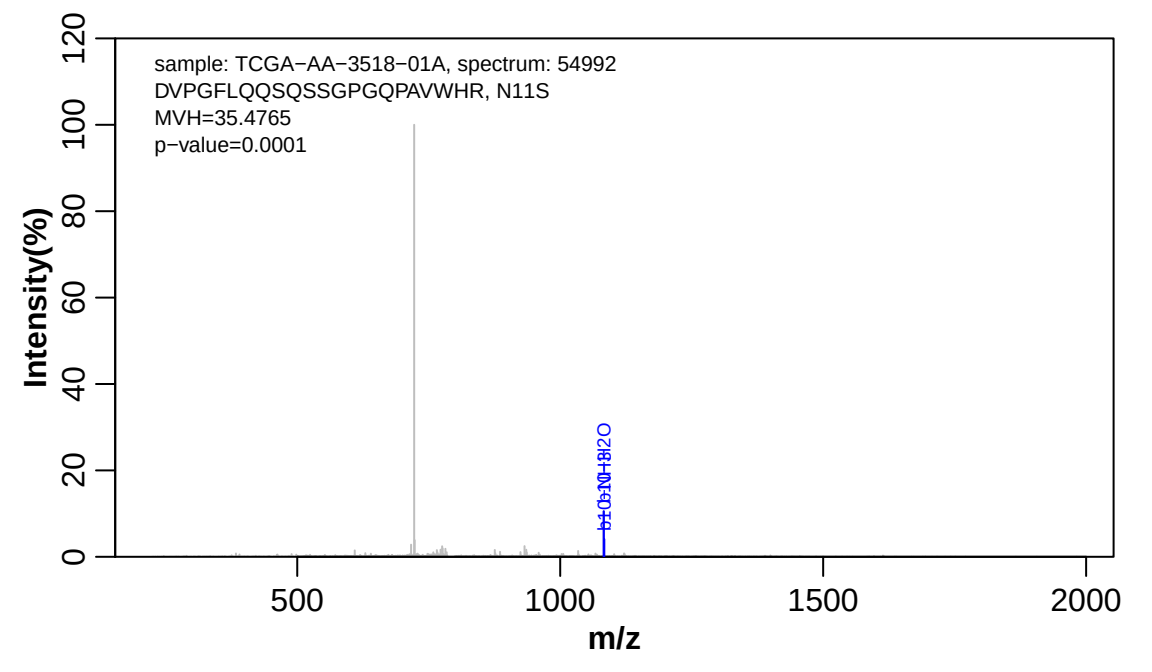

sample: TCGA−AA−3518−01A, spectrum: 135403
CSGLLQVLFSPLEEEVK, A3G
MVH=43.3929
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4
b5
b6
b7
b8
b9
b13
b16
y5−NH3
y6−NH3
y7
y8
y9
y10
y11
y12
y12−NH3
y13
y10−NH3

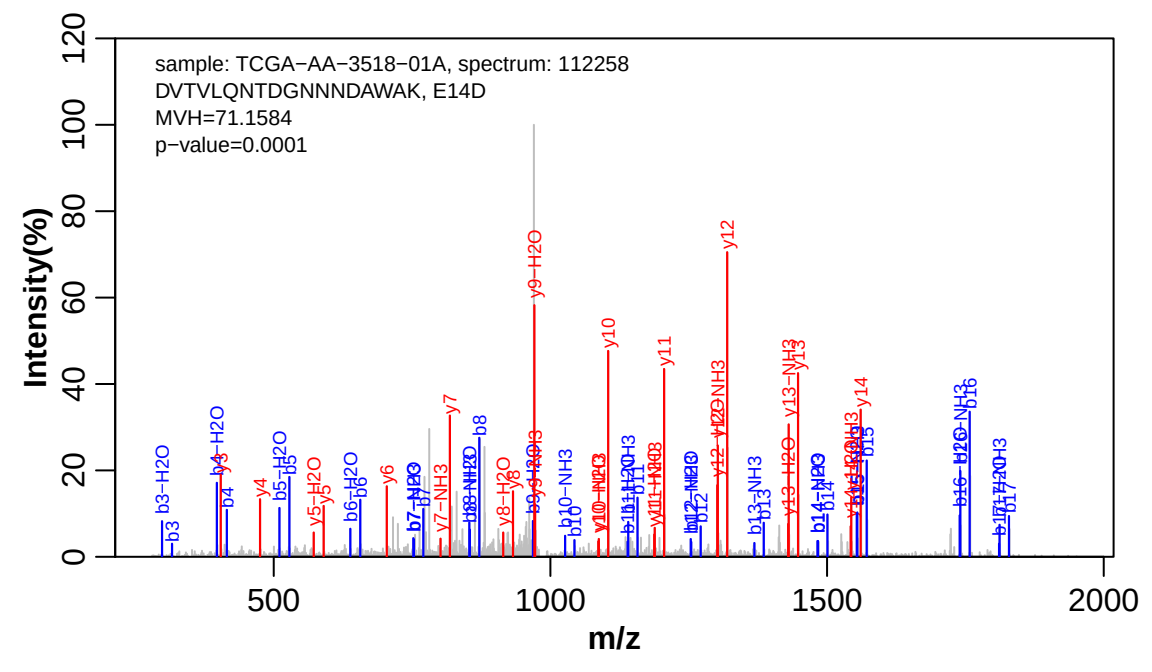

sample: TCGA−AA−3518−01A, spectrum: 17573
DFYVVEPLAFEGTPEQK, I4V
MVH=71.6133
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6−H2O
y6
b6
y7
y8−H2O
y8
b8
y9
b9
y11−NH3−H2O
b10
y11
b11
y12−NH3
y12−H2O
b12
y12
b13
y13−H2O
y13
b13−H2O
y14
b16

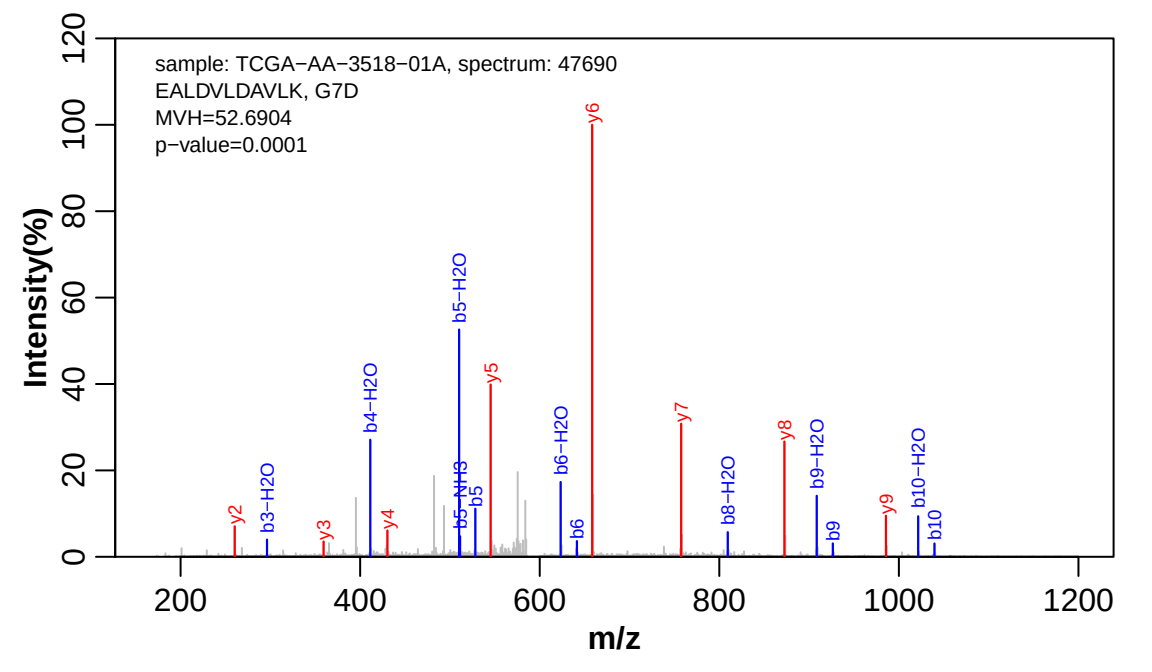

sample: TCGA−AA−3518−01A, spectrum: 120986
DGYGFLNR, N1D
MVH=41.3881
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

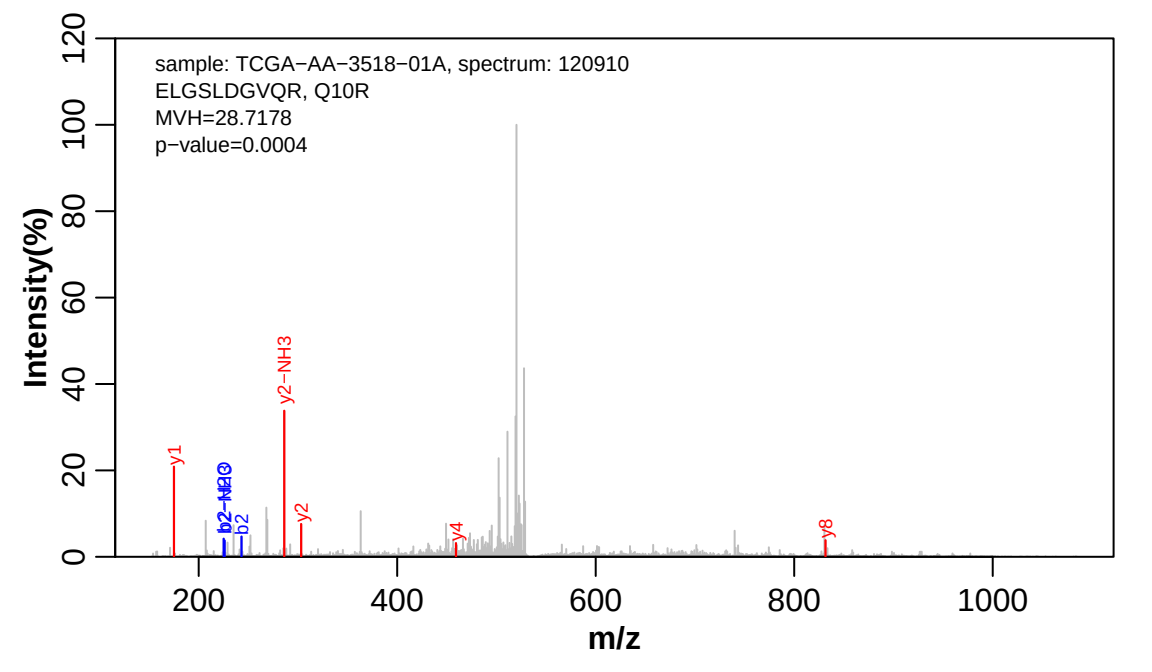

sample: TCGA−AA−3518−01A, spectrum: 32959
DTEEEDFHVDQATTVK, V12A
MVH=39.2997
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b4−H2O
b4
y9++
y10++
y11++
y12++
y12++−H2O
b6−H2O
b13++−NH3
y13++
y14++−H2O
y14++

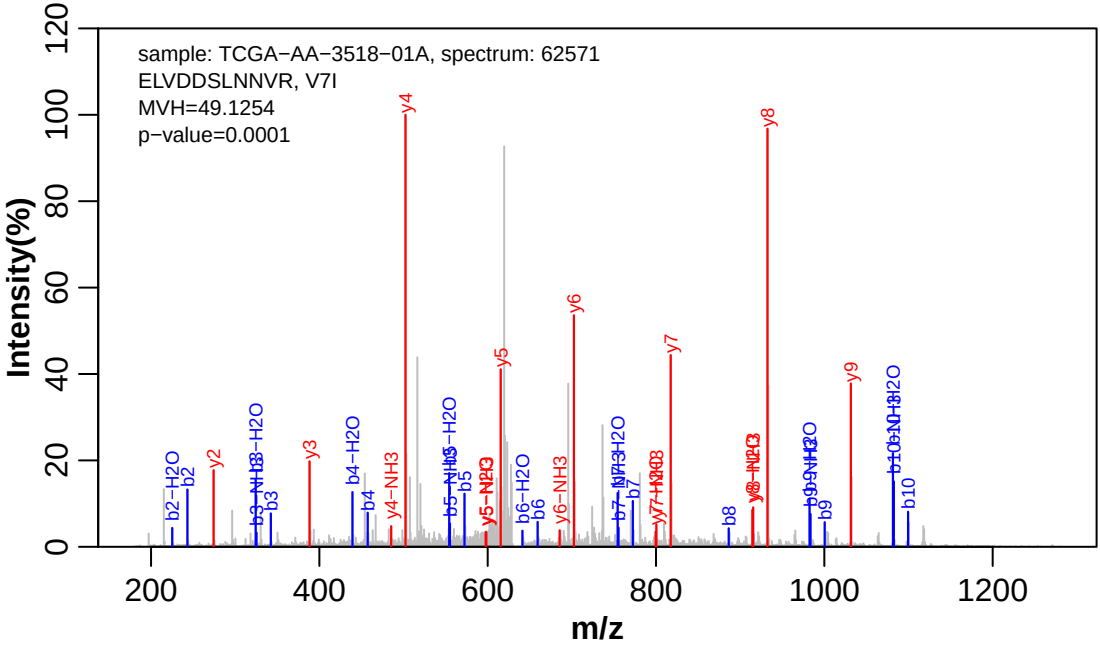

sample: TCGA−AA−3518−01A, spectrum: 46654
DVGLPLCQALVEAK, E14K
MVH=39.9972
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b3
b4
y4
y10
y8
b10
b11

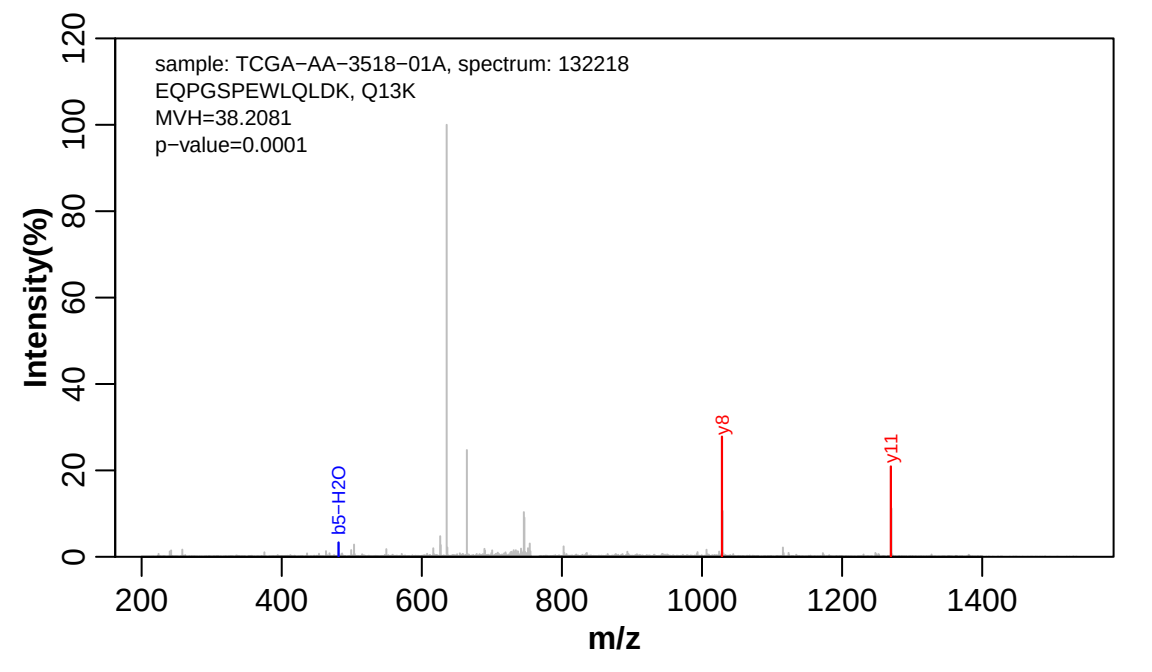

sample: TCGA−AA−3518−01A, spectrum: 54992
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=35.4765
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

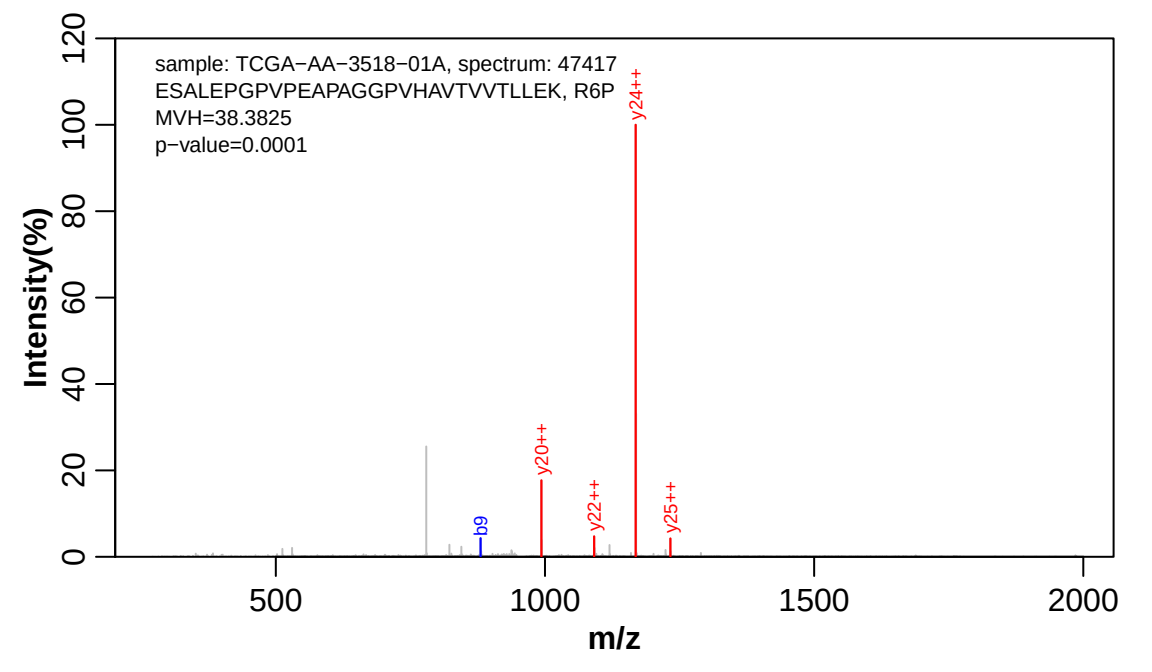

sample: TCGA−AA−3518−01A, spectrum: 112258
DVTVLQNTDGNNNDAWAK, E14D
MVH=71.1584
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b3
b4−H2O
y3
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
y6
y7
y7−NH3
b8
b8−NH3
y8−H2O
y8
b9−H2O
y9−H2O
b10−NH3
b10
y10
y10−NH3
b11−H2O
b11
y11
y11−NH3
y12
y12−NH3
b12
b13−NH3
b13
y13−H2O
y13
y13−NH3
b14
y14
b15
b16−H2O
b16
b16−NH3
b17−H2O
b17

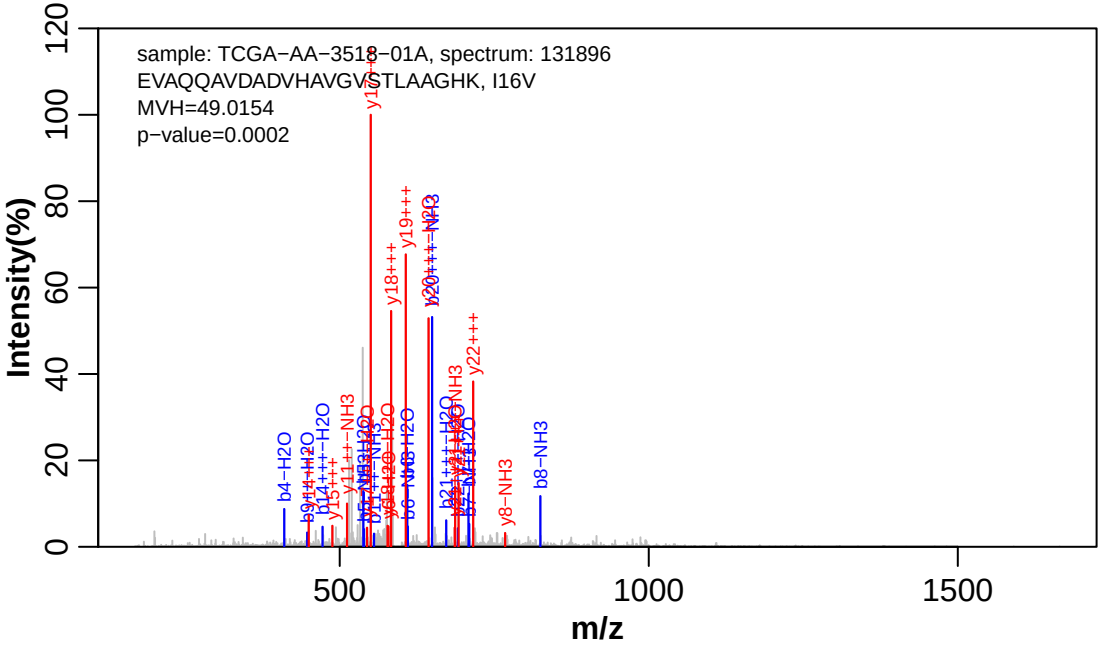

sample: TCGA−AA−3518−01A, spectrum: 47690
EALDVLDAVLK, G7D
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

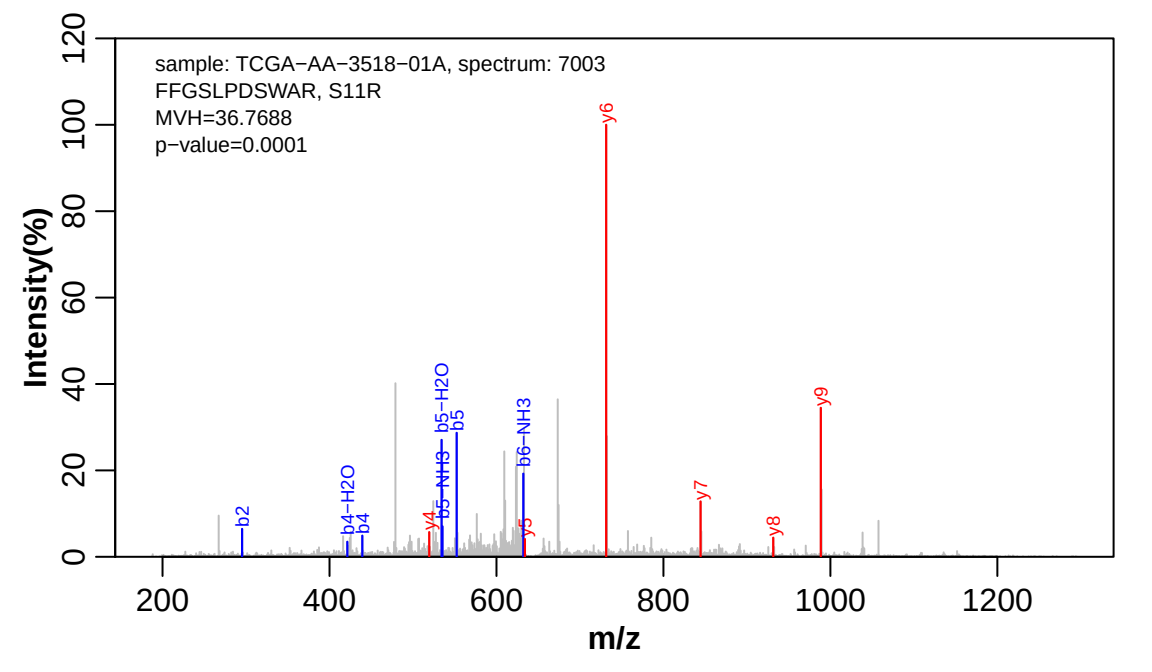

sample: TCGA−AA−3518−01A, spectrum: 120910
ELGSLDGVQR, Q10R
MVH=28.7178
p−value=0.0004
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
y2−NH3
y2
y4
y8
b2

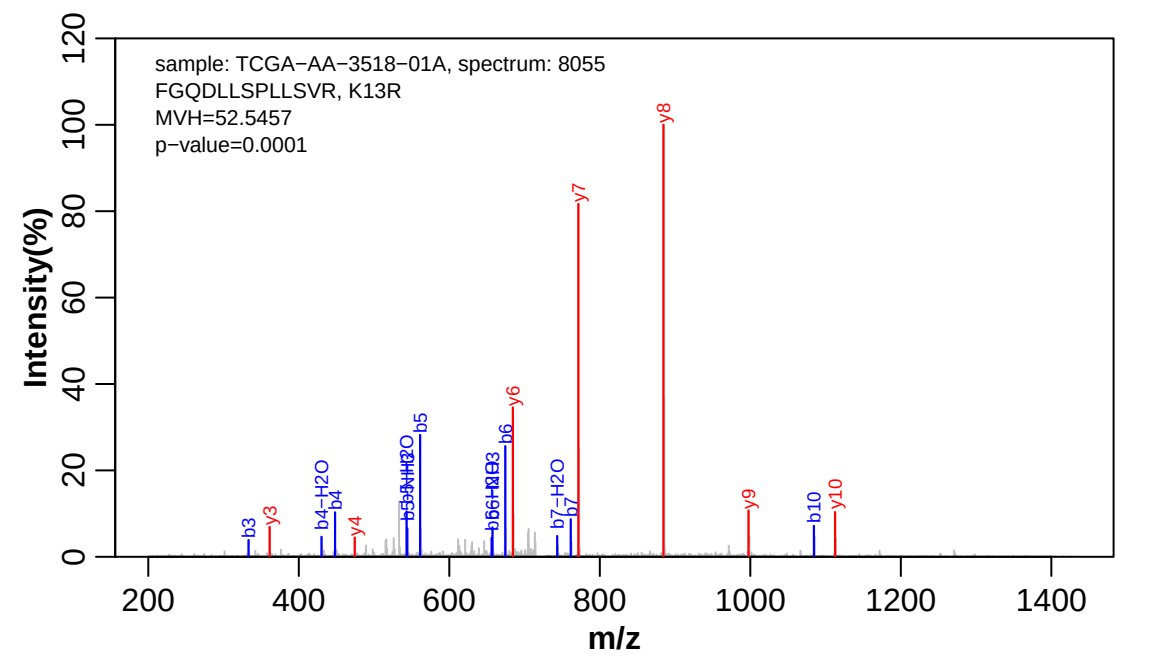

sample: TCGA−AA−3518−01A, spectrum: 62571
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y4
y8
y6
y5
y7
y9
y2
y3
b2−H2O
b2
b4−H2O
b4
y4−NH3
b6−H2O
b6
y6−NH3
b8
b10
b9
b10−NH3−H2O

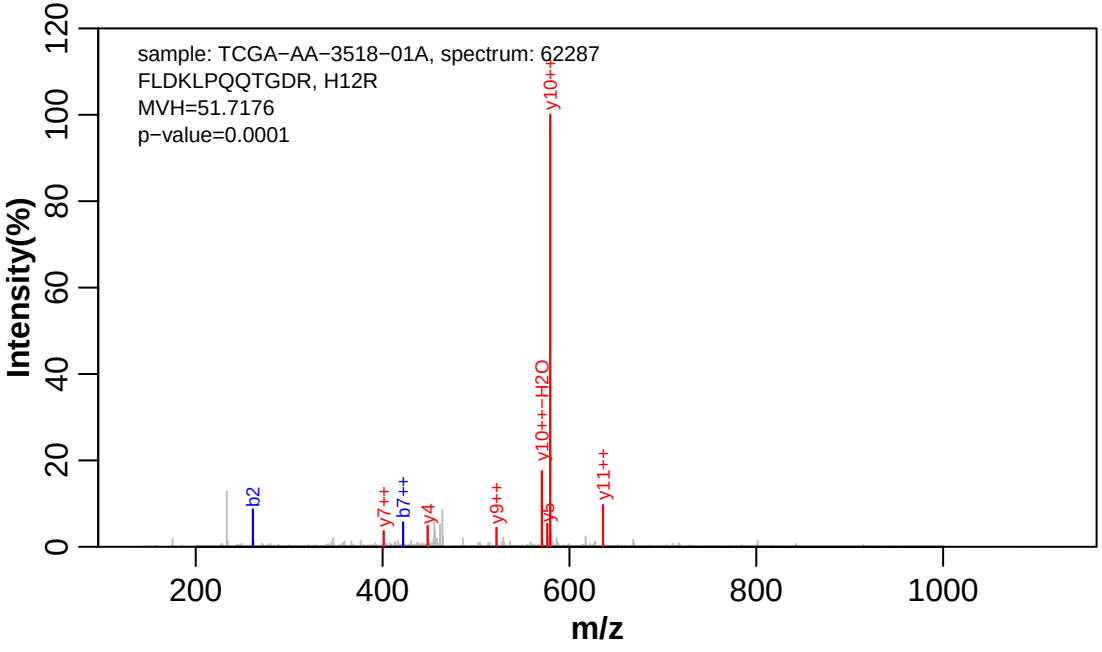

sample: TCGA−AA−3518−01A, spectrum: 132218
EQPGSPEWLQLDK, Q13K
MVH=38.2081
p−value=0.0001
b5−H2O
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

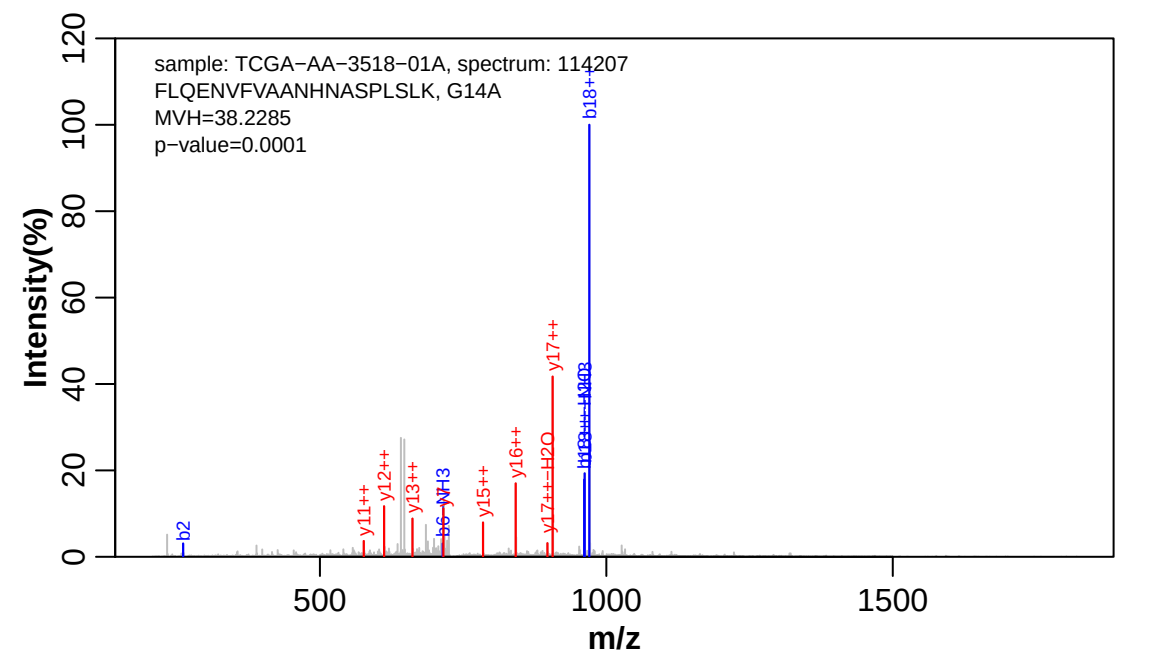

sample: TCGA−AA−3518−01A, spectrum: 47417
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=38.3825
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

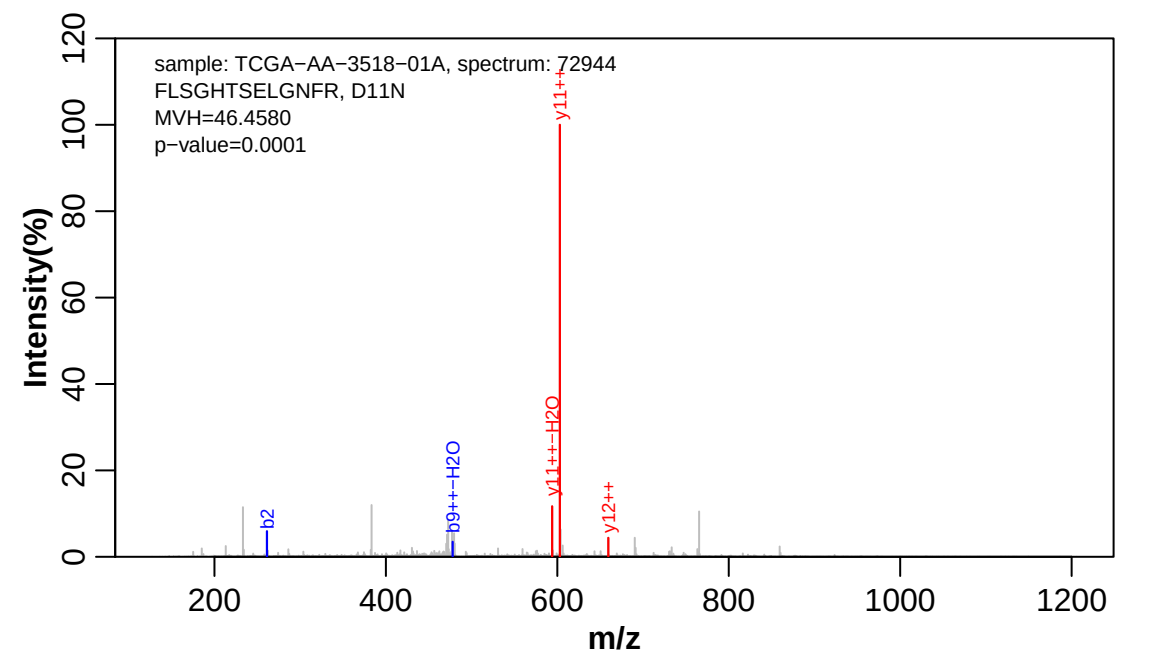

sample: TCGA−AA−3518−01A, spectrum: 131896
EVAQQAVDADVHAVGVSTLAAGHK, I16V
MVH=49.0154
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16+++
y19+++
y18+++
y20+++−NH3
y22+++
b4−H2O
b8−NH3
y8−NH3

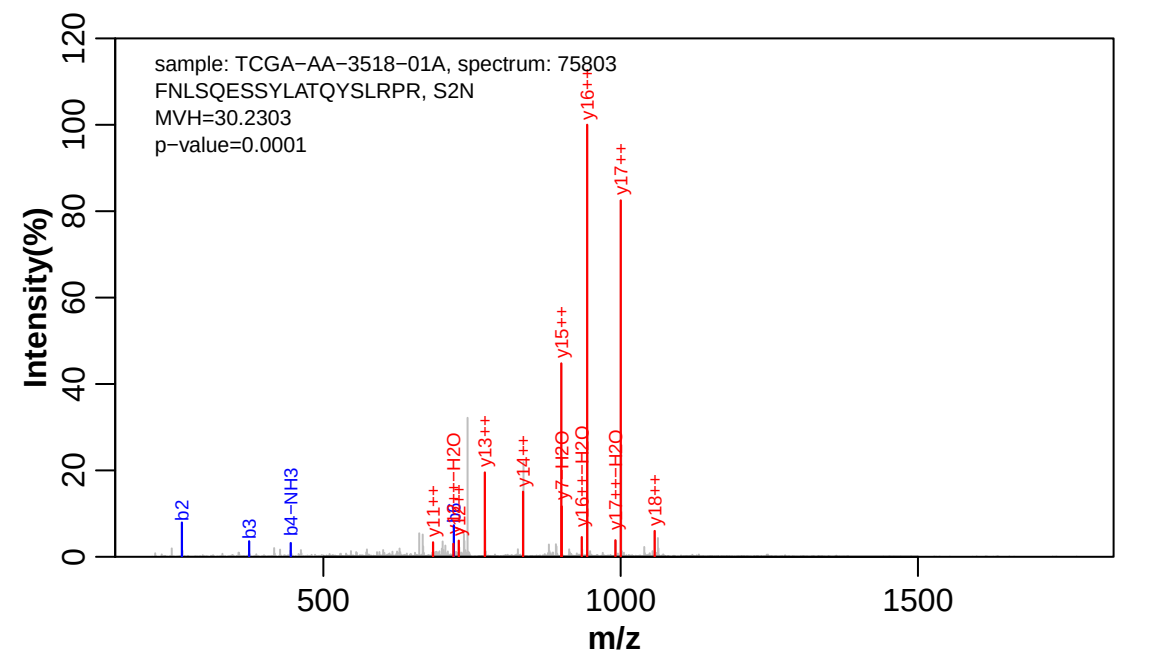

sample: TCGA−AA−3518−01A, spectrum: 7003
FFGSLPDSWAR, S11R
MVH=36.7688
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
y6
y7
y8
y9

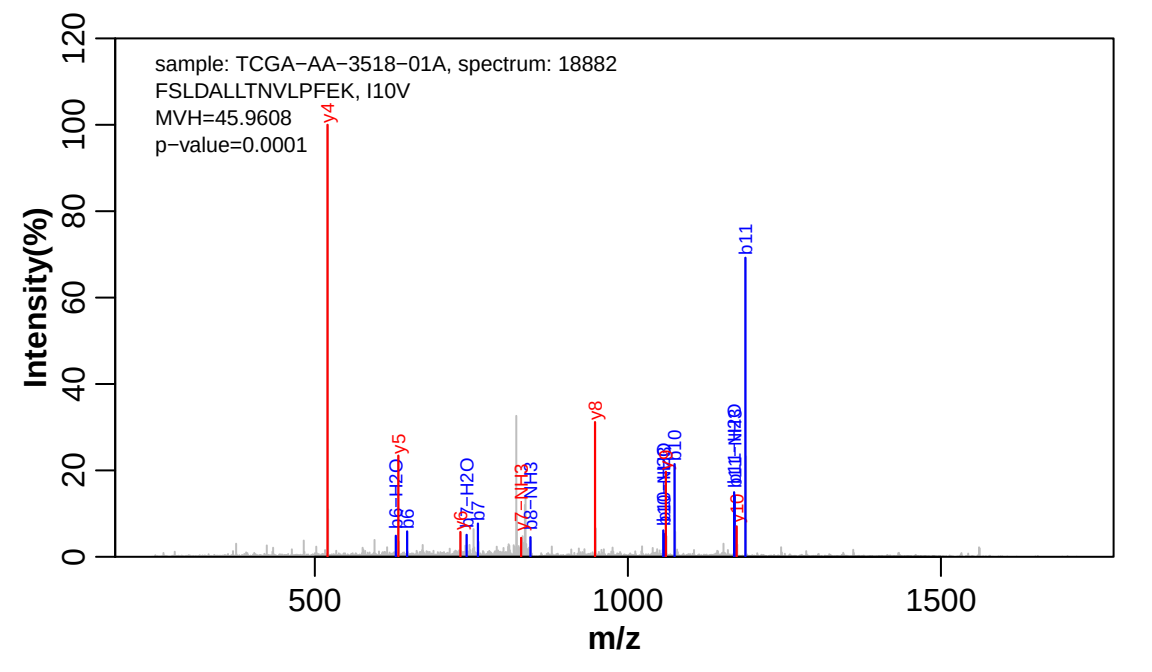

sample: TCGA−AA−3518−01A, spectrum: 8055
FGQDLLSPLLSVR, K13R
MVH=52.5457
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

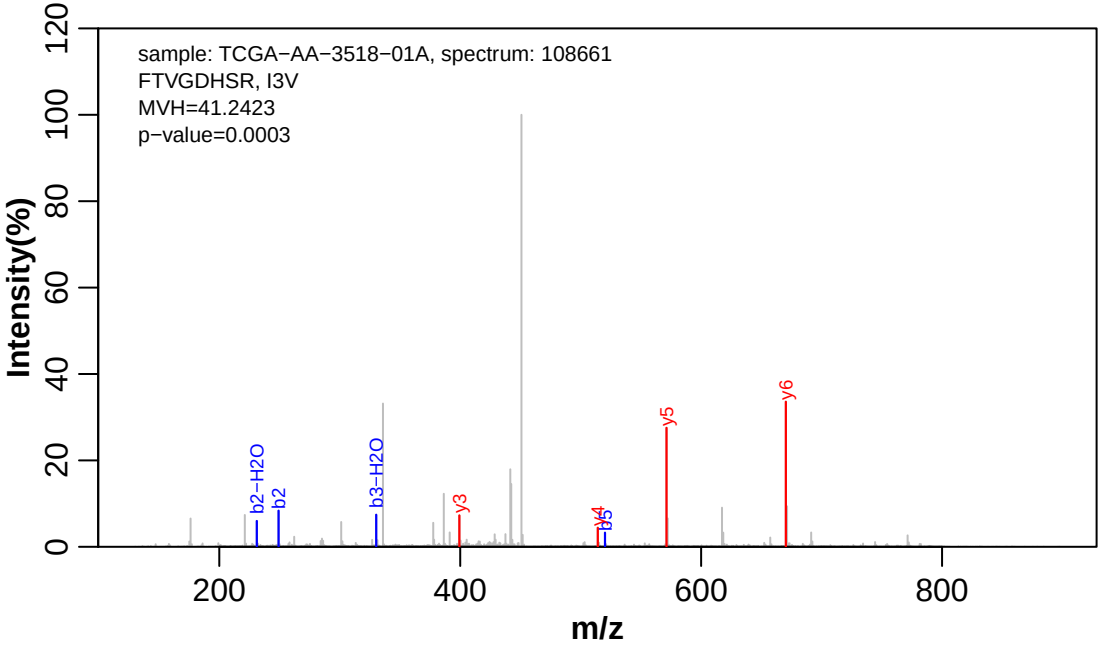

sample: TCGA−AA−3518−01A, spectrum: 62287
FLDKLPQQTGDR, H12R
MVH=51.7176
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y8
y10++
y11++

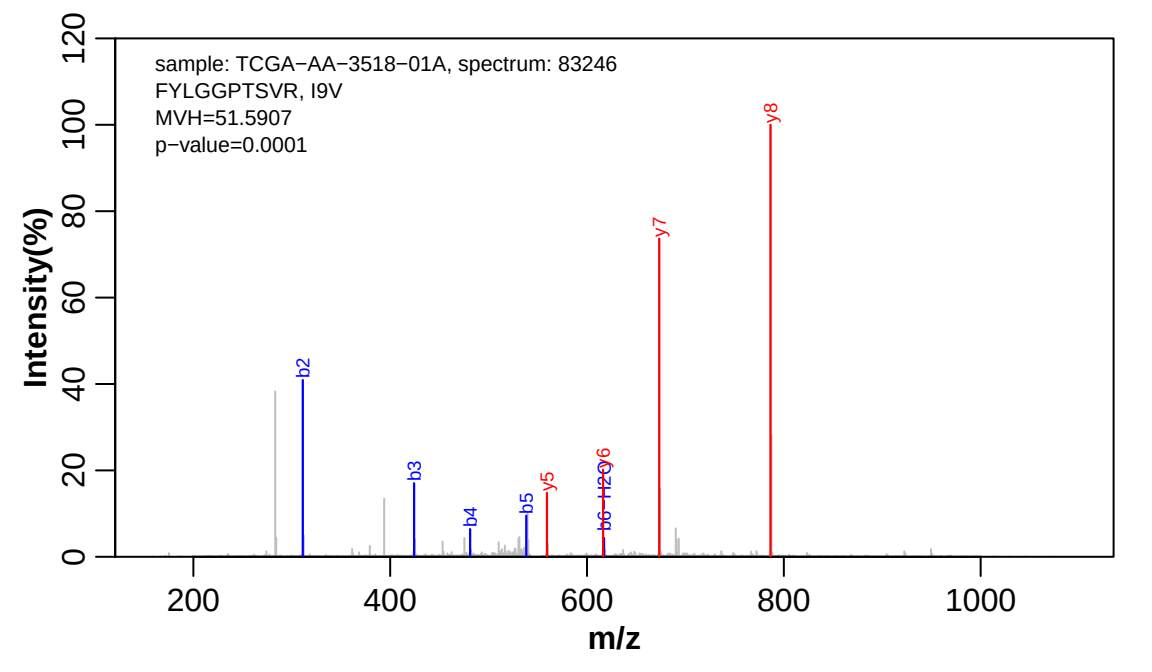

sample: TCGA−AA−3518−01A, spectrum: 114207
FLQENVFVAANHNASPLSLK, G14A
MVH=38.2285
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y11++
y12++
y13++
b6−NH3
y15++
y16++
y17++−H2O
y17++
b18++
b18++−H2O
b18++−NH3

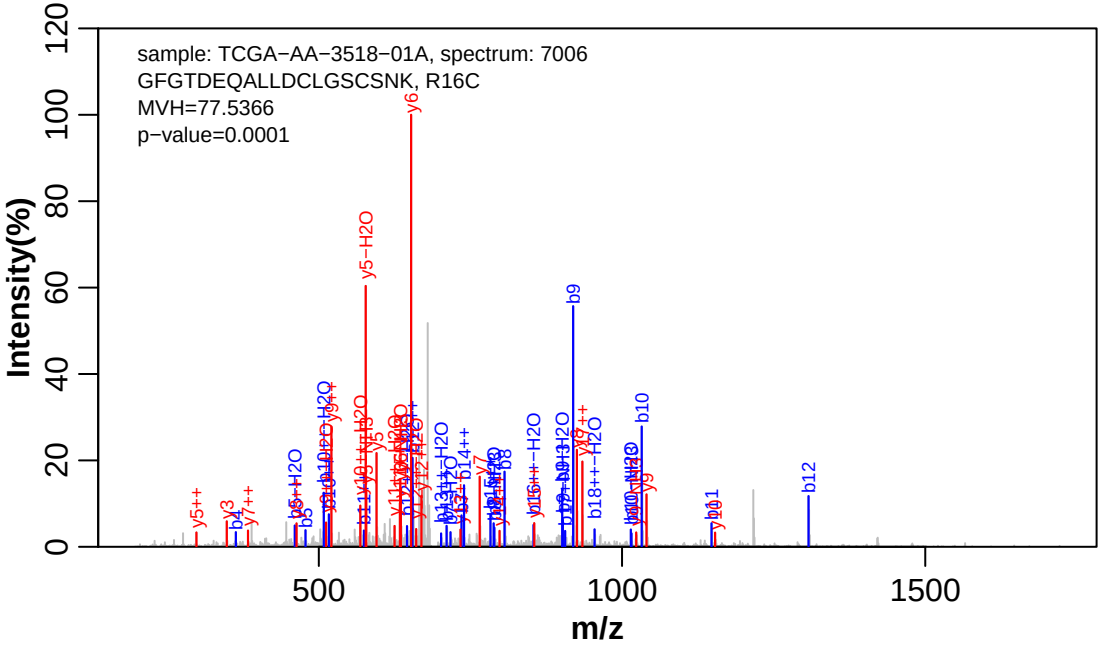

sample: TCGA−AA−3518−01A, spectrum: 72944
FLSGHTSELGNFR, D11N
MVH=46.4580
p−value=0.0001
y11++
y11++−H2O
b9++−H2O
b2
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

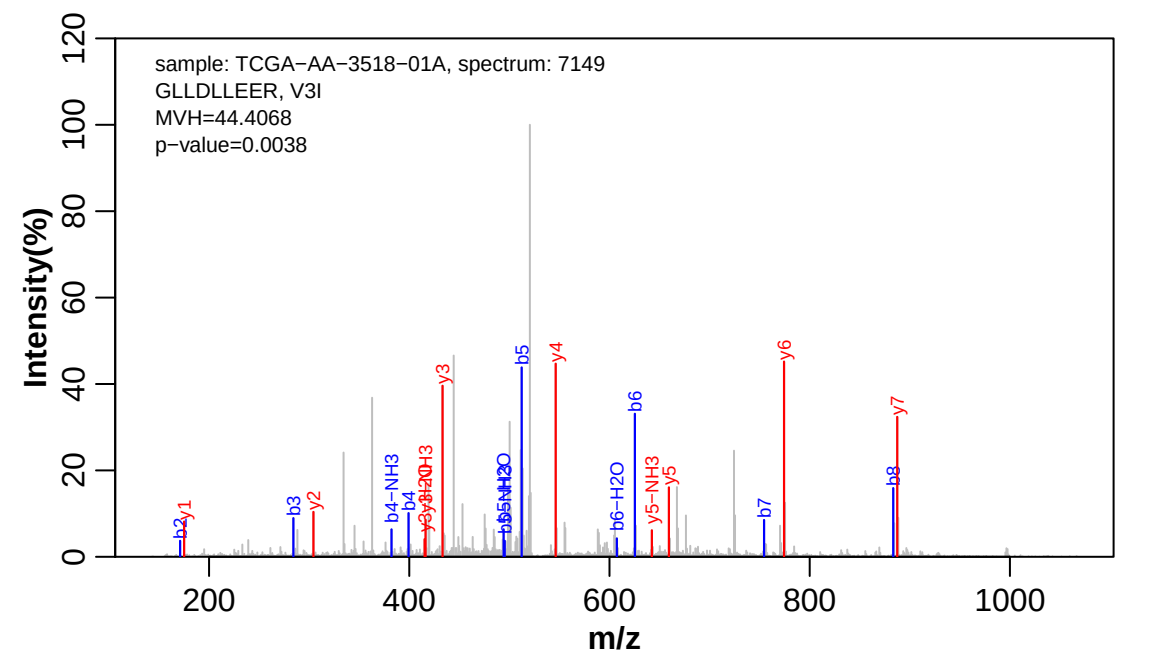

sample: TCGA−AA−3518−01A, spectrum: 75803
FNLSQESSYLATQYSLRPR, S2N
MVH=30.2303
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4−NH3
y11++
y12++−H2O
y13++
y14++
y15++
y7−H2O
y16++−H2O
y16++
y17++
y17++−H2O
y18++

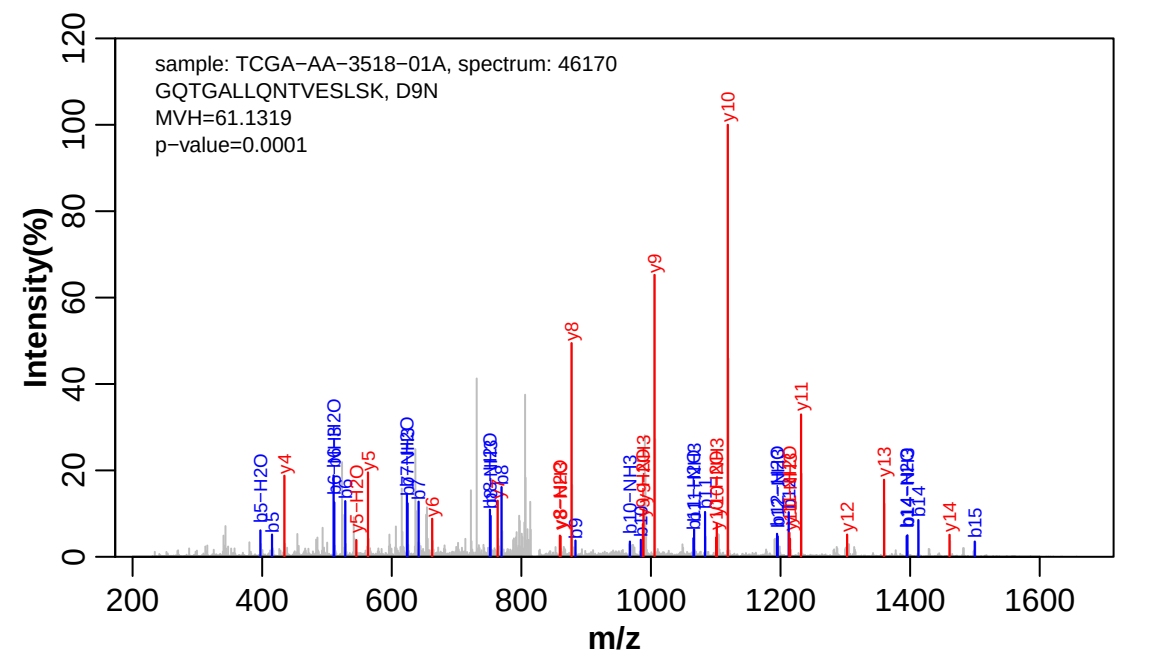

sample: TCGA−AA−3518−01A, spectrum: 18882
FSLDALLTNVLPFEK, I10V
MVH=45.9608
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
b6−H2O
b6
y6
y6−H2O
b7
y7−NH3
b8−NH3
y8
b10
b11
b11−NH3
y10

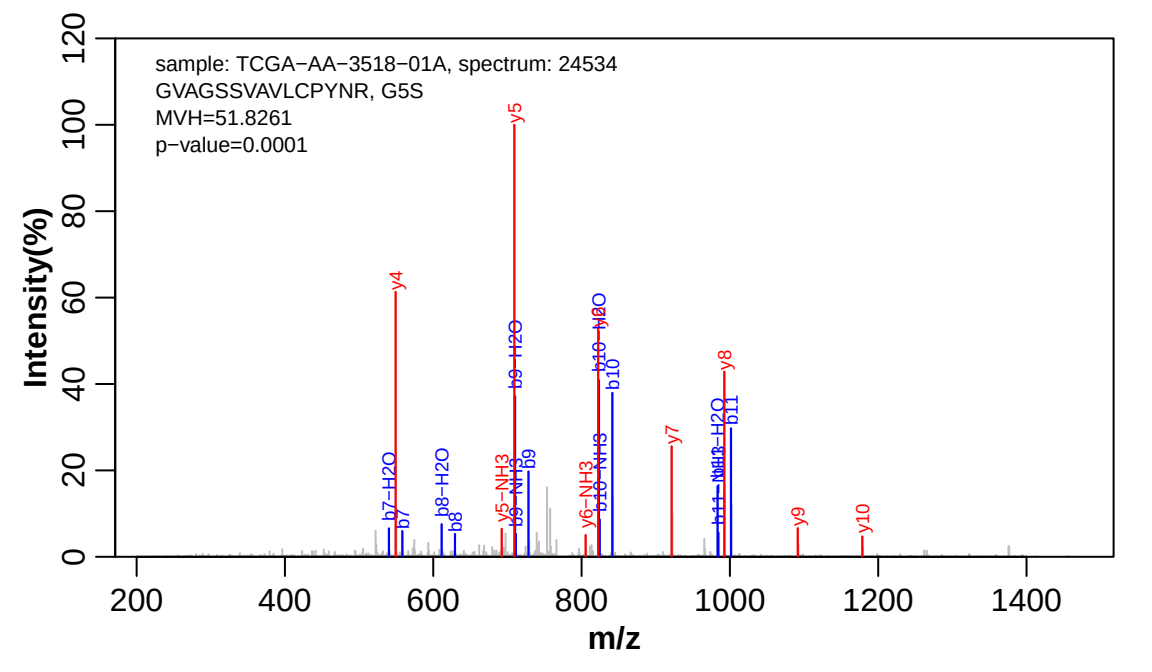

sample: TCGA−AA−3518−01A, spectrum: 108661
FTVGDHSR, I3V
MVH=41.2423
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
y4
b5
y5
y6

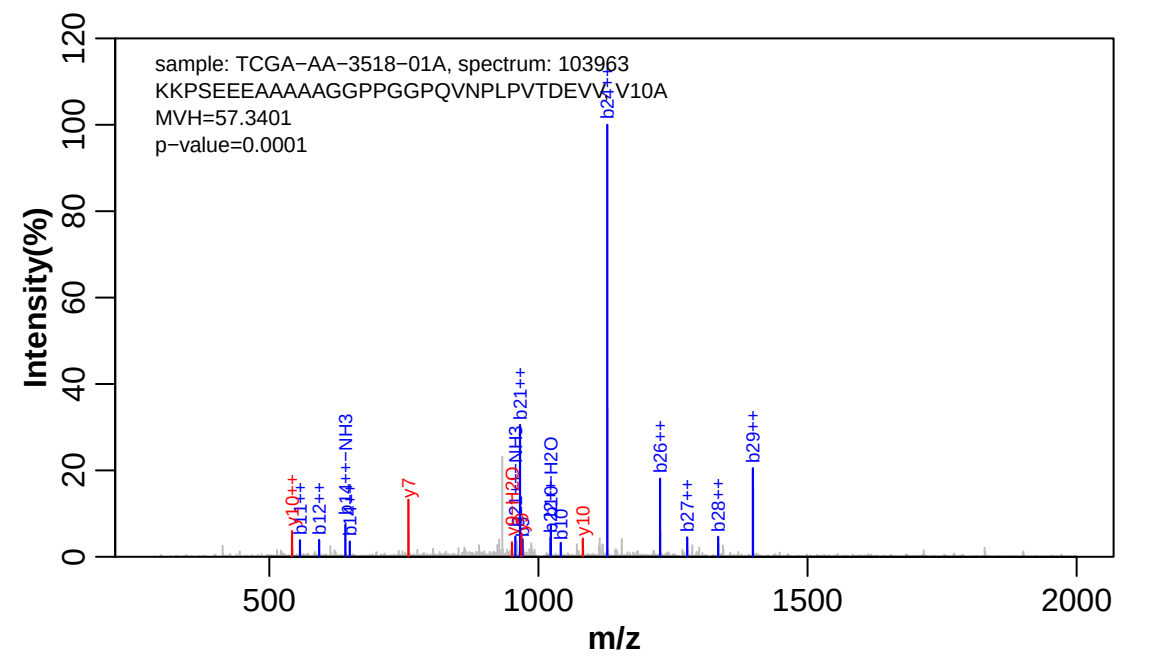

sample: TCGA−AA−3518−01A, spectrum: 83246
FYLGGPTSVR, I9V
MVH=51.5907
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

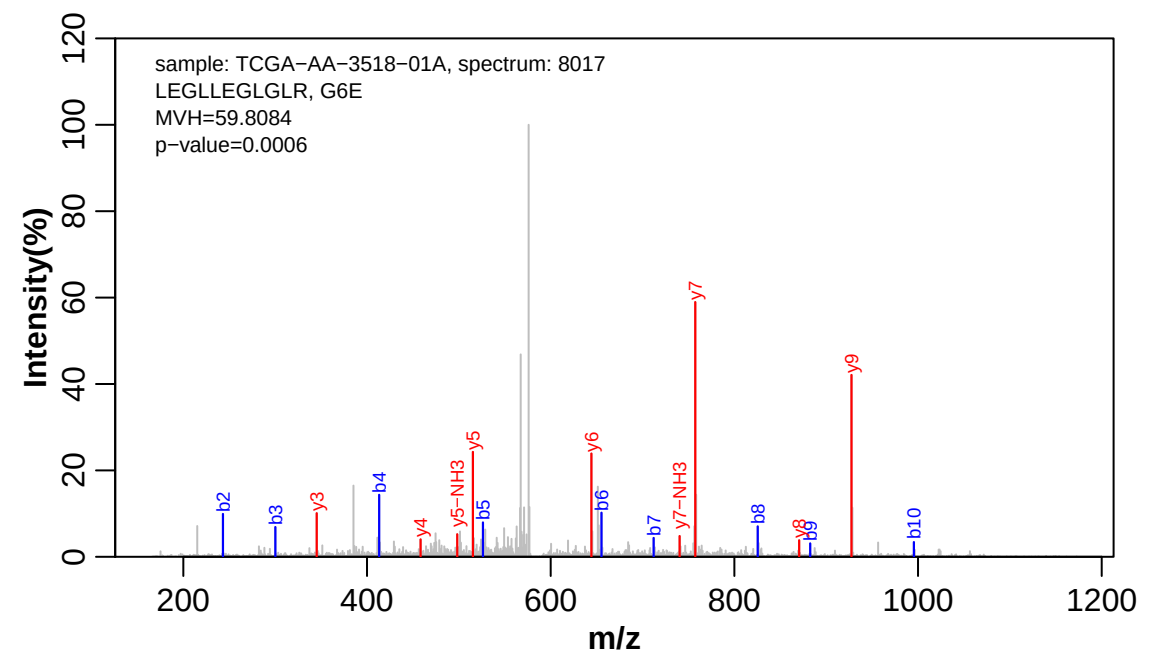

sample: TCGA−AA−3518−01A, spectrum: 7006
GFGTDEQALLDCLGSCSNK, R16C
MVH=77.5366
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5
b9
b10
b12
y5++
y3
b4
y7++
b5−H2O
b5
y9++
b18++−H2O
y9
b11
y10
b14++
y7
y15++−H2O
y11
y12
b13
b15
b16
b17
b18
y16
y17
y18
y19
y20
y21
y22
y23
y24
y25
y26
y27
y28
y29
y30
y31
y32
y33
y34
y35
y36
y37
y38
y39
y40
y41
y42
y43
y44
y45
y46
y47
y48
y49
y50
y51
y52
y53
y54
y55

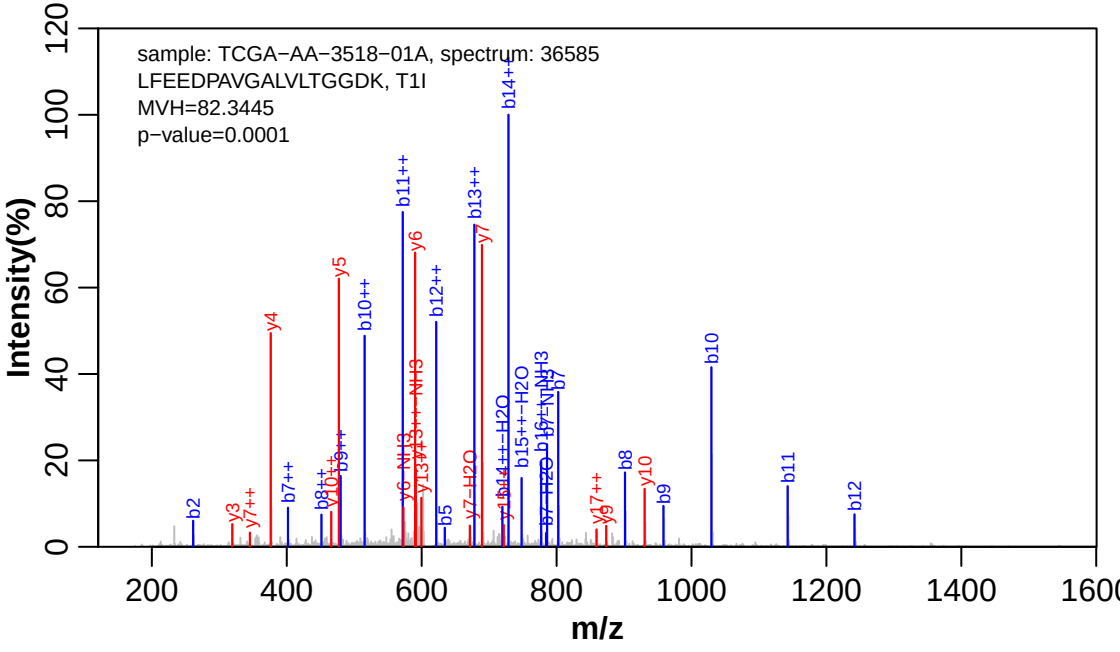

sample: TCGA−AA−3518−01A, spectrum: 7149
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
b3
y2
b4−NH3
b4
y3−NH3
y3
b5
y4
b6
b6−H2O
y5−NH3
y5
y6
b7
b8
y7

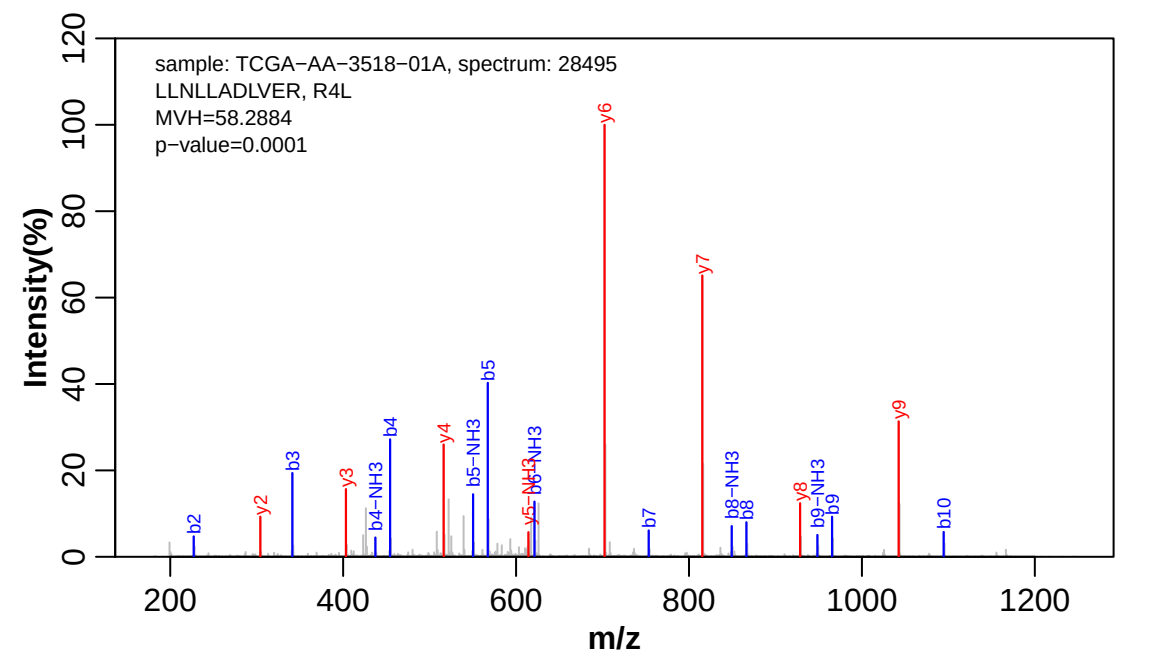

sample: TCGA−AA−3518−01A, spectrum: 46170
GQTGALLQNTVESLSK, D9N
MVH=61.1319
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
b15
y4
y5
y6
b5−H2O
b5
y5−H2O
b6−H2O
b6
b7−NH3
b7−H2O
b7
b8−NH3
b8
y8−NH3
b9
b10−NH3
b11−H2O
b11
b12−NH3
b12
b14−NH3
b14

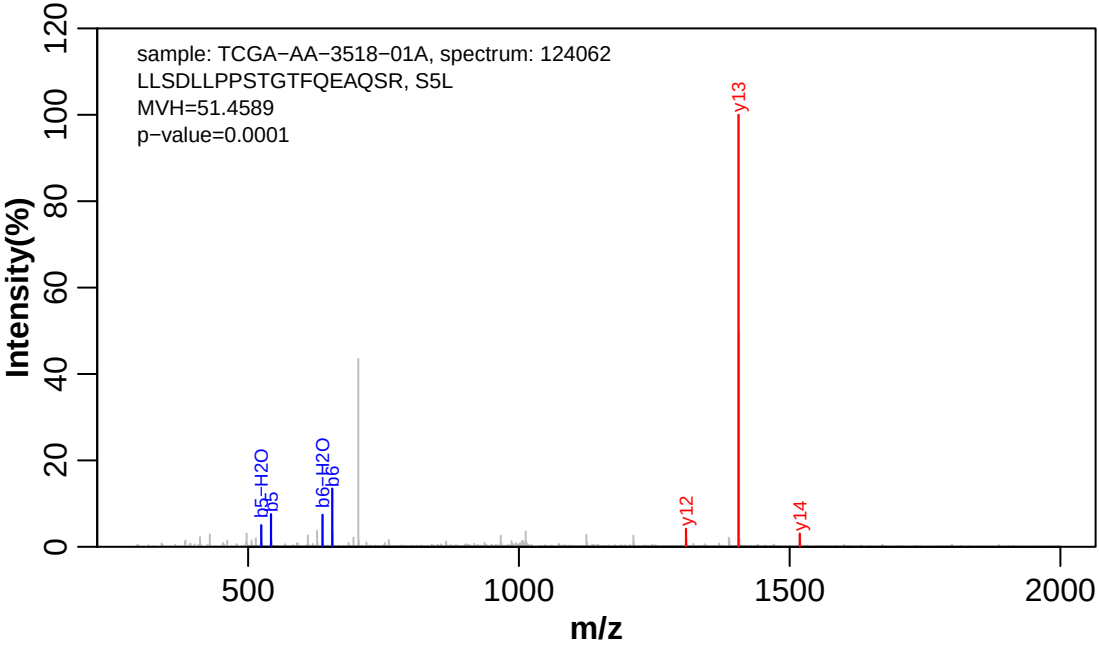

sample: TCGA−AA−3518−01A, spectrum: 24534
GVAGSSVAVLCPYNR, G5S
MVH=51.8261
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
b9−H2O
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11−H2O
b11
y9
y10

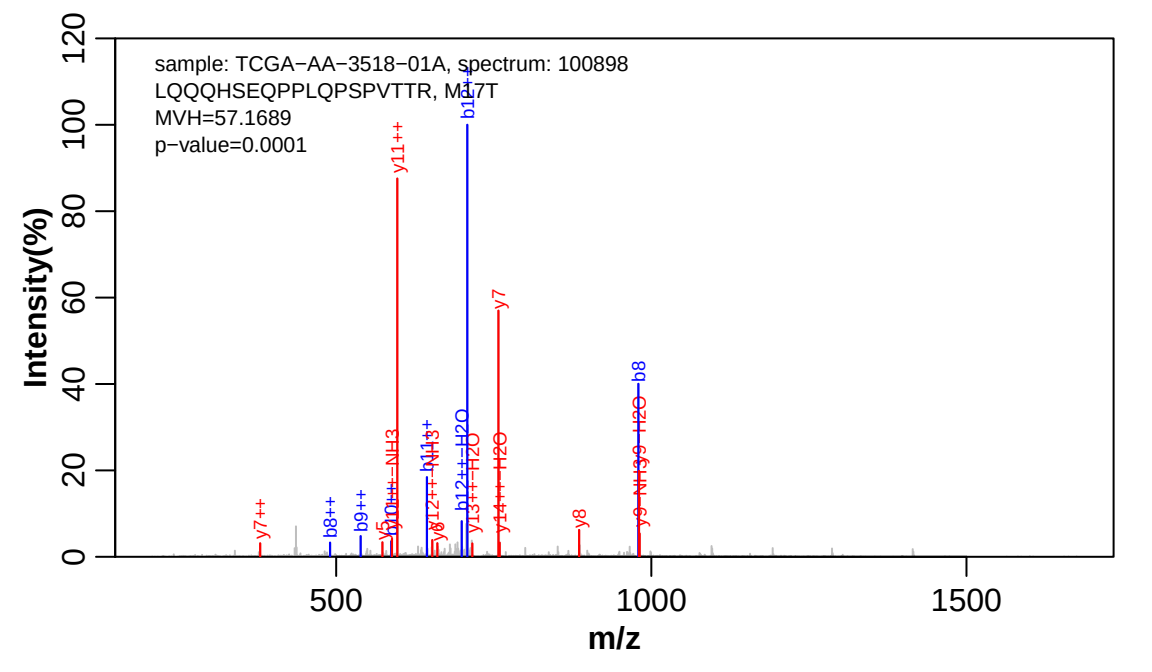

sample: TCGA−AA−3518−01A, spectrum: 103963
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=57.3401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−NH3
b26++
b29++
b27++
b28++
y7
y10++
b11++
b12++
b14++−NH3
y10
b10++−H2O

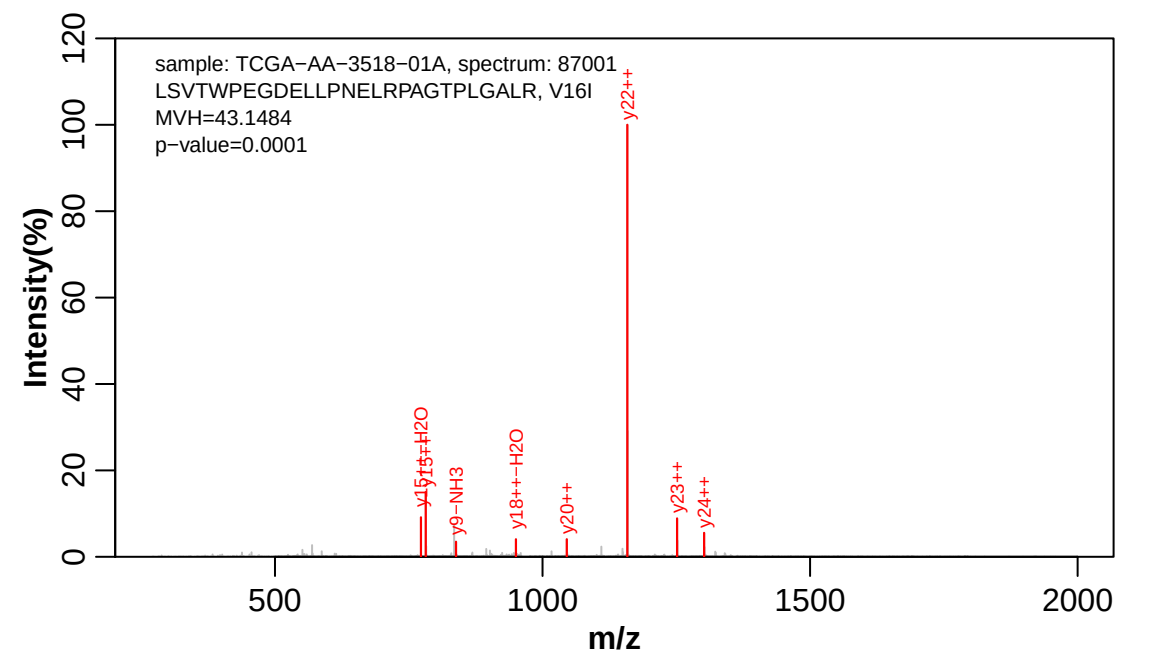

sample: TCGA−AA−3518−01A, spectrum: 8017
LEGLLEGLGLR, G6E
MVH=59.8084
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
y5−NH3
y5
b5
y6
b6
b7
y7−NH3
y7
b8
y8
b9
y9
b10

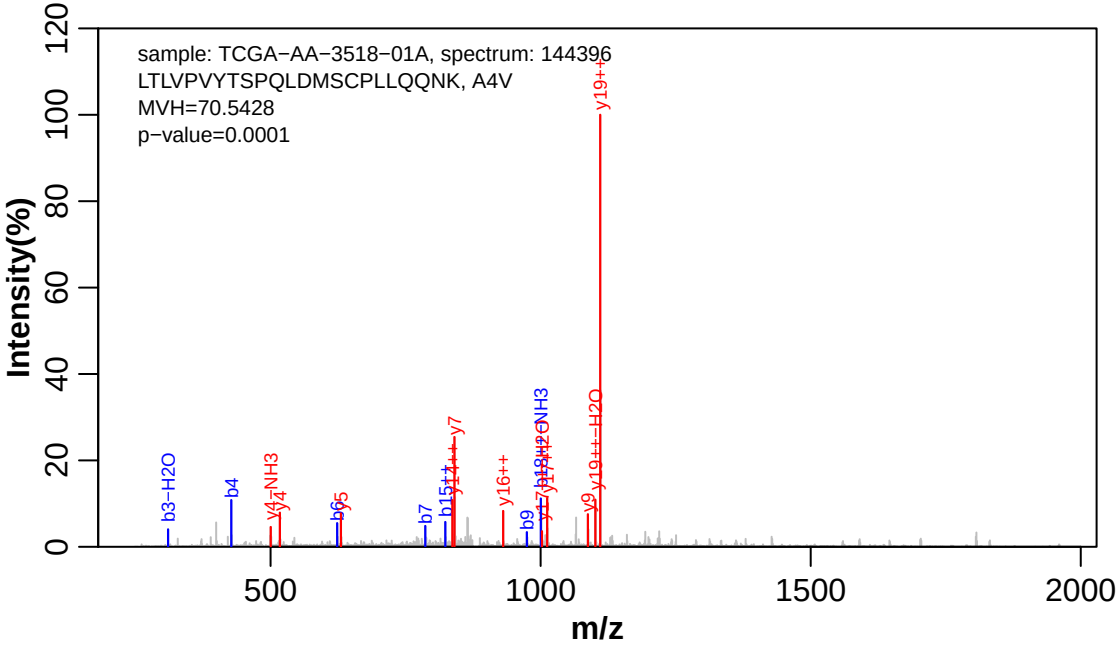

sample: TCGA−AA−3518−01A, spectrum: 36585
LFEEDPAVGALVLTGGDK, T1I
MVH=82.3445
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
y7++
y4
b7++
b8++
y10++
y5
b9++
b10++
y6
b11++
y6−NH3
y13++−NH3
b12++
b5
y7−H2O
y14++−H2O
b15++−H2O
b16++−NH3
b7
b7−H2O
b14++
y17++
y9
b8
y10
b9
b10
b11
b12
b13++
y7
b14++

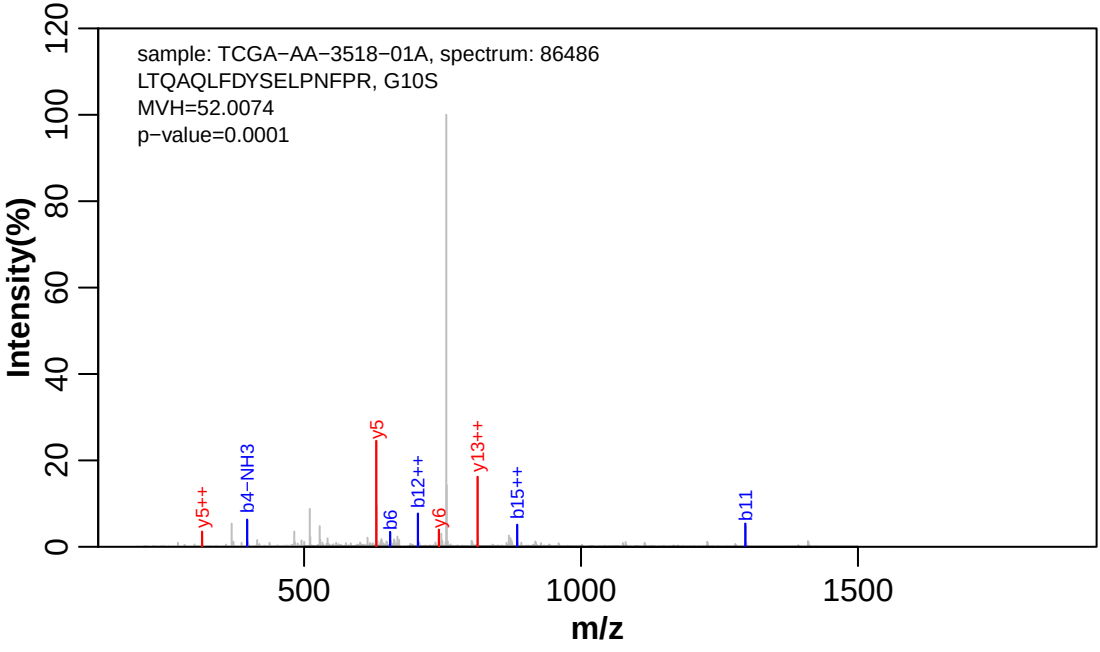

sample: TCGA−AA−3518−01A, spectrum: 28495
LLNLLADLVER, R4L
MVH=58.2884
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

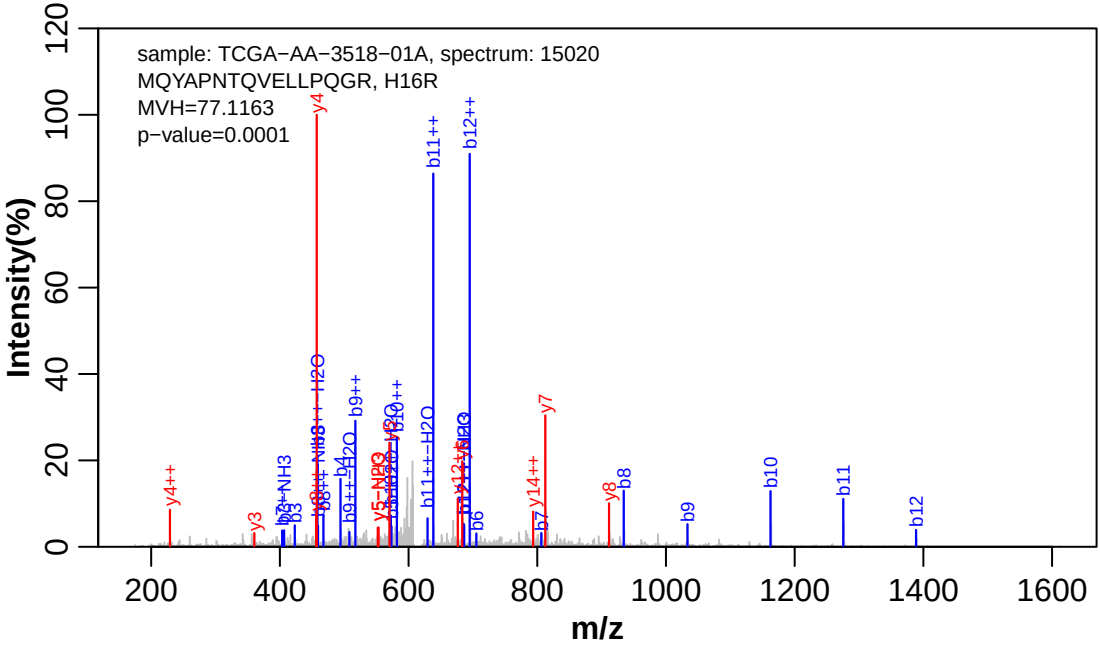

sample: TCGA−AA−3518−01A, spectrum: 124062
LLSDLLPPSTGTFQEAQSR, S5L
MVH=51.4589
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y13
y12
y14
b5−H2O
b5
b6−H2O
b6

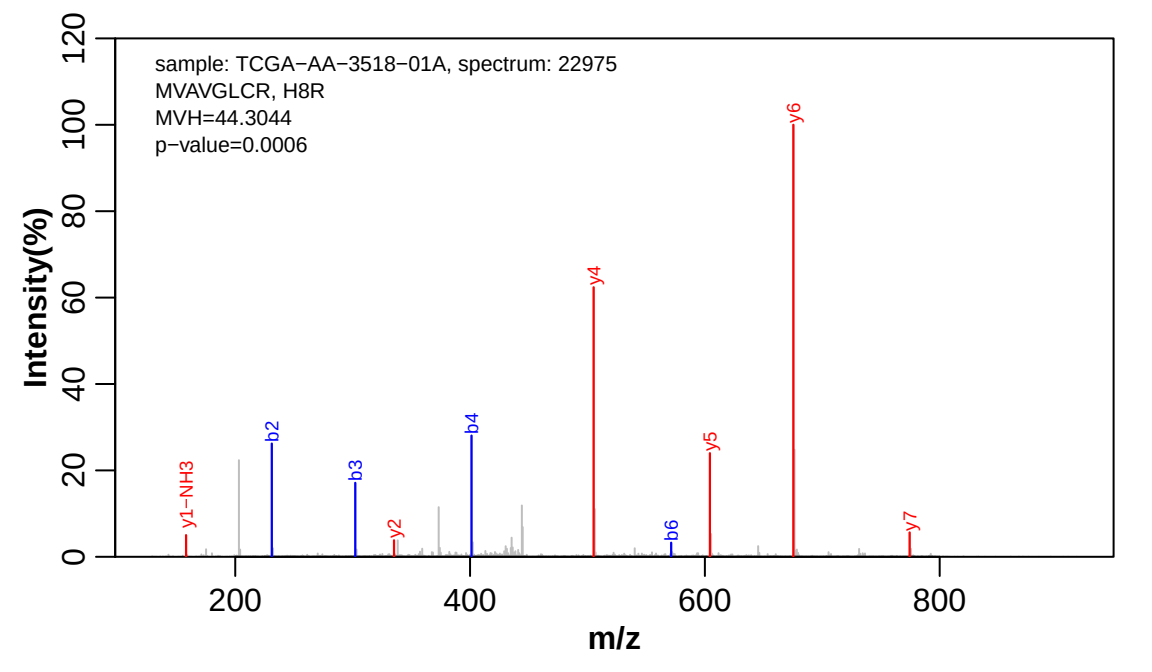

sample: TCGA−AA−3518−01A, spectrum: 100898
LQQQHSEQPPLQPSPVTTR, M17T
MVH=57.1689
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b8++
b9++
y10++−NH3
y11++
y8
b11++
b11++−NH3
b12++−H2O
y13++−H2O
y7
y14++−H2O
y8
y9−NH3
y9−H2O
b8

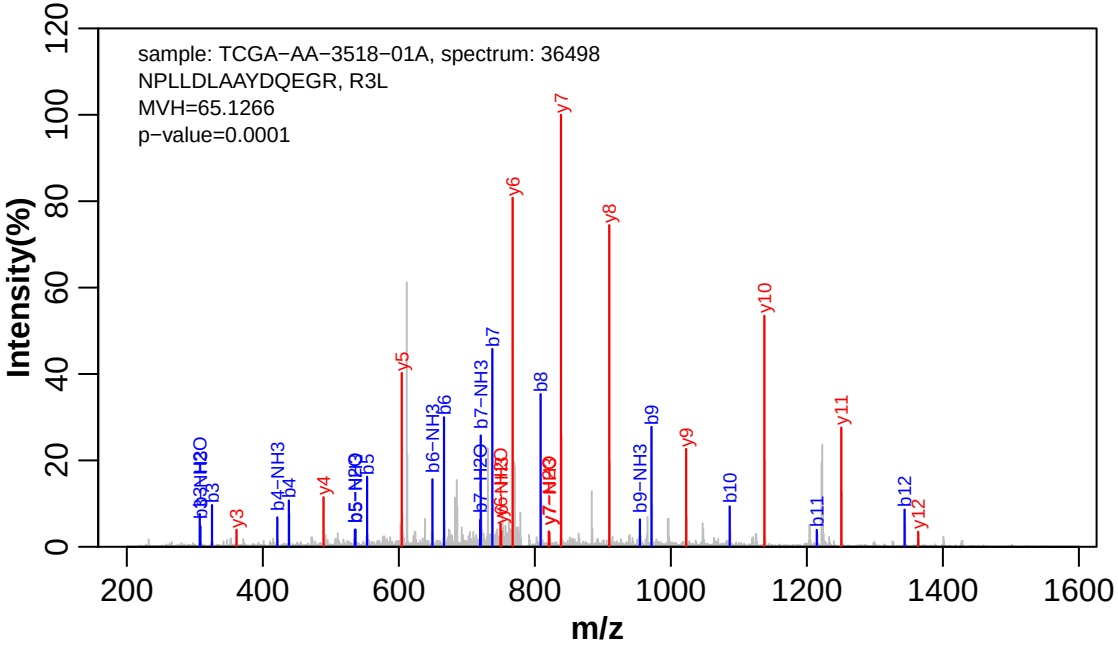

sample: TCGA−AA−3518−01A, spectrum: 87001
LSVTWPEGDELLPNELRPAGTPLGALR, V16I
MVH=43.1484
p−value=0.0001
y22++
y15++−H2O
y15++
y9−NH3
y18++−H2O
y20++
y23++
y24++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

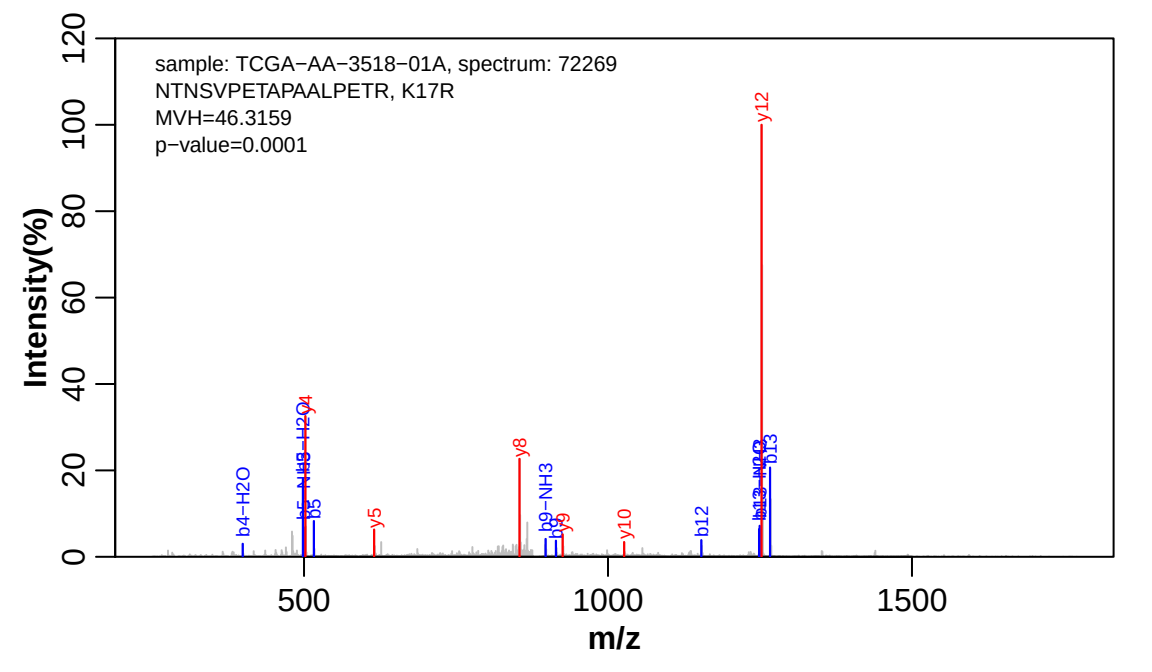

sample: TCGA−AA−3518−01A, spectrum: 144396
LTLVPVYTSPQLDMSCPLLQQNK, A4V
MVH=70.5428
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3−H2O
b4
y4−NH3
y4
b6
b7
b15++
y14++
y7
y16++
b9
y7−NH3
y7
b18++−NH3
y9
y19++−H2O
y19++

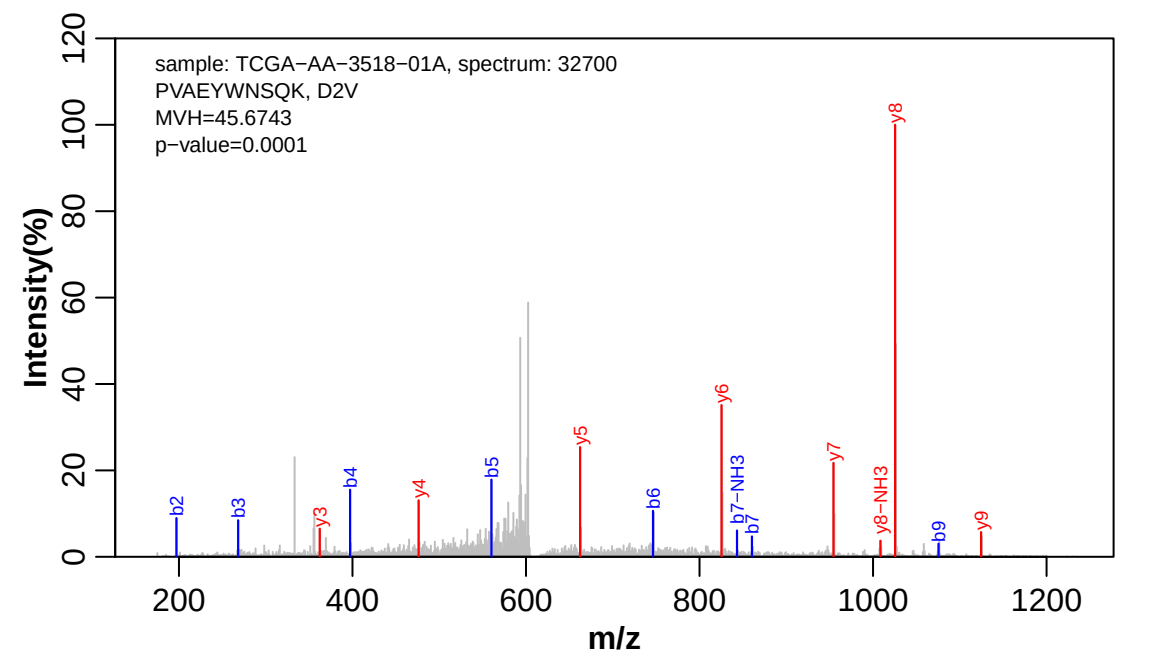

sample: TCGA−AA−3518−01A, spectrum: 86486
LTQAQLFDYSELPNFPR, G10S
MVH=52.0074
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5++
b4−NH3
y5
b6
b12++
y6
y13++
b15++
b11

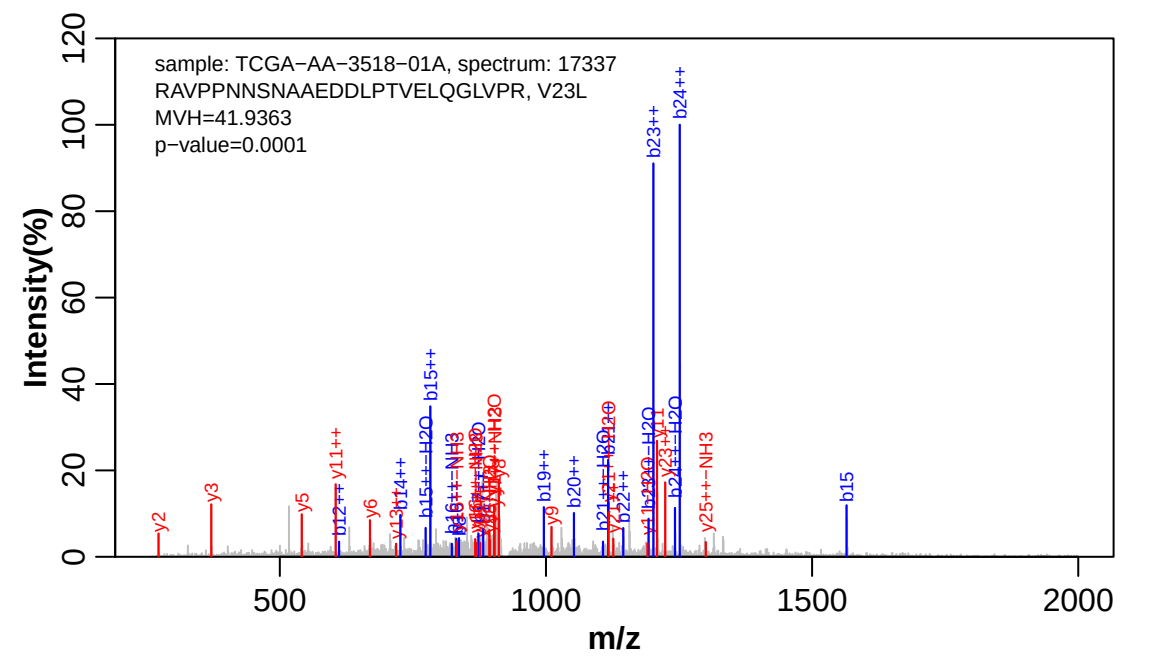

sample: TCGA−AA−3518−01A, spectrum: 15020
MQYAPNTQVELLPQGR, H16R
MVH=77.1163
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y4++
y3
b3
b3−NH3
b3−H2O
b4
b9++
b11++
b11++−H2O
b12++
y7
y14++
y8
b8
b9
b10
b11
b12
b6
b7

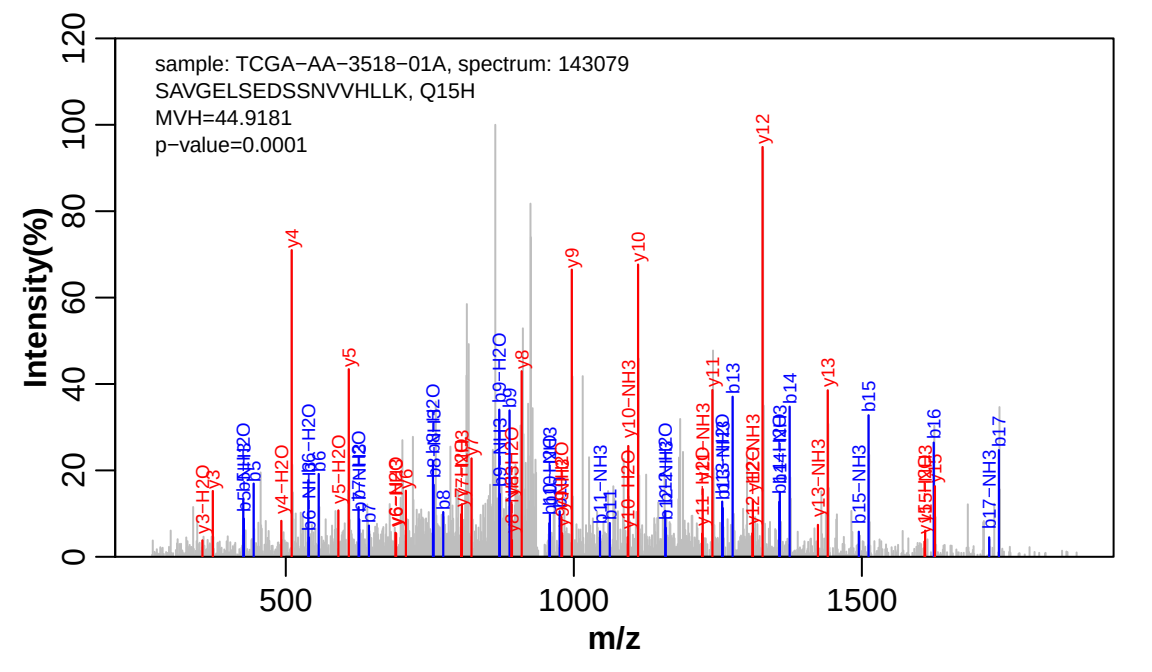

sample: TCGA−AA−3518−01A, spectrum: 22975
MVAVGLCR, H8R
MVH=44.3044
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

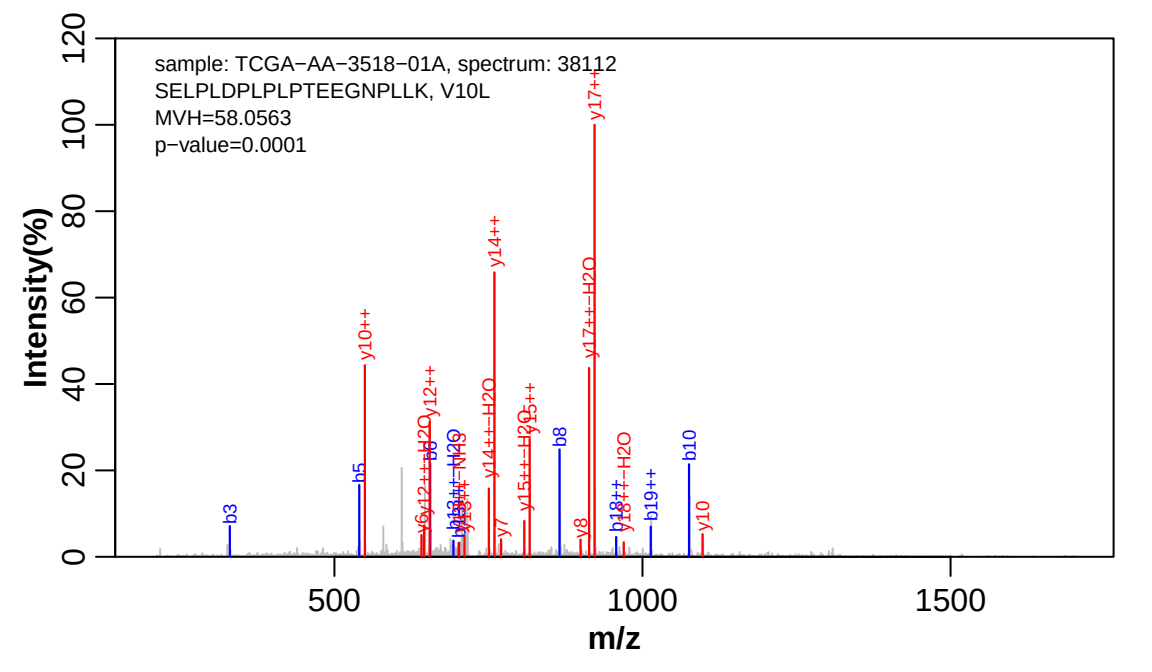

sample: TCGA−AA−3518−01A, spectrum: 36498
NPLLDLAAYDQEGR, R3L
MVH=65.1266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
b7
b8
b6
b6−NH3
b7−NH3
y11
b9
y9
b4−NH3
y4
b10
b9−NH3
b12
b11
y12
y3

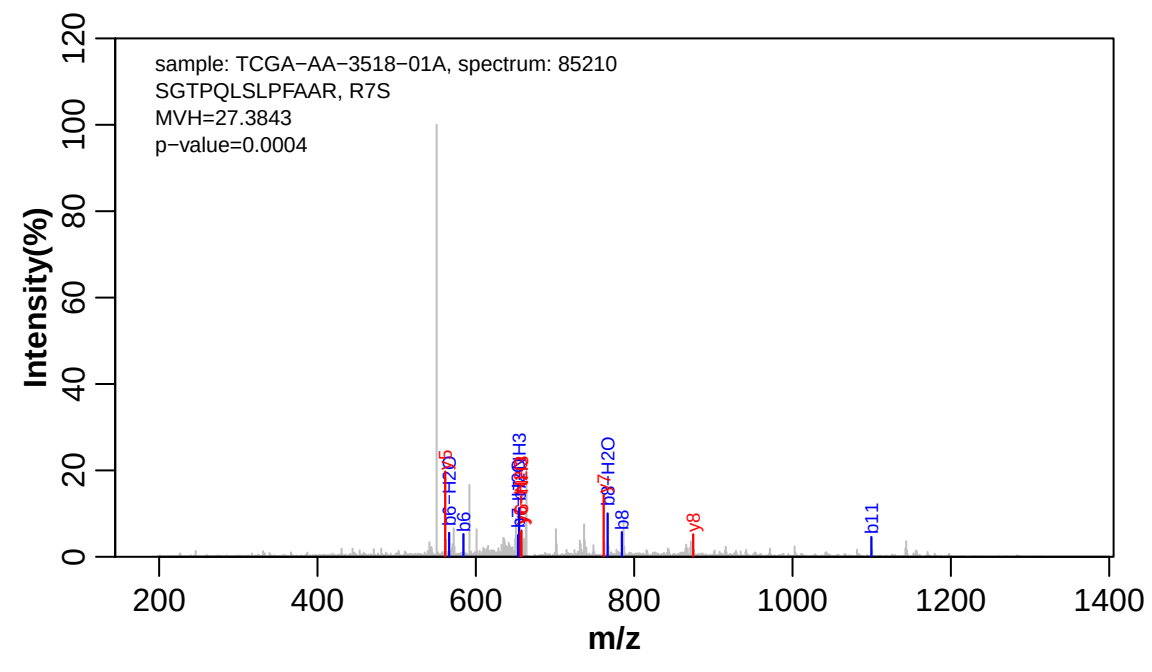

sample: TCGA−AA−3518−01A, spectrum: 72269
NTNSVPETAPAALPETR, K17R
MVH=46.3159
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y8
y5
y10
b12
b13
b4−H2O
b5
b9−NH3

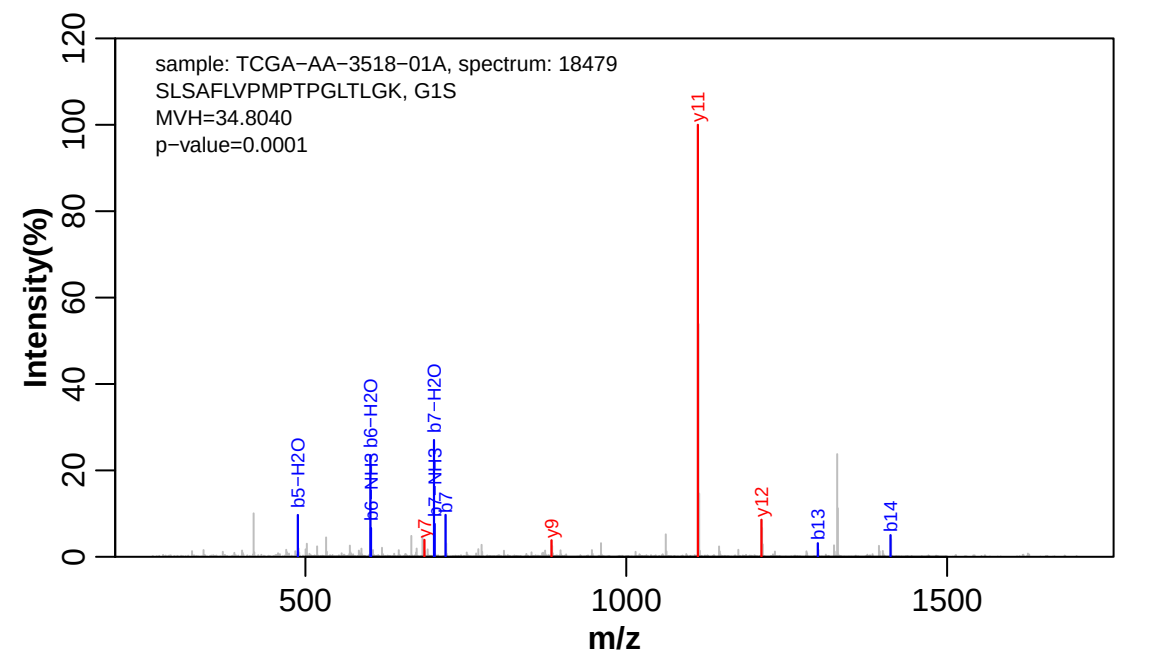

sample: TCGA−AA−3518−01A, spectrum: 32700
PVAEYWNSQK, D2V
MVH=45.6743
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
b7−NH3
b7
y7
y8−NH3
y8
b9
y9

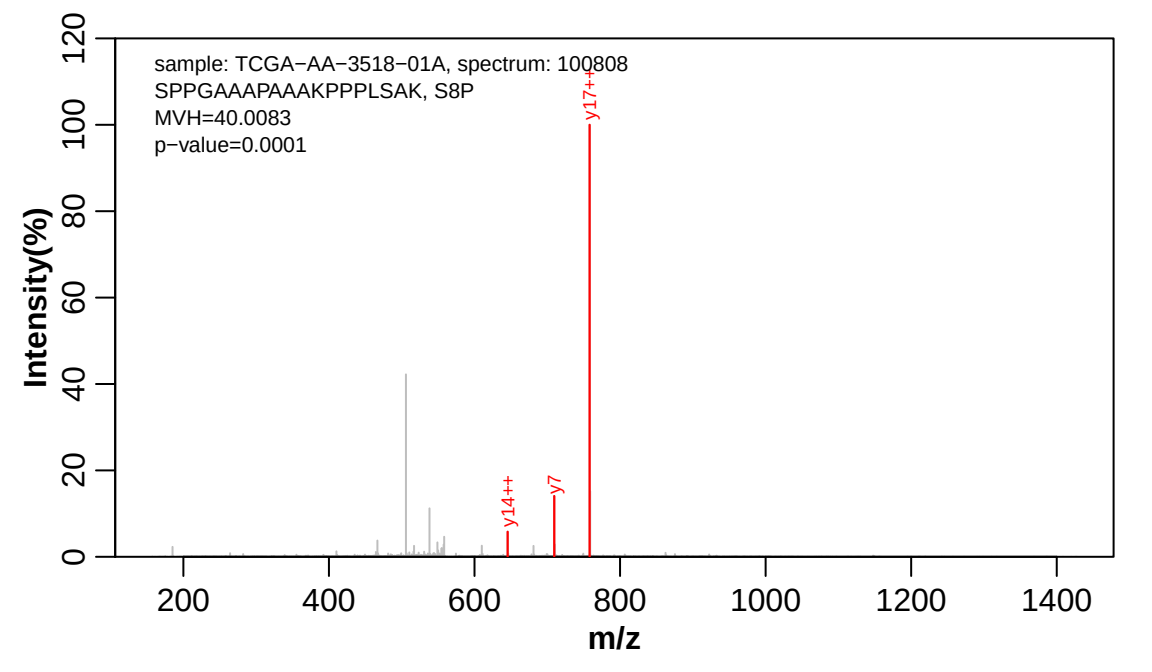

sample: TCGA−AA−3518−01A, spectrum: 17337
RAVPPNNSNAAEDDLPTVELQGLVPR, V23L
MVH=41.9363
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y5
b12++
y11++
y6
y13
b14++
b15++−H2O
b15++
b16++−NH3
b19++
y9
b20++
b21++−H2O
b22++
b23++
b24++
y23++
b25++−H2O
y25++−NH3
b15

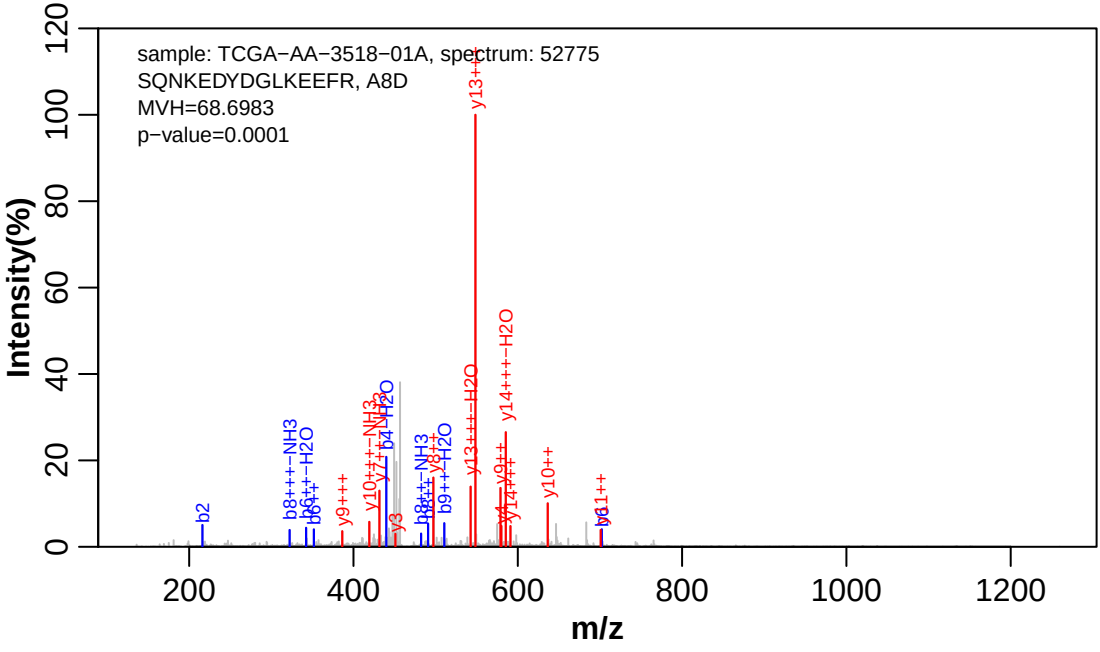

sample: TCGA−AA−3518−01A, spectrum: 143079
SAVGELSEDSSNVVHLLK, Q15H
MVH=44.9181
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y9
y10
y12
y3−H2O
y4−H2O
y5−H2O
y8
y10−NH3
y11
b13
y13
b14
b15
y13−NH3
b15−NH3
b16
b17
b17−NH3

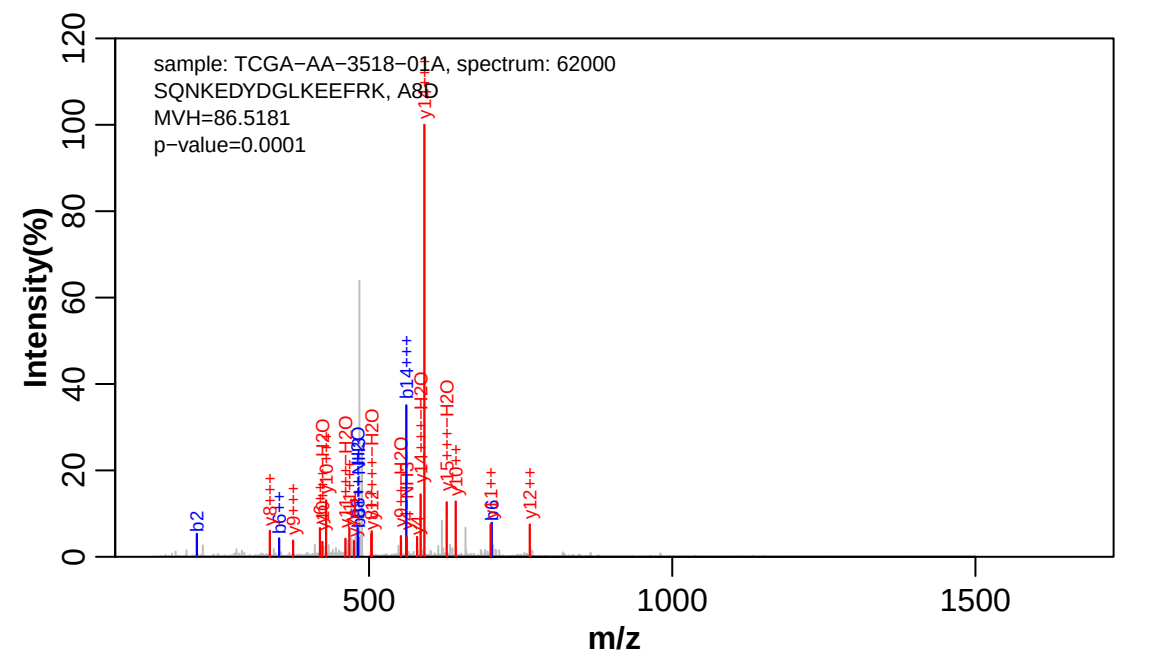

sample: TCGA−AA−3518−01A, spectrum: 38112
SELPLDPLPLPTEEGNPLLK, V10L
MVH=58.0563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b5
y10++
y12++
y14++
y14++−H2O
y17++
y17++−H2O
b8
y15++−H2O
b10
b18++
b18++−H2O
b19++
y10

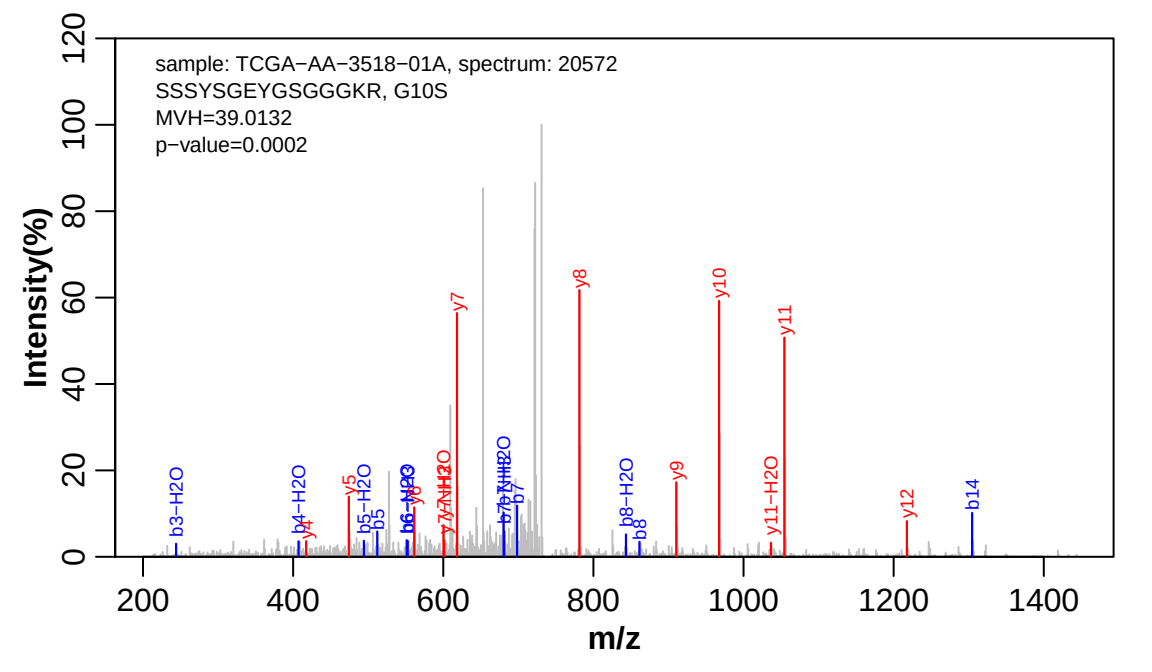

sample: TCGA−AA−3518−01A, spectrum: 85210
SGTPQLSLPFAAR, R7S
MVH=27.3843
p−value=0.0004
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b6−H2O
b6
b7−H2O
b7
b8−H2O
b8
y8
b11

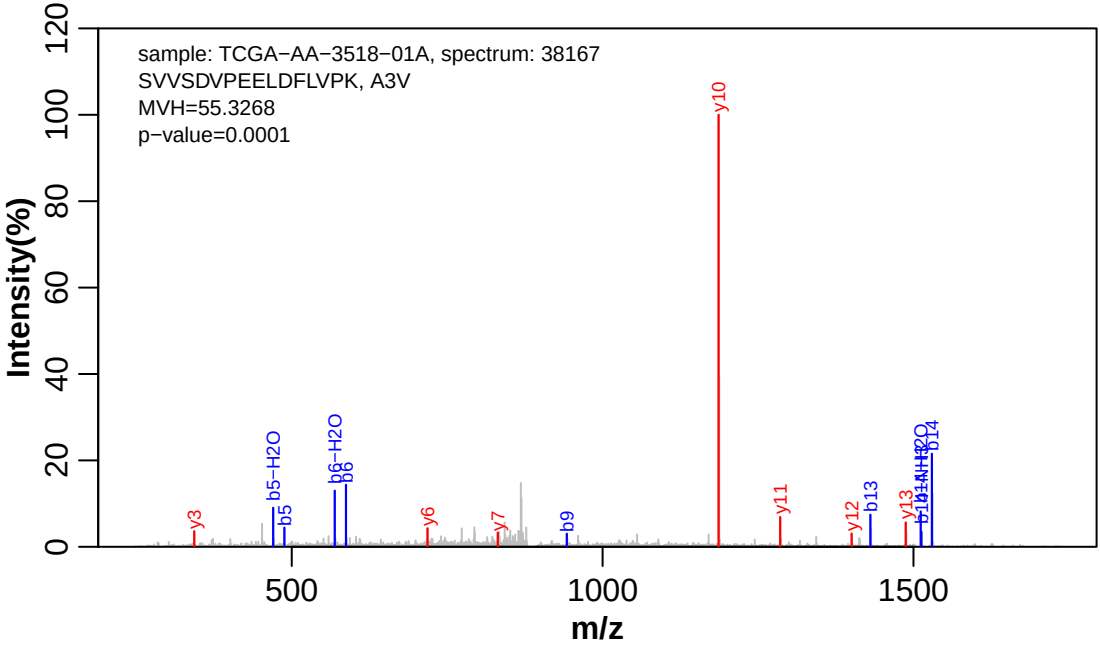

sample: TCGA−AA−3518−01A, spectrum: 18479
SLSAFLVPMPTPGLTLGK, G1S
MVH=34.8040
p−value=0.0001
Intensity(%)
m/z
y11
b5−H2O
b6−NH3
b6−H2O
b7−H2O
b7−NH3
b7
y7
y9
y12
b13
b14

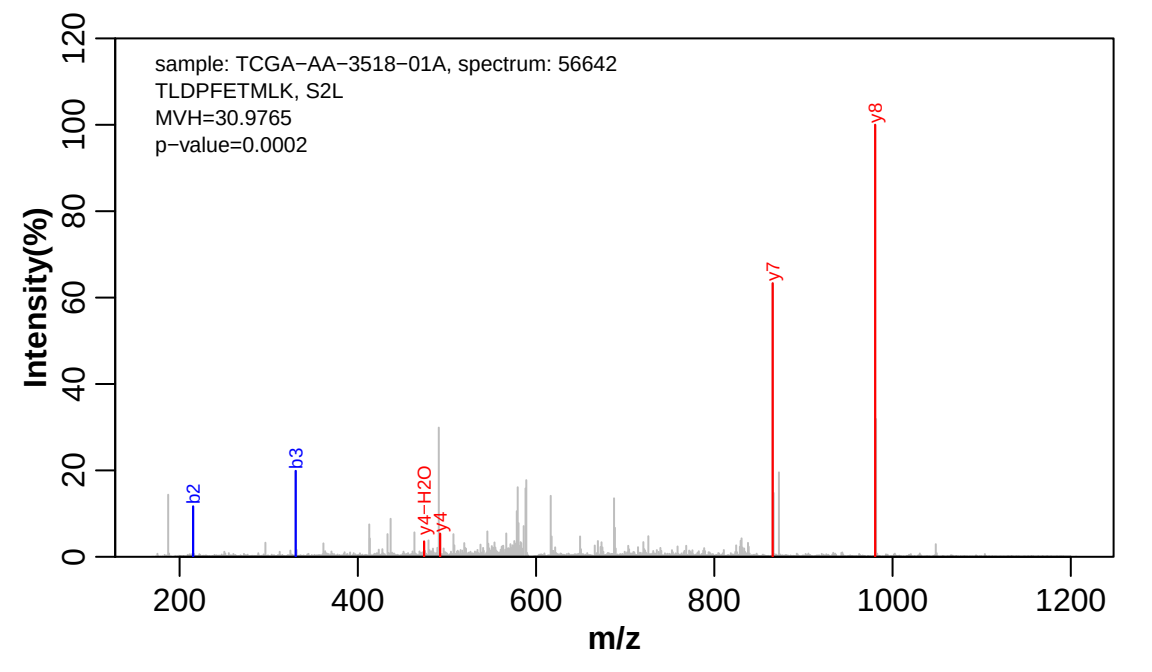

sample: TCGA−AA−3518−01A, spectrum: 100808
SPPGAAAPAAAKPPPLSAK, S8P
MVH=40.0083
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

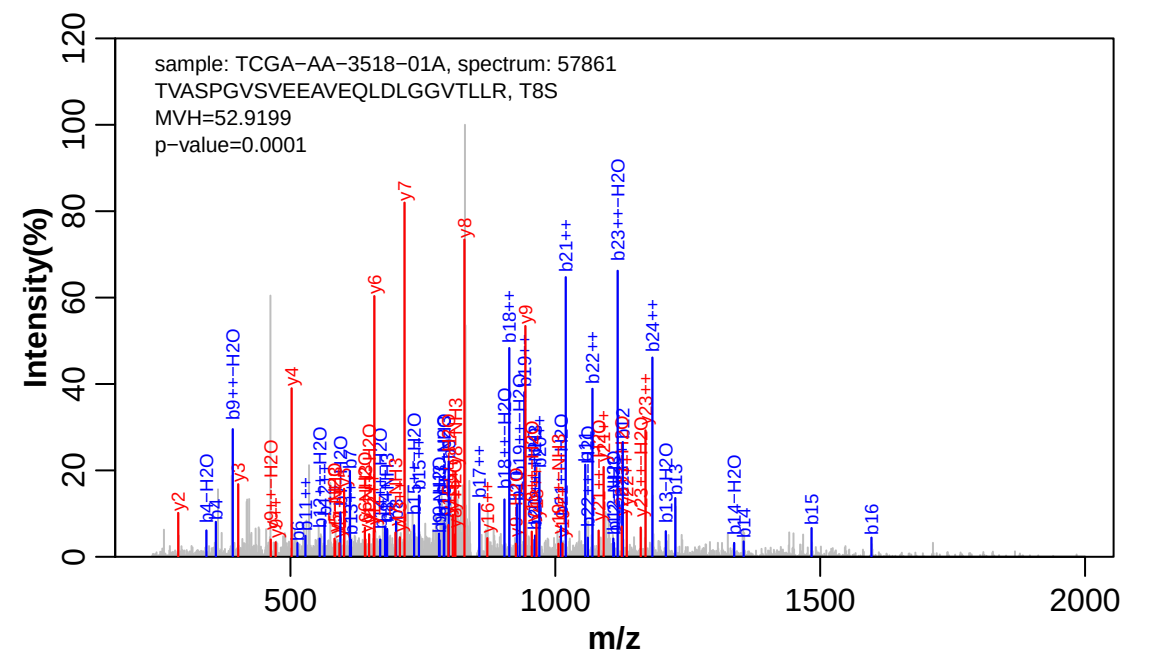

sample: TCGA−AA−3518−01A, spectrum: 52775
SQNKEDYDGLKEEFR, A8D
MVH=68.6983
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b8+++−NH3
b8++−H2O
b8++
y9+++
v10+++−NH3
y7++
b4++−H2O
y3
b8++−NH3
b8++
y8++
b9++−H2O
y13+++−H2O
y13+++
y14+++−H2O
y9++
y12+++
y10++
b11++

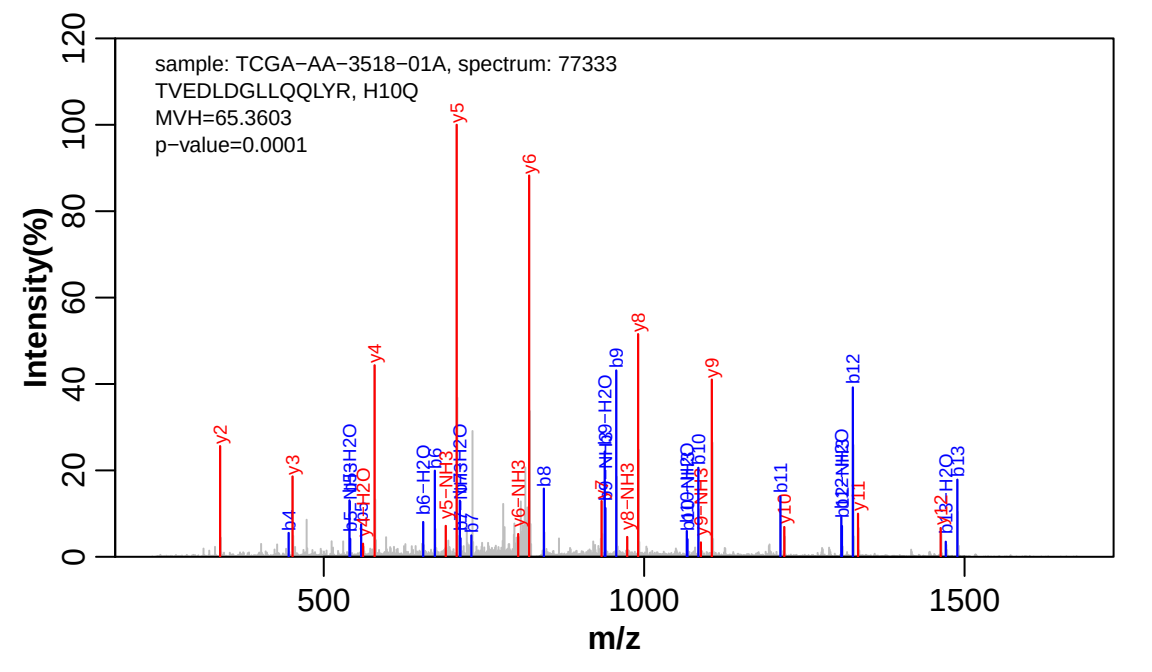

sample: TCGA−AA−3518−01A, spectrum: 62000
SQNKEDYDGLKEEFRK, A8D
MVH=86.5181
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y8++
b6++
y9+++
y12++
b14+++
y15+++−H2O
y10++
y12++

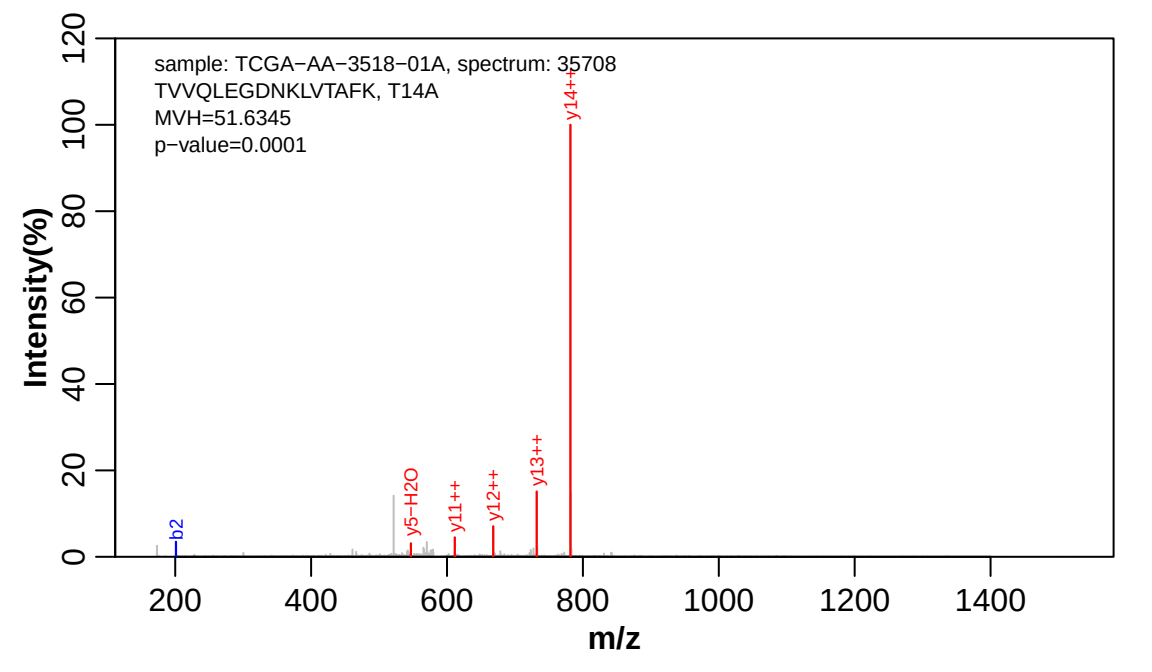

sample: TCGA−AA−3518−01A, spectrum: 20572
SSSYSGEYGSGGGKR, G10S
MVH=39.0132
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y4−H2O
y4
y5
b5−H2O
b5
y7
y8
y10
y11
b7
b8−H2O
b8
y9
y11−H2O
y12
b14

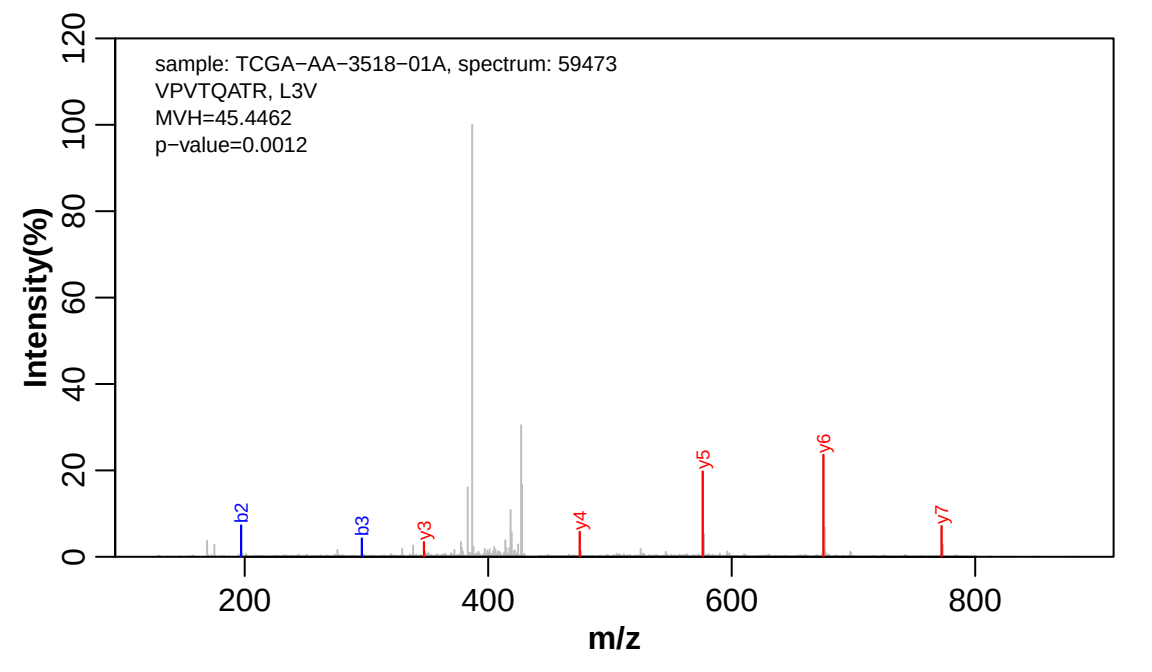

sample: TCGA−AA−3518−01A, spectrum: 38167
SVVSDVPEELDFLVPK, A3V
MVH=55.3268
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5−H2O
b5
b6−H2O
b6
y6
y7
b9
y10
y11
y12
b13
y13
b14

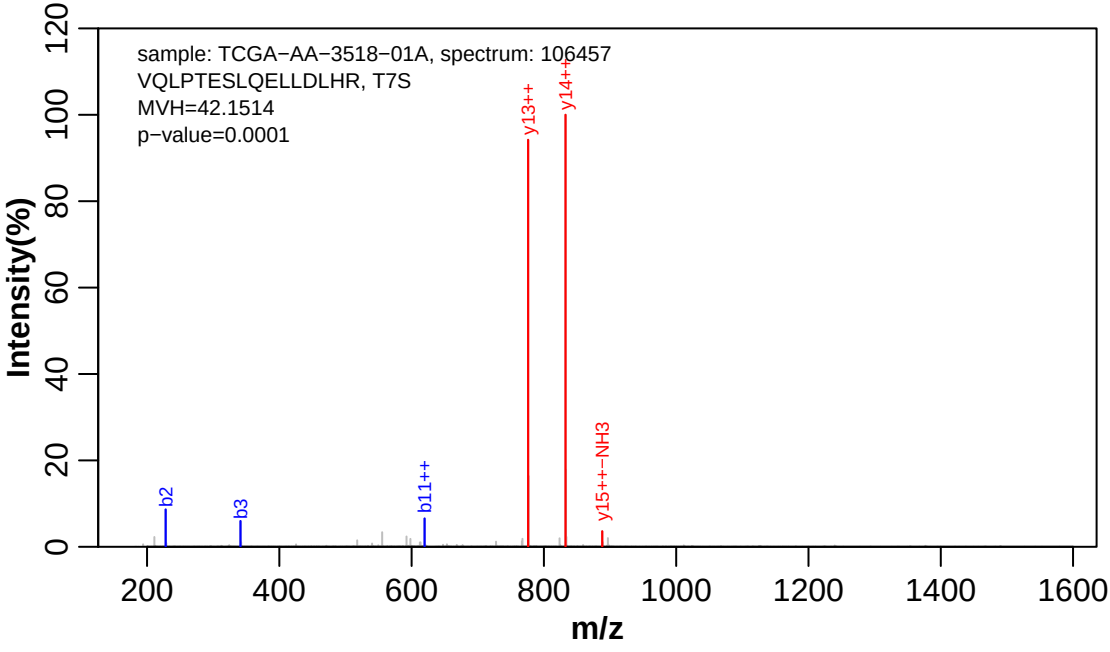

sample: TCGA−AA−3518−01A, spectrum: 56642
TLDPFETMLK, S2L
MVH=30.9765
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4−H2O
y4
y7
y8

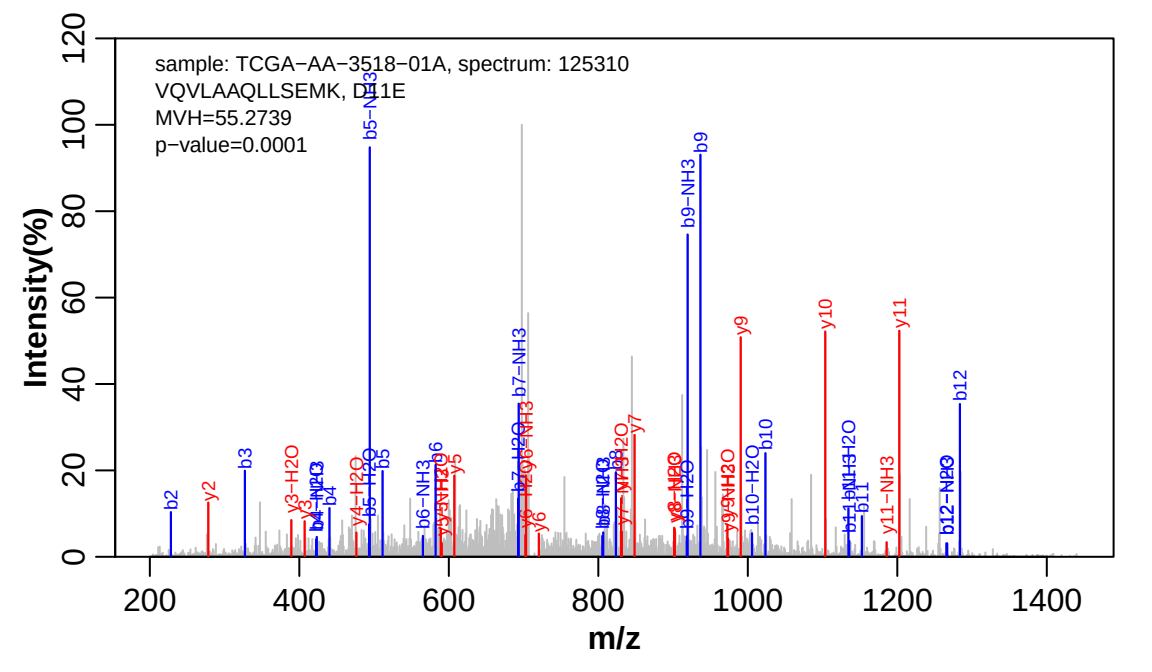

sample: TCGA−AA−3518−01A, spectrum: 57861
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=52.9199
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4−H2O
b4
y3
b9++−H2O
y8++−H2O
y4
b11++
y6
y7
y8
b15+−H2O
b17++
y16++
b18++−H2O
b18++
y9++
b21++
b22++
b23++−H2O
b24++
y23++−H2O
y23++
b13−H2O
b13
b14−H2O
b14
b15
b16

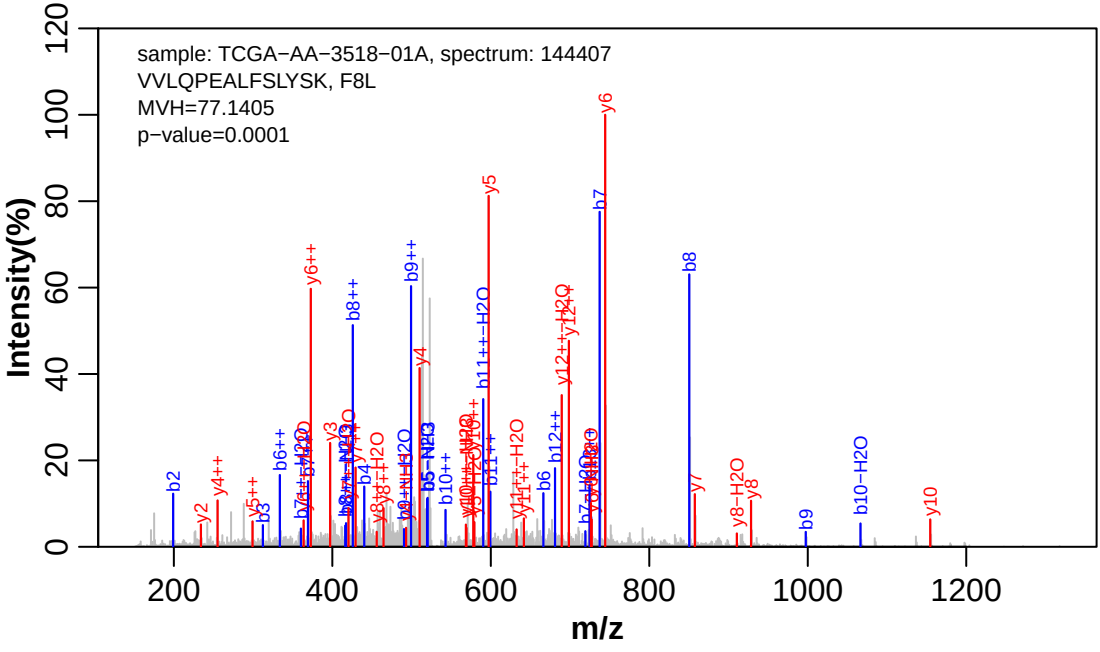

sample: TCGA−AA−3518−01A, spectrum: 77333
TVEDLDGLLQQLYR, H10Q
MVH=65.3603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4
y4
y5
y6
b8
y8
b9
y9
b12
y10
b11
y11
b13
y12

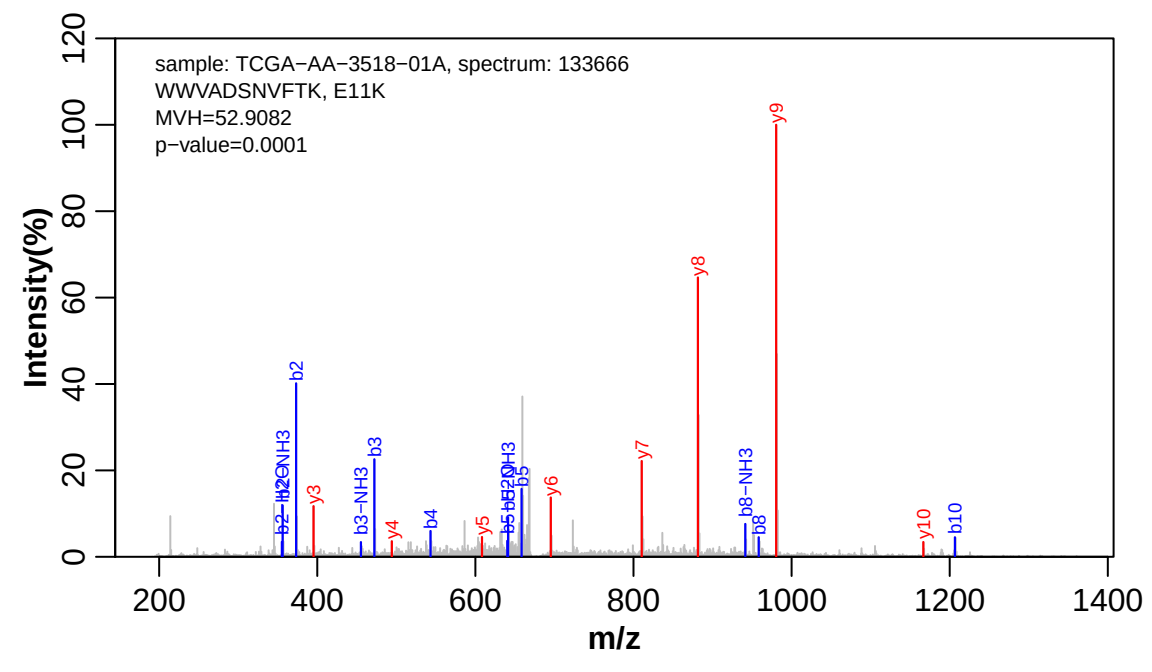

sample: TCGA−AA−3518−01A, spectrum: 35708
TVVQLEGDNKLVTAFK, T14A
MVH=51.6345
p−value=0.0001
b2
y5−H2O
y11++
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

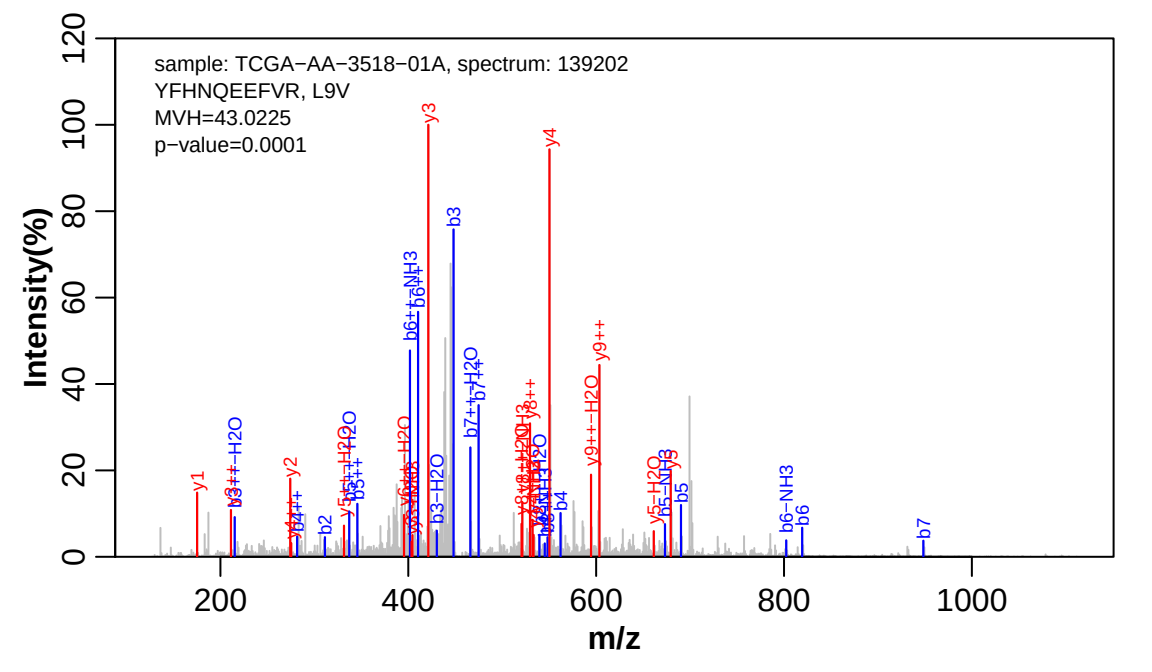

sample: TCGA−AA−3518−01A, spectrum: 59473
VPVTQATR, L3V
MVH=45.4462
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

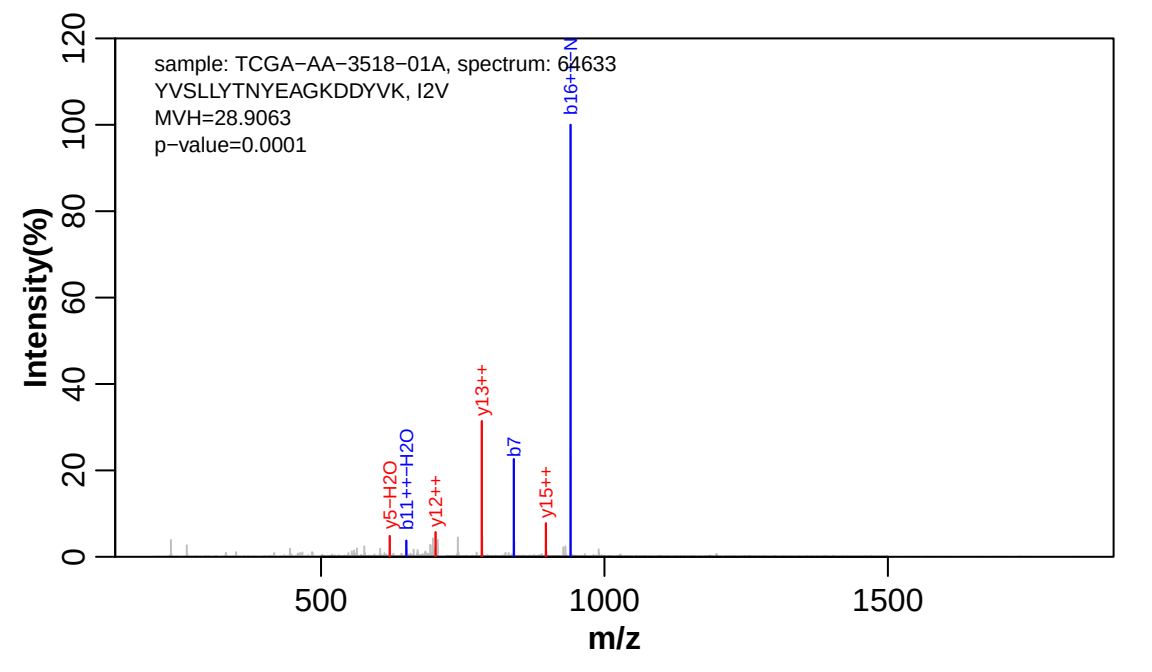

sample: TCGA−AA−3518−01A, spectrum: 106457
VQLPTESLQELLDLHR, T7S
MVH=42.1514
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

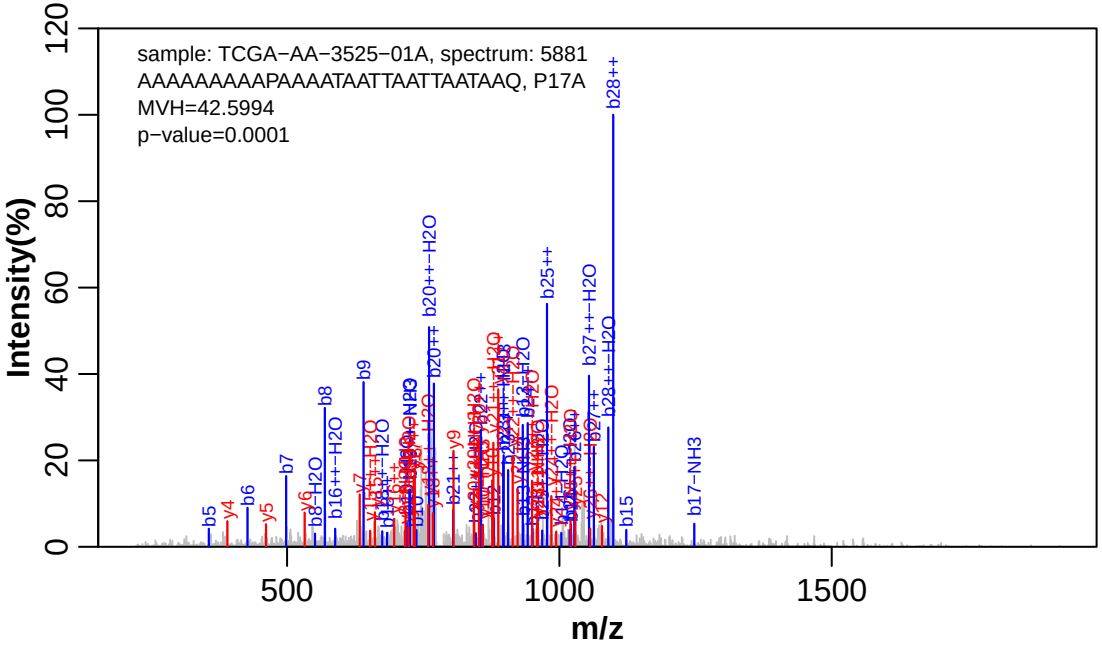

sample: TCGA−AA−3518−01A, spectrum: 125310
VQVLAAQLLSEMK, D11E
MVH=55.2739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
b4
y4−H2O
b5−NH3
b5
b6−NH3
y5
b7−H2O
b7−NH3
y6
y7
b9−NH3
b9
y9
y10
b10
b10−H2O
y11
y11−NH3
b12

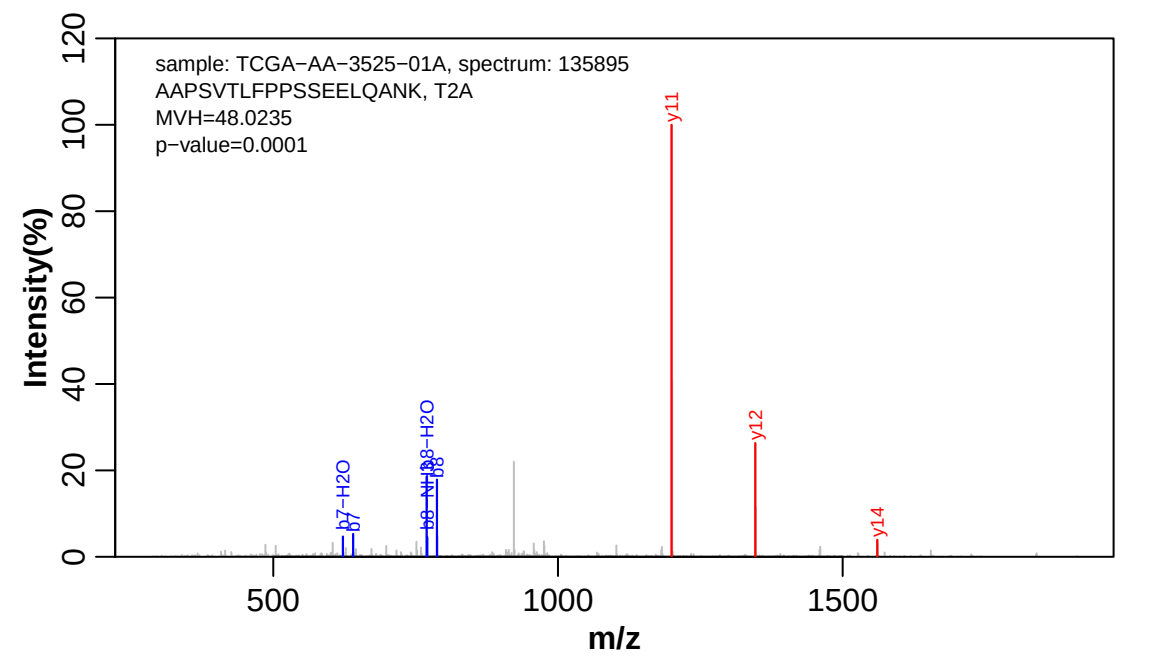

sample: TCGA−AA−3518−01A, spectrum: 144407
VVLQPEALFSLYSK, F8L
MVH=77.1405
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y4++
b3
y5++
b6++
b7++−H2O
y6++
y3
b8++
b4
y8++−H2O
b9++−H2O
b5−NH3
b9++
y4
b10++
b11++−H2O
y5
b11++
y11++−H2O
b6
b12++
y12++−H2O
y12++
b7
b8
y7
y8−H2O
y8
b9
b10−H2O
y10

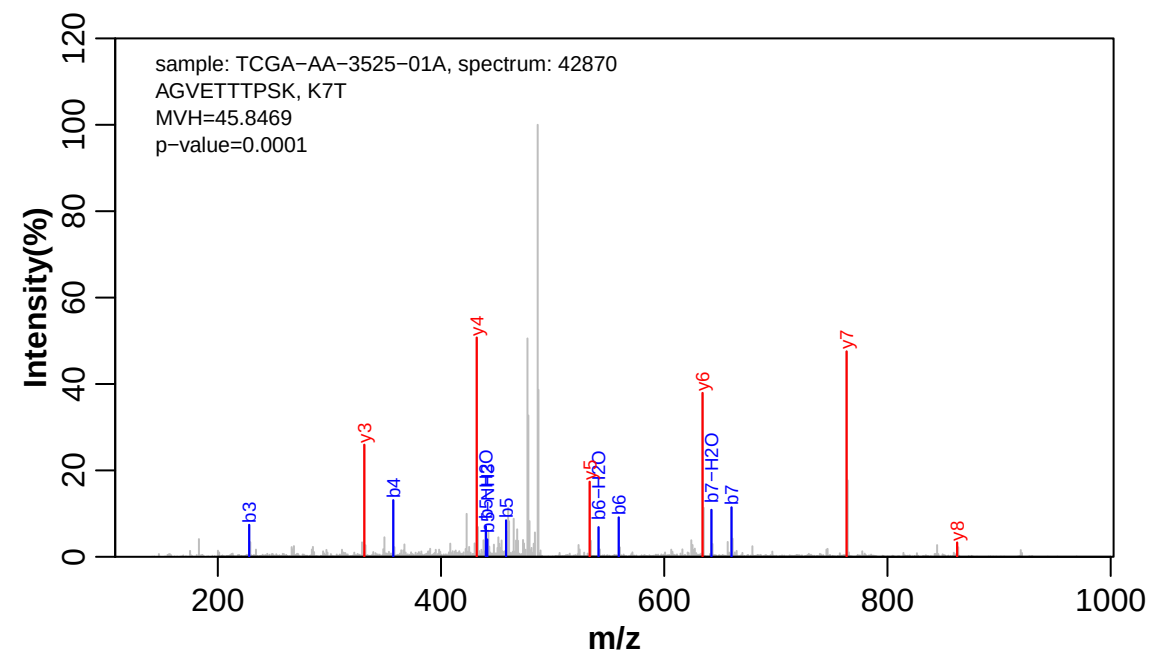

sample: TCGA−AA−3518−01A, spectrum: 133666
WWVADSNVFTK, E11K
MVH=52.9082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b3−NH3
b3
y4
b4
y5
y6
y7
y8
y9
b8−NH3
b8
y10
b10

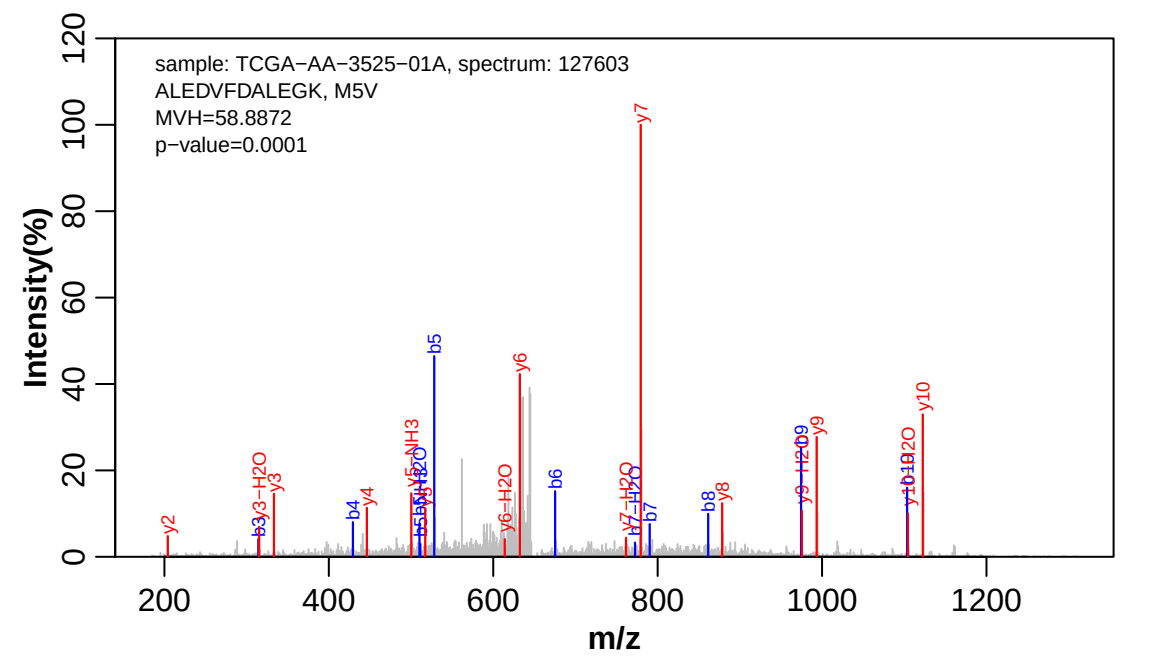

sample: TCGA−AA−3518−01A, spectrum: 139202
YFHNQEEFVR, L9V
MVH=43.0225
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y3
y4
b3
b6+−NH3
b6+
b7++−H2O
b7++
y9++
y9++−H2O
y8++
y1
b3++−H2O
y2
b3++
b2
b3−H2O
y5−H2O
y5−NH3
y5
b5
b4
b6−NH3
b6
b7

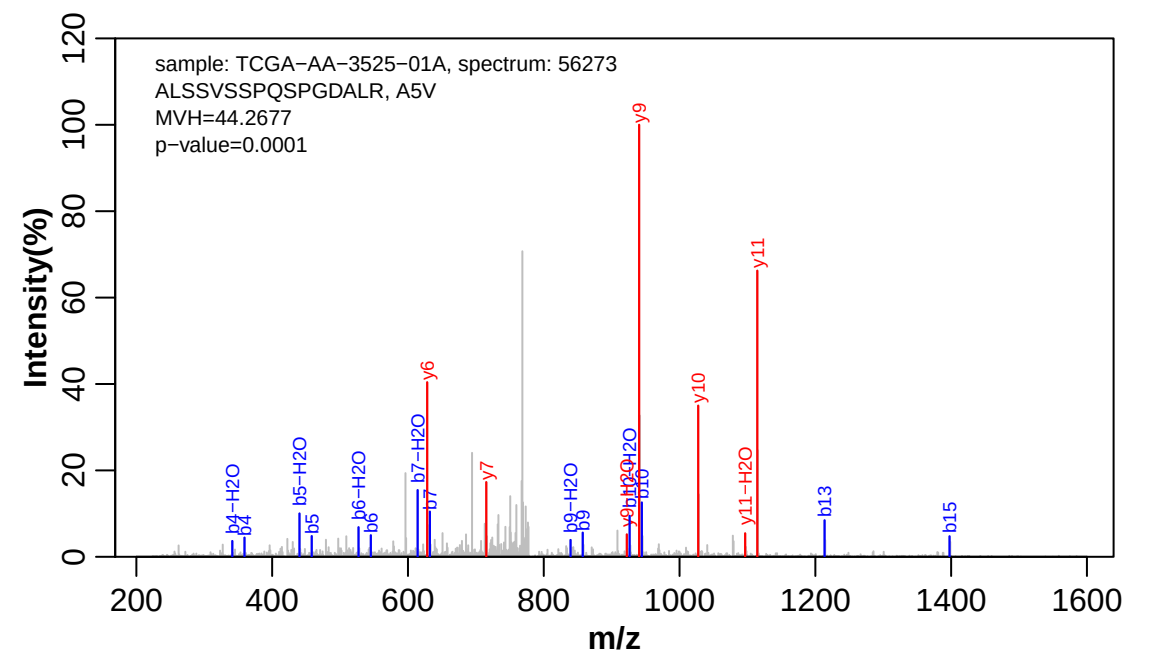

sample: TCGA−AA−3518−01A, spectrum: 64633
YVSLLYTNYEAGKDDYVK, I2V
MVH=28.9063
p−value=0.0001
b16++−N
y13++
b7
y15++
b11++−H2O
y5−H2O
y12++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

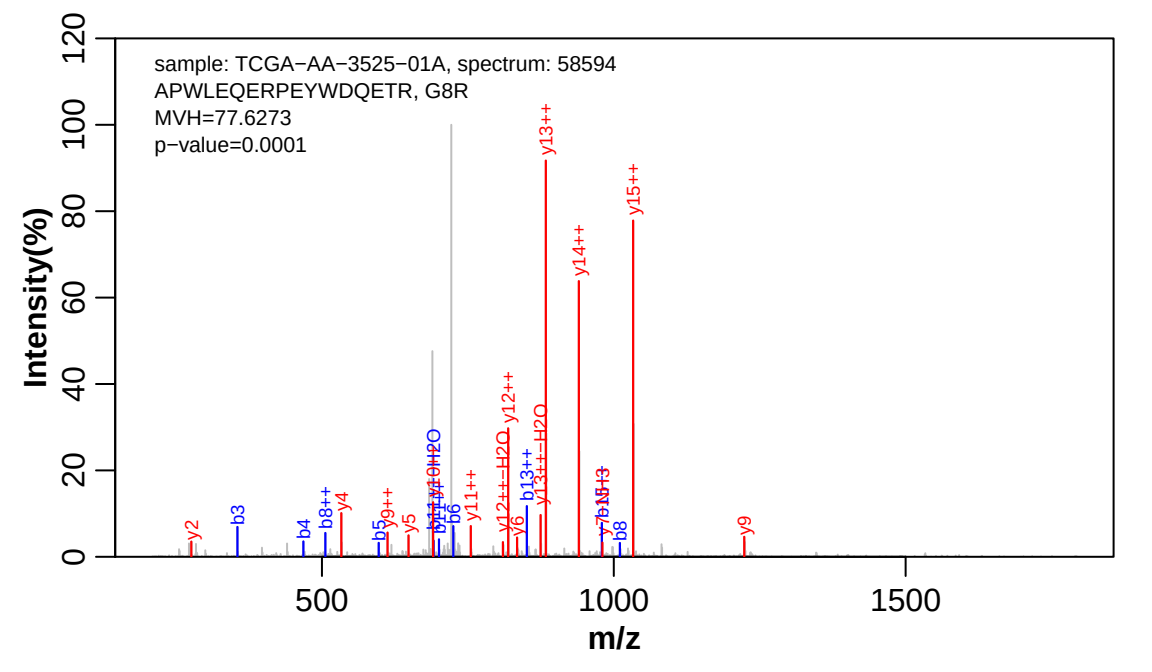

sample: TCGA−AA−3525−01A, spectrum: 5881
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=42.5994
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b28++
b20++−H2O
b25++
b27++−H2O
b28++−H2O
b9
b8
b7
b6
b5
y4
y5
y6
b8−H2O
b16++−H2O
b17−NH3
b15
y12
y7
y9

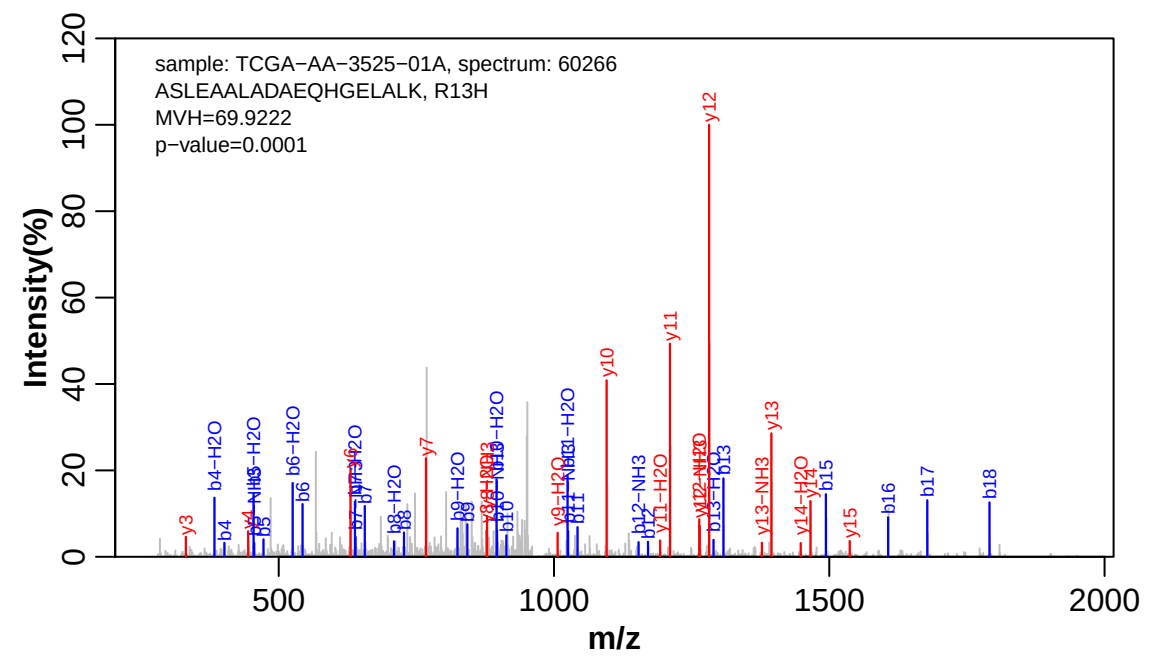

sample: TCGA−AA−3525−01A, spectrum: 135895
AAPSVTLFPPSSEELQANK, T2A
MVH=48.0235
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

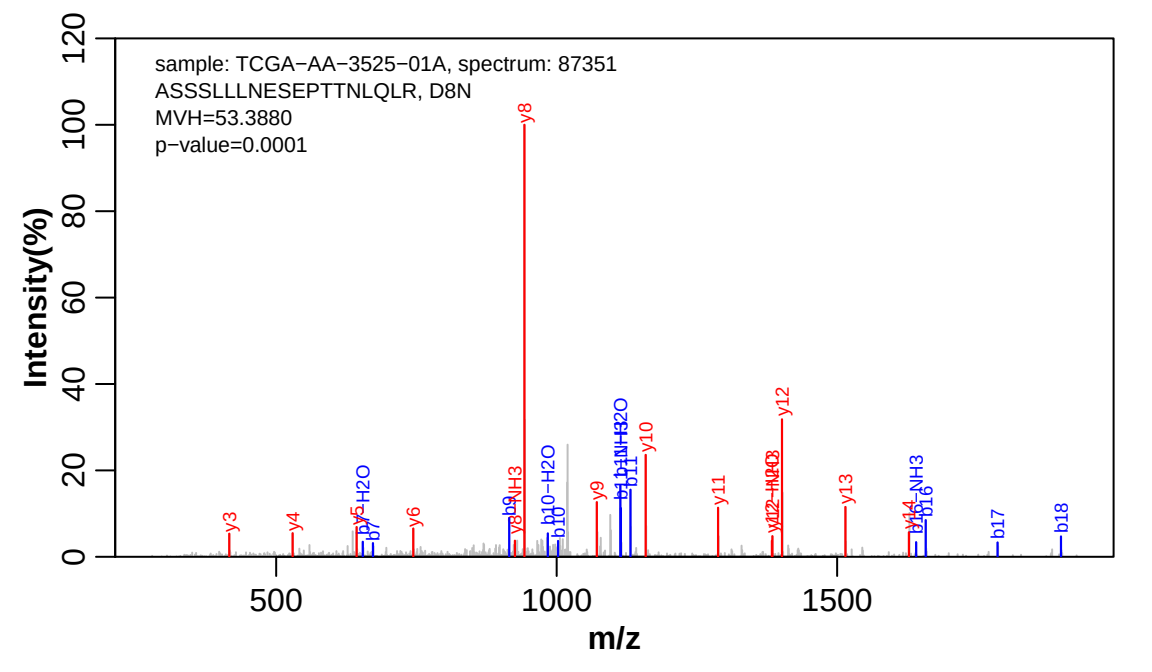

sample: TCGA−AA−3525−01A, spectrum: 42870
AGVETTTPSK, K7T
MVH=45.8469
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

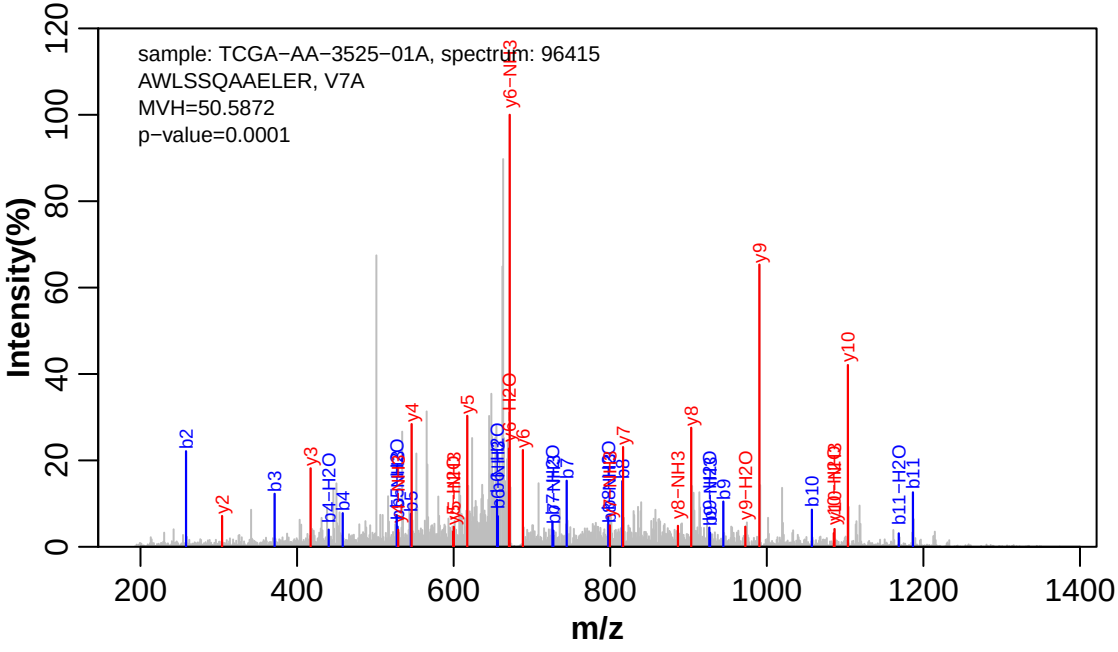

sample: TCGA−AA−3525−01A, spectrum: 127603
ALEDVFDALEGK, M5V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y5−NH3
y5
y6
y6−H2O
b6
y7
y7−H2O
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

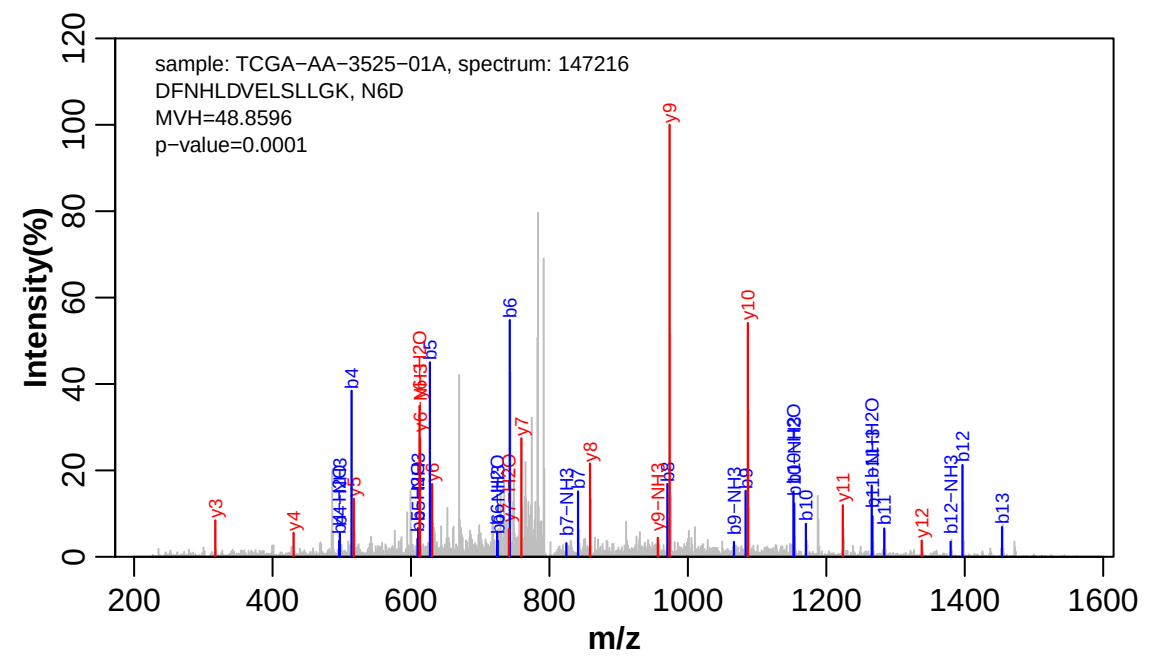

sample: TCGA−AA−3525−01A, spectrum: 56273
ALSSVSSPQSPGDALR, A5V
MVH=44.2677
p−value=0.0001
Intensity(%)
m/z
y9
y11
y6
y10
y7
y11−H2O
b13
b15
b4−H2O
b5−H2O
b6−H2O
b7−H2O
b9−H2O
b4
b5
b6
b7
b9
b10
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

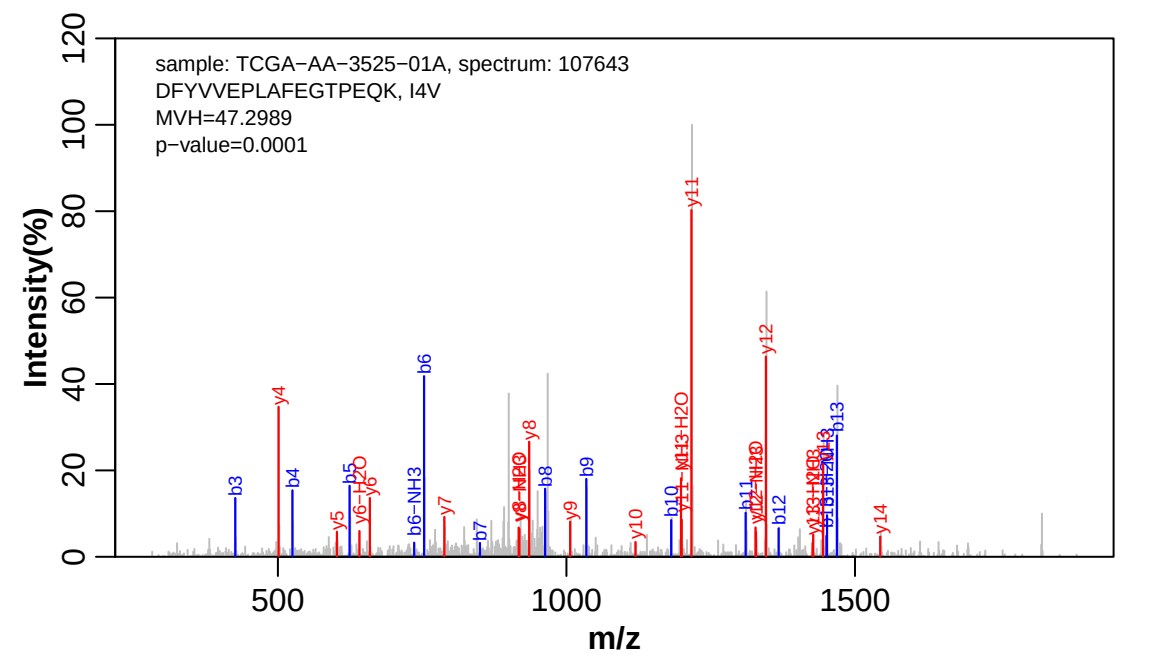

sample: TCGA−AA−3525−01A, spectrum: 58594
APWLEQERPEYWDQETR, G8R
MVH=77.6273
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
b4
b8++
y4
b5
b9++
y5
y10+H2O
b6
y11++
y12++−H2O
y12++
y6
b13++
y13++−H2O
y13++
y14++
b15+NH3
b8
y15++
y9

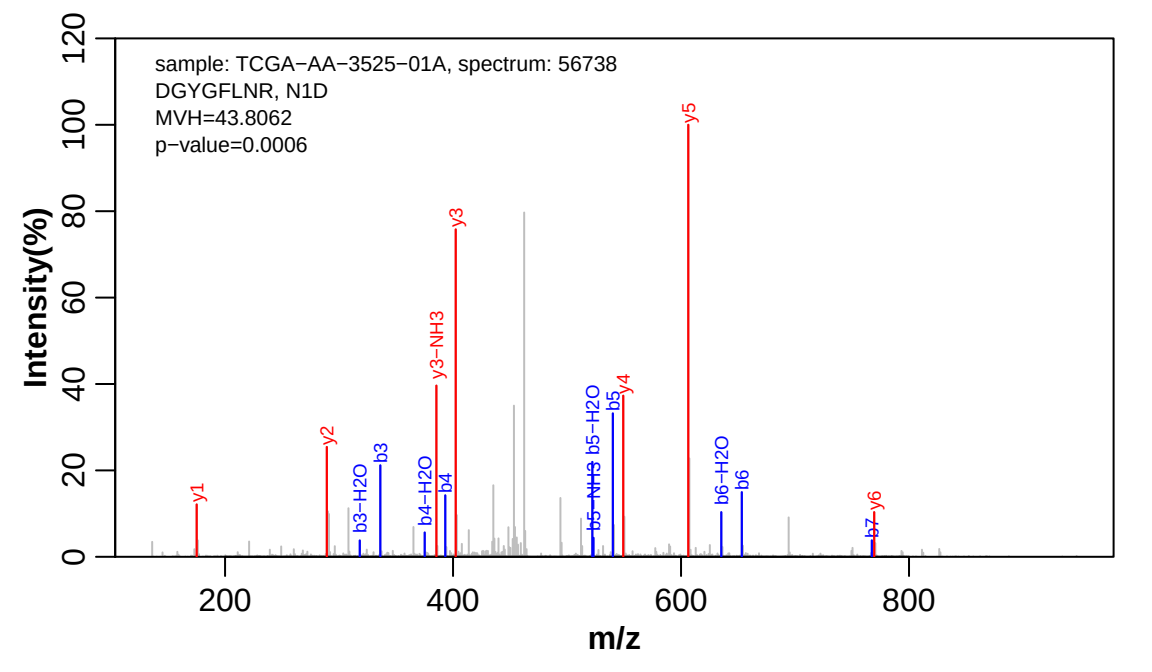

sample: TCGA−AA−3525−01A, spectrum: 60266
ASLEAALADAEQHGELALK, R13H
MVH=69.9222
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y11
y10
y13
y7
y3
y15
b4−H2O
b6−H2O
b6
b4
b16
b17
b18
b15
b12−NH3
y11−H2O
y13−NH3
y14−H2O
y9−H2O
b10−H2O
b9−H2O
b8−H2O

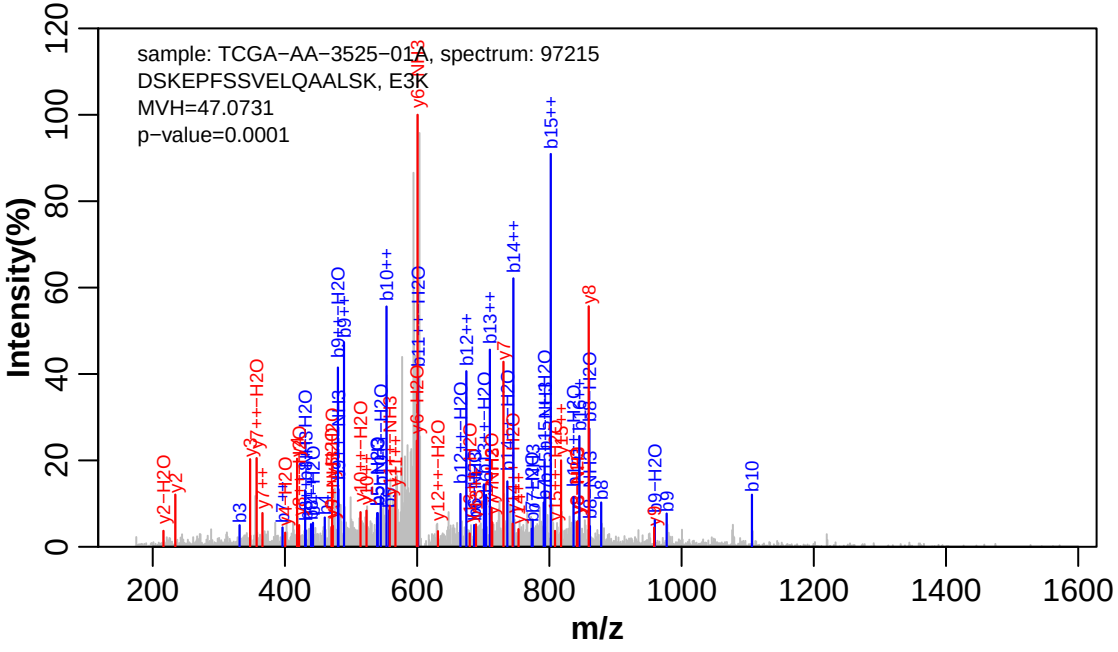

sample: TCGA−AA−3525−01A, spectrum: 87351
ASSSLLLNESEPTTNLQLR, D8N
MVH=53.3880
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
b5−H2O
b7
y6
y8
b9
y8−NH3
b10−H2O
b10
y9
b11−NH3
b11−H2O
b11
y10
y11
y12
y12−NH3
y12−H2O
y13
y14
b16−NH3
b16
b17
b18

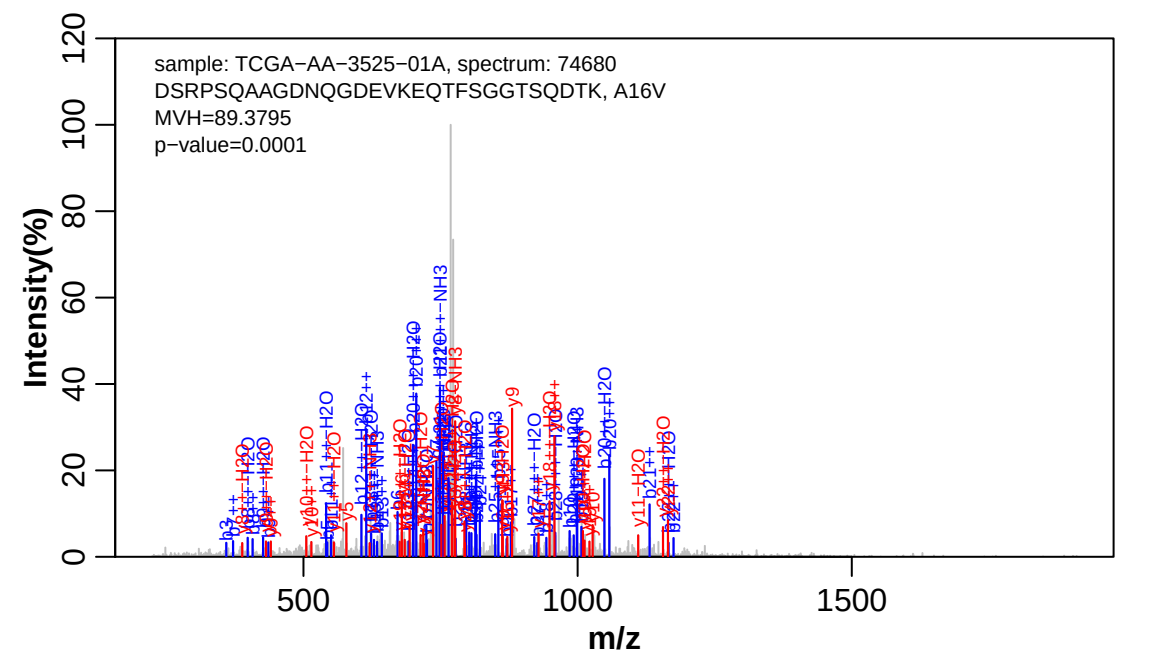

sample: TCGA−AA−3525−01A, spectrum: 96415
AWLSSQAAELER, V7A
MVH=50.5872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6−NH3
y9
y10
y8
y4
y5
y6
H2O
y7
y8−NH3
y9−H2O
b2
y2
b3
y3
b4−H2O
b4
b5
b7
b10
b11−H2O
b11

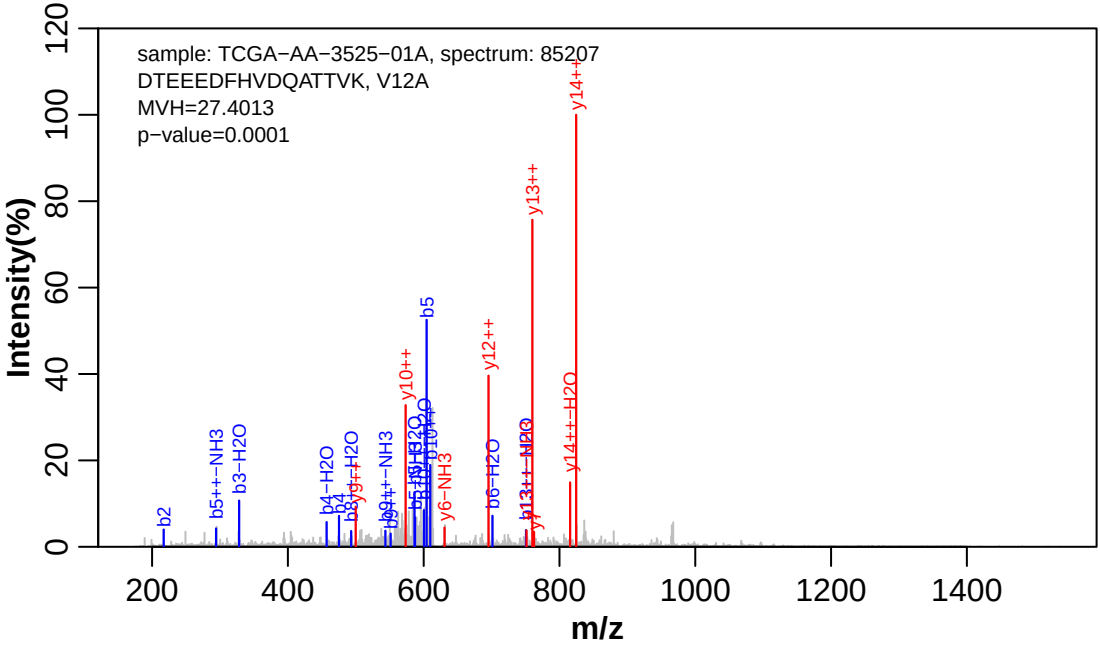

sample: TCGA−AA−3525−01A, spectrum: 147216
DFNHLDVELSLLGK, N6D
MVH=48.8596
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
b4
y6
b5
y7
b6
y8
b7
b7−NH3
y9
y9−NH3
b8
b8−NH3
y10
b9
b9−NH3
b10
y11
b11
y12
b12
b12−NH3
b13

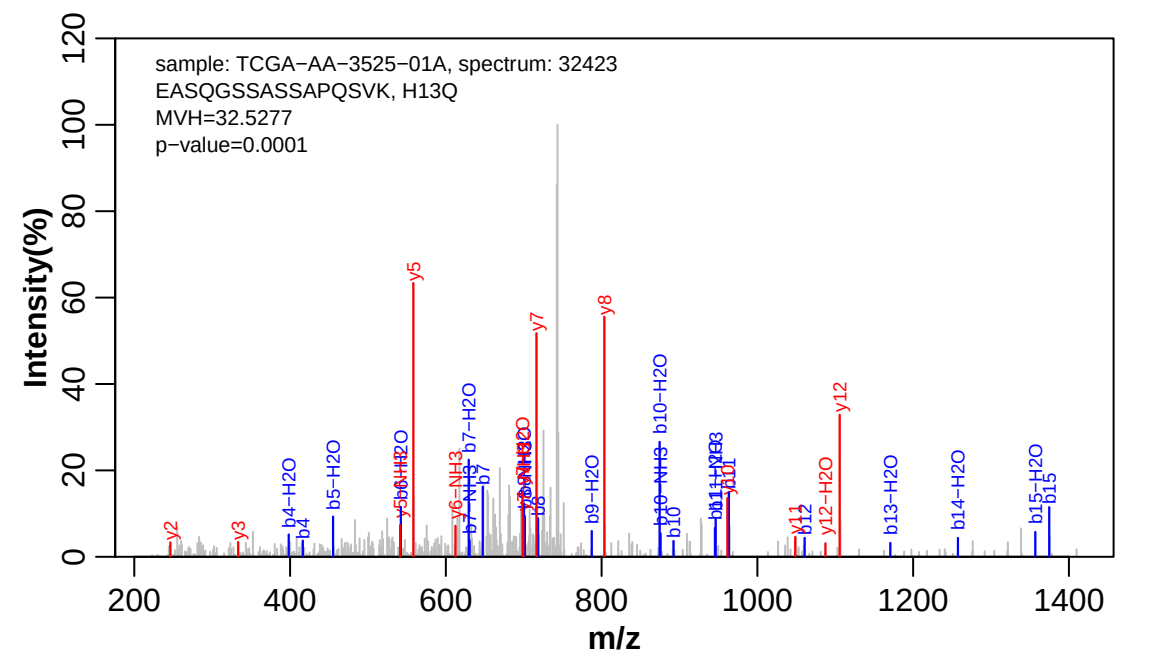

sample: TCGA−AA−3525−01A, spectrum: 107643
DFYVVEPLAFEGTPEQK, I4V
MVH=47.2989
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6−H2O
y6
b6−NH3
b6
y7
b7
y8−NH3
y8
b8
y9
b9
y10
b10
y11−H2O
y11
b11
y12−NH3
y12
b12
b13
y14

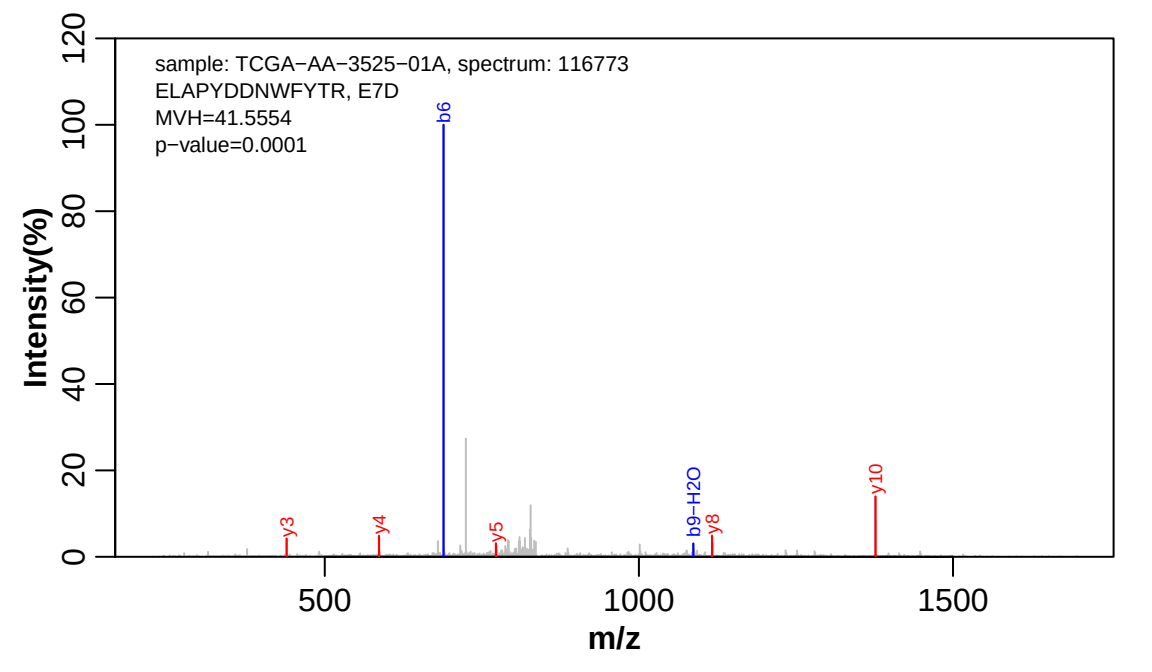

sample: TCGA−AA−3525−01A, spectrum: 56738
DGYGFLNR, N1D
MVH=43.8062
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

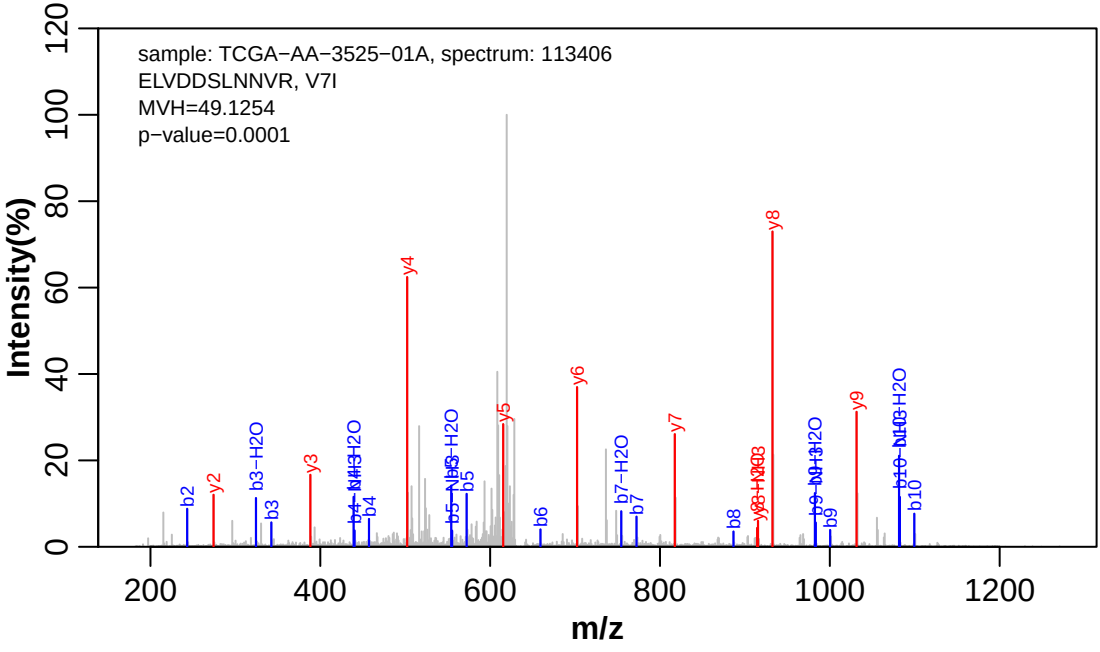

sample: TCGA−AA−3525−01A, spectrum: 97215
DSKEPFSSVELQAALSK, E3K
MVH=47.0731
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6−NH3
b15++
b10++
b14++
b13++
y7
y8
b12++
y2−H2O
y2
b3
y7++
y7++−H2O
y12++−H2O
b10
b9
y8−H2O

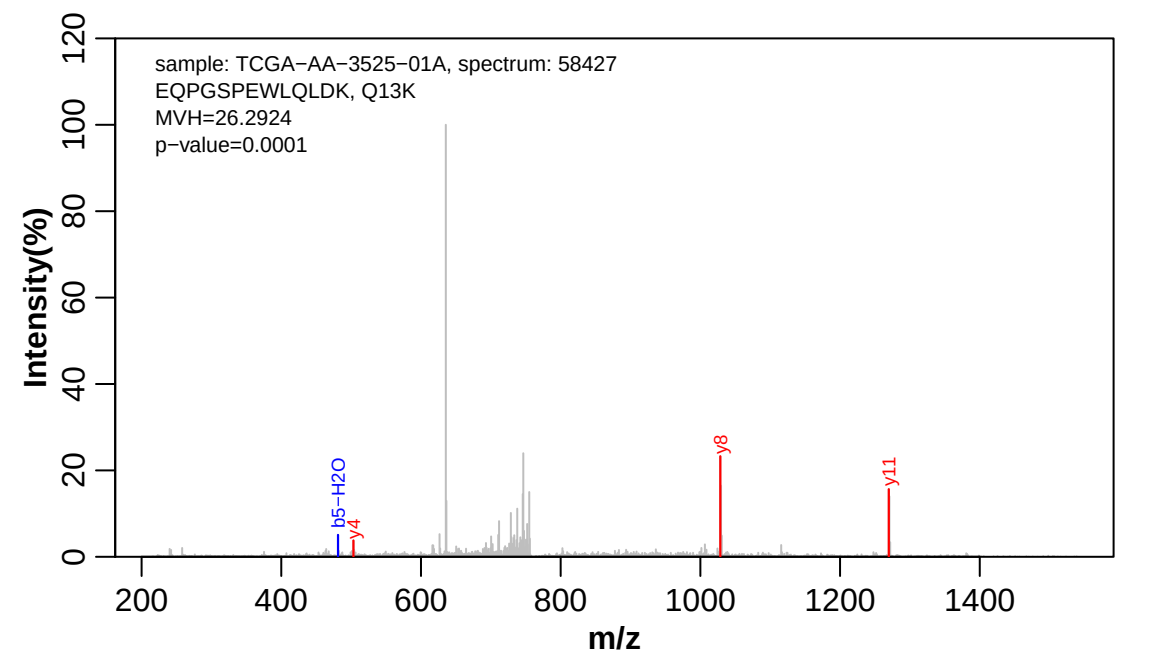

sample: TCGA−AA−3525−01A, spectrum: 74680
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=89.3795
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

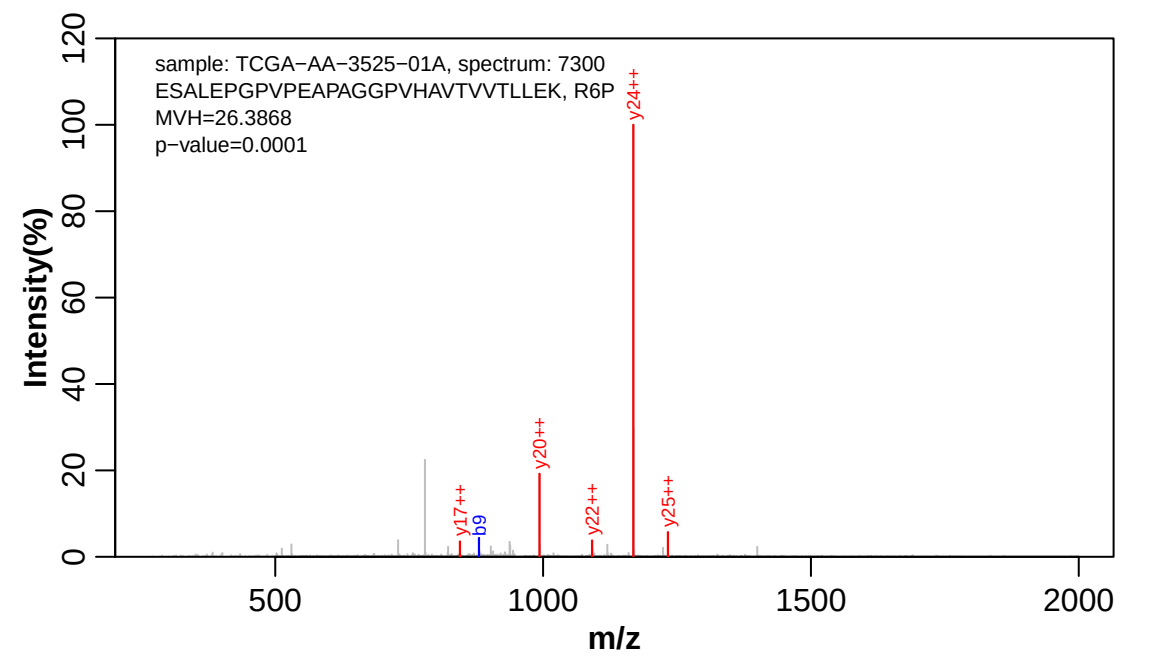

sample: TCGA−AA−3525−01A, spectrum: 85207
DTEEEDFHVDQATTVK, V12A
MVH=27.4013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b5++−NH3
b3−H2O
b4−H2O
b4
b3++−H2O
b3++−NH3
y10++
b5
y6−NH3
y12++
b6−H2O
y13++−H2O
y13++
y14++−H2O
y14++

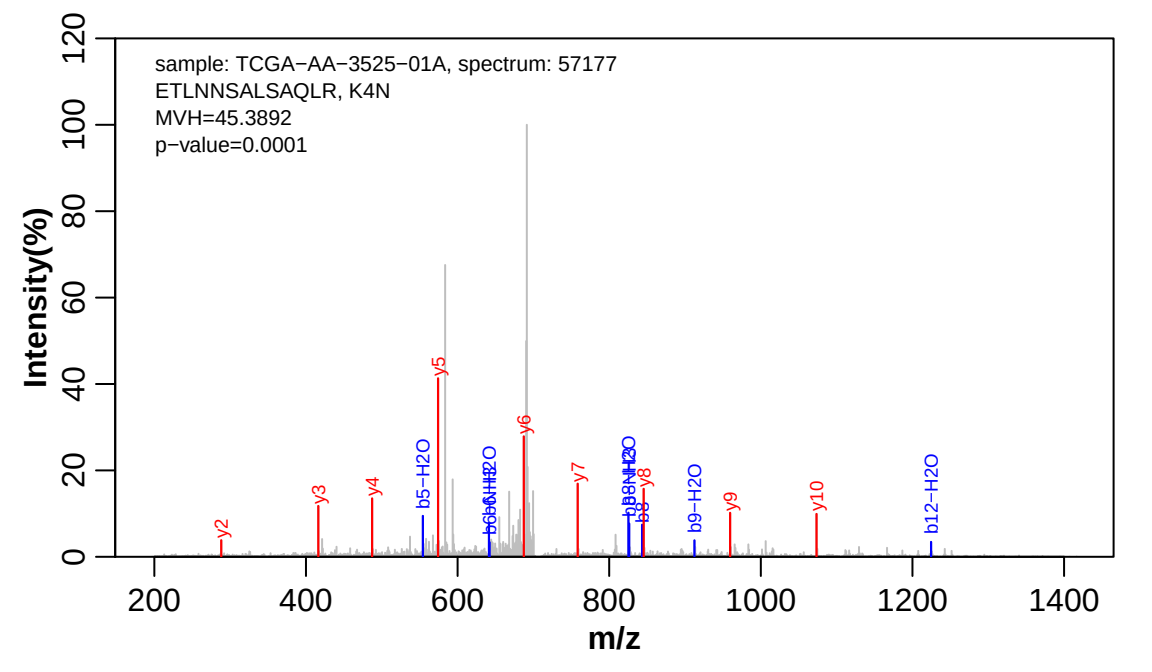

sample: TCGA−AA−3525−01A, spectrum: 32423
EASQGSSASSAPQSVK, H13Q
MVH=32.5277
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b4−H2O
b4
b5−H2O
y5
y5−H2O
y5−NH3
b6−NH3
b7
b7−H2O
y7
y8
b9−H2O
b10−NH3
b10−H2O
b10
y12
y12−H2O
b13−H2O
b14−H2O
b15−H2O
b15

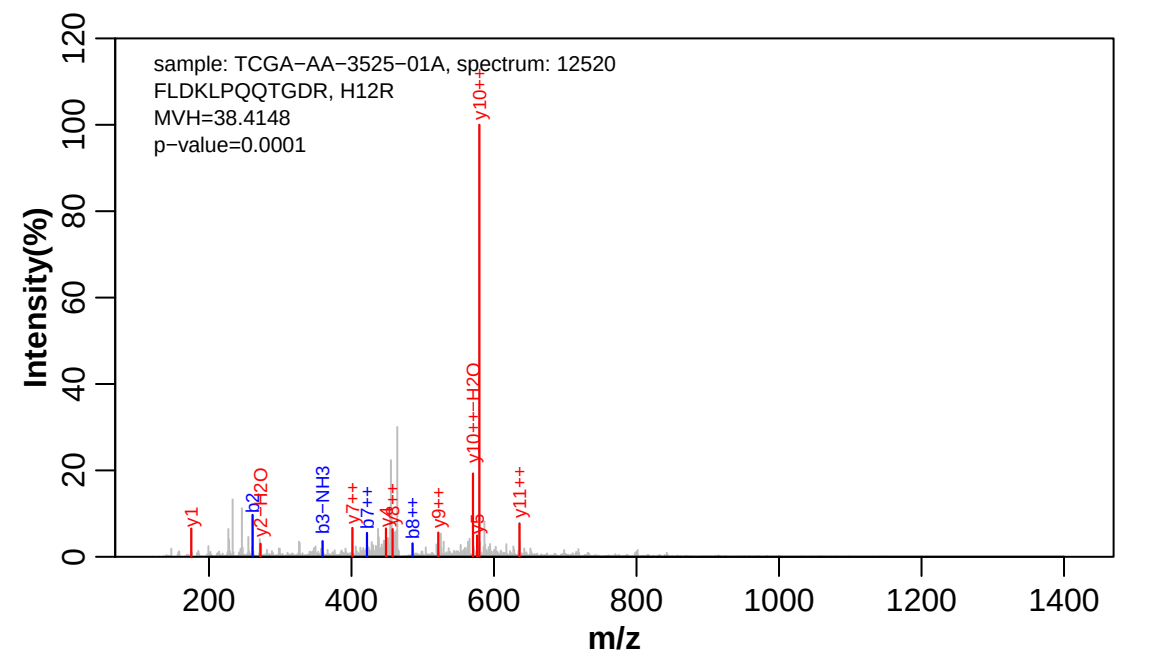

sample: TCGA−AA−3525−01A, spectrum: 116773
ELAPYDDNWFYTR, E7D
MVH=41.5554
p−value=0.0001
b6
y3
y4
y5
b9−H2O
y8
y10
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

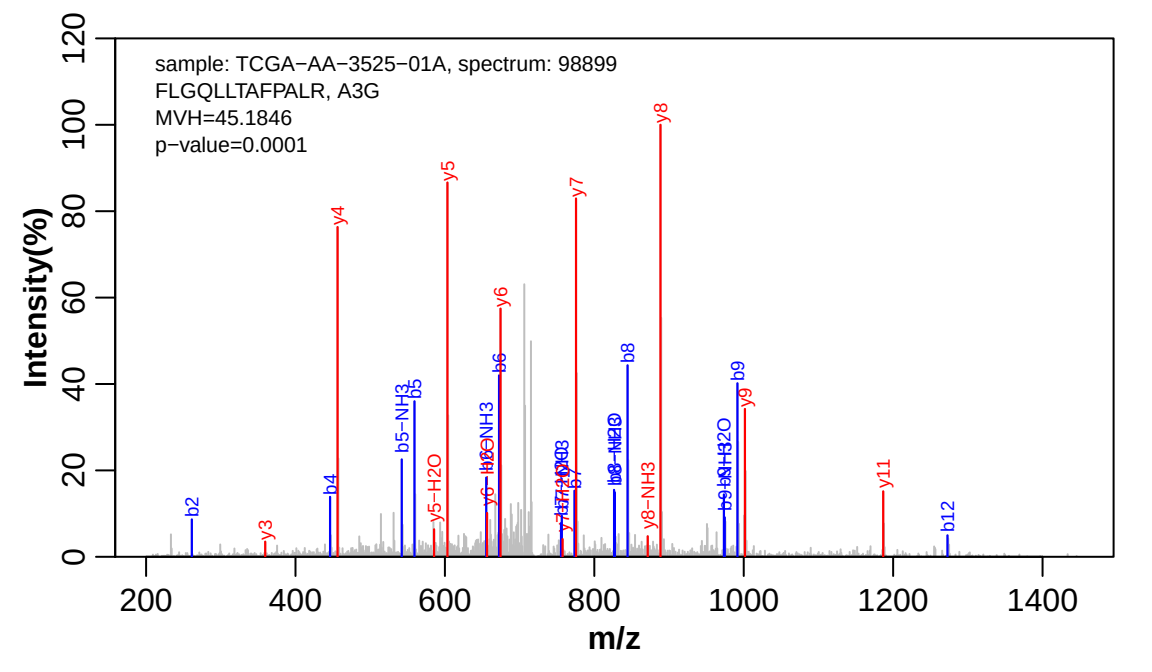

sample: TCGA−AA−3525−01A, spectrum: 113406
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
b8
y8
b9−H2O
b9
y9
b10−H2O
b10

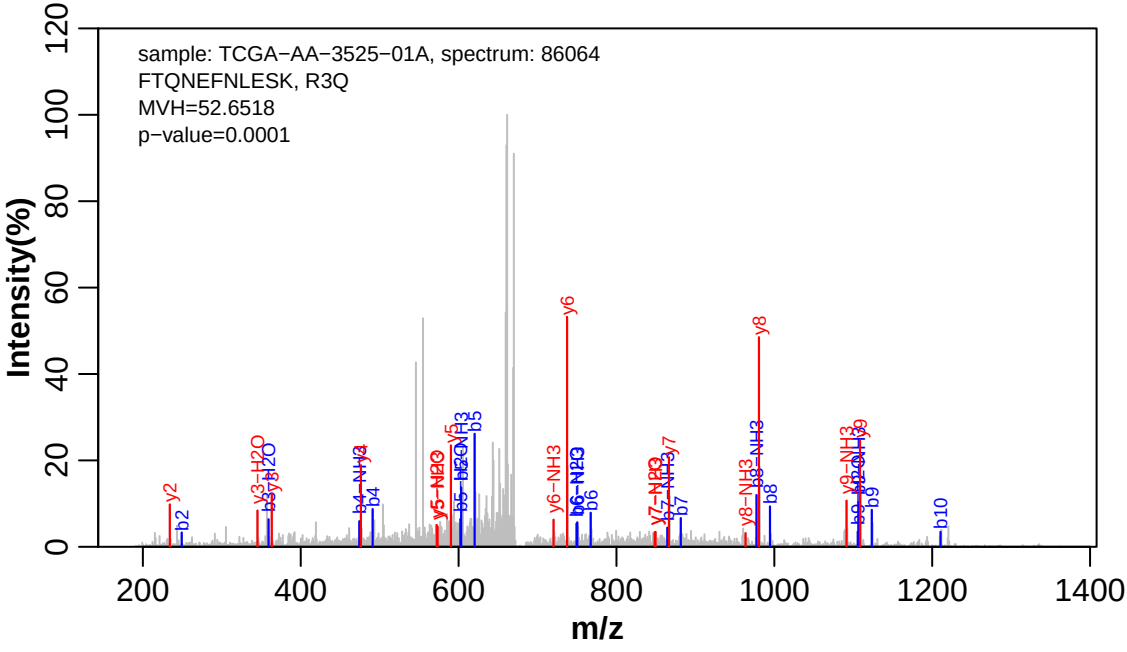

sample: TCGA−AA−3525−01A, spectrum: 58427
EQPGSPEWLQLDK, Q13K
MVH=26.2924
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

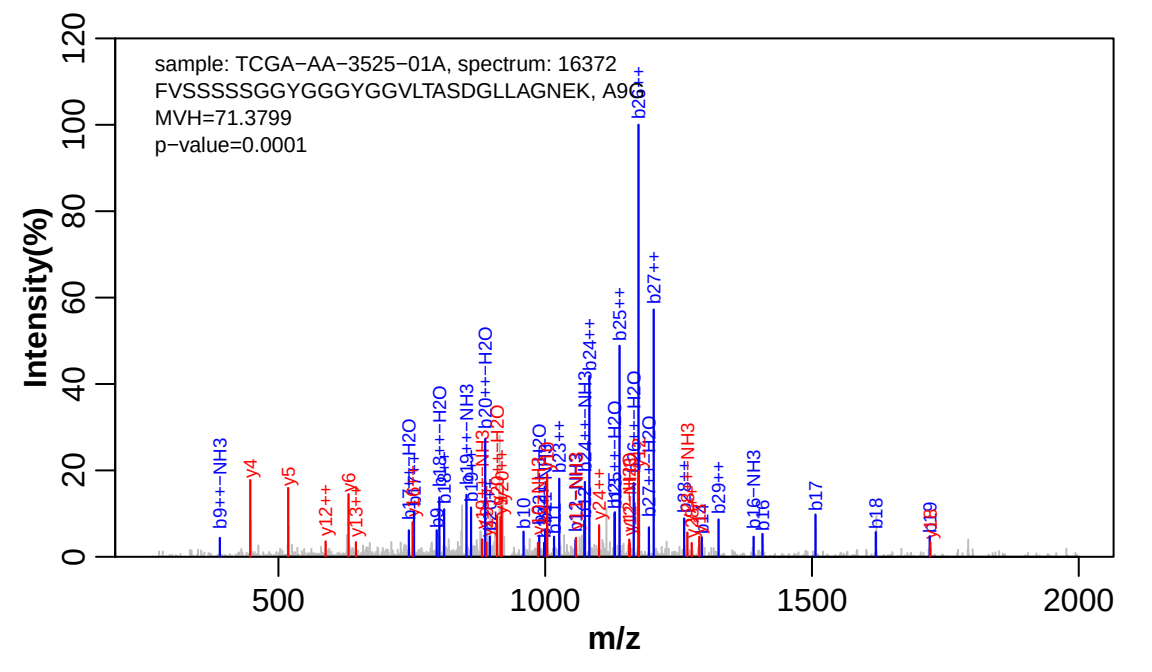

sample: TCGA−AA−3525−01A, spectrum: 7300
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=26.3868
p−value=0.0001
y24++
y20++
y17++
b9
y22++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

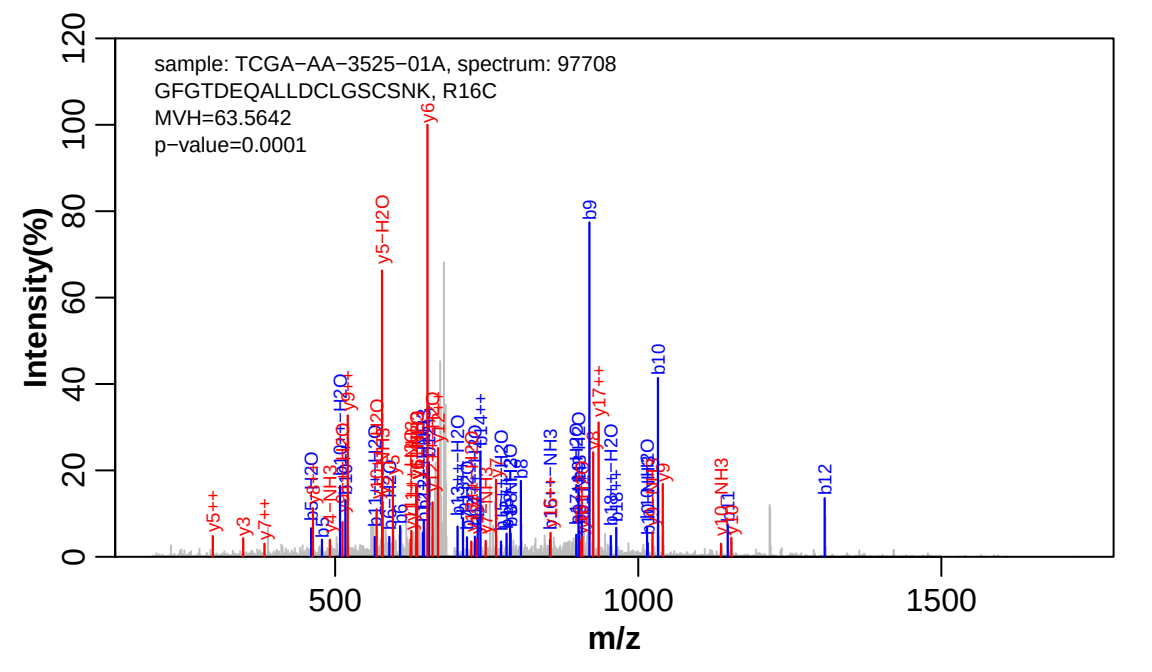

sample: TCGA−AA−3525−01A, spectrum: 57177
ETLNNSALSAQLR, K4N
MVH=45.3892
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
b5−H2O
y5
y6
y7
y8
b9−H2O
y9
y10
b12−H2O

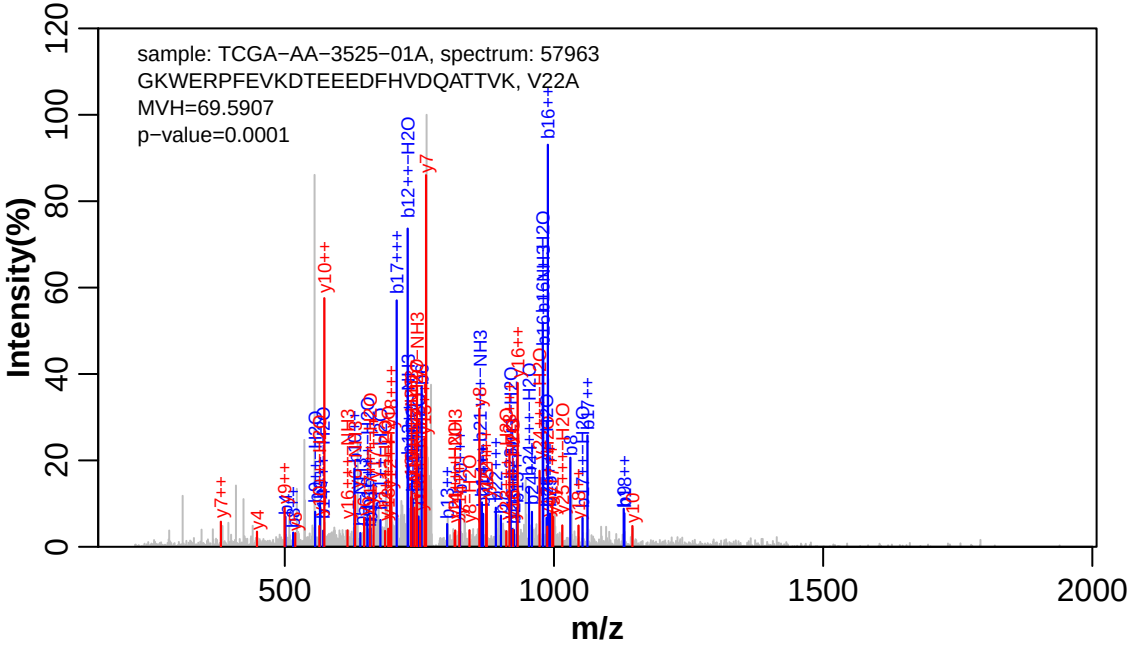

sample: TCGA−AA−3525−01A, spectrum: 12520
FLDKLPQQTGDR, H12R
MVH=38.4148
p−value=0.0001
Intensity(%)
m/z
y1
b2
y2−H2O
b3−NH3
y7++
b7++
y8++
b8++
y9++
y10++−H2O
y10++
y11++

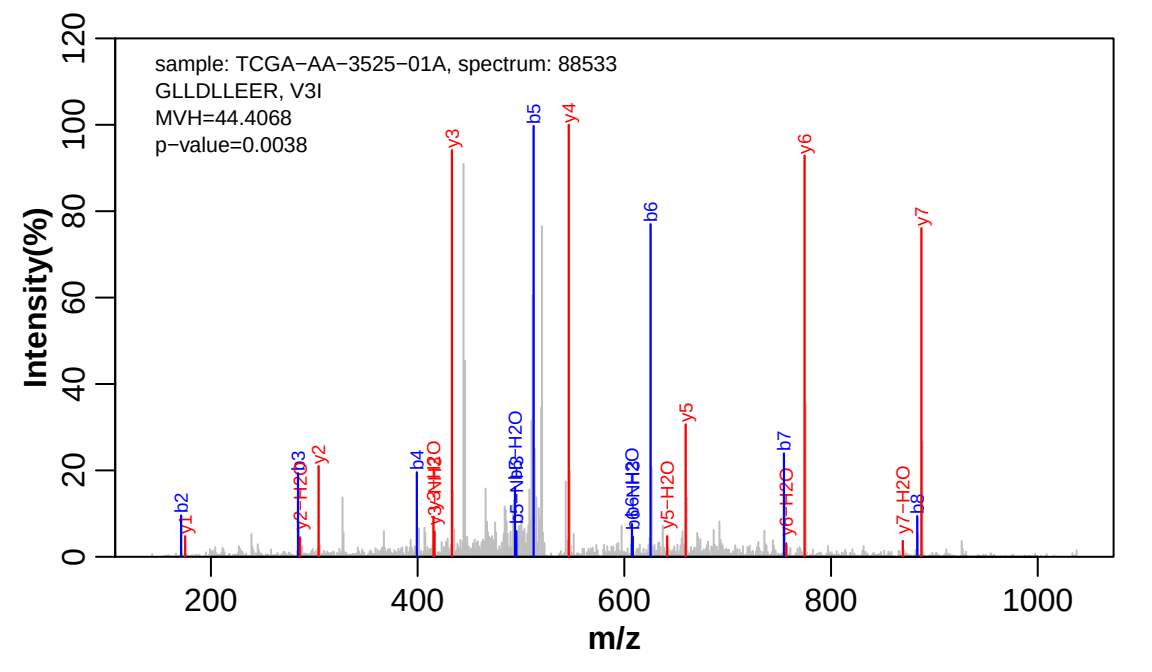

sample: TCGA−AA−3525−01A, spectrum: 98899
FLGQLLTAFPALR, A3G
MVH=45.1846
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b4
y4
b5−NH3
b5
y5−H2O
y5
y6
b6
y8−NH3
b8
y8
b9
y9
y11
b12

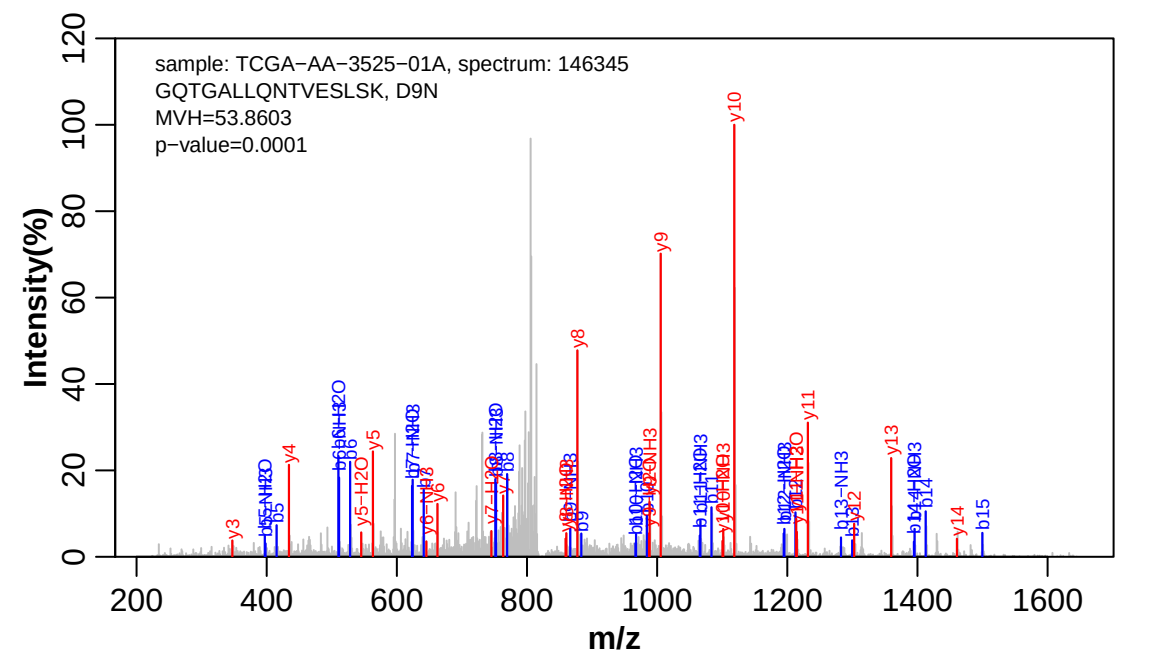

sample: TCGA−AA−3525−01A, spectrum: 86064
FTQNEFNLESK, R3Q
MVH=52.6518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b2
y3−H2O
b3−H2O
y3
b3
b4−NH3
b4
y5−NH3
y5
b5−H2O
b5−NH3
b5
y6
y6−NH3
b6−NH3
b6
y7−NH3
y7
b7
y8
y8−NH3
b8−NH3
b8
y9−NH3
b9−H2O
b9
b10

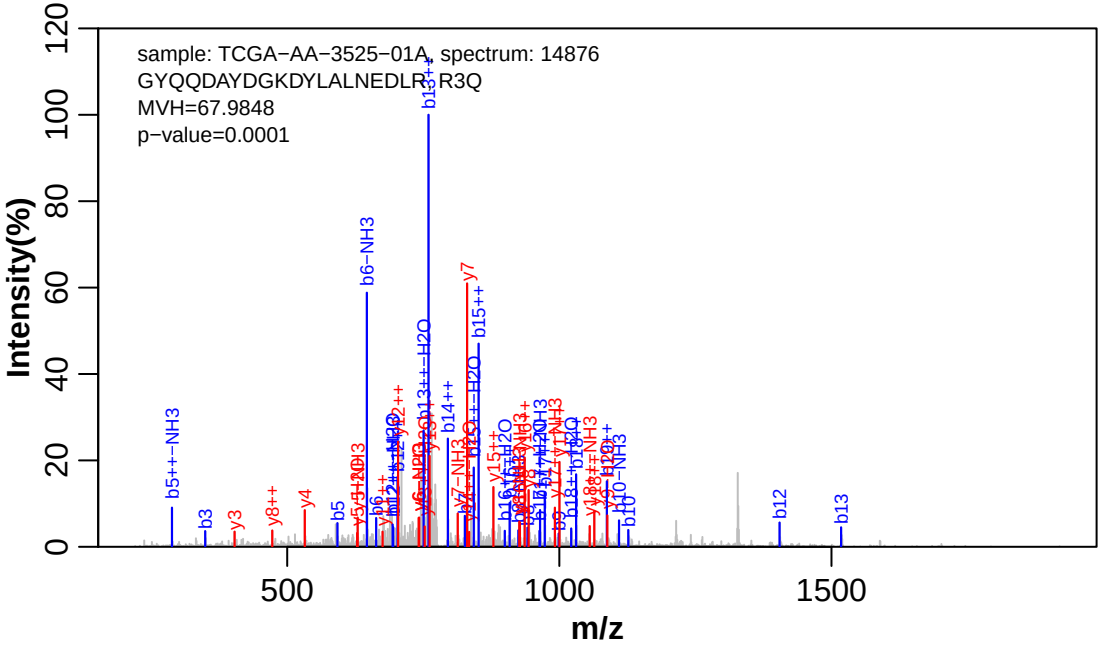

sample: TCGA−AA−3525−01A, spectrum: 16372
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=71.3799
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y12++
y13++
y6
b17++−H2O
b17++
b9
b10
b11
b23++
b12−NH3
b24++−NH3
b24++
y24++
b25++
b27++
b29++
b16−NH3
b17
b18
b19
b26++

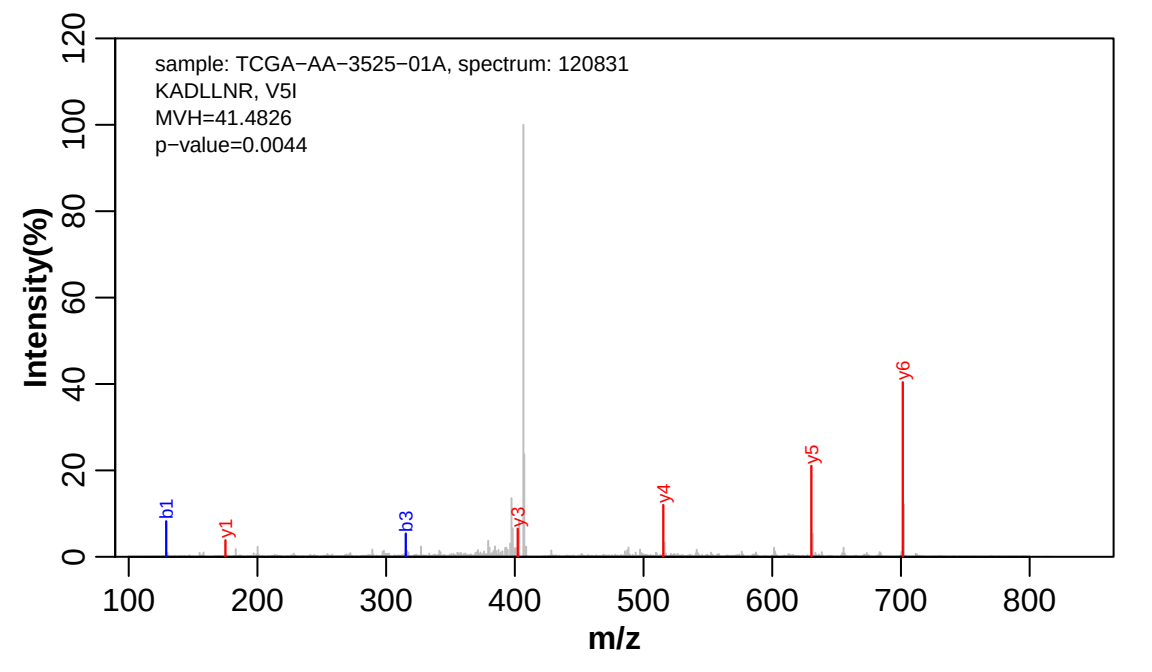

sample: TCGA−AA−3525−01A, spectrum: 97708
GFGTDEQALLDCLGSCSNK, R16C
MVH=63.5642
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y5++
y3
y7++
y17++
y10−NH3

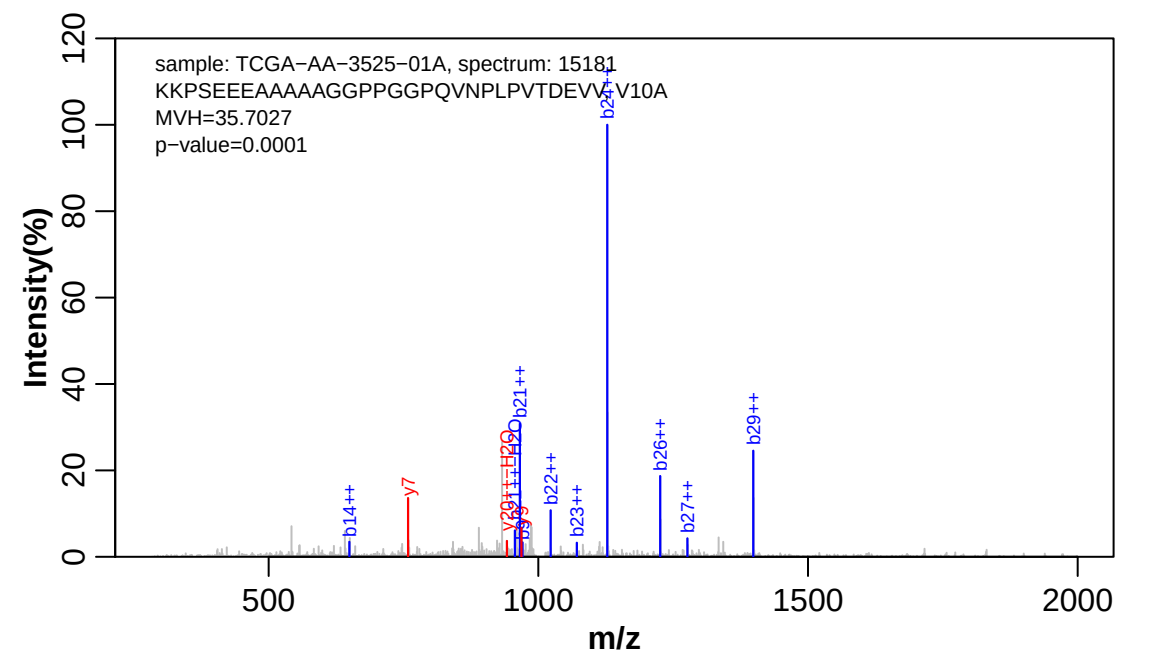

sample: TCGA−AA−3525−01A, spectrum: 57963
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=69.5907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7++
y4
y10++
b17+++
b12++−H2O
y7
b16++
b16−NH3−H2O
b16−NH3
b16−H2O
b16
b07++
b08++
y10+

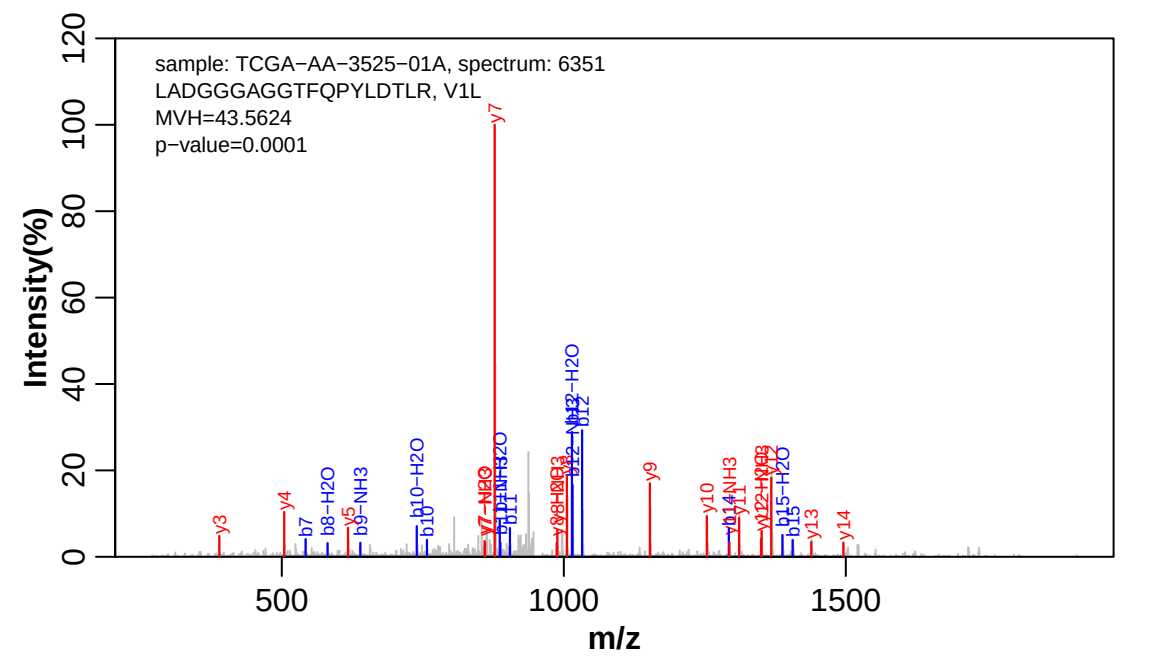

sample: TCGA−AA−3525−01A, spectrum: 88533
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2−H2O
y3
b4
b5
y4
b6
y5
y5−H2O
b7
y6
y6−H2O
y7
y7−H2O
b8

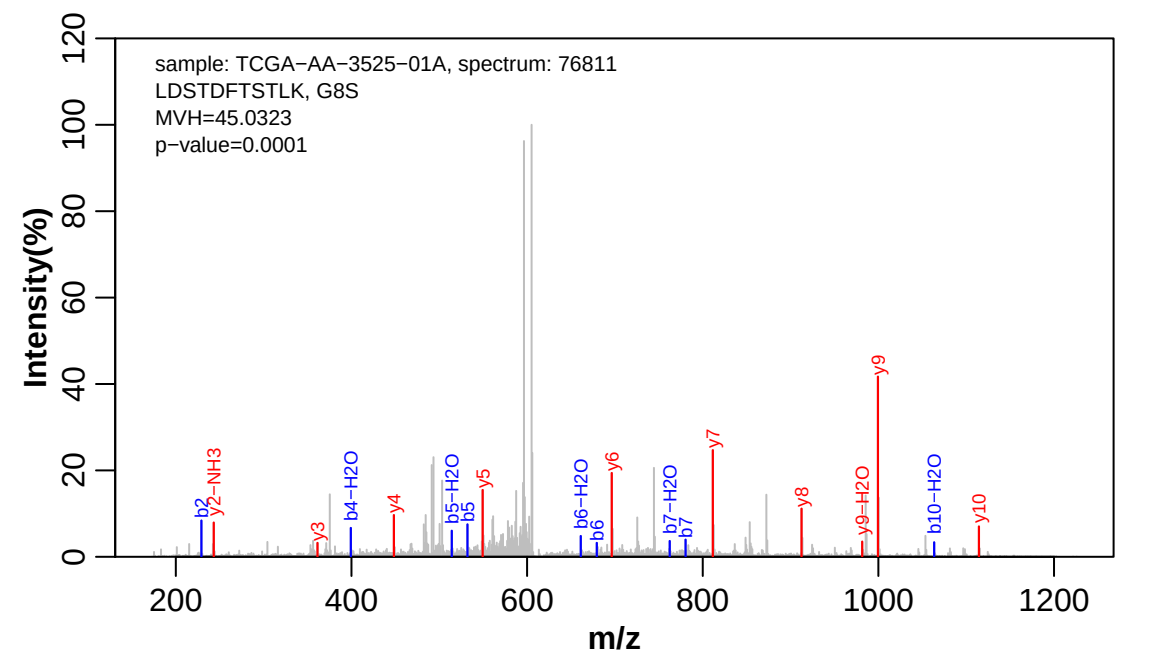

sample: TCGA−AA−3525−01A, spectrum: 146345
GQTGALLQNTVESLSK, D9N
MVH=53.8603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y4
y5
y3
y14
b15

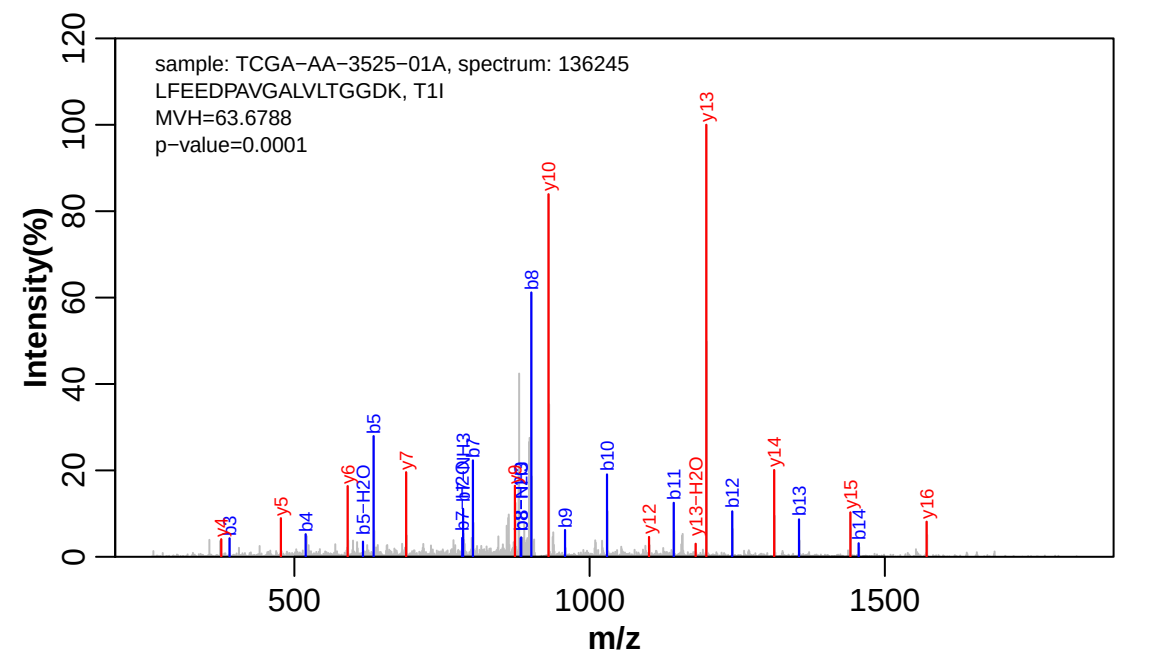

sample: TCGA−AA−3525−01A, spectrum: 14876
GYQQDAYDGKDYLALNEDLRSR3Q
MVH=67.9848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
b6−NH3
y7
b15++
b5++−NH3
b3
y3
y8++
y4
b5
b14++
b13++−H2O
b12
b13
b10−NH3

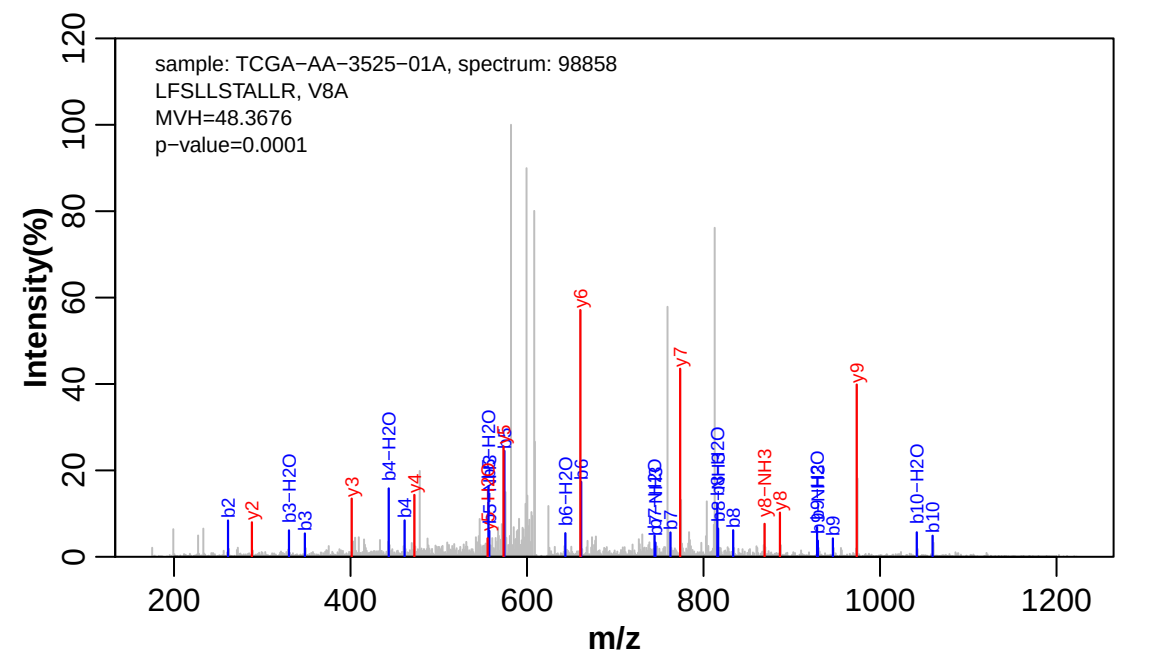

sample: TCGA−AA−3525−01A, spectrum: 120831
KADLLNR, V5I
MVH=41.4826
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b1
y1
b3
y3
y4
y5
y6

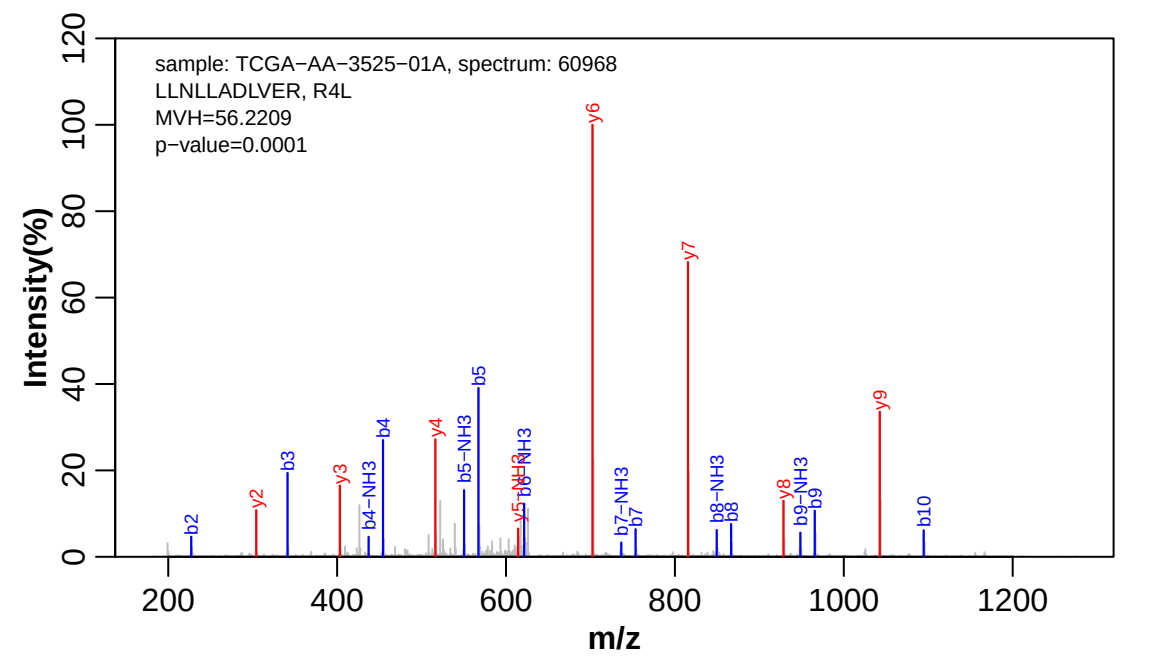

sample: TCGA−AA−3525−01A, spectrum: 15181
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=35.7027
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b14++
y7
b21++
b22++
b23++
b24++
b26++
b27++
b29++

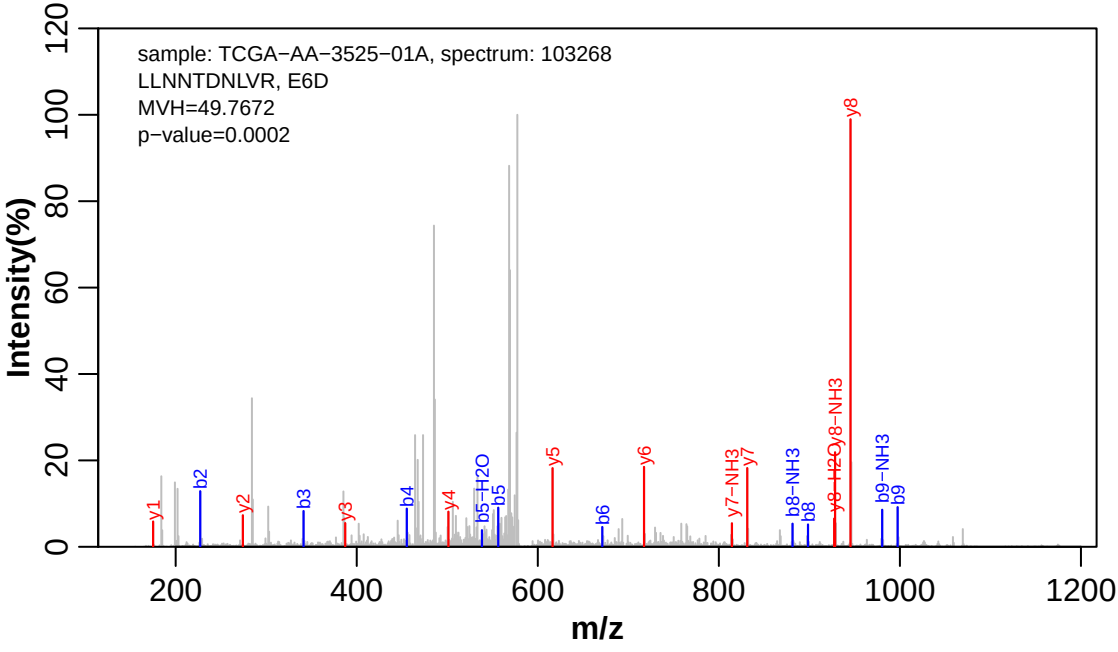

sample: TCGA−AA−3525−01A, spectrum: 6351
LADGGGAGGTFQPYLDTLR, V1L
MVH=43.5624
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b7
b8−H2O
y5
b9−NH3
b10−H2O
b10
y7
y9
y10
y11
b15−H2O
b15
y13
y14

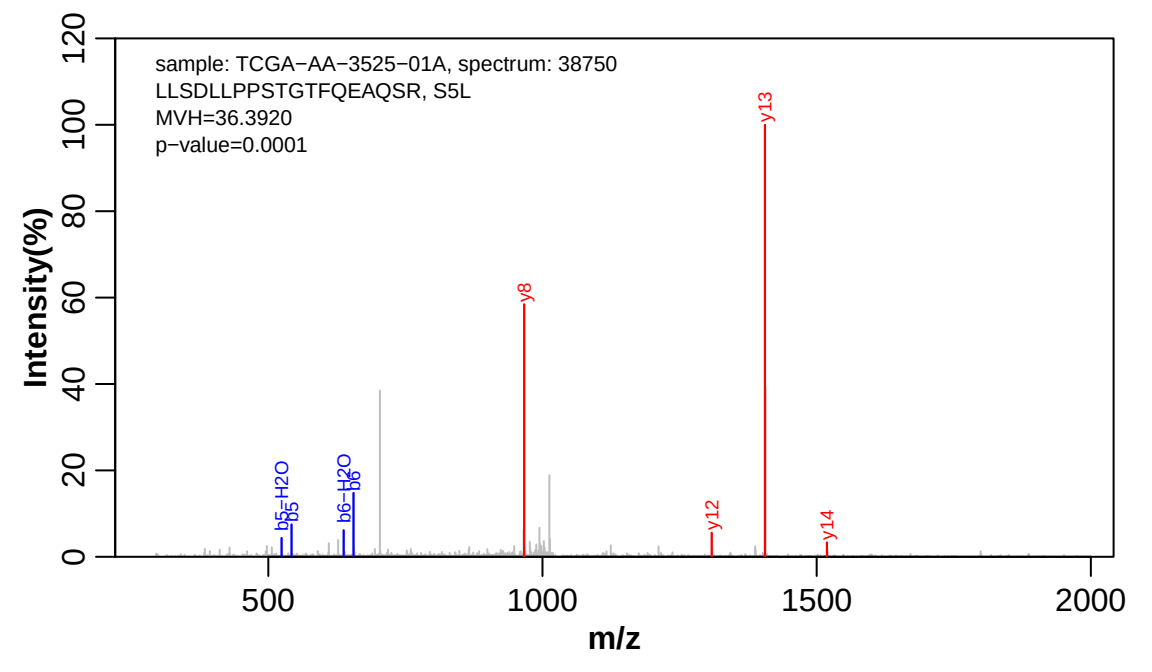

sample: TCGA−AA−3525−01A, spectrum: 76811
LDSTDFTSTLK, G8S
MVH=45.0323
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2−NH3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9
y9−H2O
b10−H2O
y10

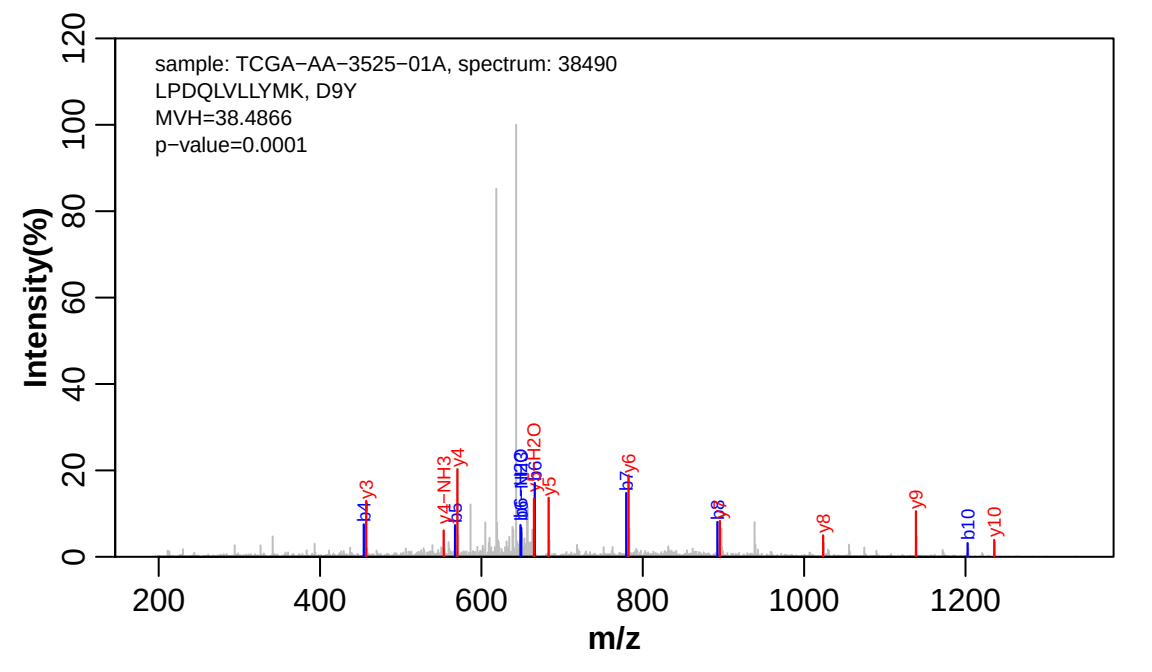

sample: TCGA−AA−3525−01A, spectrum: 136245
LFEEDPAVGALVLTGGDK, T1I
MVH=63.6788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y13
y10
b8
y5
b4
b5
b5−H2O
y6
y7
b10
b11
y13−H2O
b12
y14
b13
y15
b14
y16
b9
y12

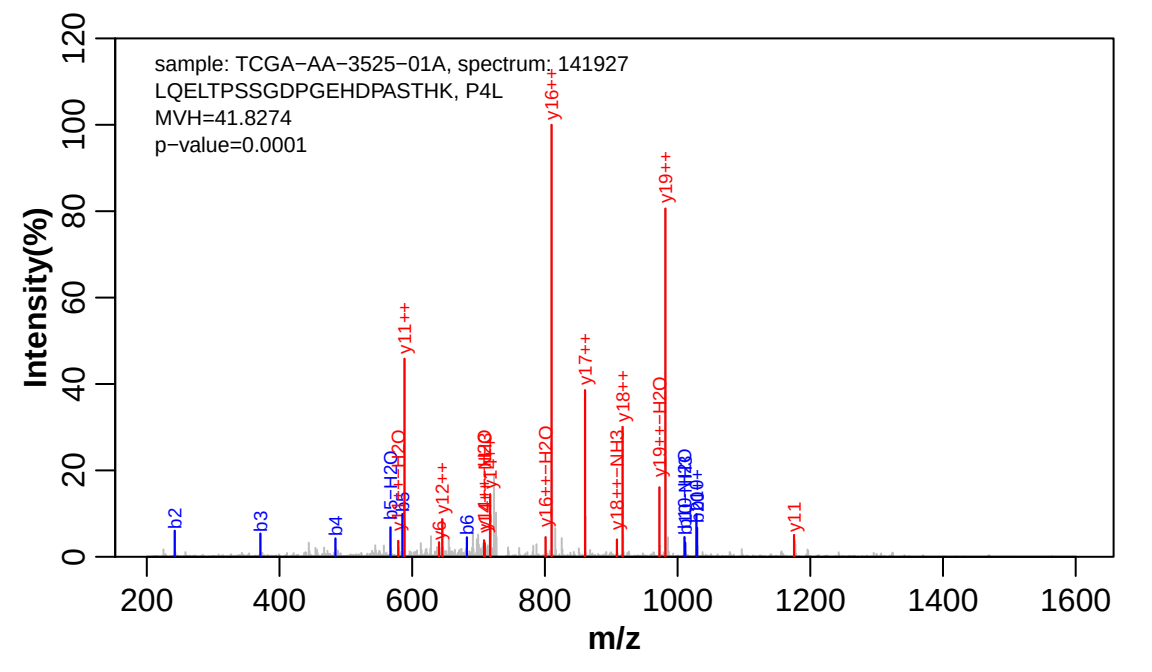

sample: TCGA−AA−3525−01A, spectrum: 98858
LFSLLSTALLR, V8A
MVH=48.3676
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5
b6−H2O
b6
y6
y7
b8
y8−NH3
y8
y9
b10−H2O
b10

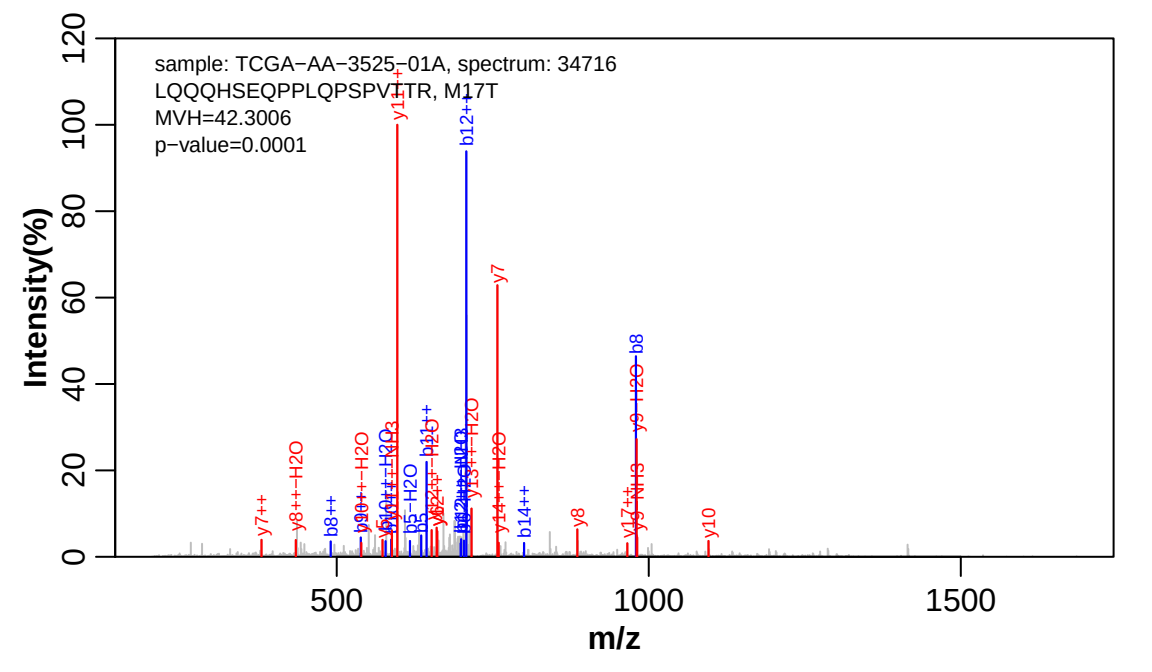

sample: TCGA−AA−3525−01A, spectrum: 60968
LLNLLADLVER, R4L
MVH=56.2209
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y2
y3
y4
y8
b2
b3
b4
b5
b4−NH3
b5−NH3
b6
b7−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

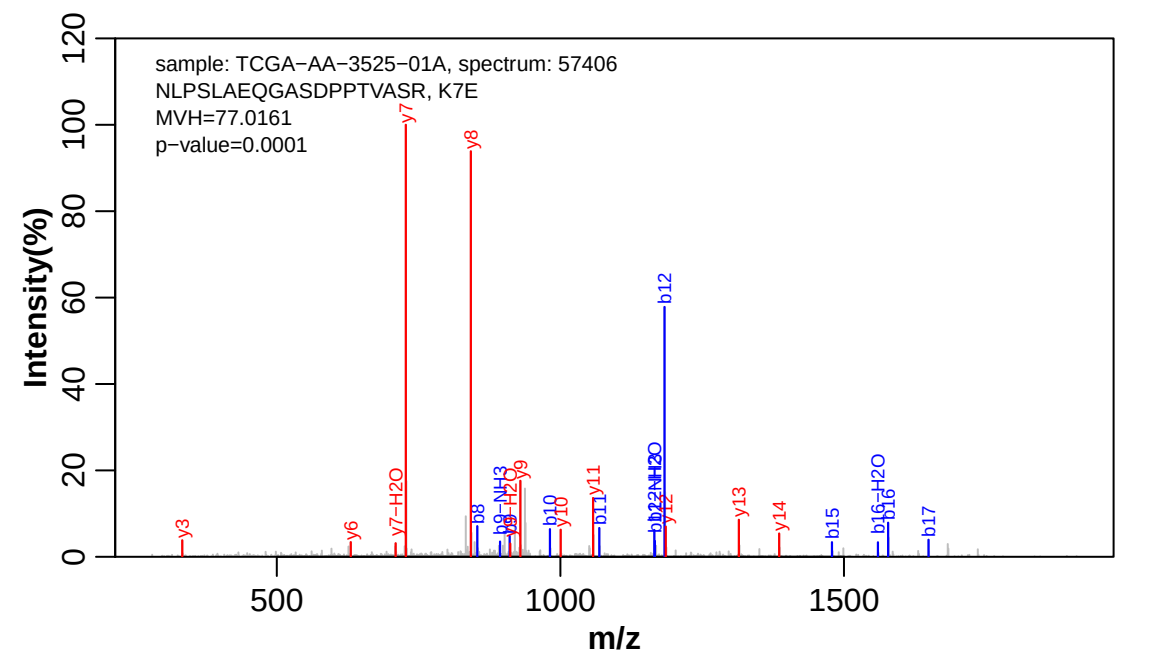

sample: TCGA−AA−3525−01A, spectrum: 103268
LLNNTDNLVR, E6D
MVH=49.7672
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b2
y2
b3
y3
b4
y4
b5−H2O
b5
y5
b6
y6
y7−NH3
y7
b8−NH3
b8
y8−H2O
y8−NH3
y8
b9−NH3
b9

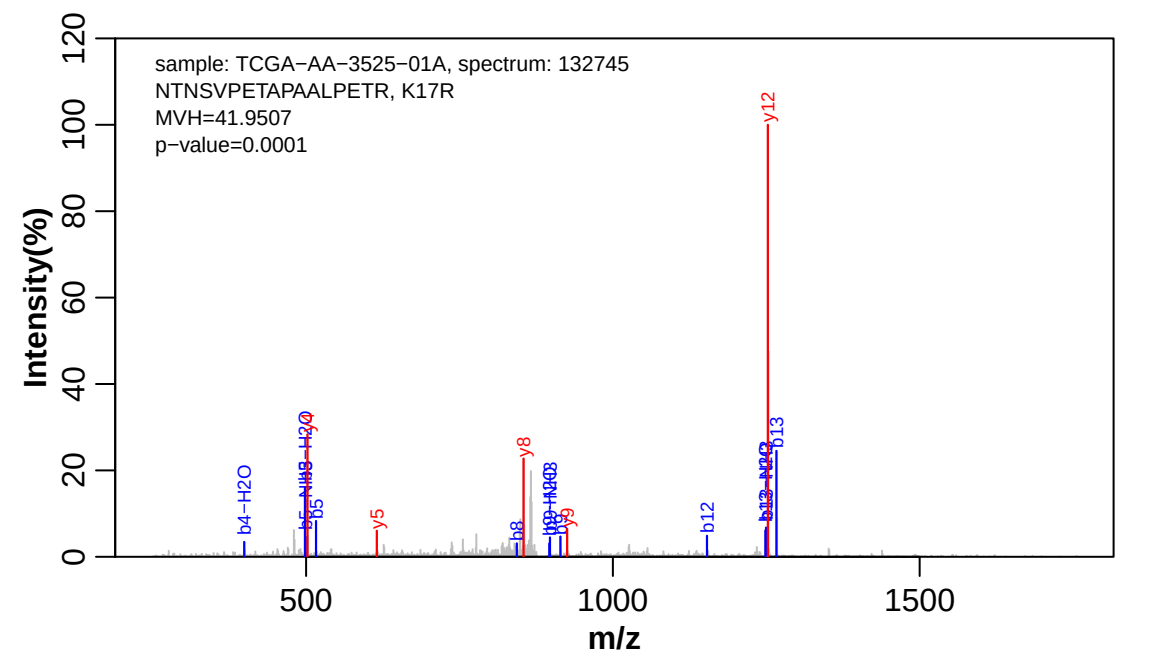

sample: TCGA−AA−3525−01A, spectrum: 38750
LLSDLLPPSTGTFQEAQSR, S5L
MVH=36.3920
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5−H2O
b5
b6−H2O
b6
y8
y12
y13
y14

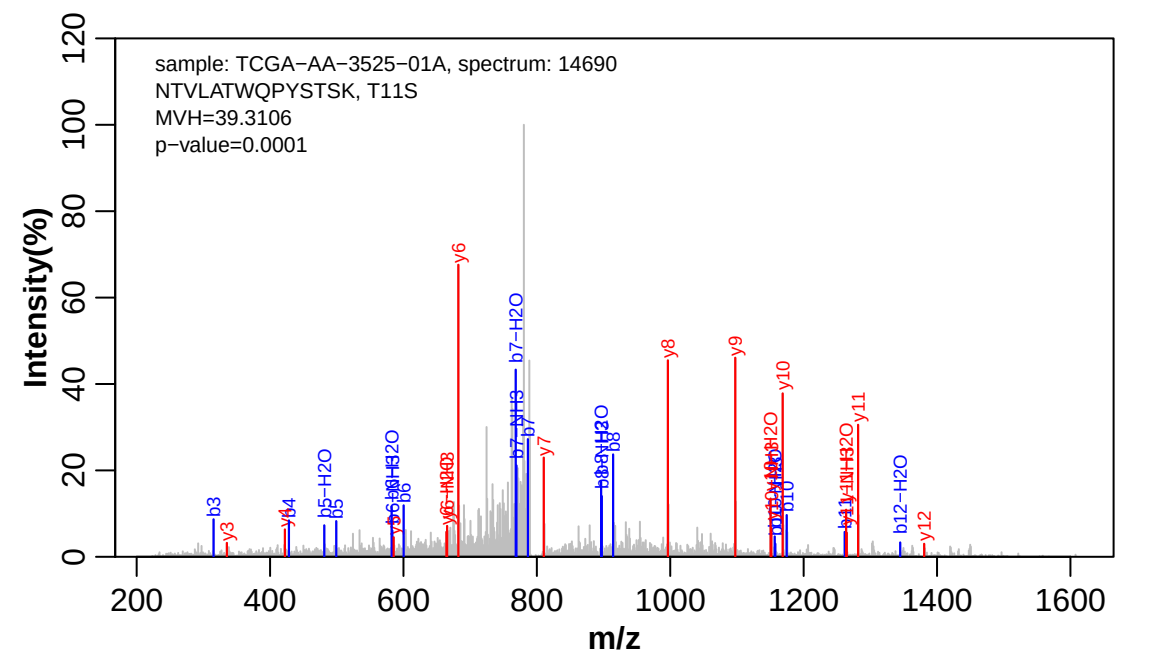

sample: TCGA−AA−3525−01A, spectrum: 38490
LPDQLVLLYMK, D9Y
MVH=38.4866
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4
y3
y4−NH3
y4
b5
b6−NH3
b6−H2O
b6
y6−H2O
y6
y5
b7
y6
b8
y8
y8
y9
b10
y10

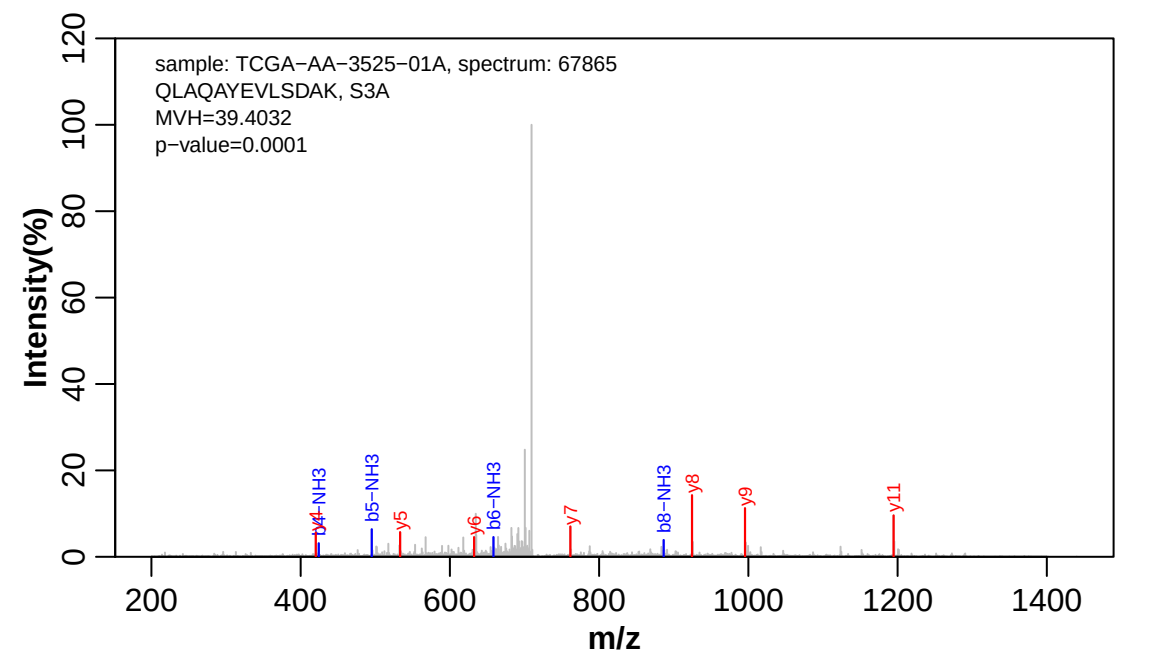

sample: TCGA−AA−3525−01A, spectrum: 141927
LQELTPSSGDPGEHDPASTHK, P4L
MVH=41.8274
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3
b4
b5−H2O
y11++
y6
y12++
b6
y16++−H2O
y16++
y17++
y18++−NH3
y18++
y19++−H2O
y19++
y11

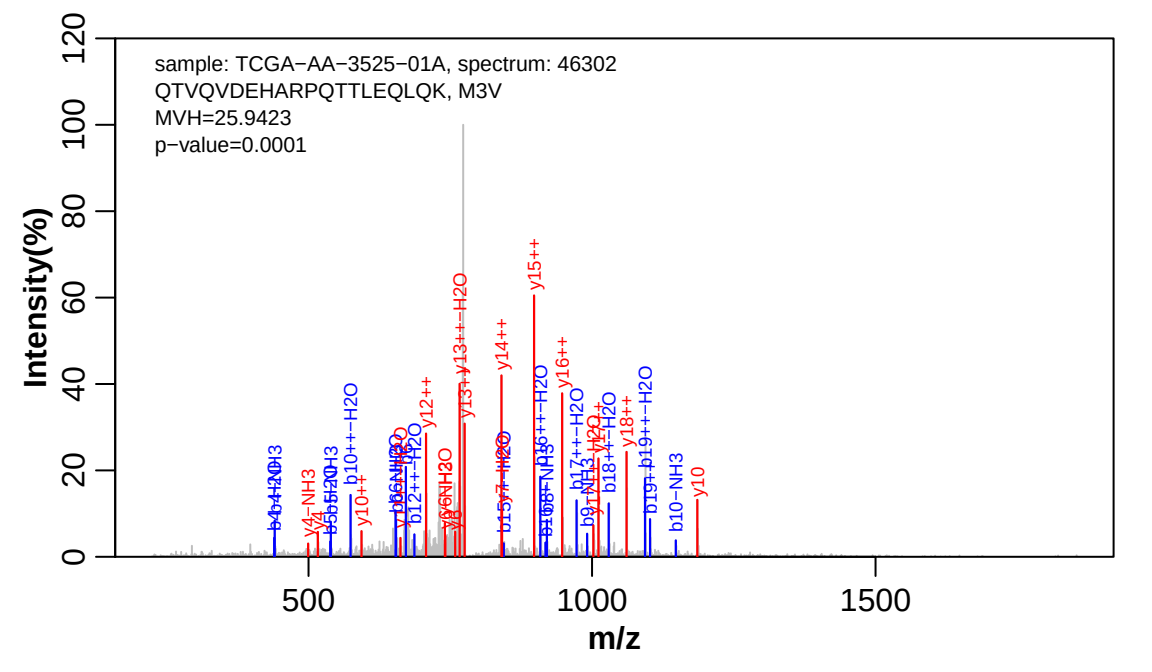

sample: TCGA−AA−3525−01A, spectrum: 34716
LQQQHSEQPPLQPSPVTTR, M17T
MVH=42.3006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7++
y8++−H2O
b8++
y7
y8
y14++−H2O
b14++
y9−H2O−b8
y10

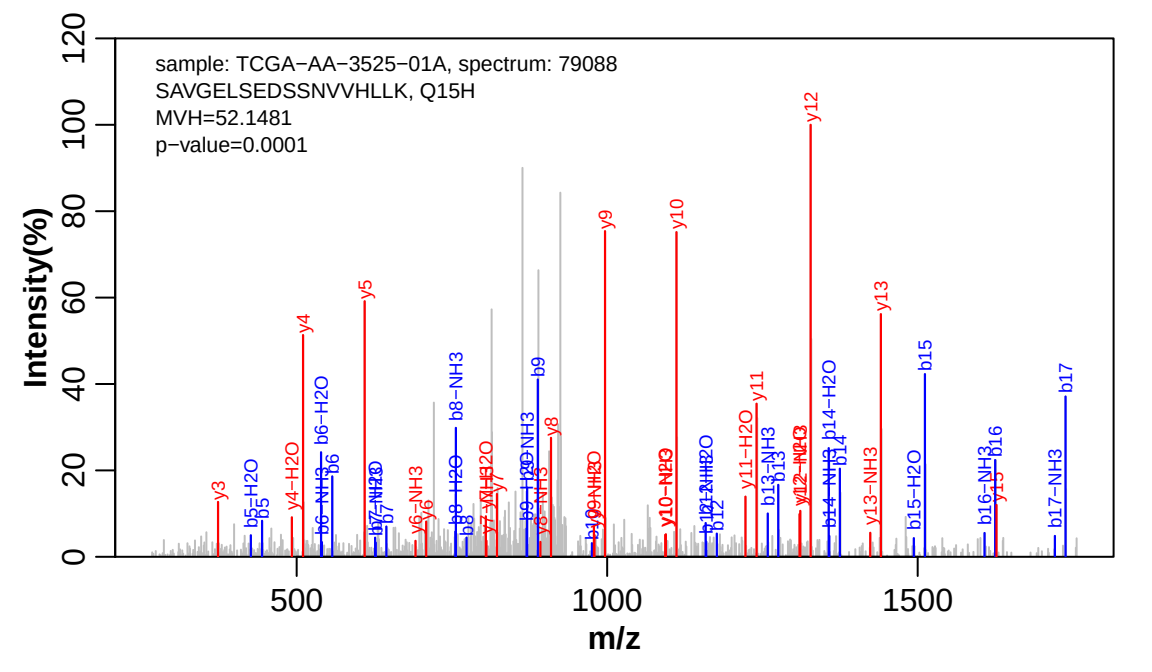

sample: TCGA−AA−3525−01A, spectrum: 57406
NLPSLAEQGASDPPTVASR, K7E
MVH=77.0161
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y6
y7−H2O
y7
b8
b8−NH3
y8
b8−H2O
y9
b10
y10
y11
b11
b12
b12−NH3
b12−H2O
y12
y13
y14
b15
b16−H2O
b16
b17

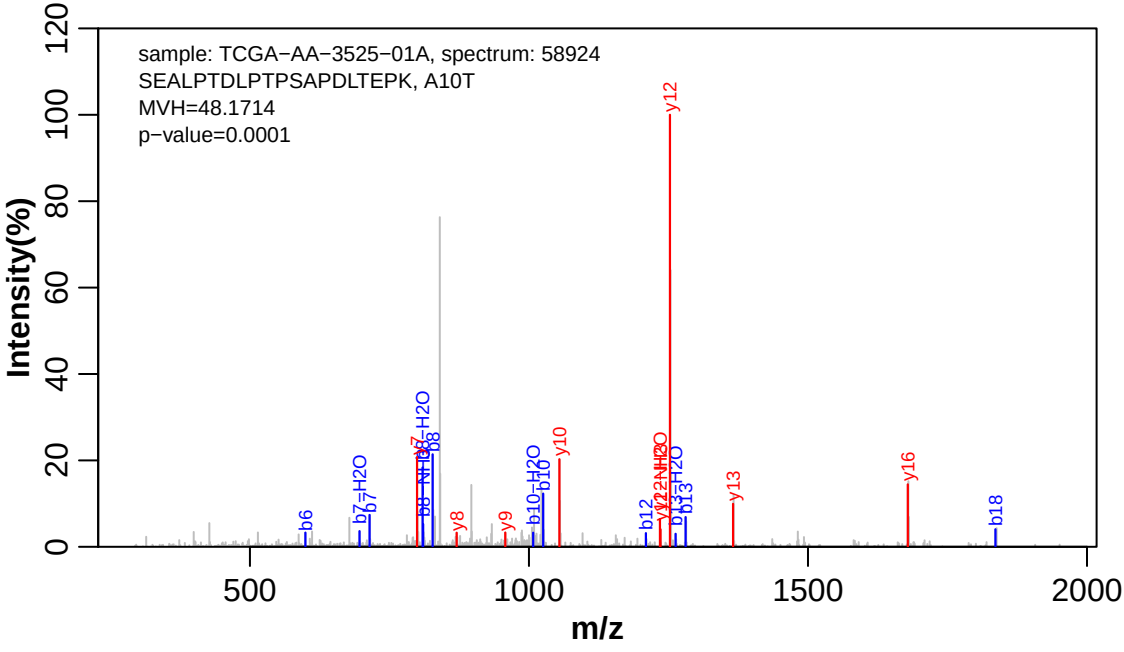

sample: TCGA−AA−3525−01A, spectrum: 132745
NTNSVPETAPAALPETR, K17R
MVH=41.9507
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b13
y8
y5
b12
b4−H2O
b5

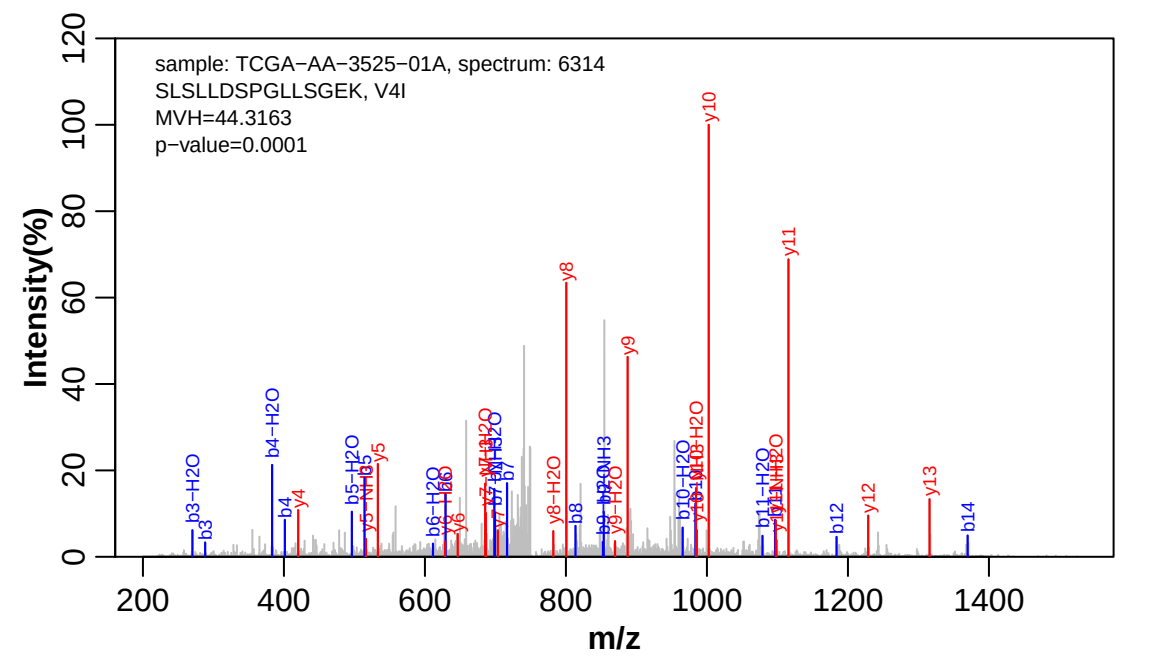

sample: TCGA−AA−3525−01A, spectrum: 14690
NTVLATWQPYSTSK, T11S
MVH=39.3106
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
y4
b5−H2O
b5
b6
y6
y6−NH3
b7−NH3
b7−H2O
b7
y7
y8
b8
y9
y10
b10
y11
b11−NH3−H2O
b12−H2O
y12

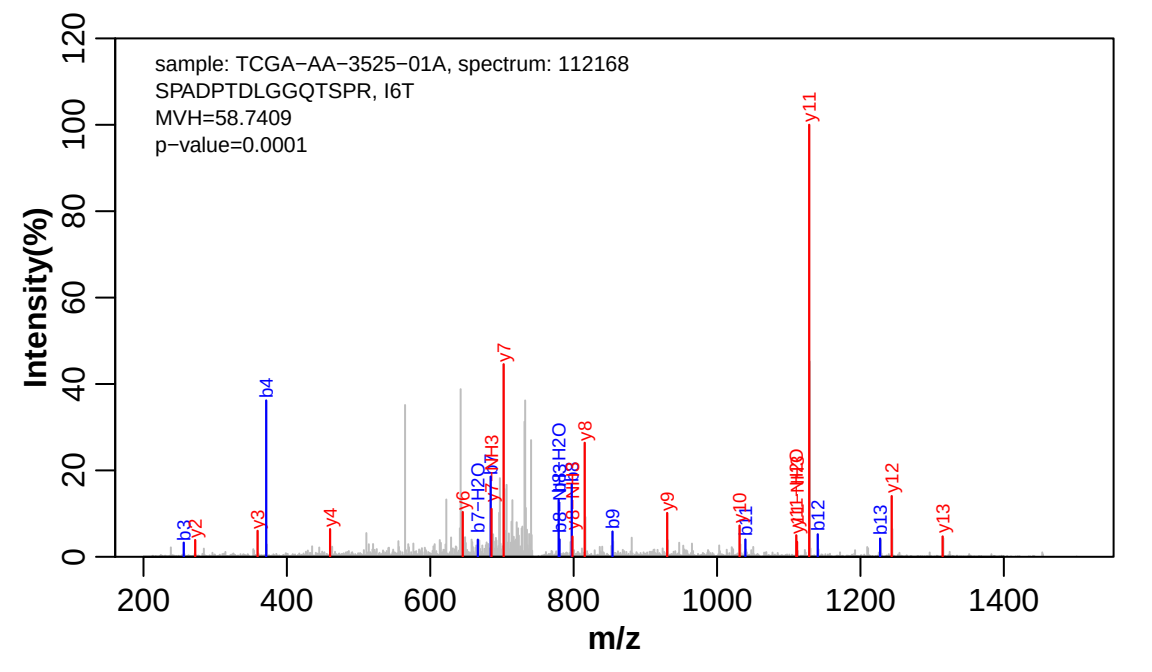

sample: TCGA−AA−3525−01A, spectrum: 67865
QLAQAYEVLSDAK, S3A
MVH=39.4032
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−NH3
b5−NH3
y5
y6
b6−NH3
y7
b8−NH3
y8
y9
y11

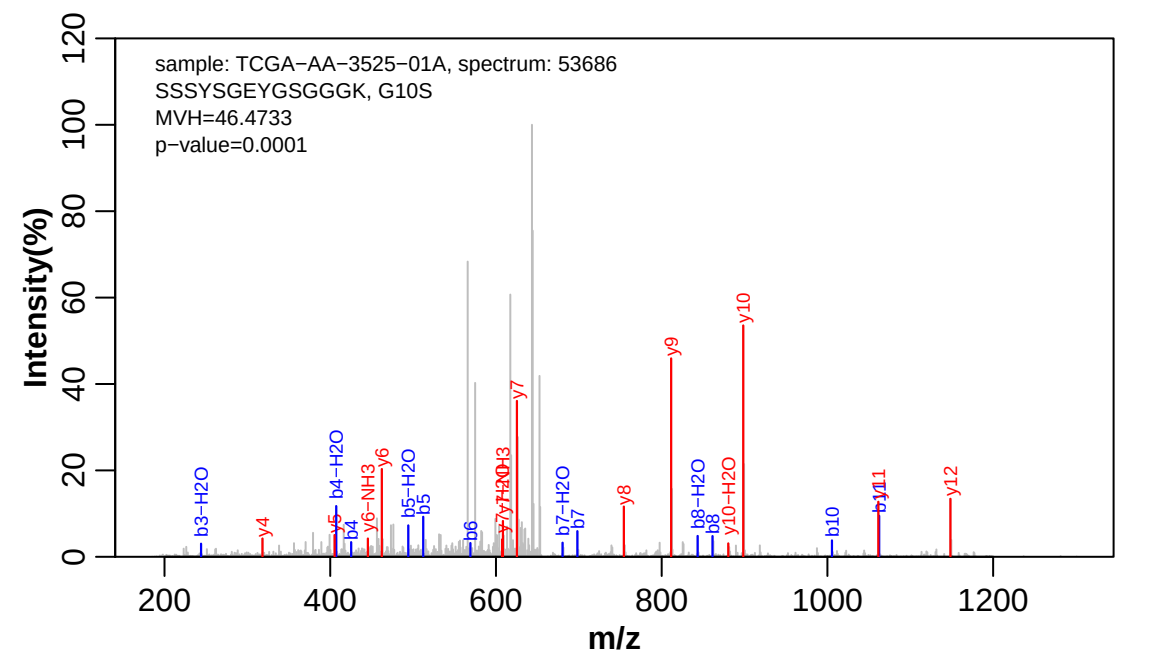

sample: TCGA−AA−3525−01A, spectrum: 46302
QTVQVDEHARPQTTLEQLQK, M3V
MVH=25.9423
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4−NH3
y4
b5−H2O
b10++−H2O
y10++
y12++
y13++−H2O
y14++
y15++
b15++−H2O
b16−NH3
y16++
b17++−H2O
b18++−H2O
y18++
b19++−H2O
b10−NH3
y10

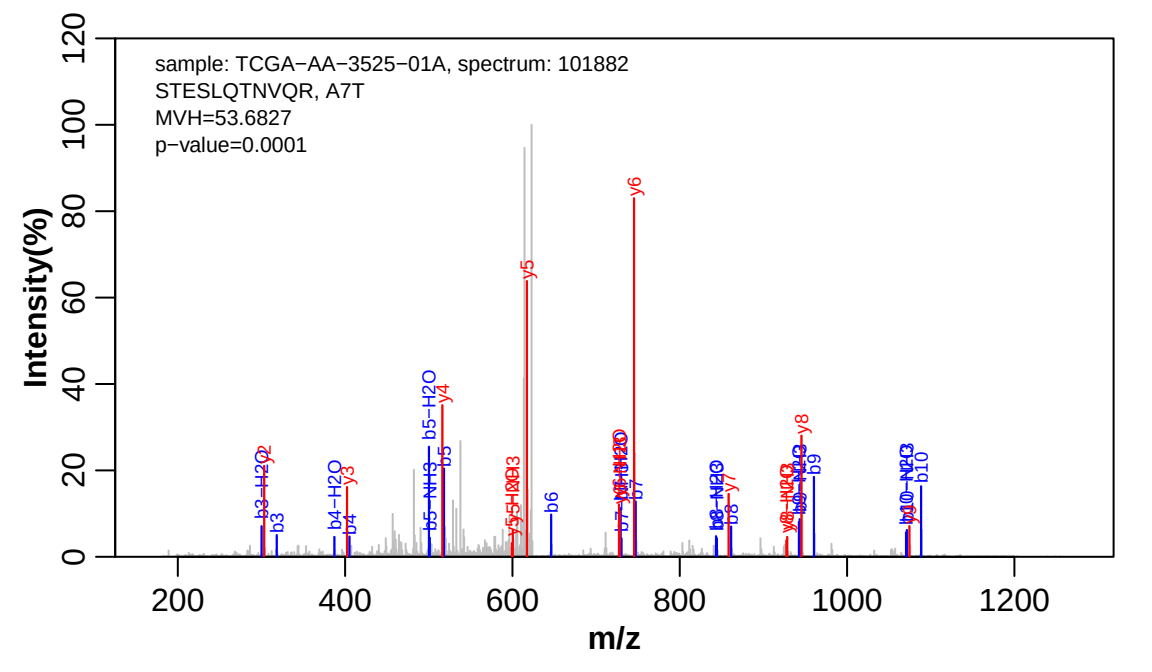

sample: TCGA−AA−3525−01A, spectrum: 79088
SAVGELSEDSSNVVHLLK, Q15H
MVH=52.1481
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5−H2O
b5
y4−H2O
y4
b6−NH3
b6−H2O
b6
y5
y6−NH3
y6
b8−NH3
b8−H2O
b8
y7−H2O
b9−NH3
b9
y8
y9
y10
b12
y11−H2O
y11
b13−NH3
b13
y12
b14−NH3
b14−H2O
b14
y13−NH3
y13
b15
b15−H2O
b16−NH3
b16
y15
b17−NH3
b17

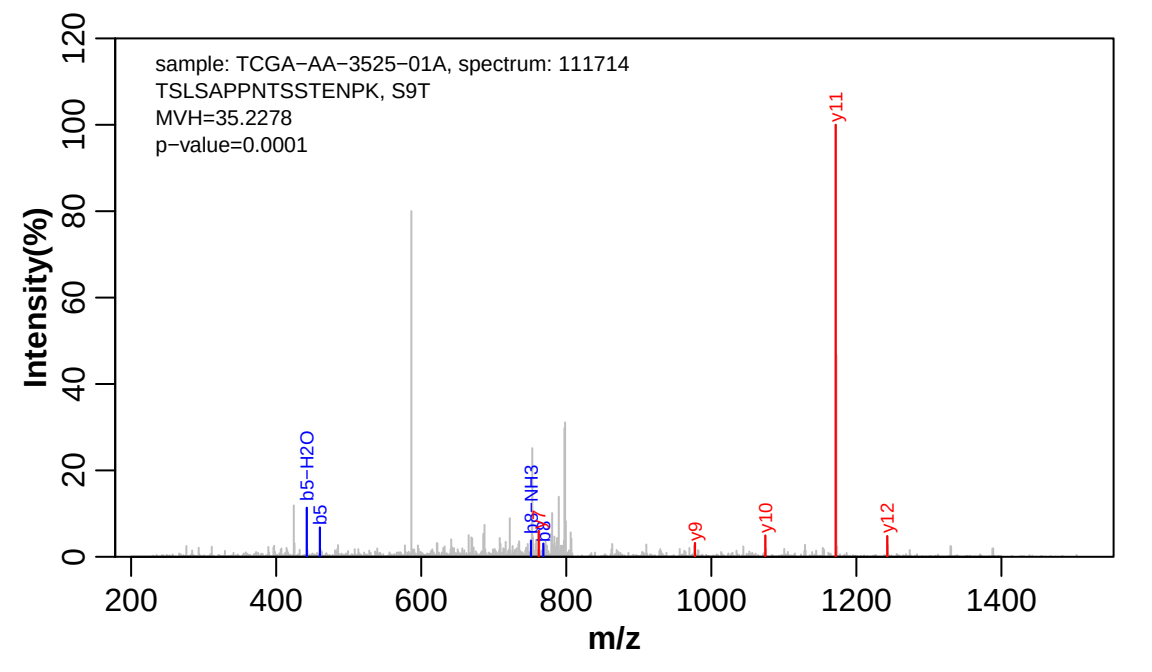

sample: TCGA−AA−3525−01A, spectrum: 58924
SEALPTDLPTPSAPDLTEPK, A10T
MVH=48.1714
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b6
b7−H2O
b7
b8−NH3
b8
y7−H2O
y8
y9
b10−H2O
b10
y10
b12
y12−NH3
y12
b13−H2O
b13
y13
y16
b18

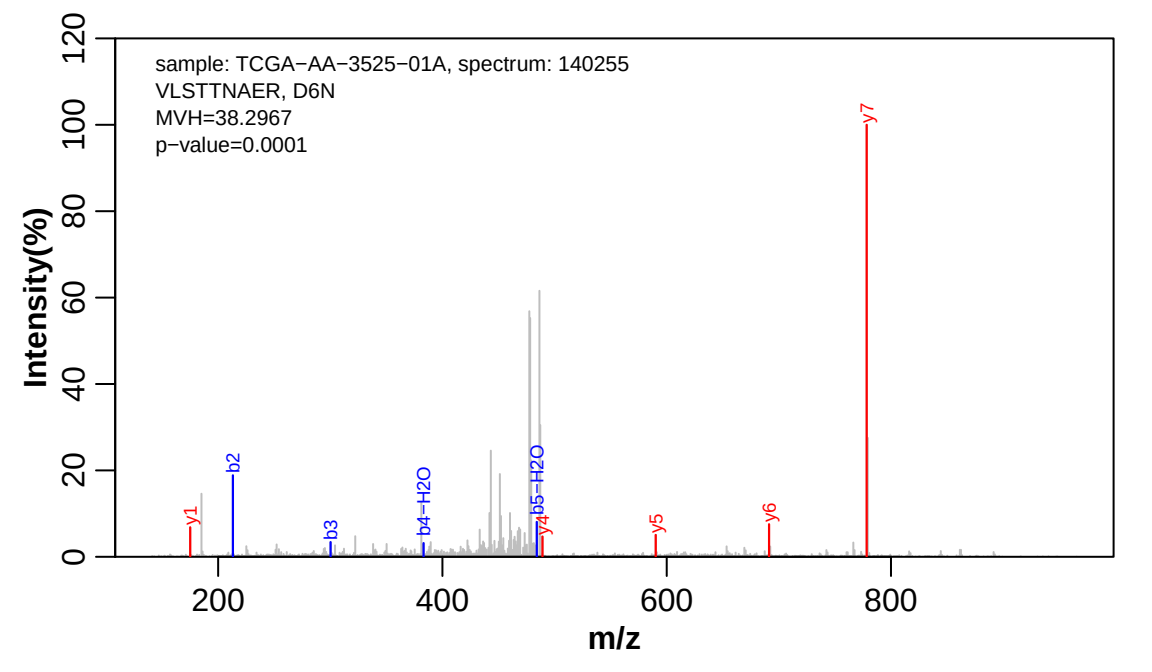

sample: TCGA−AA−3525−01A, spectrum: 6314
SLSLLDSPGLLSGEK, V4I
MVH=44.3163
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
y5−NH3
y5
b6−H2O
b6
y6
y7
y8−H2O
b8
y8
y9
y10
y10−H2O
b10−H2O
b11−H2O
y11
b12
y12
y13
b14

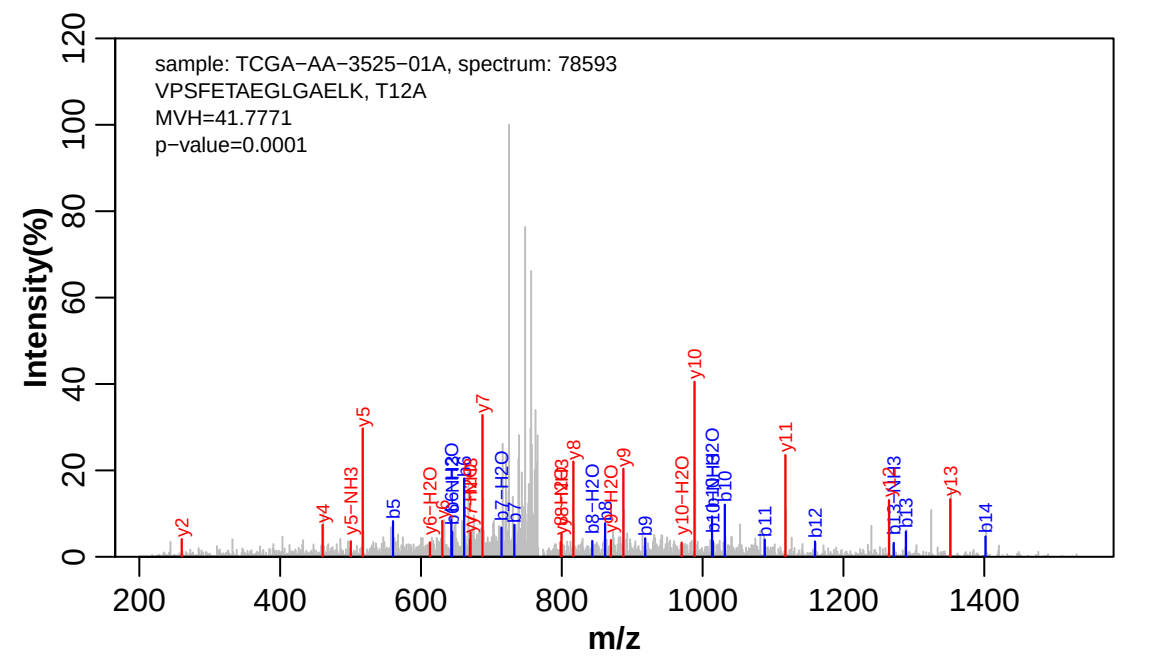

sample: TCGA−AA−3525−01A, spectrum: 112168
SPADPTDLGGQTSPR, I6T
MVH=58.7409
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y6
b7−H2O
y7
y7−NH3
y7−H2O
b8−NH3
b8−H2O
y8
b9
y9
b10
y10
b11
y11
y11−NH3
y11−H2O
b12
b13
y12
y13

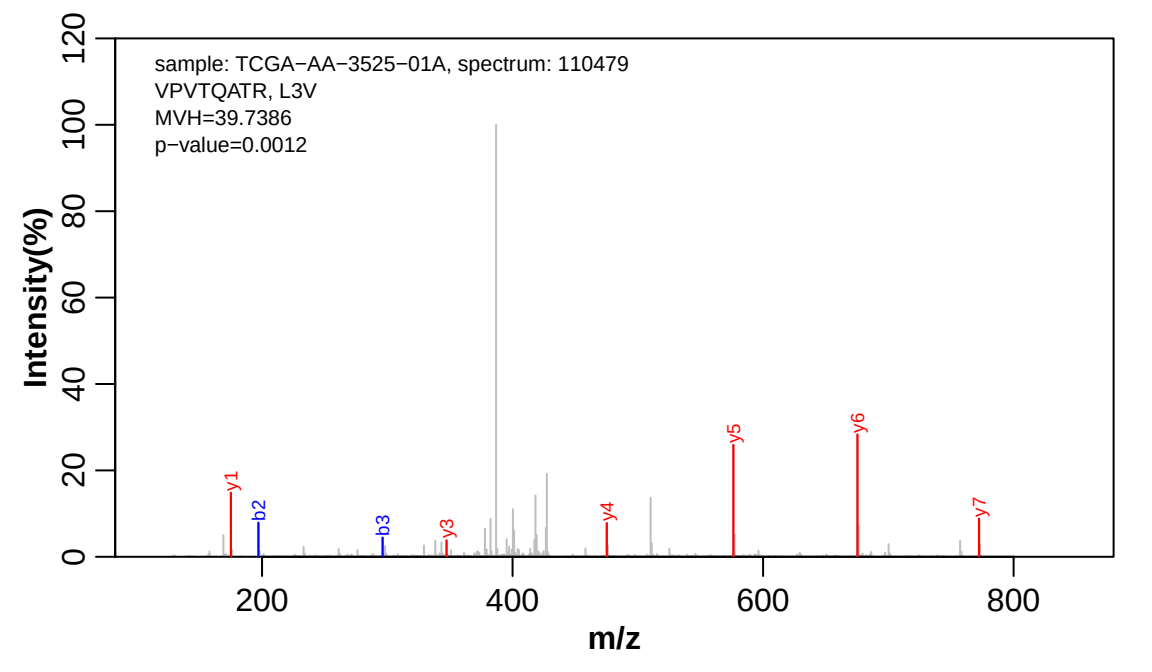

sample: TCGA−AA−3525−01A, spectrum: 53686
SSSYSGEYGSGGGK, G10S
MVH=46.4733
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6−NH3
y6
b5−H2O
b5
b6
y7−H2O
y7−NH3
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10
b10
b11
y11
y12

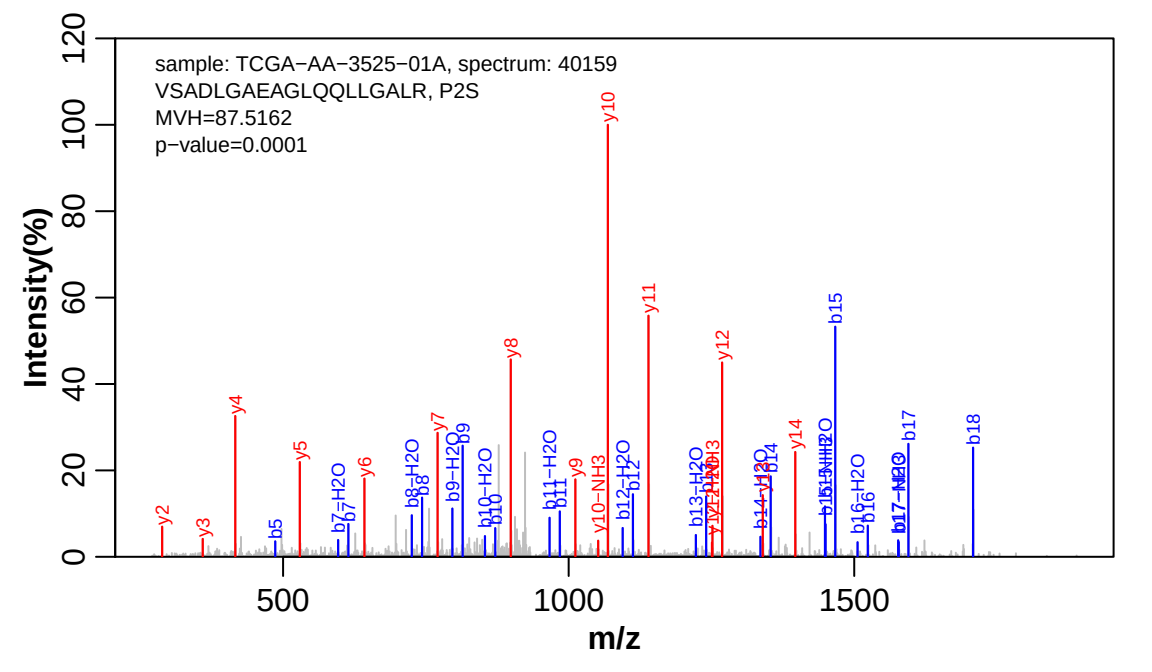

sample: TCGA−AA−3525−01A, spectrum: 101882
STESLQTNVQR, A7T
MVH=53.6827
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y4
b5−H2O
b5
b6
y8
b9
b10
b4−H2O
y3
b4
b3
y2

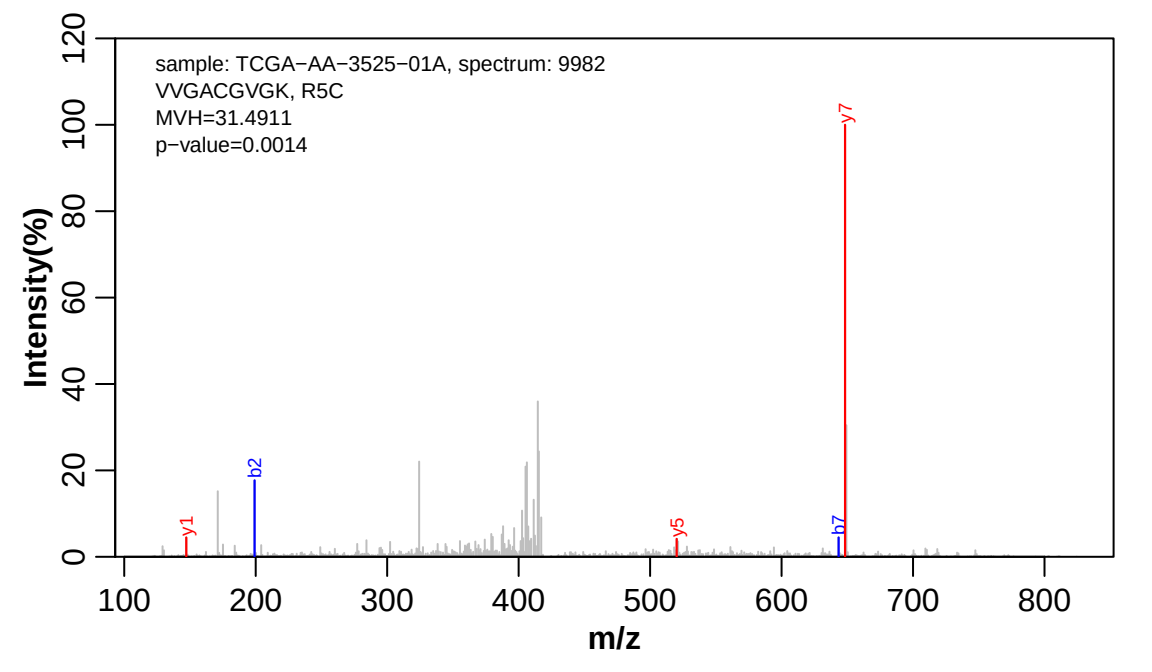

sample: TCGA−AA−3525−01A, spectrum: 111714
TSLSAPPNTSSTENPK, S9T
MVH=35.2278
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b5−H2O
b5
b8−NH3
b8
b7
y9
y10
y11
y12

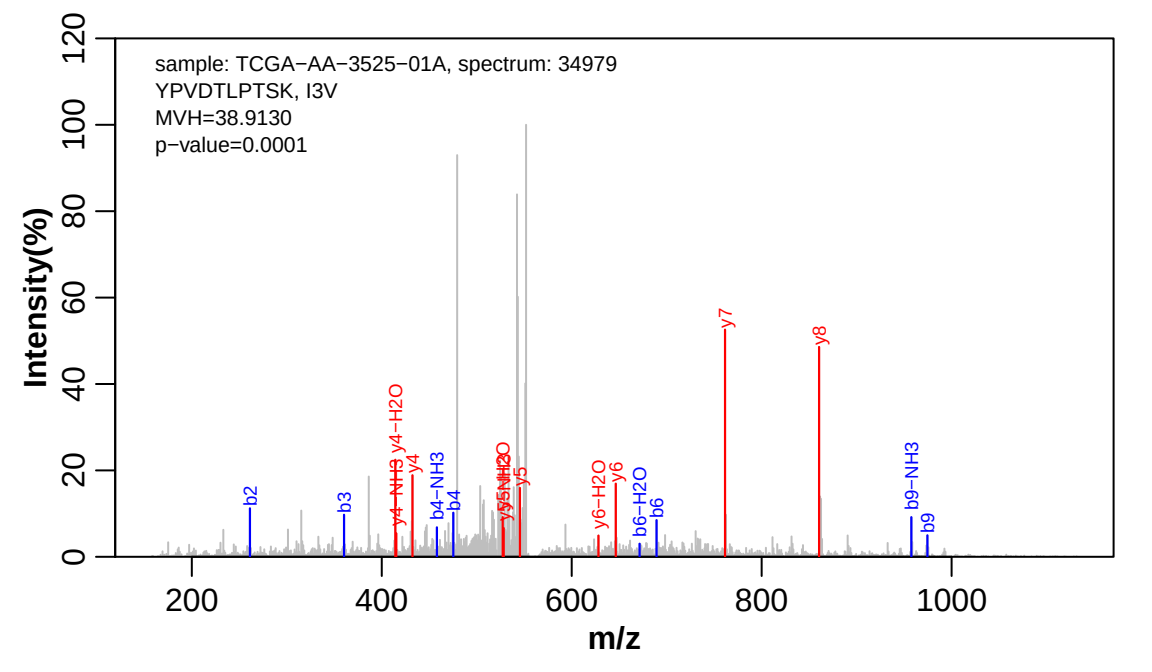

sample: TCGA−AA−3525−01A, spectrum: 140255
VLSTTNAER, D6N
MVH=38.2967
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
b4−H2O
b5−H2O
y4
y5
y6
y7

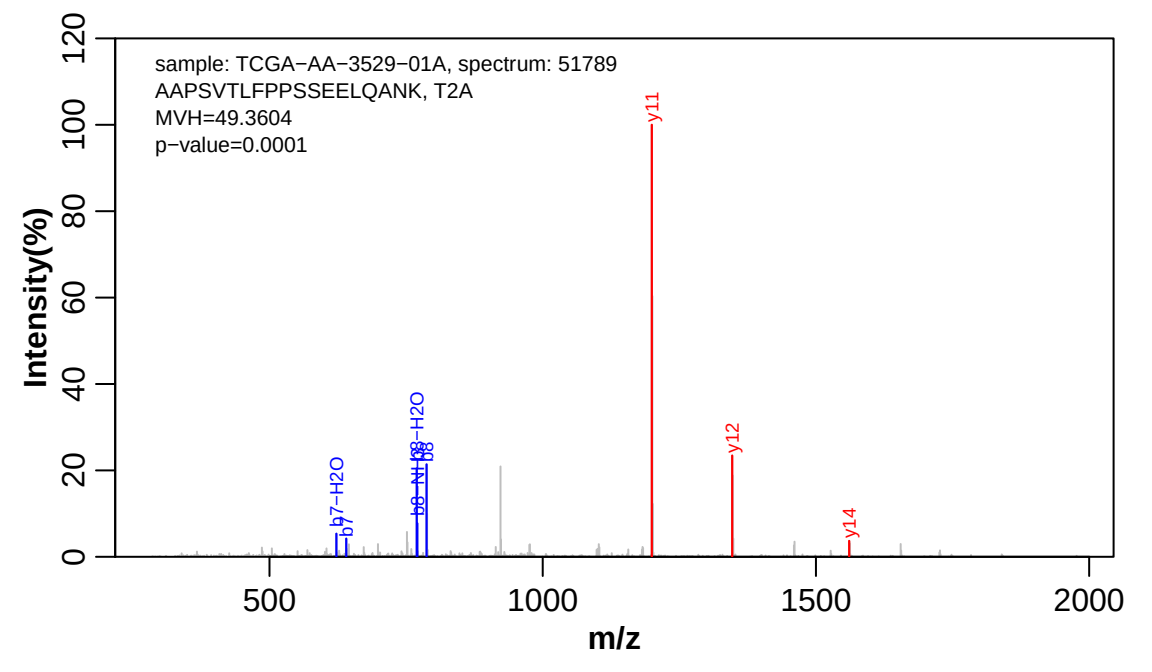

sample: TCGA−AA−3525−01A, spectrum: 78593
VPSFETAEGLGAELK, T12A
MVH=41.7771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y4
y5−NH3
y5
b5
y6−H2O
y7
b7−H2O
b7
y8
b8−H2O
y9
b9
y10−H2O
y10
b10−H2O
b10
y11
b11
b12
y13
b13
b14

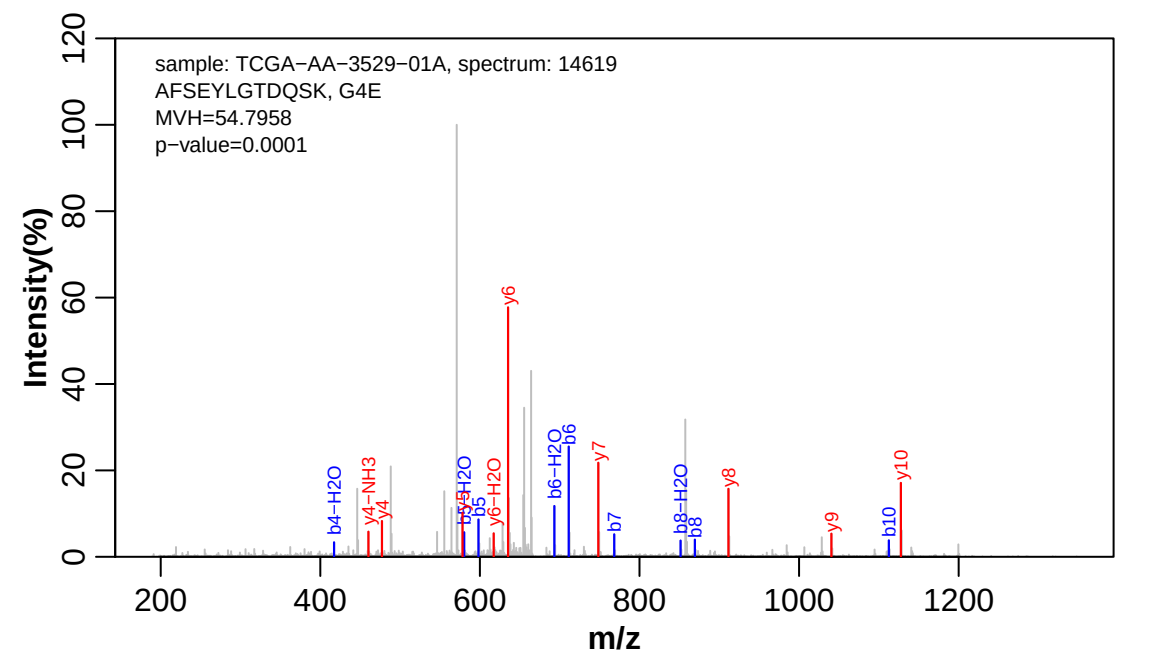

sample: TCGA−AA−3525−01A, spectrum: 110479
VPVTQATR, L3V
MVH=39.7386
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

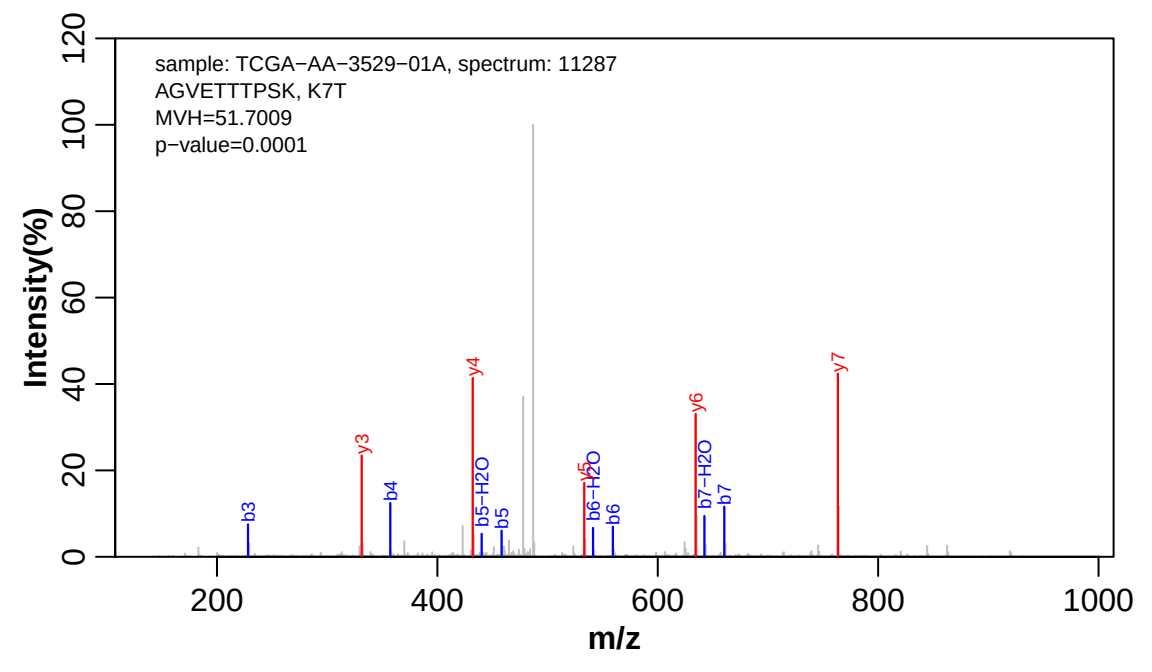

sample: TCGA−AA−3525−01A, spectrum: 40159
VSADLGAEAGLQQLLGALR, P2S
MVH=87.5162
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
b5
y5
b7−H2O
b7
y6
b8−H2O
b8
y7
b9
b9−H2O
y8
b10−H2O
b10
b11−H2O
y9
y10−NH3
y10
b12−H2O
b12
y11
b13−H2O
y12−H2O
y12−NH3
y12
b14−H2O
b14
y14
b15−H2O
b15−NH3
b15
b16−H2O
b16
b17−H2O
b17−NH3
b17
b18

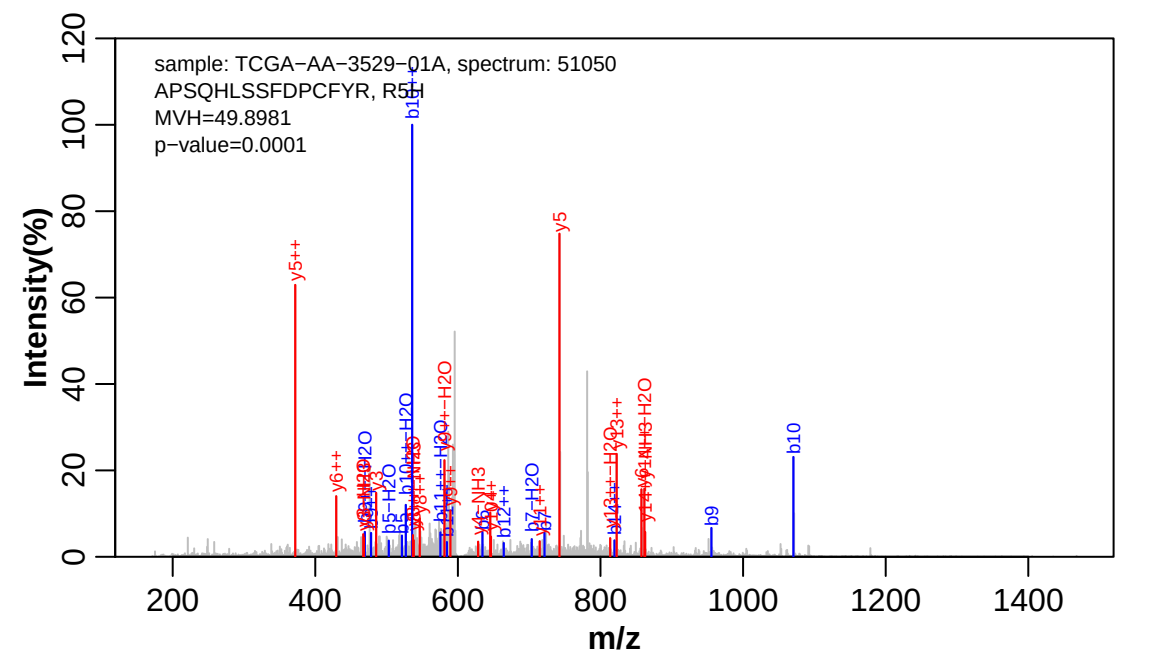

sample: TCGA−AA−3525−01A, spectrum: 9982
VVGACGVGK, R5C
MVH=31.4911
p−value=0.0014
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
y5
b7
y7

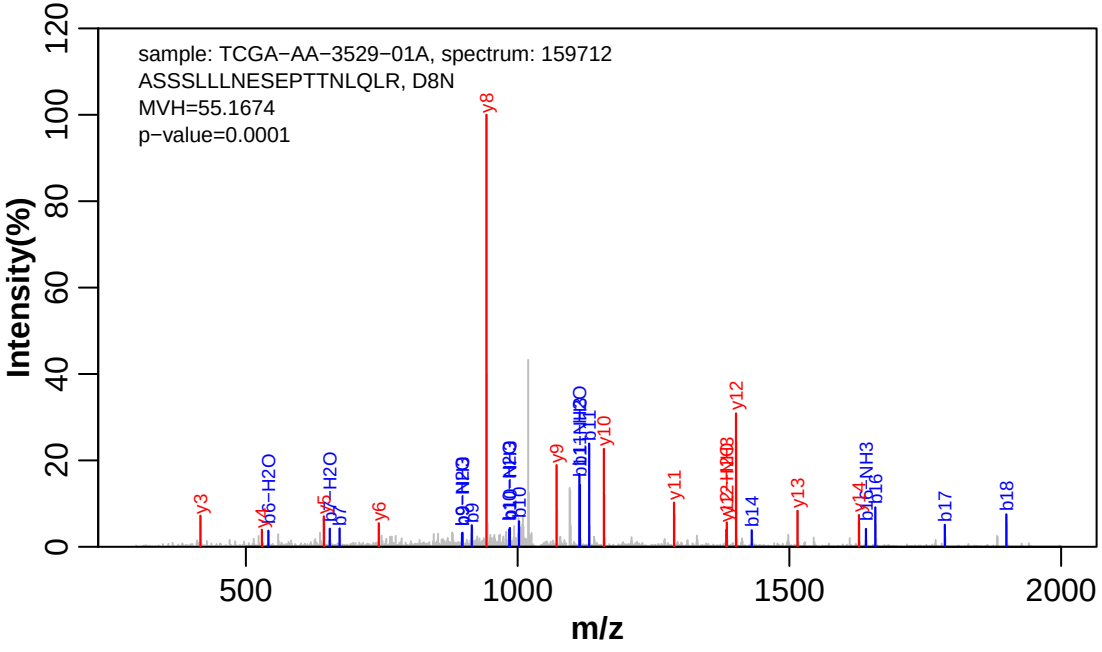

sample: TCGA−AA−3525−01A, spectrum: 34979
YPVDTLPTSK, I3V
MVH=38.9130
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
y4−NH3
y4−H2O
y4
b4−NH3
b4
y5−NH3
y5−H2O
y5
y6−H2O
y6
b6−H2O
b6
y7
y8
b9−NH3
b9

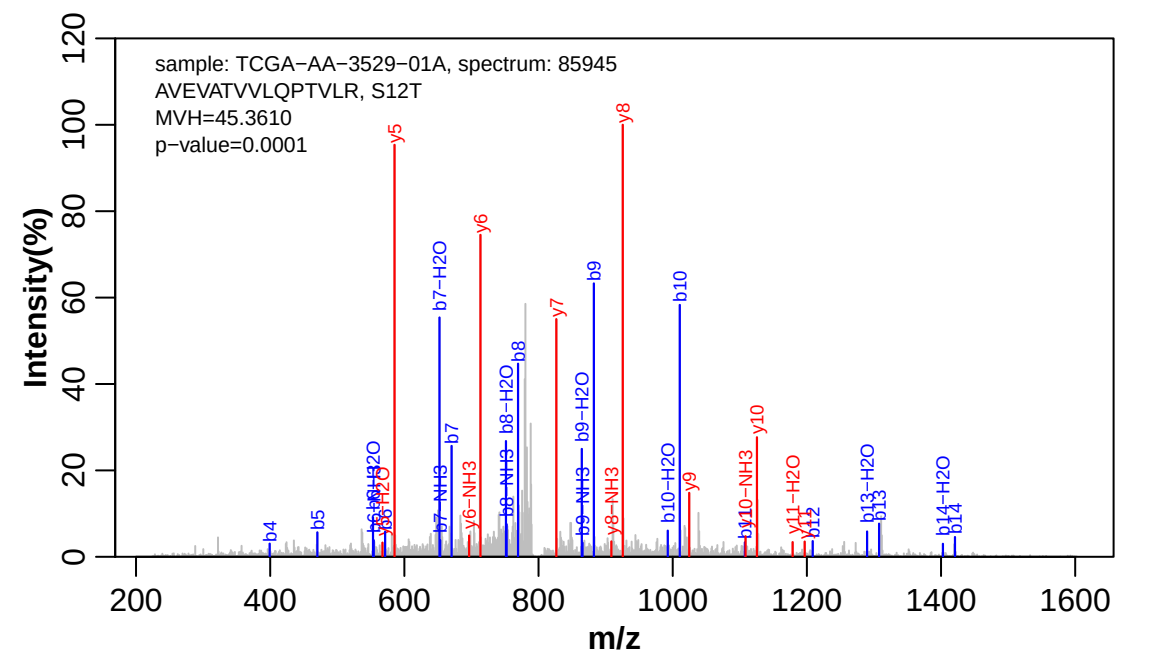

sample: TCGA−AA−3529−01A, spectrum: 51789
AAPSVTLFPPSSEELQANK, T2A
MVH=49.3604
p−value=0.0001
y11
y12
y14
b7−H2O
b8−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

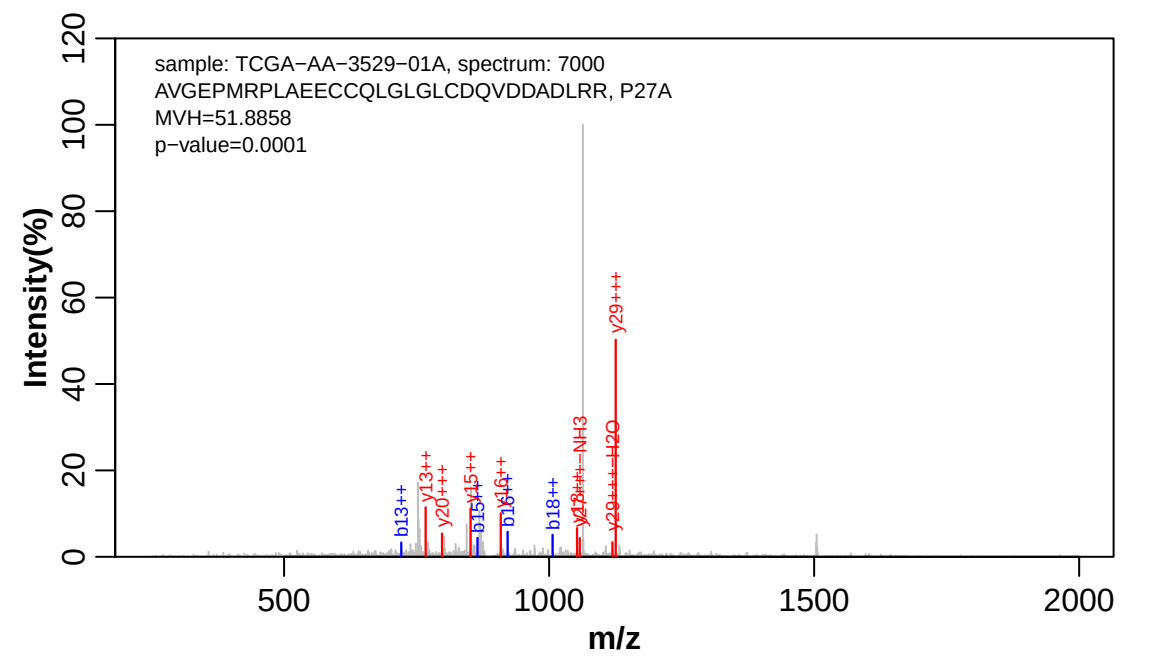

sample: TCGA−AA−3529−01A, spectrum: 14619
AFSEYLGTDQSK, G4E
MVH=54.7958
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b4−H2O
y4−NH3
y4
b5−H2O
b5
y6
y6−H2O
b6−H2O
b6
y7
b7
b8−H2O
b8
y8
y9
b10
y10

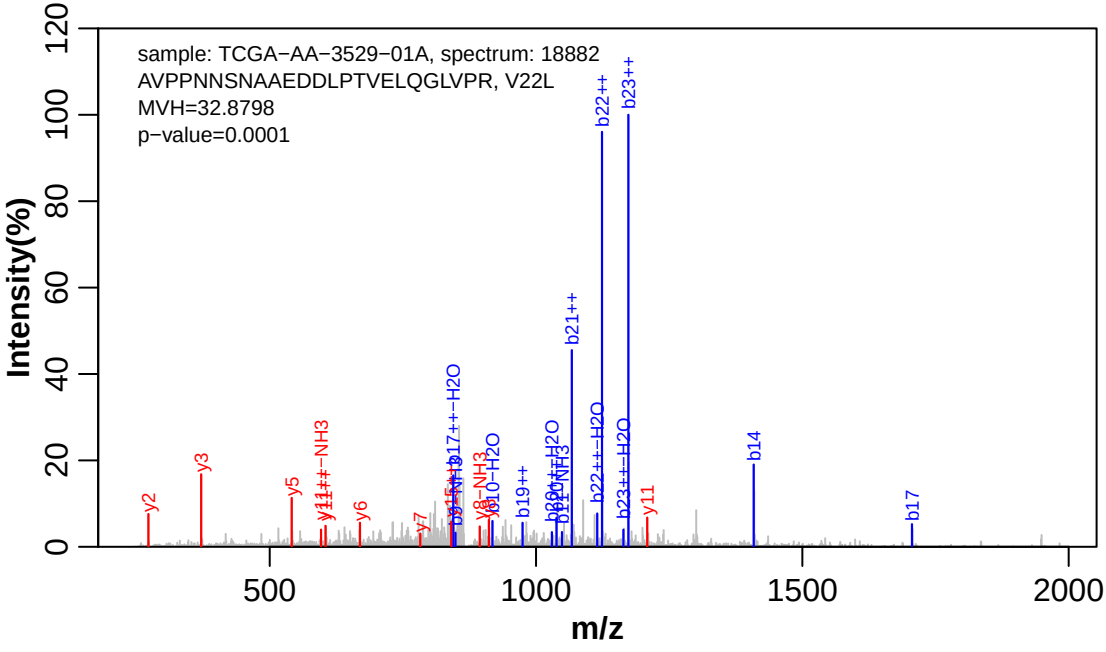

sample: TCGA−AA−3529−01A, spectrum: 11287
AGVETTTPSK, K7T
MVH=51.7009
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

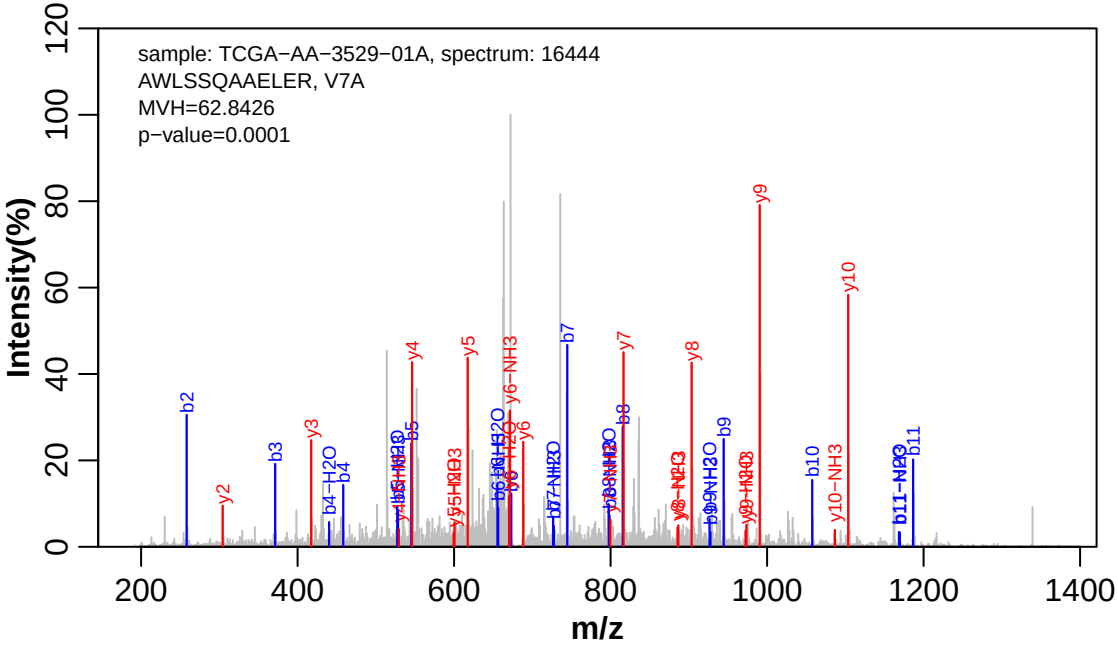

sample: TCGA−AA−3529−01A, spectrum: 51050
APSQHLSSFDPCFYR, R5H
MVH=49.8981
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5++
y5
b10++
b10
y6++
b9
b12++
b7++
b7++−H2O
b5−H2O
b5
y13++
y13++−H2O
y6++−NH3
y6++−H2O
b10++−H2O
b10++−NH3
b10++−H2O
y8++−H2O
y8++−NH3
y8++
y11++−H2O
y11++
y11++−NH3
y11++−H2O
b11++−H2O
b11++
b12++−H2O
b12++−NH3
b12++
y14++−H2O
y14++
y14++−NH3
y14++−H2O

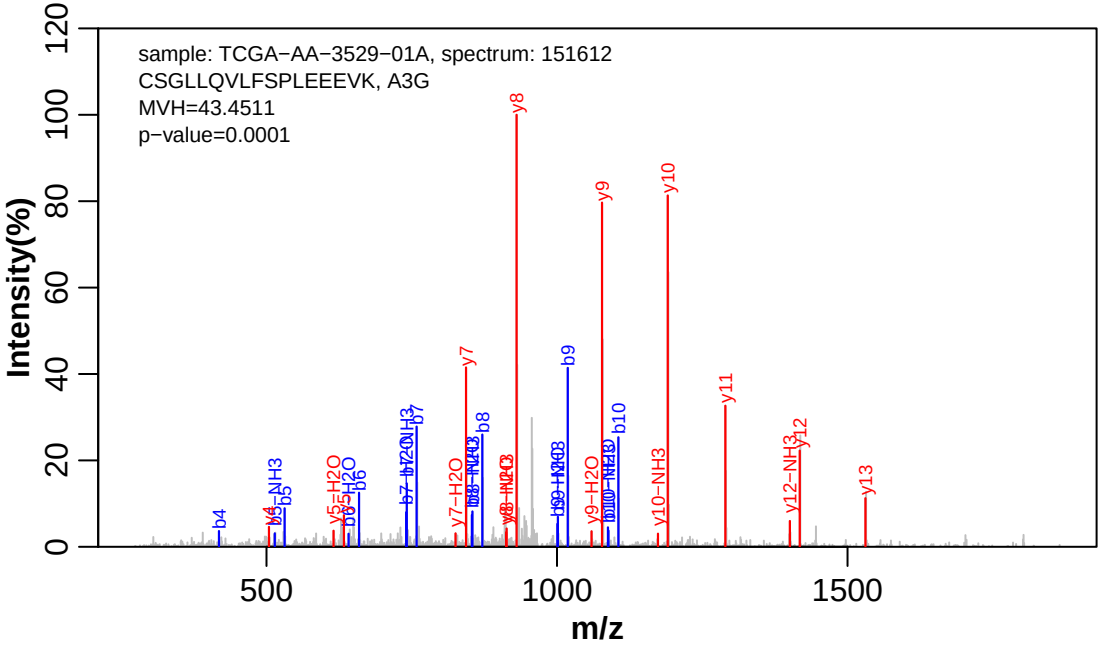

sample: TCGA−AA−3529−01A, spectrum: 159712
ASSSLLLNESEPTTNLQLR, D8N
MVH=55.1674
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y12
y10
y9
y11
y13
y3
y6
b14
b17
b18

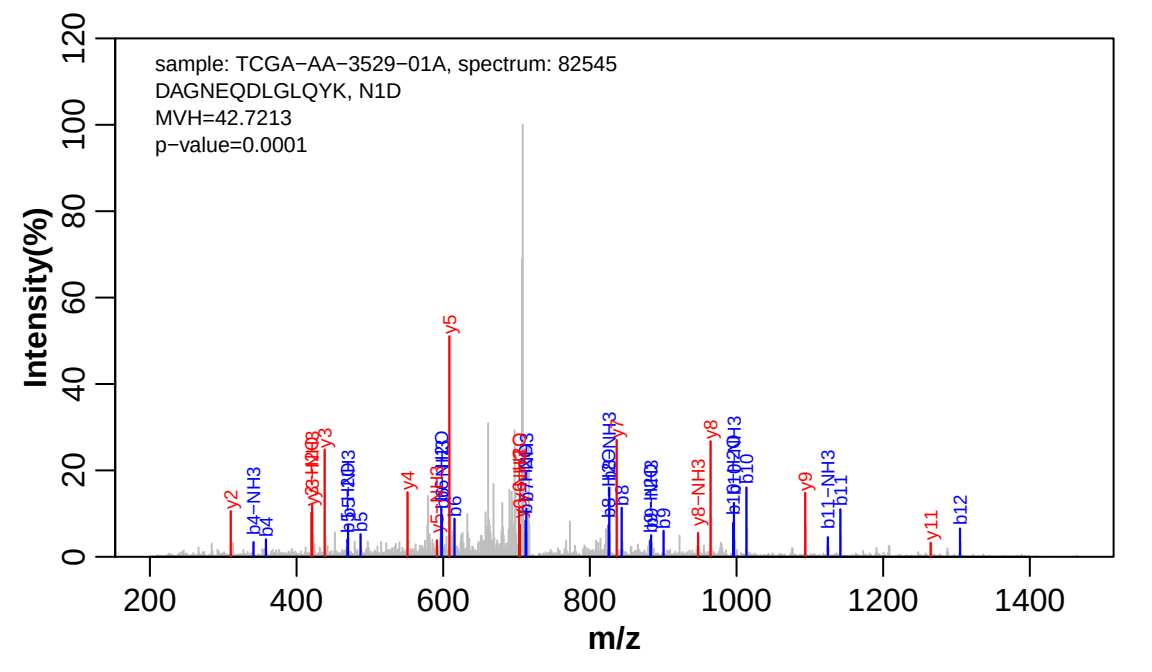

sample: TCGA−AA−3529−01A, spectrum: 85945
AVEVATVVLQPTVLR, S12T
MVH=45.3610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
b5
b6−H2O
b6−NH3
b6
y5−H2O
b7−NH3
b7
y6−NH3
b7−H2O
y5
b8−NH3
b8−H2O
b8
y6
y7
b9−NH3
b9−H2O
b9
y8−NH3
y7−H2O
y8
b10−H2O
b10
y9
b10−NH3
y10
y11−H2O
b11
b12
b13−H2O
b13
b14−H2O
b14

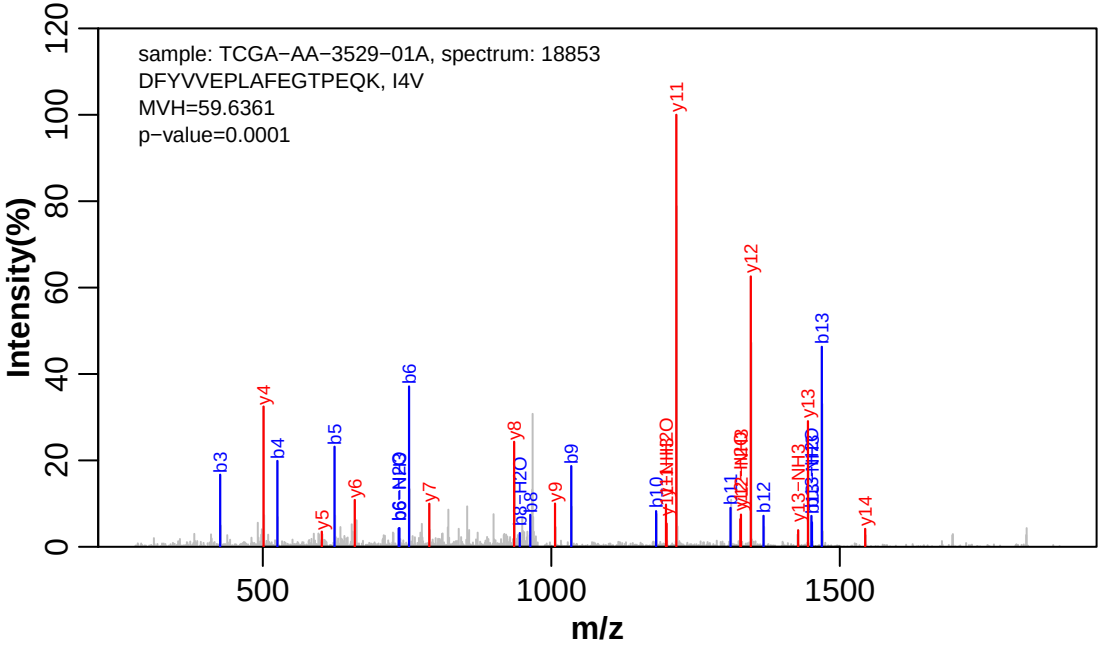

sample: TCGA−AA−3529−01A, spectrum: 7000
AVGEPMRPLAEECCQLGLGLCDQVDDADLRR, P27A
MVH=51.8858
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b13++
y13++
y20+++
b15++
y15++
y16++
b16++
b18++
y27+++−NH3
y29+++−H2O
y29+++

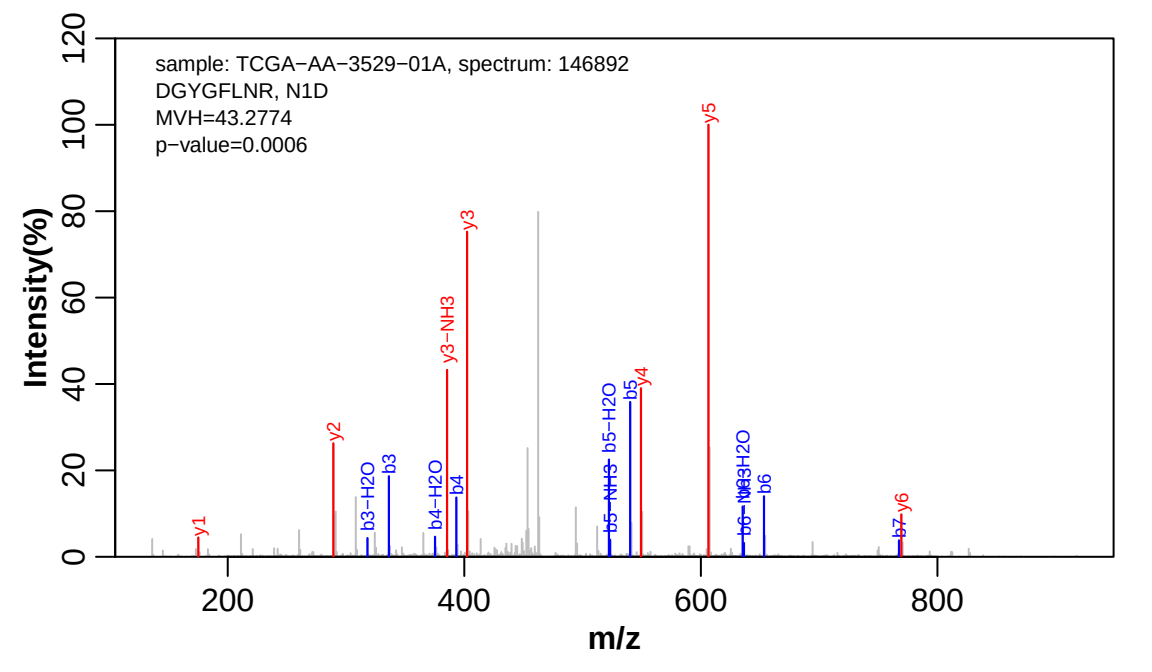

sample: TCGA−AA−3529−01A, spectrum: 18882
AVPPNNSNAAEDDLPTVELQGLVPR, V22L
MVH=32.8798
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y5
y11++−NH3
y6
y7
b17++−H2O
y8−NH3
y10−H2O
b19++
b21++
b22++−H2O
b23++−H2O
y11
b14
b17
b22++
b23++

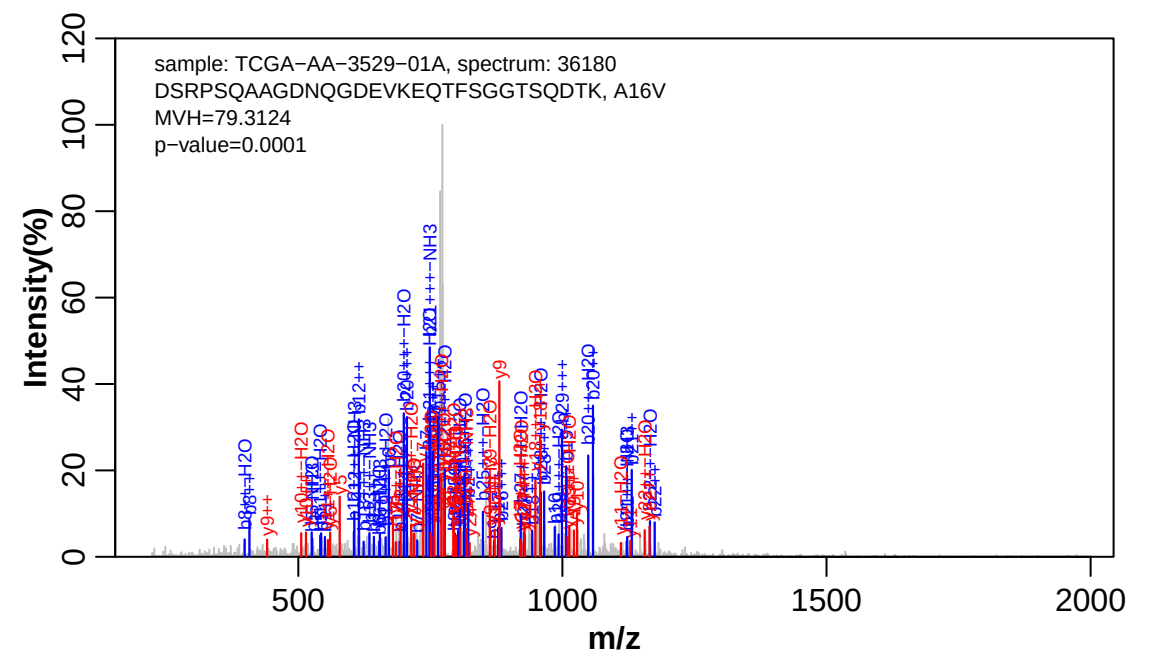

sample: TCGA−AA−3529−01A, spectrum: 16444
AWLSSQAAELER, V7A
MVH=62.8426
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
b5
y5
y6−NH3
b6
y6
b7−NH3
b7
y7
b8
y8
b9
b10
y9
y10
y10−NH3
b11

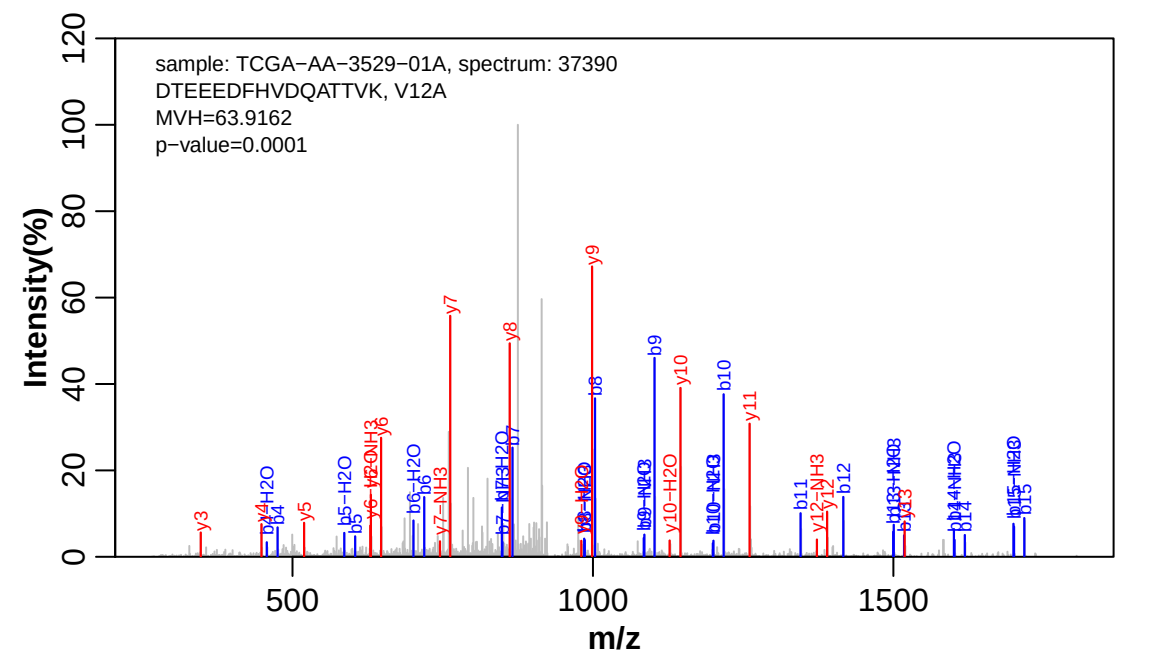

sample: TCGA−AA−3529−01A, spectrum: 151612
CSGLLQVLFSPLEEEVK, A3G
MVH=43.4511
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y7
b9
y11
b10
y12
y12−NH3
y13
y10−NH3
y9−H2O
y7−H2O
b8
b7
b7−H2O−NH3
b6
b6−H2O
y5−H2O
b5
b5−NH3
b4

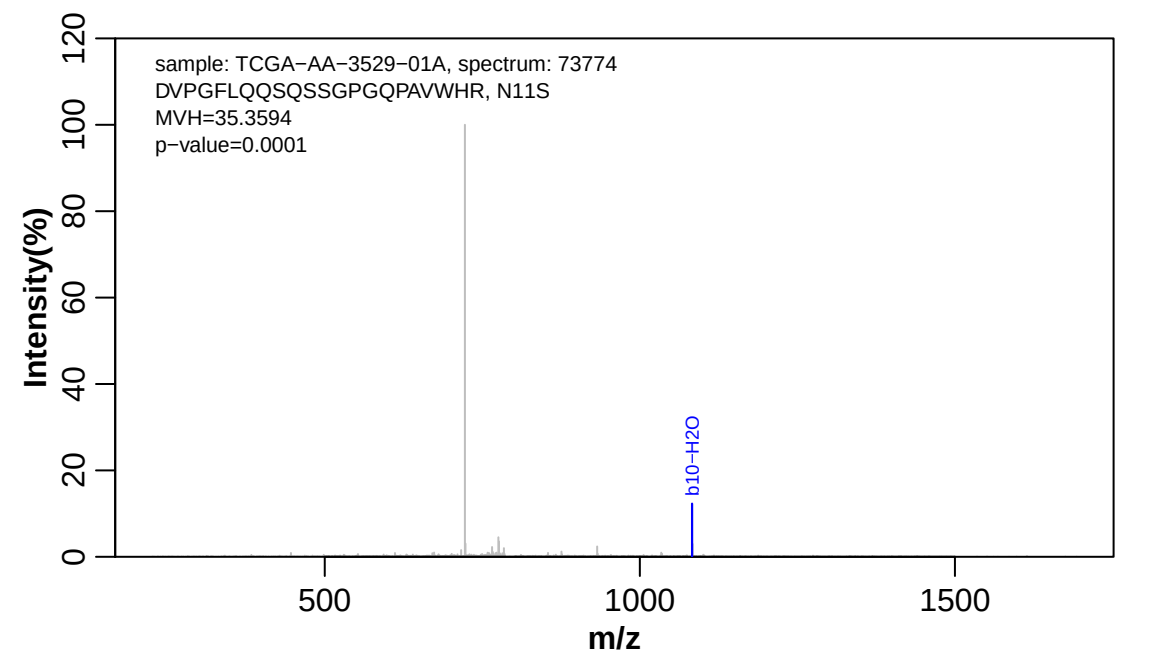

sample: TCGA−AA−3529−01A, spectrum: 82545
DAGNEQDLGLQYK, N1D
MVH=42.7213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−NH3
b4
y3
y4
y5
b5
b6
y8
y8−NH3
b8
b9
y9
b10
b11−NH3
b11
y11
b12

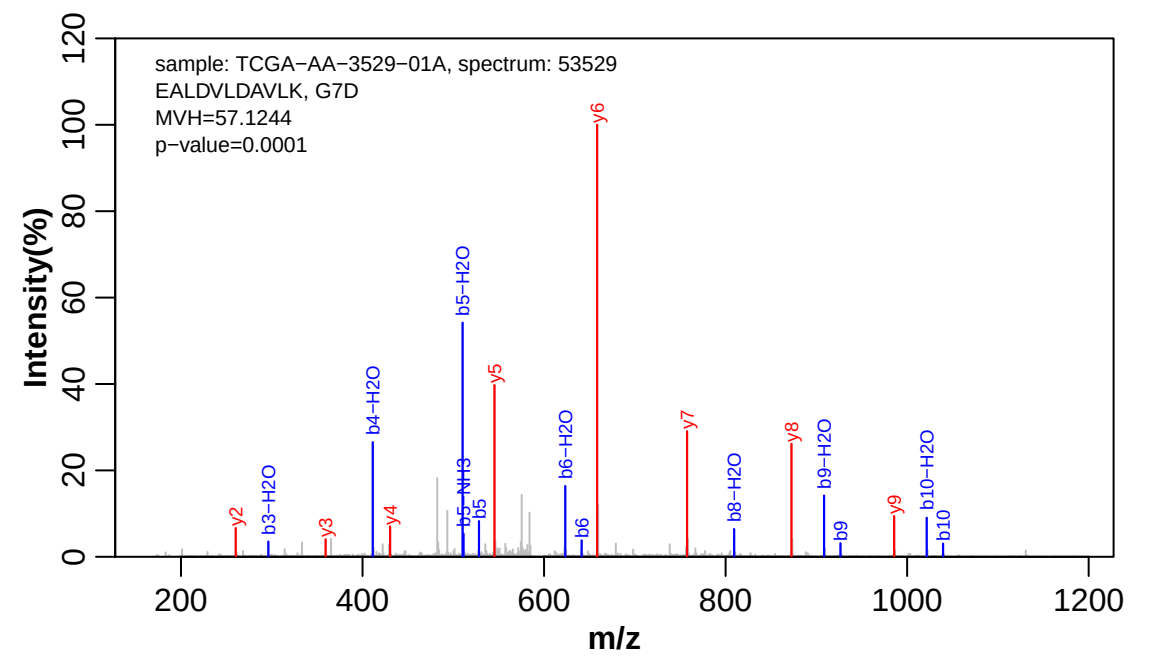

sample: TCGA−AA−3529−01A, spectrum: 18853
DFYVVEPLAFEGTPEQK, I4V
MVH=59.6361
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y5
y6
b6
y7
y8
y9
b9
y11
y12
b12
b13
y13
y14

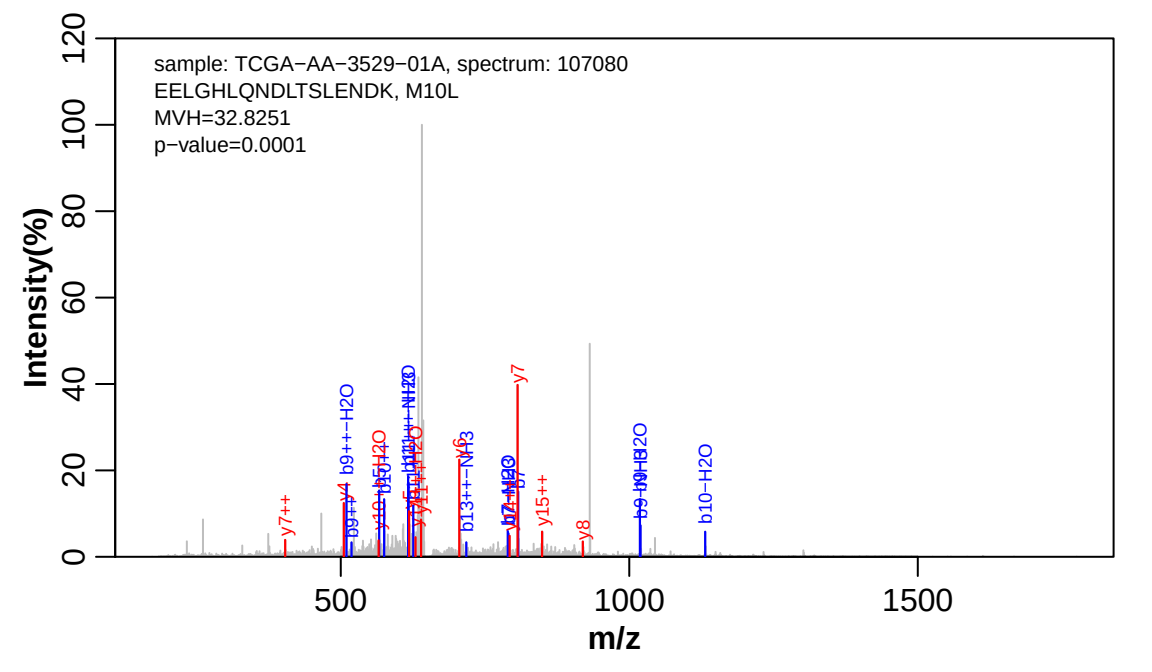

sample: TCGA−AA−3529−01A, spectrum: 146892
DGYGFLNR, N1D
MVH=43.2774
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6
y6
b7

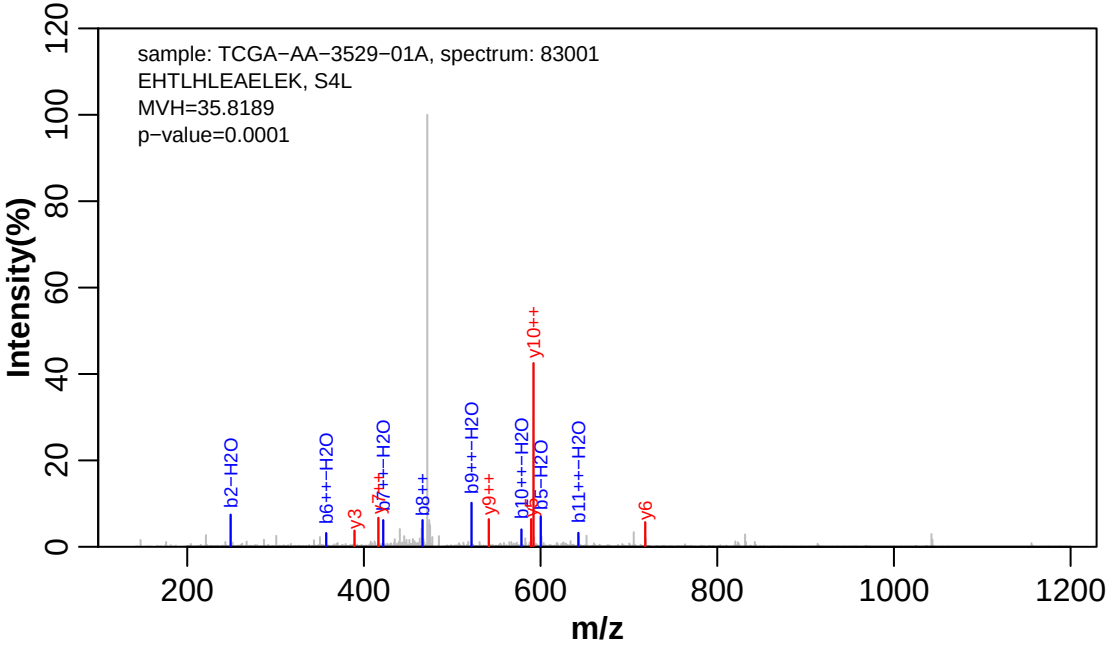

sample: TCGA−AA−3529−01A, spectrum: 36180
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=79.3124
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

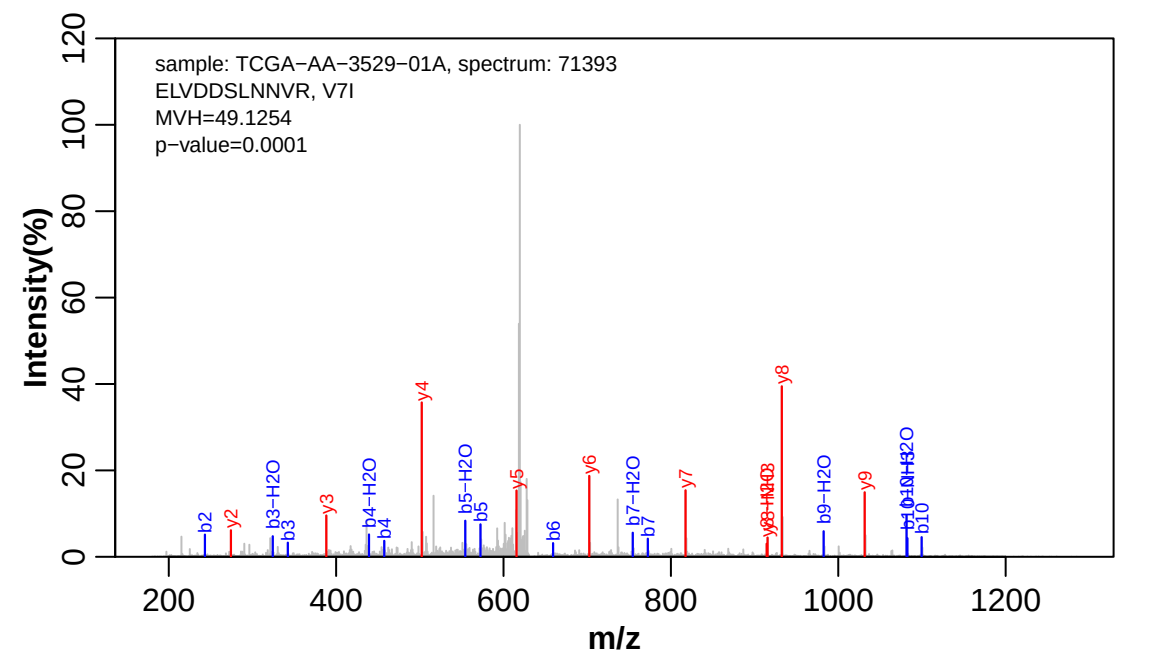

sample: TCGA−AA−3529−01A, spectrum: 37390
DTEEEDFHVDQATTVK, V12A
MVH=63.9162
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4
y4
b4−H2O
y5
b5
b5−H2O
y6
y6−H2O
y6−NH3
b6
b6−H2O
y7
y7−NH3
y8
b7
b7−H2O
b7−NH3
b8
b8−H2O
b8−NH3
y9
b9
b9−H2O
b9−NH3
y10
y10−H2O
b10
b10−H2O
b10−NH3
y11
b11
y12
y12−NH3
b12
b13
b13−H2O
b13−NH3
b14
b14−H2O
b14−NH3
b15
b15−H2O
b15−NH3

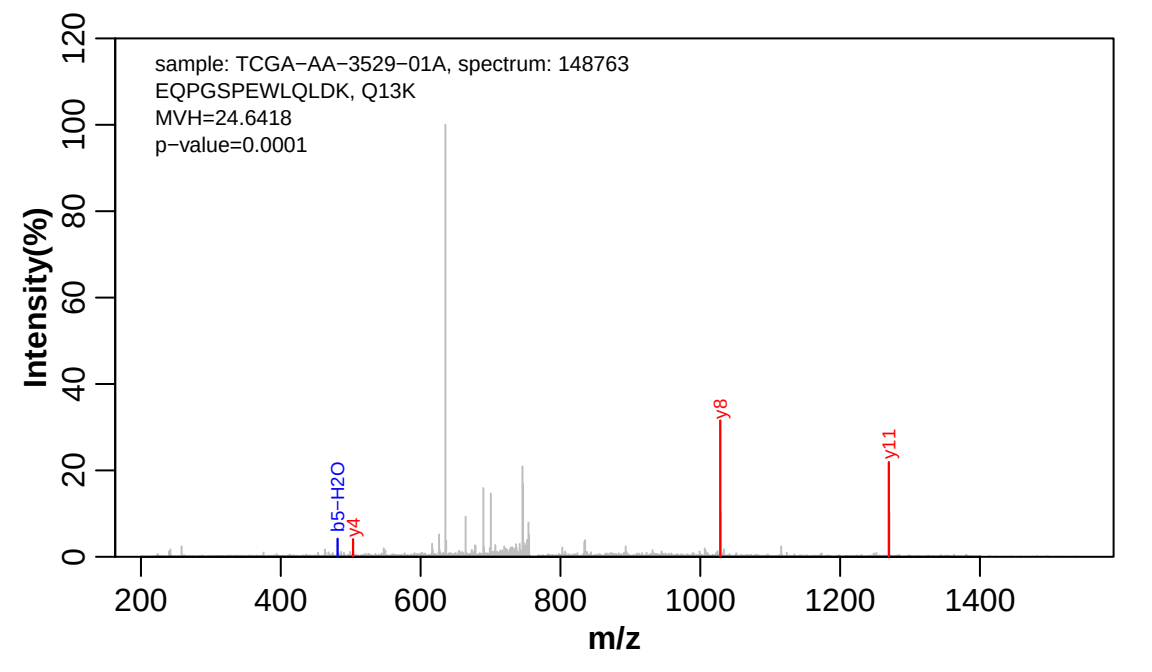

sample: TCGA−AA−3529−01A, spectrum: 73774
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=35.3594
p−value=0.0001
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

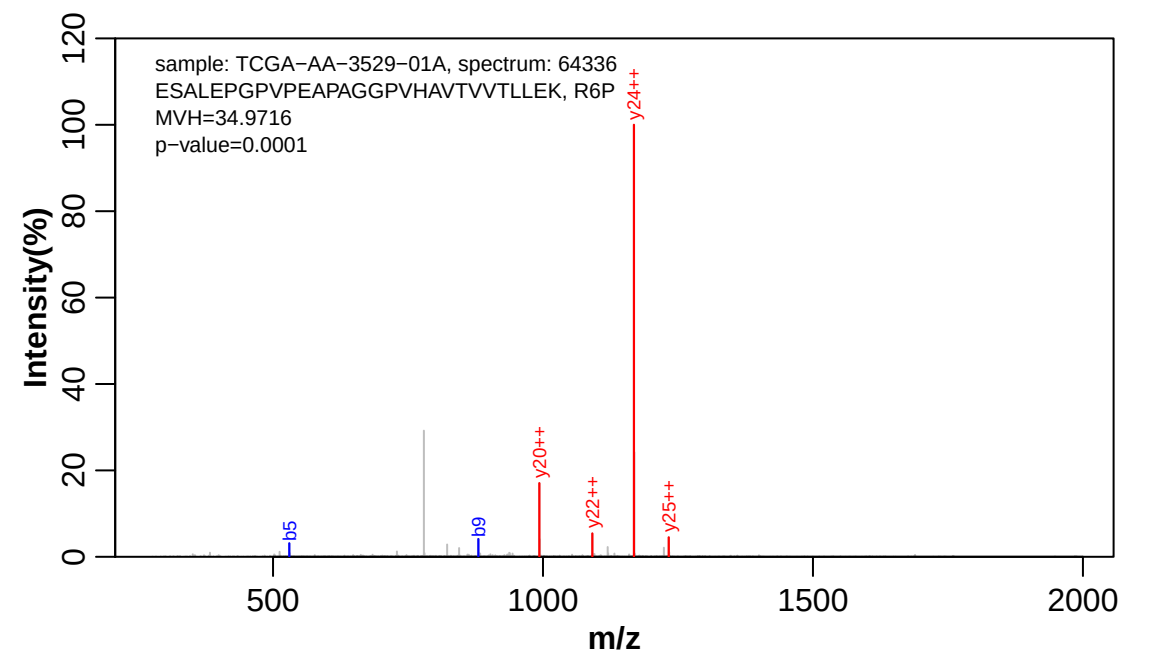

sample: TCGA−AA−3529−01A, spectrum: 53529
EALDVLDAVLK, G7D
MVH=57.1244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
y4
b4−H2O
b5−NH3
b5
b5−H2O
y5
b6
b6−H2O
y6
y7
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O

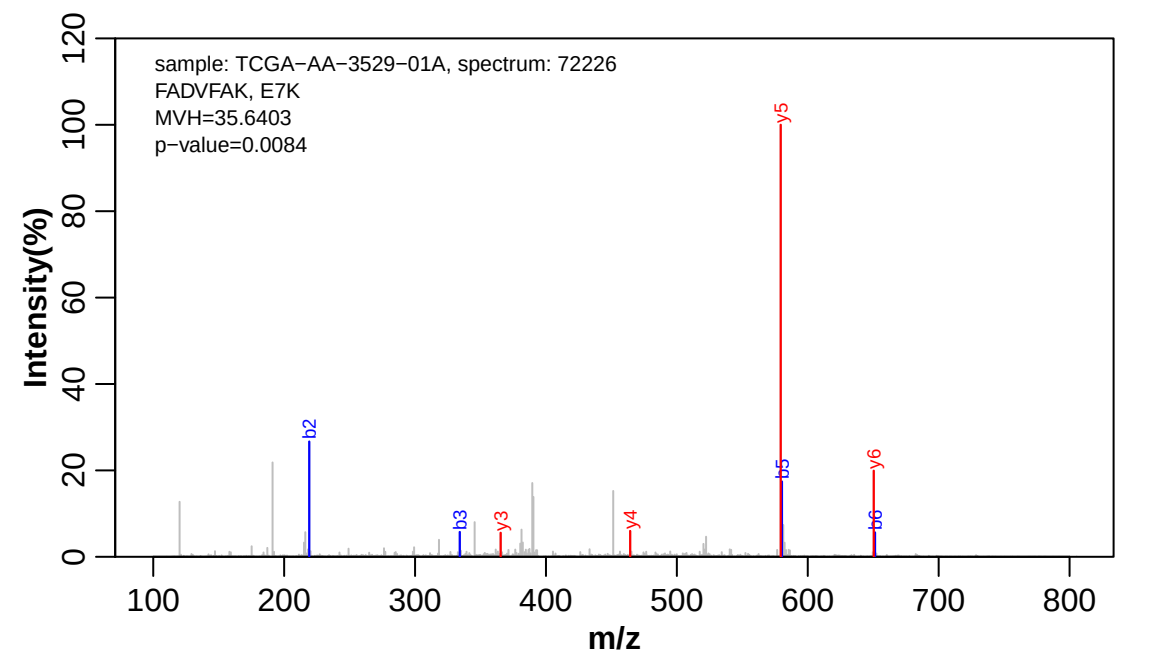

sample: TCGA−AA−3529−01A, spectrum: 107080
EELGHLQNDLTSLENDK, M10L
MVH=32.8251
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7++
b9++−H2O
b9++
y4
y10++−H2O
y10++
b13++−NH3
y7
y15++
y8
b9−H2O
b10−H2O

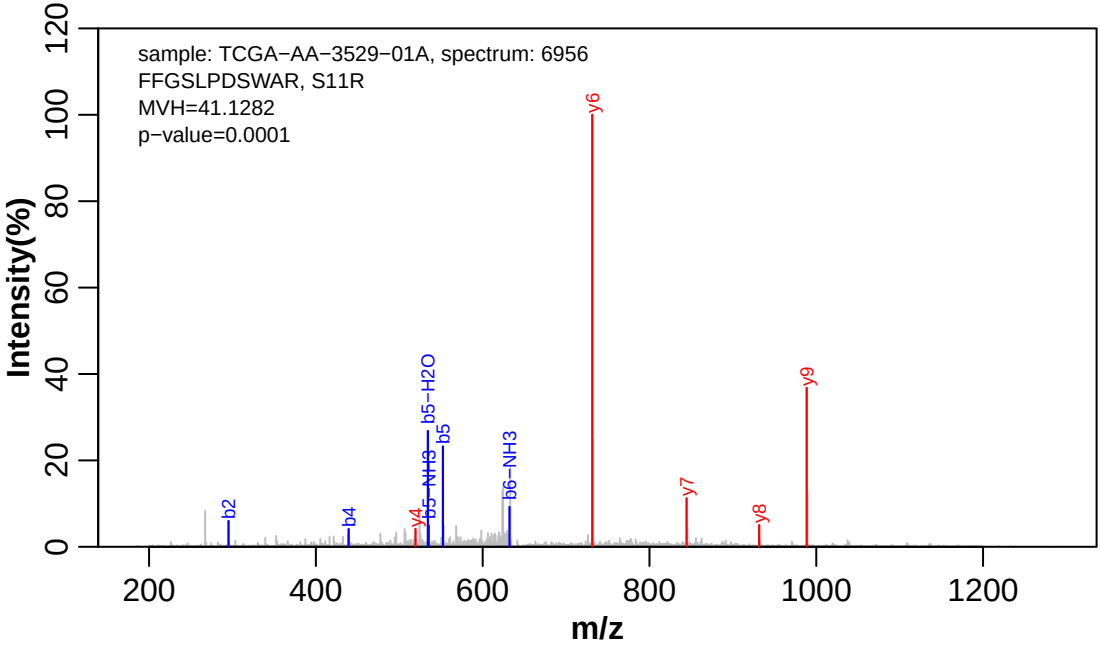

sample: TCGA−AA−3529−01A, spectrum: 83001
EHTLHLEAELEK, S4L
MVH=35.8189
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−H2O
b6++−H2O
y3
y7++
y7++−H2O
b8++
b9++−H2O
y9++
b10++−H2O
y8
b5−H2O
y10++
b11++−H2O
y6

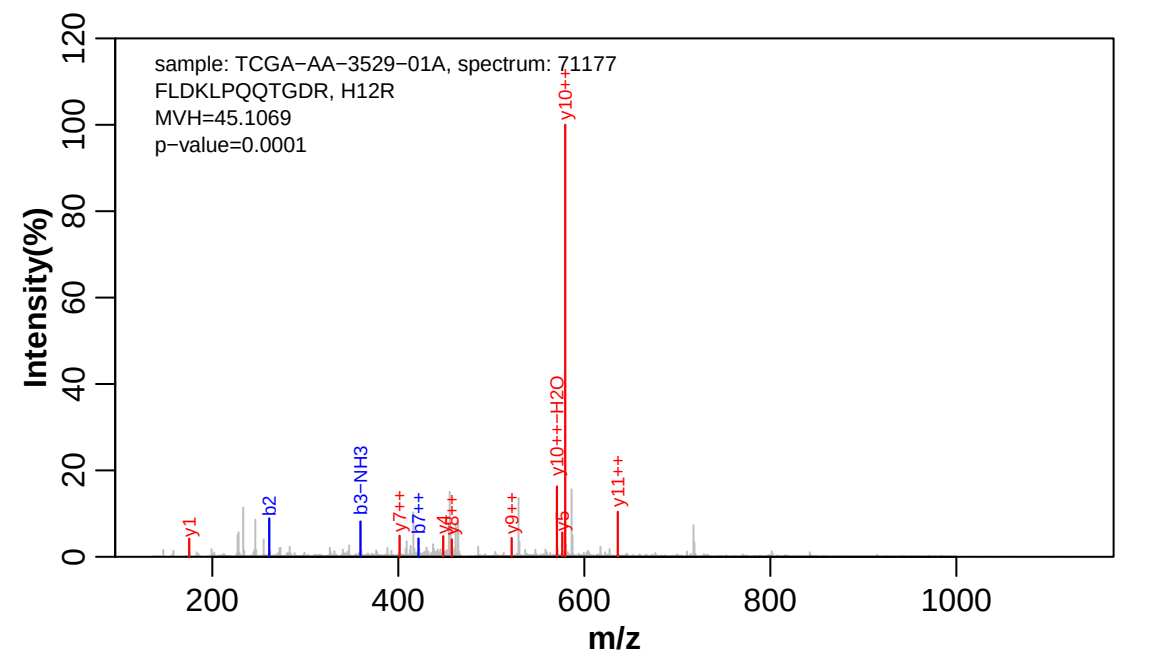

sample: TCGA−AA−3529−01A, spectrum: 71393
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
y8
b9−H2O
y9
b10
b10−NH3
b10−H2O

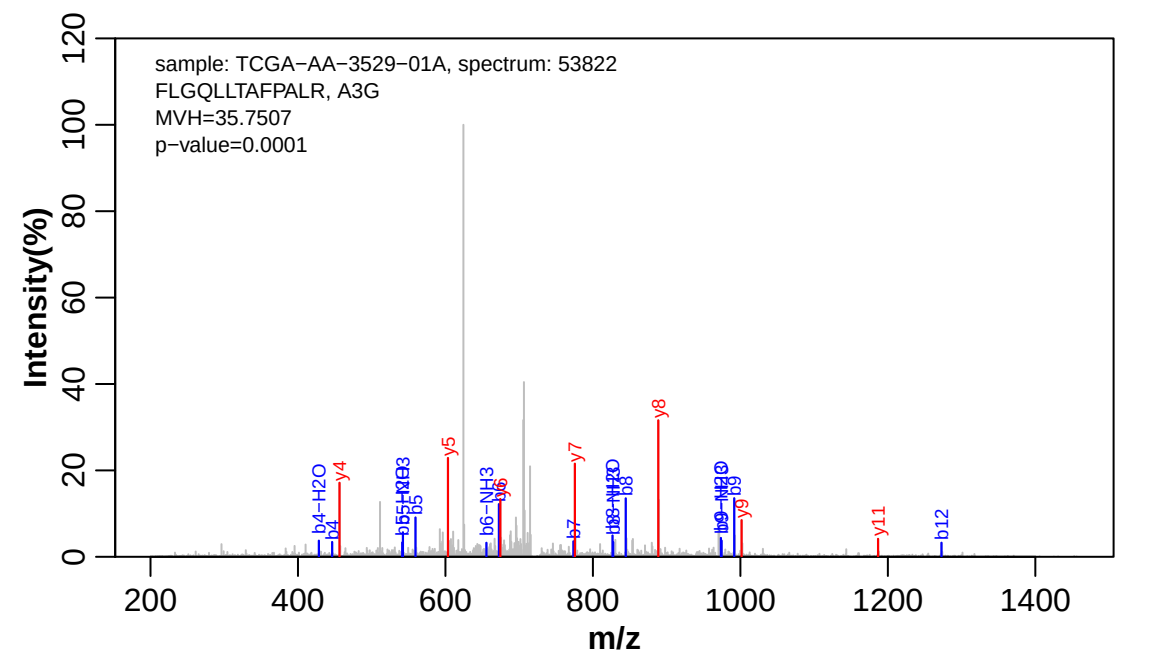

sample: TCGA−AA−3529−01A, spectrum: 148763
EQPGSPEWLQLDK, Q13K
MVH=24.6418
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

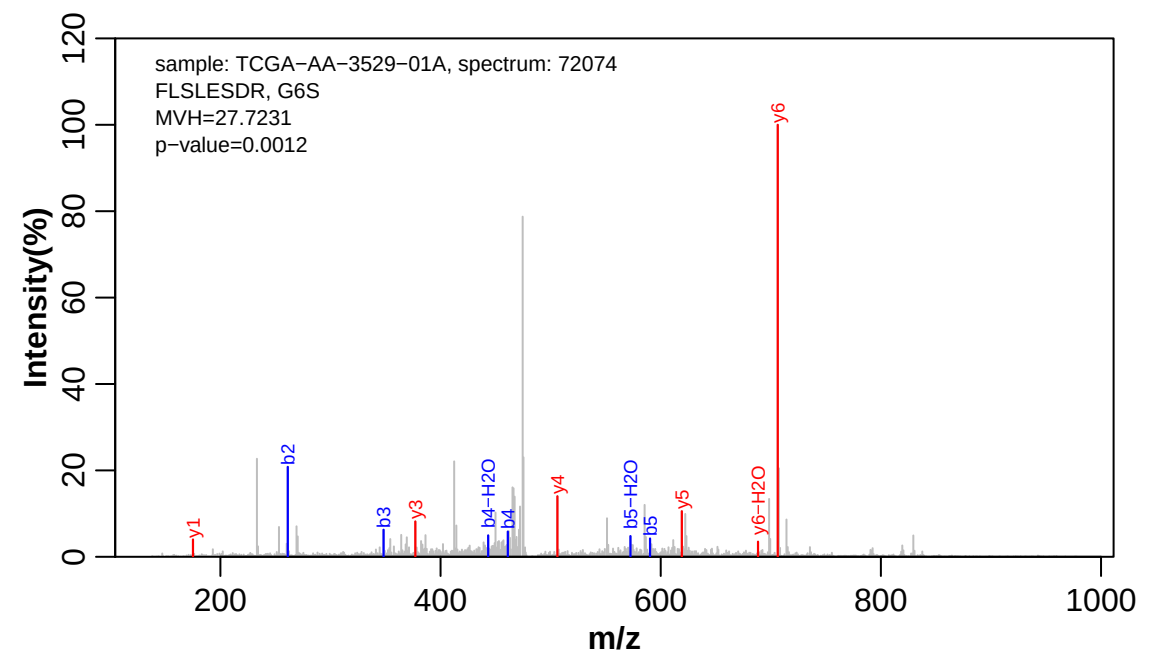

sample: TCGA−AA−3529−01A, spectrum: 64336
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=34.9716
p−value=0.0001
y24++
y20++
y22++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

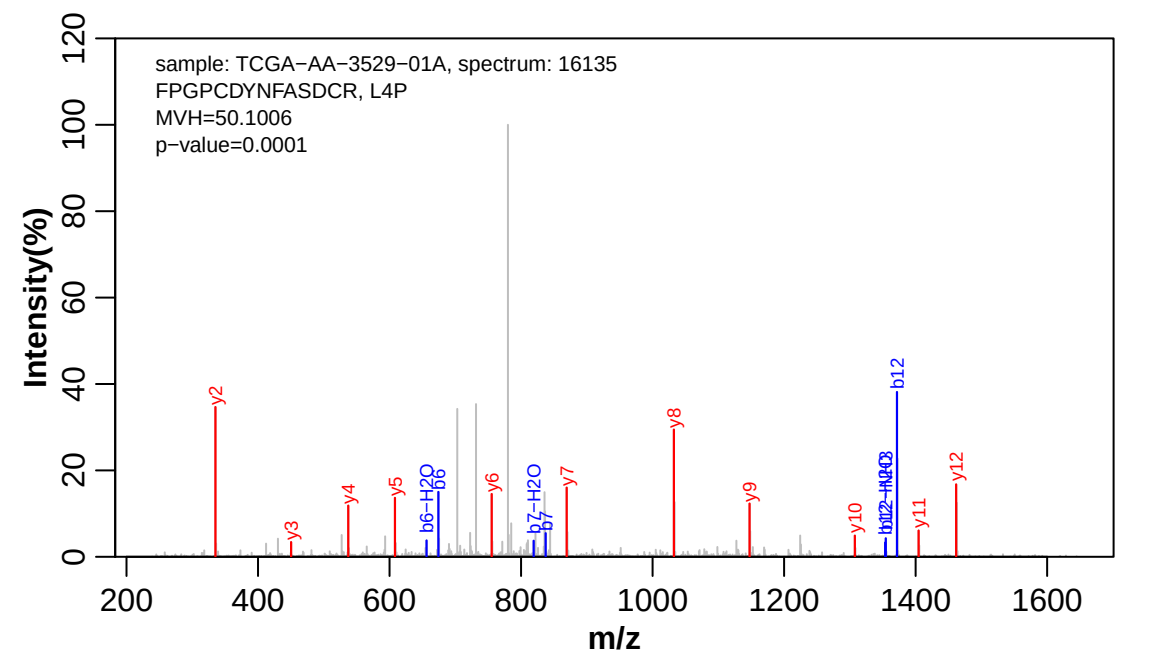

sample: TCGA−AA−3529−01A, spectrum: 72226
FADVFAK, E7K
MVH=35.6403
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

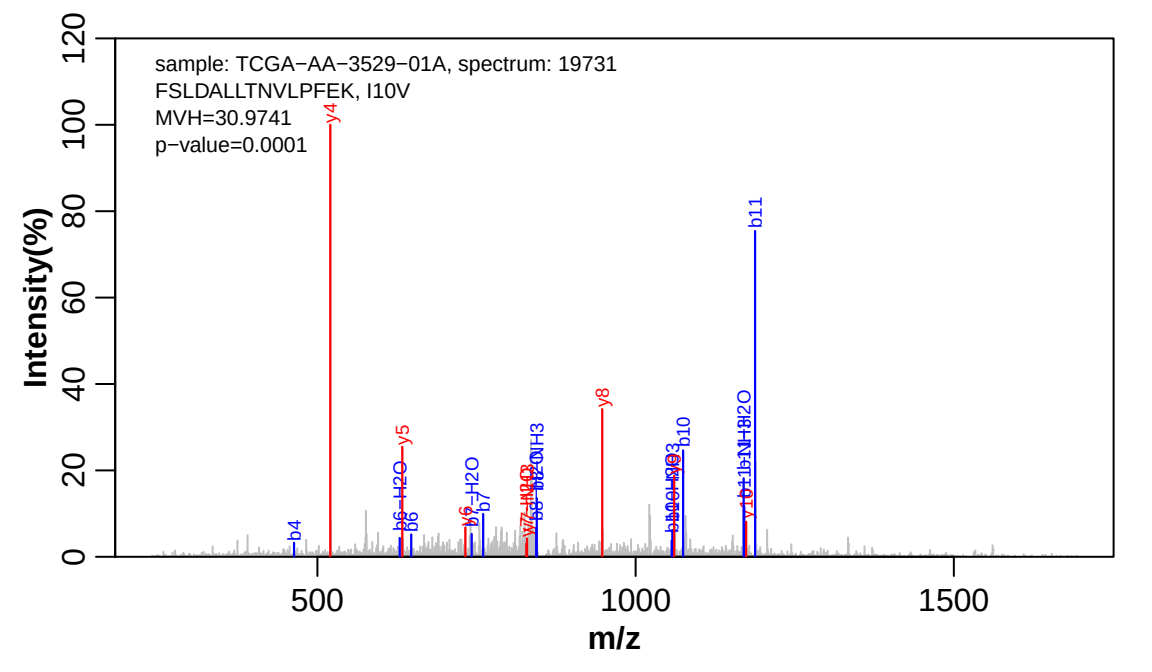

sample: TCGA−AA−3529−01A, spectrum: 6956
FFGSLPDSWAR, S11R
MVH=41.1282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

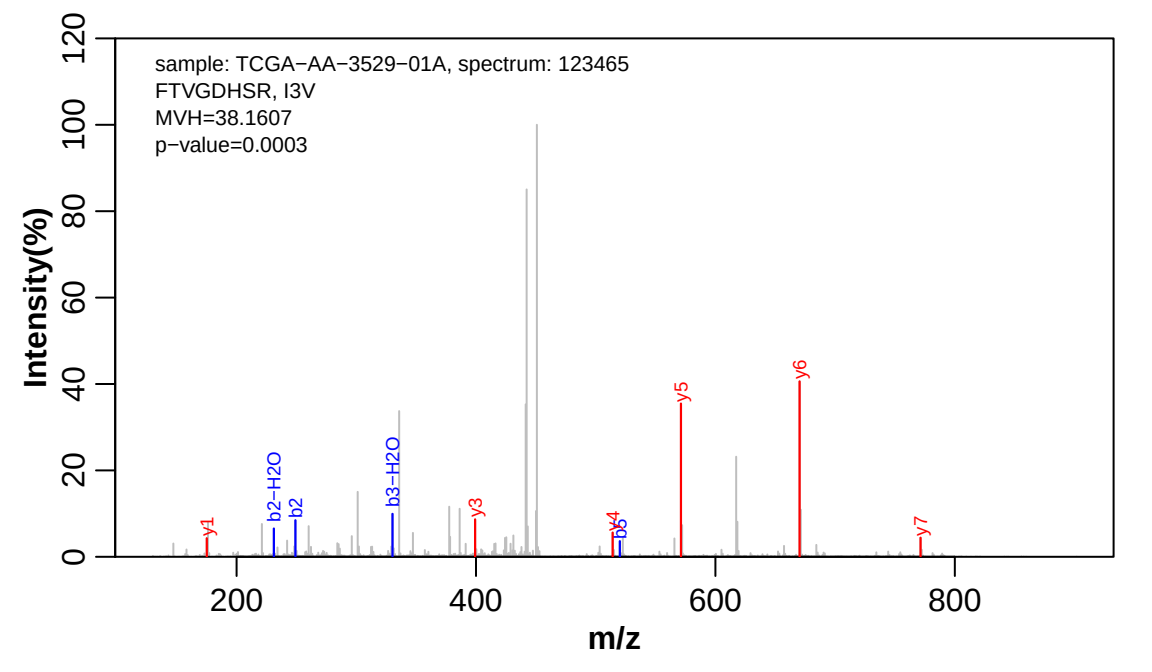

sample: TCGA−AA−3529−01A, spectrum: 71177
FLDKLPQQTGDR, H12R
MVH=45.1069
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b3−NH3
y7++
b7++
y9++
y8++
y5
b2
y1
0
20
40
60
80
100
120
200
400
600
800
1000

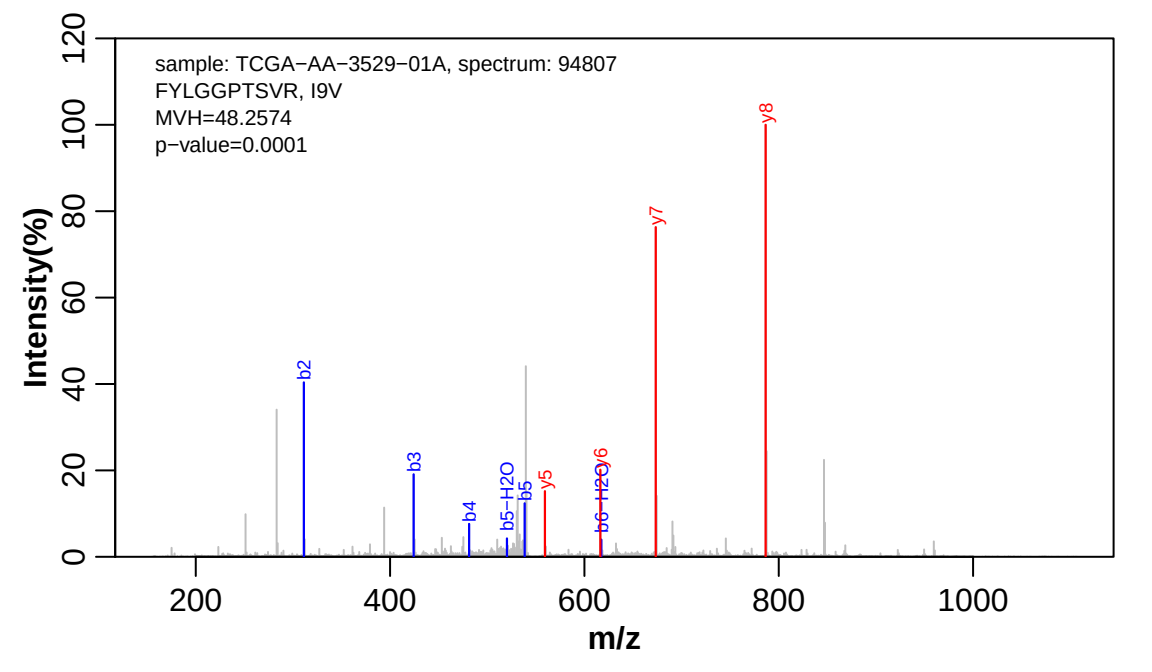

sample: TCGA−AA−3529−01A, spectrum: 53822
FLGQLLTAFPALR, A3G
MVH=35.7507
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
y4
y5
b6−NH3
y7
y8
b8
y9
y11
b12

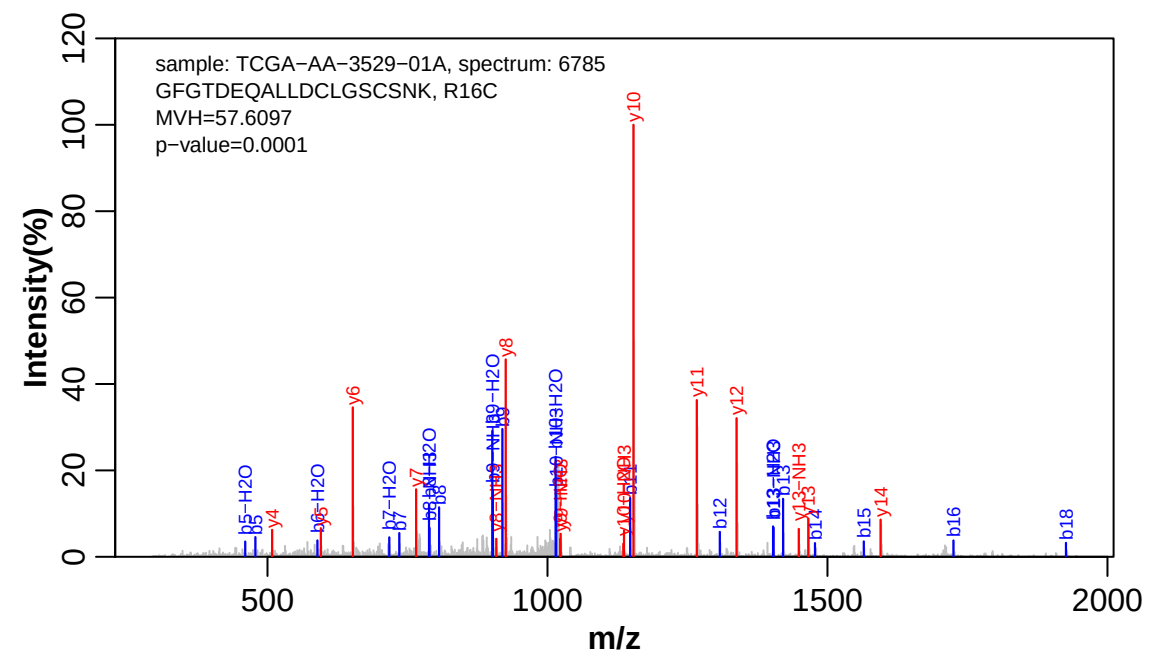

sample: TCGA−AA−3529−01A, spectrum: 72074
FLSLESDR, G6S
MVH=27.7231
p−value=0.0012
Intensity(%)
m/z
y1
b2
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6−H2O
y6

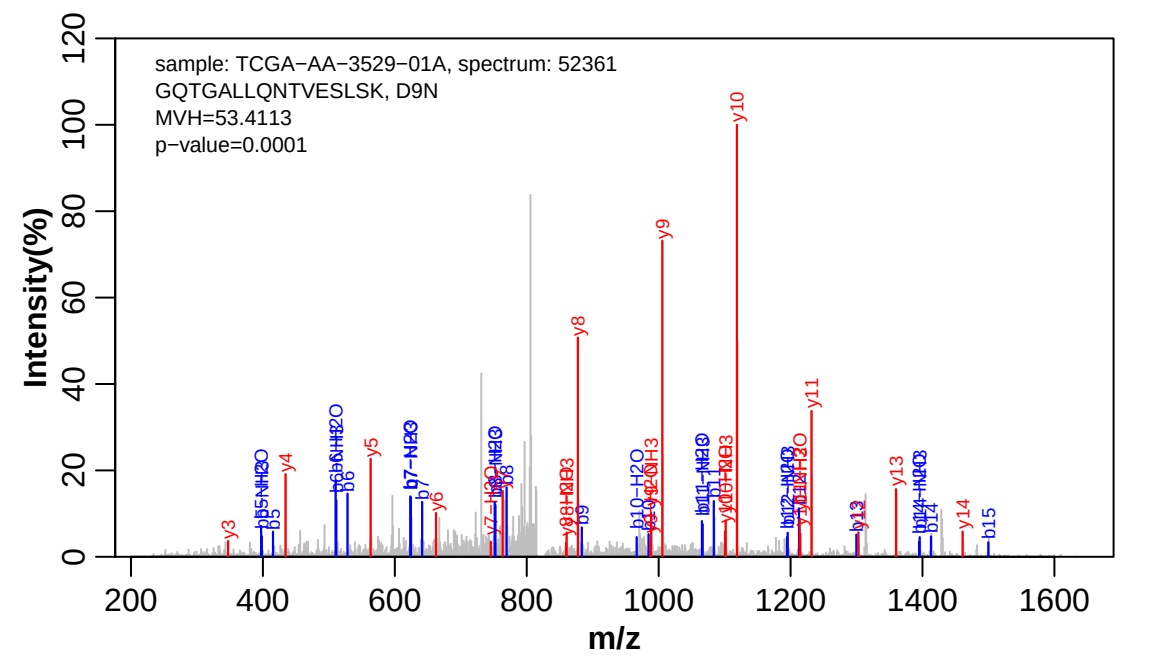

sample: TCGA−AA−3529−01A, spectrum: 16135
FPGPCDYNFASDCR, L4P
MVH=50.1006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9
y10
b12
b12−NH3
y11
y12

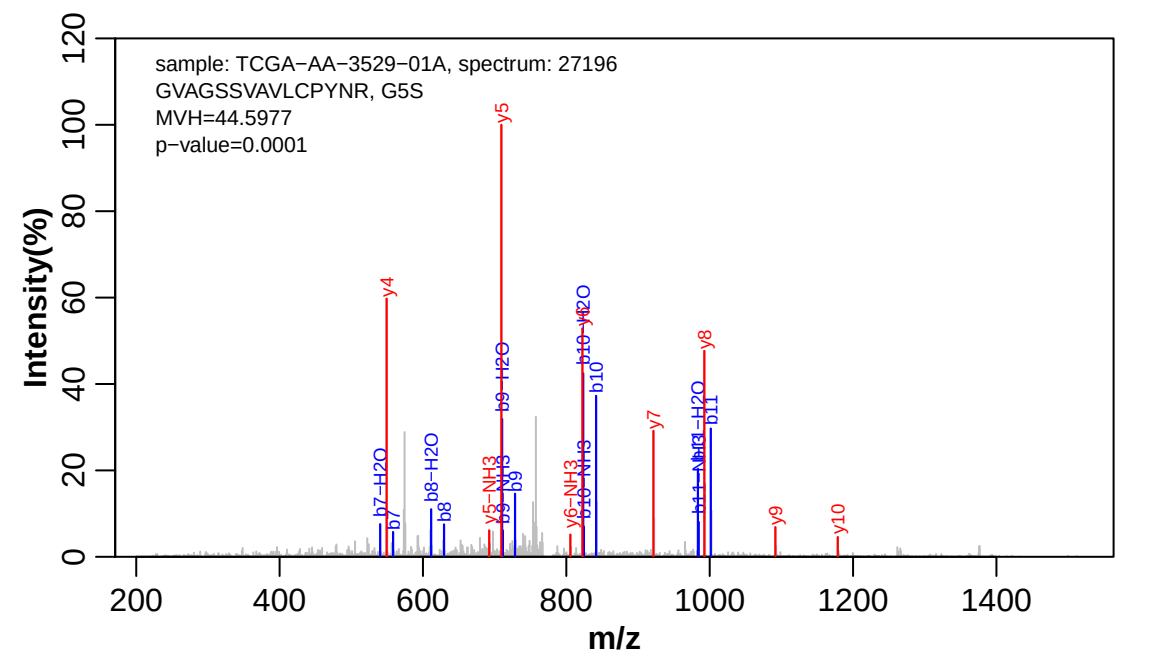

sample: TCGA−AA−3529−01A, spectrum: 19731
FSLDALLTNVLPFEK, I10V
MVH=30.9741
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y8
b11
b10
b4
b6
b6−H2O
y6
y6−H2O
b7
b7−H2O
b8
b8−NH3
b8−H2O
y7
y7−H2O
y7−NH3
y7−H2O−NH3
y10
y10−H2O
y11
y11−H2O
b11−H2O

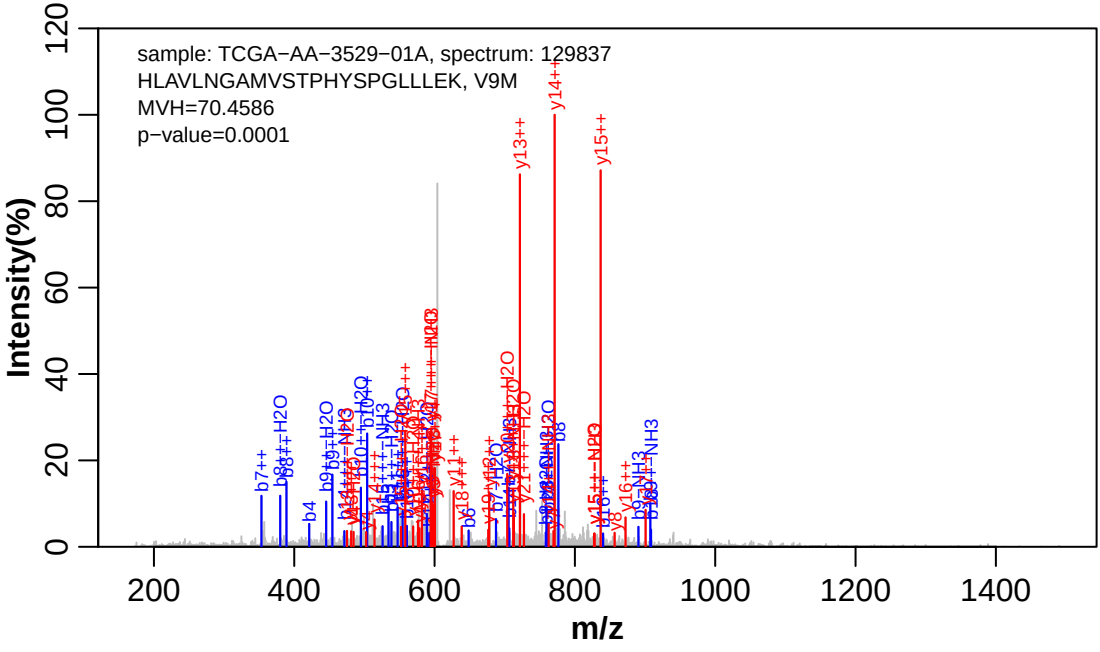

sample: TCGA−AA−3529−01A, spectrum: 123465
FTVGDHSR, I3V
MVH=38.1607
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
b5
y5
y6
y7

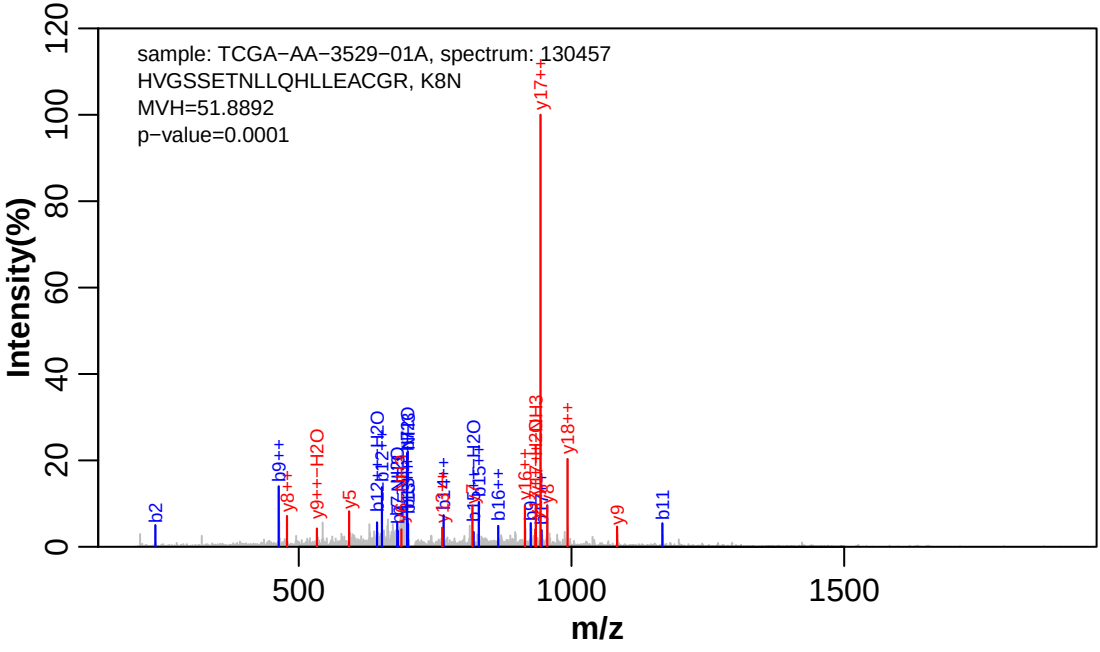

sample: TCGA−AA−3529−01A, spectrum: 94807
FYLGGPTSVR, I9V
MVH=48.2574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5−H2O
b5
y5
b6−H2O
y6
y7
y8

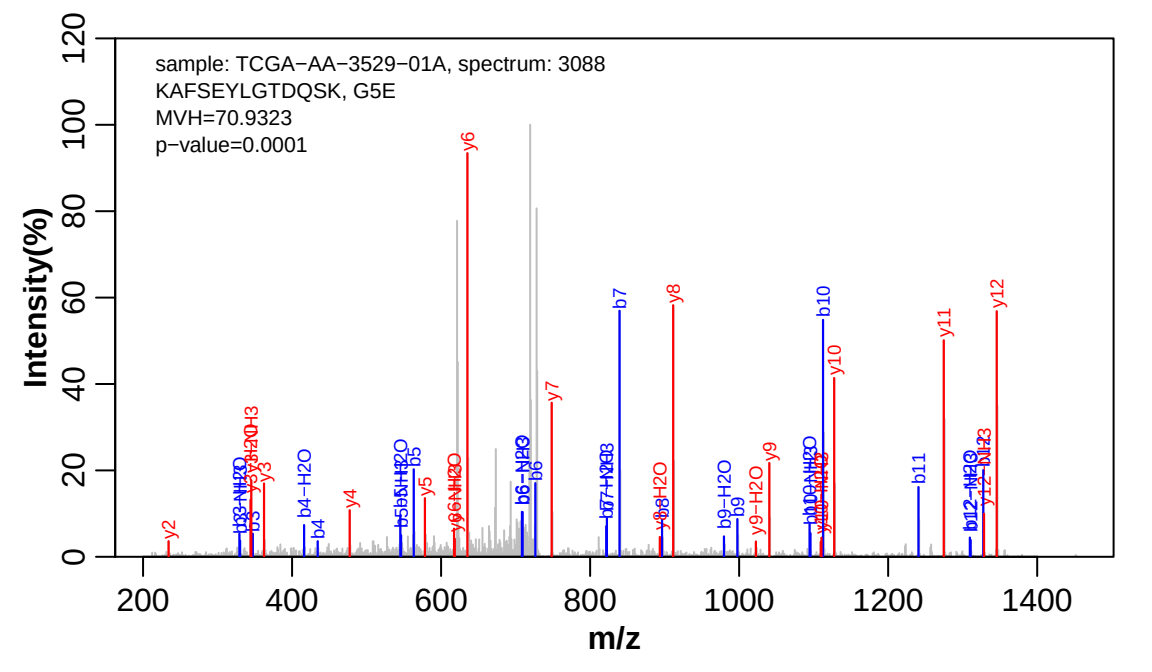

sample: TCGA−AA−3529−01A, spectrum: 6785
GFGTDEQALLDCLGSCSNK, R16C
MVH=57.6097
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y8
y6
y11
y12
y4
b5
b6
b7
b8
b12
b15
b16
b18
y14

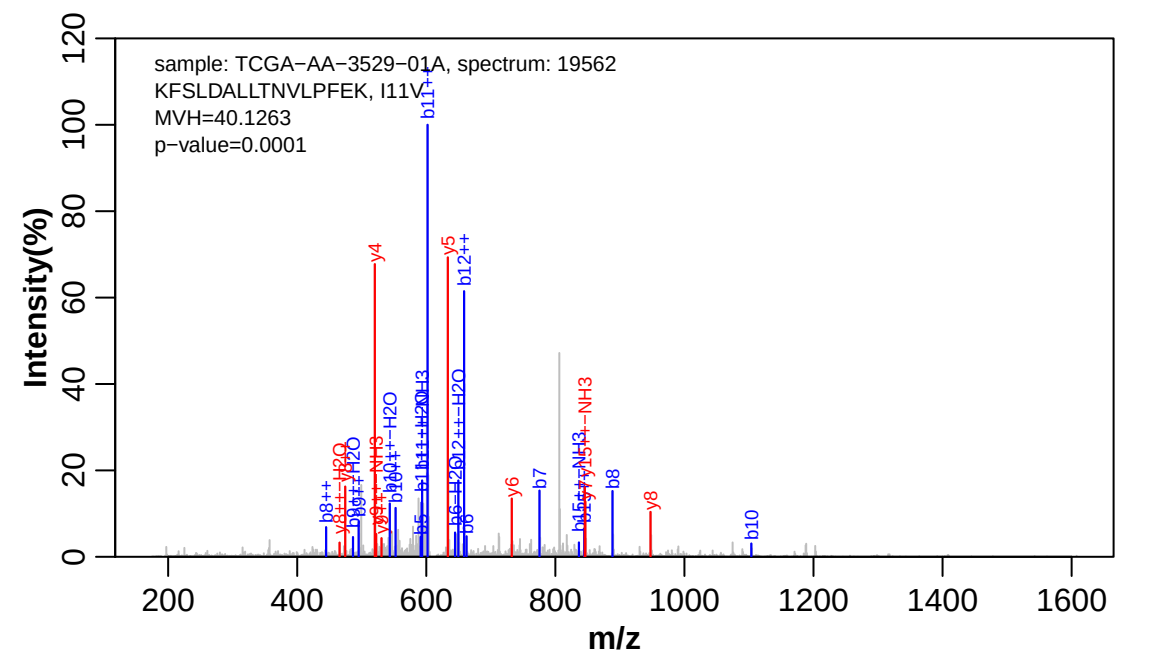

sample: TCGA−AA−3529−01A, spectrum: 52361
GQTGALLQNTVESLSK, D9N
MVH=53.4113
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
y6
y7
y8
y9
y10
y11
y13
y14
b5
b6
b7
b9
b10
b11
b12
b13
b14
b15

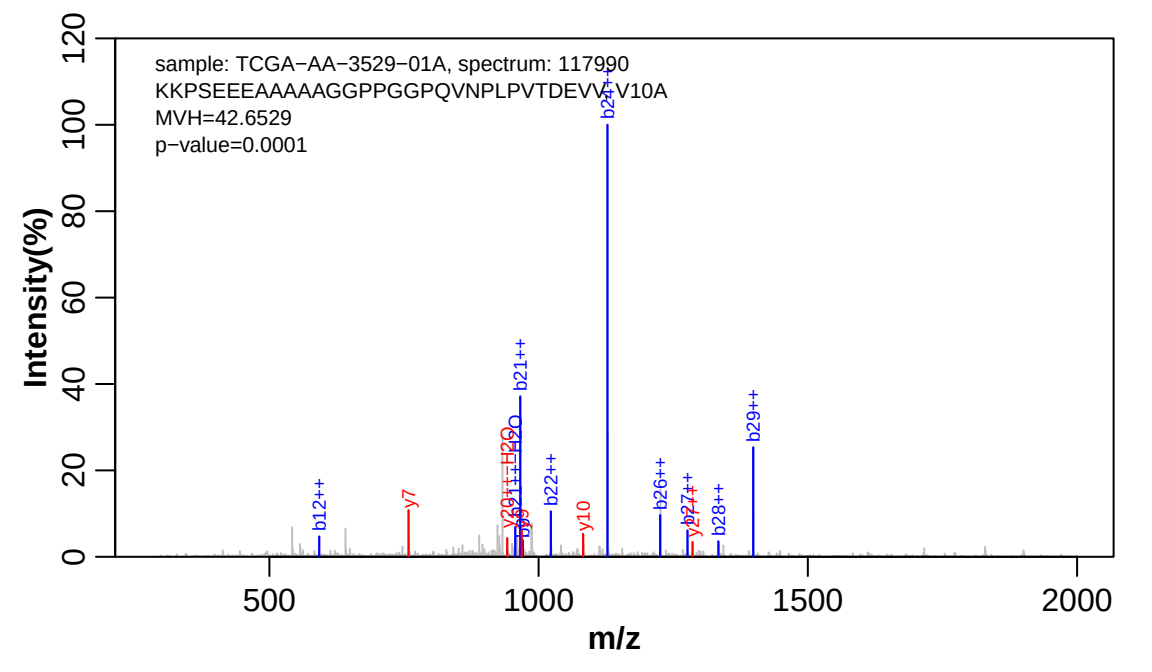

sample: TCGA−AA−3529−01A, spectrum: 27196
GVAGSSVAVLCPYNR, G5S
MVH=44.5977
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11−H2O
b11
y9
y10
b7−H2O
b8−H2O
b7
b8
y5−NH3
b9
y6−NH3
b10−NH3

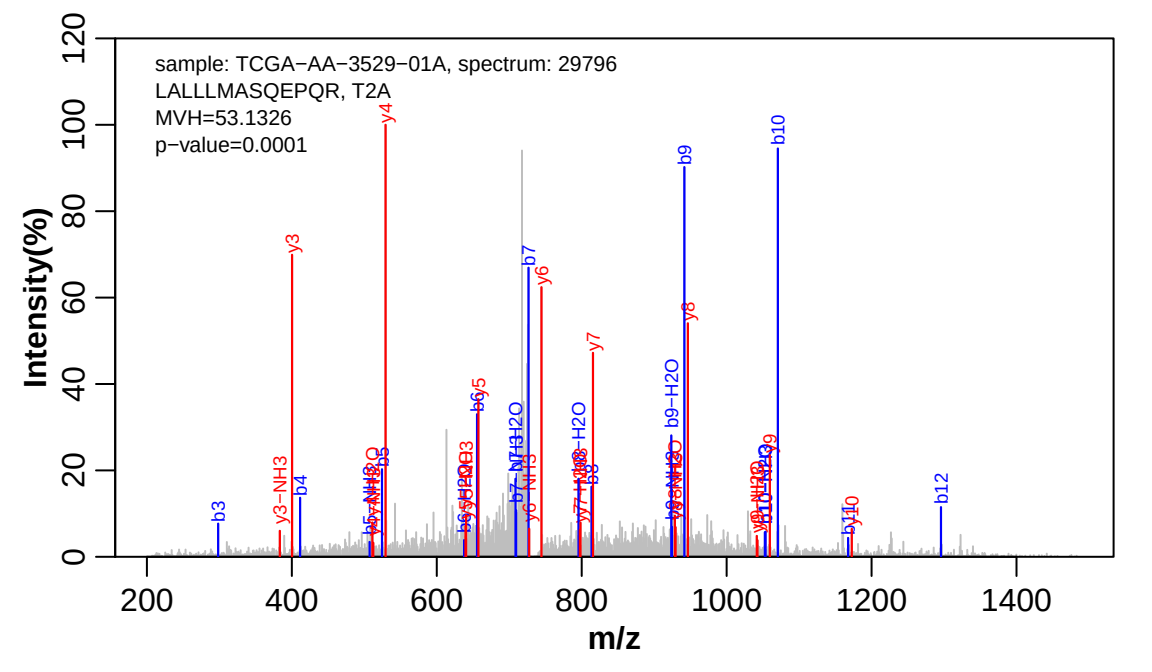

sample: TCGA−AA−3529−01A, spectrum: 129837
HLAVLNGAMVSTPHYSPGLLLEK, V9M
MVH=70.4586
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y14++
y13++
y15++
b7++
b8++−H2O
b4
b9++−H2O
b9++−NH3
b10++−H2O
b10++−NH3
y11++
b6
y16++
b9++−NH3

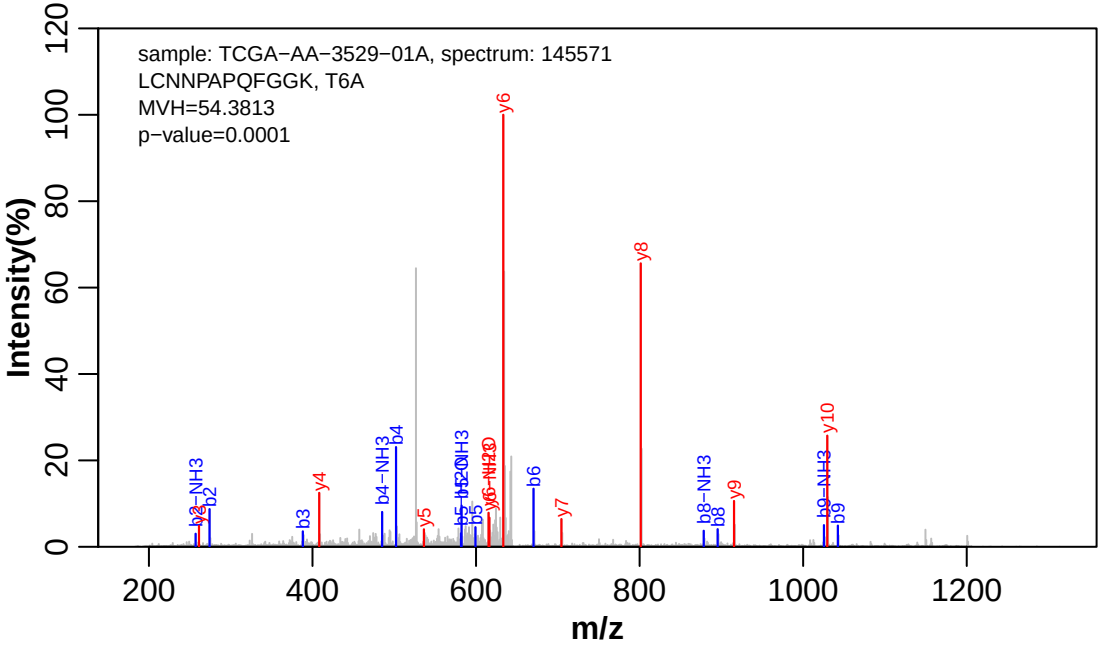

sample: TCGA−AA−3529−01A, spectrum: 130457
HVGSSETNLLQHLLEACGR, K8N
MVH=51.8892
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b9++
y8++
y9++−H2O
y5
y17++
y18++
b16++
y9
b11

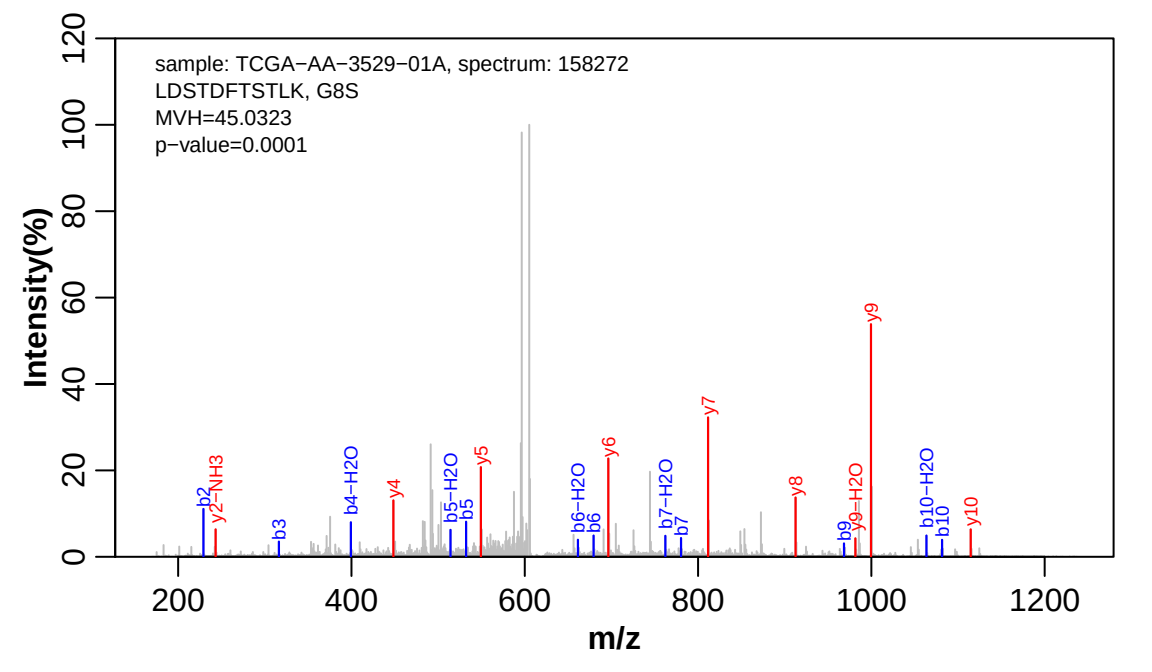

sample: TCGA−AA−3529−01A, spectrum: 3088
KAFSEYLGTDQSK, G5E
MVH=70.9323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4 − H2O
b4
y4
y5
b5
y6
b6
y7
b7
y8
y9
b9 − H2O
b9
y9 − H2O
b10
y10
b11
y11
y12

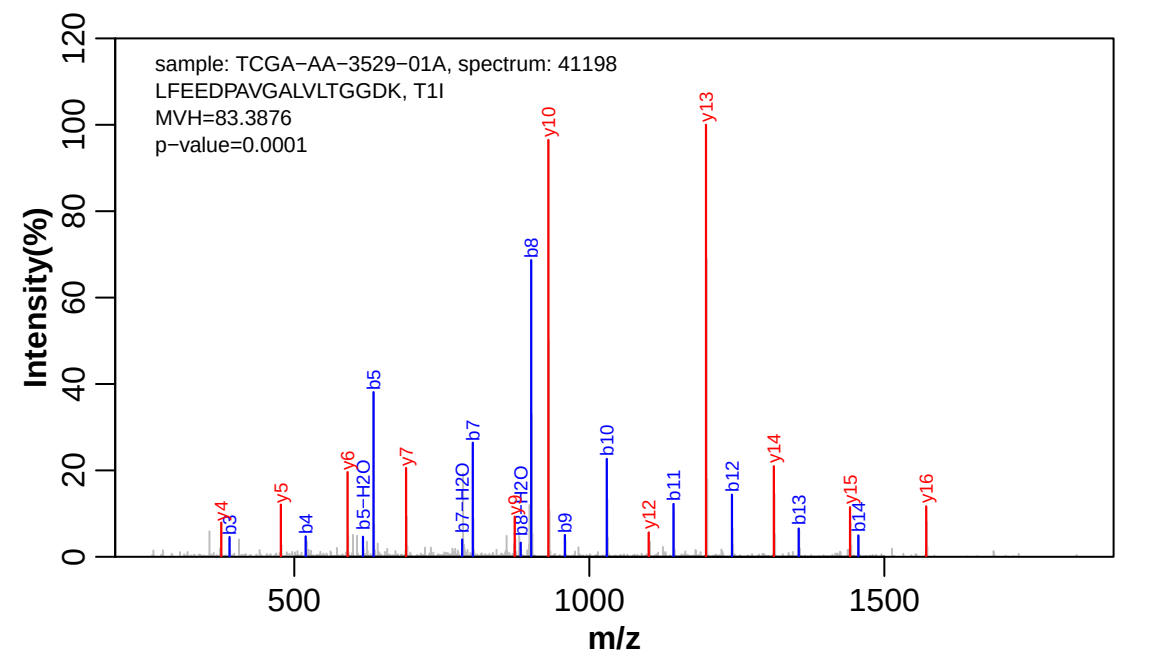

sample: TCGA−AA−3529−01A, spectrum: 19562
KFSLDALLTNVLPFEK, I11V
MVH=40.1263
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b11++
y4
y5
b12++
b12++−H2O
b12++−NH3
y6
b7
b8
y8
b10

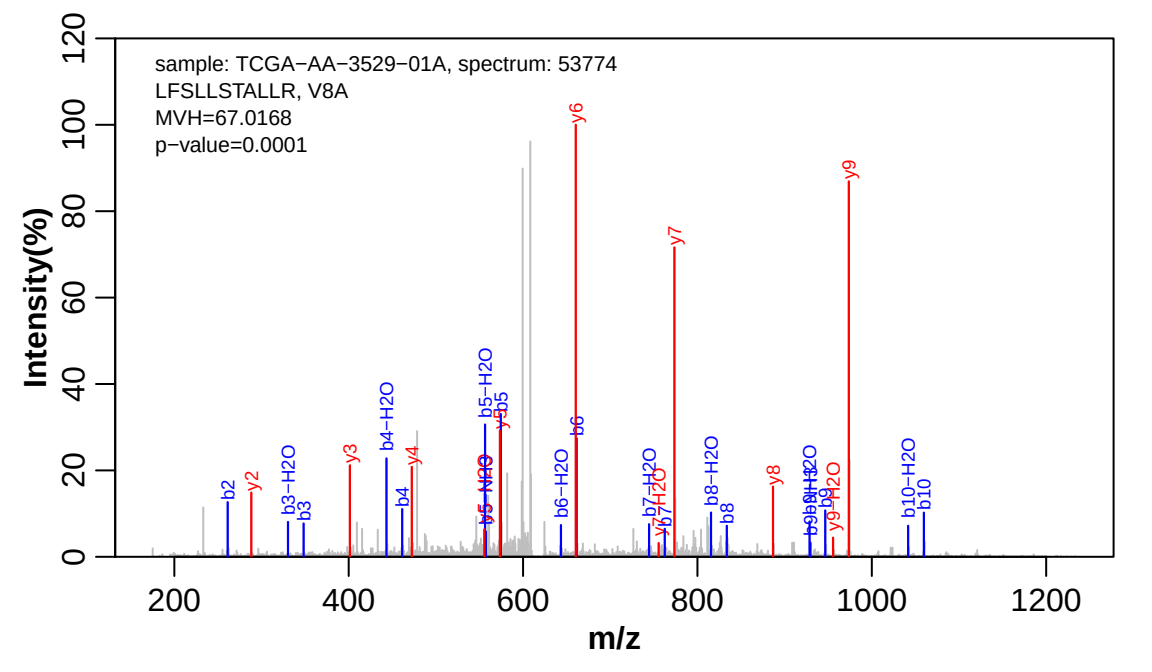

sample: TCGA−AA−3529−01A, spectrum: 117990
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=42.6529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b12++
y7
b21++
b22++
y10
b24++
b26++
b27++
b28++
b29++

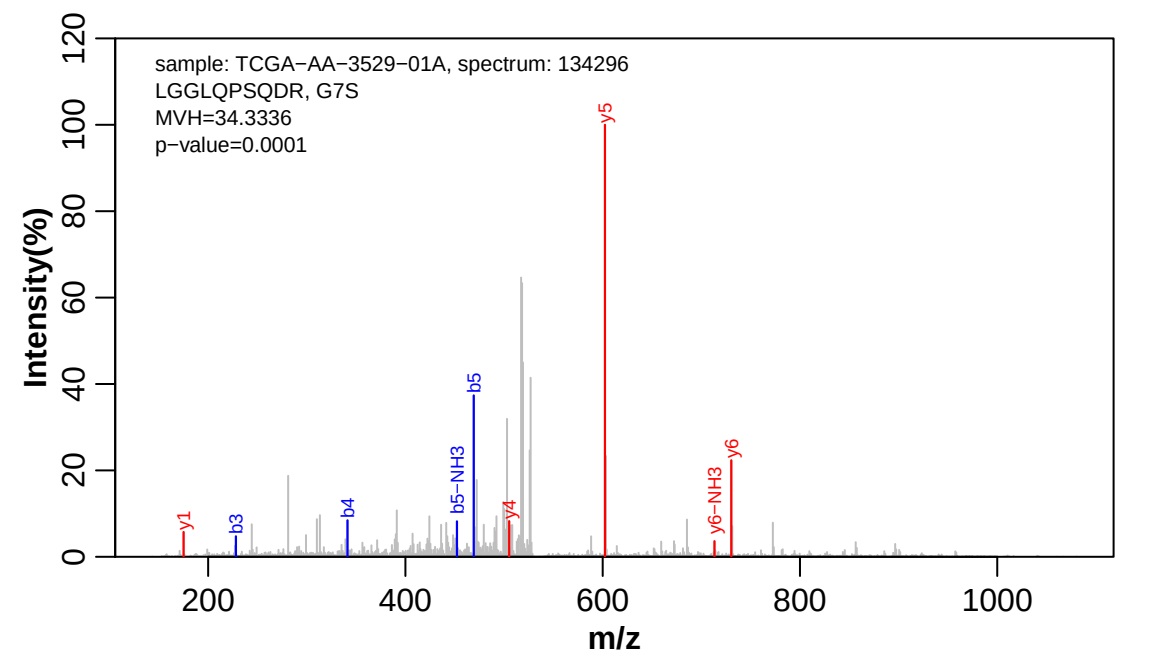

sample: TCGA−AA−3529−01A, spectrum: 29796
LALLLMASQEPQR, T2A
MVH=53.1326
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y3
b10
b9
b7
y6
y8
y7
b5
b6
b9−H2O
b7−H2O
y6−NH3
y3−NH3
b4
b3
b12
b11
y10

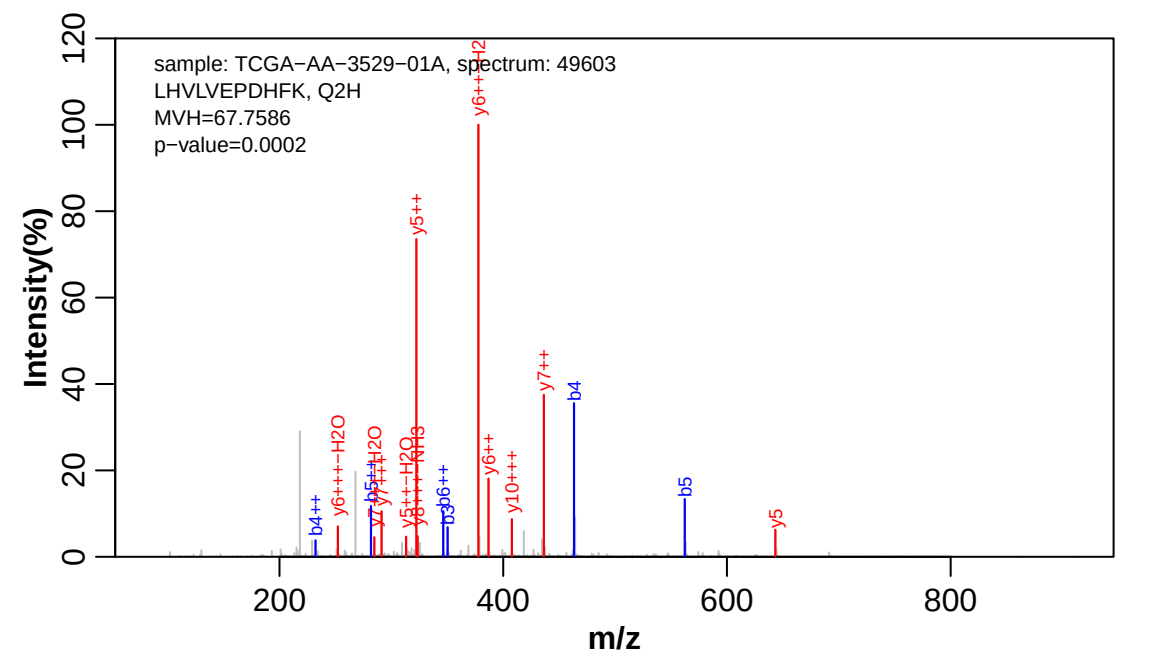

sample: TCGA−AA−3529−01A, spectrum: 145571
LCNNPAPQFGGK, T6A
MVH=54.3813
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y8
y4
y5
y7
y9
y10
b2
b2−NH3
b3
b4
b4−NH3
b5
b5−NH3
b6
b8
b8−NH3
b9
b9−NH3

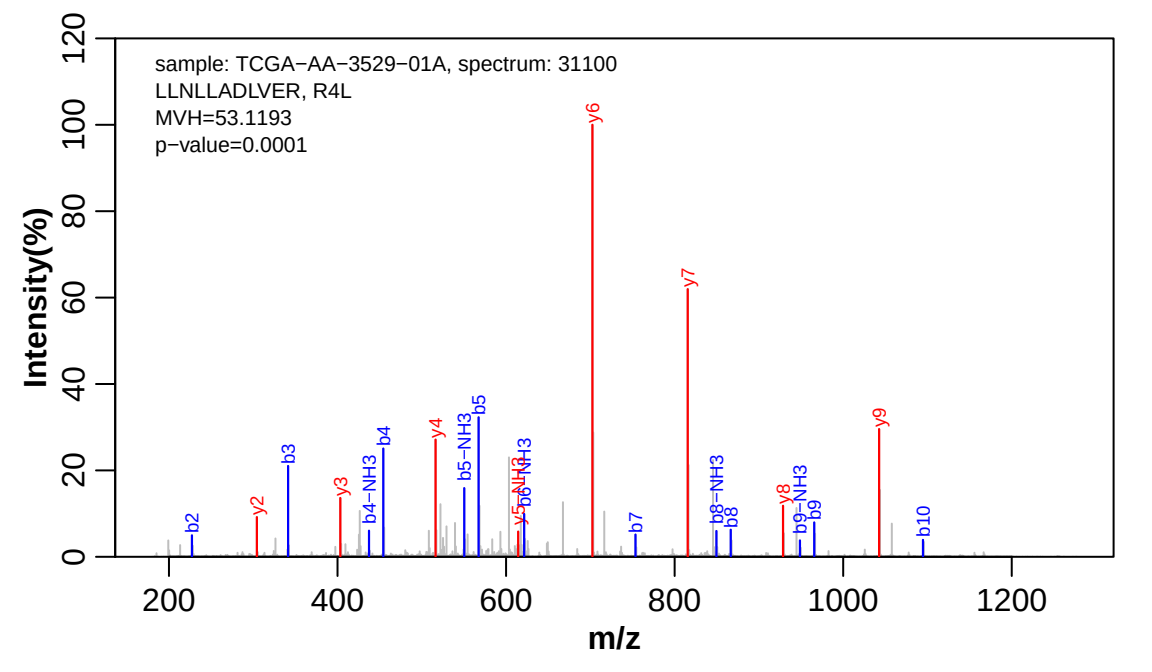

sample: TCGA−AA−3529−01A, spectrum: 158272
LDSTDFTSTLK, G8S
MVH=45.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
b3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
b9
y9−H2O
y9
b10−H2O
b10
y10

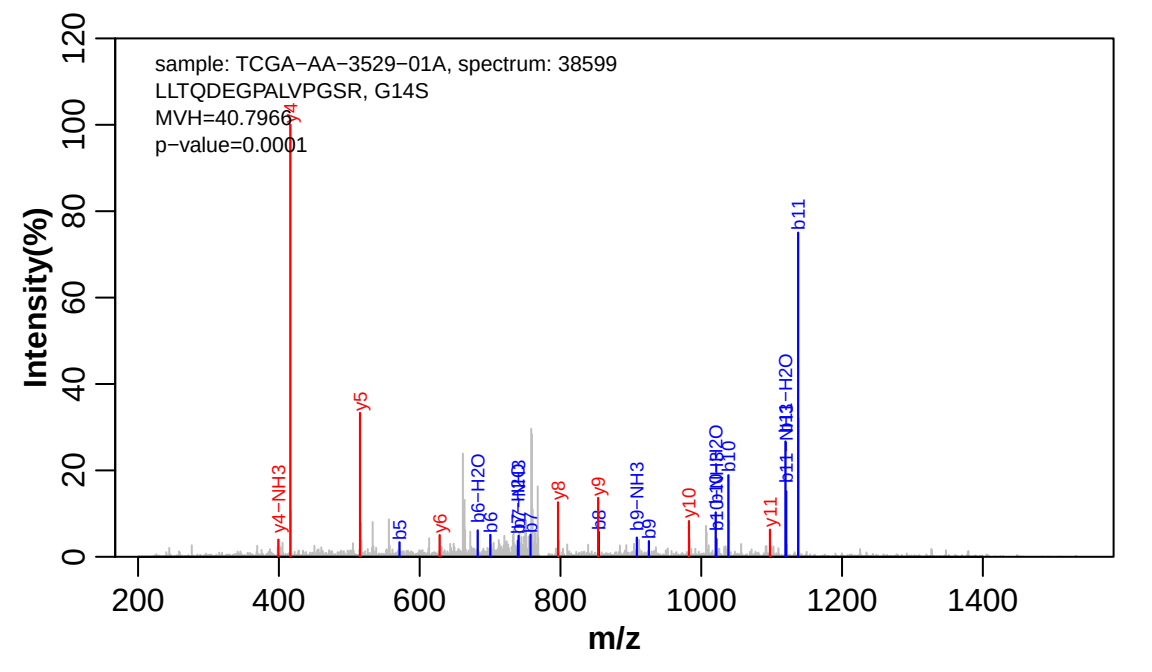

sample: TCGA−AA−3529−01A, spectrum: 41198
LFEEDPAVGALVLTGGDK, T1I
MVH=83.3876
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
y5
b4
y6
b5
b5−H2O
y7
b7
b7−H2O
y8
b8
b8−H2O
y10
b8
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

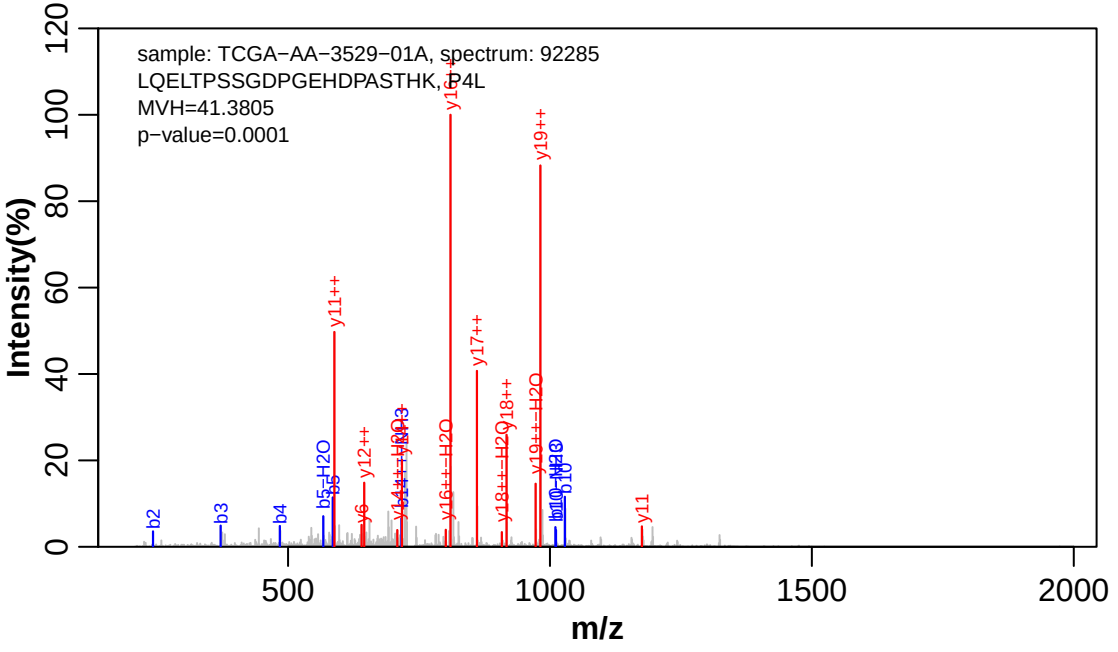

sample: TCGA−AA−3529−01A, spectrum: 53774
LFSLLSTALLR, V8A
MVH=67.0168
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5−NH3
y5
b6
b6−H2O
y6
b7−H2O
y6−H2O
y7
b8−H2O
b8
y8
b9−H2O
b9
y9−H2O
y9
b10−H2O
b10

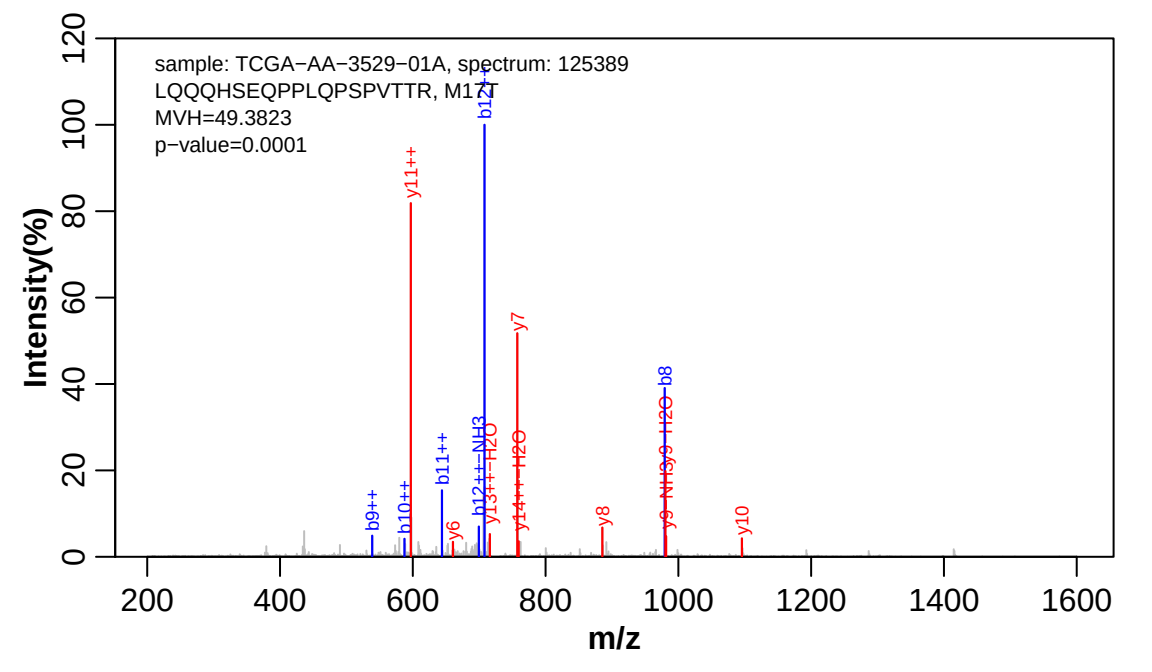

sample: TCGA−AA−3529−01A, spectrum: 134296
LGGLQPSQDR, G7S
MVH=34.3336
p−value=0.0001
Intensity(%)
m/z
y1
b3
b4
b5−NH3
b5
y4
y5
y6−NH3
y6

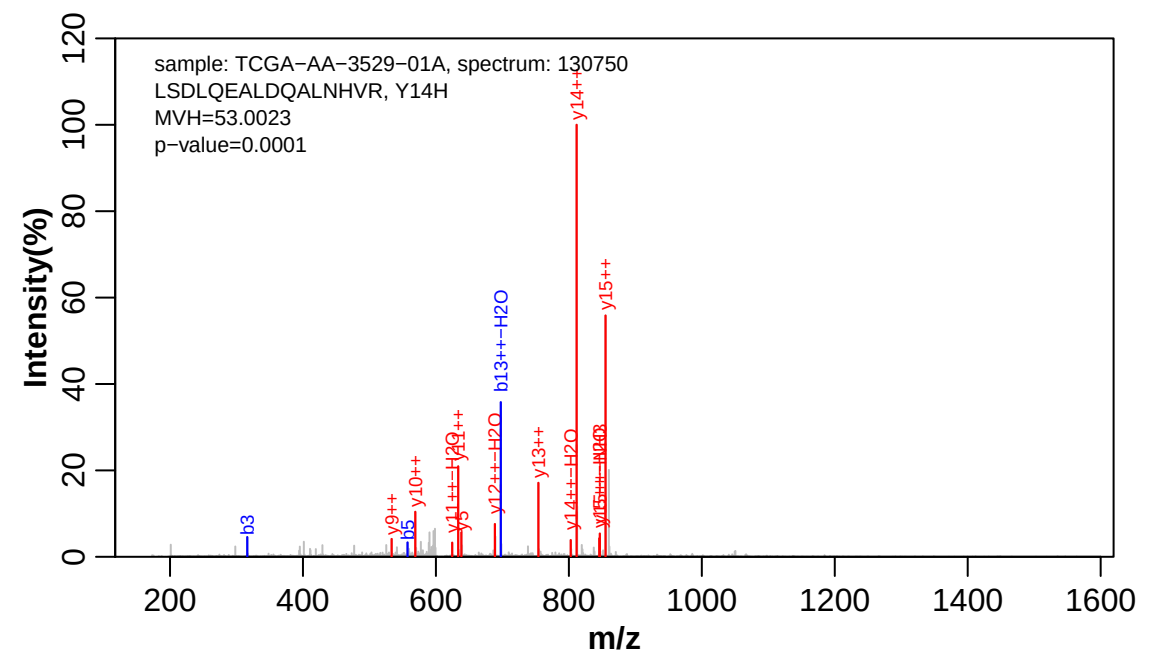

sample: TCGA−AA−3529−01A, spectrum: 49603
LHVLVEPDHFK, Q2H
MVH=67.7586
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b4++
y6+++−H2O
y7++
b5++
y7+++−H2O
y5+++−H2O
y8+++−NH3
b3
b6++
y5++
y6++−H2O
y6++
y10+++
y7++
b4
b5
y5

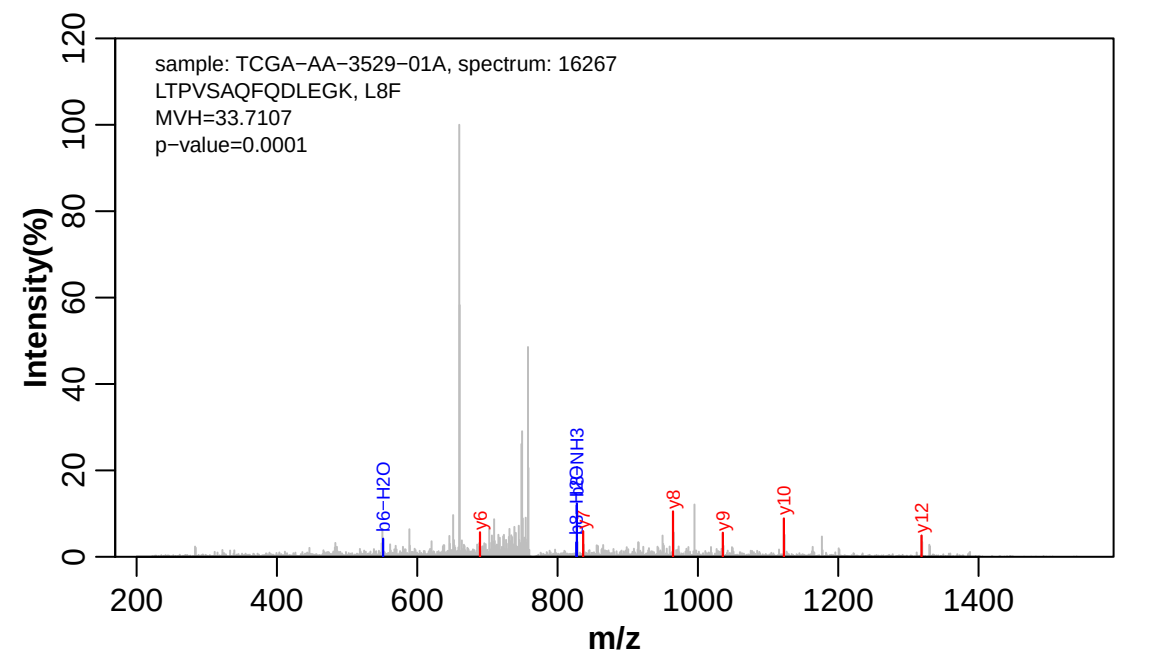

sample: TCGA−AA−3529−01A, spectrum: 31100
LLNLLADLVER, R4L
MVH=53.1193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b6
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

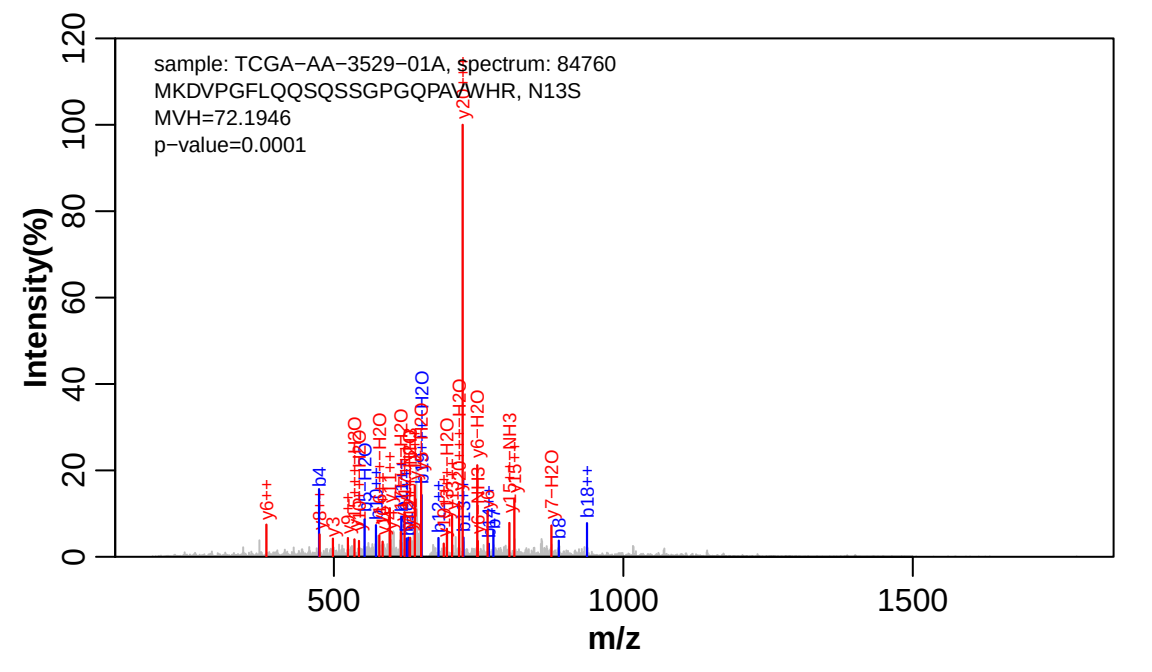

sample: TCGA−AA−3529−01A, spectrum: 38599
LLTQDEGPALVPGSR, G14S
MVH=40.7966
p−value=0.0001
Intensity(%)
m/z
y4
y4−NH3
y5
b5
y6
b6−H2O
b6
b7−NH3
b7
y8
b8−y9
y9
b9−NH3
b9
y10
b10−H2O
b10
y11
b11−NH3
b11−H2O
b11

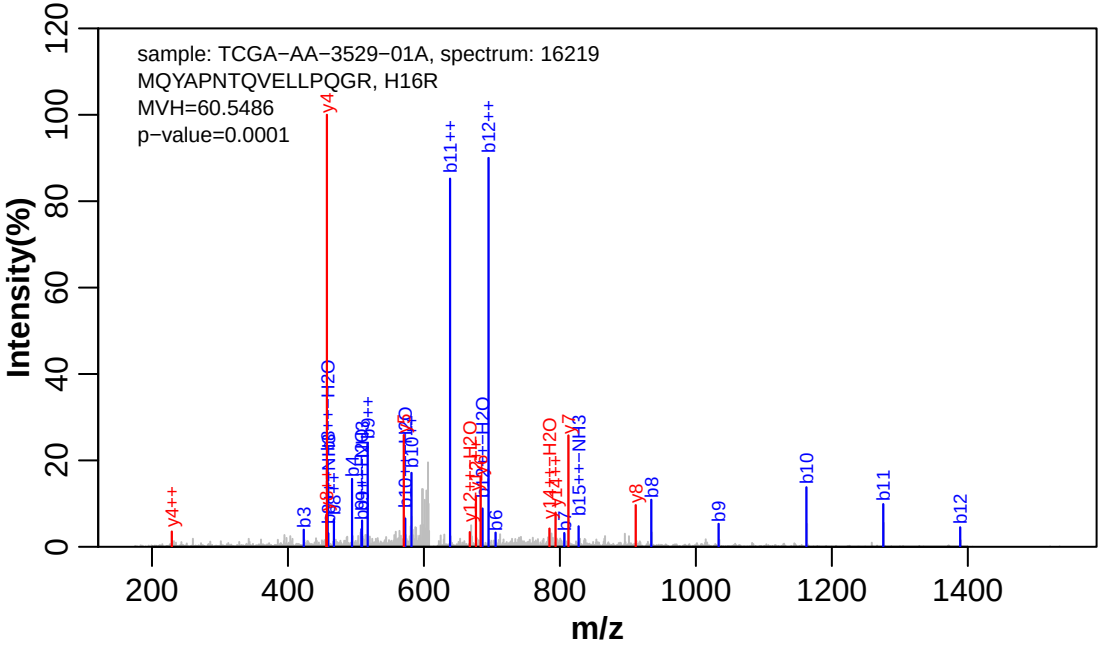

sample: TCGA−AA−3529−01A, spectrum: 92285
LQELTPSSGDPGEHDPASTHK, P4L
MVH=41.3805
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
b3
b4
b5−H2O
b5
y6
y11++
y12++
y16++−H2O
y16++
y17++
y18++−H2O
y18++
y19++−H2O
y19++
y11

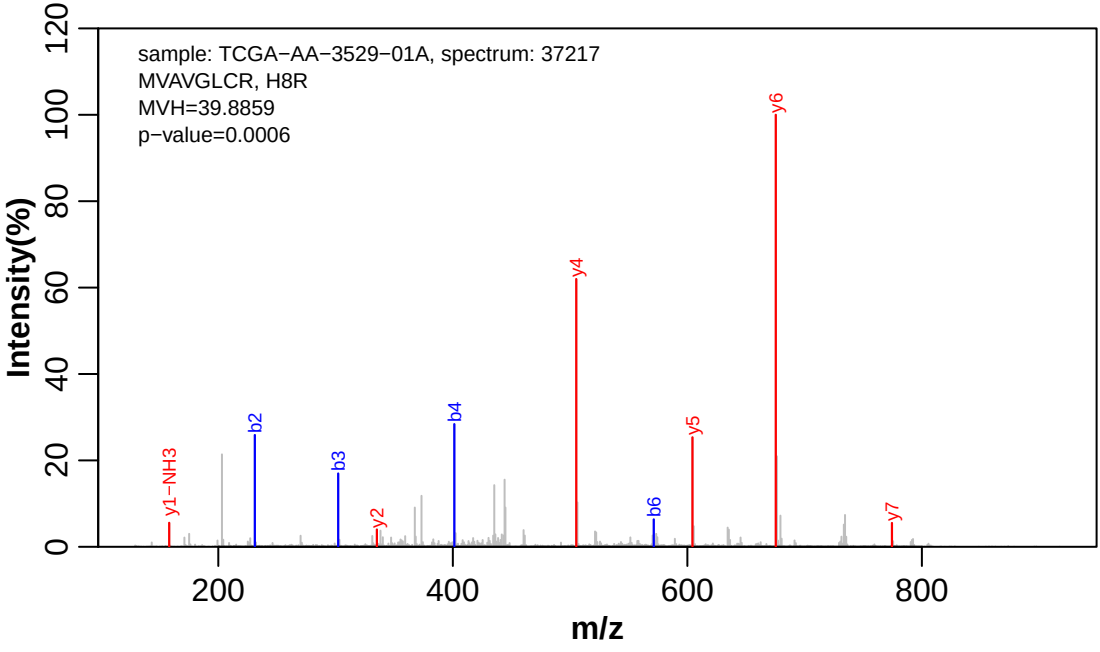

sample: TCGA−AA−3529−01A, spectrum: 125389
LQQQHSEQPPLQPSPVTTR, M12T
MVH=49.3823
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b9++
b10++
y11++
b11++
y6
b12++
b12++−NH3
y13++−H2O
y14++−H2O
y7
y8
y9−NH3
y9−H2O
b8
y10

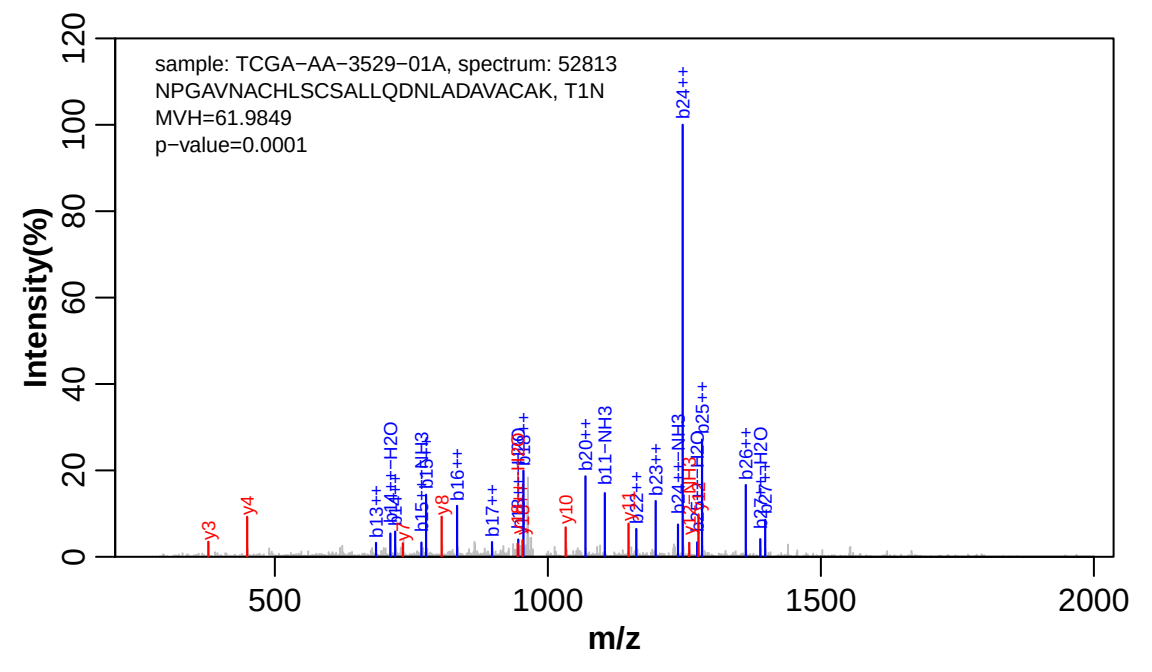

sample: TCGA−AA−3529−01A, spectrum: 130750
LSDLQEALDQALNHVR, Y14H
MVH=53.0023
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y9++
b5
y10++
y11++−H2O
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++

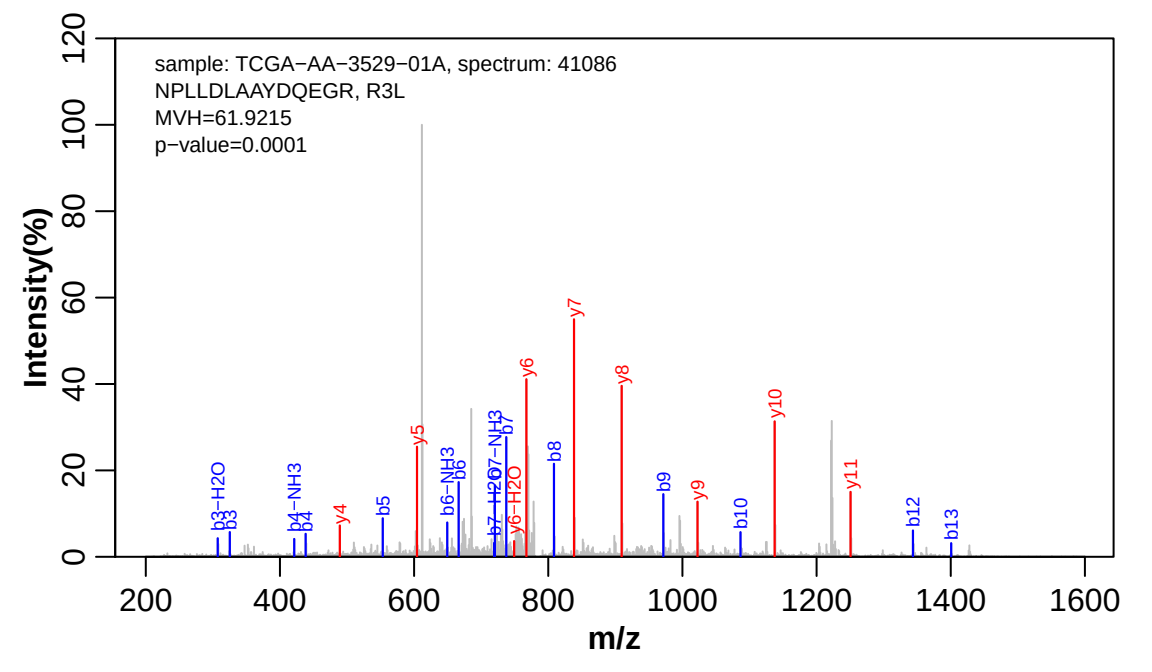

sample: TCGA−AA−3529−01A, spectrum: 16267
LTPVSAQFQDLEGK, L8F
MVH=33.7107
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b6−H2O
y6
b8−NH3
b7−H2O
y8
y9
y10
y12

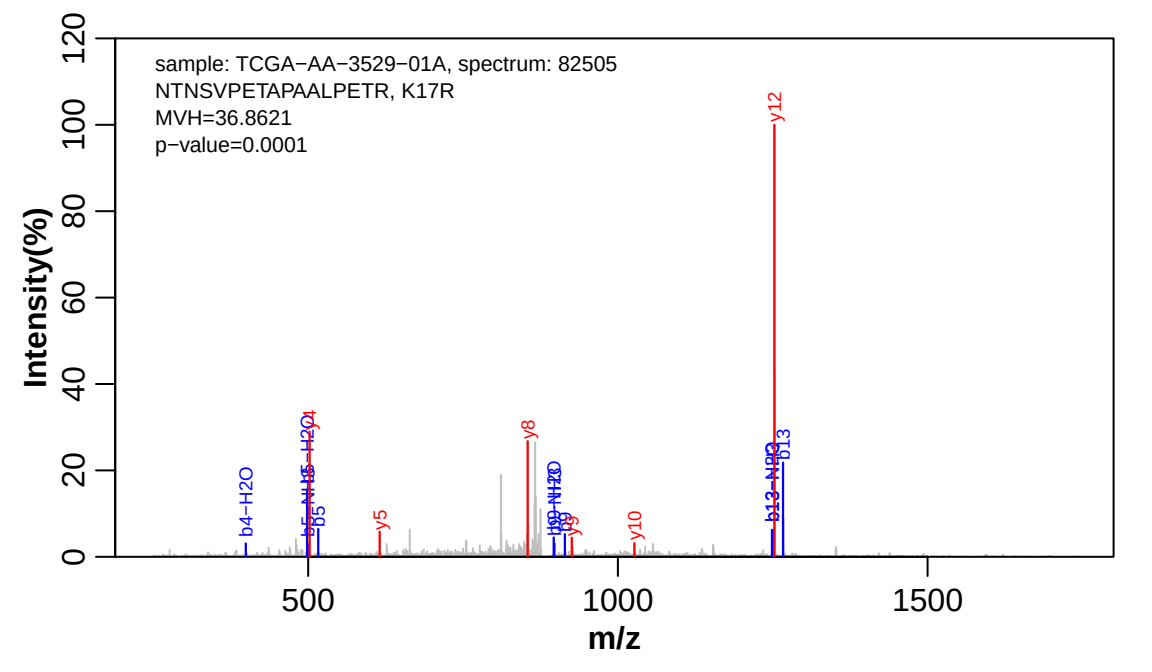

sample: TCGA−AA−3529−01A, spectrum: 84760
MKDVPGFLQQSQSSGPGQPAVAWHR, N13S
MVH=72.1946
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2++
y6++
b2++
b4
y3
y6−H2O
y6−NH3
y15++NH3
y7−H2O
b8
b18++

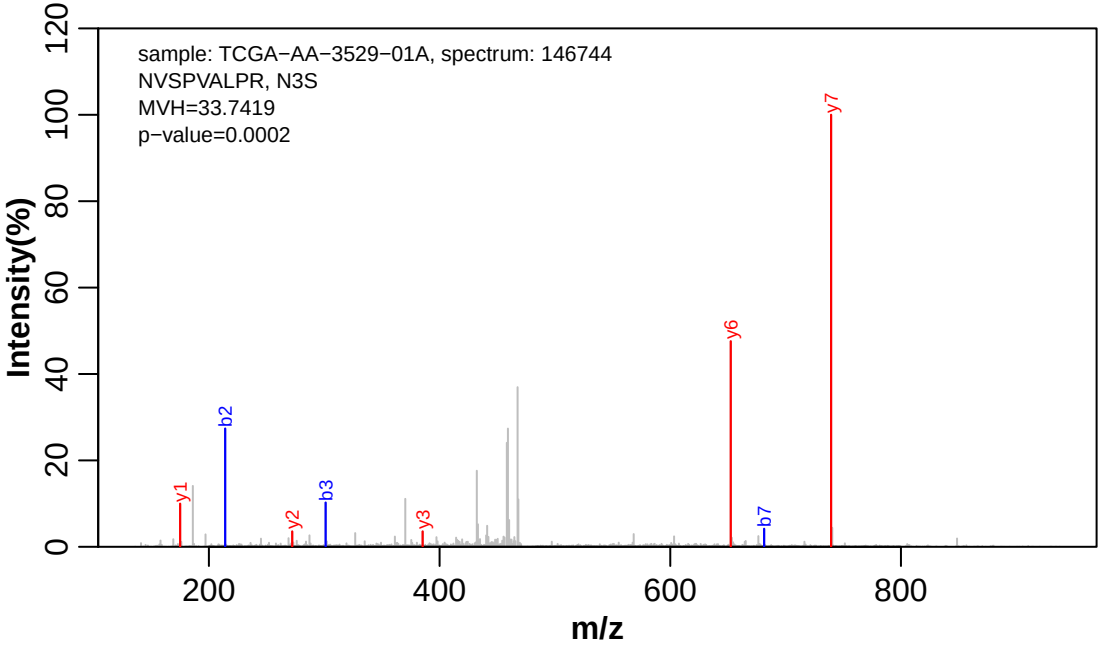

sample: TCGA−AA−3529−01A, spectrum: 16219
MQYAPNTQVELLPQGR, H16R
MVH=60.5486
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y4++
b3
b11++
b12++
b6
y7
y8
b8
b9
b10
b11
b12
b15++−NH3
y14+++H2O

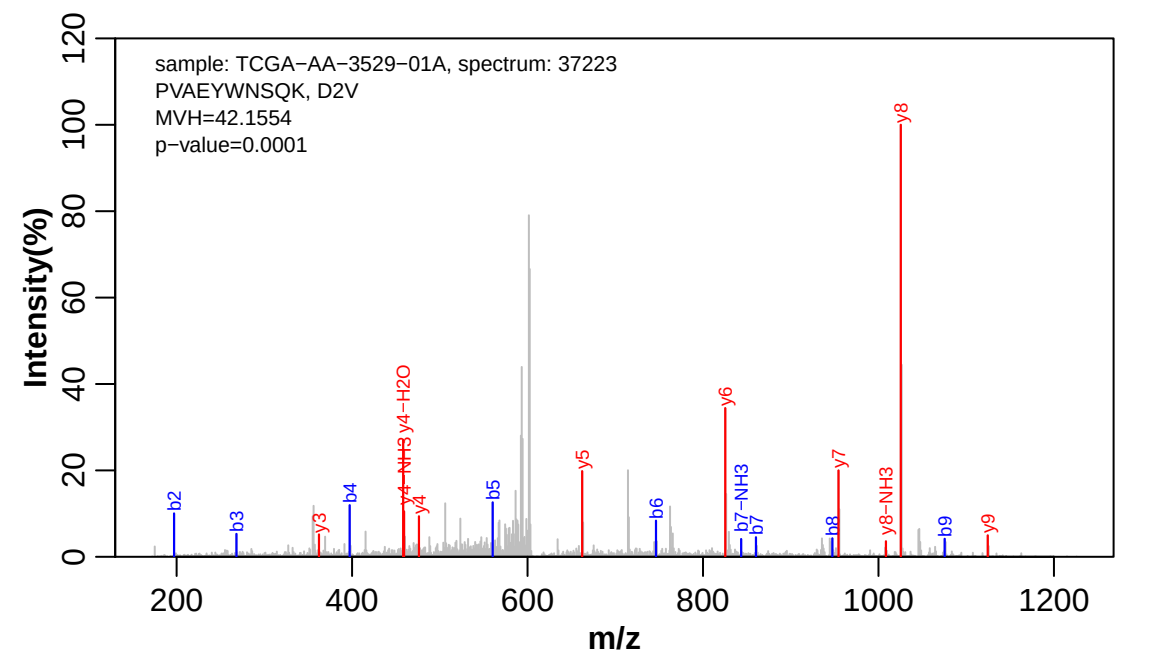

sample: TCGA−AA−3529−01A, spectrum: 37217
MVAVGLCR, H8R
MVH=39.8859
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

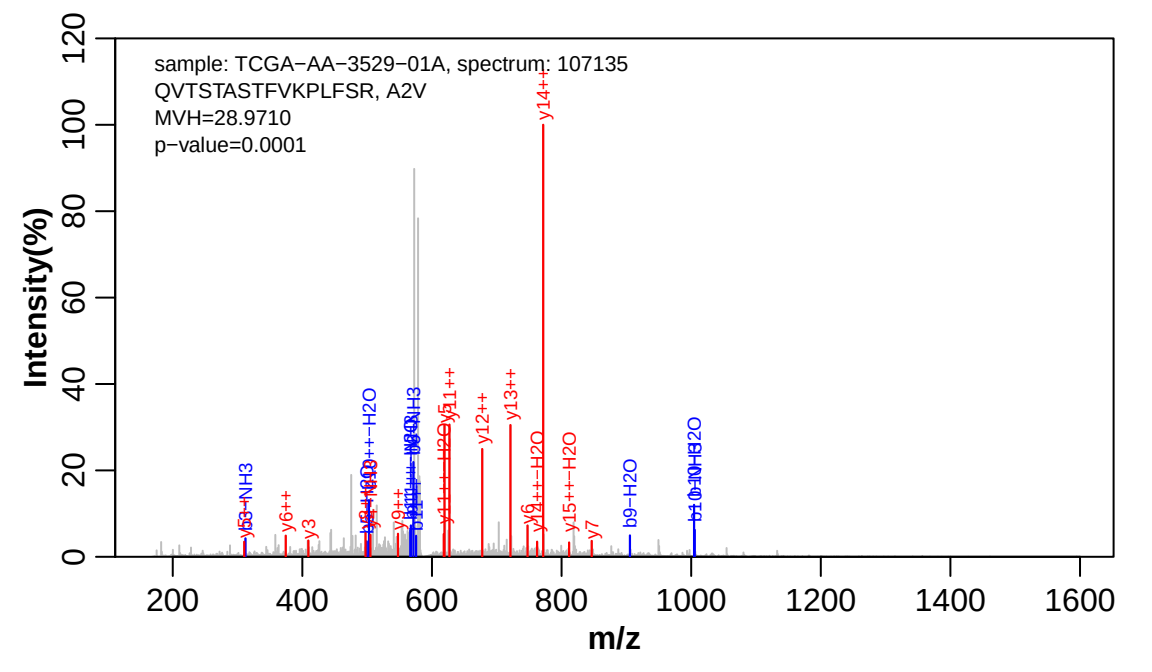

sample: TCGA−AA−3529−01A, spectrum: 52813
NPGAVNACHLSCSALLQDNLADAVACAK, T1N
MVH=61.9849
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b25++
b20++
b11−NH3
b26++
y10
y8
y4
y3
b16++
b17++
b13++
b23++
b22++
y11

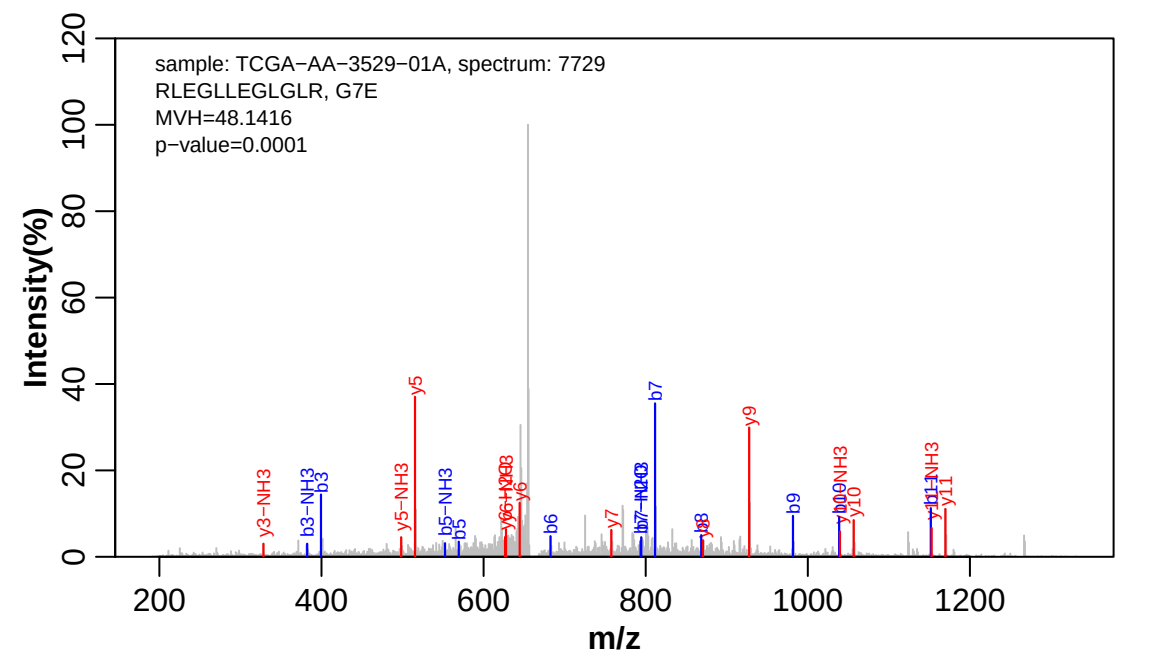

sample: TCGA−AA−3529−01A, spectrum: 41086
NPLLDLAAYDQEGR, R3L
MVH=61.9215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4−NH3
b4
y4
b5
y5
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6−H2O
y6
y7
b8
y8
b9
y9
b10
y10
y11
b12
b13

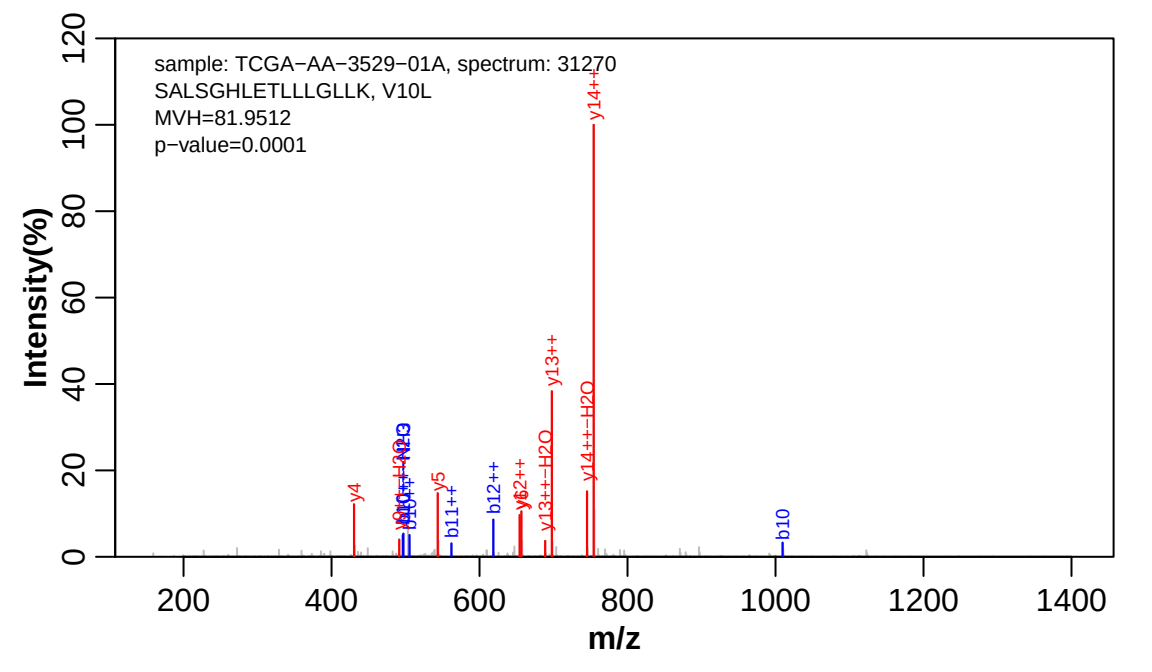

sample: TCGA−AA−3529−01A, spectrum: 82505
NTNSVPETAPAALPETR, K17R
MVH=36.8621
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
y10
b13
b4−H2O
b5
0
20
40
60
80
100
120
500
1000
1500

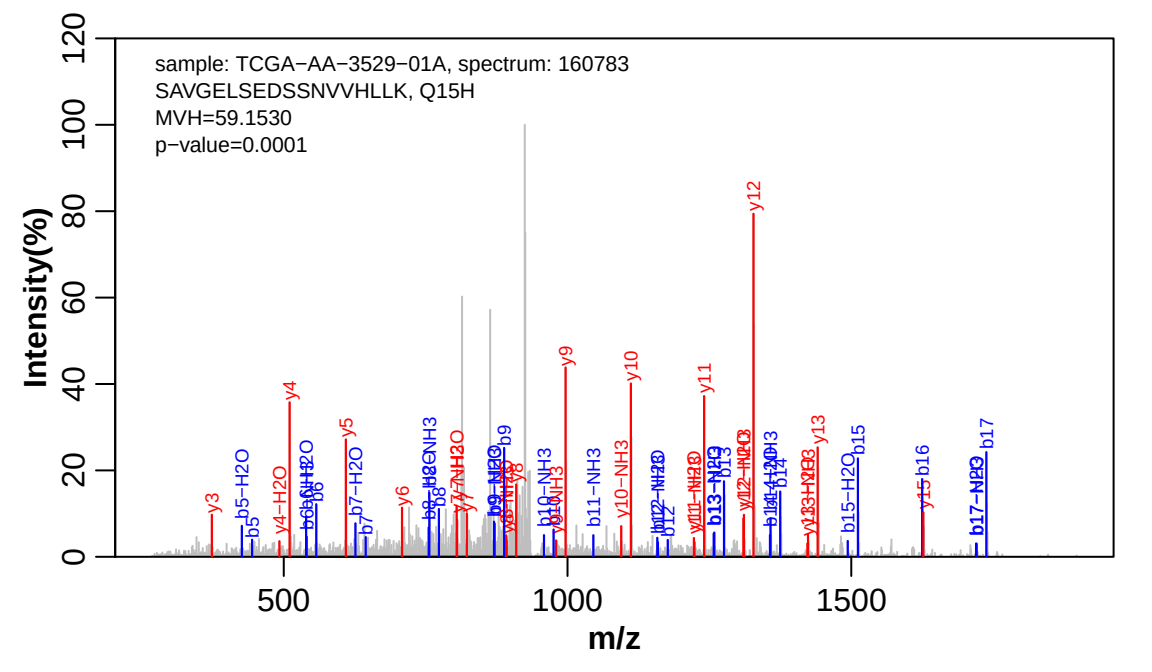

sample: TCGA−AA−3529−01A, spectrum: 146744
NVSPVALPR, N3S
MVH=33.7419
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
y6
b7
y7

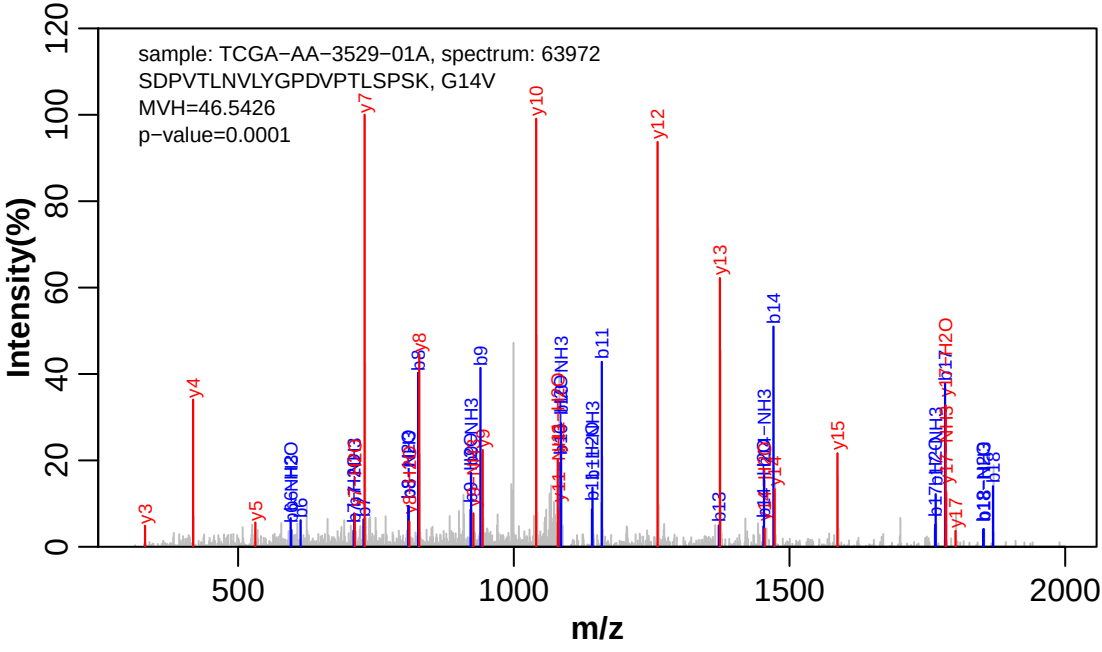

sample: TCGA−AA−3529−01A, spectrum: 37223
PVAEYWNSQK, D2V
MVH=42.1554
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4
y4−NH3
y4−H2O
y4
b5
y5
b6
y6
b7−NH3
b7
b8
y7
y8−NH3
y8
b9
y9

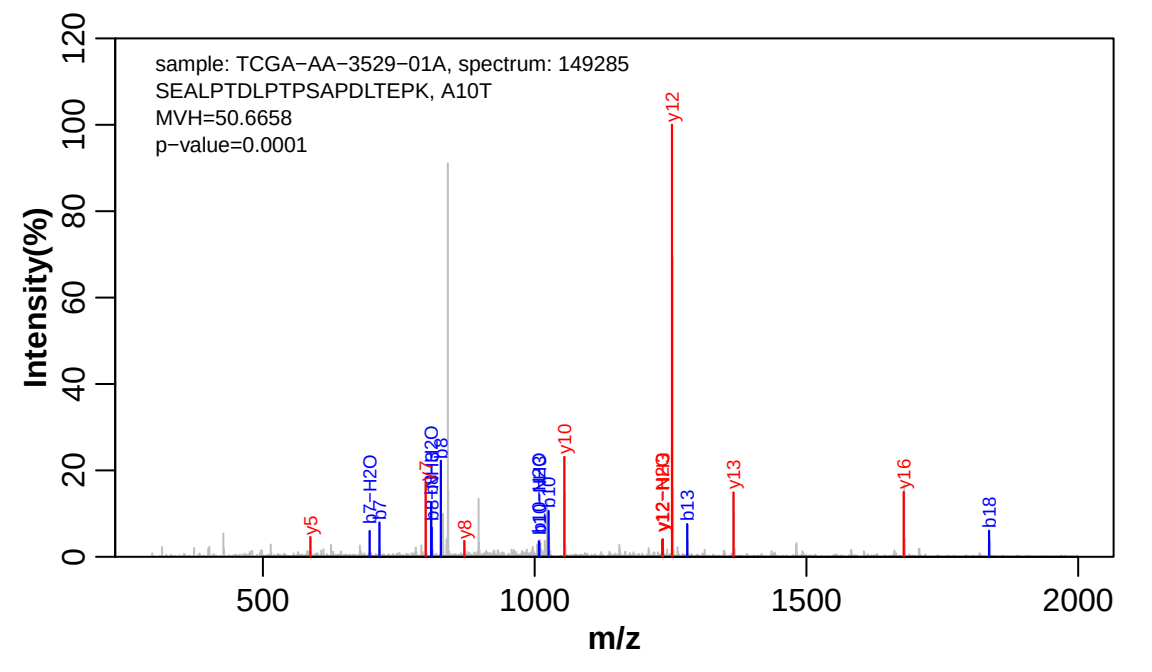

sample: TCGA−AA−3529−01A, spectrum: 107135
QVTSTASTFVKPLFSR, A2V
MVH=28.9710
p−value=0.0001
Intensity(%)
m/z
y14++
y11++
y12++
y13++
y6++
y3
y15++−H2O
y7
b9−H2O
y14++−H2O
y11++−H2O
y6++−H2O
y3++−H2O
y6++−NH3
y3++−NH3
y9++
y8++
b8++
b12++
b10++−H2O
b10++−NH3

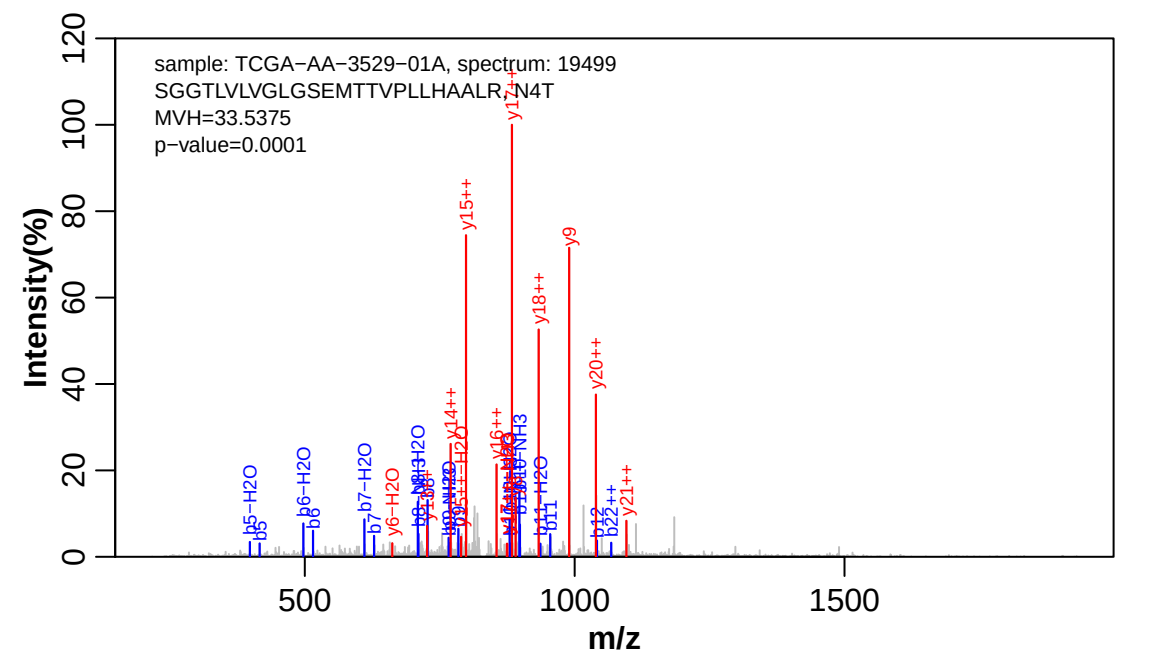

sample: TCGA−AA−3529−01A, spectrum: 7729
RLEGLLEGLGLR, G7E
MVH=48.1416
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3−NH3
b3−NH3
b3
y5
y5−NH3
b5−NH3
b5
y6
b6
y7
b7
y9
b9
y10
y11
y11−NH3

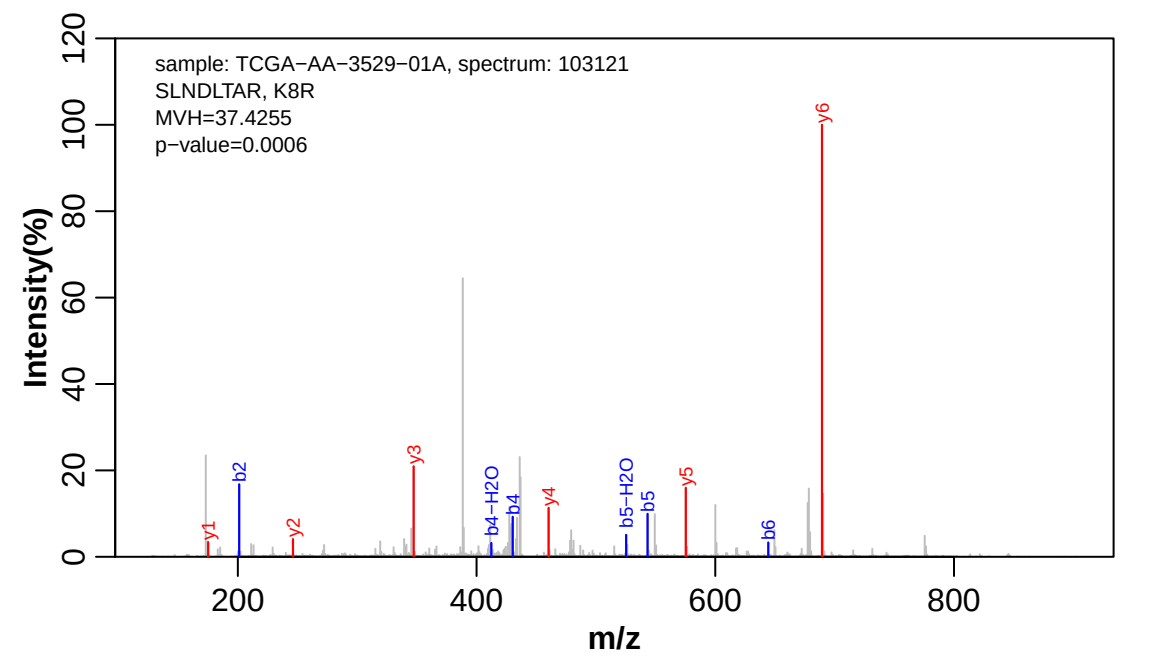

sample: TCGA−AA−3529−01A, spectrum: 31270
SALSGHLETLLLGLLK, V10L
MVH=81.9512
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
y4
y5
b11++
b12++
y12++
b10

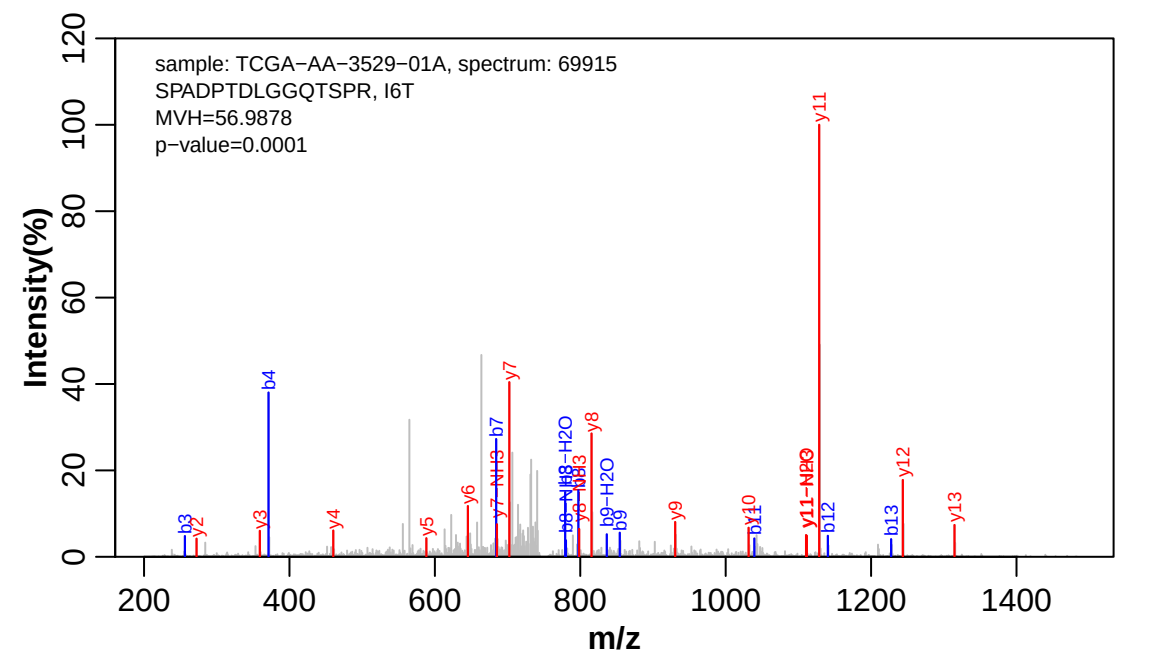

sample: TCGA−AA−3529−01A, spectrum: 160783
SAVGELSEDSSNVVHLLK, Q15H
MVH=59.1530
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5−H2O
b5
y4
y4−H2O
y5
b7−H2O
b7
y6
y9
y10
y10−NH3
b11−NH3
y11
y12
y13
b15
b15−H2O
y15
b16
b17
b17−NH3

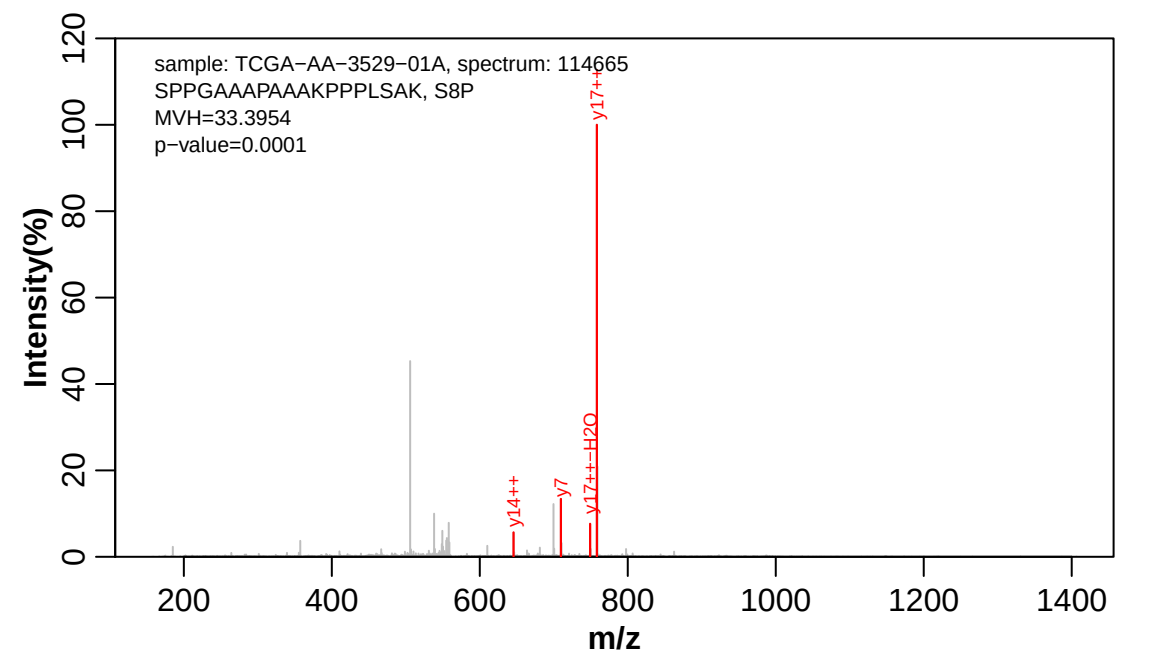

sample: TCGA−AA−3529−01A, spectrum: 63972
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=46.5426
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y10
y12
y13
y15
b8
b9
b11
b14
b18

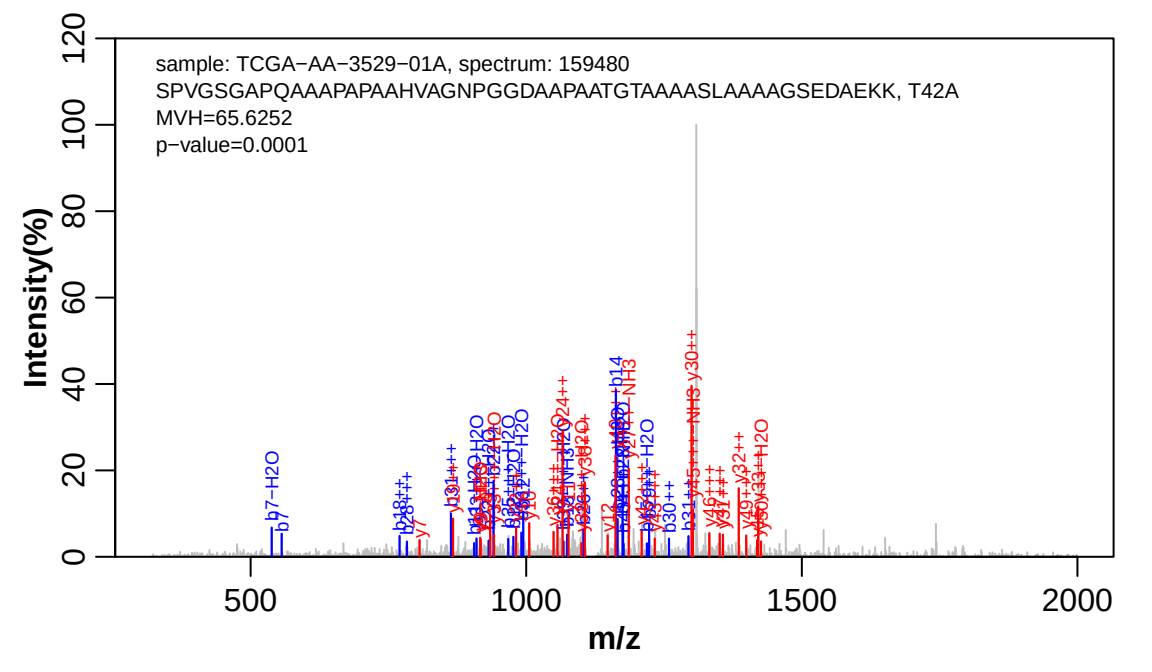

sample: TCGA−AA−3529−01A, spectrum: 149285
SEALPTDLPTPSAPDLTEPK, A10T
MVH=50.6658
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y5
b7−H2O
b7
y8
y10
b13
y13
y16
b18

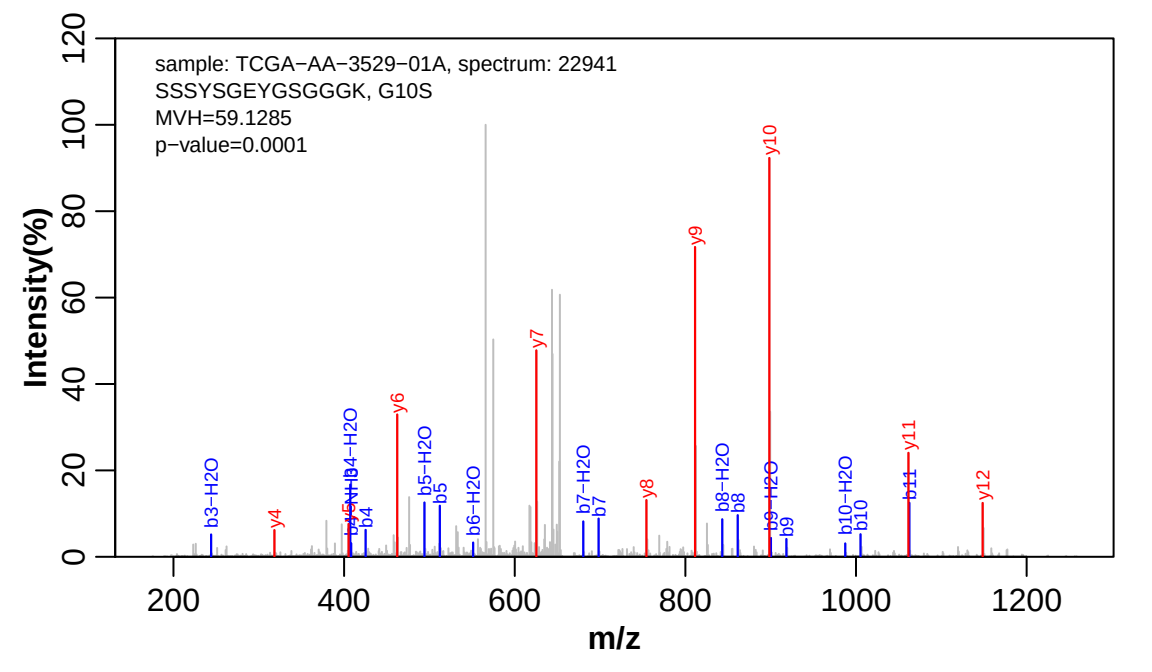

sample: TCGA−AA−3529−01A, spectrum: 19499
SGGTLVLVGLGSEMTTVPLLHAALRLN4T
MVH=33.5375
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y14++
y16++
y21++
b5−H2O
b6−H2O
b7−H2O
y6−H2O
b8−H2O
b8−NH3
y13++−H2O
b11−H2O
b12
b22++

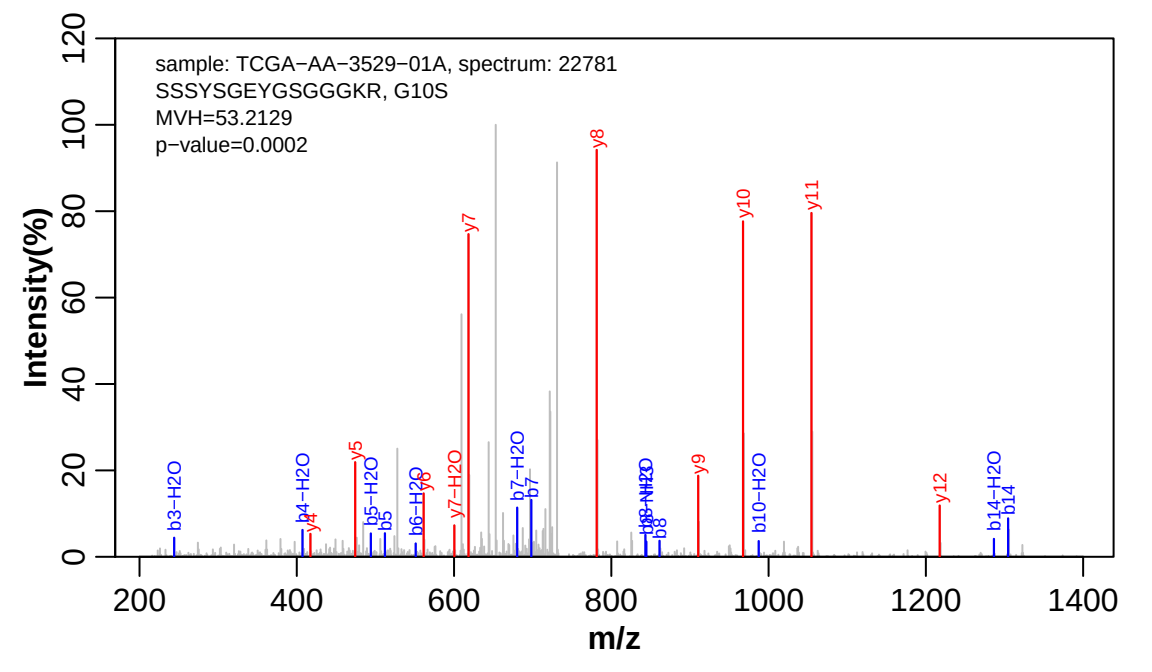

sample: TCGA−AA−3529−01A, spectrum: 103121
SLNDLTAR, K8R
MVH=37.4255
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1
b2
y2
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6
y6

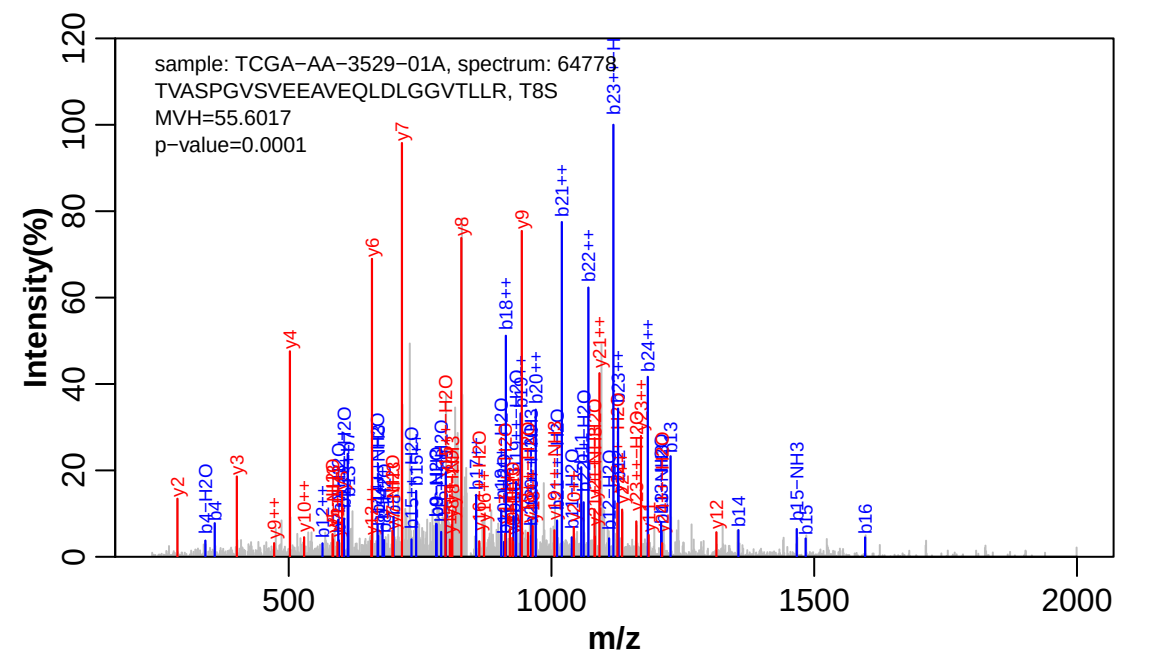

sample: TCGA−AA−3529−01A, spectrum: 69915
SPADPTDLGGQTSPR, I6T
MVH=56.9878
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
y7−NH3
b7
y7
b8−H2O
b8−NH3
y8
b9−H2O
b9
y9
y10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

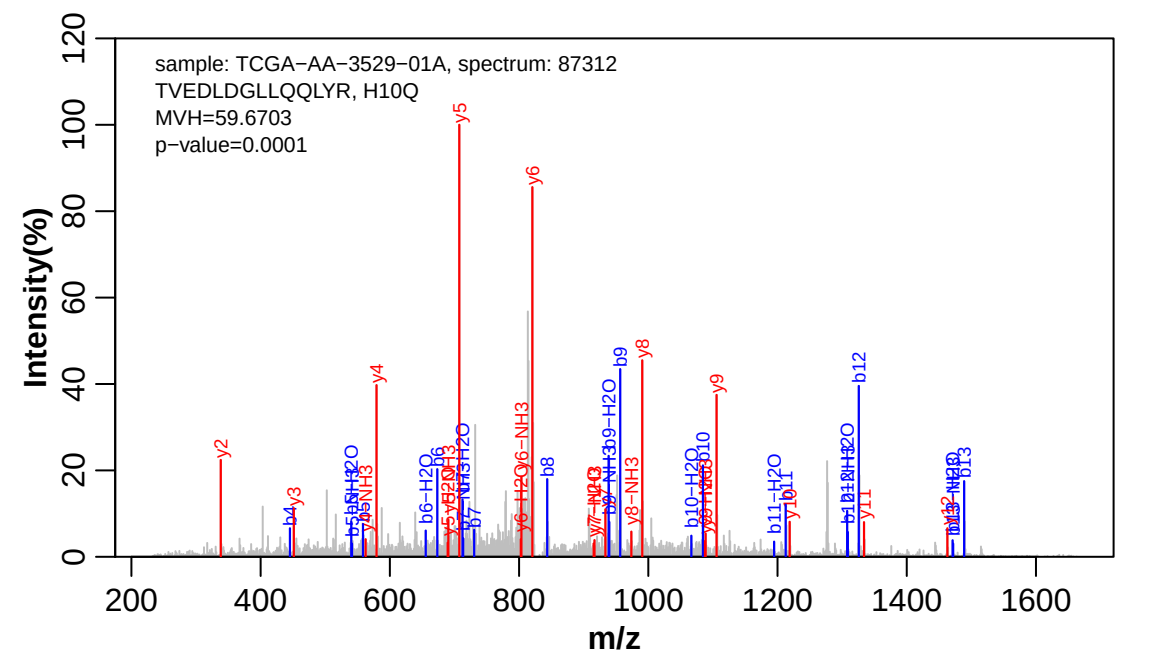

sample: TCGA−AA−3529−01A, spectrum: 114665
SPPGAAAPAAAKPPPLSAK, S8P
MVH=33.3954
p−value=0.0001
y17++
y14++
y7
y17++−H2O
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

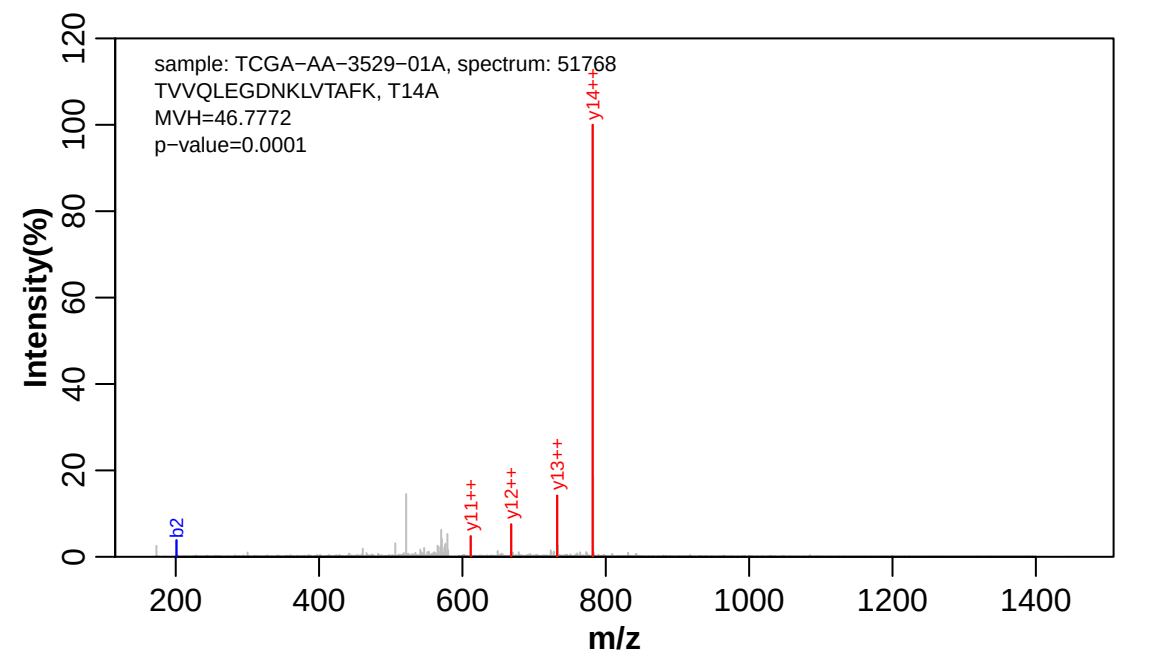

sample: TCGA−AA−3529−01A, spectrum: 159480
SPVGSGAPQAAAPAPAAHVAGNPGGDAAPAATGTAAAASLAAAAGSEDAEKK, T42A
MVH=65.6252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

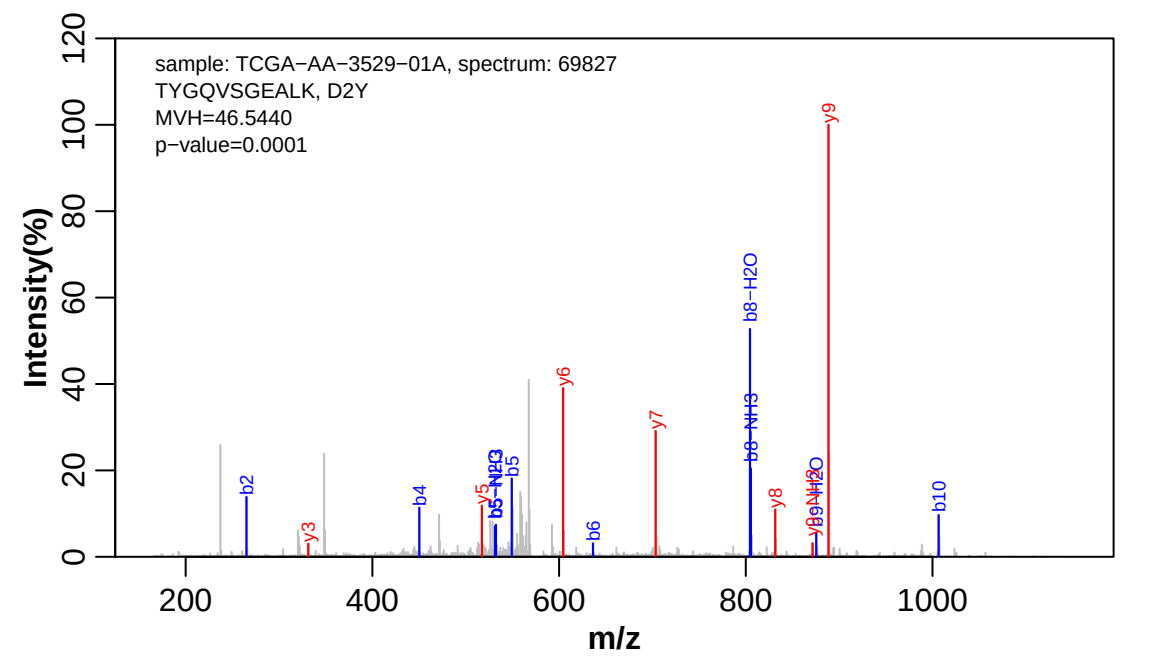

sample: TCGA−AA−3529−01A, spectrum: 22941
SSSYSGEYGSGGGK, G10S
MVH=59.1285
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4−H2O
b4
y6
b5−H2O
b5
b6−H2O
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
b9−H2O
b9
b10−H2O
b10
y11
b11
y12

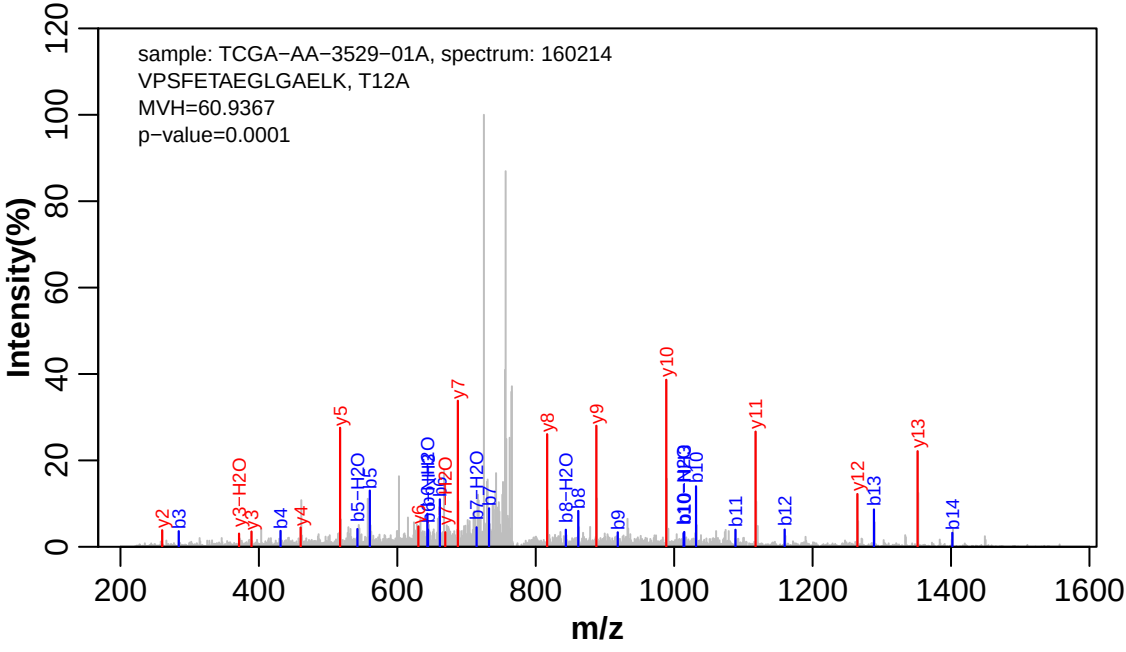

sample: TCGA−AA−3529−01A, spectrum: 22781
SSSYSGEYGSGGGKR, G10S
MVH=53.2129
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y4
b4−H2O
y5
b5−H2O
b5
b6−H2O
y6
y7−H2O
y7
b7−H2O
b7
y8
b8−NH3
b8−H2O
b8
y9
y10
b10−H2O
y11
y12
b14−H2O
b14

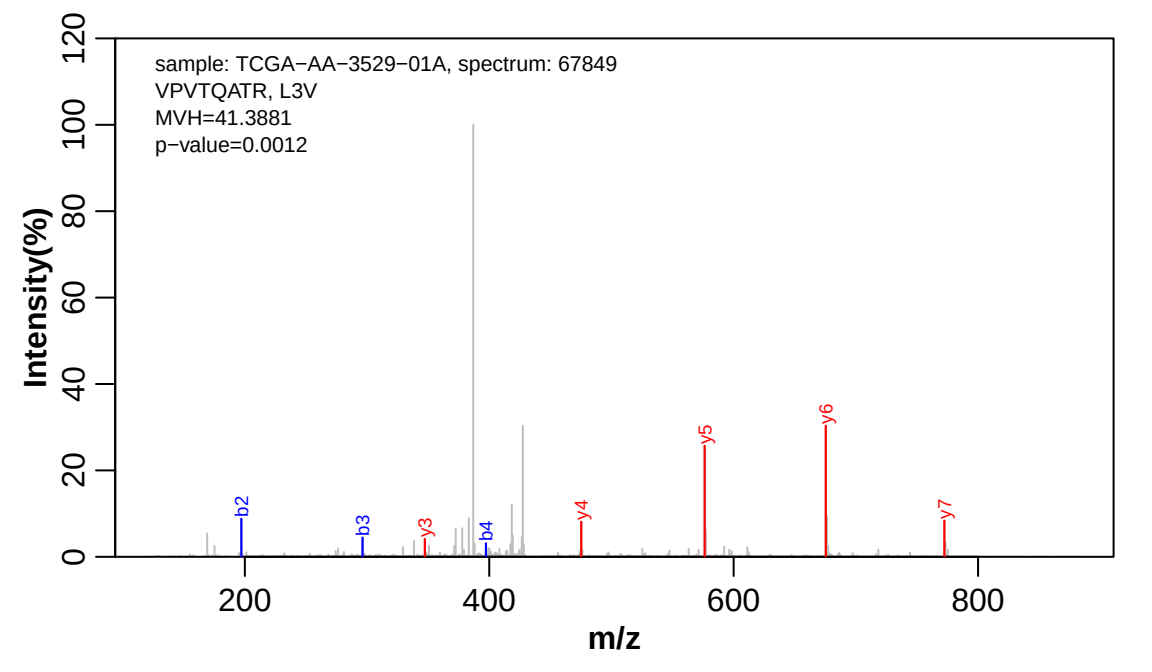

sample: TCGA−AA−3529−01A, spectrum: 64778
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=55.6017
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4−H2O
b4
y3
y9++
y10++
y4
y6
y7
y8
y9
b17−H2O
b18++
b20++
b21++
b22++
y21++
b24++
b23++
b15−NH3
b16
y12
b14
b13

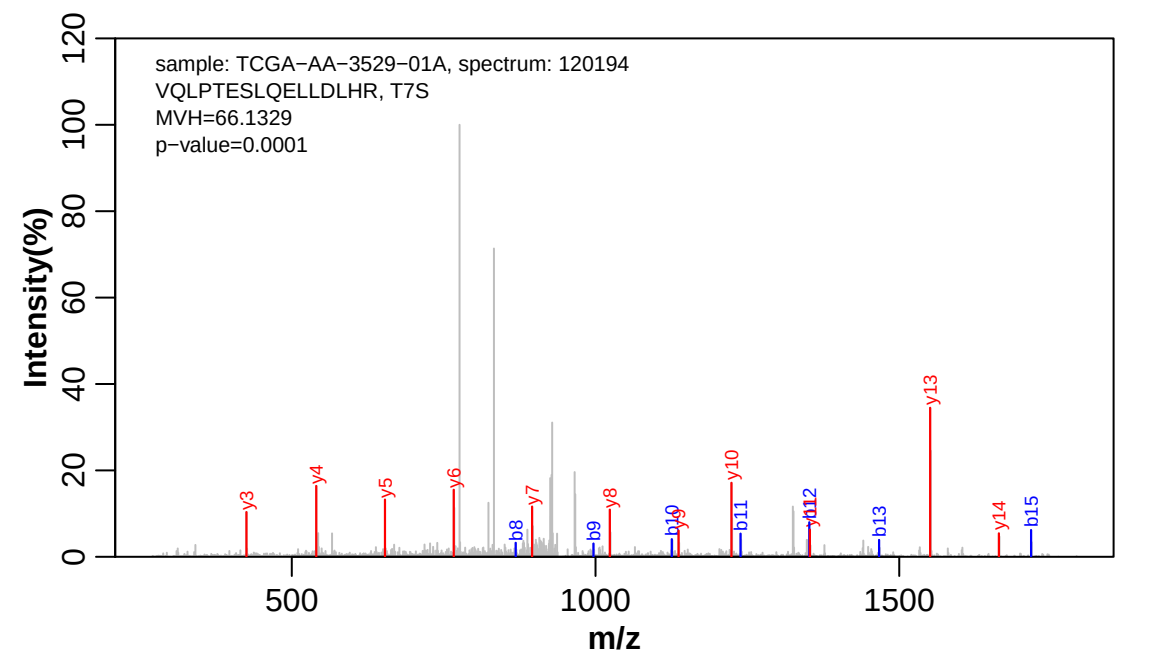

sample: TCGA−AA−3529−01A, spectrum: 87312
TVEDLDGLLQQLYR, H10Q
MVH=59.6703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
y9
b9
b12
b8
b4
y11
b13

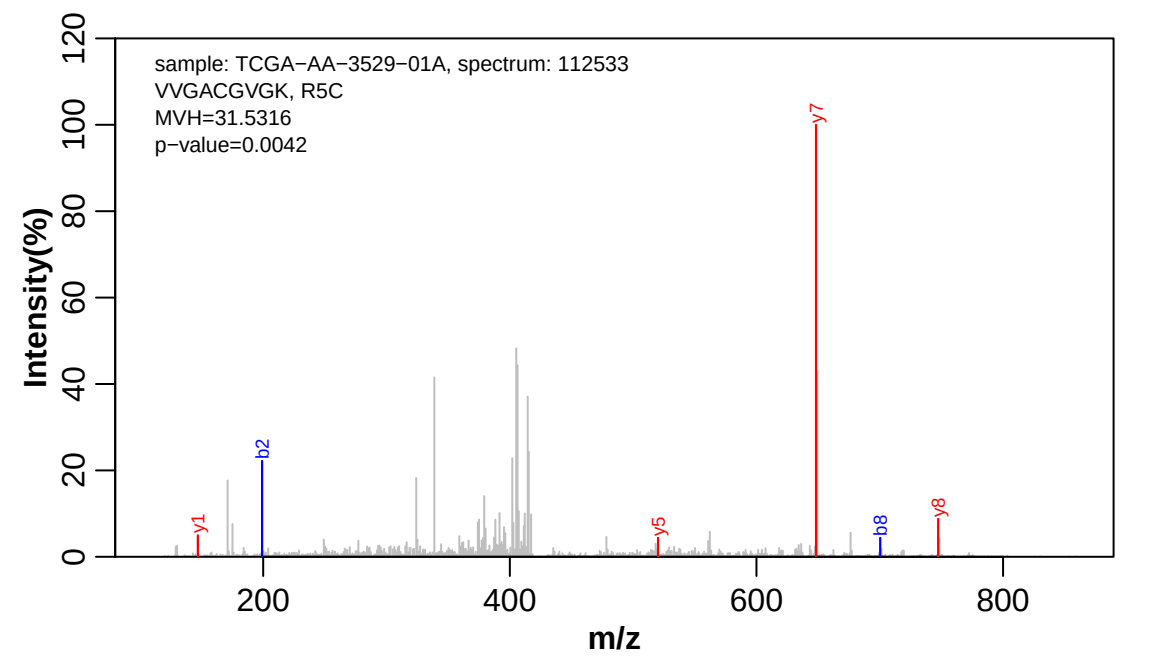

sample: TCGA−AA−3529−01A, spectrum: 51768
TVVQLEGDNKLVTAFK, T14A
MVH=46.7772
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

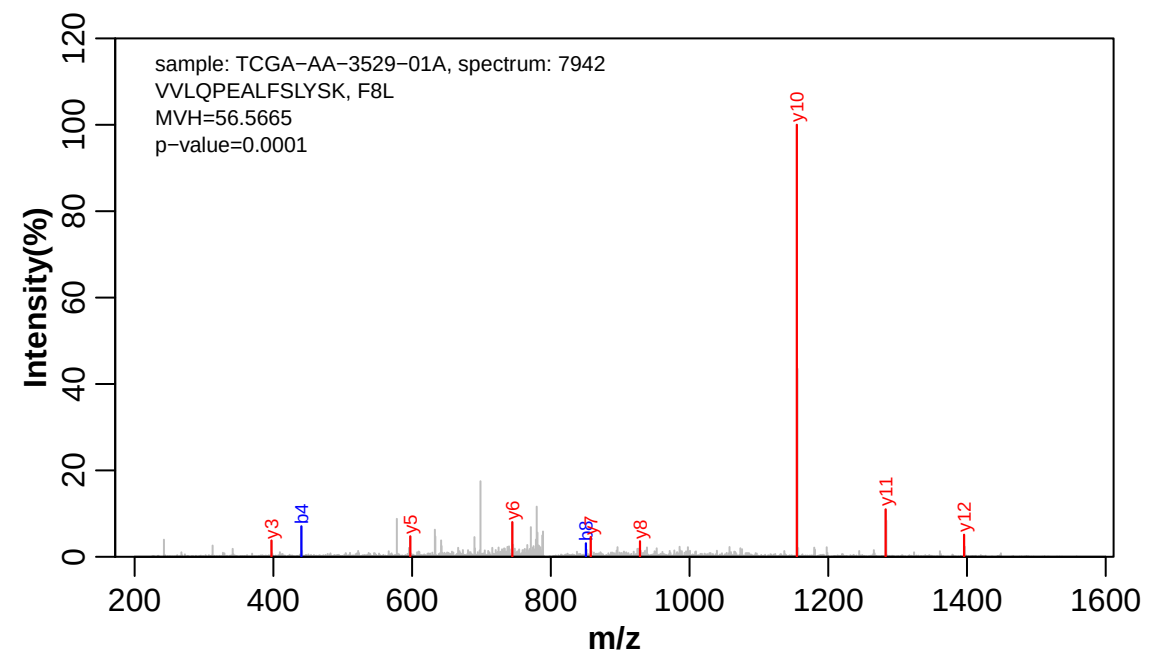

sample: TCGA−AA−3529−01A, spectrum: 69827
TYGQVSGEALK, D2Y
MVH=46.5440
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3
b4
y5
b5
b6
y6
y7
b8−H2O
b8−NH3
y8
y9
b10

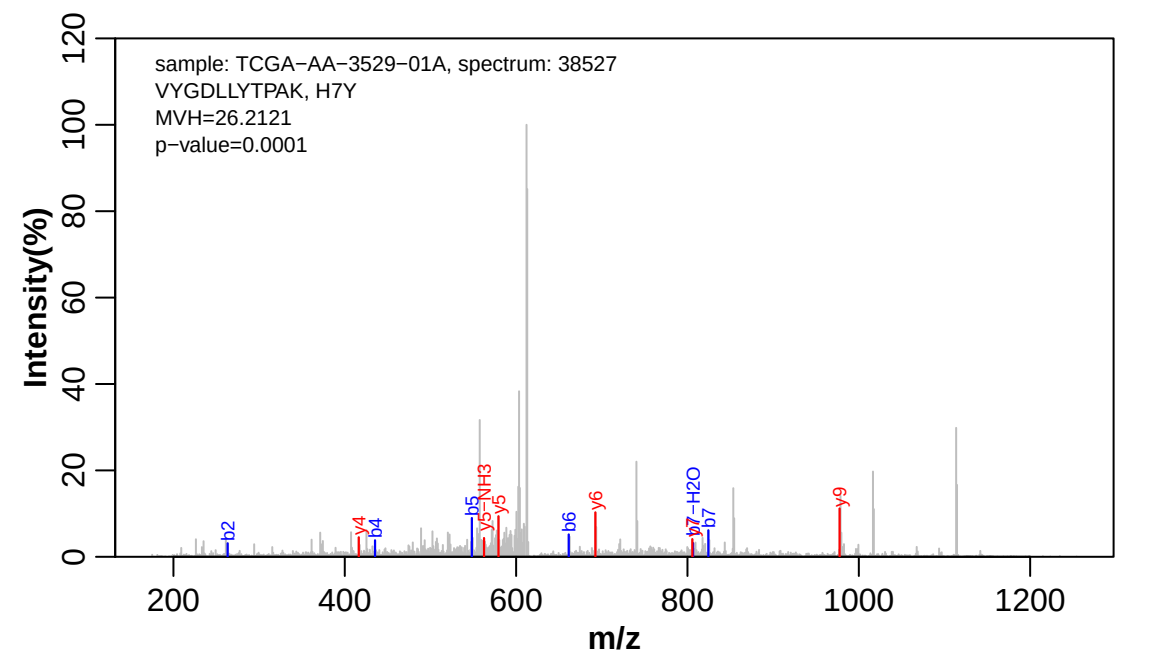

sample: TCGA−AA−3529−01A, spectrum: 160214
VPSFETAEGLGAELK, T12A
MVH=60.9367
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3−H2O
y3
b4
y4
b5−H2O
y5
b5
y7
y7−H2O
b7−H2O
b7
y8
b8−H2O
b8
y9
b9
y10
b10−NH3
b10
b11
y11
b12
y12
b13
y13
b14

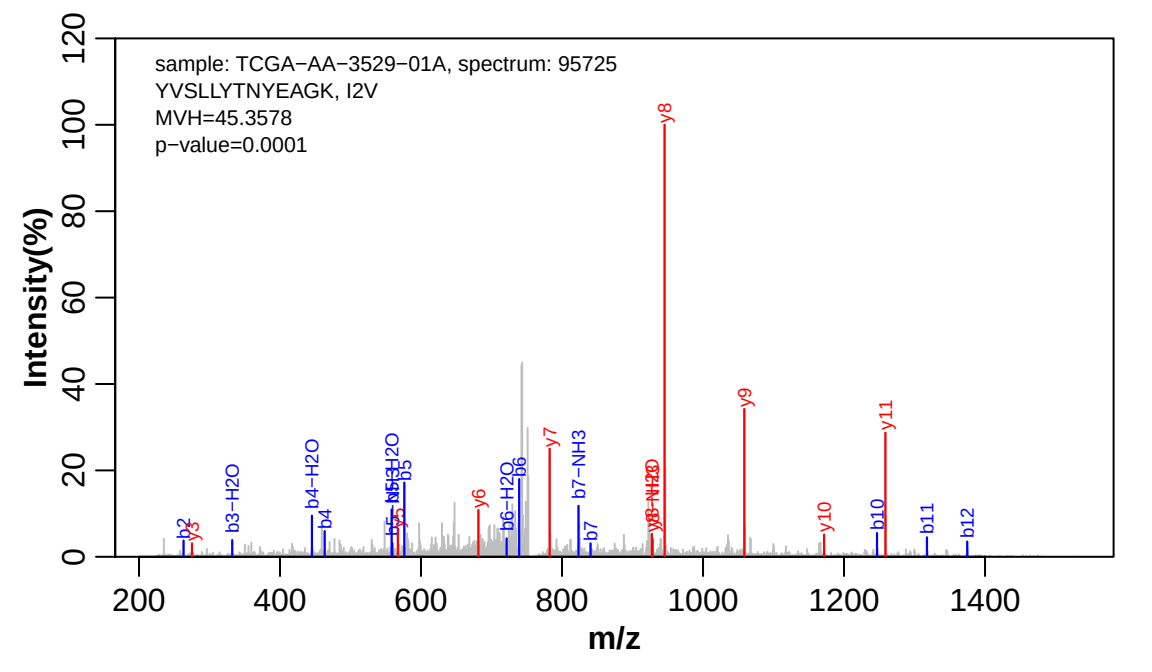

sample: TCGA−AA−3529−01A, spectrum: 67849
VPVTQATR, L3V
MVH=41.3881
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4
y4
y5
y6
y7

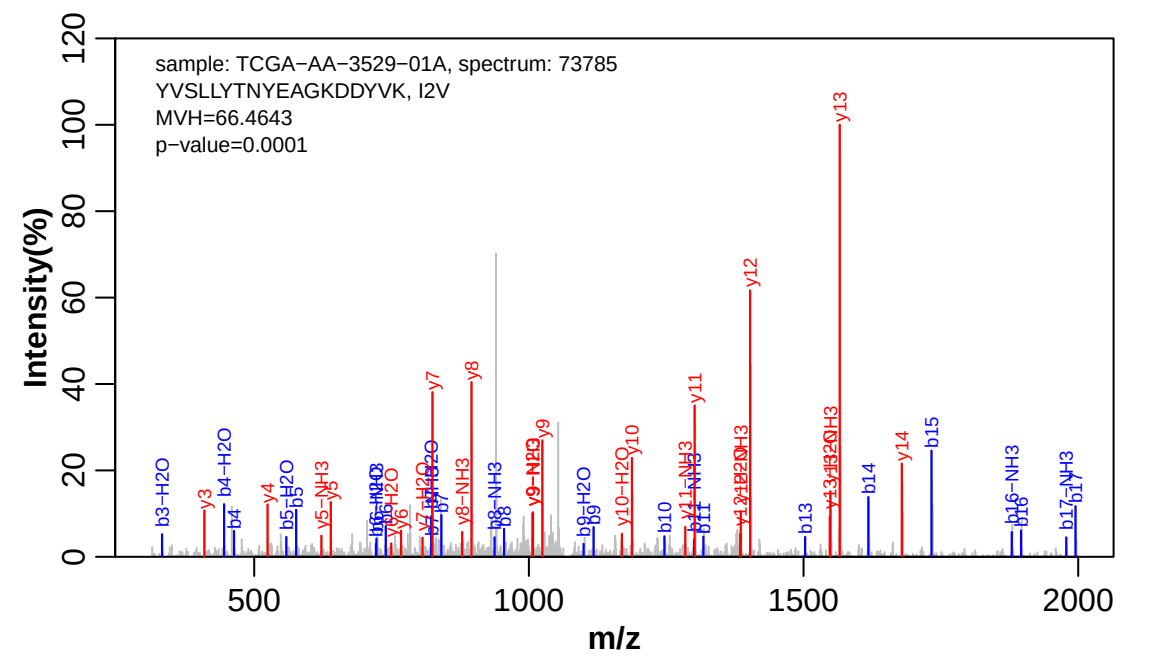

sample: TCGA−AA−3529−01A, spectrum: 120194
VQLPTESLQELLDLHR, T7S
MVH=66.1329
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y7
y8
b8
b9
b10
y9
y10
b11
y11
y12
b13
y13
y14
b15

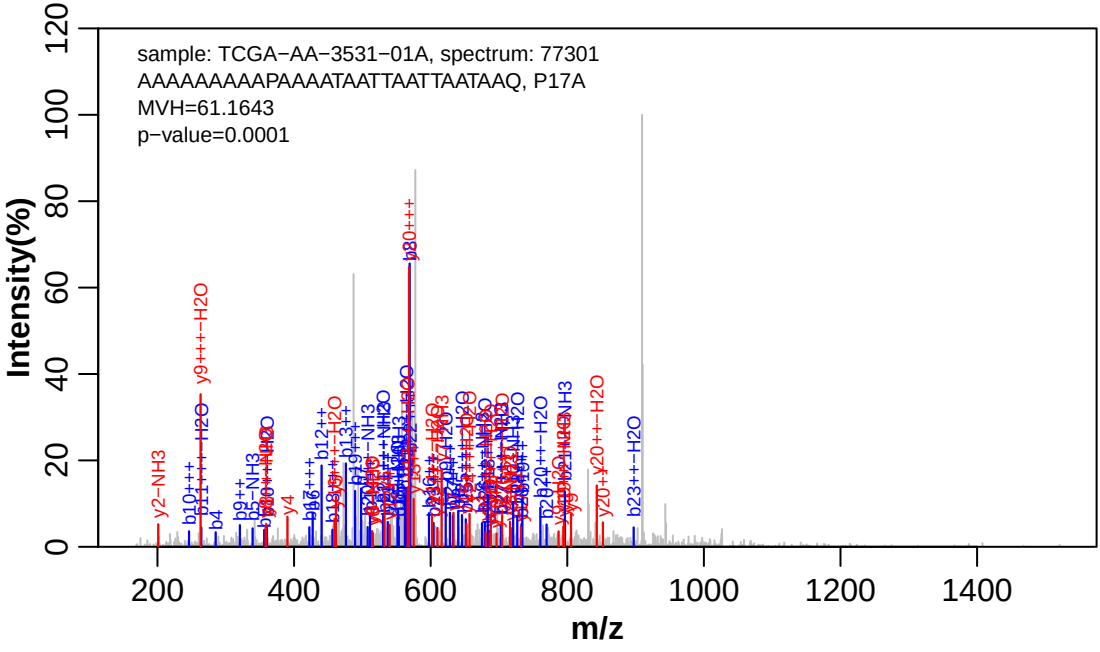

sample: TCGA−AA−3529−01A, spectrum: 112533
VVGACGVGK, R5C
MVH=31.5316
p−value=0.0042
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y5
y7
b8
y8

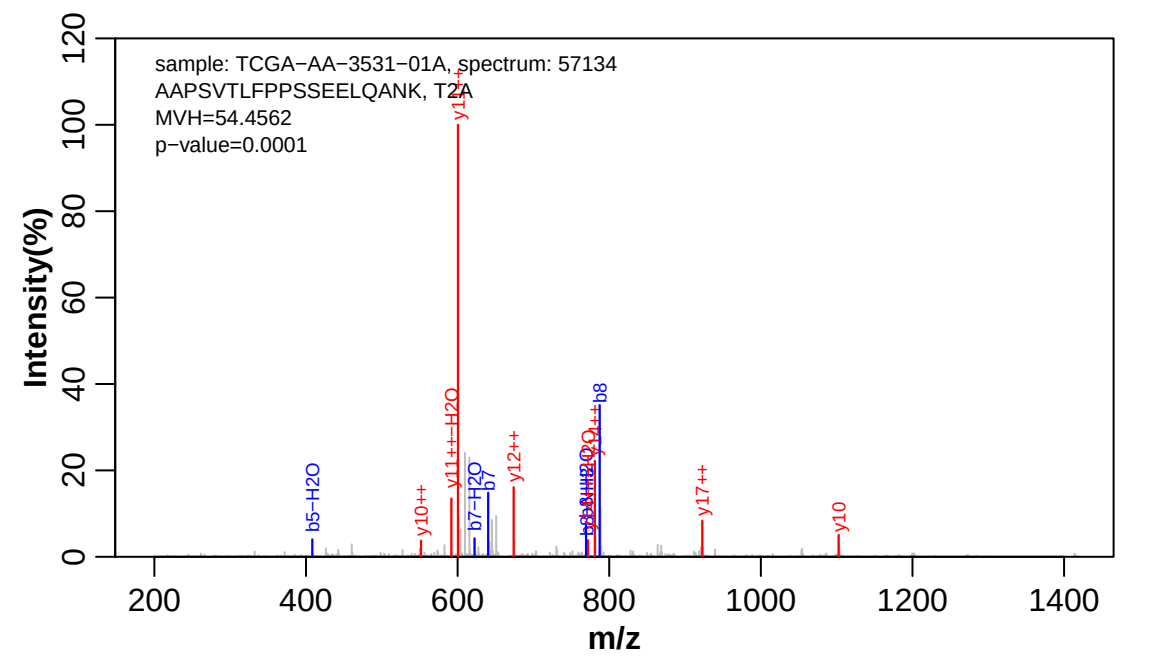

sample: TCGA−AA−3529−01A, spectrum: 7942
VVLQPEALFSLYSK, F8L
MVH=56.5665
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
y3
b4
y5
y6
b8
y7
y8
y10
y11
y12

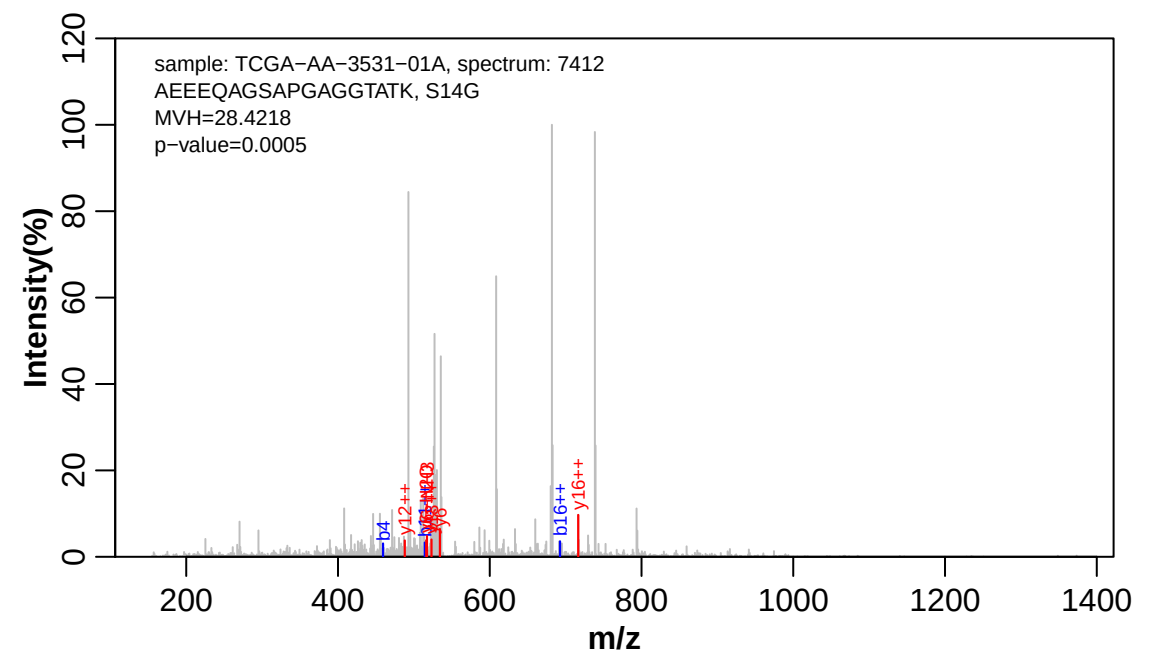

sample: TCGA−AA−3529−01A, spectrum: 38527
VYGDLLYTPAK, H7Y
MVH=26.2121
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y4
b4
b5
y5−NH3
y5
b6
y6
y7−H2O
b7
y9

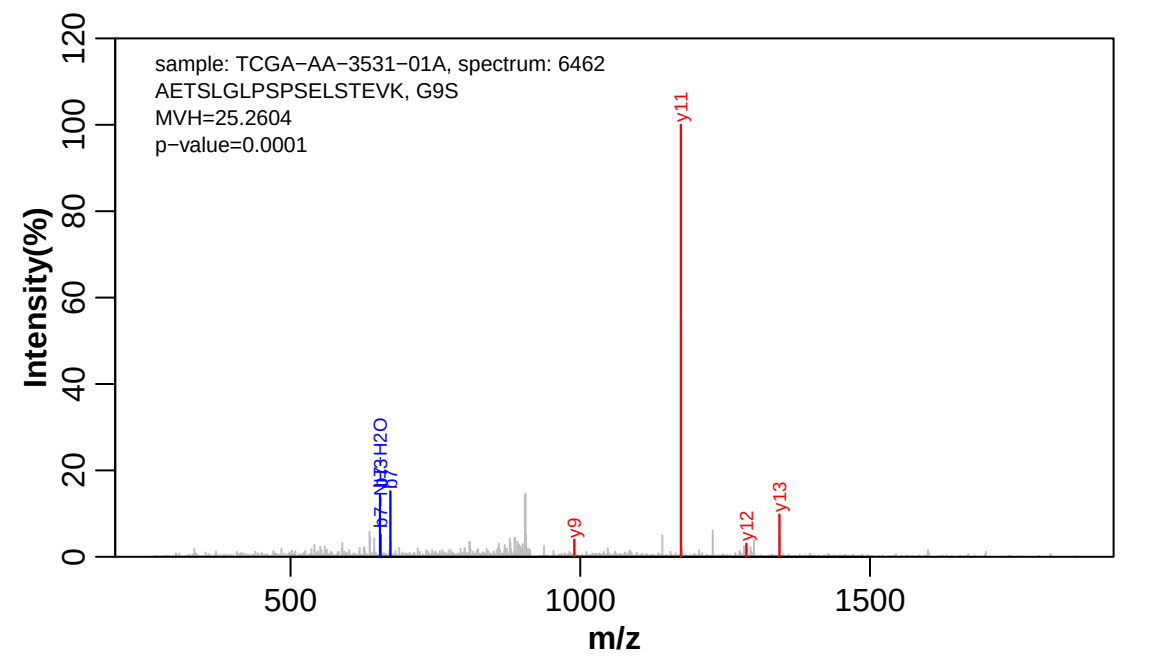

sample: TCGA−AA−3529−01A, spectrum: 95725
YVSLLYTNYEAGK, I2V
MVH=45.3578
p−value=0.0001
Intensity(%)
m/z
y8
y9
y11
y7
b7−NH3
y6
b6−H2O
b6
b5
b4−H2O
b4
b3−H2O
y3
b2
y10
b10
b11
b12
b7

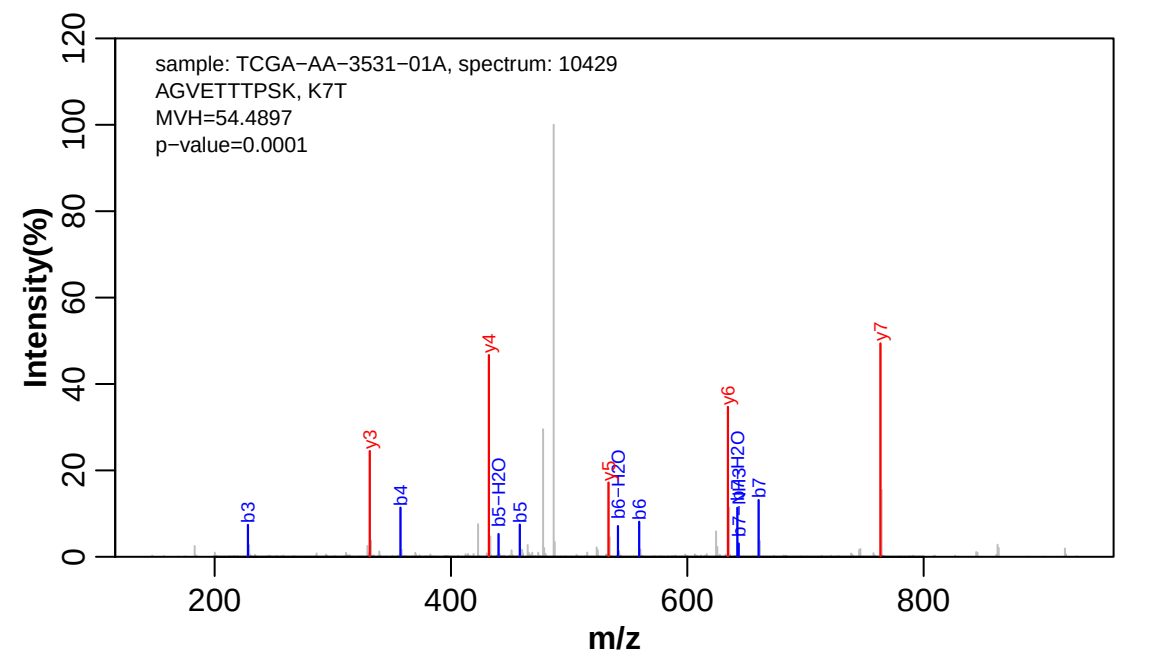

sample: TCGA−AA−3529−01A, spectrum: 73785
YVSLLYTNYEAGKDDYVK, I2V
MVH=66.4643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
y7
y8
y8−NH3
b8−NH3
b8
y9
b9−H2O
b9
y10−H2O
y10
b10
y11
y11−NH3
b11
y12
b13
y13
b14
y14
b15
b16−NH3
b16
b17−NH3
b17

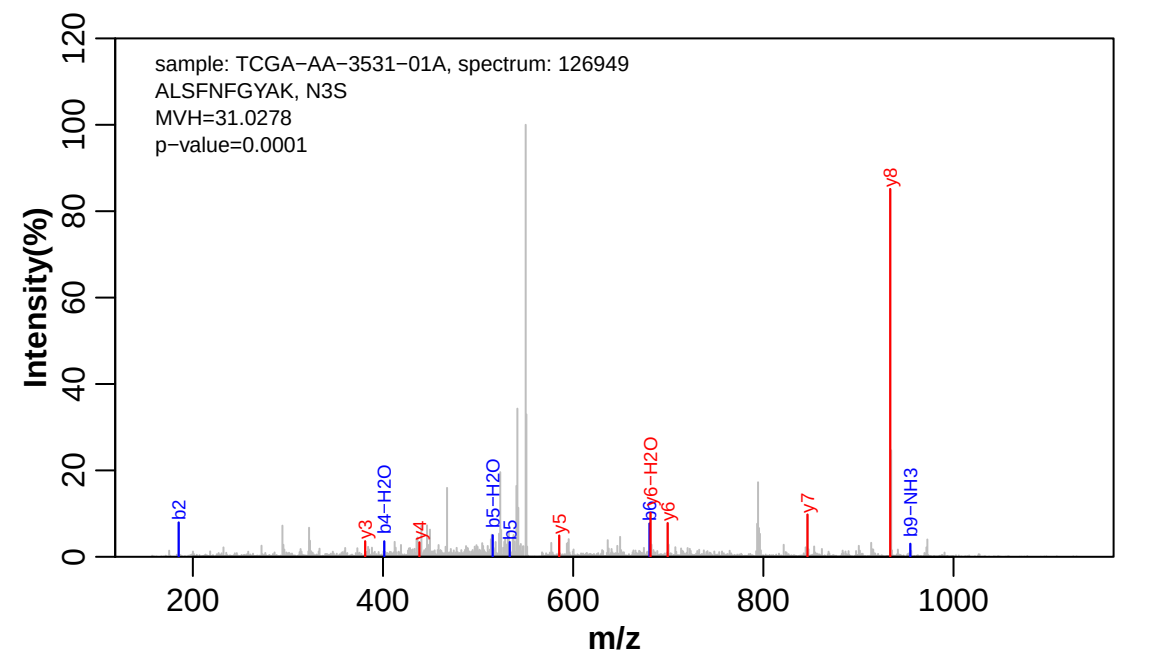

sample: TCGA−AA−3531−01A, spectrum: 77301
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=61.1643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2−NH3
b10+++
b11+++−H2O
y9+++−H2O
b4
b5−NH3
b9++
y4
b6+++
b12+++
b13+++−H2O
b19+++
b16+++−NH3
b20+++
y20+++
y20+++−H2O
b23+++−H2O

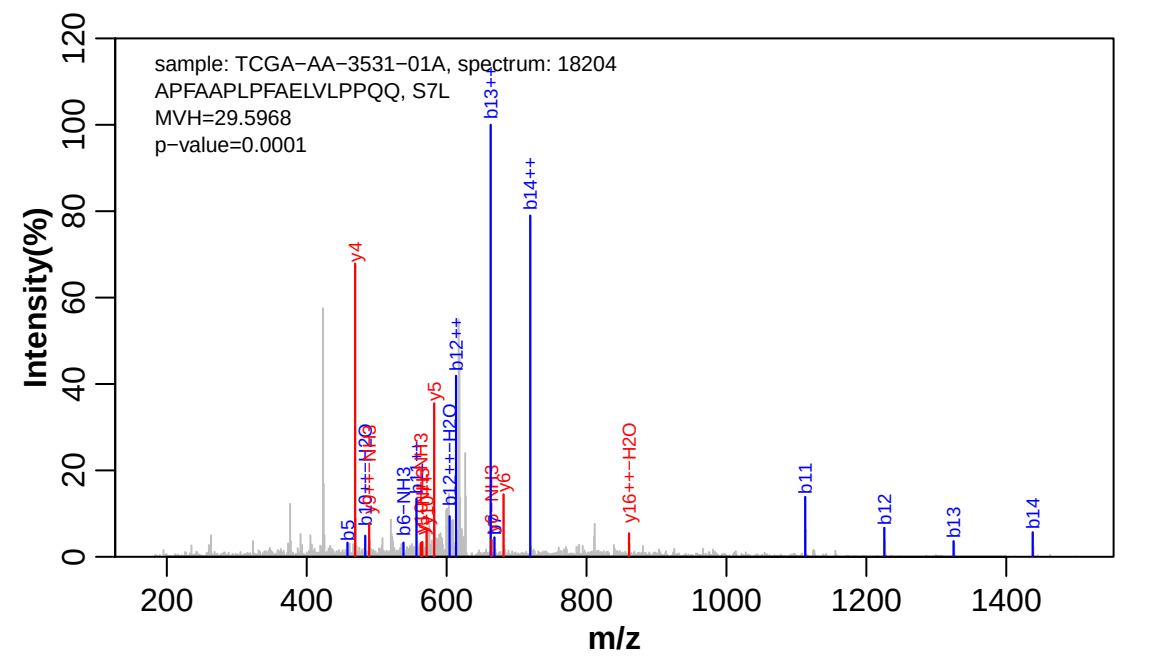

sample: TCGA−AA−3531−01A, spectrum: 57134
AAPSVTLFPPSSEELQANK, T2A
MVH=54.4562
p−value=0.0001
Intensity(%)
m/z
y11++
y11++−H2O
b5−H2O
y10++
b7−H2O
b7
y12++
b8
y17++
y10

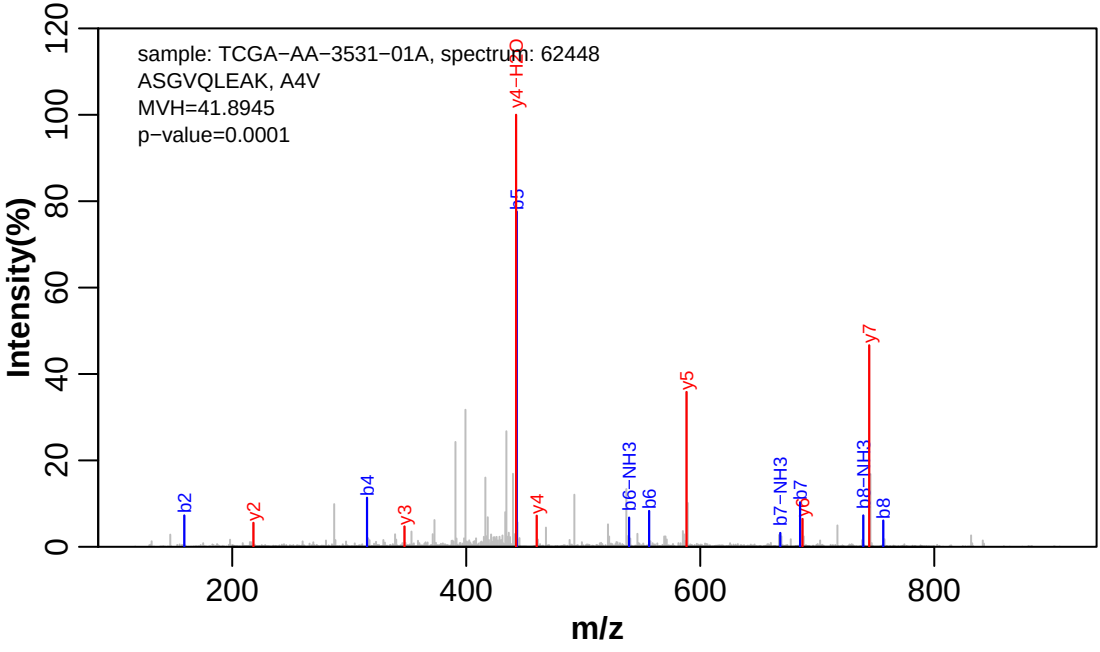

sample: TCGA−AA−3531−01A, spectrum: 7412
AEEEQAGSAPGAGGTATK, S14G
MVH=28.4218
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b4
y12++
b16++
y16++

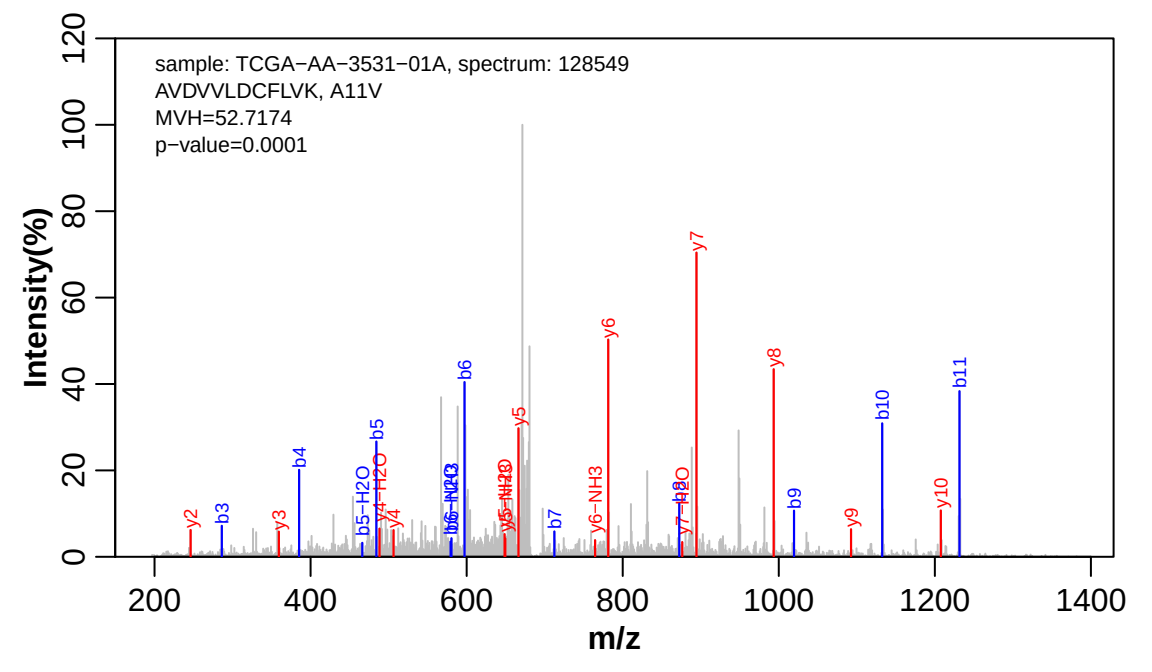

sample: TCGA−AA−3531−01A, spectrum: 6462
AETSLGLPSPSELSTEVK, G9S
MVH=25.2604
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y9
y12
y13
b7−H2O
b7

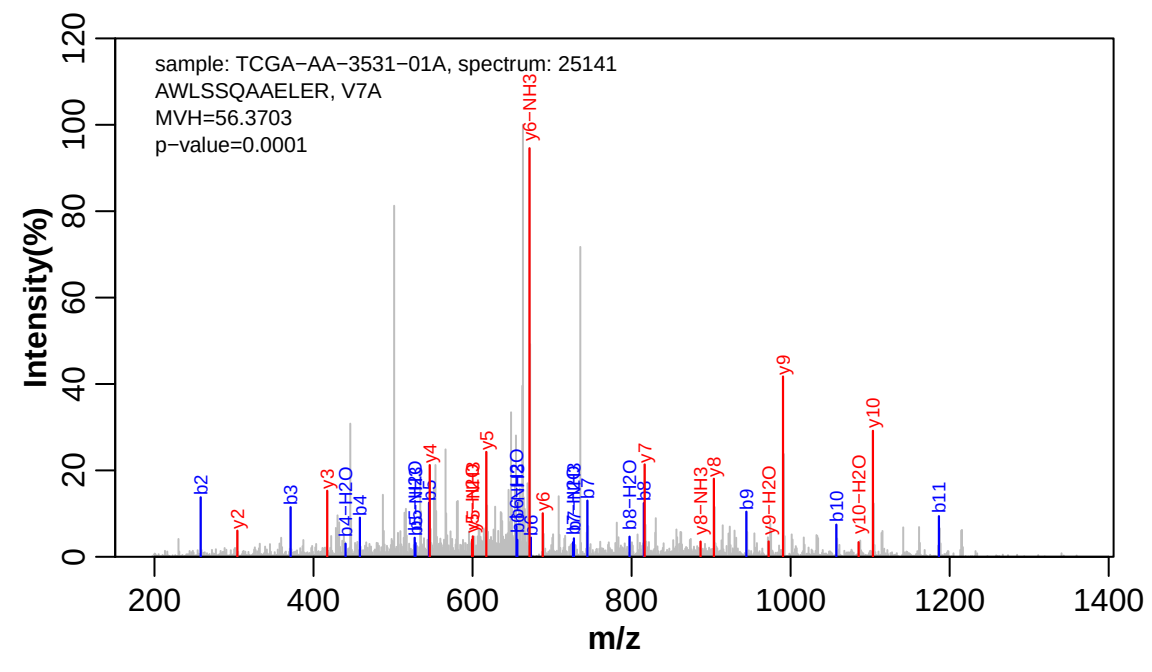

sample: TCGA−AA−3531−01A, spectrum: 10429
AGVETTTPSK, K7T
MVH=54.4897
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7
y7

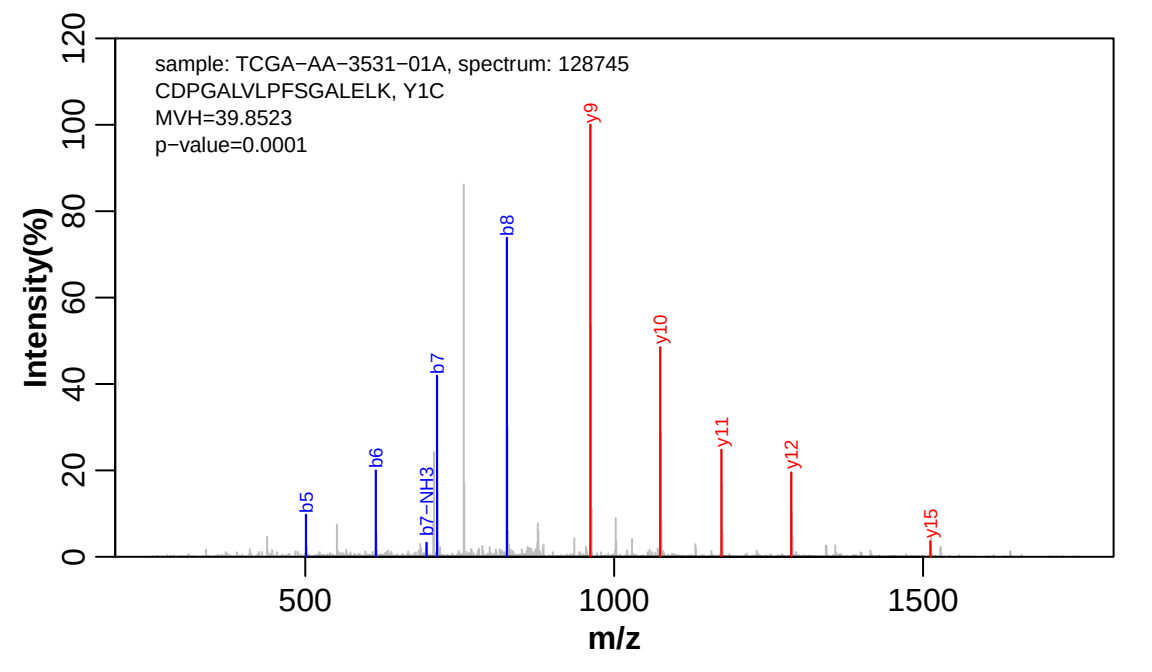

sample: TCGA−AA−3531−01A, spectrum: 126949
ALSFNFGYAK, N3S
MVH=31.0278
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3
b4−H2O
y4
b5−H2O
b5
y5
b6
b6−H2O
y6
y7
y8
b9−NH3

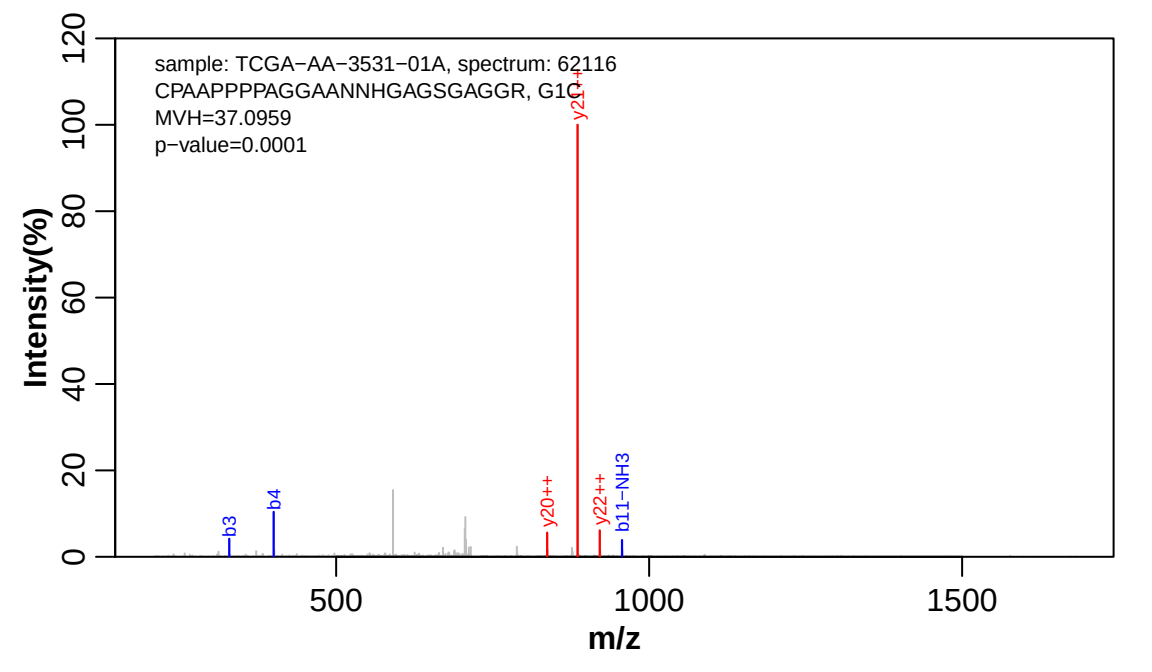

sample: TCGA−AA−3531−01A, spectrum: 18204
APFAAPLPFAELVLPPQQ, S7L
MVH=29.5968
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b13++
b14++
y4
b12++
y5
b12++−H2O
b6−NH3
b5
y16++−H2O
b11
b12
b13
b14

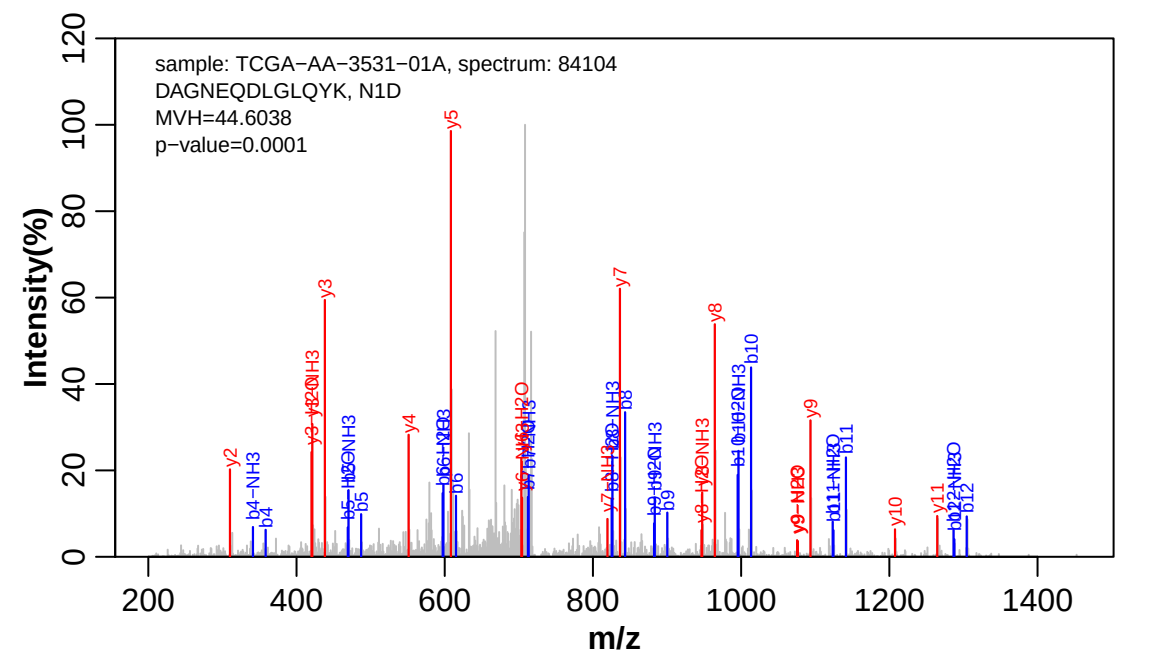

sample: TCGA−AA−3531−01A, spectrum: 62448
ASGVQLEAK, A4V
MVH=41.8945
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b2
y2
b4
y3
y4−H2O
b5
y4
b6−NH3
b6
y5
b7−NH3
y6
b7
b8−NH3
y7
b8

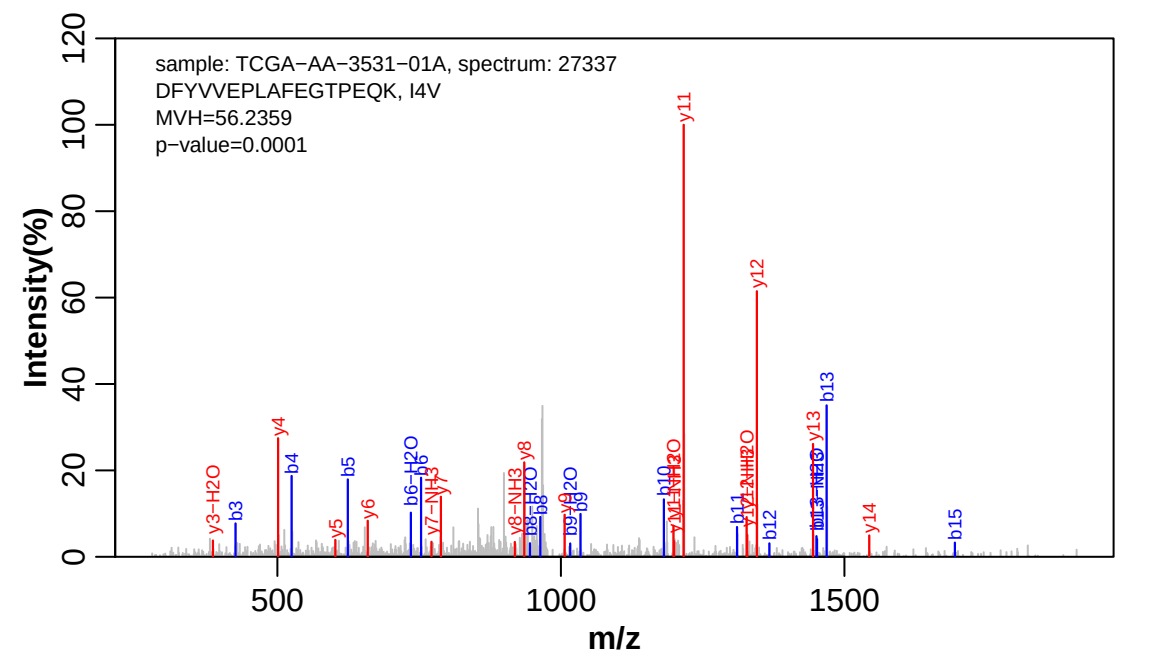

sample: TCGA−AA−3531−01A, spectrum: 128549
AVDVVLDCFLVK, A11V
MVH=52.7174
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b5−H2O
b5
y4−H2O
y4
b6
y5
y6−NH3
y6
b7
y7
y8
b9
b10
y9
y10
b11

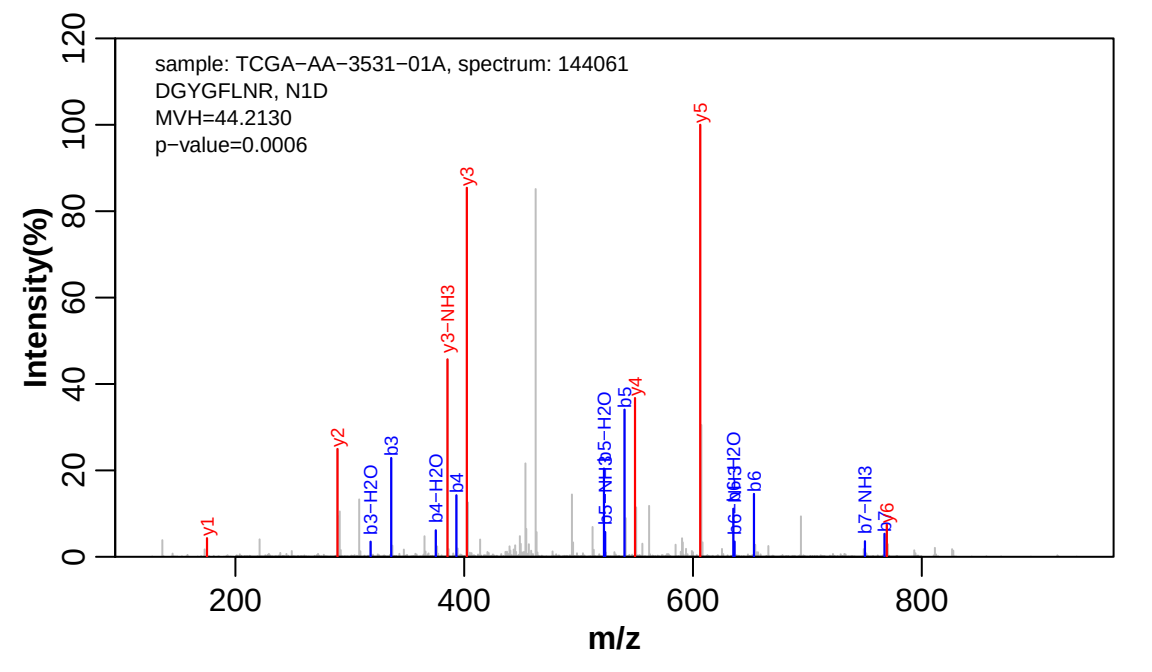

sample: TCGA−AA−3531−01A, spectrum: 25141
AWLSSQAAELER, V7A
MVH=56.3703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y4
y5−NH3
y5
b6−NH3
b6−H2O
y6−NH3
y6
b7−NH3
b7
b8−H2O
y7
b8
y8−NH3
y8
b9
y9−H2O
y9
b10
y10−H2O
y10
b11

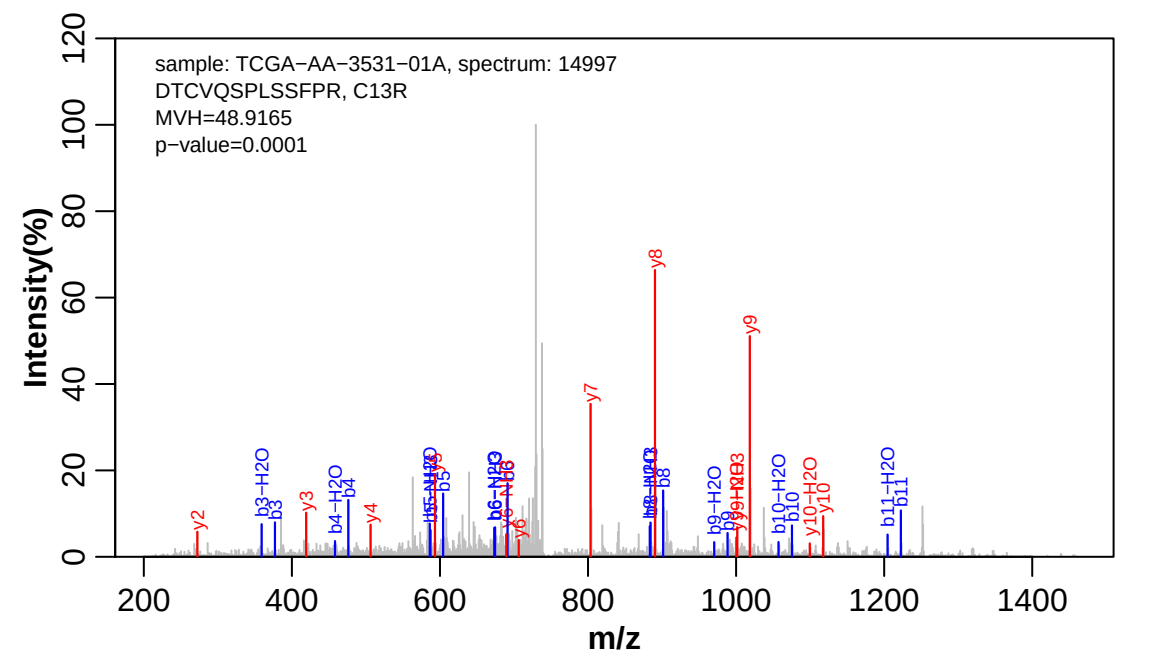

sample: TCGA−AA−3531−01A, spectrum: 128745
CDPGALVLPFSGALELK, Y1C
MVH=39.8523
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7−NH3
b7
b8
y9
y10
y11
y12
y15

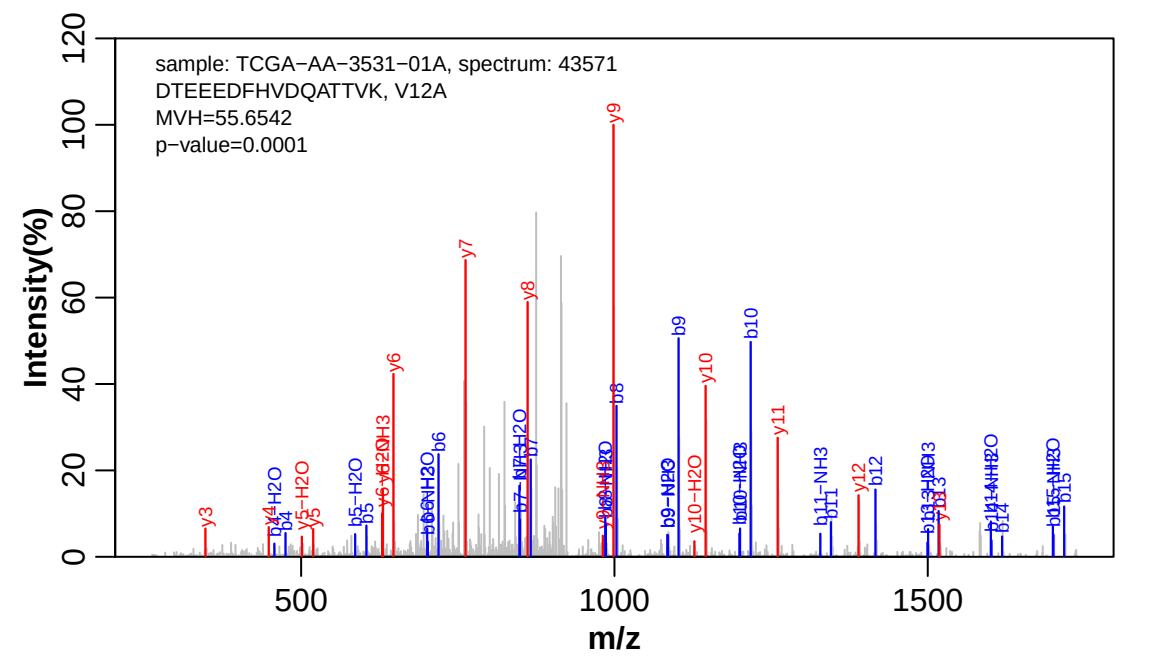

sample: TCGA−AA−3531−01A, spectrum: 62116
CPAAPPPPAGGAANNHGAGSGAGGR, G1C
MVH=37.0959
p−value=0.0001
y21++
b3
b4
y20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

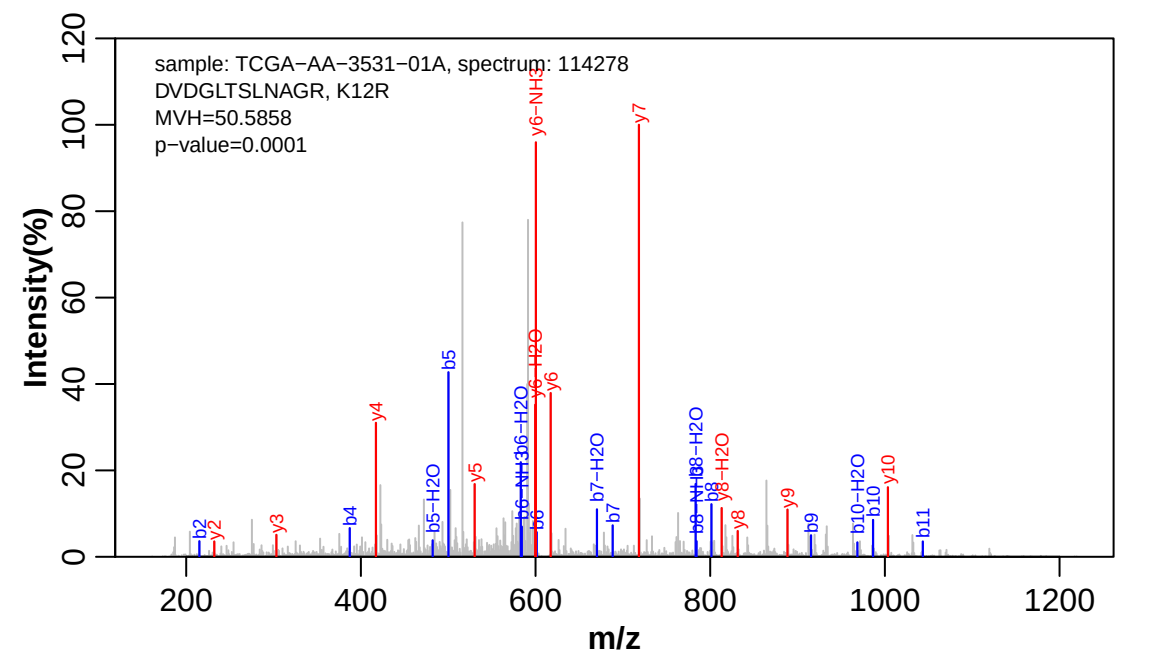

sample: TCGA−AA−3531−01A, spectrum: 84104
DAGNEQDLGLQYK, N1D
MVH=44.6038
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y3
y7
y8
b10
y4
y9
b11
y2
b4−NH3
b4
b5
b6
b8
y10
y11
b12

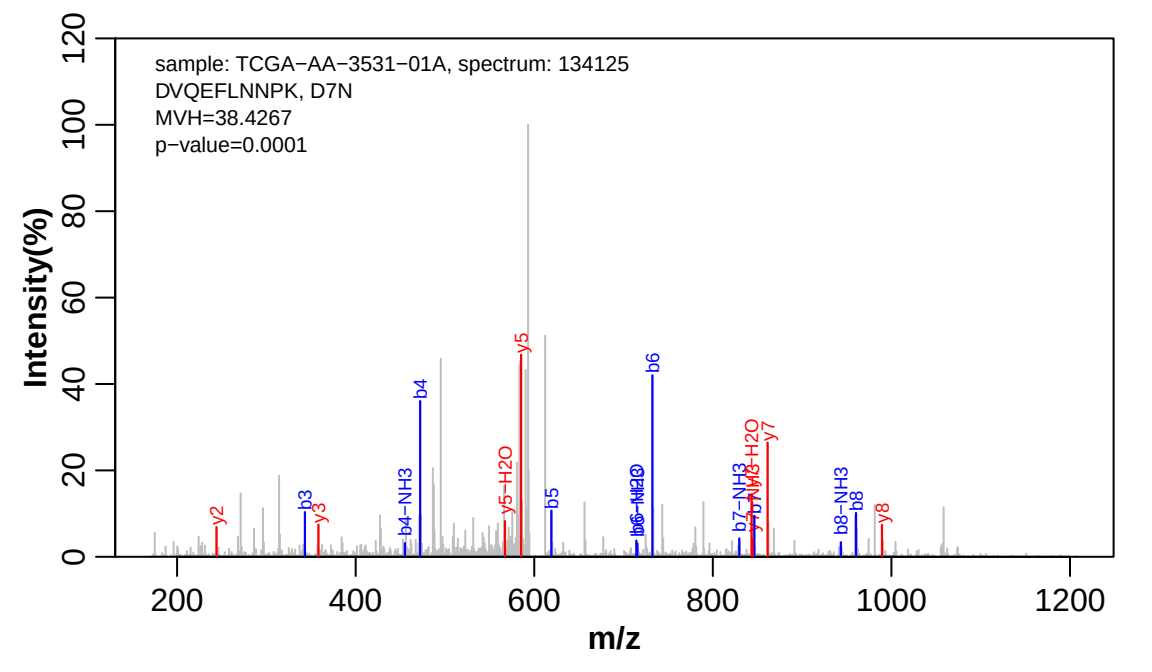

sample: TCGA−AA−3531−01A, spectrum: 27337
DFYVVEPLAFEGTPEQK, I4V
MVH=56.2359
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
y4
b4
b5
y6
y5
b3
y3−H2O
b6−H2O
b6
y7
y7−NH3
y8
y8−NH3
b8−H2O
b8
b9−H2O
b9
b10
y10−NH3−H2O
b11
y11−NH3−H2O
b12
y13
b13
y14
b15

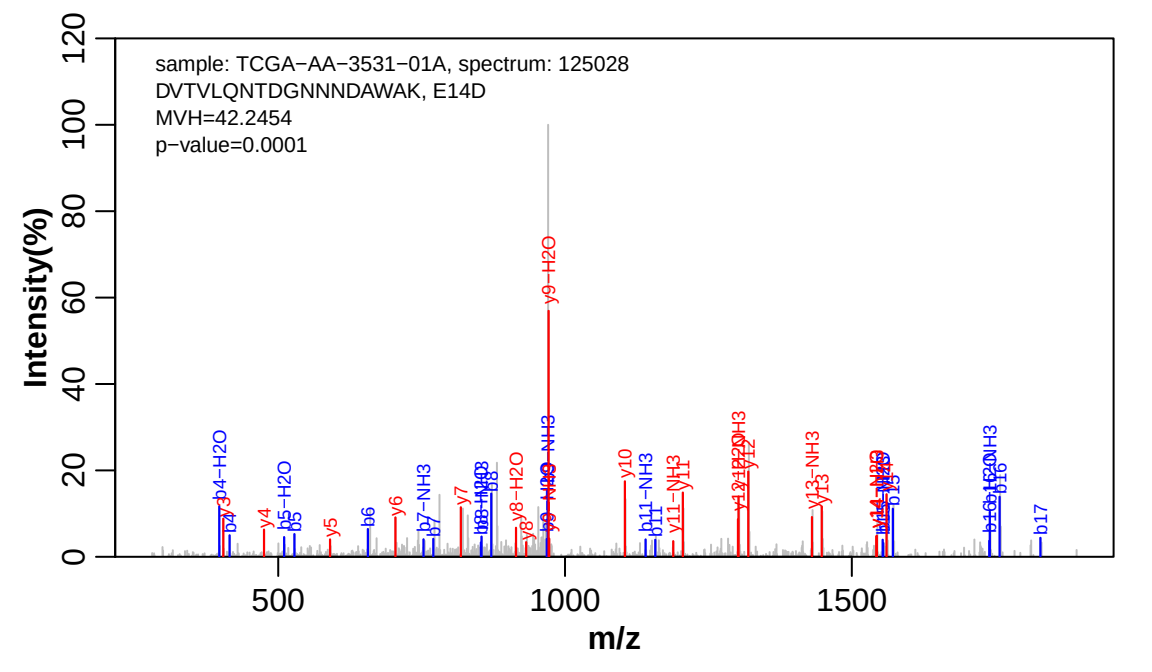

sample: TCGA−AA−3531−01A, spectrum: 144061
DGYGFLNR, N1D
MVH=44.2130
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−NH3
b6−H2O
b6
b7−NH3
y6

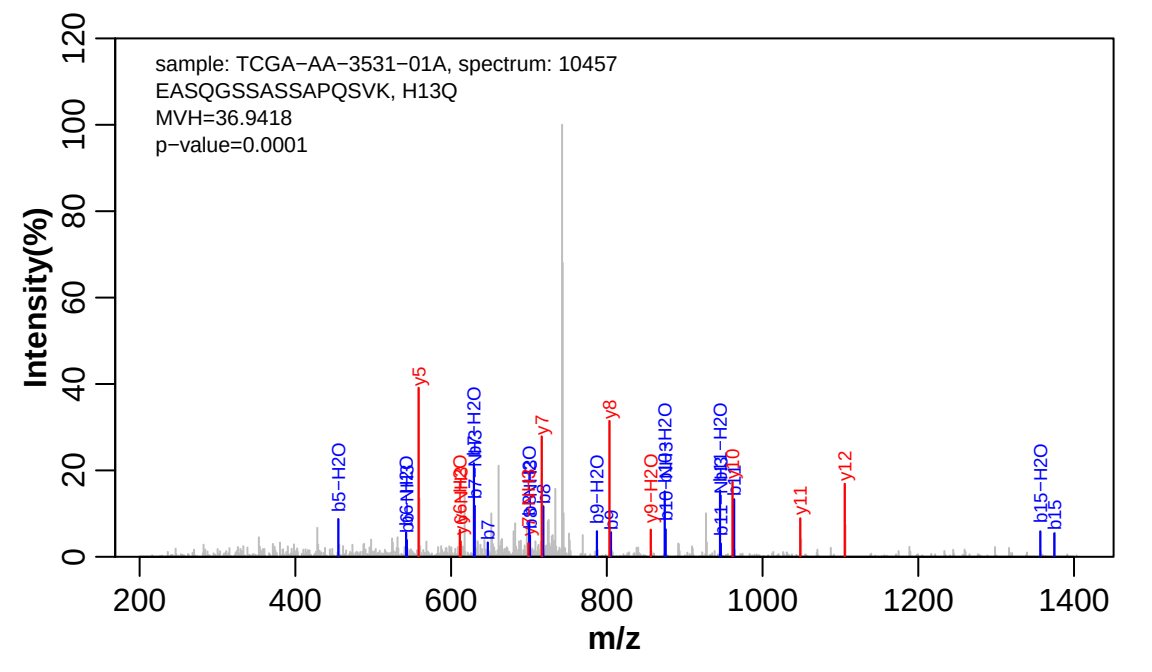

sample: TCGA−AA−3531−01A, spectrum: 14997
DTCVQSPLSSFPR, C13R
MVH=48.9165
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
y7
y8
y9
b8
b9−H2O
b10−H2O
b10
y10−H2O
y10
b11−H2O
b11

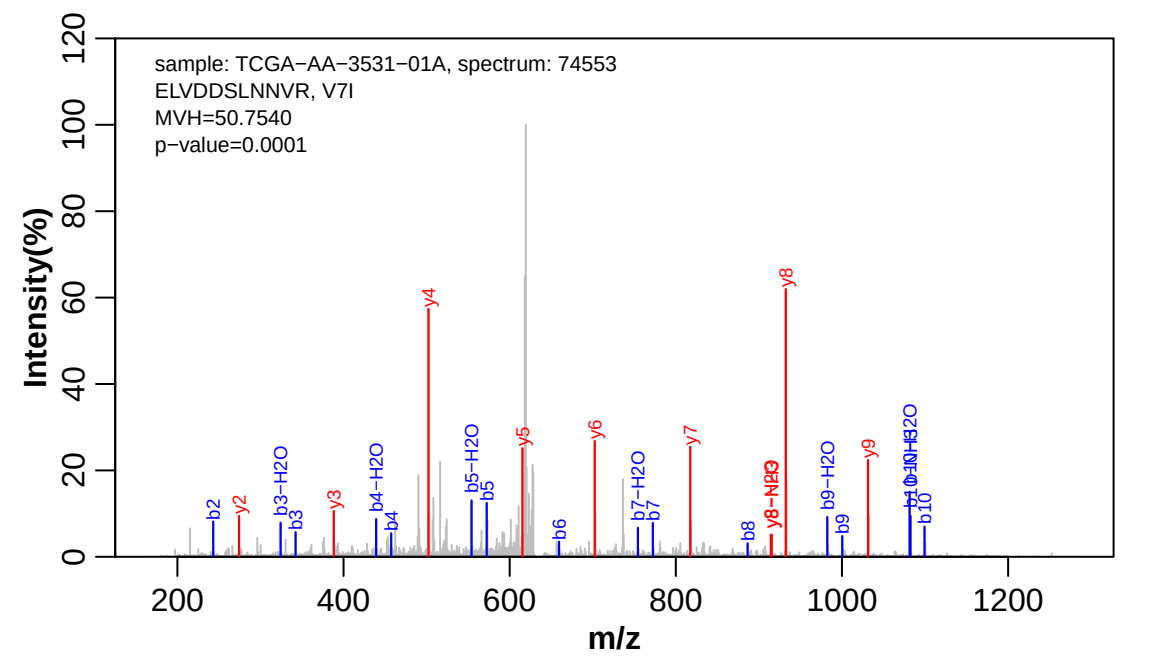

sample: TCGA−AA−3531−01A, spectrum: 43571
DTEEEDFHVDQATTVK, V12A
MVH=55.6542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y7
y8
y6
b9
b10
y10
y11
b8
b6
b7
y12
b12
y3
y5
y5−H2O
b5−H2O
b11−NH3
y10−H2O
b9−NH3

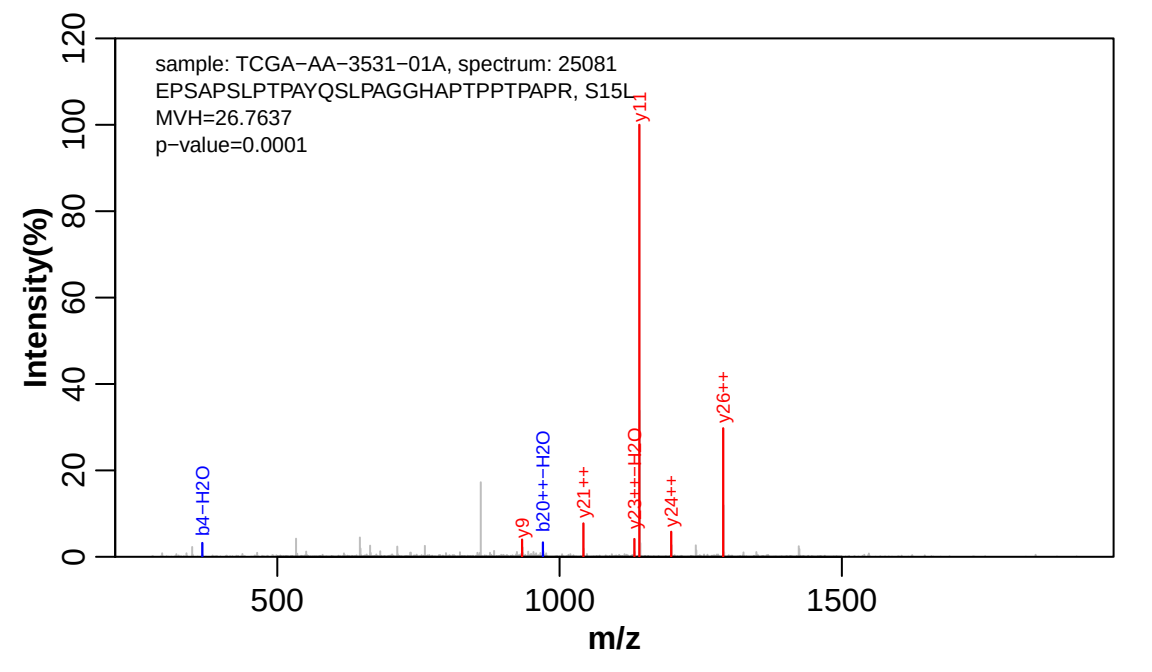

sample: TCGA−AA−3531−01A, spectrum: 114278
DVDGLTSLNAGR, K12R
MVH=50.5858
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y9
b9
b10−H2O
b10
y10
b11

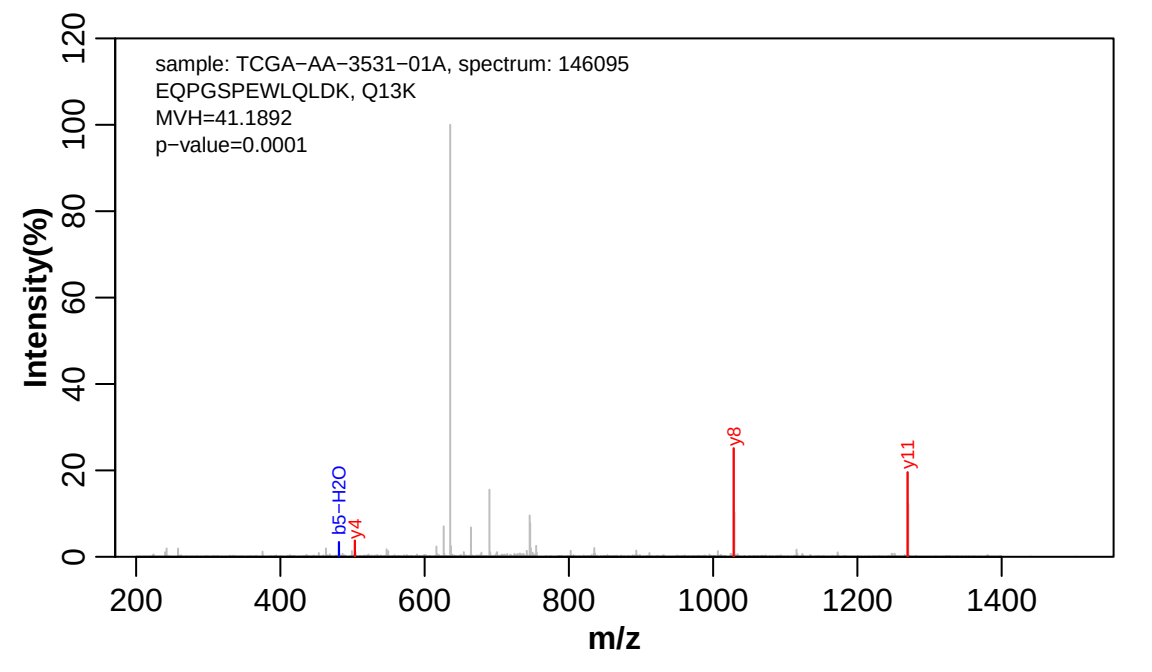

sample: TCGA−AA−3531−01A, spectrum: 134125
DVQEFLNNPK, D7N
MVH=38.4267
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b3
y3
b4−NH3
b4
y5−H2O
y5
b5
b6
b7−NH3
y7−NH3−H2O
y7
b8−NH3
b8
y8

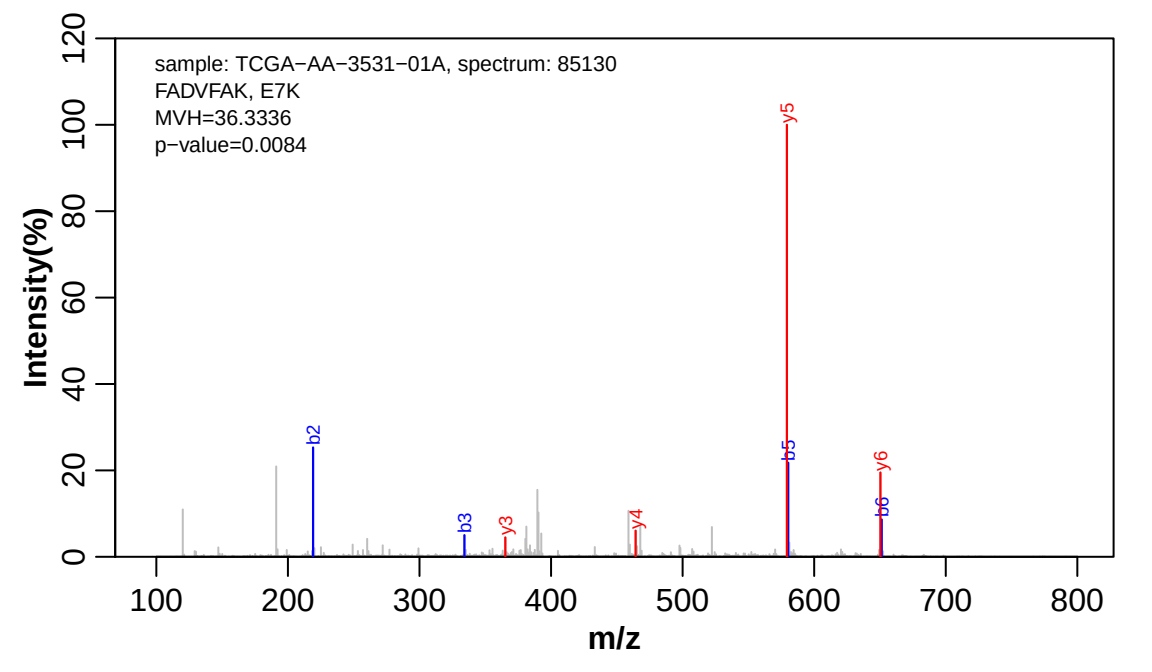

sample: TCGA−AA−3531−01A, spectrum: 125028
DVTVLQNTDGNNNDAWAK, E14D
MVH=42.2454
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y9−H2O
b4−H2O
y4
b5−H2O
y5
b6
y6
b7−NH3
y7
y8−H2O
y10
b11−NH3
y11−NH3
y13−NH3
b17

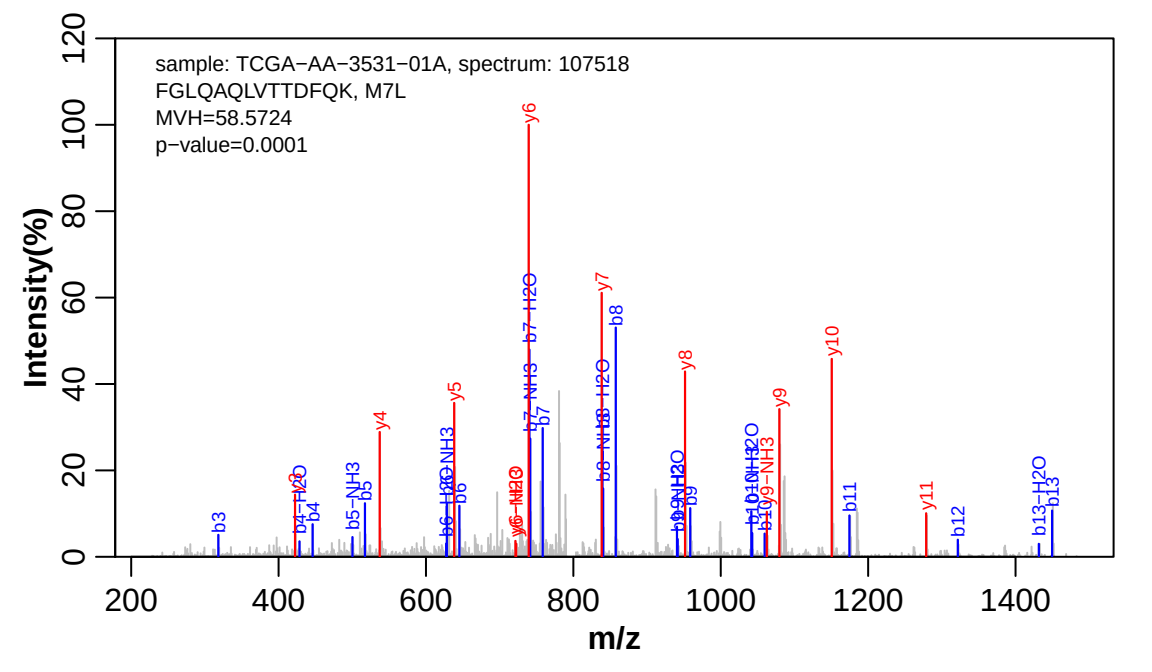

sample: TCGA−AA−3531−01A, spectrum: 10457
EASQGSSASSAPQSVK, H13Q
MVH=36.9418
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y7
y8
y9−H2O
y11
y12
b5−H2O
b7
b9
b9−H2O
b15−H2O
b15

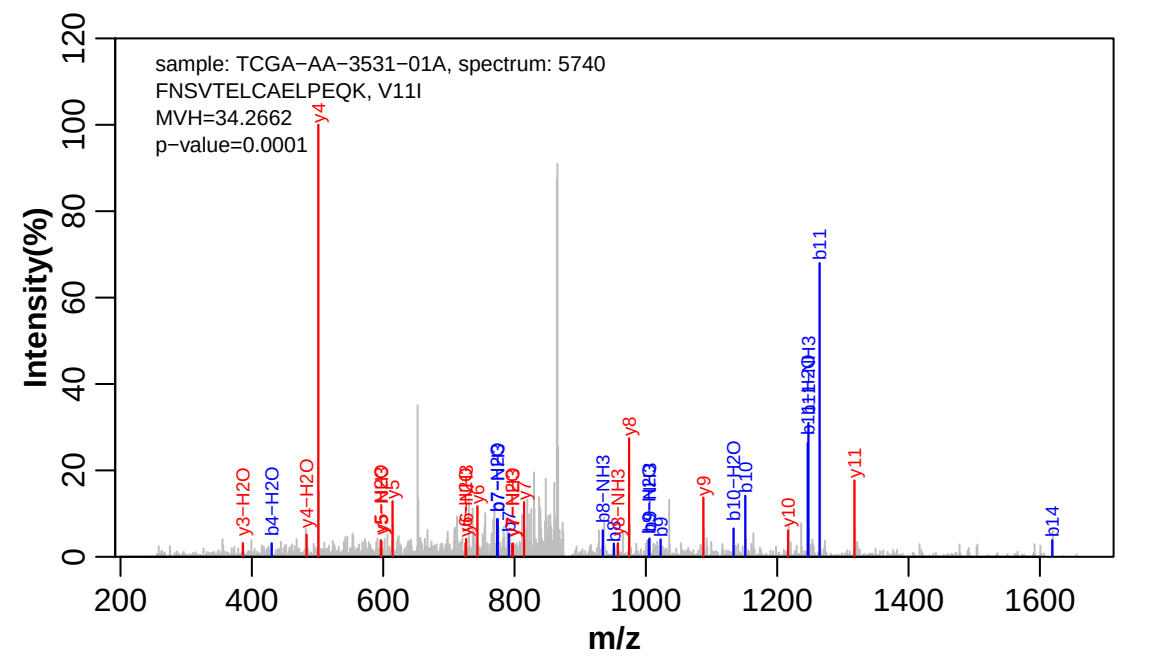

sample: TCGA−AA−3531−01A, spectrum: 74553
ELVDDSLNNVR, V7I
MVH=50.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
b8
y8−NH3
y8
b9−H2O
b9
y9
b10−H2O
b10

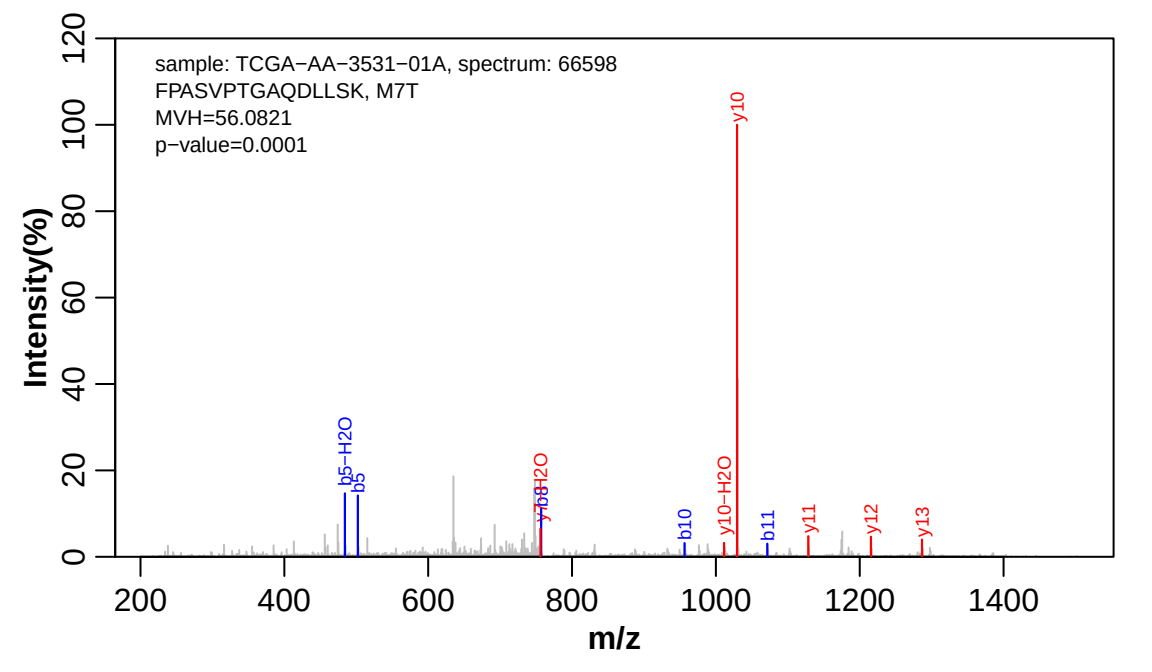

sample: TCGA−AA−3531−01A, spectrum: 25081
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=26.7637
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b4−H2O
y9
b20++−H2O
y21++
y23++−H2O
y24++
y11
y26++

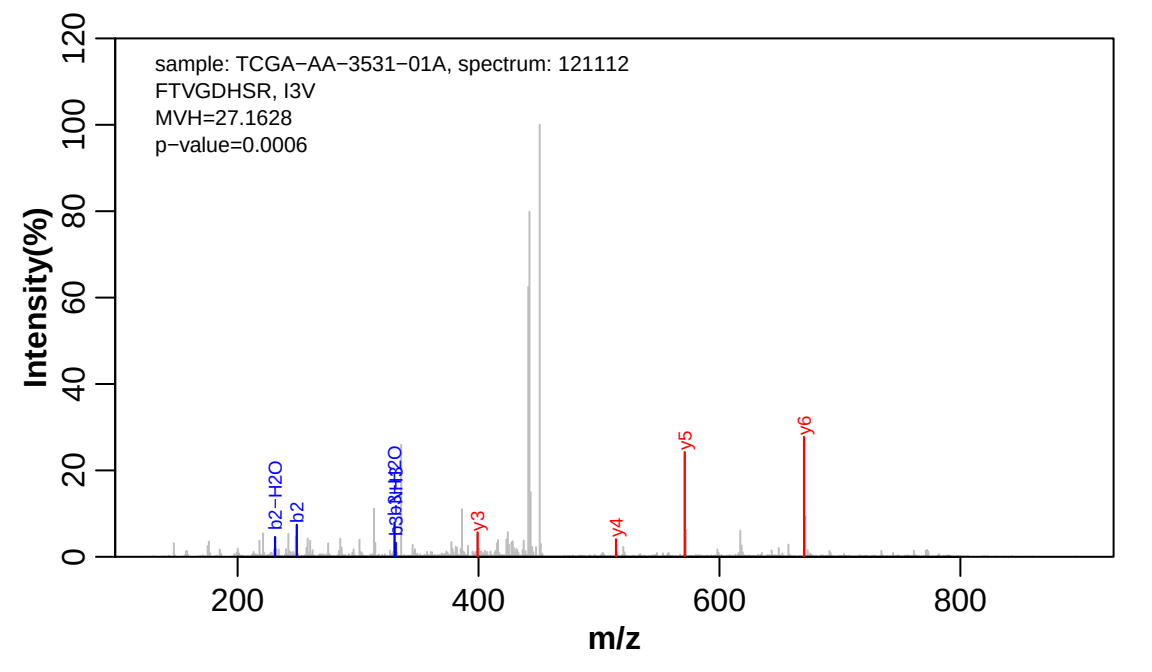

sample: TCGA−AA−3531−01A, spectrum: 146095
EQPGSPEWLQLDK, Q13K
MVH=41.1892
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

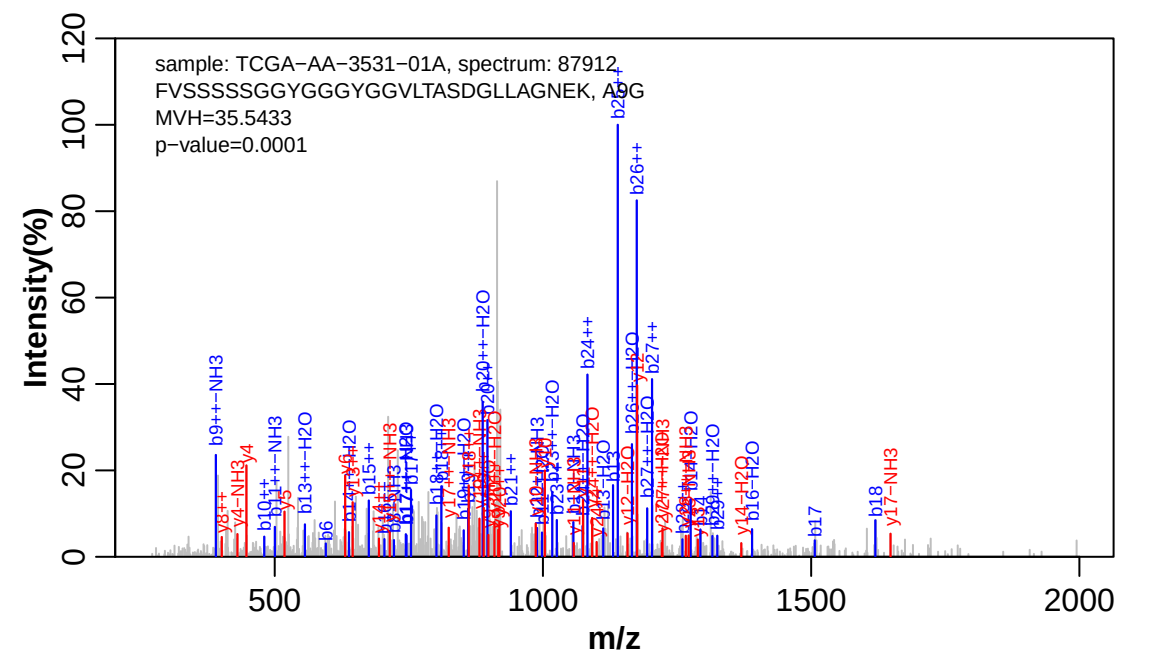

sample: TCGA−AA−3531−01A, spectrum: 85130
FADVFAK, E7K
MVH=36.3336
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

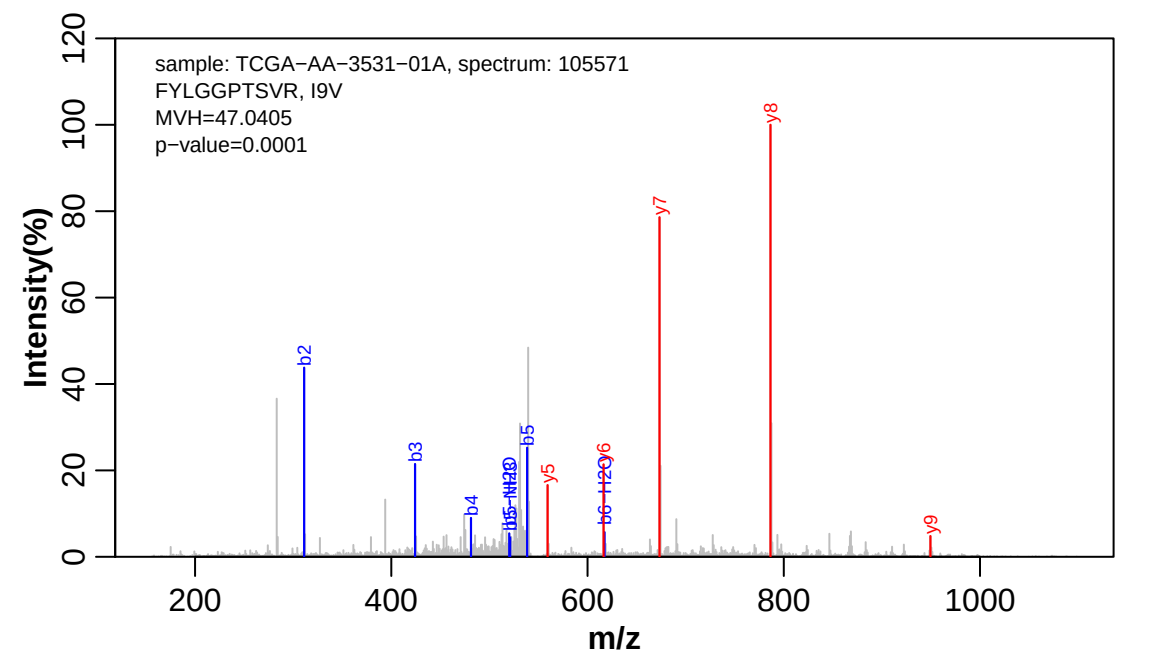

sample: TCGA−AA−3531−01A, spectrum: 107518
FGLQAQLVTTDFQK, M7L
MVH=58.5724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y7
y8
y10
y9
y5
y4
y11
b3
b4
b5
b6
b7
b8
b11
b12
b13
b7−H2O
b7−NH3
b8−NH3
b8−H2O
b9−NH3
b9−H2O
b13−H2O
b13−NH3
b6−H2O
b6−NH3
b5−NH3
b4−H2O
b4−NH3
y6−H2O
y6−NH3
y5−H2O
y5−NH3
y4−H2O
y4−NH3
b10−H2O
b10−NH3
b9−NH3

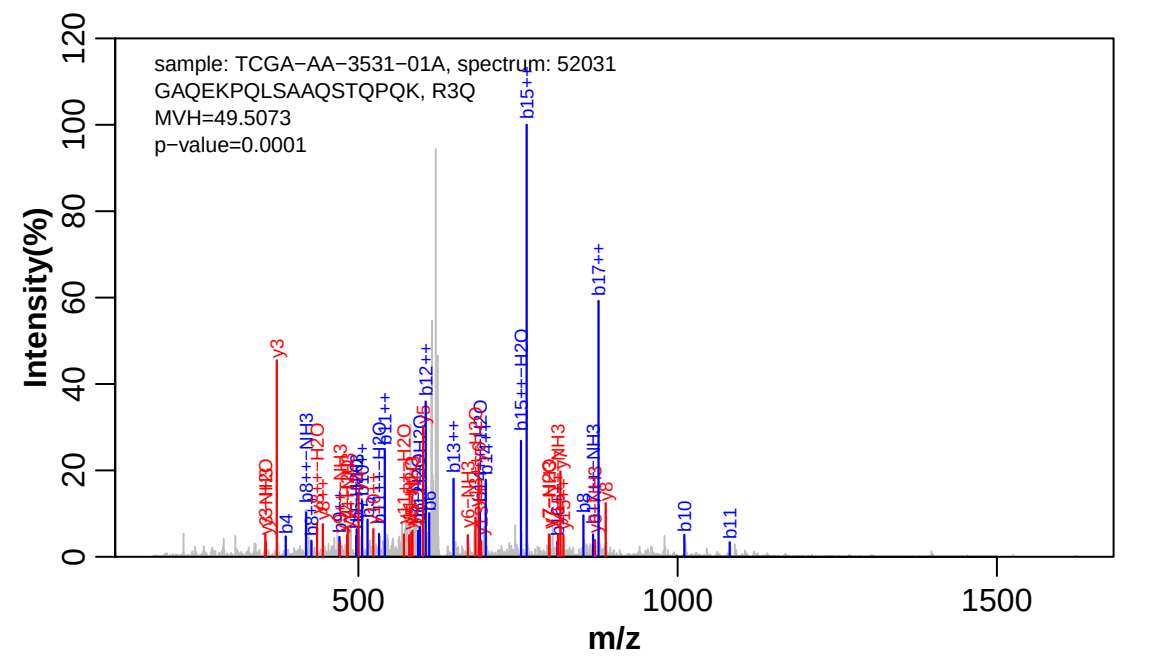

sample: TCGA−AA−3531−01A, spectrum: 5740
FNSVTELCAELPEQK, V11I
MVH=34.2662
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y3−H2O
b4−H2O
y4−H2O
y5
y6
y7
y8
b8−NH3
y9
b10−H2O
b10
y10
b11
y11
b14

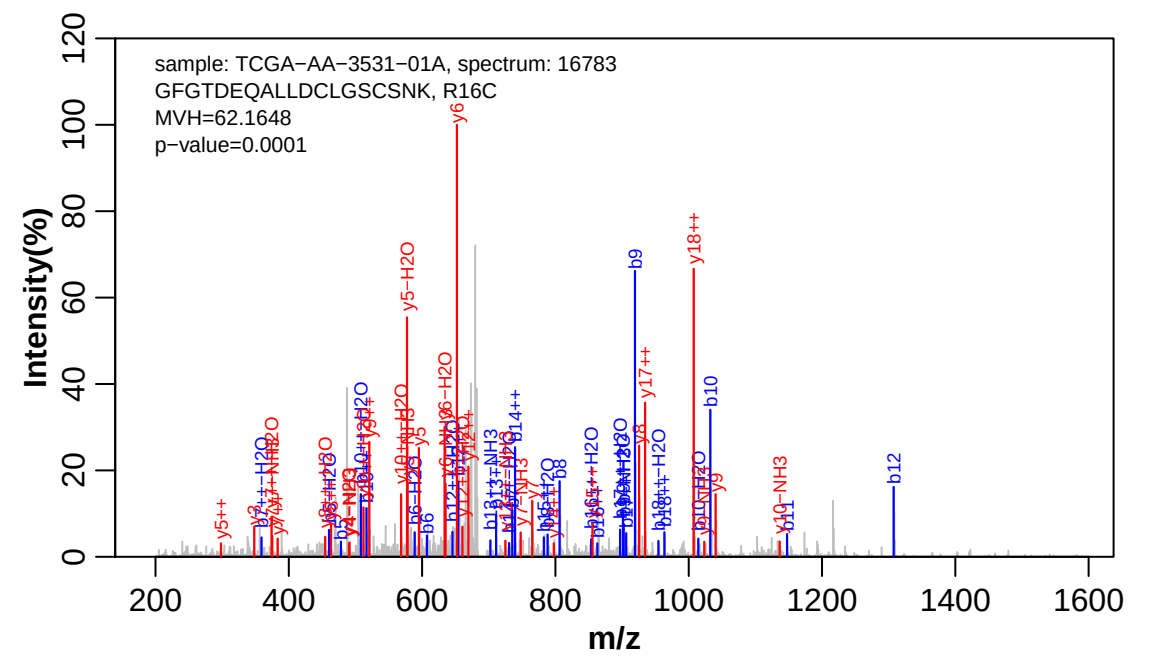

sample: TCGA−AA−3531−01A, spectrum: 66598
FPASVPTGAQDLLSK, M7T
MVH=56.0821
p−value=0.0001
Intensity(%)
m/z
y10
b5−H2O
b5
y7−H2O
b10
y10−H2O
b11
y11
y12
y13

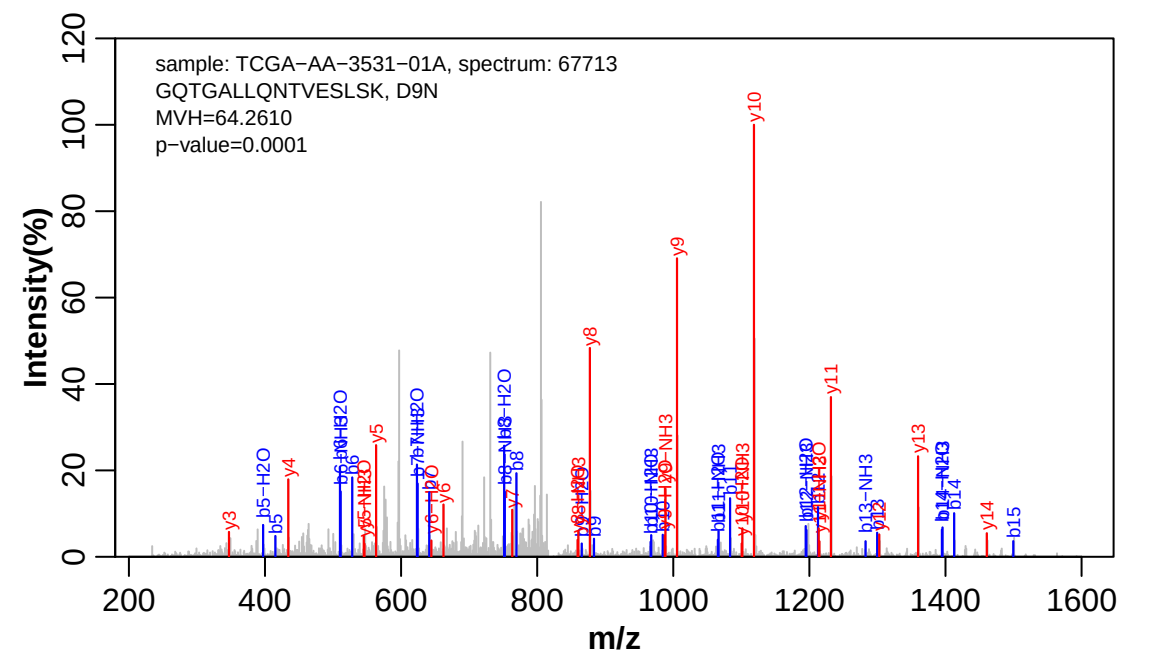

sample: TCGA−AA−3531−01A, spectrum: 121112
FTVGDHSR, I3V
MVH=27.1628
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
y3
y4
y5
y6

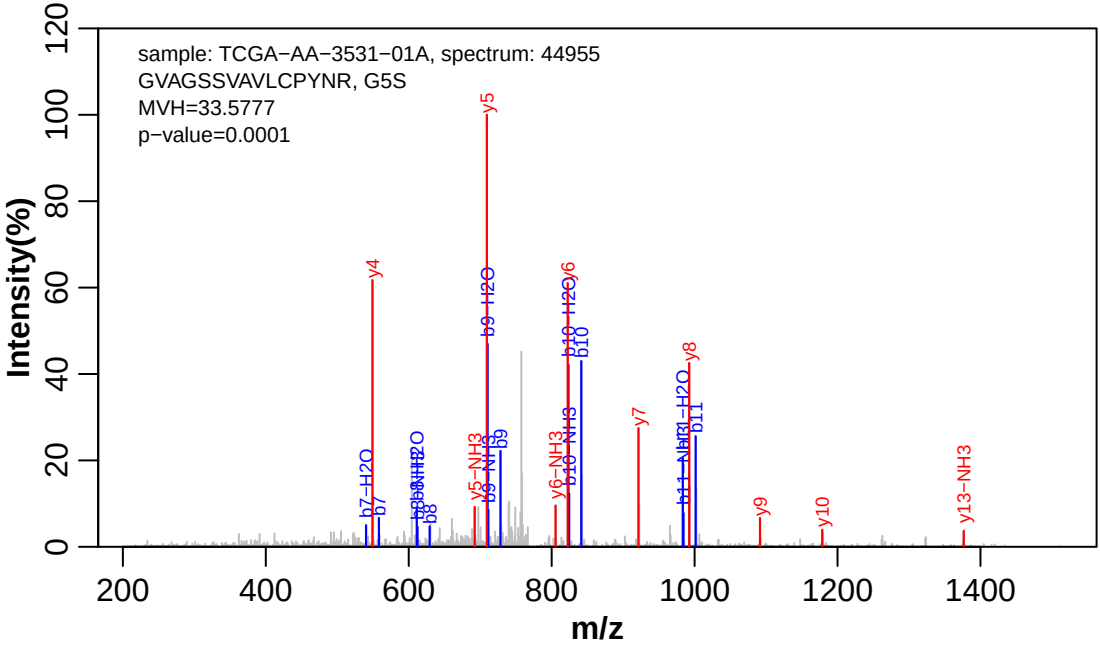

sample: TCGA−AA−3531−01A, spectrum: 87912
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=35.5433
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y8++
y4−NH3
y4
b10++−NH3
b11++−NH3
y5
b13++−H2O
b6
b14++−H2O
b15++
b16++−NH3
b17++−NH3
b18++−H2O
y17++−NH3
b20++−H2O
b21++
b24++
b26++
y12−H2O
b27++−H2O
b27++
b28++−H2O
b29++−H2O
y14−H2O
b16−H2O
b17
b18
y17−NH3

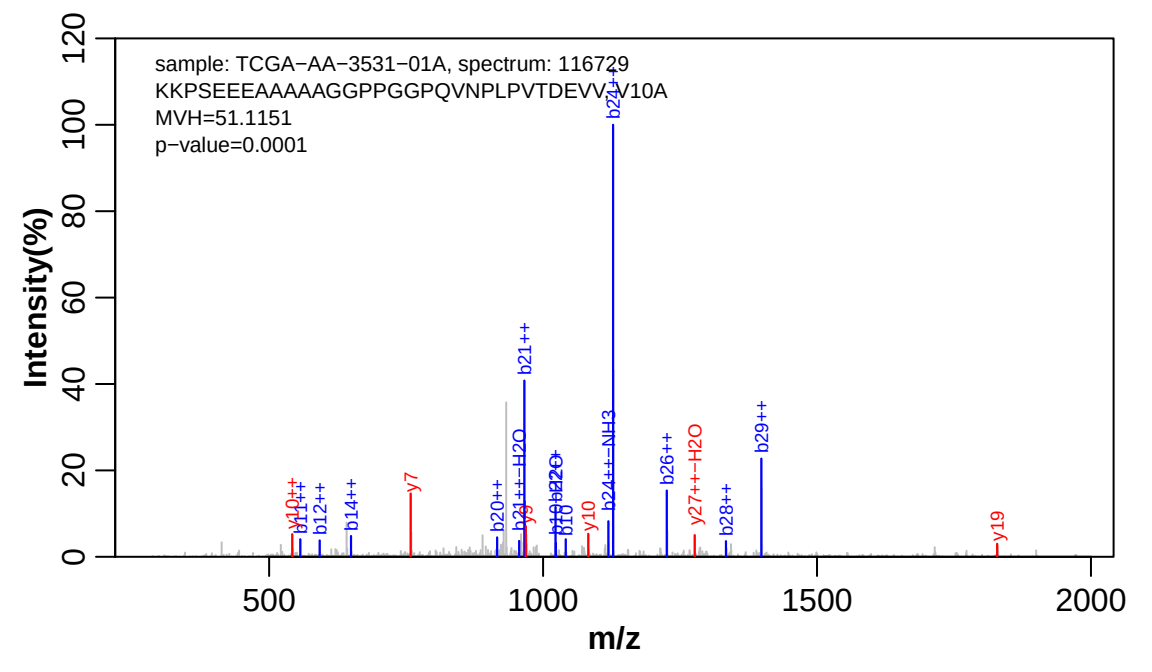

sample: TCGA−AA−3531−01A, spectrum: 105571
FYLGGPTSVR, I9V
MVH=47.0405
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
y7
y8
y9

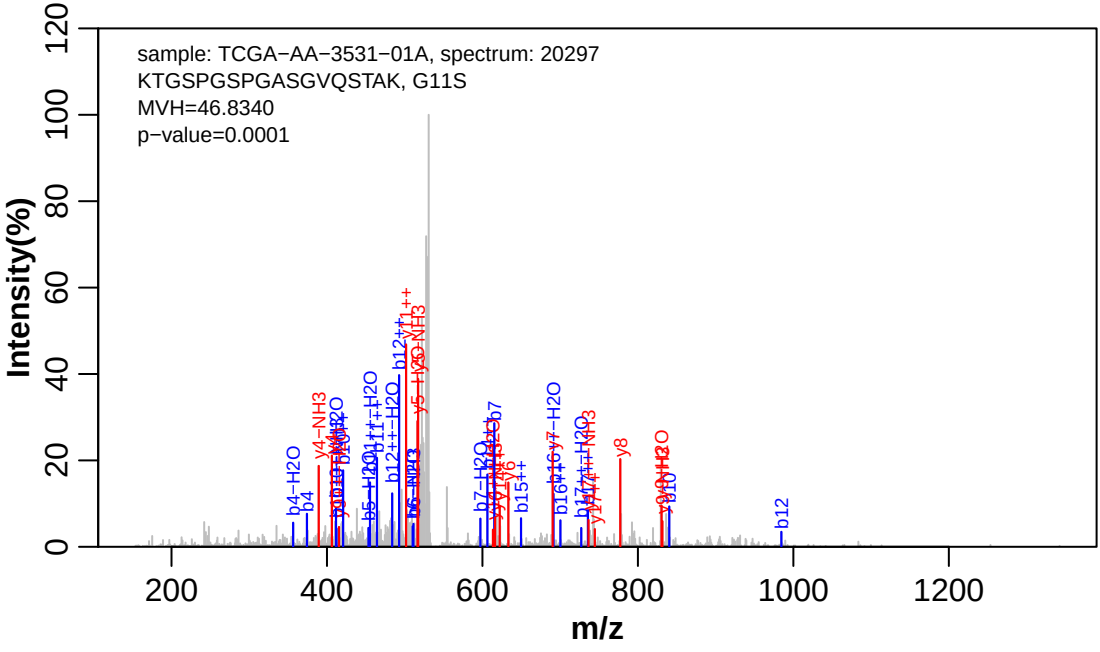

sample: TCGA−AA−3531−01A, spectrum: 52031
GAQEKPQLSAAQSTQPQK, R3Q
MVH=49.5073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
y3
b17++
b15++−H2O
b12++
b13++
b10
b11
b8
y8

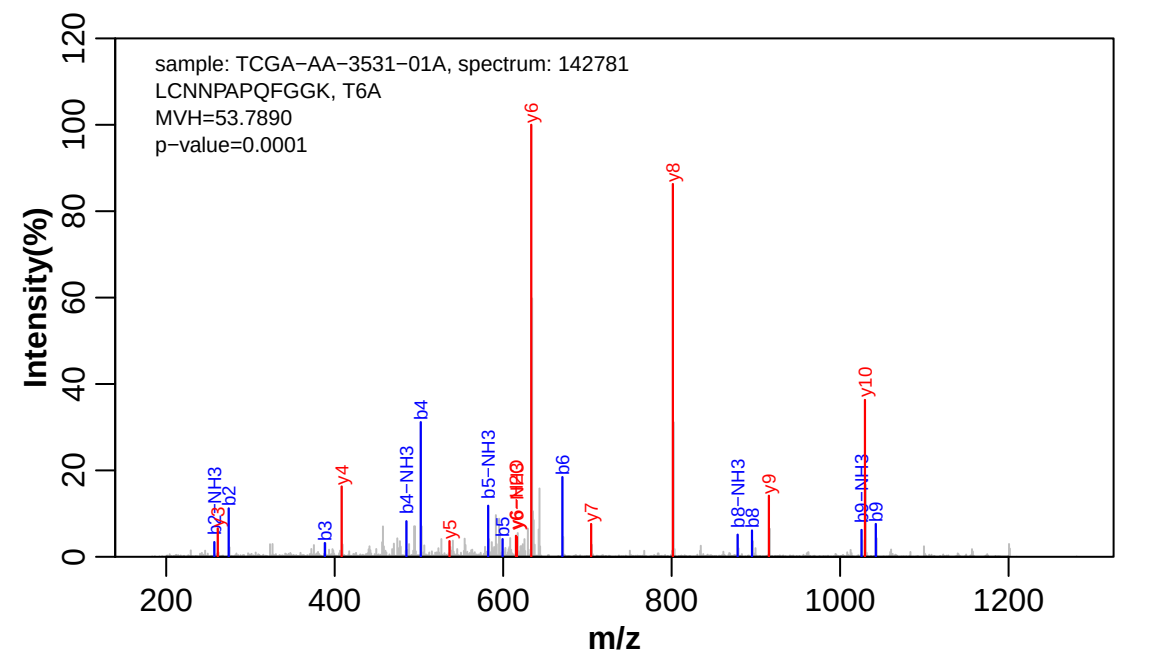

sample: TCGA−AA−3531−01A, spectrum: 16783
GFGTDEQALLDCLGSCSNK, R16C
MVH=62.1648
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y5−H2O
y18++
b9
y17++
b10
b12
y5++
y10−NH3

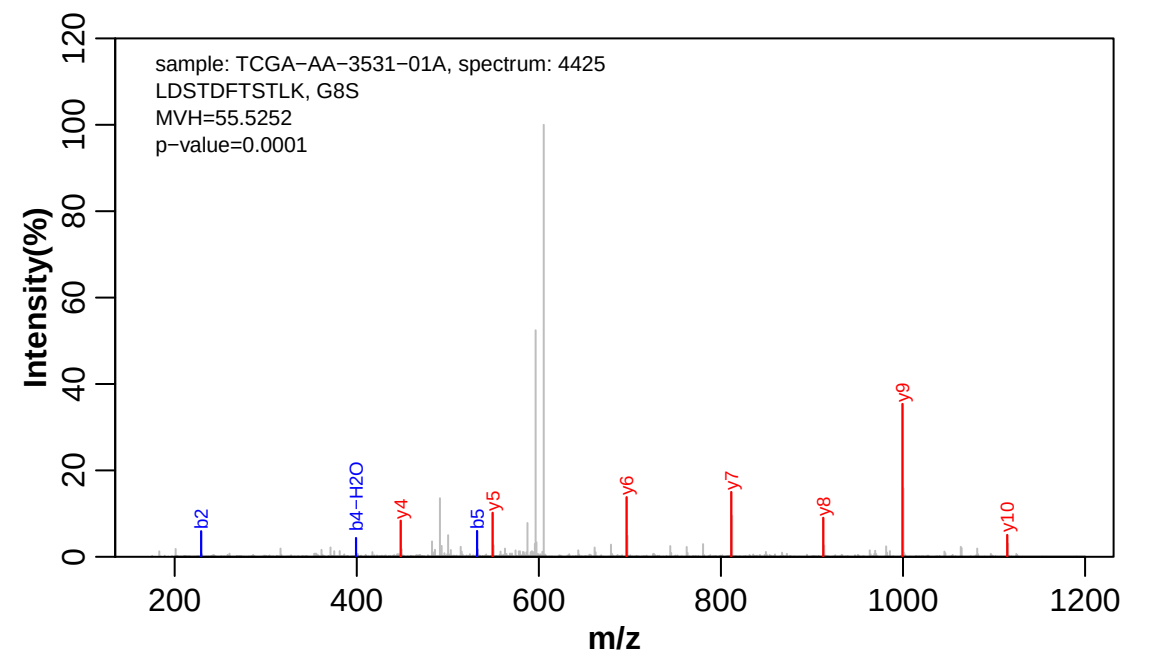

sample: TCGA−AA−3531−01A, spectrum: 67713
GQTGALLQNTVESLSK, D9N
MVH=64.2610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y5
y4
y3
y13
y14
b15
b5−H2O
b5
b14
b13−NH3
b8−NH3
b8−H2O

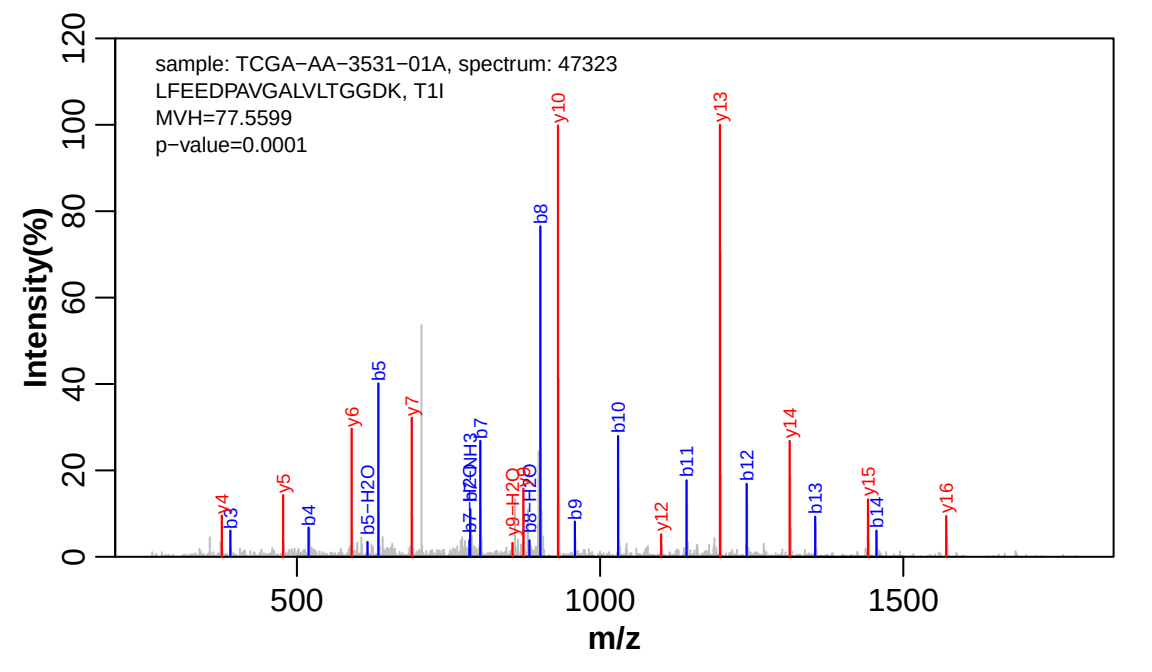

sample: TCGA−AA−3531−01A, spectrum: 44955
GVAGSSVAVLCPYNR, G5S
MVH=33.5777
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
y6
b10−H2O
b10
y8
y7
b11−H2O
b11
y9
y10
y13−NH3
b7−H2O
b7
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3

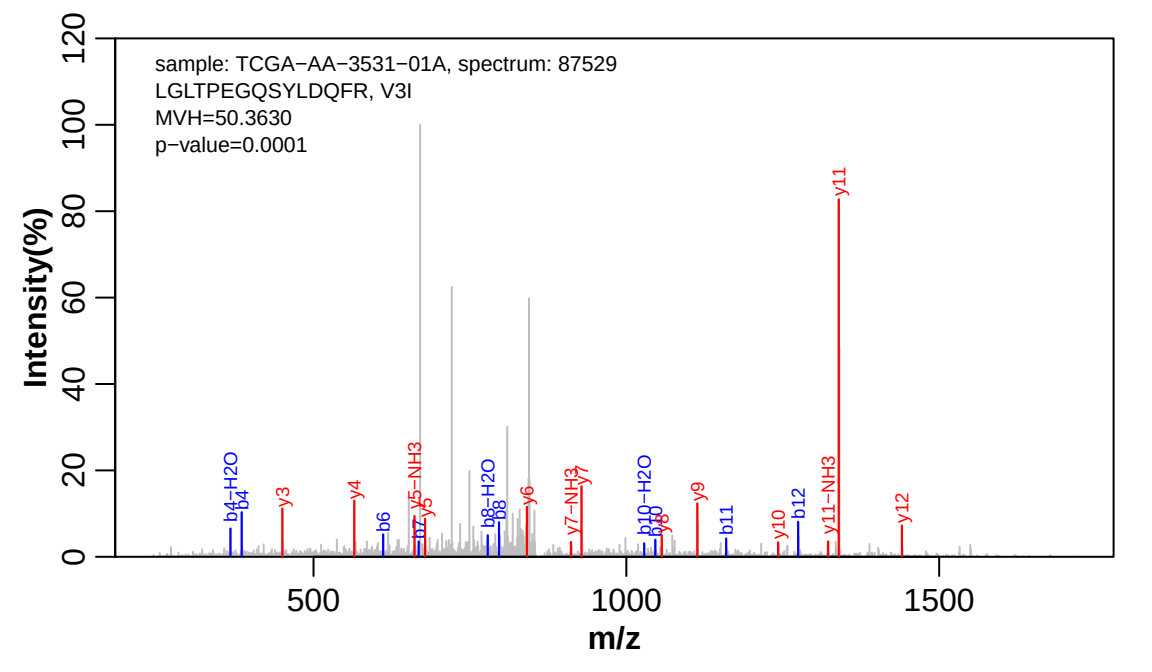

sample: TCGA−AA−3531−01A, spectrum: 116729
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=51.1151
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
b21++
b21++−H2O
b24++−NH3
b26++
y27++−H2O
b29++
y19
y10++
b11++
b12++
b14++
y7
b20++
y10
b28++

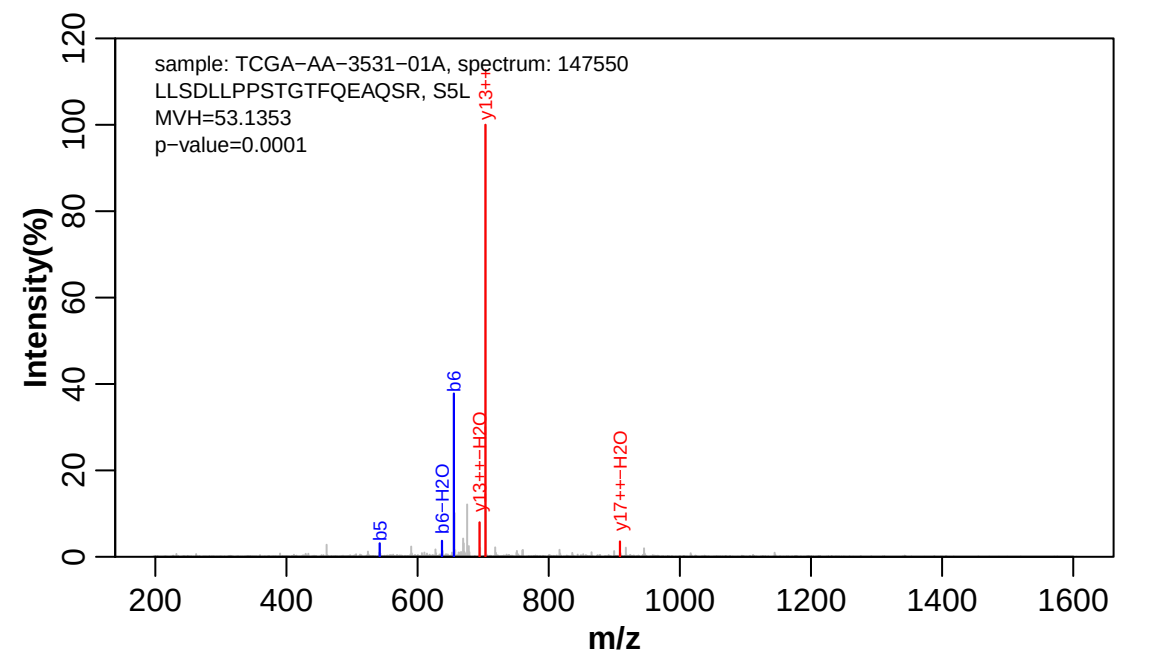

sample: TCGA−AA−3531−01A, spectrum: 20297
KTGSPGSPGASGVQSTAK, G11S
MVH=46.8340
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
b11++−H2O
b11++
b12++−H2O
b12++
b12++
y5−H2O
y5−NH3
y5
y11++
b7−H2O
b7
y6
b15++
b16
b16++
y7−H2O
y7
b17++−H2O
b17++
y8
b10
b12

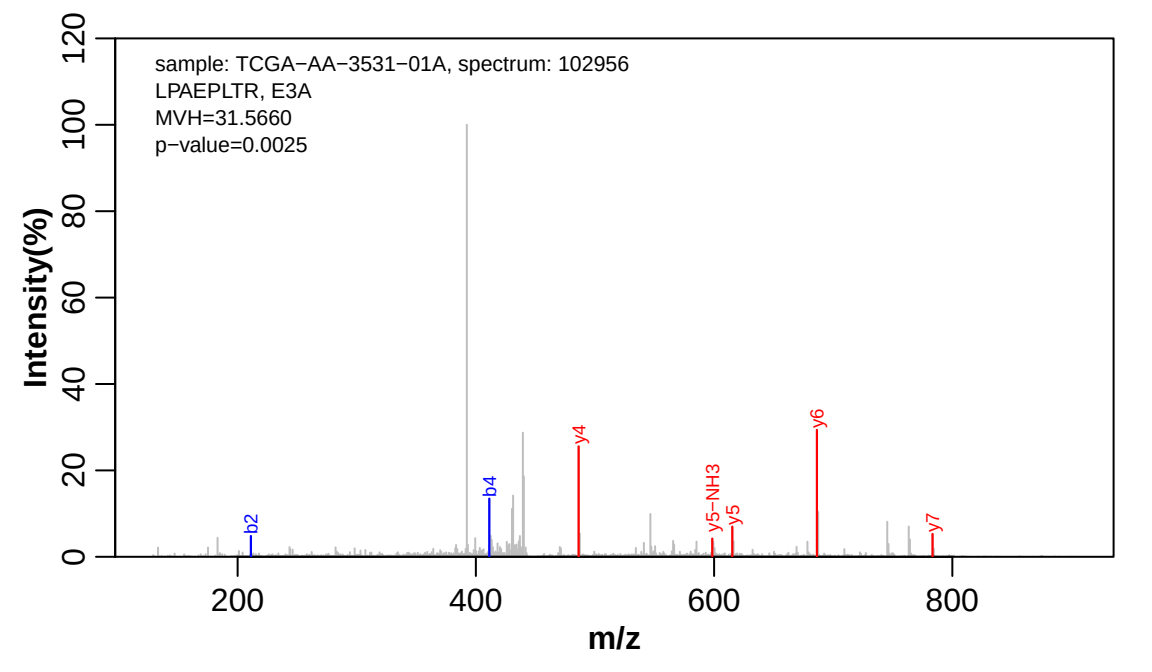

sample: TCGA−AA−3531−01A, spectrum: 142781
LCNNPAPQFGGK, T6A
MVH=53.7890
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y8
y10
b4
b4−NH3
b5−NH3
b6
y4
y5
y7
y9
b2−NH3
b2
b3
b5
b8−NH3
b8
b9−NH3
b9

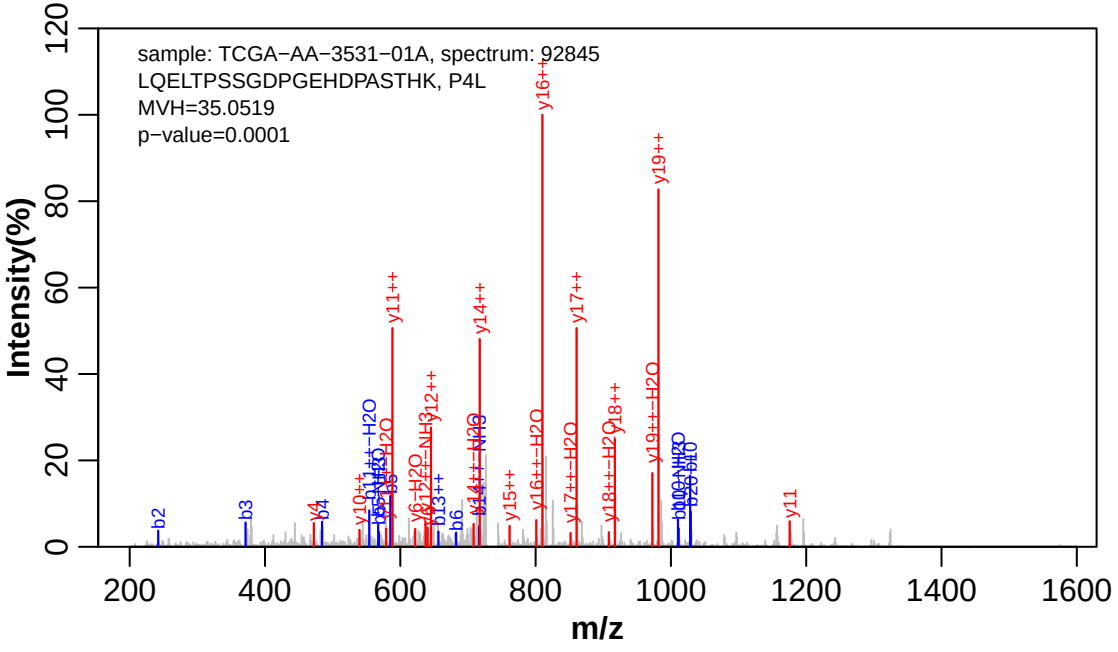

sample: TCGA−AA−3531−01A, spectrum: 4425
LDSTDFTSTLK, G8S
MVH=55.5252
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5
y5
y6
y7
y8
y9
y10

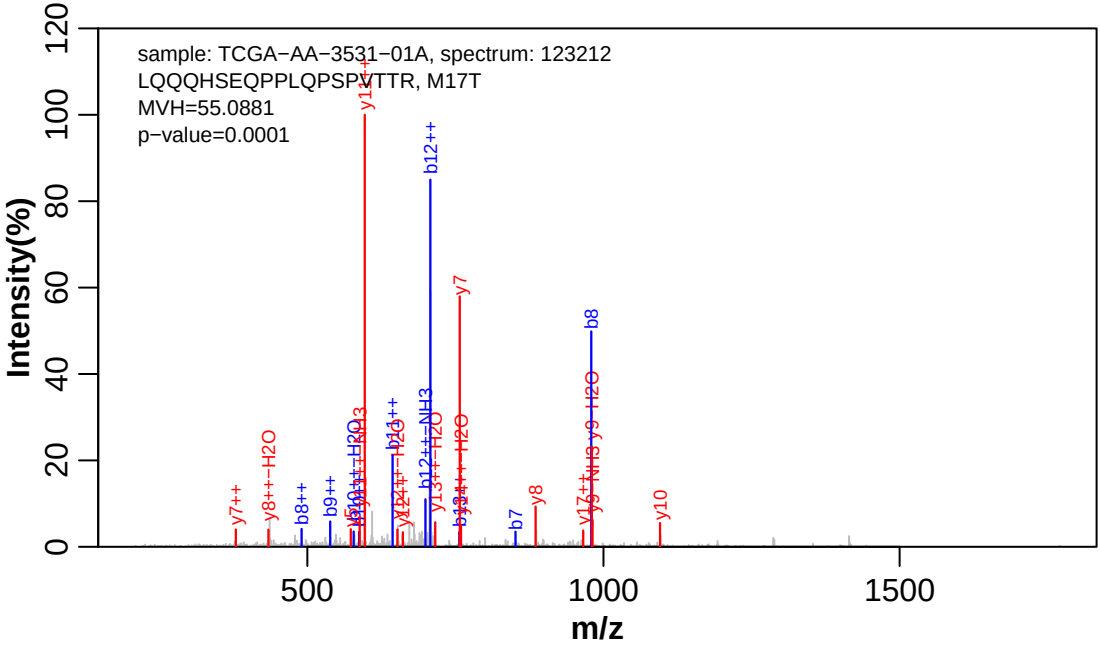

sample: TCGA−AA−3531−01A, spectrum: 47323
LFEEDPAVGALVLTGGDK, T1I
MVH=77.5599
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
b7
b10
y14
b11
b12
b13
y15
y16
y5
y4
b3
b4
b5−H2O
b7−NH3
y9−H2O
b8−H2O
b9
y12
b14

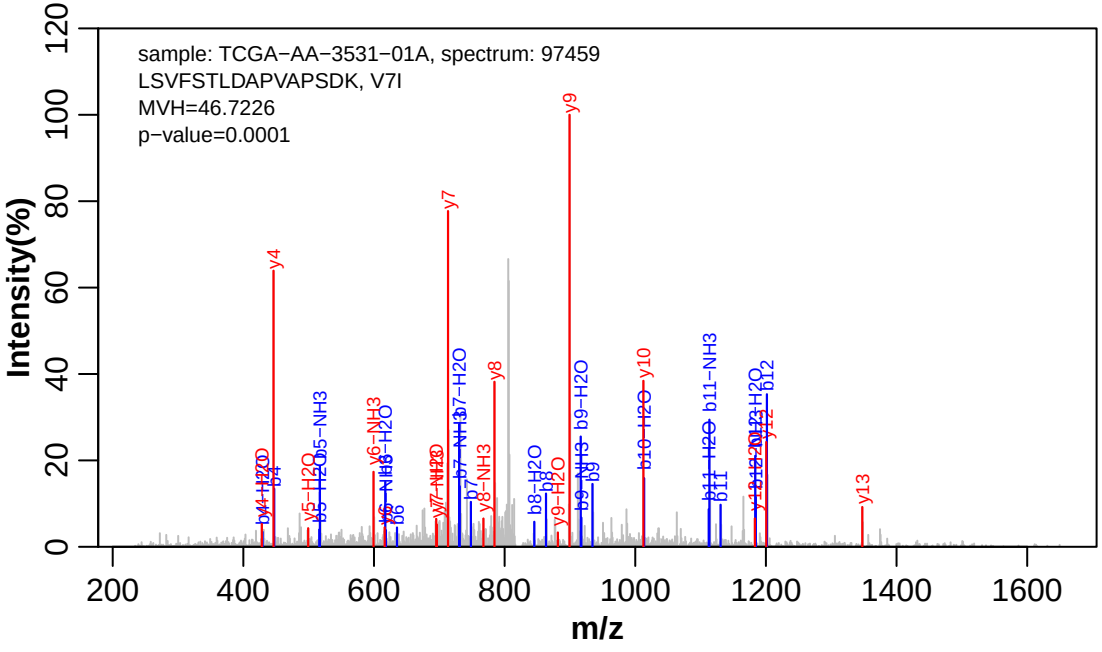

sample: TCGA−AA−3531−01A, spectrum: 87529
LGLTPEGQSYLDQFR, V3I
MVH=50.3630
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
b6
b7
y5−NH3
y5
b8−H2O
b8
y6
y7−NH3
y7
b10−H2O
b10
y8
y9
b11
y10
b12
y11−NH3
y11
y12

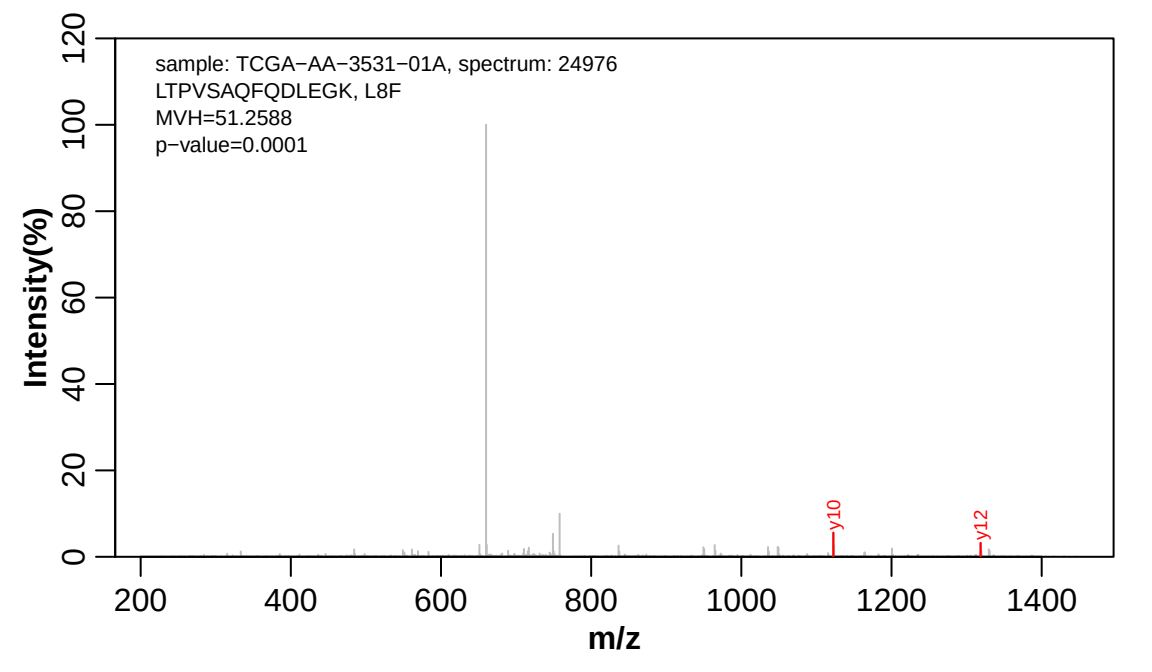

sample: TCGA−AA−3531−01A, spectrum: 147550
LLSDLLPPSTGTFQEAQSR, S5L
MVH=53.1353
p−value=0.0001
y13++
b6
b6−H2O
y13++−H2O
y17++−H2O
b5
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

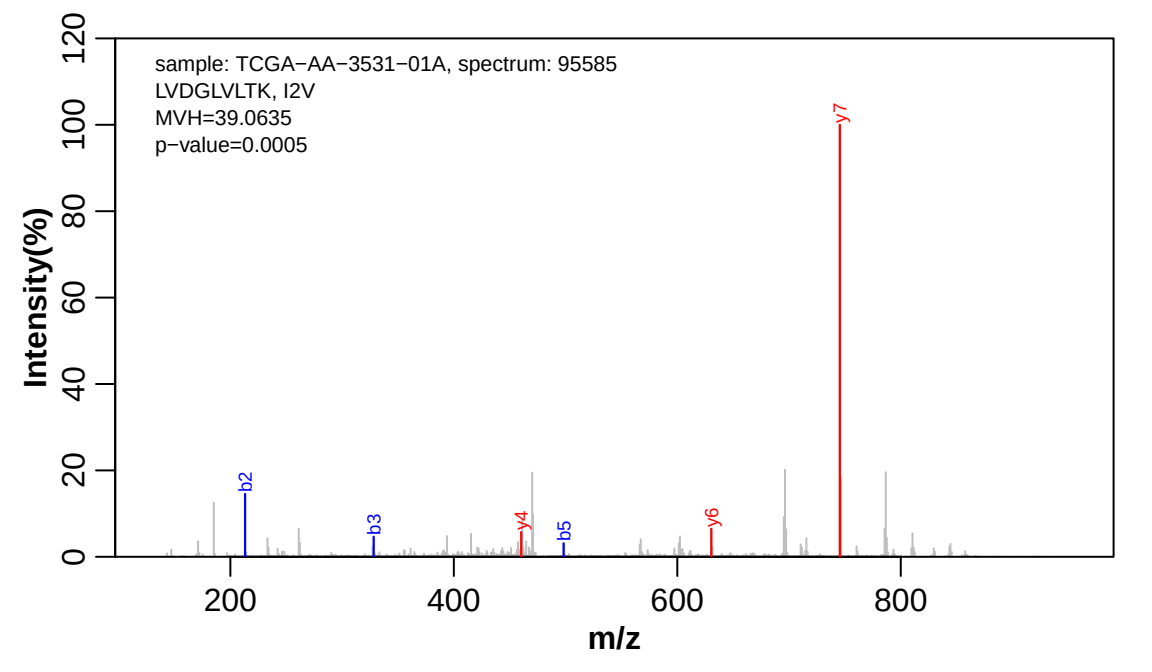

sample: TCGA−AA−3531−01A, spectrum: 102956
LPAEPLTR, E3A
MVH=31.5660
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5−NH3
y5
y6
y7

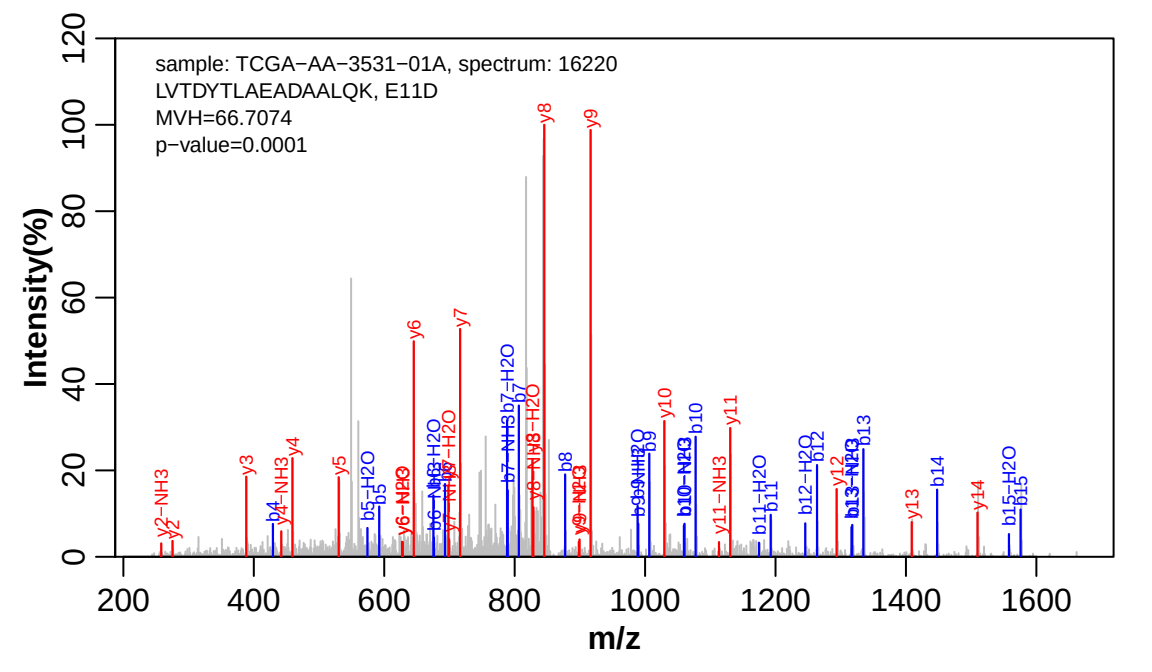

sample: TCGA−AA−3531−01A, spectrum: 92845
LQELTPSSGDPGEHDPASTHK, P4L
MVH=35.0519
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3
y4
b4
y10++
y11++
y11++−H2O
y12++
y12++−NH3
b13++
b6
y14++
y14++−H2O
y15++
y16++
y16++−H2O
y17++
y17++−H2O
y18++
y18++−H2O
y19++
y19++−H2O
y11

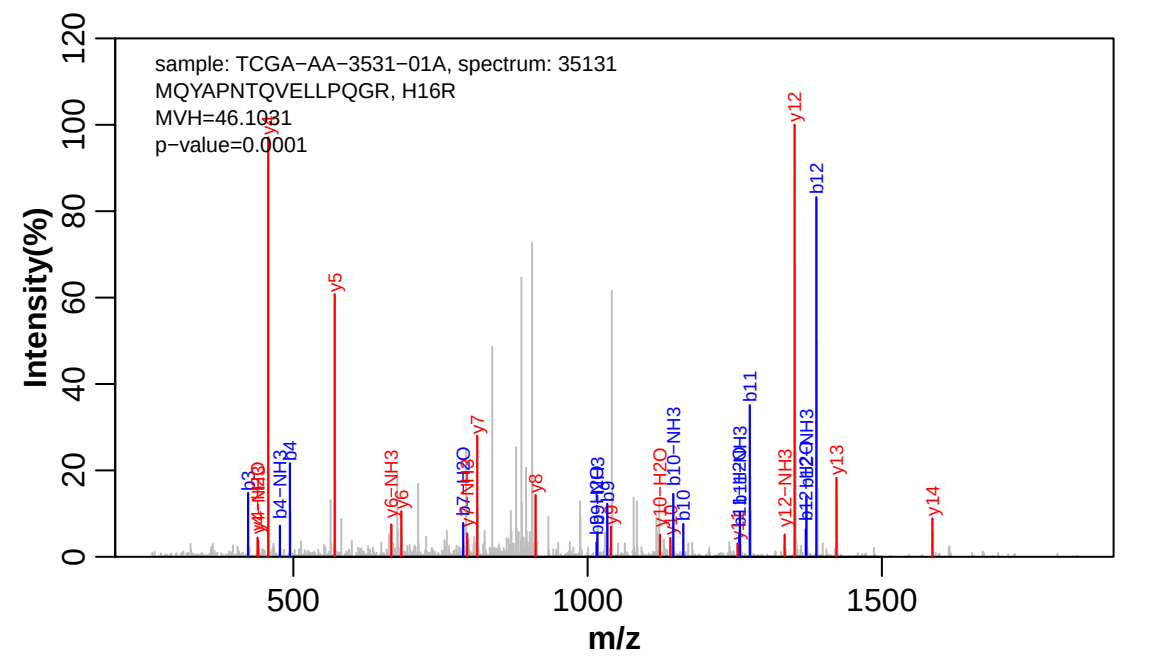

sample: TCGA−AA−3531−01A, spectrum: 123212
LQQQHSEQPPLQPSPVTTR, M17T
MVH=55.0881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7
b8
y7++
y8++−H2O
b8++
b9++
b11++
y12++
y13++−H2O
b12++−NH3
b12++−H2O
b7
y8
y7++
y10

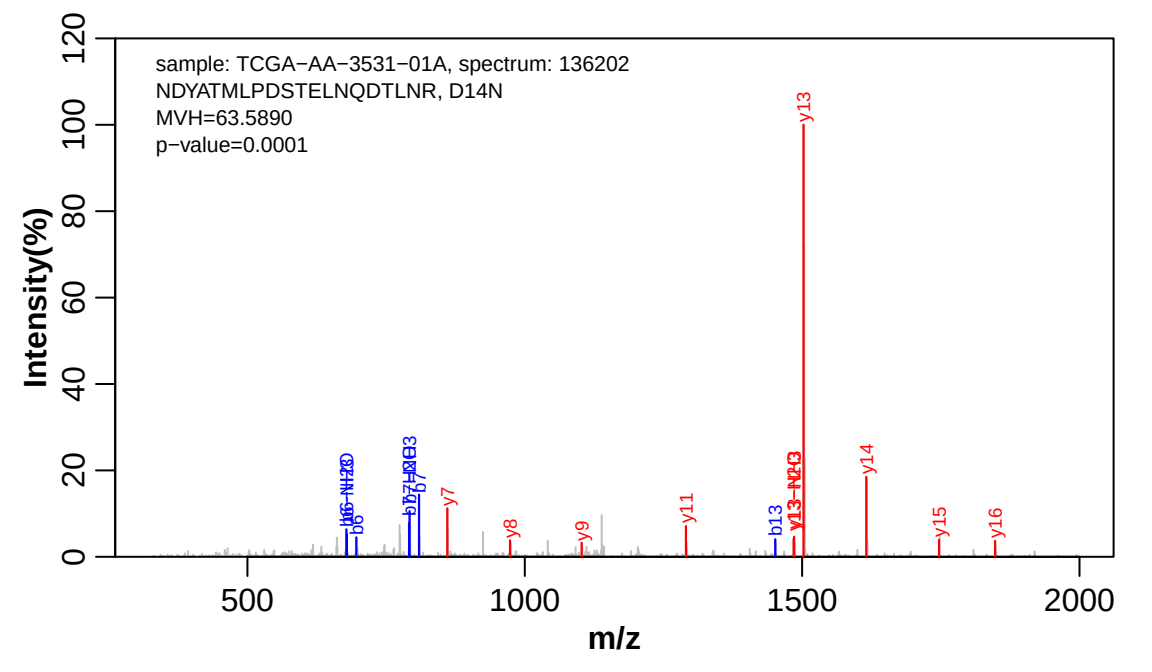

sample: TCGA−AA−3531−01A, spectrum: 97459
LSVFSTLDAPVAPSDK, V7I
MVH=46.7226
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y4
y7
y8
y10
y13
b10−H2O
b11−NH3
b11−H2O
b9−H2O
b8−H2O
b7−H2O
b5−NH3
y6−NH3
y8−NH3
y9−H2O
y5−H2O

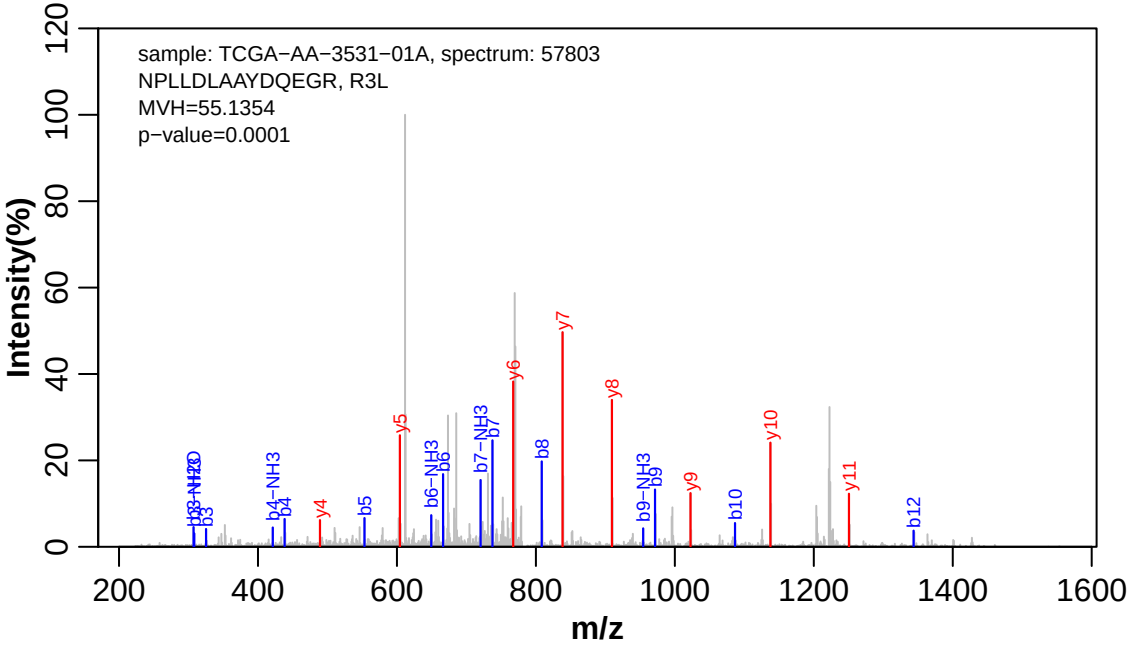

sample: TCGA−AA−3531−01A, spectrum: 24976
LTPVSAQFQDLEGK, L8F
MVH=51.2588
p−value=0.0001
y10
y12
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

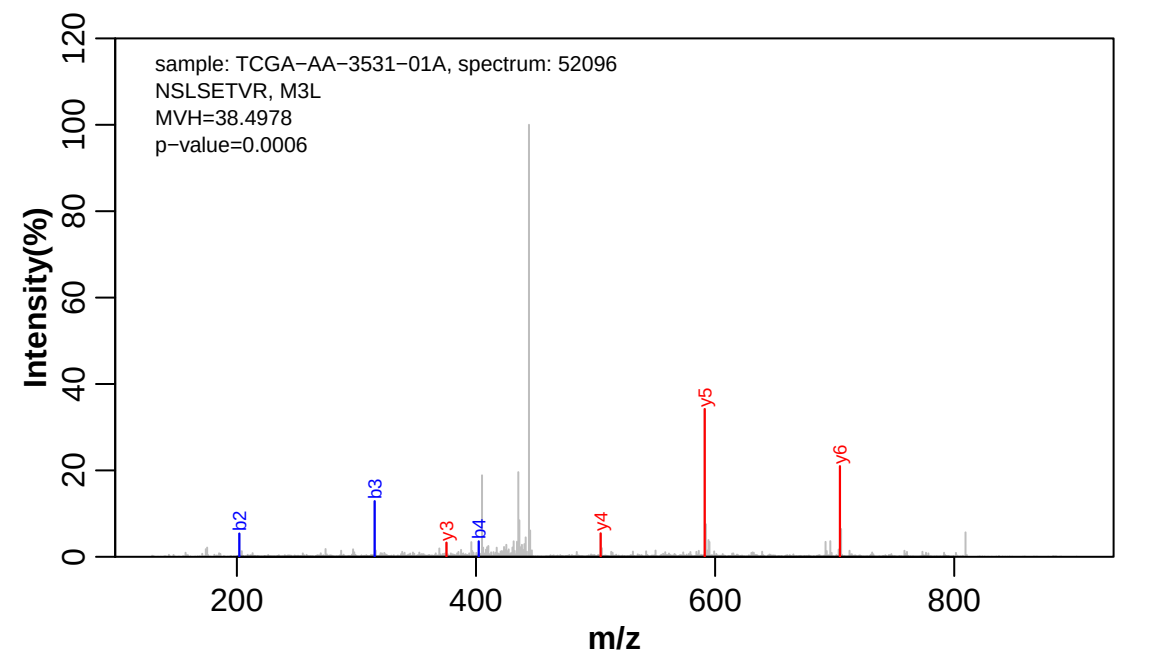

sample: TCGA−AA−3531−01A, spectrum: 95585
LVDGLVLTK, I2V
MVH=39.0635
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
b5
y6
y7

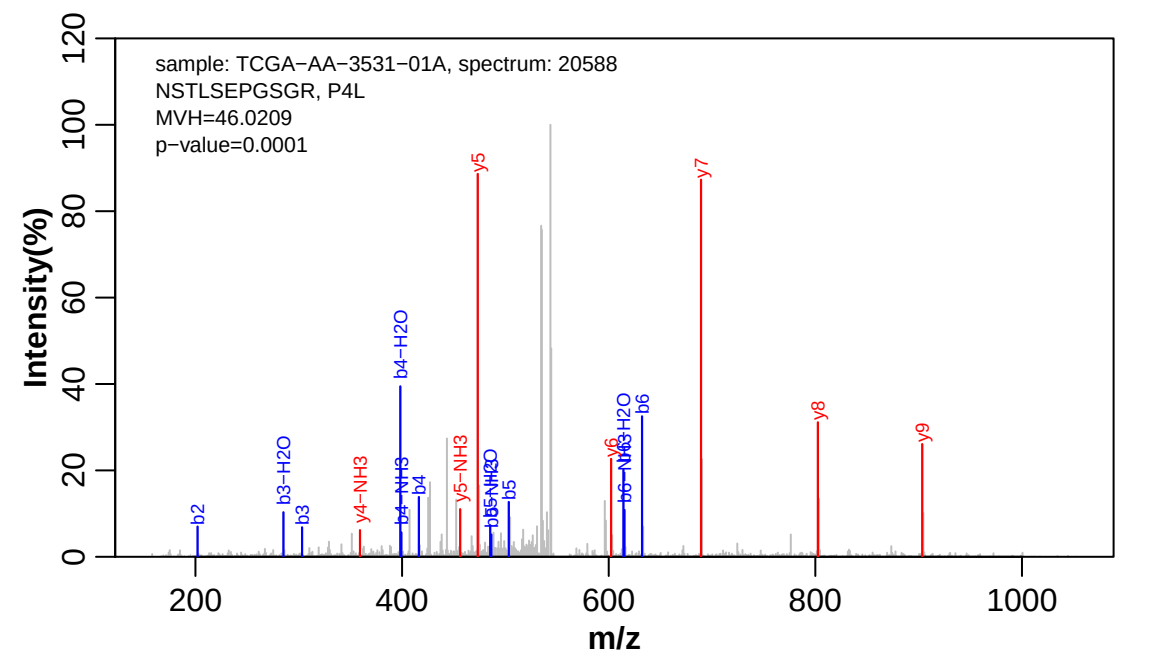

sample: TCGA−AA−3531−01A, spectrum: 16220
LVTDYTLAEADAALQK, E11D
MVH=66.7074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y9
y6
y7
y3
y4
y5
y10
y11
y12
y13
y14
b10
b11
b12
b13
b14
b15
b8
b9
b7
b5
b4
y2
y2−NH3
y4−NH3
b5−H2O
b6−H2O
b7−H2O
y8−H2O
y11−NH3
b11−H2O
b12−H2O
b15−H2O

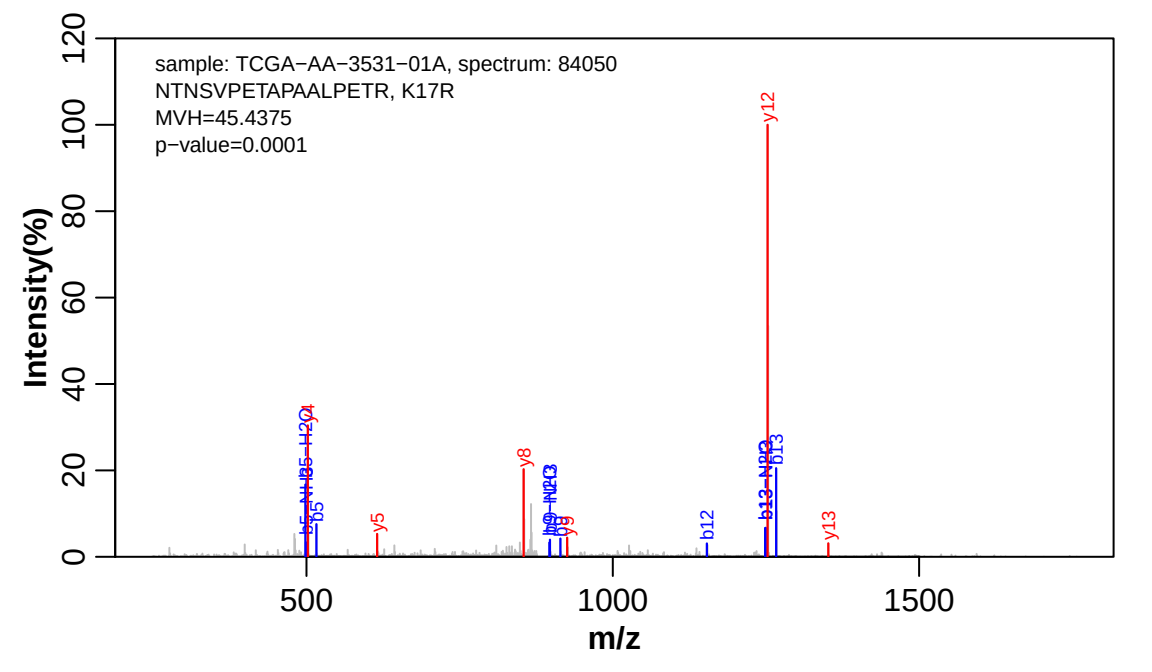

sample: TCGA−AA−3531−01A, spectrum: 35131
MQYAPNTQVELLPQGR, H16R
MVH=46.1031
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
b12
y5
y13
b11
y14
y7
y8
b4
b4−NH3
y6−NH3
y6
y12−NH3
b10−NH3
b10
y10−H2O
y10
b3
y4
y4−NH3
y7−NH3
b7−NH3
b7−H2O
b12−NH3
b12−H2O

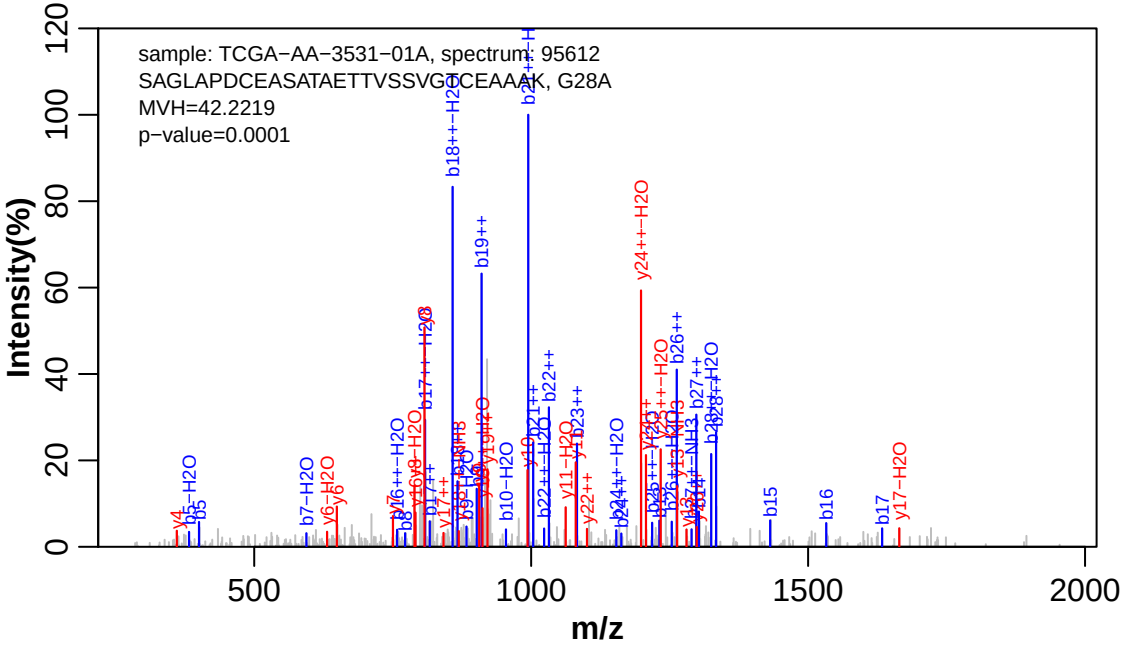

sample: TCGA−AA−3531−01A, spectrum: 136202
NDYATMLPDSTELNQDTLNR, D14N
MVH=63.5890
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y13
y14
y7
y8
y9
y11
b13
y15
y16

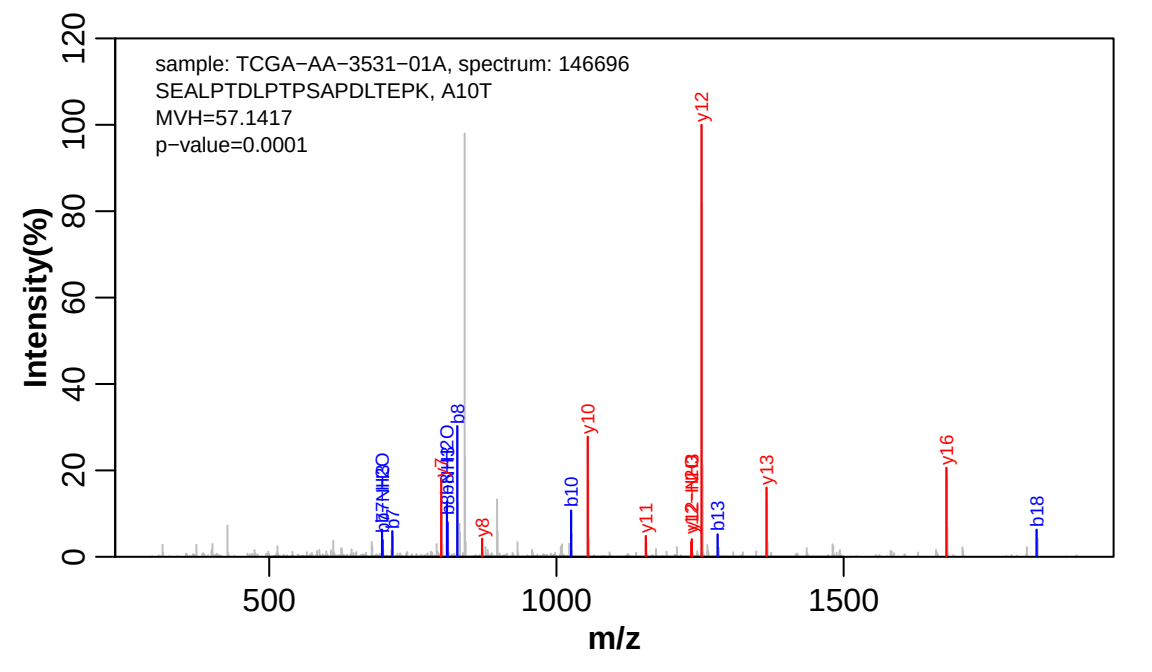

sample: TCGA−AA−3531−01A, spectrum: 57803
NPLLDLAAYDQEGR, R3L
MVH=55.1354
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4−NH3
b4
y4
b5
y5
b6−NH3
b6
b7−NH3
b7
y6
b8
y7
y8
b9−NH3
b9
y9
b10
y10
y11
b12

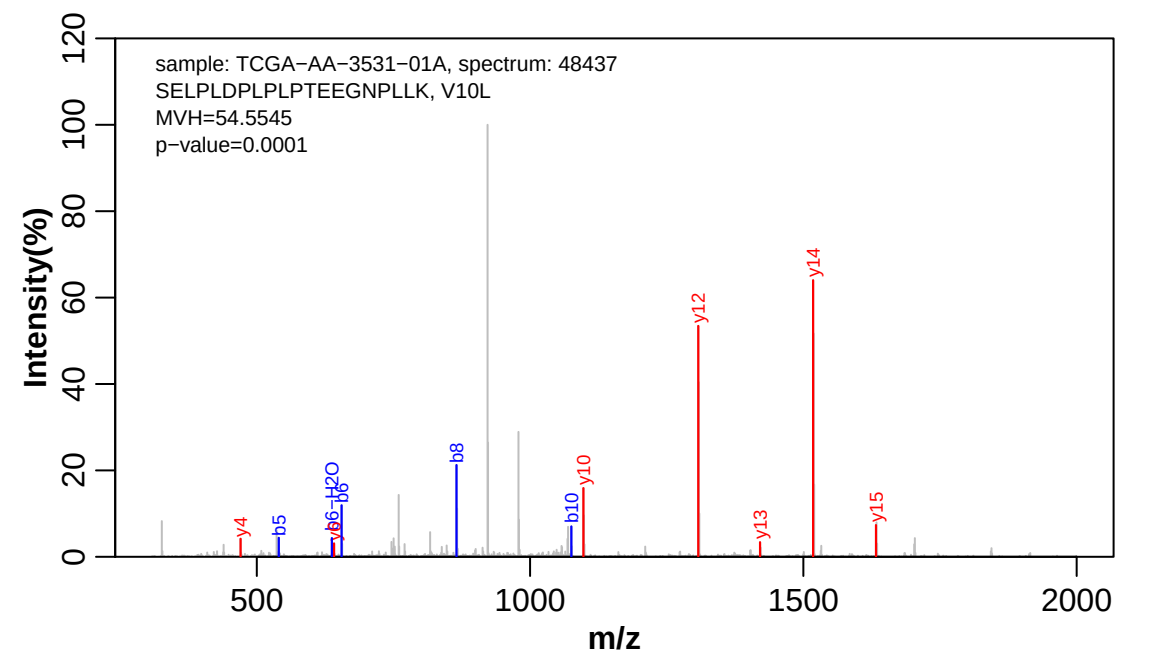

sample: TCGA−AA−3531−01A, spectrum: 52096
NSLSETVR, M3L
MVH=38.4978
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4
y4
y5
y6

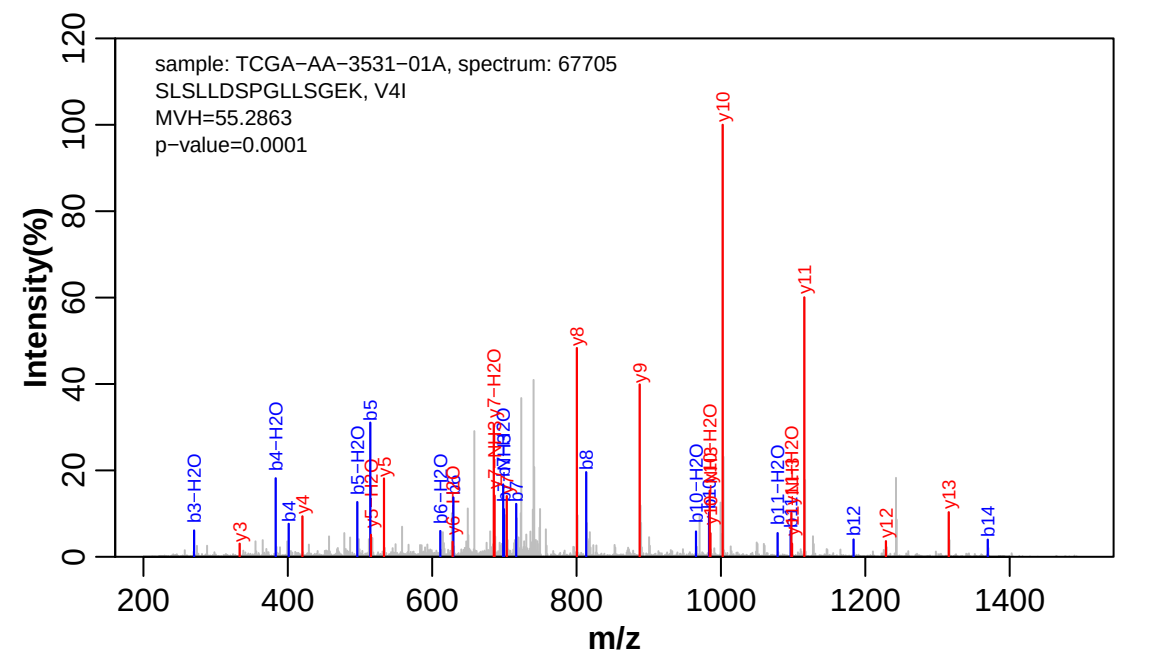

sample: TCGA−AA−3531−01A, spectrum: 20588
NSTLSEPGSGR, P4L
MVH=46.0209
p−value=0.0001
Intensity(%)
m/z
b2
b3−H2O
b3
y4−NH3
b4−NH3
b4
b4−H2O
y5
y5−NH3
b5−NH3
b5−H2O
b5
y6
b6−NH3
b6−H2O
b6
y7
y8
y9

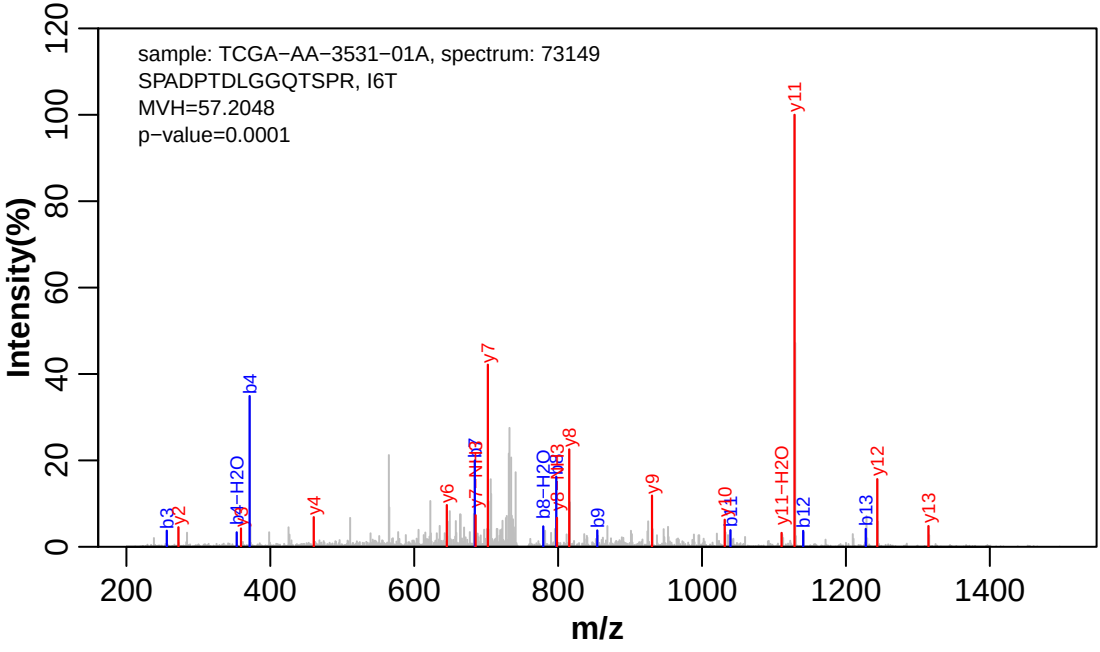

sample: TCGA−AA−3531−01A, spectrum: 84050
NTNSVPETAPAALPETR, K17R
MVH=45.4375
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
b12
y13
b13
y4
b5
0
20
40
60
80
100
120
500
1000
1500

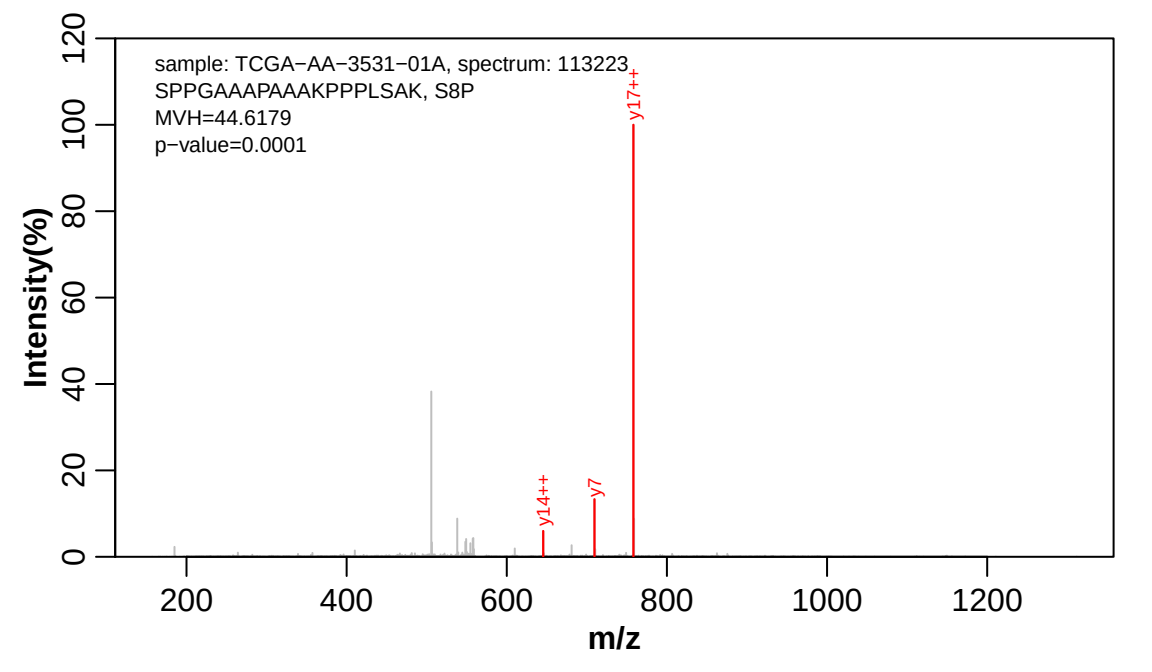

sample: TCGA−AA−3531−01A, spectrum: 95612
SAGLAPDCEASATAETTVSSVGDCEAAAK, G28A
MVH=42.2219
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2++−H
b18++−H2O
b19++
y24++−H2O
b26++
b28++−H2O
b15
b16
b17
y17−H2O
b7−H2O
y6−H2O
y4
b5
b5−H2O
b10−H2O
y22++
b24++−H2O
b22++−H2O
b22++
y23++
y11−H2O
b23++
b27++
y25++−H2O
y25++
y26++
y27++
y28++
y24++
y19++H2O
b17++−H2O
b17++
b16++−H2O
b16++
b8++−H2O
b8++
b7++−H2O
b7++
y10++
y21++
y10
y11
y19++
y19
y18++
y18
y17++
y17
y16++
y16
y15++
y15
y14++
y14
y13++
y13
y12++
y12
b6++
b6
b9++
b9
b10++
b10
b11++
b11
b12++
b12
b13++
b13
b14++
b14
b15++
b15
b16++
b16
b17++
b17
b18++
b18
b19++
b19
b20++
b20
b21++
b21
b22++
b22
b23++
b23
b24++
b24
b25++
b25
b26++
b26
b27++
b27
b28++
b28

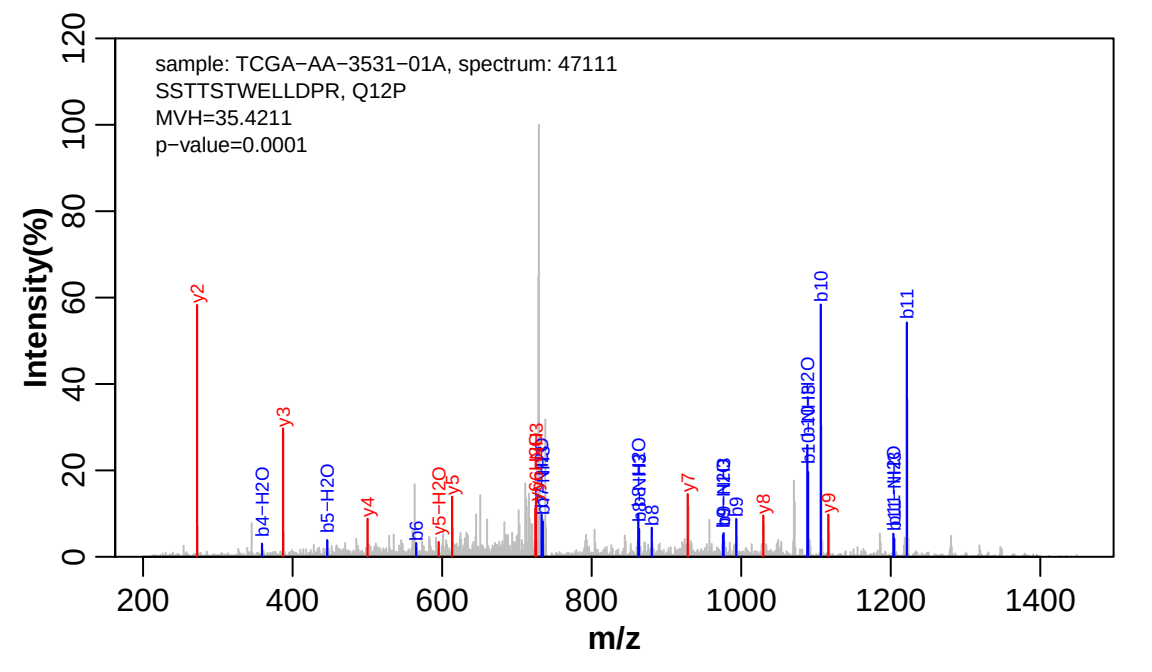

sample: TCGA−AA−3531−01A, spectrum: 146696
SEALPTDLPTPSAPDLTEPK, A10T
MVH=57.1417
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y10
b8
y8
b10
y11
b13
y13
y16
b18

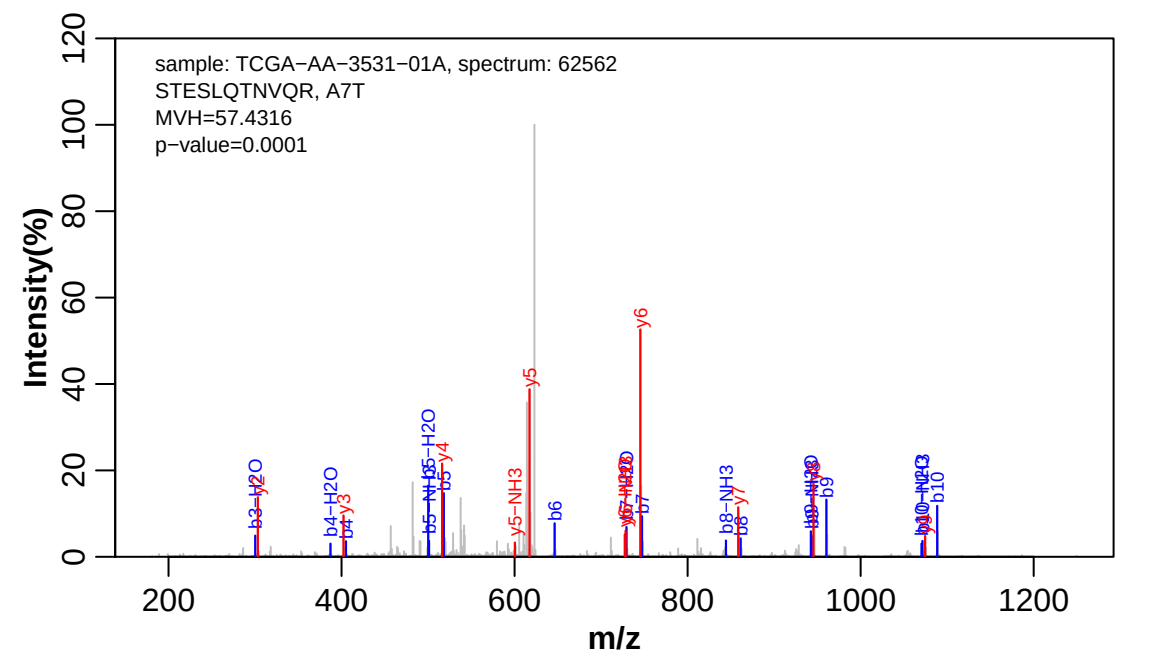

sample: TCGA−AA−3531−01A, spectrum: 48437
SELPLDPLPLPTEEGNPLLK, V10L
MVH=54.5545
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
y6−H2O
b6
b8
b10
y10
y12
y13
y14
y15

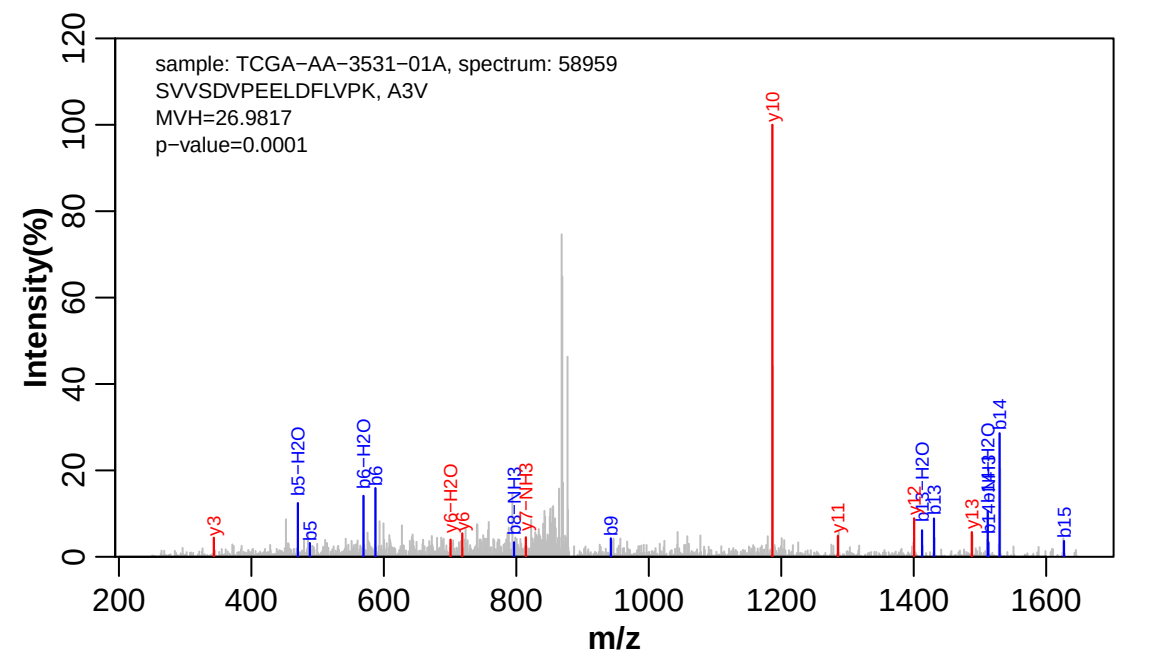

sample: TCGA−AA−3531−01A, spectrum: 67705
SLSLLDSPGLLSGEK, V4I
MVH=55.2863
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y8
y9
y13
b3−H2O
y3
b4−H2O
b4
y4
b5
b5−H2O
y5−H2O
y5
b6−H2O
b7−H2O
b8
b10−H2O
b11−H2O
b12
y12
b14

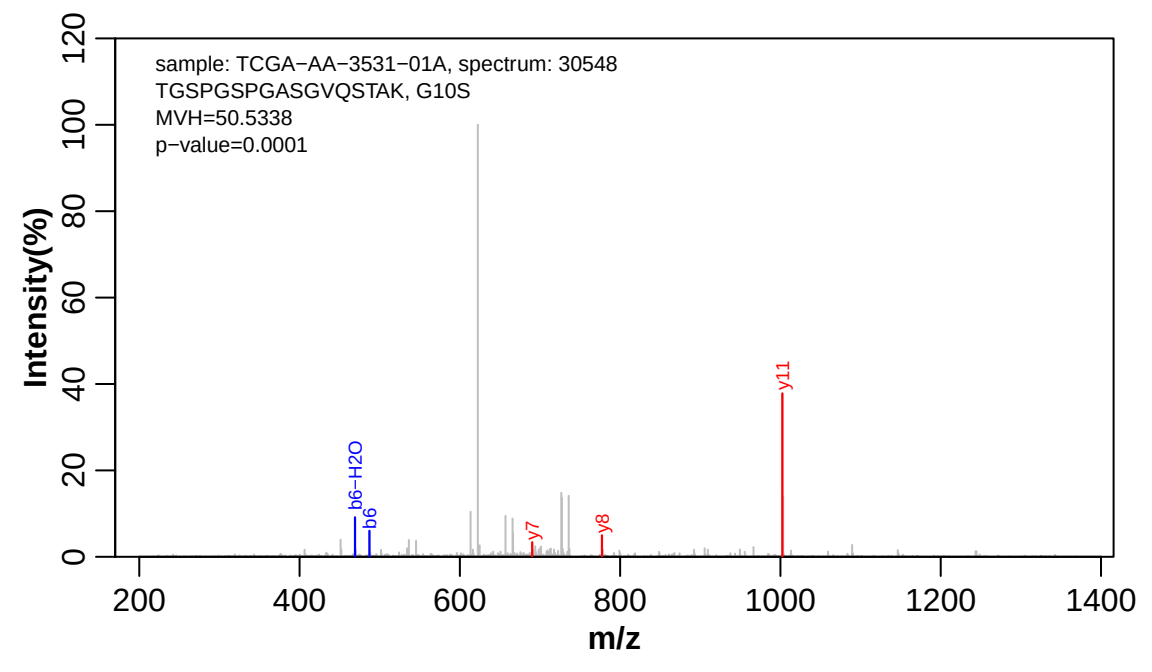

sample: TCGA−AA−3531−01A, spectrum: 73149
SPADPTDLGGQTSPR, I6T
MVH=57.2048
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4
b4−H2O
y4
y6
y7
y7−NH3
y7
b8−H2O
b8−NH3
y8
b9
y9
b10
y10
y11−H2O
y11
b12
b13
y12
y13

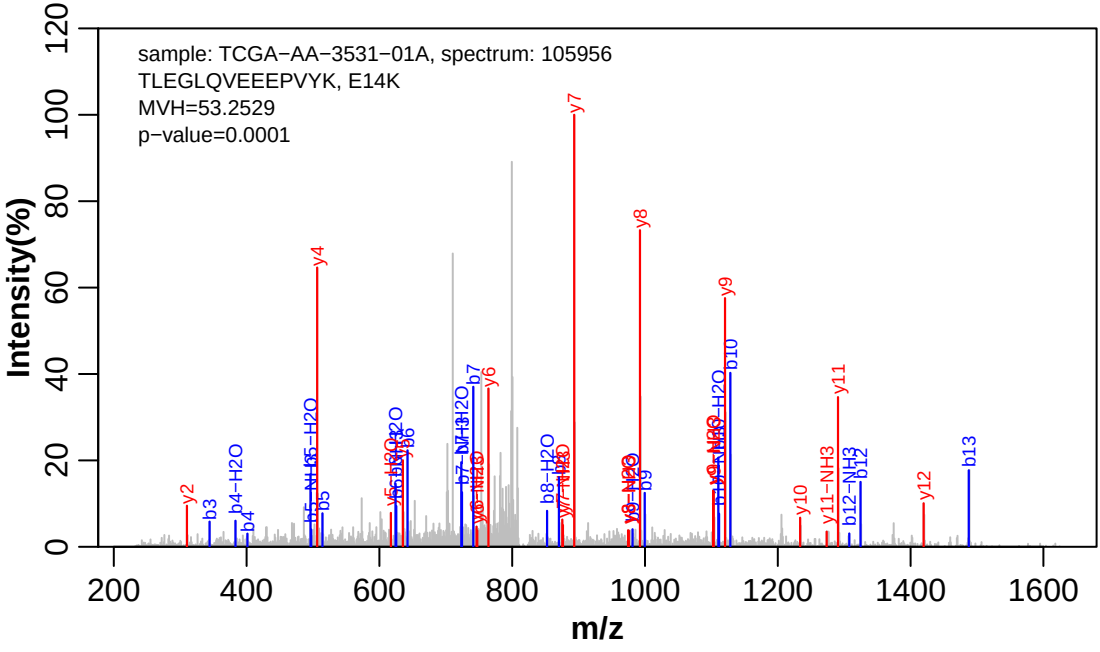

sample: TCGA−AA−3531−01A, spectrum: 113223
SPPGAAAPAAAKPPPLSAK, S8P
MVH=44.6179
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

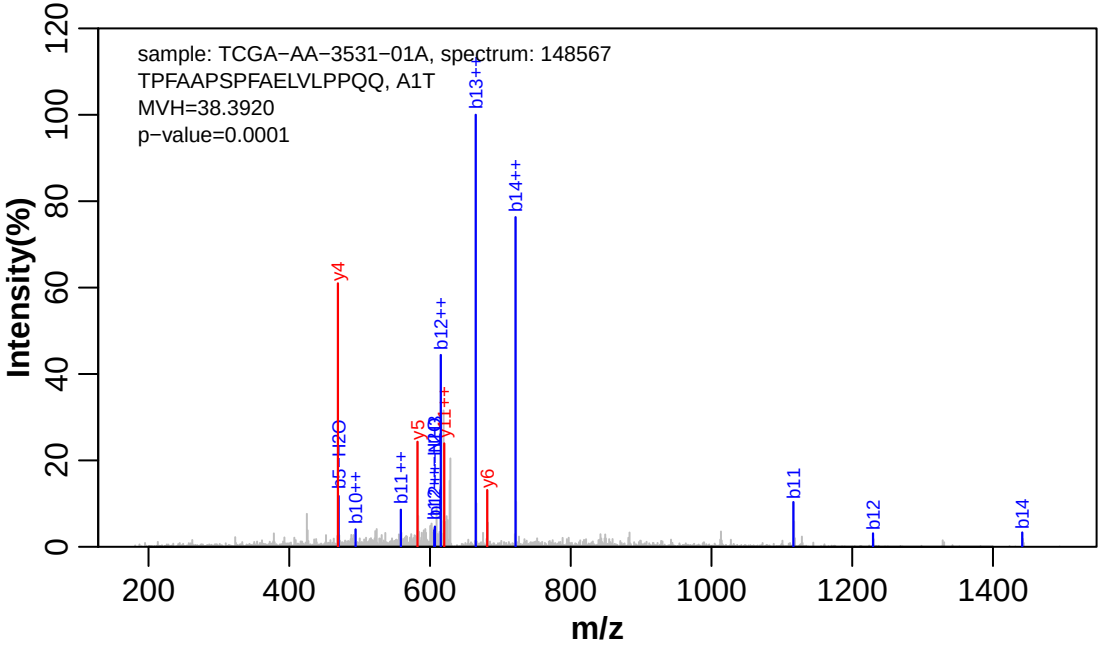

sample: TCGA−AA−3531−01A, spectrum: 47111
SSTTSTWELLDPR, Q12P
MVH=35.4211
p−value=0.0001
Intensity(%)
m/z
y2
y3
b4−H2O
b5−H2O
y4
b6
y5−H2O
y5
y7
b8
y8
b9
y9
b10
b11

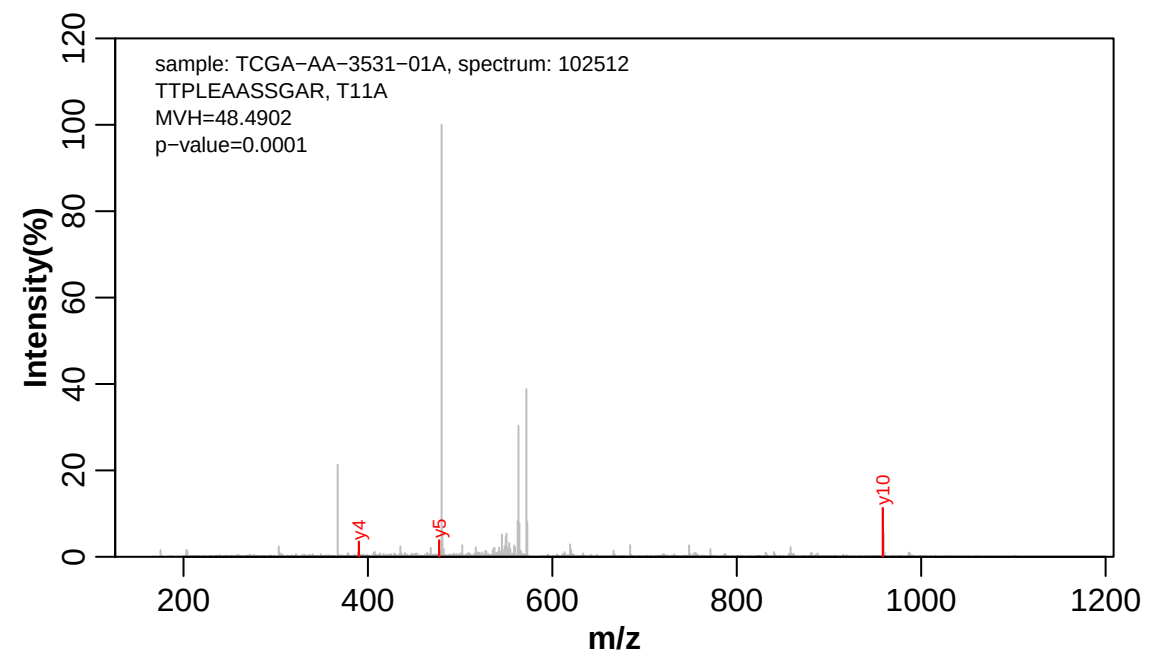

sample: TCGA−AA−3531−01A, spectrum: 62562
STESLQTNVQR, A7T
MVH=57.4316
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
b4−H2O
b4
y3
b5−NH3
b5−H2O
b5
y4
y5−NH3
y5
b6
y6
b7
b8−NH3
b8
y7
b9
b10
b10−NH3

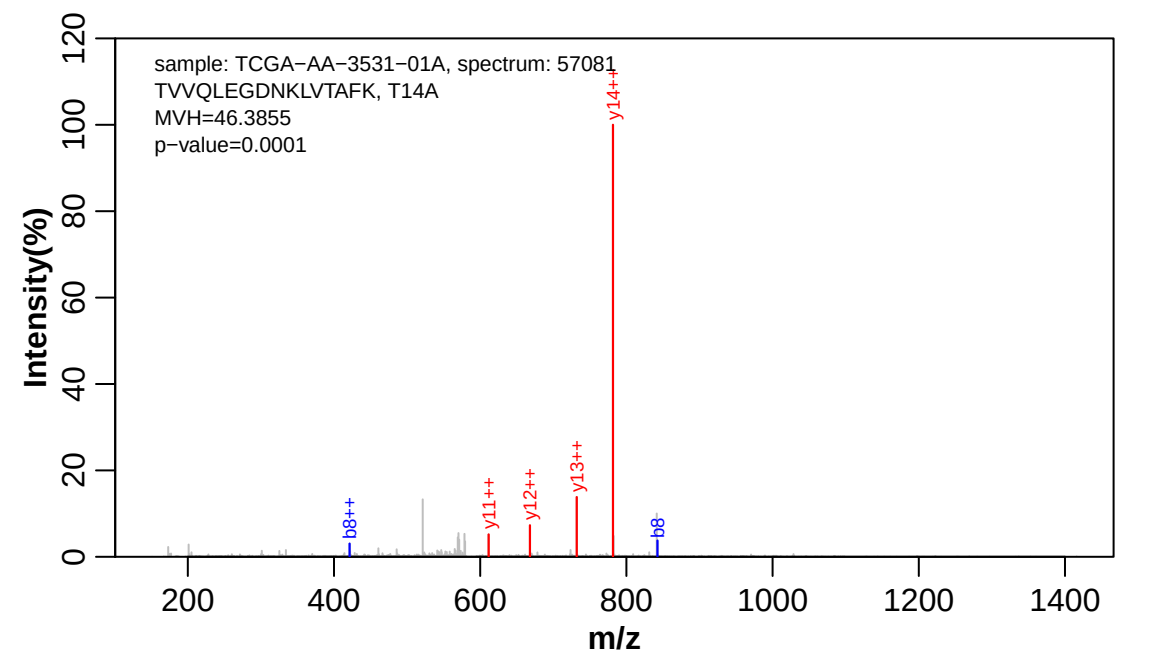

sample: TCGA−AA−3531−01A, spectrum: 58959
SVVSDVPEELDFLVPK, A3V
MVH=26.9817
p−value=0.0001
Intensity(%)
m/z
y3
b5−H2O
b5
b6−H2O
b6
y6−H2O
y6
b8−NH3
y7−NH3
b9
y10
y11
y12
b12−H2O
b13
y13
b14
b15

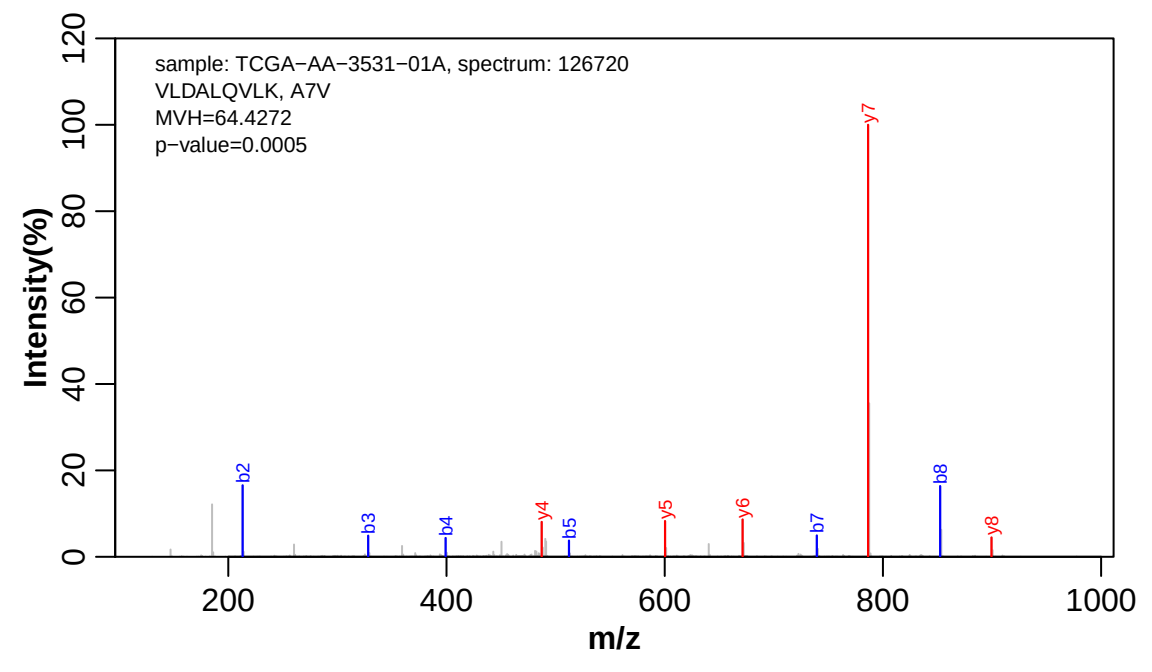

sample: TCGA−AA−3531−01A, spectrum: 30548
TGSPGSPGASGVQSTAK, G10S
MVH=50.5338
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b6−H2O
b6
y7
y8
y11

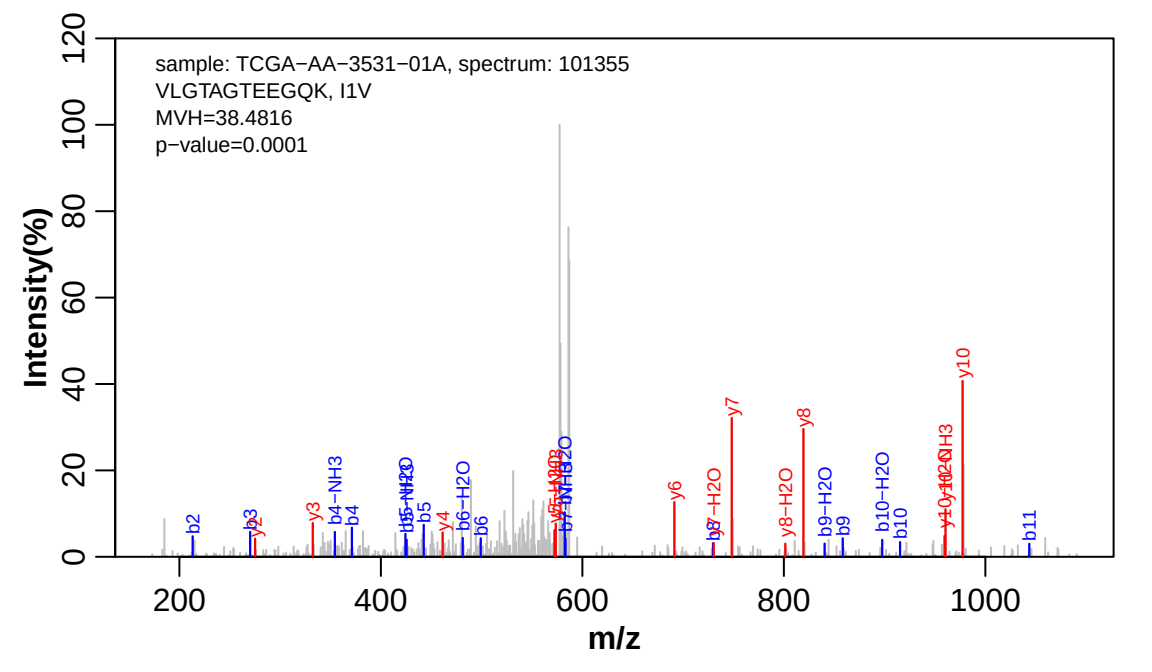

sample: TCGA−AA−3531−01A, spectrum: 105956
TLEGLQVEEEPVYK, E14K
MVH=53.2529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−H2O
y6
b7−NH3
b7−H2O
b7
y6
b8−H2O
y7
y8
b9
y9
b10
y10
y11−NH3
y11
b12−NH3
b12
y12
b13

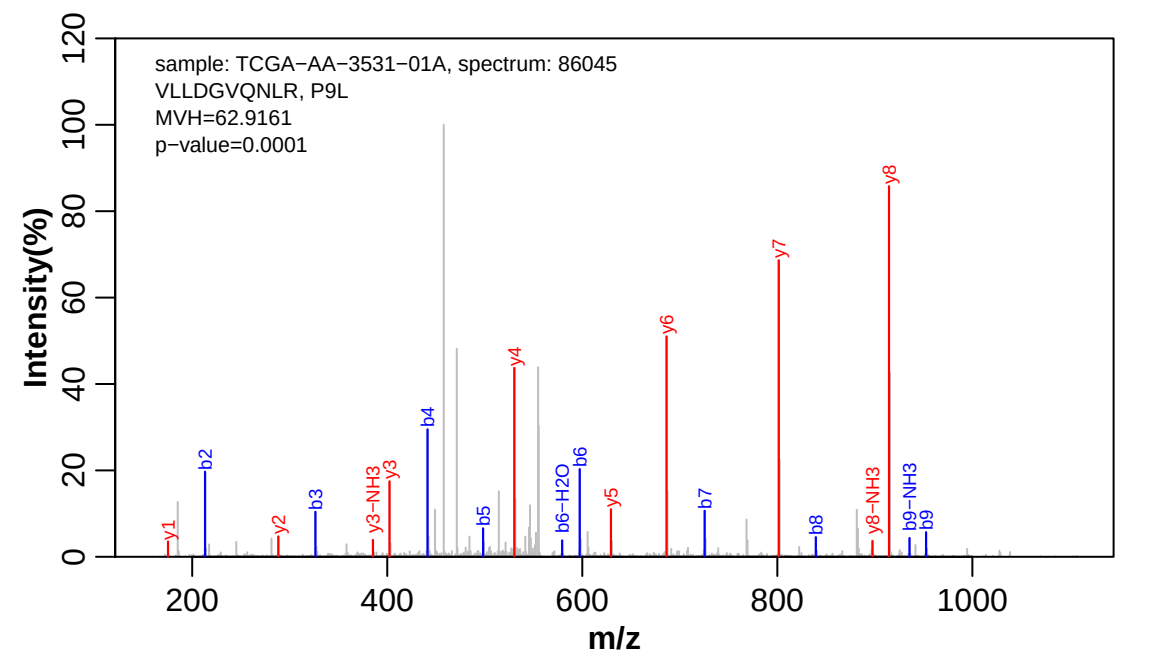

sample: TCGA−AA−3531−01A, spectrum: 148567
TPFAAPSPFAELVLPPQQ, A1T
MVH=38.3920
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b13++
b14++
b12++
y5
b5−H2O
b10++
b11++
y6
b11
b12
b14

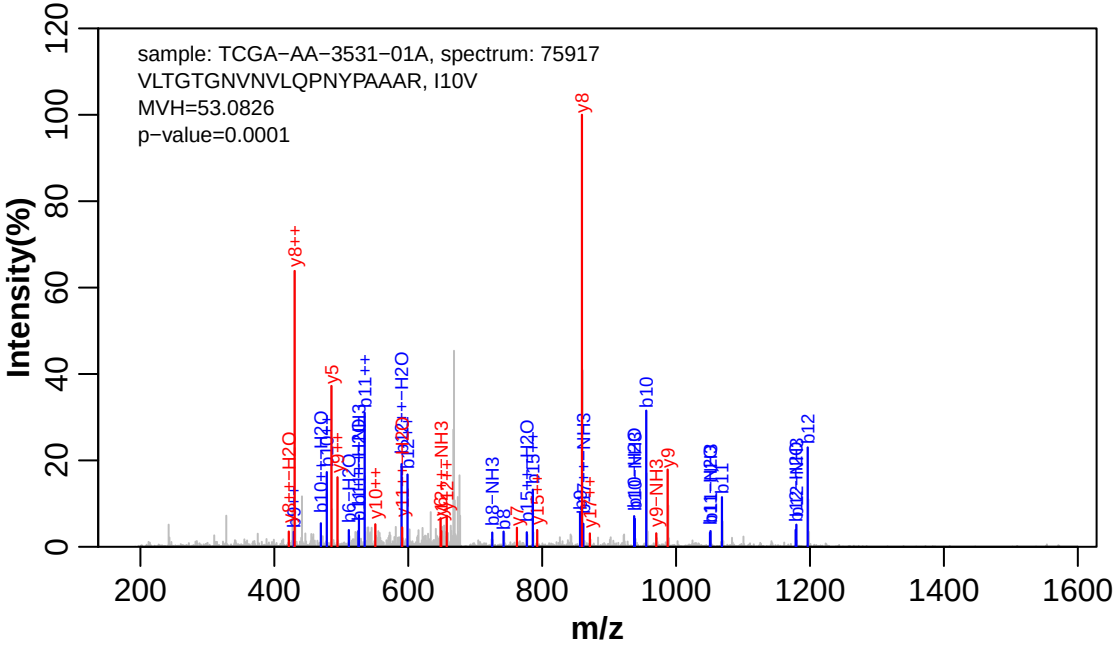

sample: TCGA−AA−3531−01A, spectrum: 102512
TTPLEAASSGAR, T11A
MVH=48.4902
p−value=0.0001
y4
y5
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

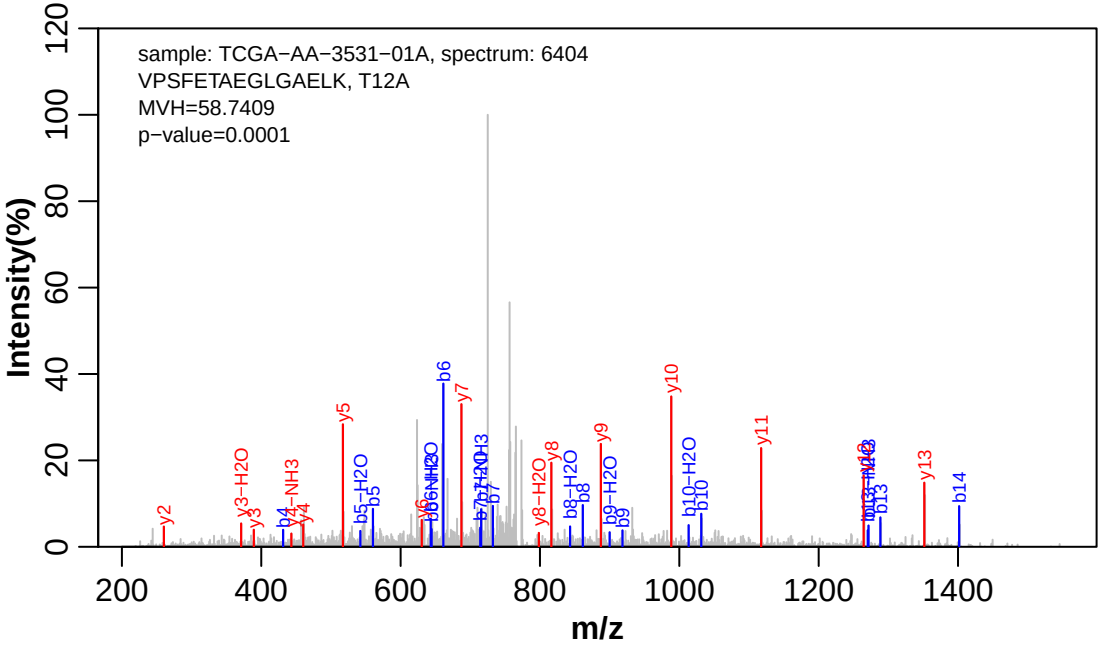

sample: TCGA−AA−3531−01A, spectrum: 57081
TVVQLEGDNKLVTAFK, T14A
MVH=46.3855
p−value=0.0001
y14++
y13++
y12++
y11++
b8++
b8
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

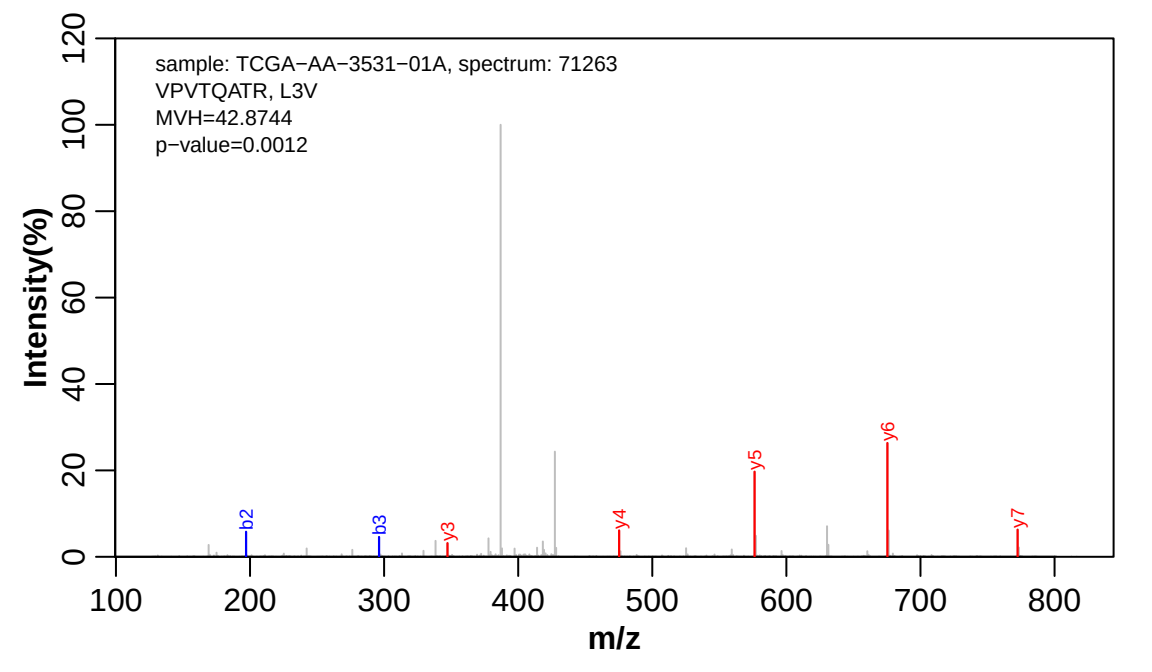

sample: TCGA−AA−3531−01A, spectrum: 126720
VLDALQVLK, A7V
MVH=64.4272
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
y4
b5
y5
y6
b7
y7
b8
y8

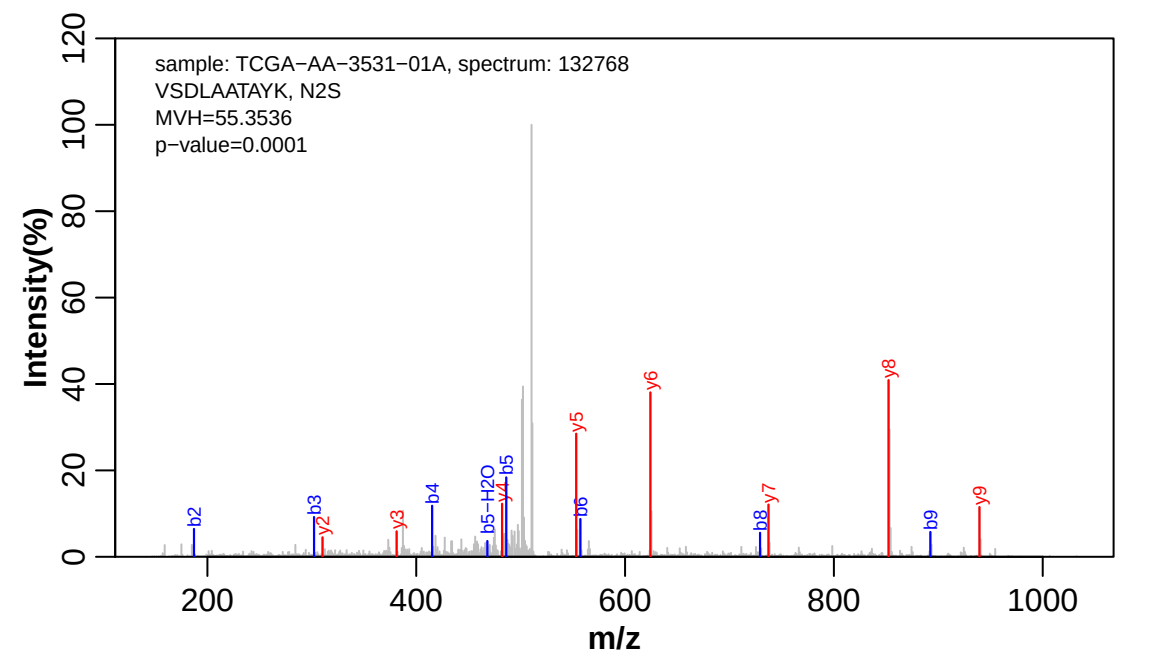

sample: TCGA−AA−3531−01A, spectrum: 101355
VLGTAGTEEGQK, I1V
MVH=38.4816
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
b3
y3
b4−NH3
b4
b5−NH3
b5−H2O
b5
y4
b6−H2O
b6
y6
b7−H2O
y7
y8−H2O
y8
b9−H2O
b9
b10−H2O
b10
y10
b11

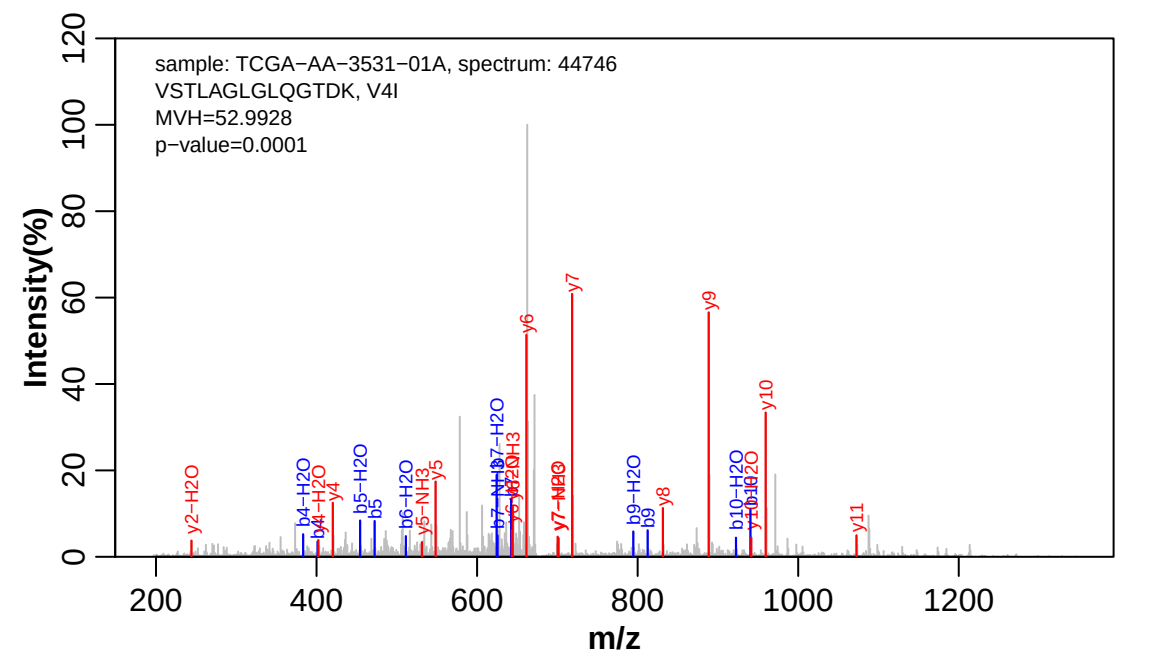

sample: TCGA−AA−3531−01A, spectrum: 86045
VLLDGVQNLR, P9L
MVH=62.9161
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
y7
b8
y8−NH3
y8
b9−NH3
b9

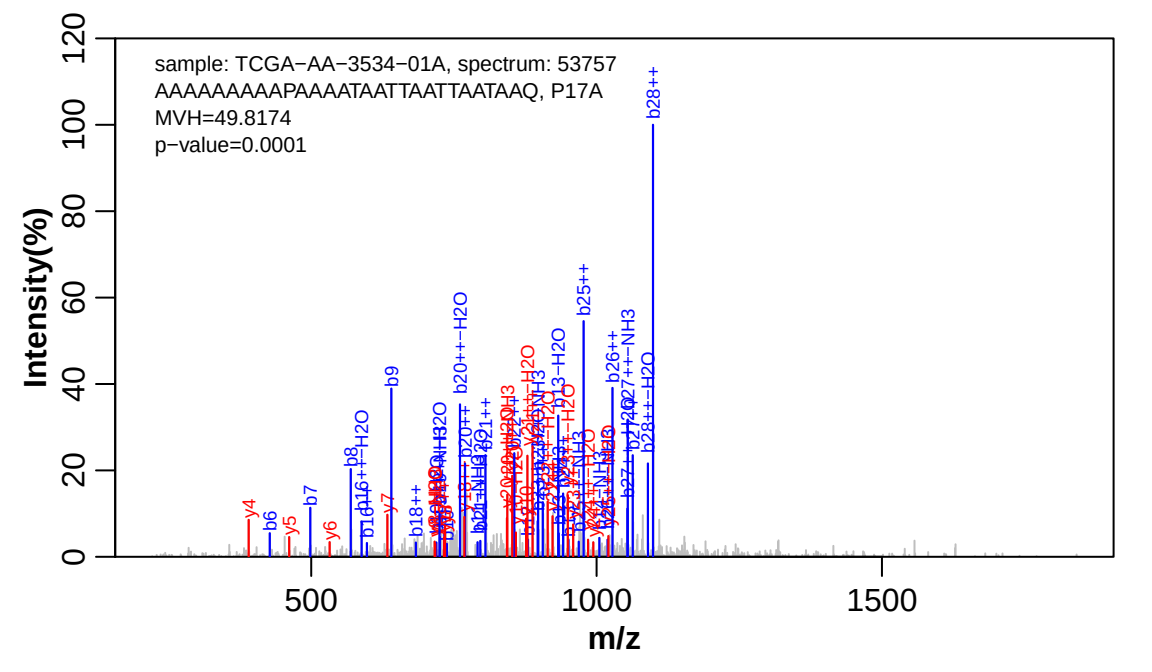

sample: TCGA−AA−3531−01A, spectrum: 75917
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=53.0826
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y8++
y5
y10++
b11++
b8−NH3
y9
y9−NH3
b10
b12

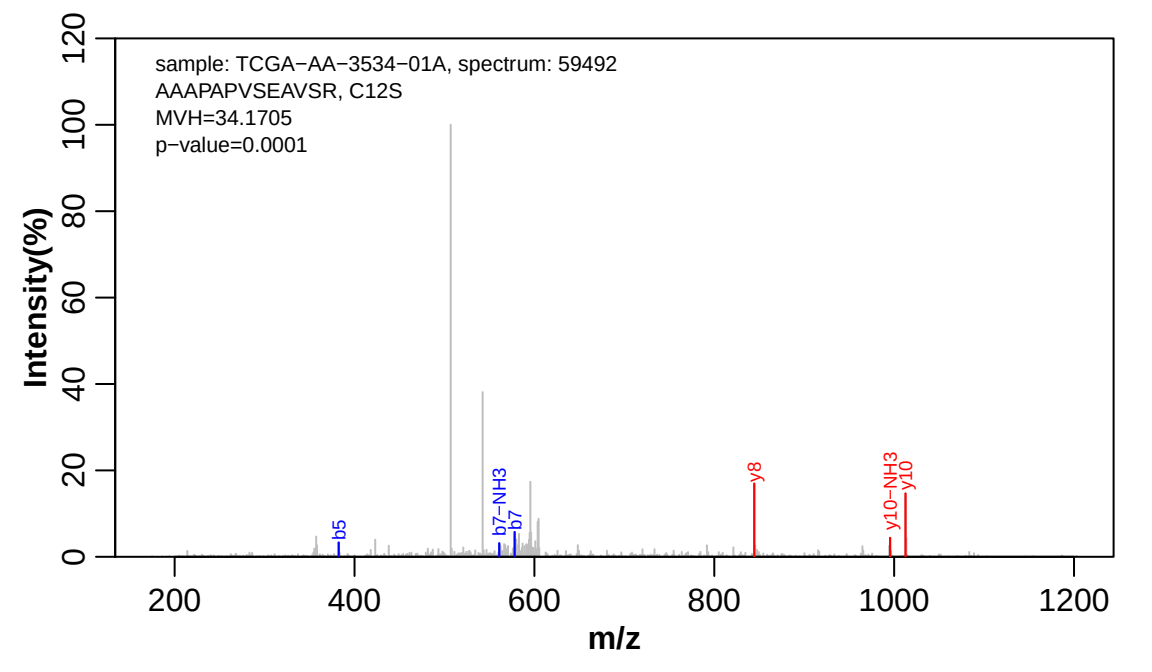

sample: TCGA−AA−3531−01A, spectrum: 6404
VPSFETAEGLGAELK, T12A
MVH=58.7409
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
y3−H2O
b4
b4−NH3
y4
y5
b5
b5−H2O
b6
y6
b6−NH3
b6−H2O
y7
b7
b7−H2O
b7−NH3
y8
y8−H2O
b8
b8−H2O
y9
b9
b9−H2O
y10
b10
b10−H2O
y11
b13
b13−H2O
b13−NH3
y13
b14

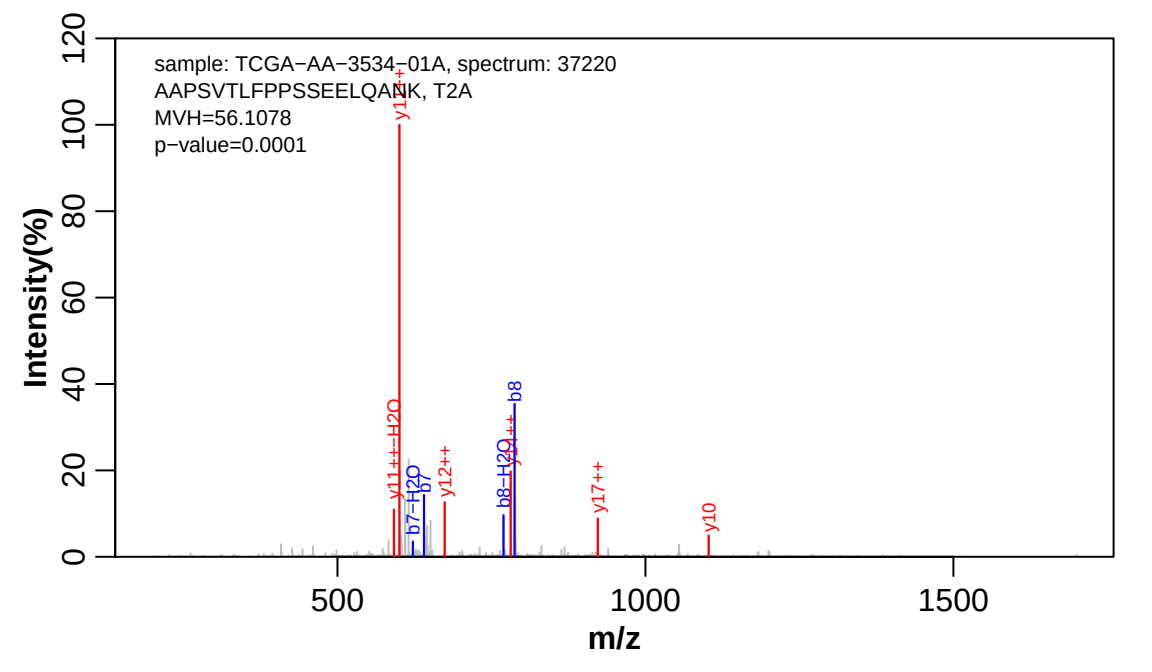

sample: TCGA−AA−3531−01A, spectrum: 71263
VPVTQATR, L3V
MVH=42.8744
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
y6
y7

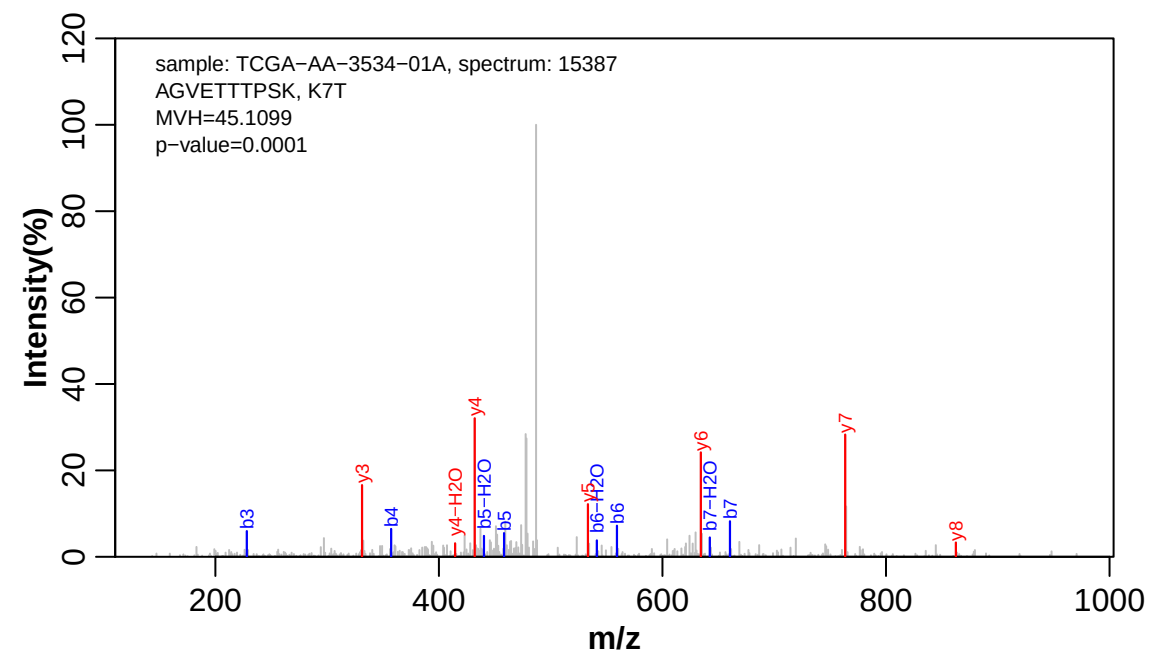

sample: TCGA−AA−3531−01A, spectrum: 132768
VSDLAATAYK, N2S
MVH=55.3536
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y2
y3
b4
b5−H2O
y4
b5
y5
b6
y6
b8
y7
y8
b9
y9

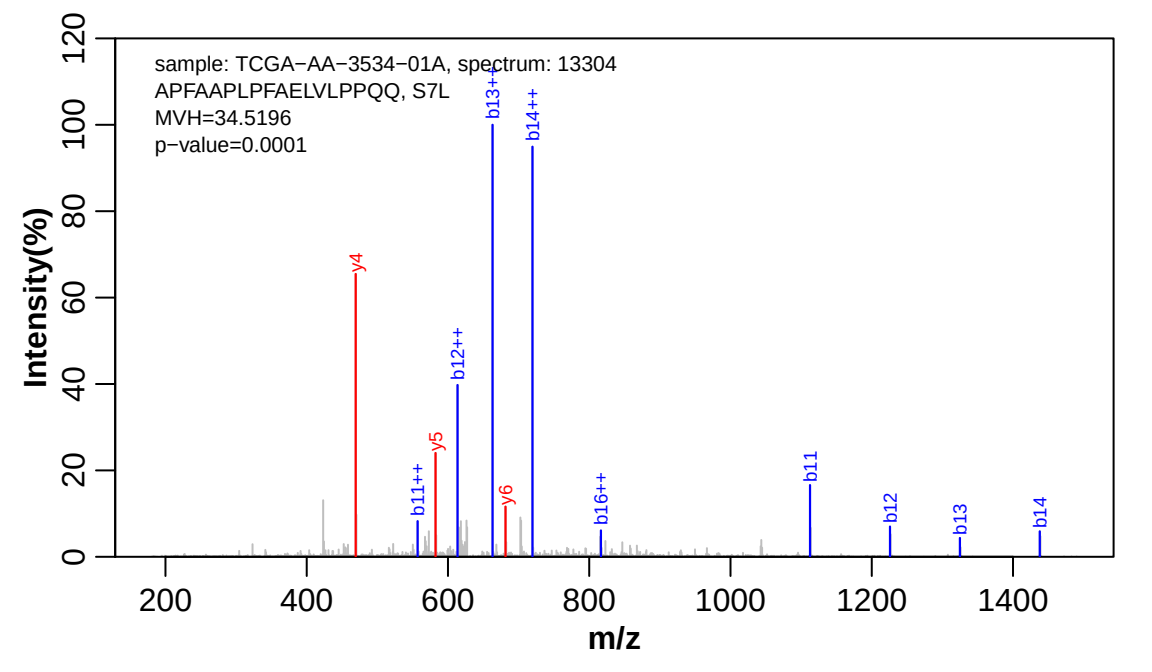

sample: TCGA−AA−3531−01A, spectrum: 44746
VSTLAGLGLQGTDK, V4I
MVH=52.9928
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2−H2O
b4−H2O
b4−H2O
y4
b5−H2O
b5
b6−H2O
y5−NH3
y5
b7−NH3
b7−H2O
y6−H2O
y6−NH3
y6
y7
y7−H2O
y7−NH3
b9−H2O
b9
y8
y9
b10−H2O
y10−H2O
y10−NH3
y10
y11

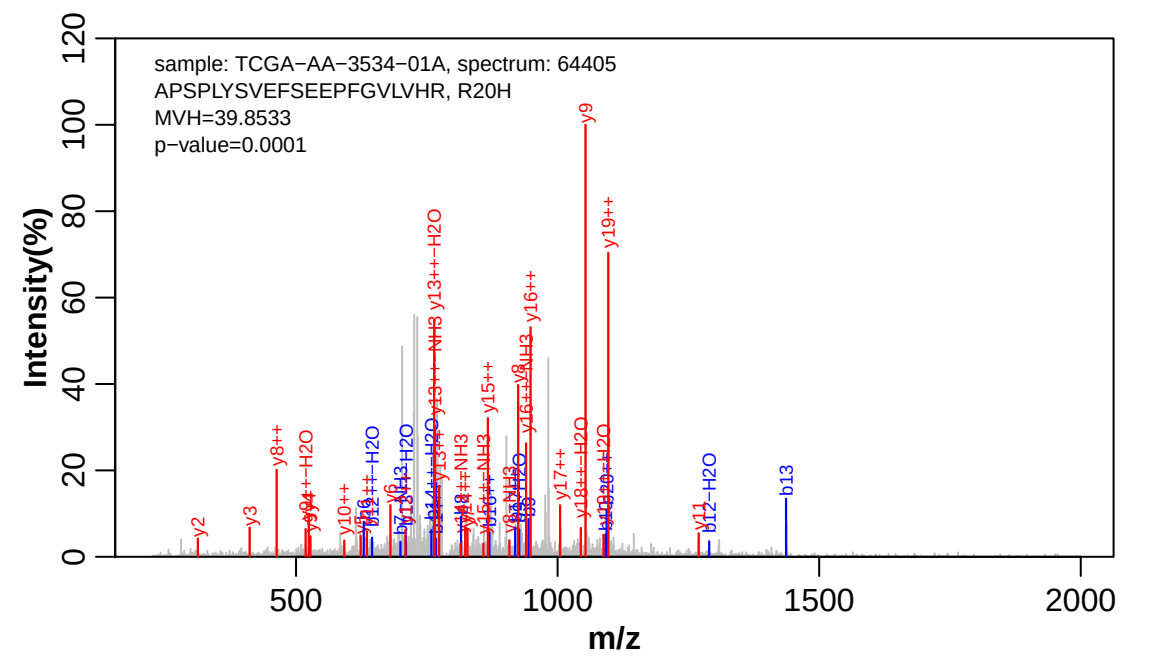

sample: TCGA−AA−3534−01A, spectrum: 53757
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=49.8174
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b20++−H2O
b9
b8
b7
y7
y6
y5
y4
b18++
b16++−H2O

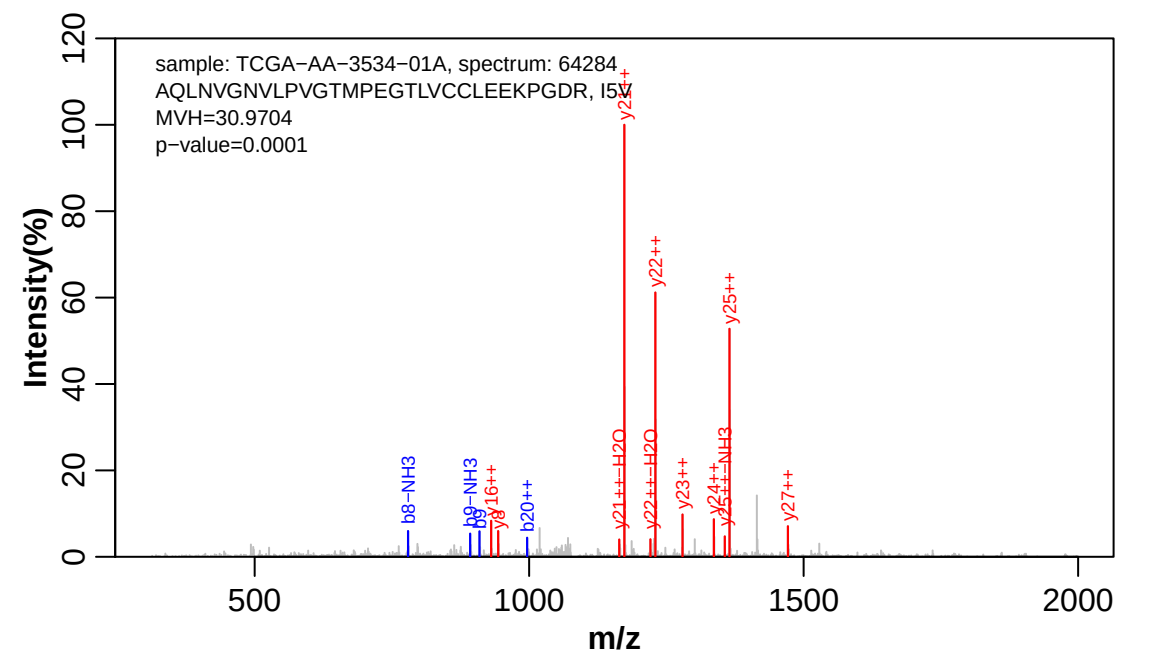

sample: TCGA−AA−3534−01A, spectrum: 59492
AAAPAPVSEAVSR, C12S
MVH=34.1705
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7−NH3
b7
y8
y10−NH3
y10

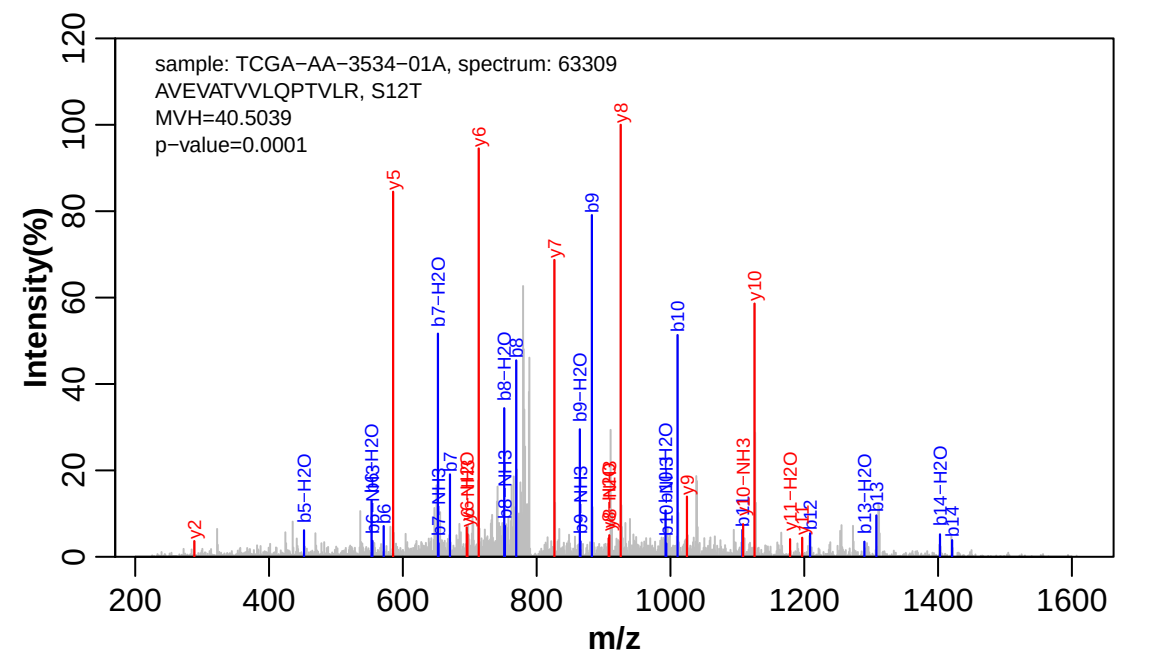

sample: TCGA−AA−3534−01A, spectrum: 37220
AAPSVTLFPPSSEELQANK, T2A
MVH=56.1078
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11++
y11++−H2O
b7−H2O
b7
y12++
b8−H2O
y9++
b8
y17++
y10

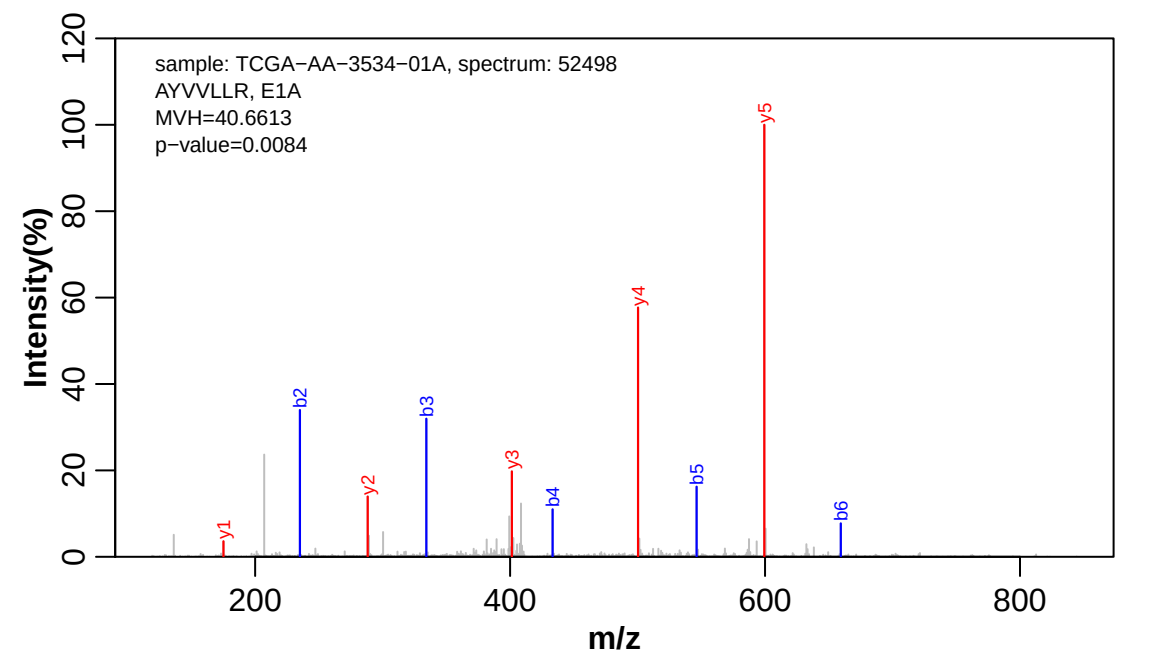

sample: TCGA−AA−3534−01A, spectrum: 15387
AGVETTTPSK, K7T
MVH=45.1099
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

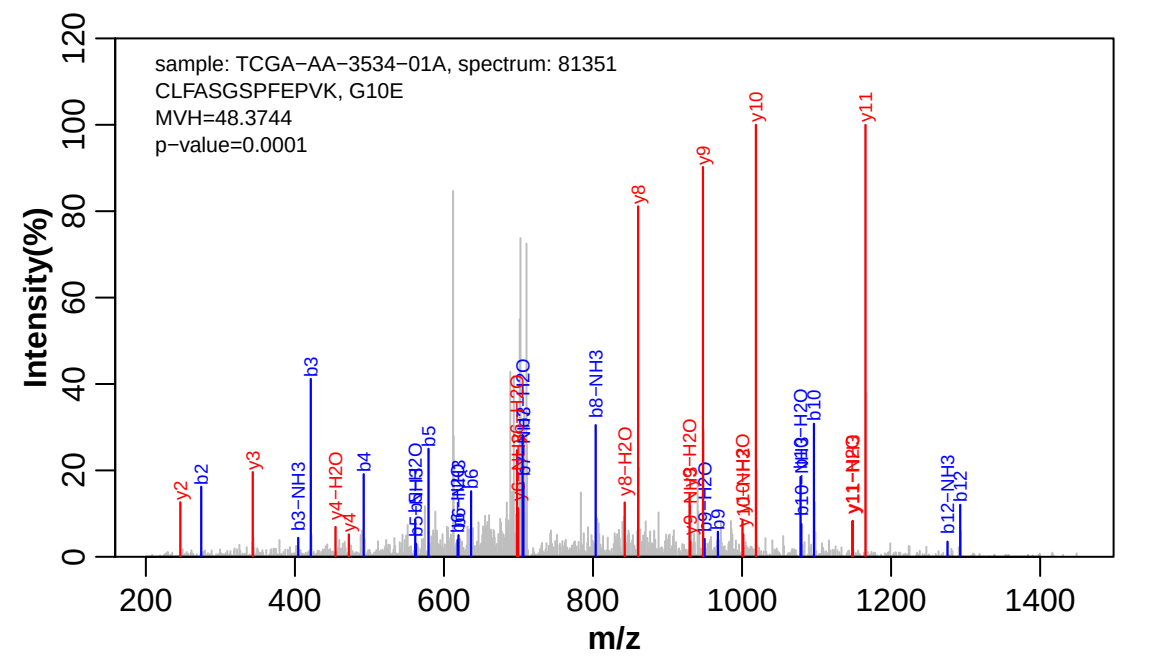

sample: TCGA−AA−3534−01A, spectrum: 13304
APFAAPLPFAELVLPPQQ, S7L
MVH=34.5196
p−value=0.0001
Intensity(%)
m/z
y4
b13++
b14++
b12++
y5
b11++
y6
b16++
b11
b12
b13
b14

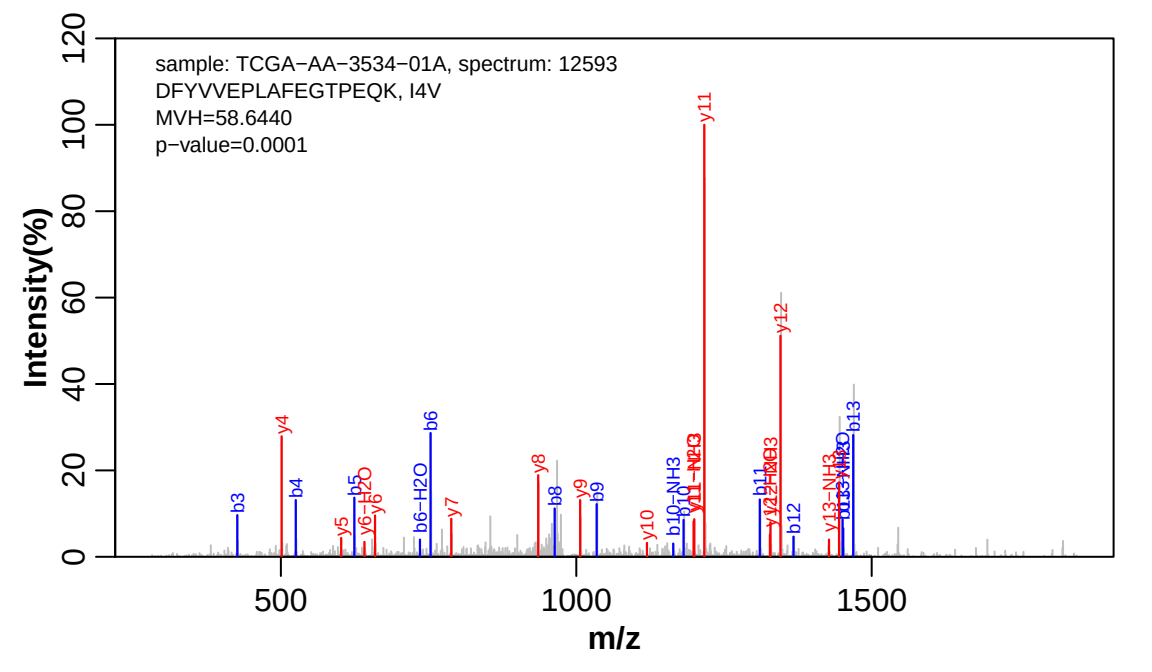

sample: TCGA−AA−3534−01A, spectrum: 64405
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=39.8533
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y8++
y8++−H2O
y10++
y13++−H2O
y6
y18++−NH3−H2O
y13++−H2O
y13++−NH3
y13++−NH3−H2O
y15++
y16++−NH3
y16++
y17++
y18++−H2O
y9
y19++
y11
b12−H2O
b13

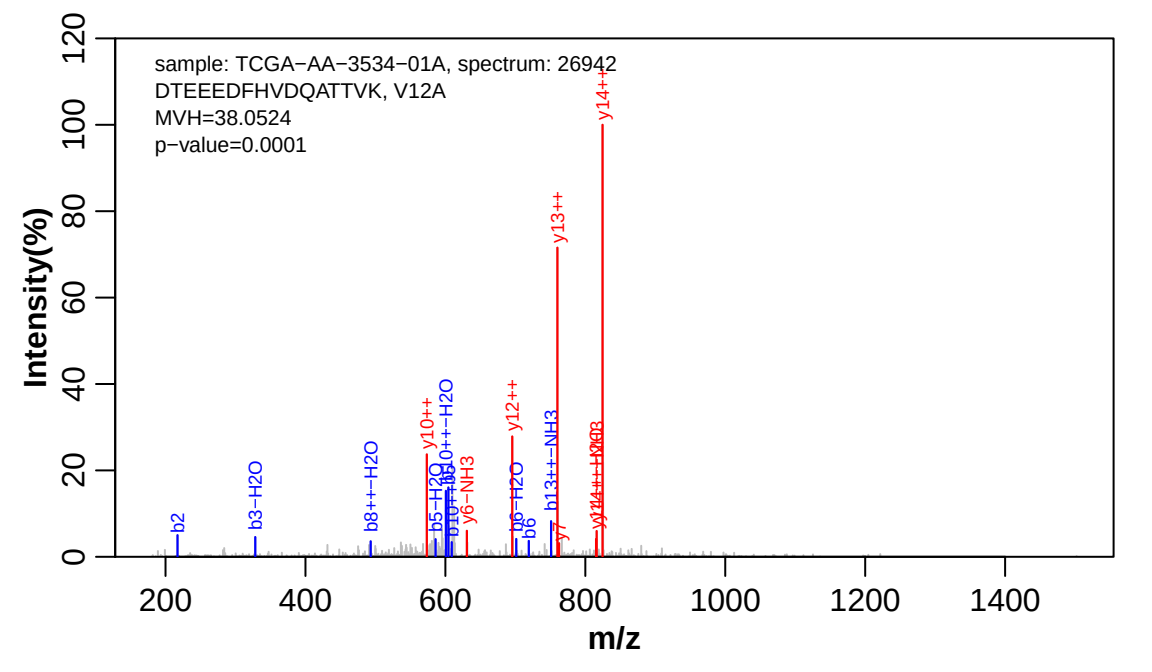

sample: TCGA−AA−3534−01A, spectrum: 64284
AQLNVGNVLPVGTMPEGTLVCCLEEKPGDR, I5V
MVH=30.9704
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b8−NH3
b9−NH3
b9
y16++
b20++
y21++−H2O
y21++
y22++−H2O
y22++
y23++
y24++
y25++−NH3
y25++
y27++

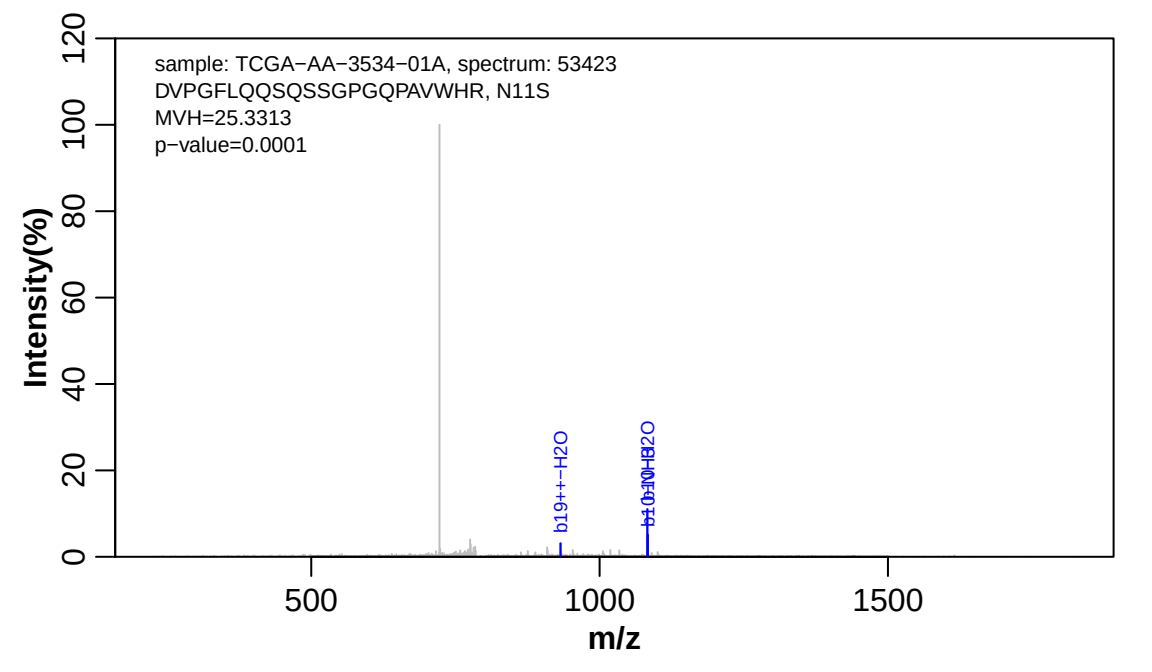

sample: TCGA−AA−3534−01A, spectrum: 63309
AVEVATVVLQPTVLR, S12T
MVH=40.5039
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5−H2O
y5
b6−H2O
b6
b7−NH3
b7
b7−H2O
y6
b8−H2O
b8
b8−NH3
y7
b9
b9−NH3
b9−H2O
y8
b10
b10−H2O
y9
y10
b11−NH3
y11−H2O
b12
b13−H2O
b13
b14−H2O
b14

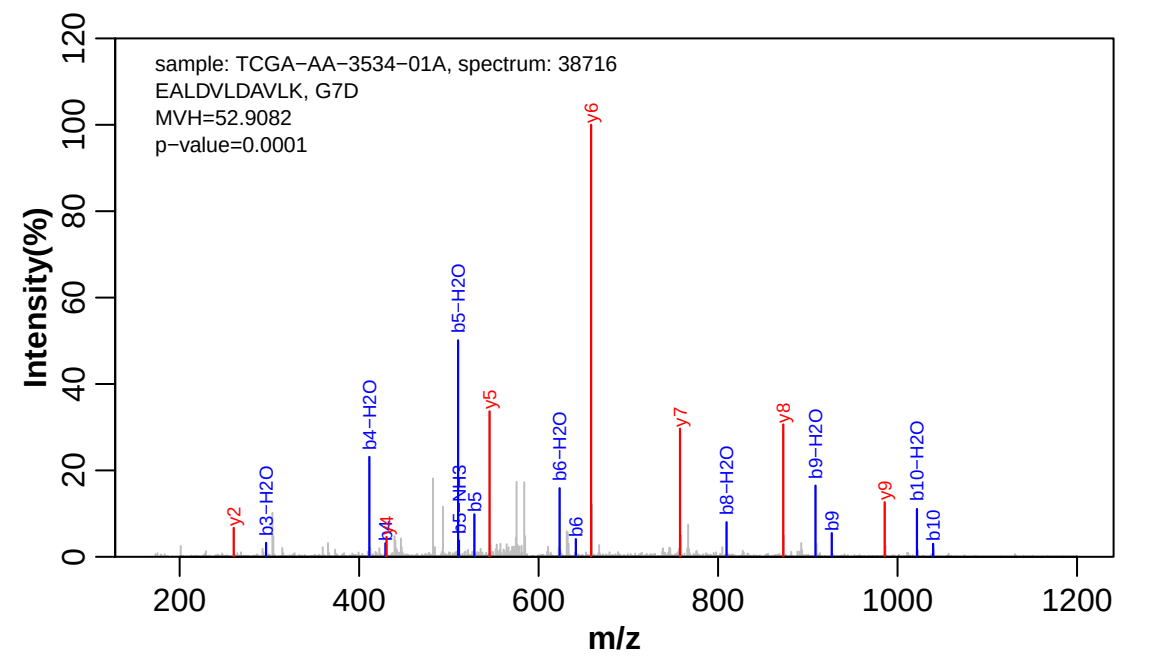

sample: TCGA−AA−3534−01A, spectrum: 52498
AYVVLLR, E1A
MVH=40.6613
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

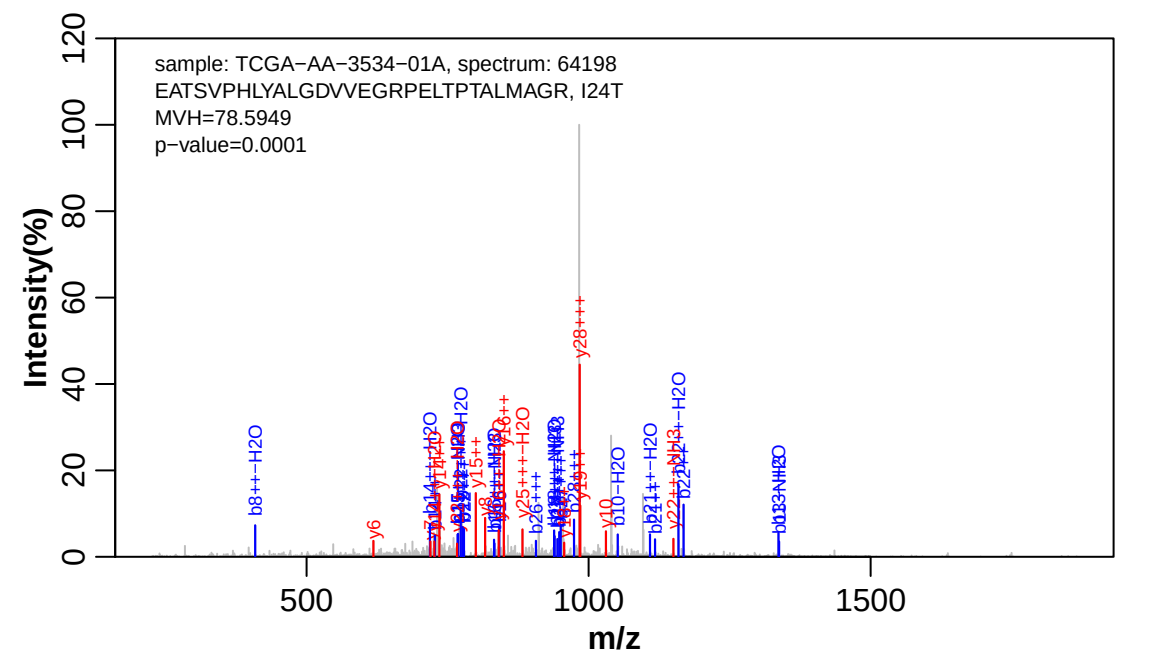

sample: TCGA−AA−3534−01A, spectrum: 81351
CLFASGSPFEPVK, G10E
MVH=48.3744
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b2
y3
b3−NH3
b3
y4−H2O
y4
b4
b5−NH3
b5−H2O
b5
b6
y8−H2O
b8−NH3
y8
y9−NH3−H2O
y9−H2O
y9
b9
y10−NH3
y10
b10−NH3−H2O
b10
y11−NH3
y11
b12−NH3
b12

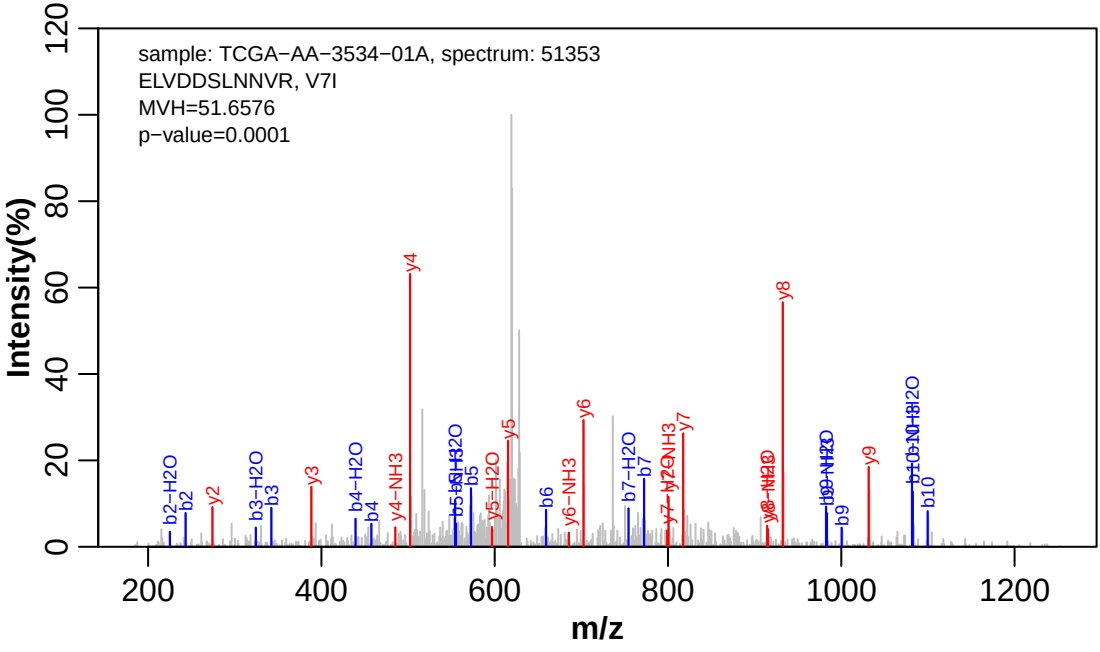

sample: TCGA−AA−3534−01A, spectrum: 12593
DFYVVEPLAFEGTPEQK, I4V
MVH=58.6440
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
y6−H2O
y6
b5
b6
b6−H2O
y7
y8
b8
y9
b9
y10
b10−NH3
b10
y11−NH3
y11
y11−H2O
y12−NH3
y12
b11
y12−H2O
b12
y13−NH3
y13
b13

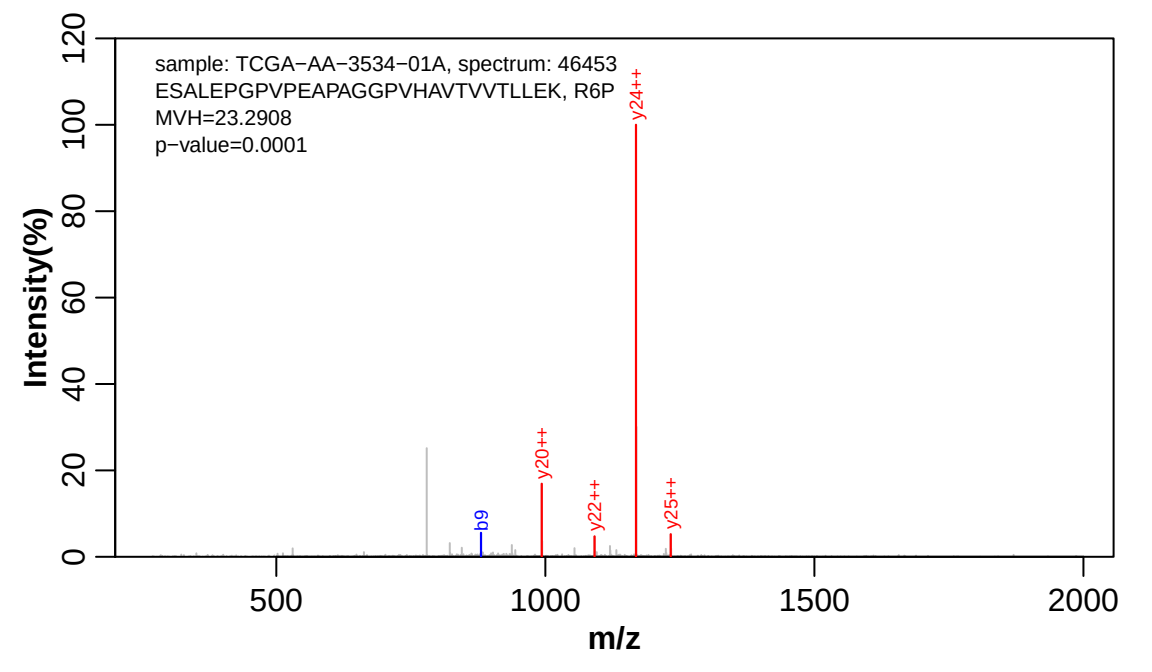

sample: TCGA−AA−3534−01A, spectrum: 26942
DTEEEDFHVDQATTVK, V12A
MVH=38.0524
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b8++−H2O
y10++
b5−H2O
b10++−H2O
y6−NH3
y12++
b6−H2O
b6
b13++−NH3
y7
y13++
y14++

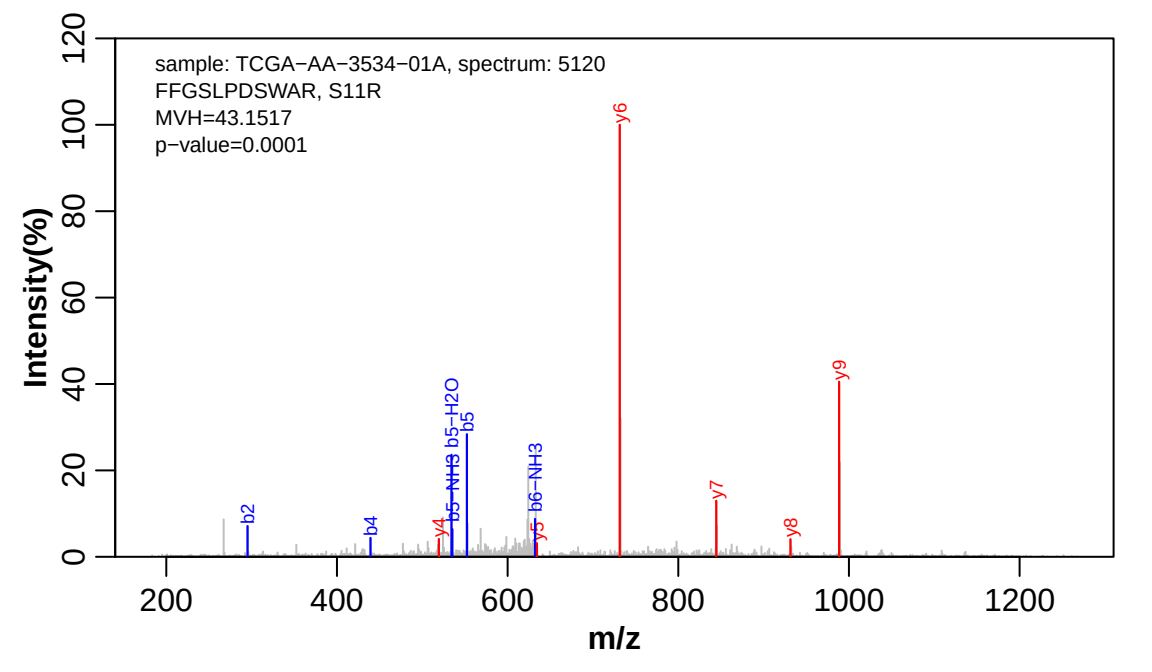

sample: TCGA−AA−3534−01A, spectrum: 53423
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=25.3313
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b19++−H2O
b10++−H2O
b10++

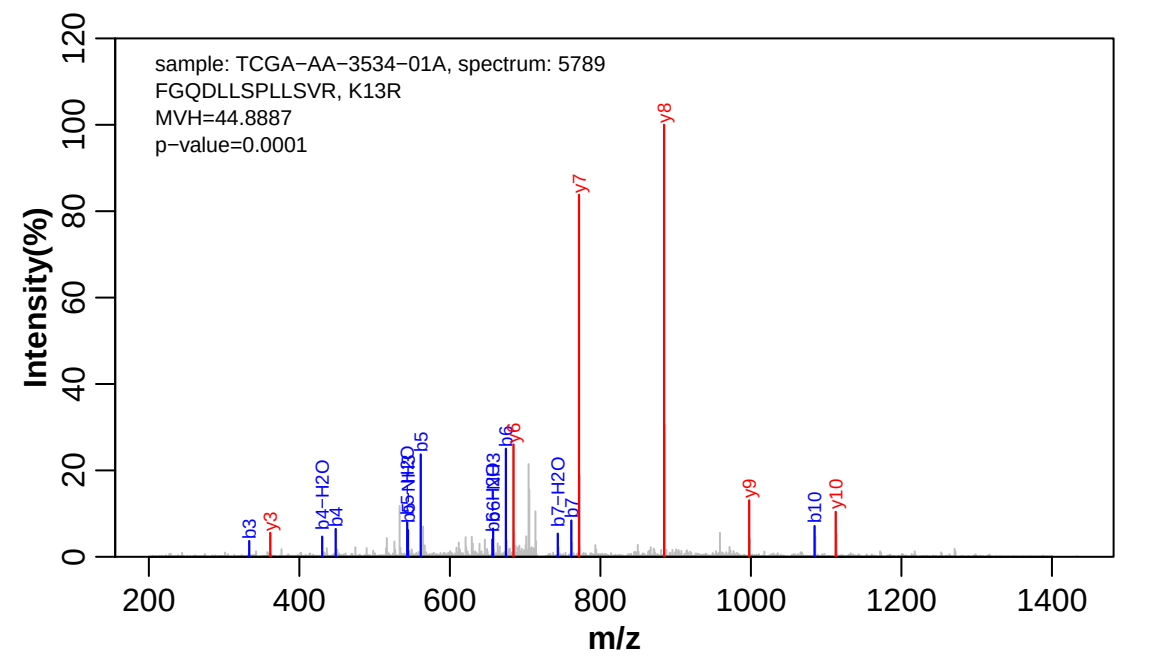

sample: TCGA−AA−3534−01A, spectrum: 38716
EALDVLDAVLK, G7D
MVH=52.9082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

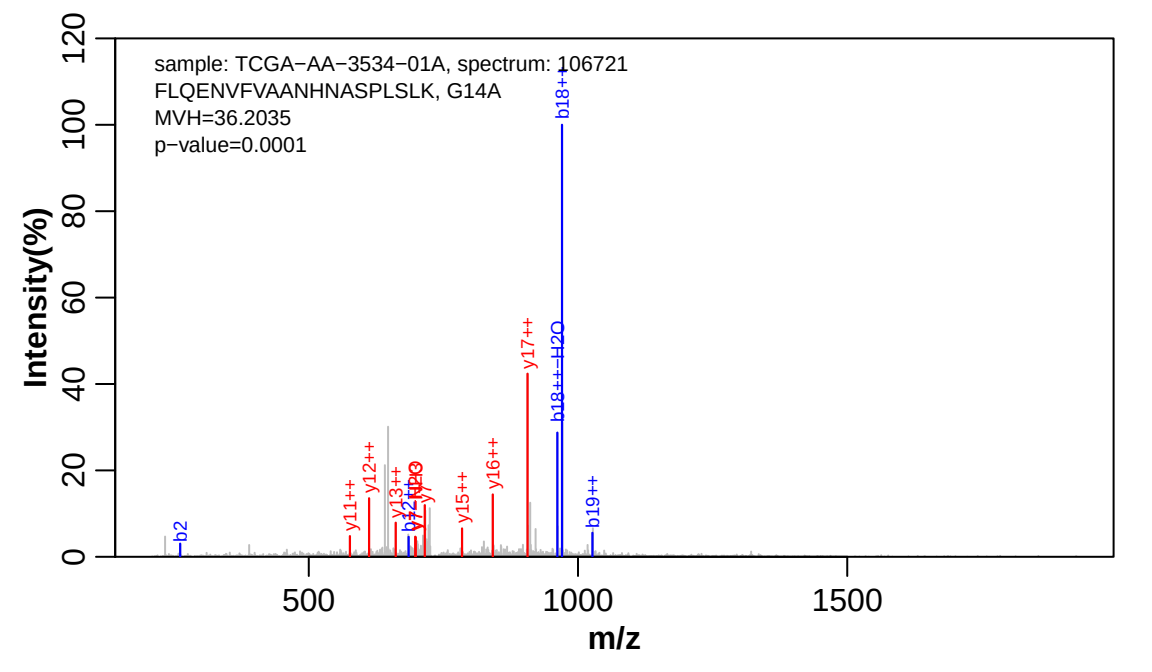

sample: TCGA−AA−3534−01A, spectrum: 64198
EATSVPHLYALGDVVEGRPELTPTALMAGR, I24T
MVH=78.5949
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y28+++
b8++−H2O
y6
y15++
y25+++−H2O
b26+++
y10
b10−H2O
b21++−H2O
b22++−NH3−H2O
b33−NH3

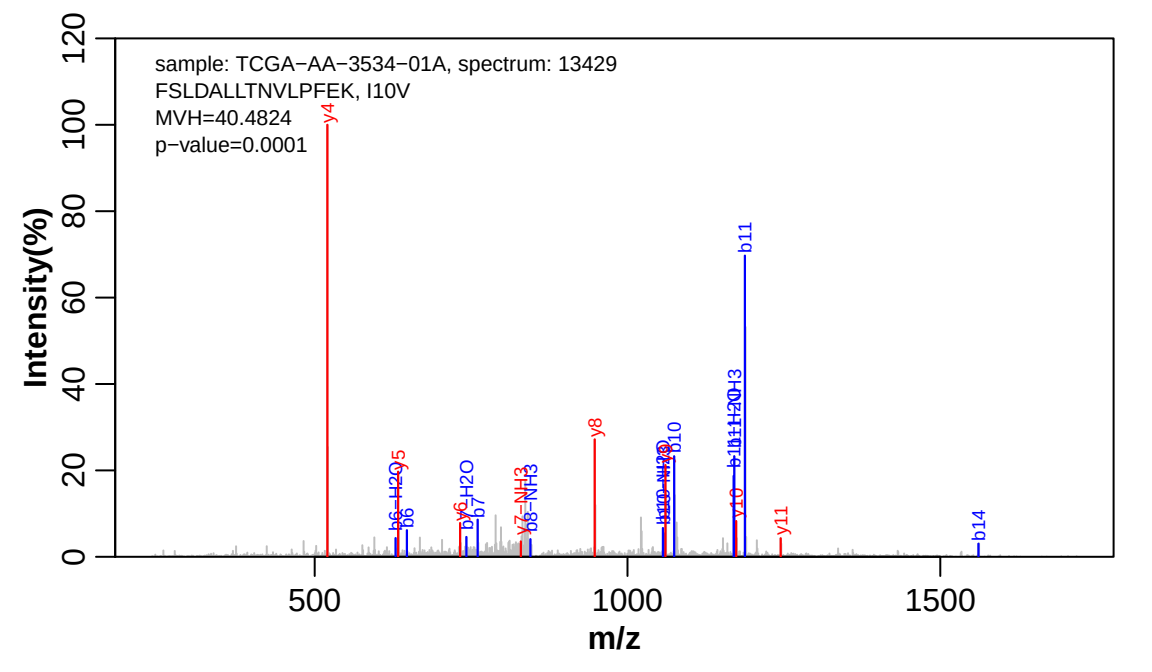

sample: TCGA−AA−3534−01A, spectrum: 51353
ELVDDSLNNVR, V7I
MVH=51.6576
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3−H2O
b5
y5−H2O
y5
b6
y6−NH3
y6
b7−H2O
b7
y7−H2O−NH3
y7
y8
b9−NH3
b9
y9
b10−H2O
b10

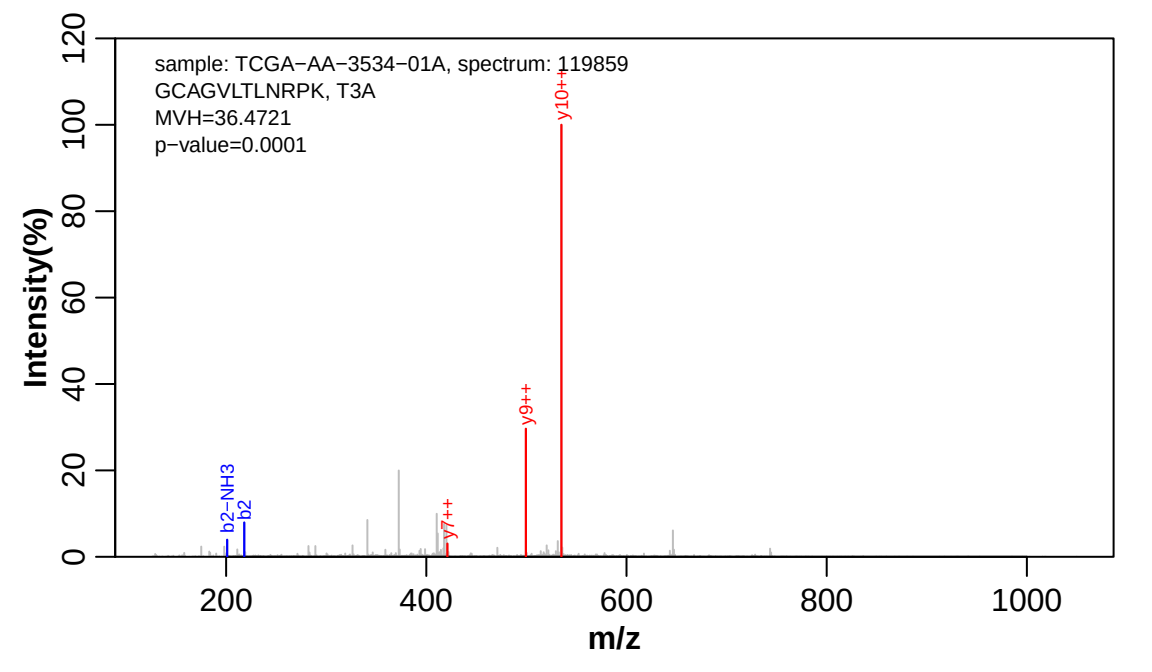

sample: TCGA−AA−3534−01A, spectrum: 46453
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=23.2908
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

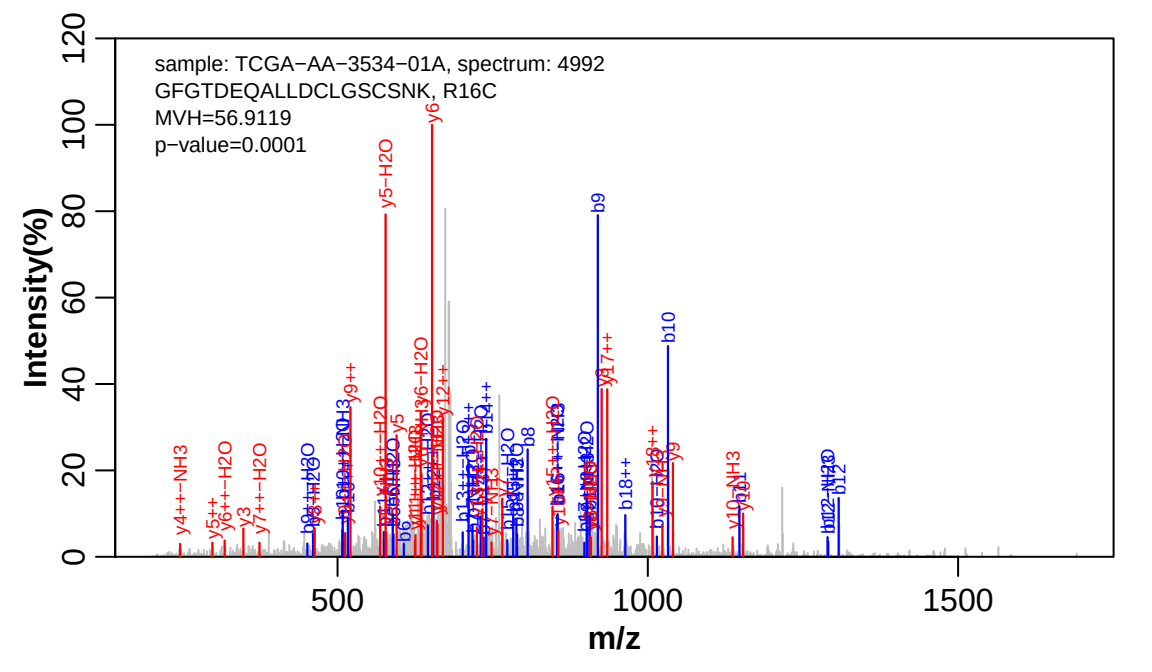

sample: TCGA−AA−3534−01A, spectrum: 5120
FFGSLPDSWAR, S11R
MVH=43.1517
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
y6
y7
y8
y9

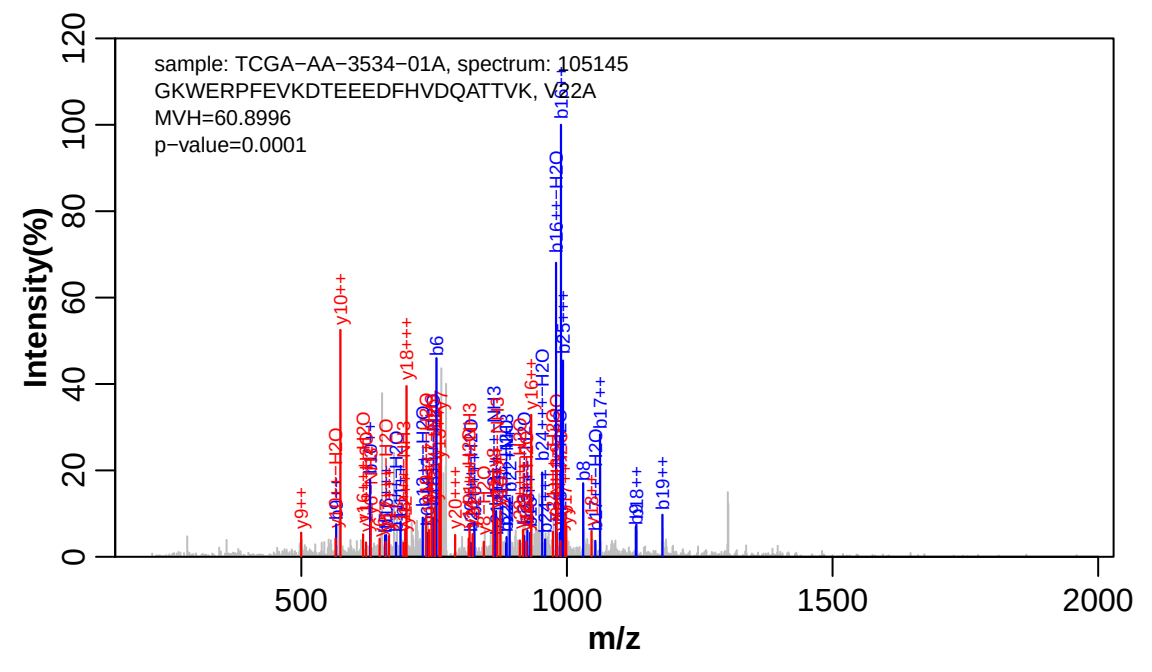

sample: TCGA−AA−3534−01A, spectrum: 5789
FGQDLLSPLLSVR, K13R
MVH=44.8887
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b7−H2O
b7
y8
y7
y9
b10
y10

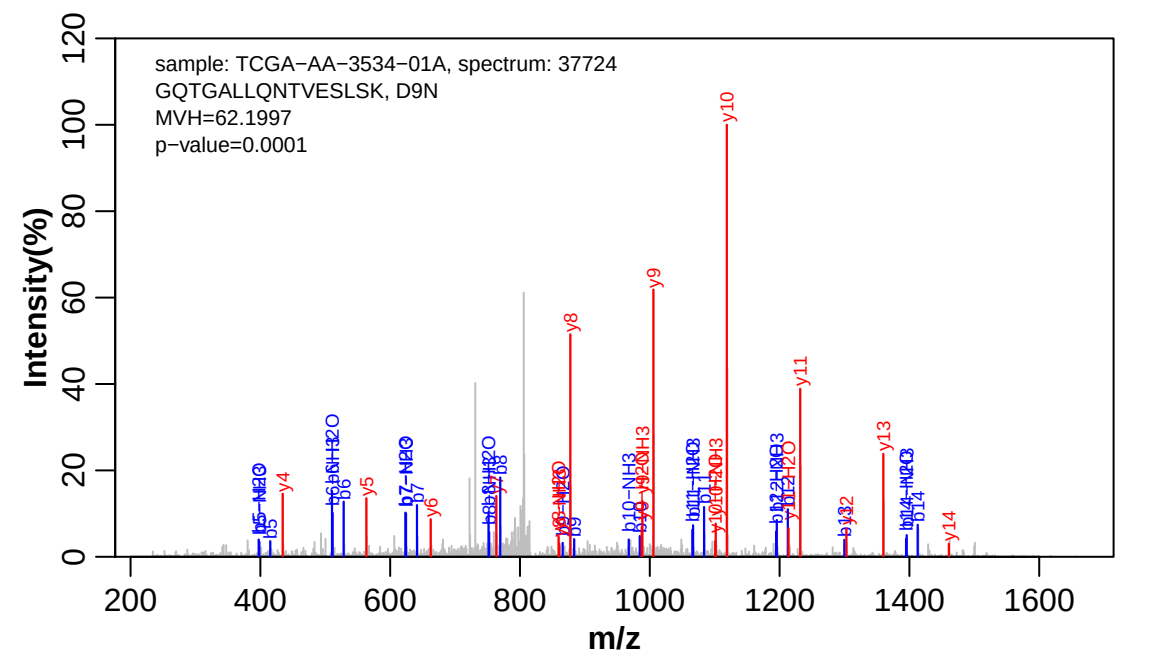

sample: TCGA−AA−3534−01A, spectrum: 106721
FLQENVFVAANHNASPLSLK, G14A
MVH=36.2035
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y11++
y12++
y13++
y15++
y16++
y17++
b18++−H2O
b18++
b19++

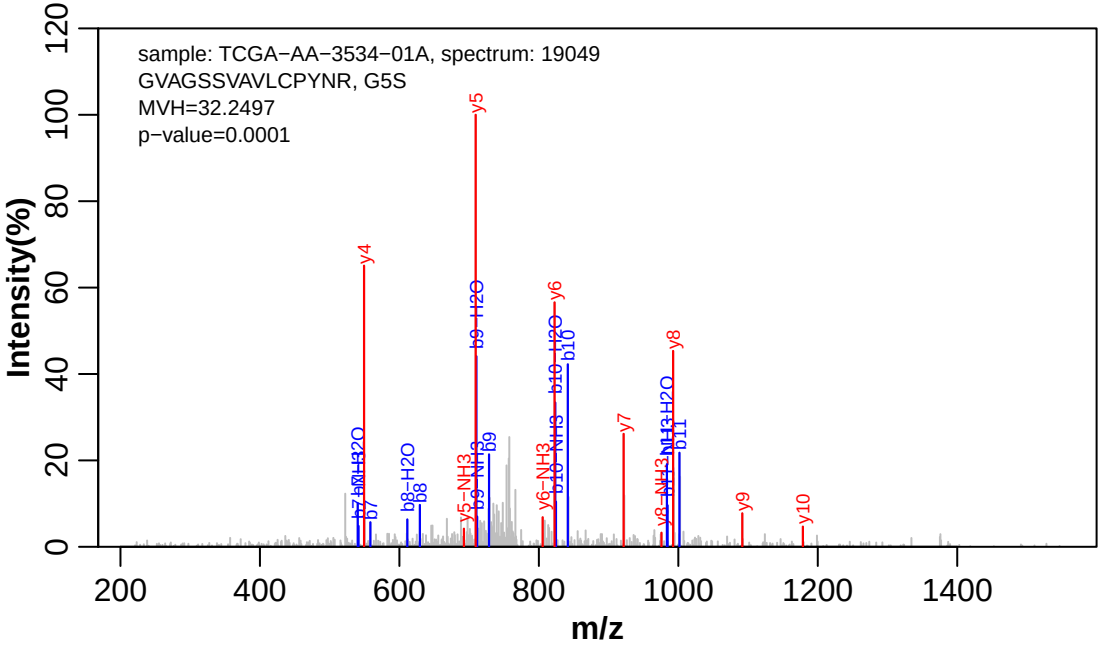

sample: TCGA−AA−3534−01A, spectrum: 13429
FSLDALLTNVLPFEK, I10V
MVH=40.4824
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−NH3
b8−NH3
y8
b10
b10−NH3
b10−H2O
y10
b11
b11−H2O
b11−NH3
y11
b14

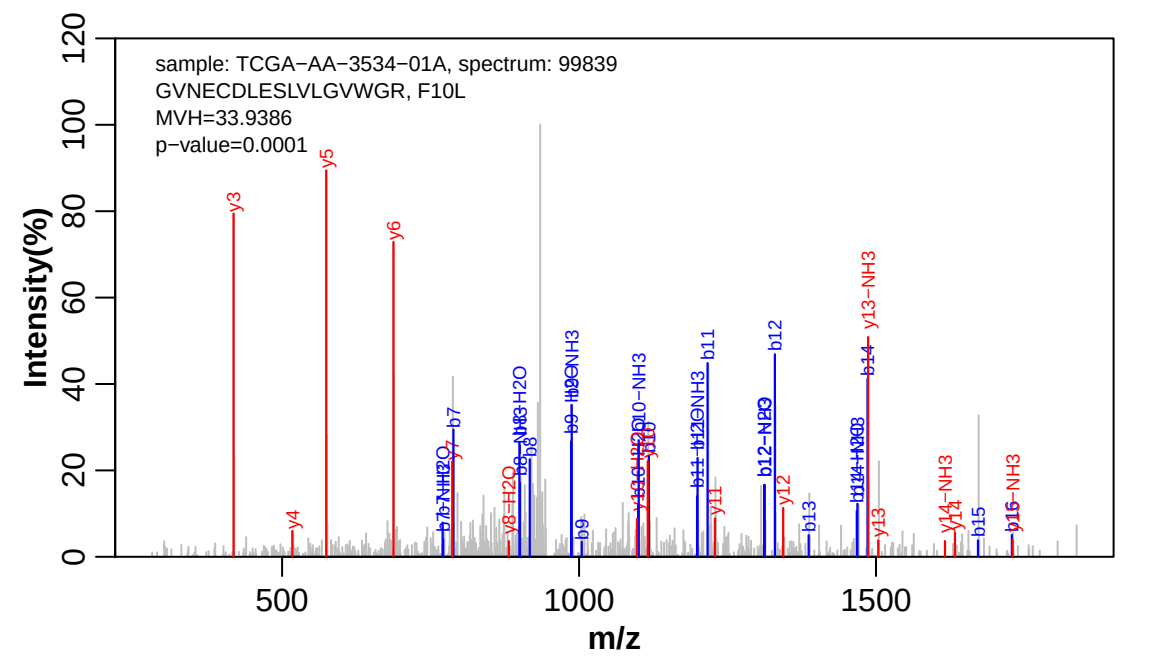

sample: TCGA−AA−3534−01A, spectrum: 119859
GCAGVLTLNRPK, T3A
MVH=36.4721
p−value=0.0001
y10++
y9++
y7++
b2−NH3
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

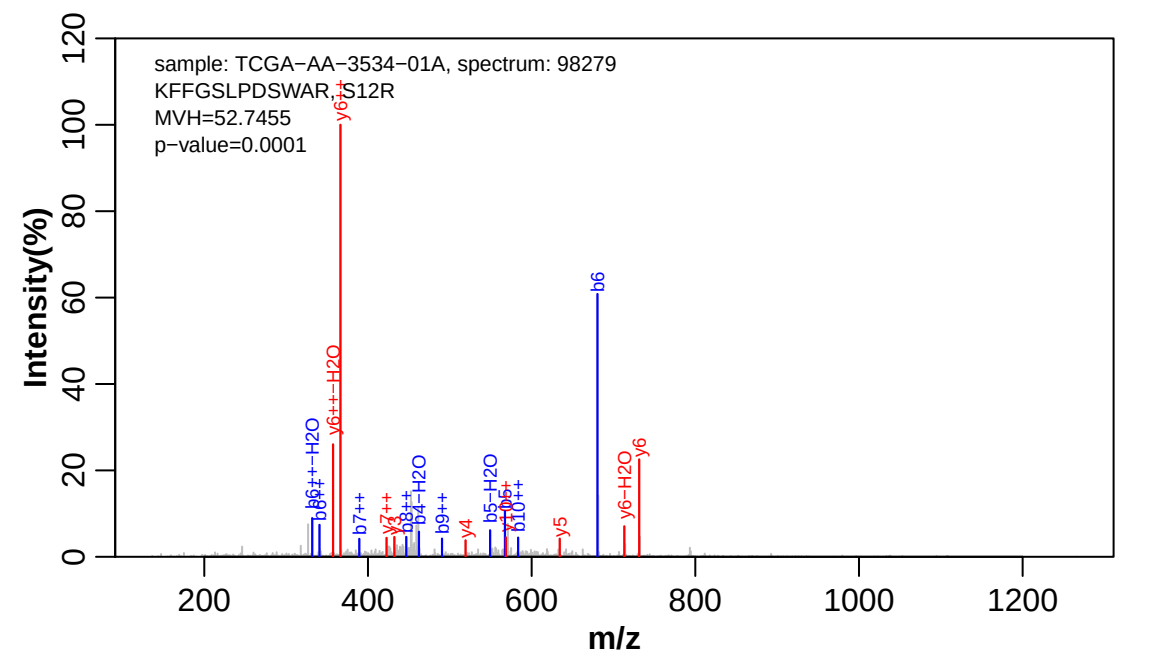

sample: TCGA−AA−3534−01A, spectrum: 4992
GFGTDEQALLDCLGSCSNK, R16C
MVH=56.9119
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5
y4++−NH3
y5++
y6++−H2O
y3
y7++−H2O
b9
b10
y7++
b18++
y9
y10−NH3
y10
b12

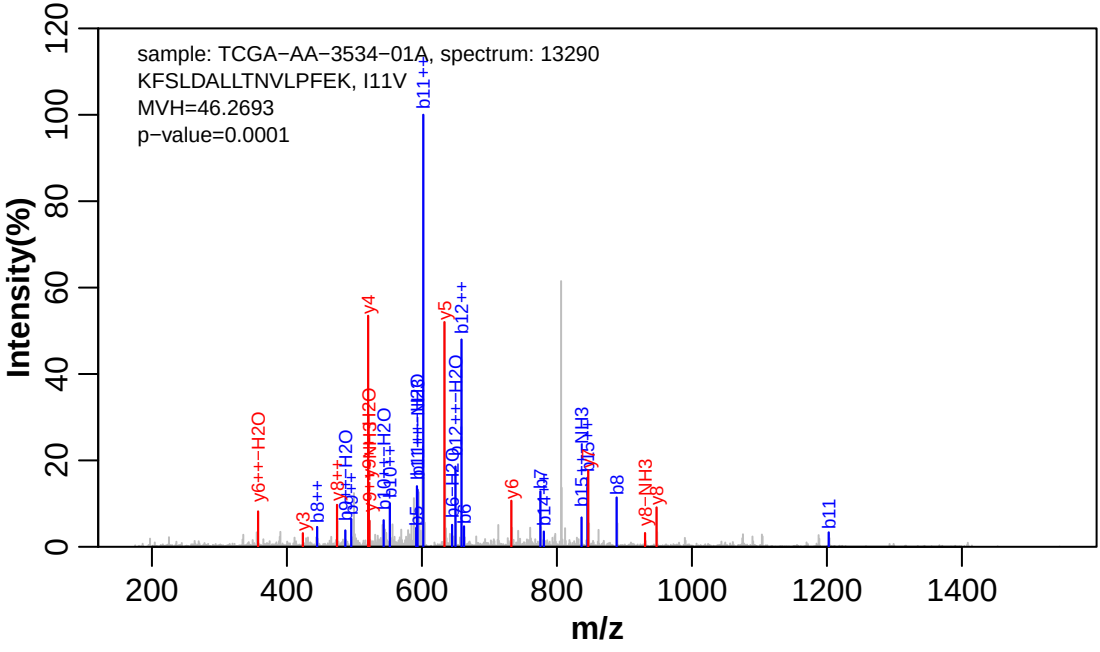

sample: TCGA−AA−3534−01A, spectrum: 105145
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=60.8996
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y9++
y10++
b6
y18+++
b16++−H2O
b25+++
b17++
b19++

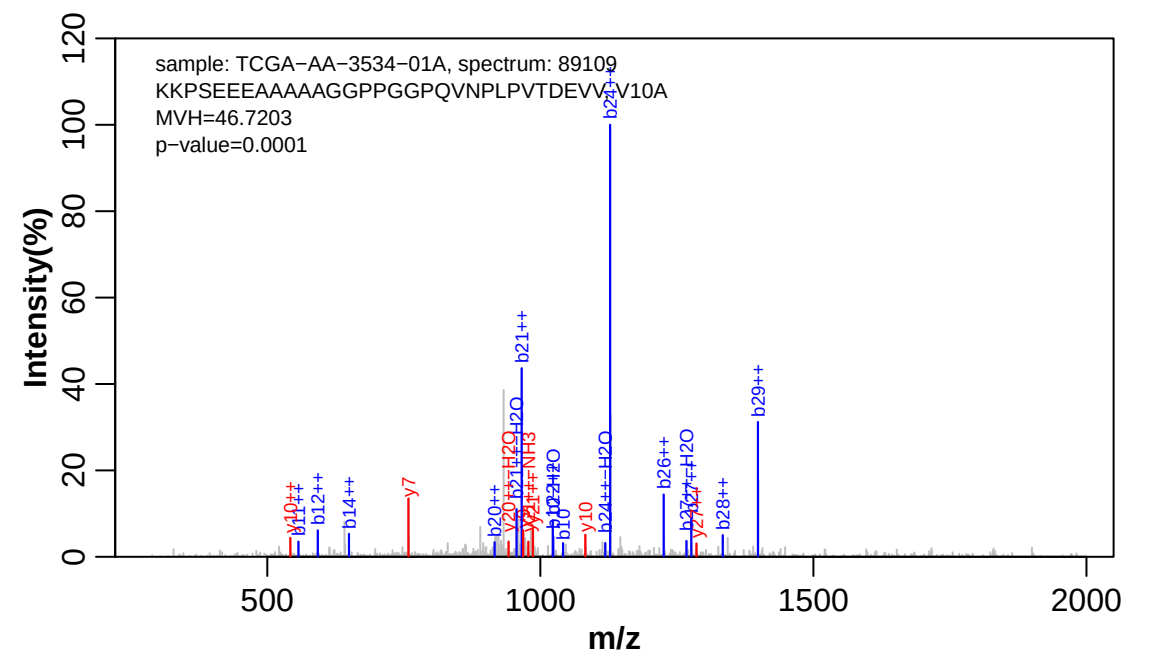

sample: TCGA−AA−3534−01A, spectrum: 37724
GQTGALLQNTVESLSK, D9N
MVH=62.1997
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y4
y5
y6
b10−NH3
b6−H2O−NH3
b7−NH3
b7
b6
b5
b14
b13

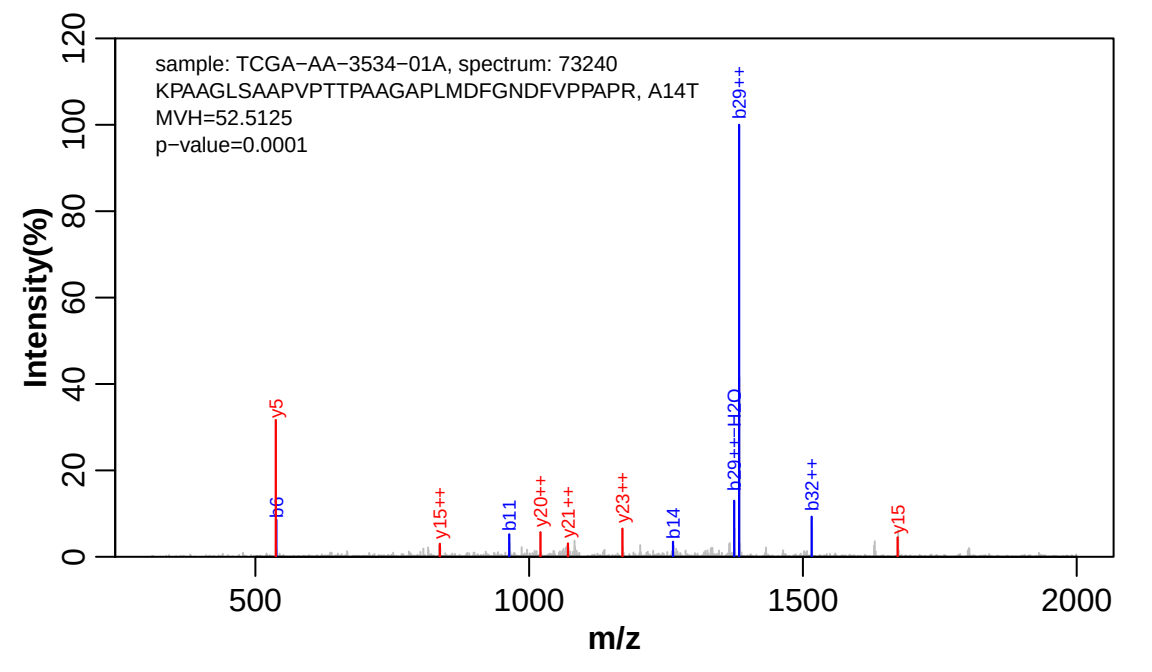

sample: TCGA−AA−3534−01A, spectrum: 19049
GVAGSSVAVLCPYNR, G5S
MVH=32.2497
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y6
y7
y8
y9
y10
b7
b8
b9
b10
b11
b8−H2O
b9−H2O
b10−H2O
b8−NH3
b9−NH3
b10−NH3
y5−NH3
y6−NH3
y8−NH3
y8−H2O
b7−H2O

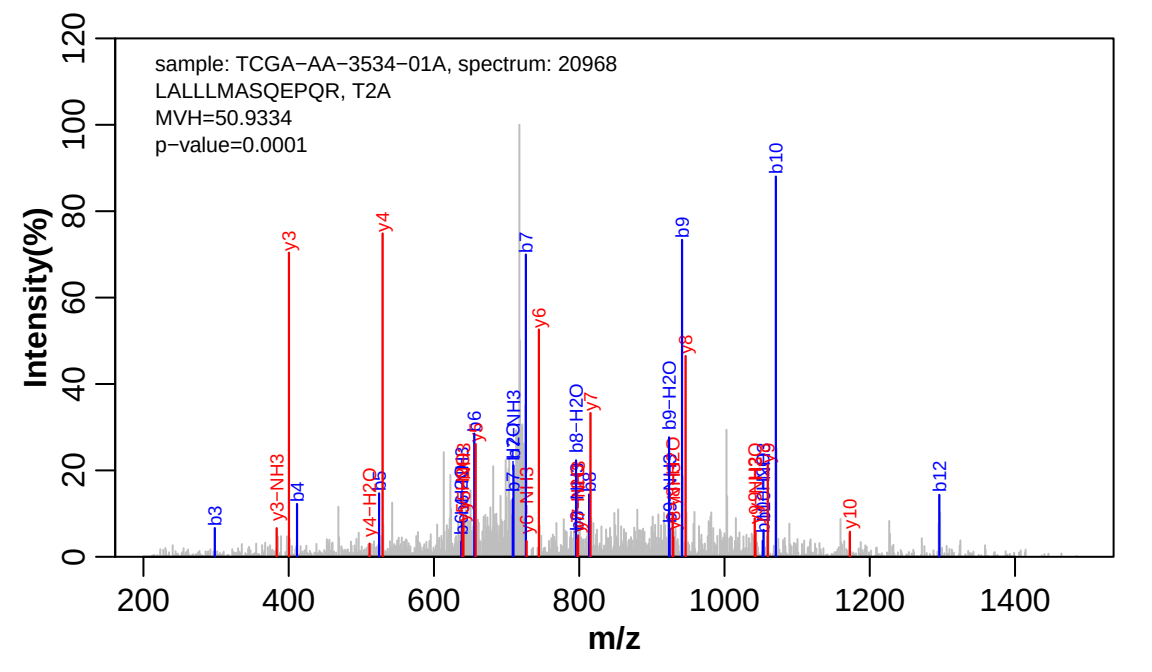

sample: TCGA−AA−3534−01A, spectrum: 99839
GVNECDLESLVLGVWGR, F10L
MVH=33.9386
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y5
y6
y4
y7−b7
y8−H2O
b8
b9
y9−NH3
y10−NH3
b11
b12
y11
y12
b13
y13−NH3
b14
y14−NH3
b15
y16−NH3

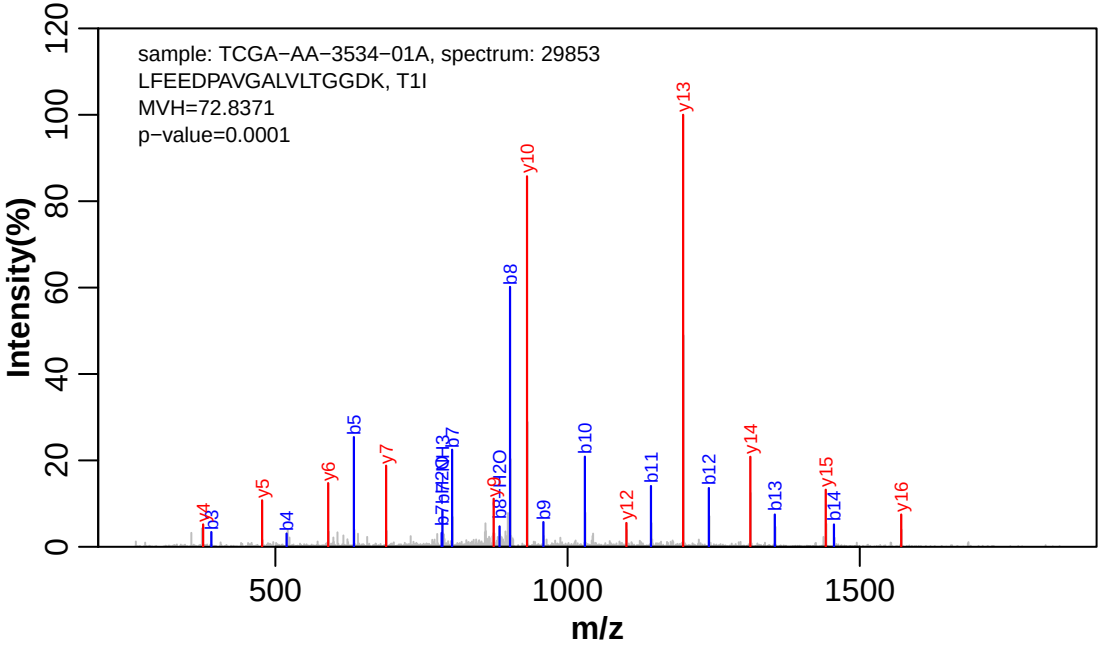

sample: TCGA−AA−3534−01A, spectrum: 98279
KFFGSLPDSWAR, S12R
MVH=52.7455
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++
y6++−H2O
b6++−H2O
b6++
b8++
b7++
y7++
y3++
b8++
b4−H2O
b9++
y4
b5−H2O
y10++
y5
b6
y6−H2O
y6

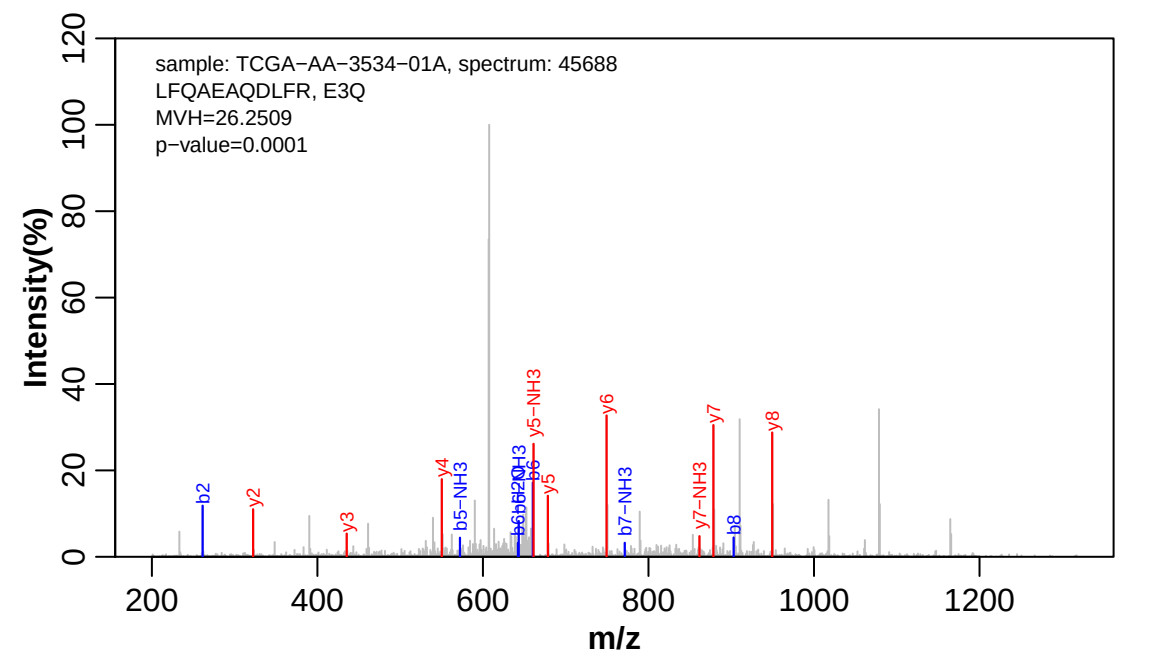

sample: TCGA−AA−3534−01A, spectrum: 13290
KFSLDALLTNVLPFEK, I11V
MVH=46.2693
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b11++
y4
y5
b12++
y6++−H2O
y3
b8++
y6
b8
y8−NH3
y8
b11

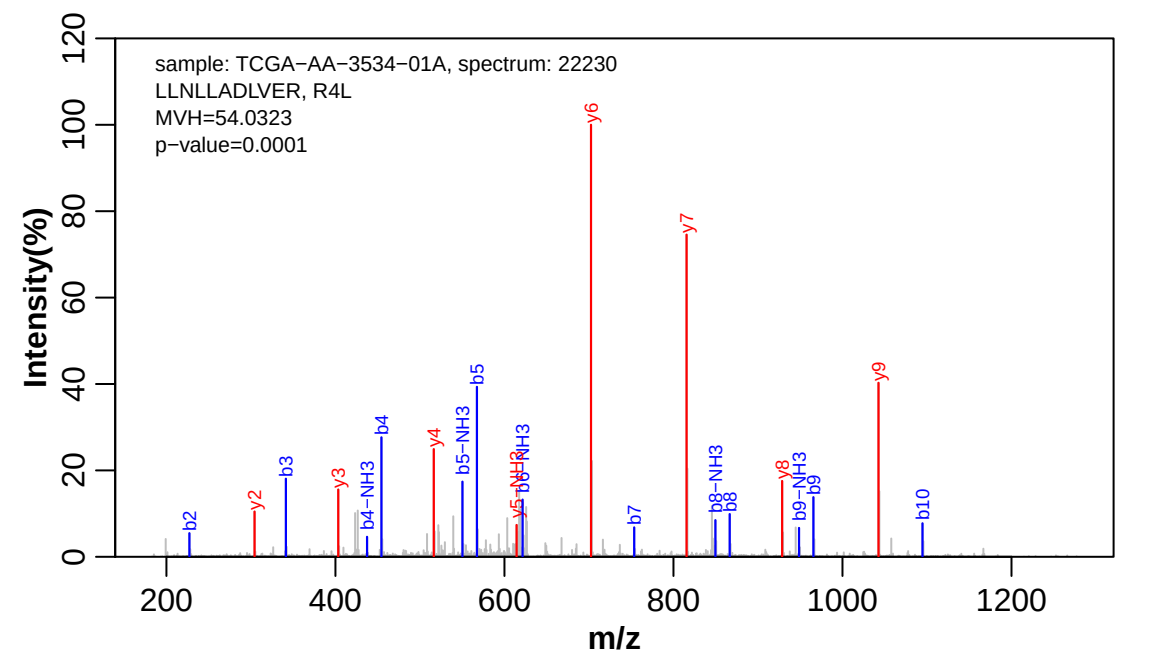

sample: TCGA−AA−3534−01A, spectrum: 89109
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=46.7203
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
b21++−H2O
b21++−NH3
b21++−2H2O
b29++
b26++
b24++−H2O
b24++−2H2O
b37+++−H2O
b28++
b20++
b12++
b14++
y7
y10
y10++
b11++

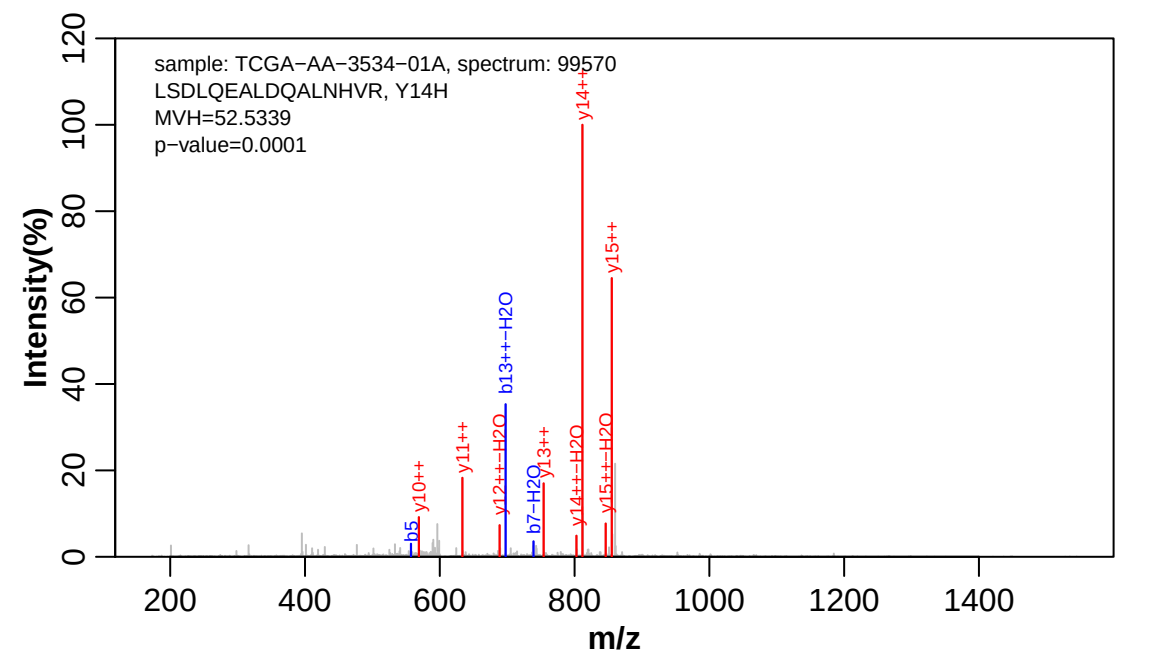

sample: TCGA−AA−3534−01A, spectrum: 73240
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=52.5125
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y5
b6
y15++
b11
y20++
y21++
y23++
b14
b29++−H2O
b29++
b32++
y15

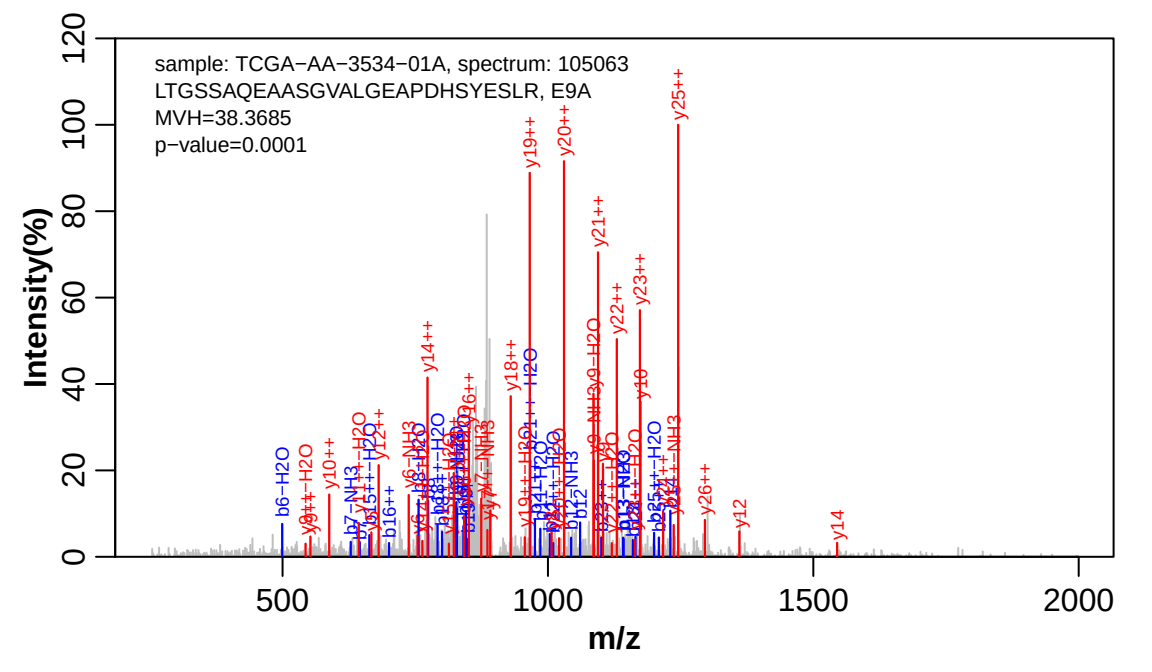

sample: TCGA−AA−3534−01A, spectrum: 20968
LALLLMASQEPQR, T2A
MVH=50.9334
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3−NH3
b4
y3
y4−H2O
b5
y4
b6
b7−H2O
b7−NH3
b7
y6−NH3
y6
b8−H2O
y7
b8
y8−NH3
y8
b9−H2O
b9−NH3
b9
y8
b10
y10
b12

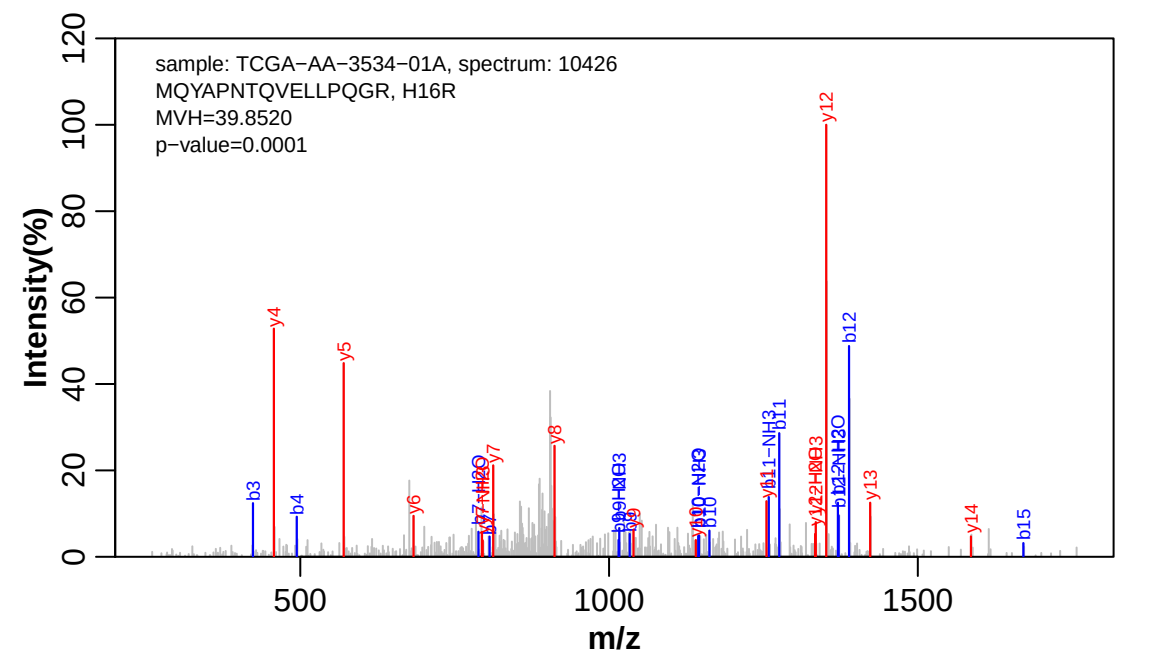

sample: TCGA−AA−3534−01A, spectrum: 29853
LFEEDPAVGALVLTGGDK, T1I
MVH=72.8371
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7
b7-H2O
b13
b7
y8
b8-H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

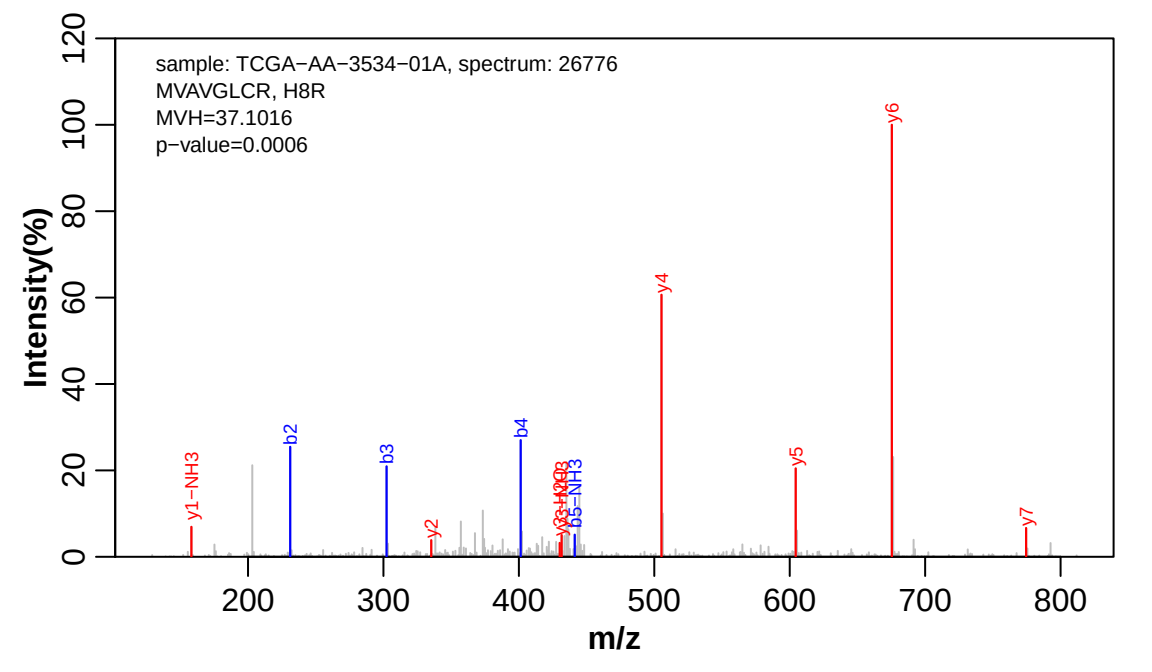

sample: TCGA−AA−3534−01A, spectrum: 45688
LFQAEAQDLFR, E3Q
MVH=26.2509
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
y3
y4
b5−NH3
y5−NH3
y6
b7−NH3
y7
y7−NH3
b8
y8

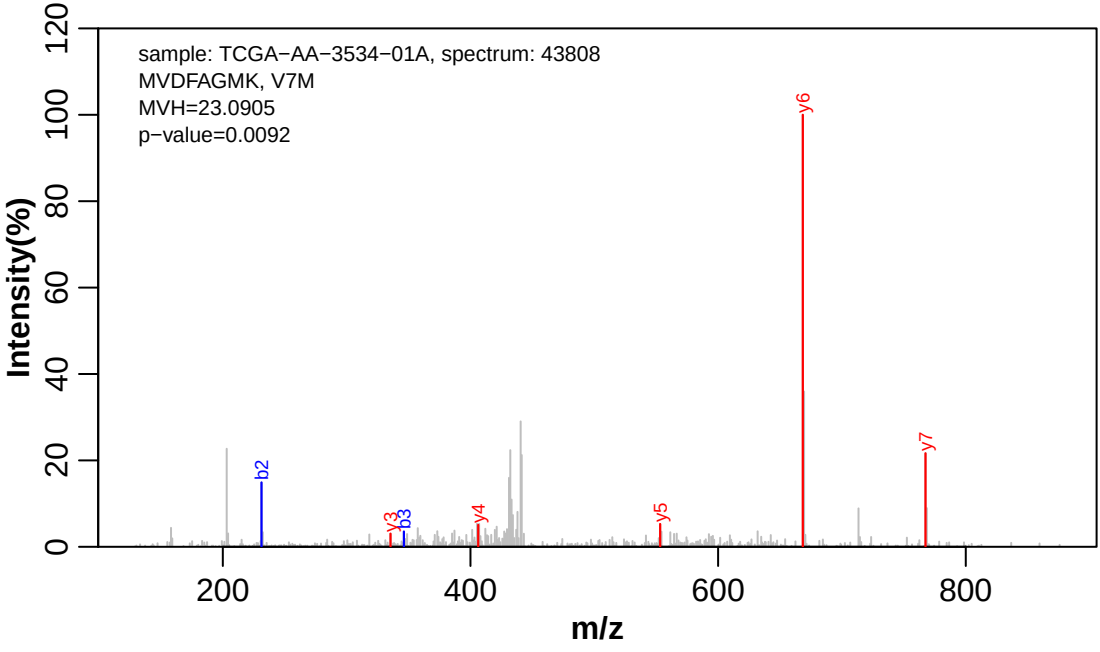

sample: TCGA−AA−3534−01A, spectrum: 22230
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b5−NH3
b4
b4−NH3
b3
b2
b6
b6−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

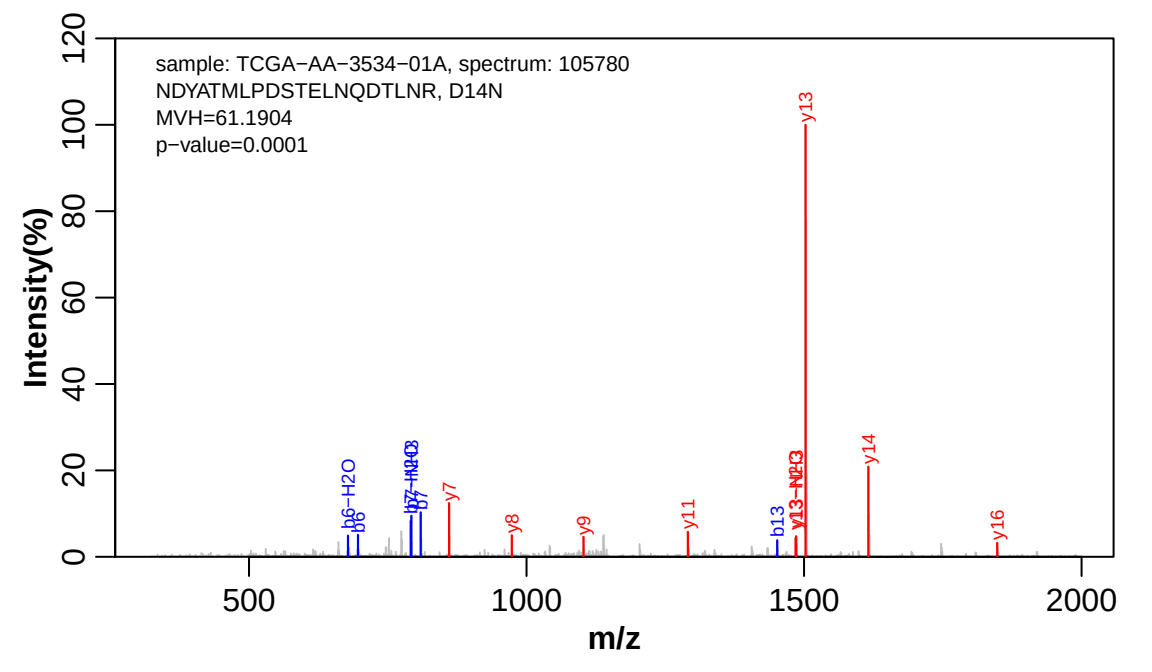

sample: TCGA−AA−3534−01A, spectrum: 99570
LSDLQEALDQALNHVR, Y14H
MVH=52.5339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5
y10++
y11++
y12++−H2O
b13++−H2O
b7−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

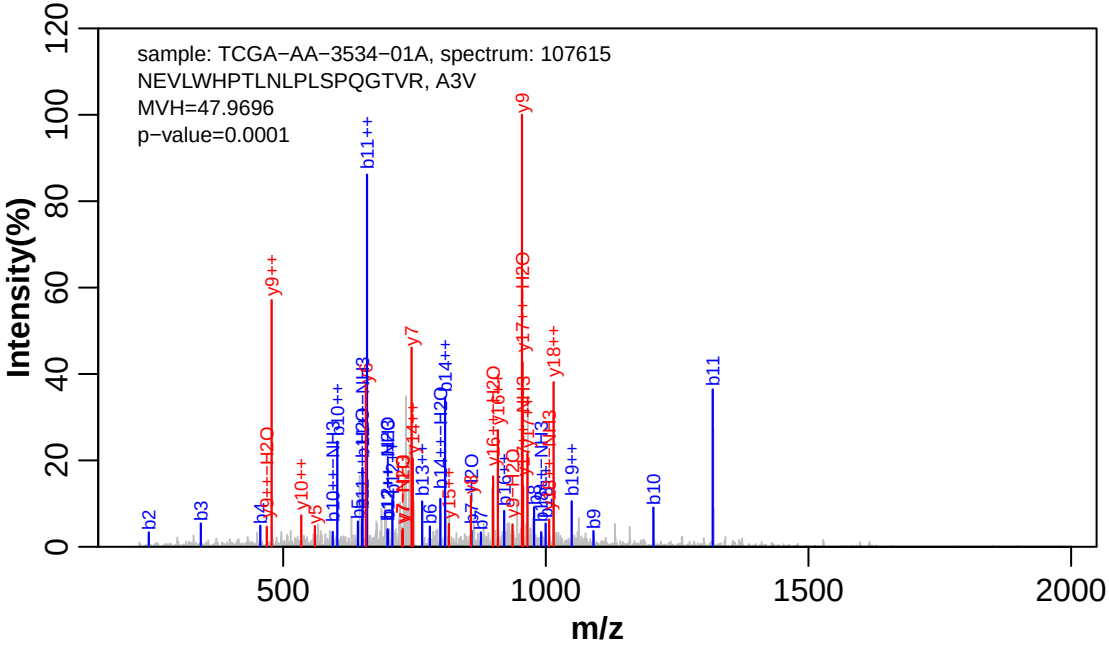

sample: TCGA−AA−3534−01A, spectrum: 105063
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=38.3685
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y25++
y19++
y20++
y21++
y18++
y14++
y22++
y23++
y10
y26++
y12
y14
b6−H2O
y9++−H2O
y10++
b7−NH3
y15++−H2O
y12++
b16++
y6−NH3
y9−NH3
y9−H2O
y19++−H2O
b12−NH3
y25++−NH3

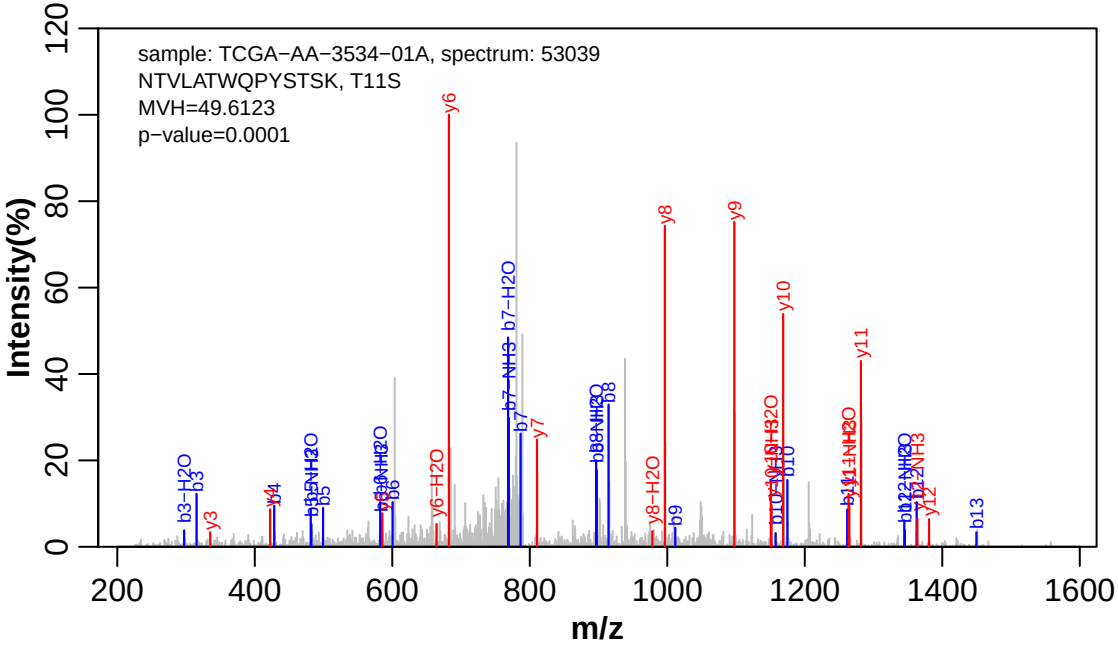

sample: TCGA−AA−3534−01A, spectrum: 10426
MQYAPNTQVELLPQGR, H16R
MVH=39.8520
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y12
b3
b4
b11
b12
y13
y14
b15

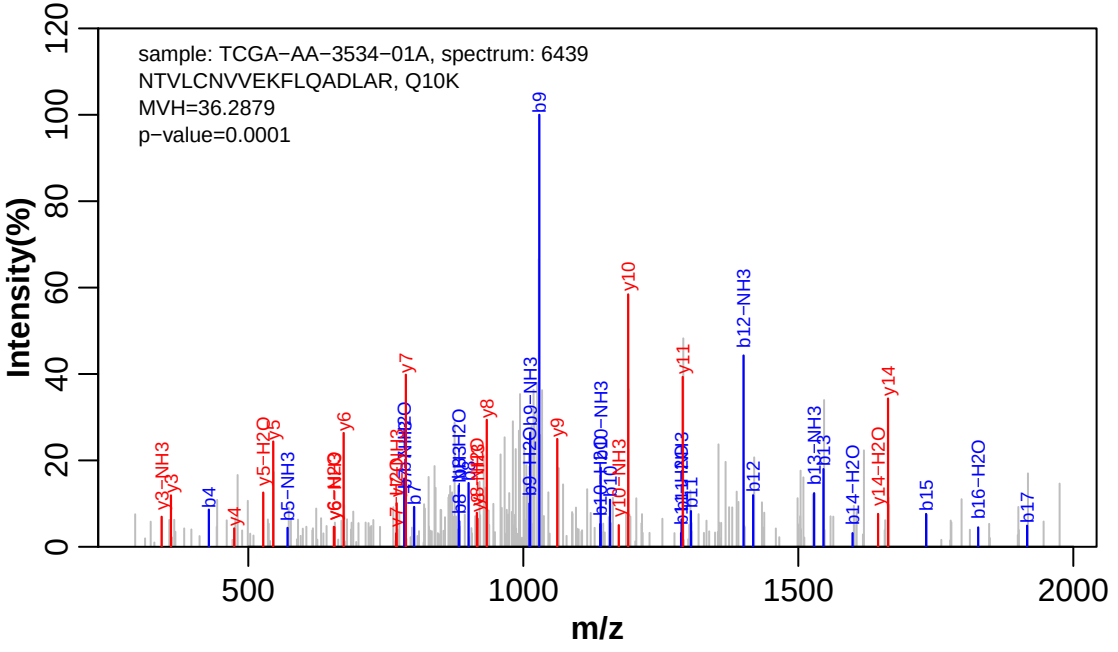

sample: TCGA−AA−3534−01A, spectrum: 26776
MVAVGLCR, H8R
MVH=37.1016
p−value=0.0006
Intensity(%)
m/z
y1−NH3
b2
b3
y2
b4
b5−NH3
y4
y5
y6
y7

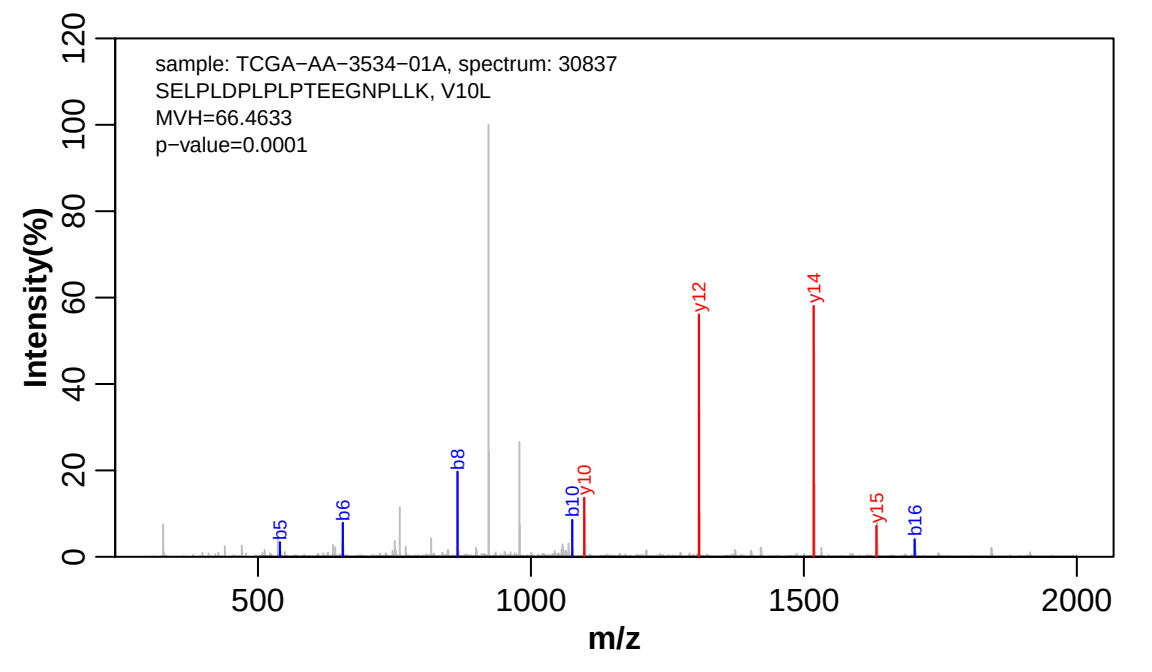

sample: TCGA−AA−3534−01A, spectrum: 43808
MVDFAGMK, V7M
MVH=23.0905
p−value=0.0092
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y3
b3
y4
y5
y6
y7

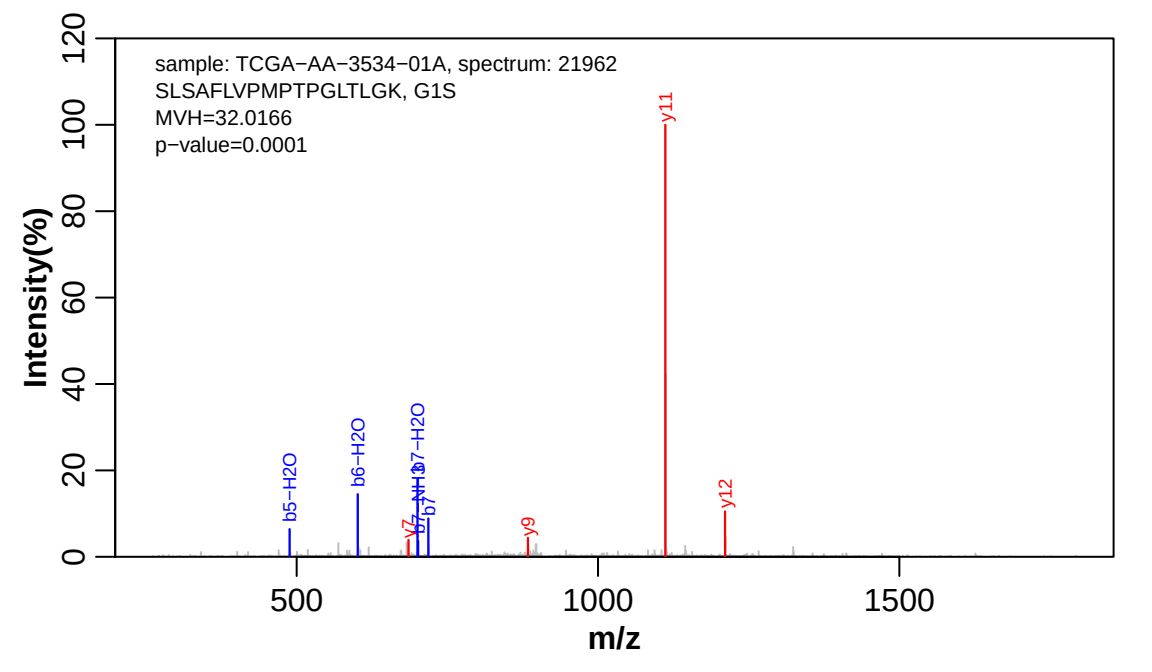

sample: TCGA−AA−3534−01A, spectrum: 105780
NDYATMLPDSTELNQDTLNR, D14N
MVH=61.1904
p−value=0.0001
Intensity(%)
m/z
y13
y14
y16
y7
y8
y9
y11
b13
b6−H2O
y13−NH3

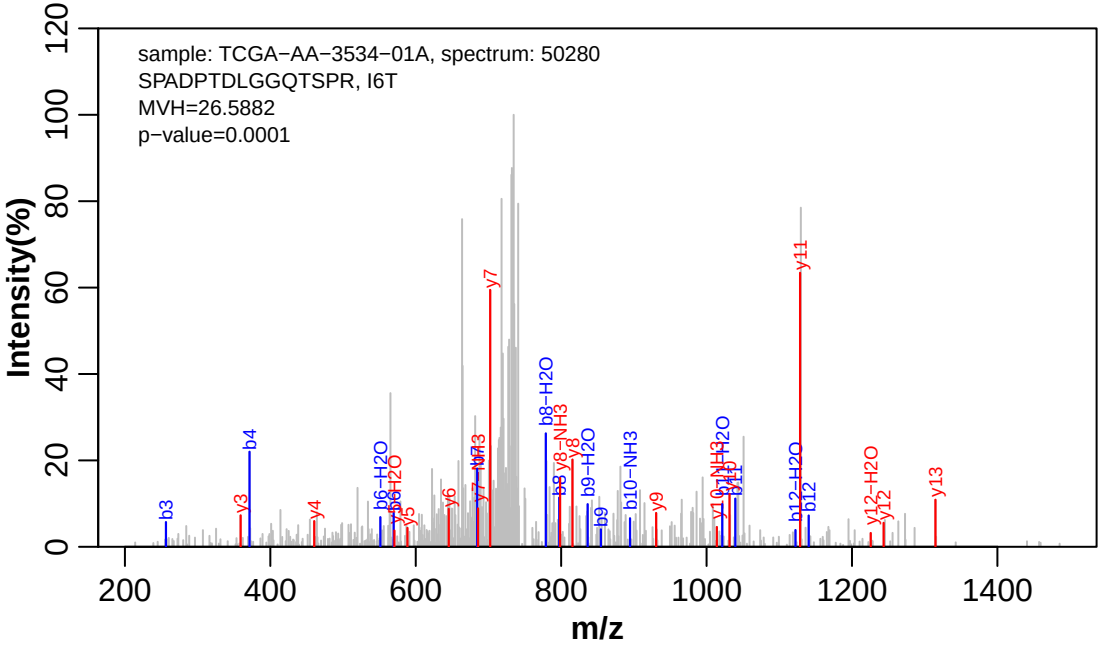

sample: TCGA−AA−3534−01A, spectrum: 107615
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=47.9696
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
b3
b4
y9++ H2O
y9++
y10++
y5
b10++ NH3
b10++
b5++ H2O
b5++ NH3
b11++
y7
b13++
b6
y14++
b14++ H2O
b14++
y15++
b7
y8
y16++ H2O
y16++
y17++ H2O
y9
y18++
b11
b19++
b9
b10

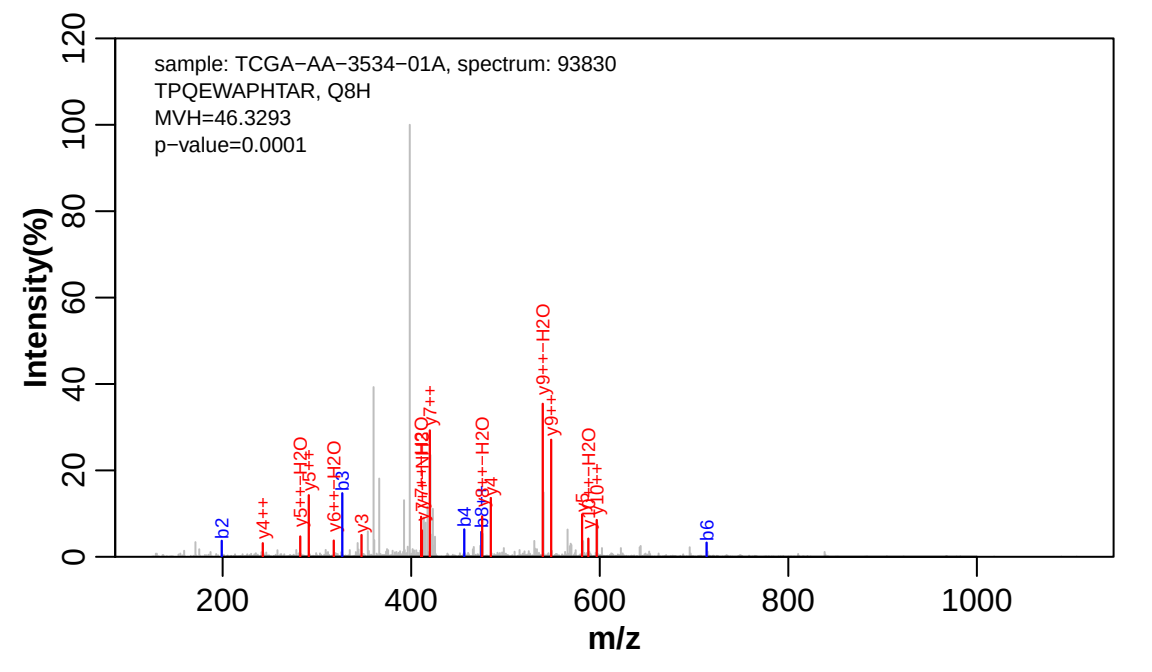

sample: TCGA−AA−3534−01A, spectrum: 53039
NTVLATWQPYSTSK, T11S
MVH=49.6123
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y8
y9
y10
y11
b7−NH3
b7−H2O
b7
y7
b8
y8−H2O
b9
y6−H2O
b3−H2O
b3
y3
y4
b5
b13
y12

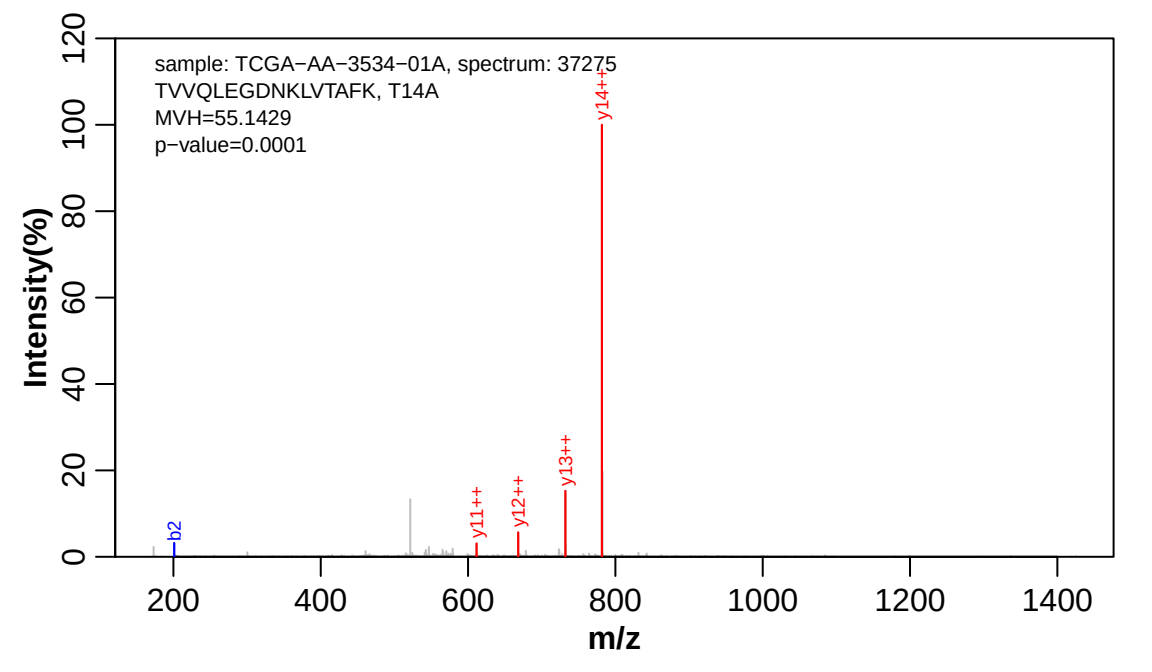

sample: TCGA−AA−3534−01A, spectrum: 6439
NTVLCNVVEKFLQADLAR, Q10K
MVH=36.2879
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9
y10
b12−NH3
y11
y14
b13−NH3
b14−H2O
y14−H2O
b15
b16−H2O
b17
b12
b13
y9
b9−NH3
y8
y7
y6
y5−H2O
y5
b5−NH3
y3−NH3
y3
b4
y4

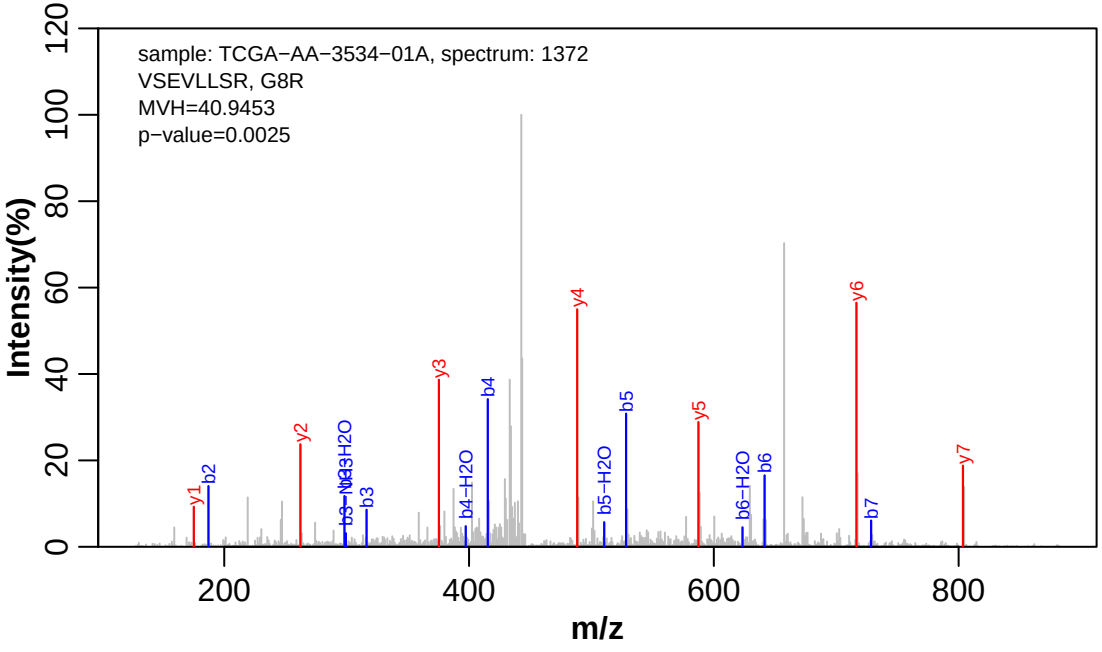

sample: TCGA−AA−3534−01A, spectrum: 30837
SELPLDPLPLPTEEGNPLLK, V10L
MVH=66.4633
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6
b8
b10
y10
y12
y14
y15
b16

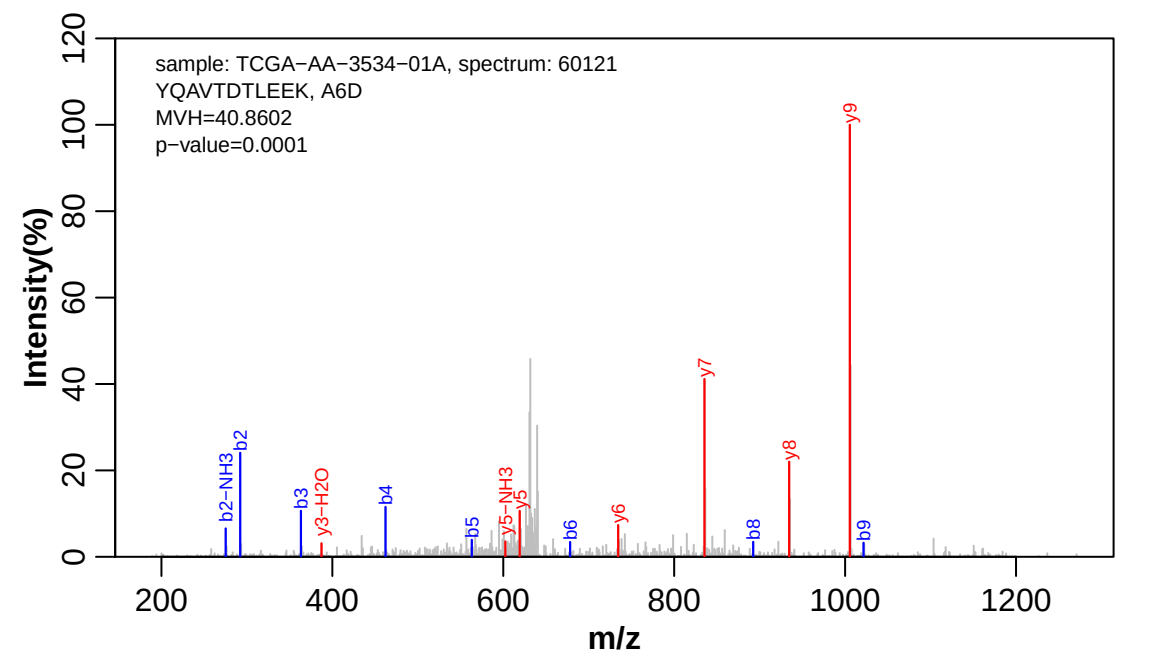

sample: TCGA−AA−3534−01A, spectrum: 21962
SLSAFLVPMPTPGLTLGK, G1S
MVH=32.0166
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b5−H2O
b6−H2O
b7−H2O
b7
y7
y9
y11
y12

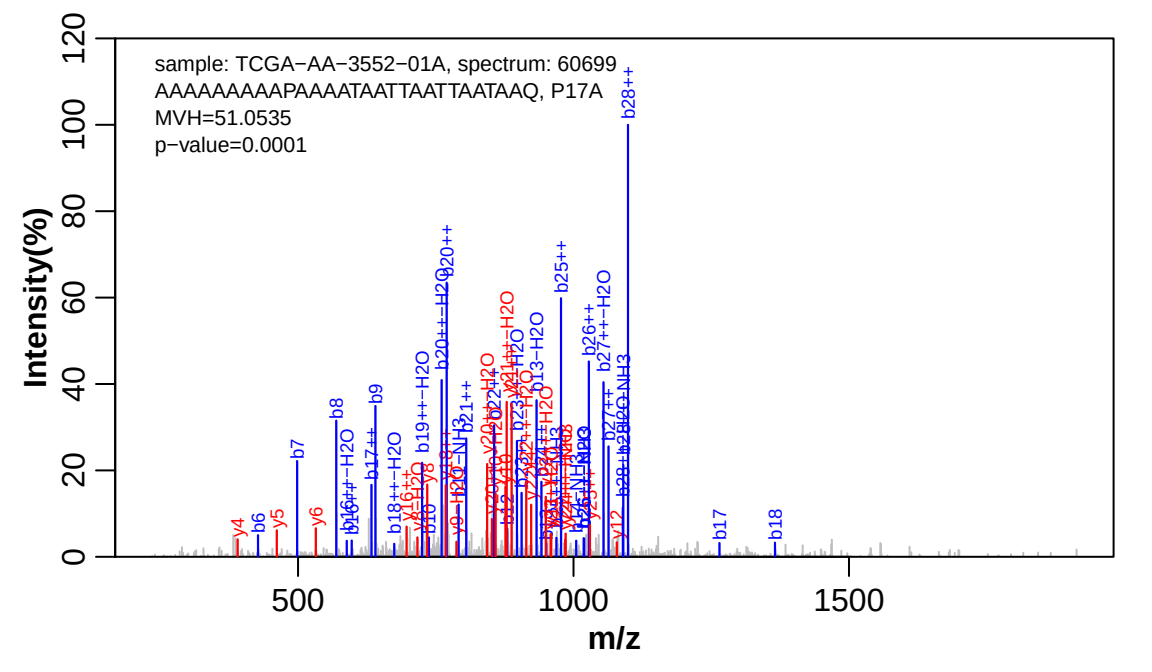

sample: TCGA−AA−3534−01A, spectrum: 50280
SPADPTDLGGQTSPR, I6T
MVH=26.5882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
y4
b6−H2O
b6−NH3
y5
y6
y7−NH3
y7
b8−H2O
b8
y8−NH3
y8
b9−H2O
b9
b10−NH3
y9
y10−NH3
y10−H2O
b11
y11
b12−H2O
b12
y12−H2O
y12
y13

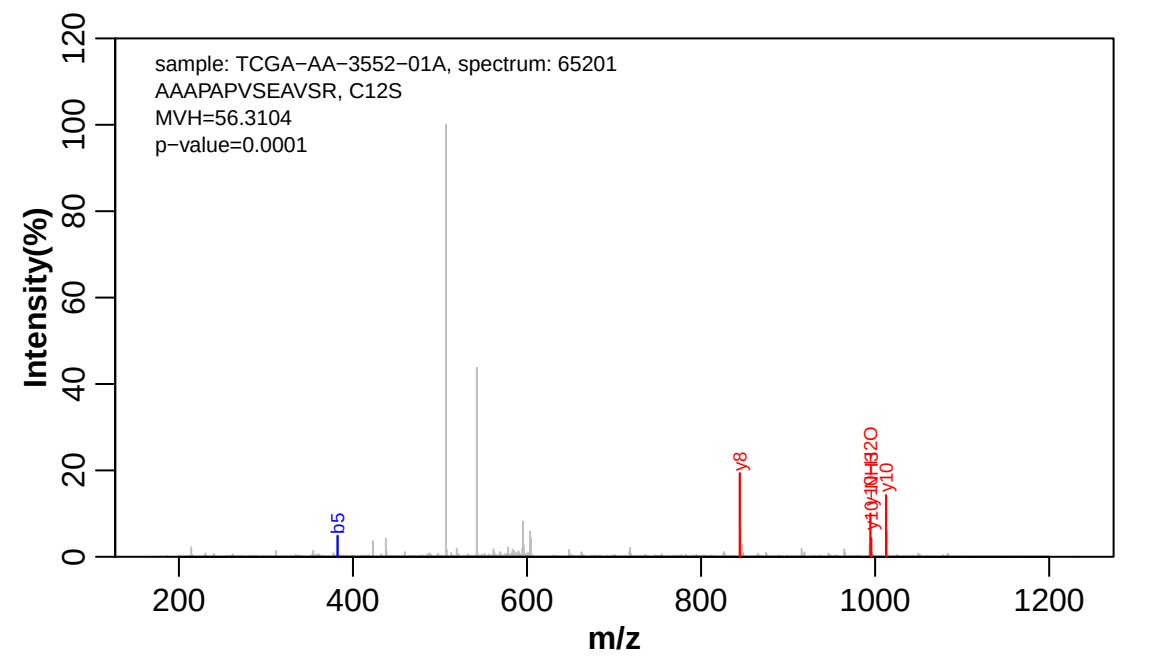

sample: TCGA−AA−3534−01A, spectrum: 93830
TPQEWAPHTAR, Q8H
MVH=46.3293
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y4++
y5++−H2O
y5++
y6++−H2O
b3
y3
y7++−NH2
y7++
b4
b8++−H2O
y4
y9++−H2O
y9++
y5
y10++−H2O
b6

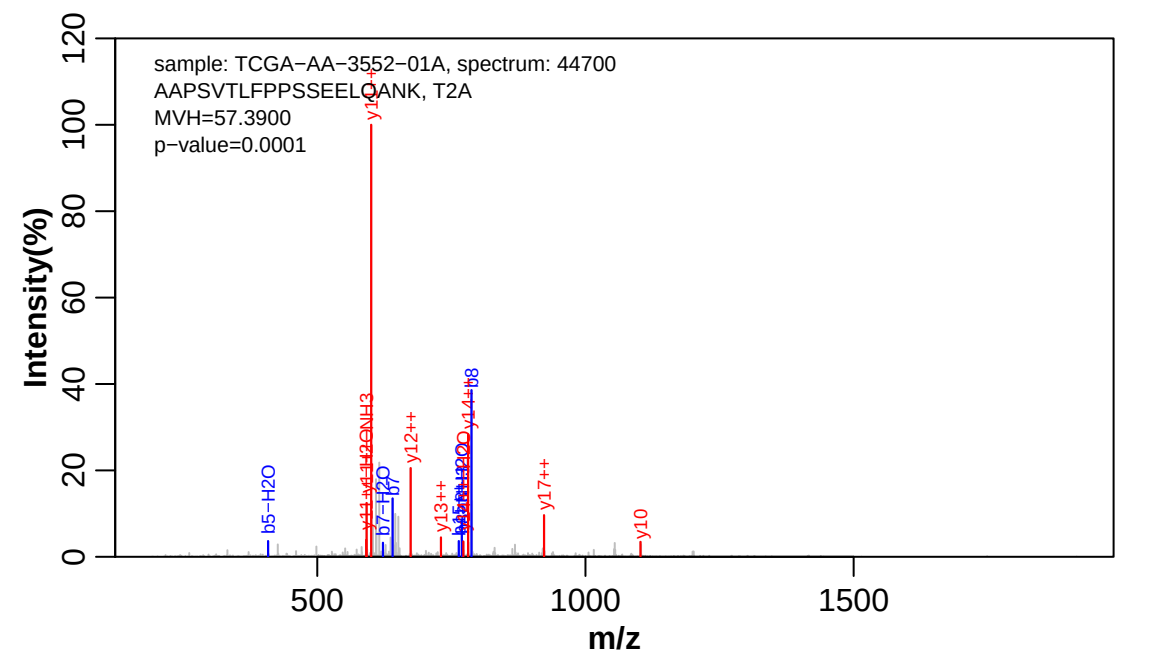

sample: TCGA−AA−3534−01A, spectrum: 37275
TVVQLEGDNKLVTAFK, T14A
MVH=55.1429
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

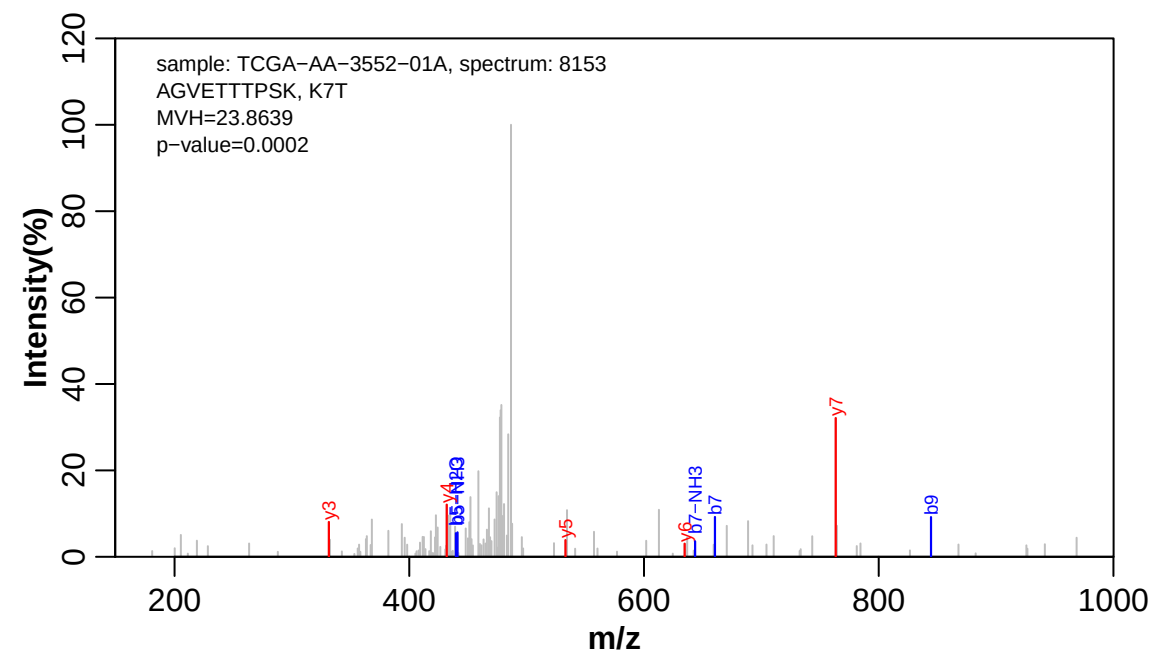

sample: TCGA−AA−3534−01A, spectrum: 1372
VSEVLLSR, G8R
MVH=40.9453
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
b4−H2O
y4
b5
b5−H2O
y5
b6
b6−H2O
y6
b7
y7

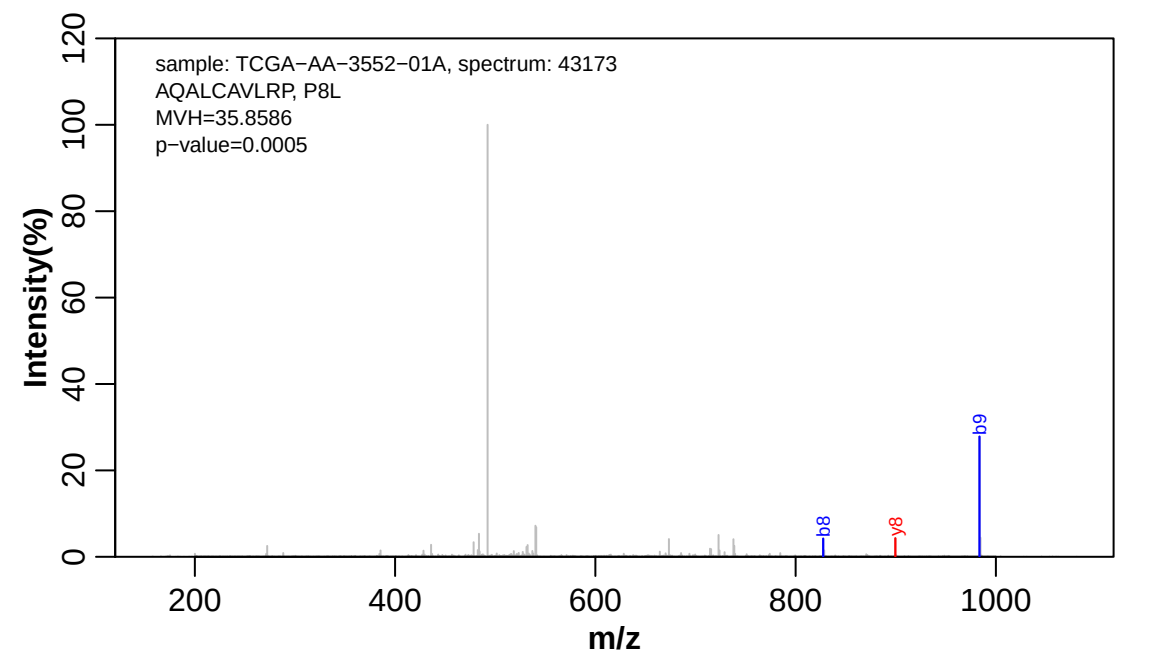

sample: TCGA−AA−3534−01A, spectrum: 60121
YQAVTDTLEEK, A6D
MVH=40.8602
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
b3
y3−H2O
b4
b5
y5−NH3
y5
b6
y6
y7
b8
y8
y9
b9

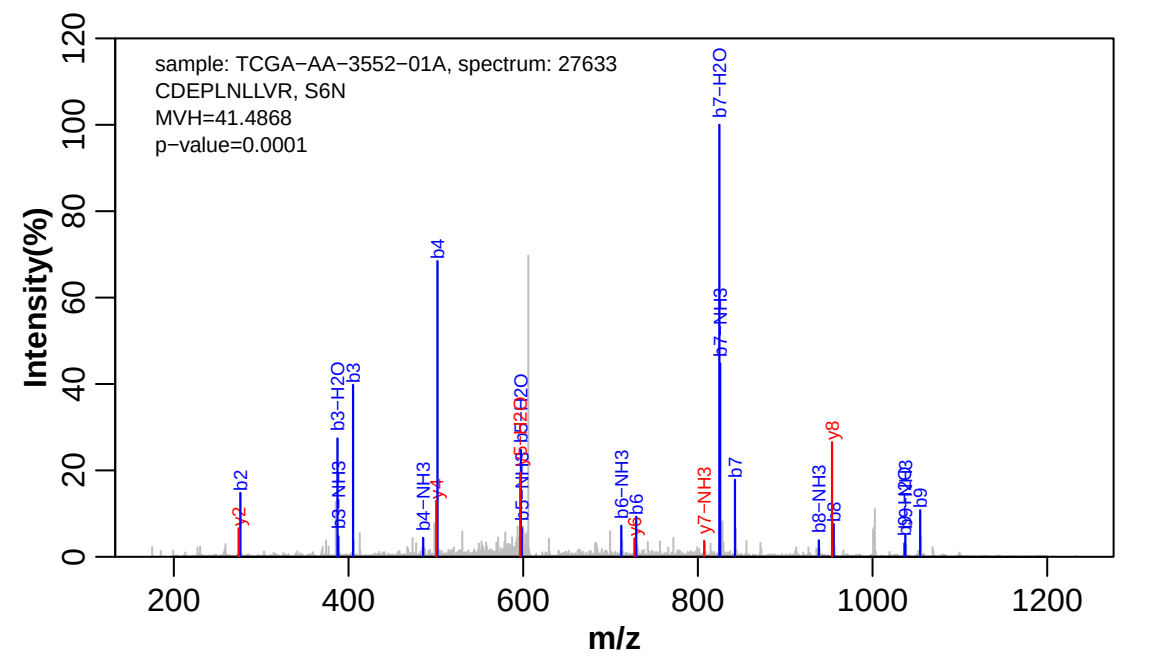

sample: TCGA−AA−3552−01A, spectrum: 60699
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=51.0535
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b20++
b20++−H2O
b8
b9
b7
y6
y5
y4
b6
b16++
b16++−H2O
b17++
b17++−H2O
b18++−H2O
b19++−H2O
b21++
b26++
b27++−H2O
b27++
b17
b18

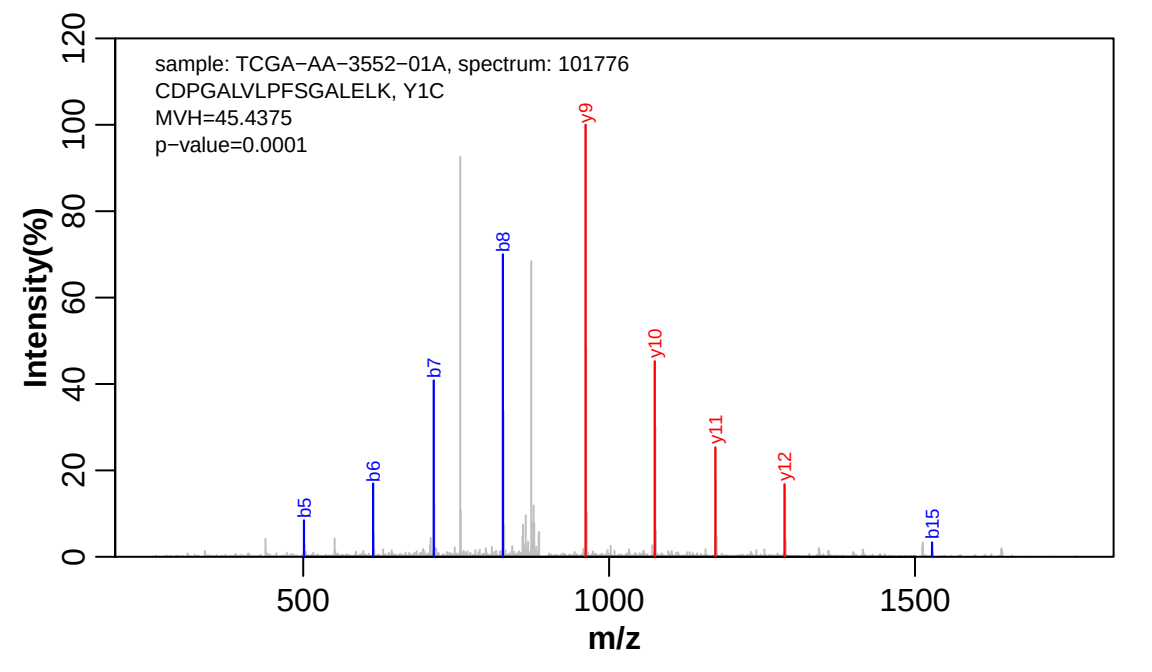

sample: TCGA−AA−3552−01A, spectrum: 65201
AAAPAPVSEAVSR, C12S
MVH=56.3104
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10-NH3
y10-H2O
y10

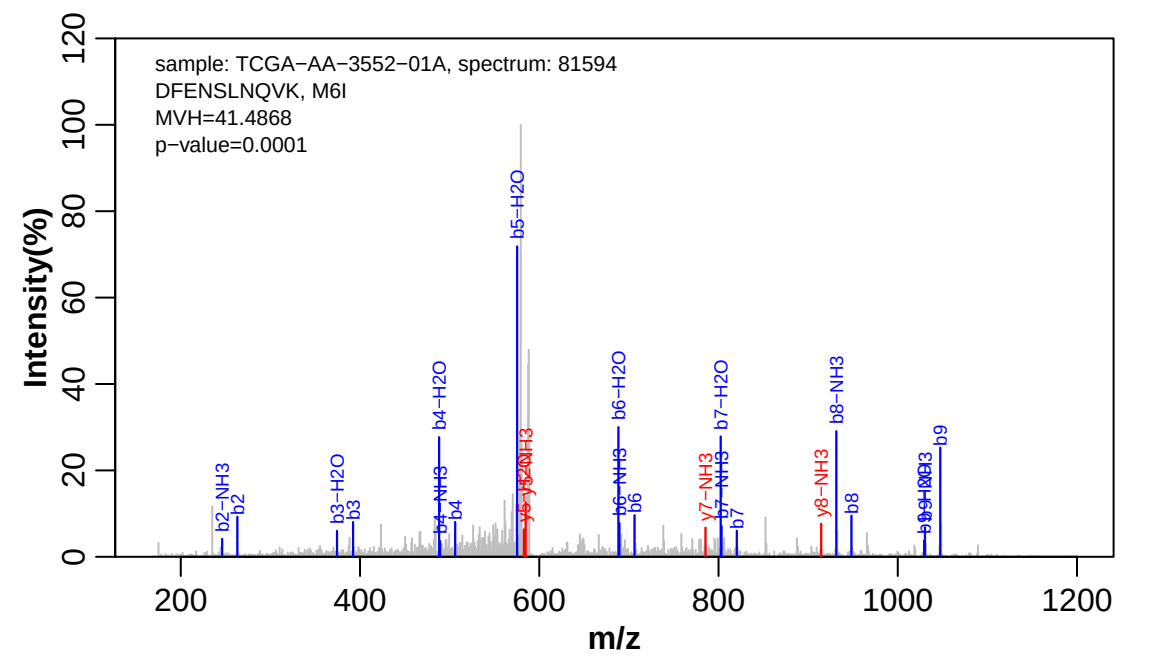

sample: TCGA−AA−3552−01A, spectrum: 44700
AAPSVTLFPPSSEELQANK, T2A
MVH=57.3900
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y14++
b5−H2O
y12++
y13++
y17++
y10
b8

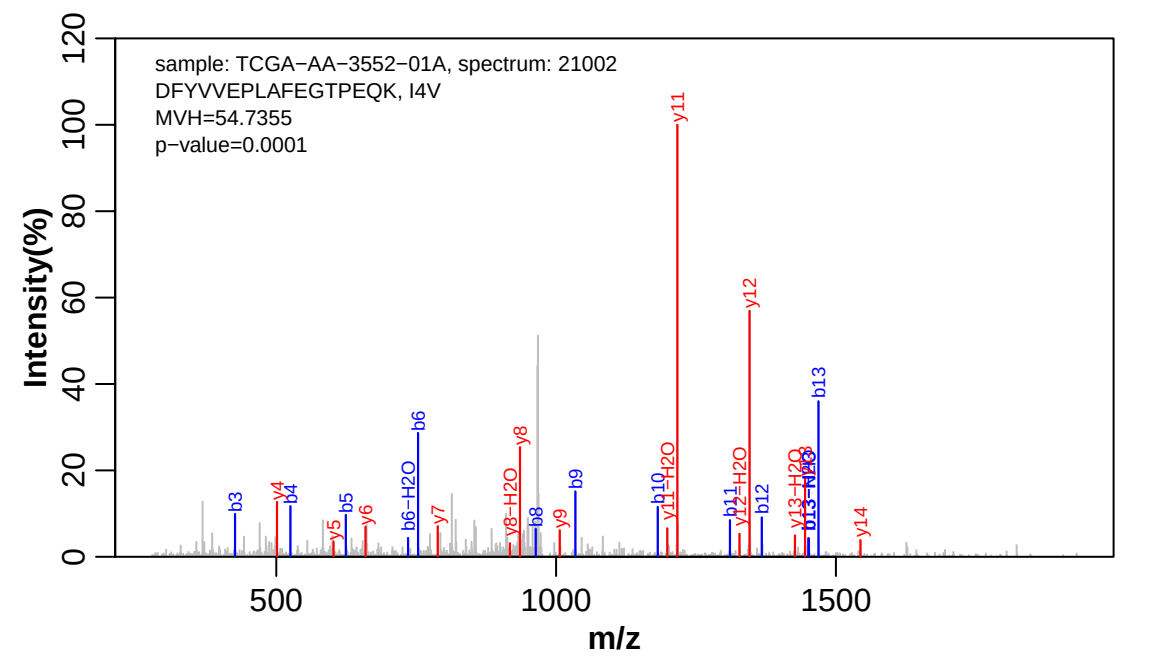

sample: TCGA−AA−3552−01A, spectrum: 8153
AGVETTTPSK, K7T
MVH=23.8639
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y3
y4
b5−NH3
b5
y5
y6
b7−NH3
b7
y7
b9

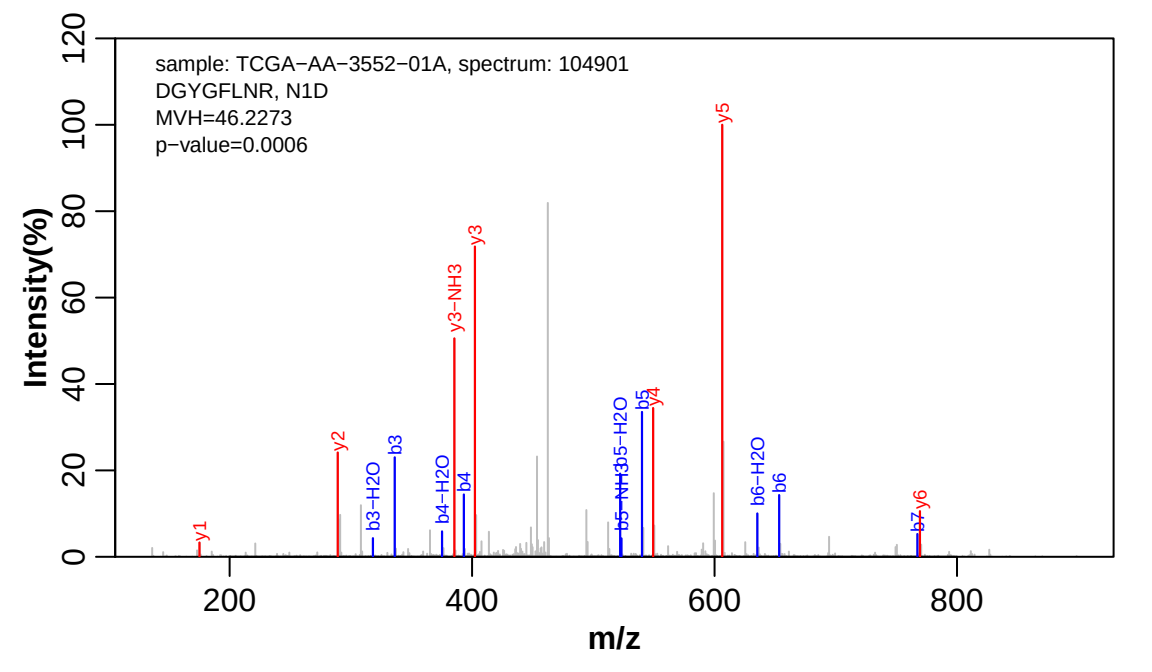

sample: TCGA−AA−3552−01A, spectrum: 43173
AQALCAVLRP, P8L
MVH=35.8586
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b8
y8
b9

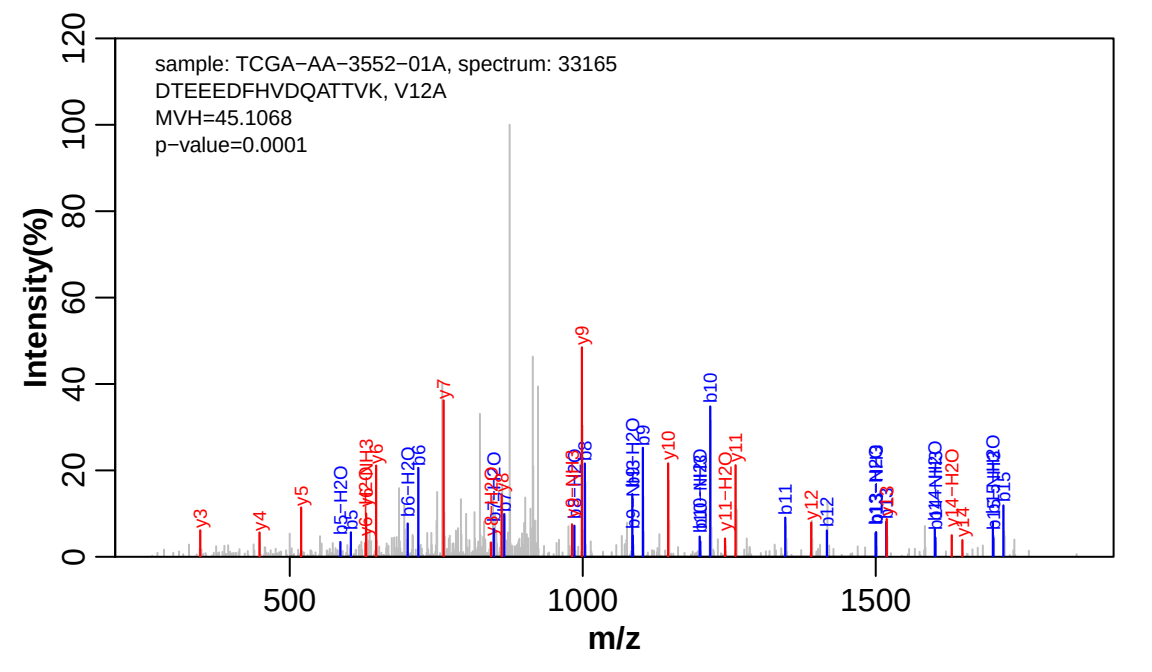

sample: TCGA−AA−3552−01A, spectrum: 27633
CDEPLNLLVR, S6N
MVH=41.4868
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b7−H2O
b7−NH3
b7
b4
b3
b3−H2O
b3−NH3
b4−NH3
y4
y2
b2
b6−NH3
y6
b6
y7−NH3
y8
b8−NH3
b8
b9

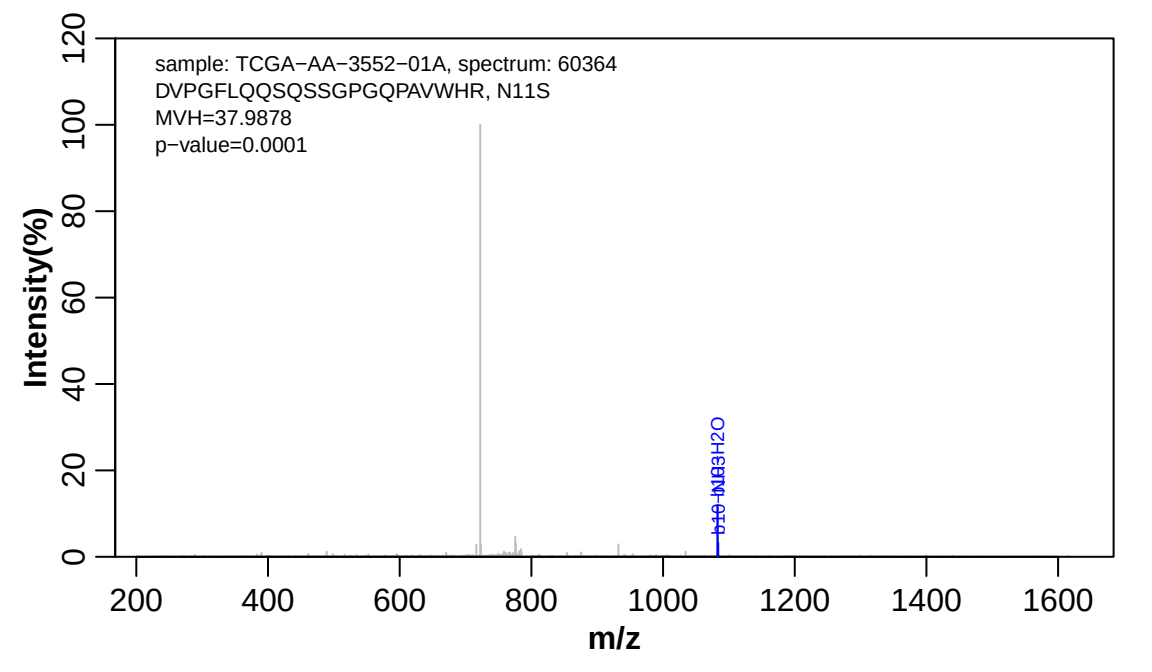

sample: TCGA−AA−3552−01A, spectrum: 101776
CDPGALVLPFSGALELK, Y1C
MVH=45.4375
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
b15

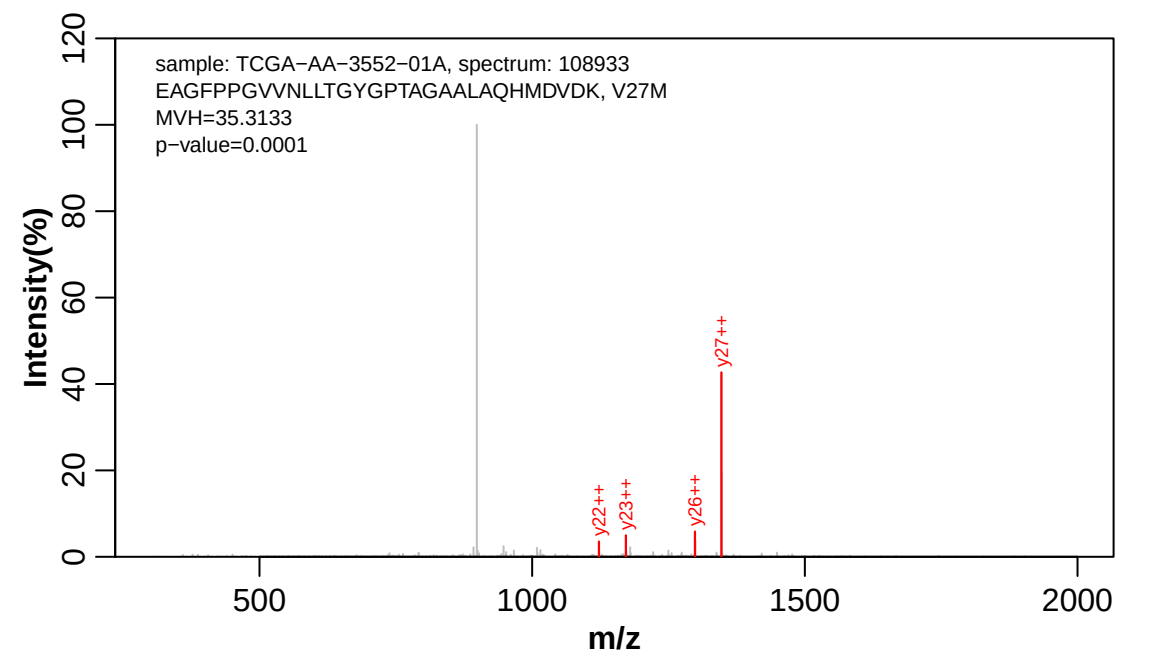

sample: TCGA−AA−3552−01A, spectrum: 81594
DFENSLNQVK, M6I
MVH=41.4868
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
b3−H2O
b3
b4−H2O
b4−NH3
b4
b5−H2O
y5−H2O
y5−NH3
b6−H2O
b6−NH3
b6
y7−NH3
b7−H2O
b7−NH3
b7
b8−NH3
y8−NH3
b8
b9

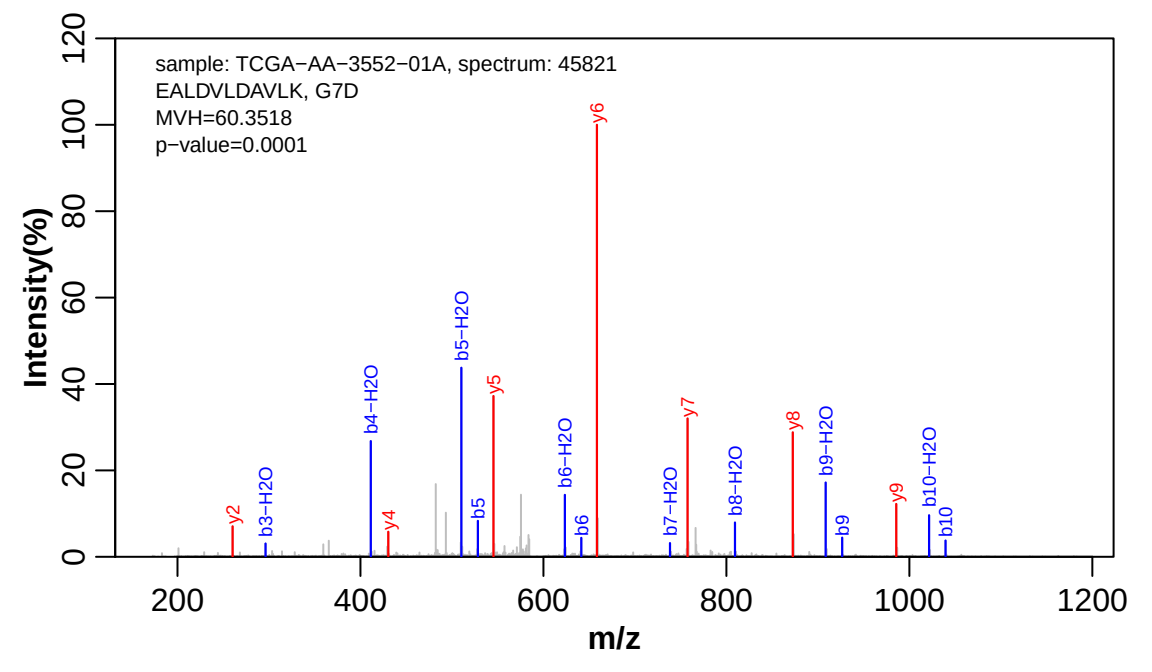

sample: TCGA−AA−3552−01A, spectrum: 21002
DFYVVEPLAFEGTPEQK, I4V
MVH=54.7355
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6−H2O
b6
y7
y8−H2O
y8
b8
y9
b9
b10
y11−H2O
y11
b11
y12−H2O
b12
y12
y13−H2O
y13−NH3
b13
y14

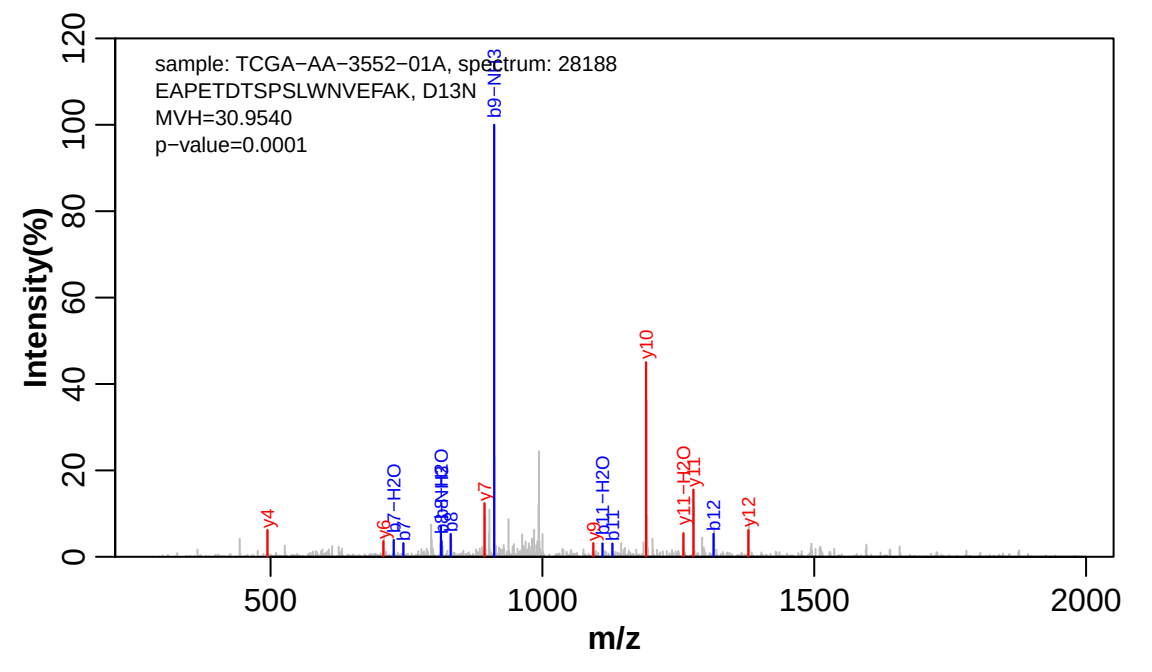

sample: TCGA−AA−3552−01A, spectrum: 104901
DGYGFLNR, N1D
MVH=46.2273
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

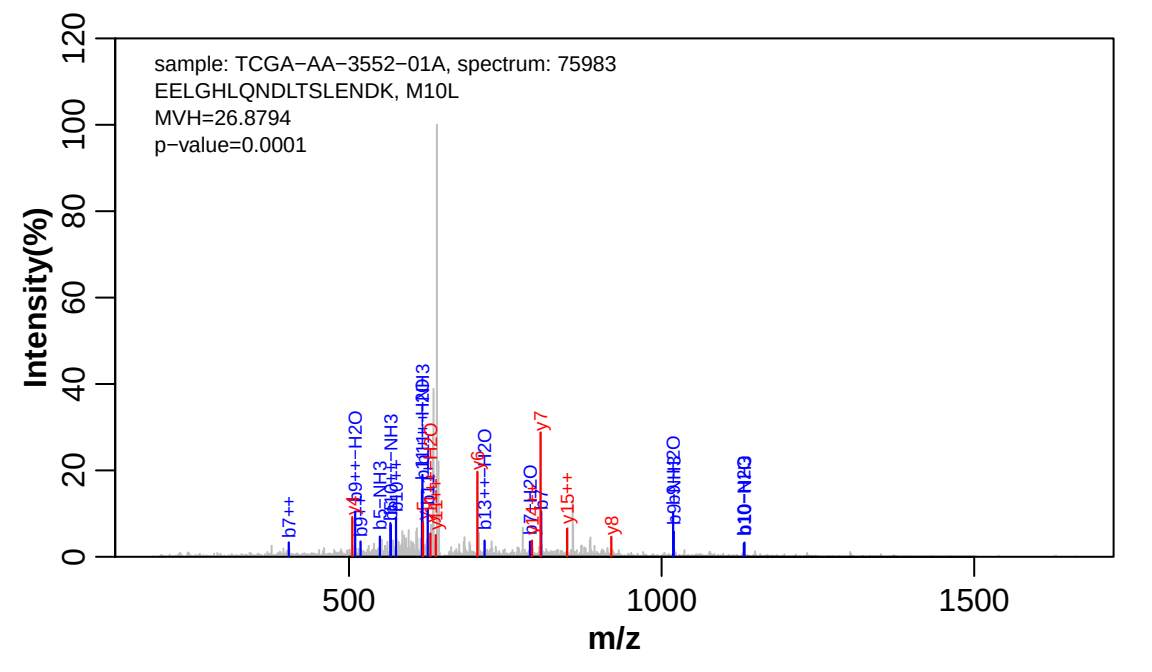

sample: TCGA−AA−3552−01A, spectrum: 33165
DTEEEDFHVDQATTVK, V12A
MVH=45.1068
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b5−H2O
b5
y6
y6−H2O−NH3
b6−H2O
b6
y7
b7−H2O
b7
y8
y8−H2O
b8−H2O
b8
y9
b9−NH3
b9−H2O
b9
y10
b10−NH3
b10
y11−H2O
y11
b11
y12
b12
b13−NH3
y13
b14−NH3
b14−H2O
y14−H2O
y14
b15−NH3
b15−H2O
b15

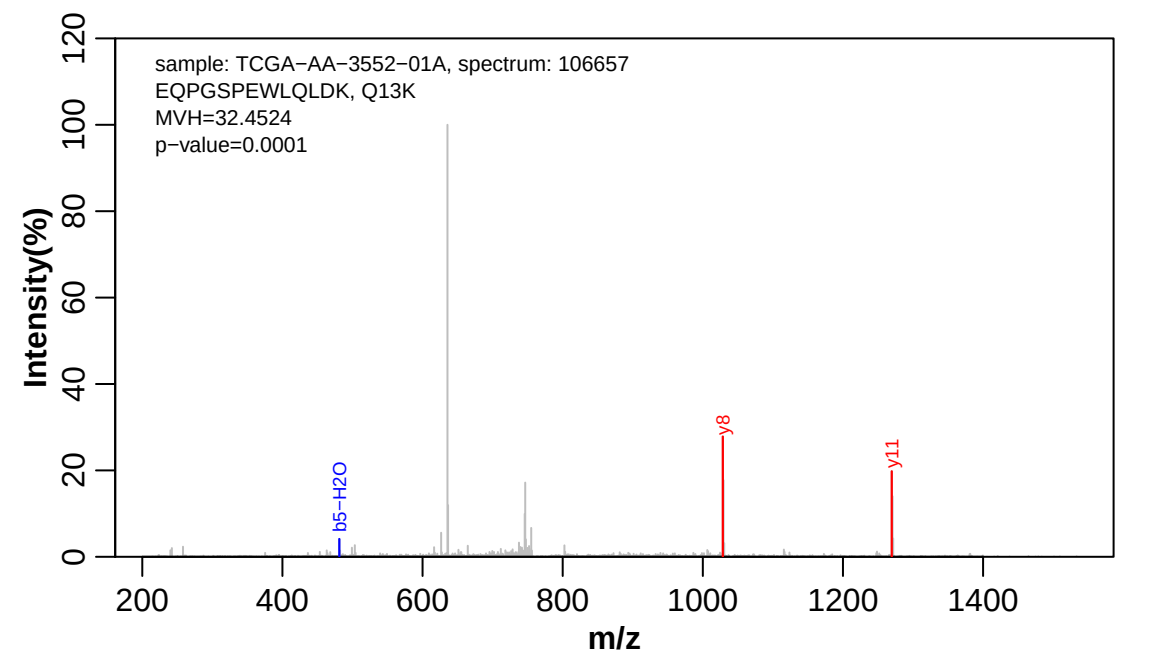

sample: TCGA−AA−3552−01A, spectrum: 60364
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=37.9878
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10−NH3
b10−H2O

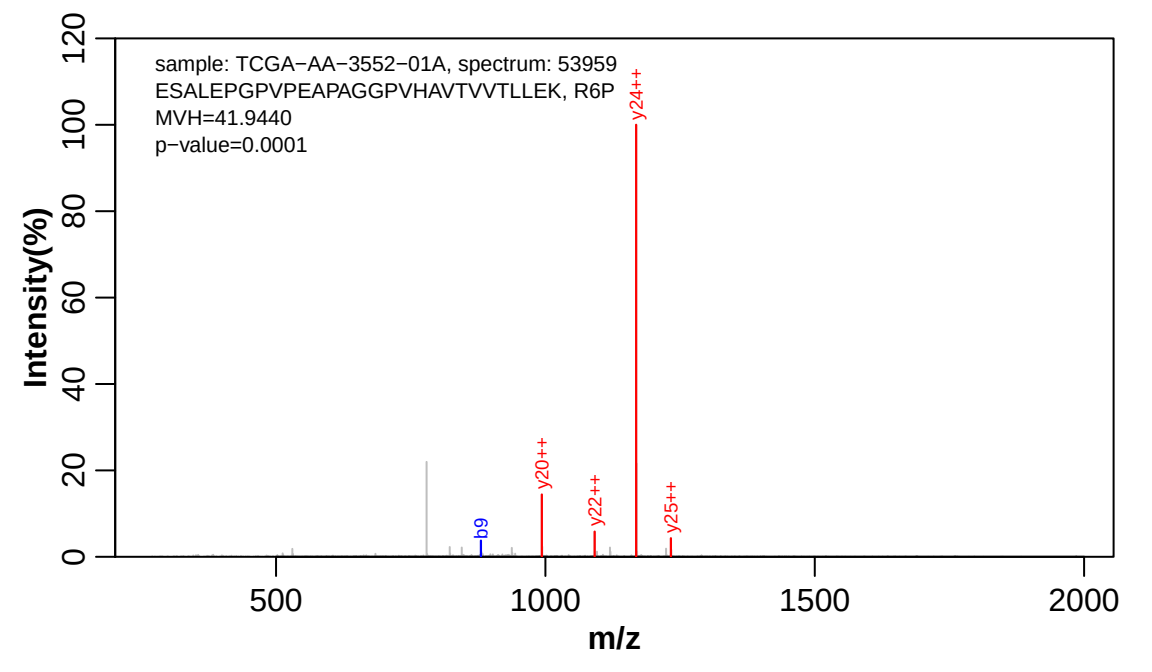

sample: TCGA−AA−3552−01A, spectrum: 108933
EAGFPPGVVNLLTGYGPTAGAALAQHMDVDK, V27M
MVH=35.3133
p−value=0.0001
y22++
y23++
y26++
y27++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

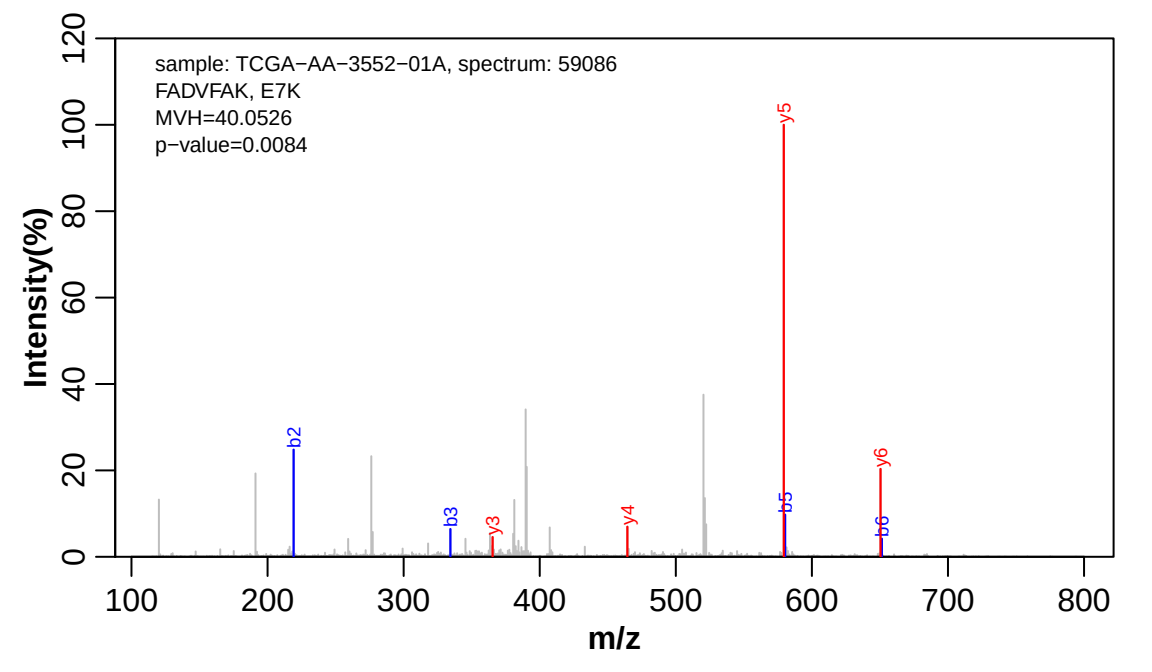

sample: TCGA−AA−3552−01A, spectrum: 45821
EALDVLDAVLK, G7D
MVH=60.3518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

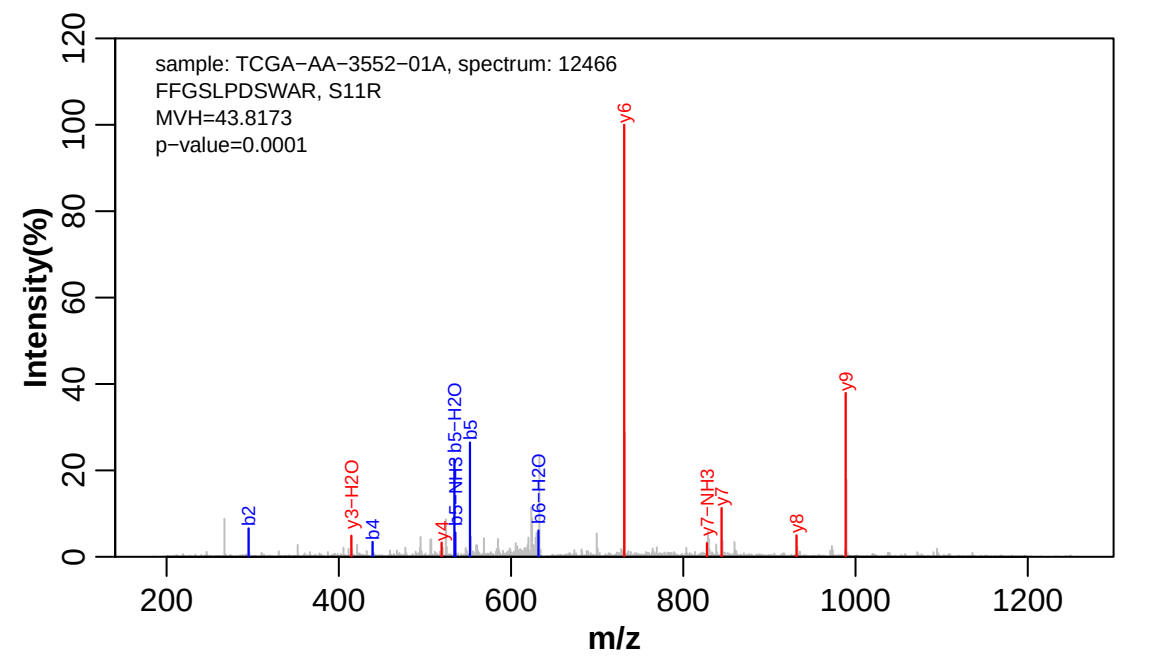

sample: TCGA−AA−3552−01A, spectrum: 28188
EAPETDTSPSLWNVEFAK, D13N
MVH=30.9540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y6
b7−H2O
b7
b8−NH3
b8−H2O
b8
y7
b9−NH3
y8
b11−H2O
b11
y10
y11−H2O
y11
b12
y12

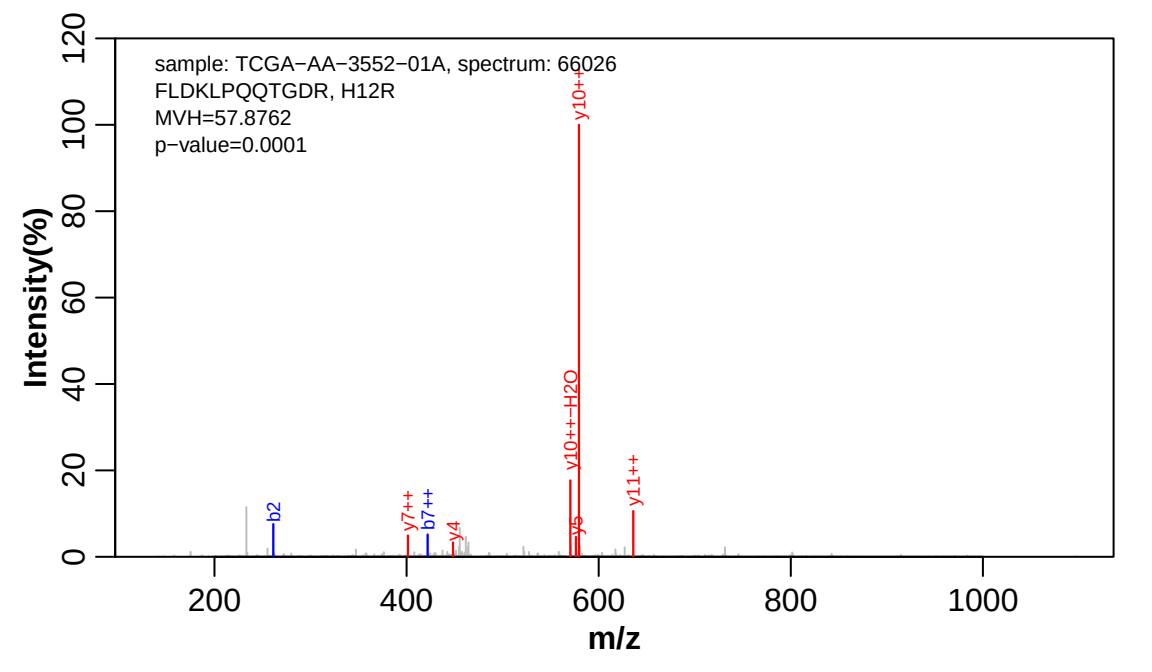

sample: TCGA−AA−3552−01A, spectrum: 75983
EELGHLQNDLTSLENDK, M10L
MVH=26.8794
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
y15++
y8
y7
b10−NH3

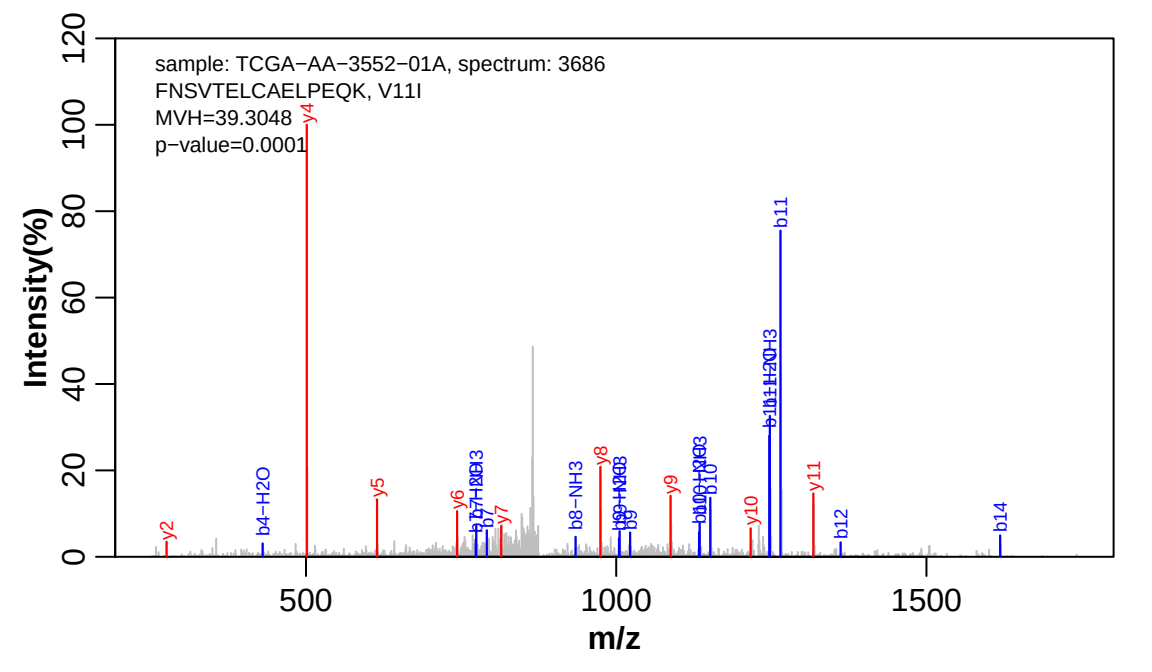

sample: TCGA−AA−3552−01A, spectrum: 106657
EQPGSPEWLQLDK, Q13K
MVH=32.4524
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y8
y11

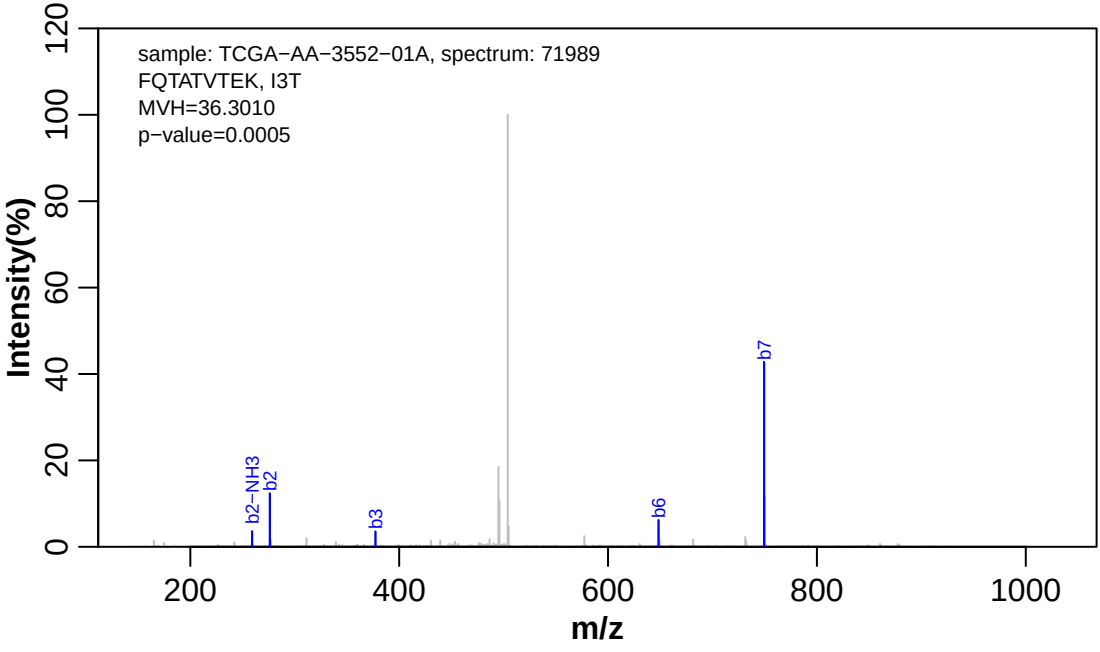

sample: TCGA−AA−3552−01A, spectrum: 53959
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=41.9440
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

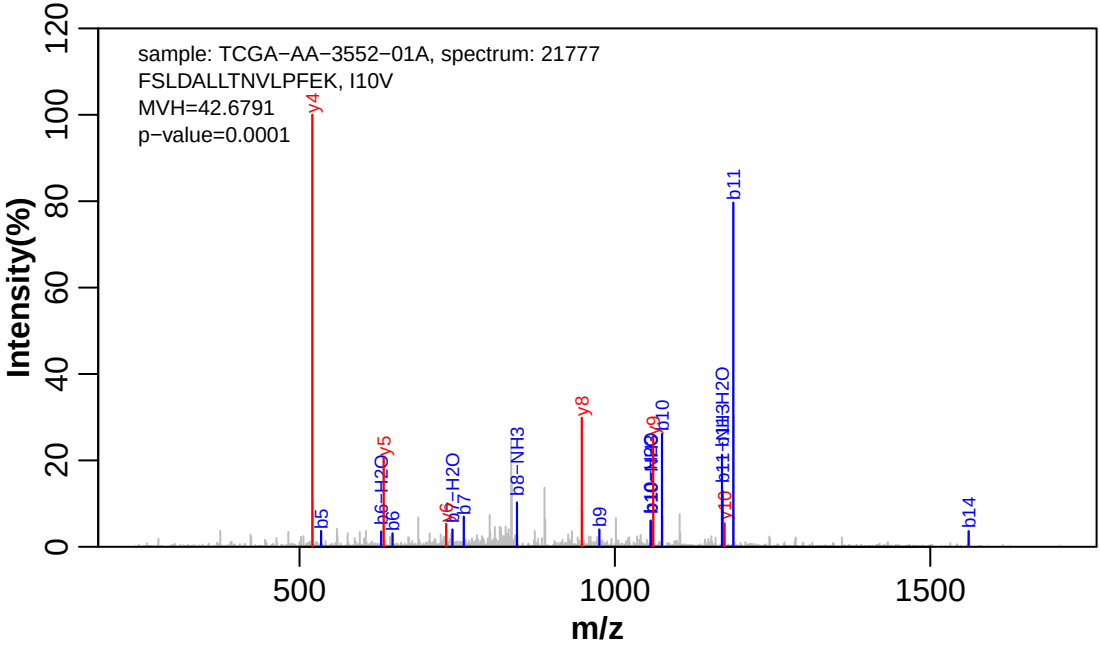

sample: TCGA−AA−3552−01A, spectrum: 59086
FADVFAK, E7K
MVH=40.0526
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

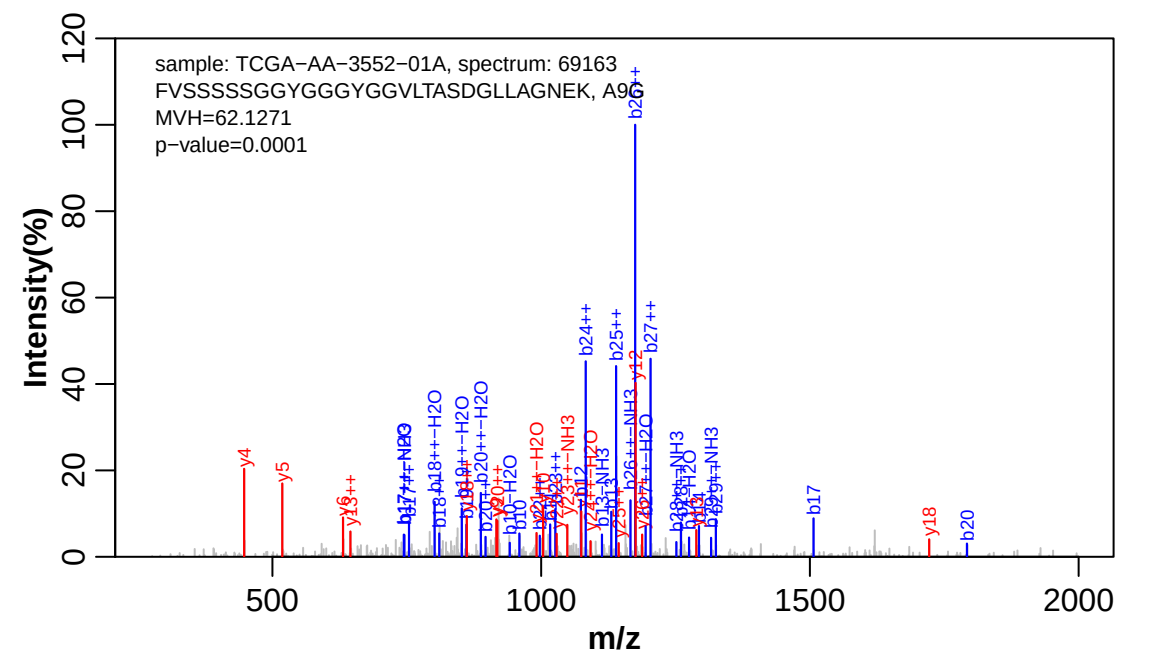

sample: TCGA−AA−3552−01A, spectrum: 12466
FFGSLPDSWAR, S11R
MVH=43.8173
p−value=0.0001
Intensity(%)
m/z
y6
y9
y8
y7
y7−NH3
y3−H2O
y4
b2
b4
b5−NH3
b5−H2O
b5
b6−H2O

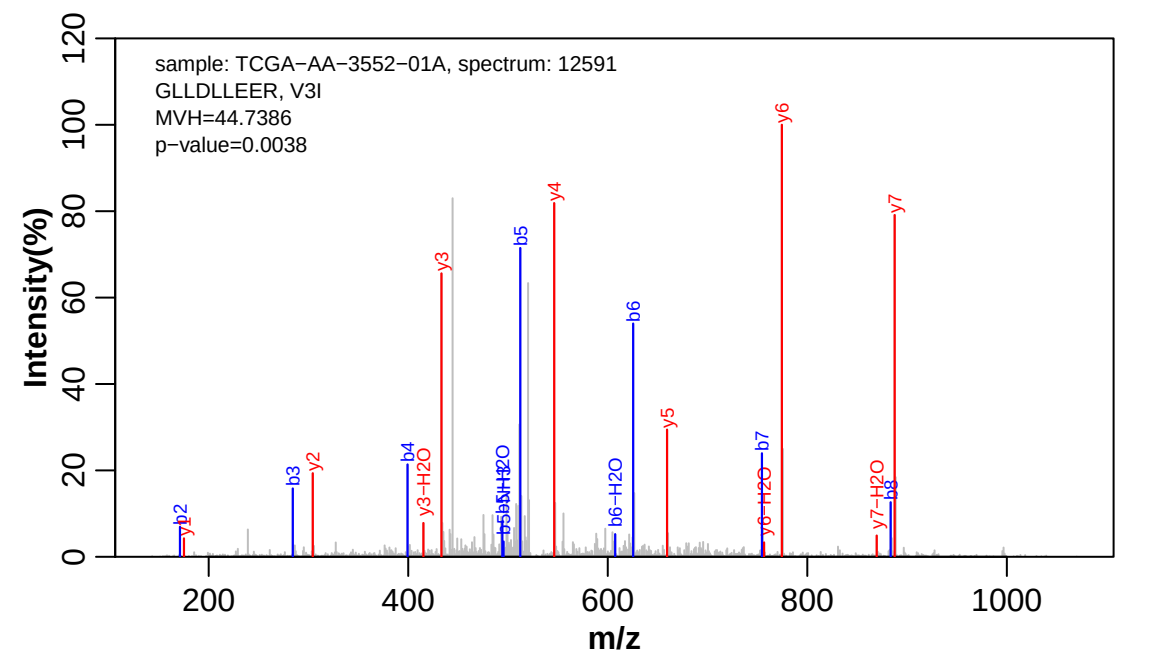

sample: TCGA−AA−3552−01A, spectrum: 66026
FLDKLPQQTGDR, H12R
MVH=57.8762
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y7++
b7++
y4
y8
y10++−H2O
y10++
y11++

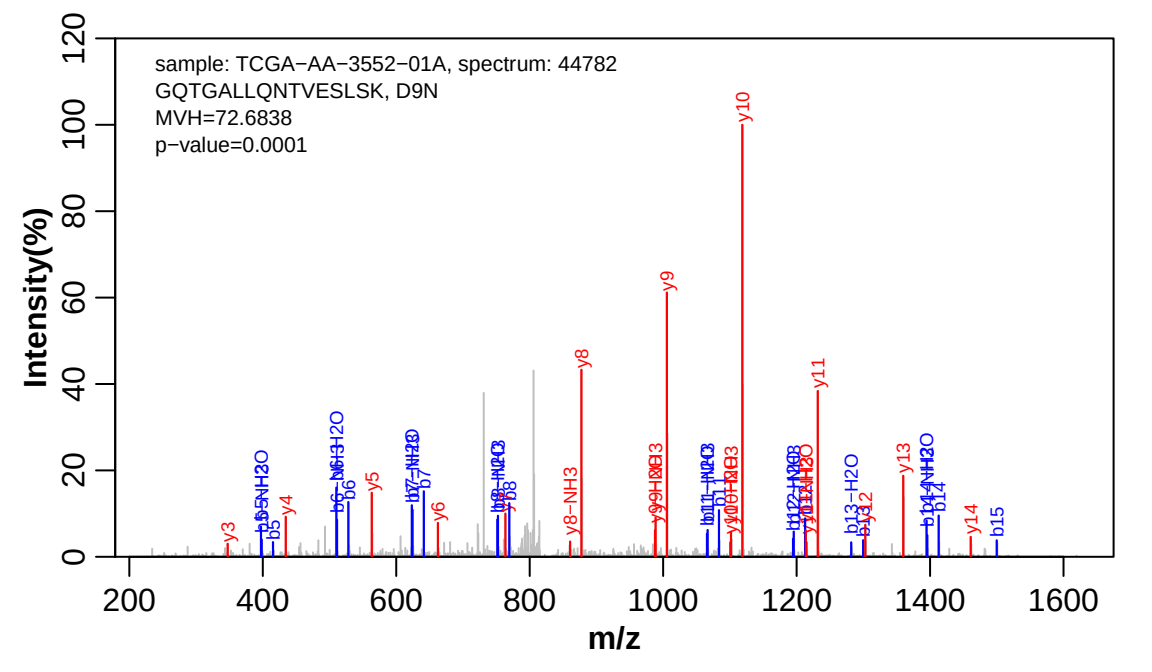

sample: TCGA−AA−3552−01A, spectrum: 3686
FNSVTELCAELPEQK, V11I
MVH=39.3048
p−value=0.0001
Intensity(%)
m/z
y4
y2
b4−H2O
y5
y6
y7
b8−NH3
y8
y9
y10
b10
b11
y11
b12
b14

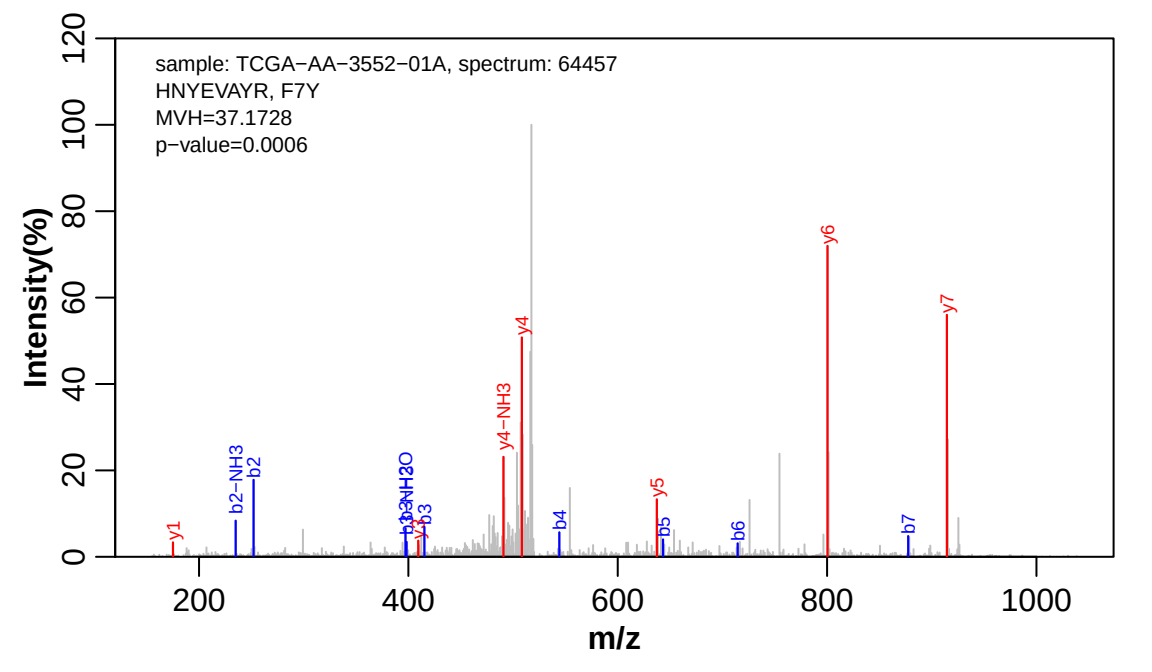

sample: TCGA−AA−3552−01A, spectrum: 71989
FQTATVTEK, I3T
MVH=36.3010
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b6
b7

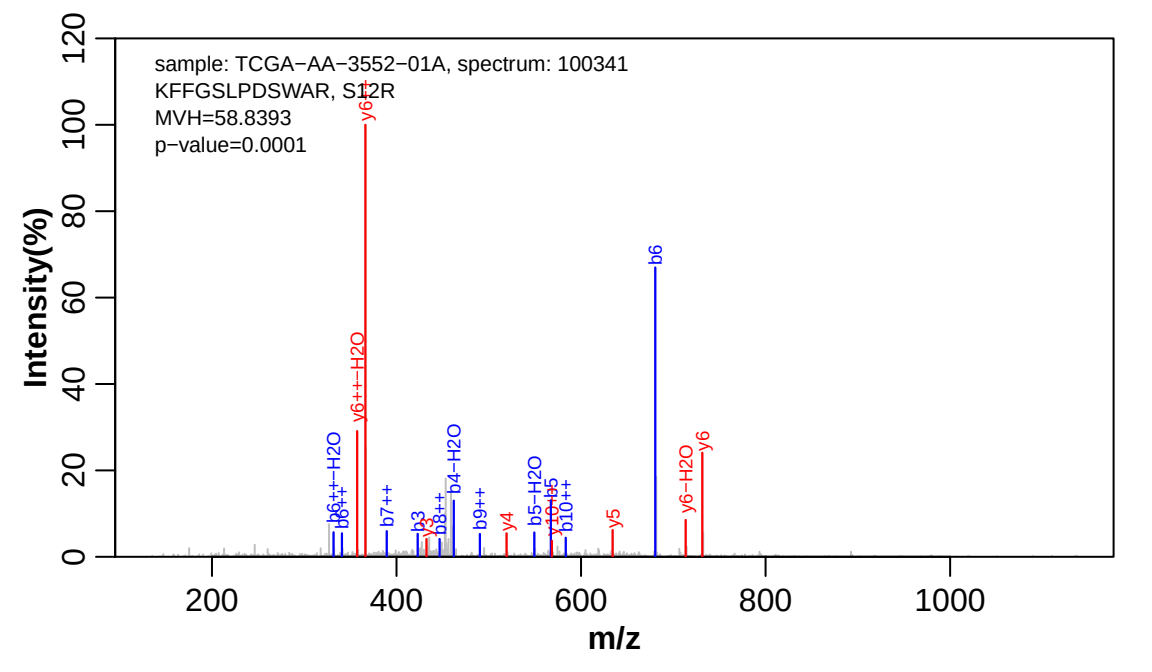

sample: TCGA−AA−3552−01A, spectrum: 21777
FSLDALLTNVLPFEK, I10V
MVH=42.6791
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
y5
b6
b6−H2O
y6
b7
b7−H2O
b8−NH3
y8
b9
b10
b10−NH3
b11
b11−H2O
b14

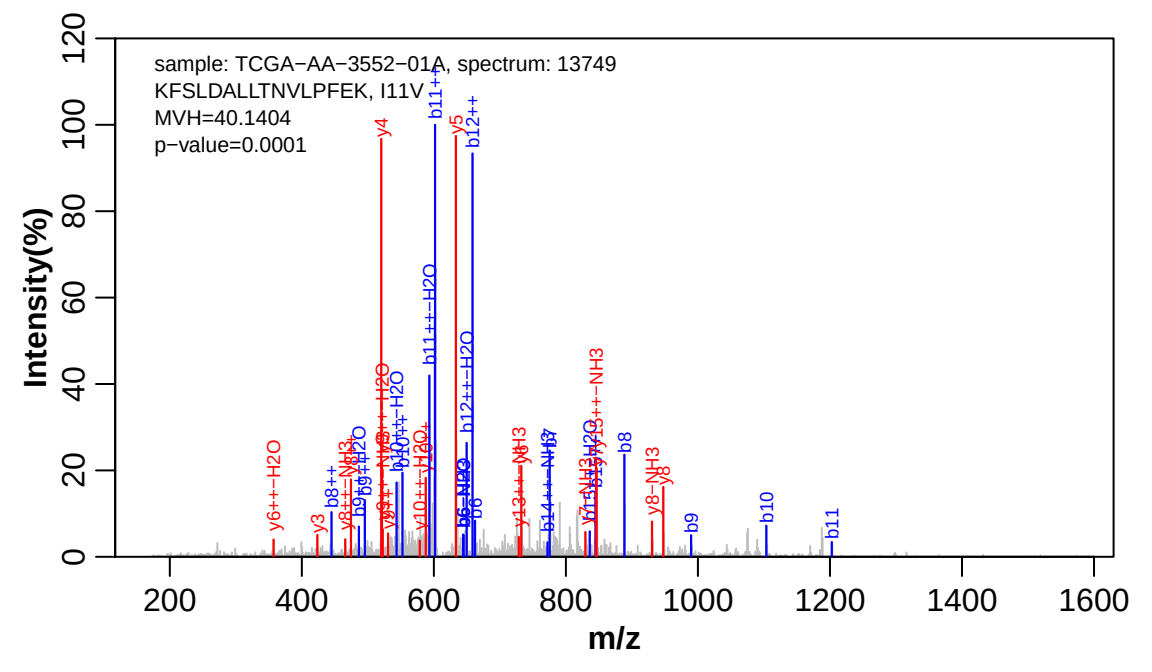

sample: TCGA−AA−3552−01A, spectrum: 69163
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=62.1271
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b26++
b24++
b25++
b27++
y4
y5
y6
y13++
b17
y18
b20

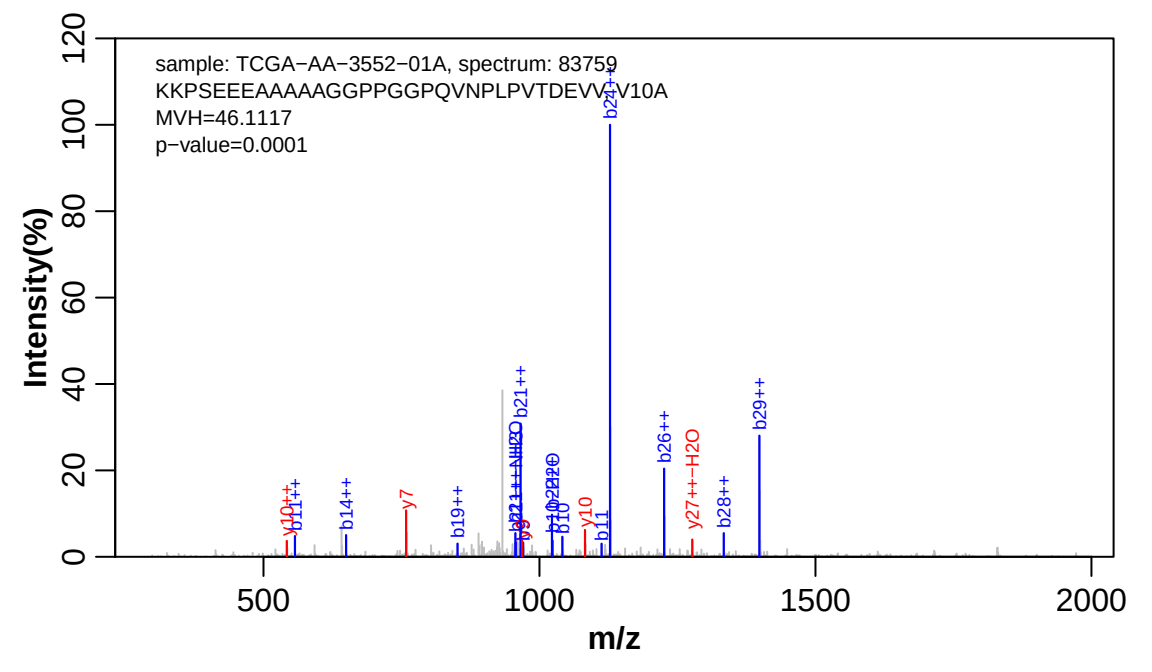

sample: TCGA−AA−3552−01A, spectrum: 12591
GLLDLLEER, V3I
MVH=44.7386
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
b4
y3−H2O
y3
b5
y4
b6
b6−H2O
y5
y6−H2O
b7
y6
y7−H2O
b8
y7

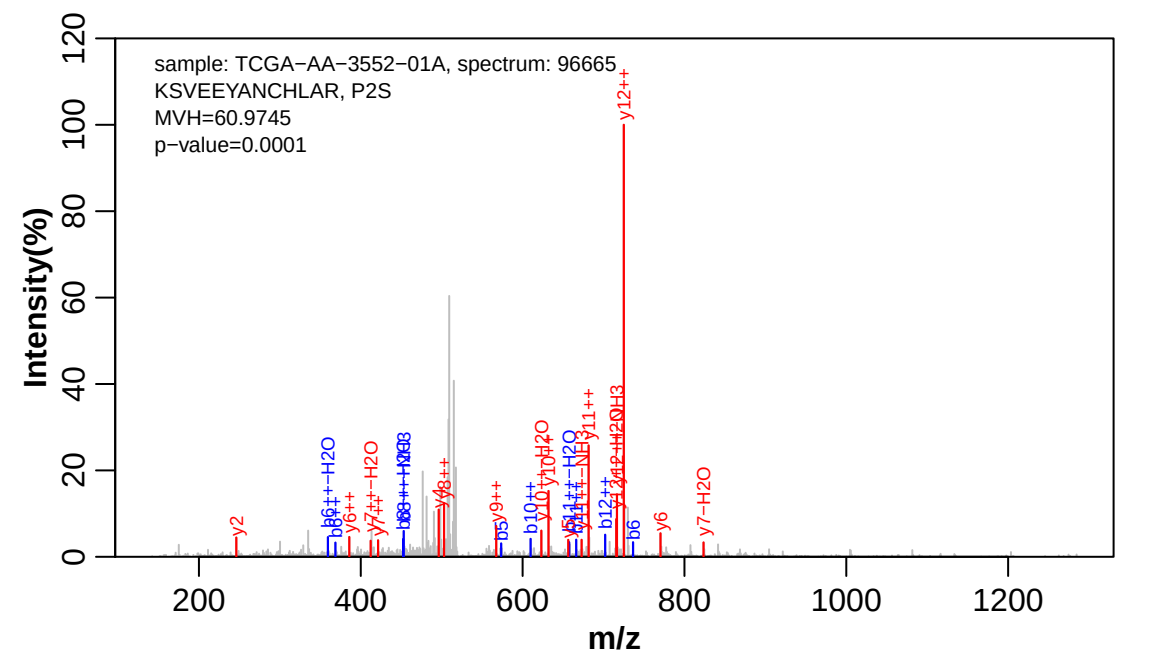

sample: TCGA−AA−3552−01A, spectrum: 44782
GQTGALLQNTVESLSK, D9N
MVH=72.6838
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y11
y13
y8−NH3
y5
y4
y6
y3
b13−H2O
b15
y14

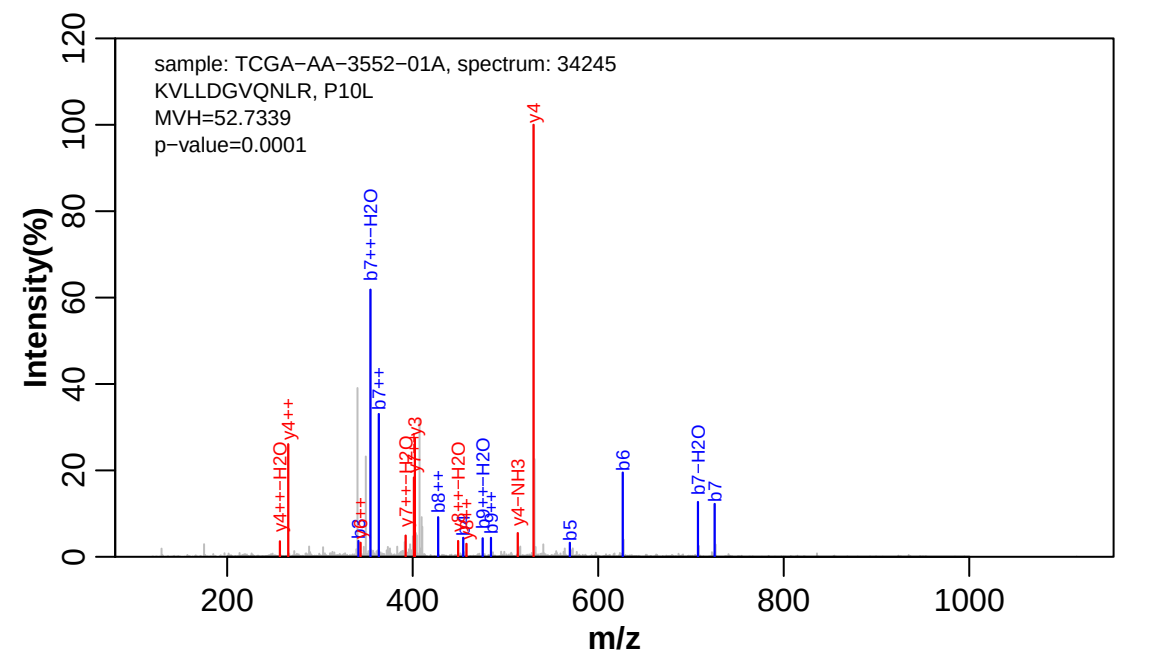

sample: TCGA−AA−3552−01A, spectrum: 64457
HNYEVAYR, F7Y
MVH=37.1728
p−value=0.0006
Intensity(%)
m/z
y1
b2−NH3
b2
b3
y4−NH3
y4
y5
b4
b5
b6
y6
b7
y7

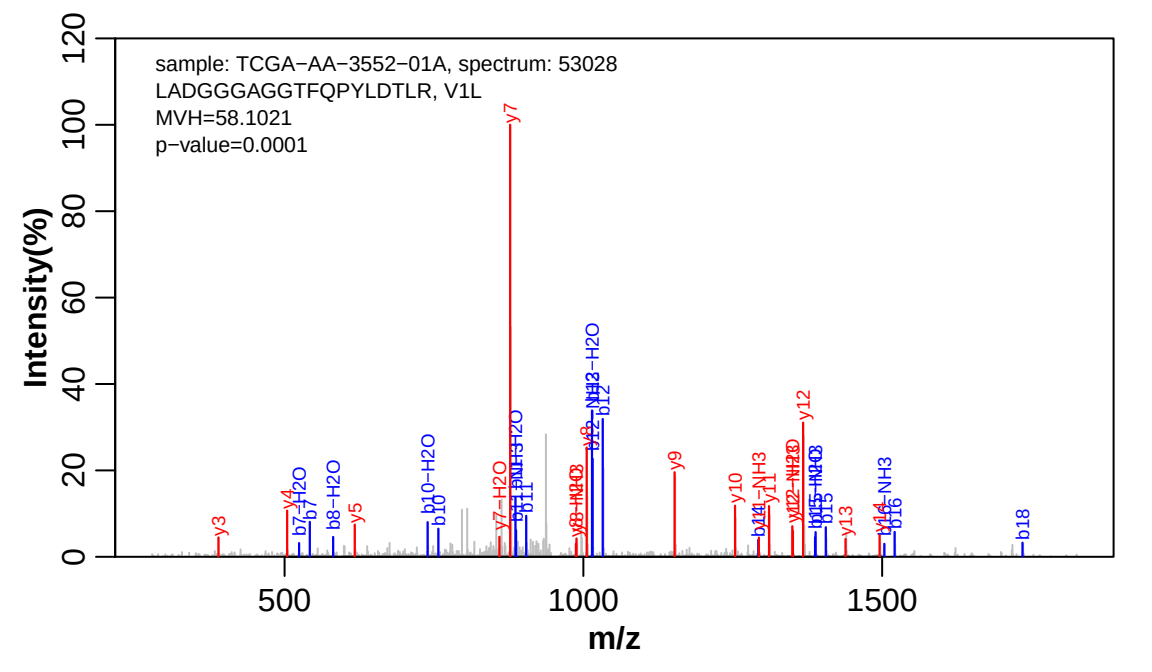

sample: TCGA−AA−3552−01A, spectrum: 100341
KFFGSLPDSWAR, S12R
MVH=58.8393
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b7++
b3
y3
b8++
b4−H2O
b9++
y4
b5−H2O
y10++
b10++
y5
b6
y6−H2O
y6

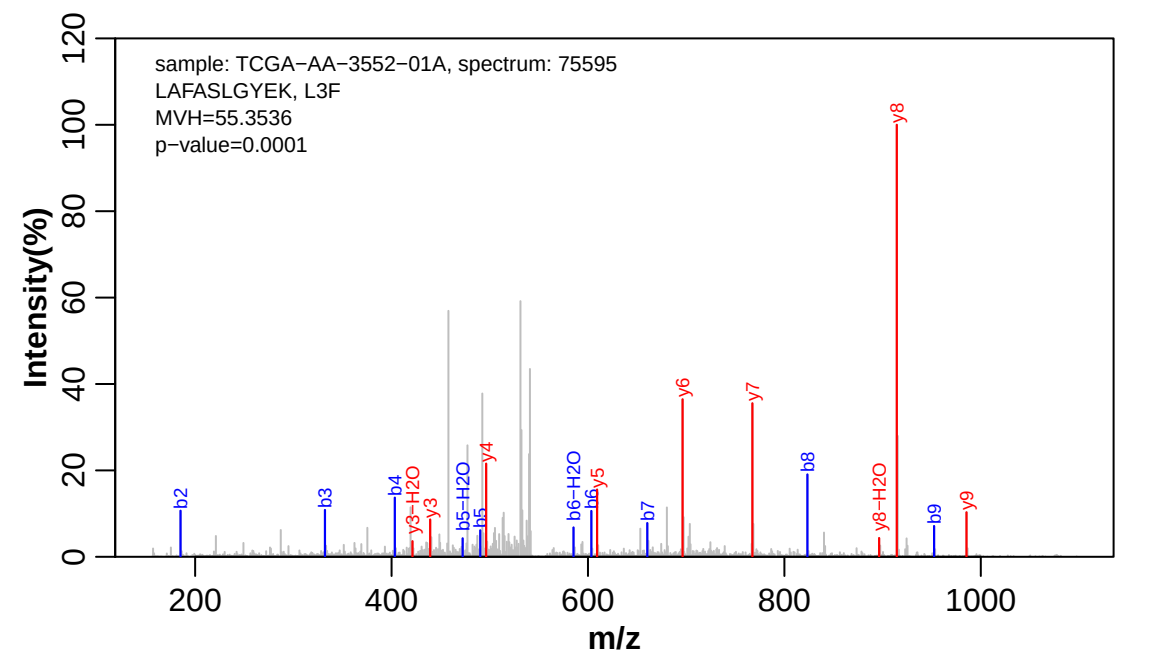

sample: TCGA−AA−3552−01A, spectrum: 13749
KFSLDALLTNVLPFEK, I11V
MVH=40.1404
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
b11++
y5
b12++
b11++−H2O
b12++−H2O
y6++−H2O
y3
b8++
b10++−H2O
y13++−NH3
b8
y8−NH3
y8
b9
b10
b11

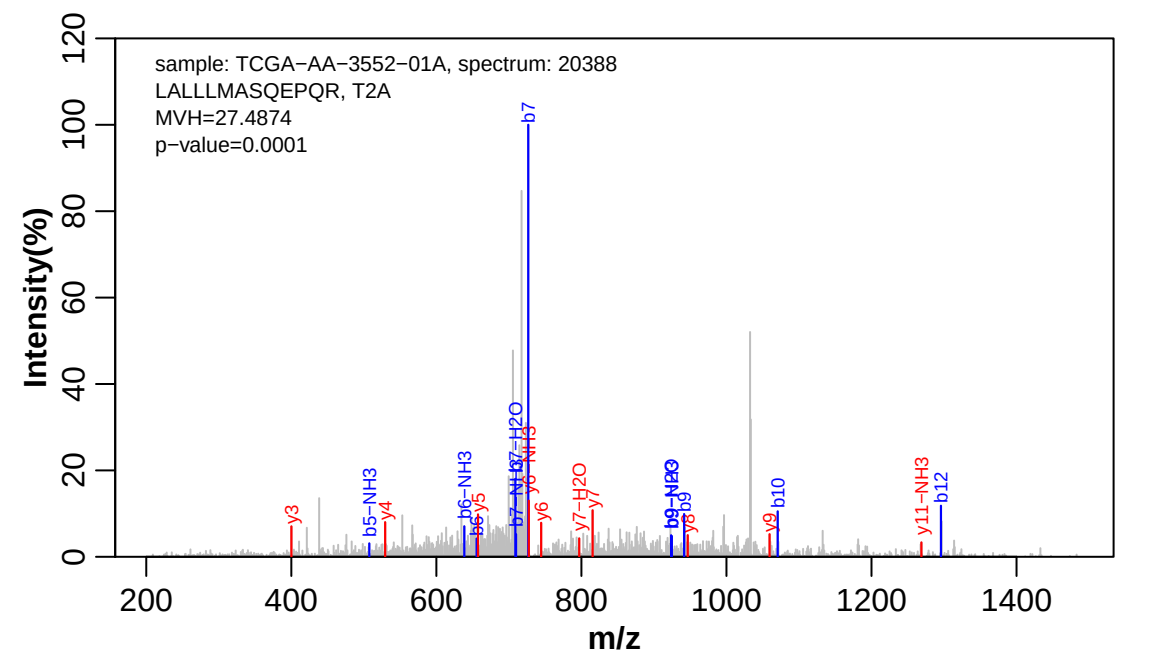

sample: TCGA−AA−3552−01A, spectrum: 83759
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=46.1117
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
b11++
b14++
y7
b19++
b21++−H2O
y9
b10++
b10
y10
b11
b26++
y27++−H2O
b28++
b29++

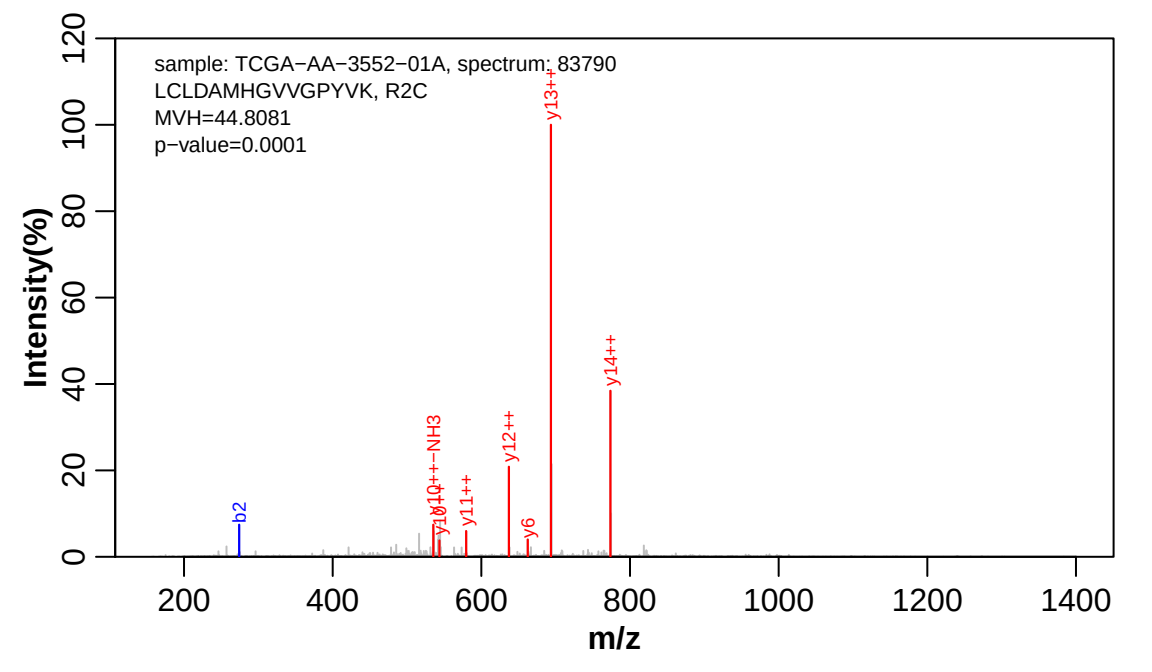

sample: TCGA−AA−3552−01A, spectrum: 96665
KSVEEYANCHLAR, P2S
MVH=60.9745
p−value=0.0001
Intensity(%)
m/z
y12++
y2
y6++
y7++−H2O
y8++
b9++
y9++
b10++
y10++
y10++−H2O
y11++
y11++−H2O
y11++−NH3
b12++
b6
y6
y7−H2O

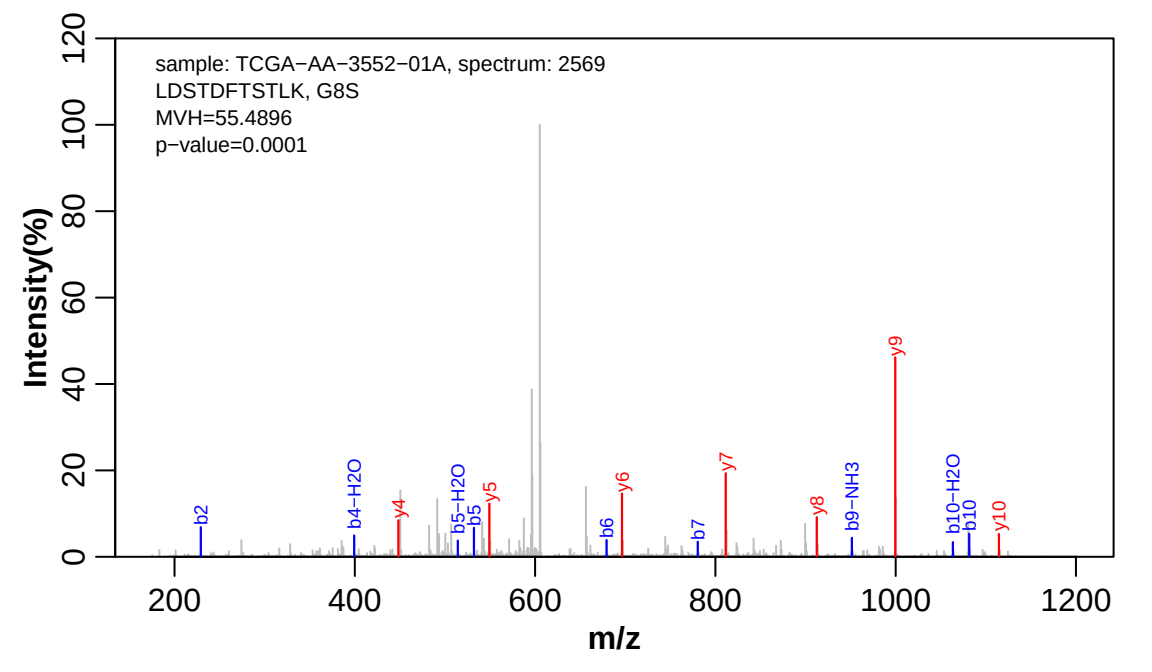

sample: TCGA−AA−3552−01A, spectrum: 34245
KVLLDGVQNLR, P10L
MVH=52.7339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y4
b7++−H2O
b7++
y4++
y4++−H2O
y7++−H2O
y7++
y3
b8++
b8++−H2O
b9++−H2O
y4−NH3
b5
b6
b7−H2O
b7

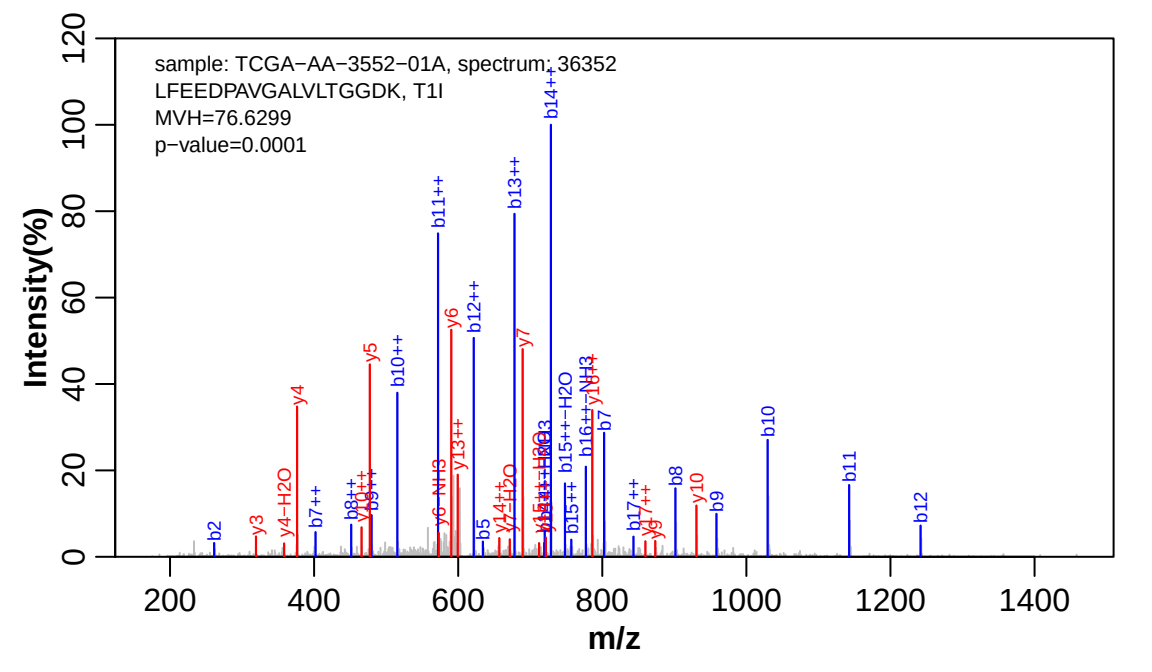

sample: TCGA−AA−3552−01A, spectrum: 53028
LADGGGAGGTFQPYLDTLR, V1L
MVH=58.1021
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b7
b8−H2O
y5
b10−H2O
b10
y7−H2O
y9
y10
y12
y13
b18

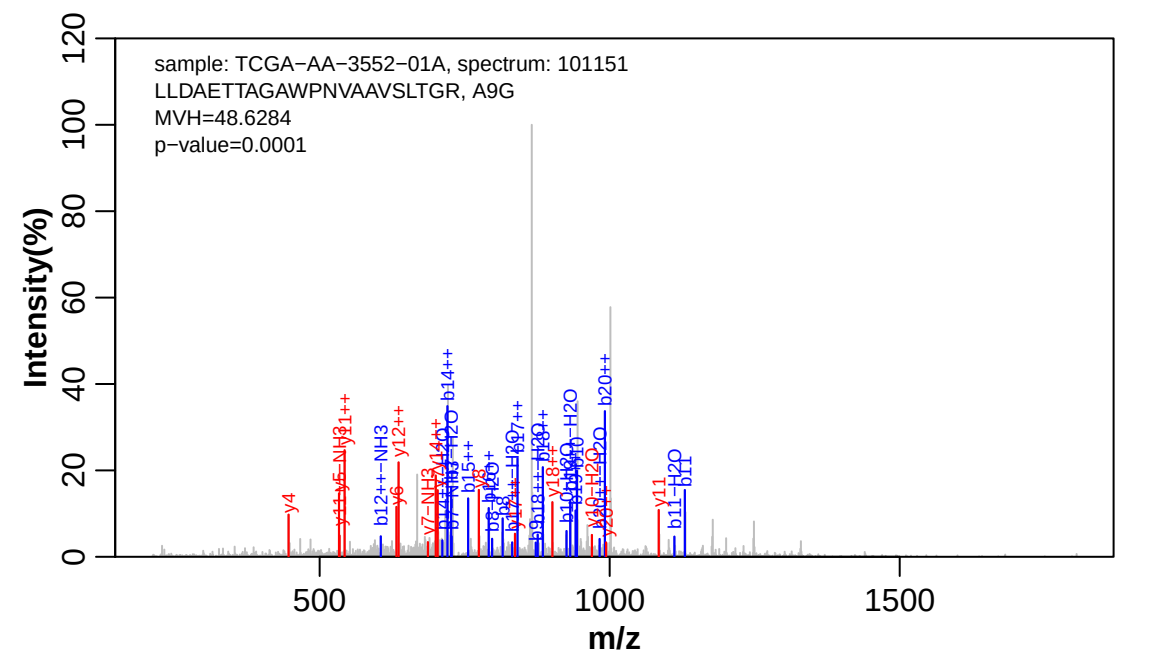

sample: TCGA−AA−3552−01A, spectrum: 75595
LAFASLGYEK, L3F
MVH=55.3536
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
y3−H2O
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7
y6
y7
b8
y8−H2O
y8
b9
y9

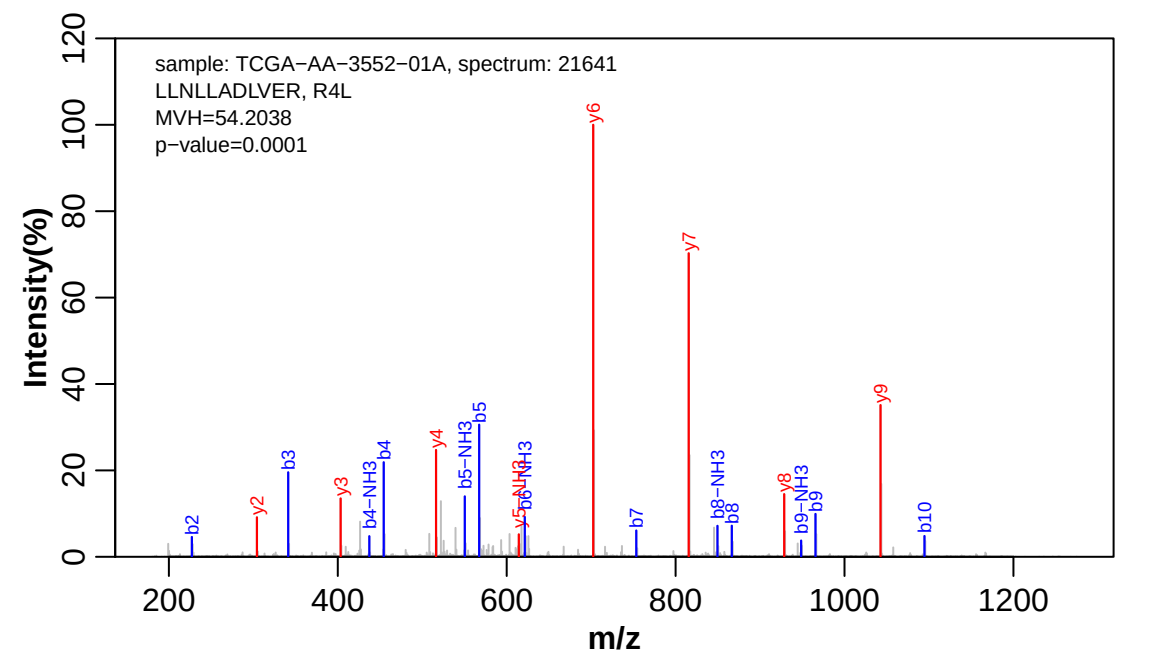

sample: TCGA−AA−3552−01A, spectrum: 20388
LALLLMASQEPQR, T2A
MVH=27.4874
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7
y3
b5−NH3
y4
b6−NH3
b6
y5
b7−NH3
b7−H2O
y6−NH3
y6
y7−H2O
y7
b8−NH3
b8−H2O
b8
b9
y8
y9
b10
y11−NH3
b12

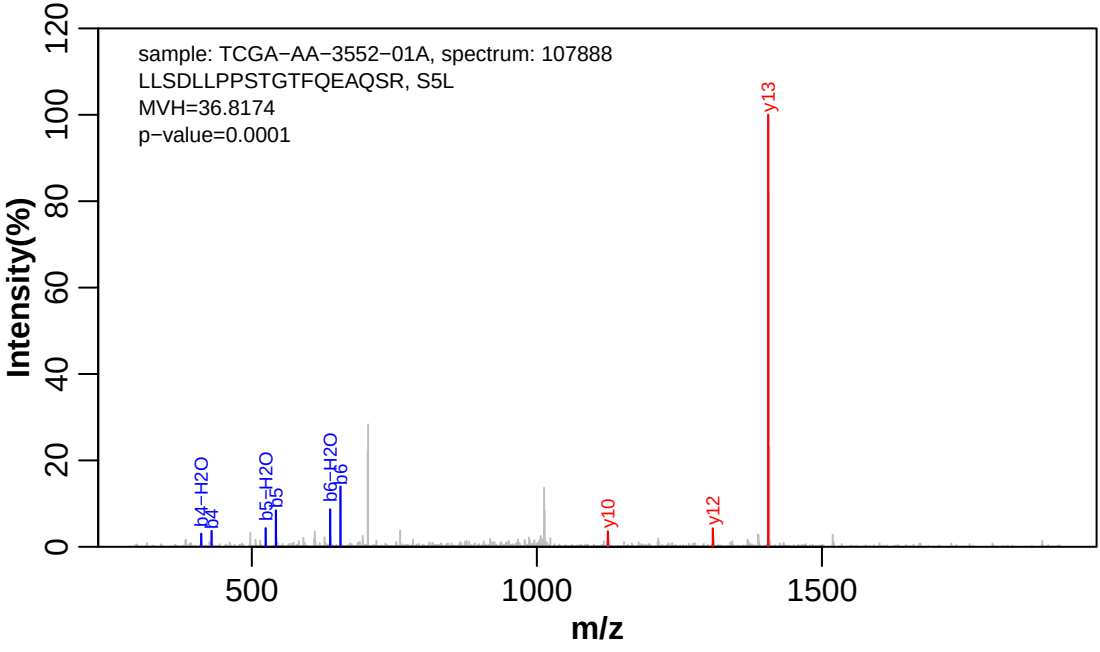

sample: TCGA−AA−3552−01A, spectrum: 83790
LCLDAMHGVVGPYVK, R2C
MVH=44.8081
p−value=0.0001
Intensity(%)
m/z
b2
y10++−NH3
y10++
y11++
y12++
y6
y13++
y14++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

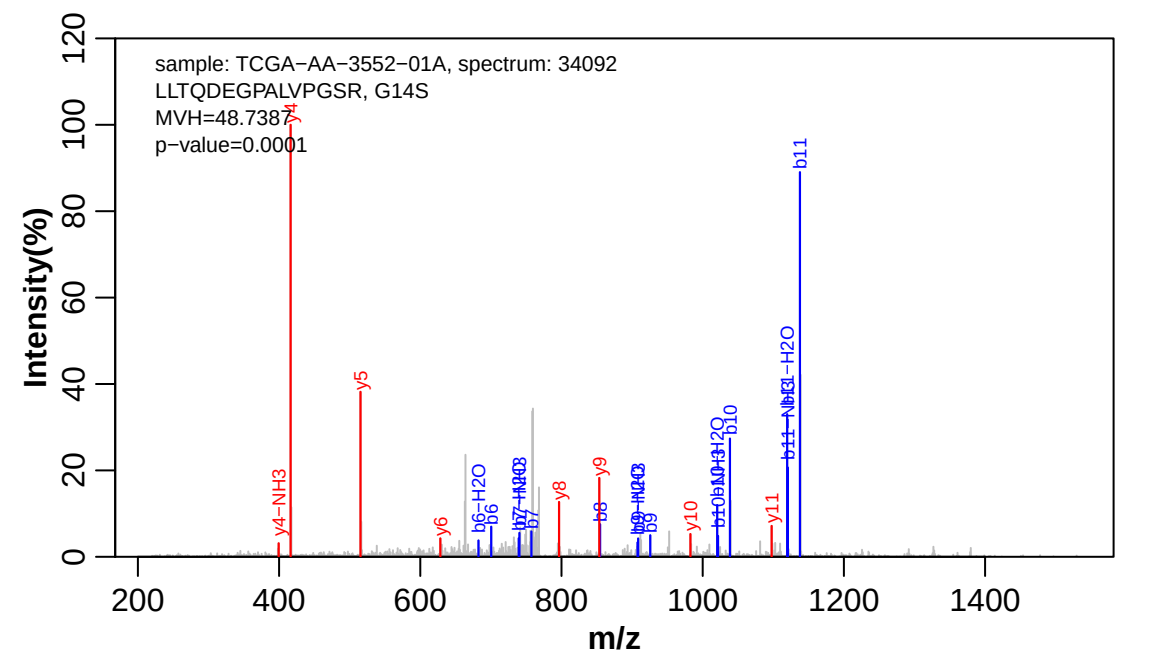

sample: TCGA−AA−3552−01A, spectrum: 2569
LDSTDFTSTLK, G8S
MVH=55.4896
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6
y6
b7
y7
y8
b9−NH3
y9
b10−H2O
b10
y10

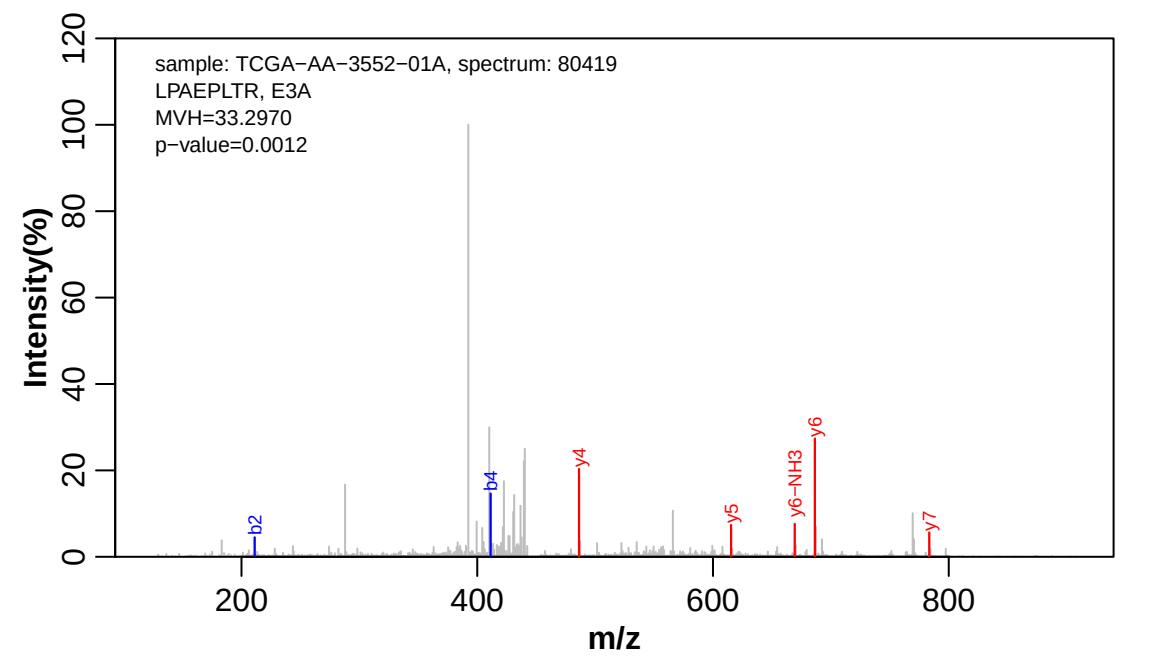

sample: TCGA−AA−3552−01A, spectrum: 36352
LFEEDPAVGALVLTGGDK, T1I
MVH=76.6299
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4−H2O
y4
b7++
b8++
y8++
y5
b10++
y6−NH3
y6
y13++
b12++
b11++
b5
y14++
y7−H2O
y7
b13++
b14++
b15++−H2O
b15++
b16++−NH3
y10++
b7
b17++
y9++
b8
y10
b9
b10
b11
b12

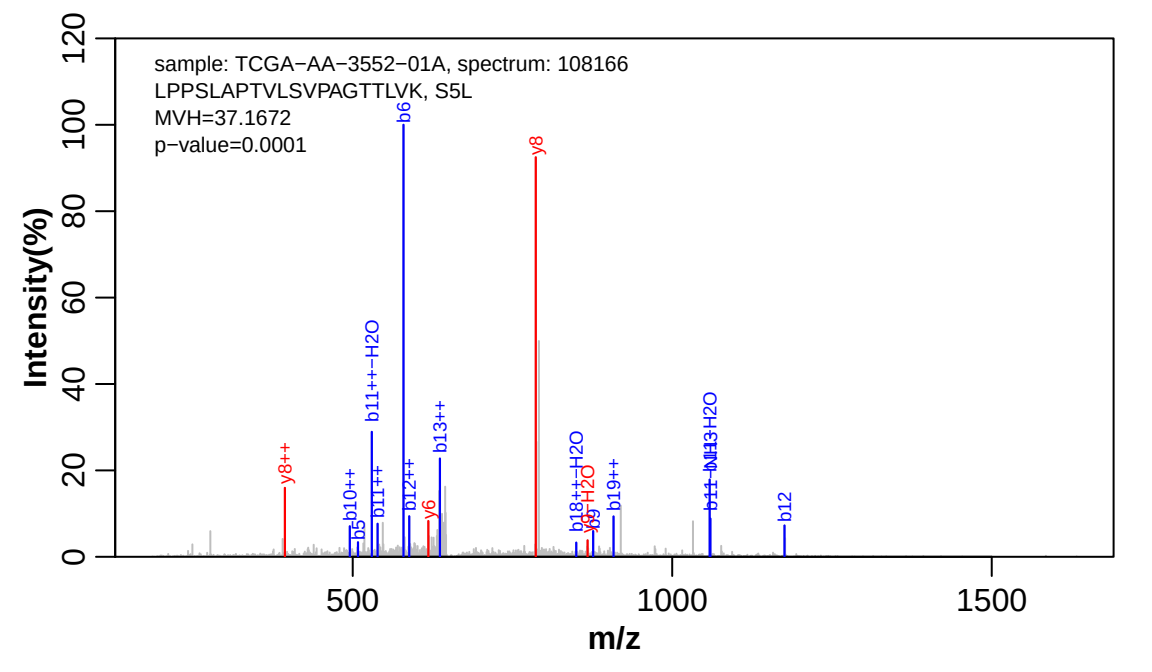

sample: TCGA−AA−3552−01A, spectrum: 101151
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=48.6284
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y11−NH3
y11++
b12++−NH3
y6
y12++
y7−NH3
b14++
b15++
b2O++
y18++
y11
b11−H2O
b11

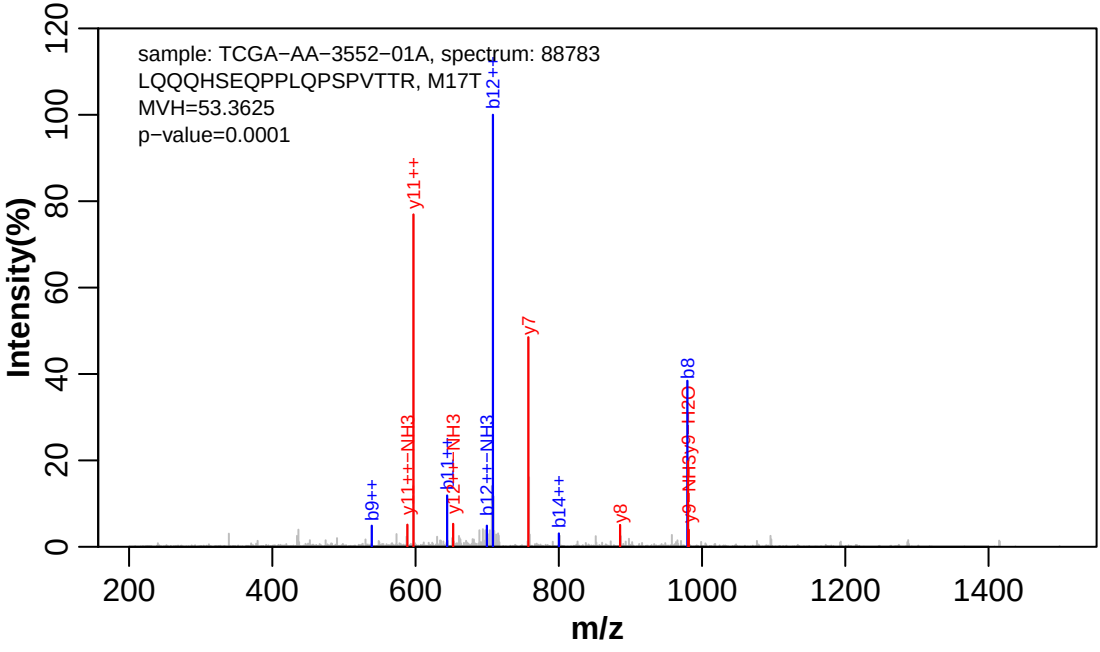

sample: TCGA−AA−3552−01A, spectrum: 21641
LLNLLADLVER, R4L
MVH=54.2038
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b3
b4
b5−NH3
b4−NH3
b8−NH3
b9−NH3
b2
b7
b8
b9
b10

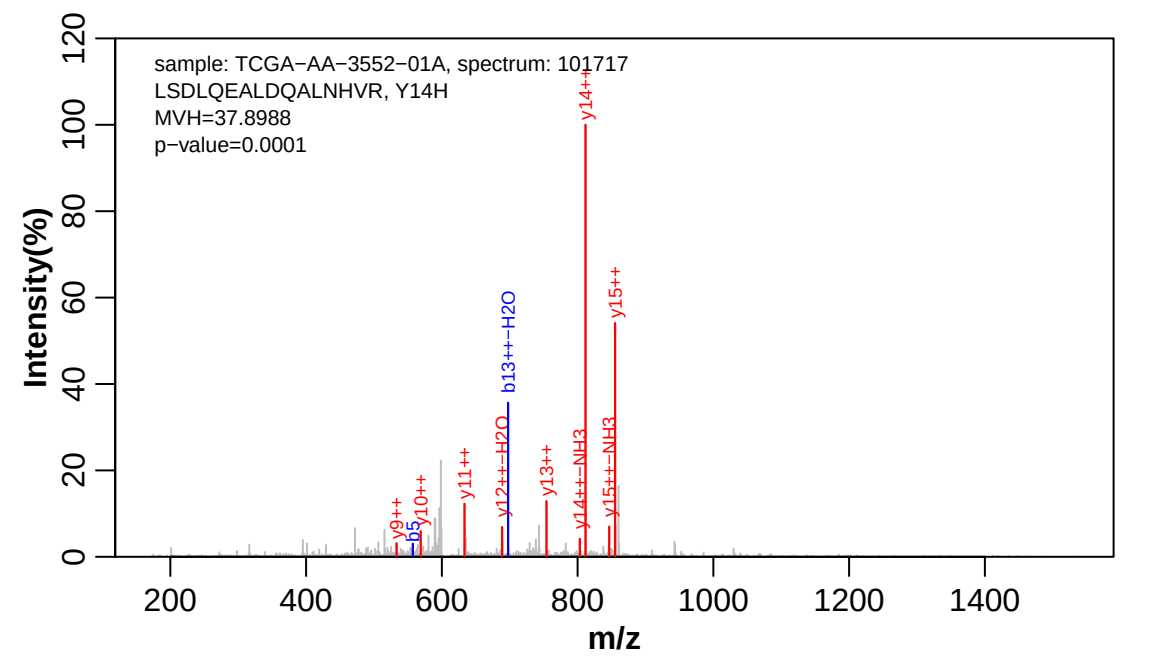

sample: TCGA−AA−3552−01A, spectrum: 107888
LLSDLLPPSTGTFQEAQSR, S5L
MVH=36.8174
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
b5−H2O
b5
b6−H2O
b6
y10
y12
y13

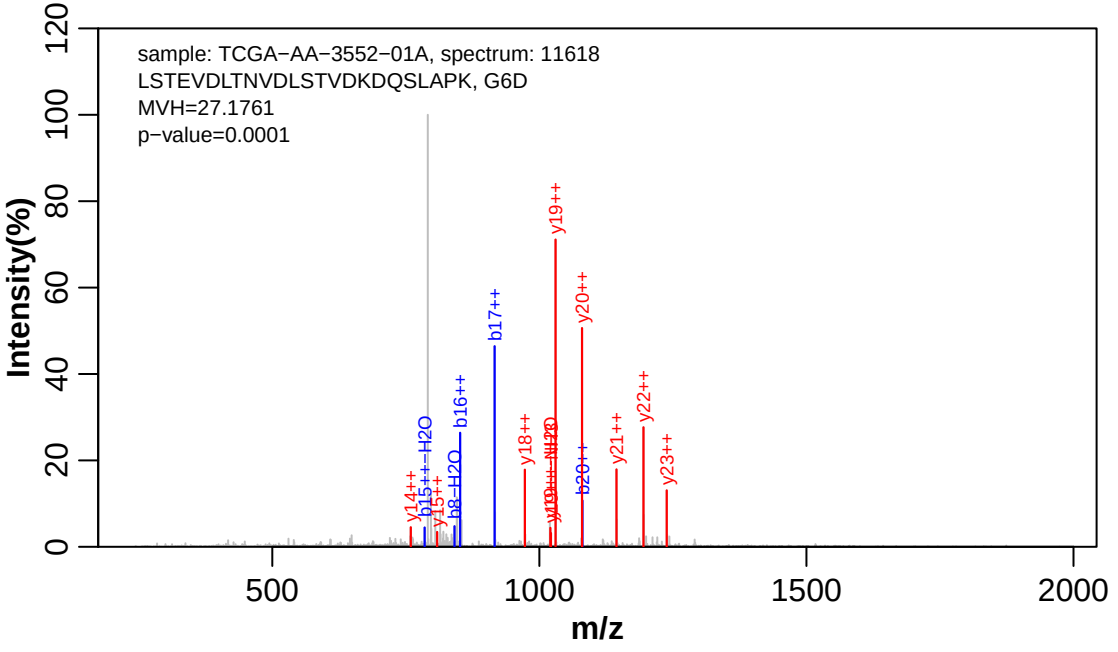

sample: TCGA−AA−3552−01A, spectrum: 34092
LLTQDEGPALVPGSR, G14S
MVH=48.7387
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
y8
y9
y10
y11
y4−NH3
b6−H2O
b11
b11−H2O
b10

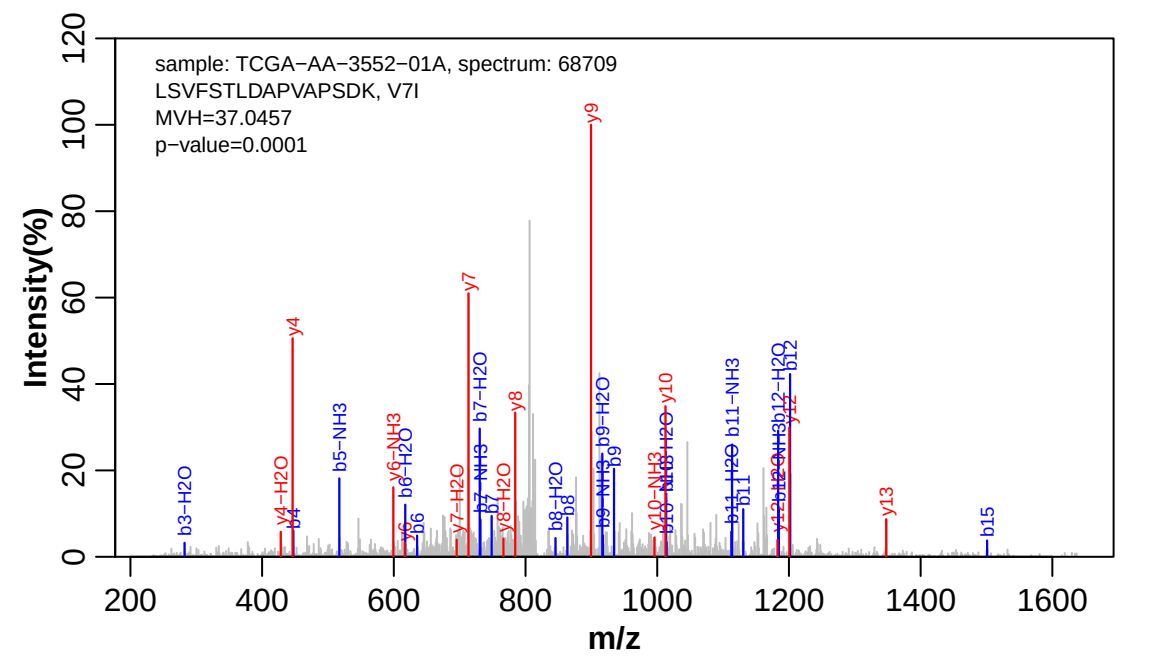

sample: TCGA−AA−3552−01A, spectrum: 80419
LPAEPLTR, E3A
MVH=33.2970
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6−NH3
y6
y7

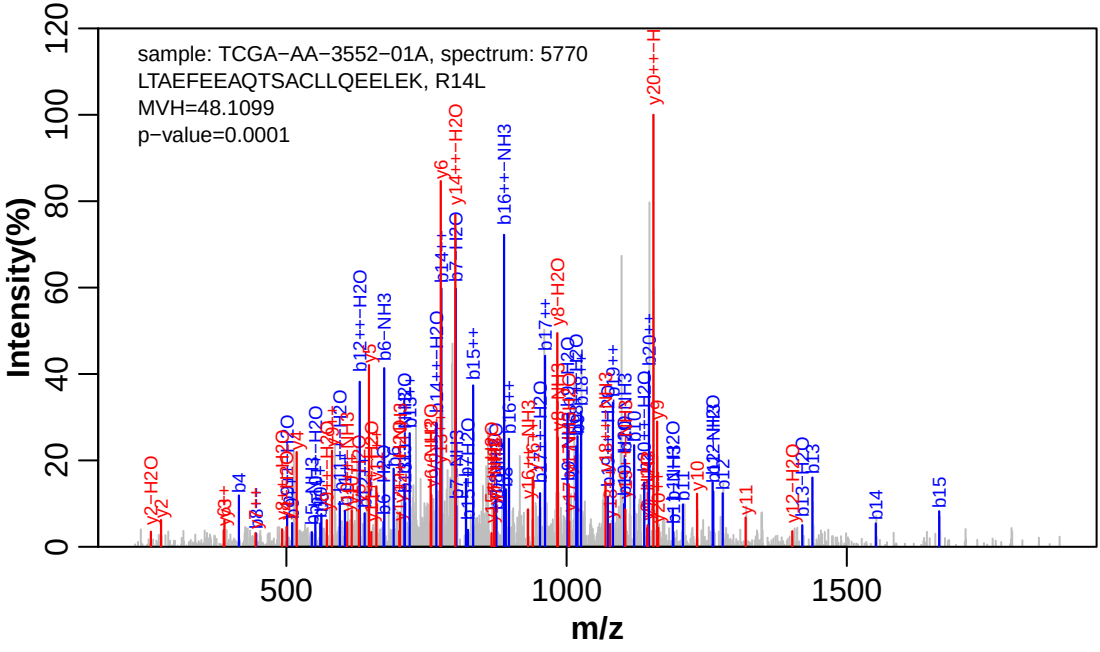

sample: TCGA−AA−3552−01A, spectrum: 108166
LPPSLAPTVLSVPAGTTLVK, S5L
MVH=37.1672
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b6
y8
b11++−H2O
b13++
y8++
b10++
b11++
b12++
y6
b18++−H2O
b19++
b12

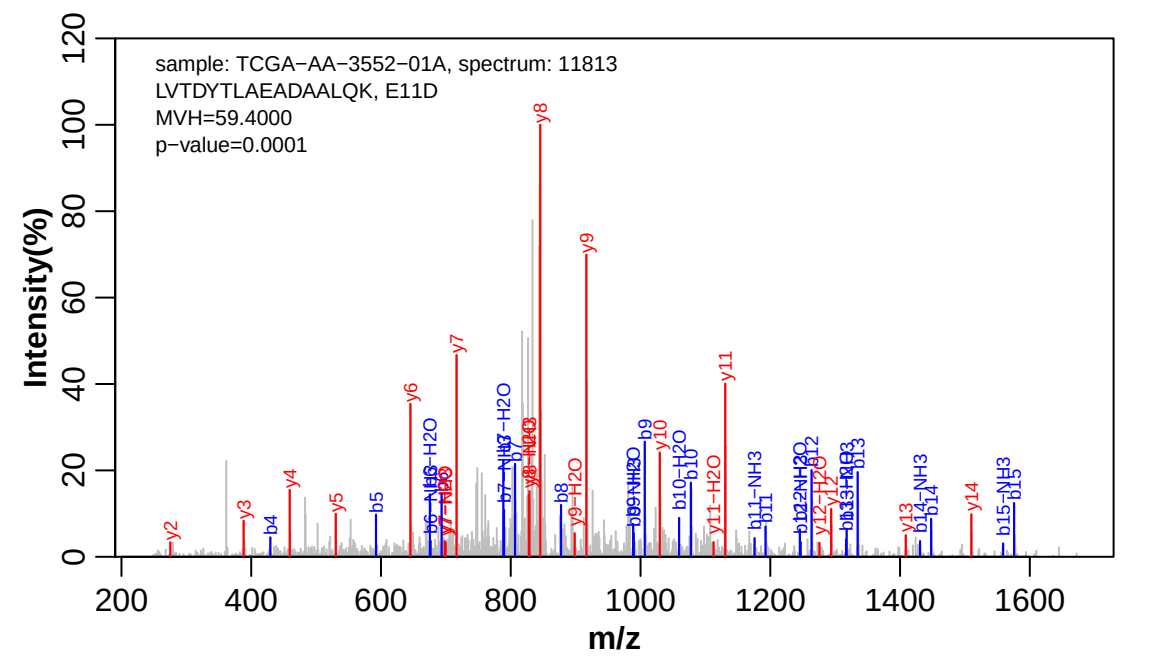

sample: TCGA−AA−3552−01A, spectrum: 88783
LQQQHSEQPPLQPSPVTTR, M17T
MVH=53.3625
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b12++
y11++
y7
b8
y11++−NH3
y12++−NH3
b11++
b12++−NH3
b9++
b14++
y8
y9−NH3
y9−H2O

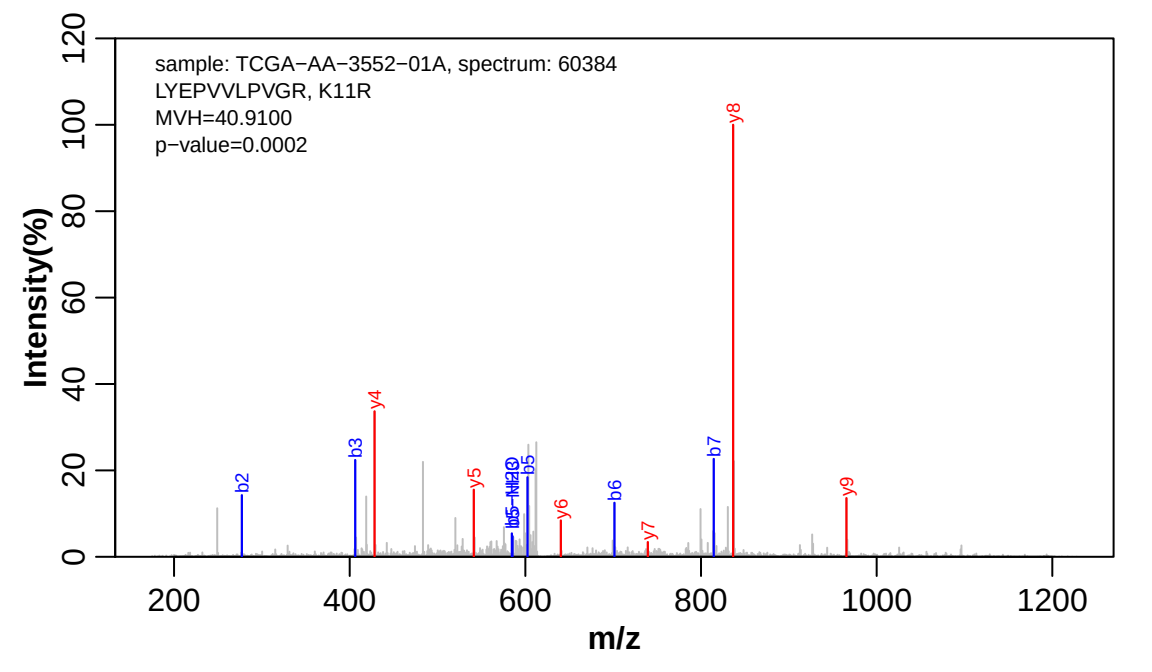

sample: TCGA−AA−3552−01A, spectrum: 101717
LSDLQEALDQALNHVR, Y14H
MVH=37.8988
p−value=0.0001
Intensity(%)
m/z
y14++
y15++
b13++−H2O
y12++−H2O
y11++
y10++
y9++
b5
y13++
y14++−NH3
y15++−NH3

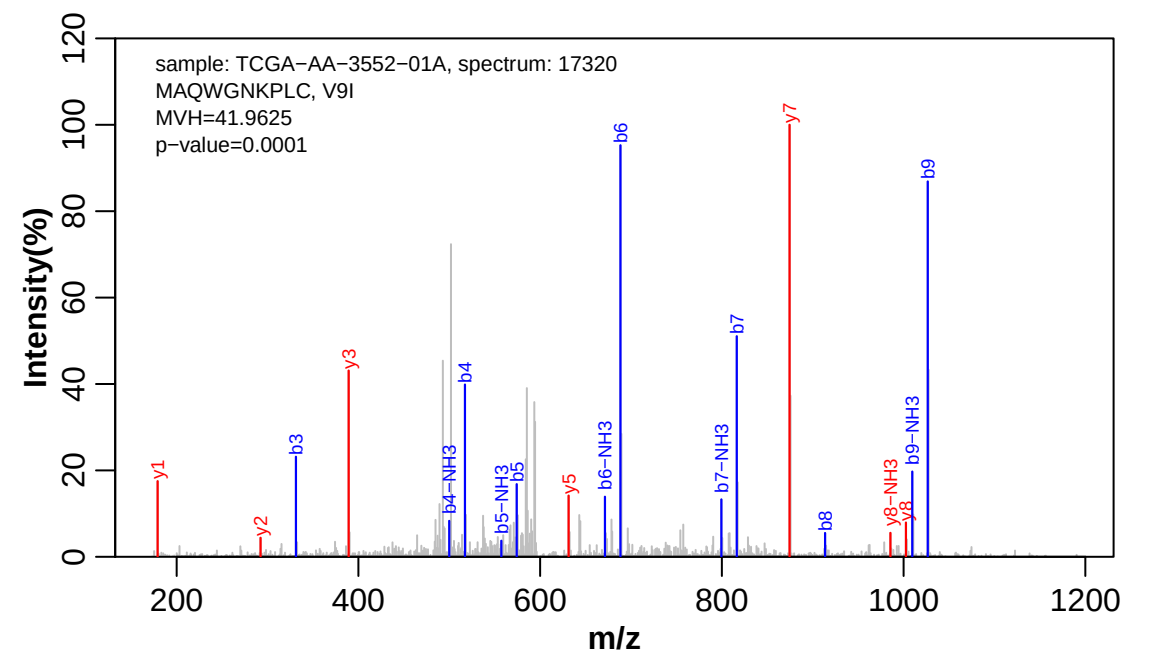

sample: TCGA−AA−3552−01A, spectrum: 11618
LSTEVDLTNVDLSTVDKDQSLAPK, G6D
MVH=27.1761
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y14++
b15++−H2O
y15++
b8−H2O
b16++
b17++
y18++
y19++
y20++
b20++
y21++
y22++
y23++

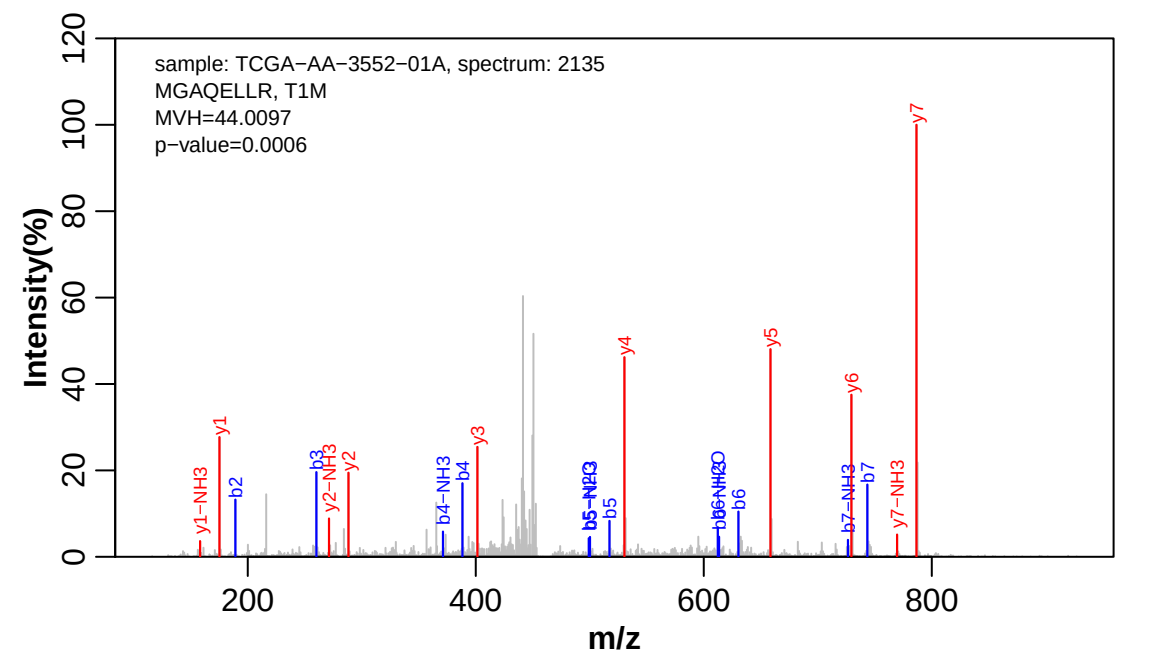

sample: TCGA−AA−3552−01A, spectrum: 68709
LSVFSTLDAPVAPSDK, V7I
MVH=37.0457
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y4
y7
y8
b5−NH3
b7−H2O
b9−H2O
y10
b12
b11−NH3
y12
y13
b15
b3−H2O
y4−H2O
b4
y6−NH3
b6−H2O
b6
y7−H2O
b7−NH3
y8−H2O
b8−H2O
b8
b9−NH3
b9
y10−NH3
b11−H2O
b11
b12−H2O

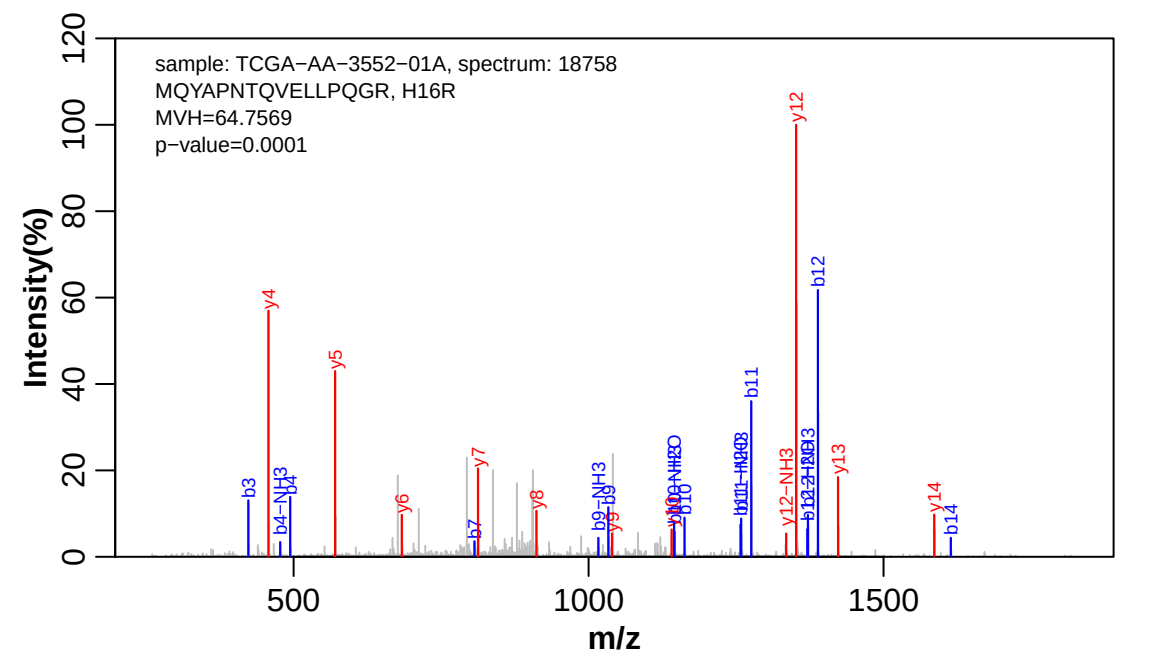

sample: TCGA−AA−3552−01A, spectrum: 5770
LTAEFEEAQTSACLLQEELEK, R14L
MVH=48.1099
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2−H2O
y2
b4
y3++
b8++
y4
b12++−H2O
y5
b6−NH3
b14++
b14++−H2O
y6
y14++−H2O
b7−H2O
b16++−NH3
b15++
b16++
b17++
y8−H2O
y20++
y9
y10
b12−NH3
y11
y12−H2O
b13
b14
b15

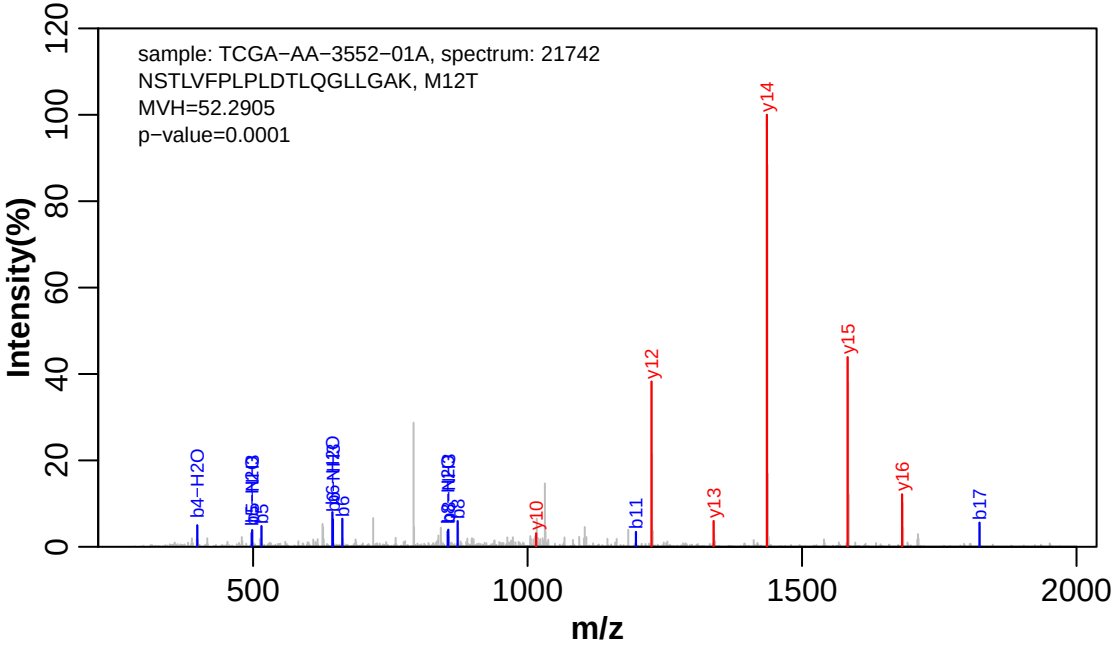

sample: TCGA−AA−3552−01A, spectrum: 11813
LVTDYTLAEADAALQK, E11D
MVH=59.4000
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
y5
b5
y6
y7
y8
y9
y10
y11
y12
y13
y14
b8
b9
b10
b11
b12
b13
b14
b15
y9−H2O
y11−H2O
b10−H2O
b11−NH3
b14−NH3
b15−NH3

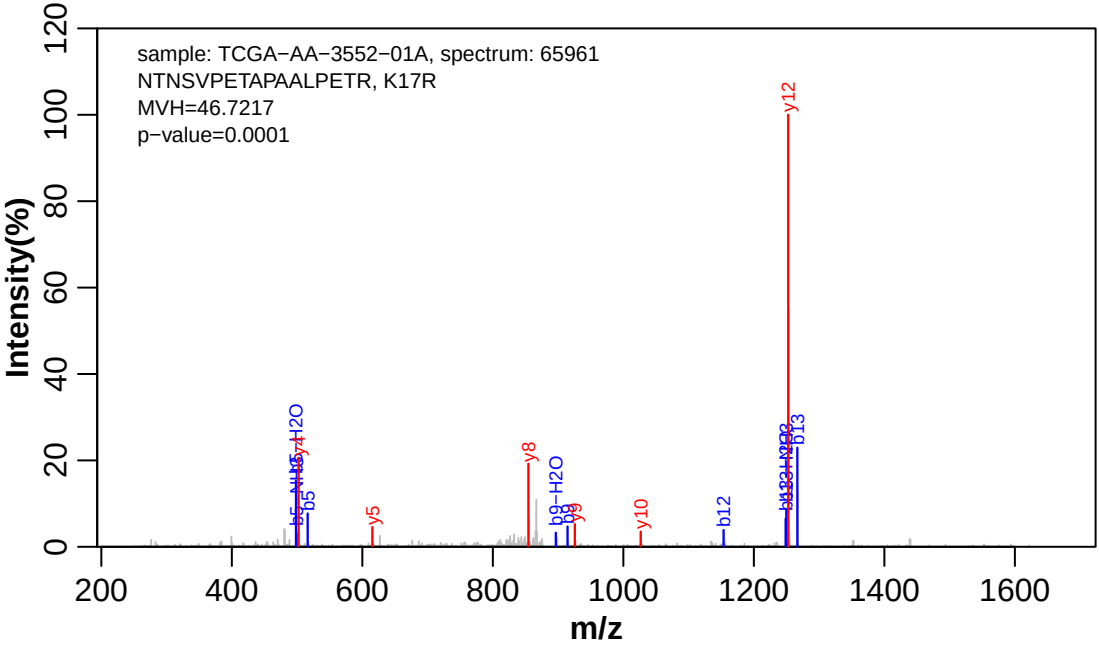

sample: TCGA−AA−3552−01A, spectrum: 60384
LYEPVVLPVGR, K11R
MVH=40.9100
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y4
y5
b5
y6
b6
y7
b7
y8
y9

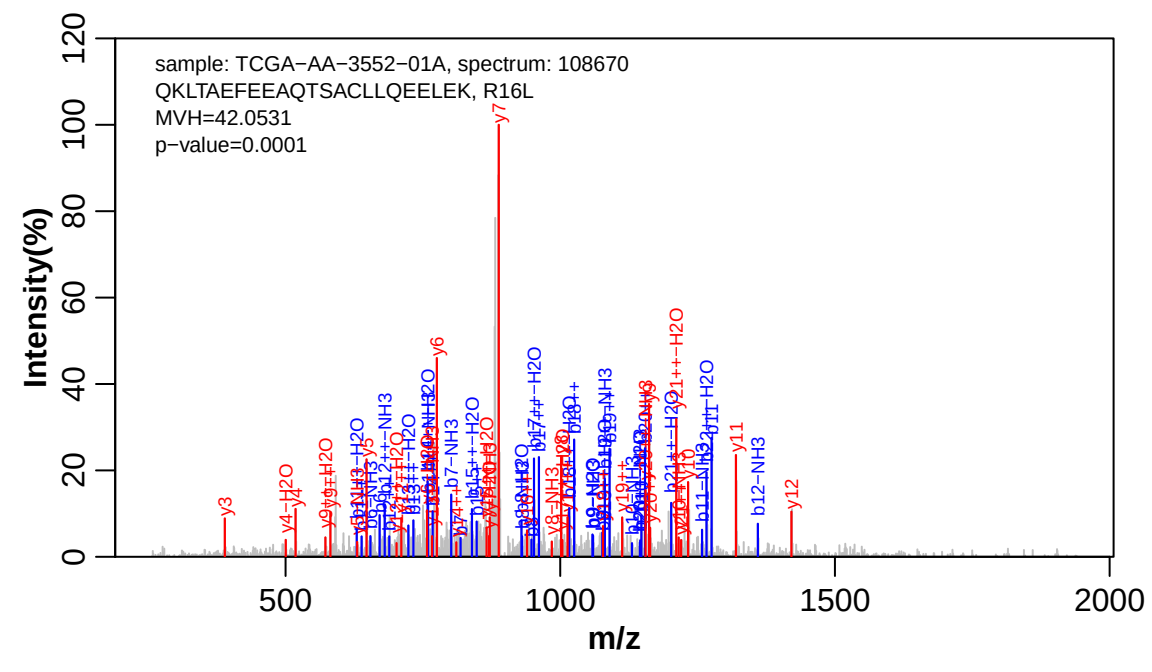

sample: TCGA−AA−3552−01A, spectrum: 17320
MAQWGNKPLC, V9I
MVH=41.9625
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2
b3
y3
b4
b4−NH3
b5−NH3
b5
y5
b6
b6−NH3
b7
b7−NH3
y7
b8
y8−NH3
y8
b9
b9−NH3

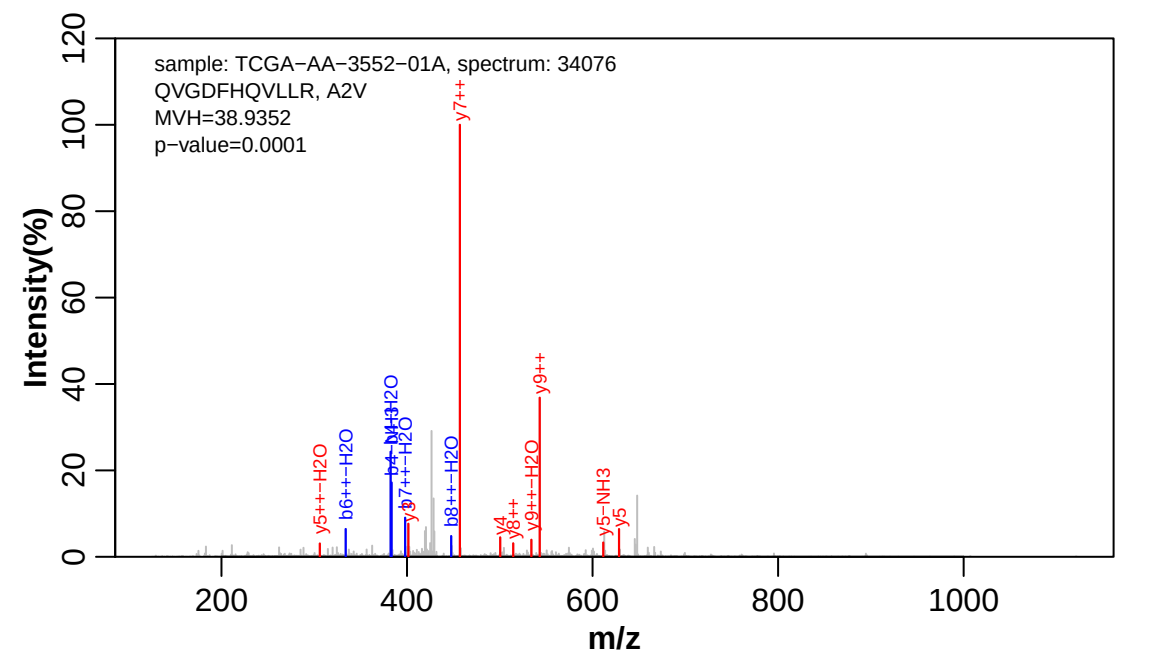

sample: TCGA−AA−3552−01A, spectrum: 2135
MGAQELLR, T1M
MVH=44.0097
p−value=0.0006
Intensity(%)
m/z
y1
y1−NH3
b2
b3
y2−NH3
y2
b4−NH3
b4
y3
b5−NH3
b5
y4
b6−NH3
b6
y5
b7−NH3
b7
y6
y7−NH3
y7

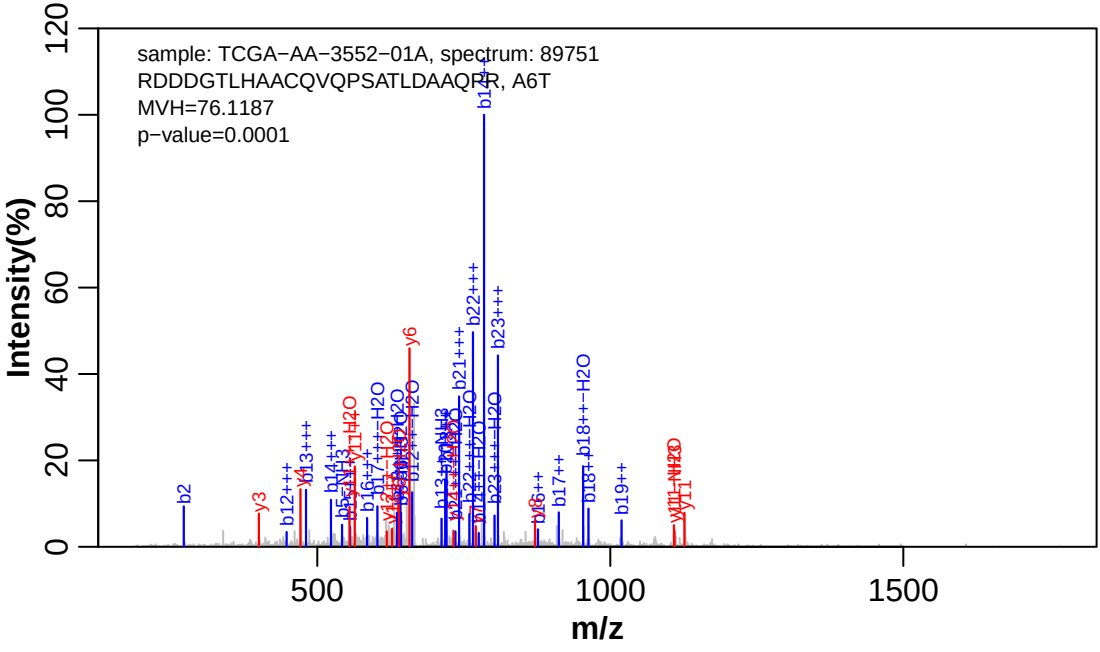

sample: TCGA−AA−3552−01A, spectrum: 18758
MQYAPNTQVELLPQGR, H16R
MVH=64.7569
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
b12
y4
y5
b11
y7
y6
y8
y13
y14
b14
b3
b4
b4−NH3
b9−NH3
y9
b9
b10
y12−NH3
y10
y10−NH3
y10−H2O
b11−NH3
b11−H2O
b12−NH3
b12−H2O

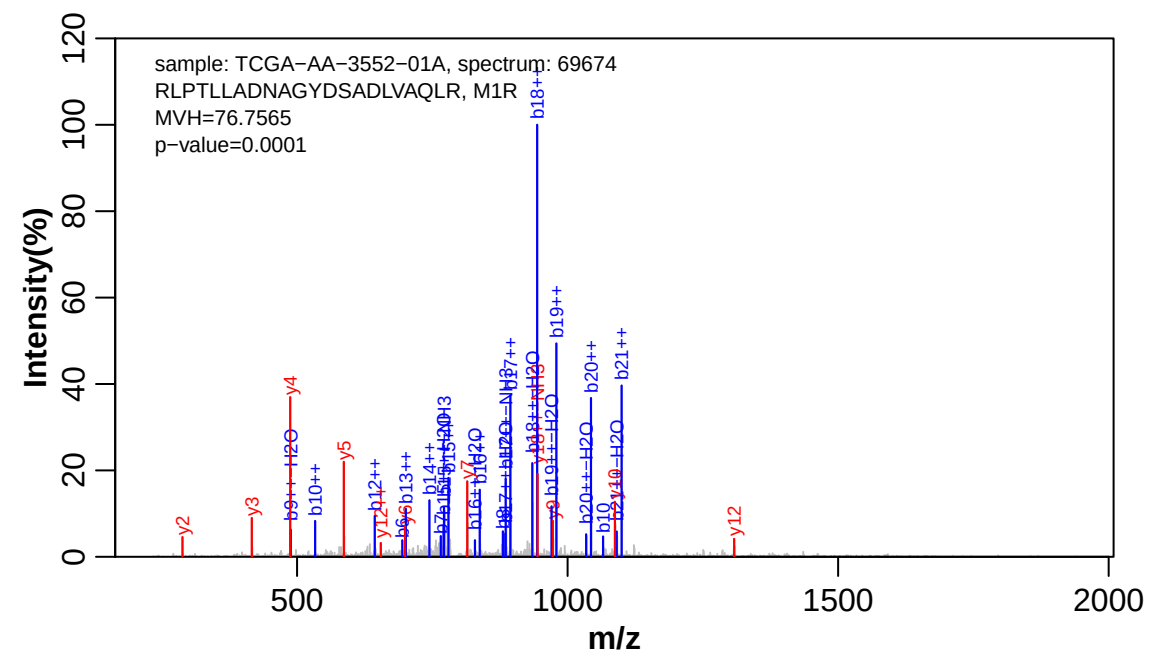

sample: TCGA−AA−3552−01A, spectrum: 21742
NSTLVFPLPLDTLQGLLGAK, M12T
MVH=52.2905
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y14
y12
y15
y16
b17
y13
b11
y10

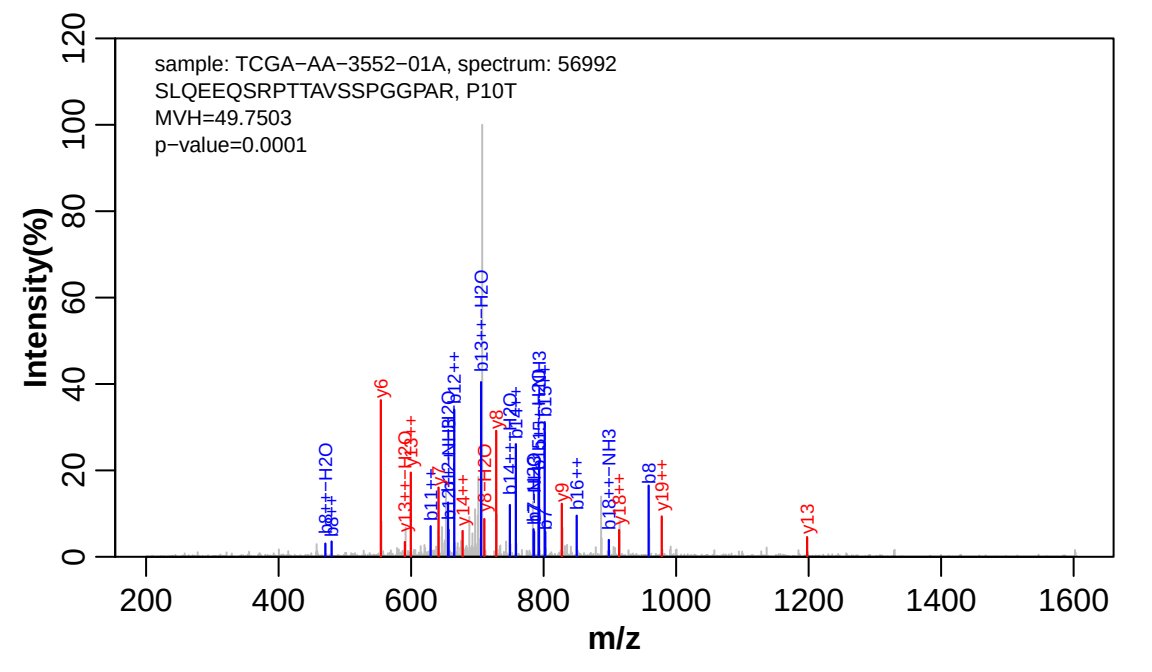

sample: TCGA−AA−3552−01A, spectrum: 65961
NTNSVPETAPAALPETR, K17R
MVH=46.7217
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
y10
b12
b13
b5
b9−H2O
y9

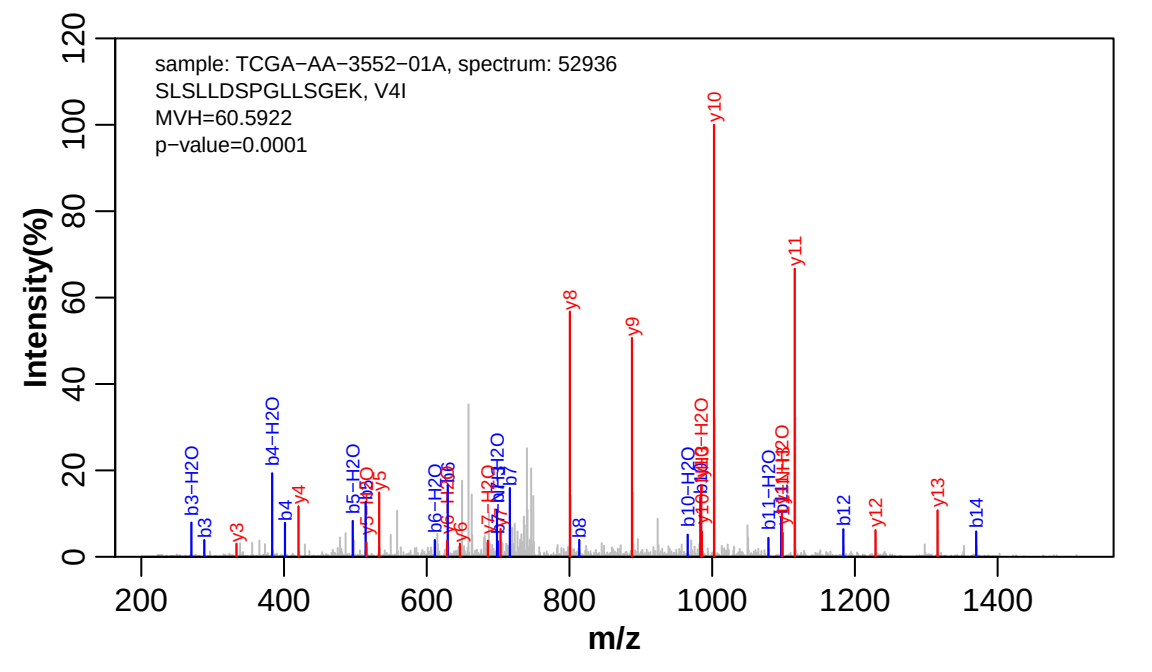

sample: TCGA−AA−3552−01A, spectrum: 108670
QKLTAEFEEAQTSACLLQEELEK, R16L
MVH=42.0531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y3
y4−H2O
y12
y11
b12−NH3

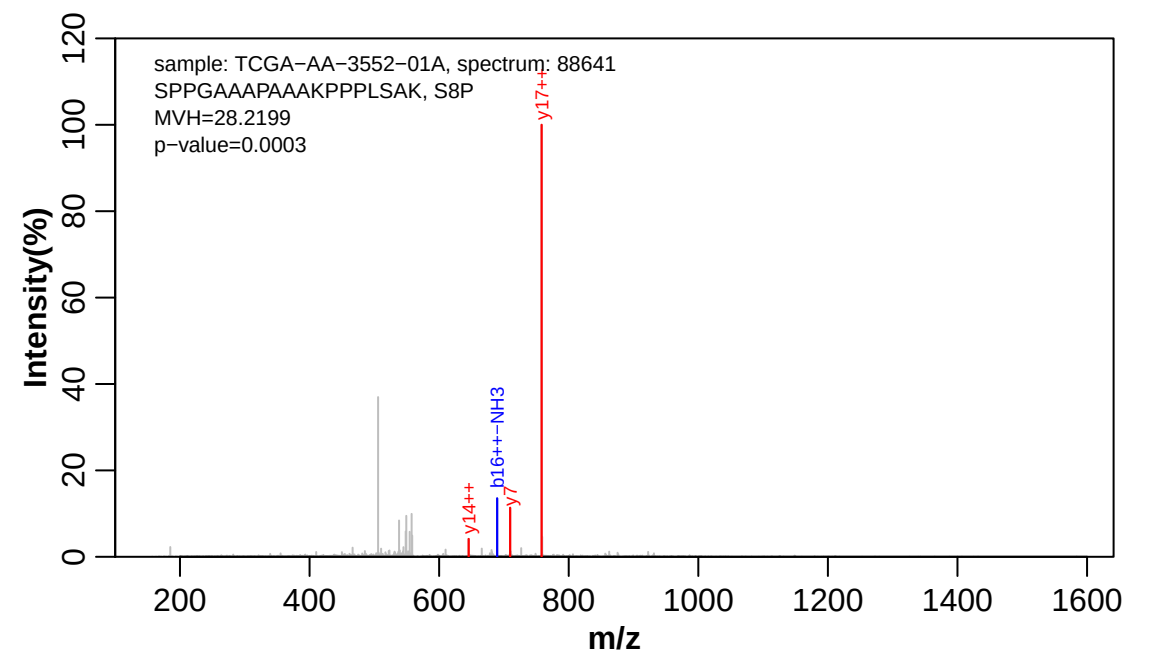

sample: TCGA−AA−3552−01A, spectrum: 34076
QVGDFHQVLLR, A2V
MVH=38.9352
p−value=0.0001
Intensity(%)
m/z
y7++
y9++
y5++−H2O
b6++−H2O
b8++−H2O
y9++−H2O
y5−NH3
y5
y4
y8++
y7++−H2O
0
20
40
60
80
100
120
200
400
600
800
1000

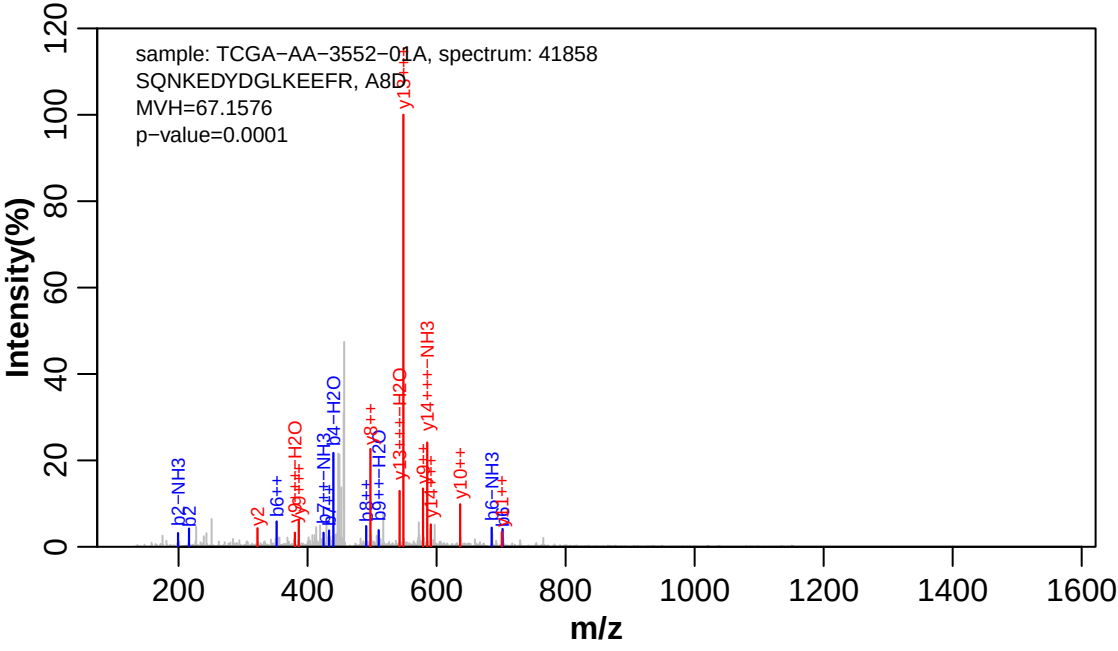

sample: TCGA−AA−3552−01A, spectrum: 89751
RDDDGTLHAACQVQPSATLDAAQTR, A6T
MVH=76.1187
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b12+++
y4
b13+++
b14+++
b16++
b17+++
b18++
b19++
b17++
b18++−H2O
b19++
y6
b22+++
b23+++
b12++

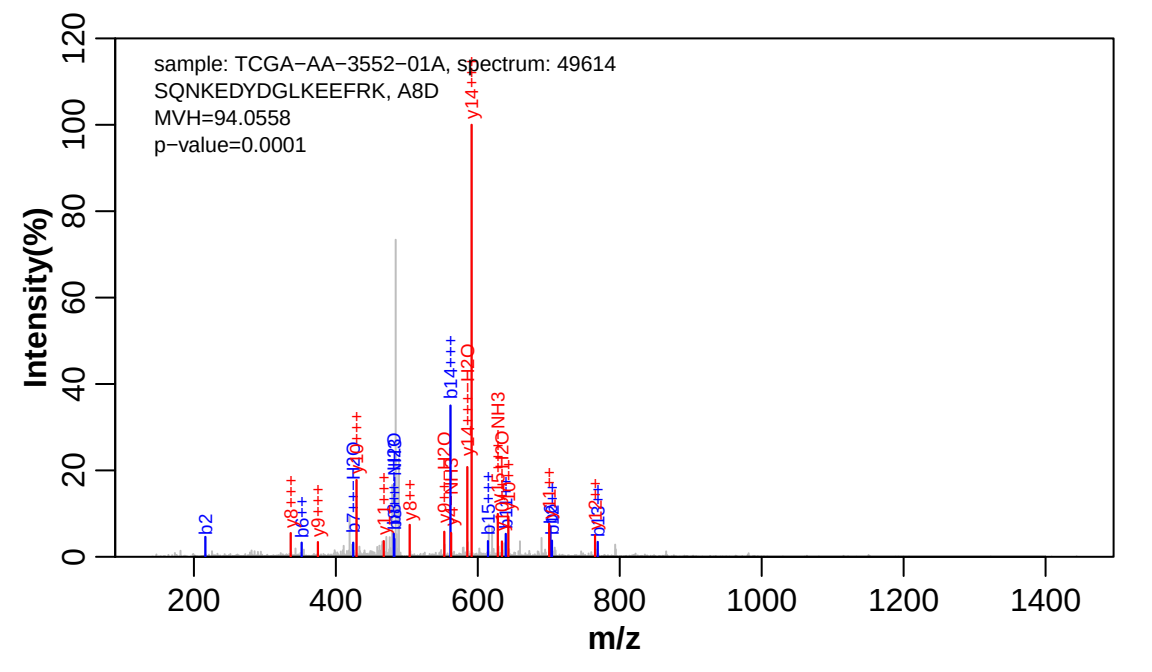

sample: TCGA−AA−3552−01A, spectrum: 69674
RLPTLLADNAGYDSADLVAQLR, M1R
MVH=76.7565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
b9++ H2O
b10++
y5
b12++
y12++
b13++
b14++
b16++ b17++
b18++
b18++ H2O
b19++
b19++ H2O
b20++
b20++ H2O
b21++
b10
y12

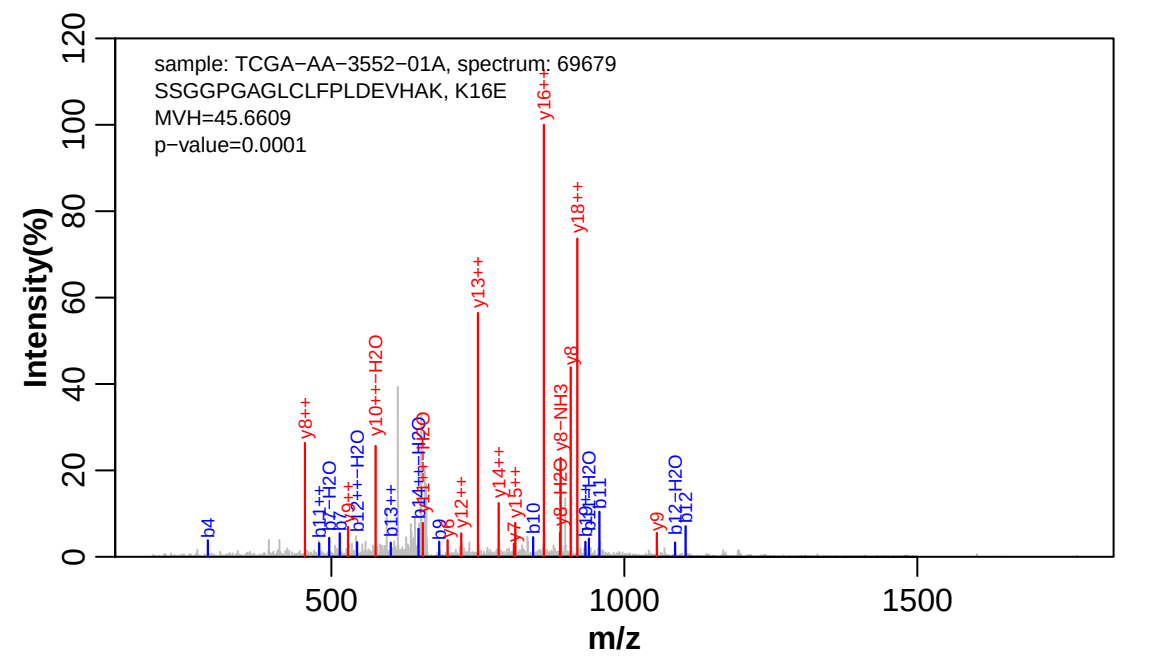

sample: TCGA−AA−3552−01A, spectrum: 56992
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=49.7503
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y13++−H2O
y13++
b11++
b13++−H2O
b12++
y14++
y8+−H2O
y8
b14++
b14+
b15++
b16++
y9
b18++−NH3
y18++
b8
y19++
y13

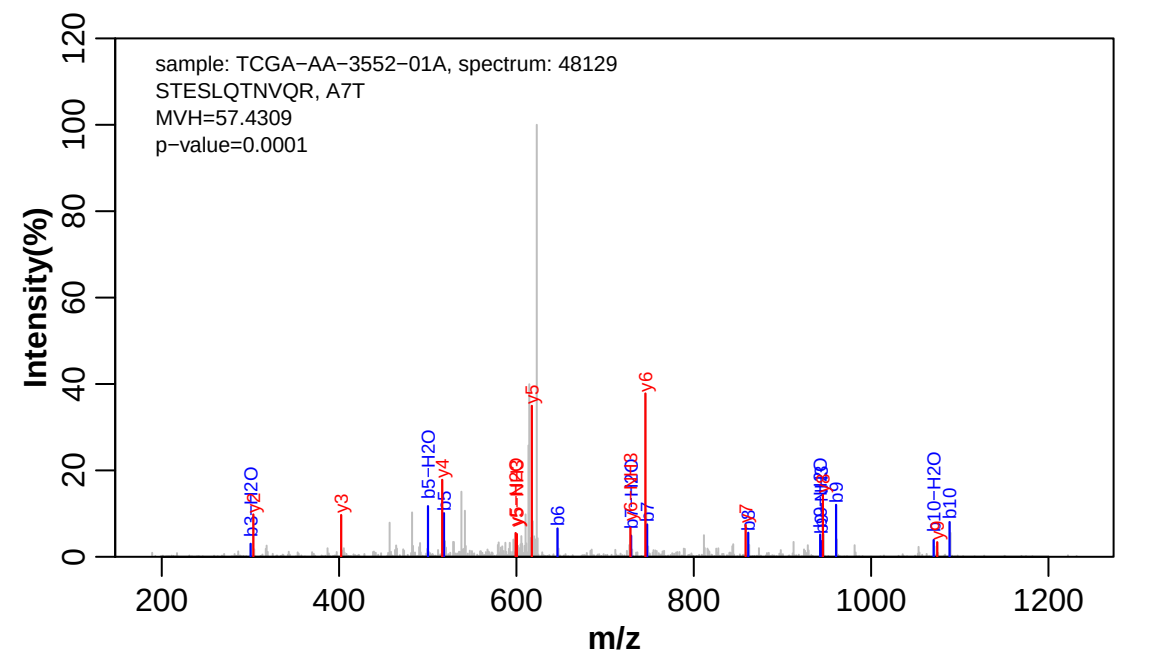

sample: TCGA−AA−3552−01A, spectrum: 52936
SLSLLDSPGLLSGEK, V4I
MVH=60.5922
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y8
y9
b3−H2O
b4−H2O
b5−H2O
b10−H2O
b11−H2O
y7−H2O
y11−NH3−H2O
b3
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
b7
b8
b12
y12
y13
b14

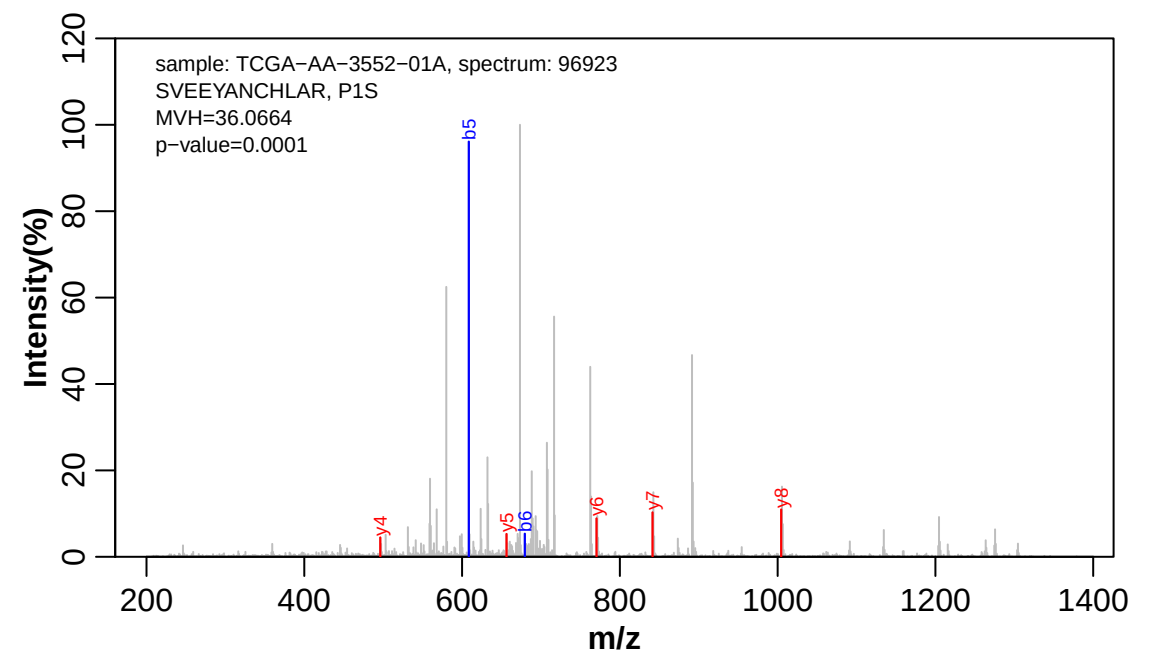

sample: TCGA−AA−3552−01A, spectrum: 88641
SPPGAAAPAAAKPPPLSAK, S8P
MVH=28.2199
p−value=0.0003
y17++
y14++
b16++−NH3
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

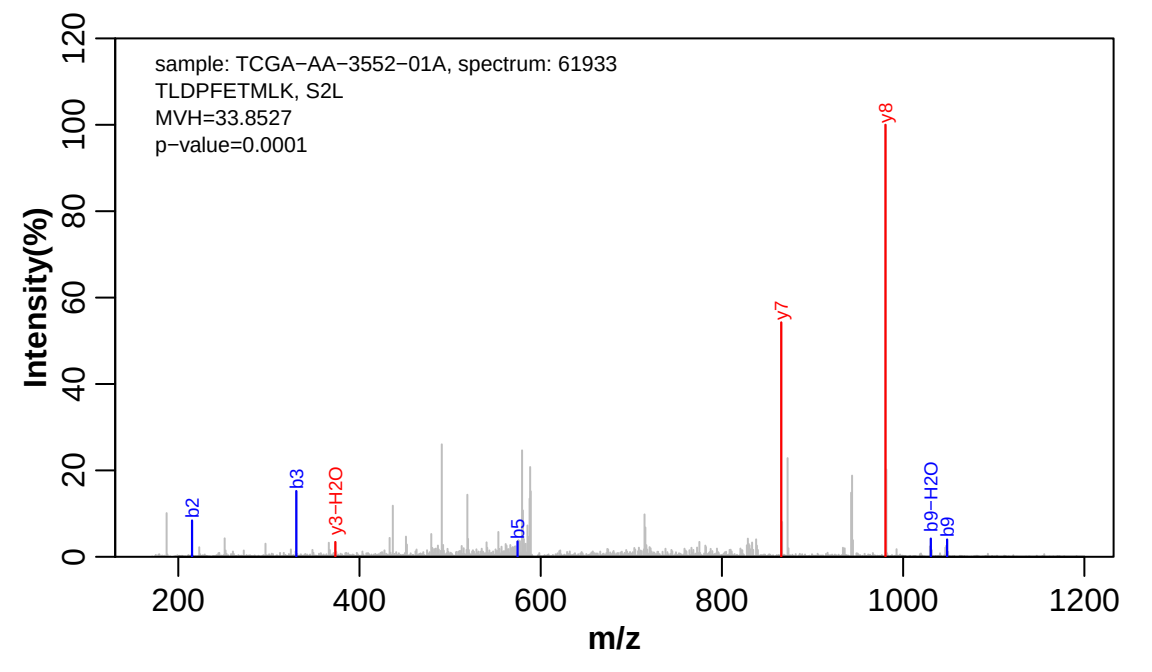

sample: TCGA−AA−3552−01A, spectrum: 41858
SQNKEDYDGLKEEFR, A8D
MVH=67.1576
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y15++
y14+++−NH3
y13+++−H2O
y14+++
y10++
b2−NH3
b2
y2
b6++
y9+++−H2O
b7+++−NH3
b4−H2O
b8++
y8++
b9+++−H2O
b6−NH3
b61++

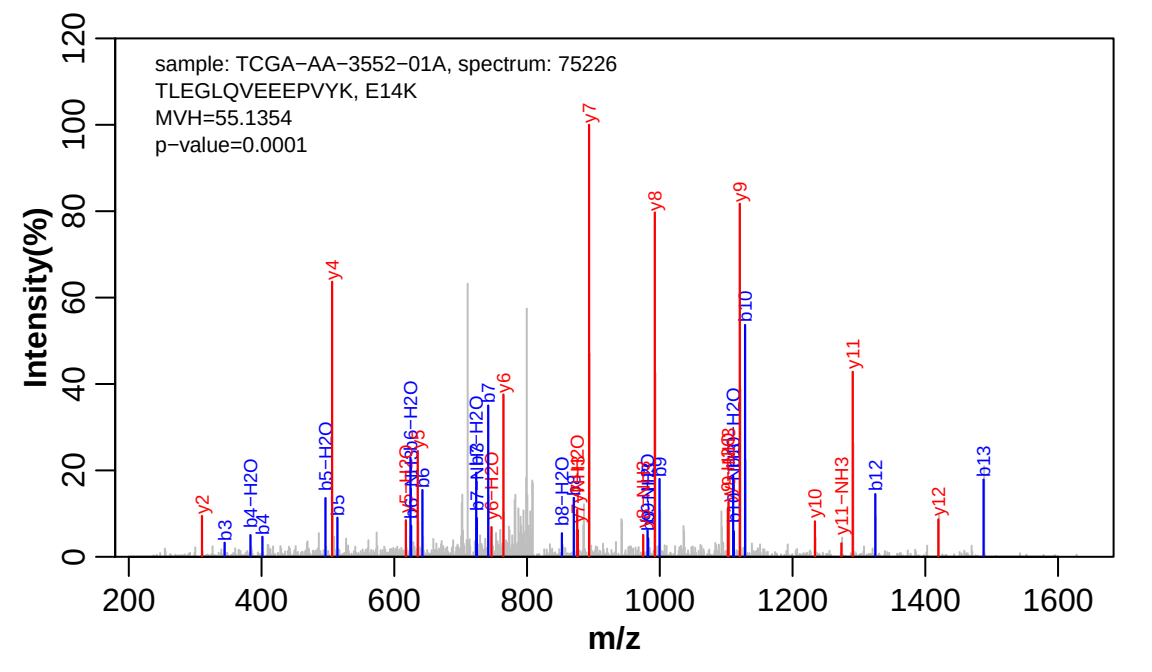

sample: TCGA−AA−3552−01A, spectrum: 49614
SQNKEDYDGLKEEFRK, A8D
MVH=94.0558
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y8+++
b6++
y9+++
b7++−H2O
y2O+++
y11+++
b8++−NH3
b8++−H2O
y8++
y8+−NH3
y4+−NH3
b14+++
y14+++−H2O
b15+++
y14+++−H2O−NH3
b11++
b13++
y14++

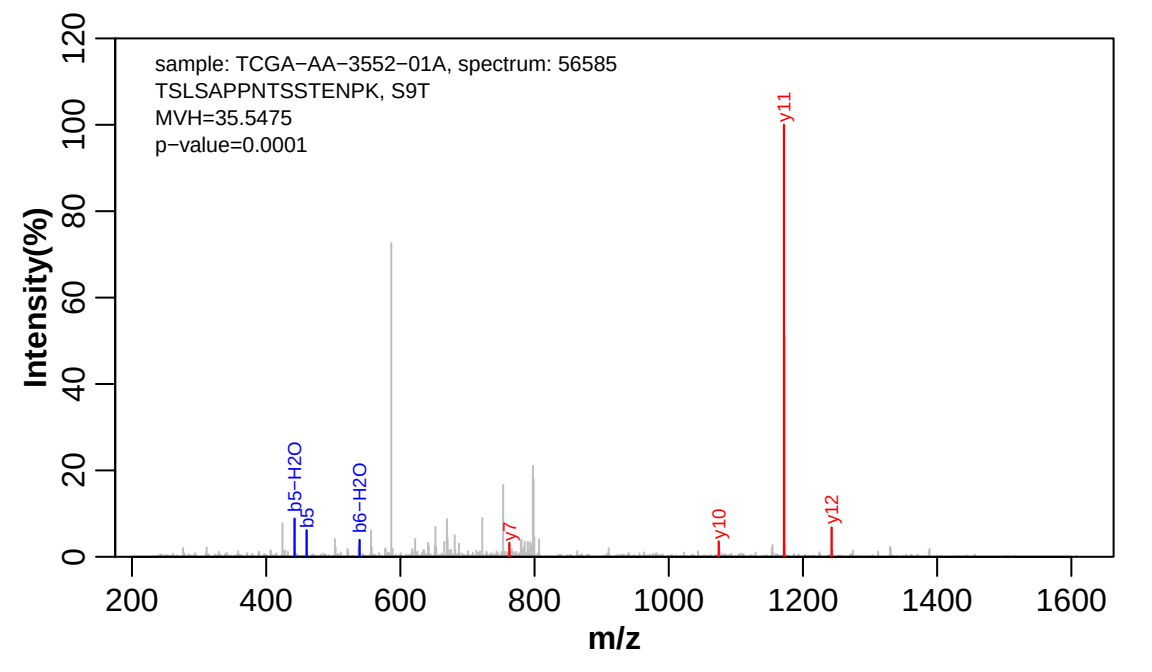

sample: TCGA−AA−3552−01A, spectrum: 69679
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=45.6609
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y18++
y8
y13++
y8−NH3
y10++−H2O
y8++
y14++
y15++
y12++
y7
y14++−H2O
b10
b13++
b11
y9
b4
b11++
b7−H2O
b8++−H2O
b12++−H2O
b8
b9++−H2O
b12−H2O

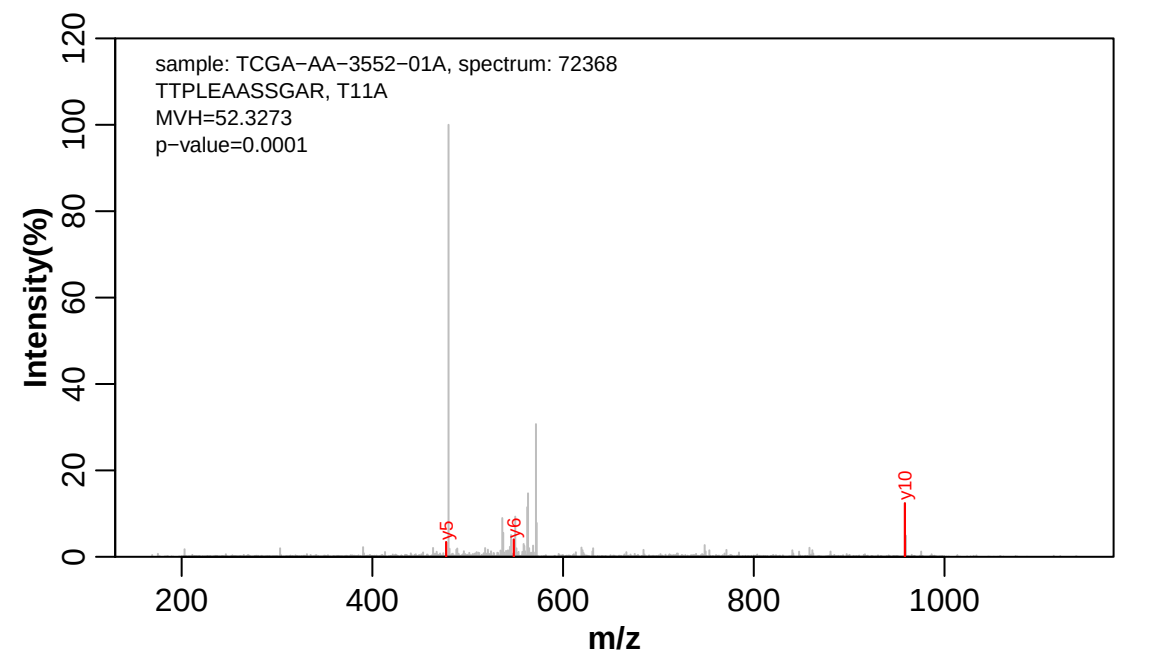

sample: TCGA−AA−3552−01A, spectrum: 48129
STESLQTNVQR, A7T
MVH=57.4309
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
y3
b5−H2O
b5
y4
y5
y5−NH3
b6
y6
b7
b8
b9
b10−H2O
b10

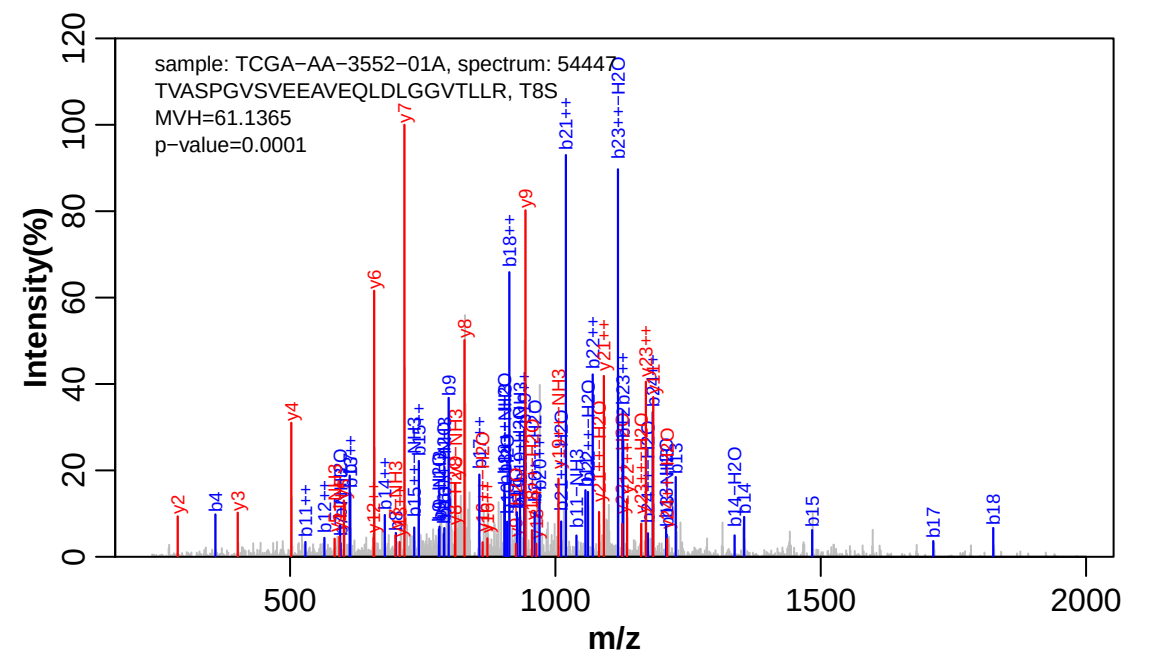

sample: TCGA−AA−3552−01A, spectrum: 96923
SVEEYANCHLAR, P1S
MVH=36.0664
p−value=0.0001
b5
y4
y5
b6
y6
y7
y8
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

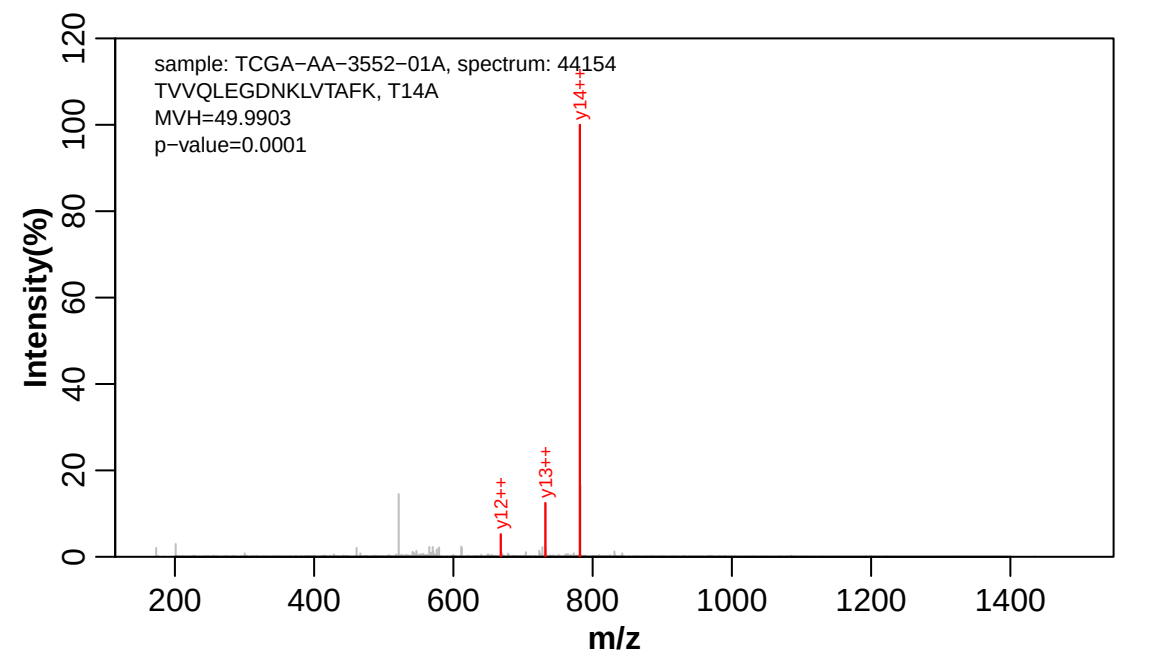

sample: TCGA−AA−3552−01A, spectrum: 61933
TLDPFETMLK, S2L
MVH=33.8527
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3−H2O
b5
y7
y8
b9−H2O
b9

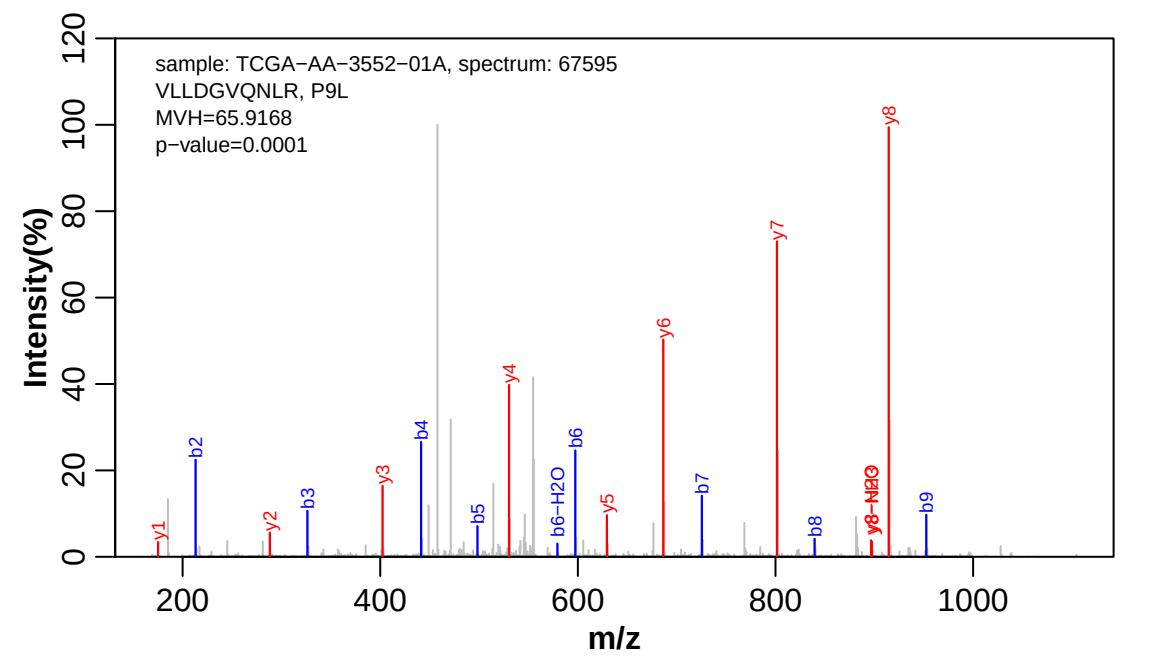

sample: TCGA−AA−3552−01A, spectrum: 75226
TLEGLQVEEEPVYK, E14K
MVH=55.1354
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
b4
y4
b5−H2O
b5
y5−H2O
y5
b6
b6−H2O
b7−NH3−H2O
b7
y6
y6−H2O
y7
y7−NH3
b8−H2O
b8
y8
y8−NH3
b9
y9
y9−NH3
y9−NH3−H2O
b10
y10
y11−NH3
y11
b12
y12
b13

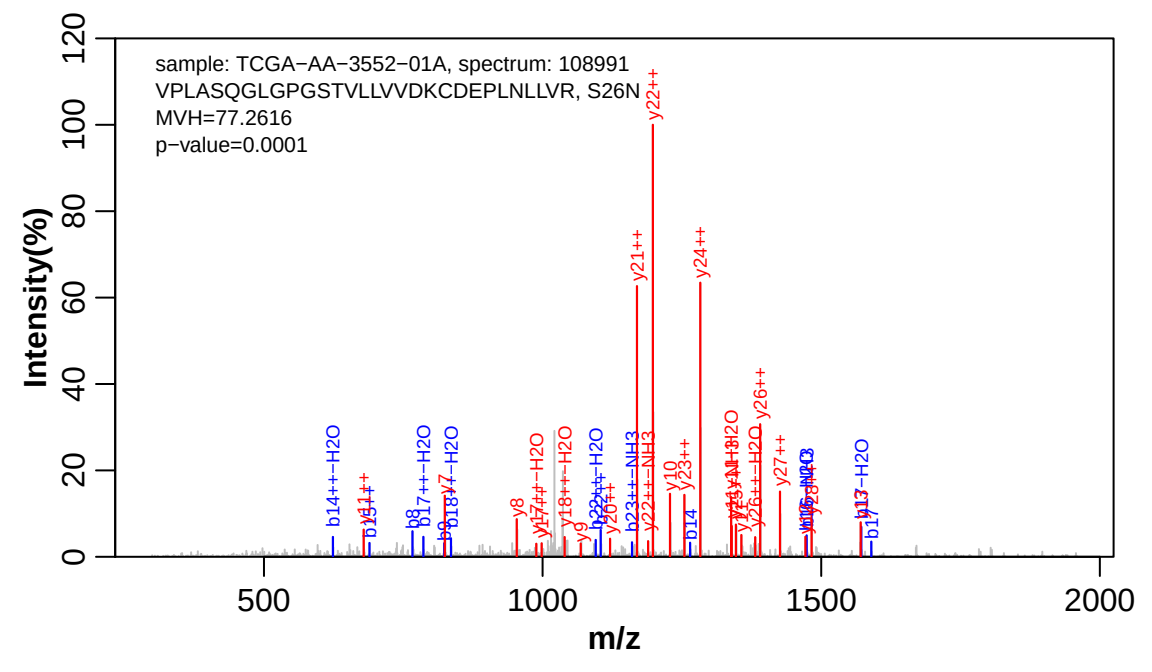

sample: TCGA−AA−3552−01A, spectrum: 56585
TSLSAPPNTSSTENPK, S9T
MVH=35.5475
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
b6−H2O
y7
y10
y11
y12

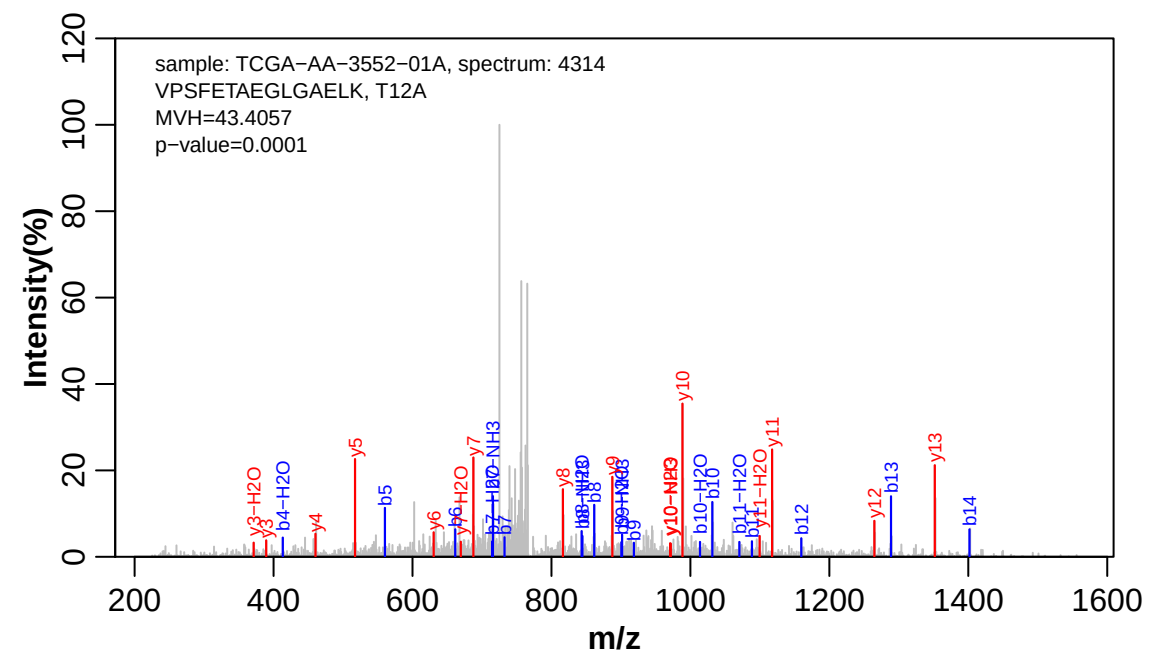

sample: TCGA−AA−3552−01A, spectrum: 72368
TTPLEAASSGAR, T11A
MVH=52.3273
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y10

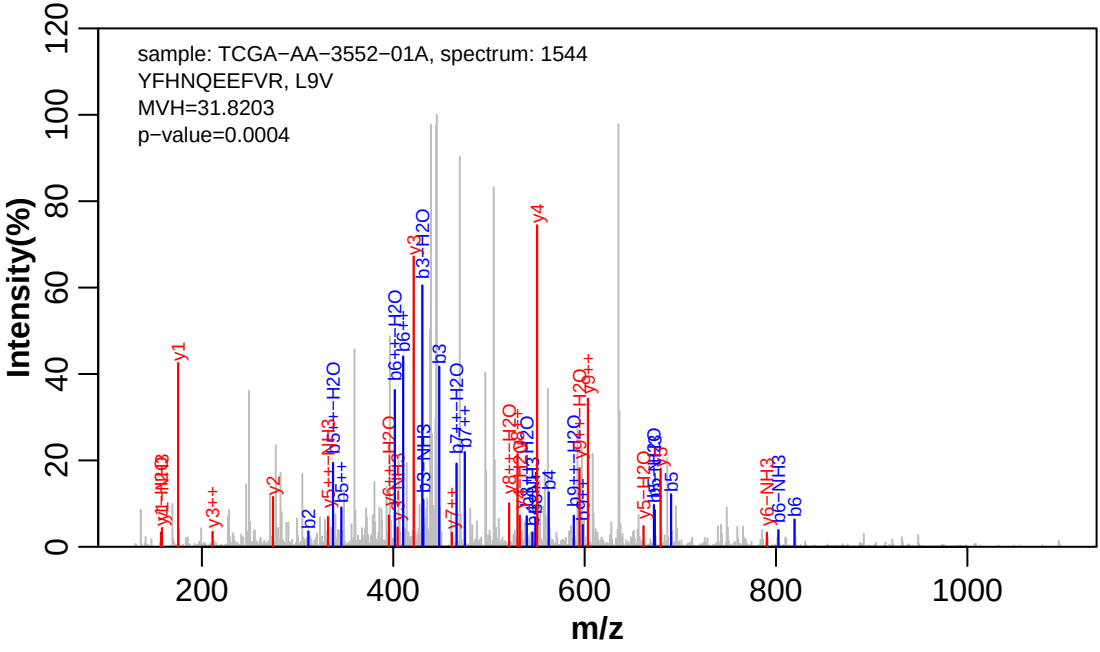

sample: TCGA−AA−3552−01A, spectrum: 54447
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=61.1365
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
y3
y4
b11++
y6
y7
y8
b9
b18++
y9
b21++
b23++−H2O
y21++
b22++
b15
b17
b18

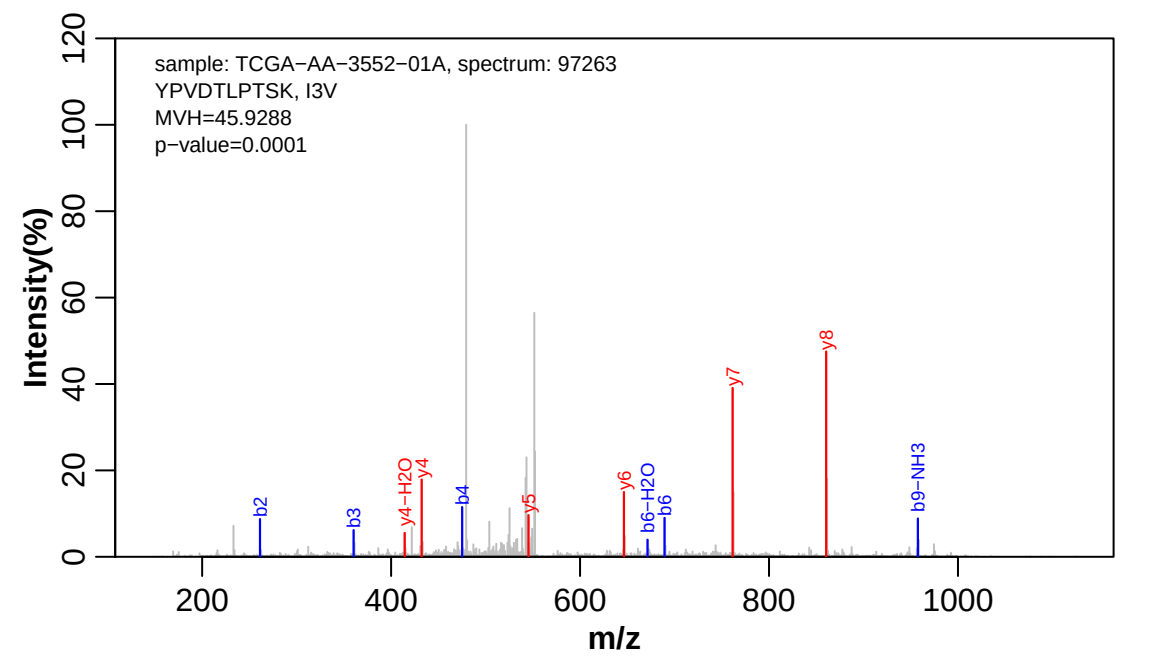

sample: TCGA−AA−3552−01A, spectrum: 44154
TVVQLEGDNKLVTAFK, T14A
MVH=49.9903
p−value=0.0001
y14++
y13++
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

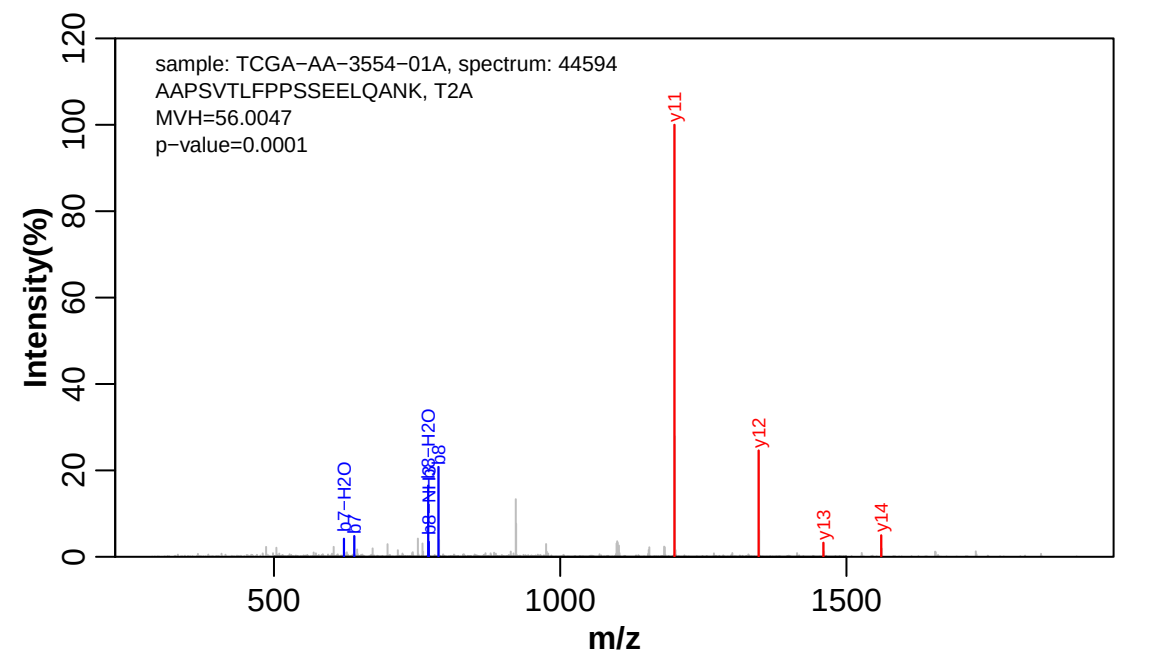

sample: TCGA−AA−3552−01A, spectrum: 67595
VLLDGVQNLR, P9L
MVH=65.9168
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
y7
b8
y8−NH3
y8−H2O
y8
b9

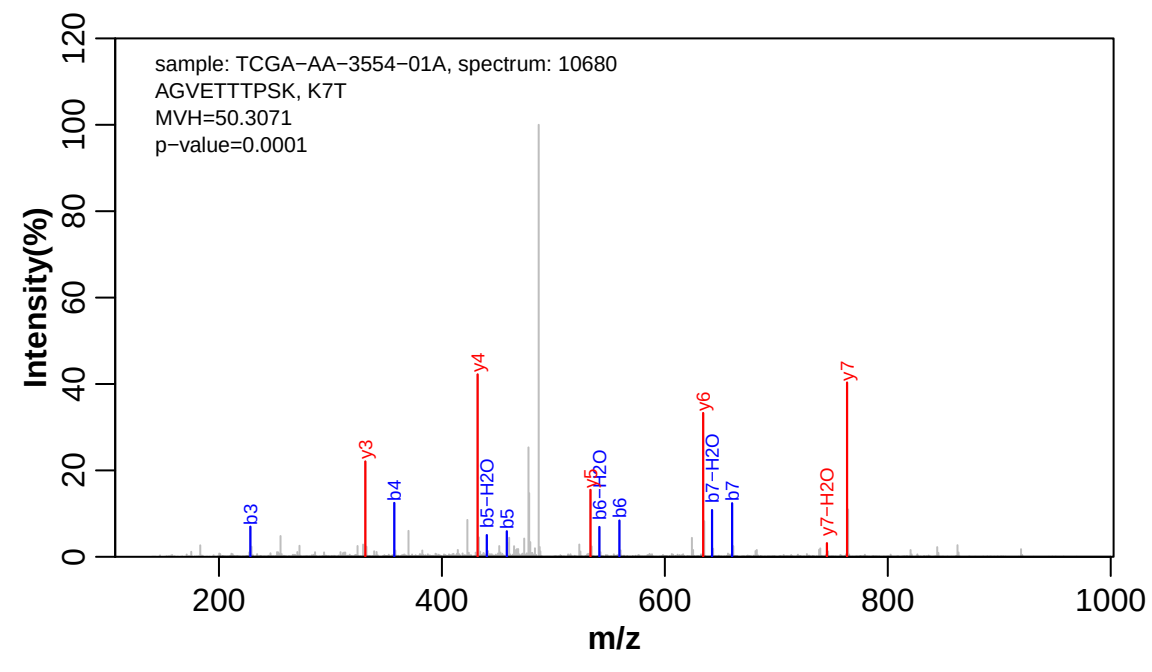

sample: TCGA−AA−3552−01A, spectrum: 108991
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=77.2616
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y26++
y27++
b14++−H2O
b11++
b8
b17++−H2O
b18++
y7−H2O
y8
y17++−H2O
y18++−H2O
y9
y10
y23++
b14
b17−H2O

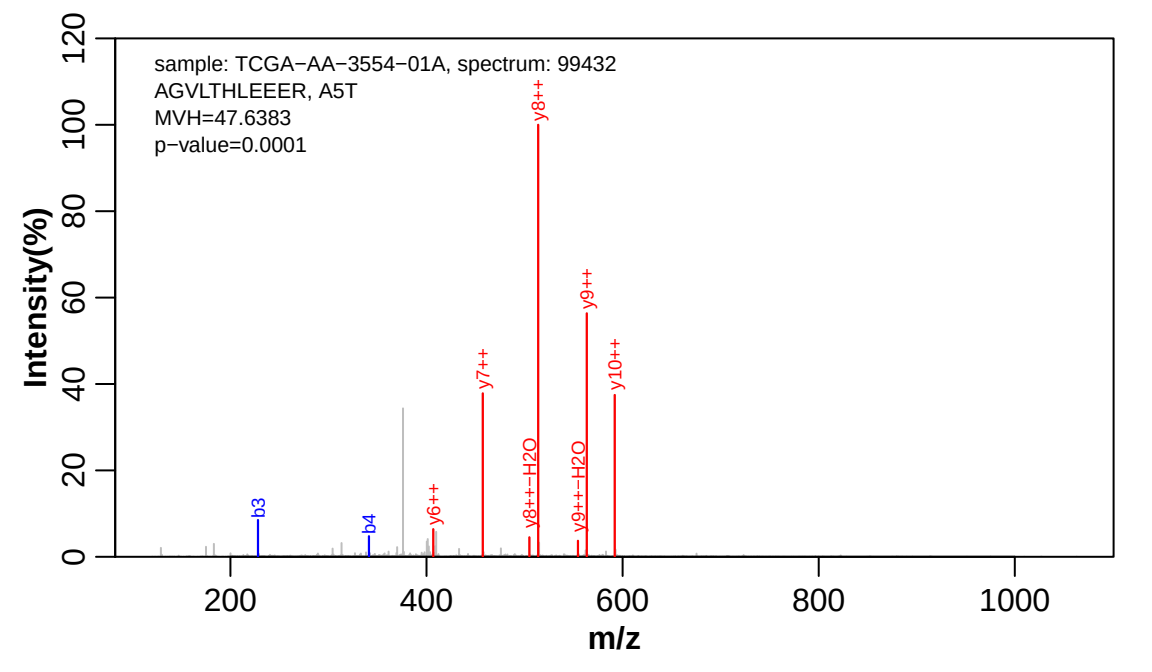

sample: TCGA−AA−3552−01A, spectrum: 4314
VPSFETAEGLGAELK, T12A
MVH=43.4057
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3−H2O
y3
b4−H2O
y4
y5
b5
y6
y6−H2O
y7
b7−H2O−NH3
b7
y8
b8
b9
y9
y10
y10−NH3
b10−H2O
b10
b11−H2O
b11
y11−H2O
y11
b12
y12
b13
y13
b14

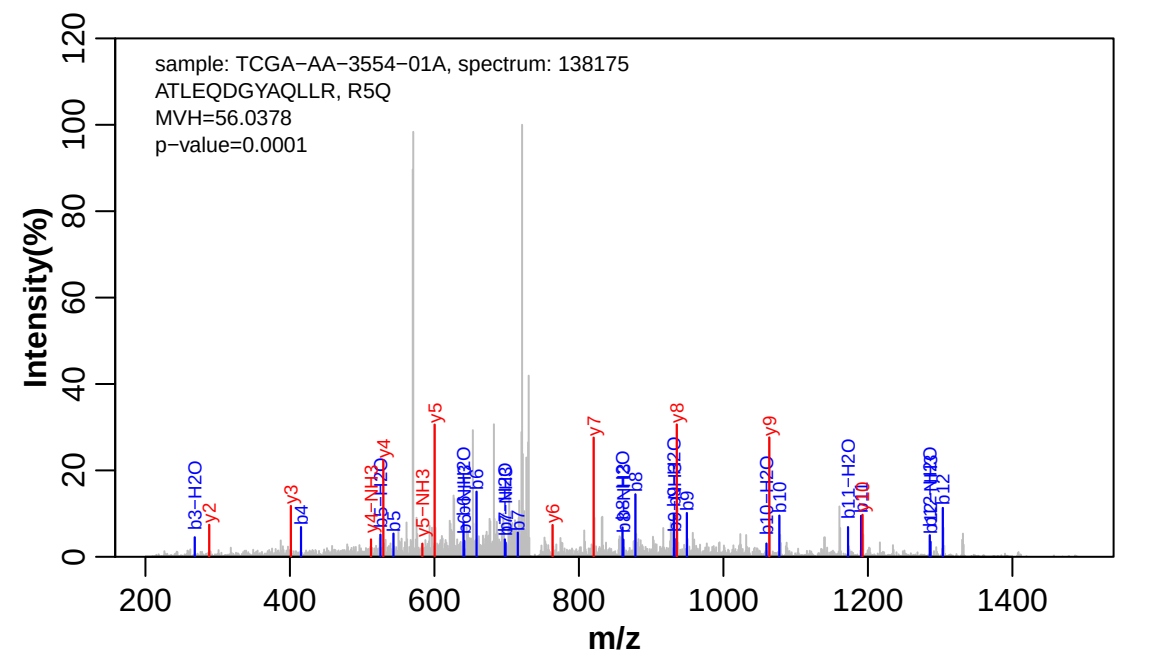

sample: TCGA−AA−3552−01A, spectrum: 1544
YFHNQEEFVR, L9V
MVH=31.8203
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
y3++
y2
b2
y5++−NH3
y5++−H2O
b5++
b3−H2O
b3
b3−NH3
b7++−H2O
y4
y9++
b4
b5
y5−H2O
y6−NH3
b6

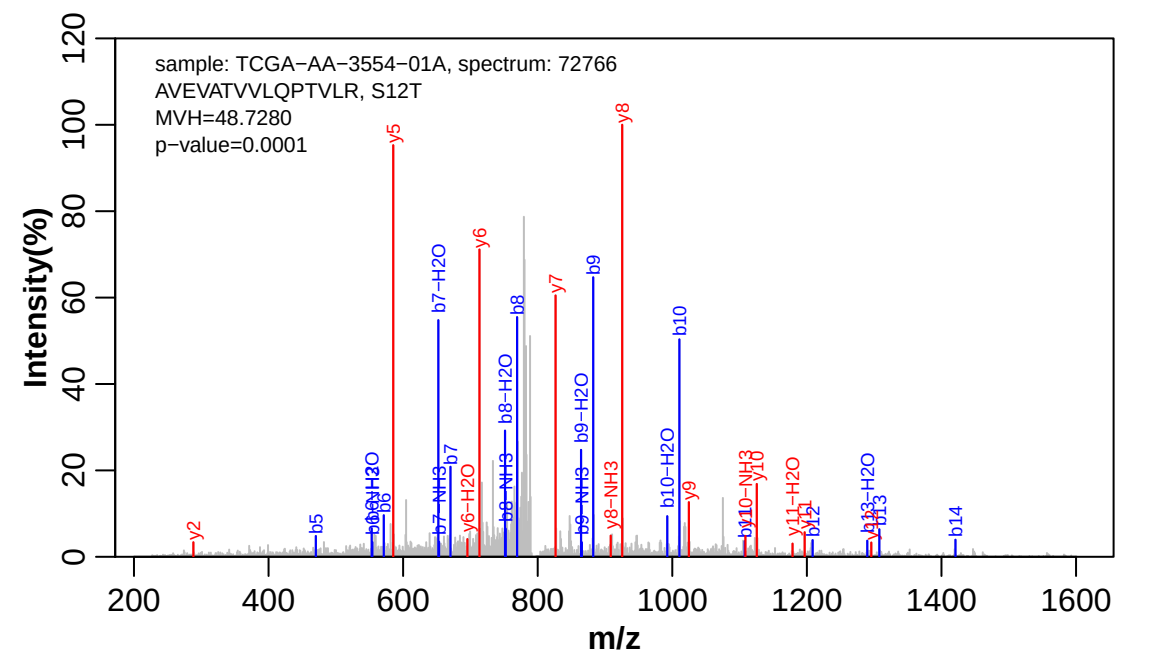

sample: TCGA−AA−3552−01A, spectrum: 97263
YPVDTLPTSK, I3V
MVH=45.9288
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y4−H2O
y4
b4
y5
y6
b6−H2O
b6
y7
y8
b9−NH3

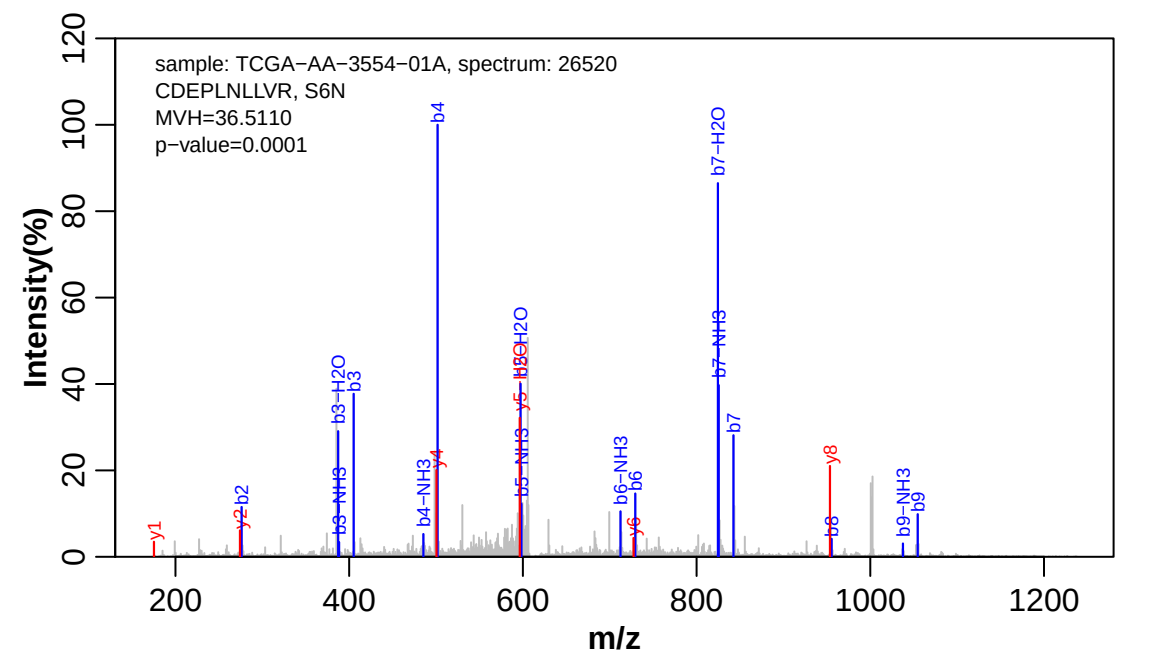

sample: TCGA−AA−3554−01A, spectrum: 44594
AAPSVTLFPPSSEELQANK, T2A
MVH=56.0047
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

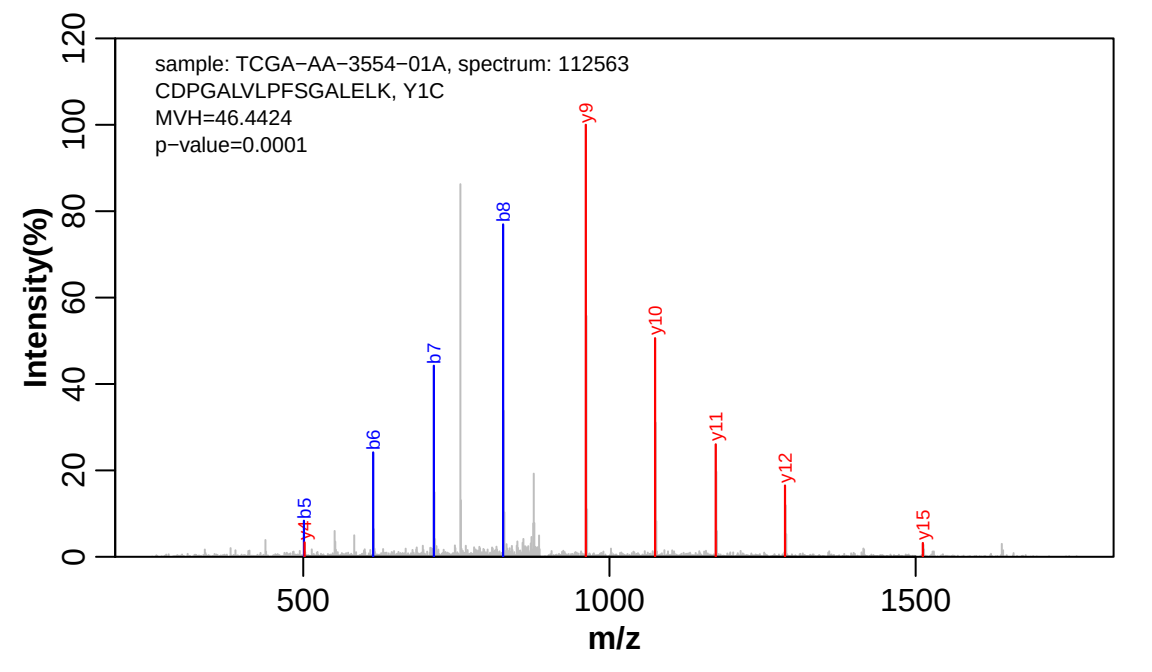

sample: TCGA−AA−3554−01A, spectrum: 10680
AGVETTTPSK, K7T
MVH=50.3071
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−H2O
y7

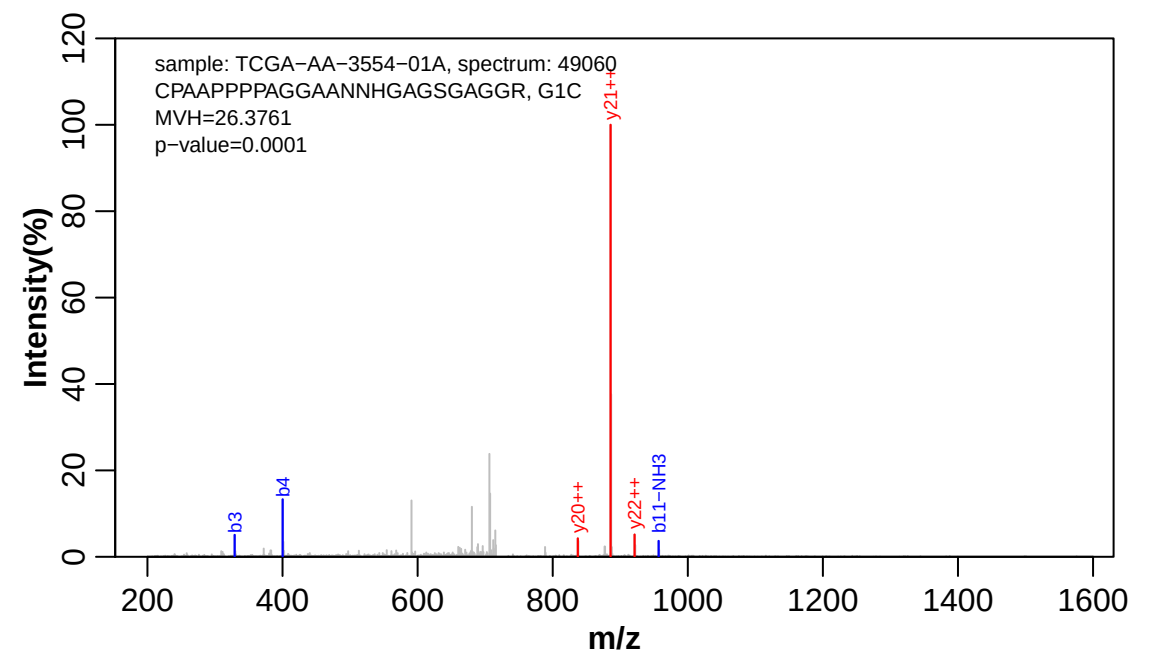

sample: TCGA−AA−3554−01A, spectrum: 99432
AGVLTHLEEER, A5T
MVH=47.6383
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
b4
y6++
y7++
y8++−H2O
y8++
y9++−H2O
y9++
y10++

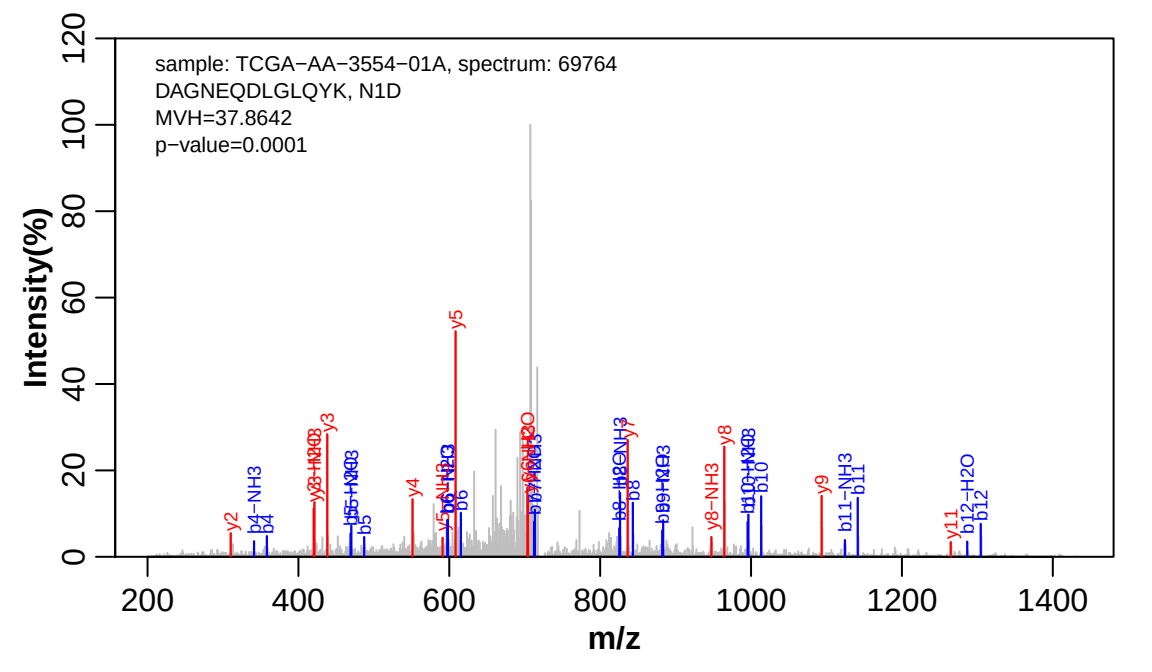

sample: TCGA−AA−3554−01A, spectrum: 138175
ATLEQDGYAQLLR, R5Q
MVH=56.0378
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2
y3
b4
y4−NH3
y4
b5−H2O
b5
y5
y5−NH3
b6−H2O
b6
b7−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−H2O
b9
y9
b10−H2O
b10
b11−H2O
y10
b11
b12−NH3
b12

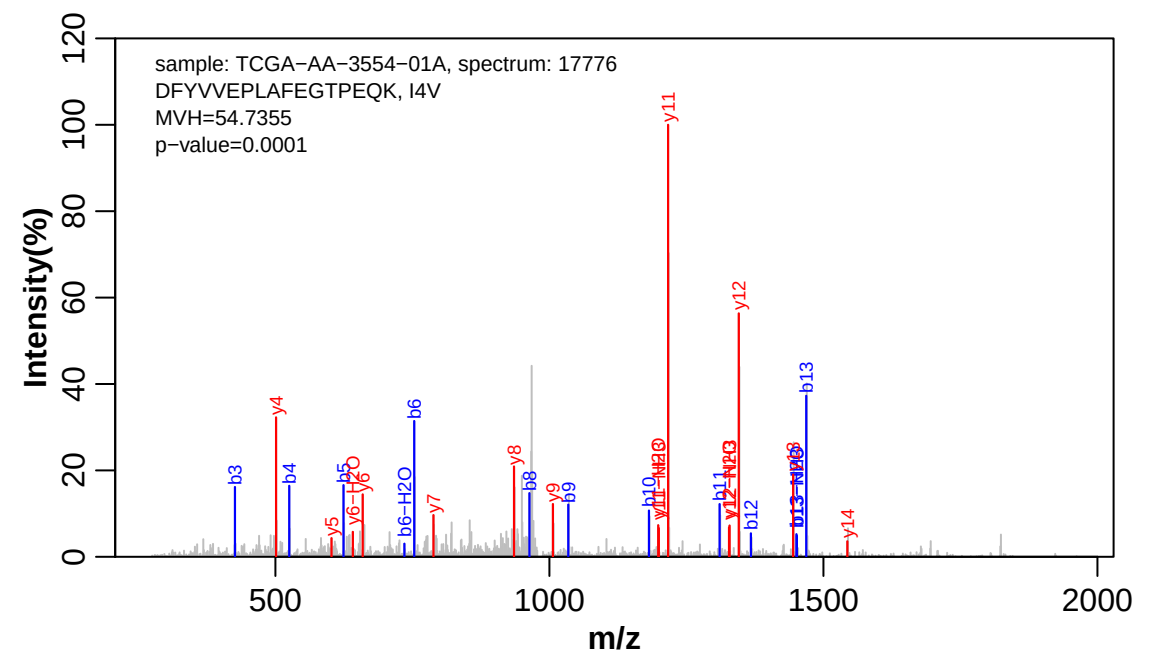

sample: TCGA−AA−3554−01A, spectrum: 72766
AVEVATVVLQPTVLR, S12T
MVH=48.7280
p−value=0.0001
Intensity(%)
m/z
y2
b5
b6
b7
b7−NH3
b7−H2O
y6−H2O
y5
y6
b8
b8−NH3
b8−H2O
y7
b9
b9−NH3
b9−H2O
y8−NH3
y8
b10
b10−H2O
y9
b11−NH3
y10
y11−H2O
b12
b13
b13−H2O
b14

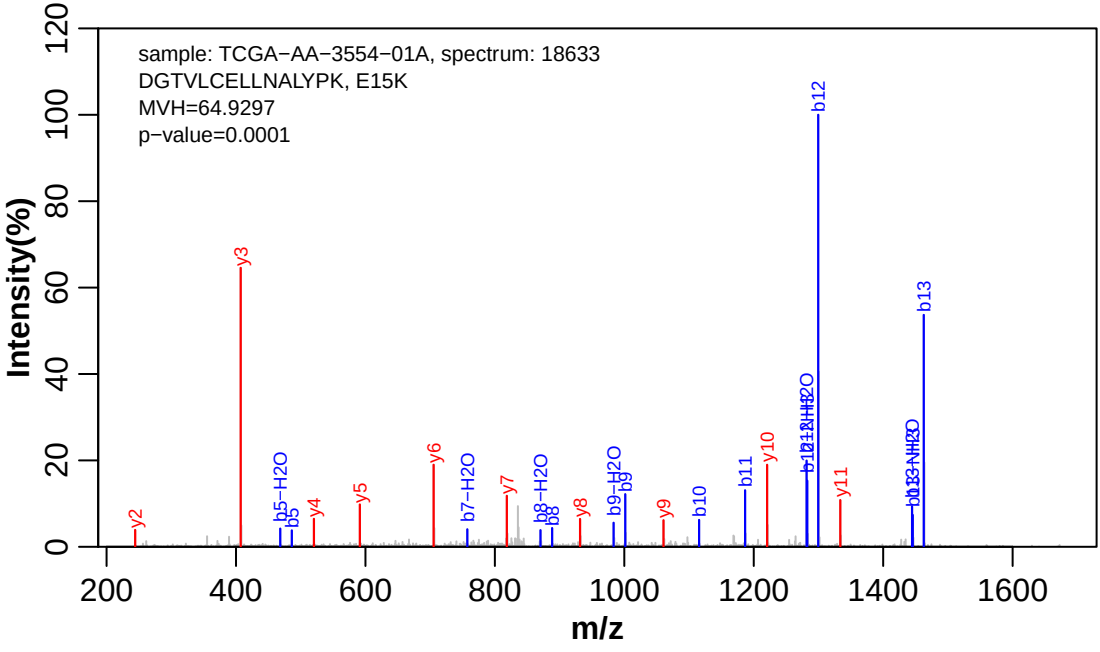

sample: TCGA−AA−3554−01A, spectrum: 26520
CDEPLNLLVR, S6N
MVH=36.5110
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2−b2
b3−H2O
b3
b3−NH3
b4−NH3
y4
b4
b5−NH3
y5−H2O
b6−NH3
b6
y6
b7−H2O
b7−NH3
b7
y8
b8
b9−NH3
b9

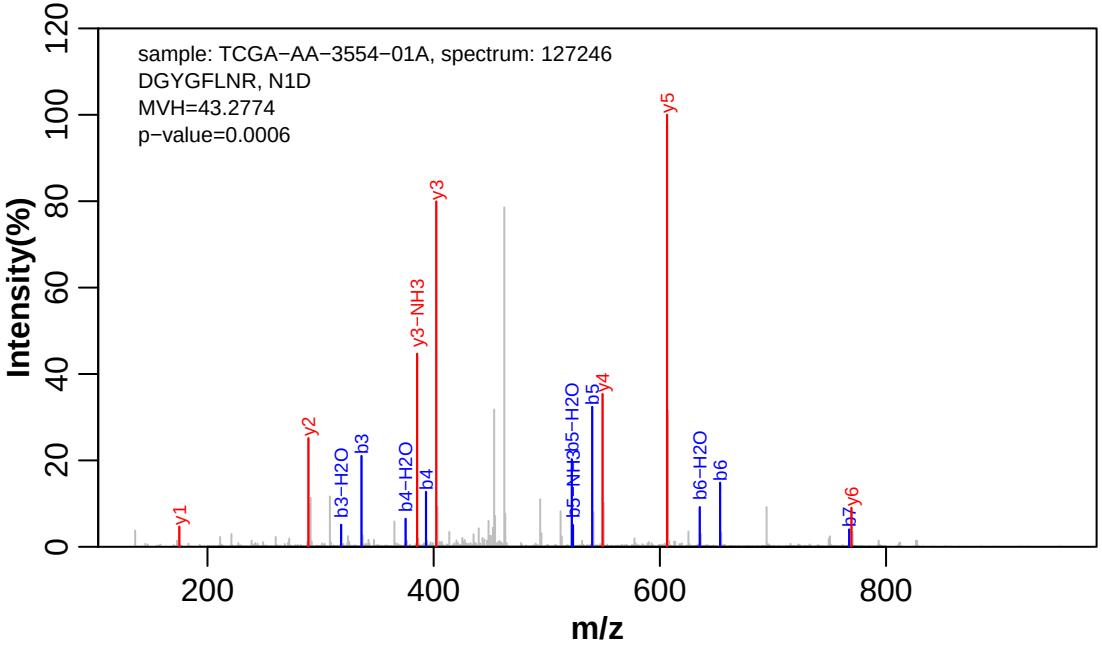

sample: TCGA−AA−3554−01A, spectrum: 112563
CDPGALVLPFSGALELK, Y1C
MVH=46.4424
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
b7
b8
y9
y10
y11
y12
y15

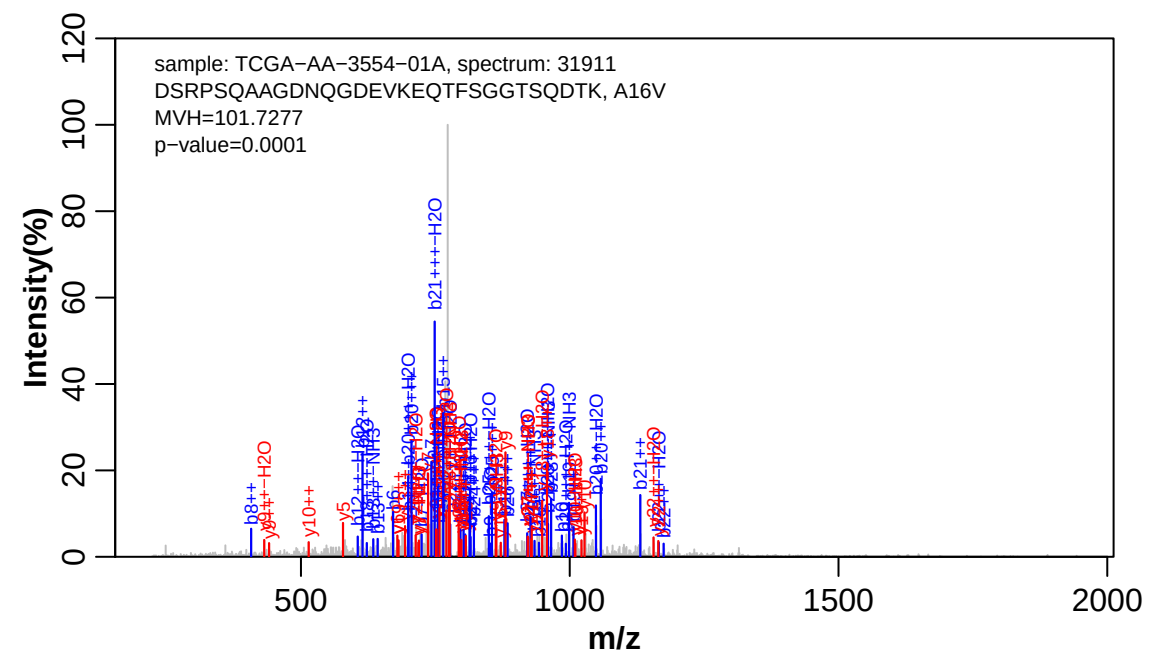

sample: TCGA−AA−3554−01A, spectrum: 49060
CPAAPPPPAGGAANNHGAGSGAGGR, G1C
MVH=26.3761
p−value=0.0001
y21++
b3
b4
y20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

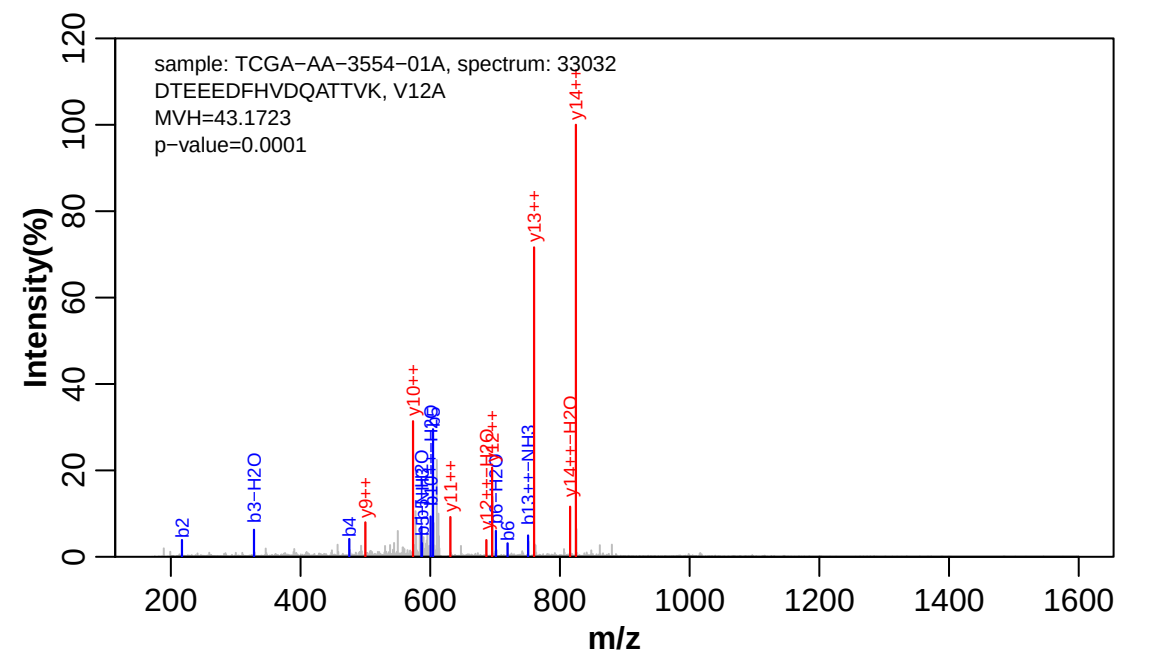

sample: TCGA−AA−3554−01A, spectrum: 69764
DAGNEQDLGLQYK, N1D
MVH=37.8642
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−NH3
b4
y3
y3−H2O
y3−NH3
b5−H2O
b5−NH3
b5
y4
y5
y5−H2O
y5−NH3
b6−H2O
b6−NH3
b6
b7−H2O
b7−NH3
y7
y7−H2O
y7−NH3
b8−H2O
b8−NH3
b8
b9−H2O
b9−NH3
y8
y8−H2O
y8−NH3
b10−H2O
b10−NH3
b10
y9
b11−NH3
b11
y11
b12−H2O
b12

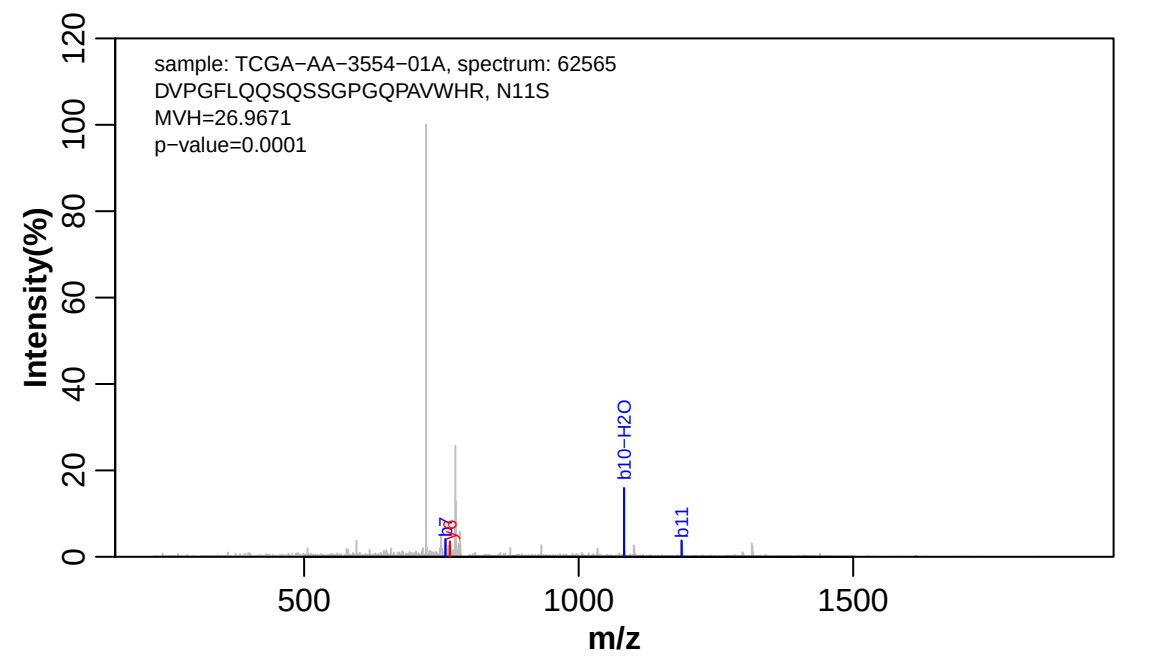

sample: TCGA−AA−3554−01A, spectrum: 17776
DFYVVEPLAFEGTPEQK, I4V
MVH=54.7355
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7
y8
b8
y9
b9
y11
b10
b11
y12
b12
b13
y14

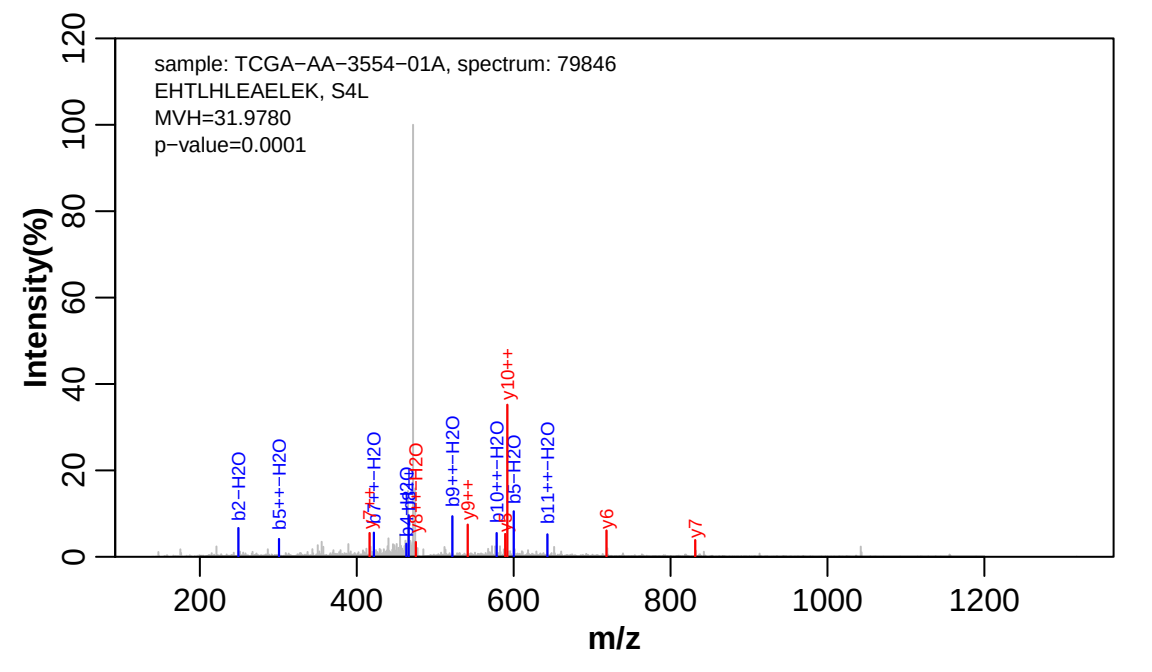

sample: TCGA−AA−3554−01A, spectrum: 18633
DGTVLCELLNALYPK, E15K
MVH=64.9297
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b5−H2O
b5
y4
y5
y6
b7−H2O
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10
b11
y10
b12
y11
b13

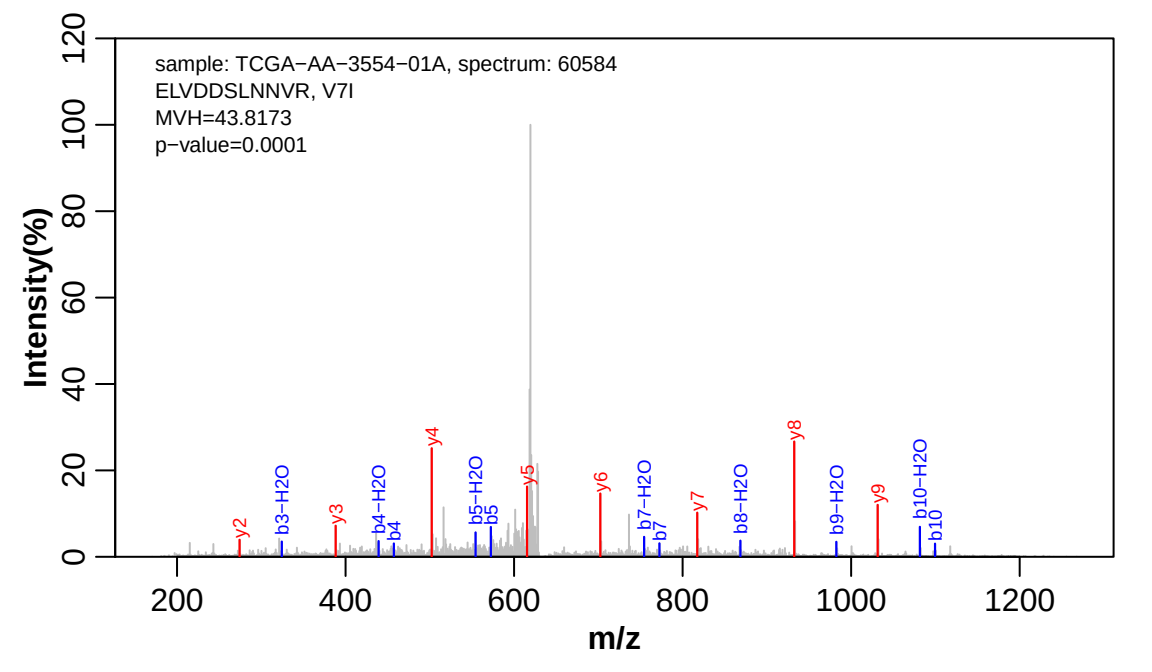

sample: TCGA−AA−3554−01A, spectrum: 127246
DGYGFLNR, N1D
MVH=43.2774
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

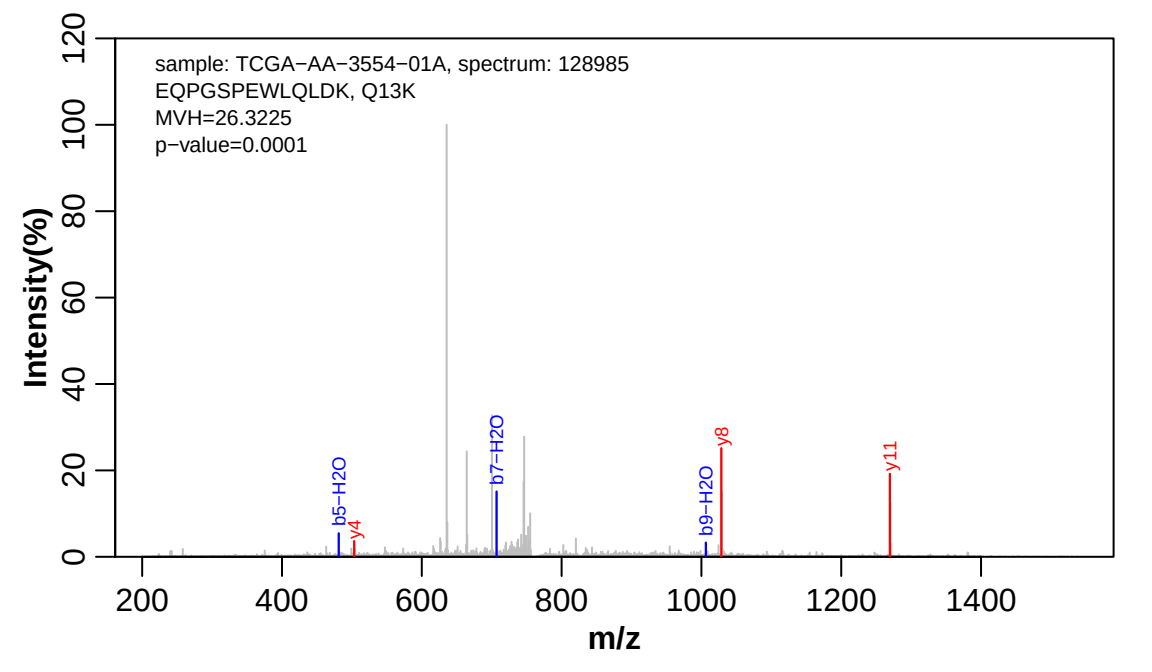

sample: TCGA−AA−3554−01A, spectrum: 31911
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=101.7277
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b21+++−H2O
b8++
y11++−H2O
y10++
y5
b21++
b20++−H2O

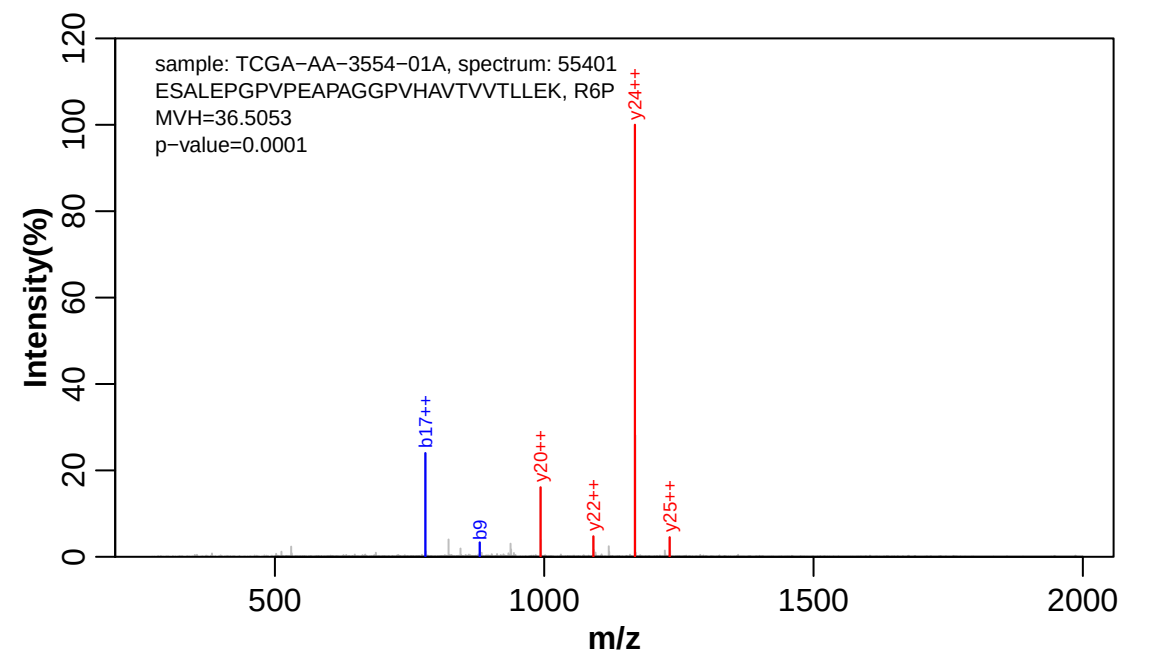

sample: TCGA−AA−3554−01A, spectrum: 33032
DTEEEDFHVDQATTVK, V12A
MVH=43.1723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b4
y9++
y10++
y11++
y12++−H2O
y6−H2O
b6
b13++−NH3
y13++
y14++−H2O
y14++

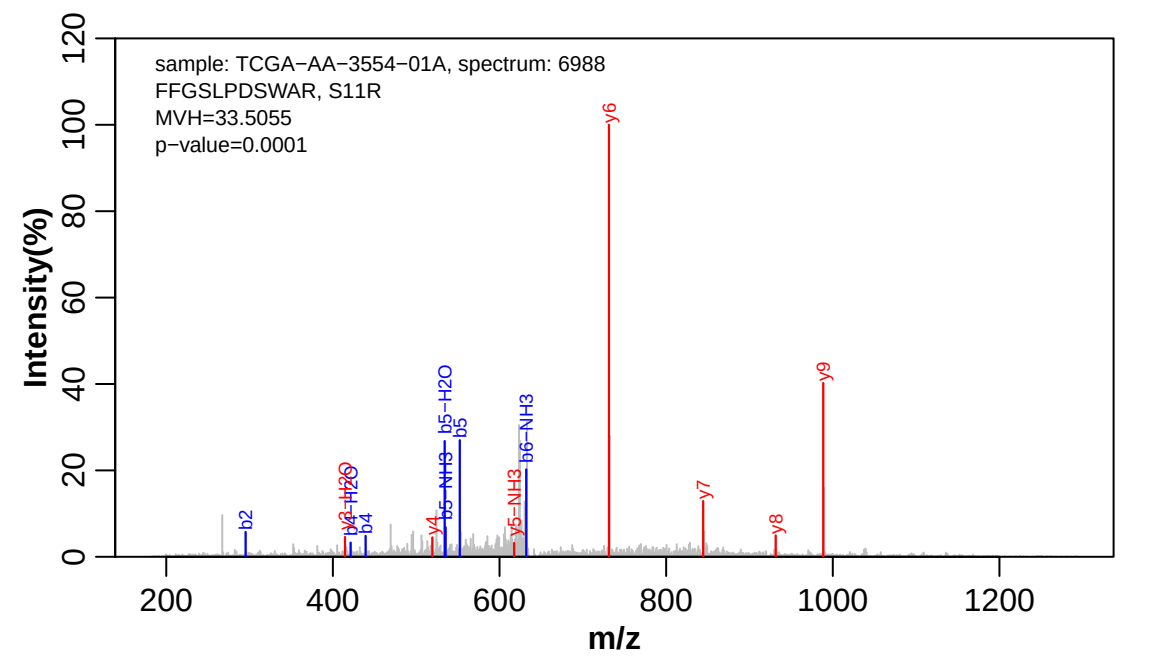

sample: TCGA−AA−3554−01A, spectrum: 62565
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=26.9671
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b10−H2O
b11
b7
y3

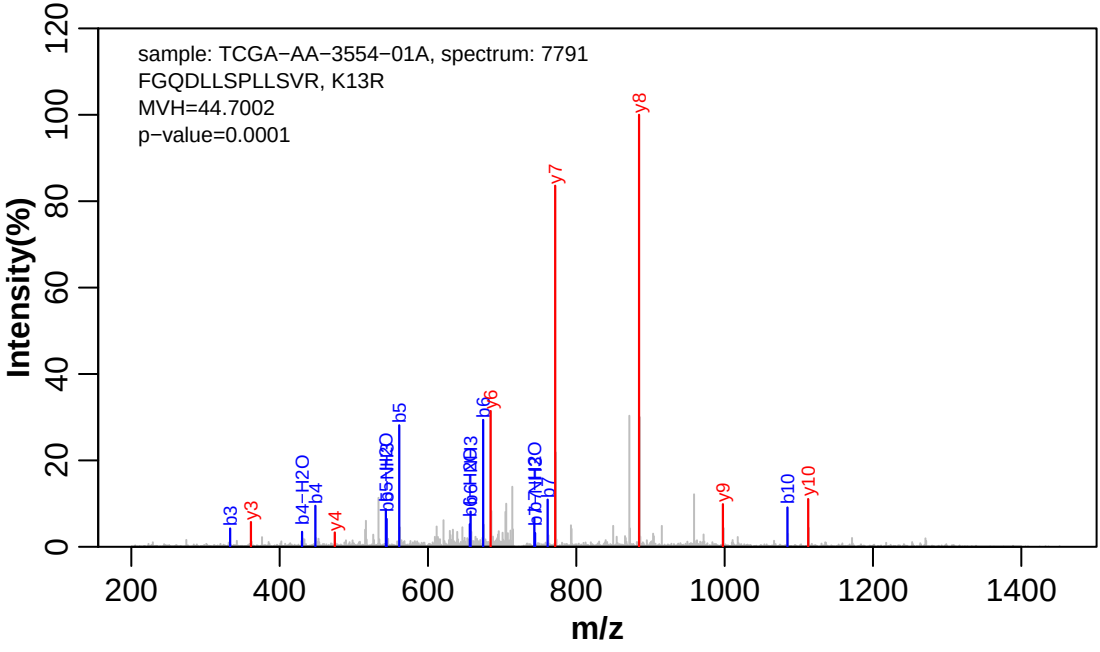

sample: TCGA−AA−3554−01A, spectrum: 79846
EHTLHLEAELEK, S4L
MVH=31.9780
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b5++−H2O
y7++−H2O
b9++−H2O
y9++
b10++−H2O
y8
b5−H2O
y10++
b11++−H2O
y6
y7

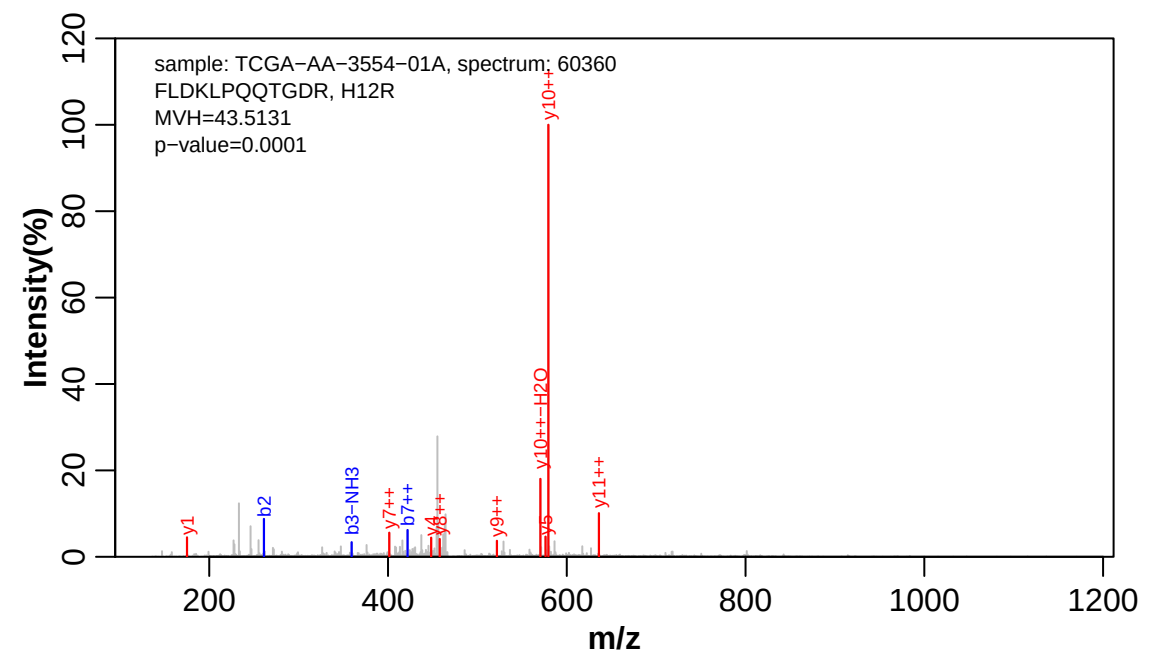

sample: TCGA−AA−3554−01A, spectrum: 60584
ELVDDSLNNVR, V7I
MVH=43.8173
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
b8−H2O
y8
b9−H2O
y9
b10−H2O
b10

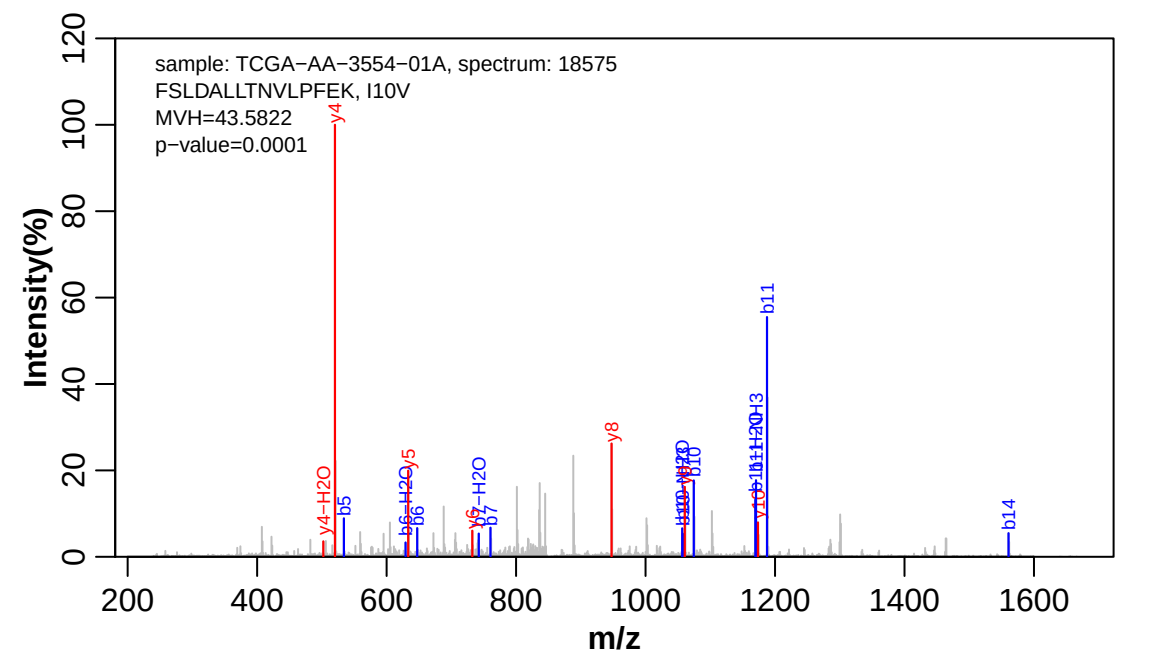

sample: TCGA−AA−3554−01A, spectrum: 128985
EQPGSPEWLQLDK, Q13K
MVH=26.3225
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
b9−H2O
y8
y11

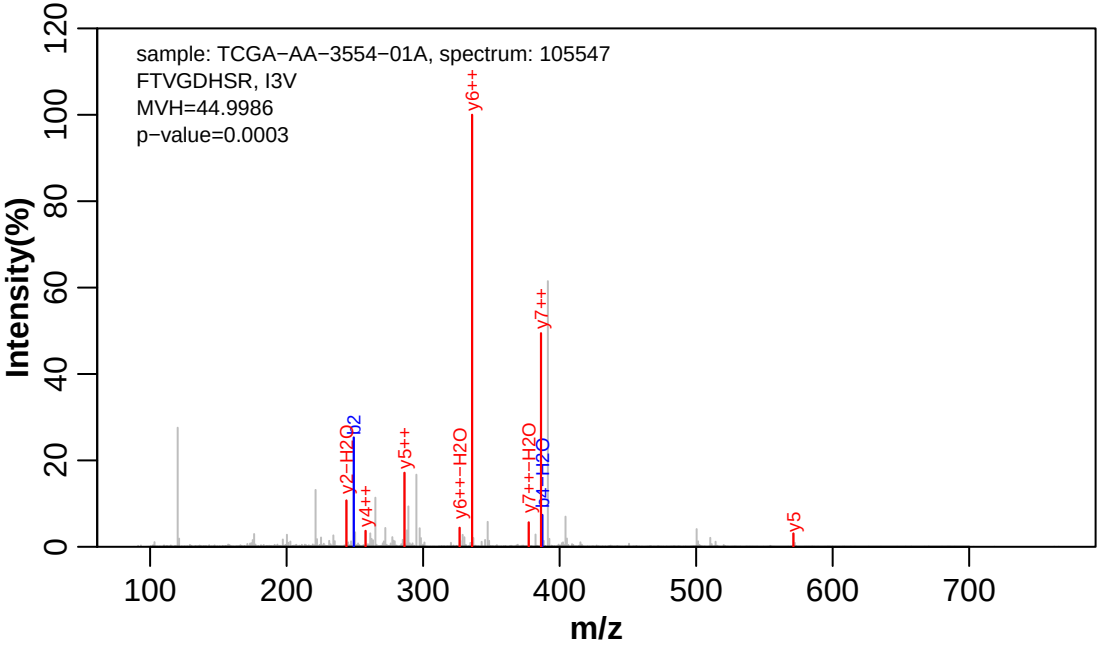

sample: TCGA−AA−3554−01A, spectrum: 55401
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=36.5053
p−value=0.0001
y24++
b17++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

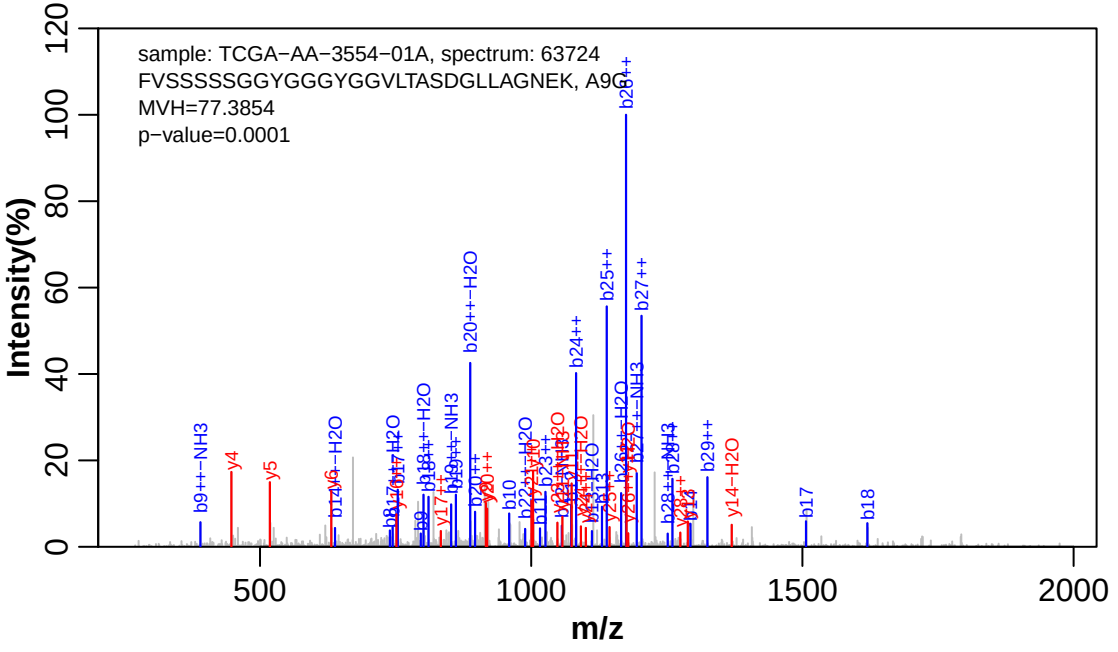

sample: TCGA−AA−3554−01A, spectrum: 6988
FFGSLPDSWAR, S11R
MVH=33.5055
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y4−H2O
y3−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
b6−NH3
y6
y7
y8
y9

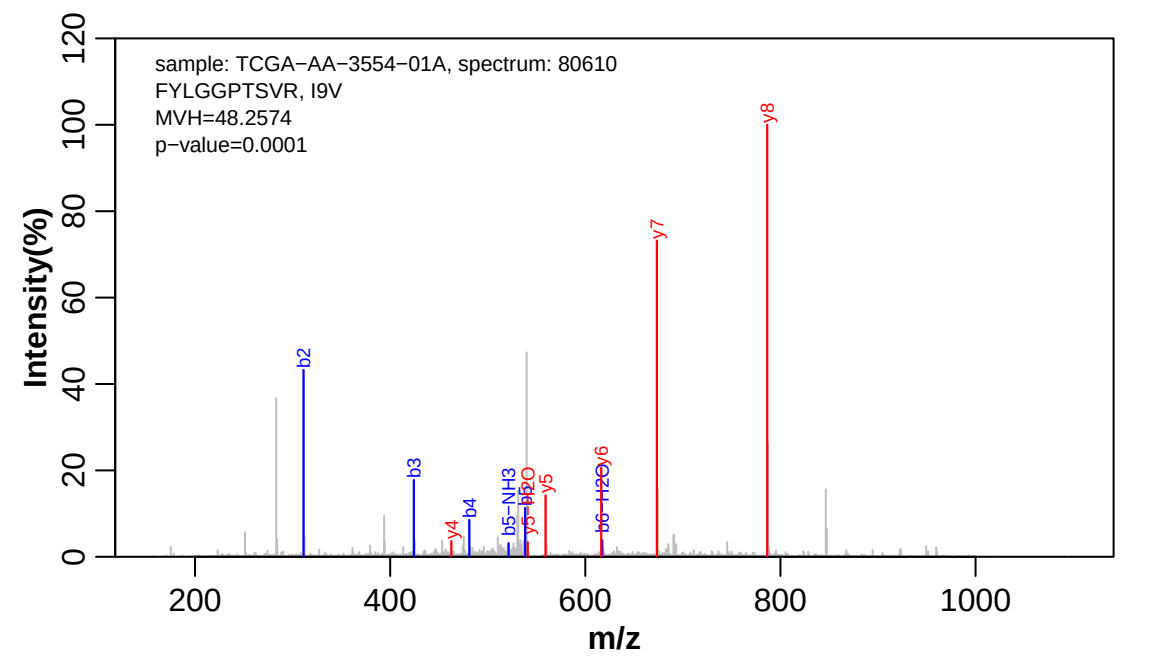

sample: TCGA−AA−3554−01A, spectrum: 7791
FGQDLLSPLLSVR, K13R
MVH=44.7002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y6
y7
y8
b7
y9
b10
y10

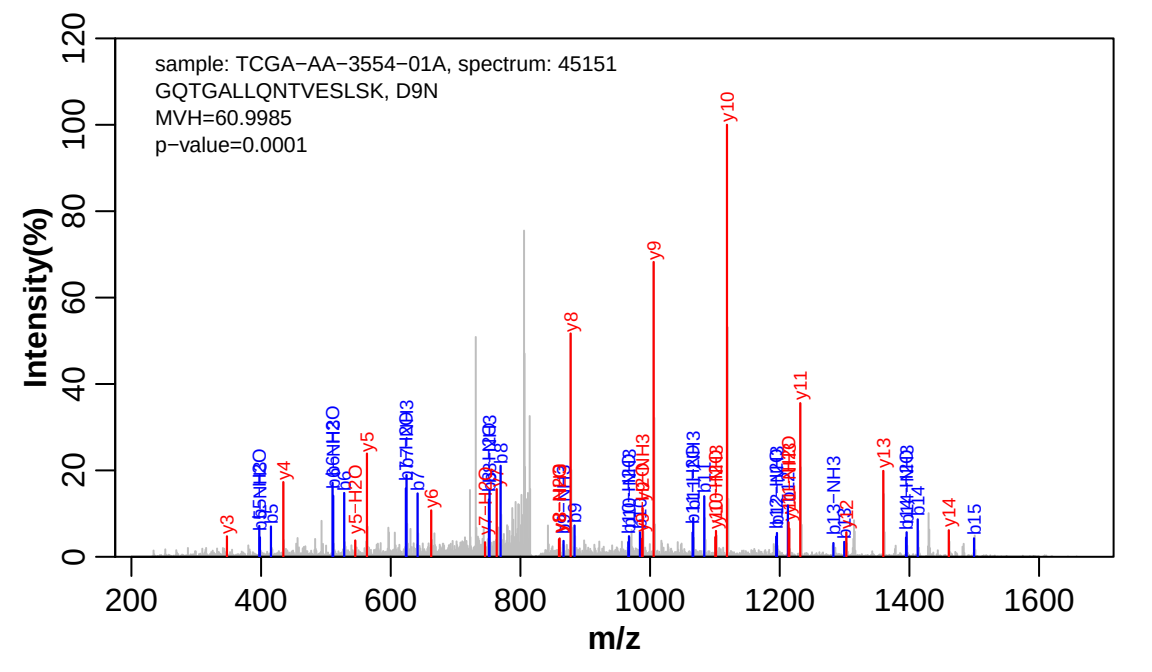

sample: TCGA−AA−3554−01A, spectrum: 60360
FLDKLPQQTGDR, H12R
MVH=43.5131
p−value=0.0001
Intensity(%)
m/z
y1
b2
b3−NH3
y7++
b7++
y8++
y9++
y10++−H2O
y10++
y11++

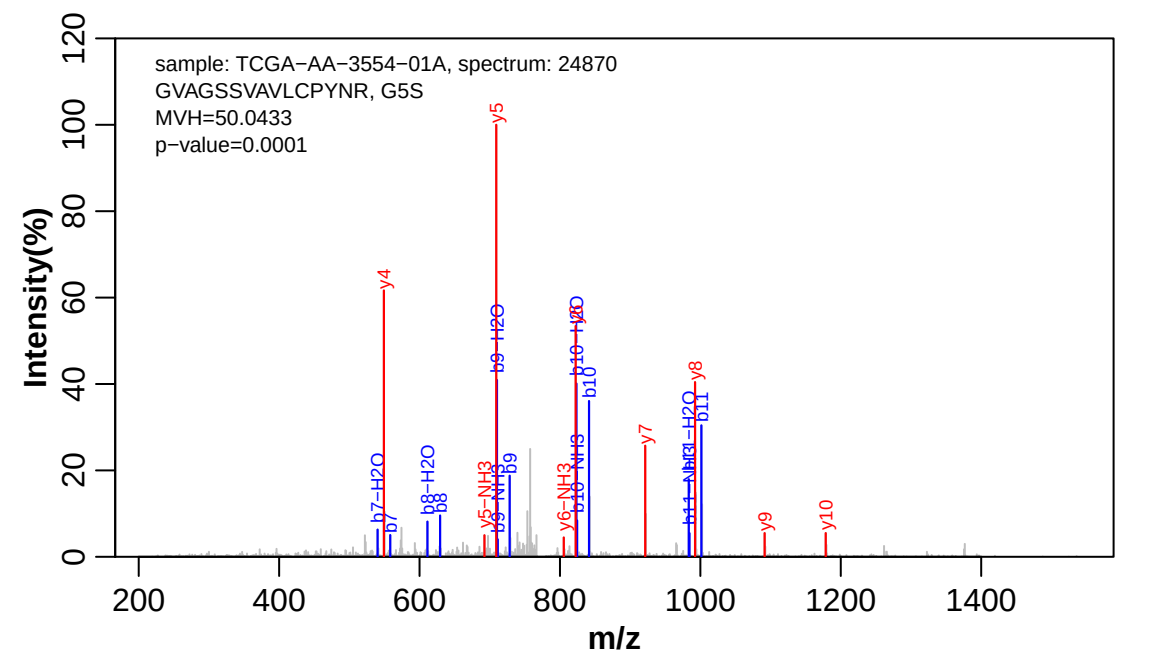

sample: TCGA−AA−3554−01A, spectrum: 18575
FSLDALLTNVLPFEK, I10V
MVH=43.5822
p−value=0.0001
Intensity(%)
m/z
y4
y4−H2O
b5
b6−H2O
y5
b6
y6
y6−H2O
b7
y8
b10−NH3
b10−H2O
b10
b11
b11−NH3
b11−H2O
b14

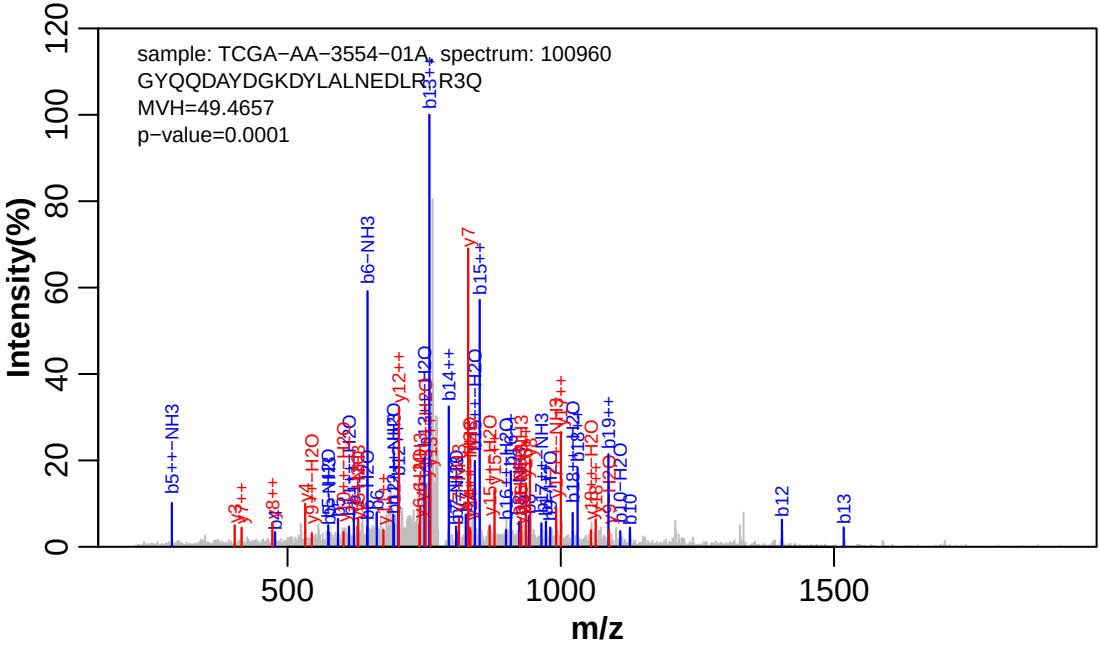

sample: TCGA−AA−3554−01A, spectrum: 105547
FTVGDHSR, I3V
MVH=44.9986
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y5++
y2−H2O
b2
y4++
y6++−H2O
y7++−H2O
b4−H2O
y5

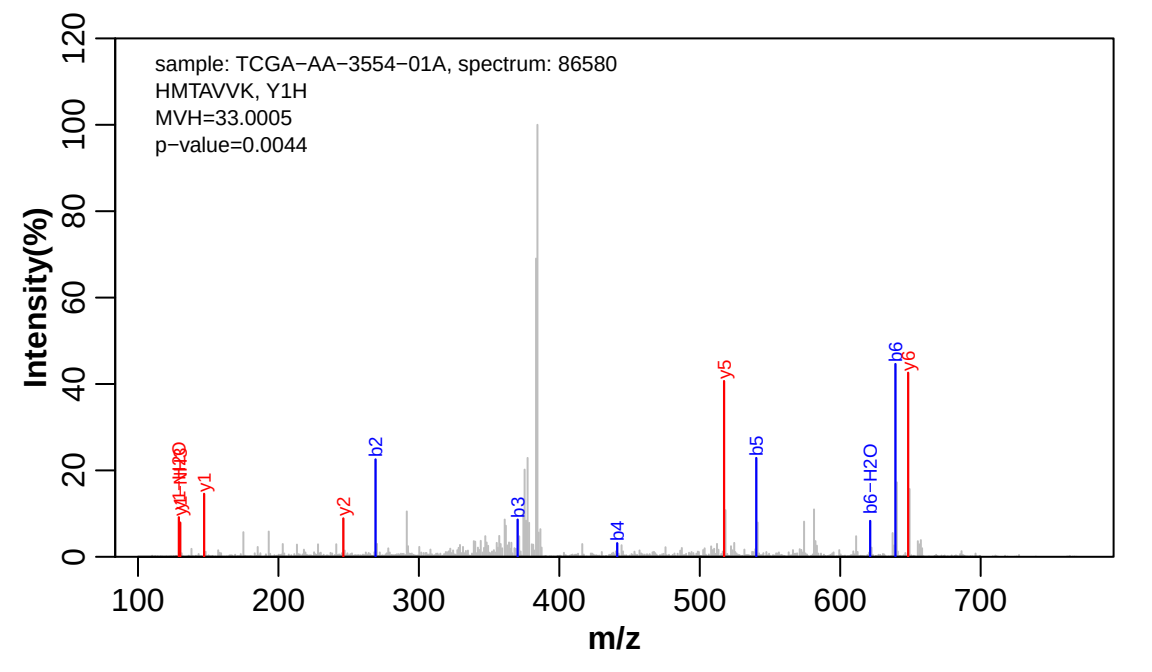

sample: TCGA−AA−3554−01A, spectrum: 63724
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=77.3854
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
b14++−H2O
b17++−H2O
b18++−H2O
b18++−NH3
v17++
b20++−H2O
b10
b22++−H2O
b23++
b24++
b25++
b27++
b28++−H2O
b29++
y14−H2O
b17
b18

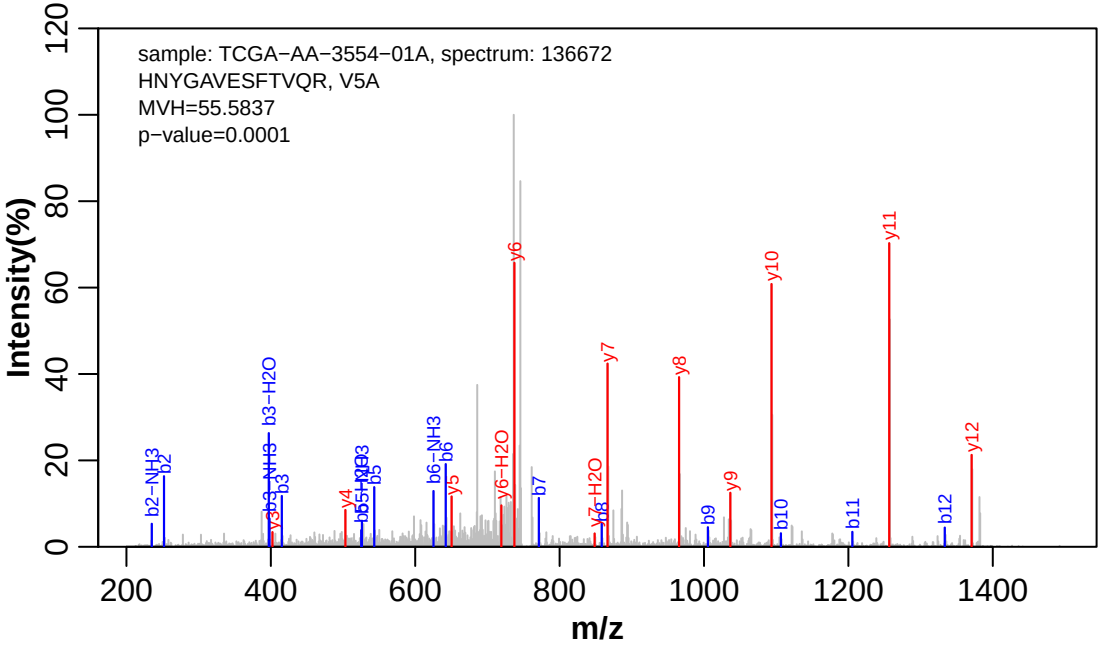

sample: TCGA−AA−3554−01A, spectrum: 80610
FYLGGPTSVR, I9V
MVH=48.2574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
y4
b4
b5−NH3
y5−H2O
b5
y5
b6−H2O
y6
y7
y8

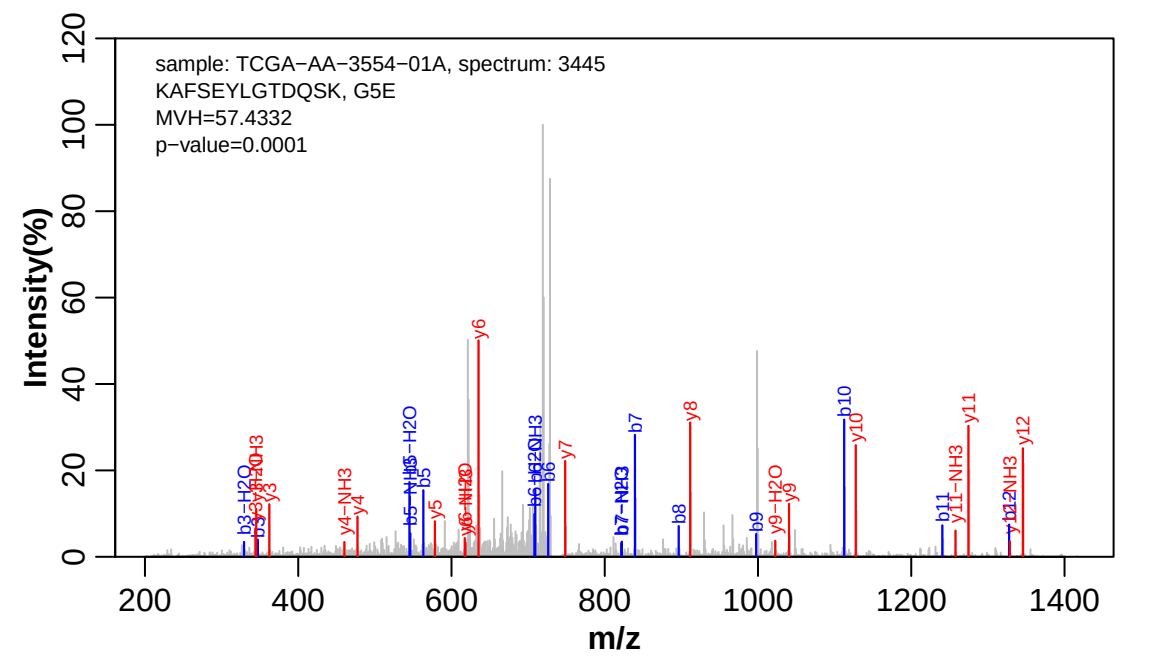

sample: TCGA−AA−3554−01A, spectrum: 45151
GQTGALLQNTVESLSK, D9N
MVH=60.9985
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y4
y3
y6
b15
b5
b6
b7

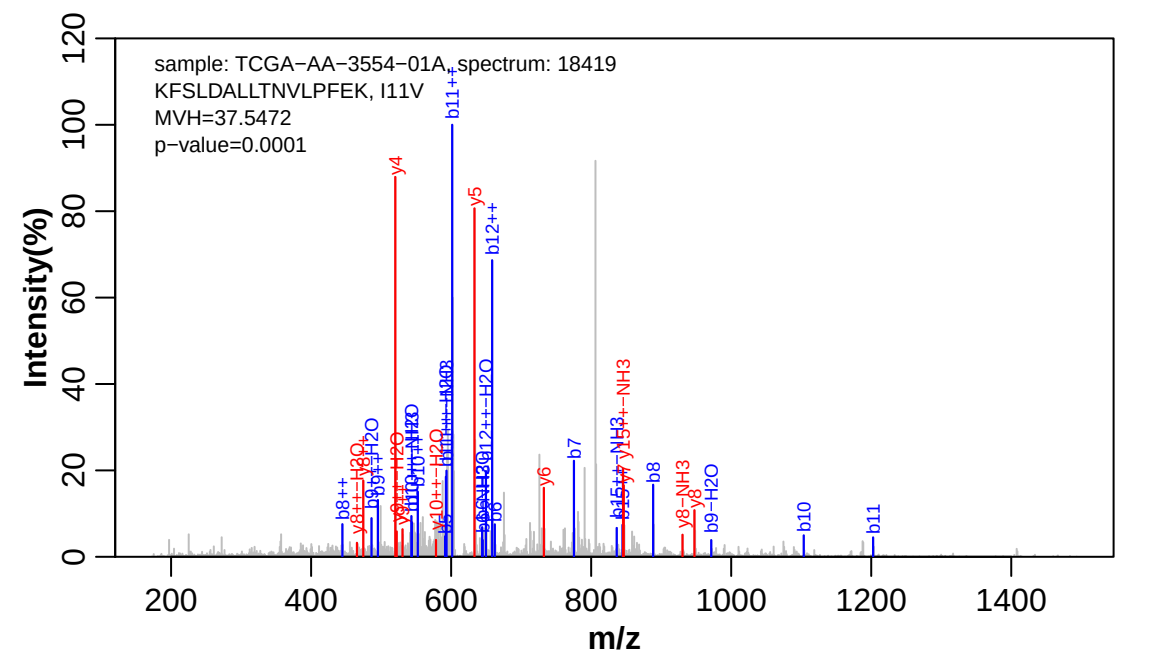

sample: TCGA−AA−3554−01A, spectrum: 24870
GVAGSSVAVLCPYNR, G5S
MVH=50.0433
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
b11
y7
b7−H2O
b8−H2O
b7
b8
y5−NH3
b9
y6−NH3
b10−NH3
y9
y10

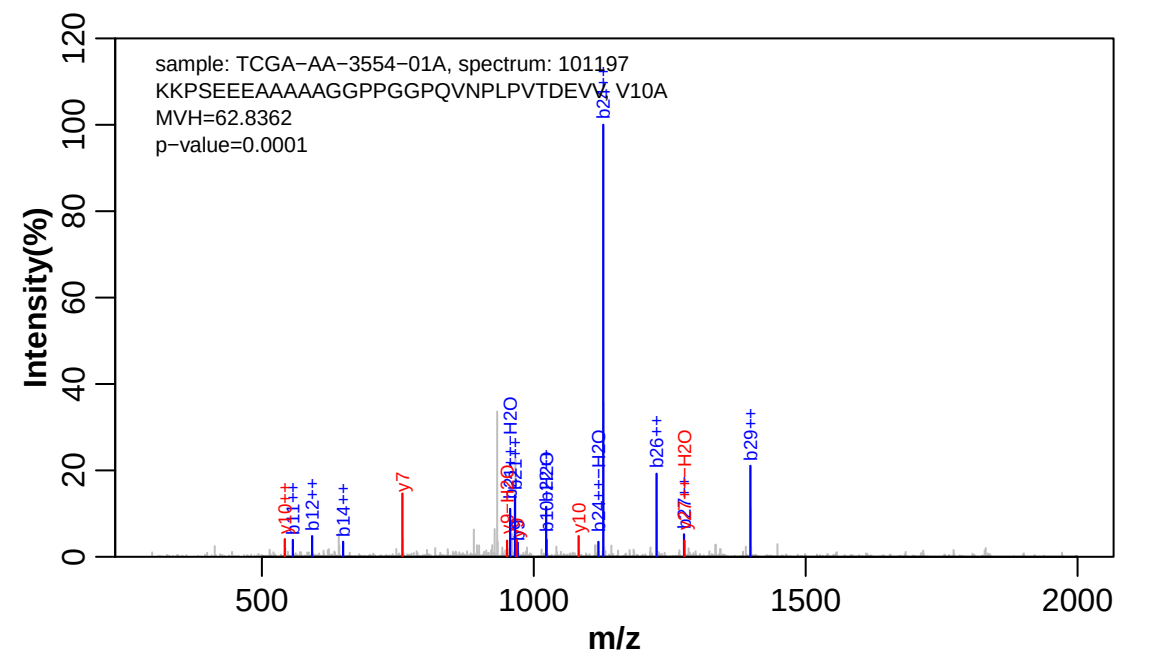

sample: TCGA−AA−3554−01A, spectrum: 100960
GYQQDAYDGKDYLALNEDLRSR3Q
MVH=49.4657
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
b6−NH3
b5++−NH3
b14++
y12++
y7
b15++
b19++
b12
b13

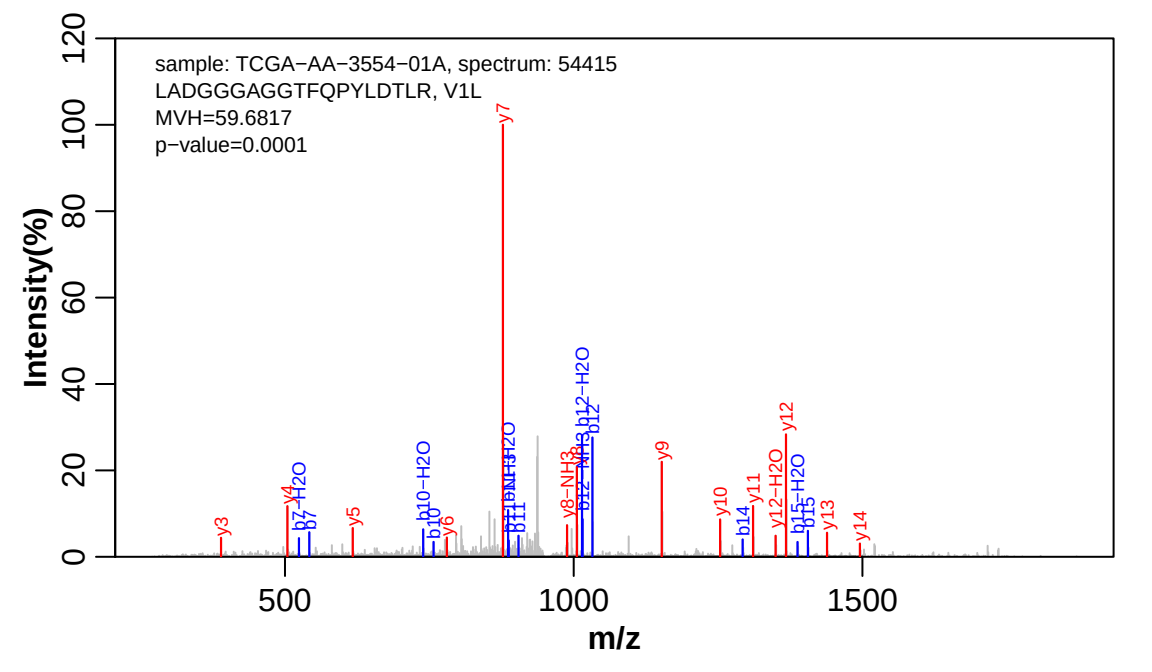

sample: TCGA−AA−3554−01A, spectrum: 86580
HMTAVVK, Y1H
MVH=33.0005
p−value=0.0044
Intensity(%)
m/z
y1−NH3
y1−H2O
y1
y2
b2
b3
b4
y5
b5
b6−H2O
b6
y6

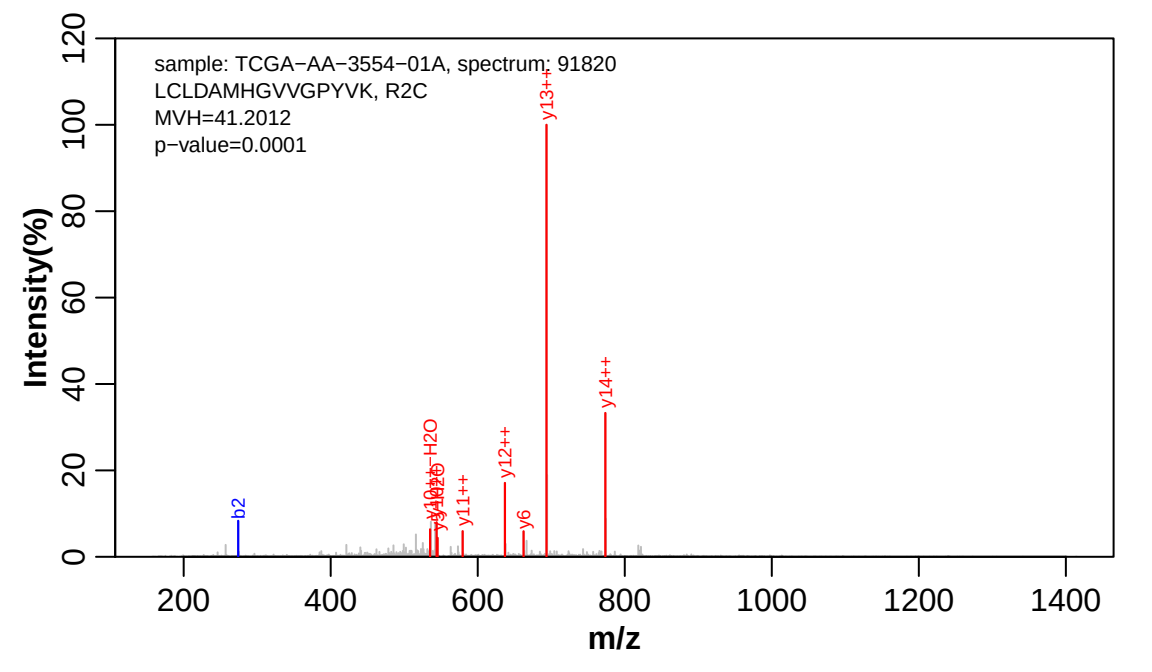

sample: TCGA−AA−3554−01A, spectrum: 136672
HNYGAVESFTVQR, V5A
MVH=55.5837
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
b3−NH3
b3−H2O
b3
y3
y4
b5−NH3
b5−H2O
b5
b6−NH3
b6
y5
y6−H2O
y6
b7
y7−H2O
y7
y8
b9
y9
b10
y10
b11
y11
b12
y12

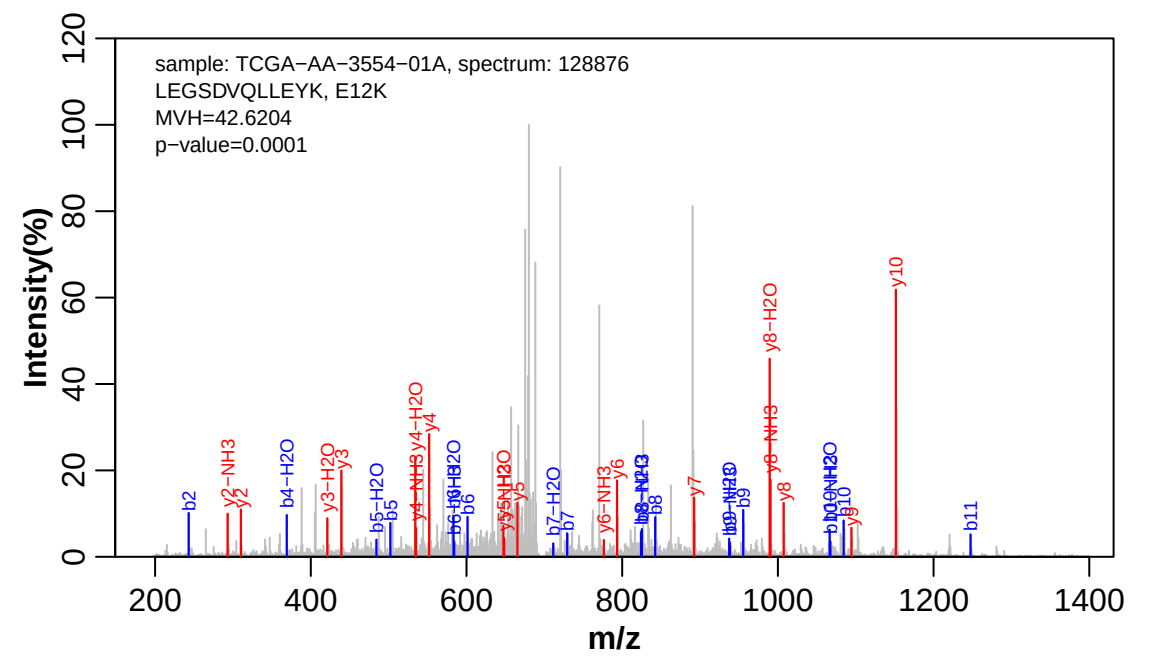

sample: TCGA−AA−3554−01A, spectrum: 3445
KAFSEYLGTDQSK, G5E
MVH=57.4332
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y3
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
y6−NH3
y6−H2O
y6
b6−NH3
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
b8
y8
b9
y9−H2O
y9
b10
y10
b11
y11−NH3
y11
y12−NH3
y12

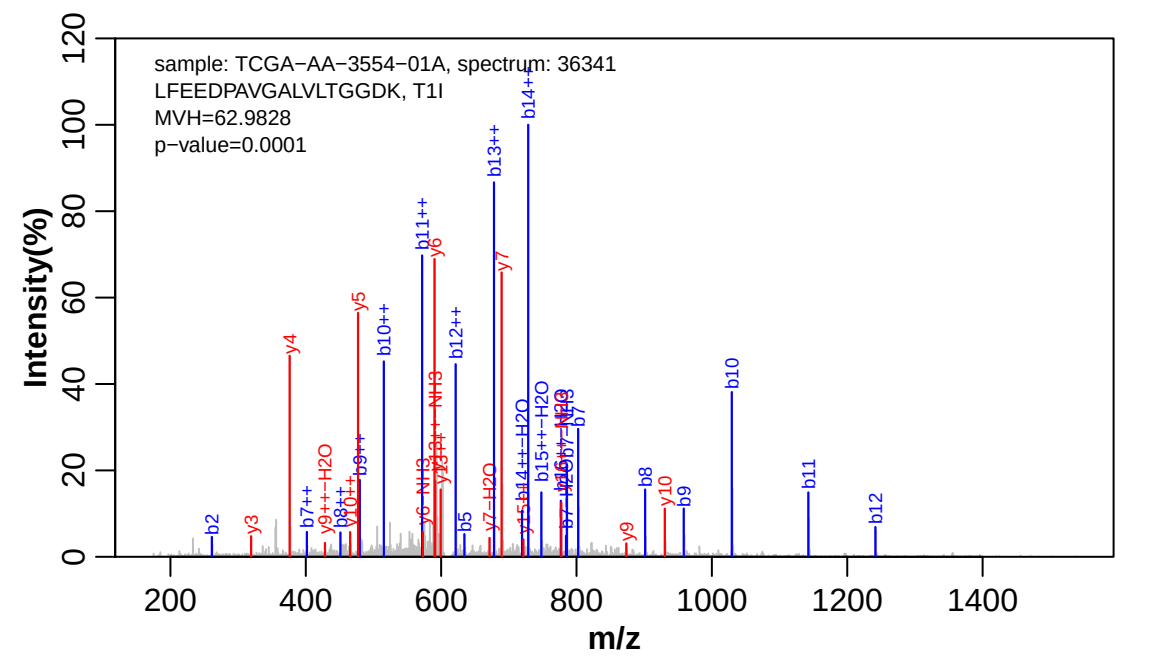

sample: TCGA−AA−3554−01A, spectrum: 18419
KFSLDALLTNVLPFEK, I11V
MVH=37.5472
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b11++
y4
y5
b12++
b12++−H2O
b7
y6
b8
y8−NH3
y8
b9−H2O
b10
b11
b8++
b9++
y5++−NH3

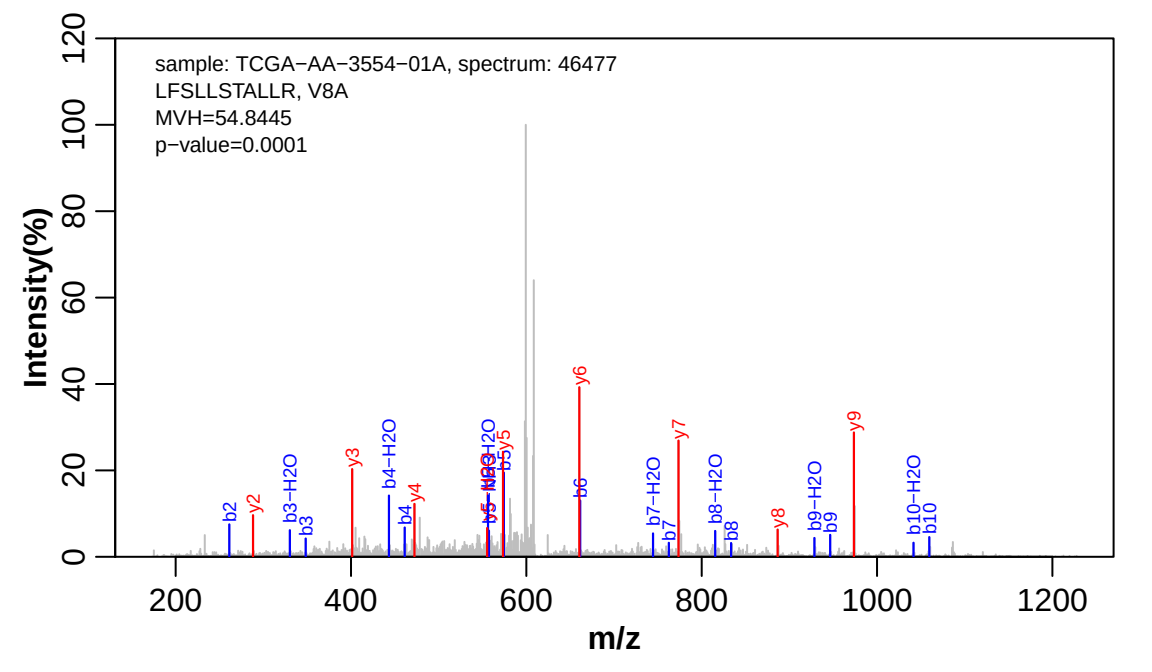

sample: TCGA−AA−3554−01A, spectrum: 101197
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV V10A
MVH=62.8362
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b26++
b29++
b24++−H2O
b27++−H2O
y10
y7
b12++
b14++
b11++
y10++

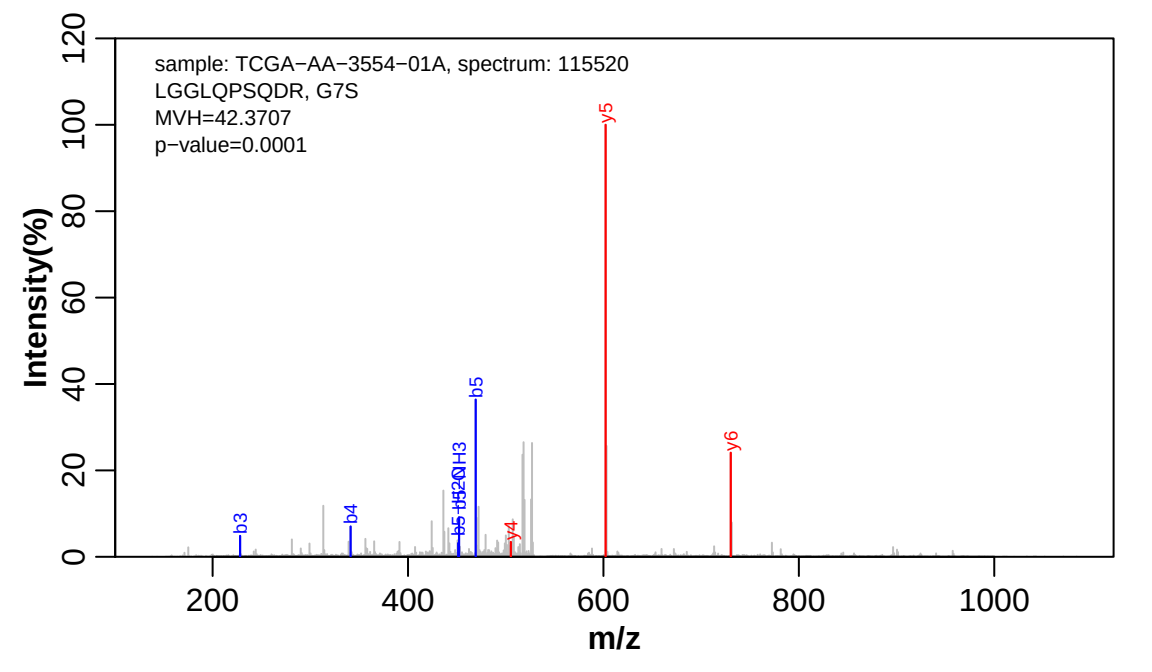

sample: TCGA−AA−3554−01A, spectrum: 54415
LADGGGAGGTFQPYLDTLR, V1L
MVH=59.6817
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b7−H2O
b7
y5
b10−H2O
b10
y6
y7
b11−H2O
b11
y8−NH3
y8
b12−NH3
b12
b12−H2O
y9
y10
b14
y11
y12−H2O
y12
b15−H2O
b15
y13
y14

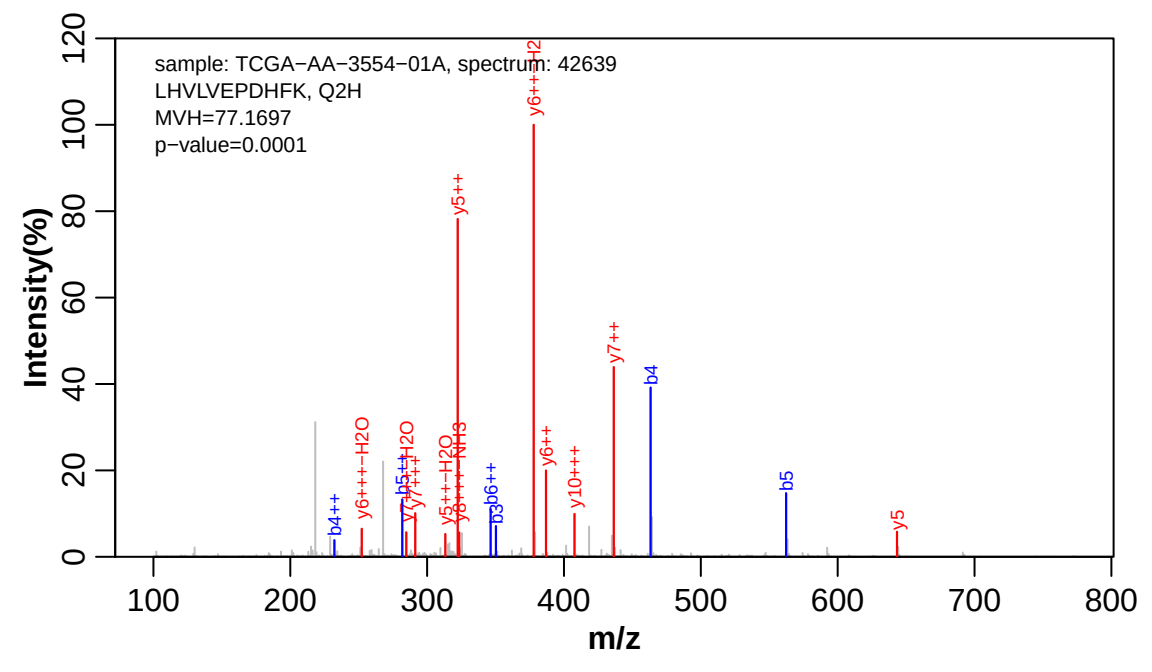

sample: TCGA−AA−3554−01A, spectrum: 91820
LCLDAMHGVVGPYVK, R2C
MVH=41.2012
p−value=0.0001
Intensity(%)
m/z
b2
y11++
y12++
y13++
y14++
y6
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

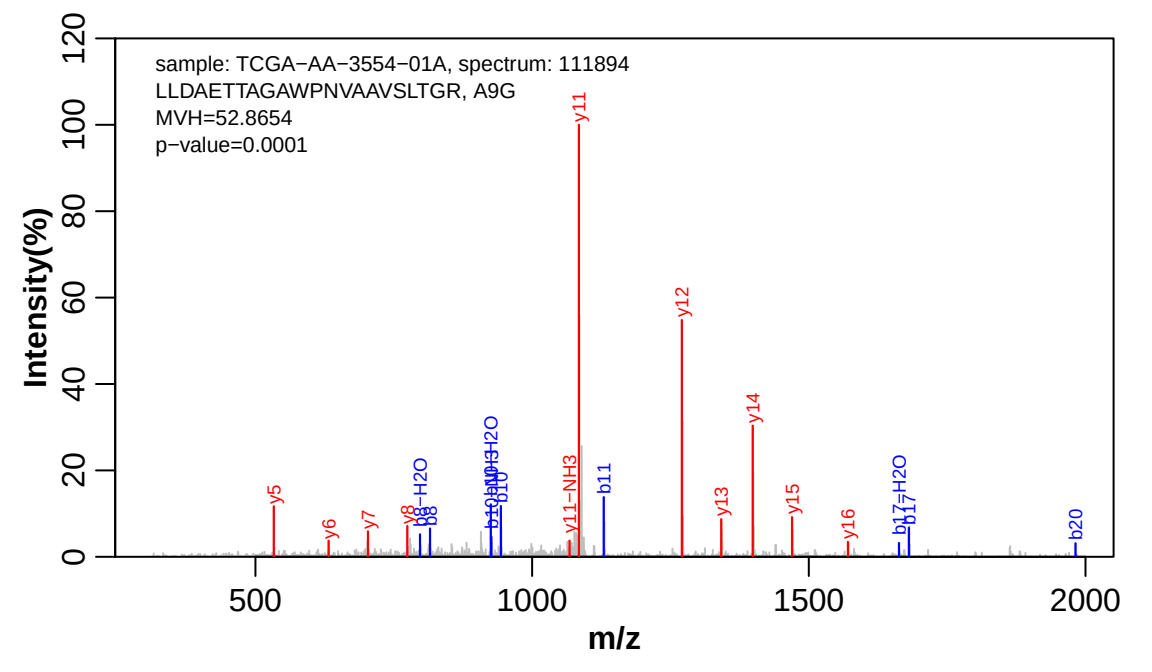

sample: TCGA−AA−3554−01A, spectrum: 128876
LEGSDVQLLEYK, E12K
MVH=42.6204
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2−NH3
y2
b4−H2O
y3−H2O
y3
b5−H2O
b5
y4−NH3
y4−H2O
y4
b6
y5
b7−H2O
b7
y6−NH3
y6
b8
y7
b9
y8−H2O
y8−NH3
y8
y10
b11

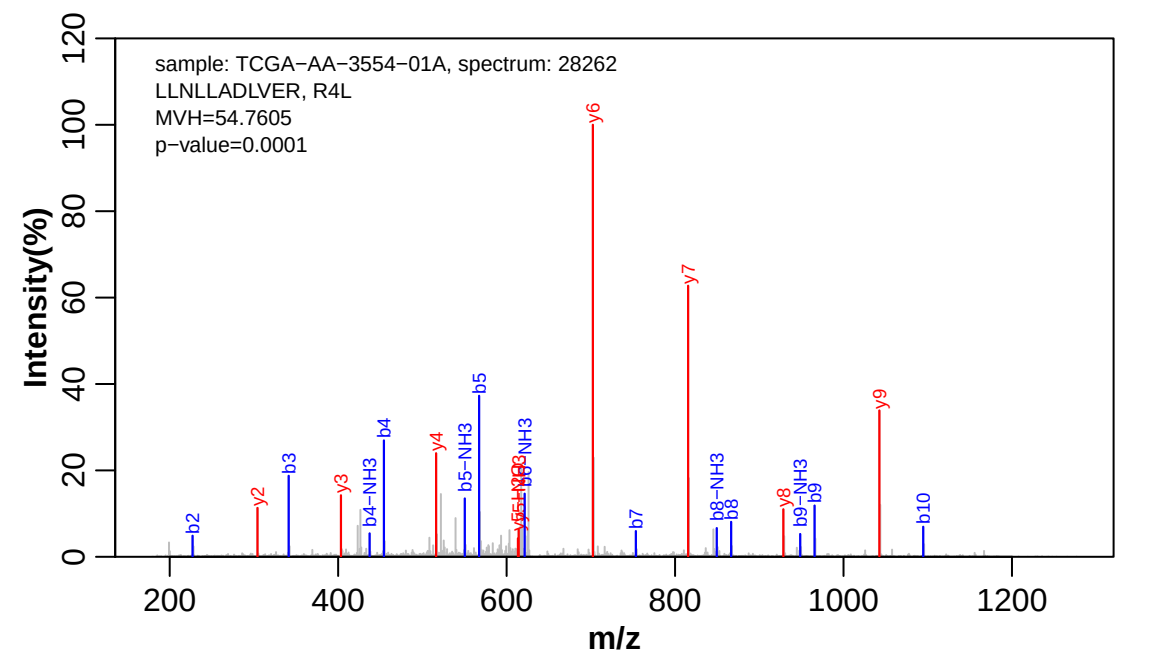

sample: TCGA−AA−3554−01A, spectrum: 36341
LFEEDPAVGALVLTGGDK, T1I
MVH=62.9828
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b7++
y9++−H2O
b8++
y10++
b9++
y5
b10++
y6
b11++
y6−NH3
y3*++−NH3
b12++
b5
y7−H2O
y7
b13++
y15 b14++−H2O
b14++
b15++−H2O
b7−H2O
b7
y9
b8
y10
b9
b10
b11
b12

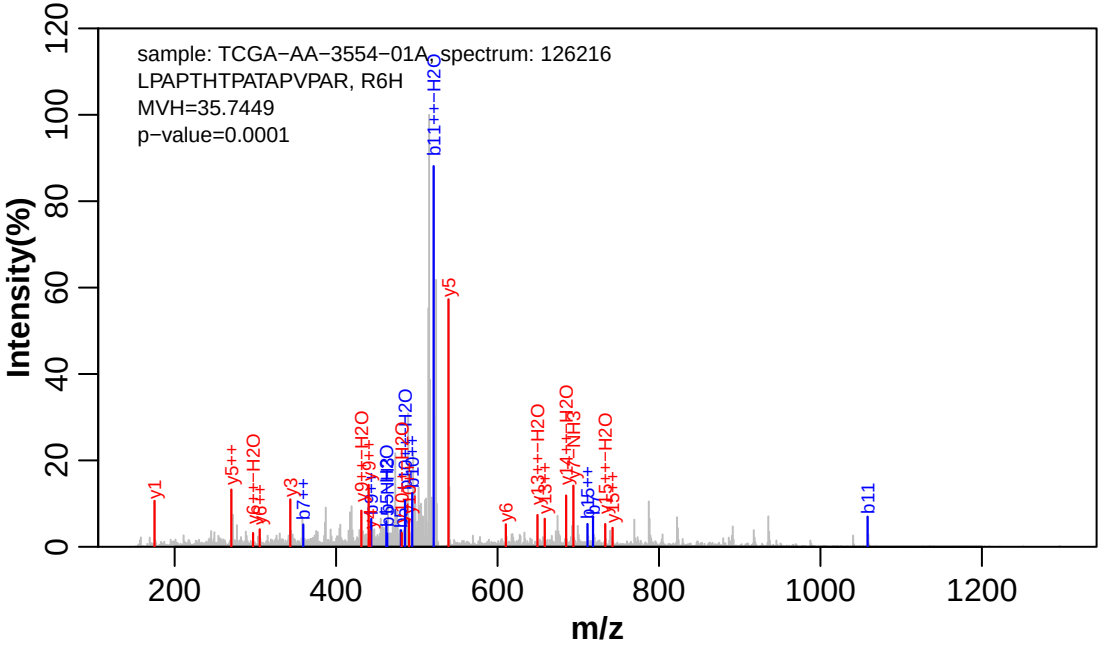

sample: TCGA−AA−3554−01A, spectrum: 46477
LFSLLSTALLR, V8A
MVH=54.8445
p−value=0.0001
Intensity(%)
m/z
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10−H2O
b10

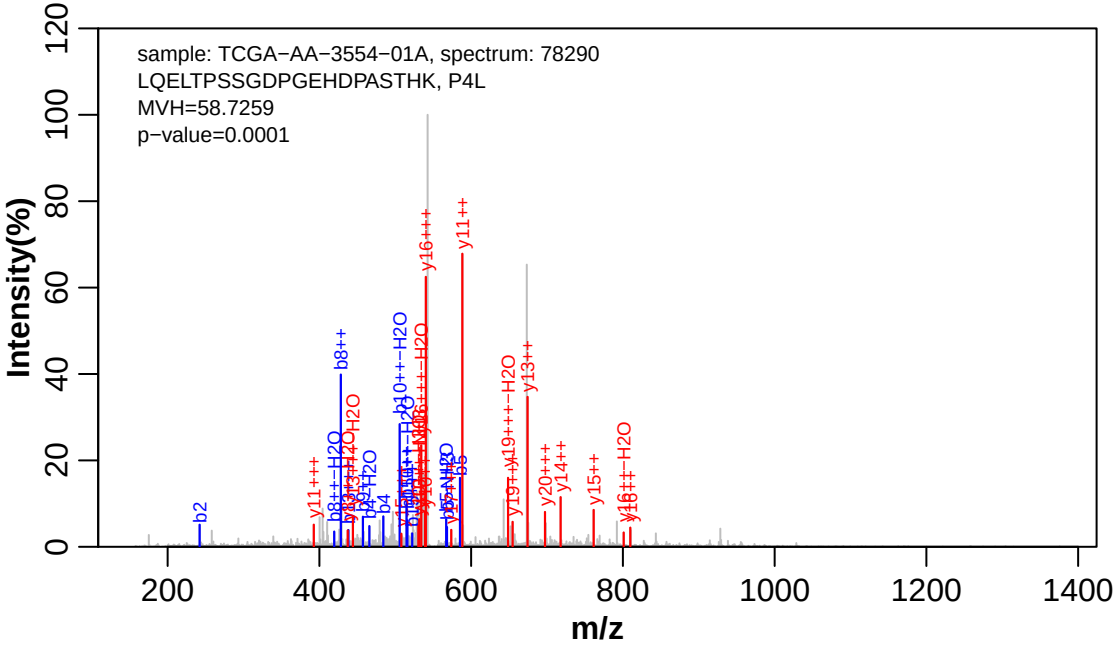

sample: TCGA−AA−3554−01A, spectrum: 115520
LGGLQPSQDR, G7S
MVH=42.3707
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
b4
b5
y5
y6
y4

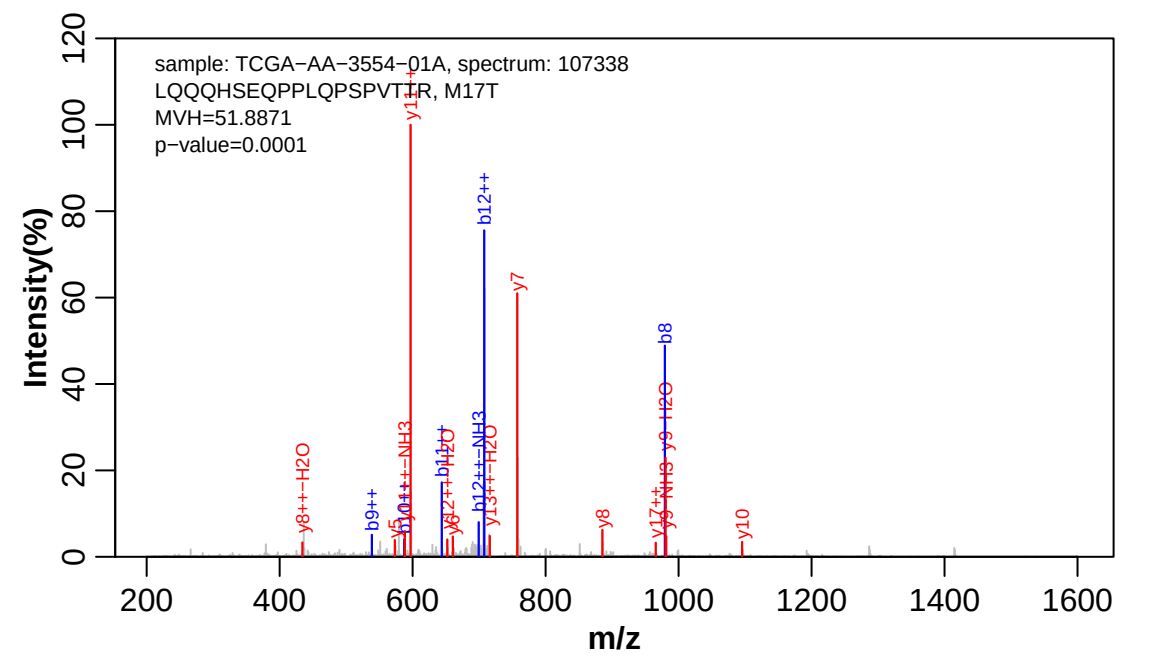

sample: TCGA−AA−3554−01A, spectrum: 42639
LHVLVEPDHFK, Q2H
MVH=77.1697
p−value=0.0001
Intensity(%)
m/z
y6+++I2
y5++
y7++
b4
y6++
y10+++
b5
y5
b4++
y6+++−H2O
b5++
y7+++
y7+++−H2O
y5++−H2O
y8+++−NH3
b3
b6++

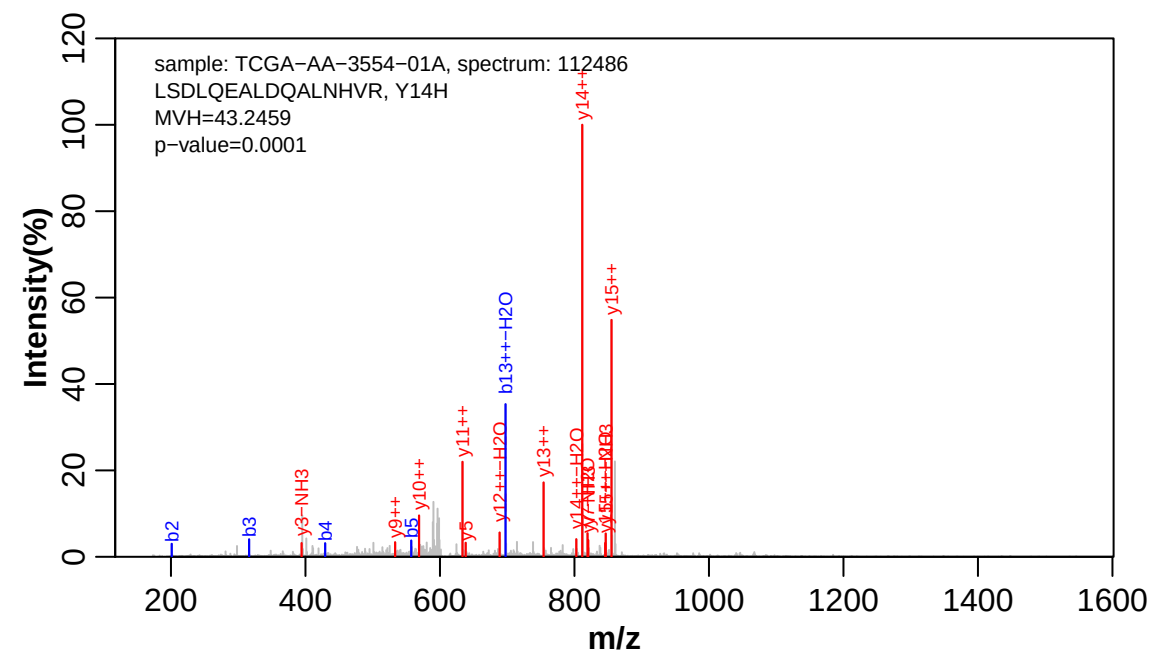

sample: TCGA−AA−3554−01A, spectrum: 111894
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=52.8654
p−value=0.0001
Intensity(%)
m/z
y11
y12
y14
y5
y6
y7
y8
b8−H2O
b8
b10
b10−H2O
y11−NH3
b11
y13
y15
y16
b17−H2O
b17
b20

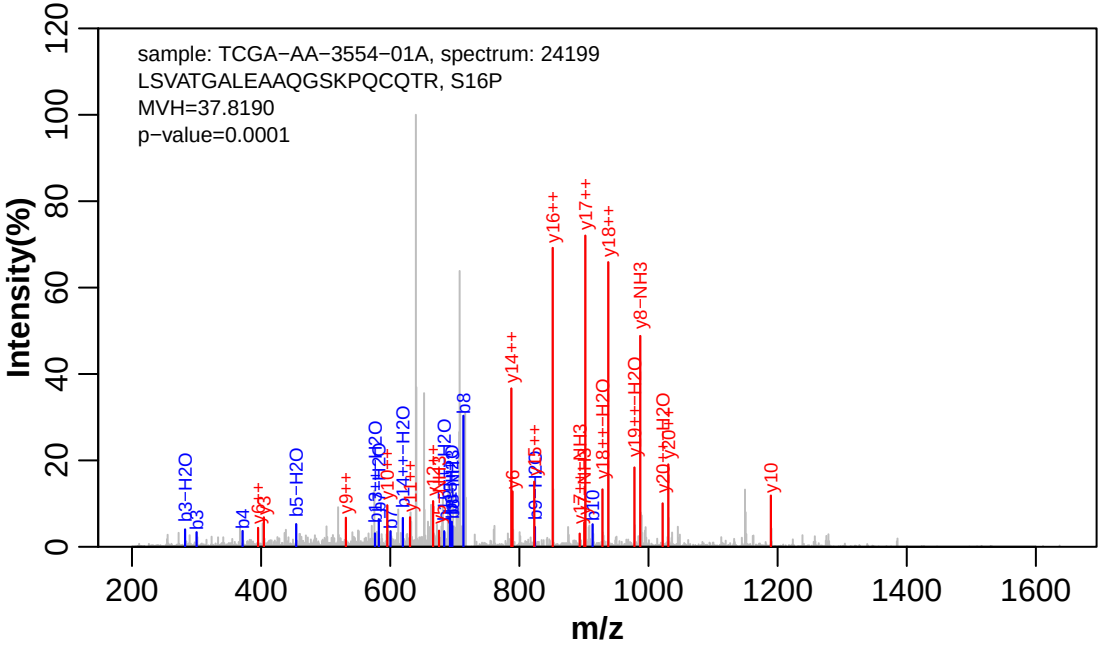

sample: TCGA−AA−3554−01A, spectrum: 28262
LLNLLADLVER, R4L
MVH=54.7605
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

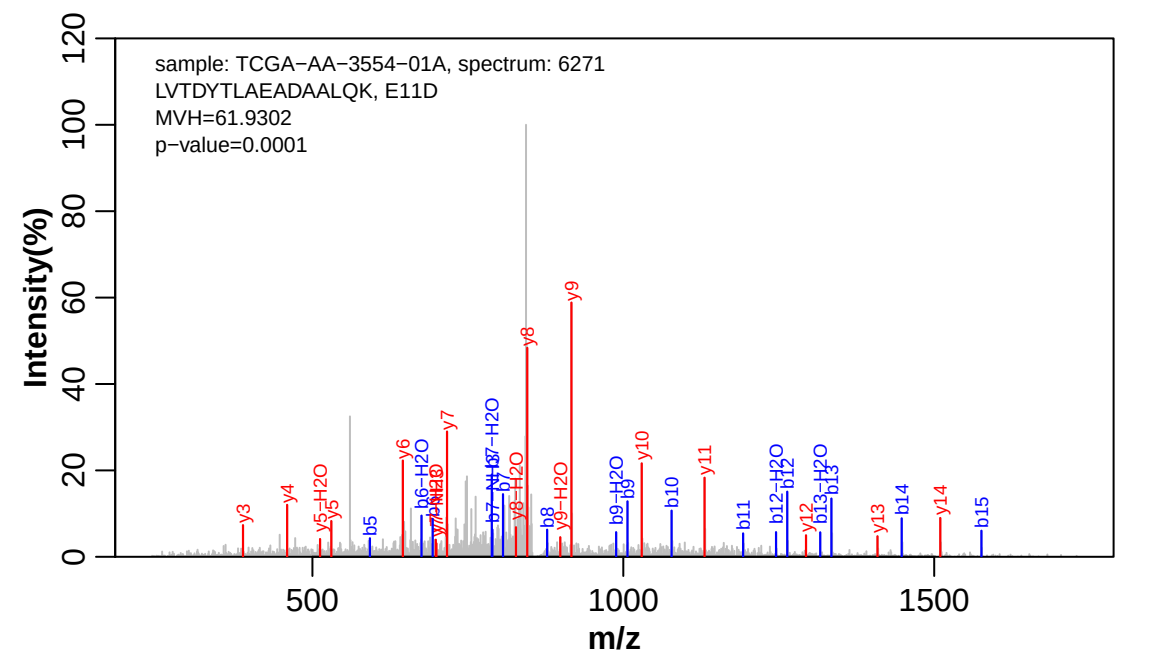

sample: TCGA−AA−3554−01A spectrum: 126216
LPAPTHTPATAPVPAR, R6H
MVH=35.7449
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b11++−H2O
y5
y1
y5++
y6++−H2O
y3
b7++
y6
b11

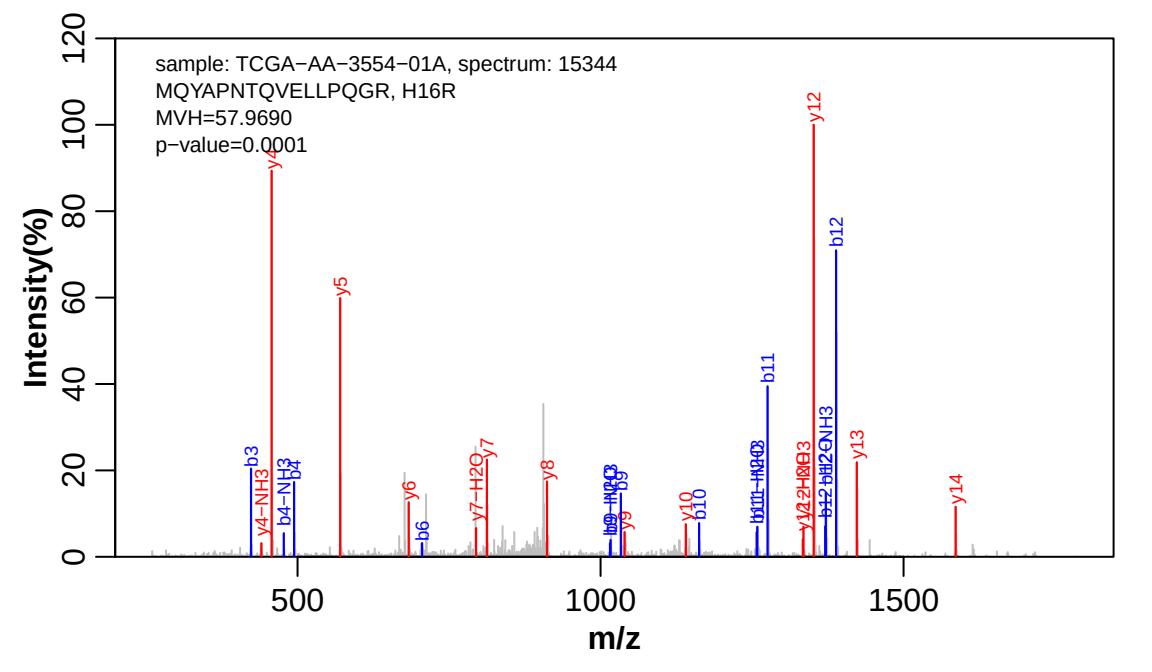

sample: TCGA−AA−3554−01A, spectrum: 78290
LQELTPSSGDPGEHDPASTHK, P4L
MVH=58.7259
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b8++−H2O
b8++
y11++
y16+++
y13++
y20+++
y14++
y15++
y16++−H2O

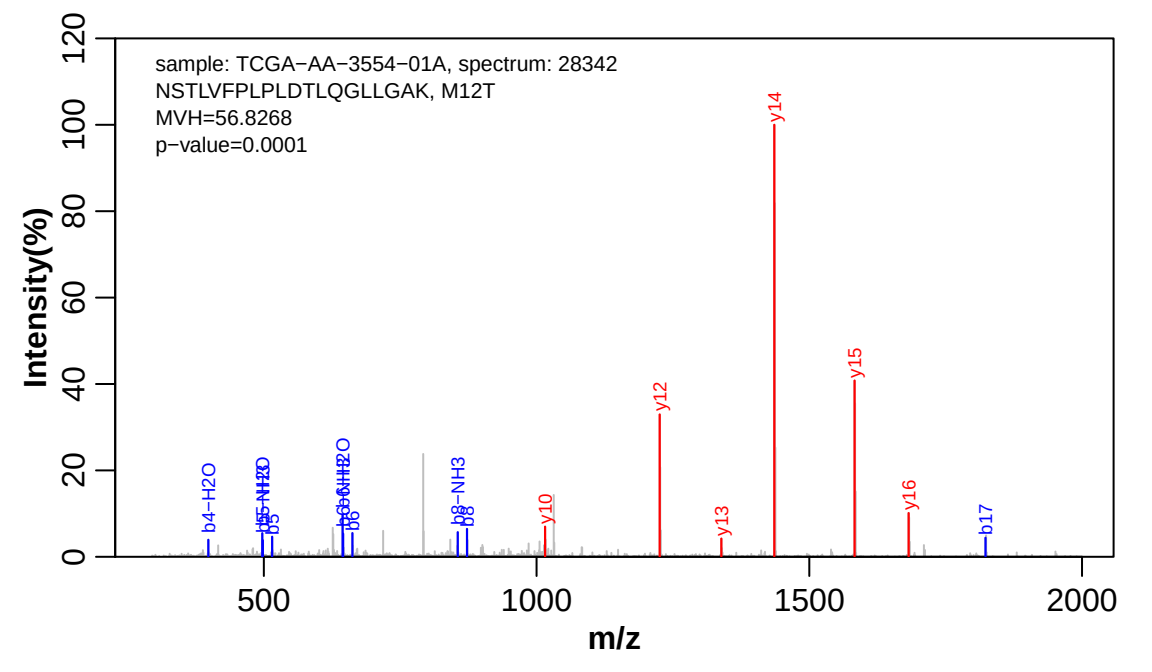

sample: TCGA−AA−3554−01A, spectrum: 107338
LQQQHSEQPPLQPSPVTTR, M17T
MVH=51.8871
p−value=0.0001
Intensity(%)
m/z
y11++
b12++
y7
b8
y8++−H2O
b9++
y5
b10++−NH3
b11++
y6
y6++
b12++−H2O
b12++−NH3
y13++−H2O
y8
y17++
y9−NH3
y9+H2O
y10

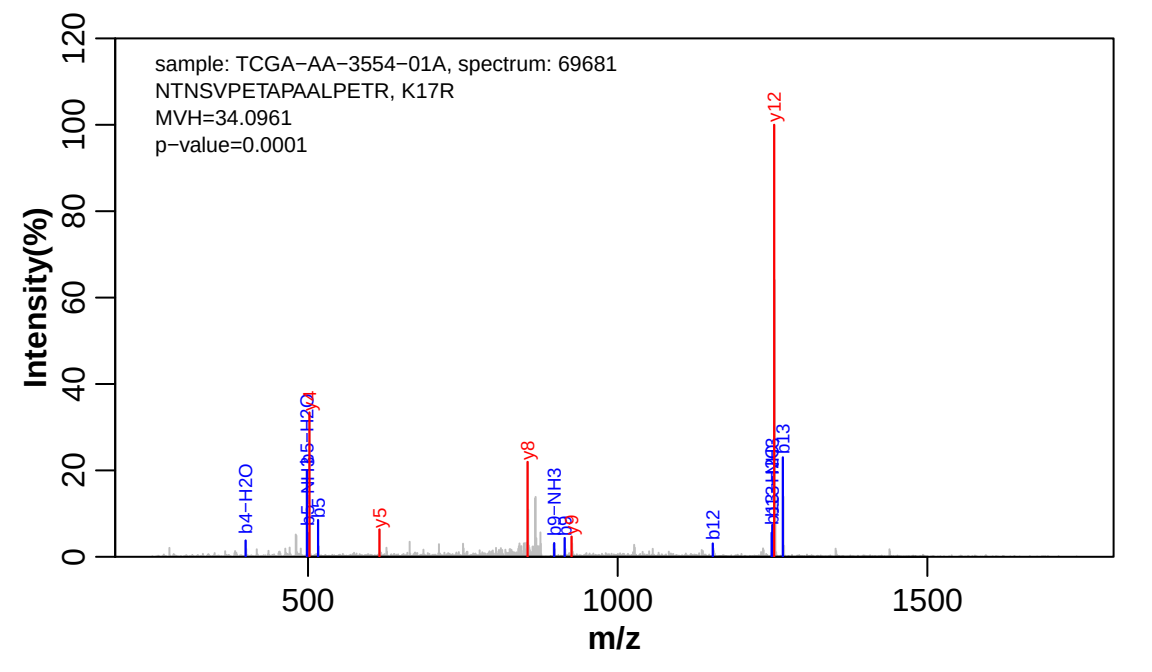

sample: TCGA−AA−3554−01A, spectrum: 112486
LSDLQEALDQALNHVR, Y14H
MVH=43.2459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3
y3−NH3
b4
y9++
b5
y10++
y11++
y5
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++−NH3
y14++
y15++

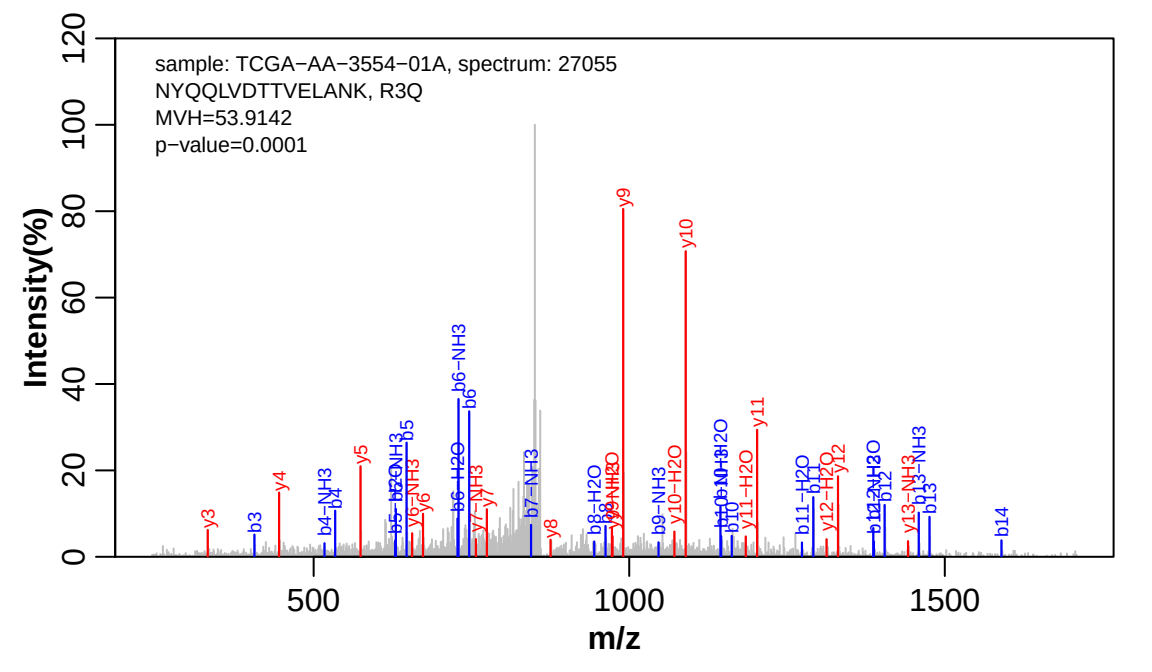

sample: TCGA−AA−3554−01A, spectrum: 24199
LSVATGALEAAQGSKPQCQTR, S16P
MVH=37.8190
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4
y3++
b5−H2O
y9++
b8
y14++
y6
y16++
y17++
y18++
y8−NH3
y10

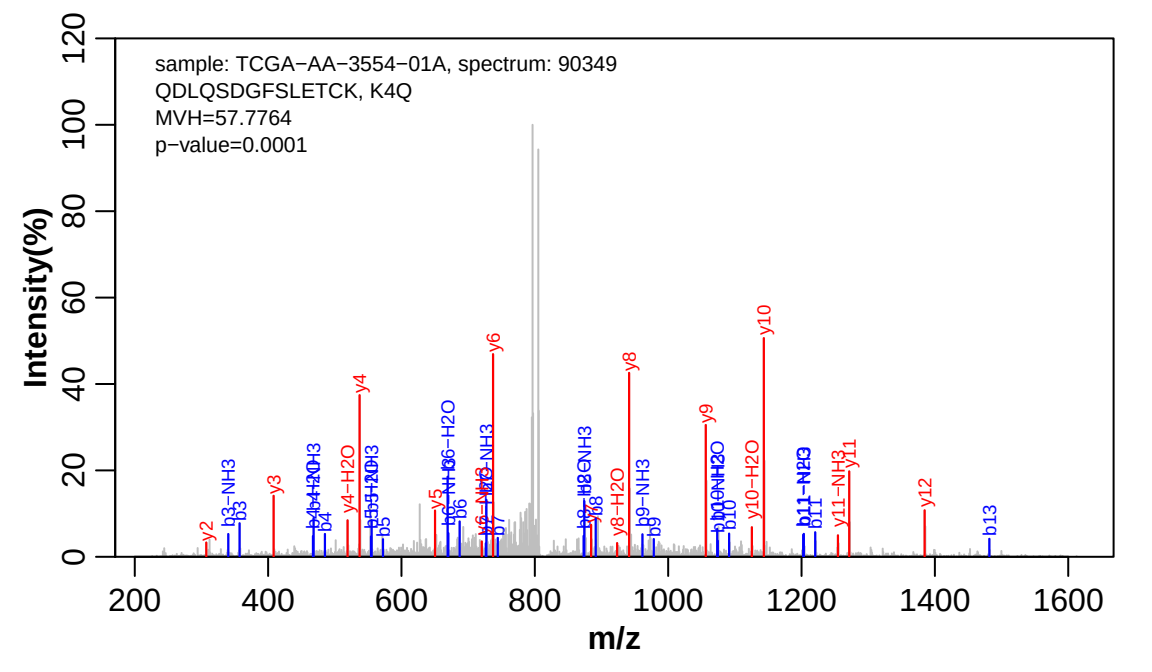

sample: TCGA−AA−3554−01A, spectrum: 6271
LVTDYTLAEADAALQK, E11D
MVH=61.9302
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5−H2O
y5
b5
y6
b6−H2O
y7
b7−NH3
b7−H2O
y8
y8−H2O
y9
y9−H2O
b8
b9−H2O
b9
y10
b10
y11
b11
b12−H2O
b12
y12
b13−H2O
b13
y13
b14
y14
b15

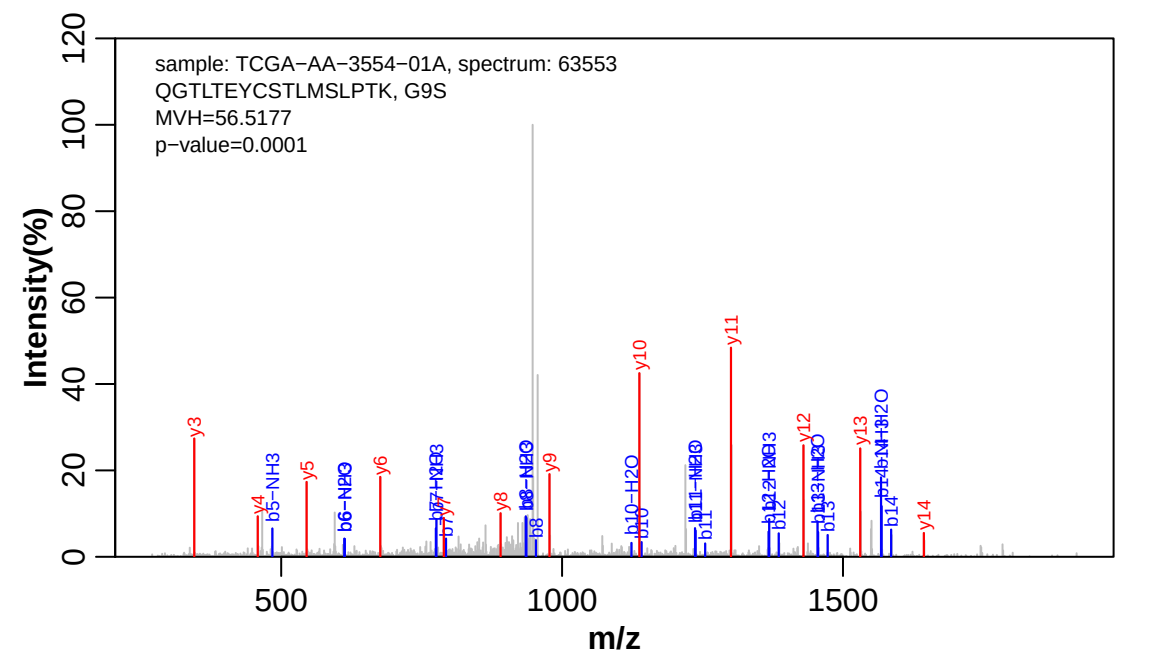

sample: TCGA−AA−3554−01A, spectrum: 15344
MQYAPNTQVELLPQGR, H16R
MVH=57.9690
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b11
y13
y14
y8
y6
y7
b3
b4
b6
b10
y10
y9

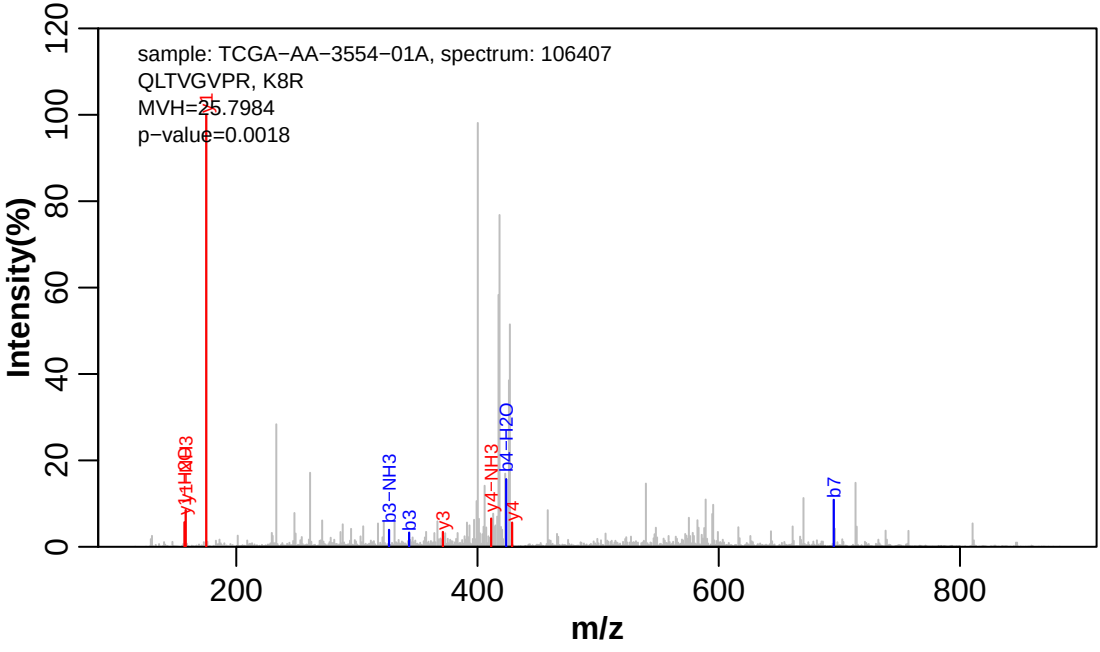

sample: TCGA−AA−3554−01A, spectrum: 28342
NSTLVFPLPLDTLQGLLGAK, M12T
MVH=56.8268
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
b5−NH3
b5
b6−H2O
b6
b8−NH3
b8
y10
y12
y13
y14
y15
y16
b17

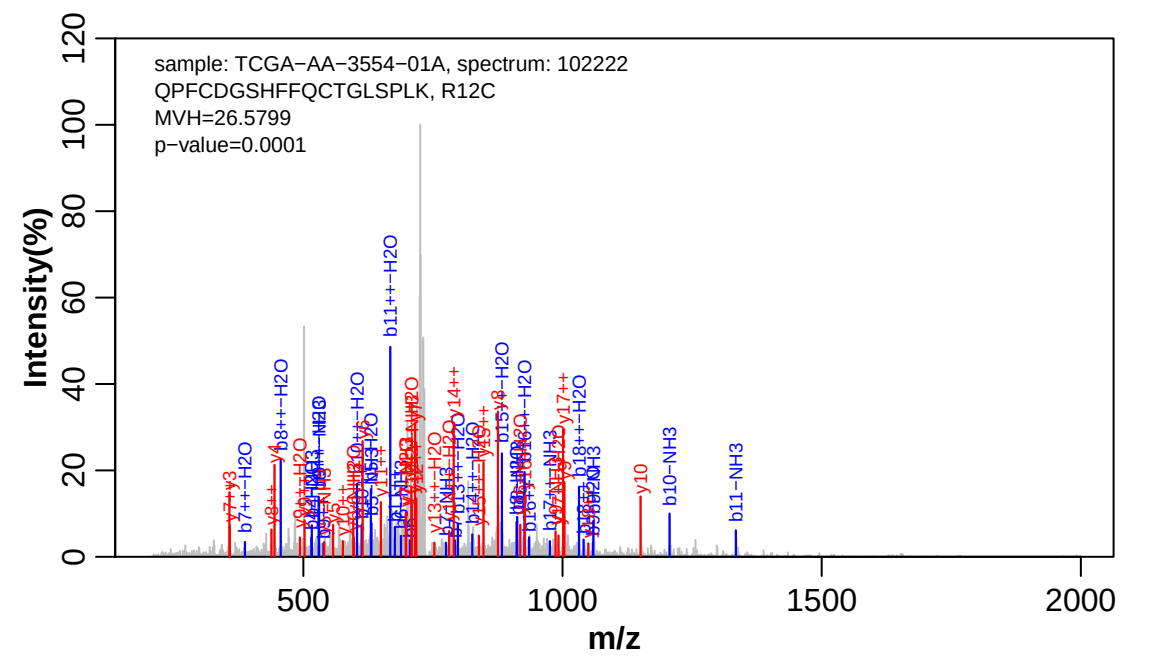

sample: TCGA−AA−3554−01A, spectrum: 69681
NTNSVPETAPAALPETR, K17R
MVH=34.0961
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
y12
y8
y4
b13
b4−H2O
b5
y5
b9−NH3
y9
b12

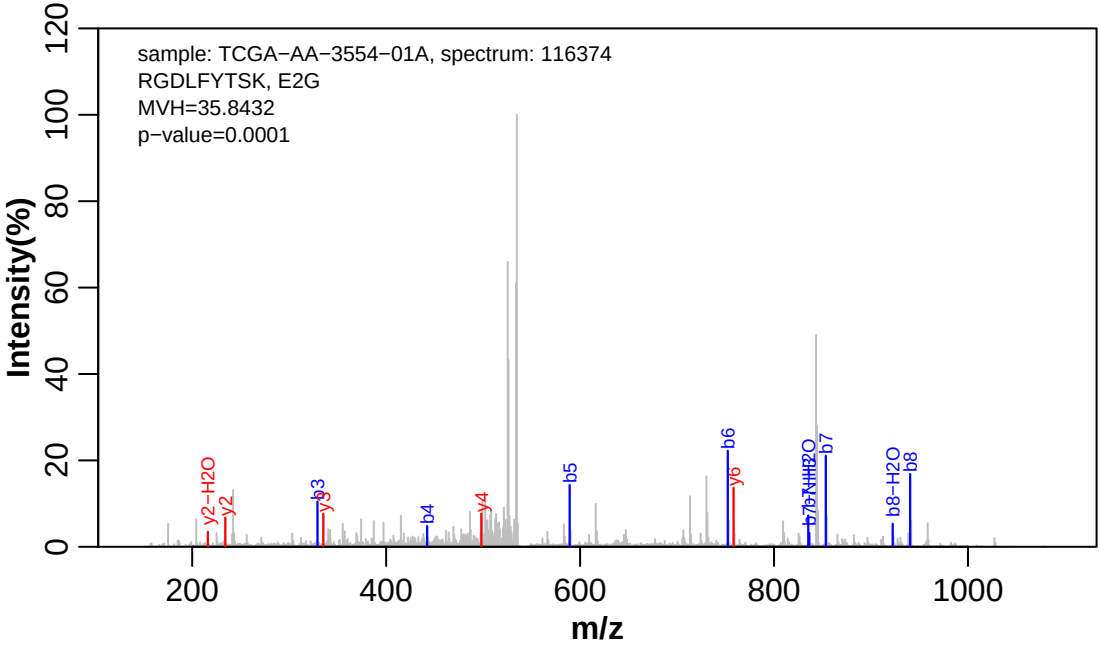

sample: TCGA−AA−3554−01A, spectrum: 27055
NYQQLVDTTVELANK, R3Q
MVH=53.9142
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b3
y4
b4−NH3
b4
y5
b5−H2O
b5−NH3
b5
y6−NH3
y6
b6−H2O
b6−NH3
b6
y7−NH3
y7
b7−NH3
y8
b8−H2O
y9
y9−NH3
y9−H2O
b9−NH3
y10−H2O
y10
b10−H2O
b10−NH3
b10
y11−H2O
y11
b11−H2O
b11
y12−H2O
y12
b12−H2O
b12
y13−NH3
b13−NH3
b13
b14

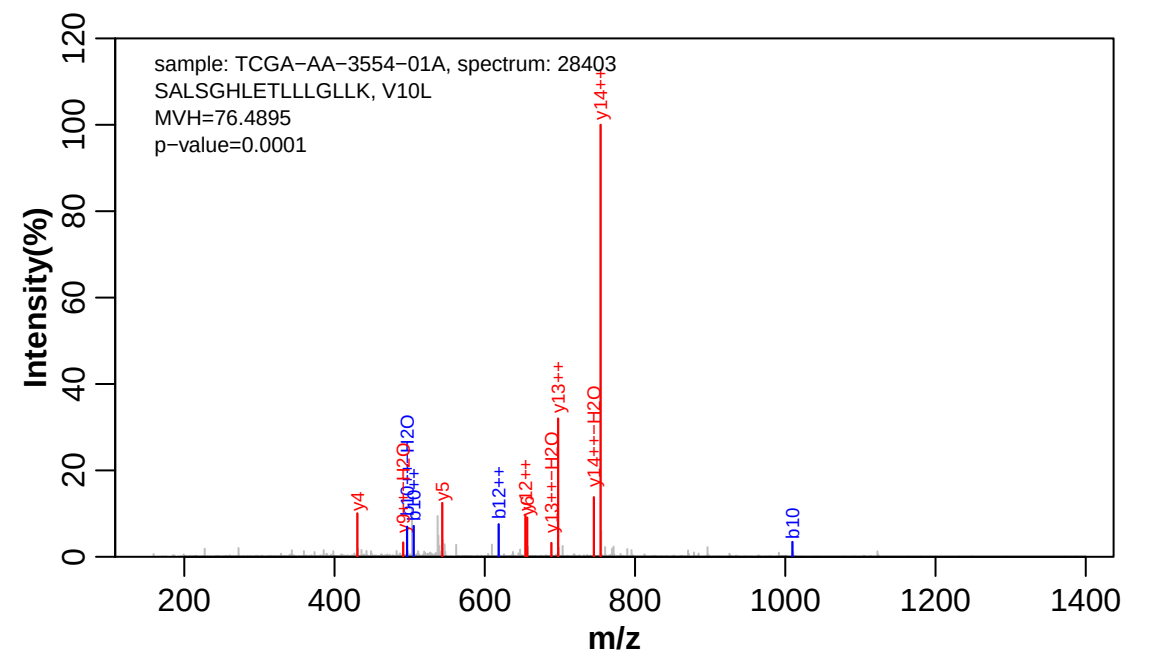

sample: TCGA−AA−3554−01A, spectrum: 90349
QDLQSDGFSLETCK, K4Q
MVH=57.7764
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3−NH3
b3
y3
b4
y4−H2O
y4
b5
y5
b6−H2O
b6
y6
b7
y8−H2O
y8
b9−NH3
b9
y9
b10
y10−H2O
y10
y11−NH3
y11
y12
b13

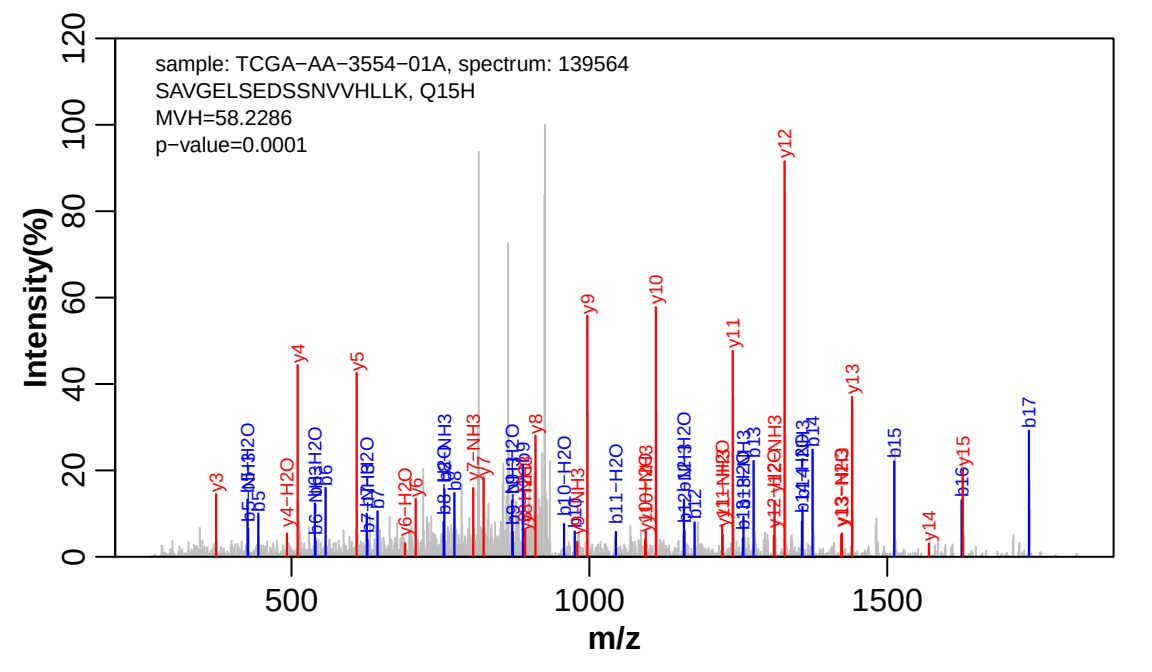

sample: TCGA−AA−3554−01A, spectrum: 63553
QGTLTEYCSTLMSLPTK, G9S
MVH=56.5177
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b5−NH3
y5
y6
y8
y9
b10−H2O
y10
y11
y12
y13
y14

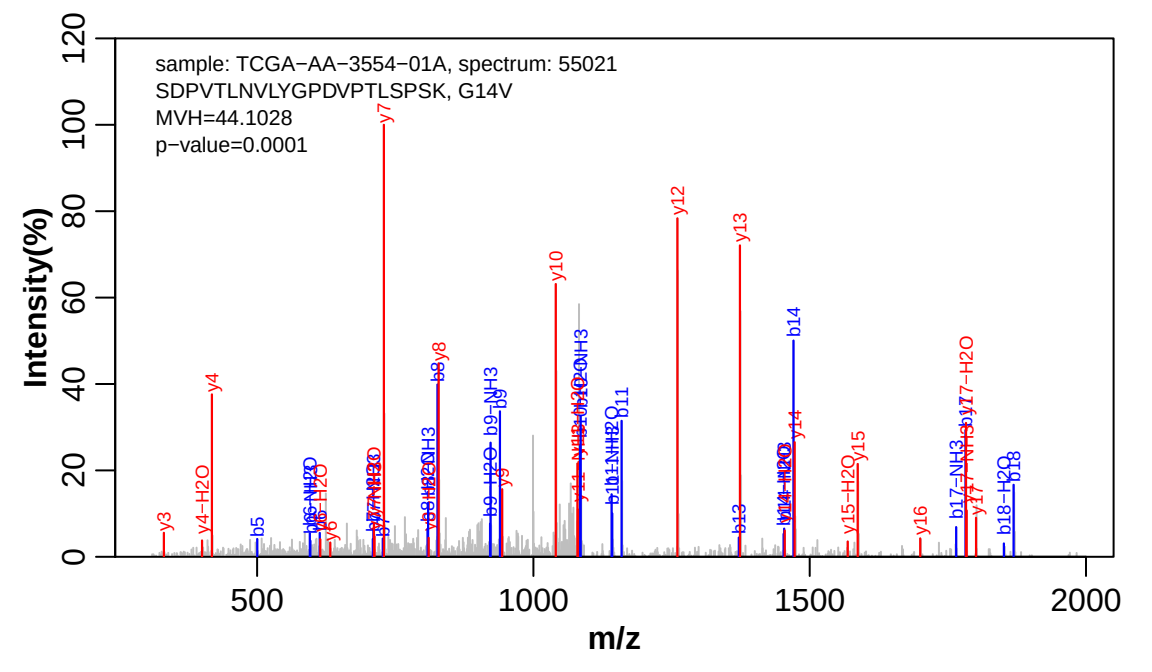

sample: TCGA−AA−3554−01A, spectrum: 106407
QLTVGVPR, K8R
MVH=25.7984
p−value=0.0018
Intensity(%)
m/z
y1
y1−H2O
y1−NH3
b3−NH3
b3
y3
y4−NH3
b4−H2O
y4
b7

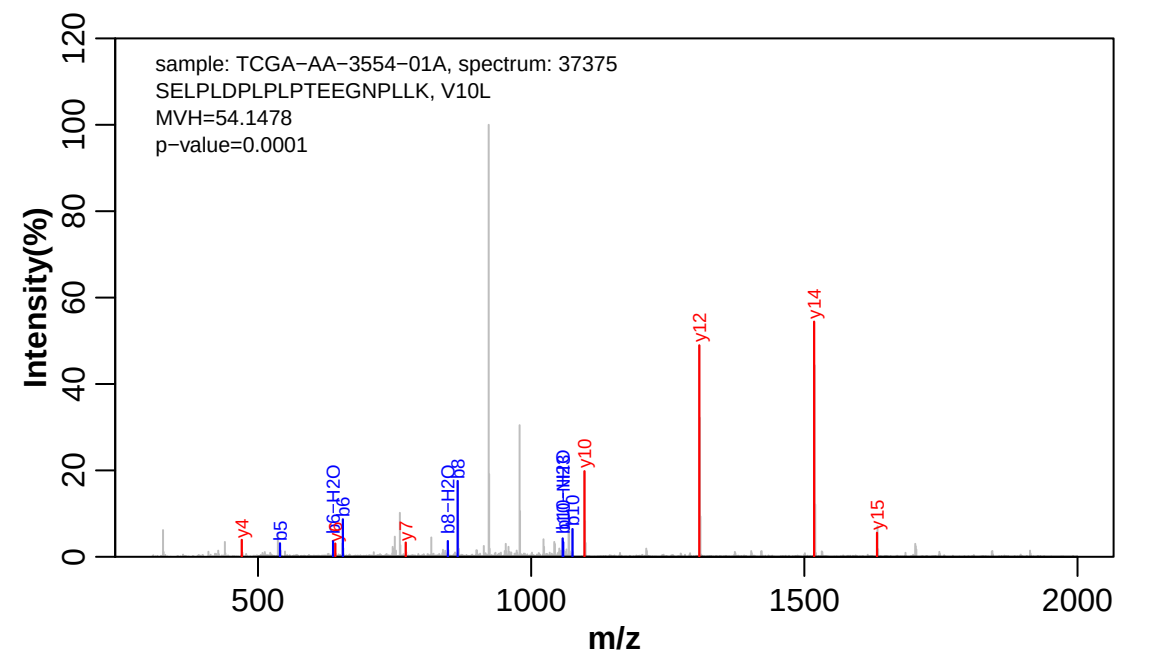

sample: TCGA−AA−3554−01A, spectrum: 102222
QPFCDGSHFFQCTGLSPLK, R12C
MVH=26.5799
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b11++−H2O
b8++−H2O
y7++y3
b7++−H2O
y8++
y10
b10−NH3
b11−NH3

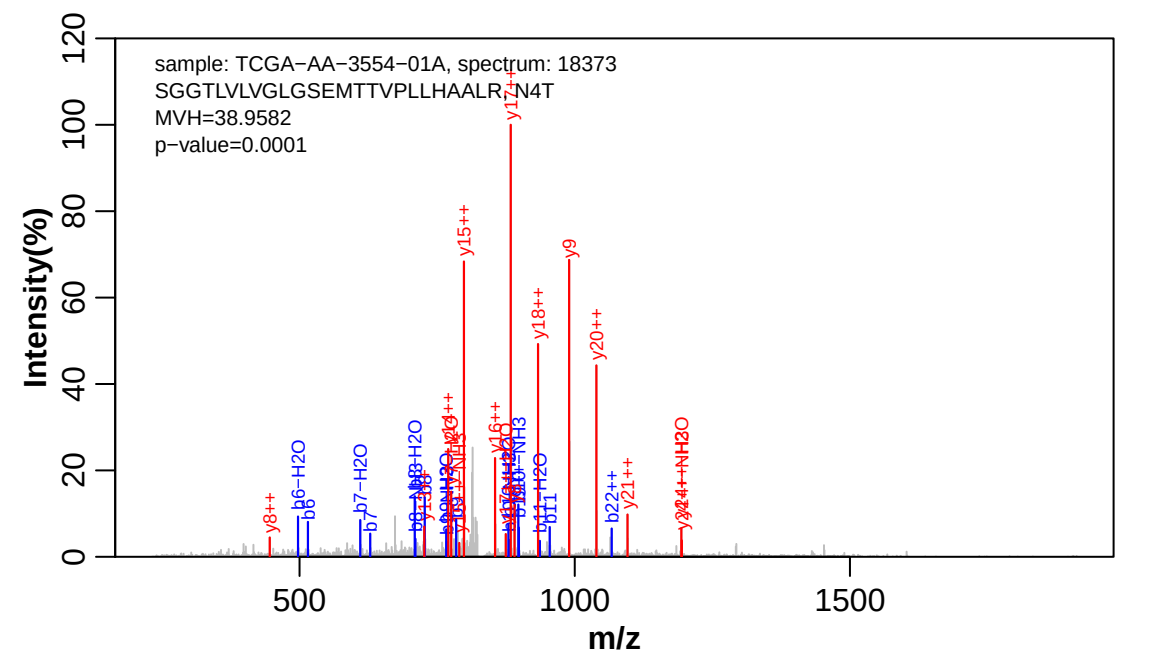

sample: TCGA−AA−3554−01A, spectrum: 116374
RGDLFYTSK, E2G
MVH=35.8432
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2−H2O
y2
b3
y3
b4
y4
b5
b6
y6
b7−NH3
b7−H2O
b7
b8−H2O
b8

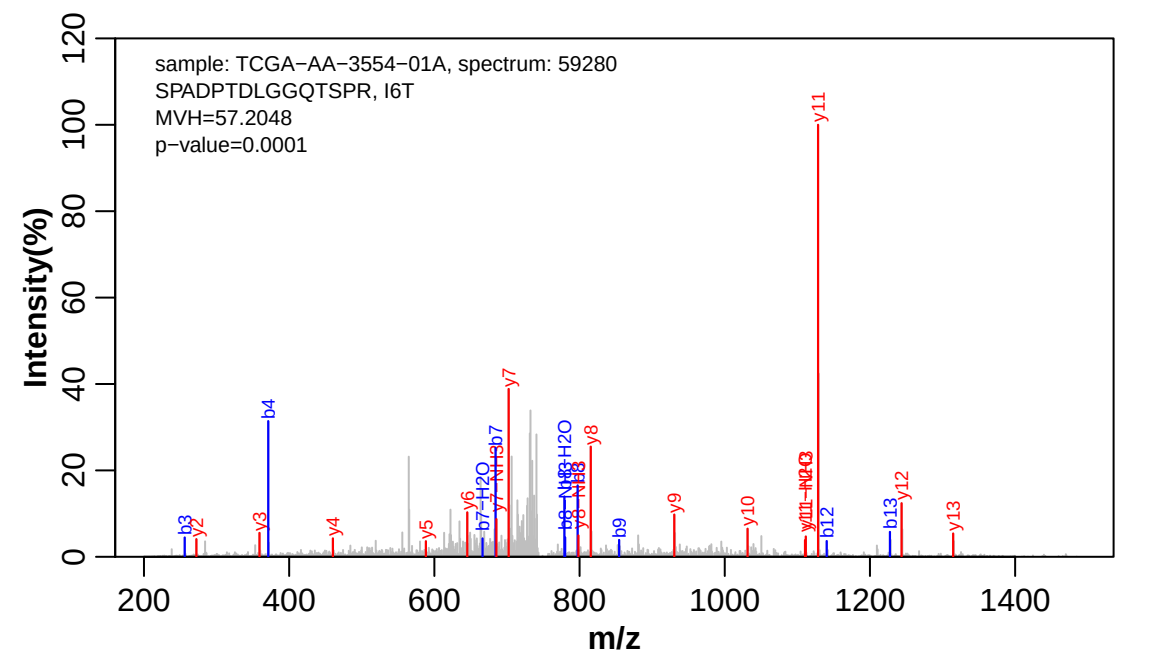

sample: TCGA−AA−3554−01A, spectrum: 28403
SALSGHLETLLLGLLK, V10L
MVH=76.4895
p−value=0.0001
Intensity(%)
m/z
y4
y5
b12++
y13++−H2O
y13++
y14++−H2O
y14++
b10

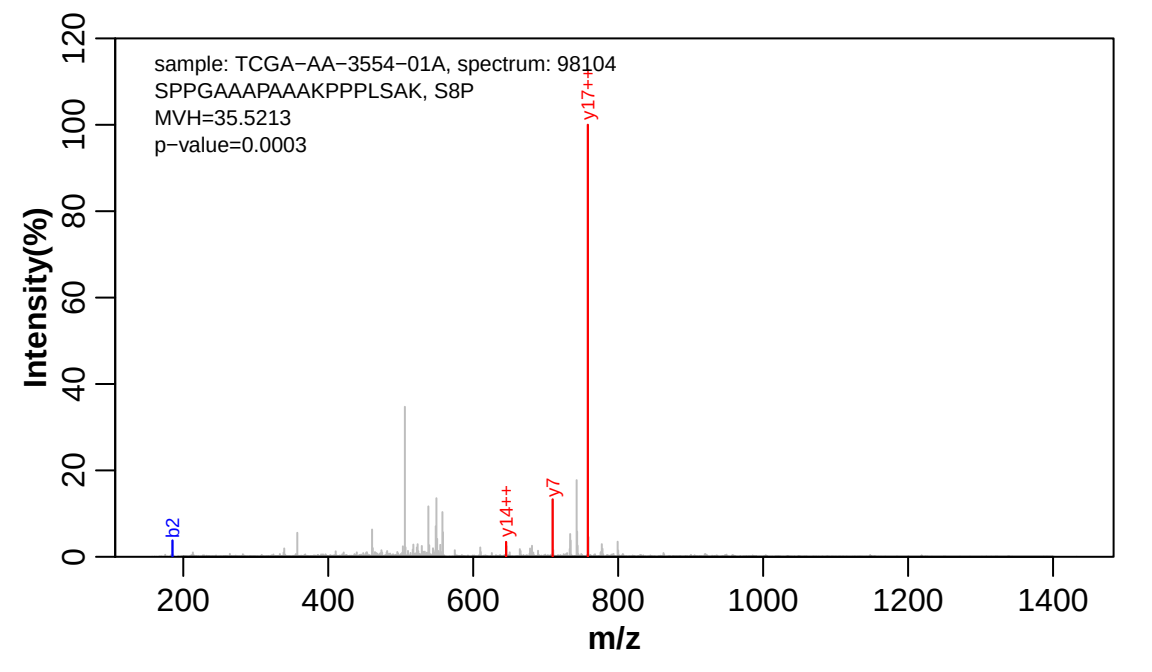

sample: TCGA−AA−3554−01A, spectrum: 139564
SAVGELSEDSSNVVHLLK, Q15H
MVH=58.2286
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y10
y4
y5
y11
y13
b17
b15
y3
y14
b16
y15
y4−H2O
y6−H2O
y7−NH3
b10−H2O
b11−H2O
y13−NH3

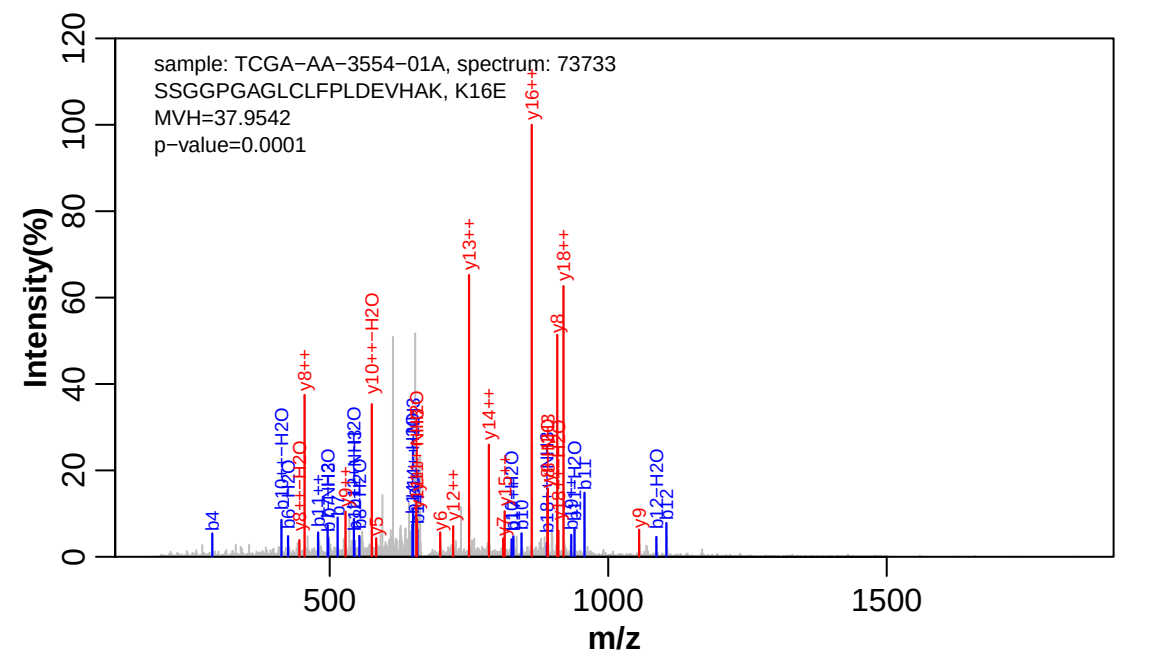

sample: TCGA−AA−3554−01A, spectrum: 55021
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=44.1028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4−H2O
y4
b5
y7
b8
y8
b9−NH3
y9
y10
y12
y13
b11
b14
y14
y15−H2O
y15
y16
b17−NH3
y17−H2O
b18−H2O
b18

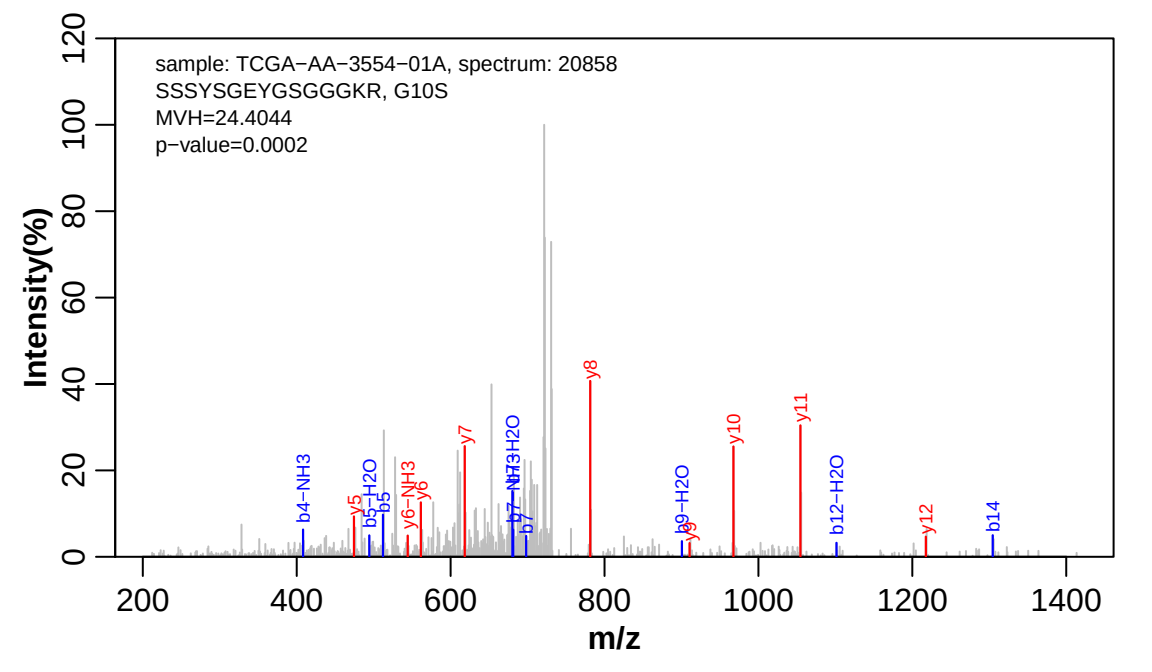

sample: TCGA−AA−3554−01A, spectrum: 37375
SELPLDPLPLPTEEGNPLLK, V10L
MVH=54.1478
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5
b6−H2O
b6
y7
b8−H2O
b8
y10
y12
y14
y15

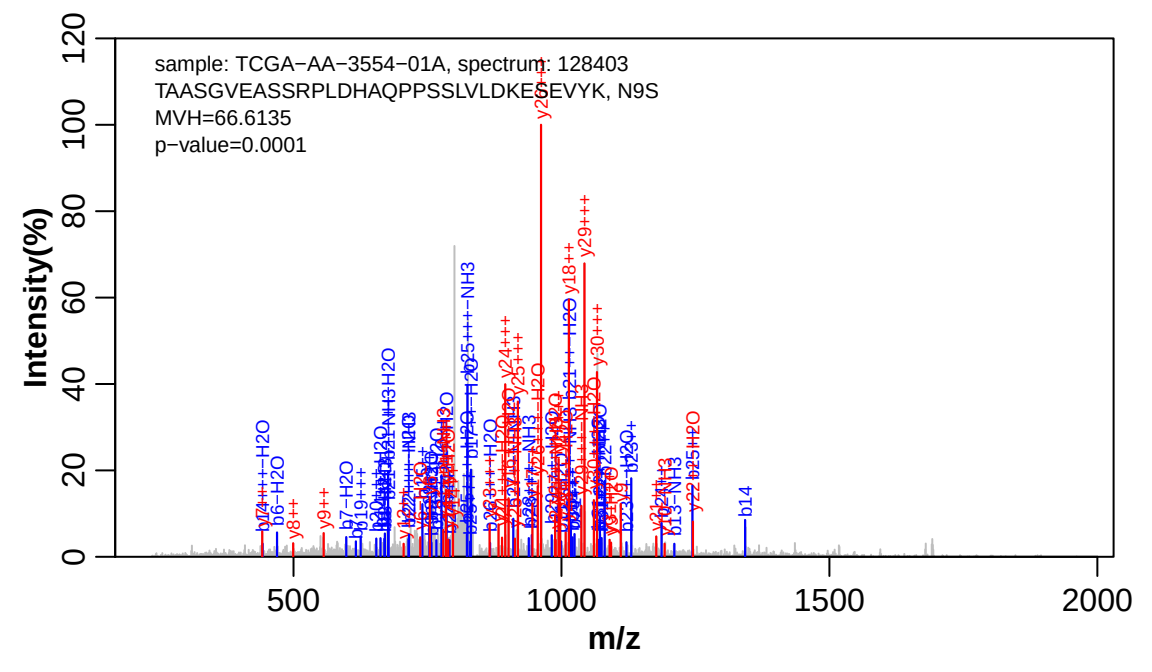

sample: TCGA−AA−3554−01A, spectrum: 18373
SGGTLVLVGLGSEMTTVPLLHAALRLN4T
MVH=38.9582
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y16++
y21++
b22++
b6−H2O
b7−H2O
b11−H2O
y8++

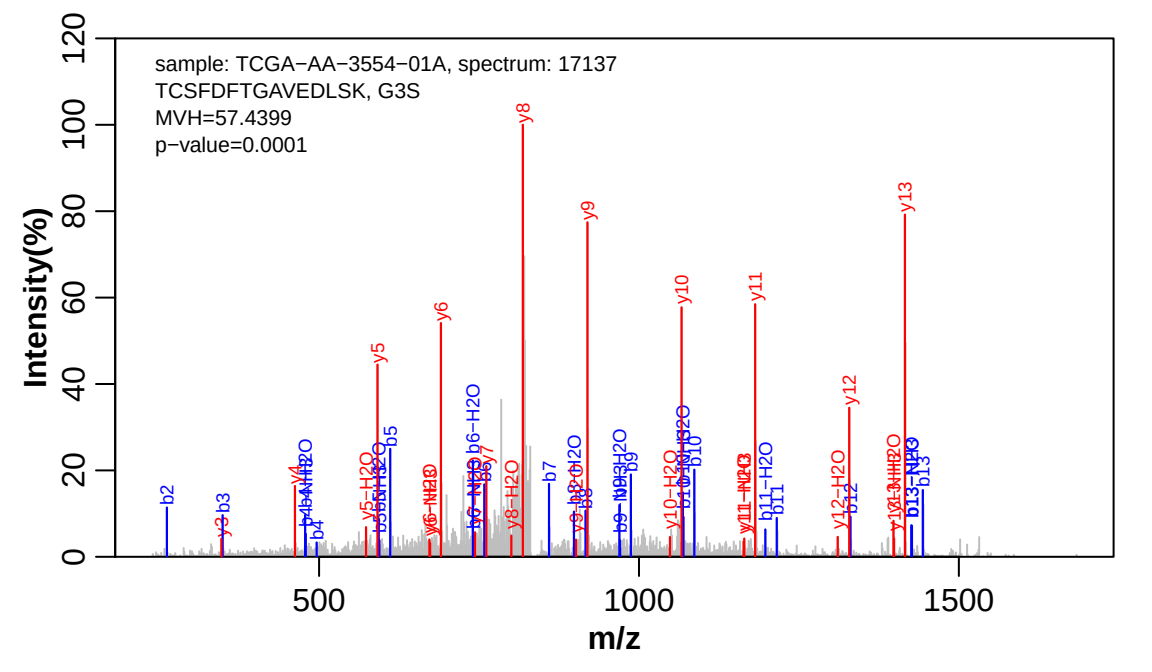

sample: TCGA−AA−3554−01A, spectrum: 59280
SPADPTDLGGQTSPR, I6T
MVH=57.2048
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
b7−H2O
y7−NH3
b7
y7
b8−NH3
b8−H2O
y8−NH3
y8
y8
b9
y9
y10
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

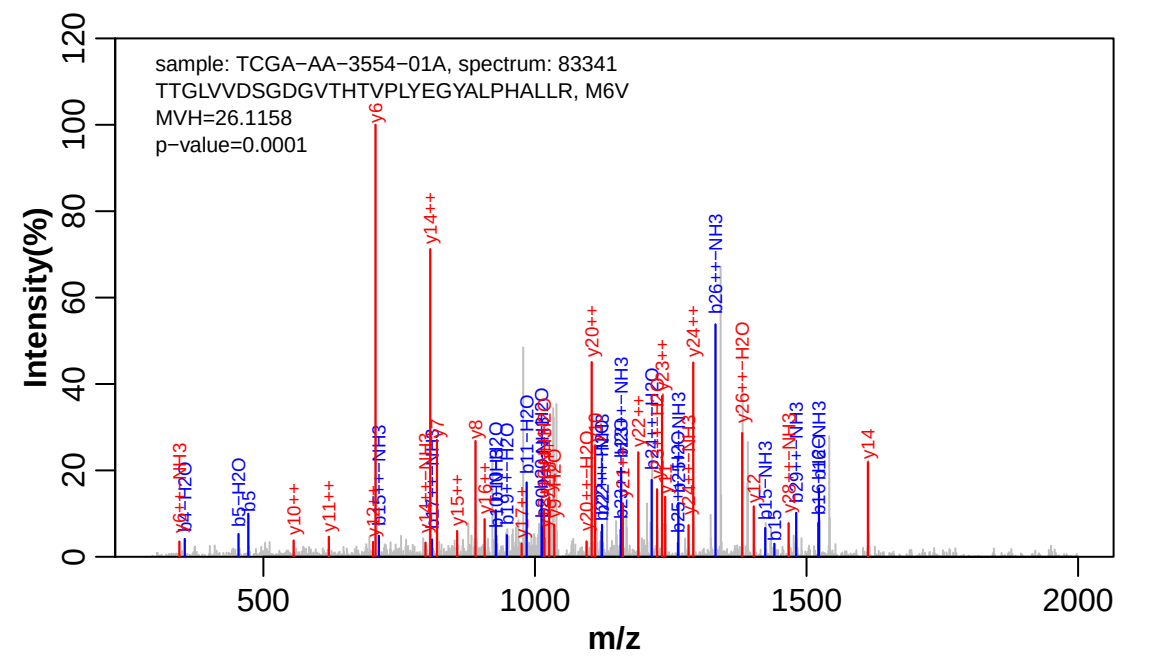

sample: TCGA−AA−3554−01A, spectrum: 98104
SPPGAAAPAAAKPPPLSAK, S8P
MVH=35.5213
p−value=0.0003
y17++
y14++
y7
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

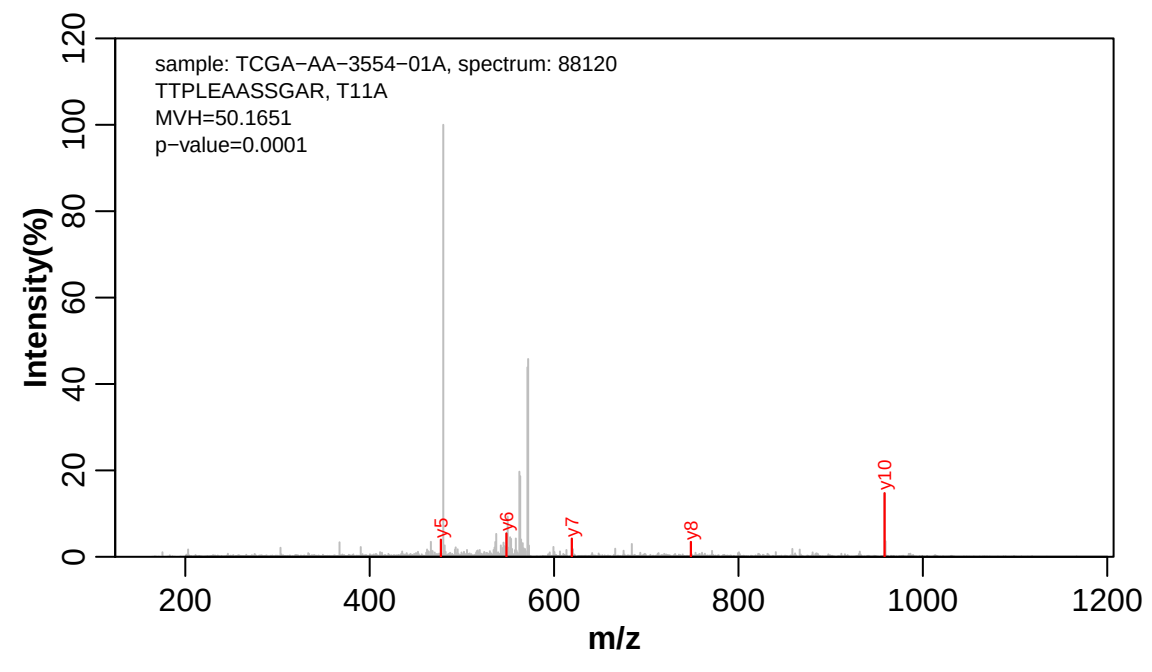

sample: TCGA−AA−3554−01A, spectrum: 73733
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=37.9542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y13++
y18++
y8
y8++
y10++−H2O
y14++
y12++
y6
y5
y9
b4
b12−H2O
b12

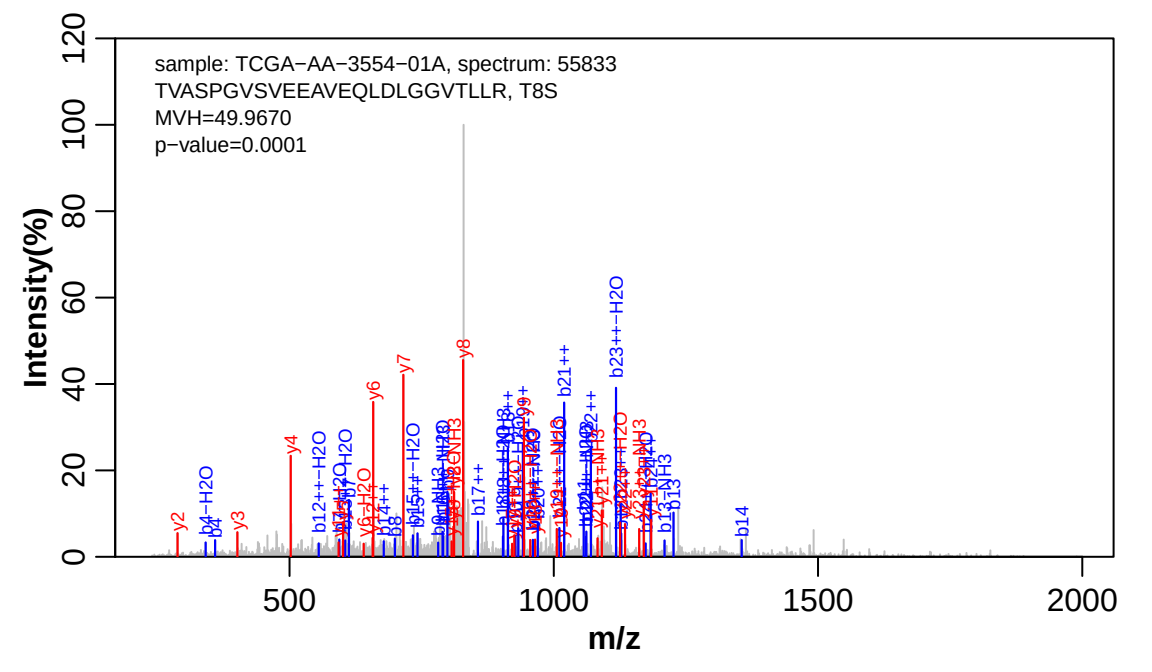

sample: TCGA−AA−3554−01A, spectrum: 20858
SSSYSGEYGSGGGKR, G10S
MVH=24.4044
p−value=0.0002
Intensity(%)
m/z
b4−NH3
y5
b5−H2O
b5
y6−NH3
y6
y7
b7−NH3
b7−H2O
b7
y8
b9−H2O
y9
y10
y11
b12−H2O
y12
b14

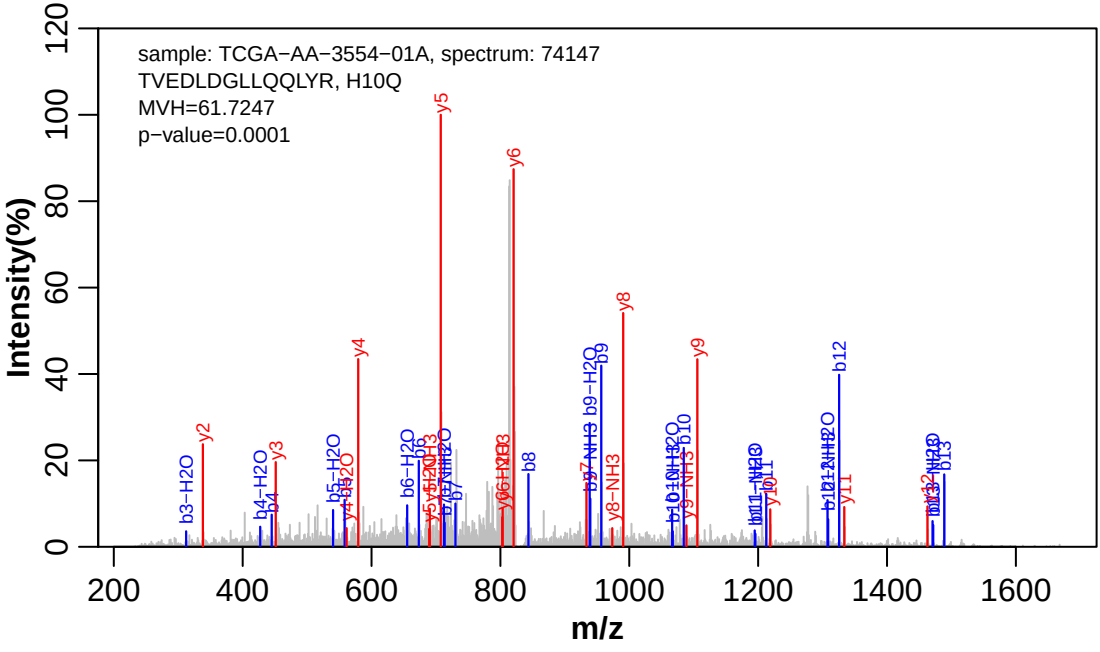

sample: TCGA−AA−3554−01A, spectrum: 128403
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=66.6135
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y28++
y29+++
y18++
y30+++
b14
y8++
y9++
b6−H2O
y22
b25+H2O
b13−NH3

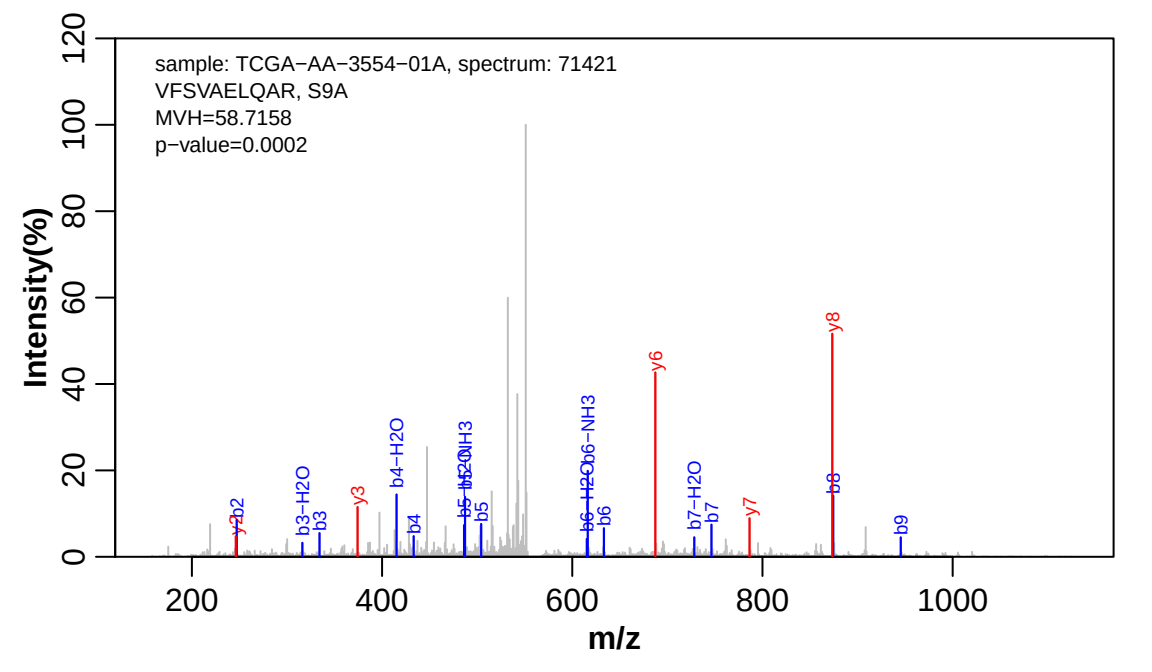

sample: TCGA−AA−3554−01A, spectrum: 17137
TCSFDFTGAVEDLSK, G3S
MVH=57.4399
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
y4
b4
y5
y5−H2O
b5
y6
y6−NH3
b6−NH3
b6−H2O
y7
y8
y8−H2O
b7
y9
y9−H2O
b8
b9
b9−NH3
b9−H2O
y10
y10−H2O
b10
y11
y11−NH3
b11−H2O
b11
y12
y12−H2O
b12
y13
b13

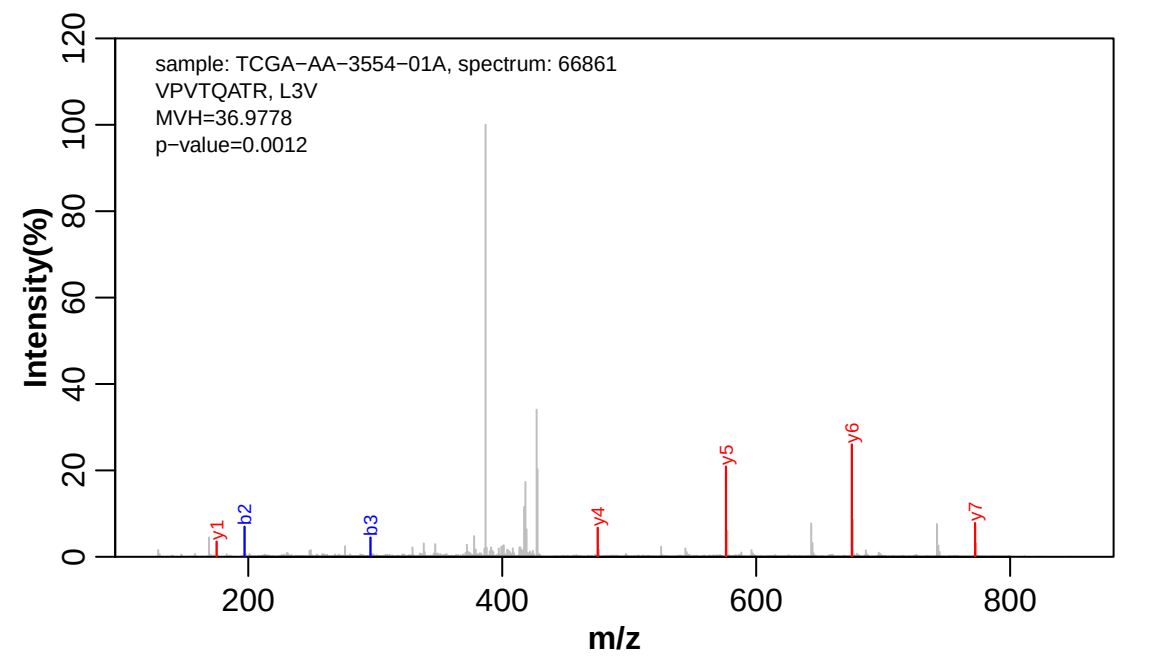

sample: TCGA−AA−3554−01A, spectrum: 83341
TTGLVVDSGDGVTHTVPLYEGYALPHALLR, M6V
MVH=26.1158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
y14++
y7
y8
y15++
y16++
y17++
y10++
y11++
y12++−NH3
y20++
y22++
y23++
y24++
b26++−NH3
y26++−H2O
y12
y14
b5
b5−H2O
b11−H2O
b15−NH3
b23++
b29++
y6+−H2O
y6+−NH3

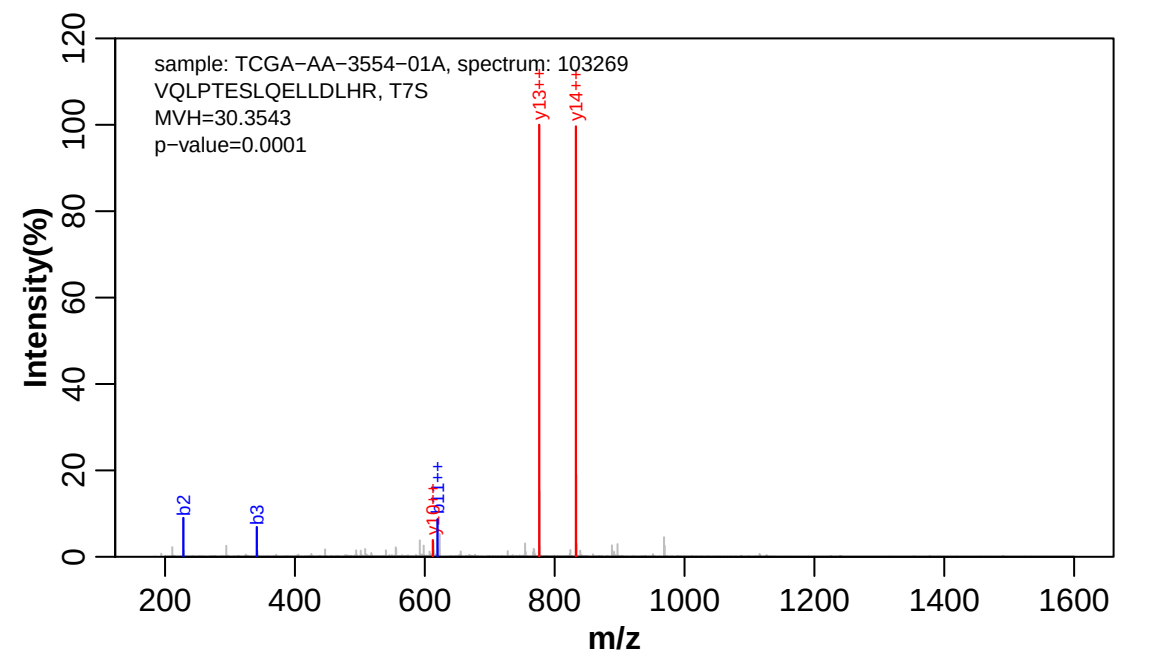

sample: TCGA−AA−3554−01A, spectrum: 88120
TTPLEAASSGAR, T11A
MVH=50.1651
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y5
y6
y7
y8
y10

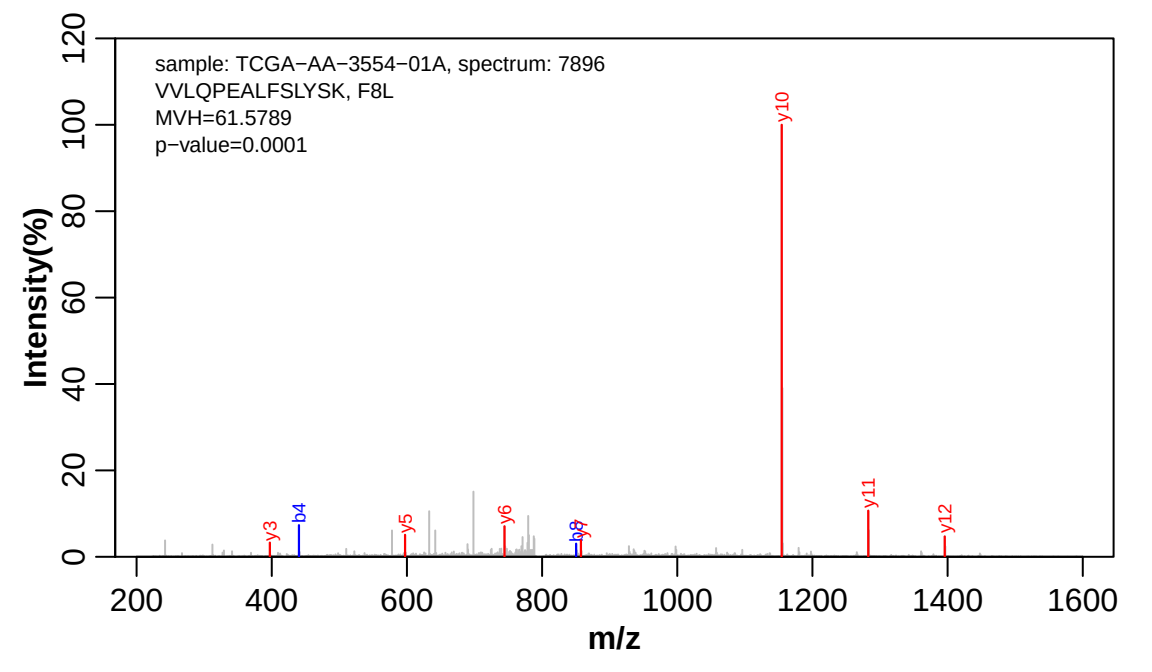

sample: TCGA−AA−3554−01A, spectrum: 55833
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=49.9670
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4−H2O
b4
y3
y4
b12++−H2O
y6
y7
y8
b17++
b21++
b23++−H2O
b14
b13−NH3

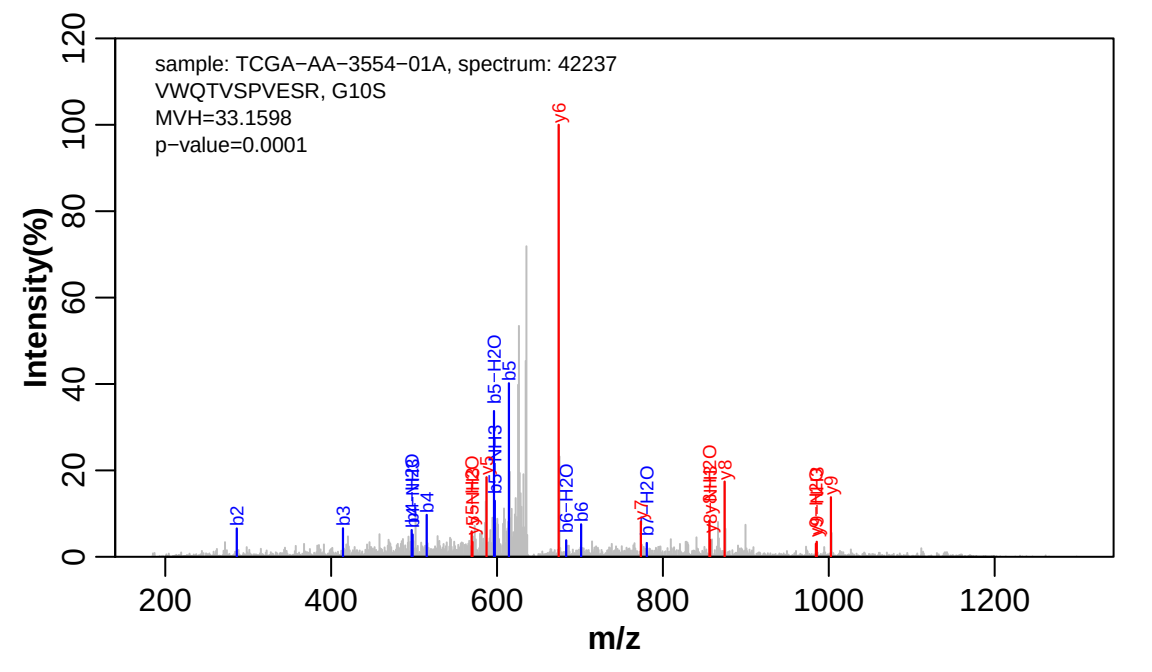

sample: TCGA−AA−3554−01A, spectrum: 74147
TVEDLDGLLQQLYR, H10Q
MVH=61.7247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
y4
y9
y2
y3
b12
b8
b3−H2O
b4−H2O
b5−H2O
b6−H2O
b9−H2O
b10−H2O
b9−NH3
y8−NH3
y9−NH3
b13

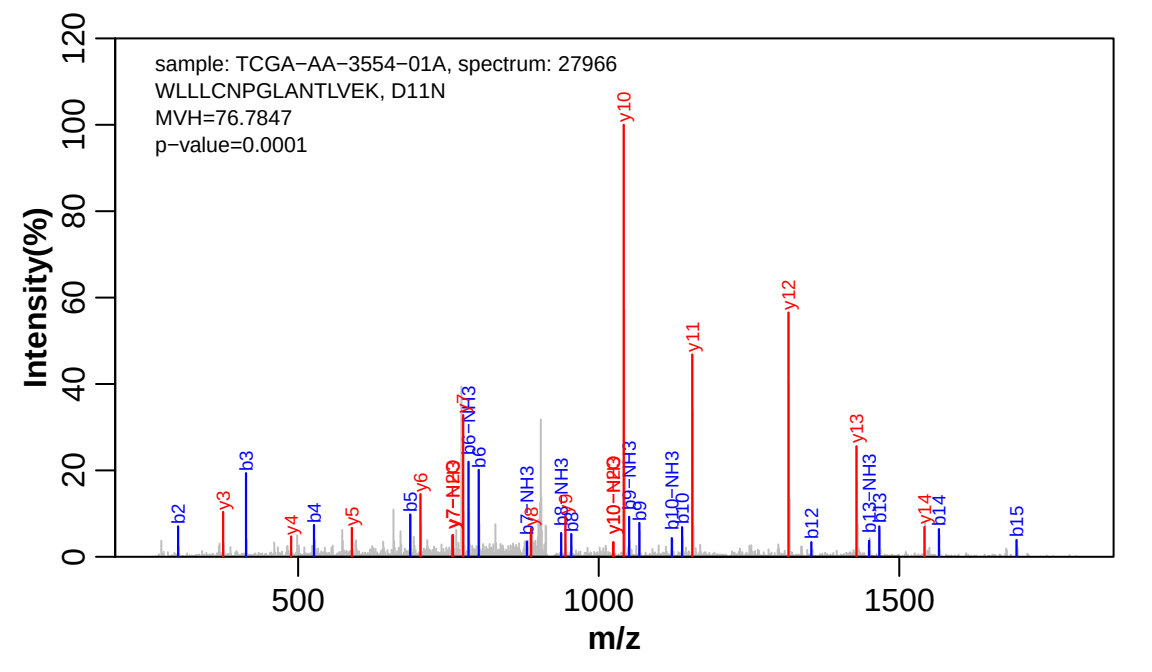

sample: TCGA−AA−3554−01A, spectrum: 71421
VFSVAELQAR, S9A
MVH=58.7158
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
b6−H2O
b6−NH3
b6
y6
b7−H2O
b7
y7
y8
b8
b9

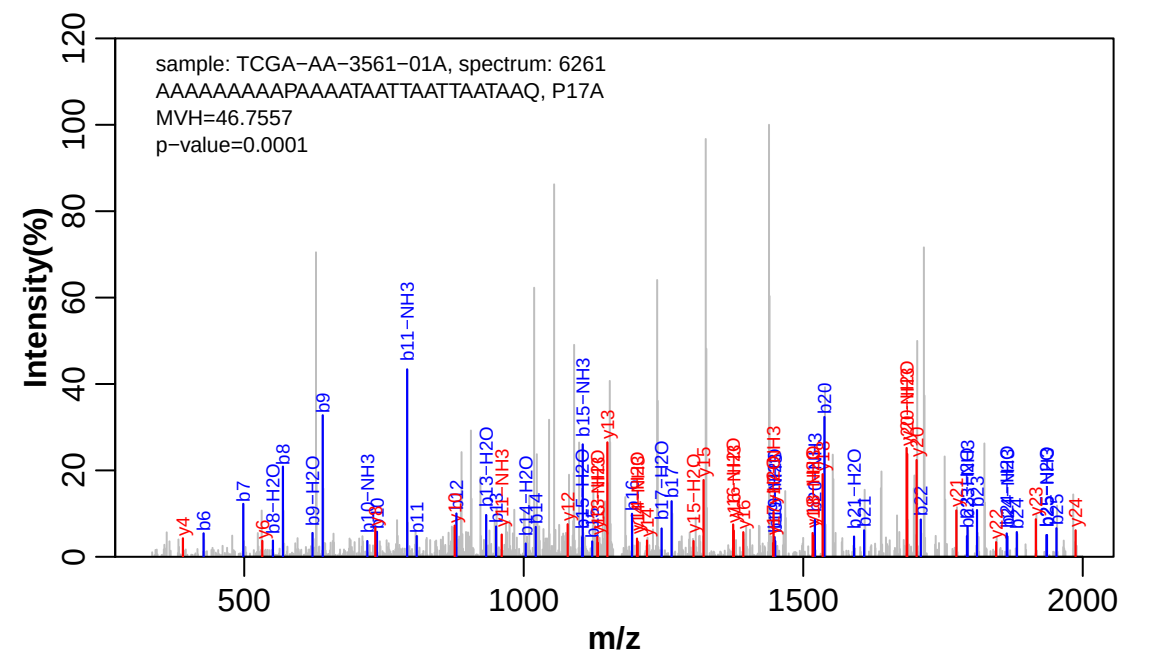

sample: TCGA−AA−3554−01A, spectrum: 66861
VPVTQATR, L3V
MVH=36.9778
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1
b2
b3
y4
y5
y6
y7

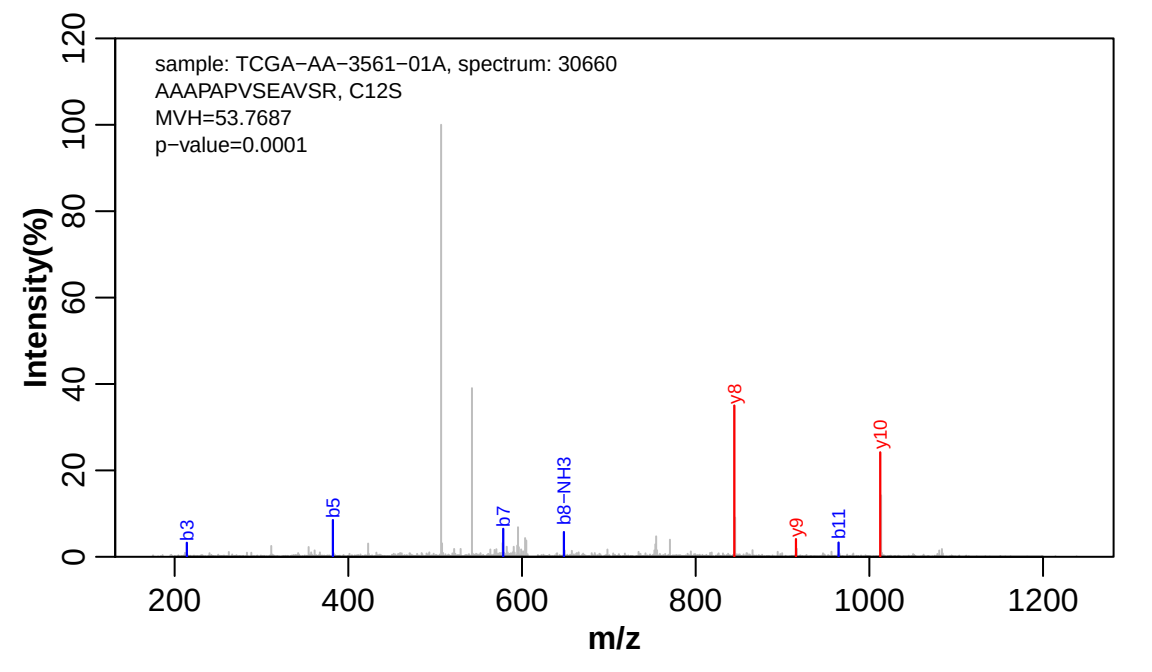

sample: TCGA−AA−3554−01A, spectrum: 103269
VQLPTESLQELLDLHR, T7S
MVH=30.3543
p−value=0.0001
y13++
y14++
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

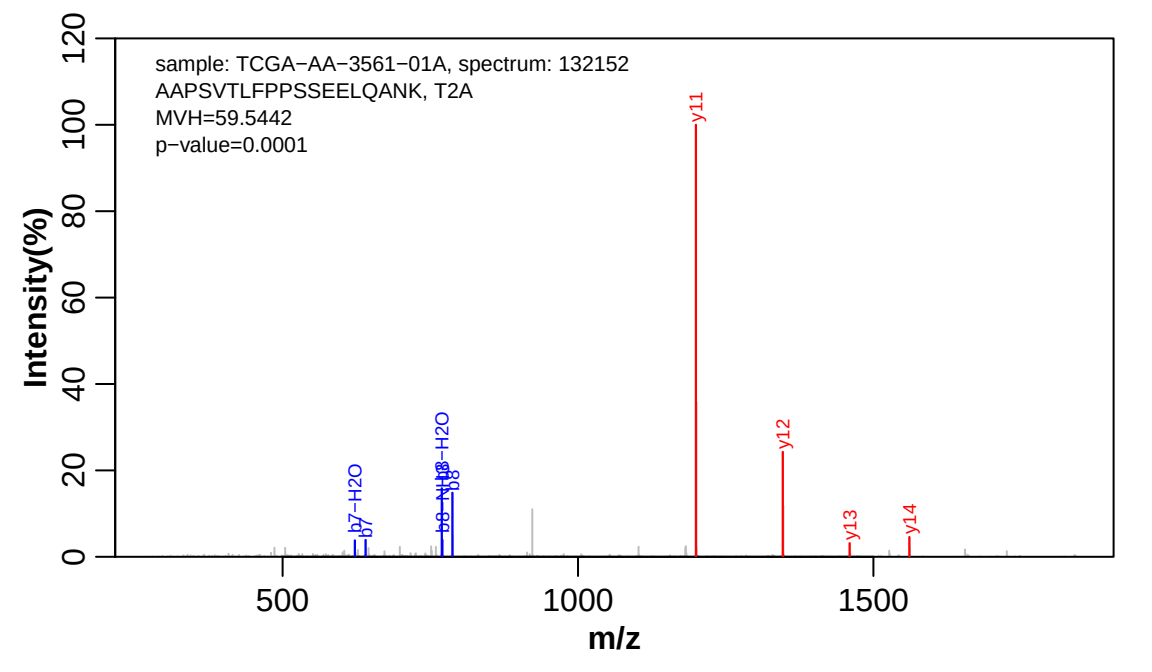

sample: TCGA−AA−3554−01A, spectrum: 7896
VVLQPEALFSLYSK, F8L
MVH=61.5789
p−value=0.0001
Intensity(%)
m/z
y10
y11
y12
y3
b4
y5
y6
b9
y9

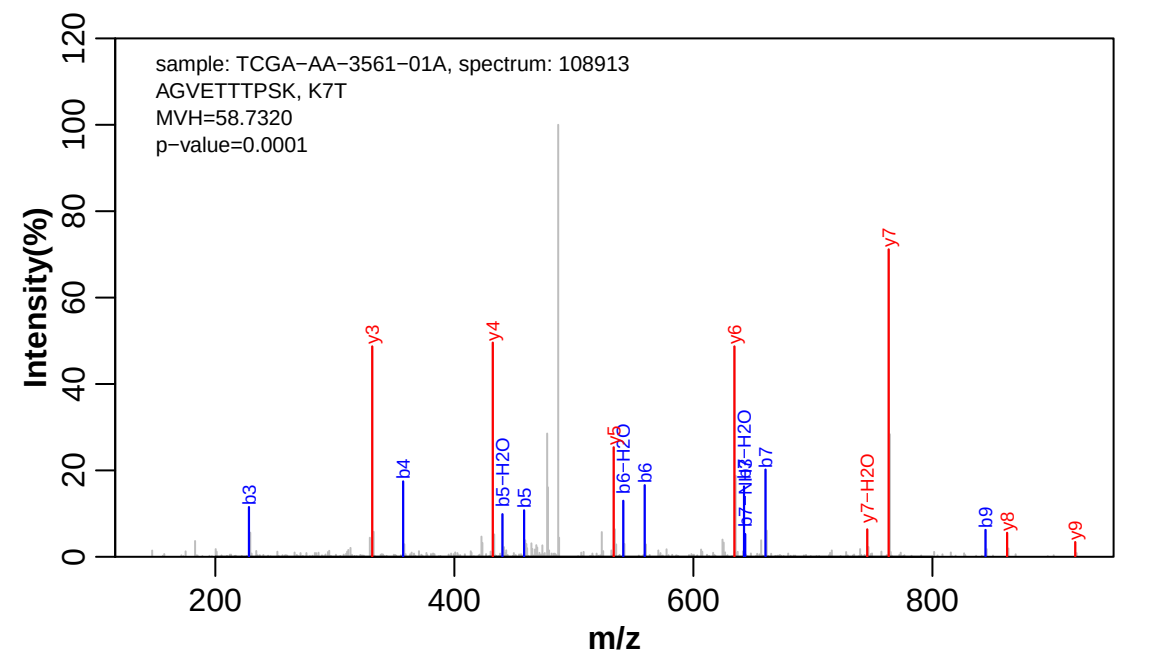

sample: TCGA−AA−3554−01A, spectrum: 42237
VWQTVSPVESR, G10S
MVH=33.1598
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b2
b3
b4
b5
b5−H2O
b5−NH3
b6
b6−H2O
b7
b7−H2O
y8
y9

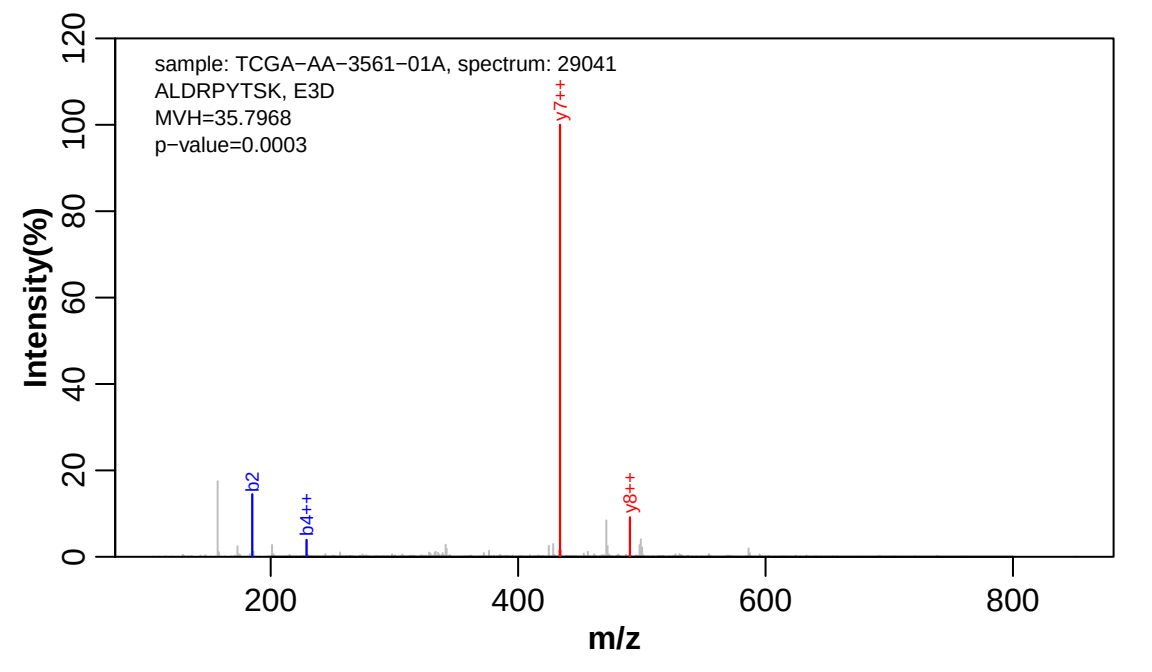

sample: TCGA−AA−3554−01A, spectrum: 27966
WLLLCNPGLANTLVEK, D11N
MVH=76.7847
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y12
y11
y13
y14
b15
b12
b13
b14
b3
b2
y3
y4
b4
y5
b5
y6
b6
b7
b8
b9
b10
y7−NH3
b6−NH3
y8−NH3
b8−NH3
b9−NH3
y10−NH3
b10−NH3
b13−NH3

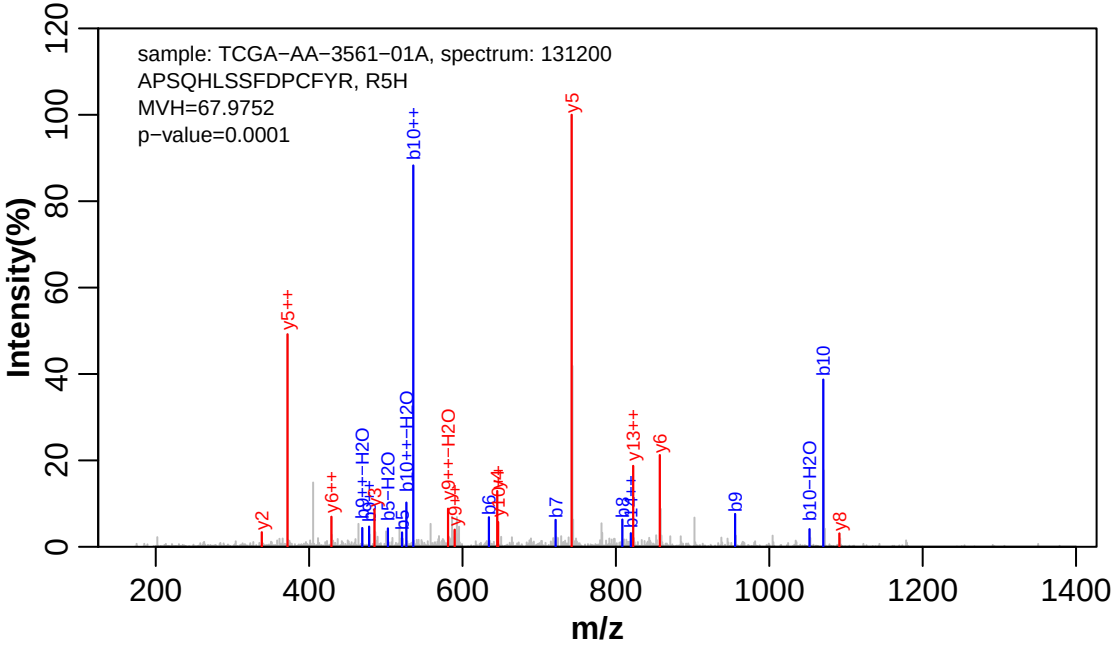

sample: TCGA−AA−3561−01A, spectrum: 6261
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=46.7557
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b11−NH3
b11
b9
b7
b8
b6
y4
y6
b8−H2O
b9−H2O
b10−NH3
b10
b13−H2O
b13−NH3
b14−H2O
b15−NH3
y13
b17−H2O
y15−H2O
b20
b21−H2O
b22
b23
y24

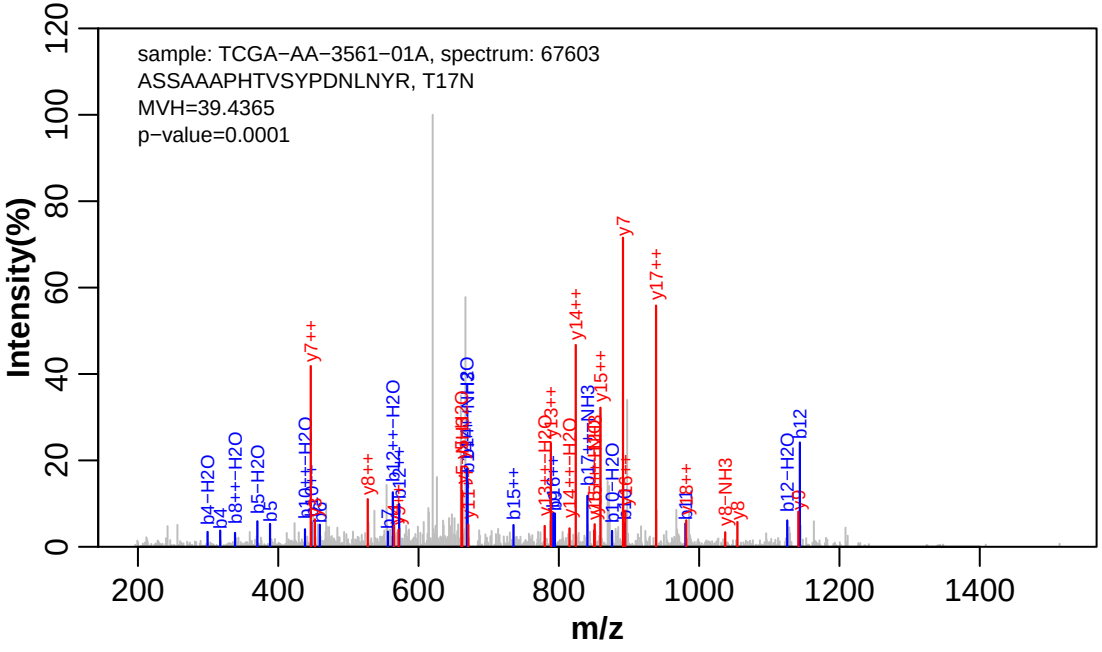

sample: TCGA−AA−3561−01A, spectrum: 30660
AAAPAPVSEAVSR, C12S
MVH=53.7687
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b5
b7
b8−NH3
y8
y9
b11
y10

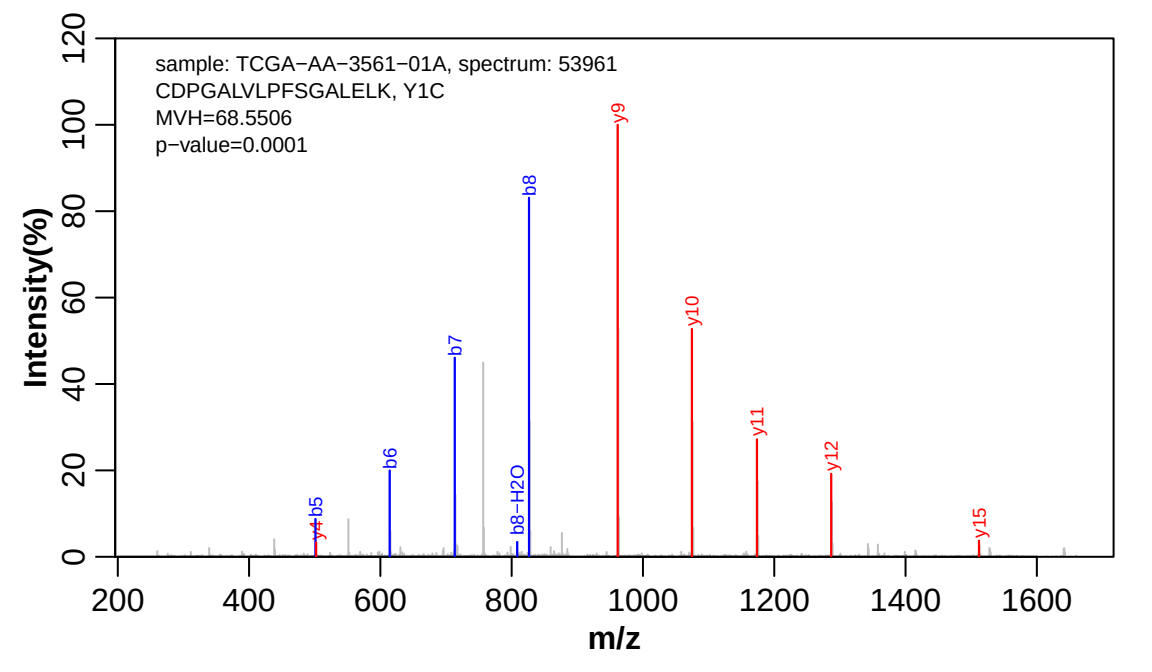

sample: TCGA−AA−3561−01A, spectrum: 132152
AAPSVTLFPPSSEELQANK, T2A
MVH=59.5442
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8−NH3−H2O
b8−NH3
b8

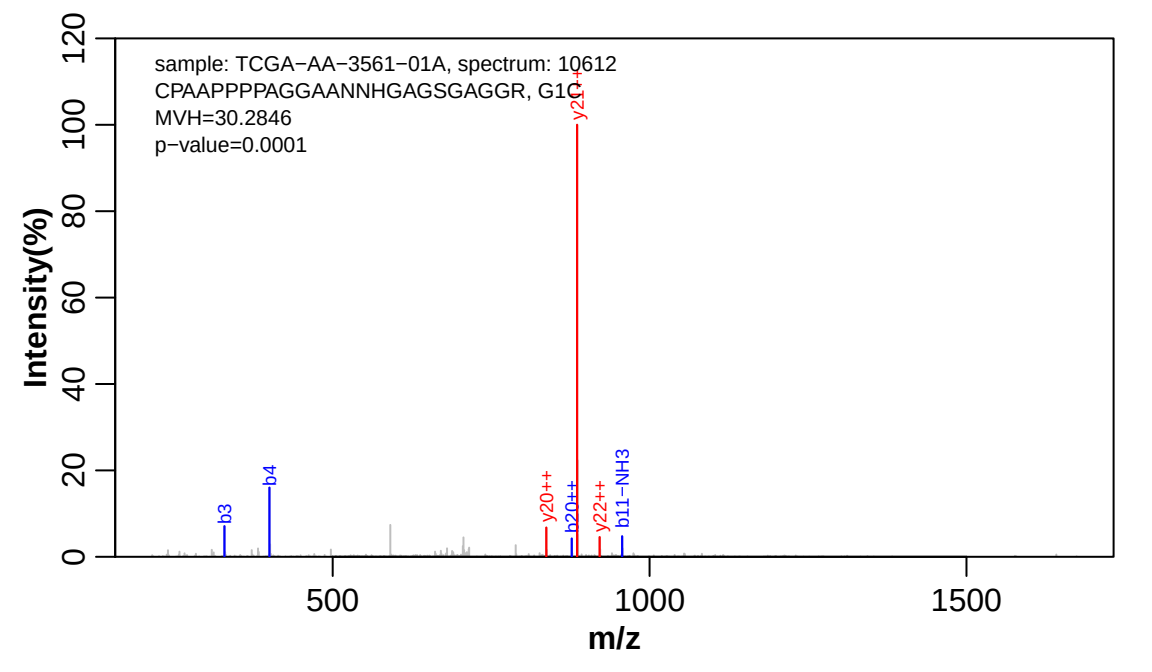

sample: TCGA−AA−3561−01A, spectrum: 108913
AGVETTTPSK, K7T
MVH=58.7320
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7−H2O
y7
b9
y8
y9

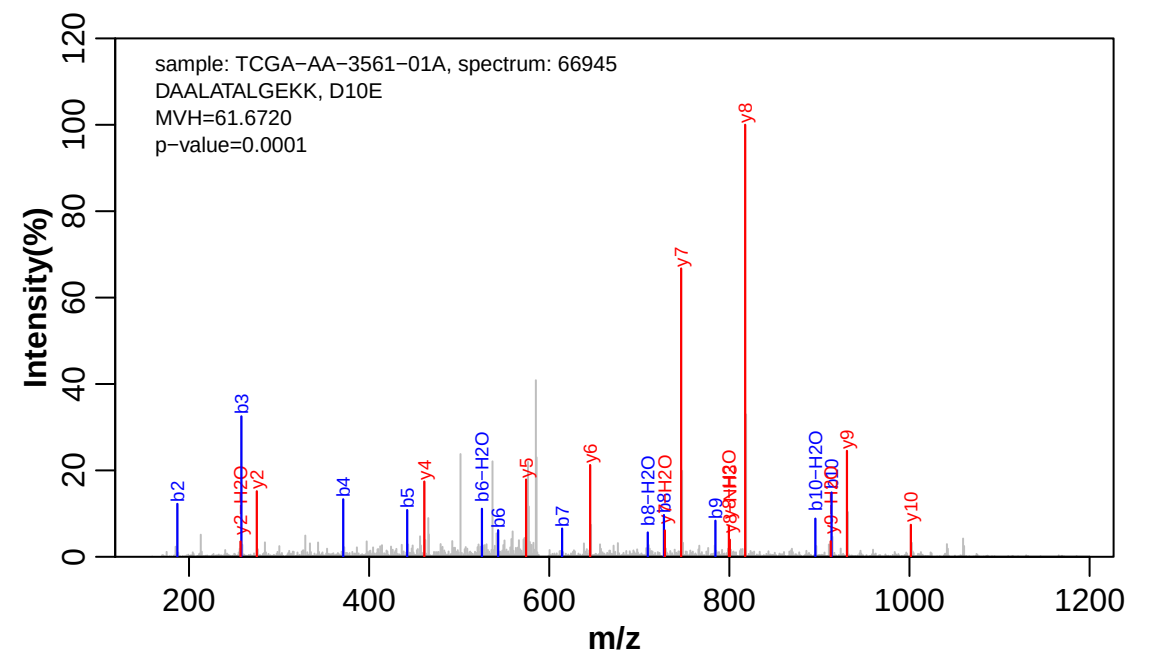

sample: TCGA−AA−3561−01A, spectrum: 29041
ALDRPYTSK, E3D
MVH=35.7968
p−value=0.0003
y7++
b2
b4++
y8++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z

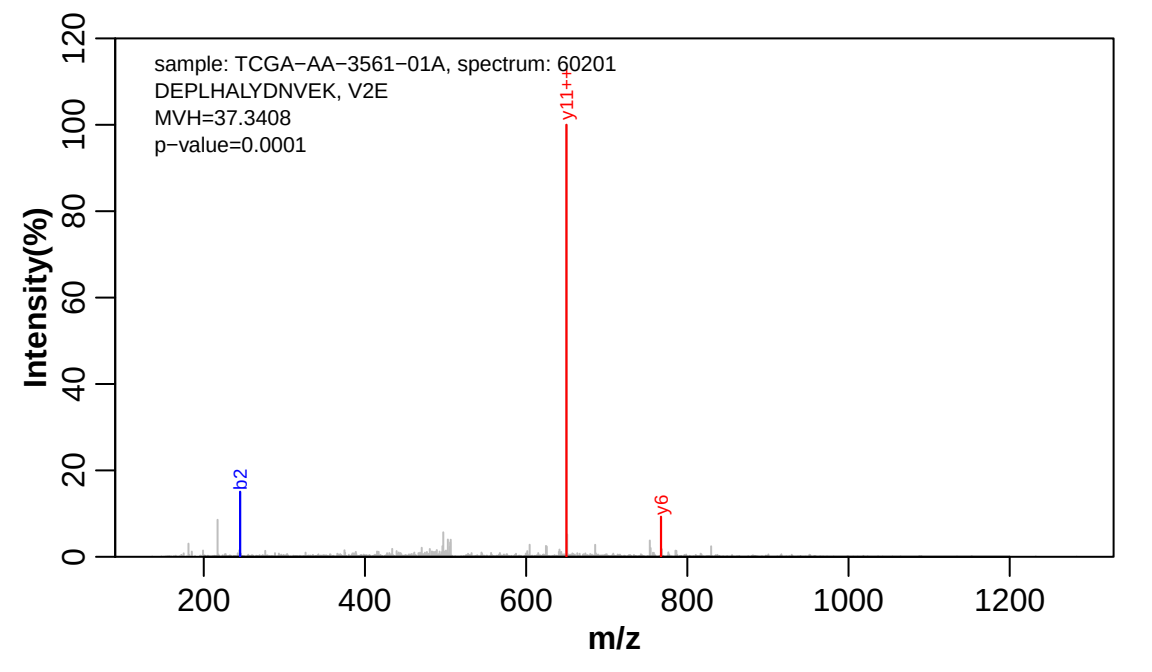

sample: TCGA−AA−3561−01A, spectrum: 131200
APSQHLSSFDPCFYR, R5H
MVH=67.9752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y5++
y6++
b8++−H2O
b8++
y7++
b5−H2O
b5
b10++−H2O
b10++
y9++−H2O
y9++
b6
y10++
b7
y5
b8
y13++
y6
b9
b10−H2O
b10
y8

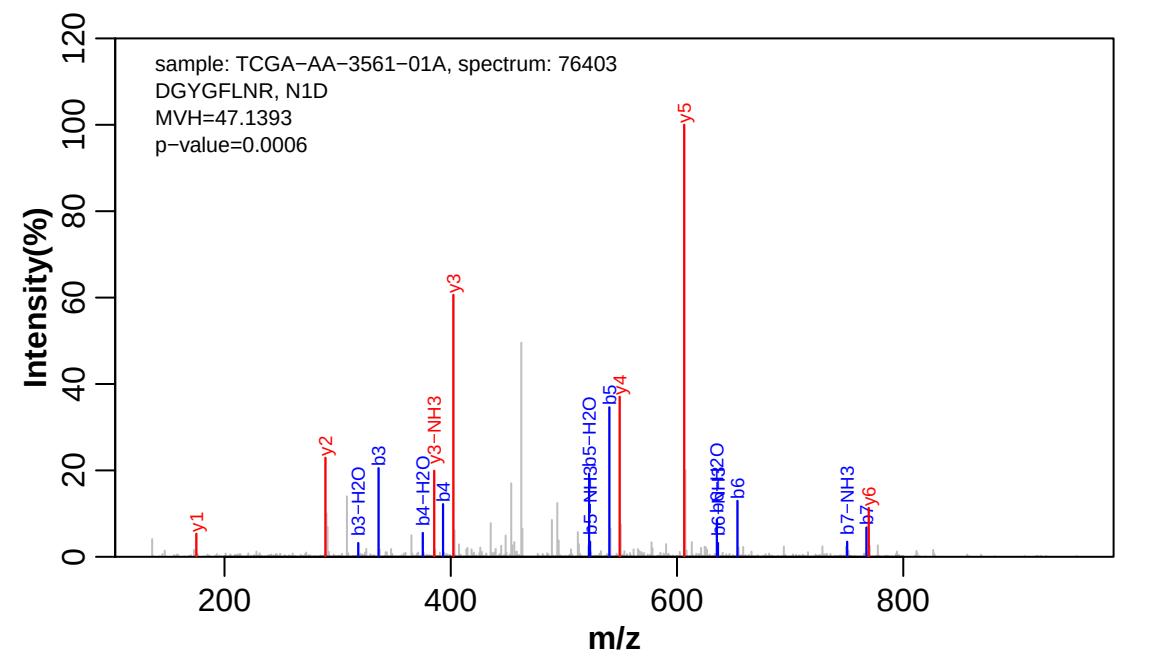

sample: TCGA−AA−3561−01A, spectrum: 67603
ASSAAAPHTVSYPDNLNYR, T17N
MVH=39.4365
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
b4
b8++−H2O
b5−H2O
b5
y7++
b10++−H2O
b8
y8++
b7
b12++−H2O
b15++
y14++
y15++
y7
y17++
b12
b12−H2O
y8−NH3
y8

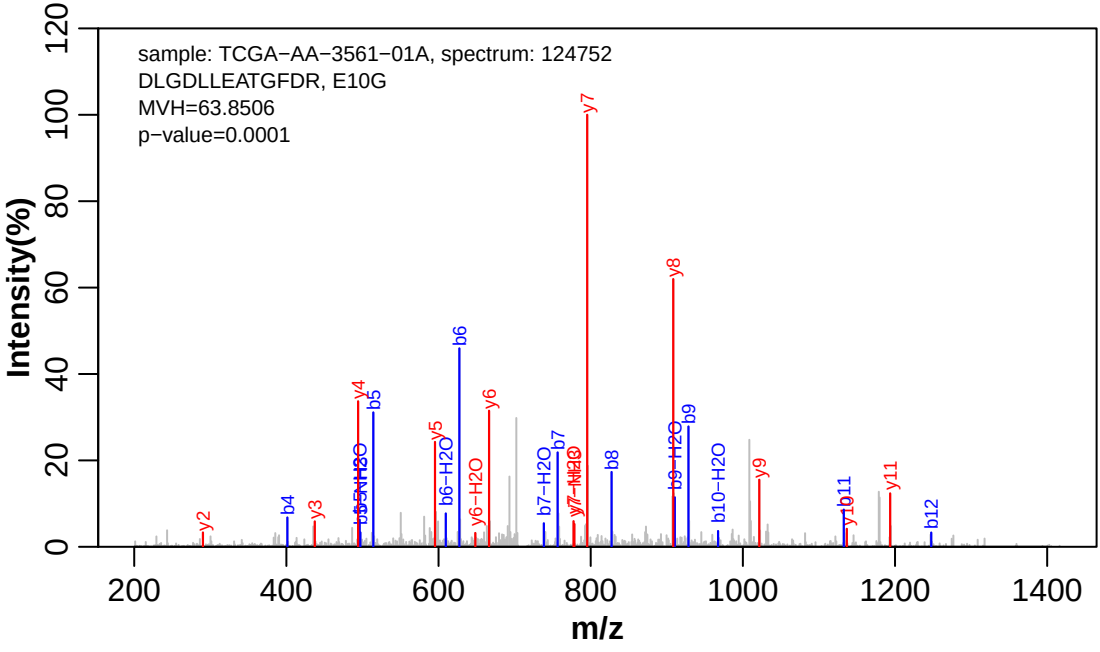

sample: TCGA−AA−3561−01A, spectrum: 53961
CDPGALVLPFSGALELK, Y1C
MVH=68.5506
p−value=0.0001
Intensity(%)
m/z
y9
b8
y10
b7
y11
b6
y12
y4
b5
b8−H2O
y15

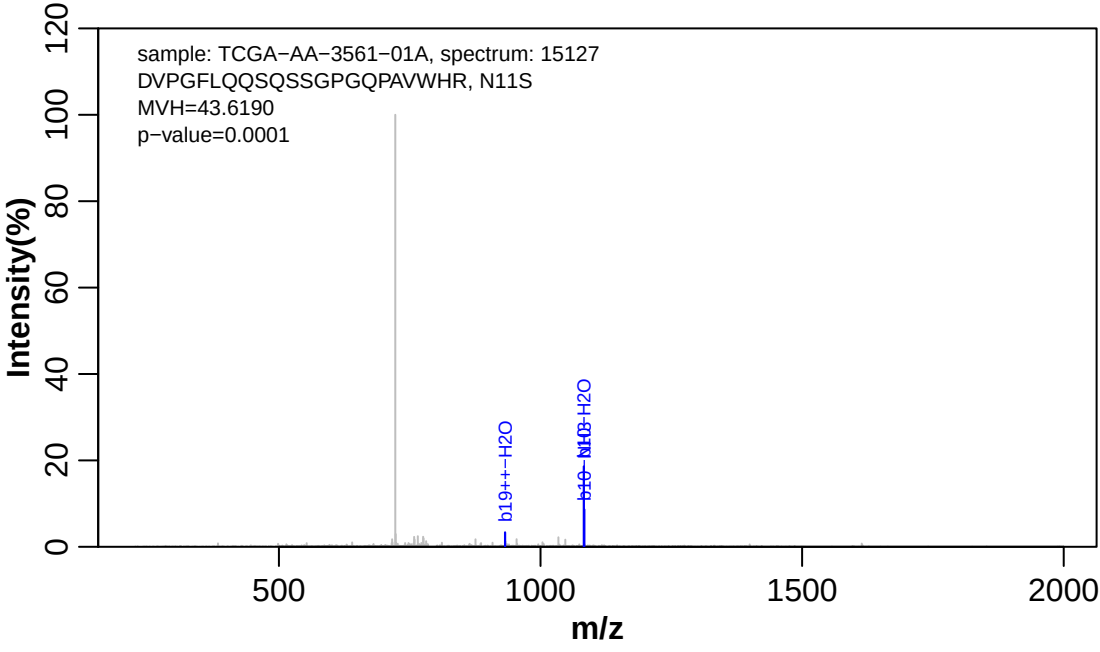

sample: TCGA−AA−3561−01A, spectrum: 10612
CPAAPPPPAGGAANNHGAGSGAGGR, G1C
MVH=30.2846
p−value=0.0001
y21++
b3
b4
y20++
b20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

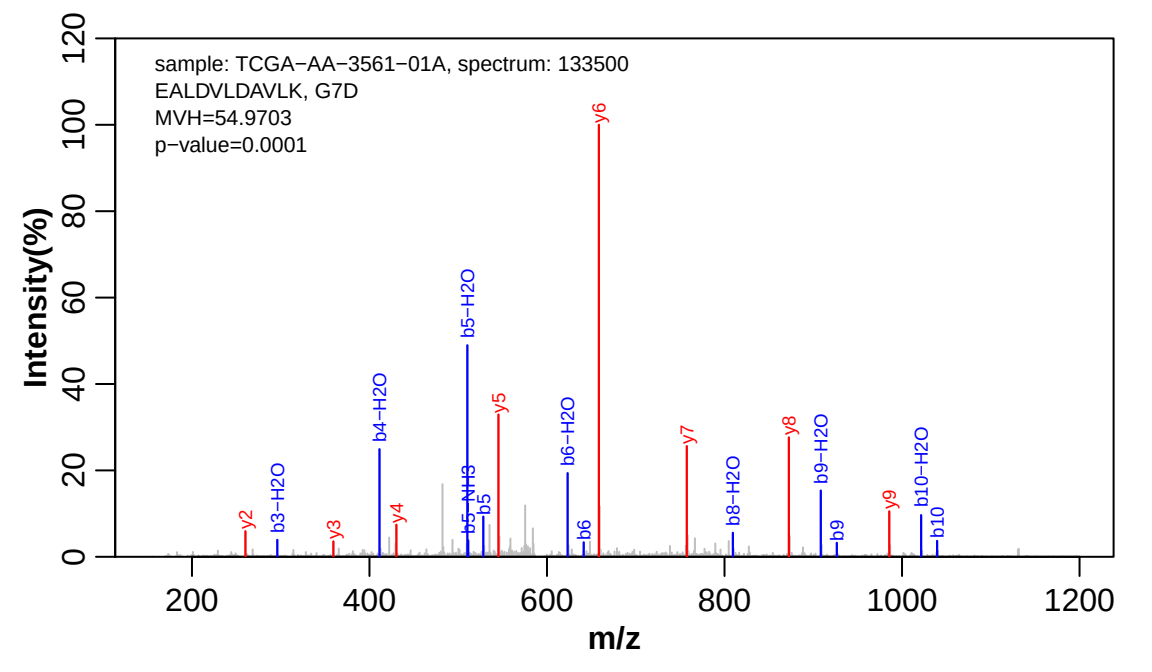

sample: TCGA−AA−3561−01A, spectrum: 66945
DAALATALGEKK, D10E
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y2−H2O
y2
b4
b5
y4
b6−H2O
b6
y5
b7
y6
b8−H2O
y8−H2O
y7
b9
y8−NH3
y8−H2O
y8
b10−H2O
y9−H2O
y9
y10

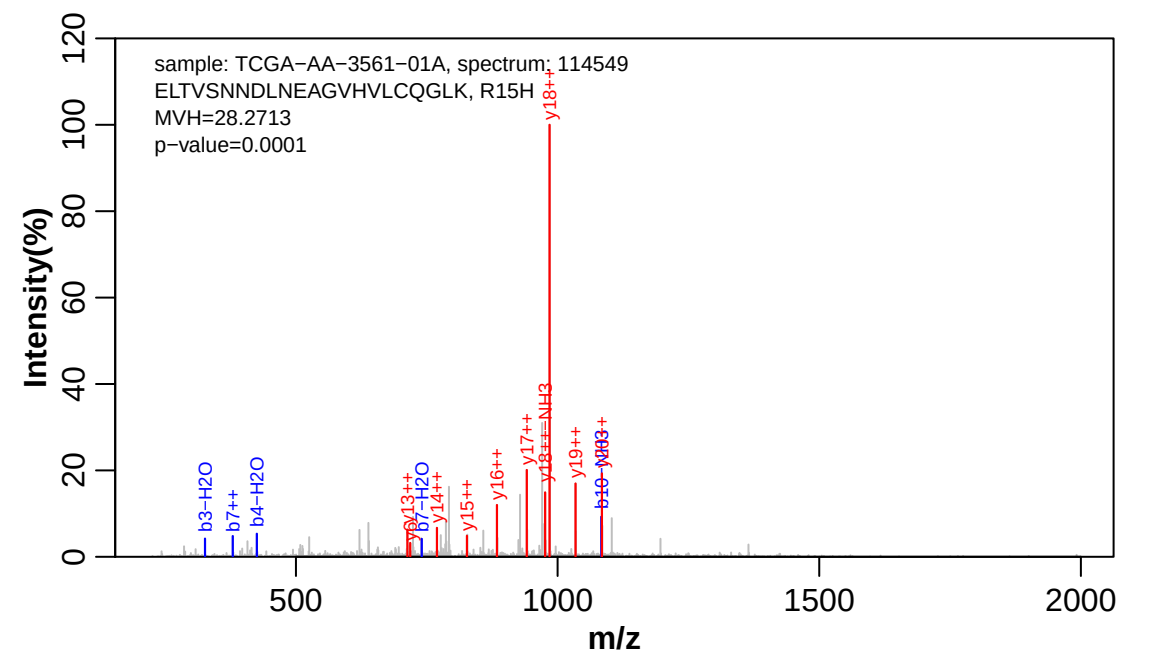

sample: TCGA−AA−3561−01A, spectrum: 60201
DEPLHALYDNVEK, V2E
MVH=37.3408
p−value=0.0001
y11++
b2
y6
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

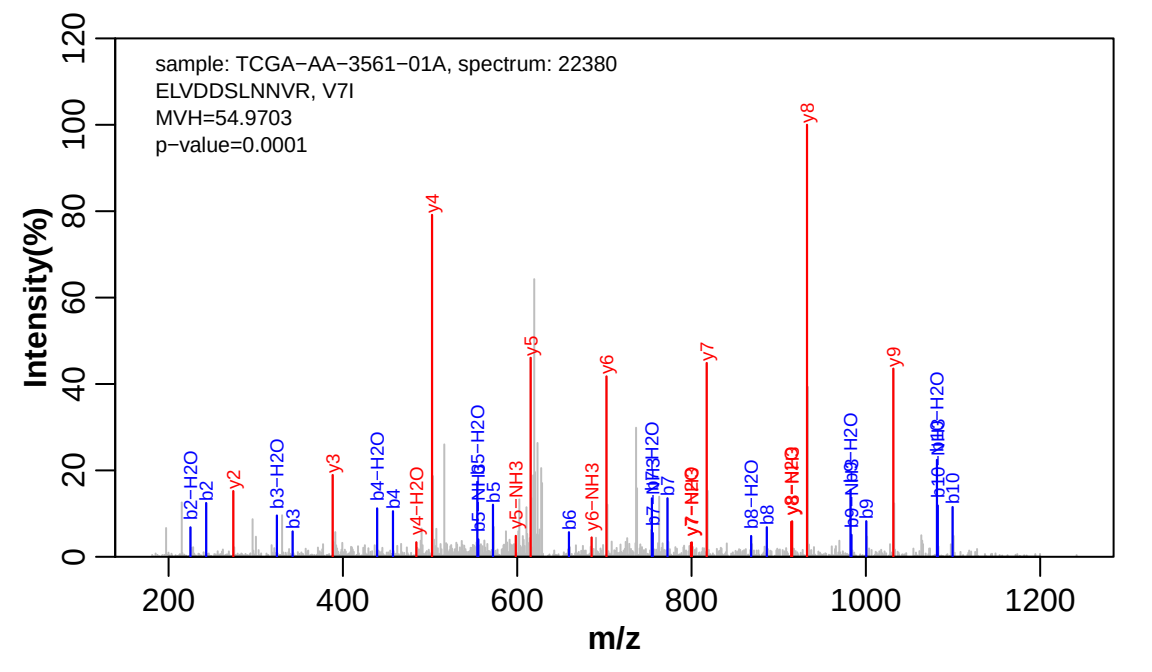

sample: TCGA−AA−3561−01A, spectrum: 76403
DGYGFLNR, N1D
MVH=47.1393
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6
b7−NH3
b7
y6

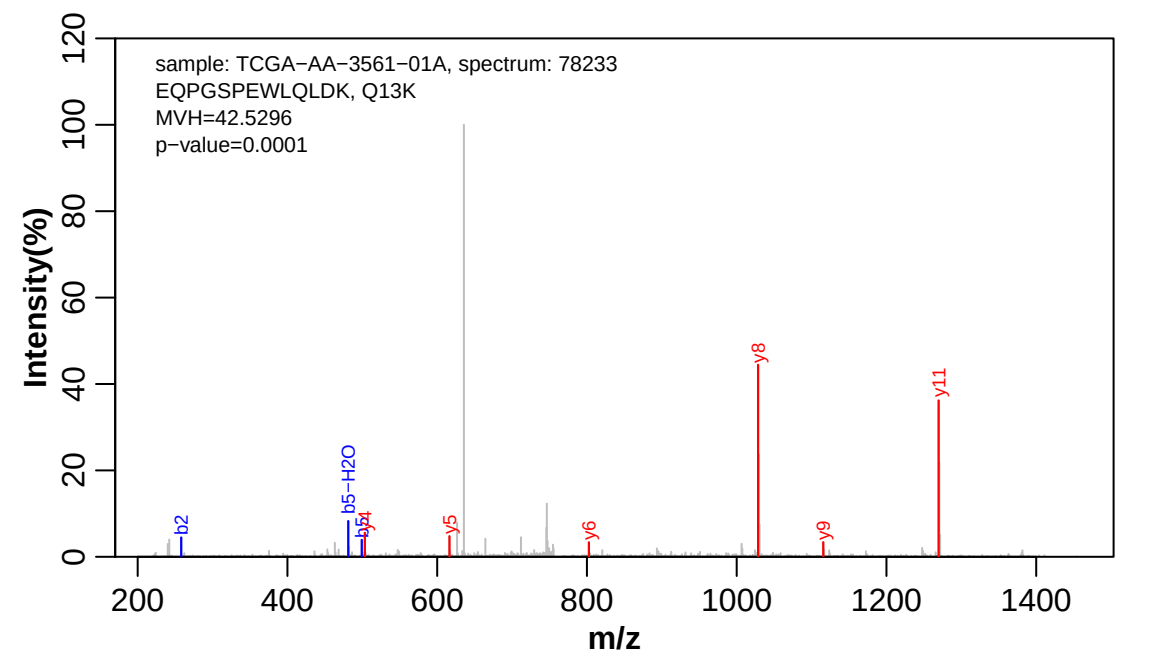

sample: TCGA−AA−3561−01A, spectrum: 124752
DLGDLLEATGFDR, E10G
MVH=63.8506
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4
y3
b5−NH3
b5−H2O
y4
b5
b6−H2O
y5
b6
y6−H2O
y6
b7−H2O
b7
y7−NH3
y7−H2O
y7
b8
b9−H2O
y8
b9
b10−H2O
y9
y10
b11
y11
b12

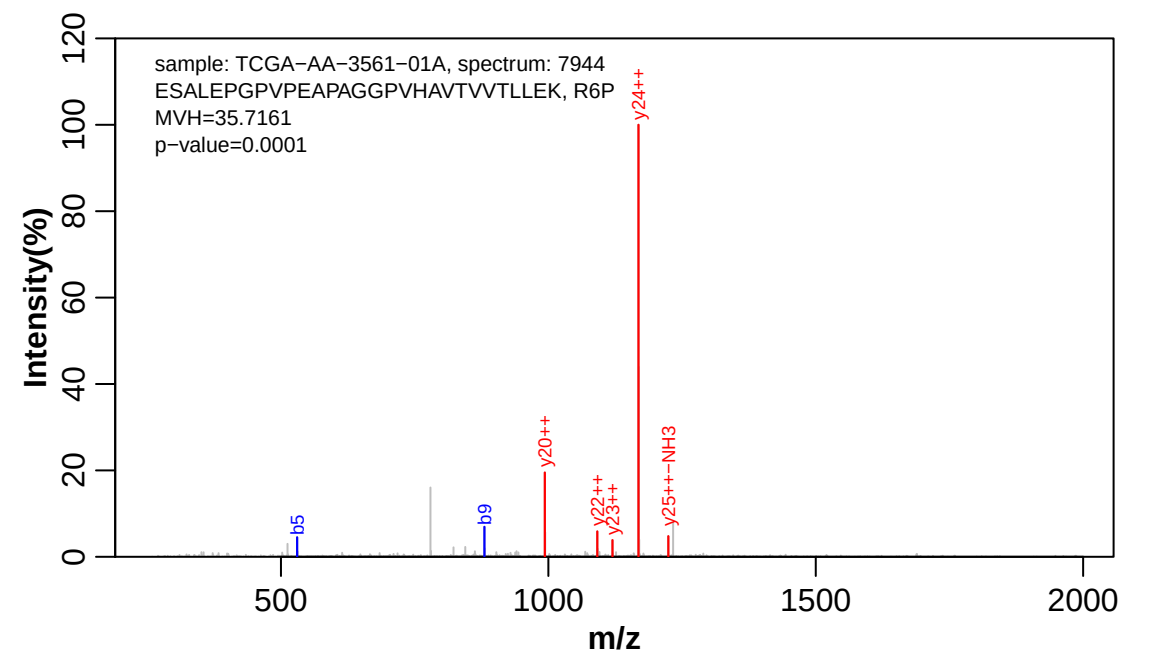

sample: TCGA−AA−3561−01A, spectrum: 15127
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=43.6190
p−value=0.0001
b19++−H2O
b10−NH3−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

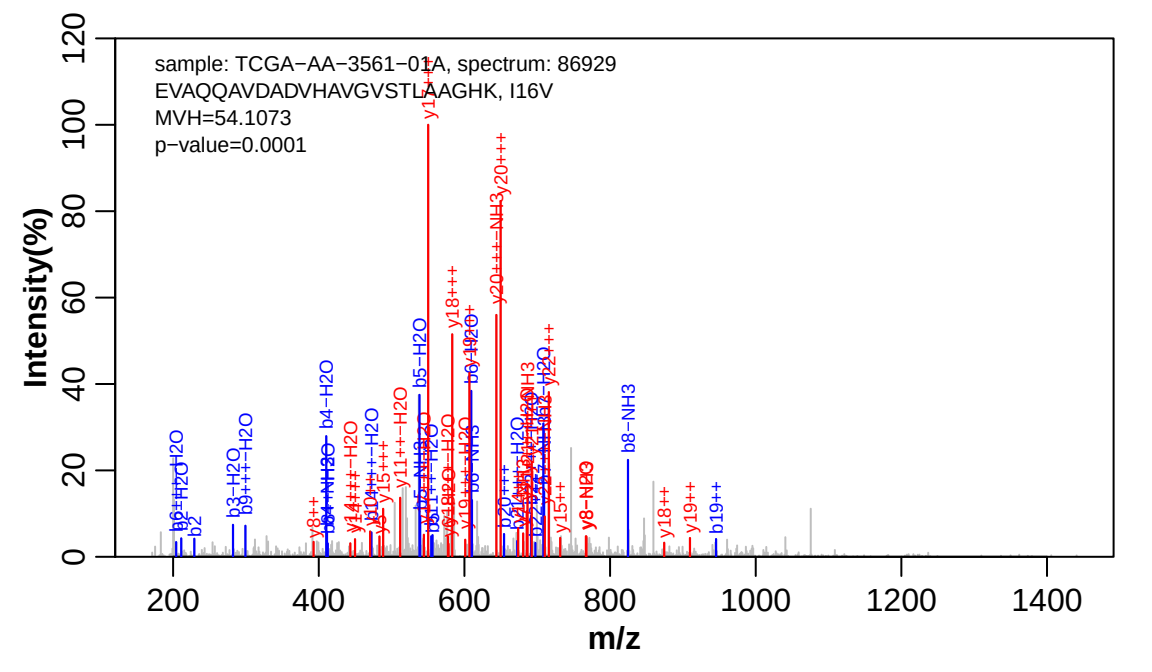

sample: TCGA−AA−3561−01A, spectrum: 133500
EALDVLDAVLK, G7D
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6
b6−H2O
y6
y7
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O

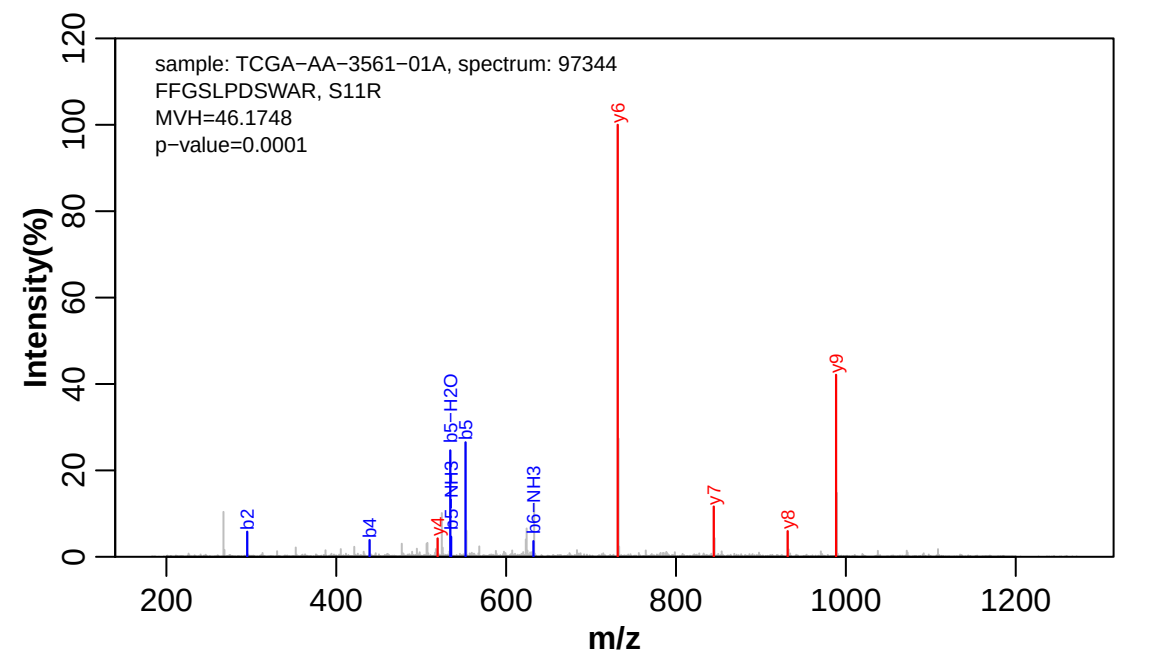

sample: TCGA−AA−3561−01A, spectrum: 114549
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=28.2713
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b7++
b4−H2O
y13++
b7−H2O
y14++
y15++
y16++
y17++
y18++−NH3
y18++
y19++
b10−NH3
b10++

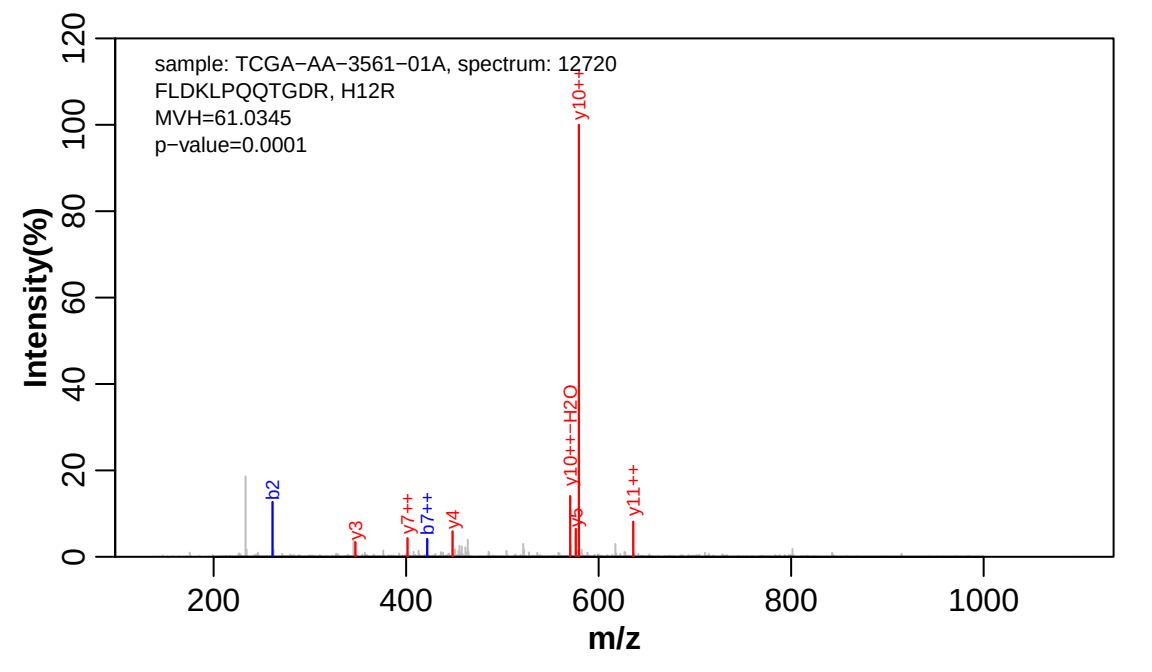

sample: TCGA−AA−3561−01A, spectrum: 22380
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7
b8−H2O
b8
y8−NH3
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

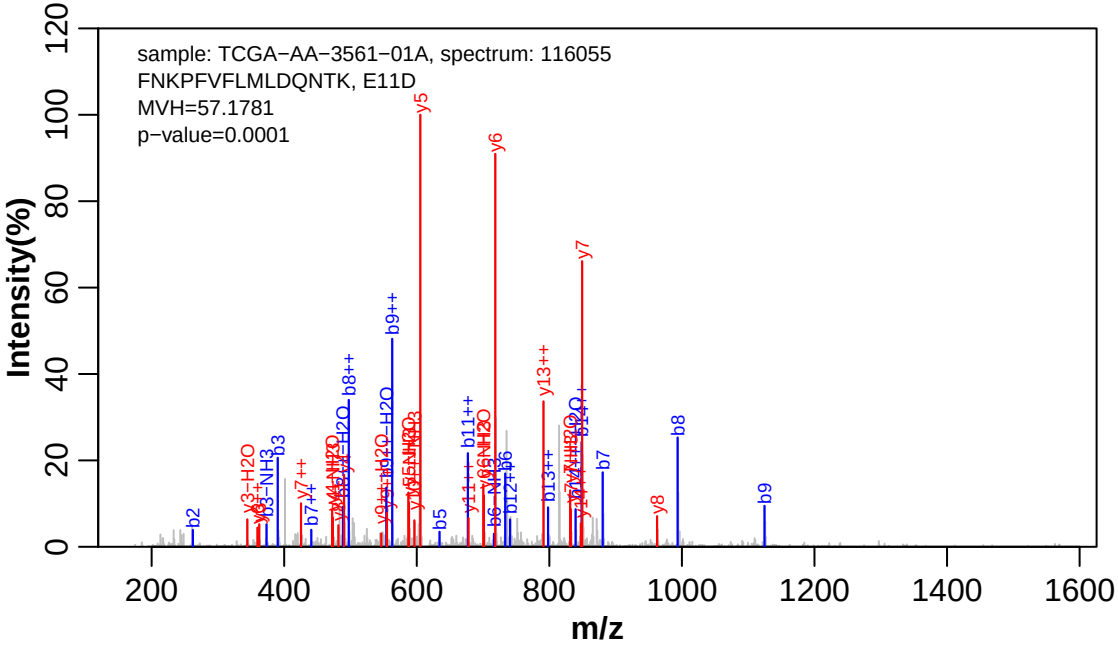

sample: TCGA−AA−3561−01A, spectrum: 78233
EQPGSPEWLQLDK, Q13K
MVH=42.5296
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2
b5−H2O
b5
y4
y5
y6
y8
y9
y11

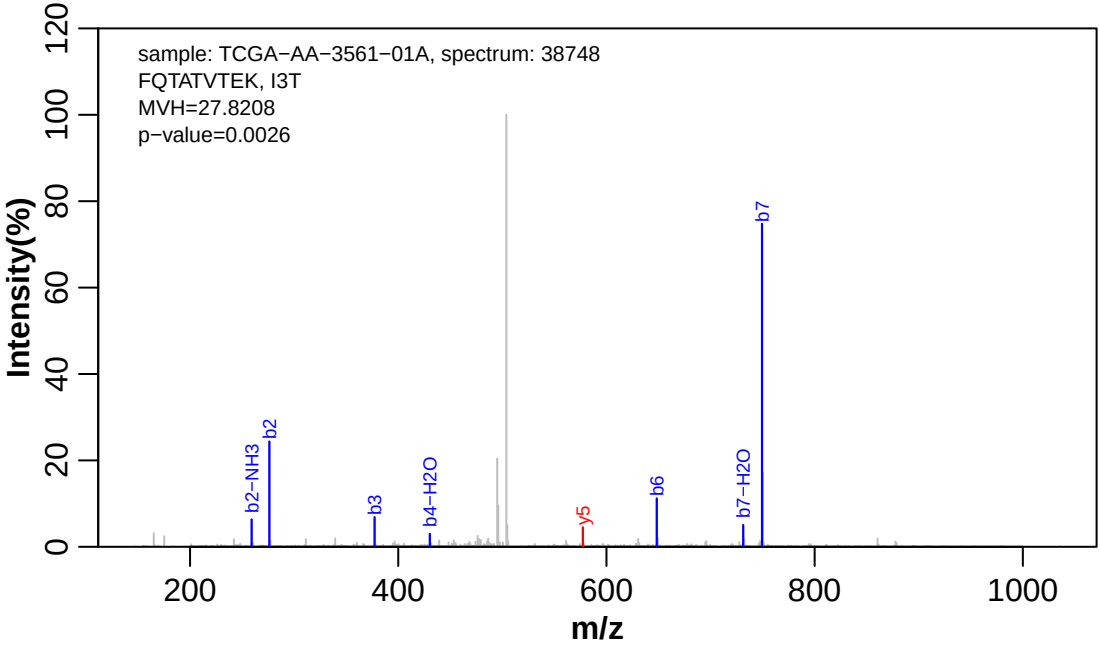

sample: TCGA−AA−3561−01A, spectrum: 7944
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=35.7161
p−value=0.0001
y24++
y20++
y22++
y23++
y25++−NH3
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

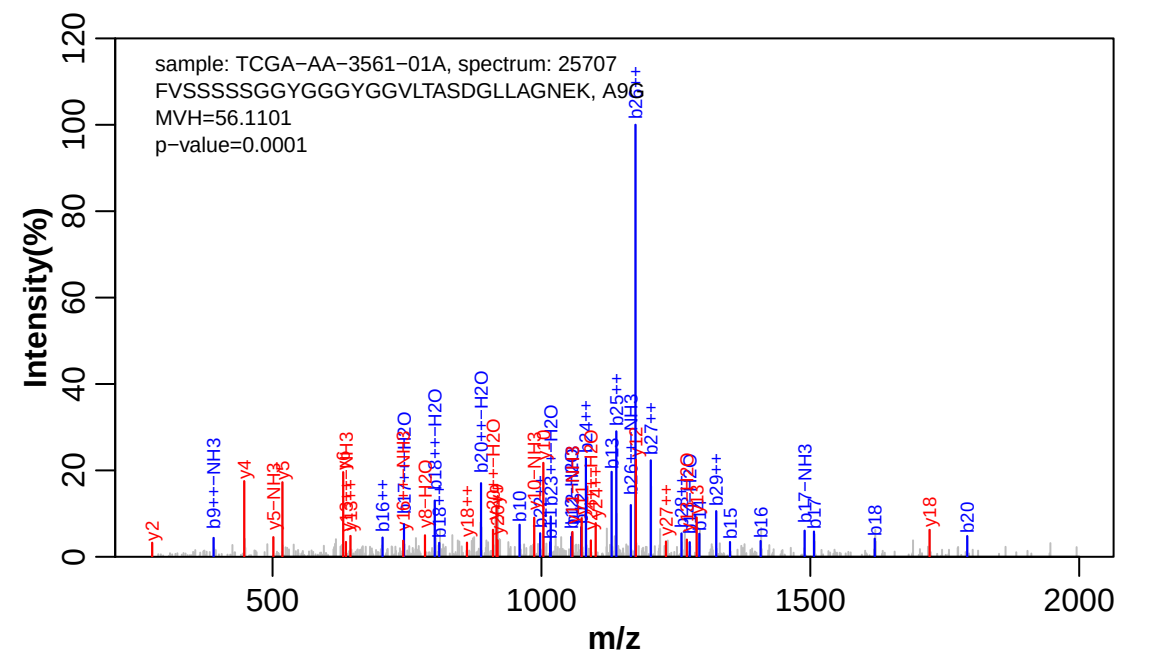

sample: TCGA−AA−3561−01A, spectrum: 86929
EVAQQAVDADVHAVGVSTLAAGHK, I16V
MVH=54.1073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11++
y20+++−NH3
y18+++
b5−H2O
b6+−NH3
b8−NH3
y18++
y19++
b19++

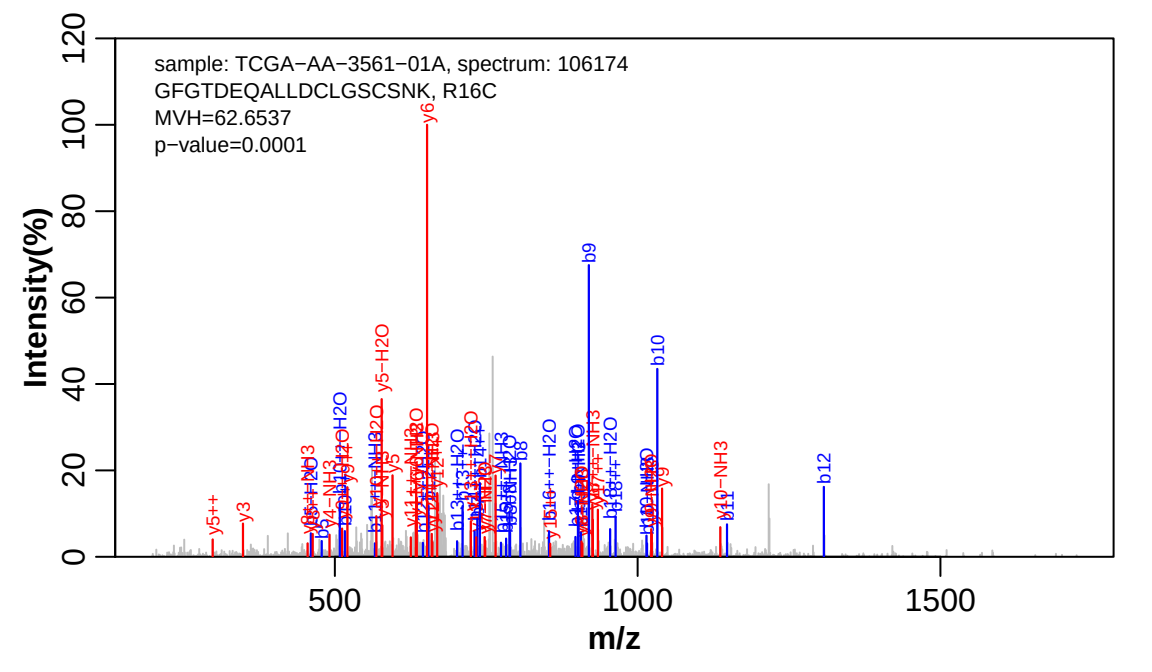

sample: TCGA−AA−3561−01A, spectrum: 97344
FFGSLPDSWAR, S11R
MVH=46.1748
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b5−H2O
b5
b5−NH3
b6−NH3
b2
b4
y4

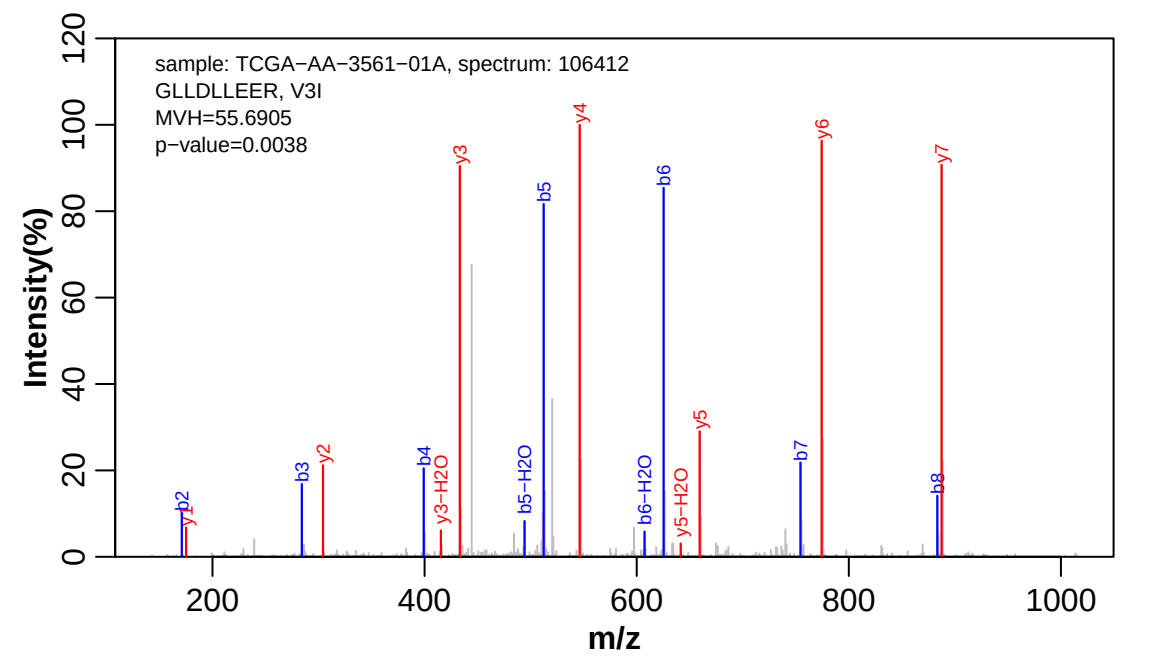

sample: TCGA−AA−3561−01A, spectrum: 12720
FLDKLPQQTGDR, H12R
MVH=61.0345
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y10++
y10++−H2O
y11++
b2
y3
y7++
b7++
y4
y5

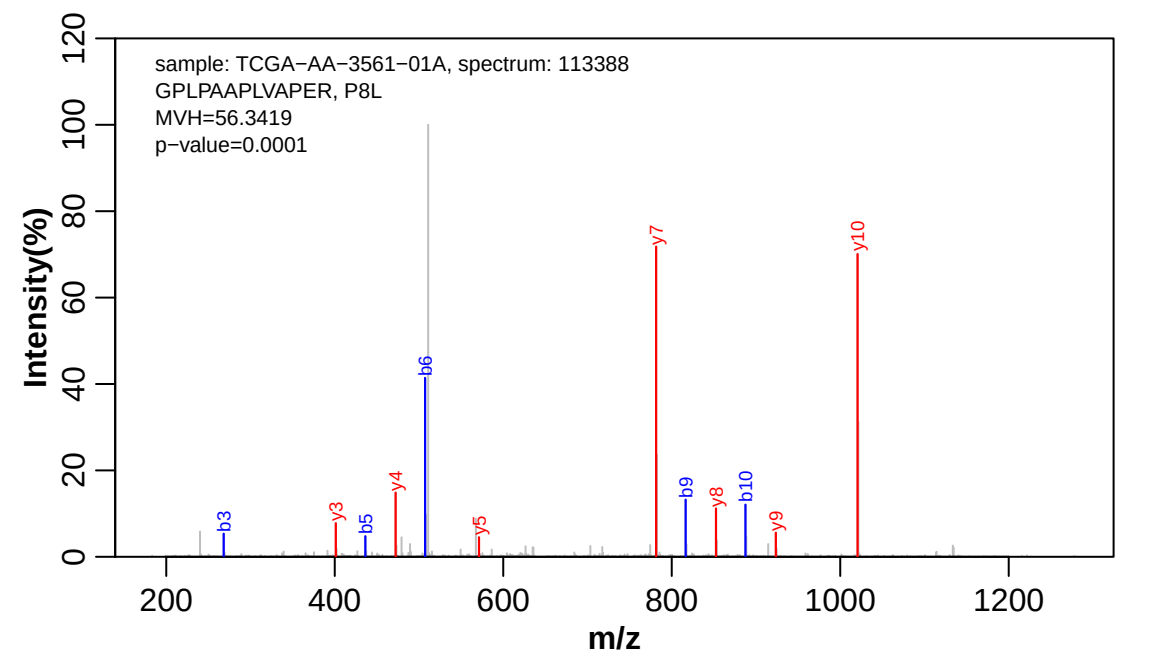

sample: TCGA−AA−3561−01A, spectrum: 116055
FNKPFVFLMLDQNTK, E11D
MVH=57.1781
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b2
b3
b5
b7
b8
b9
b9++
b8++
y13++
y11++
b11++
y3−H2O
b3−NH3
y7++
b7++
b12++
b13++
b12++
y12++
b6
b6−NH3
b6−H2O
y6−H2O
y5−H2O
y7−H2O
y8−H2O
b8−H2O
b9−H2O

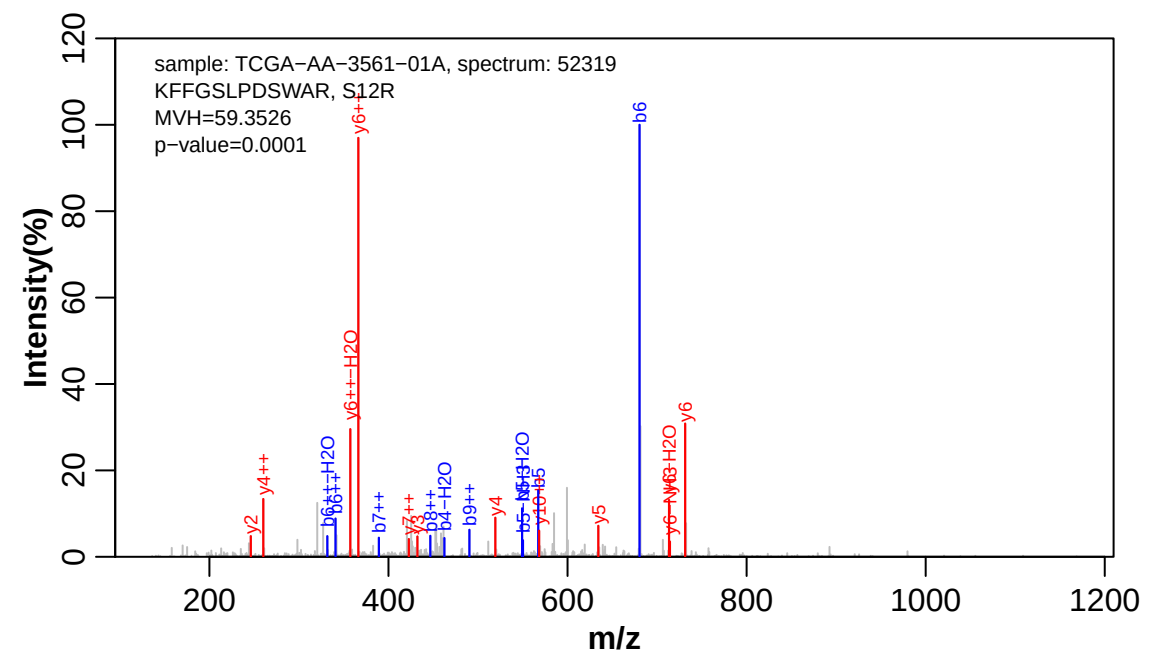

sample: TCGA−AA−3561−01A, spectrum: 38748
FQTATVTEK, I3T
MVH=27.8208
p−value=0.0026
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b4−H2O
y5
b6
b7−H2O
b7

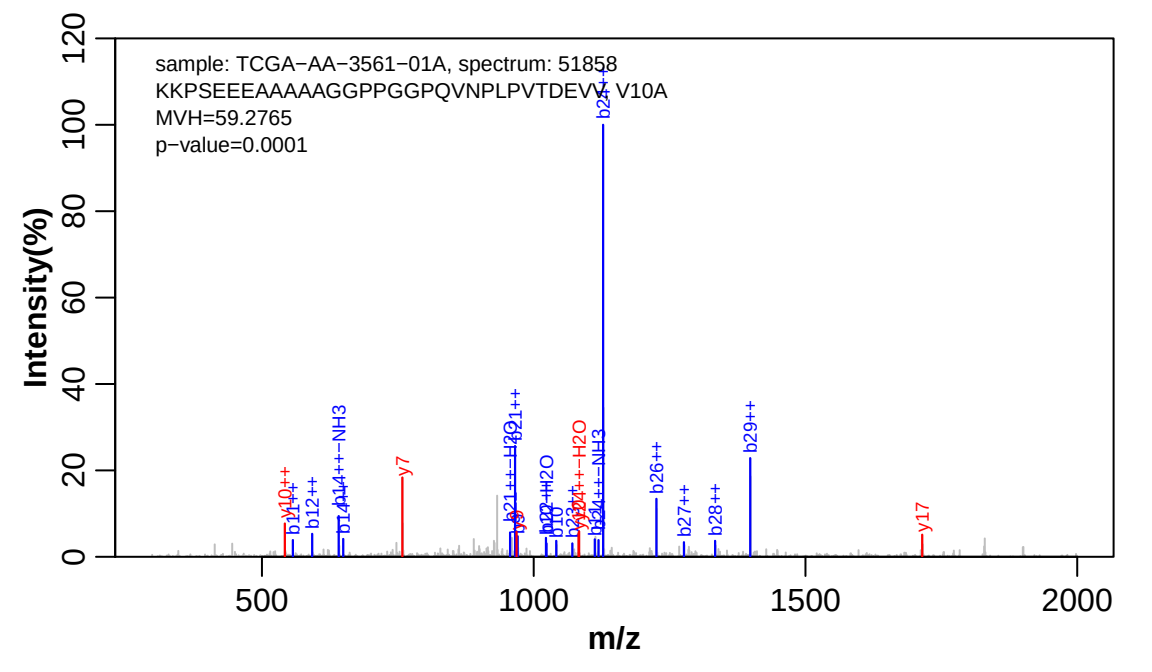

sample: TCGA−AA−3561−01A, spectrum: 25707
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=56.1101
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b9++−NH3
y4
y5−NH3
y5
b16++
b18++−H2O
y18++
b20++−H2O
b10
b18
y18
b20
b17−NH3
b15
b16
b29++
y27++
b25++
b27++
b26++
b13
b26++−NH3
b2++
b2
b26++−H2O
b27++−H2O
b2++−NH3
b2++−H2O
b2++−H2O
b2++−H2O

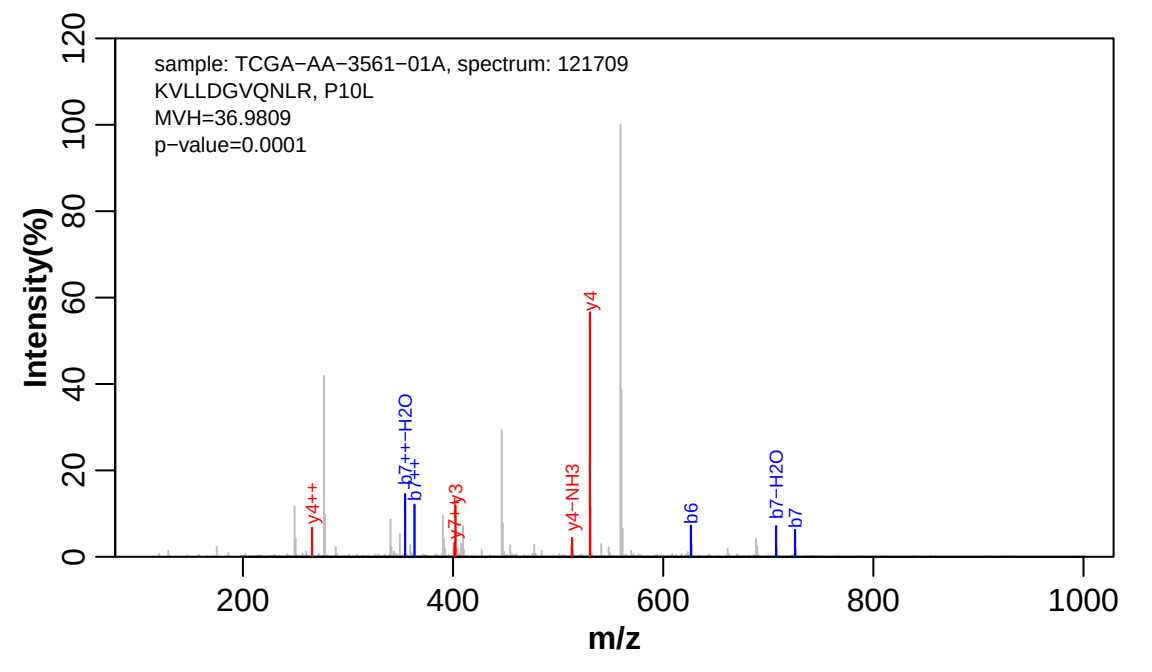

sample: TCGA−AA−3561−01A, spectrum: 106174
GFGTDEQALLDCLGSCSNK, R16C
MVH=62.6537
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y5++
y3
y10−NH3
y11

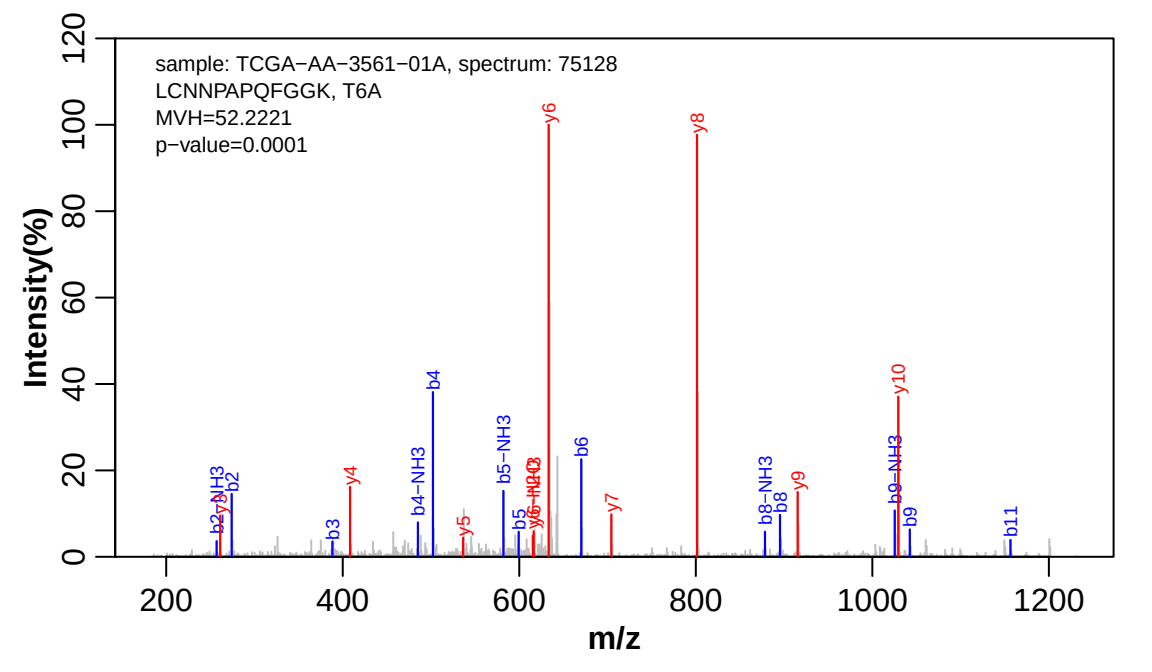

sample: TCGA−AA−3561−01A, spectrum: 106412
GLLDLLEER, V3I
MVH=55.6905
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
b4
y3−H2O
y3
b5−H2O
b5
y4
b6−H2O
b6
y5−H2O
y5
b7
y6
b8
y7

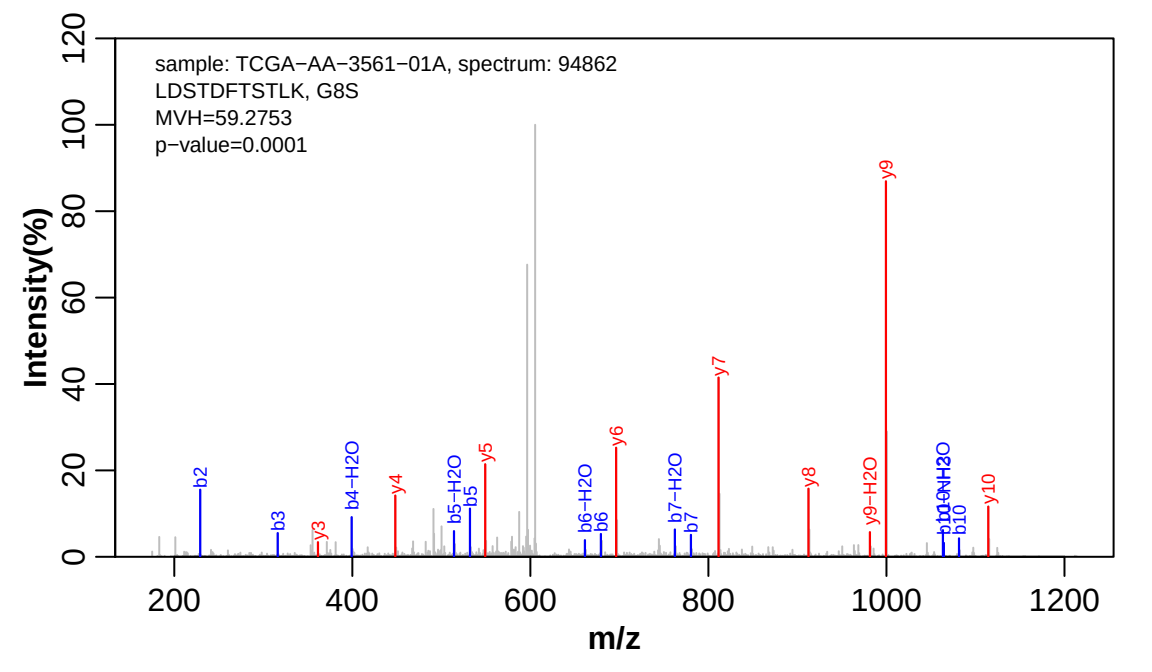

sample: TCGA−AA−3561−01A, spectrum: 113388
GPLPAAPLVAPER, P8L
MVH=56.3419
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
y3
b5
y4
b6
y5
y7
b9
y8
b10
y9
y10

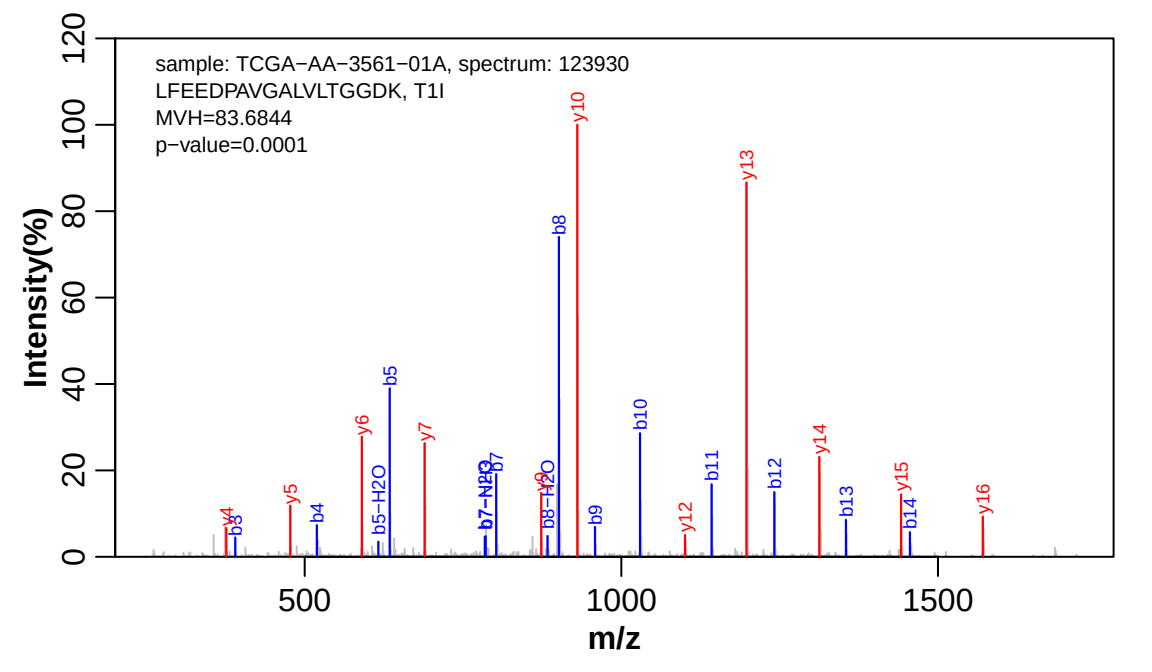

sample: TCGA−AA−3561−01A, spectrum: 52319
KFFGSLPDSWAR, S12R
MVH=59.3526
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6+
b6
y6++−H2O
y4++
y2
b6++−H2O
b6++
b7++
y7++
y3++
b3++
b4−H2O
b9++
y4
y5
y6
y6−NH3−H2O

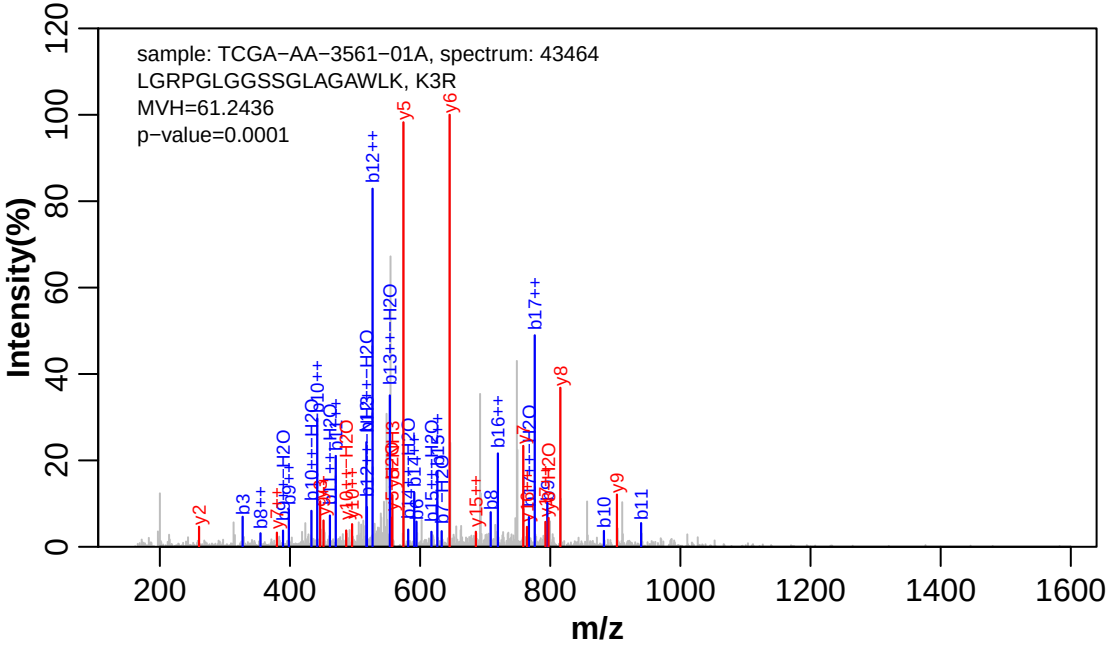

sample: TCGA−AA−3561−01A, spectrum: 51858
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=59.2765
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b14++−NH3
y7
b21++−H2O
b21++
b24++−H2O
b24++−NH3
b26++
b29++
y17
b27++
b28++

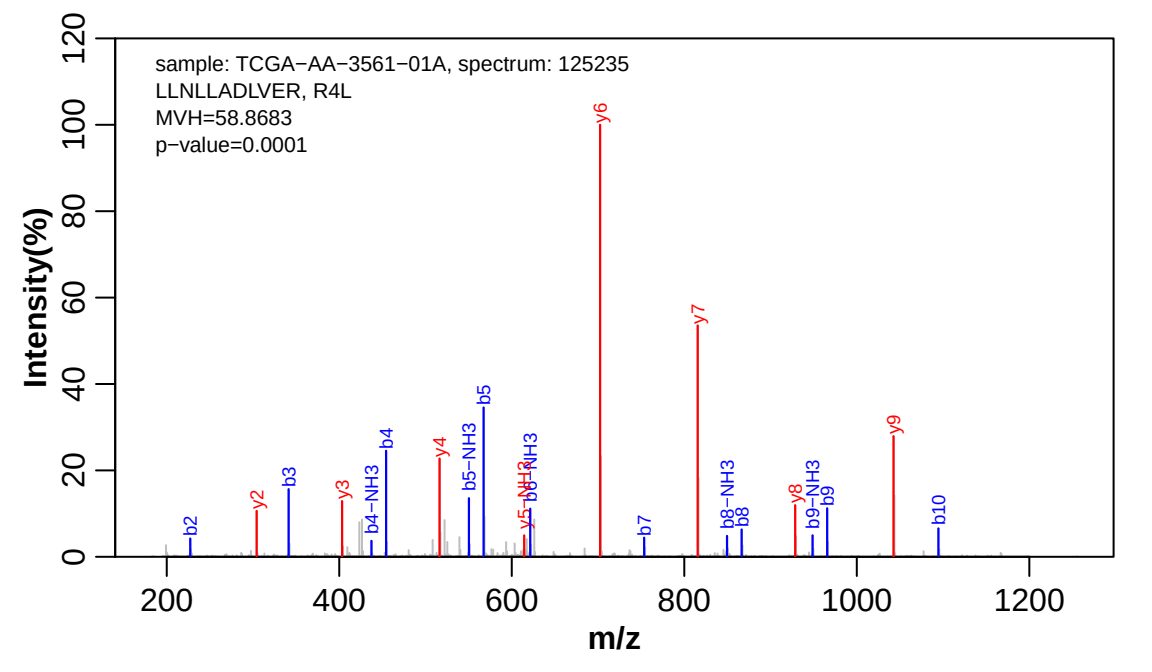

sample: TCGA−AA−3561−01A, spectrum: 121709
KVLLDGVQNLR, P10L
MVH=36.9809
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y4++
b7++−H2O
b7++
y7++y3
y4−NH3
y4
b6
b7−H2O
b7

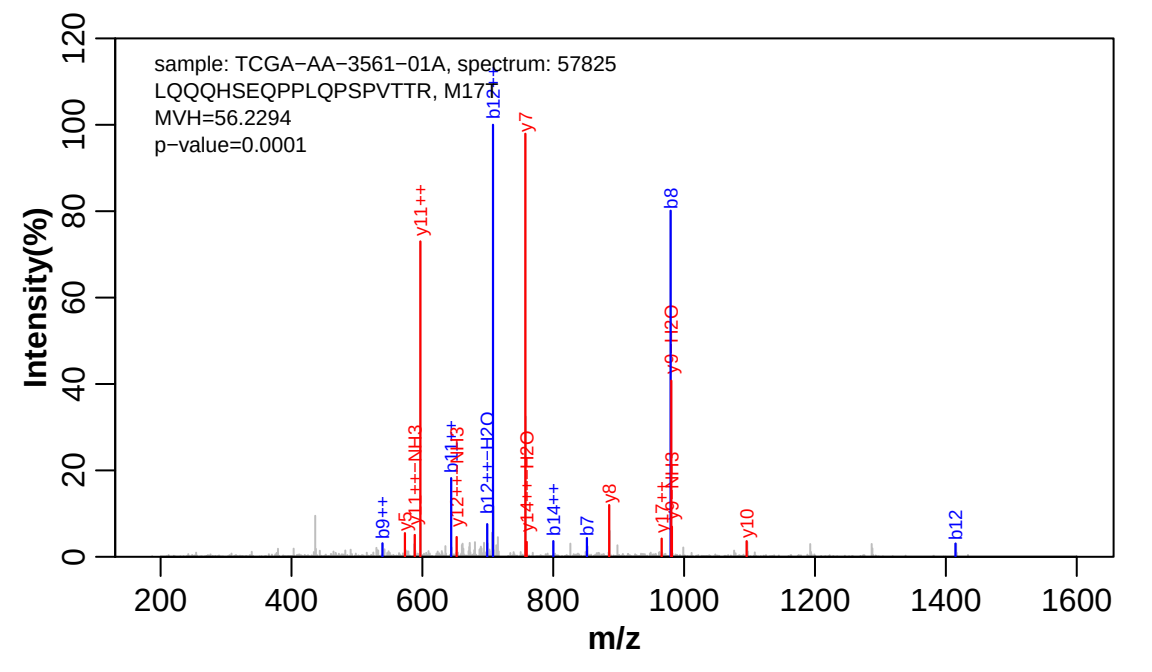

sample: TCGA−AA−3561−01A, spectrum: 75128
LCNNPAPQFGGK, T6A
MVH=52.2221
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y8
y10
b4
b4−NH3
b5−NH3
b6
y4
y5
y7
y9
b8−NH3
b8
b9−NH3
b9
b11
b3
b2
b2−NH3
y6−H2O
y6−NH3

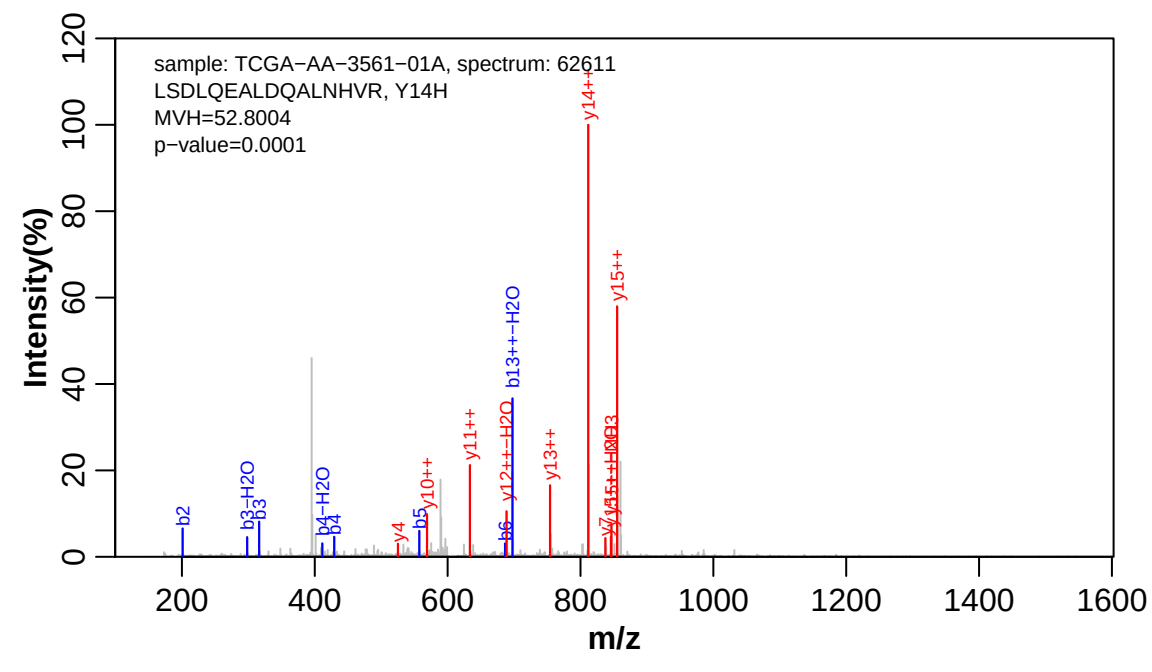

sample: TCGA−AA−3561−01A, spectrum: 94862
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−NH3
b10−H2O
b10
y10

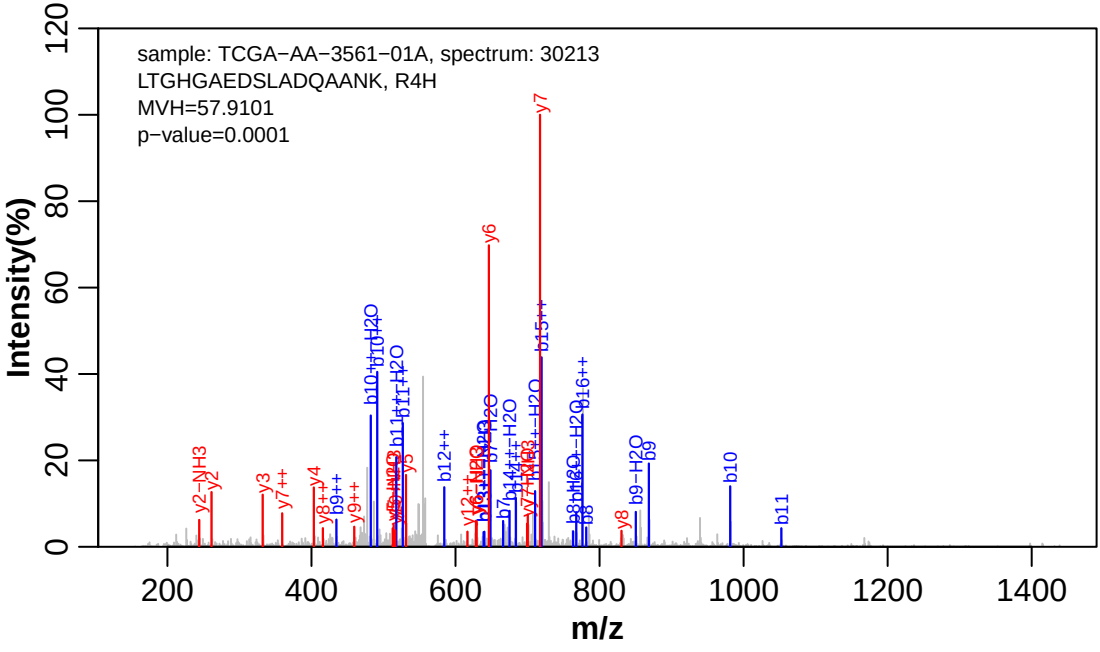

sample: TCGA−AA−3561−01A, spectrum: 123930
LFEEDPAVGALVLTGGDK, T1I
MVH=83.6844
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y6
y7
b10
b11
b12
y14
y15
y16
b13
b14
y5
b4
b5−H2O
b7−NH3
b7
b8−H2O
b9
y12
y4
b3

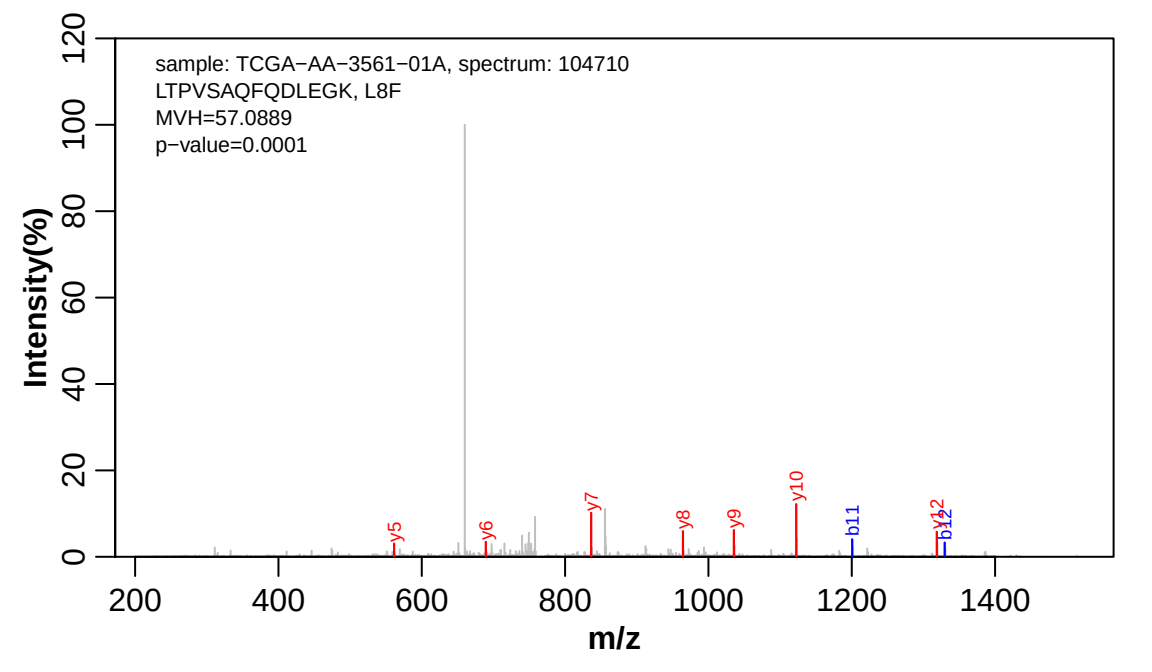

sample: TCGA−AA−3561−01A, spectrum: 43464
LGRPGLGGSSGLAGAWLK, K3R
MVH=61.2436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b8++
y6++−H2O
y7++
b9++−H2O
b10++−H2O
y3++−H2O
y10++−H2O
b12++−H2O
b13++−H2O
y5++−H2O
b5−H2O
b7−H2O
b12++
y5
y6
b12++
b17++
y8
b16++
y15++
b8
y7++−H2O
y9++−H2O
b10
y9
b11

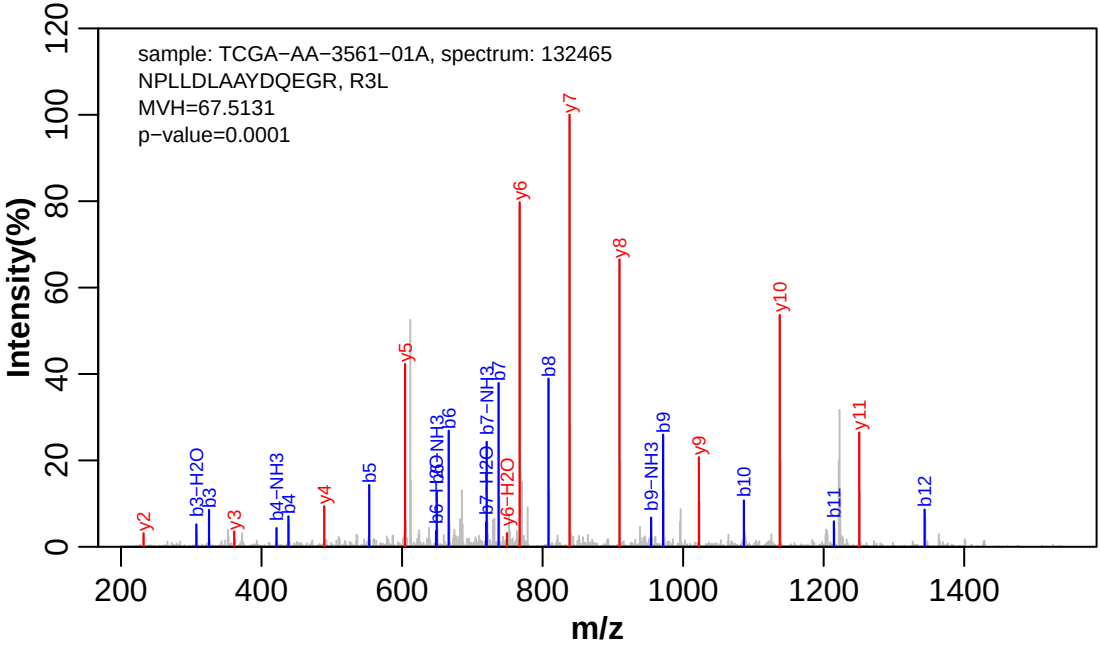

sample: TCGA−AA−3561−01A, spectrum: 125235
LLNLLADLVER, R4L
MVH=58.8683
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

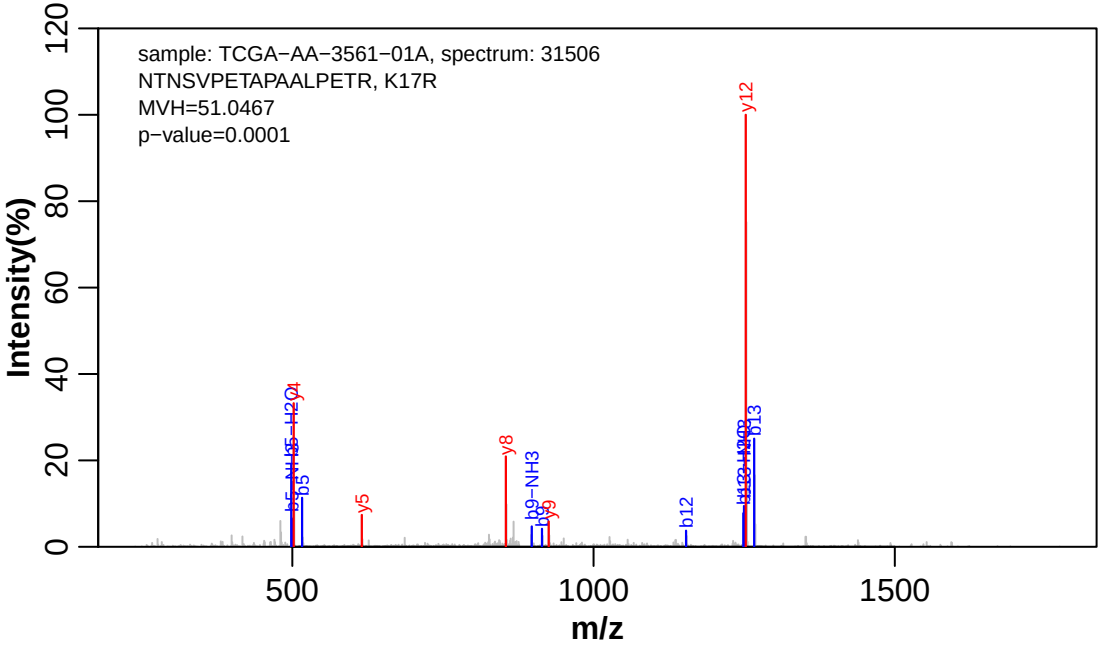

sample: TCGA−AA−3561−01A, spectrum: 57825
LQQQHSEQPPLQPSPVTTR, M17+
MVH=56.2294
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b12++
y7
y11++
b8
y9−H2O
y11++−NH3
y5
b11++
y12++−NH3
b12++−H2O
y14++−H2O
b14++
b7
y8
y17++
y9−NH3
y10
b12
b9++

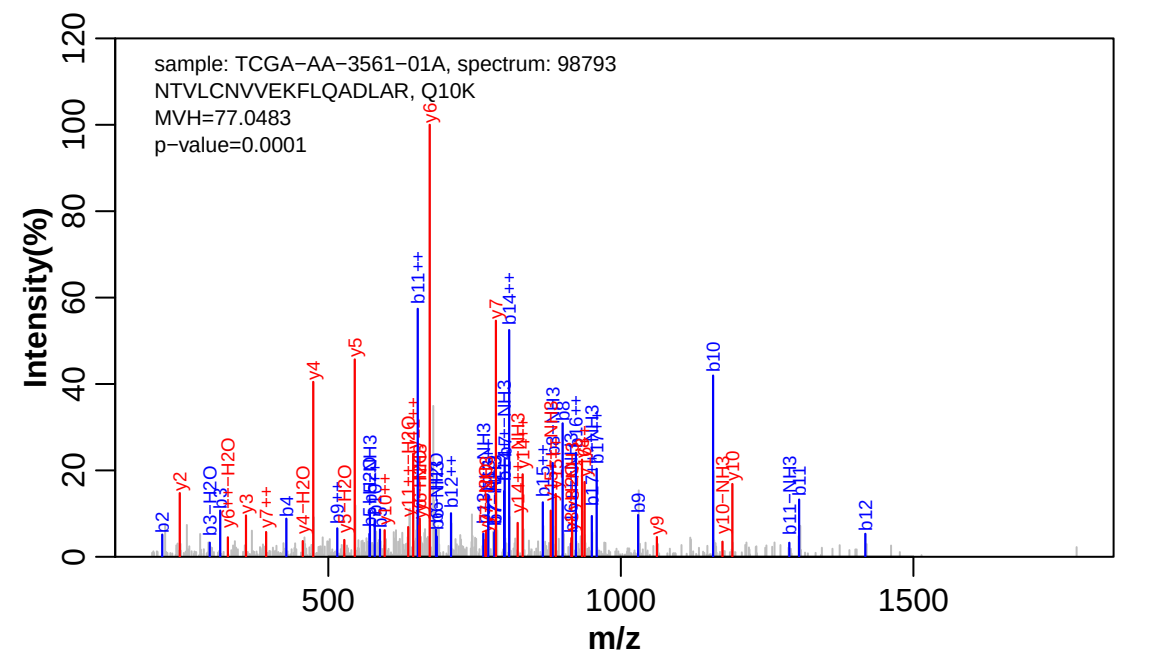

sample: TCGA−AA−3561−01A, spectrum: 62611
LSDLQEALDQALNHVR, Y14H
MVH=52.8004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b3
b4−H2O
b4
y4
b5
y10++
y11++
b6
y12++−H2O
b13++−H2O
y13++
y14++
y15++

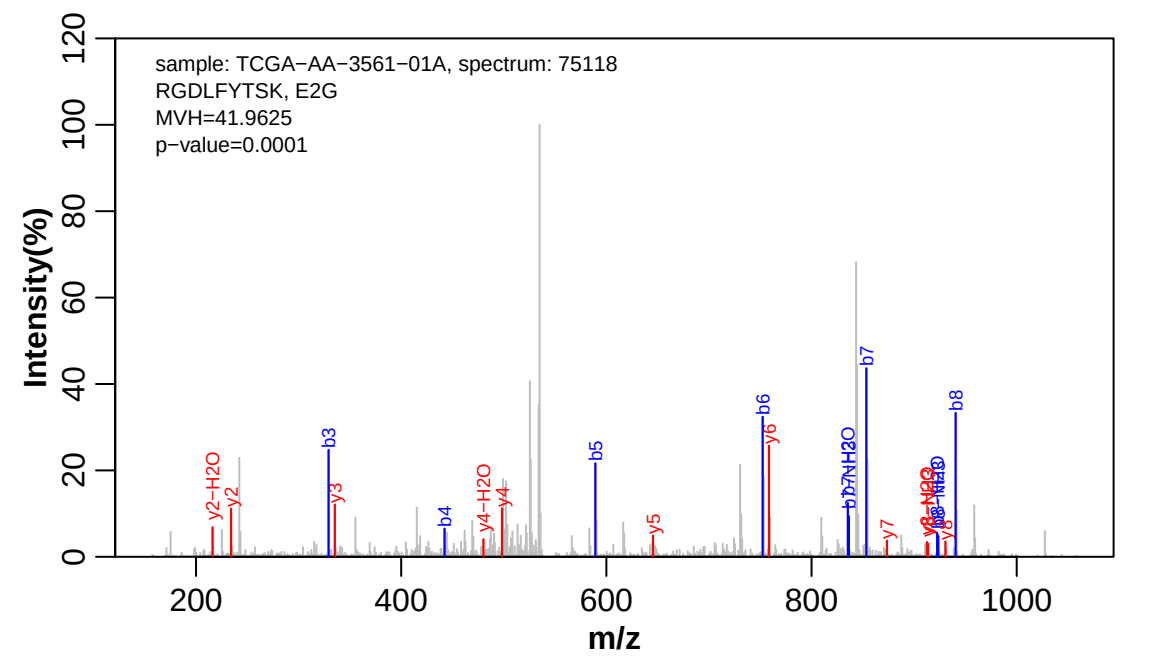

sample: TCGA−AA−3561−01A, spectrum: 30213
LTGHGAEDSLADQAANK, R4H
MVH=57.9101
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
b15++
b10+−H2O
b11+−H2O
b10+−H2O
b16++
y2−NH3
y2
y3
y7++
y4
y8++
b9++
y9++
y5
b12++
b7
b14+−H2O
b9−H2O
b9
b10
b11
y8

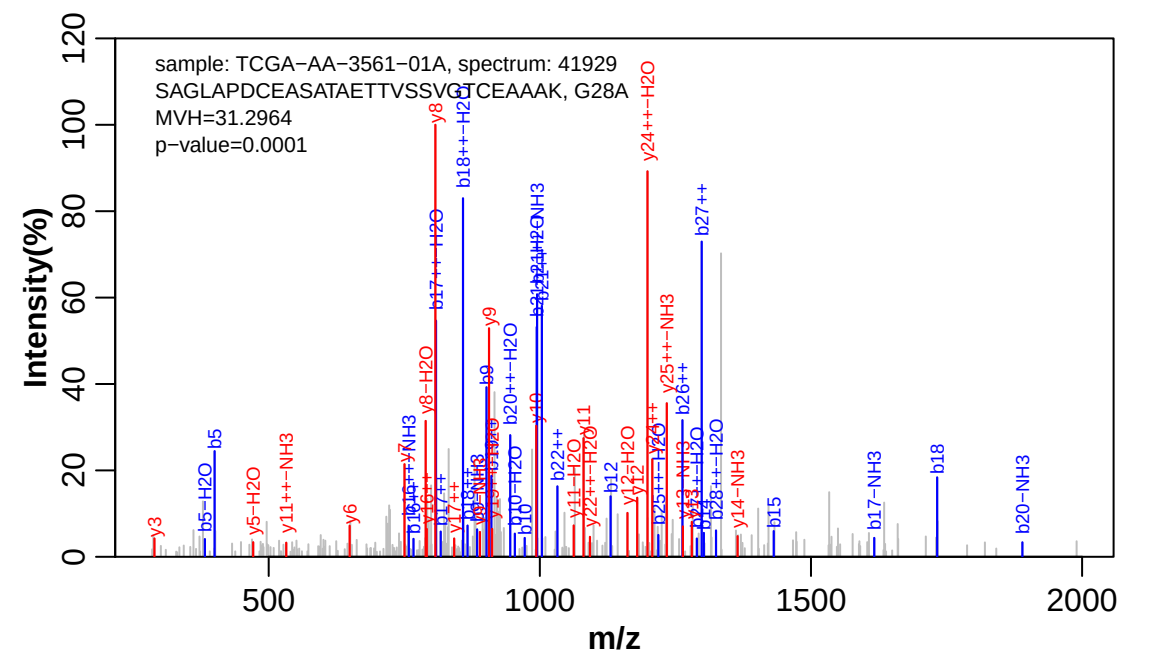

sample: TCGA−AA−3561−01A, spectrum: 104710
LTPVSAQFQDLEGK, L8F
MVH=57.0889
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y5
y6
y7
y8
y9
y10
b11
y12
b12

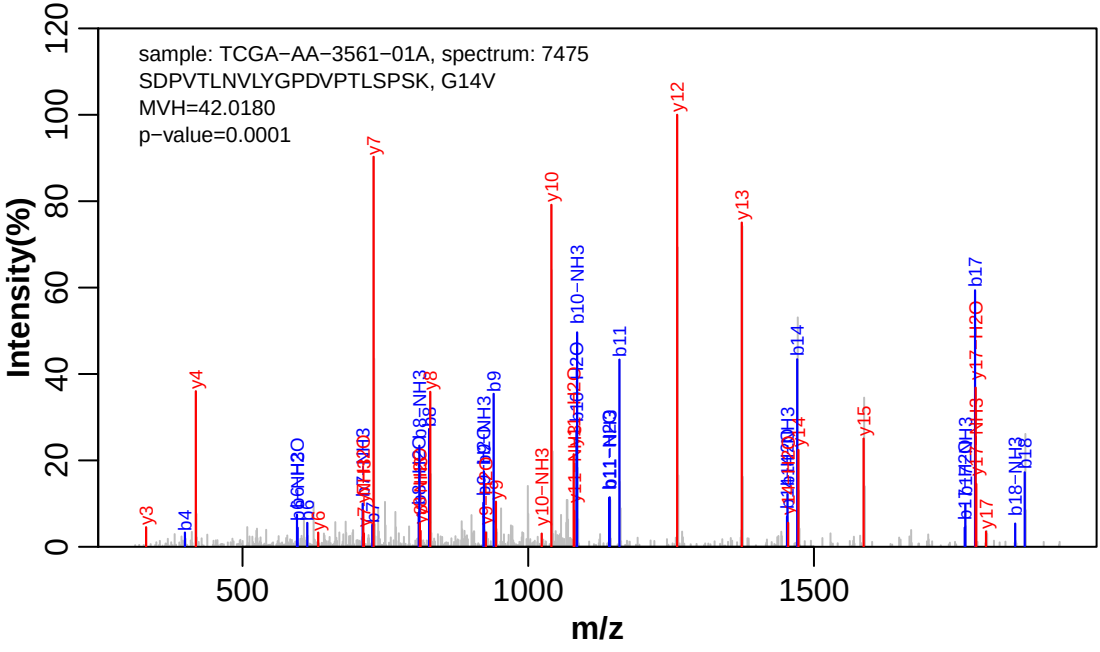

sample: TCGA−AA−3561−01A, spectrum: 132465
NPLLDLAAYDQEGR, R3L
MVH=67.5131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−NH3
b4
y4
b5
y5
b6−H2O
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6−H2O
y6
b8
y7
y8
b9−NH3
b9
y9
b10
y10
b11
y11
b12

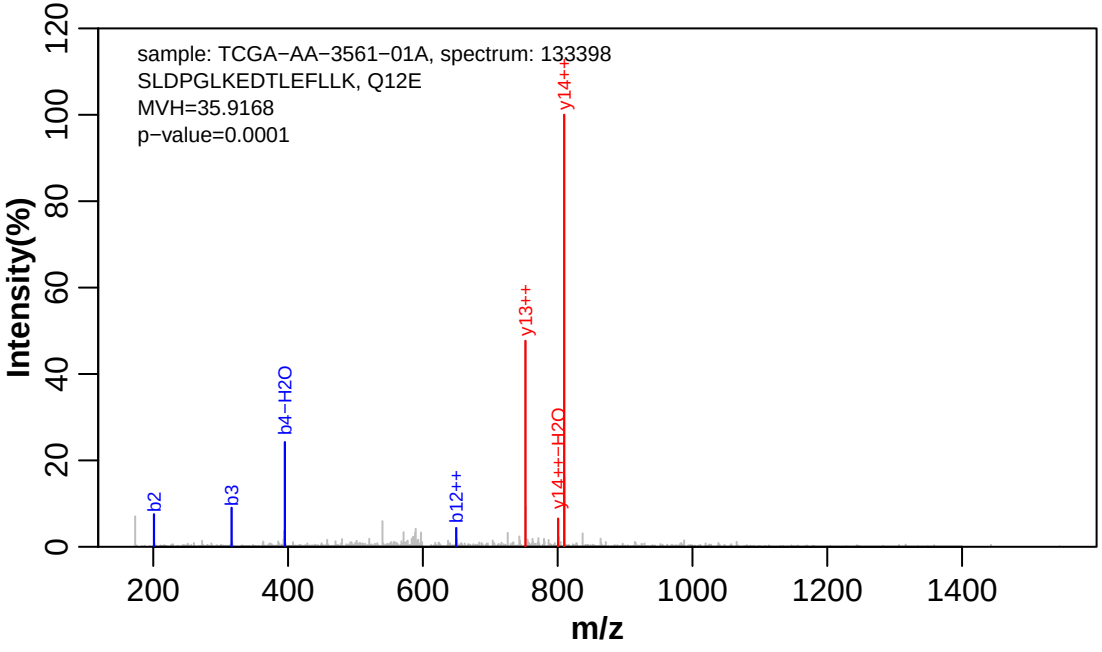

sample: TCGA−AA−3561−01A, spectrum: 31506
NTNSVPETAPAALPETR, K17R
MVH=51.0467
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b5
b12
b13
b9−NH3

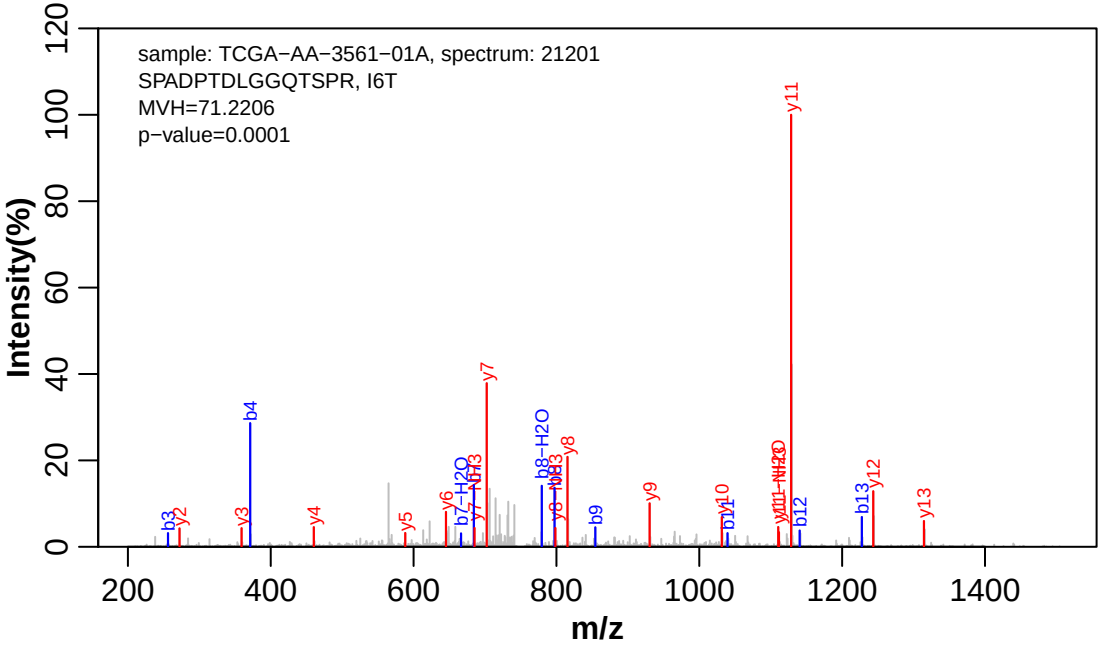

sample: TCGA−AA−3561−01A, spectrum: 98793
NTVLCNVVEKFLQADLAR, Q10K
MVH=77.0483
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
b3−H2O
b3
y6++−H2O
y3
y7++
b4
y4−H2O
y4
b9++
y5−H2O
y5
b11++
y6
b12++
b14++
y7
b10
y10
y10−NH3
b11−NH3
b11
b12
b9
y9

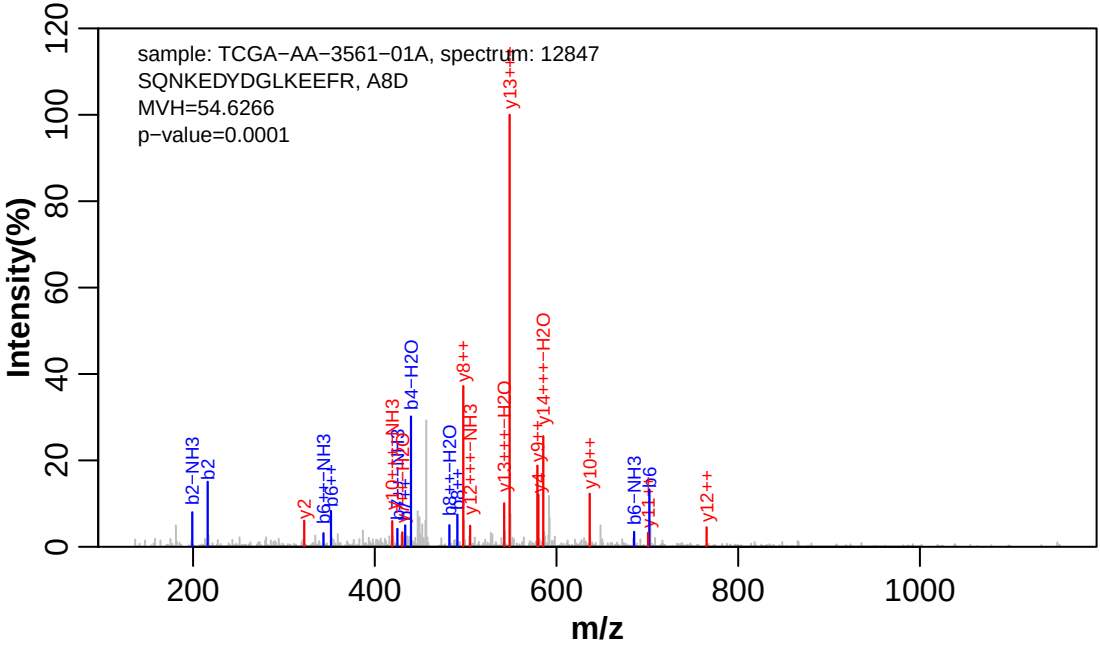

sample: TCGA−AA−3561−01A, spectrum: 75118
RGDLFYTSK, E2G
MVH=41.9625
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2−H2O
y2
b3
y3
b4
y4−H2O
y4
b5
y5
b6
y6
b7−NH3
b7−H2O
b7
y7
b8

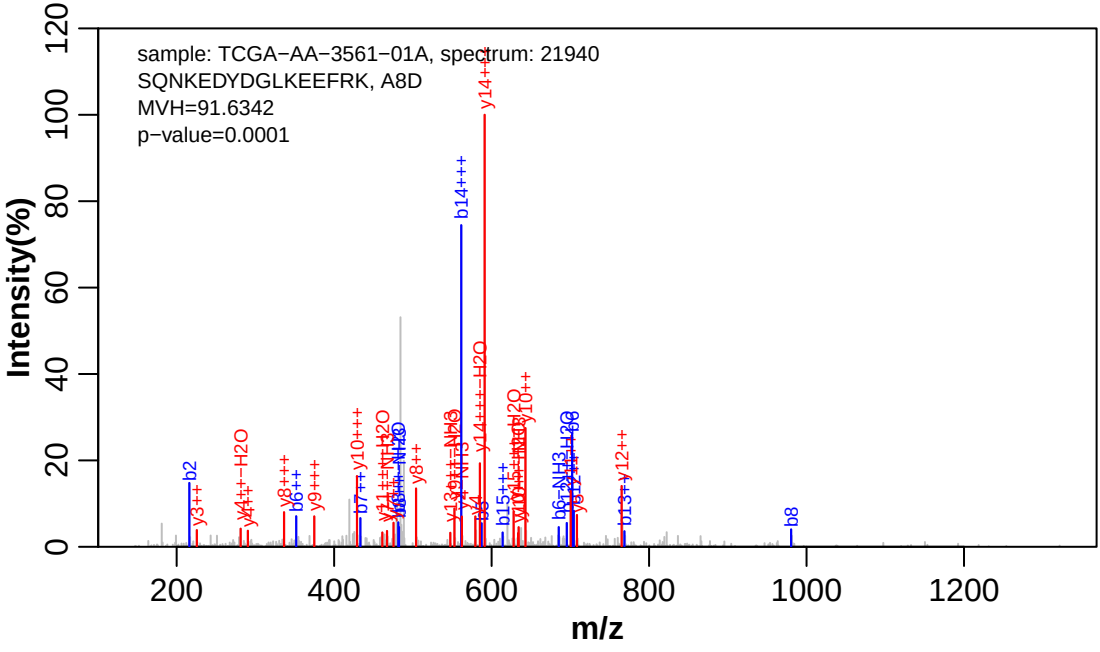

sample: TCGA−AA−3561−01A, spectrum: 41929
SAGLAPDCEASATAETTVSSVGTCEAAAK, G28A
MVH=31.2964
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b5−H2O
b5
y5−H2O
y11++−NH3
y6
y8
b18++−H2O
b17++−H2O
y8−H2O
y9
b9
b20++−H2O
b10−H2O
y10
b22++
y11−H2O
y11
y22++−H2O
b12
y12−H2O
y12
y24++−H2O
y25++−NH3
b26++
b27++
b28++−H2O
y14−NH3
b15
b17−NH3
b18
b20−NH3

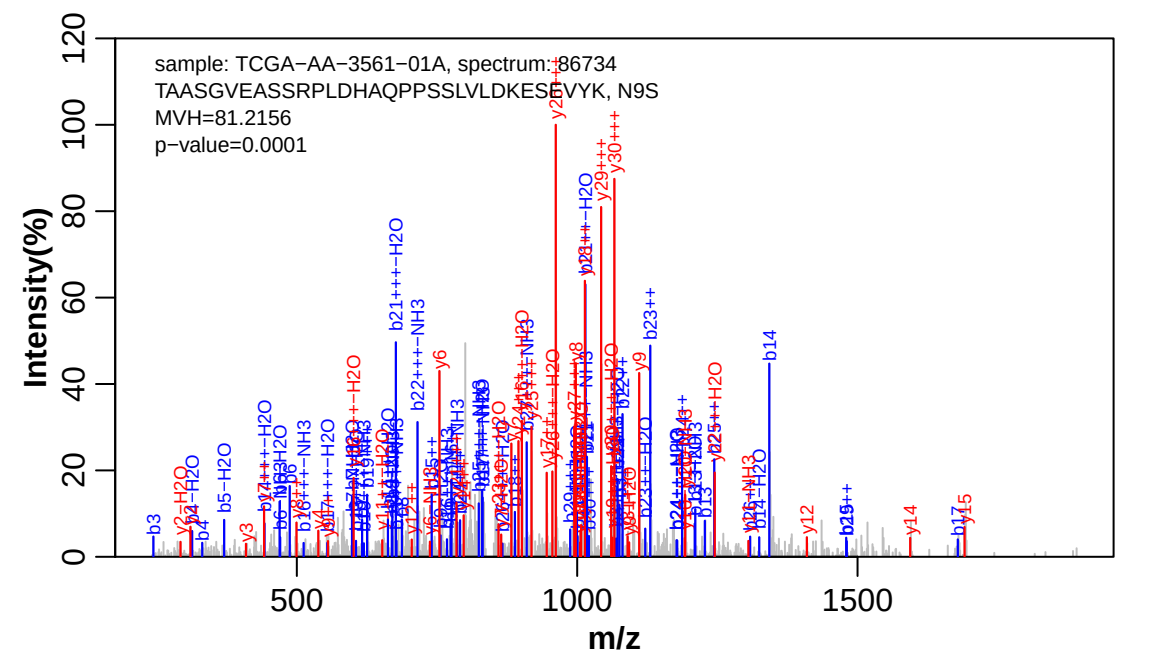

sample: TCGA−AA−3561−01A, spectrum: 7475
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=42.0180
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y7
y10
y13
y4
b10−NH3
b11
b14
y15
b17
y3
b4
y6
y8
b9
y10−NH3
b18−NH3
b18

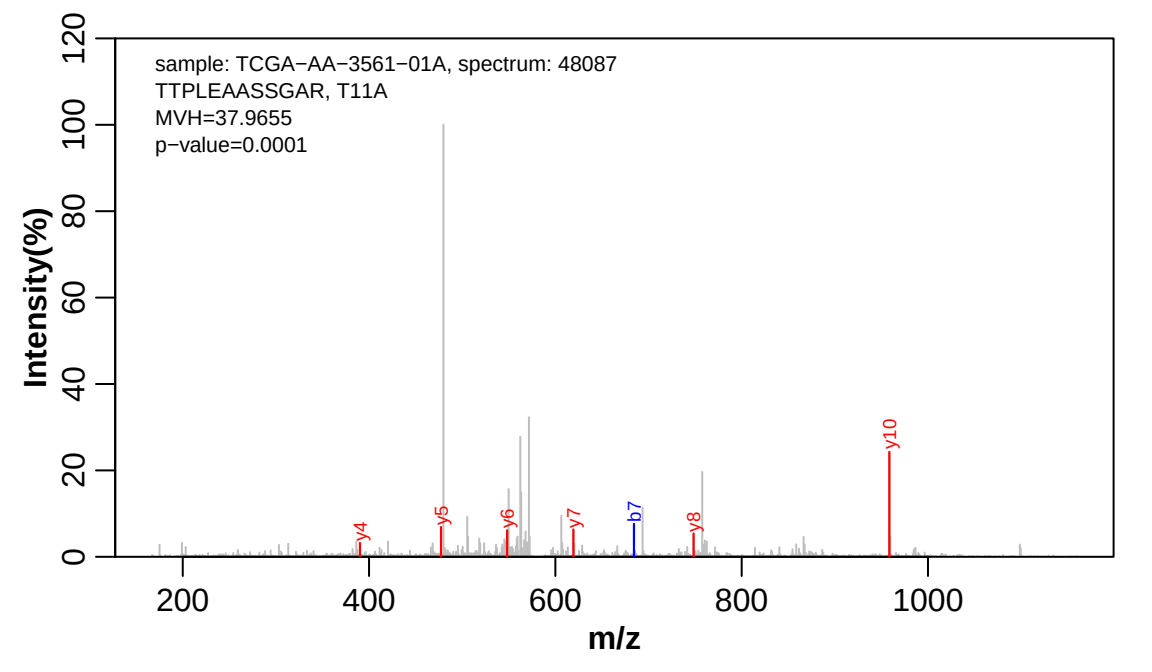

sample: TCGA−AA−3561−01A, spectrum: 133398
SLDPGLKEDTLEFLLK, Q12E
MVH=35.9168
p−value=0.0001
y14++
y13++
b4−H2O
y14++−H2O
b2
b3
b12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

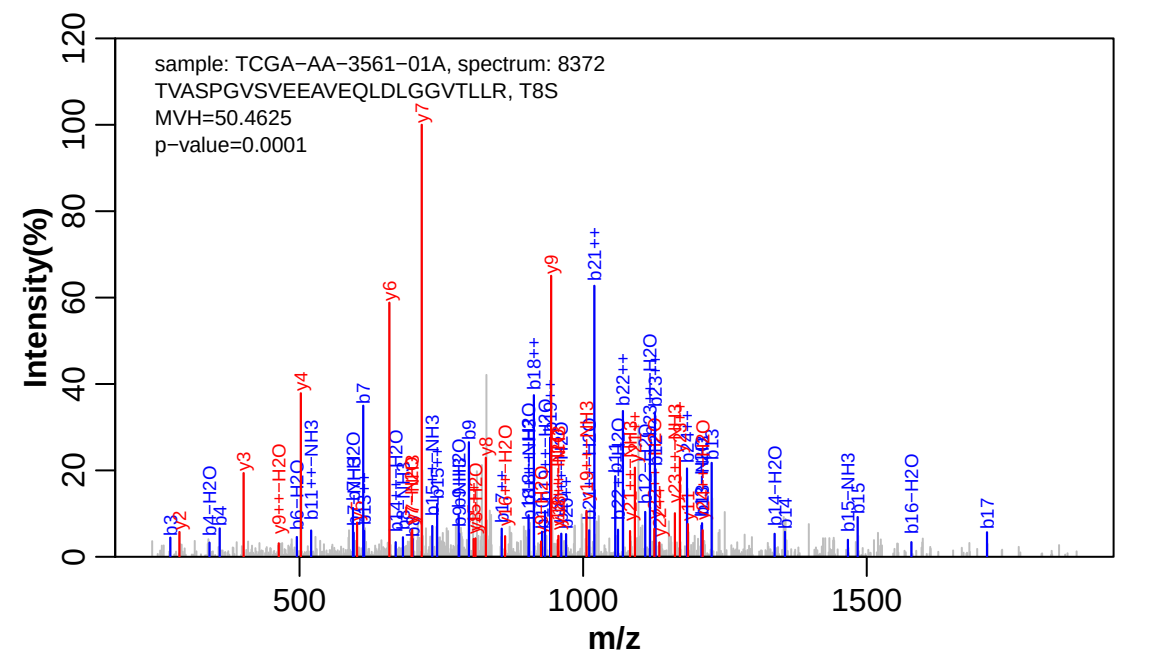

sample: TCGA−AA−3561−01A, spectrum: 21201
SPADPTDLGGQTSPR, I6T
MVH=71.2206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
b7−H2O
y7−NH3
y7
b8−H2O
y8
y9
b9
b10
y10
y11−NH3
y11
b12
b13
y12
y13

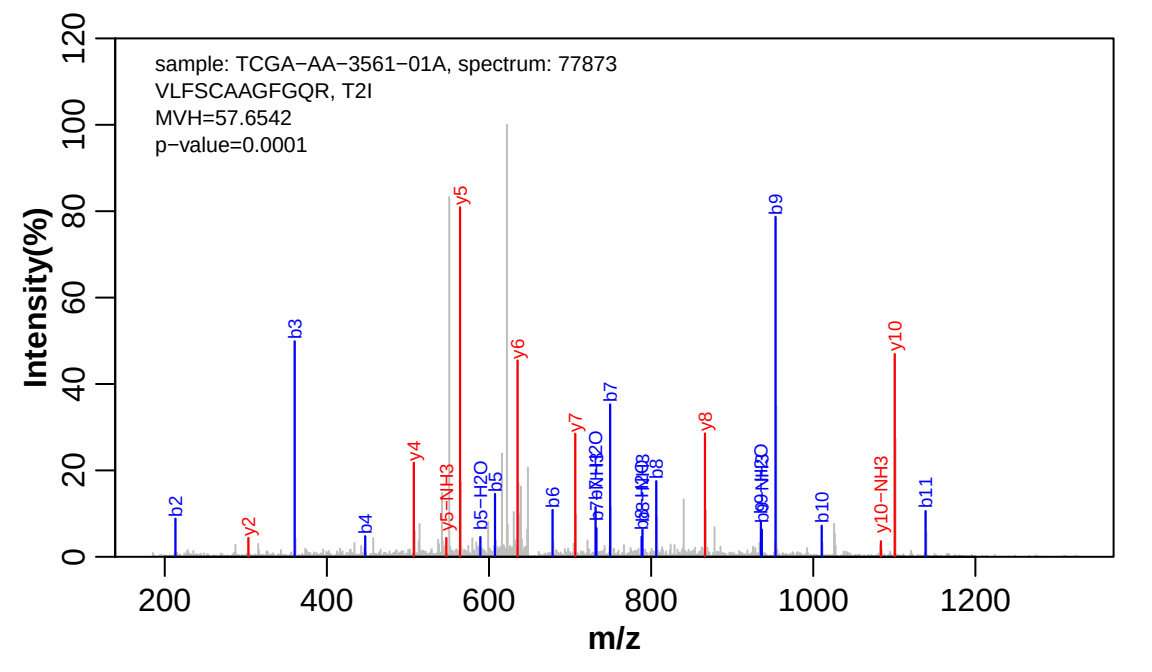

sample: TCGA−AA−3561−01A, spectrum: 12847
SQNKEDYDGLKEEFR, A8D
MVH=54.6266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y13++
b4−H2O
y8++
y14+++−H2O
b2−NH3
b2
y2
y13+++−H2O
y12+++−NH3
y10++
b6−NH3
y11++b6
y12++

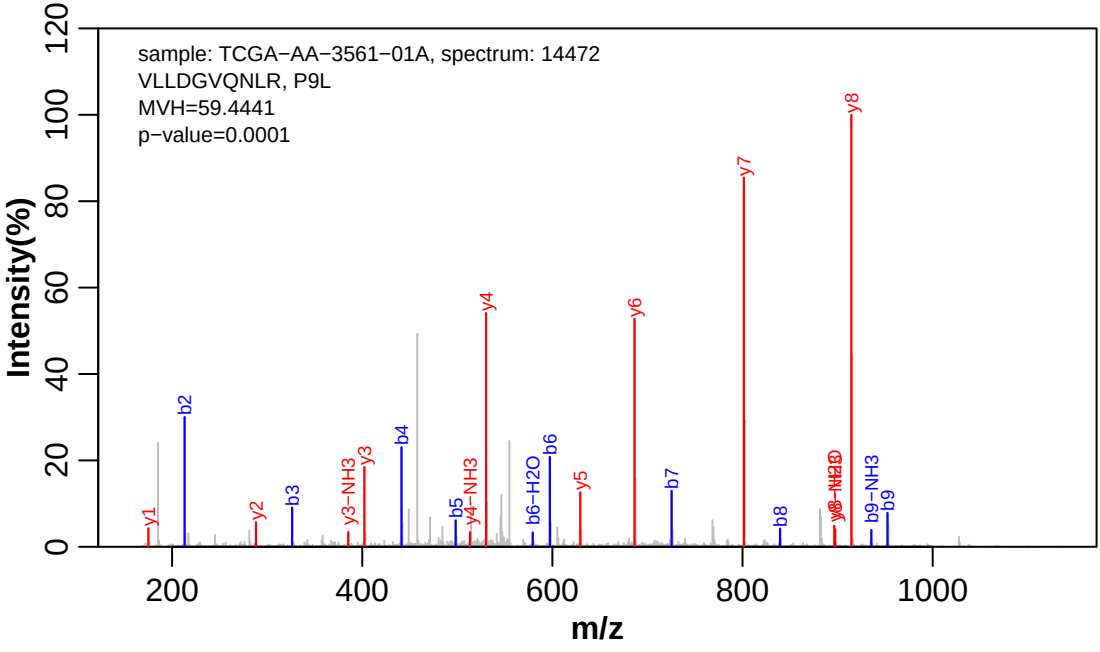

sample: TCGA−AA−3561−01A, spectrum: 21940
SQNKEDYDGLKEEFRK, A8D
MVH=91.6342
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3++
y4++−H2O
y4++
b6++
y8+++
y9+++
b7++
y10+++
y8++
b14+++
y14++
y14+++−H2O
b15++
y10++
b8

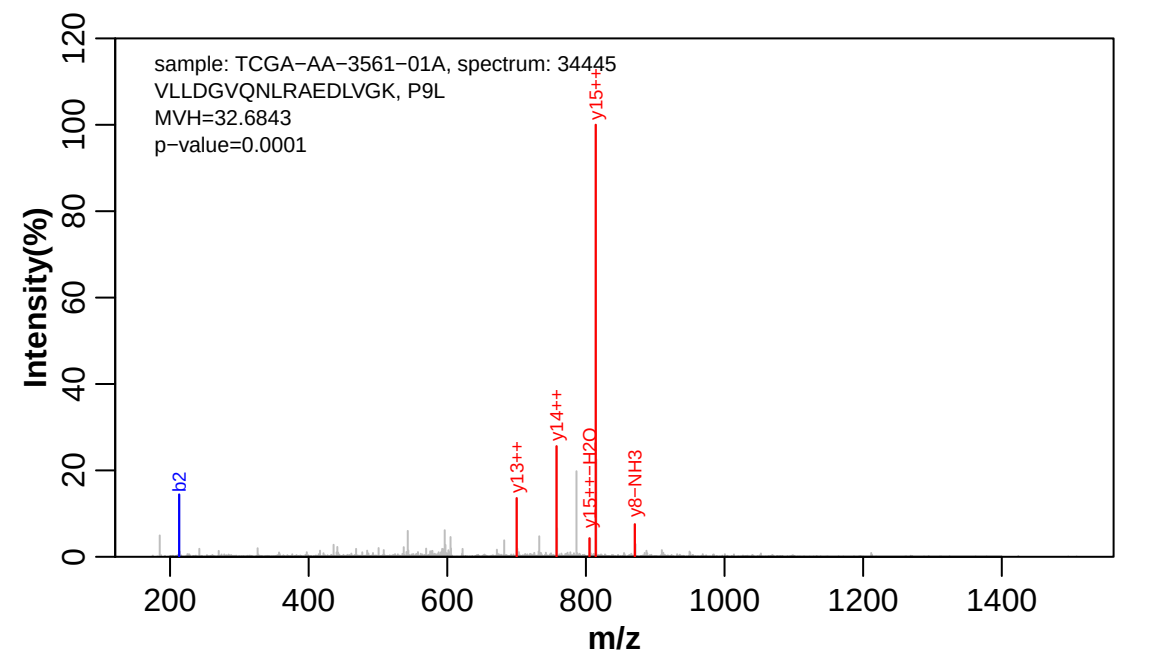

sample: TCGA−AA−3561−01A, spectrum: 86734
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=81.2156
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

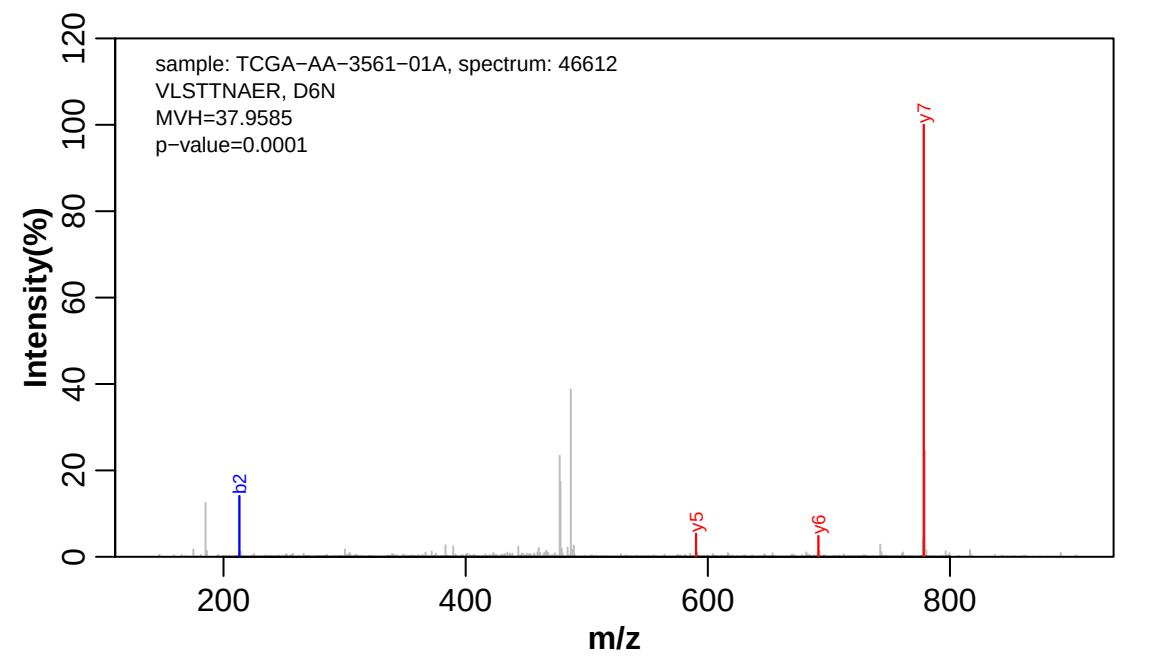

sample: TCGA−AA−3561−01A, spectrum: 48087
TTPLEAASSGAR, T11A
MVH=37.9655
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y4
y5
y6
y7
b7
y8
y10

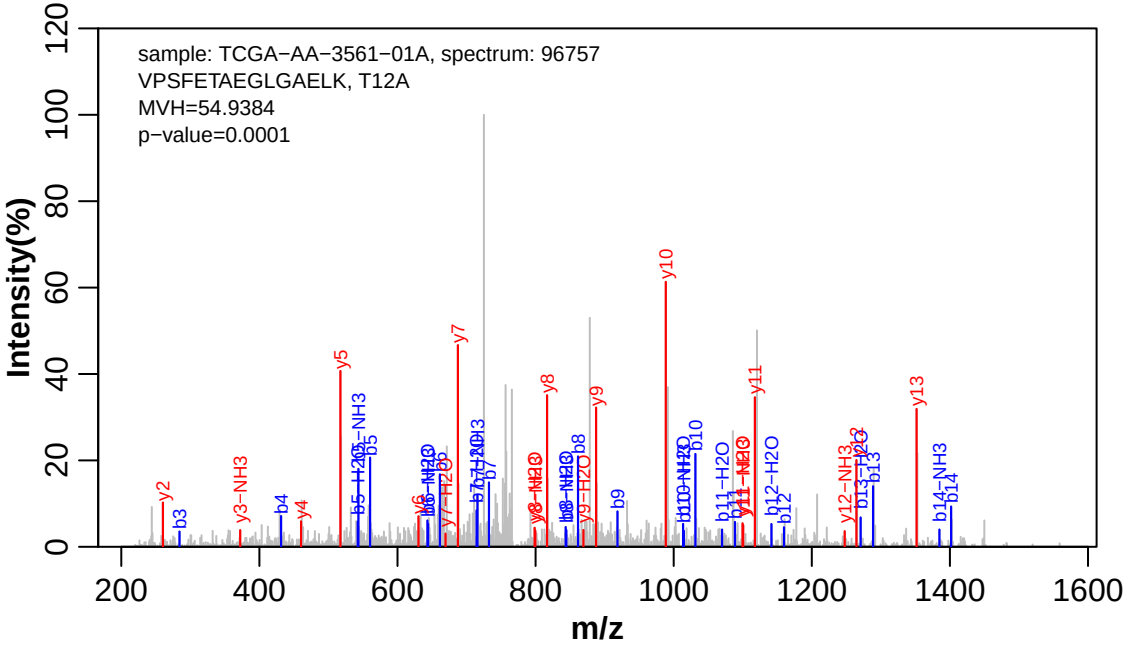

sample: TCGA−AA−3561−01A, spectrum: 8372
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=50.4625
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y6
y9
y4
y3
b21++
b18++
b7
b2
y2
b4−H2O
b14−H2O
b15−NH3
b16−H2O
b17

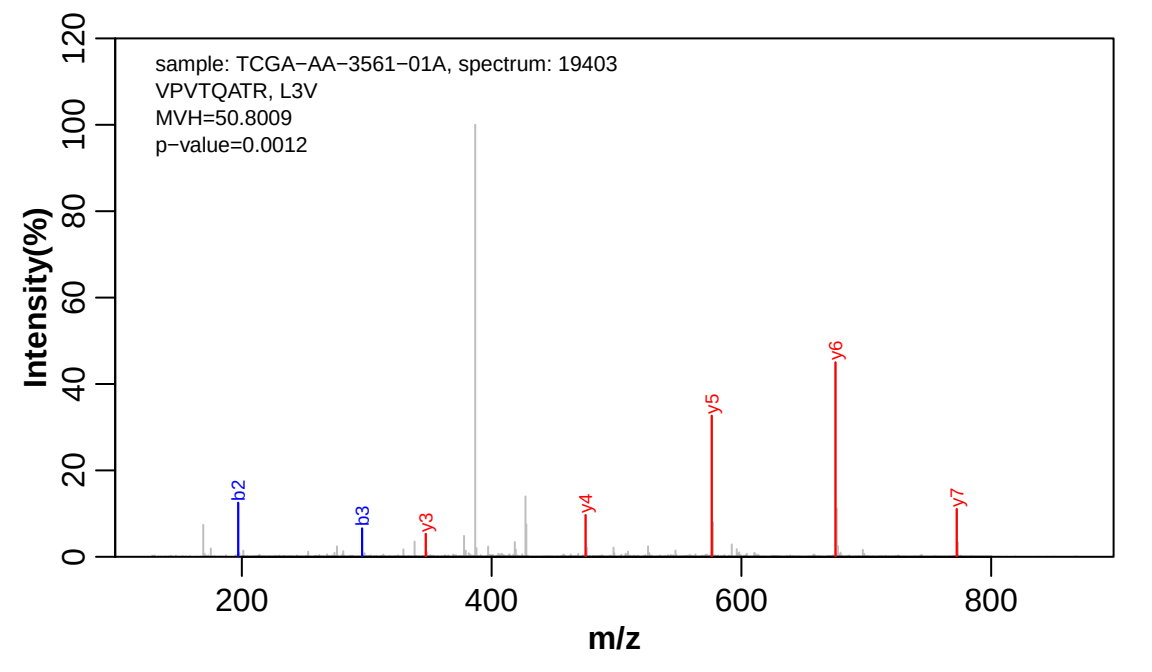

sample: TCGA−AA−3561−01A, spectrum: 77873
VLFSCAAGFGQR, T2I
MVH=57.6542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
b4
y4
y5−NH3
y5
b5−H2O
b5
b6
y6
y7
b7
b8
y8
b9
b10
y10−NH3
y10
b11

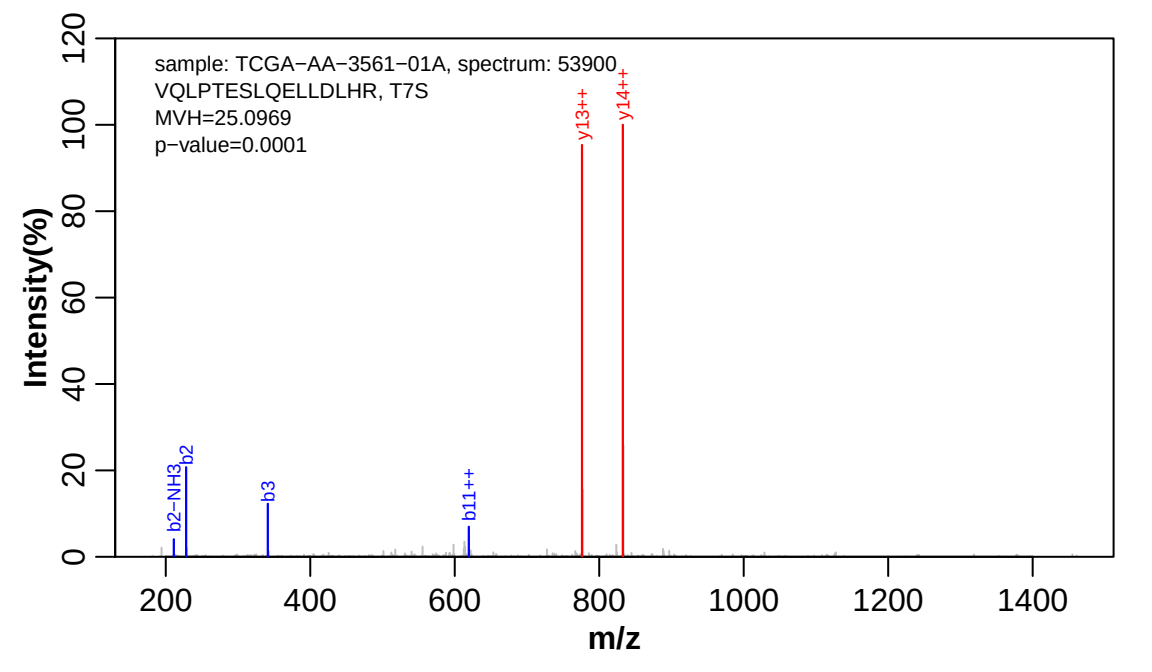

sample: TCGA−AA−3561−01A, spectrum: 14472
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4−NH3
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9−NH3
b9

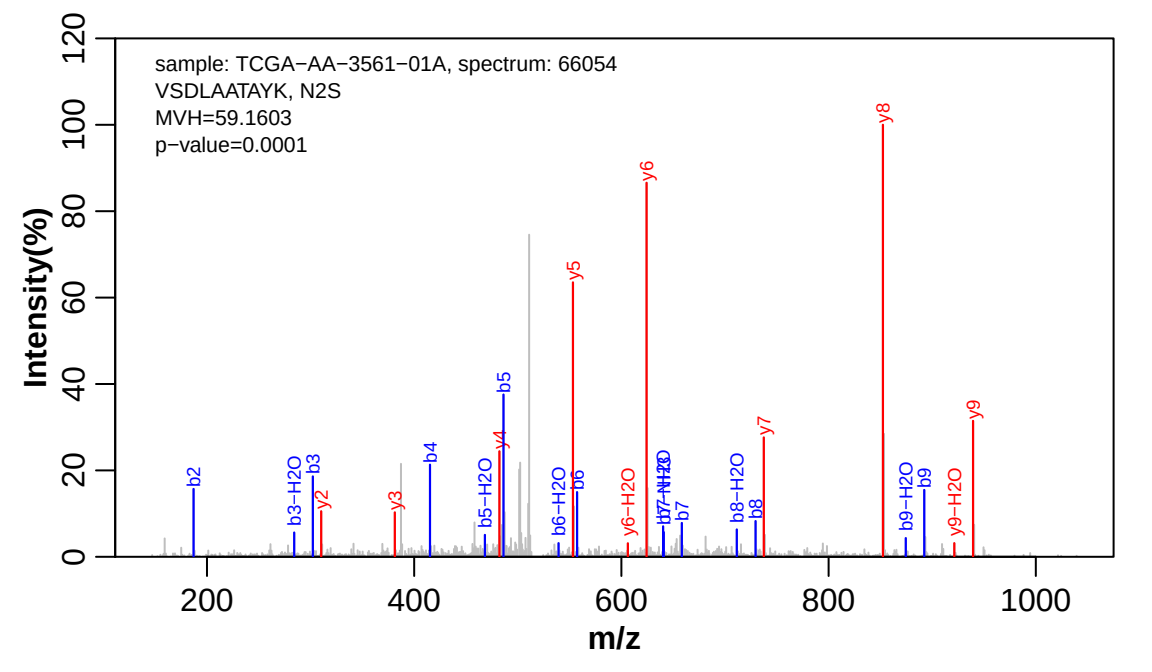

sample: TCGA−AA−3561−01A, spectrum: 34445
VLLDGVQNLRAEDLVGK, P9L
MVH=32.6843
p−value=0.0001
Intensity(%)
m/z
b2
y13++
y14++
y15++−H2O
y15++
y8−NH3

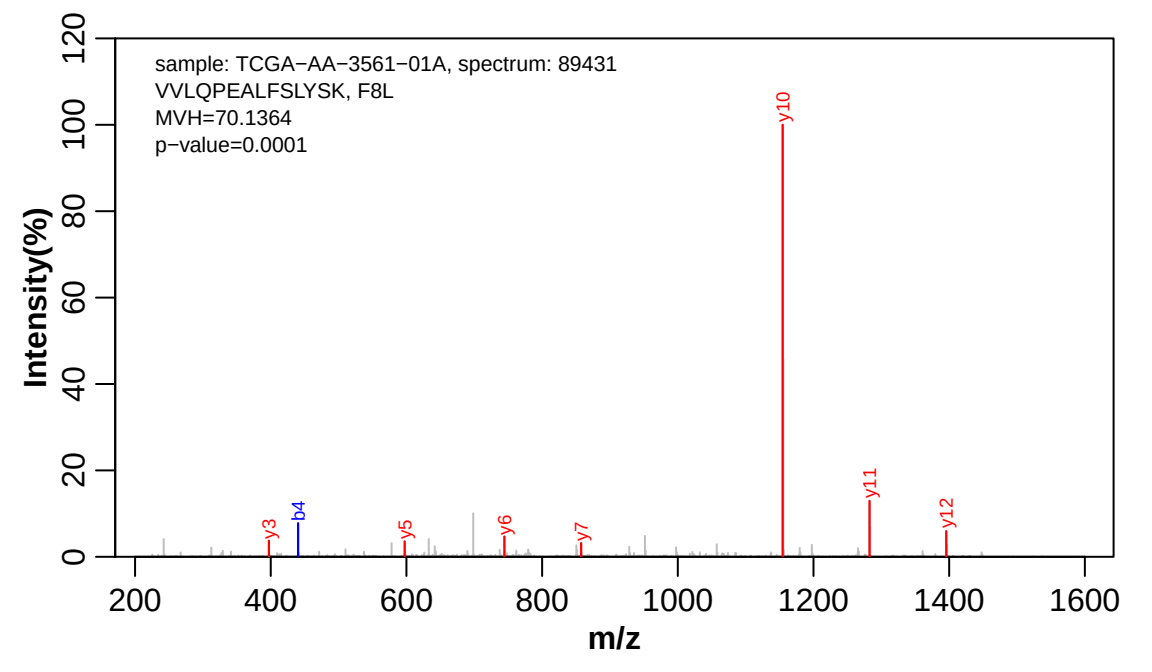

sample: TCGA−AA−3561−01A, spectrum: 46612
VLSTTNAER, D6N
MVH=37.9585
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y5
y6
y7

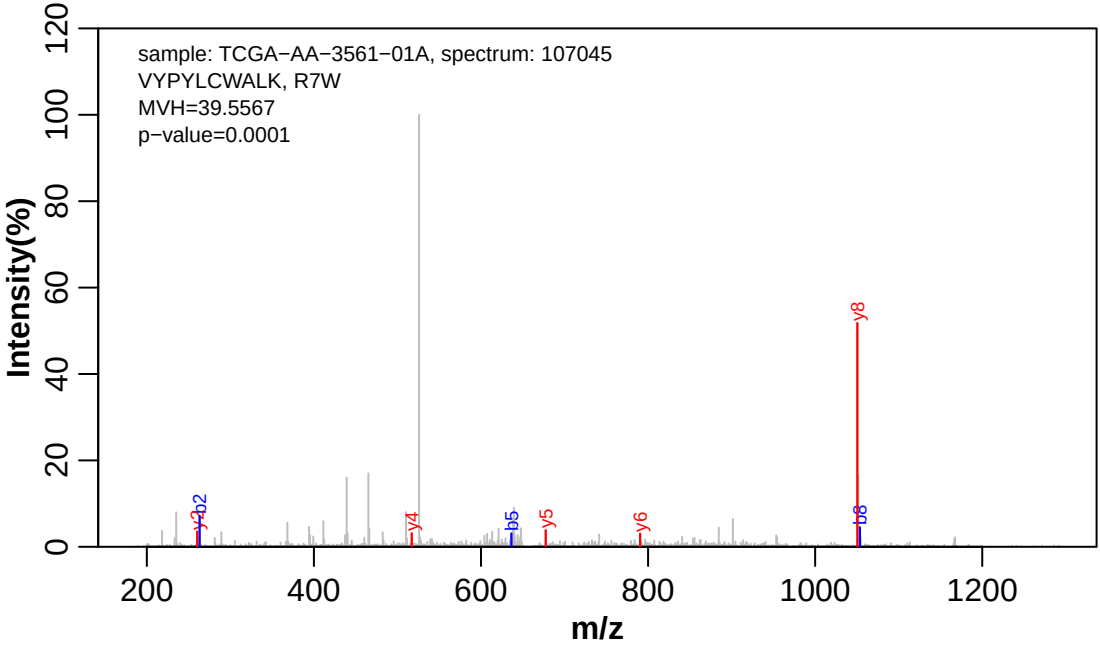

sample: TCGA−AA−3561−01A, spectrum: 96757
VPSFETAEGLGAELK, T12A
MVH=54.9384
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3−NH3
b4
y4
y5
b5−H2O
b5−NH3
b5
y6
y7
y7−H2O
b7
y8
b8
y9
y9−H2O
b9
y10
b10
b10−H2O
b11−H2O
y11
b12−H2O
b12
y12−NH3
b13
y13
b14−NH3
b14

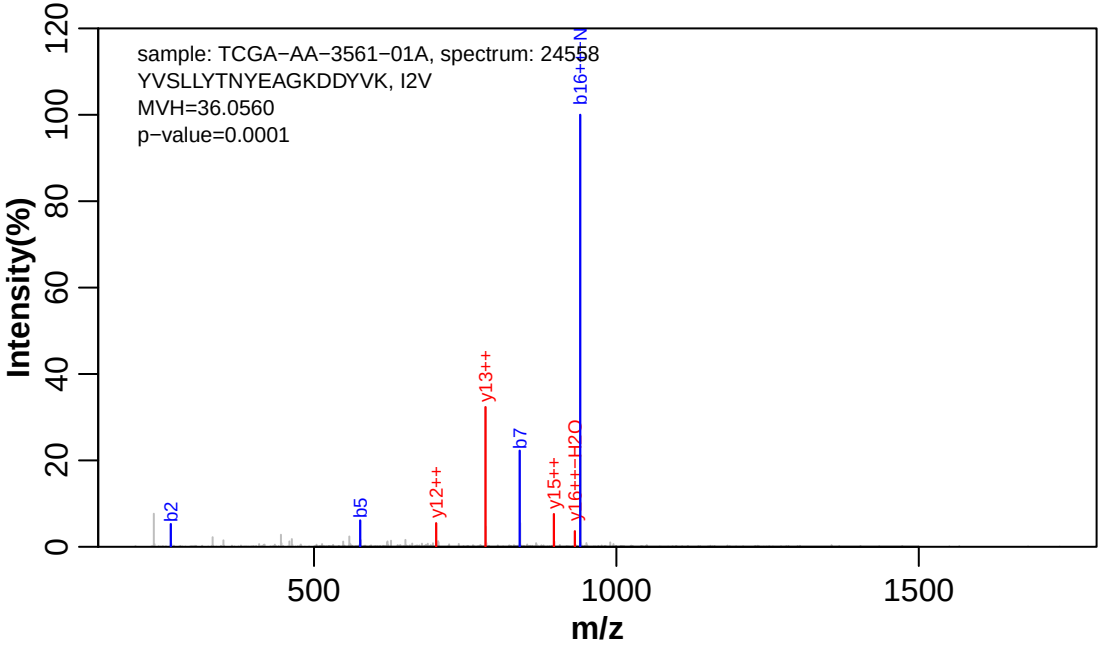

sample: TCGA−AA−3561−01A, spectrum: 19403
VPVTQATR, L3V
MVH=50.8009
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

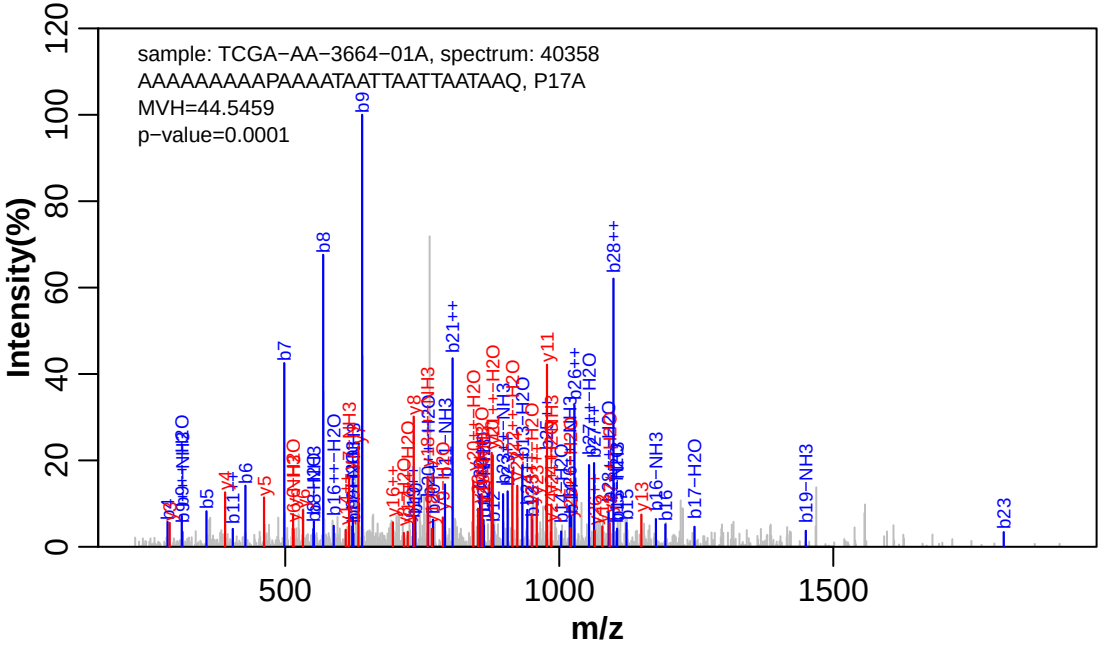

sample: TCGA−AA−3561−01A, spectrum: 53900
VQLPTESLQELLDLHR, T7S
MVH=25.0969
p−value=0.0001
y13++
y14++
b2−NH3
b2
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

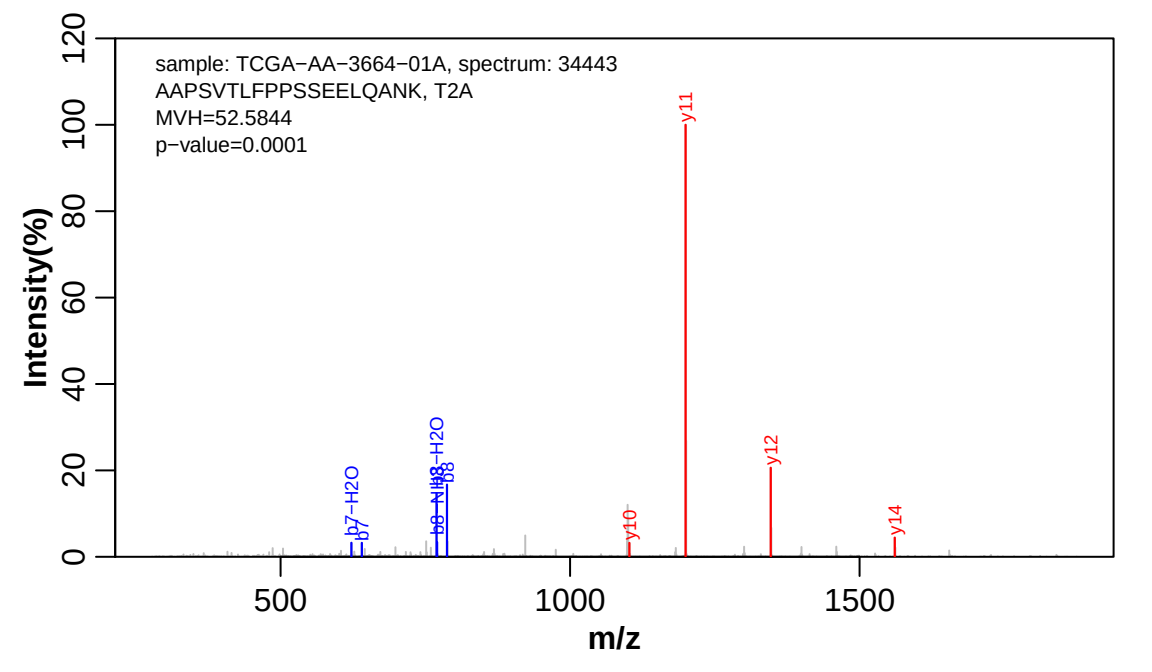

sample: TCGA−AA−3561−01A, spectrum: 66054
VSDLAATAYK, N2S
MVH=59.1603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−H2O
y4
b5
b6−H2O
y5
b6
y6−H2O
y6
b7−H2O
b7
b8−H2O
b8
y7
y8
b9−H2O
b9
y9−H2O
y9

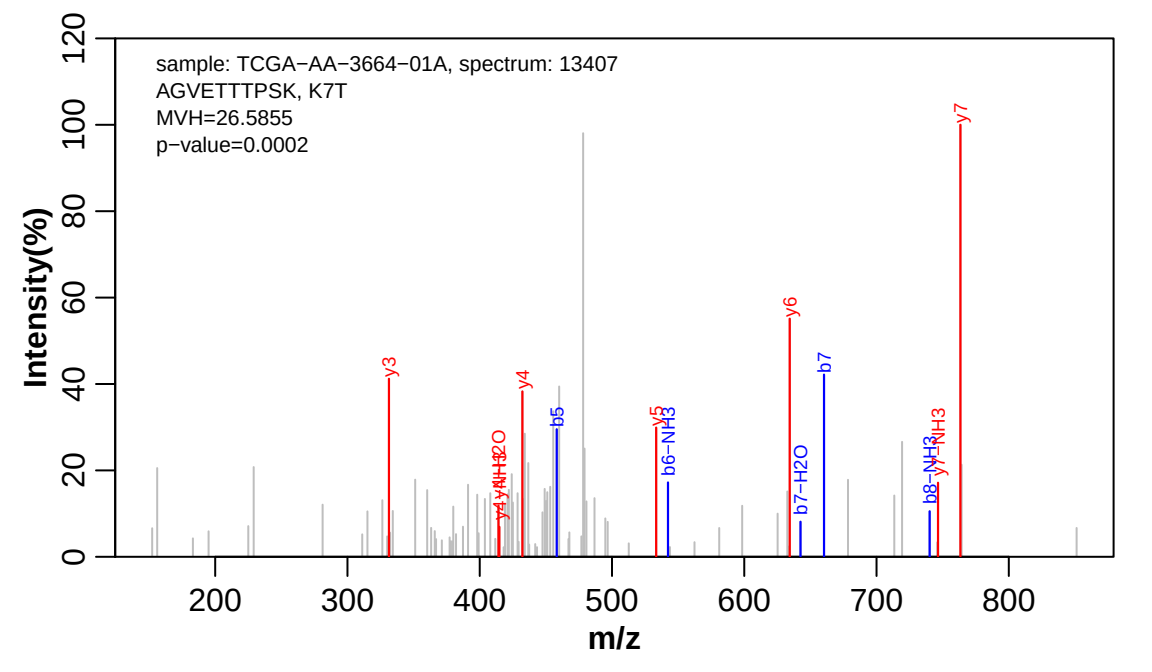

sample: TCGA−AA−3561−01A, spectrum: 89431
VVLQPEALFSLYSK, F8L
MVH=70.1364
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
y5
y6
y7
y10
y11
y12

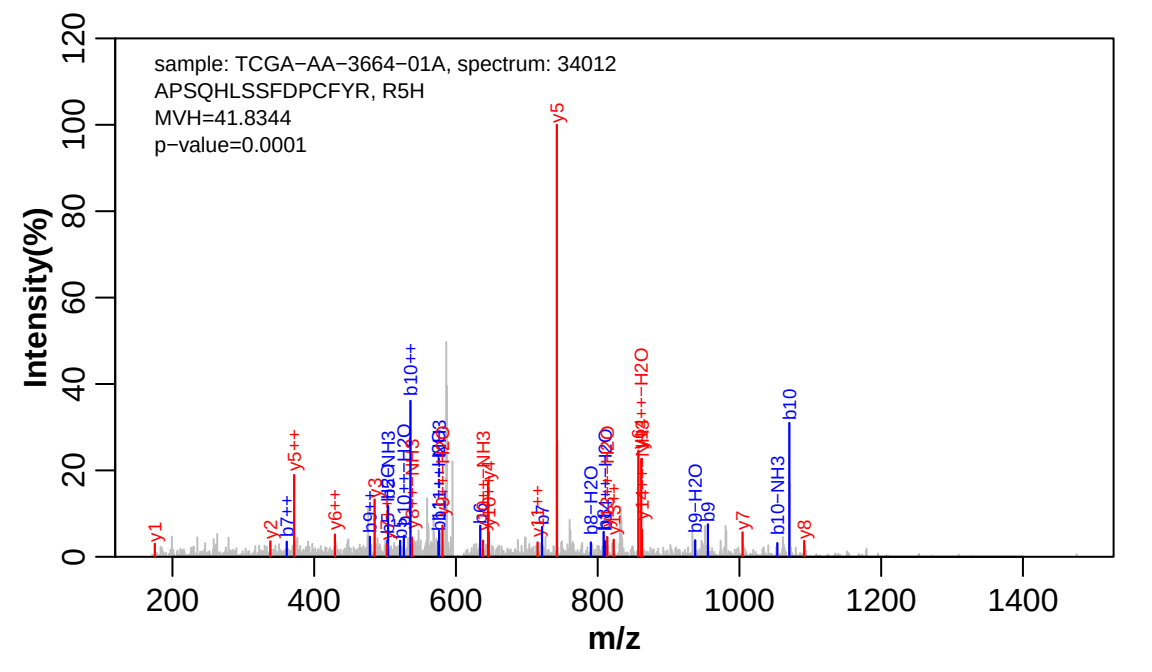

sample: TCGA−AA−3561−01A, spectrum: 107045
VYPYLCWALK, R7W
MVH=39.5567
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y8
b6
y4
b5
y5
y6
y2
b2

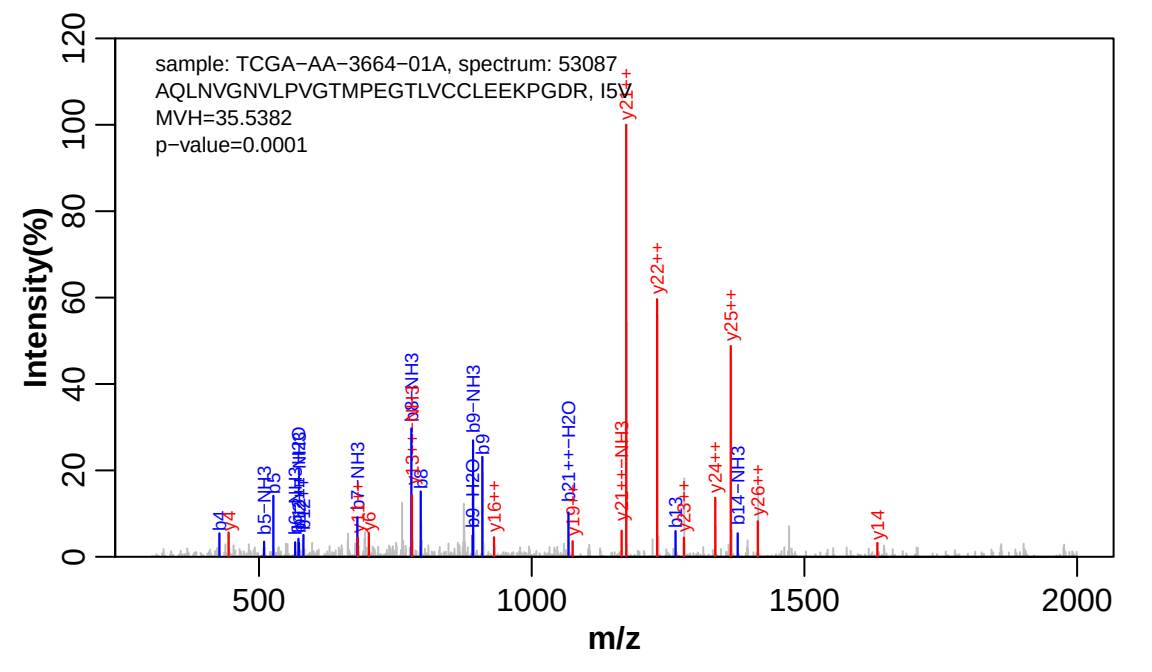

sample: TCGA−AA−3561−01A, spectrum: 24558
YVSLLYTNYEAGKDDYVK, I2V
MVH=36.0560
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b5
y12++
y13++
b7
y15++
y16++−H2O
b16+−N

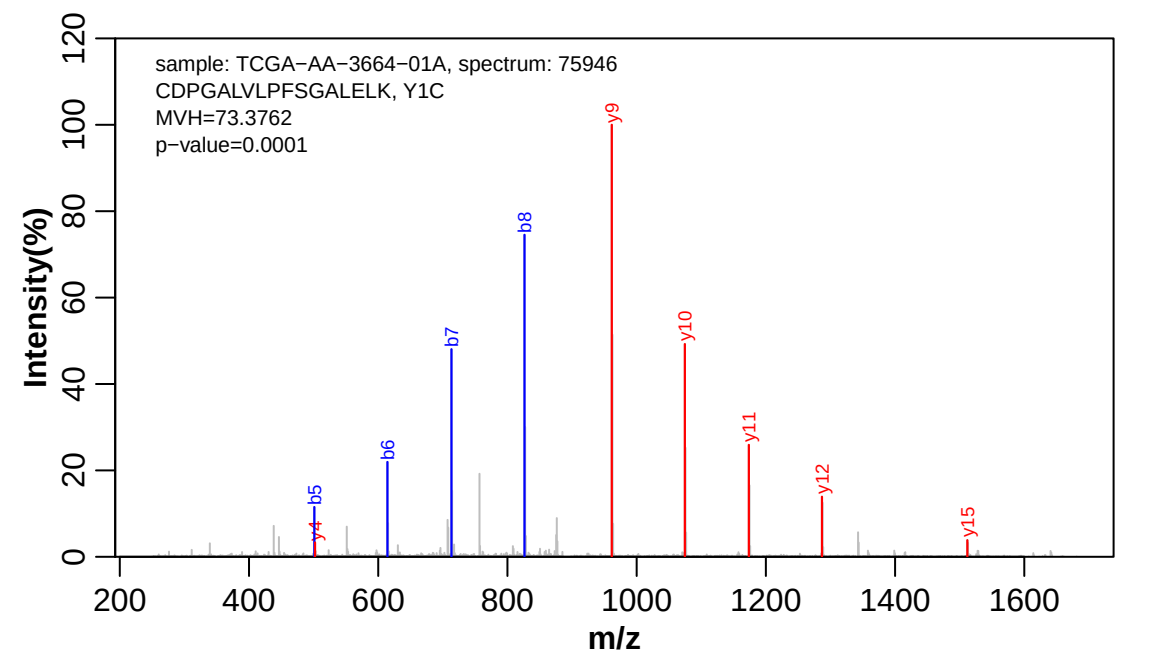

sample: TCGA−AA−3664−01A, spectrum: 40358
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=44.5459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b8
b7
b28++
b21++
b23
b19−NH3
b17−H2O
b16−NH3
y11
y8
y5
b6
b5
b4

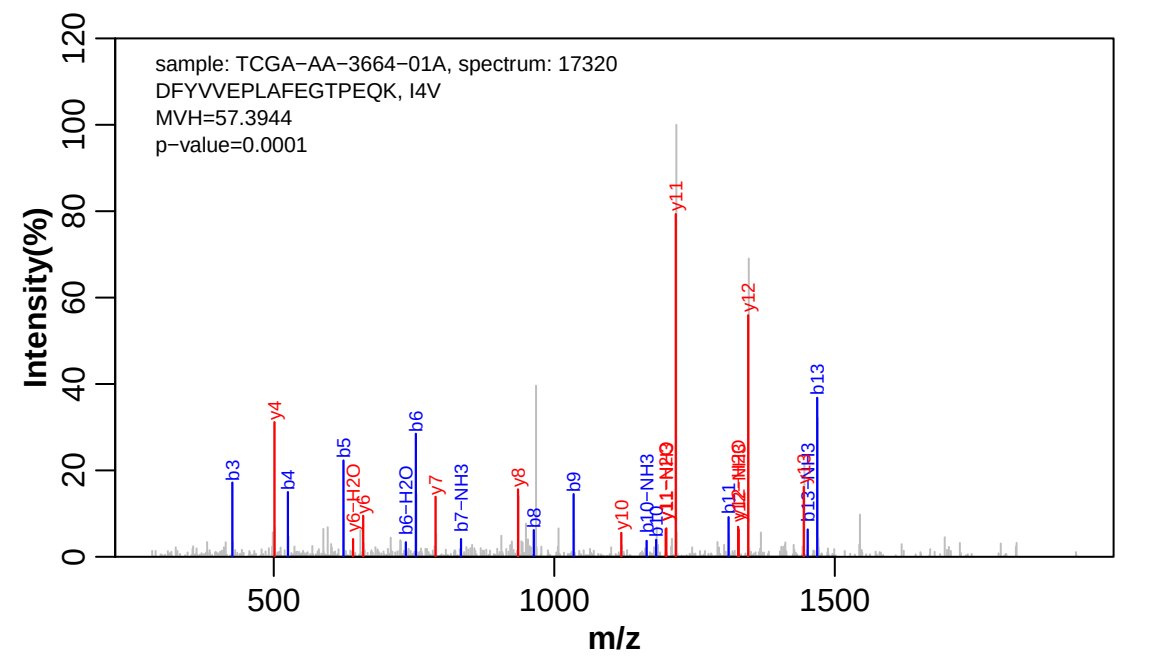

sample: TCGA−AA−3664−01A, spectrum: 34443
AAPSVTLFPPSSEELQANK, T2A
MVH=52.5844
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
y10
b7−H2O
b7
b8−NH3
b8−H2O
b8

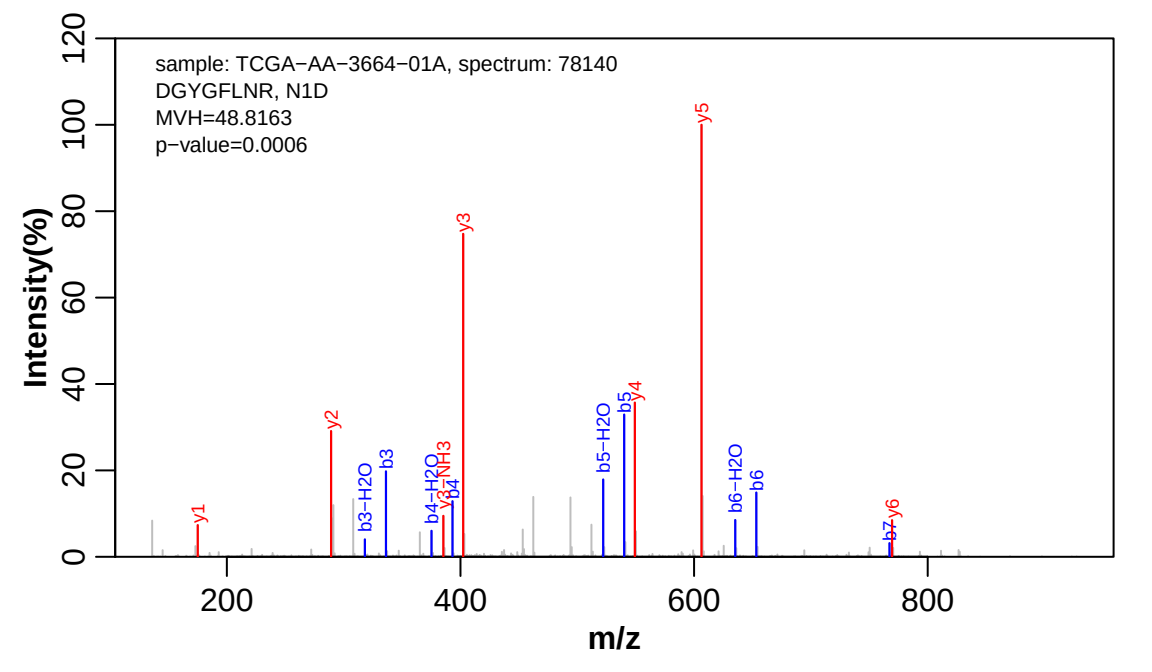

sample: TCGA−AA−3664−01A, spectrum: 13407
AGVETTTPSK, K7T
MVH=26.5855
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
800
m/z
y3
y4
y4−H2O
b5
y5
b6−NH3
y6
b7
b7−H2O
b8−NH3
y7−NH3
y7

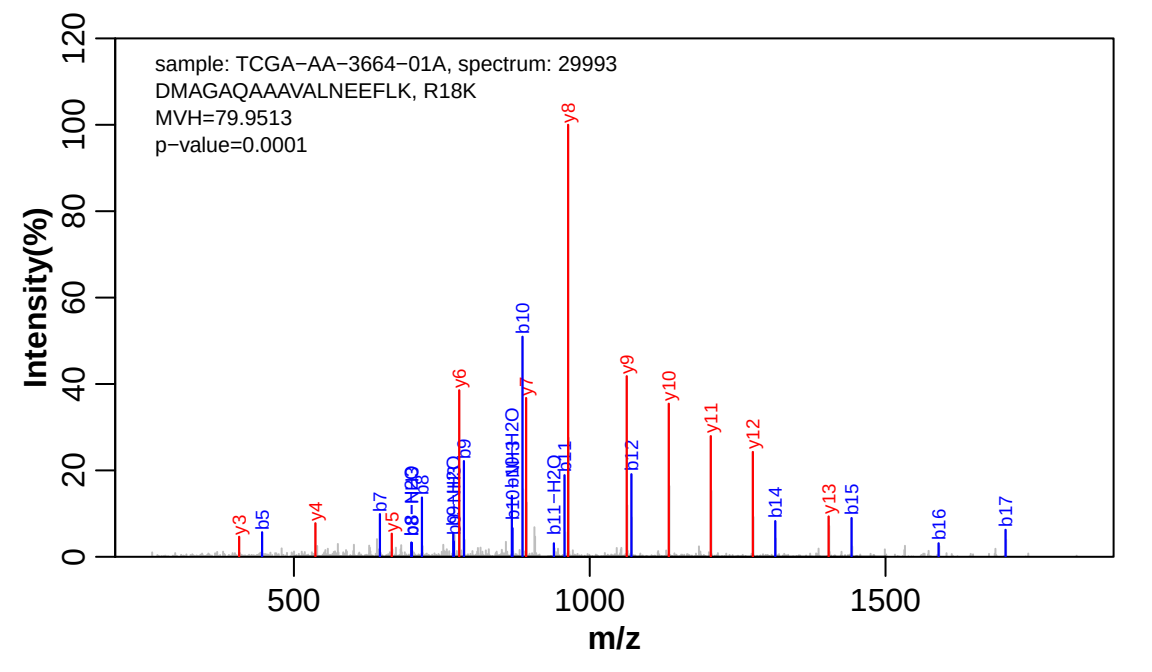

sample: TCGA−AA−3664−01A, spectrum: 34012
APSQHLSSFDPCFYR, R5H
MVH=41.8344
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
y2
b7++
y5++
y6++
b9++
y3
b8−NH3
b8−H2O
b10++
y8++−H2O
y8++−NH3
b10++−H2O
b10++−NH3
y5
y10++−NH3
y10++−H2O
y7++
b7
b8−H2O
b8++−H2O
y14++−H2O
b9−H2O
b9
y7
b10−NH3
b10
y8

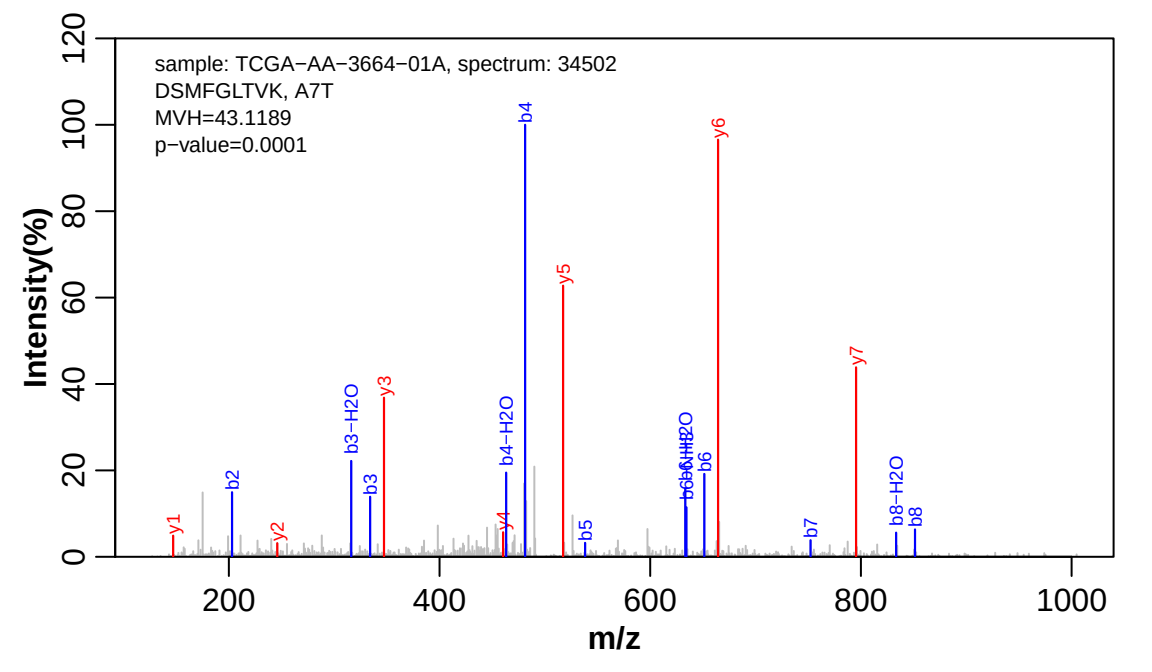

sample: TCGA−AA−3664−01A, spectrum: 53087
AQLNVGNVLPVGTMPEGTLVCCLEEKPGDR, I5V
MVH=35.5382
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y4
b5−NH3
b5
y1
b7+NH3
y6
b8−NH3
b8
b9−H2O
b9
b9−NH3
y16++
y19
b21++−H2O
y21++−NH3
y21++
y22++
b13
y23++
y24++
b14−NH3
y25++
y26++
y14

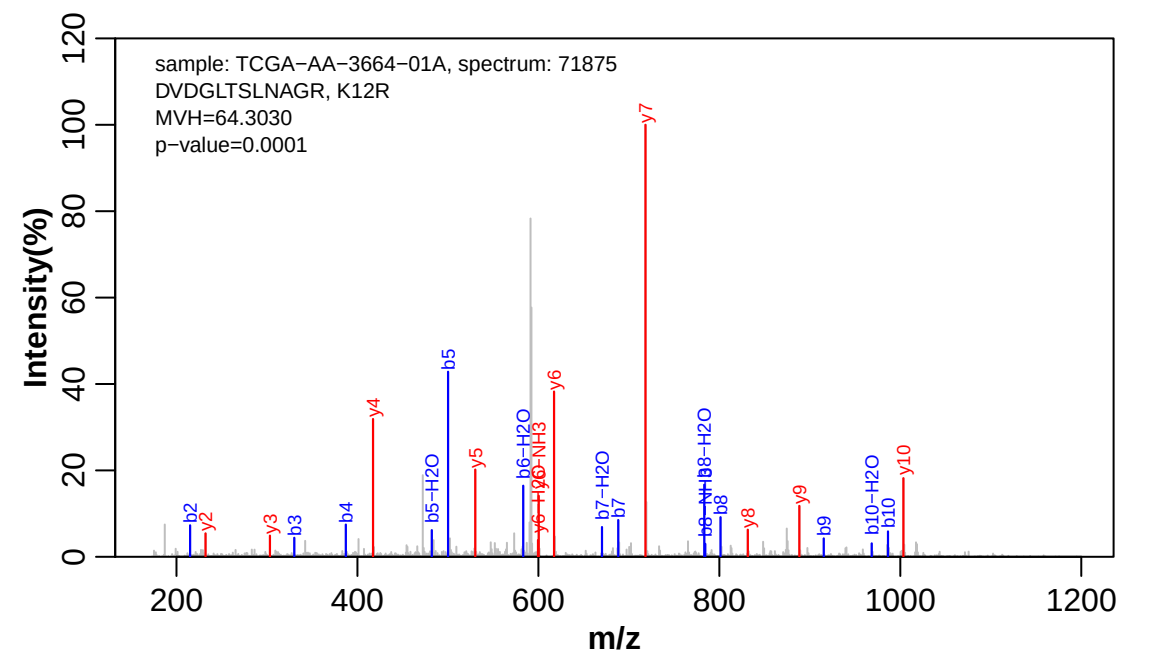

sample: TCGA−AA−3664−01A, spectrum: 75946
CDPGALVLPFSGALELK, Y1C
MVH=73.3762
p−value=0.0001
Intensity(%)
m/z
y9
b8
b7
y10
b6
y11
y12
b5
y4
y15

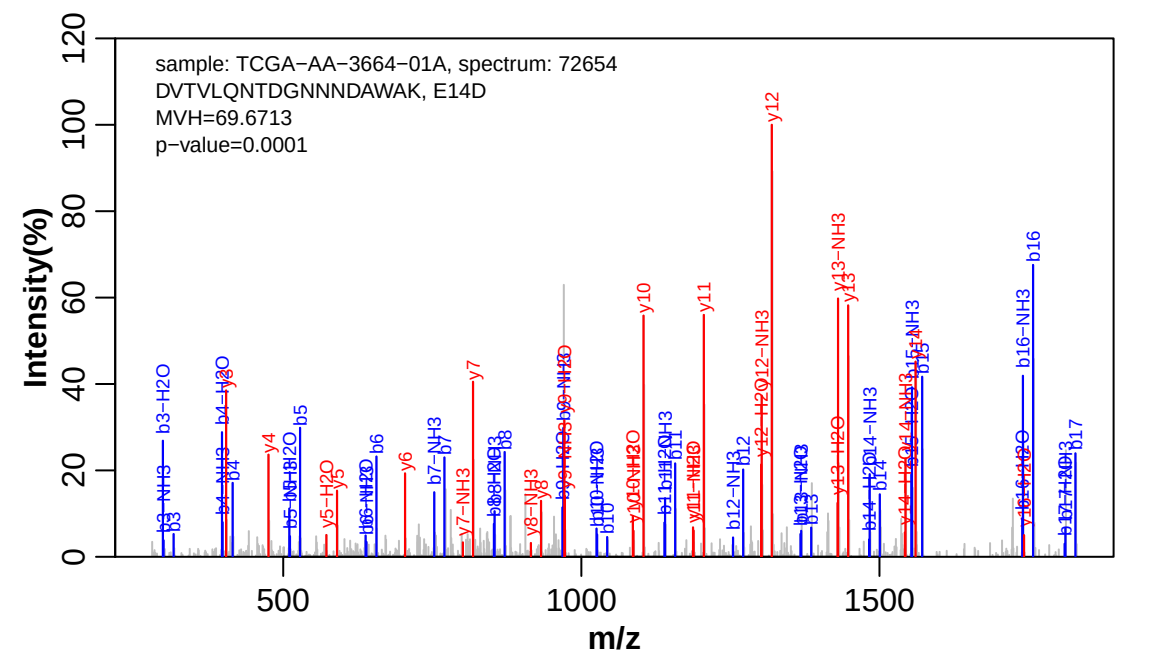

sample: TCGA−AA−3664−01A, spectrum: 17320
DFYVVEPLAFEGTPEQK, I4V
MVH=57.3944
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y6−H2O
b5
y6
b6−H2O
b6
y7
b7−NH3
y8
b8
b9
y10
b10−NH3
b10
y11−NH3
y11−H2O
y11
b11
y12−NH3
y12−H2O
y12
b13−NH3
b13

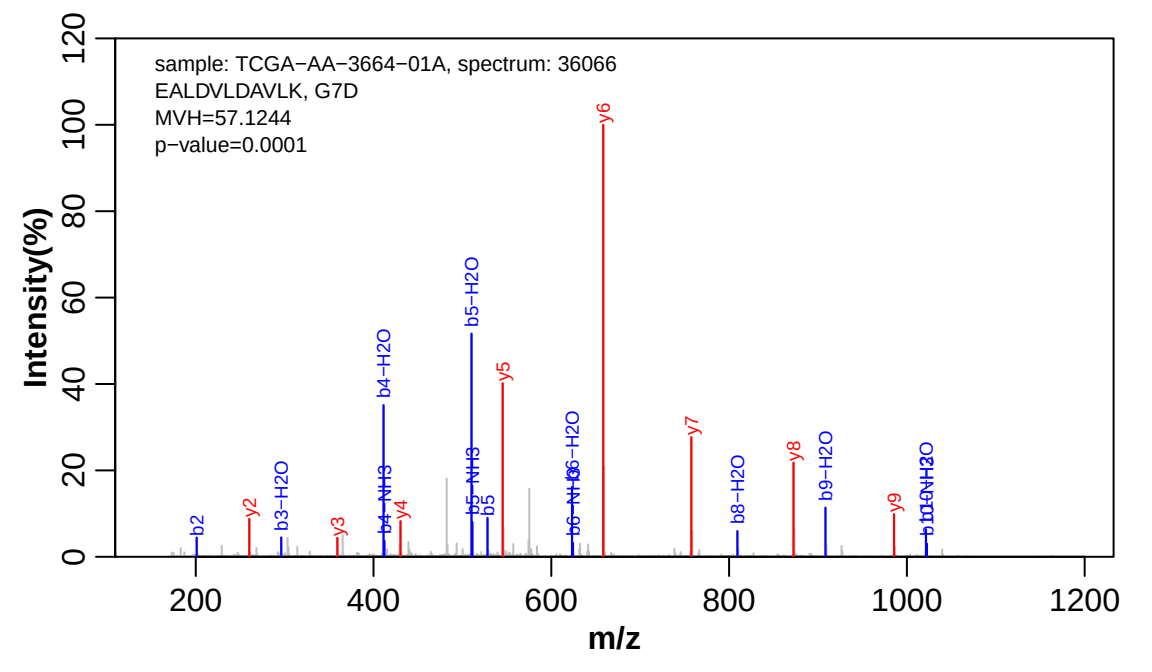

sample: TCGA−AA−3664−01A, spectrum: 78140
DGYGFLNR, N1D
MVH=48.8163
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

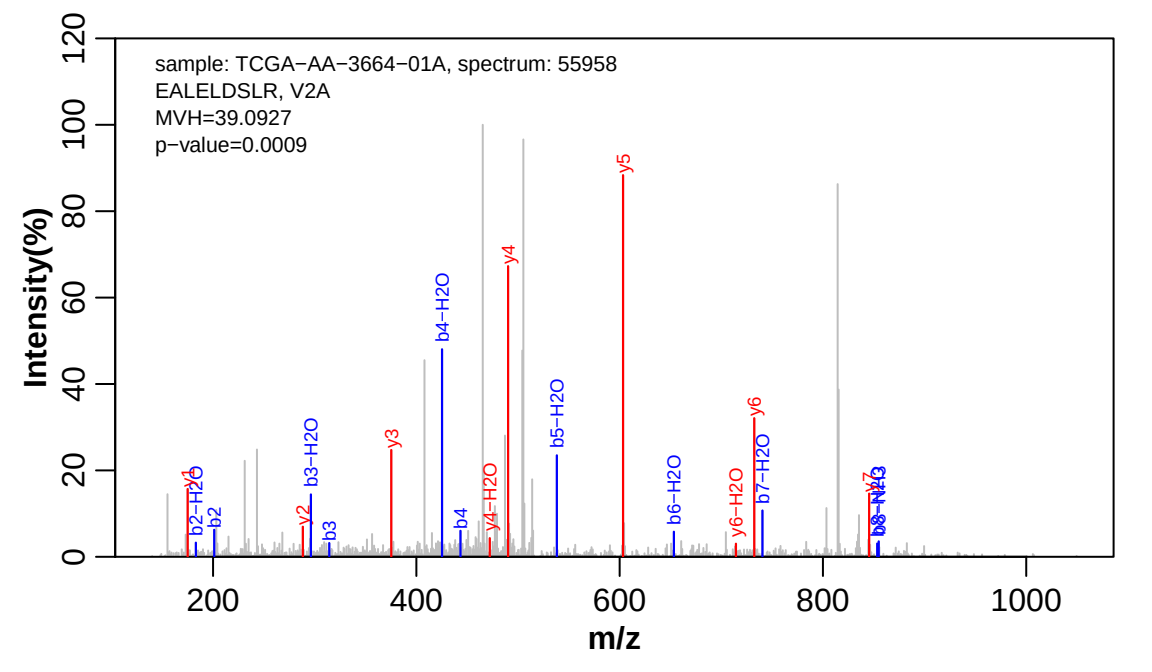

sample: TCGA−AA−3664−01A, spectrum: 29993
DMAGAQAAAVALNEEFLK, R18K
MVH=79.9513
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5
y4
b7
y5
b8−NH3
b8
b9
y6
b10
y7
b10−H2O
b11
b11−H2O
y8
y9
b12
y10
y11
y12
b14
y13
b15
b16
b17

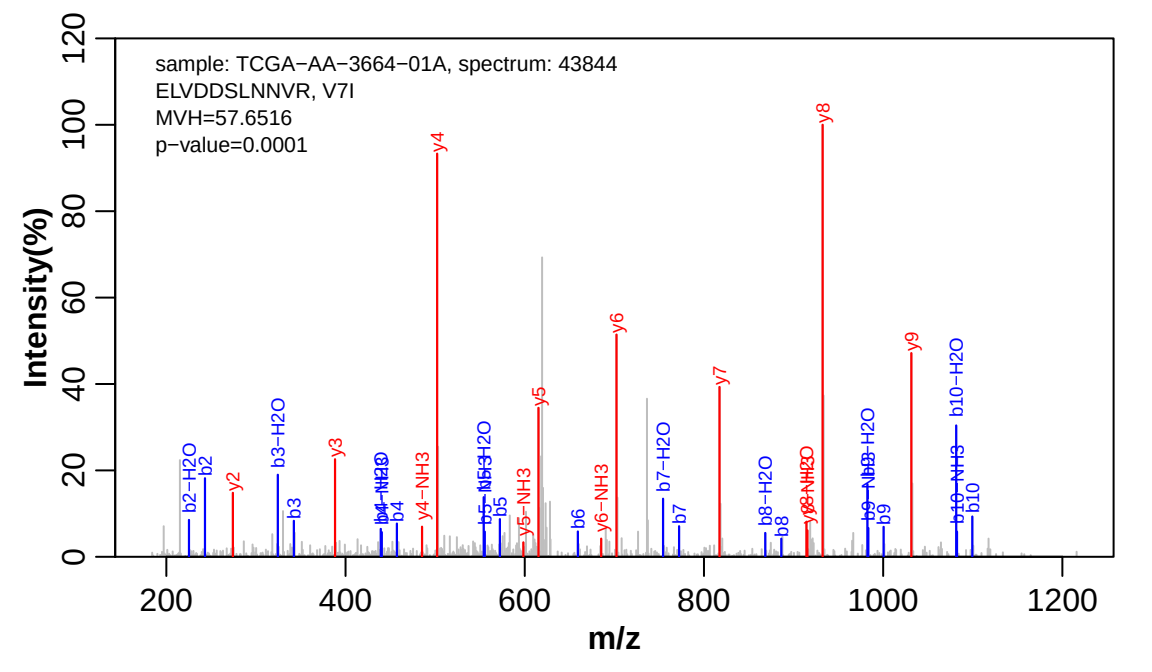

sample: TCGA−AA−3664−01A, spectrum: 34502
DSMFGLTVK, A7T
MVH=43.1189
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3
b4
b4−H2O
y4
y5
b5
b6
y6
y7
b7
b8−H2O
b8

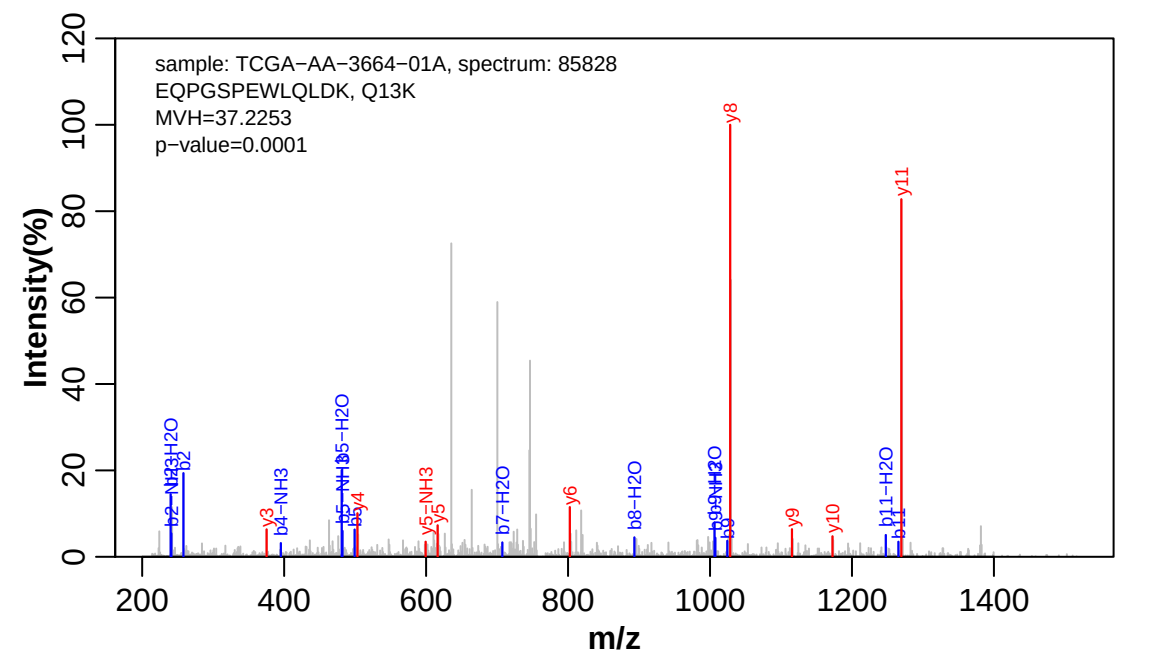

sample: TCGA−AA−3664−01A, spectrum: 71875
DVDGLTSLNAGR, K12R
MVH=64.3030
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y7
b5
y4
y6
b6−H2O
b6−NH3
y6−H2O
y5
b5−H2O
b7−H2O
b7
b8−H2O
b8−NH3
b8
y8
y9
b9
b10−H2O
b10
y10
b2
y2
y3
b3
b4

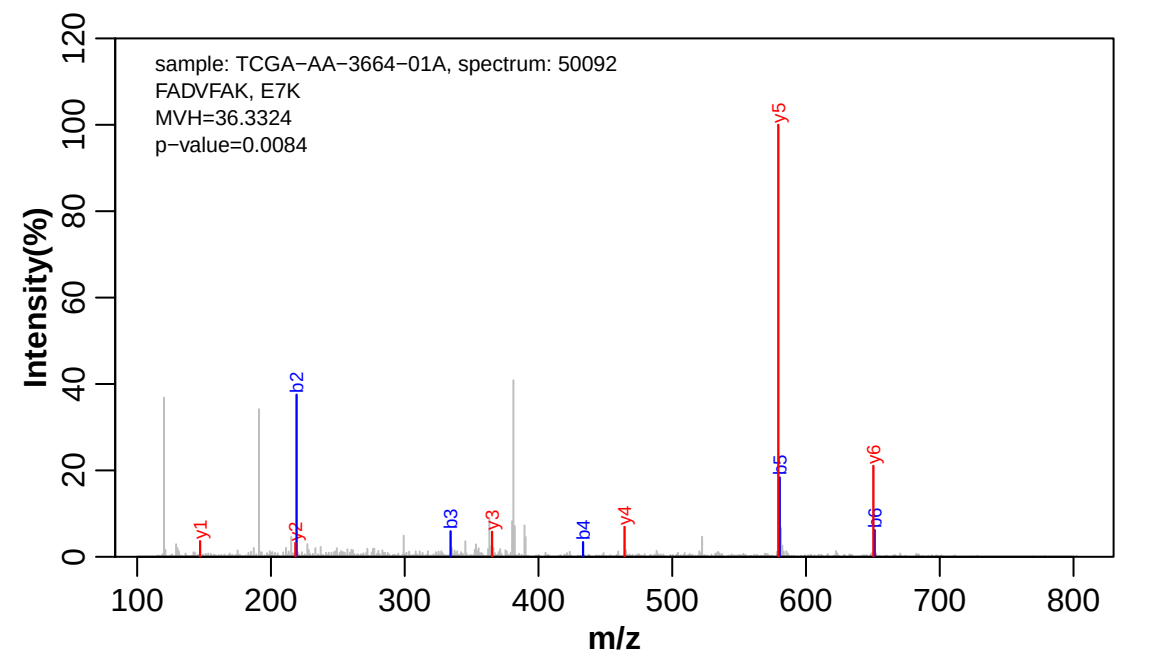

sample: TCGA−AA−3664−01A, spectrum: 72654
DVTVLQNTDGNNNDAWAK, E14D
MVH=69.6713
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y10
y11
y7
y6
y4
y5
y13−NH3
y13
b16
b16−NH3
b15
b15−NH3
b5
b3−H2O
b4−H2O
y12−NH3
y14−NH3
b17

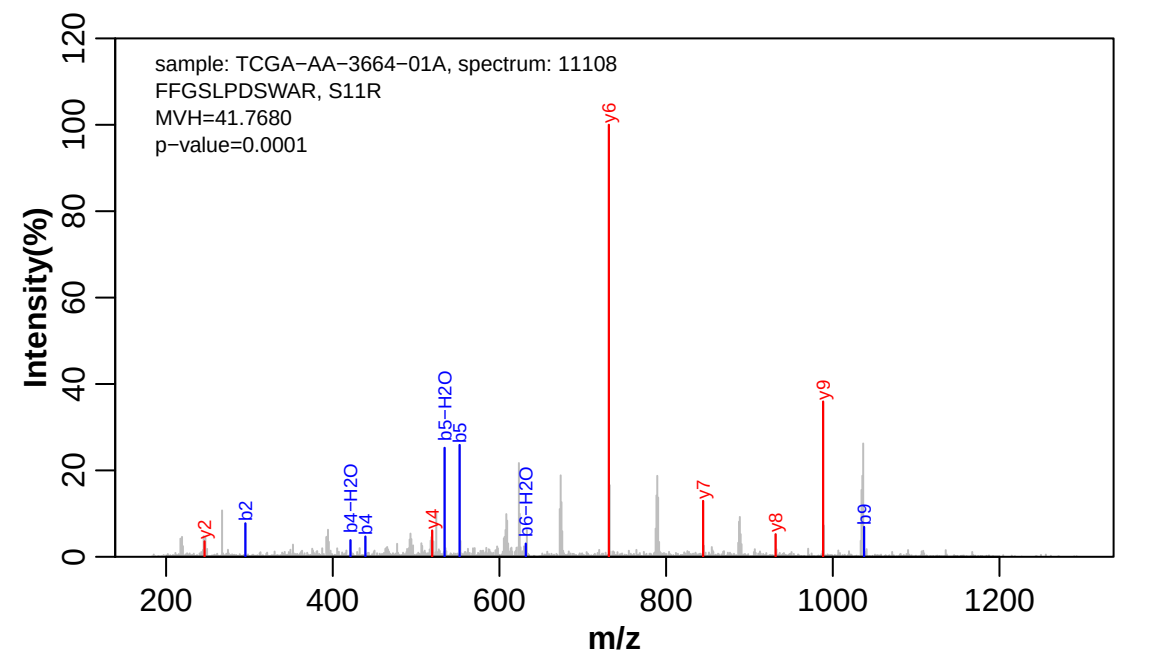

sample: TCGA−AA−3664−01A, spectrum: 36066
EALDVLDAVLK, G7D
MVH=57.1244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
y6
y7
b8−H2O
y8
b9−H2O
y9

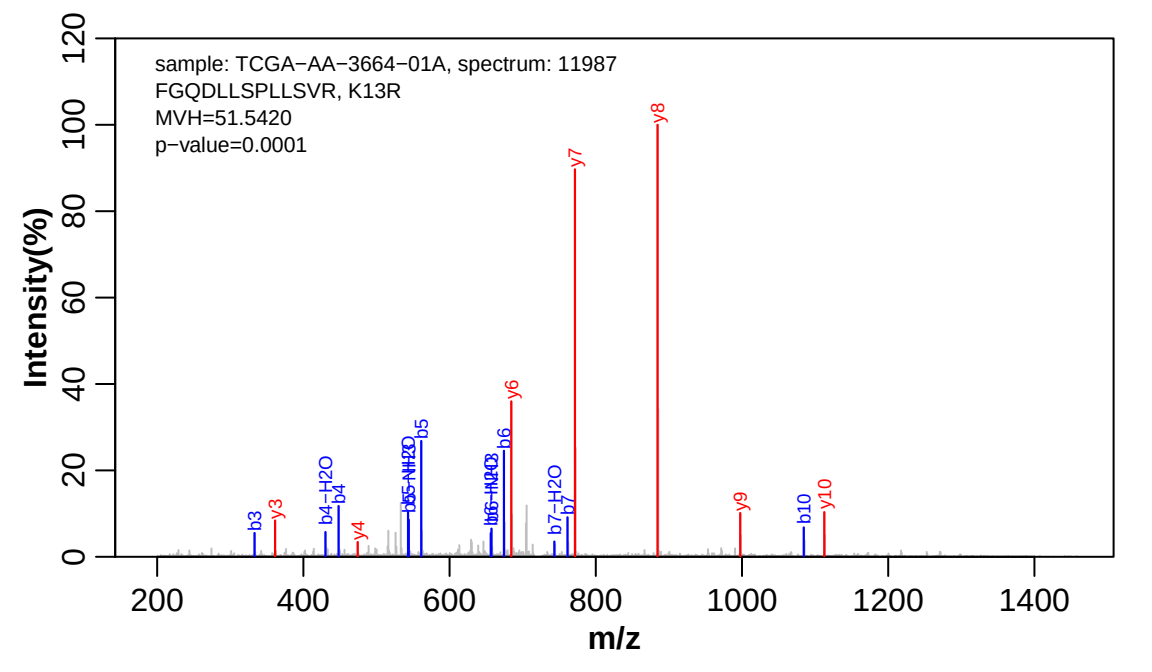

sample: TCGA−AA−3664−01A, spectrum: 55958
EALELDSLR, V2A
MVH=39.0927
p−value=0.0009
Intensity(%)
m/z
y5
y4
b4−H2O
b5−H2O
y6
y3
b3−H2O
b6−H2O
y6−H2O
b7−H2O
y4−H2O
b4
b2−H2O
b2
y2
b3
y1
b8−NH3
y7

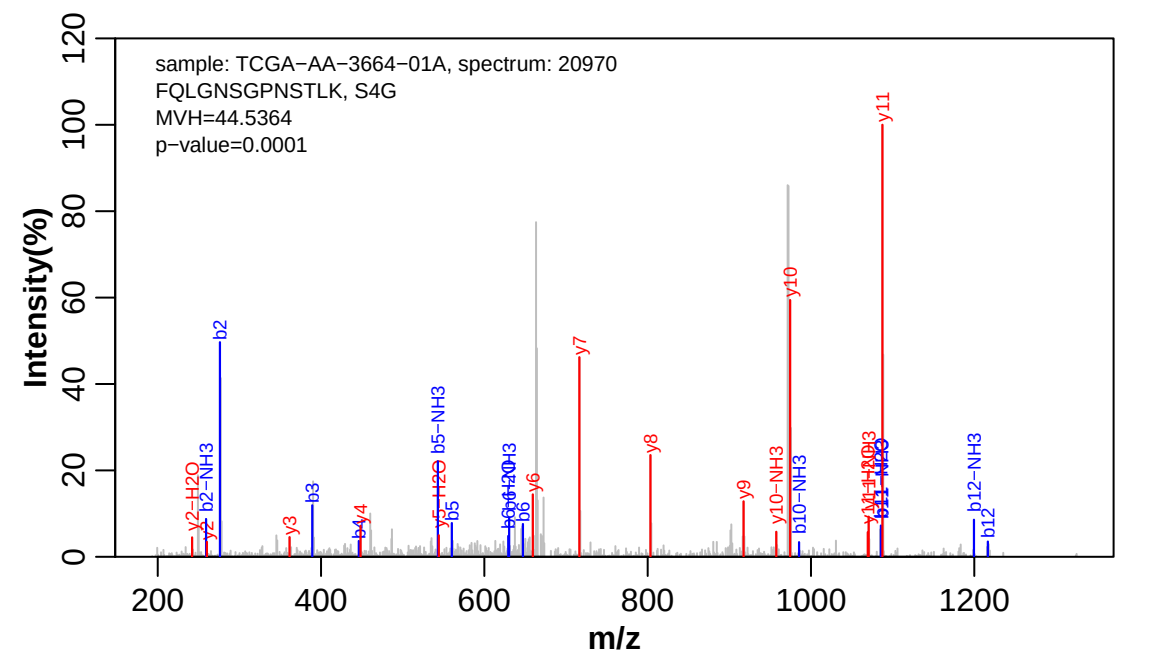

sample: TCGA−AA−3664−01A, spectrum: 43844
ELVDDSLNNVR, V7I
MVH=57.6516
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
y4
y4−NH3
b4
b5
y5−NH3
y5
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10−H2O
b10−NH3
b10

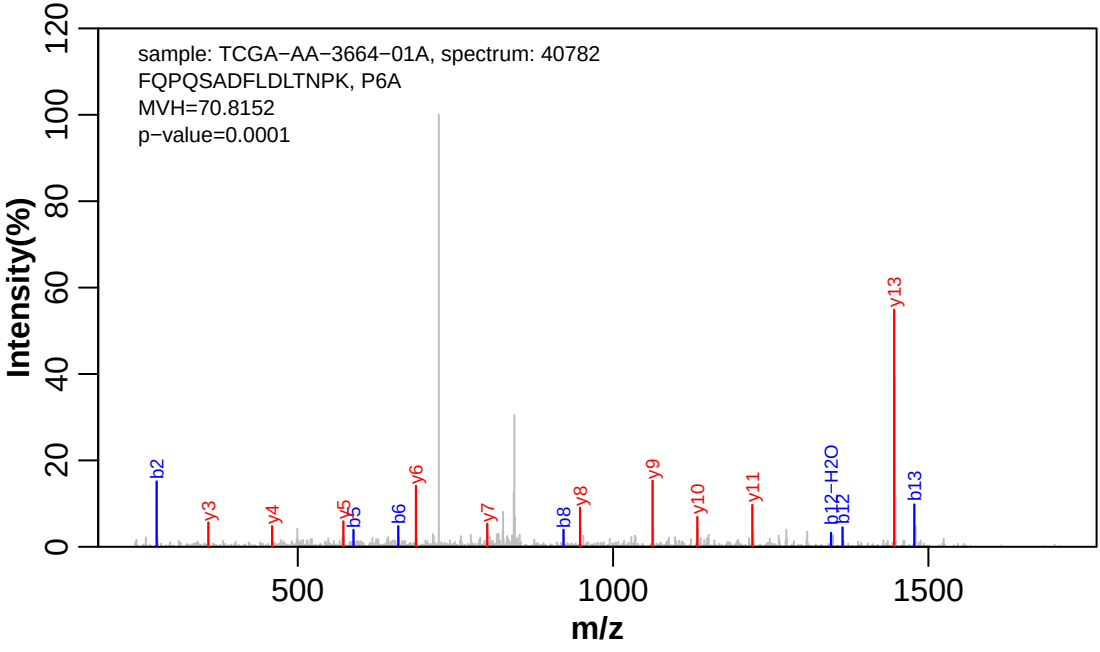

sample: TCGA−AA−3664−01A, spectrum: 85828
EQPGSPEWLQLDK, Q13K
MVH=37.2253
p−value=0.0001
Intensity(%)
m/z
y8
y11
y9
y10
y6
y5−NH3
y5
y3
b2−H2O
b2
b4−NH3
b5−H2O
b5
b5/4
b7−H2O
b8−H2O
b8
b11−H2O
b11

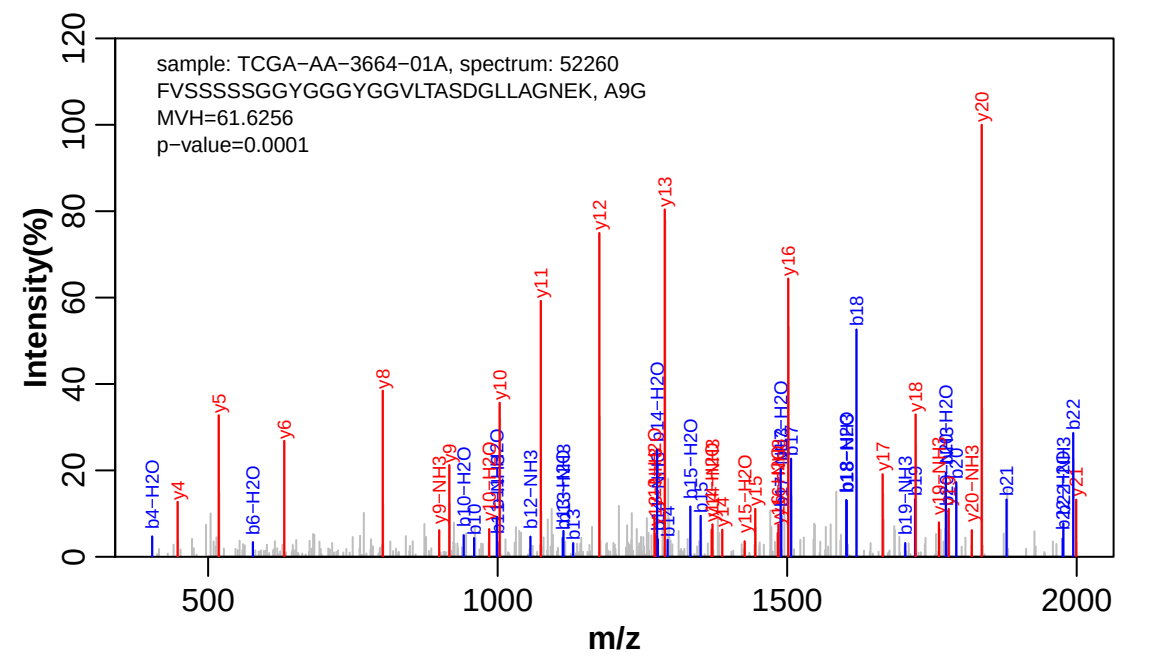

sample: TCGA−AA−3664−01A, spectrum: 50092
FADVFAK, E7K
MVH=36.3324
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
y2
b3
y3
b4
y4
y5
b5
y6
b6

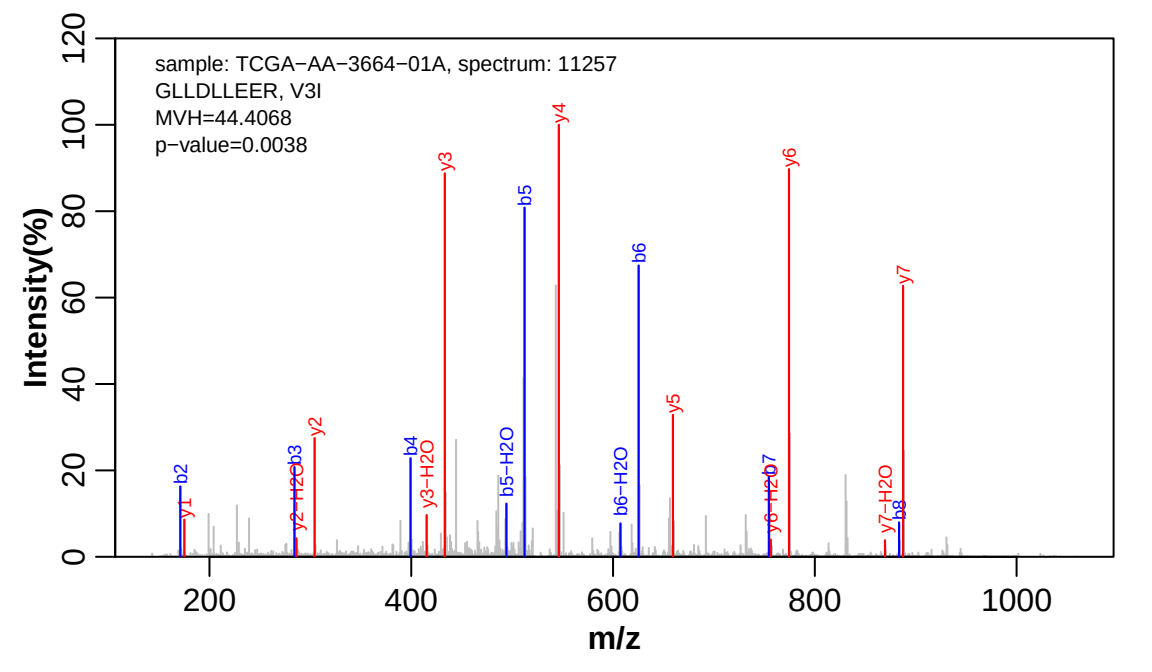

sample: TCGA−AA−3664−01A, spectrum: 11108
FFGSLPDSWAR, S11R
MVH=41.7680
p−value=0.0001
Intensity(%)
m/z
y6
y9
b5−H2O
b5
y7
b4−H2O
b4
b6−H2O
y4
y8
b2
y2
b9

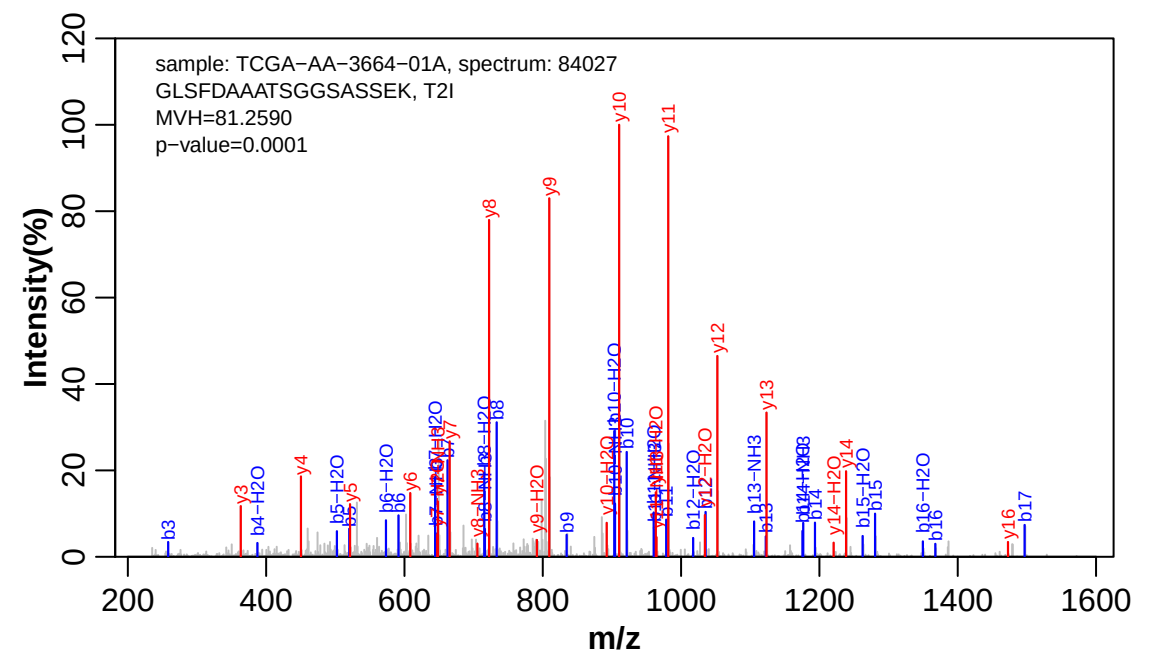

sample: TCGA−AA−3664−01A, spectrum: 11987
FGQDLLSPLLSVR, K13R
MVH=51.5420
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

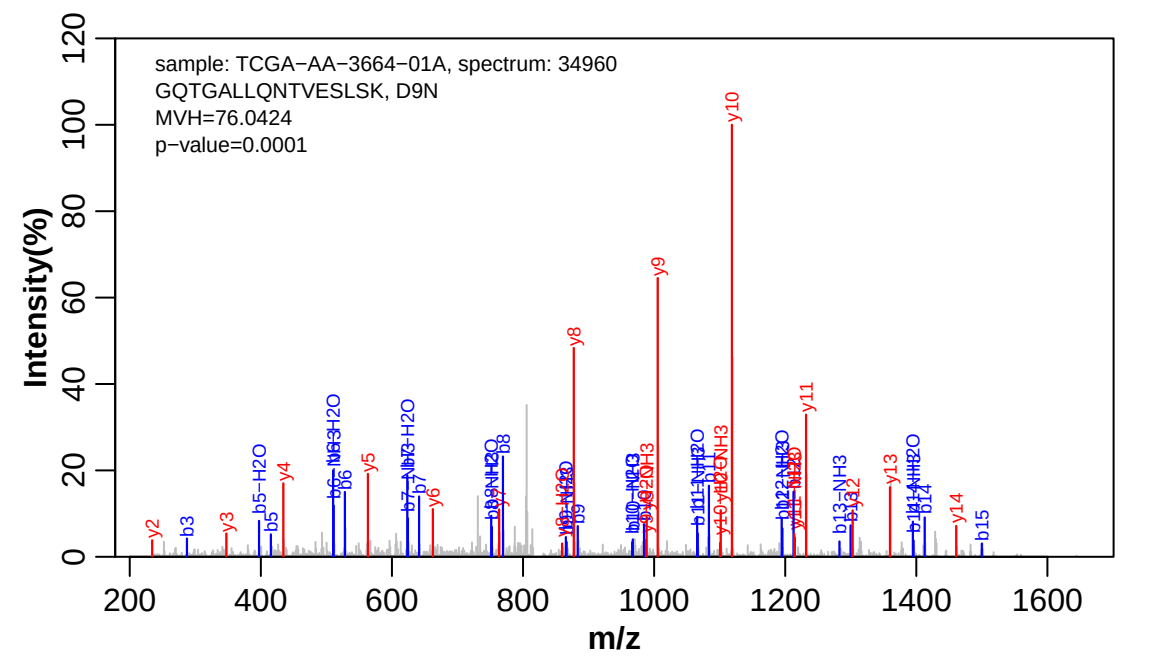

sample: TCGA−AA−3664−01A, spectrum: 20970
FQLGNSGPNSTLK, S4G
MVH=44.5364
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y11
y10
y7
y8
y9
y10−NH3
b10−NH3
b12−NH3
b12
b2
b2−NH3
y2−H2O
y2
b3
y3
b4
y4
b5
b5−NH3
y5−H2O
b6
y6

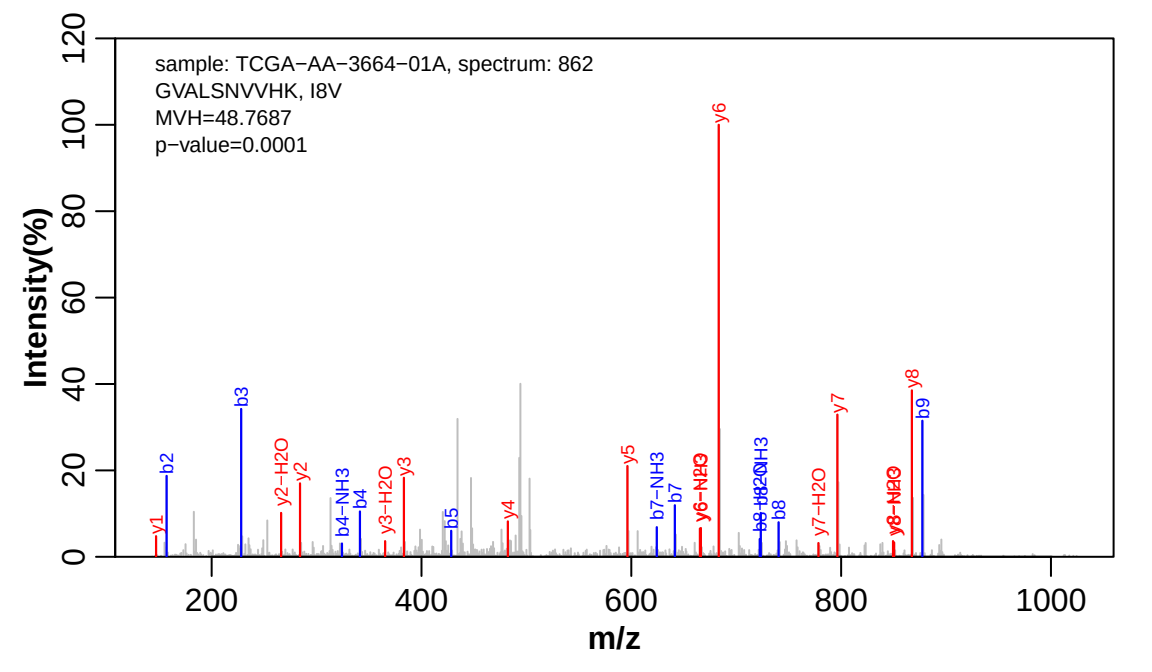

sample: TCGA−AA−3664−01A, spectrum: 40782
FQPQSADFLDLTNPK, P6A
MVH=70.8152
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b2
y3
y4
y5
b5
b6
y6
y7
b8
y8
y9
y10
y11
b12−H2O
b12
y13
b13

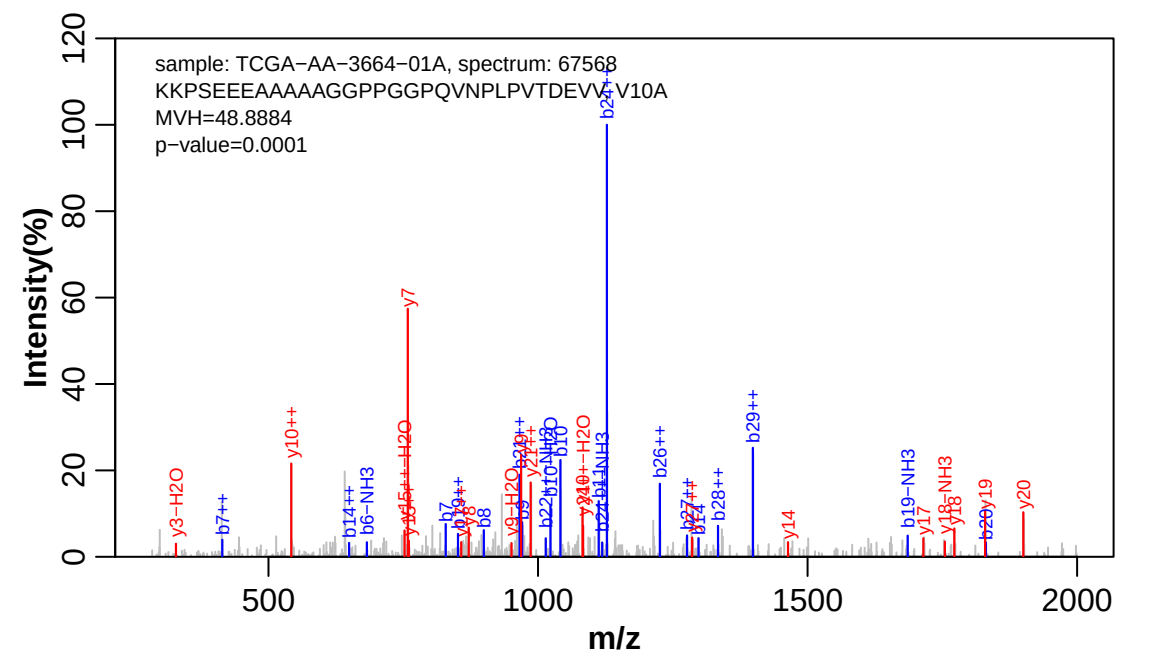

sample: TCGA−AA−3664−01A, spectrum: 52260
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=61.6256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y4
y5
b6−H2O
y6
y8
y9−NH3
y9
b10−H2O
b10
y10
b12−NH3
y11
y12
y13
b14−H2O
b15−H2O
y15−H2O
y16
b17−H2O
b18
y17
y18
b19−NH3
b19
y19−NH3
y19−H2O
y20
y20−NH3
b21
b22
y21

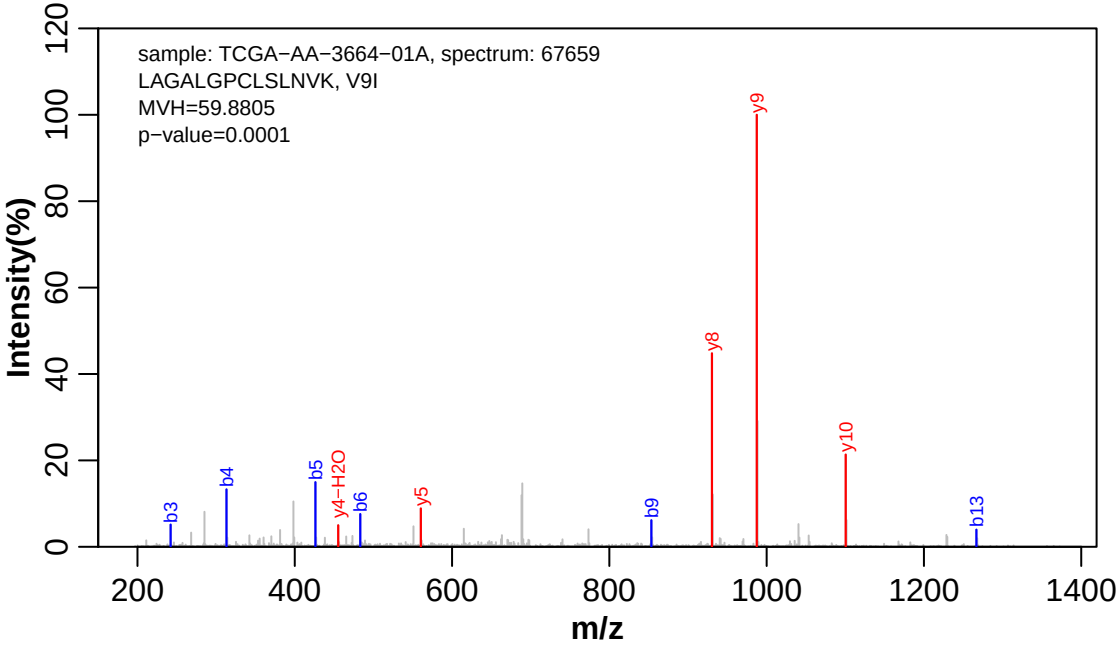

sample: TCGA−AA−3664−01A, spectrum: 11257
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y2−H2O
b4
y3
y3−H2O
b5
b5−H2O
y4
b6
b6−H2O
y5
y6
y6−H2O
b7
y7
y7−H2O
b8

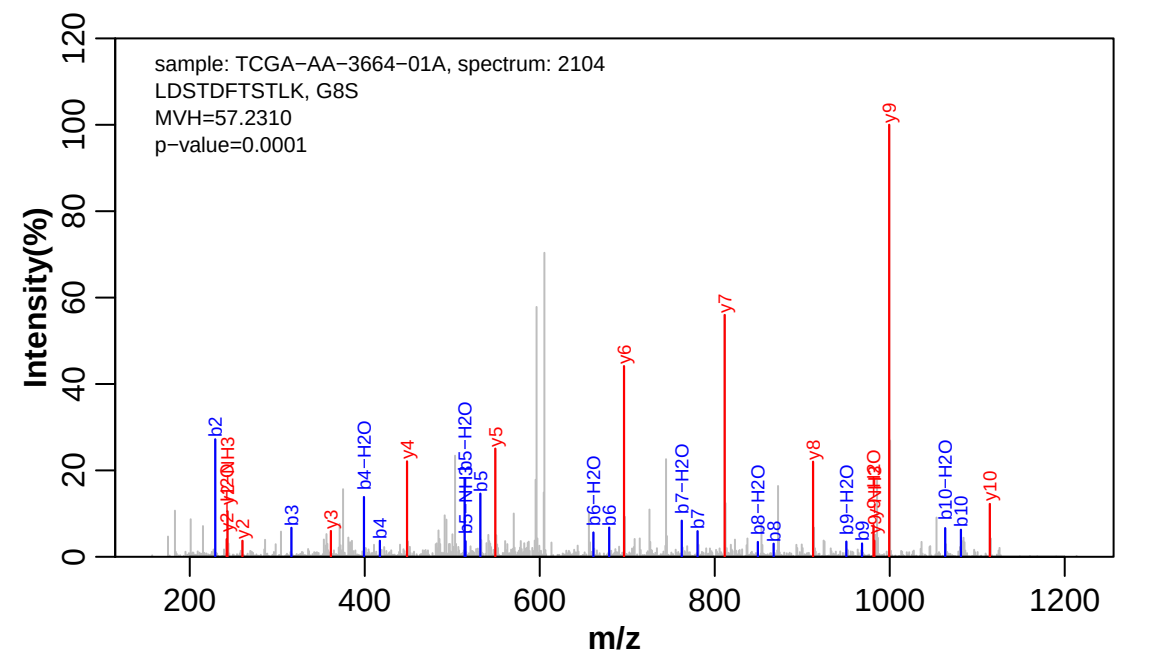

sample: TCGA−AA−3664−01A, spectrum: 84027
GLSFDAAATSGGSASSEK, T2I
MVH=81.2590
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y11
y8
y9
y12
y13
y4
y3
y6
y14
y16
b3
b4−H2O
b5−H2O
b6−H2O
b8
b10
b12−H2O
b13−NH3
b15−H2O
b16−H2O
b17

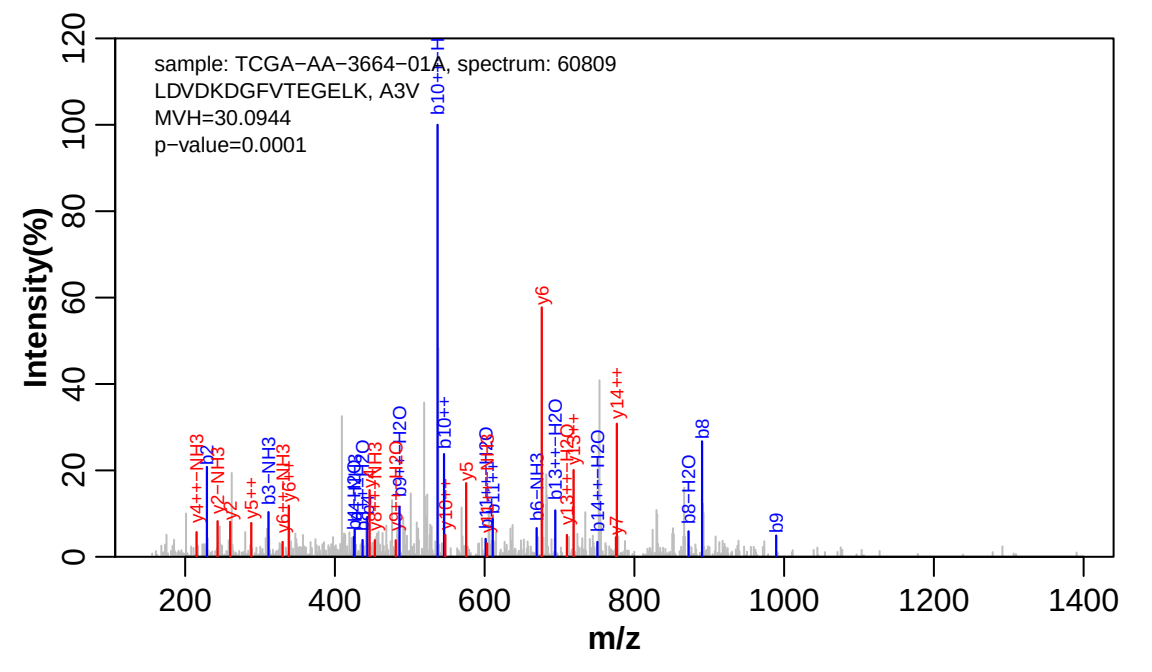

sample: TCGA−AA−3664−01A, spectrum: 34960
GQTGALLQNTVESLSK, D9N
MVH=76.0424
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3
b5−H2O
b5
y4
b6−NH3−H2O
b6
y5
b7−NH3−H2O
b7
y6
b8
y8
y9
y10
y11
b13−NH3
b13
y13
b14
y14
b15

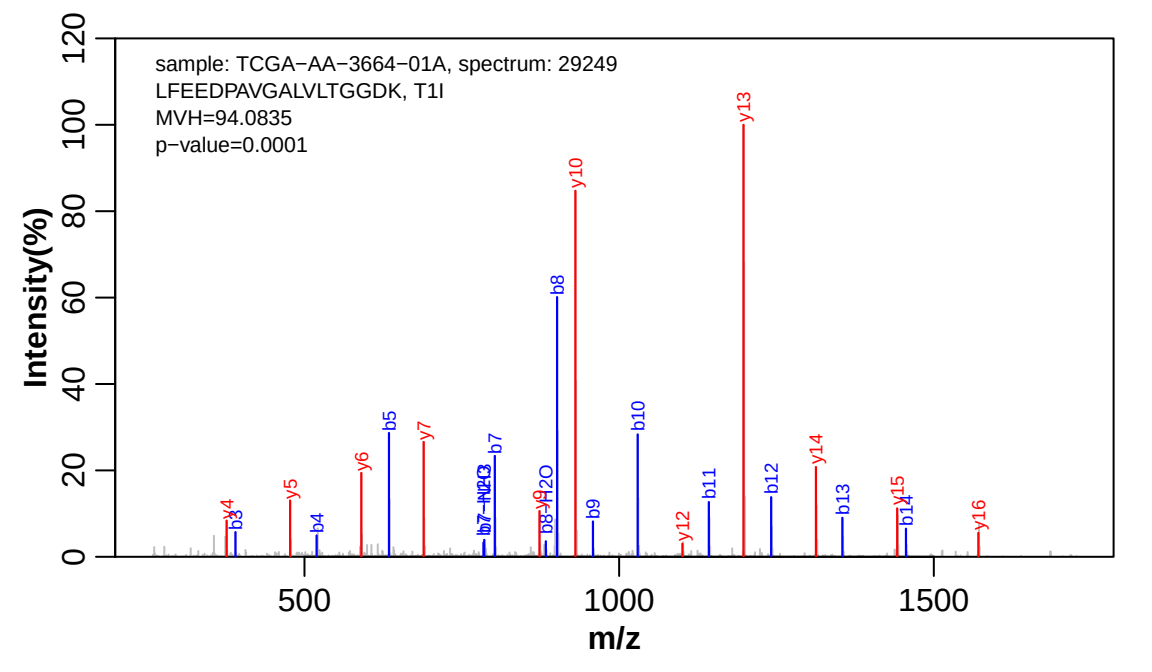

sample: TCGA−AA−3664−01A, spectrum: 862
GVALSNVVHK, I8V
MVH=48.7687
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2−H2O
y2
b4−NH3
b4
y3−H2O
y3
b5
y4
y5
b7−NH3
b7
y6−NH3
y6
b8−H2O−NH3
b8
y7−H2O
y7
y8−NH3
y8
b9

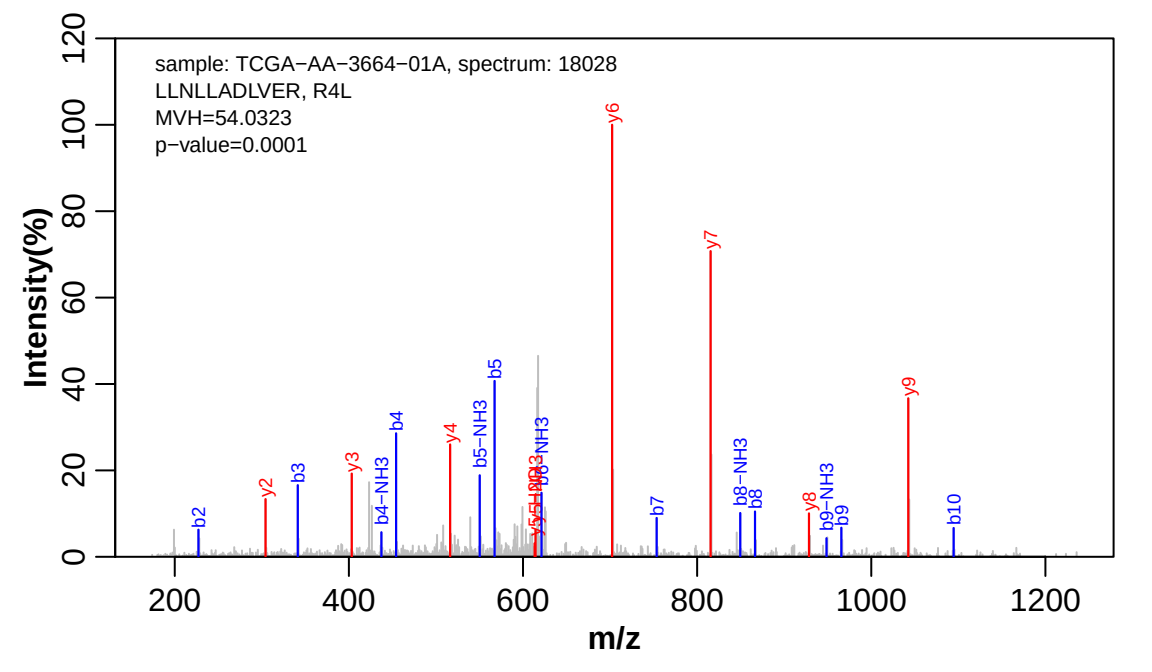

sample: TCGA−AA−3664−01A, spectrum: 67568
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=48.8884
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3−H2O
b7++
y10++
b14++
b6−NH3
y15++−H2O
y7
b7
b8
b8
b9−H2O
b22
b10
b10−NH3
y24++−H2O
b24++
b26++
b27++
b28++
b29++
y14
b19−NH3
y17
y18−NH3
b20y19
y20

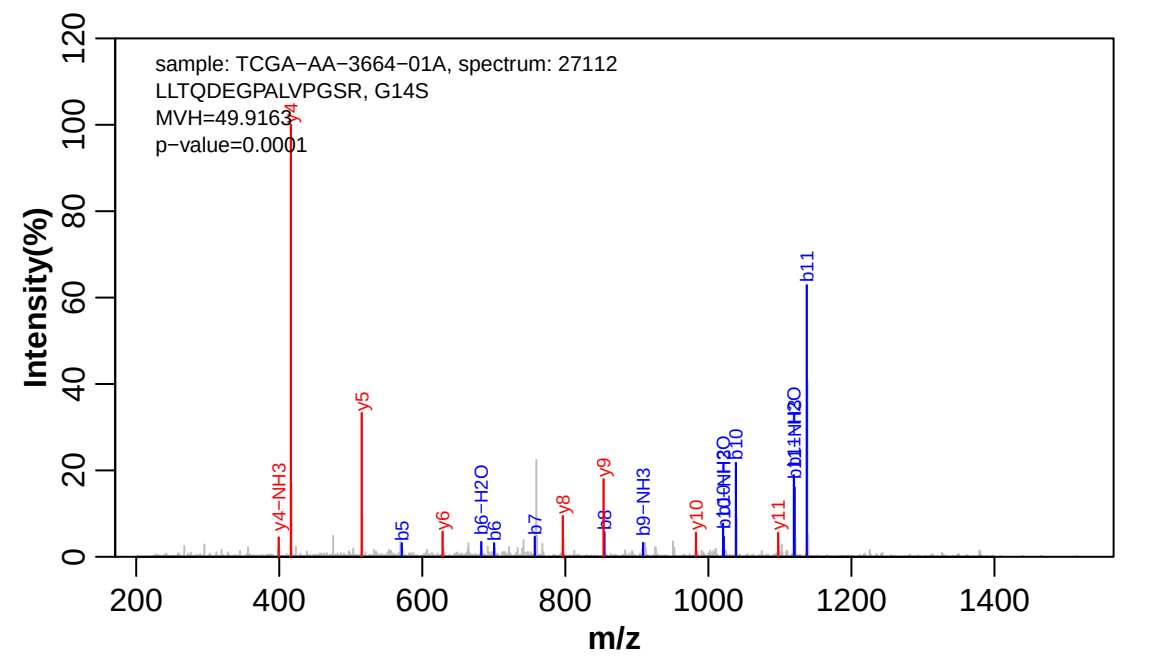

sample: TCGA−AA−3664−01A, spectrum: 67659
LAGALGPCLSLNVK, V9I
MVH=59.8805
p−value=0.0001
Intensity(%)
m/z
b3
b4
b5
y4−H2O
b6
y5
b9
y8
y9
y10
b13

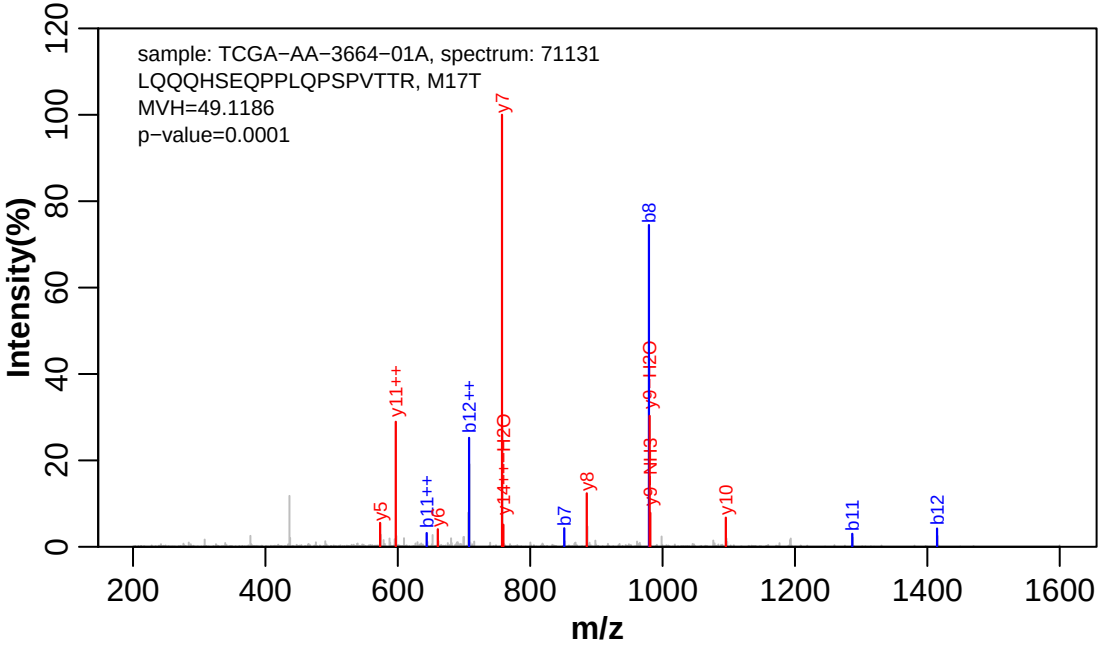

sample: TCGA−AA−3664−01A, spectrum: 2104
LDSTDFTSTLK, G8S
MVH=57.2310
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−H2O
y2−NH3
y2
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9−H2O
b9
y9−NH3
y9−H2O
y9
b10−H2O
b10
y10

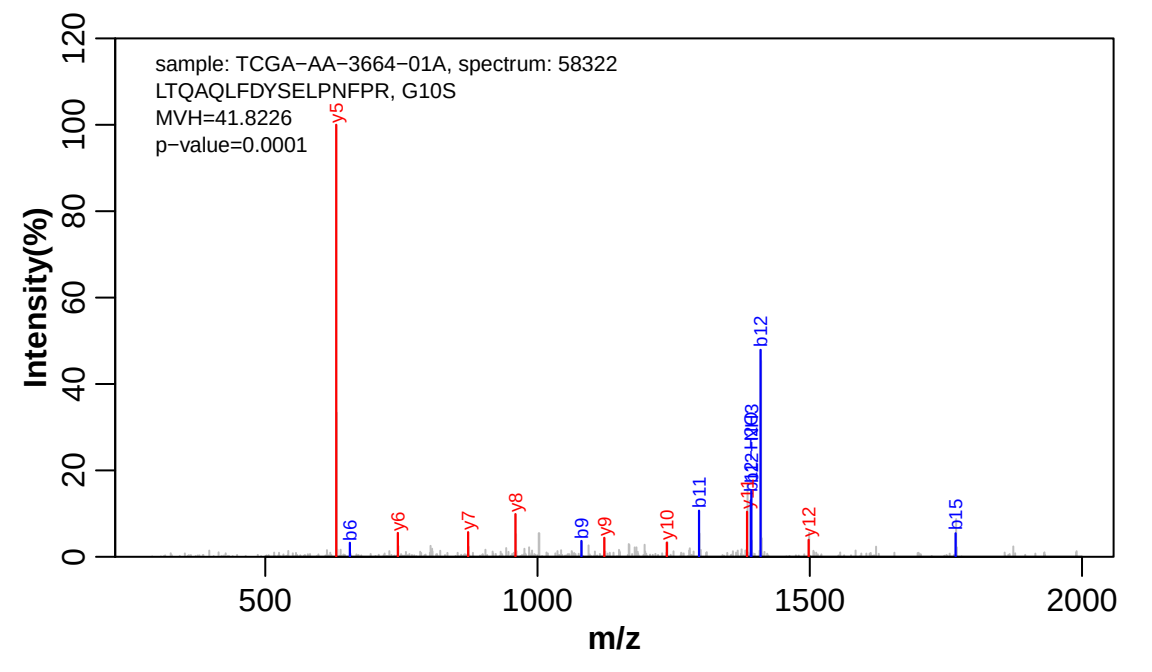

sample: TCGA−AA−3664−01A, spectrum: 60809
LDVDKDGFVTEGELK, A3V
MVH=30.0944
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10+−H
b10++
y6
y14++
b8
b9
y7
y5
b14++−H2O
b13++−H2O
b6−NH3
y13++
y13++−H2O
b8−H2O
y4++−NH3
b2
y2−NH3
y2
y5++
b3−NH3
y6+−NH3
y6+
y8++−NH3
y8++
y9+−H2O
y9+
y10++
b11++−H2O
b11++

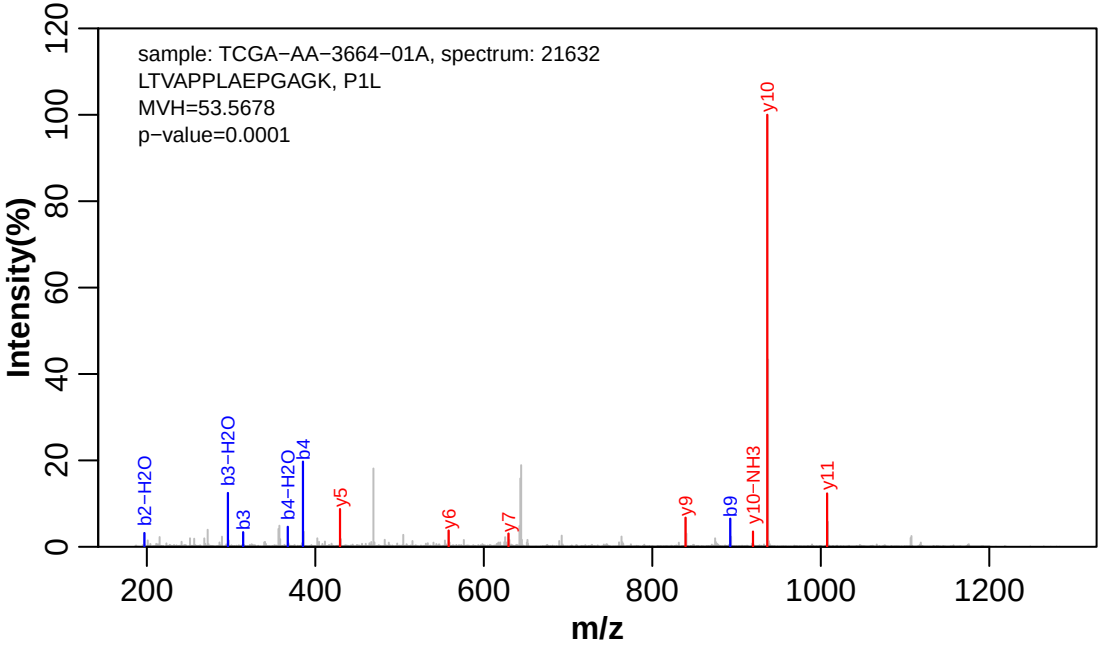

sample: TCGA−AA−3664−01A, spectrum: 29249
LFEEDPAVGALVLTGGDK, T1I
MVH=94.0835
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y7
y6
y5
y4
b3
b4
b7
b7−NH3
b7−H2O
b8−H2O
y9
b9
b10
y12
b11
b12
y14
b13
y15
b14
y16

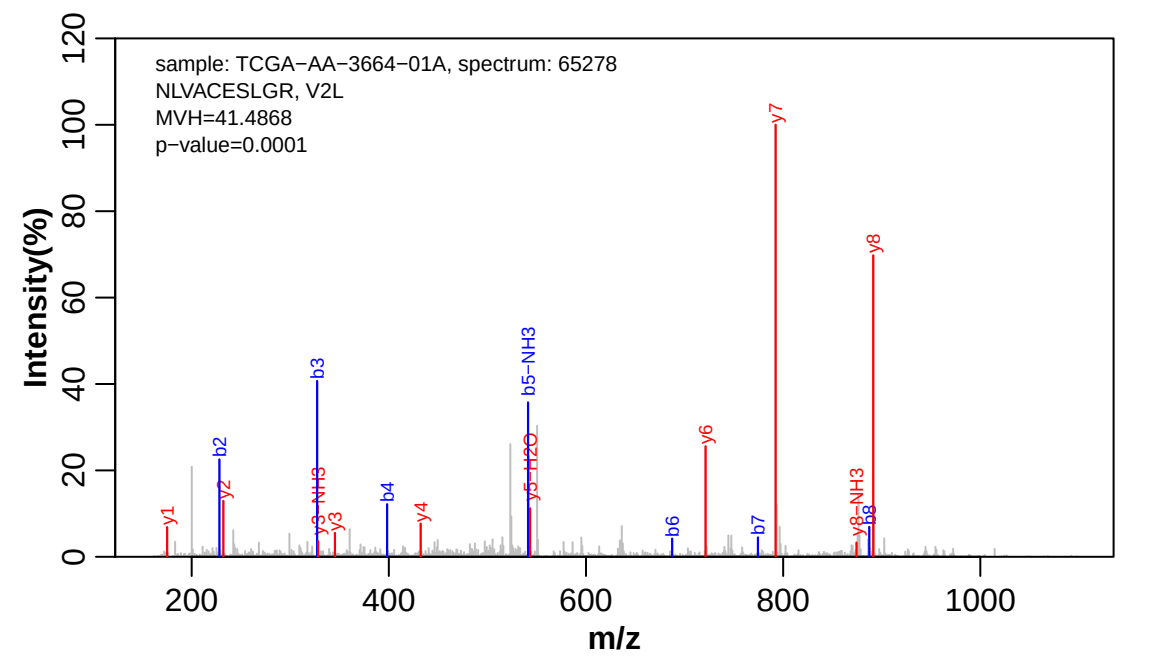

sample: TCGA−AA−3664−01A, spectrum: 18028
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
y8
b9−NH3
b9
b10

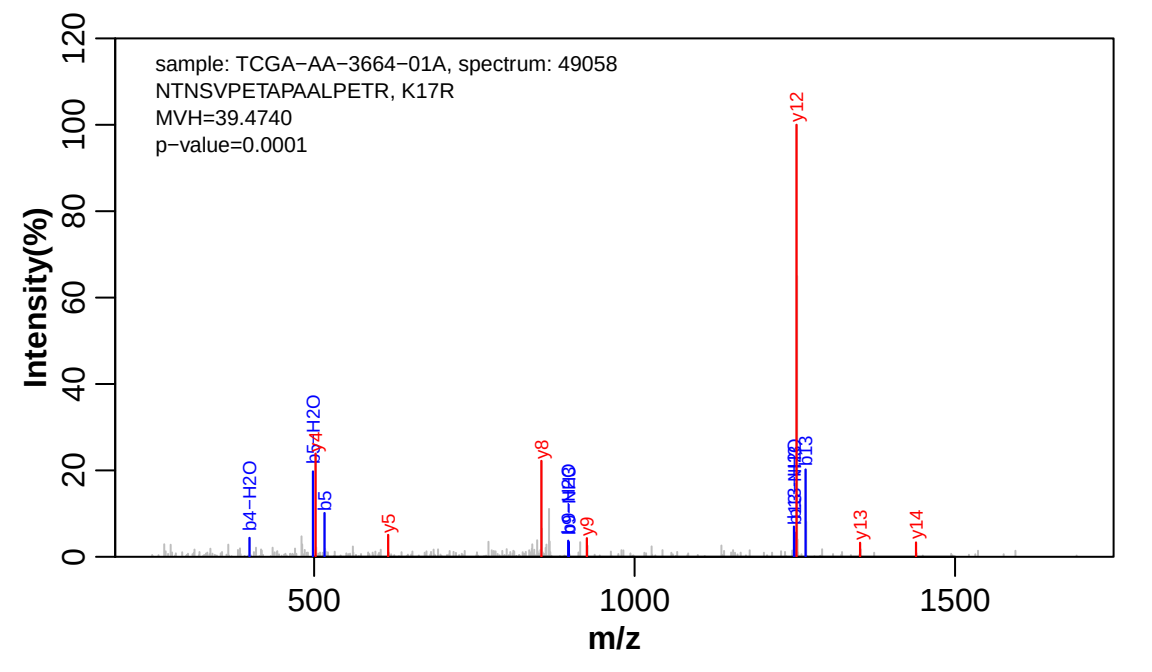

sample: TCGA−AA−3664−01A, spectrum: 27112
LLTQDEGPALVPGSR, G14S
MVH=49.9163
p−value=0.0001
Intensity(%)
m/z
y4
y4−NH3
y5
b5
y6
b6−H2O
b6
b7
y8
y9
b8
b9−NH3
y10
b10
y11
b11

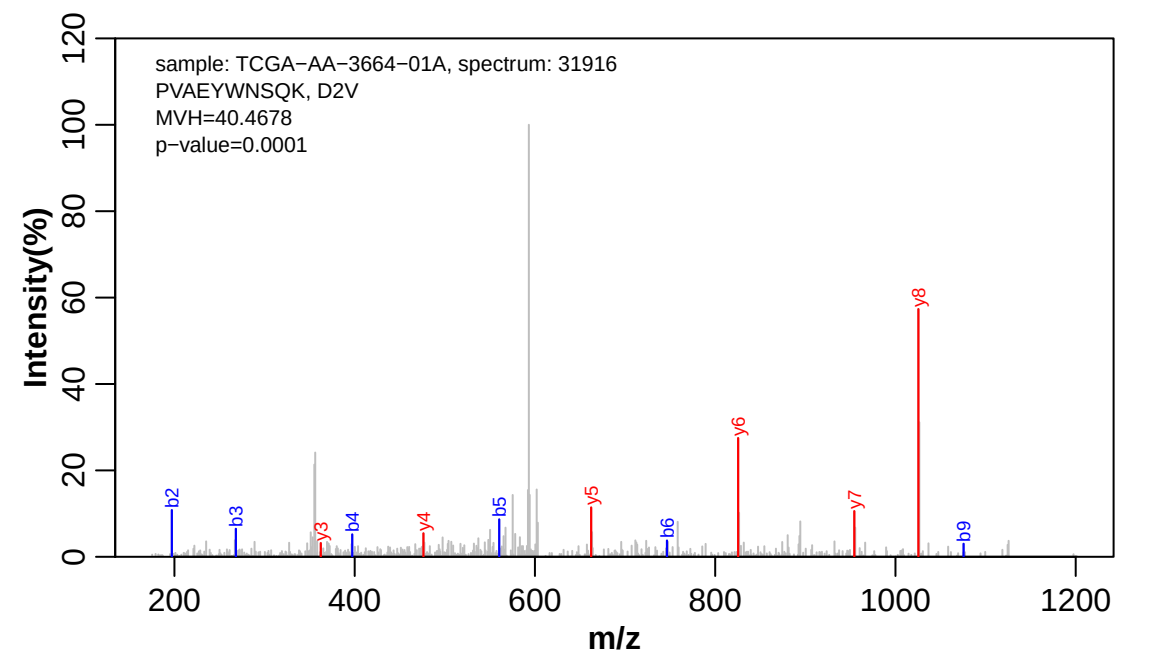

sample: TCGA−AA−3664−01A, spectrum: 71131
LQQQHSEQPPLQPSPVTTR, M17T
MVH=49.1186
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y5
y11++
b11++
y6
b12++
y14++ H2O
y7
b7
y8
y9 NH3
y9 H2O
b8
y10
b11
b12

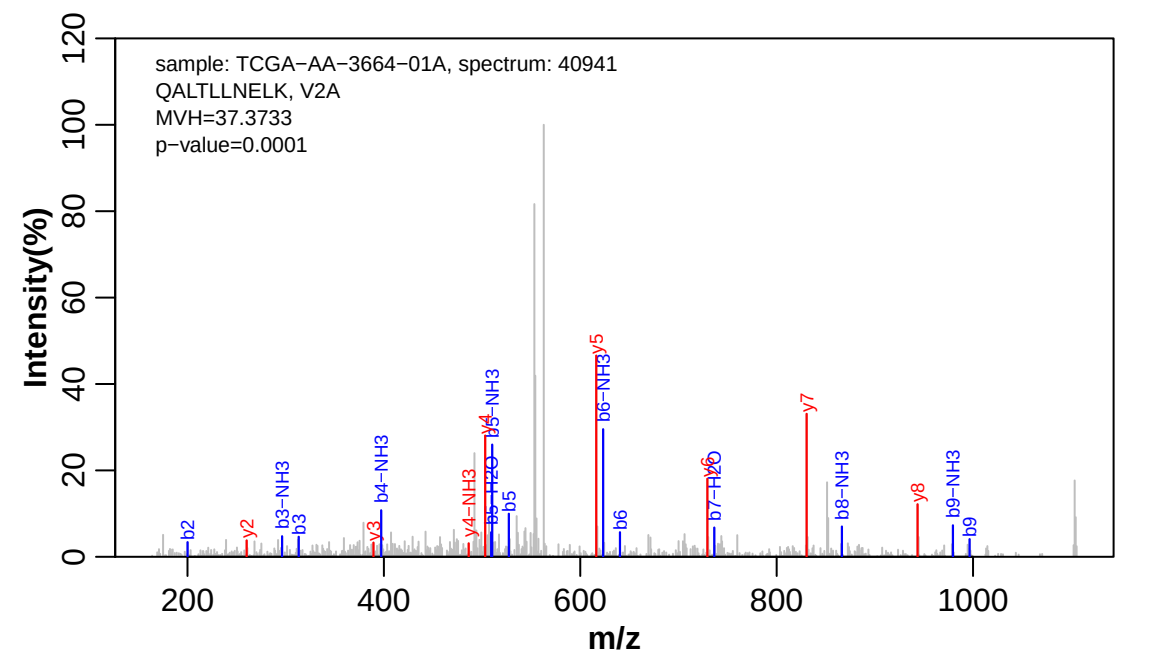

sample: TCGA−AA−3664−01A, spectrum: 58322
LTQAQLFDYSELPNFPR, G10S
MVH=41.8226
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
b6
y6
y7
y8
b9
y9
y10
b11
b12
y12
b15

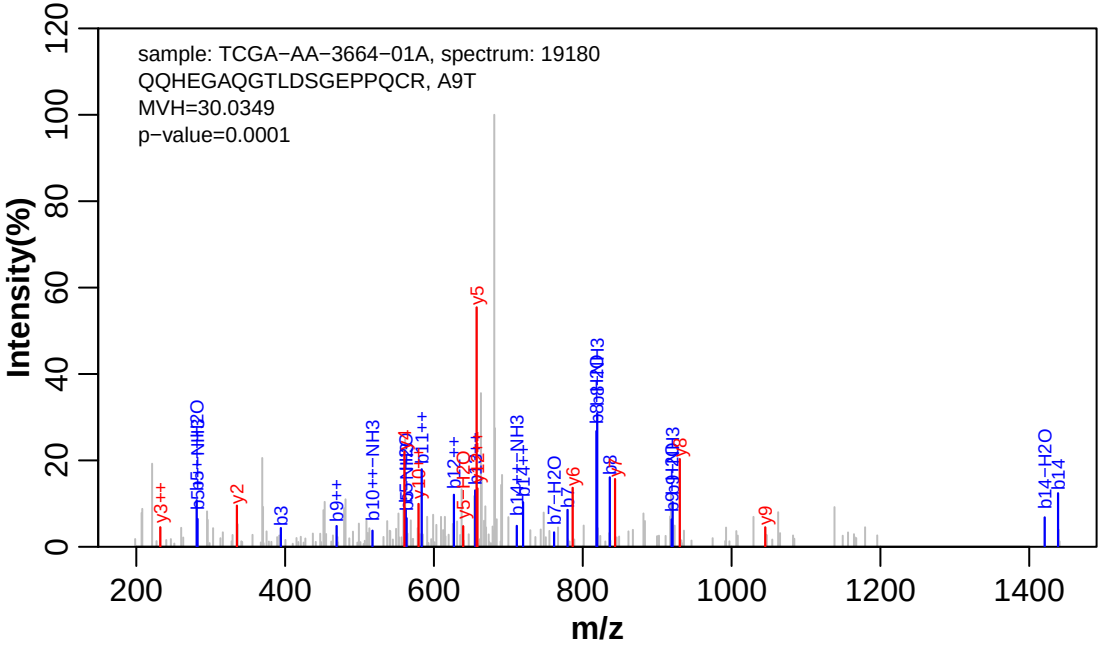

sample: TCGA−AA−3664−01A, spectrum: 21632
LTVAPPLAEPGAGK, P1L
MVH=53.5678
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−H2O
b3−H2O
b3
b4−H2O
b4
y5
y6
y7
y9
b9
y10−NH3
y10
y11

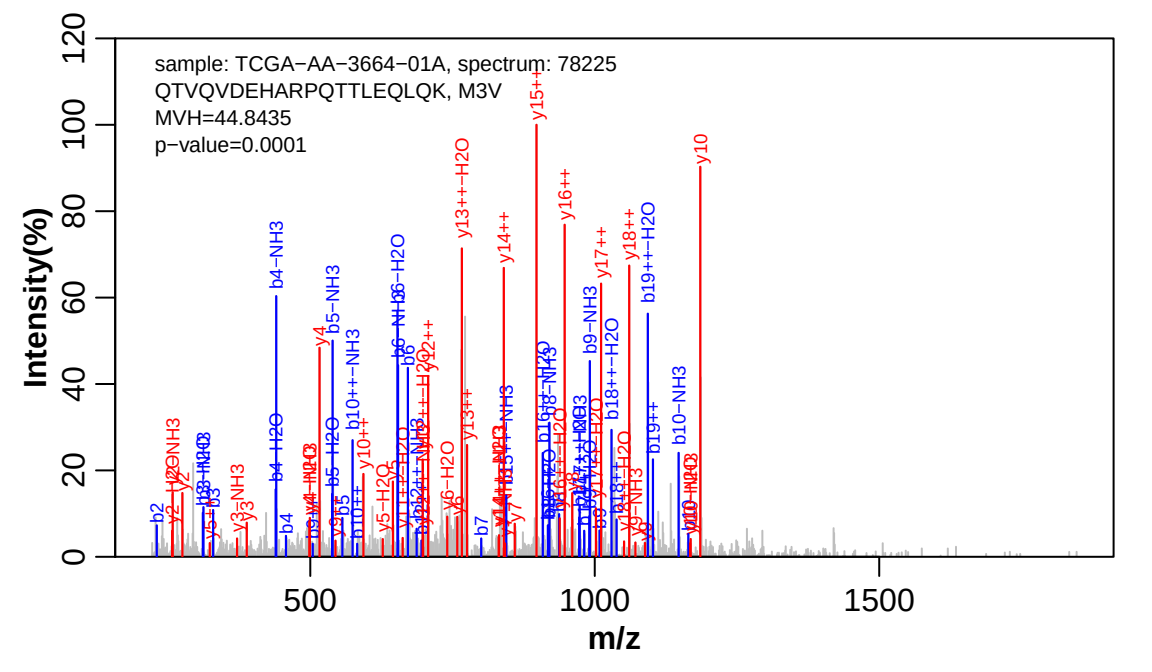

sample: TCGA−AA−3664−01A, spectrum: 65278
NLVACESLGR, V2L
MVH=41.4868
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3−NH3
y3
b4
y4
b5−NH3
y5−H2O
y6
b6
b7
y7
y8
y8−NH3
b8

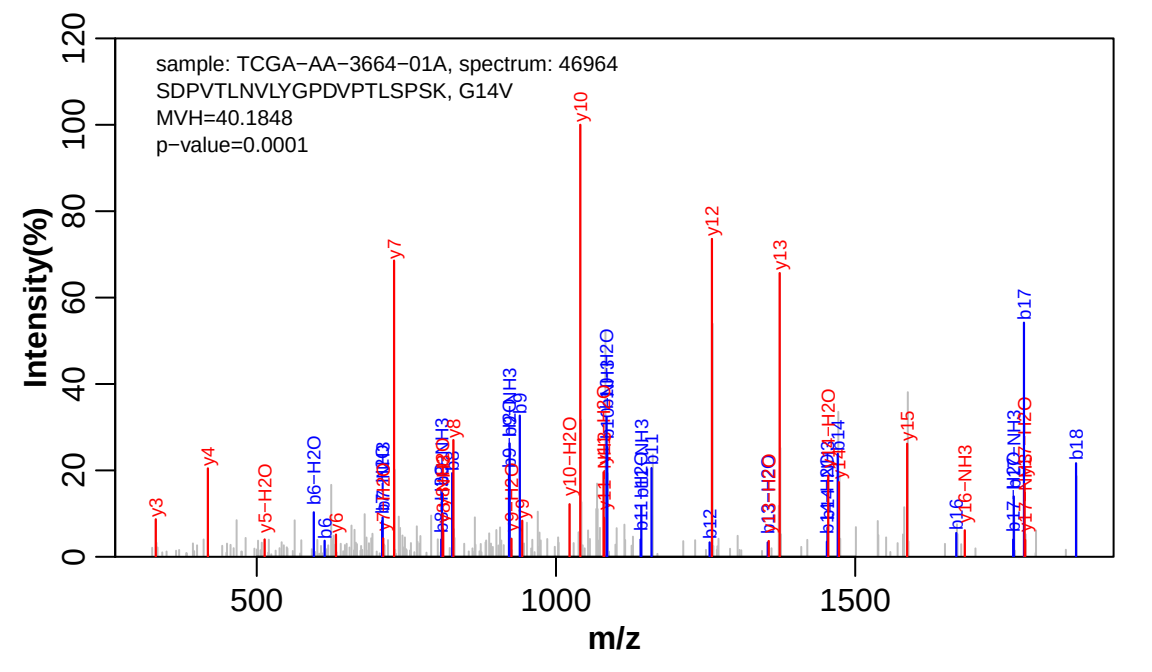

sample: TCGA−AA−3664−01A, spectrum: 49058
NTNSVPETAPAALPETR, K17R
MVH=39.4740
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b5−H2O
b5
y5
y8
y9
y12
y13
y14

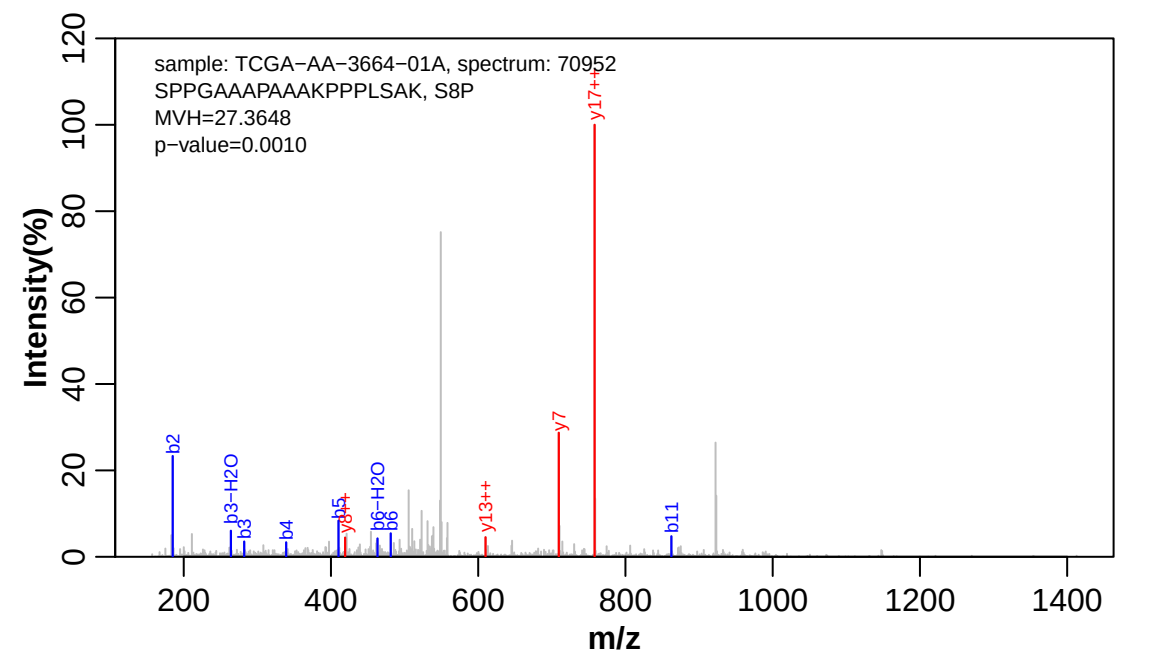

sample: TCGA−AA−3664−01A, spectrum: 31916
PVAEYWNSQK, D2V
MVH=40.4678
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
y7
y8
b9

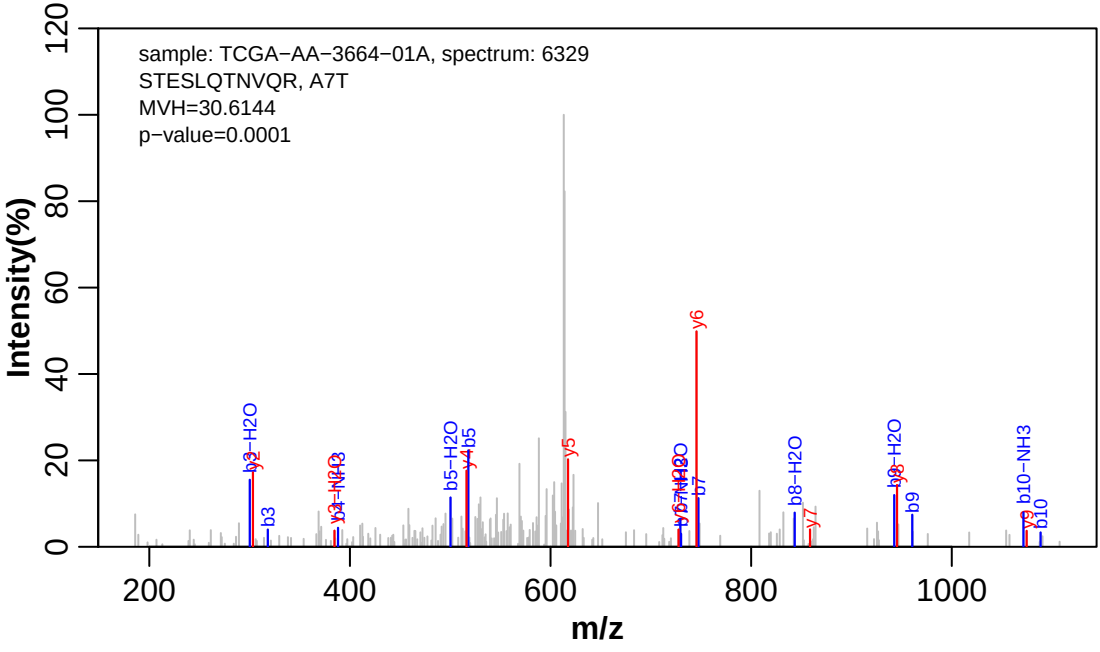

sample: TCGA−AA−3664−01A, spectrum: 40941
QALTLLNELK, V2A
MVH=37.3733
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3−NH3
b3
y3
b4−NH3
y4−NH3
b5−H2O
b5−NH3
b5
y5
b6−NH3
b6
y6
b7−H2O
y7
b8−NH3
y8
b9−NH3
b9

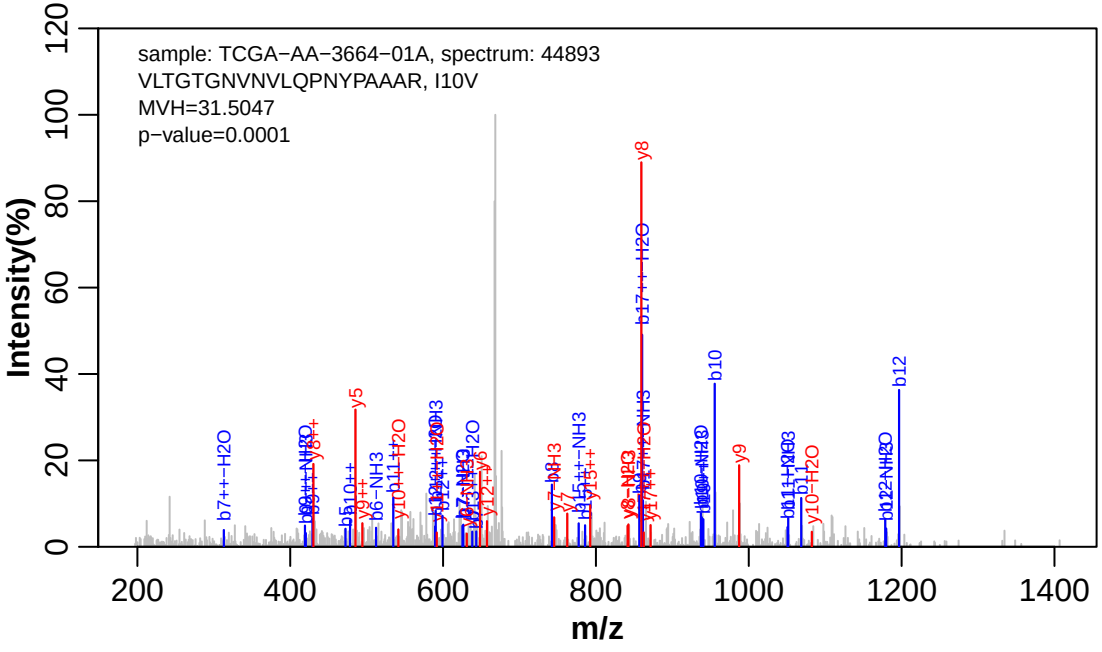

sample: TCGA−AA−3664−01A, spectrum: 19180
QQHEGAQGTLDSGEPPQCR, A9T
MVH=30.0349
p−value=0.0001
Intensity(%)
m/z
y3++
y2
b3
b9++
b10++−NH3
y5
b12++
y5−H2O
b14++−NH3
b7−H2O
y6
y8
y9
b14−H2O
b14

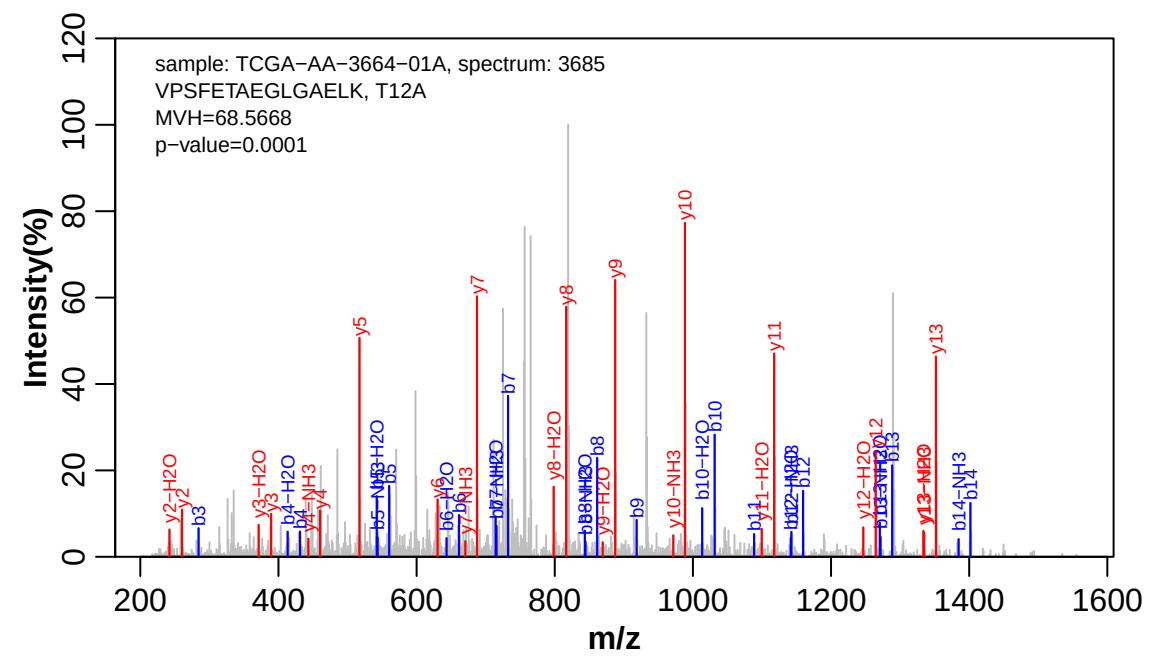

sample: TCGA−AA−3664−01A, spectrum: 78225
QTVQVDEHARPQTTLEQLQK, M3V
MVH=44.8435
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
y2−NH3
b3
y3
y3−NH3
b4
b4−NH3
b4−H2O
y4
b5
b5−NH3
b5−H2O
y5
y5−H2O
b6
b6−NH3
b6−H2O
y6
y6−H2O
b7
y7
b8
b8−NH3
b8−H2O
y8
y8−NH3
y8−H2O
b9
b9−NH3
b9−H2O
y9
y9−NH3
y9−H2O
b10
b10−NH3
b10−H2O
y10
y10−NH3
y10−H2O
b11
b11−NH3
b11−H2O
y11
y11−NH3
y11−H2O
b12
b12−NH3
b12−H2O
y12
y12−NH3
y12−H2O
b13
b13−NH3
b13−H2O
y13
y13−NH3
y13−H2O
b14
b14−NH3
b14−H2O
y14
y14−NH3
y14−H2O
b15
b15−NH3
b15−H2O
y15
y15−NH3
y15−H2O
b16
b16−NH3
b16−H2O
y16
y16−NH3
y16−H2O
b17
b17−NH3
b17−H2O
y17
y17−NH3
y17−H2O
b18
b18−NH3
b18−H2O
y18
y18−NH3
y18−H2O
b19
b19−NH3
b19−H2O
y19
y19−NH3
y19−H2O
b20
b20−NH3
b20−H2O
y20
y20−NH3
y20−H2O
b21
b21−NH3
b21−H2O
y21
y21−NH3
y21−H2O
b22
b22−NH3
b22−H2O
y22
y22−NH3
y22−H2O

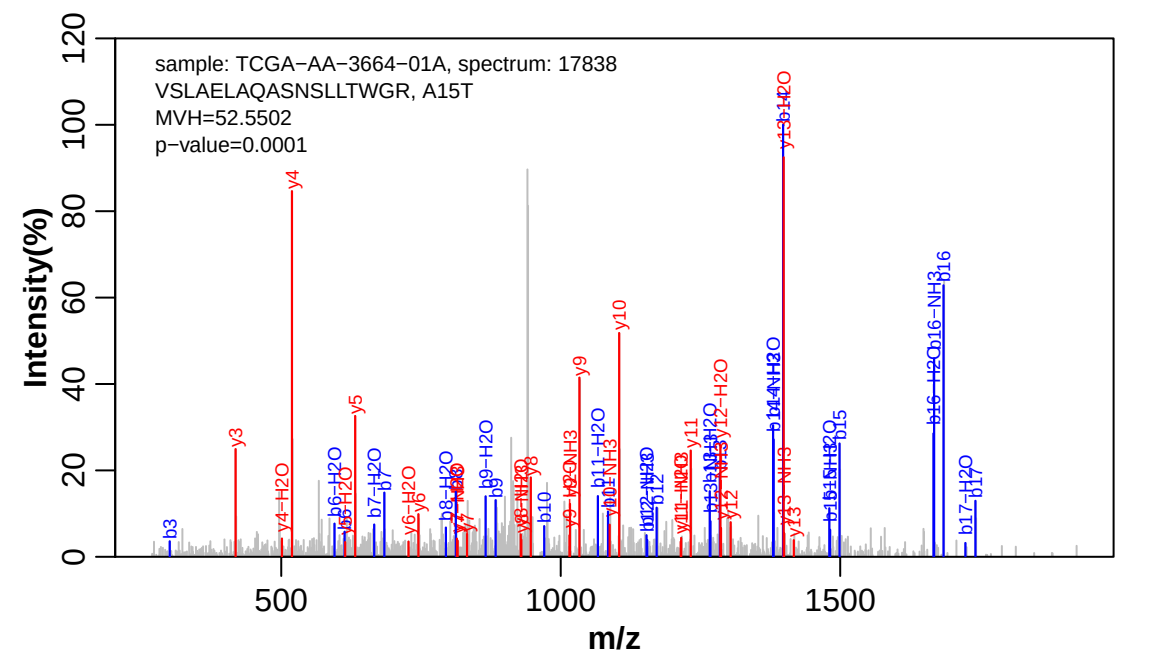

sample: TCGA−AA−3664−01A, spectrum: 46964
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=40.1848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5−H2O
b6−H2O
b6
y6
y7
y8
y9
b9
b9−NH3
y10
y10−H2O
b11
b11−NH3
y12
b12
y13
b13−H2O
y14
y15
b16
y16−NH3
b17
b18

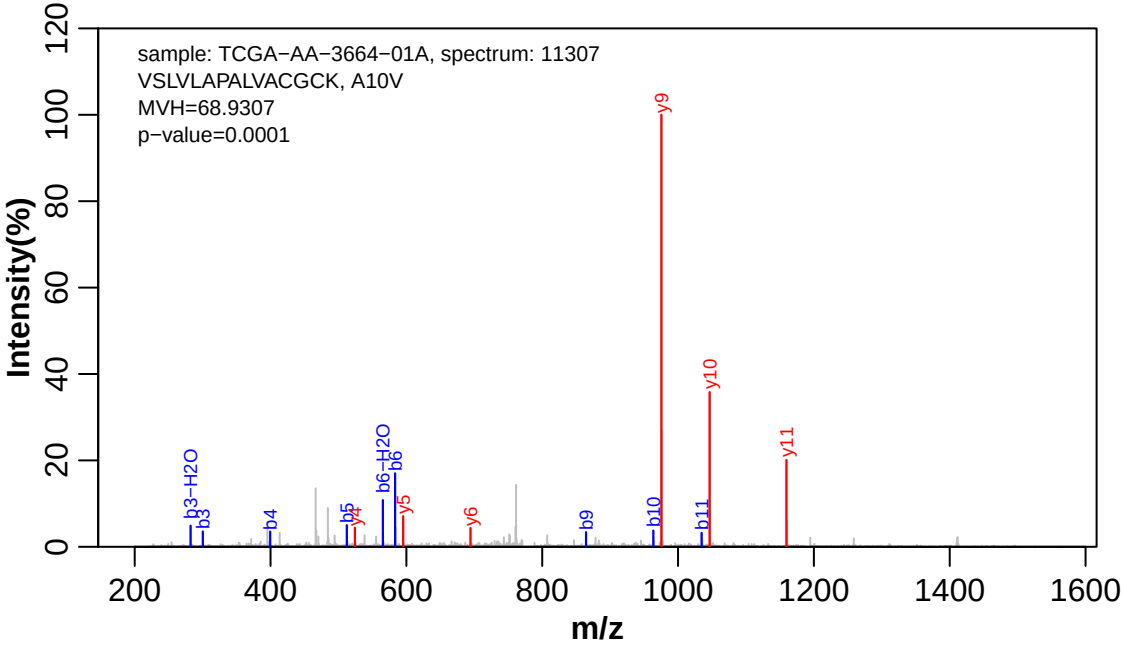

sample: TCGA−AA−3664−01A, spectrum: 70952
SPPGAAAPAAAKPPPLSAK, S8P
MVH=27.3648
p−value=0.0010
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b3
b4
y5++
b5
b6−H2O
b6
y13++
y7
y17++
b11

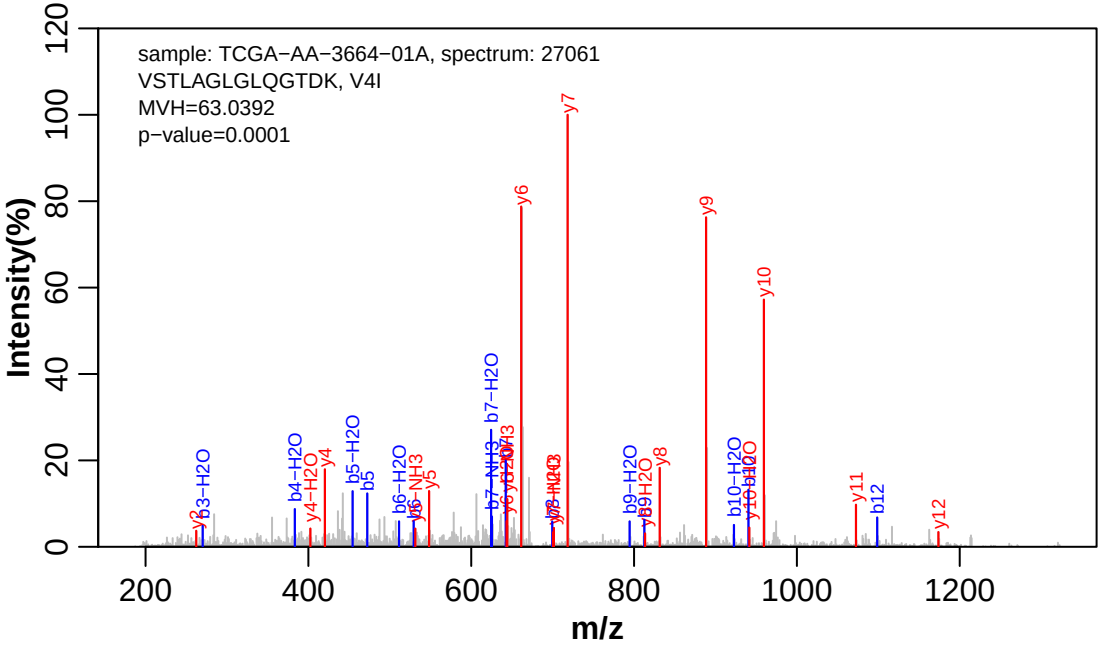

sample: TCGA−AA−3664−01A, spectrum: 6329
STESLQTNVQR, A7T
MVH=30.6144
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3−H2O
b3
b3−NH3
b5−H2O
y4
b5
y5
y6
b7
b8−H2O
y7
b8−H2O
b9
b10−NH3
y9
b10

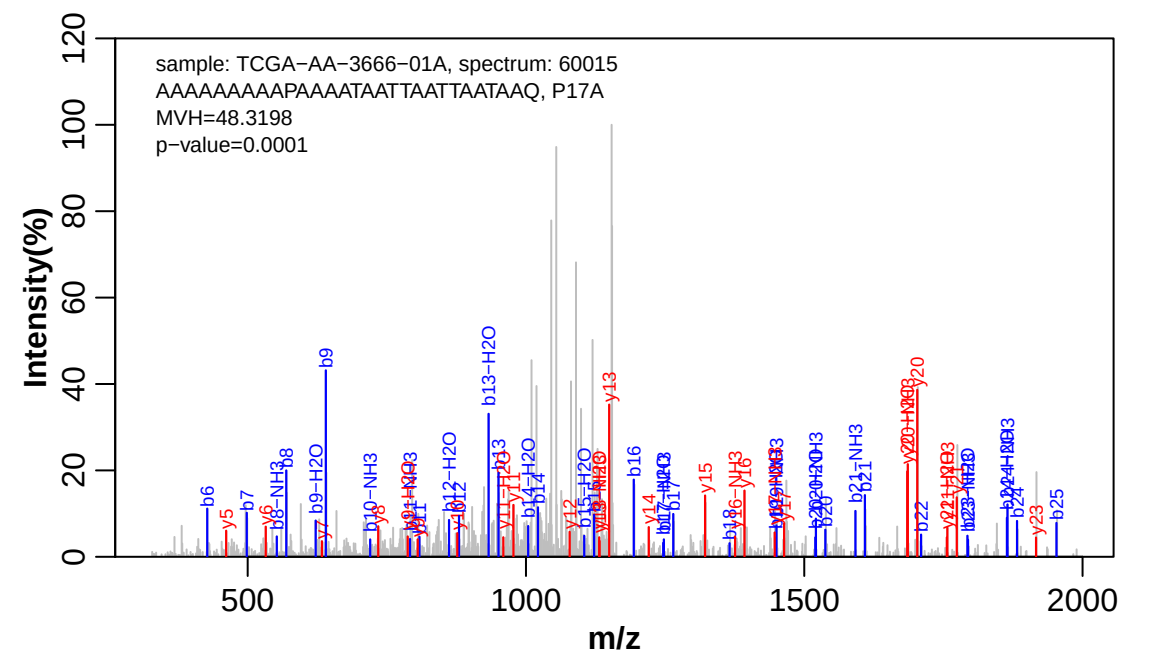

sample: TCGA−AA−3664−01A, spectrum: 44893
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=31.5047
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7++−H2O
y5
b6−NH3
y10++H2O
b10++
y9++
y8
b17++ H2O
b10
y9
b12
y10−H2O
b11
y7−NH3
y8−NH3
b15++−NH3
y13++
y12−y6
b12−NH3
b12−H2O

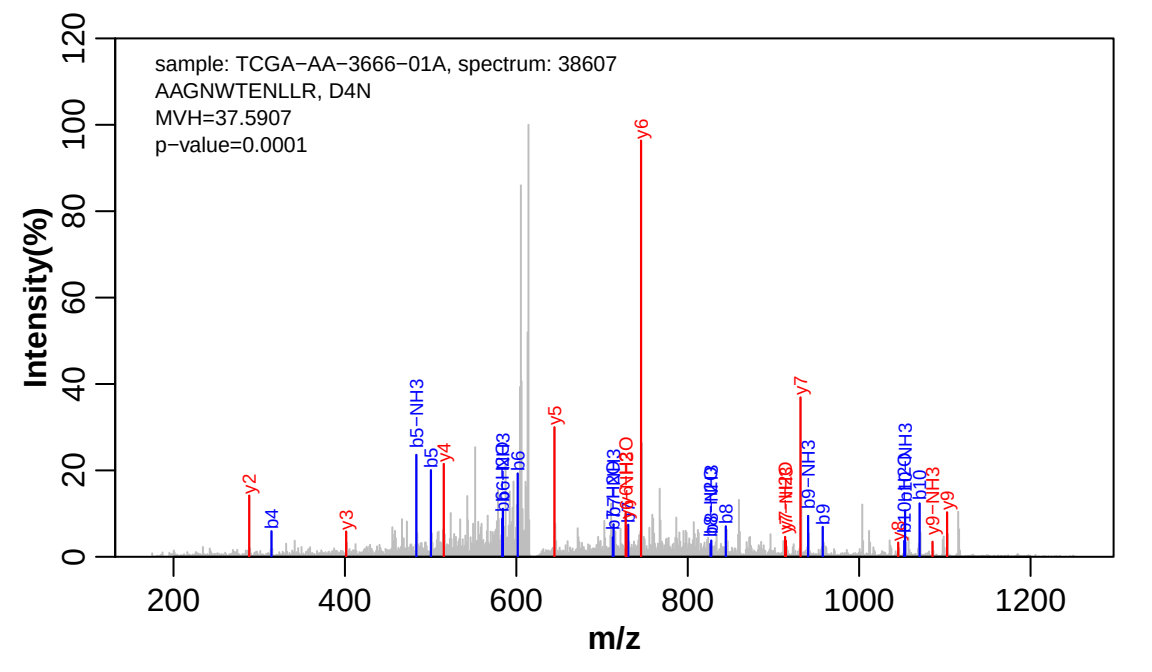

sample: TCGA−AA−3664−01A, spectrum: 3685
VPSFETAEGLGAELK, T12A
MVH=68.5668
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y7
y5
y11
y13
b10
b14
b7
b5
b3
y2
y3
y4
y6
b4
b6
b8
b9
b11
b12
y12
y2−H2O
y3−H2O
b4−H2O
y4−NH3
b5−NH3−H2O
y8−H2O
y9−H2O
y10−NH3
b10−H2O
y11−H2O
y12−H2O
b14−NH3

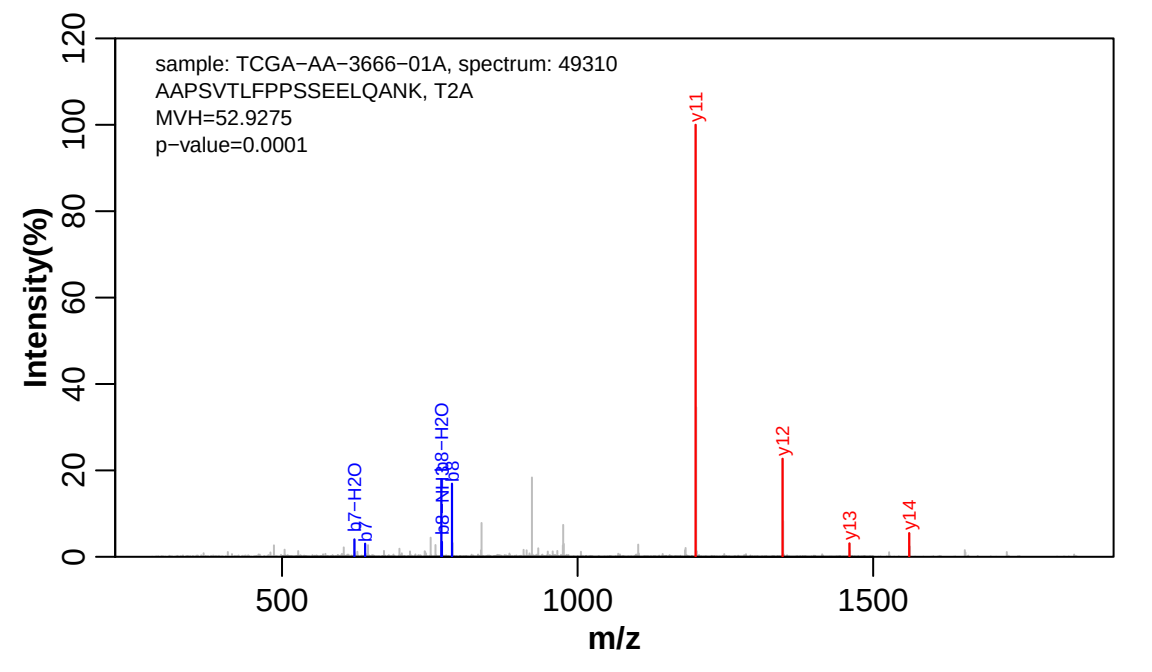

sample: TCGA−AA−3664−01A, spectrum: 17838
VSLAELAQASNSLLTWGR, A15T
MVH=52.5502
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
y3
y4−H2O
y5
b6−H2O
b7−H2O
b7
y6
y6−H2O
b8−H2O
b9
b9−H2O
y8
b10
y9
y9−NH3
b11−H2O
y10
y10−NH3
y11
y12
y12−H2O
y13
y13−NH3
b14−NH3−H2O
b15
b16−H2O
b16−NH3
b16
b17−H2O
b17

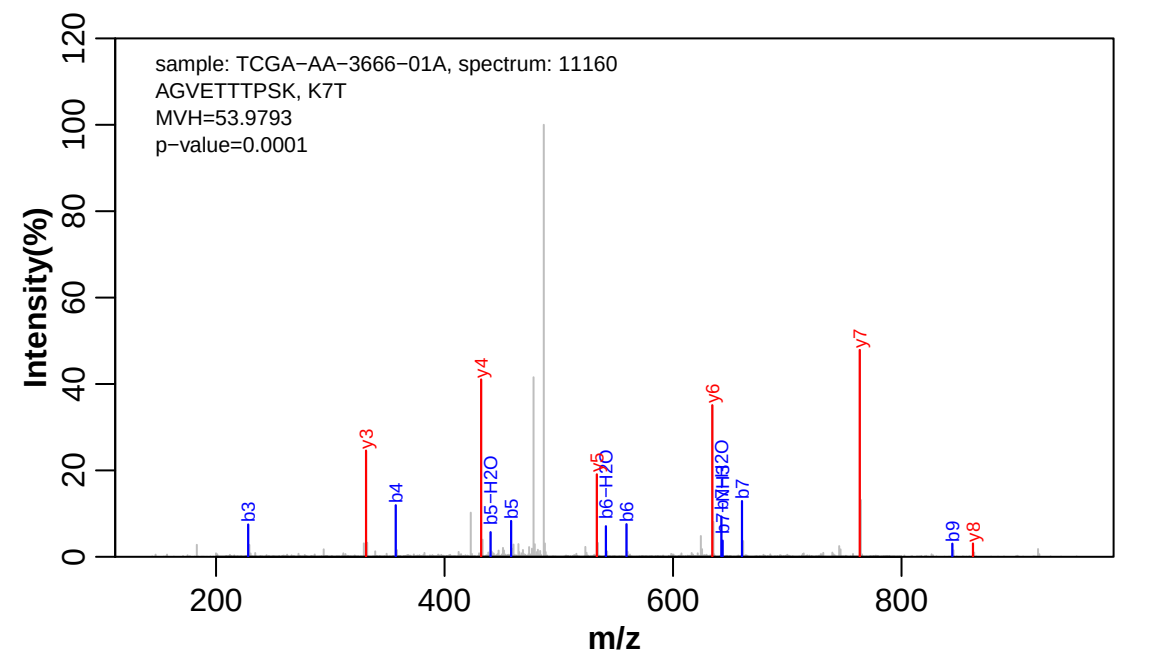

sample: TCGA−AA−3664−01A, spectrum: 11307
VSLVLAPALVACGCK, A10V
MVH=68.9307
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4
b5
y4
b6−H2O
b6
y5
y6
b9
b10
b11
y9
y10
y11

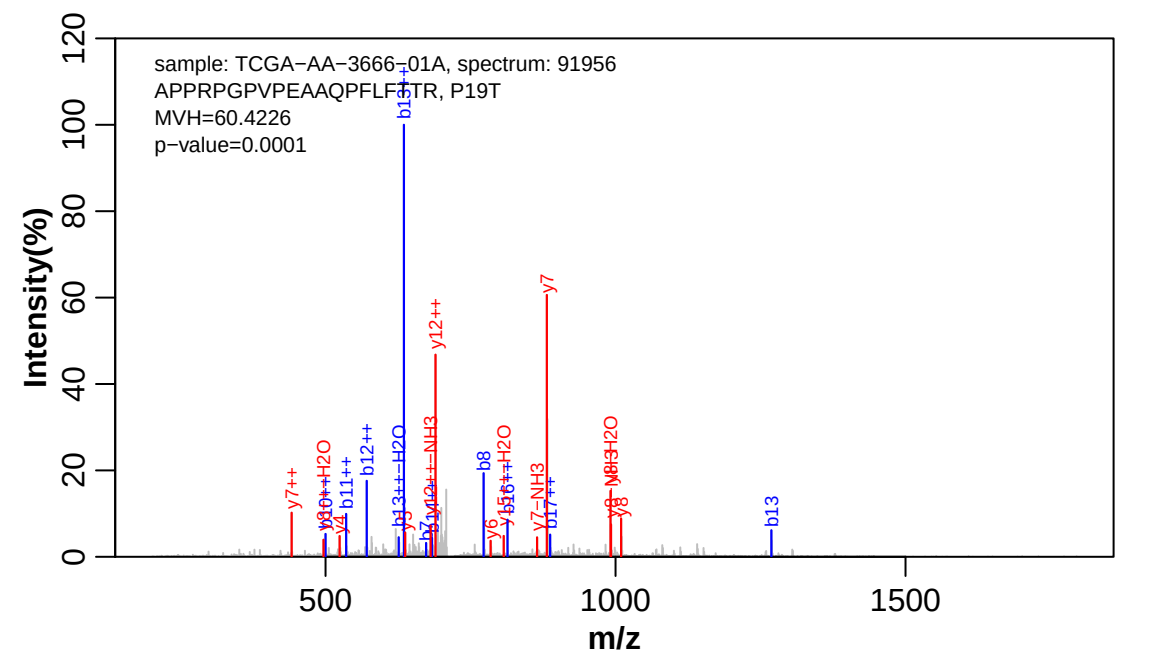

sample: TCGA−AA−3664−01A, spectrum: 27061
VSTLAGLGLQGTDK, V4I
MVH=63.0392
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y7
y6
y9
y10
y8
y11
b12
y12
b7−H2O
b4−H2O
y4−H2O
b5−H2O
b5
b6−H2O
b6−NH3
y5
b7−NH3
b9−H2O
b10−H2O
y2
b3−H2O

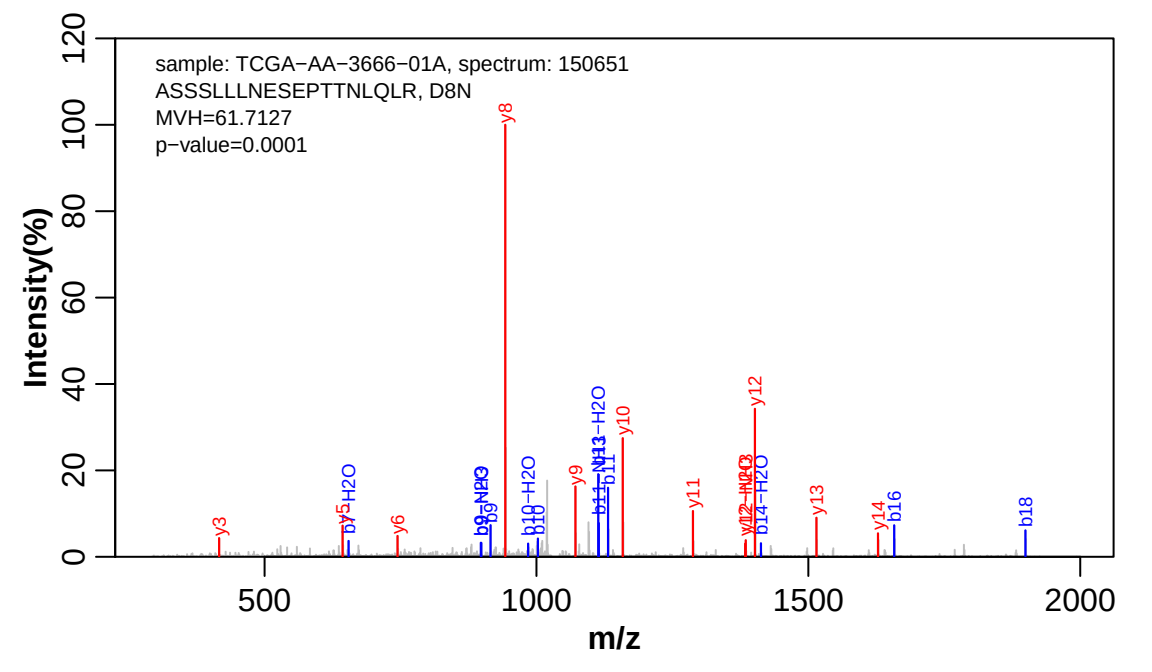

sample: TCGA−AA−3666−01A, spectrum: 60015
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=48.3198
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

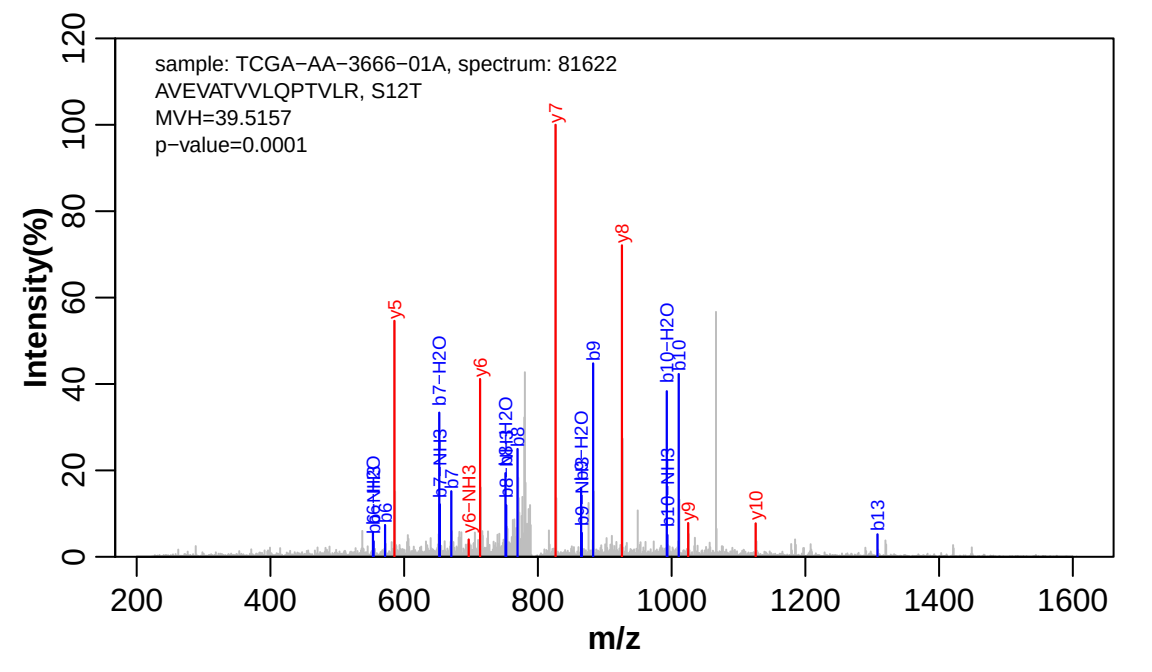

sample: TCGA−AA−3666−01A, spectrum: 38607
AAGNWTENLLR, D4N
MVH=37.5907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y7
y2
b4
y3
b5−NH3
b5
y4
b6
b9−NH3
b9
b8
b10
y9−NH3
y9

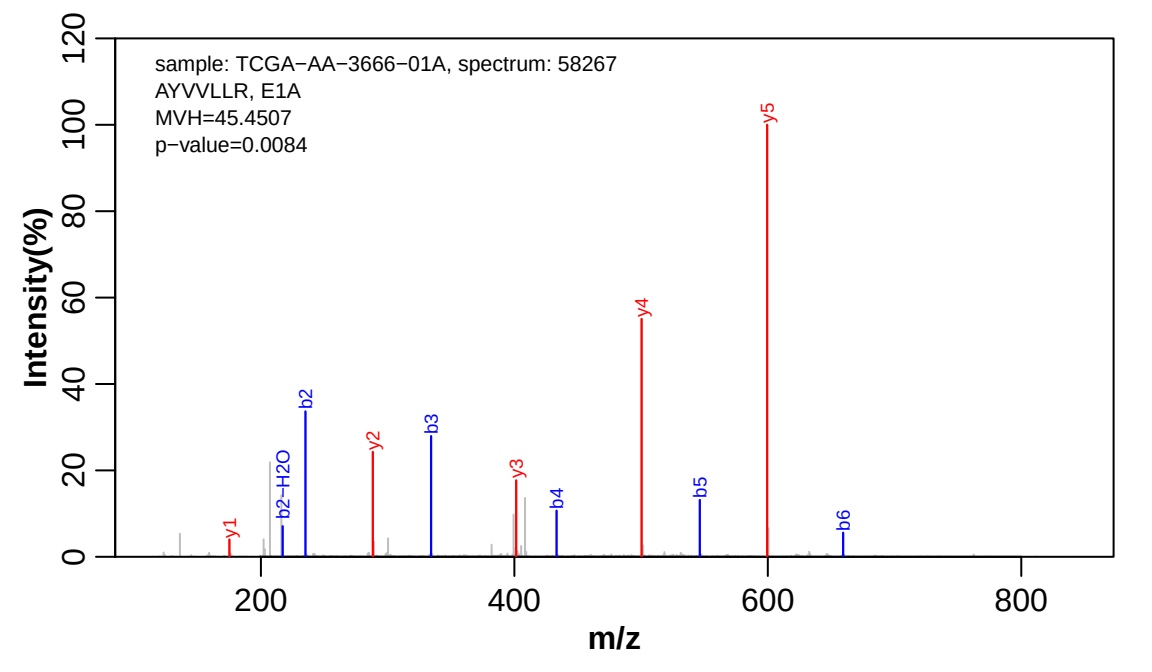

sample: TCGA−AA−3666−01A, spectrum: 49310
AAPSVTLFPPSSEELQANK, T2A
MVH=52.9275
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

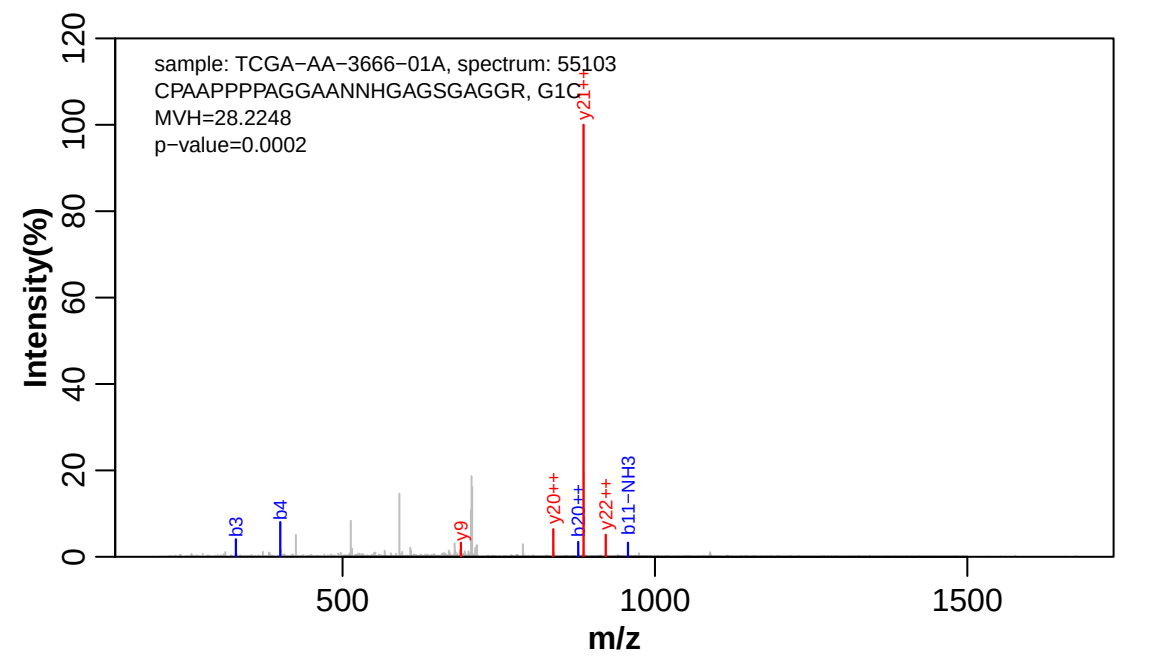

sample: TCGA−AA−3666−01A, spectrum: 11160
AGVETTTPSK, K7T
MVH=53.9793
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
b9
y8

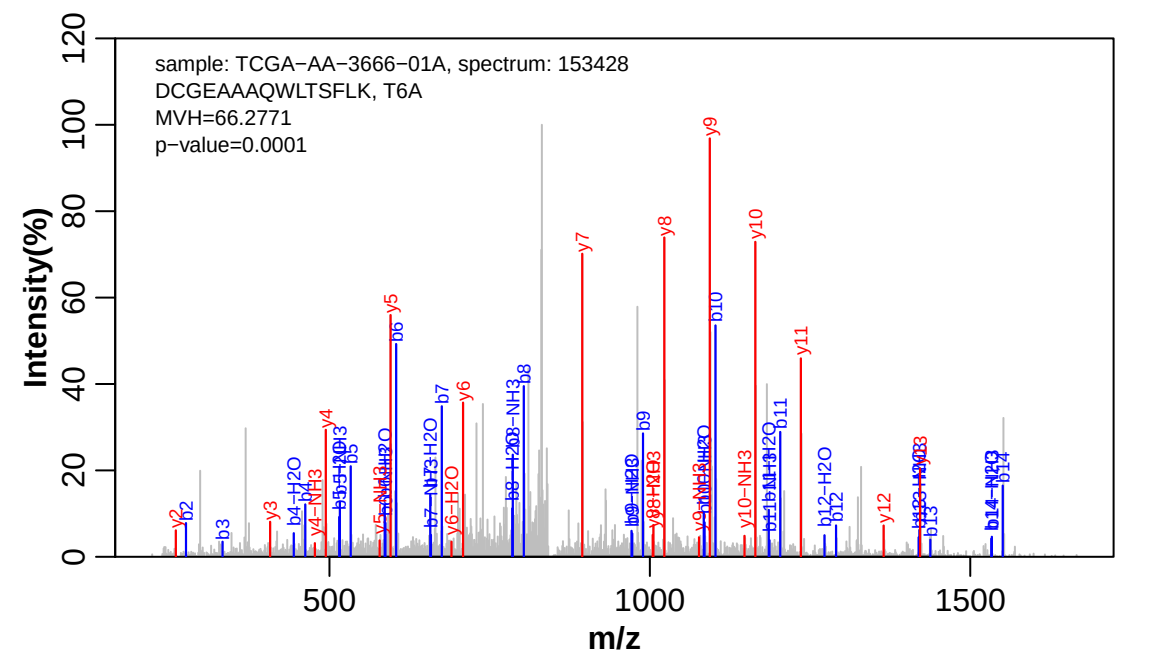

sample: TCGA−AA−3666−01A, spectrum: 91956
APPRPGPVPEAAQPFLFSTR, P19T
MVH=60.4226
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
y10++H2O
y4
b11++
b12++
b13++−H2O
y9
b7++−NH3
b13++
y12++
b8
y6
y15++H2O
y7−NH3
b17++
y7
y8−NH3−H2O
y8
b13

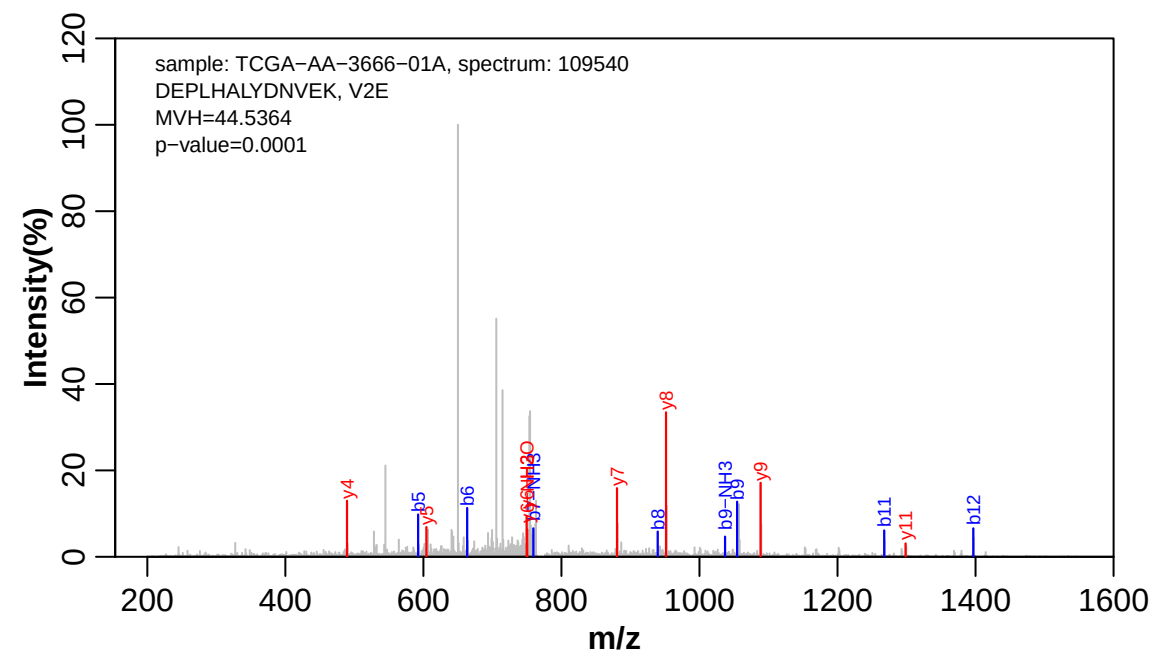

sample: TCGA−AA−3666−01A, spectrum: 150651
ASSSLLLNESEPTTNLQLR, D8N
MVH=61.7127
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y5
b7−H2O
y6
b9−NH3
b9
b10−H2O
b10
y8
y9
b11−NH3
b11−H2O
b11
y10
y11
y12−H2O
y12−NH3
y12
b14−H2O
y13
y14
b16
b18

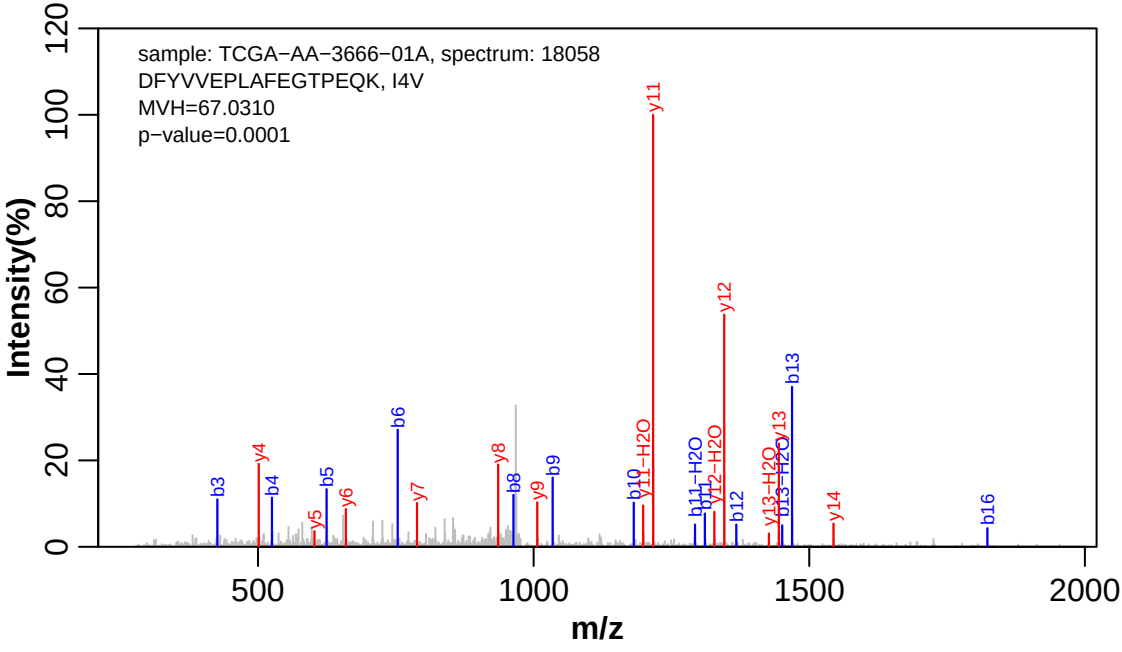

sample: TCGA−AA−3666−01A, spectrum: 81622
AVEVATVVLQPTVLR, S12T
MVH=39.5157
p−value=0.0001
Intensity(%)
m/z
y7
y8
y5
y6
b7−H2O
b7−NH3
b7
y6−NH3
b9
b10−H2O
b10
b10−NH3
y9
y10
b13

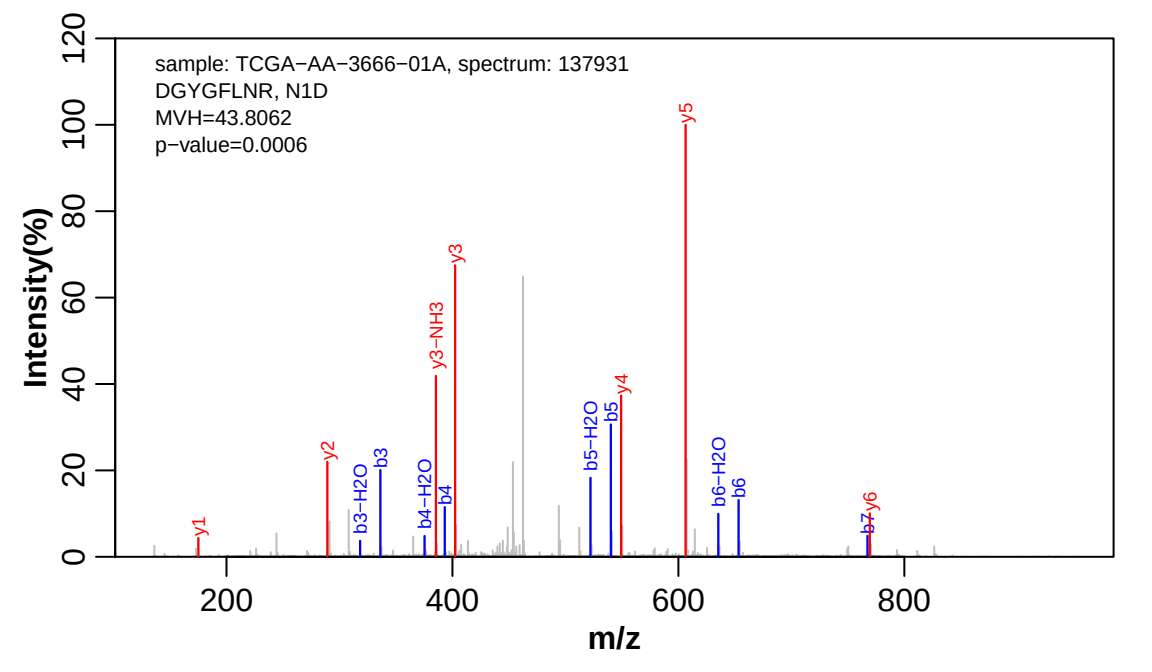

sample: TCGA−AA−3666−01A, spectrum: 58267
AYVVLLR, E1A
MVH=45.4507
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

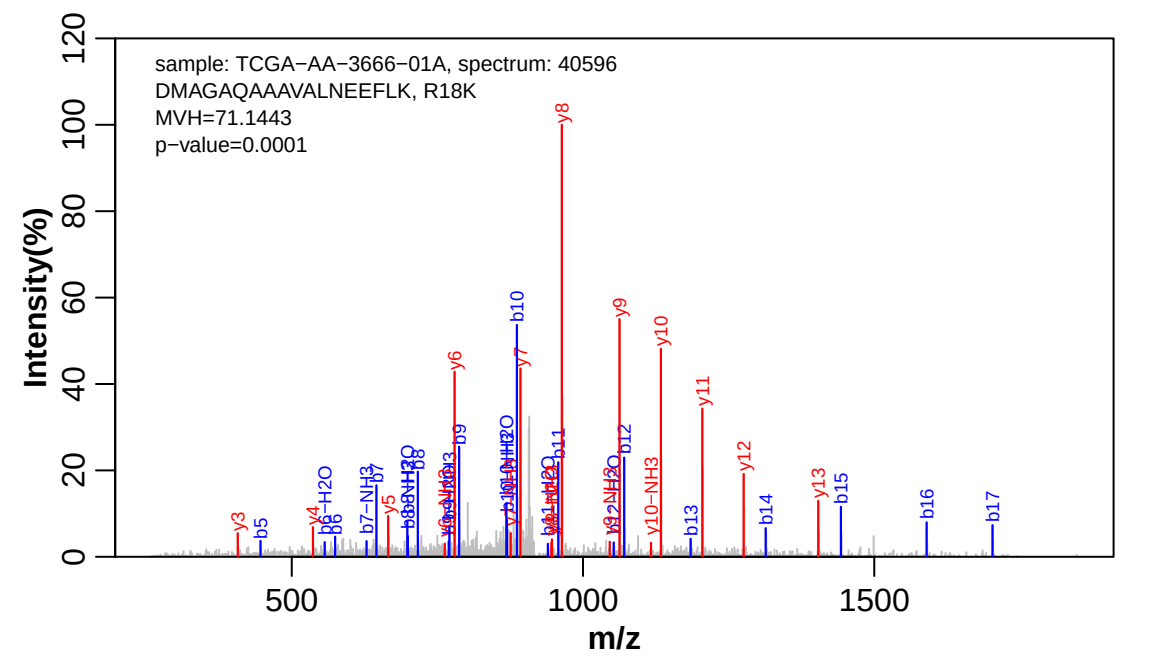

sample: TCGA−AA−3666−01A, spectrum: 55103
CPAAPPPPAGGAANNHGAGSGAGGR, G1C1
MVH=28.2248
p−value=0.0002
y21++
b3
b4
y9
y20++
b20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

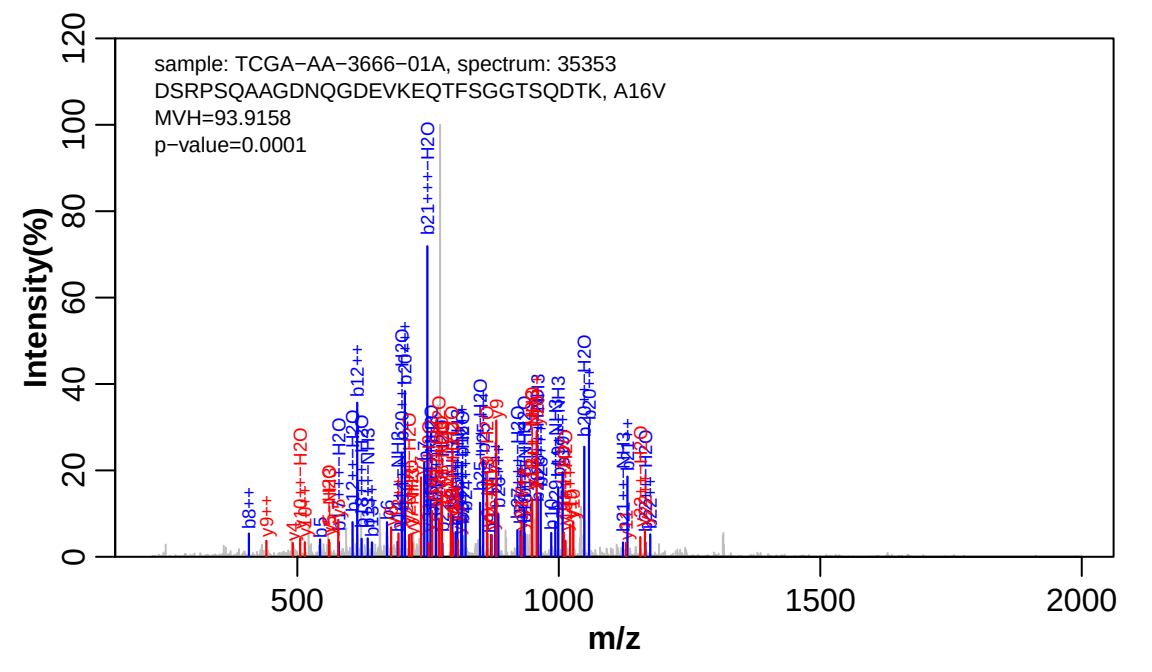

sample: TCGA−AA−3666−01A, spectrum: 153428
DCGEAAAQWLTSFLK, T6A
MVH=66.2771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b2
b3
y3
b4−H2O
b4
y4−NH3
y4
b5
y5
b6
y6
b7
b8
y7
y8
b9
y9
b10
y10
y11
b11
b12−H2O
b12
y12
b13
b14

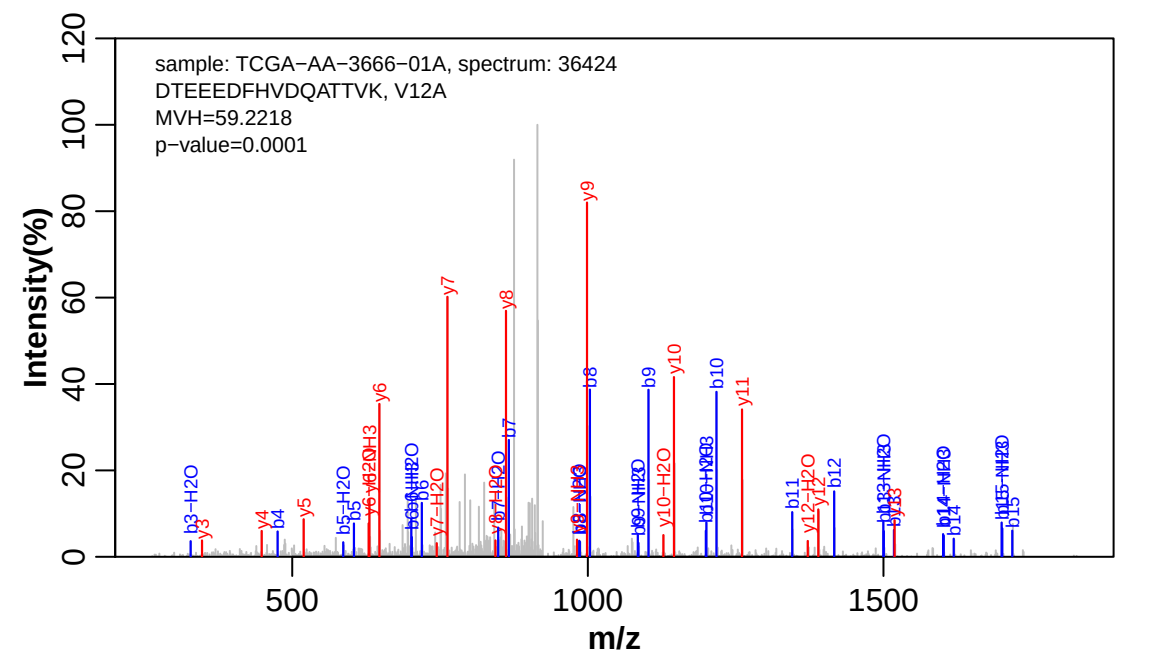

sample: TCGA−AA−3666−01A, spectrum: 109540
DEPLHALYDNVEK, V2E
MVH=44.5364
p−value=0.0001
Intensity(%)
m/z
y4
b5
y5
b6
y7
y8
b8
b9−NH3
b9
y9
b11
y11
b12

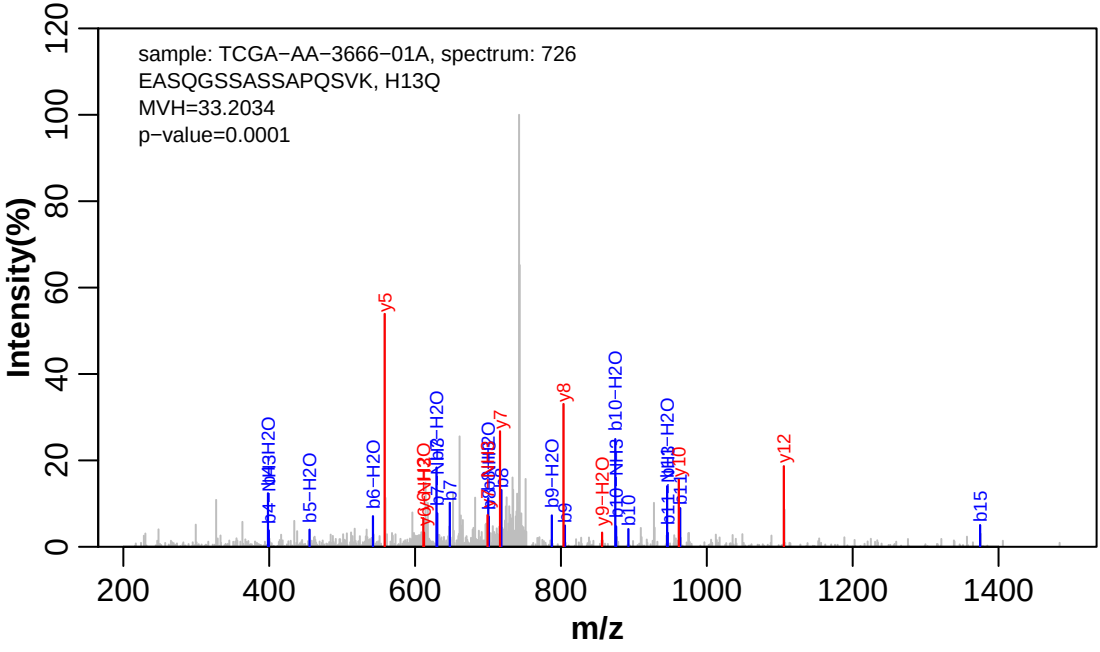

sample: TCGA−AA−3666−01A, spectrum: 18058
DFYVVEPLAFEGTPEQK, I4V
MVH=67.0310
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3
y4
b4
b5
y5
y6
b6
y7
y8
b8
y9
b9
b10
y11−H2O
y11
b11−H2O
b11
y12−H2O
y12
b12
y13−H2O
y13
b13−H2O
b13
y14
b16

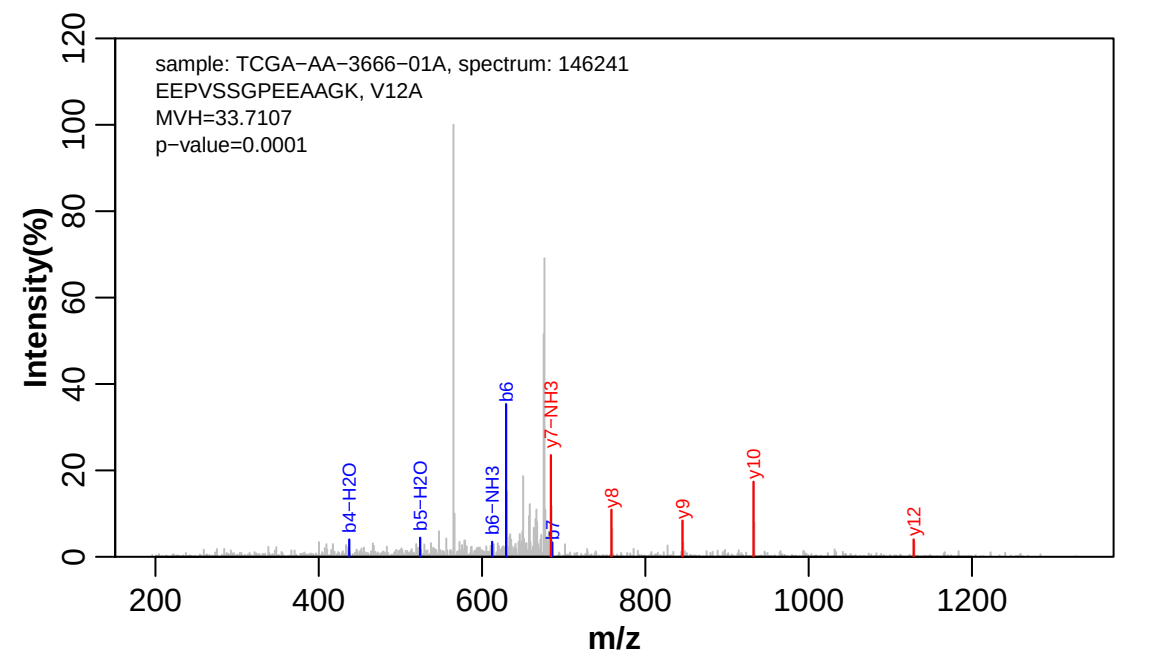

sample: TCGA−AA−3666−01A, spectrum: 137931
DGYGFLNR, N1D
MVH=43.8062
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

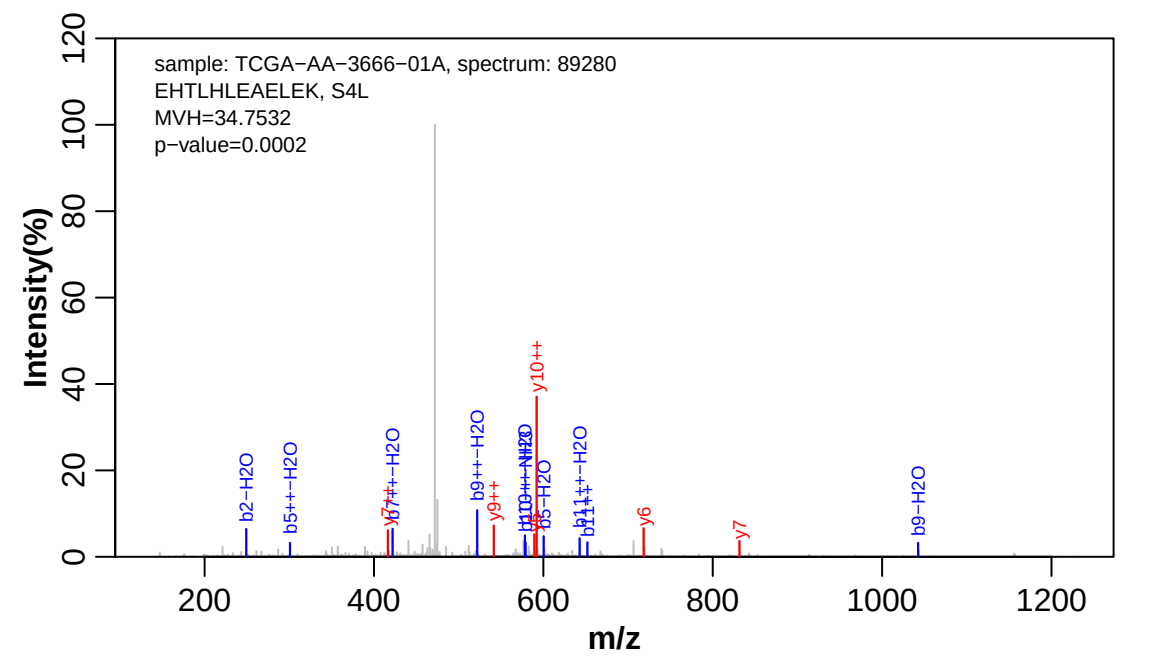

sample: TCGA−AA−3666−01A, spectrum: 40596
DMAGAQAAAVALNEEFLK, R18K
MVH=71.1443
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y8
y9
y10
y11
y12
y13
y6
y5
y4
y3
b10
b15
b16
b17
b14
b13
b12
b11
b9
b7
b6
b5
b7−NH3
b6−H2O
y10−NH3

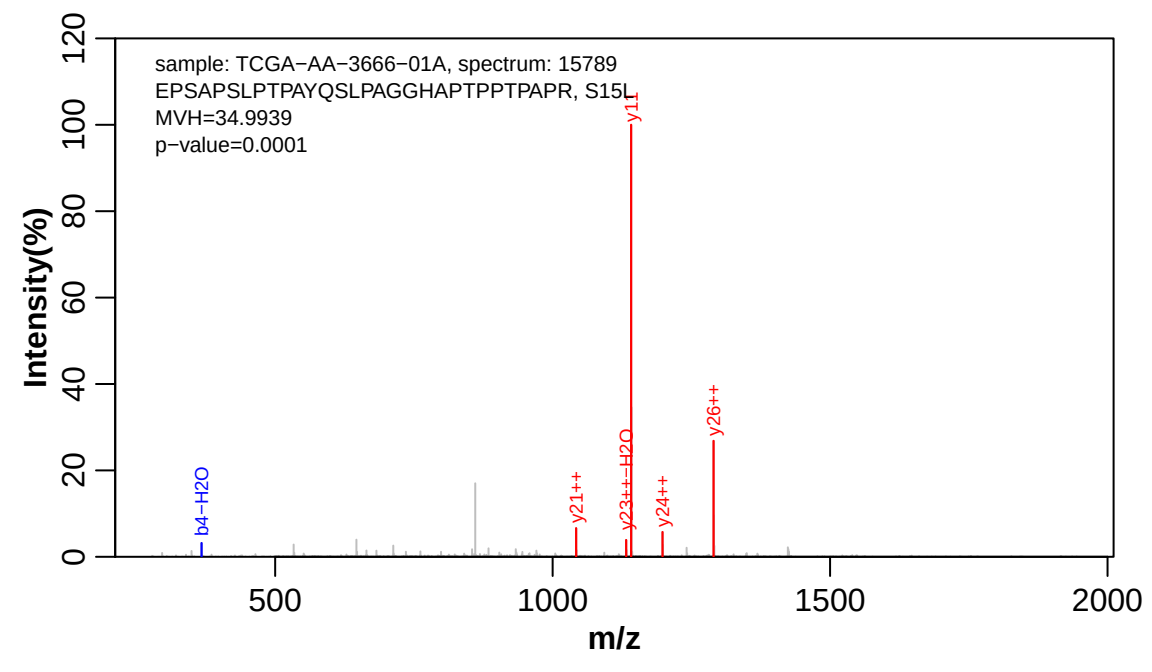

sample: TCGA−AA−3666−01A, spectrum: 35353
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=93.9158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21+++−H2O
b8++
y9++
b12++
b20++−H2O
y9
b20++
b21++−NH3
y22++−H2O

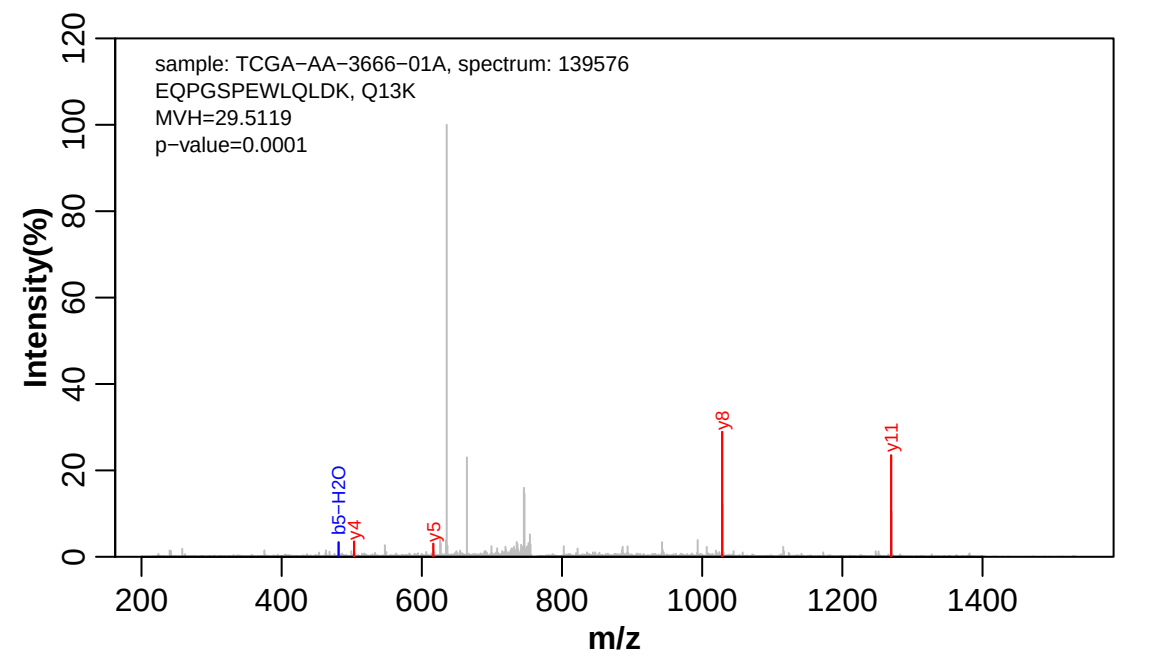

sample: TCGA−AA−3666−01A, spectrum: 36424
DTEEEDFHVDQATTVK, V12A
MVH=59.2218
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y8
y7
y6
y5
y4
y3
y10
y11
y12
b3−H2O
b4
b5−H2O
b6
b7
b8
b9
b10
b11
b12
y7−H2O
y10−H2O
y12−H2O

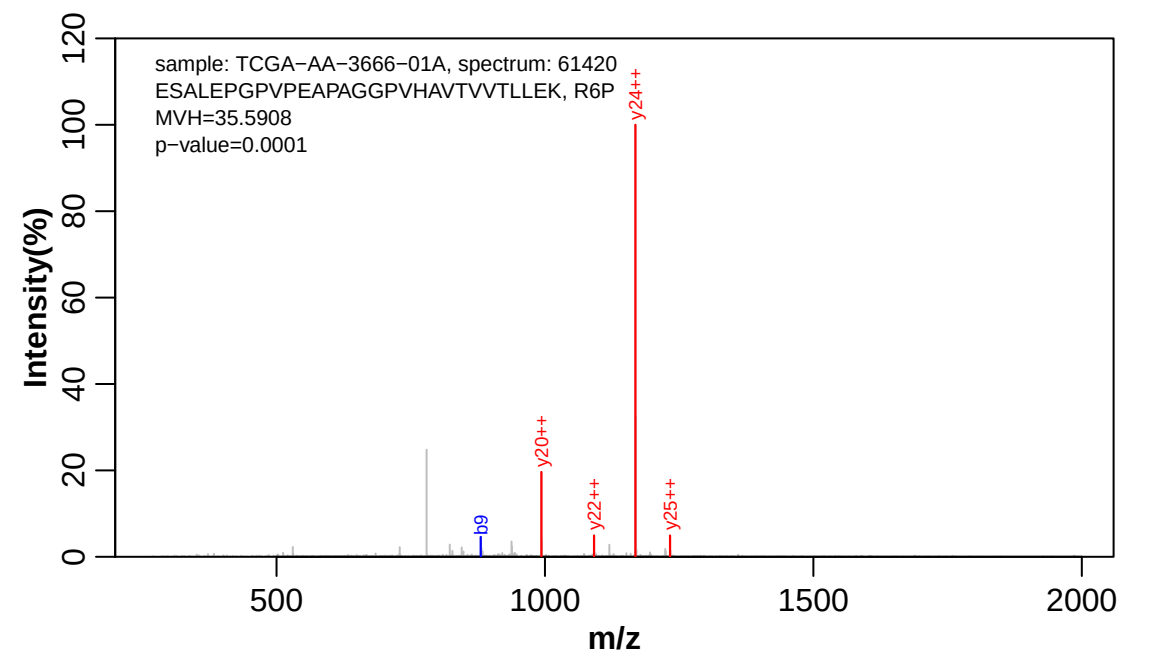

sample: TCGA−AA−3666−01A, spectrum: 726
EASQGSSASSAPQSVK, H13Q
MVH=33.2034
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y7
y12
b15
b6−H2O
b5−H2O
b9−H2O
b10−H2O
y9−H2O
b10−NH3
b4−NH3−H2O
b11−H2O
b11−NH3
y10
b7
b8

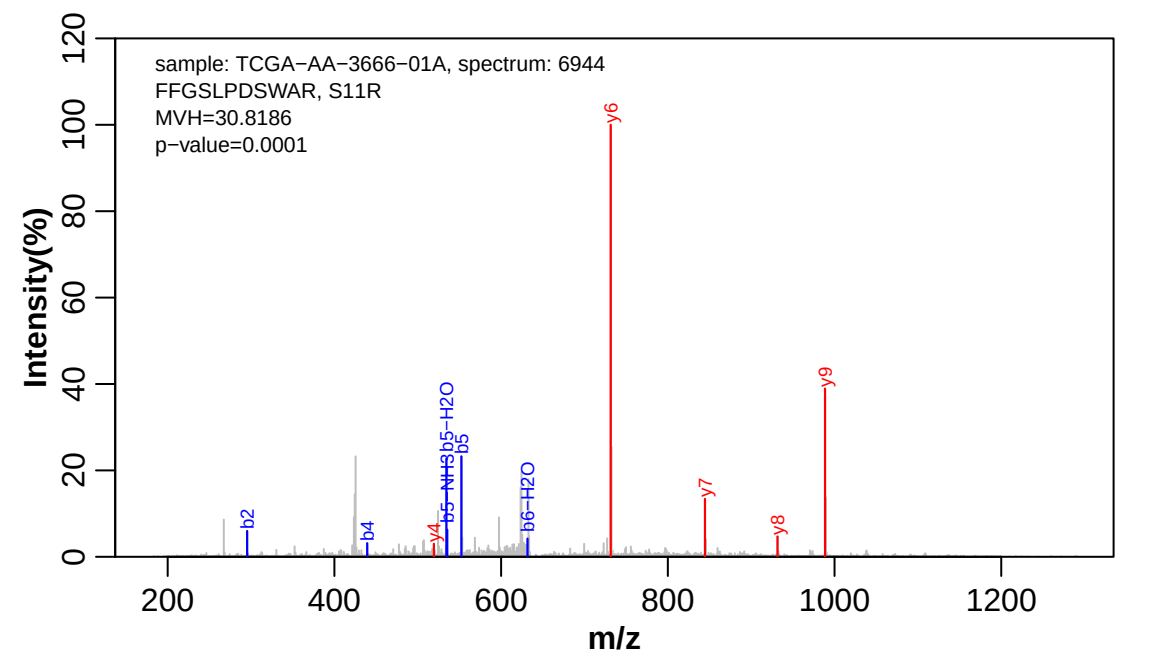

sample: TCGA−AA−3666−01A, spectrum: 146241
EEPVSSGPEEAAGK, V12A
MVH=33.7107
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b4−H2O
b5−H2O
b6−NH3
b6
y7−NH3
b7
y8
y9
y10
y12

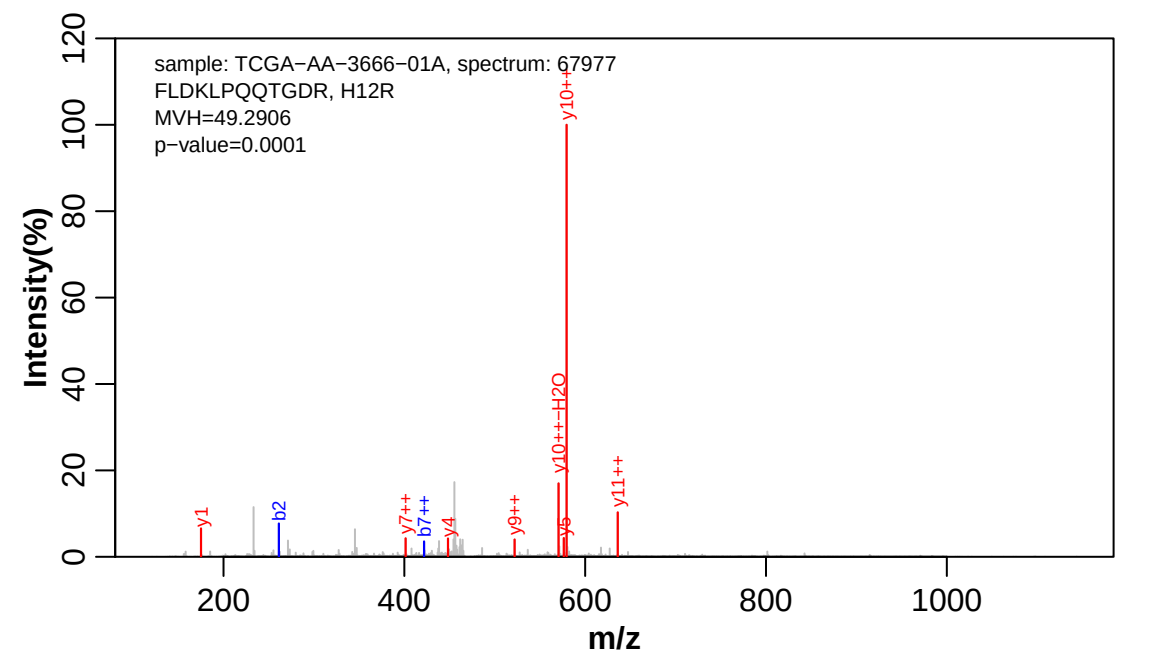

sample: TCGA−AA−3666−01A, spectrum: 89280
EHTLHLEAELEK, S4L
MVH=34.7532
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b5++−H2O
y7++
y7++−H2O
b9++−H2O
y9++
y10++
b5−H2O
b11++−H2O
y6
y7
b9−H2O

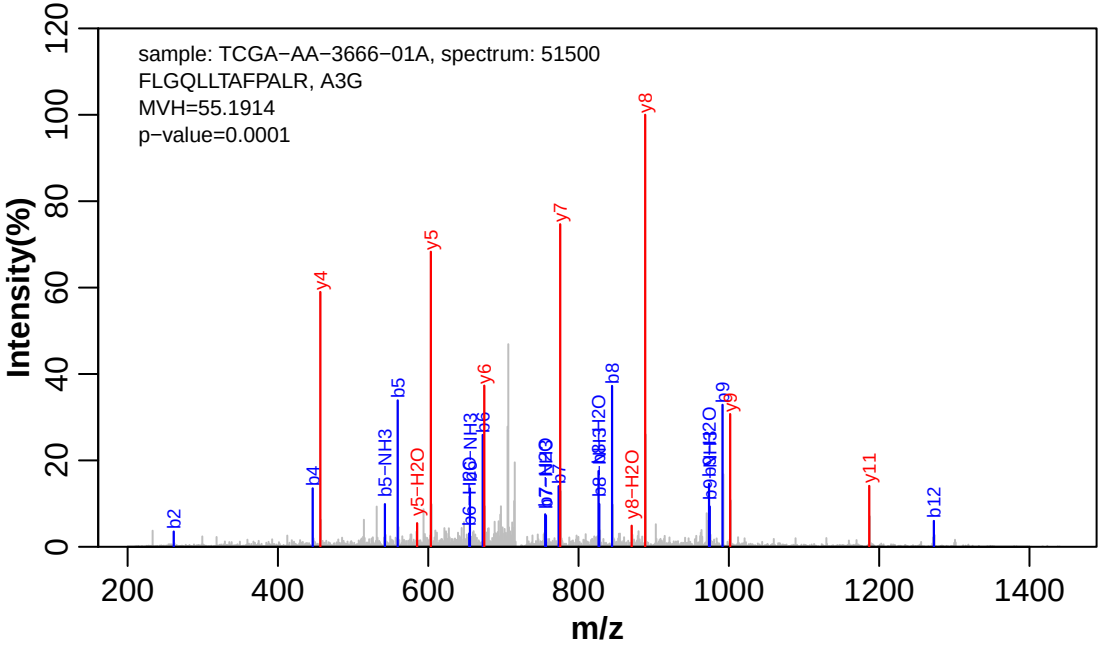

sample: TCGA−AA−3666−01A, spectrum: 15789
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=34.9939
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b4−H2O
y21++
y23++−H2O
y24++
y26++
y1+

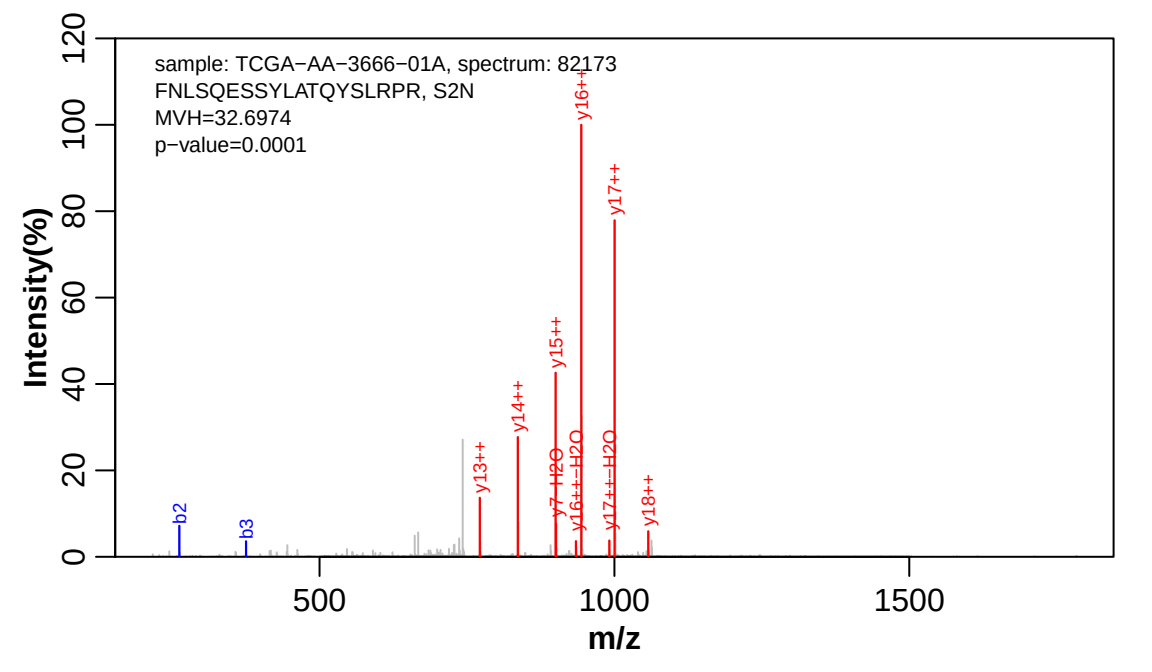

sample: TCGA−AA−3666−01A, spectrum: 139576
EQPGSPEWLQLDK, Q13K
MVH=29.5119
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

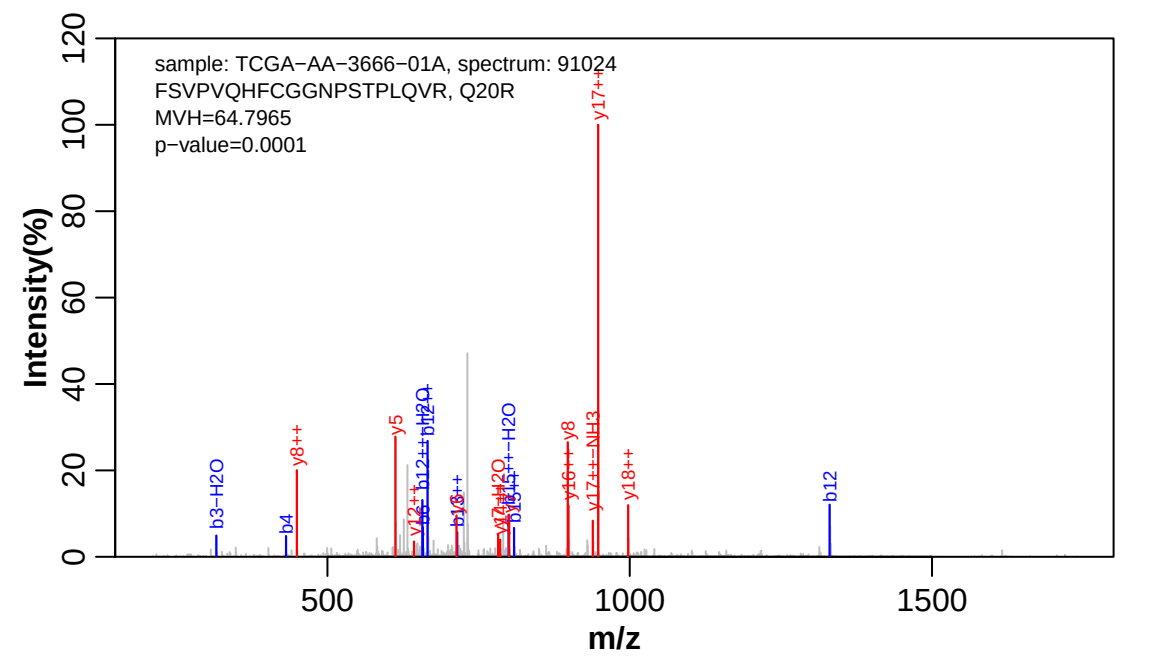

sample: TCGA−AA−3666−01A, spectrum: 61420
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=35.5908
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

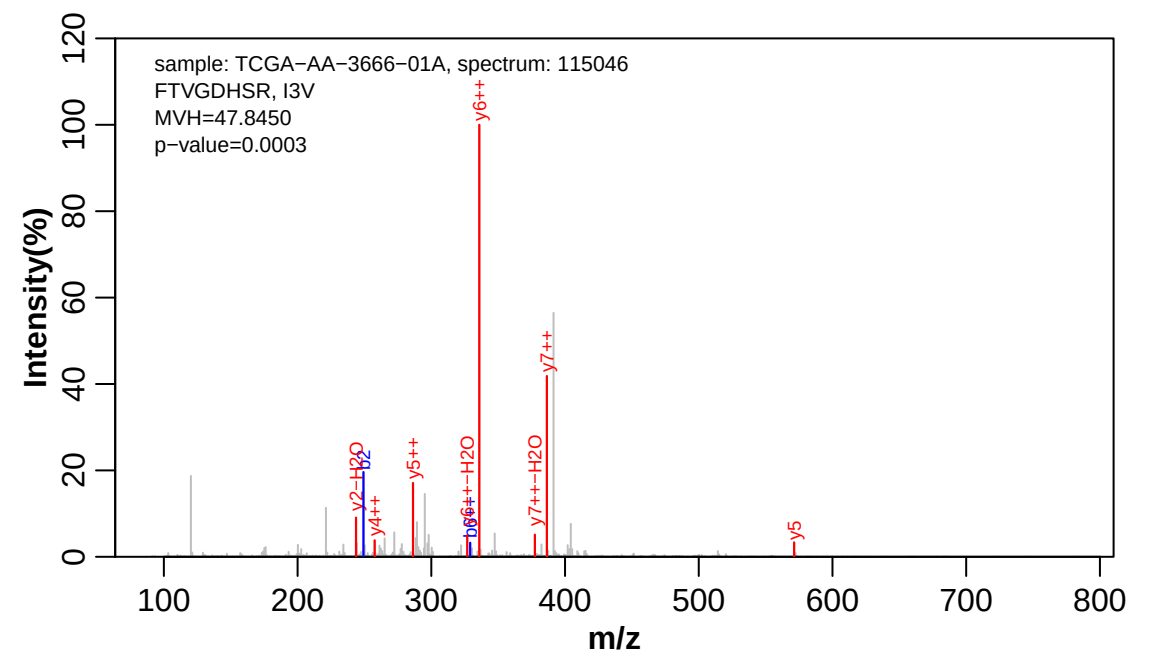

sample: TCGA−AA−3666−01A, spectrum: 6944
FFGSLPDSWAR, S11R
MVH=30.8186
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
y6
y7
y8
y9

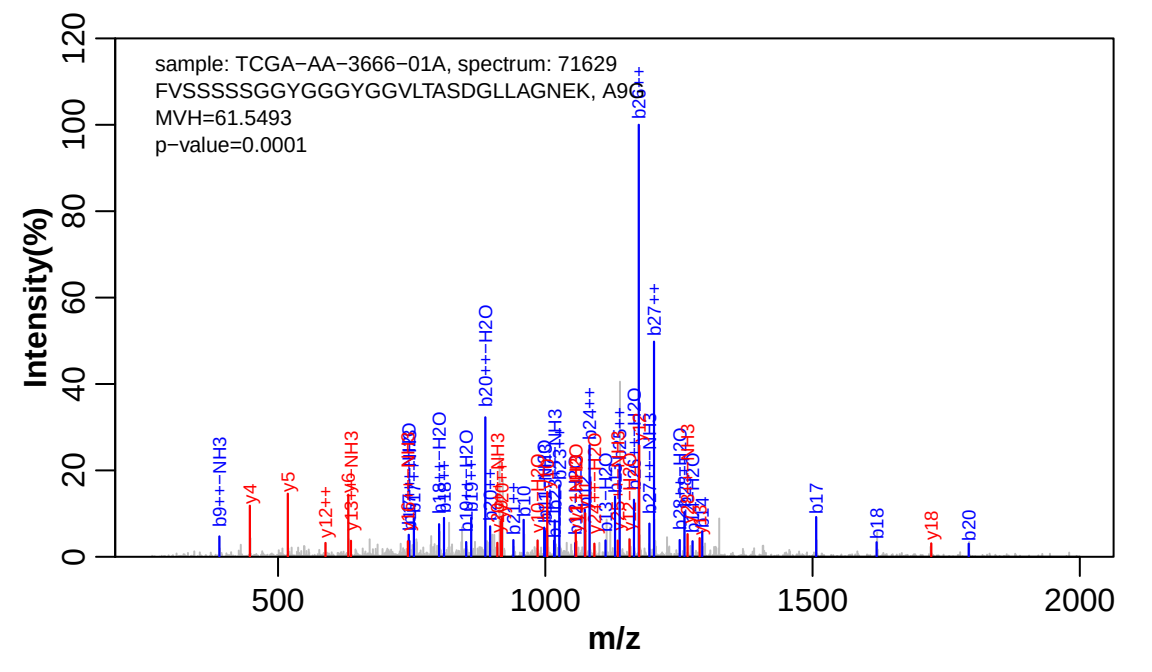

sample: TCGA−AA−3666−01A, spectrum: 67977
FLDKLPQQTGDR, H12R
MVH=49.2906
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y7++
b7++
y4
y9++
y10++−H2O
y10++
y5
y11++

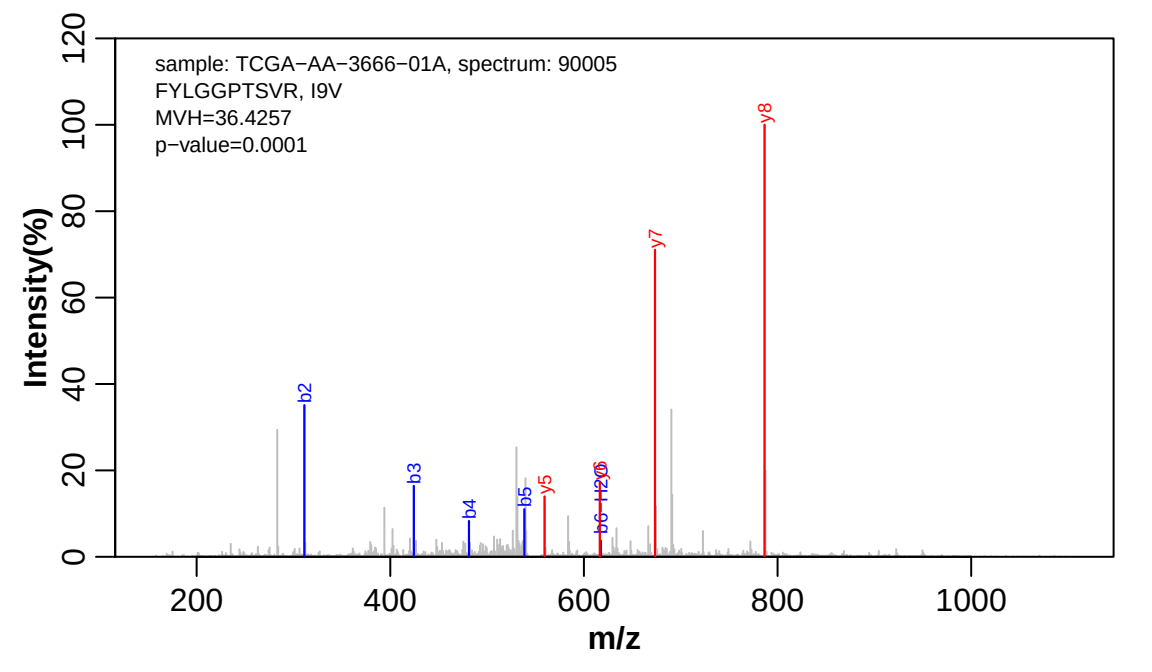

sample: TCGA−AA−3666−01A, spectrum: 51500
FLGQLLTAFPALR, A3G
MVH=55.1914
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
b5
b5−NH3
y5−H2O
y4
y5
y6
y7
y8
b8
y8−H2O
y11
b12

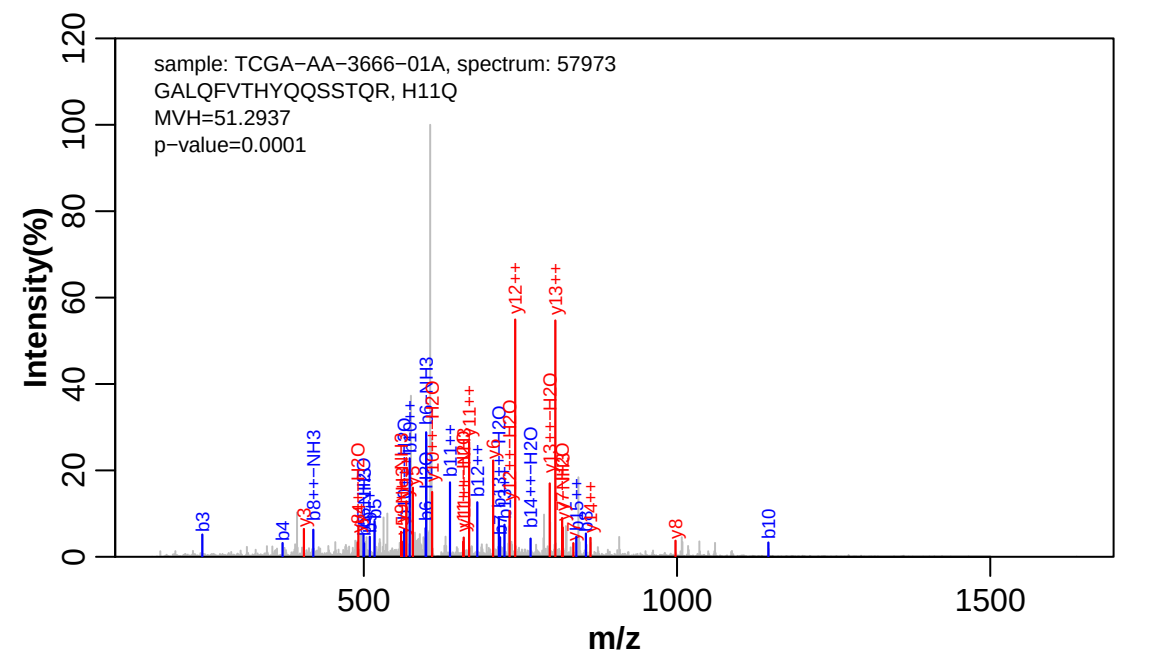

sample: TCGA−AA−3666−01A, spectrum: 82173
FNLSQESSYLATQYSLRPR, S2N
MVH=32.6974
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y13++
y14++
y15++
y16++
y7−H2O
y16++−H2O
y17++
y17++−H2O
y18++

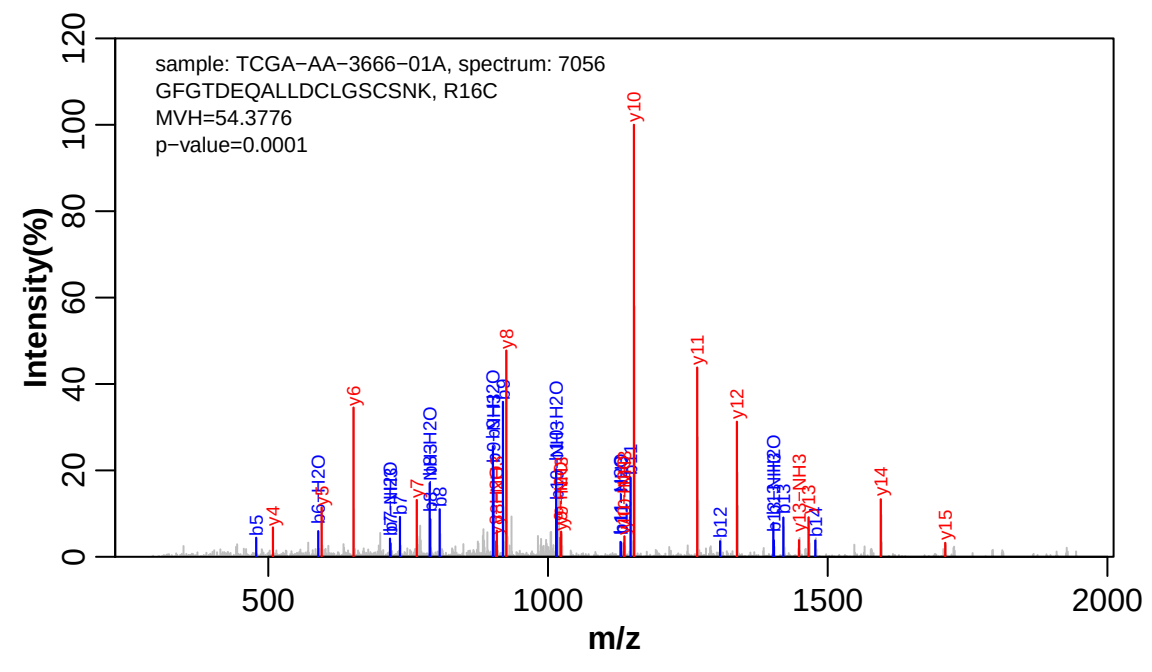

sample: TCGA−AA−3666−01A, spectrum: 91024
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=64.7965
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4
y8++
y5
y12++
b12++
b12++−H2O
b18++
y16++
y8
y17++−NH3
y17++
y18++
b12

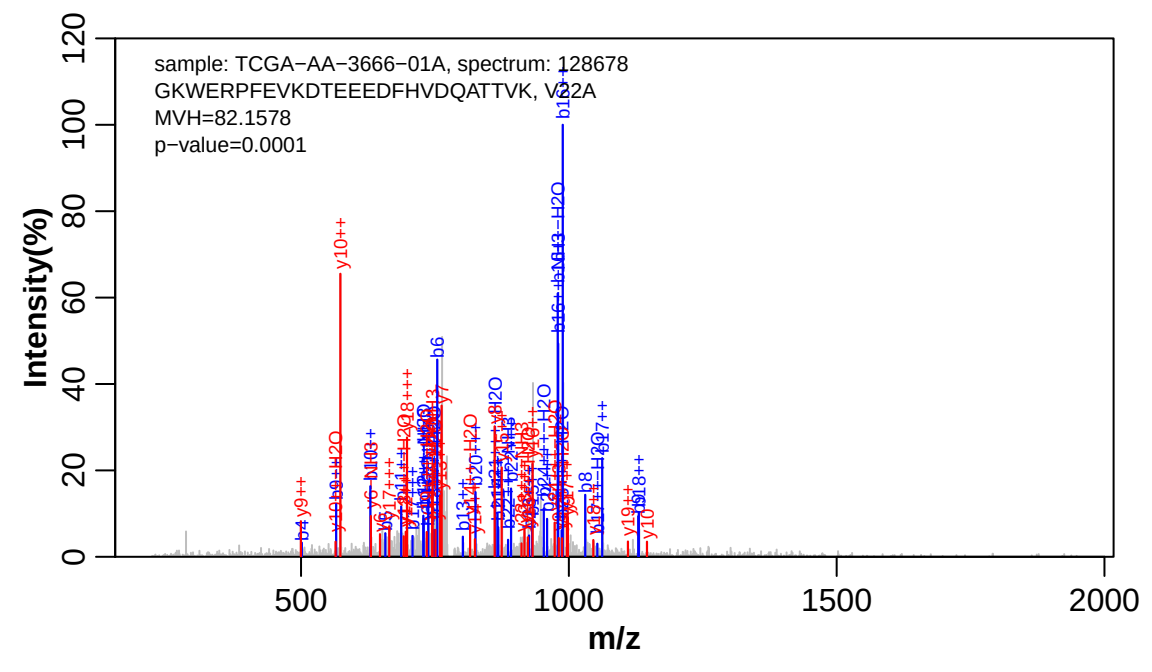

sample: TCGA−AA−3666−01A, spectrum: 115046
FTVGDHSR, I3V
MVH=47.8450
p−value=0.0003
y6++
y7++
y2−H2O
b2
y4++
y5++
b6++−H2O
y7++−H2O
y5
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z

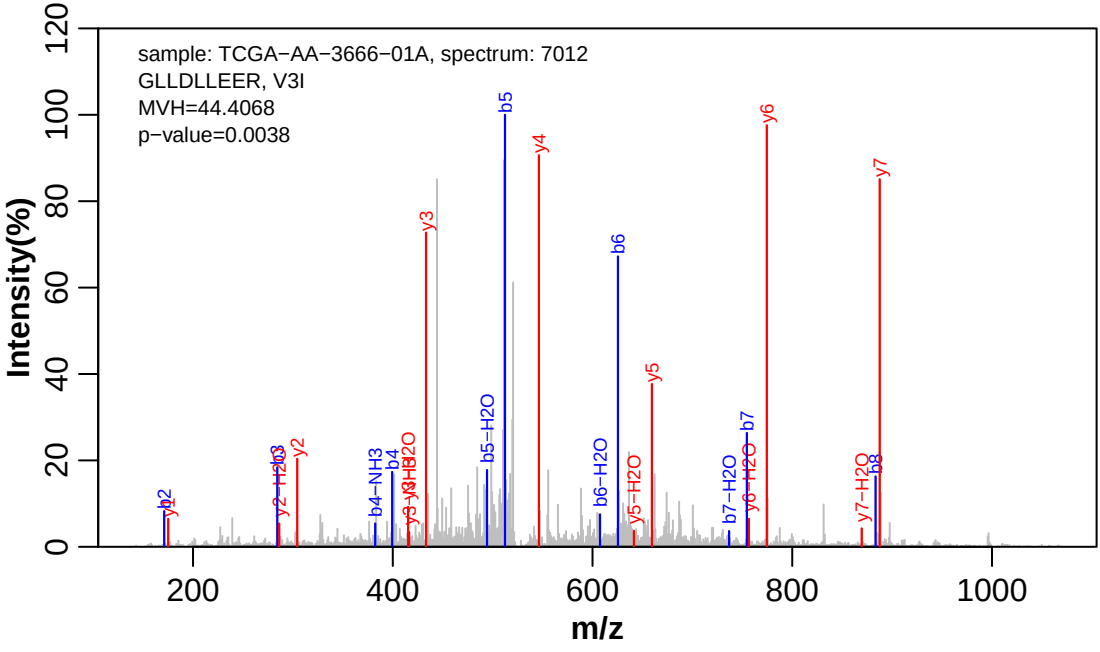

sample: TCGA−AA−3666−01A, spectrum: 71629
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=61.5493
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y12++
y13−y6−NH3
b18++−H2O
b20++−H2O
b21++
b24++
b26++
b27++
b17
b18
y18
b20

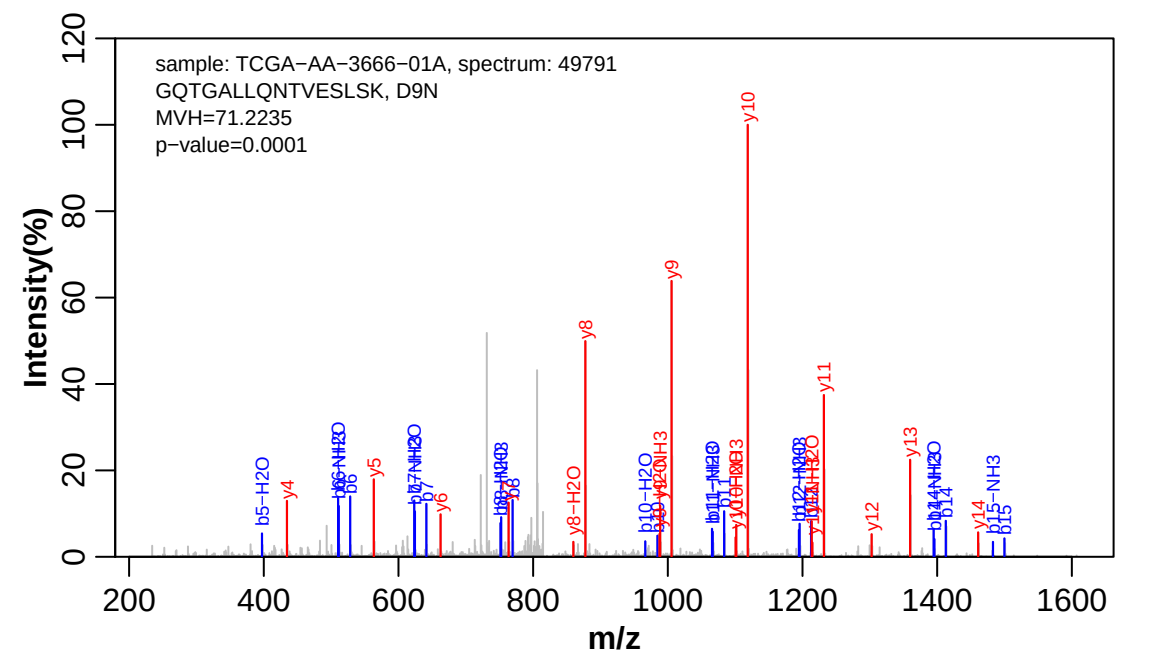

sample: TCGA−AA−3666−01A, spectrum: 90005
FYLGGPTSVR, I9V
MVH=36.4257
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

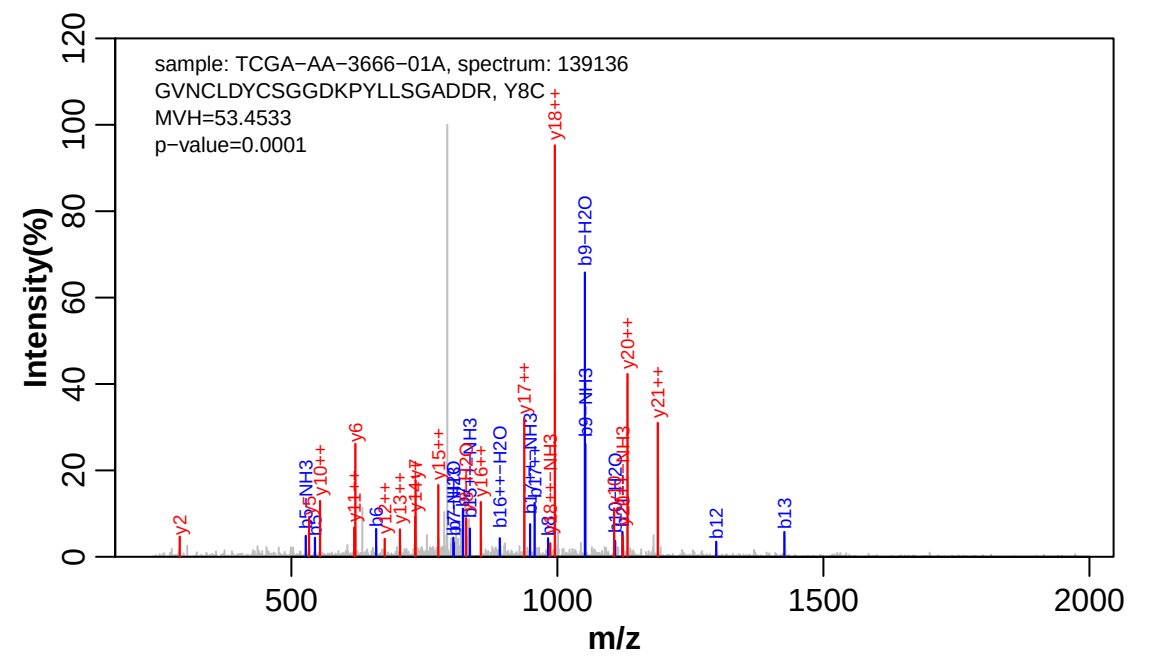

sample: TCGA−AA−3666−01A, spectrum: 57973
GALQFVTHYQQSSTQR, H11Q
MVH=51.2937
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4
y3
b8++−NH3
b14++−H2O
y8
b10
y12++
y13++
y13++−H2O
y10++−H2O
y10++−NH3
b11++
b12++
y11++
b11++−H2O
y11++−H2O
b12++−H2O
y7++
y14++

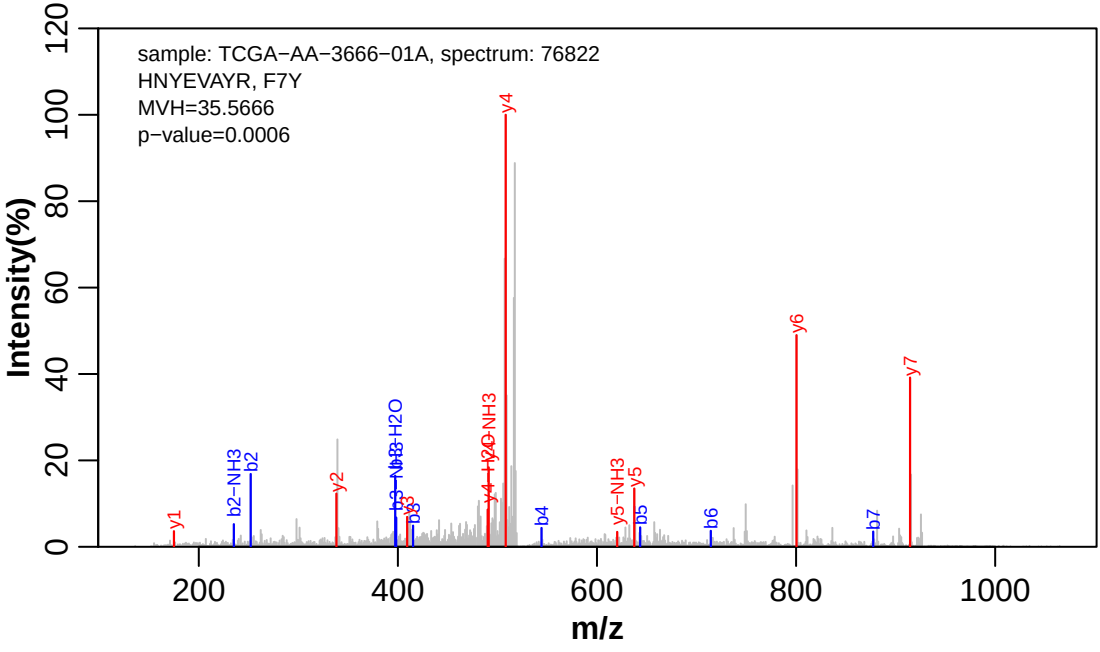

sample: TCGA−AA−3666−01A, spectrum: 7056
GFGTDEQALLDCLGSCSNK, R16C
MVH=54.3776
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y6
y12
y14
y15
b5
y4
b12
b14
y13

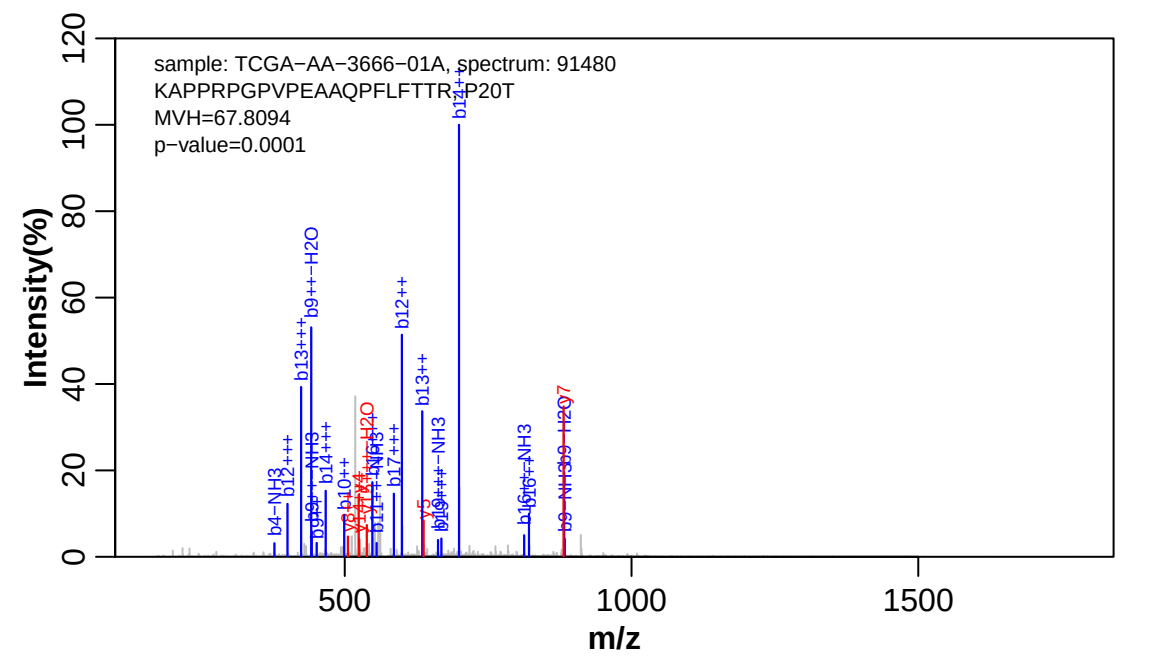

sample: TCGA−AA−3666−01A, spectrum: 128678
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=82.1578
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y9++
y10++
b6
b13++
y7
b16++
b13++H2O
y10++H2O
b16++H2O
b18++
y10++
b8
y19++
y18++

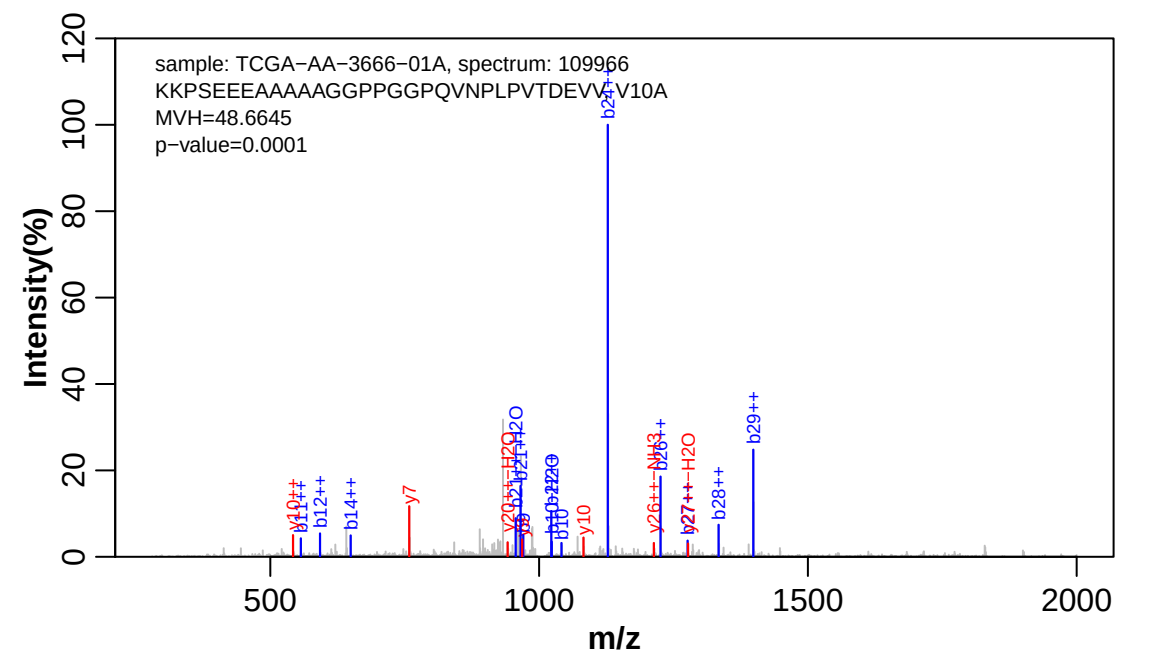

sample: TCGA−AA−3666−01A, spectrum: 7012
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
y2−H2O
b3
b4−NH3
b4
y3−NH3
y3
y3−H2O
b5
b5−H2O
y4
b6
b6−H2O
y5
y5−H2O
b7−H2O
b7
y6−H2O
y6
y7
y7−H2O
b8

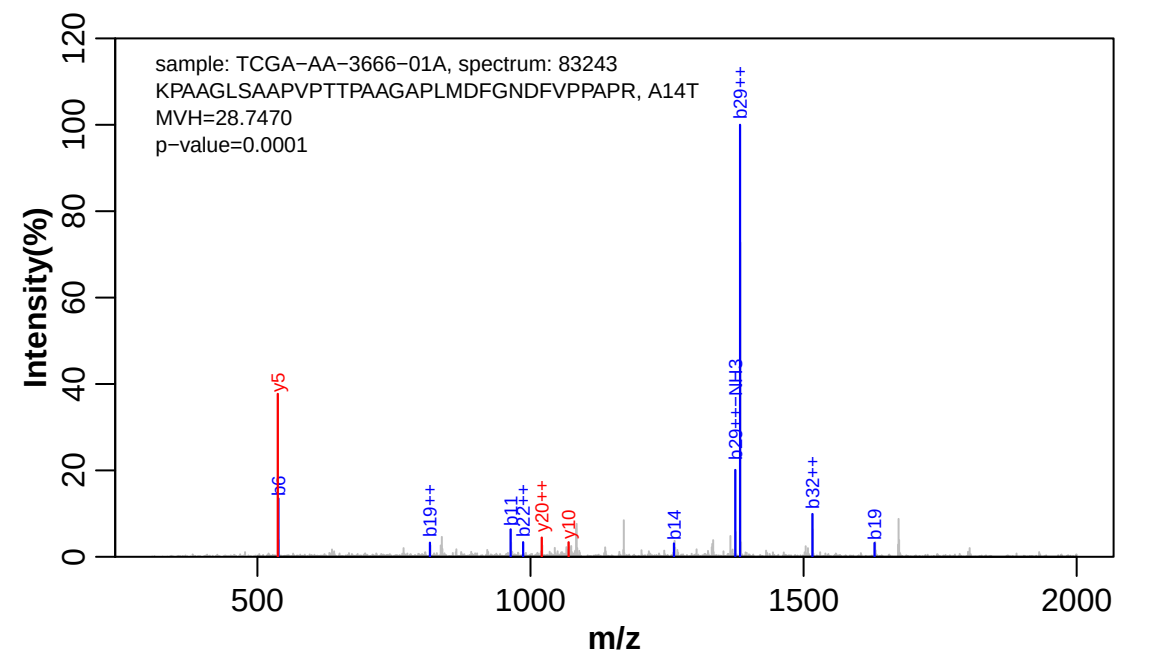

sample: TCGA−AA−3666−01A, spectrum: 49791
GQTGALLQNTVESLSK, D9N
MVH=71.2235
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y6
y12
y14
y4
b5−H2O
y8−H2O
b15−NH3

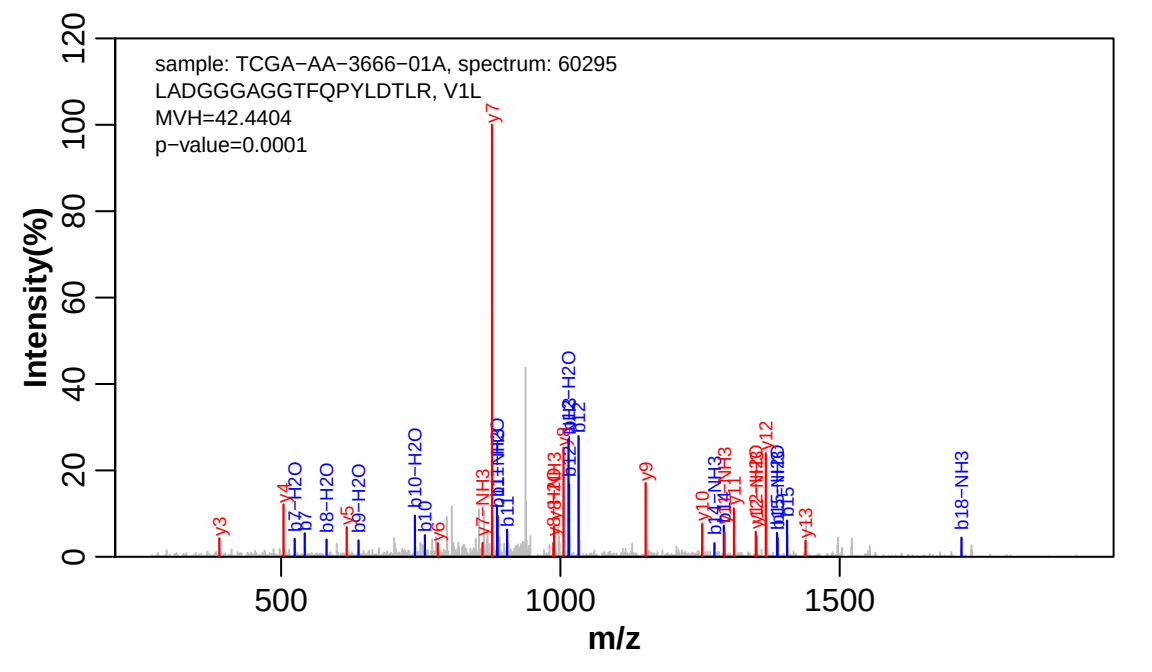

sample: TCGA−AA−3666−01A, spectrum: 139136
GVNCLDYCSGGDKPYLLSGADDR, Y8C
MVH=53.4533
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y18++
b9−H2O
b9−NH3
y20++
y21++
y17++
y15++
y6
y10++
b5−NH3
b16++−H2O
b12
b13
y2

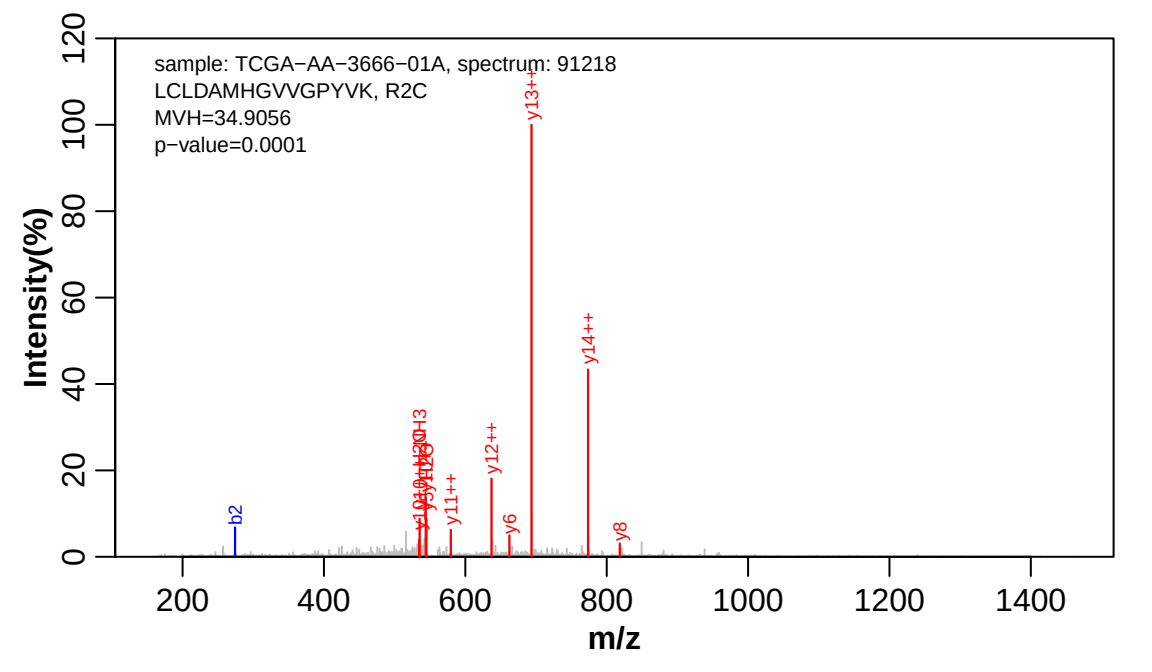

sample: TCGA−AA−3666−01A, spectrum: 76822
HNYEVAYR, F7Y
MVH=35.5666
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2−NH3
b2
y2
b3−NH3
b3−H2O
b3
y4−H2O−NH3
y4
b4
y5−NH3
y5
b5
b6
y6
y7
b7

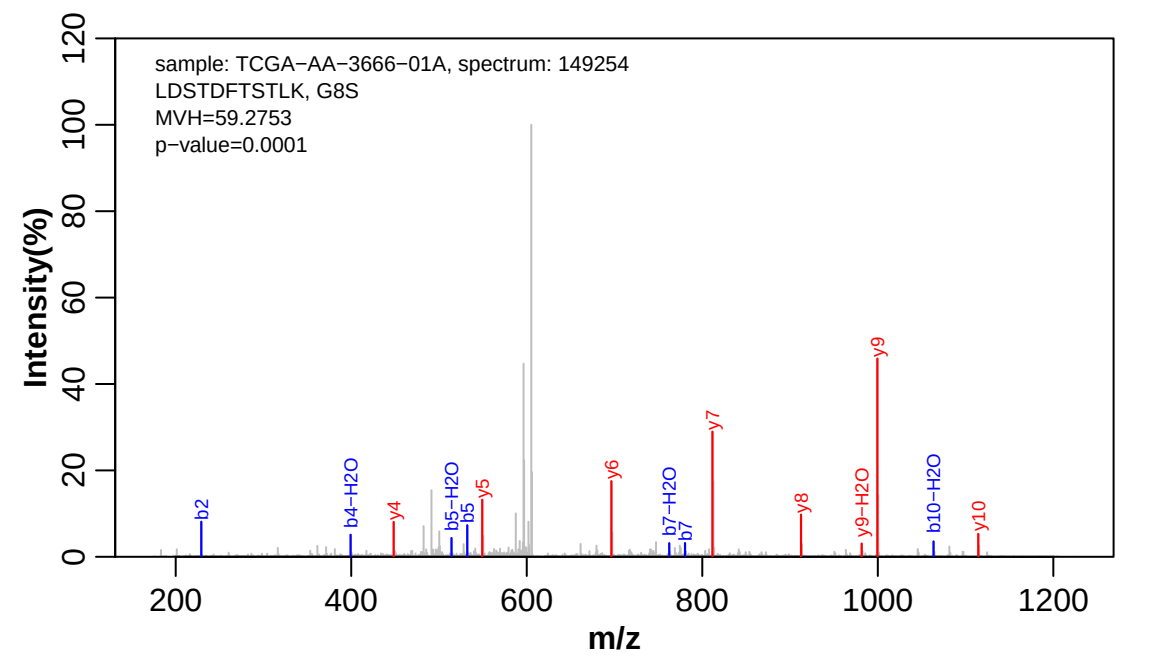

sample: TCGA−AA−3666−01A, spectrum: 91480
KAPPRPGPVPEAAQPFLFTTR_P20T
MVH=67.8094
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b12++
b13+++
b9++−H2O
b12++
b13++
b14+++
b17+++
b4−NH3
b12+++
b9++−NH3
b10++
Y8
Y4
Y5
b9++−NH3
b16++−NH3
b9−NH3
b9−H2O
Y7

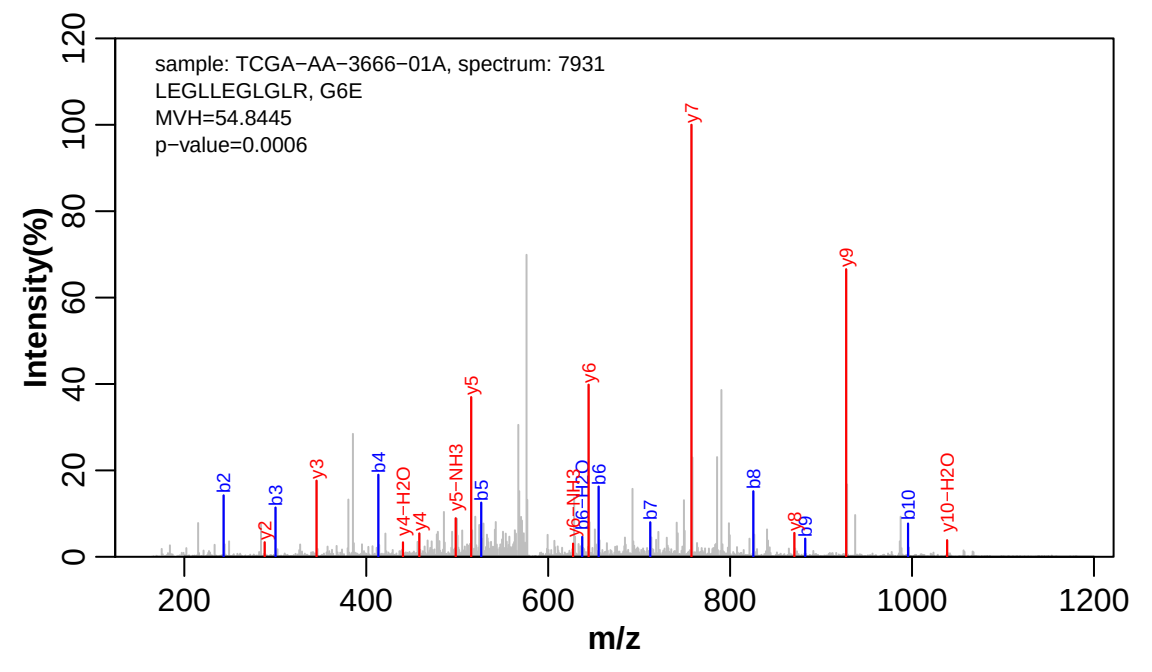

sample: TCGA−AA−3666−01A, spectrum: 109966
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=48.6645
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b29++
b28++
b27++−H2O
y26++−NH3
b26++
y10
b14++
y7
b12++

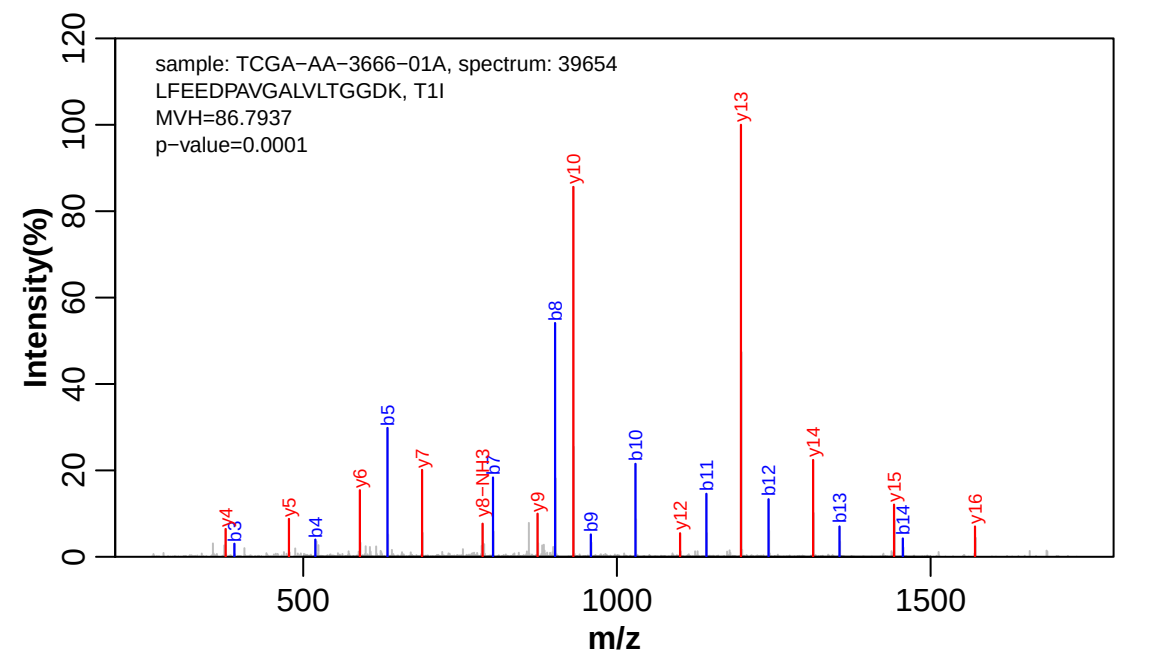

sample: TCGA−AA−3666−01A, spectrum: 83243
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=28.7470
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
b6
b19++
b11
b22++
y20++
y10
b14
b29++
b29++−NH3
b32++
b19

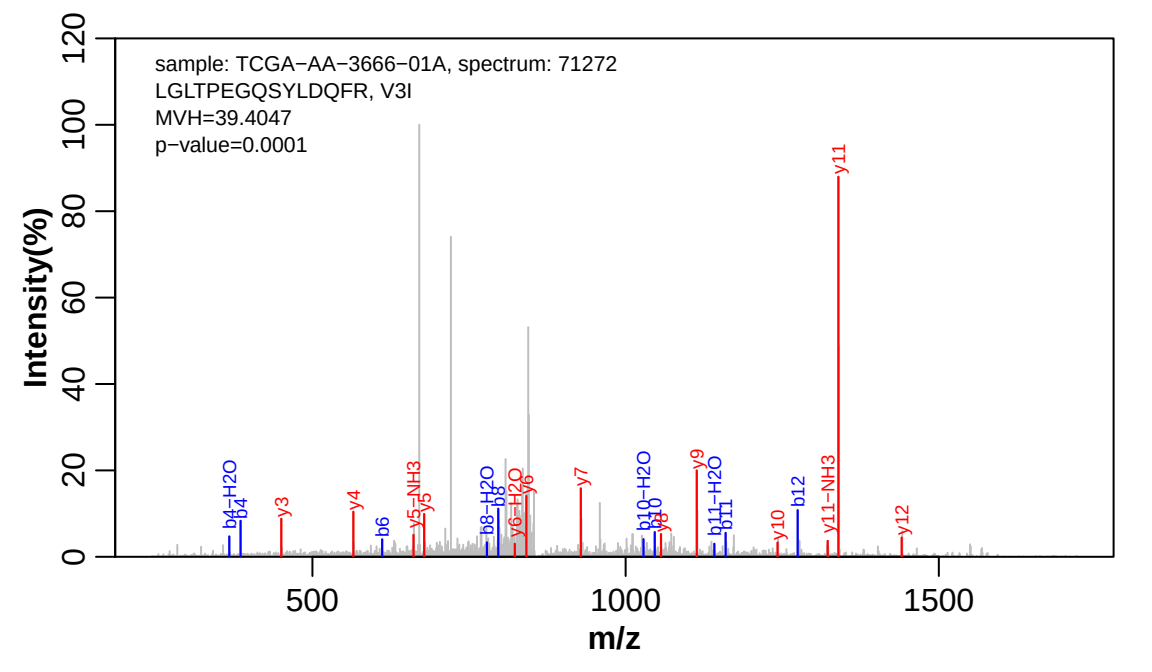

sample: TCGA−AA−3666−01A, spectrum: 60295
LADGGGAGGTFQPYLDTLR, V1L
MVH=42.4404
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b8−H2O
y5
b9−H2O
b10−H2O
b10
y6
y7−NH3
b11
b12
y9
y10
b14−NH3
y11
y12
y13
b15
b18−NH3

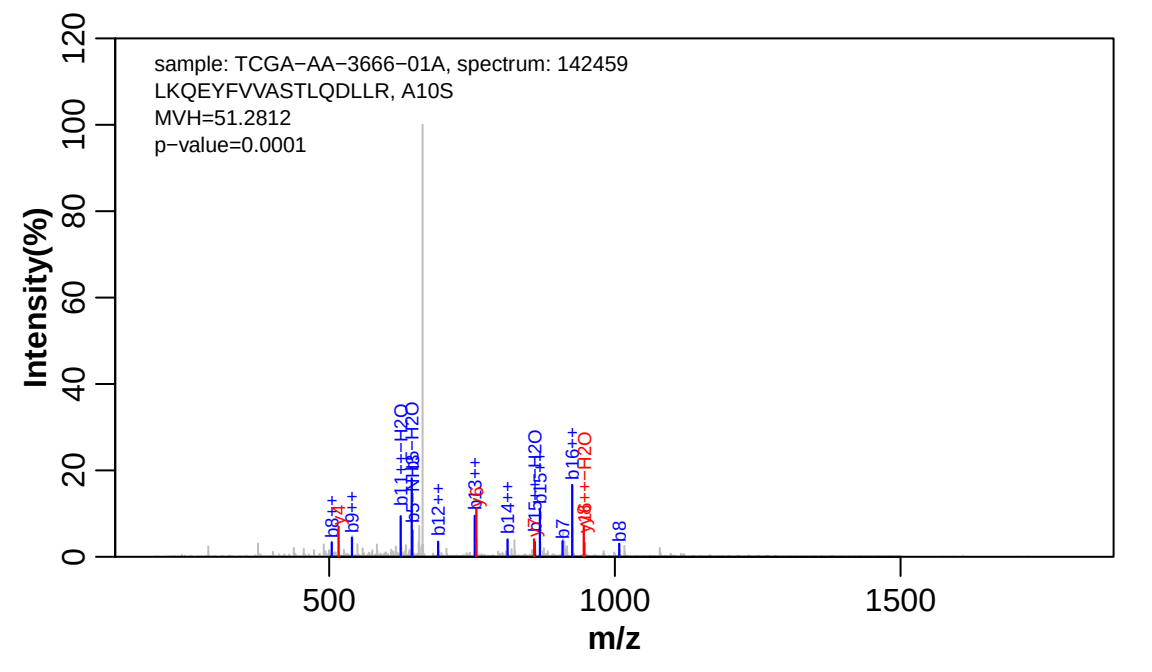

sample: TCGA−AA−3666−01A, spectrum: 91218
LCLDAMHGVVGPYVK, R2C
MVH=34.9056
p−value=0.0001
Intensity(%)
m/z
b2
y11++
y12++
y6
y13++
y14++
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

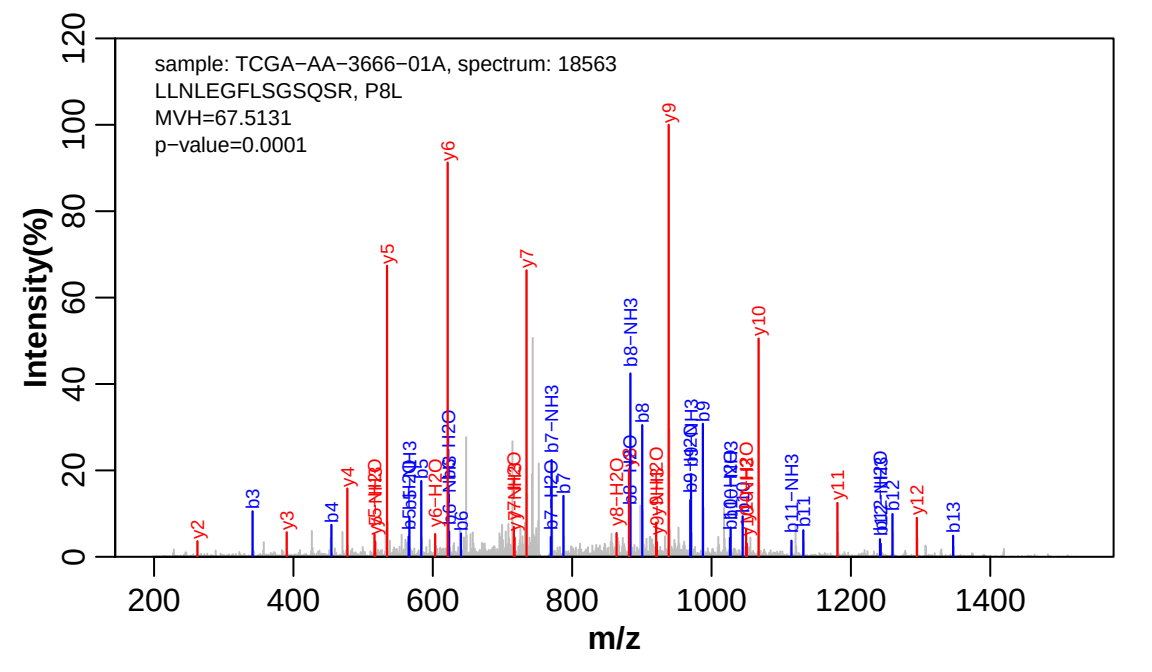

sample: TCGA−AA−3666−01A, spectrum: 149254
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
y10

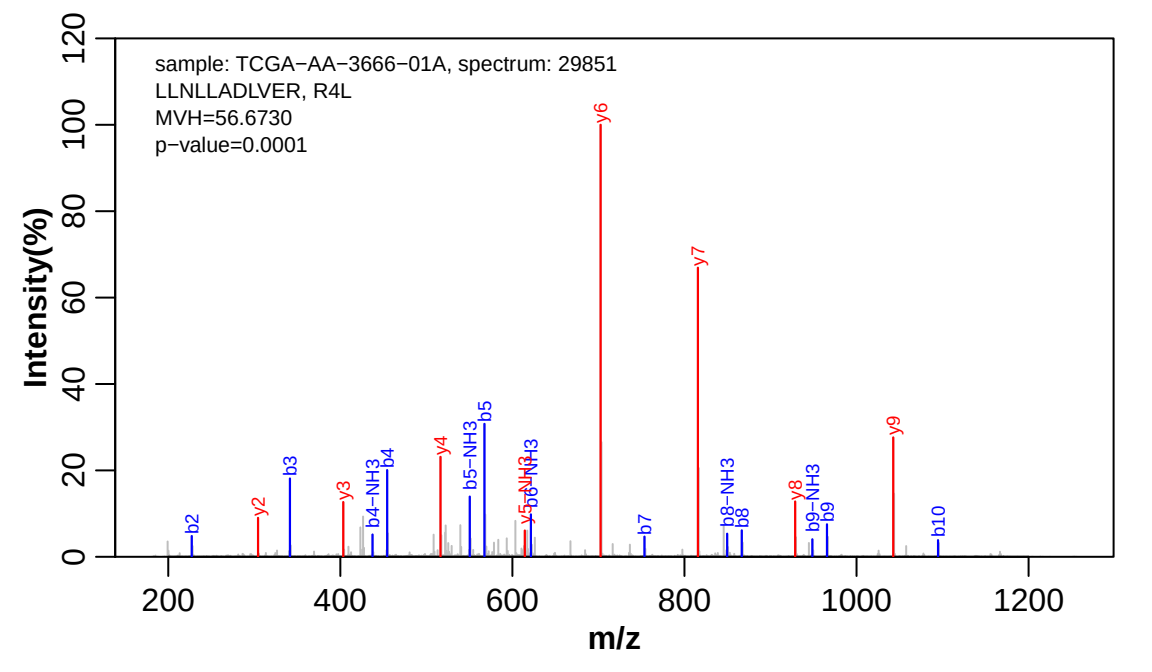

sample: TCGA−AA−3666−01A, spectrum: 7931
LEGLLEGLGLR, G6E
MVH=54.8445
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4−H2O
y4
y5−NH3
y5
b5
y6−NH3
y6−H2O
y6
b6
b7
y7
b8
y8
b9
y9
b10
y10−H2O

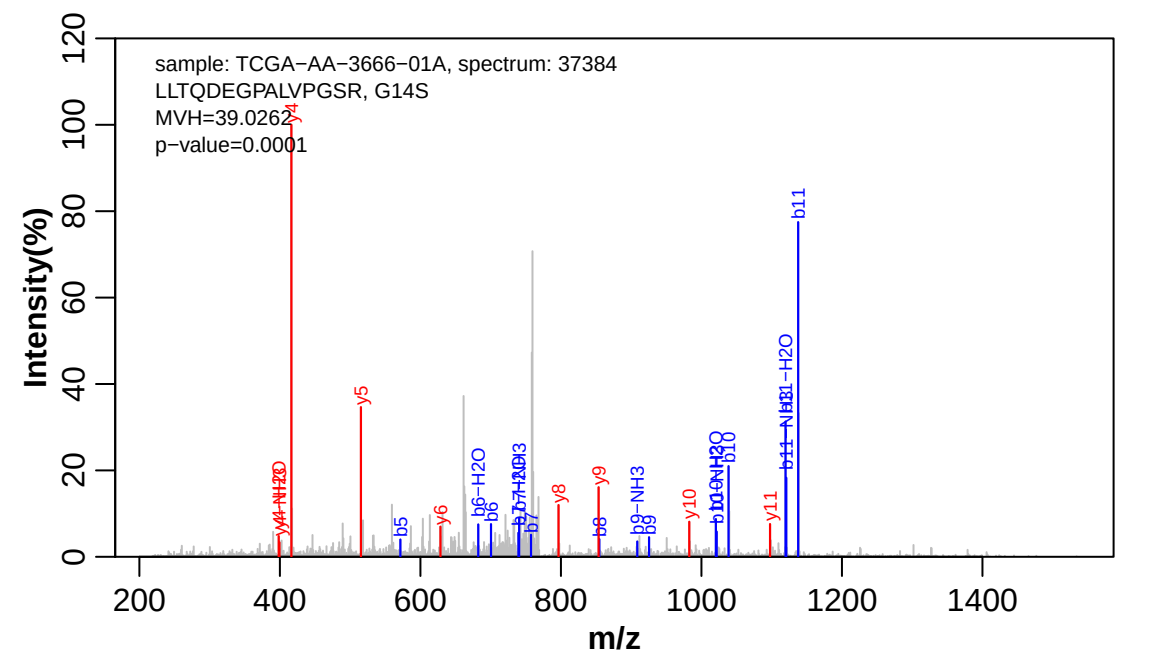

sample: TCGA−AA−3666−01A, spectrum: 39654
LFEEDPAVGALVLTGGDK, T1I
MVH=86.7937
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y7
y6
y8−NH3
b7
y5
b4
y4
b3
y9
b9
b10
y12
b11
b12
y14
b13
y15
b14
y16

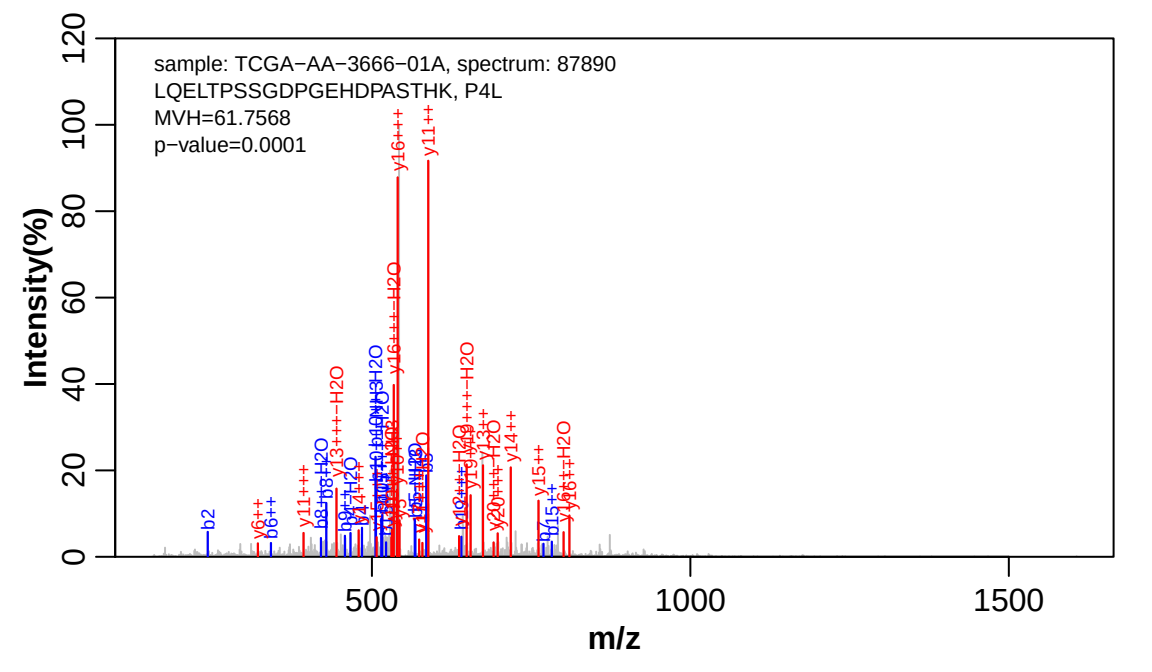

sample: TCGA−AA−3666−01A, spectrum: 71272
LGLTPEGQSYLDQFR, V3I
MVH=39.4047
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
b6
y5−NH3
y5
b8−H2O
b8
y6−H2O
y6
y7
b10−H2O
b10
y8
y9
b11−H2O
b11
y10
b12
y11−NH3
y11
y12

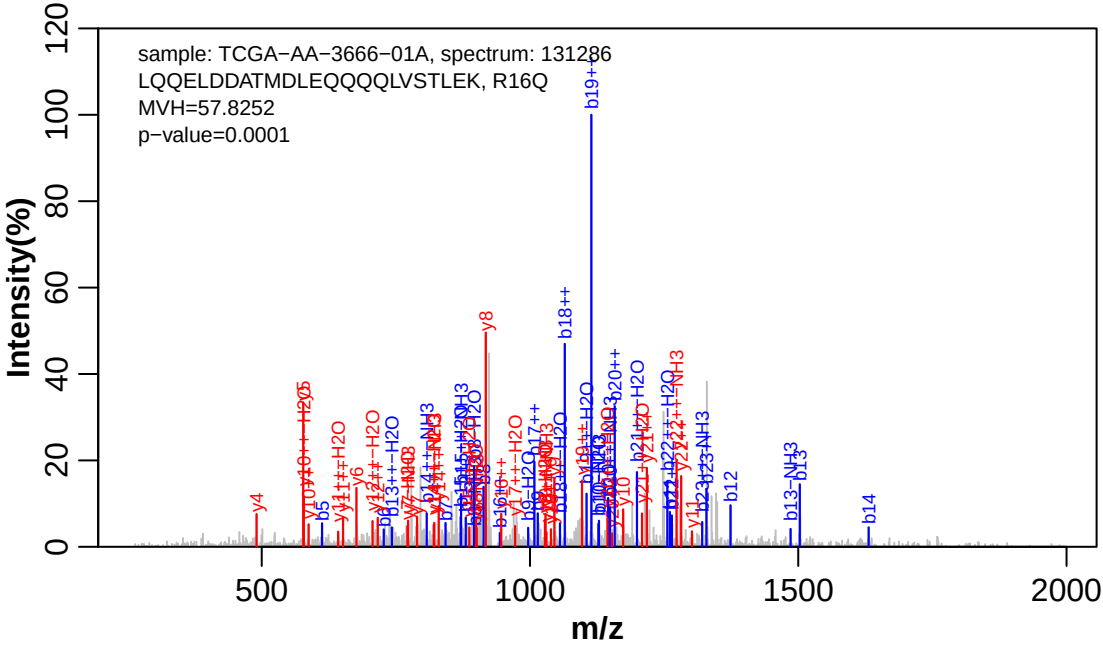

sample: TCGA−AA−3666−01A, spectrum: 142459
LKQEYFVVASTLQDLLR, A10S
MVH=51.2812
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b8++
y4
b9++
b11++-H2O
b5++-NH3
b5++-H2O
b12++
y13++
b14++
y15++-H2O
b7
b16++
y16++-H2O
b8

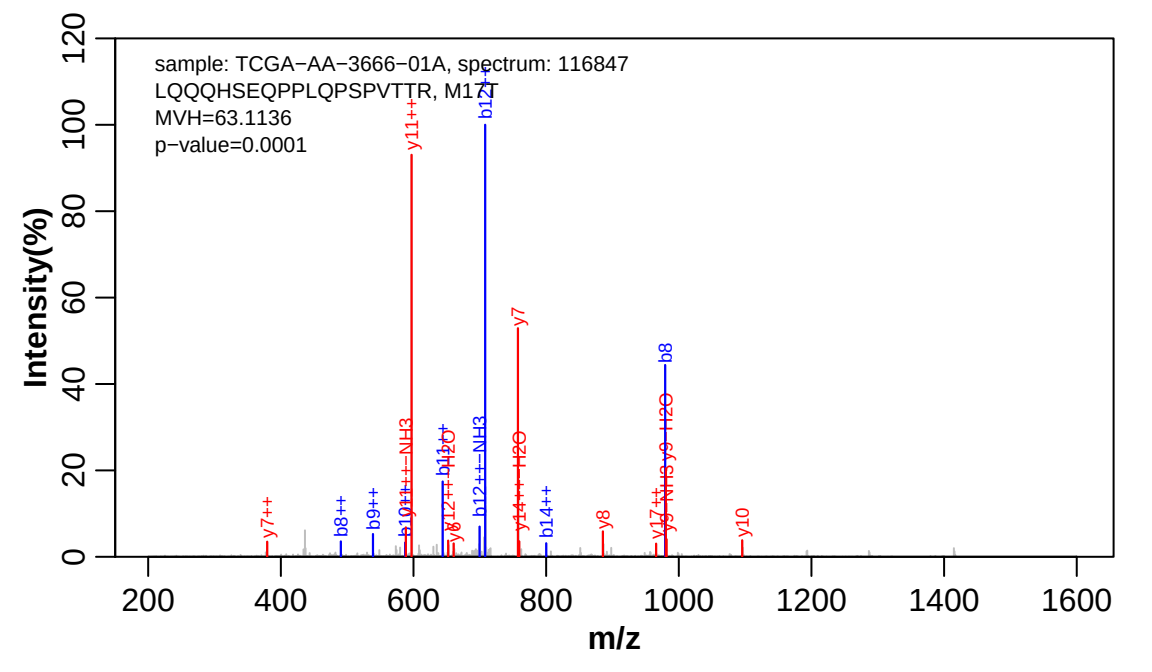

sample: TCGA−AA−3666−01A, spectrum: 18563
LLNLEGFLSGSQSR, P8L
MVH=67.5131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y9
y6
y5
y7
y10
b8−NH3
b8
b7−NH3
b3
y4
b4
y3
y2
y11
y12
b13

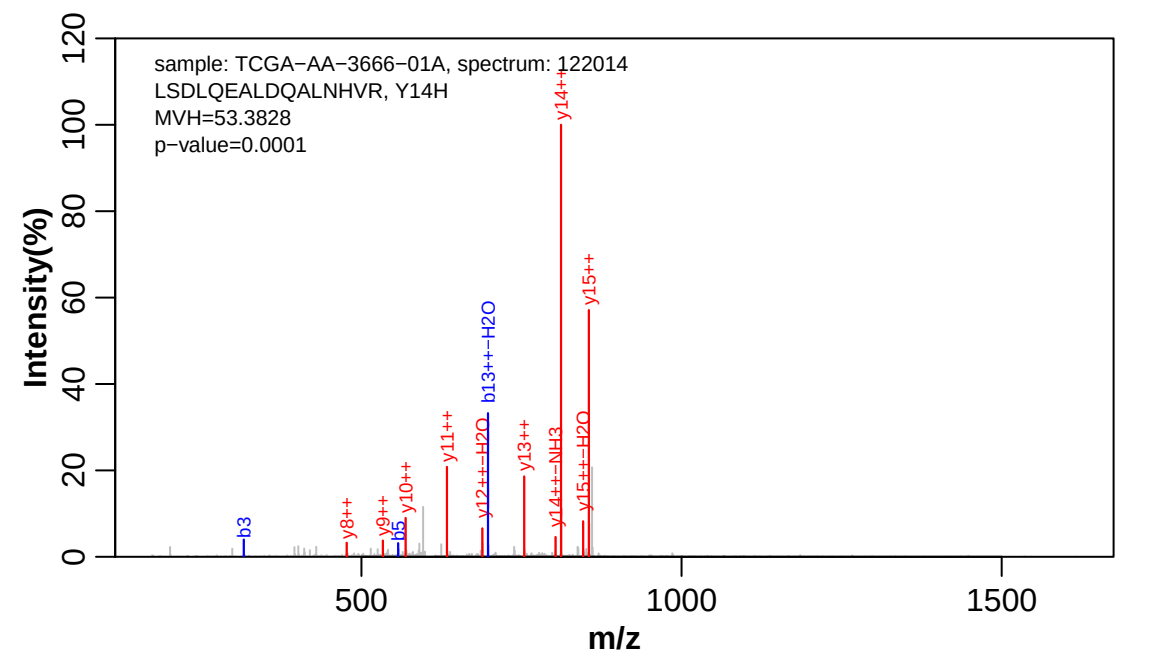

sample: TCGA−AA−3666−01A, spectrum: 29851
LLNLLADLVER, R4L
MVH=56.6730
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

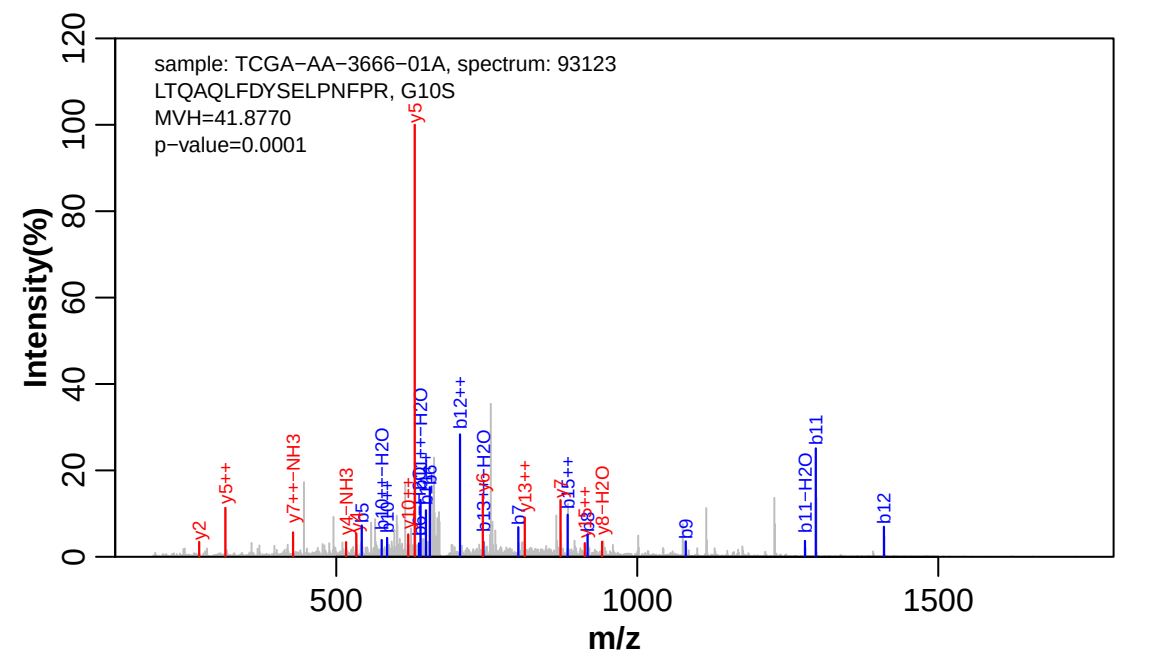

sample: TCGA−AA−3666−01A, spectrum: 37384
LLTQDEGPALVPGSR, G14S
MVH=39.0262
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
y8
y9
y10
y11
b5
b6
b6−H2O
b8
b8−NH3
b9
b10
b11
b11−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

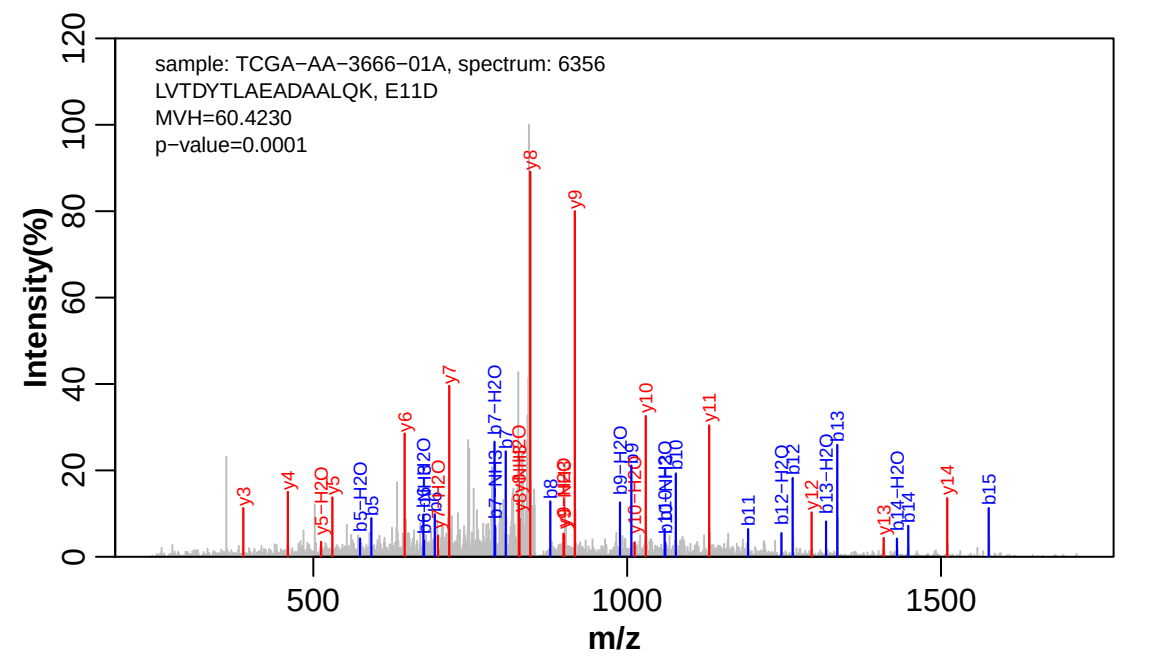

sample: TCGA−AA−3666−01A, spectrum: 87890
LQELTPSSGDPGEHDPASTHK, P4L
MVH=61.7568
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y6++
b6++
y11+++
b8+−H2O
b8+
y13+++−H2O
y16+++
y11++
y16+++−H2O
y13++
y14++
y15++
b7
b15++
y16++−H2O

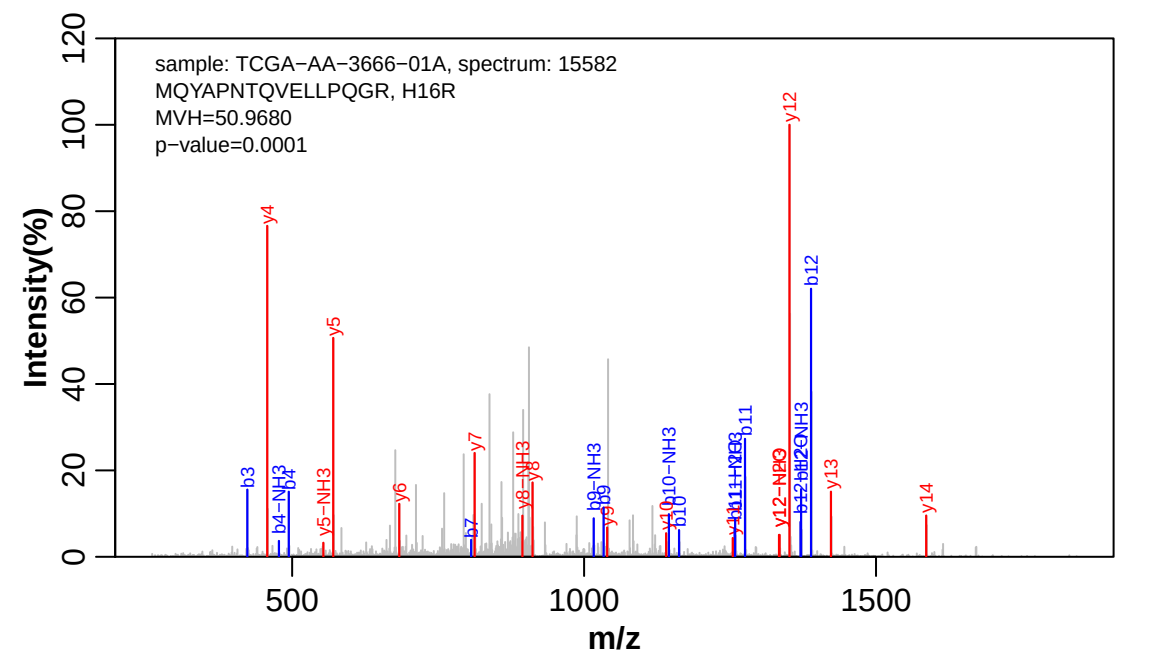

sample: TCGA−AA−3666−01A, spectrum: 131286
LQQELDDATMDLEQQQQLVSTLEK, R16Q
MVH=57.8252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b19++
y8
b18++
y4
b5
b12
b14
b13−NH3
b13

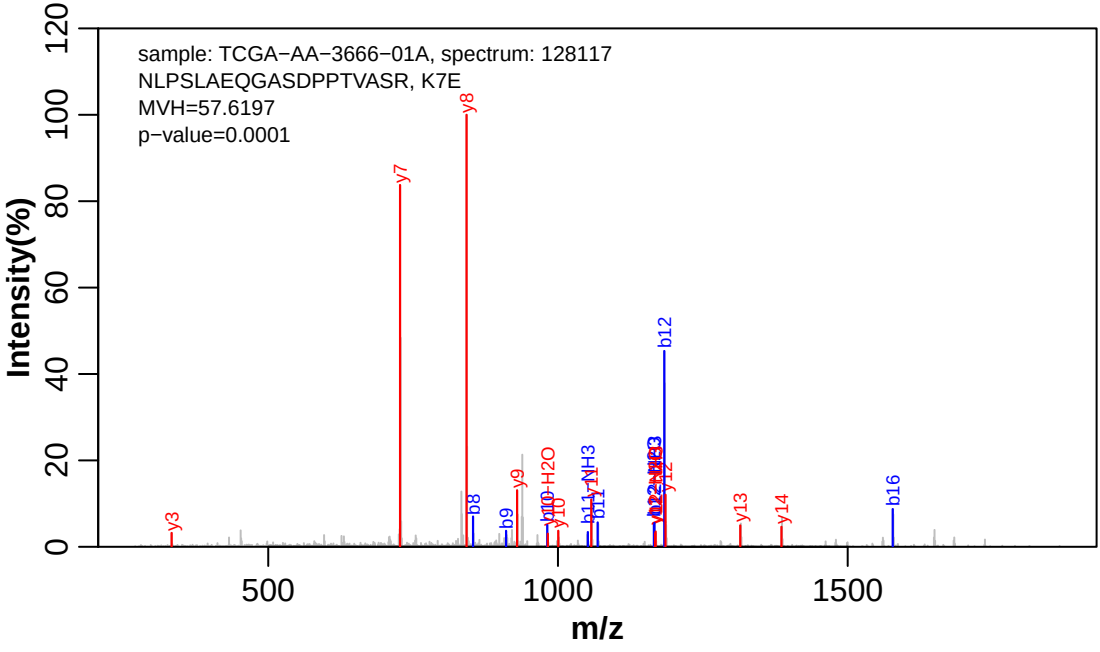

sample: TCGA−AA−3666−01A, spectrum: 116847
LQQQHSEQPPLQPSPVTTR, M12T
MVH=63.1136
p−value=0.0001
Intensity(%)
m/z
y11++
b12++
y7
b8
y7++
b8++
b9++
b10++−NH3
b11++
y12++ H2O
y8++
b12++−NH3
y14++ H2O
b14++
y8
y17++
y9−NH3
y9−H2O
y10

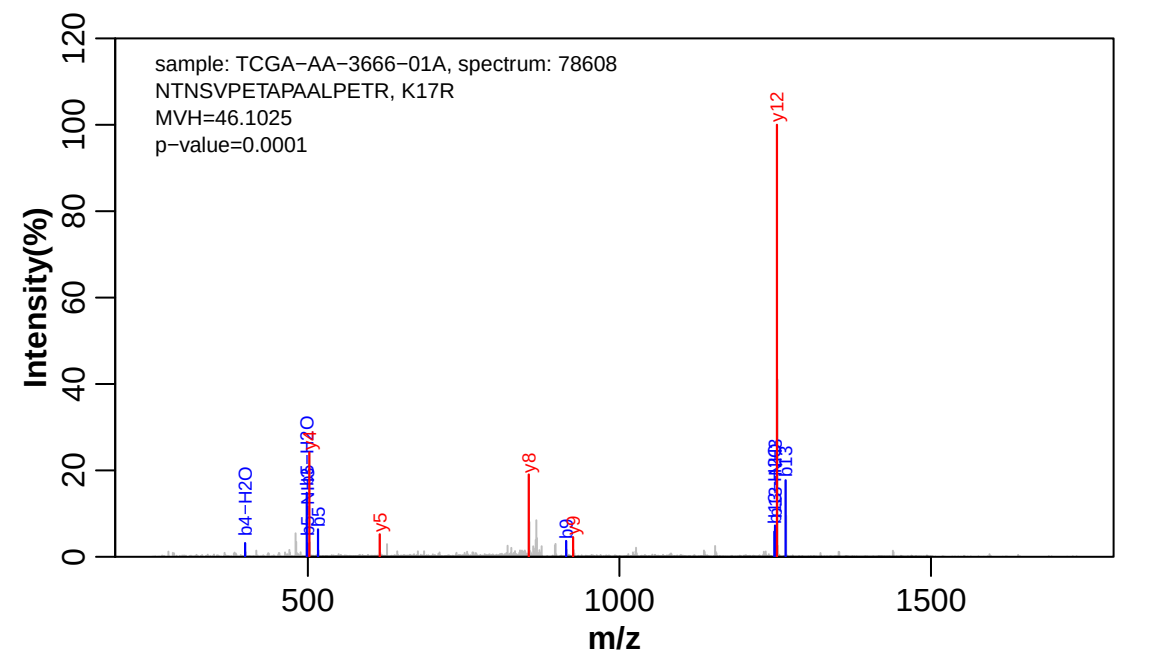

sample: TCGA−AA−3666−01A, spectrum: 122014
LSDLQEALDQALNHVR, Y14H
MVH=53.3828
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y8++
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−NH3
y15++−H2O
y14++
y15++

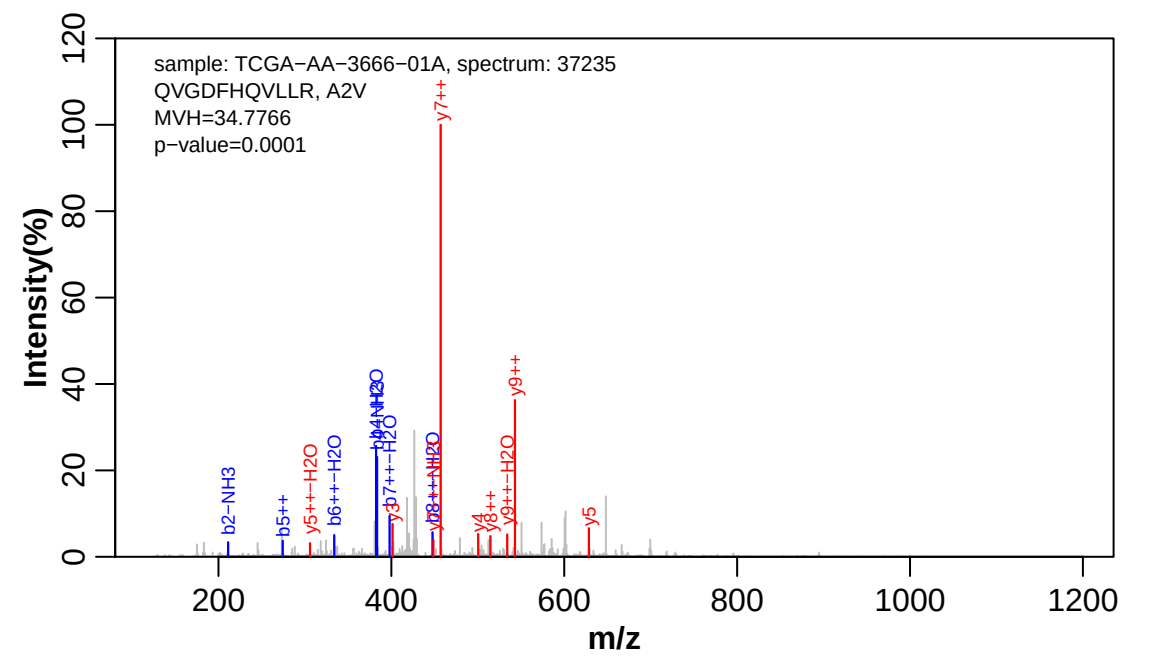

sample: TCGA−AA−3666−01A, spectrum: 93123
LTQAQLFDYSELPNFPR, G10S
MVH=41.8770
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y2
y5++
y7++−NH3
y4−NH3
y15
b10++−H2O
b12++
b13++y6−H2O
b7
y13++
y7
b15++
y8−H2O
b9
b11−H2O
b11
b12

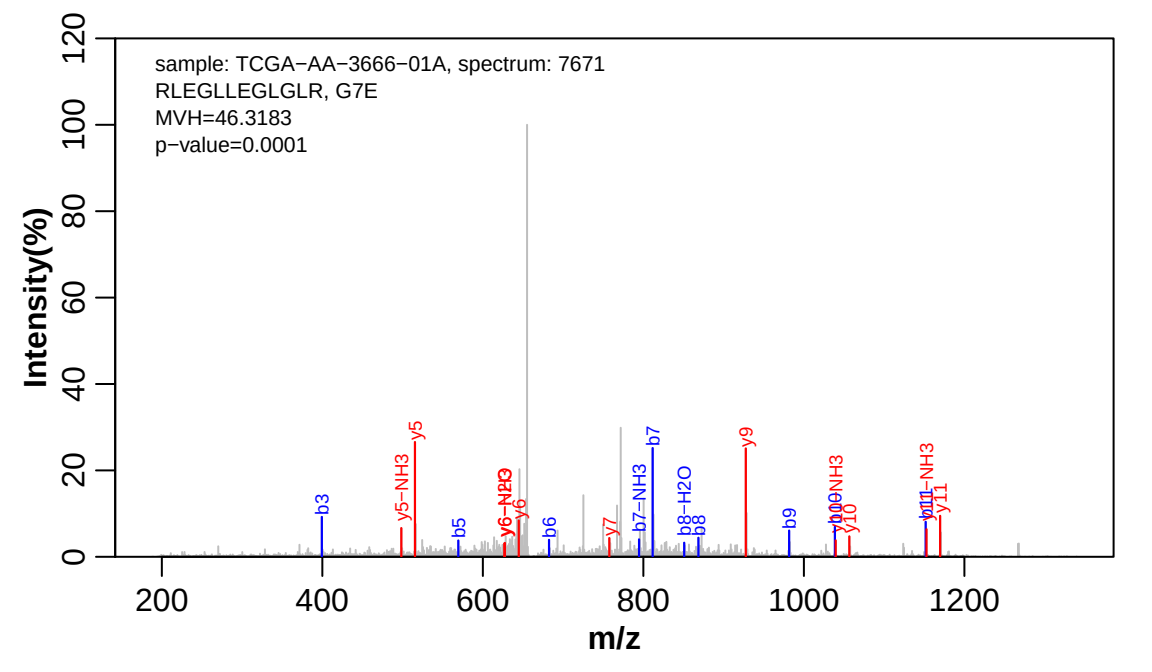

sample: TCGA−AA−3666−01A, spectrum: 6356
LVTDYTLAEADAALQK, E11D
MVH=60.4230
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5−H2O
y5
b5−H2O
b5
y6
y7
b7−NH3
b7−H2O
b7
y8
y9
b8
b9−H2O
b9
y10−H2O
y10
y11
b11
b12−H2O
b12
y12
b13−H2O
b13
y13
b14−H2O
b14
y14
b15

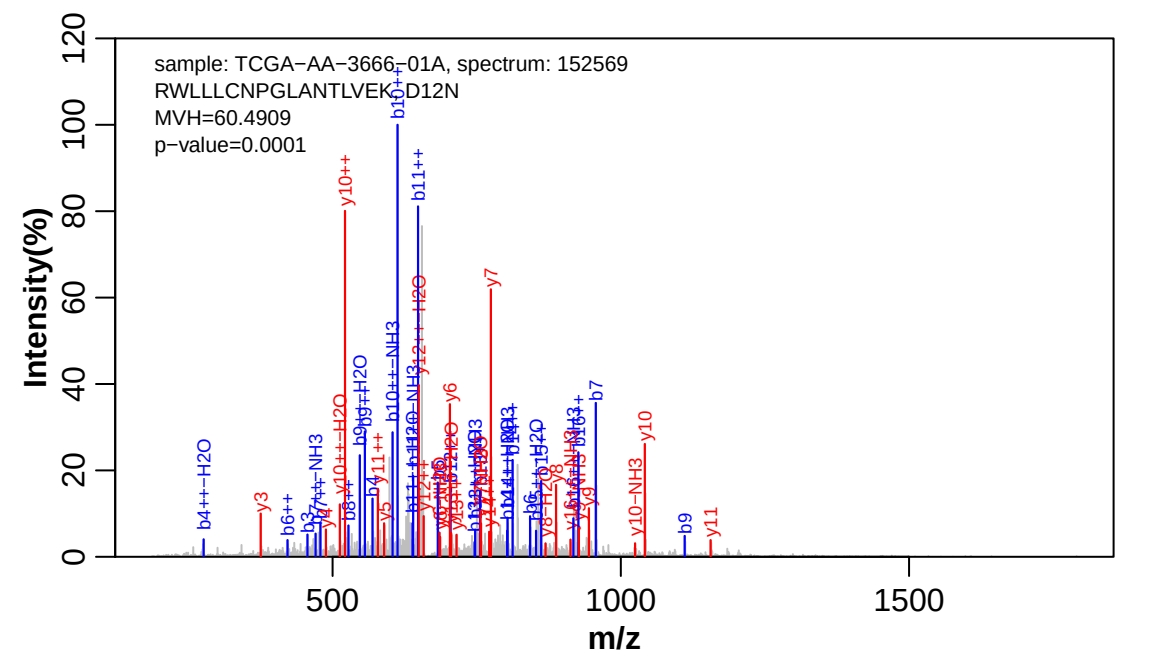

sample: TCGA−AA−3666−01A, spectrum: 15582
MQYAPNTQVELLPQGR, H16R
MVH=50.9680
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y7
y8
y12
b12
b11
y13
y14
b3
b4
b4−NH3
y5−NH3
b7
y8−NH3
b8−NH3
b10−NH3
y12−NH3

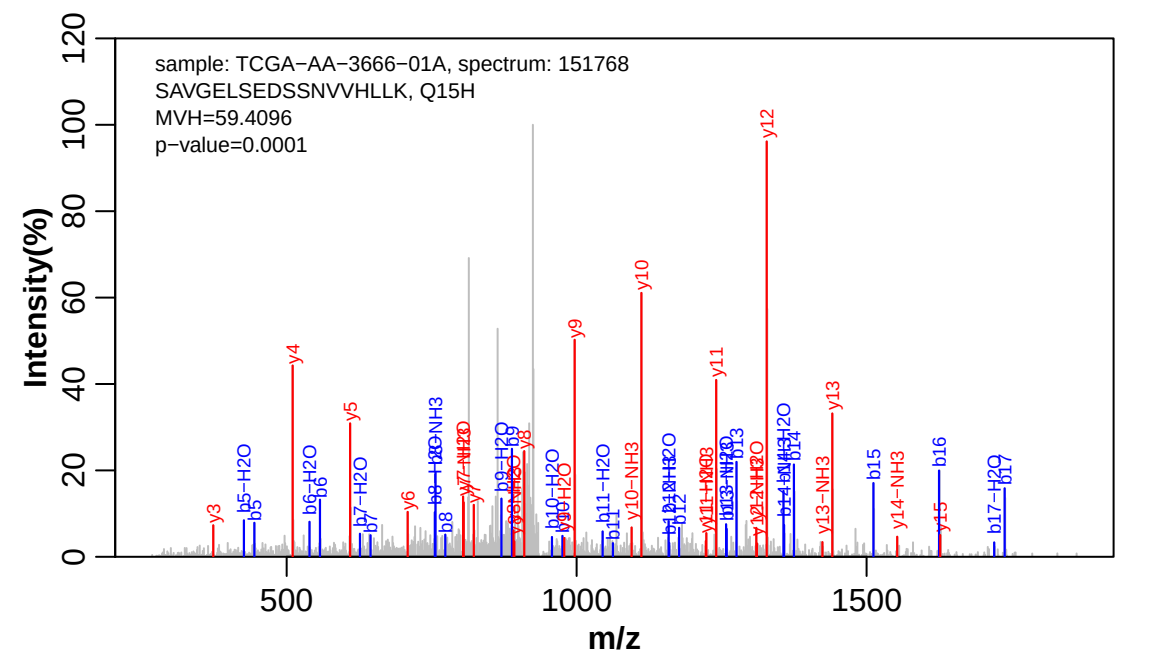

sample: TCGA−AA−3666−01A, spectrum: 128117
NLPSLAEQGASDPPTVASR, K7E
MVH=57.6197
p−value=0.0001
Intensity(%)
m/z
y3
y7
y8
b8
b9
y9
y10−H2O
y10
b11−NH3
b11
b12
y12
y13
y14
b16

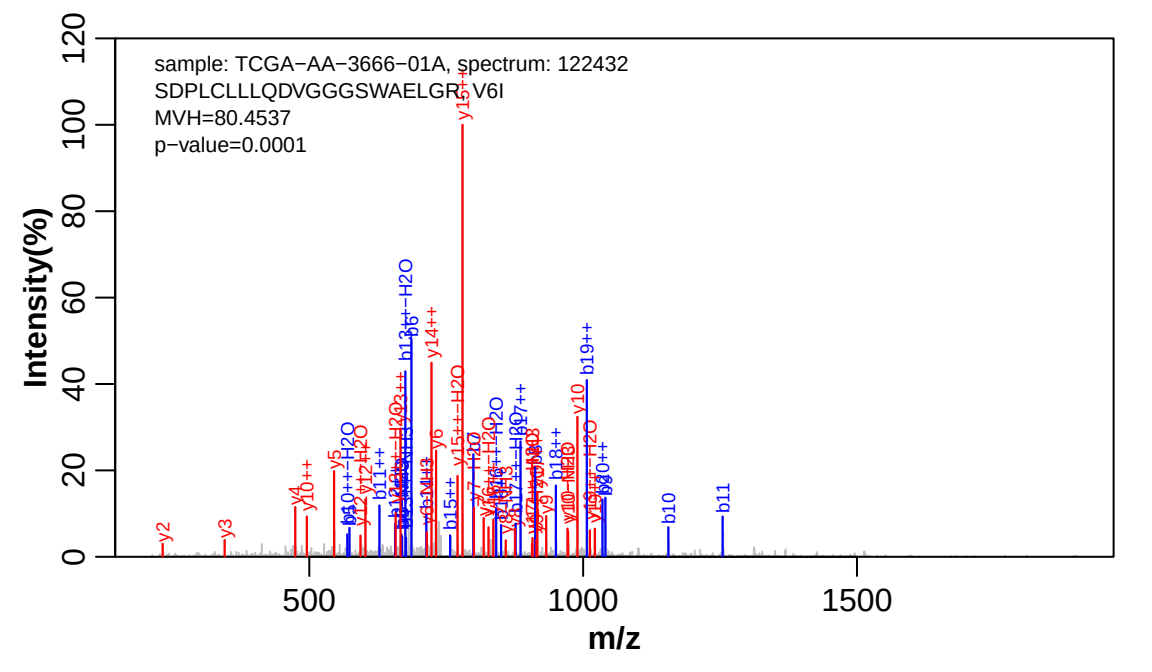

sample: TCGA−AA−3666−01A, spectrum: 78608
NTNSVPETAPAALPETR, K17R
MVH=46.1025
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b4−H2O
b5
b13

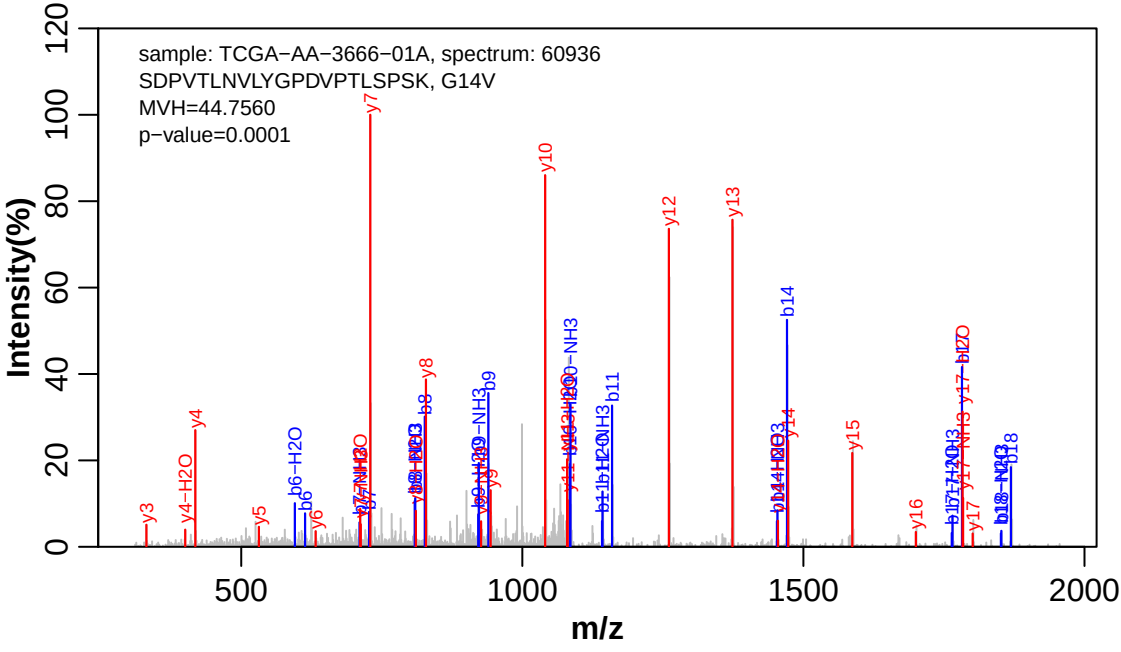

sample: TCGA−AA−3666−01A, spectrum: 37235
QVGDFHQVLLR, A2V
MVH=34.7766
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b5++
y5++−H2O
b6++−H2O
y7++−H2O
y8++−NH2O
y4
y8++
y9++−H2O
y9++
y5

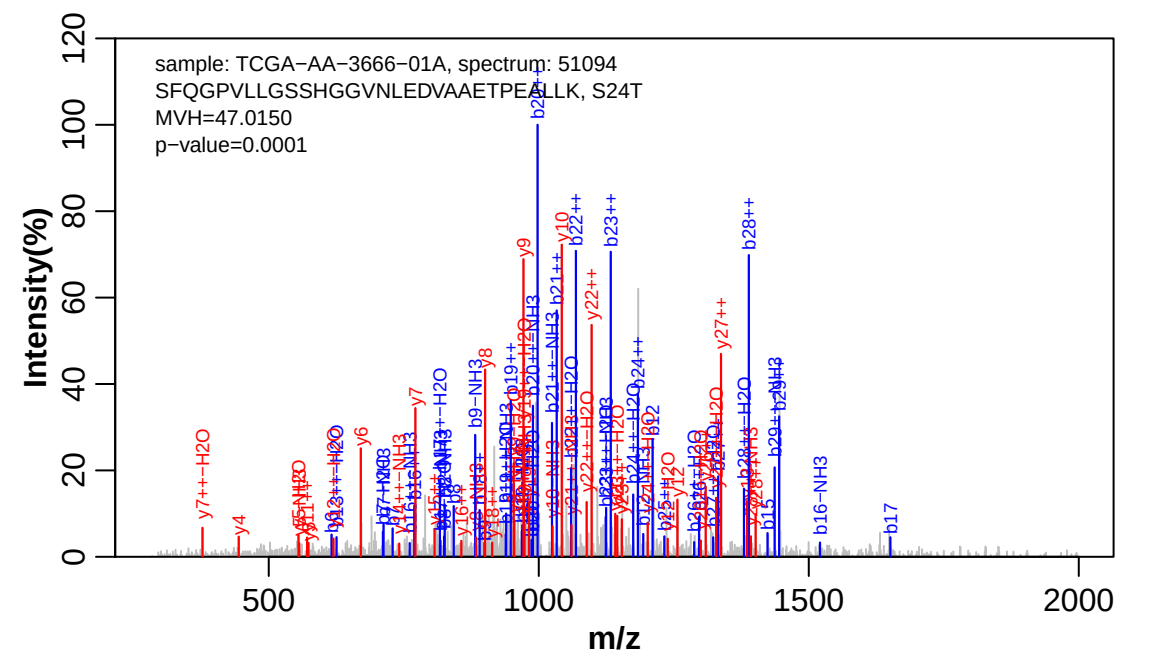

sample: TCGA−AA−3666−01A, spectrum: 7671
RLEGLLEGLGLR, G7E
MVH=46.3183
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y5−NH3
y5
b5
y6−NH3
y6
b6
y7
b7−NH3
b7
b8−H2O
b8
y9
b9
y10−NH3
y10
y11−NH3
y11

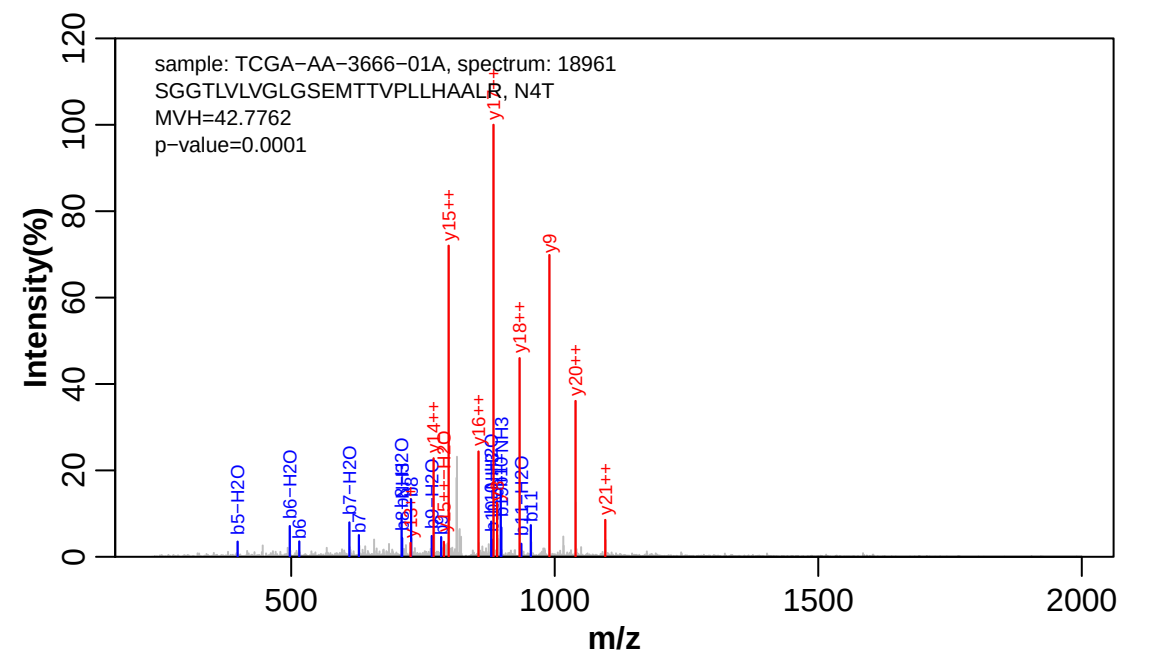

sample: TCGA−AA−3666−01A, spectrum: 152569
RWLLLCNPGLANTLVEK_D12N
MVH=60.4909
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4++−H2O
y3
b6++
b3
b7++−NH3
y4
y10++−H2O
b8++
b9++H2O
y11++
b4
y5
b10++−NH3
b10++
b11++
y12++−H2O
y6
y7
b7
y10−NH3
y10
b9
y11

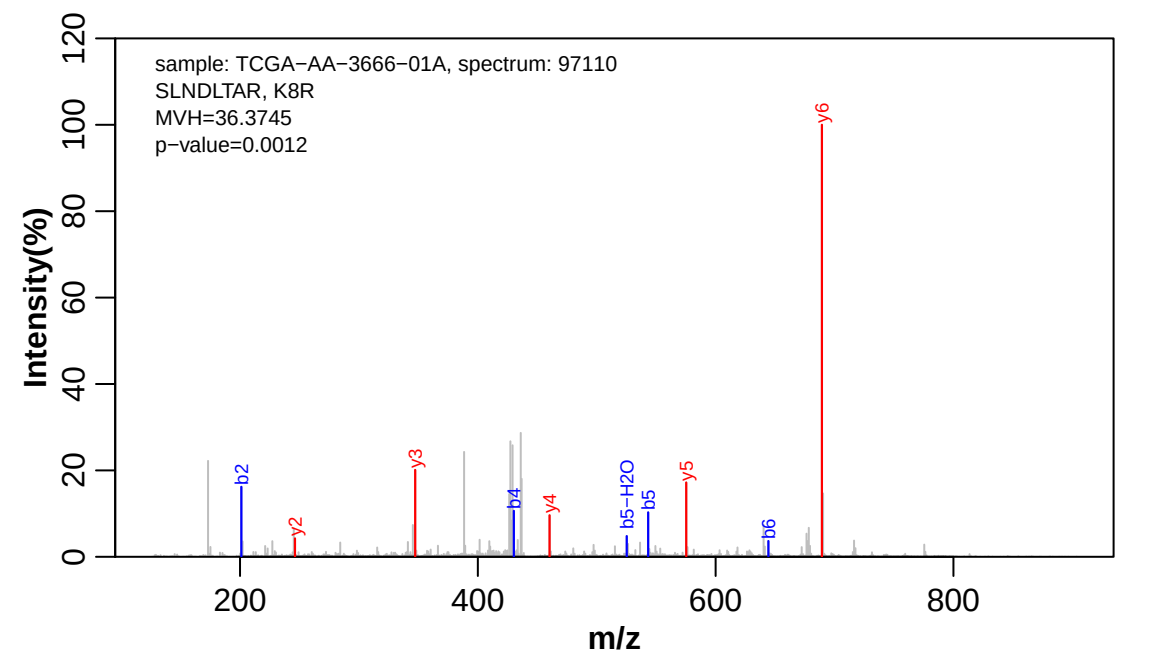

sample: TCGA−AA−3666−01A, spectrum: 151768
SAVGELSEDSSNVVHLLK, Q15H
MVH=59.4096
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y10
y9
y11
y4
y5
y13
b15
b16
b17
y14−NH3
y15
y13−NH3
y10−NH3
b17−H2O
b5−H2O
b6−H2O
b7−H2O
b11−H2O
y3
y6
b8
b10−H2O

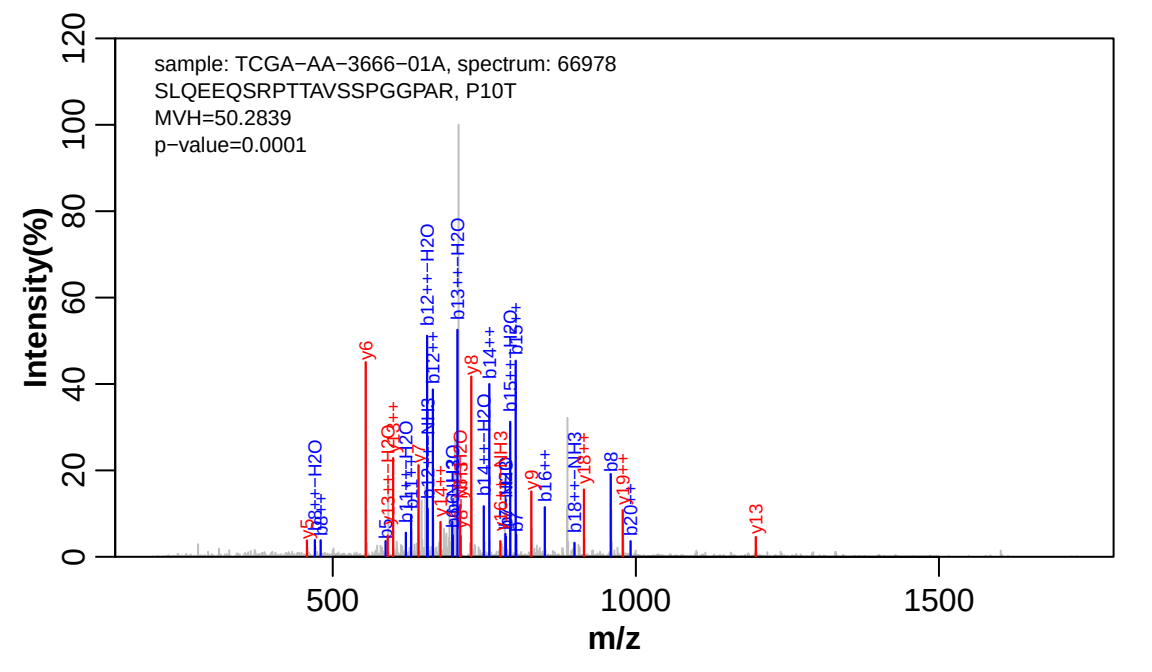

sample: TCGA−AA−3666−01A, spectrum: 122432
SDPLCLLLQDVGGGSWAELGRLV6I
MVH=80.4537
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y14++
y10++
y5
y6
y4
y3
y2
b11++
b19++
b10
b11

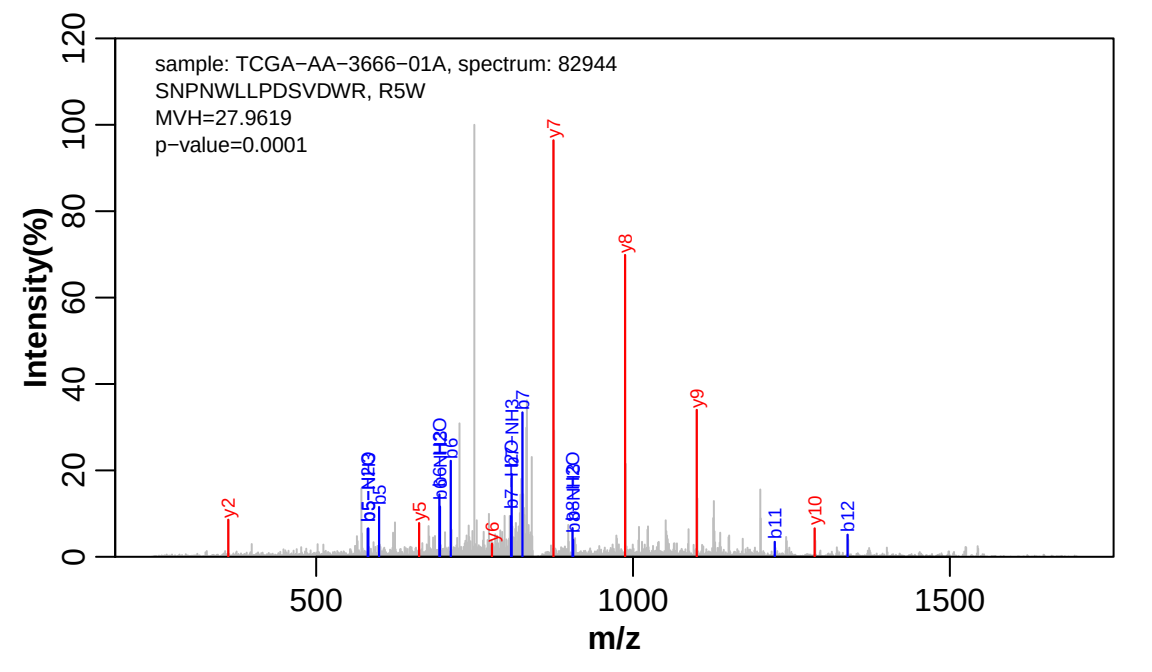

sample: TCGA−AA−3666−01A, spectrum: 60936
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=44.7560
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y4−H2O
y5
b6−H2O
b6
y6
y7
y8
b8
b9
b9−NH3
y9
y10
y11
y12
y13
b11
b14
y14
y15
y16
y17
y17−NH3
b18
b18−NH3

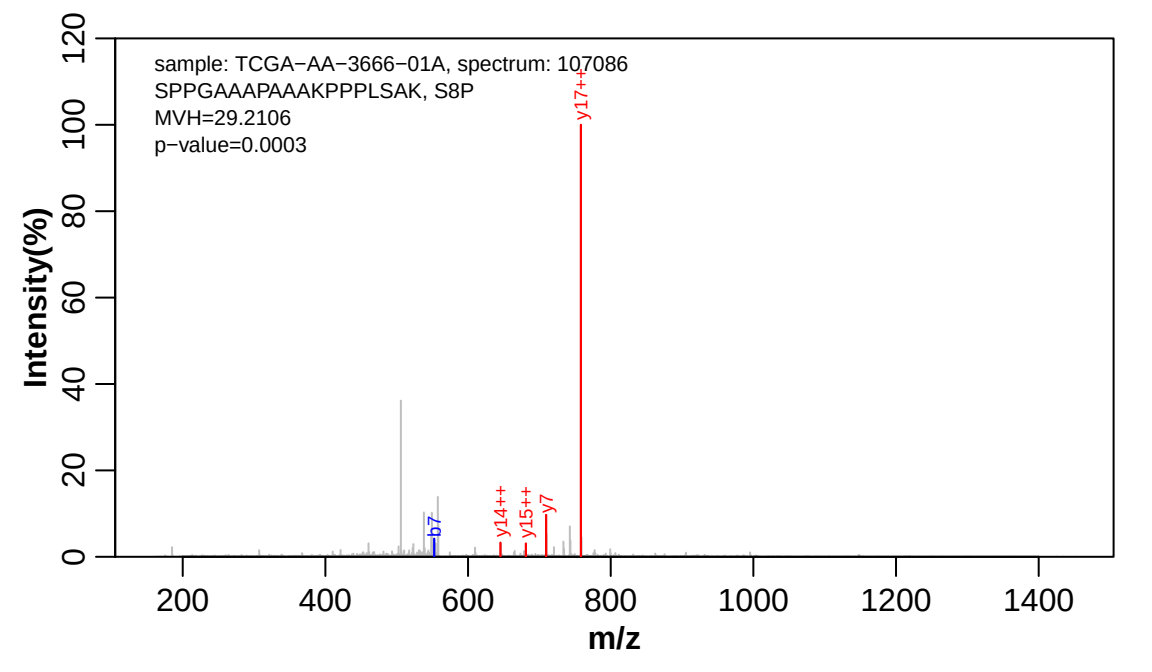

sample: TCGA−AA−3666−01A, spectrum: 51094
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=47.0150
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2++
y7++−H2O
y4
y6
y9
y8
b9−NH3
y7
b8
b16−NH3
b17
b15
b28++
b23++
b22++
y22++
y10
b21++
y27++
y24++
b24++
b19++
b20++−H2O
b21++−NH3
b21++−H2O
b22++−H2O
b23++−H2O
b24++−H2O
b28++−H2O
b29++−NH3
y10−NH3
y15++
y16++
y18++
y22++−H2O
y23++−H2O
y24++−H2O
y25++H2O
y12++
b2
b25++H2O
b26++H2O
b27++H2O
b28++H2O
b29++H2O

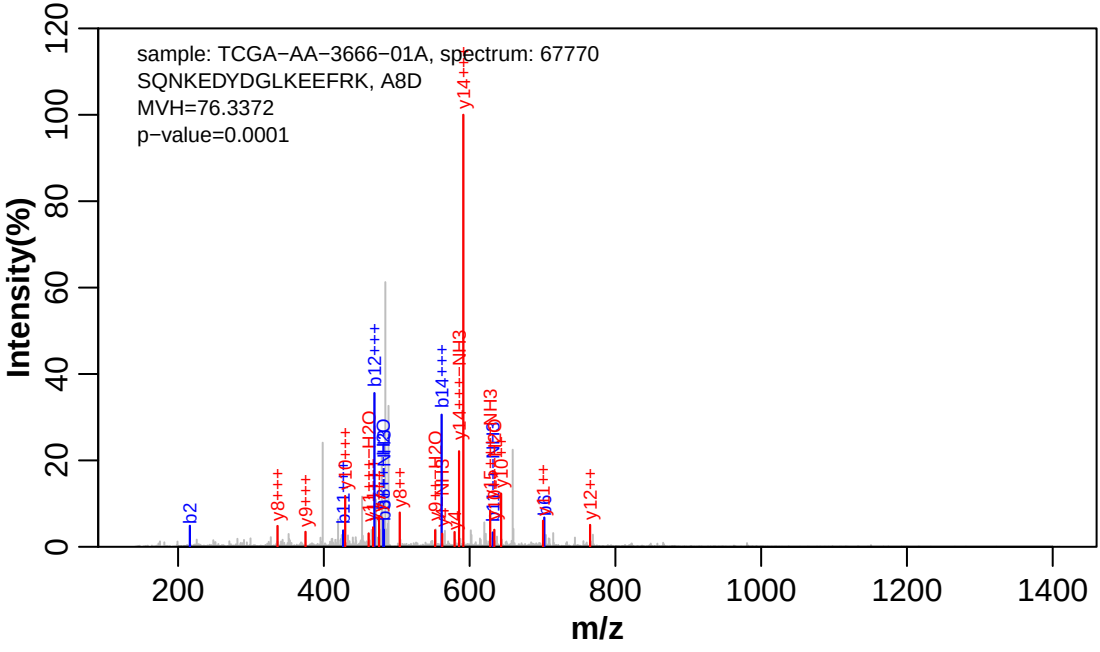

sample: TCGA−AA−3666−01A, spectrum: 18961
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=42.7762
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y9
y18++
y20++
y16++
y14++
y21++
b5−H2O
b6−H2O
b7−H2O
b11−H2O

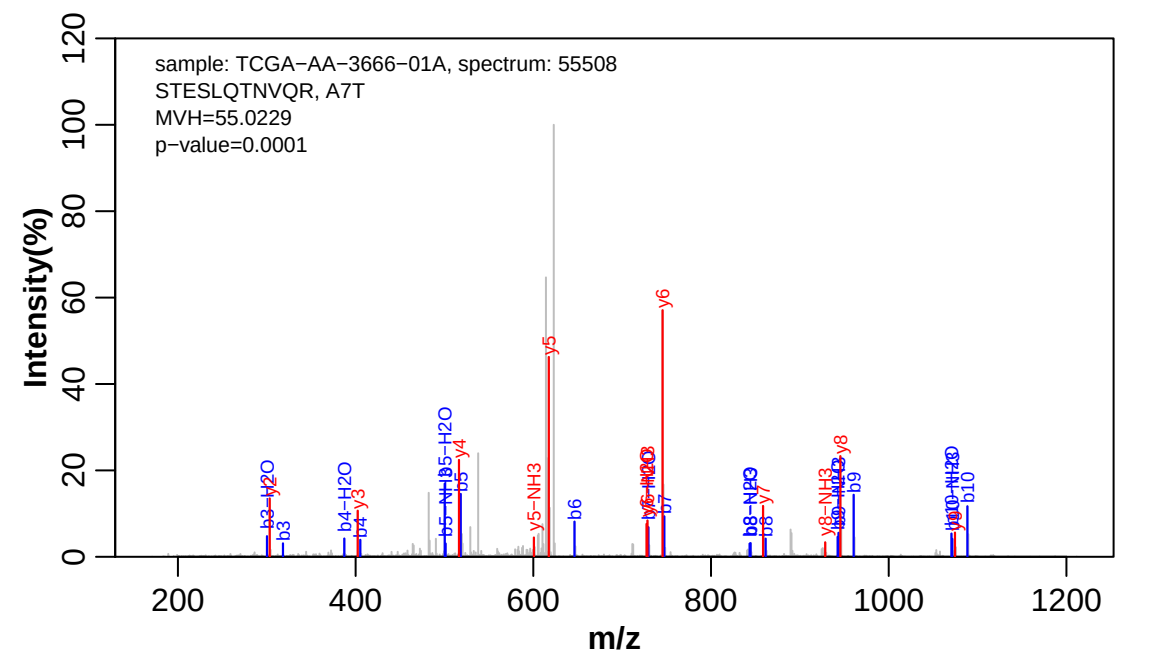

sample: TCGA−AA−3666−01A, spectrum: 97110
SLNDLTAR, K8R
MVH=36.3745
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
y3
b4
y4
b5−H2O
b5
y5
b6
y6

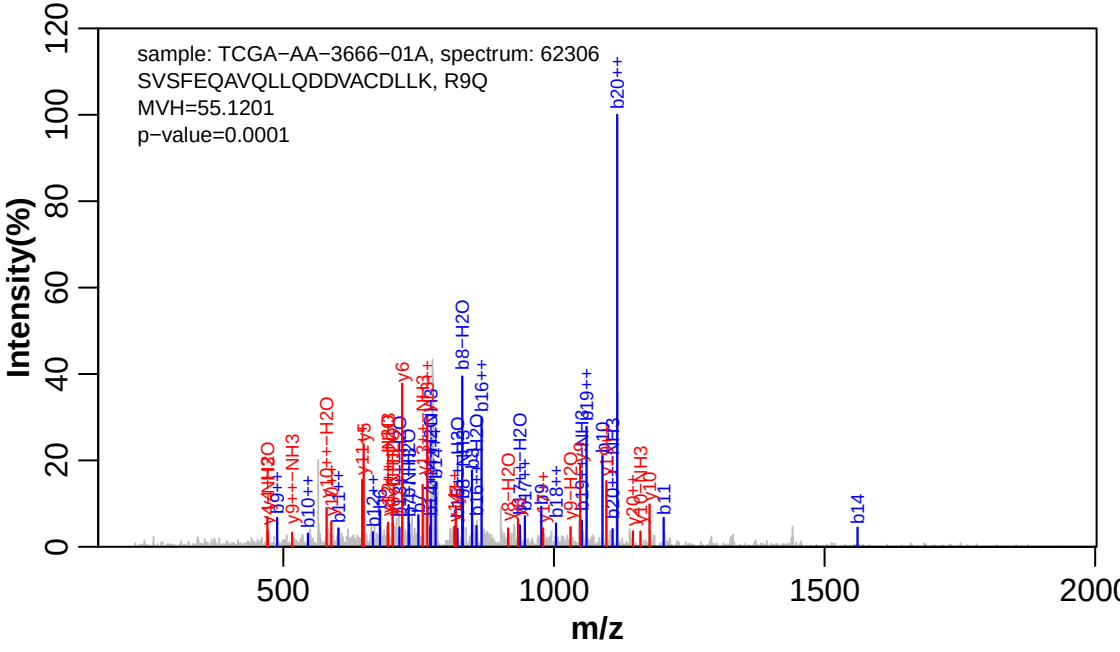

sample: TCGA−AA−3666−01A, spectrum: 66978
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=50.2839
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y8
y13
b12++−H2O
b13++−H2O
b14++
b14++−H2O
b15++−H2O
b16++
b18++−NH3
y18++
b8
y19++
b20++
y5
b5
y14++
y9

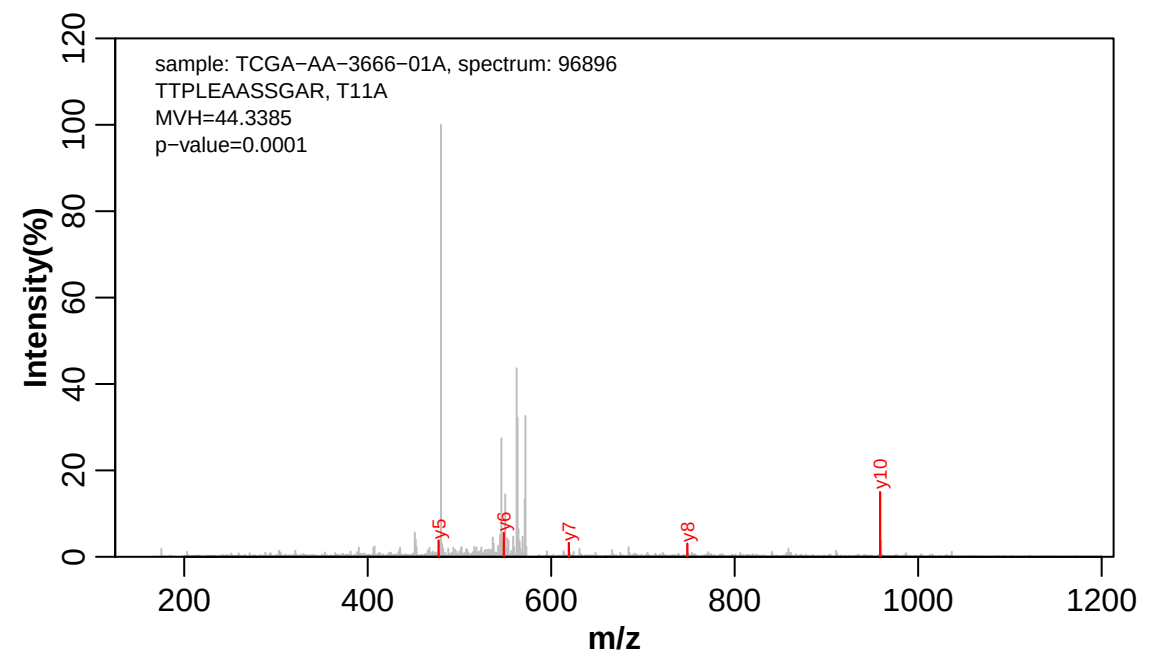

sample: TCGA−AA−3666−01A, spectrum: 82944
SNPNWLLPDSVDWR, R5W
MVH=27.9619
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y5
y6
y7
y8
y9
y10
b11
b12

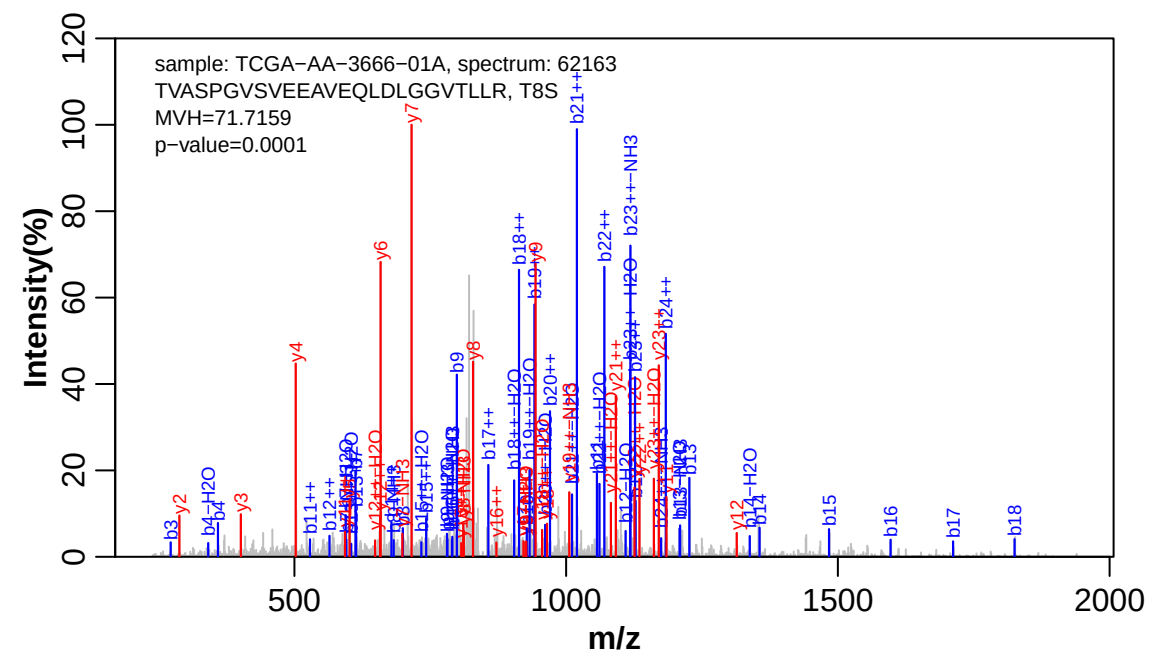

sample: TCGA−AA−3666−01A, spectrum: 107086
SPPGAAAPAAAKPPPLSAK, S8P
MVH=29.2106
p−value=0.0003
y17++
y14++
y15++
y7
b7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

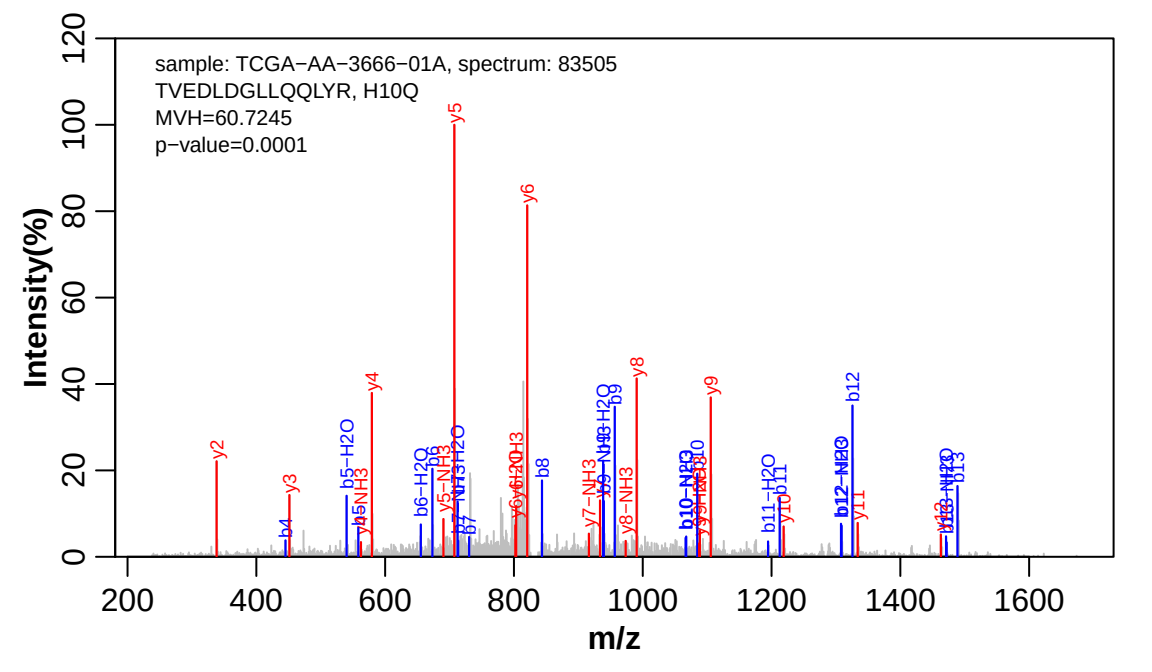

sample: TCGA−AA−3666−01A, spectrum: 67770
SQNKEDYDGLKEEFRK, A8D
MVH=76.3372
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y8+++
y9+++
b11
y10+++
b12+++
y8++
b14+++
y14++
y14+++−NH3
y12++

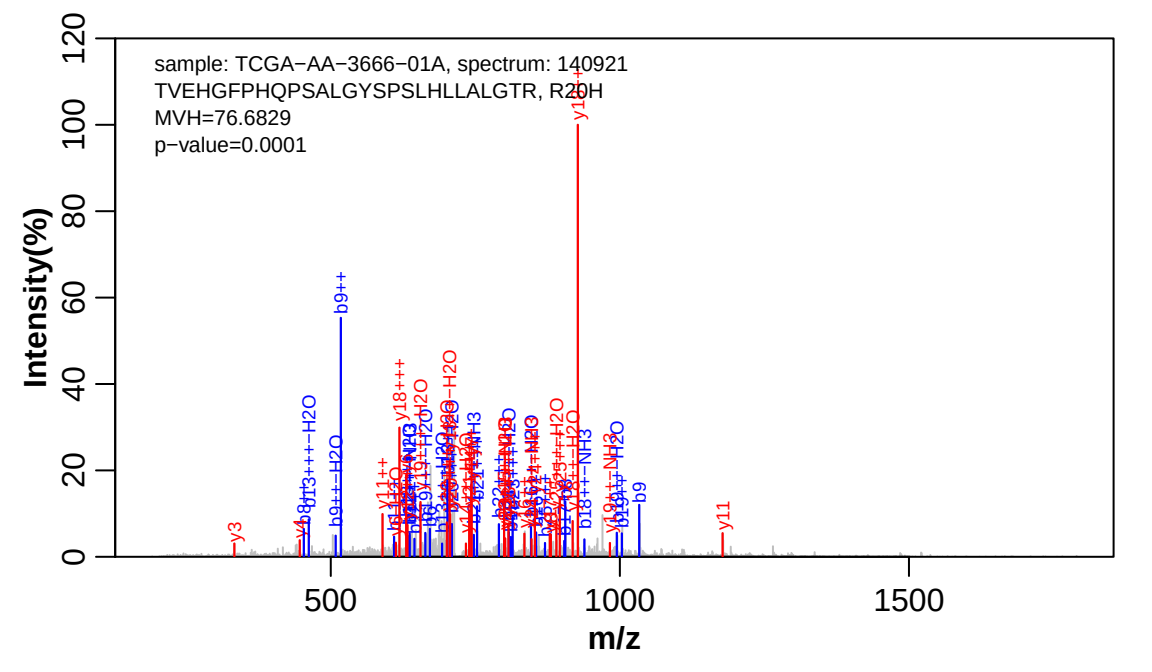

sample: TCGA−AA−3666−01A, spectrum: 55508
STESLQTNVQR, A7T
MVH=55.0229
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
b3
b4−H2O
b4
y3
b5−NH3
b5−H2O
b5
y4
y5−NH3
y5
b6
y6
b7
b8−NH3
b8
y7
y8−NH3
y8
b9
b10−NH3
b10

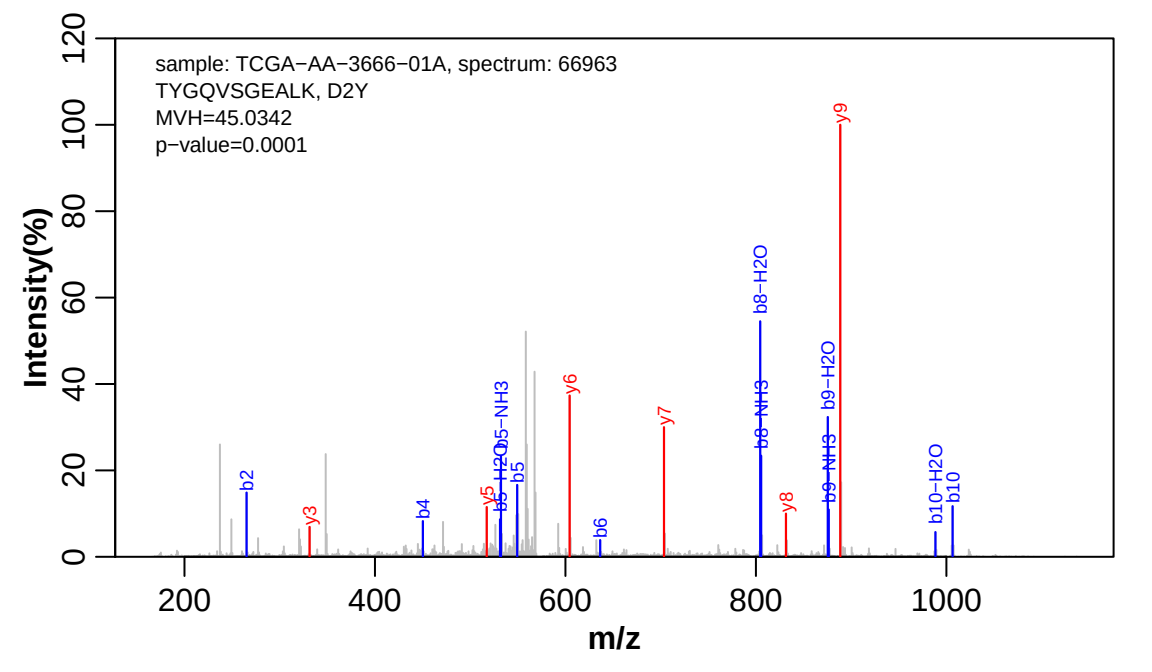

sample: TCGA−AA−3666−01A, spectrum: 62306
SVSFEQAVQLLQDDVACDLLK, R9Q
MVH=55.1201
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b20++
b8−H2O
b16++
y6
b14

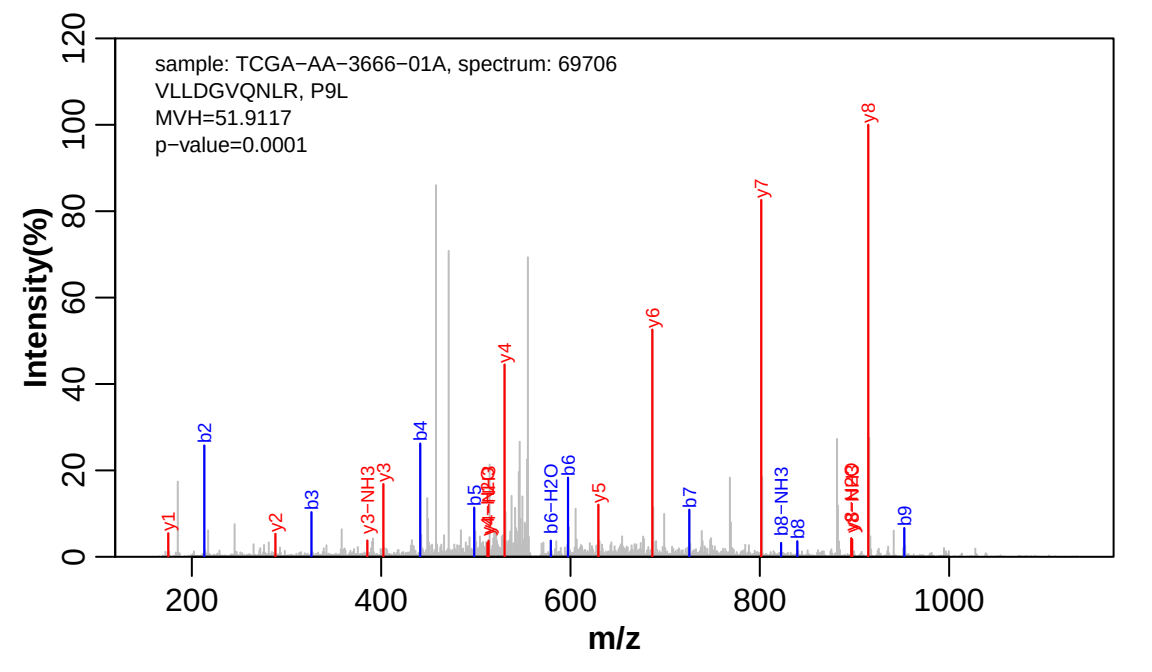

sample: TCGA−AA−3666−01A, spectrum: 96896
TTPLEAASSGAR, T11A
MVH=44.3385
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y5
y6
y7
y8
y10

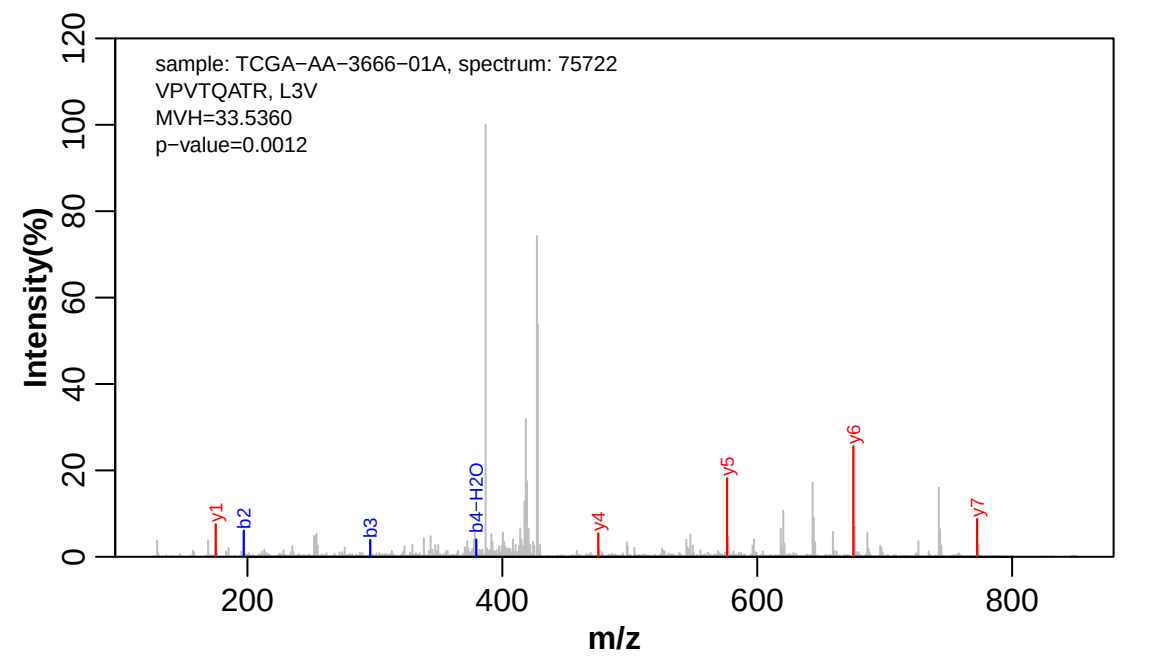

sample: TCGA−AA−3666−01A, spectrum: 62163
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=71.7159
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y4
y8
b21++
b18++
b22++
b23++−NH3
b24++
y2
b3
y3
b4−H2O
b11++
b12++
b9
b17++
y16++
b20++
y12
b14
b15
b16
b17
b18

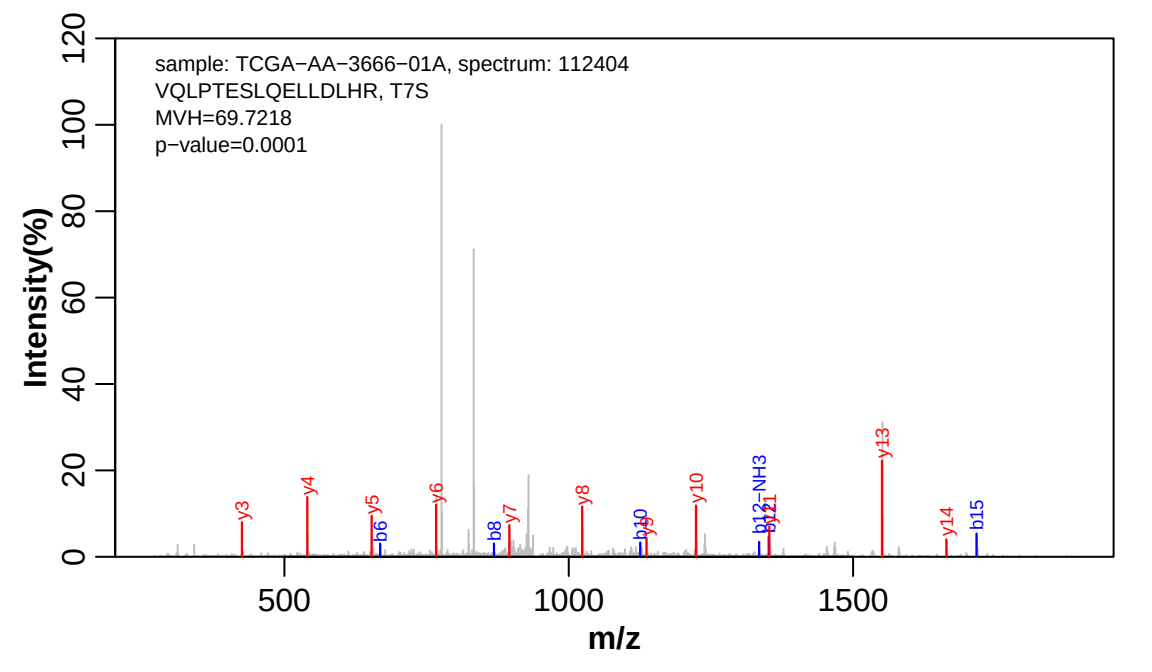

sample: TCGA−AA−3666−01A, spectrum: 83505
TVEDLDGLLQQLYR, H10Q
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
y9
b12
b5−H2O
b6−H2O
b8
b9
y11
y10
b11−H2O
b13

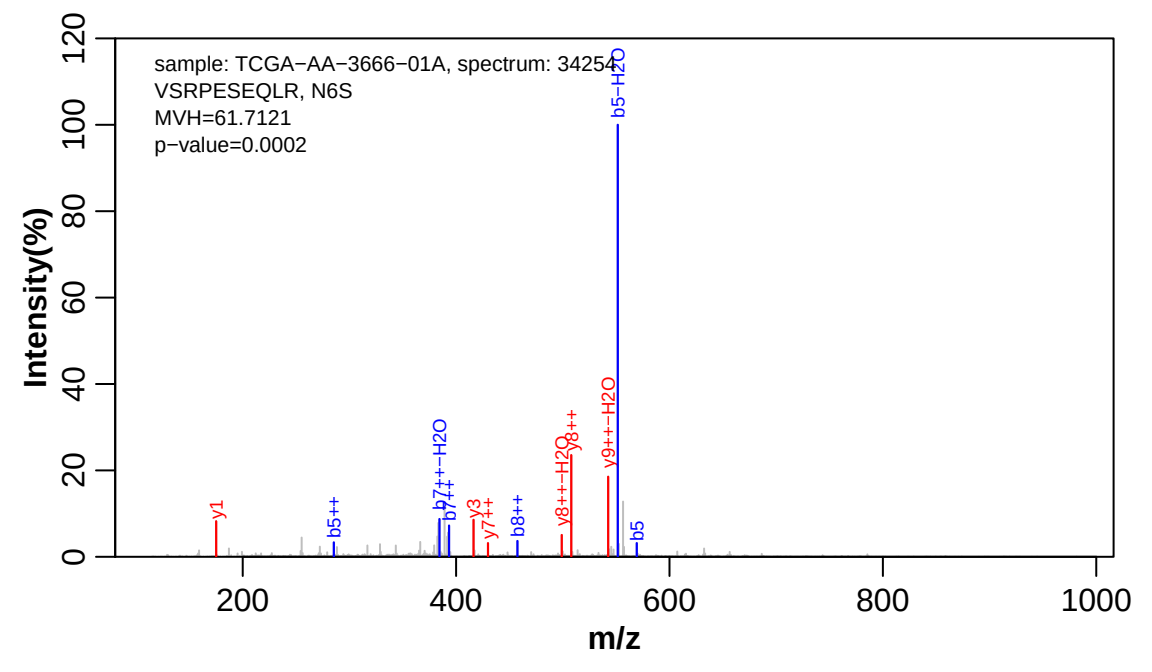

sample: TCGA−AA−3666−01A, spectrum: 140921
TVEHGFPHQPSALGYSPSLHLLALGTR, R20H
MVH=76.6829
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10++
b9++
y18+++−H2O
b9++−H2O
y18+++
y11++
b18+++−NH3
b9
y11
y3

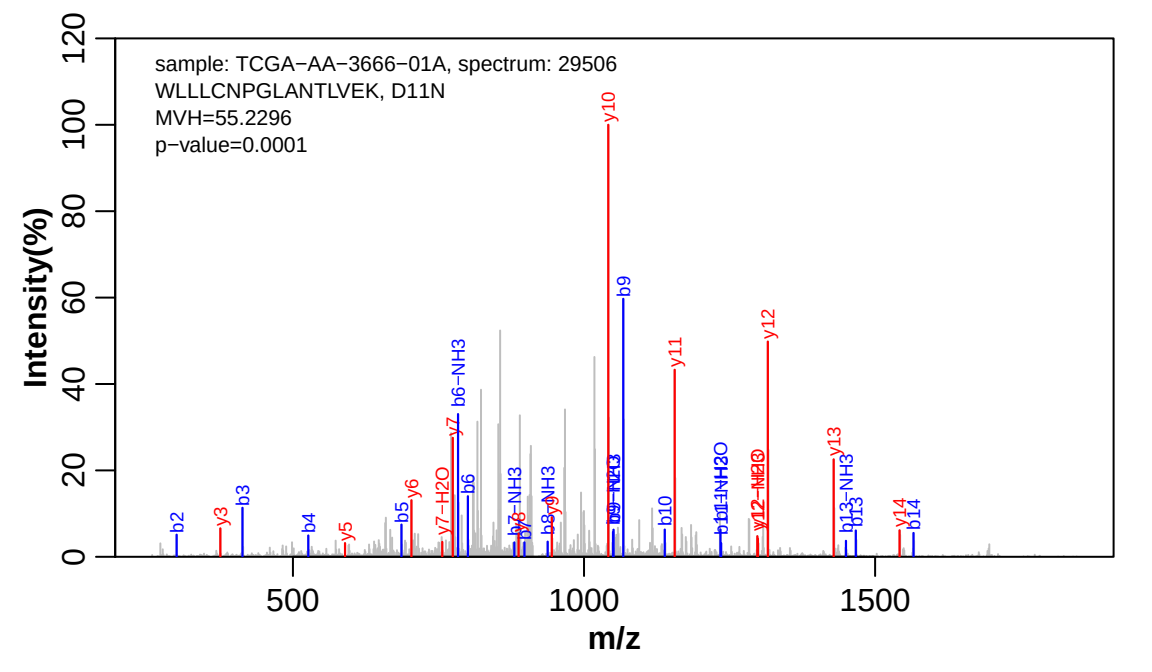

sample: TCGA−AA−3666−01A, spectrum: 66963
TYGQVSGEALK, D2Y
MVH=45.0342
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3
b4
y5
b5−H2O
b5−NH3
b5
y6
b6
y7
b8−H2O
b8−NH3
y8
b9−H2O
b9−NH3
y9
b10−H2O
b10

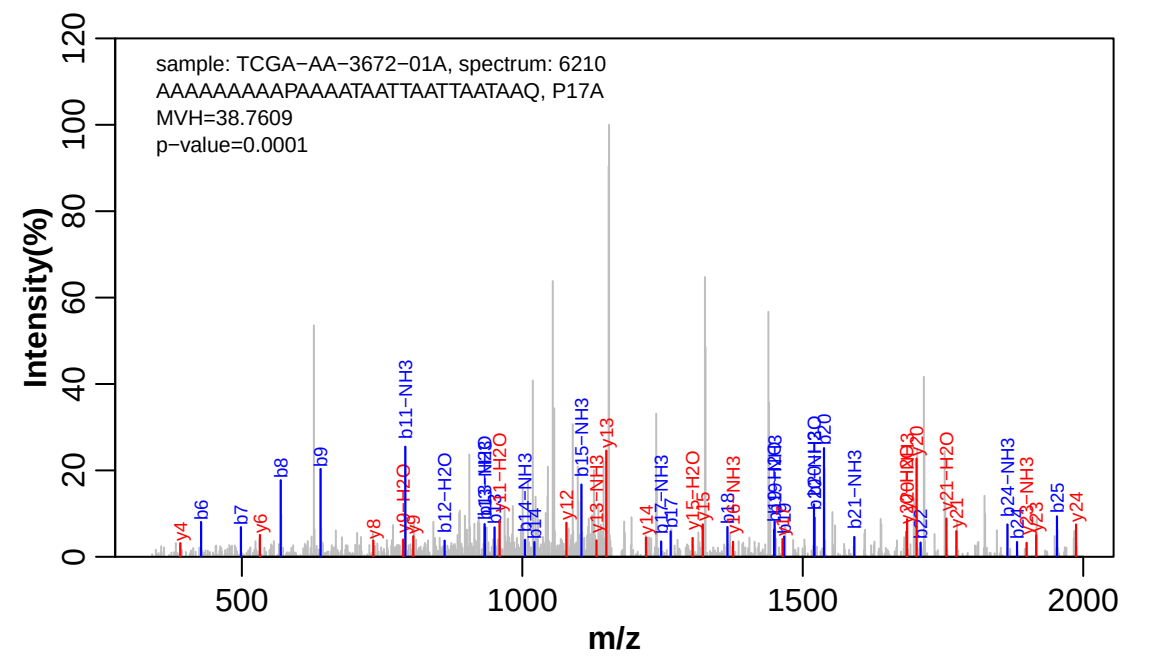

sample: TCGA−AA−3666−01A, spectrum: 69706
VLLDGVQNLR, P9L
MVH=51.9117
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4−NH3
y4
b6−H2O
b6
y5
y6
b7
b8−NH3
b8
y8−NH3
y8
y7
b9

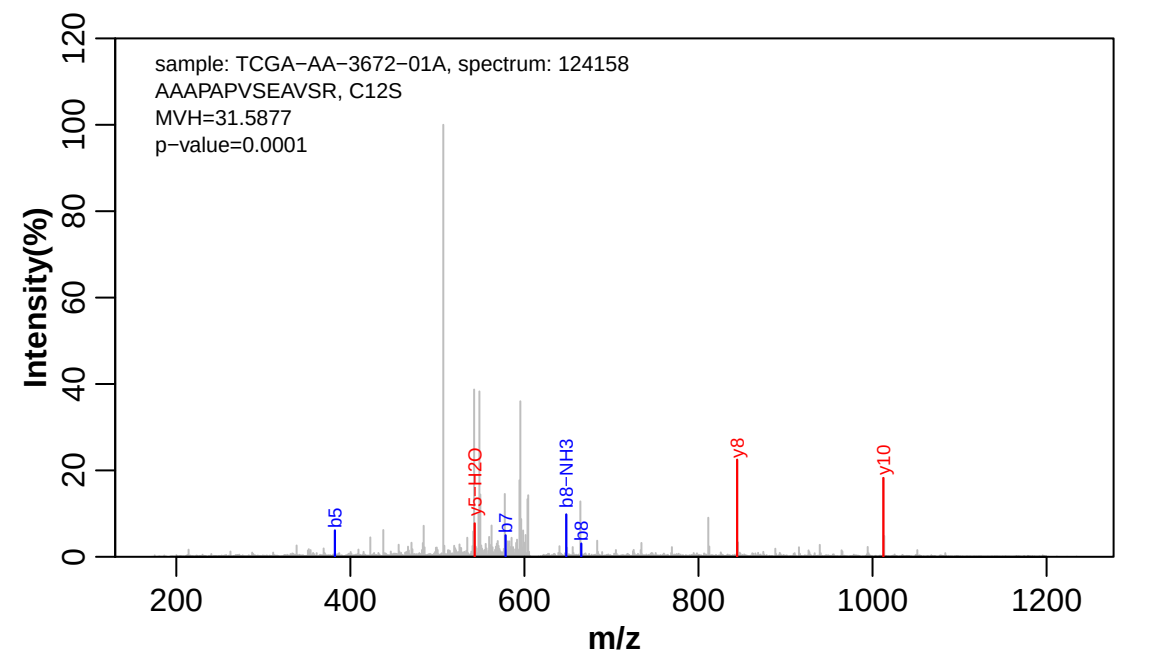

sample: TCGA−AA−3666−01A, spectrum: 75722
VPVTQATR, L3V
MVH=33.5360
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
b4−H2O
y4
y5
y6
y7

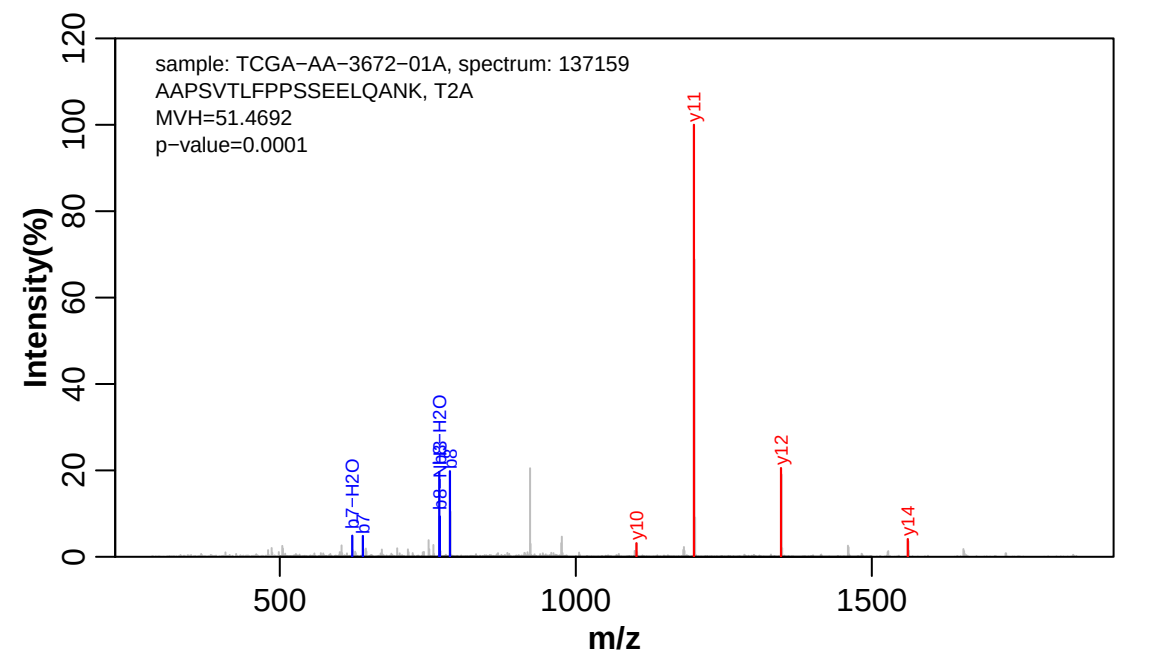

sample: TCGA−AA−3666−01A, spectrum: 112404
VQLPTESLQELLDLHR, T7S
MVH=69.7218
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b6
y6
b8
y7
y8
b10
y9
y10
b12−NH3
b12
y13
y14
b15

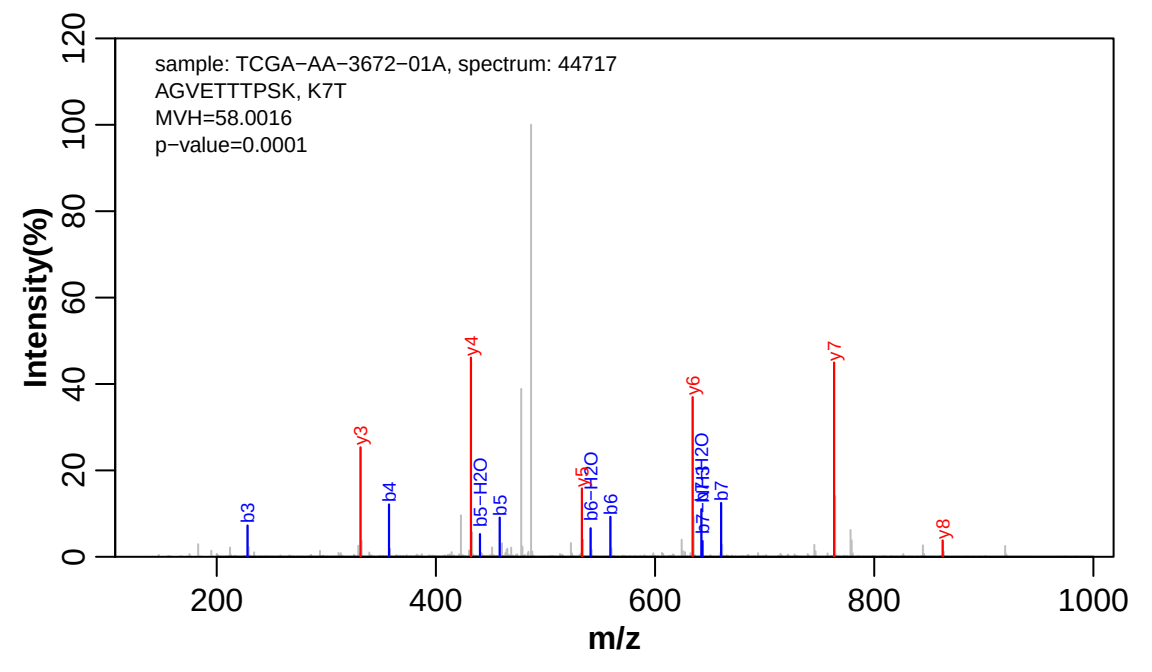

sample: TCGA−AA−3666−01A, spectrum: 34254
VSRPESEQLR, N6S
MVH=61.7121
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b5++
b7++−H2O
b7++
y3
y7++
b8++
y8++−H2O
y8++
y9++−H2O
b5−H2O
b5

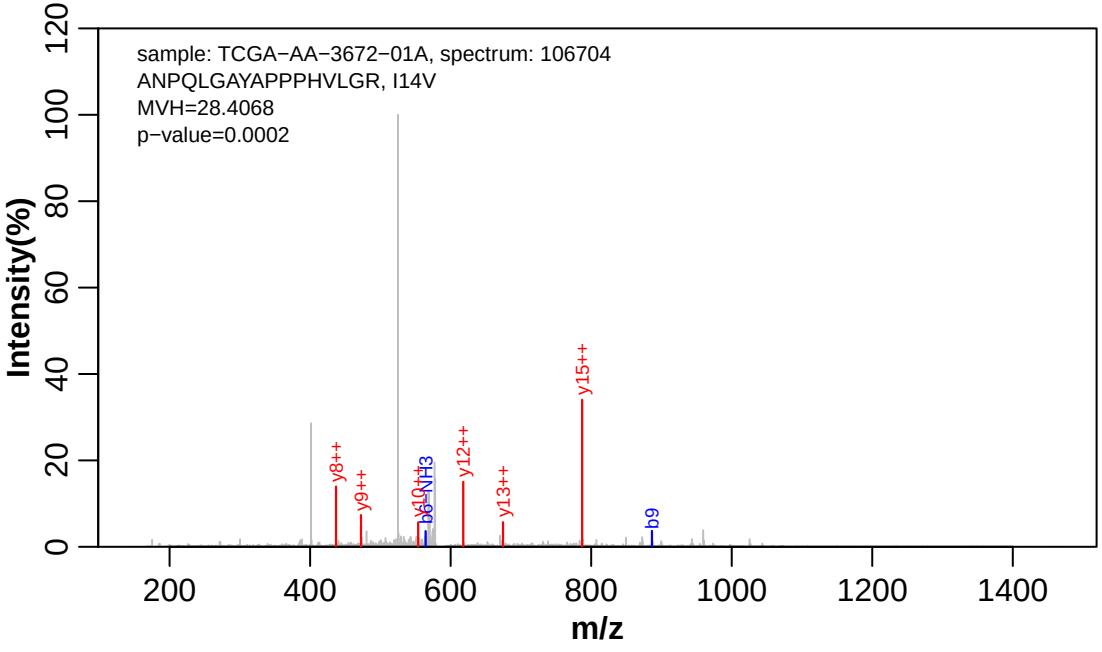

sample: TCGA−AA−3666−01A, spectrum: 29506
WLLLCNPGLANTLVEK, D11N
MVH=55.2296
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
b4
y5
b5
y6
y7−H2O
y7
b6
b6−NH3
b7−NH3
b8−NH3
y10
b9
y11
b10
y12
y13
b13−NH3
b13
y14
b14

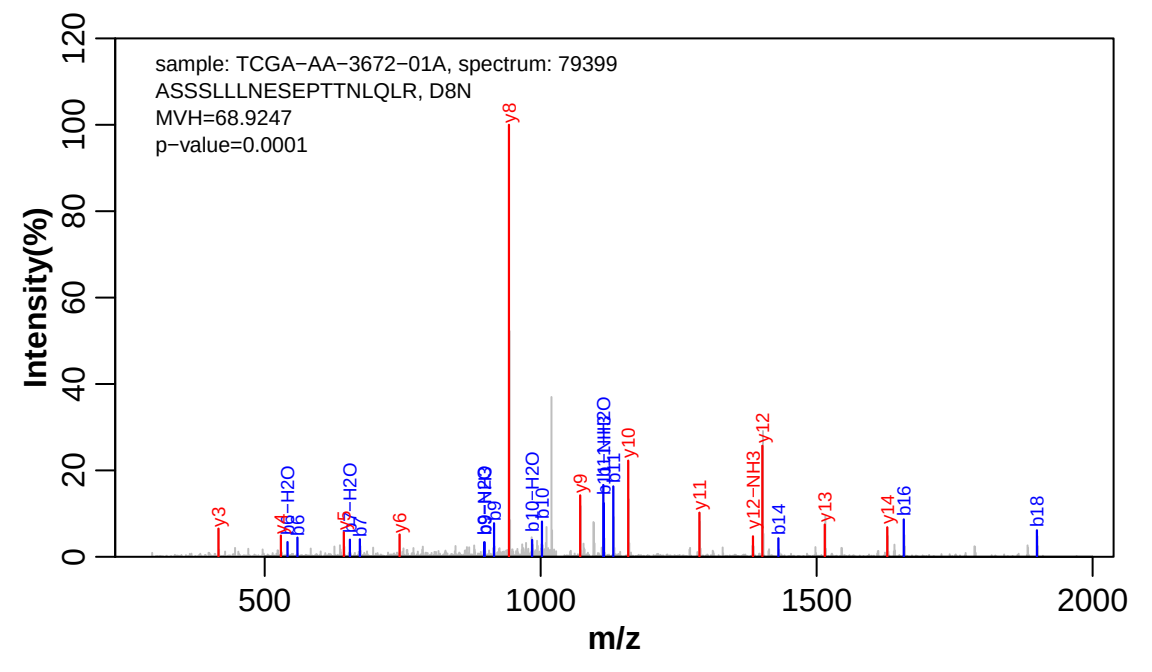

sample: TCGA−AA−3672−01A, spectrum: 6210
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=38.7609
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b6
b7
y6
b8
b9
y8
y9−H2O
b11−NH3
b12−H2O
y11−H2O
b14−NH3
y12
b15−NH3
y13−NH3
y13
y14
b17−NH3
y15−H2O
b18
y16−NH3
b21−NH3
b20
y21−H2O
b24−NH3
y23−NH3
b25
y24

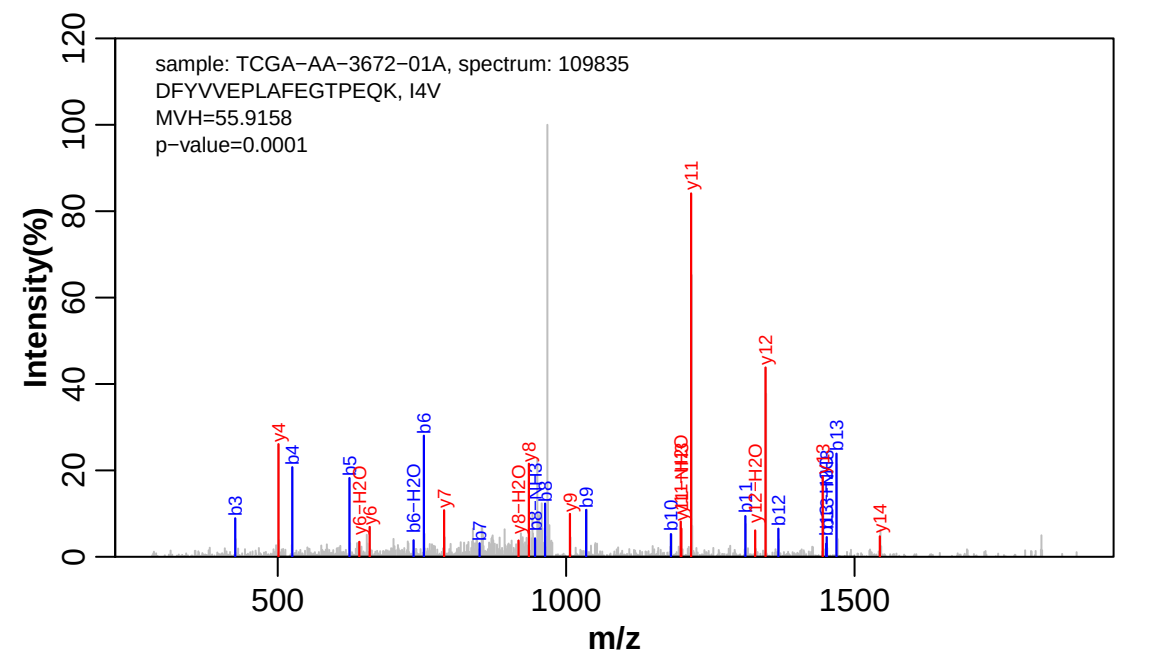

sample: TCGA−AA−3672−01A, spectrum: 124158
AAAPAPVSEAVSR, C12S
MVH=31.5877
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b5
y5−H2O
b7
b8−NH3
b8
y8
y10

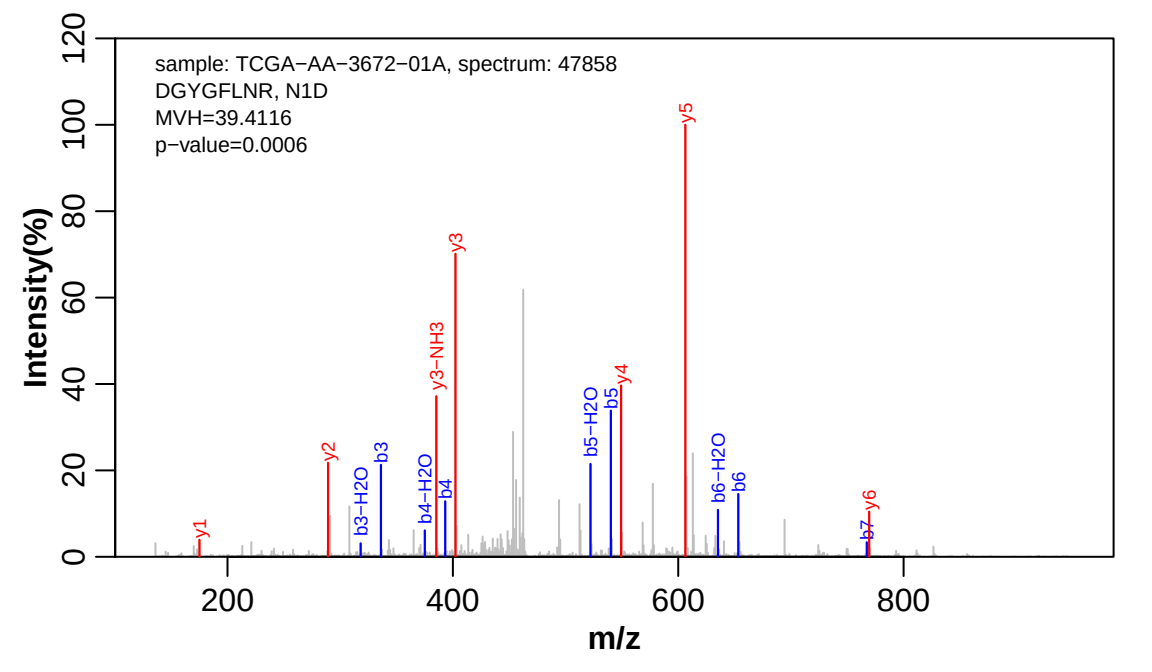

sample: TCGA−AA−3672−01A, spectrum: 137159
AAPSVTLFPPSSEELQANK, T2A
MVH=51.4692
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
y10
b7−H2O
b7
b8−NH3−H2O
b8

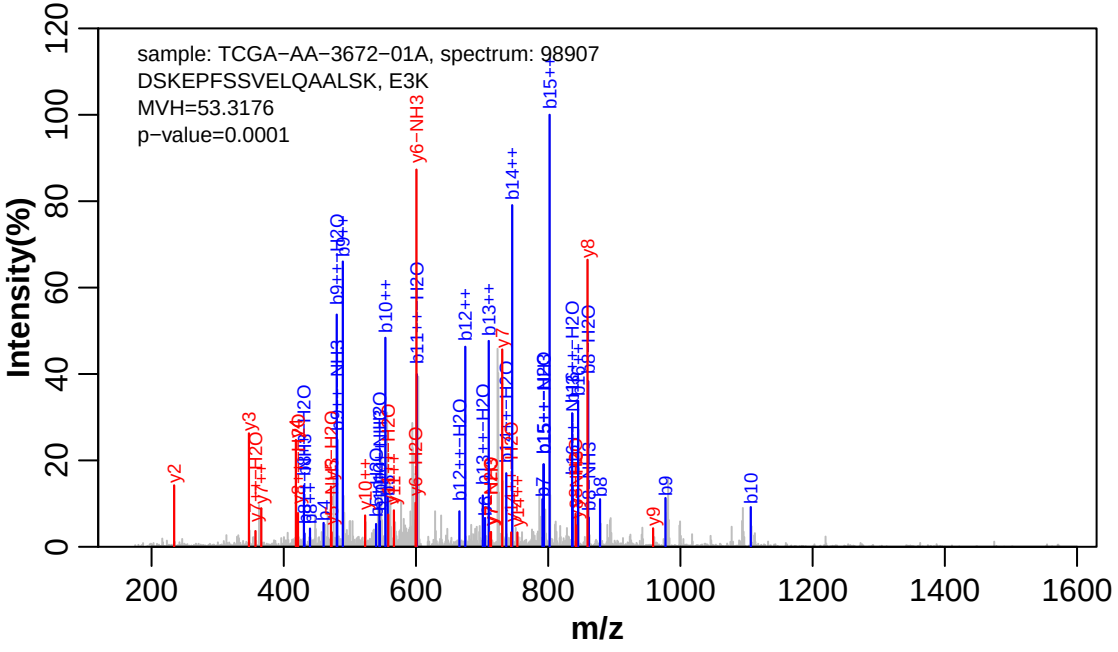

sample: TCGA−AA−3672−01A, spectrum: 44717
AGVETTTPSK, K7T
MVH=58.0016
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
b6−H2O
y5
b6
y6
b7−NH3
b7−H2O
b7
y7
y8

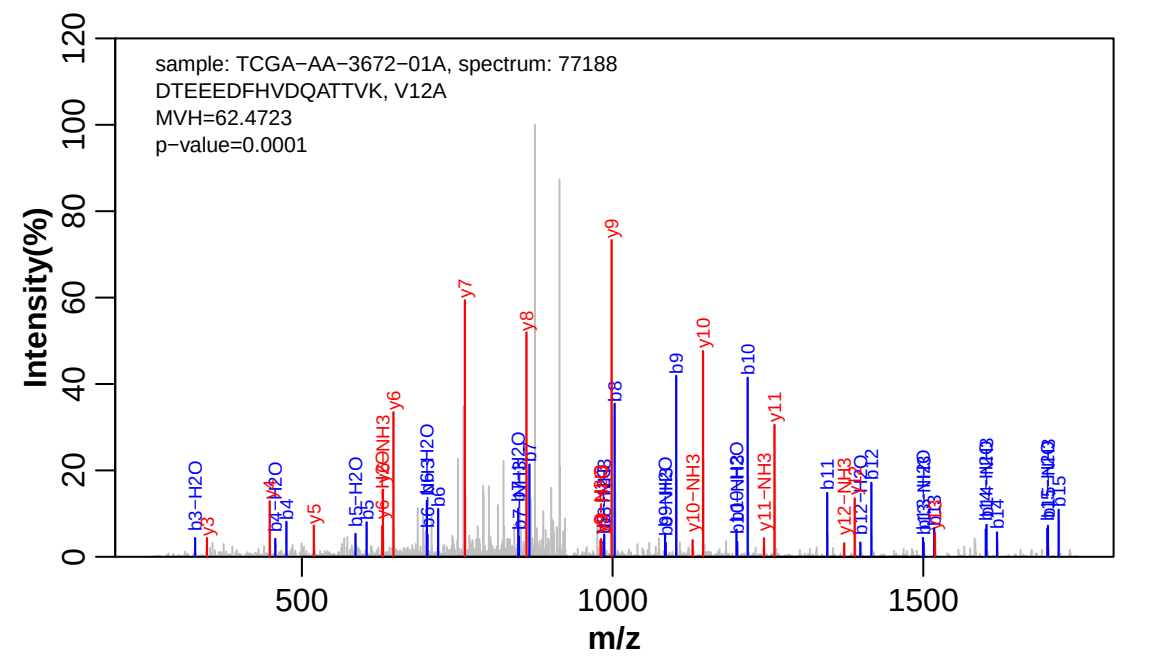

sample: TCGA−AA−3672−01A, spectrum: 106704
ANPQLGAYAPPPHVLGR, I14V
MVH=28.4068
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y8++
y9++
b6−NH3
y12++
y13++
y15++
b9

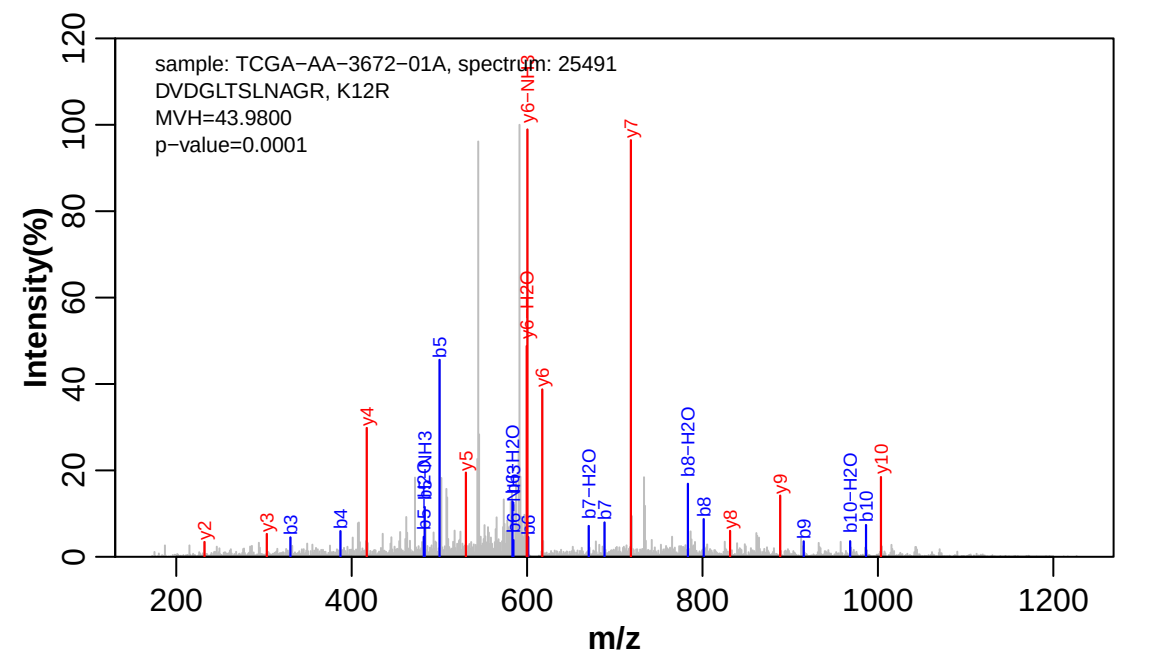

sample: TCGA−AA−3672−01A, spectrum: 79399
ASSSLLLNESEPTTNLQLR, D8N
MVH=68.9247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
y4−H2O
b6
y5
y5−H2O
b7
y6
b9−NH3
b9
b10−H2O
b10
y9
b11−NH3
b11−H2O
b11
y10
y11
y12−NH3
y12
b14
y13
y14
b16
b18

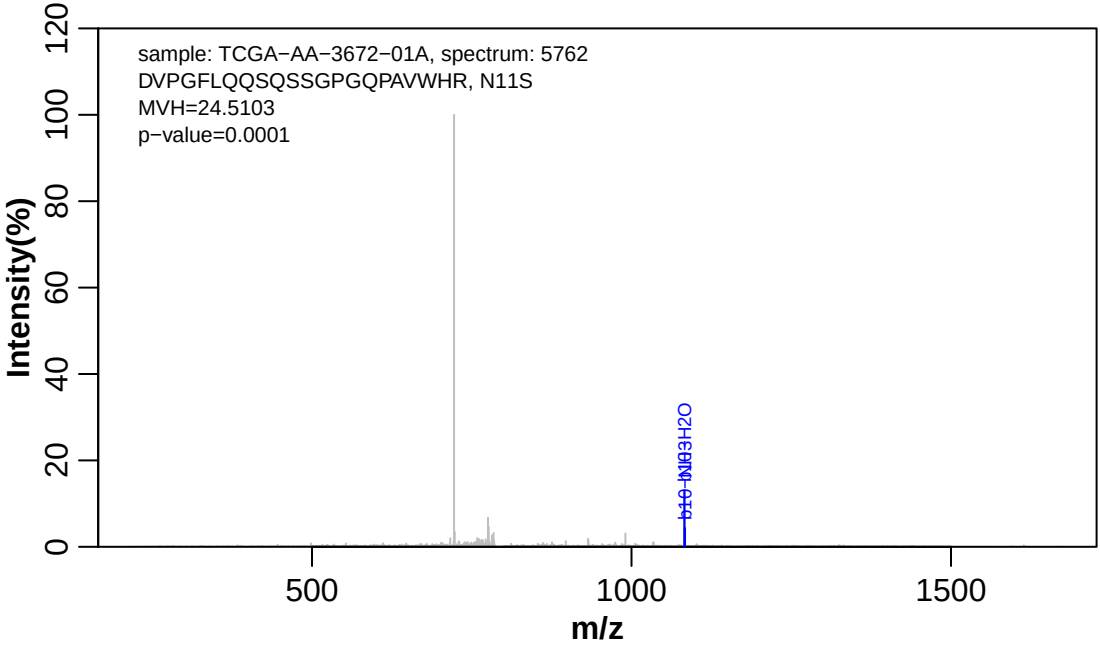

sample: TCGA−AA−3672−01A, spectrum: 109835
DFYVVEPLAFEGTPEQK, I4V
MVH=55.9158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
b5
y6−H2O
y6
b6−H2O
b6
y7
b7
y8−H2O
y8
b8−NH3
b8
y9
b9
y11
b10
y11−NH3
y11−H2O
y12
b11
y12−H2O
b12
b13
y14

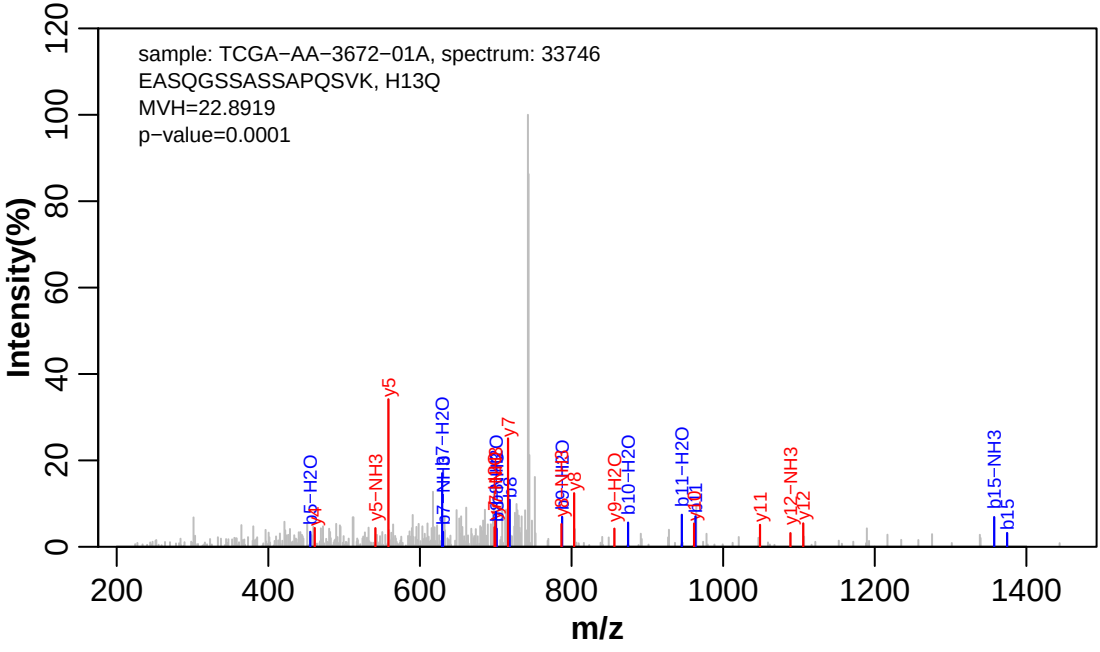

sample: TCGA−AA−3672−01A, spectrum: 47858
DGYGFLNR, N1D
MVH=39.4116
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

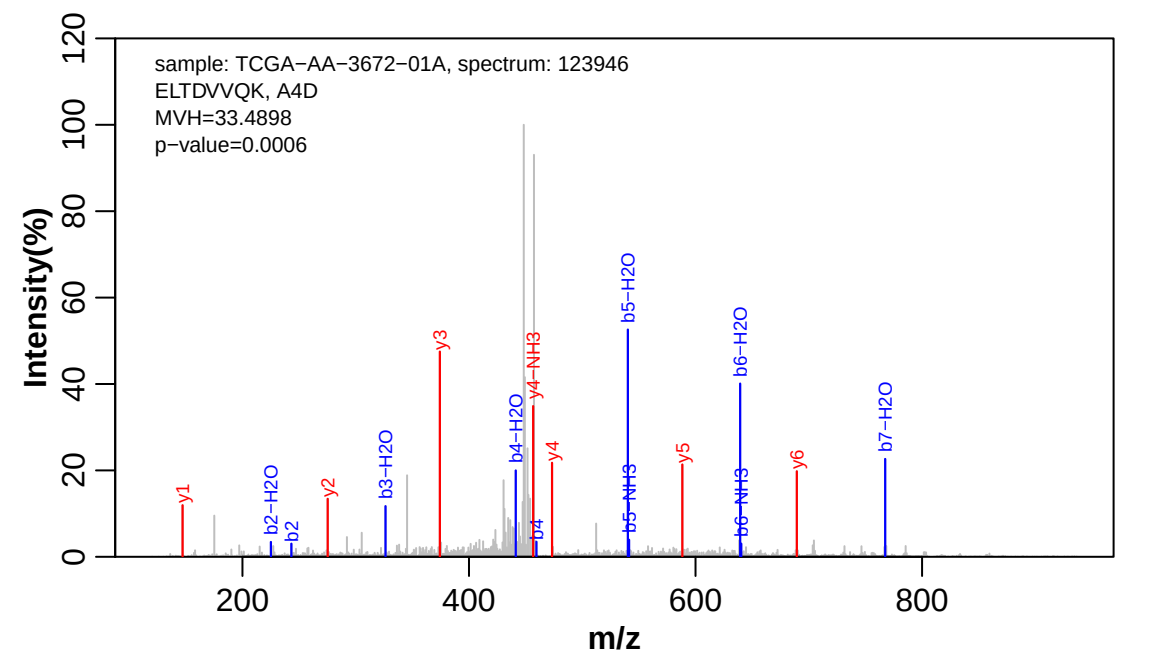

sample: TCGA−AA−3672−01A, spectrum: 98907
DSKEPFSSVELQAALSK, E3K
MVH=53.3176
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6−NH3
b15++
b14++
y8
b11++ H2O
b10++
b12++
b13++
y2
y3
b9
b10

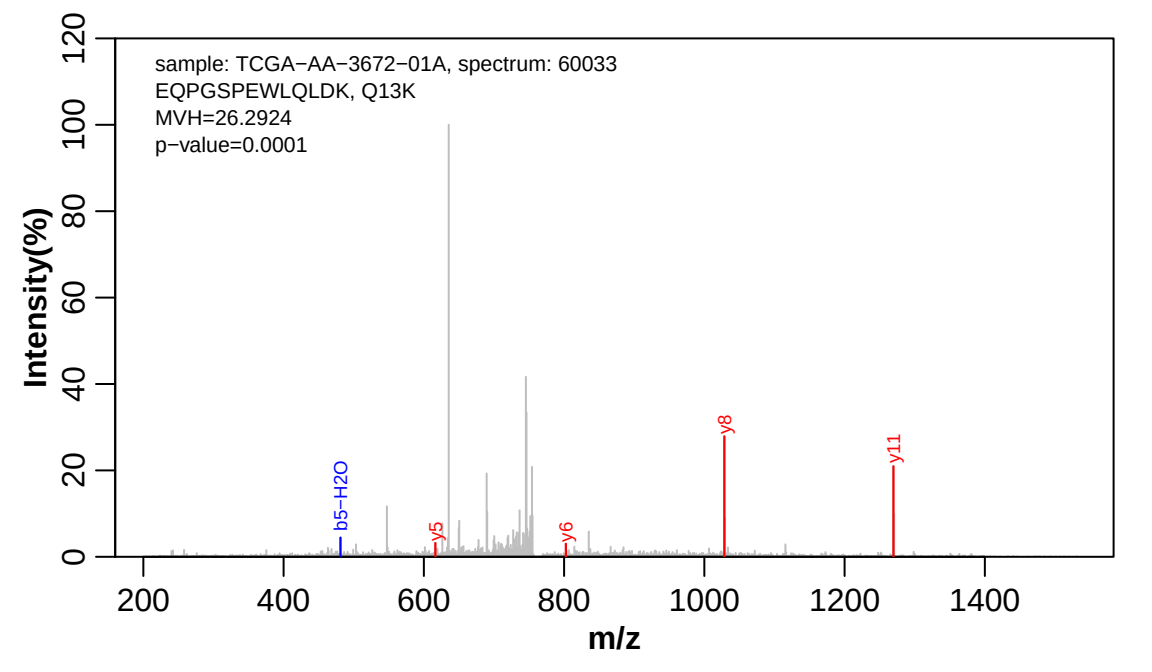

sample: TCGA−AA−3672−01A, spectrum: 77188
DTEEEDFHVDQATTVK, V12A
MVH=62.4723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y8
y7
y10
b9
b10
y11
y6
b8
y5
b11
y12−NH3
b12
y10−NH3
y11−NH3
b12−H2O
b14
b15
b3−H2O
y3
b4
b5−H2O
b5
b6
b7

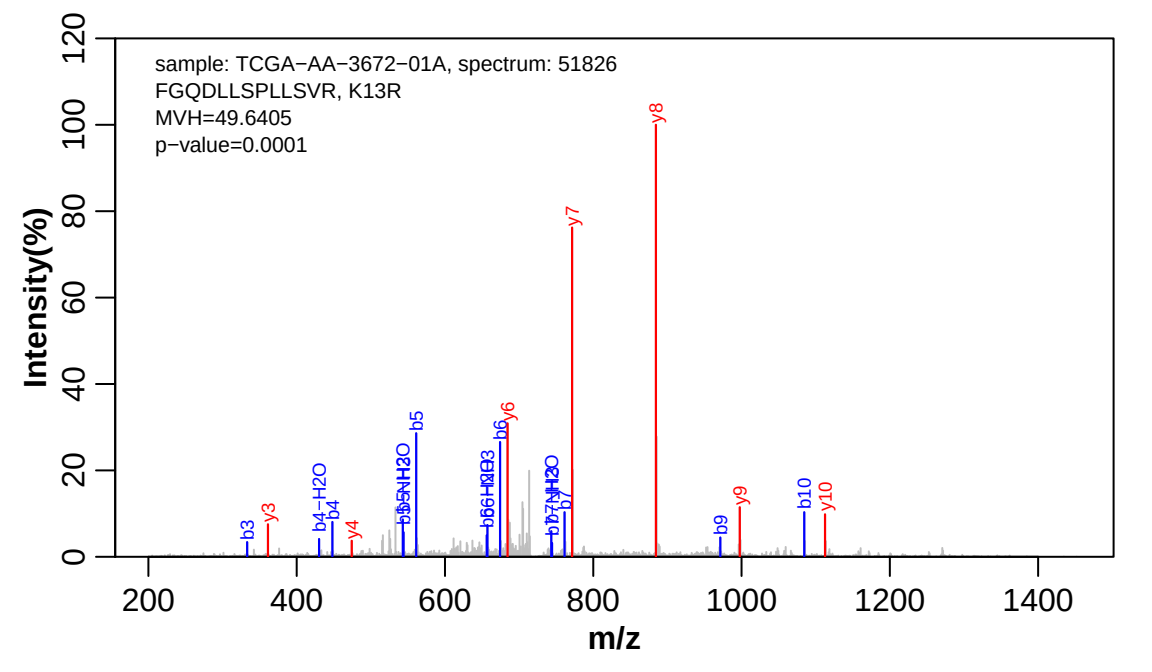

sample: TCGA−AA−3672−01A, spectrum: 25491
DVDGLTSLNAGR, K12R
MVH=43.9800
p−value=0.0001
Intensity(%)
m/z
y2
y3
b3
b4
y4
b5−H2O−NH3
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
y9
b9
b10−H2O
b10
y10

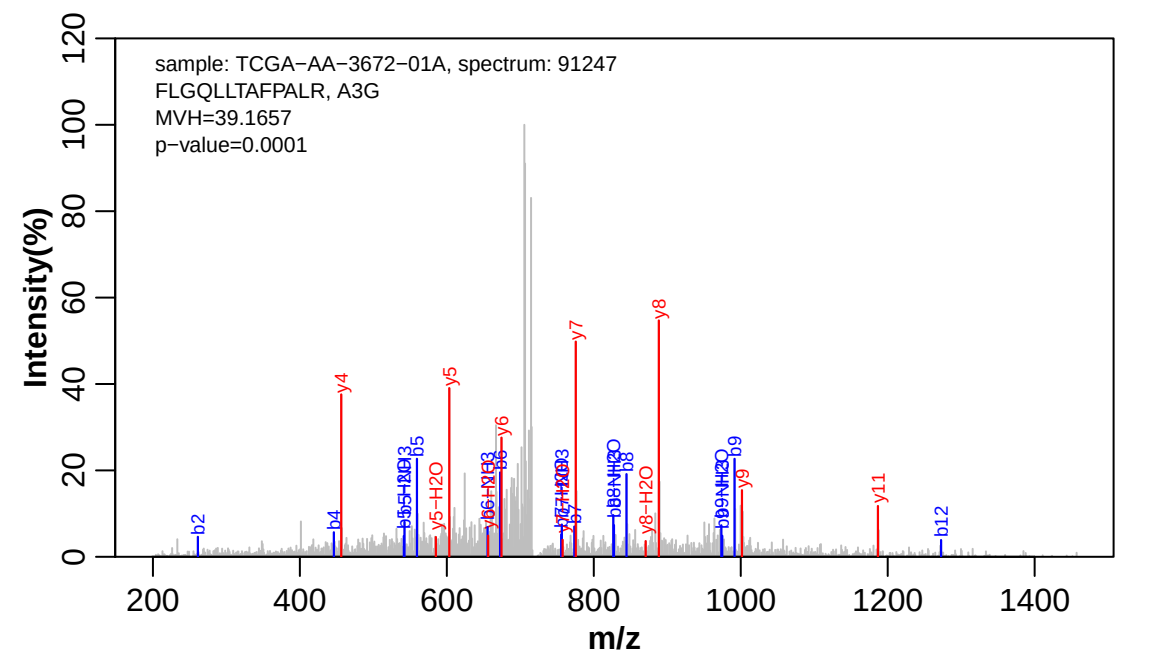

sample: TCGA−AA−3672−01A, spectrum: 5762
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=24.5103
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

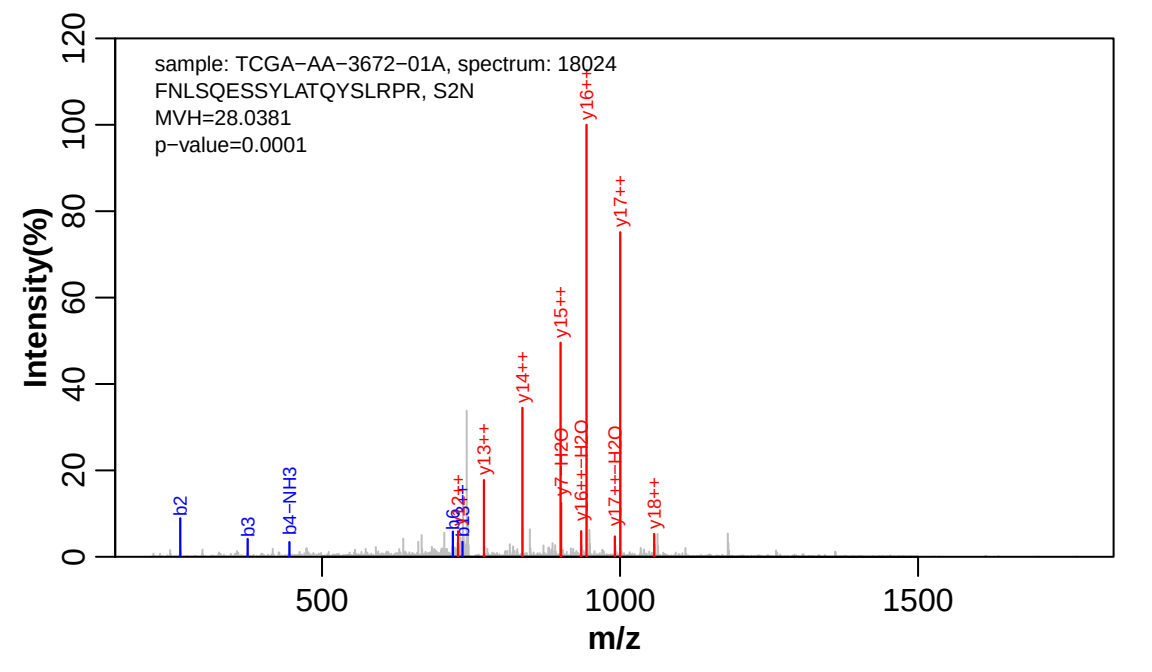

sample: TCGA−AA−3672−01A, spectrum: 33746
EASQGSSASSAPQSVK, H13Q
MVH=22.8919
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y5−NH3
b5−H2O
b7−H2O
b7−NH3
y7
y8
y8−NH3
y8−H2O
y9−H2O
b10−H2O
b11−H2O
y11
y12−NH3
y12
b15−NH3
b15

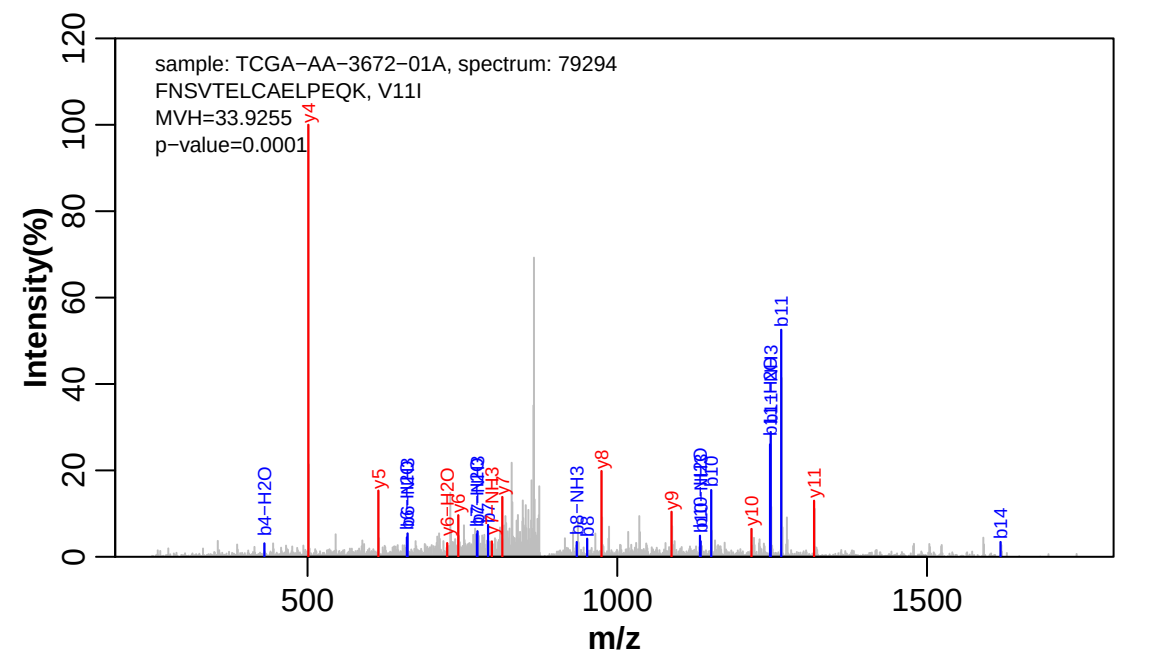

sample: TCGA−AA−3672−01A, spectrum: 123946
ELTDVVQK, A4D
MVH=33.4898
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
y2
b3−H2O
y3
b4−H2O
y4−NH3
y4
b4
b5−H2O
b5−NH3
y5
b6−H2O
b6−NH3
y6
b7−H2O

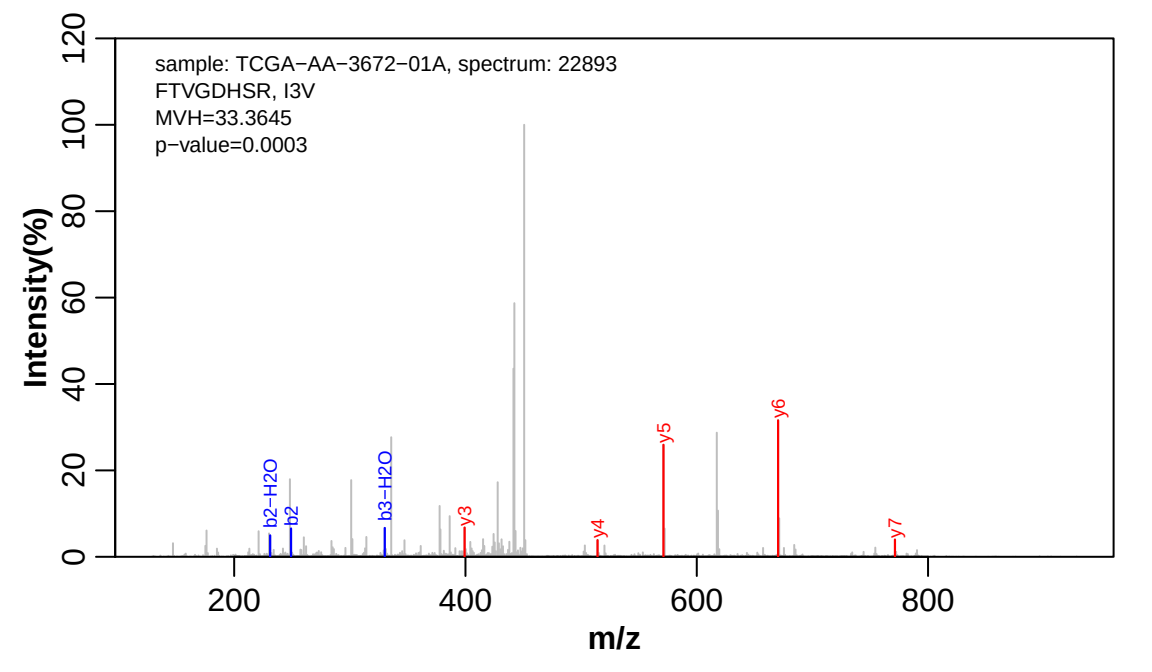

sample: TCGA−AA−3672−01A, spectrum: 60033
EQPGSPEWLQLDK, Q13K
MVH=26.2924
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y5
y6
y8
y11

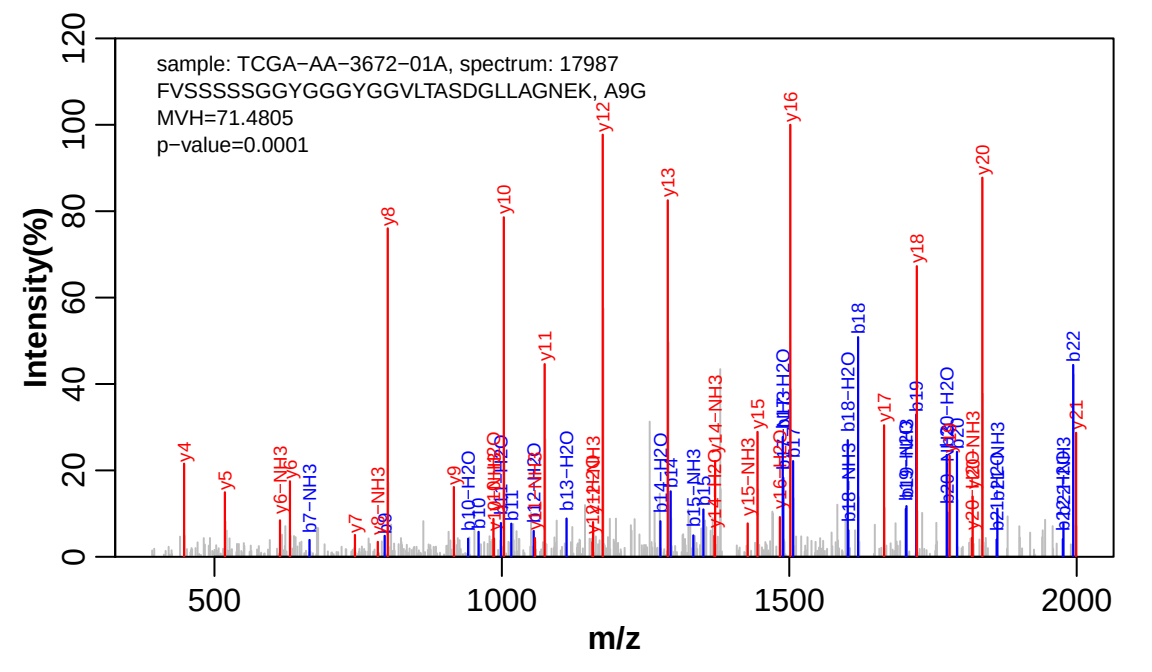

sample: TCGA−AA−3672−01A, spectrum: 51826
FGQDLLSPLLSVR, K13R
MVH=49.6405
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
b5−NH3
b5−H2O
y6
b6
b6−NH3
b6−H2O
y7
b7
b7−NH3
b7−H2O
y8
b9
y9
b10
y10

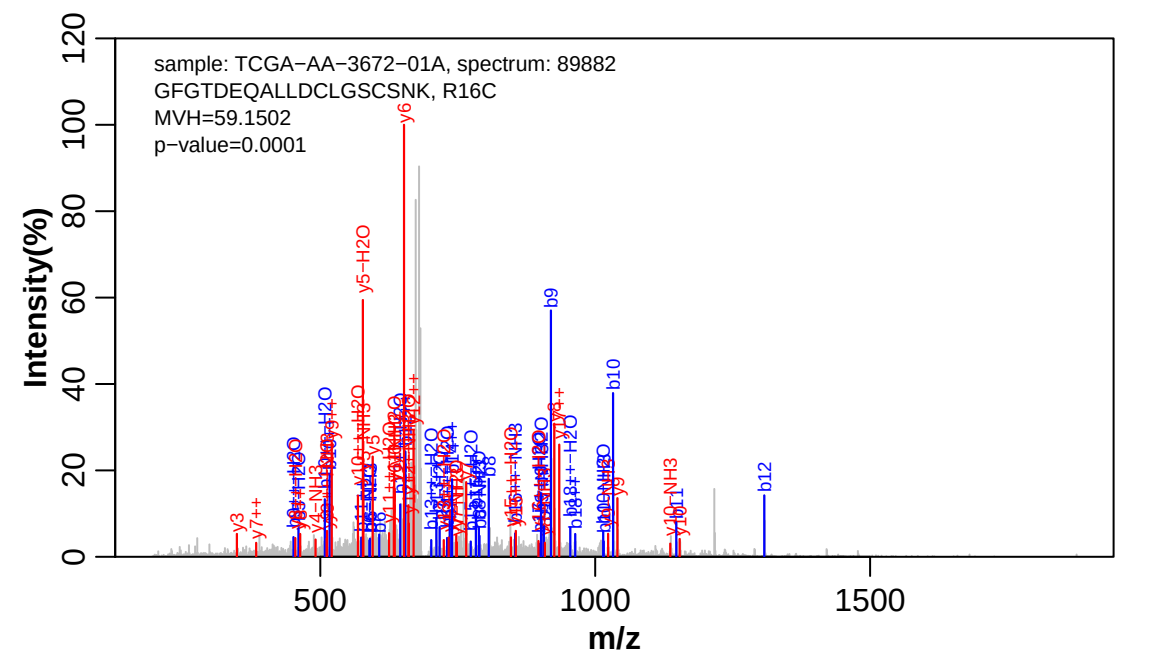

sample: TCGA−AA−3672−01A, spectrum: 91247
FLGQLLTAFPALR, A3G
MVH=39.1657
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
y4
y5
y5−H2O
b5
y6
y7
b8
y8
y8−H2O
b9
y9
y11
b12

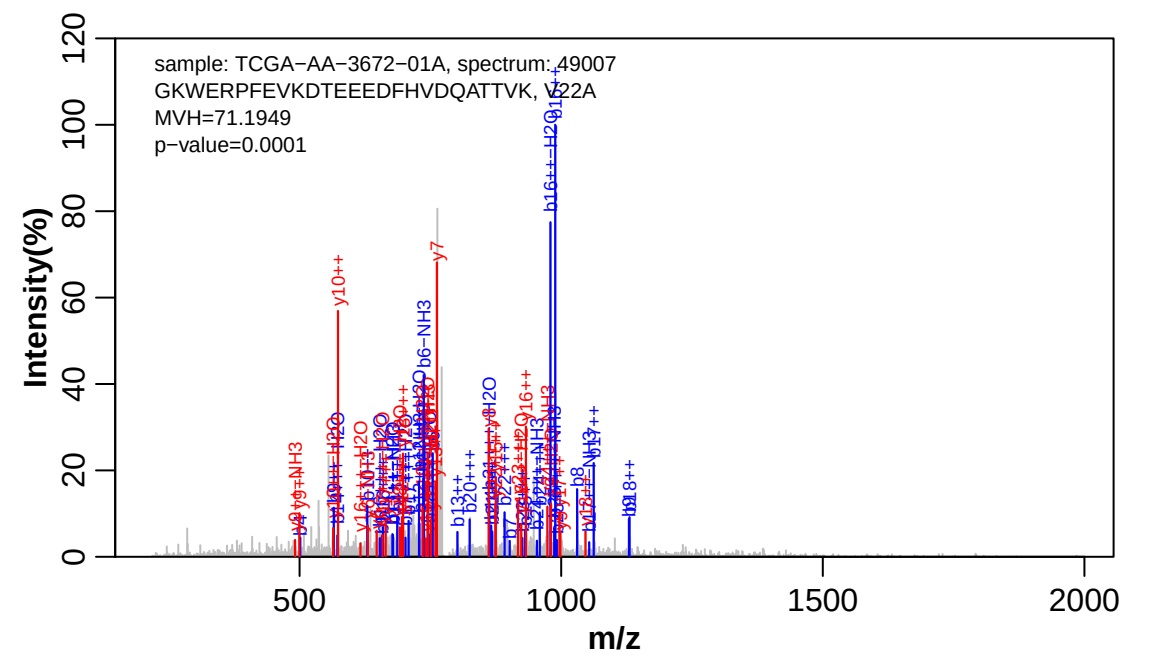

sample: TCGA−AA−3672−01A, spectrum: 18024
FNLSQESSYLATQYSLRPR, S2N
MVH=28.0381
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4−NH3
b6
b6++
b13++
y13++
y14++
y7++−H2O
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

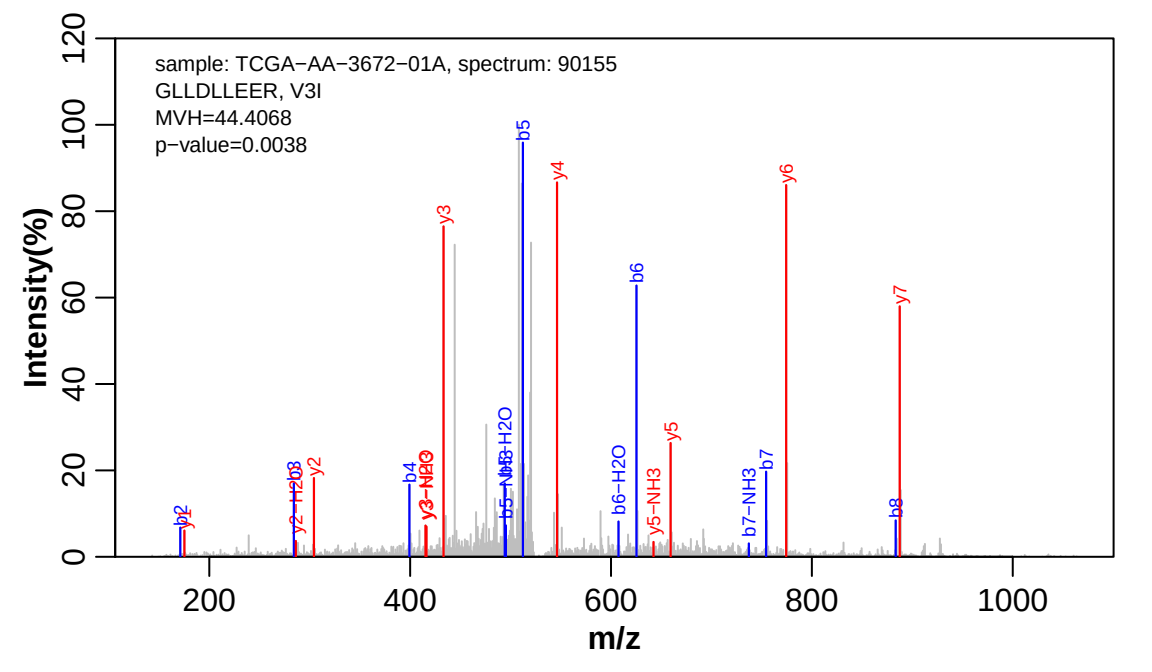

sample: TCGA−AA−3672−01A, spectrum: 79294
FNSVTELCAELPEQK, V11I
MVH=33.9255
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b4−H2O
y5
y6−H2O
y6
y7−NH3
y7
b8−NH3
b8
y8
y9
b10
y10
b11
y11
b14

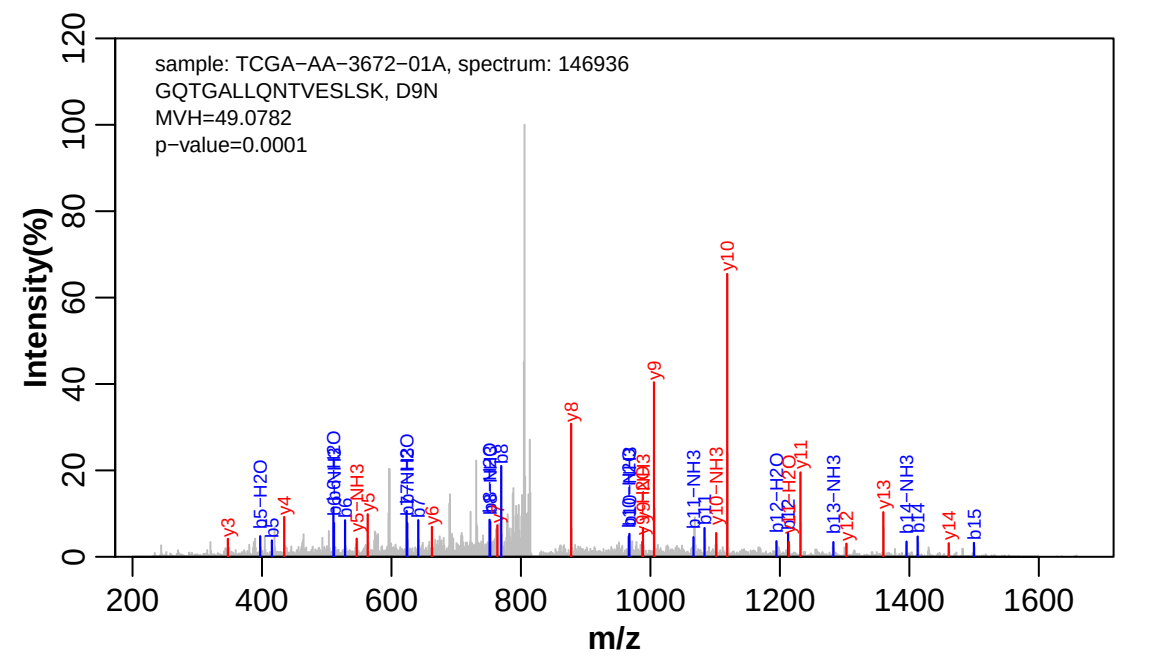

sample: TCGA−AA−3672−01A, spectrum: 22893
FTVGDHSR, I3V
MVH=33.3645
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
y4
y5
y6
y7

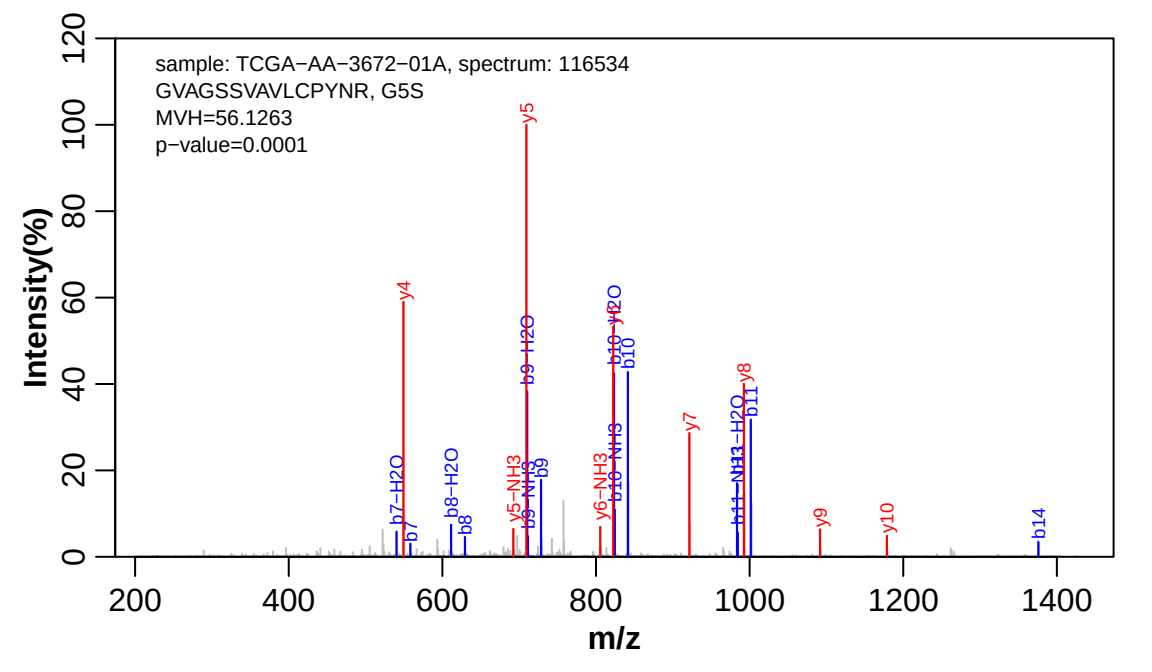

sample: TCGA−AA−3672−01A, spectrum: 17987
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=71.4805
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6−NH3
y6
b7−NH3
y7
y8−NH3
y8
y9
b10−H2O
b10
b11
y10
y11
b13−H2O
y12
y13
b14−H2O
b14
b15−NH3
b15
y14−NH3
y15−NH3
y15
y16
b17
b18−H2O
b18
b18−NH3
y17
y18
b19
b20−H2O
b20
y20
b22
y21

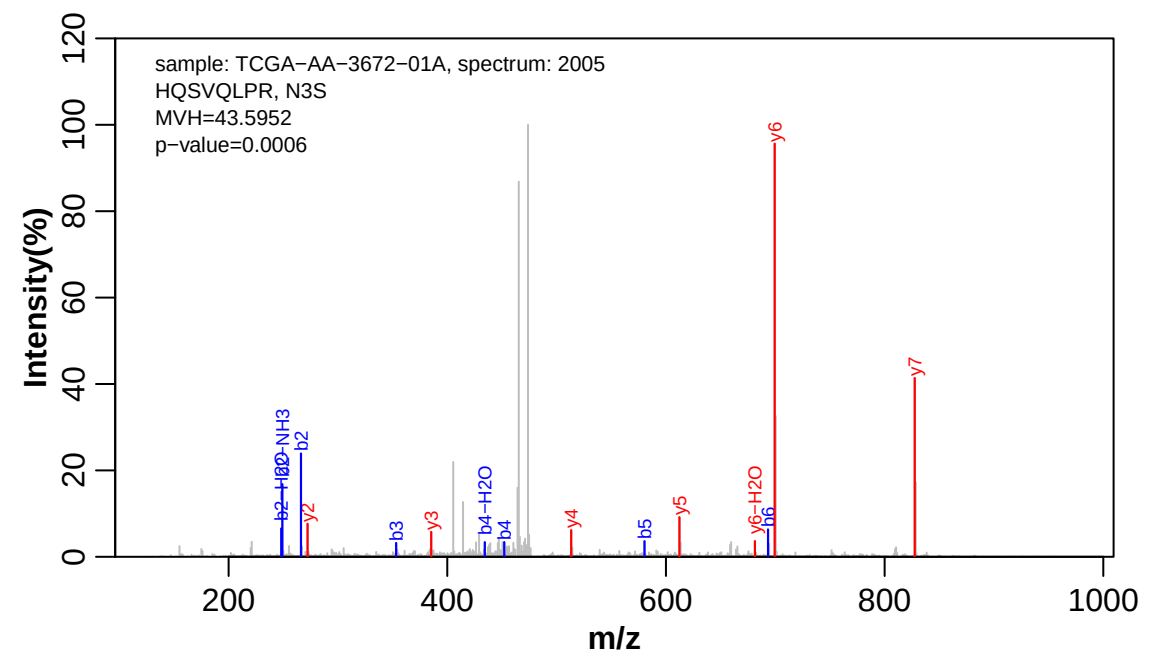

sample: TCGA−AA−3672−01A, spectrum: 89882
GFGTDEQALLDCLGSCSNK, R16C
MVH=59.1502
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y3
y7++
y9
y10−NH3
y11
b8
b8++−H2O

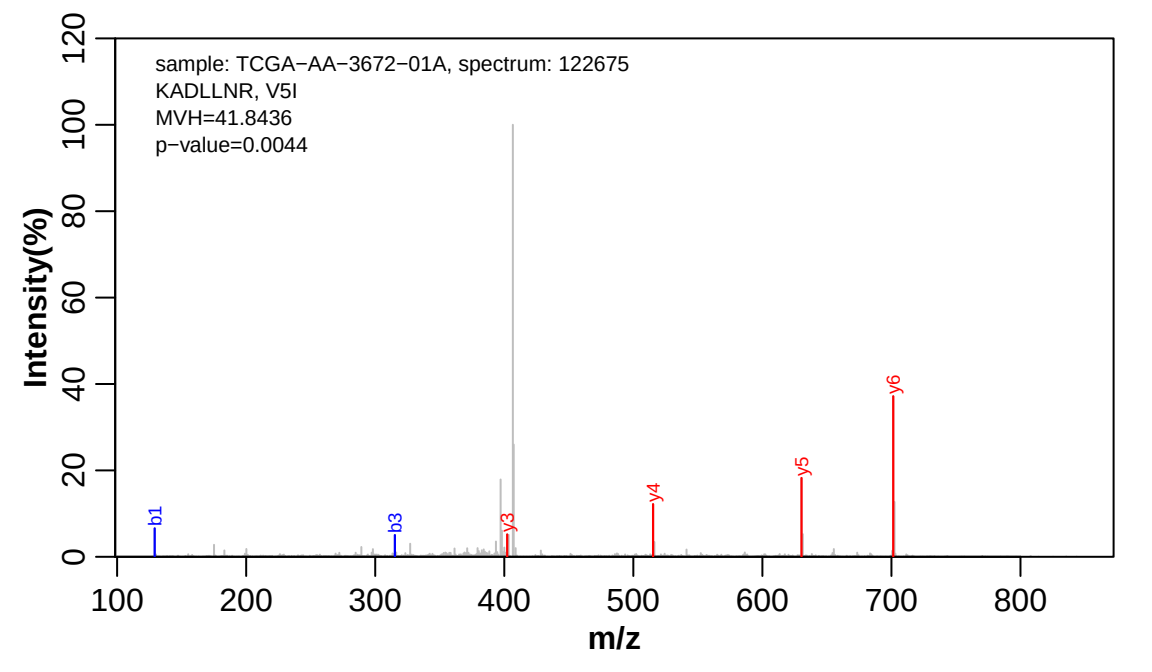

sample: TCGA−AA−3672−01A, spectrum: 49007
GKWERPFEVKDTEEEDFHVDQATTVK, 1722A
MVH=71.1949
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
y7
b16++−H2O
b6−NH3
b13++
b20+++
b18++

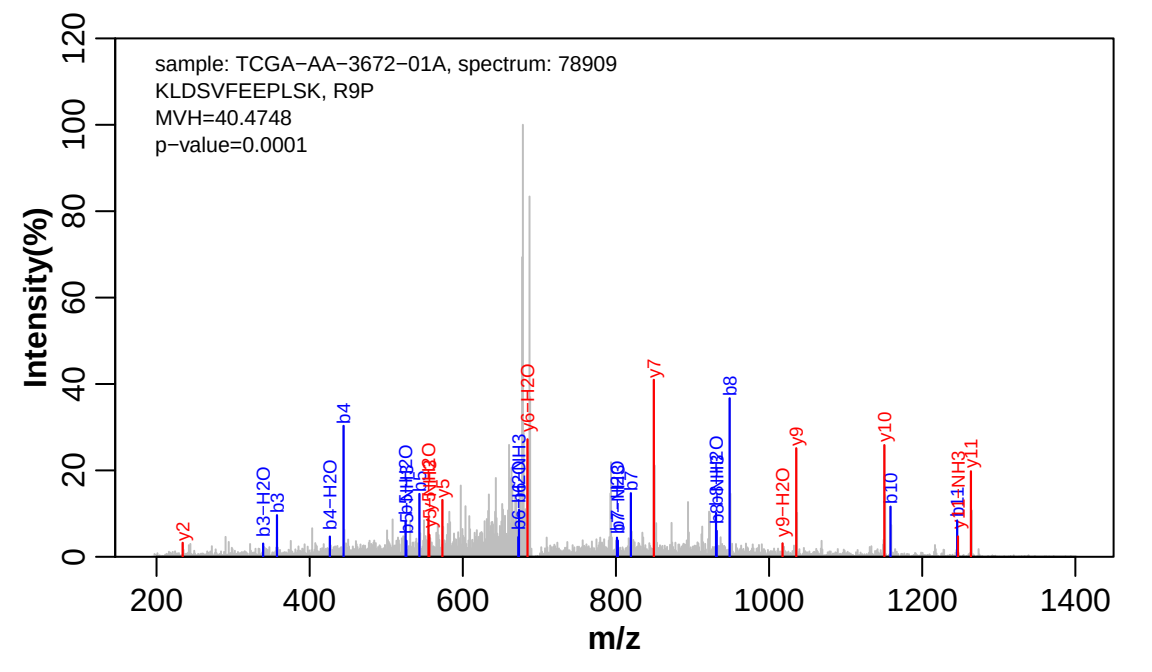

sample: TCGA−AA−3672−01A, spectrum: 90155
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2−H2O
y2
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
b6
b6−H2O
y5−NH3
y5
b7−NH3
b7
y6
b8
y7

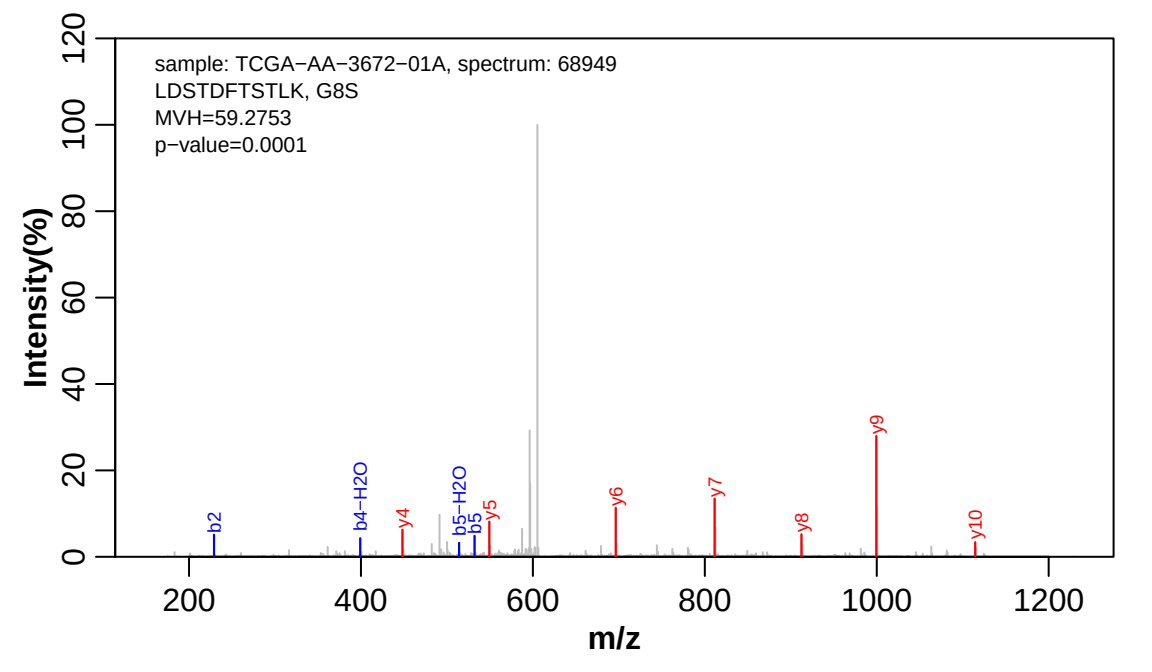

sample: TCGA−AA−3672−01A, spectrum: 146936
GQTGALLQNTVESLSK, D9N
MVH=49.0782
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b5−H2O
b5
y4
b6−NH3
b6
y5−NH3
y5
b7−NH3
b7
y6
b8−H2O
b8
y8
b10−NH3
b10
y9−NH3
y9
y10
b11−NH3
b11
y10−NH3
b12−H2O
y11
b13−NH3
y12
y13
b14−NH3
b14
y14
b15

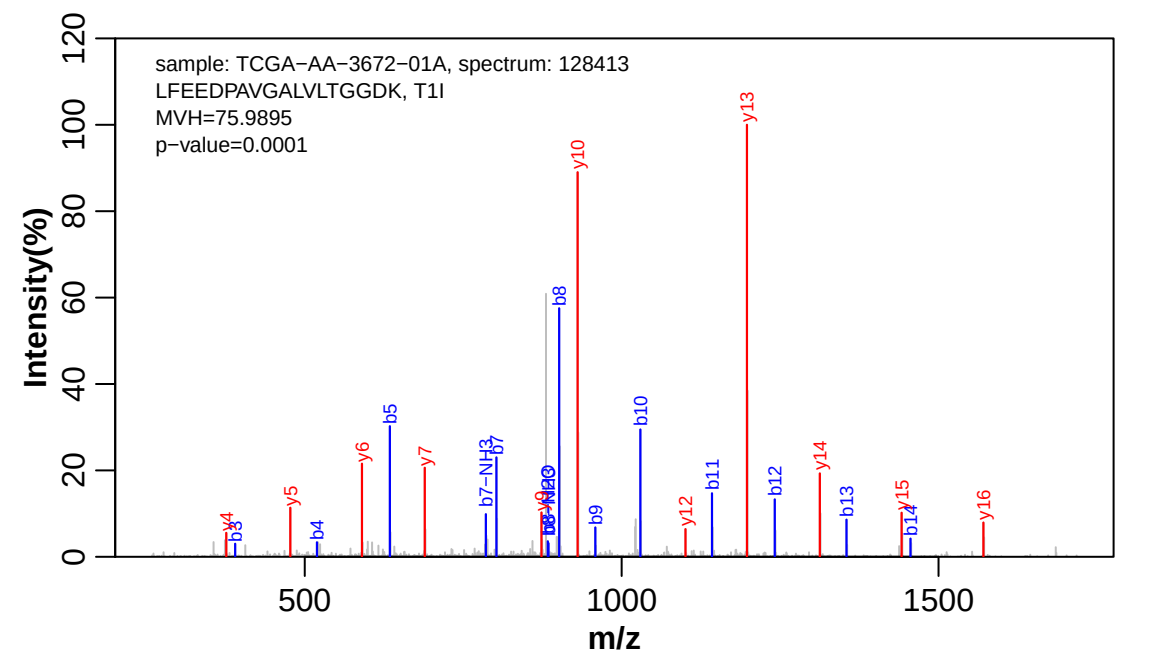

sample: TCGA−AA−3672−01A, spectrum: 116534
GVAGSSVAVLCPYNR, G5S
MVH=56.1263
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11−H2O
b11
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3
y9
y10
b14

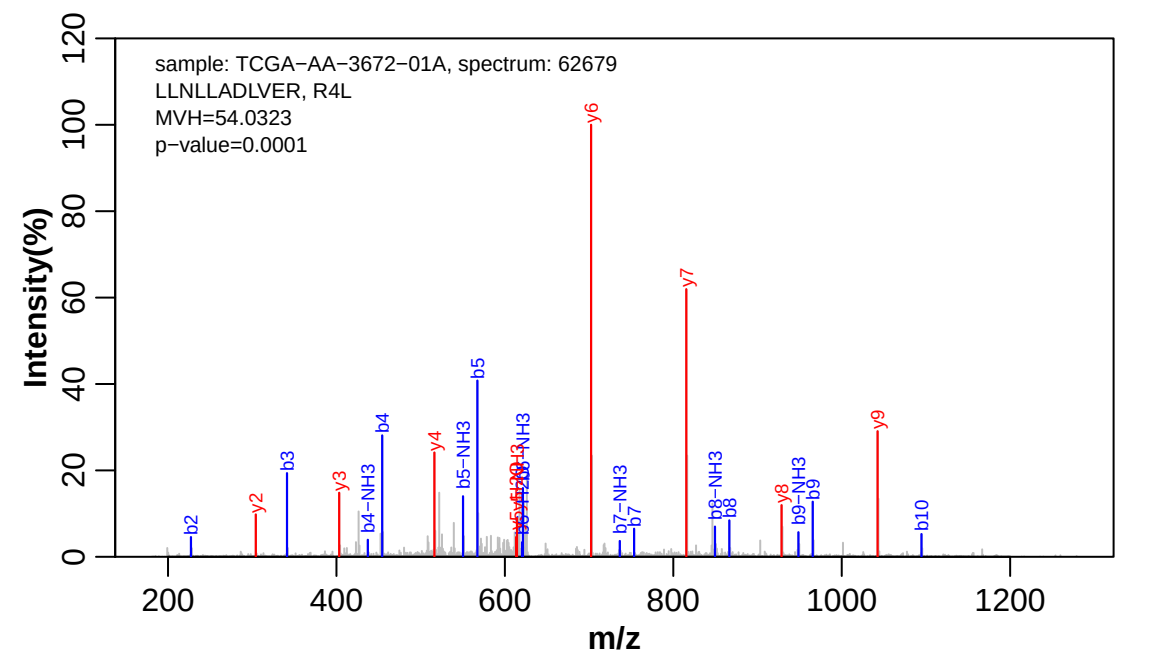

sample: TCGA−AA−3672−01A, spectrum: 2005
HQSVQLPR, N3S
MVH=43.5952
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−NH3
b2
b2−H2O
y2
b3
y3
b4−H2O
b4
y4
b5
y5
y6−H2O
b6
y6
y7

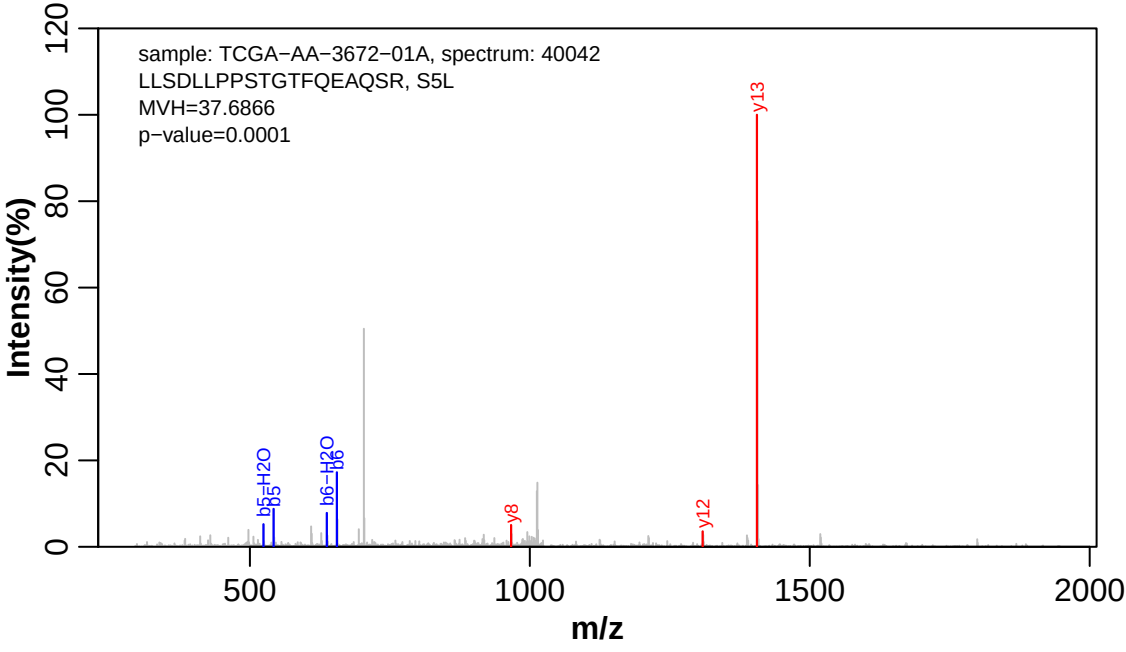

sample: TCGA−AA−3672−01A, spectrum: 122675
KADLLNR, V5I
MVH=41.8436
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b1
b3
y3
y4
y5
y6

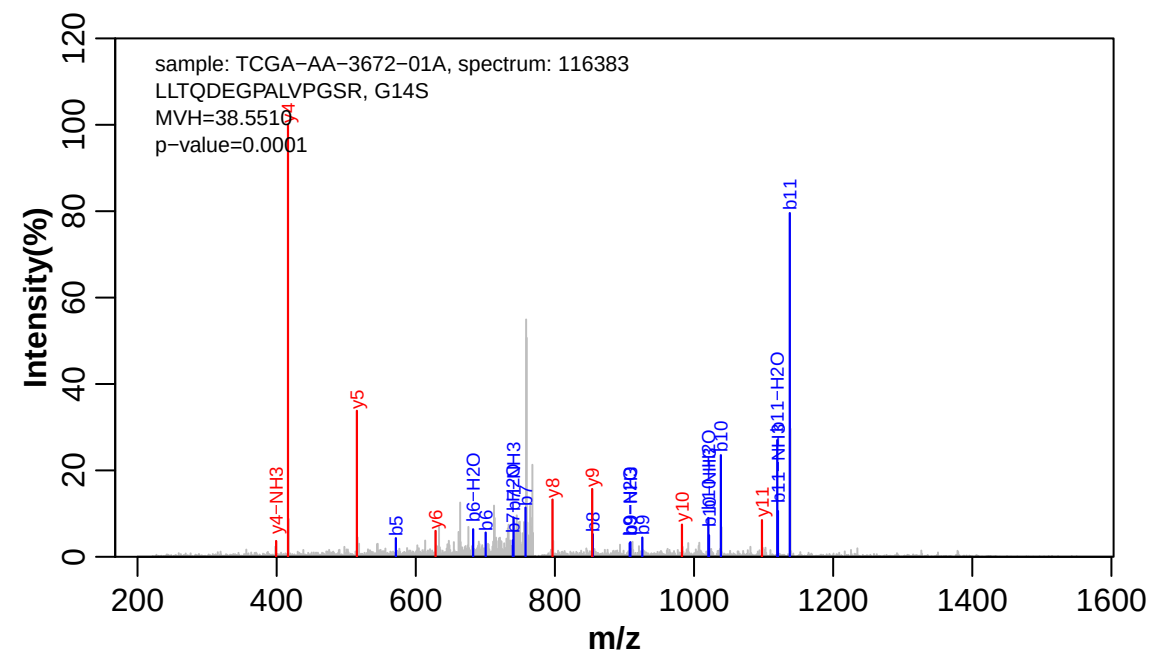

sample: TCGA−AA−3672−01A, spectrum: 78909
KLDSVFEEPLSK, R9P
MVH=40.4748
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
b4
b4−H2O
y5
y6−H2O
y7
b8
y9
y9−H2O
y10
b10
y11

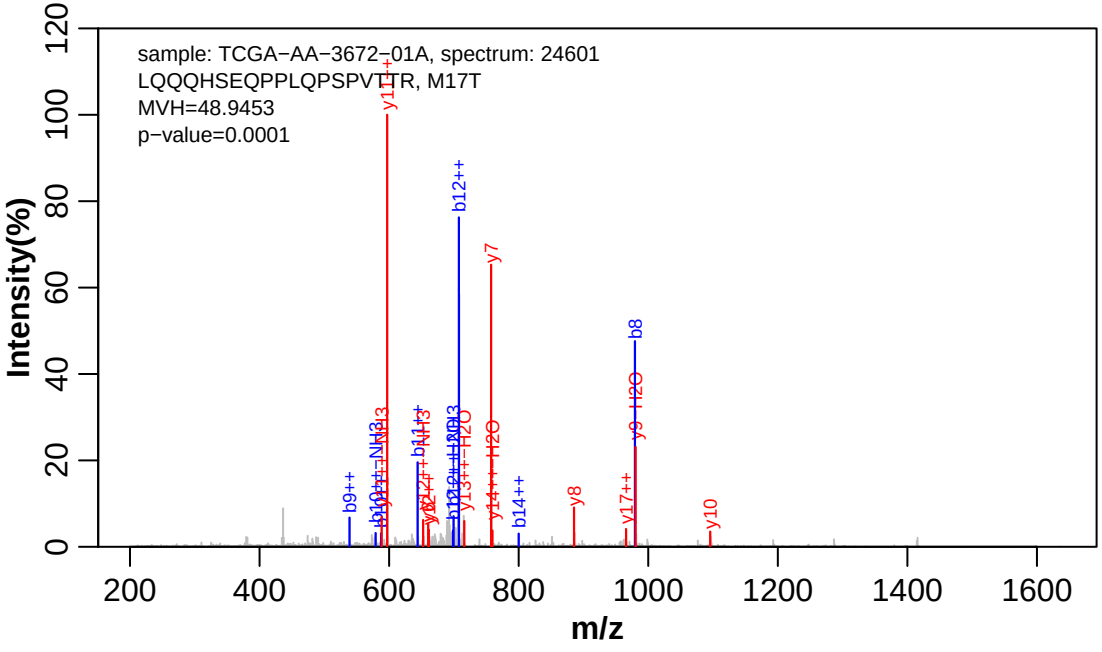

sample: TCGA−AA−3672−01A, spectrum: 68949
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
y7
y8
y9
y10

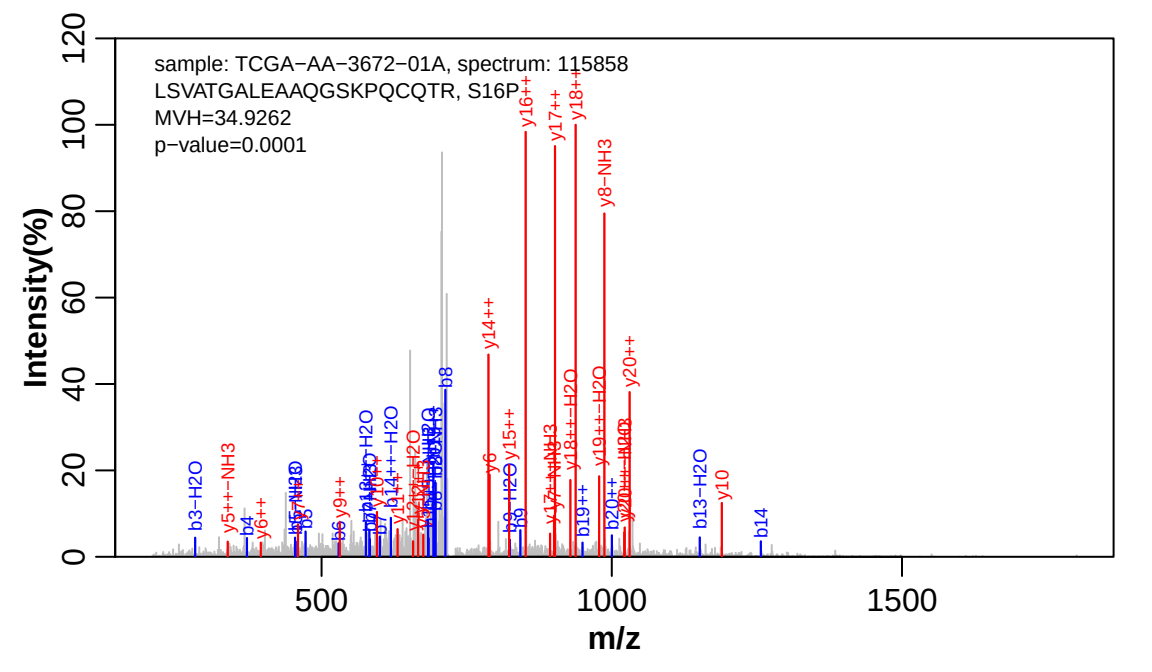

sample: TCGA−AA−3672−01A, spectrum: 128413
LFEEDPAVGALVLTGGDK, T1I
MVH=75.9895
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b10
y6
y5
y7
b5
b7−NH3
b7
b4
b3
y4
b9
y12
b11
b12
y14
b13
y15
b14
y16

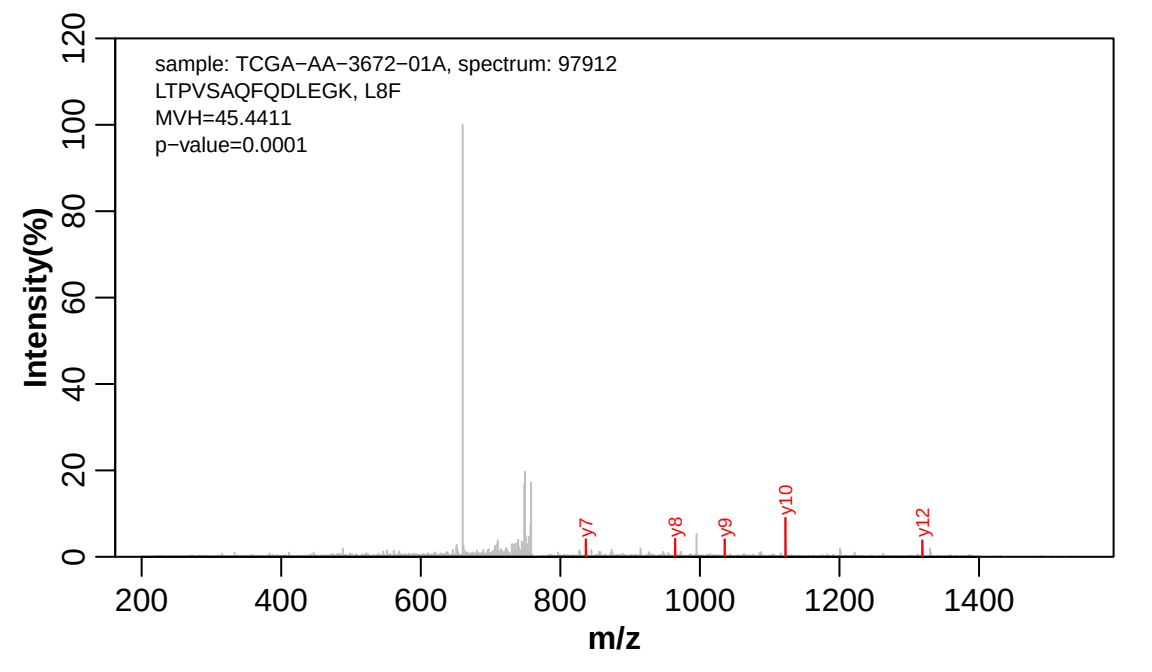

sample: TCGA−AA−3672−01A, spectrum: 62679
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b7−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

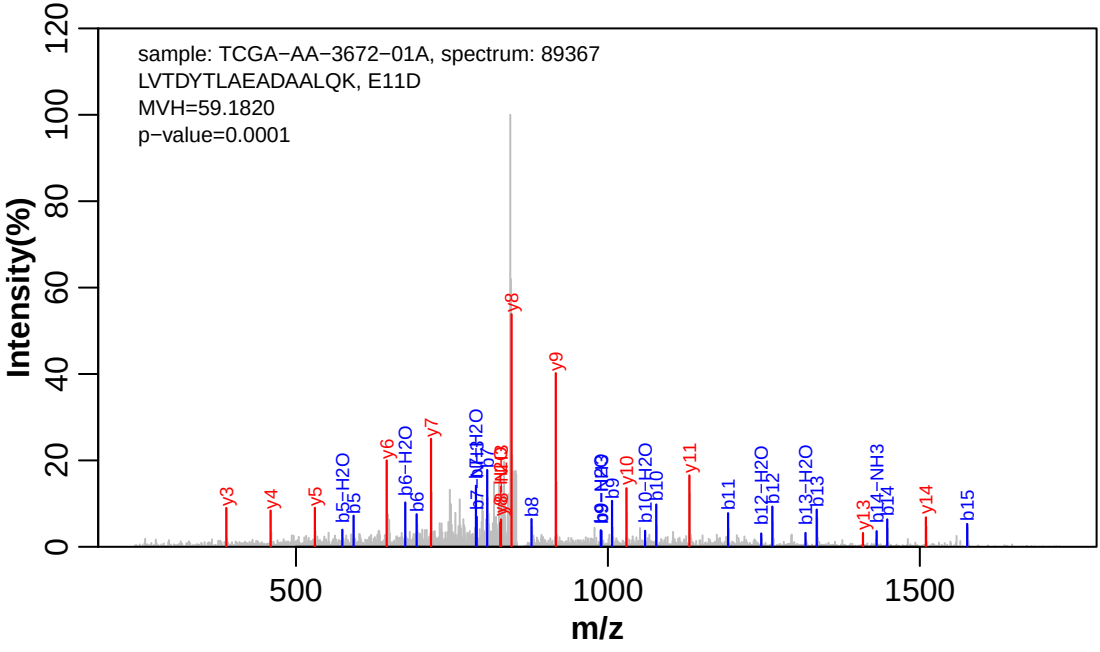

sample: TCGA−AA−3672−01A, spectrum: 40042
LLSDLLPPSTGTFQEAQSR, S5L
MVH=37.6866
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y13
y12
y8
b5−H2O
b5
b6−H2O
b6

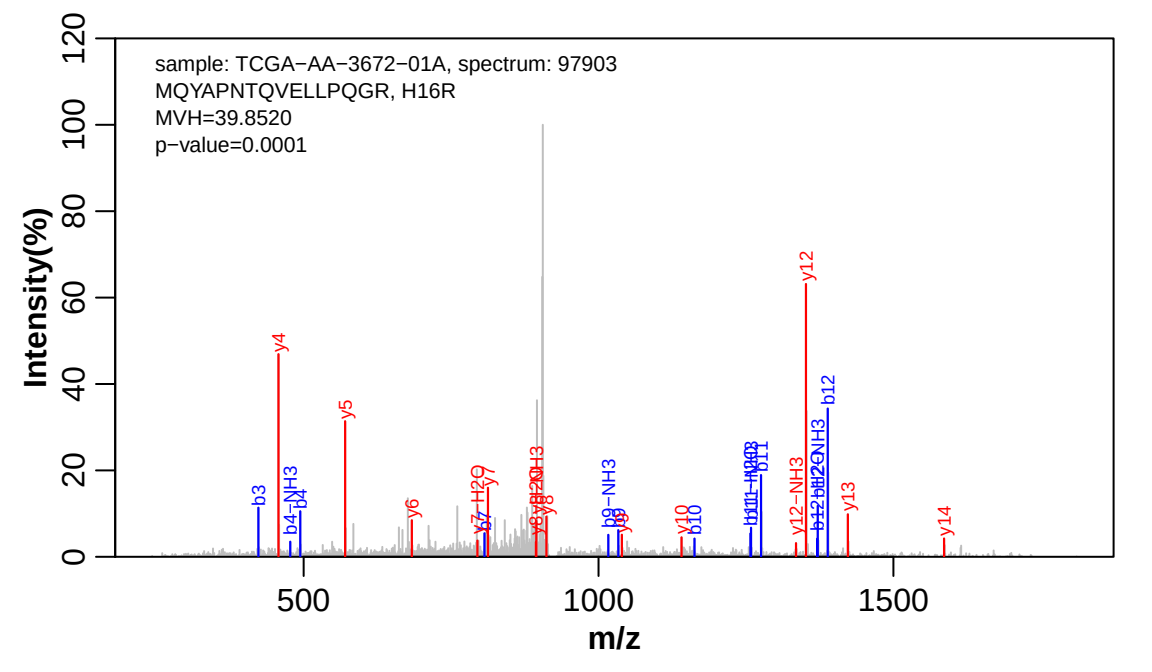

sample: TCGA−AA−3672−01A, spectrum: 116383
LLTQDEGPALVPGSR, G14S
MVH=38.5516
p−value=0.0001
Intensity(%)
m/z
y4
y4−NH3
y5
b5
y6
b6−H2O
b6
y8
y9
b8
y10
b10
y11
b11
b11−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

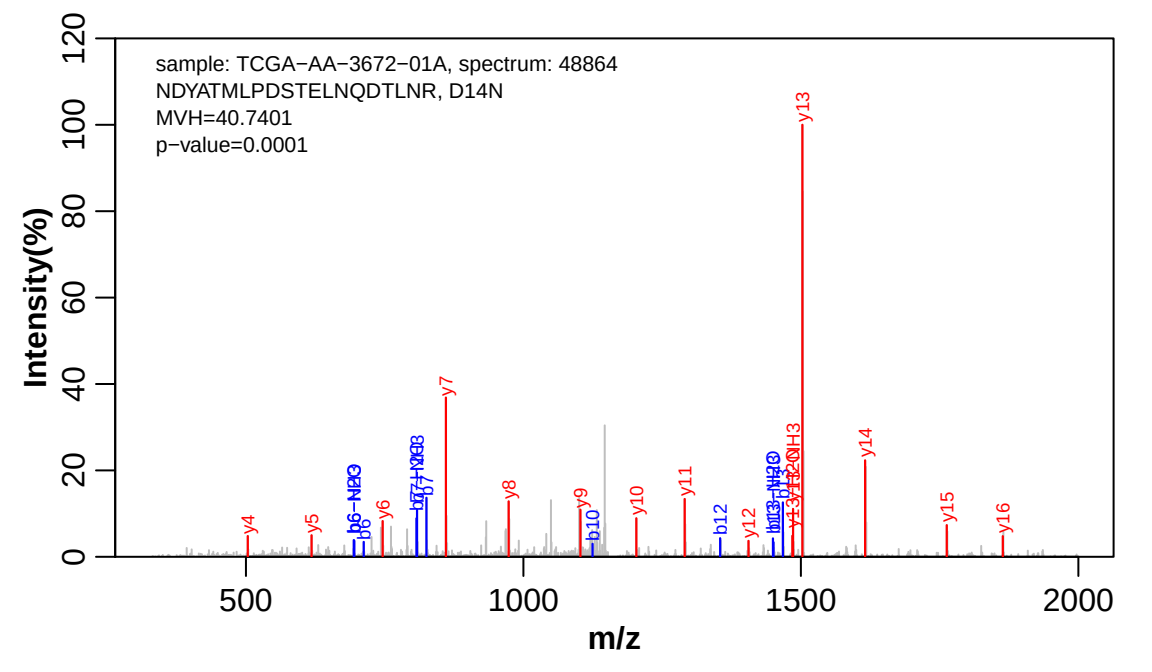

sample: TCGA−AA−3672−01A, spectrum: 24601
LQQQHSEQPPLQPSPVTTR, M17T
MVH=48.9453
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y11++
b12++
y7
b8
y9−H2O
b9++
y8
y17++
y10
b14++

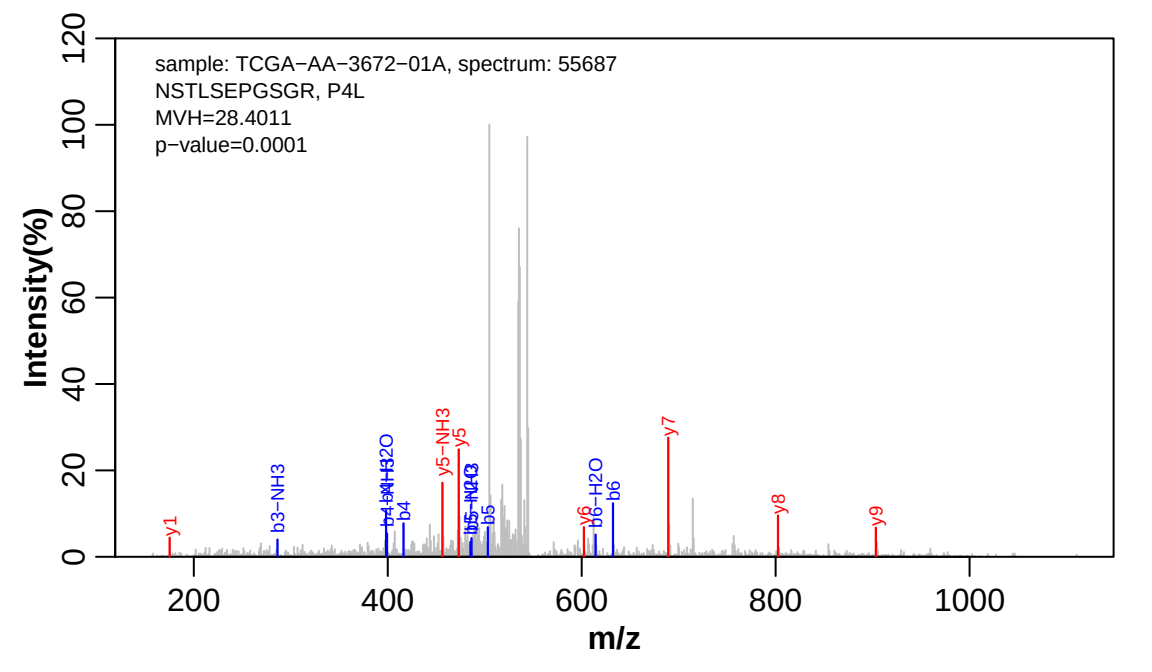

sample: TCGA−AA−3672−01A, spectrum: 115858
LSVATGALEAAQGSKPQCQTR, S16P
MVH=34.9262
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y5++−NH3
b4
y6++
b6
y9++
b8
y14++
y6
b9
y15++
y16++
y17++
y18++
y8−NH3
y18++−H2O
y19++−H2O
y20++
b19++
b20++
b13−H2O
y10
b14

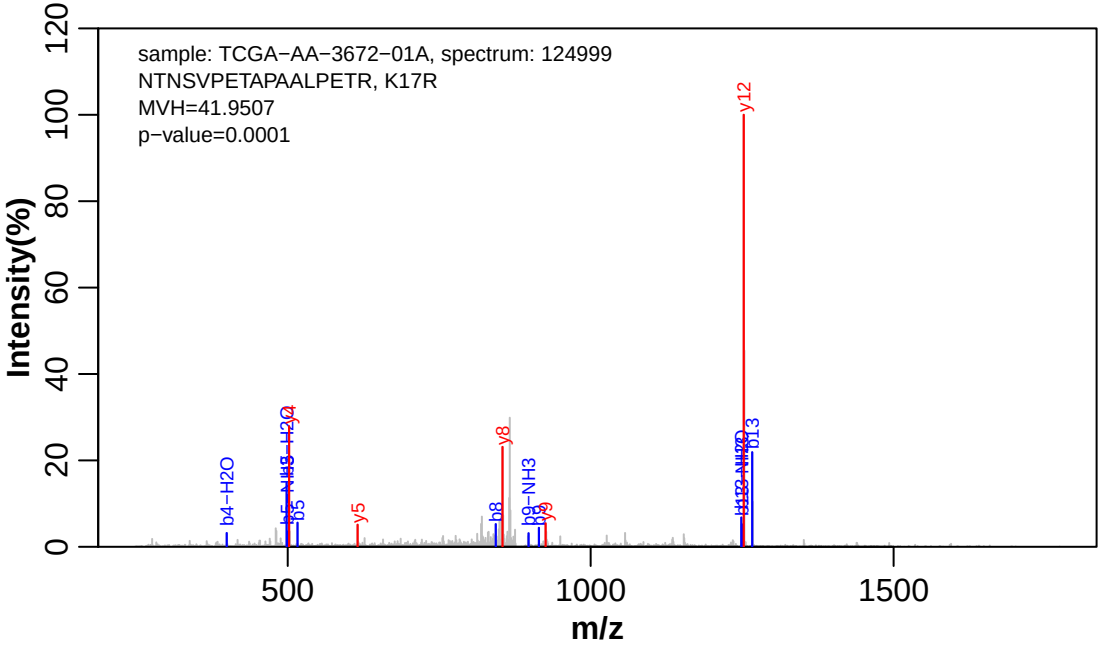

sample: TCGA−AA−3672−01A, spectrum: 97912
LTPVSAQFQDLEGK, L8F
MVH=45.4411
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
y8
y9
y10
y12

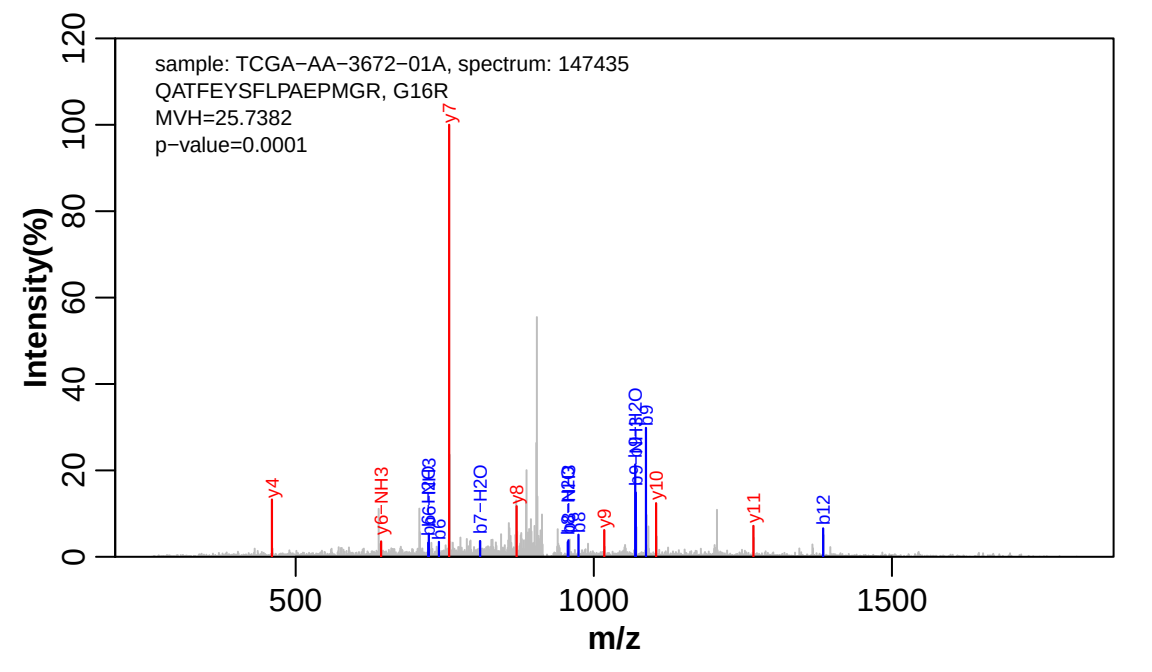

sample: TCGA−AA−3672−01A, spectrum: 89367
LVTDYTLAEADAALQK, E11D
MVH=59.1820
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9
b8
y10
b10−H2O
b10
y11
b11
b12−H2O
b12
b13−H2O
b13
y13
b14−NH3
b14
y14
b15

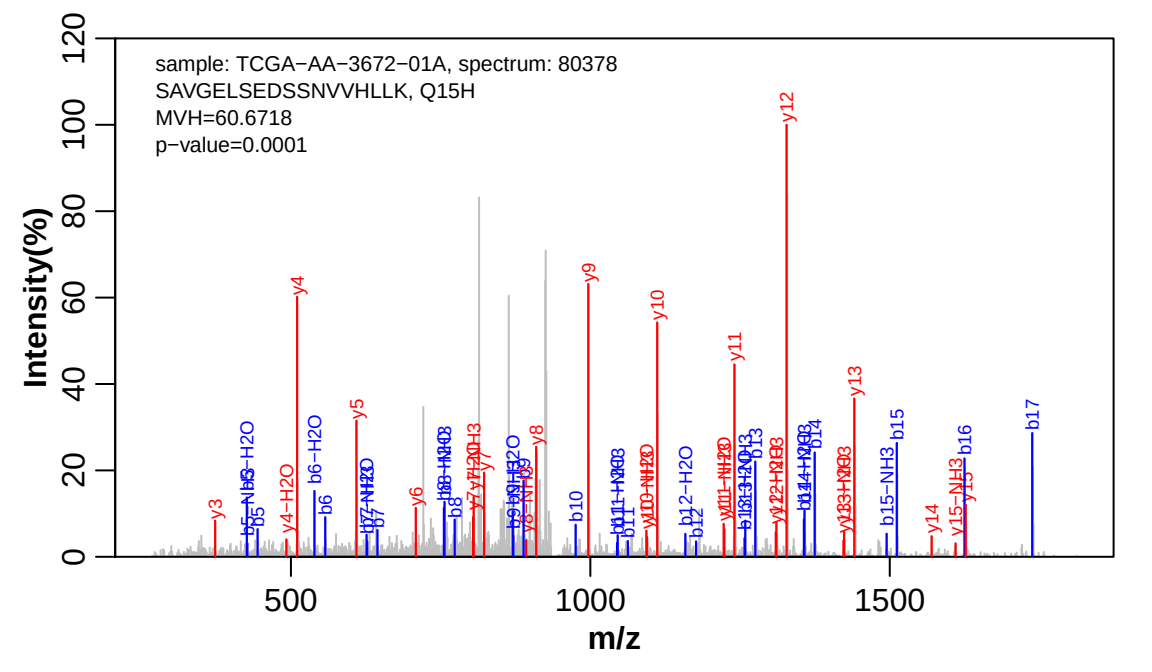

sample: TCGA−AA−3672−01A, spectrum: 97903
MQYAPNTQVELLPQGR, H16R
MVH=39.8520
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4−NH3
b4
y5
y6
y7−H2O
y7
y8
b9−NH3
b9
y10
b10
b11−NH3
b11
y12−NH3
y12
b12−NH3
b12
y13
y14

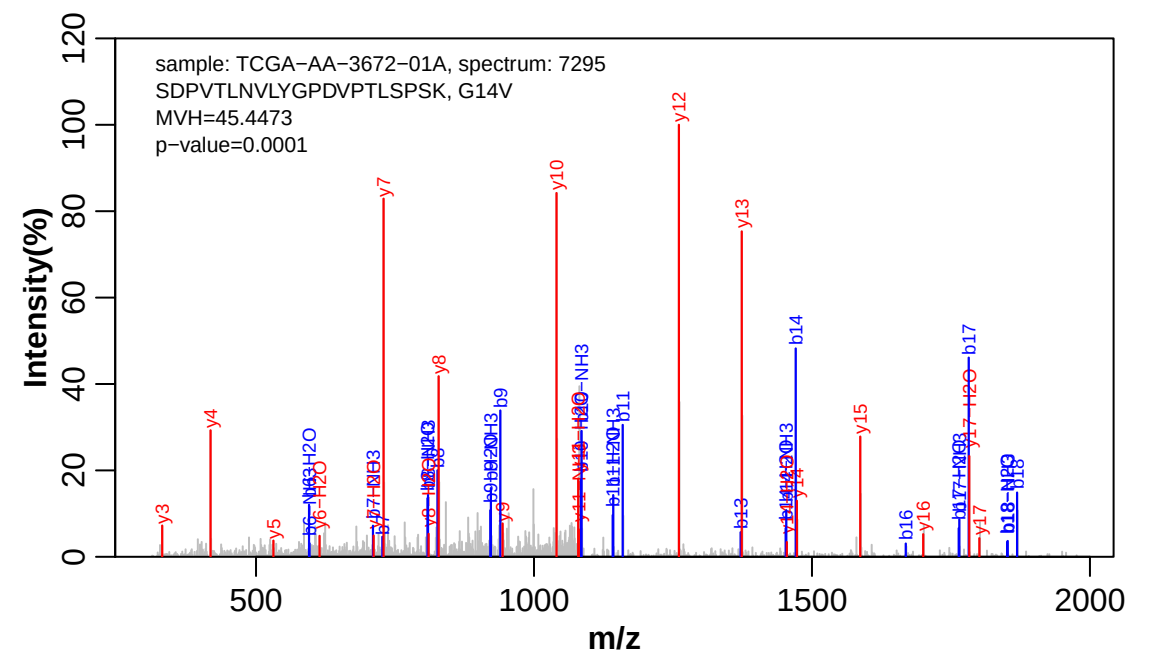

sample: TCGA−AA−3672−01A, spectrum: 48864
NDYATMLPDSTELNQDTLNR, D14N
MVH=40.7401
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y14
y15
y16
b10
b12

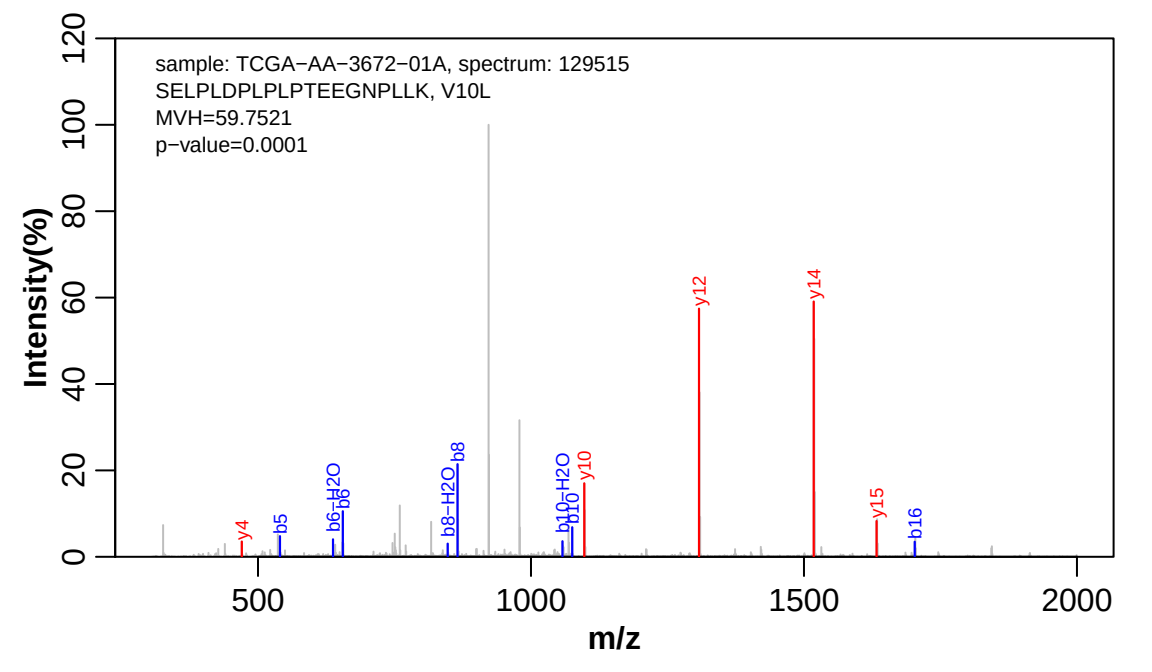

sample: TCGA−AA−3672−01A, spectrum: 55687
NSTLSEPGSGR, P4L
MVH=28.4011
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b3−NH3
b4−NH3
b4−H2O
b4
y5−NH3
y5
b5−NH3
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9

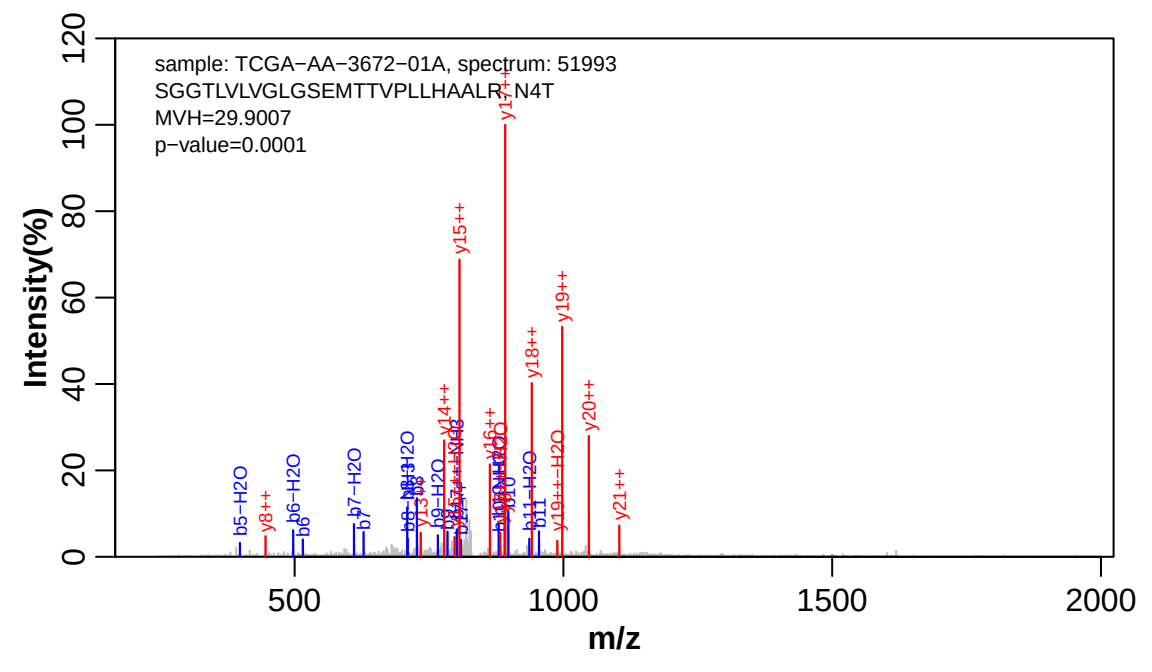

sample: TCGA−AA−3672−01A, spectrum: 124999
NTNSVPETAPAALPETR, K17R
MVH=41.9507
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b13
y8
b8
y5
b4−H2O
b9−NH3

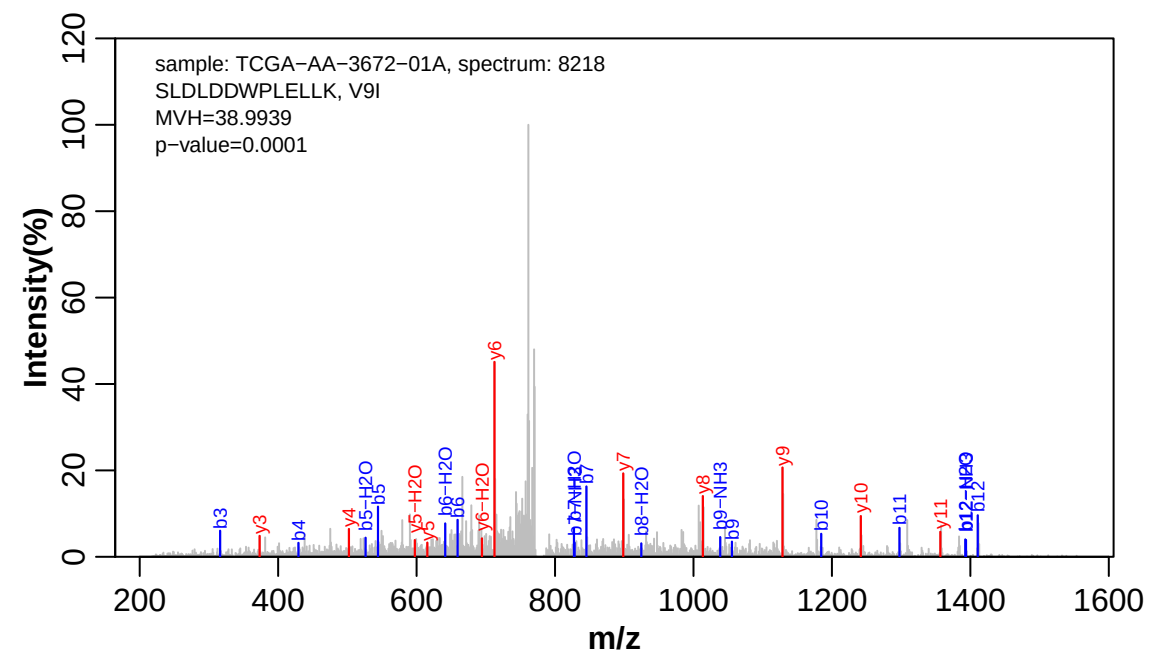

sample: TCGA−AA−3672−01A, spectrum: 147435
QATFEYSFLPAEPMGR, G16R
MVH=25.7382
p−value=0.0001
Intensity(%)
m/z
y7
y4
y6−NH3
b7−H2O
y8
y9
y10
y11
b12

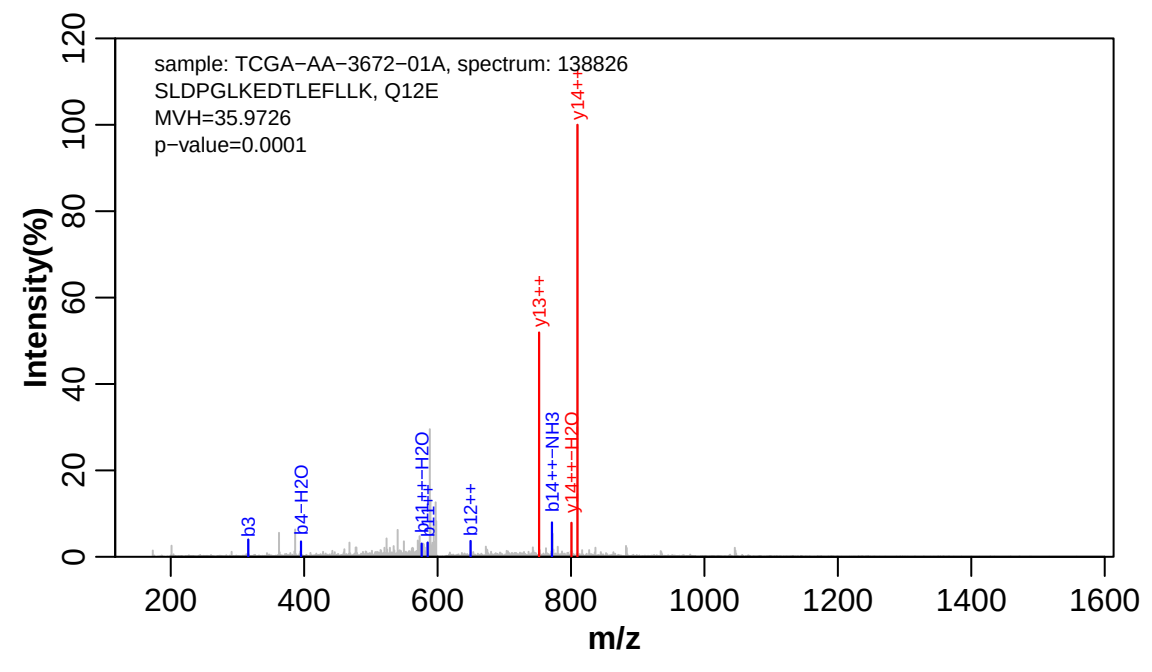

sample: TCGA−AA−3672−01A, spectrum: 80378
SAVGELSEDSSNVVHLLK, Q15H
MVH=60.6718
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y4
y10
y11
y13
b17
b15
y5
b6−H2O
y4−H2O
y3
b10
b12−H2O
y8
y6
b16
y14
b15−NH3
y15−NH3

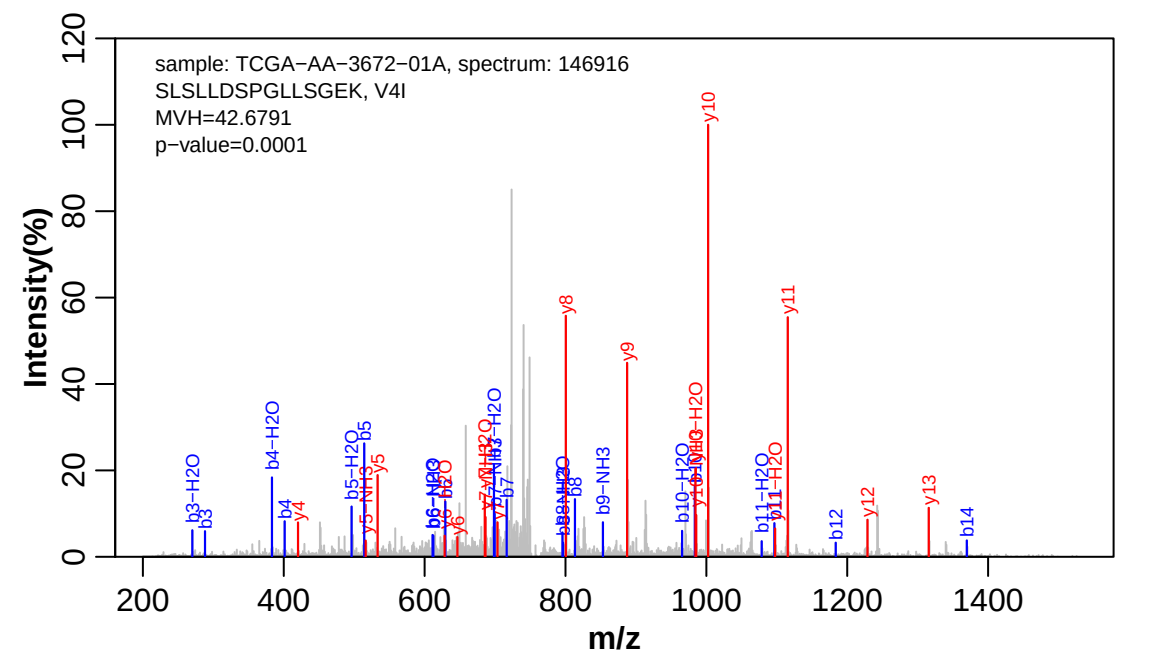

sample: TCGA−AA−3672−01A, spectrum: 7295
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=45.4473
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y8
y10
y12
y13
y14
y15
y16
y17
b9
b11
b12
b14
b16
b17

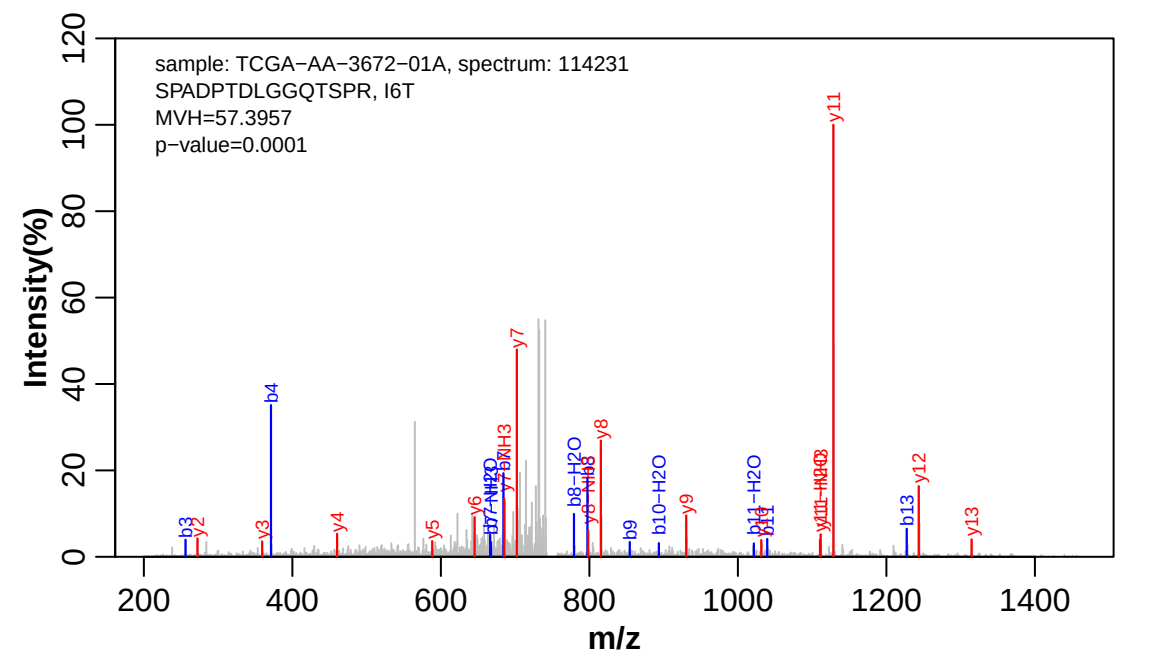

sample: TCGA−AA−3672−01A, spectrum: 129515
SELPLDPLPLPTEEGNPLLK, V10L
MVH=59.7521
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−H2O
b6
b8
b8−H2O
y12
b10−H2O
b10
y10
y14
y15
b16

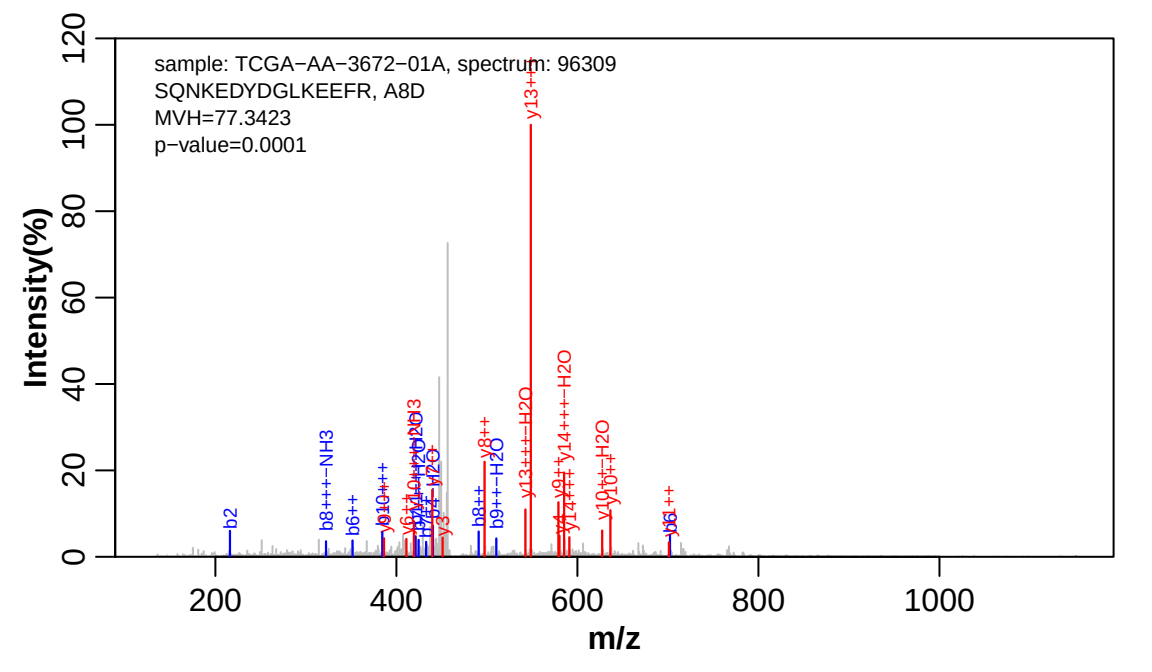

sample: TCGA−AA−3672−01A, spectrum: 51993
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=29.9007
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y19++
y18++
y20++
y14++
y16++
y21++
b5−H2O
y8++
b6−H2O
b6
b7−H2O
b7
b11−H2O
y19++−H2O

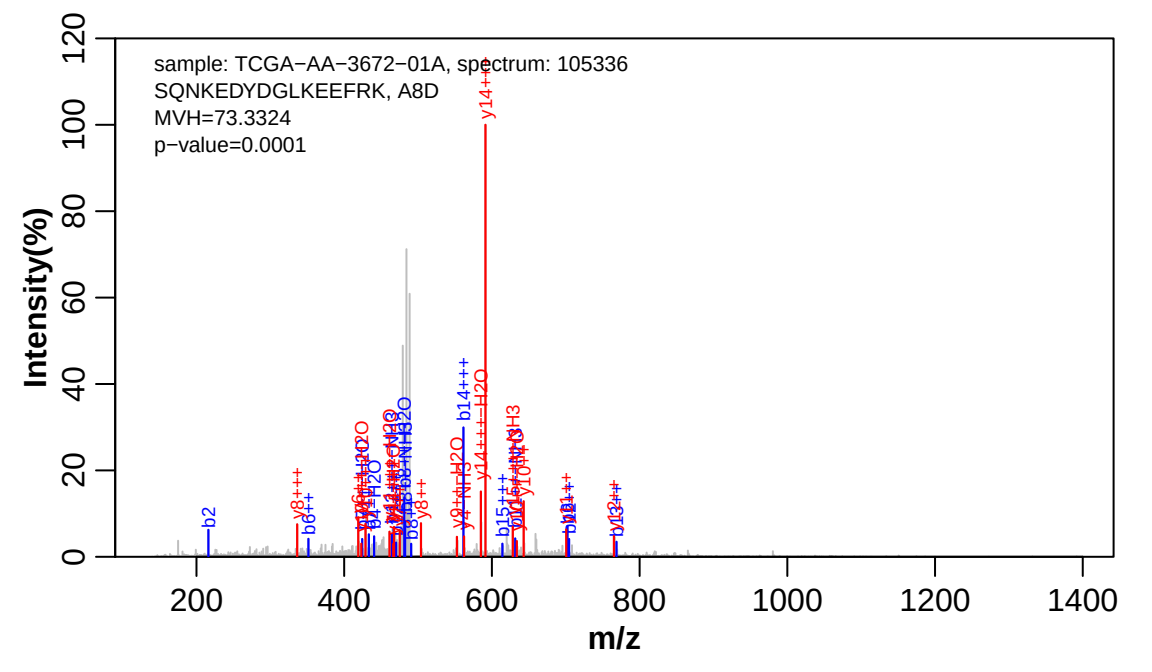

sample: TCGA−AA−3672−01A, spectrum: 8218
SLDLDDWPLELLK, V9I
MVH=38.9939
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
y6−H2O
y6
b7−NH3
b7
y7
b8−H2O
y8
b9−NH3
b9
y9
b10
y10
b11
y11
b12

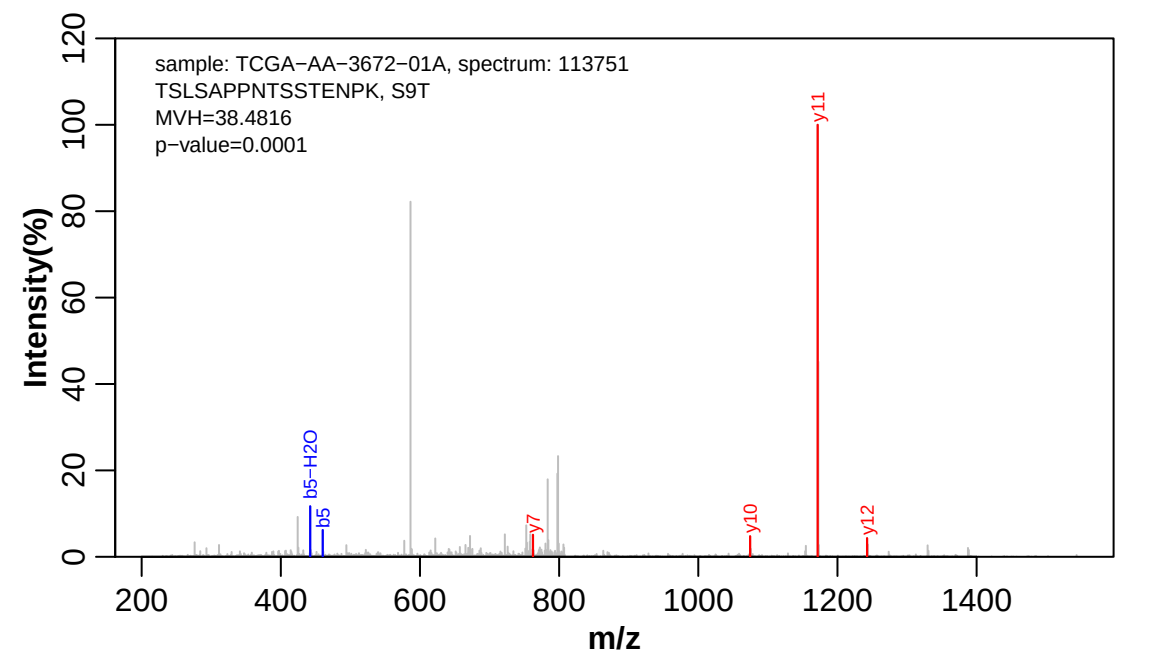

sample: TCGA−AA−3672−01A, spectrum: 138826
SLDPGLKEDTLEFLLK, Q12E
MVH=35.9726
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
b14++−NH3
y14++−H2O
b12++
b11++−H2O
b4−H2O
b3

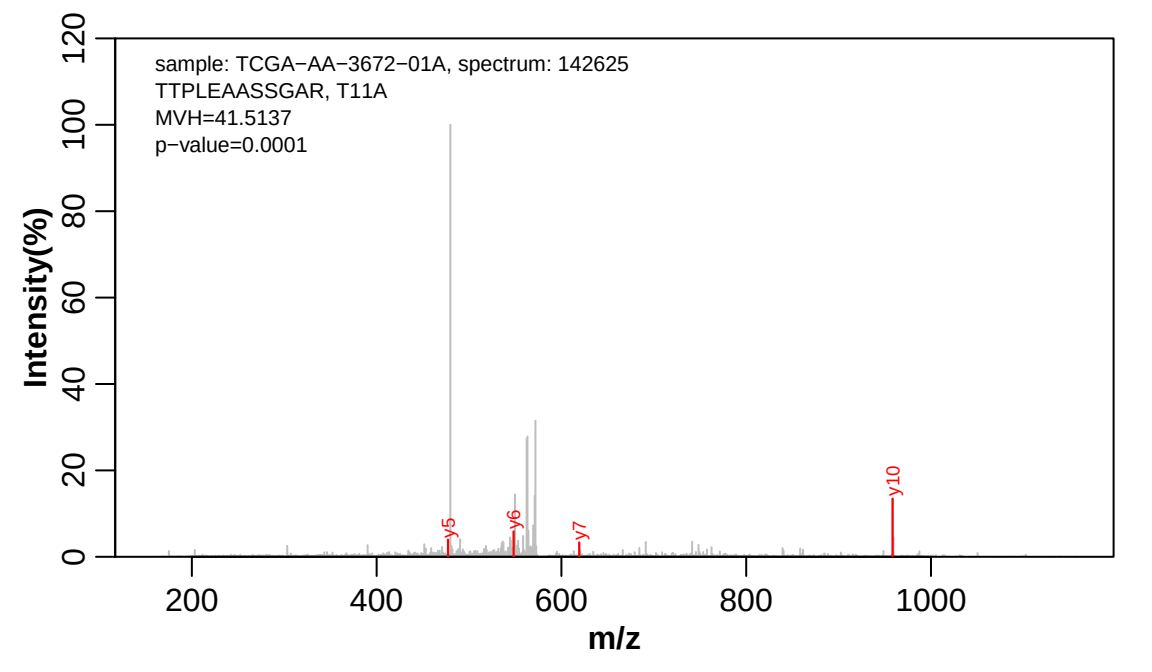

sample: TCGA−AA−3672−01A, spectrum: 146916
SLSLLDSPGLLSGEK, V4I
MVH=42.6791
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
b6−NH3
b6−H2O
y6
b7
b8−NH3
b8−H2O
b8
y8
b9−NH3
y9
b10−H2O
b10−NH3−H2O
y10
b11−H2O
b11−NH3
y11
b12
y12
y13
b14

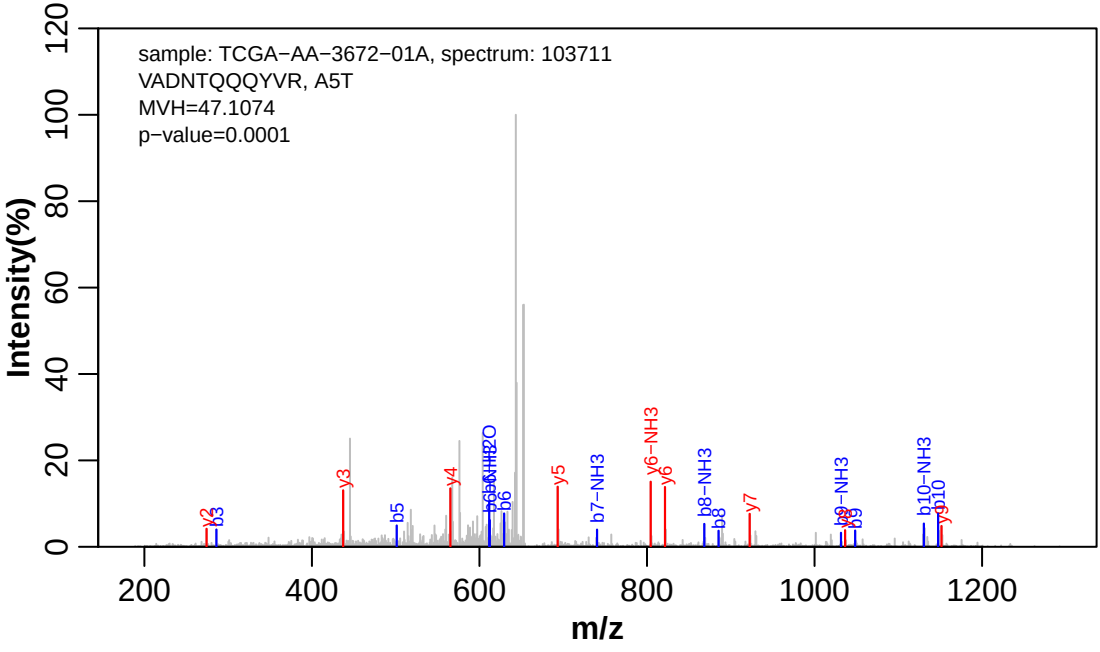

sample: TCGA−AA−3672−01A, spectrum: 114231
SPADPTDLGGQTSPR, I6T
MVH=57.3957
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
y7
y8
y9
y11
b13
y12
y13

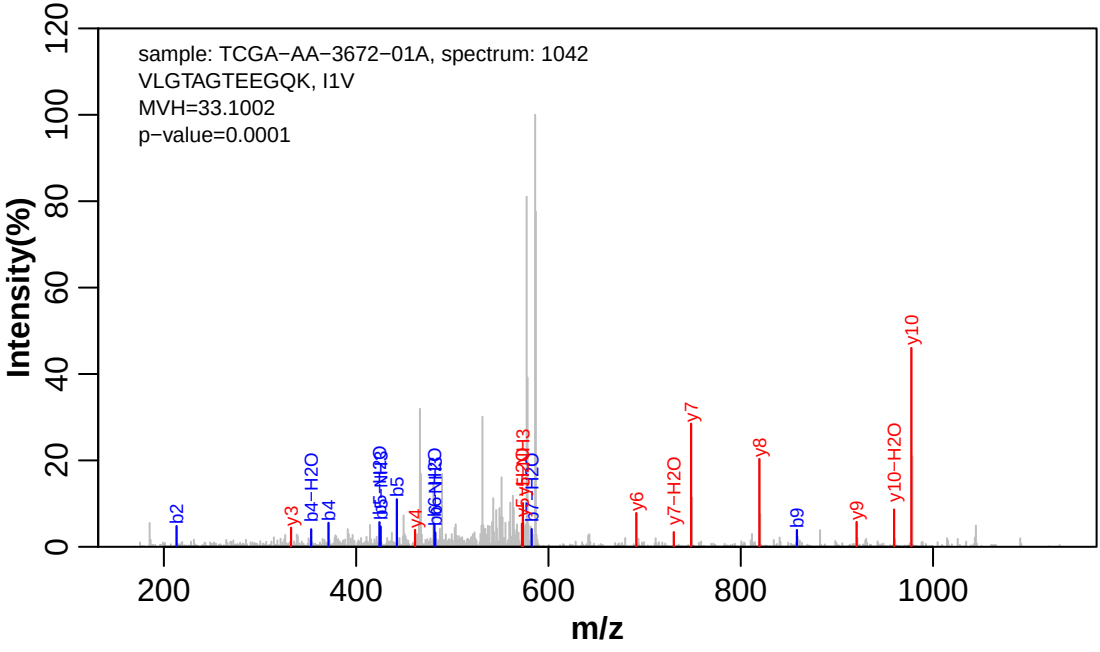

sample: TCGA−AA−3672−01A, spectrum: 96309
SQNKEDYDGLKEEFR, A8D
MVH=77.3423
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b8++−NH3
b6++
y10++
y6++
y5++
y4++
y3++
y3
b8++
y8++
b9++−H2O
y13+++−H2O
y13++
y14+++−H2O
y9++
y12+++
y10++−H2O
y10++
y6++

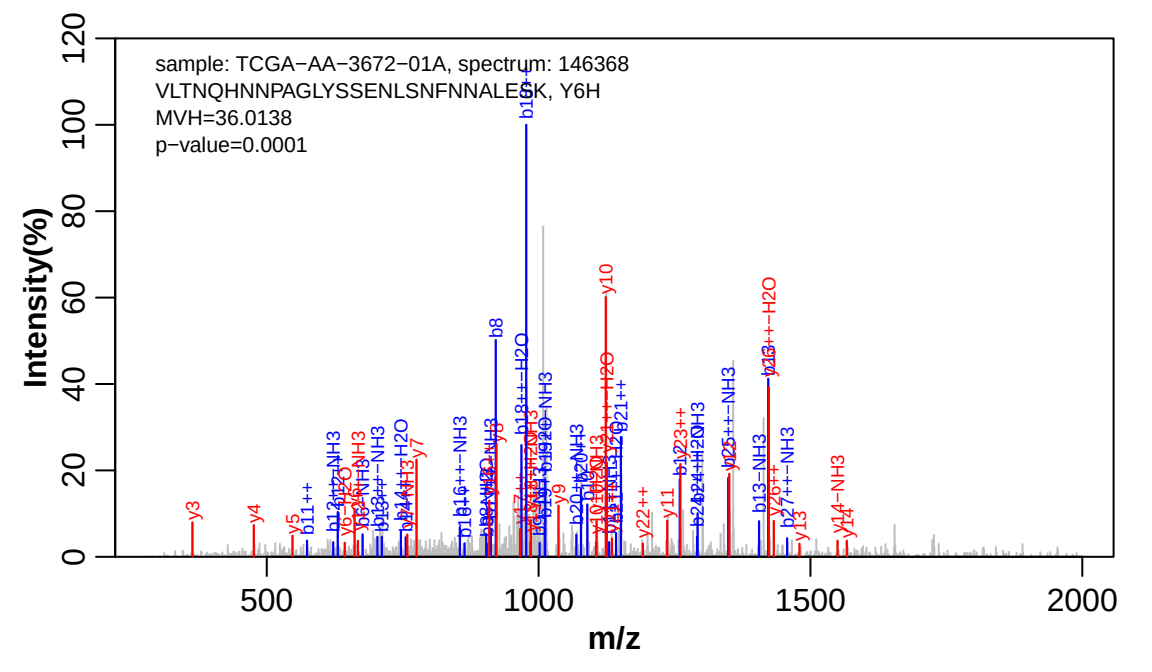

sample: TCGA−AA−3672−01A, spectrum: 105336
SQNKEDYDGLKEEFRK, A8D
MVH=73.3324
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y14++
b14+++
y14+++−H2O
y8+++
y8++
b2
b6++
b15+++
b13++

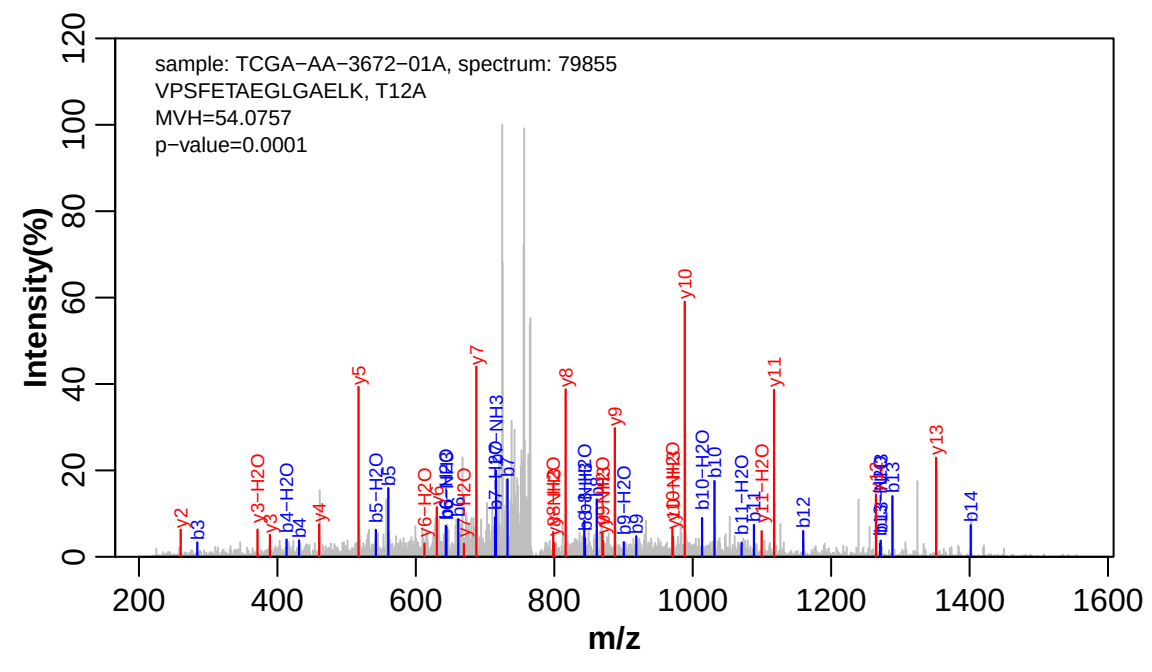

sample: TCGA−AA−3672−01A, spectrum: 113751
TSLSAPPNTSSTENPK, S9T
MVH=38.4816
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b5−H2O
b5
y7
y10
y11
y12

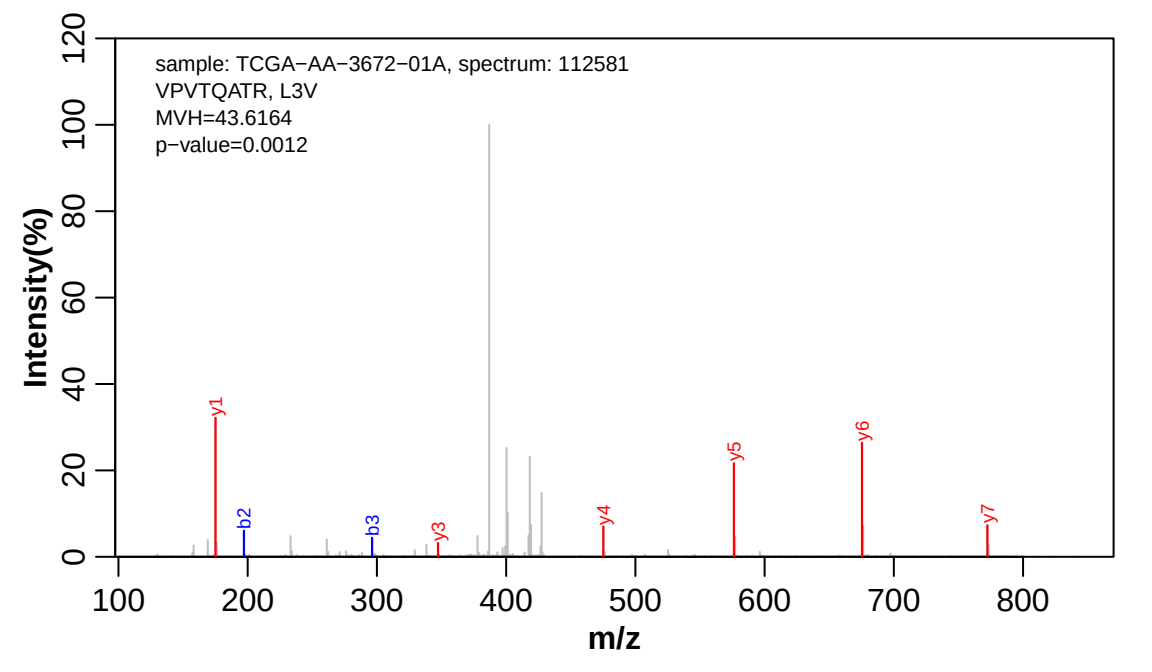

sample: TCGA−AA−3672−01A, spectrum: 142625
TTPLEAASSGAR, T11A
MVH=41.5137
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y10

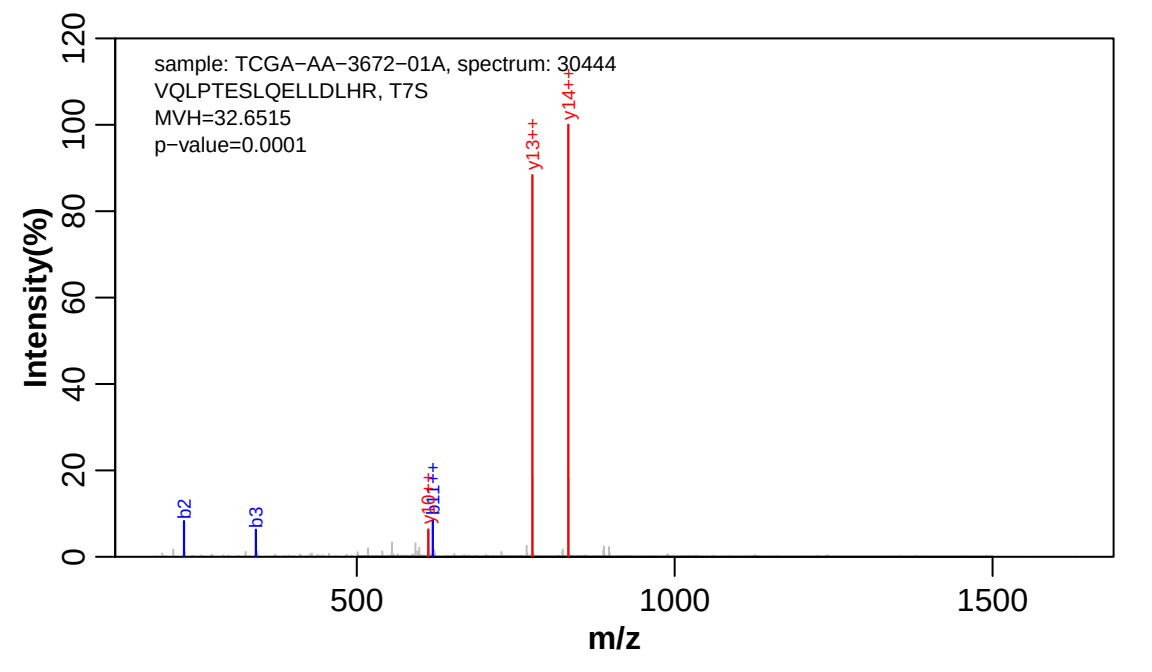

sample: TCGA−AA−3672−01A, spectrum: 103711
VADNTQQQYVR, A5T
MVH=47.1074
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b3
y3
b5
y4
b6
y5
b7−NH3
y6−NH3
y6
b8−NH3
b8
y7
b9−NH3
b9
b10−NH3
y10

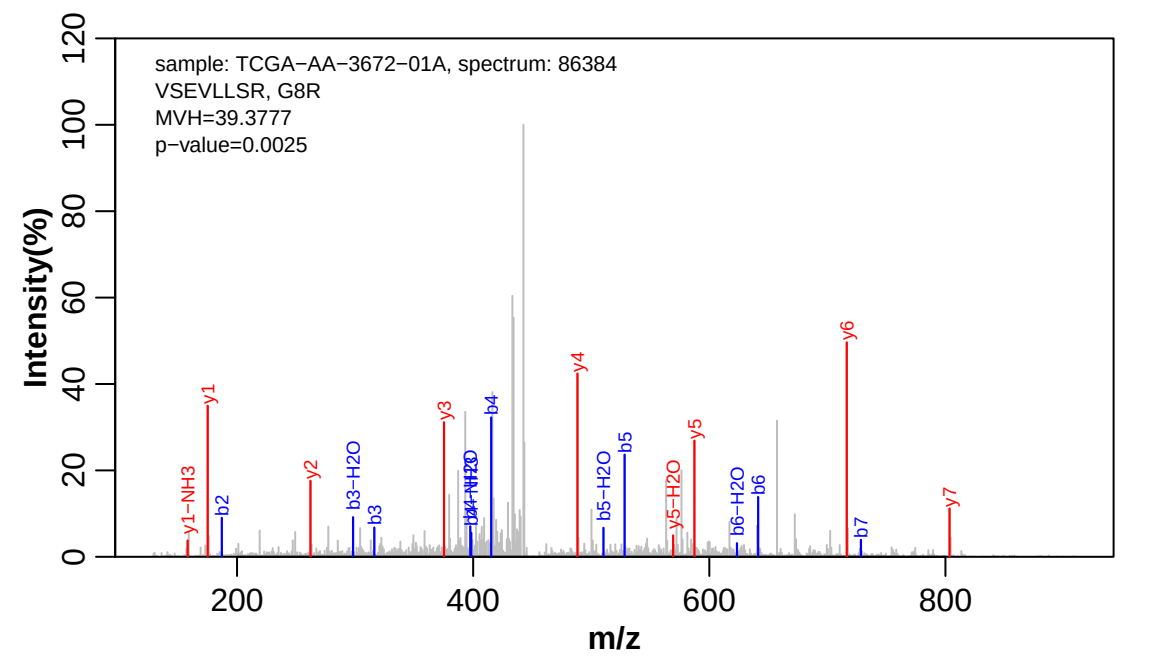

sample: TCGA−AA−3672−01A, spectrum: 1042
VLGTAGTEEGQK, I1V
MVH=33.1002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y3
b4−H2O
b4
b5
y4
y6
y7−H2O
y7
y8
b9
y9
y10−H2O
y10

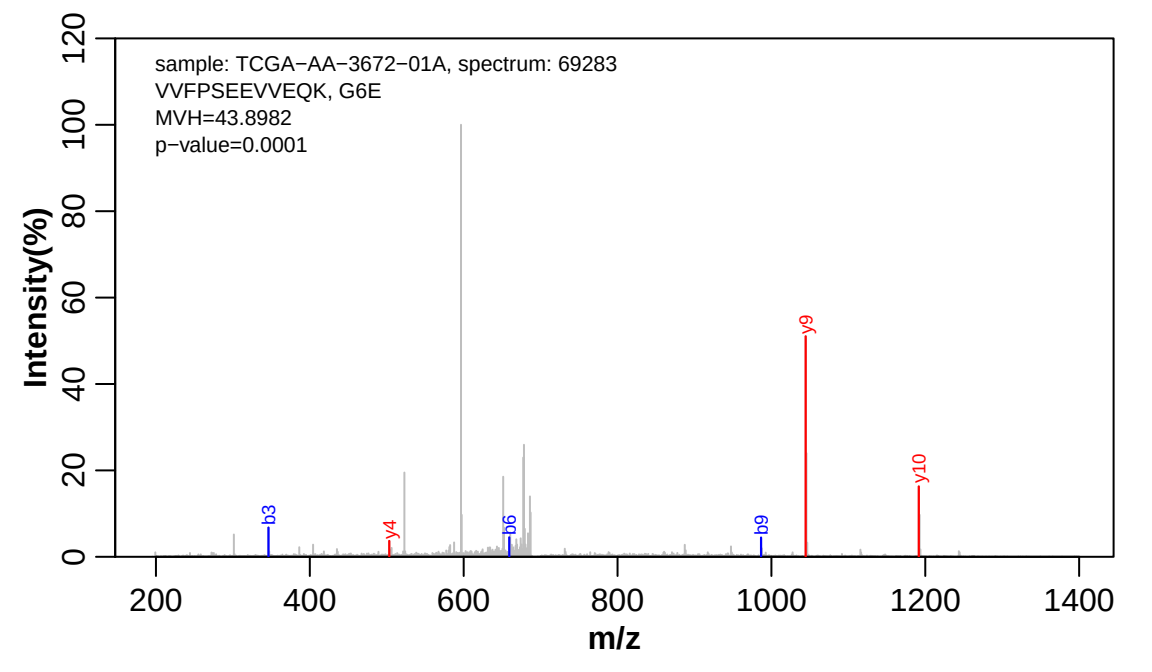

sample: TCGA−AA−3672−01A, spectrum: 146368
VLTNQHNNPAGLYSSENLSNFNNALESK, Y6H
MVH=36.0138
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b16++
b8
y10
y3
y4
y5
b11++
y7
y8
y9
y11
y22++
b13−NH3
y6++
y7++−NH3
y13
y14−NH3
y14

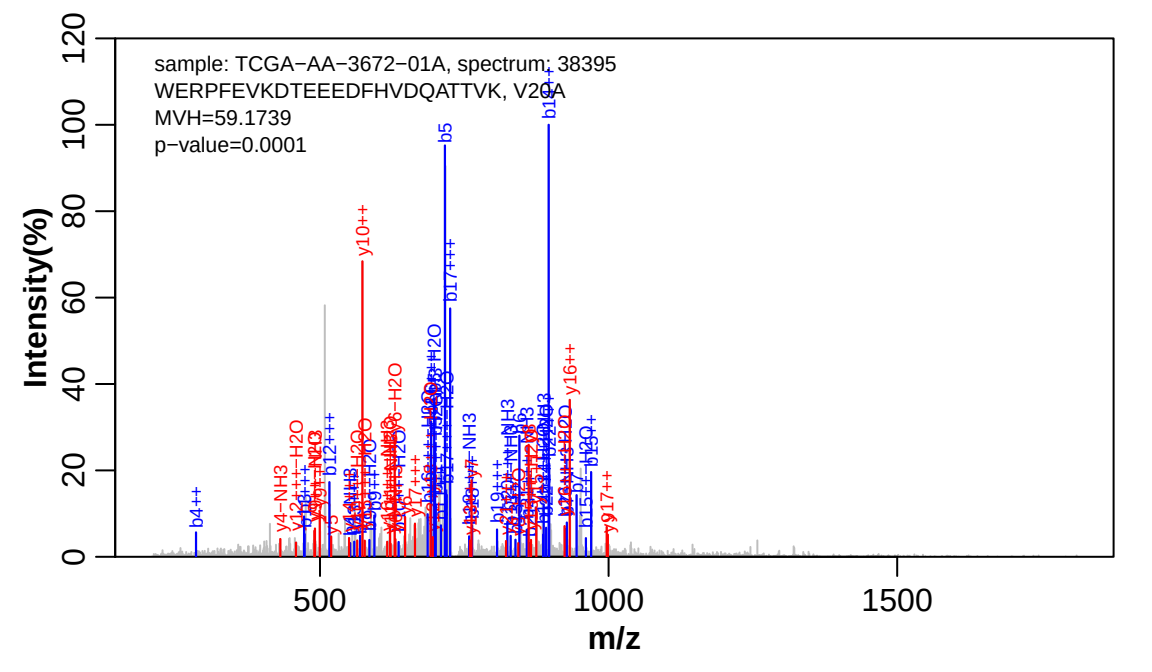

sample: TCGA−AA−3672−01A, spectrum: 79855
VPSFETAEGLGAELK, T12A
MVH=54.0757
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3
y3−H2O
b4
b4−H2O
y4
y5
b5
b5−H2O
y6−H2O
y7
y7−H2O
b7
b7−H2O−NH3
y8
y8−H2O
y9
b9
b9−H2O
y10
b10
b10−H2O
b11−H2O
y11
y11−H2O
b12
b13
y13
b14

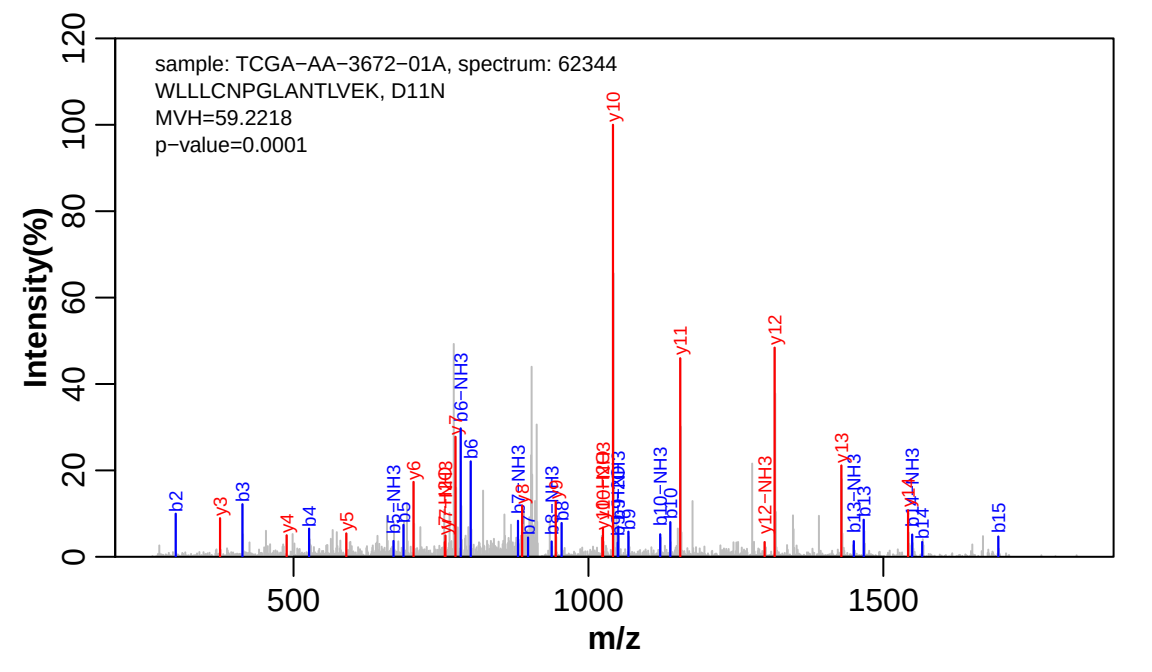

sample: TCGA−AA−3672−01A, spectrum: 112581
VPVTQATR, L3V
MVH=43.6164
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
b3
y3
y4
y5
y6
y7

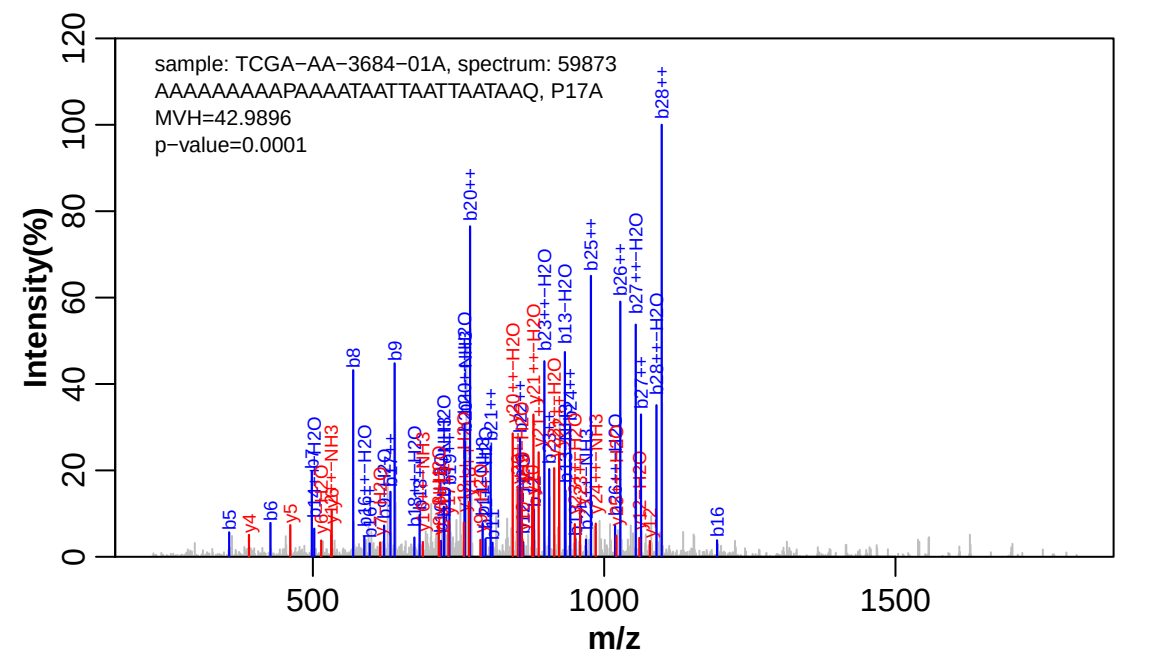

sample: TCGA−AA−3672−01A, spectrum: 30444
VQLPTESLQELLDLHR, T7S
MVH=32.6515
p−value=0.0001
y14++
y13++
y11++
y10++
b3
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

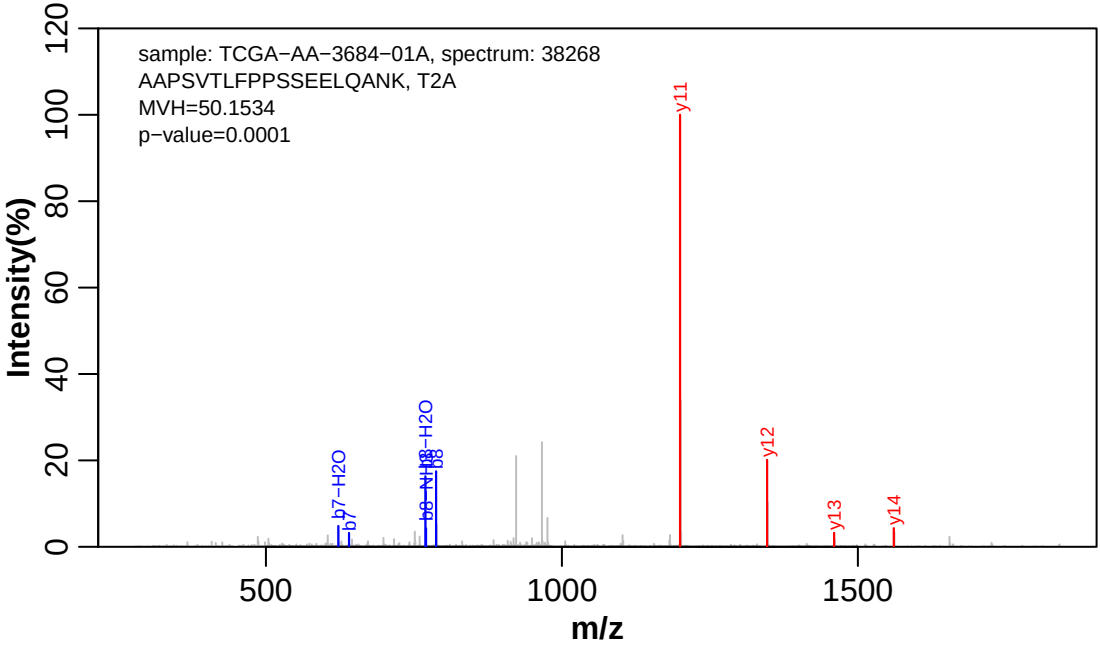

sample: TCGA−AA−3672−01A, spectrum: 86384
VSEVLLSR, G8R
MVH=39.3777
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
y2
b3−H2O
b3
y3
b4
y4
b5
b5−H2O
y5
y5−H2O
b6−H2O
b6
y6
b7
y7

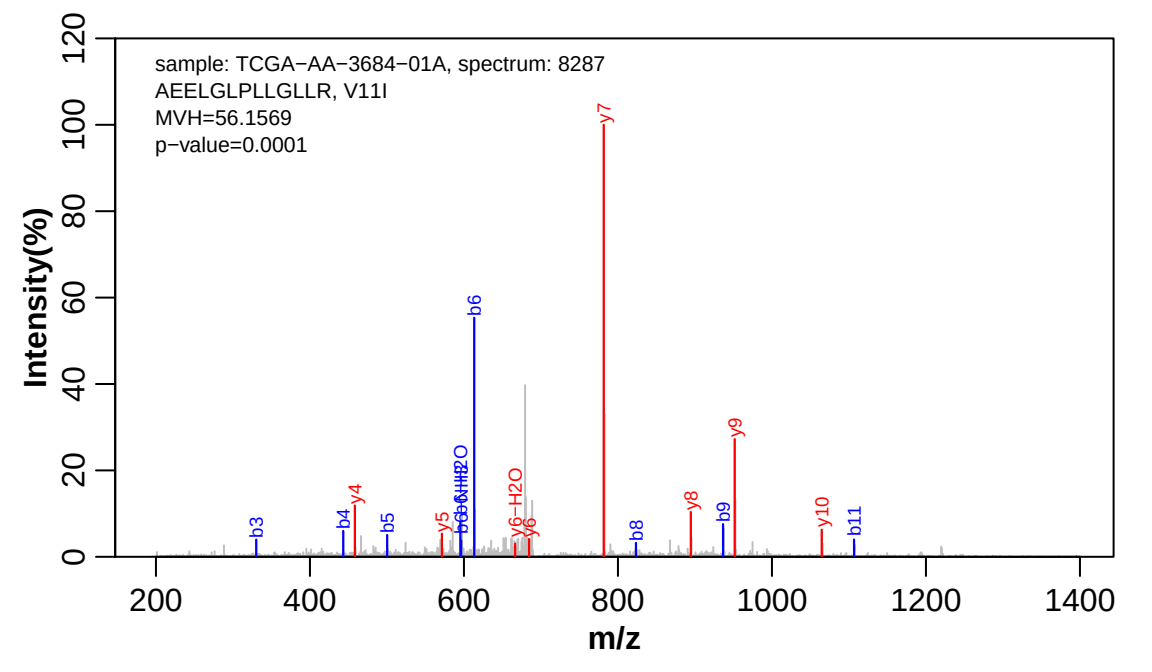

sample: TCGA−AA−3672−01A, spectrum: 69283
VVFPSEEVVEQK, G6E
MVH=43.8982
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b3
y4
b6
b9
y9
y10

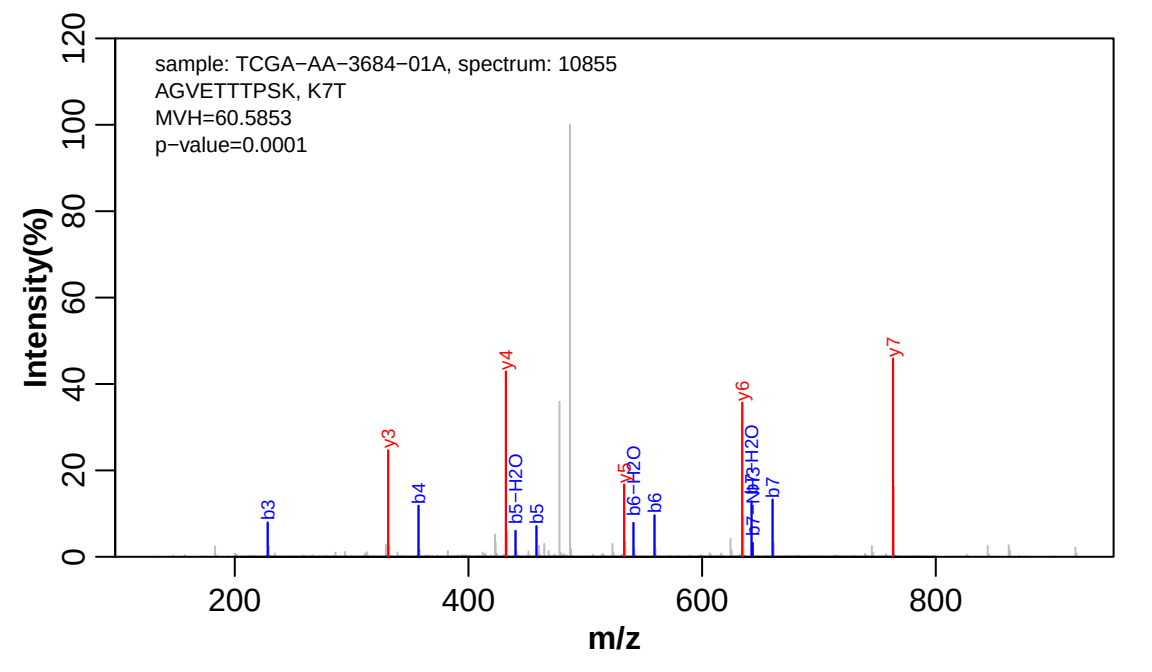

sample: TCGA−AA−3672−01A, spectrum: 38395
WERPFEVKDTEEEDFHVDQATTVK, V26A
MVH=59.1739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4++
y4−NH3
y4−H2O
b5
y10++
b12+++
b17+++
b18++
y16++
y17++

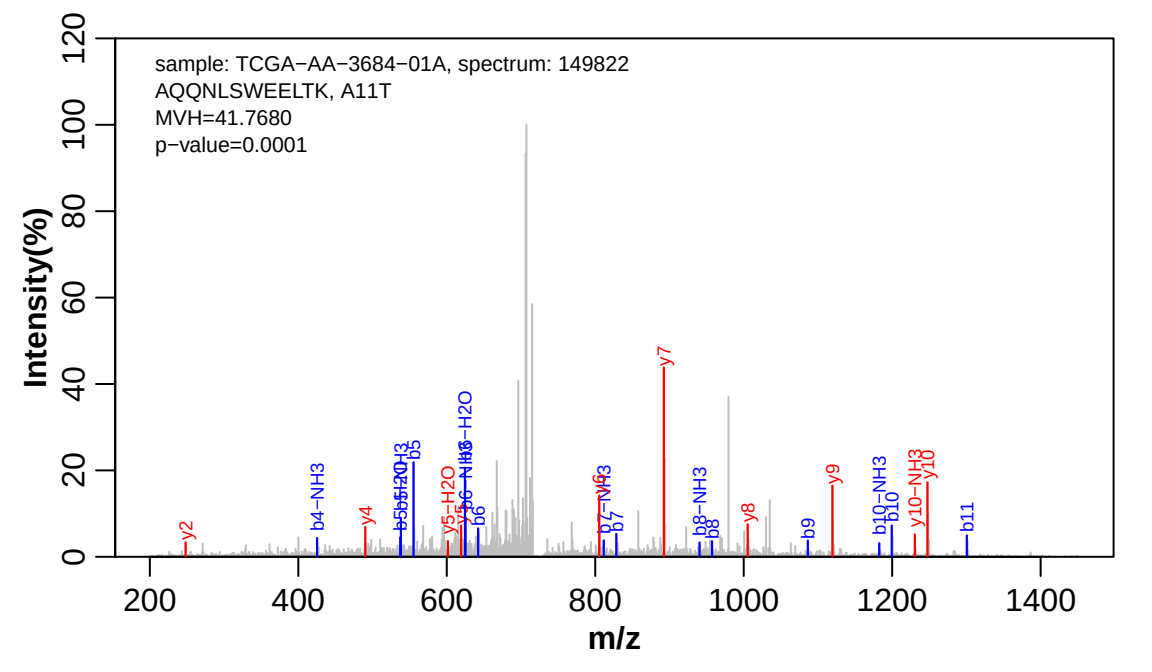

sample: TCGA−AA−3672−01A, spectrum: 62344
WLLLCNPGLANTLVEK, D11N
MVH=59.2218
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y11
y12
y12−NH3
y13
b2
y3
b3
y4
b4
y5
b5−NH3
b5
y6
b6−NH3
b6
b7−NH3
b8−NH3
b10−NH3
b13−NH3
b14
b15

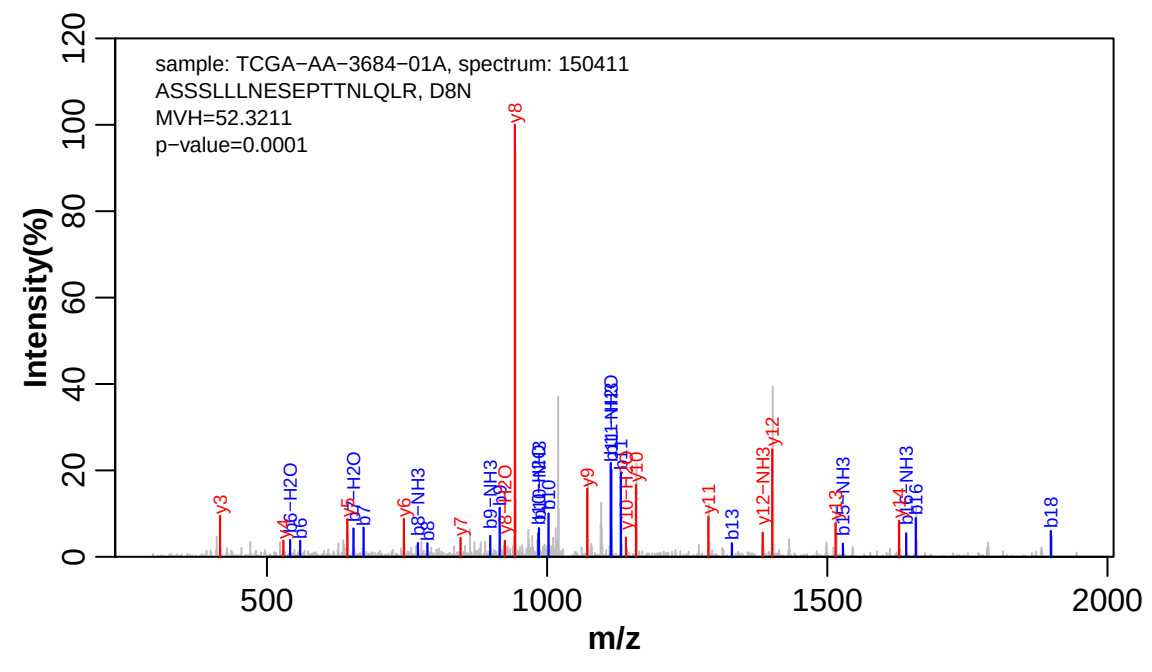

sample: TCGA−AA−3684−01A, spectrum: 59873
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=42.9896
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++
b25++
b26++
b27++−H2O
b27++
b28++−H2O
b8
b9
b13−H2O
b23++−H2O
b5
y4
b6
y5
b16

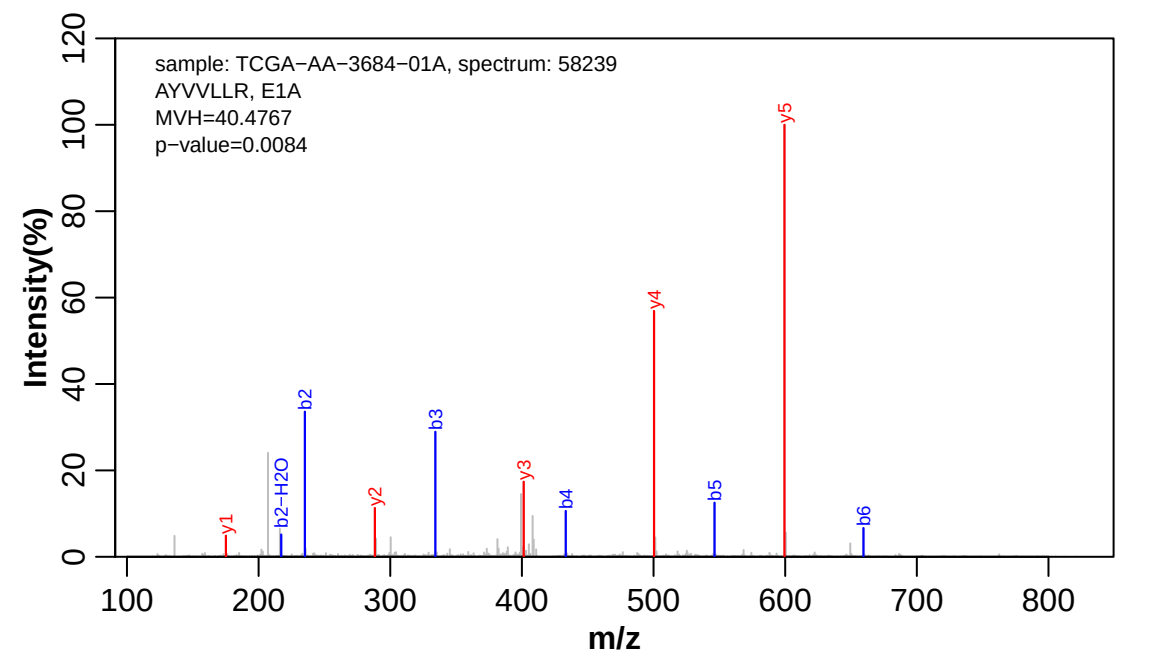

sample: TCGA−AA−3684−01A, spectrum: 38268
AAPSVTLFPPSSEELQANK, T2A
MVH=50.1534
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b8−NH3−H2O

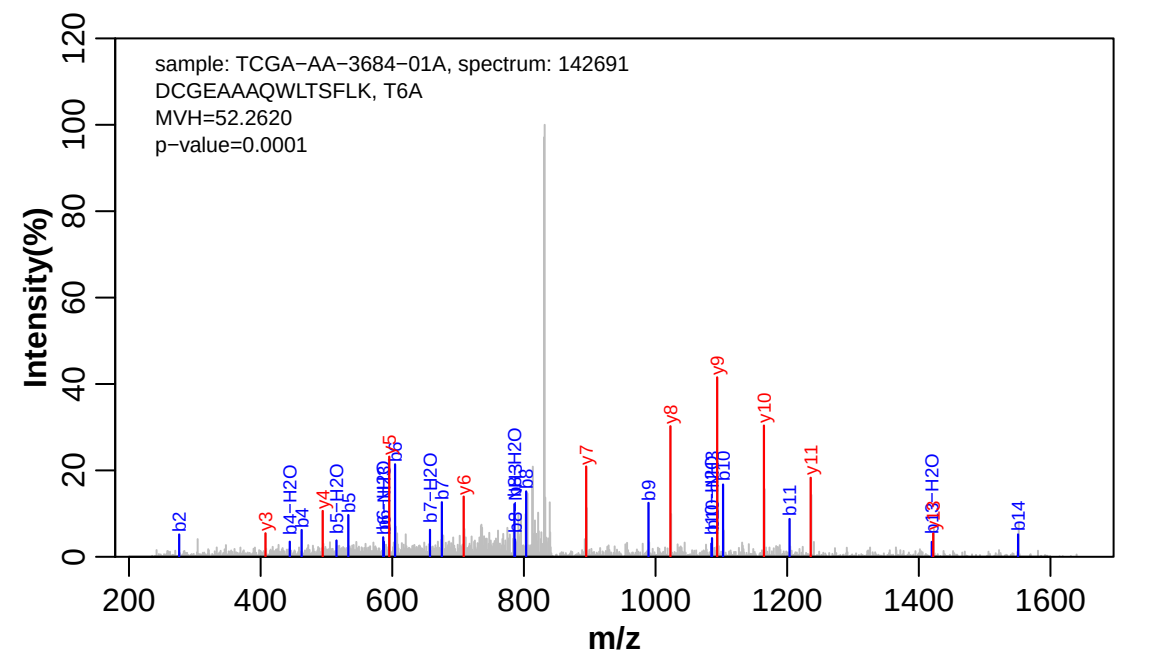

sample: TCGA−AA−3684−01A, spectrum: 8287
AEELGLPLLGLLR, V11I
MVH=56.1569
p−value=0.0001
Intensity(%)
m/z
y7
b6
y9
y4
y8
y10
b3
b4
b5
y5
b6−NH3
b6−H2O
y6−H2O
y6
b8
b9
b11

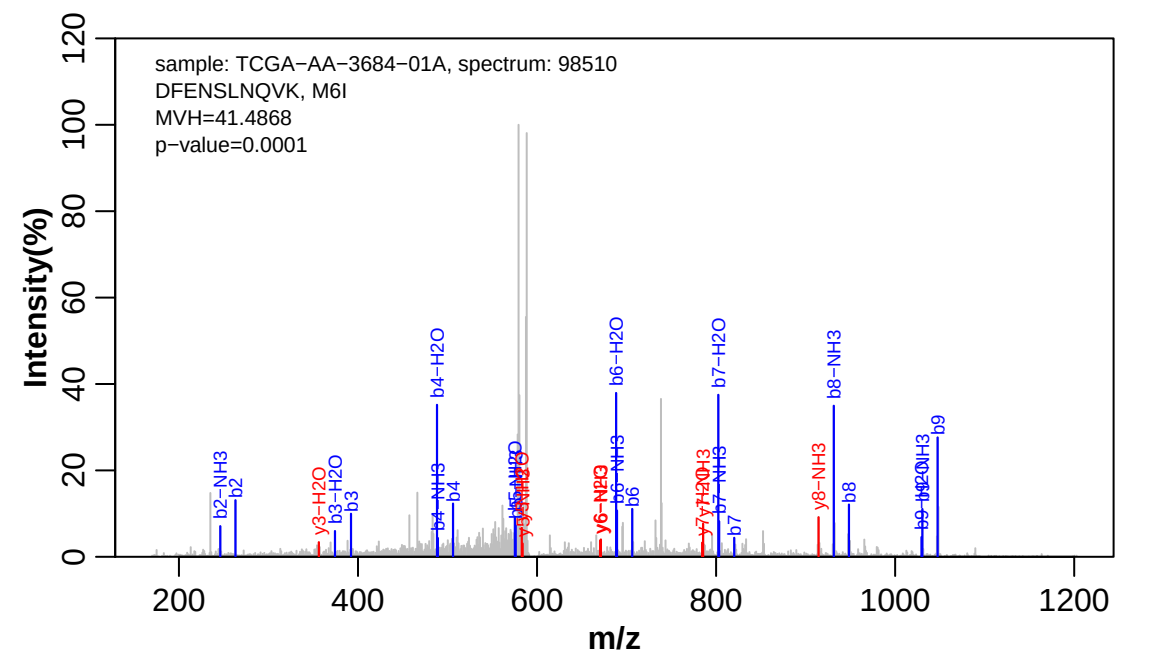

sample: TCGA−AA−3684−01A, spectrum: 10855
AGVETTTPSK, K7T
MVH=60.5853
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7

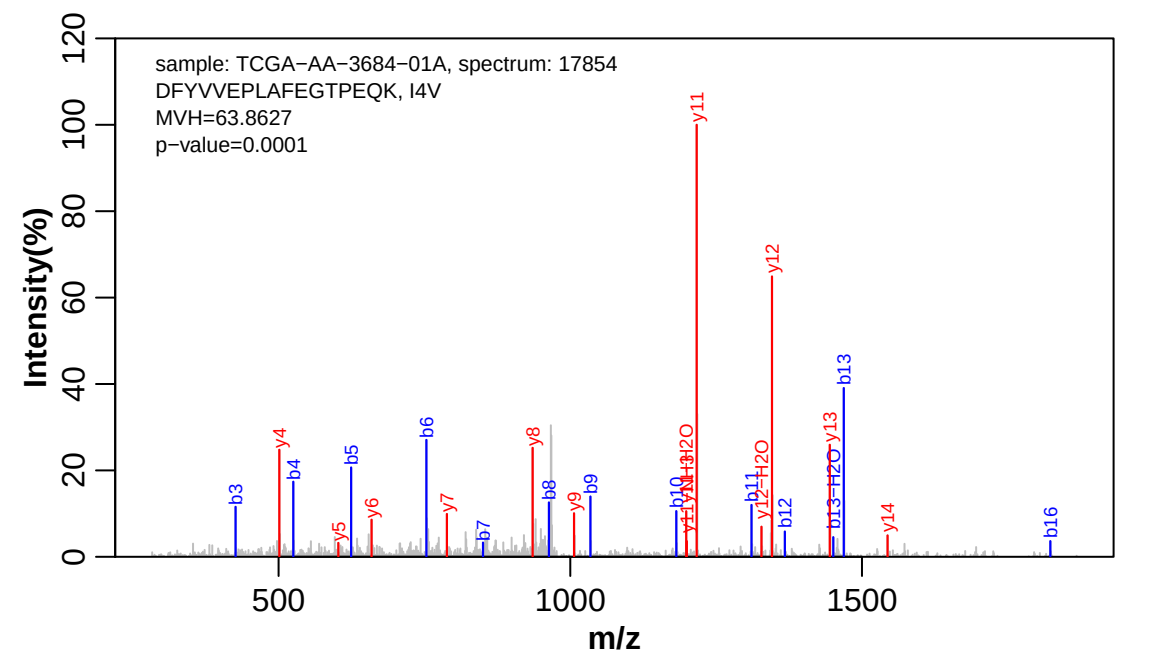

sample: TCGA−AA−3684−01A, spectrum: 149822
AQQNLSWEELTK, A11T
MVH=41.7680
p−value=0.0001
Intensity(%)
m/z
y2
b4−NH3
y4
b5−H2O−NH3
b5
y5−H2O
b6−H2O
b6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9
y9
b10−NH3
b10
y10−NH3
y10
b11

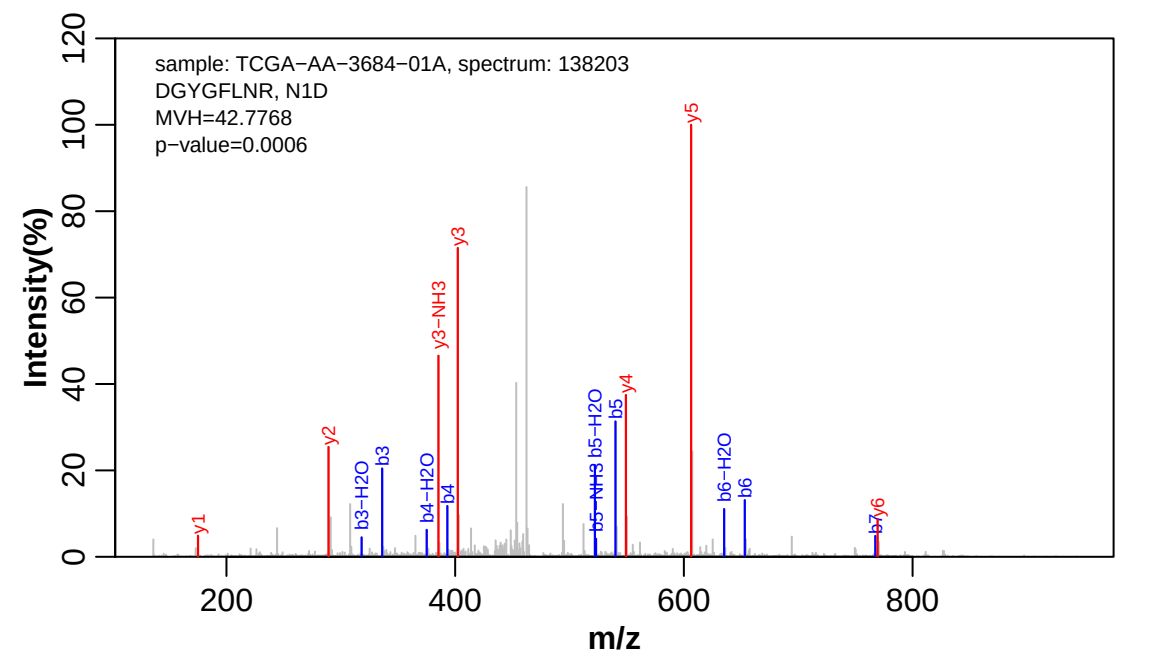

sample: TCGA−AA−3684−01A, spectrum: 150411
ASSSLLLNESEPTTNLQLR, D8N
MVH=52.3211
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y6−H2O
y7−H2O
y6−NH3
y9−NH3
y9
y10−NH3
y10
y11
b13
y12−NH3
y12
b15−NH3
b16
b18

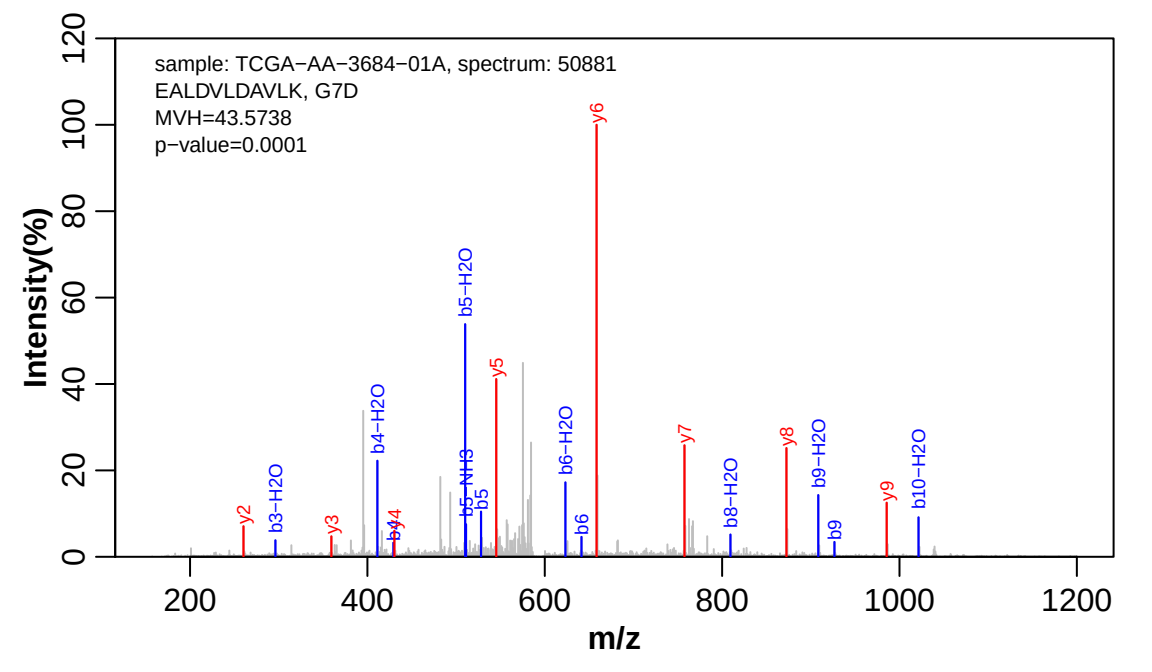

sample: TCGA−AA−3684−01A, spectrum: 58239
AYVVLLR, E1A
MVH=40.4767
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

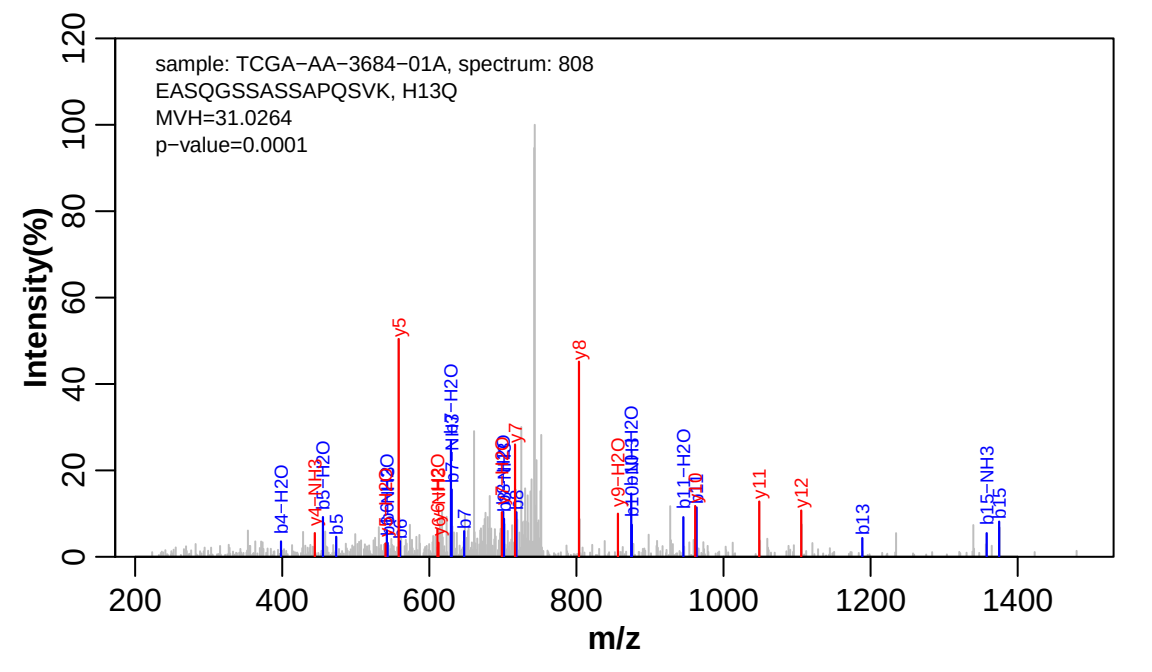

sample: TCGA−AA−3684−01A, spectrum: 142691
DCGEAAAQWLTSFLK, T6A
MVH=52.2620
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
b4−H2O
y4
b5−H2O
b5
b6−NH3
b6
y5
b7−H2O
b7
y6
b8−NH3
b8
b8−H2O
y7
b9
y8
y9
b10−NH3
b10
y10
b11
y11
b13−H2O
b14

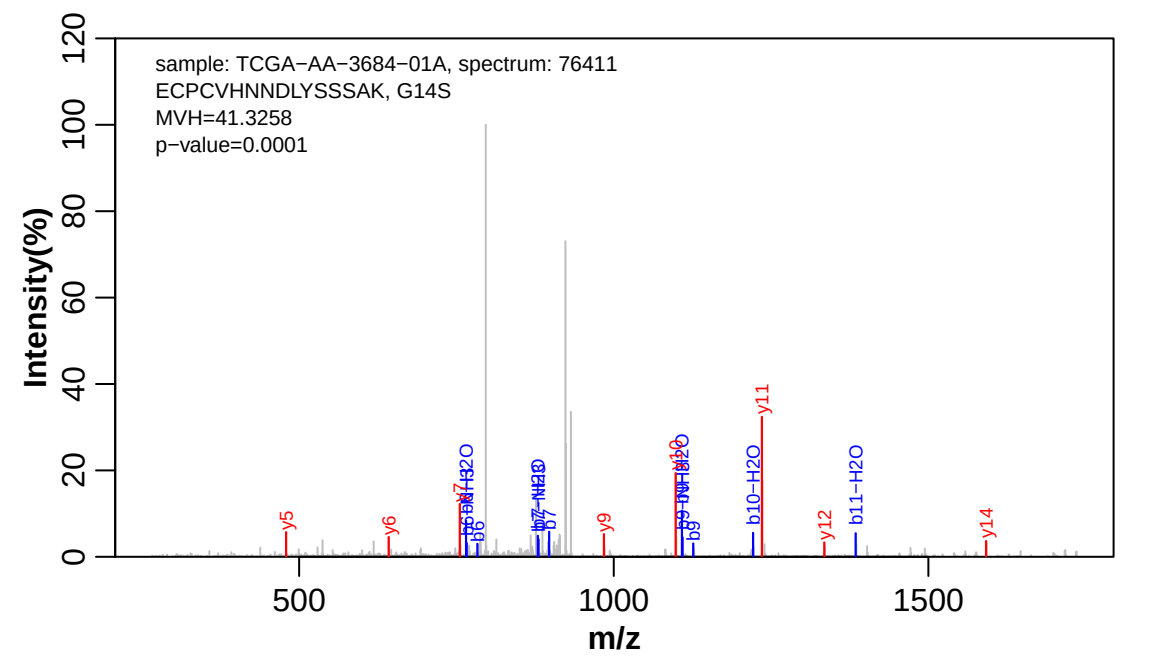

sample: TCGA−AA−3684−01A, spectrum: 98510
DFENSLNQVK, M6I
MVH=41.4868
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
y3−H2O
b3−H2O
b3
b4−H2O
b4−NH3
b4
b6−H2O
b6−NH3
b6
y7−H2O
b7−H2O
b7−NH3
b7
y8−NH3
b8−NH3
b8
b9
b9−H2O

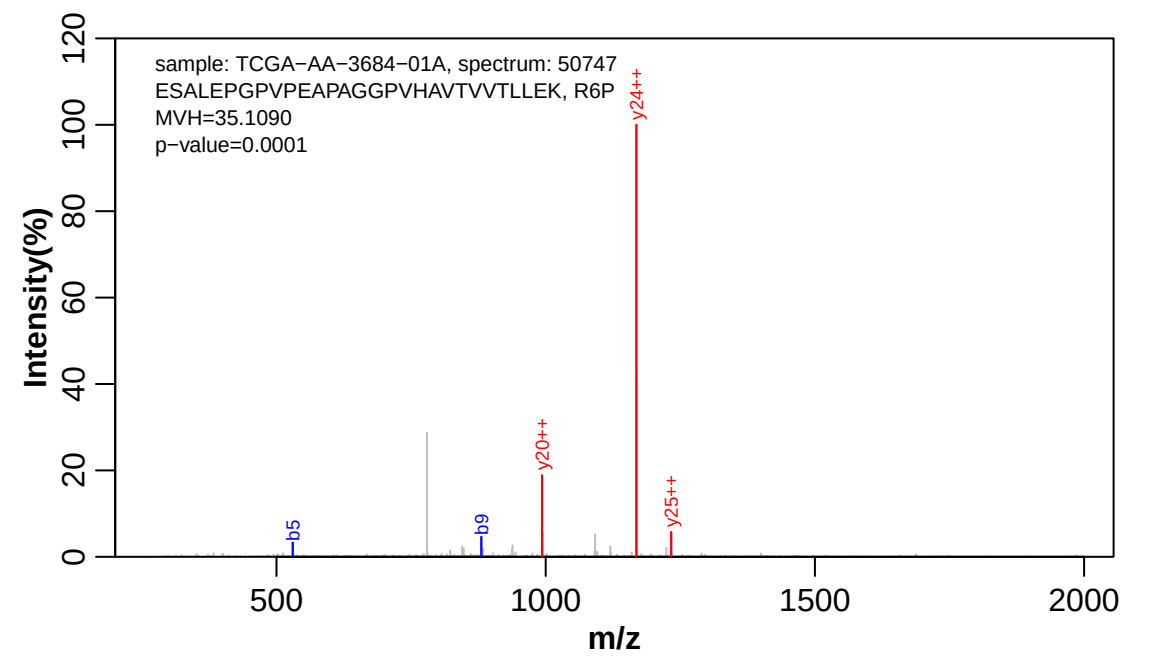

sample: TCGA−AA−3684−01A, spectrum: 17854
DFYVVEPLAFEGTPEQK, I4V
MVH=63.8627
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y5
y6
b6
y7
b7
y8
b8
y9
b9
b10
y11−H2O
y11
b11
y12−H2O
y12
b12
b13
b13−H2O
y13
y14
b16

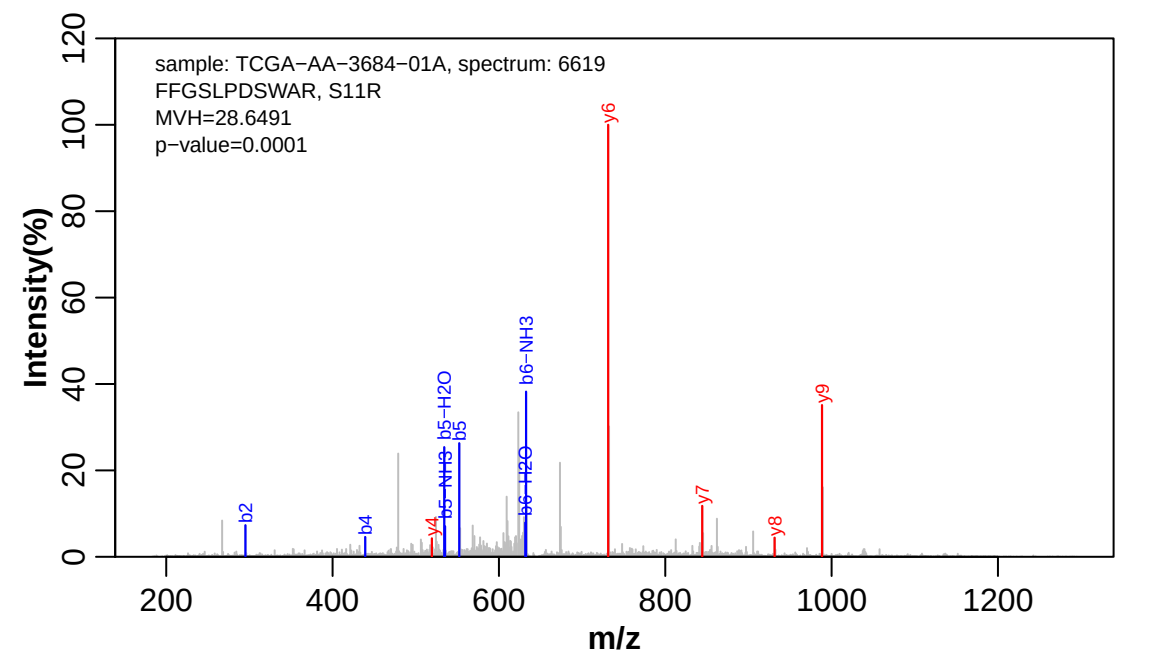

sample: TCGA−AA−3684−01A, spectrum: 138203
DGYGFLNR, N1D
MVH=42.7768
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

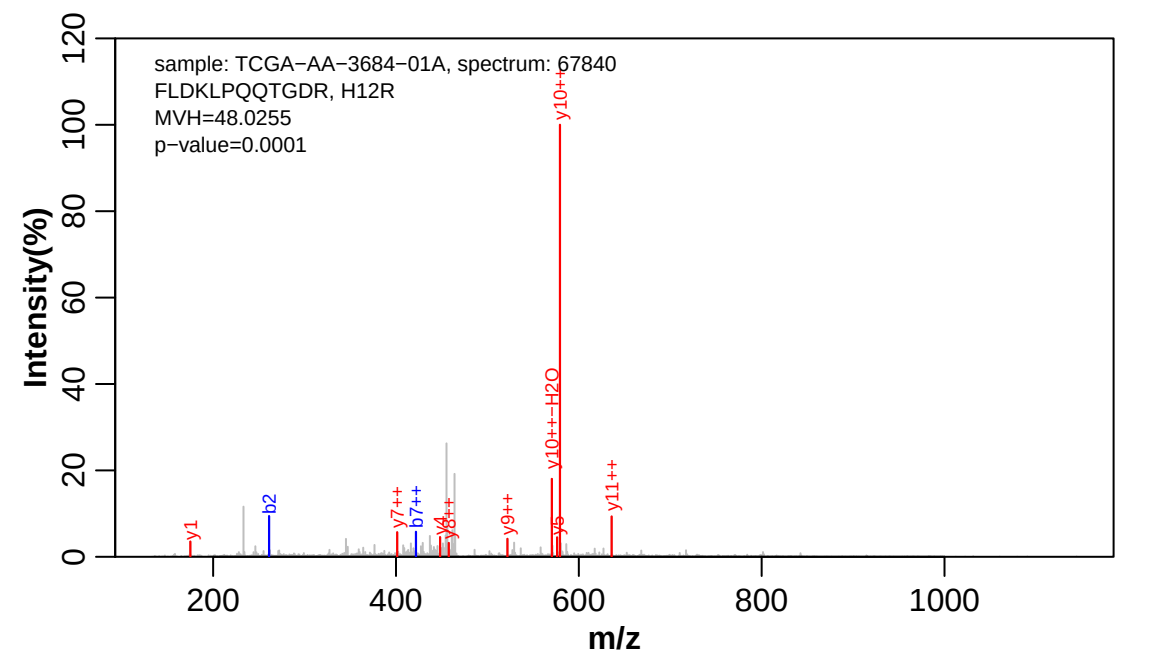

sample: TCGA−AA−3684−01A, spectrum: 50881
EALDVLDAVLK, G7D
MVH=43.5738
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O

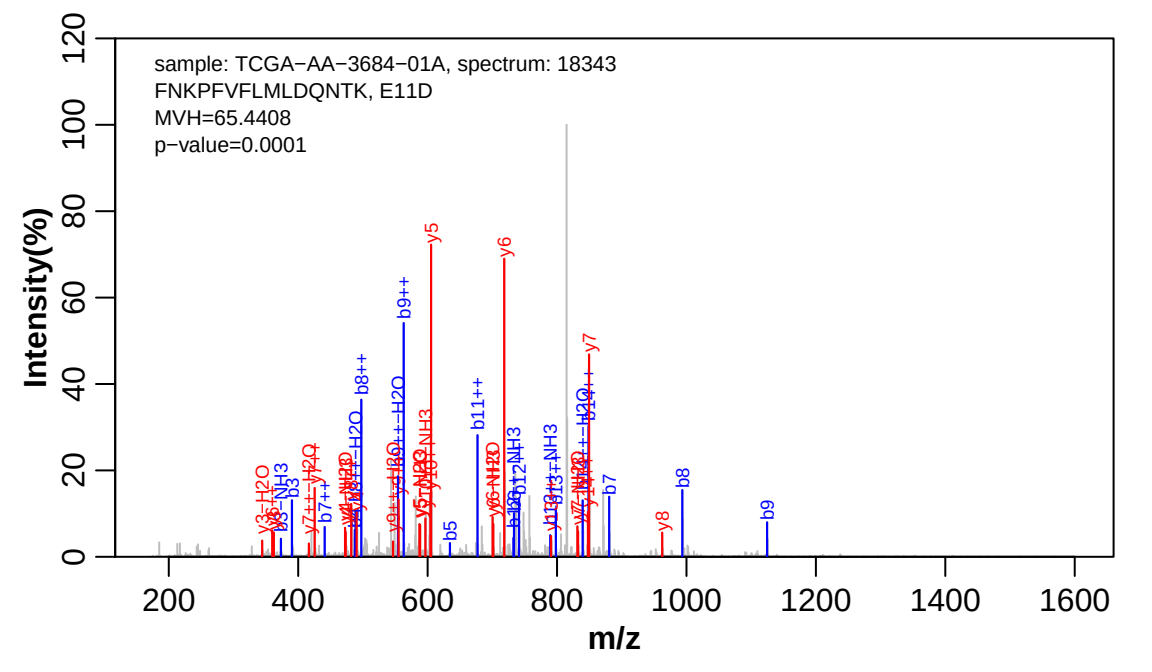

sample: TCGA−AA−3684−01A, spectrum: 808
EASQGSSASSAPQSVK, H13Q
MVH=31.0264
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
y4−NH3
b5−H2O
b5
y5
y8
b7−H2O
b7
y7
y9−H2O
b11−H2O
y11
y12
b13
b15−NH3
b15

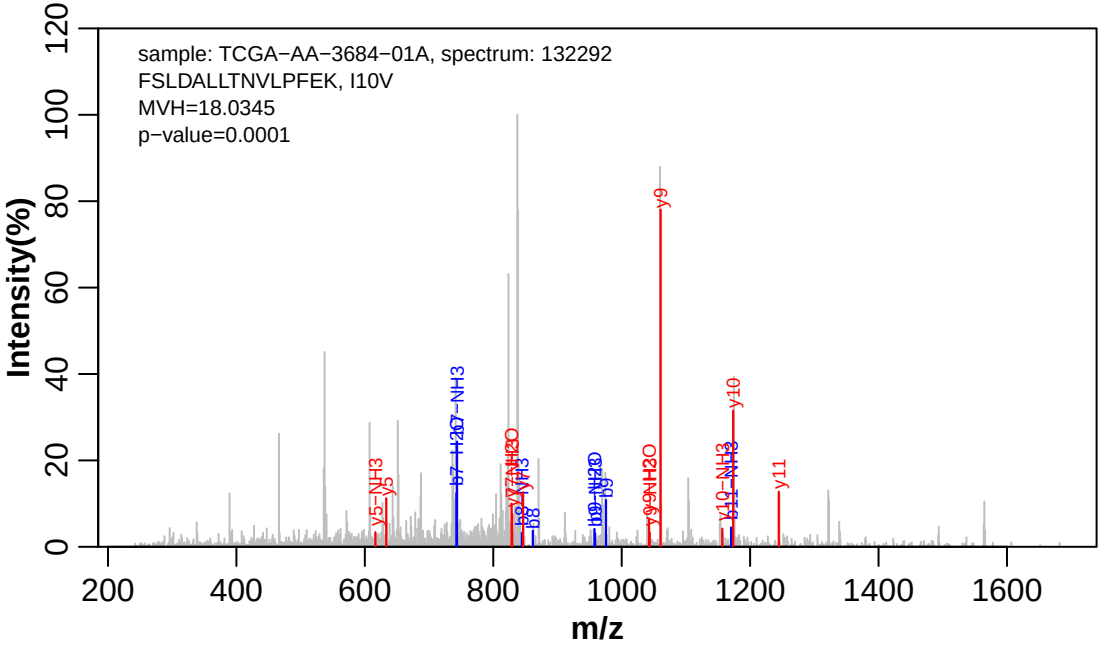

sample: TCGA−AA−3684−01A, spectrum: 76411
ECPCVHNNDLYSSSAK, G14S
MVH=41.3258
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
y6
y9
y11
y12
y14
b10−H2O
b11−H2O

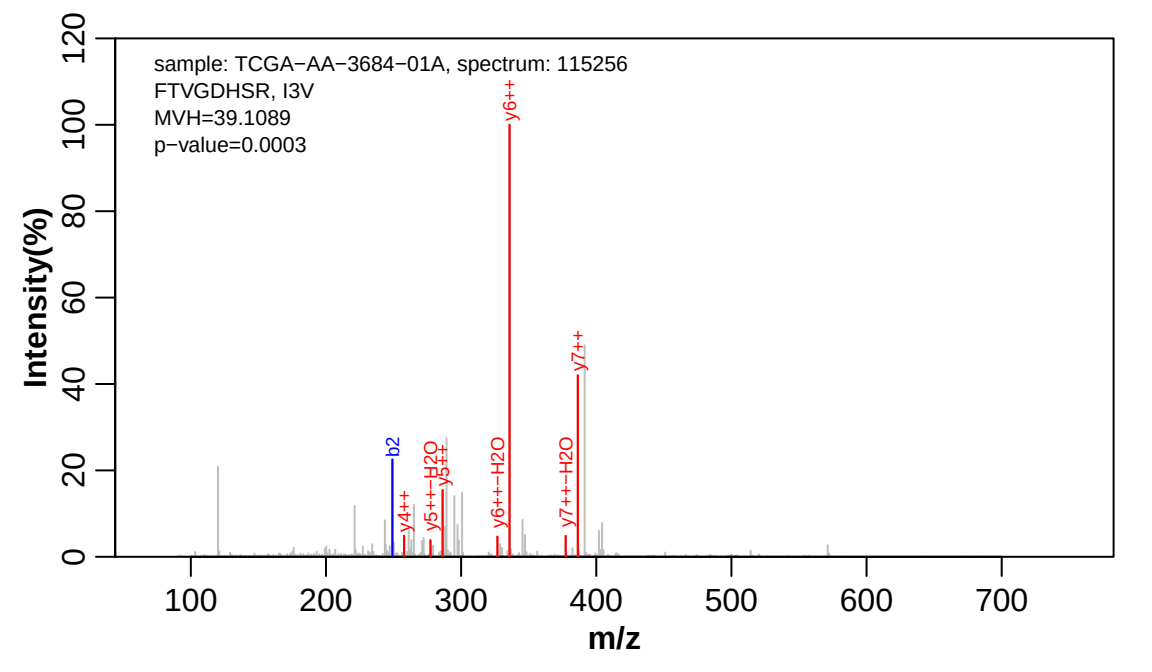

sample: TCGA−AA−3684−01A, spectrum: 50747
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=35.1090
p−value=0.0001
y24++
y20++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

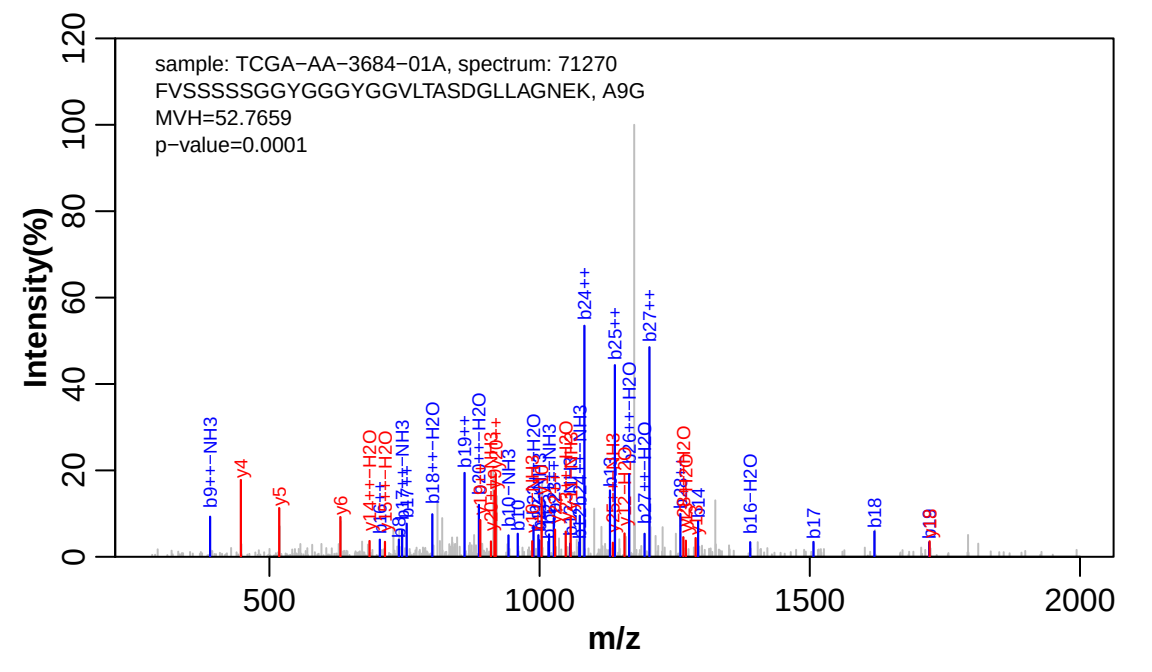

sample: TCGA−AA−3684−01A, spectrum: 6619
FFGSLPDSWAR, S11R
MVH=28.6491
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

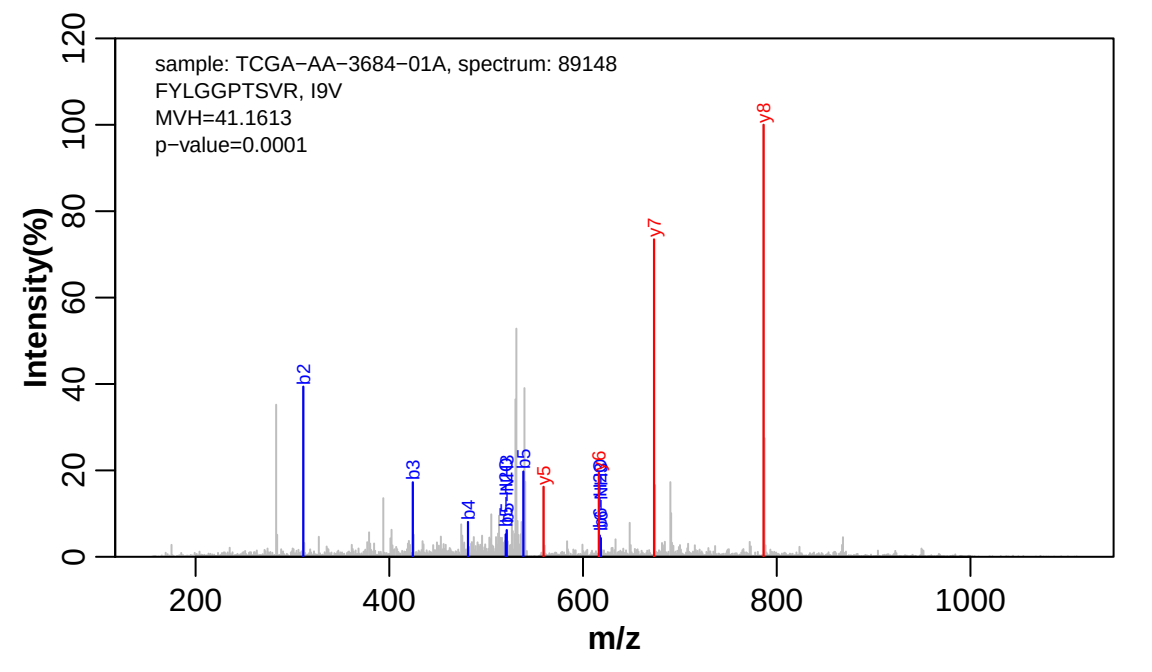

sample: TCGA−AA−3684−01A, spectrum: 67840
FLDKLPQQTGDR, H12R
MVH=48.0255
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y7++
b7++
y8++
y9++
y10++−H2O
y10++
y11++

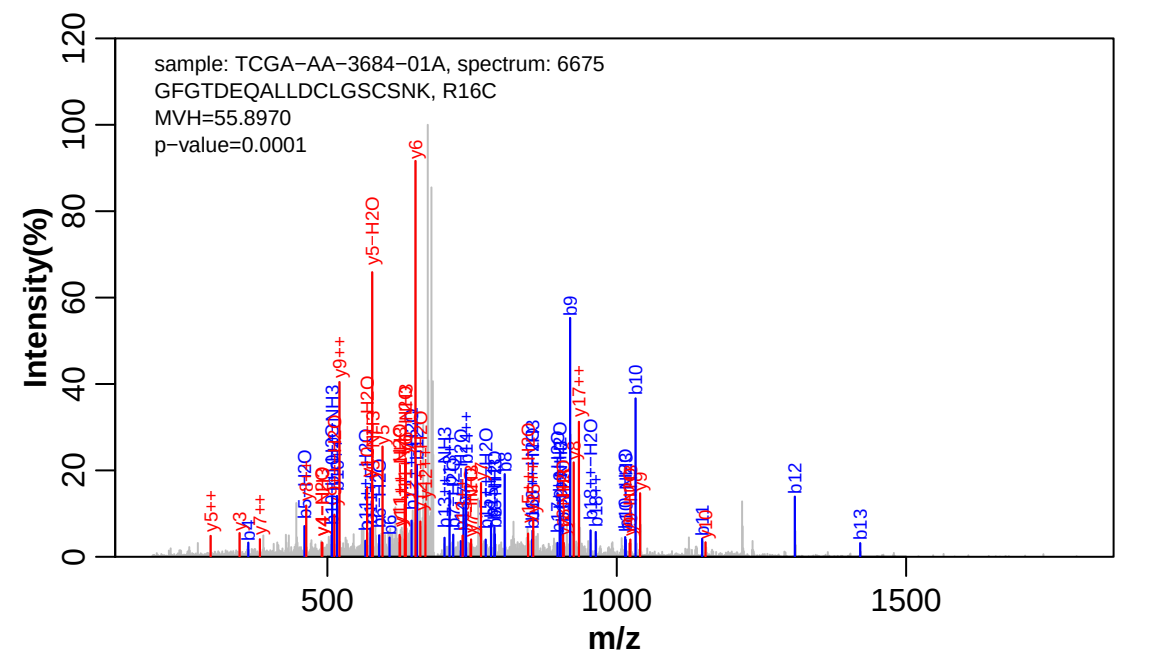

sample: TCGA−AA−3684−01A, spectrum: 18343
FNKPFVFLMLDQNTK, E11D
MVH=65.4408
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b5
b7
b8
b9
b9++
b8++
b11++

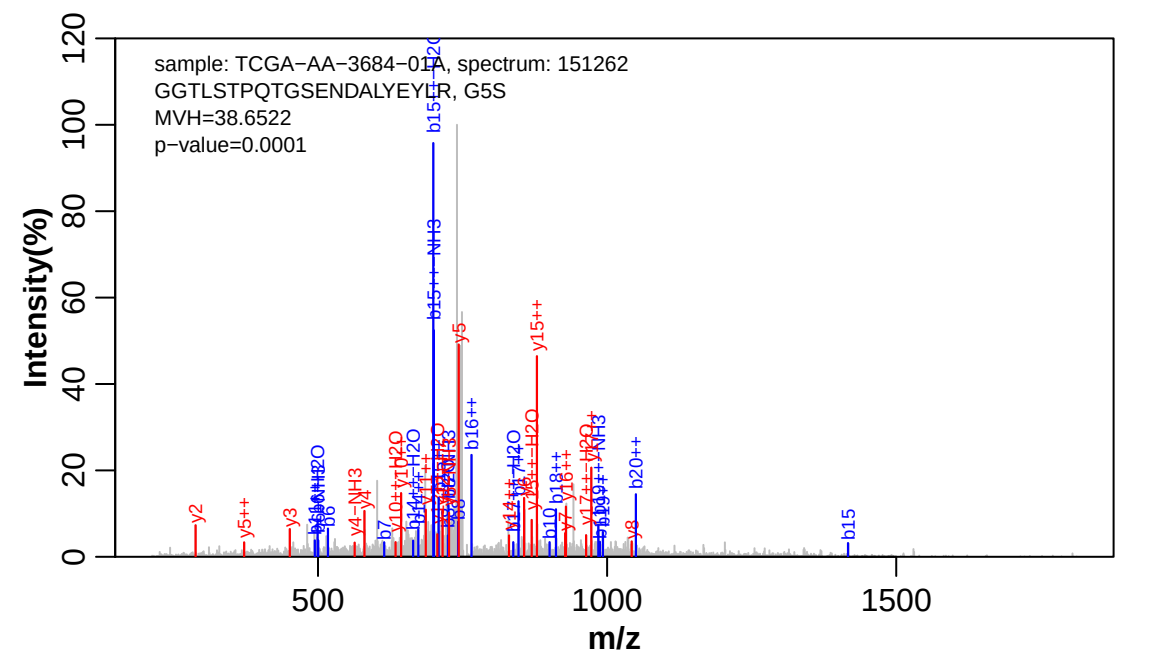

sample: TCGA−AA−3684−01A, spectrum: 132292
FSLDALLTNVLPFEK, I10V
MVH=18.0345
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y9
y10
y11
y5−NH3
b7−H2O−NH3
b7−NH3
y7−NH3
y7−H2O
b8−NH3
b8
y9−NH3
y9−H2O
y10−NH3
y11−NH3

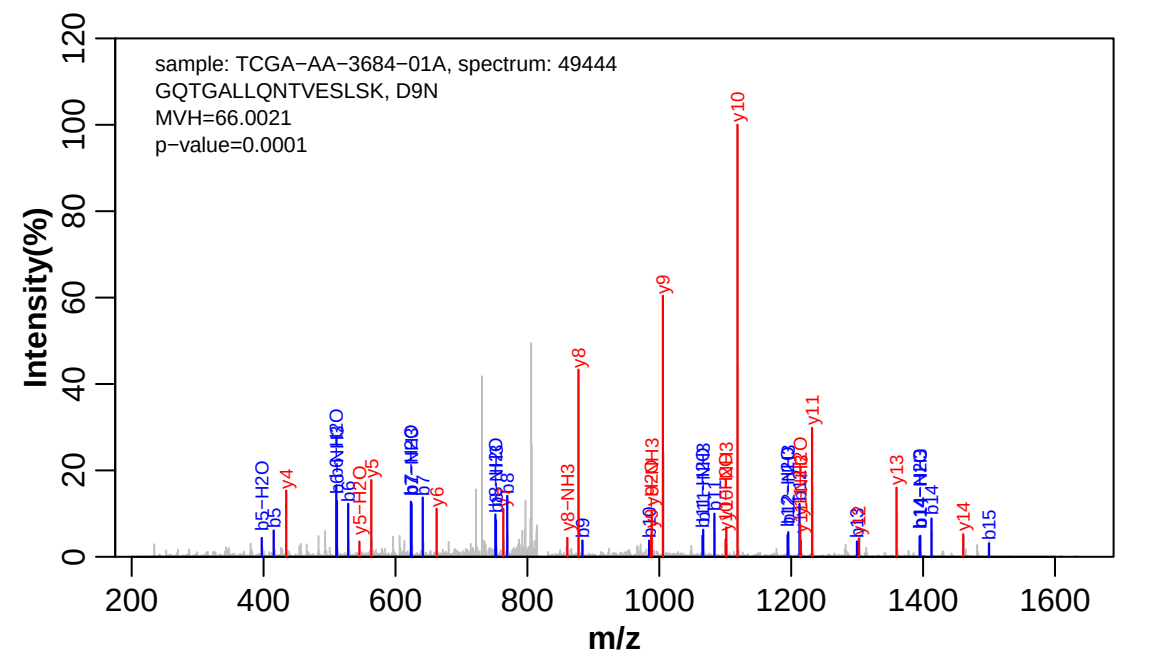

sample: TCGA−AA−3684−01A, spectrum: 115256
FTVGDHSR, I3V
MVH=39.1089
p−value=0.0003
Intensity(%)
m/z
b2
y4++
y5++−H2O
y5++
y6++
y6++−H2O
y7++
y7++−H2O

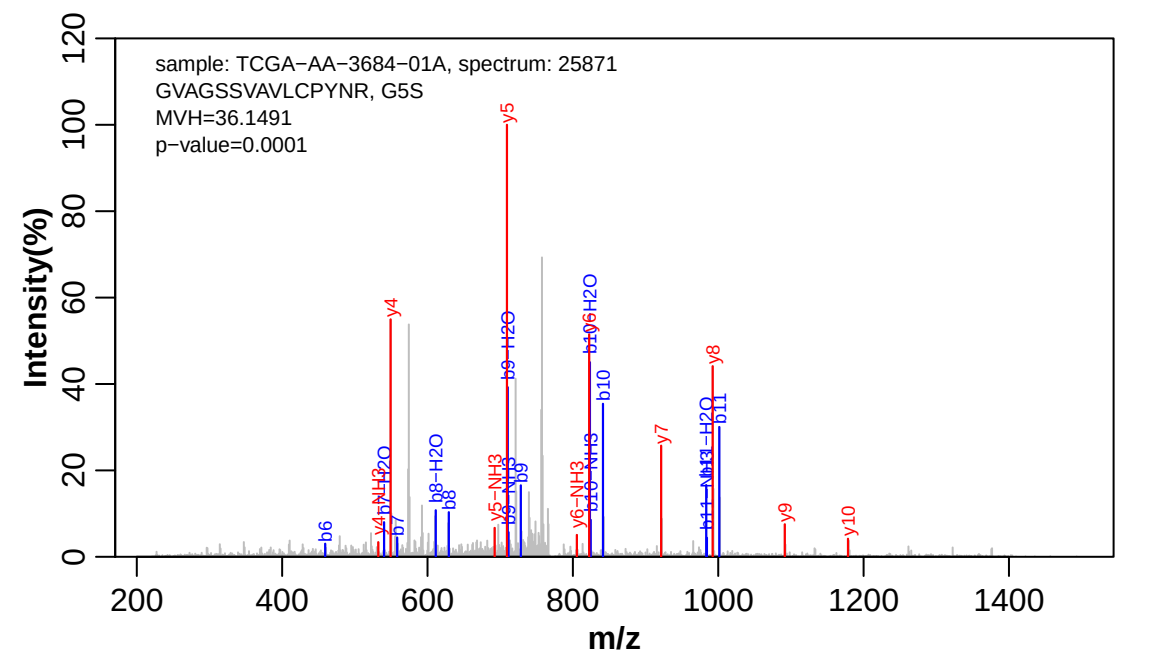

sample: TCGA−AA−3684−01A, spectrum: 71270
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=52.7659
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y6
b18++−H2O
b19++
b24++
b25++
b27++
b16−H2O
b17
b18
b19

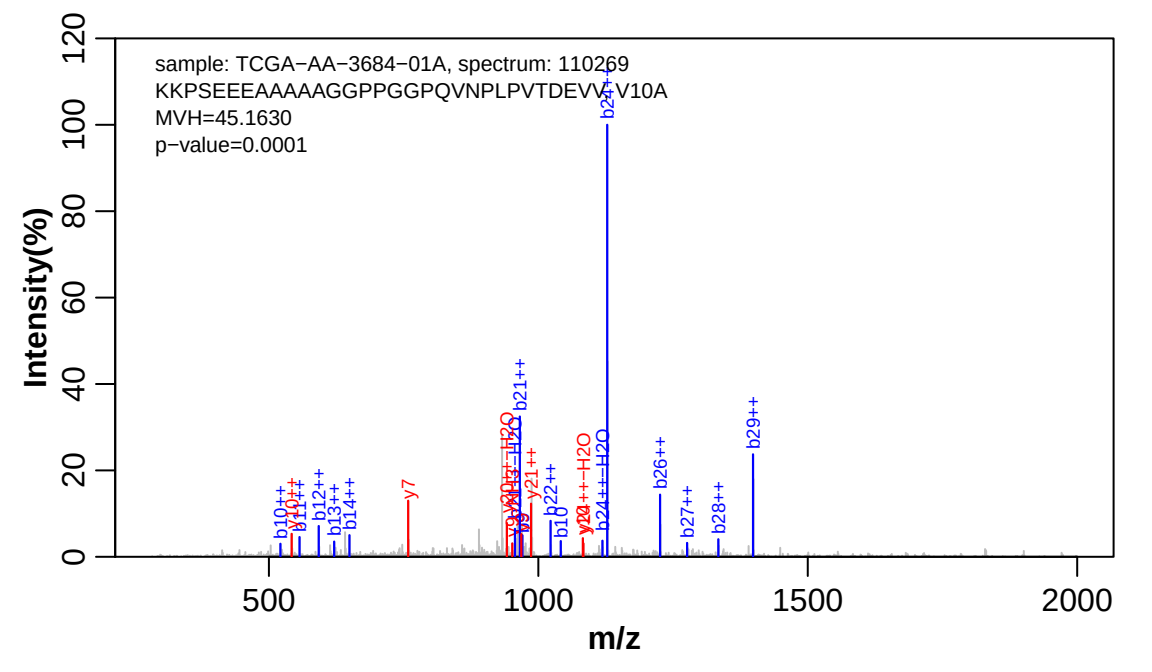

sample: TCGA−AA−3684−01A, spectrum: 89148
FYLGGPTSVR, I9V
MVH=41.1613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b4
b5
y5
y7
y8

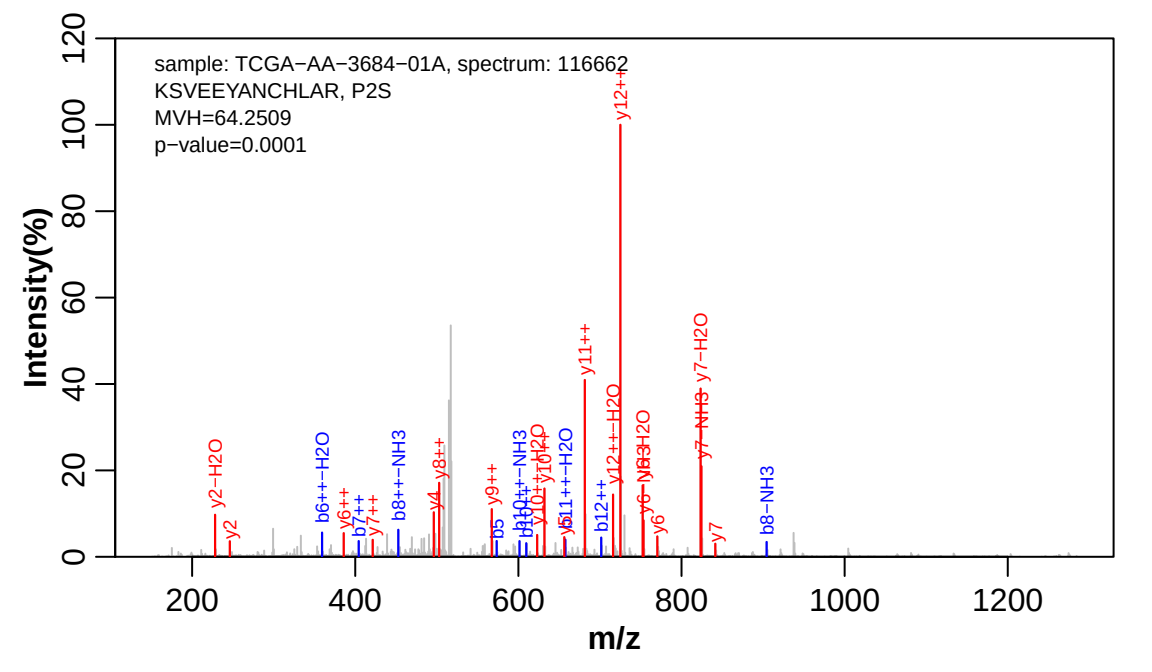

sample: TCGA−AA−3684−01A, spectrum: 6675
GFGTDEQALLDCLGSCSNK, R16C
MVH=55.8970
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y9++
y5++
y7++
b9
b10
y17++
b12
b13
y11

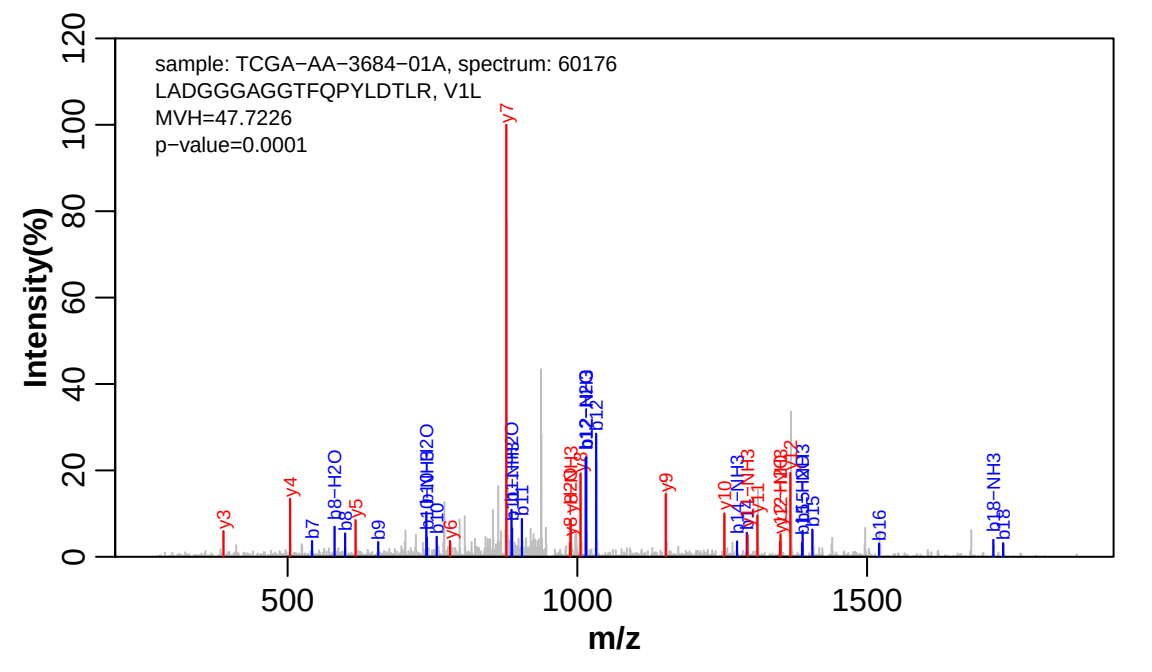

sample: TCGA−AA−3684−01A, spectrum: 151262
GGTLSTPQTGSENDALYEYLR, G5S
MVH=38.6522
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y5++
y3
y4−NH3
y4
b7
y10+−H2O
b15++−H2O
b15++−NH3
b15++
y5
b16++
y15++
y7++−H2O
y16++
y17++−H2O
b20++
y8
b15

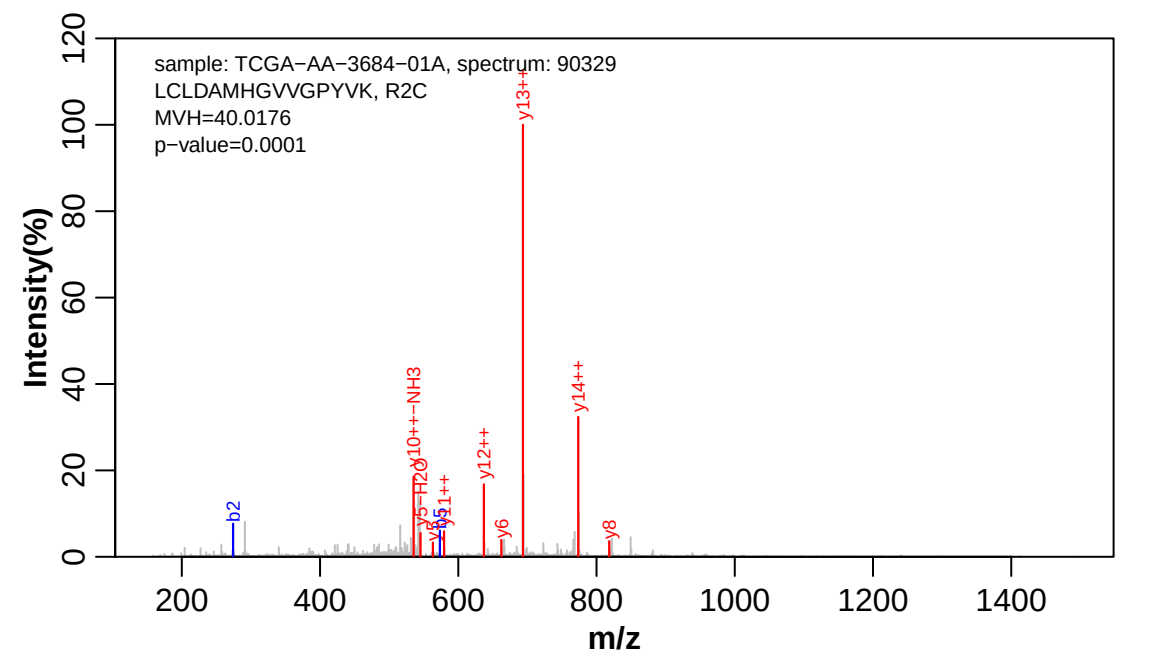

sample: TCGA−AA−3684−01A, spectrum: 49444
GQTGALLQNTVESLSK, D9N
MVH=66.0021
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y4
y5
y6
b5−H2O
b5
y5−H2O
y8−NH3

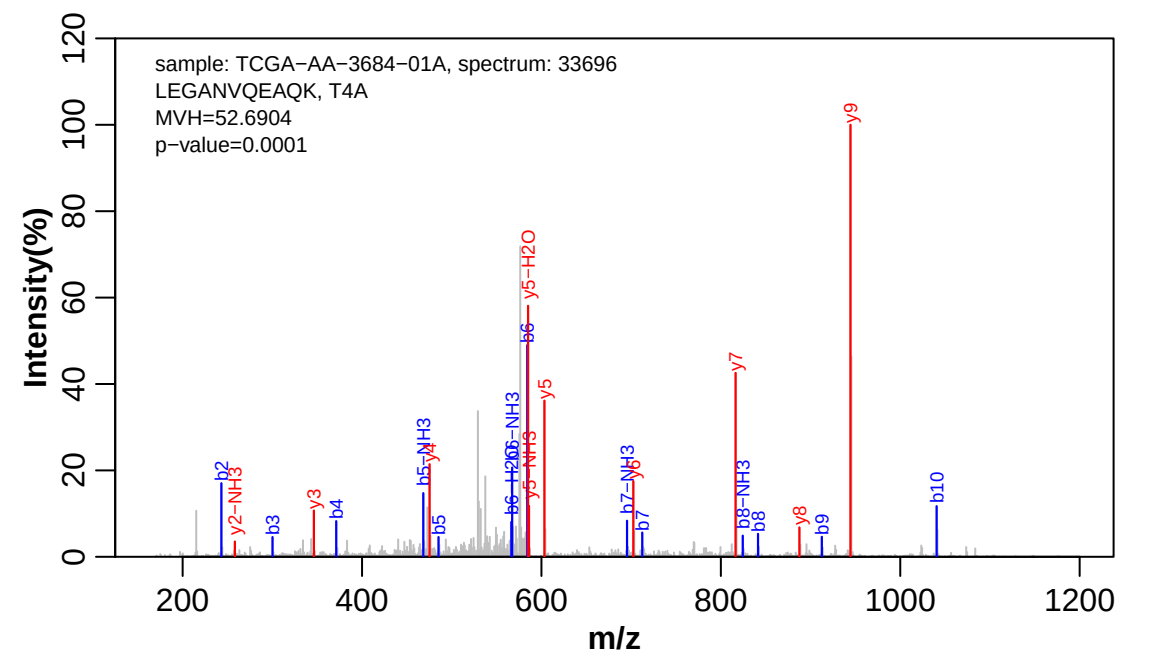

sample: TCGA−AA−3684−01A, spectrum: 25871
GVAGSSVAVLCPYNR, G5S
MVH=36.1491
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3
b11−H2O
y9
y10
b6
y6
y6−H2O
b7

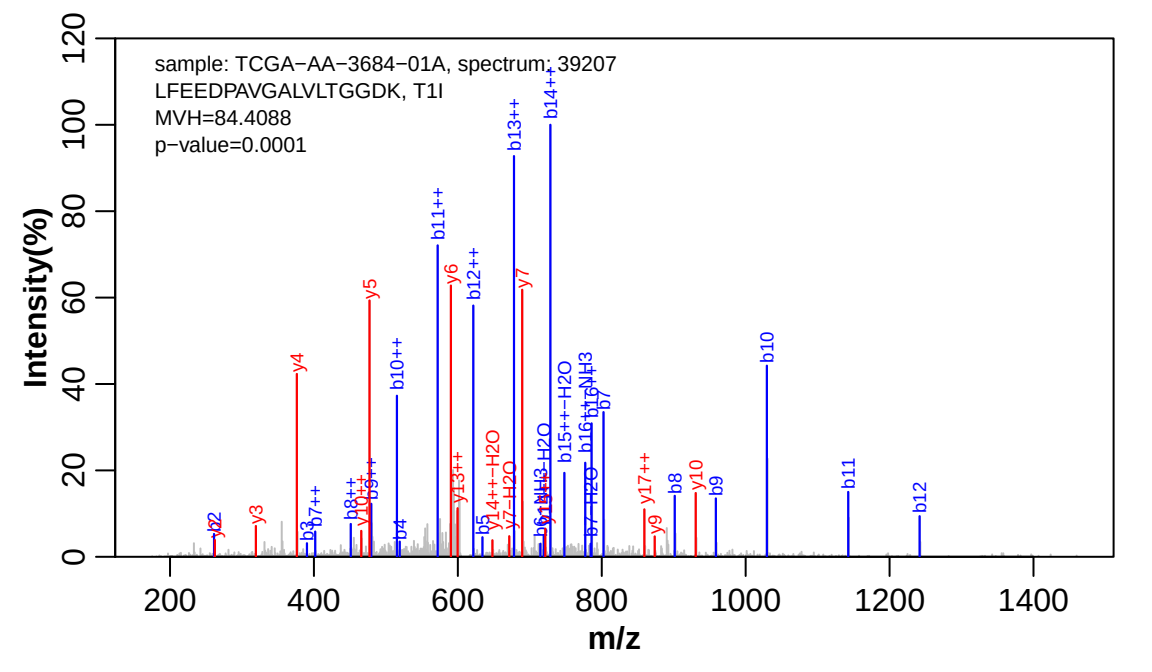

sample: TCGA−AA−3684−01A, spectrum: 110269
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=45.1630
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b29++
b26++
b22++
b24++−H2O
y21++
y7
b10++
b11++
b12++
b13++
b14++
b27++
b28++

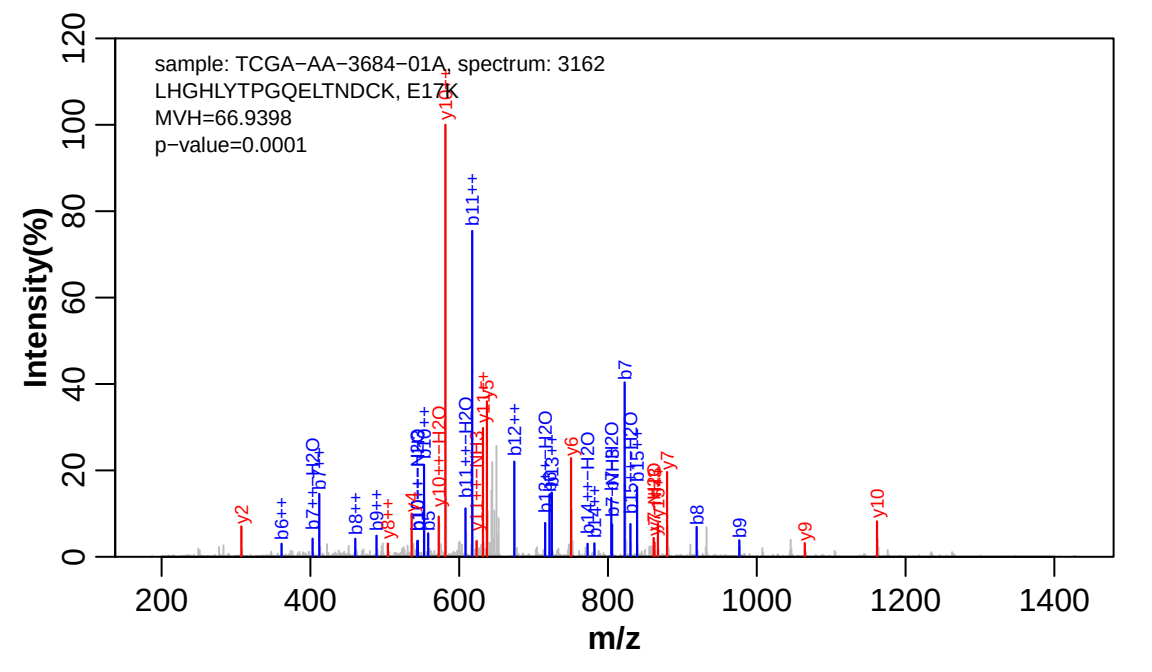

sample: TCGA−AA−3684−01A, spectrum: 116662
KSVEEYANCHLAR, P2S
MVH=64.2509
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y2−H2O
y2
b6++−H2O
y6++
b7++
y7++
b8++−NH3
y4
y8++
y9++
b5
y11++
y12++−H2O
b12++
y7−NH3
y7−H2O
y6
y7
b8−NH3

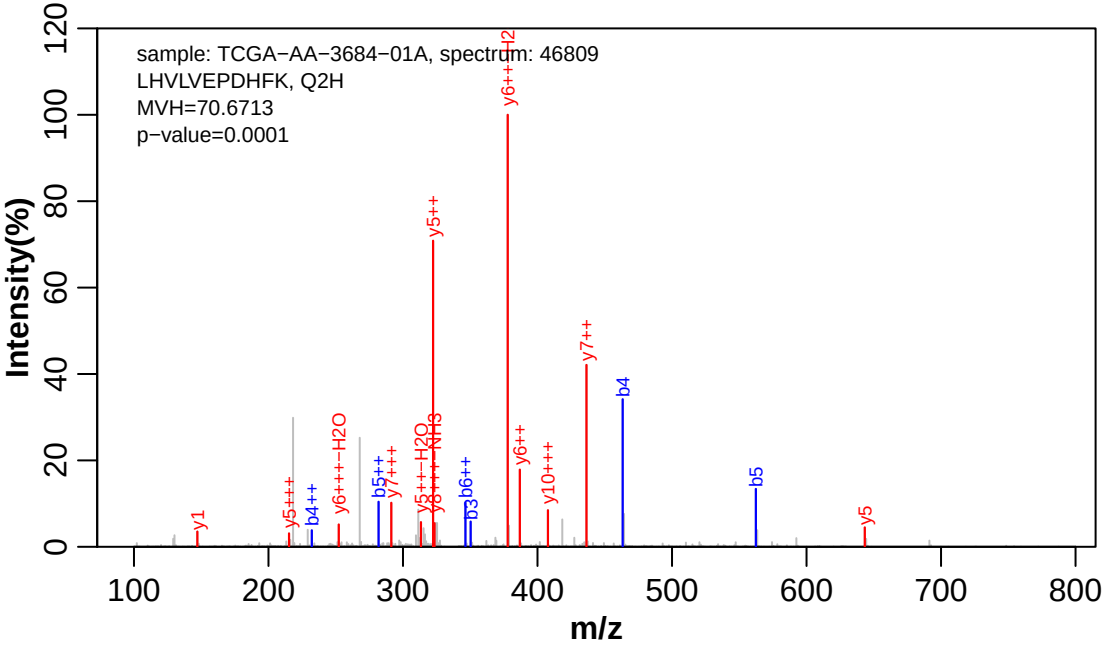

sample: TCGA−AA−3684−01A, spectrum: 60176
LADGGGAGGTFQPYLDTLR, V1L
MVH=47.7226
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y4
y3
b7
b8−H2O
b8
y5
b9
y6
y9
y10
b16
b18−NH3

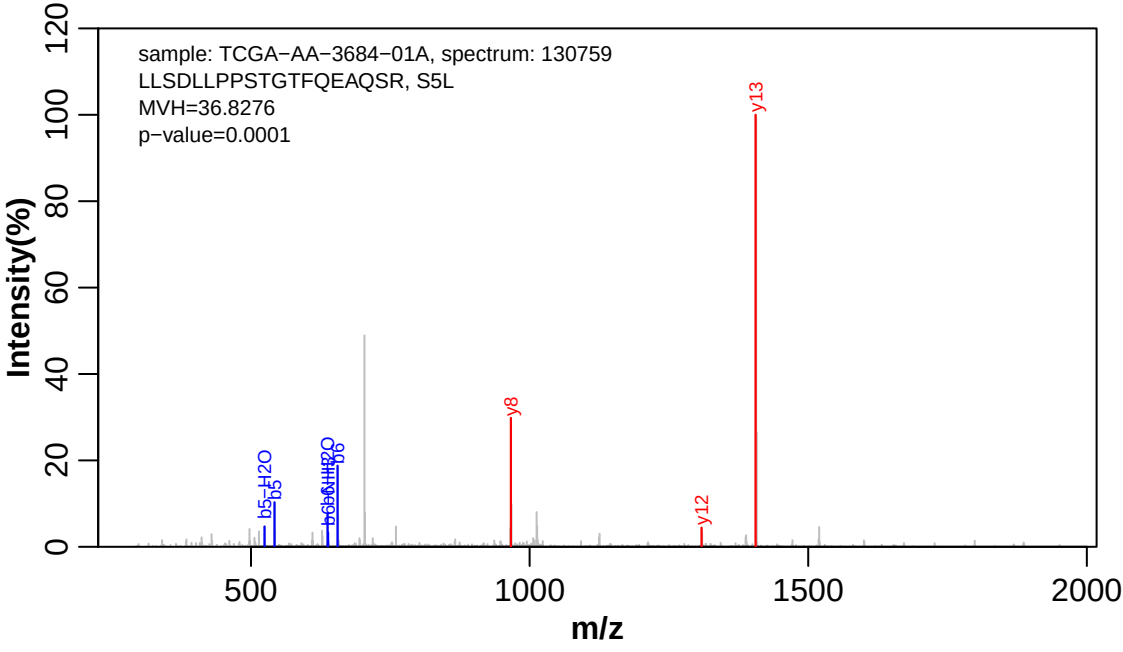

sample: TCGA−AA−3684−01A, spectrum: 90329
LCLDAMHGVVGPYVK, R2C
MVH=40.0176
p−value=0.0001
Intensity(%)
m/z
b2
y5−H2O
y10++−NH3
y5
y11++
y12++
y6
y13++
y14++
y8

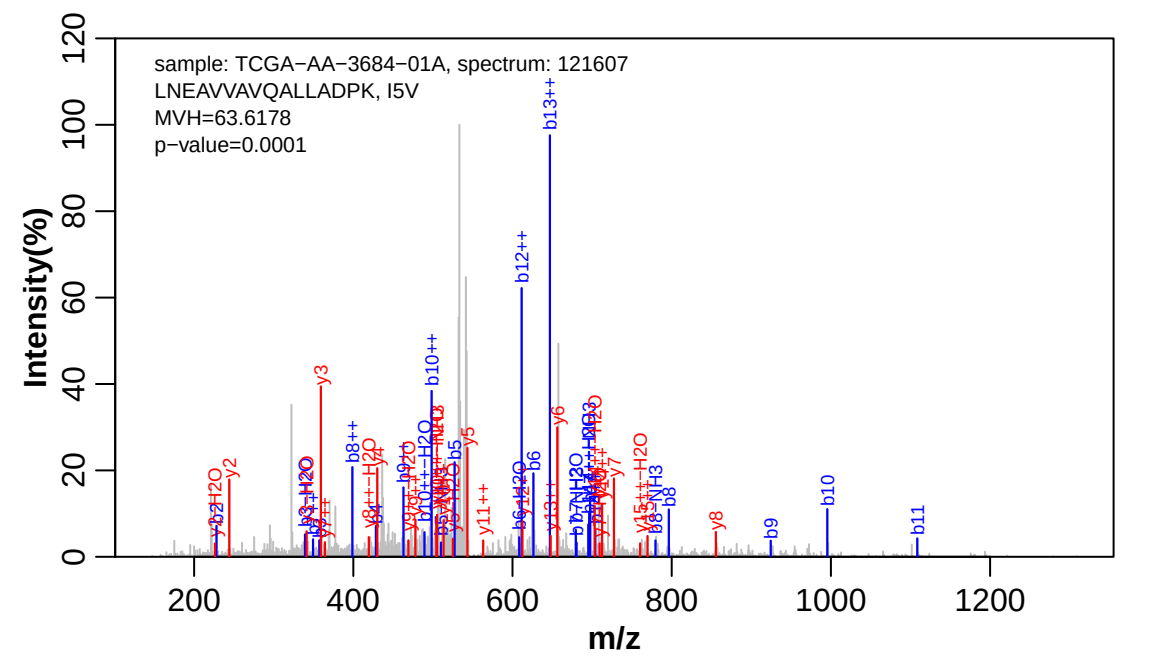

sample: TCGA−AA−3684−01A, spectrum: 33696
LEGANVQEAQK, T4A
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
b3
y3
b4
b5−NH3
y4
b5
b6−H2O
b6−NH3
y5−H2O
b6
y5−NH3
y5
b7−NH3
y6
b7
y7
b8−NH3
b8
y8
b9
y9
b10

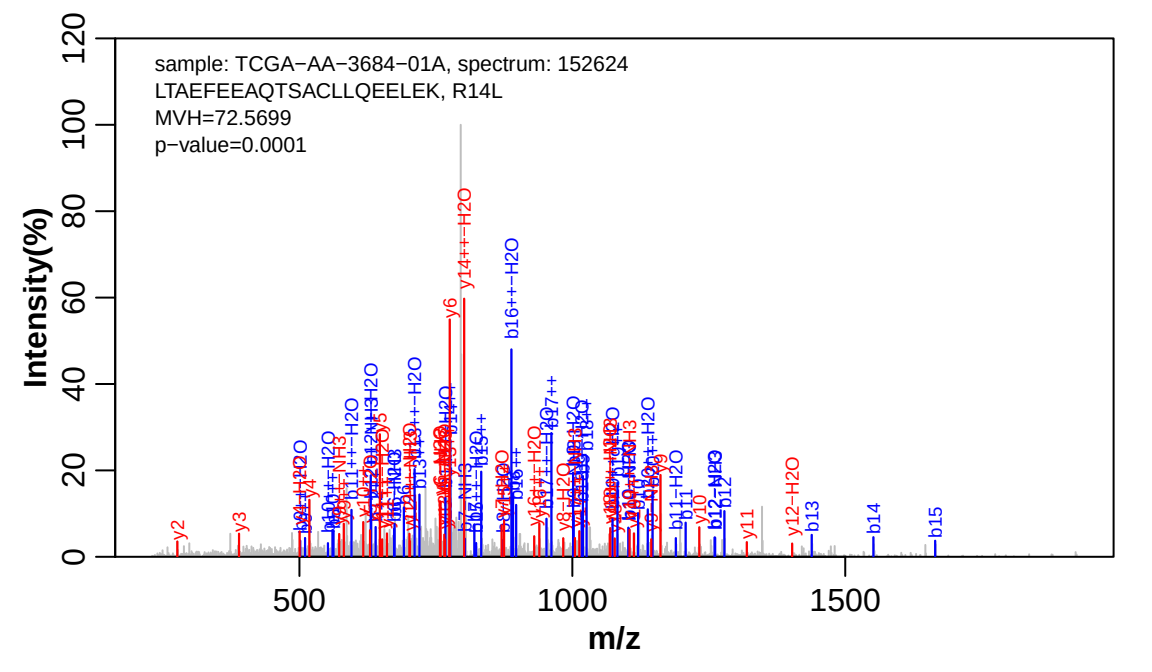

sample: TCGA−AA−3684−01A, spectrum: 39207
LFEEDPAVGALVLTGGDK, T1I
MVH=84.4088
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y6
y7
b10++
b11++
b12++
b13++
b14++
b10
b11
b12
y17++
y10
b9
b8
y9
y2
y3
b3
b7++
b4
b5
y13++
y14++−H2O
y7−H2O
b15++−H2O
b7
y8++
b3++

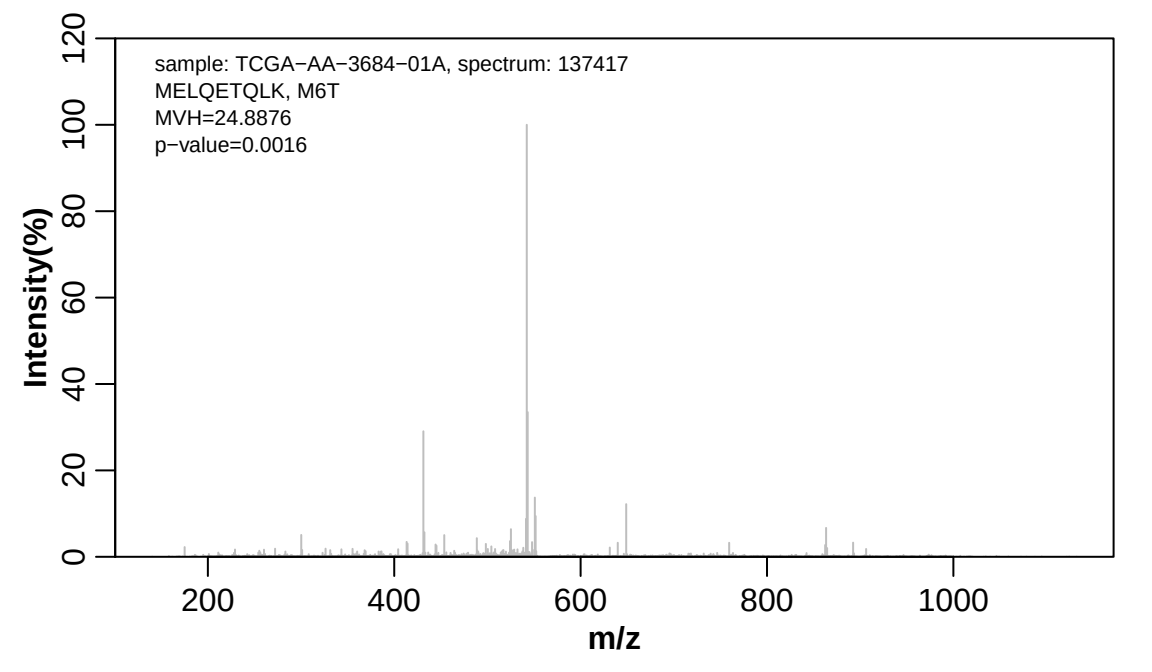

sample: TCGA−AA−3684−01A, spectrum: 3162
LHGHLYTPGQELTNDCK, E17K
MVH=66.9398
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10++
b11++
y2
b6++
b8++
b9++
y8++
b12++
y6
y10
y9
b8
b9
b7

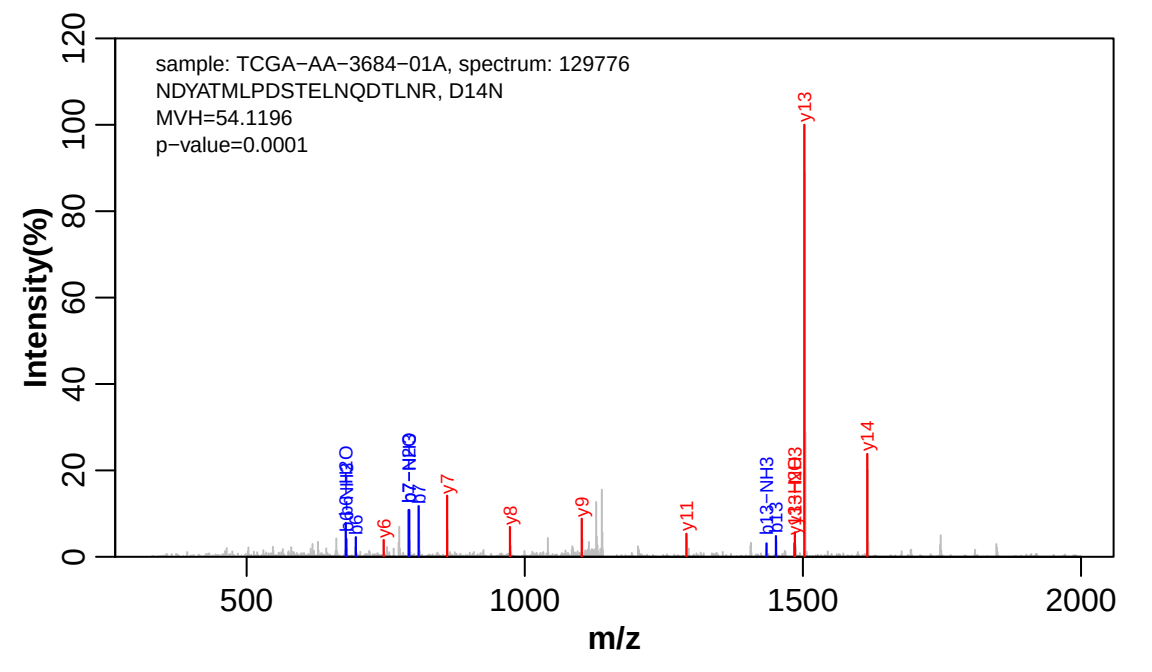

sample: TCGA−AA−3684−01A, spectrum: 46809
LHVLVEPDHFK, Q2H
MVH=70.6713
p−value=0.0001
Intensity(%)
m/z
y6++−H2
y5++
y6++
b4
y7++
y6+++−H2O
y5+++−H2O
y5+++−NH3
b5++
y7+++
b6++
y10+++
b3
b5
y5
y1
y5+++
b4++

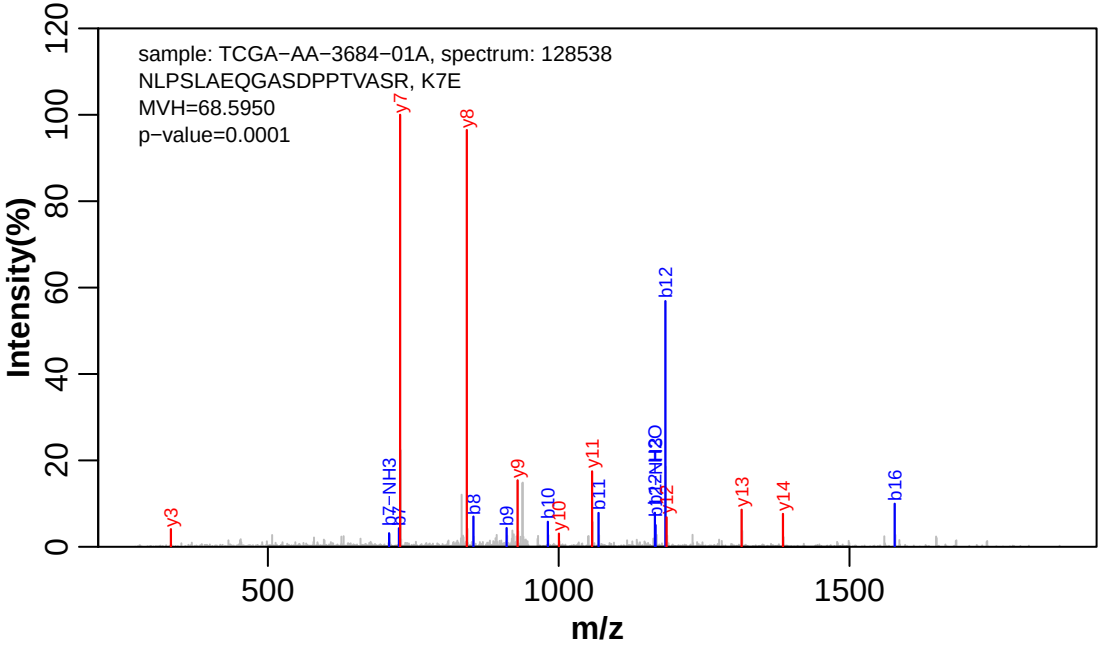

sample: TCGA−AA−3684−01A, spectrum: 130759
LLSDLLPPSTGTFQEAQSR, S5L
MVH=36.8276
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y13
y8
y12
b5−H2O
b5
b6

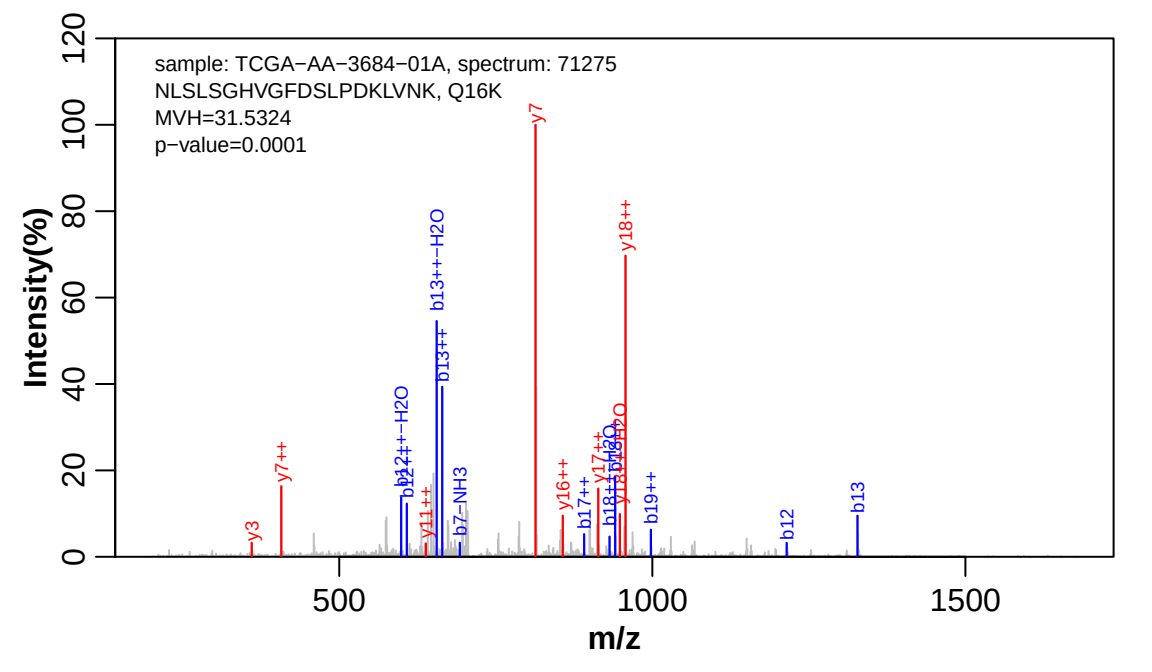

sample: TCGA−AA−3684−01A, spectrum: 121607
LNEAVVAVQALLADPK, I5V
MVH=63.6178
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b13++
b12++
b10++
y6
y5
y3
y2
b8++
b6
b10
b9
b11
y8
y11++

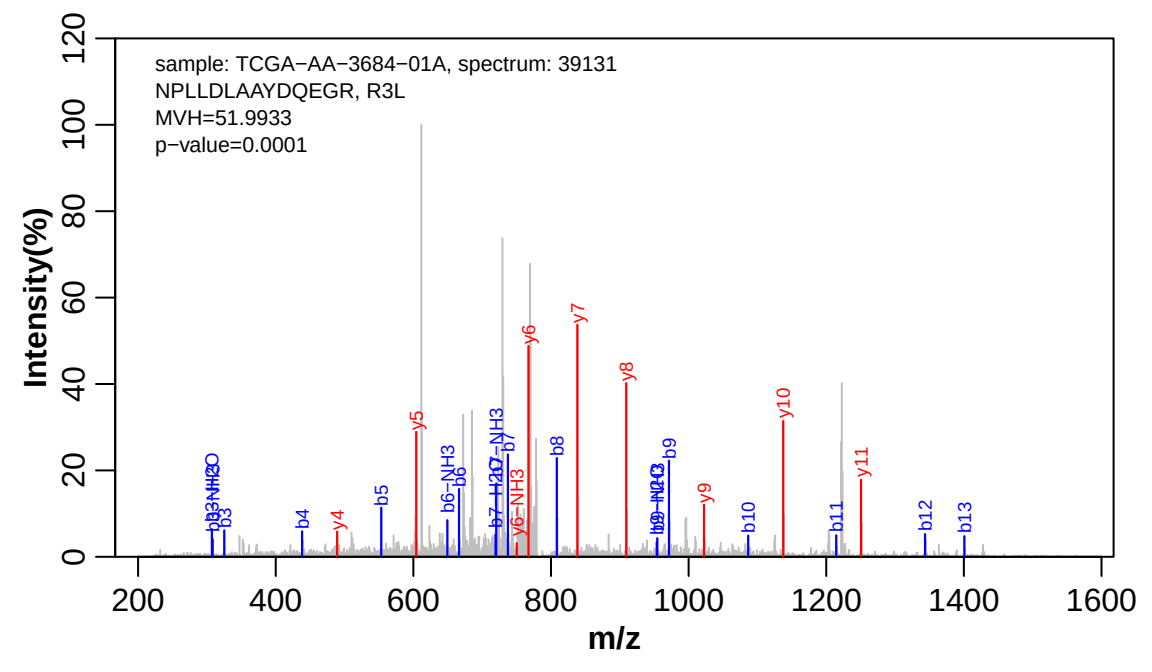

sample: TCGA−AA−3684−01A, spectrum: 152624
LTAEFEEAQTSACLLQEELEK, R14L
MVH=72.5699
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y6
y14++−H2O
b16++−H2O
y12−H2O
b13
b14
b15
y11

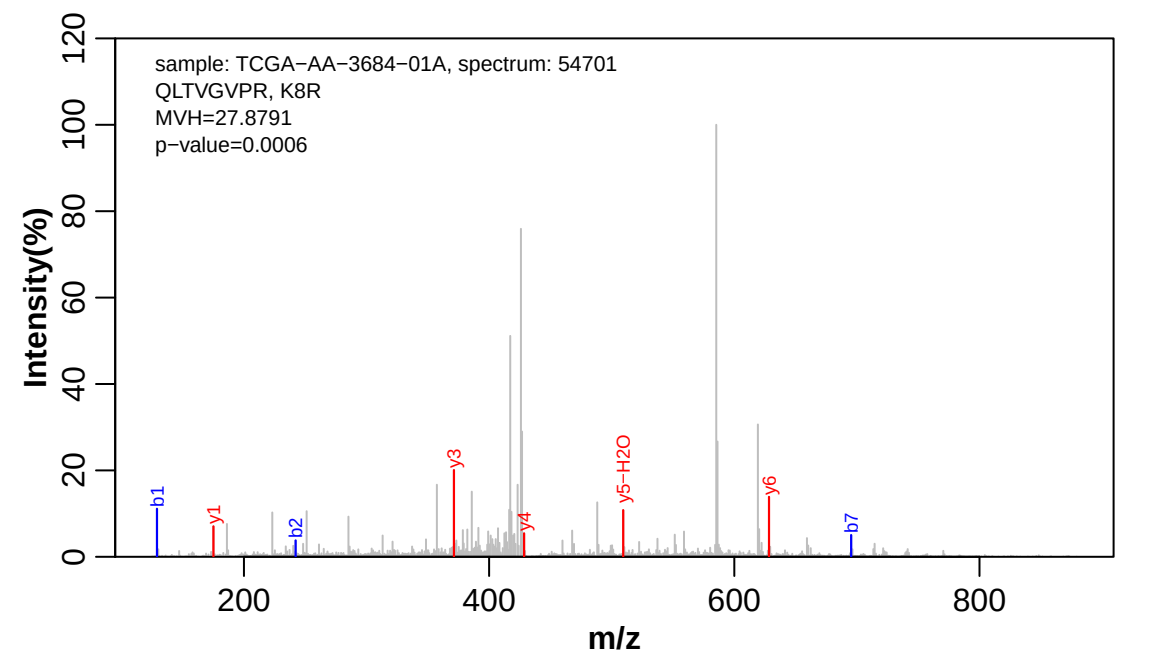

sample: TCGA−AA−3684−01A, spectrum: 137417
MELQETQLK, M6T
MVH=24.8876
p−value=0.0016
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

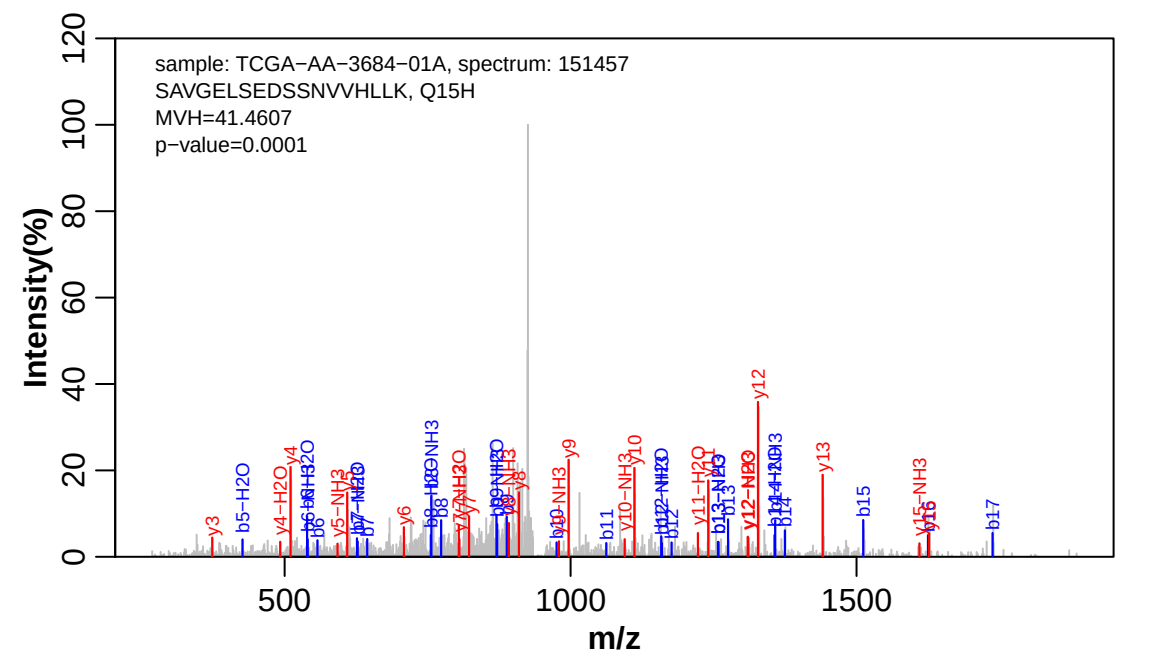

sample: TCGA−AA−3684−01A, spectrum: 129776
NDYATMLPDSTELNQDTLNR, D14N
MVH=54.1196
p−value=0.0001
Intensity(%)
m/z
y13
y14
y6
y7
y8
y9
y11
b13−NH3

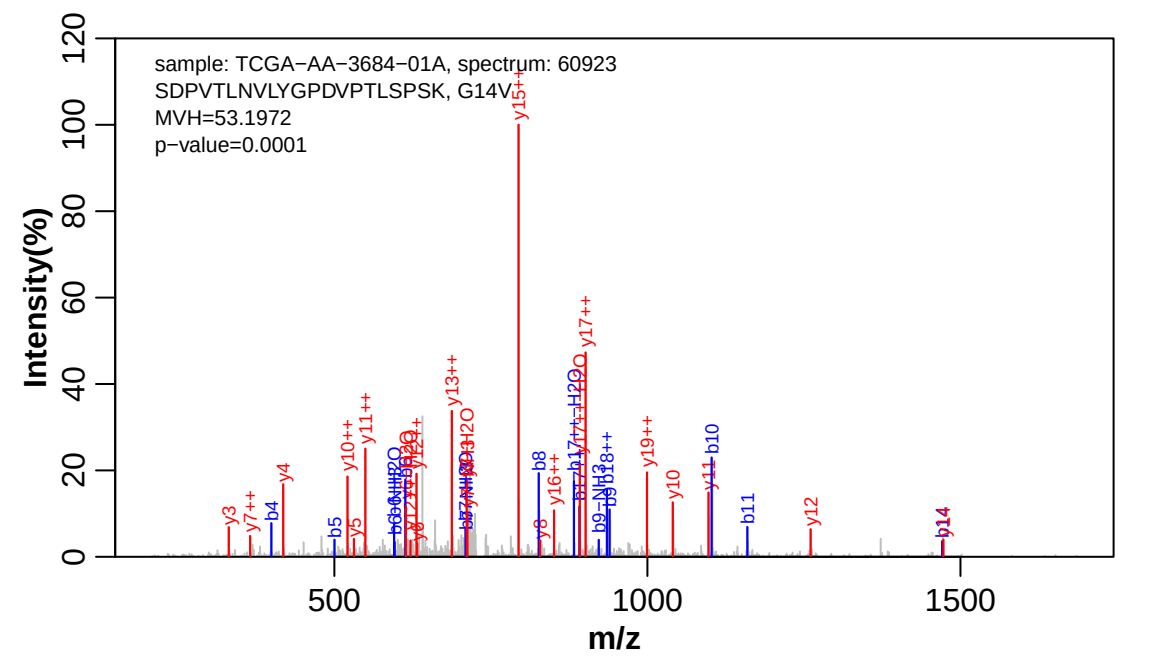

sample: TCGA−AA−3684−01A, spectrum: 128538
NLPSLAEQGASDPPTVASR, K7E
MVH=68.5950
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b7−NH3
b7
y7
b8
y8
b9
y9
b10
y10
y11
b11
b12−NH3
b12−H2O
b12
y12
y13
y14
b16

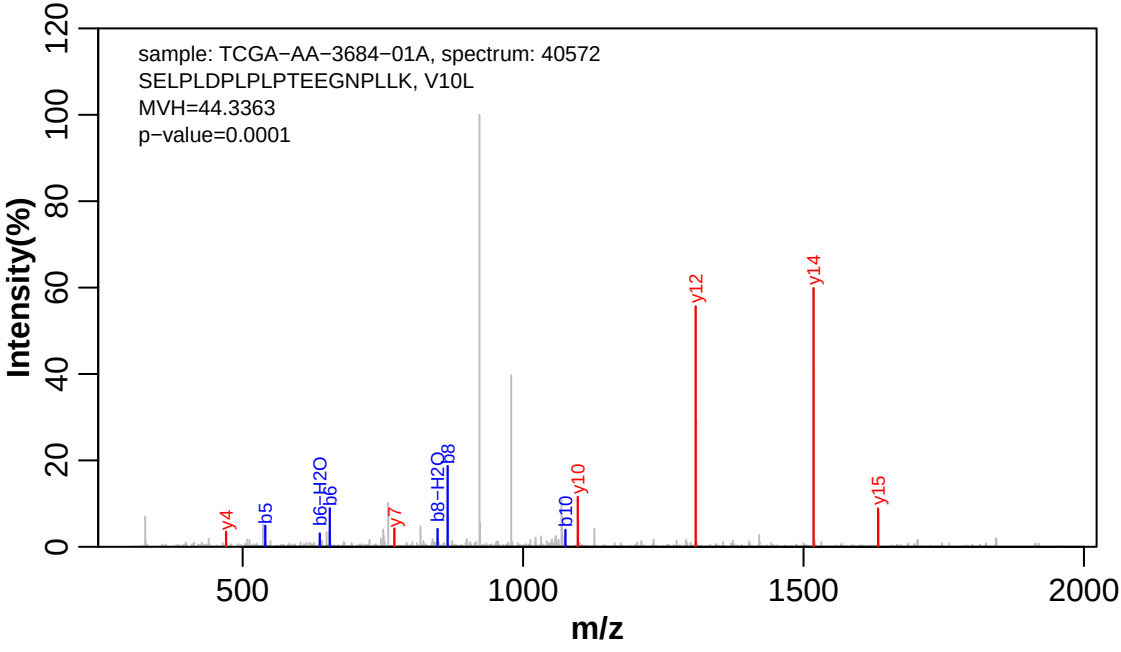

sample: TCGA−AA−3684−01A, spectrum: 71275
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=31.5324
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y18++
b13++−H2O
b13++
y7++
y3
b12++−H2O
b12++
y11++
b7−NH3
y16++
b17++
y17++
b19++
b12
b13

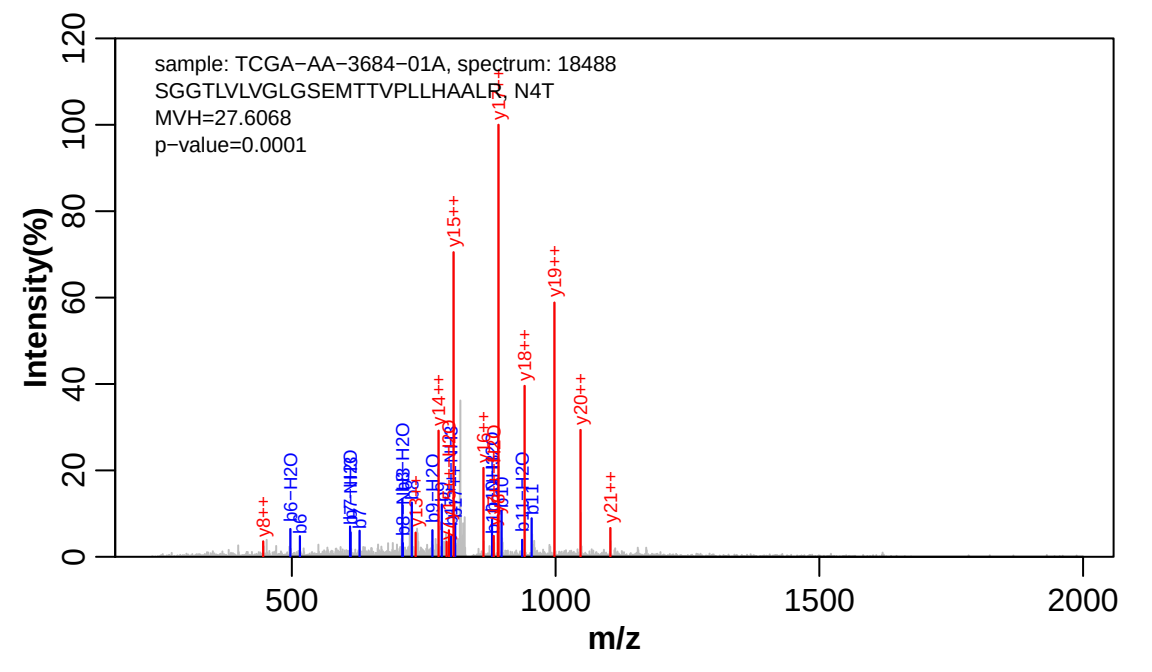

sample: TCGA−AA−3684−01A, spectrum: 39131
NPLLDLAAYDQEGR, R3L
MVH=51.9933
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4
y4
b5
y5
b6−NH3
b6
b7
y6−NH3
y6
y7
b8
y8
b9
y9
y10
b10
y11
b11
b12
b13

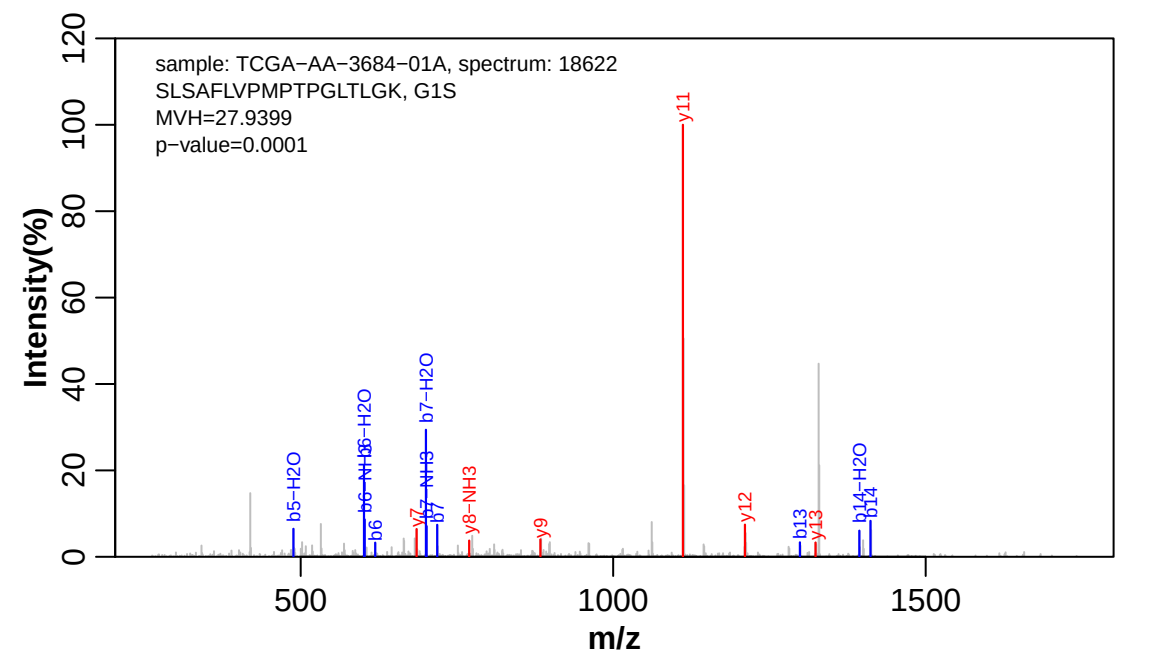

sample: TCGA−AA−3684−01A, spectrum: 54701
QLTVGVPR, K8R
MVH=27.8791
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1
b2
y3
y4
y5−H2O
y6
b7

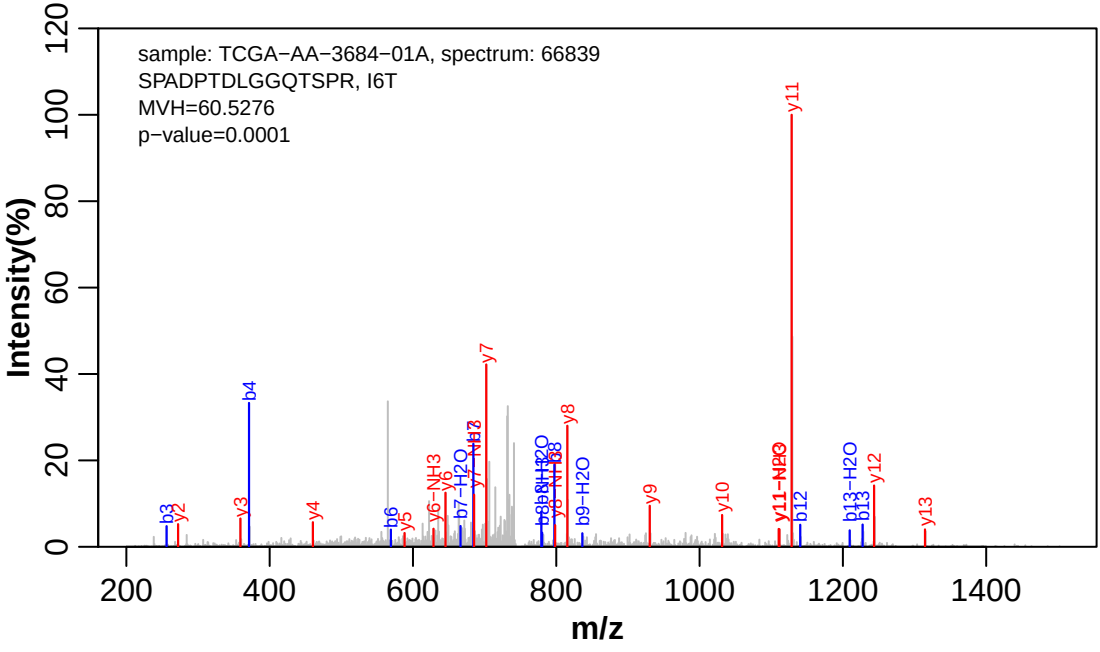

sample: TCGA−AA−3684−01A, spectrum: 151457
SAVGELSEDSSNVVHLLK, Q15H
MVH=41.4607
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5−H2O
y4−H2O
y4
y5−NH3
y6
y9
b10−NH3
y10
b11
y10−NH3
y11−H2O
y12
y13
b15
y15−NH3
b17

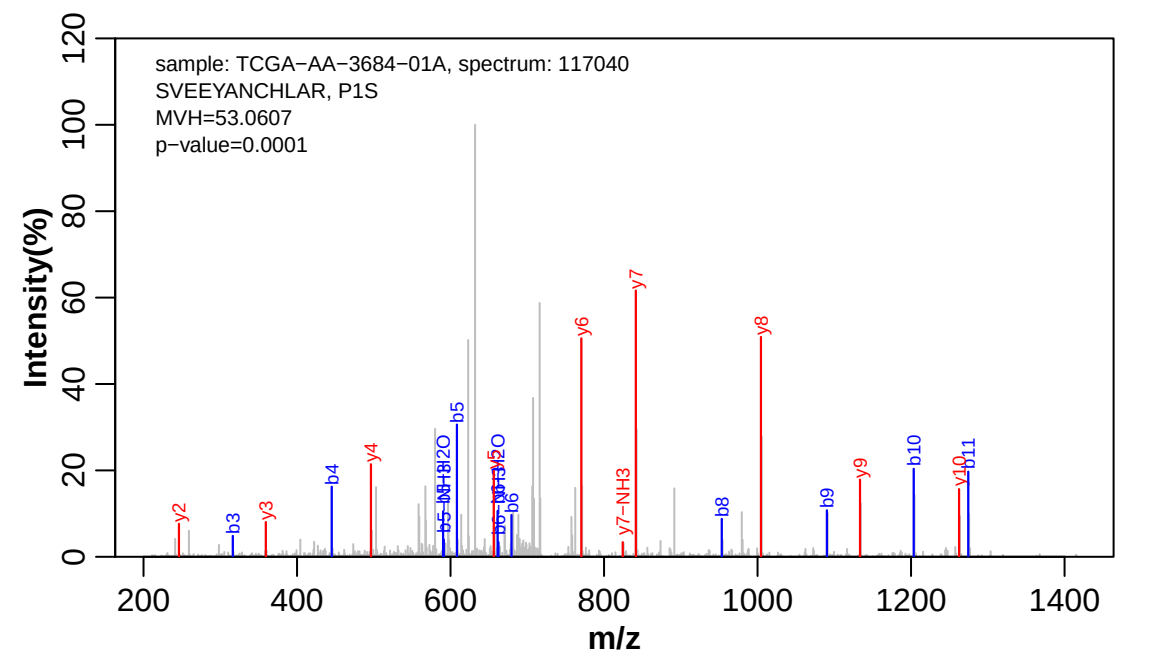

sample: TCGA−AA−3684−01A, spectrum: 60923
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=53.1972
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y17++
y13++
y11++
y10++
y19++
y10
y12
y14
b10
b11
b8
y16++
y4
y7++
y3
b4
b5
y5
y8
b9−NH3

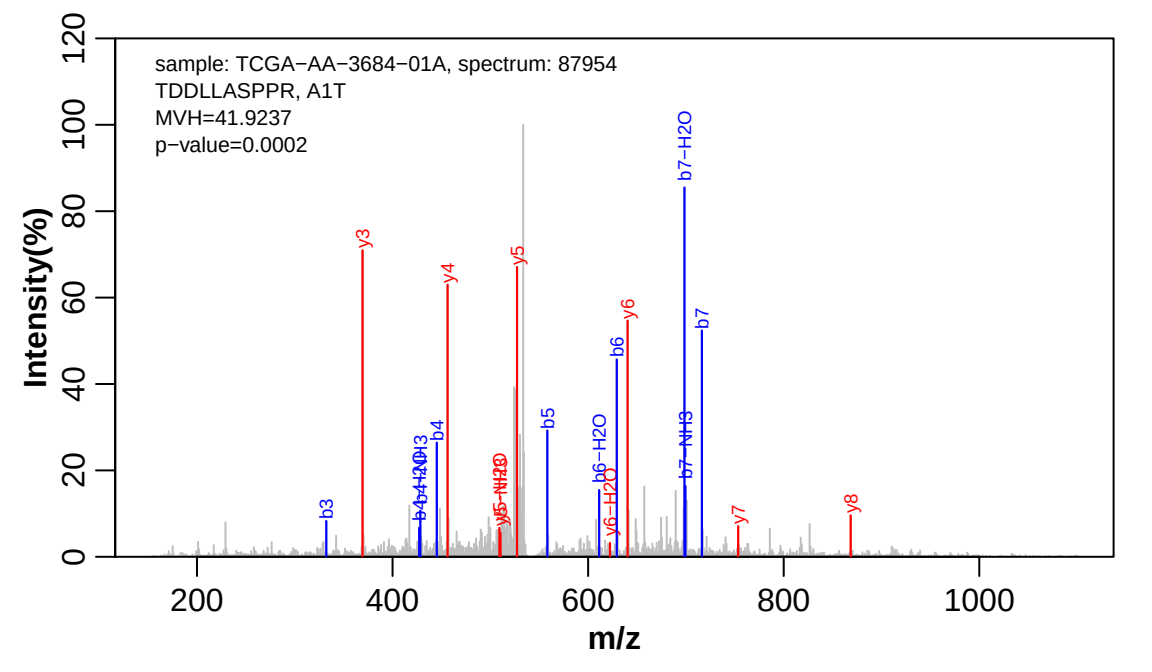

sample: TCGA−AA−3684−01A, spectrum: 40572
SELPLDPLPLPTEEGNPLLK, V10L
MVH=44.3363
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−H2O
b6
y7
b8−H2O
b8
b10
y10
y12
y14
y15

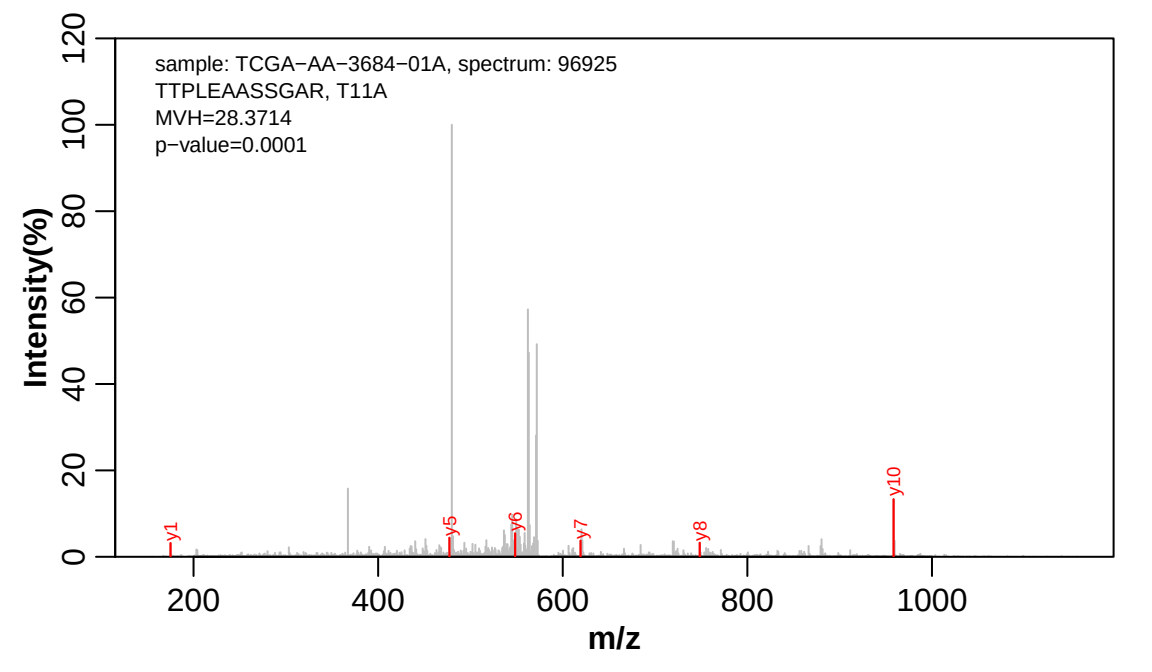

sample: TCGA−AA−3684−01A, spectrum: 18488
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=27.6068
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8++
b6−H2O
b6
y17++
y15++
y19++
y18++
y20++
y21++
y14++

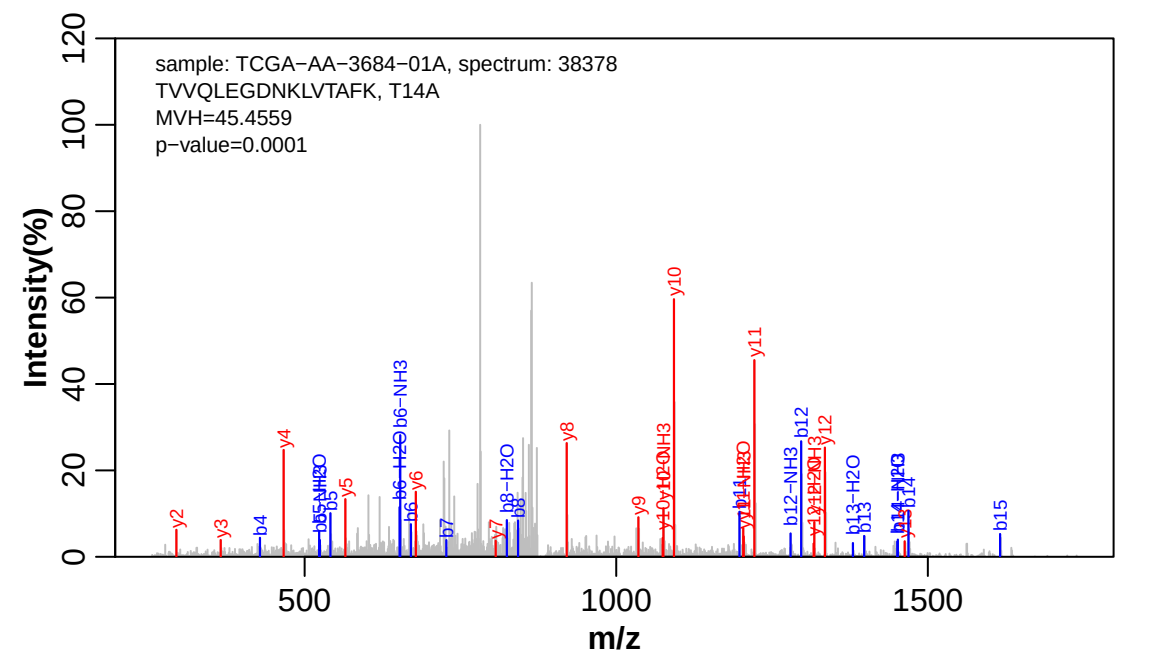

sample: TCGA−AA−3684−01A, spectrum: 18622
SLSAFLVPMPTPGLTLGK, G1S
MVH=27.9399
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
b5−H2O
b6−NH3
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y8−NH3
y9
y12
b13
y13
b14−H2O
b14

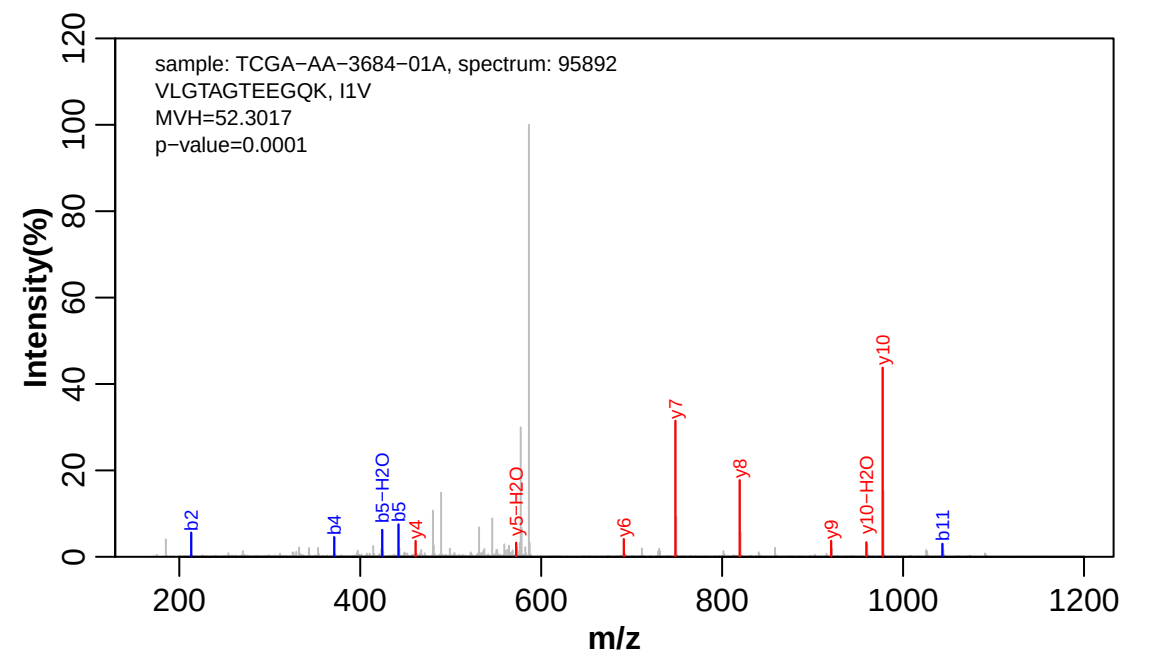

sample: TCGA−AA−3684−01A, spectrum: 66839
SPADPTDLGGQTSPR, I6T
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6−NH3
y6
b7−H2O
y7−NH3
y7
y8
b9−H2O
y9
y10
y11−NH3
y11−H2O
y11
b12
b13−H2O
b13
y12
y13

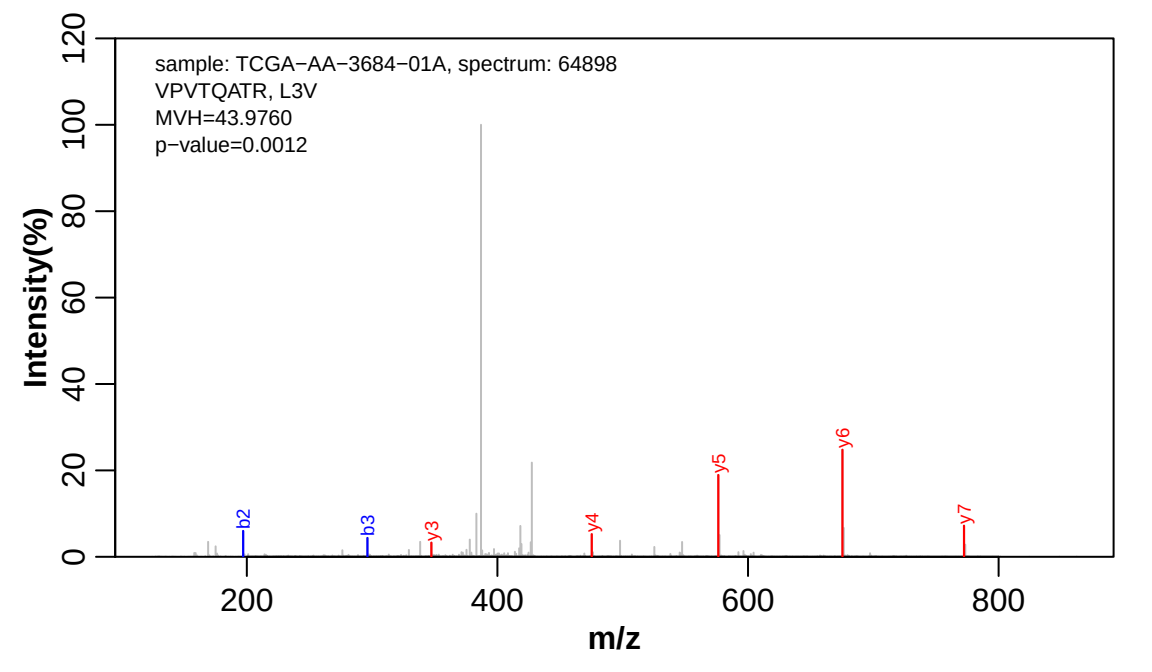

sample: TCGA−AA−3684−01A, spectrum: 117040
SVEEYANCHLAR, P1S
MVH=53.0607
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5
b5−NH3
b5−H2O
b6
b6−NH3
b6−H2O
y5
y6
y7
y7−NH3
b8
y8
b9
y9
b10
y10
b11

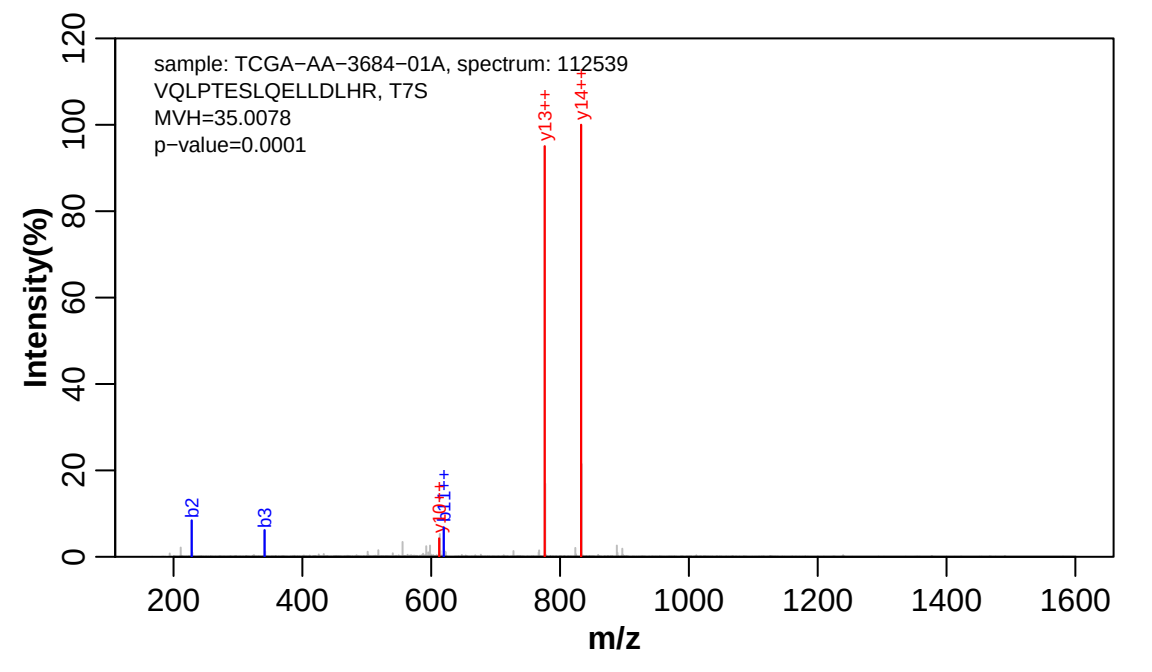

sample: TCGA−AA−3684−01A, spectrum: 87954
TDDLLASPPR, A1T
MVH=41.9237
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3
y3
b4
y4
y5
b5
b6
y6
b6−H2O
y6−H2O
b7−H2O
b7−NH3
b7
y7
y8

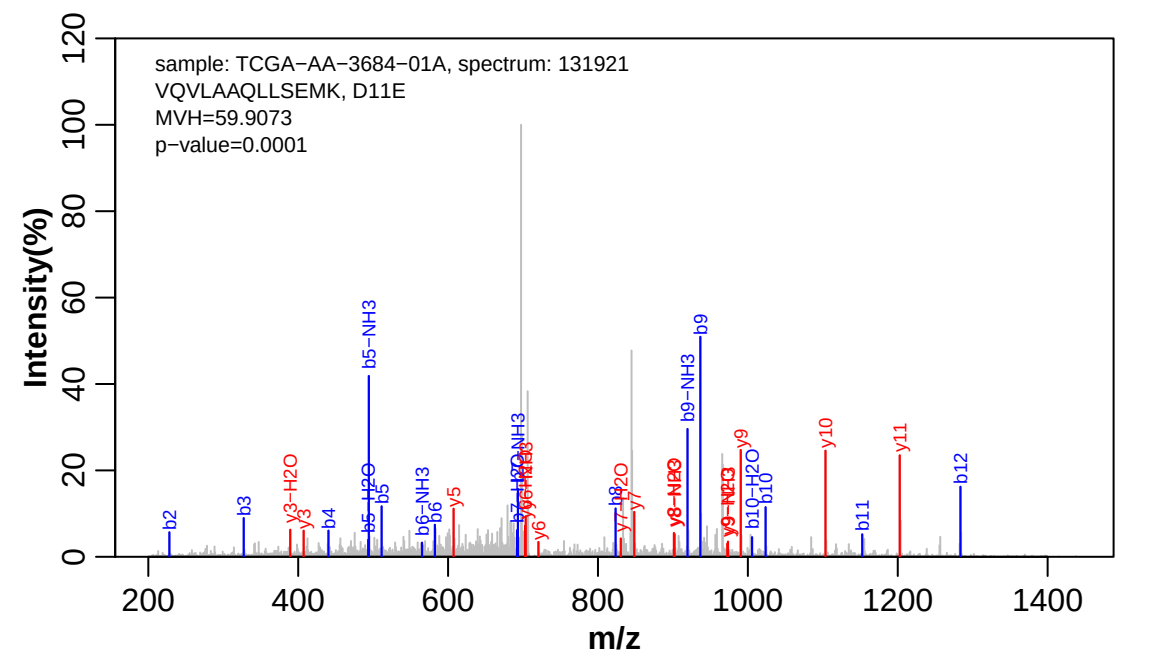

sample: TCGA−AA−3684−01A, spectrum: 96925
TTPLEAASSGAR, T11A
MVH=28.3714
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
y5
y6
y7
y8
y10

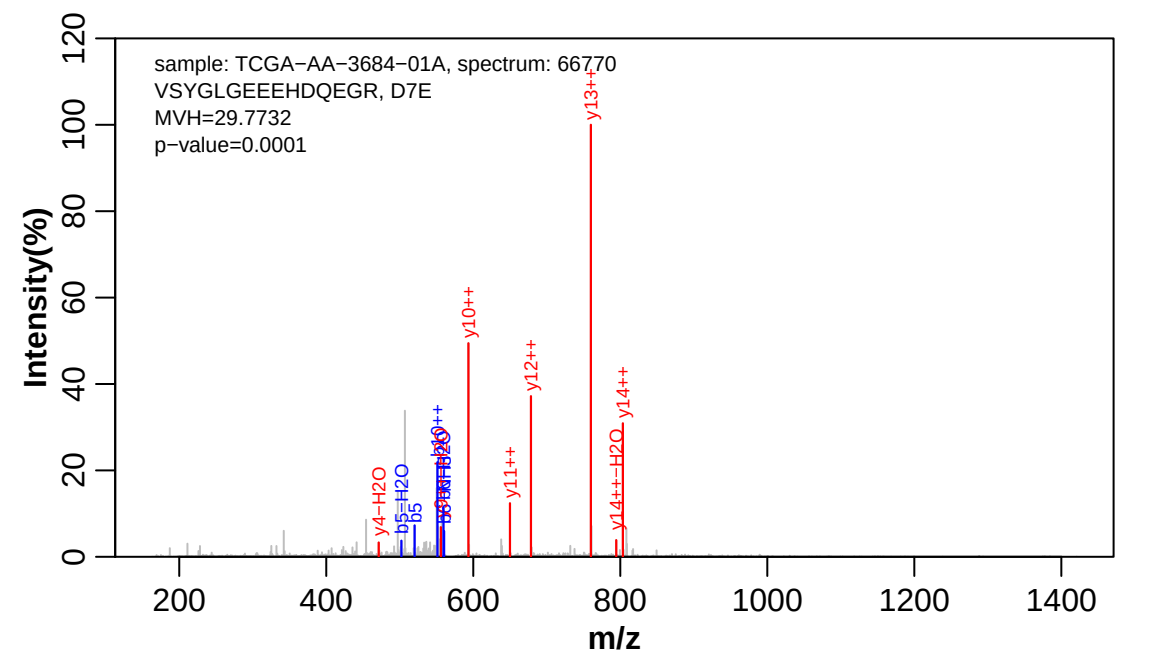

sample: TCGA−AA−3684−01A, spectrum: 38378
TVVQLEGDNKLVTAFK, T14A
MVH=45.4559
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7
y7
b8−H2O
b8
y8
y9
y10
y10−NH3
y10−H2O
y11
b11−NH3
b11−H2O
b12−NH3
b12
y12
y12−NH3
y12−H2O
b13−H2O
b13
b14−NH3
b14−H2O
b14
b15

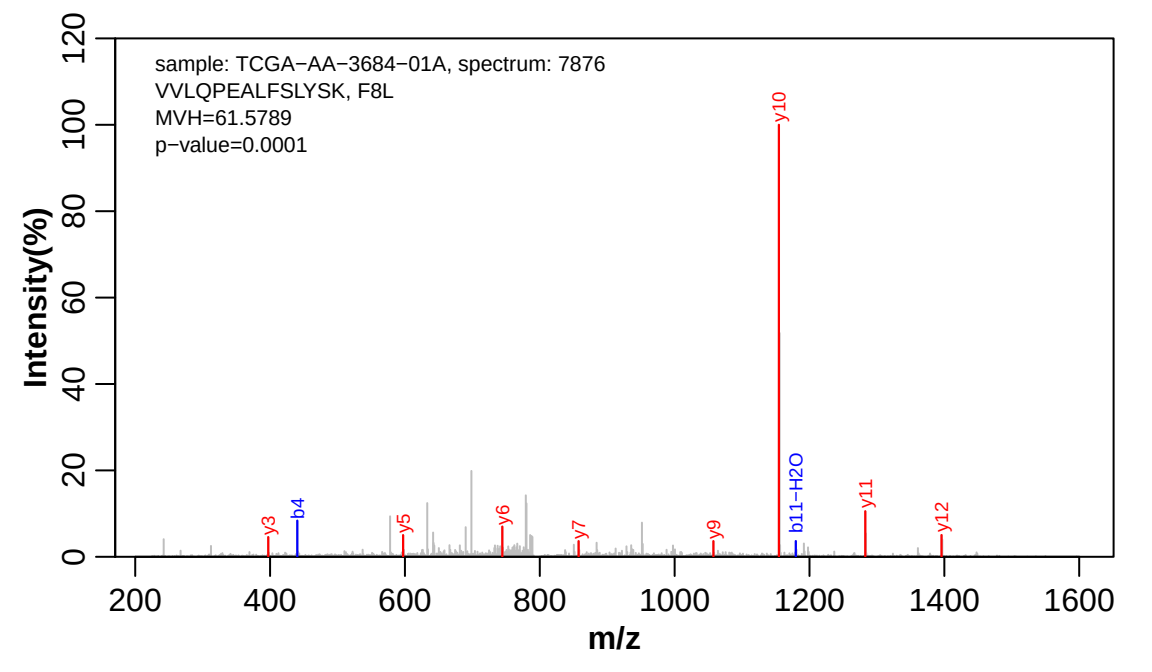

sample: TCGA−AA−3684−01A, spectrum: 95892
VLGTAGTEEGQK, I1V
MVH=52.3017
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4
b5−H2O
b5
y4
y5−H2O
y6
y7
y8
y9
y10−H2O
y10
b11

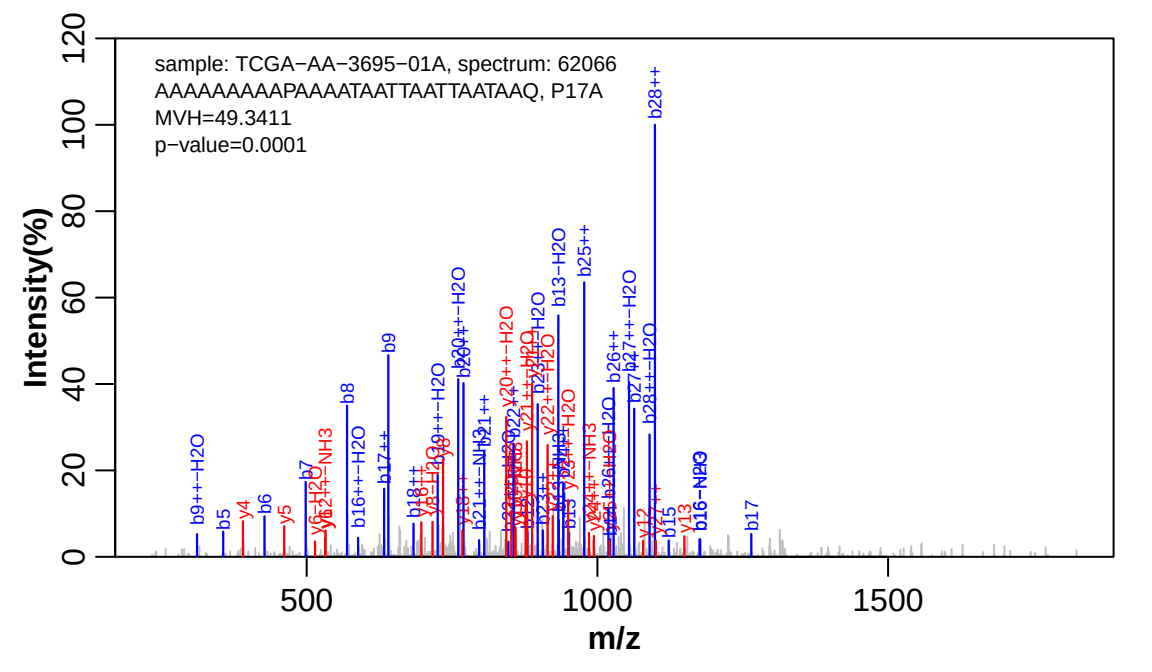

sample: TCGA−AA−3684−01A, spectrum: 64898
VPVTQATR, L3V
MVH=43.9760
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

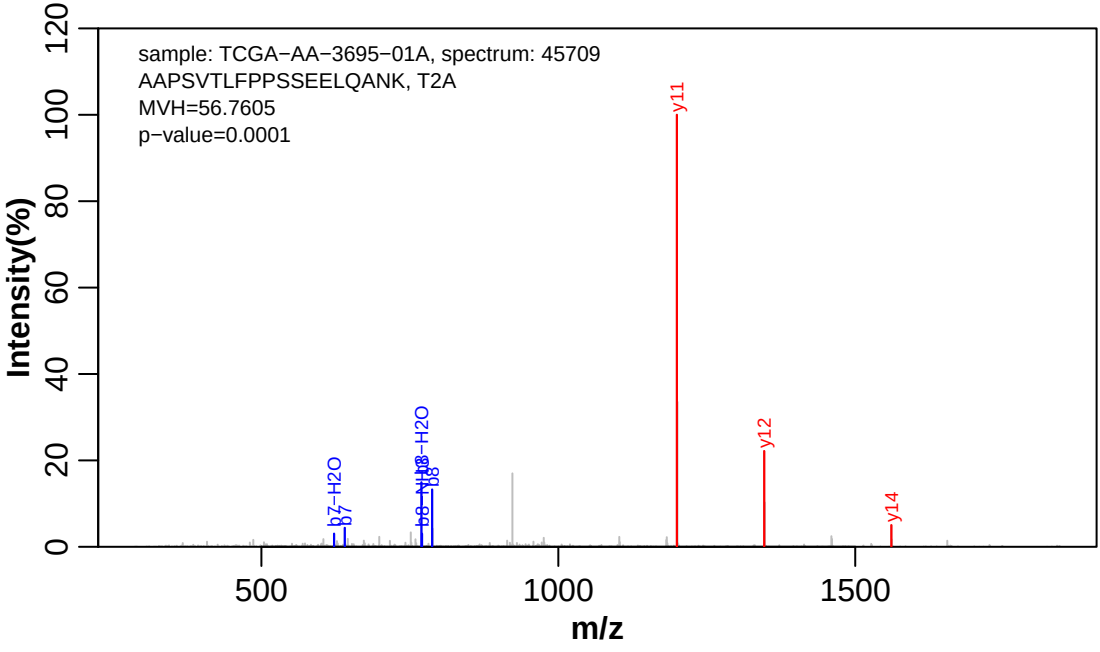

sample: TCGA−AA−3684−01A, spectrum: 112539
VQLPTESLQELLDLHR, T7S
MVH=35.0078
p−value=0.0001
y13++
y14++
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

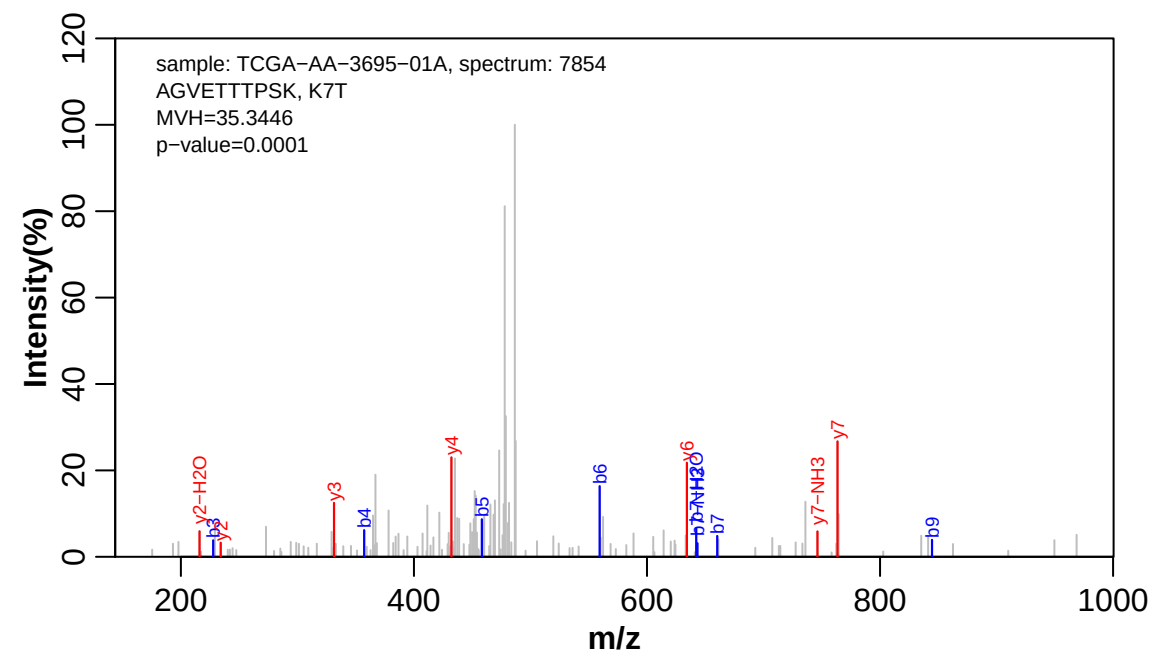

sample: TCGA−AA−3684−01A, spectrum: 131921
VQVLAAQLLSEMK, D11E
MVH=59.9073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y3−H2O
y3
b4
b5−NH3
b5−H2O
b5
b6−NH3
b6
y5
b7−H2O−NH3
y6
y7
b8
y7−H2O
b9−NH3
b9
y8−NH3
y8
y9−NH3
y9
b10−H2O
b10
y10
b11
y11
b12

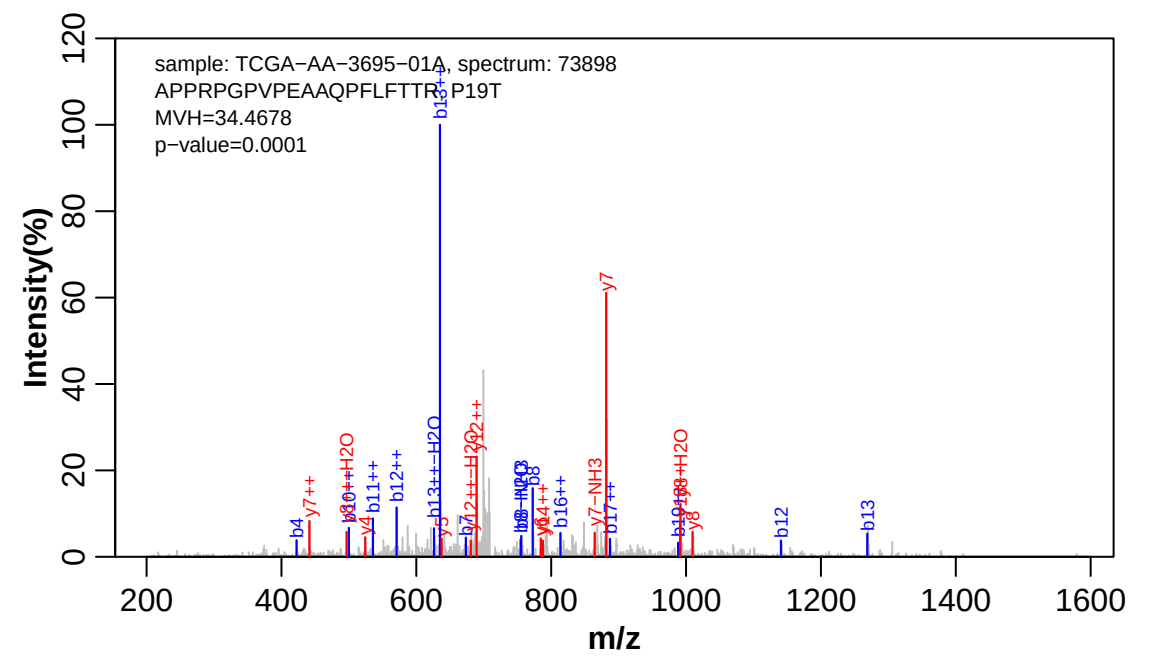

sample: TCGA−AA−3684−01A, spectrum: 66770
VSYGLGEEEHDQEGR, D7E
MVH=29.7732
p−value=0.0001
Intensity(%)
m/z
y13++
y10++
y12++
y14++
y11++
y14++−H2O
y4−H2O
b5−H2O
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

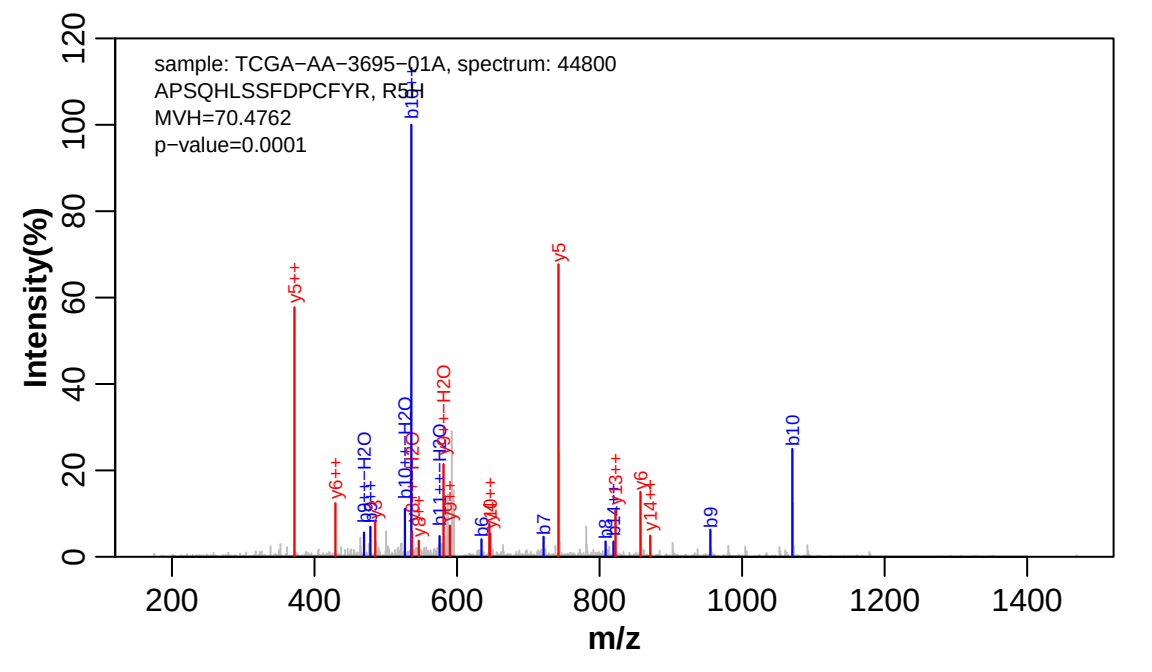

sample: TCGA−AA−3684−01A, spectrum: 7876
VVLQPEALFSLYSK, F8L
MVH=61.5789
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
y5
y6
y7
y9
y10
b11−H2O
y11
y12

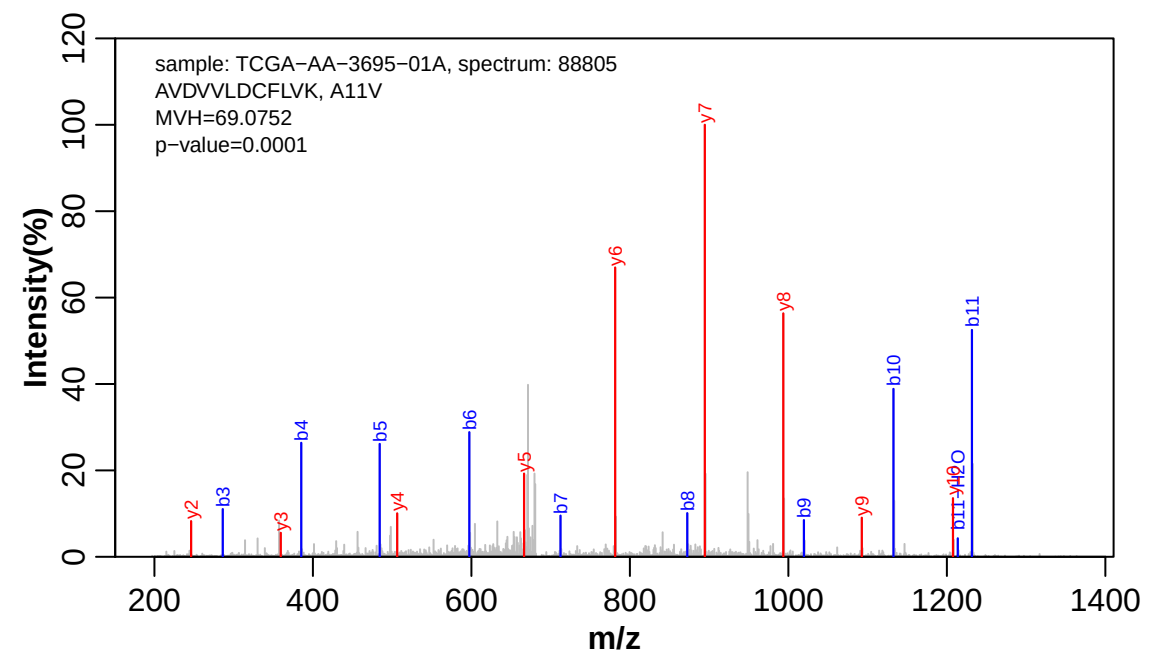

sample: TCGA−AA−3695−01A, spectrum: 62066
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=49.3411
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b13−H2O
b9
b8
b5
y4
b6
y5
b7
b16++−H2O
b17++
b16−NH3
b17

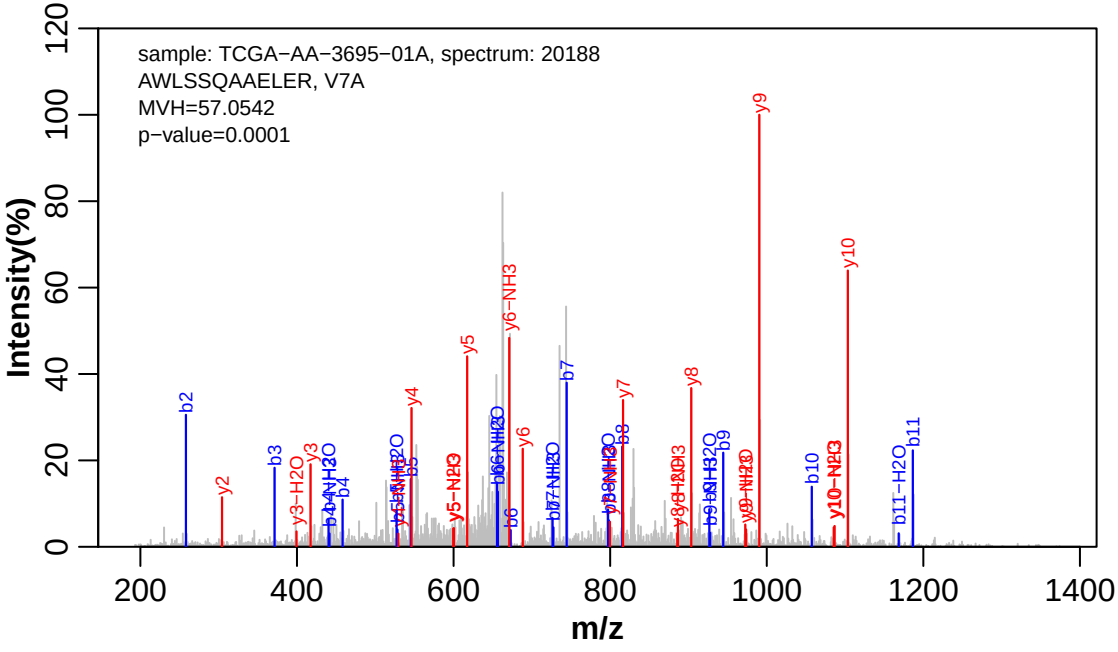

sample: TCGA−AA−3695−01A, spectrum: 45709
AAPSVTLFPPSSEELQANK, T2A
MVH=56.7605
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

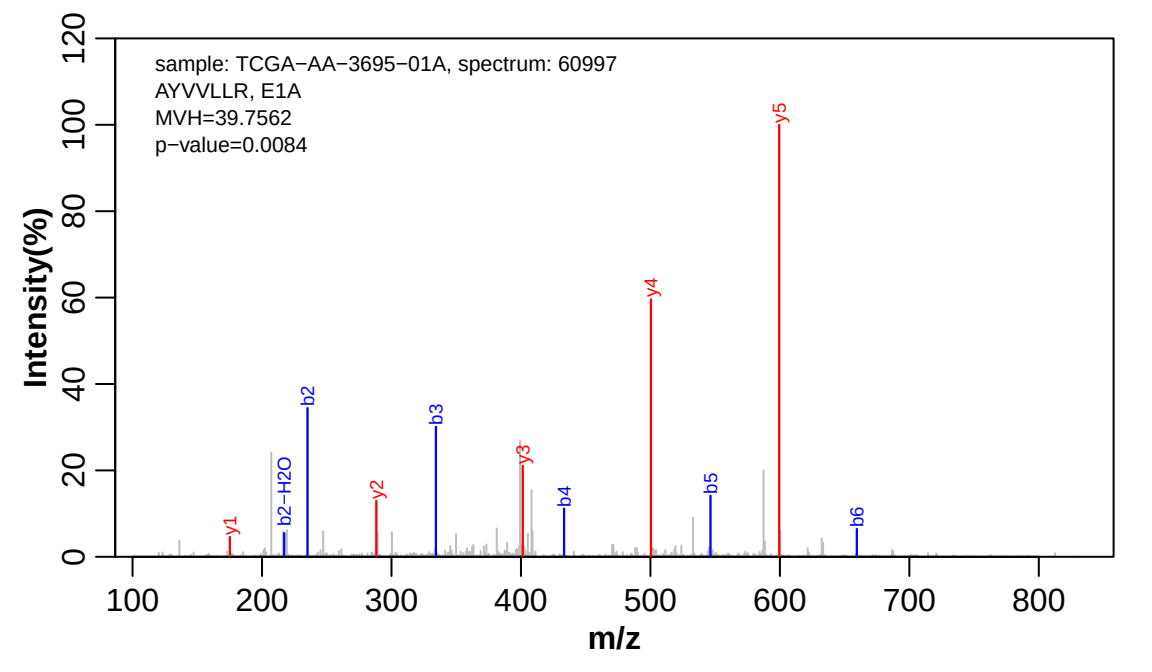

sample: TCGA−AA−3695−01A, spectrum: 7854
AGVETTTPSK, K7T
MVH=35.3446
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y2−H2O
b3
y2
y3
b4
y4
b5
b6
y6
b7
y7−NH3
y7
b9

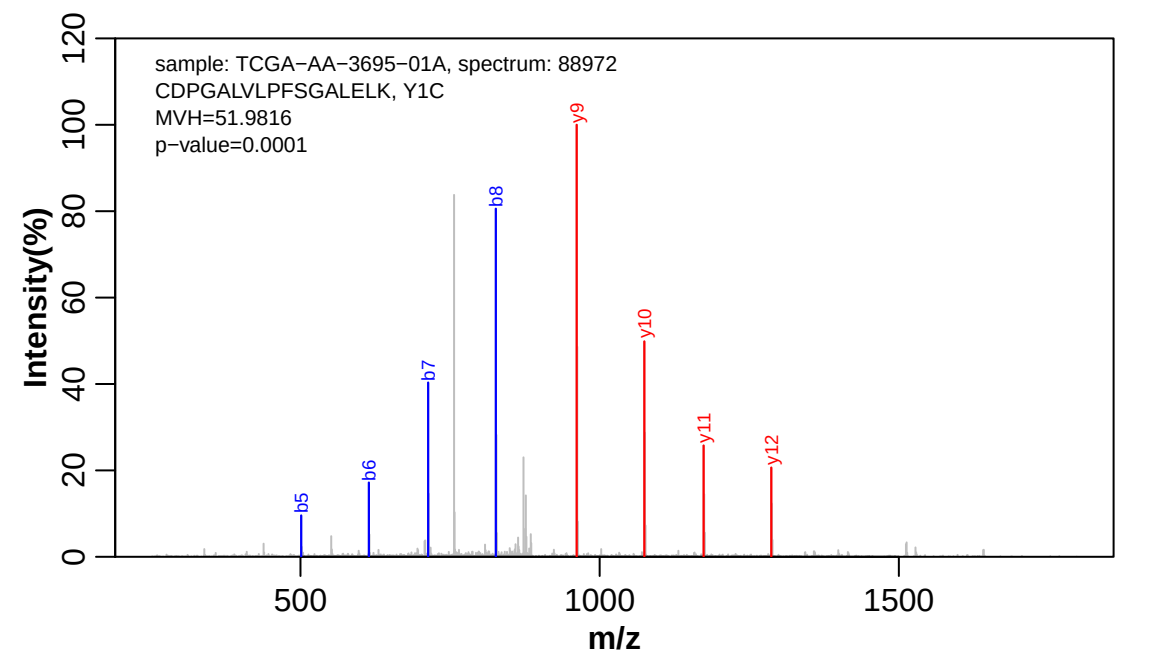

sample: TCGA−AA−3695−01A, spectrum: 73898
APPRPGPVPEAAQPFLFTTR+P19T
MVH=34.4678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b13++
b13++−H2O
y7
y7++
b4
b10++−H2O
y4
b11++
b12++
y12++
y12++−H2O
b16++
y7−NH3
b17++
y8++−H2O
b12
b13

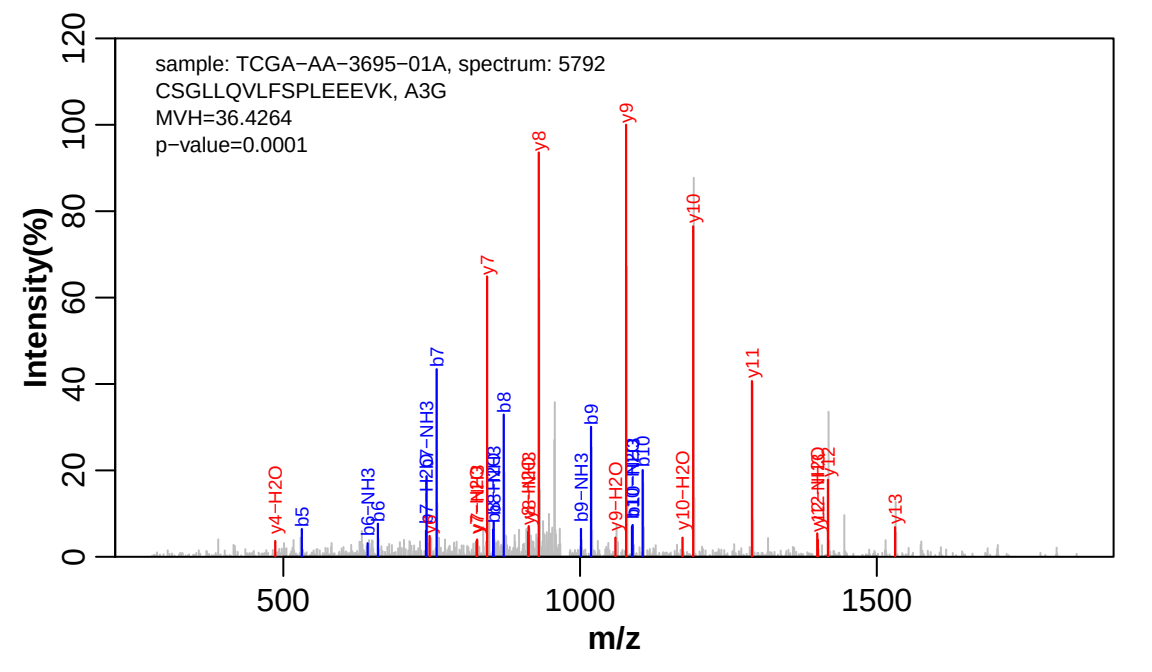

sample: TCGA−AA−3695−01A, spectrum: 44800
APSQHLSSFDPCFYR, R5H
MVH=70.4762
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5++
y5
b10++
b10
y6++
y6
y14++
b7
b9
b10++−H2O
b10−H2O
y8++−H2O
y8−H2O
y9++−H2O
y9−H2O
y11++−H2O
y11−H2O
b8++−H2O
b8−H2O
y10++
y10
b6
b8
y13++
y13
b4
y4

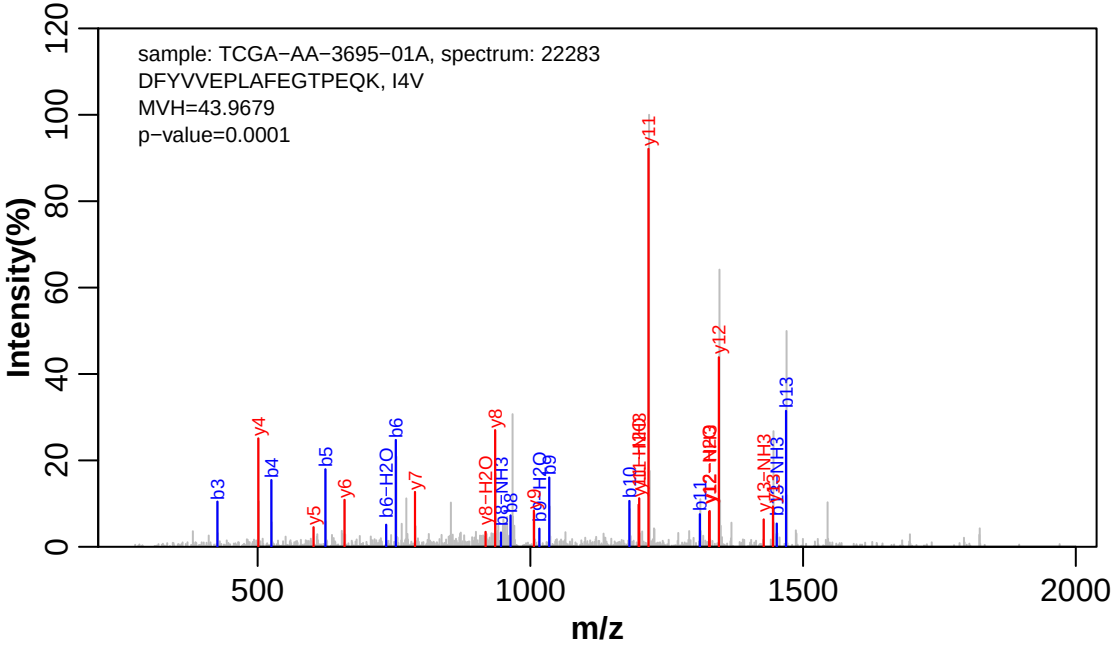

sample: TCGA−AA−3695−01A, spectrum: 88805
AVDVVLDCFLVK, A11V
MVH=69.0752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5
b6
y5
b7
y6
b8
y7
b9
y8
y9
b10
b11
b11−H2O

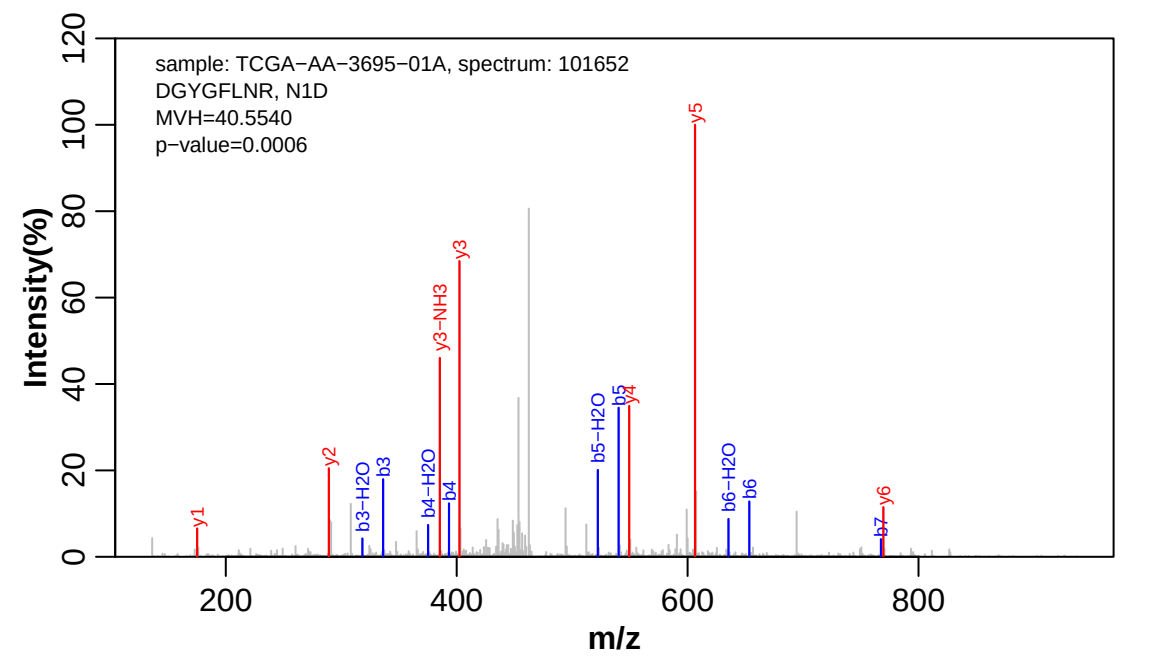

sample: TCGA−AA−3695−01A, spectrum: 20188
AWLSSQAAELER, V7A
MVH=57.0542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4
b5
y5
y5−NH3
y6−NH3
b6
y6
b7
y7
b8
y8
y9
y10
b10
y10−NH3
b11
b11−H2O

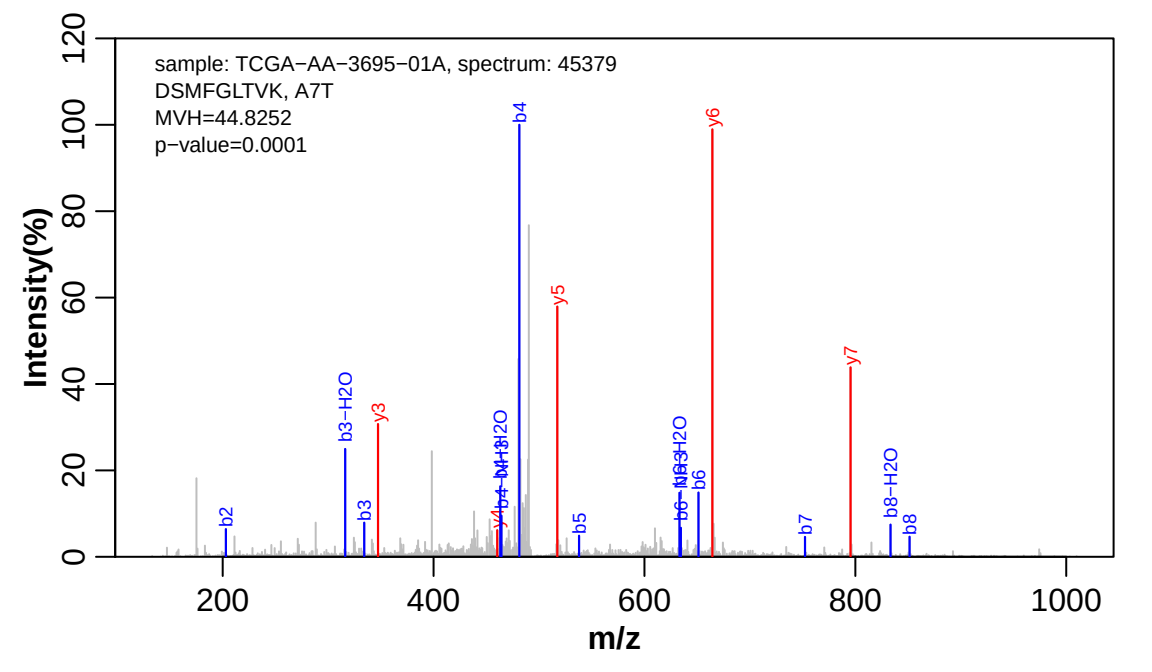

sample: TCGA−AA−3695−01A, spectrum: 60997
AYVVLLR, E1A
MVH=39.7562
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

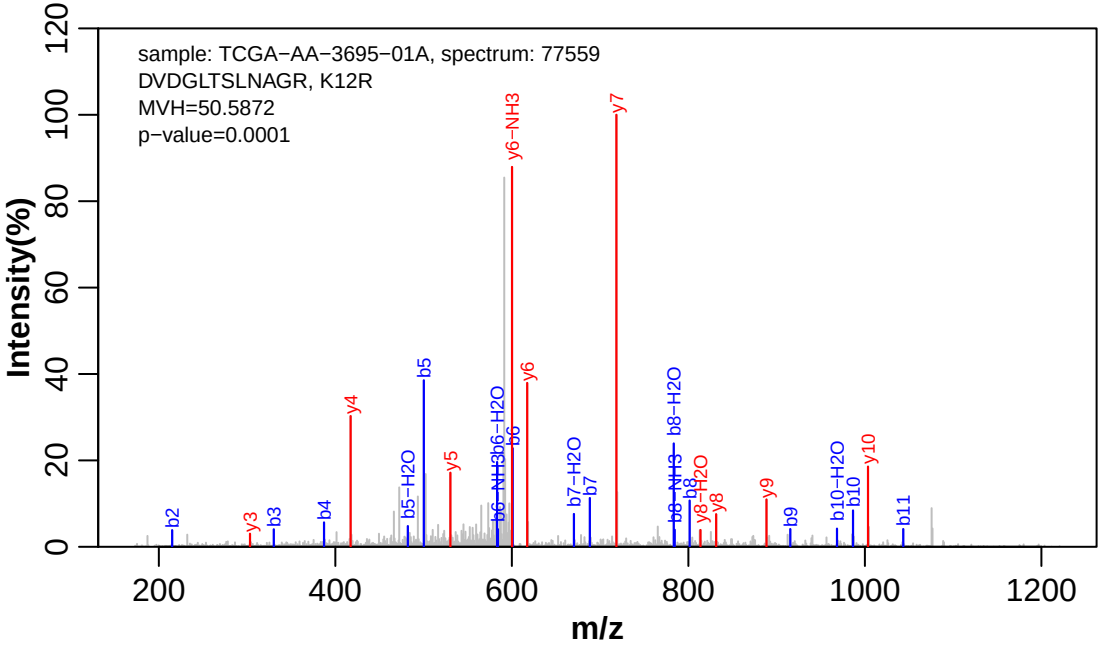

sample: TCGA−AA−3695−01A, spectrum: 88972
CDPGALVLPFSGALELK, Y1C
MVH=51.9816
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12

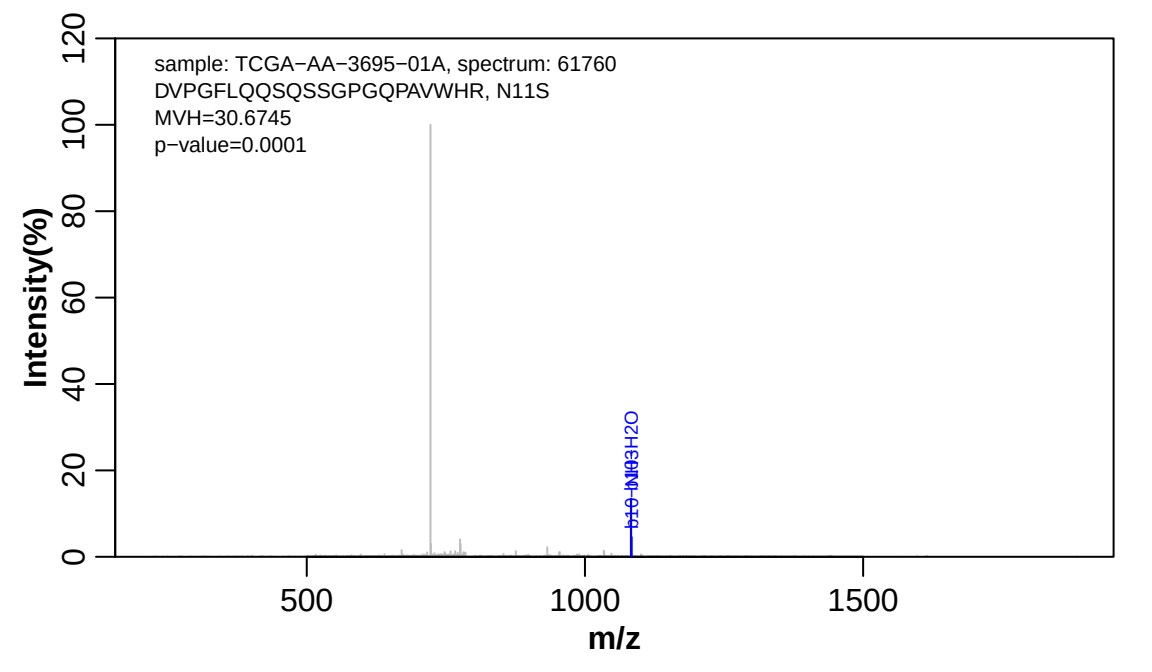

sample: TCGA−AA−3695−01A, spectrum: 5792
CSGLLQVLFSPLEEEVK, A3G
MVH=36.4264
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
y4−H2O
b5
b6−NH3
b6
y7−H2O
y7−NH3
b7
y7
b8
y8
y9
b9−NH3
b9
y9−H2O
y10−H2O
y10
y11
y12
y13

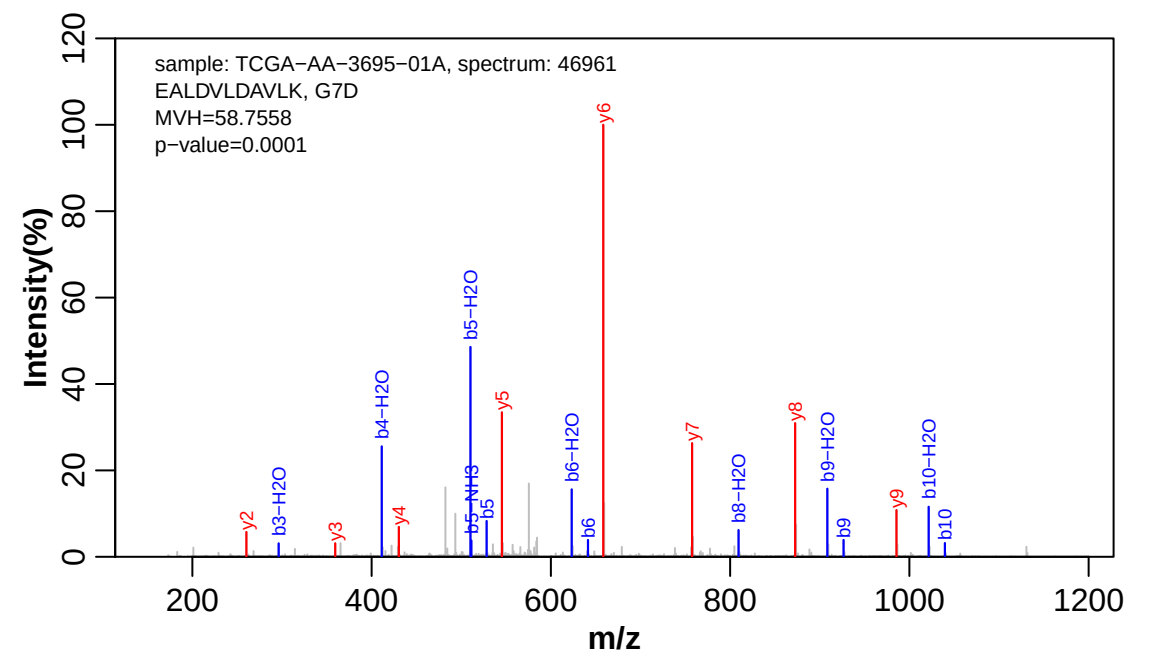

sample: TCGA−AA−3695−01A, spectrum: 22283
DFYVVEPLAFEGTPEQK, I4V
MVH=43.9679
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6
b6
b6−H2O
y7
y8
y8−H2O
b8
b8−NH3
b9
b9−H2O
b10
y11
y11−NH3
b11
y12
y12−NH3
y13−NH3
b13

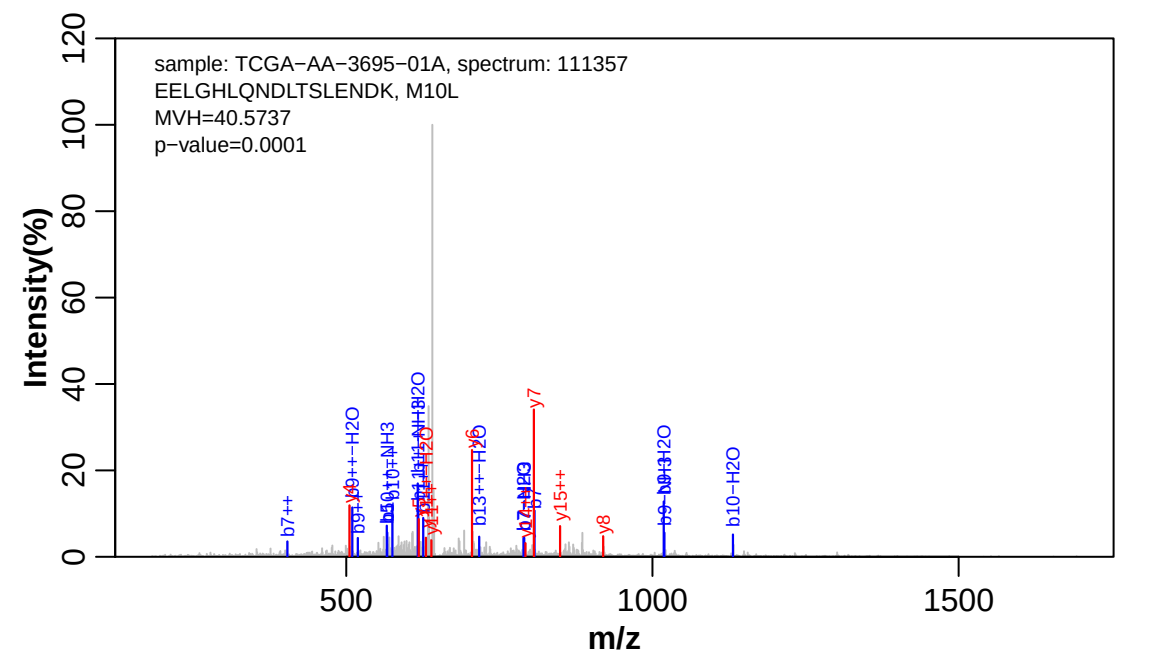

sample: TCGA−AA−3695−01A, spectrum: 101652
DGYGFLNR, N1D
MVH=40.5540
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

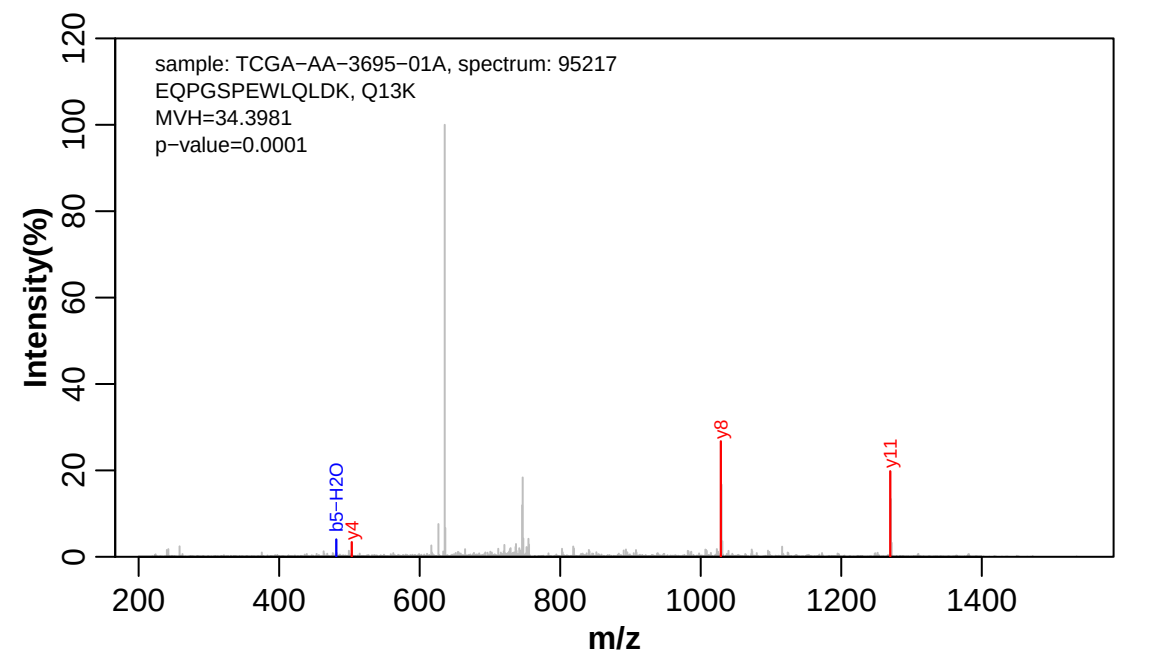

sample: TCGA−AA−3695−01A, spectrum: 45379
DSMFGLTVK, A7T
MVH=44.8252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b3−H2O
y3
b4
y4
b4−NH3
b4−H2O
y5
b5
b6
b6−NH3
b6−H2O
y6
y7
b7
b8−H2O
b8

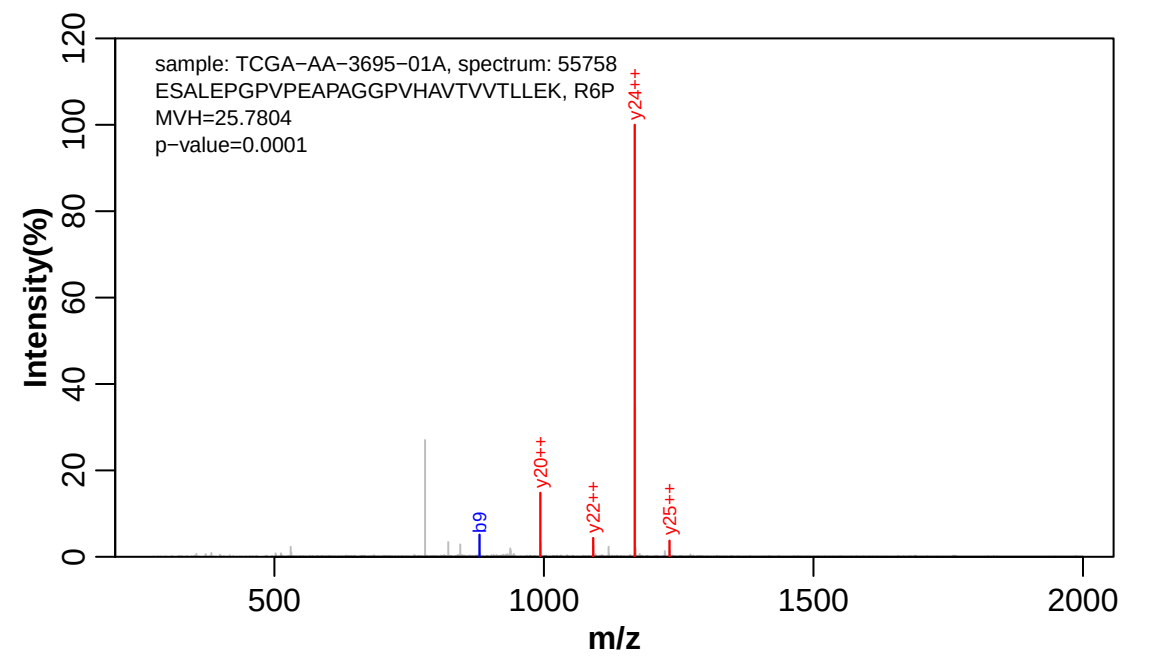

sample: TCGA−AA−3695−01A, spectrum: 77559
DVDGLTSLNAGR, K12R
MVH=50.5872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y9
b9
b10−H2O
b10
y10
b11

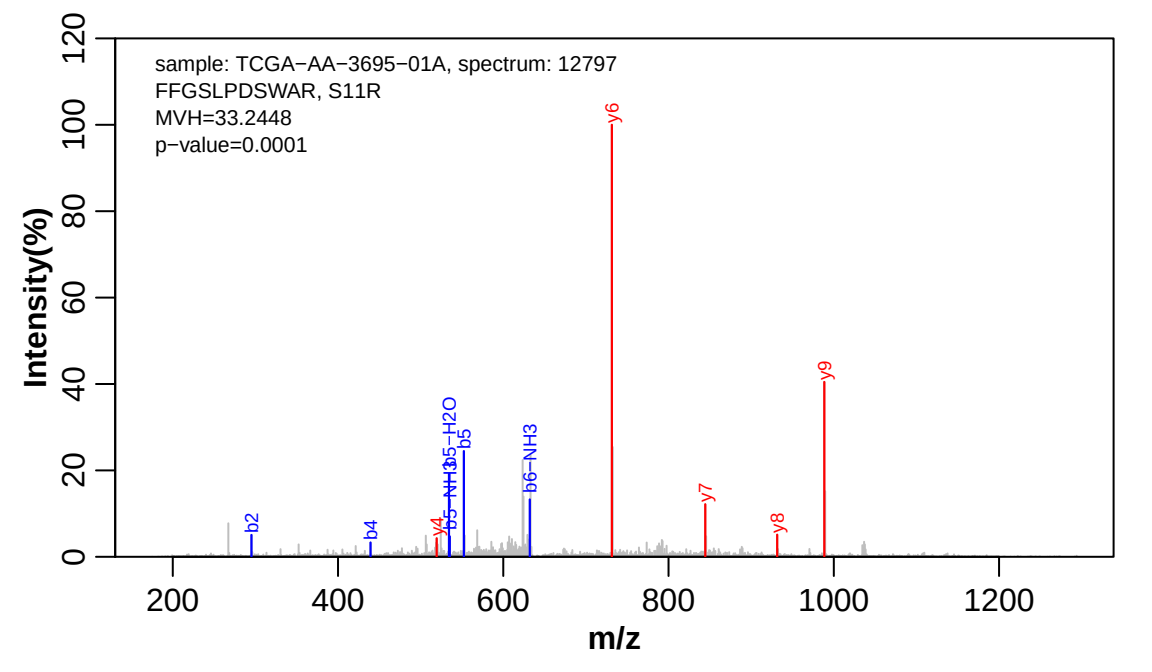

sample: TCGA−AA−3695−01A, spectrum: 61760
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=30.6745
p−value=0.0001
b10-NH3
b10-H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

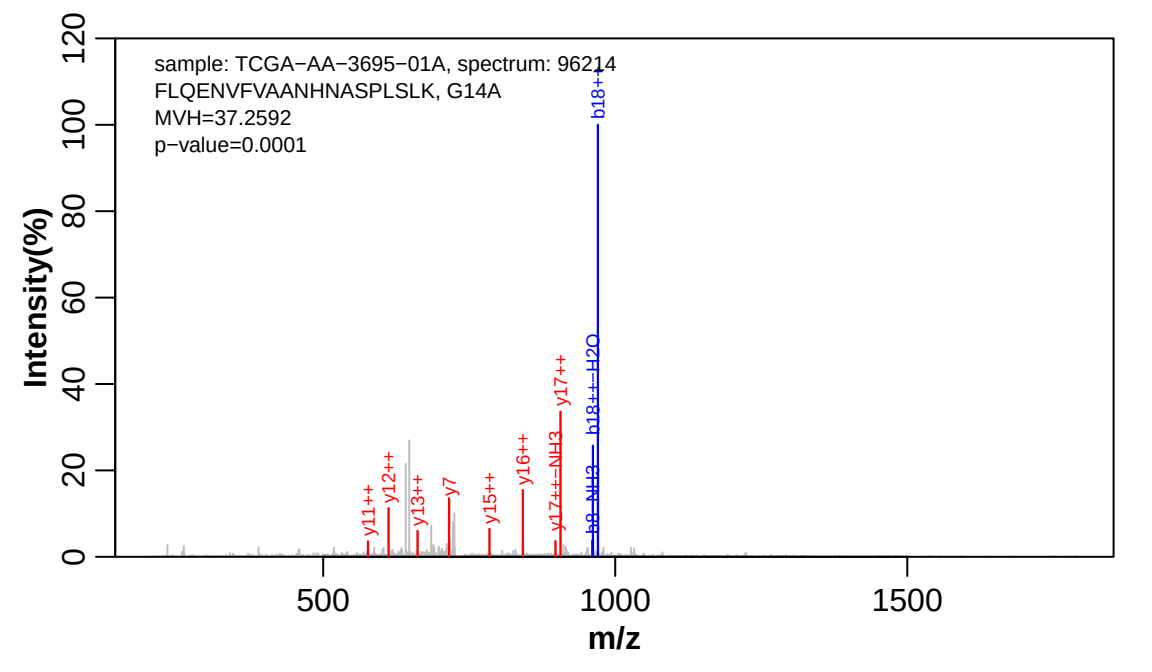

sample: TCGA−AA−3695−01A, spectrum: 46961
EALDVLDAVLK, G7D
MVH=58.7558
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

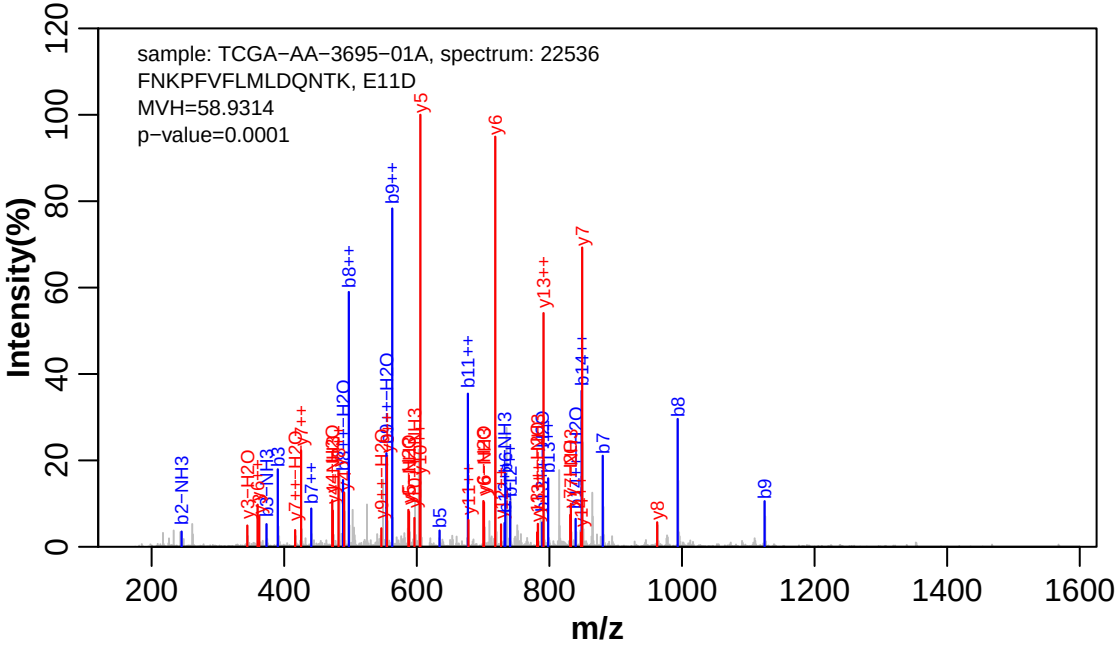

sample: TCGA−AA−3695−01A, spectrum: 111357
EELGHLQNDLTSLENDK, M10L
MVH=40.5737
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
b9++−H2O
b9++−NH3
b10++−NH3
b10++−H2O
b13++−H2O
y7
y15++
y8
b10−H2O

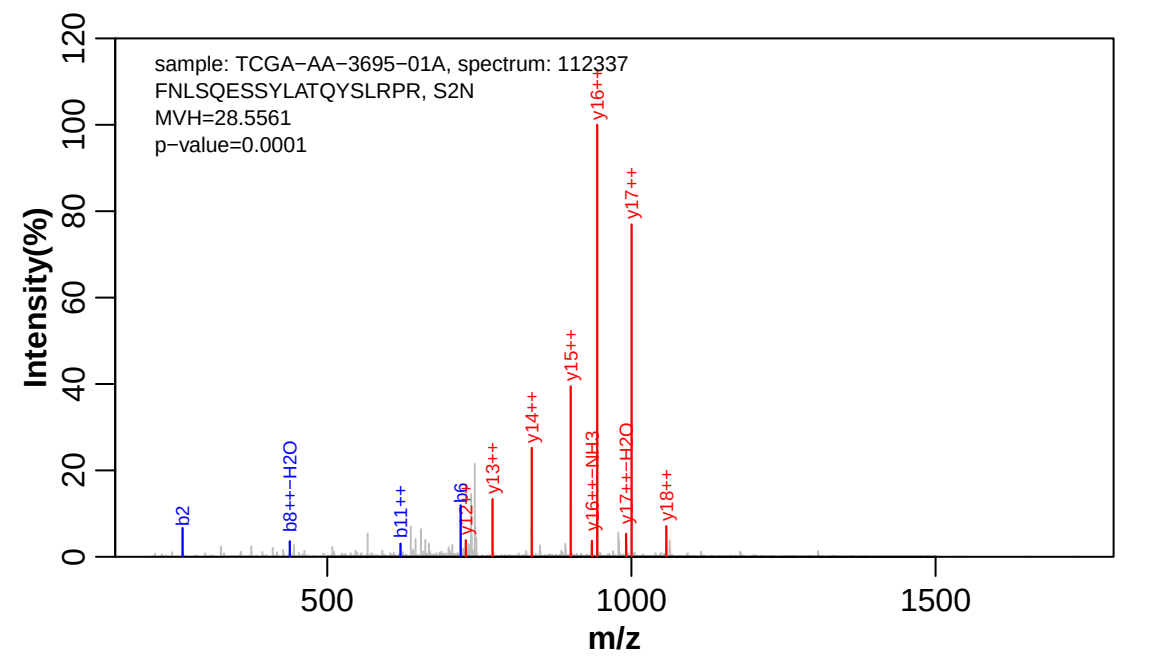

sample: TCGA−AA−3695−01A, spectrum: 95217
EQPGSPEWLQLDK, Q13K
MVH=34.3981
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

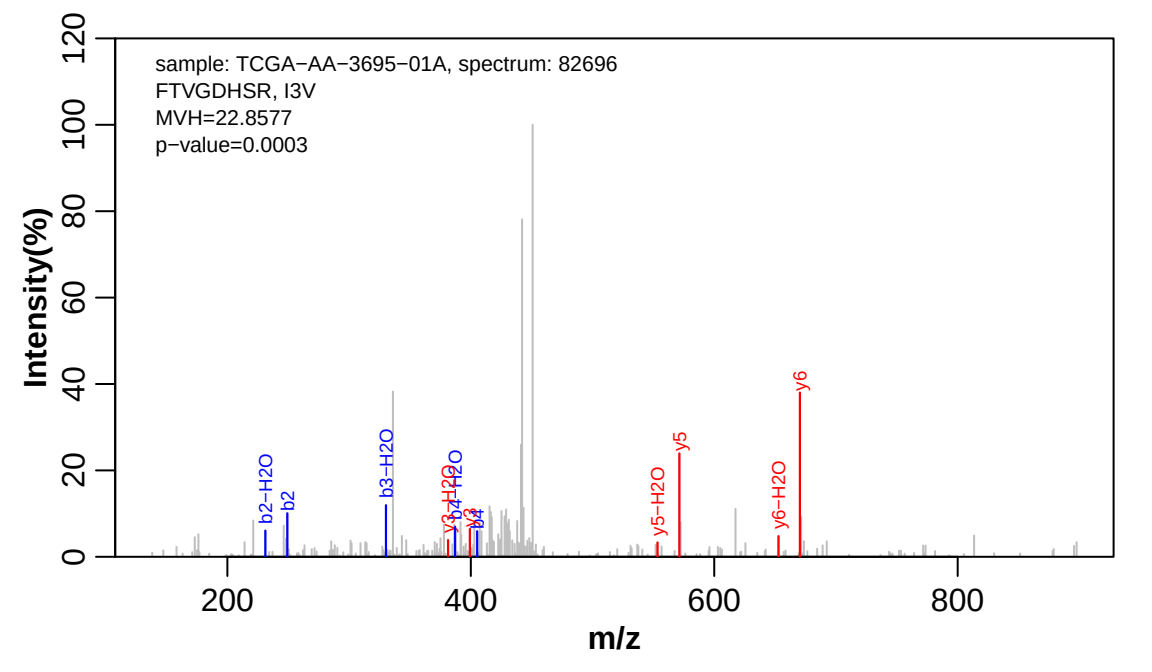

sample: TCGA−AA−3695−01A, spectrum: 55758
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=25.7804
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

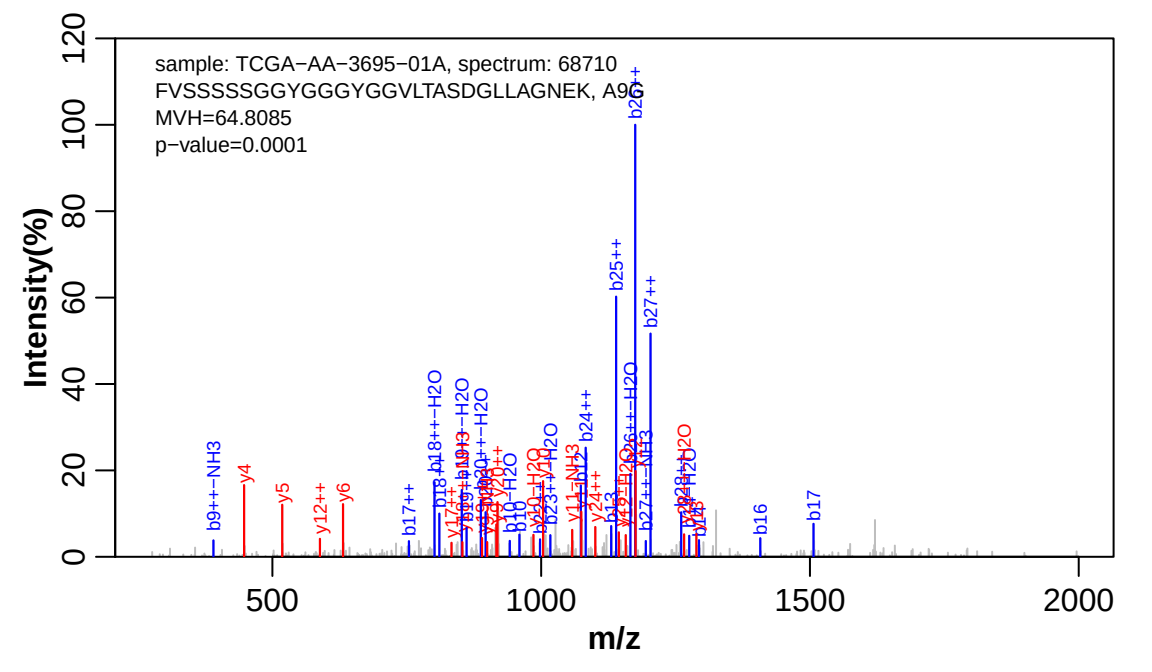

sample: TCGA−AA−3695−01A, spectrum: 12797
FFGSLPDSWAR, S11R
MVH=33.2448
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
y4
b5−NH3
b5
b5−H2O
b6−NH3

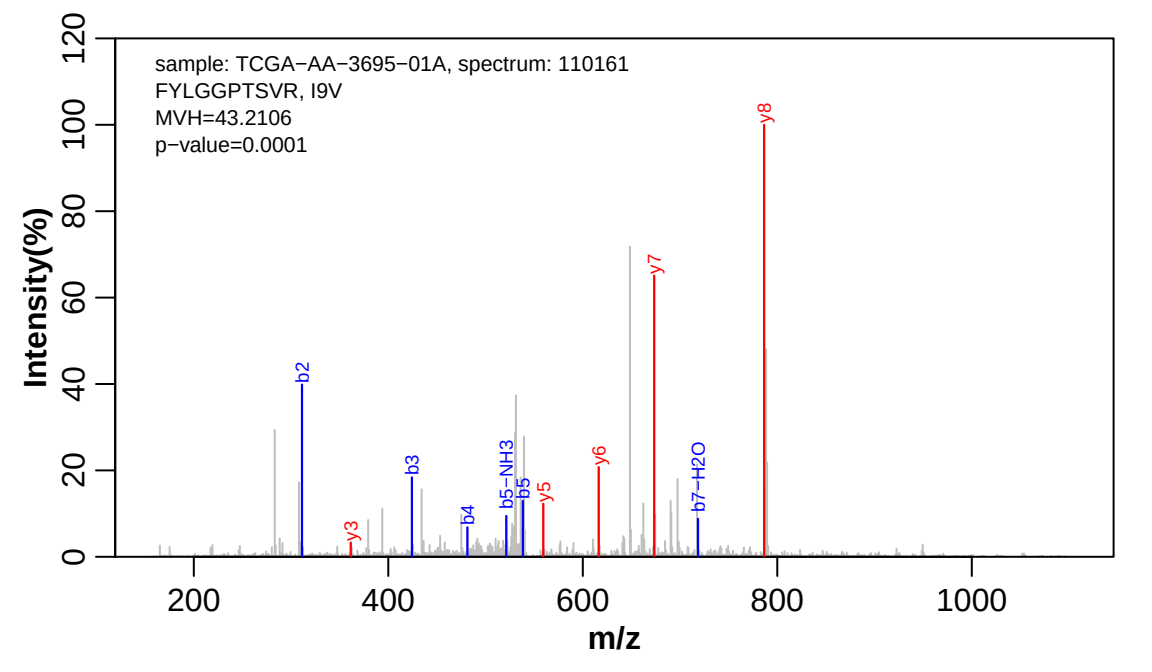

sample: TCGA−AA−3695−01A, spectrum: 96214
FLQENVFVAANHNASPLSLK, G14A
MVH=37.2592
p−value=0.0001
b18++
b18++−H2O
b18++−NH3
y17++
y17++−NH3
y16++
y15++
y13++
y12++
y11++
y7
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

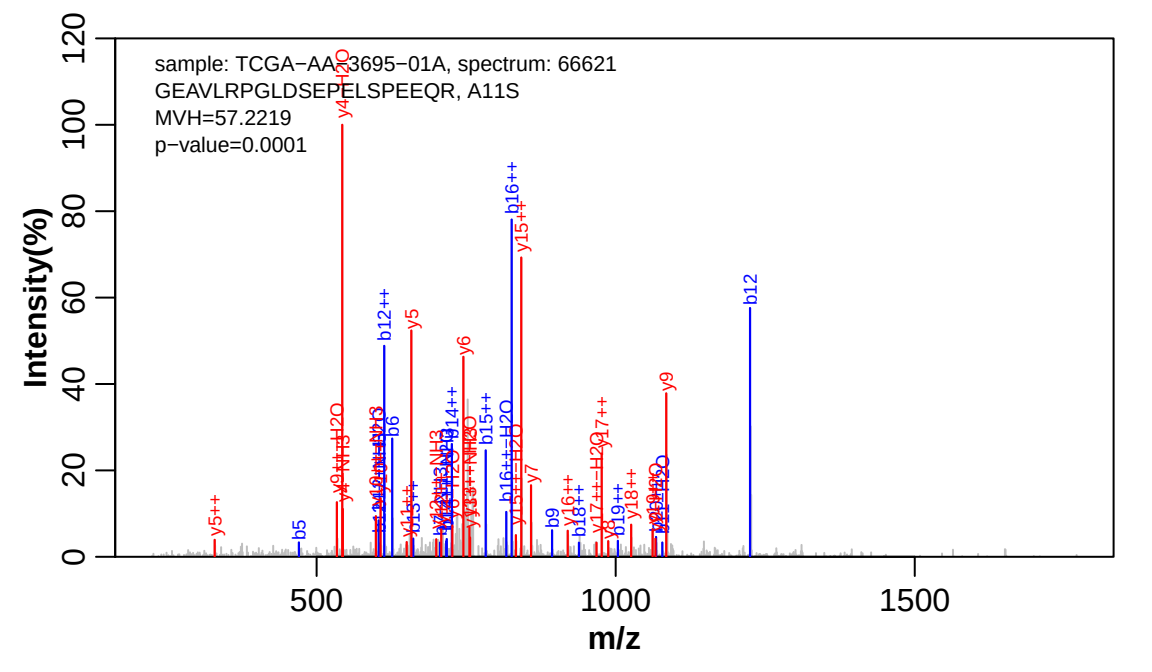

sample: TCGA−AA−3695−01A, spectrum: 22536
FNKPFVFLMLDQNTK, E11D
MVH=58.9314
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
b9++
b8++
y7
y13++
b11++
b14++
b8
b7
b9
y8
b5
b2−NH3
b3
b7++
y7++
y7++−H2O
y7++−NH3
y3−H2O
y3−NH3
b3−NH3
b3−H2O
y8++−H2O
y8++−NH3
y9++−H2O
y9++−NH3
y10++−H2O
y10++−NH3
y11++
y11++−H2O
y11++−NH3
b12++
b12++−H2O
b12++−NH3
b13++
b13++−H2O
b13++−NH3
y12++
y12++−H2O
y12++−NH3
y13++−H2O
y13++−NH3
b14++−H2O
b14++−NH3

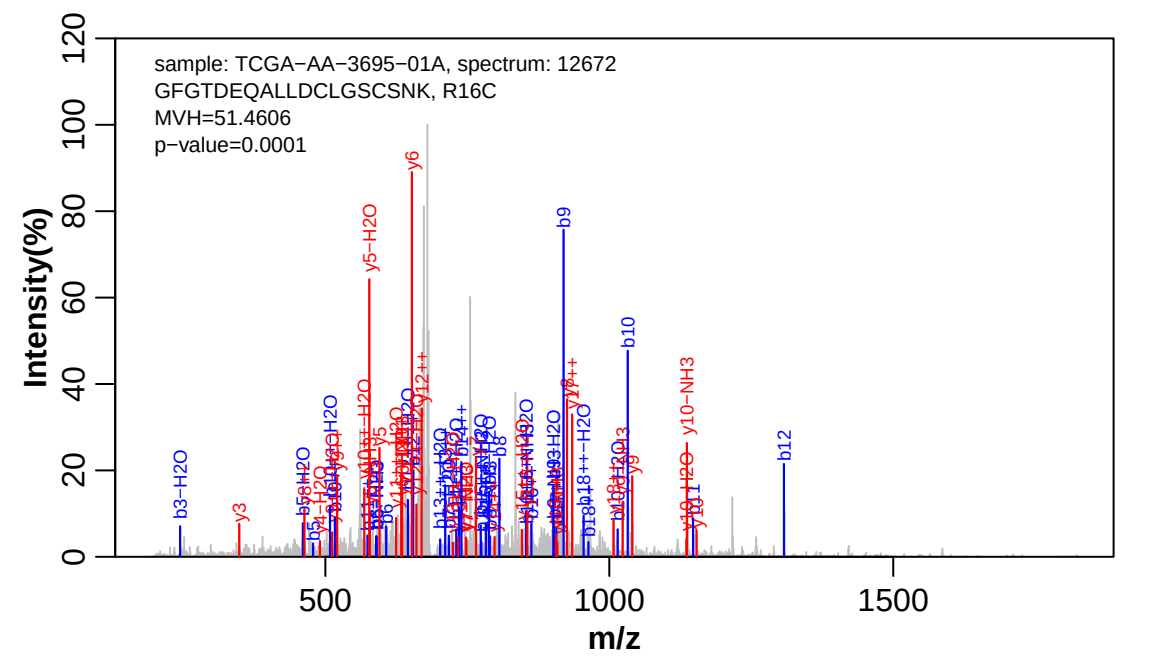

sample: TCGA−AA−3695−01A, spectrum: 112337
FNLSQESSYLATQYSLRPR, S2N
MVH=28.5561
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b8++−H2O
b11++
b6
y12++
y13++
y14++
y15++
y16++−NH3
y16++
y17++−H2O
y17++
y18++

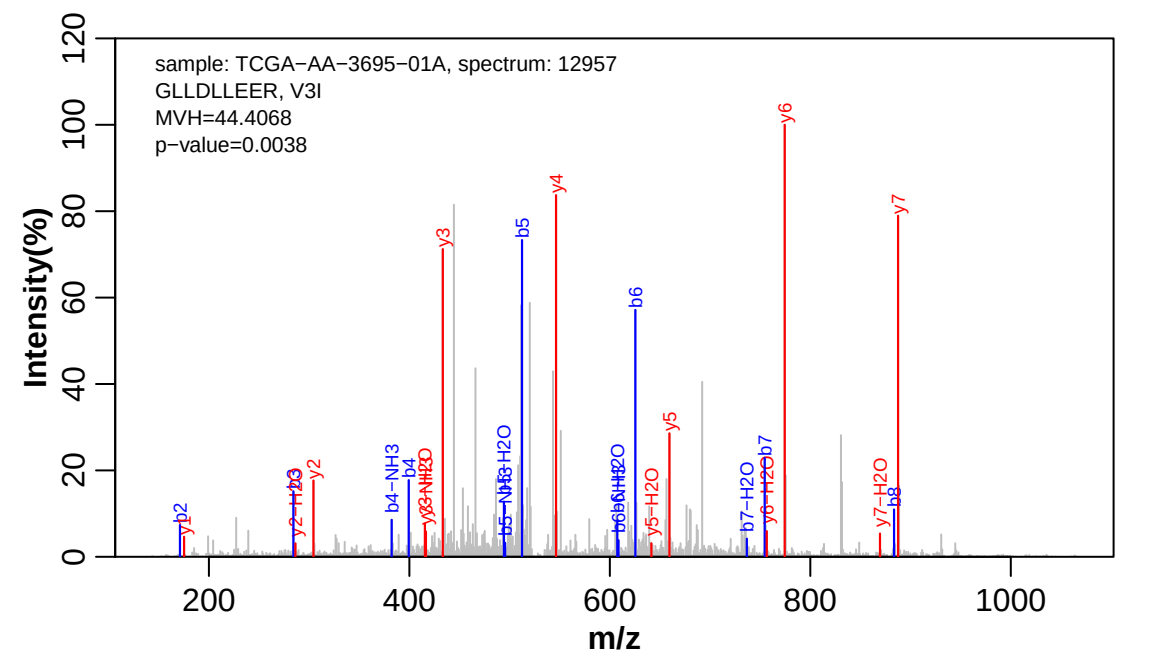

sample: TCGA−AA−3695−01A, spectrum: 82696
FTVGDHSR, I3V
MVH=22.8577
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3−H2O
y3
b4
y5−H2O
y5
y6−H2O
y6

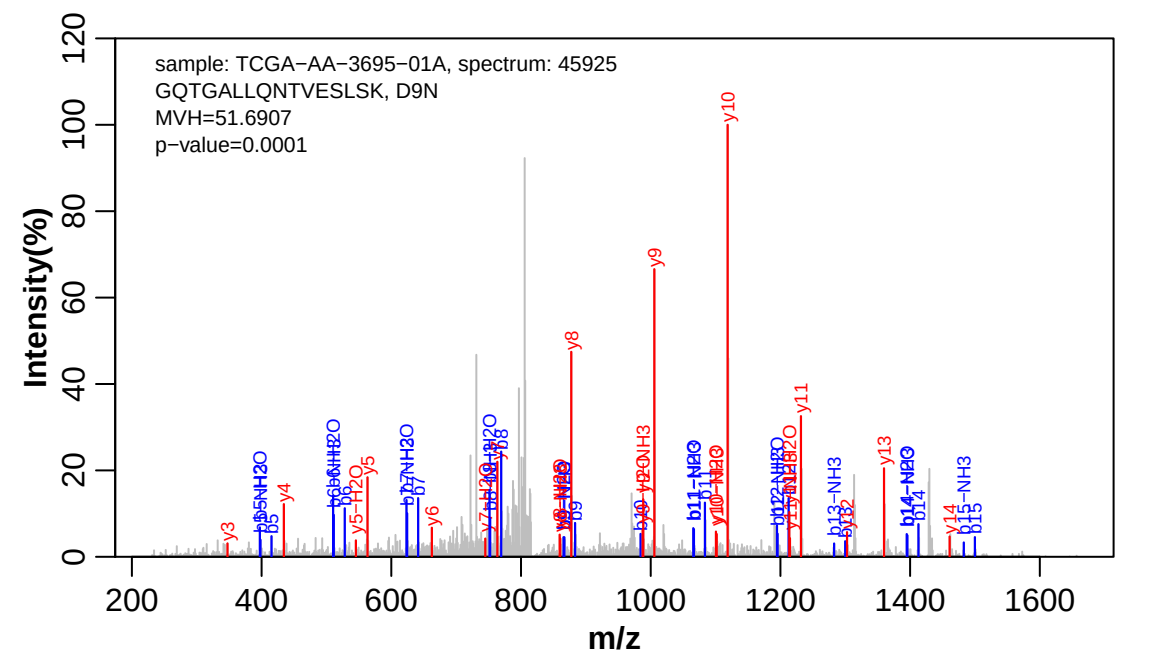

sample: TCGA−AA−3695−01A, spectrum: 68710
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=64.8085
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y12++
y6
b17++
b18++−H2O
b10−H2O
b25++
b27++
b24++
b16
b17

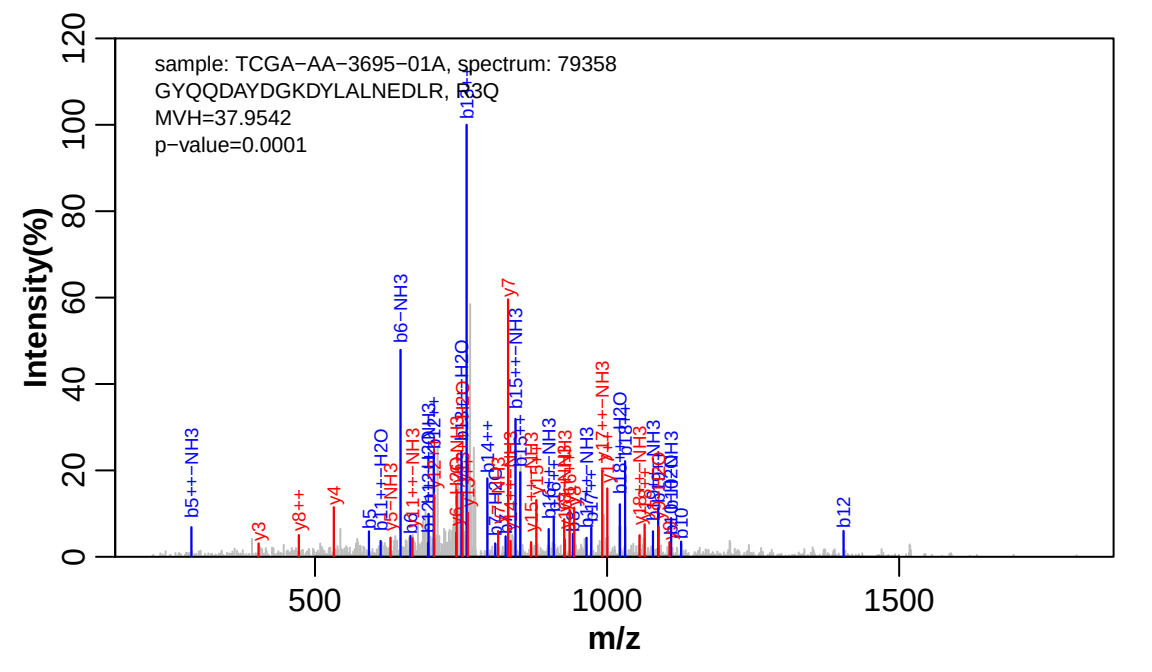

sample: TCGA−AA−3695−01A, spectrum: 110161
FYLGGPTSVR, I9V
MVH=43.2106
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y3
b3
b4
b5−NH3
b5
y5
y6
y7
b7−H2O
y8

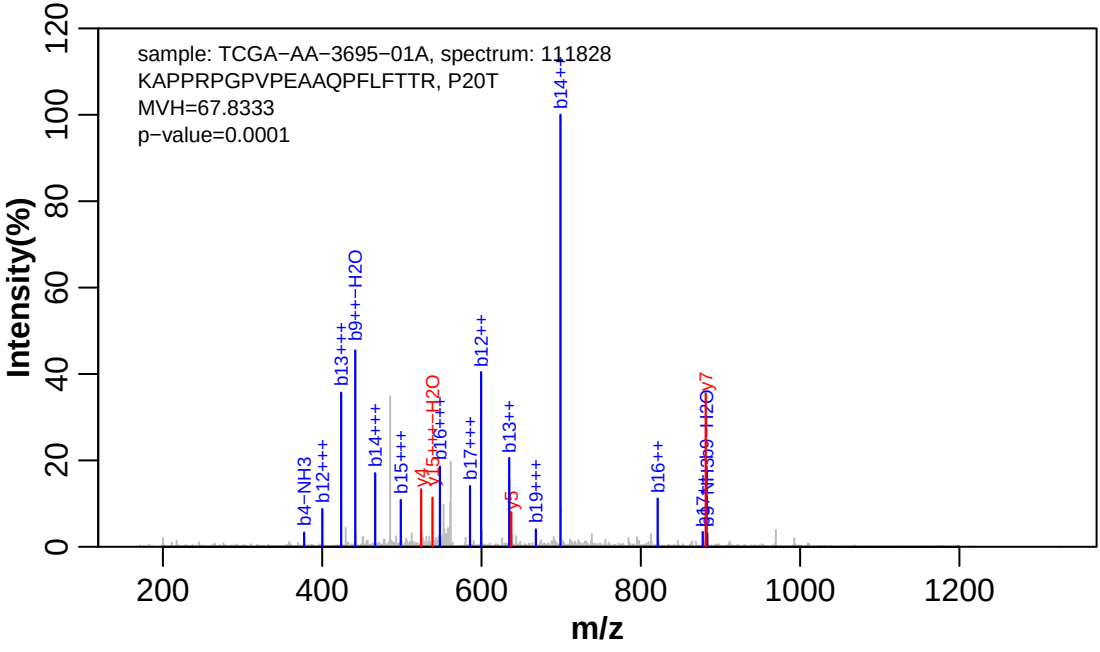

sample: TCGA−AA−3695−01A, spectrum: 66621
GEAVLRPGLDSEPELSPEEQR, A11S
MVH=57.2219
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4−H2O
b12++
y5
y6
b16++
y15++
b12
y9
y5++
b5
b6
y13++
b14++
b15++
y7
b9
y16++
b18++
y17++−H2O
y17++
y8
b19++
y18++

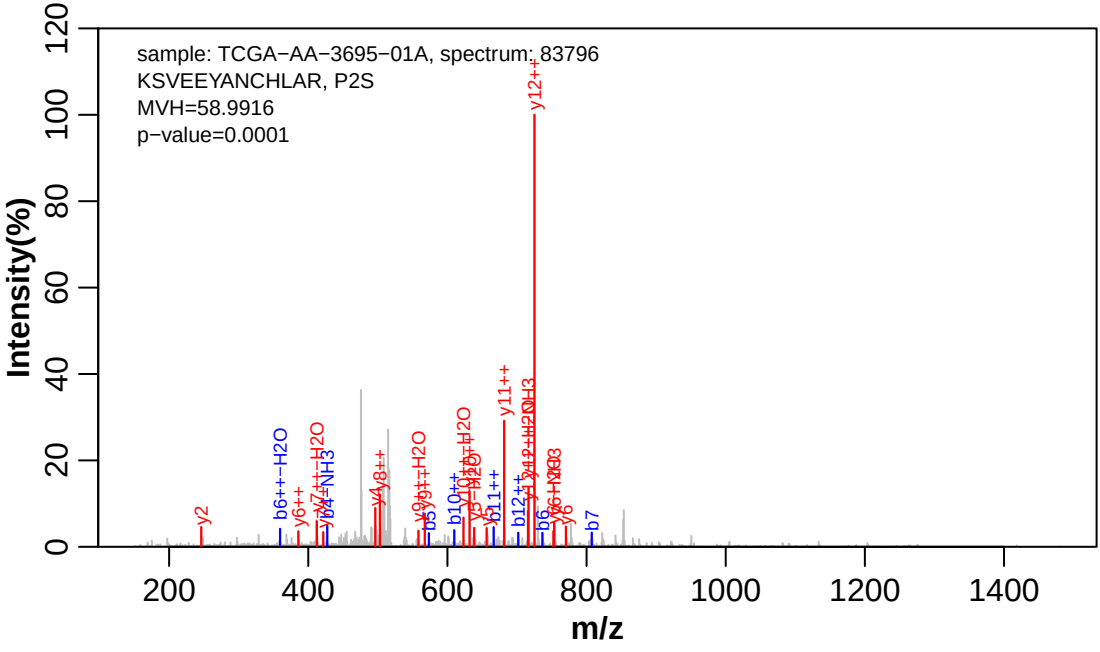

sample: TCGA−AA−3695−01A, spectrum: 12672
GFGTDEQALLDCLGSCSNK, R16C
MVH=51.4606
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y5−H2O
y6
b9
b10
y10−NH3
b12

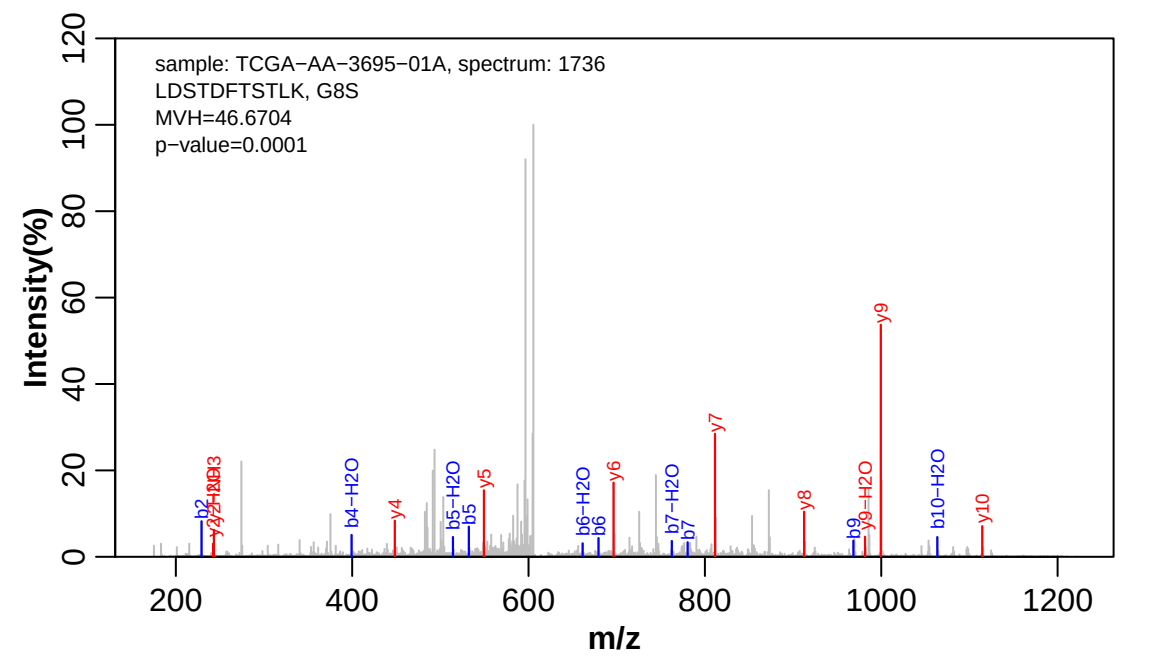

sample: TCGA−AA−3695−01A, spectrum: 12957
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y6
y4
y7
y3
b5
b6
y5
y2
b4−NH3
b7−H2O
y7−H2O
y6−H2O
y5−H2O
b5−NH3−H2O
b7
b8
b2
y1
y2−H2O
b4
y3−NH3
y3−H2O

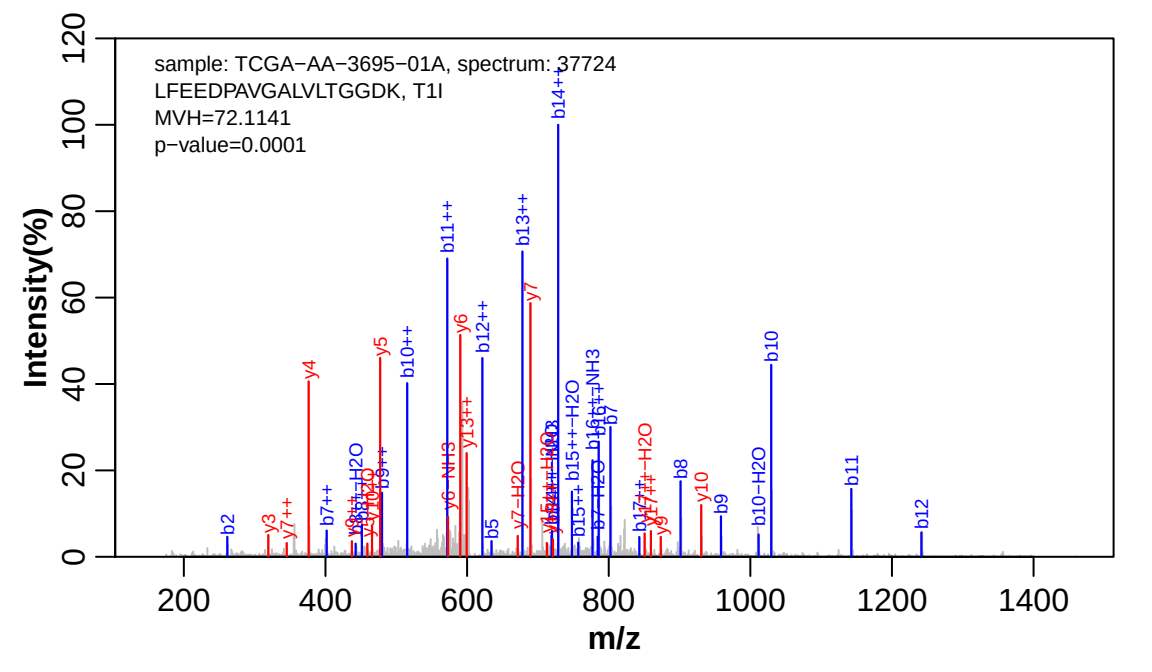

sample: TCGA−AA−3695−01A, spectrum: 45925
GQTGALLQNTVESLSK, D9N
MVH=51.6907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y4
y5
y6
y3
y14
b15
b13−NH3
b15−NH3

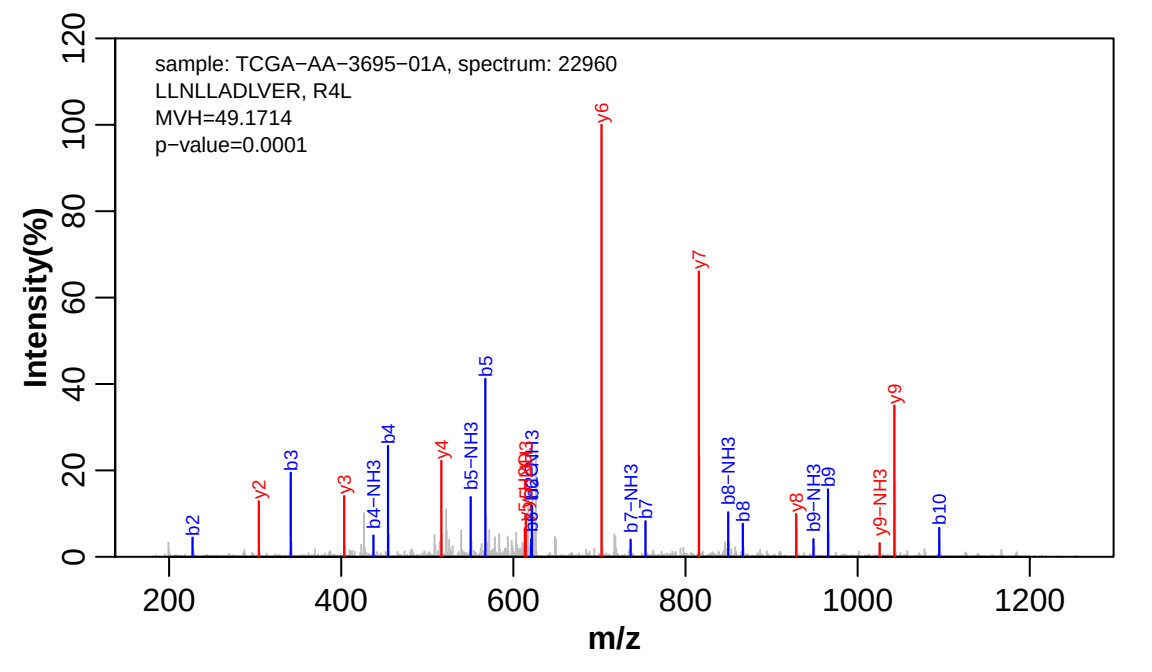

sample: TCGA−AA−3695−01A, spectrum: 79358
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=37.9542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b12
b5++−NH3
y3
y8++
y4
b5
b6−NH3
y7
b15++−NH3

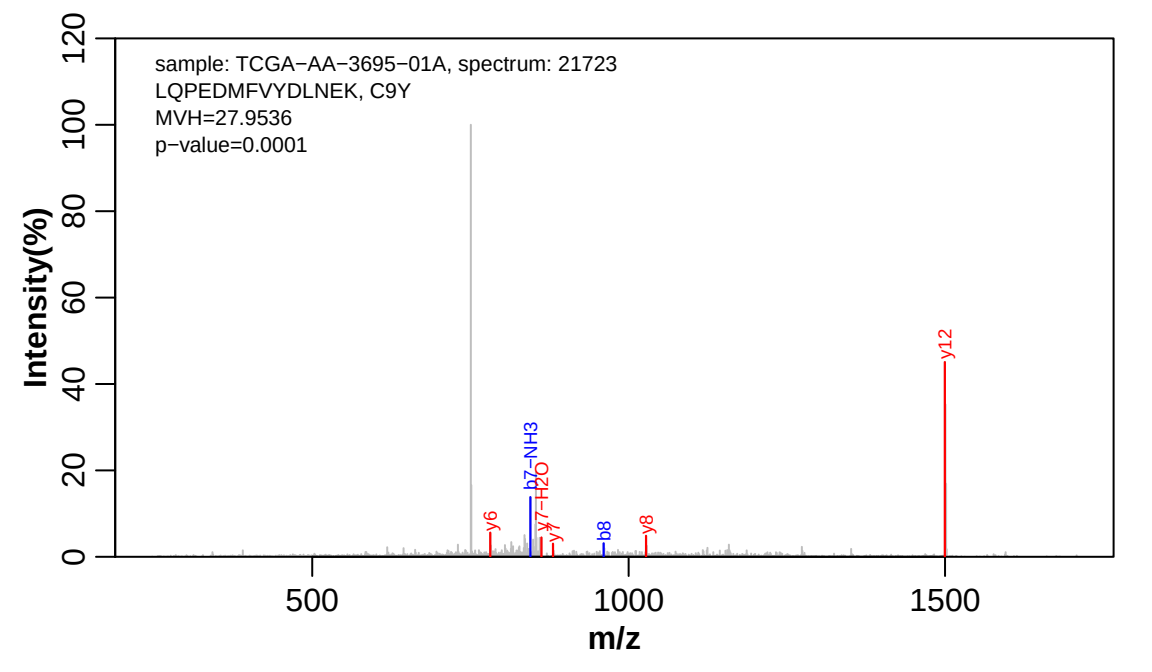

sample: TCGA−AA−3695−01A, spectrum: 111828
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=67.8333
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4−NH3
b12+++
b13+++
b9++−H2O
b14+++
b15+++
y4
y15+++−H2O
b16+++
b17+++
b12++
y5
b13++
b19+++
b14++
b16++
b37++NH3−H2O
y7

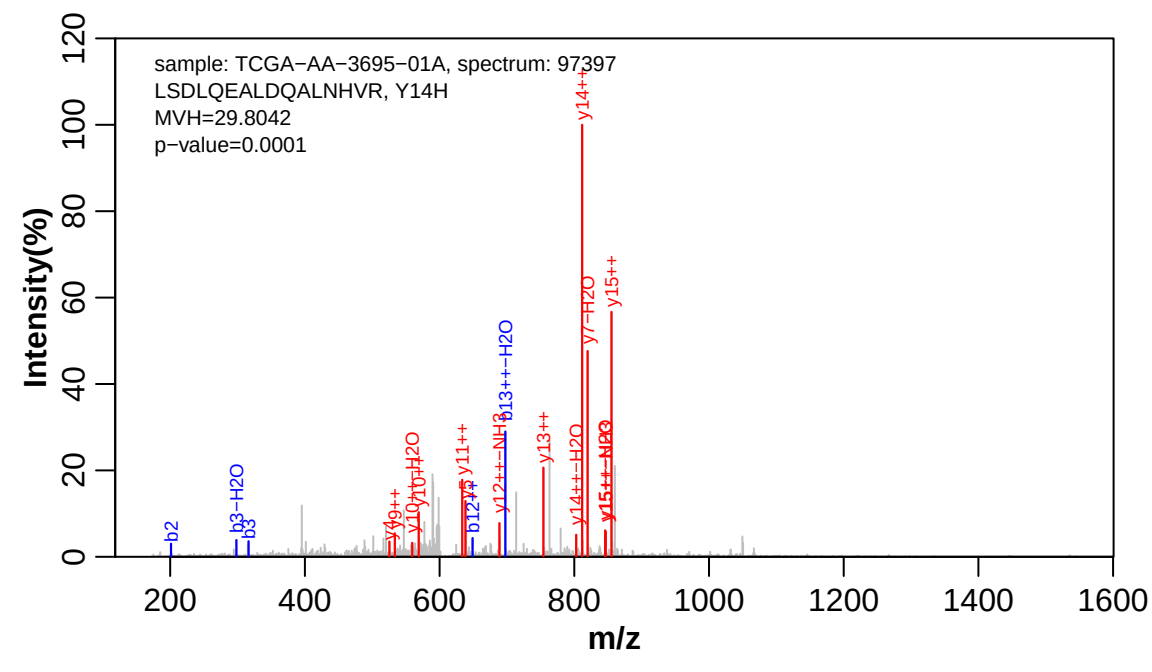

sample: TCGA−AA−3695−01A, spectrum: 83796
KSVEEYANCHLAR, P2S
MVH=58.9916
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y12++
y11++
y2
b6++−H2O
y6++
y7++−H2O
y7++−NH3
y4++
y8++
y9++−H2O
b10++
b11++
b12++
b7

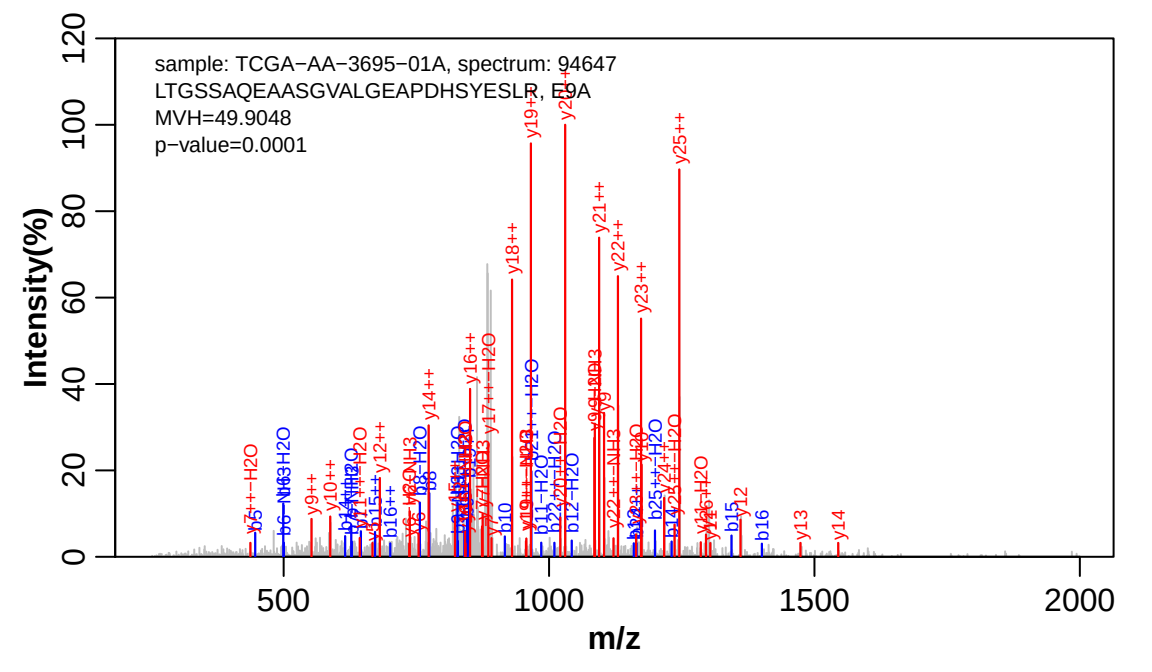

sample: TCGA−AA−3695−01A, spectrum: 1736
LDSTDFTSTLK, G8S
MVH=46.6704
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
b9
y9−H2O
y9
b10−H2O
y10

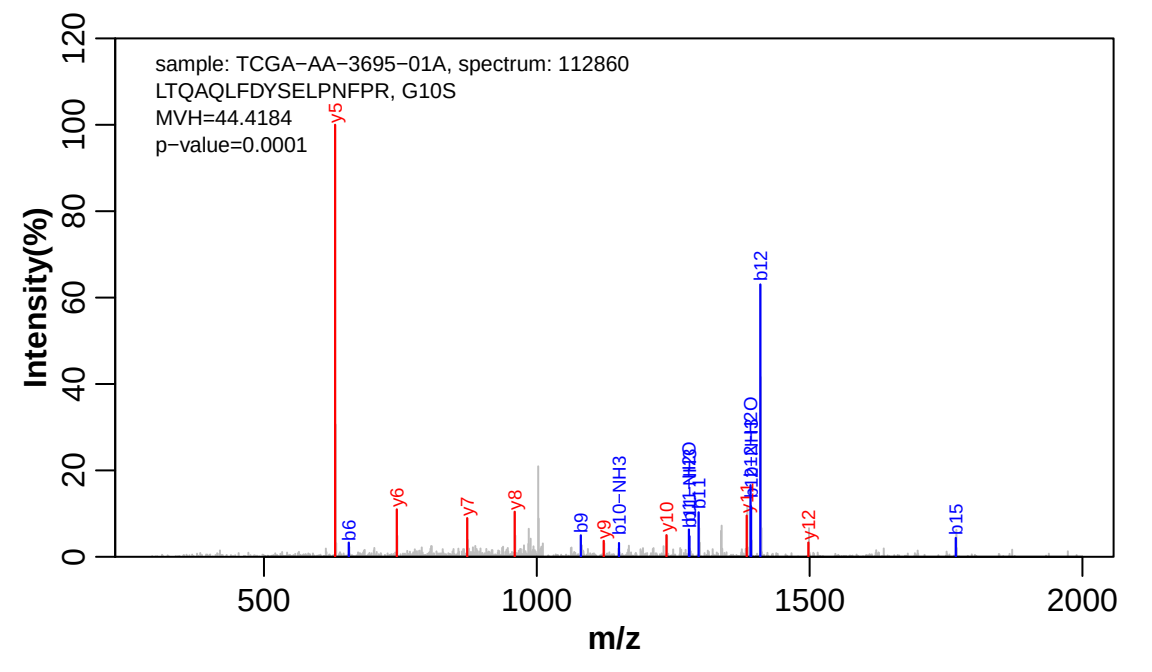

sample: TCGA−AA−3695−01A, spectrum: 37724
LFEEDPAVGALVLTGGDK, T1I
MVH=72.1141
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y7++
b7++
y4
y6−NH3
y6−H2O
y5
b9++
b10++
b11++
y13++
y6
b12++
b5
y7−H2O
b13++
y7
b14++
b15++−H2O
b15++−NH3
b7
b8
y10
b9
b10−H2O
b10
b11
b12

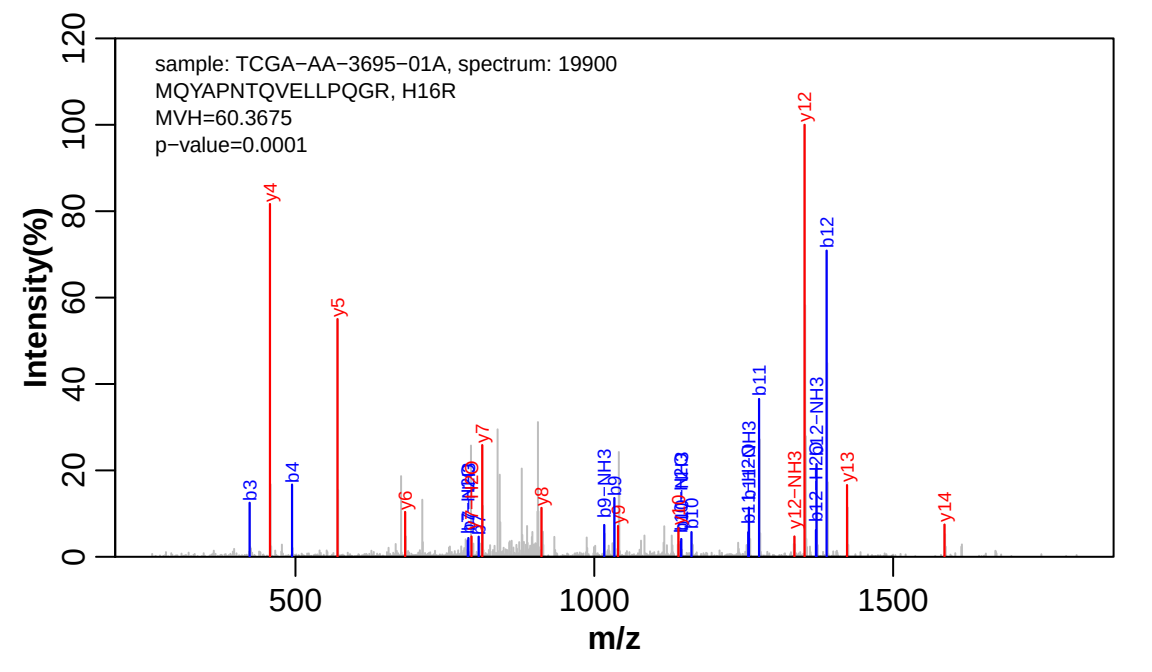

sample: TCGA−AA−3695−01A, spectrum: 22960
LLNLLADLVER, R4L
MVH=49.1714
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9−NH3
y9
b10

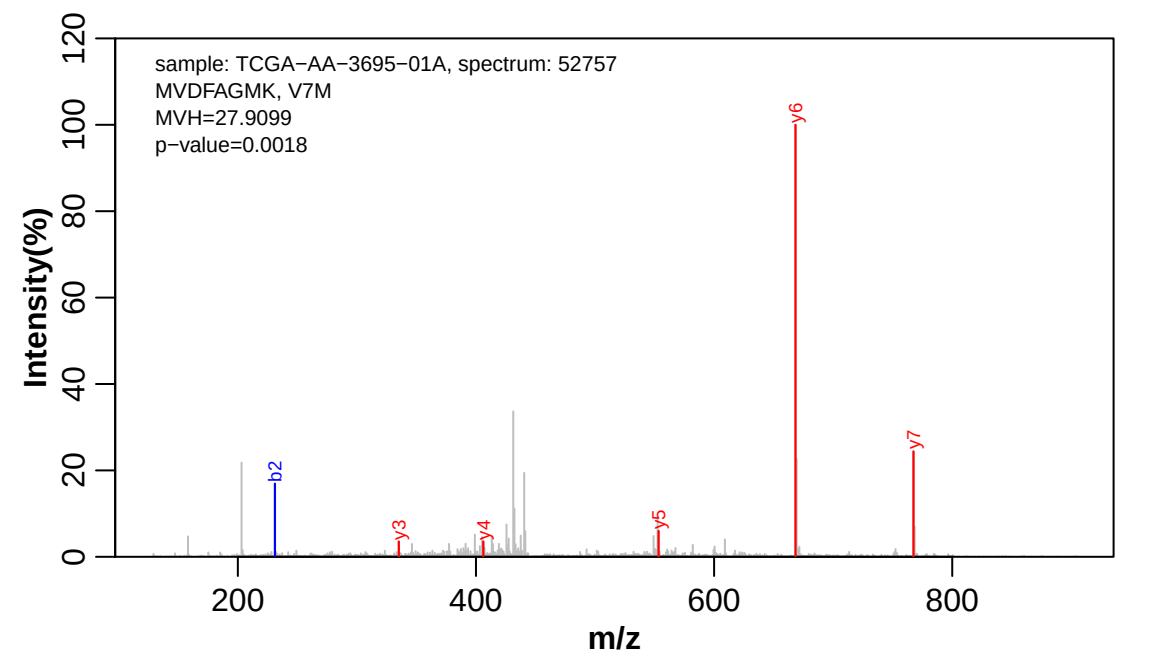

sample: TCGA−AA−3695−01A, spectrum: 21723
LQPEDMFVYDLNEK, C9Y
MVH=27.9536
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6
b7−NH3
y7−H2O
y7
b8
y8
y12

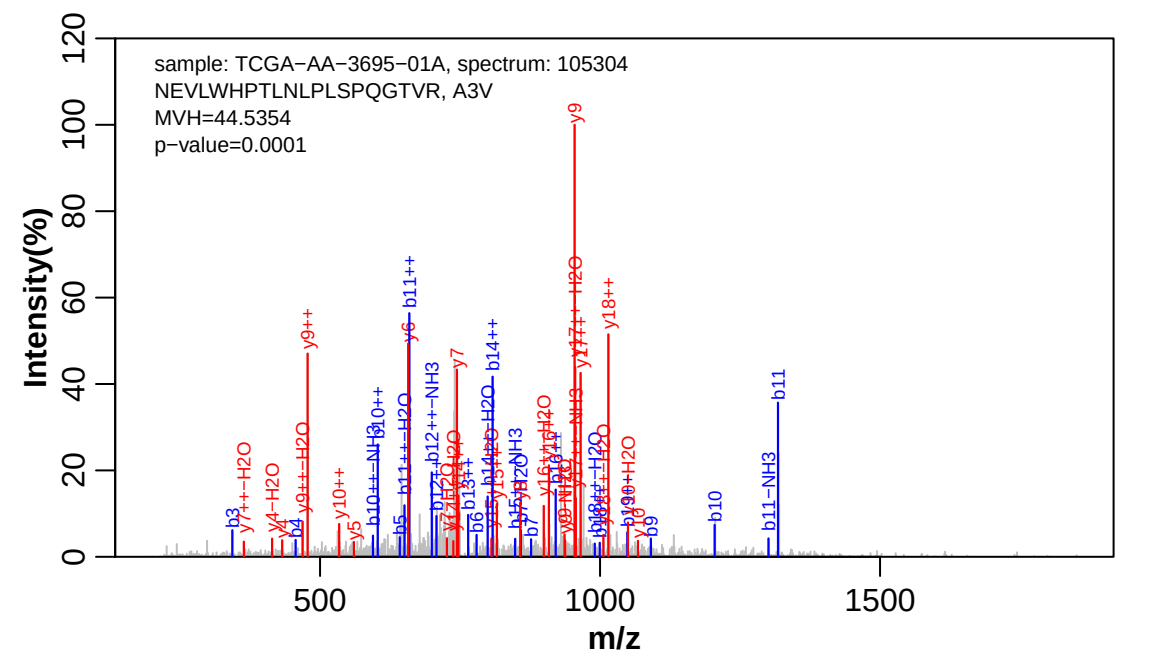

sample: TCGA−AA−3695−01A, spectrum: 97397
LSDLQEALDQALNHVR, Y14H
MVH=29.8042
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b3
y9++
y10++H2O
y10++
y11++
b12++
y12++−NH3
b13++−H2O
y13++
y14++−H2O
y14++
y7−H2O
y15++

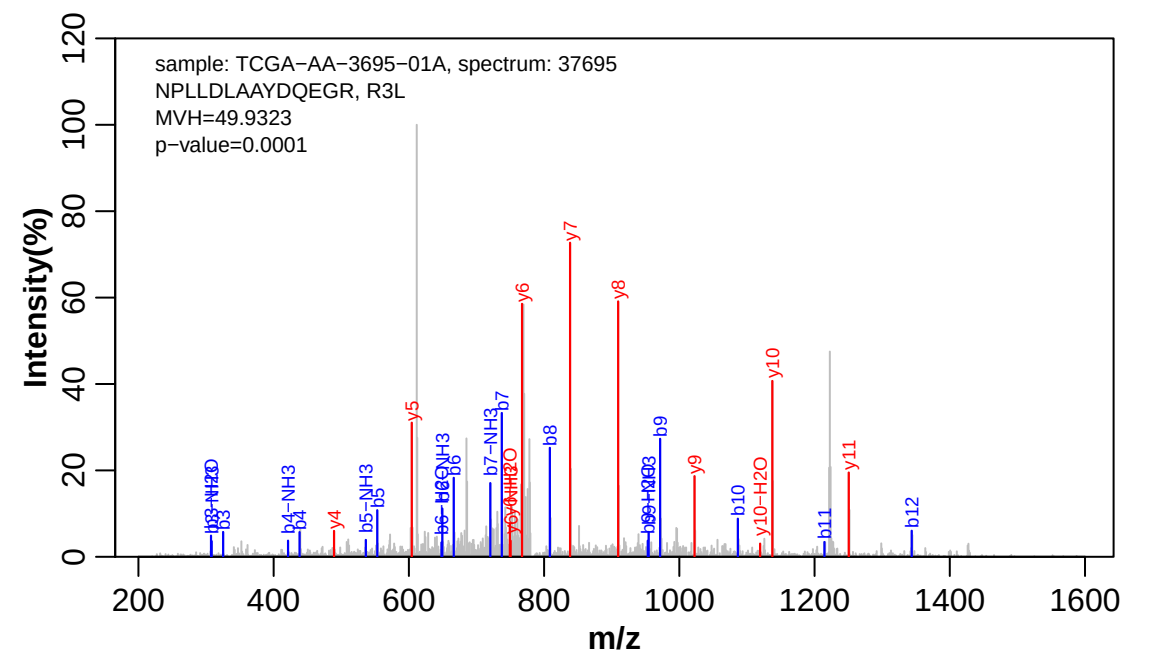

sample: TCGA−AA−3695−01A, spectrum: 94647
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=49.9048
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y19++
y25++
y21++
y22++
y23++
y18++
y16++
y14++
y12++
y10++
y9++
b5
b6
b10
b11−H2O
b12−H2O
b16++
b15
b12
b16
y13
y14

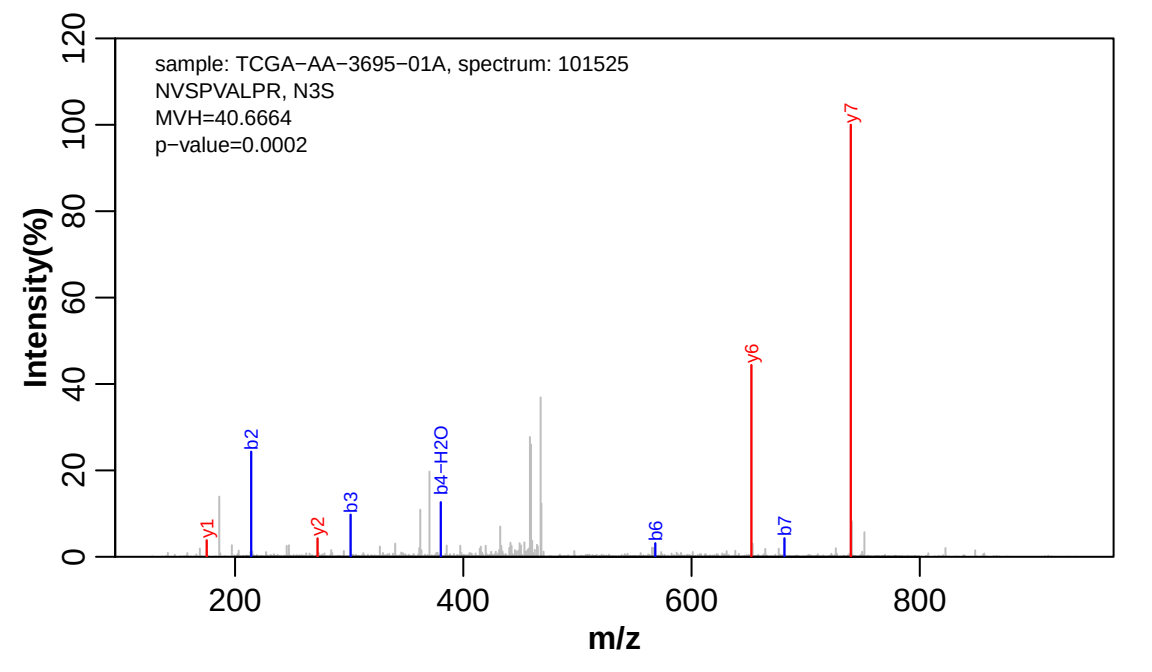

sample: TCGA−AA−3695−01A, spectrum: 112860
LTQAQLFDYSELPNFPR, G10S
MVH=44.4184
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
b6
y6
y7
y8
b9
y9
b10−NH3
y10
b11−NH3
y11
b11−H2O
b12
y12
b15

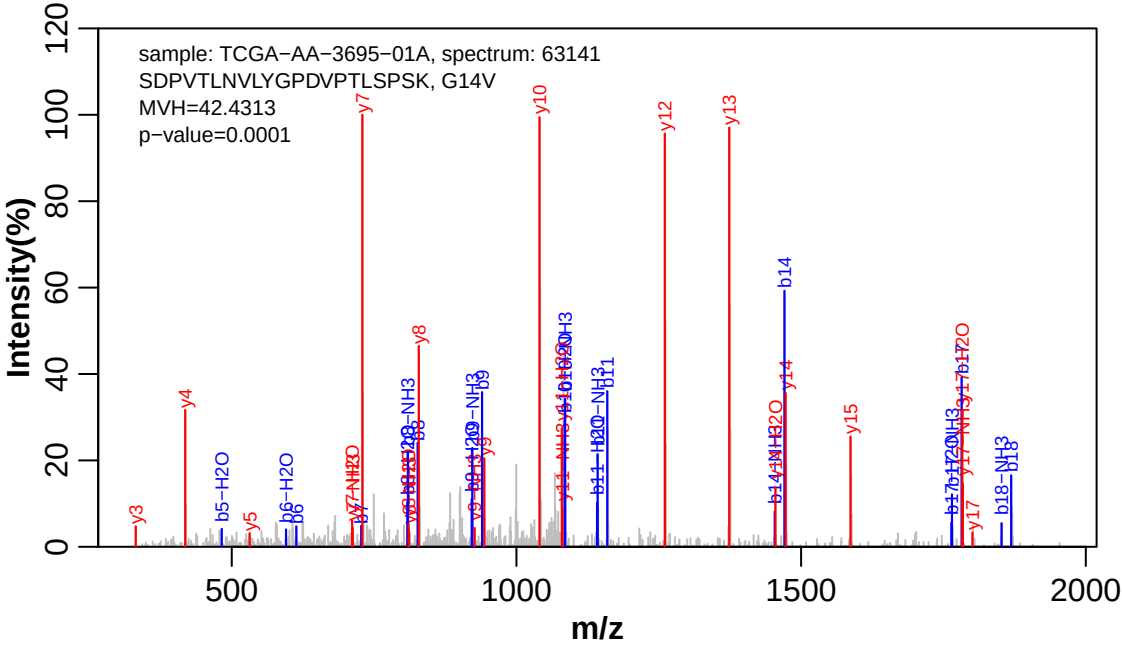

sample: TCGA−AA−3695−01A, spectrum: 19900
MQYAPNTQVELLPQGR, H16R
MVH=60.3675
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b3
b4
y6
y7
y8
b9−NH3
b9
y9
b11
y12−NH3
b12−NH3
y13
y14

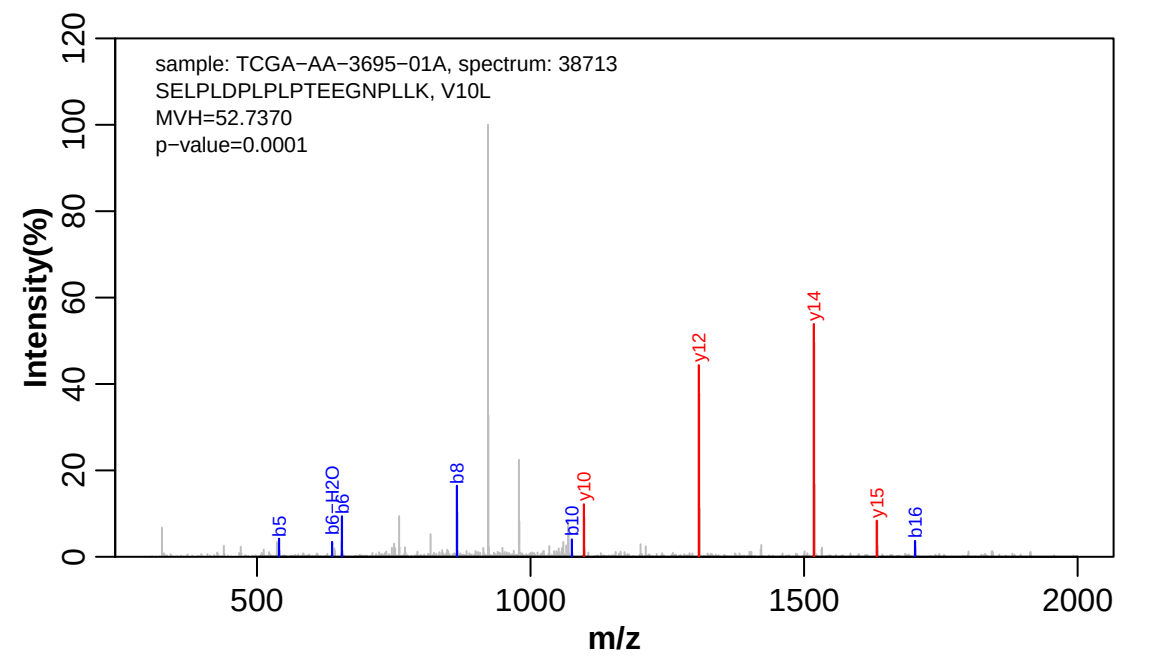

sample: TCGA−AA−3695−01A, spectrum: 52757
MVDFAGMK, V7M
MVH=27.9099
p−value=0.0018
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y3
y4
y5
y6
y7

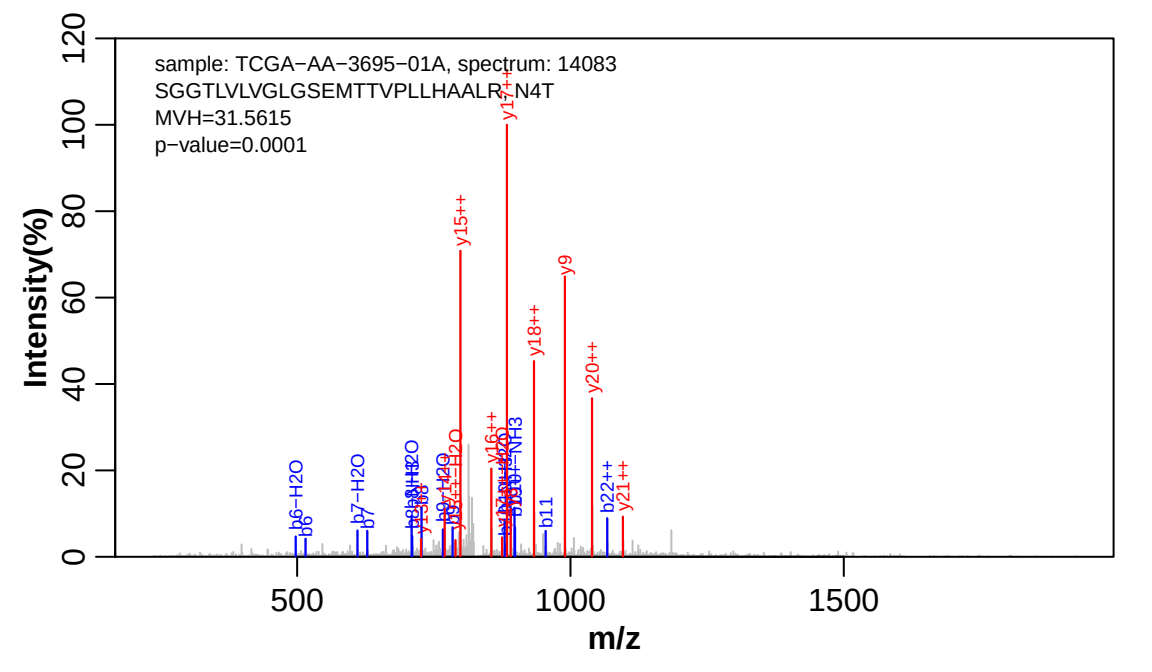

sample: TCGA−AA−3695−01A, spectrum: 105304
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=44.5354
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y7++−H2O
y4−H2O
b4
y9++−H2O
y9++
y10++
y5
b10++−NH3
b10++
b5
b11++−H2O
y6
b11++
b12++−NH3
y7
b13++
b6
b14++−H2O
b14++
y13++−H2O
b15++−NH3
b7
y16++−H2O
y16++
y15++−NH3
y17++−H2O
y9
y18++
b8++−H2O
b10++−H2O
y10
b9
b10
b11−NH3
b11

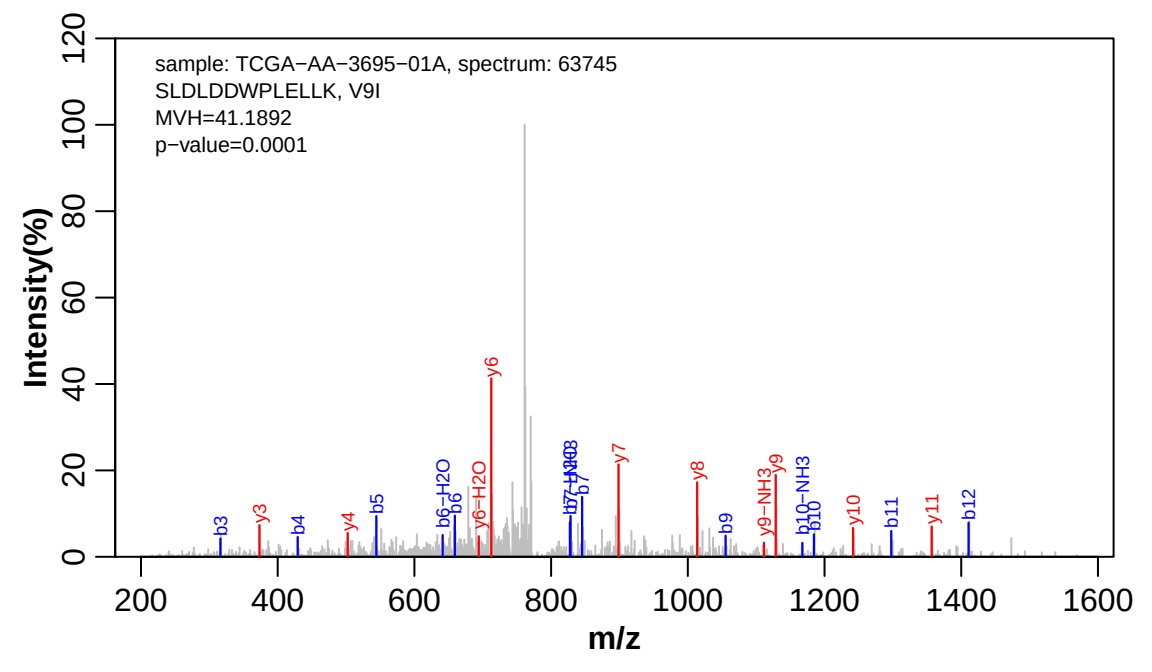

sample: TCGA−AA−3695−01A, spectrum: 37695
NPLLDLAAYDQEGR, R3L
MVH=49.9323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y5
y6
y7
y8
y9
y10
y11
y10−H2O
b4−NH3
b5−NH3
b7−NH3
b8
b9
b10
b11
b12

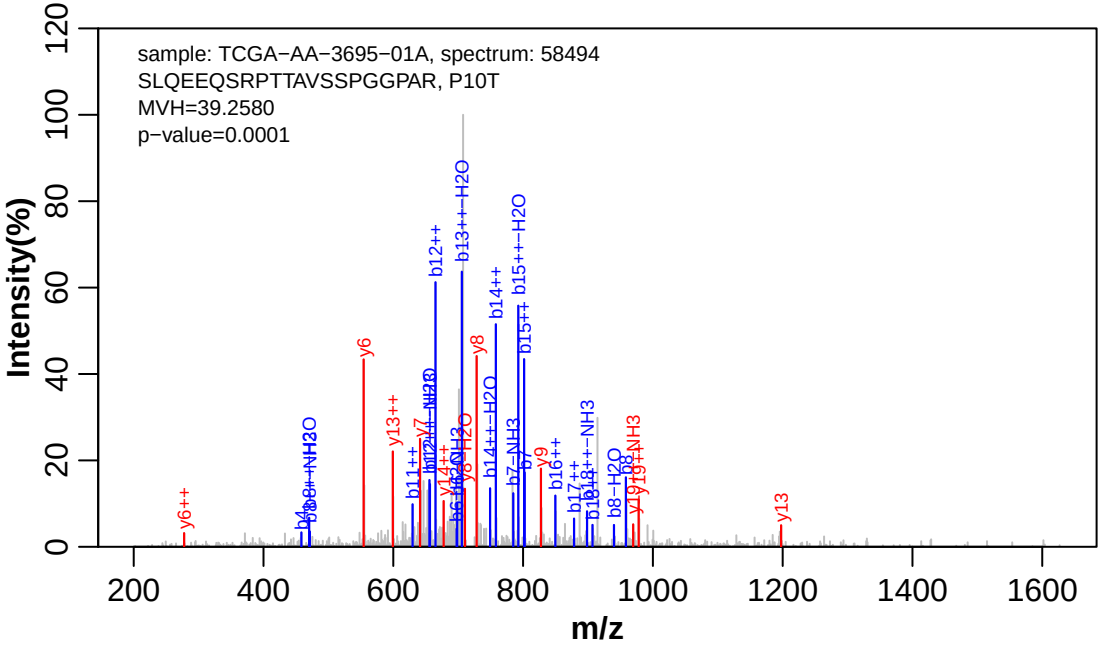

sample: TCGA−AA−3695−01A, spectrum: 101525
NVSPVALPR, N3S
MVH=40.6664
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
b4−H2O
b6
y6
b7
y7

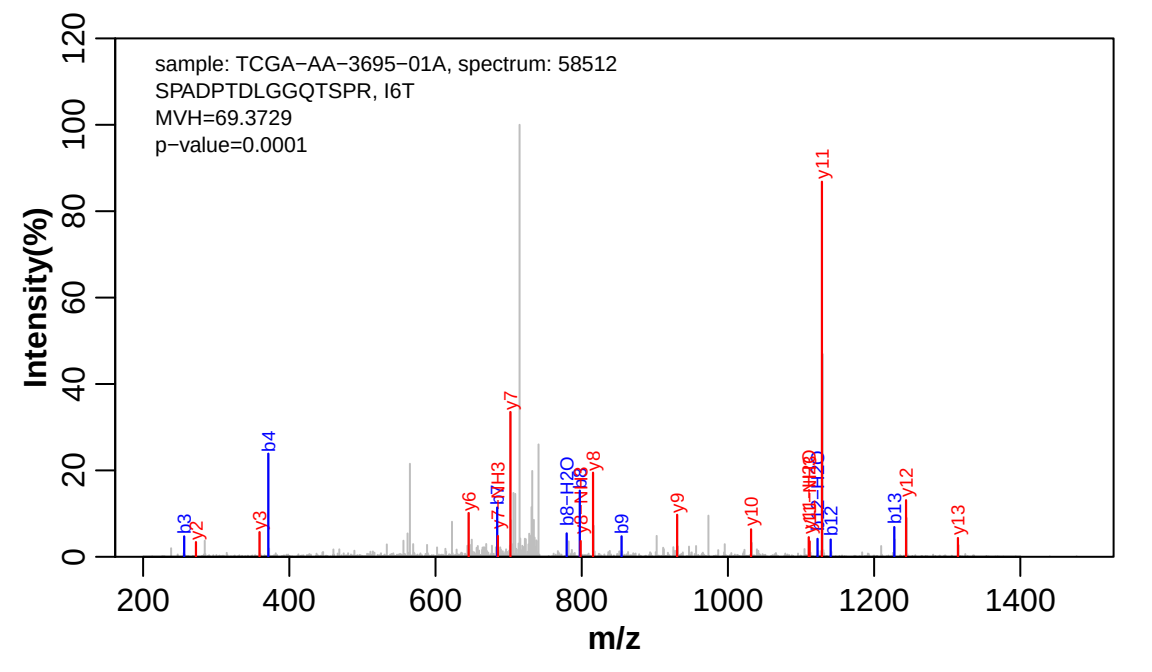

sample: TCGA−AA−3695−01A, spectrum: 63141
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=42.4313
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b5−H2O
y5
b6−H2O
y7
y8
b14
y10
y12
y13
y14
y15
y17
b18−NH3

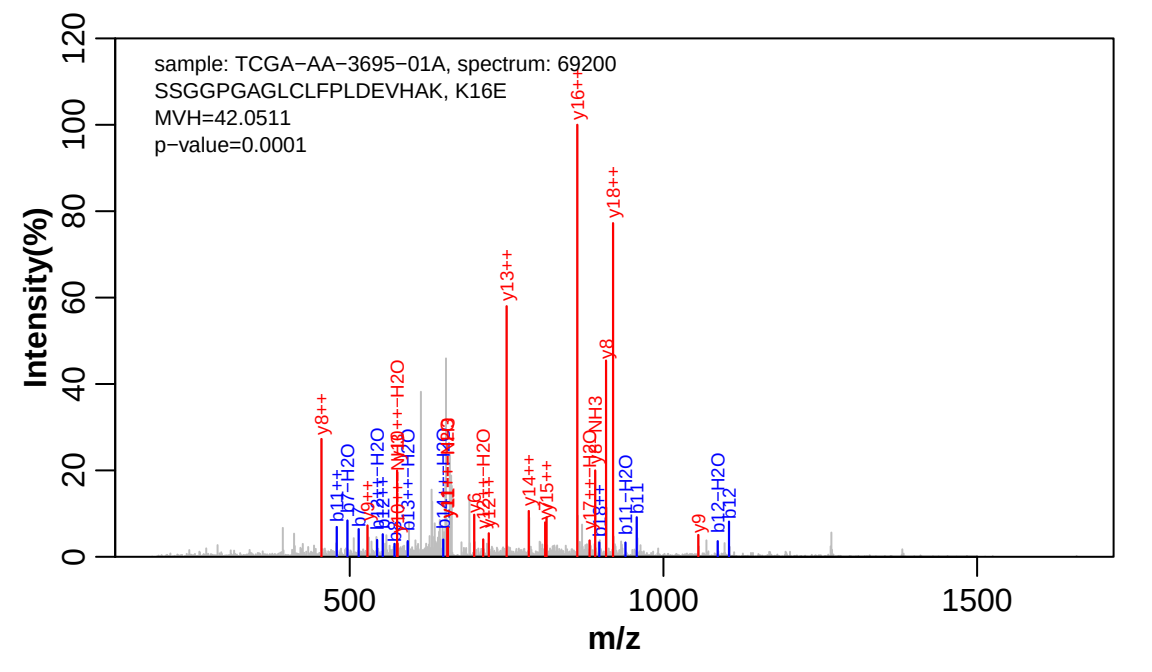

sample: TCGA−AA−3695−01A, spectrum: 38713
SELPLDPLPLPTEEGNPLLK, V10L
MVH=52.7370
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6−H2O
b6
b8
b10
y10
y12
y14
y15
b16

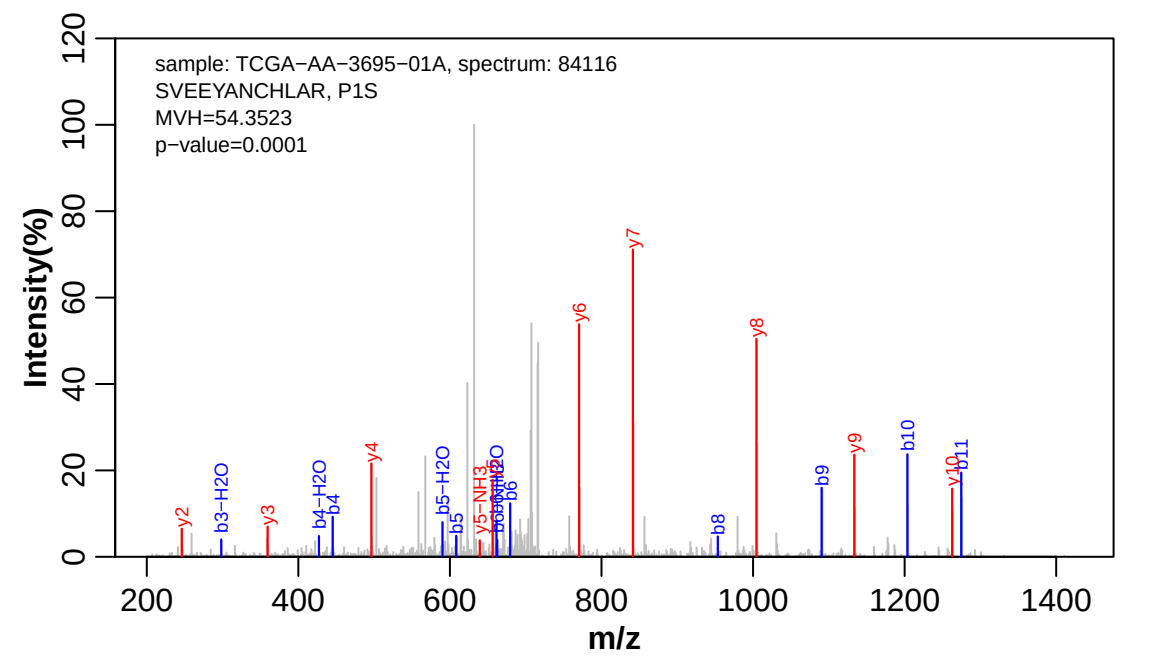

sample: TCGA−AA−3695−01A, spectrum: 14083
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=31.5615
p−value=0.0001
Intensity(%)
m/z
y17++
y15++
y9
y18++
y20++
y21++
b22++
b11
b6−H2O
b7−H2O
y16++
y16++−NH3
0
20
40
60
80
100
120
500
1000
1500

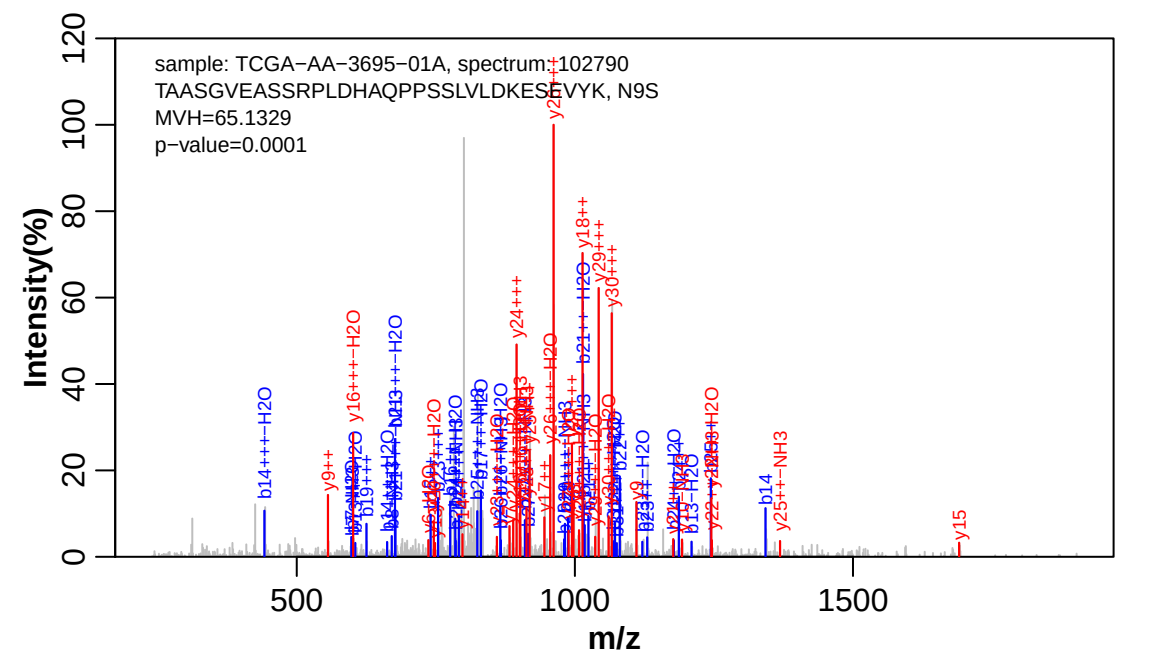

sample: TCGA−AA−3695−01A, spectrum: 63745
SLDLDDWPLELLK, V9I
MVH=41.1892
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y4
b5
b6−H2O
b6
y6−H2O
y6
y7
y8
b9
y9−NH3
y9
b10−NH3
b10
y10
b11
y11
b12

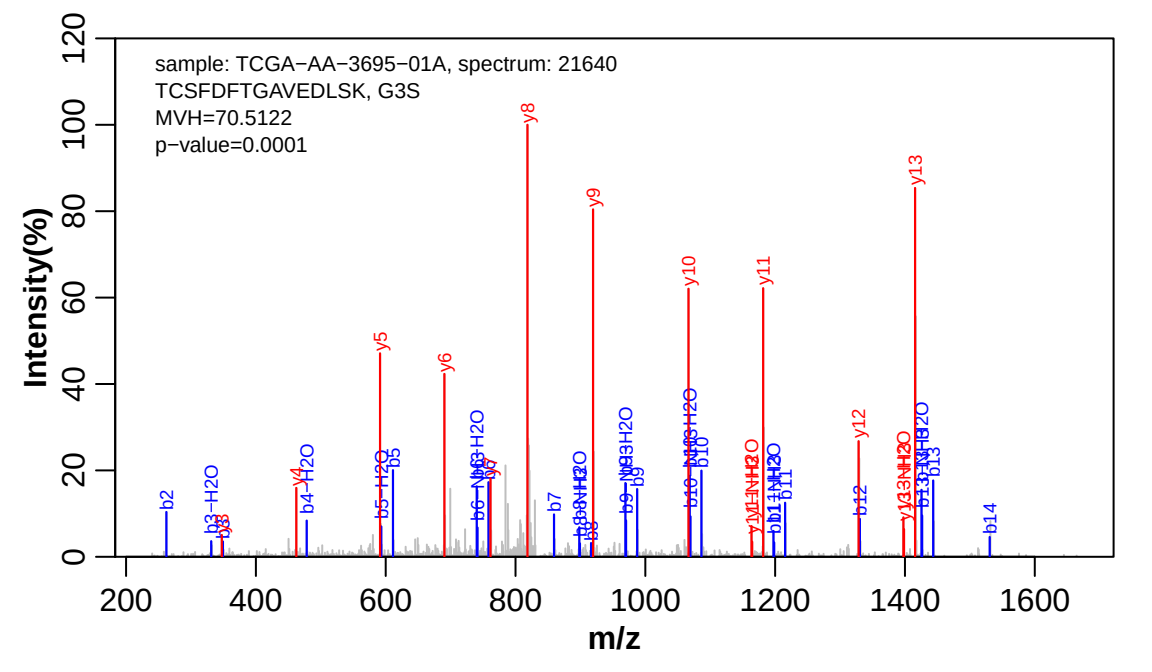

sample: TCGA−AA−3695−01A, spectrum: 58494
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=39.2580
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6++
y6
y13++
b11++
b12++
b13++−H2O
b14++
b14++−H2O
b15++−H2O
y8
y9
b16++
b17++
b18++−NH3
b8−H2O
y19++−NH3
y13

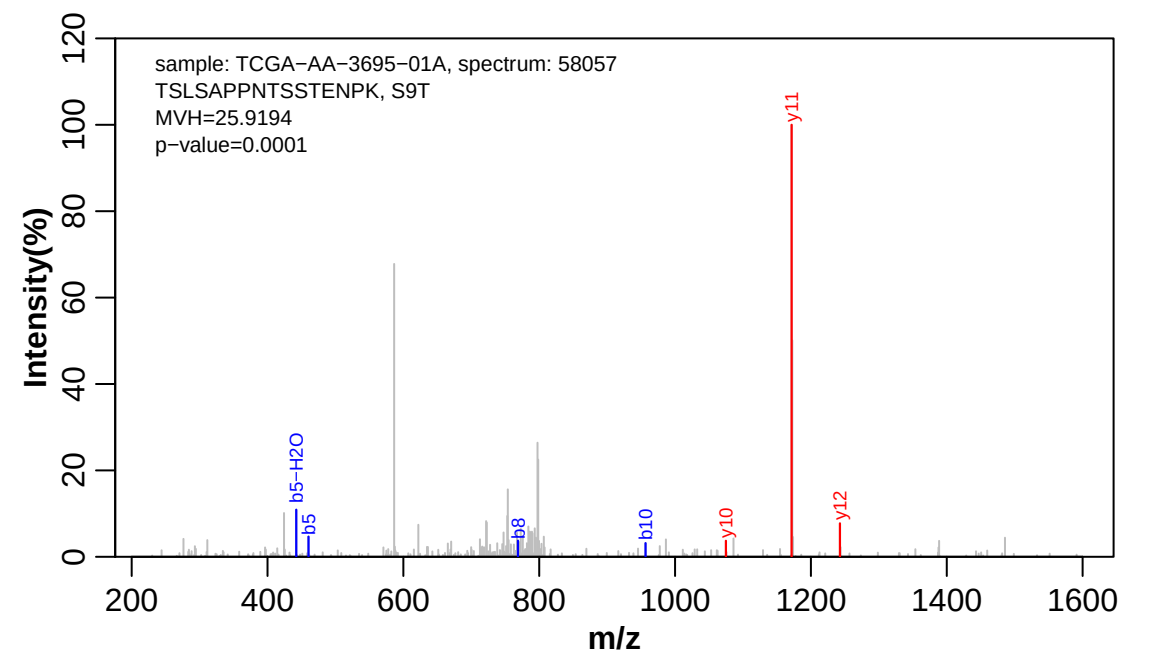

sample: TCGA−AA−3695−01A, spectrum: 58512
SPADPTDLGGQTSPR, I6T
MVH=69.3729
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y6
y7
y7−NH3
y7
b8−H2O
y8−NH3
y8
b9
y9
y10
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

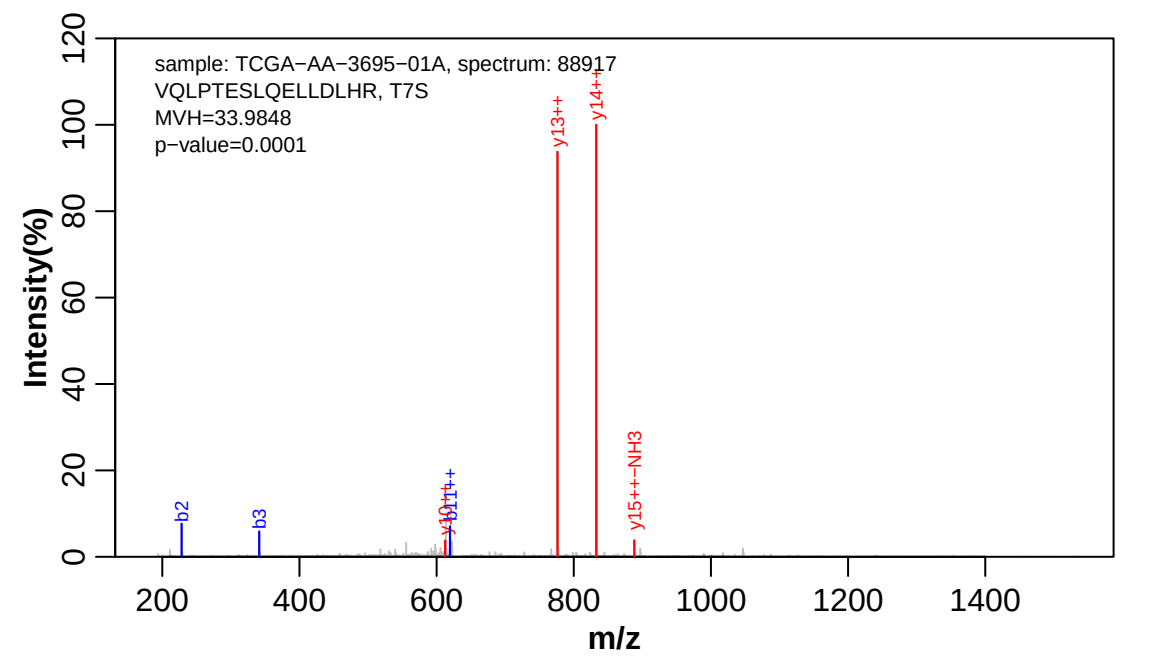

sample: TCGA−AA−3695−01A, spectrum: 69200
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=42.0511
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y18++
y8
y13++
y8++
y14++
y15++
y9
b12−H2O
b11−H2O
y8++−NH3
y8++−H2O
b11++−H2O
b13++−H2O
y12++−H2O
b7−H2O
b11++
b12++
b7
y6
y9++

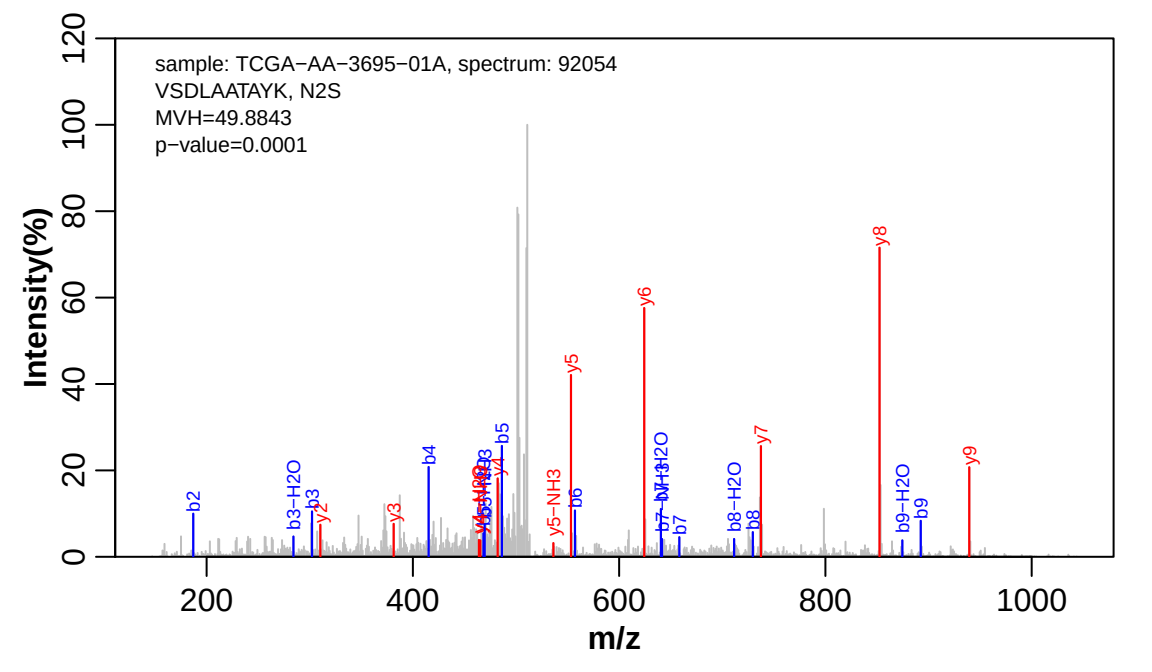

sample: TCGA−AA−3695−01A, spectrum: 84116
SVEEYANCHLAR, P1S
MVH=54.3523
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
b6
y6
y7
b8
y8
b9
y9
b10
y10
b11

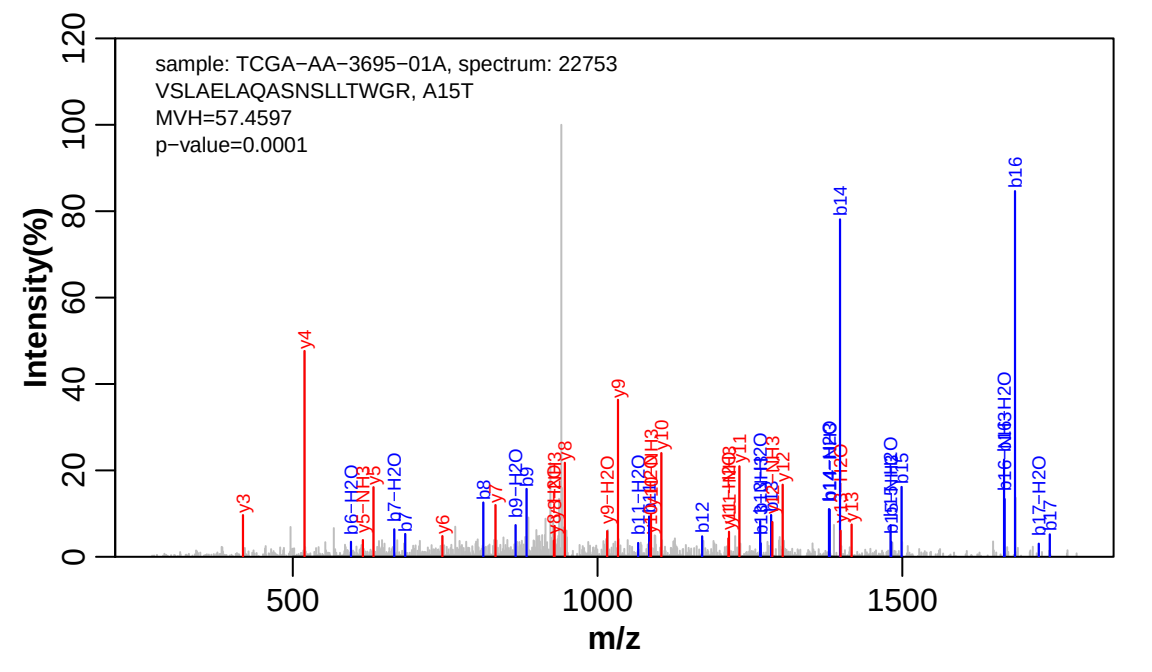

sample: TCGA−AA−3695−01A, spectrum: 102790
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=65.1329
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b14+++−H2O
y9++
y16+++−H2O
b19+++
y13+++−H2O
y24+++
y26+++−H2O
y25+++
b21++−H2O
y18++
y29+++
y30+++
b14
y25++−NH3
y15

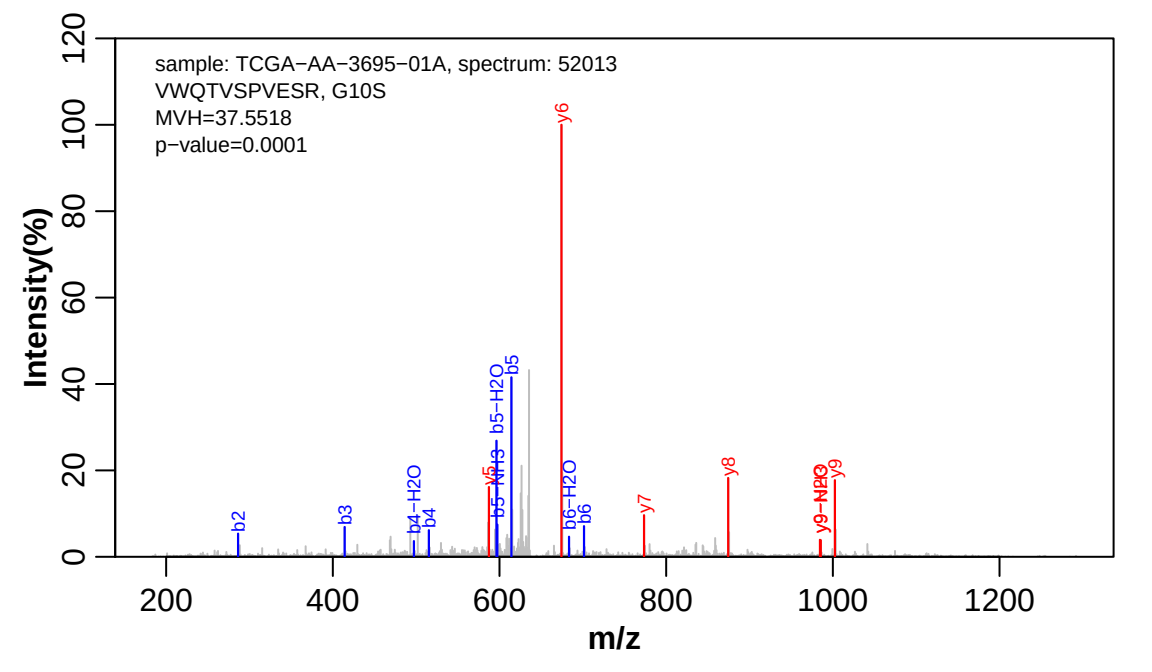

sample: TCGA−AA−3695−01A, spectrum: 21640
TCSFDFTGAVEDLSK, G3S
MVH=70.5122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b3
y4
b4−H2O
y5
b5−H2O
b5
y6
b6−NH3
b6−H2O
b7
b8−NH3
b8−H2O
b8
y8
y9
b9−NH3
b9−H2O
b9
y10
b10−NH3
b10−H2O
b10
y11
y11−NH3
y11−H2O
b11−NH3
b11−H2O
b11
y12
b12
y13
y13−NH3
y13−H2O
b13−NH3
b13−H2O
b13
b14

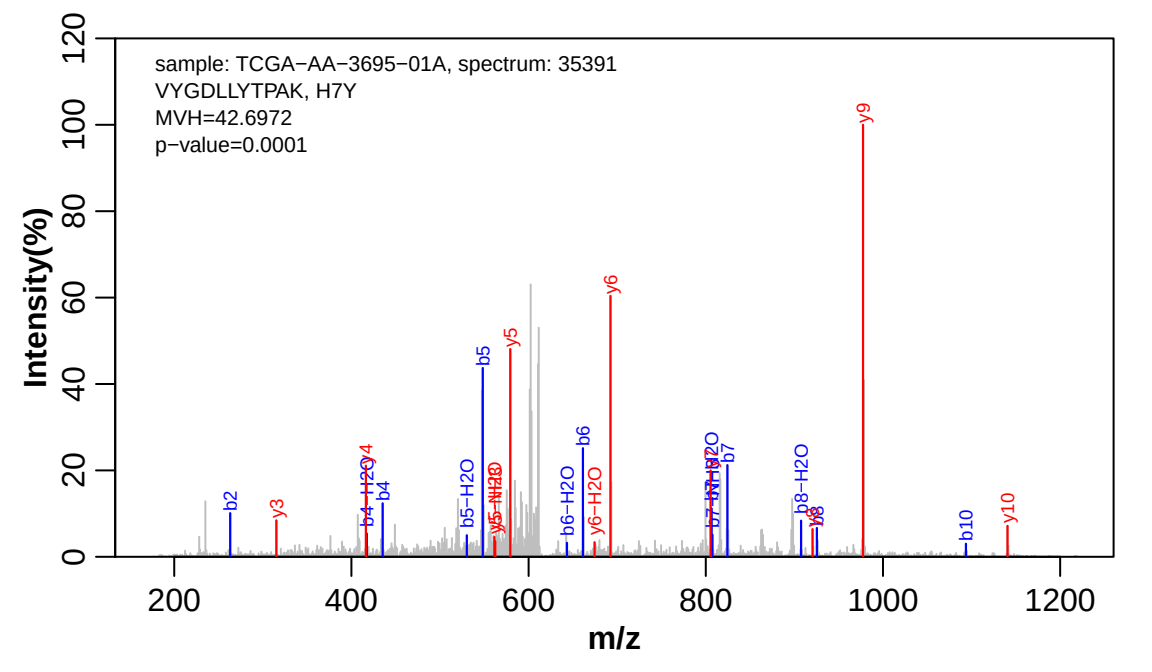

sample: TCGA−AA−3695−01A, spectrum: 58057
TSLSAPPNTSSTENPK, S9T
MVH=25.9194
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
b8
b10
y10
y11
y12

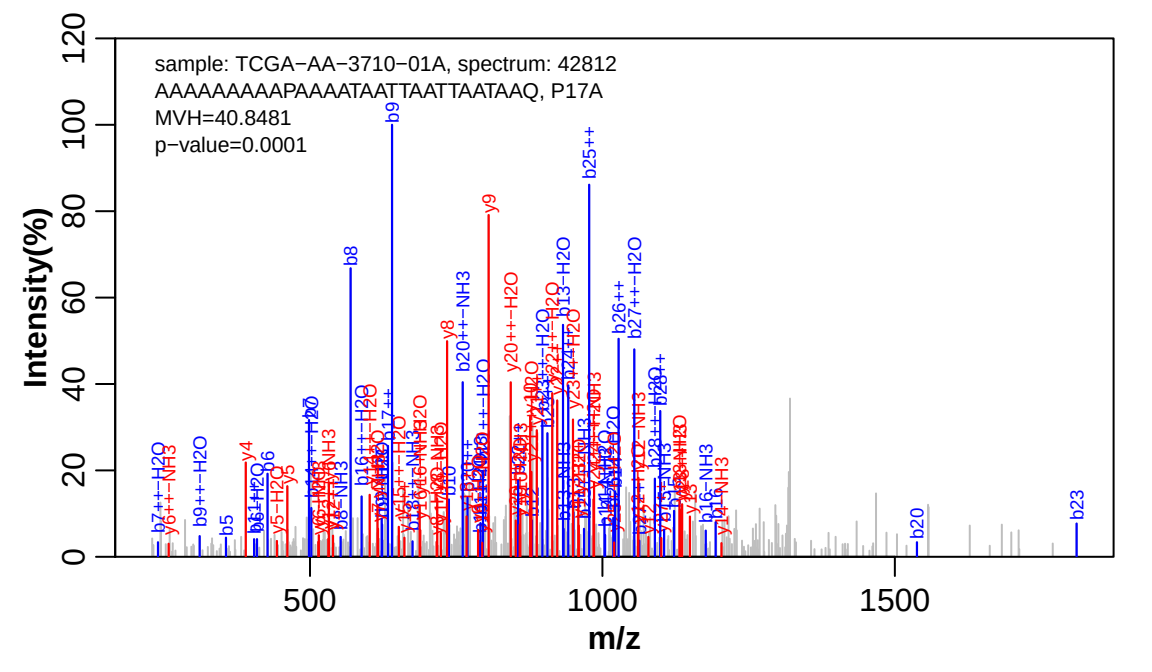

sample: TCGA−AA−3695−01A, spectrum: 88917
VQLPTESLQELLDLHR, T7S
MVH=33.9848
p−value=0.0001
y13++
y14++
b2
b3
y10++
b11++
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

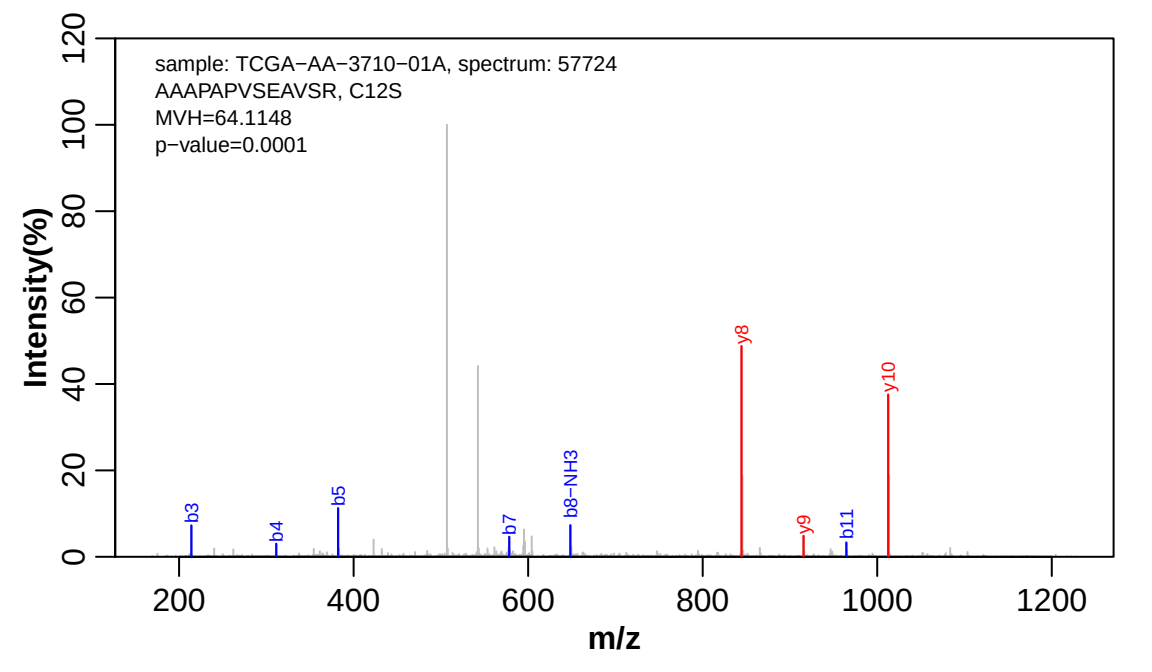

sample: TCGA−AA−3695−01A, spectrum: 92054
VSDLAATAYK, N2S
MVH=49.8843
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5
y4
y5−NH3
y5
b6
y6
b7
b8−H2O
b8
y7
y8
b9−H2O
b9
y9

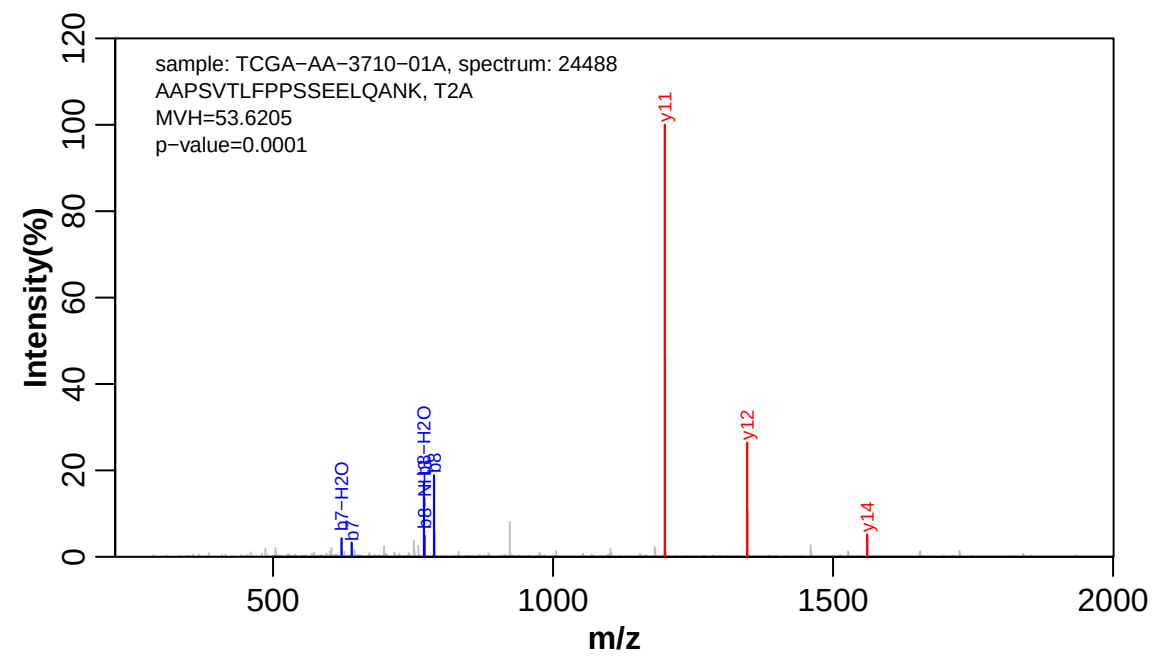

sample: TCGA−AA−3695−01A, spectrum: 22753
VSLAELAQASNSLLTWGR, A15T
MVH=57.4597
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
b6−H2O
b7−H2O
b8
b9
b9−H2O
y9−H2O
b11−H2O
b12
b14
b15
b16
b17−H2O

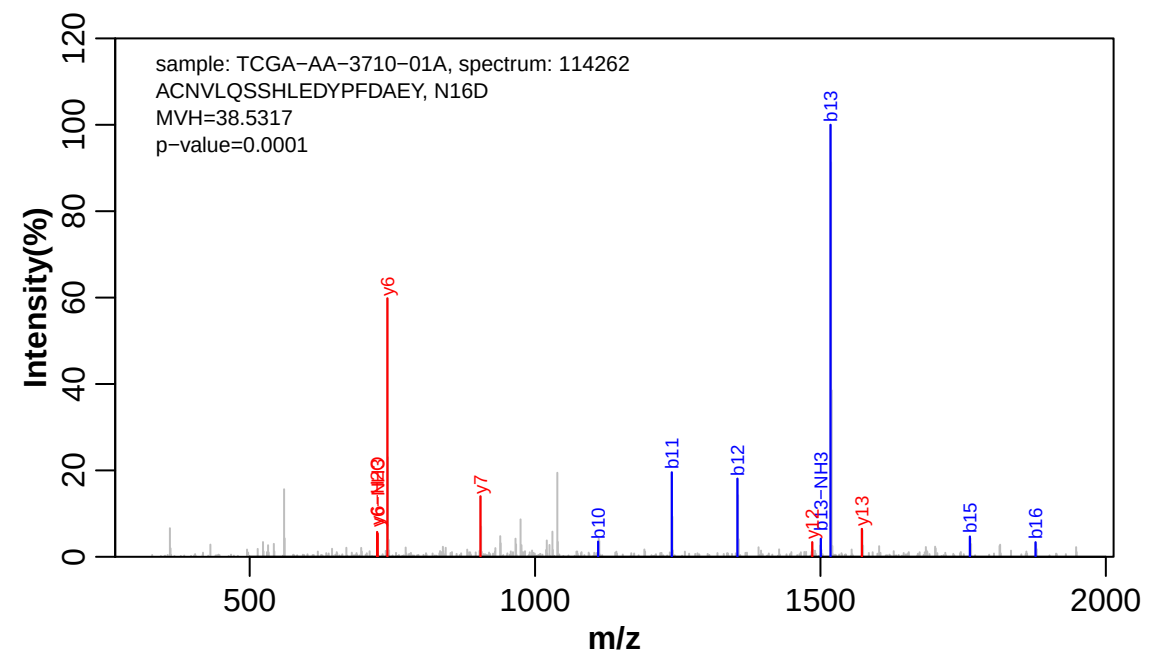

sample: TCGA−AA−3695−01A, spectrum: 52013
VWQTVSPVESR, G10S
MVH=37.5518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4−H2O
b4
y5
b5−NH3
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9−NH3
y9
y9−H2O

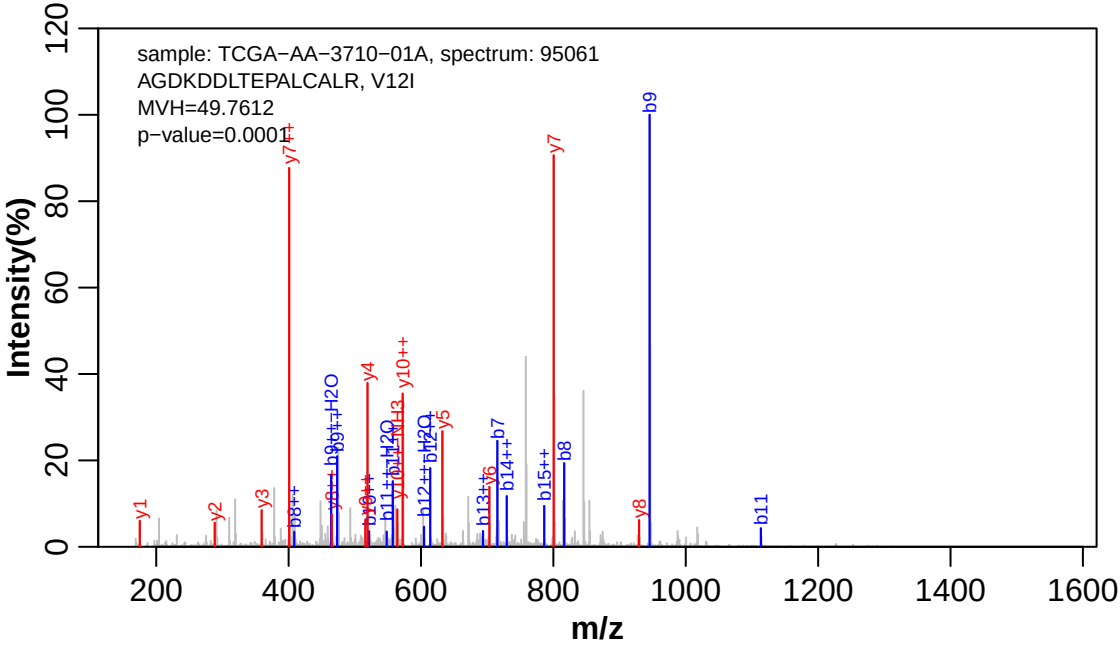

sample: TCGA−AA−3695−01A, spectrum: 35391
VYGDLLYTPAK, H7Y
MVH=42.6972
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4
b4
b5−H2O
b5
y5
b6−H2O
b6
y6−H2O
y6
b7
b8−H2O
y9
b10
y10

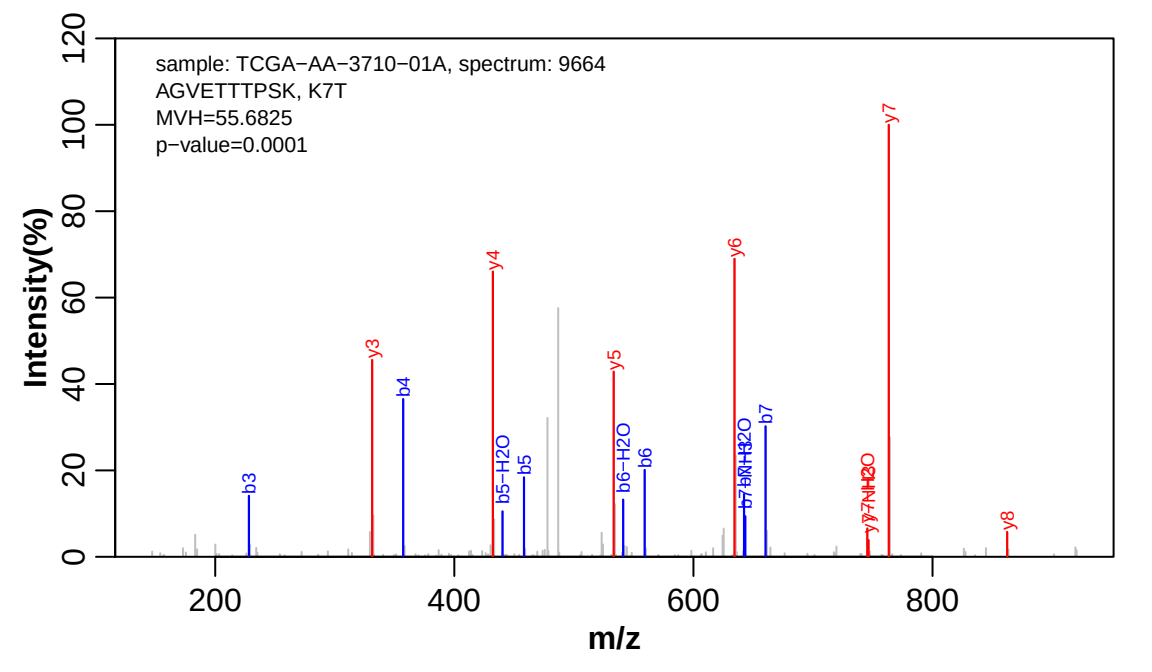

sample: TCGA−AA−3710−01A, spectrum: 42812
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=40.8481
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b25++
y9
b8
y8
b20++−NH3
y20++−H2O
b26++
b27++−H2O
b23
b20
b5
y4
y5
b9++−H2O
b7++−H2O
b16−NH3
y16−NH3

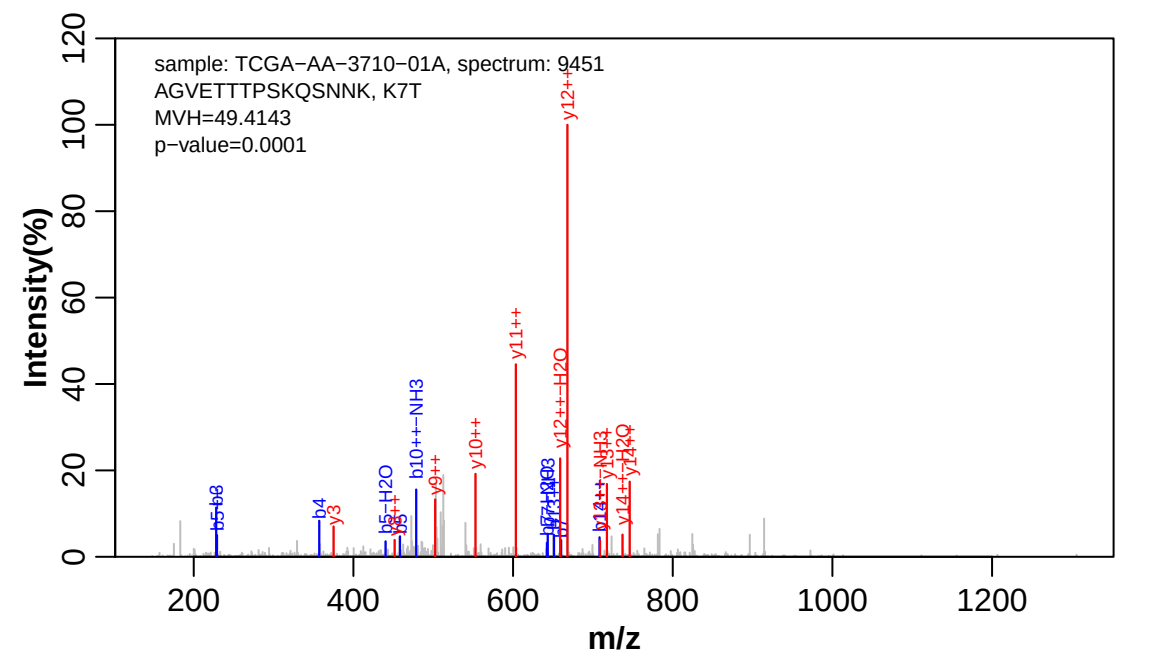

sample: TCGA−AA−3710−01A, spectrum: 57724
AAAPAPVSEAVSR, C12S
MVH=64.1148
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b4
b5
b7
b8−NH3
y8
y9
b11
y10

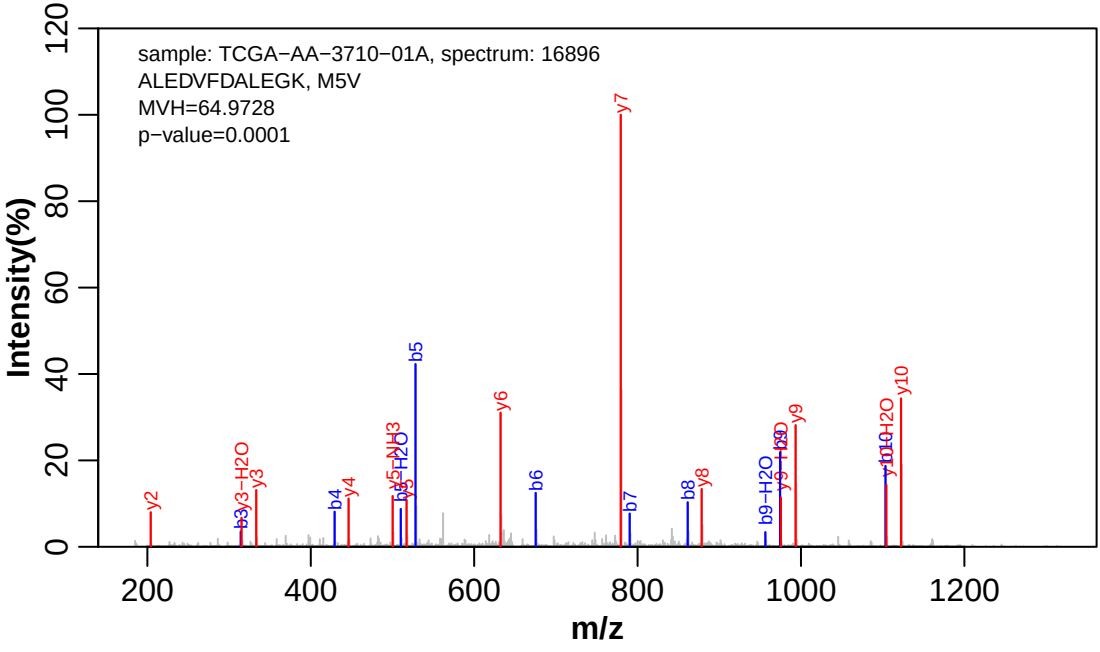

sample: TCGA−AA−3710−01A, spectrum: 24488
AAPSVTLFPPSSEELQANK, T2A
MVH=53.6205
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

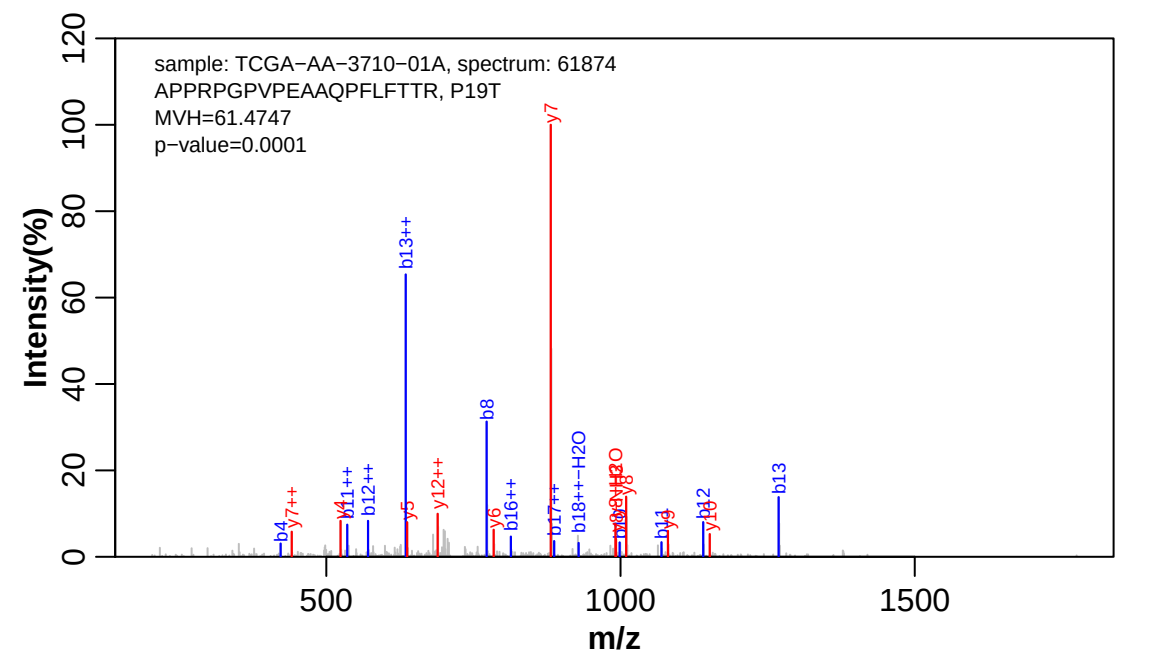

sample: TCGA−AA−3710−01A, spectrum: 114262
ACNVLQSSHLEDYPFDAEY, N16D
MVH=38.5317
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y6
y7
b10
b11
b12
b13
b13−NH3
y13
b15
b16

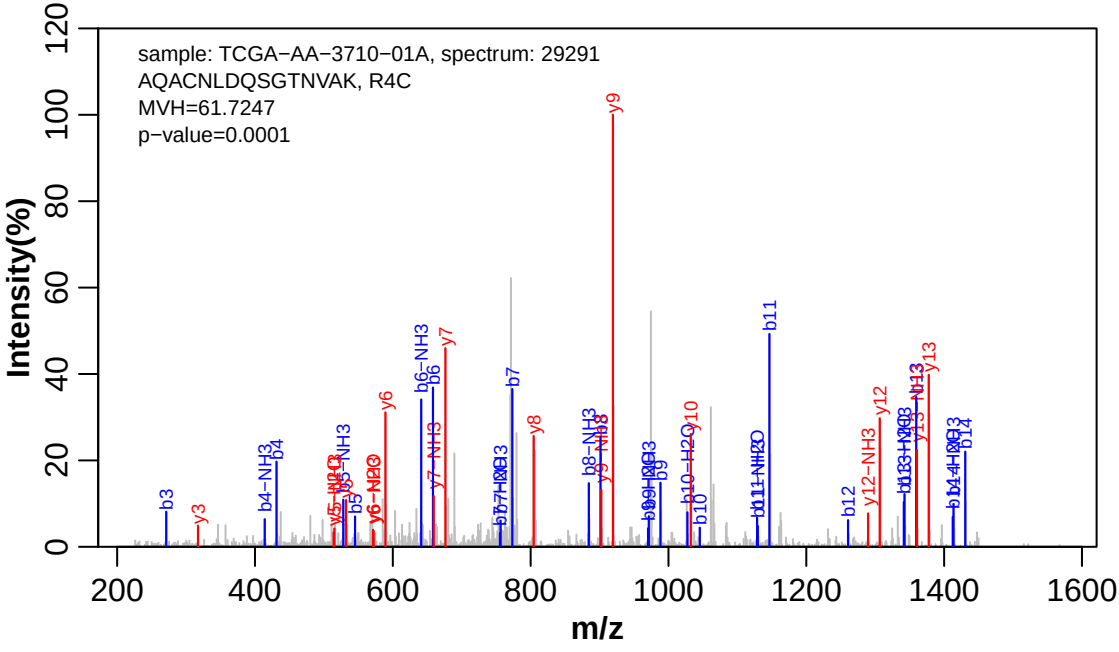

sample: TCGA−AA−3710−01A, spectrum: 95061
AGDKDDLTEPALCALR, V12I
MVH=49.7612
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y1
y2
y3
b8++
y7++
y8++
b9++
b9++−H2O
y4
b10++
b11++−H2O
y10++
y10++−NH3
b12++−H2O
y5
b12++
b13++
y6
b14++
b7
b15++
b8
y7
b9
y8
b11

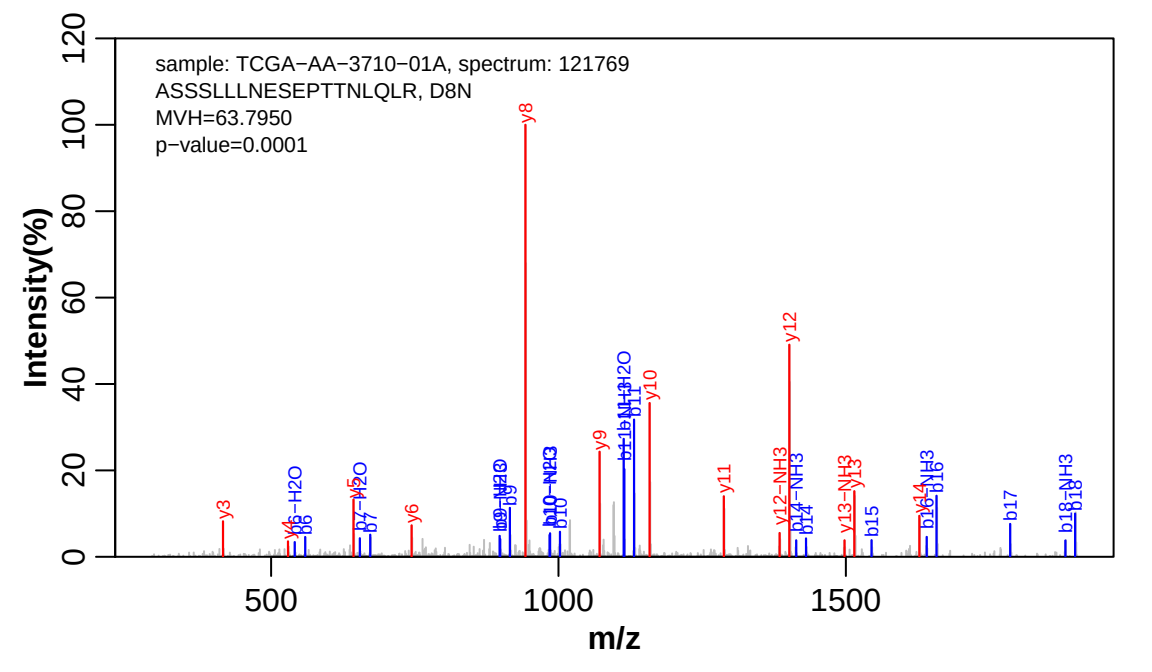

sample: TCGA−AA−3710−01A, spectrum: 9664
AGVETTTPSK, K7T
MVH=55.6825
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7
y7
y8

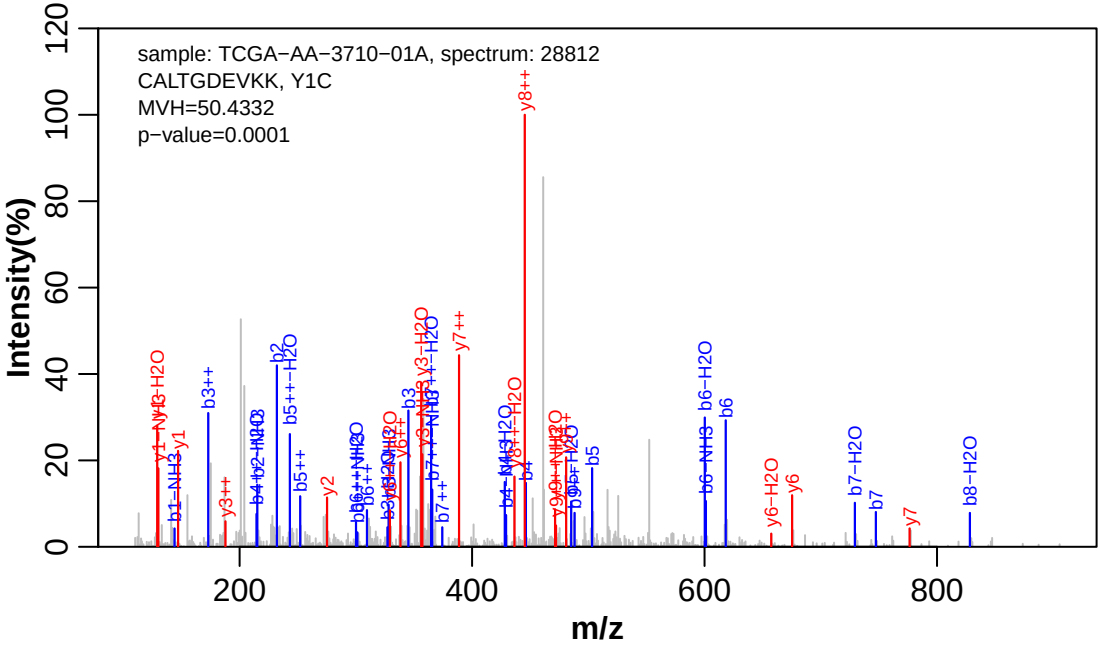

sample: TCGA−AA−3710−01A, spectrum: 9451
AGVETTTPSKQSNNK, K7T
MVH=49.4143
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y11++
y12++−H2O
y12++−NH3
y14++H2O
y10++
b10++−NH3
y9++
b4
y3
b5−H2O
b5−NH3
b5
b8

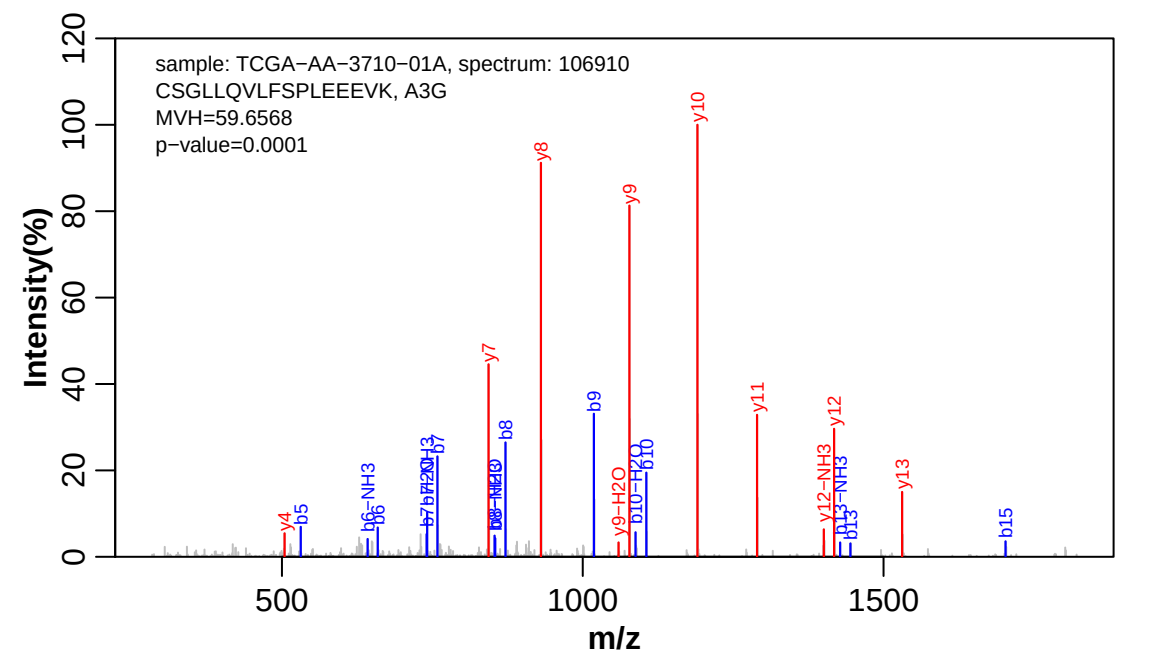

sample: TCGA−AA−3710−01A, spectrum: 16896
ALEDVFDALEGK, M5V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5−NH3
b5−H2O
b5
y5
y6
b6
b7
y7
b8
y8
b9−H2O
y9−H2O
y9
y10−H2O
y10

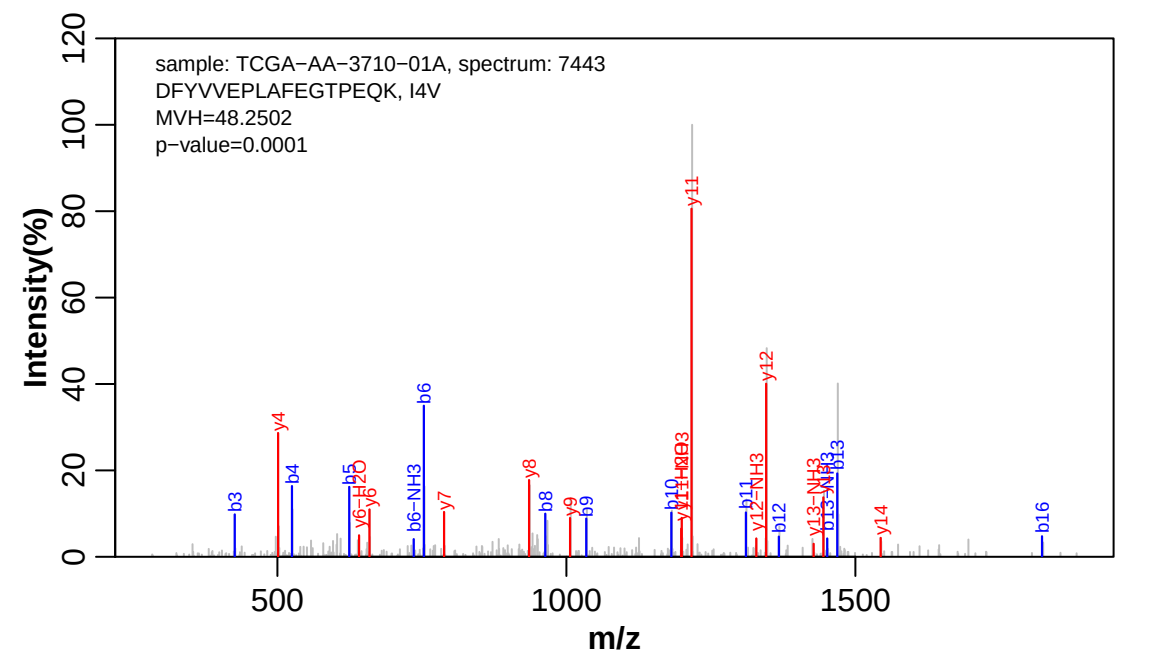

sample: TCGA−AA−3710−01A, spectrum: 61874
APPRPGPVPEAAQPFLFTTR, P19T
MVH=61.4747
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y7++
y4
b11++
b12++
y5
b13++
y12++
b8
y6
b16++
b17++
b18++−H2O
y8
b13
y10
y7

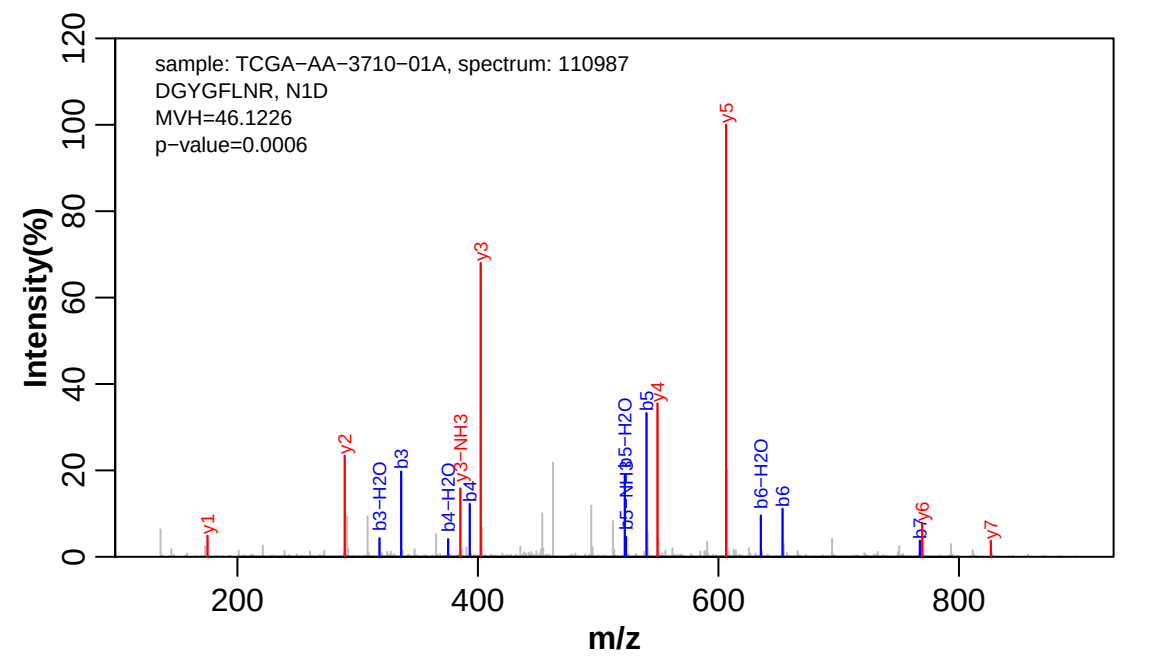

sample: TCGA−AA−3710−01A, spectrum: 29291
AQACNLDQSGTNVAK, R4C
MVH=61.7247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4−NH3
b4
y5−NH3
y5
b5−NH3
b5
y6−NH3
y6
b6−NH3
b6
y7−NH3
y7
b7
y8
b8−NH3
y9−NH3
y9
b9
b10−H2O
y10
b10
b11
b12
y12−NH3
y12
y13−NH3
y13
b14

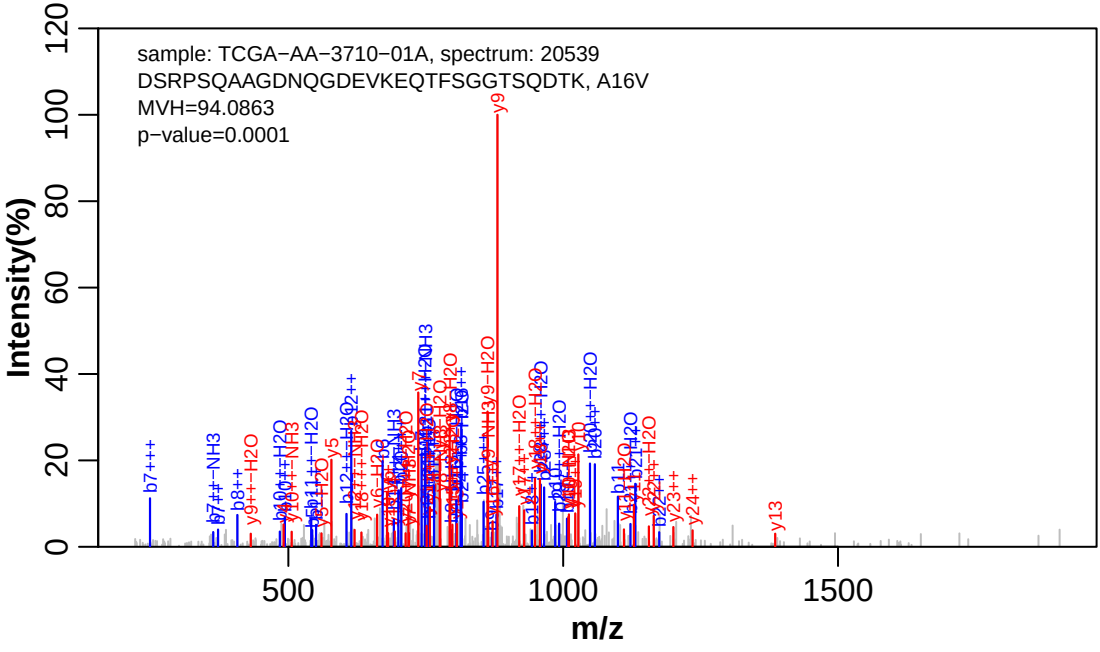

sample: TCGA−AA−3710−01A, spectrum: 121769
ASSSLLLNESEPTTNLQLR, D8N
MVH=63.7950
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y8
y6
y9
y10
y11
y12
y13
b15
b17
b18
b18−NH3
y12−NH3
y13−NH3
b14−NH3
b16−NH3
y6−H2O
y5−H2O
b11−H2O
b10−NH3
b9−NH3

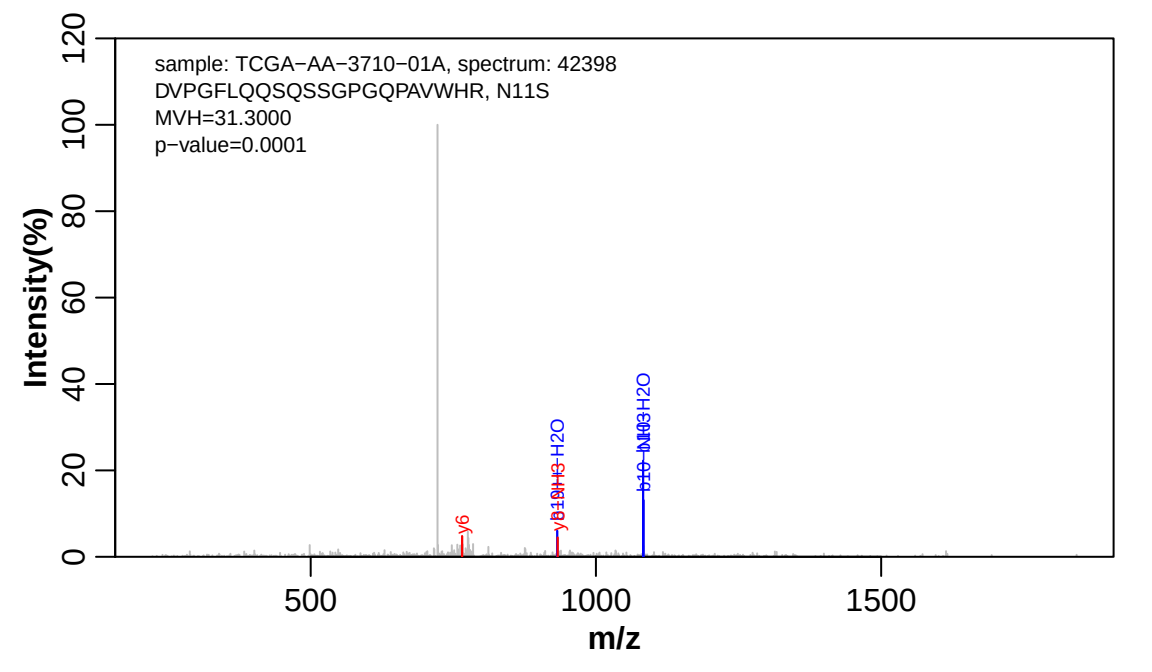

sample: TCGA−AA−3710−01A, spectrum: 28812
CALTGDEVKK, Y1C
MVH=50.4332
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y8++
y7++
y3++
y2
y6−H2O
y6
y7
b3++
b5++−H2O
b5++
b6−H2O
b6
b7−H2O
b7
b8−H2O
b5

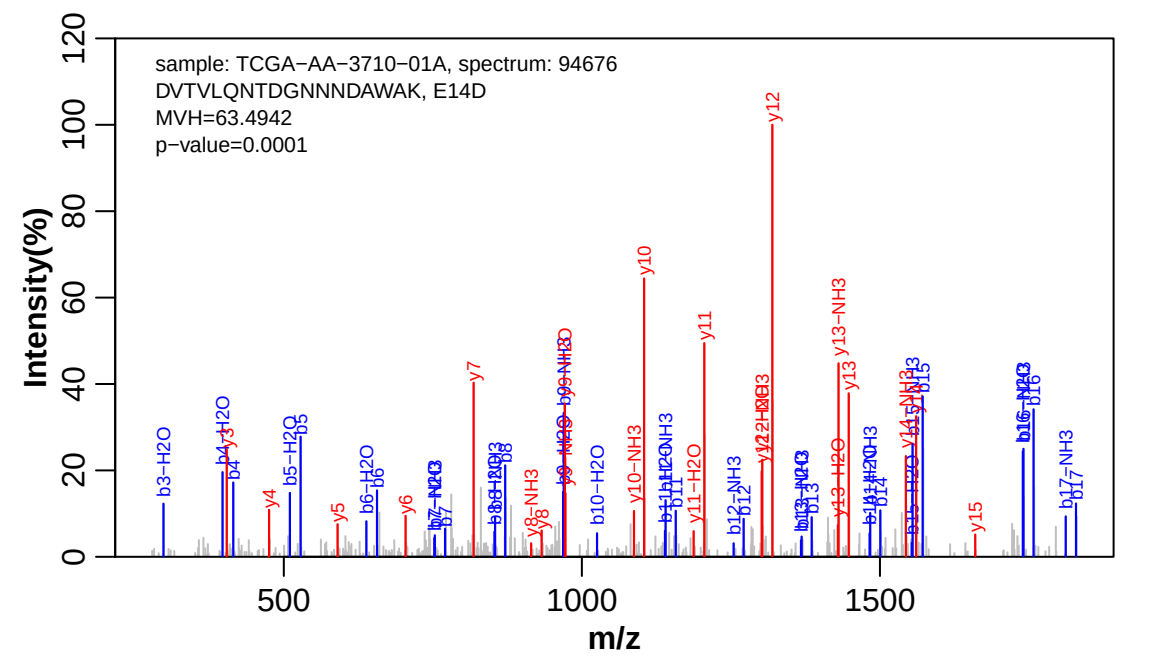

sample: TCGA−AA−3710−01A, spectrum: 106910
CSGLLQVLFSPLEEEVK, A3G
MVH=59.6568
p−value=0.0001
Intensity(%)
m/z
y10
y8
y9
y7
y11
y12
y13
b9
b15
y4
b5
b6
b6−NH3
b7
b8
b10
y9−H2O
y12−NH3
b13−NH3

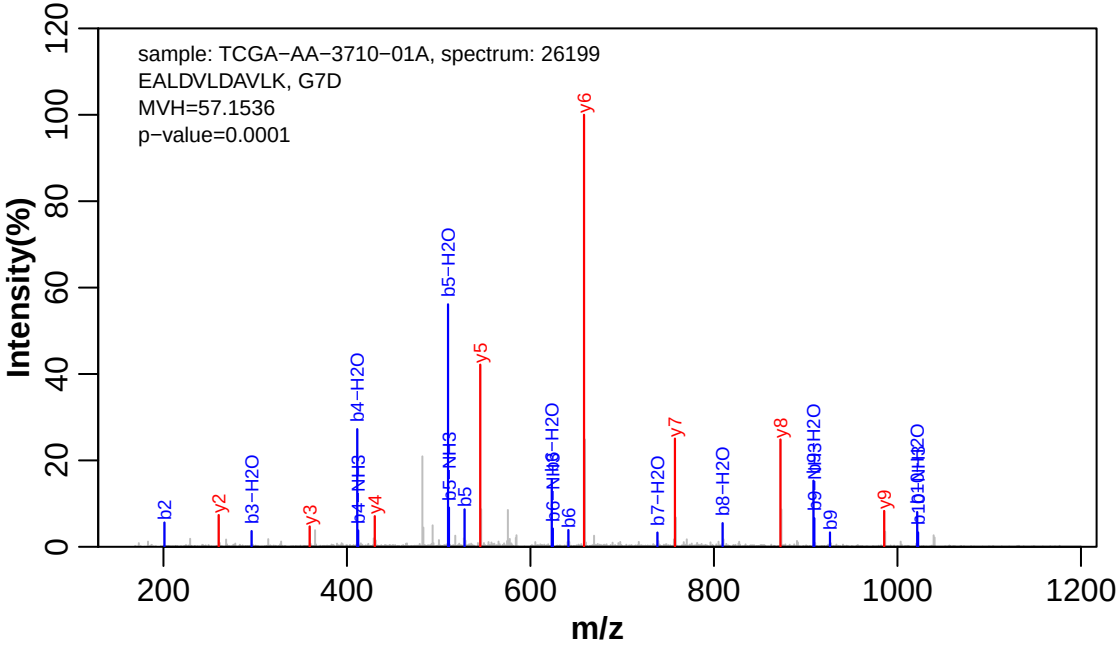

sample: TCGA−AA−3710−01A, spectrum: 7443
DFYVVEPLAFEGTPEQK, I4V
MVH=48.2502
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6−H2O
y6
b6−NH3
b6
y7
y8
b8
y9
b9
b10
y11−NH3
y11−H2O
y11
b11
y12−NH3
y12
b12
y13−NH3
b13−NH3
b13
y14
b16

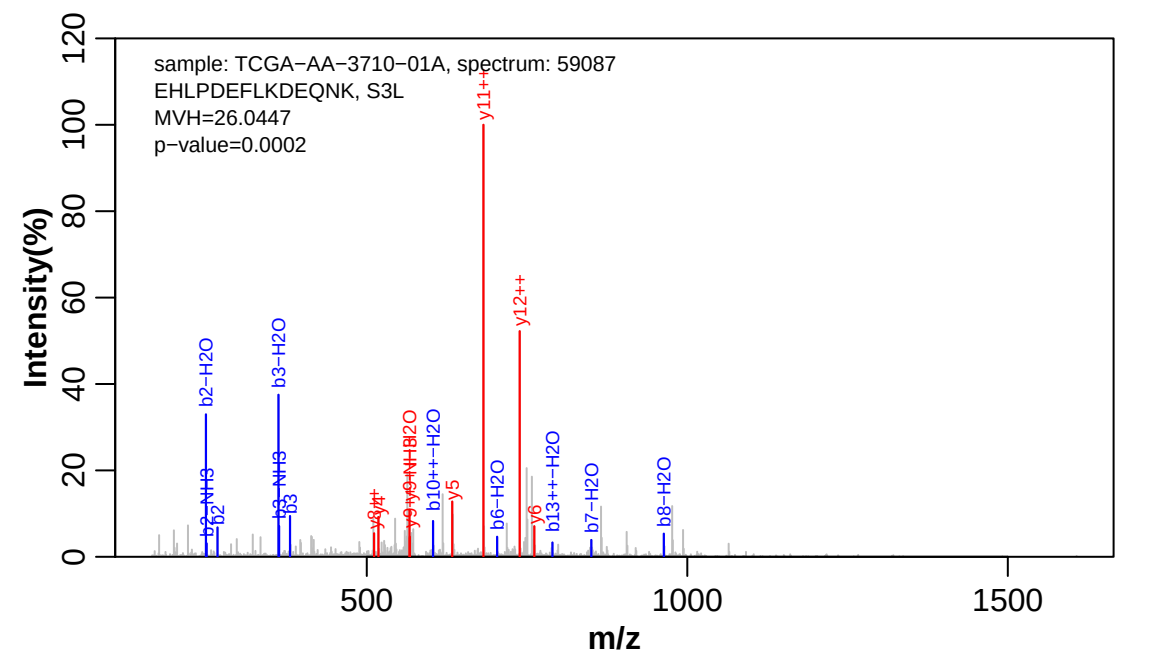

sample: TCGA−AA−3710−01A, spectrum: 110987
DGYGFLNR, N1D
MVH=46.1226
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6
y7

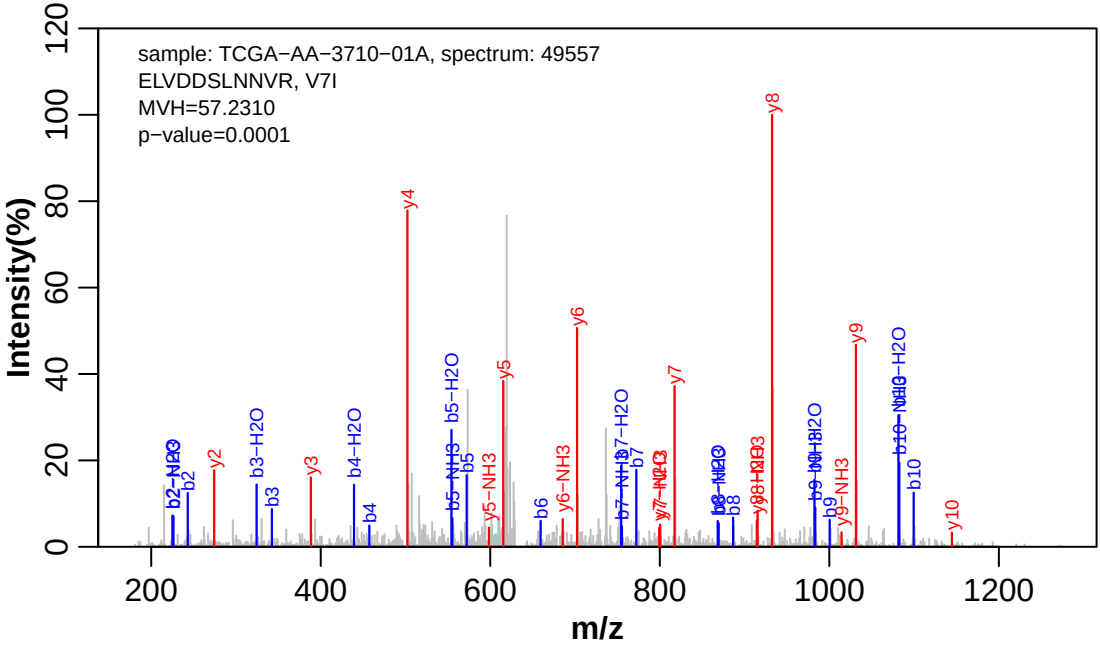

sample: TCGA−AA−3710−01A, spectrum: 20539
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=94.0863
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
b7+++
y13

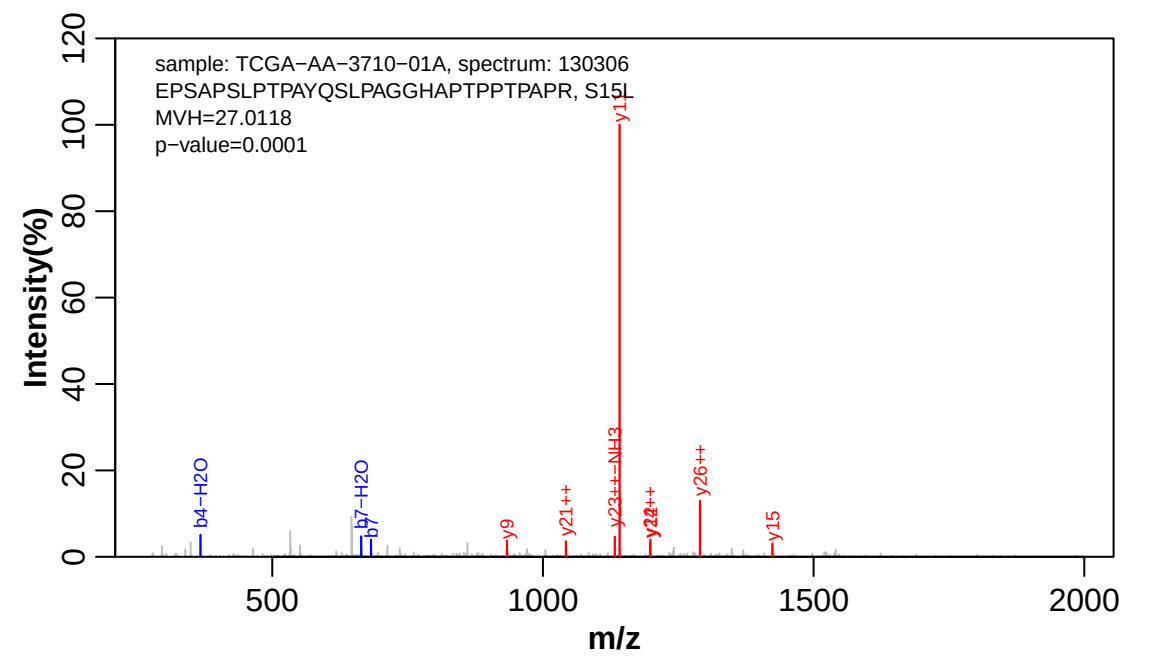

sample: TCGA−AA−3710−01A, spectrum: 42398
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=31.3000
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6
y8-H2O
b10-NH3
b10-H2O

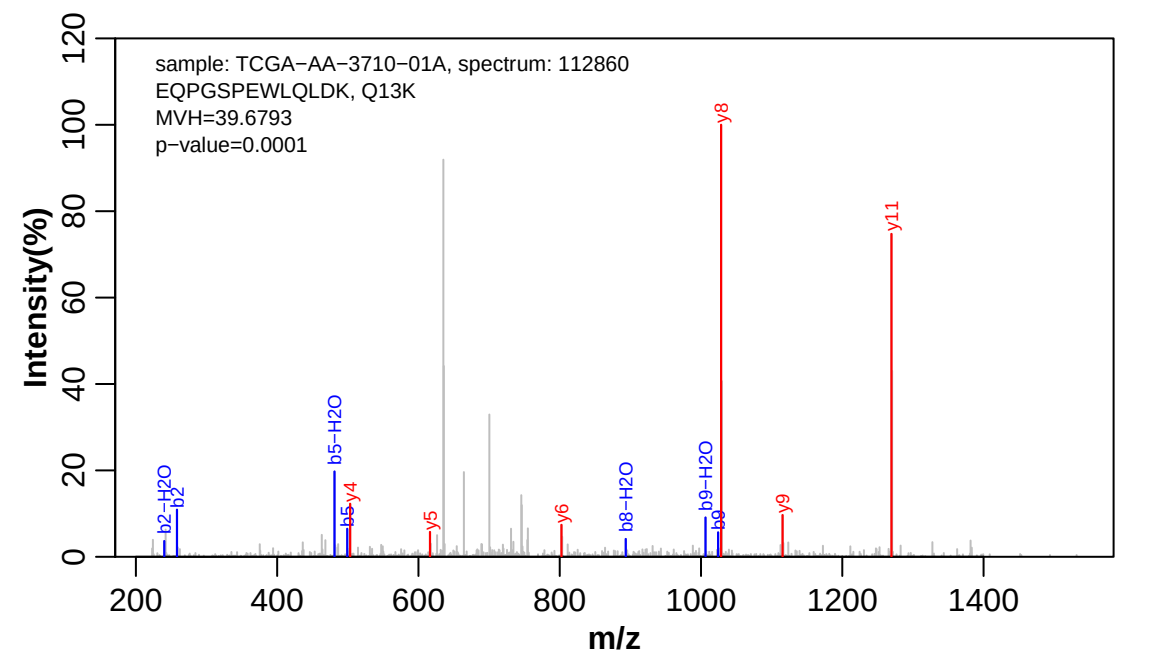

sample: TCGA−AA−3710−01A, spectrum: 94676
DVTVLQNTDGNNNDAWAK, E14D
MVH=63.4942
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4−H2O
b4−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6
b7
y7
b8
y8−NH3
y8
b10−H2O
y10−NH3
y10
b11
y11−H2O
y11
b12−NH3
b12
y12
b13
y13−H2O
y13−NH3
y13
b14
y14
y15
b16
b17−NH3
b17

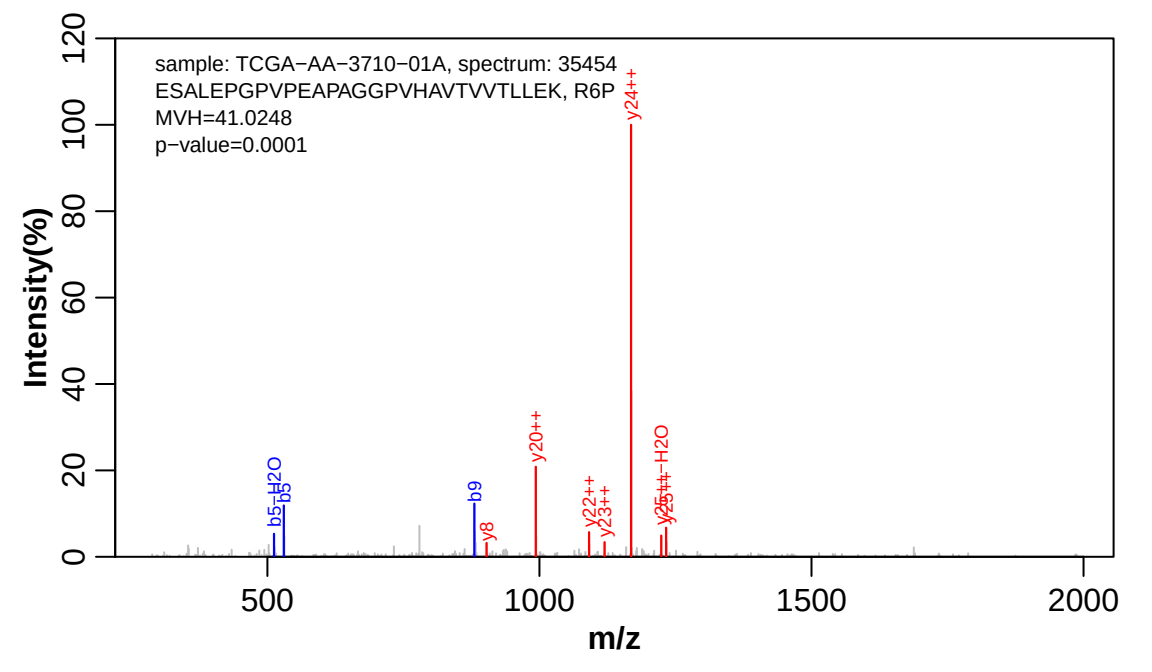

sample: TCGA−AA−3710−01A, spectrum: 26199
EALDVLDAVLK, G7D
MVH=57.1536
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−H2O

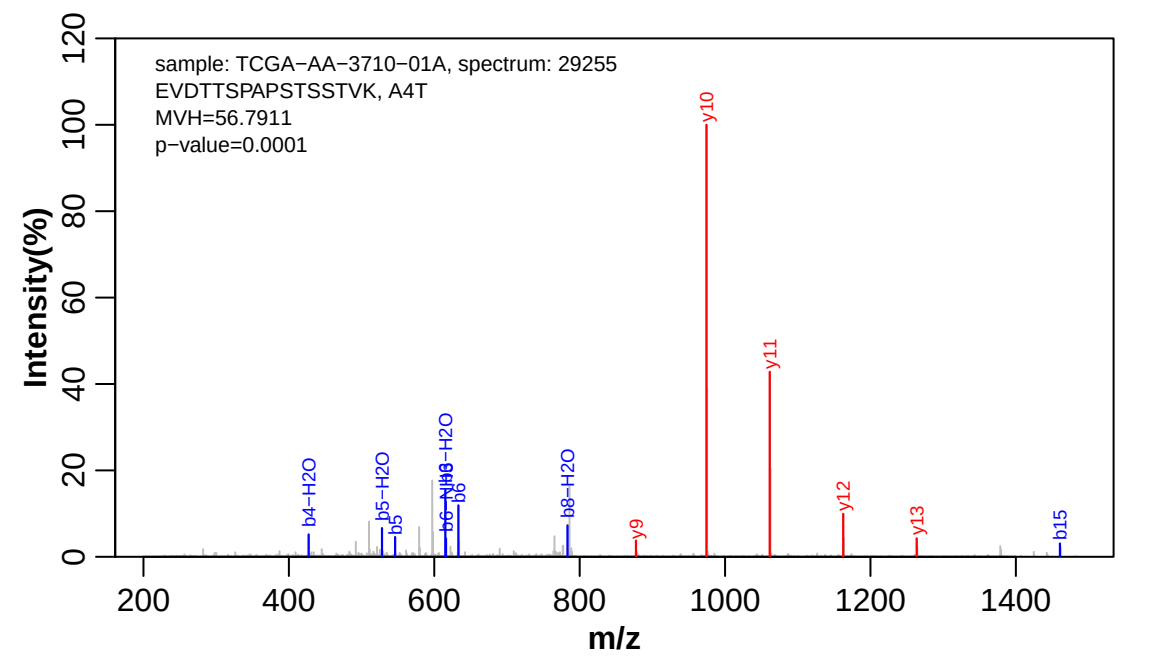

sample: TCGA−AA−3710−01A, spectrum: 59087
EHLPDEFLKDEQNK, S3L
MVH=26.0447
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y12++
b2−H2O
b3−H2O
b2−NH3
b3−NH3
b2
b3
y8++
y9++
y9++−NH3−H2O
b10++−H2O
y5
b6−H2O
y6
b13++−H2O
b7−H2O
b8−H2O

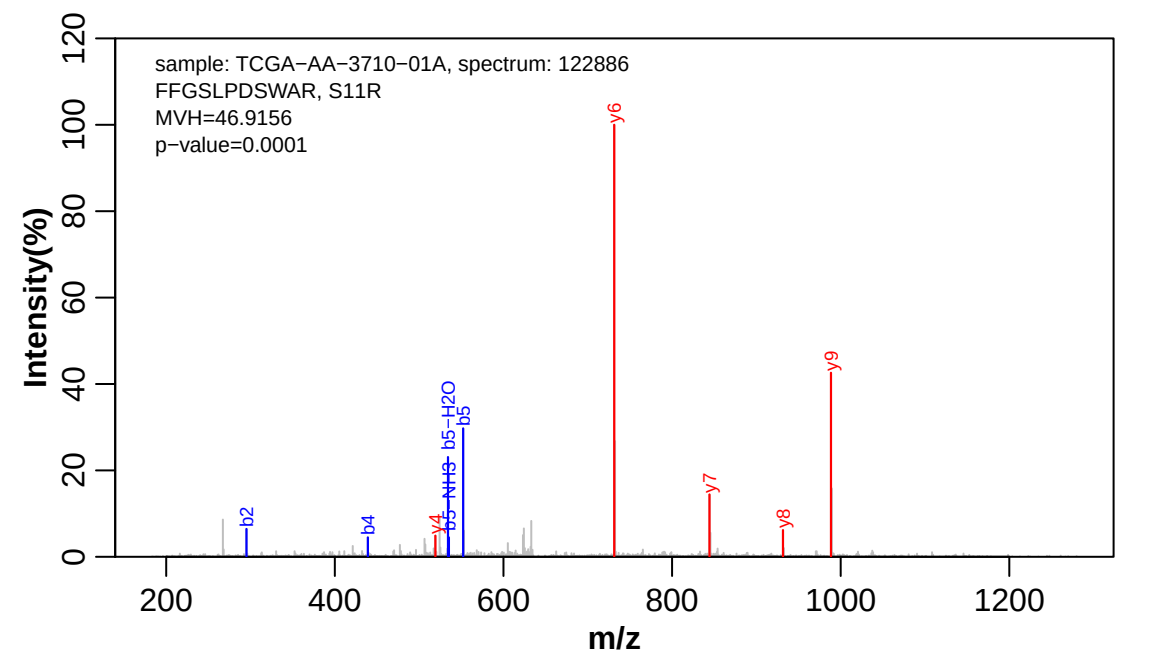

sample: TCGA−AA−3710−01A, spectrum: 49557
ELVDDSLNNVR, V7I
MVH=57.2310
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y8
y4
y6
y5
y9
y7
y2
y3
b3−H2O
b4−H2O
b5−H2O
b5−NH3
b5
y5−NH3
b6
y6−NH3
b7−H2O
b7
b10−H2O
b10
y10
b2
b3
b4
y9−NH3

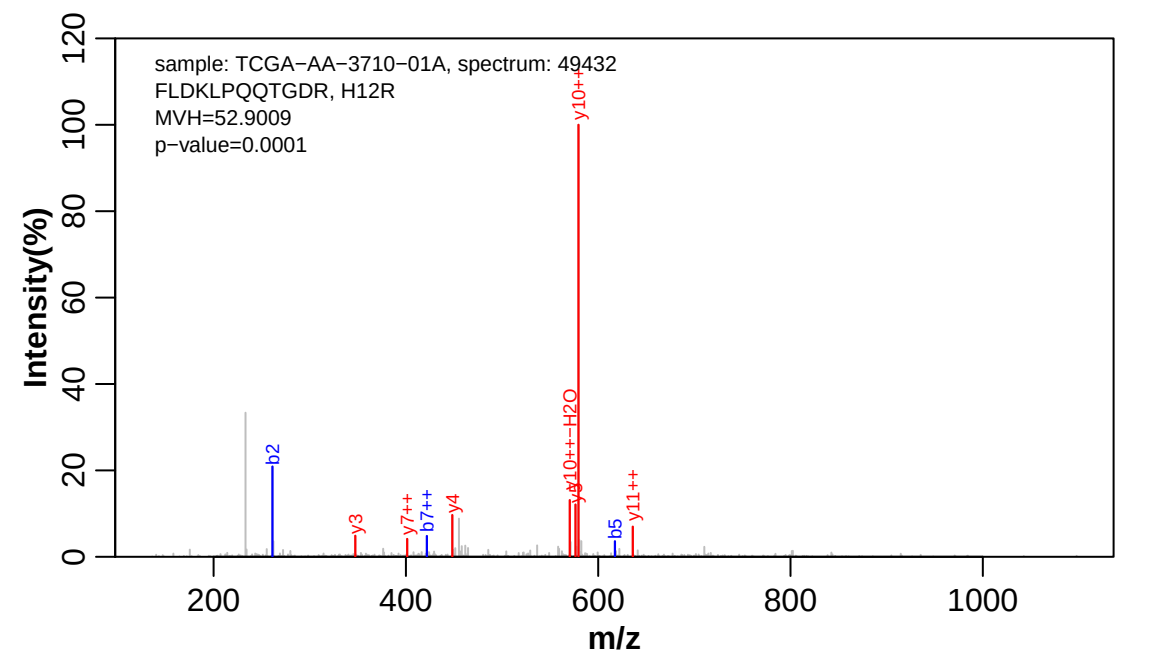

sample: TCGA−AA−3710−01A, spectrum: 130306
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=27.0118
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
b7−H2O
b7
y9
y21++
y23++−NH3
y11
y26++
y15

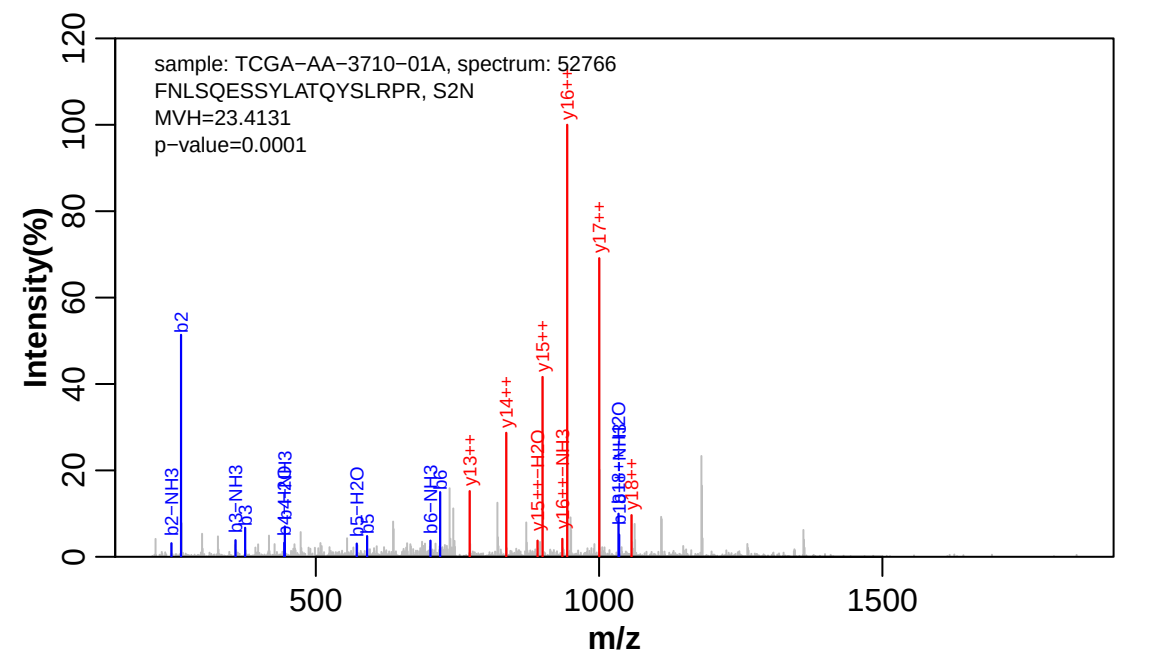

sample: TCGA−AA−3710−01A, spectrum: 112860
EQPGSPEWLQLDK, Q13K
MVH=39.6793
p−value=0.0001
Intensity(%)
m/z
b2−H2O
b2
b5−H2O
b5
y4
y5
y6
b8−H2O
b9−H2O
b9
y8
y9
y11

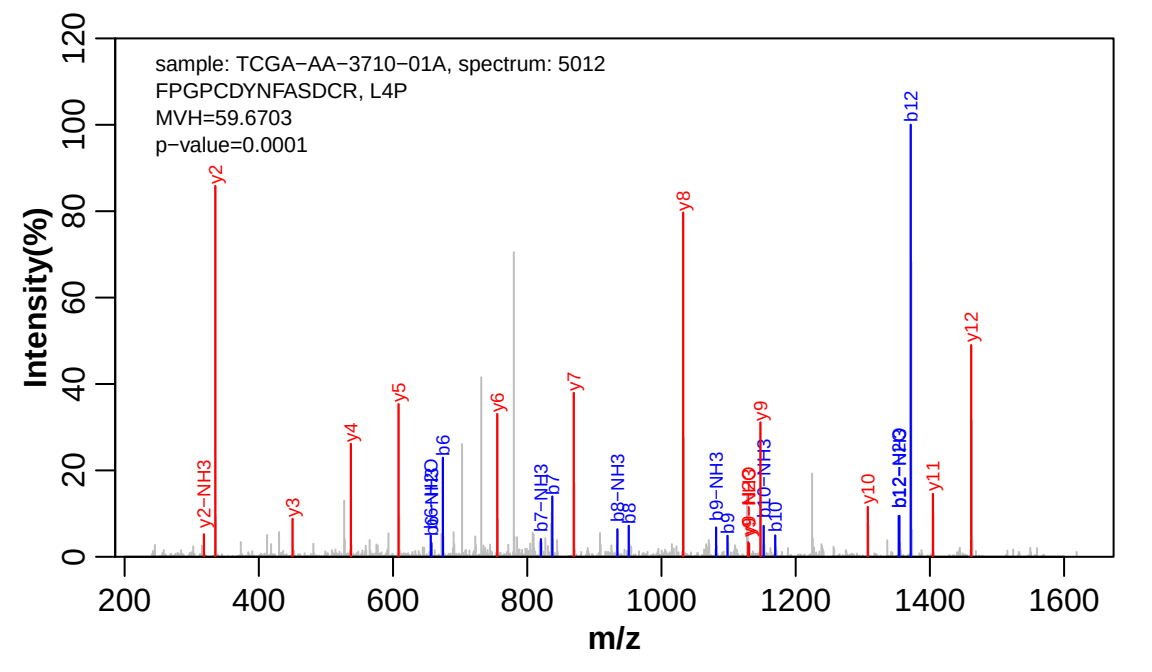

sample: TCGA−AA−3710−01A, spectrum: 35454
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=41.0248
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y24++
y20++
b5−H2O
b5
b9
y8
y22++
y23++
y25++−H2O
y25++

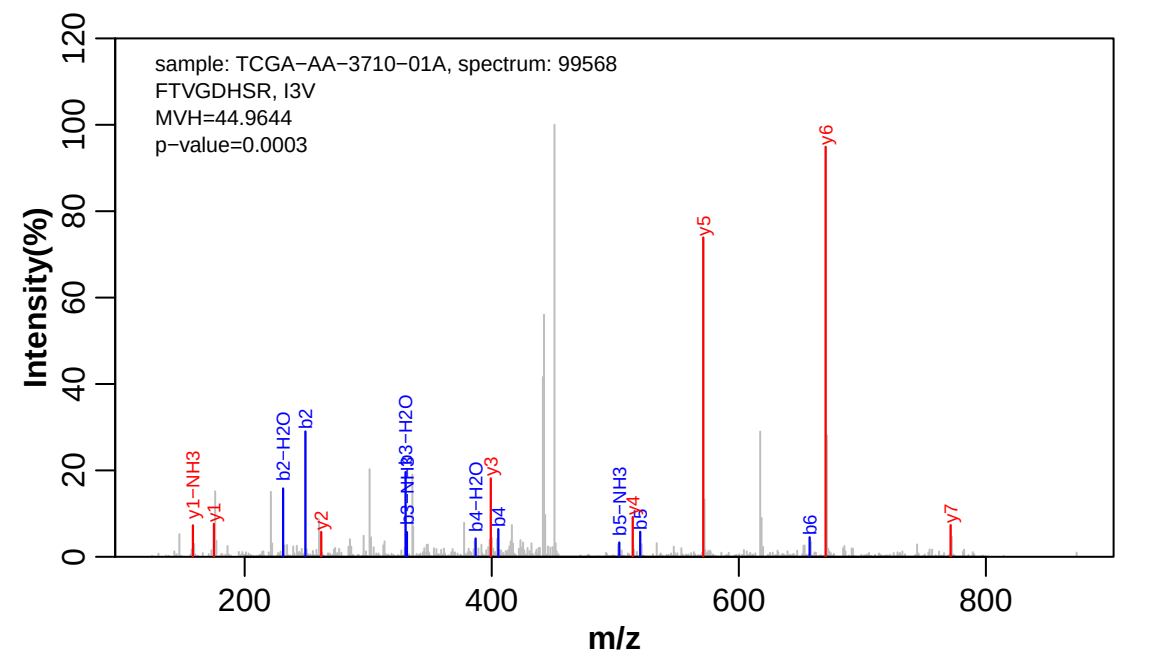

sample: TCGA−AA−3710−01A, spectrum: 29255
EVDTTSPAPSTSSTVK, A4T
MVH=56.7911
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y12
y13
y9
b15
b4−H2O
b5−H2O
b5
b6
b8−H2O

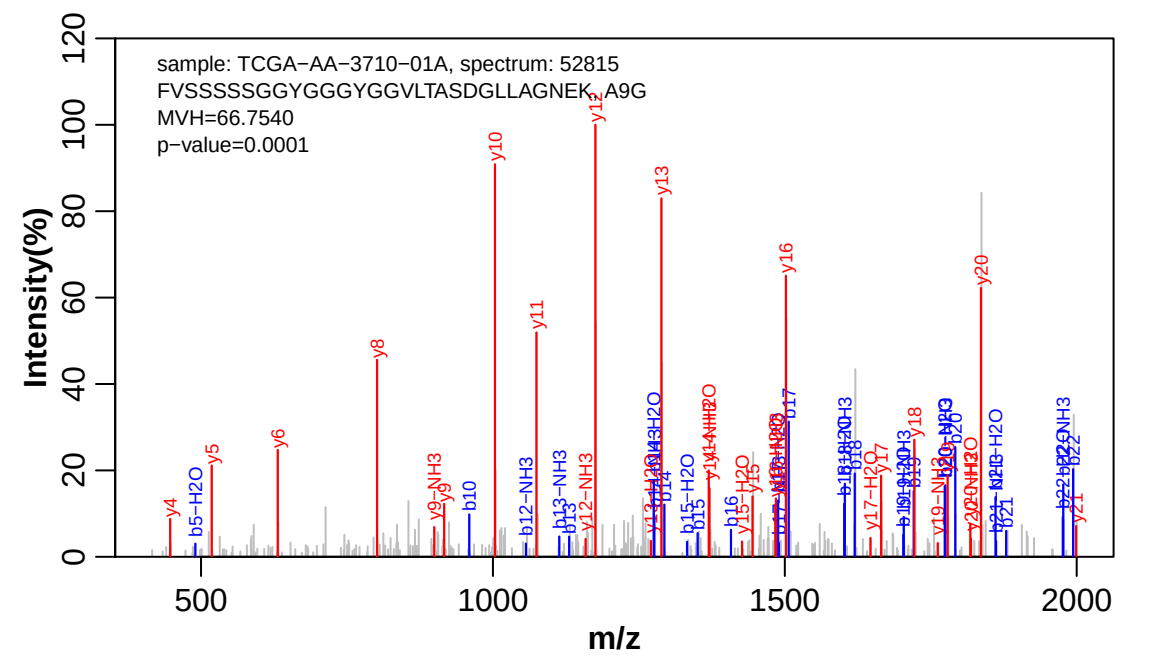

sample: TCGA−AA−3710−01A, spectrum: 122886
FFGSLPDSWAR, S11R
MVH=46.9156
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b5−H2O
b5
b5−NH3
y4
b2
b4

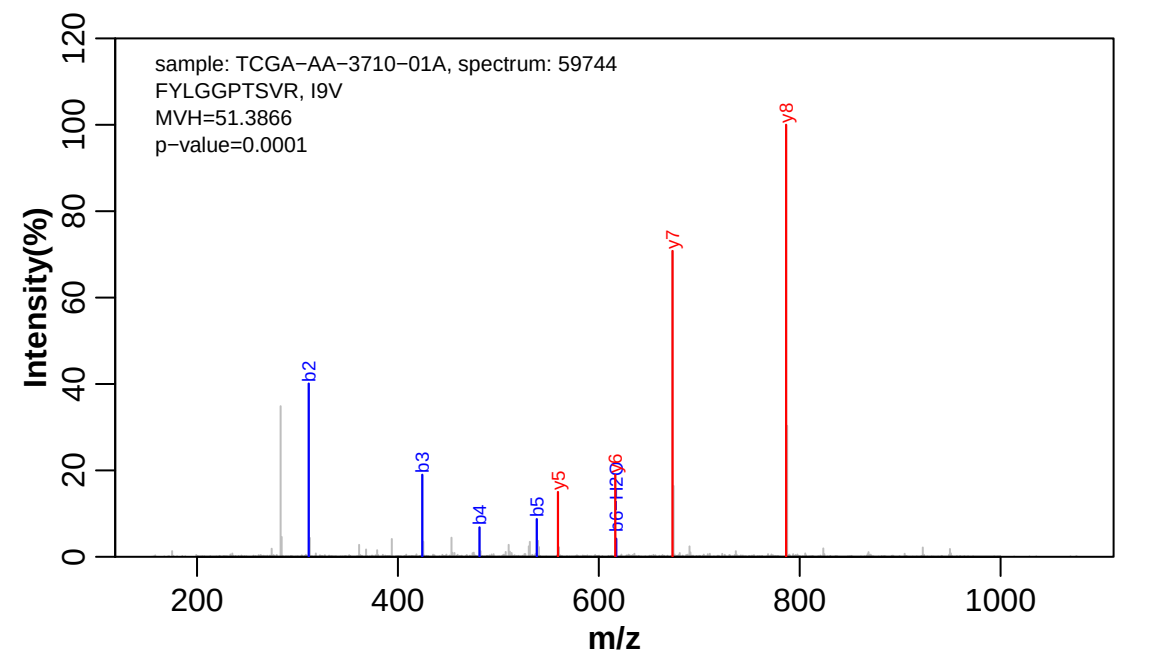

sample: TCGA−AA−3710−01A, spectrum: 49432
FLDKLPQQTGDR, H12R
MVH=52.9009
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3
y7++
b7++
y4
y10++−H2O
y10++
b5
y11++

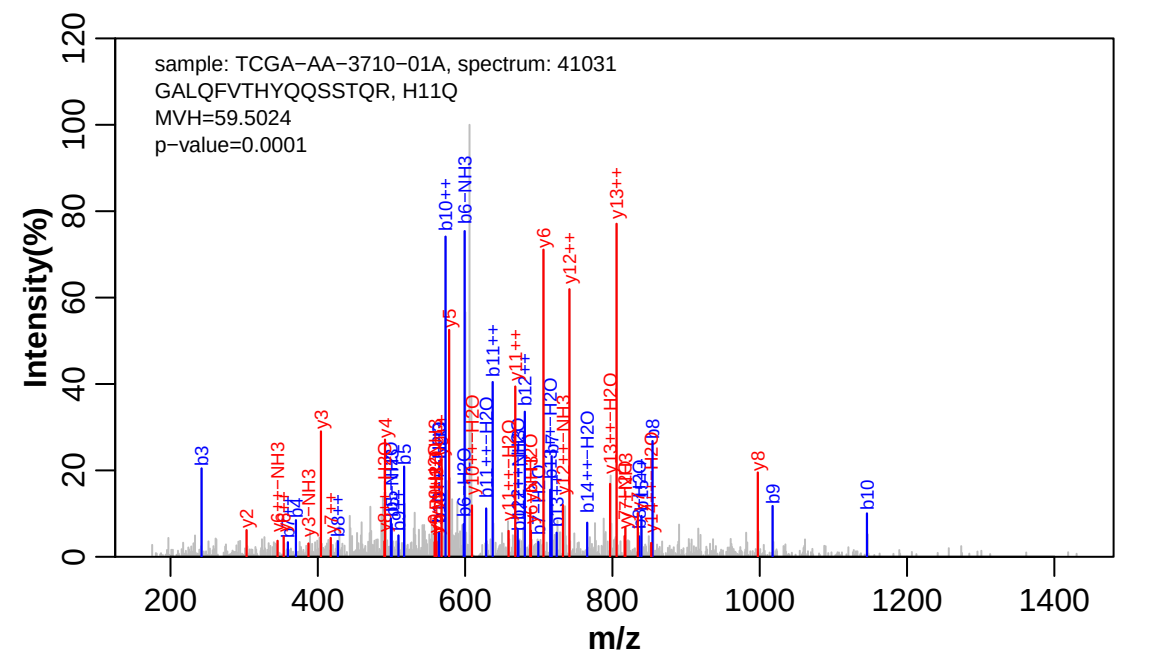

sample: TCGA−AA−3710−01A, spectrum: 52766
FNLSQESSYLATQYSLRPR, S2N
MVH=23.4131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b2−NH3
b3−NH3
b3
b5−H2O
b5
b6−NH3
b6
y13++
y14++
y15++−H2O
y15++
y16++−NH3
y16++
y17++
y18++

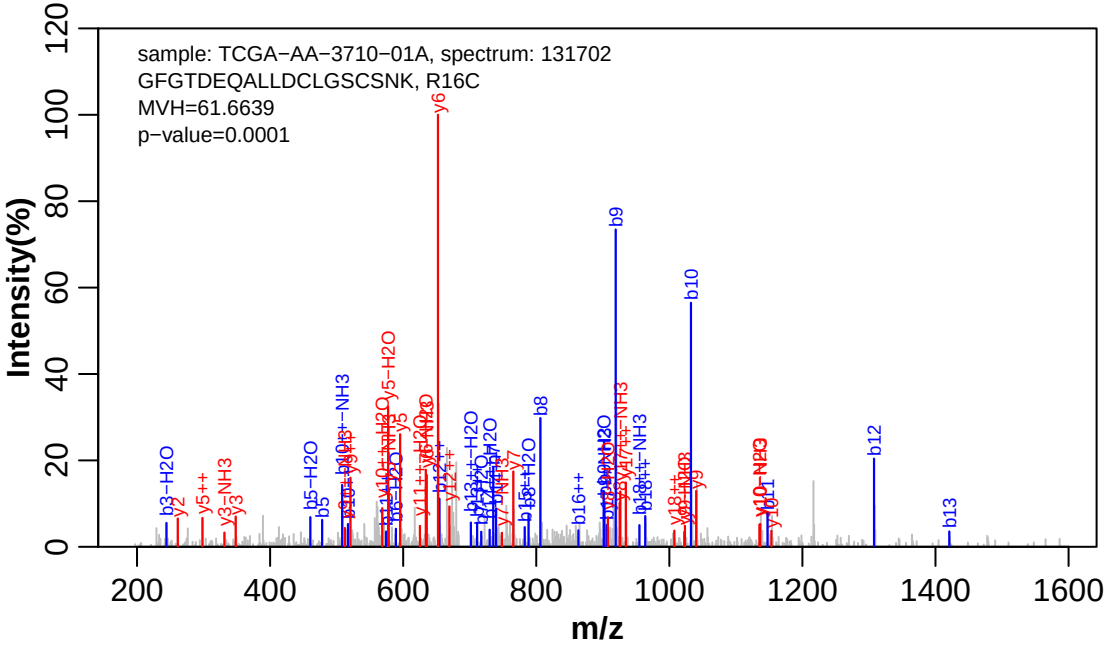

sample: TCGA−AA−3710−01A, spectrum: 5012
FPGPCDYNFASDCR, L4P
MVH=59.6703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y2−NH3
y3
y4
y5
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10−NH3
b10
y10
b12−NH3
y11
b12
y12

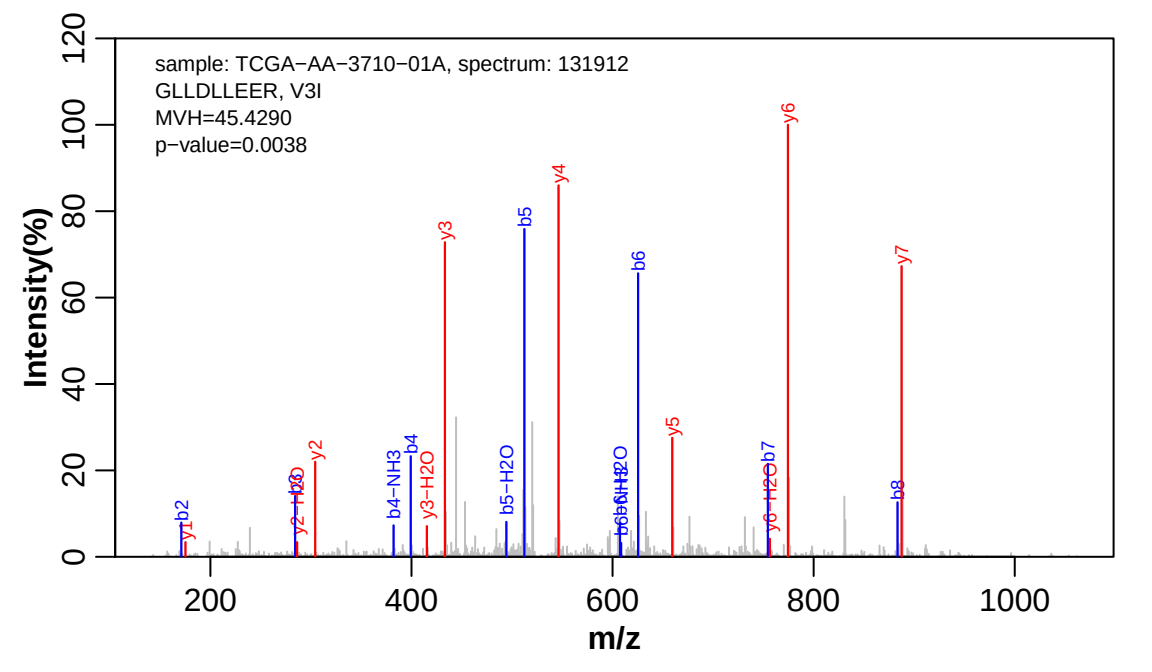

sample: TCGA−AA−3710−01A, spectrum: 99568
FTVGDHSR, I3V
MVH=44.9644
p−value=0.0003
Intensity(%)
m/z
y1−NH3
y1
b2−H2O
b2
y2
b3−NH3
b3−H2O
b4−H2O
y3
b4
b5−NH3
b5
b6
y5
y6
y7

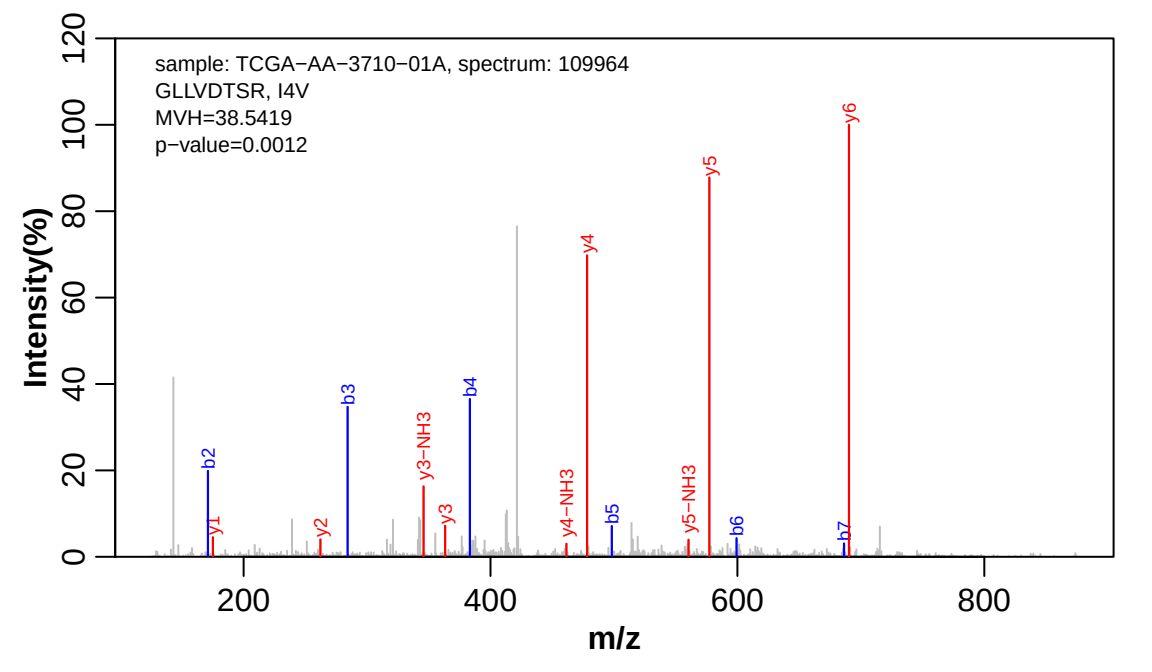

sample: TCGA−AA−3710−01A, spectrum: 52815
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=66.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5−H2O
y5
y6
y8
y9−NH3
y9
b10
b12−NH3
y10
b13−NH3
b13
y12−NH3
y12
y11
y13
b15−H2O
b15
y15−H2O
y15
b16
y16
b17
b18
y17−H2O
y17
y18
y19−NH3
y20
y20
b21
b21−H2O
y21
b22−NH3
b22

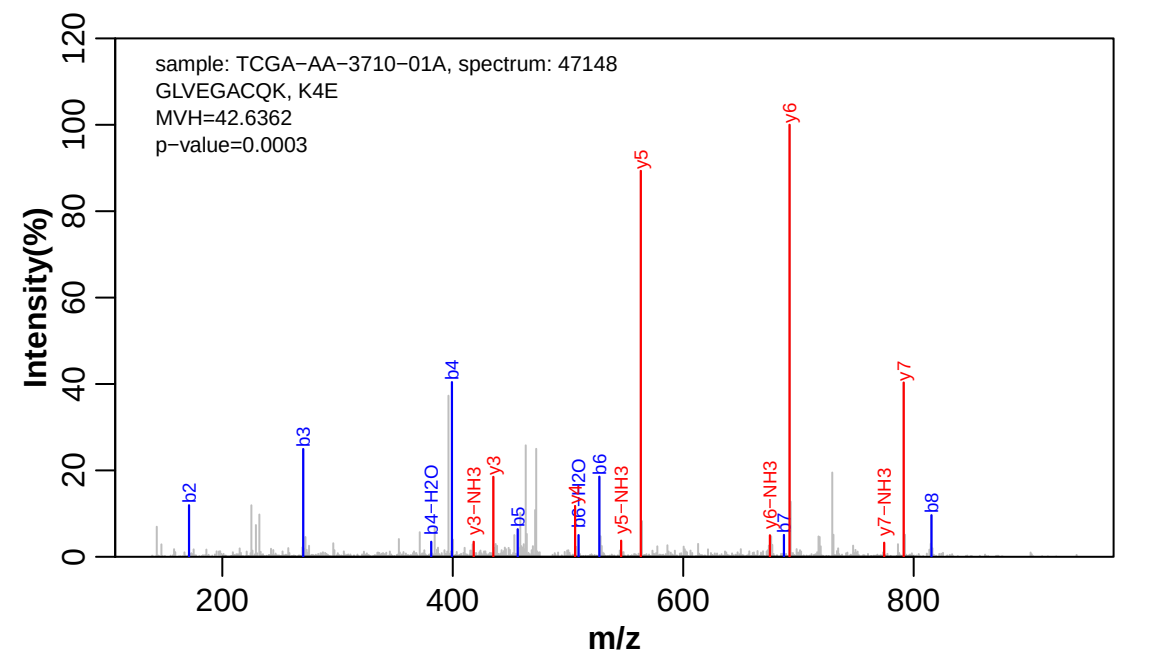

sample: TCGA−AA−3710−01A, spectrum: 59744
FYLGGPTSVR, I9V
MVH=51.3866
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

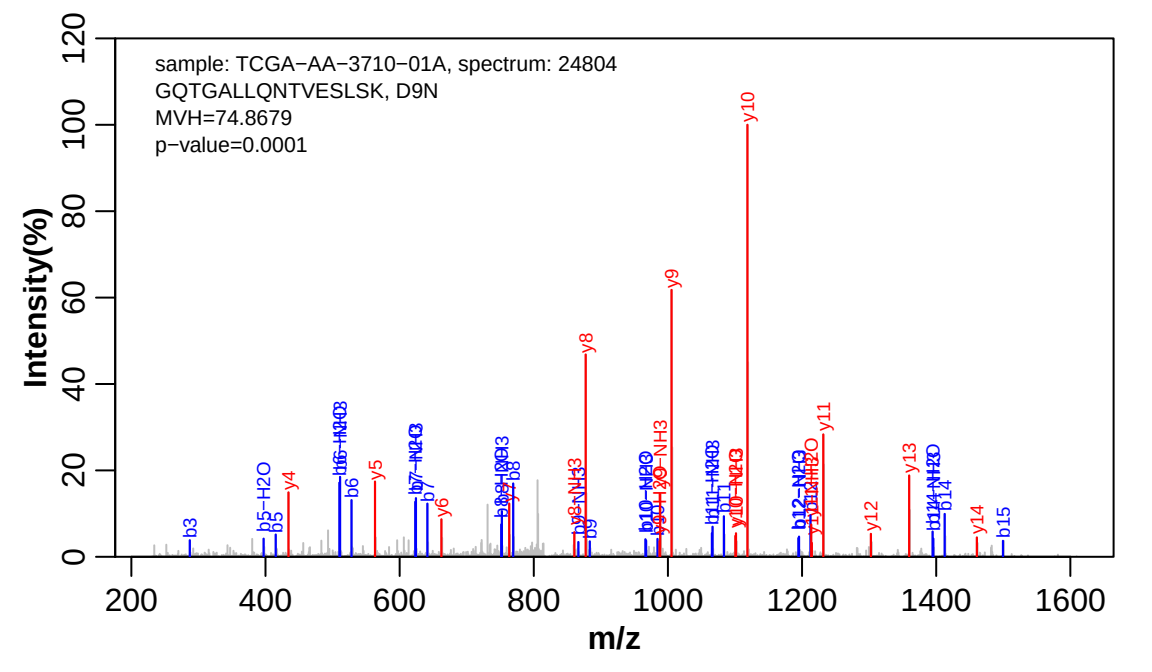

sample: TCGA−AA−3710−01A, spectrum: 41031
GALQFVTHYQQSSTQR, H11Q
MVH=59.5024
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b10++
b6−NH3
y13++
y6
y12++
y5
b11++
b14++−H2O
y8
b9
b10

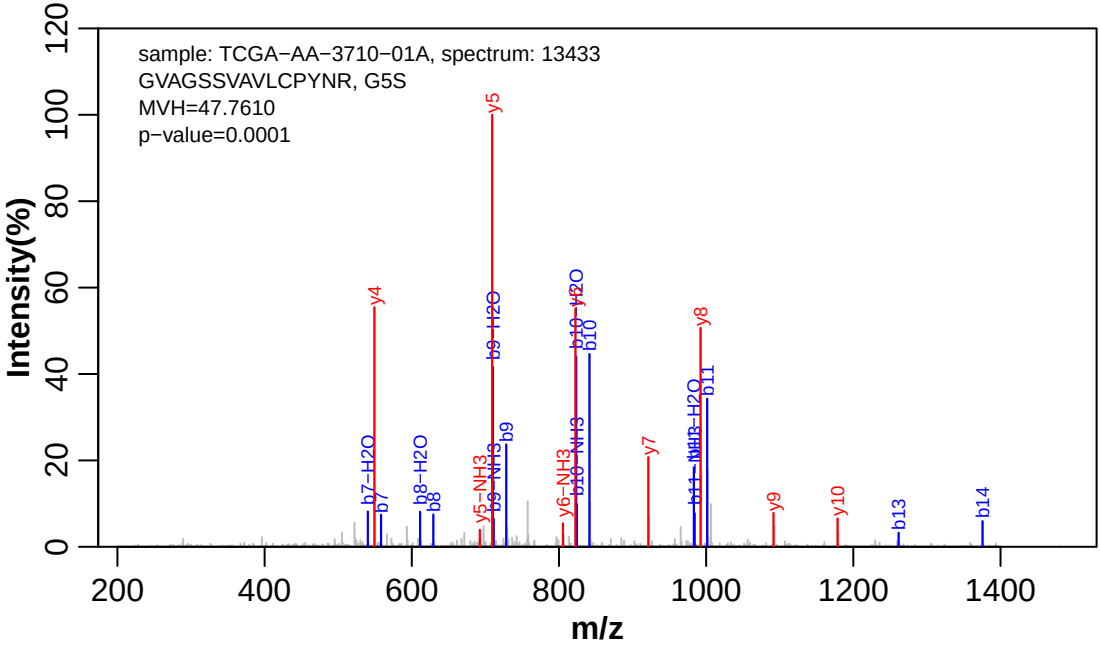

sample: TCGA−AA−3710−01A, spectrum: 131702
GFGTDEQALLDCLGSCSNK, R16C
MVH=61.6639
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
b9
b10
b12
b13
b8
y5−H2O
y5++
y3−NH3
y3
y2
b3−H2O
b5
b5−H2O
b16++
b15+−H2O
b18+−NH3
b18+−H2O
y9
y10−NH3
y10−H2O
y11−H2O
y12++
b13++−H2O
b14++−H2O
y7−NH3
y7
b14++
b15+−NH3

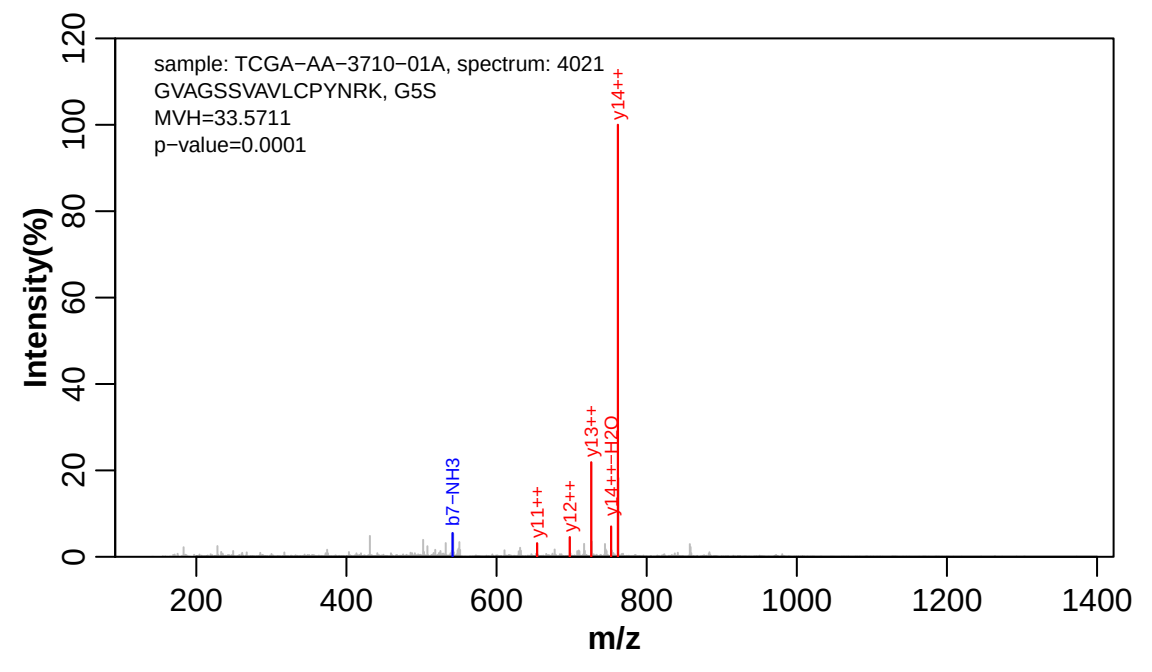

sample: TCGA−AA−3710−01A, spectrum: 131912
GLLDLLEER, V3I
MVH=45.4290
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
y2−H2O
b4−NH3
b4
y3−H2O
y3
b5−H2O
b5
b6
y4
y5
y6−H2O
b7
y6
b8
y7

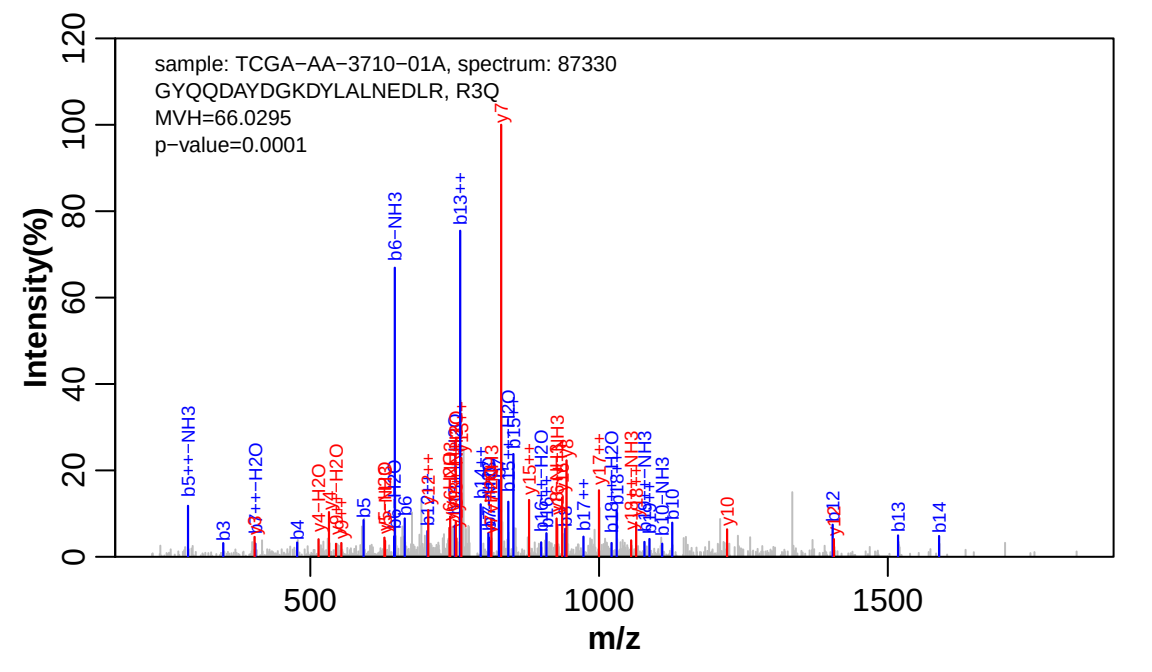

sample: TCGA−AA−3710−01A, spectrum: 109964
GLLVDTSR, I4V
MVH=38.5419
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y1
y2
b3
y3−NH3
y3
b4
y4−NH3
y4
b5
y5−NH3
y5
b6
b7
y6

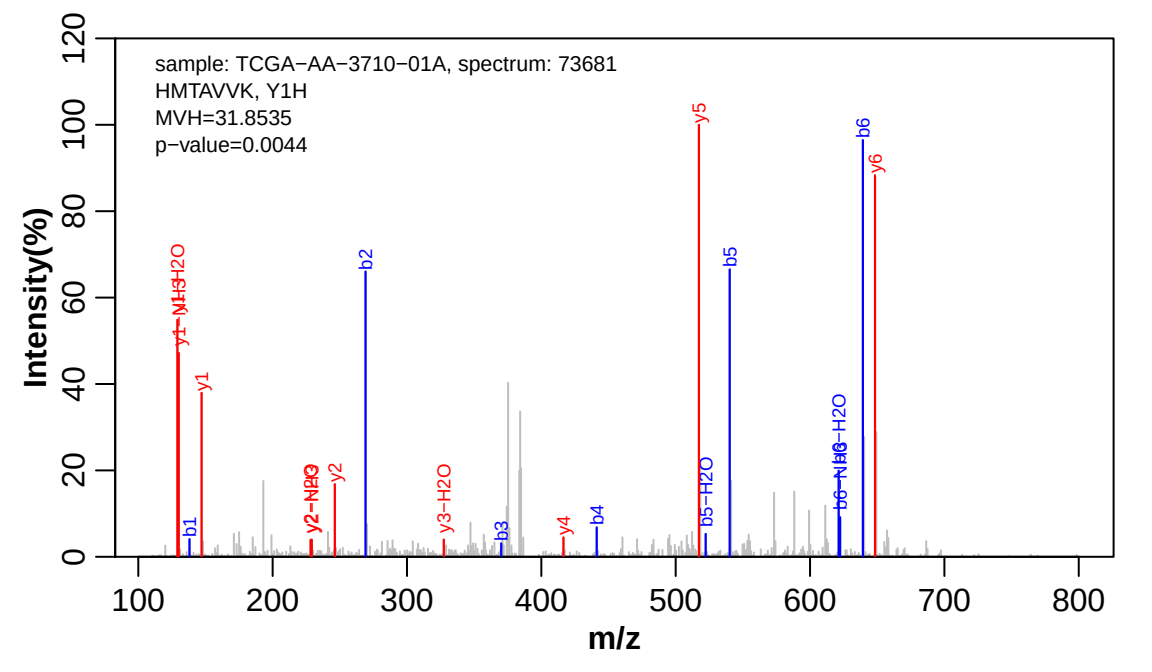

sample: TCGA−AA−3710−01A, spectrum: 47148
GLVEGACQK, K4E
MVH=42.6362
p−value=0.0003
Intensity(%)
m/z
b2
b3
b4
b4−H2O
y3−NH3
y3
b5
b6−H2O
b6
y5−NH3
y5
y6
y6−NH3
b7
y7−NH3
y7
b8

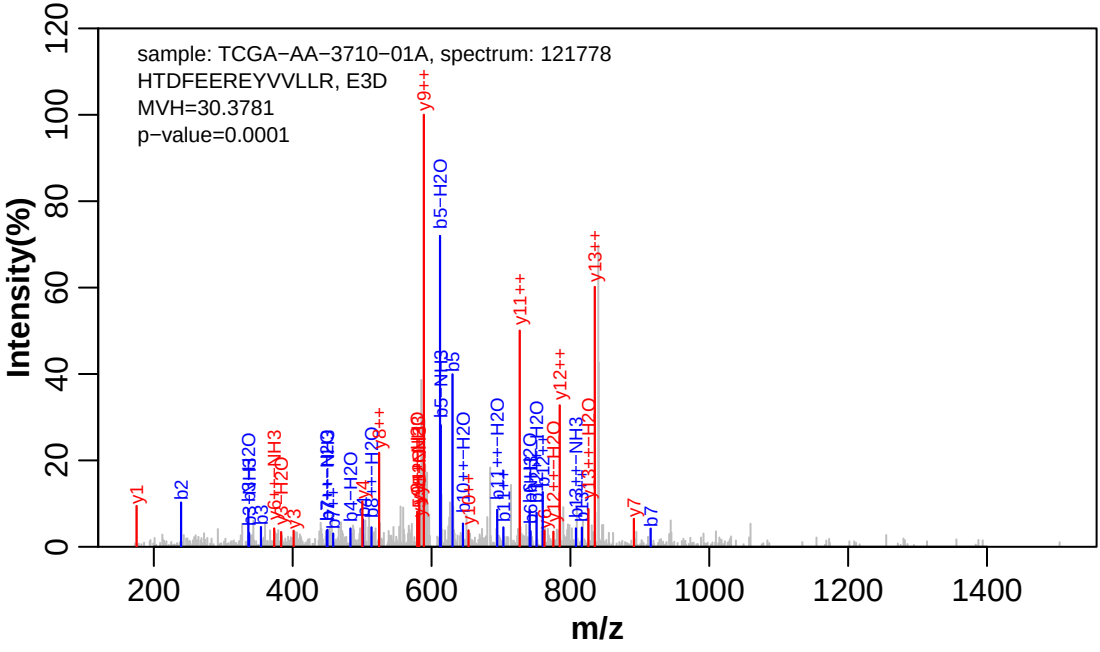

sample: TCGA−AA−3710−01A, spectrum: 24804
GQTGALLQNTVESLSK, D9N
MVH=74.8679
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b5−H2O
b5
y4
b6
y5
y6
y8
y9
y10
y11
y12
y13
y14
b15

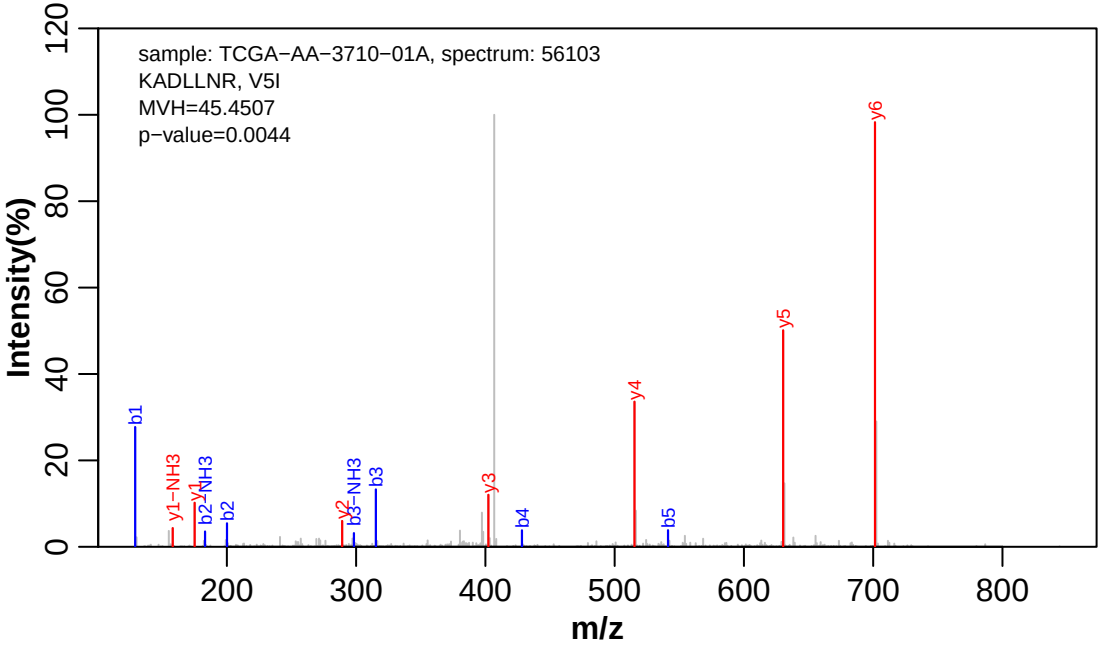

sample: TCGA−AA−3710−01A, spectrum: 13433
GVAGSSVAVLCPYNR, G5S
MVH=47.7610
p−value=0.0001
Intensity(%)
m/z
y5
y4
y8
y7
y9
y10
b13
b14
b11
b10
b9
b7
b8
b7−H2O
b8−H2O
b9−H2O
b10−H2O
b11−H2O
y5−NH3
b9−NH3
y6−NH3
b10−NH3

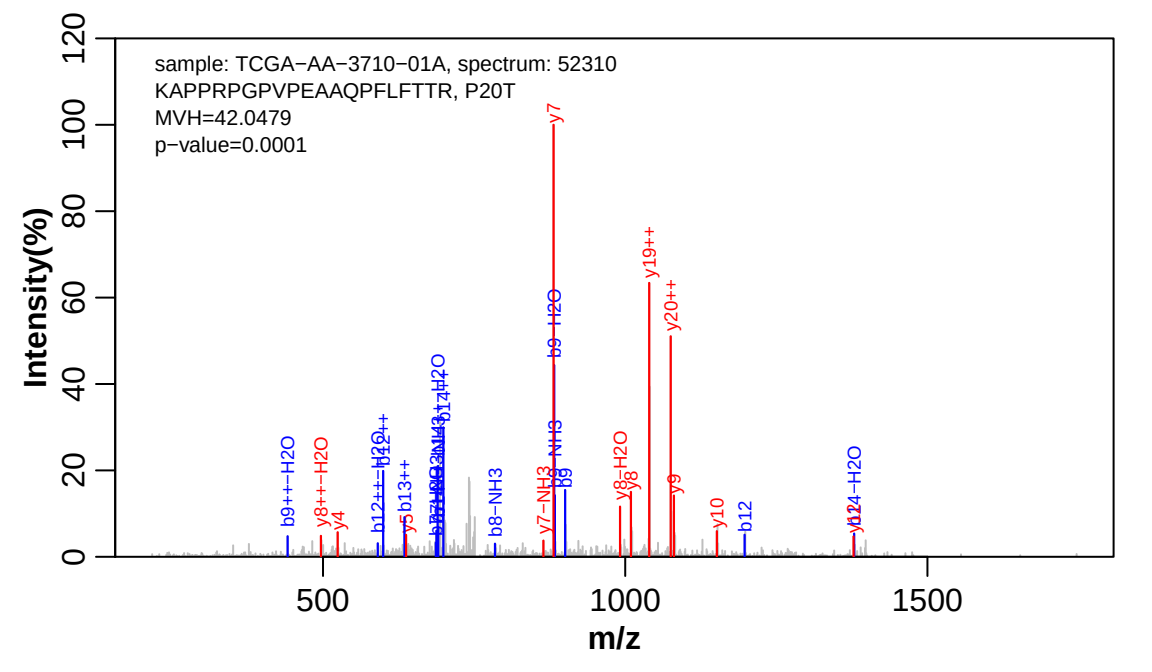

sample: TCGA−AA−3710−01A, spectrum: 4021
GVAGSSVAVLCPYNRK, G5S
MVH=33.5711
p−value=0.0001
y14++
y13++
y14++−H2O
y12++
y11++
b7−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

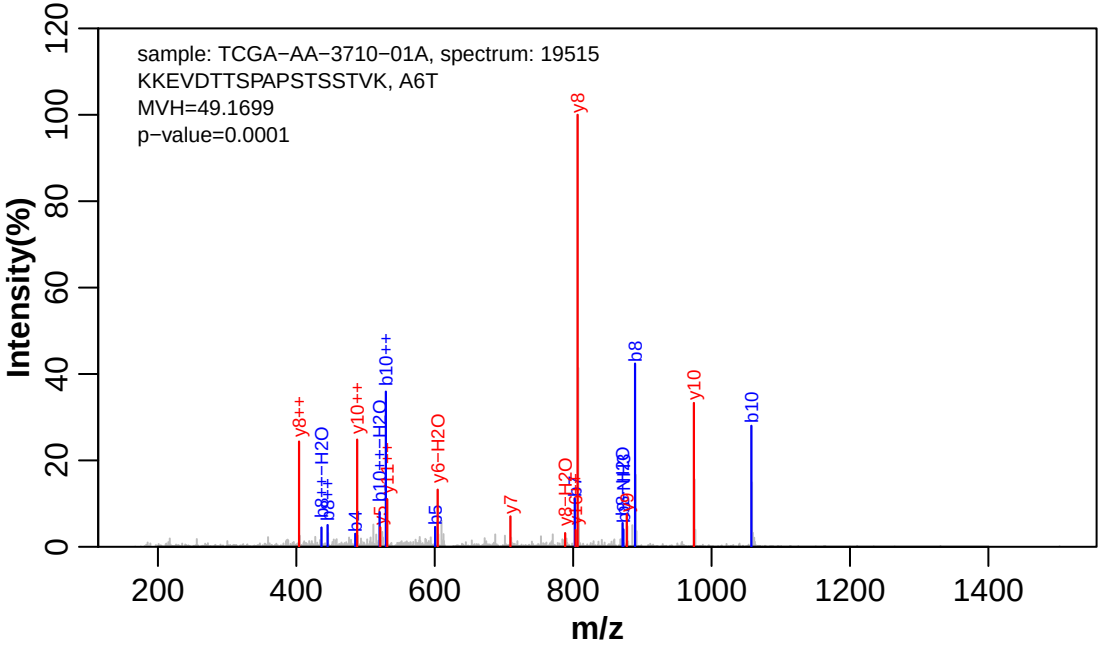

sample: TCGA−AA−3710−01A, spectrum: 87330
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=66.0295
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
b13++
b6−NH3
b5++−NH3
b3
y3++−H2O
b4
y4−H2O
b5
b6
y15++
b17++
y17++
y10
b13
b14

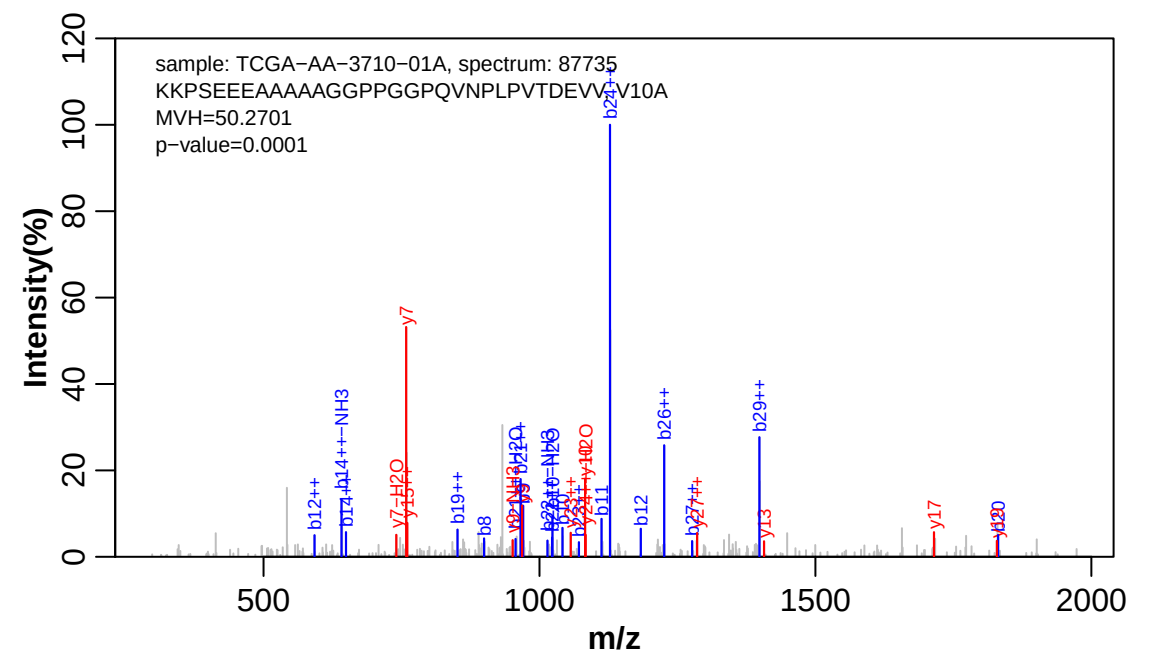

sample: TCGA−AA−3710−01A, spectrum: 73681
HMTAVVK, Y1H
MVH=31.8535
p−value=0.0044
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
y5
b6
y6
b2
b5
y1
b1
y2
y3−H2O
b3
y4
b4
b5−H2O
b6−H2O

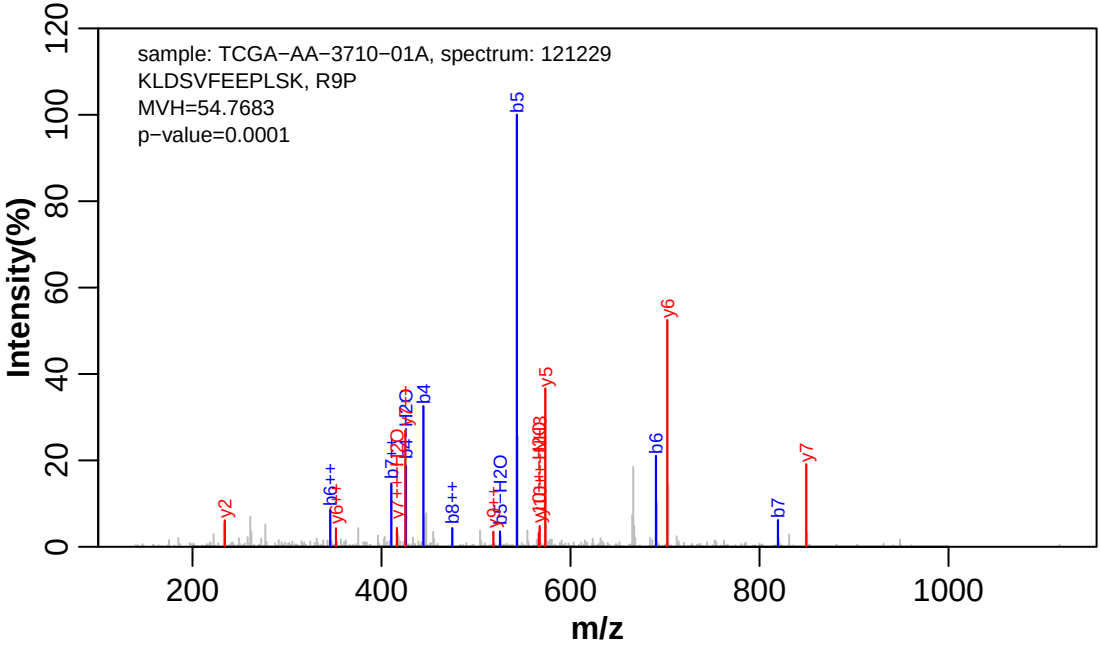

sample: TCGA−AA−3710−01A, spectrum: 121778
HTDFEEREYVVLLR, E3D
MVH=30.3781
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
b2
y9++
b5−H2O
b5−NH3
b5
y11++
y13++
y12++
y7
b7

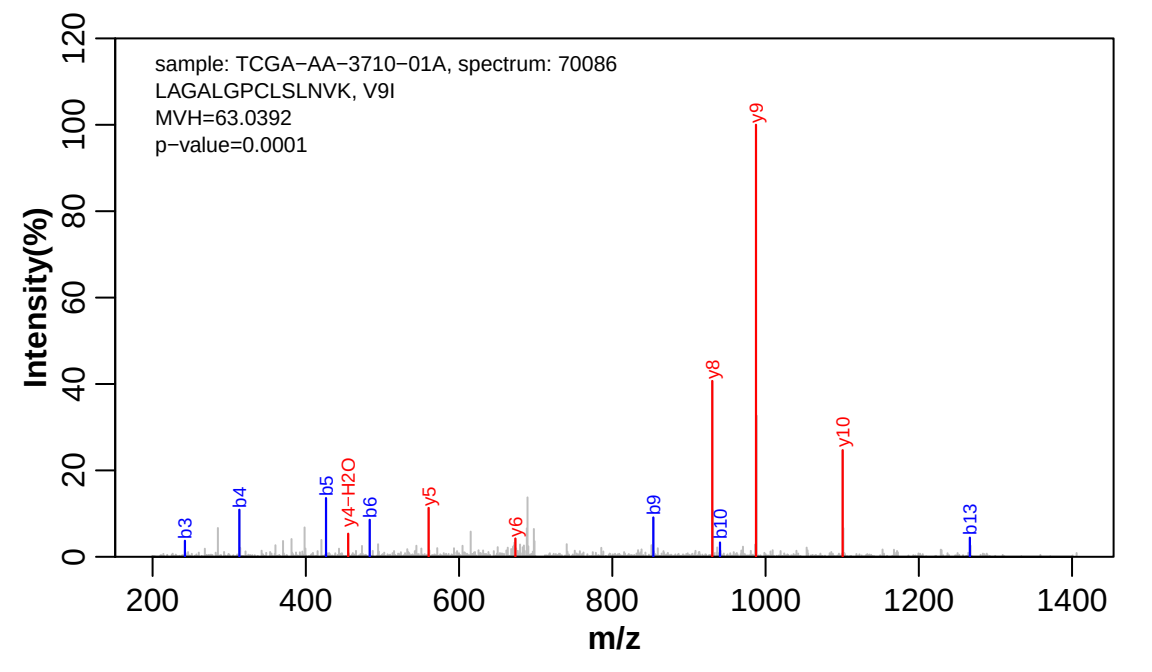

sample: TCGA−AA−3710−01A, spectrum: 56103
KADLLNR, V5I
MVH=45.4507
p−value=0.0044
Intensity(%)
m/z
0
20
40
60
80
100
120
200
300
400
500
600
700
800
b1
y1−NH3
y1
b2−NH3
b2
y2
b3−NH3
b3
y3
b4
y4
b5
y5
y6

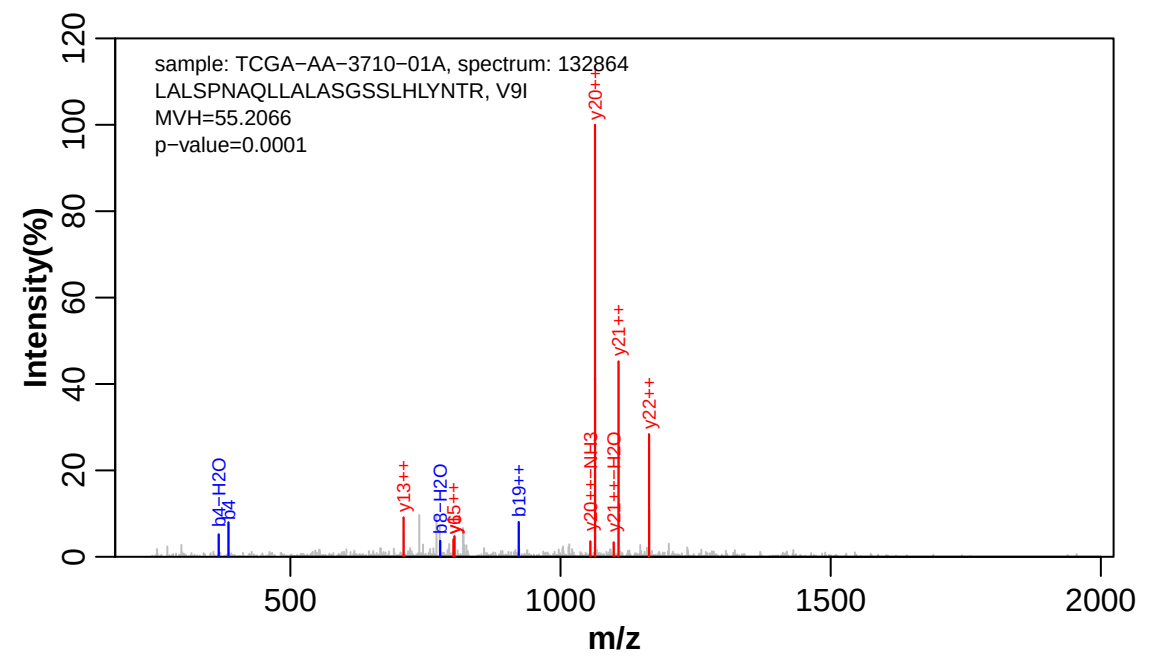

sample: TCGA−AA−3710−01A, spectrum: 52310
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=42.0479
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y19++
y20++
b9−H2O
b9−NH3
y8−H2O
y8
b9
y9
y7−NH3
b8−NH3
y10
b12
y12−H2O
b9++−H2O
y8++−H2O
y4
b12++−H2O
y5
b13++

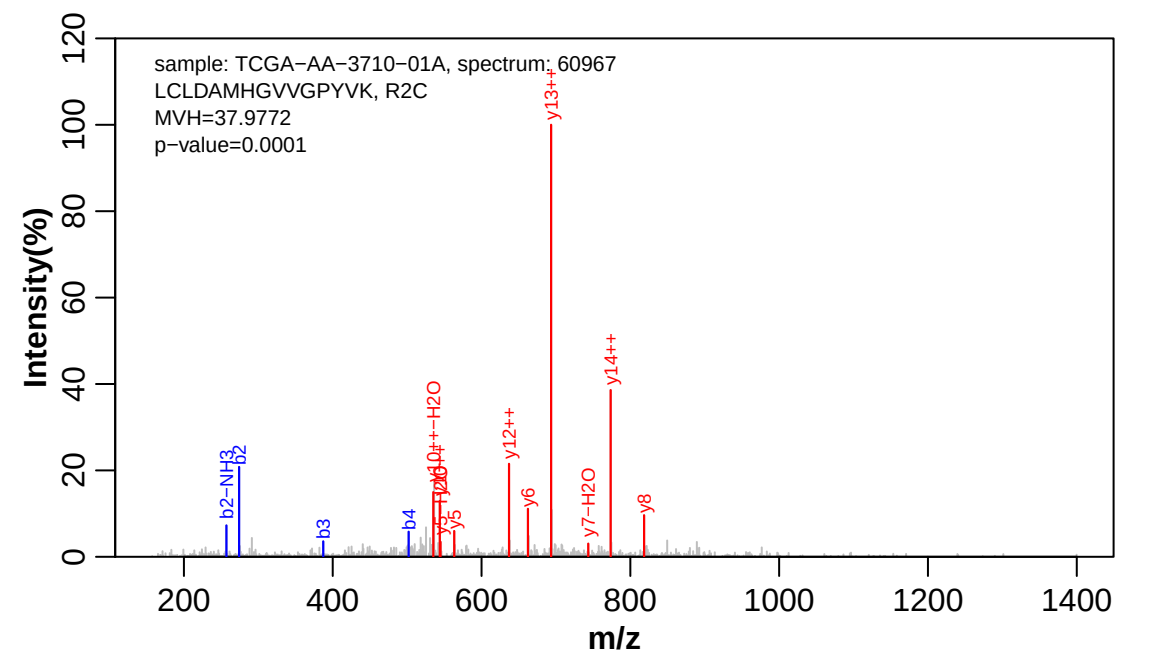

sample: TCGA−AA−3710−01A, spectrum: 19515
KKEVDTTSPAPSTSSTVK, A6T
MVH=49.1699
p−value=0.0001
Intensity(%)
m/z
y8
y8++
y10++
b10++
b8
y10
b10
y6−H2O
y7
b4
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

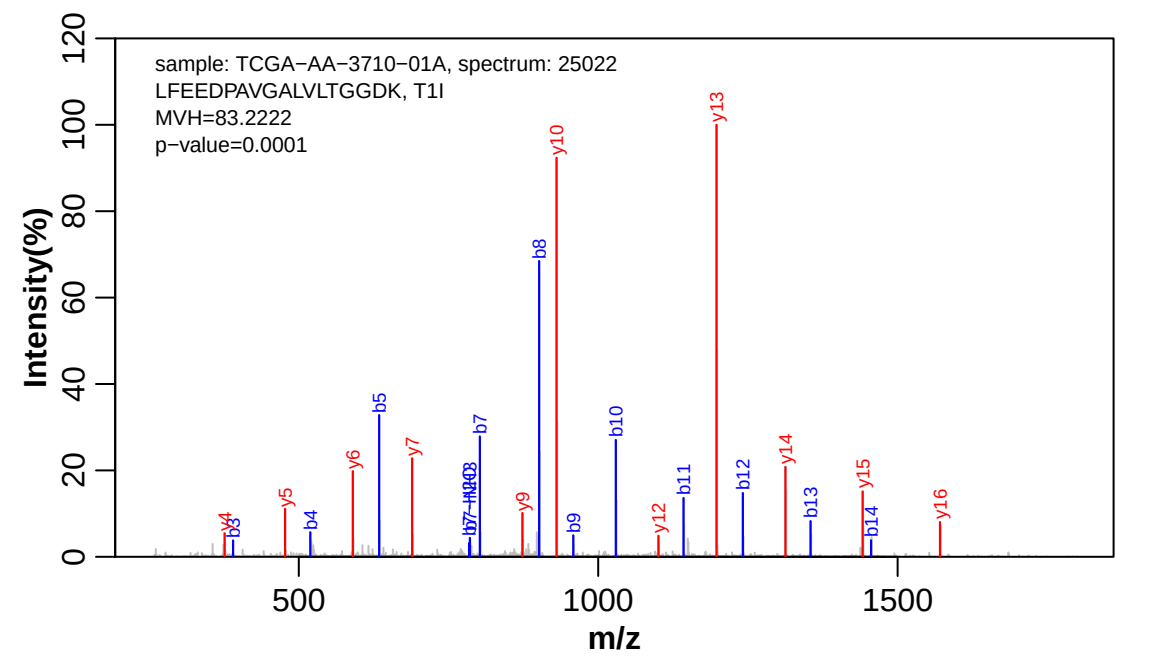

sample: TCGA−AA−3710−01A, spectrum: 87735
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV10A
MVH=50.2701
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
y7
b14++−NH3
y7+H2O
y15++
b12++
b19++
b8
b11
b12
b26++
b29++
y13
b27++
y17
y20

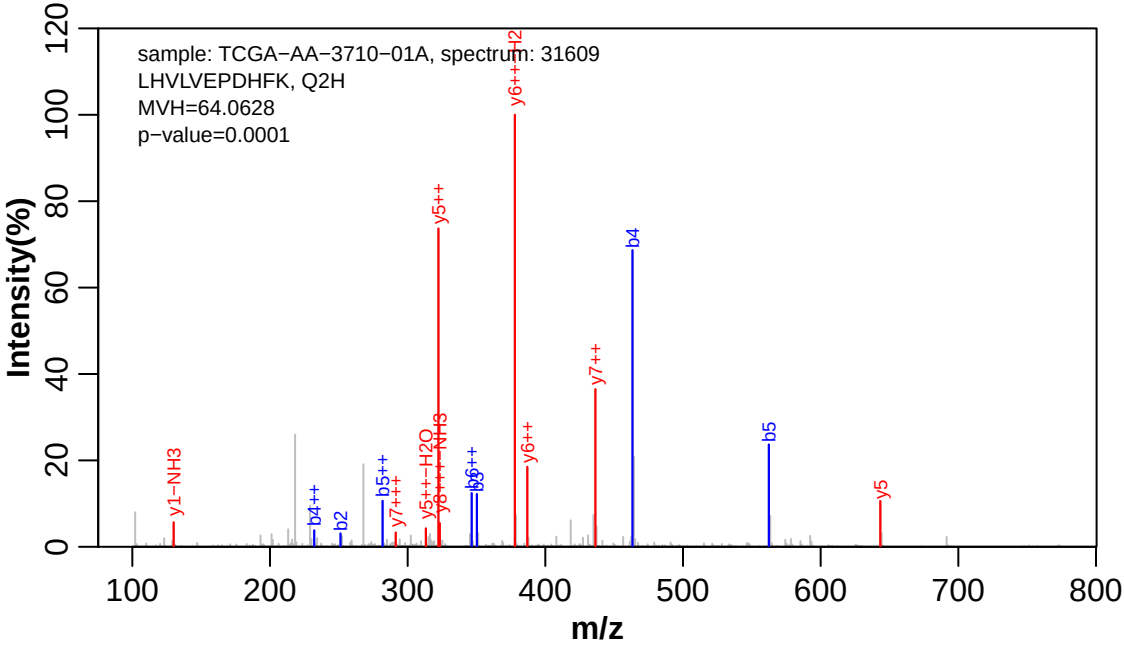

sample: TCGA−AA−3710−01A, spectrum: 121229
KLDSVFEEPLSK, R9P
MVH=54.7683
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y6
y5
b6
y7
b4
y2
b7
b8++
b6++
y6++
y8++-H2O
b5-H2O

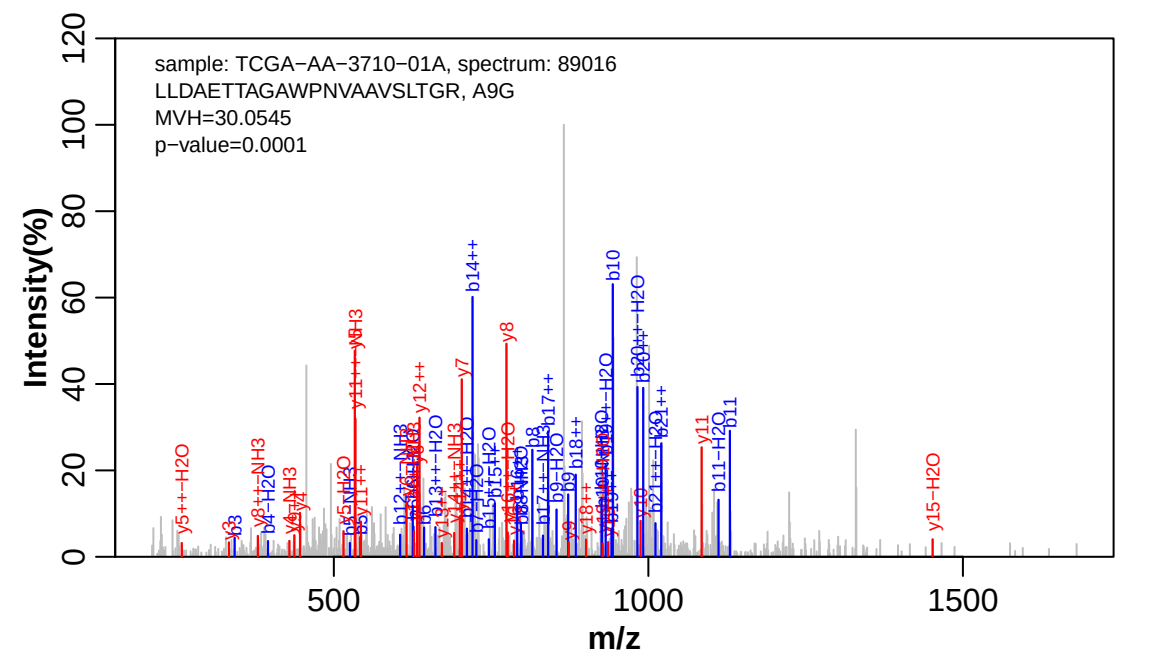

sample: TCGA−AA−3710−01A, spectrum: 70086
LAGALGPCLSLNVK, V9I
MVH=63.0392
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
b4
b5
y4−H2O
b6
y5
y6
b9
y8
b10
y9
y10
b13

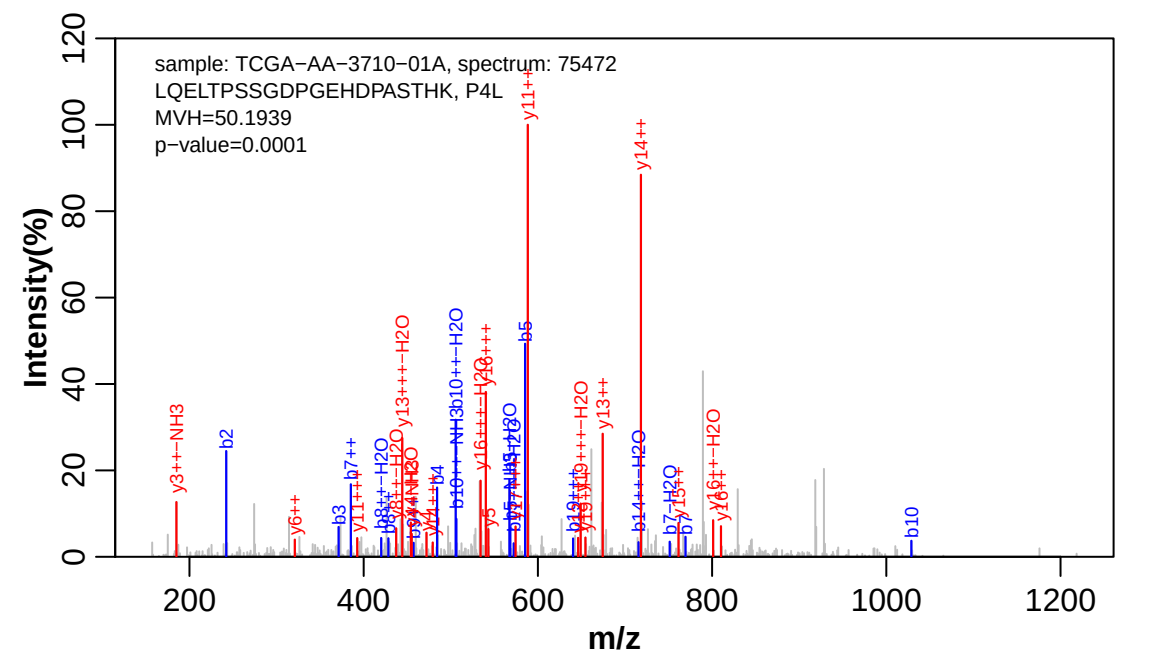

sample: TCGA−AA−3710−01A, spectrum: 132864
LALSPNAQLLALASGSSLHLYNTR, V9I
MVH=55.2066
p−value=0.0001
Intensity(%)
m/z
y20++
y21++
y22++
y20++−NH3
y21++−H2O
y13++
b4−H2O
b4
b8−H2O
y6++
b19++

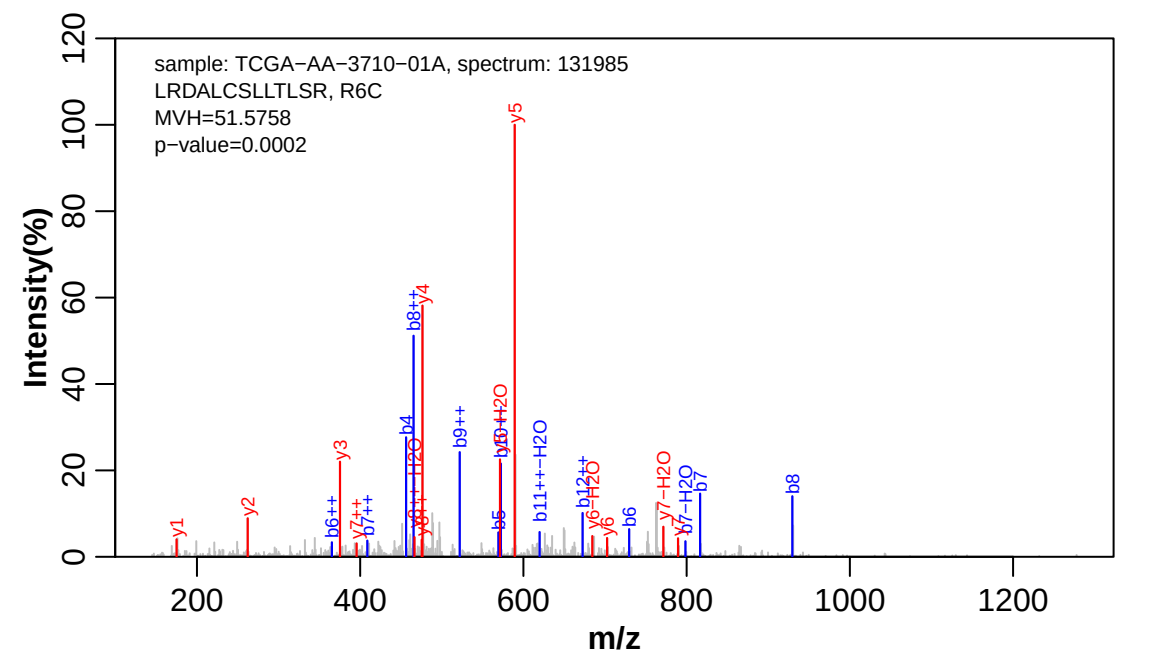

sample: TCGA−AA−3710−01A, spectrum: 60967
LCLDAMHGVVGPYVK, R2C
MVH=37.9772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
b3
b4
y10++−H2O
y5−H2O
y5
y12++
y6
y7−H2O
y13++
y14++
y8

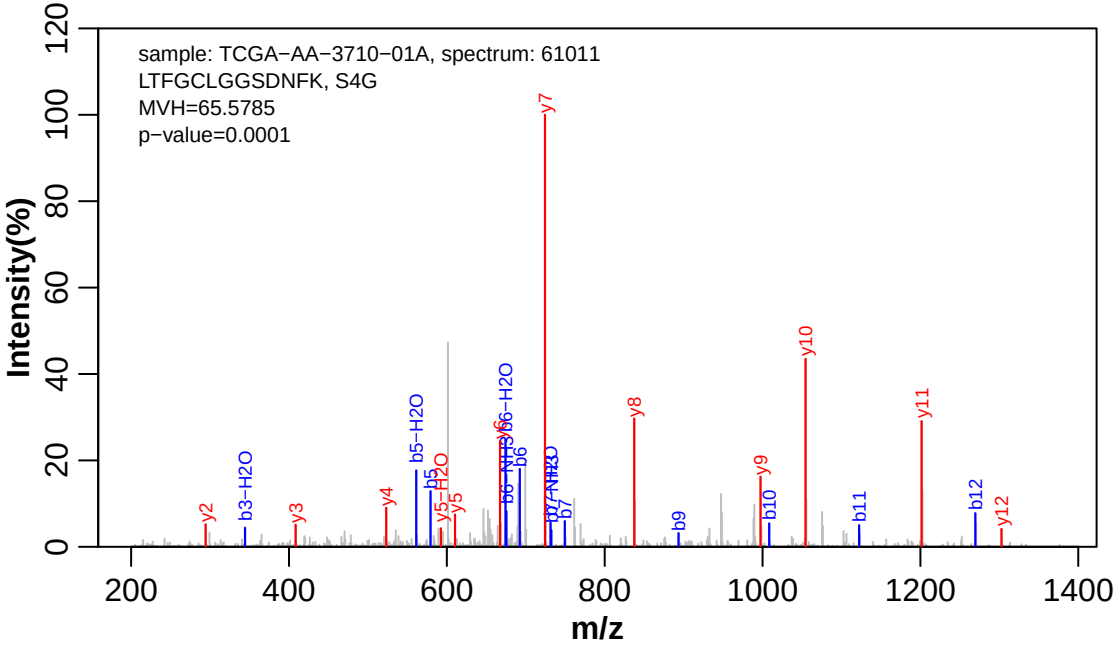

sample: TCGA−AA−3710−01A, spectrum: 25022
LFEEDPAVGALVLTGGDK, T1I
MVH=83.2222
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7−H2O
b7−NH3
b7
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

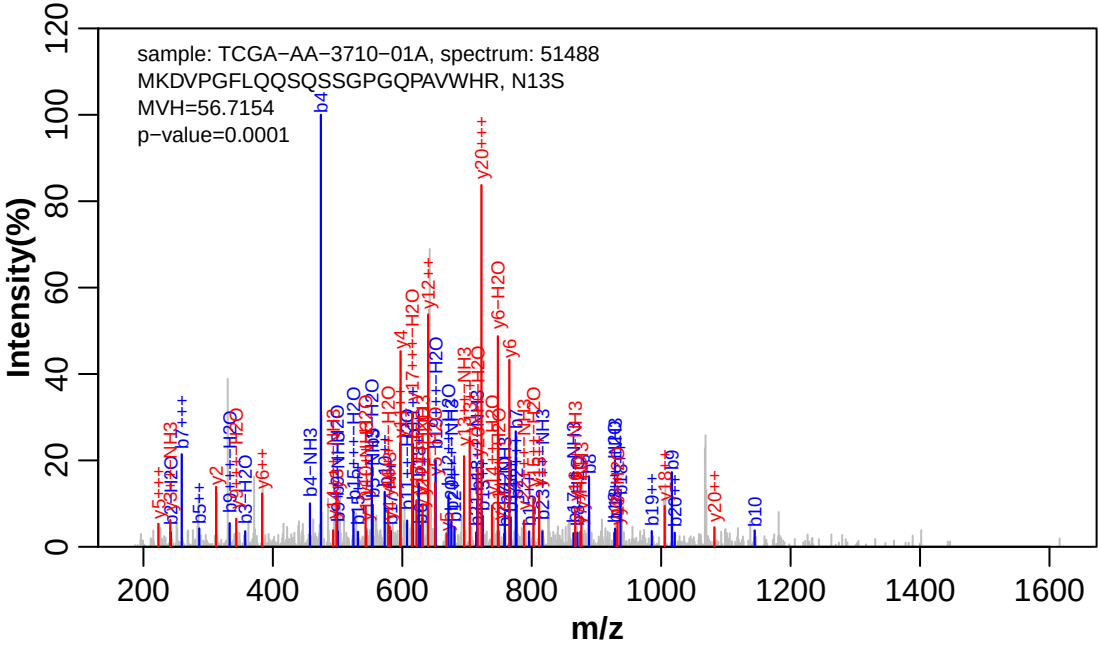

sample: TCGA−AA−3710−01A, spectrum: 31609
LHVLVEPDHFK, Q2H
MVH=64.0628
p−value=0.0001
Intensity(%)
m/z
y6++i2
y5++
b4
y7++
b5
y6++
y5
y1−NH3
b4++
b2
b5++
y7+++
y5++−H2O
y6+++−NH3
b6++

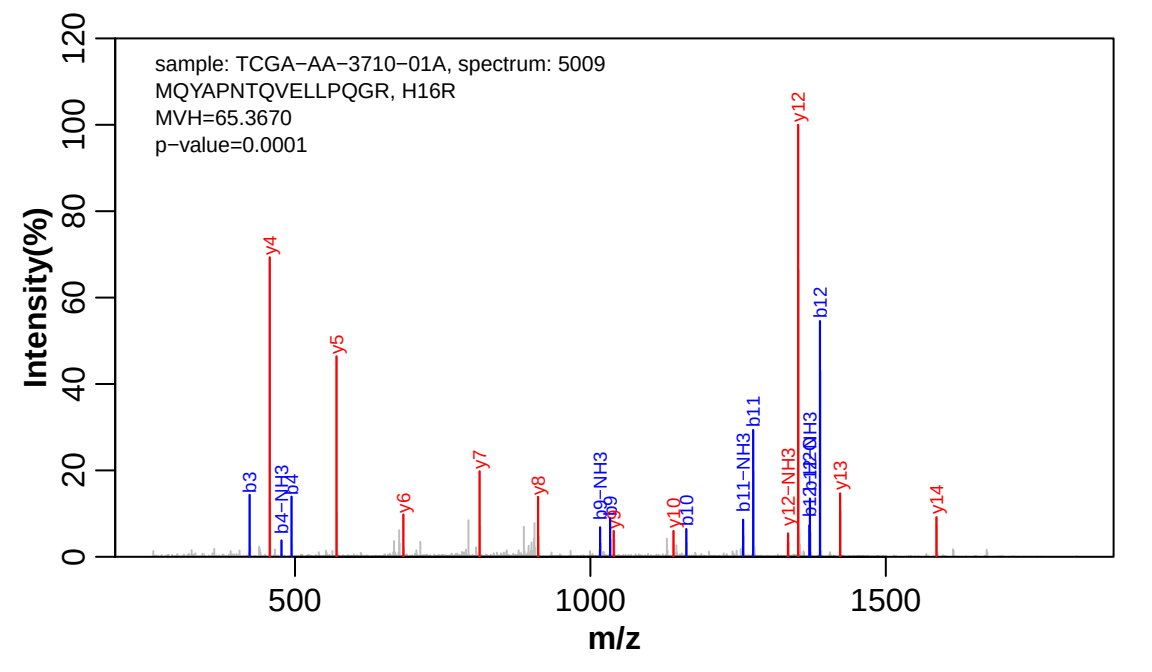

sample: TCGA−AA−3710−01A, spectrum: 89016
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=30.0545
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5++−H2O
y3
y8++−NH3
b4−H2O
y4−NH3
y4
y5−NH3
y5−H2O
y11+++
y11+++−NH3
y8+++
b12++−NH3
b12++
y12++
y13+++−H2O
y13+++
y14++−NH3
y14++−H2O
y14++
y7
b14++
b15++−H2O
b15++
y8
b17++−NH3
b17++
b9−H2O
b9
b18++
y9
y18++
b10
b20++−H2O
b20++
b21++−H2O
b21++
y10
y11
b11−H2O
b11
y15−H2O

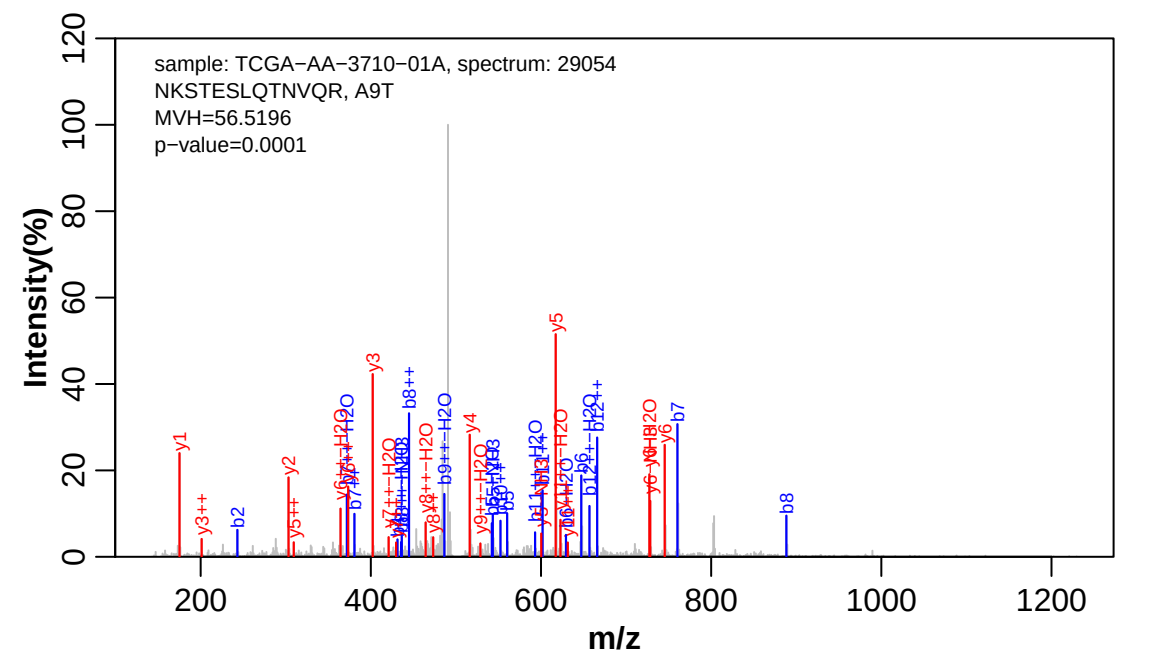

sample: TCGA−AA−3710−01A, spectrum: 75472
LQELTPSSGDPGEHDPASTHK, P4L
MVH=50.1939
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3++−NH3
b2
y6++
b3
y11++
b7++
b8++−H2O
y13+++−H2O
b10++−NH3
b10++−H2O
y16+++−H2O
y5
b5
y13++
b14++−H2O
y14++
y16++−H2O
b10

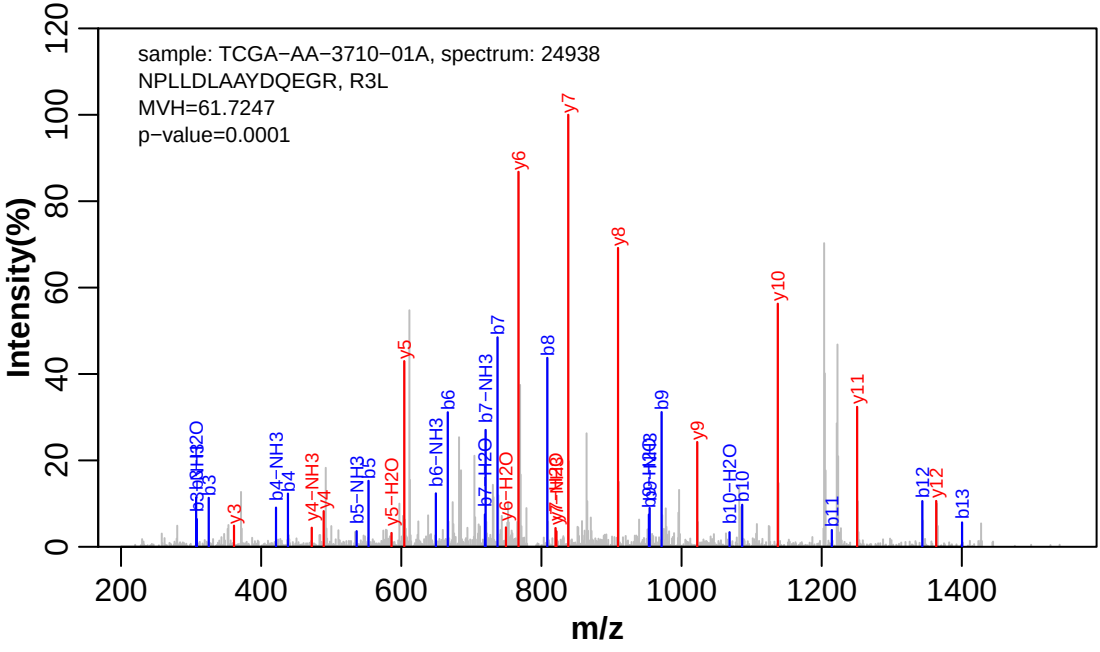

sample: TCGA−AA−3710−01A, spectrum: 131985
LRDALCSLLTLSR, R6C
MVH=51.5758
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2
y3
b6++
y4++
b7++
b8++
y4
b4
y8++−H2O
y8++
b9++
y5
y10+H2O
b5
b11++−H2O
b12++
y6−H2O
y6
b6
y7−H2O
y7
b7−H2O
b7
b8

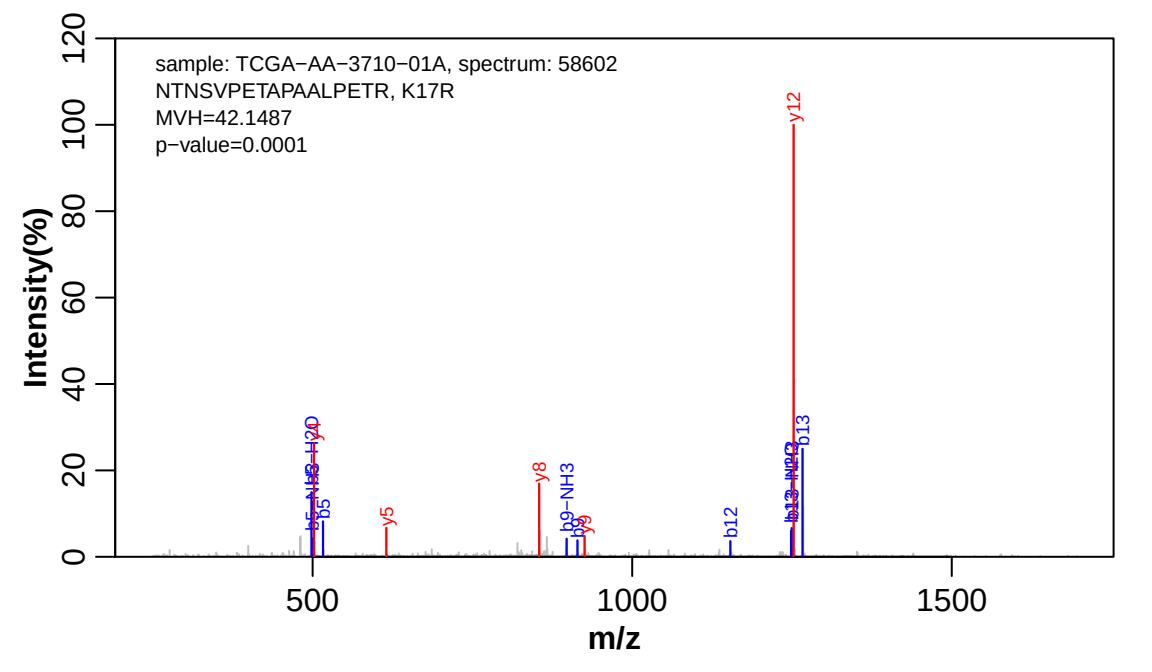

sample: TCGA−AA−3710−01A, spectrum: 61011
LTFGCLGGSDNFK, S4G
MVH=65.5785
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
y3
y4
b5−H2O
b5
y5−H2O
y5
b6−NH3
b6−H2O
b6
y7
y8
b9
y9
b10
y10
b11
y11
b12
y12

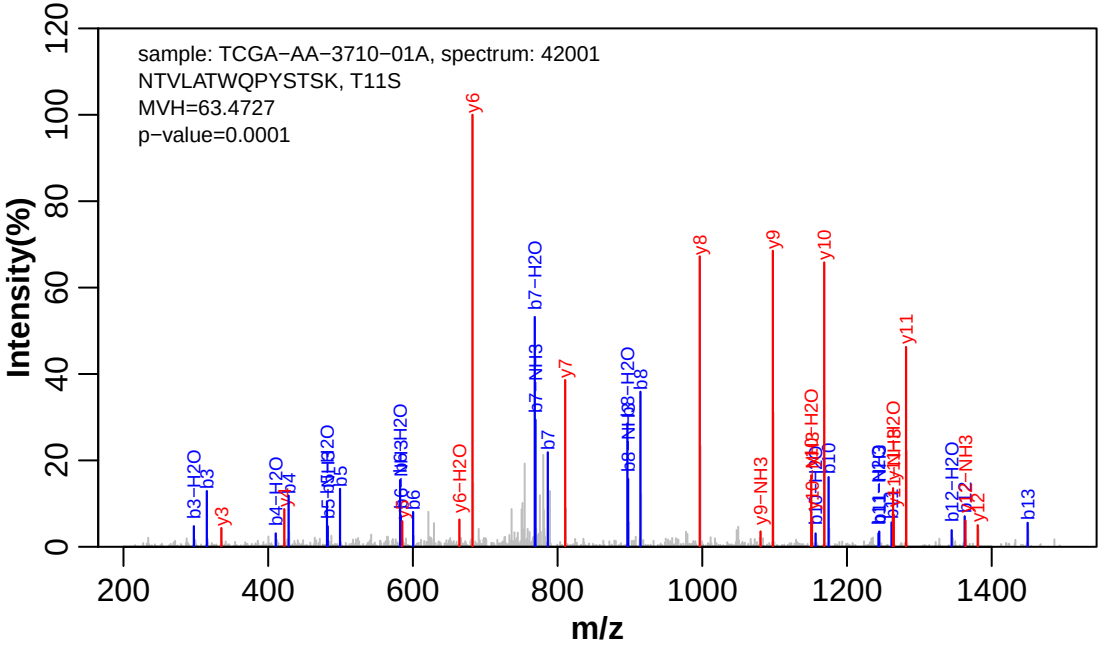

sample: TCGA−AA−3710−01A, spectrum: 51488
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=56.7154
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
y20+++
y6−H2O
y6
y4
y12++
b4−NH3
b7+++
b5++
y2
y6++
y5+++
y20++
b10
b19++

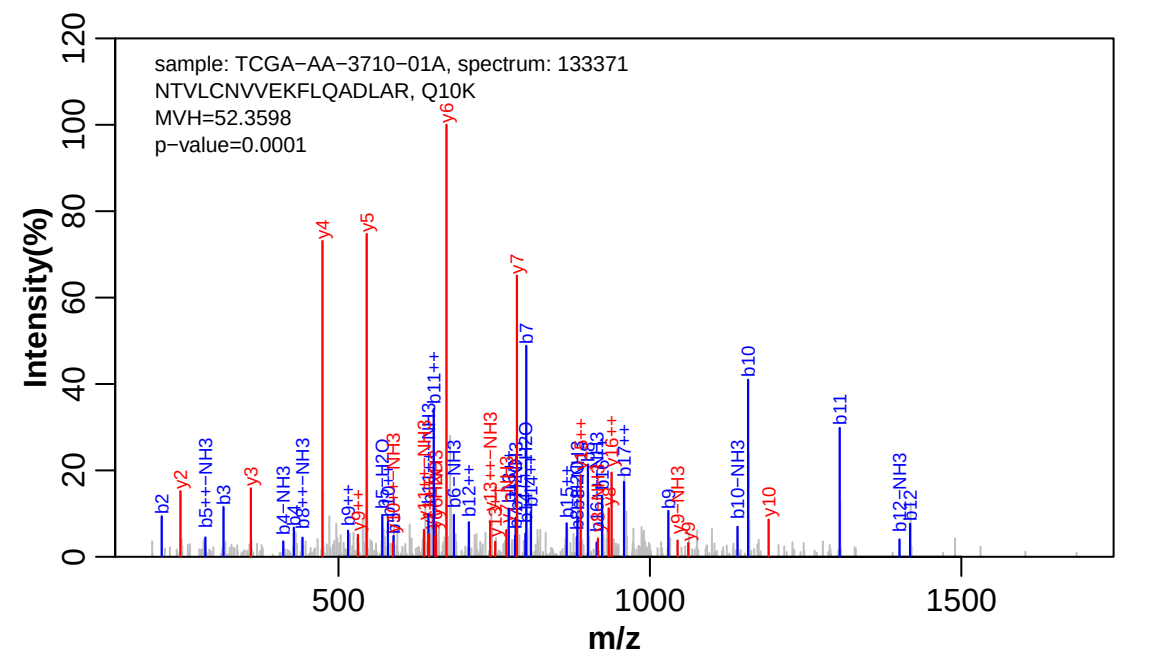

sample: TCGA−AA−3710−01A, spectrum: 5009
MQYAPNTQVELLPQGR, H16R
MVH=65.3670
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y7
y8
y9
y10
y12
y13
y14
y12−NH3
b3
b4
b4−NH3
b8−NH3
b10
b11
b11−NH3
b12

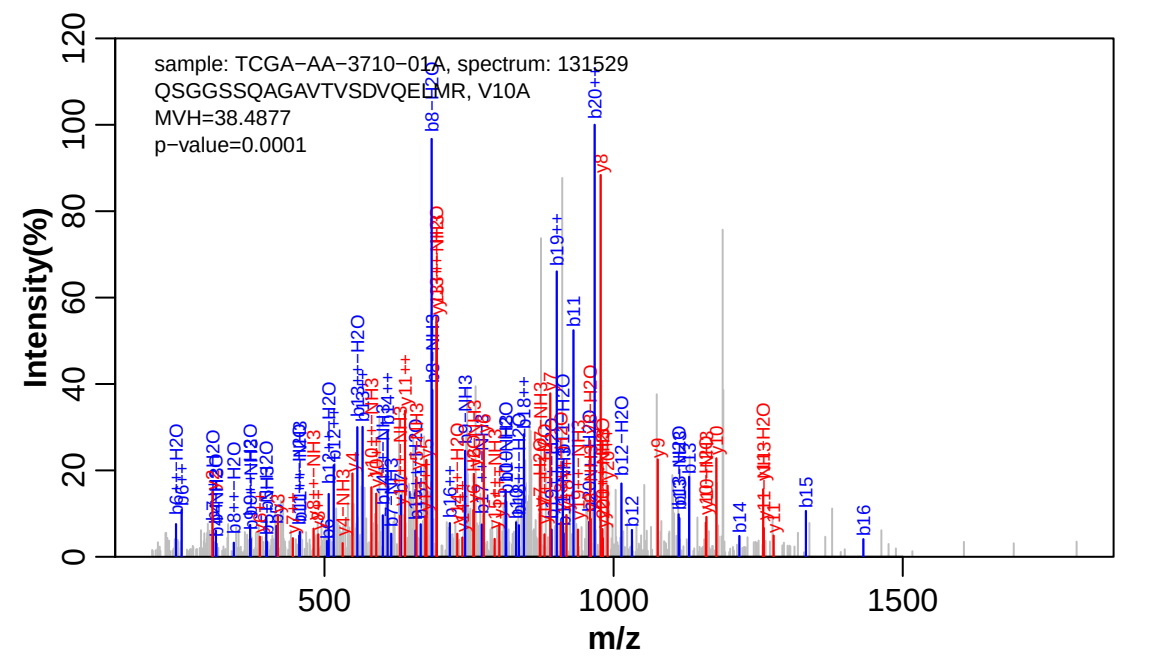

sample: TCGA−AA−3710−01A, spectrum: 29054
NKSTESLQTNVQR, A9T
MVH=56.5196
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y3++
b2
y2
y5++
y3
b8++
y4
y5
b7
y6
b8

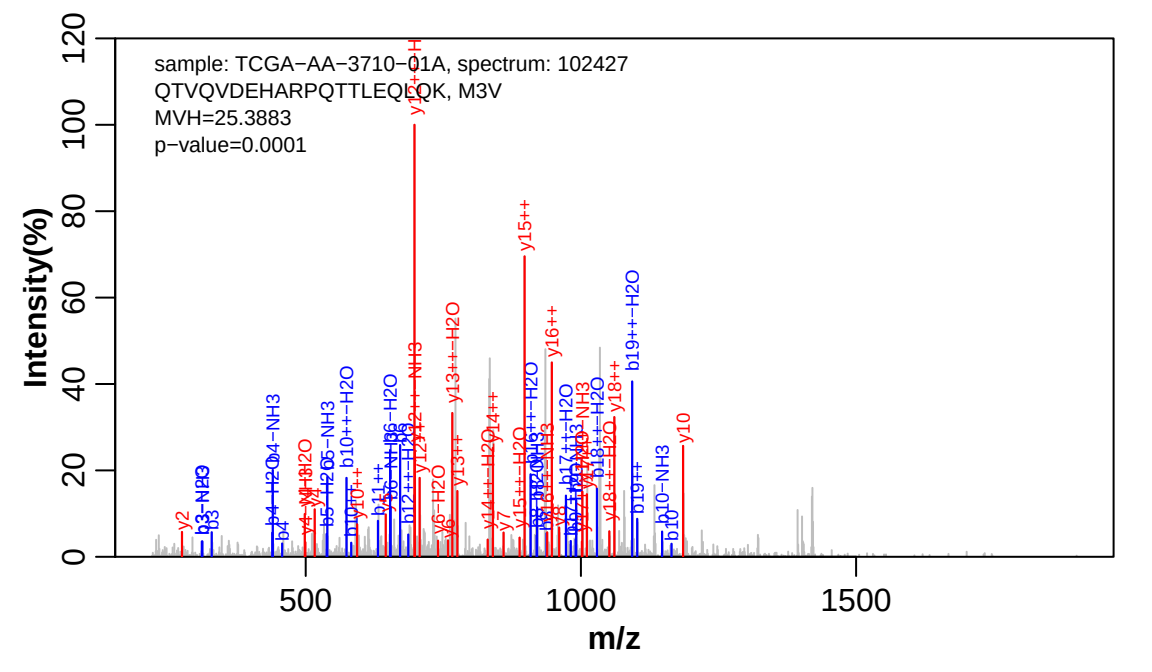

sample: TCGA−AA−3710−01A, spectrum: 24938
NPLLDLAAYDQEGR, R3L
MVH=61.7247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y8
y10
y5
b7
b8
b6
b9
y9
y11
b12
y12
b13
b11
b10
b10−H2O
b7−NH3
b6−NH3
b5−NH3
b4−NH3
y4−NH3
y5−H2O
y6−H2O
b7−H2O
b3
y3
b4
y4
b5
b2−NH3
b2−H2O

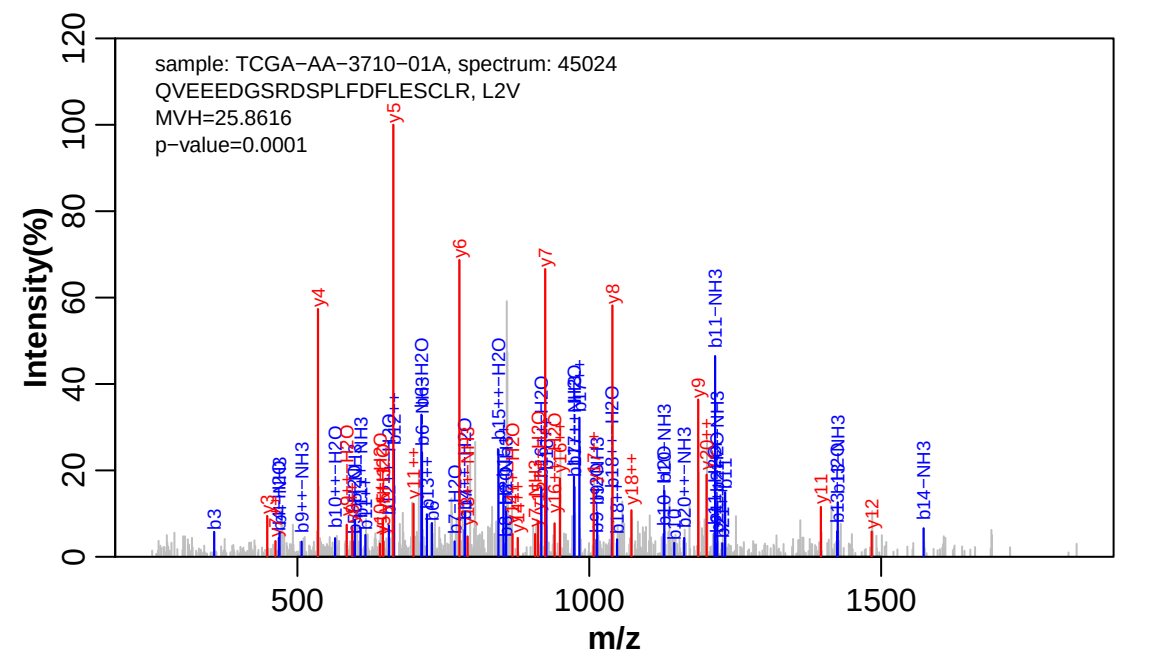

sample: TCGA−AA−3710−01A, spectrum: 58602
NTNSVPETAPAALPETR, K17R
MVH=42.1487
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b12
b13
b5
y4

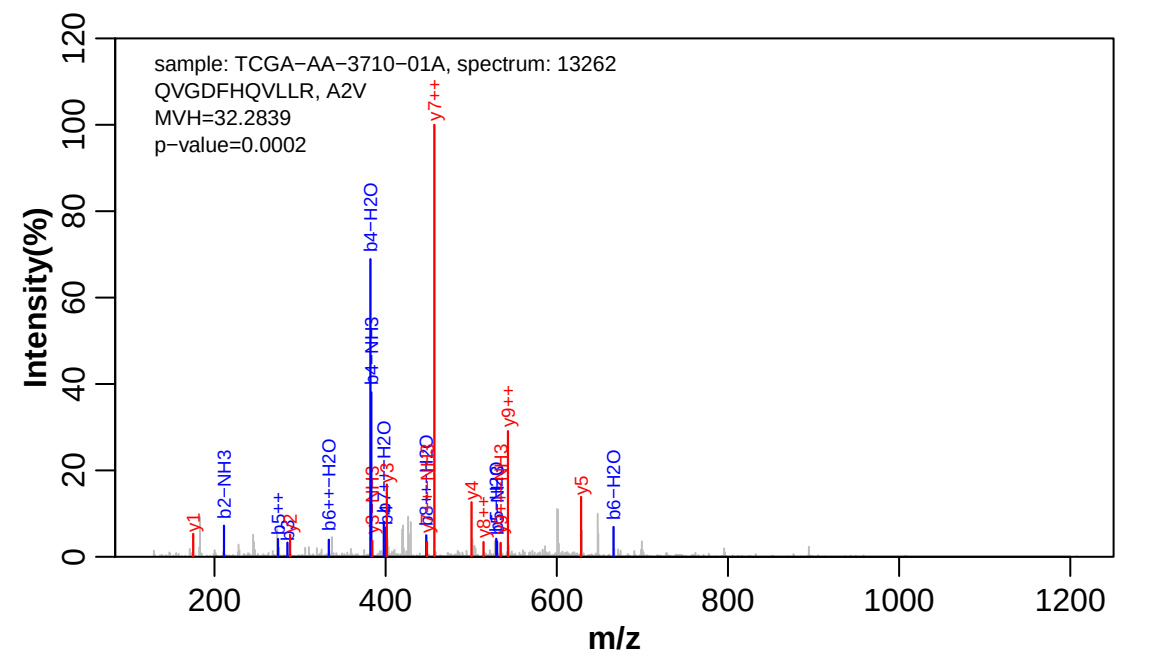

sample: TCGA−AA−3710−01A, spectrum: 42001
NTVLATWQPYSTSK, T11S
MVH=63.4727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y8
y9
y10
y11
y7
b7−H2O
b7−NH3
b8−H2O
b3−H2O
b4−H2O
b5−H2O
b6−H2O
y6−H2O
y9−NH3
b12−H2O
b12−NH3
b13
y3
y4
b5
b6
b7
b8
b10
y12

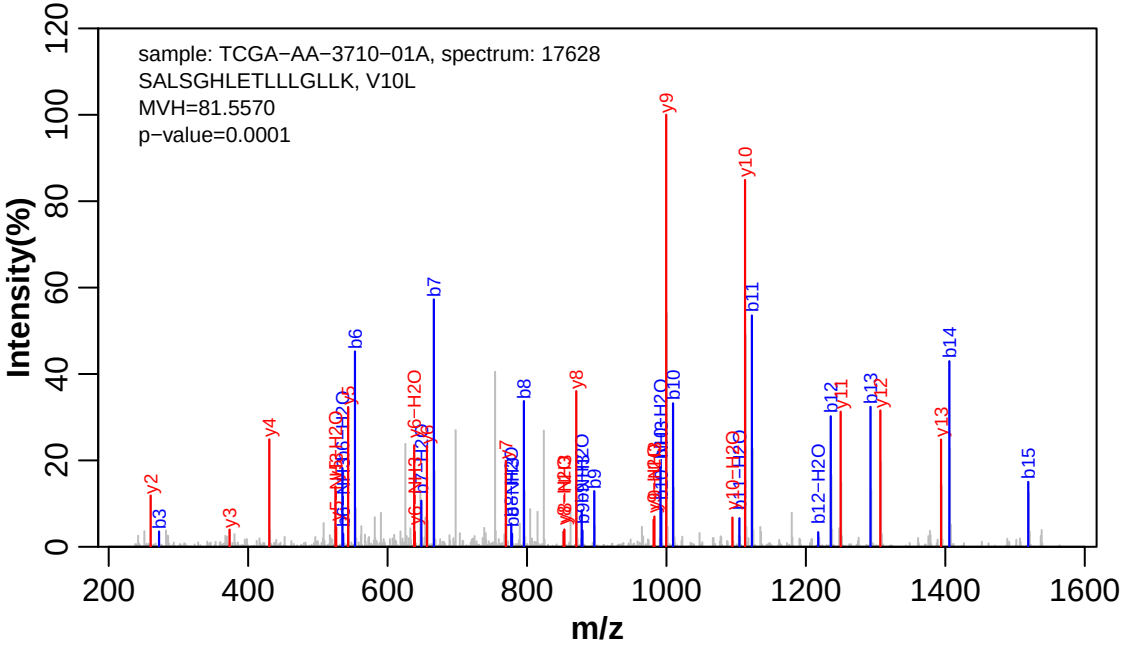

sample: TCGA−AA−3710−01A, spectrum: 133371
NTVLCNVVEKFLQADLAR, Q10K
MVH=52.3598
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
b5++−NH3
b3
y3
b4−NH3
b8++−NH3
y4
b9++
y5
b5−H2O
b10−NH3
b11++
y6
b6−NH3
b12++
y13++−NH3
b7
y7
b14++
b15++
b16++
b17++
y16++
y9−NH3
b9
b10−NH3
b10
y10
b11
b12−NH3
b12

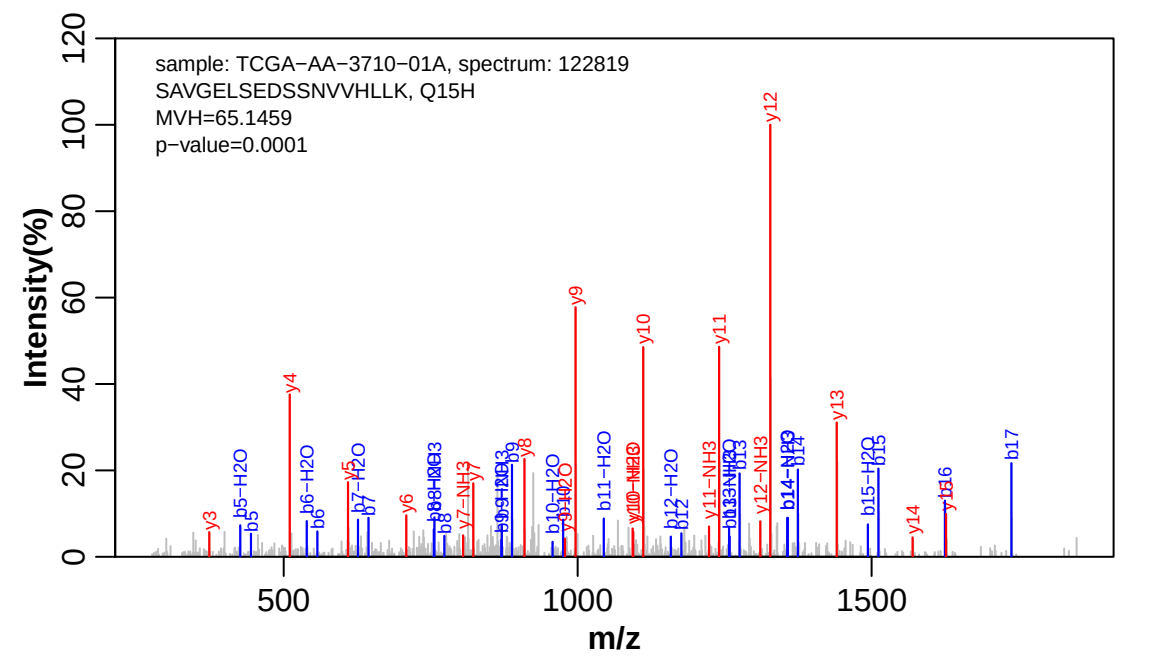

sample: TCGA−AA−3710−01A, spectrum: 131529
QSGGSSQAGAVTVSDVQELMR, V10A
MVH=38.4877
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

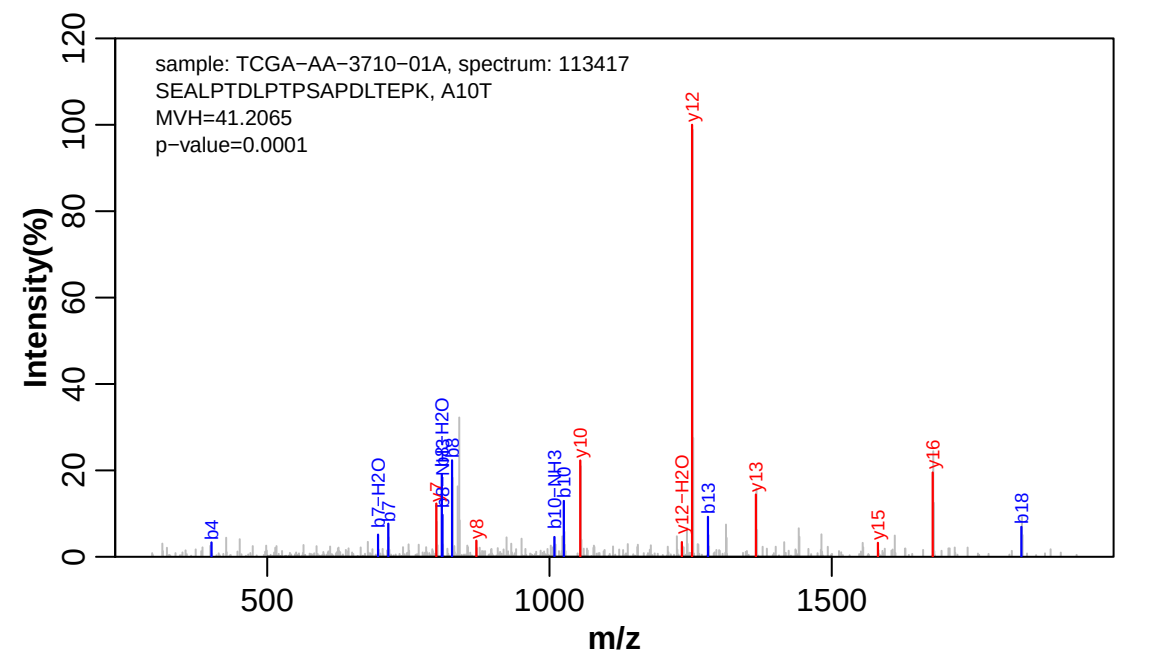

sample: TCGA−AA−3710−01A, spectrum: 102427
QTVQVDEHARPQTTLEQLQK, M3V
MVH=25.3883
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b3
b4
y5
b5
b10++
b11++
y12++
y13++
y14++
y7
y15++
y16++
b18++
y18++
b19++
b10
y10

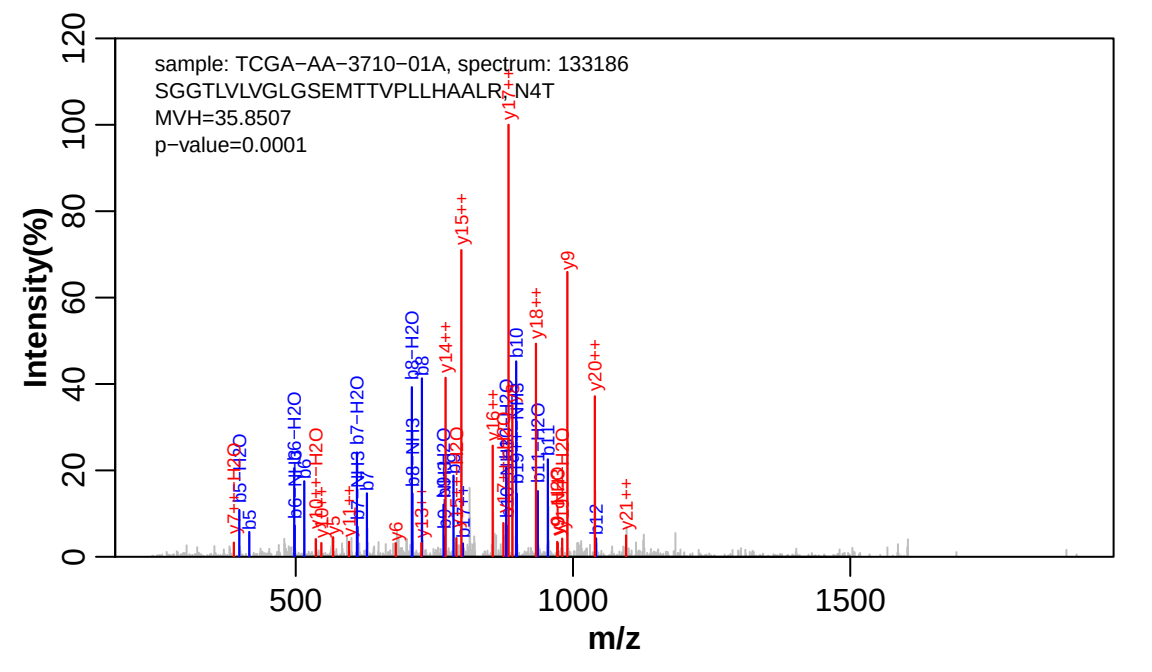

sample: TCGA−AA−3710−01A, spectrum: 45024
QVEEEDGSRDSPLFDFLESCLR, L2V
MVH=25.8616
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y6
y4
y7
y8
y9
y11
y12
y18++
b3
b9++−NH3
b10++−H2O
b10++−NH3
b11−NH3
b14−NH3
b7−H2O
b15++−H2O
b18++−H2O
b20++−NH3

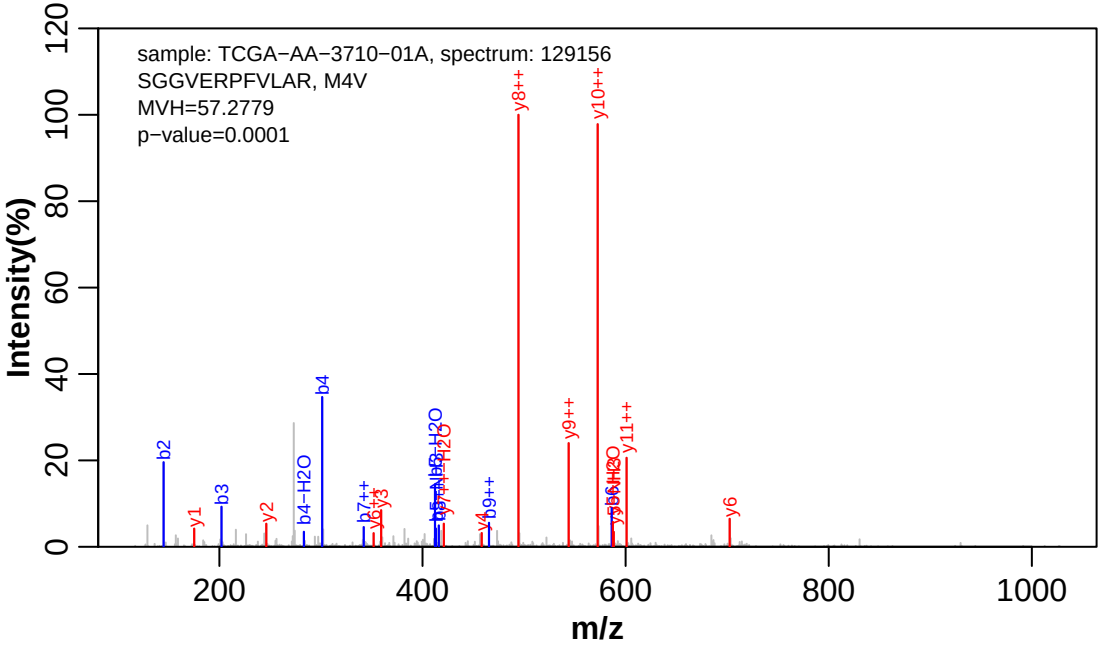

sample: TCGA−AA−3710−01A, spectrum: 13262
QVGDFHQVLLR, A2V
MVH=32.2839
p−value=0.0002
Intensity(%)
m/z
y7++
b4−H2O
b4−NH3
y9++
y5
b6−H2O
b2−NH3
y1
b5++
b6++−H2O
y3−H2O
y4
y8++
b6−y3−H2O
y8++−NH3
b5++−H2O
b5++−NH3
0
20
40
60
80
100
120
200
400
600
800
1000
1200

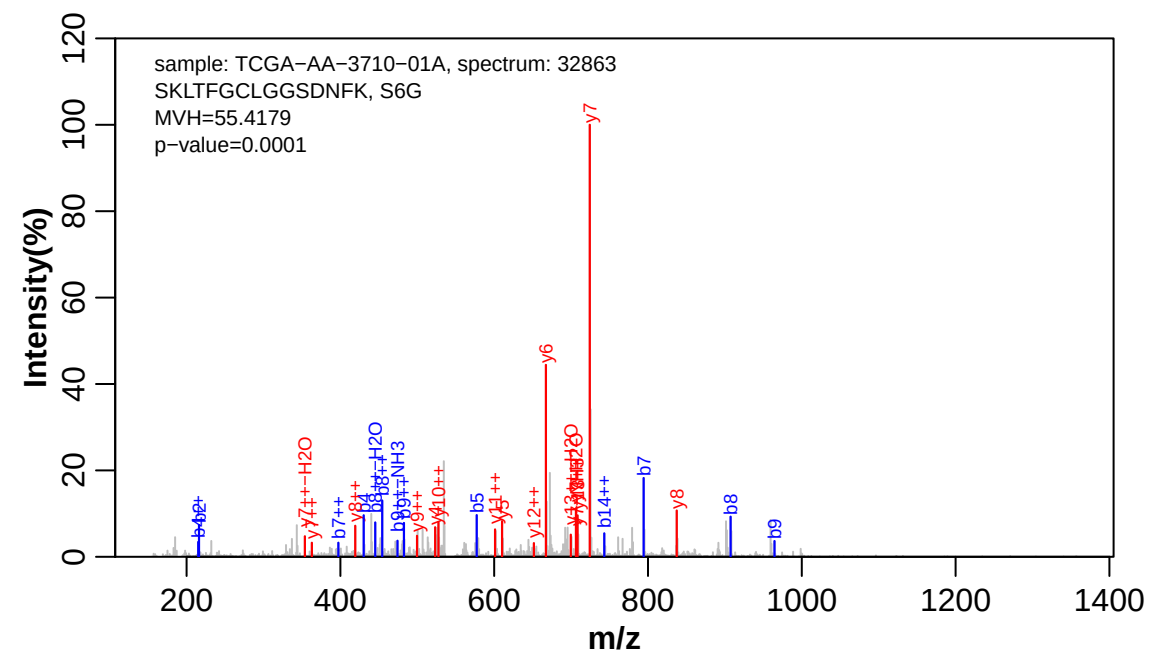

sample: TCGA−AA−3710−01A, spectrum: 17628
SALSGHLETLLLGLLK, V10L
MVH=81.5570
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y10
b11
b7
b6
b8
y8
b10
b14
y4
y2
b3
y3
y5
y6−H2O
b12−H2O
b12
y11
b13
y12
y13
b15
b9

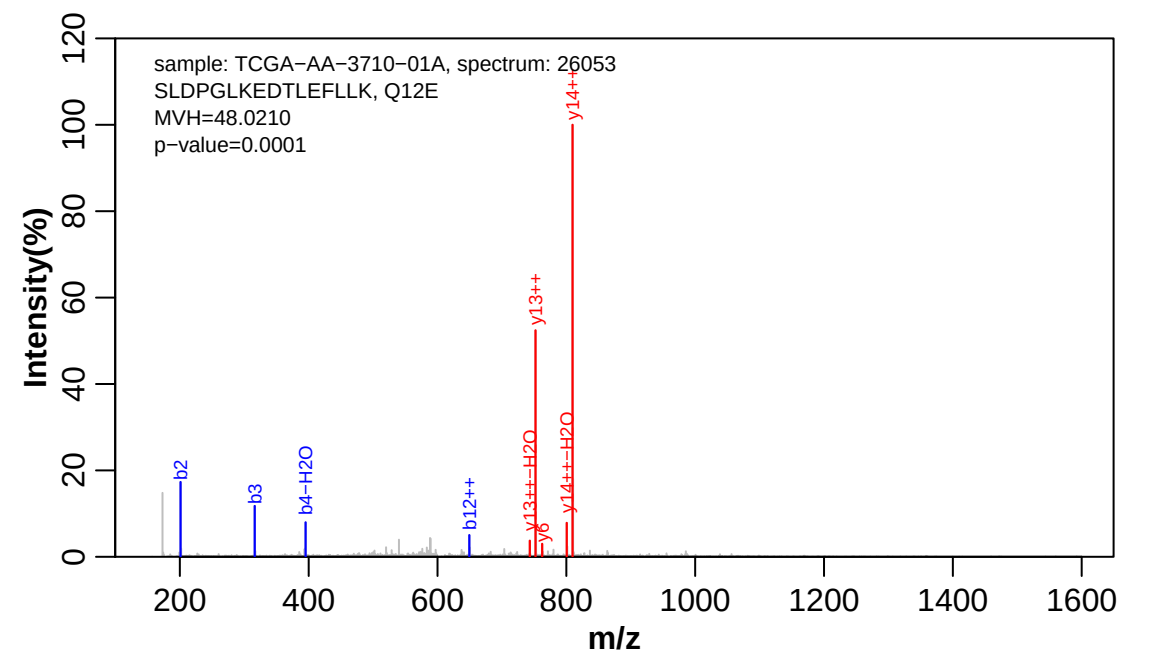

sample: TCGA−AA−3710−01A, spectrum: 122819
SAVGELSEDSSNVVHLLK, Q15H
MVH=65.1459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7−H2O
b7
y6
b8
y7−NH3
y7
b9
y8
b10−H2O
y9
b11−H2O
y10
b12−H2O
b12
y11−NH3
y11
y12−NH3
y12
y13
b15−H2O
b15
y14
b17

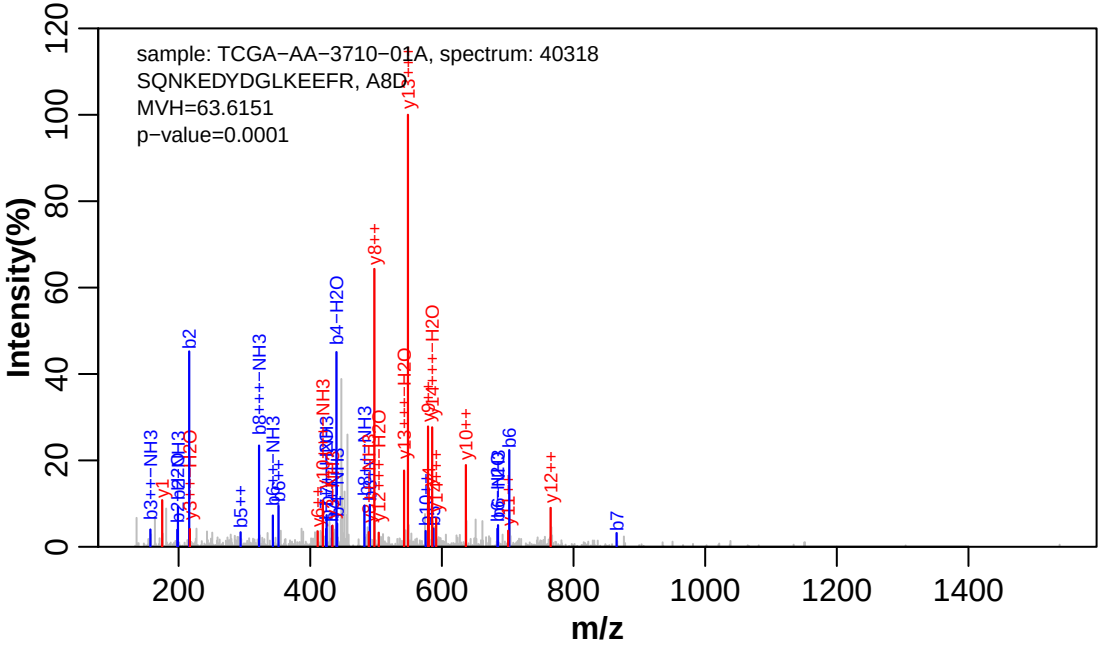

sample: TCGA−AA−3710−01A, spectrum: 113417
SEALPTDLPTPSAPDLTEPK, A10T
MVH=41.2065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
b7−H2O
b7
b8−NH3
b8
b8−H2O
y8
b10−NH3
b10
y10
y12−H2O
y12
b13
y13
y15
y16
b18

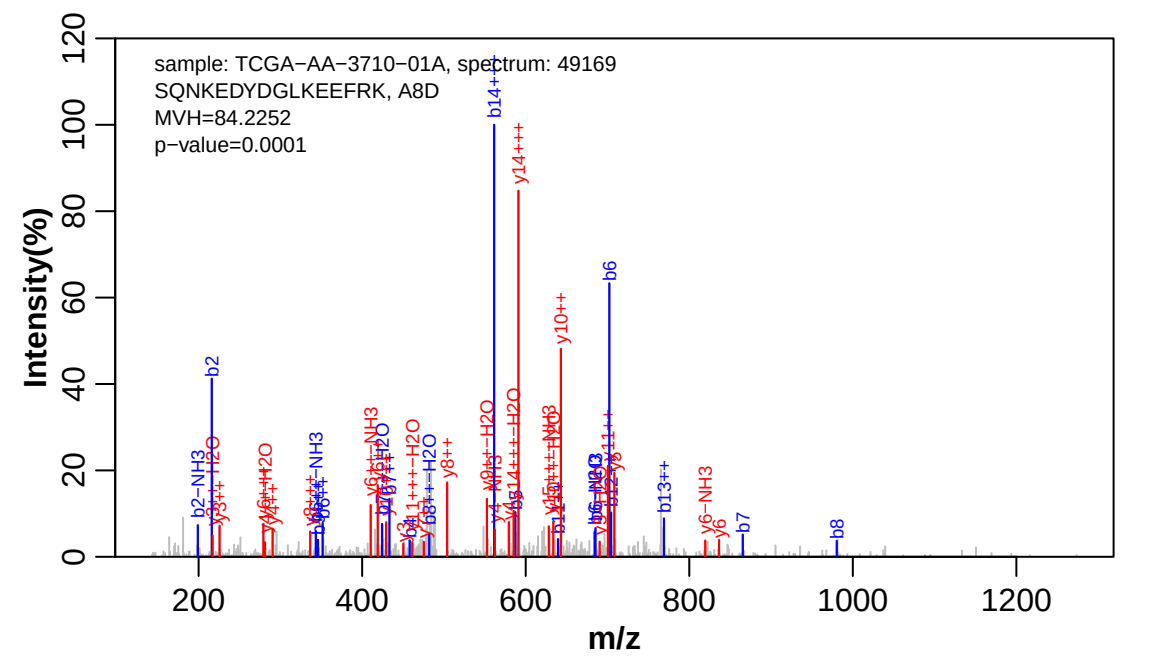

sample: TCGA−AA−3710−01A, spectrum: 133186
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=35.8507
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y14++
y9
y18++
y20++
y21++
b10
b12
b8
b8−H2O
b6−NH3
b6−H2O
b7−H2O
b7
y6
y5
y4
b5
b5−H2O

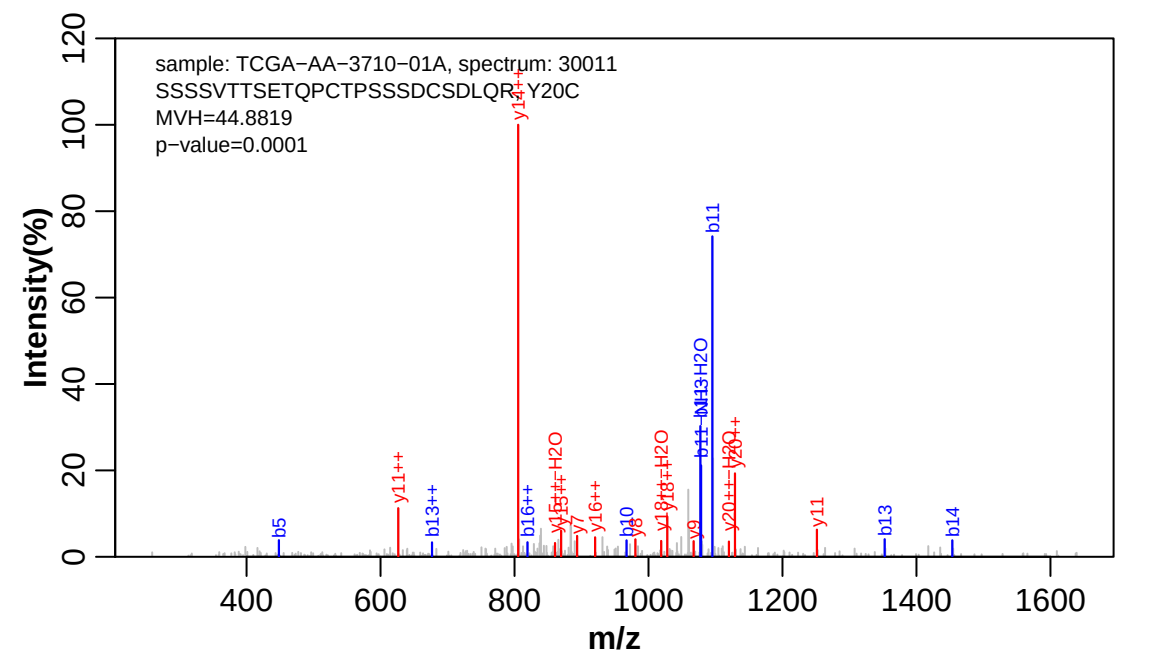

sample: TCGA−AA−3710−01A, spectrum: 129156
SGGVERPFVLAR, M4V
MVH=57.2779
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y8++
y10++
y9++
y11++
b4
b2
b3
y1
y2
b4−H2O
y6

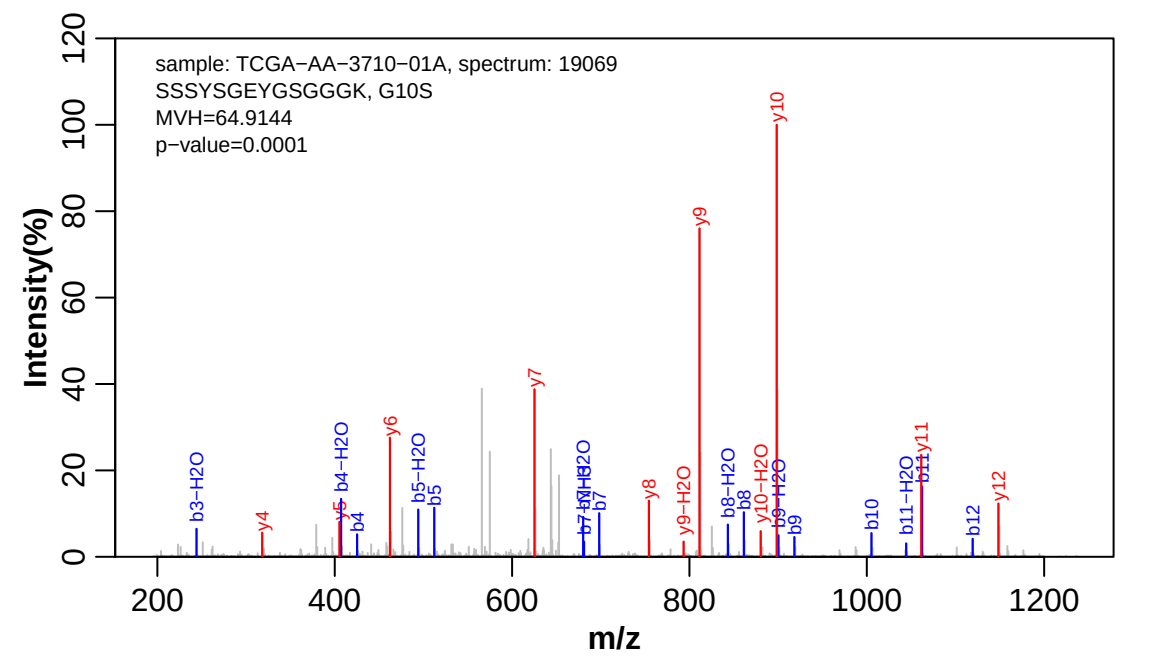

sample: TCGA−AA−3710−01A, spectrum: 32863
SKLTFGCLGGSDNFK, S6G
MVH=55.4179
p−value=0.0001
Intensity(%)
m/z
y7
y6
y8
b7
b8
b9
b5
b14++
y12++
b7++
y7++−H2O
y8++
b8++
b8++−H2O
b9++−NH3
y9++
y10++
b5++
y5++
b2+
y7++
b8++−H2O
y8++−H2O
b14++−H2O
y13++−H2O
y13++−NH3
y14++−H2O
y14++−NH3
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

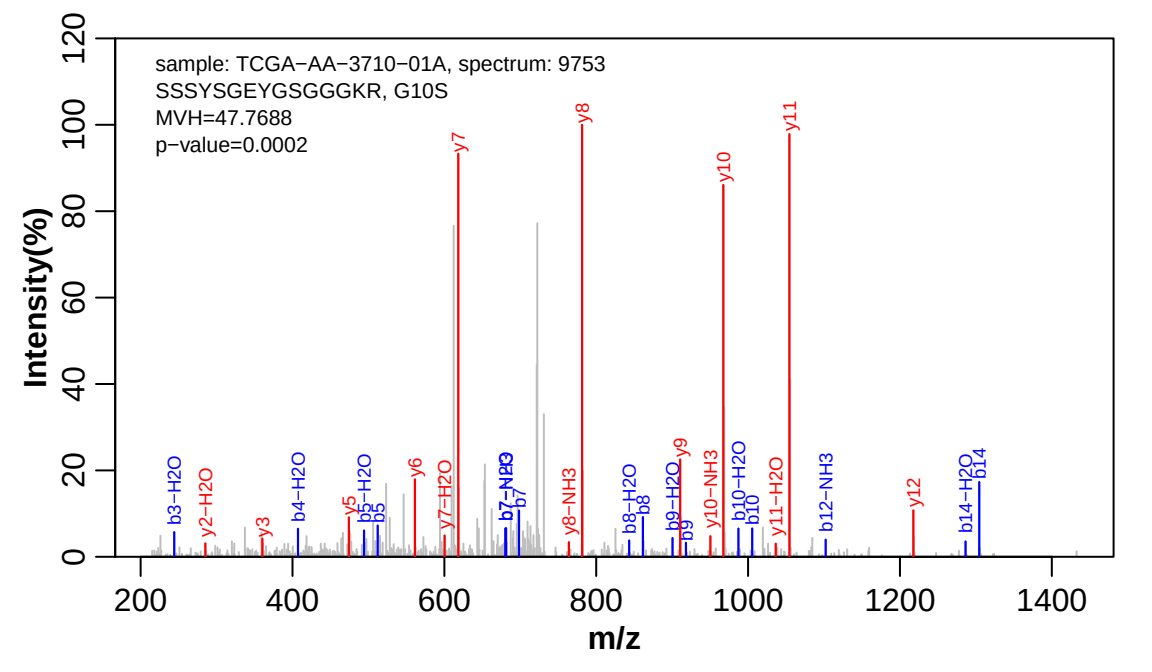

sample: TCGA−AA−3710−01A, spectrum: 26053
SLDPGLKEDTLEFLLK, Q12E
MVH=48.0210
p−value=0.0001
Intensity(%)
m/z
b2
b3
b4−H2O
b12++
y13++−H2O
y6
y13++
y14++−H2O
y14++

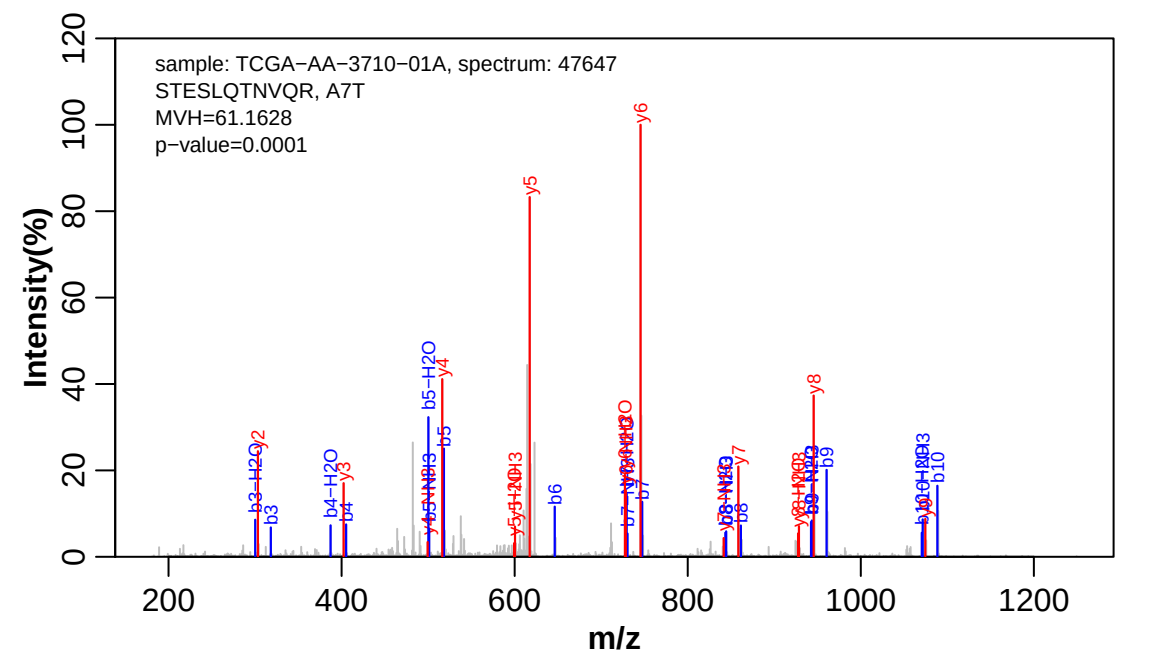

sample: TCGA−AA−3710−01A, spectrum: 40318
SQNKEDYDGLKEEFR, A8D
MVH=63.6151
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
y8++
b2
b4−H2O
b8+++−NH3
y13+++−H2O
y14+++−H2O
y10++
b6
y12++
b7
b3++−NH3
y1
b5++
b6++−NH3

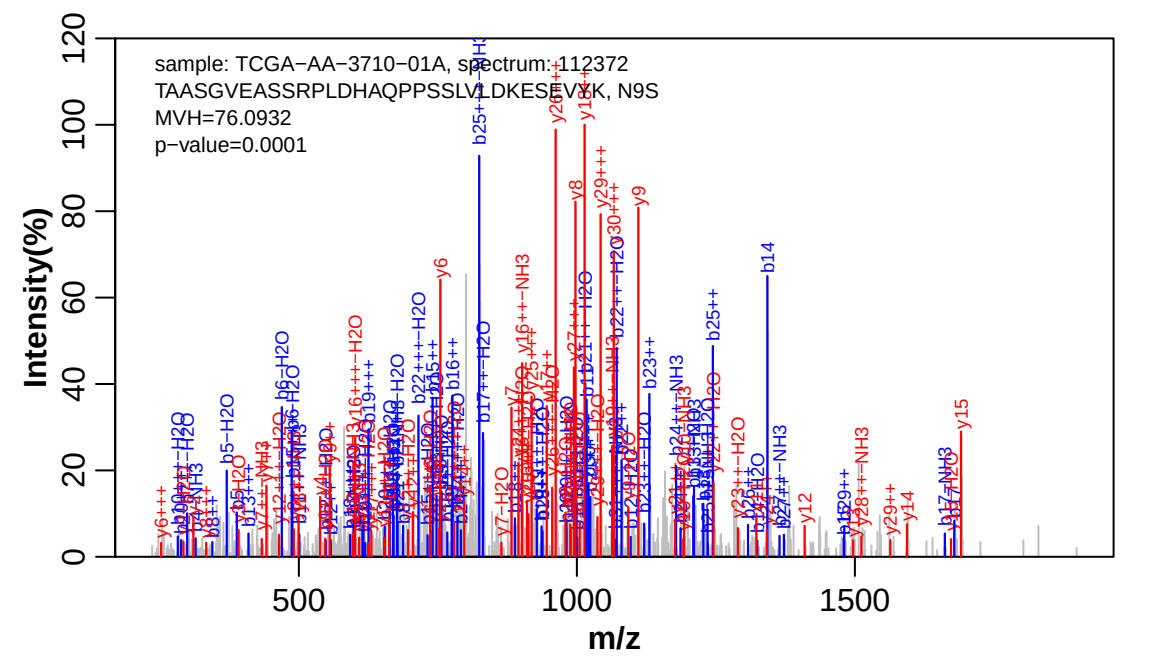

sample: TCGA−AA−3710−01A, spectrum: 49169
SQNKEDYDGLKEEFRK, A8D
MVH=84.2252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b14++
y14+++
b2
b6
y10++
b13++
y6−NH3
y6
b7
b8
y8++
b2−NH3
y3++−H2O

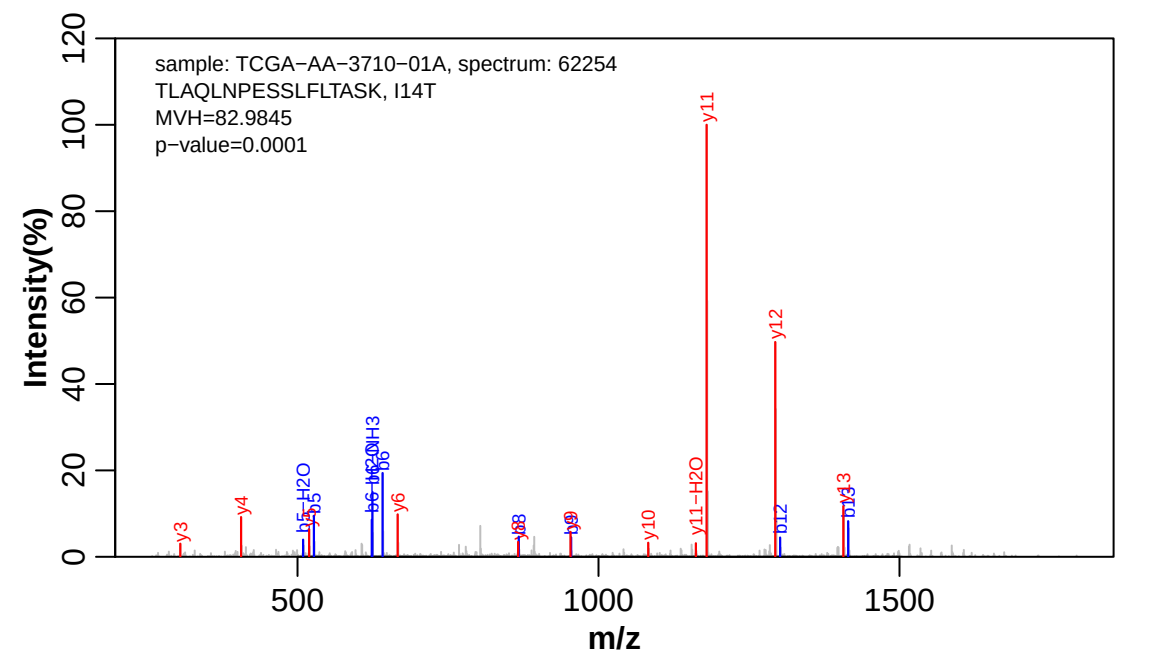

sample: TCGA−AA−3710−01A, spectrum: 30011
SSSSVTTSETQPCTPSSSDCSDLQR, Y20C
MVH=44.8819
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y11++
b13++
b5
b16++
y16++
b10
y8
y7
y9
b11
b11−NH3
b11−H2O
y18++
y18++−H2O
y20++
y20++−H2O
y11
b13
b14

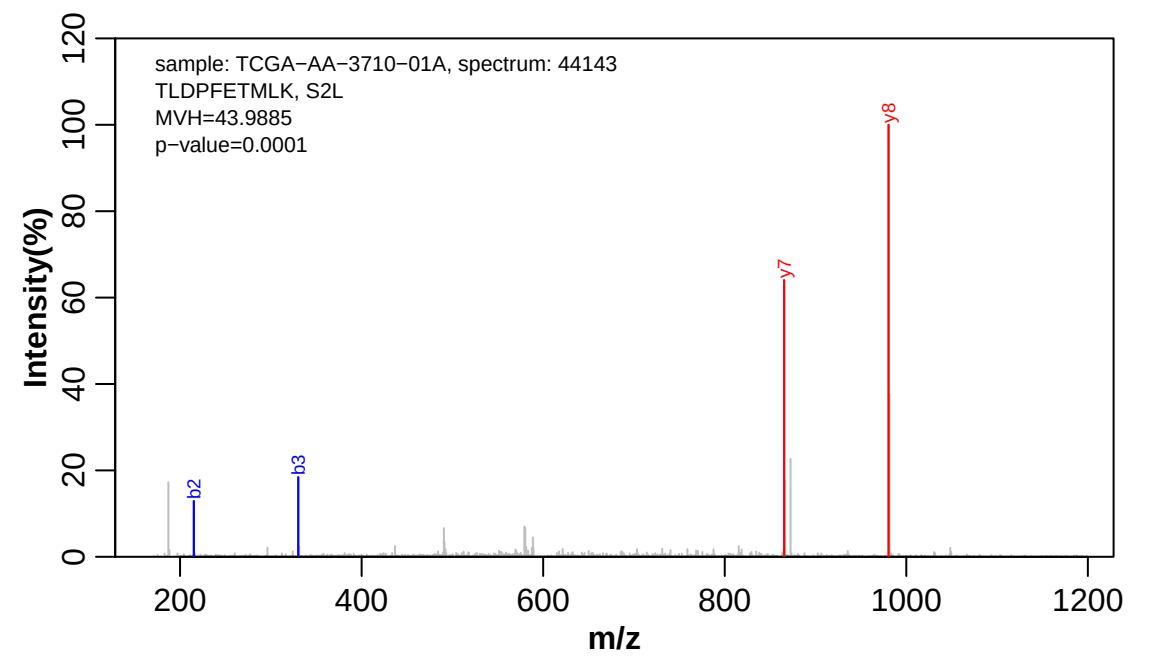

sample: TCGA−AA−3710−01A, spectrum: 19069
SSSYSGEYGSGGGK, G10S
MVH=64.9144
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4−H2O
y5
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y8
y9−H2O
y9
b8−H2O
b8
y10−H2O
y10
b9−H2O
b9
b10
b11−H2O
b11
y11
b12
y12

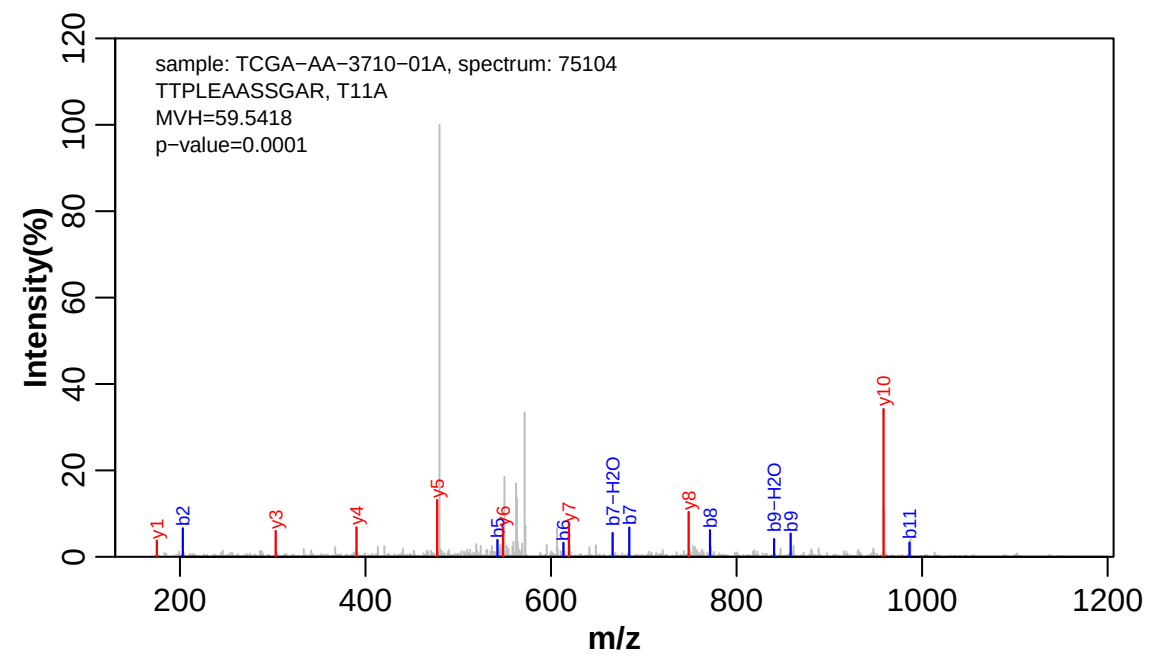

sample: TCGA−AA−3710−01A, spectrum: 9753
SSSYSGEYGSGGGKR, G10S
MVH=47.7688
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2−H2O
y3
b4−H2O
y5
b5−H2O
b5
y6
y7−H2O
y7
b7−NH3
b7
y8−NH3
y8
b8−H2O
b8
b9−H2O
y9
b9
y10−NH3
y10
b10−H2O
b10
y11−H2O
y11
b12−NH3
y12
b14−H2O
b14

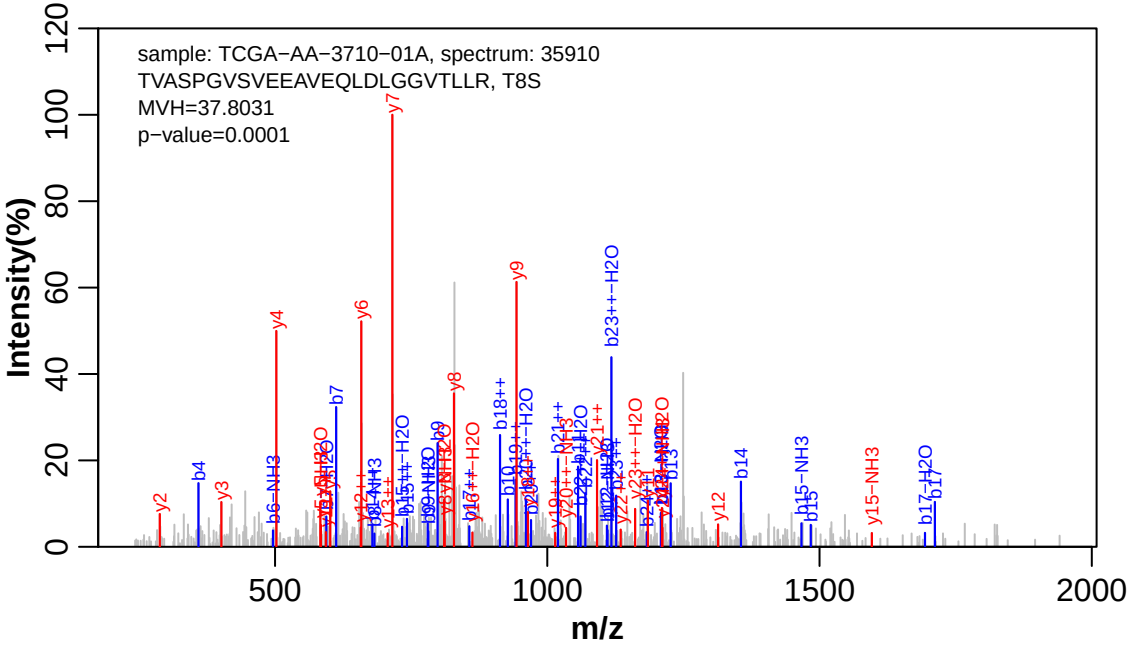

sample: TCGA−AA−3710−01A, spectrum: 47647
STESLQTNVQR, A7T
MVH=61.1628
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y8
y4
b5−H2O
b5
y2
b3−H2O
b3
b4−H2O
y3
b4
b6
y7
b9
b10

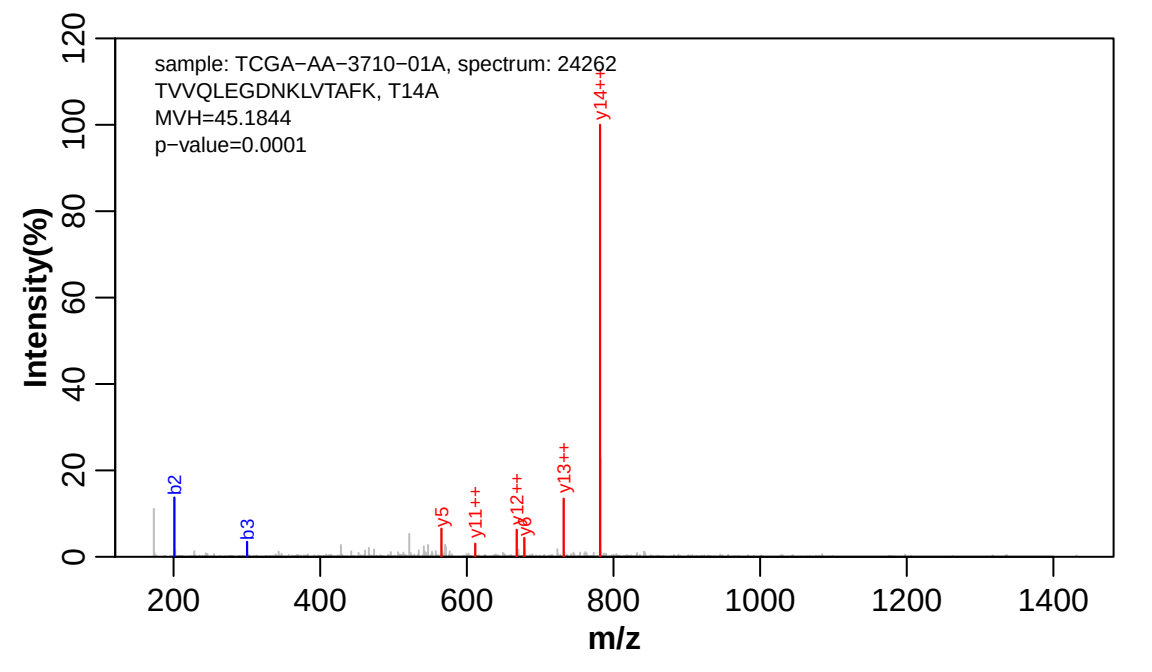

sample: TCGA−AA−3710−01A, spectrum: 112372
TAASGVEASSRPLDHAQPPSSLVLDKESEVVK, N9S
MVH=76.0932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

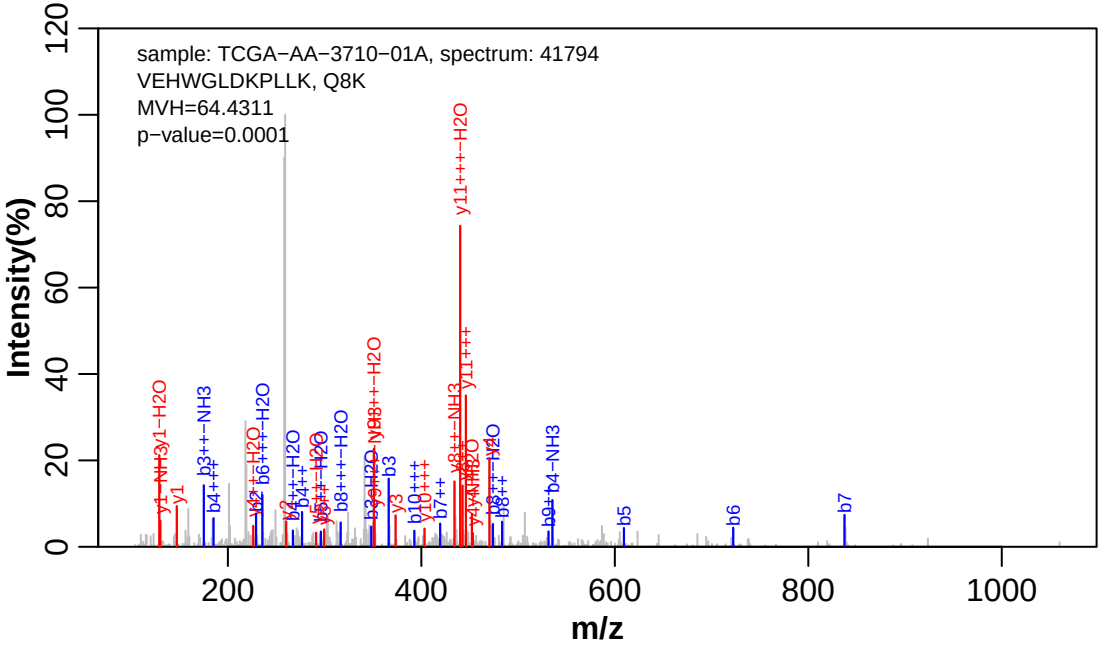

sample: TCGA−AA−3710−01A, spectrum: 62254
TLAQLNPESSLFLTASK, I14T
MVH=82.9845
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b5−H2O
y5
b6−NH3
b6
y6
y8
b9
y9
y10
y11
y11−H2O
y12
b12
b13
b14

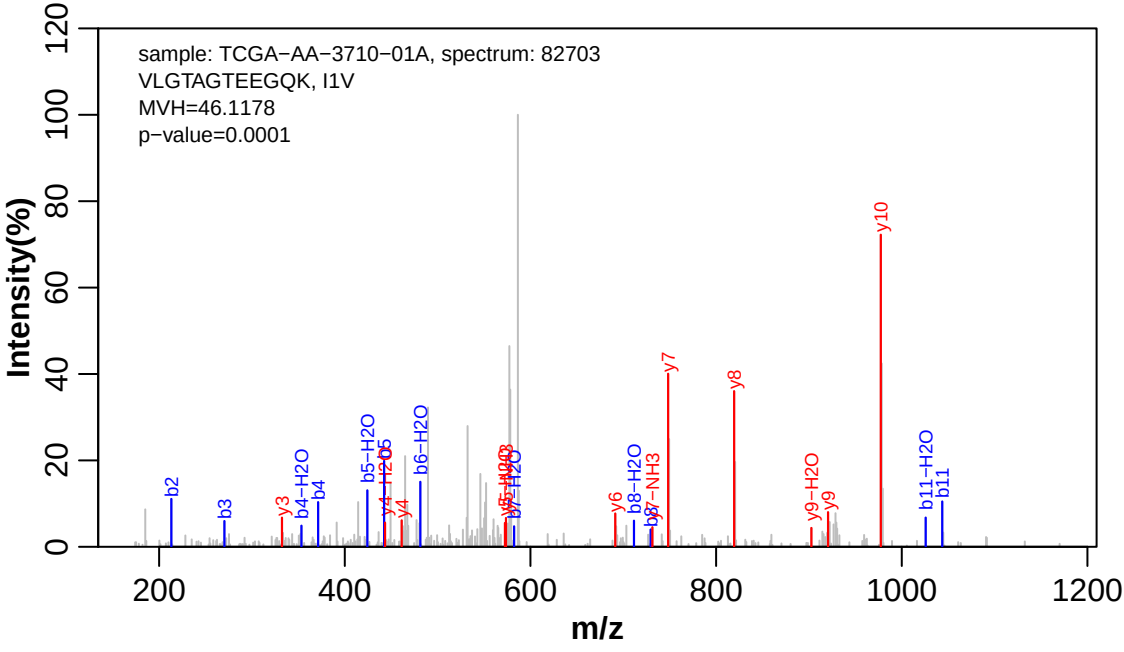

sample: TCGA−AA−3710−01A, spectrum: 44143
TLDPFETMLK, S2L
MVH=43.9885
p−value=0.0001
y8
y7
b3
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

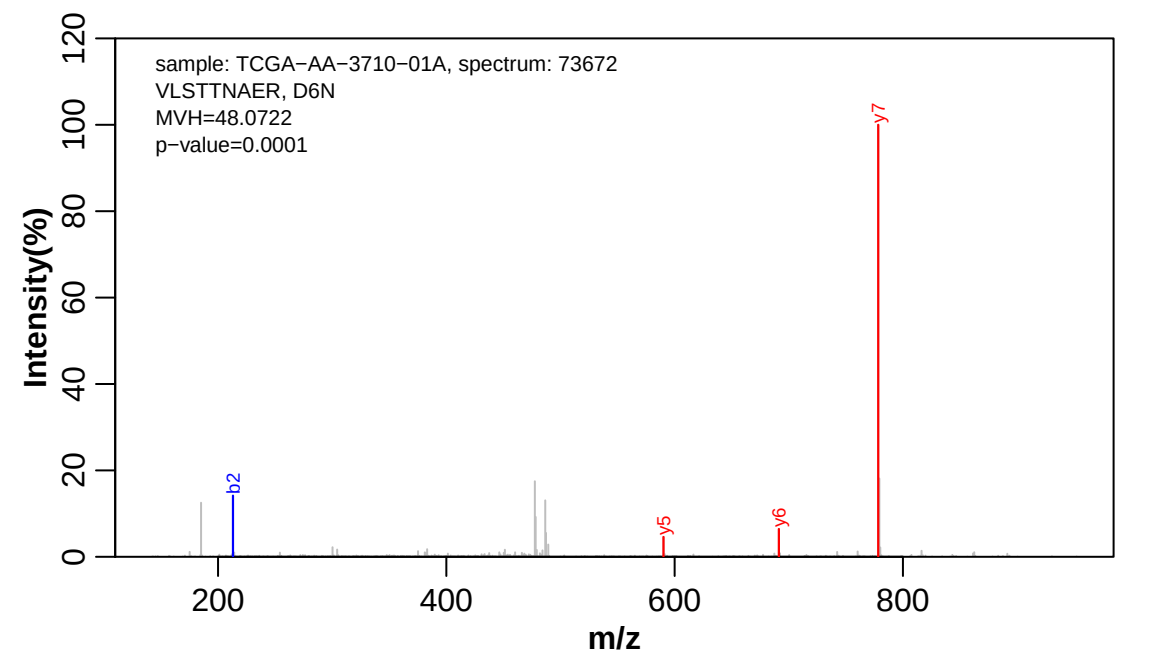

sample: TCGA−AA−3710−01A, spectrum: 75104
TTPLEAASSGAR, T11A
MVH=59.5418
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b2
y3
y4
y5
b5
y6
b6
y7
b7−H2O
b7
y8
b8
b9−H2O
b9
y10
b11

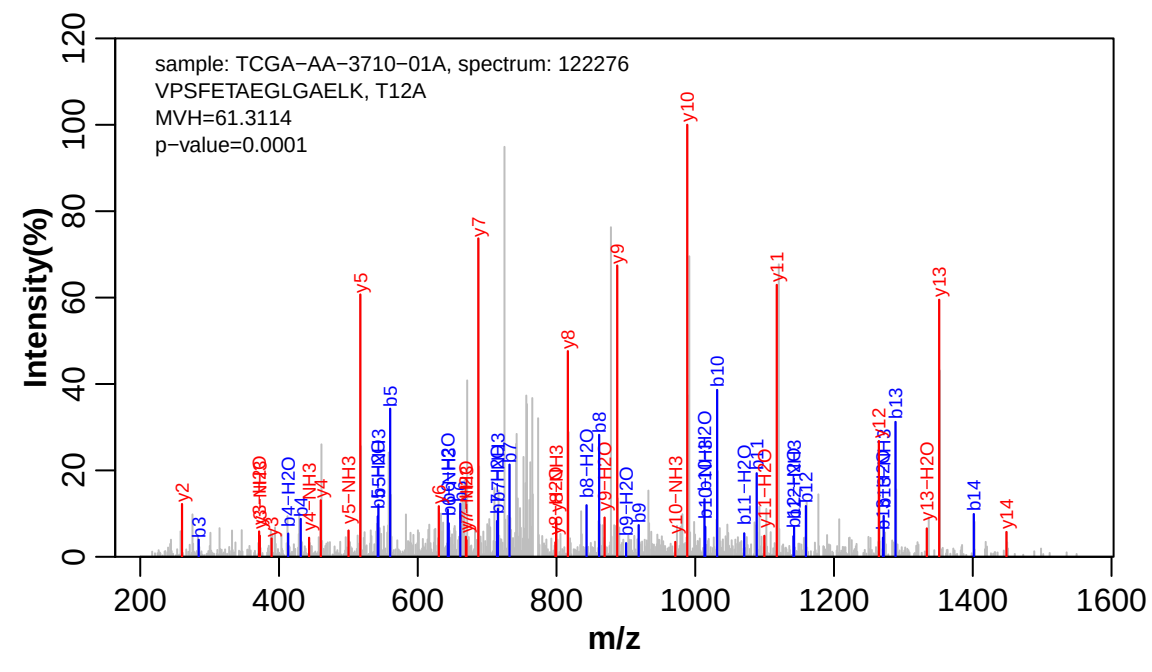

sample: TCGA−AA−3710−01A, spectrum: 35910
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=37.8031
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y4
y6
y8
y9
b23++−H2O
b18++
b7
b4
y3
y2
b6−NH3
b14
y12
b15−NH3
y15−NH3
b17−H2O

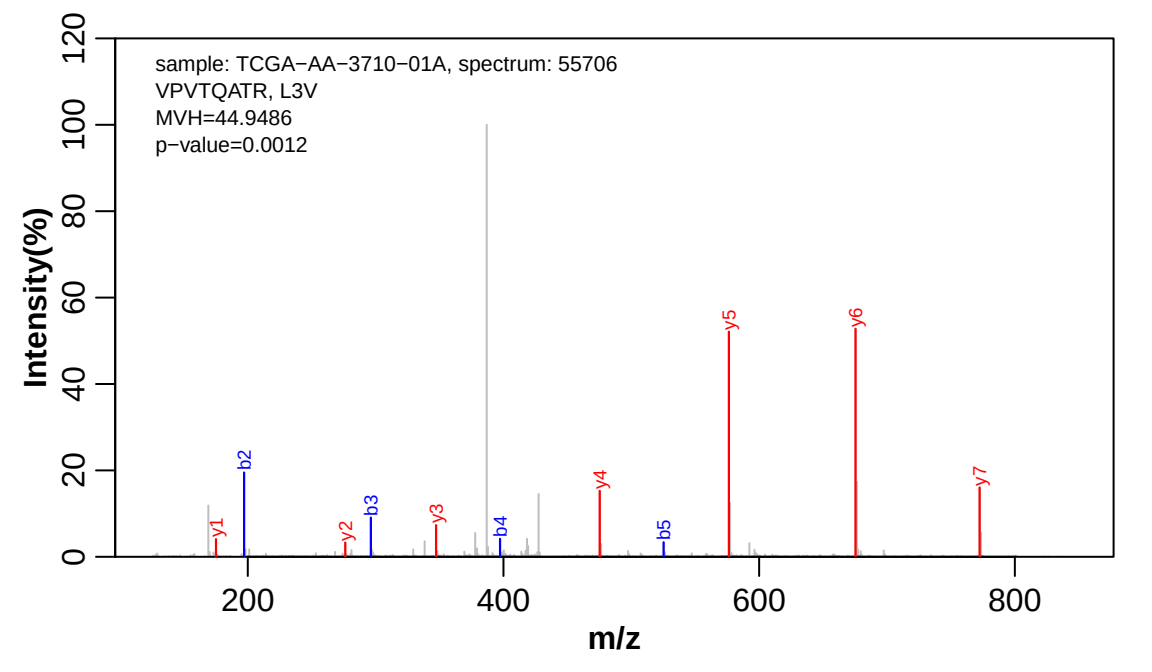

sample: TCGA−AA−3710−01A, spectrum: 24262
TVVQLEGDNKLVTAFK, T14A
MVH=45.1844
p−value=0.0001
Intensity(%)
m/z
b2
b3
y5
y11++
y12++
y13++
y14++

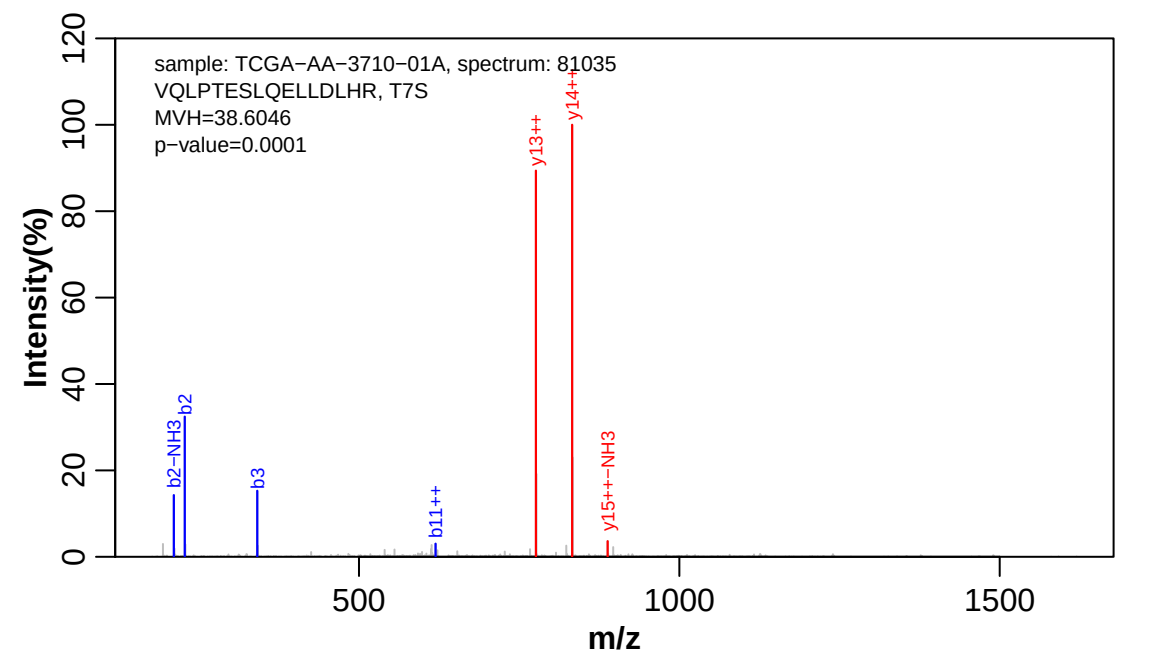

sample: TCGA−AA−3710−01A, spectrum: 41794
VEHWGLDKPLLK, Q8K
MVH=64.4311
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1−NH3
y1−H2O
y1
b4++
b3++−NH3
y2
b6+++−H2O
b2++−H2O
b4++−H2O
y5++−H2O
b8+++−H2O
b2−H2O
y8+++−H2O
b3
y3
b10+++
y10+++
b7++
y11+++−H2O
y8+++−NH3
y11+++
y4+−NH3
b8++−H2O
b8+++
b9+−NH3
b5
b6
b7

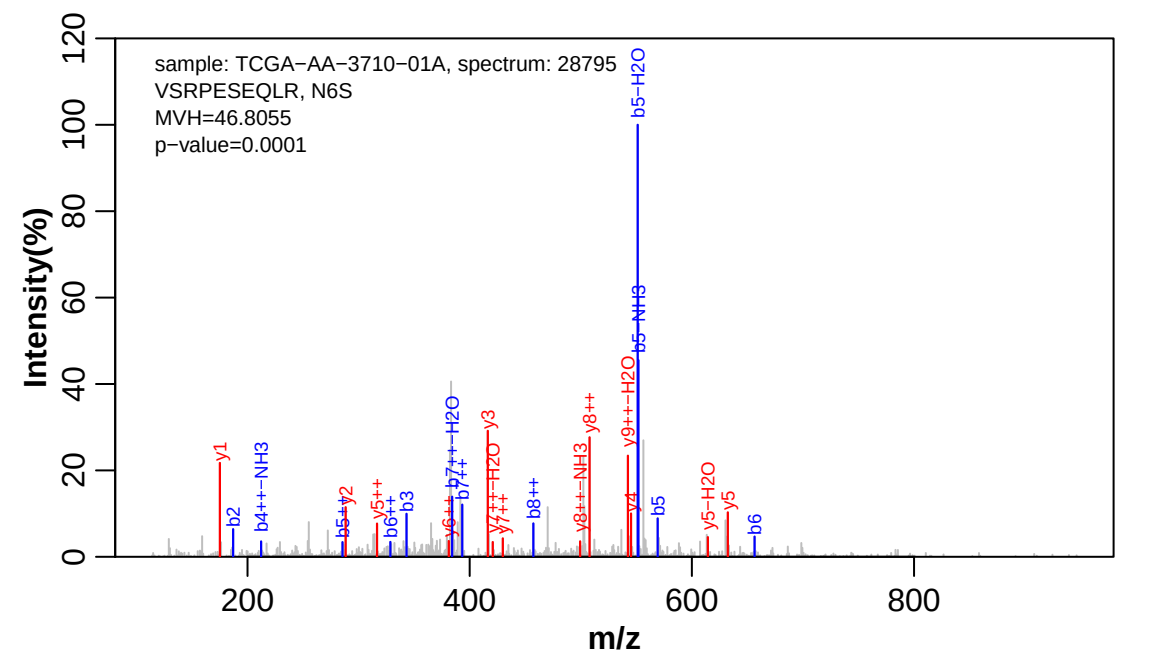

sample: TCGA−AA−3710−01A, spectrum: 82703
VLGTAGTEEGQK, I1V
MVH=46.1178
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
b4
b5−H2O
y4−H2O
y4
b6−H2O
y5−NH3
y5−H2O
b7−H2O
y6
b8−H2O
b7
b7−NH3
y7
y8
y9−H2O
y9
y10
b11−H2O
b11

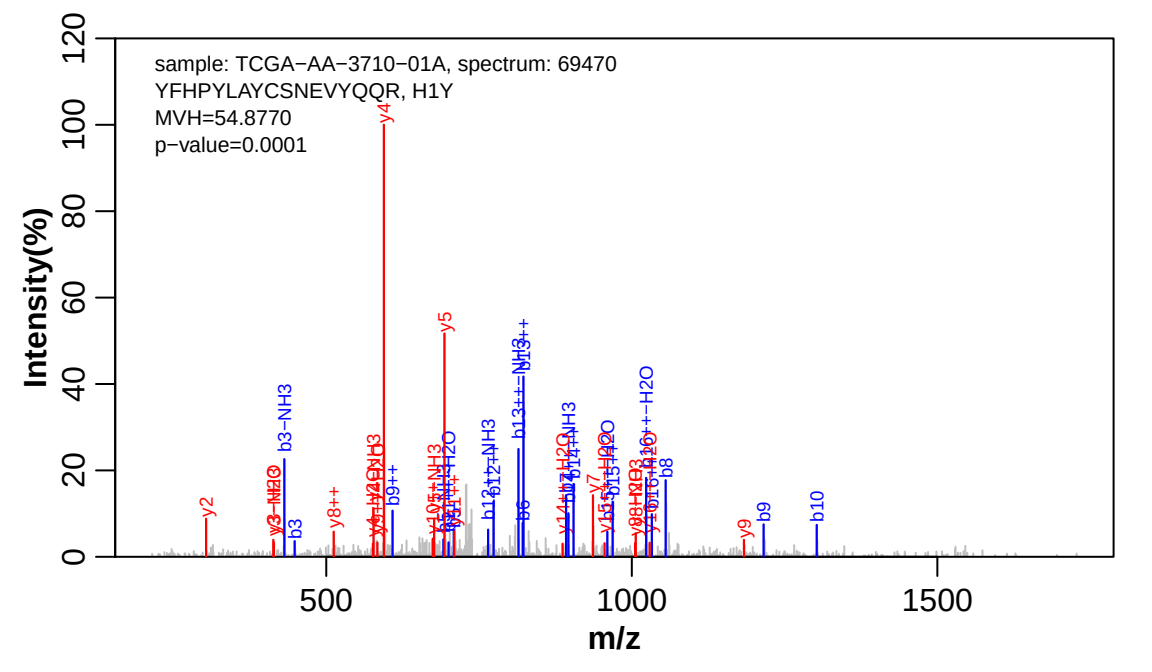

sample: TCGA−AA−3710−01A, spectrum: 73672
VLSTTNAER, D6N
MVH=48.0722
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y5
y6
y7

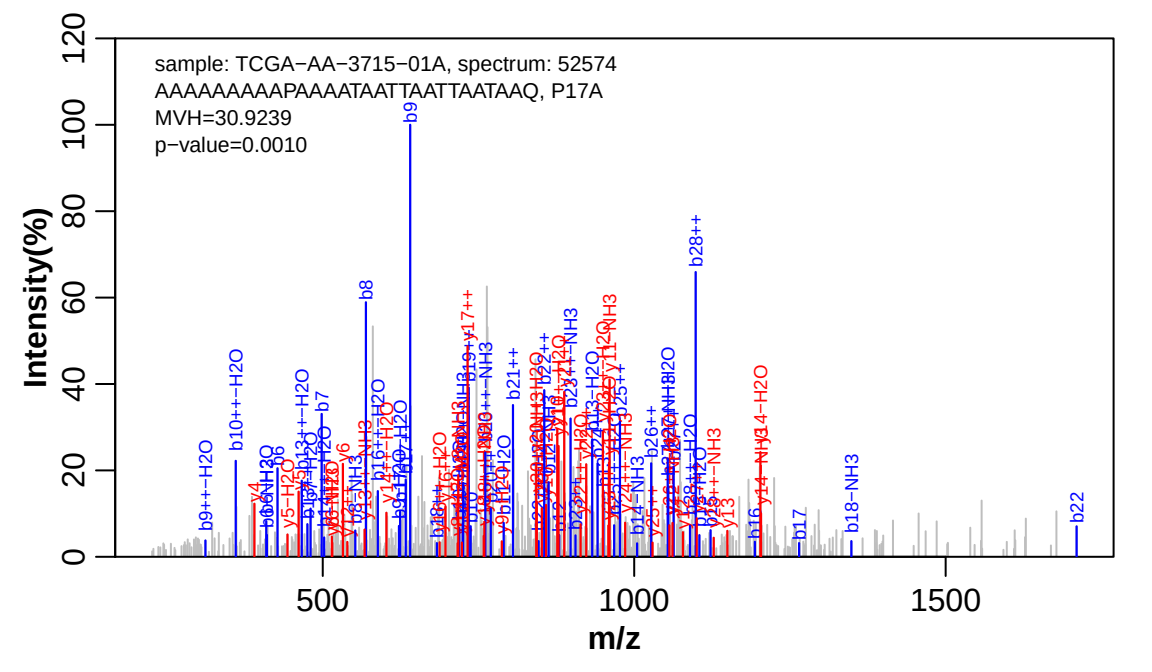

sample: TCGA−AA−3710−01A, spectrum: 122276
VPSFETAEGLGAELK, T12A
MVH=61.3114
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y7
y5
y9
y11
y8
y13
b5
b10
b13
y2
b3
b4−H2O
y4
y5−NH3
b8−H2O
y9−H2O
b9−H2O
y10−NH3
b11−H2O
y13−H2O
b14
y14

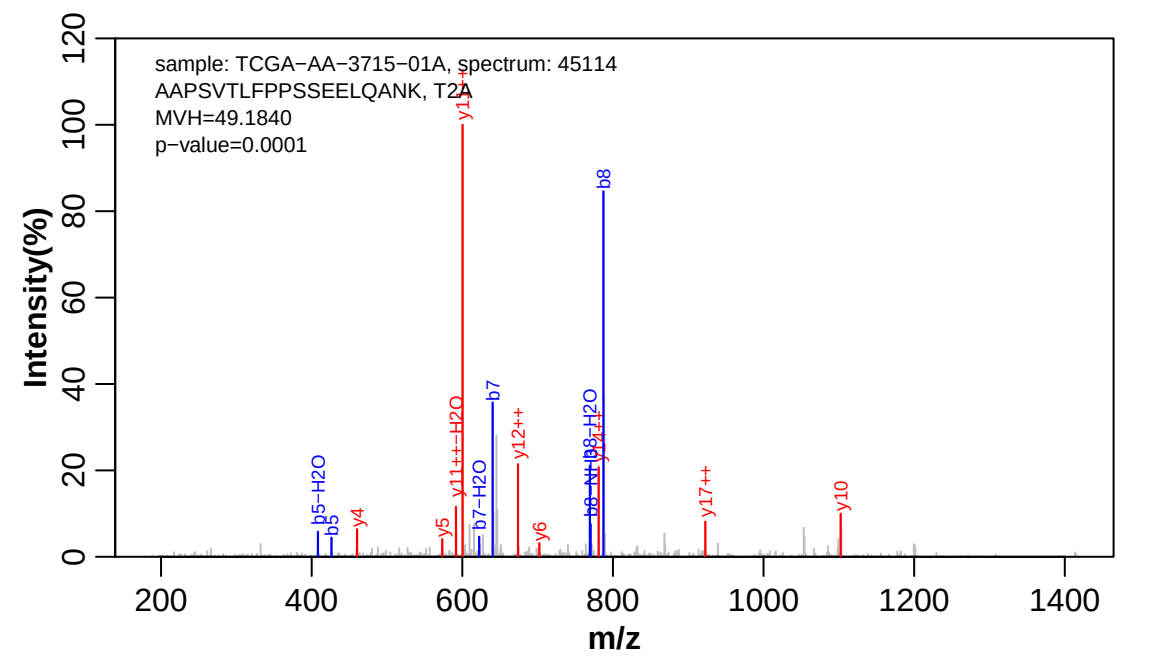

sample: TCGA−AA−3710−01A, spectrum: 55706
VPVTQATR, L3V
MVH=44.9486
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
y6
y7

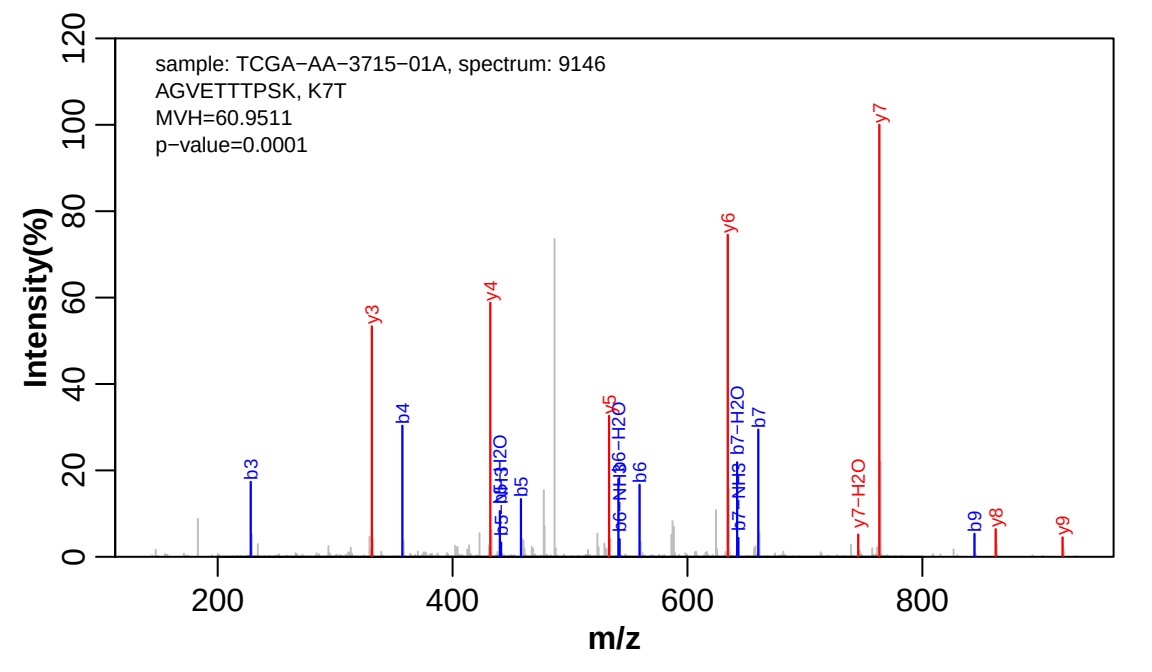

sample: TCGA−AA−3710−01A, spectrum: 81035
VQLPTESLQELLDLHR, T7S
MVH=38.6046
p−value=0.0001
y13++
y14++
b2
b2−NH3
b3
b11++
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

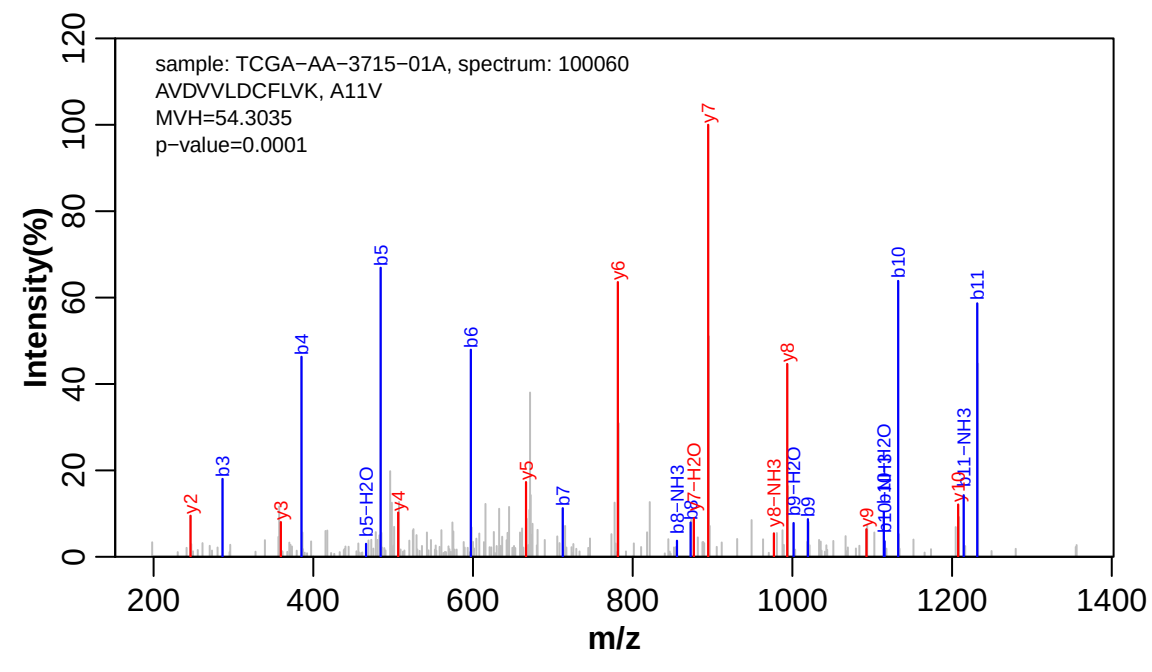

sample: TCGA−AA−3710−01A, spectrum: 28795
VSRPESEQLR, N6S
MVH=46.8055
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
b4++−NH3
b5++
y2
y5++
b6++
b3
y6++
b7++−H2O
b7++
y7++−H2O
y3
b8++
y8++−NH3
y8++
y9++−H2O
y4
b5−NH3
b5−H2O
b5
y5−H2O
y5
b6

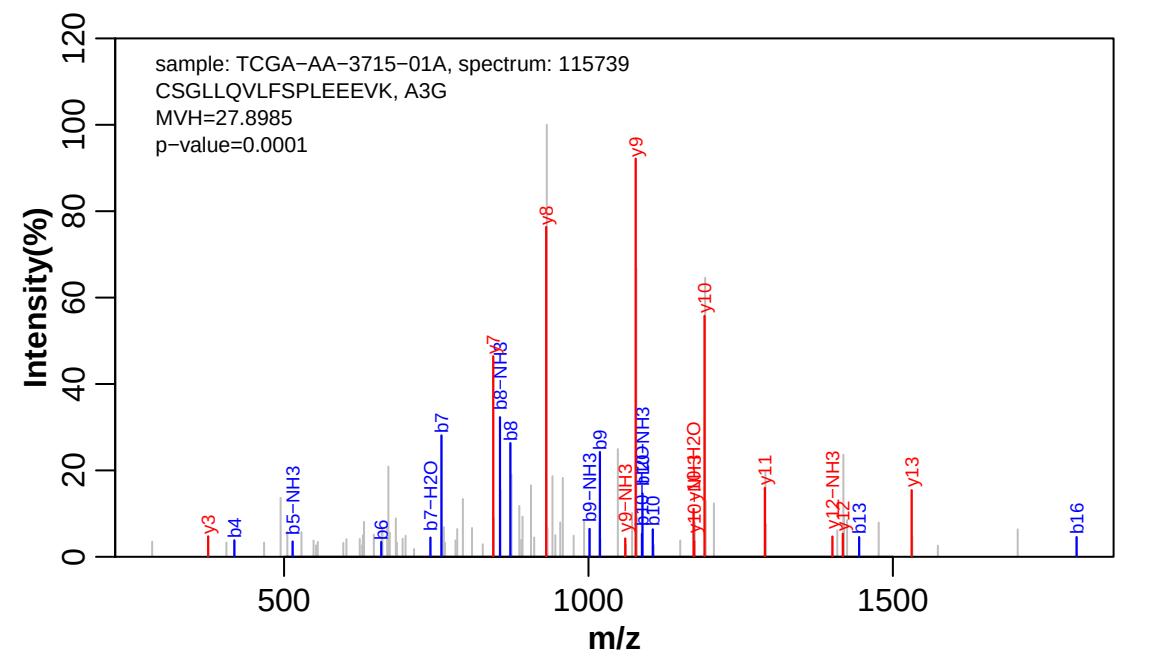

sample: TCGA−AA−3710−01A, spectrum: 69470
YFHPYLAYCSNEVYQQR, H1Y
MVH=54.8770
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b3
b3−NH3
y8++
b9++
y4
y5
b12++NH3
b13++−NH3
b8
y7
b8
y9
b9
b10

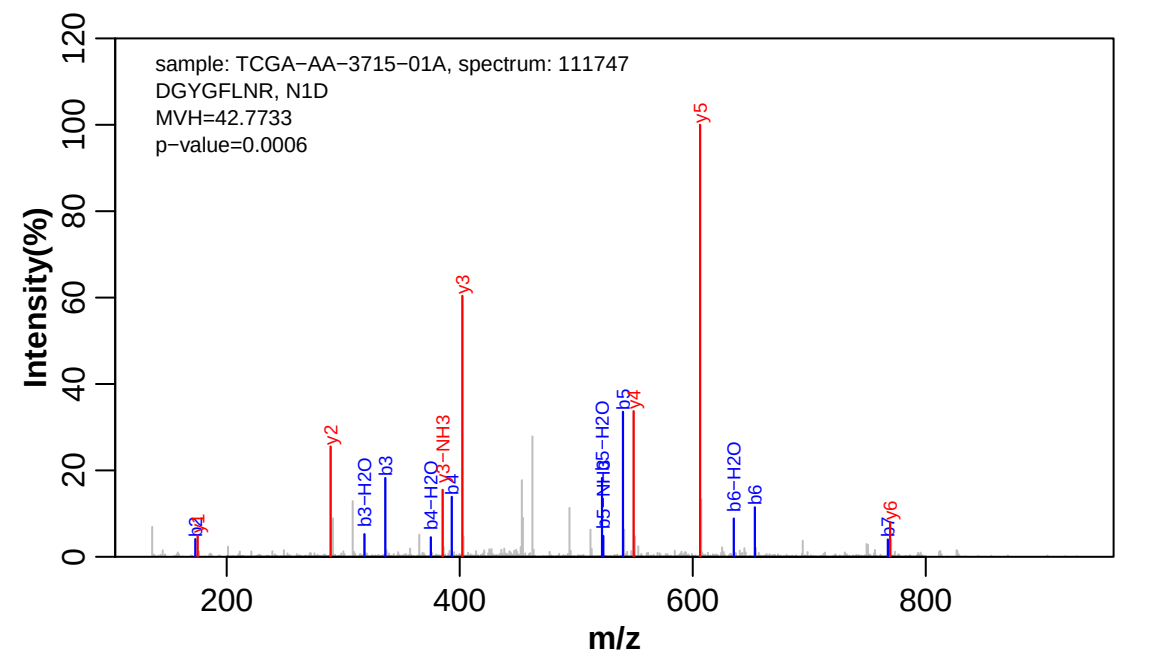

sample: TCGA−AA−3715−01A, spectrum: 52574
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=30.9239
p−value=0.0010
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b8
b10++−H2O
b9++−H2O
b28++
b22
b18−NH3
b17
b16
b14−NH3
b21++
b26++
b7
b6
y5−H2O
y4
y6
y8−NH3
y13
y14−H2O
y17++
y11−NH3
y12−H2O
b18++−H2O
b19++−NH3
b20++−NH3
b25++
b18++
b19++
b20++
b21++−H2O
b23++−H2O
b24++−H2O
b25++−H2O
b26++−H2O
b27++−H2O
b28++−H2O
b18++−NH3
b19++−NH3
b20++−NH3
b21++−NH3
b23++−NH3
b24++−NH3
b25++−NH3
b26++−NH3
b27++−NH3
b28++−NH3

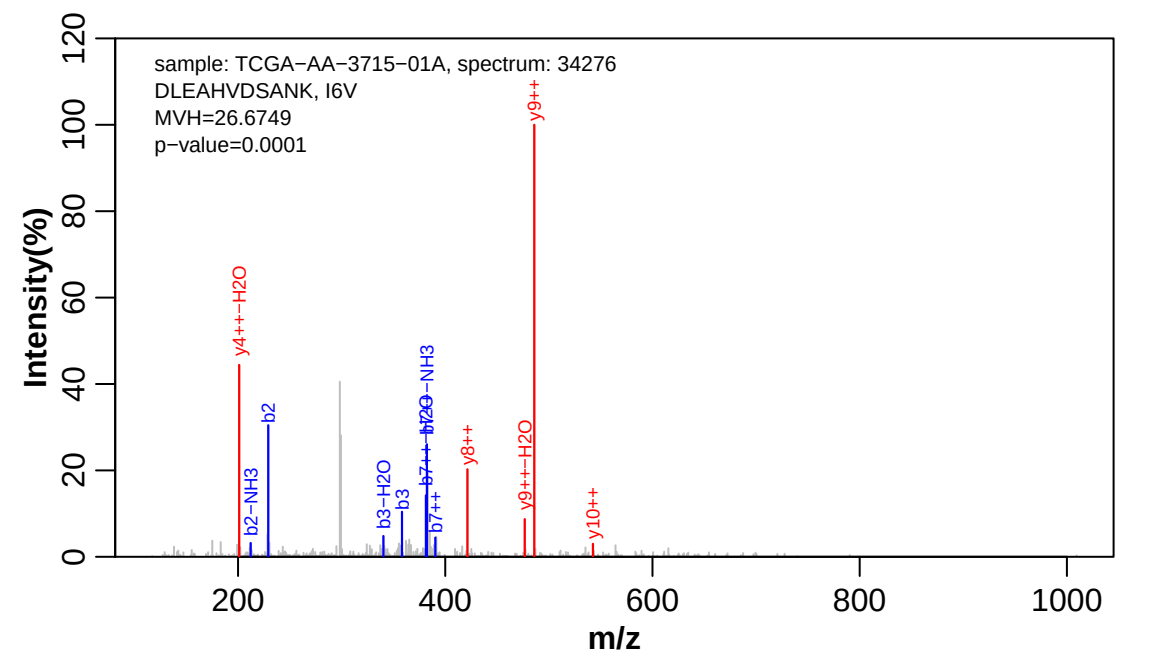

sample: TCGA−AA−3715−01A, spectrum: 45114
AAPSVTLFPPSSEELQANK, T2A
MVH=49.1840
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11++
b8
b7
y12++
y11++−H2O
b7−H2O
b5−H2O
b5
y4
y5
y6
b8−NH3
b8−H2O
y17++
y10

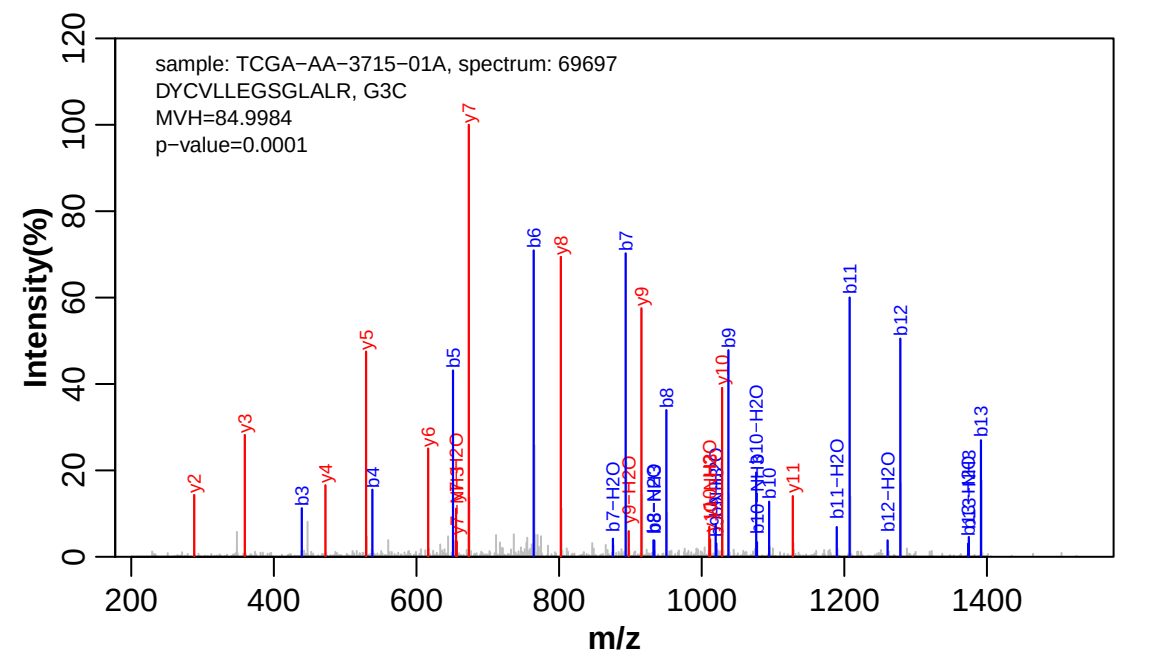

sample: TCGA−AA−3715−01A, spectrum: 9146
AGVETTTPSK, K7T
MVH=60.9511
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y3
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

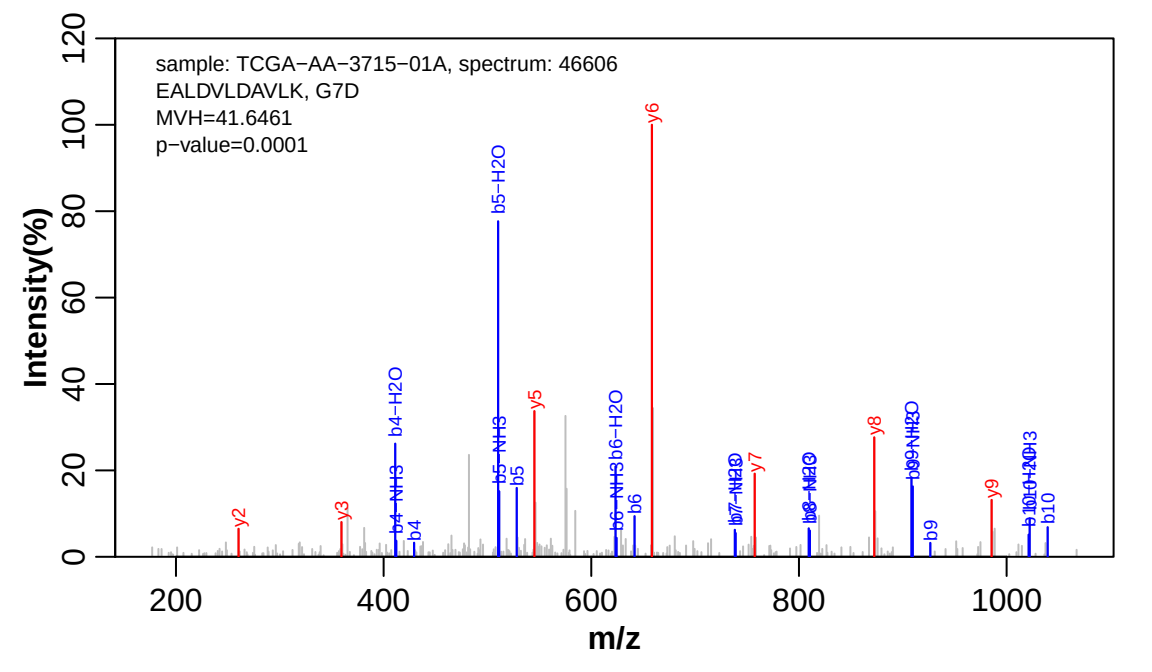

sample: TCGA−AA−3715−01A, spectrum: 100060
AVDVVLDCFLVK, A11V
MVH=54.3035
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b5−H2O
b5
y4
b6
y5
b7
b8−NH3
b8
y7−H2O
y7
y6
y8−NH3
y8
b9−H2O
b9
y9
b10
b11−NH3
b11

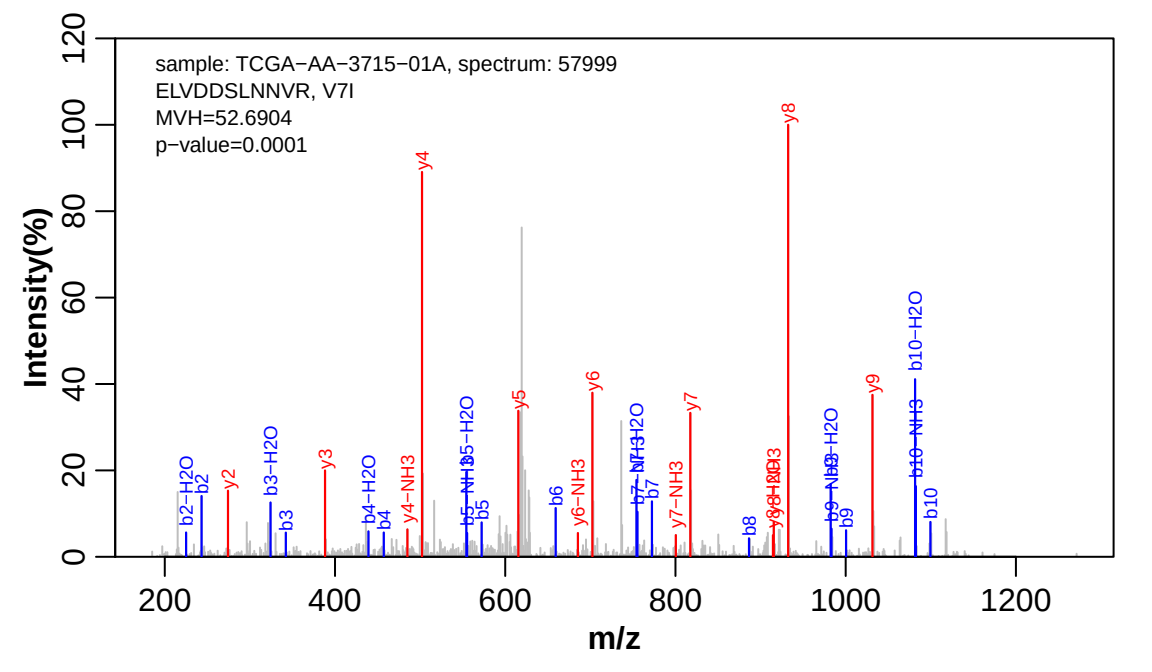

sample: TCGA−AA−3715−01A, spectrum: 115739
CSGLLQVLFSPLEEEVK, A3G
MVH=27.8985
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b4
b5−NH3
b6
b7−H2O
b7
b8−NH3
b7
b8
b9−NH3
b9
y9−NH3
y9
y8
y10
y11
y12−NH3
y12
b13
y13
b16

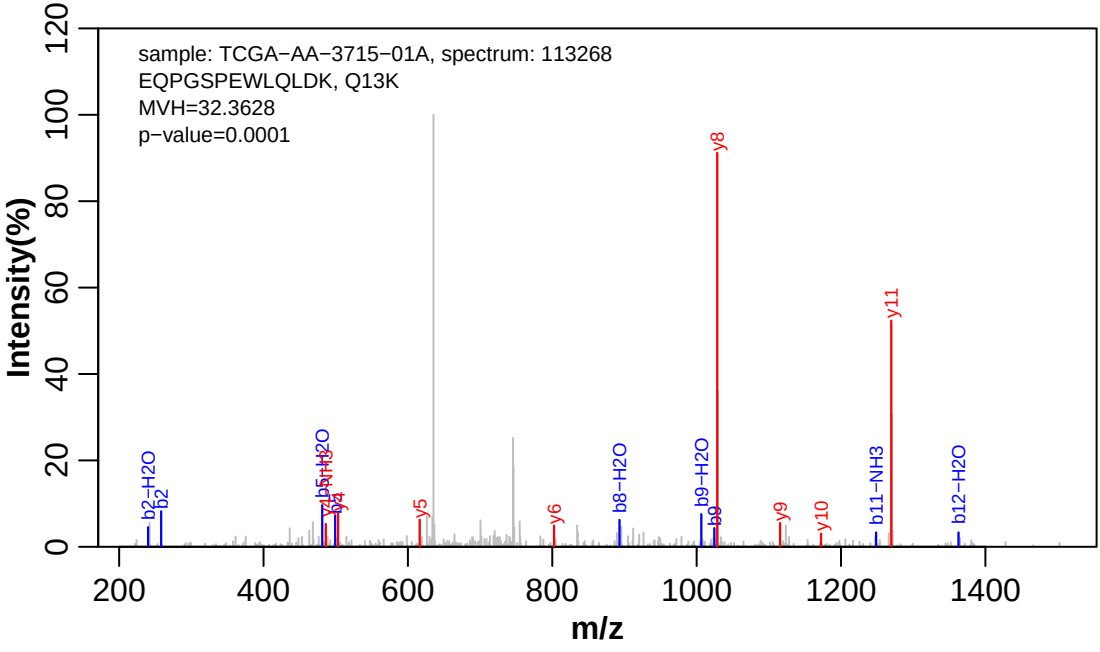

sample: TCGA−AA−3715−01A, spectrum: 111747
DGYGFLNR, N1D
MVH=42.7733
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y2
y4
b5
b5−H2O
b5−NH3
b3
b3−H2O
b4−H2O
y3−NH3
b4
b6−H2O
b6
y6
b7
b1

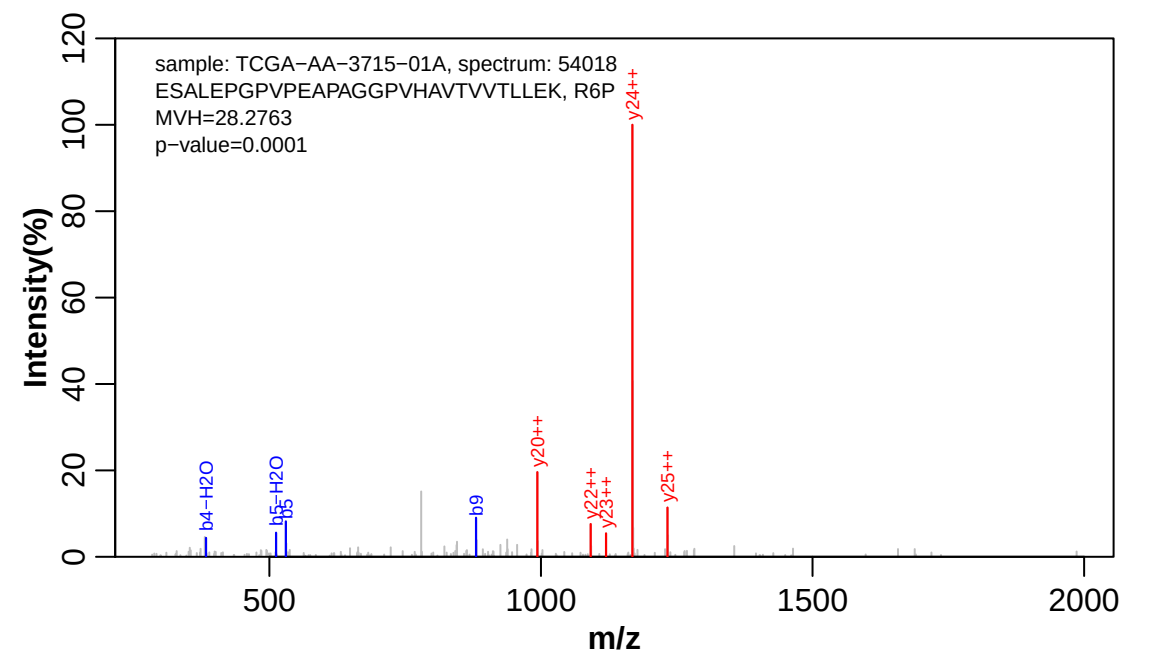

sample: TCGA−AA−3715−01A, spectrum: 34276
DLEAHVDSANK, I6V
MVH=26.6749
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y9++
y4++−H2O
b2
b2−NH3
b3−H2O
b3
b7++−H2O
b7++−NH3
y8++
y9++−H2O
y10++

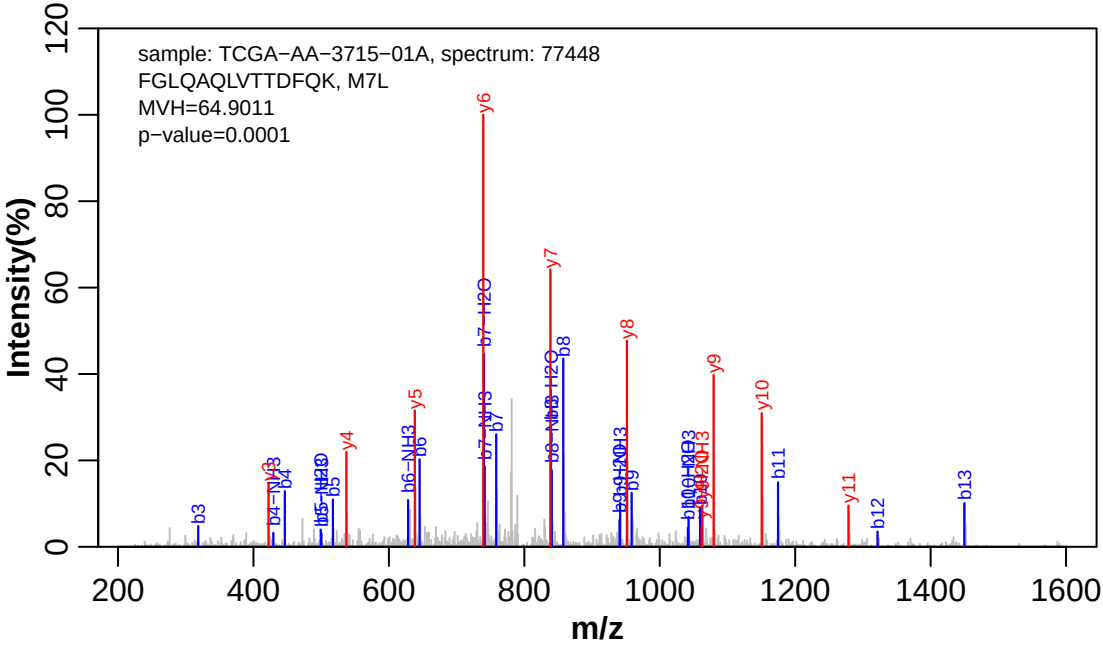

sample: TCGA−AA−3715−01A, spectrum: 69697
DYCVLLEGSGLALR, G3C
MVH=84.9984
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b3
y4
y5
b4
y6
b5
y7
b6
y8
b7
y9
b8
b7−H2O
y8−H2O
y10
b9
b10
b10−H2O
y11
b11
b11−H2O
b12
b12−H2O
b13

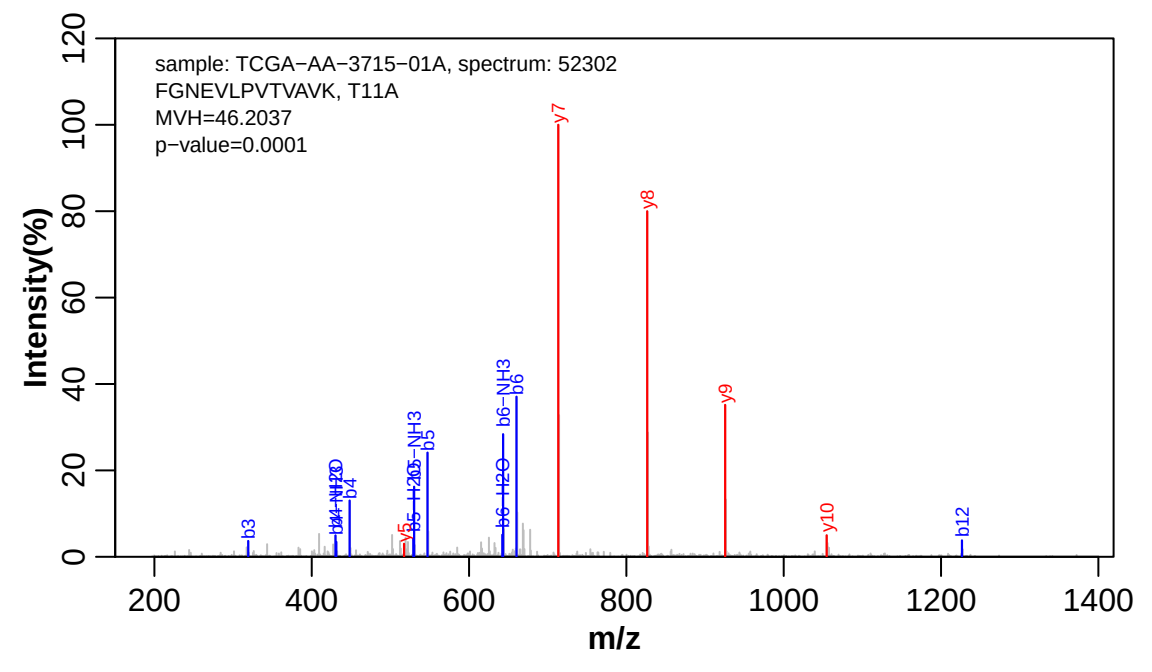

sample: TCGA−AA−3715−01A, spectrum: 46606
EALDVLDAVLK, G7D
MVH=41.6461
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y2
y3
b4−NH3
b4−H2O
b4
b5−H2O
b5−NH3
b5
y5
y6
b6−NH3
b6−H2O
b6
b7−NH3
b7−H2O
y7
b8−NH3
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

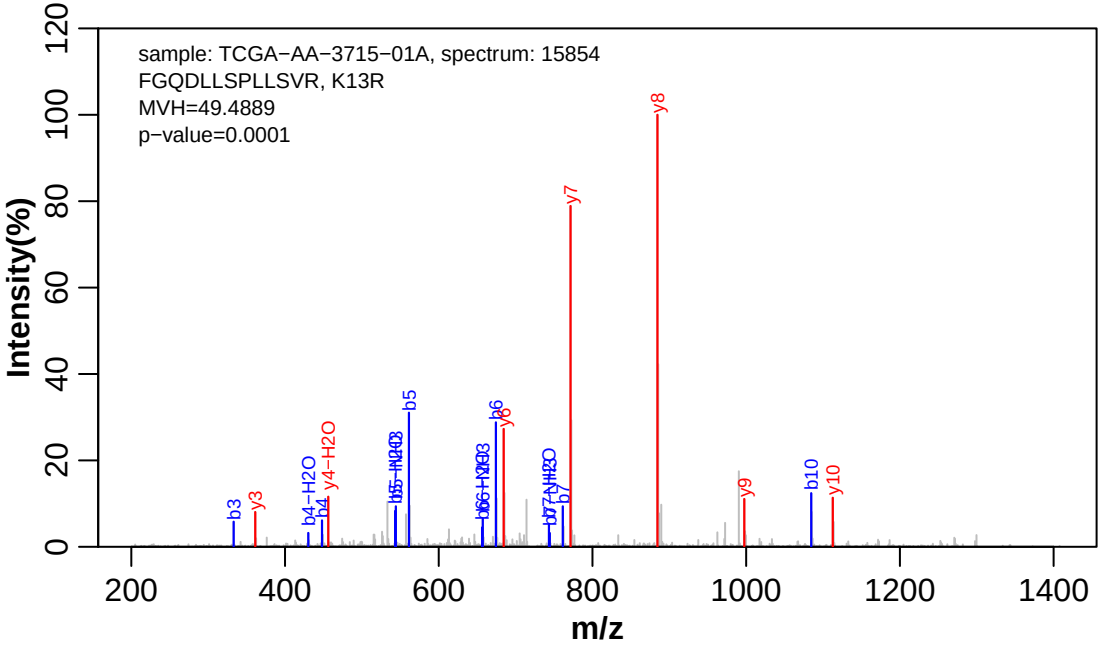

sample: TCGA−AA−3715−01A, spectrum: 57999
ELVDDSLNNVR, V7I
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7
b8
y8−H2O
y8−NH3
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

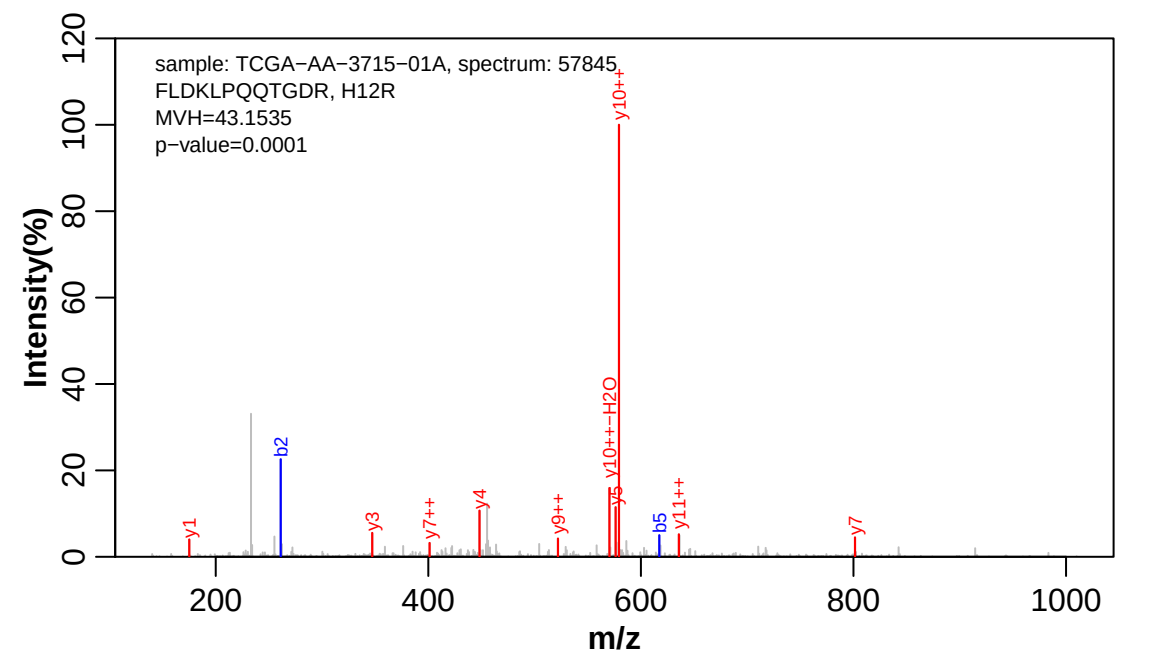

sample: TCGA−AA−3715−01A, spectrum: 113268
EQPGSPEWLQLDK, Q13K
MVH=32.3628
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b2
y5
y6
b8−H2O
b9−H2O
y8
y9
y10
b11−NH3
y11
b12−H2O

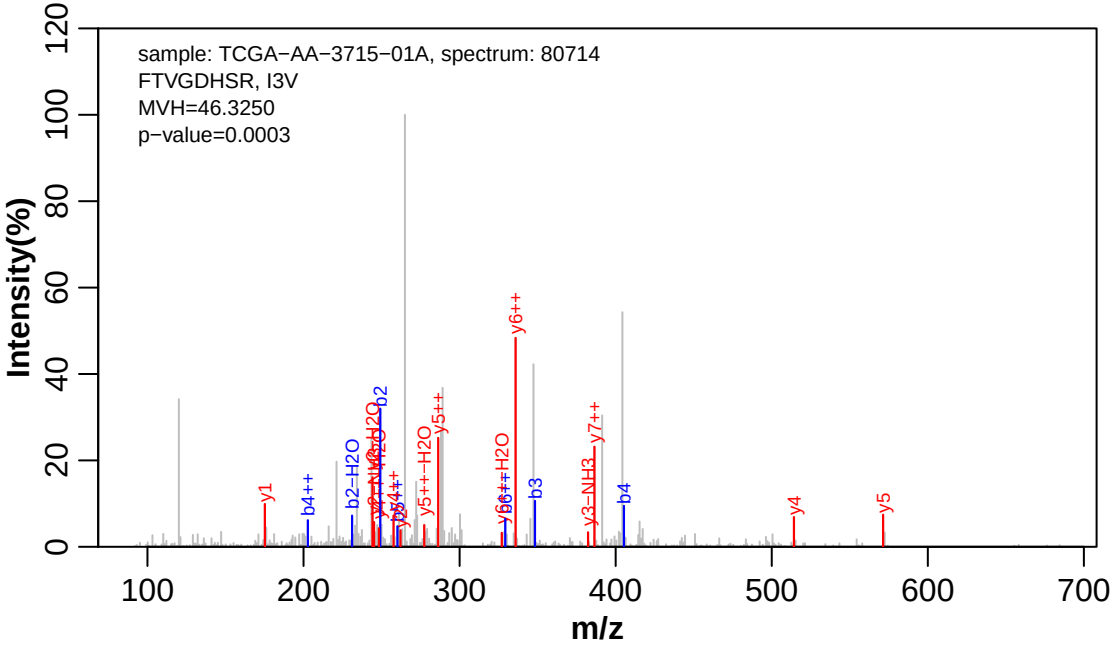

sample: TCGA−AA−3715−01A, spectrum: 54018
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=28.2763
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b4−H2O
b5−H2O
b5
b9
y20++
y22++
y23++
y24++
y25++

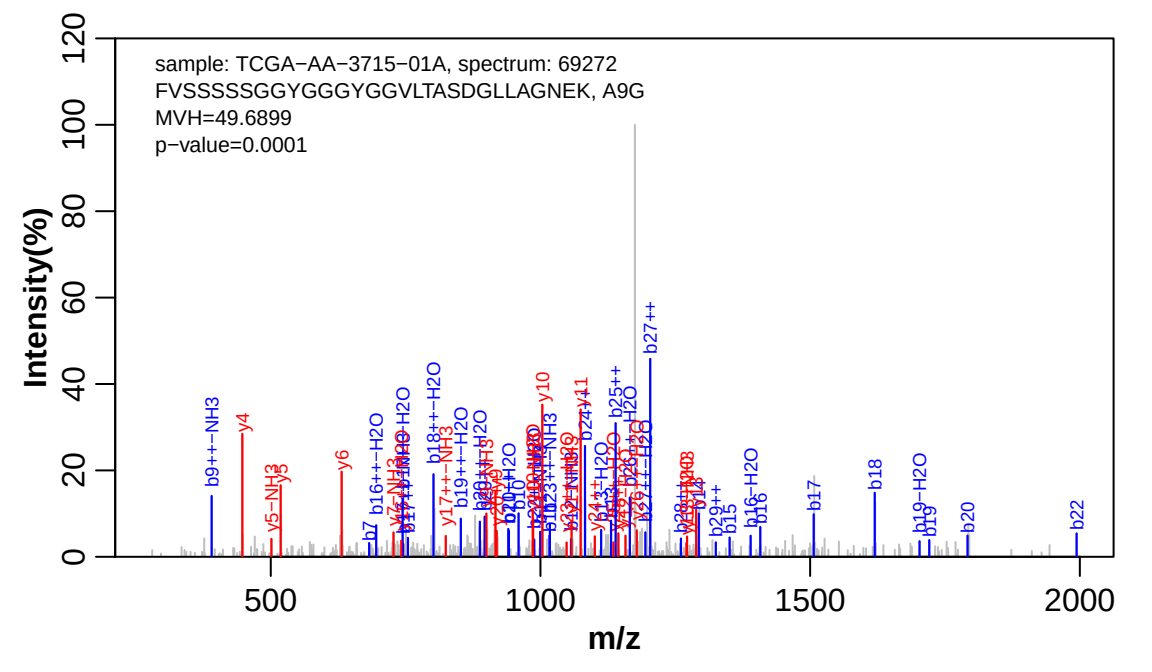

sample: TCGA−AA−3715−01A, spectrum: 77448
FGLQAQLVTTDFQK, M7L
MVH=64.9011
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y9
y10
y11
y5
y4
b3
b4
b5
b6
b7
b8
b9
b11
b12
b13
b7 H2O
b8 H2O
b6 NH3
b7 NH3
b8 NH3

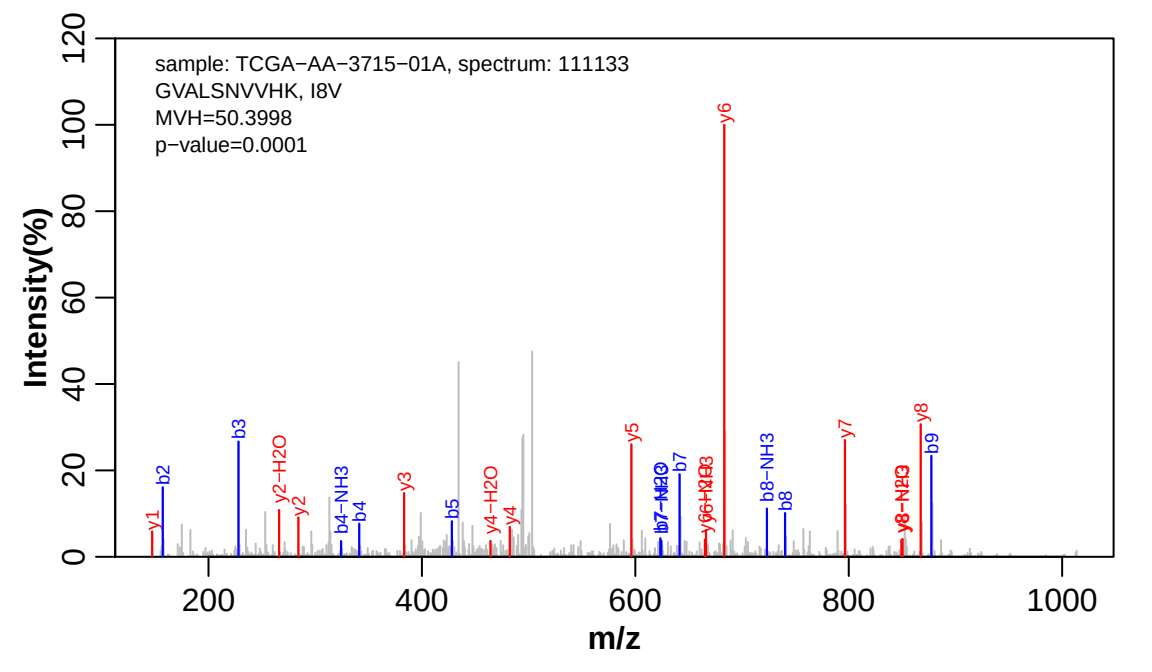

sample: TCGA−AA−3715−01A, spectrum: 52302
FGNEVLPVTVAVK, T11A
MVH=46.2037
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y8
y9
y10
b12
b3
b4
b5
b6
b5−NH3
b6−NH3
b6−H2O

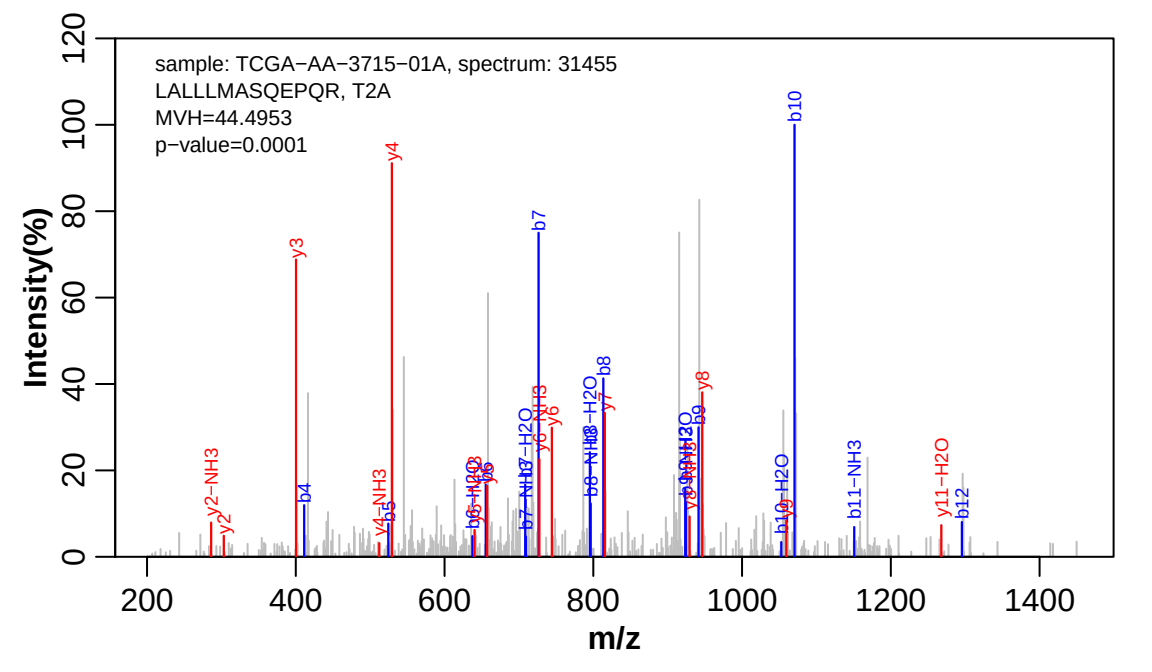

sample: TCGA−AA−3715−01A, spectrum: 15854
FGQDLLSPLLSVR, K13R
MVH=49.4889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4−H2O
b5
b6
y6
b7
y7
y8
y9
b10
y10

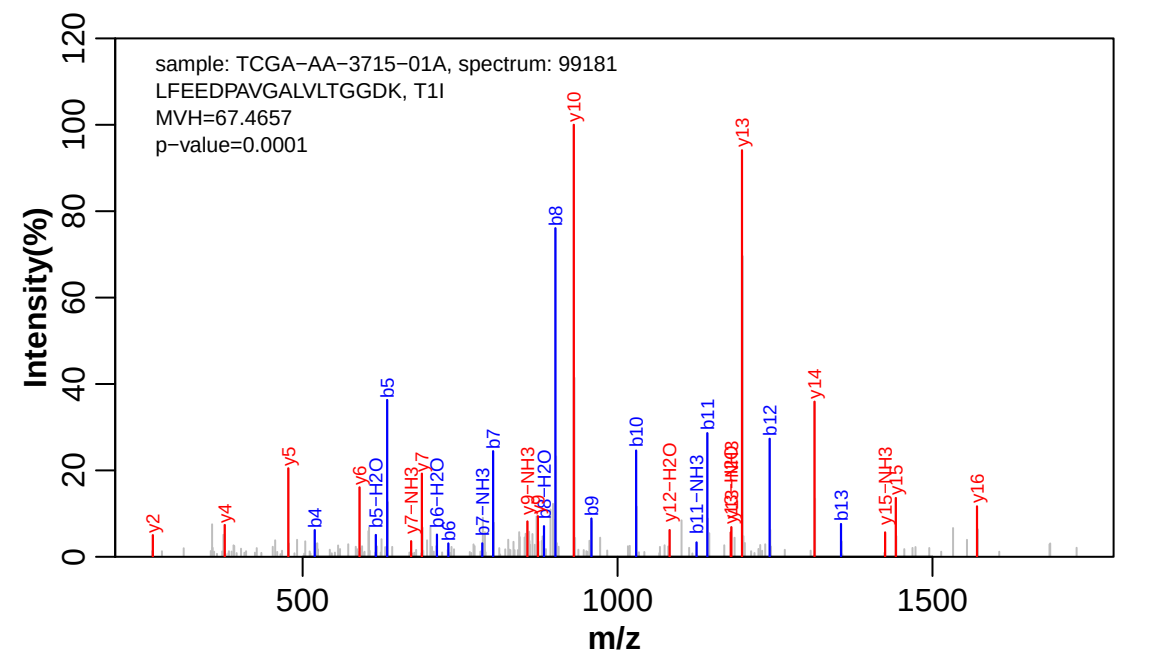

sample: TCGA−AA−3715−01A, spectrum: 57845
FLDKLPQQTGDR, H12R
MVH=43.1535
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
b2
y1
y3
y7++
y4
y9++
y5
b5
y11++
y7
0
20
40
60
80
100
120
200
400
600
800
1000

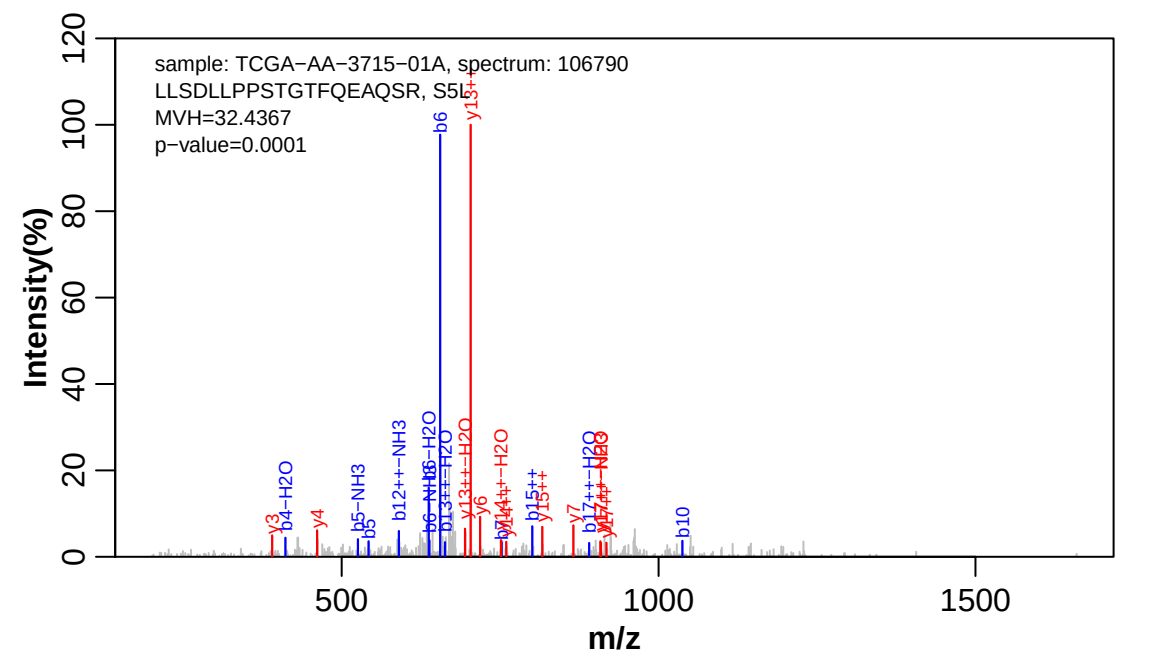

sample: TCGA−AA−3715−01A, spectrum: 80714
FTVGDHSR, I3V
MVH=46.3250
p−value=0.0003
Intensity(%)
m/z
y1
b4++
b2−H2O
y6++−H2O
b3
y3−NH3
y7++
b4
y4
y5

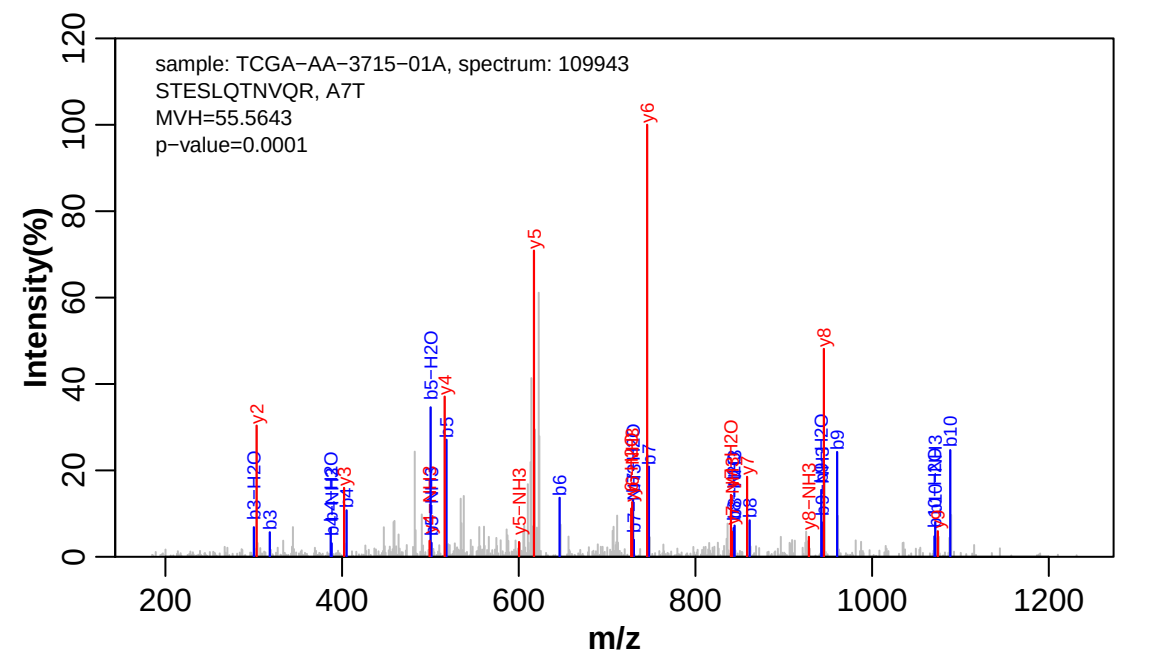

sample: TCGA−AA−3715−01A, spectrum: 69272
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=49.6899
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5−NH3
y5
y6
b7
b16++−H2O
b18++−H2O
y17++−NH3
b19++−H2O
b27++
y10
y11
b25++
b18
b19−H2O
b19
b20
b22

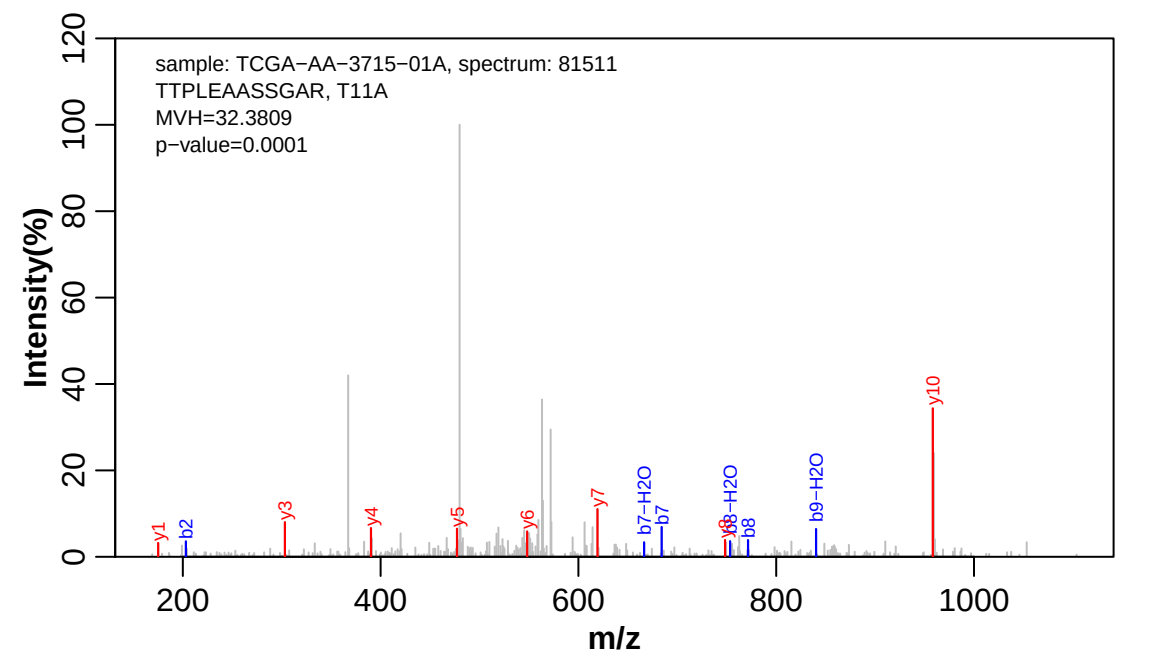

sample: TCGA−AA−3715−01A, spectrum: 111133
GVALSNVVHK, I8V
MVH=50.3998
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2−H2O
y2
b4−NH3
b4
y3
b5
y4−H2O
y4
y5
b7
y6
b8−NH3
b8
y7
y8
b9

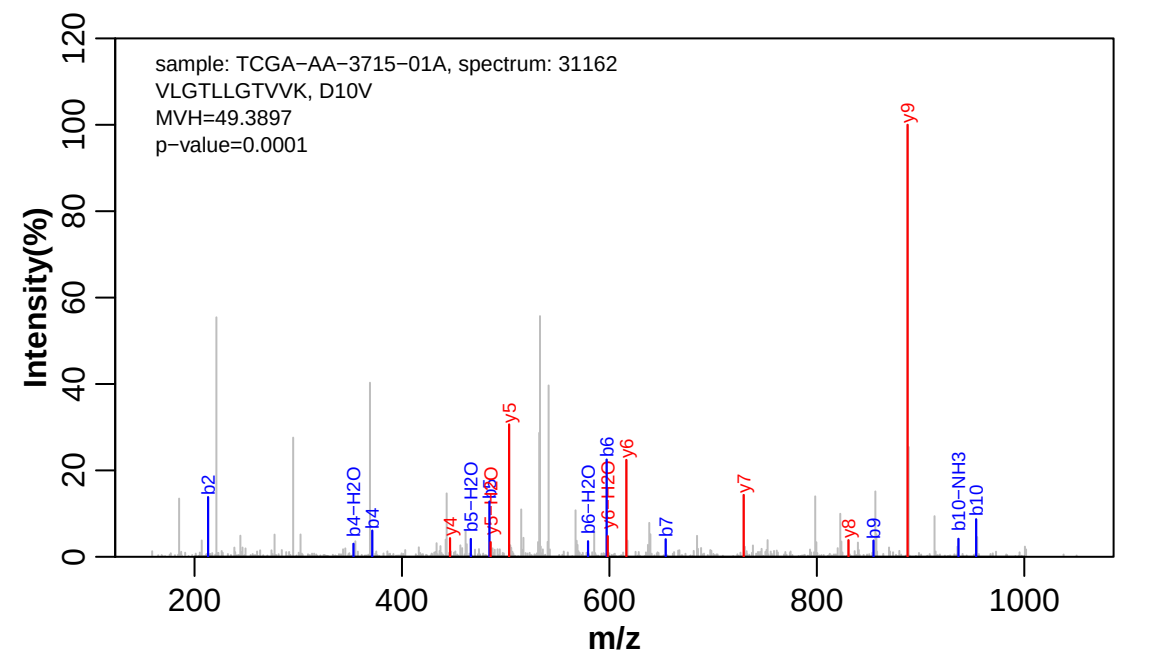

sample: TCGA−AA−3715−01A, spectrum: 31455
LALLLMASQEPQR, T2A
MVH=44.4953
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y3
b7
b10
y8
y6
b8
y7
b9
b4
y2−NH3
y2
y4−NH3
b5
b6−H2O
b6
y5
b7−NH3
b7−H2O
y6−NH3
b8−NH3
b8−H2O
b9−NH3
b9−H2O
b10−H2O
b10
b11−NH3
y11−H2O
b12

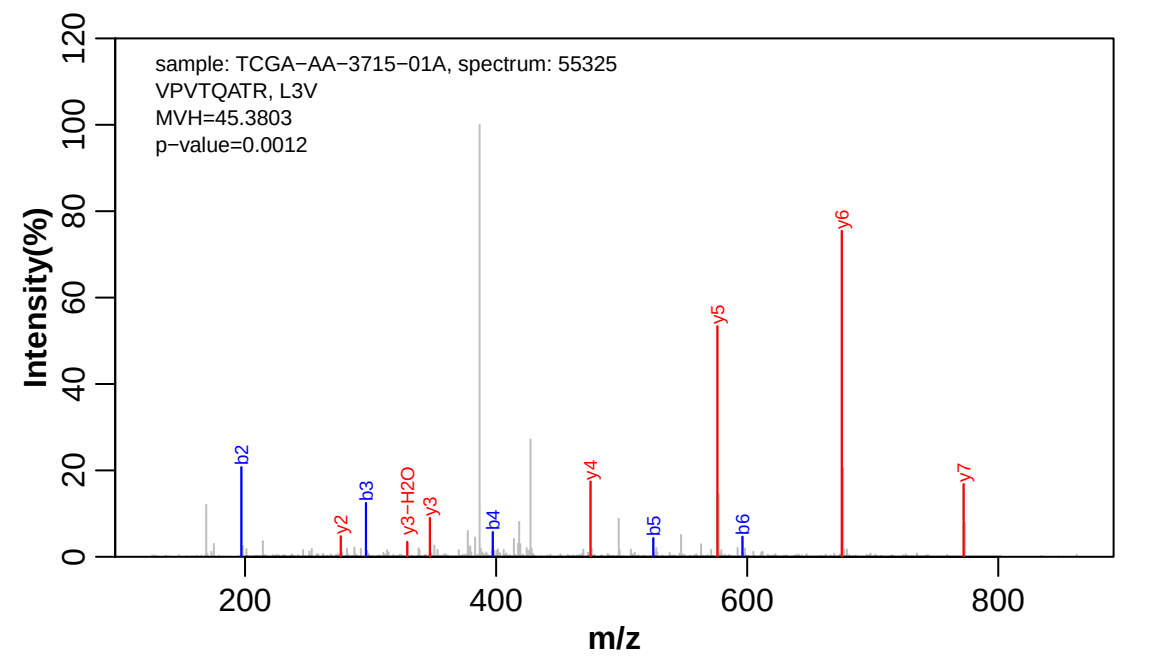

sample: TCGA−AA−3715−01A, spectrum: 99181
LFEEDPAVGALVLTGGDK, T1I
MVH=67.4657
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y4
y5
b4
y6
b5−H2O
b5
y7−NH3
y7
b6−H2O
b6
b7−NH3
b7
y8−NH3
b8−H2O
b8
y10
b9
b10
y12−H2O
b11−NH3
b11
y13−NH3
y13−H2O
y13
b12
y14
b13
y15−NH3
y15
y16

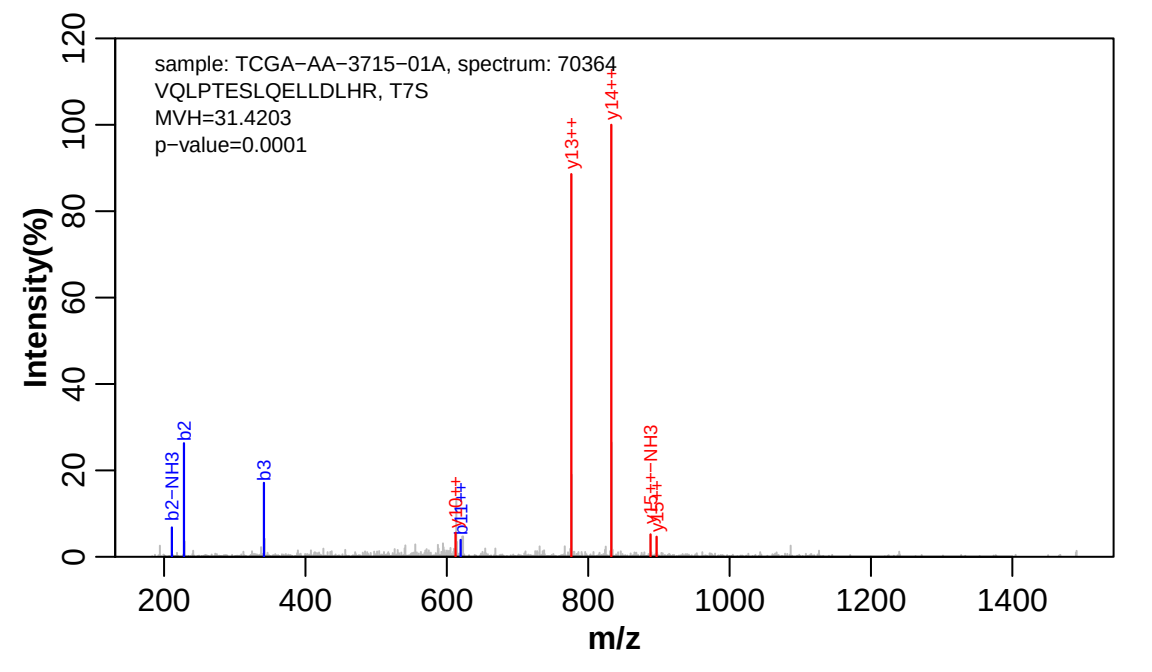

sample: TCGA−AA−3715−01A, spectrum: 106790
LLSDLLPPSTGTFQEAQSR, S5L
MVH=32.4367
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b6
y15++
y3
b4−H2O
y4
b5−NH3
b5
b12++−NH3
b6−NH3
b6−H2O
b13++−H2O
y3++−H2O
y6
y14++−H2O
b15++
y15++
y7
b17++−H2O
b10

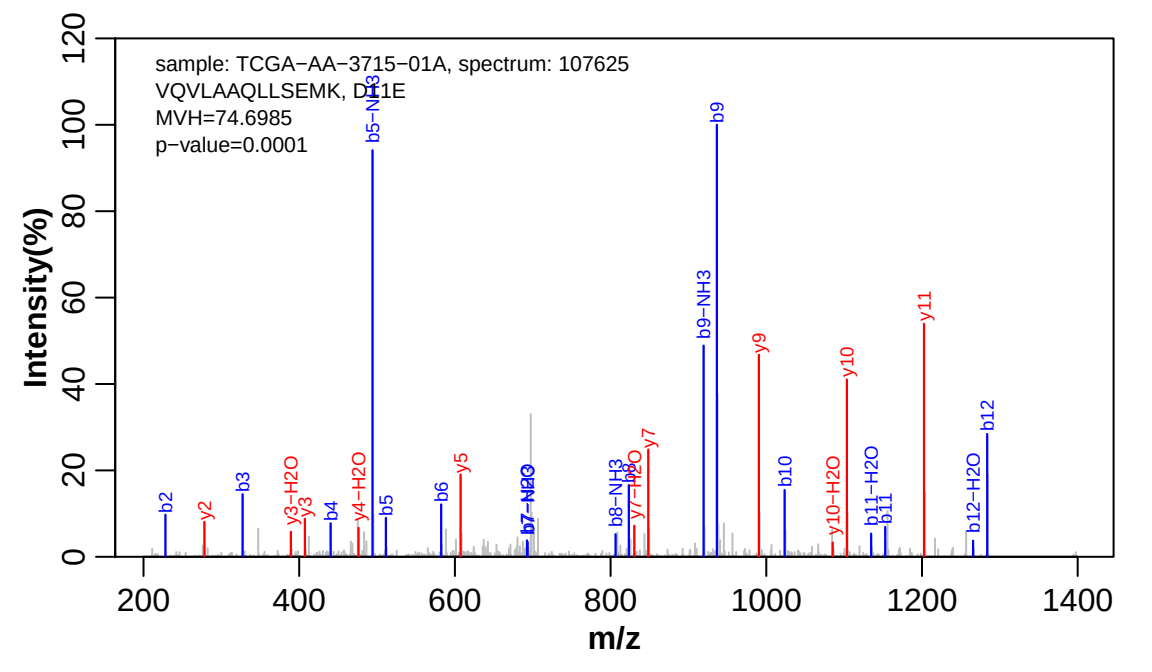

sample: TCGA−AA−3715−01A, spectrum: 109943
STESLQTNVQR, A7T
MVH=55.5643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y8
y2
y4
y3
y7
b10
b9
b6
b5
b5−H2O
b3−H2O
b3
y5−NH3
y8−NH3

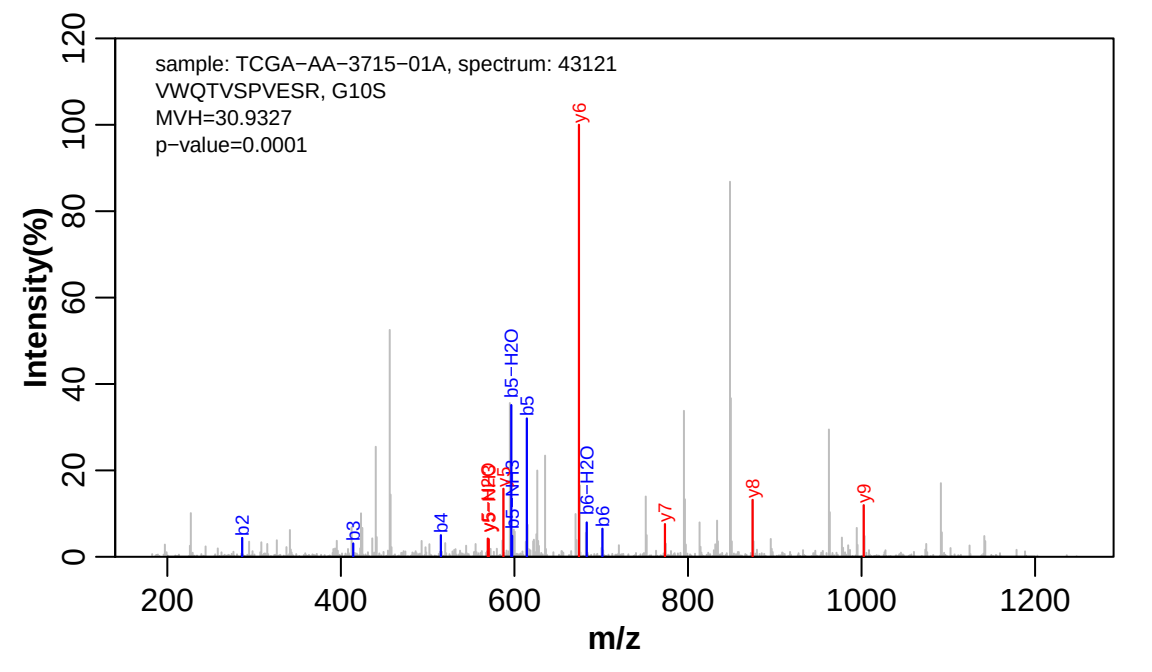

sample: TCGA−AA−3715−01A, spectrum: 81511
TTPLEAASSGAR, T11A
MVH=32.3809
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y3
y4
y5
y6
y7
b7−H2O
b7
y8
b8−H2O
b8
b9−H2O
y10

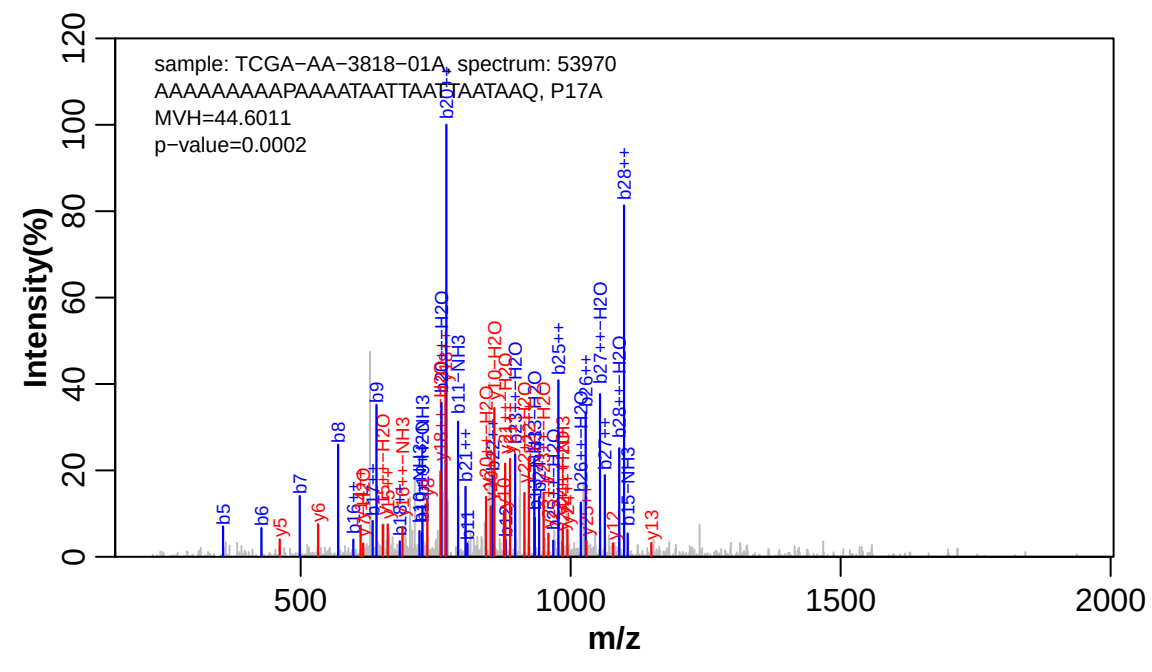

sample: TCGA−AA−3715−01A, spectrum: 31162
VLGTLLGTVVK, D10V
MVH=49.3897
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b4−H2O
b4
y4
b5−H2O
y5−H2O
y5
b6−H2O
y6−H2O
b6
y6
b7
y7
y8
b9
y9
b10−NH3
b10

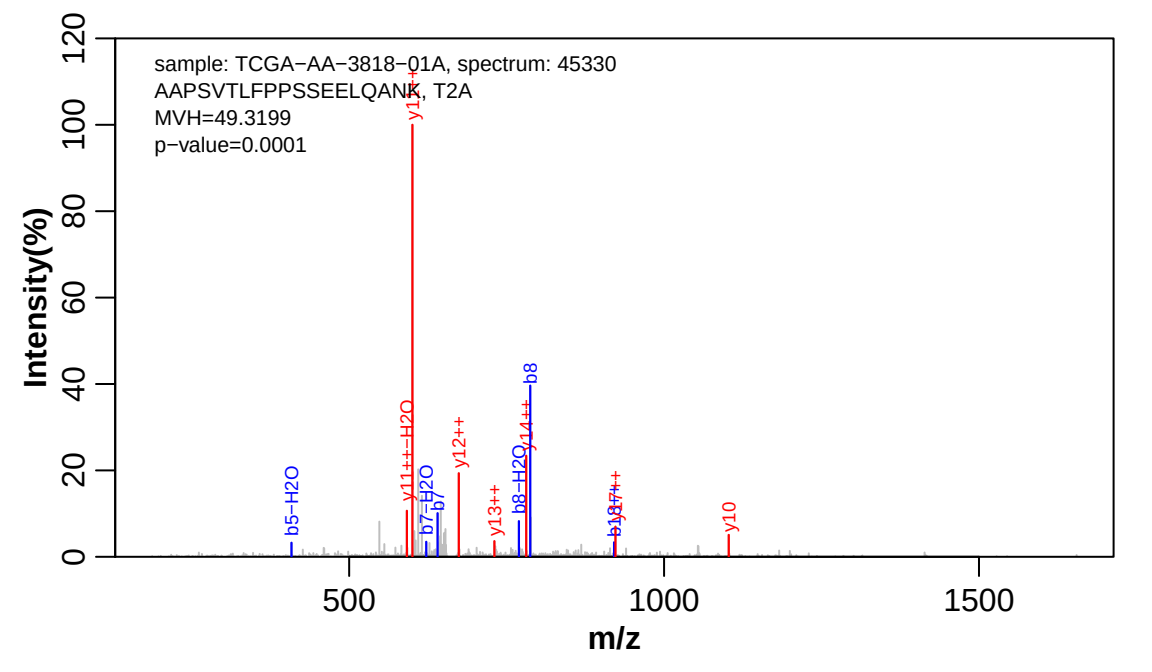

sample: TCGA−AA−3715−01A, spectrum: 55325
VPVTQATR, L3V
MVH=45.3803
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3−H2O
y3
b4
y4
b5
y5
b6
y6
y7

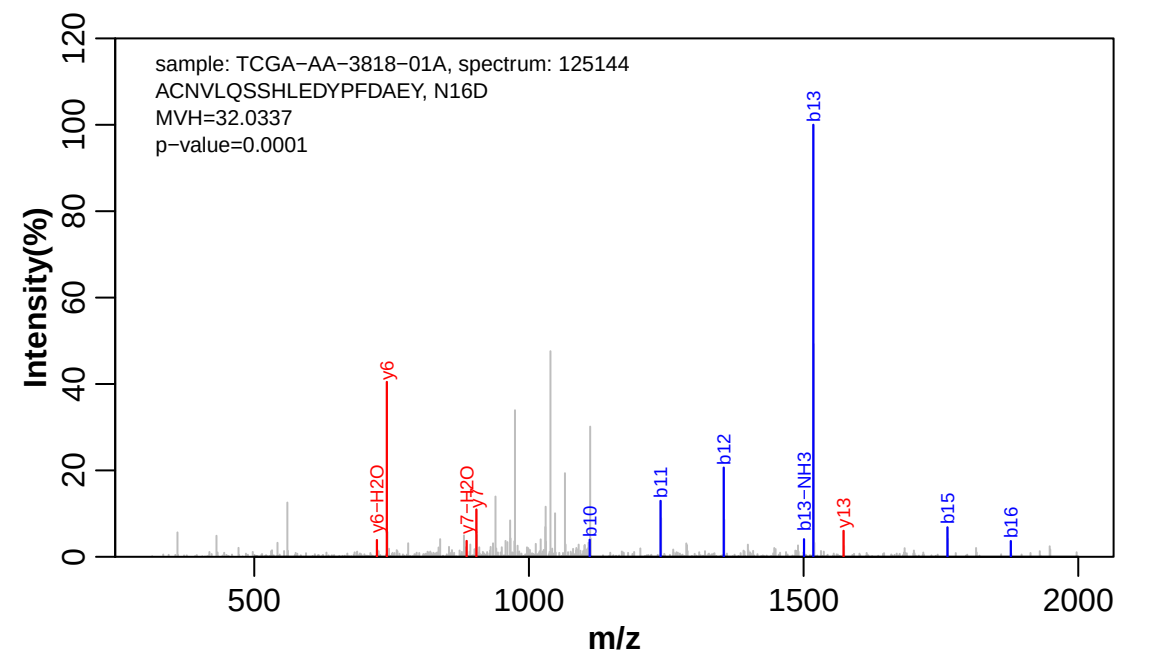

sample: TCGA−AA−3715−01A, spectrum: 70364
VQLPTESLQELLDLHR, T7S
MVH=31.4203
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
b3
y13++
y14++
y15++−NH3

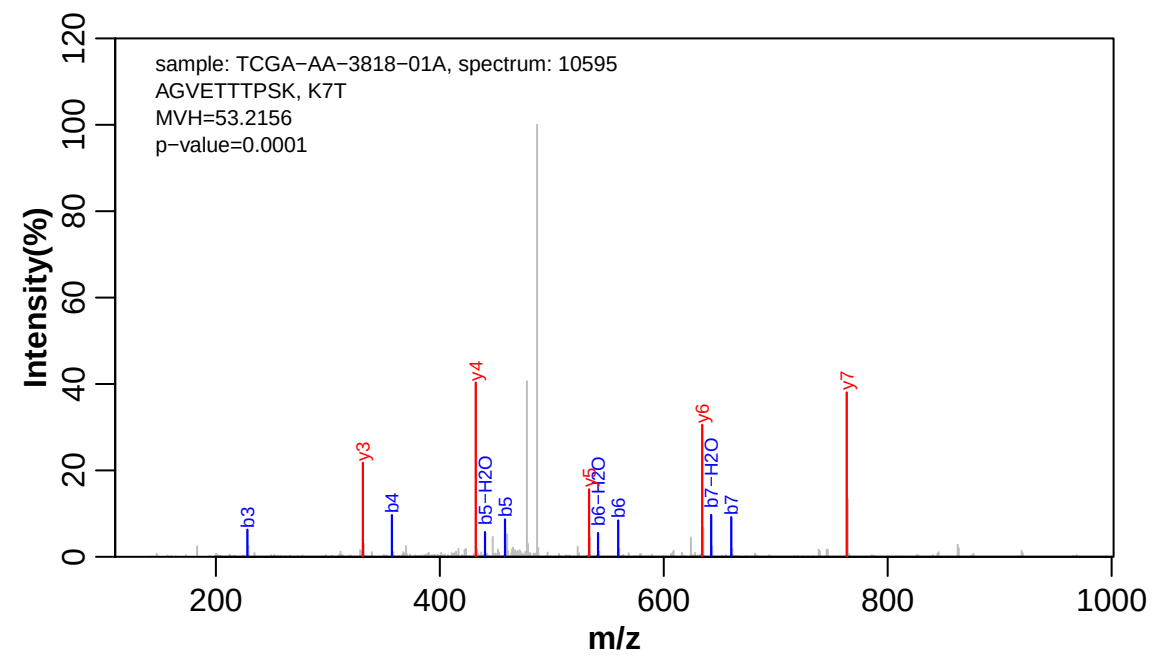

sample: TCGA−AA−3715−01A, spectrum: 107625
VQVLAAQLLSEMK, D11E
MVH=74.6985
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5
b5−NH3
b6
y5
b7−NH3
b8−NH3
y7−H2O
y7
b9
b9−NH3
y9
b10
y10−H2O
y10
b11−H2O
b11
y11
b12
b12−H2O

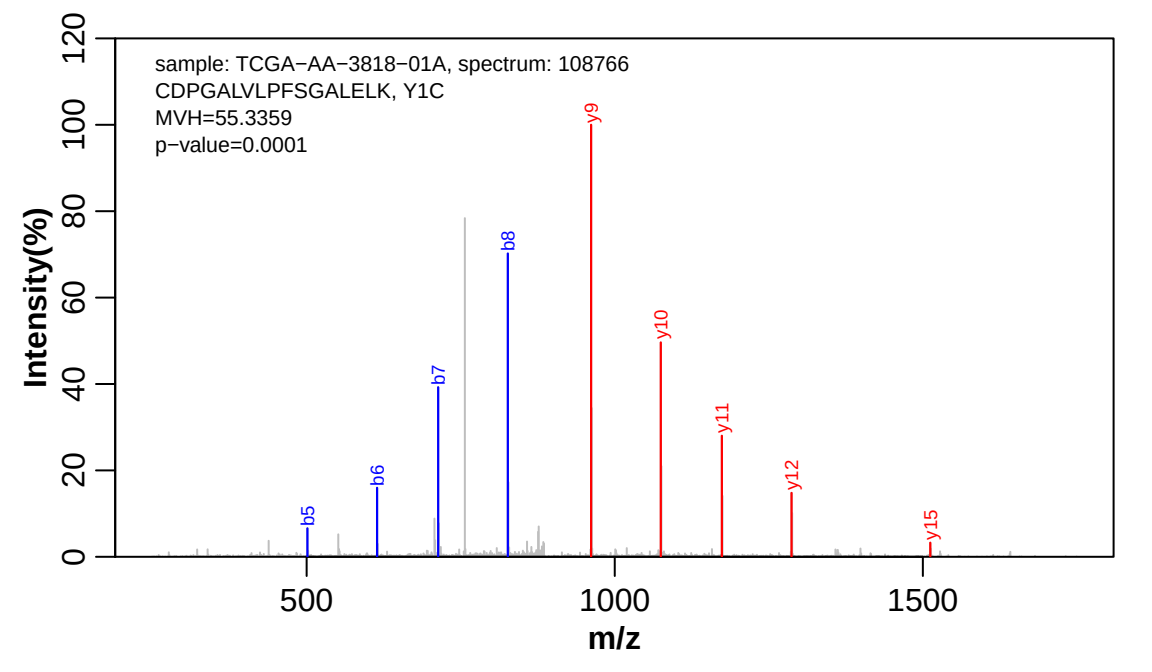

sample: TCGA−AA−3715−01A, spectrum: 43121
VWQTVSPVESR, G10S
MVH=30.9327
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b5−H2O
b5
b6−H2O
b6
y7
y8
y9
b2
b3
b4

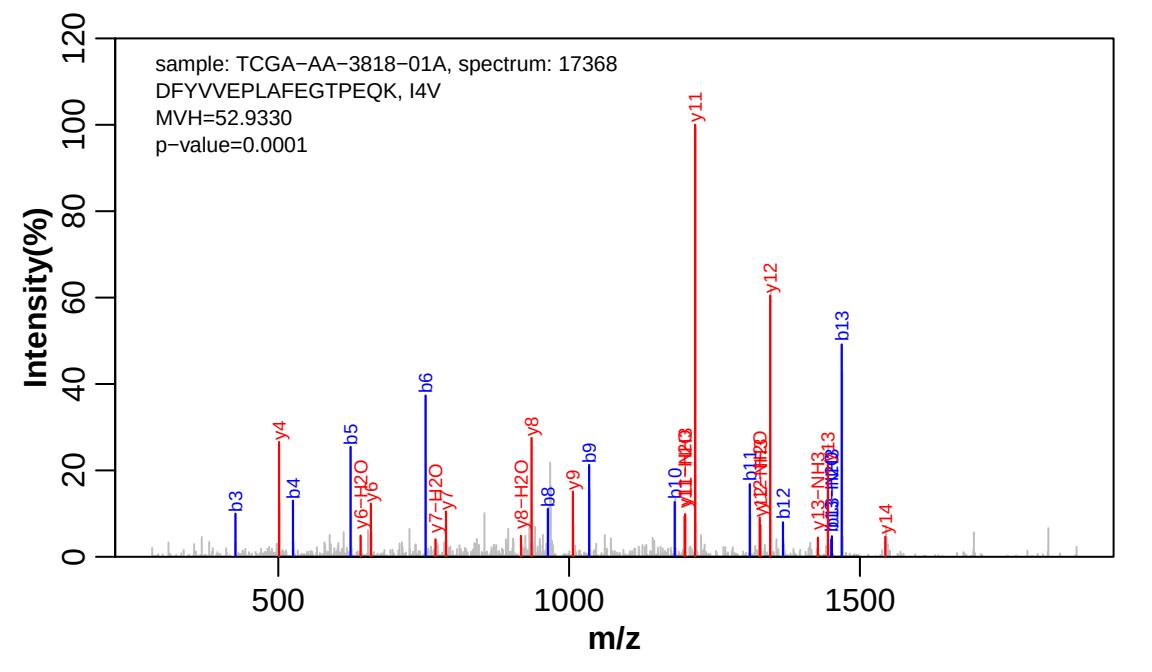

sample: TCGA−AA−3818−01A, spectrum: 53970
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=44.6011
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2++
b28++
b5
b6
y5
b7
y6
b8
b9
b11−NH3
b11++
b21++
b25++
b26++
b27++−H2O
b27++
b28++−H2O
b15−NH3
y12
y13

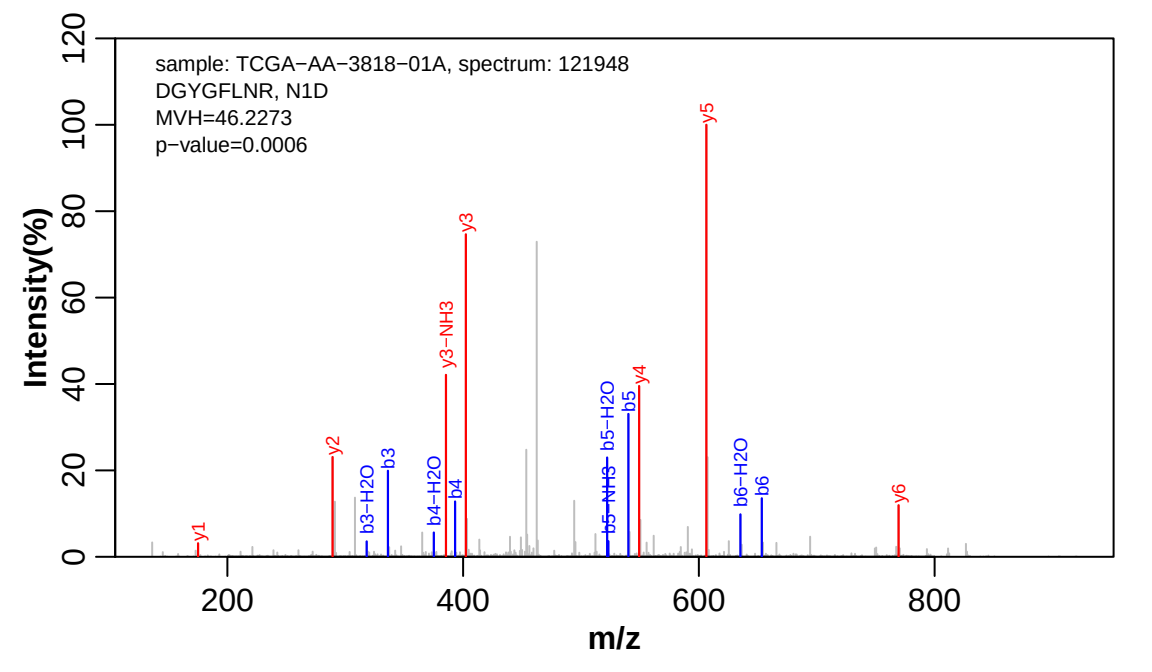

sample: TCGA−AA−3818−01A, spectrum: 45330
AAPSVTLFPPSSEELQANK, T2A
MVH=49.3199
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y11++−H2O
b5−H2O
b7−H2O
b7
y12++
y13++
b8−H2O
y14++
b8
b13/7++
y10

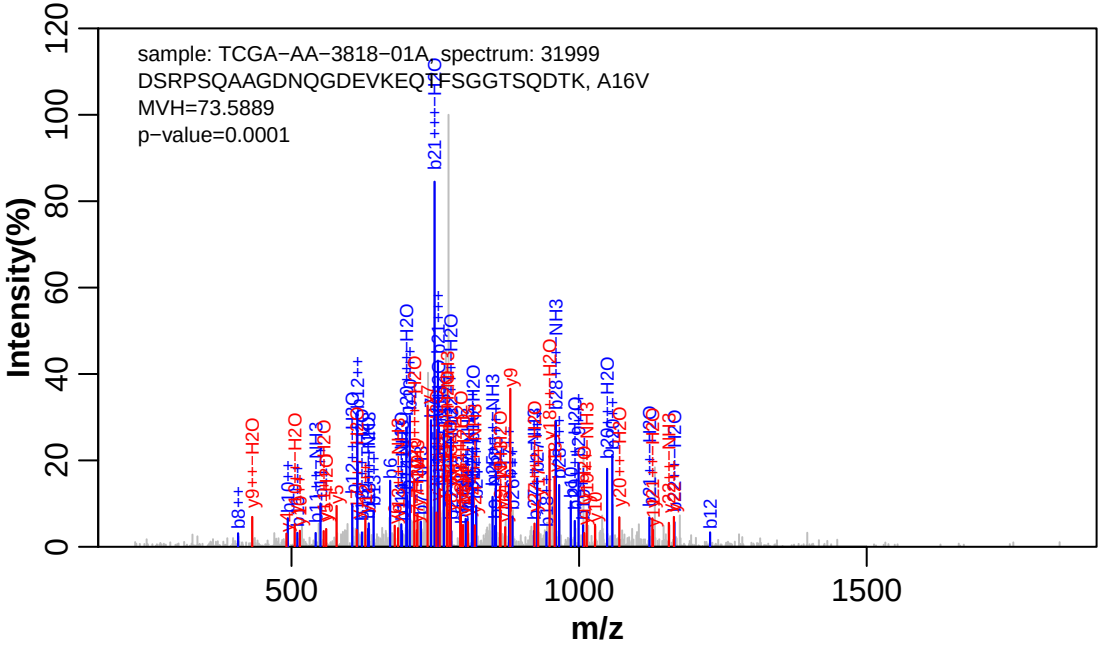

sample: TCGA−AA−3818−01A, spectrum: 125144
ACNVLQSSHLEDYPFDAEY, N16D
MVH=32.0337
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y6
y6−H2O
y7−H2O
y7
b10
b11
b12
b13
b13−NH3
y13
b15
b16

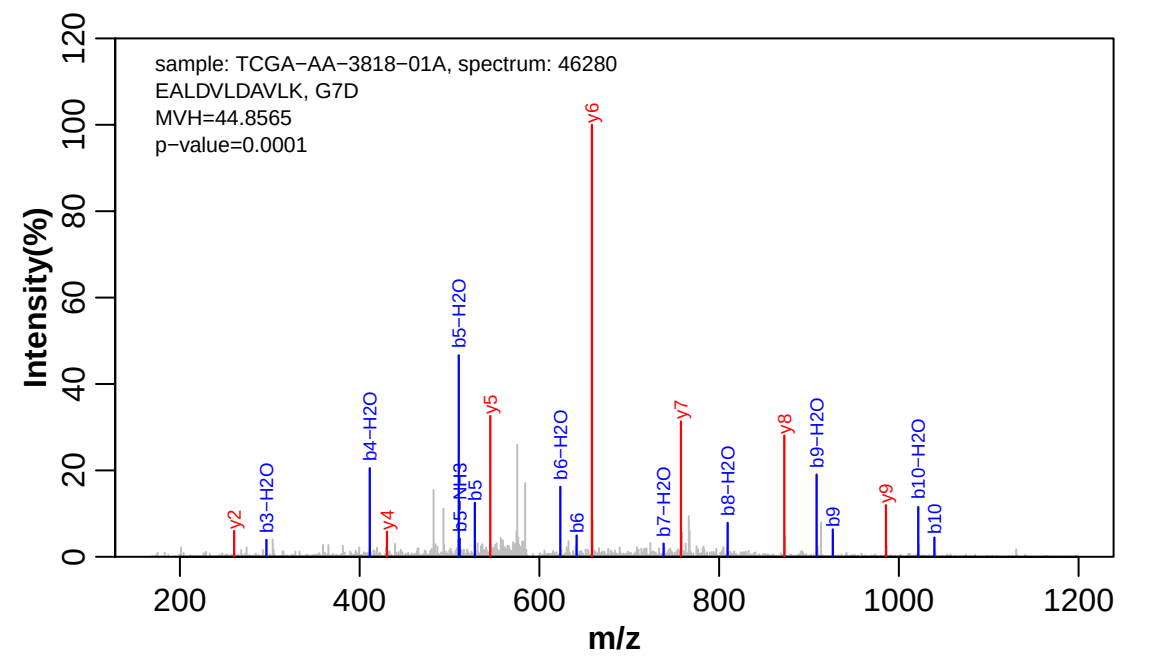

sample: TCGA−AA−3818−01A, spectrum: 10595
AGVETTTPSK, K7T
MVH=53.2156
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

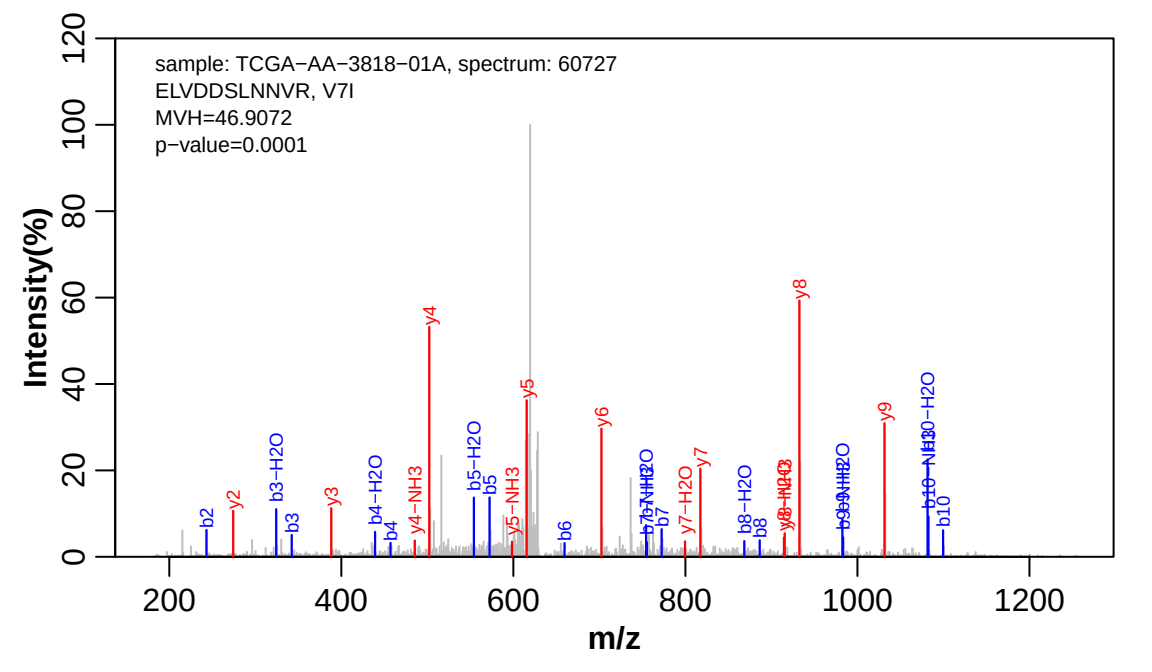

sample: TCGA−AA−3818−01A, spectrum: 108766
CDPGALVLPFSGALELK, Y1C
MVH=55.3359
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

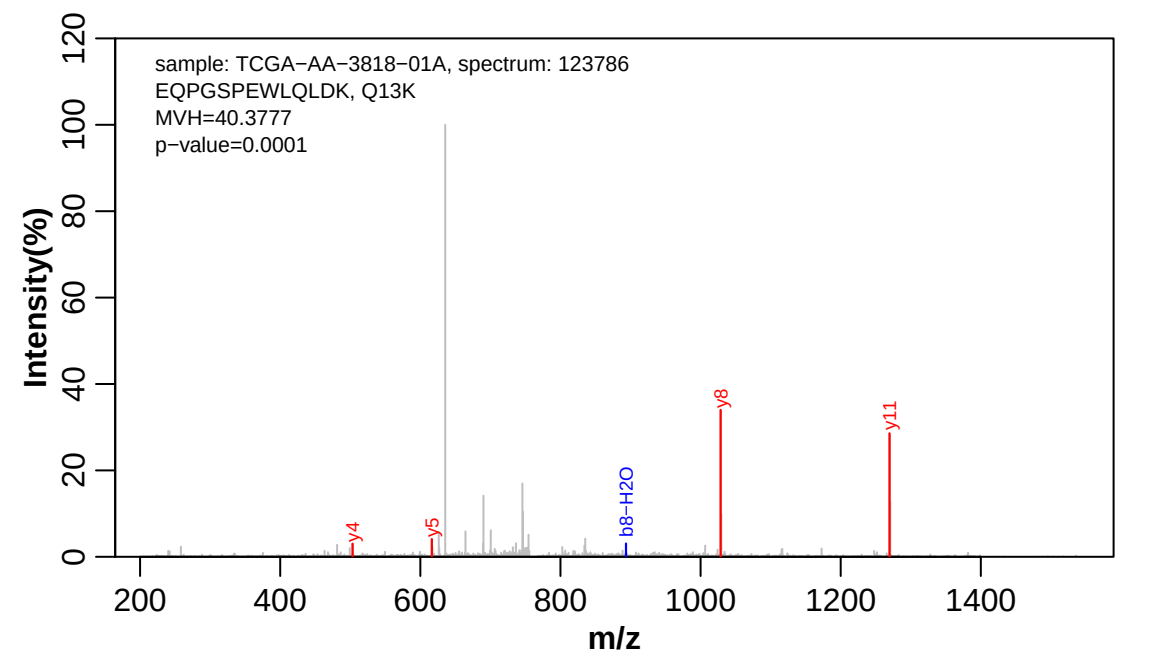

sample: TCGA−AA−3818−01A, spectrum: 17368
DFYVVEPLAFEGTPEQK, I4V
MVH=52.9330
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6−H2O
y6
b6
y7−H2O
y7
y8−H2O
y8
b8
y9
b9
b10
y11
y12
b11
y12−NH3
b12
y13−NH3
b13
y14

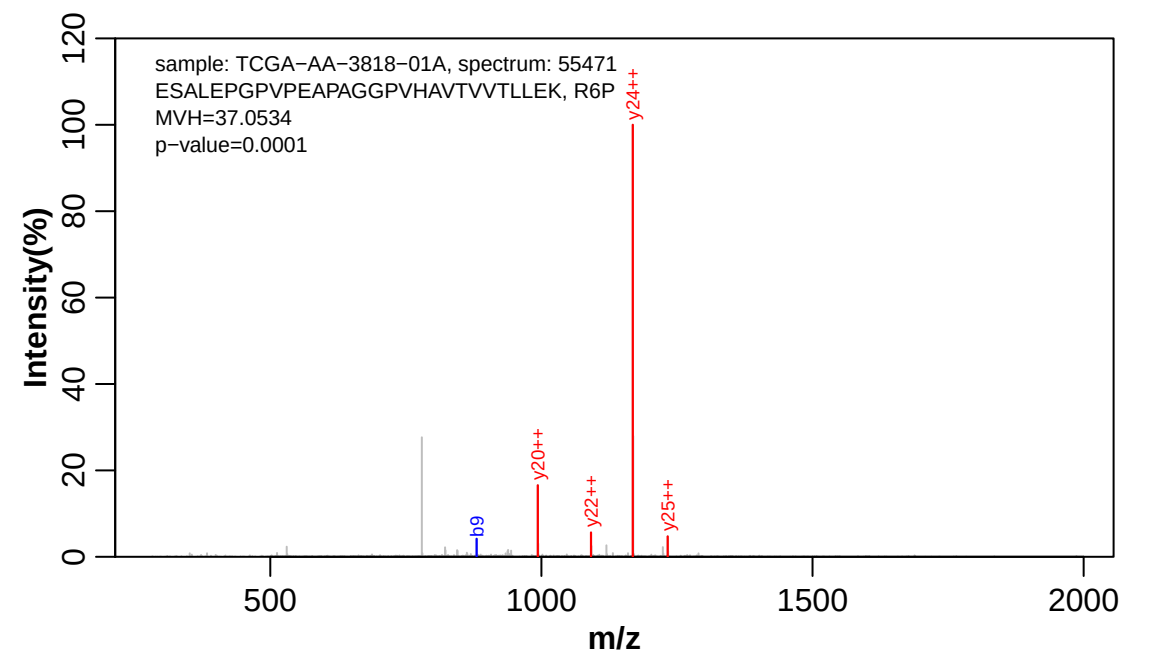

sample: TCGA−AA−3818−01A, spectrum: 121948
DGYGFLNR, N1D
MVH=46.2273
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3
y3−NH3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

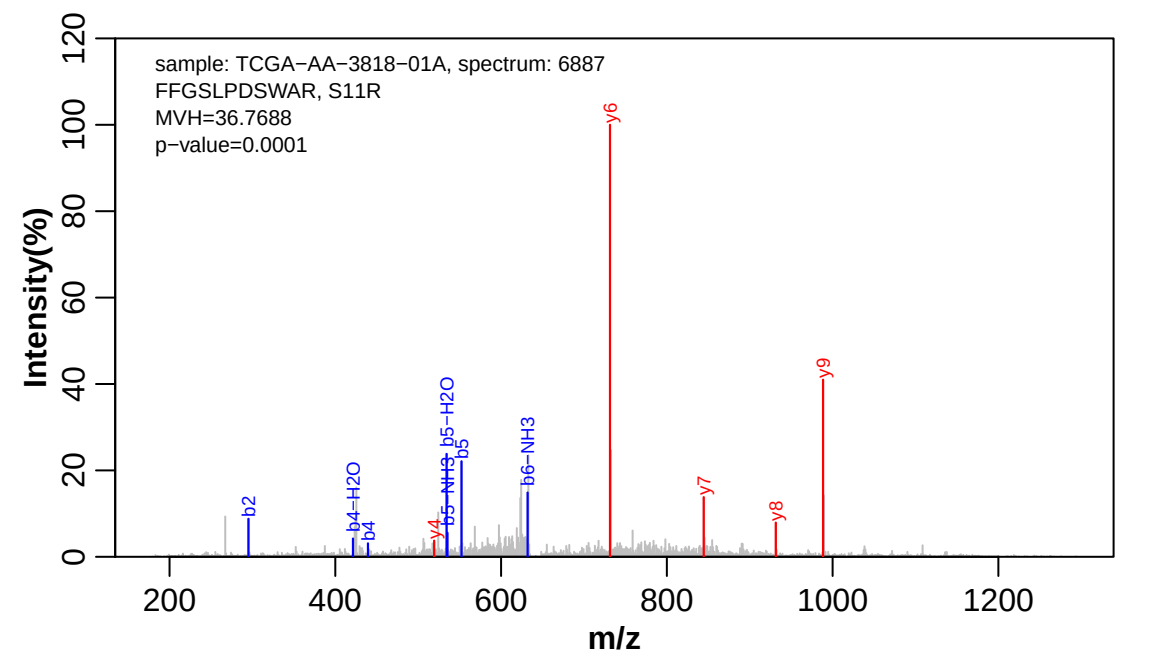

sample: TCGA−AA−3818−01A, spectrum: 31999
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=73.5889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

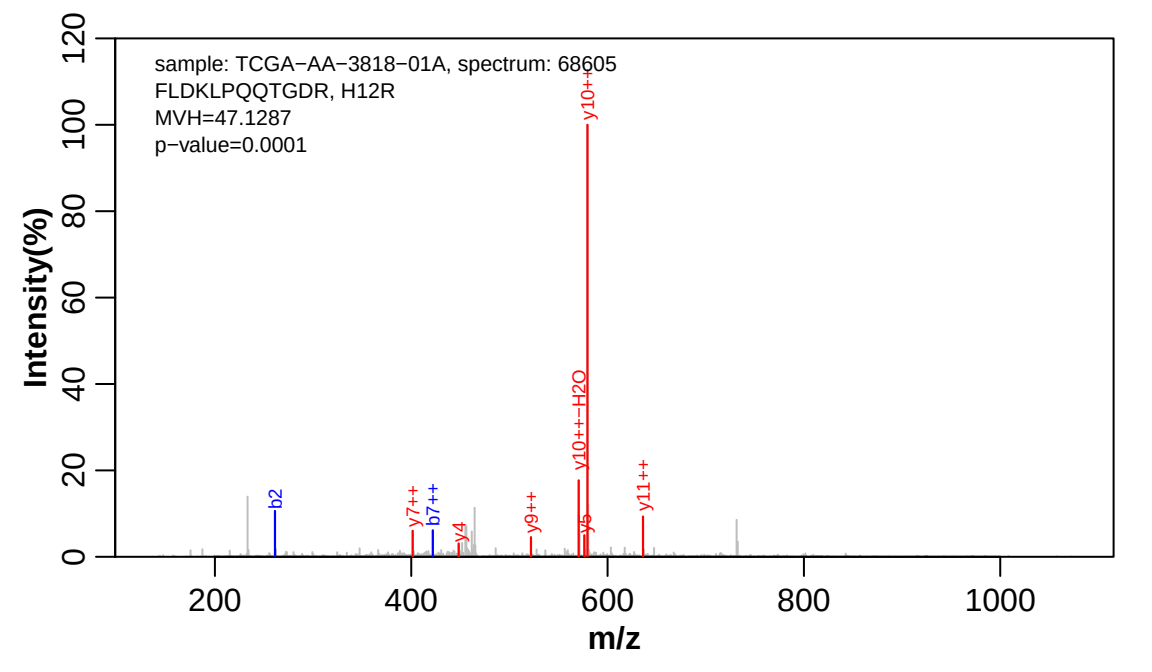

sample: TCGA−AA−3818−01A, spectrum: 46280
EALDVLDAVLK, G7D
MVH=44.8565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

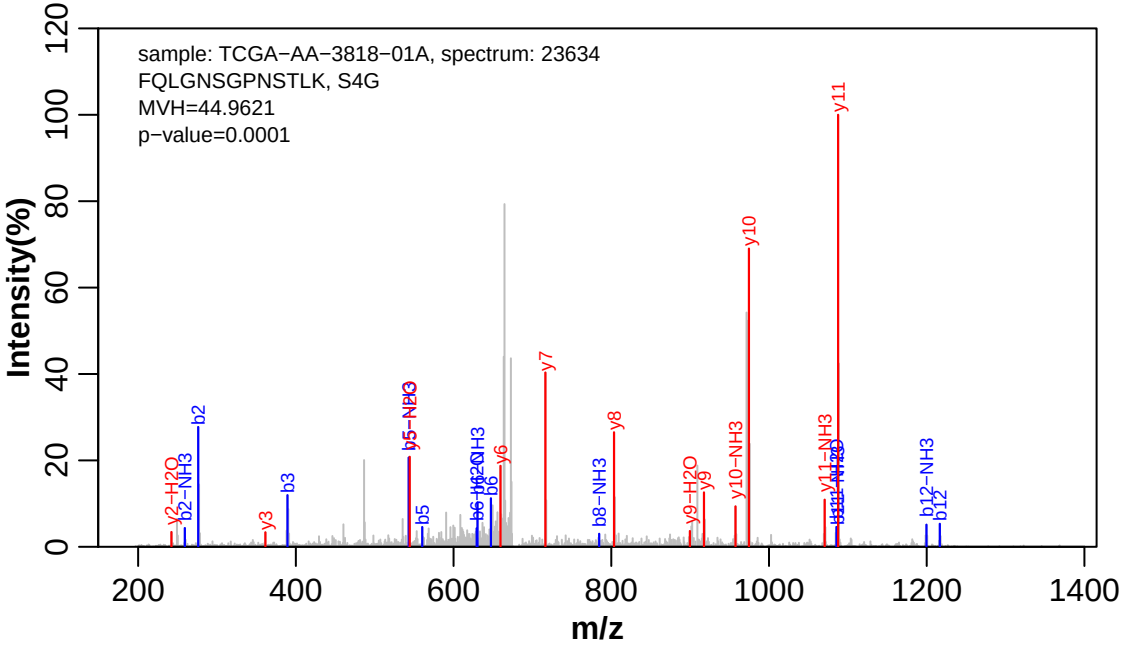

sample: TCGA−AA−3818−01A, spectrum: 60727
ELVDDSLNNVR, V7I
MVH=46.9072
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5−NH3
y5
b6
y6
y7−H2O
y7
b8−H2O
b8
y8
y9
b10−H2O
b10

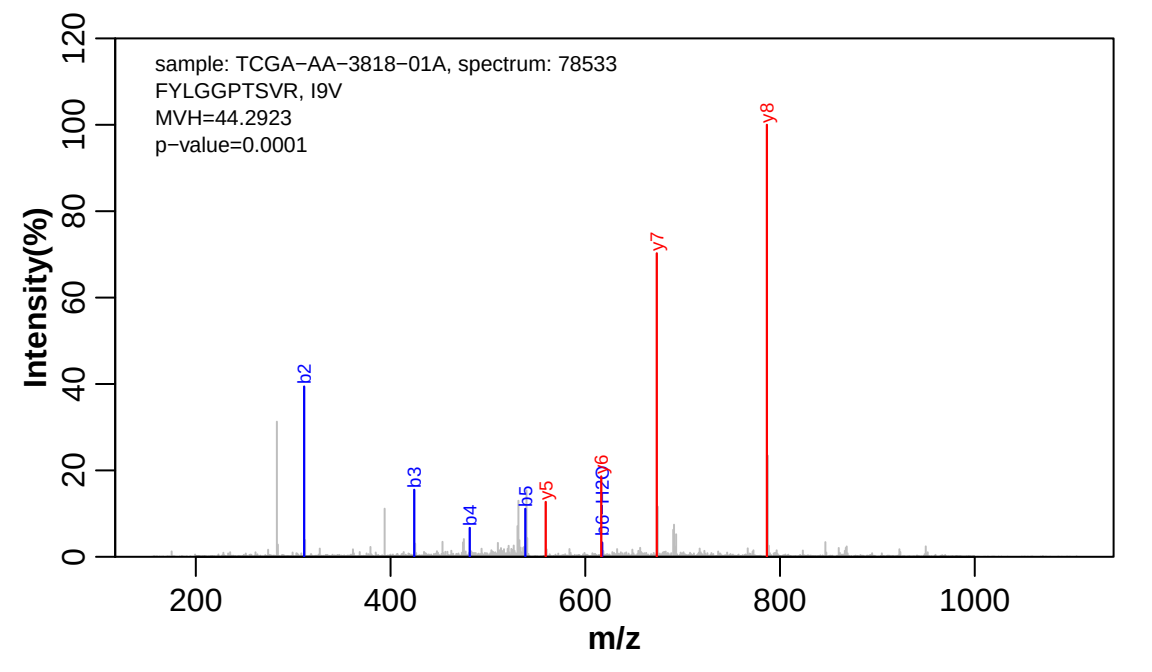

sample: TCGA−AA−3818−01A, spectrum: 123786
EQPGSPEWLQLDK, Q13K
MVH=40.3777
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y4
y5
b8−H2O
y8
y11

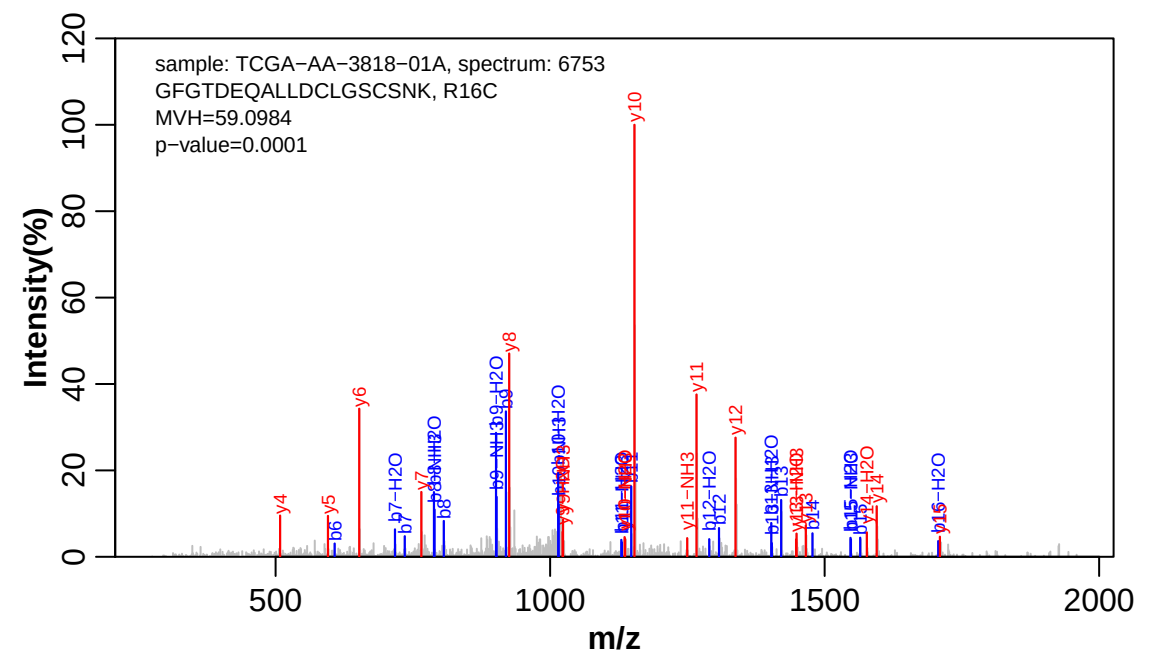

sample: TCGA−AA−3818−01A, spectrum: 55471
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=37.0534
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

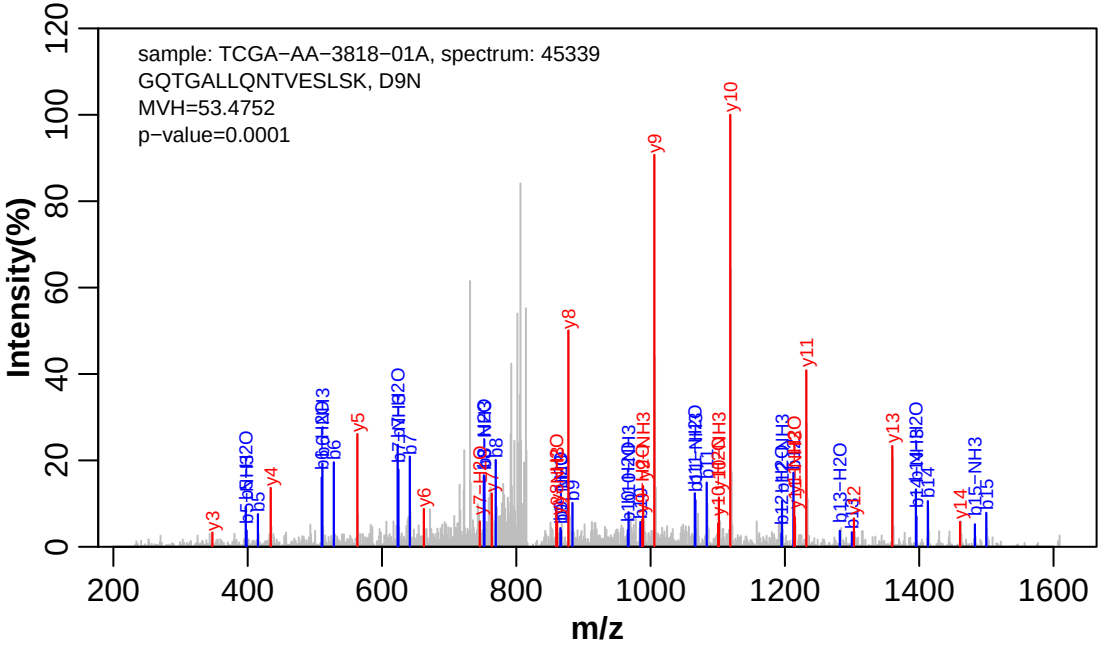

sample: TCGA−AA−3818−01A, spectrum: 6887
FFGSLPDSWAR, S11R
MVH=36.7688
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

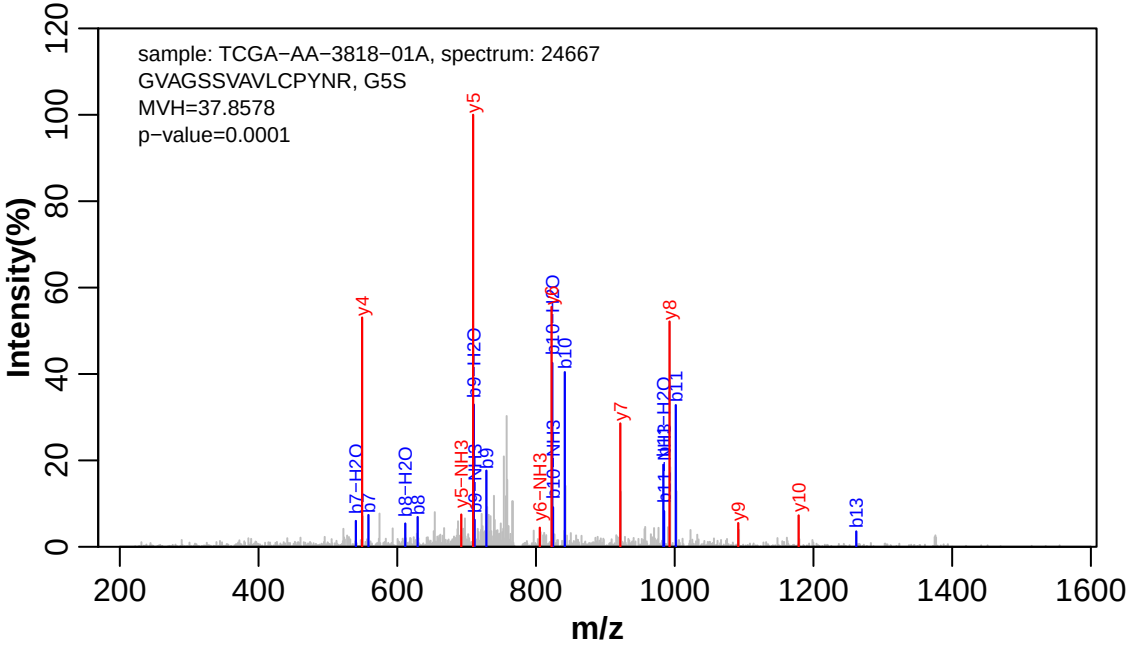

sample: TCGA−AA−3818−01A, spectrum: 68605
FLDKLPQQTGDR, H12R
MVH=47.1287
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y10++
y5
y11++

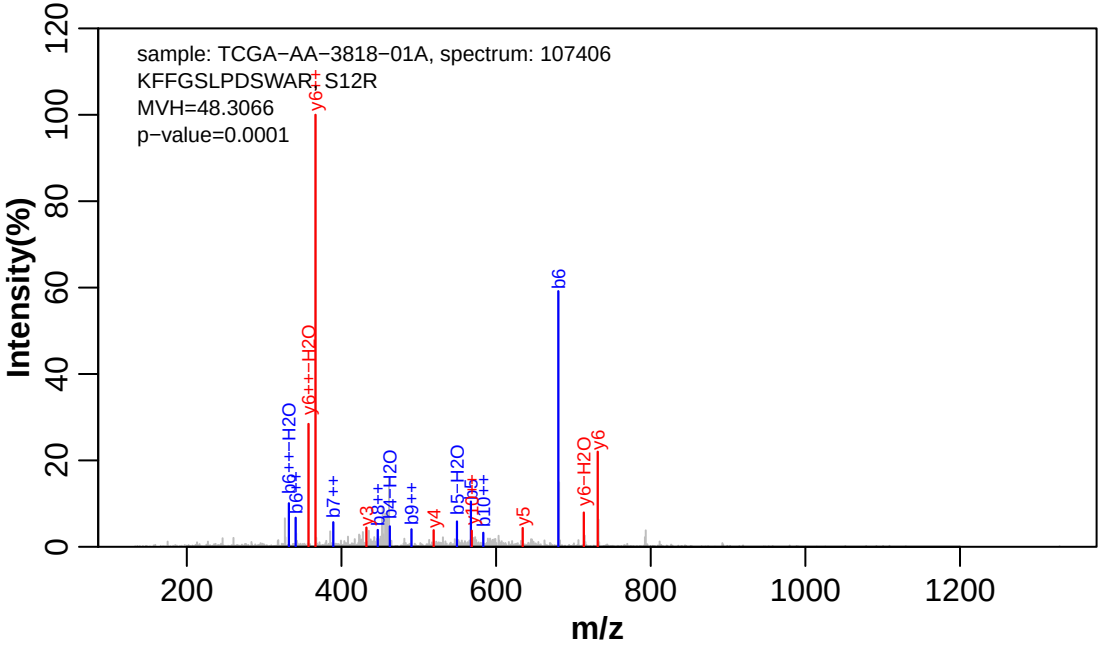

sample: TCGA−AA−3818−01A, spectrum: 23634
FQLGNSGPNSTLK, S4G
MVH=44.9621
p−value=0.0001
Intensity(%)
m/z
y11
y10
y7
y8
y6
b2
y2−H2O
b2−NH3
y3
b3
b5
y10−NH3
y9−H2O
y9
b8−NH3
b12−NH3
b12

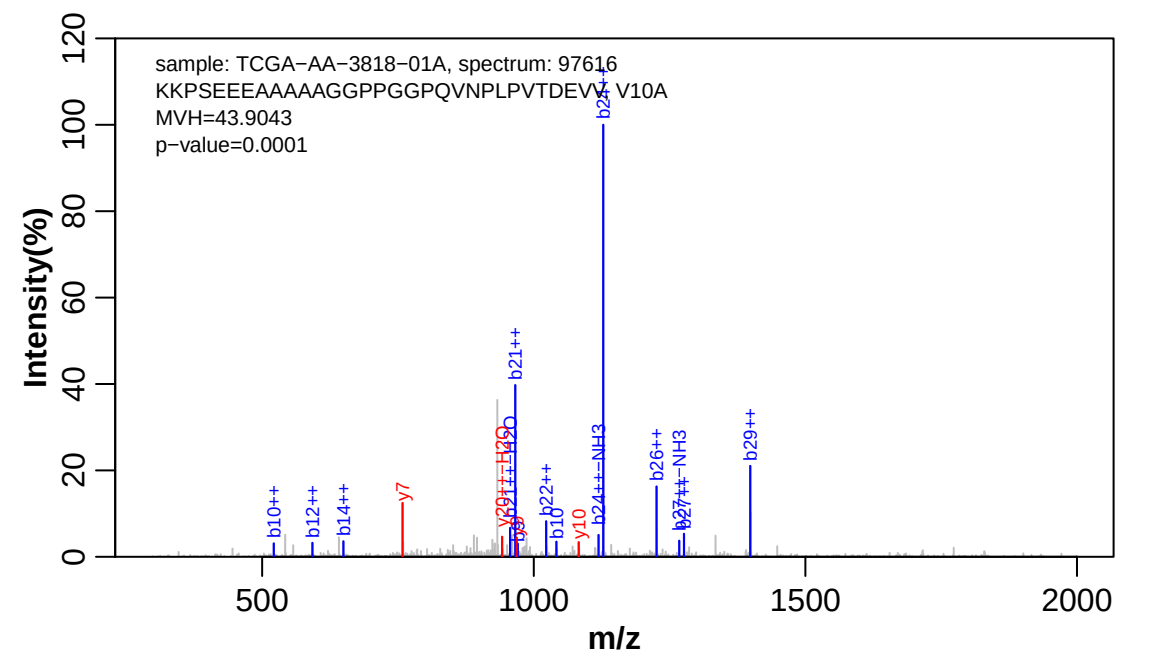

sample: TCGA−AA−3818−01A, spectrum: 78533
FYLGGPTSVR, I9V
MVH=44.2923
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5
y5
b6−H2O6
y7
y8

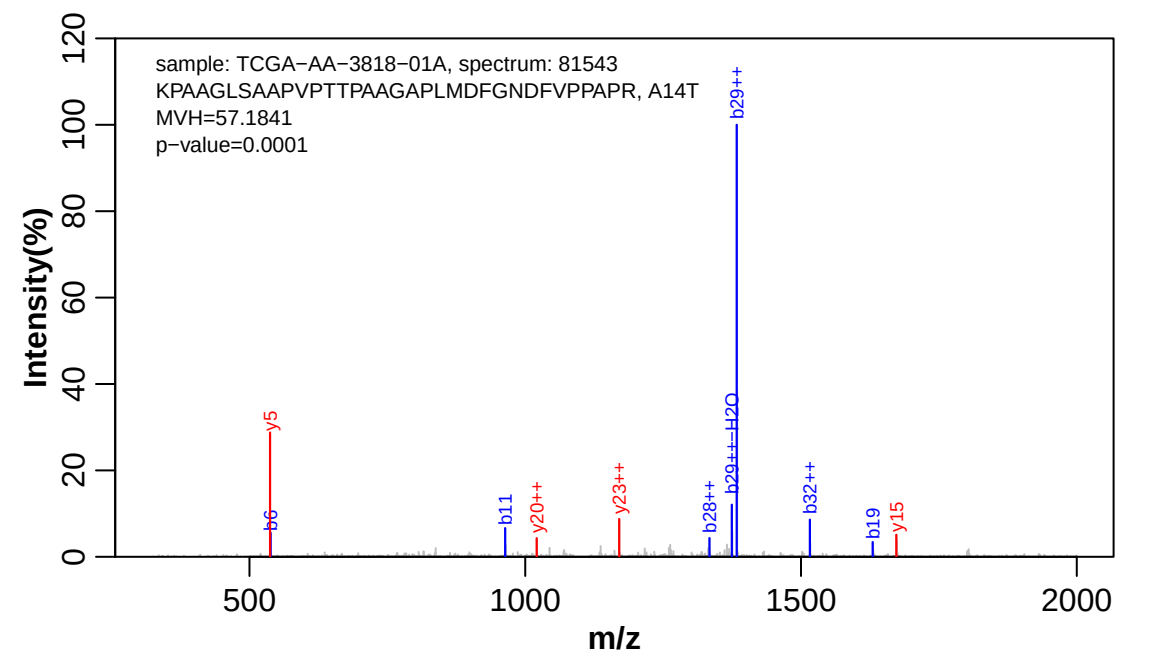

sample: TCGA−AA−3818−01A, spectrum: 6753
GFGTDEQALLDCLGSCSNK, R16C
MVH=59.0984
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y8
y6
y11
y12
y4
y5
b6
b7
b7−H2O
b8
b9−NH3
b9
b10−H2O
y11−NH3
b12−H2O
y14
y14−H2O
b15−H2O
y15−H2O

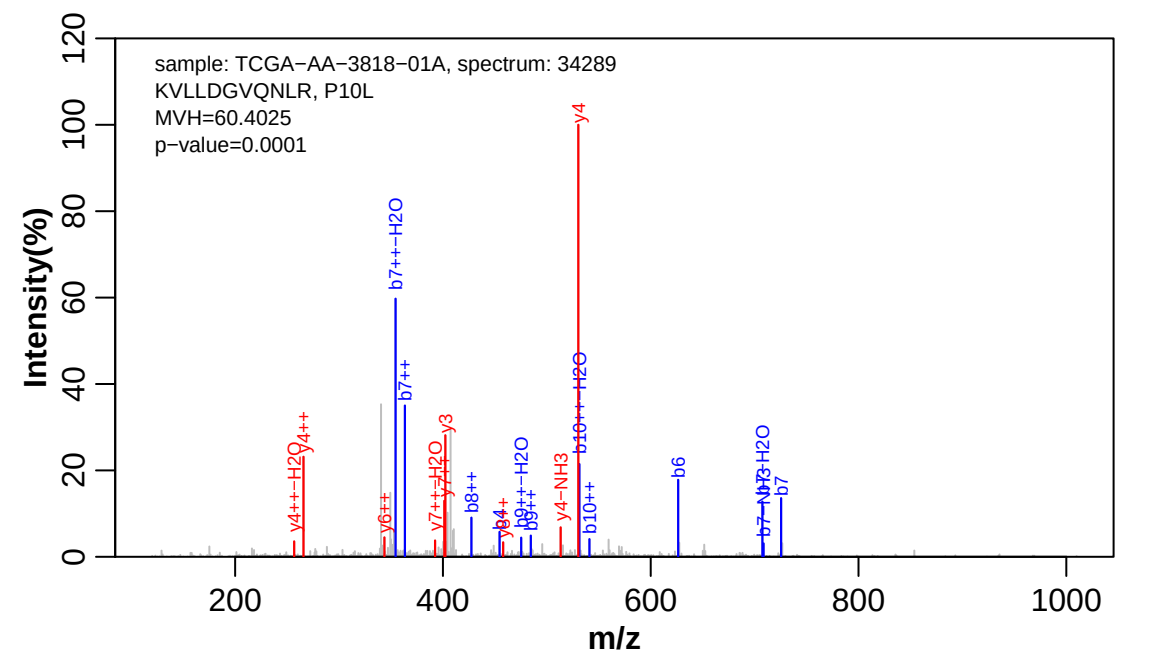

sample: TCGA−AA−3818−01A, spectrum: 45339
GQTGALLQNTVESLSK, D9N
MVH=53.4752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y6
y4
y3
y14
b15−NH3
b13−H2O
b14
b15

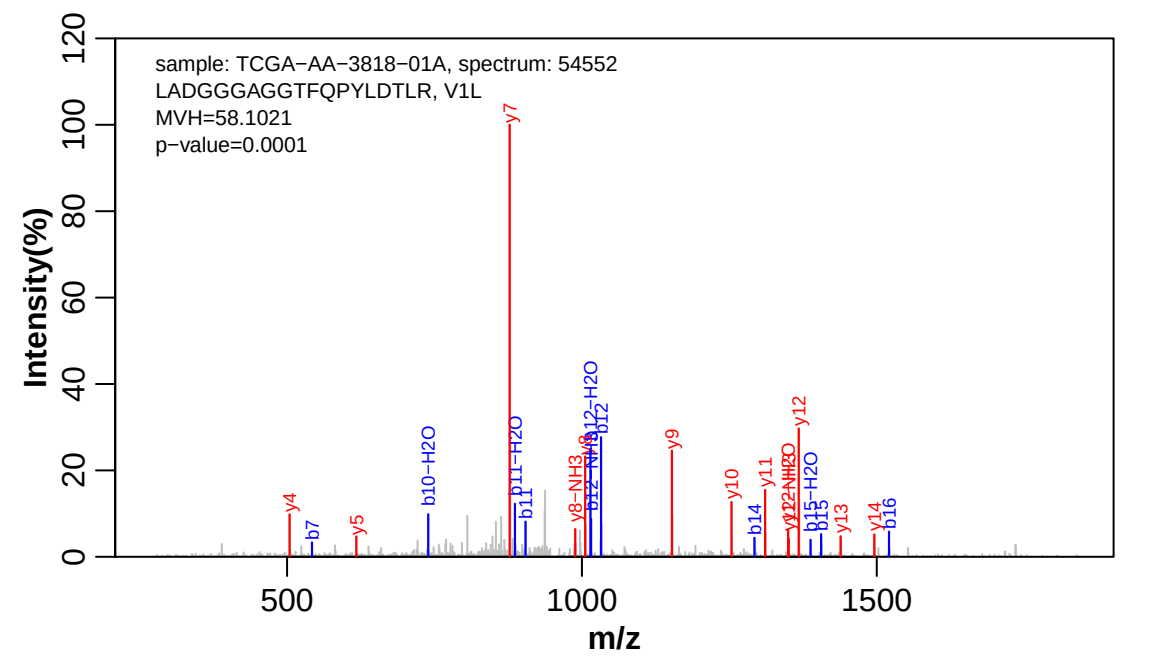

sample: TCGA−AA−3818−01A, spectrum: 24667
GVAGSSVAVLCPYNR, G5S
MVH=37.8578
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y5
b9−H2O
b10−H2O
b10
y8
y7
b11
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y9
y10
b13

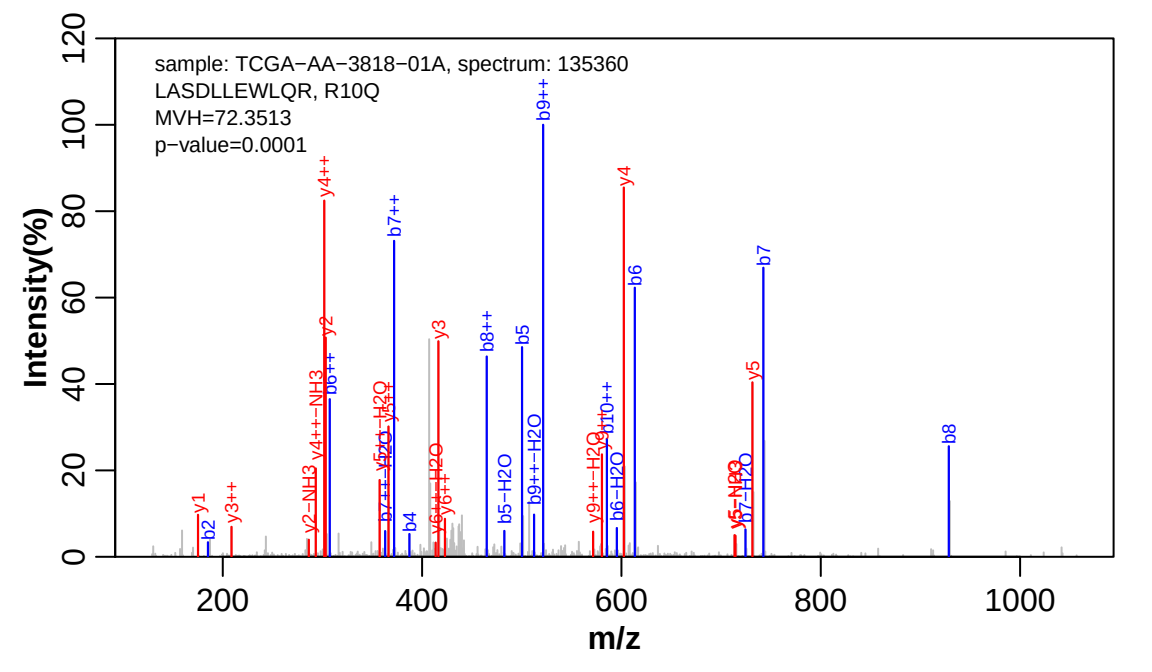

sample: TCGA−AA−3818−01A, spectrum: 107406
KFFGSLPDSWART S12R
MVH=48.3066
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++
y6++−H2O
b6++−H2O
b6++
b7++
y3++
b4−H2O
b9++
y4
b5−H2O
b10++
y5
b6
y6−H2O
y6

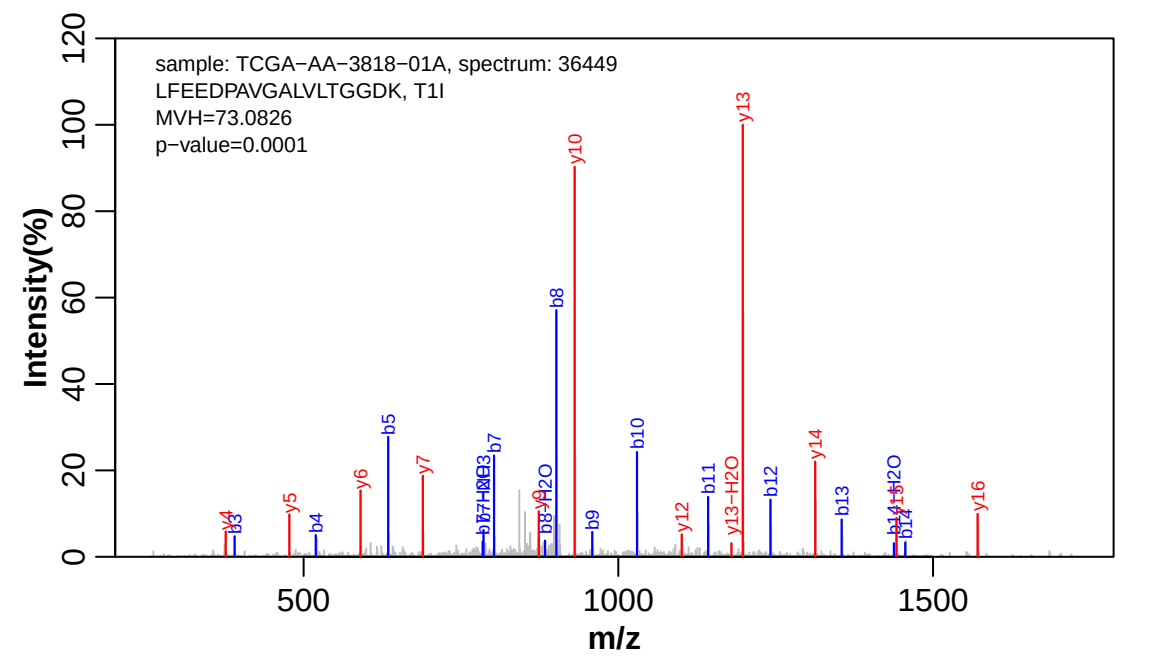

sample: TCGA−AA−3818−01A, spectrum: 97616
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=43.9043
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b10++
b12++
b14++
y7
y20++−H2O
y21++−H2O
b9
b21++
b10
b22++
y10
b24++−NH3
b24++
b26++
b27++−NH3
b29++

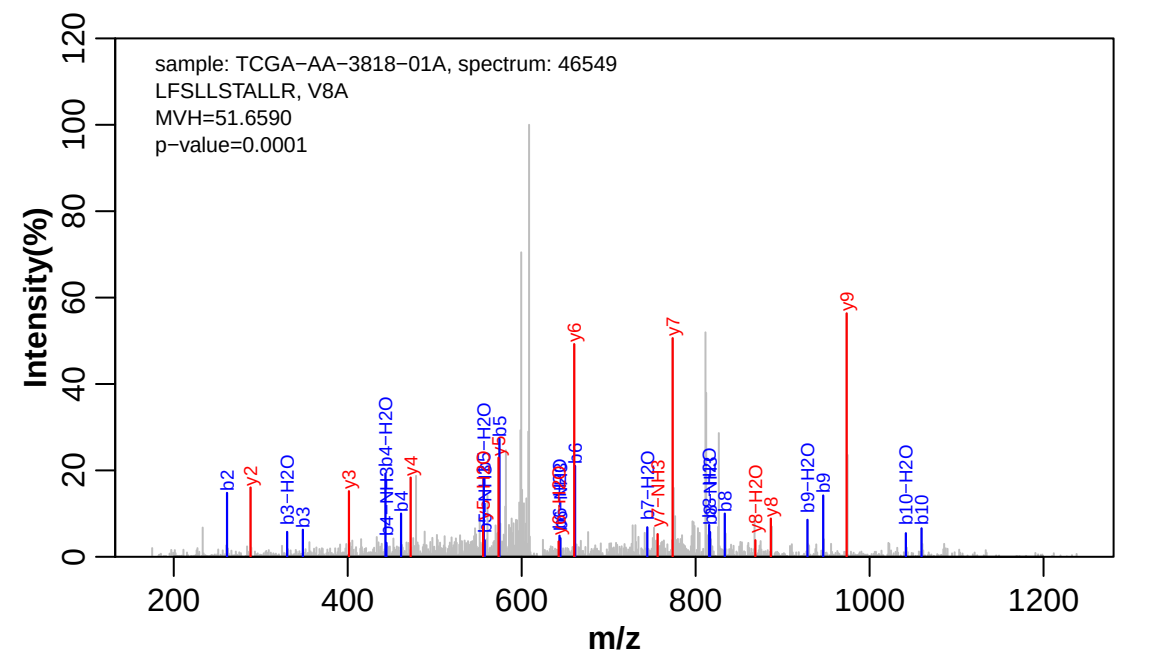

sample: TCGA−AA−3818−01A, spectrum: 81543
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=57.1841
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b6
y5
b11
y20++
y23++
b28++
b29++−H2O
b29++
b32++
b19
y15

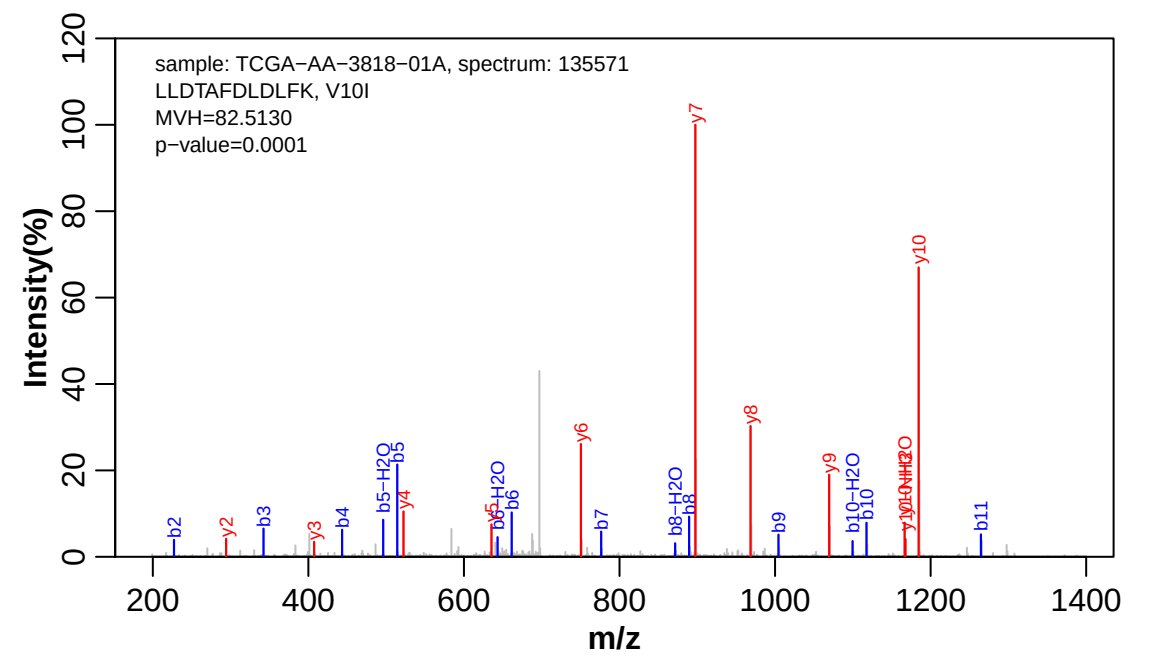

sample: TCGA−AA−3818−01A, spectrum: 34289
KVLLDGVQNLR, P10L
MVH=60.4025
p−value=0.0001
Intensity(%)
m/z
y4
b7++−H2O
b7++
y4++−H2O
y4++
y6++
y7++−H2O
y3
b8++
y8++
b9++−H2O
b9++
y4−NH3
b10++−H2O
b10++
b6
b7−NH3−H2O
b7

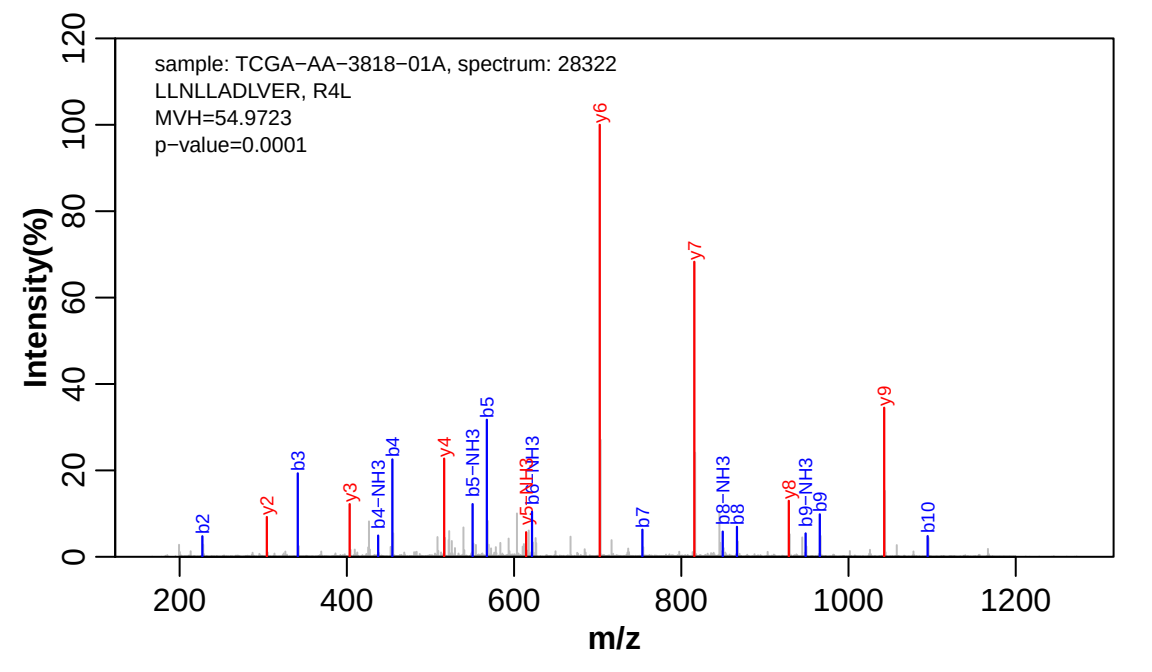

sample: TCGA−AA−3818−01A, spectrum: 54552
LADGGGAGGTFQPYLDTLR, V1L
MVH=58.1021
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y4
b7
y5
b10−H2O
b11−H2O
b11
y8−NH3
y8
b12−NH3
b12
b12−H2O
y9
y10
b14
y11
y12−NH3
y12−H2O
y12
b15−H2O
b15
y13
y14
b16

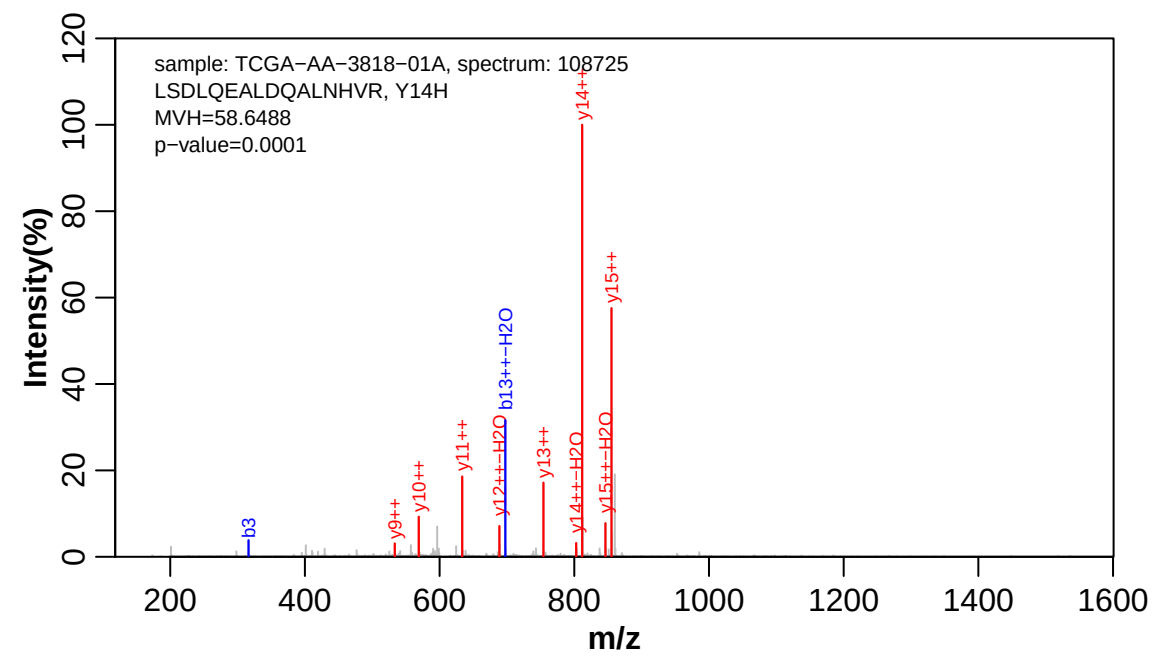

sample: TCGA−AA−3818−01A, spectrum: 135360
LASDLLEWLQR, R10Q
MVH=72.3513
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y3++
y2−NH3
y4++−NH3
y4++
b6++
y2
y5++−H2O
y5++
b7++
b4
y6++−H2O
y6++
y3
b8++
b5−H2O
b5
b9++−H2O
b9++
y9++−H2O
b6−H2O
b10++
y4
b6
b7
y5
b8

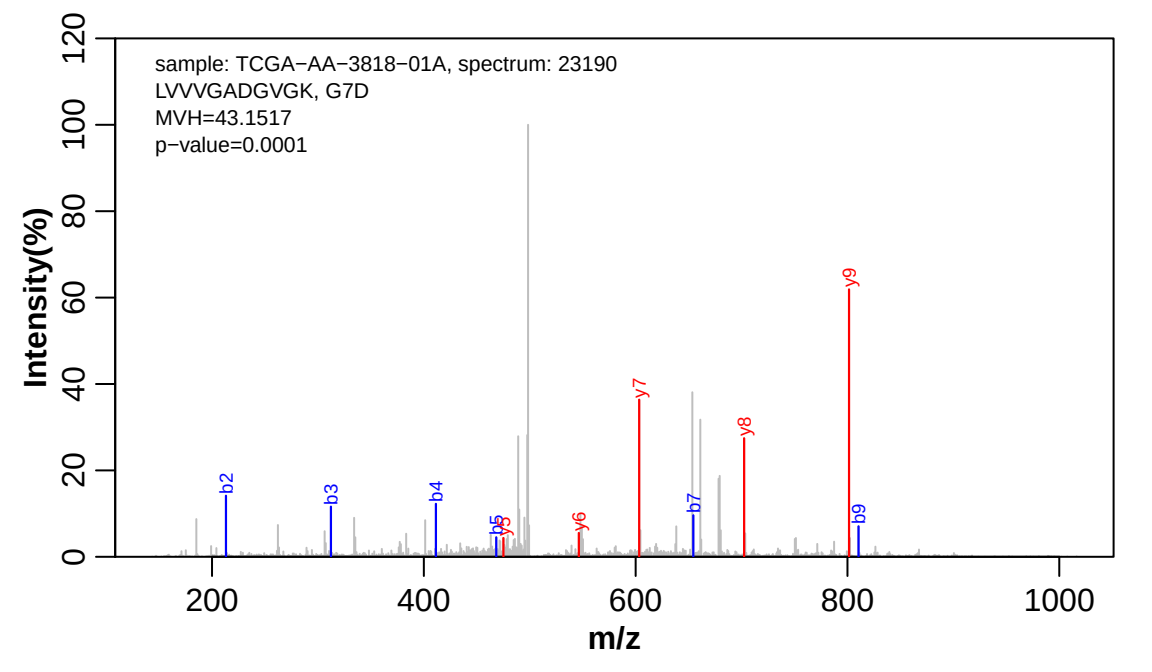

sample: TCGA−AA−3818−01A, spectrum: 36449
LFEEDPAVGALVLTGGDK, T1I
MVH=73.0826
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b3
y5
b4
y6
b5
y7
b7
b8
y10
b9
b10
y12
b11
y13−H2O
y13
b12
y14
b13
y16

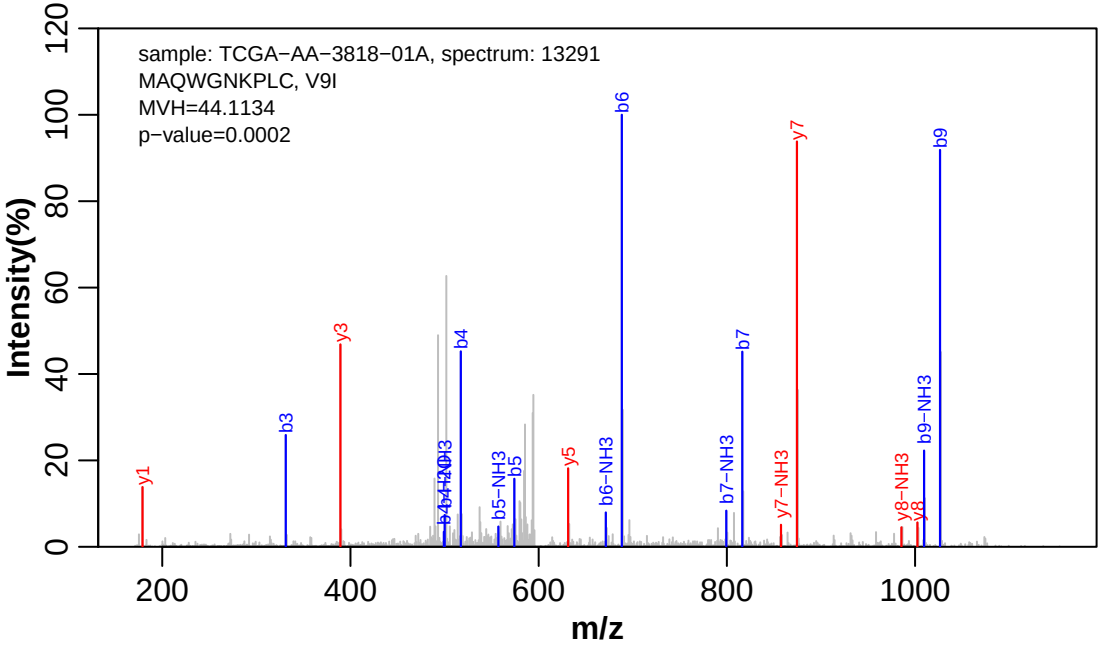

sample: TCGA−AA−3818−01A, spectrum: 46549
LFSLLSTALLR, V8A
MVH=51.6590
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−NH3
b4−H2O
b4
y4
y5−H2O
y5
b6
y6
y7
b7−H2O
y7−NH3
b8−NH3
b8−H2O
b8
y8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

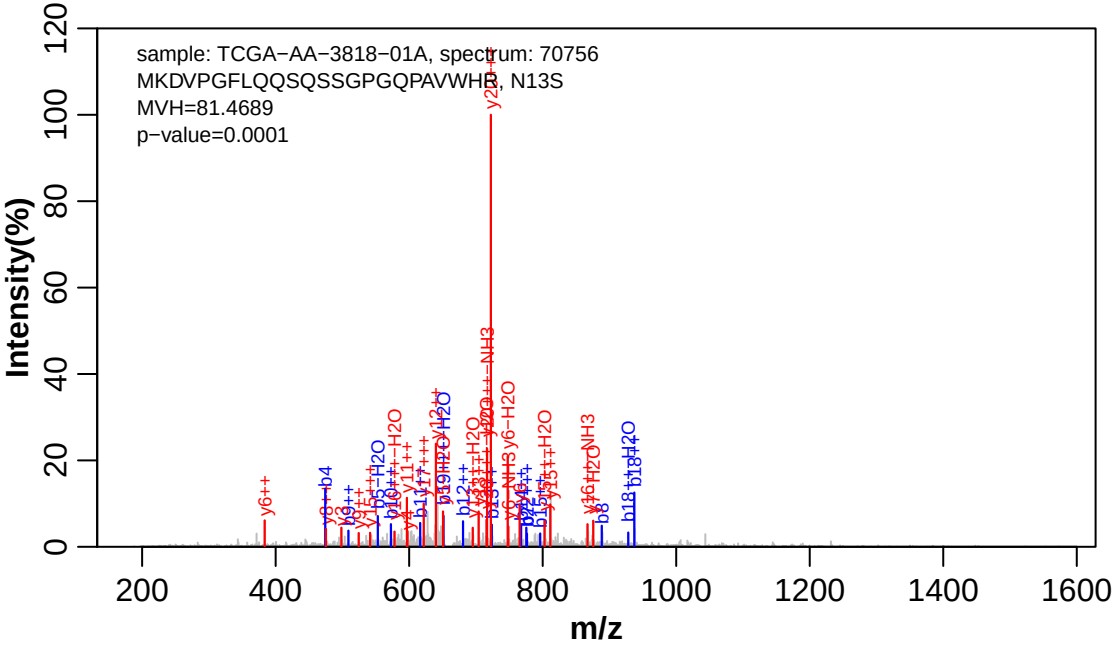

sample: TCGA−AA−3818−01A, spectrum: 135571
LLDTAFDLDLFK, V10I
MVH=82.5130
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
y5
b6−H2O
b6
y6
b7
b8−H2O
b8
y7
b9
y8
y9
b10−H2O
b10
y10−NH3
y10−H2O
y10
b11

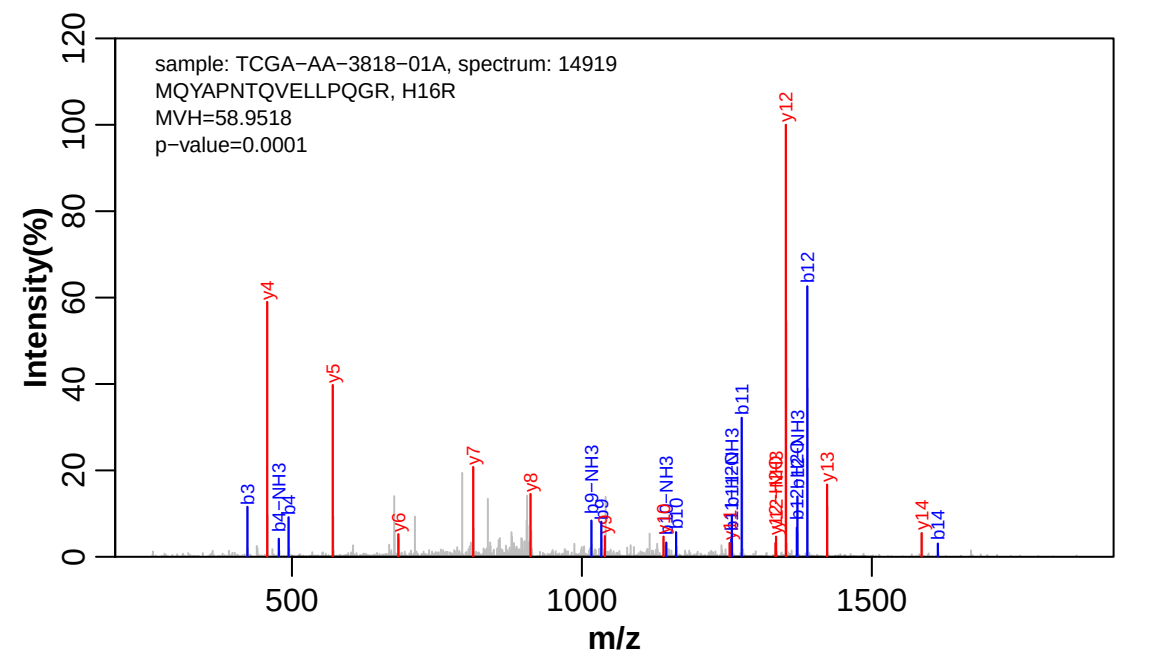

sample: TCGA−AA−3818−01A, spectrum: 28322
LLNLLADLVER, R4L
MVH=54.9723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
b9−NH3
b9
b10
b0−NH3
y5−NH3

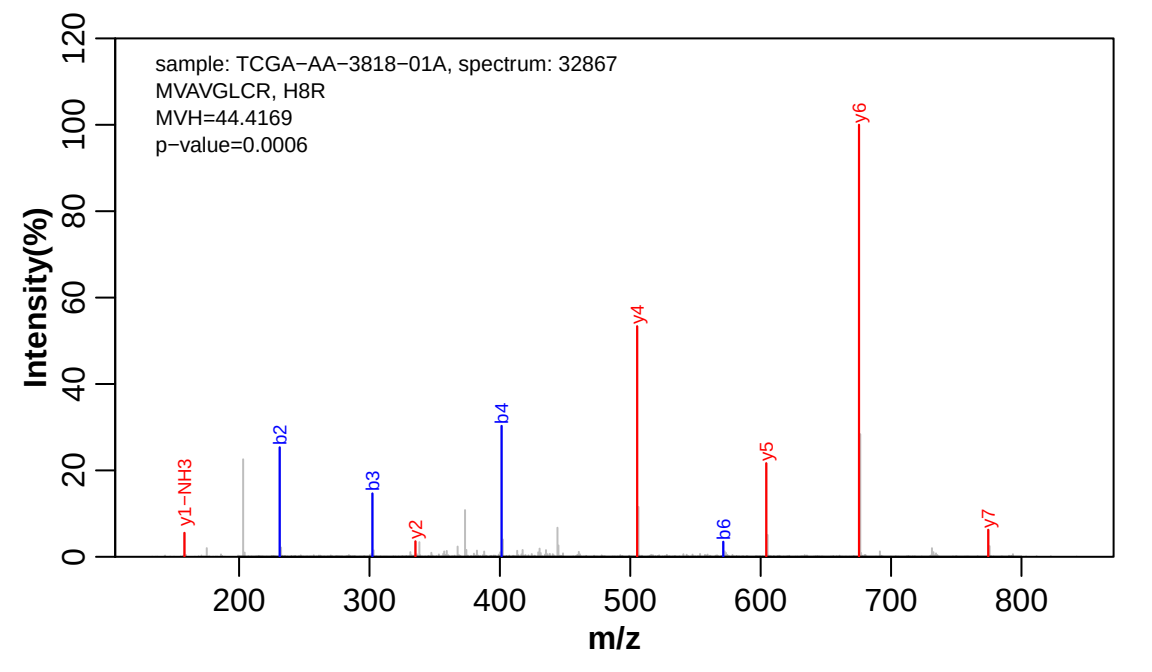

sample: TCGA−AA−3818−01A, spectrum: 108725
LSDLQEALDQALNHVR, Y14H
MVH=58.6488
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y9++
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

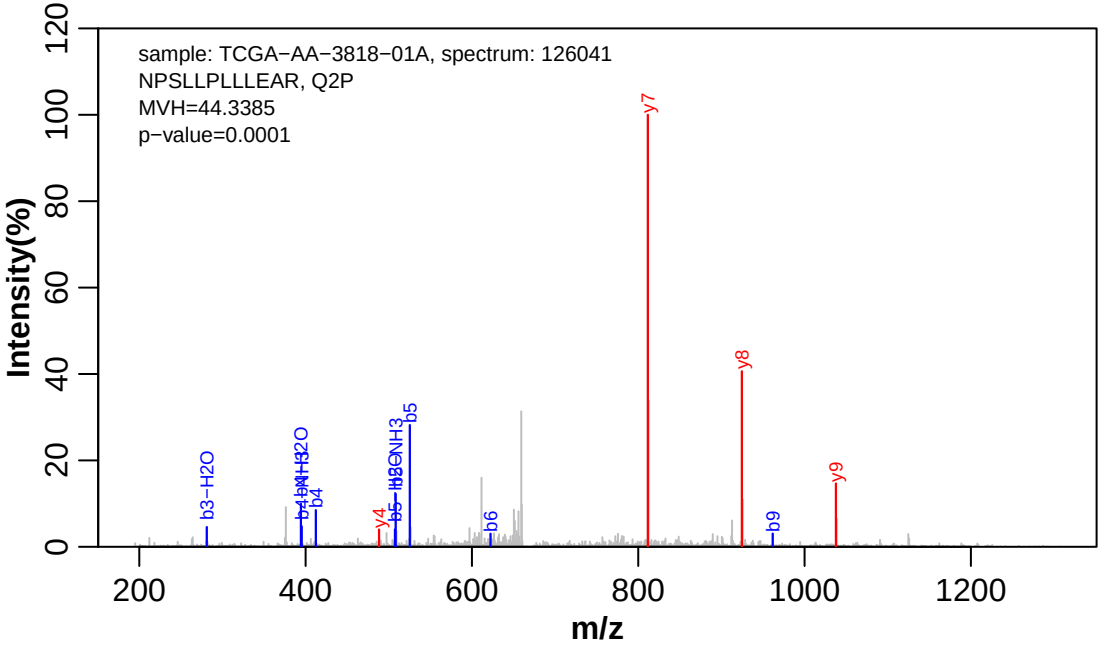

sample: TCGA−AA−3818−01A, spectrum: 23190
LVVVGADGVGK, G7D
MVH=43.1517
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5
y5
y6
y7
b7
y8
y9
b9

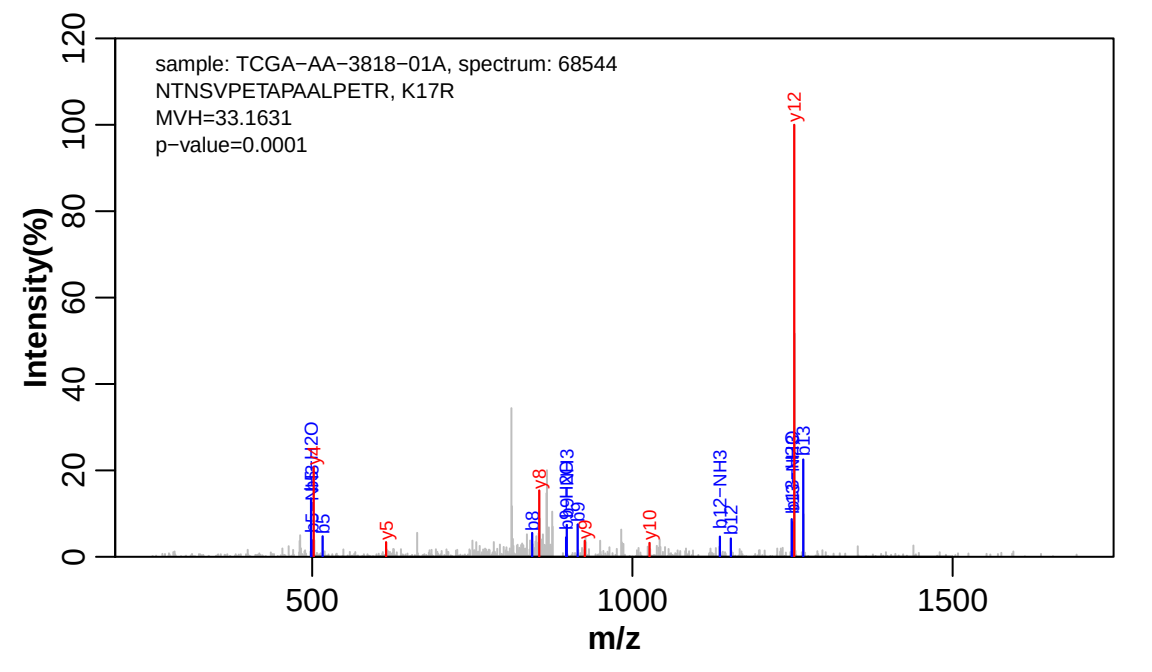

sample: TCGA−AA−3818−01A, spectrum: 13291
MAQWGNKPLC, V9I
MVH=44.1134
p−value=0.0002
Intensity(%)
m/z
y1
b3
y3
b4
b5
b5−NH3
y5
b6
b6−NH3
b7
b7−NH3
y7
y7−NH3
y8−NH3
y8
b9
b9−NH3

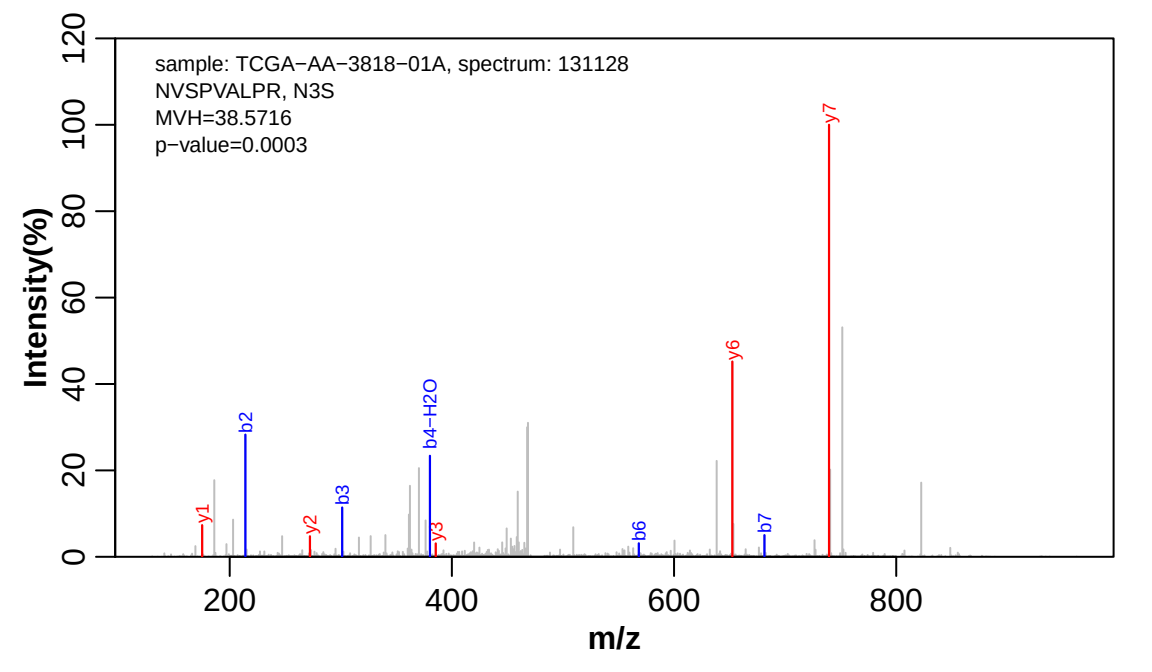

sample: TCGA−AA−3818−01A, spectrum: 70756
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=81.4689
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6++
y8++−b4
y8++
y9++
y15+++
b3++−H2O
b10+++−H2O
y11++
y4
b11+++
y9++−H2O
b12++
y8++−H2O
y6++−NH3
y6++−H2O
y13+++−H2O
y6++−NH3
y6++H2O
b8
b18+++−H2O
b18+++

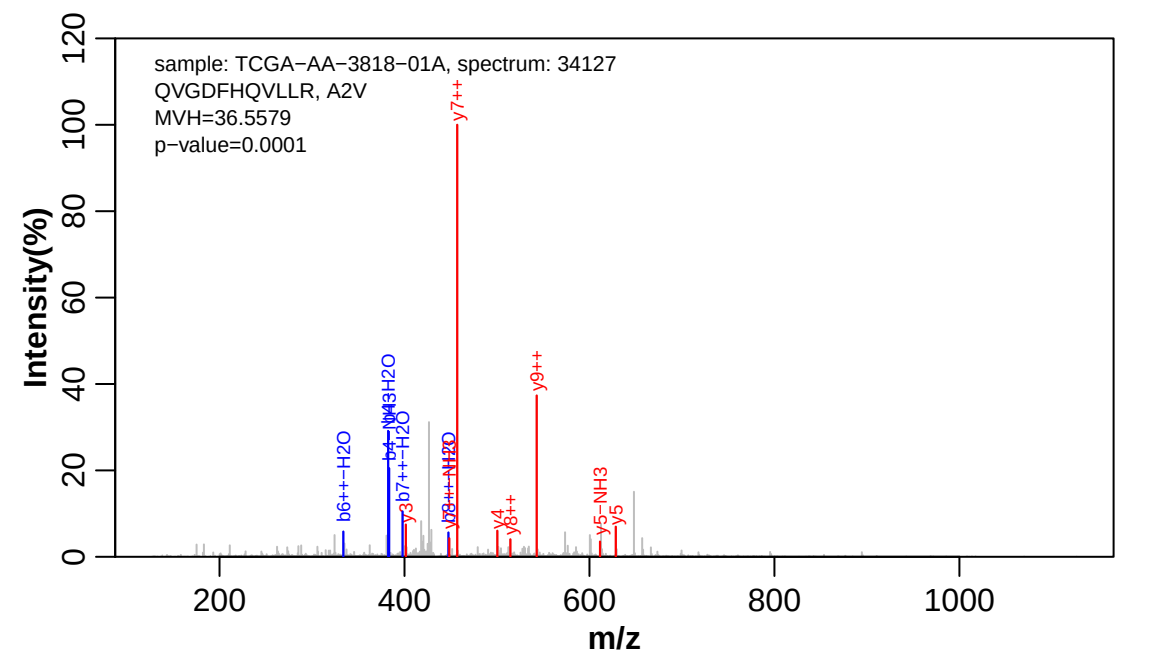

sample: TCGA−AA−3818−01A, spectrum: 14919
MQYAPNTQVELLPQGR, H16R
MVH=58.9518
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4−NH3
b4
y5
y6
y7
y8
b9−NH3
b9
y9
b10−NH3
b10
b11
y12
b12
b12−NH3
y13
y14
b14

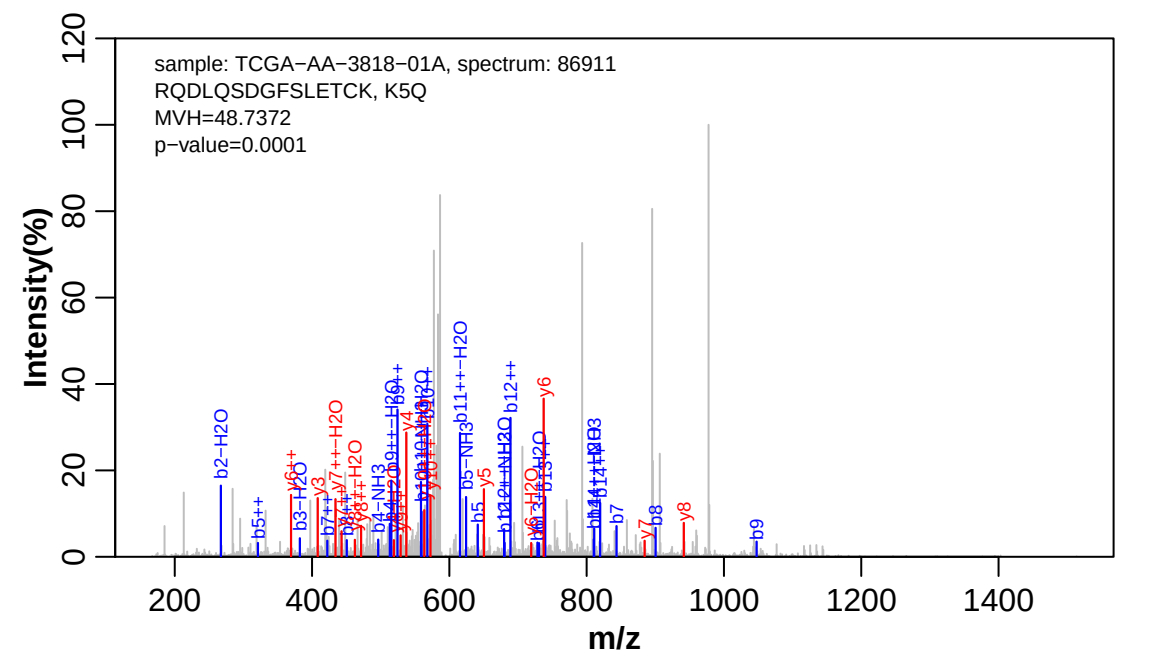

sample: TCGA−AA−3818−01A, spectrum: 32867
MVAVGLCR, H8R
MVH=44.4169
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

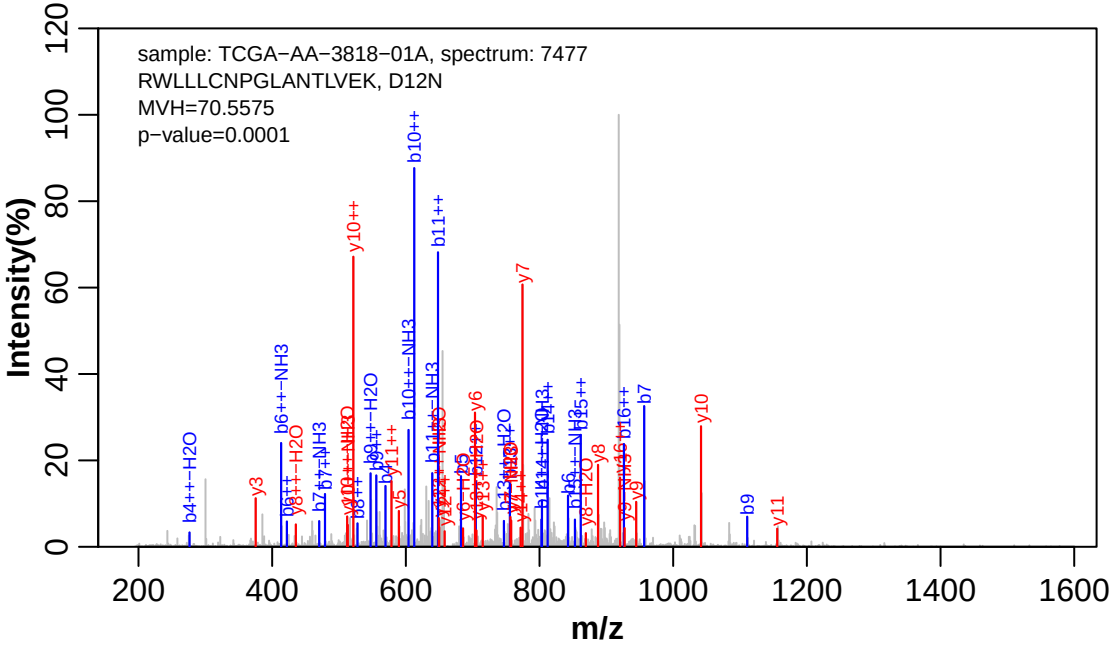

sample: TCGA−AA−3818−01A, spectrum: 126041
NPSLLPLLLEAR, Q2P
MVH=44.3385
p−value=0.0001
Intensity(%)
m/z
y7
y8
y9
b5
b3−H2O
b4
b6
b9
y4
0
20
40
60
80
100
120
200
400
600
800
1000
1200

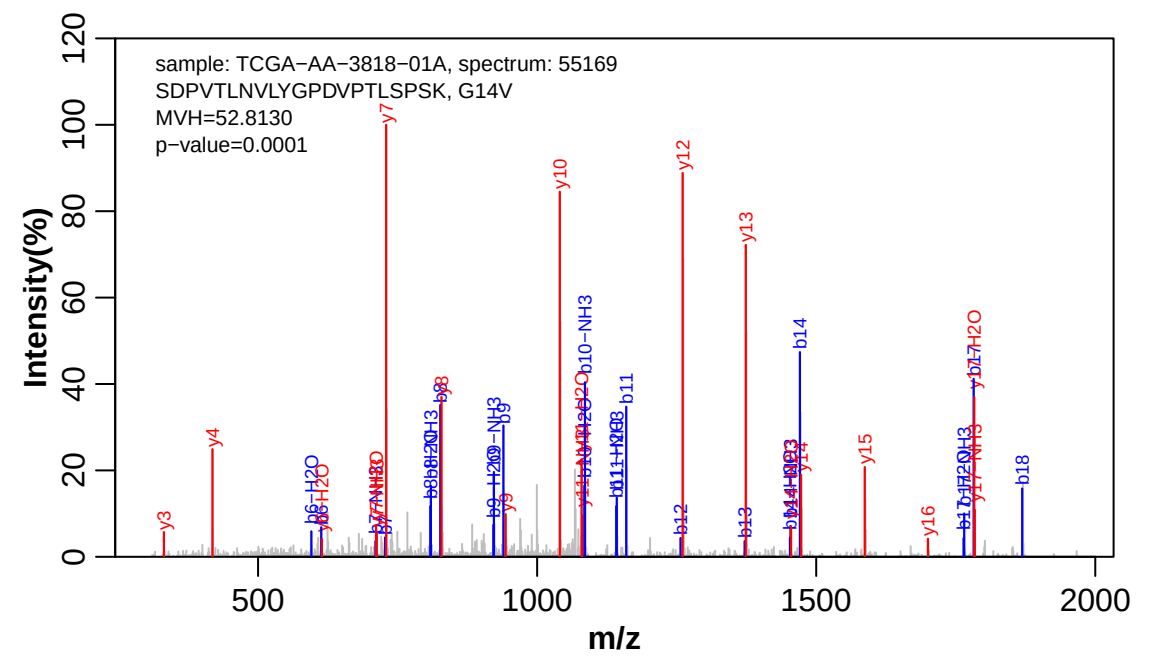

sample: TCGA−AA−3818−01A, spectrum: 68544
NTNSVPETAPAALPETR, K17R
MVH=33.1631
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y10
b8
b5
b12−NH3
b12
b13

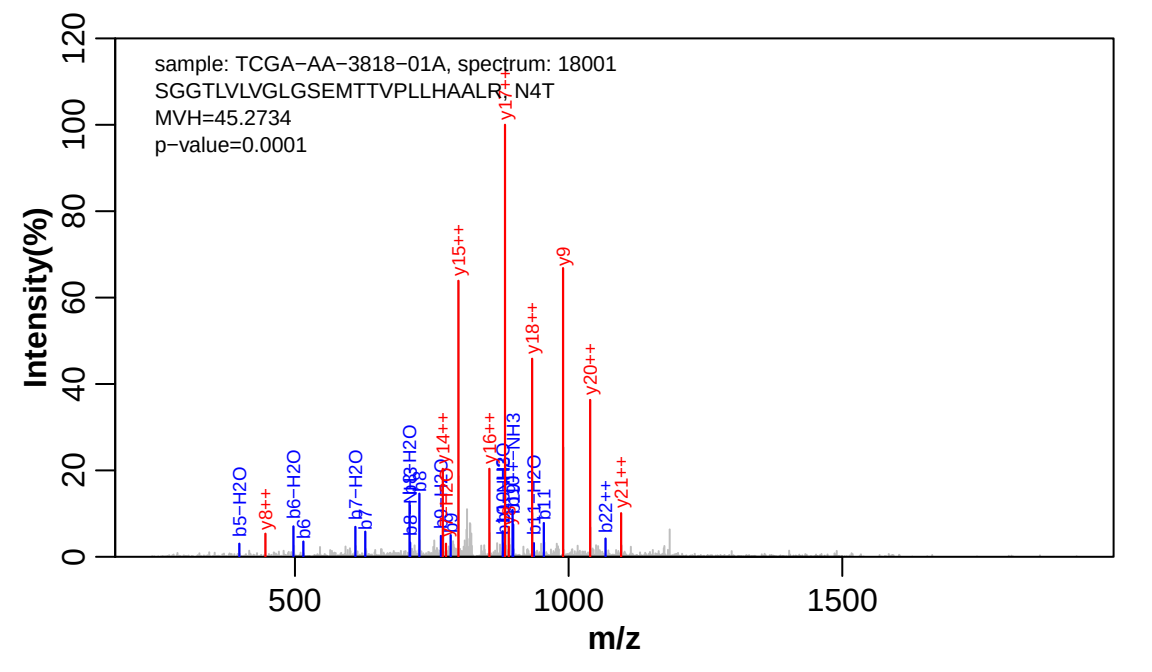

sample: TCGA−AA−3818−01A, spectrum: 131128
NVSPVALPR, N3S
MVH=38.5716
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
b4−H2O
y3
b6
y6
b7
y7

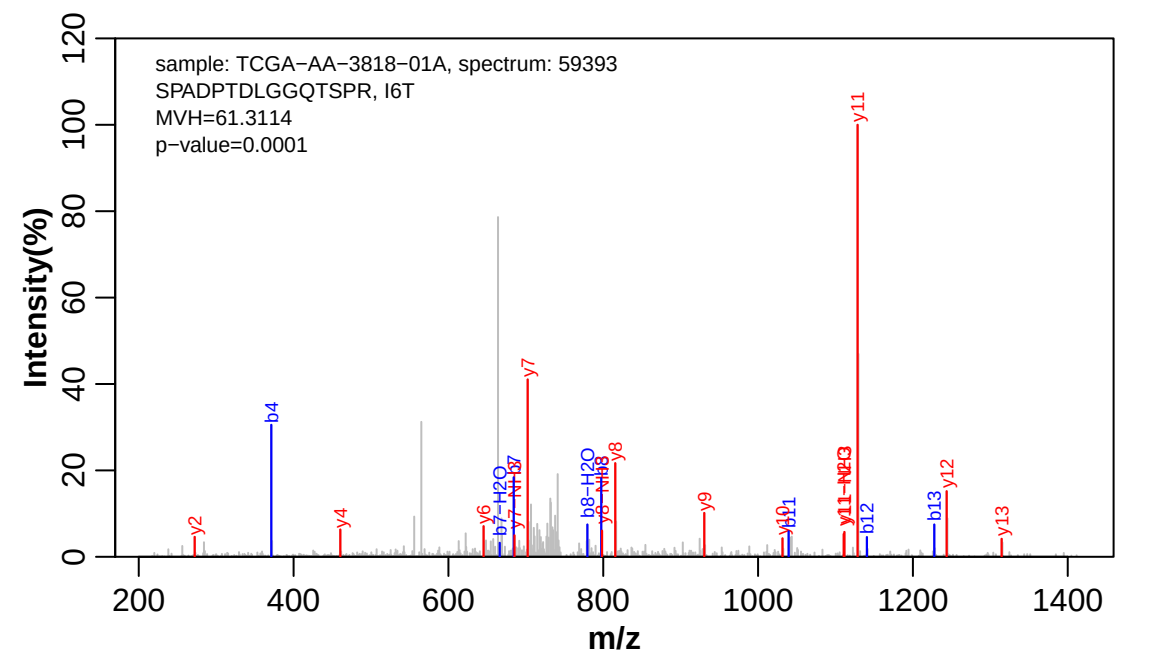

sample: TCGA−AA−3818−01A, spectrum: 34127
QVGDFHQVLLR, A2V
MVH=36.5579
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y7++
y9++
b6++−H2O
b4−NH3
b4−H2O
y3
b7++−H2O
b8++−NH3
b8++−H2O
y4
y8++
y5−NH3
y5

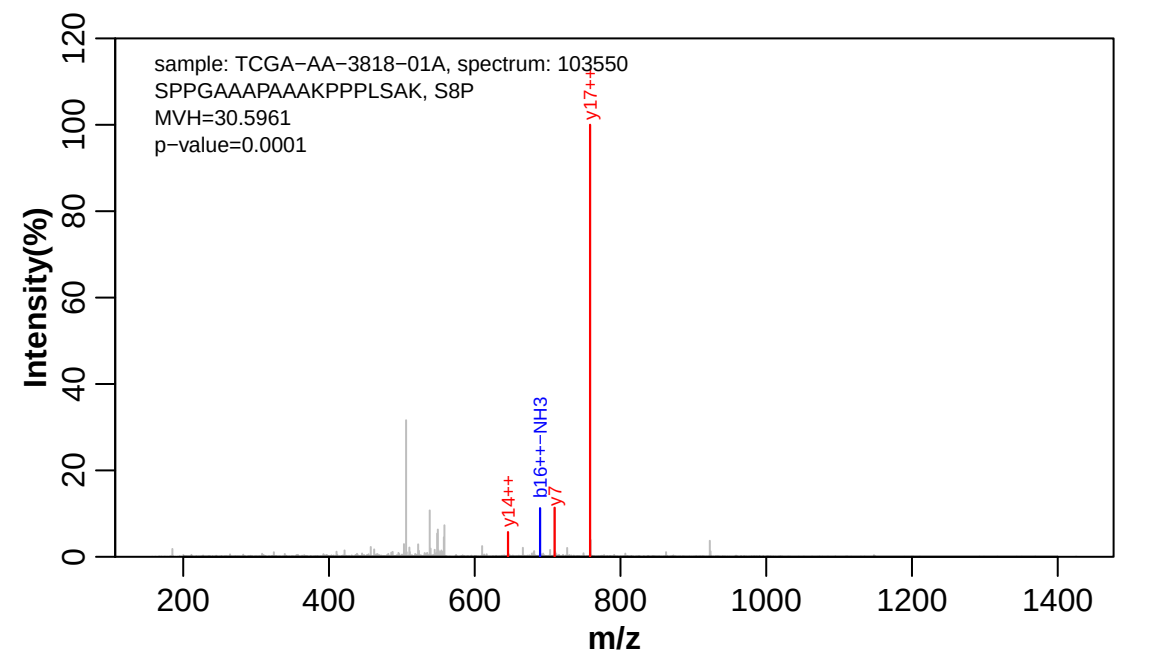

sample: TCGA−AA−3818−01A, spectrum: 86911
RQDLQSDGFSLETCK, K5Q
MVH=48.7372
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b5++
b3−H2O
y6++
y3
b7++
y7++−H2O
y8++−H2O
b4−NH3
b11++−H2O
b5−NH3
y5
b5
b12++
y6
b7
y7
b8
y8
b9

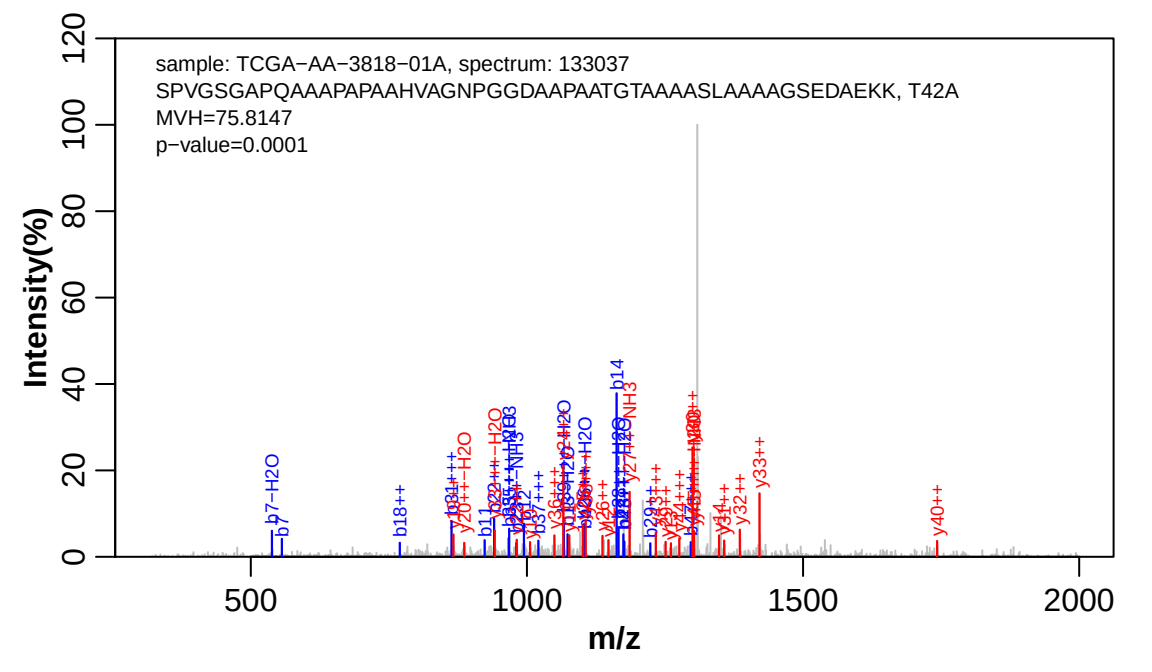

sample: TCGA−AA−3818−01A, spectrum: 7477
RWLLLCNPGLANTLVEK, D12N
MVH=70.5575
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4++−H2O
y3
b6++−NH3
b6++−H2O
y8−H2O
b7++−NH3
b7++
y10++
b8++−H2O
b9++−H2O
y11++
y5
b10++−NH3
b10++
b11++
y7
y6
b13++−H2O
y8
b15++
b16++
b7
y10
b9
y11

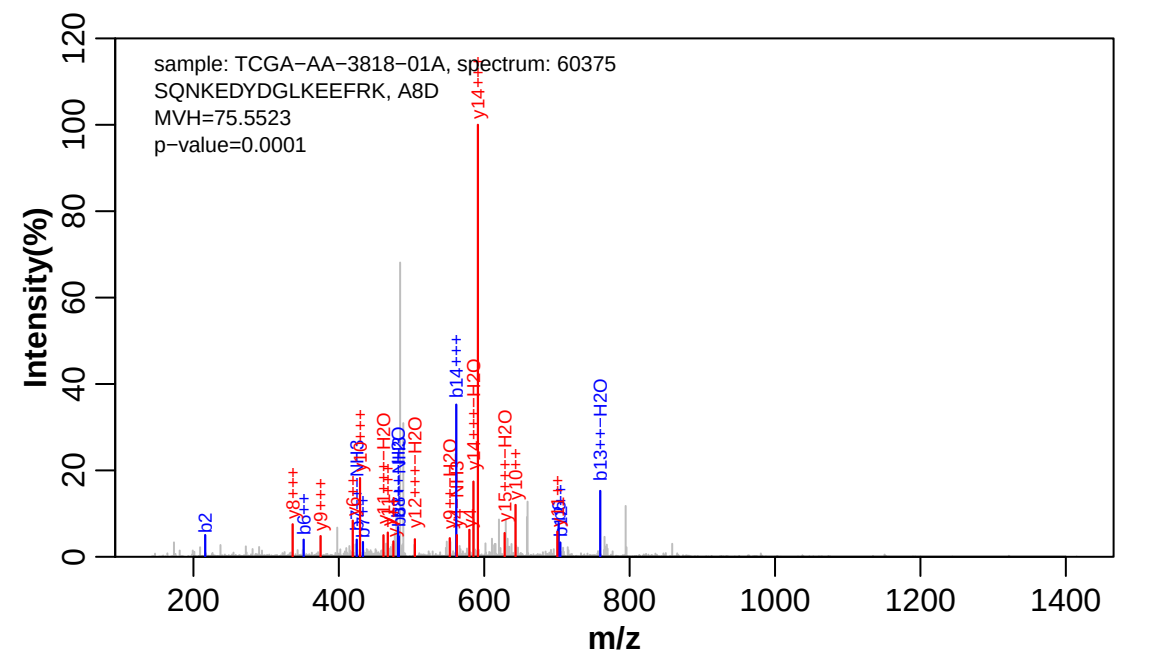

sample: TCGA−AA−3818−01A, spectrum: 55169
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=52.8130
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y7
y10
y12
y13
y14
y15
y16
y17−H2O
y17−NH3
b10−NH3
b11
b12
b13
b14
b18

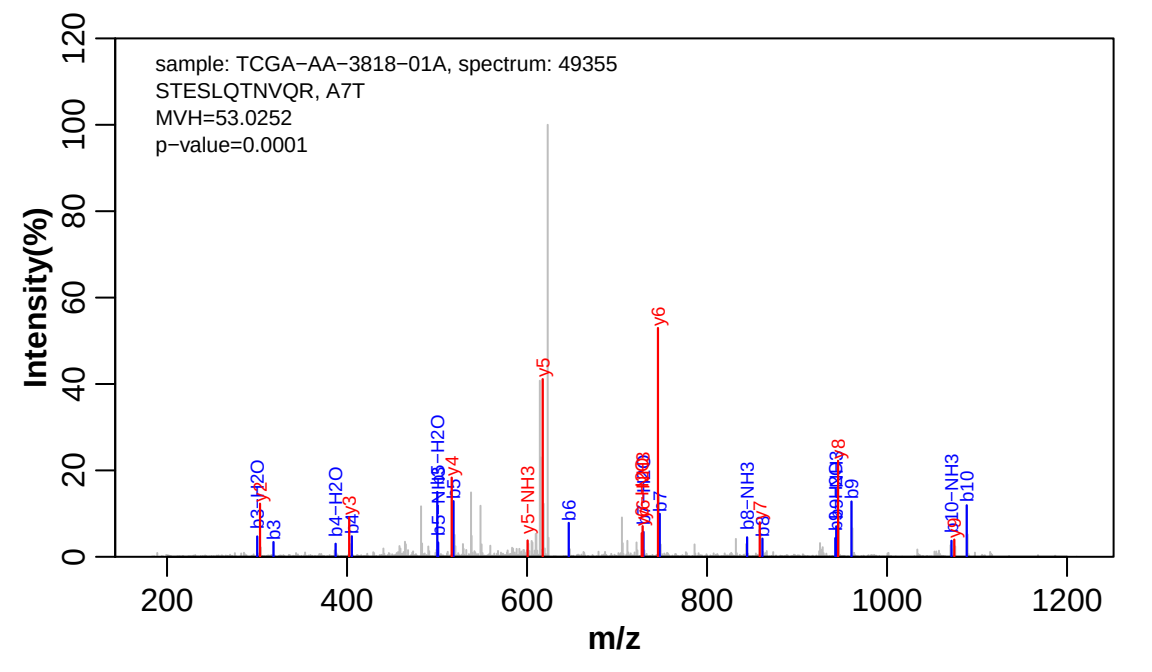

sample: TCGA−AA−3818−01A, spectrum: 18001
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=45.2734
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y16++
y14++
y21++
b22++
b5−H2O
y8++
b6−H2O
b6
b7−H2O
b7
b8
b11−H2O
b11

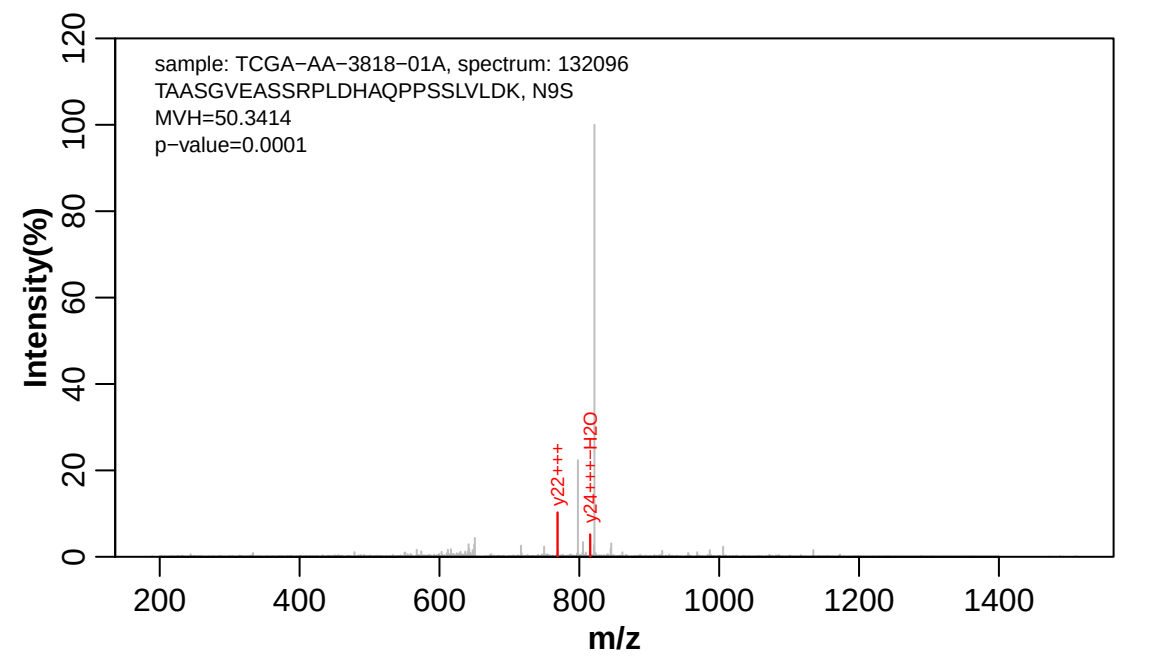

sample: TCGA−AA−3818−01A, spectrum: 59393
SPADPTDLGGQTSPR, I6T
MVH=61.3114
p−value=0.0001
Intensity(%)
m/z
y11
y7
b4
y8
y12
b13
y13
y9
b12
y2
y4
y6
b7−H2O
b8−H2O
b8−NH3
y10
b11
y11−NH3
y11−H2O

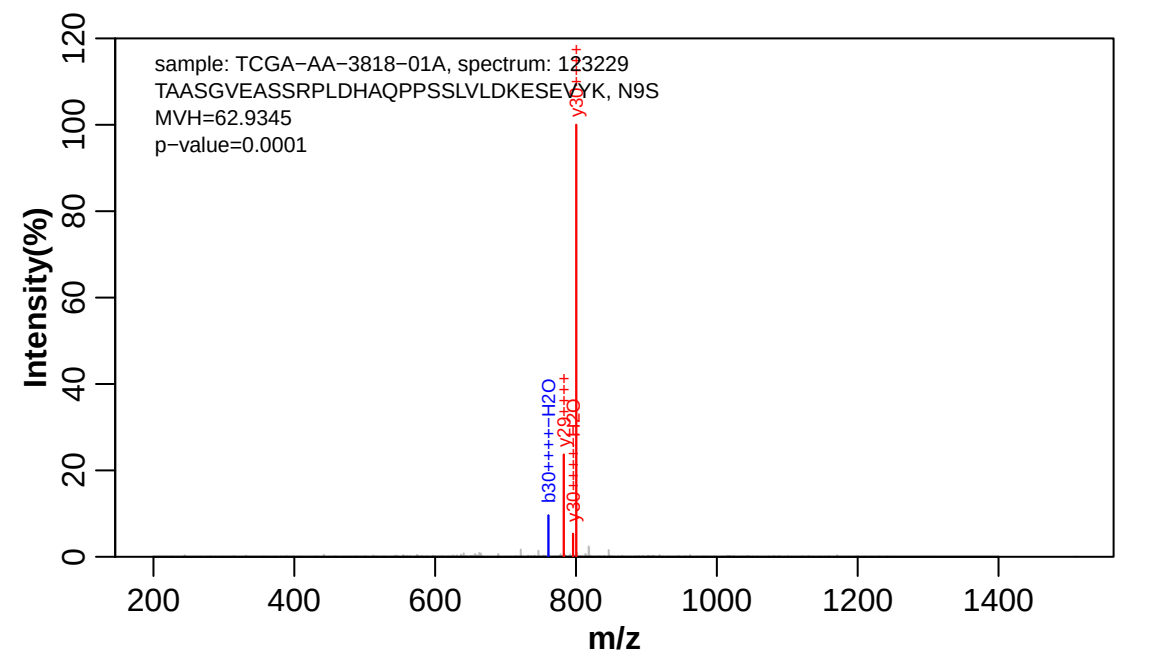

sample: TCGA−AA−3818−01A, spectrum: 103550
SPPGAAAPAAAKPPPLSAK, S8P
MVH=30.5961
p−value=0.0001
y17++
b16++−NH3
y7
y14++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

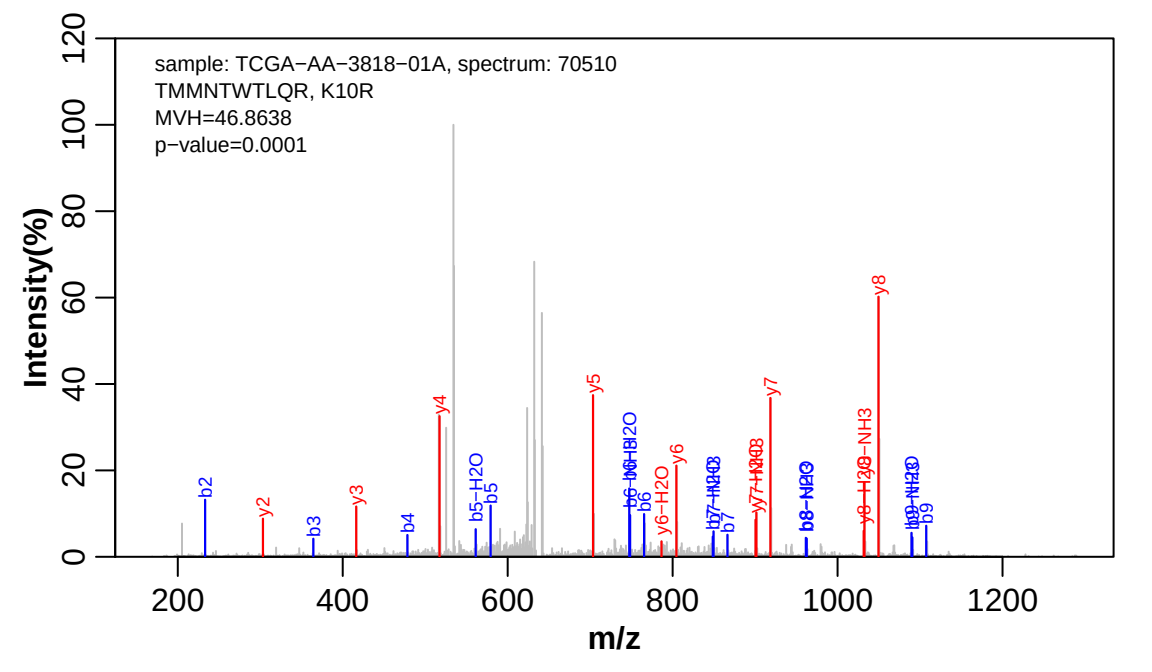

sample: TCGA−AA−3818−01A, spectrum: 133037
SPVGSGAPQAAAPAPAAHVAGNPGGDAAPAATGTAAAASLAAAAGSEDAEKK, T42A
MVH=75.8147
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b7−H2O
b7
b18++
y20++−H2O
b11
b22++−H2O
b14
b14−NH3
y33++
y40++

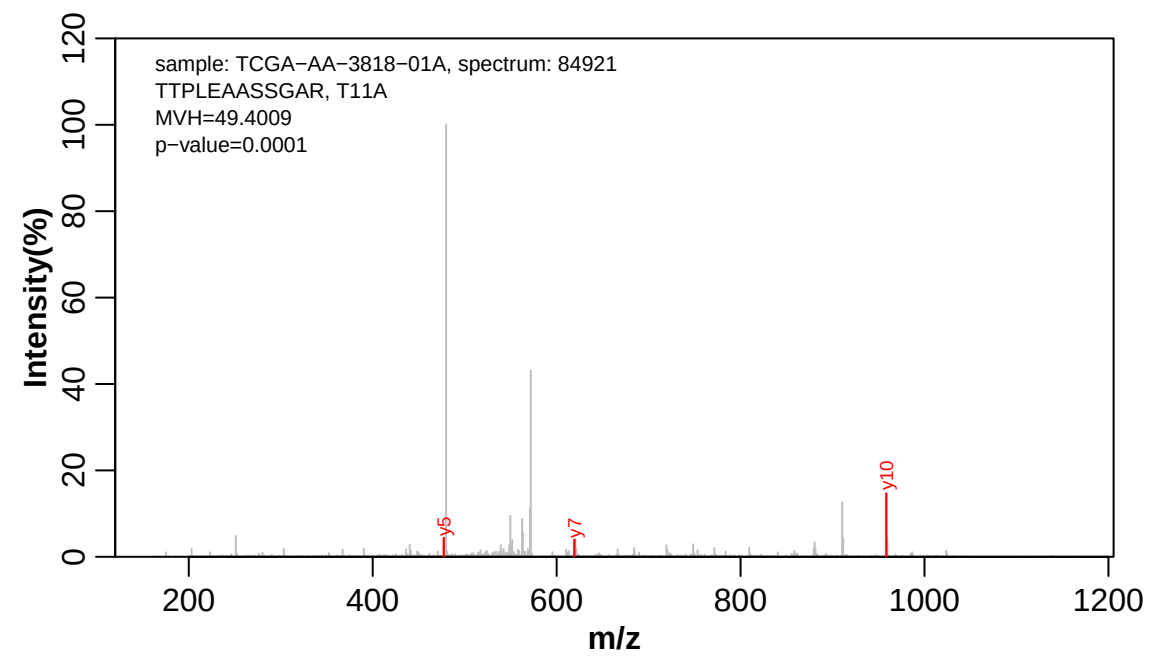

sample: TCGA−AA−3818−01A, spectrum: 60375
SQNKEDYDGLKEEFRK, A8D
MVH=75.5523
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y8+++
b6++
y9+++
b7++
y10+++
y11+++−H2O
y11+++−NH3
y12+++−H2O
b14+++
y8++−H2O
y14+++−H2O
y14++
y15++−H2O
y10++
b13++
b13++−H2O

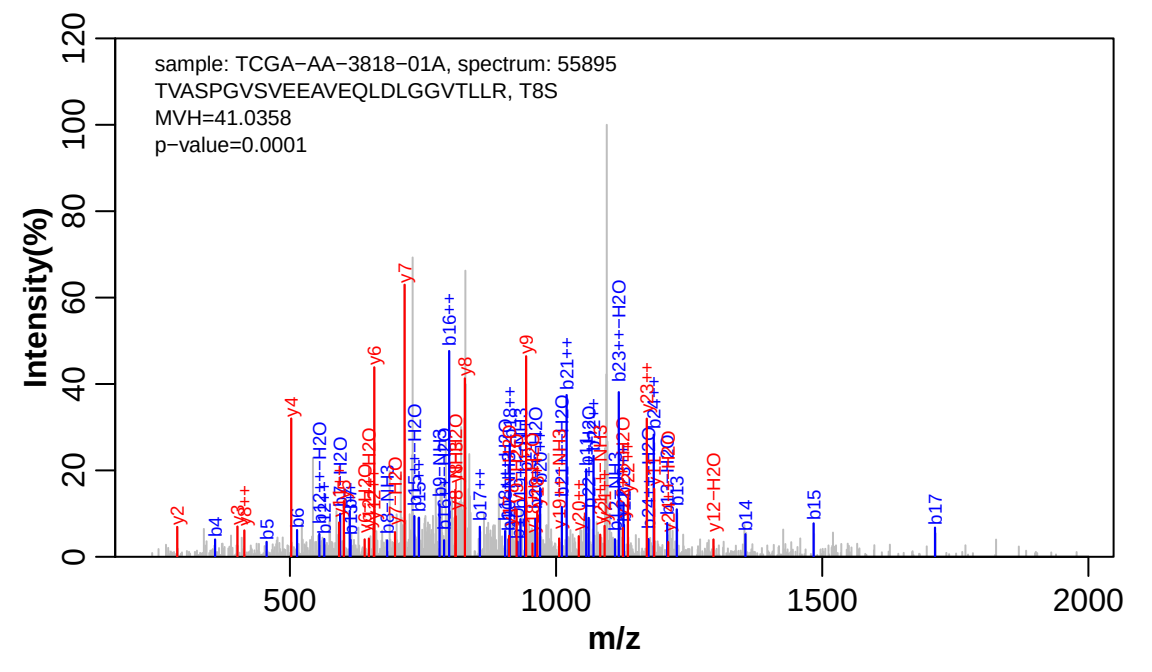

sample: TCGA−AA−3818−01A, spectrum: 49355
STESLQTNVQR, A7T
MVH=53.0252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
b4−H2O
b4
y3
b5−NH3
b5−H2O
y4
y5−NH3
y5
b6
y6
b7
b8−NH3
b8
y7
b9
b10−NH3
b10

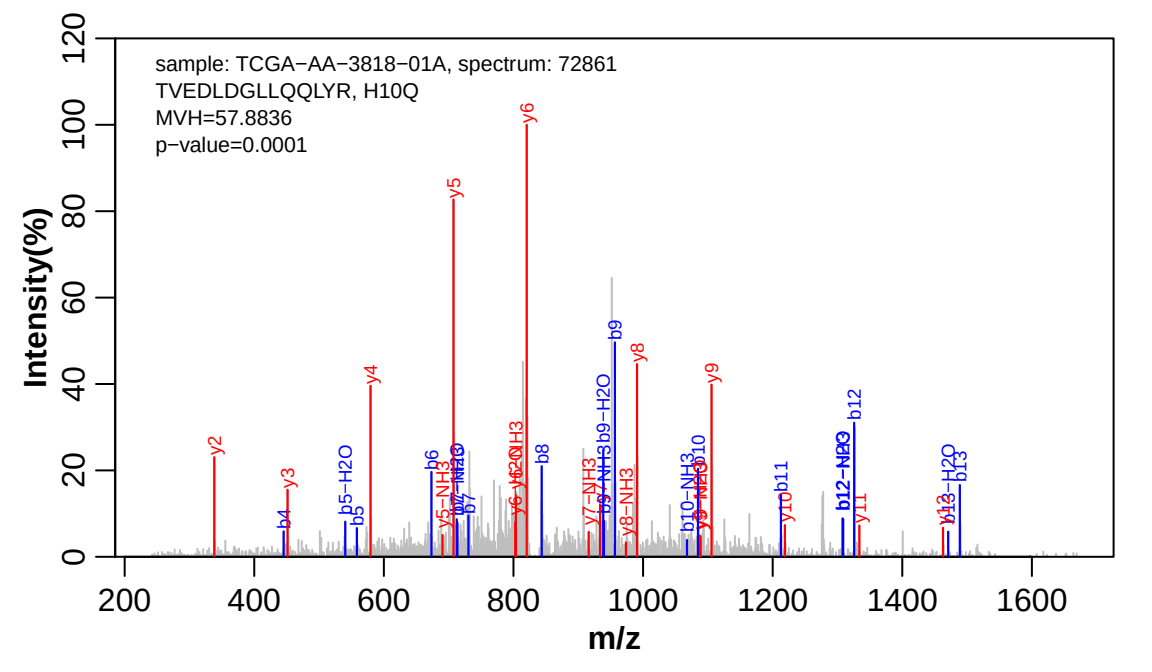

sample: TCGA−AA−3818−01A, spectrum: 132096
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=50.3414
p−value=0.0001
y22+++
y24+++−H2O
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

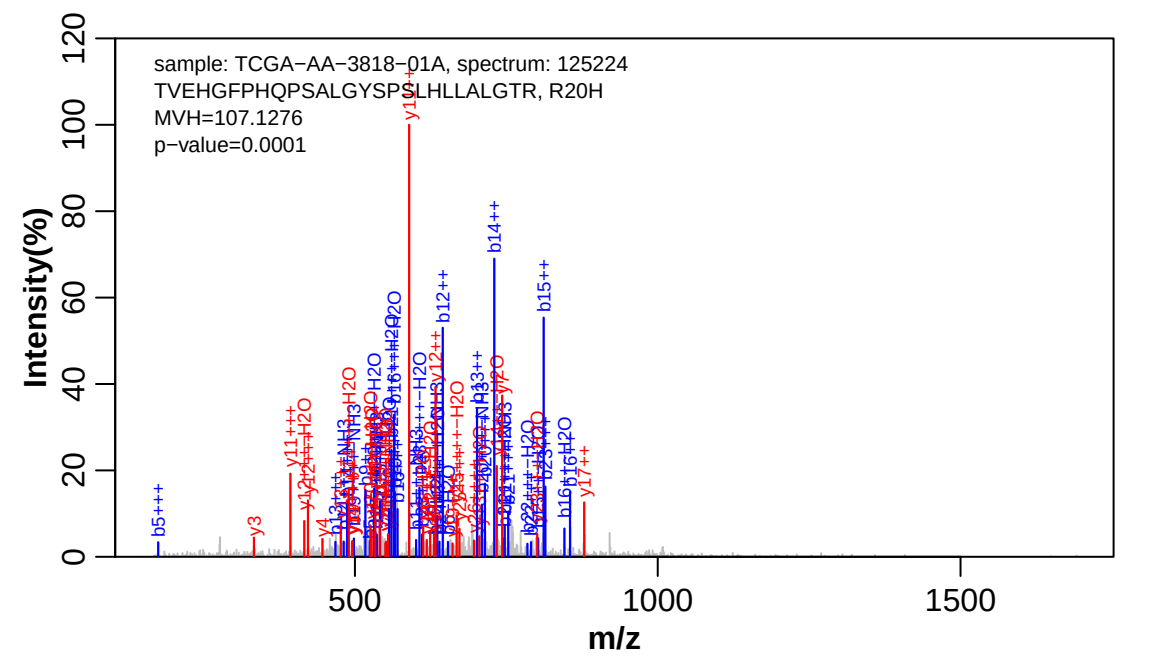

sample: TCGA−AA−3818−01A, spectrum: 123229
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=62.9345
p−value=0.0001
y30++++
b30++++−H2O
y30++++−H2O
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

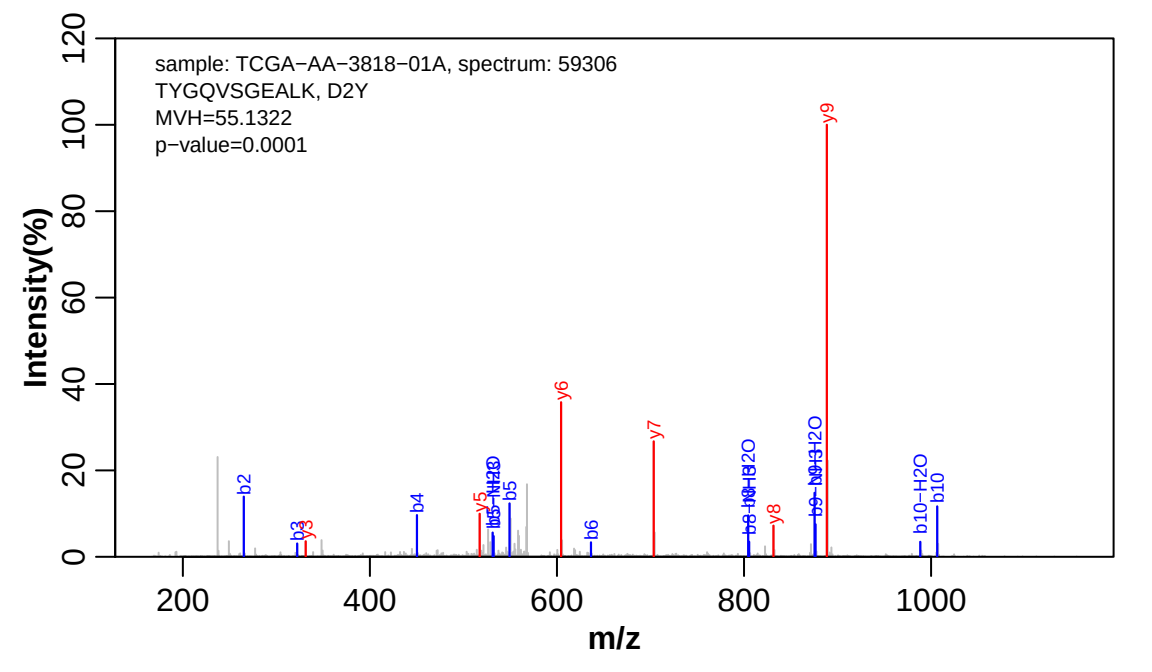

sample: TCGA−AA−3818−01A, spectrum: 70510
TMMNTWTLQR, K10R
MVH=46.8638
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6−H2O
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7−H2O
y7
b8−NH3
b8−H2O
y8−H2O
y8−NH3
y8
b9−NH3
b9−H2O
b9

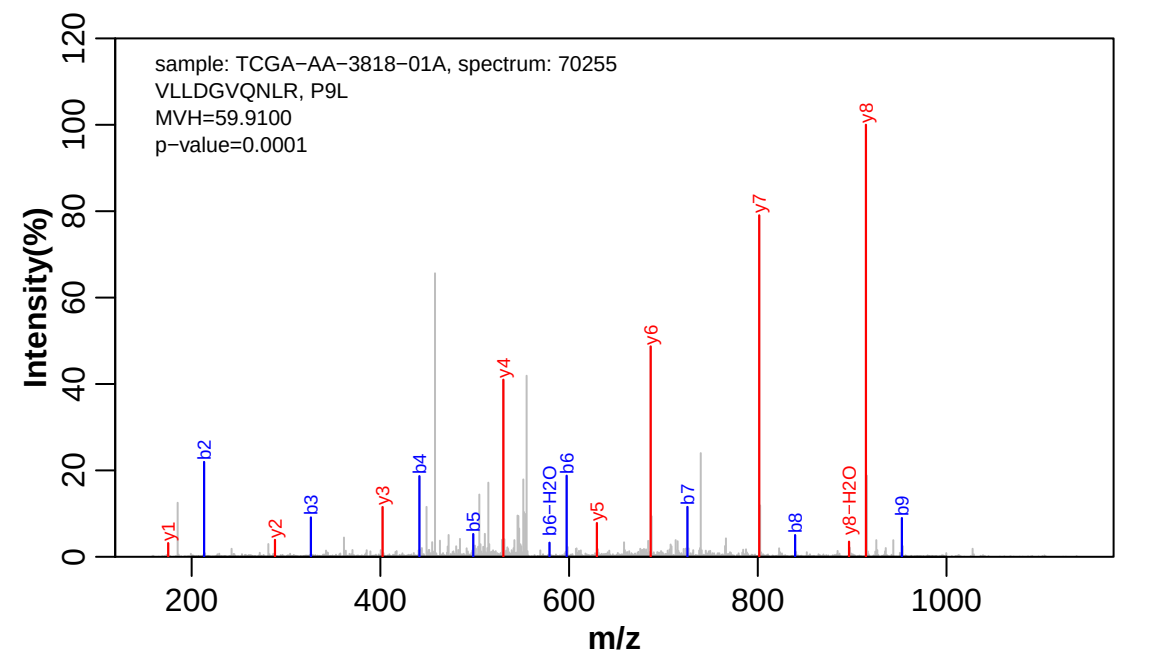

sample: TCGA−AA−3818−01A, spectrum: 84921
TTPLEAASSGAR, T11A
MVH=49.4009
p−value=0.0001
y5
y7
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

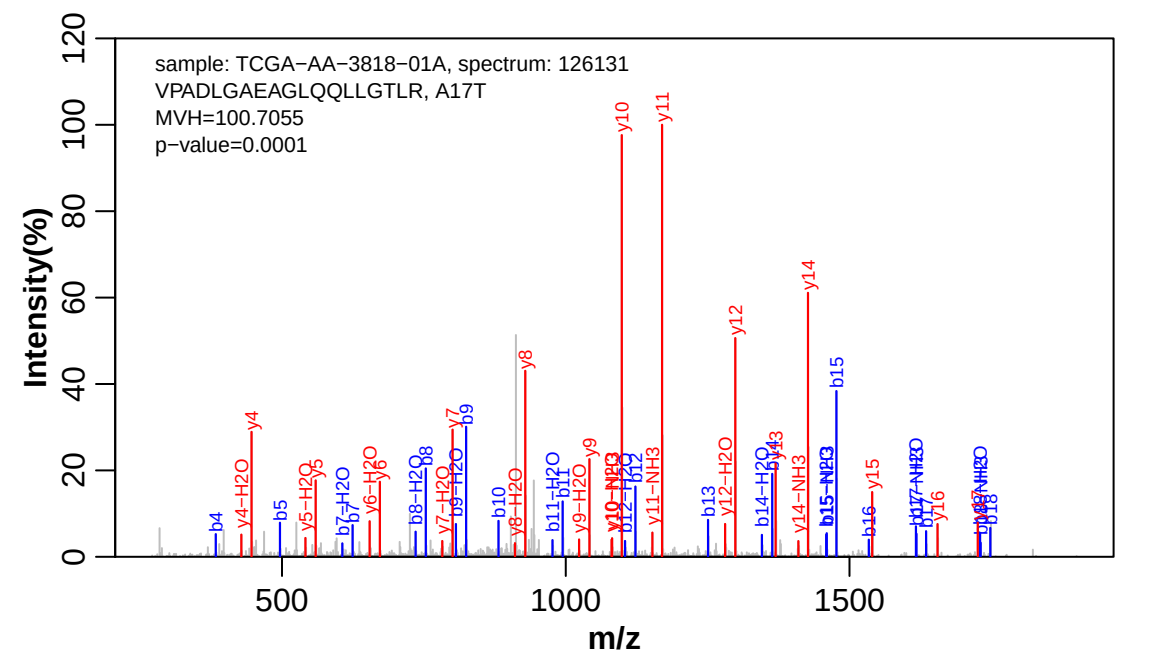

sample: TCGA−AA−3818−01A, spectrum: 55895
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=41.0358
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
y3
y3++
b5
y4
b6
b12++−H2O
b12−H2O
y6
y6−H2O
y7−NH3
y7−H2O
y7
b15++−H2O
b16++
y8
b17++
y9
b21++
b23++−H2O
y12−H2O
b14
b15
b17

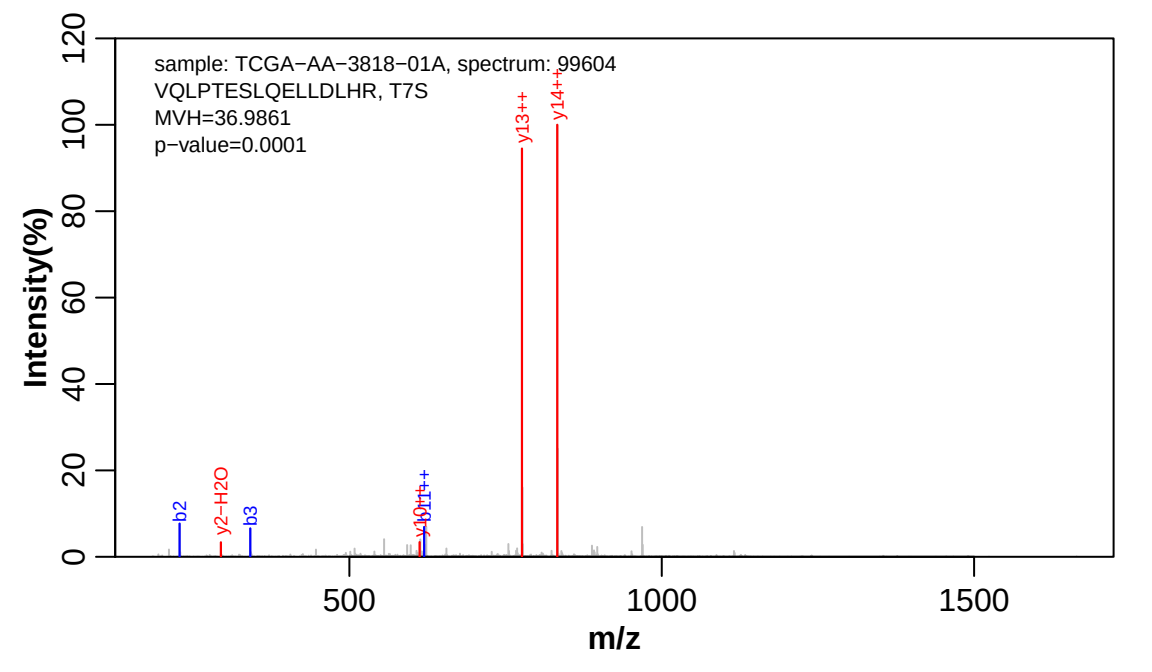

sample: TCGA−AA−3818−01A, spectrum: 72861
TVEDLDGLLQQLYR, H10Q
MVH=57.8836
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
y6
y8
y9
y10
y11
y12
b4
b5
b5−H2O
b6
b8
b9
b9−H2O
b12
b13
b13−H2O
y5−NH3
y7−NH3
y8−NH3
b10−NH3
b12−NH3

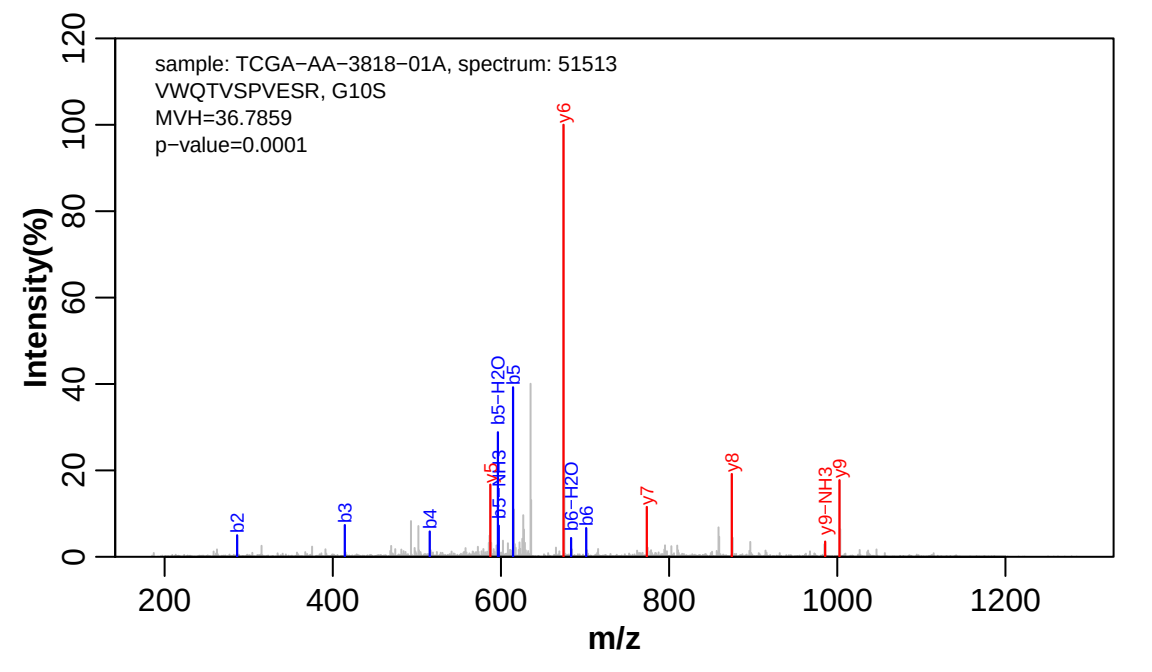

sample: TCGA−AA−3818−01A, spectrum: 125224
TVEHGFPHQPSALGYSPSLHLLALGTR, R20H
MVH=107.1276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10++
b14++
b15++
b12++
y11+++
y12+++−H2O
y3
b5+++
y17++
b16−H2O

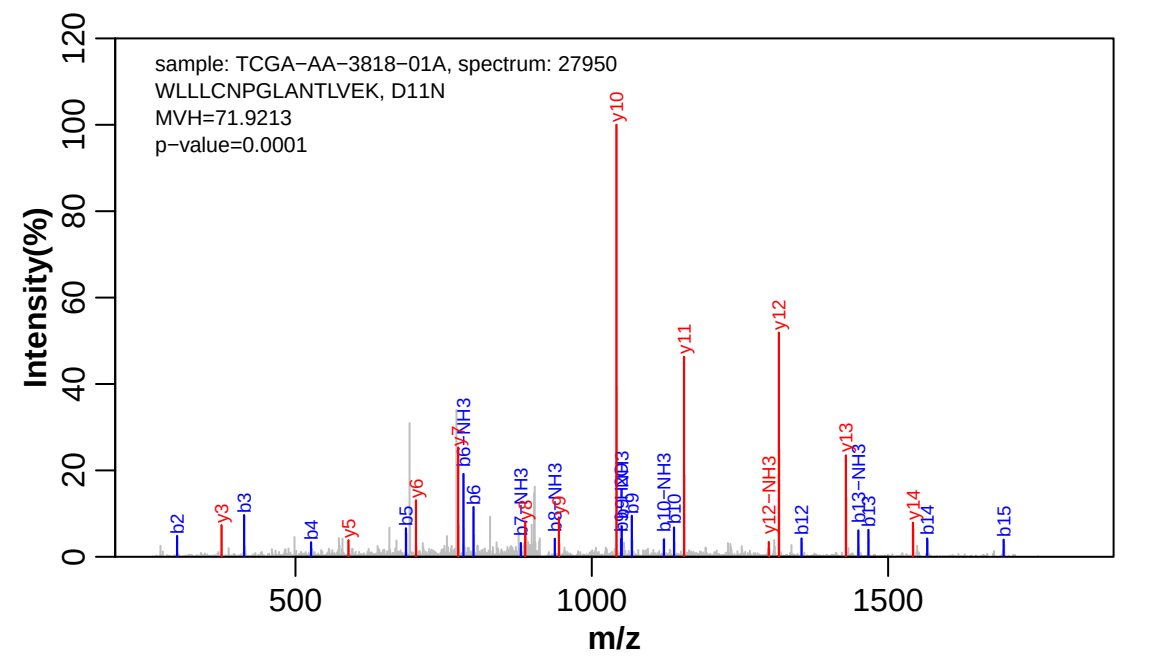

sample: TCGA−AA−3818−01A, spectrum: 59306
TYGQVSGEALK, D2Y
MVH=55.1322
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
y3
b4
y5
b5
y6
b6
y7
y8
y9
b10−H2O
b10

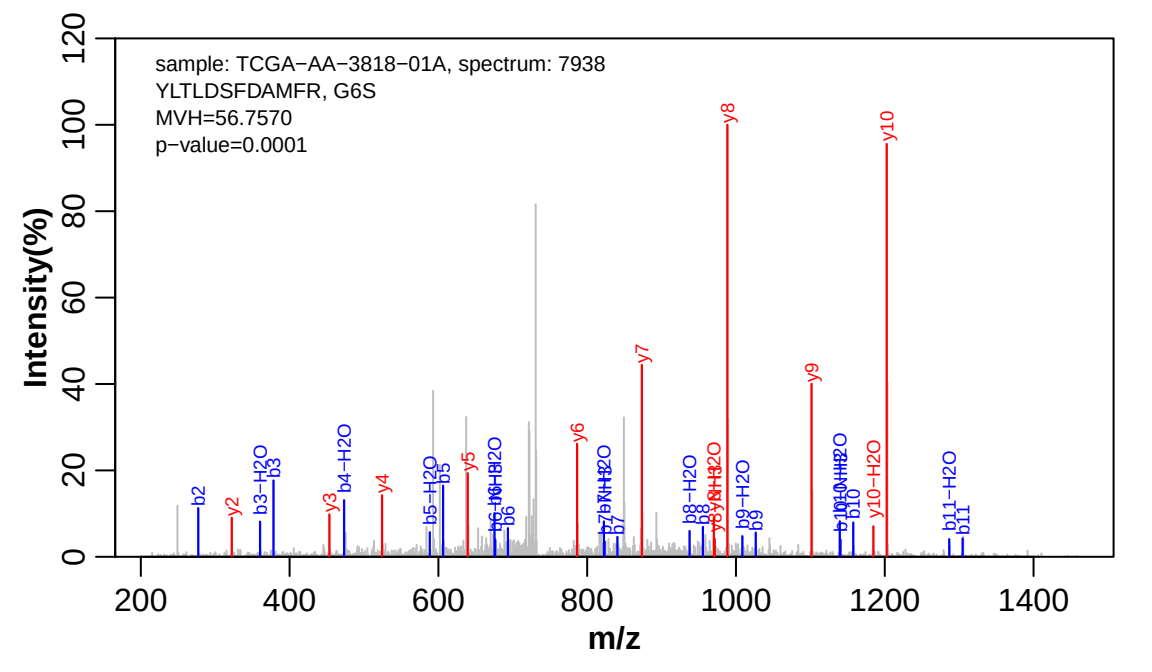

sample: TCGA−AA−3818−01A, spectrum: 70255
VLLDGVQNLR, P9L
MVH=59.9100
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8−H2O
y8
b9

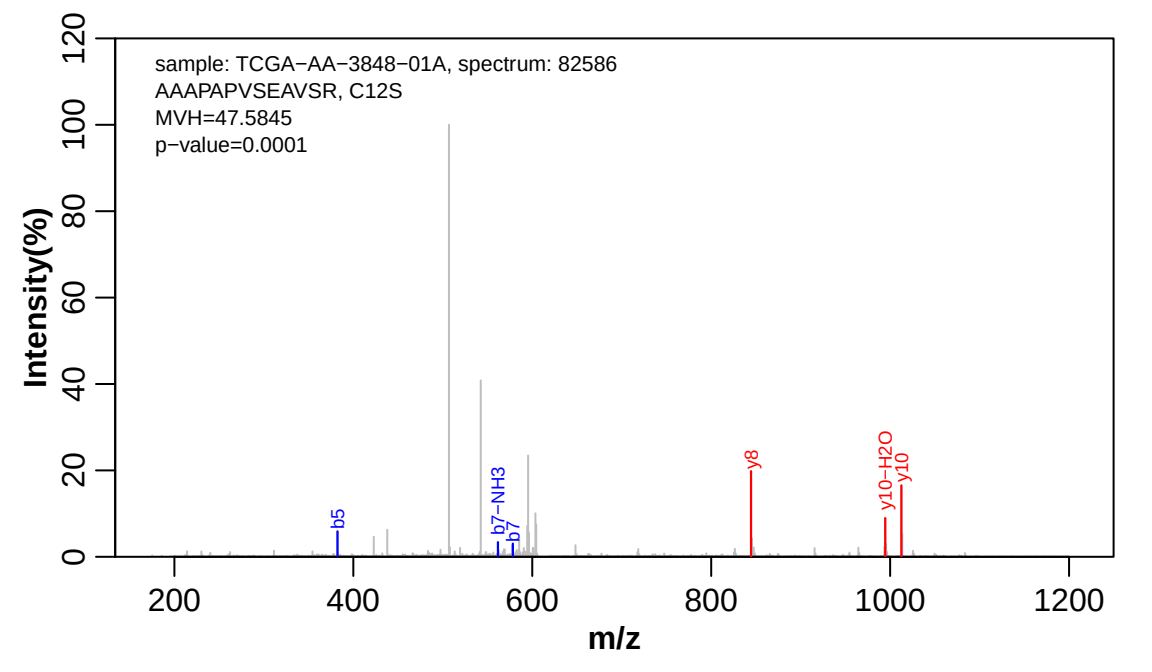

sample: TCGA−AA−3818−01A, spectrum: 126131
VPADLGAEAGLQQLLGTLR, A17T
MVH=100.7055
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y4−H2O
y4
b5
y5−H2O
y5
b7−H2O
b7
y6−H2O
y6
b8−H2O
b8
y7−H2O
y7
b9−H2O
b9
b10
y8−H2O
y8
b11−H2O
b11
y9−H2O
y9
y10−NH3
b12−H2O
b12
y11−NH3
y10
y11
b13
y12−H2O
y12
b14−H2O
b14
y13
y14−NH3
y14
b15−NH3
b15
b16
y15
b17−NH3
b17
y16
b18−NH3
b18

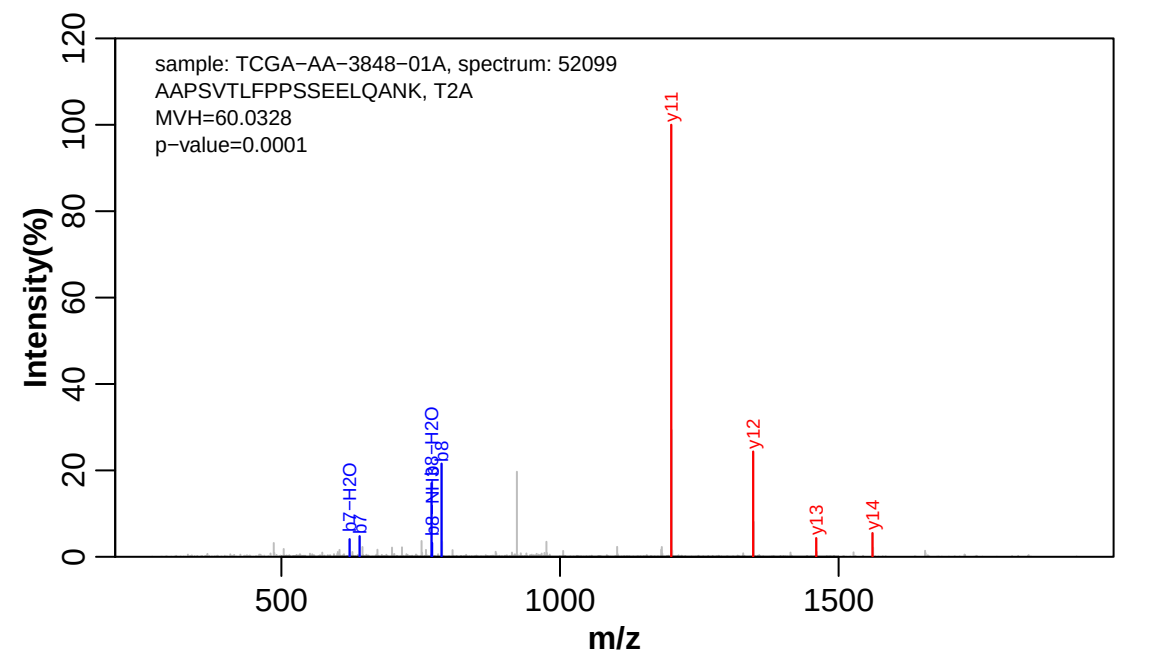

sample: TCGA−AA−3818−01A, spectrum: 99604
VQLPTESLQELLDLHR, T7S
MVH=36.9861
p−value=0.0001
y13++
y14++
b2
y2−H2O
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

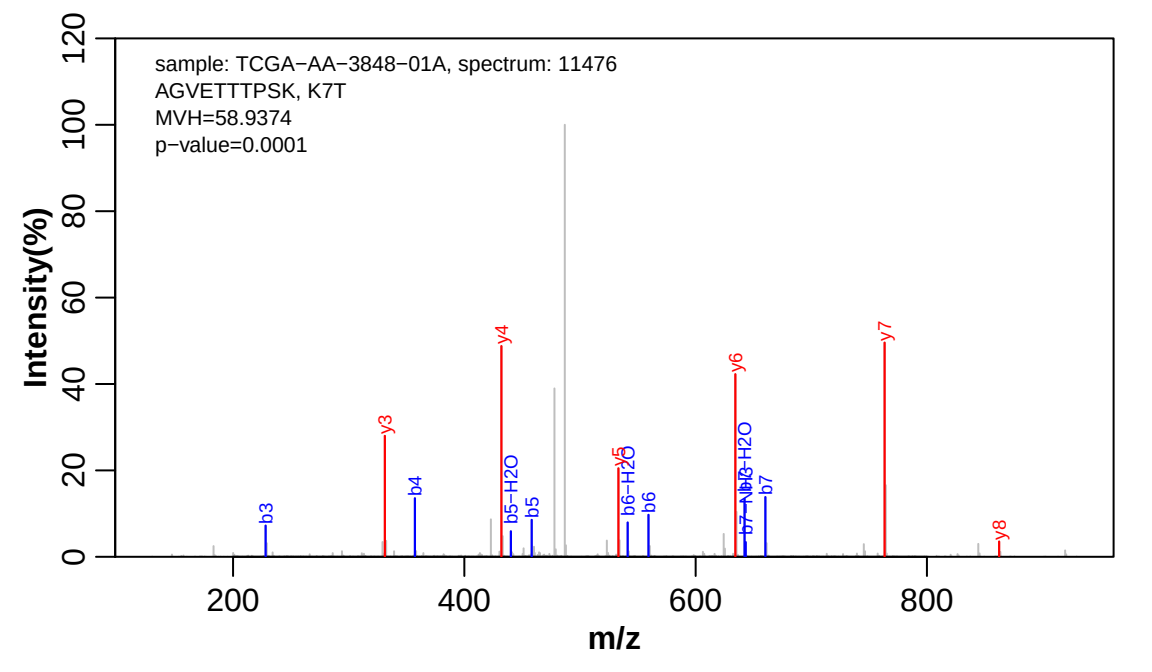

sample: TCGA−AA−3818−01A, spectrum: 51513
VWQTVSPVESR, G10S
MVH=36.7859
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b5−H2O
b5
y5
b5−NH3
b6−H2O
b6
y7
y8
y9−NH3
y9
b2
b3
b4

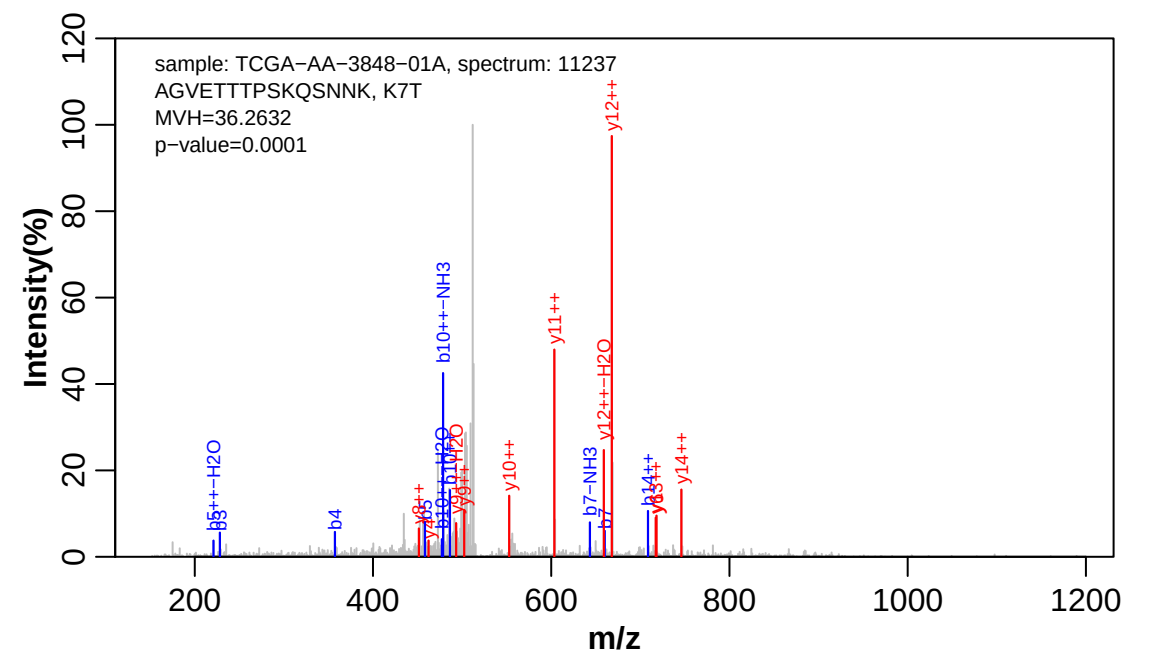

sample: TCGA−AA−3818−01A, spectrum: 27950
WLLLCNPGLANTLVEK, D11N
MVH=71.9213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
b4
y5
y6
b5
b6
y7
b6−NH3
b7
y8
b7−NH3
b8
b8−NH3
y10
b9
b10−NH3
b10
y11
y12
y12−NH3
b12
y13
b13
b13−NH3
y14
b14
b15

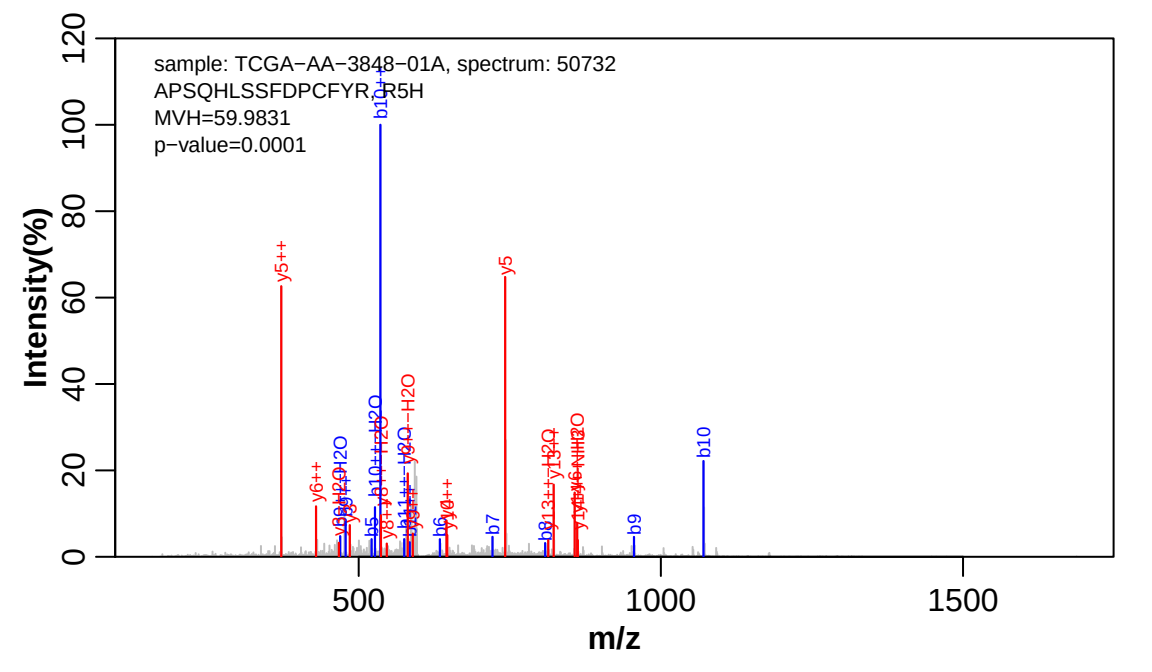

sample: TCGA−AA−3818−01A, spectrum: 7938
YLTLDSFDAMFR, G6S
MVH=56.7570
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3−H2O
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10−H2O
b10
y10
y10−H2O
b11−H2O
b11

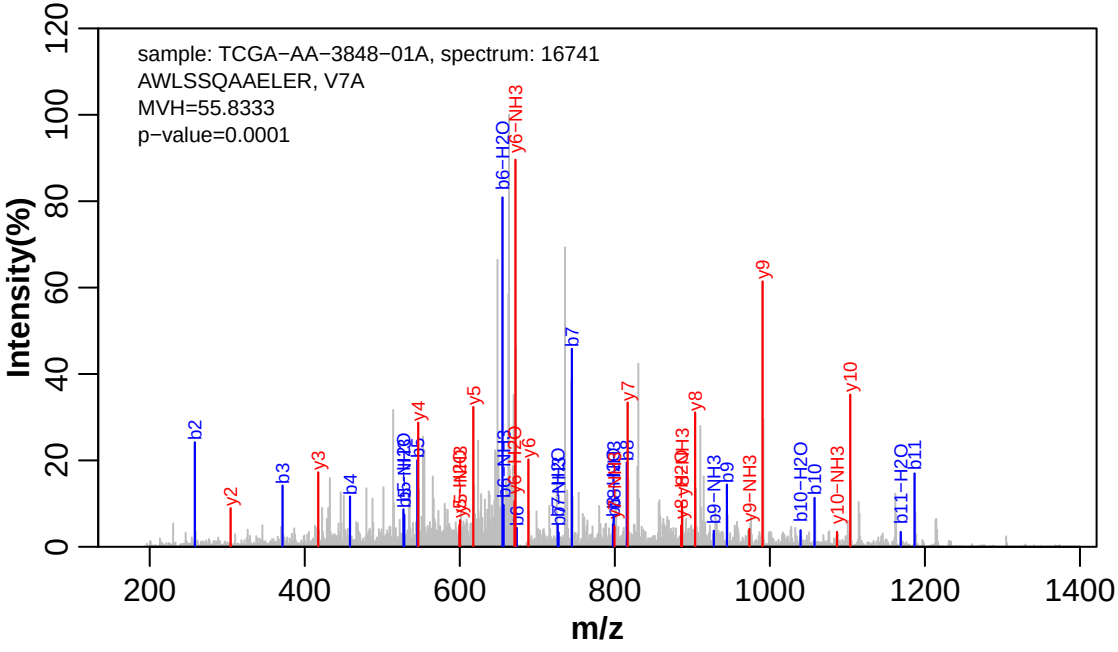

sample: TCGA−AA−3848−01A, spectrum: 82586
AAAPAPVSEAVSR, C12S
MVH=47.5845
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7−NH3
b7
y8
y10−H2O
y10

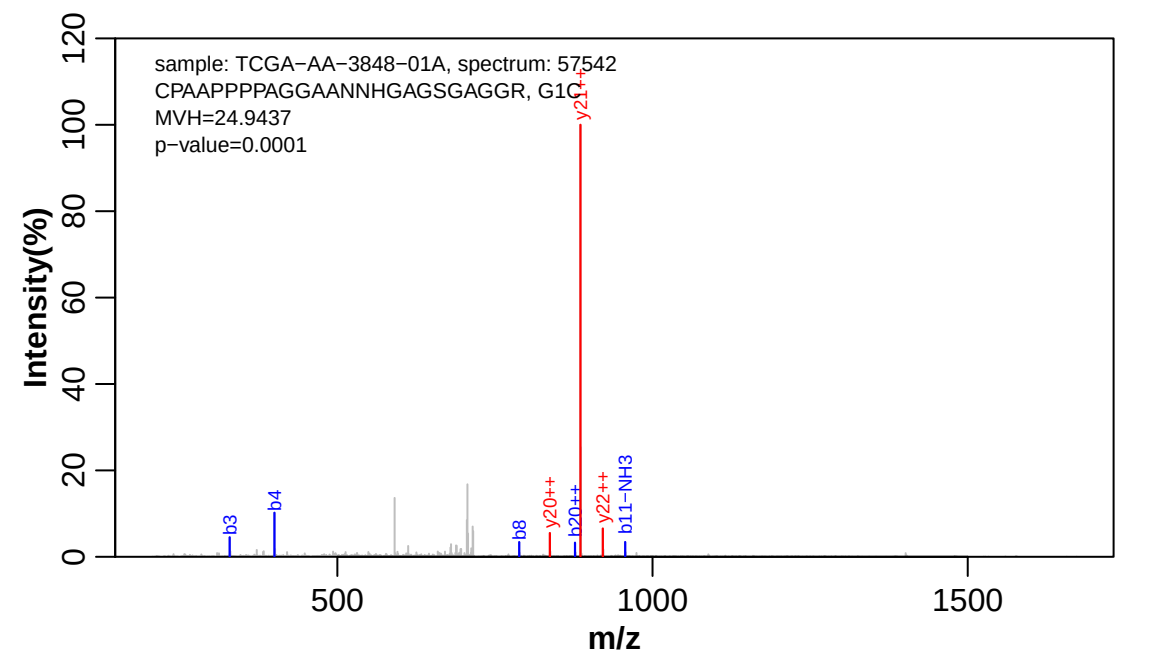

sample: TCGA−AA−3848−01A, spectrum: 52099
AAPSVTLFPPSSEELQANK, T2A
MVH=60.0328
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

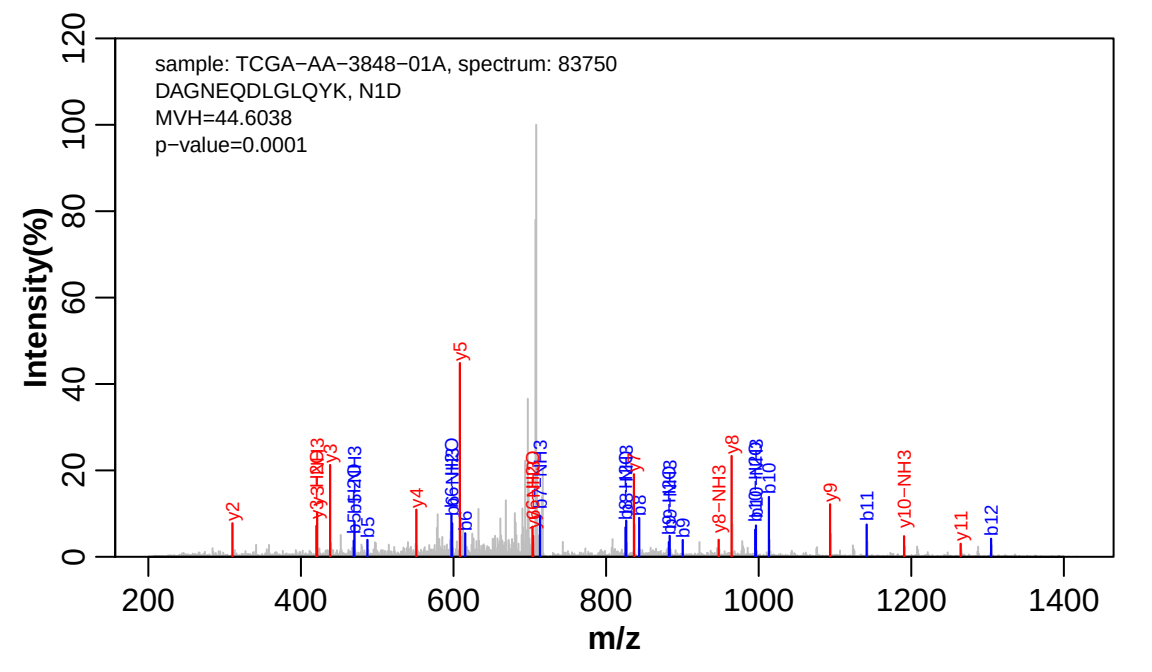

sample: TCGA−AA−3848−01A, spectrum: 11476
AGVETTTPSK, K7T
MVH=58.9374
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7
y8

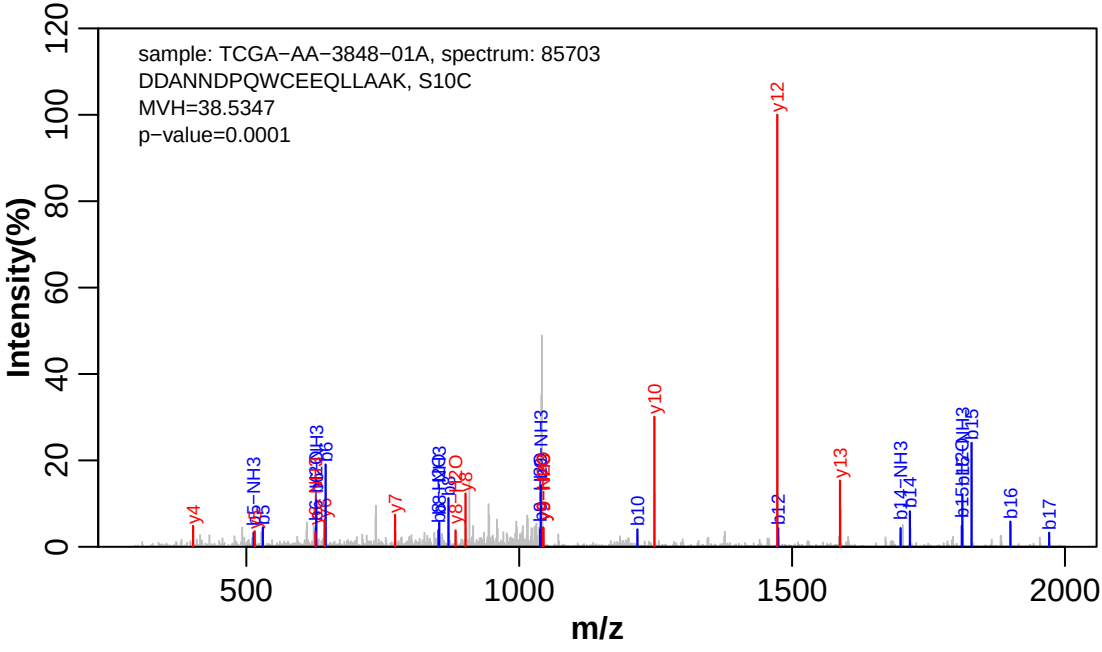

sample: TCGA−AA−3848−01A, spectrum: 11237
AGVETTTPSKQSNNK, K7T
MVH=36.2632
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y11++
b10++−NH3
y12++−H2O
y10++
y14++
b7−NH3
b7
b5++−H2O
b5
b4
y8++
y7++
y6++
y13++

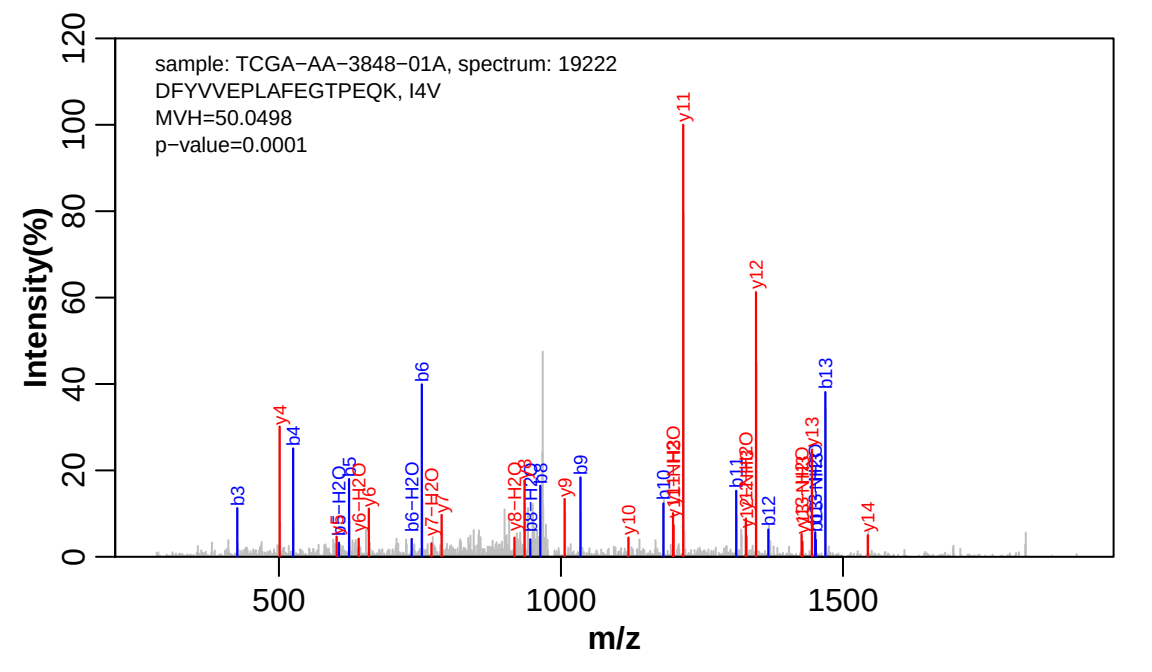

sample: TCGA−AA−3848−01A, spectrum: 50732
APSQHLSSFDPCFYR,5R5H
MVH=59.9831
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5++
b10++
y5
y6++
b10
b7
b9

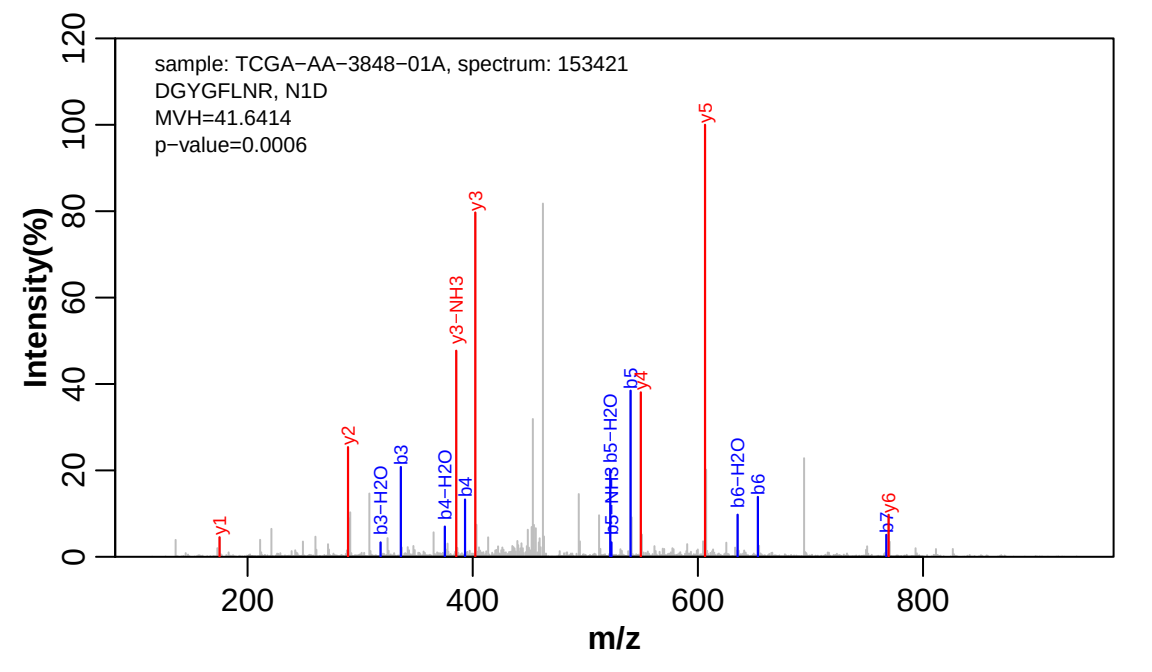

sample: TCGA−AA−3848−01A, spectrum: 16741
AWLSSQAAELER, V7A
MVH=55.8333
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
b5
y5
b6−H2O
y6−NH3
y6
b7
y7
b8
y8
y9
b9−NH3
b9
y9−NH3
b10−H2O
b10
y10−NH3
y10
b11−H2O
b11

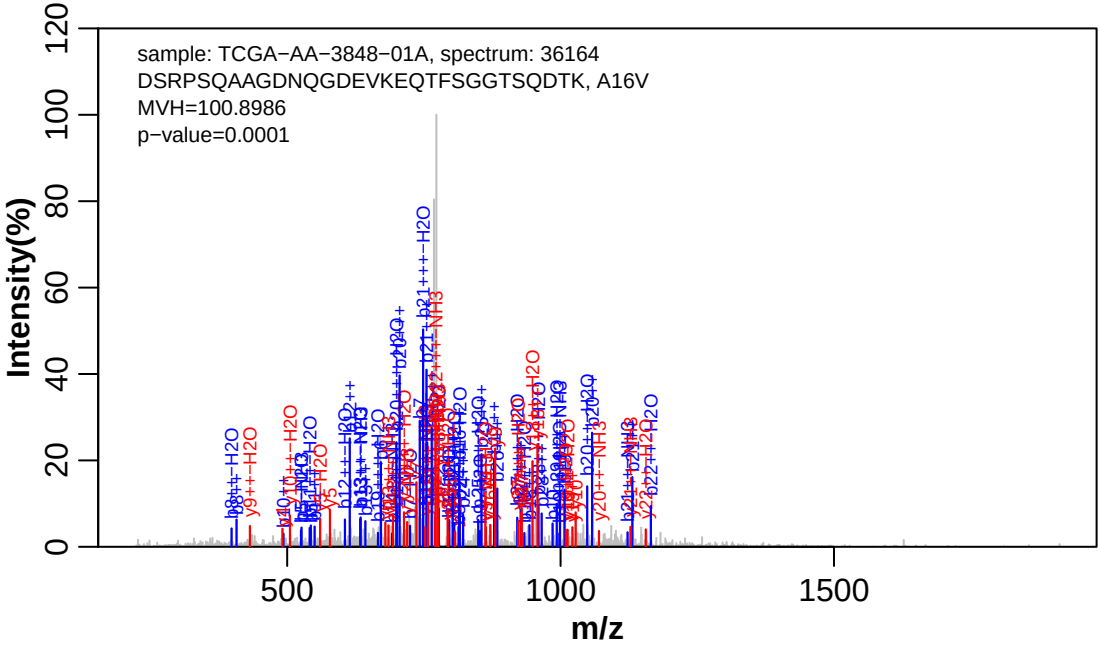

sample: TCGA−AA−3848−01A, spectrum: 57542
CPAAPPPPAGGAANNHGAGSGAGGR, G1C1
MVH=24.9437
p−value=0.0001
y21++
b3
b4
b8
y20++
b20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

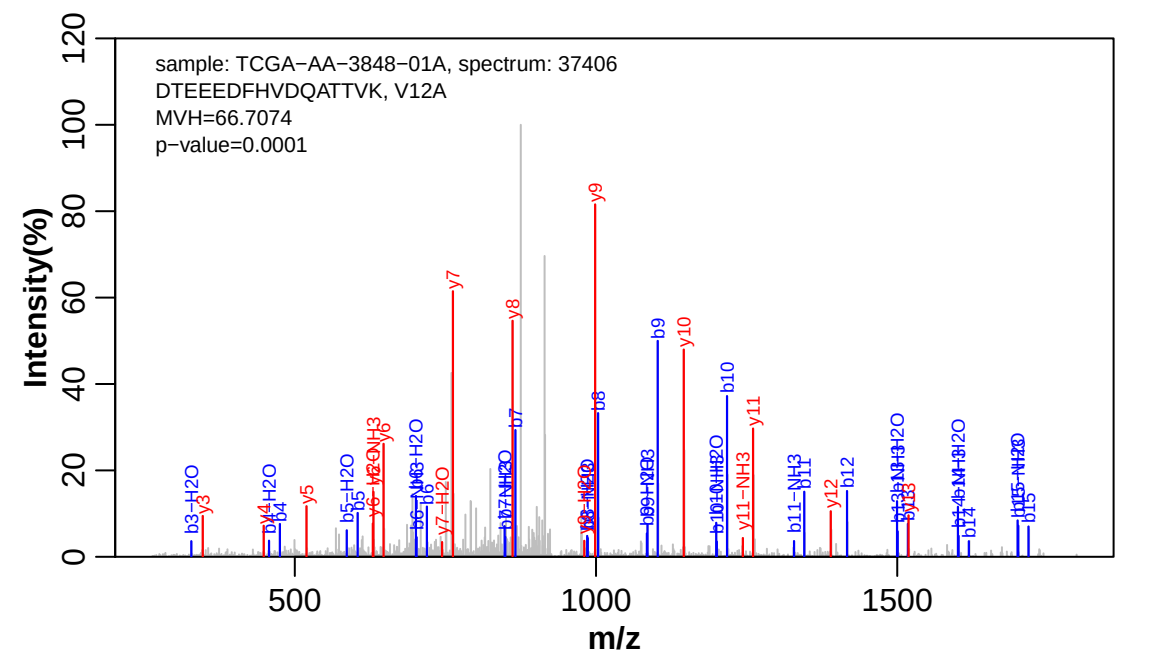

sample: TCGA−AA−3848−01A, spectrum: 83750
DAGNEQDLGLQYK, N1D
MVH=44.6038
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
b5
b6
b8
b9
y7
y8
y8−NH3
b10
y9
b11
y10−NH3
y11
b12

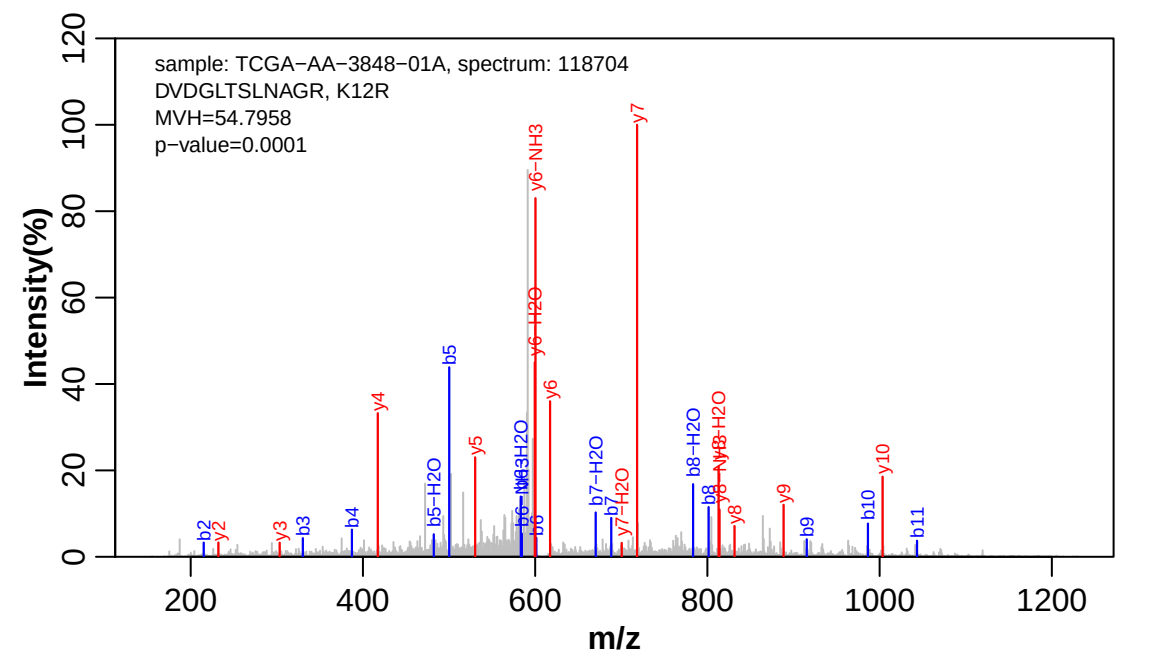

sample: TCGA−AA−3848−01A, spectrum: 85703
DDANNDPQWCEEQLLAAK, S10C
MVH=38.5347
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y13
y7
y4
b10
b12
b14
b16
b17

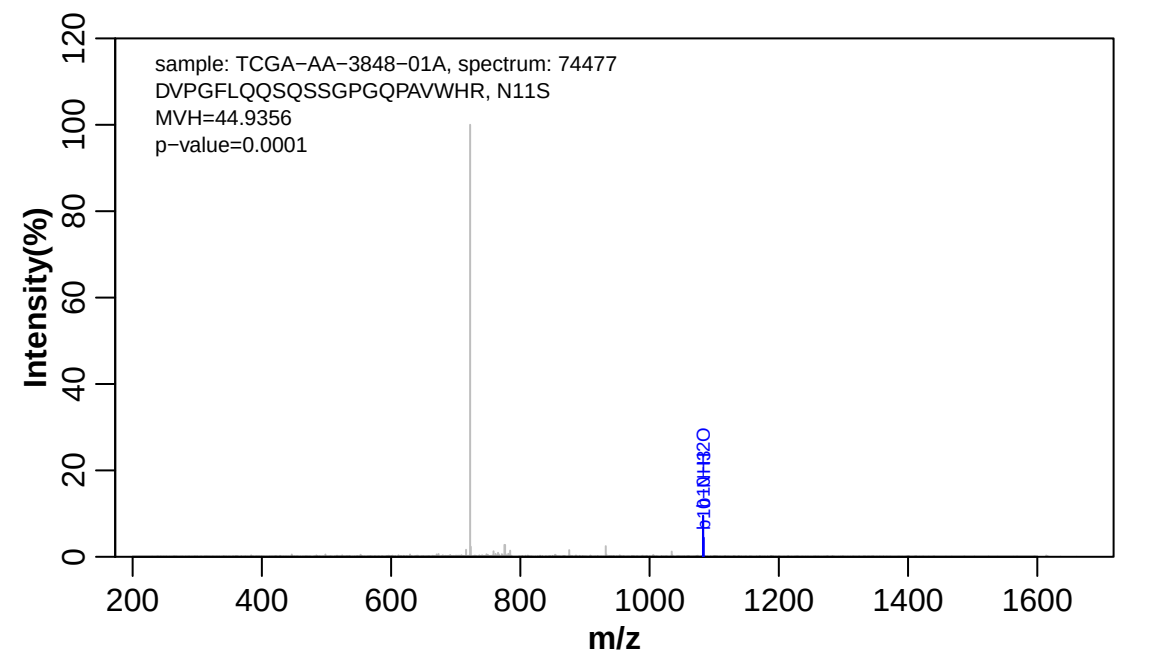

sample: TCGA−AA−3848−01A, spectrum: 19222
DFYVVEPLAFEGTPEQK, I4V
MVH=50.0498
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
b13
y4
b4
b3
b6
y14
y10
y9
b9
b12
b6−H2O
y7−H2O
y6−H2O
y8−H2O
b8−H2O
b10
y11−NH3
y11−H2O
b11
y12−NH3
y12−H2O
y13
y13−NH3
y13−H2O
b13−NH3
b13−H2O

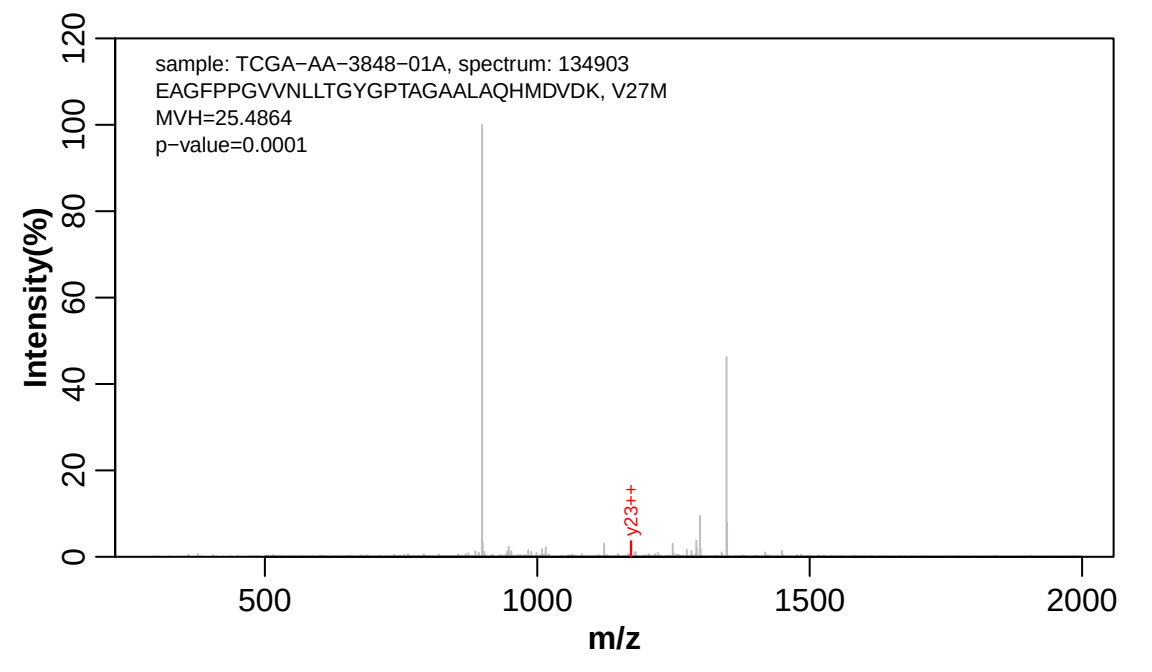

sample: TCGA−AA−3848−01A, spectrum: 153421
DGYGFLNR, N1D
MVH=41.6414
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

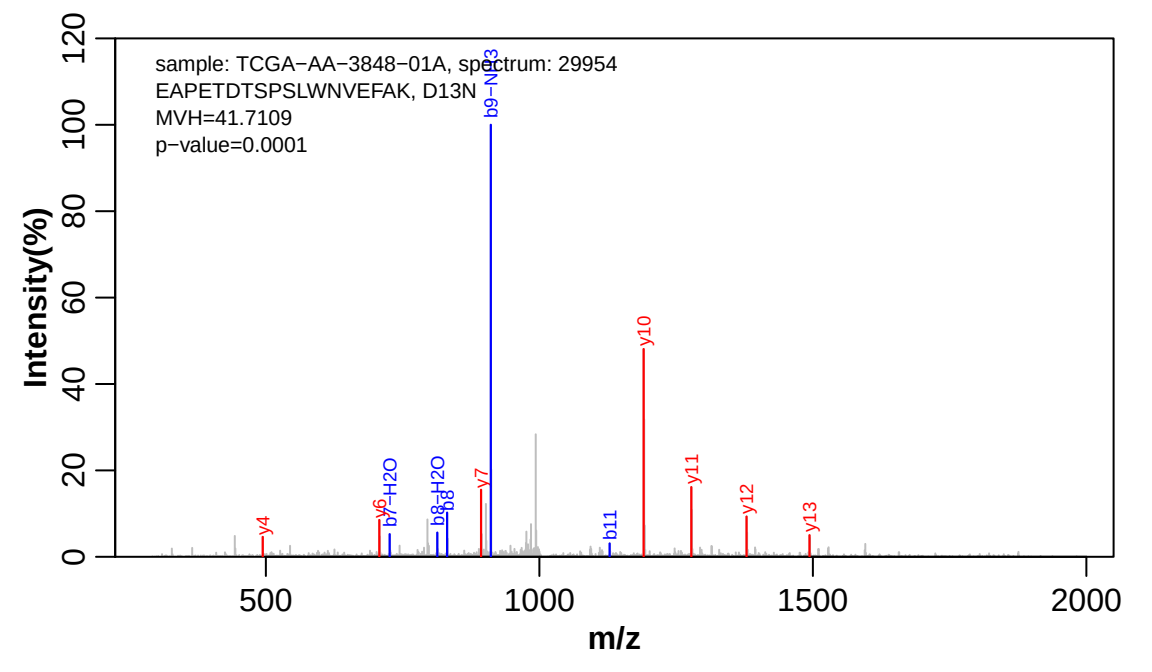

sample: TCGA−AA−3848−01A, spectrum: 36164
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=100.8986
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

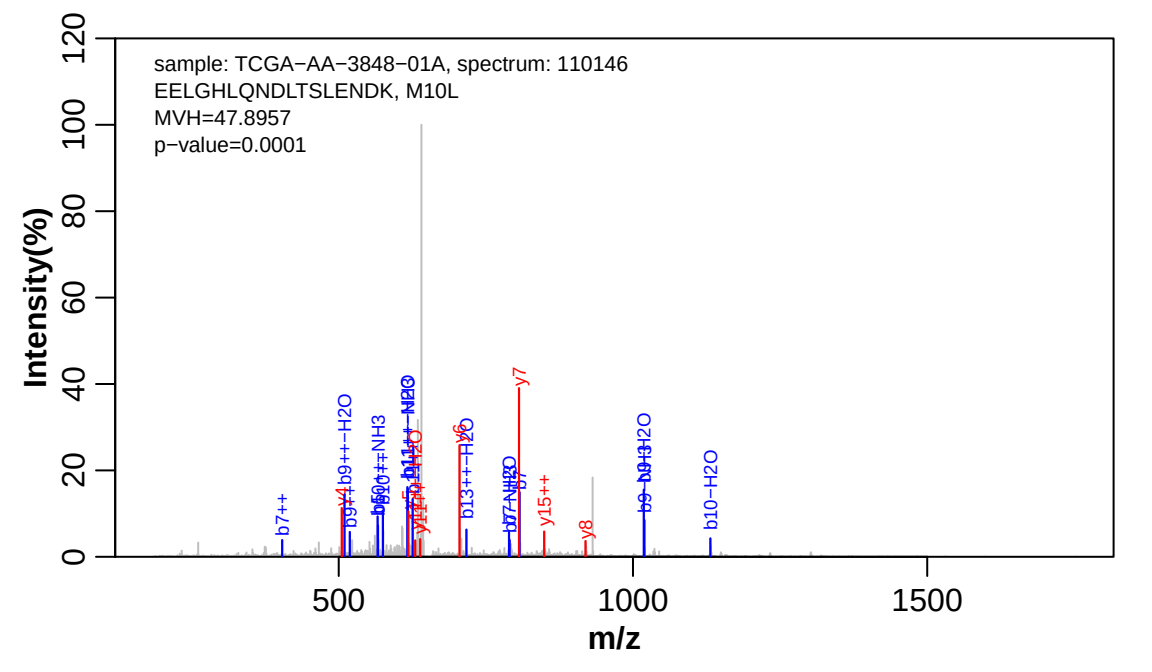

sample: TCGA−AA−3848−01A, spectrum: 37406
DTEEEDFHVDQATTVK, V12A
MVH=66.7074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
b4−H2O
b4
y5
b5−H2O
b5
y6−H2O
y6
y6−NH3
b6−NH3
b6−H2O
b6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8
y9
b9
y10
b10
y11
y11−NH3
b11−NH3
b11
y12
b12
b13
b14
b15

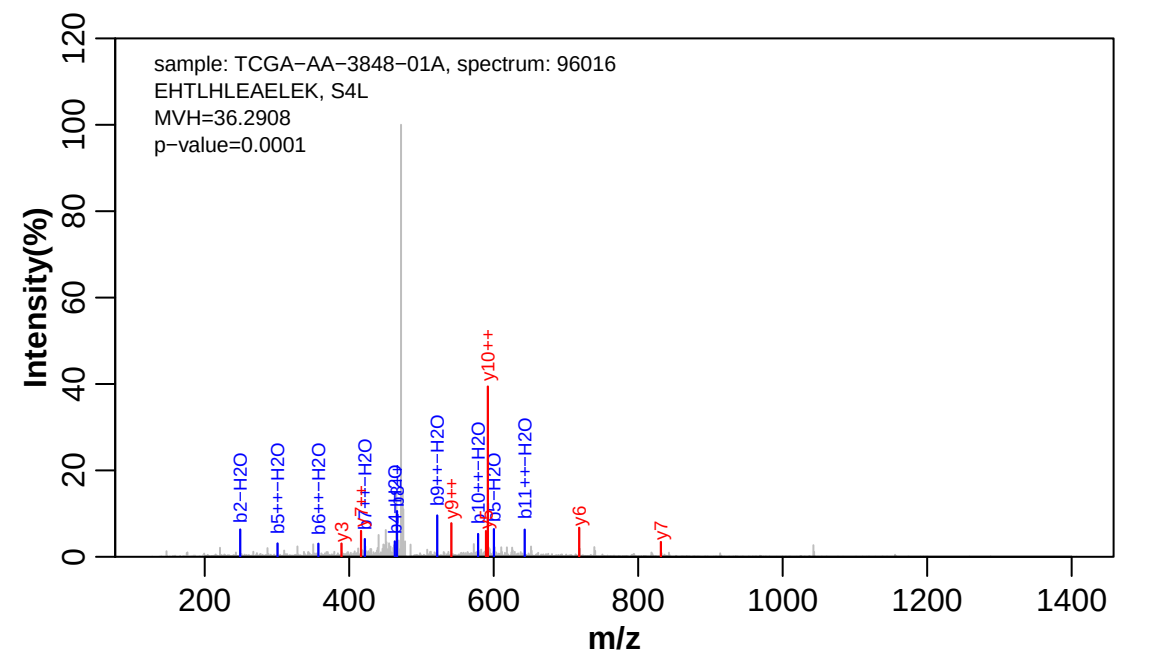

sample: TCGA−AA−3848−01A, spectrum: 118704
DVDGLTSLNAGR, K12R
MVH=54.7958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−H2O
b7
y7−H2O
y7
b8−H2O
b8
y8−NH3
y8−H2O
y8
y9
b9
b10
y10
b11

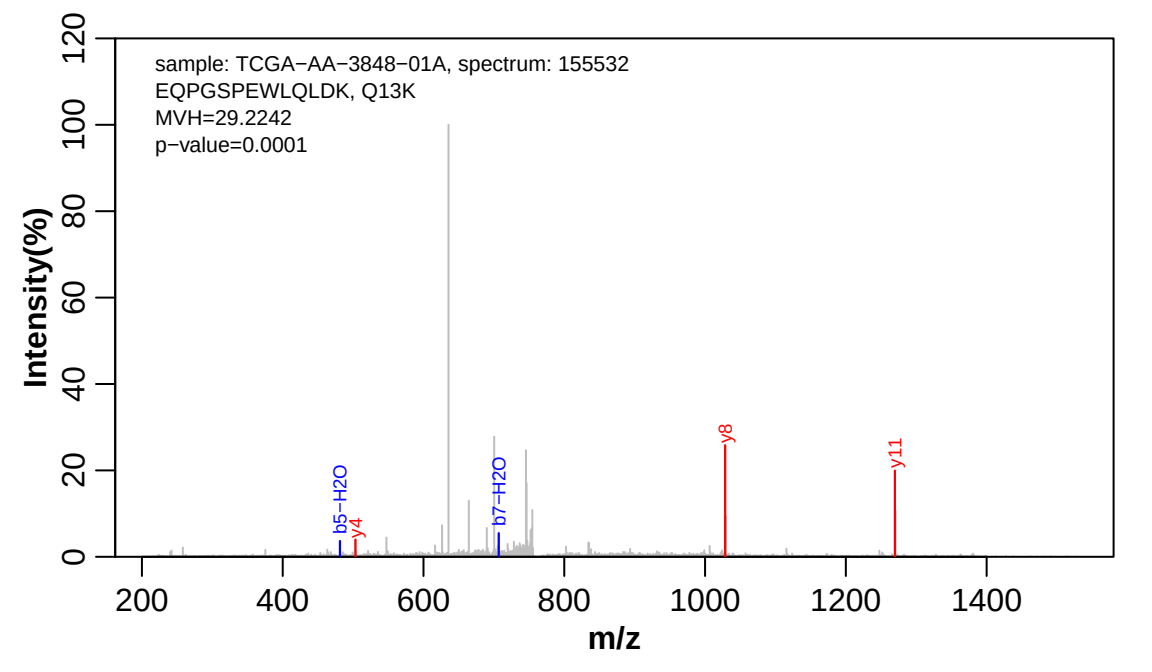

sample: TCGA−AA−3848−01A, spectrum: 74477
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=44.9356
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10-NH3
b10-H2O

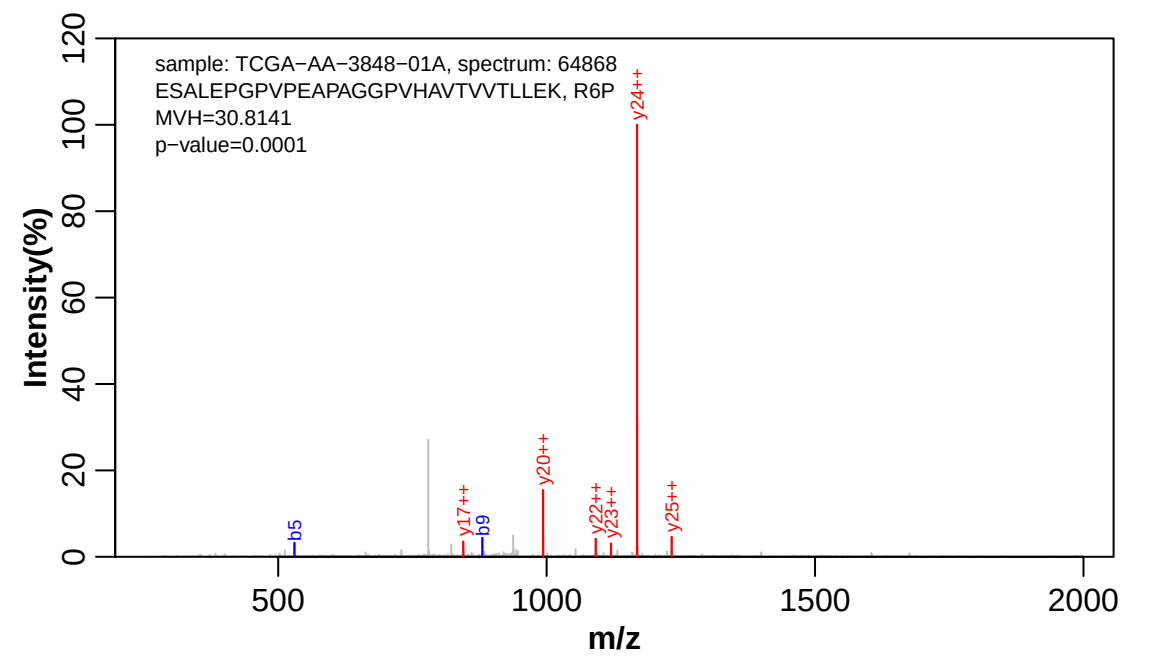

sample: TCGA−AA−3848−01A, spectrum: 134903
EAGFPPGVVNLLTGYGPTAGAALAQHMDVDK, V27M
MVH=25.4864
p−value=0.0001
y23++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

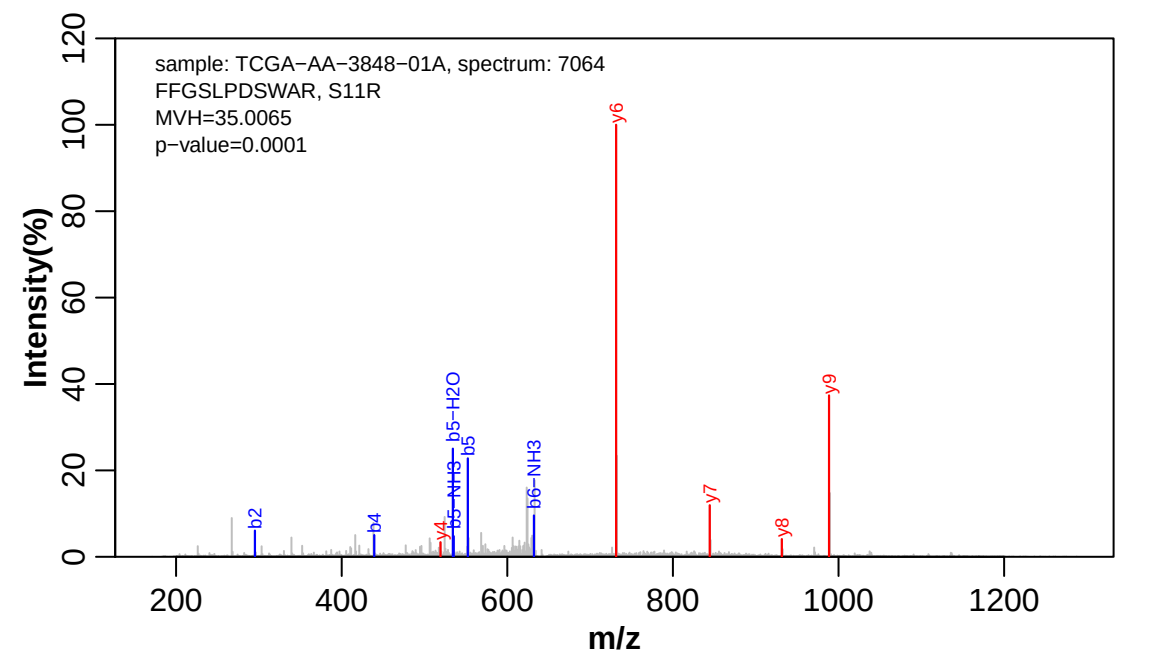

sample: TCGA−AA−3848−01A, spectrum: 29954
EAPETDTSPSLWNVEFAK, D13N
MVH=41.7109
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9−NH3
y10
y11
y12
y13
y7
y6
y4
b7−H2O
b8−H2O
b8
b11

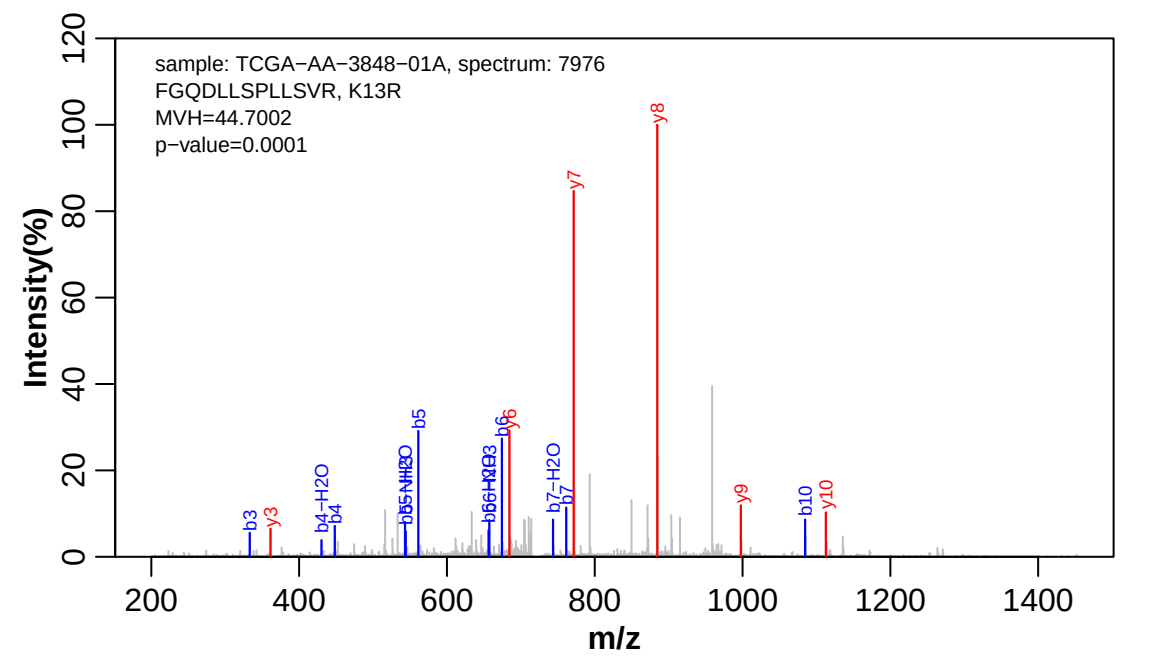

sample: TCGA−AA−3848−01A, spectrum: 110146
EELGHLQNDLTSLENDK, M10L
MVH=47.8957
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
b9++−H2O
b9++
b9++−NH3
y7
b13++−H2O
y15++
y8
b10−H2O

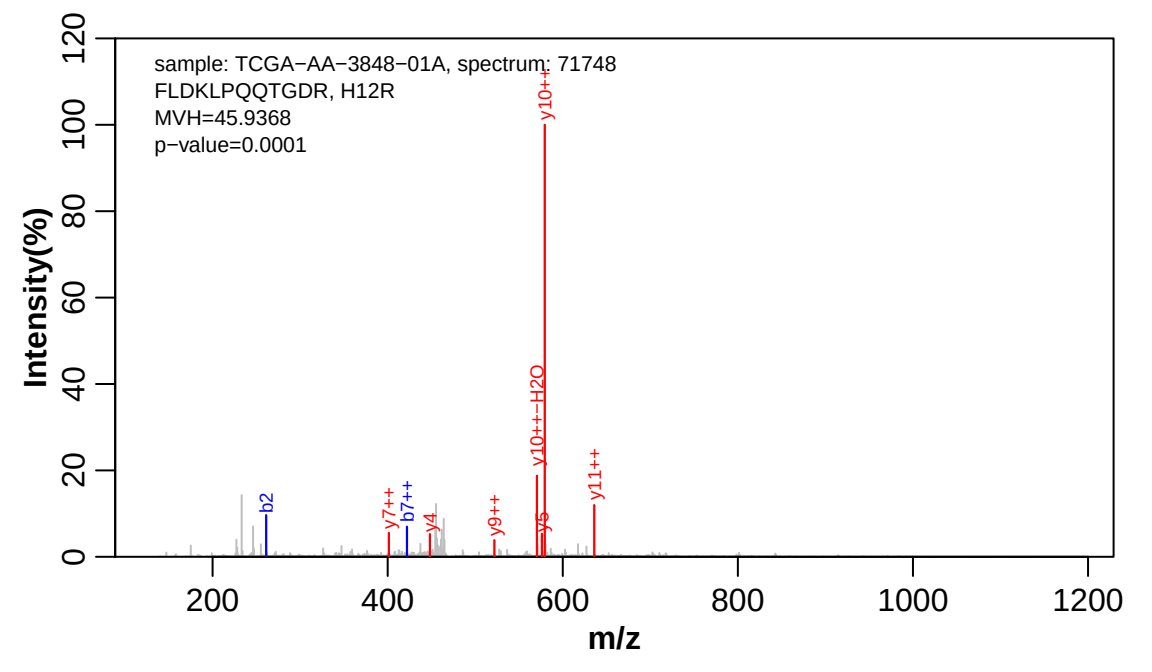

sample: TCGA−AA−3848−01A, spectrum: 96016
EHTLHLEAELEK, S4L
MVH=36.2908
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b5++−H2O
b6++−H2O
y3
b7++−H2O
b9++−H2O
y9++
y10++
b10++−H2O
b5−H2O
b11++−H2O
y6
y7

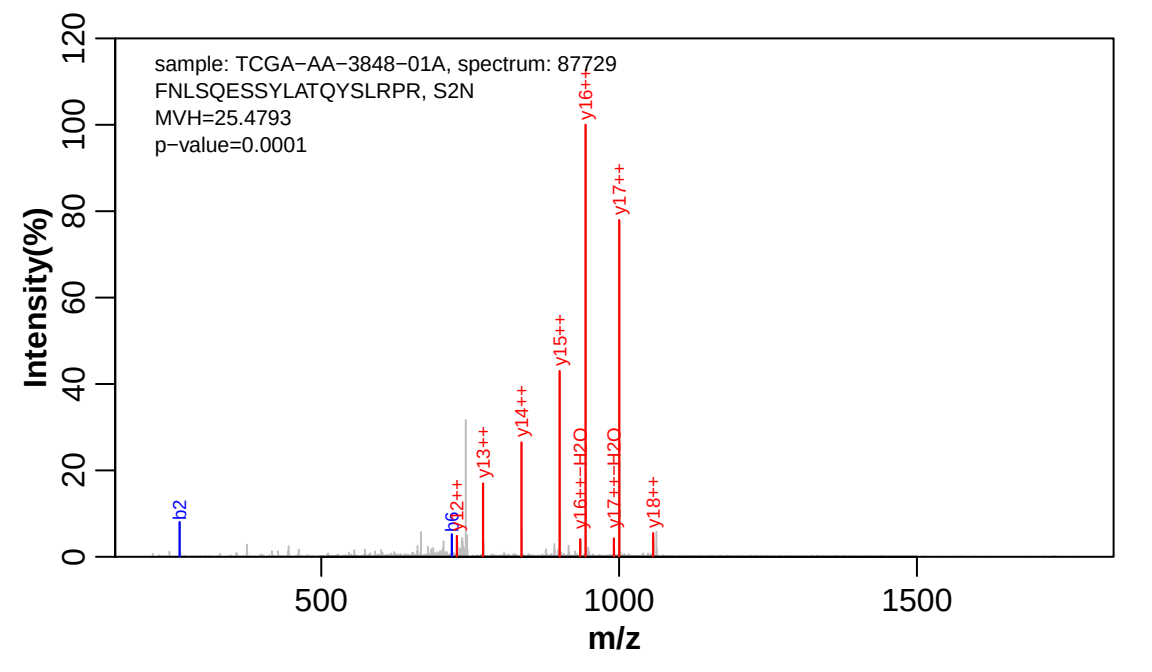

sample: TCGA−AA−3848−01A, spectrum: 155532
EQPGSPEWLQLDK, Q13K
MVH=29.2242
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
y8
y11

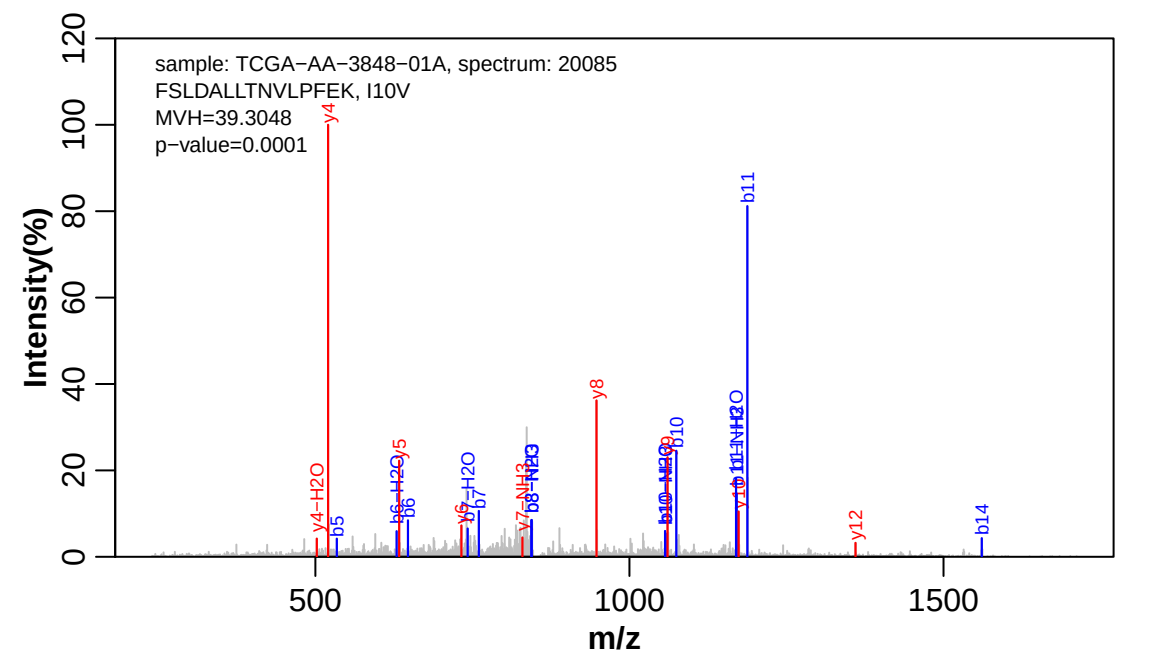

sample: TCGA−AA−3848−01A, spectrum: 64868
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=30.8141
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y17++
b9
y20++
y22++
y23++
y24++
y25++

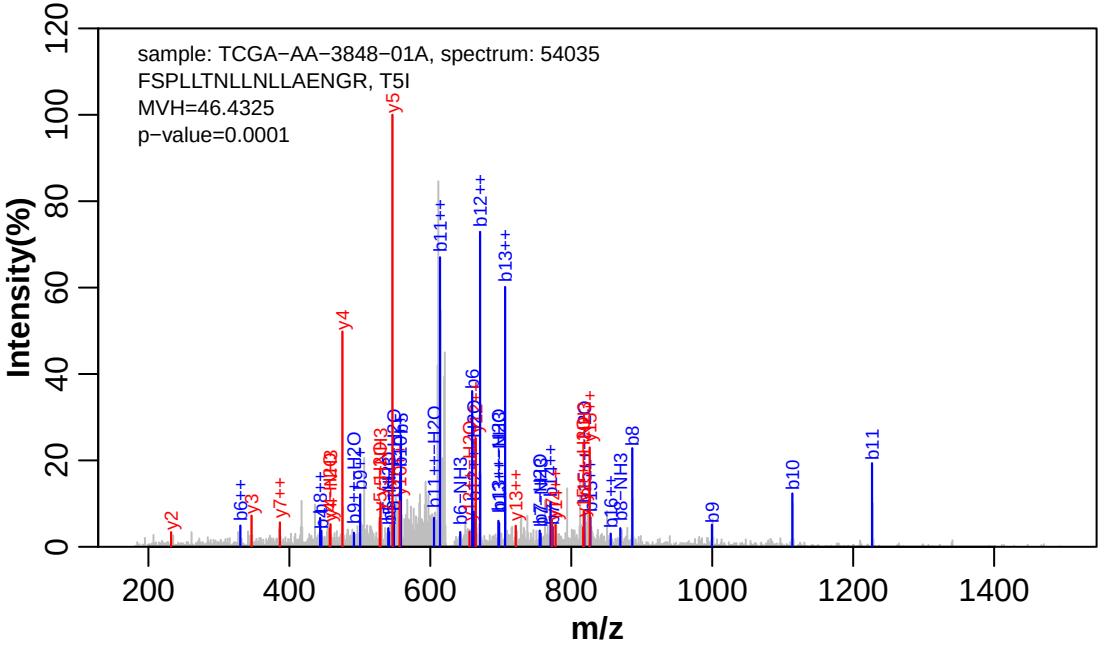

sample: TCGA−AA−3848−01A, spectrum: 7064
FFGSLPDSWAR, S11R
MVH=35.0065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b5−H2O
b5
b5−NH3
b6−NH3
b2
b4
y4

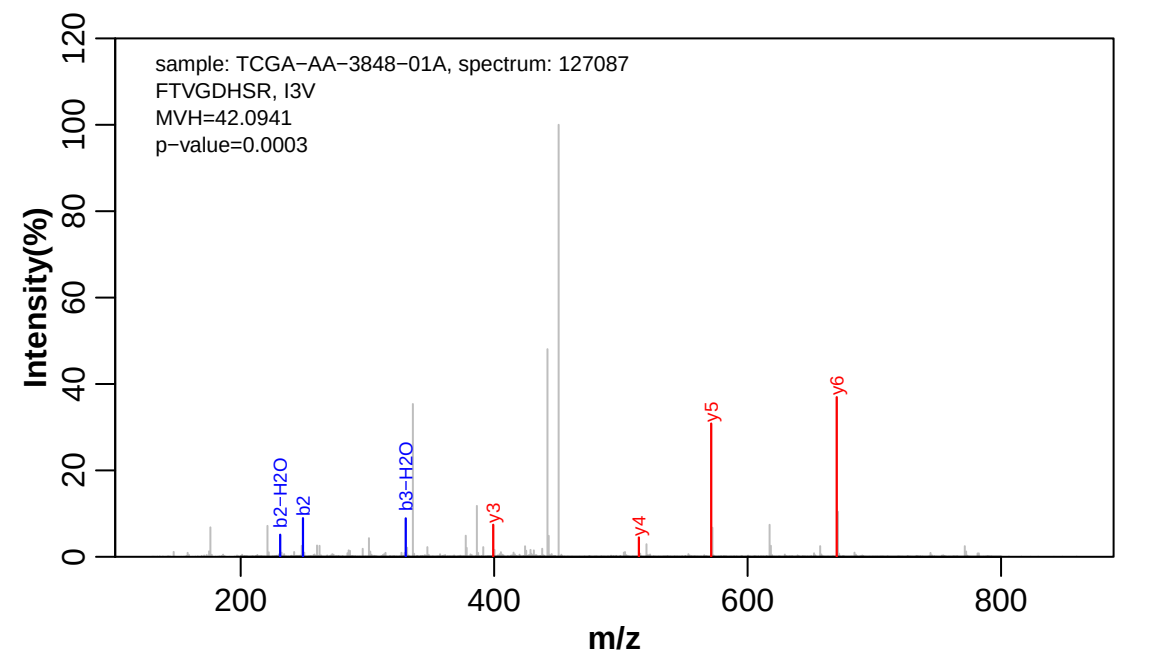

sample: TCGA−AA−3848−01A, spectrum: 7976
FGQDLLSPLLSVR, K13R
MVH=44.7002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

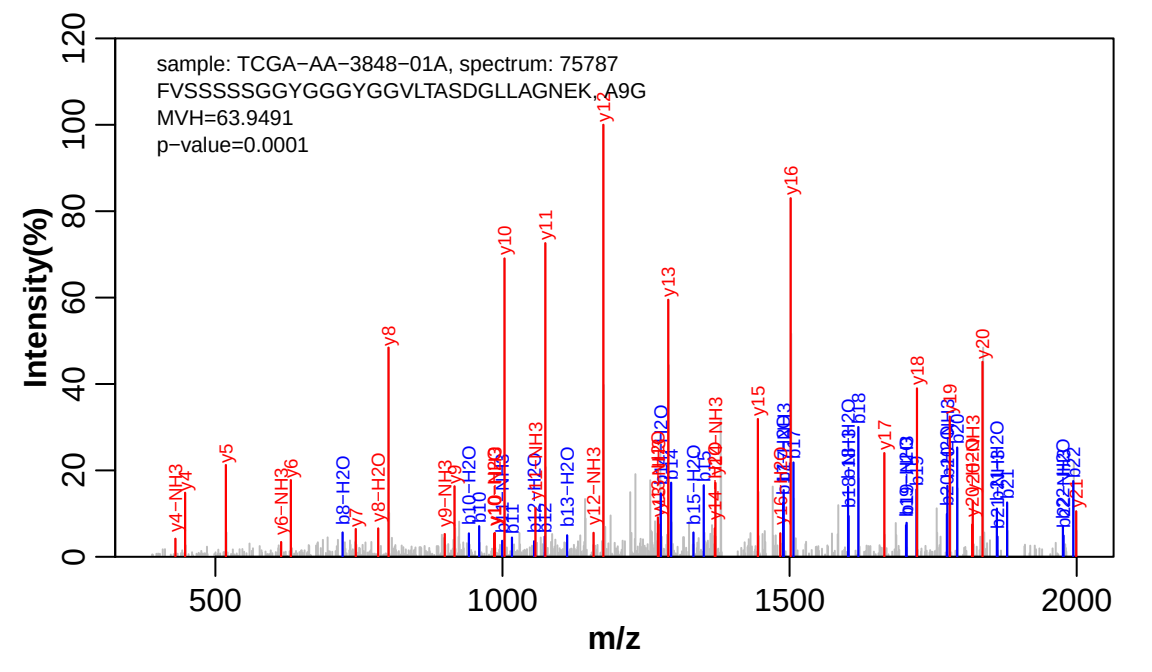

sample: TCGA−AA−3848−01A, spectrum: 71748
FLDKLPQQTGDR, H12R
MVH=45.9368
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b2
y7++
b7++
y4
y9++
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200

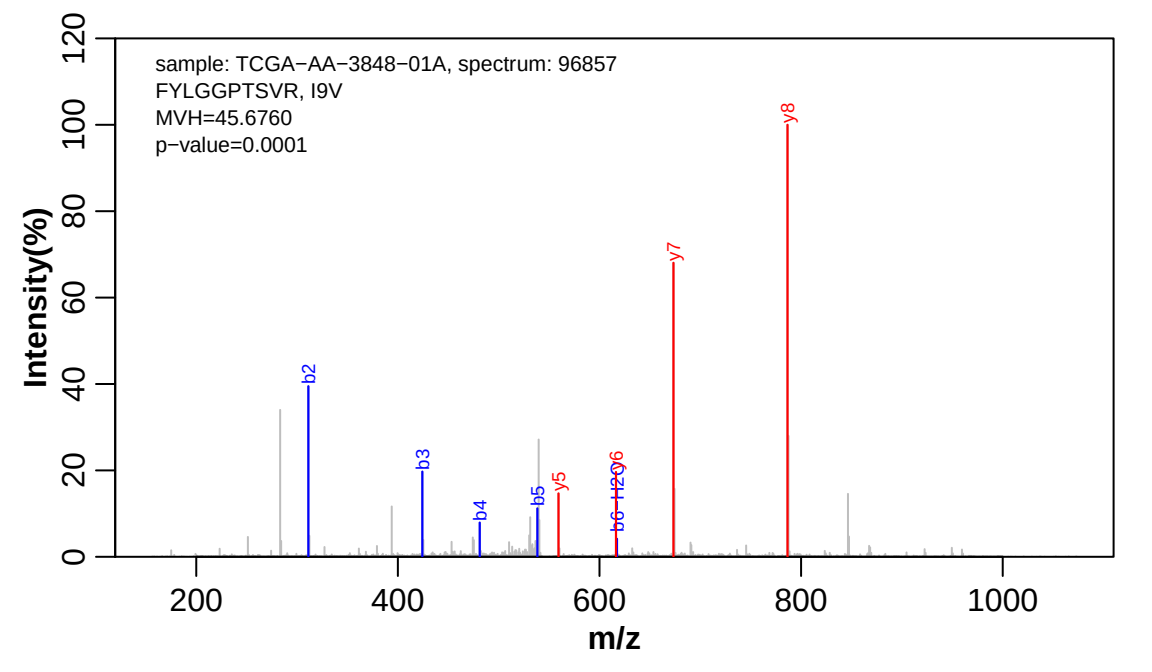

sample: TCGA−AA−3848−01A, spectrum: 87729
FNLSQESSYLATQYSLRPR, S2N
MVH=25.4793
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b6
y2++
y13++
y14++
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

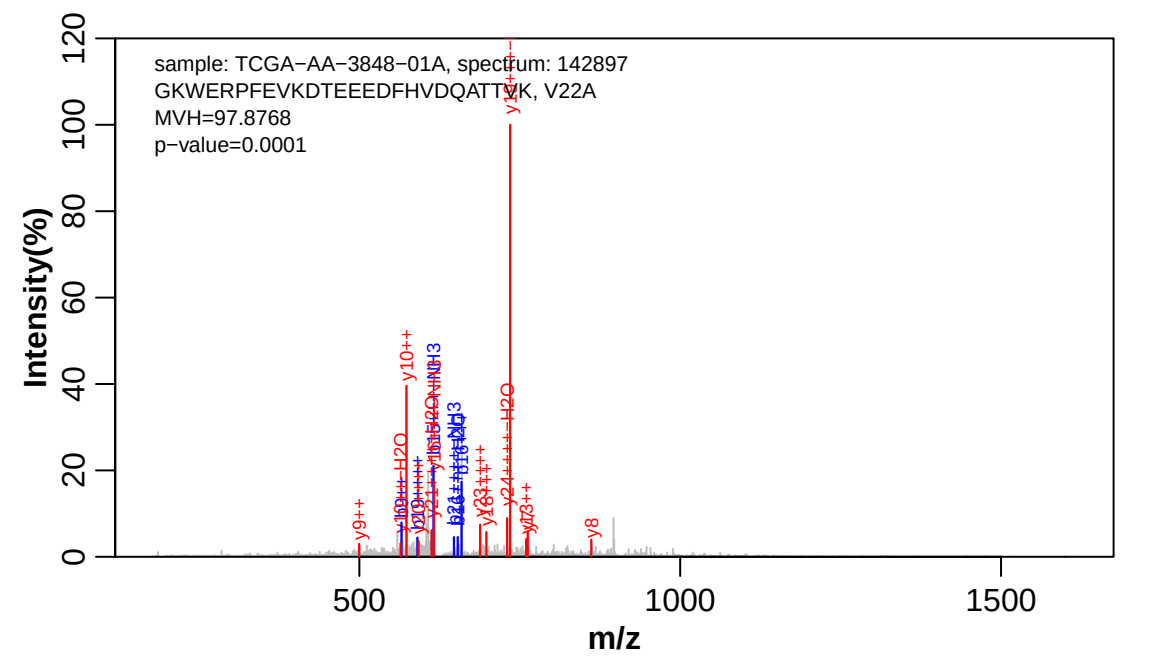

sample: TCGA−AA−3848−01A, spectrum: 20085
FSLDALLTNVLPFEK, I10V
MVH=39.3048
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y4−H2O
b5
b6
b6−H2O
y5
y6
y6−H2O
b7
y7
y7−NH3
b8
b8−H2O
b8−NH3
y8
b10
b10−H2O
b10−NH3
b11
y12
b14

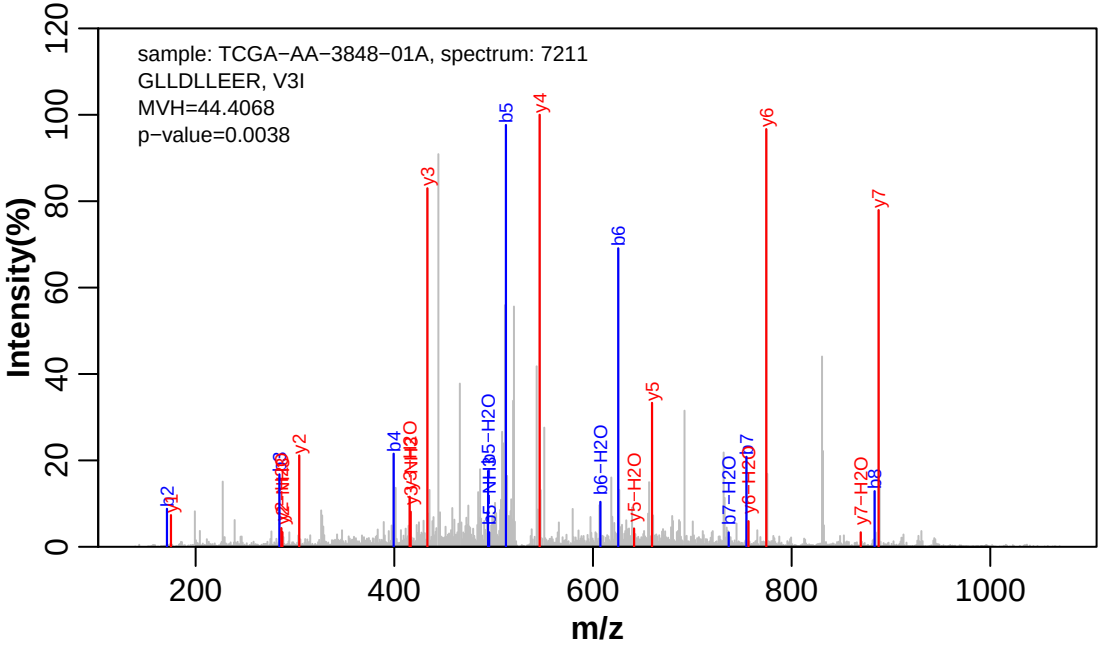

sample: TCGA−AA−3848−01A, spectrum: 54035
FSPLLTNLLNLLAENGR, T5I
MVH=46.4325
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
y2
y3
y7++
b6++
b11++
b12++
b13++
b11++−H2O
b6−NH3
b8
b9
b10
b11
b16++
b8−NH3

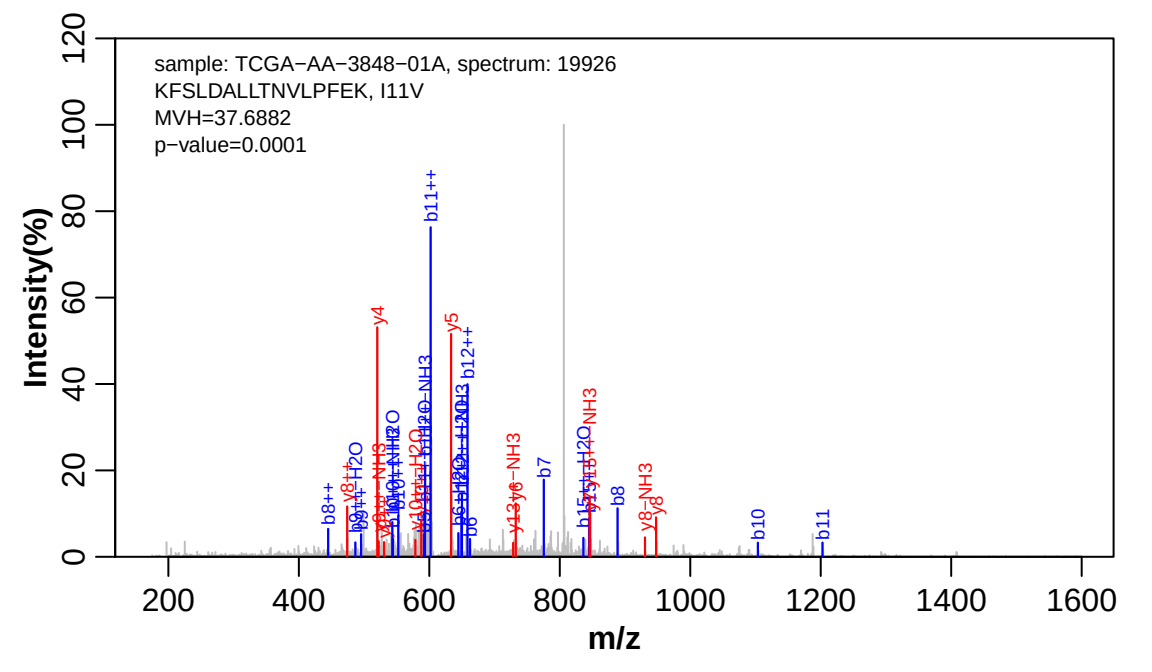

sample: TCGA−AA−3848−01A, spectrum: 127087
FTVGDHSR, I3V
MVH=42.0941
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
y4
y5
y6

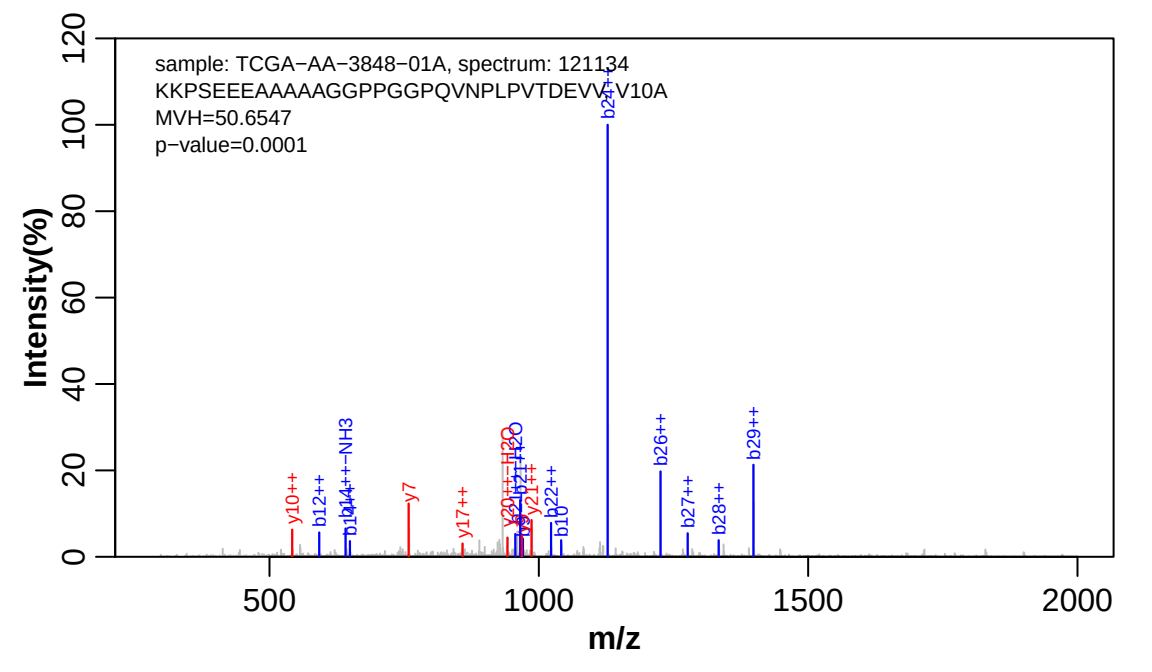

sample: TCGA−AA−3848−01A, spectrum: 75787
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=63.9491
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y16
y11
y10
y13
y8
y15
y20
y18
y5
y4−NH3
y6−NH3
b8−H2O
y8−H2O
y9−NH3
b10−H2O
y12−NH3
b13−H2O
b15−H2O
y14−NH3
b18−H2O
y17
b21

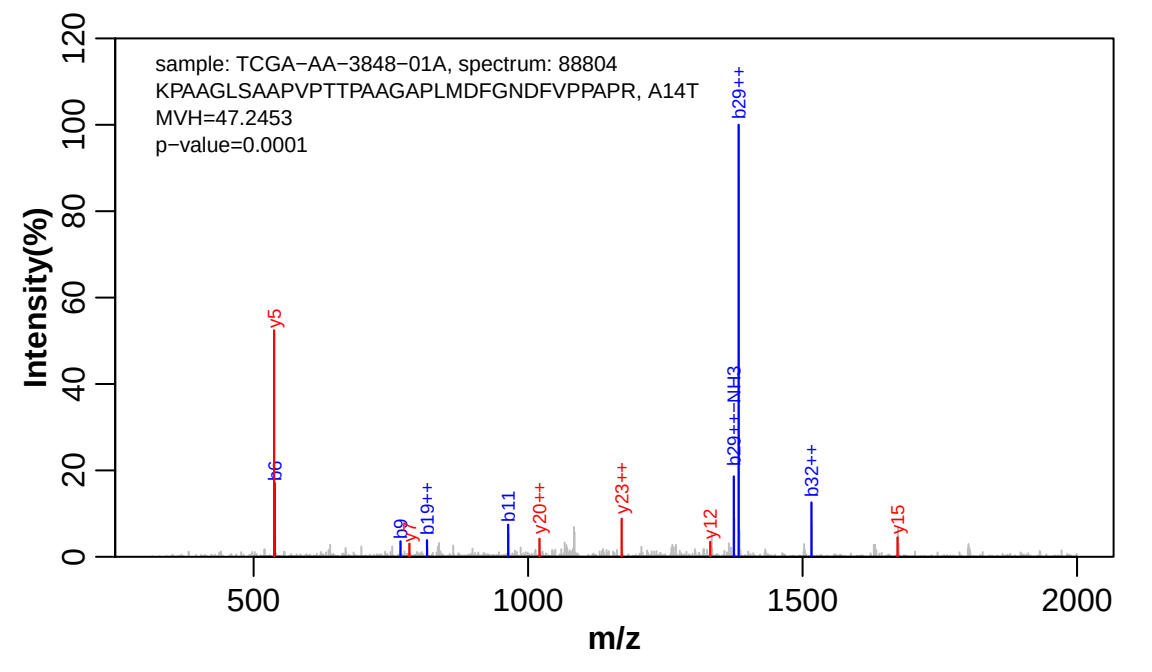

sample: TCGA−AA−3848−01A, spectrum: 96857
FYLGGPTSVR, I9V
MVH=45.6760
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

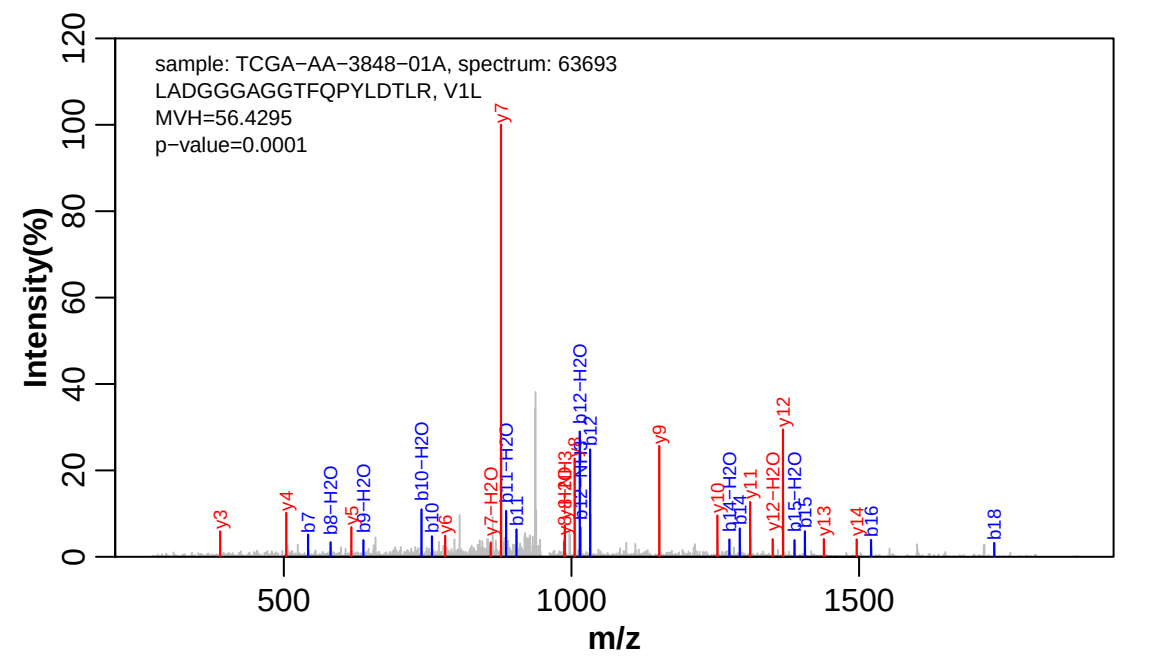

sample: TCGA−AA−3848−01A, spectrum: 142897
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=97.8768
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y9++
y10++
y14++
y8

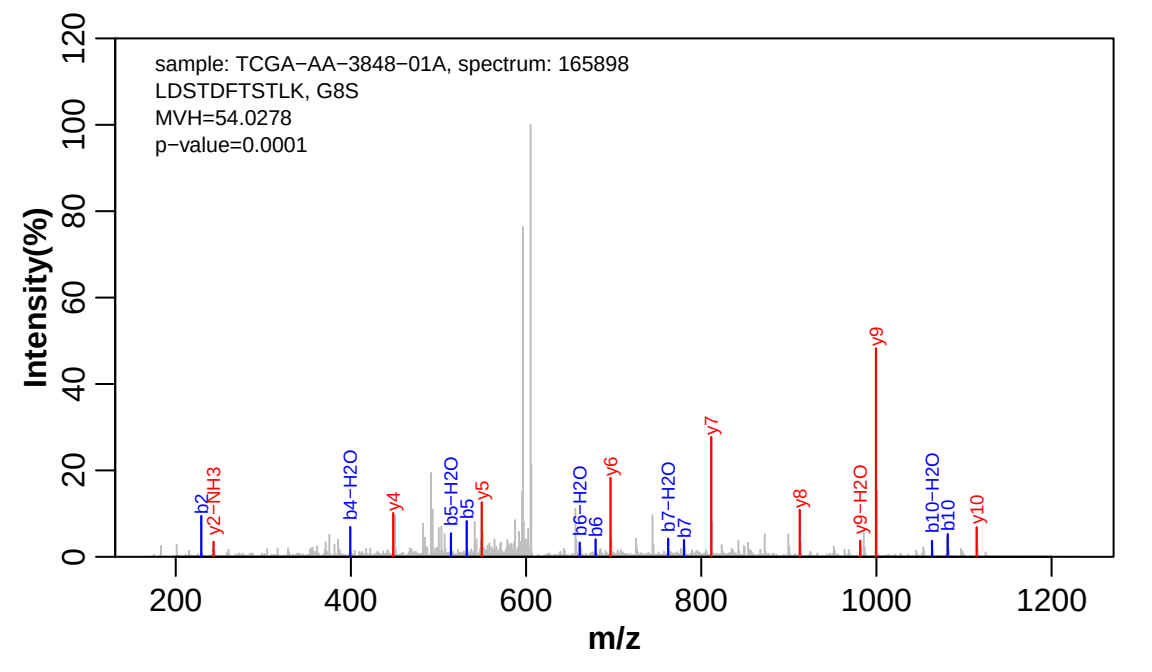

sample: TCGA−AA−3848−01A, spectrum: 7211
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
y6
y7
b6
y5
b4
y2
y1
b2
b6−H2O
y5−H2O
b7−H2O
y7−H2O
b8

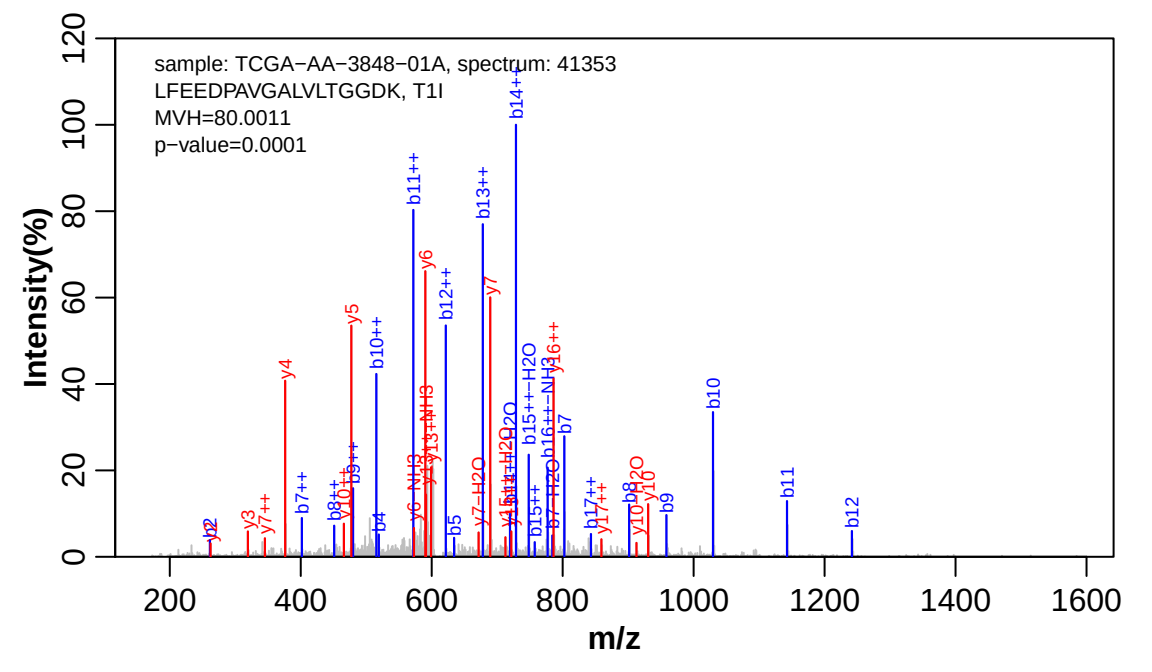

sample: TCGA−AA−3848−01A, spectrum: 19926
KFSLDALLTNVLPFEK, I11V
MVH=37.6882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b11++
y4
y5
b12++
b8++
b7
b8
b10
b11
y8
y8−NH3
y13
y6−NH3

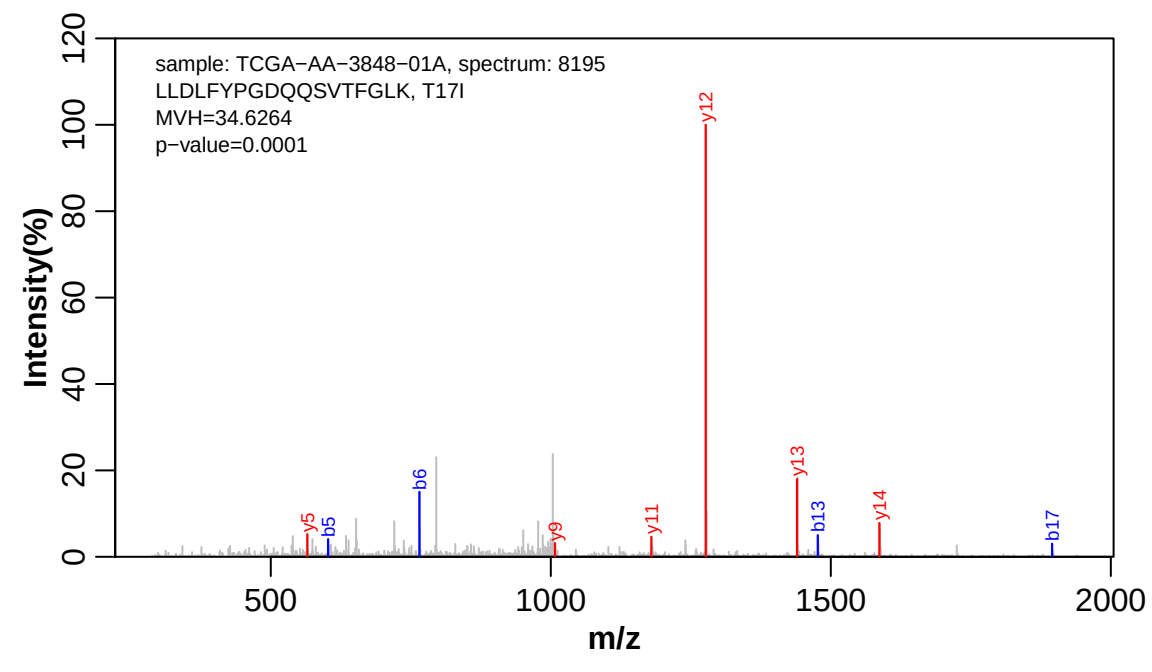

sample: TCGA−AA−3848−01A, spectrum: 121134
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=50.6547
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b26++
b29++
b27++
b28++
y10++
b12++
b14++−NH3
y7
y17++
b22++
b10

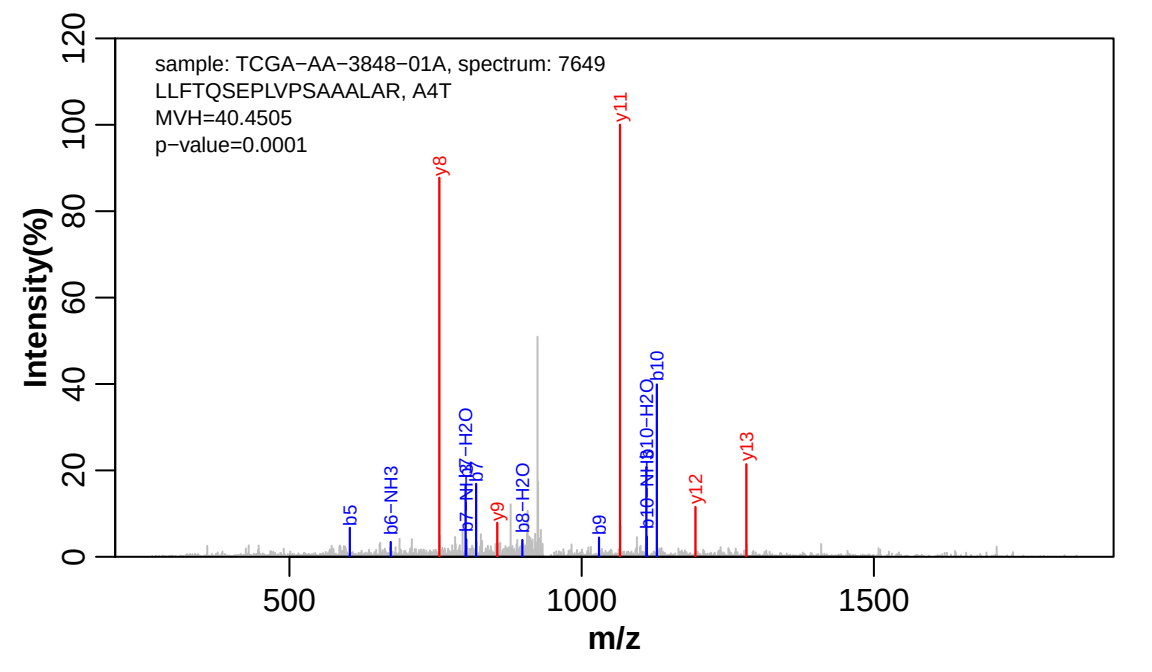

sample: TCGA−AA−3848−01A, spectrum: 88804
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=47.2453
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
b6
b9
y7
b19++
b11
y20++
y23++
y12
b29++
b29++−NH3
b32++
y15

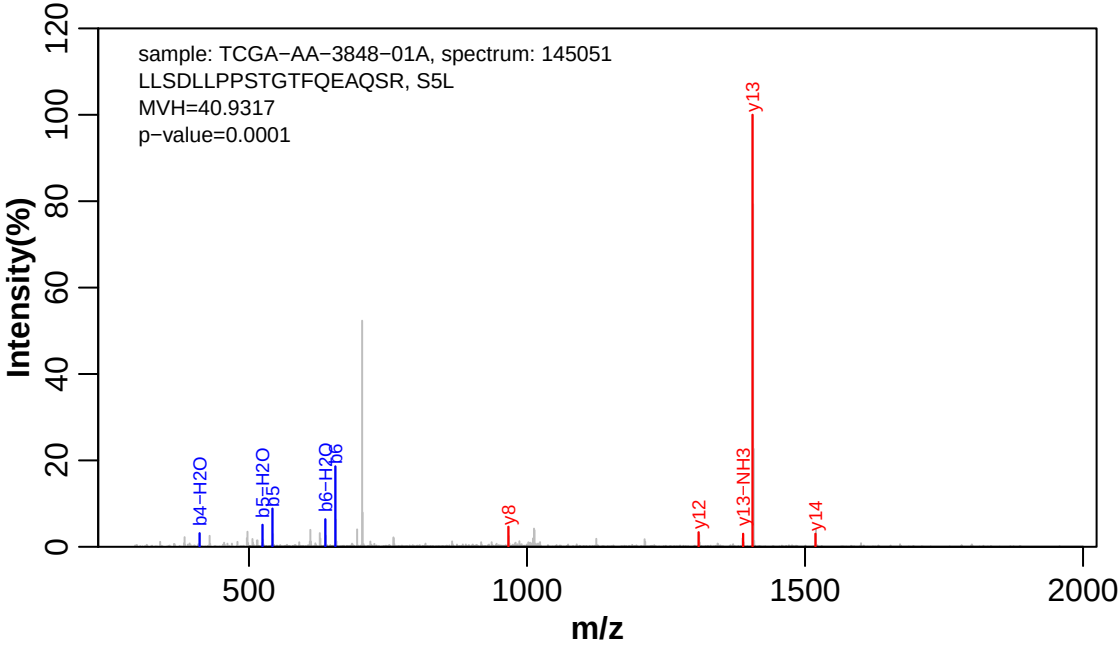

sample: TCGA−AA−3848−01A, spectrum: 63693
LADGGGAGGTFQPYLDTLR, V1L
MVH=56.4295
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b7
b8−H2O
y5
b9−H2O
b10−H2O
b10
y6
y7
y7−H2O
b11
b11−H2O
y9
b12−H2O
b12
y10
b13−H2O
b14
y11
y12
y12−H2O
b15−H2O
b15
y13
y14
b16
b18

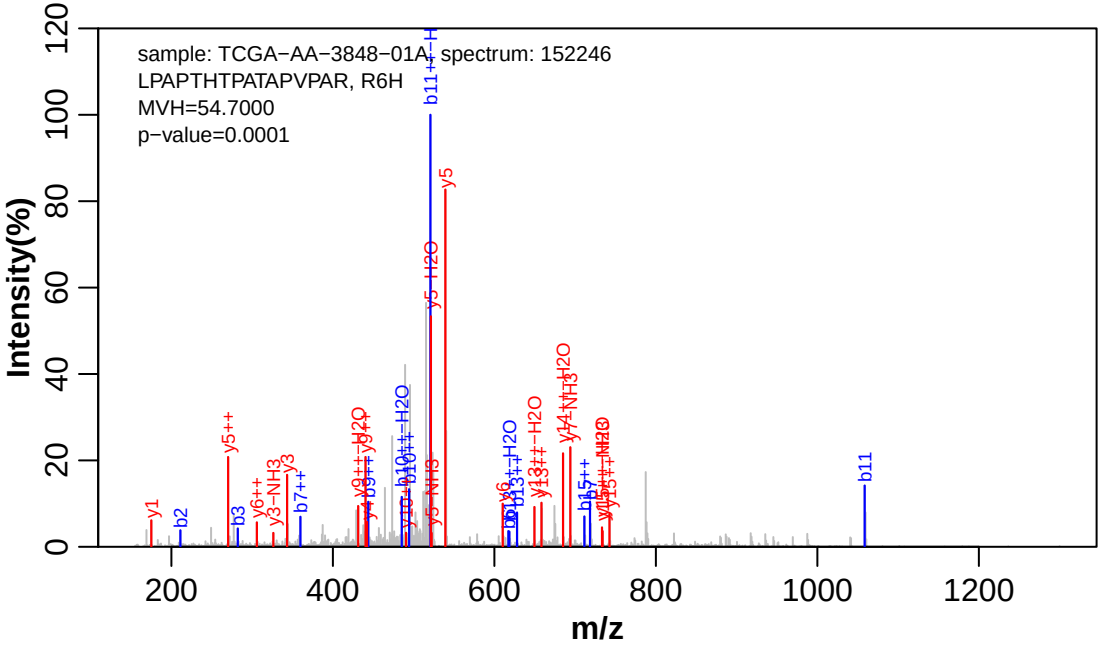

sample: TCGA−AA−3848−01A, spectrum: 165898
LDSTDFTSTLK, G8S
MVH=54.0278
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

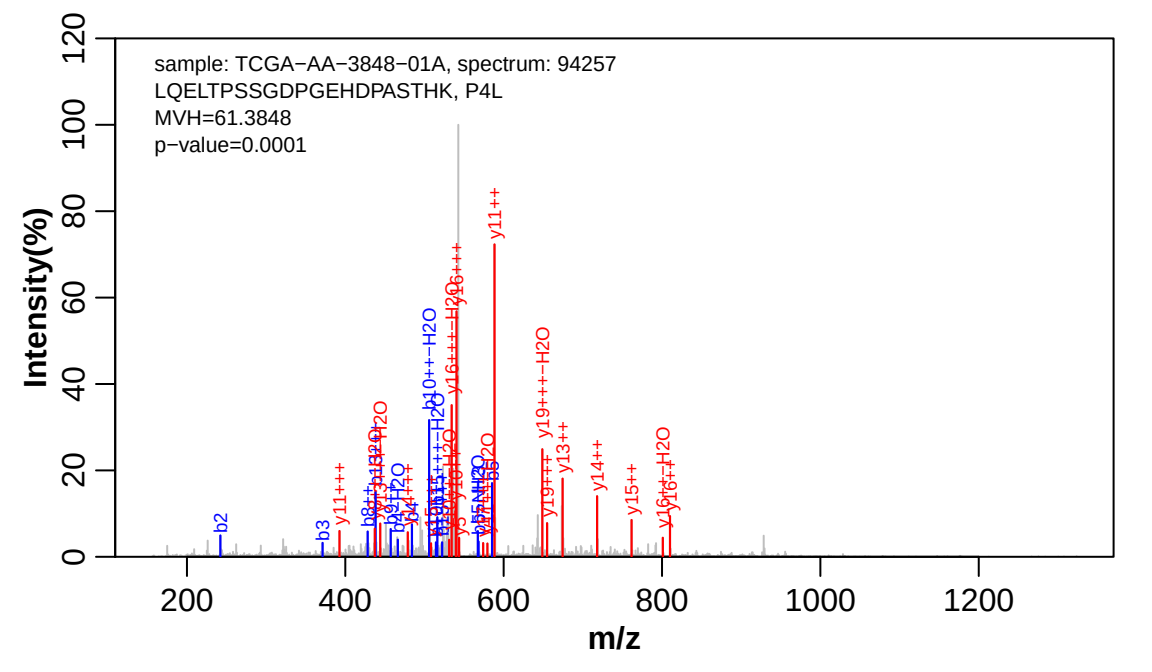

sample: TCGA−AA−3848−01A, spectrum: 41353
LFEEDPAVGALVLTGGDK, T1I
MVH=80.0011
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b14++
b11++
b13++
y6
y5
y4
b10++
b12++
y7
b7++
b10
b11
b12
b9
y10
b8
b5
b4
y3
y2
b2

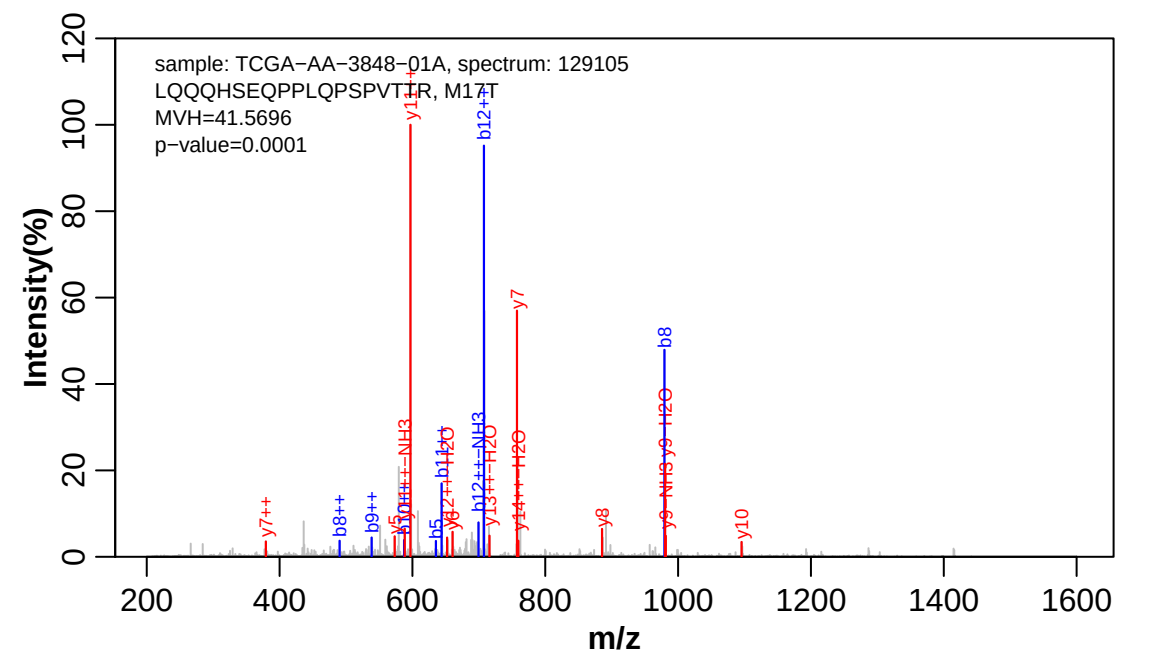

sample: TCGA−AA−3848−01A, spectrum: 8195
LLDLFYPGDQQSVTFGLK, T17I
MVH=34.6264
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
b5
b6
y9
y11
y12
y13
b13
y14
b17

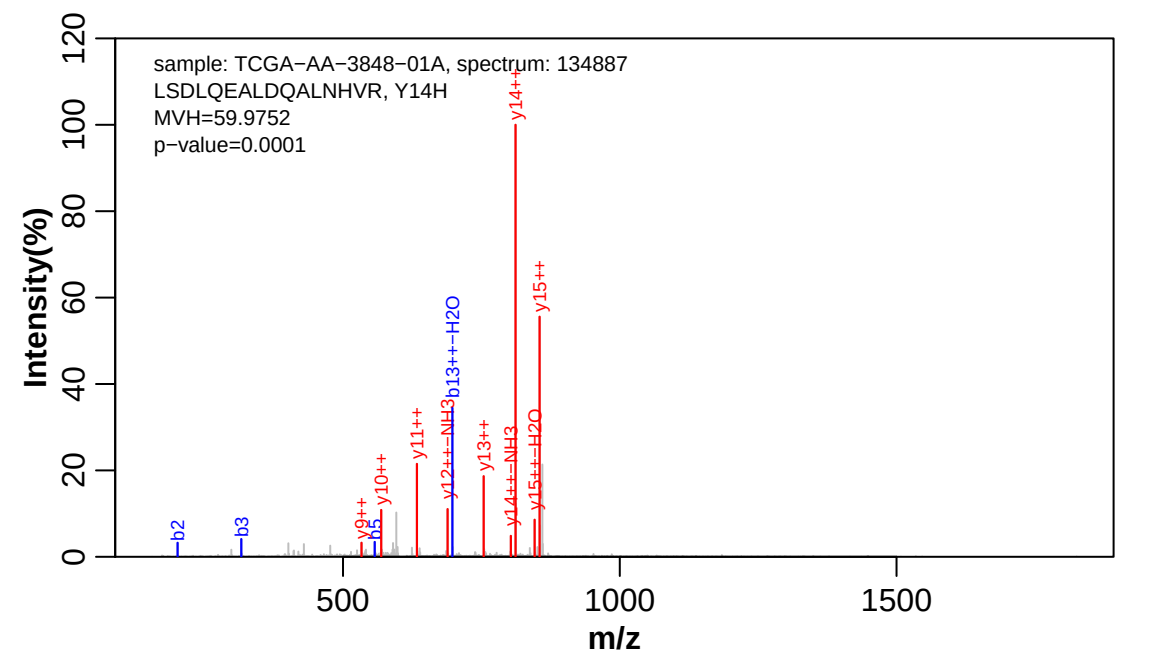

sample: TCGA−AA−3848−01A, spectrum: 7649
LLFTQSEPLVPSAAALAR, A4T
MVH=40.4505
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
y8
y11
b5
b6−NH3
b7−NH3
b7−H2O
b7
y9
b8−H2O
b9
b10−NH3
b10−H2O
b10
y12
y13

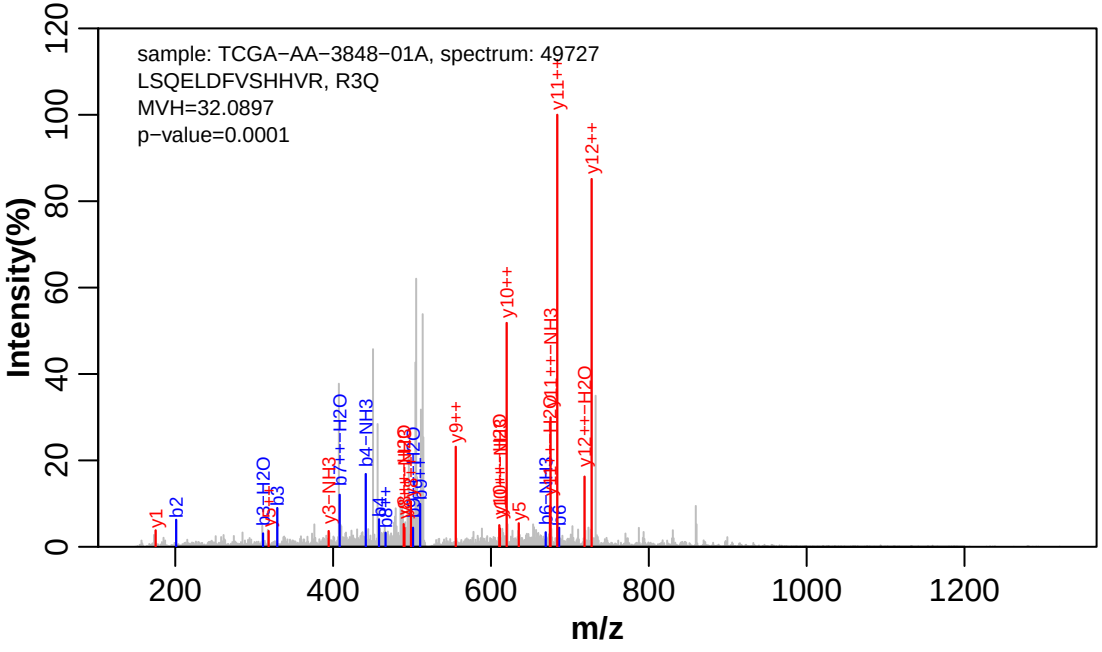

sample: TCGA−AA−3848−01A, spectrum: 145051
LLSDLLPPSTGTFQEAQSR, S5L
MVH=40.9317
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4−H2O
b5−H2O
b5
b6−H2O
b6
y8
y12
y13−NH3
y13
y14

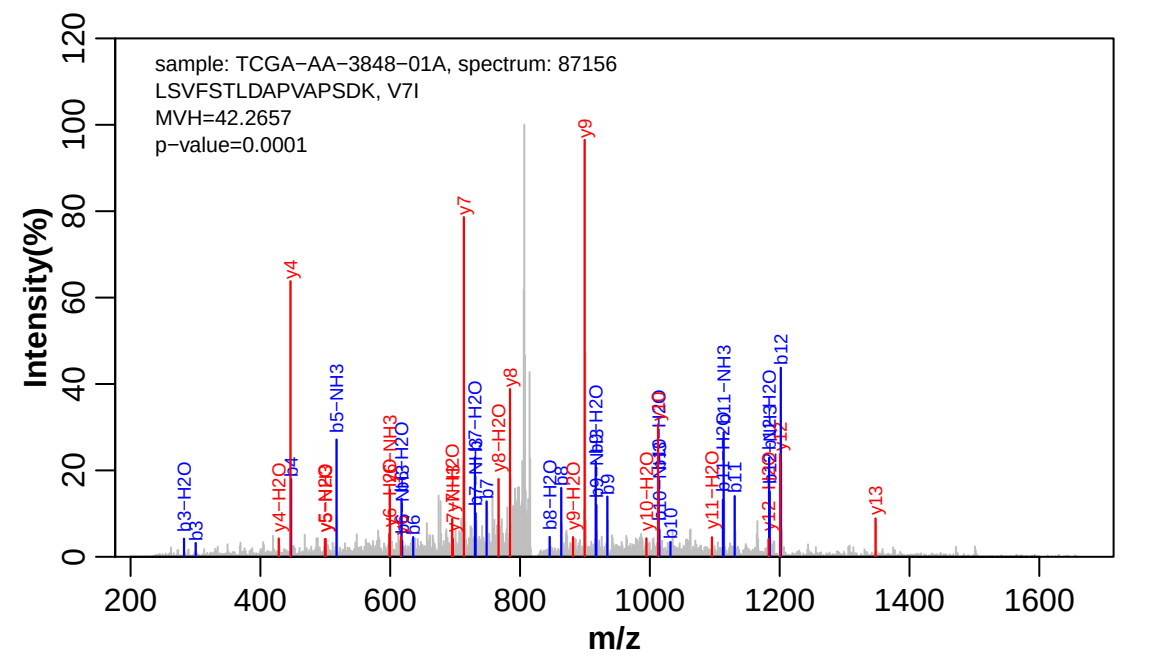

sample: TCGA−AA−3848−01A, spectrum: 152246
LPAPTHTPATAPVPAR, R6H
MVH=54.7000
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
b3
y5++
y6++
y3−NH3
y3
b7++
y9++−H2O
y9++
y10++−H2O
b10++−H2O
y5−NH3
b11++−H
y5
y5−H2O
b13++−H2O
y13++−H2O
y14−NH3
y14−H2O
b15++
b11

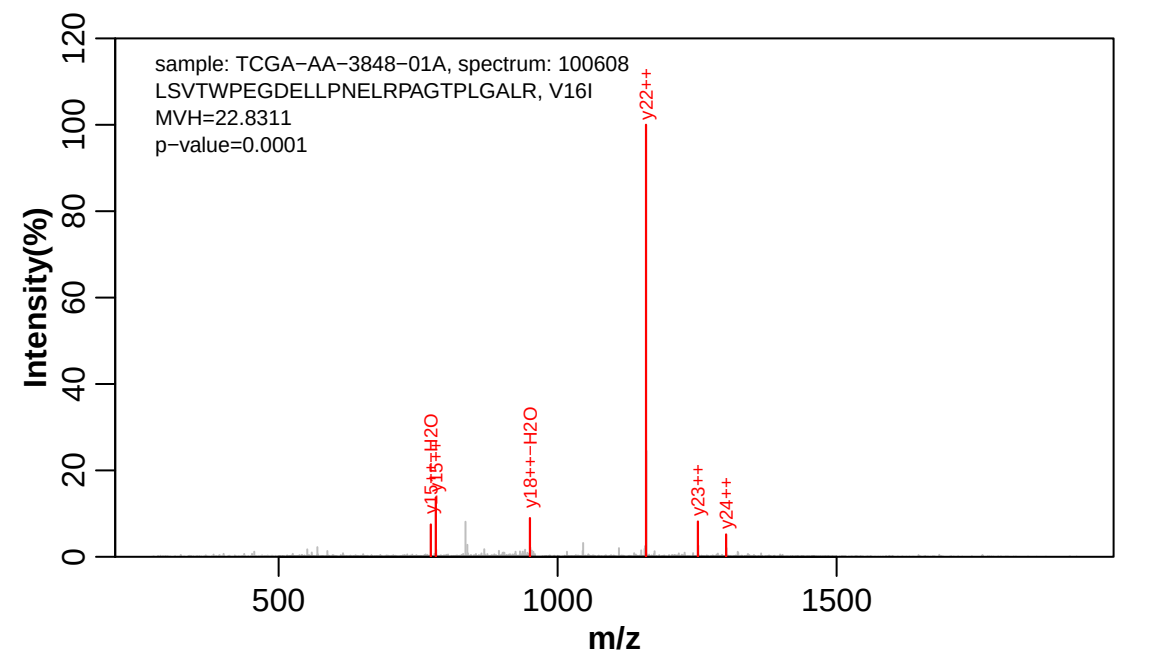

sample: TCGA−AA−3848−01A, spectrum: 94257
LQELTPSSGDPGEHDPASTHK, P4L
MVH=61.3848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y11+++
y11++
y19+++−H2O
y13++
y14++
y15++
y16++−H2O

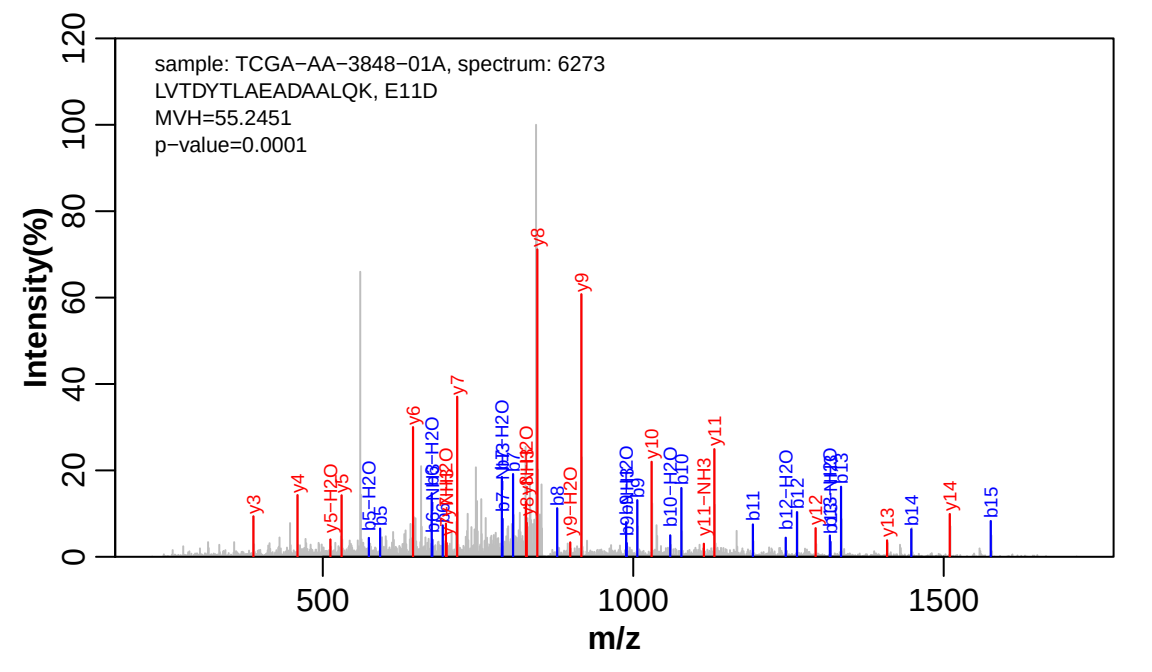

sample: TCGA−AA−3848−01A, spectrum: 129105
LQQQHSEQPPLQPSPVTTR, M17T
MVH=41.5696
p−value=0.0001
Intensity(%)
m/z
y7++
b8++
b9++
y5
y5(M17T)++ − NH3
b5
y6++ b1 2O
b12++ − NH3
b12++ − H2O
y13++ − NH3
y14++ − H2O
y7
y8
b8
y9 − NH3 y9 − H2O
y10

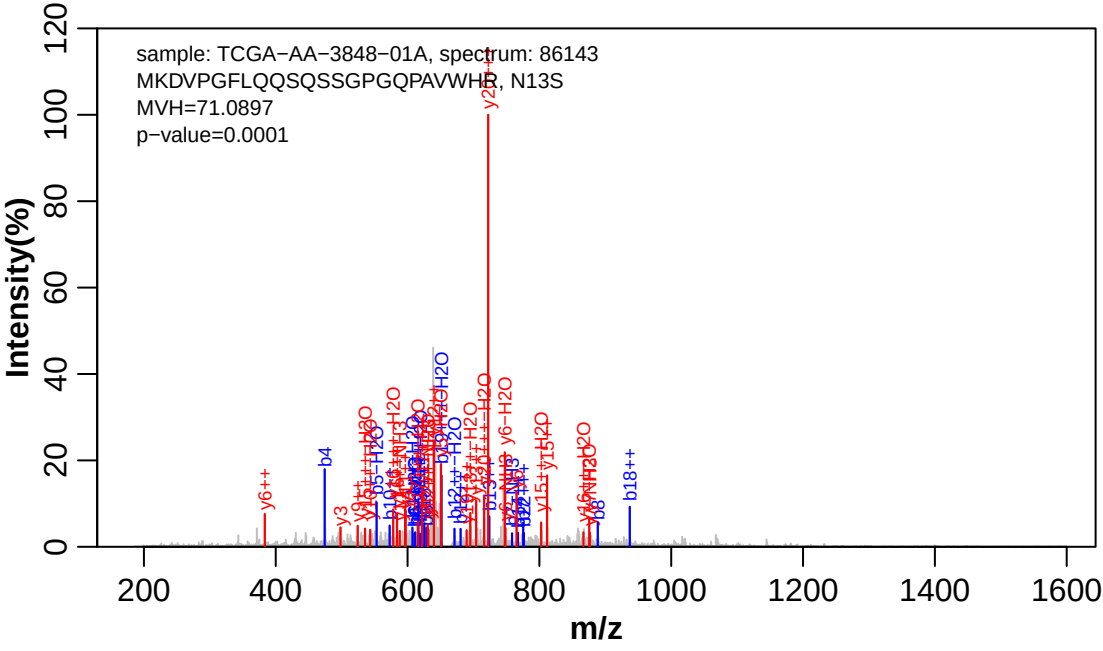

sample: TCGA−AA−3848−01A, spectrum: 134887
LSDLQEALDQALNHVR, Y14H
MVH=59.9752
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y9++
b5
y10++
y11++
y12++−NH3
b13++−H2O
y13++
y14++−NH3
y15++−H2O
y14++
y15++

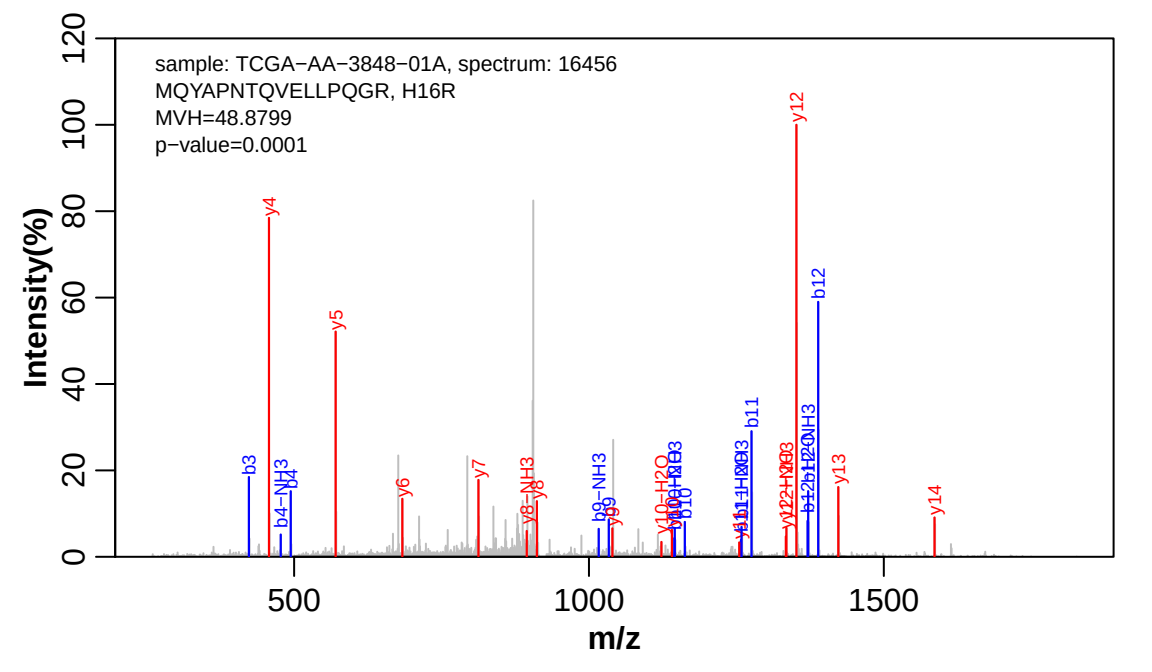

sample: TCGA−AA−3848−01A, spectrum: 49727
LSQELDFVSHHVR, R3Q
MVH=32.0897
p−value=0.0001
Intensity(%)
m/z
y11++
y12++
y10++
y9++
y11++−NH3
y12++−H2O
y5
y1
b2
b3−H2O
b3
y3−NH3
b7++−H2O
b4−NH3
b4++
b6−NH3
b8

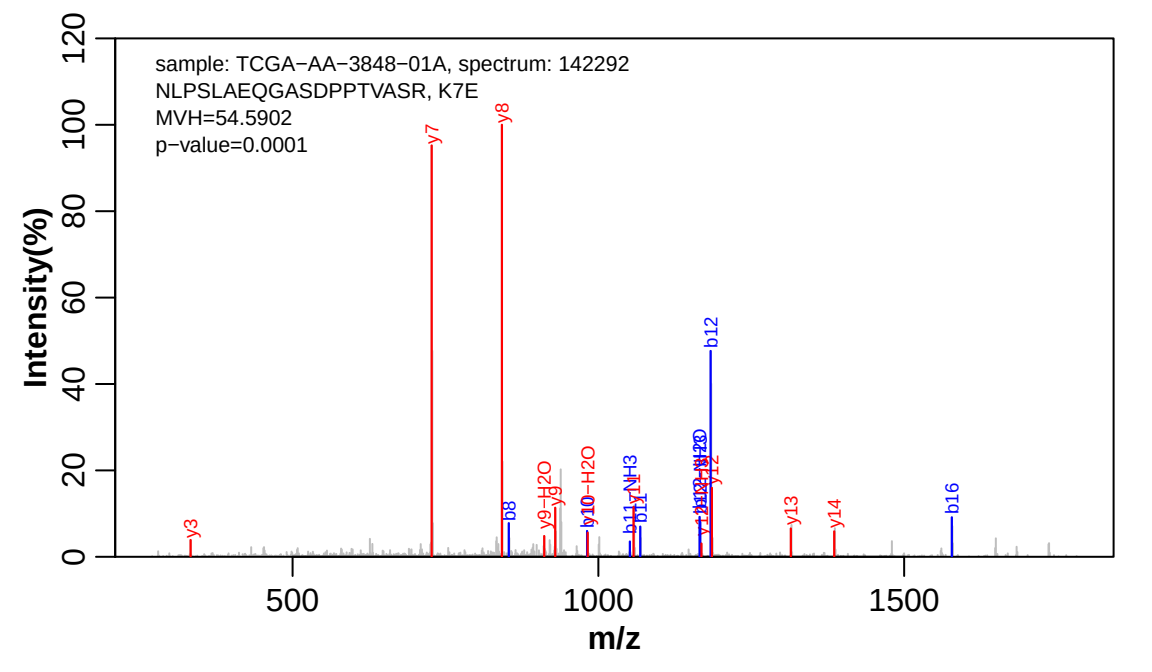

sample: TCGA−AA−3848−01A, spectrum: 87156
LSVFSTLDAPVAPSDK, V7I
MVH=42.2657
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
b5−NH3
b12
y13
b3−H2O
b3
y4−H2O
b4
y8−H2O
b8−H2O
y9−H2O
y11−H2O
y11−NH3
b11

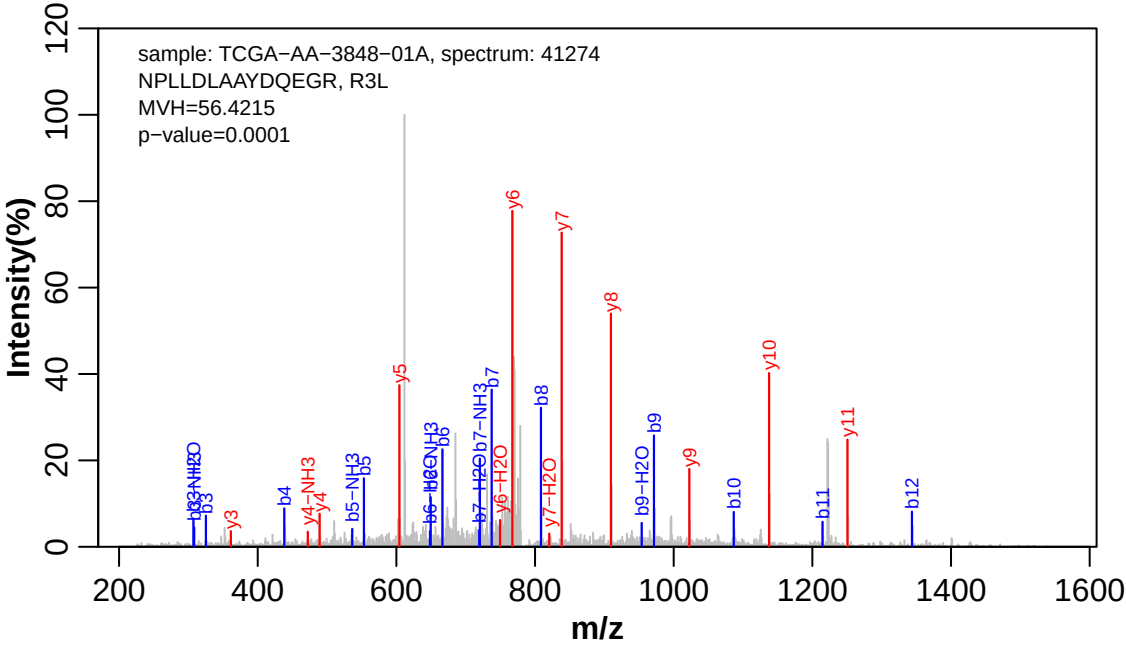

sample: TCGA−AA−3848−01A, spectrum: 100608
LSVTWPEGDELLPNELRPAGTPLGALR, V16I
MVH=22.8311
p−value=0.0001
y22++
y15++H2O
y15++H2O
y18++−H2O
y23++
y24++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

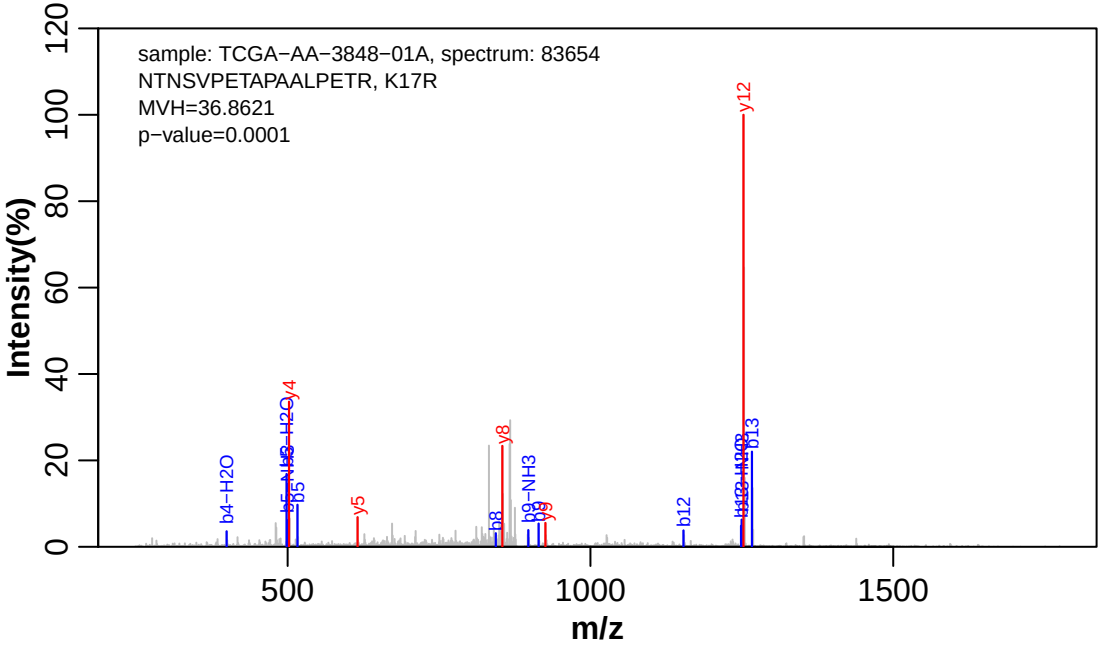

sample: TCGA−AA−3848−01A, spectrum: 6273
LVTDYTLAEADAALQK, E11D
MVH=55.2451
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5−H2O
y5
b5−H2O
b5
y6
y7
y8
y9
y9−H2O
b7
b8
y10
b10−H2O
b10
y11−NH3
y11
b11
b12−H2O
b12
y12
b13
y13
b14
y14
b15

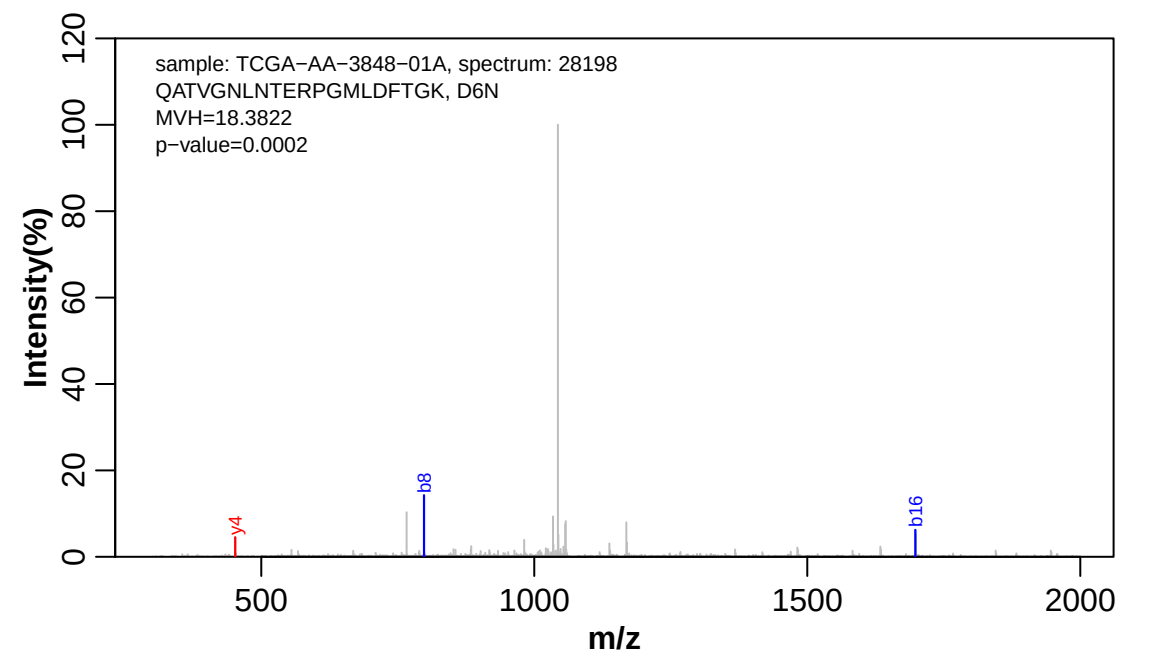

sample: TCGA−AA−3848−01A, spectrum: 86143
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=71.0897
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2++
y6++
b4
y3
b18++
y6−H2O
y15++
y15+
b8

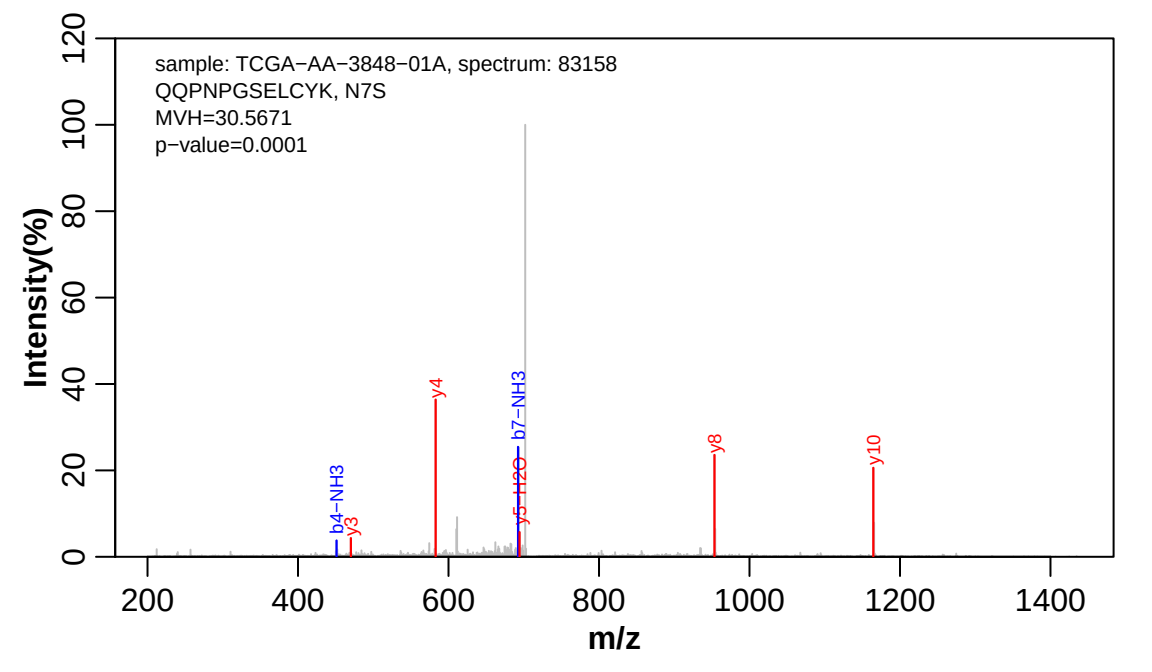

sample: TCGA−AA−3848−01A, spectrum: 16456
MQYAPNTQVELLPQGR, H16R
MVH=48.8799
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y8−NH3
y12
b3
b4
b4−NH3
b8−NH3
b11
b12
b12−NH3
y13
y14

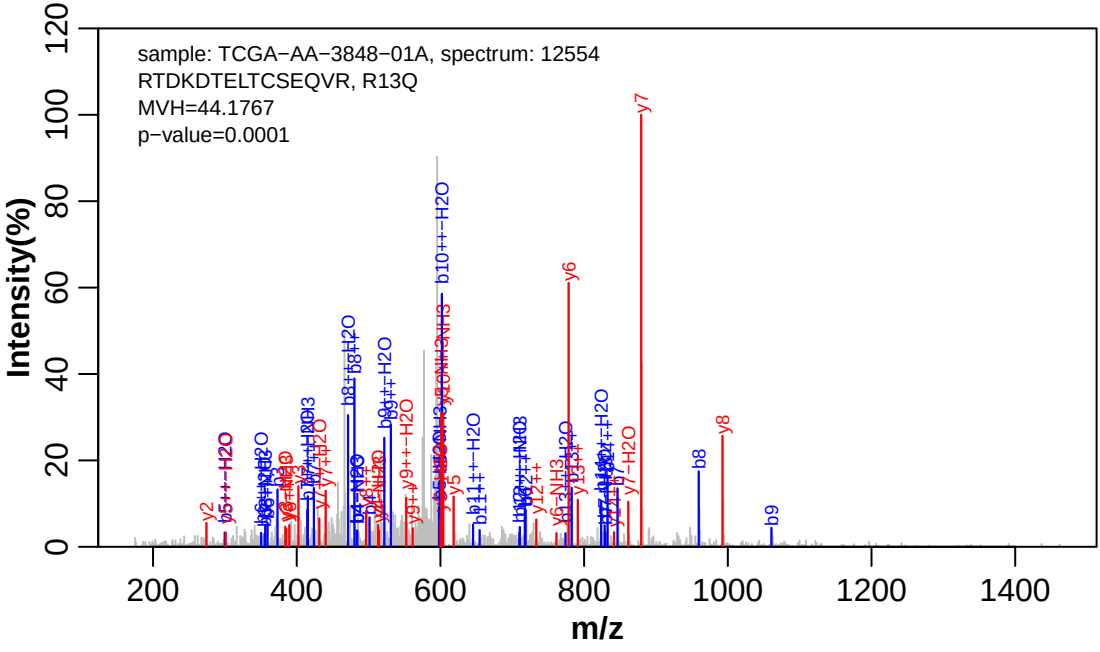

sample: TCGA−AA−3848−01A, spectrum: 142292
NLPSLAEQGASDPPTVASR, K7E
MVH=54.5902
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y8
b12
y3
b8
y9−H2O
y9
b10−H2O
b11−NH3
b11
y12
y13
y14
b16

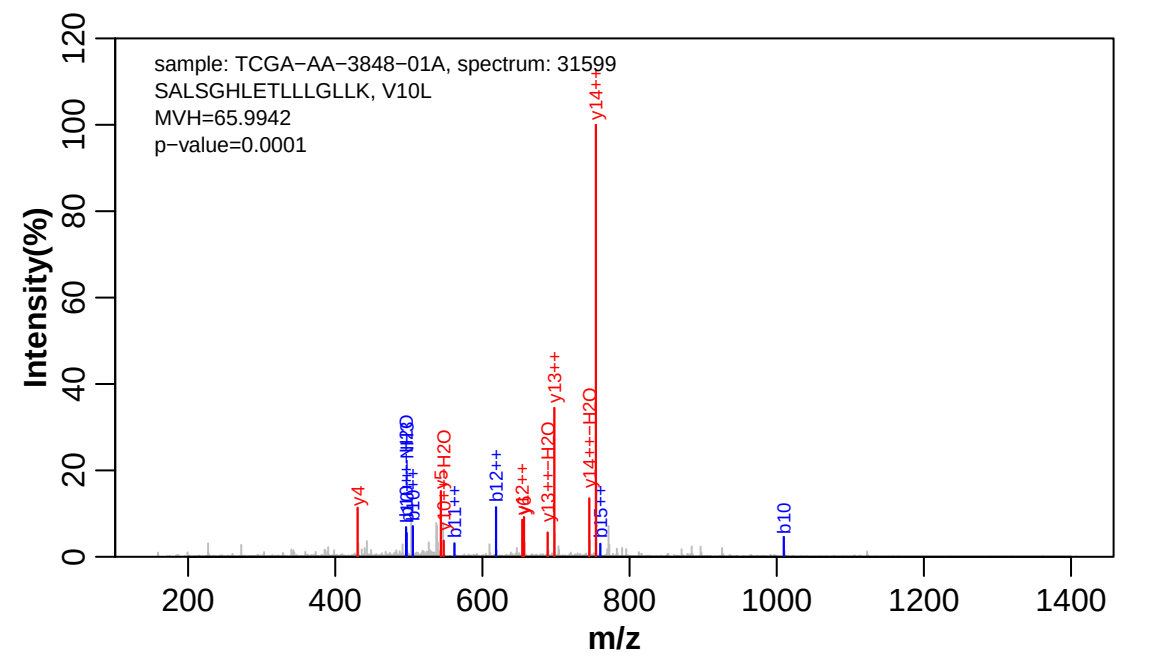

sample: TCGA−AA−3848−01A, spectrum: 41274
NPLLDLAAYDQEGR, R3L
MVH=56.4215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4
y4−NH3
b5−NH3
b5
y5
b6
b7
b7−NH3
y6−H2O
y6
b8
y7−H2O
y7
y8
b9−H2O
b9
y9
y10
b10
b11
y11
b12

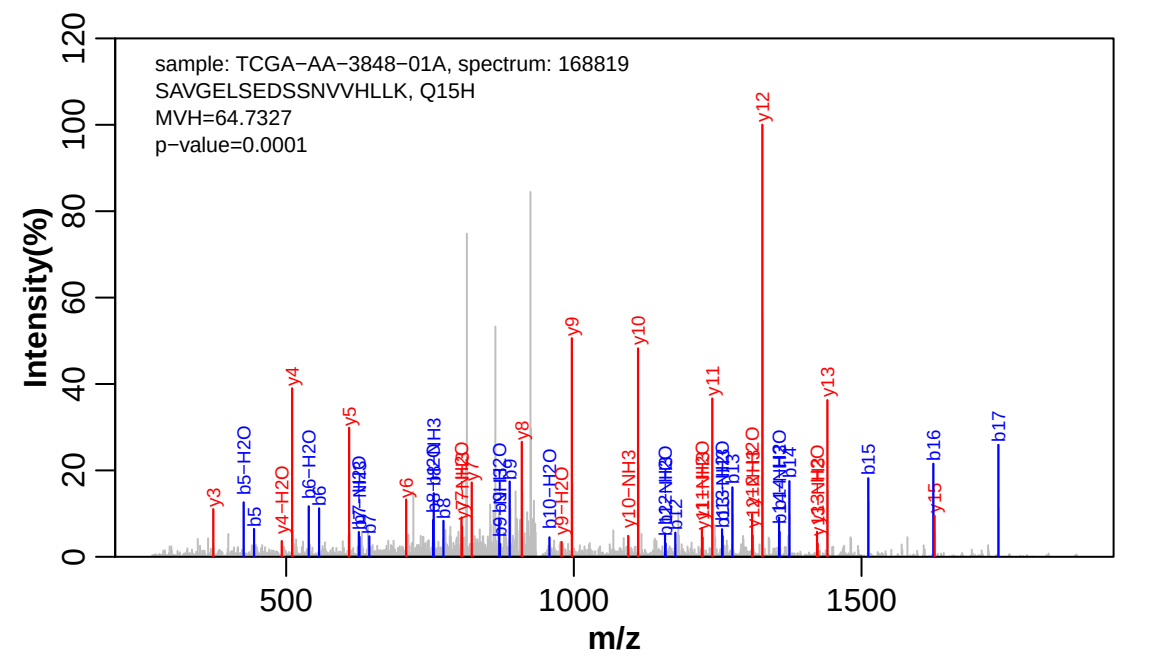

sample: TCGA−AA−3848−01A, spectrum: 83654
NTNSVPETAPAALPETR, K17R
MVH=36.8621
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y4
b4−H2O
b5
y5
b8
b9−NH3
b12
b13

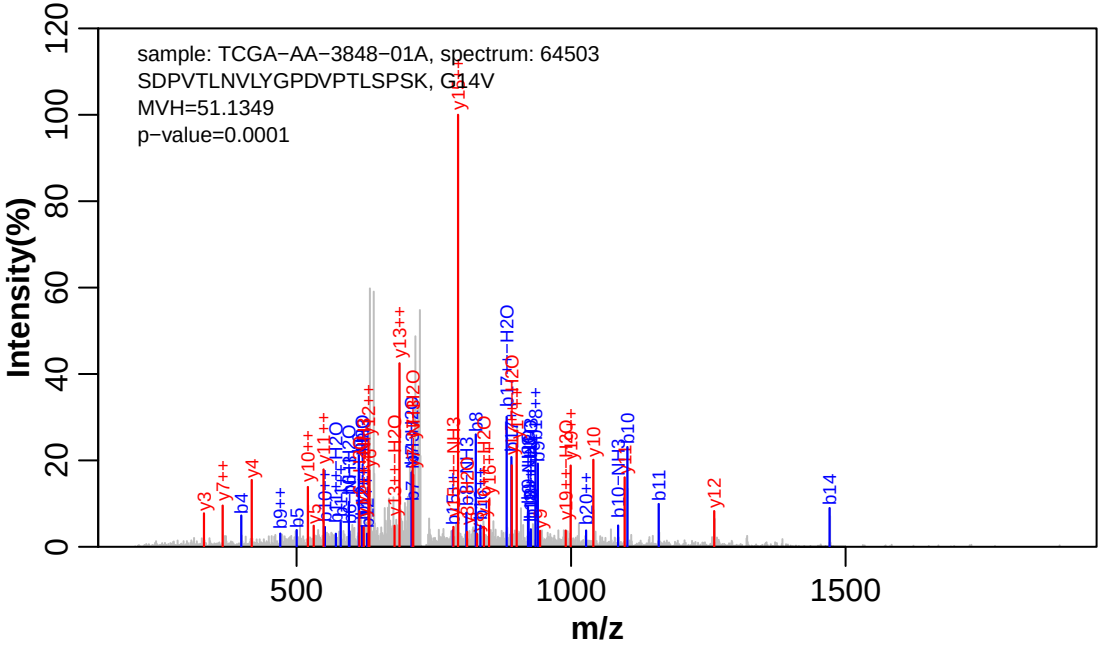

sample: TCGA−AA−3848−01A, spectrum: 28198
QATVGNLNTERPGMLDFTGK, D6N
MVH=18.3822
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
y4
b8
b16
500
1000
1500
2000
m/z

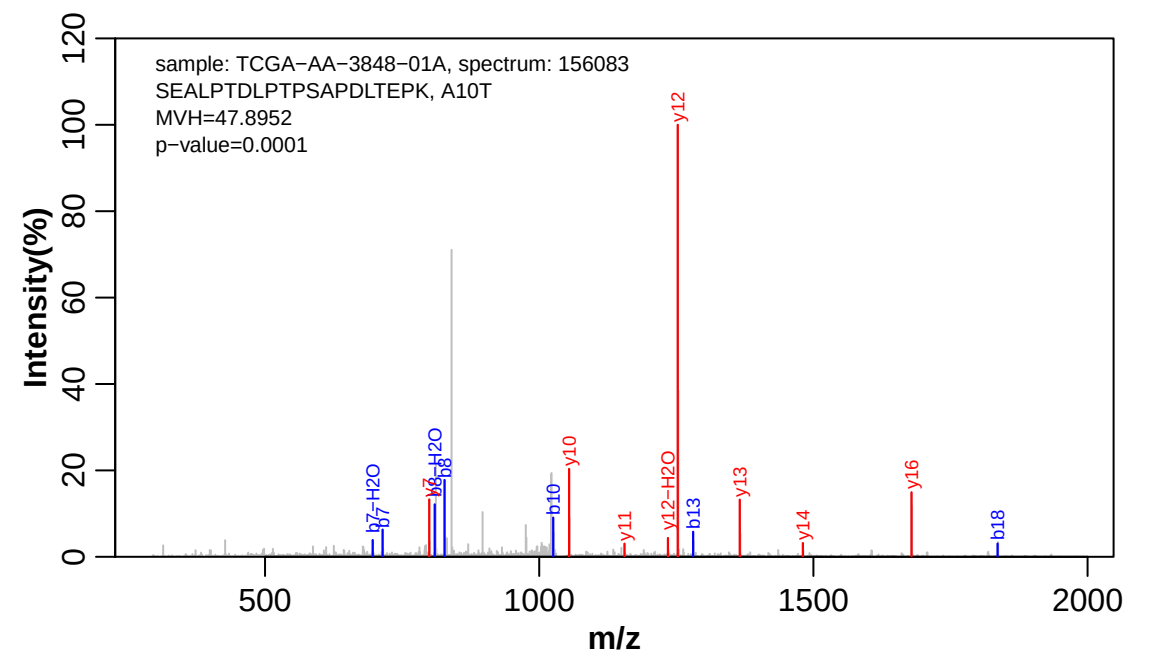

sample: TCGA−AA−3848−01A, spectrum: 83158
QQPNPGSELCYK, N7S
MVH=30.5671
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−NH3
y3
y4
y5−H2O
b7−NH3
y8
y10

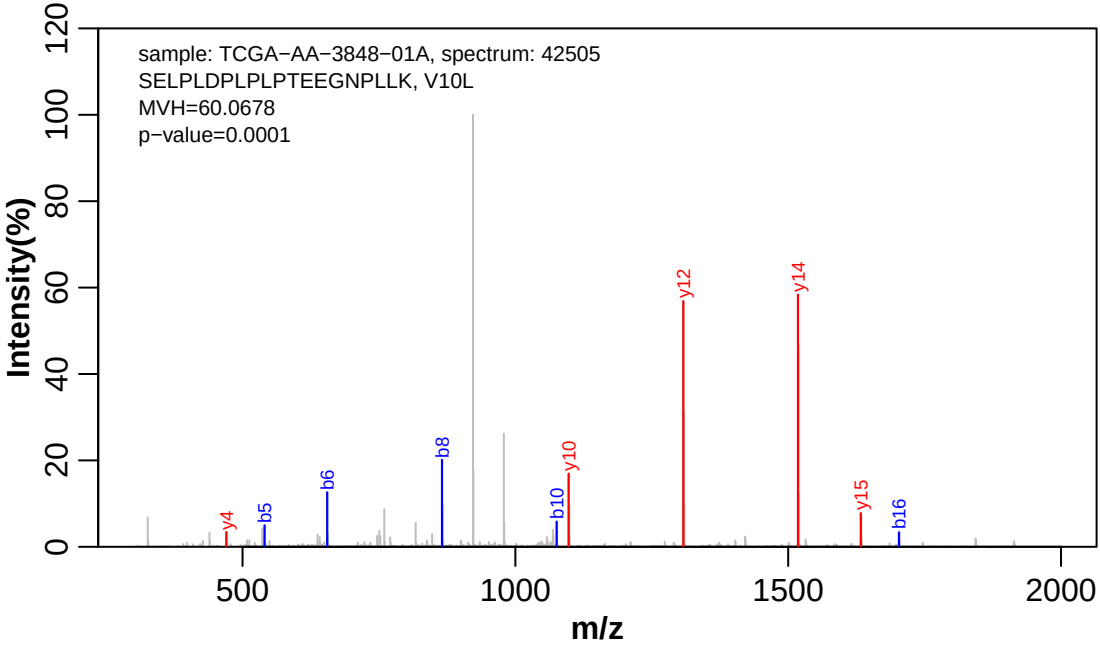

sample: TCGA−AA−3848−01A, spectrum: 12554
RTDKDTELTCSEQVR, R13Q
MVH=44.1767
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y8
b8
b9
b10++−H2O
y7−H2O
y6−NH3
y5++−H2O
y2
b11++−H2O
y9++−H2O
b9++−H2O
b8++−H2O

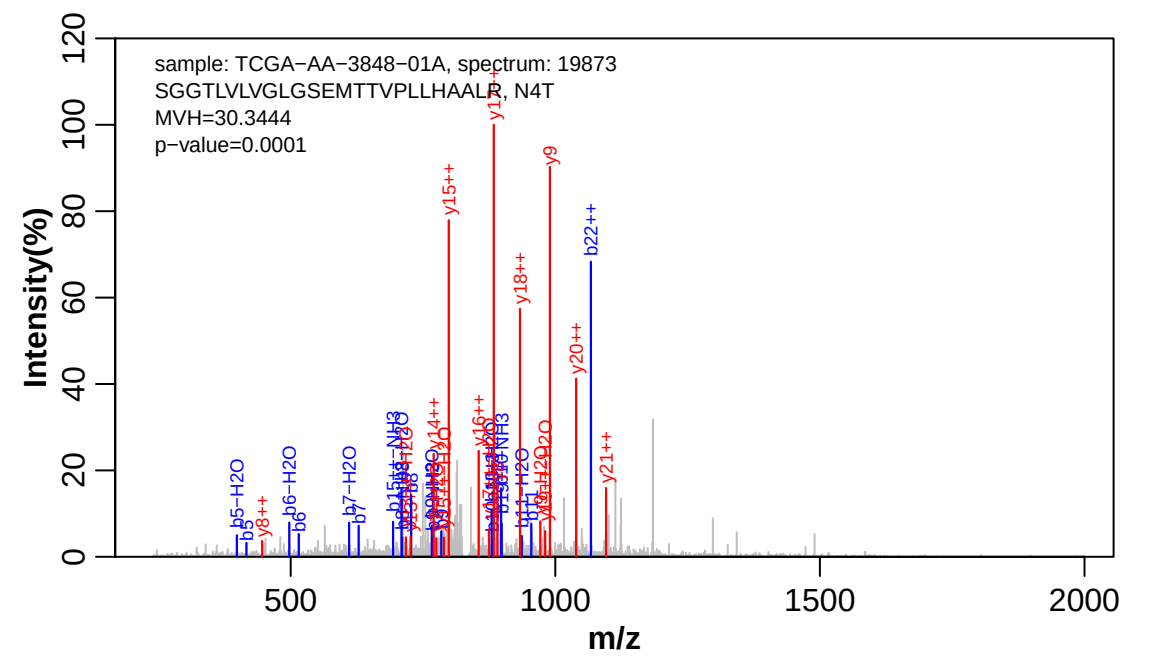

sample: TCGA−AA−3848−01A, spectrum: 31599
SALSGHLETLLLGLLK, V10L
MVH=65.9942
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
y4
b12++
b11++
b10
b15++
y12++
y11++−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

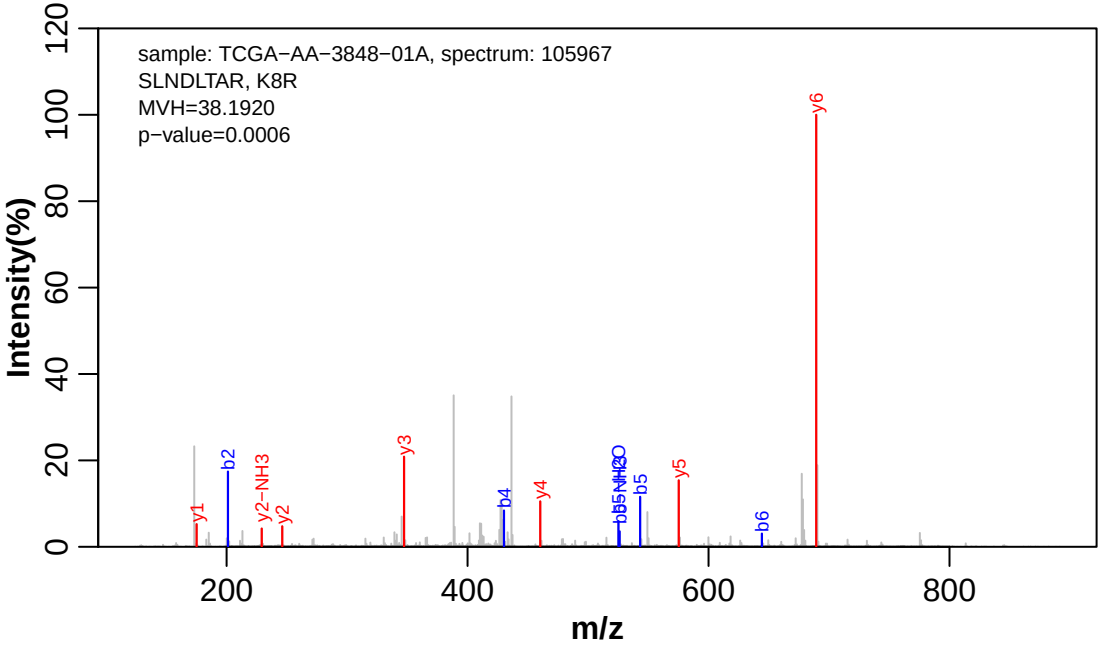

sample: TCGA−AA−3848−01A, spectrum: 168819
SAVGELSEDSSNVVHLLK, Q15H
MVH=64.7327
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y10
y4
y5
y11
y13
b17
b15
b16
y8
y6
y3
b5−H2O
b6−H2O
y4−H2O
y10−NH3
y9−H2O
b10−H2O

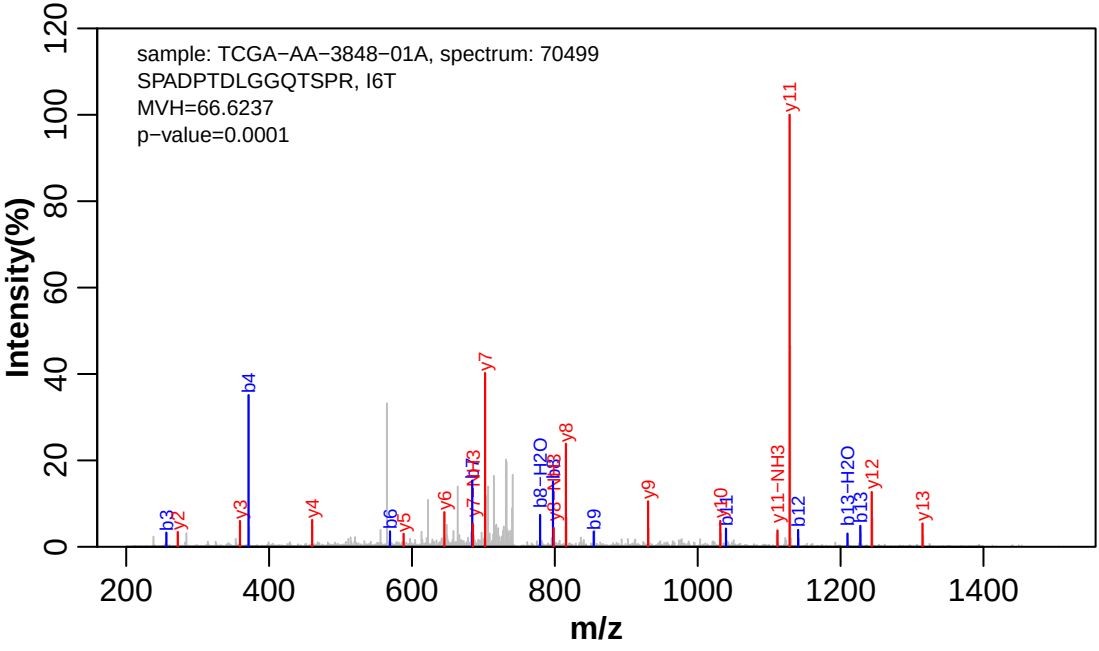

sample: TCGA−AA−3848−01A, spectrum: 64503
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=51.1349
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y7++
b4
y4
b9++
b5
y10++
y5
y11++
y12
y13++
y13++−H2O
y15++
b14
y12
b11
y10
b10
b10−NH3
y10++
b20++
y10
y10−H2O
y16+−H2O
y17++−H2O

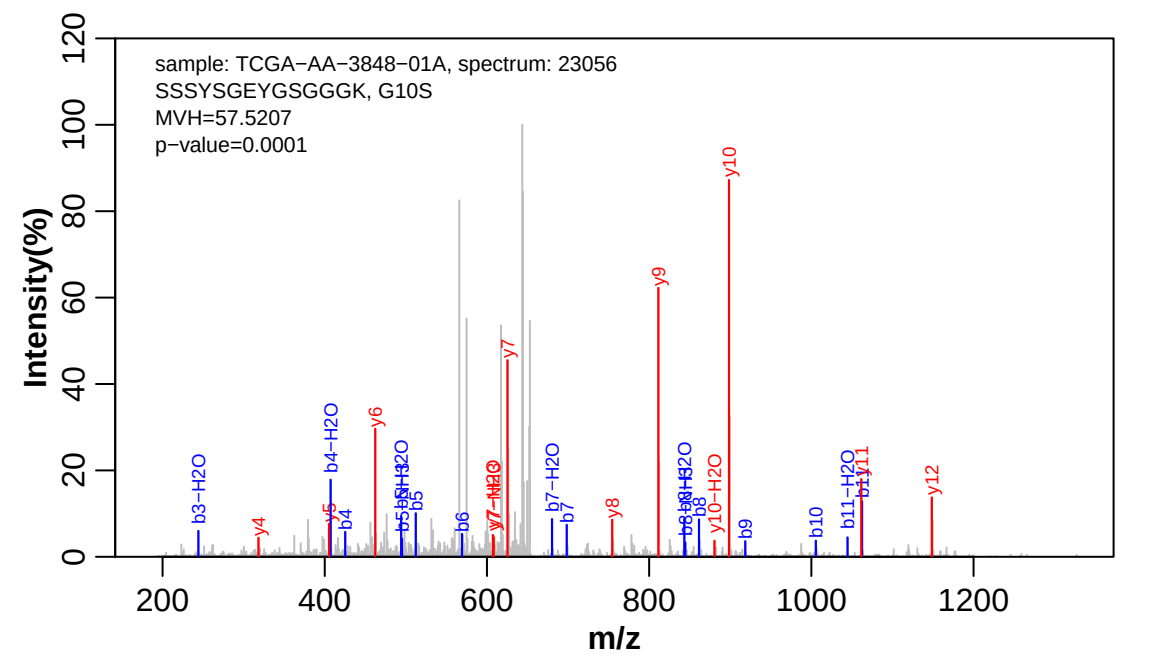

sample: TCGA−AA−3848−01A, spectrum: 156083
SEALPTDLPTPSAPDLTEPK, A10T
MVH=47.8952
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y12−H2O
y13
y16
y14
y11
b13
b10
b18
b7−H2O
b7
b8−H2O
b8

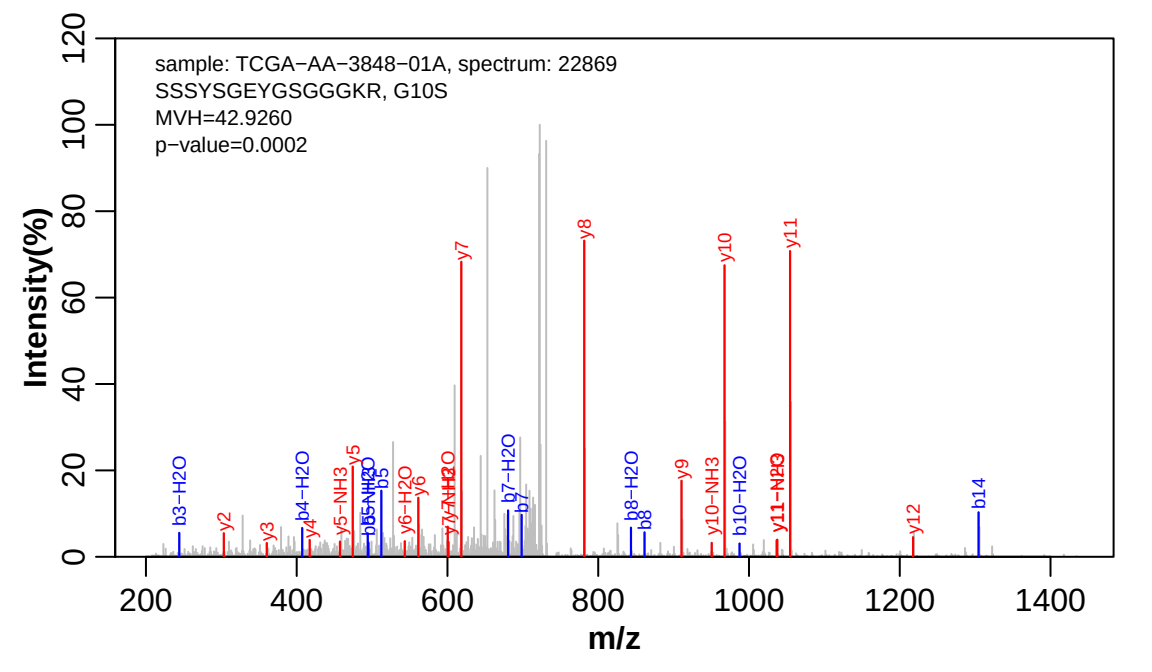

sample: TCGA−AA−3848−01A, spectrum: 42505
SELPLDPLPLPTEEGNPLLK, V10L
MVH=60.0678
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6
b8
b10
y10
y12
y14
y15
b16

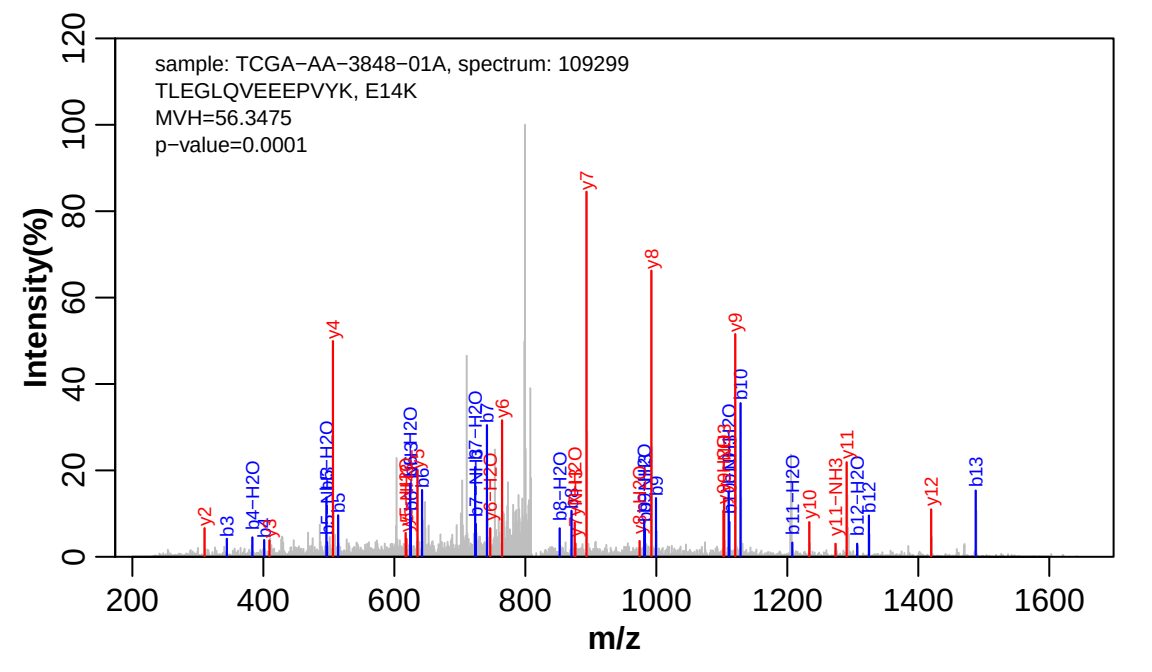

sample: TCGA−AA−3848−01A, spectrum: 19873
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=30.3444
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y9
y15++
b22++
y18++
y20++
y21++
y8++
b5−H2O
b6−H2O
b7−H2O

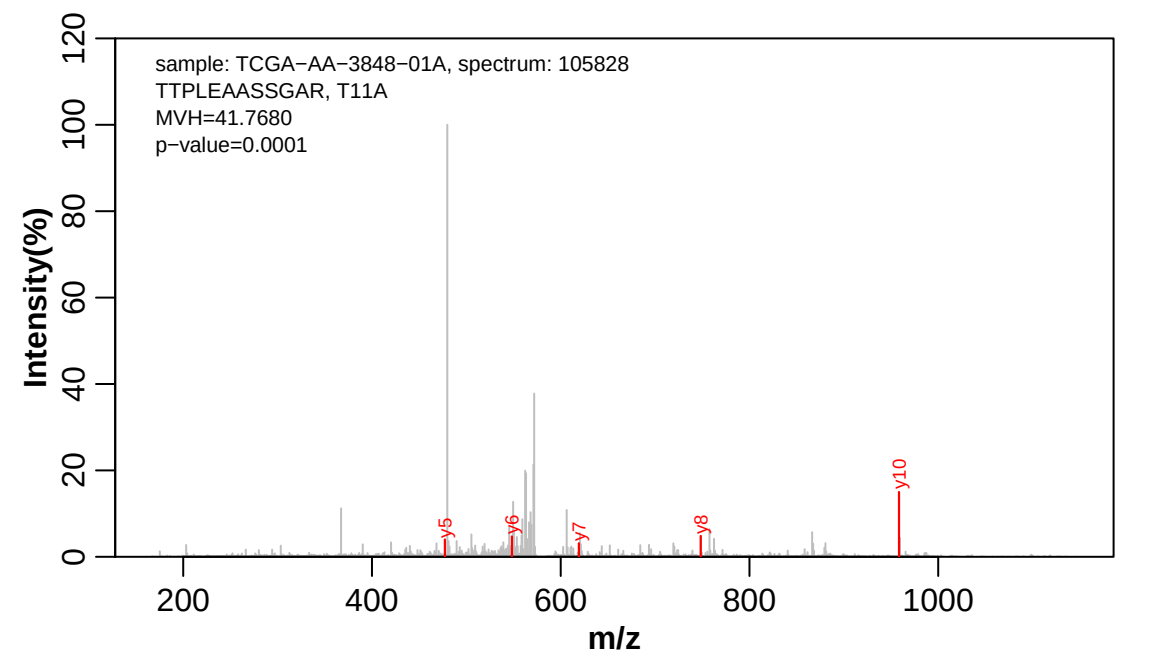

sample: TCGA−AA−3848−01A, spectrum: 105967
SLNDLTAR, K8R
MVH=38.1920
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2−NH3
y2
y3
b4
y4
b5
y5
b6
y6

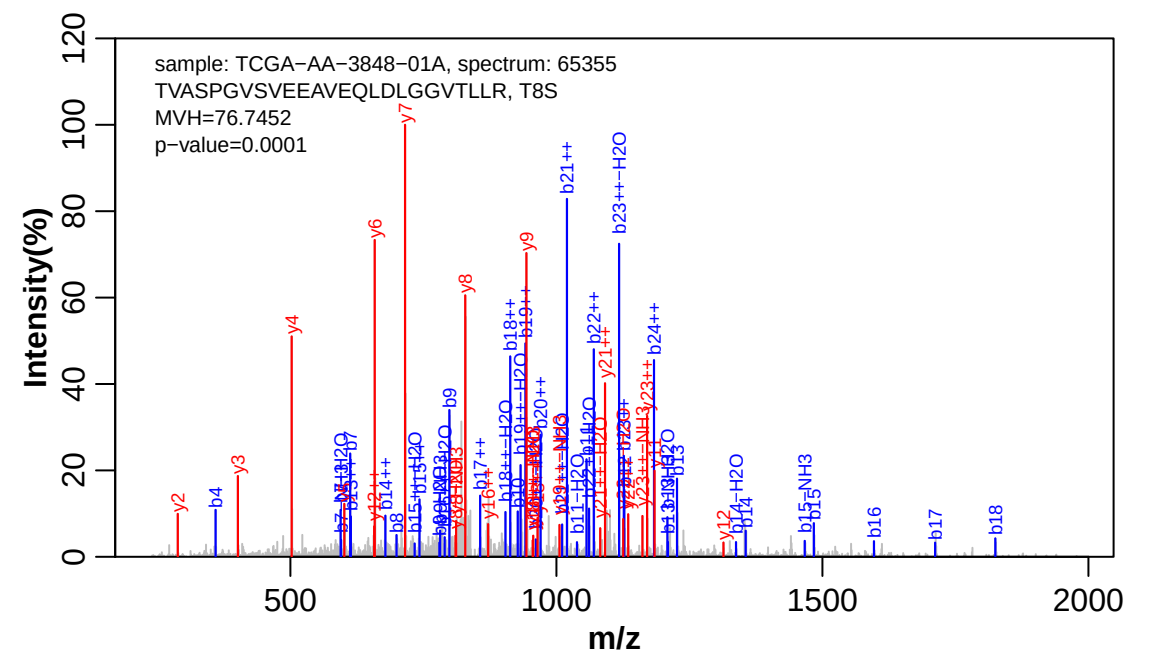

sample: TCGA−AA−3848−01A, spectrum: 70499
SPADPTDLGGQTSPR, I6T
MVH=66.6237
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
y7−NH3
y7
b8−H2O
y8
b9
y9
b10
y11−NH3
y11
b12
b13−H2O
b13
y12
y13

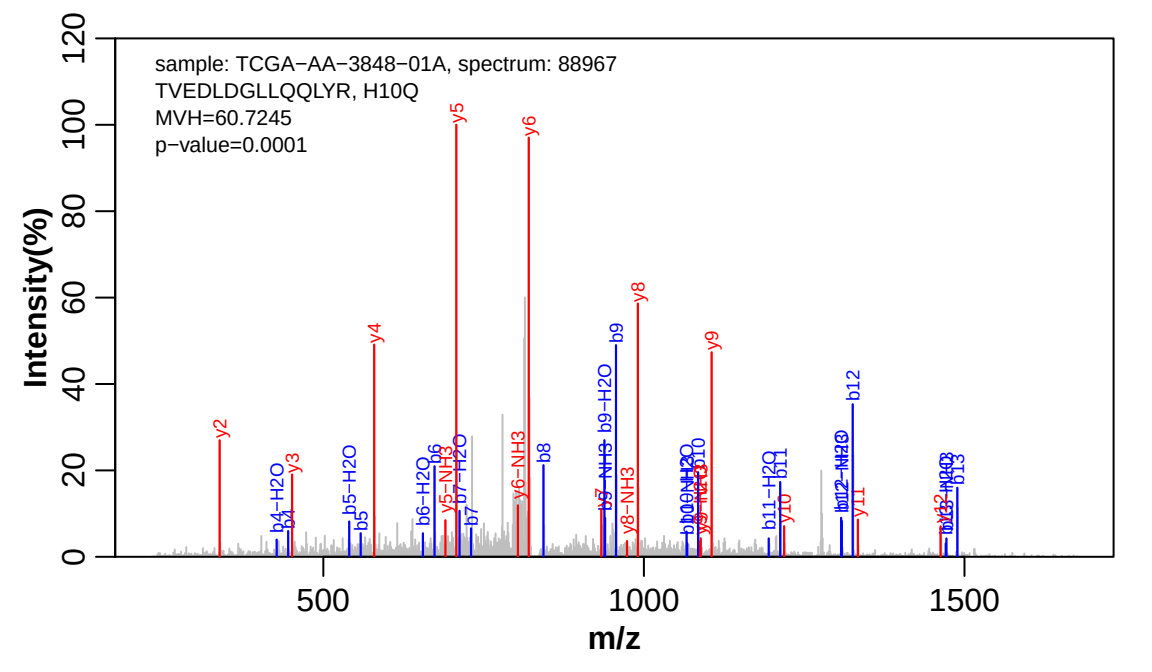

sample: TCGA−AA−3848−01A, spectrum: 23056
SSSYSGEYGSGGGK, G10S
MVH=57.5207
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4
b4−H2O
y6
b5
b5−H2O
b6
y7
y7−H2O
b7
b7−H2O
y8
y9
b8
b8−H2O
y10−H2O
y10
b9
b10
b11−H2O
b11
y11
y12

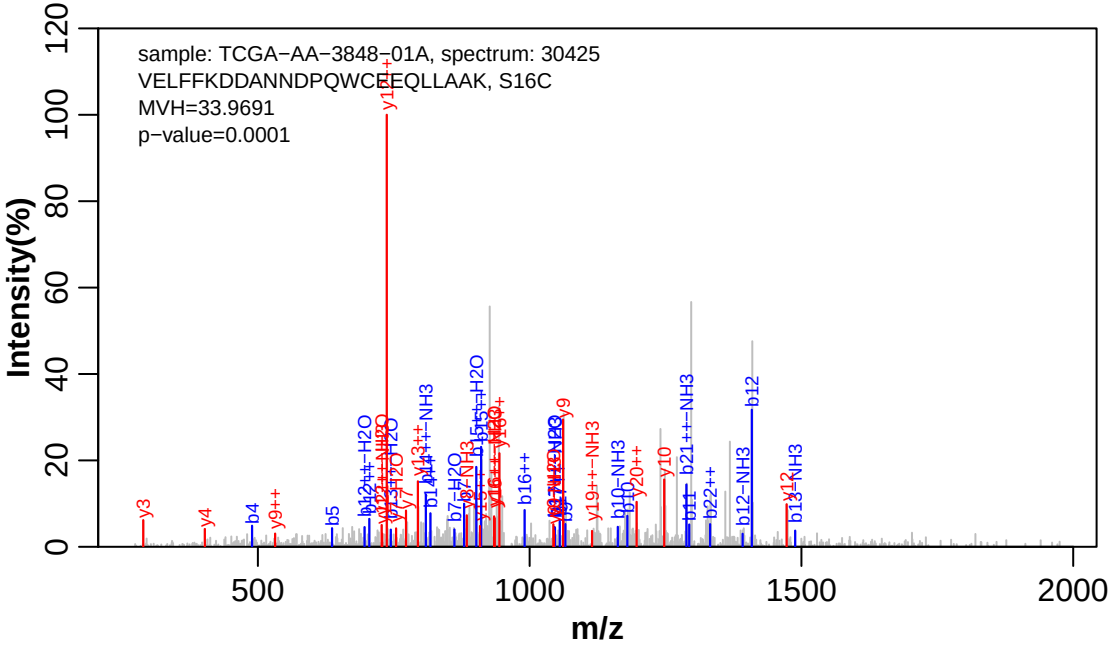

sample: TCGA−AA−3848−01A, spectrum: 22869
SSSYSGEYGSGGGKR, G10S
MVH=42.9260
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2
y3
b4−H2O
y4
y5−NH3
y5
b5−NH3
b5
b5−H2O
y6−H2O
y6
y7−NH3
y7
y7−H2O
b7−H2O
b7
y8
b8−H2O
b8
y9
y10−NH3
y10
b10−H2O
y11−NH3
y11
y12
b14

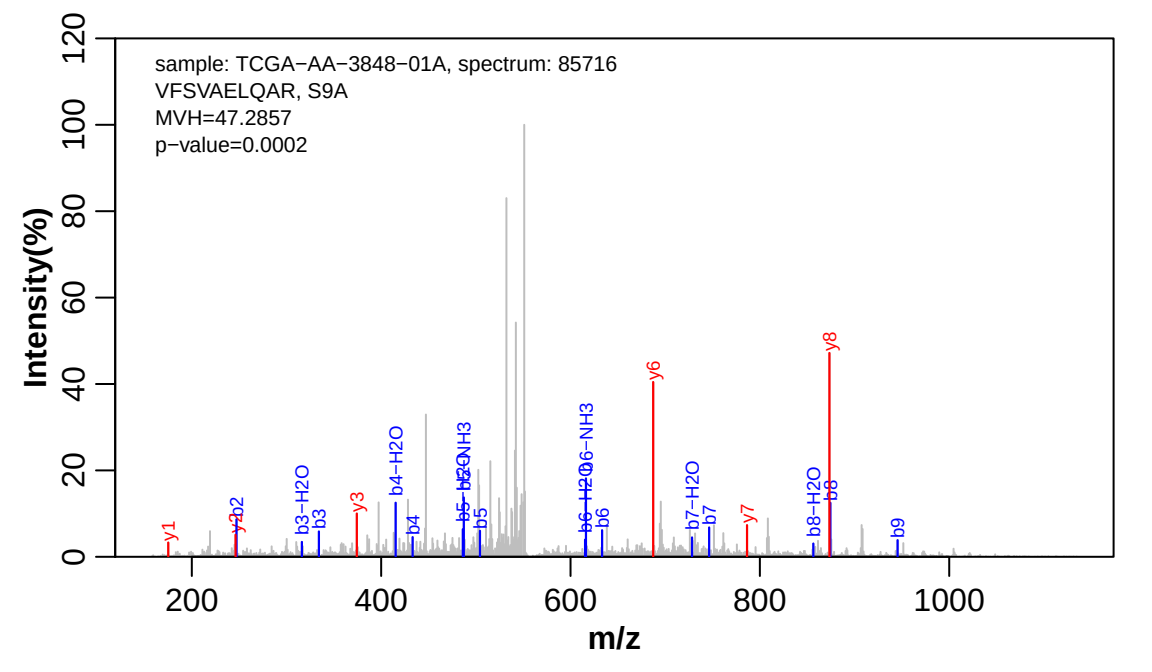

sample: TCGA−AA−3848−01A, spectrum: 109299
TLEGLQVEEEPVYK, E14K
MVH=56.3475
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
y3
y4
b5
b6−H2O
b7−NH3
b7−H2O
b7
y6
y6−H2O
y7
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O
b11−H2O
y10
y11−NH3
y11
b12−H2O
b12
y12
b13

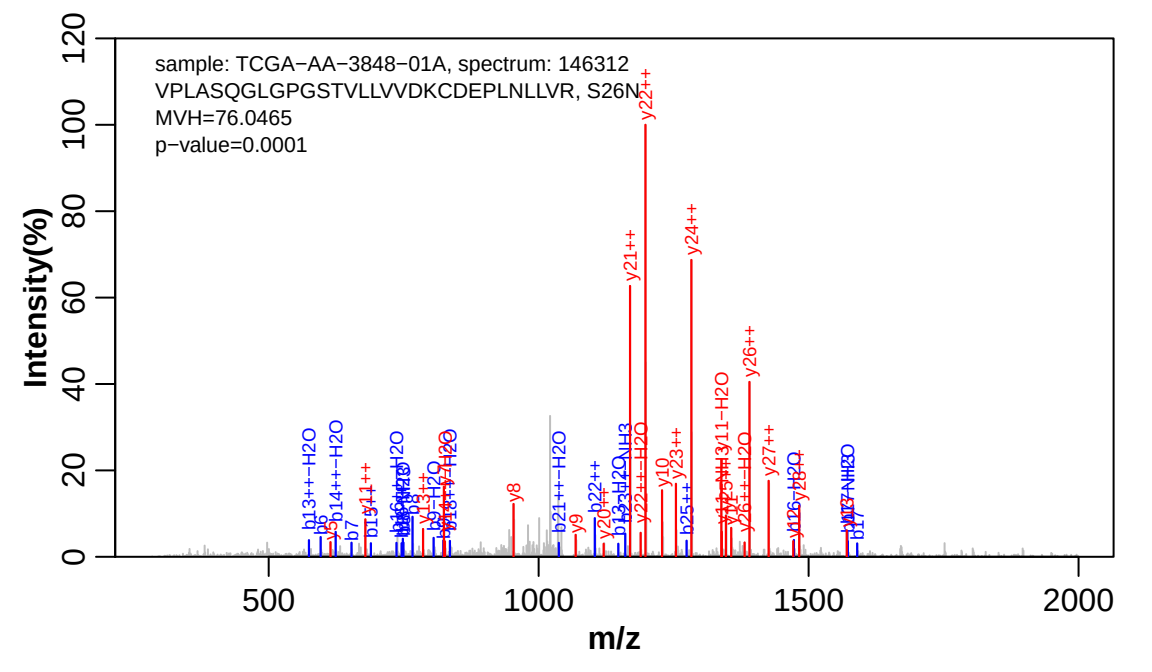

sample: TCGA−AA−3848−01A, spectrum: 105828
TTPLEAASSGAR, T11A
MVH=41.7680
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

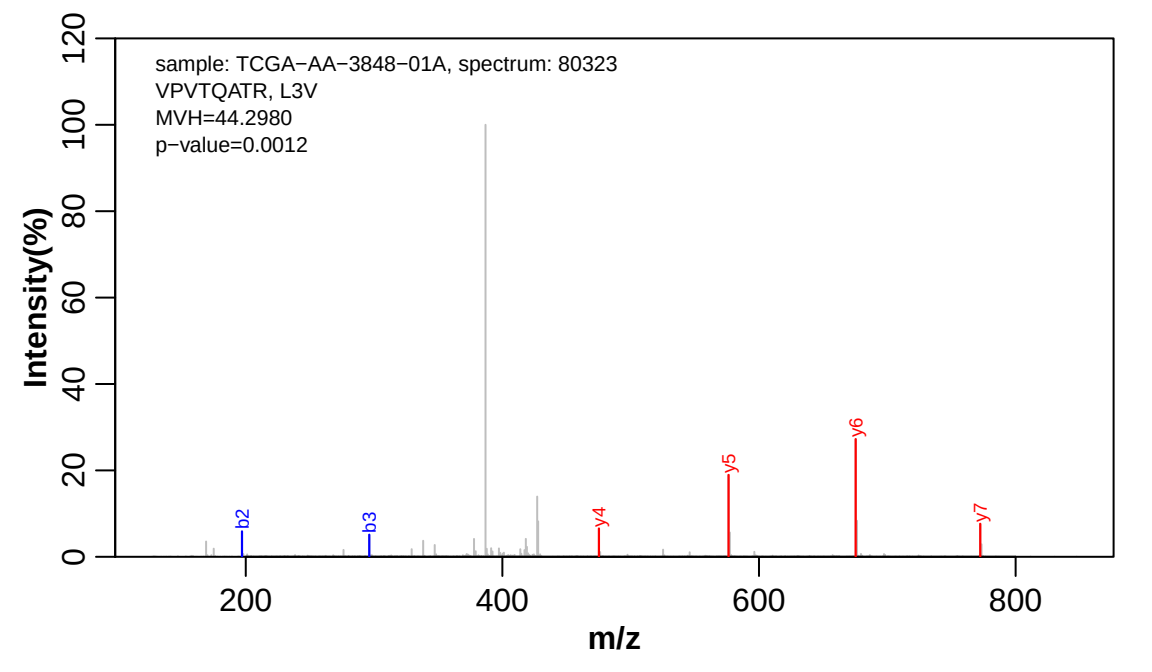

sample: TCGA−AA−3848−01A, spectrum: 65355
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=76.7452
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y4
y9
y8
b21++
b23++−H2O
b22++
b24++
y3
b4
y2
b18
b17
b16
b15−NH3
b14−H2O

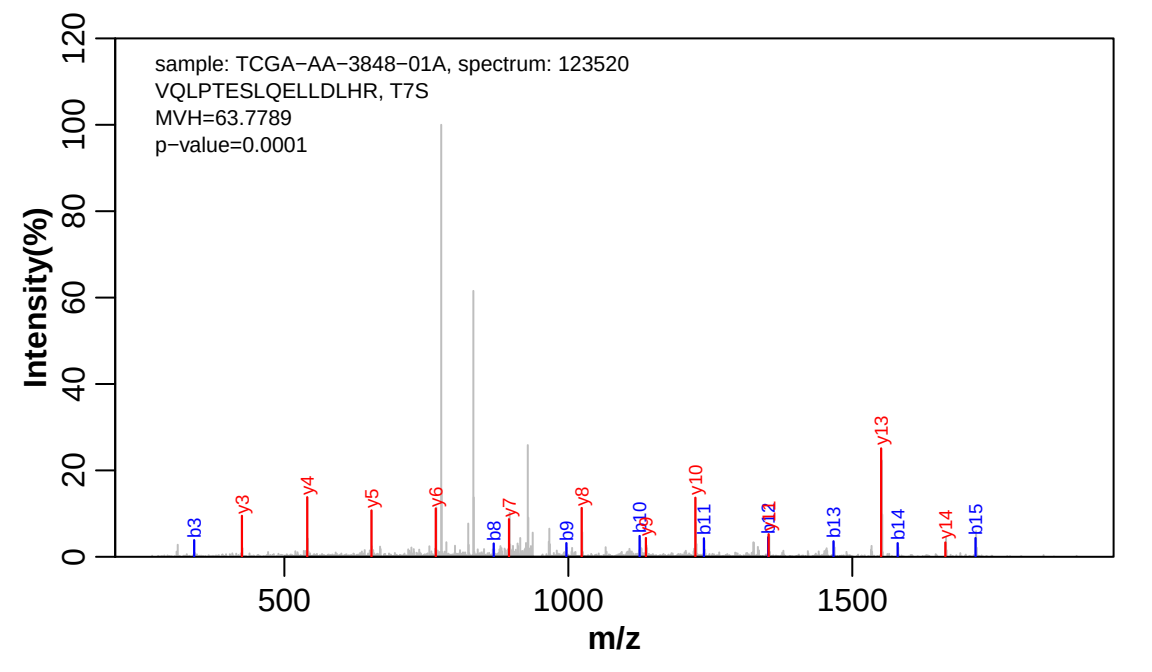

sample: TCGA−AA−3848−01A, spectrum: 88967
TVEDLDGLLQQLYR, H10Q
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y5
y6
y8
y9
y10
y11
b4−H2O
b4
b5−H2O
b5
b6−H2O
b6
y5−NH3
b7−H2O
b7
y6−NH3
b8
b9
b9−H2O
b9−NH3
y8−NH3
b11−H2O
b11
b12
b12−NH3
b13

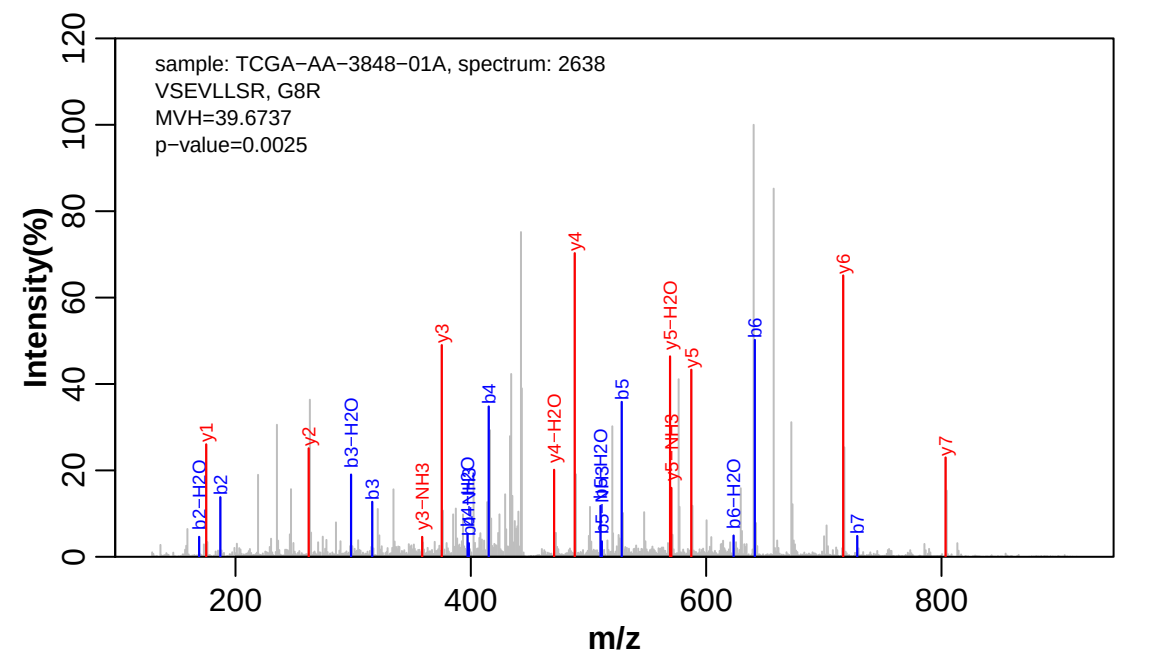

sample: TCGA−AA−3848−01A, spectrum: 30425
VELFFKDDANNDPQWCEEQLLAAK, S16C
MVH=33.9691
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b4
y9++
b5
y10++
b16++
y19++−NH3
b21++−NH3
b22++
b12
b12−NH3
b13−NH3

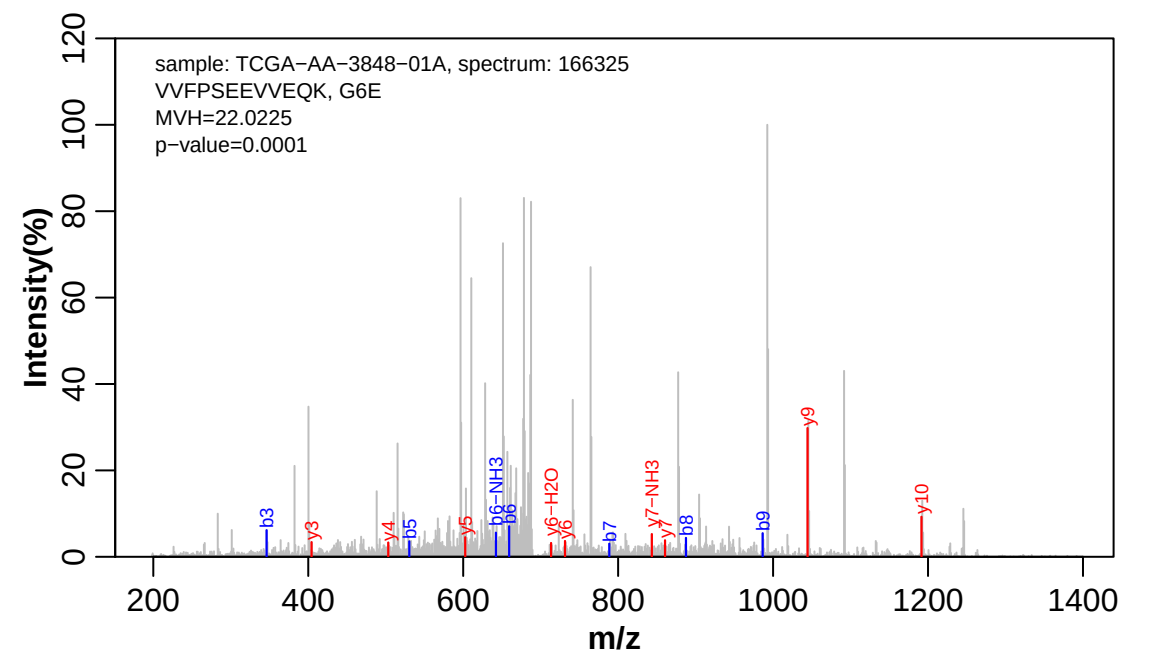

sample: TCGA−AA−3848−01A, spectrum: 85716
VFSVAELQAR, S9A
MVH=47.2857
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
y2
b2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O−NH3
b5
b6−H2O−NH3
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9

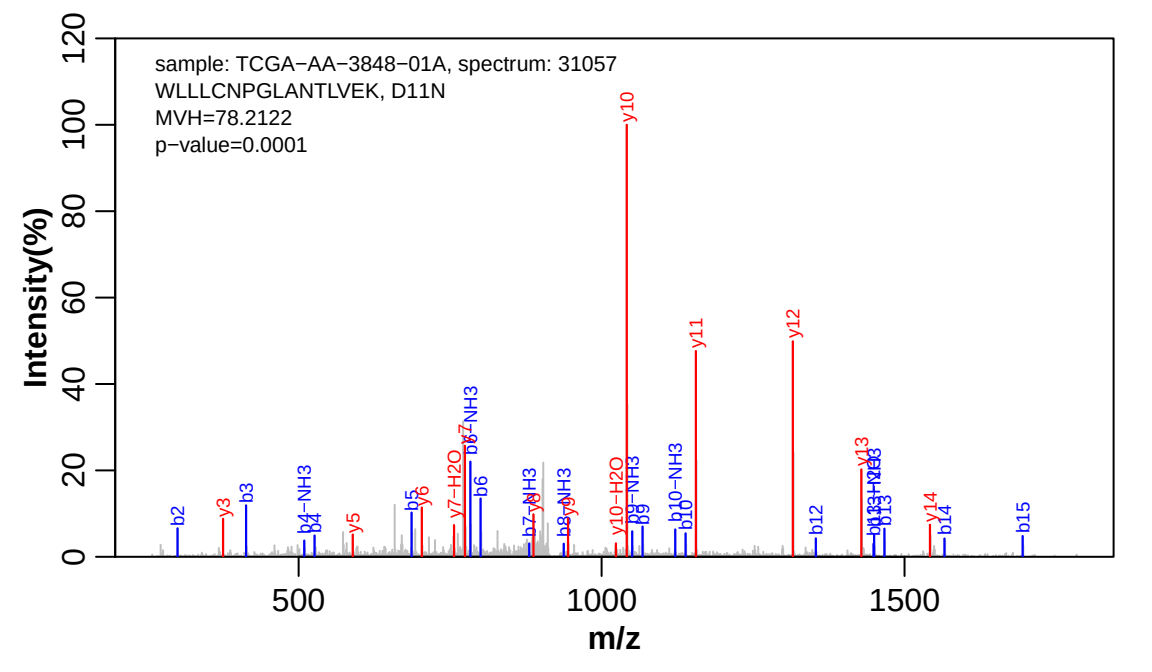

sample: TCGA−AA−3848−01A, spectrum: 146312
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=76.0465
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y26++
y27++
y8
b21++−H2O
y9
y10
y23++
b25++
b13++−H2O
b14++−H2O
b7
b11++
b17

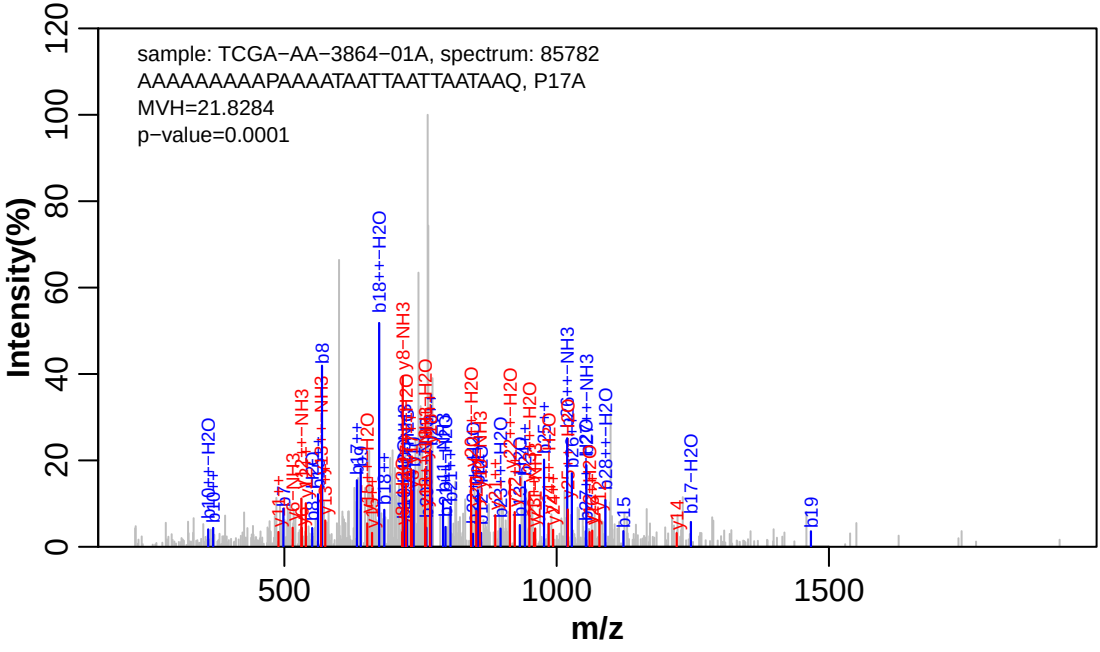

sample: TCGA−AA−3848−01A, spectrum: 80323
VPVTQATR, L3V
MVH=44.2980
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

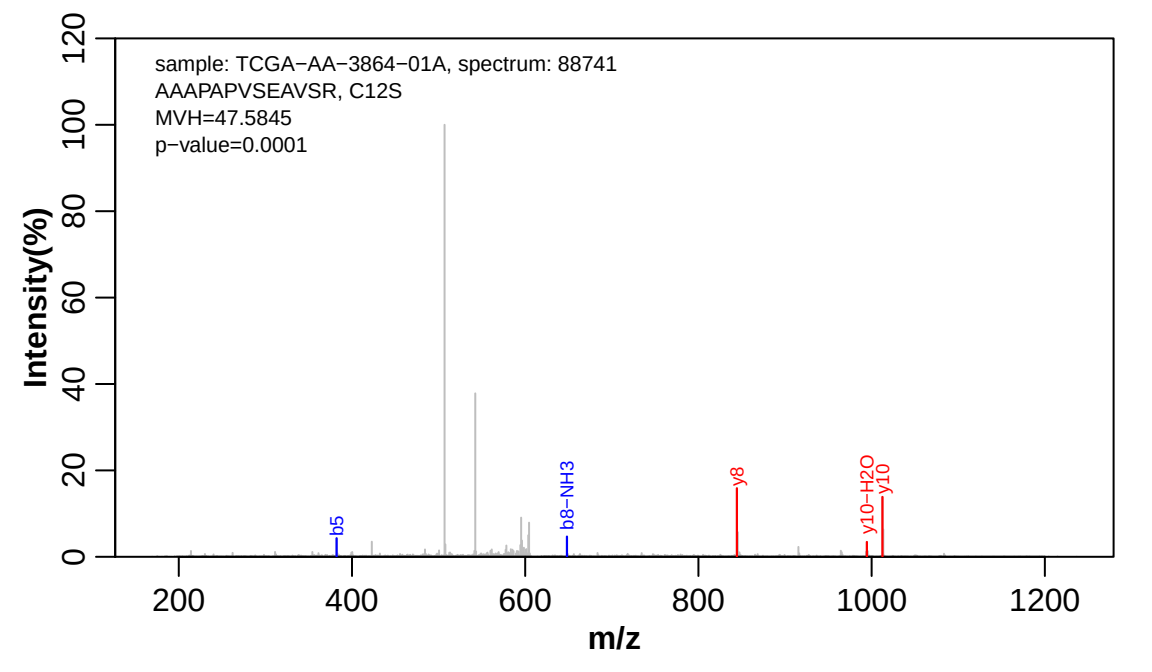

sample: TCGA−AA−3848−01A, spectrum: 123520
VQLPTESLQELLDLHR, T7S
MVH=63.7789
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y3
y4
y5
y6
b8
y7
b9
y8
b10
y9
y10
b11
y12
b13
y13
b14
y14
b15

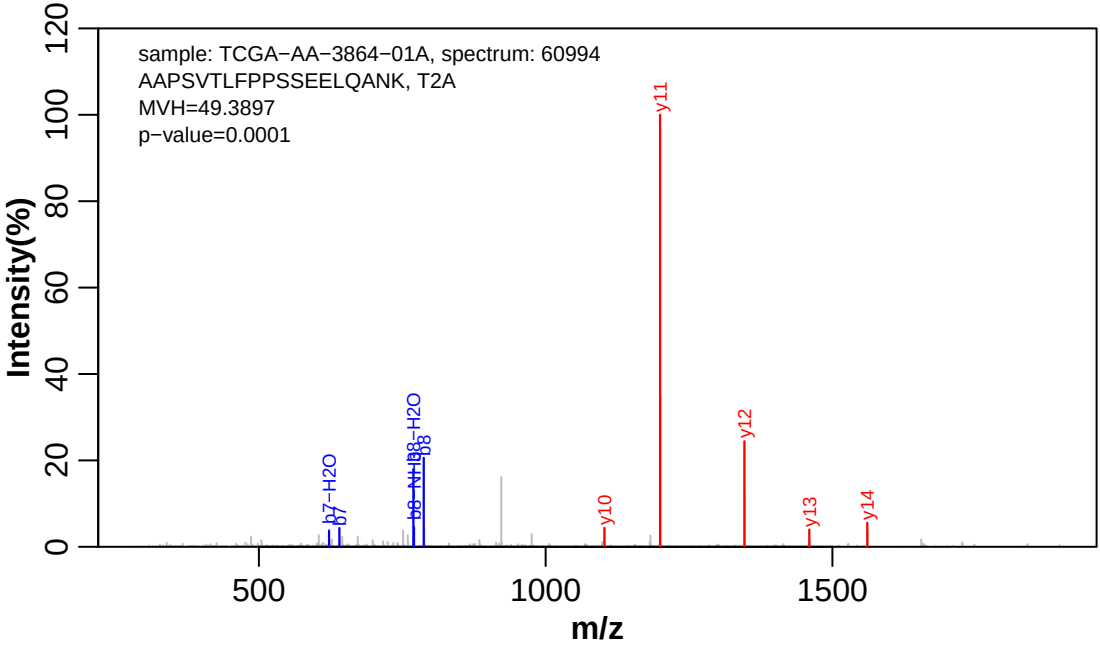

sample: TCGA−AA−3848−01A, spectrum: 2638
VSEVLLSR, G8R
MVH=39.6737
p−value=0.0025
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2−H2O
b2
y2
b3−H2O
b3
y3
y3−NH3
b4
y4
y4−H2O
b5
y5−H2O
y5
y5−NH3
b6
b6−H2O
y6
b7
y7

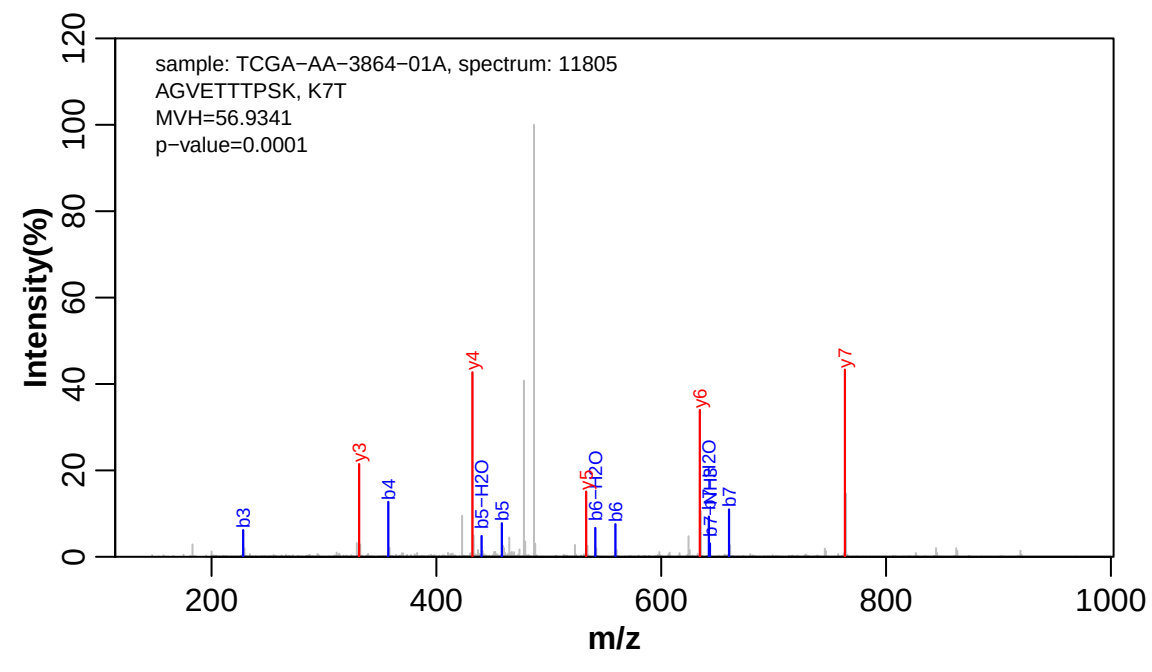

sample: TCGA−AA−3848−01A, spectrum: 166325
VVFPSEEVVEQK, G6E
MVH=22.0225
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b3
y3
y4
b5
y5
b6−NH3
b6
y6−H2O
y6
b7
y7−NH3
y7
b8
b9
y9
y10

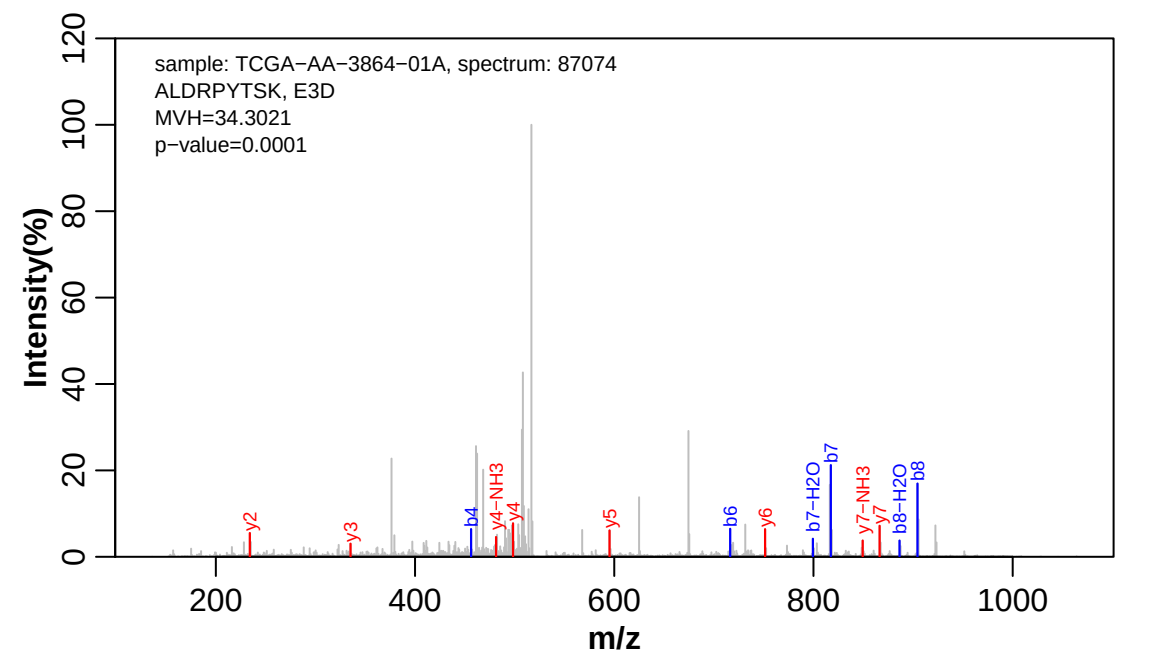

sample: TCGA−AA−3848−01A, spectrum: 31057
WLLLCNPGLANTLVEK, D11N
MVH=78.2122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
b4−NH3
b4
y5
b5
y6
y7−H2O
b6−NH3
b6
b7−NH3
y8
b8−NH3
y9
y10−H2O
b9−NH3
b9
b10−NH3
b10
y10
y11
b12
y12
y13
b13
y14
b14
b15

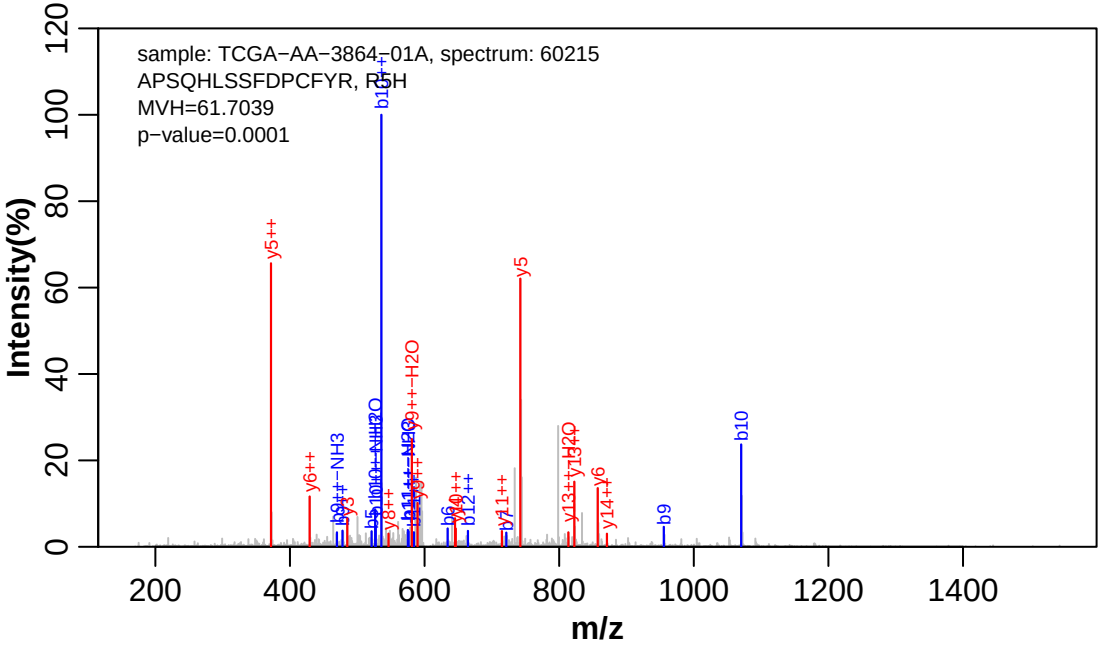

sample: TCGA−AA−3864−01A, spectrum: 85782
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=21.8284
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b10++−H2O
b18++−H2O
y8−NH3
b8
b18++
b17++
b19
b15
y14
b17−H2O

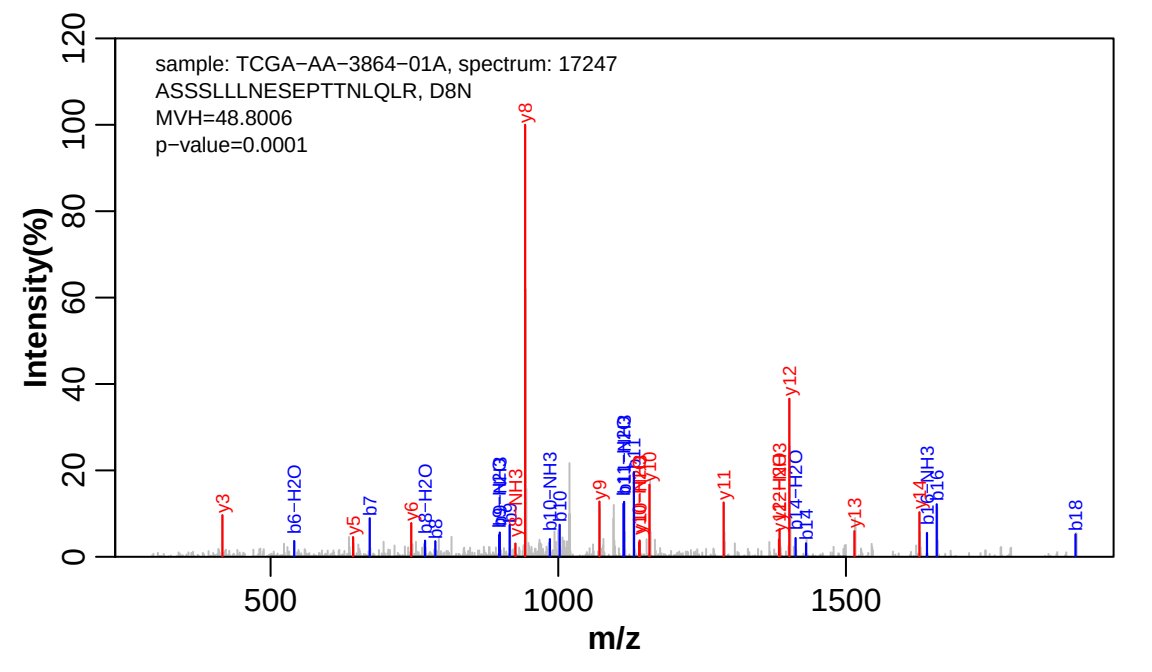

sample: TCGA−AA−3864−01A, spectrum: 88741
AAAPAPVSEAVSR, C12S
MVH=47.5845
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b8−NH3
y8
y10−H2O
y10

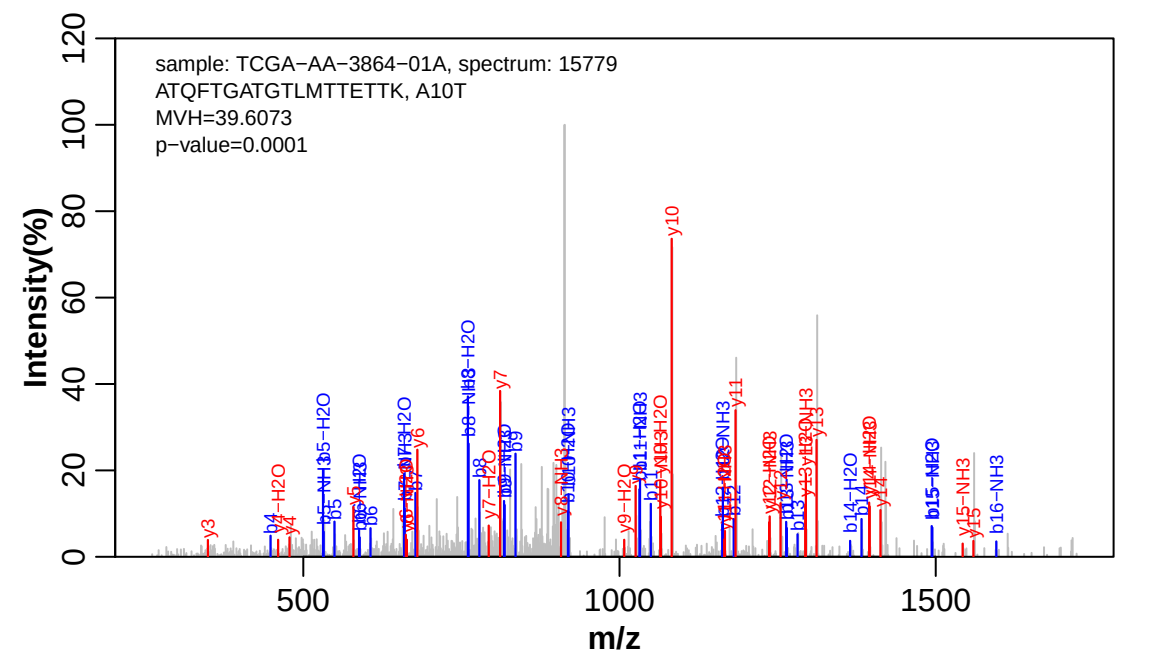

sample: TCGA−AA−3864−01A, spectrum: 60994
AAPSVTLFPPSSEELQANK, T2A
MVH=49.3897
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y10
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

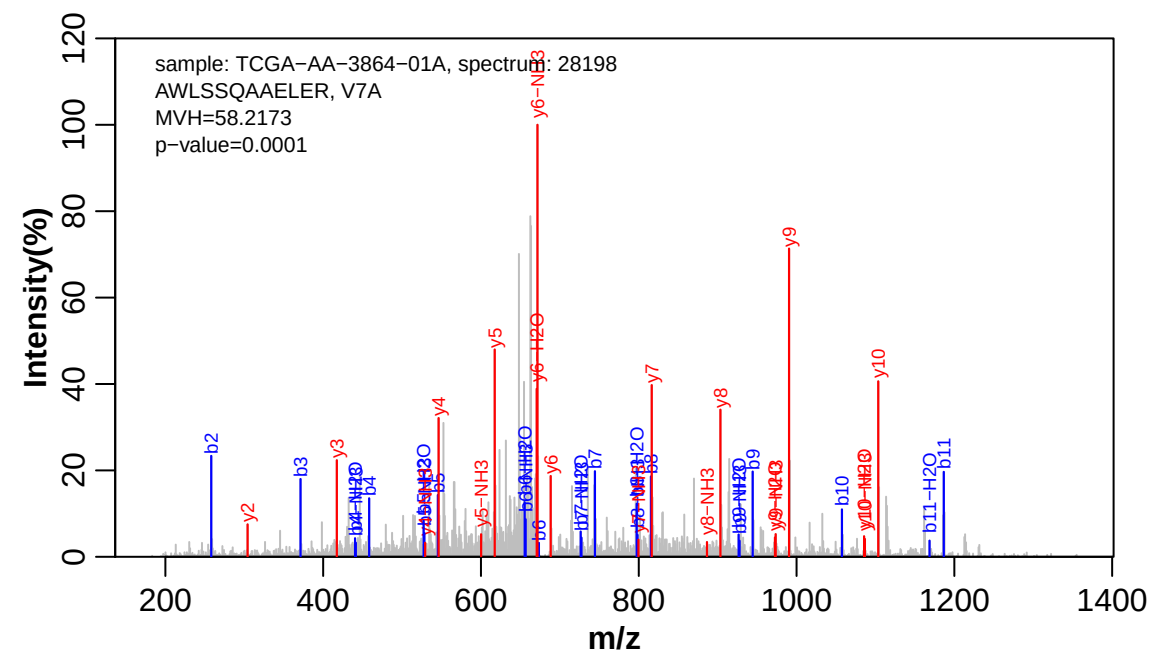

sample: TCGA−AA−3864−01A, spectrum: 11805
AGVETTTPSK, K7T
MVH=56.9341
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7

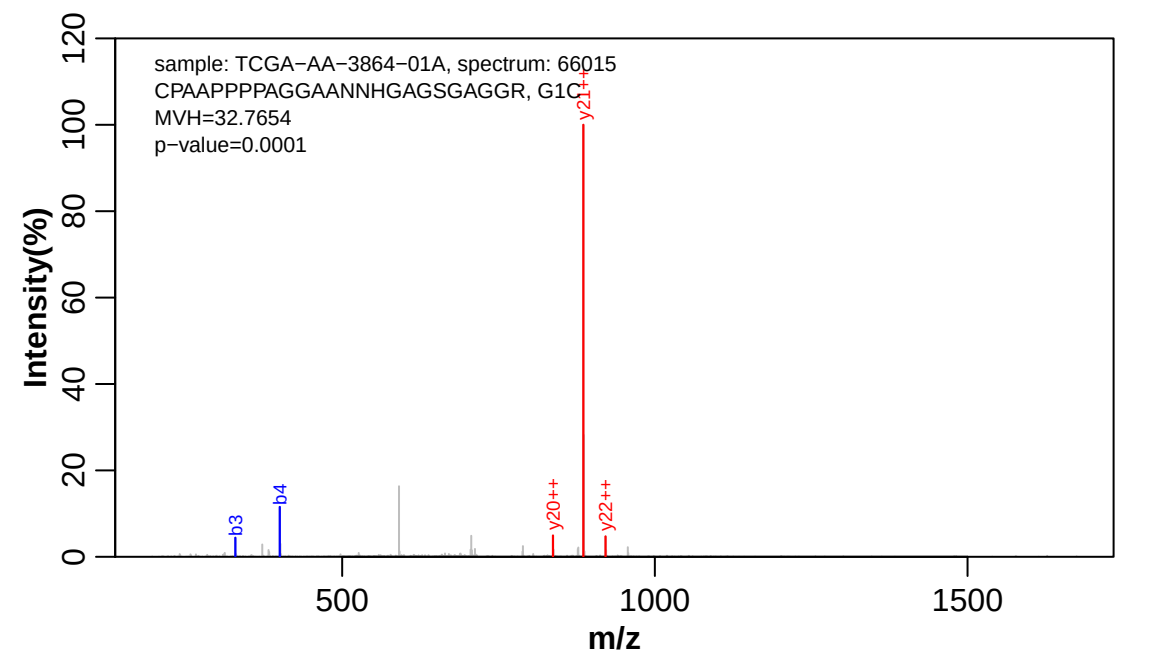

sample: TCGA−AA−3864−01A, spectrum: 87074
ALDRPYTSK, E3D
MVH=34.3021
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
y3
b4
y4−NH3
y4
y5
b6
y6
b7−H2O
b7
y7−NH3
y7
b8−H2O
b8

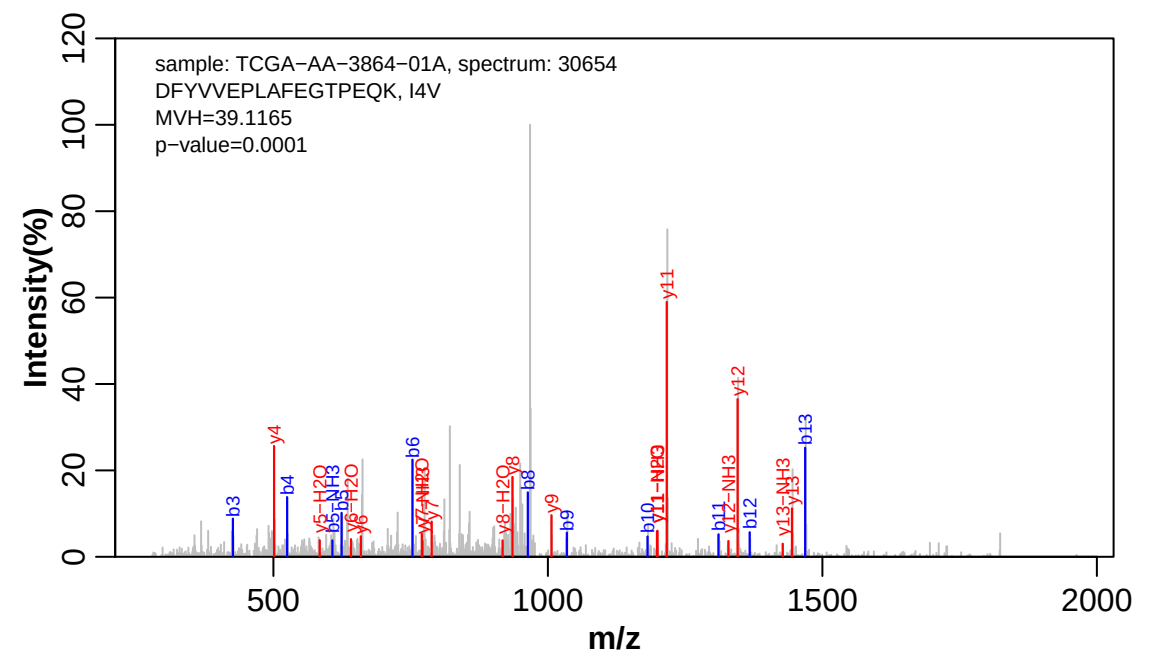

sample: TCGA−AA−3864−01A, spectrum: 60215
APSQHLSSFDPCFYR, RSH
MVH=61.7039
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5++
b10++
y5
b10
y6++
b9++−NH3
y6
b9

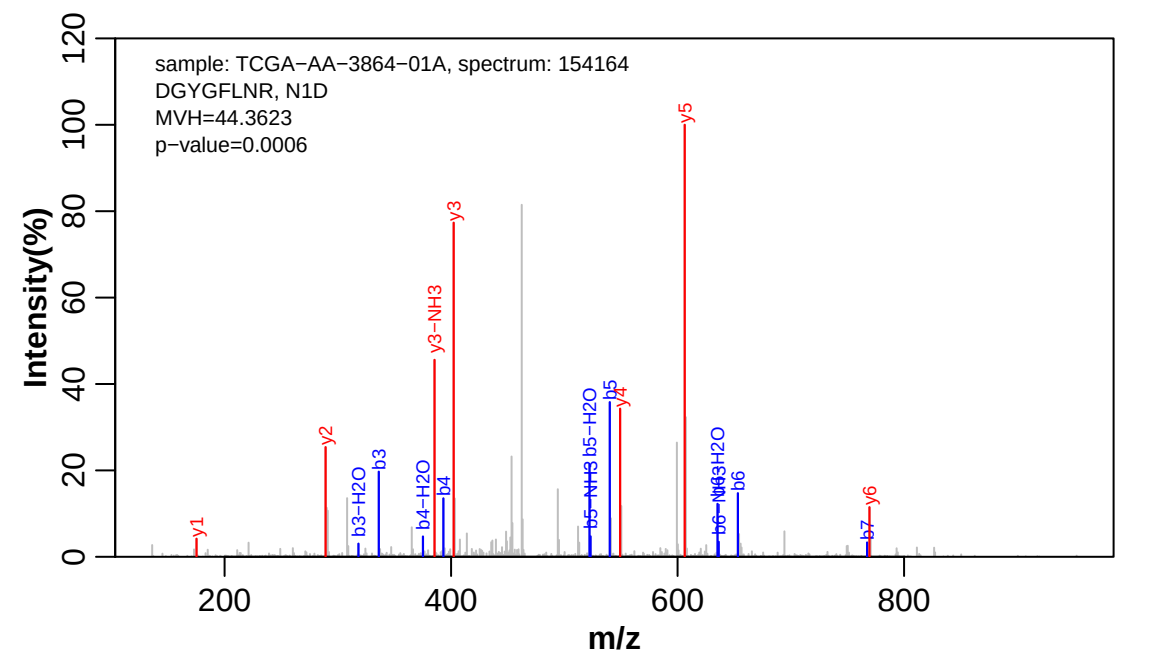

sample: TCGA−AA−3864−01A, spectrum: 17247
ASSSLLLNESEPTTNLQLR, D8N
MVH=48.8006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y12
y3
b6−H2O
y5
b7
y6
b8−H2O
y9
y11
y13
b18
b10−NH3

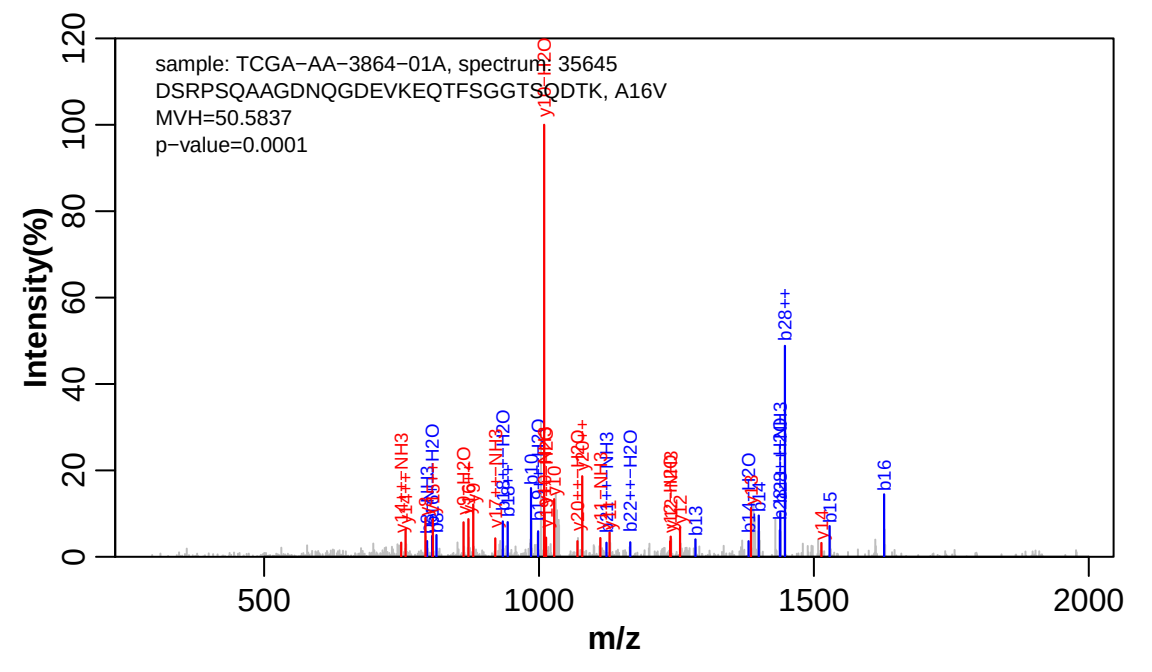

sample: TCGA−AA−3864−01A, spectrum: 15779
ATQFTGATGTLMTTETTK, A10T
MVH=39.6073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4−H2O
y4
b5−NH3
b5−H2O
b5
b6
y6
b8−NH3
b8−H2O
y7
y7−H2O
y8−NH3
y9−H2O
b11
y10
y11
b14−H2O
b15−NH3
y15−NH3
b16−NH3

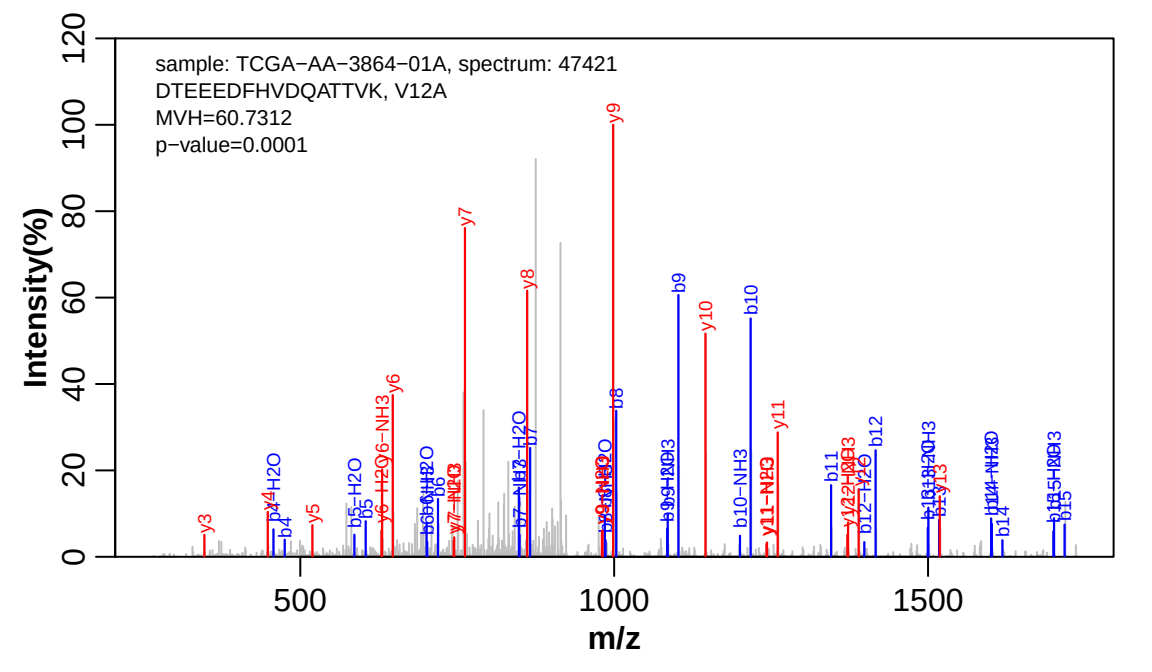

sample: TCGA−AA−3864−01A, spectrum: 28198
AWLSSQAAELER, V7A
MVH=58.2173
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
y5
y5−NH3
y6−NH3
y6−H2O
y6
b7
y7
y8
y8−NH3
b9
y9
b10
y10
b11
b11−H2O

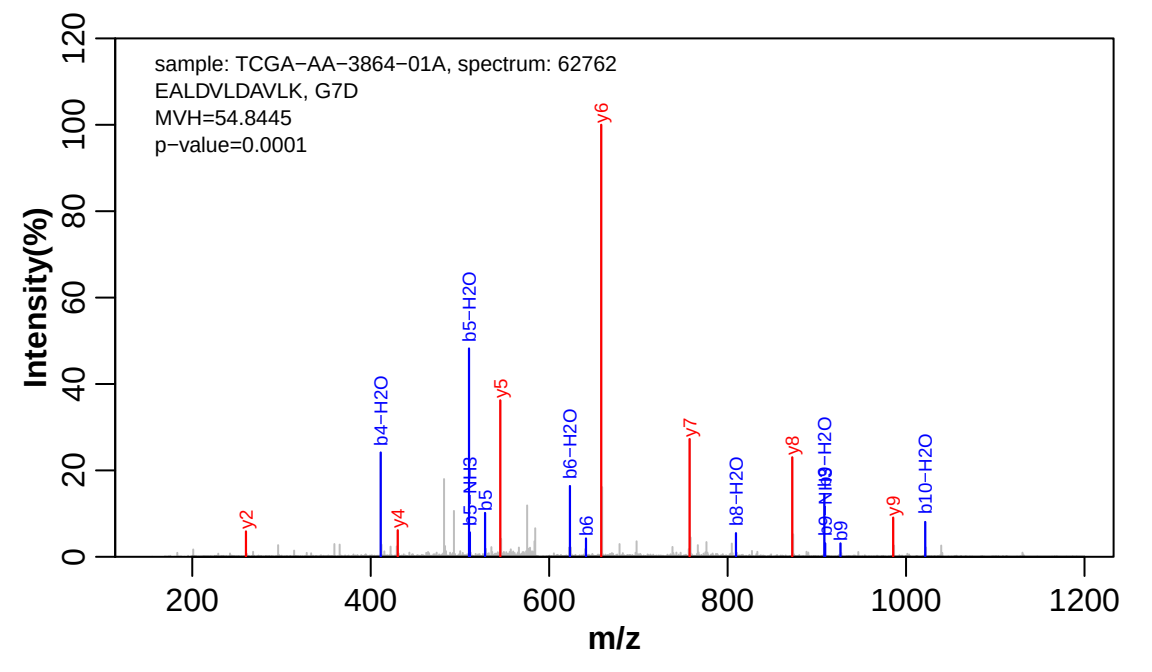

sample: TCGA−AA−3864−01A, spectrum: 66015
CPAAPPPPAGGAANNHGAGSGAGGR, G1C1
MVH=32.7654
p−value=0.0001
b3
b4
y20++
y21++
y22++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

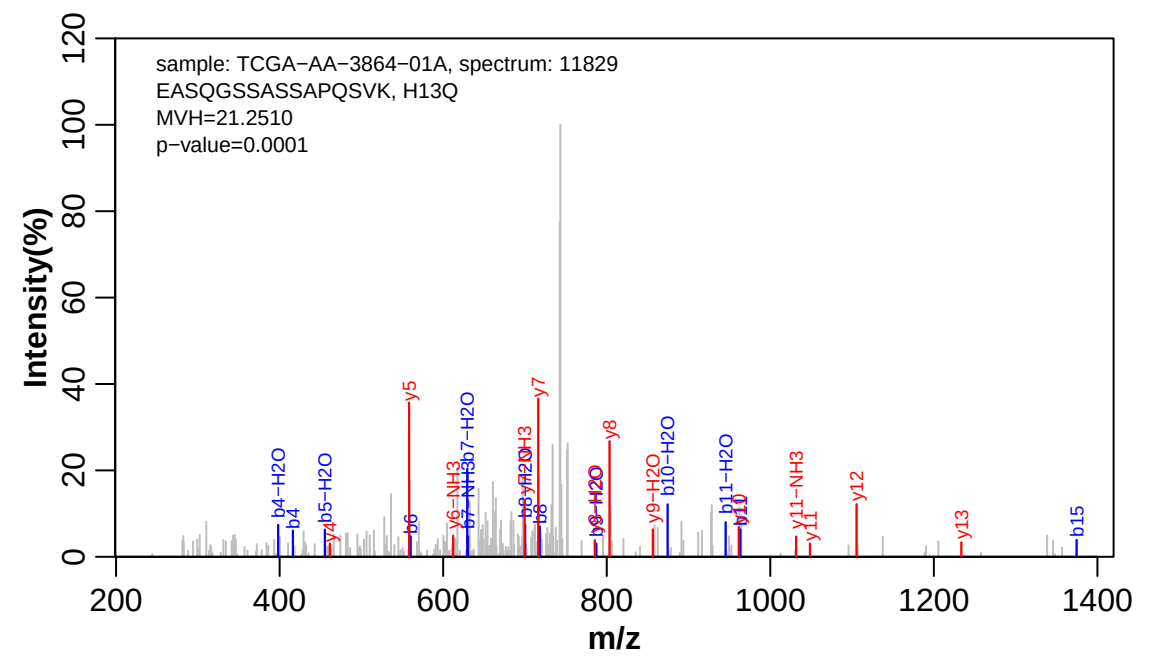

sample: TCGA−AA−3864−01A, spectrum: 30654
DFYVVEPLAFEGTPEQK, I4V
MVH=39.1165
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5−H2O
b5−NH3
b5
y6
b6
y7−NH3
y7
y8−H2O
y8
b8
y9
b9
b10
y11−NH3
y11
y12−NH3
y12
b11
b12
y13−NH3
y13
b13

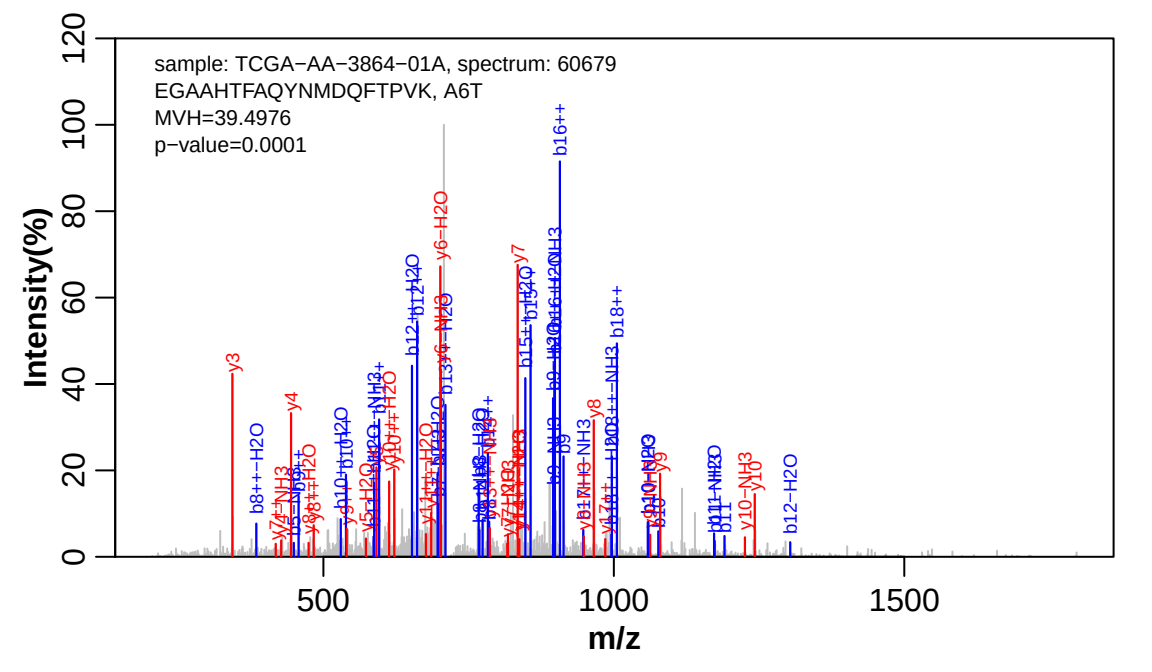

sample: TCGA−AA−3864−01A, spectrum: 154164
DGYGFLNR, N1D
MVH=44.3623
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−NH3
b6−H2O
b6
b7
y6

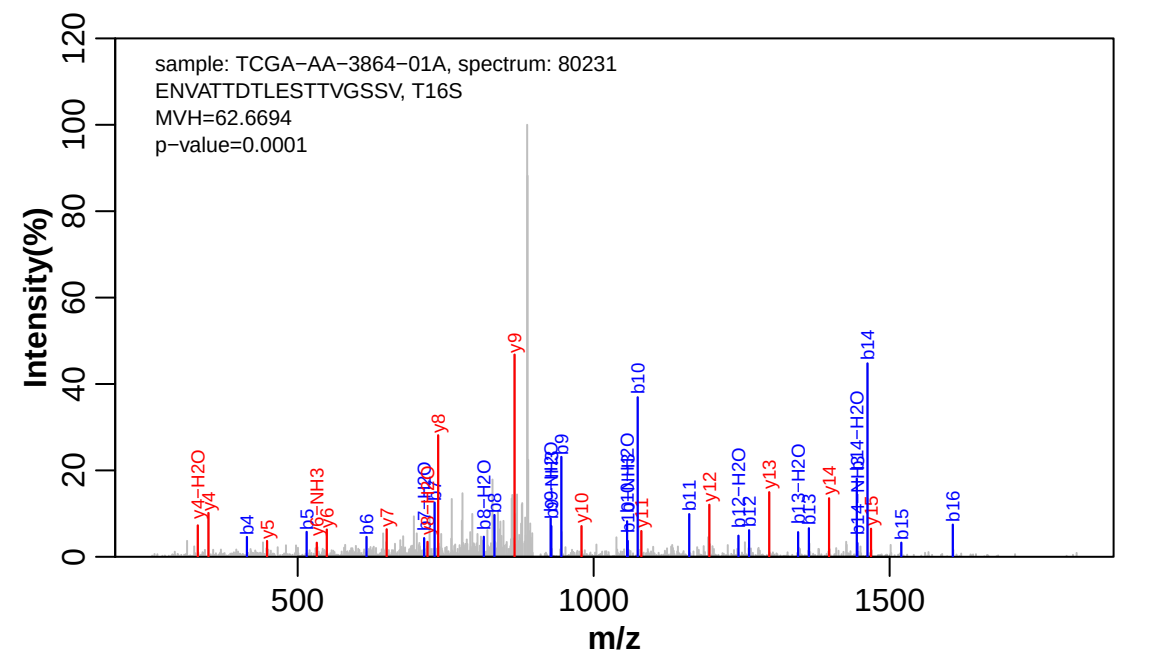

sample: TCGA−AA−3864−01A, spectrum: 35645
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=50.5837
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y14++−NH3
b8−H2O
b8−NH3
y8−H2O
y9−H2O
y11++−NH3
b10−H2O
b10−NH3
y10−H2O
y20++−H2O
y11++−NH3
b22++−H2O
b13
b14−H2O
b14
b28++
b16
y14
b15

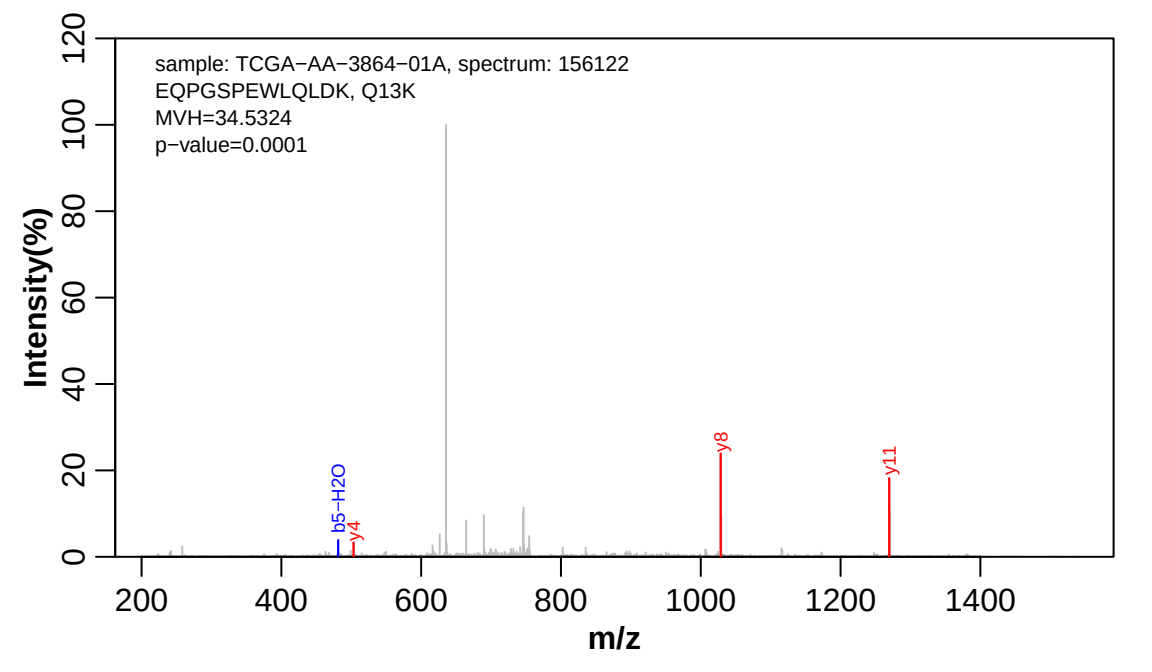

sample: TCGA−AA−3864−01A, spectrum: 47421
DTEEEDFHVDQATTVK, V12A
MVH=60.7312
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4
y4
b4−H2O
y5
b5
b5−H2O
y6
y6−H2O
y6−NH3
b6
b6−H2O
y7
y7−H2O
y7−NH3
b7
b7−NH3
b7−H2O
y8
b8
b8−H2O
b8−NH3
y9
b9
b9−H2O
b9−NH3
y10
b10
b10−NH3
y11
y11−H2O
y11−NH3
b11
b12
b12−H2O
b13
b14
b15

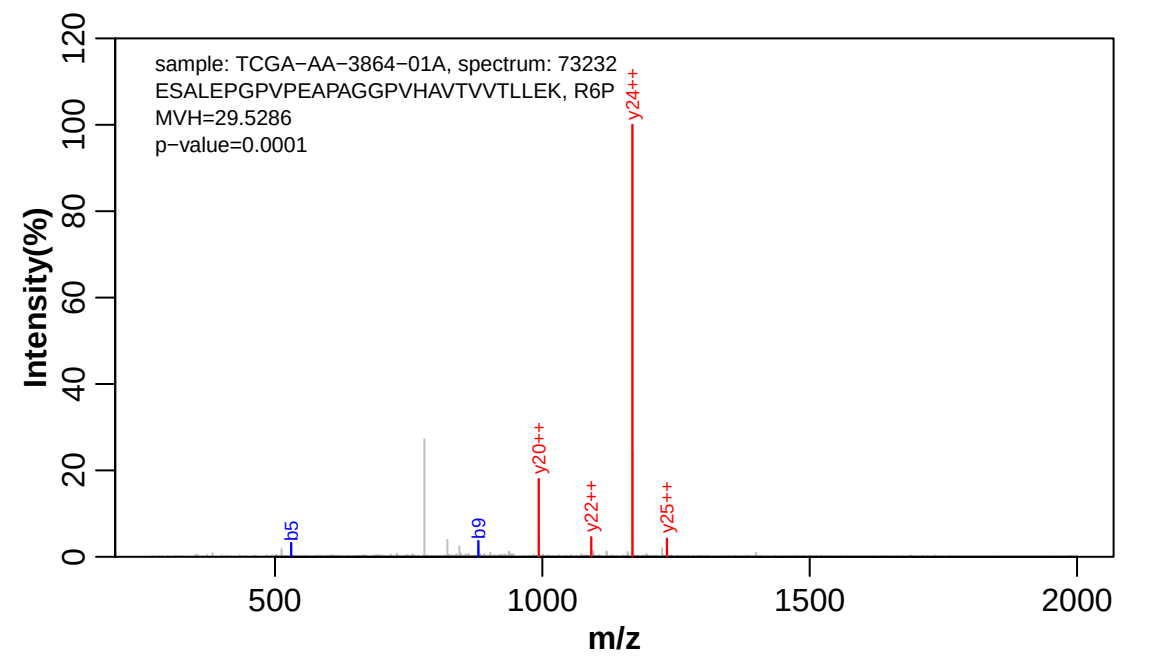

sample: TCGA−AA−3864−01A, spectrum: 62762
EALDVLDAVLK, G7D
MVH=54.8445
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9−NH3
b9
y9
b10−H2O

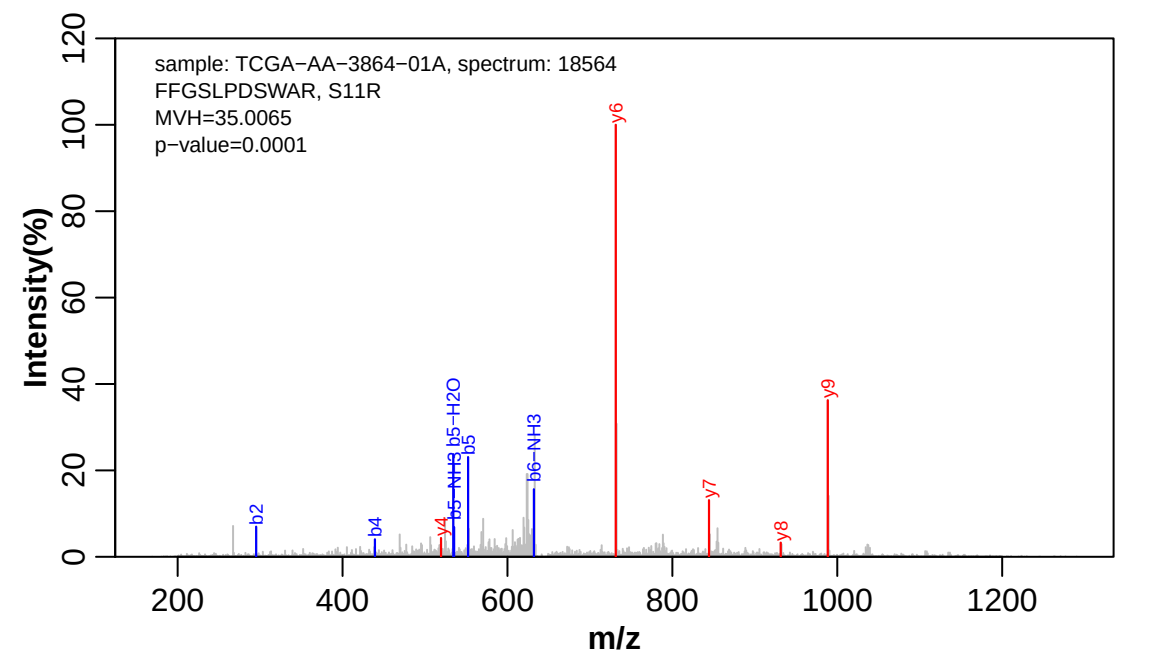

sample: TCGA−AA−3864−01A, spectrum: 11829
EASQGSSASSAPQSVK, H13Q
MVH=21.2510
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
b4
b5−H2O
y4
y5
b6
y6−NH3
b7−NH3
b7−H2O
b8−H2O
y7
b8
y8
b9−H2O
y9−H2O
b10−H2O
b11−H2O
b10
y11−NH3
y11
y12
y13
b15

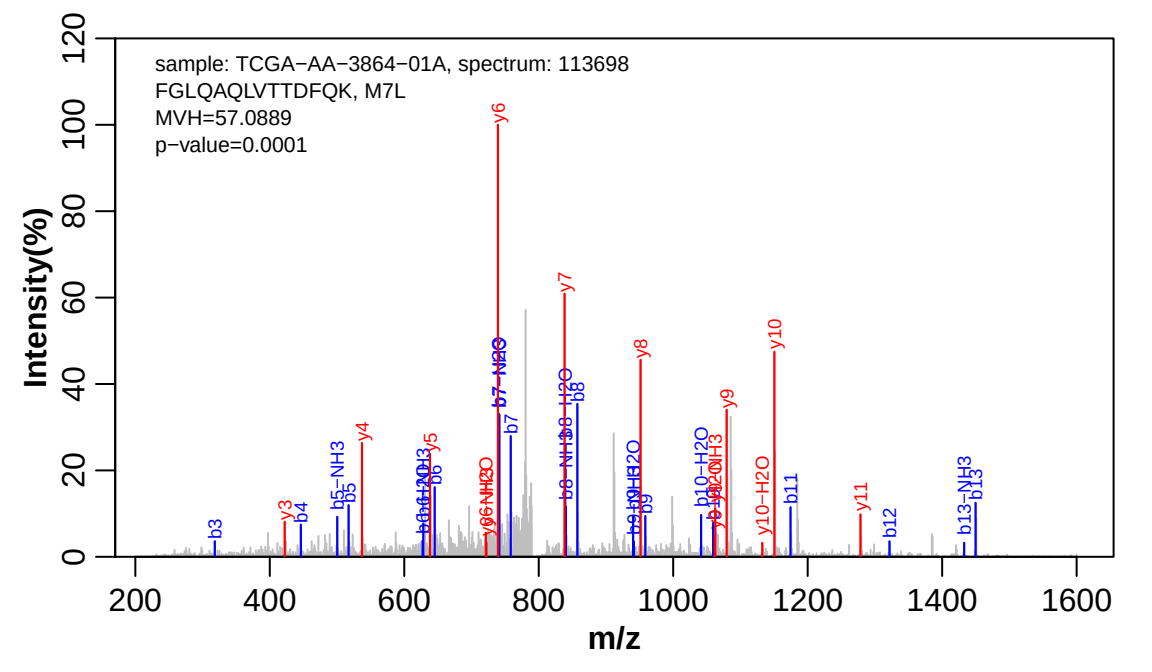

sample: TCGA−AA−3864−01A, spectrum: 60679
EGAAHTFAQYNMDQFTPVK, A6T
MVH=39.4976
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b8++−H2O
b16++
b18++
y8
y7
b12−H2O
y10−NH3

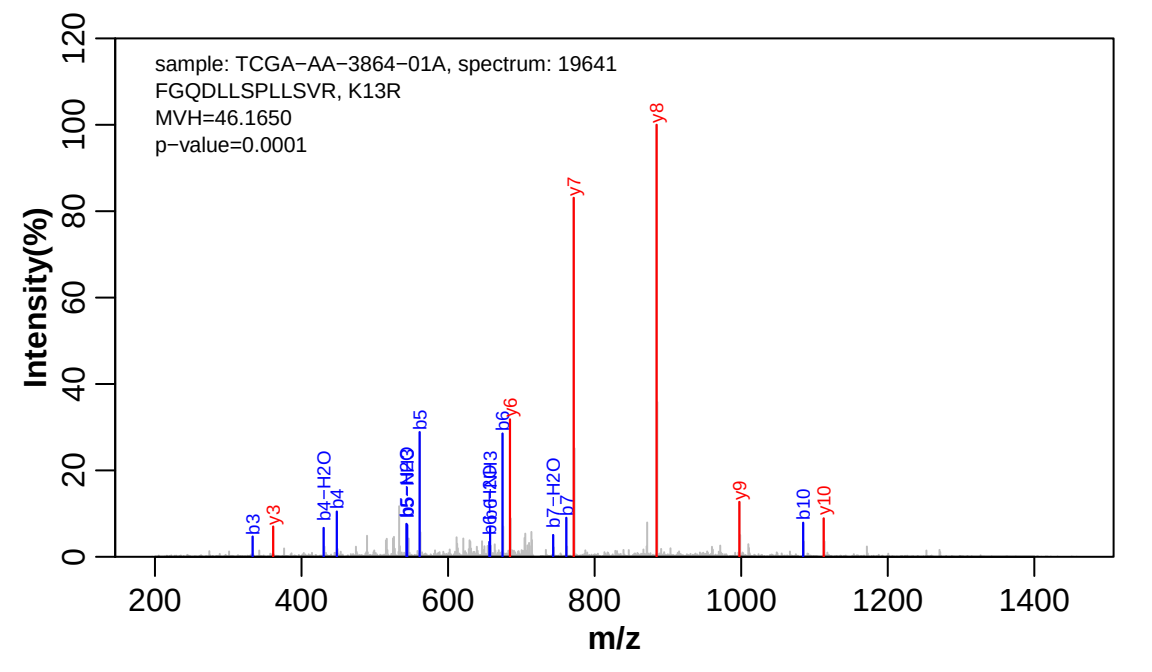

sample: TCGA−AA−3864−01A, spectrum: 80231
ENVATTDTLESTTVGSSV, T16S
MVH=62.6694
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4−H2O
y4
b4
y5
b5
y6−NH3
y6
b6
y7
y7−NH3
y7−H2O
y8
b8−H2O
b8
y9
b9−NH3
b9
y10
b10−NH3
b10−H2O
b10
y11
b11
y12
b12−H2O
b12
y13
b13−H2O
b13
y14
b14−NH3
b14−H2O
b14
y15
b15
b16

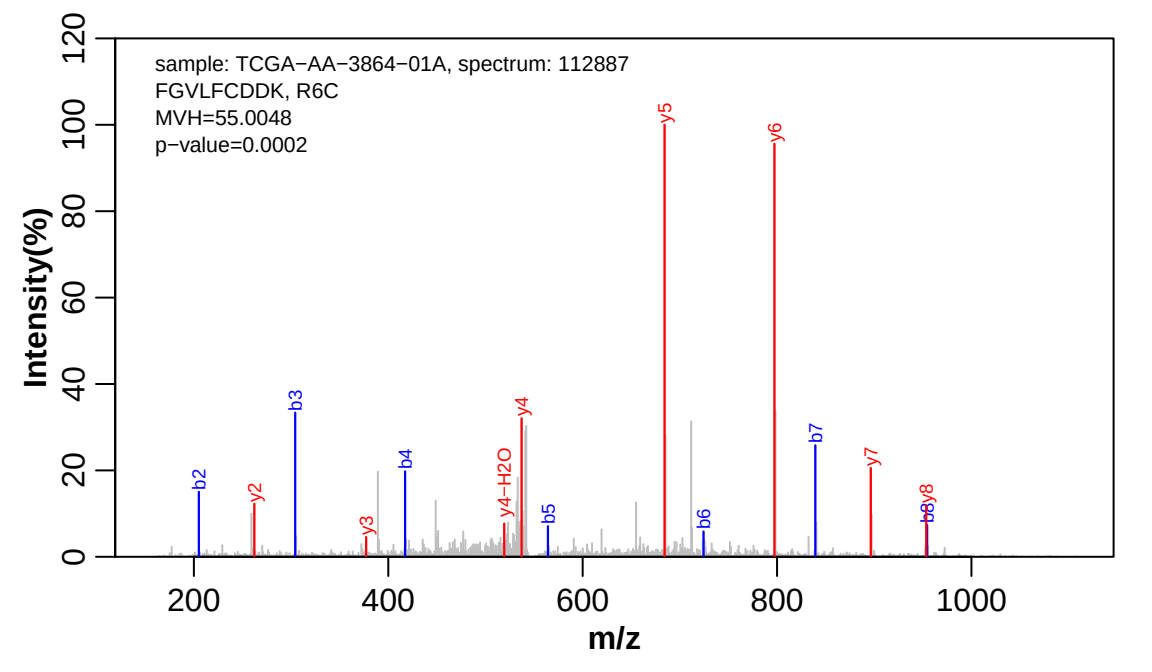

sample: TCGA−AA−3864−01A, spectrum: 156122
EQPGSPEWLQLDK, Q13K
MVH=34.5324
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

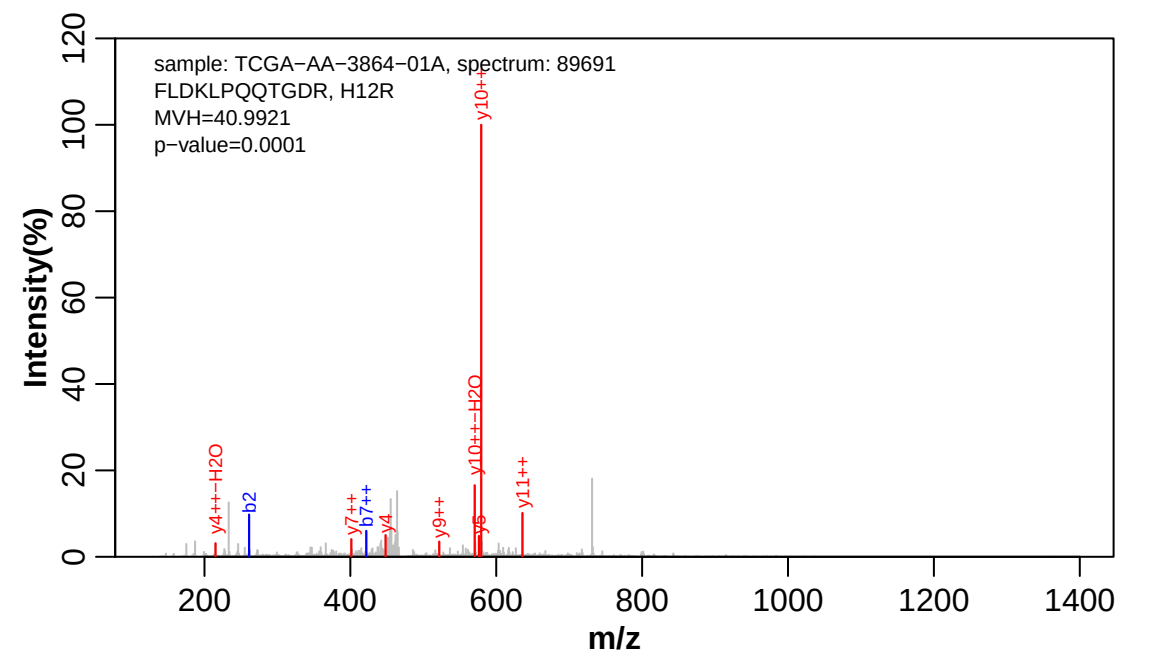

sample: TCGA−AA−3864−01A, spectrum: 73232
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=29.5286
p−value=0.0001
y24++
y20++
y22++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

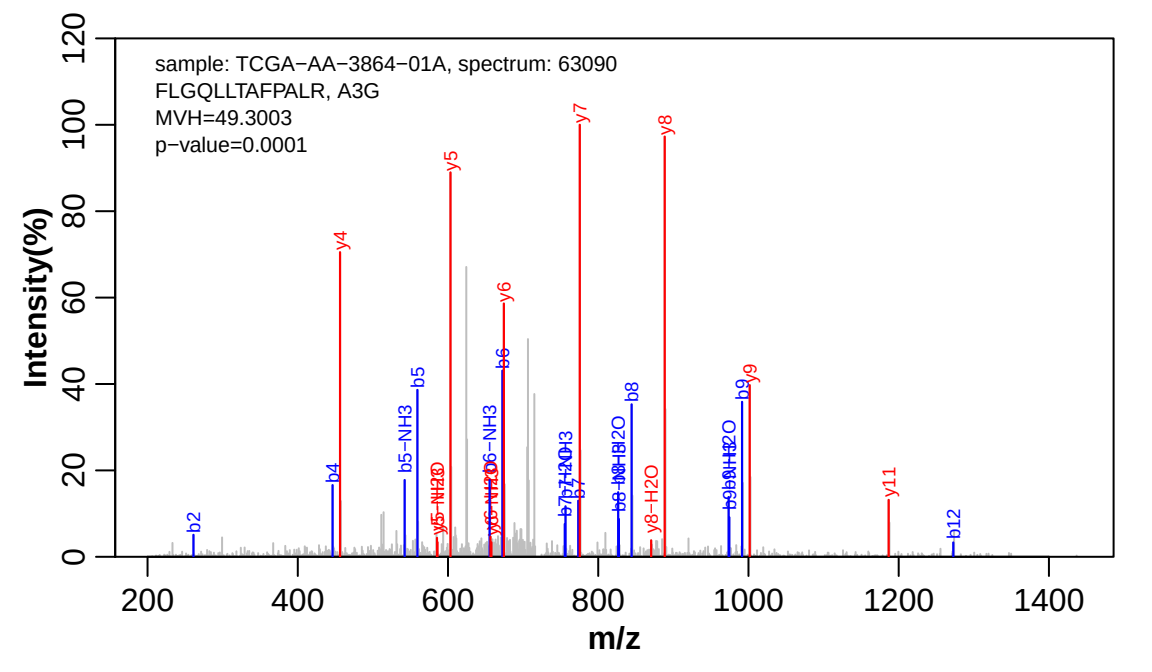

sample: TCGA−AA−3864−01A, spectrum: 18564
FFGSLPDSWAR, S11R
MVH=35.0065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

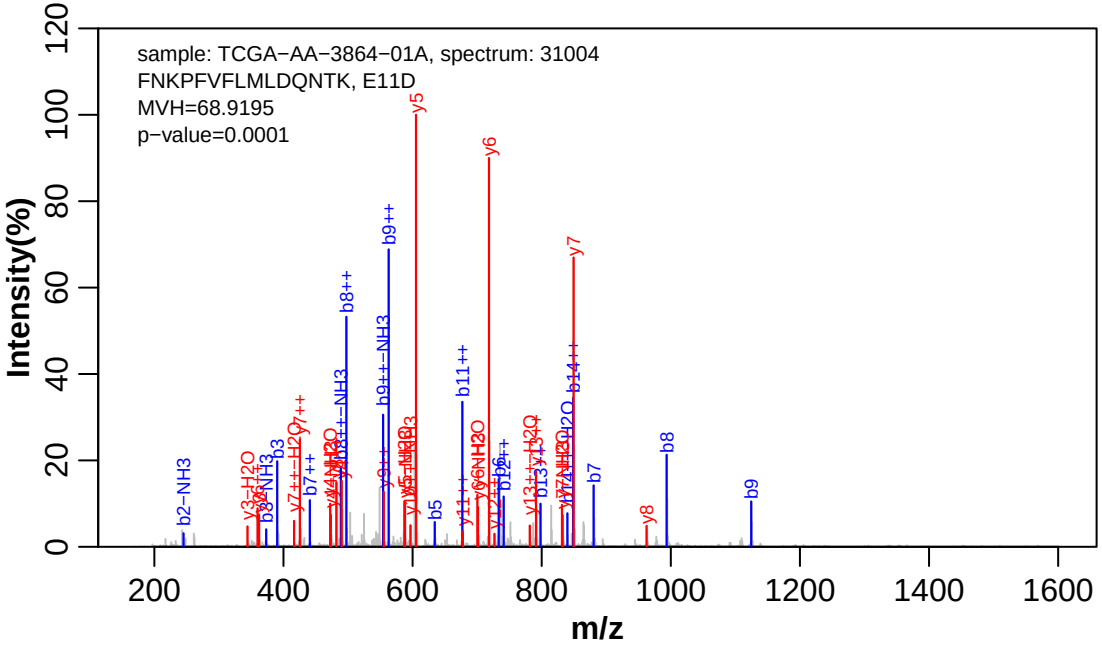

sample: TCGA−AA−3864−01A, spectrum: 113698
FGLQAQLVTTDFQK, M7L
MVH=57.0889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y9
y4
y5
y3
y11
b3
b4
b5−NH3
b5
b6
b7
b8
b10−H2O
b11
b12
b13−NH3
b13
y10−H2O

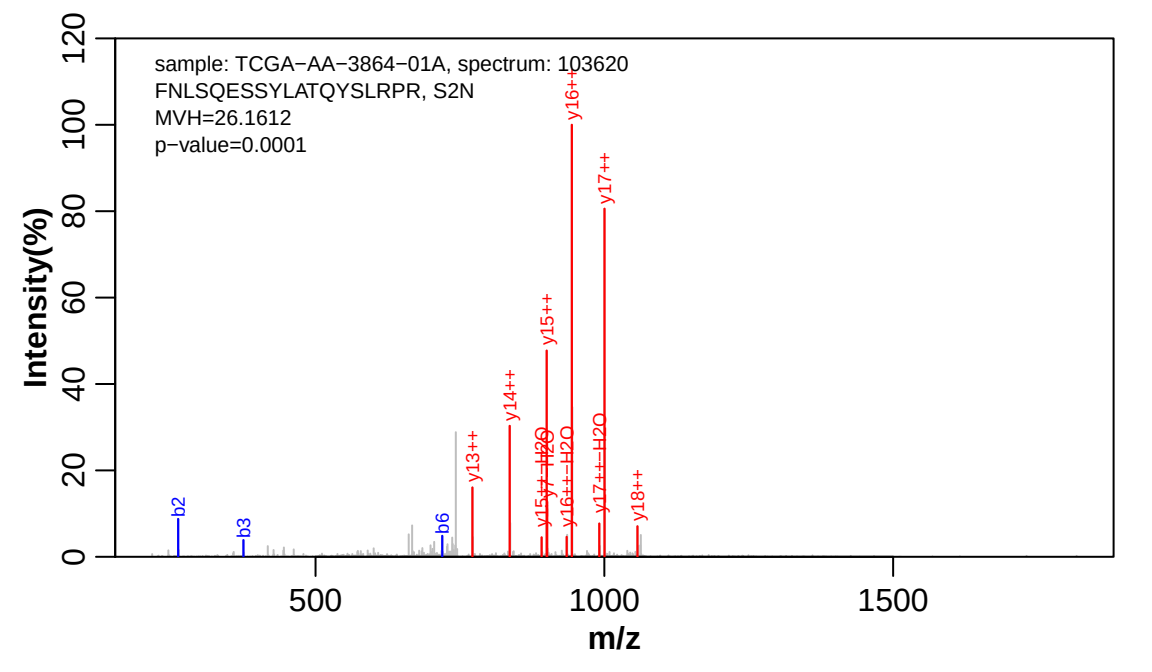

sample: TCGA−AA−3864−01A, spectrum: 19641
FGQDLLSPLLSVR, K13R
MVH=46.1650
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

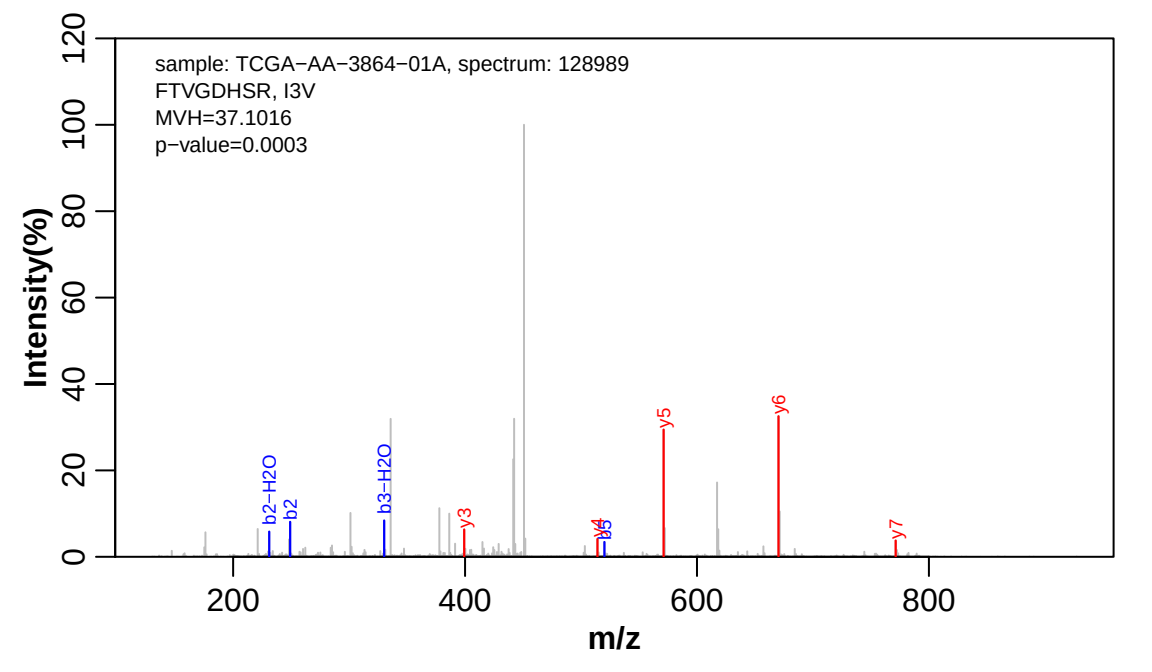

sample: TCGA−AA−3864−01A, spectrum: 112887
FGVLFCDDK, R6C
MVH=55.0048
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
b3
y3
b4
y4−H2O
y4
b5
y5
b6
y6
b7
y7
b8
y8

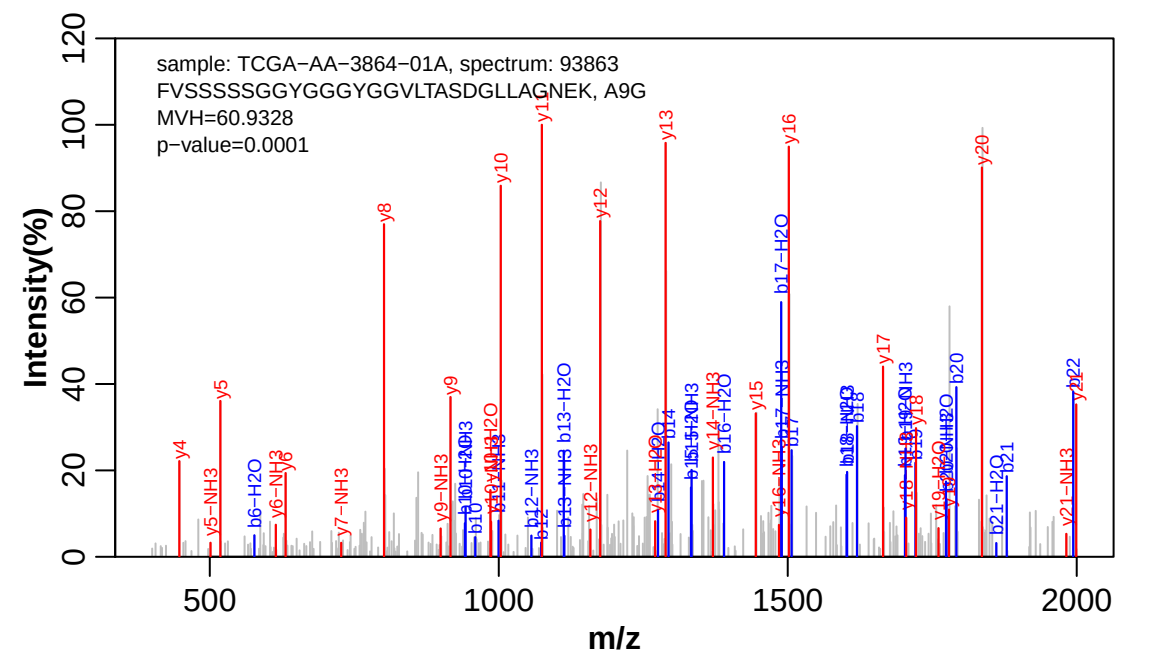

sample: TCGA−AA−3864−01A, spectrum: 89691
FLDKLPQQTGDR, H12R
MVH=40.9921
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
y4++−H2O
b2
y7++
b7++
y4
y9++
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

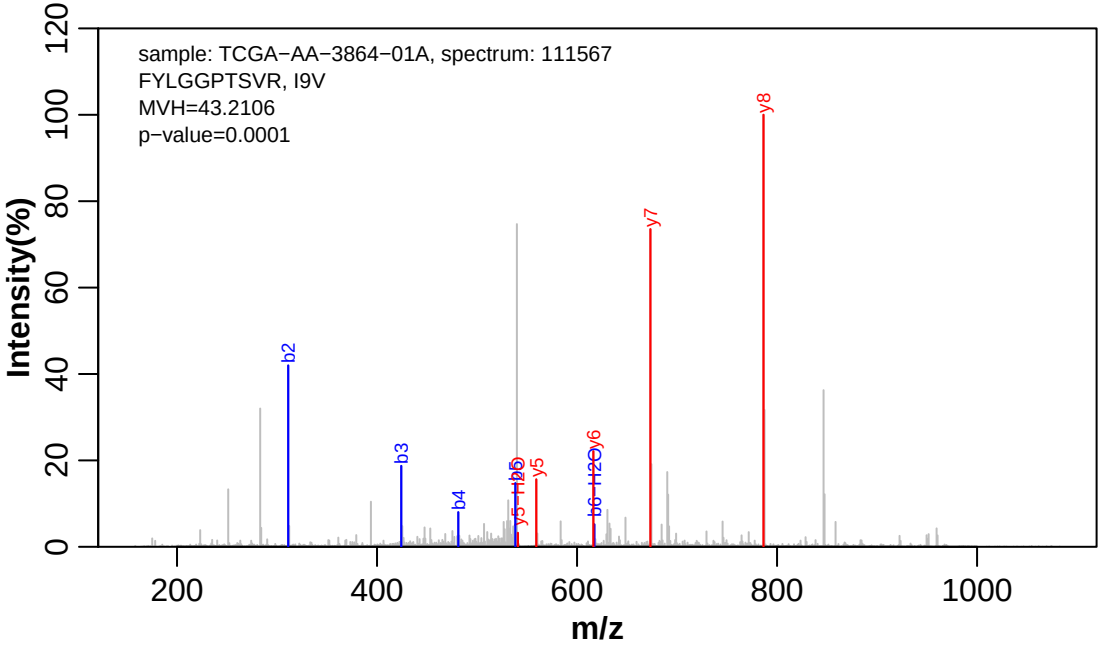

sample: TCGA−AA−3864−01A, spectrum: 63090
FLGQLLTAFPALR, A3G
MVH=49.3003
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
b5
b5−NH3
y4
y5
y6
y6−NH3
b6
y7
y8
b8
y8−H2O
y9
y11
b12

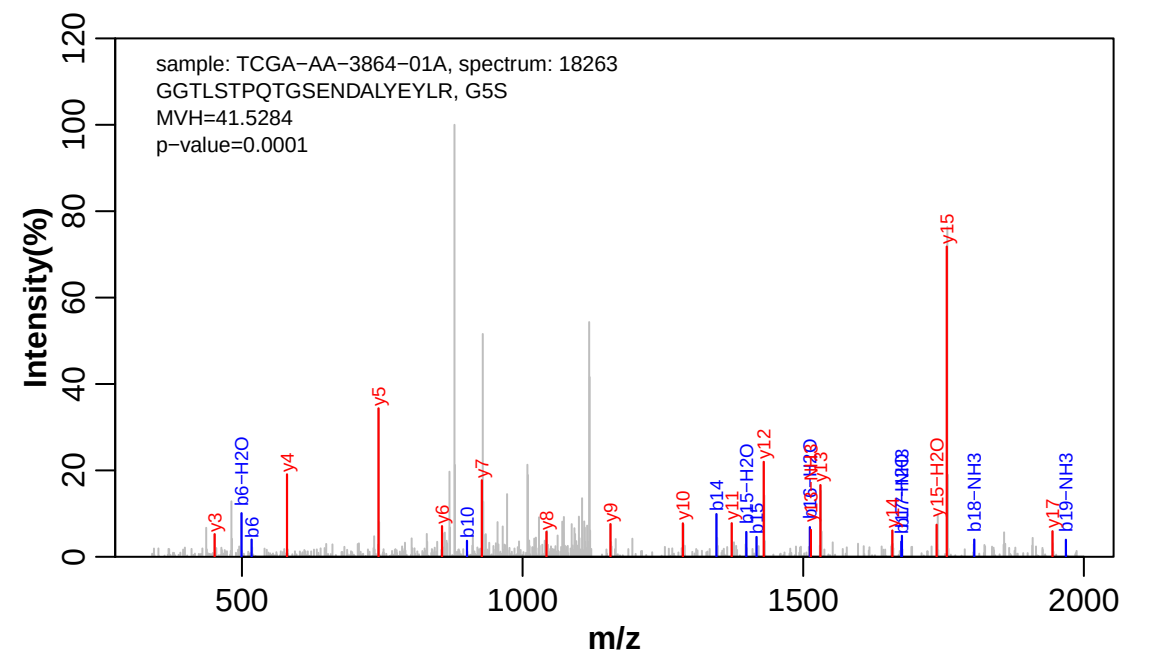

sample: TCGA−AA−3864−01A, spectrum: 31004
FNKPFVFLMLDQNTK, E11D
MVH=68.9195
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b9
b8
b9++
b8++
b11++
b14++
b2−NH3
b7++
b5

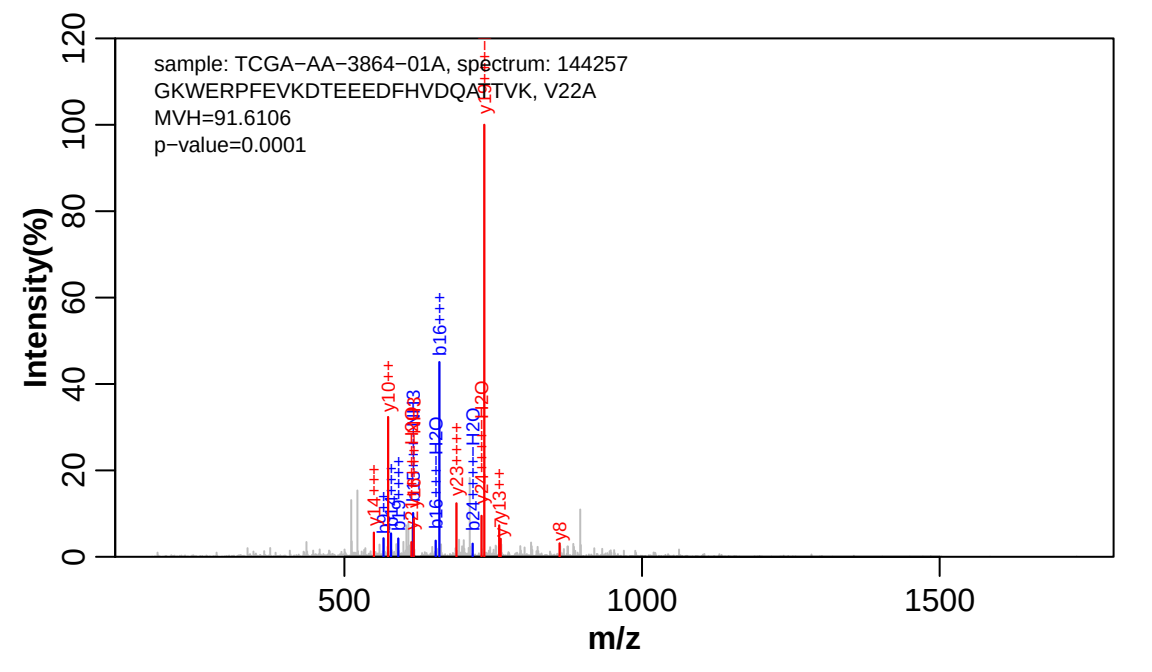

sample: TCGA−AA−3864−01A, spectrum: 103620
FNLSQESSYLATQYSLRPR, S2N
MVH=26.1612
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
b6
y13++
y14++
y15++
y15++−H2O
y16++
y16++−H2O
y17++
y17++−H2O
y18++

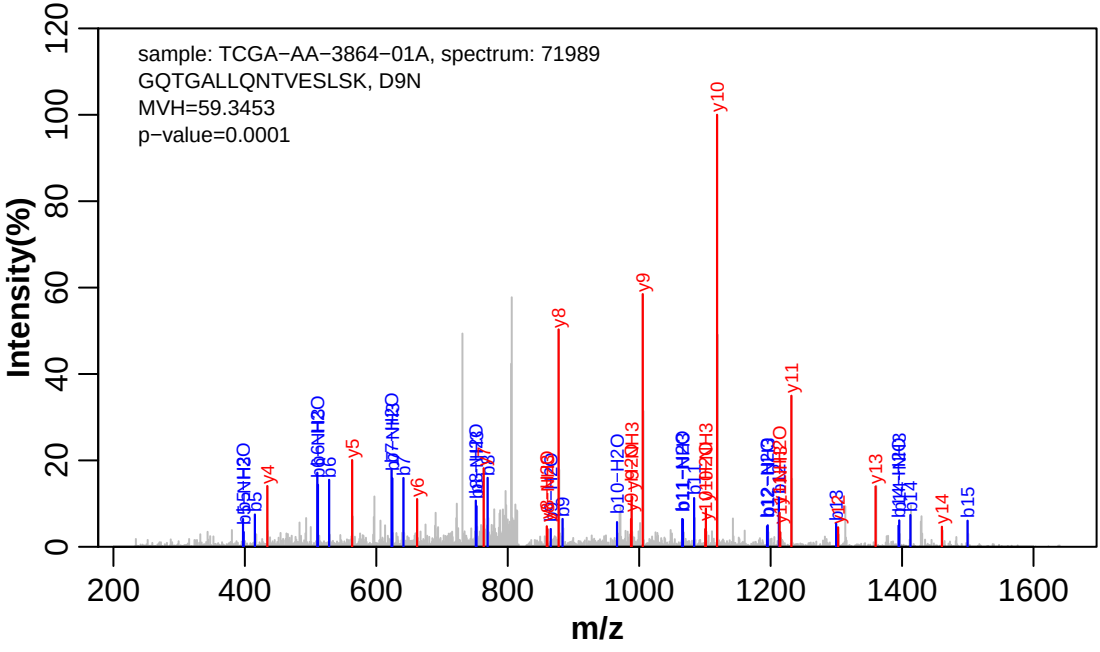

sample: TCGA−AA−3864−01A, spectrum: 128989
FTVGDHSR, I3V
MVH=37.1016
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
y4
y5
y6
y7

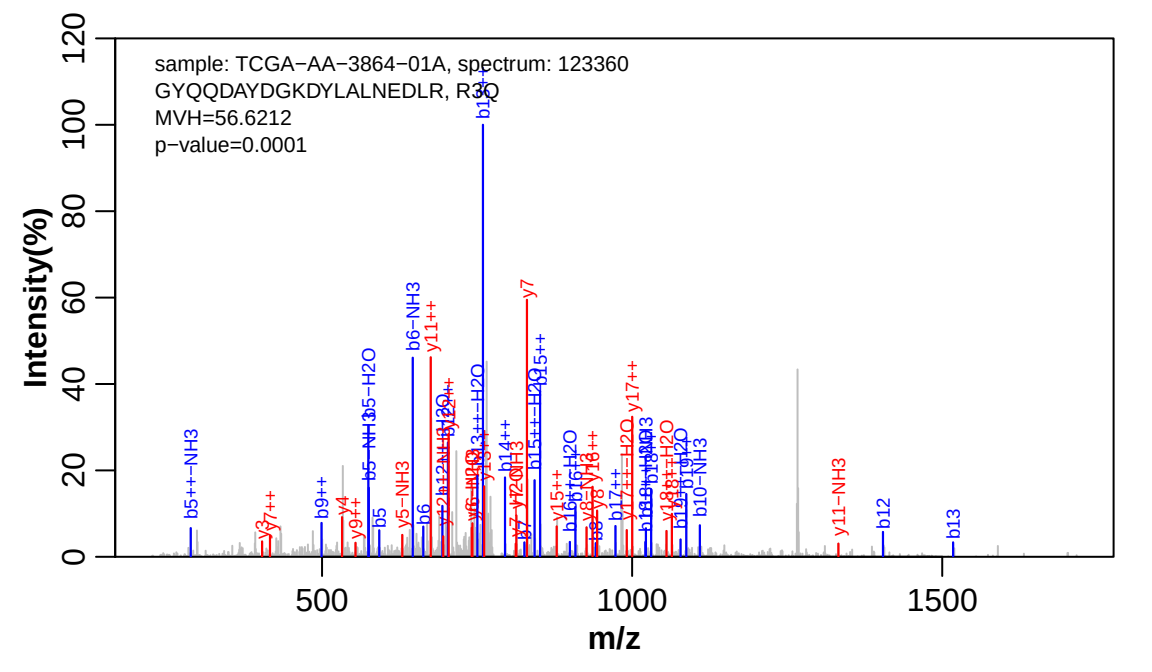

sample: TCGA−AA−3864−01A, spectrum: 93863
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=60.9328
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y5−NH3
b6−H2O
y6
y6−NH3
y7−NH3
y8
y9
y9−NH3
b10
b10−H2O
b10−NH3
b11
b11−H2O
b11−NH3
b12
b12−NH3
y10
y11
b13
b13−NH3
b13−H2O
y12
y12−NH3
y13
b14
b14−H2O
b14−NH3
b15
b15−H2O
b15−NH3
y14−NH3
b16
b16−H2O
y15
y16
b17
b17−NH3
b17−H2O
b18
b18−NH3
b18−H2O
y17
y18
b19
b19−NH3
b19−H2O
b20
y20
b21
b21−H2O
y21−NH3
y22

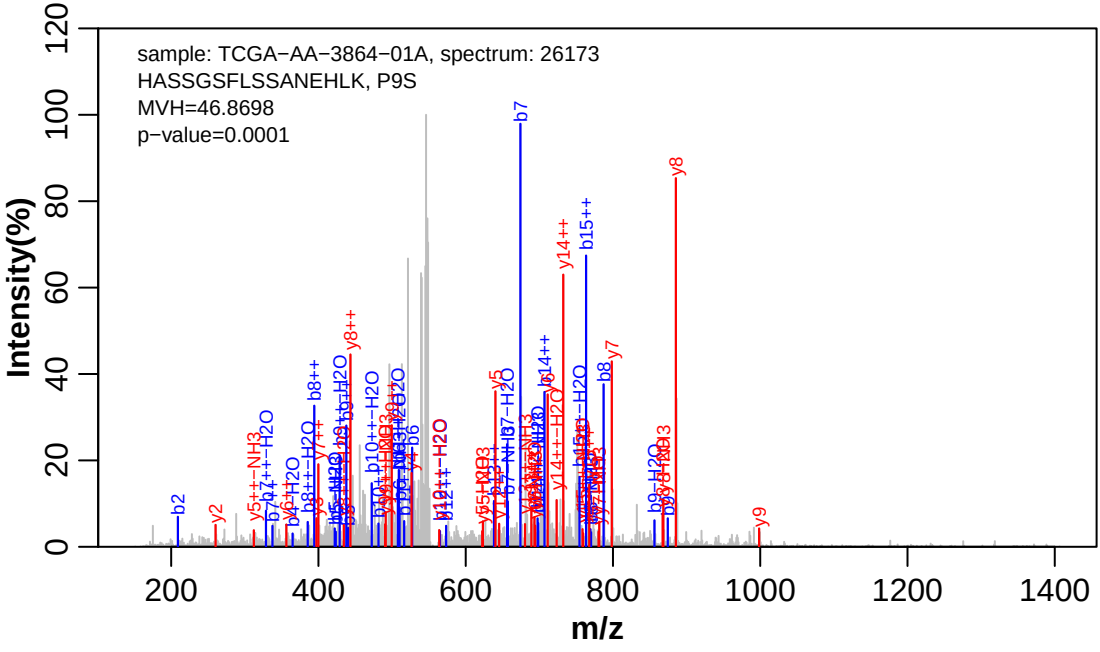

sample: TCGA−AA−3864−01A, spectrum: 111567
FYLGGPTSVR, I9V
MVH=43.2106
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
y5
y7
y8

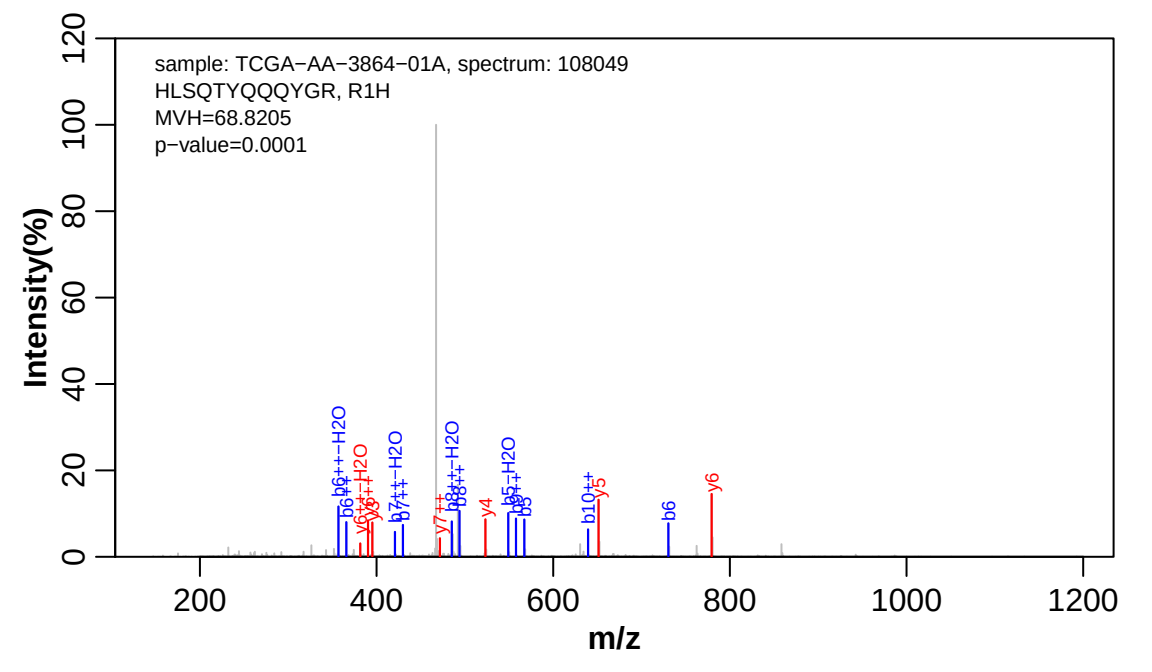

sample: TCGA−AA−3864−01A, spectrum: 18263
GGTLSTPQTGSENDALYEYLR, G5S
MVH=41.5284
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b6−H2O
b6
y4
y5
y6
b10
y7
y8
y9
y10
b14
y11
b15−H2O
b15
y12
y15
y15−H2O
b18−NH3
y17
b19−NH3

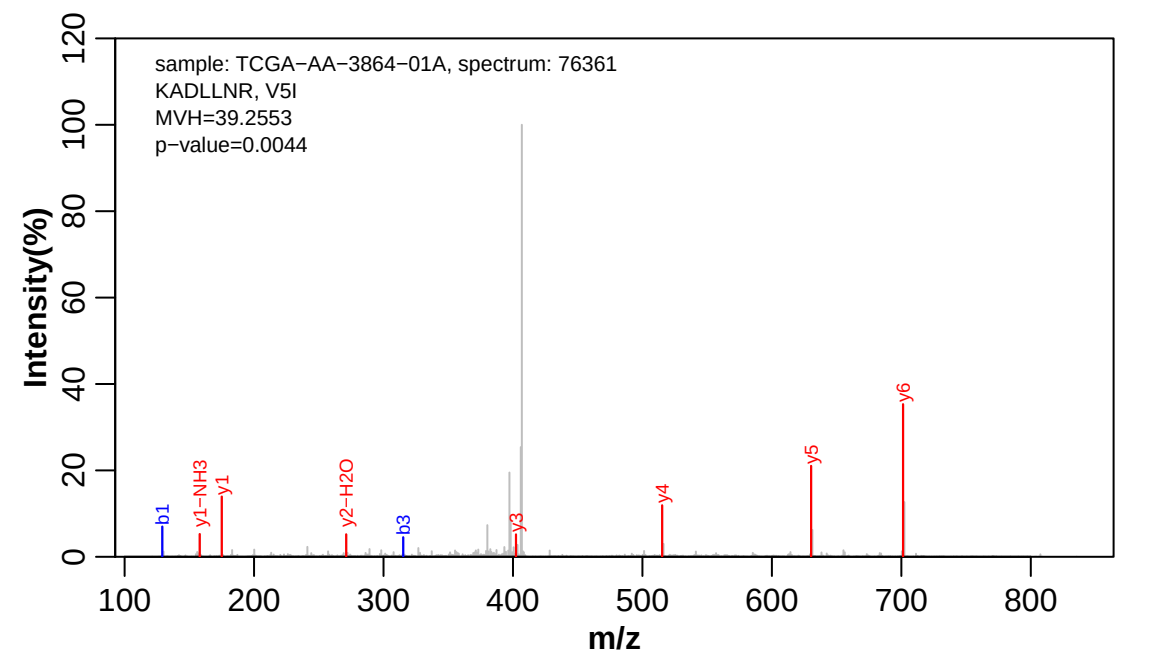

sample: TCGA−AA−3864−01A, spectrum: 144257
GKWERPFEVKDTEEEDFHVDQADTVK, V22A
MVH=91.6106
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10++
b16+++
b16++−H2O
y23++++
y7y13++
y8

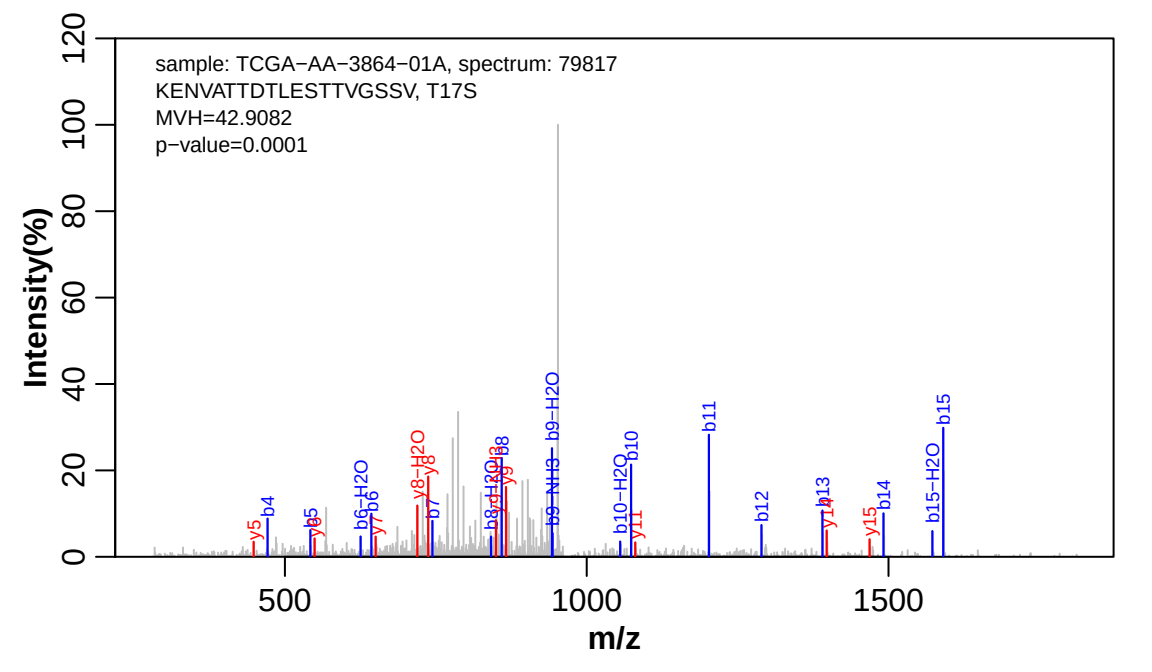

sample: TCGA−AA−3864−01A, spectrum: 71989
GQTGALLQNTVESLSK, D9N
MVH=59.3453
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y5
y6
y4
y13
y14
b15

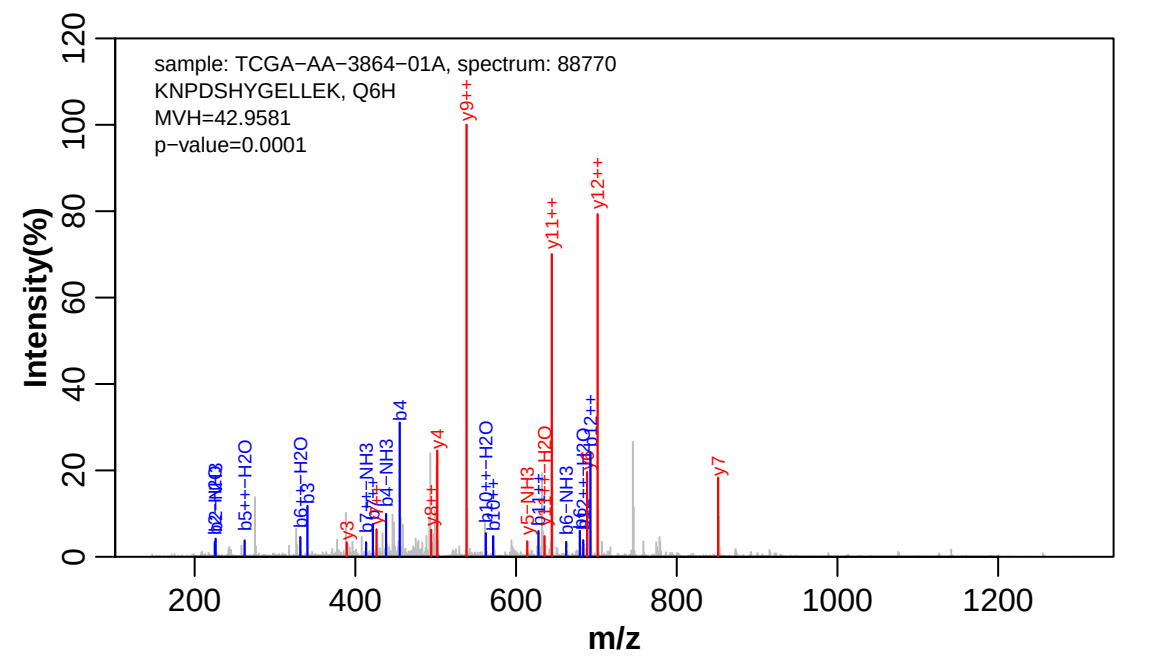

sample: TCGA−AA−3864−01A, spectrum: 123360
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=56.6212
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
y3
y7++
b9++
y4
y9++
b5
b5−NH3
b5−H2O
y5−NH3
b6
b6−NH3
y11++
b10++
y7
y15++
b13
y11−NH3
b12

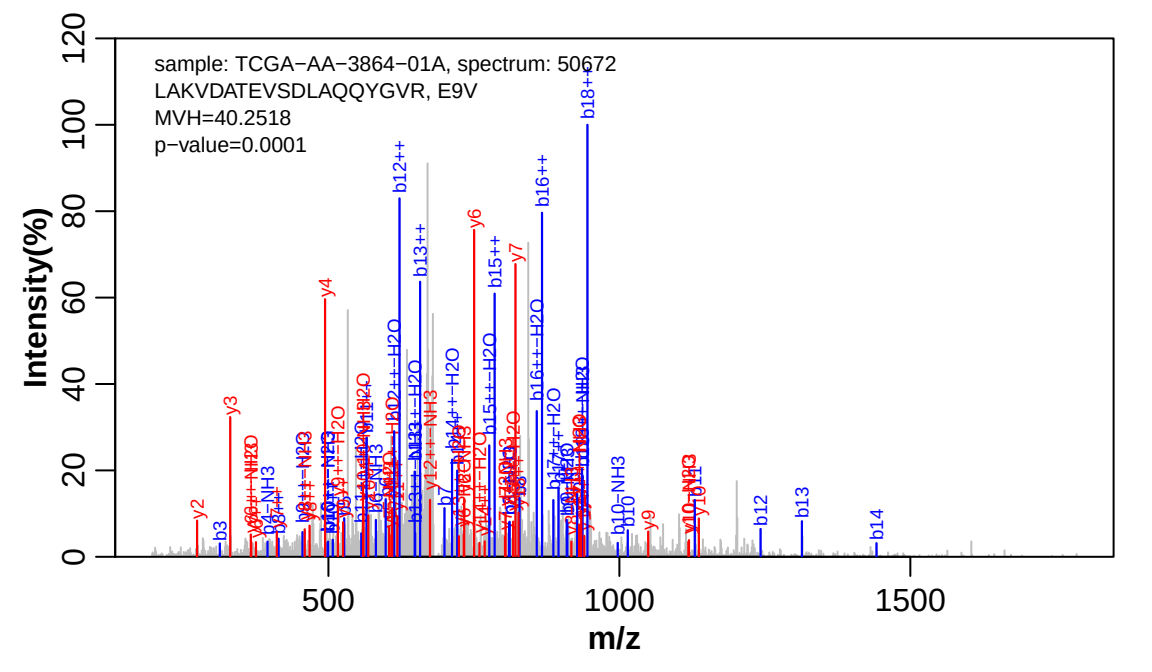

sample: TCGA−AA−3864−01A, spectrum: 26173
HASSGSFLSSANEHLK, P9S
MVH=46.8698
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y5++−NH3
b7++−H2O
b4++−H2O
b8++−H2O
b8++
y8++
b10++−H2O
b7
y8
y14++
b15++
y14++−H2O
b14++
y7
b8
y9

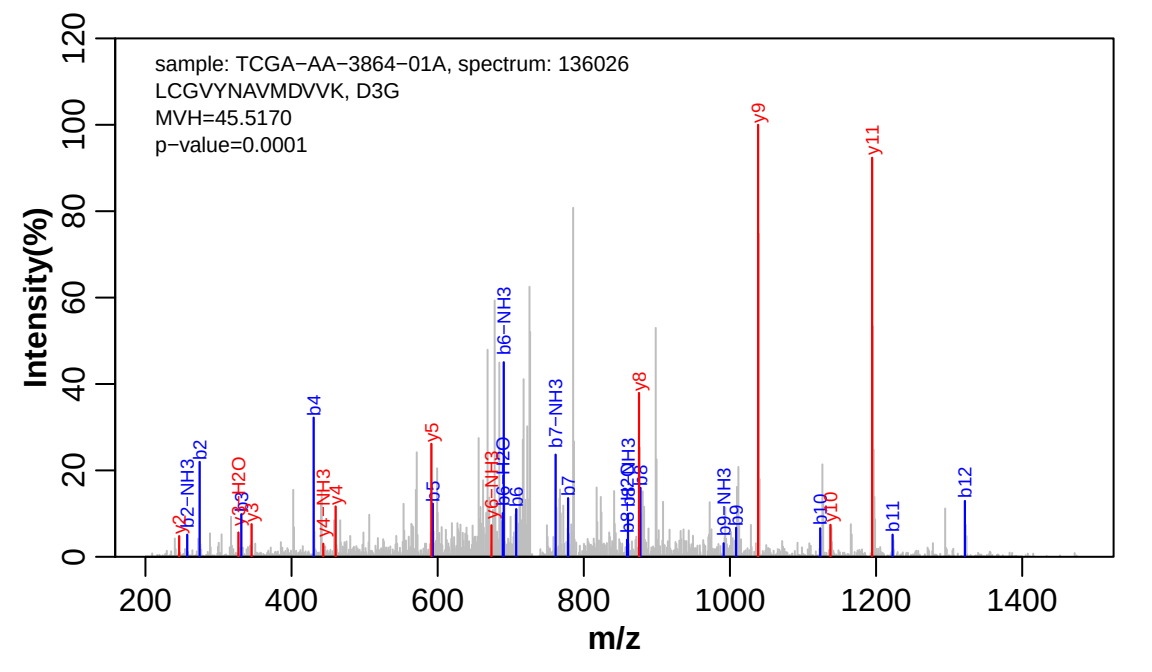

sample: TCGA−AA−3864−01A, spectrum: 108049
HLSQTYQQQYGR, R1H
MVH=68.8205
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b6++−H2O
b6++
y6++−H2O
y6++
y8++−H2O
y8++
b7++−H2O
b7++
y7++
b8++−H2O
b8++
y4
b9++−H2O
b9++
b5
b10++
y5
b6
y6

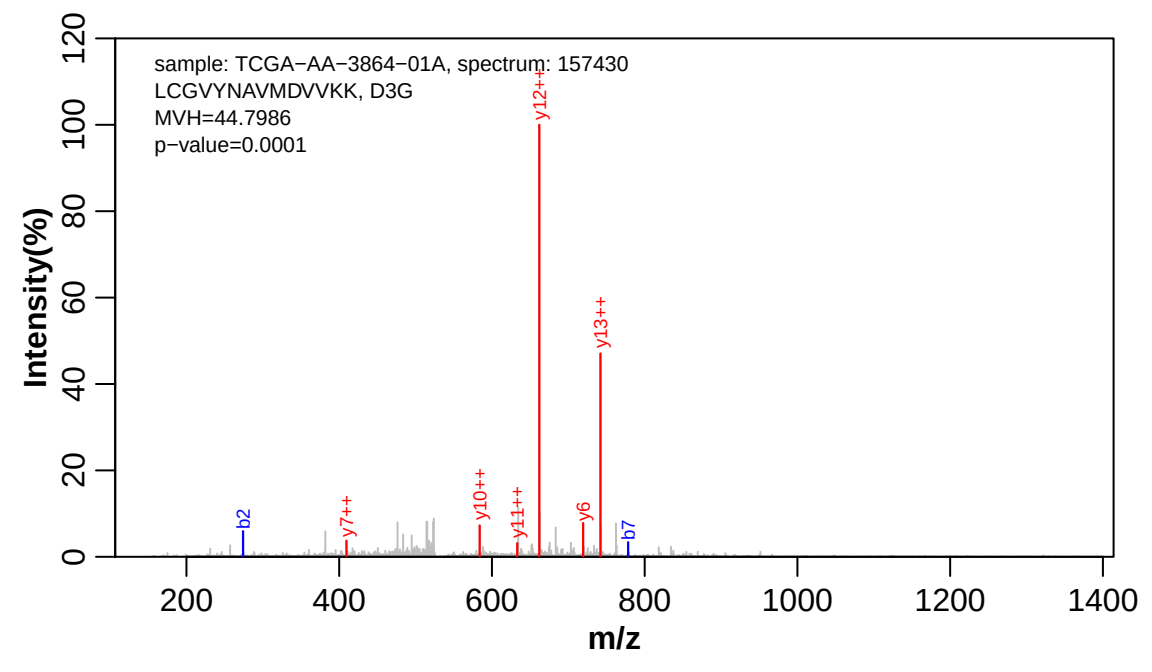

sample: TCGA−AA−3864−01A, spectrum: 76361
KADLLNR, V5I
MVH=39.2553
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b1
y1−NH3
y1
y2−H2O
b3
y3
y4
y5
y6

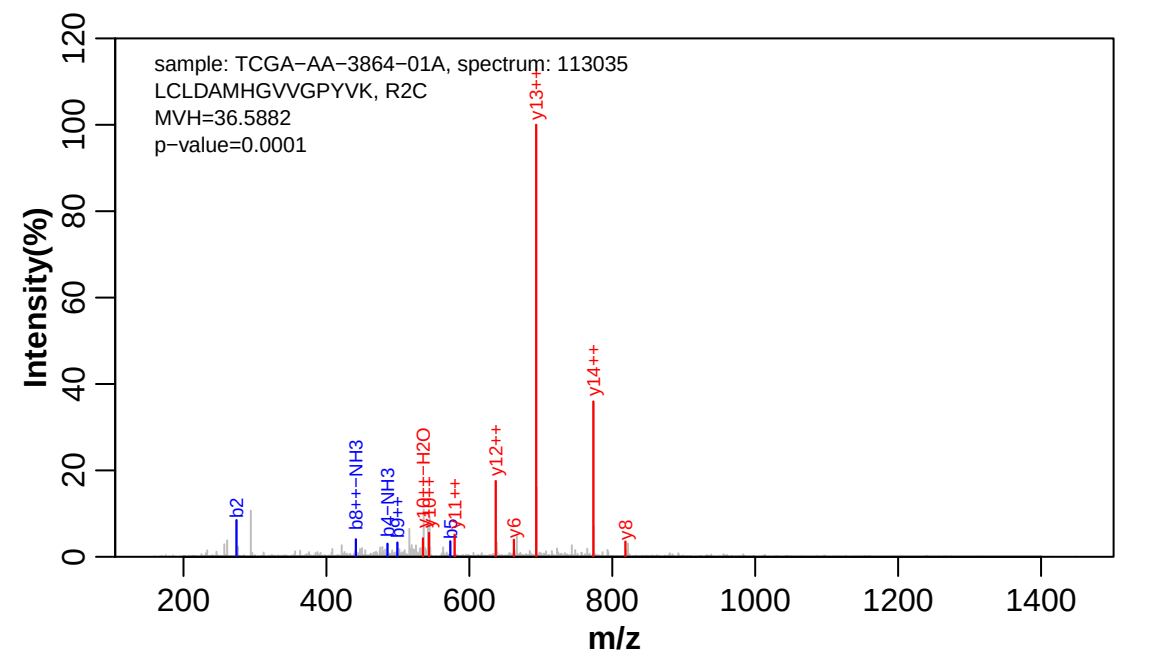

sample: TCGA−AA−3864−01A, spectrum: 79817
KENVATTDTLESTTVGSSV, T17S
MVH=42.9082
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b4
y6
y5
b6−H2O
y7
b6
y8−H2O
y8
b7
b8−H2O
b8
y9
b9−NH3
b9−H2O
b10−H2O
b10
y11
b11
b12
y14
b13
y15
b14
b15−H2O
b15

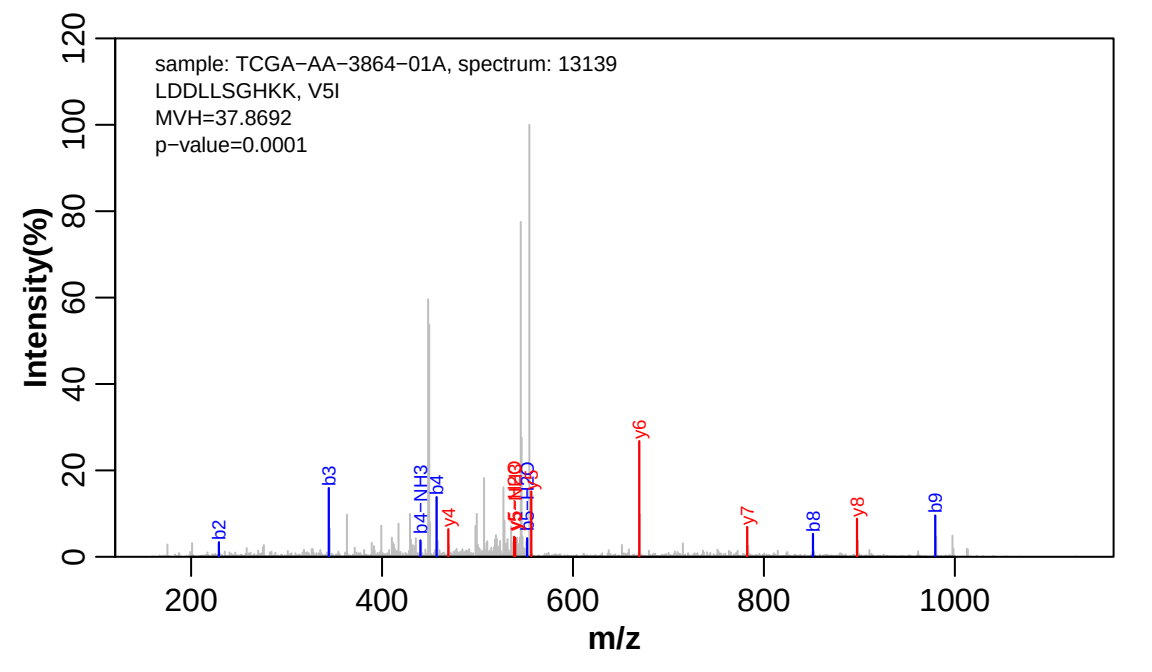

sample: TCGA−AA−3864−01A, spectrum: 88770
KNPDSHYGELLEK, Q6H
MVH=42.9581
p−value=0.0001
Intensity(%)
m/z
y9++
y12++
y11++
b4
y4
y7
y3
b5++−H2O
b6++−H2O
b4−NH3
y8++
y5−NH3
y11++−H2O
b6−NH3
y12++−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200

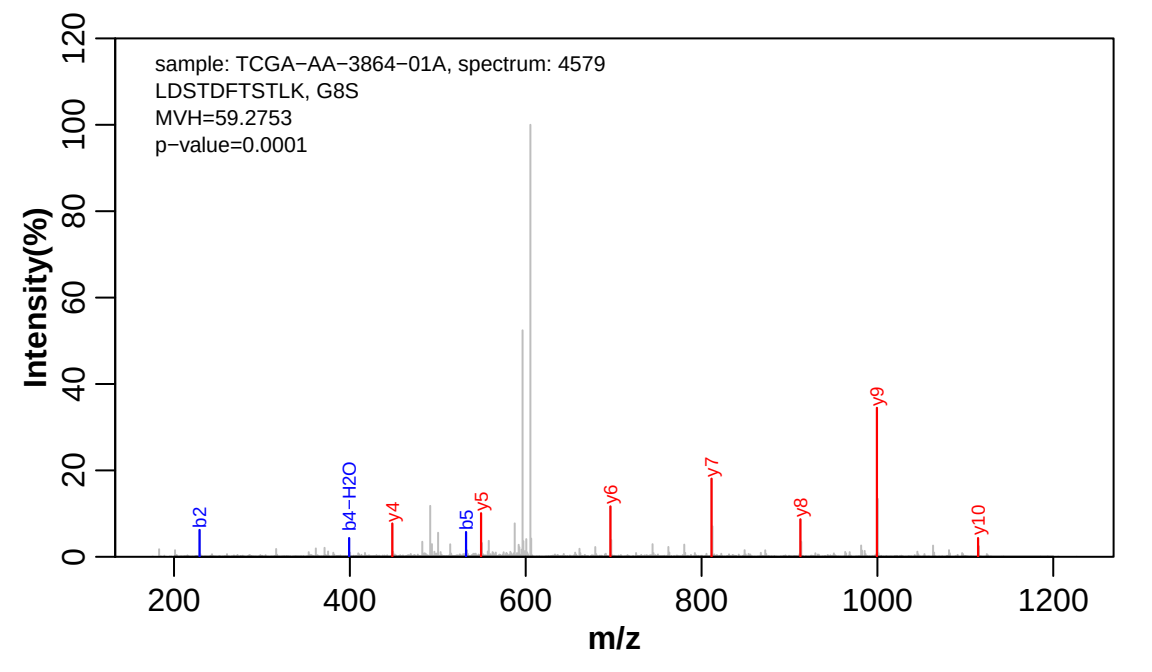

sample: TCGA−AA−3864−01A, spectrum: 50672
LAKVDATEVSDLAQQYGVR, E9V
MVH=40.2518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b18++
b12++
b16++
y6
y7
b13++
b15++
y4
y3
y2
b3
b10−NH3
b12
b13
b14

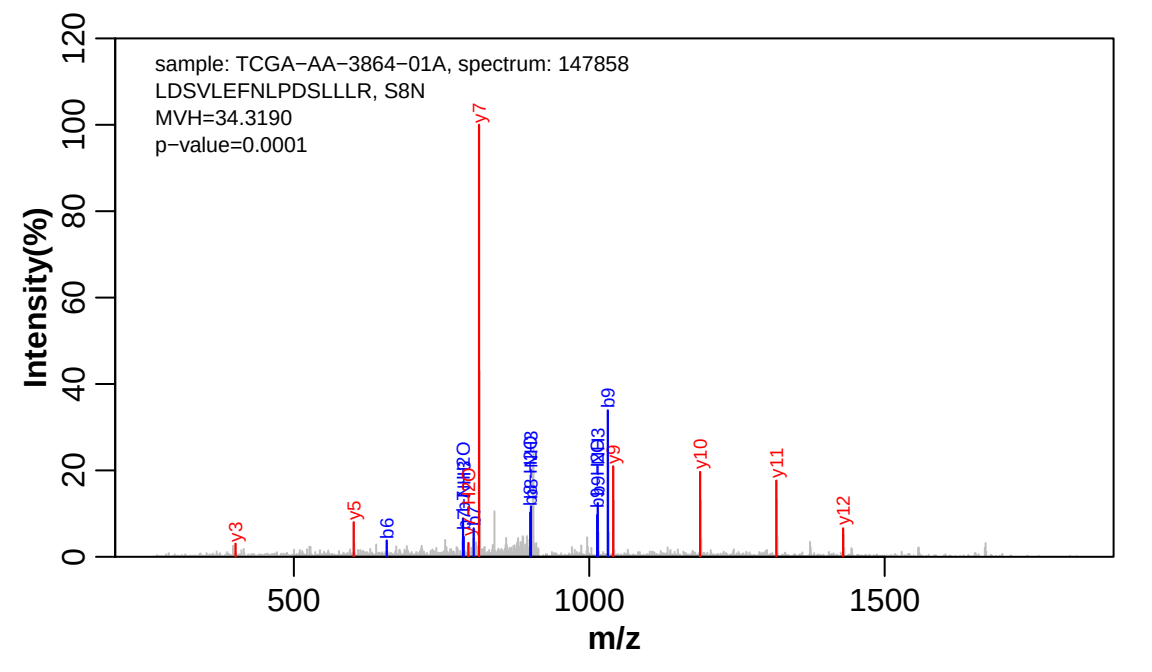

sample: TCGA−AA−3864−01A, spectrum: 136026
LCGVYNAVMDVVK, D3G
MVH=45.5170
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y9
y11
b6−NH3
y8
b4
y5
b7−NH3
b12
b11
y10
b10
b9−NH3
b2
y2
b2−NH3
y3−H2O
y3
y4−NH3
y4
b5
b6
b7

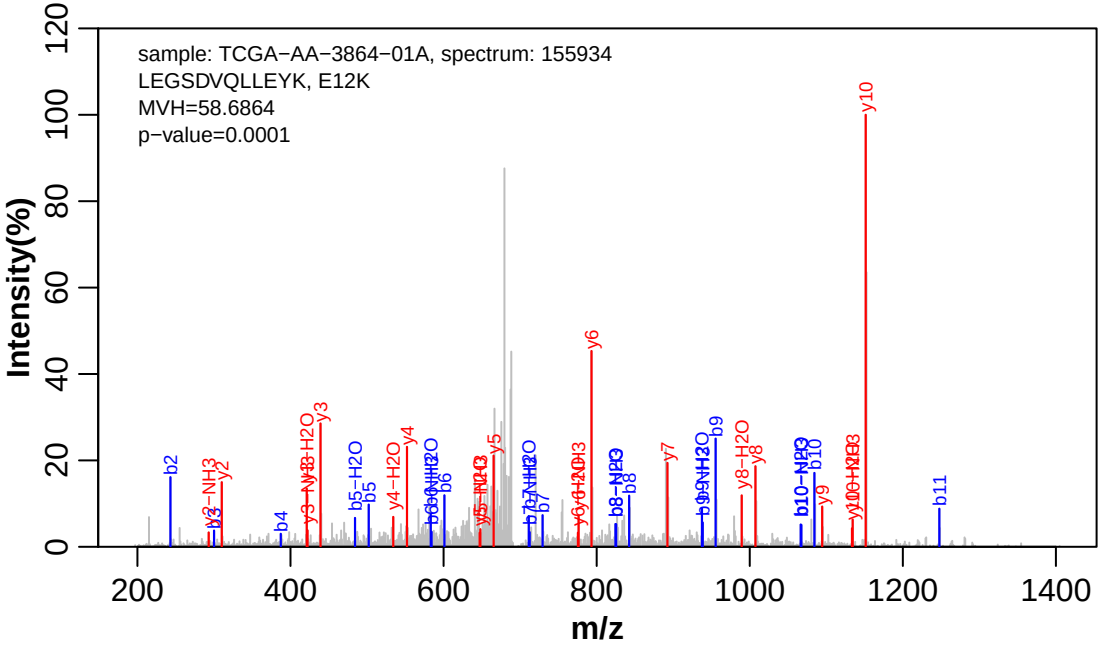

sample: TCGA−AA−3864−01A, spectrum: 157430
LCGVYNAVMDVVKK, D3G
MVH=44.7986
p−value=0.0001
y12++
y13++
y10++
y11++
y7++
y6
b2
b7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

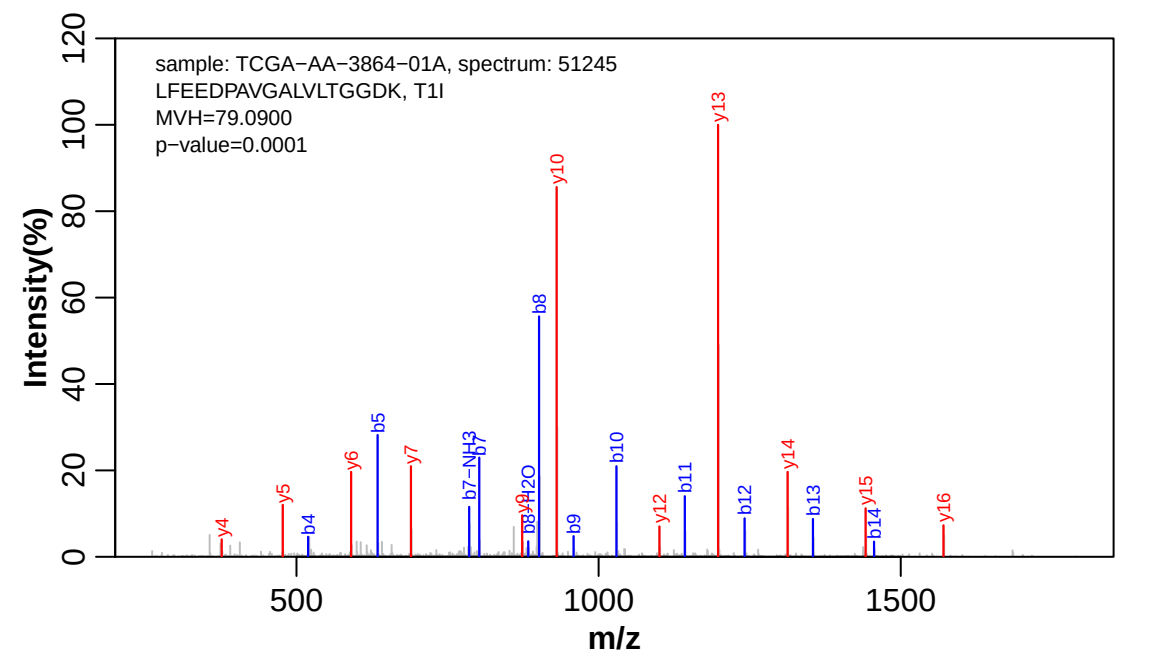

sample: TCGA−AA−3864−01A, spectrum: 113035
LCLDAMHGVVGPYVK, R2C
MVH=36.5882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b8++−NH3
b4−NH3
b9++
y10++−H2O
y10++
b5
y11++
y12++
y6
y13++
y14++
y8

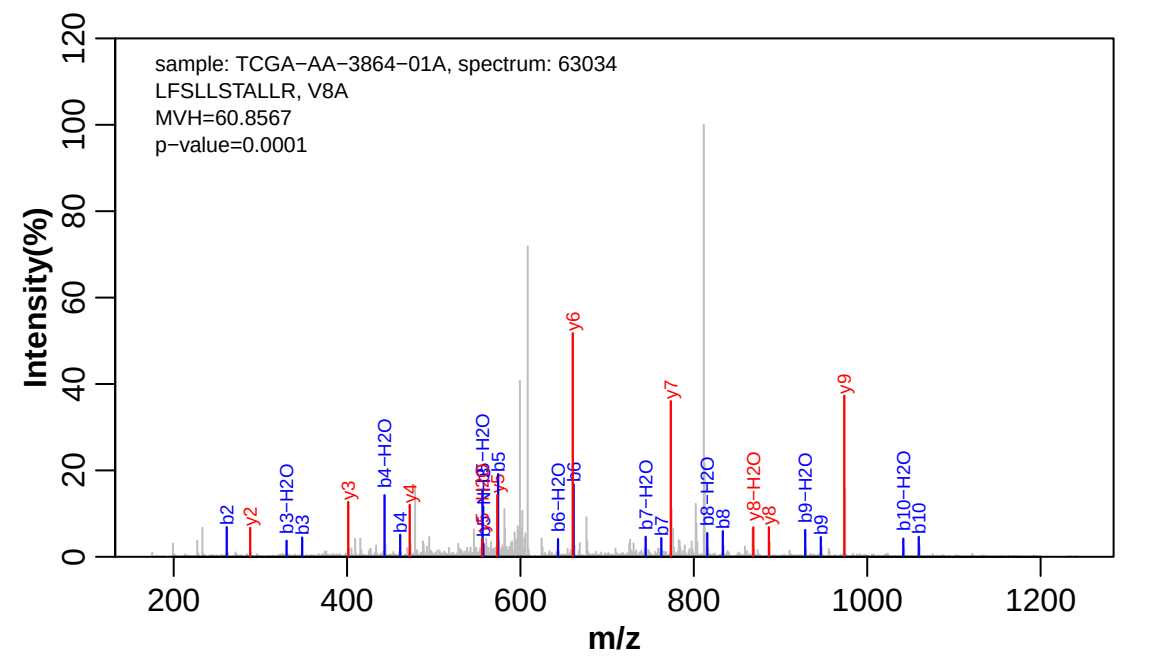

sample: TCGA−AA−3864−01A, spectrum: 13139
LDDLLSGHKK, V5I
MVH=37.8692
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4−NH3
b4
y4
y6
y7
b8
y8
b9

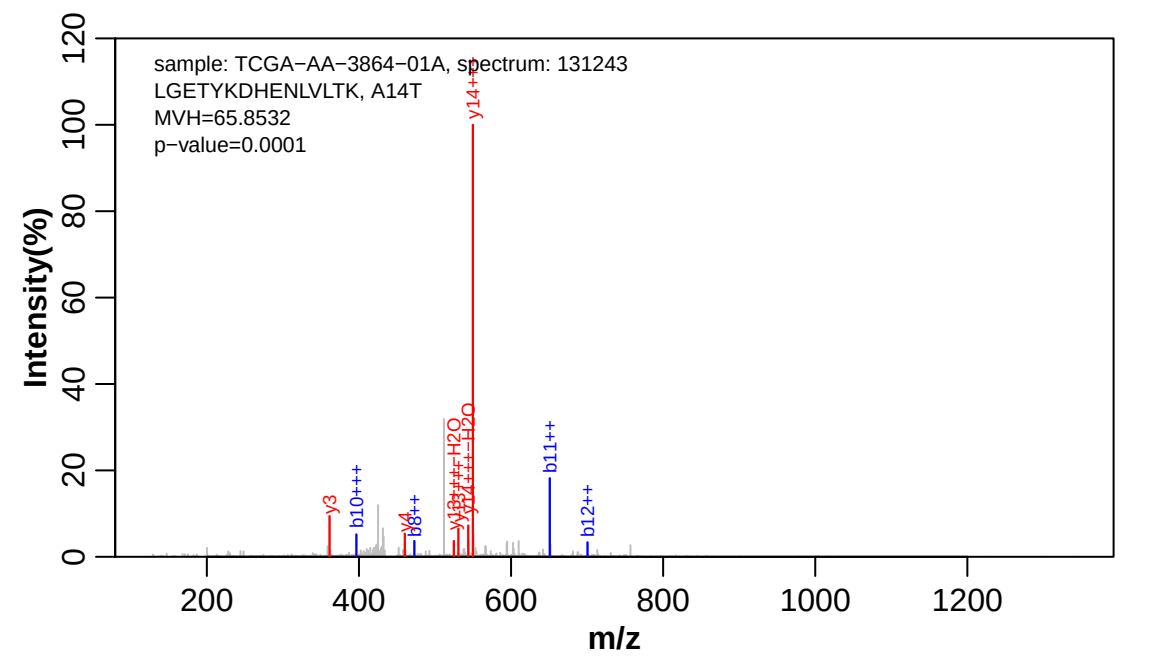

sample: TCGA−AA−3864−01A, spectrum: 4579
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4−H2O
y4
b5
y5
y6
y7
y8
y9
y10

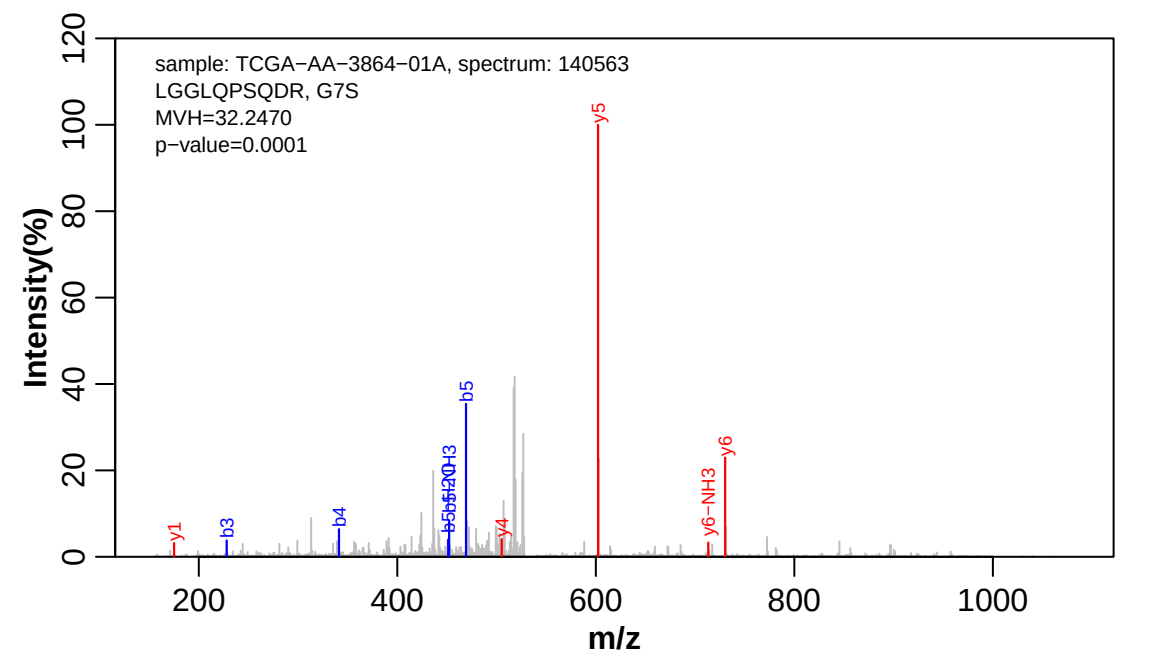

sample: TCGA−AA−3864−01A, spectrum: 147858
LDSVLEFNLPDSLLLR, S8N
MVH=34.3190
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y5
b6
b9
y9
y10
y11
y12

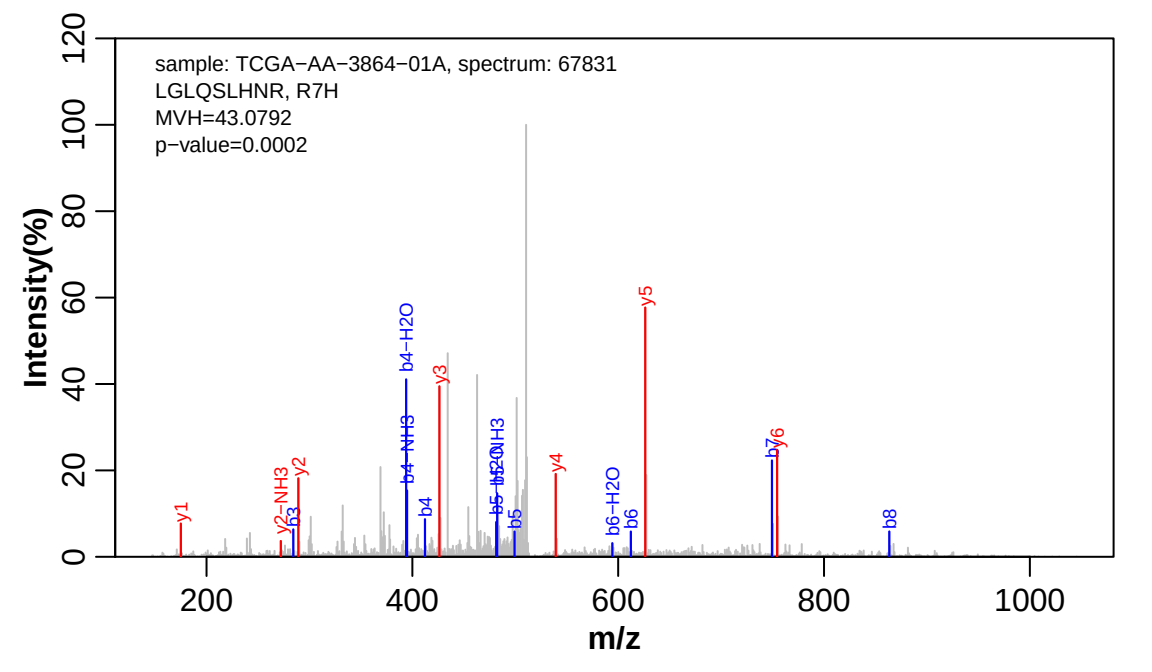

sample: TCGA−AA−3864−01A, spectrum: 155934
LEGSDVQLLEYK, E12K
MVH=58.6864
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b4
y3
b5−H2O
b5
y4−H2O
y4
b6
y5
y6
b7
y7
b8
b9
y8−H2O
y8
b10
y9
y10
b11

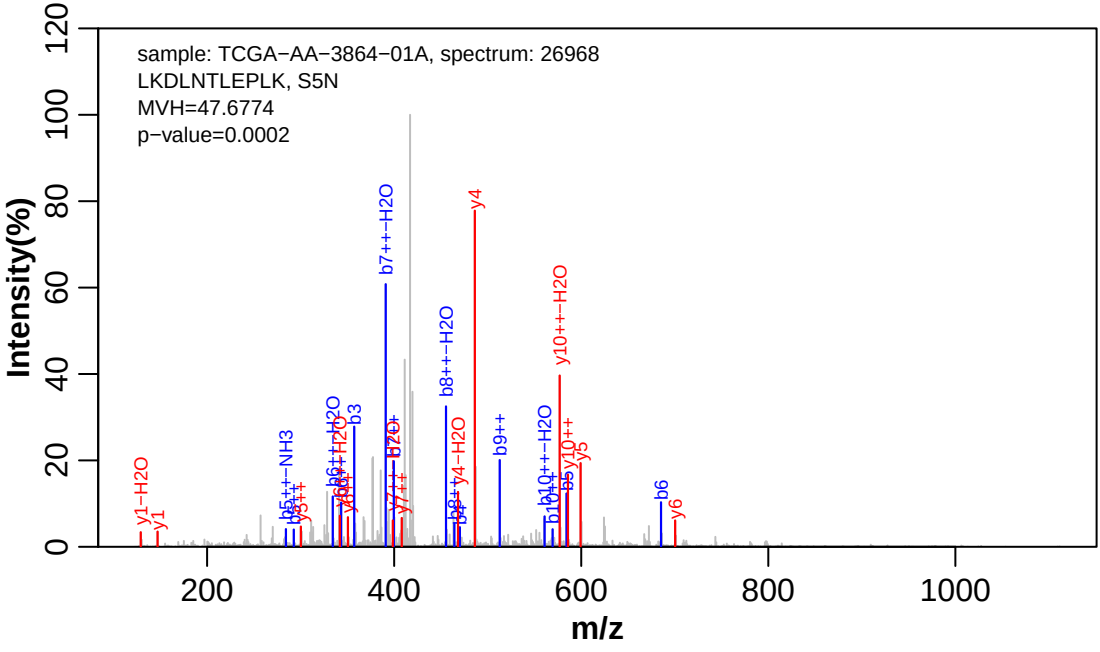

sample: TCGA−AA−3864−01A, spectrum: 51245
LFEEDPAVGALVLTGGDK, T1I
MVH=79.0900
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5
y7
b7−NH3
b7
y8
b8−H2O
b8
y10
b8
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

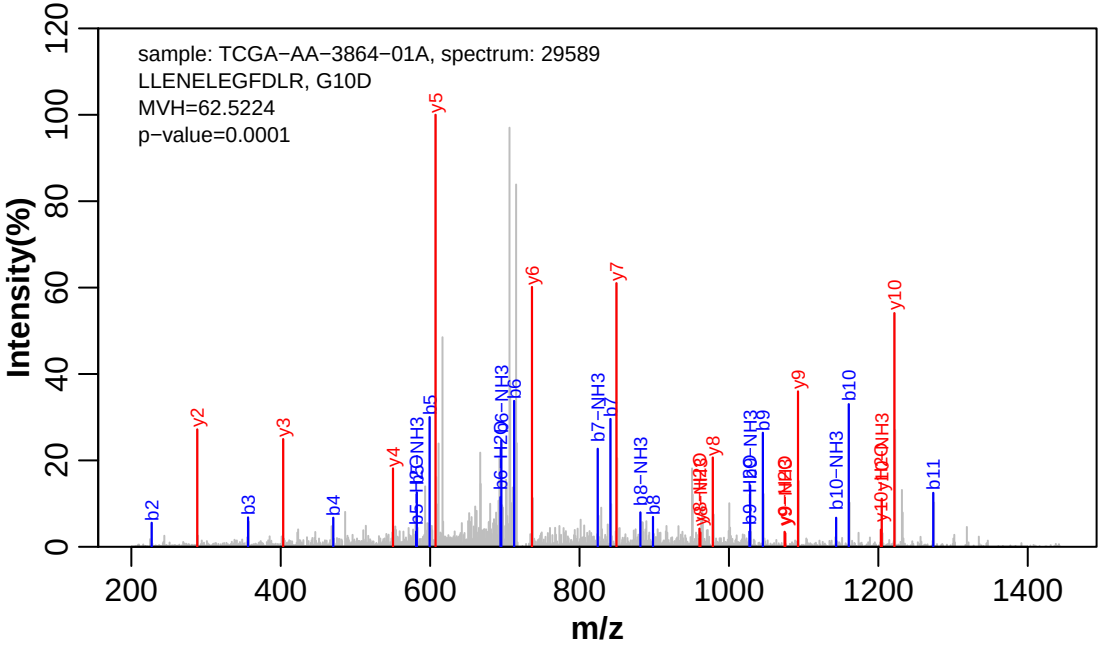

sample: TCGA−AA−3864−01A, spectrum: 63034
LFSLLSTALLR, V8A
MVH=60.8567
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
y5
b5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

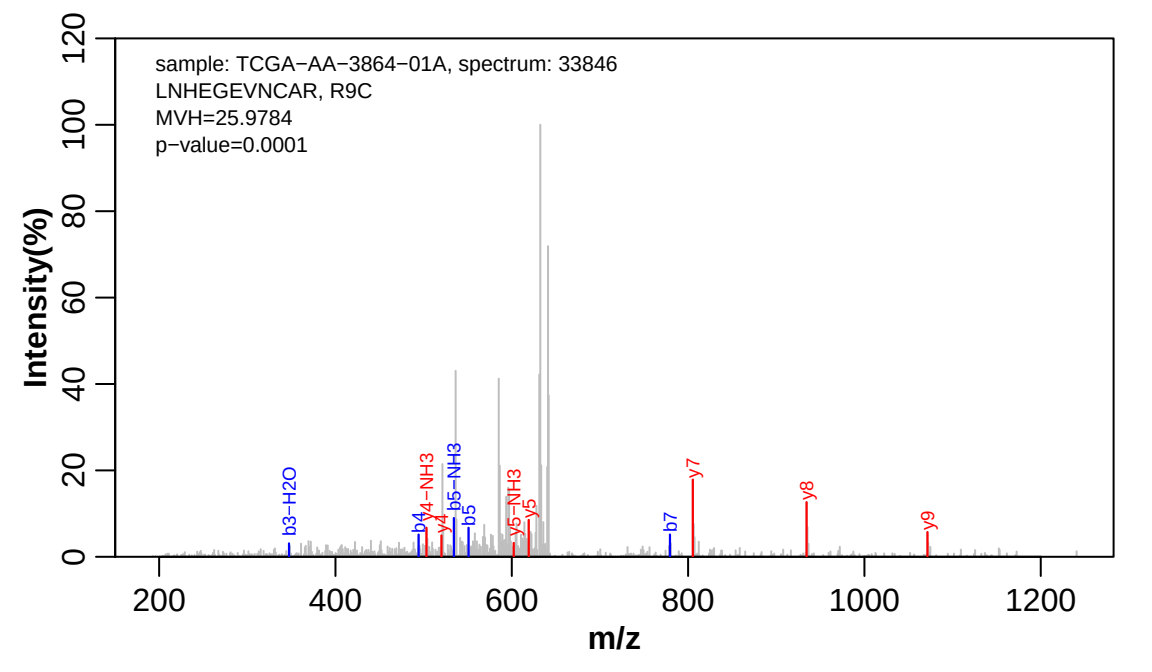

sample: TCGA−AA−3864−01A, spectrum: 131243
LGETYKDHENLVLTK, A14T
MVH=65.8532
p−value=0.0001
Intensity(%)
m/z
y14++
y3
b10+++
y4
b8++
b11++
b12++
0
20
40
60
80
100
120
200
400
600
800
1000
1200

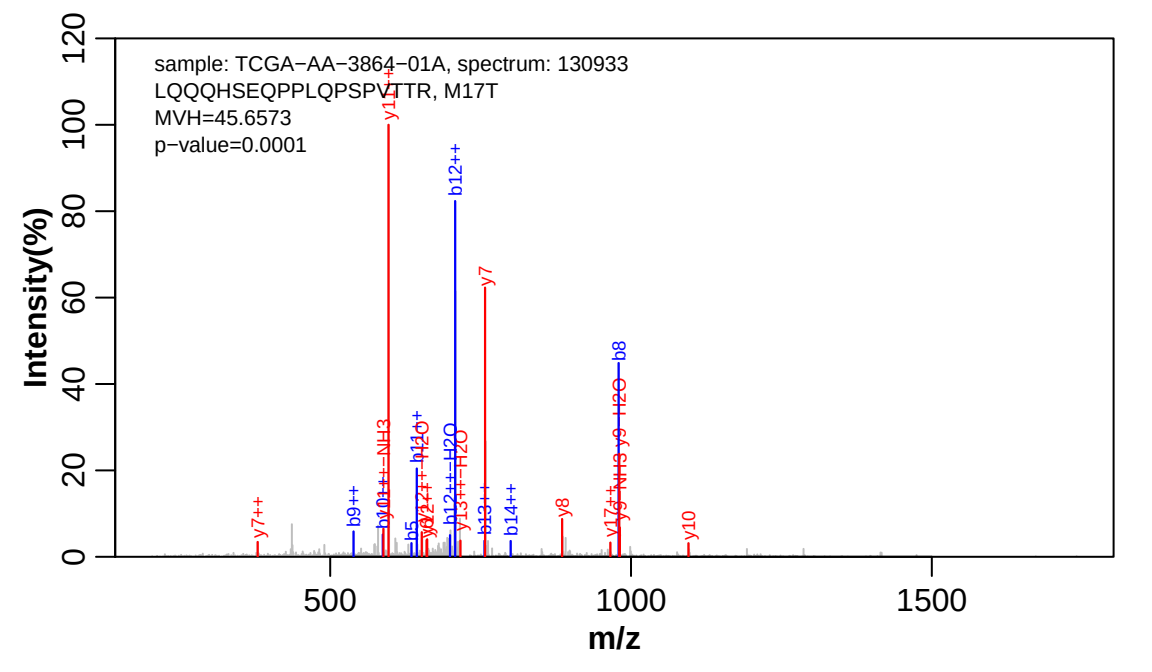

sample: TCGA−AA−3864−01A, spectrum: 140563
LGGLQPSQDR, G7S
MVH=32.2470
p−value=0.0001
Intensity(%)
m/z
y5
y6
y6−NH3
b5
y4
b3
b4
y1
0
20
40
60
80
100
120
200
400
600
800
1000

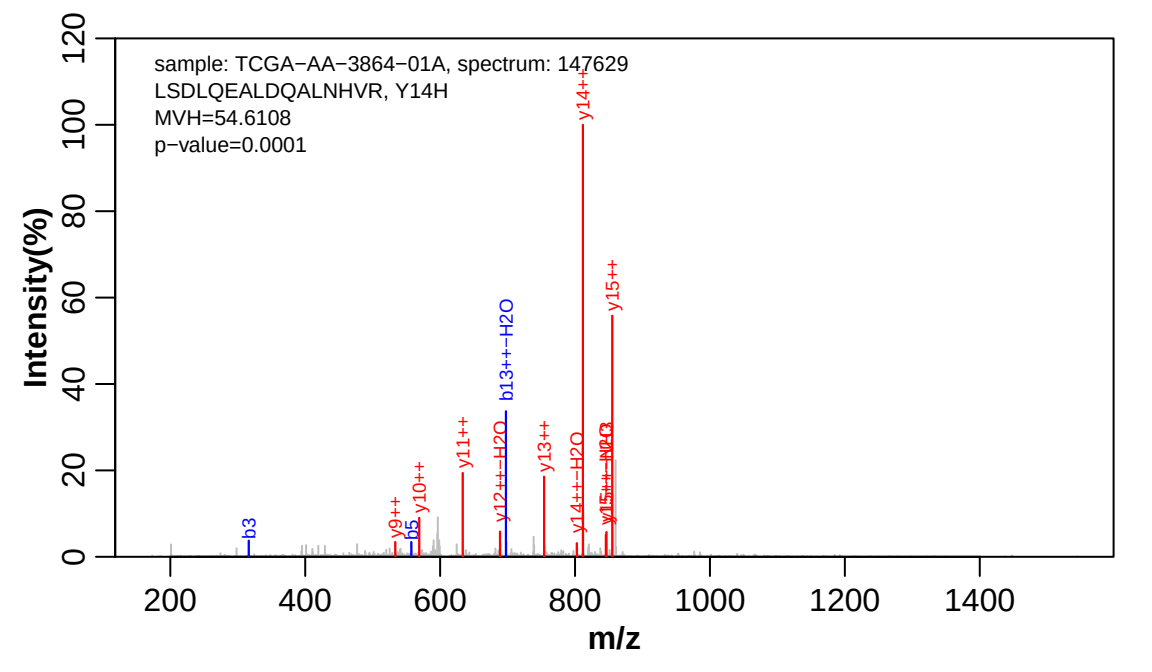

sample: TCGA−AA−3864−01A, spectrum: 67831
LGLQSLHNR, R7H
MVH=43.0792
p−value=0.0002
Intensity(%)
m/z
y1
y2−NH3
b3
y2
b4−H2O
b4−NH3
b4
y3
b5−H2O
b5−NH3
b5
y4
b6−H2O
b6
y5
b7
y6
b8

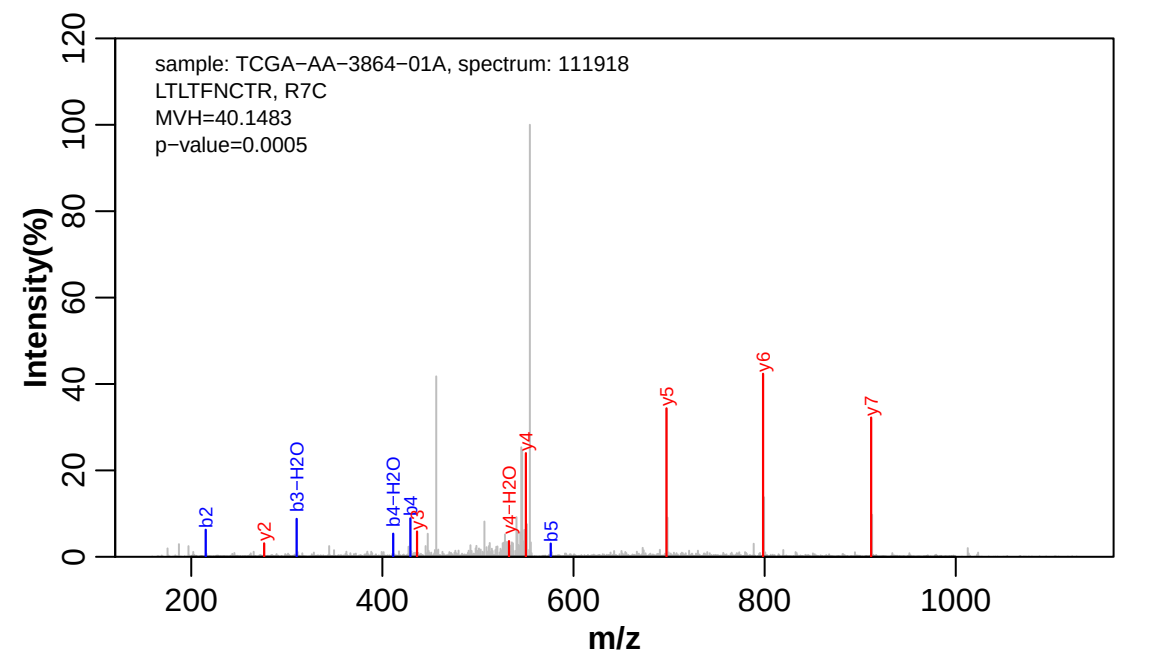

sample: TCGA−AA−3864−01A, spectrum: 26968
LKDLNTLEPLK, S5N
MVH=47.6774
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1−H2O
y1
b5++−NH3
b3++
b6++−H2O
b3
y6++
y7++
b7++−H2O
b8++−H2O
y4
b8++
y4−H2O
b9++
b10++−H2O
y10++−H2O
y10++
y5
b6
y6

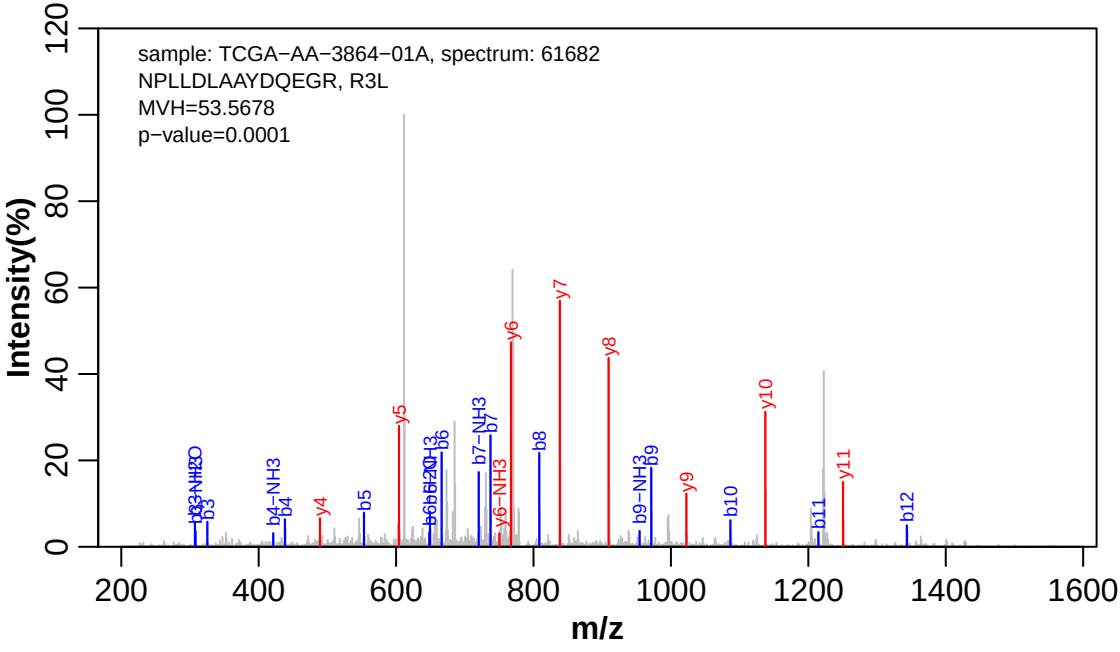

sample: TCGA−AA−3864−01A, spectrum: 29589
LLENELEGFDLR, G10D
MVH=62.5224
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
b5−NH3
b5
y5
b6−H2O−NH3
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−H2O−NH3
b9
y9
b10−NH3
b10
y10
b11

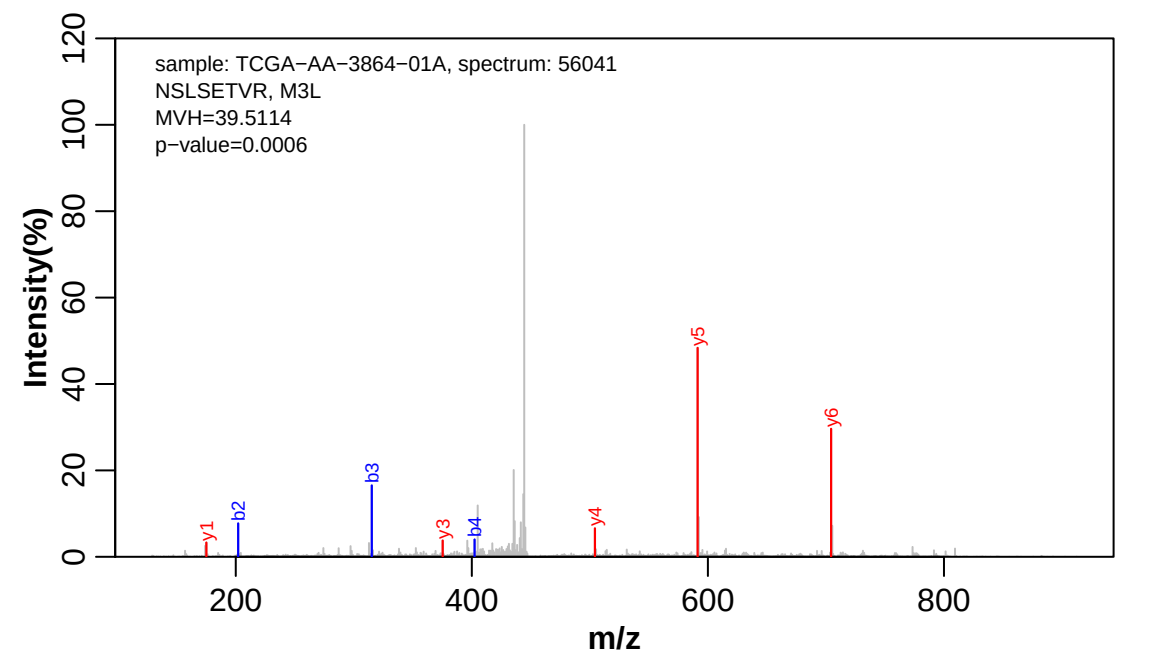

sample: TCGA−AA−3864−01A, spectrum: 33846
LNHEGEVNCAR, R9C
MVH=25.9784
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3−H2O
b4−NH3
y4
b5−NH3
b5
y5−NH3
y5
b7
y7
y8
y9

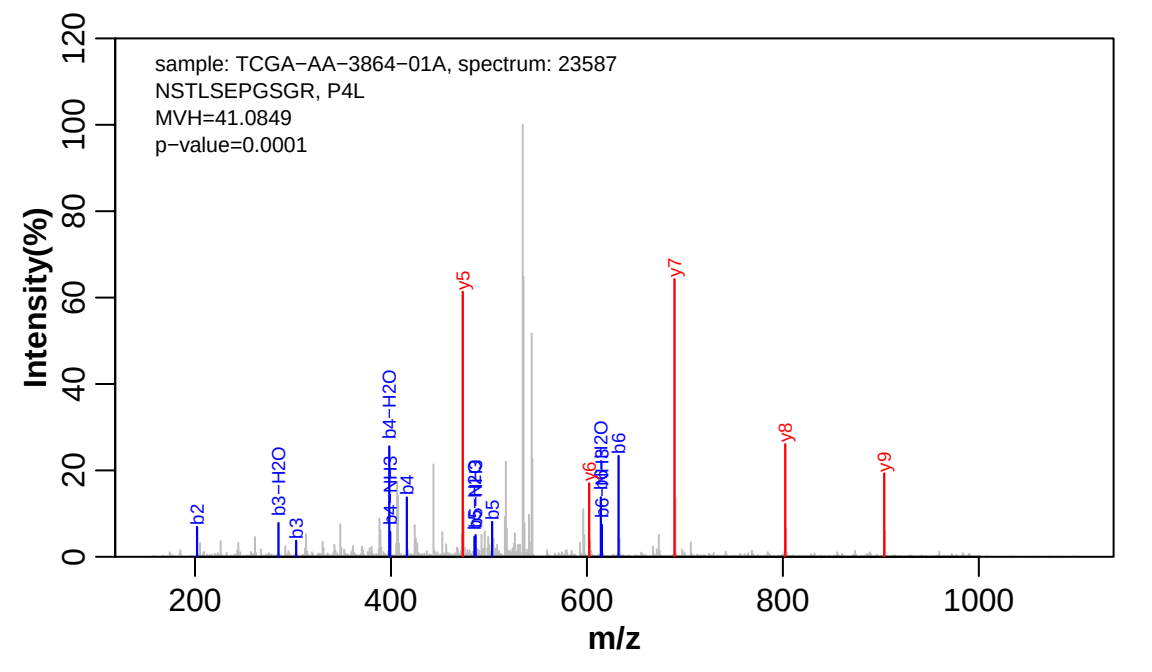

sample: TCGA−AA−3864−01A, spectrum: 130933
LQQQHSEQPPLQPSPVTTR, M17T
MVH=45.6573
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b9++
b10++−NH3
y11++
b5
y12++−H2O
b12++
b12++−H2O
y13++−H2O
b13++
b14++
y7
y8
b8
y9++−NH3
y9++−H2O
y10

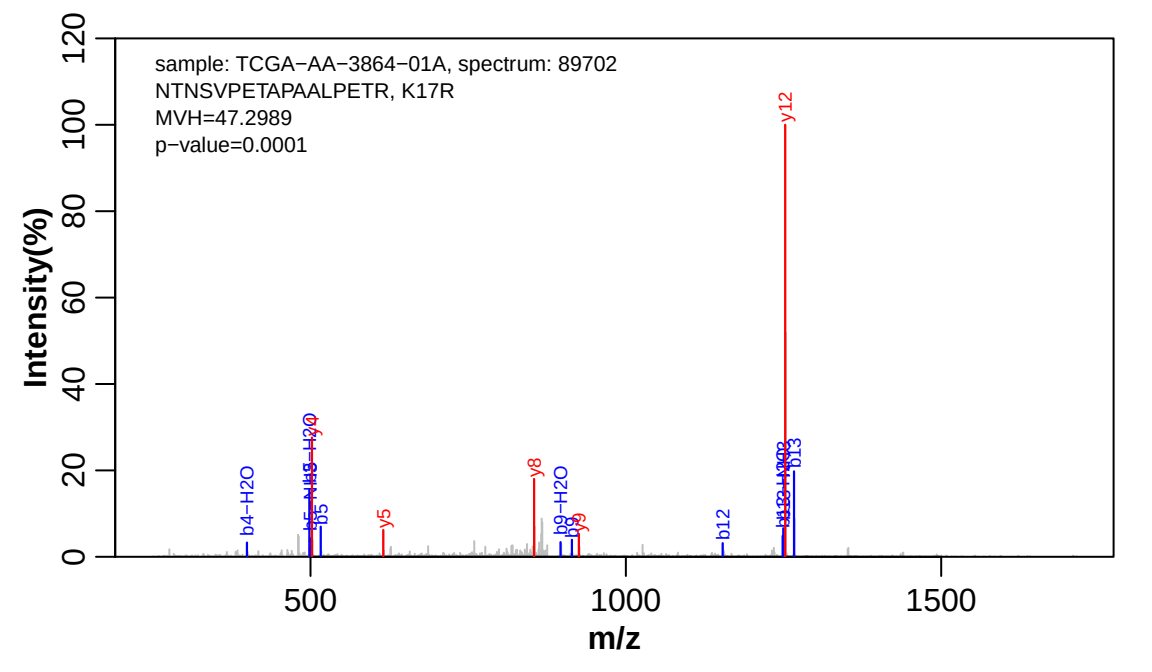

sample: TCGA−AA−3864−01A, spectrum: 147629
LSDLQEALDQALNHVR, Y14H
MVH=54.6108
p−value=0.0001
Intensity(%)
m/z
b3
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++

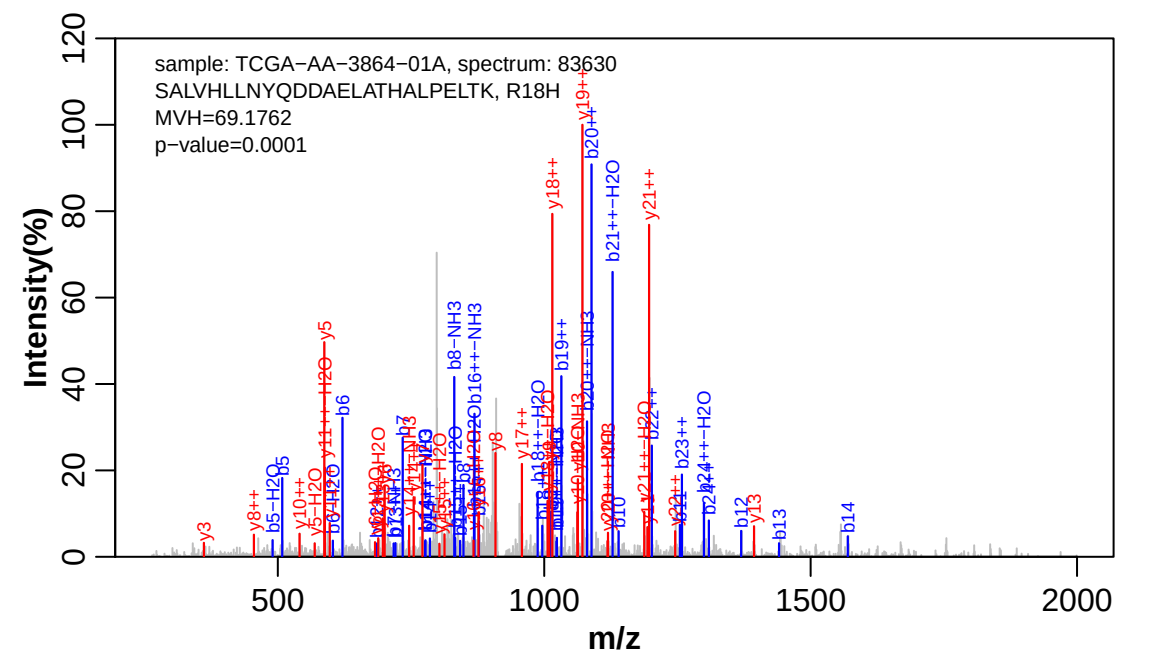

sample: TCGA−AA−3864−01A, spectrum: 111918
LTLTFNCTR, R7C
MVH=40.1483
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3−H2O
b4−H2O
y3
b4
y4−H2O
y4
b5
y5
y6
y7

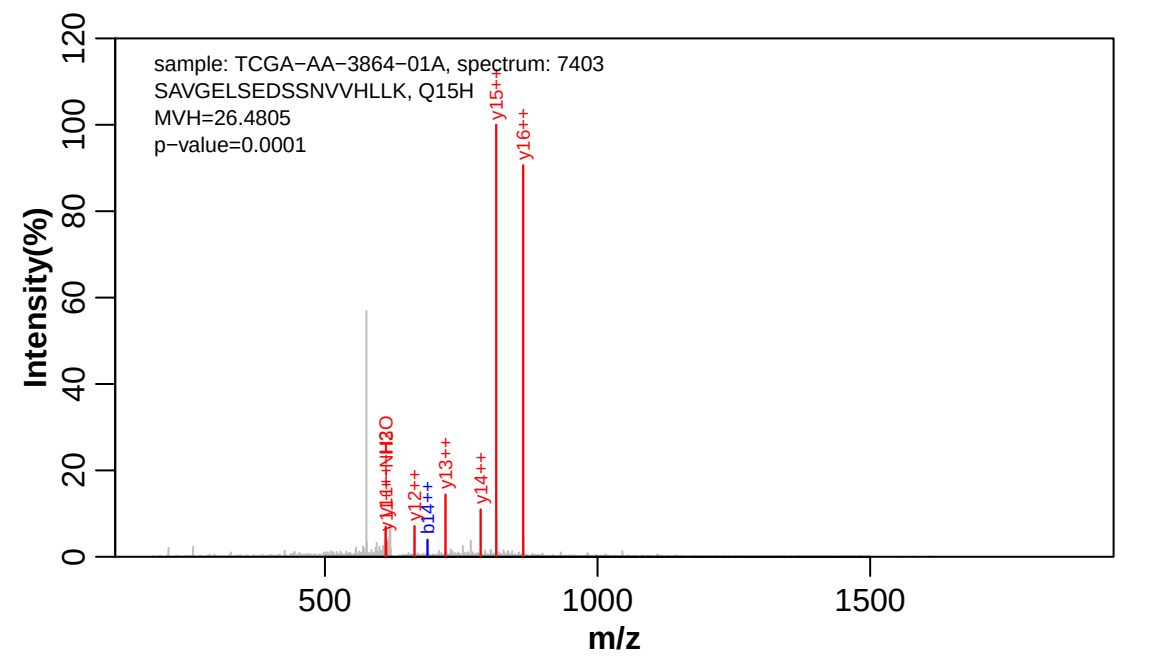

sample: TCGA−AA−3864−01A, spectrum: 61682
NPLLDLAAYDQEGR, R3L
MVH=53.5678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4−NH3
b4
y4
b5
y5
b6
b7−NH3
b7
y6−NH3
y6
b8
y7
y8
b9−NH3
b9
y9
y10
b10
b11
y11
b12

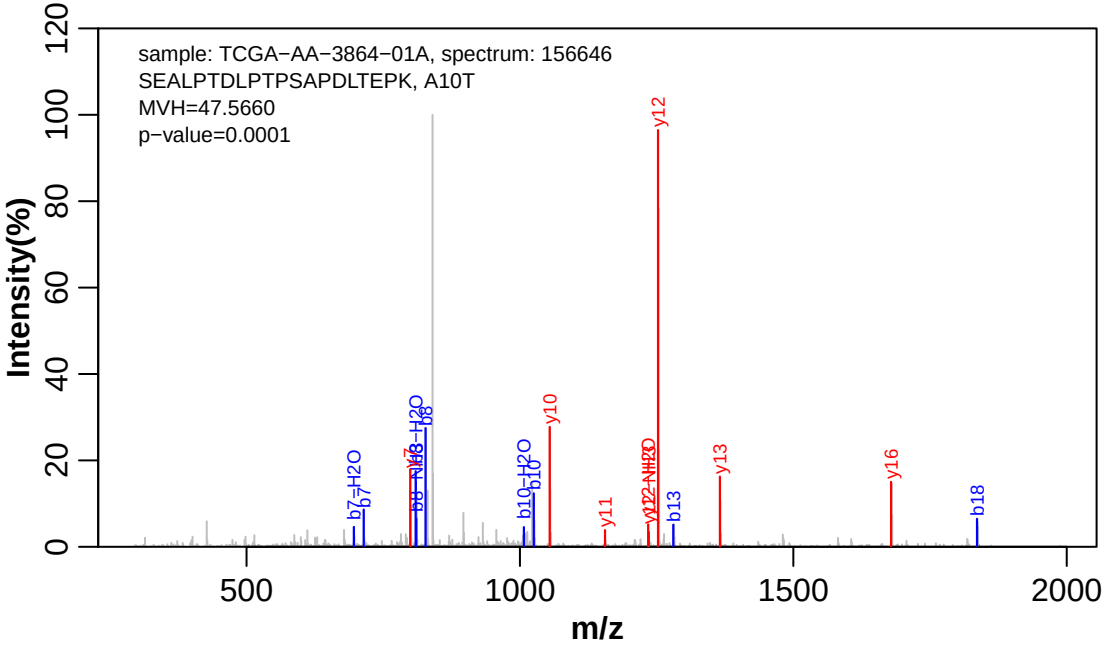

sample: TCGA−AA−3864−01A, spectrum: 56041
NSLSETVR, M3L
MVH=39.5114
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
b4
y4
y5
y6

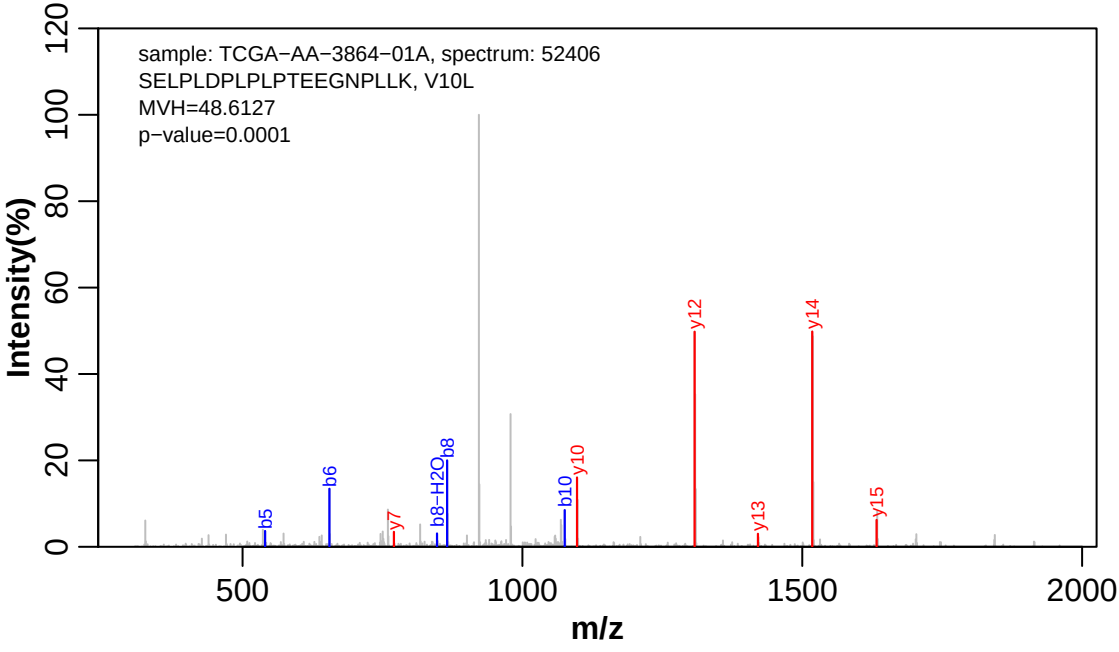

sample: TCGA−AA−3864−01A, spectrum: 23587
NSTLSEPGSGR, P4L
MVH=41.0849
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
b3
b4−H2O
b4−NH3
b4
b5−NH3
b5
y5
y6
b6−NH3
b6−H2O
b6
y7
y8
y9

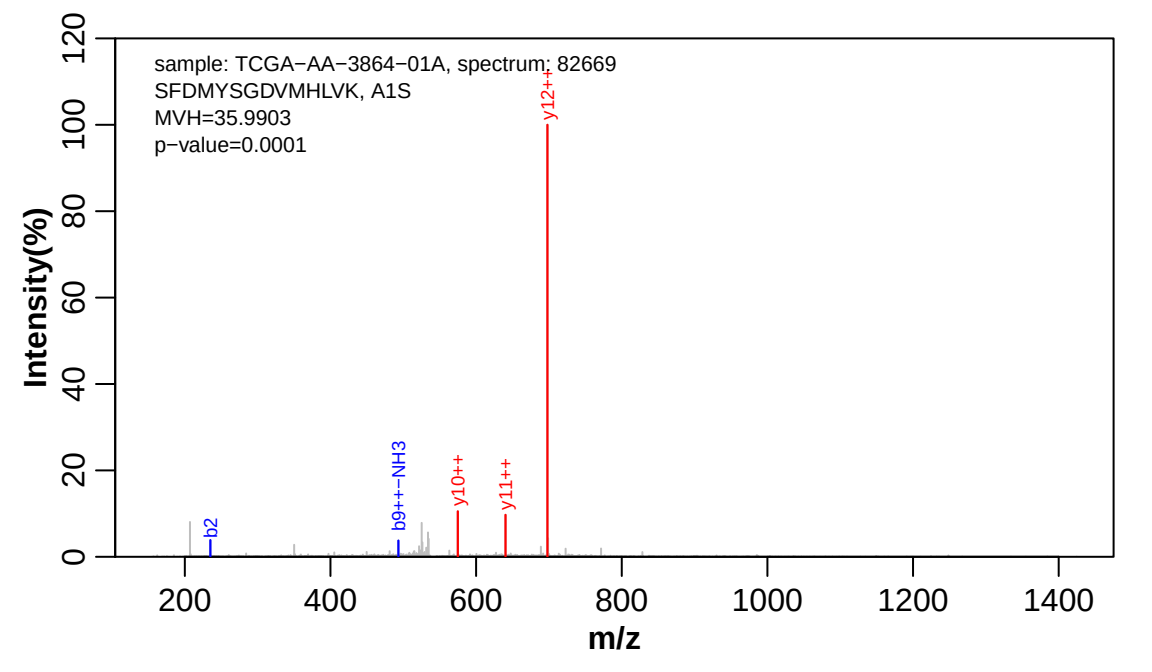

sample: TCGA−AA−3864−01A, spectrum: 89702
NTNSVPETAPAALPETR, K17R
MVH=47.2989
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
b4−H2O
b8−H2O
b12
b13

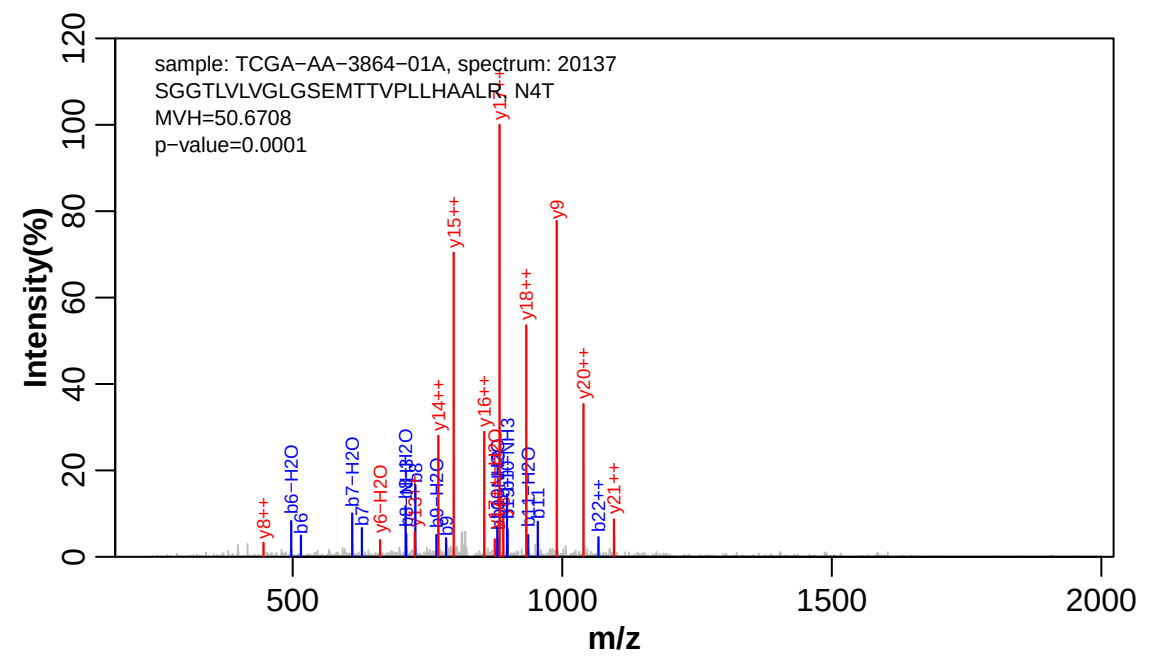

sample: TCGA−AA−3864−01A, spectrum: 83630
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=69.1762
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y8++
b5−H2O
b5
y10++
y5−H2O
b6
y5
b8−NH3
b16++−NH3
y8
y17++
y18++
b19++
b20++
y19++
b21++−H2O
y21++
b10
b22++
b23++
b24++−H2O
b12
y13
b13
b14

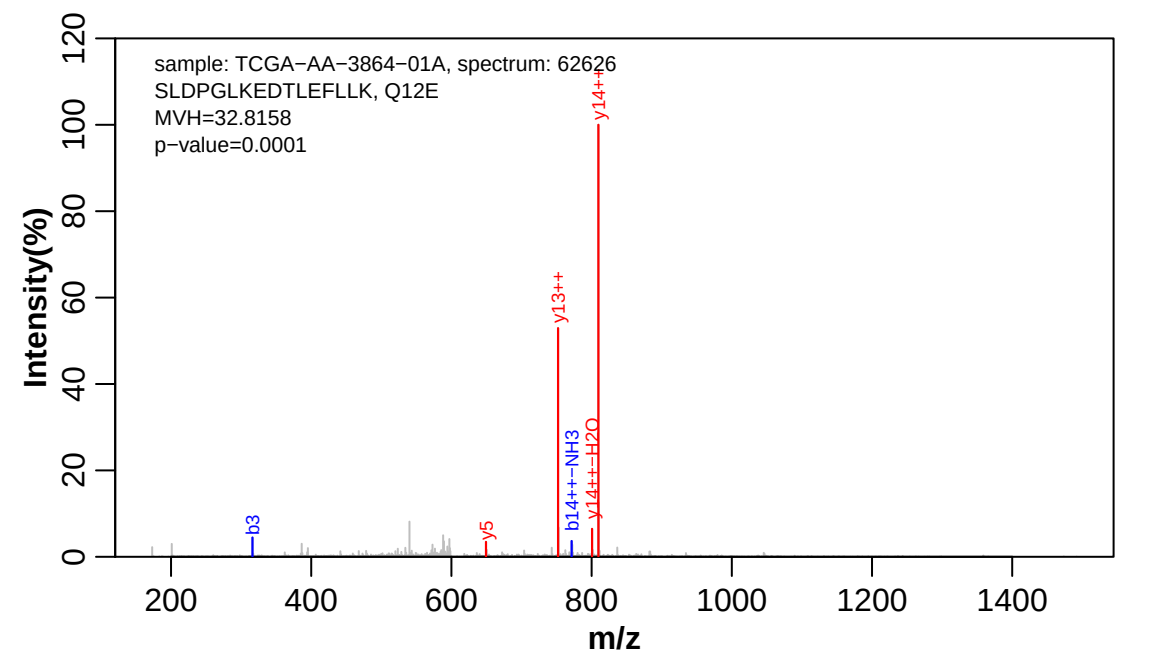

sample: TCGA−AA−3864−01A, spectrum: 7403
SAVGELSEDSSNVVHLLK, Q15H
MVH=26.4805
p−value=0.0001
y15++
y16++
y13++
y14++
y12++
b14++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

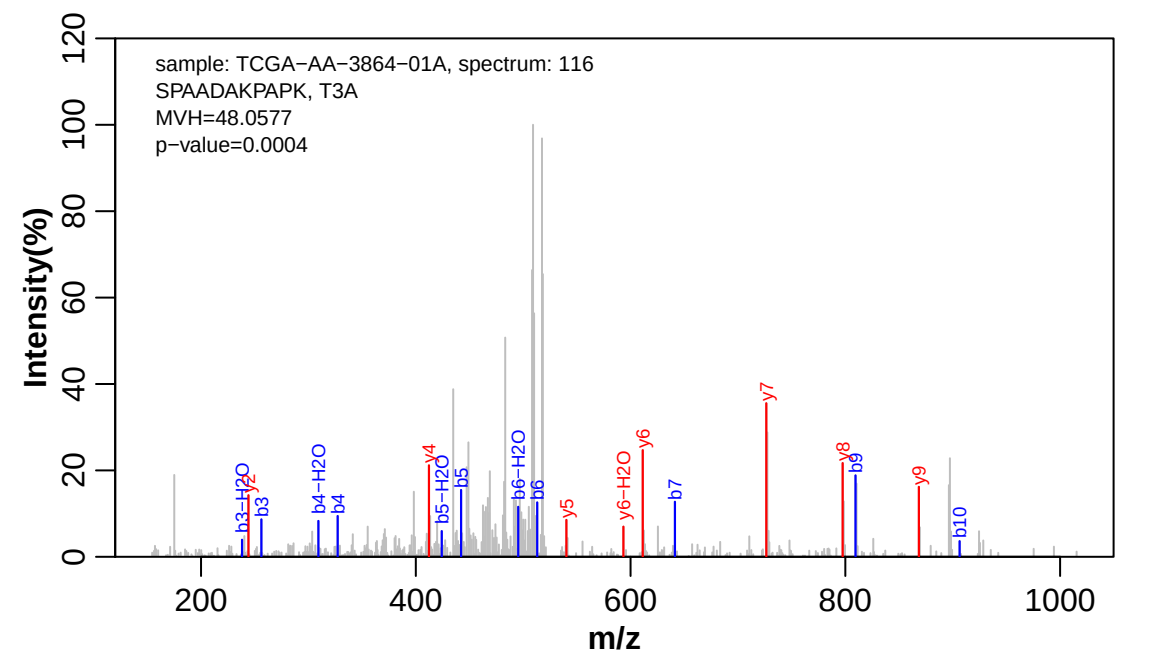

sample: TCGA−AA−3864−01A, spectrum: 156646
SEALPTDLPTPSAPDLTEPK, A10T
MVH=47.5660
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y13
y16
y11
b13
b18
b7−H2O
b7
b8−NH3−H2O
b8
b10−H2O
b10

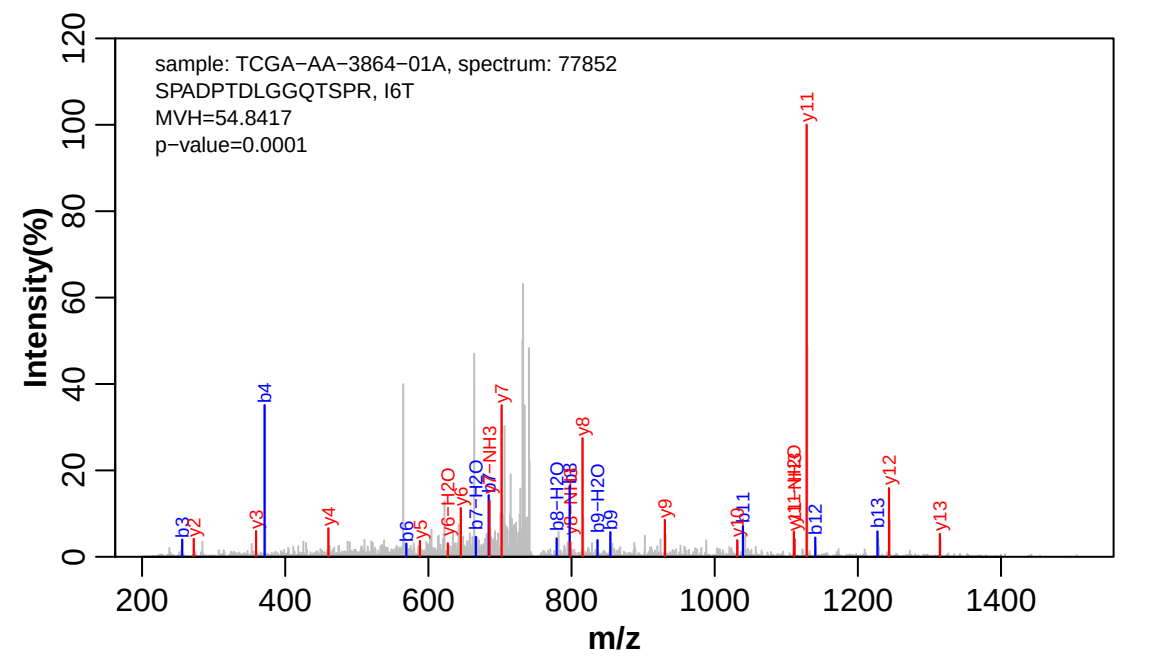

sample: TCGA−AA−3864−01A, spectrum: 52406
SELPLDPLPLPTEEGNPLLK, V10L
MVH=48.6127
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b5
b6
y7
b8−H2O
b8
b10
y10
y12
y13
y14
y15

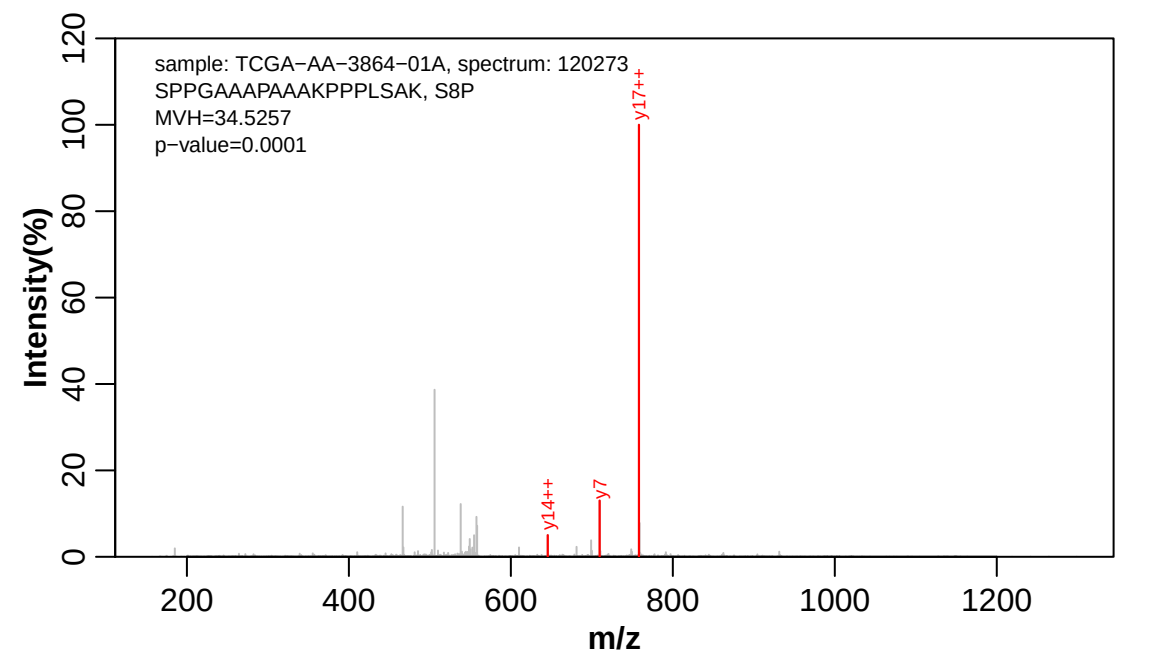

sample: TCGA−AA−3864−01A, spectrum: 82669
SFDMYSGDVMHLVK, A1S
MVH=35.9903
p−value=0.0001
b2
b9++−NH3
y10++
y11++
y12++
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

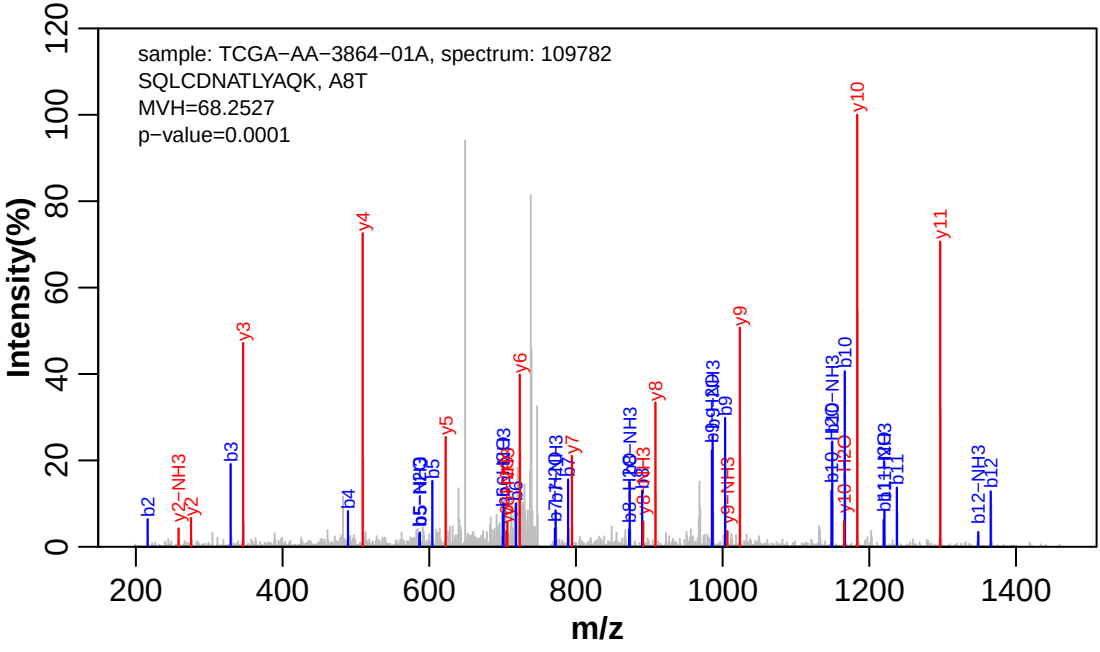

sample: TCGA−AA−3864−01A, spectrum: 20137
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=50.6708
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8++
b6
b6−H2O
b7
b7−H2O
y6−H2O
y14++
y15++
y16++
y12++
y9
y18++
y20++
b11
b11−H2O
b22++
y21++

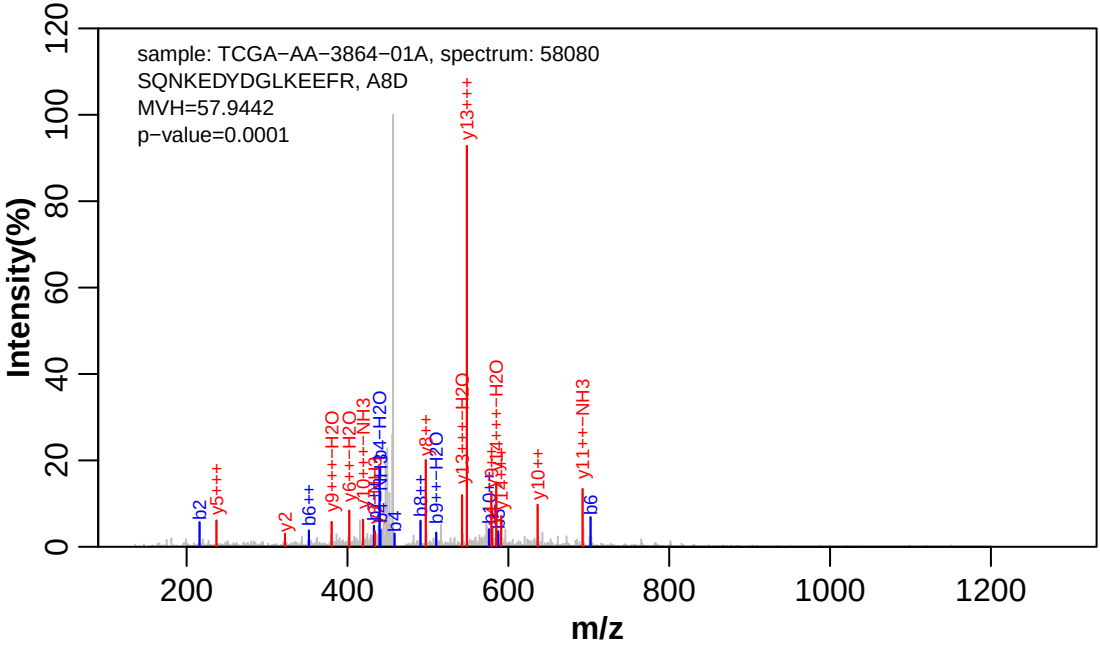

sample: TCGA−AA−3864−01A, spectrum: 62626
SLDPGLKEDTLEFLLK, Q12E
MVH=32.8158
p−value=0.0001
Intensity(%)
m/z
b3
y5
y13++
b14++−NH3
y14++−H2O
y14++

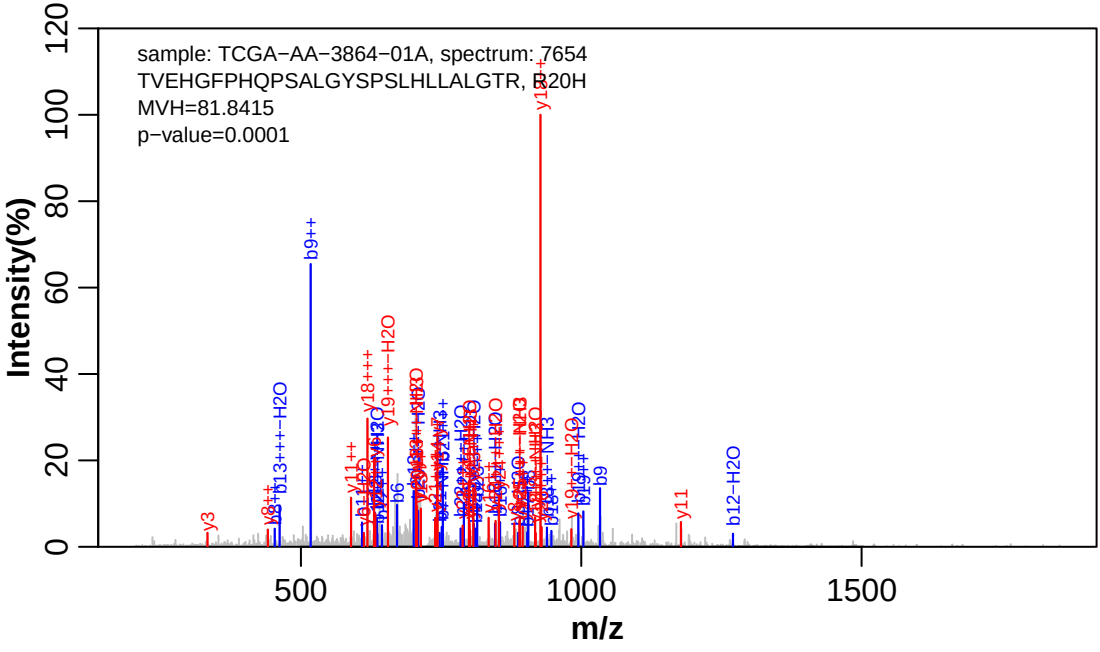

sample: TCGA−AA−3864−01A, spectrum: 116
SPAADAKPAPK, T3A
MVH=48.0577
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3−H2O
y2
b3
b4−H2O
b4
y4
b5−H2O
b5
b6−H2O
b6
y5
y6−H2O
y6
b7
y7
y8
b9
y9
b10

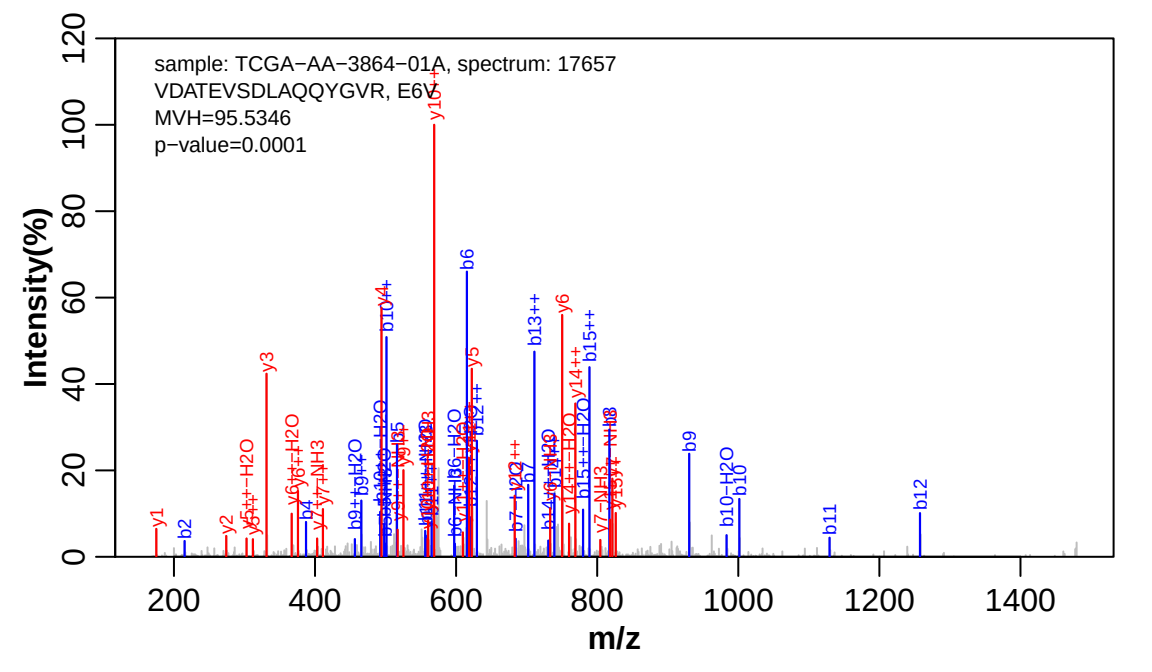

sample: TCGA−AA−3864−01A, spectrum: 77852
SPADPTDLGGQTSPR, I6T
MVH=54.8417
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6−H2O
y6
b7−H2O
b7
y7−NH3
y7
b8−H2O
b8−NH3
b8
y8
b9−H2O
b9
y9
y10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

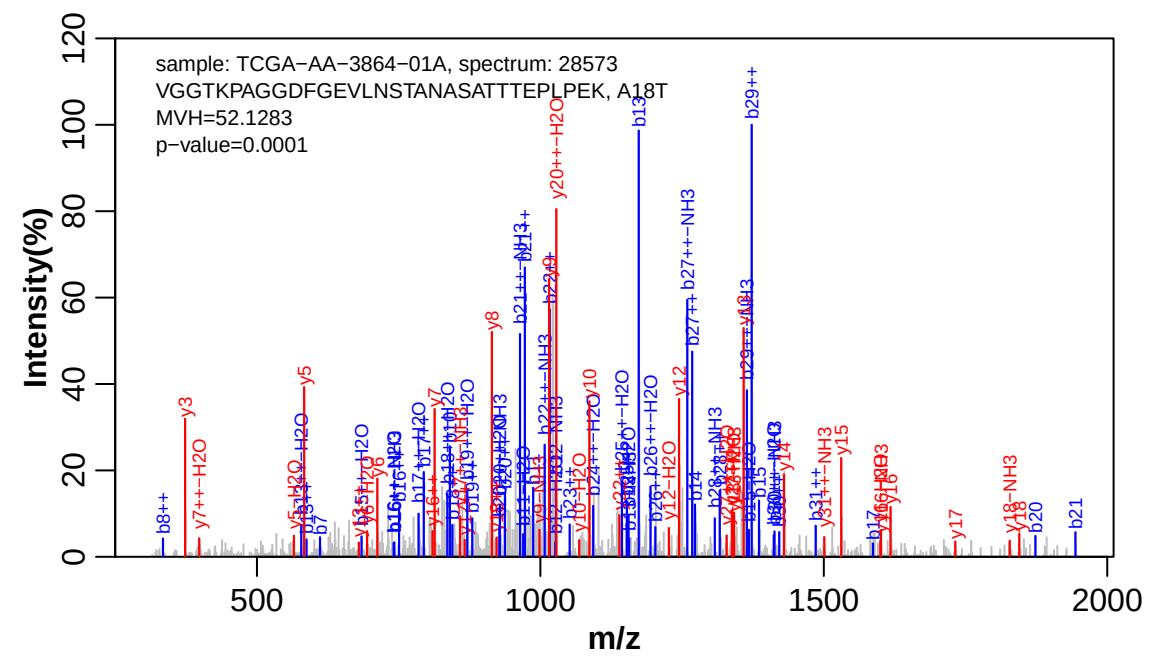

sample: TCGA−AA−3864−01A, spectrum: 120273
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.5257
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

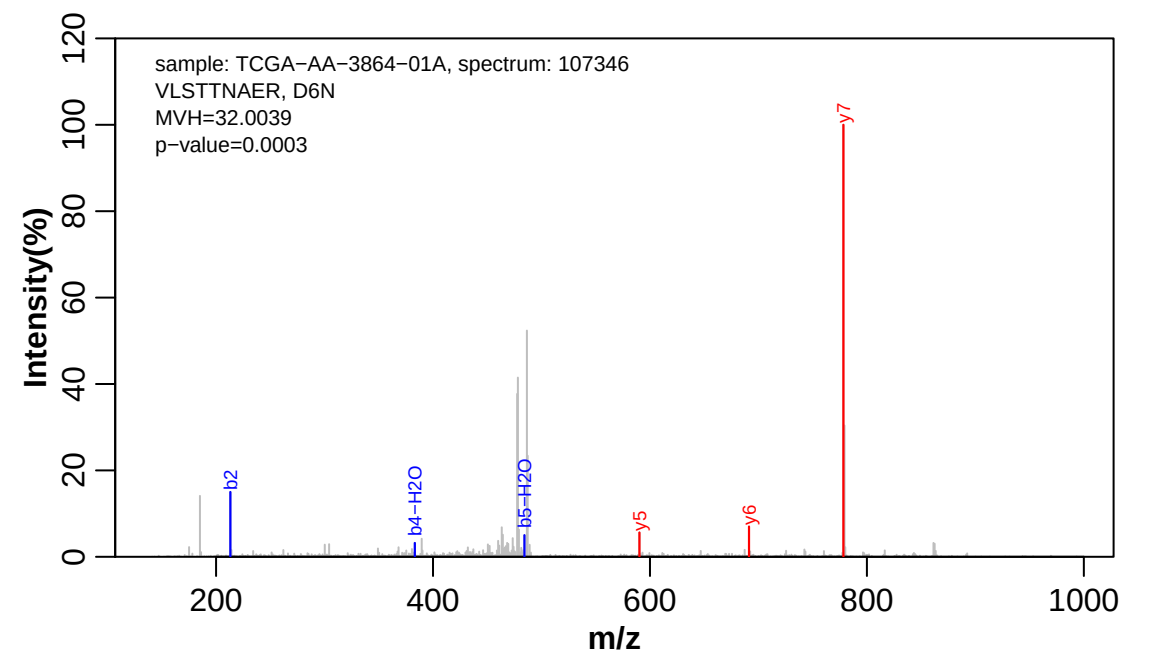

sample: TCGA−AA−3864−01A, spectrum: 109782
SQLCDNATLYAQK, A8T
MVH=68.2527
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2−NH3
y2
b3
y3
b4
y4
b5−NH3
b5
y5
y6
y7
b8−H2O−NH3
y8−NH3
y8
b9−H2O−NH3
b9
y9−NH3
y9
b10−H2O−NH3
b10
y10−H2O
y10
b11−H2O
b11
y11
b12−NH3
b12

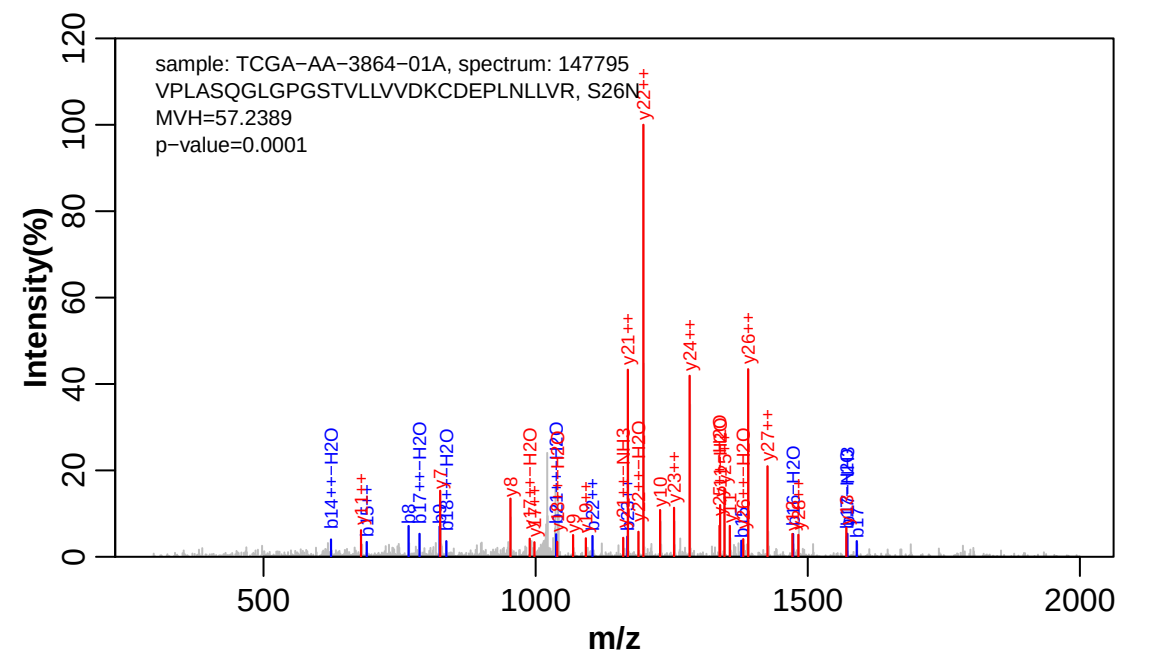

sample: TCGA−AA−3864−01A, spectrum: 58080
SQNKEDYDGLKEEFR, A8D
MVH=57.9442
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y5+++
y2
b6++
y9+++−H2O
y6++−H2O
y6++−NH3
b4−NH3
b4−H2O
b4
b8++
y8++
b9++−H2O
y13+++−H2O
y13+++
y14+++−H2O
y10++
y11++−NH3
b6

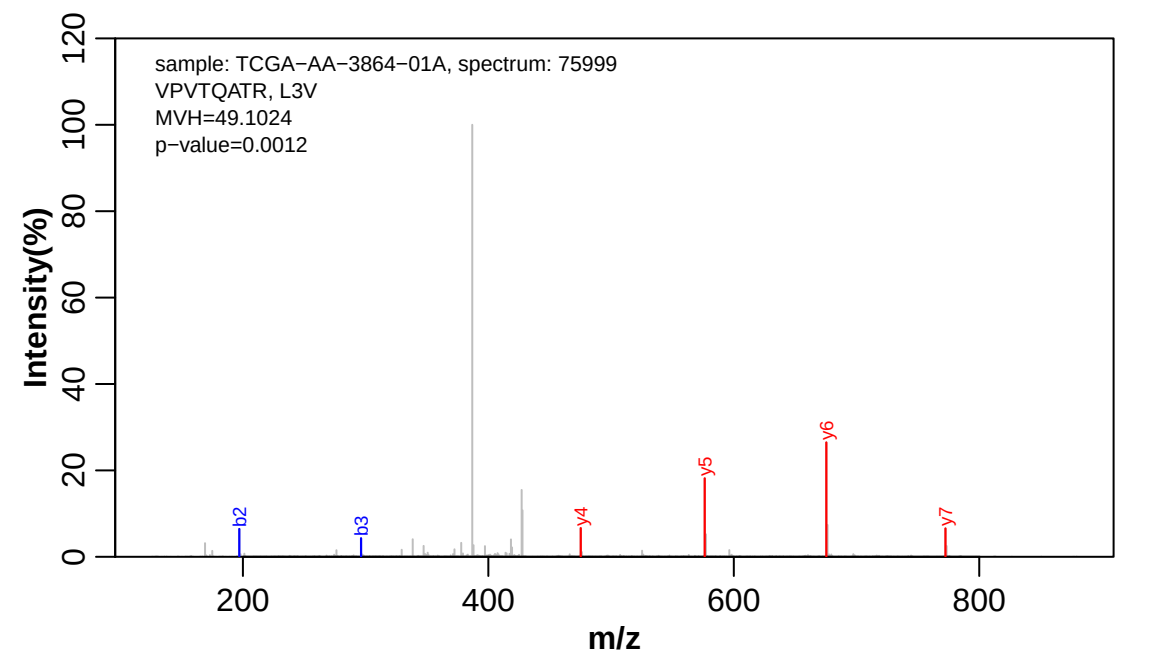

sample: TCGA−AA−3864−01A, spectrum: 7654
TVEHGFPHQPSALGYSPSLHLLALGTR, R20H
MVH=81.8415
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b9++
b13+++−H2O
y11++
y18+++
y19+++−H2O
b6
y18++
b9
y11
b12−H2O

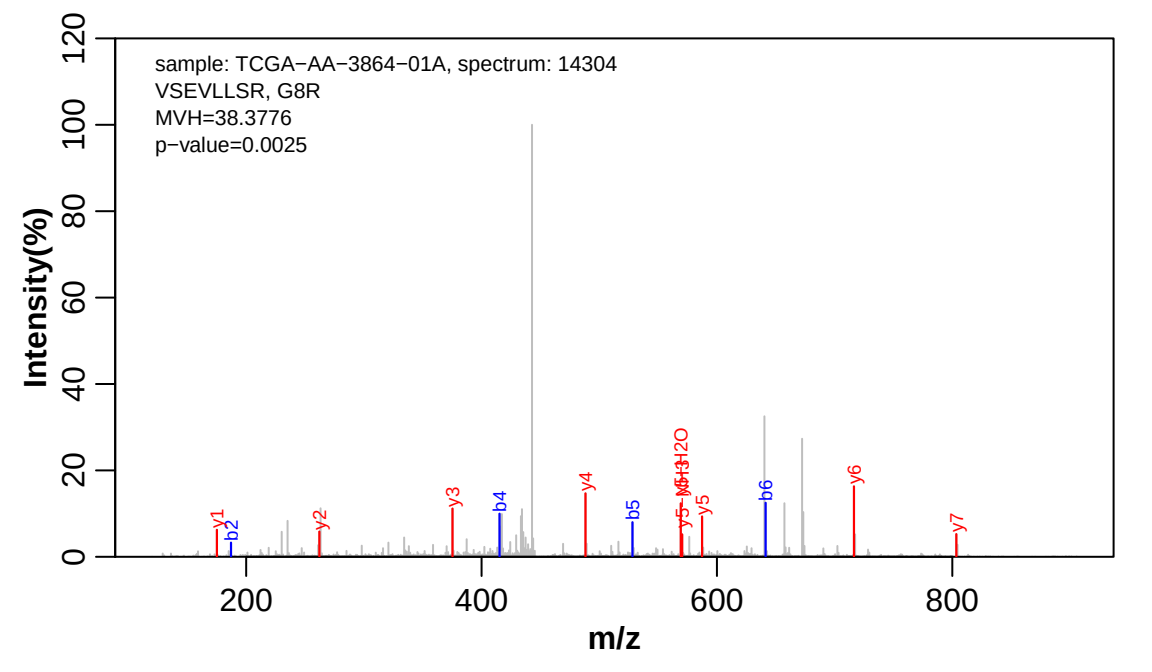

sample: TCGA−AA−3864−01A, spectrum: 17657
VDATEVSDLAQQYGVR, E6V
MVH=95.5346
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
b2
y2
y5++−H2O
y3
y6++−H2O
b4
y7+−NH3
b9+−H2O
b10++
b6
y5
b12++
b13++
y6
y14++
b15++
b9
b10−H2O
b10
b11
b12

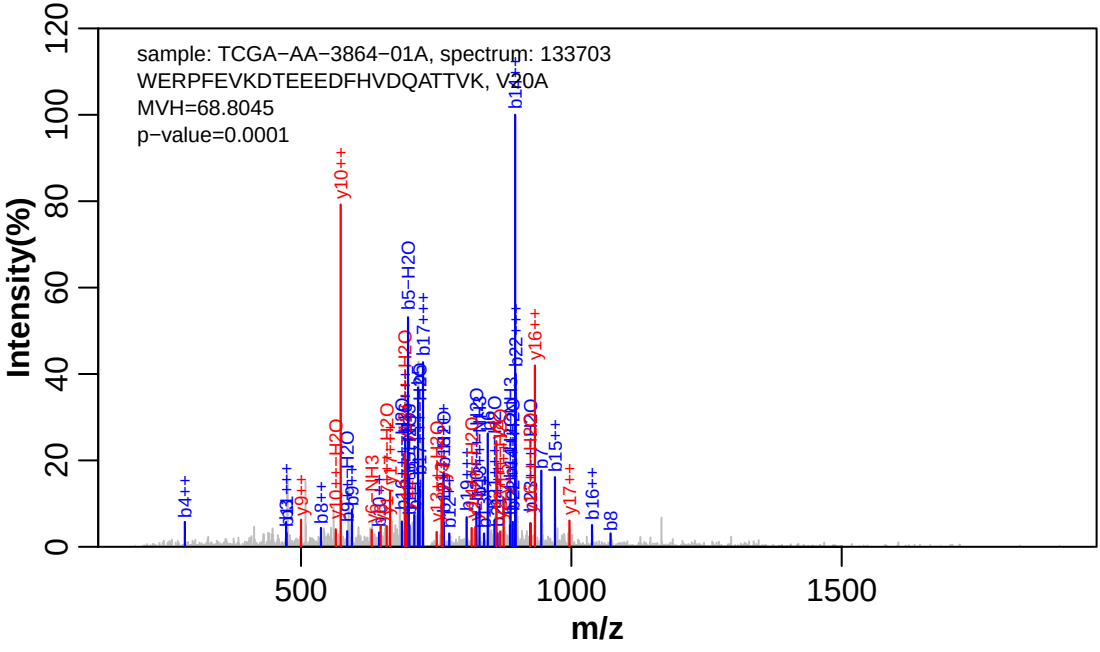

sample: TCGA−AA−3864−01A, spectrum: 28573
VGGTKPAGGDFGEVLNSTANASATTTEPLPEK, A18T
MVH=52.1283
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b8++
y3
y7++−H2O
y5
y5−H2O
b7
y8
b13
y20++−H2O
b29++
b27++−NH3
y12
y15
y17
y18−NH3
b20
b21

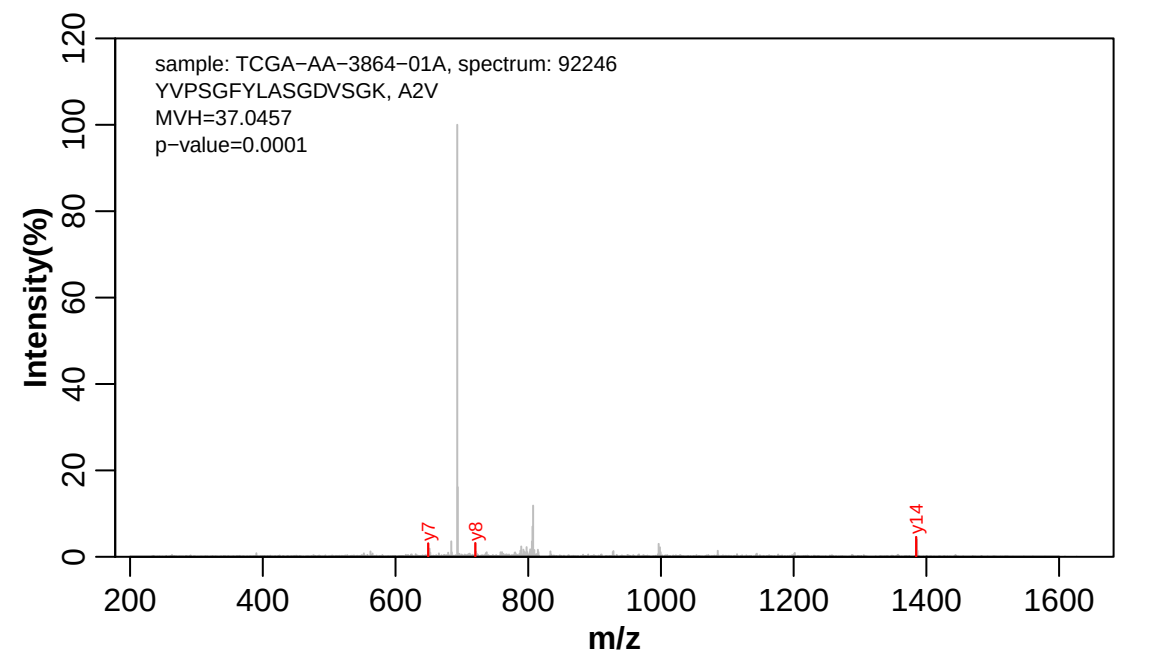

sample: TCGA−AA−3864−01A, spectrum: 107346
VLSTTNAER, D6N
MVH=32.0039
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b4−H2O
b5−H2O
y5
y6
y7

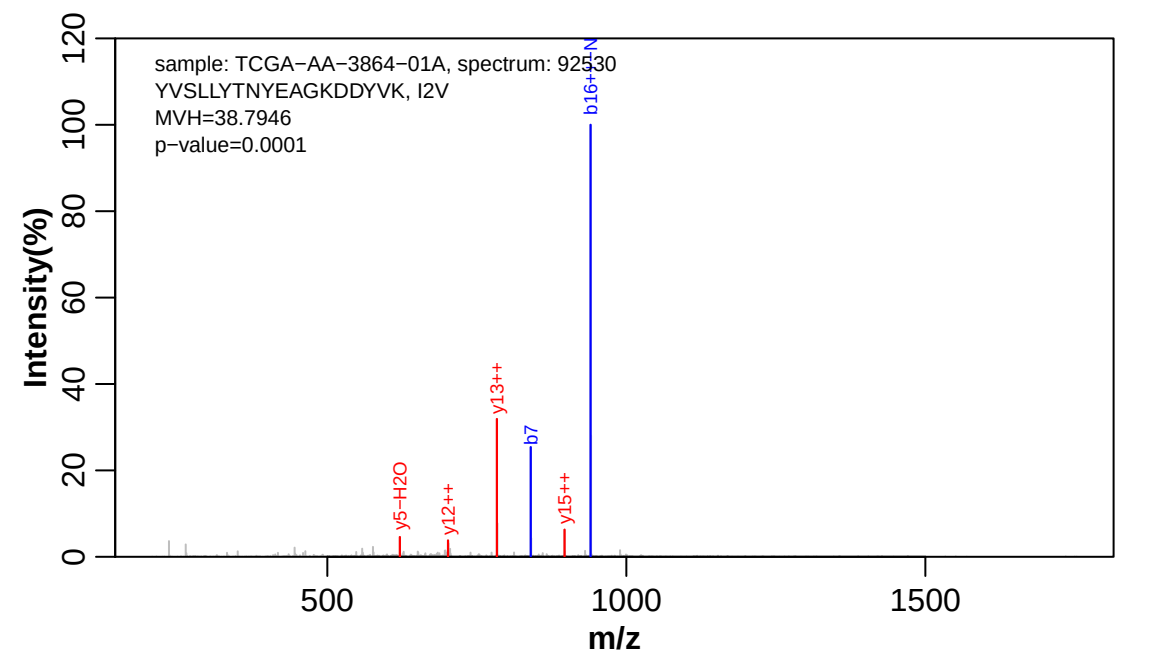

sample: TCGA−AA−3864−01A, spectrum: 147795
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=57.2389
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y26++
y27++
y23++
y19
y8
b14++−H2O
b15++
b8
b17++−H2O
b10++
y7−H2O
y17++−H2O
b21++
b22++
b17−NH3

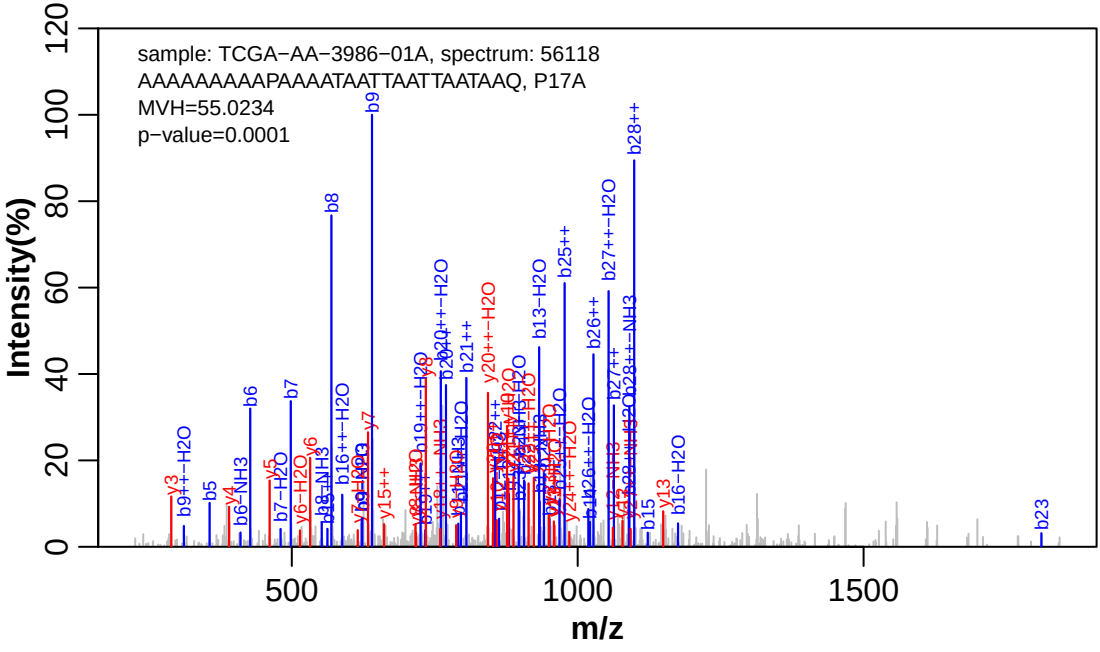

sample: TCGA−AA−3864−01A, spectrum: 75999
VPVTQATR, L3V
MVH=49.1024
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

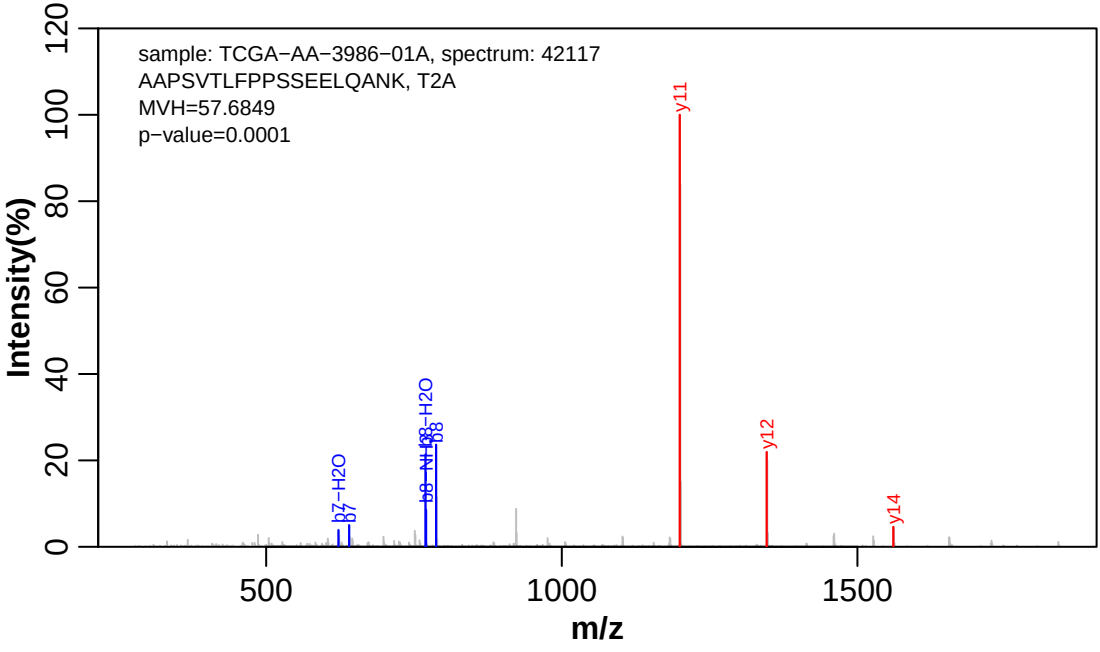

sample: TCGA−AA−3864−01A, spectrum: 14304
VSEVLLSR, G8R
MVH=38.3776
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
y3
b4
y4
b5
y5−NH3
y5−H2O
y5
b6
y6
y7

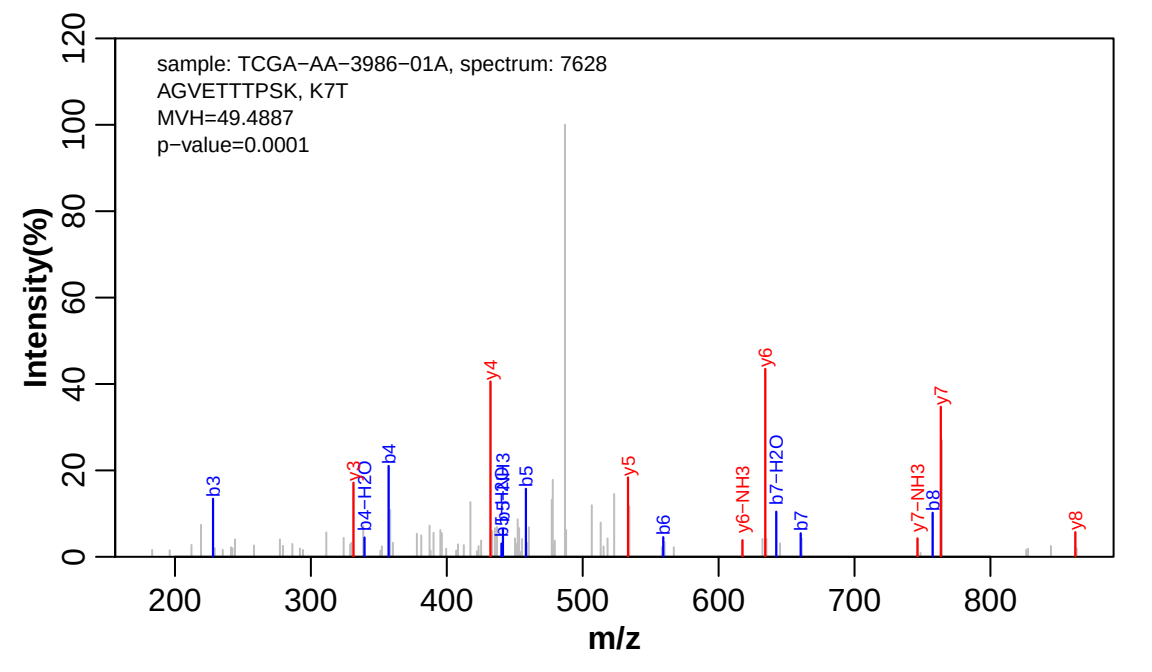

sample: TCGA−AA−3864−01A, spectrum: 133703
WERPFEVKDTEEEDFHVDQATTVK, V20A
MVH=68.8045
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4++
y9++
b8++
y10++
b5−H2O
b17+++
b15++
y16++
y17++
b16++
b8
b18++

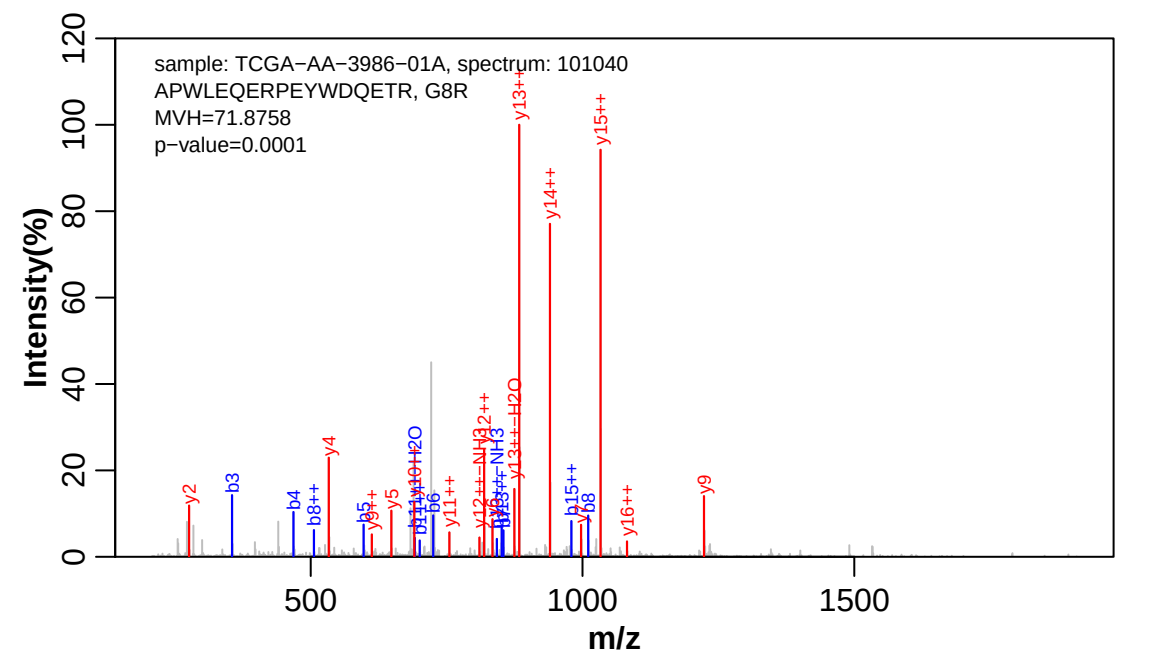

sample: TCGA−AA−3864−01A, spectrum: 92246
YVPSGFYLASGDVSGK, A2V
MVH=37.0457
p−value=0.0001
y7
y8
y14
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

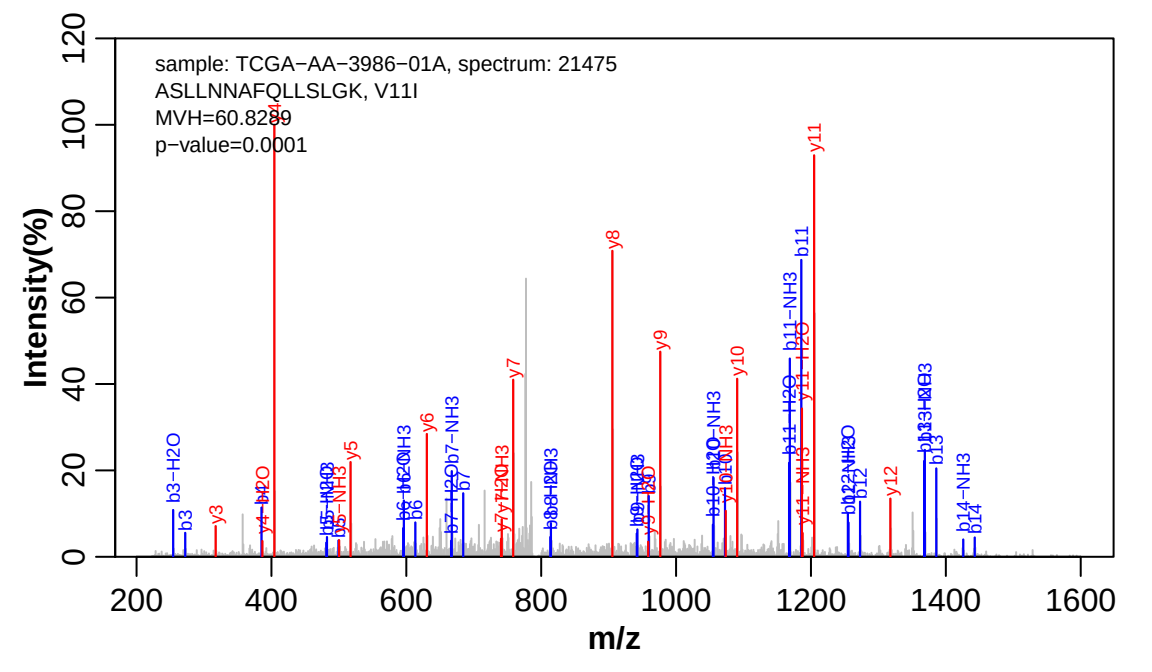

sample: TCGA−AA−3864−01A, spectrum: 92530
YVSLLYTNYEAGKDDYVK, I2V
MVH=38.7946
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

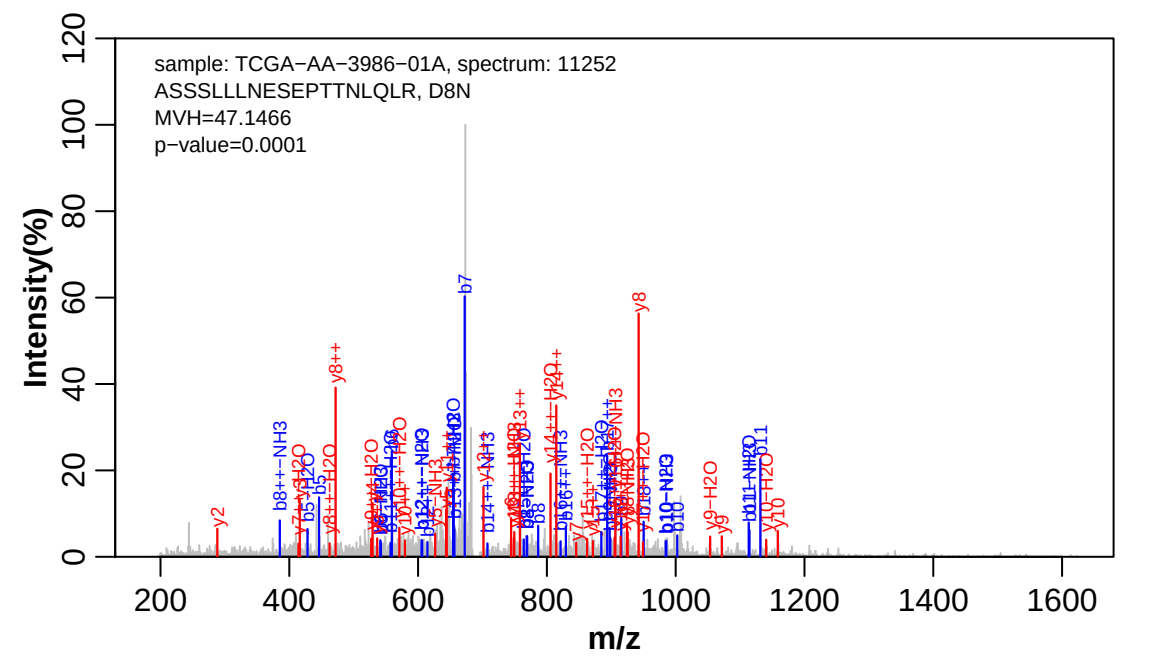

sample: TCGA−AA−3986−01A, spectrum: 56118
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=55.0234
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b9
b8
b6
b7
b5
b4
b3
y3
y5
y6
y7
y15++
b23
b16−H2O
b28++
b27++−H2O
b25++
b13−H2O
b20++−H2O
b21++
y20++−H2O

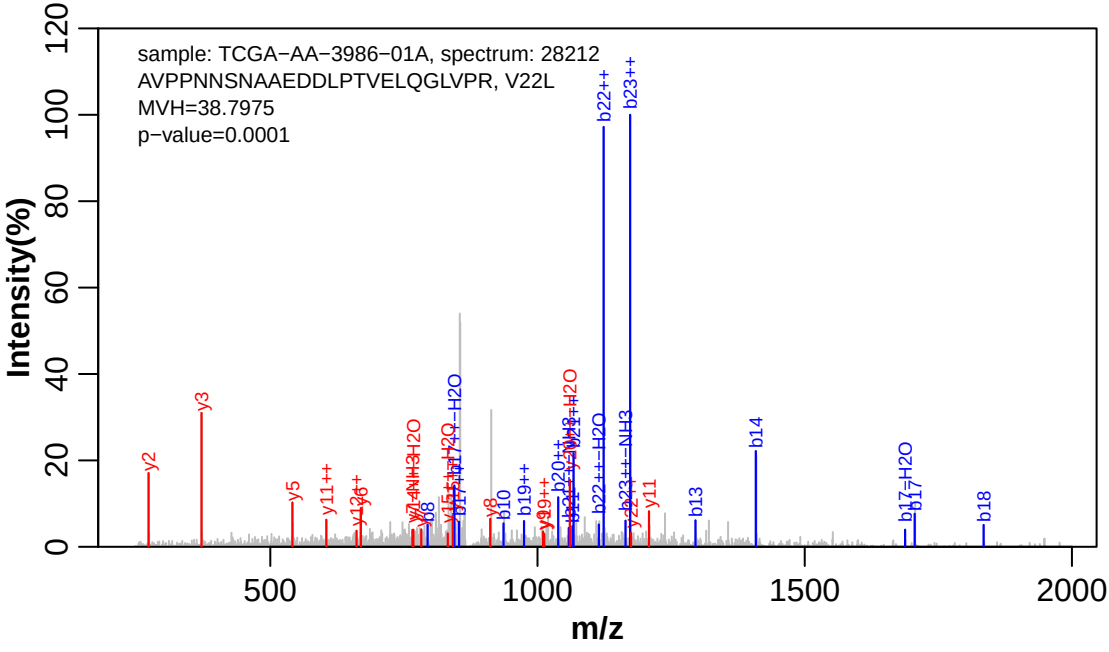

sample: TCGA−AA−3986−01A, spectrum: 42117
AAPSVTLFPPSSEELQANK, T2A
MVH=57.6849
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

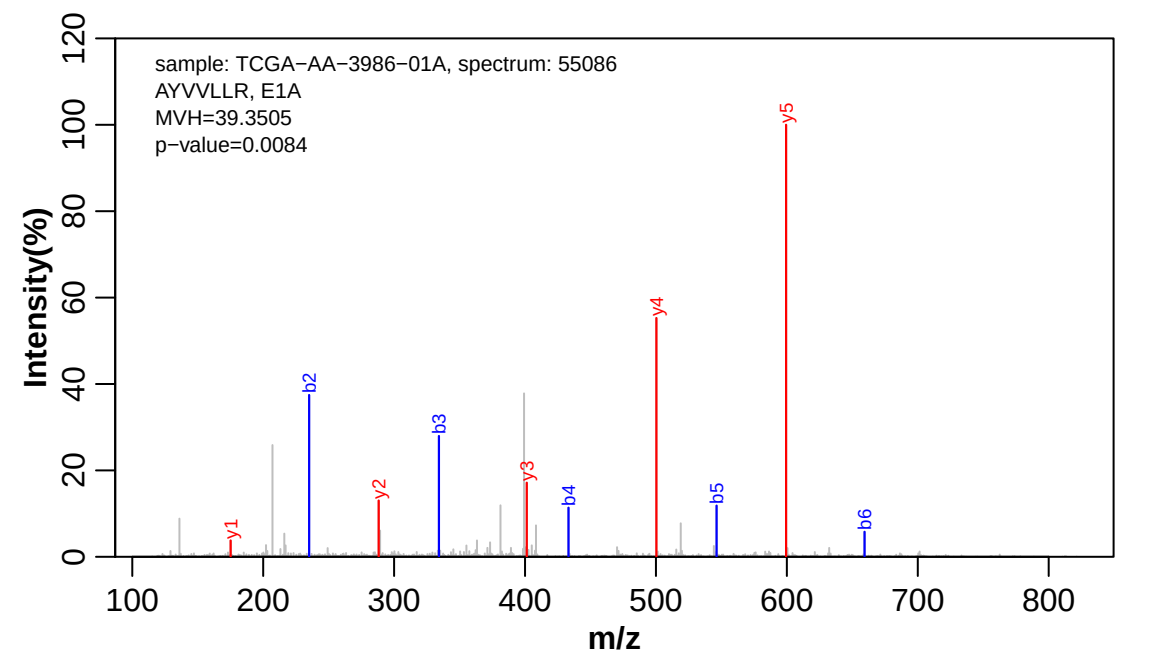

sample: TCGA−AA−3986−01A, spectrum: 7628
AGVETTTPSK, K7T
MVH=49.4887
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
800
m/z
b3
y3
b4−H2O
b4
y4
b5−NH3
b5
y5
b6
y6−NH3
y6
b7−H2O
b7
y7−NH3
b8
y7
y8

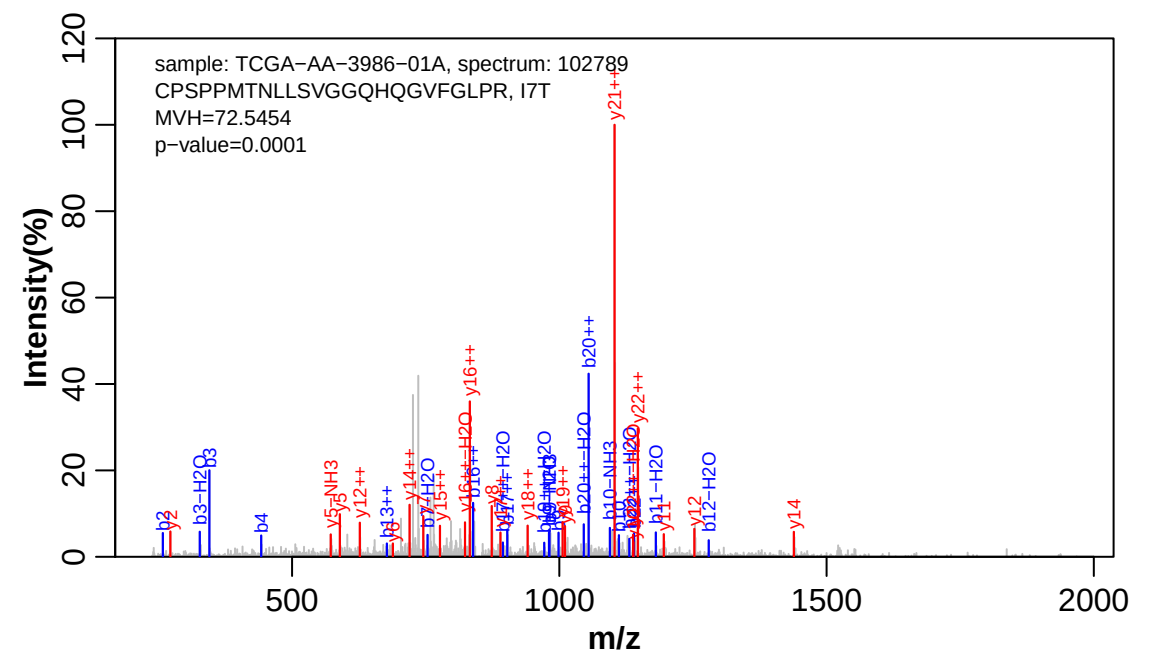

sample: TCGA−AA−3986−01A, spectrum: 101040
APWLEQERPEYWDQETR, G8R
MVH=71.8758
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
b4
y4
b8++
b5
y7++
y5
b11++
y10+H2O
b6
y11++
y12++−NH3
b12++
b13++−NH3
y13++−H2O
y13++
y14++
b15++
y8
y15++
y16++
y9

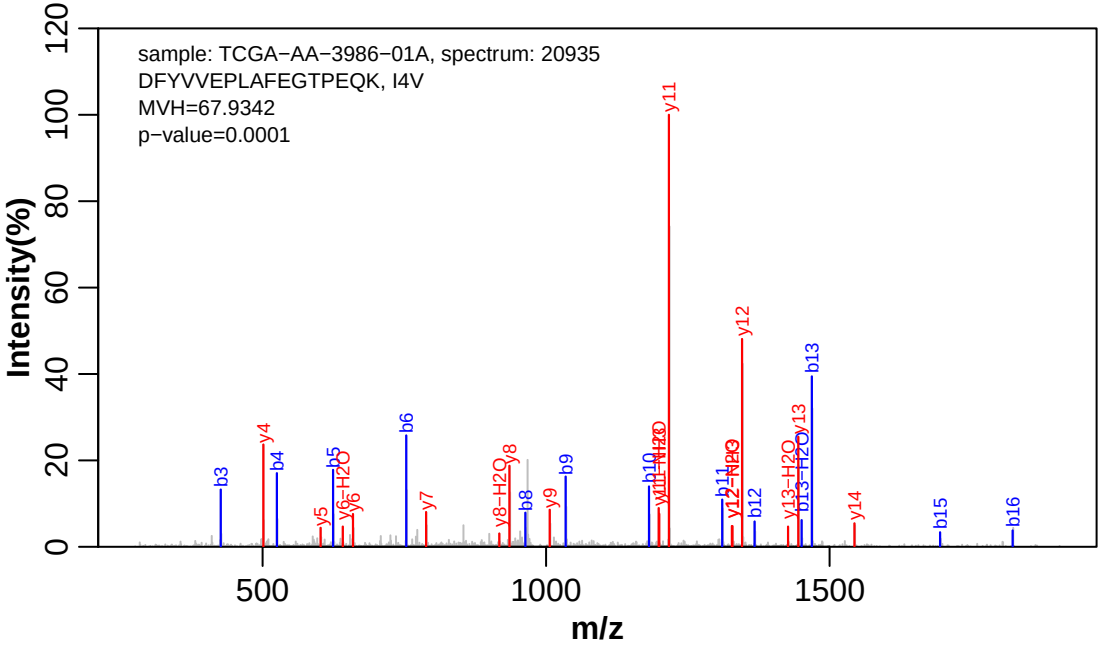

sample: TCGA−AA−3986−01A, spectrum: 21475
ASLLNNAFQLLSLGK, V11I
MVH=60.8289
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y3
y4
b4
y4−H2O
y5
y5−NH3
b6
b6−NH3
y6
b7−NH3
b7
y7
y7−H2O
y7−NH3
y8
y9
y9−H2O
y9−NH3
y10
y10−H2O
y10−NH3
b11
b11−NH3
y11
y11−H2O
y11−NH3
b12
y12
b13
b13−NH3
b14−NH3
b14

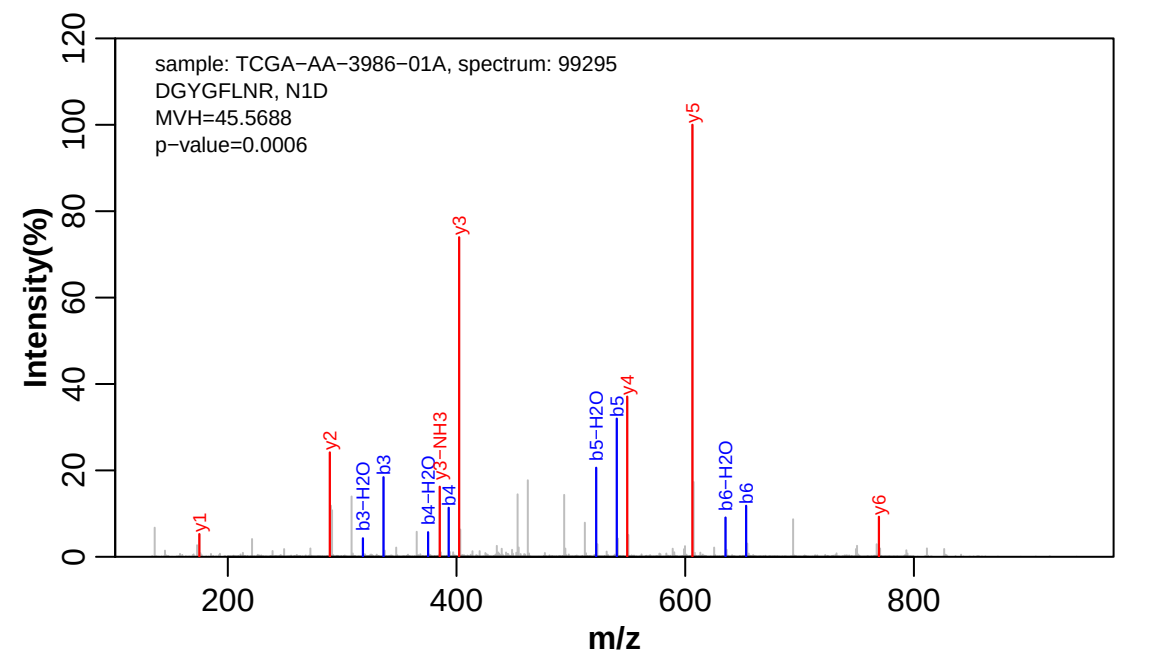

sample: TCGA−AA−3986−01A, spectrum: 11252
ASSSLLLNESEPTTNLQLR, D8N
MVH=47.1466
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7
y8
y8++
b8++−NH3
y2
b5
y5
y9−H2O
y10−H2O
b11−NH3

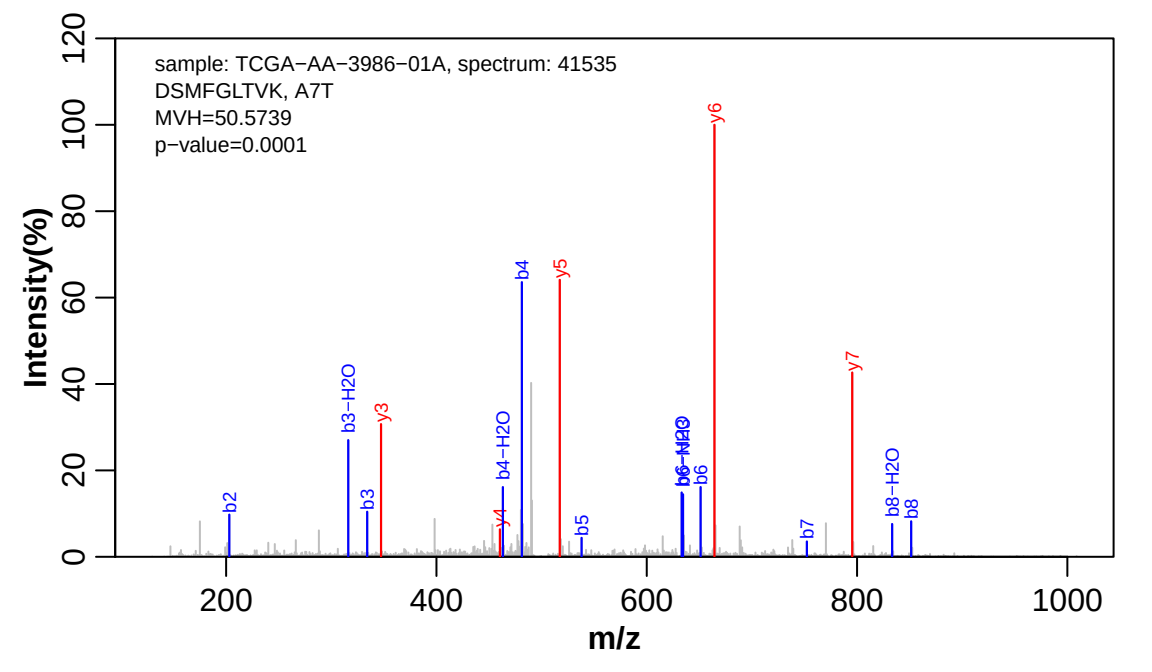

sample: TCGA−AA−3986−01A, spectrum: 28212
AVPPNNSNAAEDDLPTVELQGLVPR, V22L
MVH=38.7975
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y5
y11++
y12++
b10
b19++
b13
b14
b17−H2O
b18
b22++
b23++

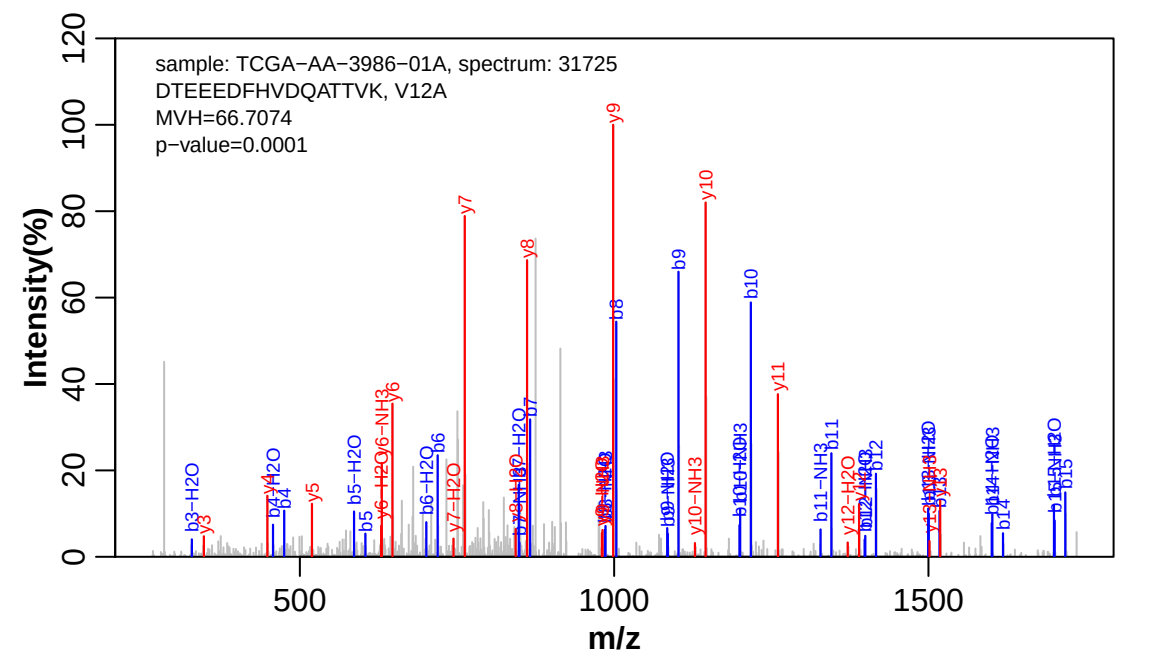

sample: TCGA−AA−3986−01A, spectrum: 55086
AYVVLLR, E1A
MVH=39.3505
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

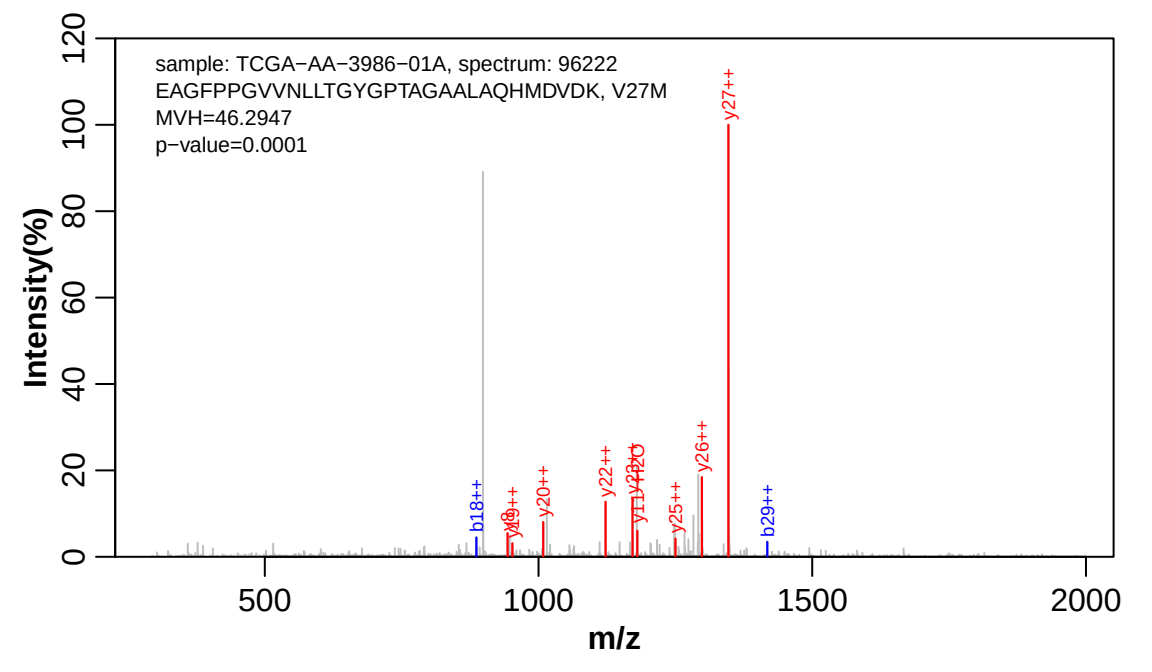

sample: TCGA−AA−3986−01A, spectrum: 102789
CPSPPMTNLLSVGGQHQGVFGLPR, I7T
MVH=72.5454
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y21++
b20++
y16++
y22++
b2
y2
b3−H2O
b3
b4
y5−NH3
y5
y12++
b13++
y8
y14++
b7−H2O
y15++
b16++−H2O
b16++
b7++−H2O
y18++
b20++−H2O
b20++−NH3
y11−H2O
y12
b12−H2O
y14

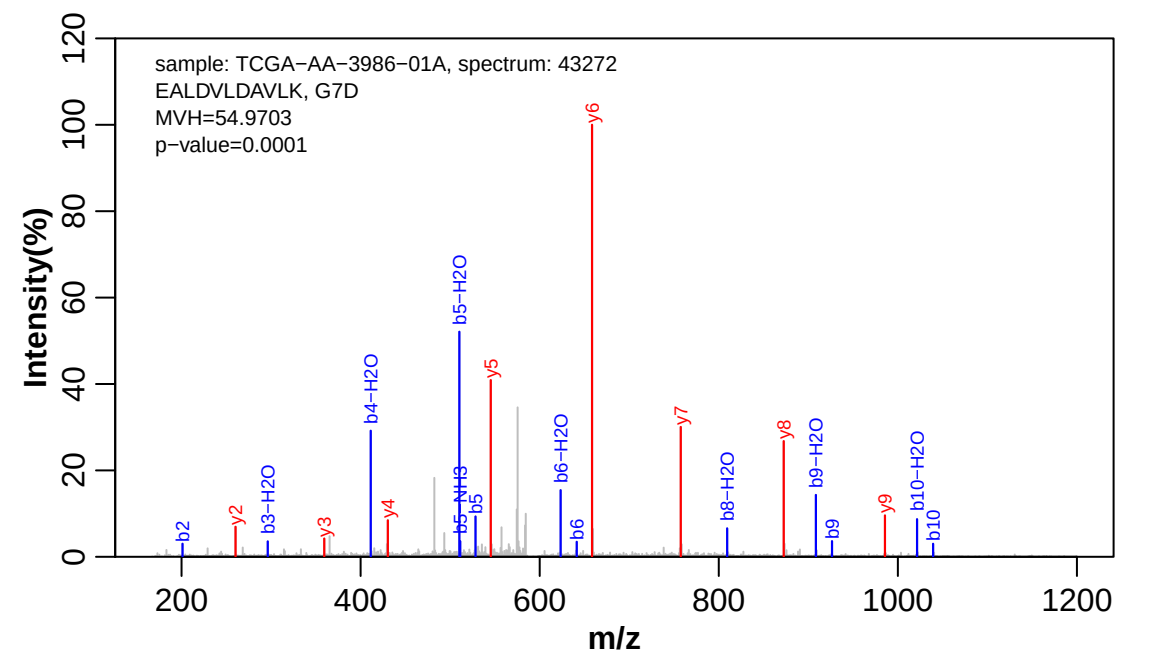

sample: TCGA−AA−3986−01A, spectrum: 20935
DFYVVEPLAFEGTPEQK, I4V
MVH=67.9342
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
b13
y4
b6
b3
b4
b5
y5
y6
y7
y8
b8
y9
b9
b10
b11
b12
y13
y14
b15
b16

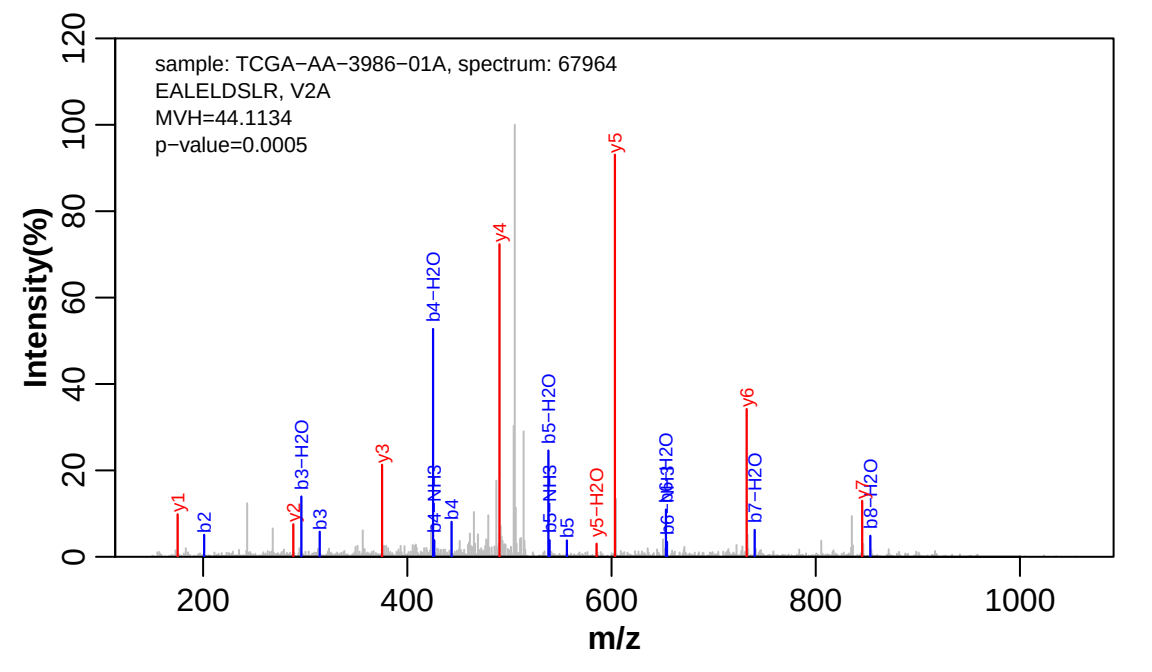

sample: TCGA−AA−3986−01A, spectrum: 99295
DGYGFLNR, N1D
MVH=45.5688
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

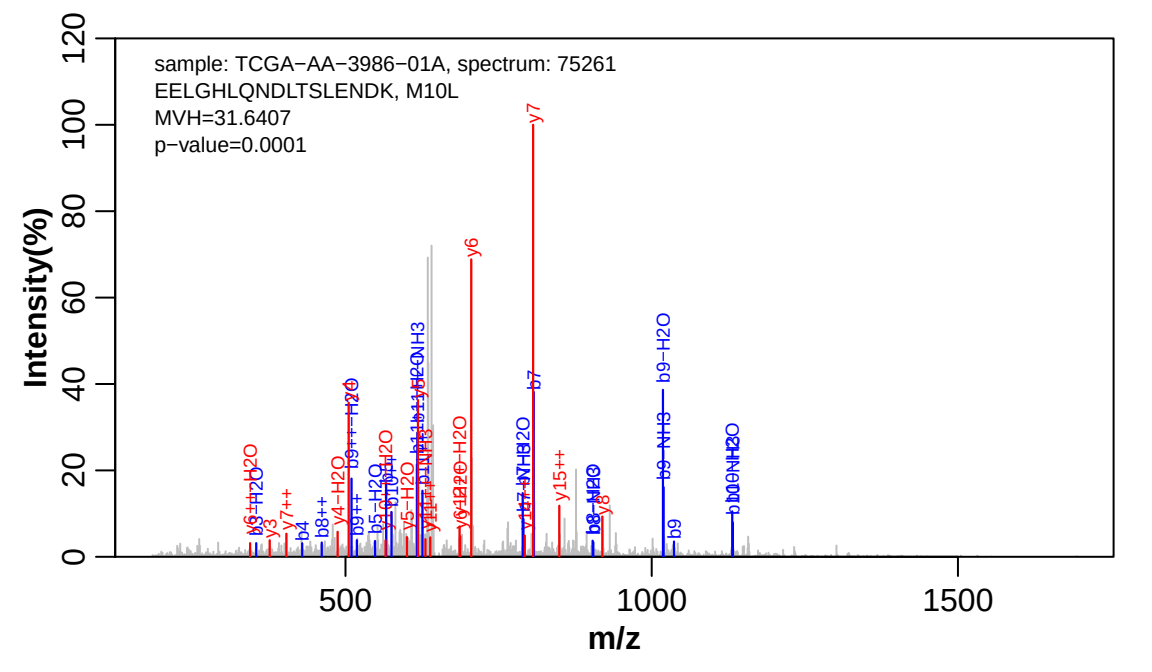

sample: TCGA−AA−3986−01A, spectrum: 41535
DSMFGLTVK, A7T
MVH=50.5739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y3
b4−H2O
y4
b4
y5
b5
b6
y6
b7
y7
b8−H2O
b8

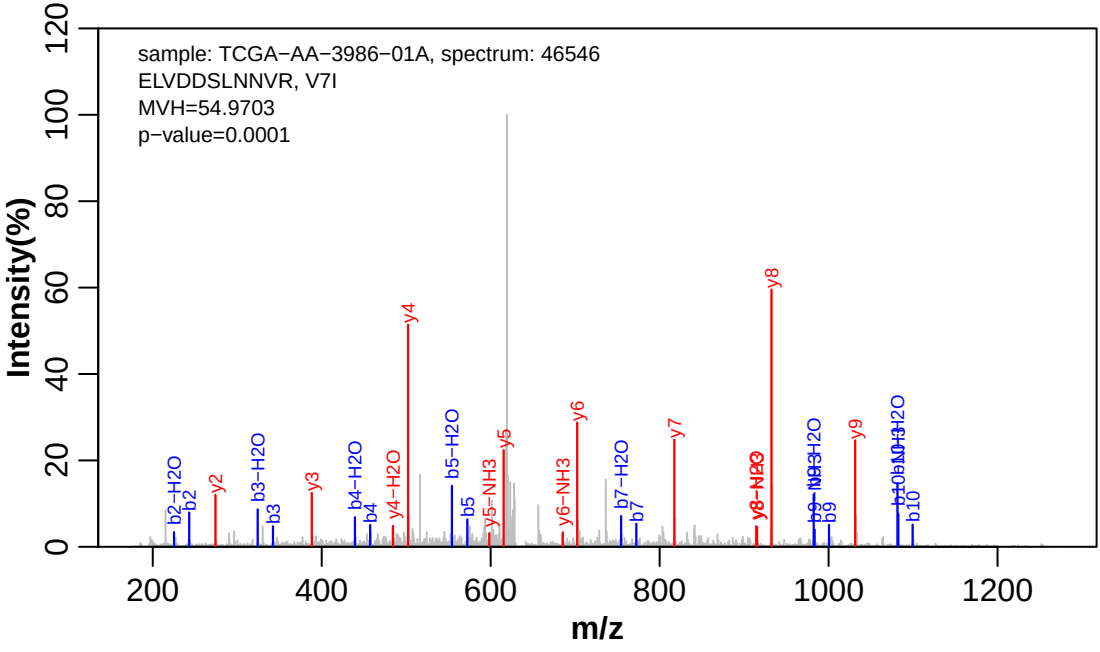

sample: TCGA−AA−3986−01A, spectrum: 31725
DTEEEDFHVDQATTVK, V12A
MVH=66.7074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y10
y7
y8
b9
b8
b10
y11
y6
b7
b6
b11
b12
b5
y5
b4
b3−H2O
y3
y10−NH3
y7−H2O
y6−NH3
y6−H2O
b6−H2O
b5−H2O
y4−H2O
y12−H2O
b11−NH3
b15
b14
b13

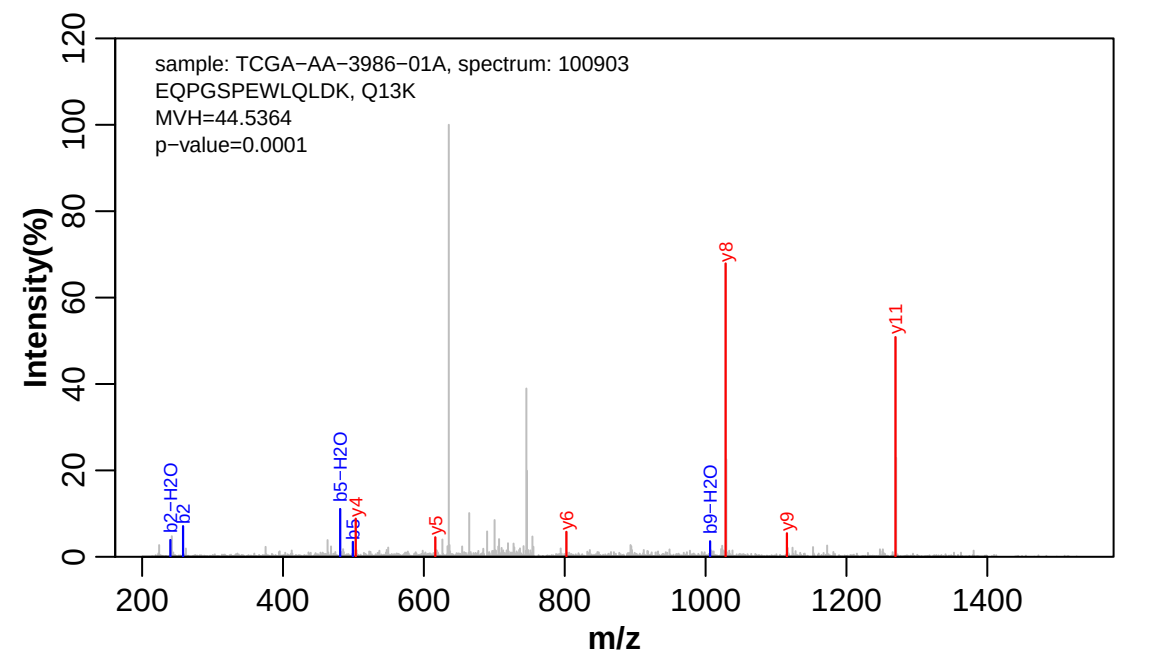

sample: TCGA−AA−3986−01A, spectrum: 96222
EAGFPPGVVNLLTGYGPTAGAALAQHMDVDK, V27M
MVH=46.2947
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b18++
y20++
y22++
y25++
y26++
y27++
b29++

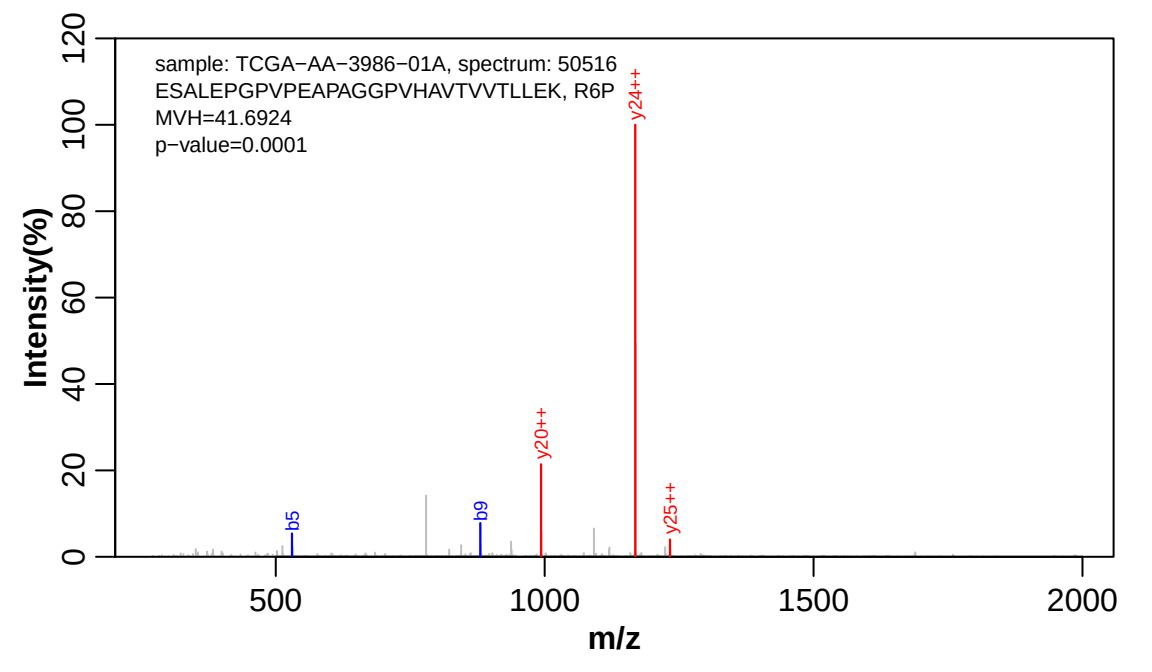

sample: TCGA−AA−3986−01A, spectrum: 43272
EALDVLDAVLK, G7D
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
y6
b6−H2O
b6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

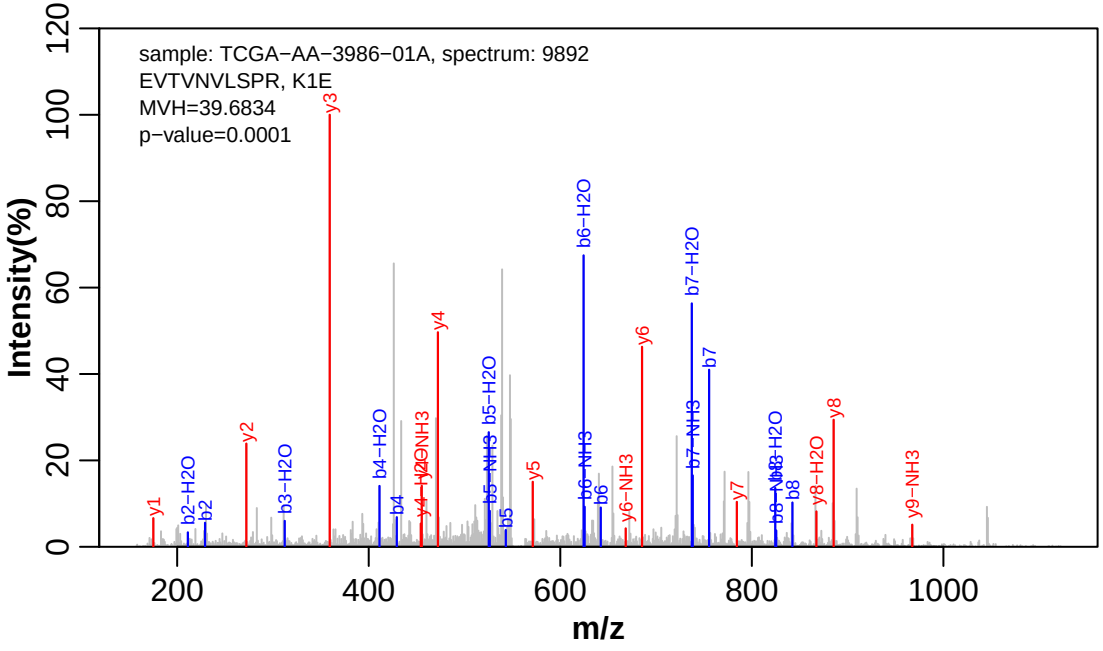

sample: TCGA−AA−3986−01A, spectrum: 67964
EALELDSLR, V2A
MVH=44.1134
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3
b4−NH3
b4
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
y5−H2O
b6−NH3
b6−H2O
y6
b7−H2O
y7
b8−H2O

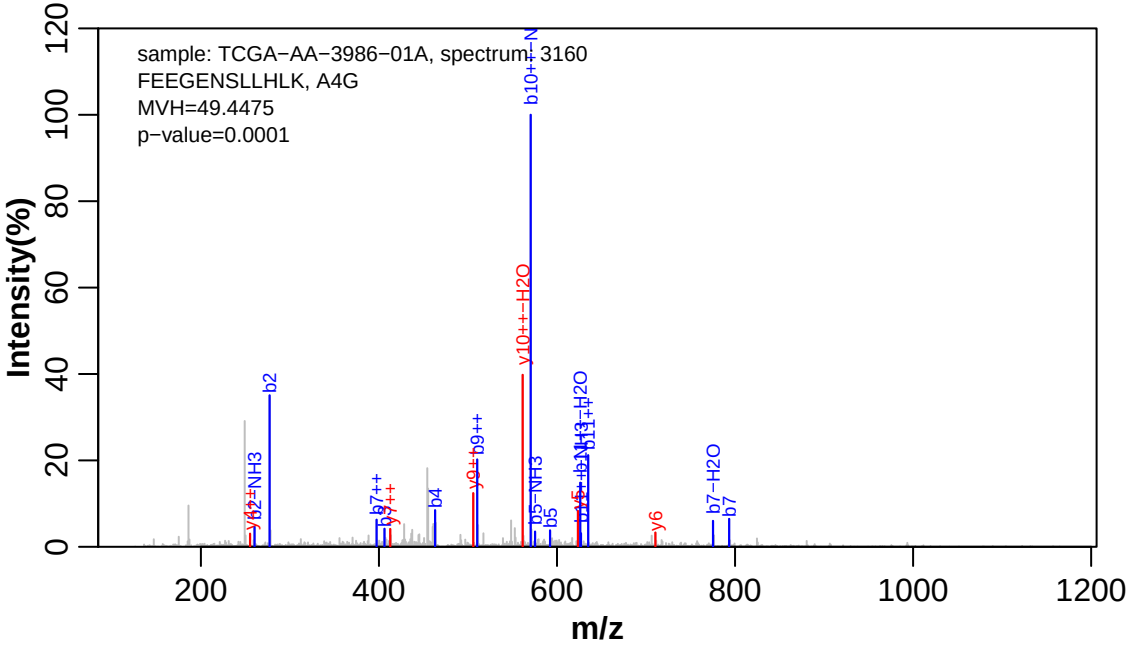

sample: TCGA−AA−3986−01A, spectrum: 75261
EELGHLQNDLTSLENDK, M10L
MVH=31.6407
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y6
b7
y15++
b9−H2O
b9−NH3
b9
y8
y7++
y4−H2O
b8++
b4
y3
b5−H2O
y5−H2O

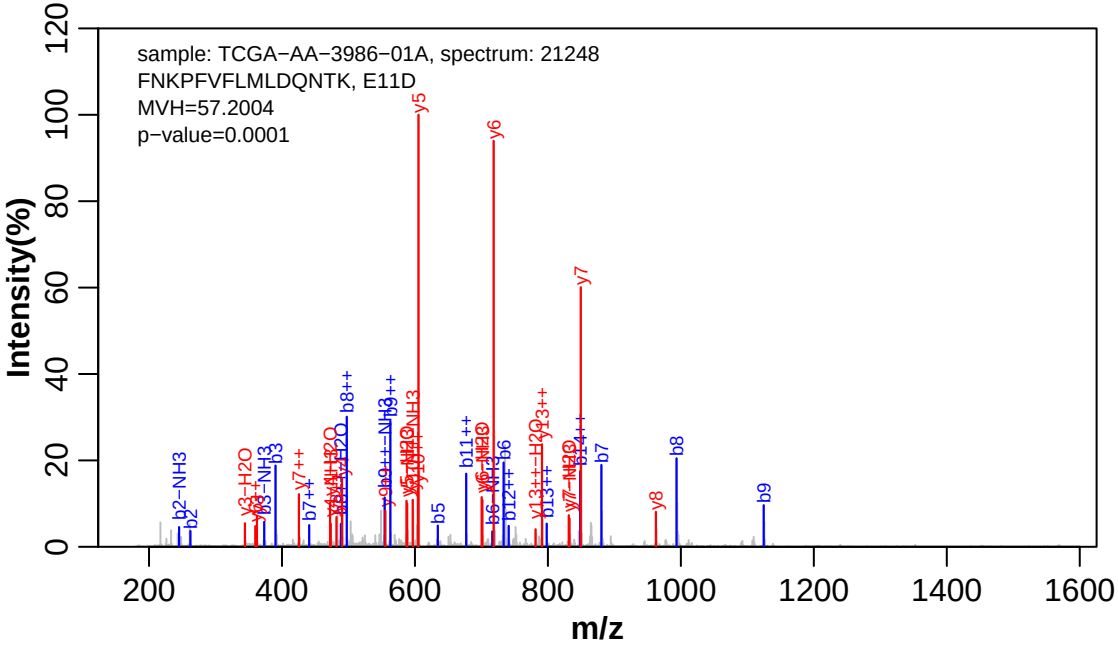

sample: TCGA−AA−3986−01A, spectrum: 46546
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
b5−H2O
b5
y5−NH3
y5
y6−NH3
y6
b7−H2O
b7
y7
y8
b9
y9
b10
b11
b10−H2O
b11−H2O

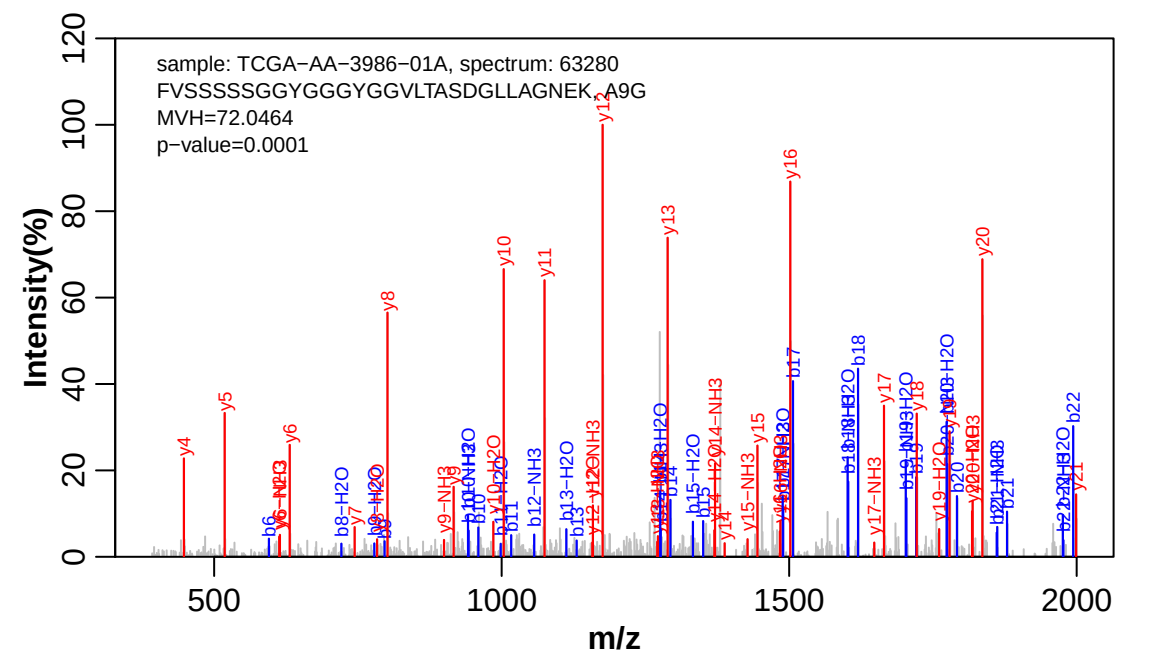

sample: TCGA−AA−3986−01A, spectrum: 100903
EQPGSPEWLQLDK, Q13K
MVH=44.5364
p−value=0.0001
Intensity(%)
m/z
b2−H2O
b2
b5−H2O
y4
b5
y5
y6
b9−H2O
y8
y9
y11

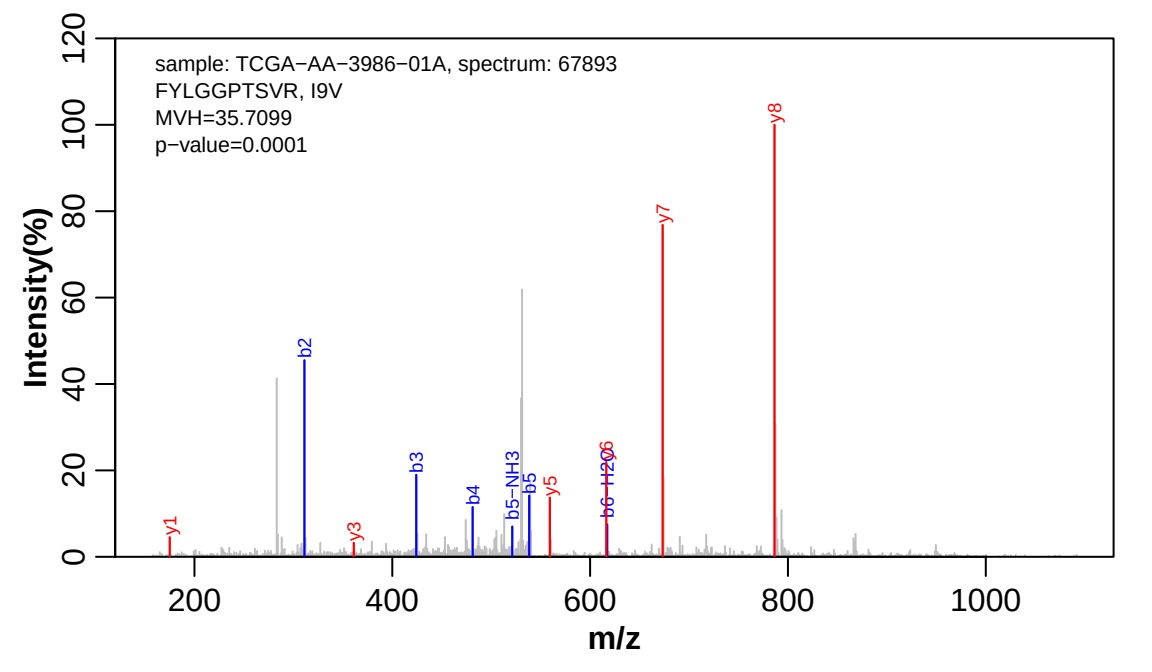

sample: TCGA−AA−3986−01A, spectrum: 50516
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=41.6924
p−value=0.0001
y24++
y20++
y25++
b9
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

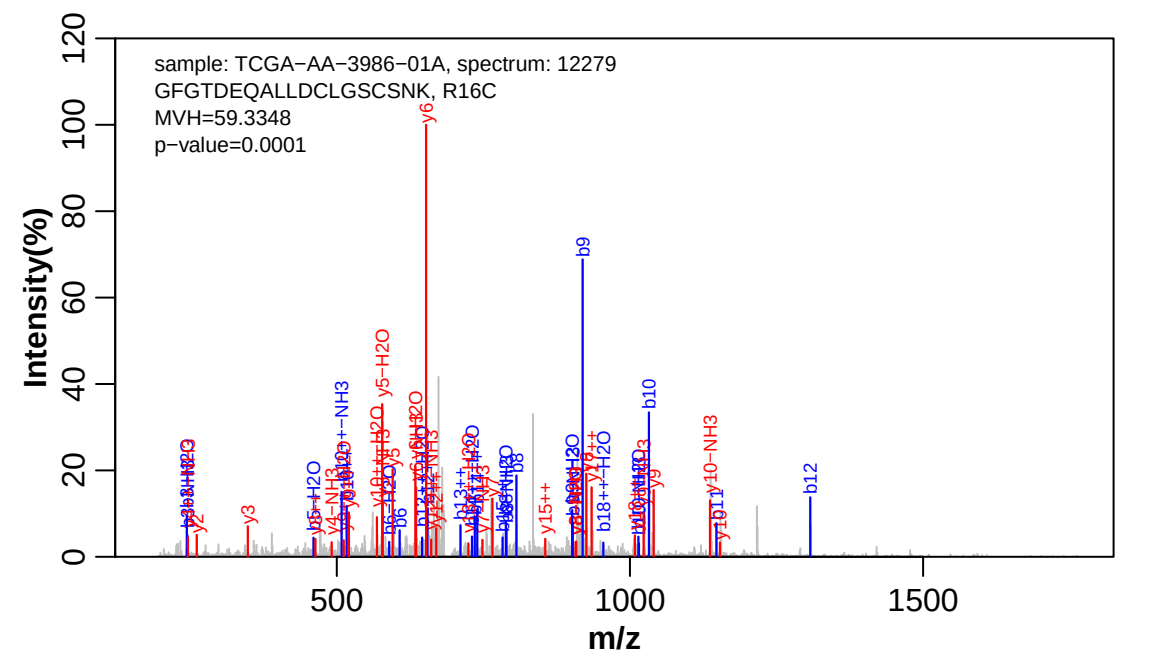

sample: TCGA−AA−3986−01A, spectrum: 9892
EVTVNVLSPR, K1E
MVH=39.6834
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2−H2O
b2
y2
b3−H2O
y3
b4−H2O
b4
y4−H2O
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6−NH3
b6
y6−NH3
y6
b7−H2O
b7−NH3
b7
y7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y9−NH3

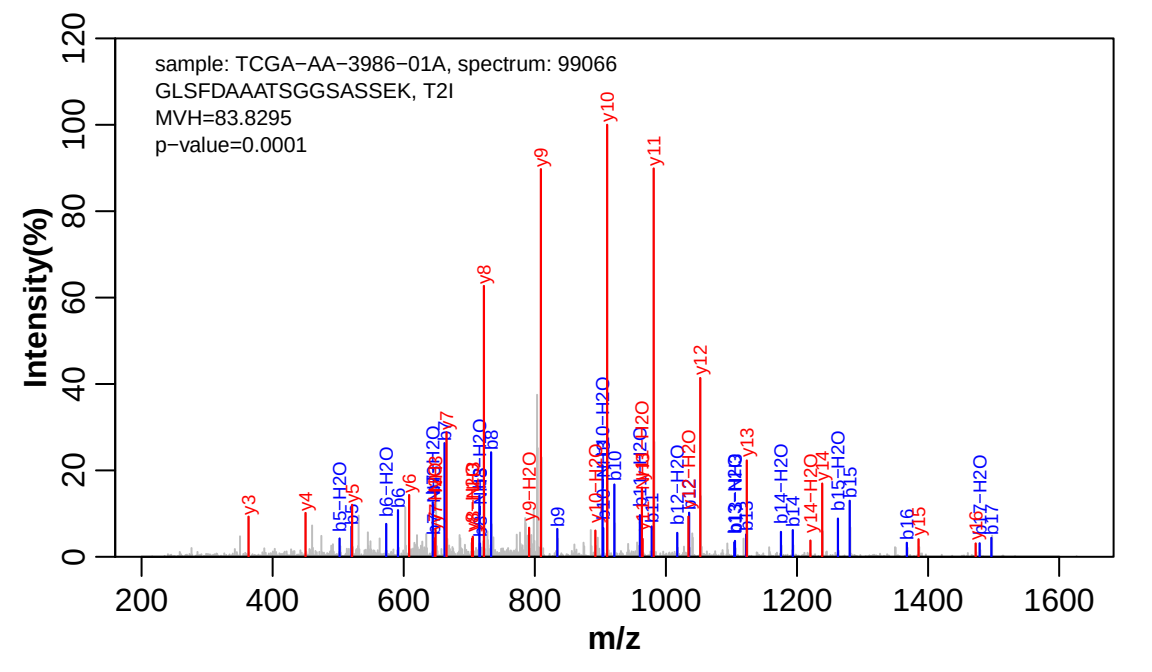

sample: TCGA−AA−3986−01A, spectrum: 3160
FEEGENSLLHLK, A4G
MVH=49.4475
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b10++−NH3
y10++−H2O
b2
y9++−NH3
b9++
b7++
y7++
b4
b5−NH3
b5
b11++−H2O
y6
b7−H2O
b7

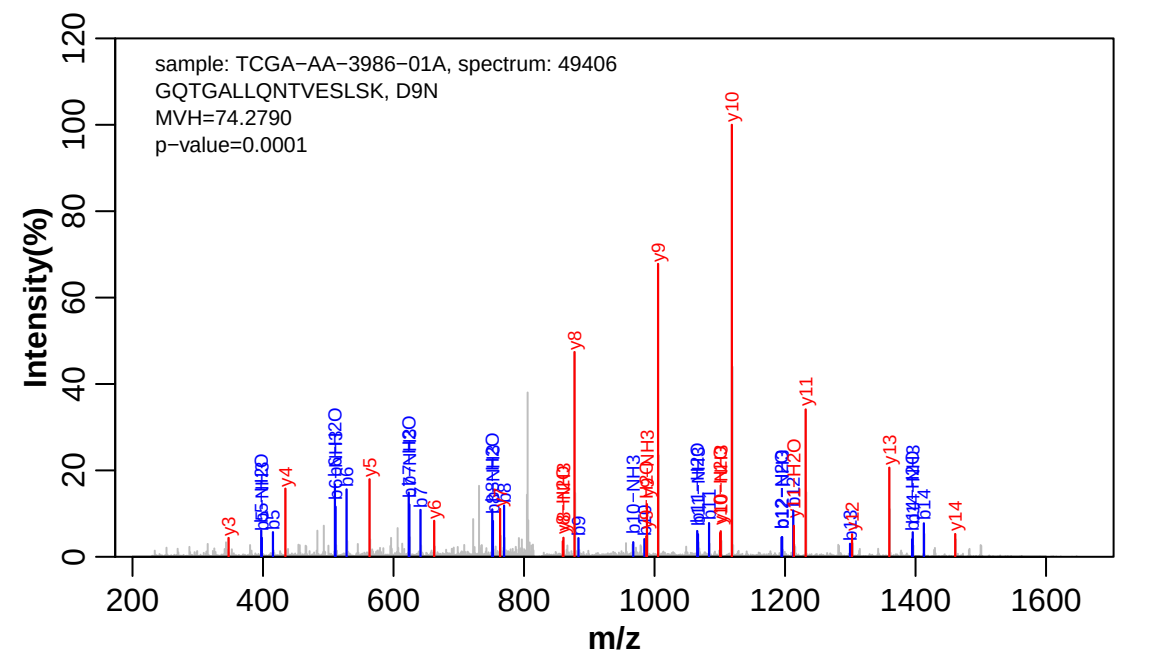

sample: TCGA−AA−3986−01A, spectrum: 21248
FNKPFVFLMLDQNTK, E11D
MVH=57.2004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b8
b9
y8
b5
b7
b2−NH3
b2
b3
y7++
b8++
b11++
b12++
b6
b7++
b9++
y13++
y12++
y9++
y10++
y11++
b13++
b14++
y3−H2O
y4−H2O
y5−H2O
y6−H2O
y7−H2O
y8−H2O
y9−H2O
y10−H2O
y11−H2O
y12−H2O
y13−H2O
b3−NH3
b6−NH3
b7−NH3
b8−NH3
b9−NH3
b10−NH3
b11−NH3
b12−NH3
b13−NH3
b14−NH3

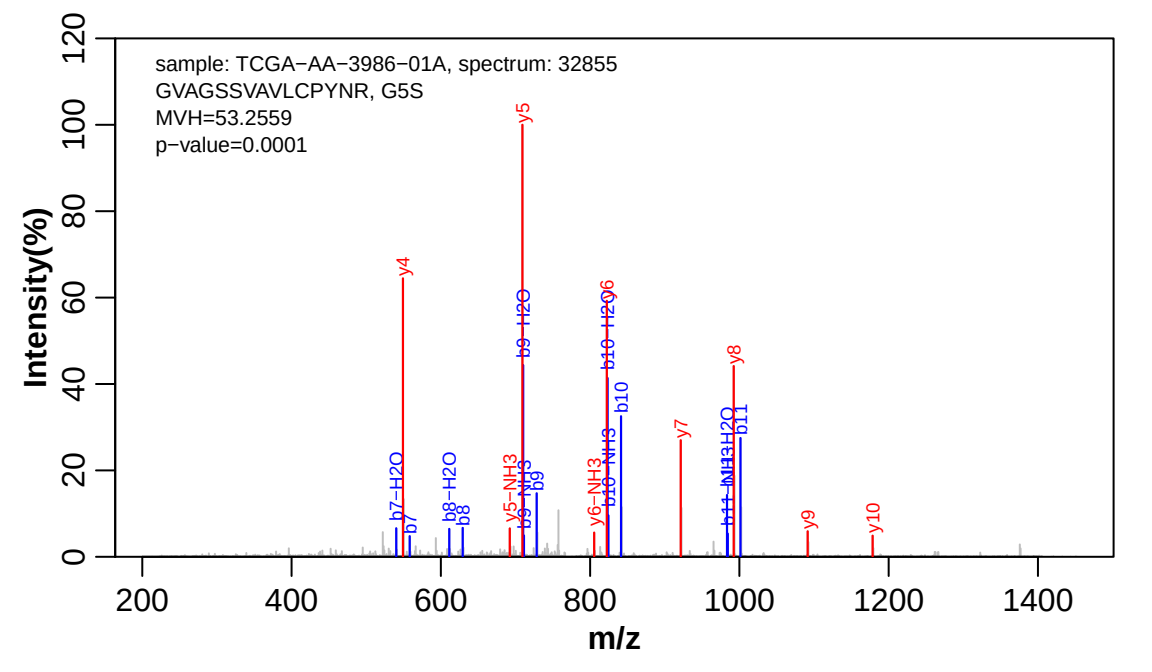

sample: TCGA−AA−3986−01A, spectrum: 63280
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=72.0464
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y7
y8
y9−NH3
y10
y11
y12
y13
y14
y15
y16
y17
y18
y19
y20
y21
b6
b8−H2O
b10
b11
b12−NH3
b13−H2O
b14
b15−H2O
b17
b18
b20
b21
b22

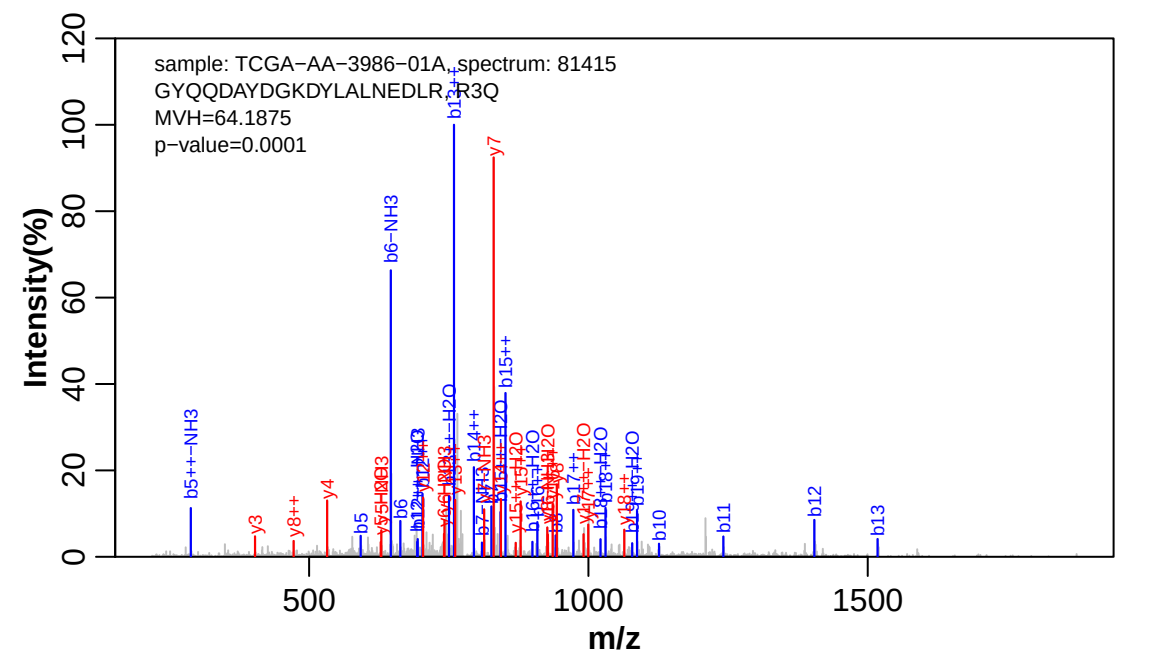

sample: TCGA−AA−3986−01A, spectrum: 67893
FYLGGPTSVR, I9V
MVH=35.7099
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y3
b3
b4
b5−NH3
b5
y5
b6−H2O
y6
y7
y8

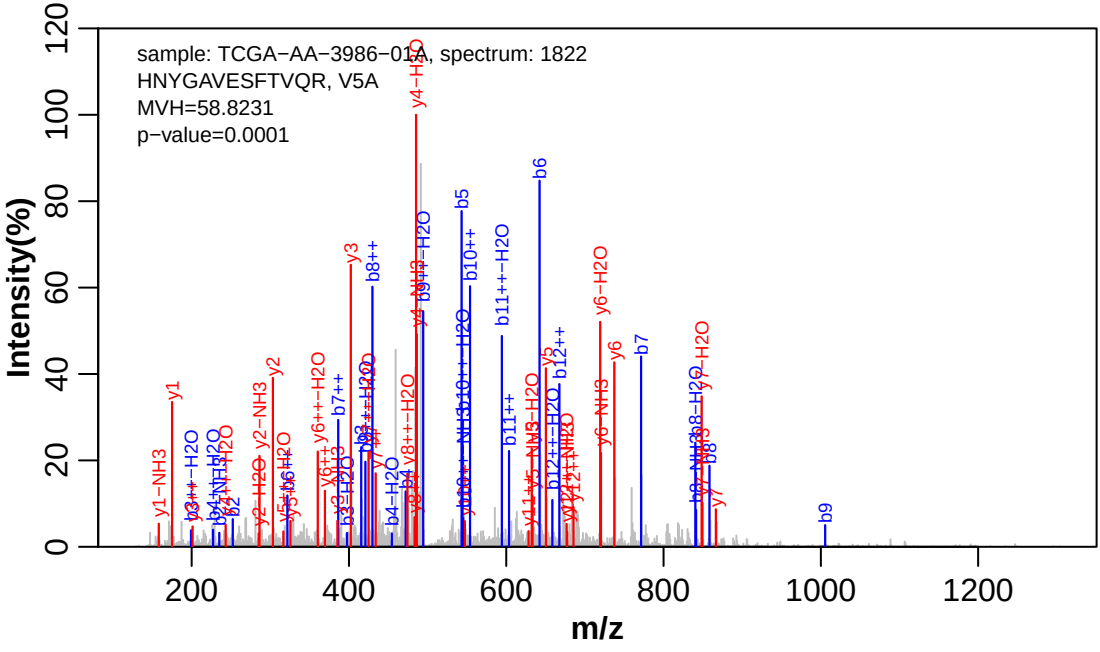

sample: TCGA−AA−3986−01A, spectrum: 12279
GFGTDEQALLDCLGSCSNK, R16C
MVH=59.3348
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6++
b9
b10
b12
y3
y2
y5−H2O
y5−NH3
y10−NH3
b18++−H2O
y15++

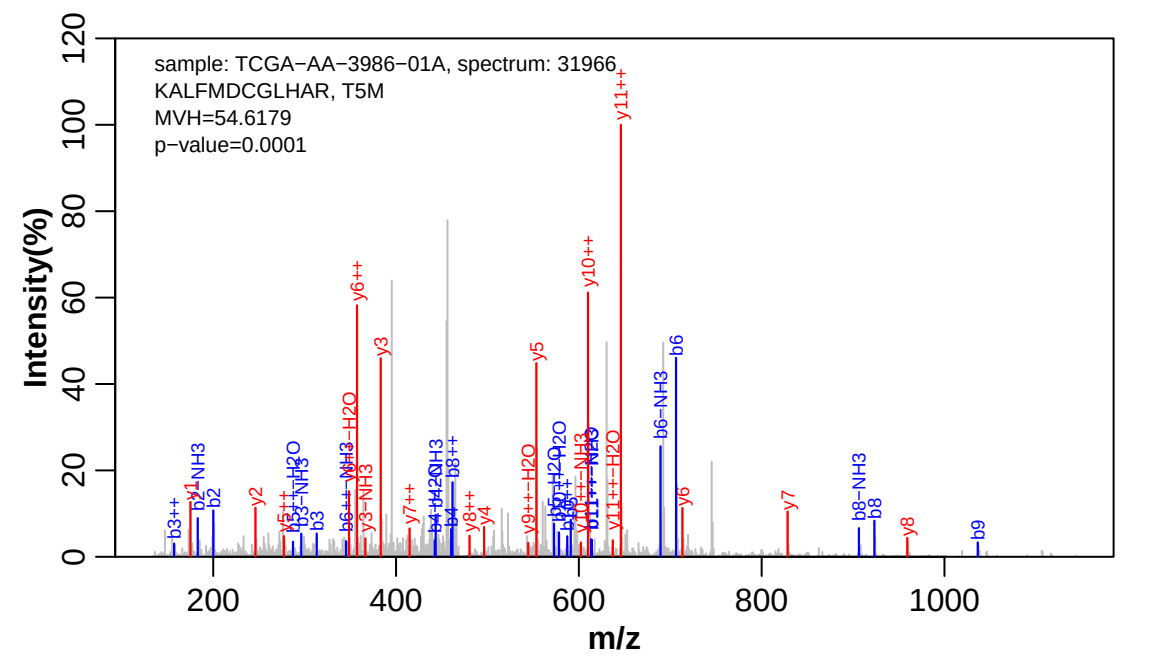

sample: TCGA−AA−3986−01A, spectrum: 99066
GLSFDAAATSGGSASSEK, T2I
MVH=83.8295
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y11
y8
y12
y13
y3
y4
y5
y6
y7
b5−H2O
b6−H2O
b8−H2O
b10−H2O
b9
b12−H2O
b14−H2O
b15−H2O
y14−H2O
y16−H2O
b16
y15
b17

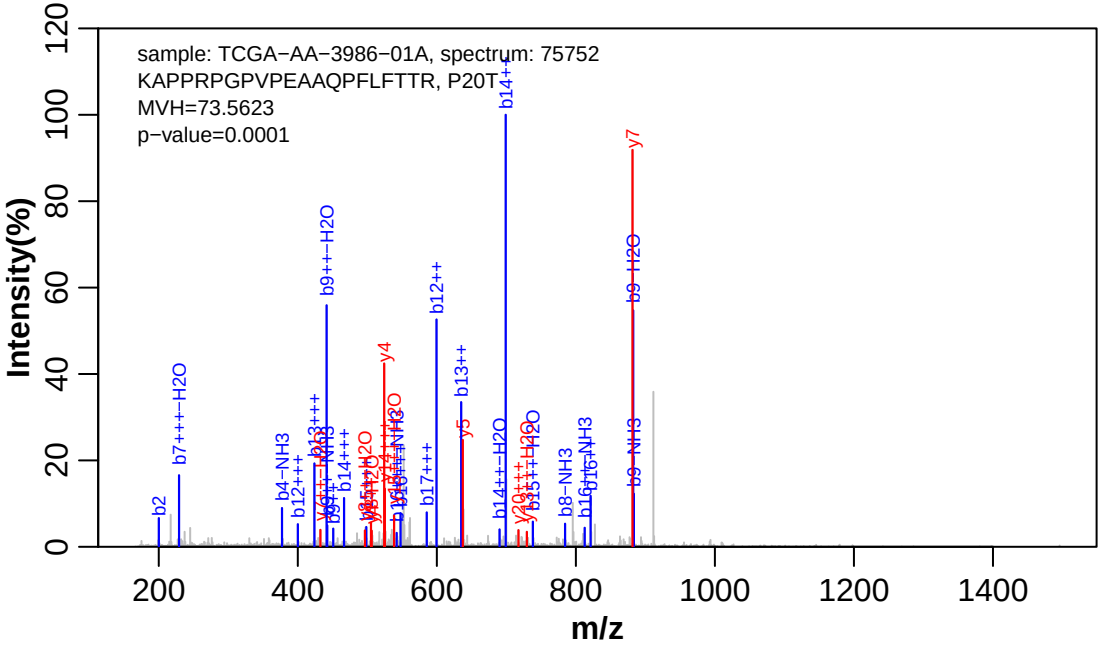

sample: TCGA−AA−3986−01A, spectrum: 49406
GQTGALLQNTVESLSK, D9N
MVH=74.2790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
y6
y8
y9
y10
y11
y13
y14

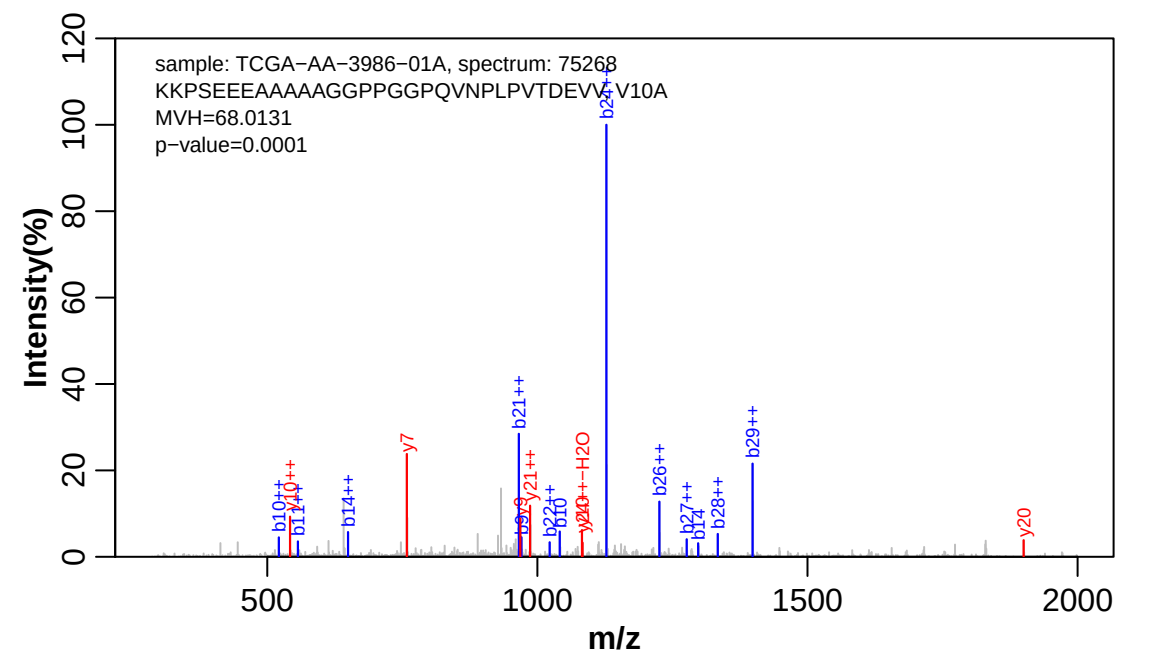

sample: TCGA−AA−3986−01A, spectrum: 32855
GVAGSSVAVLCPYNR, G5S
MVH=53.2559
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
y8
b10
y7
b11
y9
y10
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3

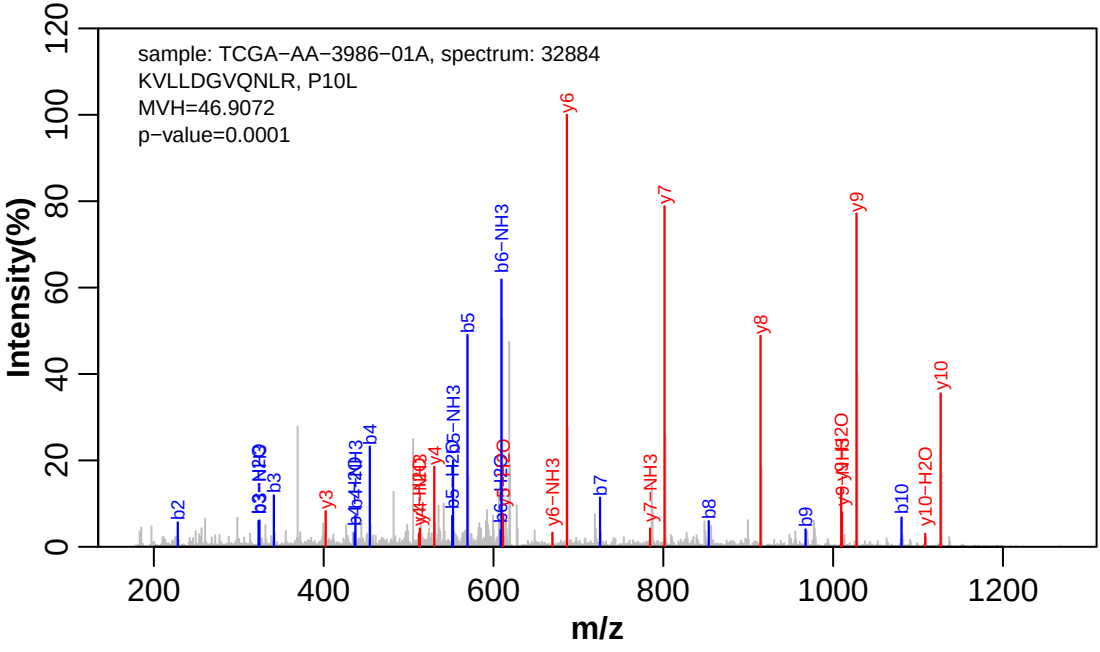

sample: TCGA−AA−3986−01A, spectrum: 81415
GYQQDAYDGKDYLALNEDLR,R3Q
MVH=64.1875
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
y7
b6−NH3
b15++
b5++−NH3
y4
y3
y8++
b5
b6
b10
b11
b12
b13

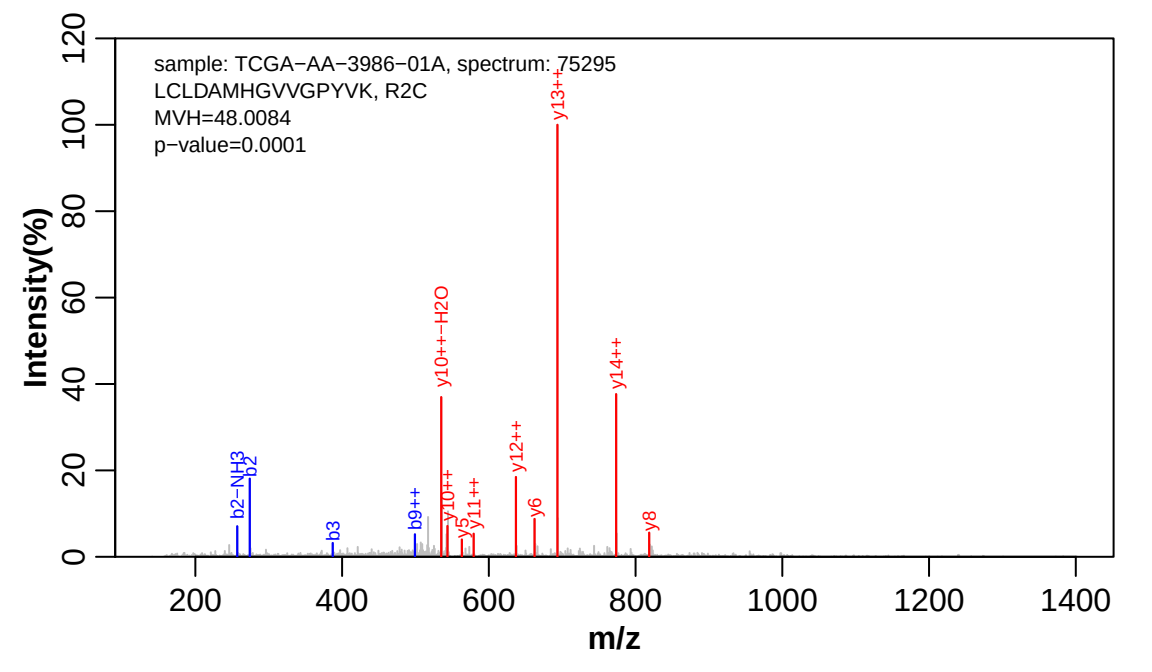

sample: TCGA−AA−3986−01A, spectrum: 1822
HNYGAVESFTVQR, V5A
MVH=58.8231
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1−NH3
y1
b3++−H2O
y2−H2O
y2−NH3
y2
y3
b8++
y4−H2O
y4−NH3
b6
b5
b10++
b11++−H2O
b11++
y6−H2O
y6
b7
y7−H2O
b9
b2

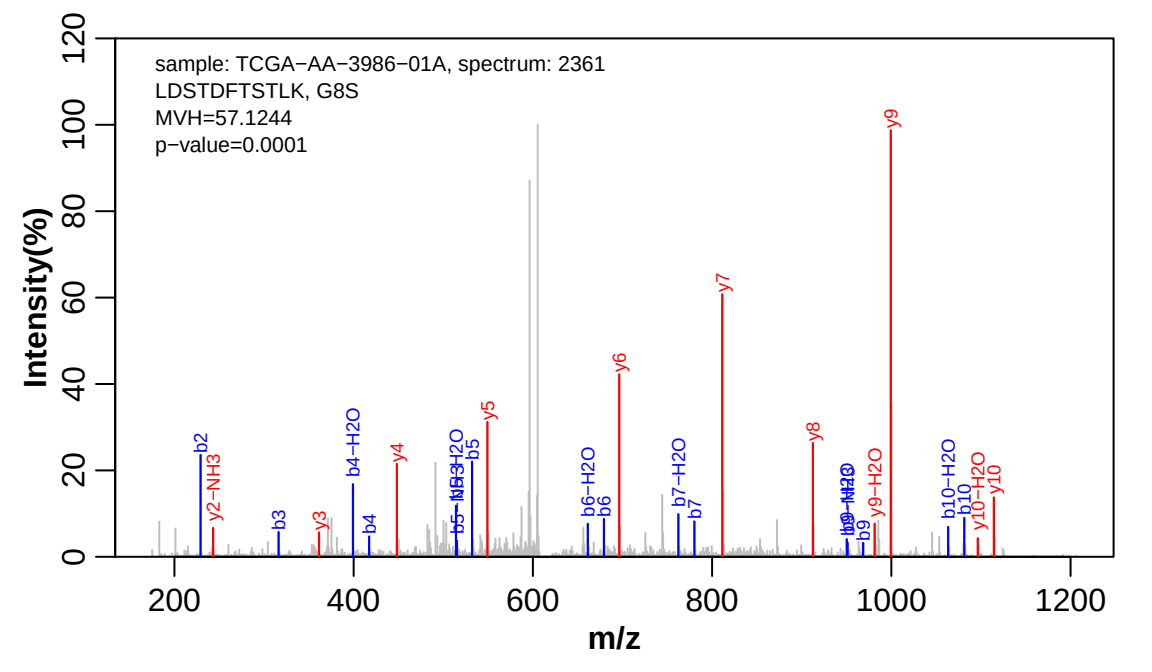

sample: TCGA−AA−3986−01A, spectrum: 31966
KALFMDCGLHAR, T5M
MVH=54.6179
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3++
b1
b1−NH3
b2
b2−NH3
y2
y5++
b3−H2O
b3−NH3
b3
b6++−NH3−H2O
y3−NH3
y6++
y3
y7++
b4−H2O
b4−NH3
b8++
b4
y8++
y4
y9++−H2O
y5
b5++−H2O
b5++−NH3
y10++−NH3
y11++−H2O
y10++
y11++
b6−NH3
b6
y6
y7
b8−NH3
b8
y8
b9

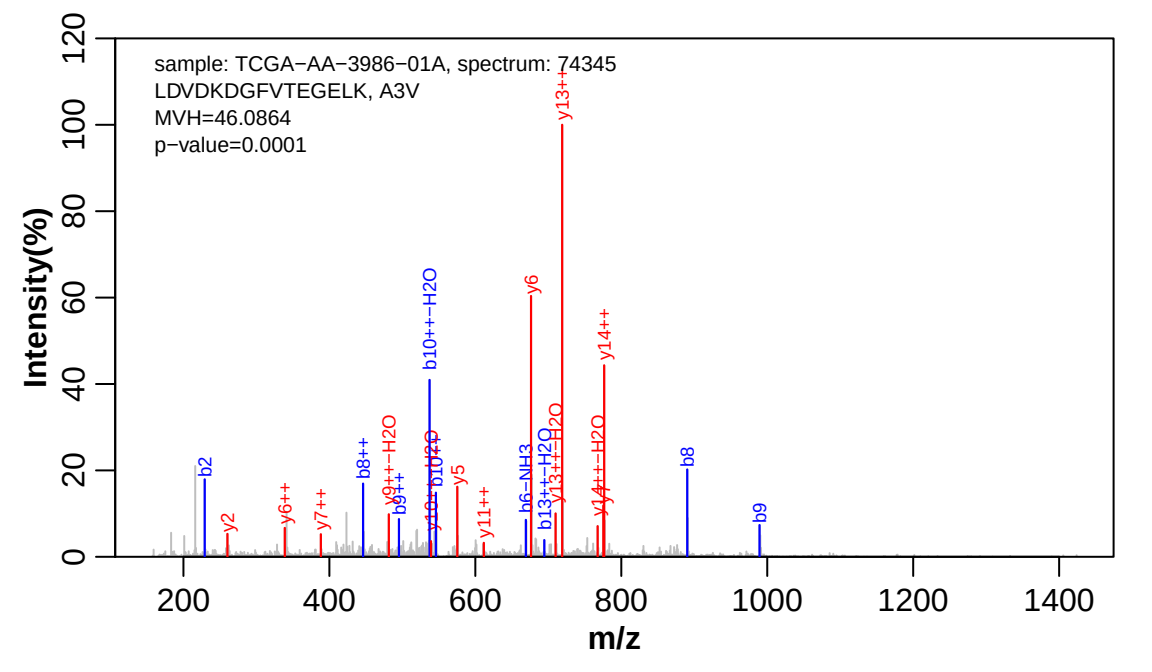

sample: TCGA−AA−3986−01A, spectrum: 75752
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=73.5623
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b7+++−H2O
b4−NH3
b12+++
b13+++
b14+++
b9++−H2O
b17+++
b12++
y4
b13++
y5
b14++−H2O
b14++
b8−NH3
b16+−NH3
b9−NH3
b9−H2O
y7

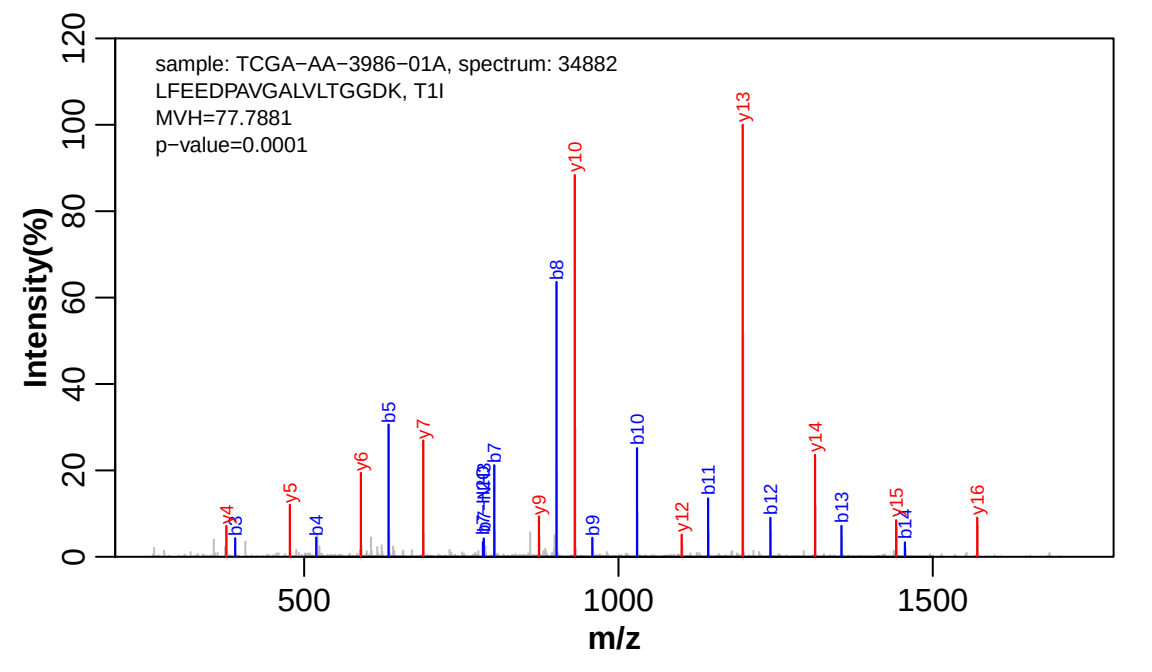

sample: TCGA−AA−3986−01A, spectrum: 75268
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=68.0131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
y7
b29++
b26++
b14++
b10++
y10++
b11++
b9*3
y21++
b22++
b10
y20++−H2O
b27++
b12
b28++
y20

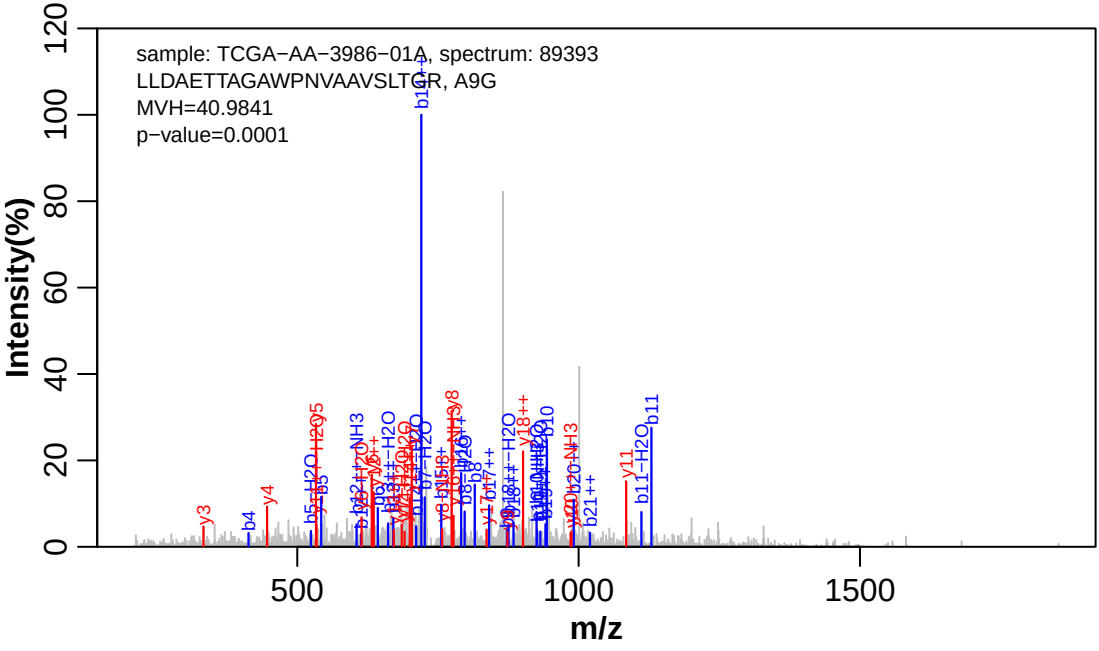

sample: TCGA−AA−3986−01A, spectrum: 32884
KVLLDGVQNLR, P10L
MVH=46.9072
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y10
b6−NH3
b5
b4
b3
b2
y6−NH3
y7−NH3
y10−H2O
b7
b8
b9
b10
y3
y4
b5−NH3

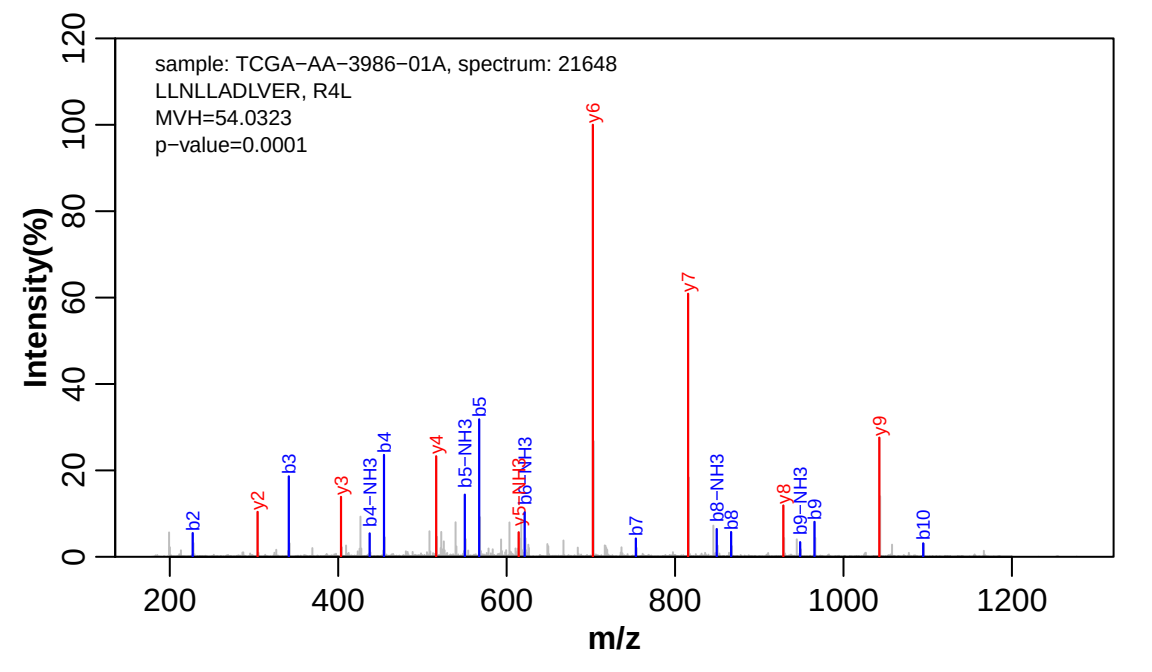

sample: TCGA−AA−3986−01A, spectrum: 75295
LCLDAMHGVVGPYVK, R2C
MVH=48.0084
p−value=0.0001
Intensity(%)
m/z
y13++
y10++−H2O
y14++
y12++
y6
y8
y11++
y10++
y5
b9++
b3
b2−NH3
b2

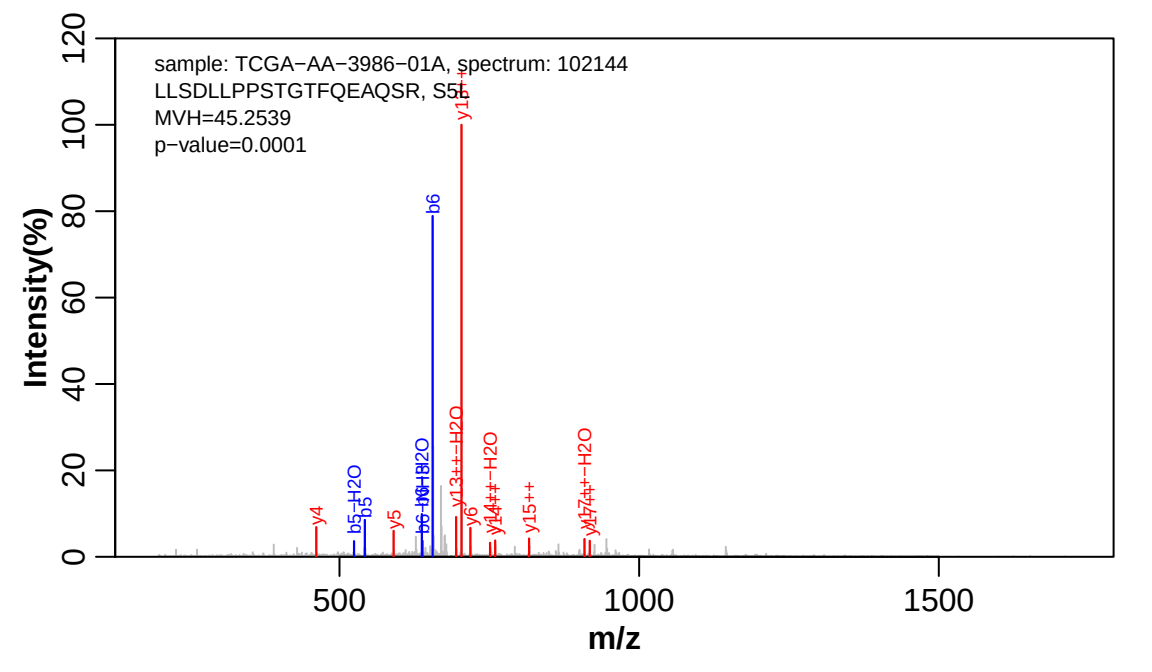

sample: TCGA−AA−3986−01A, spectrum: 2361
LDSTDFTSTLK, G8S
MVH=57.1244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9
y9−H2O
b9
b10−H2O
b10
y10−H2O
y10

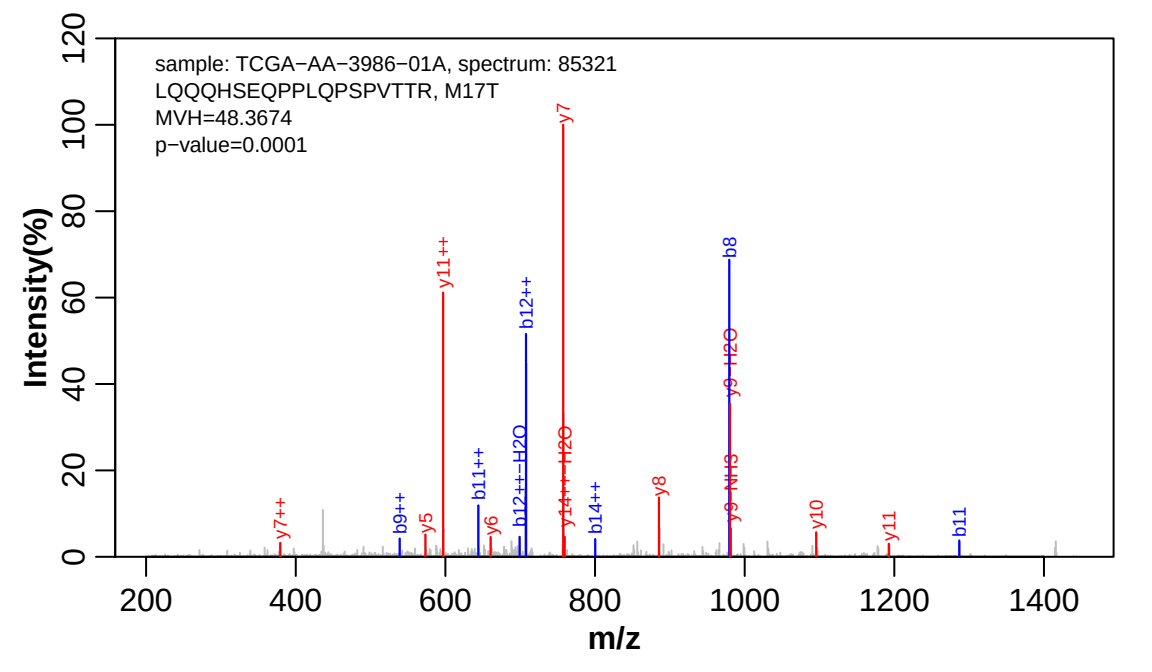

sample: TCGA−AA−3986−01A, spectrum: 74345
LDVDKDGFVTEGELK, A3V
MVH=46.0864
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y6++
y7++
b8++
y9++−H2O
b9++
y10++ b10++
b10++−H2O
y5
y11++
b6−NH3
b13++−H2O
y13++−H2O
y6
y13++
y14++−H2O
y14++
b8
b9

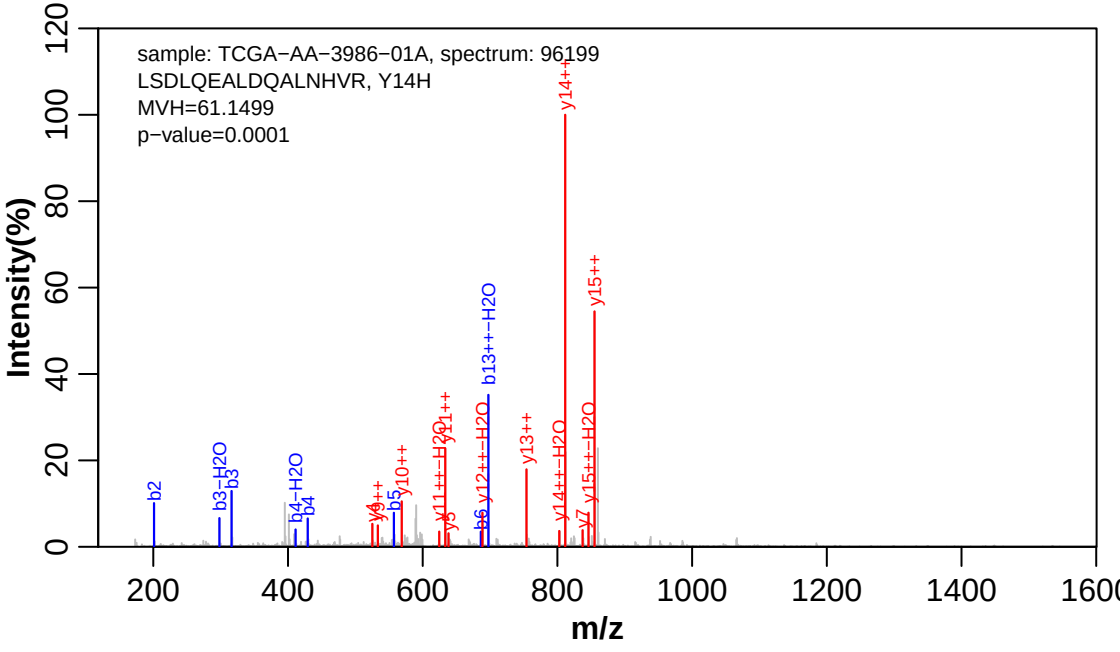

sample: TCGA−AA−3986−01A, spectrum: 34882
LFEEDPAVGALVLTGGDK, T1I
MVH=77.7881
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7−H2O
b7−NH3
b7
y9
b8
y10
b9
b10
y12
b11
b12
y14
b13
y15
b14
y16
y13

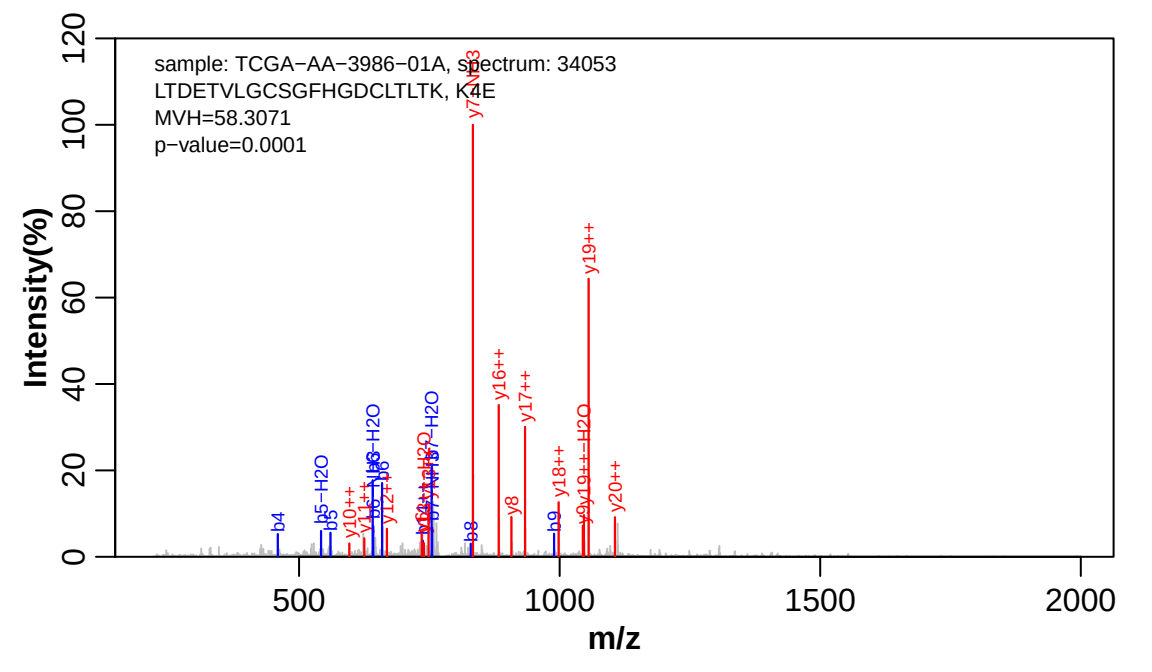

sample: TCGA−AA−3986−01A, spectrum: 89393
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=40.9841
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b10++
y3
b4
y4
b5−H2O++
y5
b5
b6
b8
y18++
b11
y11
b11−H2O
b21++

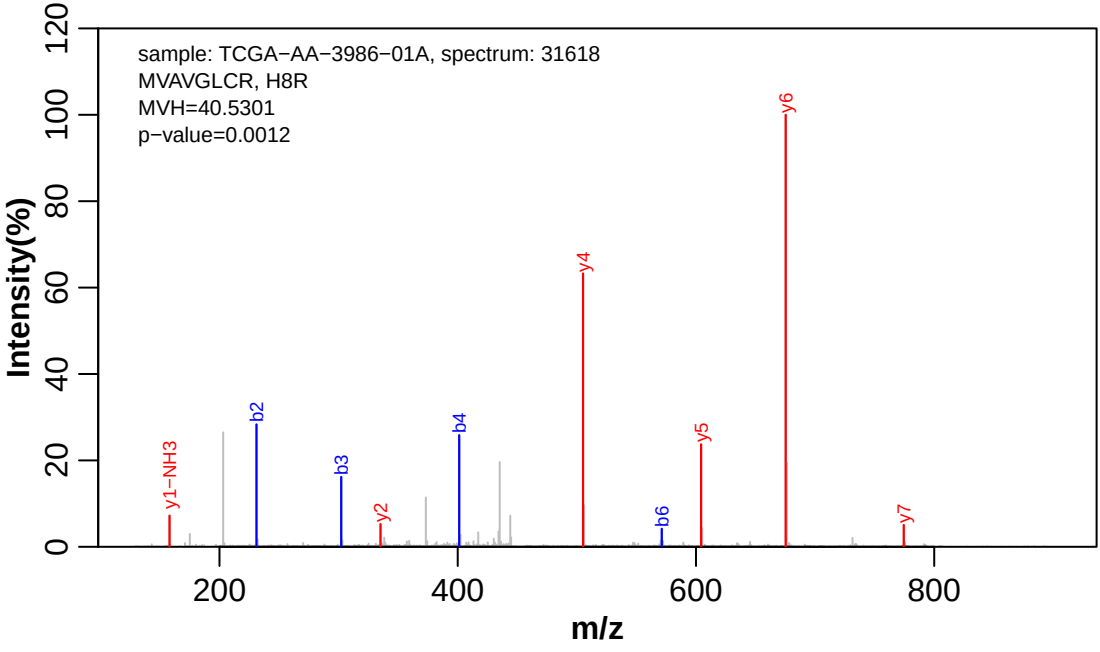

sample: TCGA−AA−3986−01A, spectrum: 21648
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b5−NH3
b4
b4−NH3
b3
b2
b6
b6−NH3
y5
y5−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

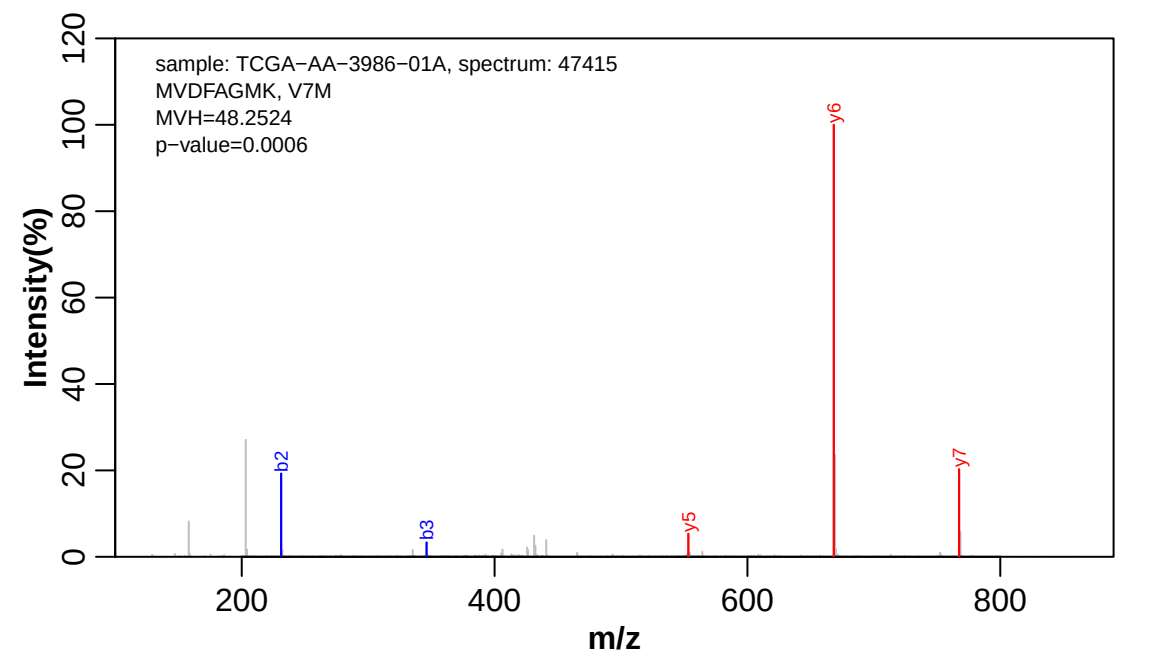

sample: TCGA−AA−3986−01A, spectrum: 102144
LLSDLLPPSTGTFQEAQSR, S5f
MVH=45.2539
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b5−H2O
b5
y5
b6−H2O
b6
b6
y13++−H2O
y15++
b6
y6
y14++−H2O
y14++
y15++
y17++−H2O
y17++

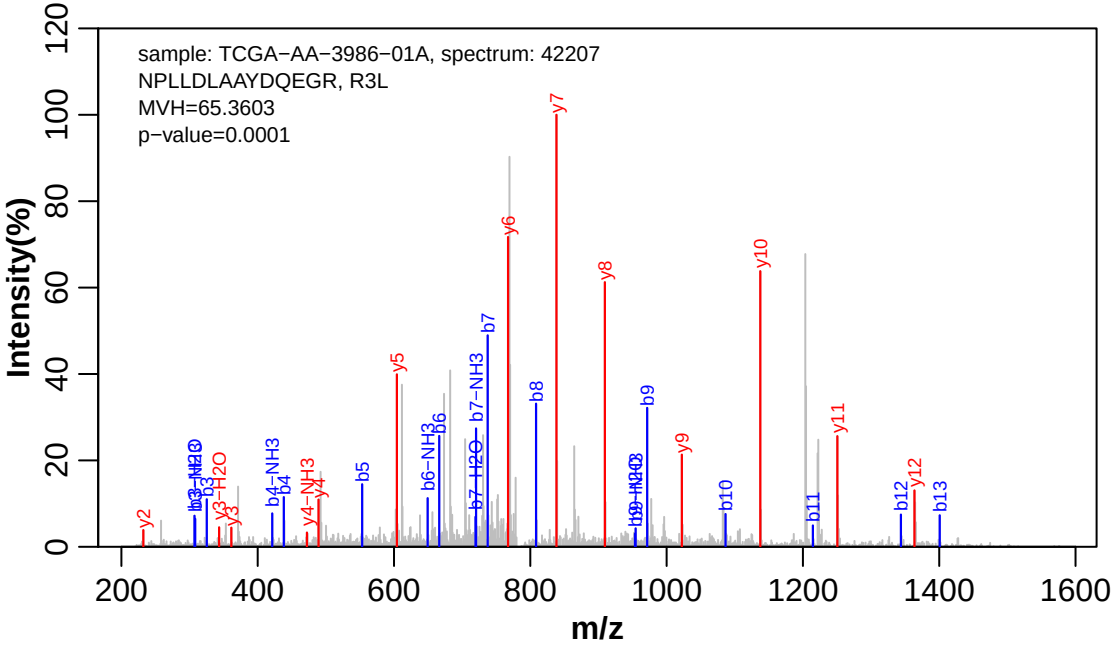

sample: TCGA−AA−3986−01A, spectrum: 85321
LQQQHSEQPPLQPSPVTTR, M17T
MVH=48.3674
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7++
b9++
y5
y11++
y6
b11++
b12++−H2O
b12++
y14++−H2O
b14++
y8
y9−NH3
y9−H2O
b8
y10
y11
b11

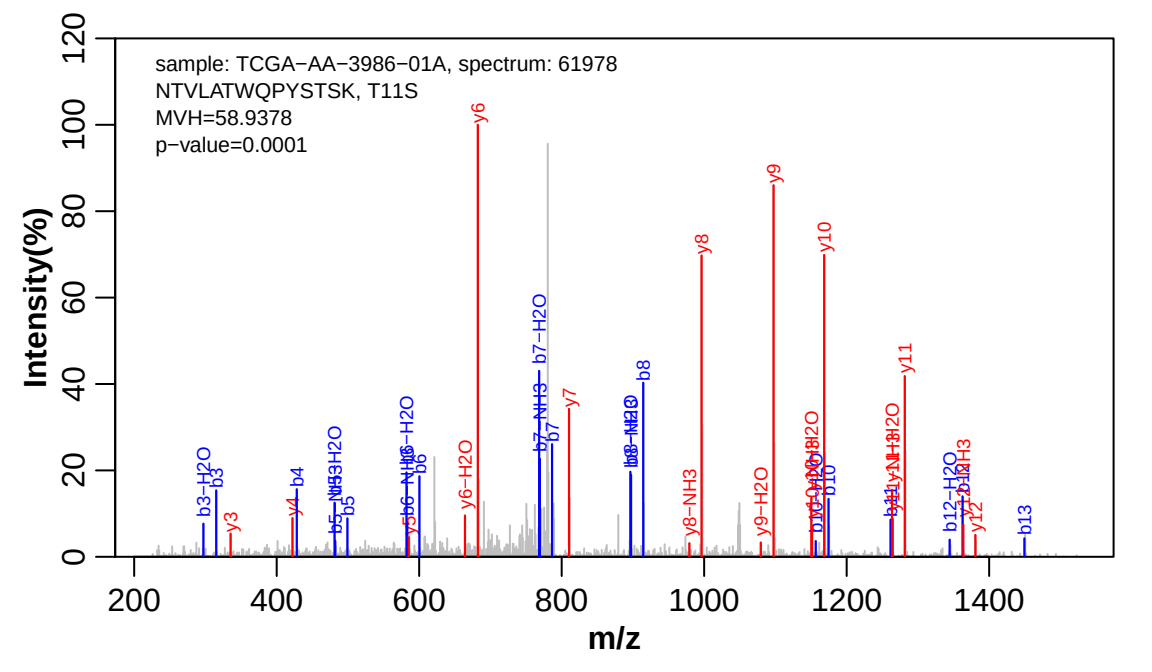

sample: TCGA−AA−3986−01A, spectrum: 96199
LSDLQEALDQALNHVR, Y14H
MVH=61.1499
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b3
b4−H2O
b4
y3++
y4
b5
y10++
y11++−H2O
y11++
y3
b6
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y7
y15++−H2O
y15++

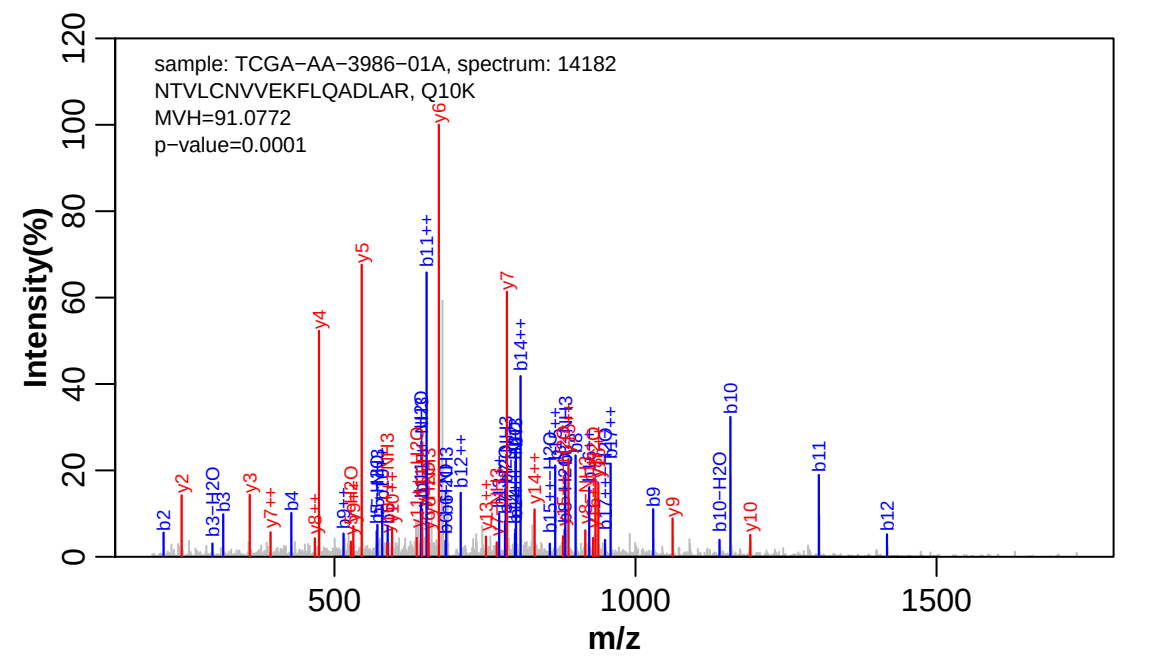

sample: TCGA−AA−3986−01A, spectrum: 34053
LTDETVLGCSGFHGDCLTLTK, K4E
MVH=58.3071
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7++
y16++
y17++
y19++
y18++
y9++−H2O
y20++
y8
b9
b8
b4
b5−H2O
y10++
y12++
b6
y16++−H2O

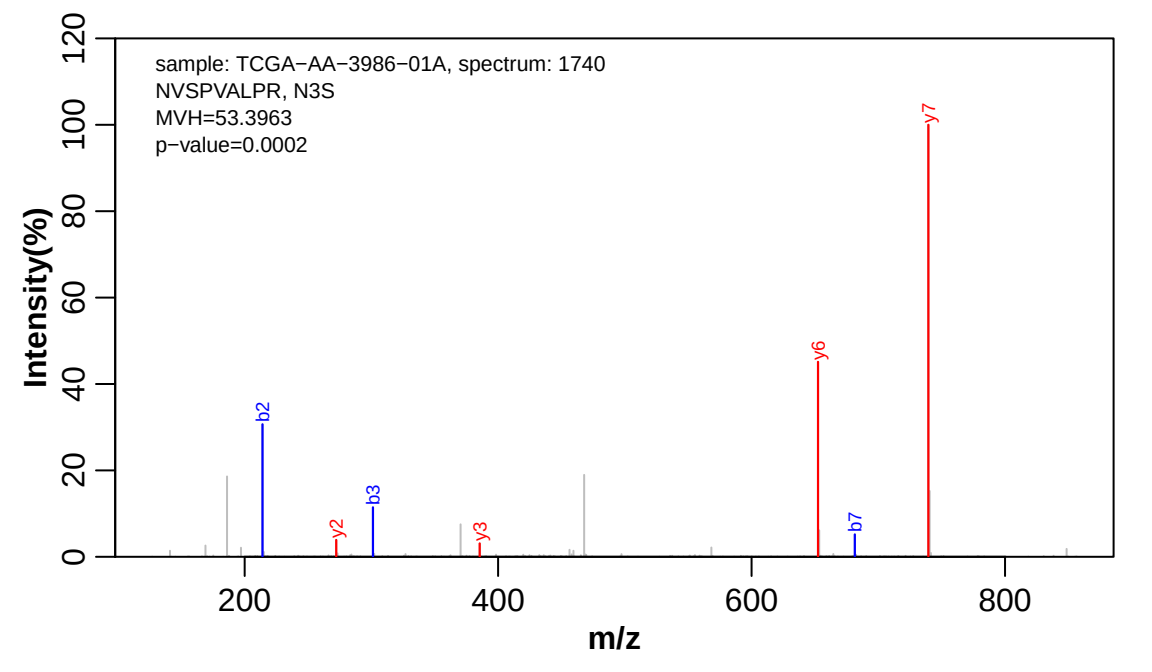

sample: TCGA−AA−3986−01A, spectrum: 31618
MVAVGLCR, H8R
MVH=40.5301
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

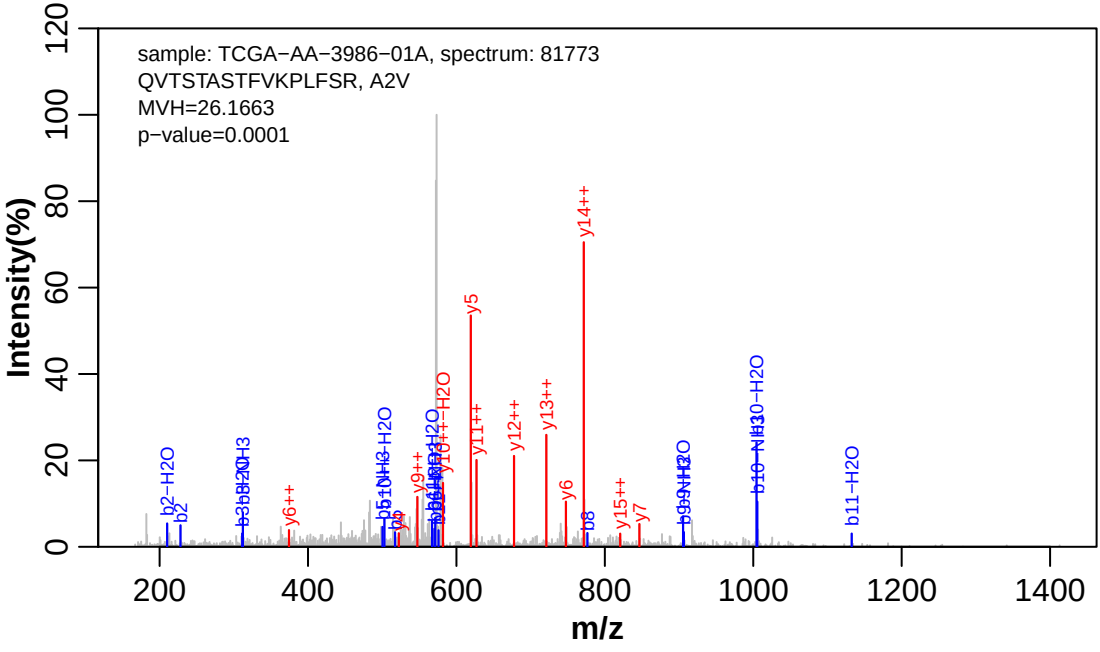

sample: TCGA−AA−3986−01A, spectrum: 47415
MVDFAGMK, V7M
MVH=48.2524
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y5
y6
y7

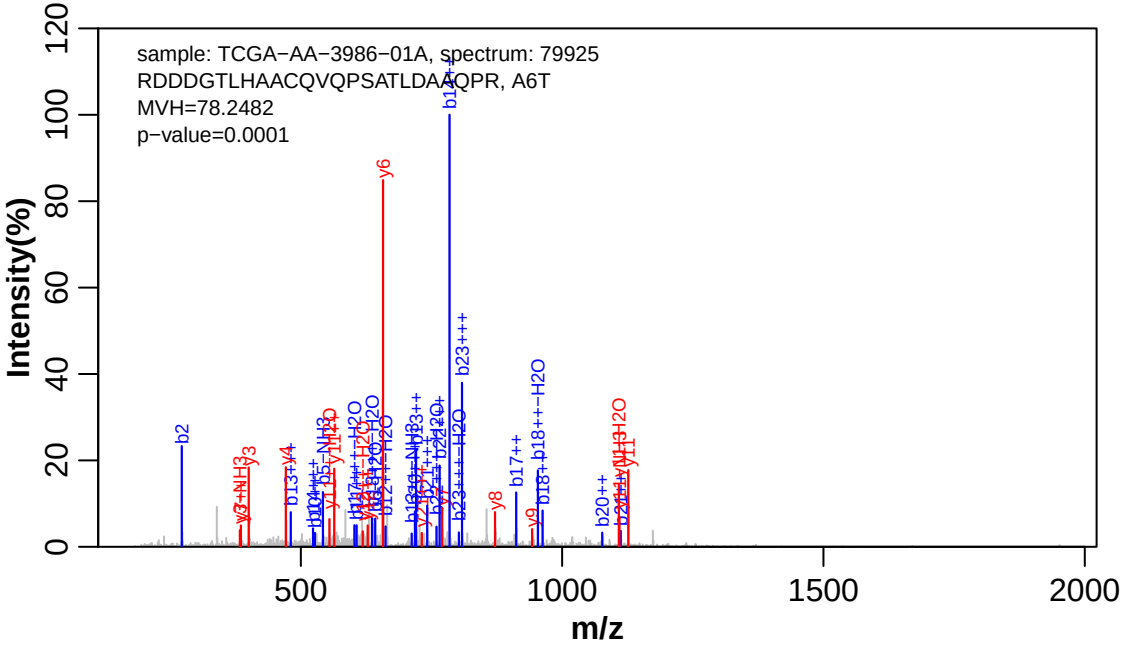

sample: TCGA−AA−3986−01A, spectrum: 42207
NPLLDLAAYDQEGR, R3L
MVH=65.3603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y3−H2O
b4−NH3
b4
y4
y4−NH3
b5
b6−NH3
b6
b7
b7−NH3
b7−H2O
y5
y6
b8
y7
y8
b9
y9
b10
y10
b11
y11
b12
y12
b13

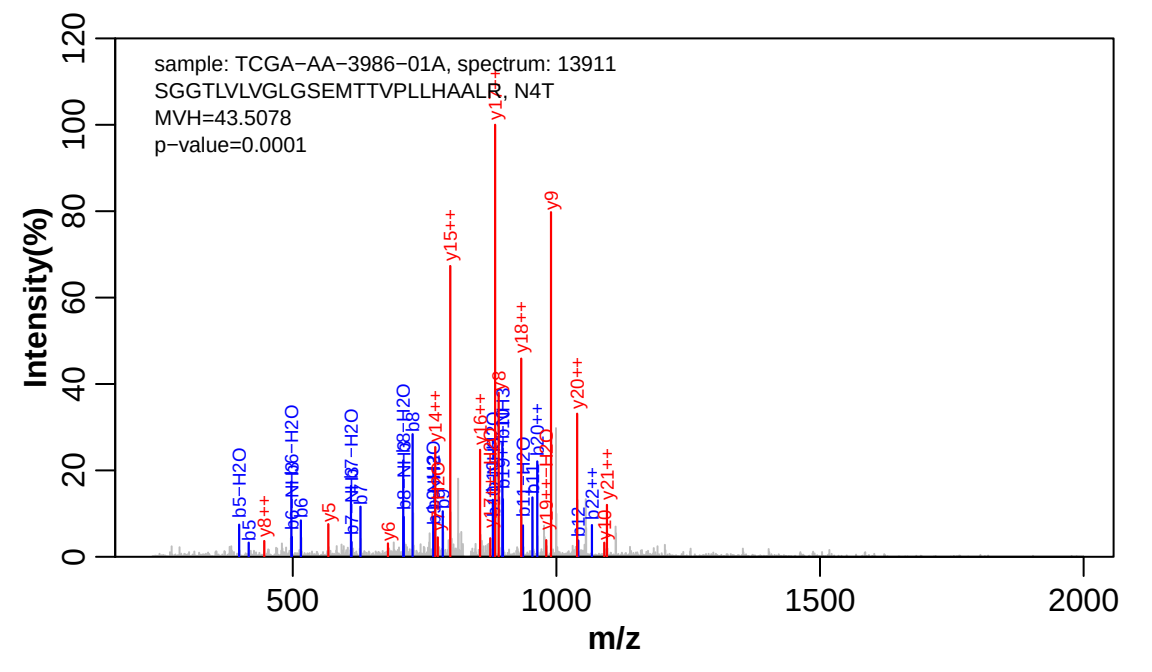

sample: TCGA−AA−3986−01A, spectrum: 61978
NTVLATWQPYSTSK, T11S
MVH=58.9378
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y9
y8
y10
y11
b7−H2O
b7−NH3
b8
y7
y6−H2O
y8−NH3
y9−H2O
b3−H2O
b3
y3
y4
b4
b5
b6
b10
b12−H2O
b13

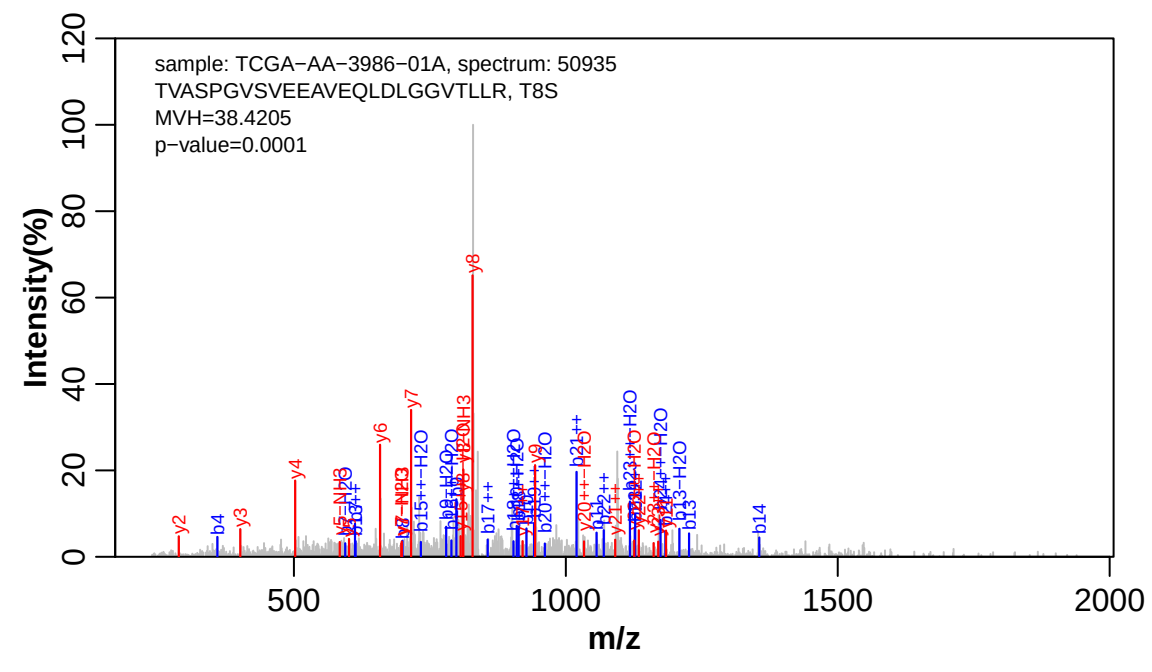

sample: TCGA−AA−3986−01A, spectrum: 14182
NTVLCNVVEKFLQADLAR, Q10K
MVH=91.0772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
b3−H2O
b3
y3
y7++
b4
y4
y8++
y5
b11++
y6
y7
b14++
b10
b10−H2O
b11
b12
b9
y9
y10

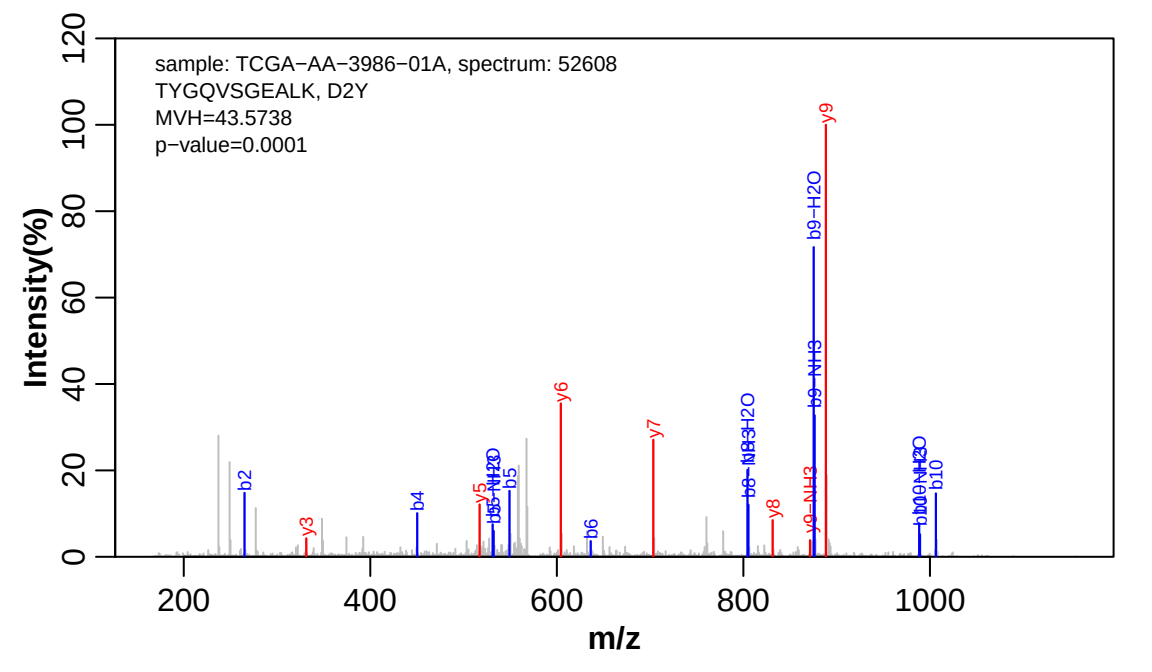

sample: TCGA−AA−3986−01A, spectrum: 1740
NVSPVALPR, N3S
MVH=53.3963
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
y6
b7
y7

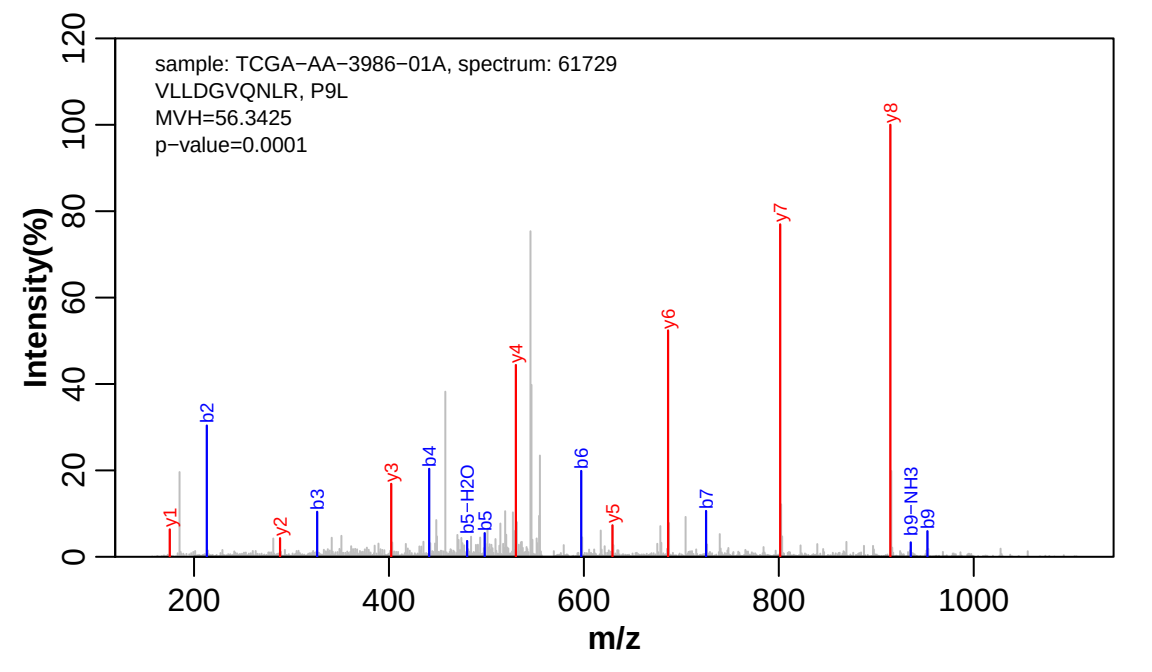

sample: TCGA−AA−3986−01A, spectrum: 81773
QVTSTASTFVKPLFSR, A2V
MVH=26.1663
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b2
y6++
y5
y14++
y11++
y12++
y13++
y6
y15++
y7
b8
b11−H2O

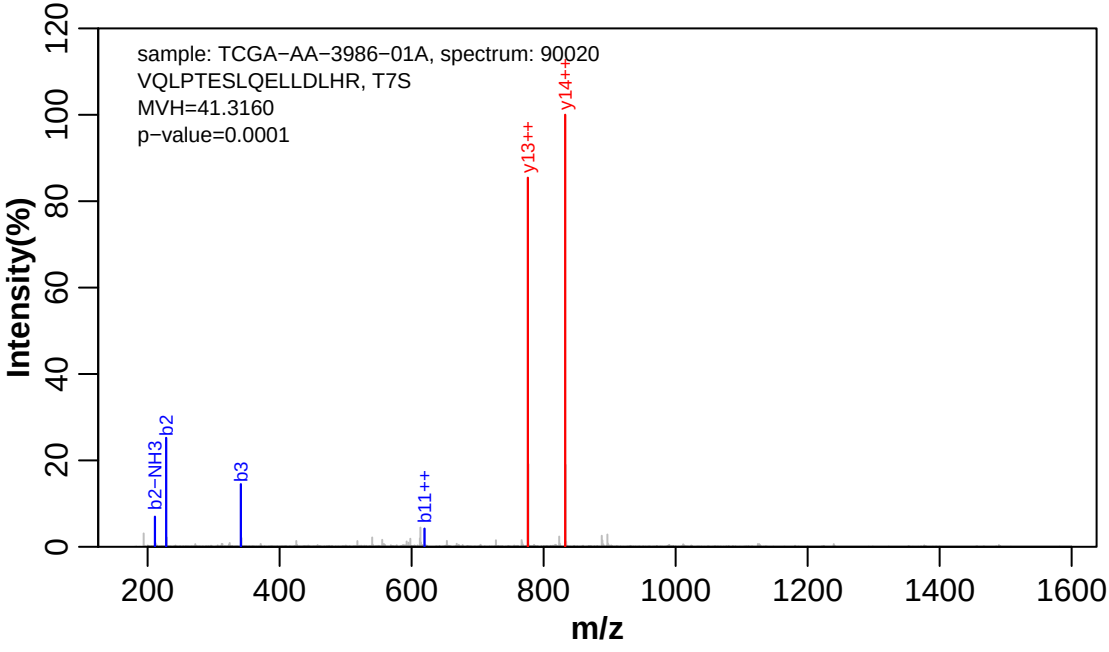

sample: TCGA−AA−3986−01A, spectrum: 79925
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=78.2482
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
y3
y3−NH3
b13+y4
y6
b23+++
b17++
b18++−H2O
y8
y9
b20++
y11
b12++

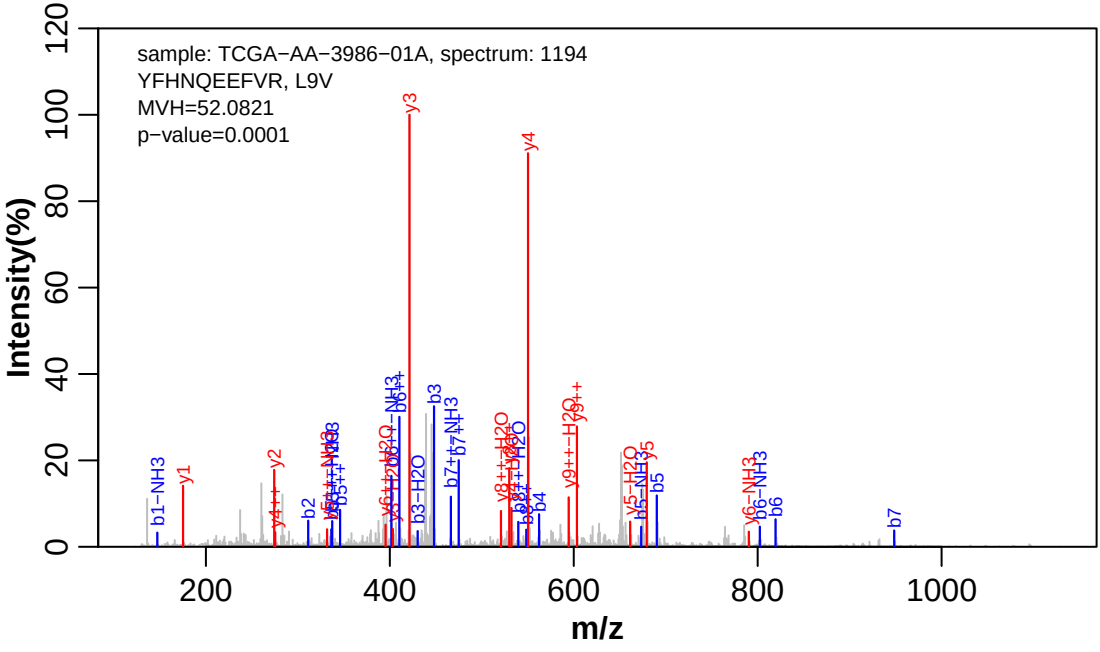

sample: TCGA−AA−3986−01A, spectrum: 13911
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=43.5078
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y9
y15++
y18++
y20++
y14++
y16++
y8
b5−H2O
y8++
b6−H2O
y5
b7−H2O
y6
b8−H2O
y19++
y21++
b12
b22++
y10

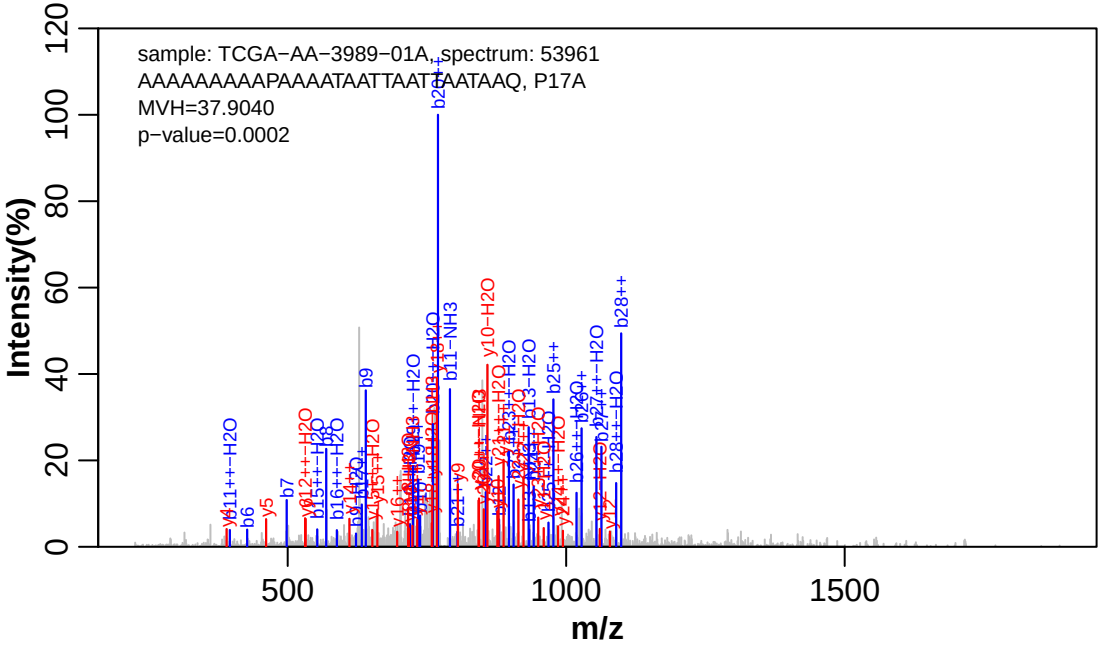

sample: TCGA−AA−3986−01A, spectrum: 50935
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=38.4205
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y7
y6
y4
y3
y2
b14
b4

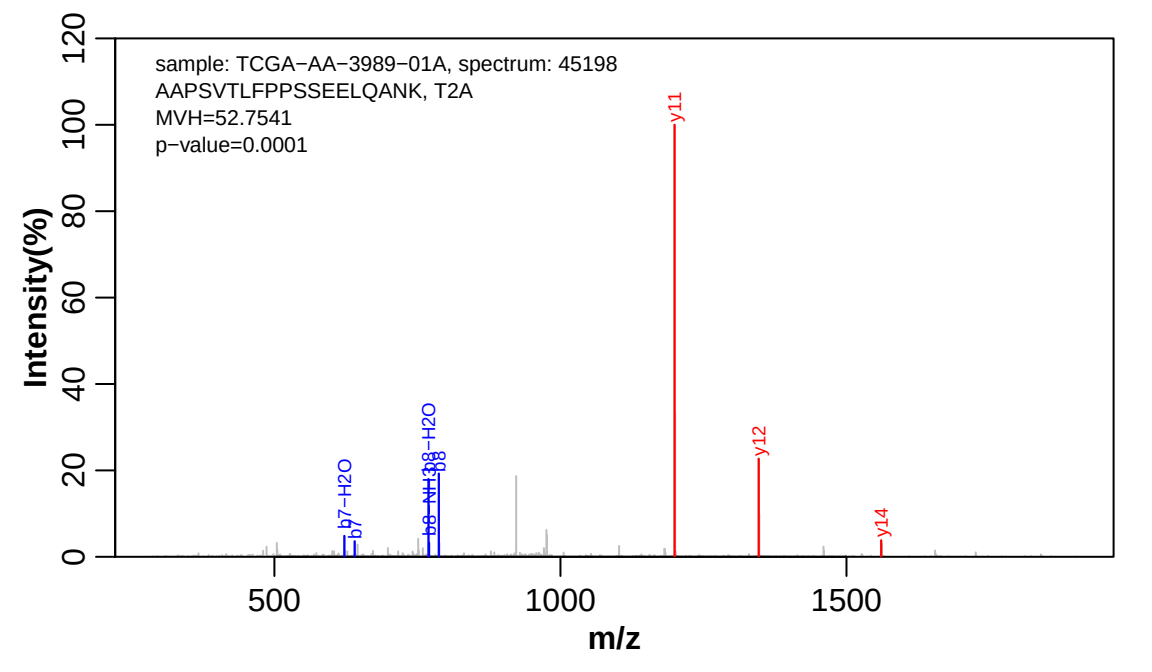

sample: TCGA−AA−3986−01A, spectrum: 52608
TYGQVSGEALK, D2Y
MVH=43.5738
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b4
y5
b5
y6
b6
y7
y8
b9−H2O
b9−NH3
y9
b10

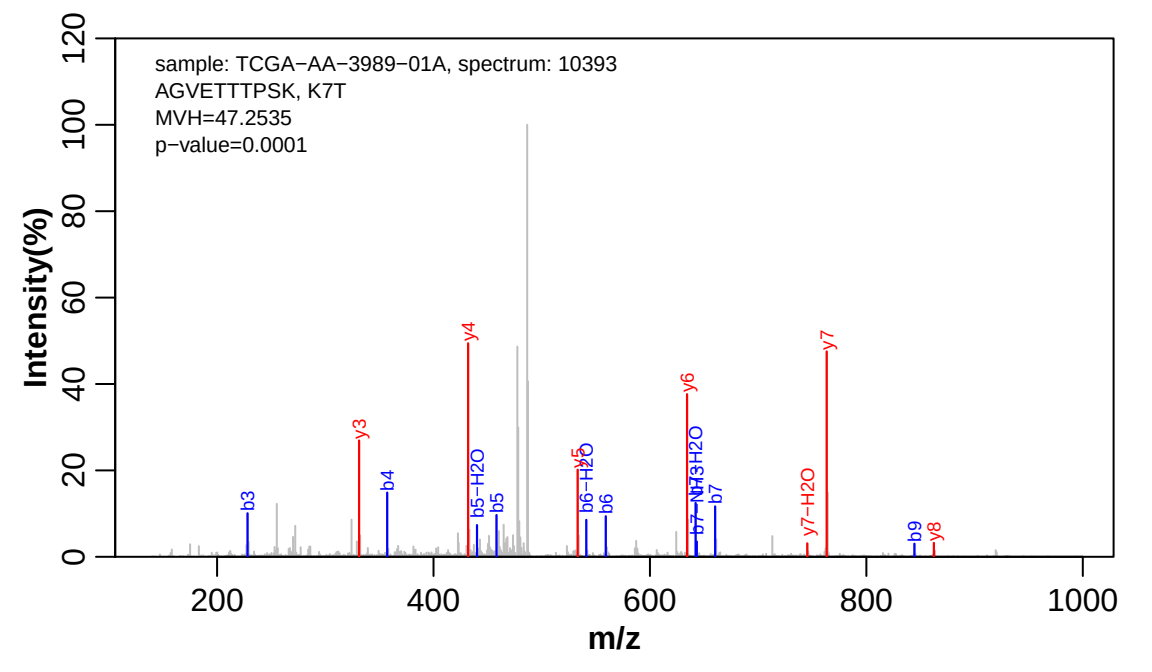

sample: TCGA−AA−3986−01A, spectrum: 61729
VLLDGVQNLR, P9L
MVH=56.3425
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y2
b3
y3
b4
b5−H2O
b5
y4
b6
y5
y6
b7
y7
y8
b9−NH3
b9

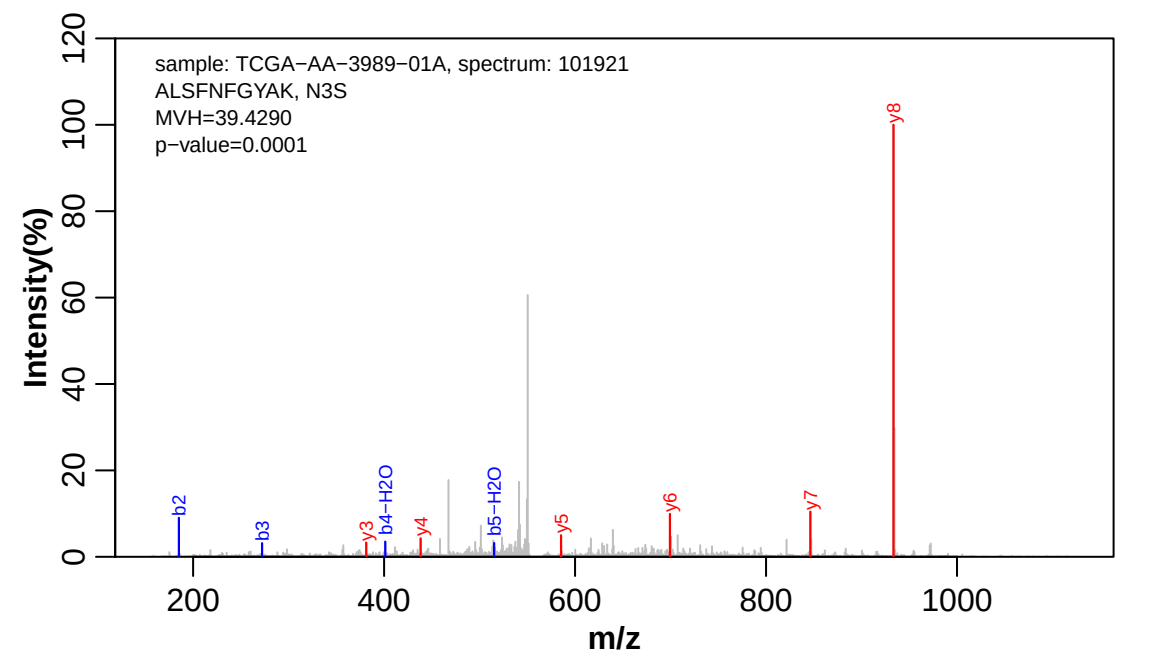

sample: TCGA−AA−3986−01A, spectrum: 90020
VQLPTESLQELLDLHR, T7S
MVH=41.3160
p−value=0.0001
y14++
y13++
b2
b2−NH3
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

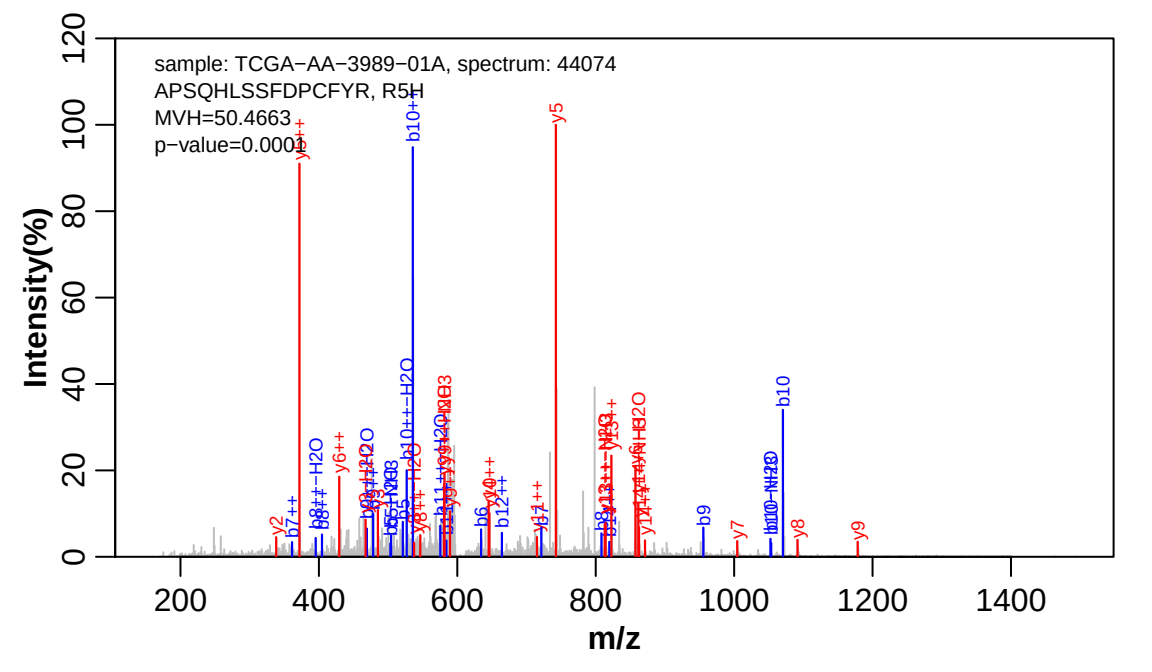

sample: TCGA−AA−3986−01A, spectrum: 1194
YFHNQEEFVR, L9V
MVH=52.0821
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y3
y4
y2
y1
b1−NH3
b2
b3
b3−H2O
b4
b5
b6
b7
y5
y6−NH3
y6
y7
y8
y9
y9++
y9++−H2O
b6−NH3
b7−NH3
b7++
b5−NH3
y5−H2O
y6−H2O
y8++−H2O
y8++−NH3
y6++−H2O
y6++−NH3
b5++
b6++
y4++
y4++−NH3
y4++−H2O

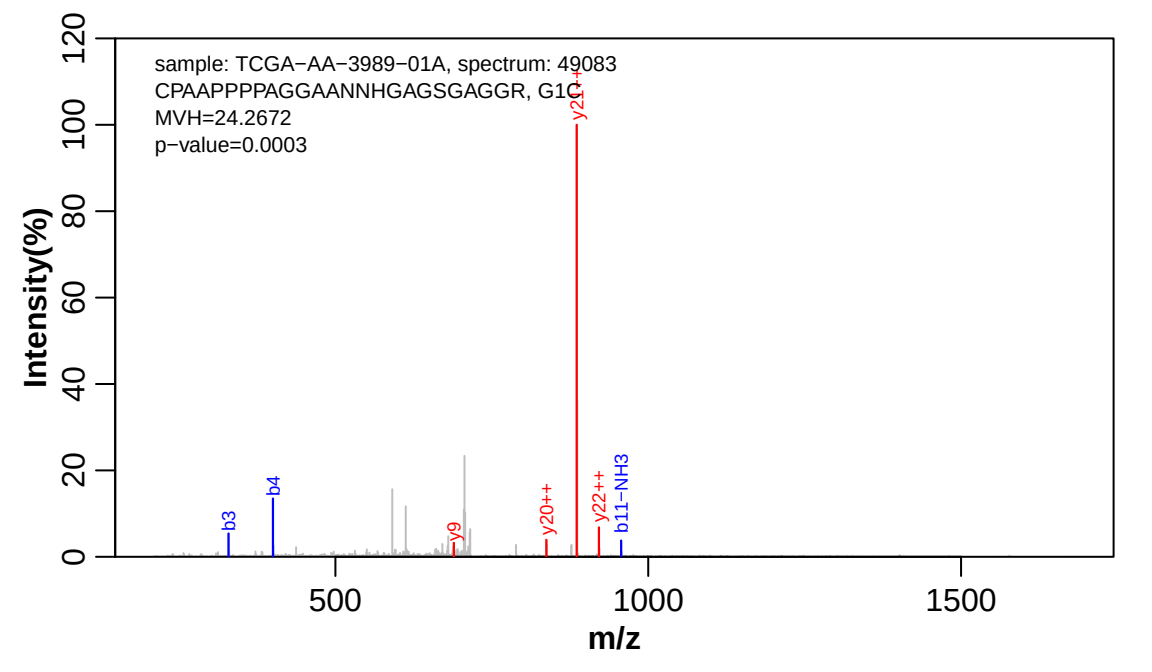

sample: TCGA−AA−3989−01A, spectrum: 53961
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.9040
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b11−NH3
y10−H2O
b28++−H2O
b25++
y11++−H2O
b6
y5
b7
b9
b21++y9

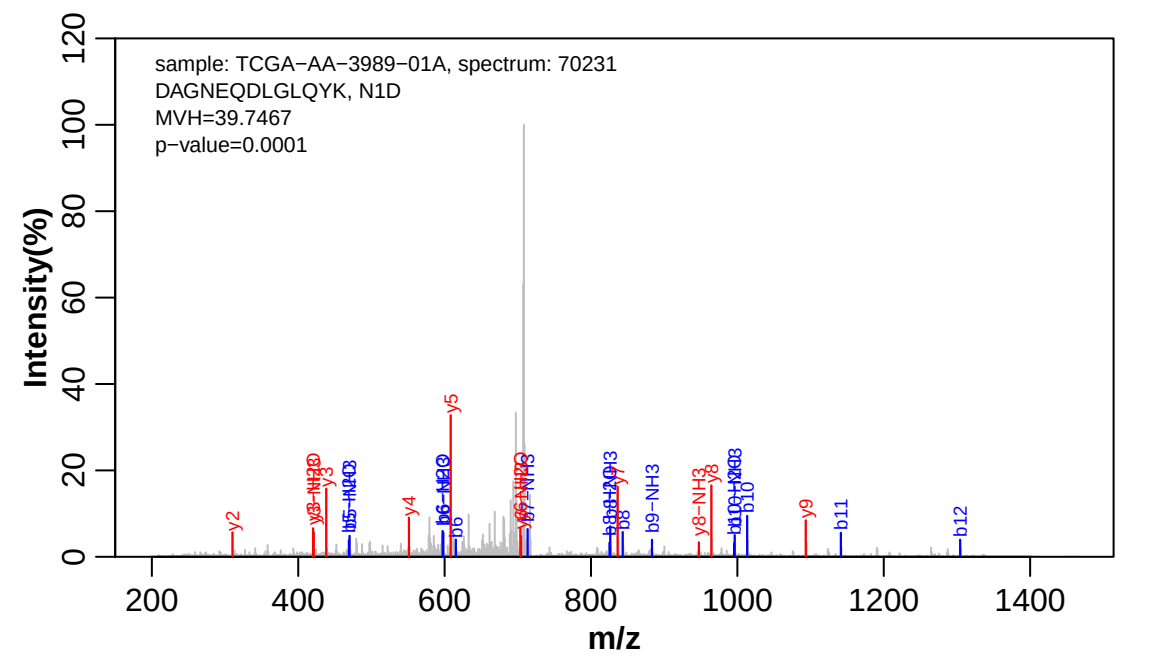

sample: TCGA−AA−3989−01A, spectrum: 45198
AAPSVTLFPPSSEELQANK, T2A
MVH=52.7541
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8
b8−H2O

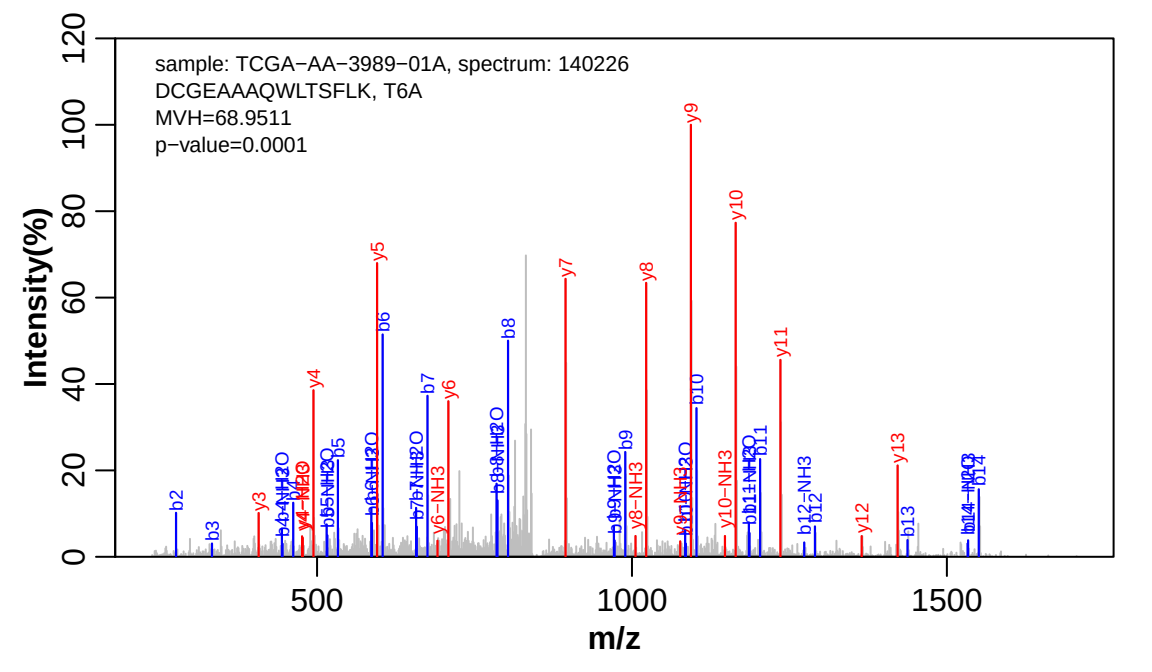

sample: TCGA−AA−3989−01A, spectrum: 10393
AGVETTTPSK, K7T
MVH=47.2535
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
b7−NH3
b7−H2O
b7
y6
y7−H2O
y7
b9
y8

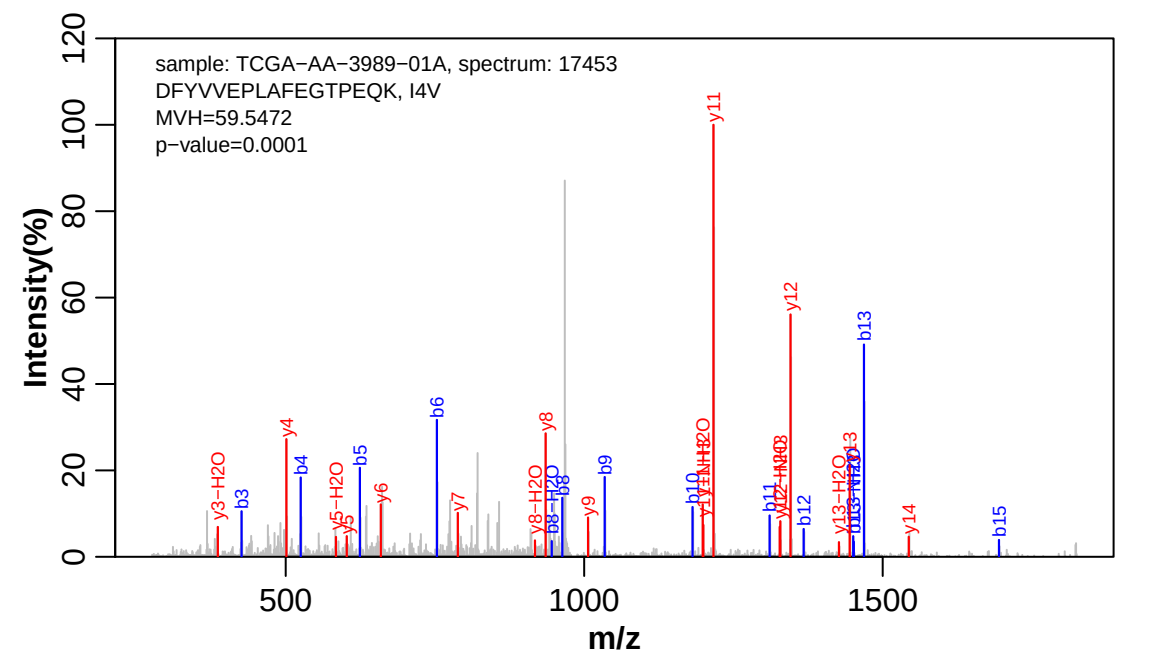

sample: TCGA−AA−3989−01A, spectrum: 101921
ALSFNFGYAK, N3S
MVH=39.4290
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y3
b4−H2O
y4
b5−H2O
y5
y6
y7
y8

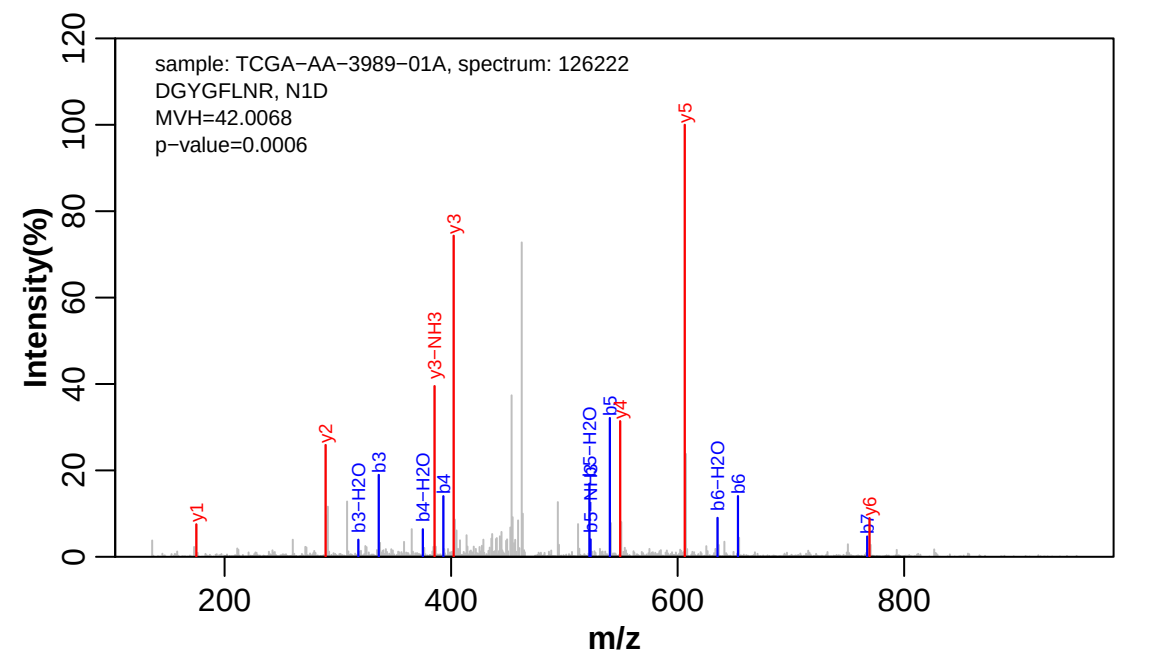

sample: TCGA−AA−3989−01A, spectrum: 44074
APSQHLSSFDPCFYR, R5H
MVH=50.4663
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
b10++
y6++
y7
y8
y9
b10
b9
b12++
y2
b7++
b8++
b6
y1++

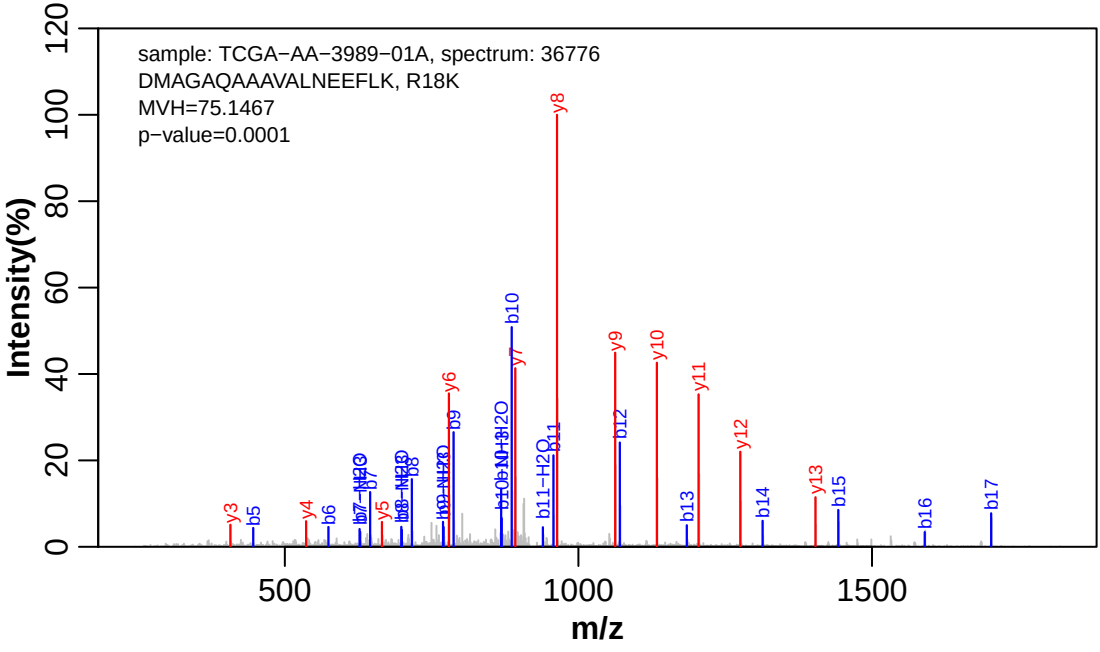

sample: TCGA−AA−3989−01A, spectrum: 49083
CPAAPPPPAGGAANNHGAGSGAGGR, G1C
MVH=24.2672
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4
y9
y20++
y21++
y22++
b11−NH3

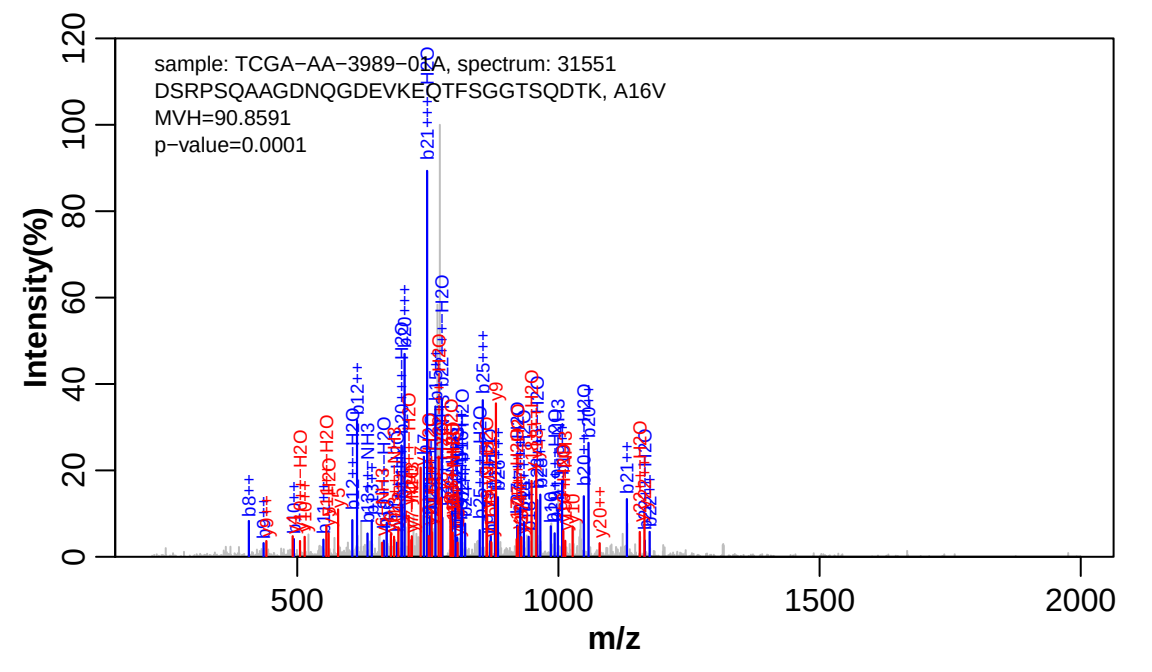

sample: TCGA−AA−3989−01A, spectrum: 70231
DAGNEQDLGLQYK, N1D
MVH=39.7467
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
y4
y5
y6
y7
y8
y9
b6
b8
b9−NH3
y8−NH3
b10
b11
b12

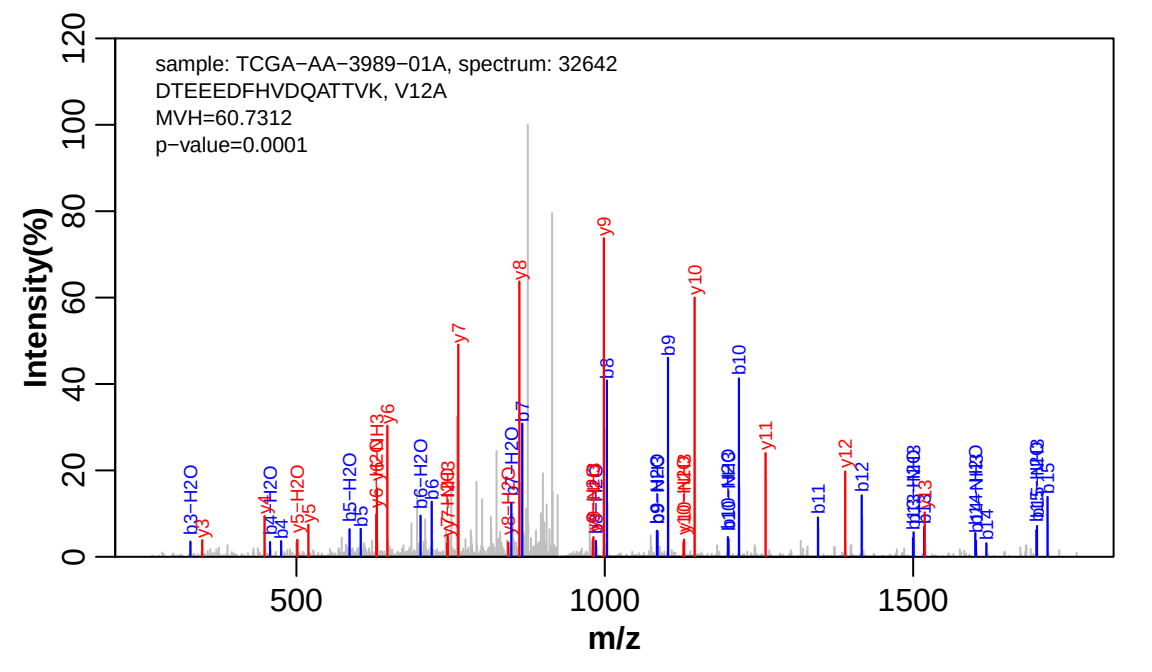

sample: TCGA−AA−3989−01A, spectrum: 140226
DCGEAAAQWLTSFLK, T6A
MVH=68.9511
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y3
y4
b5
y5
b6
b7
y6
y6−NH3
b8
y7
b9
y8
y8−NH3
y9
b10
y10
y10−NH3
b11
y11
b12−NH3
y12
y13
b13
b14

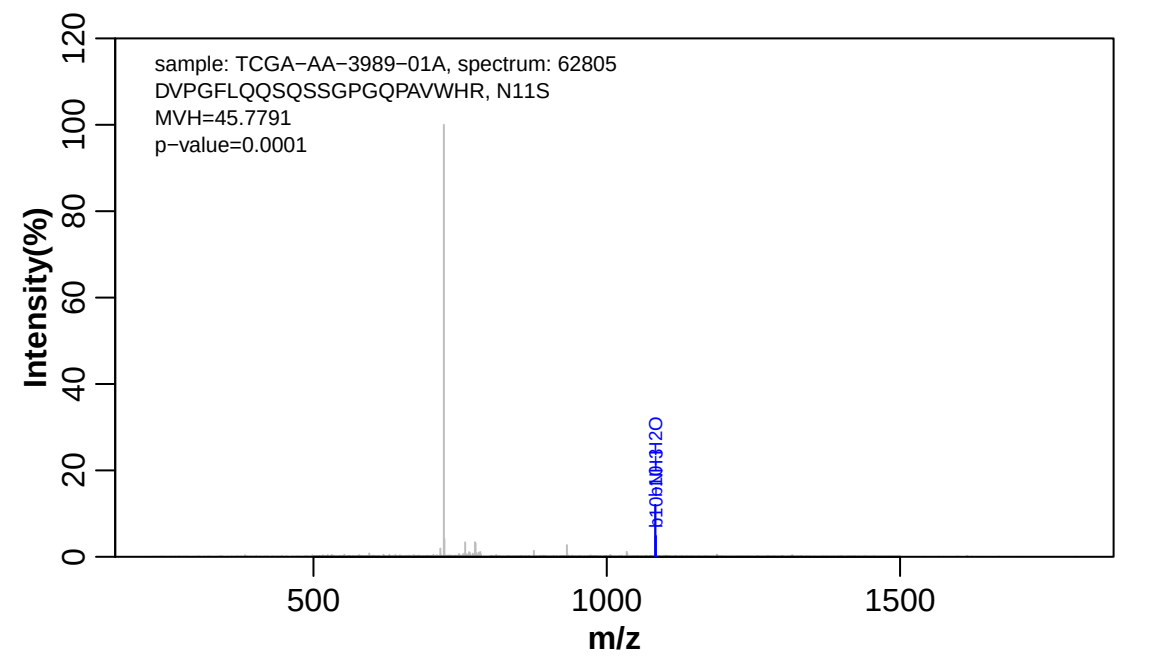

sample: TCGA−AA−3989−01A, spectrum: 17453
DFYVVEPLAFEGTPEQK, I4V
MVH=59.5472
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
b13
y4
b6
y8
b4
b5
y3−H2O
b3
y5−H2O
y6
y7
y8−H2O
b8−H2O
b8
y9
b9
b10
b11
b12
y13−H2O
y14
b15

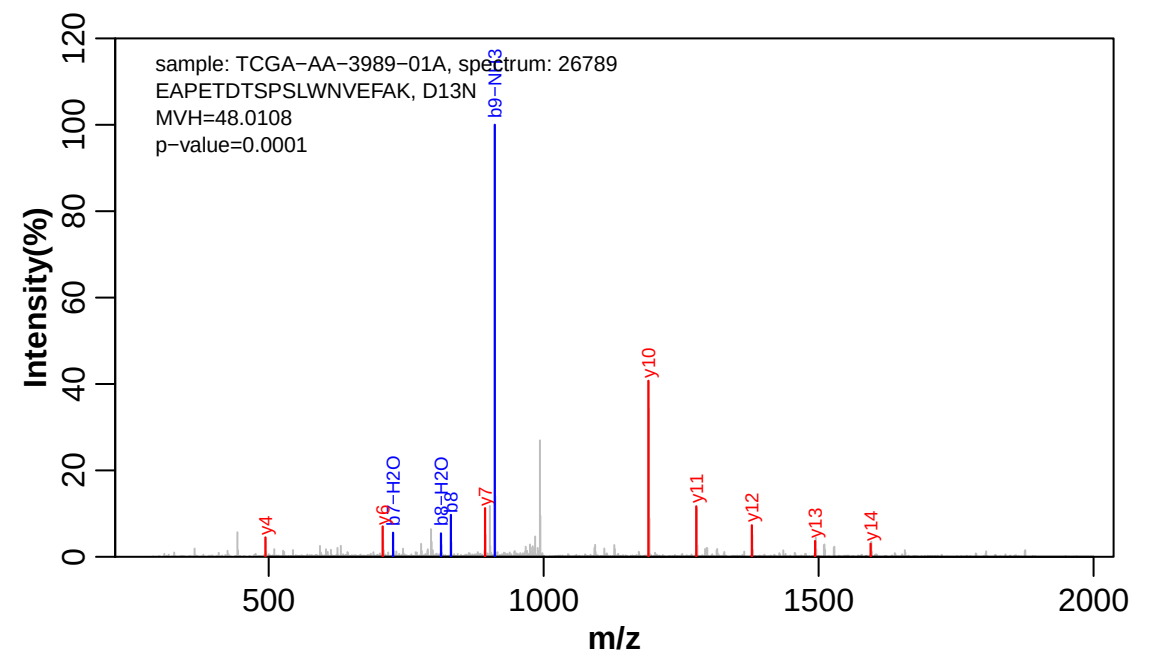

sample: TCGA−AA−3989−01A, spectrum: 126222
DGYGFLNR, N1D
MVH=42.0068
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

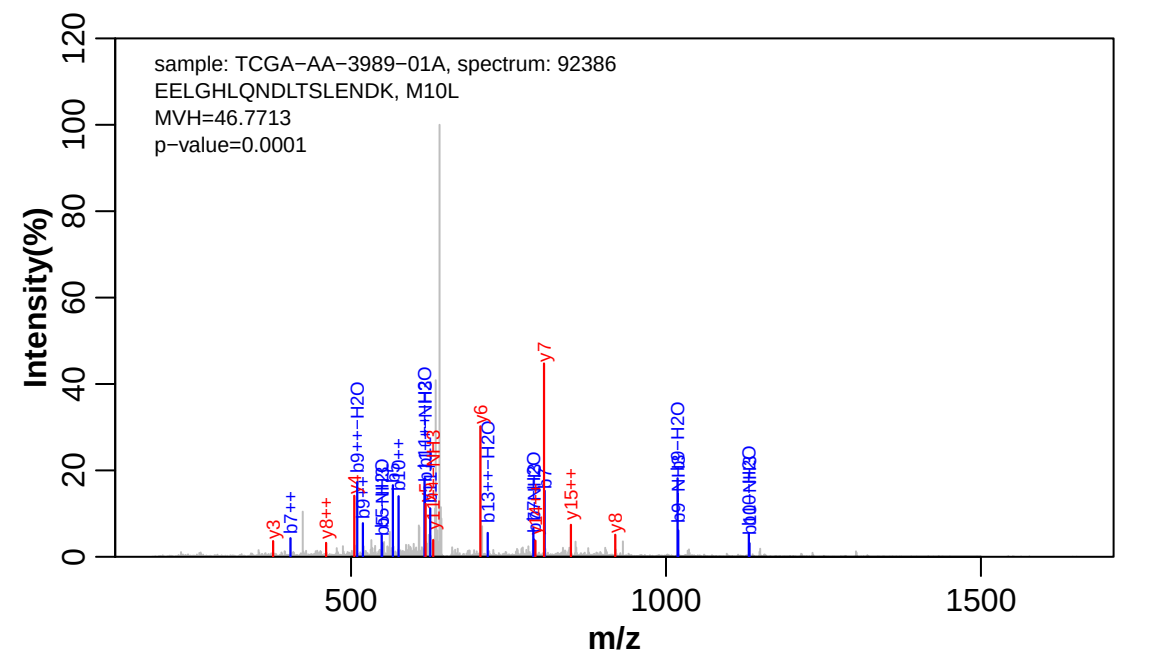

sample: TCGA−AA−3989−01A, spectrum: 36776
DMAGAQAAAVALNEEFLK, R18K
MVH=75.1467
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
y4
b6
y5
y6
b9
b10
y7
y8
b11−H2O
b12
y9
y10
y11
y12
b13
b14
y13
b15
b16
b17

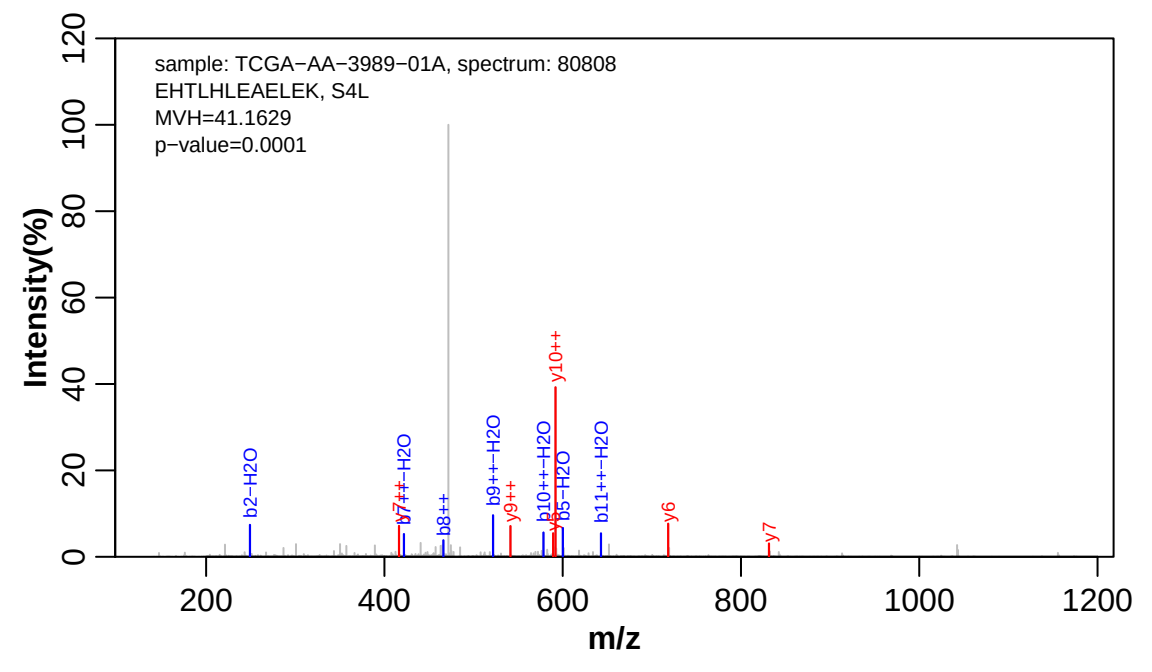

sample: TCGA−AA−3989−01A, spectrum: 31551
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=90.8591
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

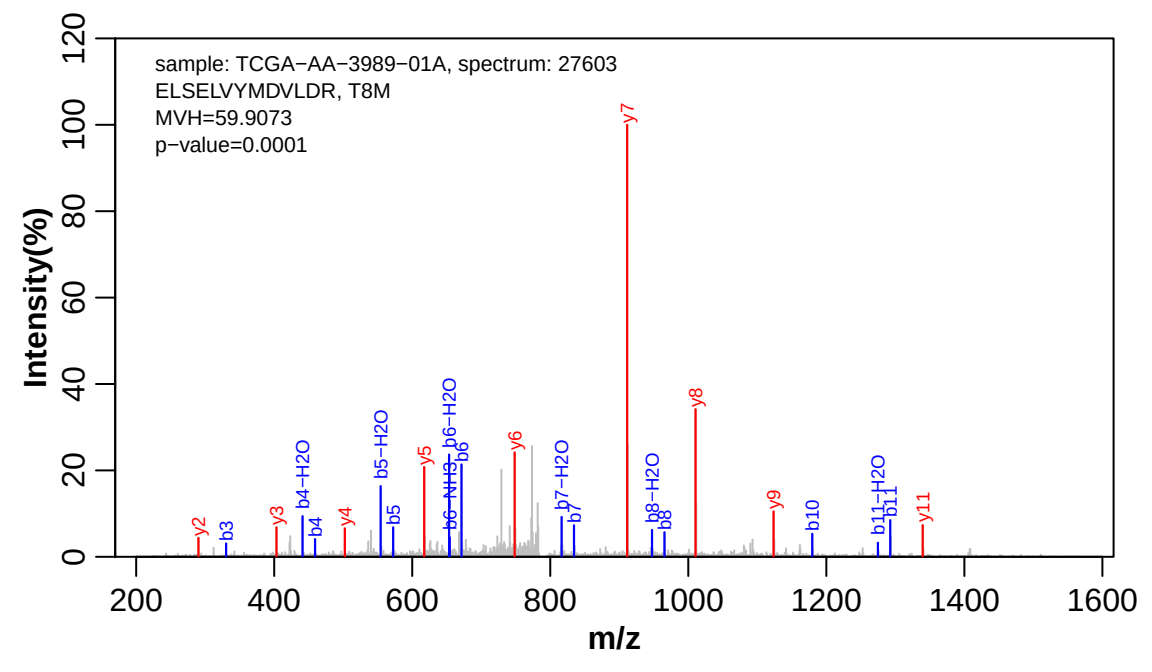

sample: TCGA−AA−3989−01A, spectrum: 32642
DTEEEDFHVDQATTVK, V12A
MVH=60.7312
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y4−H2O
b4
y5−H2O
y5
b5−H2O
b5
y6−H2O
y6
b6−H2O
b6
y7−H2O
y7
b7
y8−H2O
y8
y9
b8
b9
y10
b10
y11
y12
b11
b12
b13
b14
b15

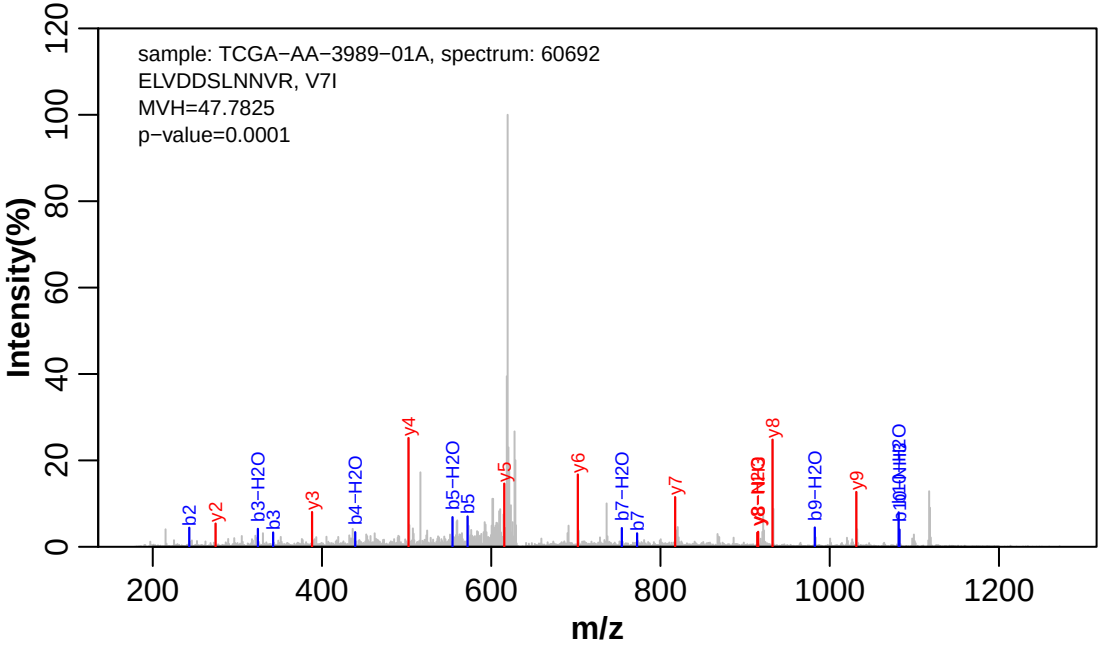

sample: TCGA−AA−3989−01A, spectrum: 62805
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=45.7791
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

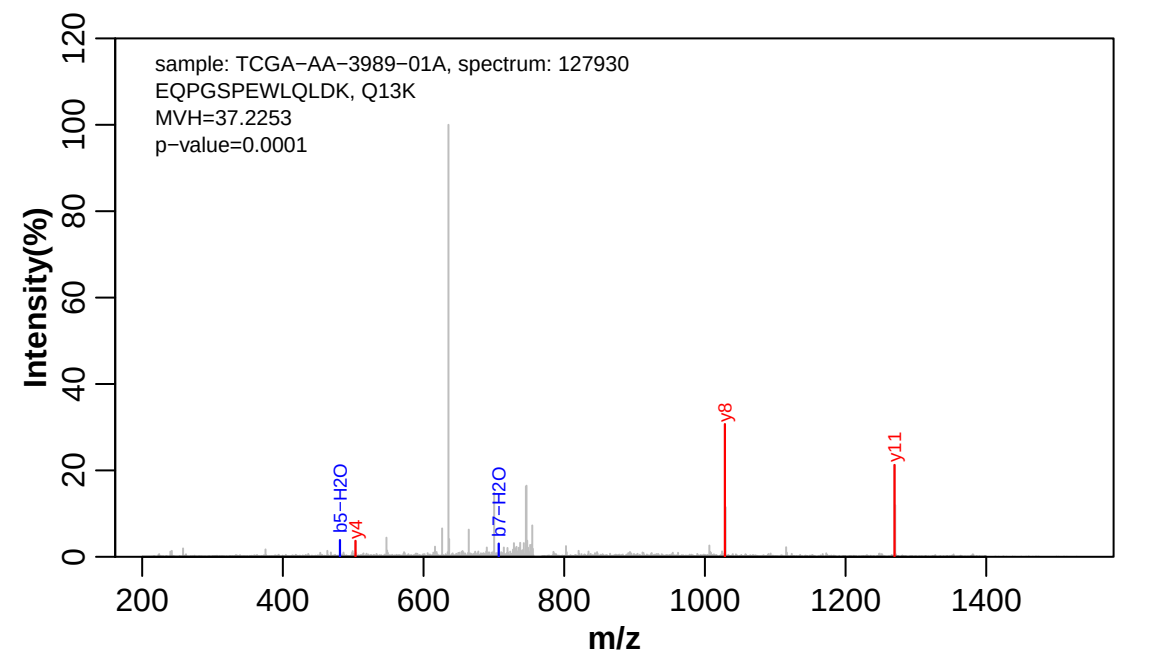

sample: TCGA−AA−3989−01A, spectrum: 26789
EAPETDTSPSLWNVEFAK, D13N
MVH=48.0108
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y6
b7−H2O
b8−H2O
b8
y7
b9−NH3
y10
y11
y12
y13
y14

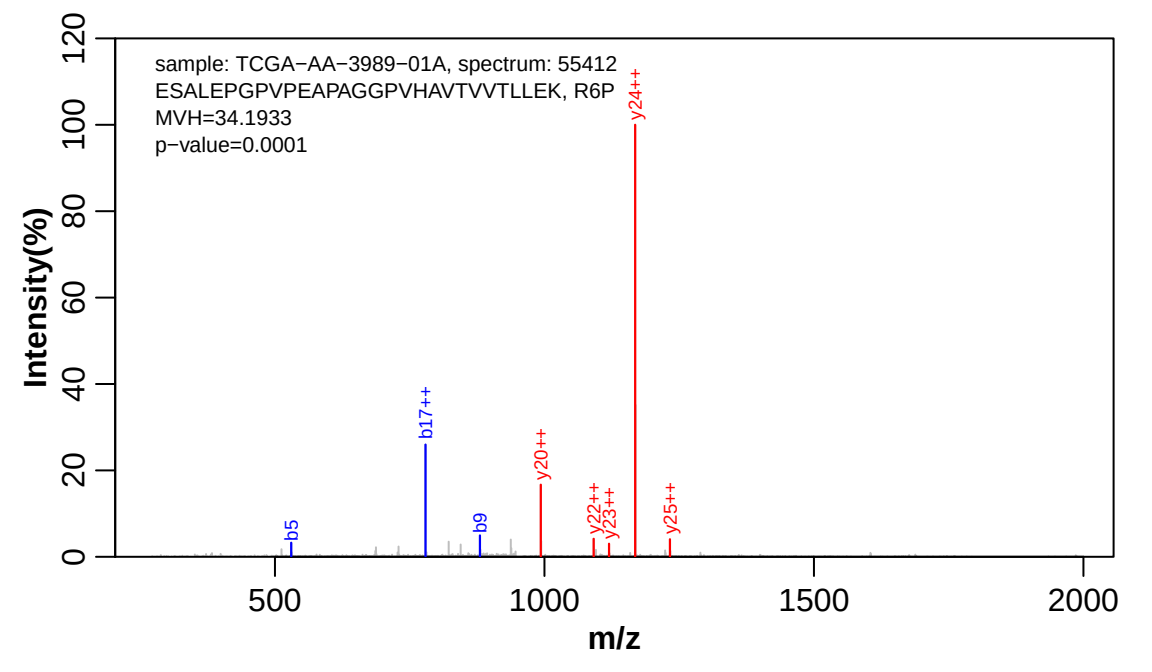

sample: TCGA−AA−3989−01A, spectrum: 92386
EELGHLQNDLTSLENDK, M10L
MVH=46.7713
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b7++
y8++
b9++−H2O
y4
b9++
b5−NH3
b5−H2O
b5++
b9++
y7
y6
b13++−H2O
b7
y15++
y8
b9−NH3−H2O
b10−NH3
b10−H2O

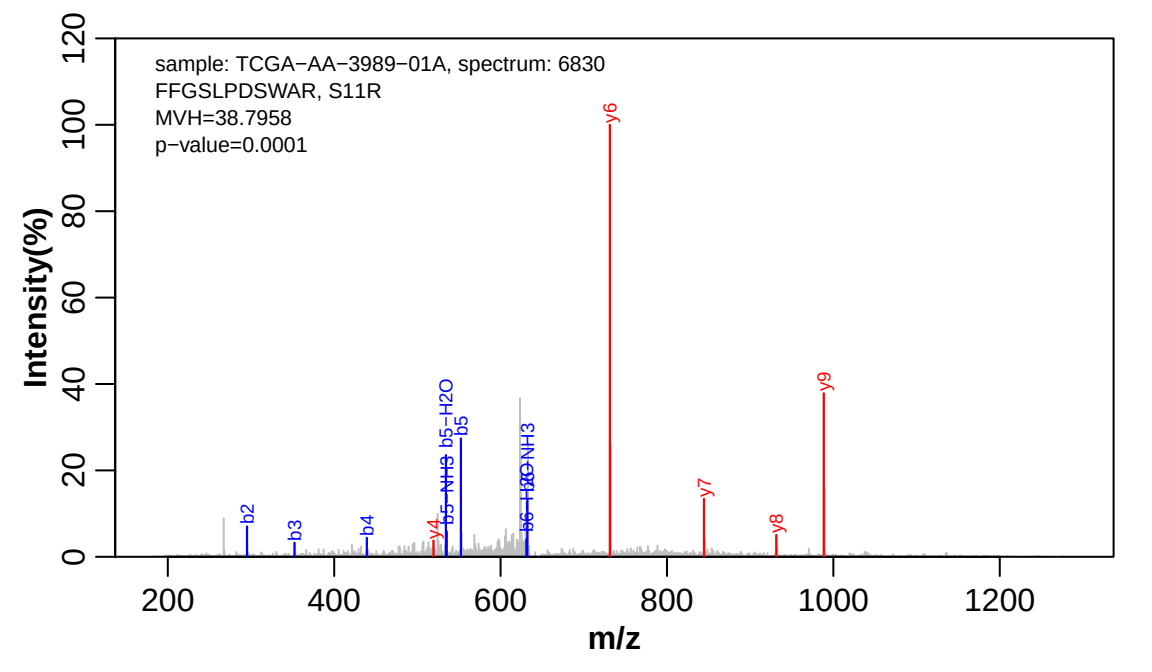

sample: TCGA−AA−3989−01A, spectrum: 80808
EHTLHLEAELEK, S4L
MVH=41.1629
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−H2O
b7++−H2O
b7++
b8++
b9++−H2O
y9++
b10++−H2O
y10++
b5−H2O
b11++−H2O
y6
y7

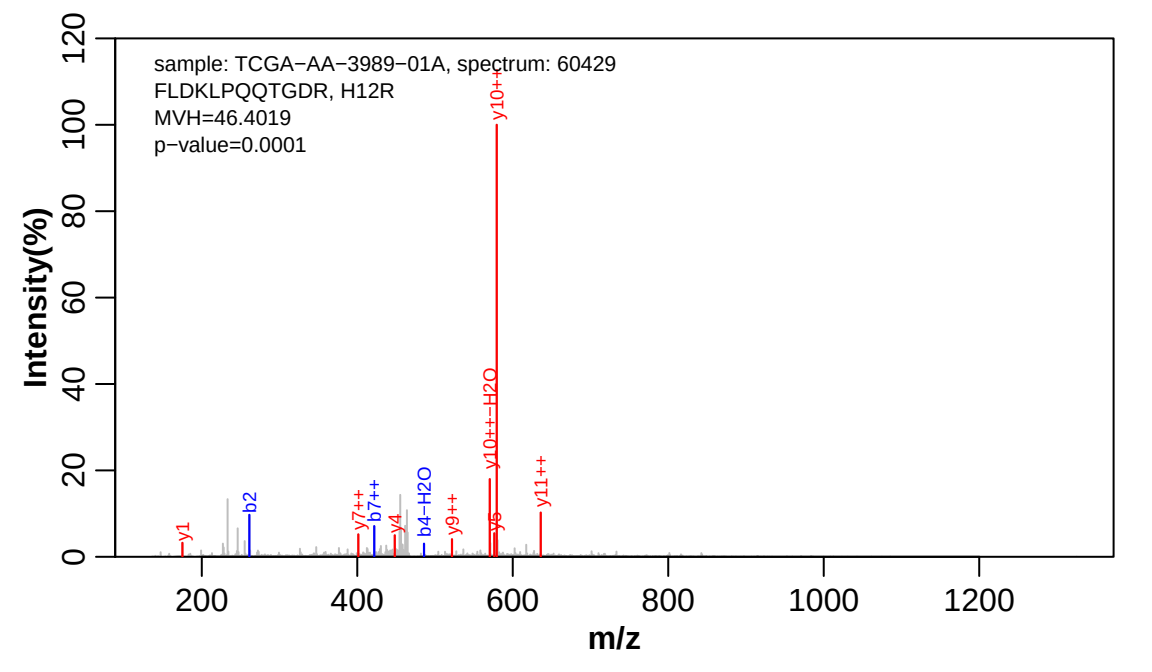

sample: TCGA−AA−3989−01A, spectrum: 27603
ELSELVYMDVLDR, T8M
MVH=59.9073
p−value=0.0001
Intensity(%)
m/z
y7
y8
y6
y5
y9
y11
y4
y3
y2
b10
b5−H2O
b6−H2O
b4−H2O
b7−H2O
b8−H2O
b11−H2O
b6−NH3
b6
b5
b4
b3
b7
b8
b11

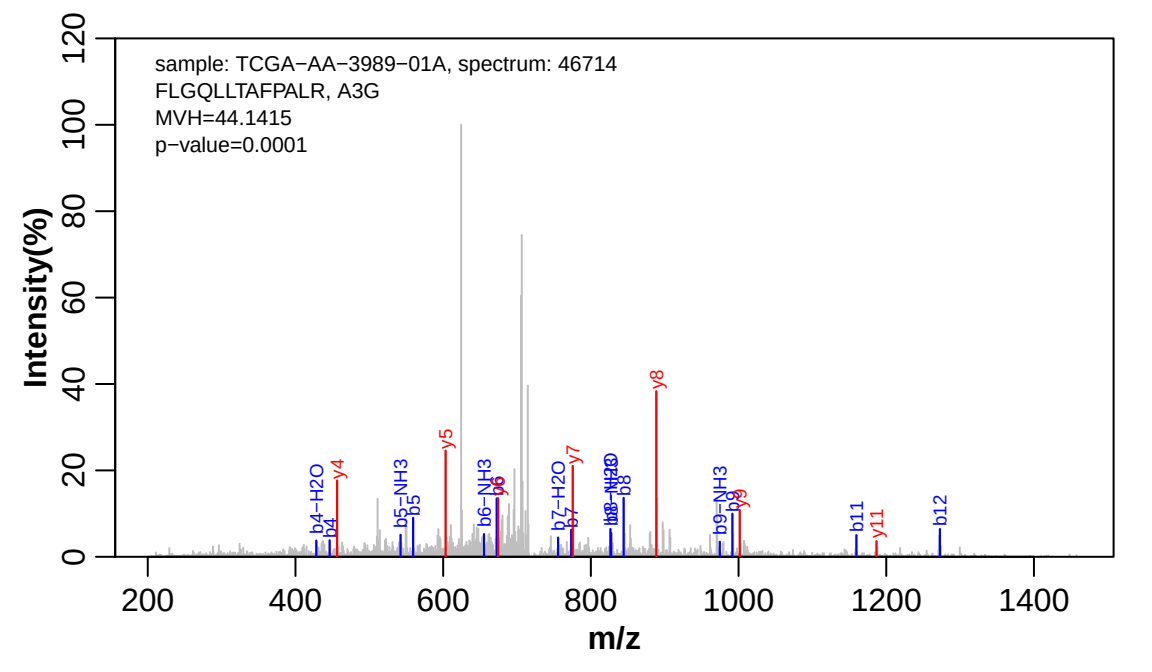

sample: TCGA−AA−3989−01A, spectrum: 60692
ELVDDSLNNVR, V7I
MVH=47.7825
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y2
b3−H2O
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8−NH3
y8
b9−H2O
y9

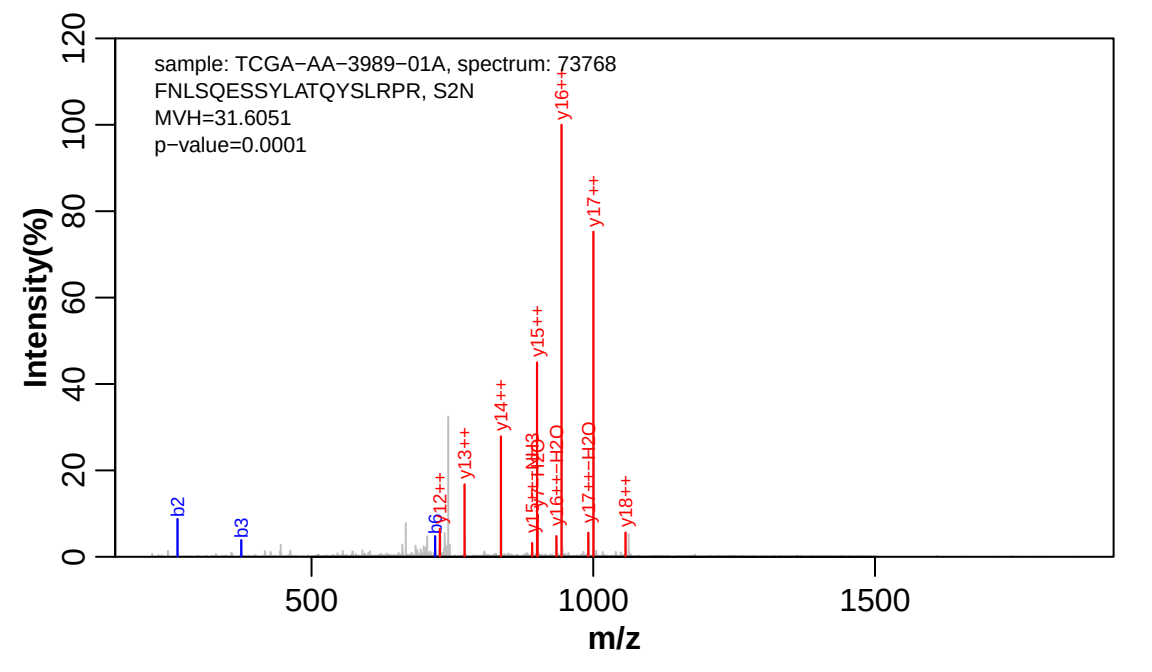

sample: TCGA−AA−3989−01A, spectrum: 127930
EQPGSPEWLQLDK, Q13K
MVH=37.2253
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
y8
y11

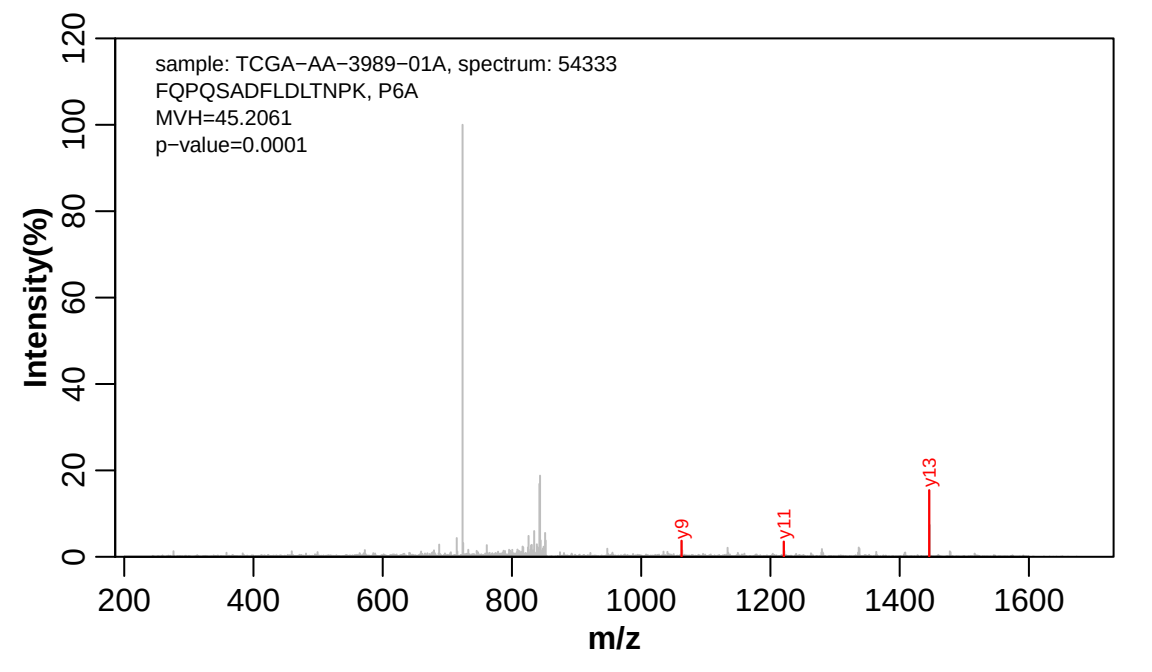

sample: TCGA−AA−3989−01A, spectrum: 55412
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=34.1933
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b5
b17++
b9
y20++
y22++
y23++
y24++
y25++

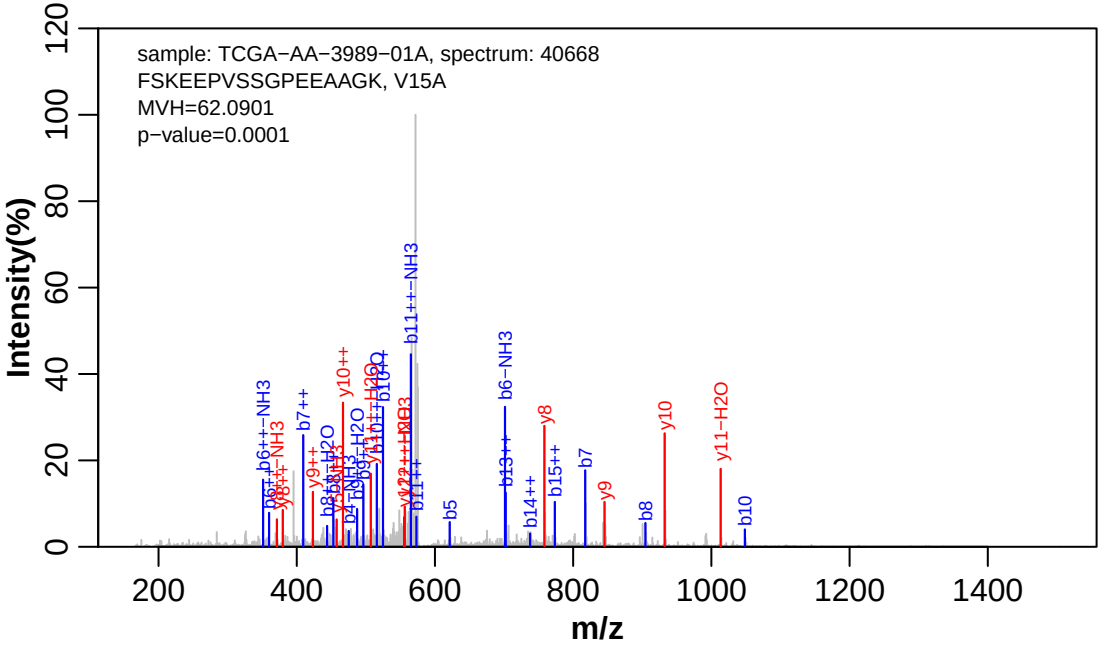

sample: TCGA−AA−3989−01A, spectrum: 6830
FFGSLPDSWAR, S11R
MVH=38.7958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b3
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O−NH3

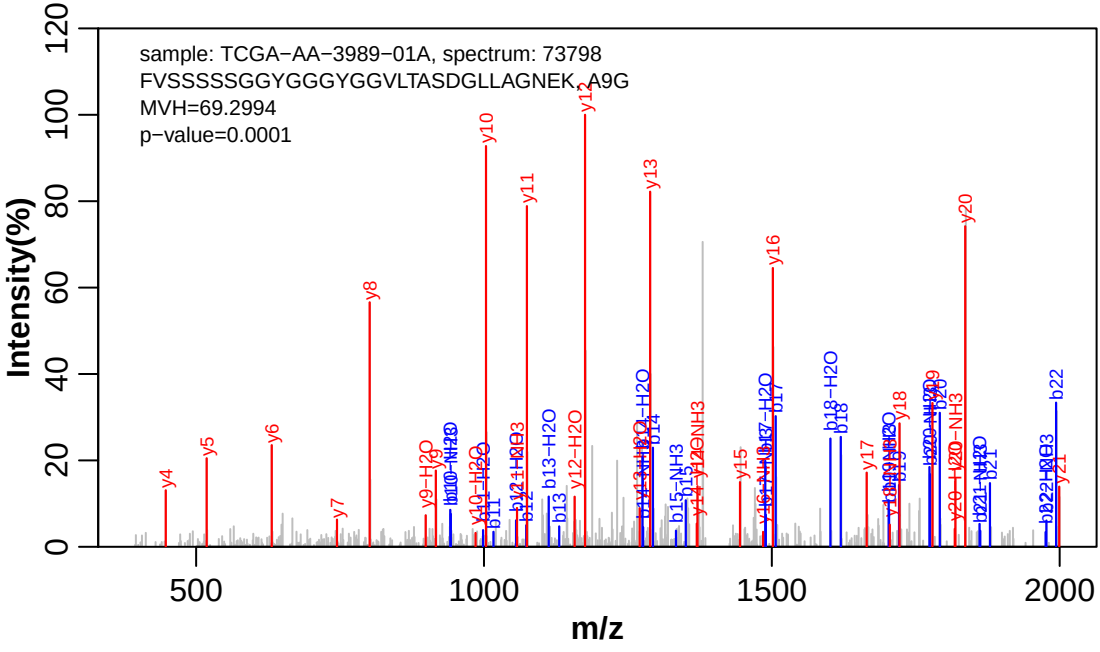

sample: TCGA−AA−3989−01A, spectrum: 60429
FLDKLPQQTGDR, H12R
MVH=46.4019
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
y7++
b7++
y4
b4−H2O
y9++
y6
b2
y1

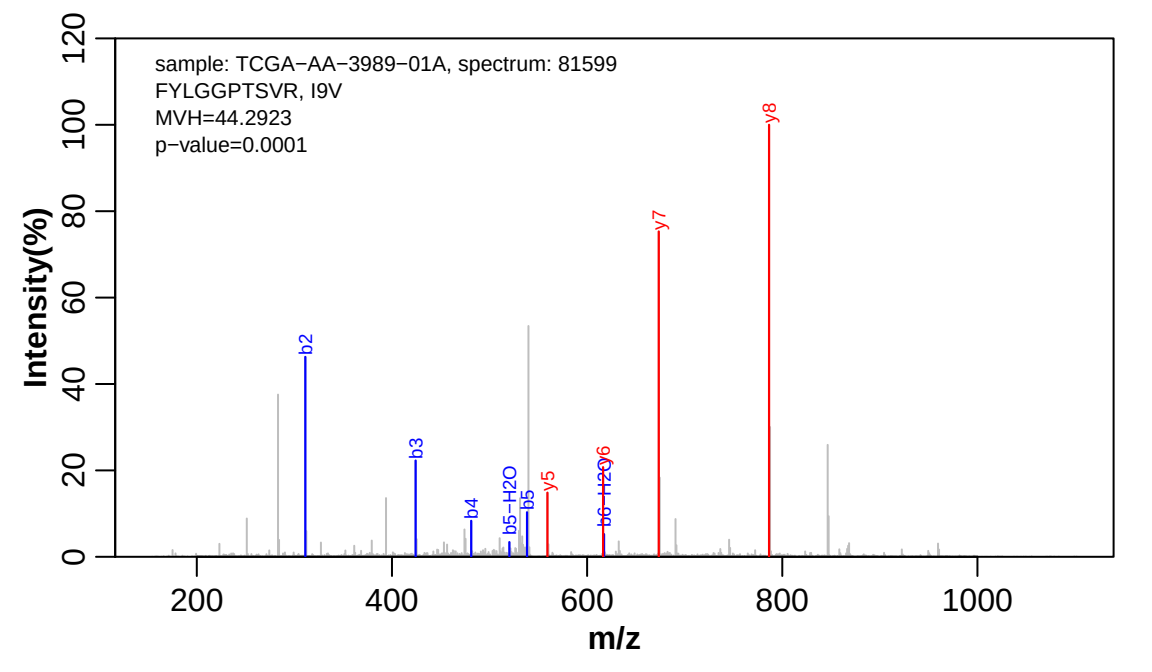

sample: TCGA−AA−3989−01A, spectrum: 46714
FLGQLLTAFPALR, A3G
MVH=44.1415
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
b4
y4
b5−NH3
b5
y5
b6−NH3
b6
y6
b7−H2O
b7
y7
b8
y8
b9−NH3
b9
y9
b11
y11
b12

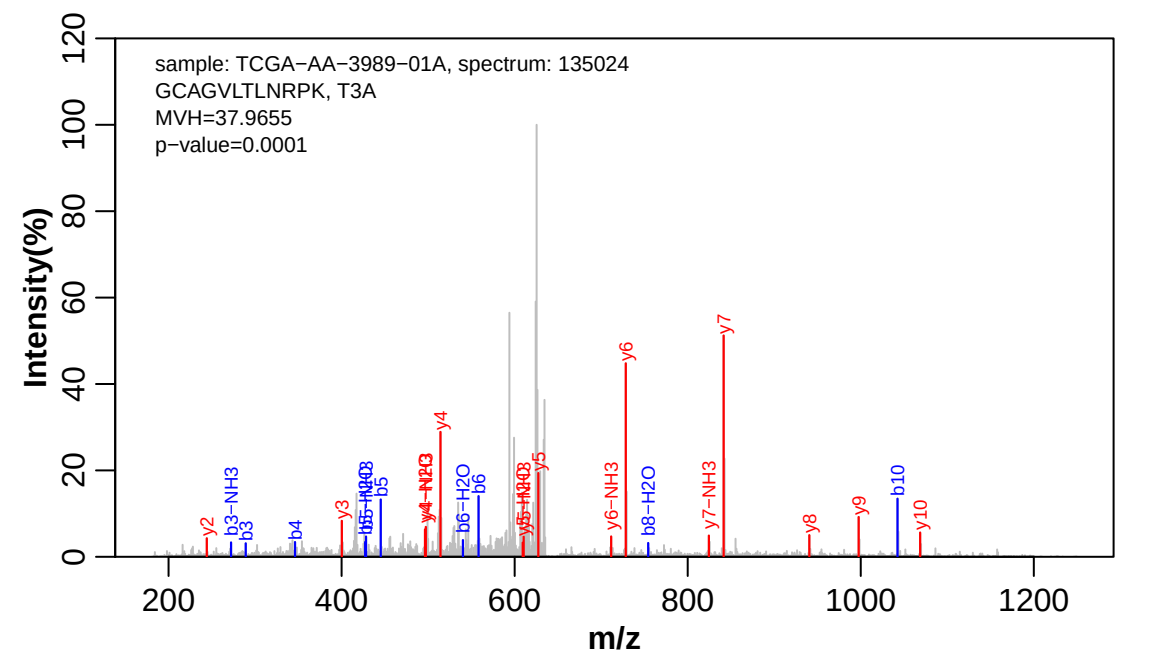

sample: TCGA−AA−3989−01A, spectrum: 73768
FNLSQESSYLATQYSLRPR, S2N
MVH=31.6051
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b6
y12++
y13++
y14++
y15++
y15++−NH3
y16++−H2O
y16++
y17++−H2O
y17++
y18++

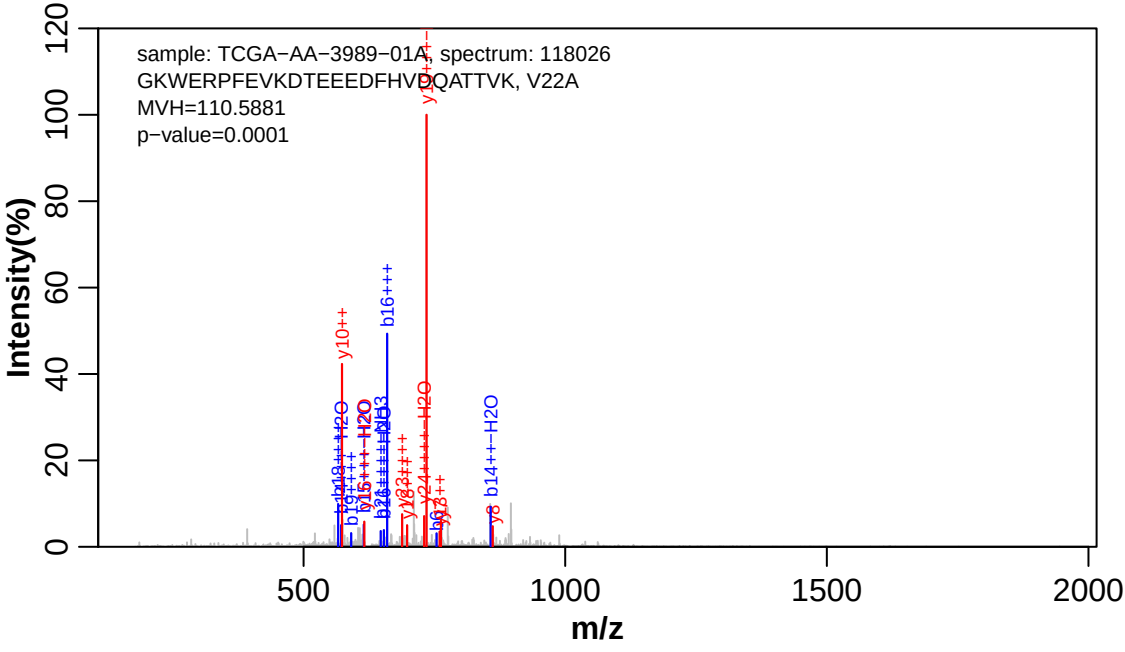

sample: TCGA−AA−3989−01A, spectrum: 54333
FQPQSADFLDLTNPK, P6A
MVH=45.2061
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
y9
y11
y13

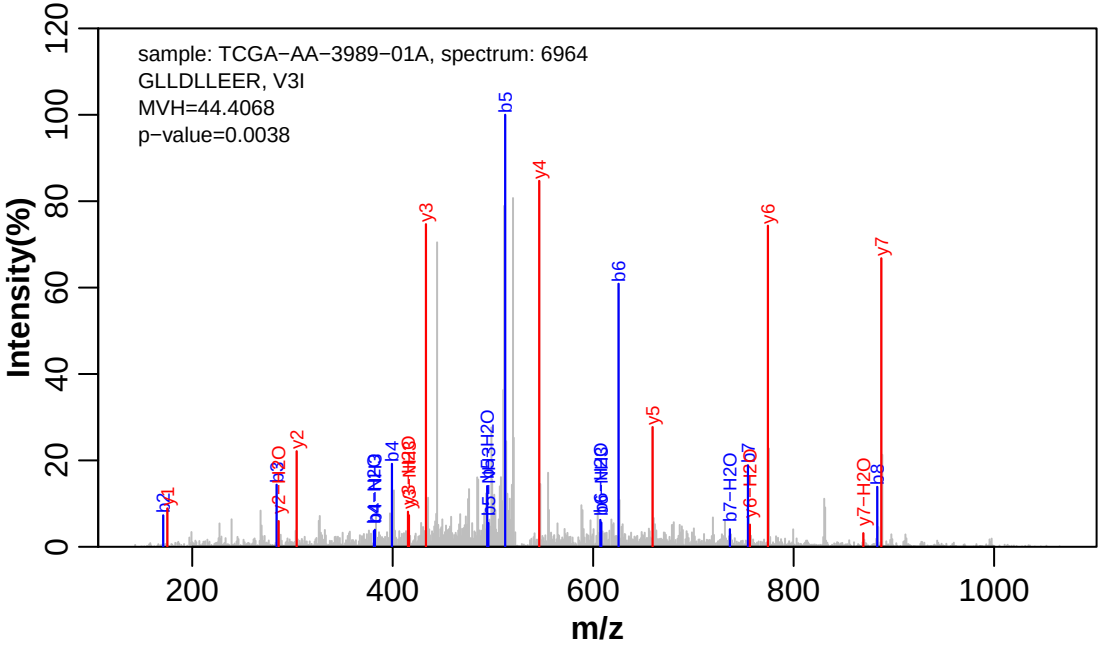

sample: TCGA−AA−3989−01A, spectrum: 40668
FSKEEPVSSGPEEAAGK, V15A
MVH=62.0901
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b6++−NH3
b7++
y9++
b11++−NH3
y10++
b6−NH3
y8
b13++
b15++
b7
y10
y11−H2O
y9
b8
b10
b5
b14++

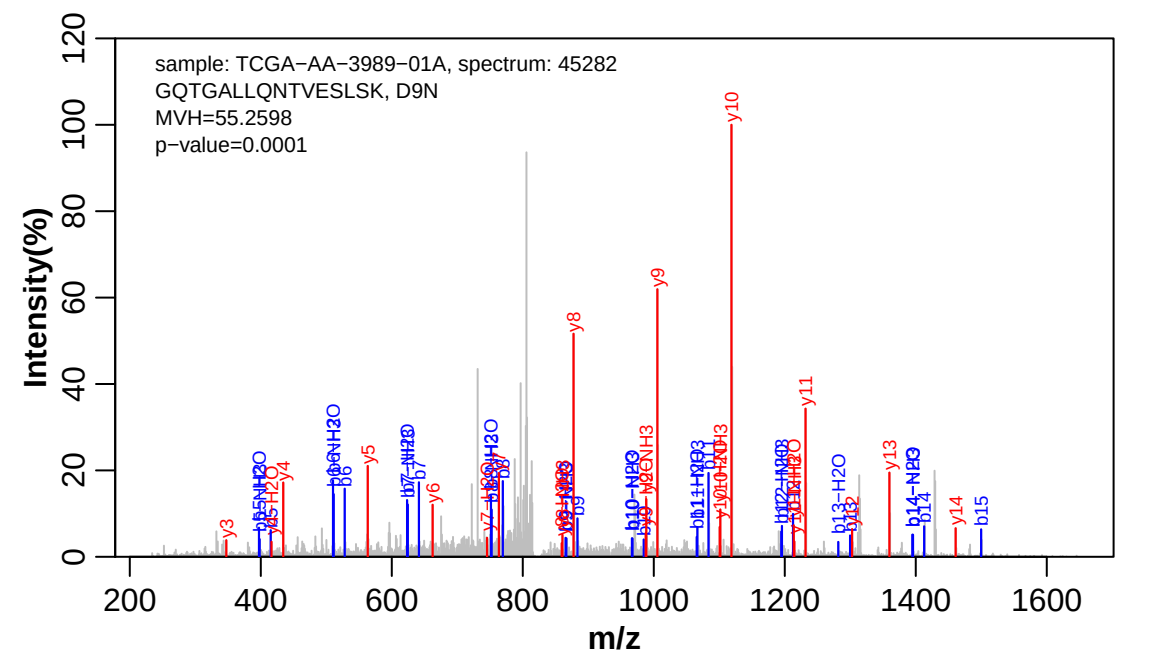

sample: TCGA−AA−3989−01A, spectrum: 73798
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=69.2994
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y7
y8
y9−H2O
y9
y10−H2O
y10
y11
y12−H2O
y12
y13
b13−H2O
b13
b15−NH3
y15
y16
b17
b18−H2O
b18
y17
y18
y20−NH3
y20
b22
y21

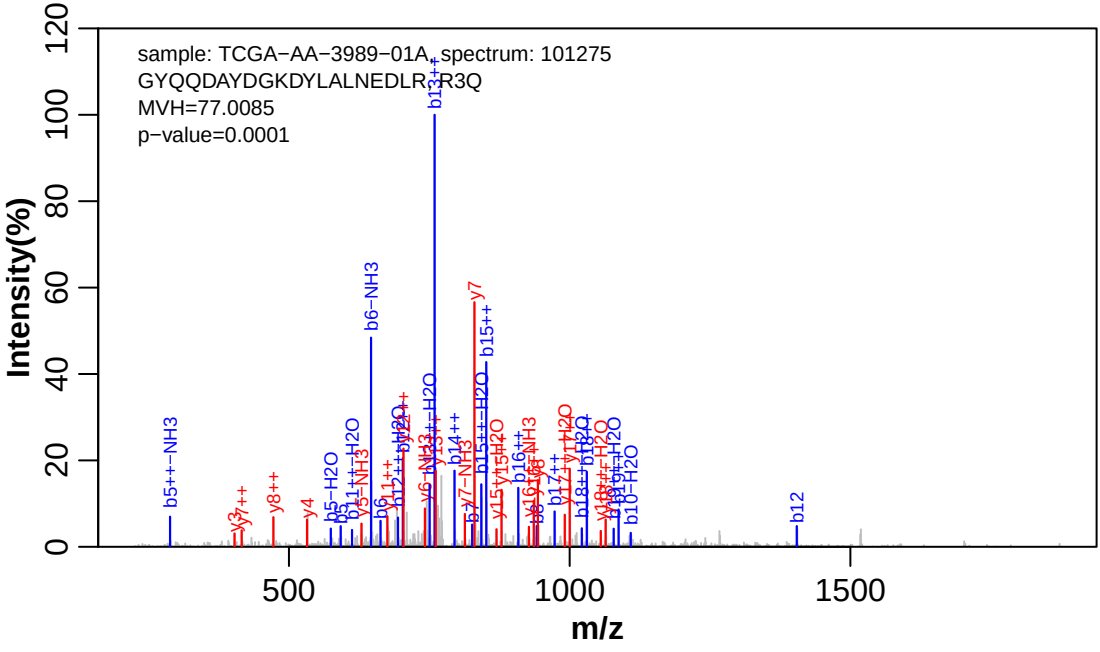

sample: TCGA−AA−3989−01A, spectrum: 81599
FYLGGPTSVR, I9V
MVH=44.2923
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5−H2O
b5
y5
b6−H2O
y6
y7
y8

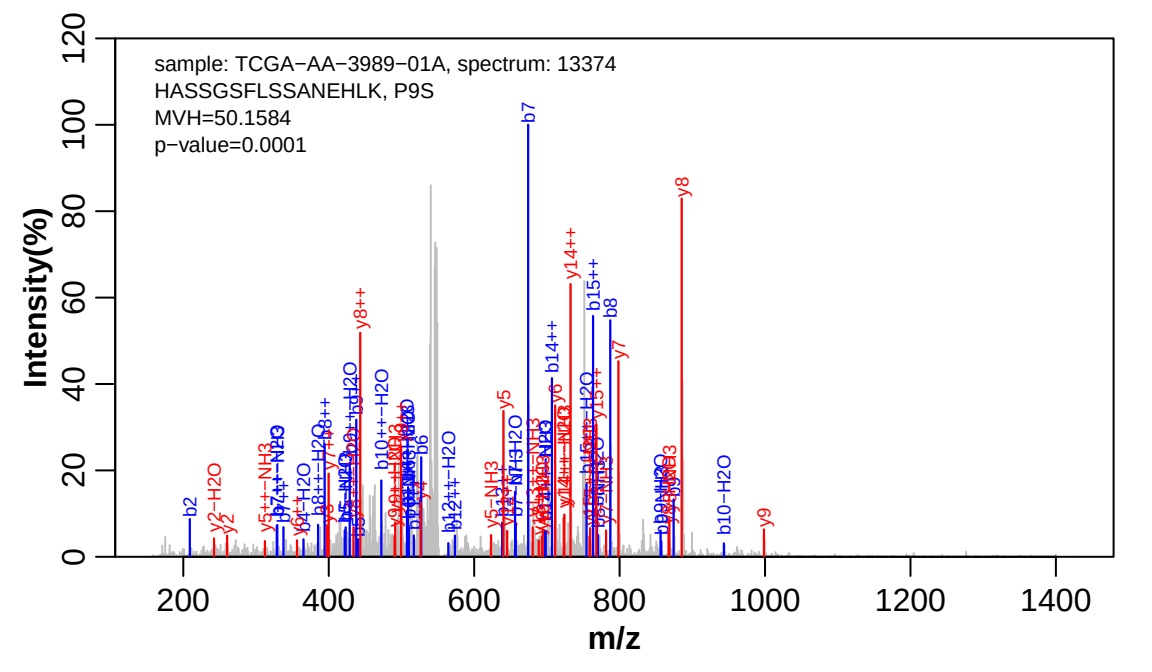

sample: TCGA−AA−3989−01A, spectrum: 135024
GCAGVLTLNRPK, T3A
MVH=37.9655
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−NH3
b3
b4
y3
b5
y4
b6−H2O
b6
y5
y6−NH3
b8−H2O
y6
y7−NH3
y7
y8
y9
b10
y10

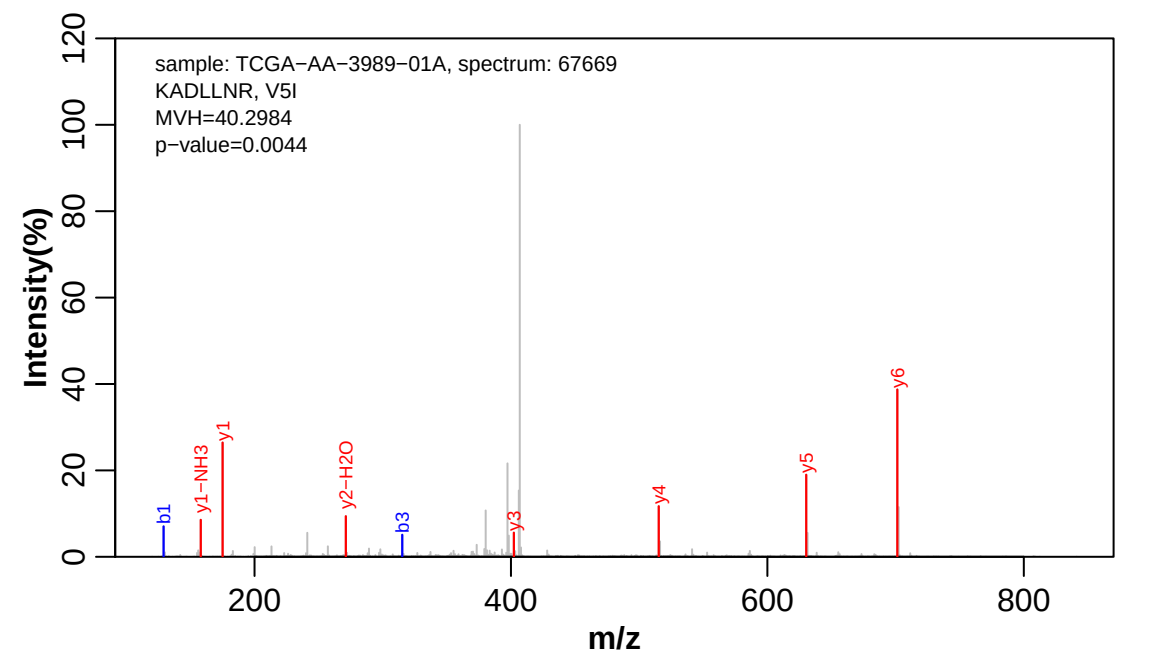

sample: TCGA−AA−3989−01A, spectrum: 118026
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=110.5881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b16+++
y24++++−H2O
b14++−H2O
y8
y23++

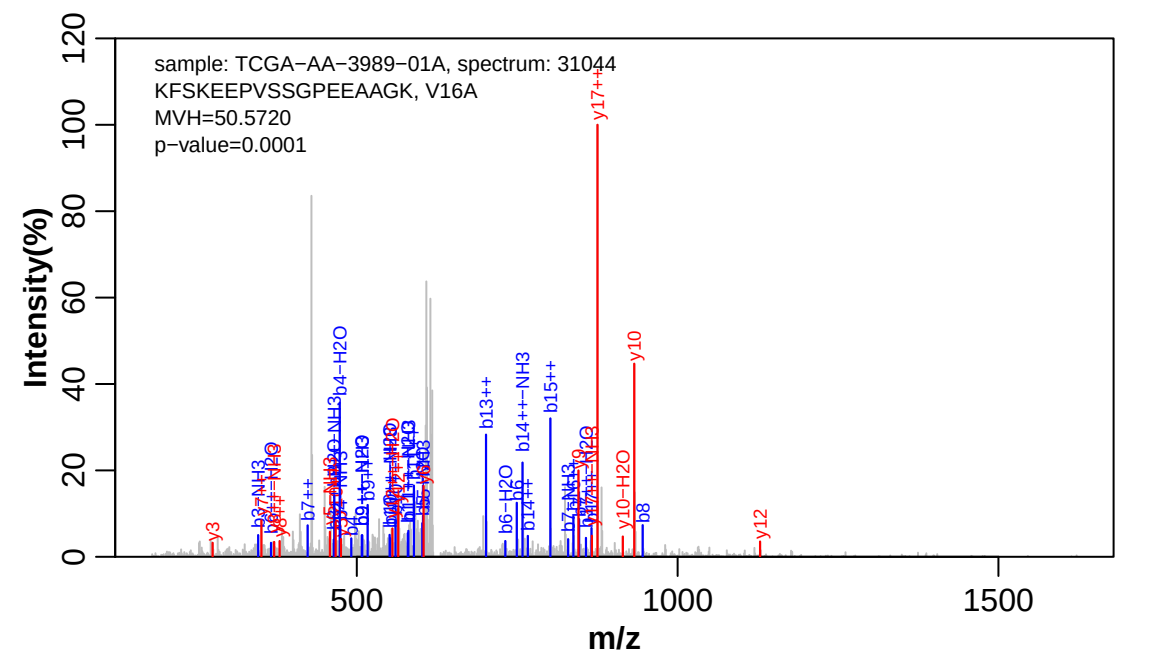

sample: TCGA−AA−3989−01A, spectrum: 6964
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b1
y2
y2−H2O
b4
b4−NH3
y3
y3−NH3
b5
b5−NH3
b5−H2O
y4
b6
b6−NH3
y5
b7−H2O
y6
y6−H2O
y7
y7−H2O
b8

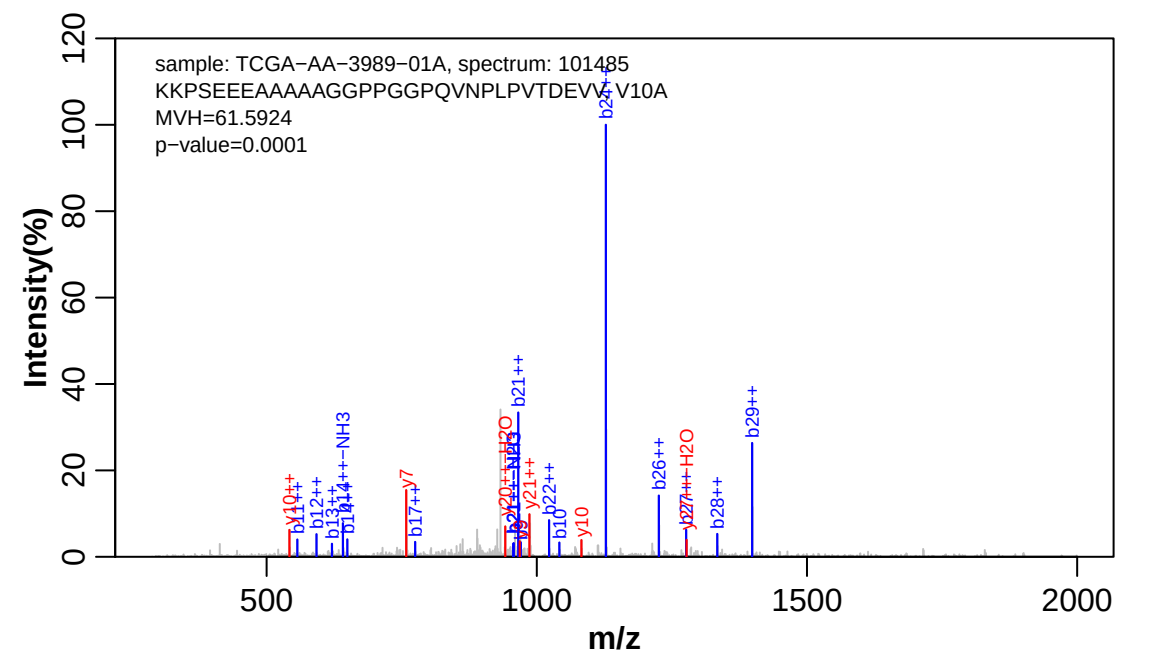

sample: TCGA−AA−3989−01A, spectrum: 45282
GQTGALLQNTVESLSK, D9N
MVH=55.2598
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y5
y6
y3
y4

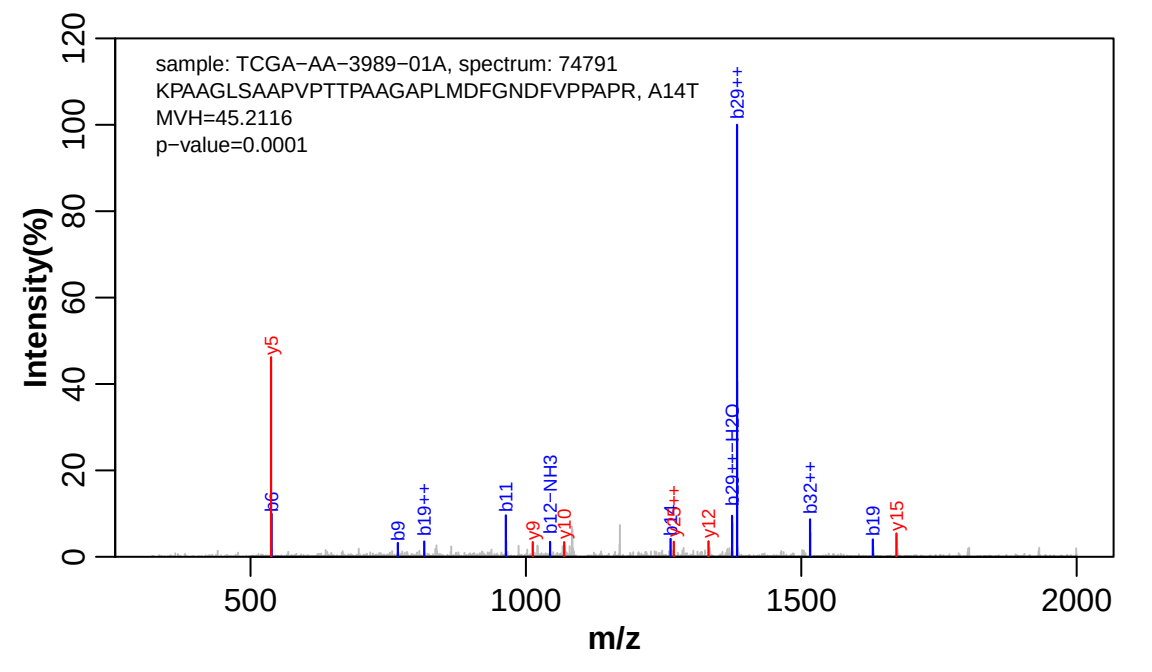

sample: TCGA−AA−3989−01A, spectrum: 101275
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=77.0085
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
b6−NH3
y7
b15++
b5++−NH3
y8++
y4
b12

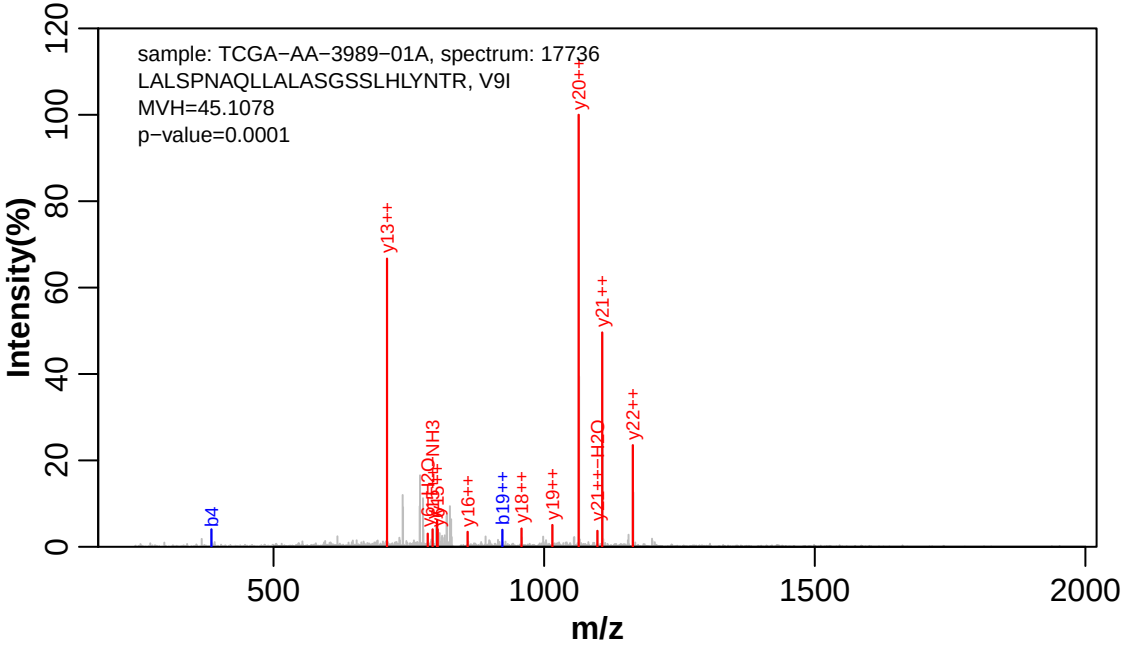

sample: TCGA−AA−3989−01A, spectrum: 13374
HASSGSFLSSANEHLK, P9S
MVH=50.1584
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7
y8
y14++
b15++
b8
y8++
b14++
y7
y6
y5
b2
y2−H2O
y2
b10−H2O
y9

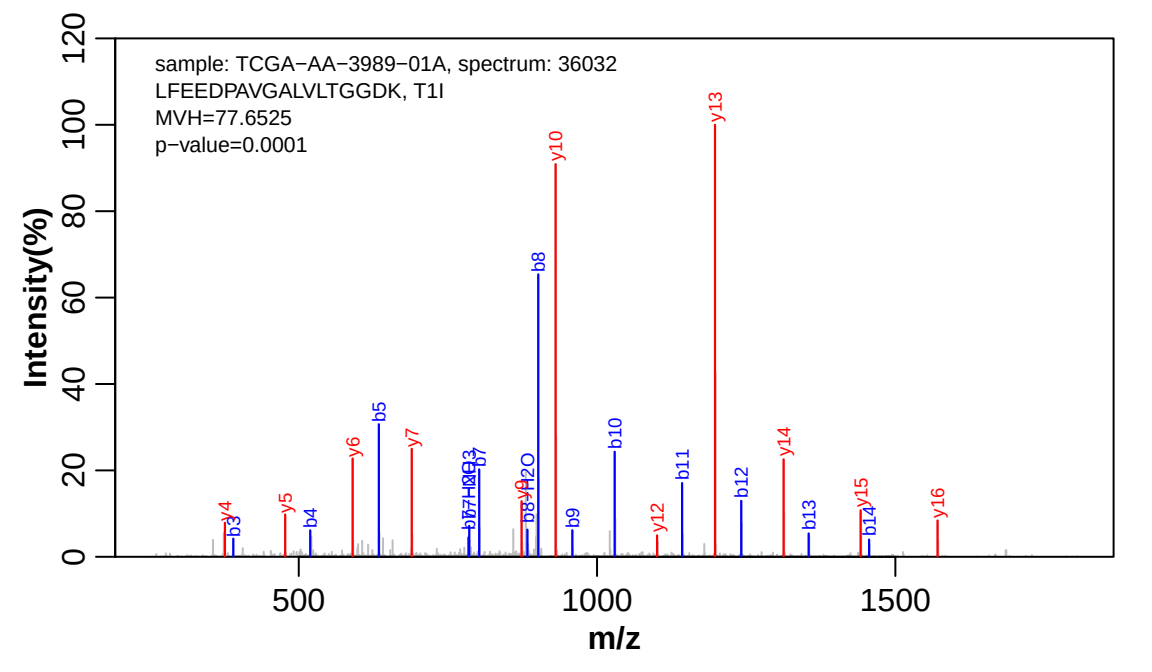

sample: TCGA−AA−3989−01A, spectrum: 67669
KADLLNR, V5I
MVH=40.2984
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1−NH3
y1
y2−H2O
b3
y3
y4
y5
y6

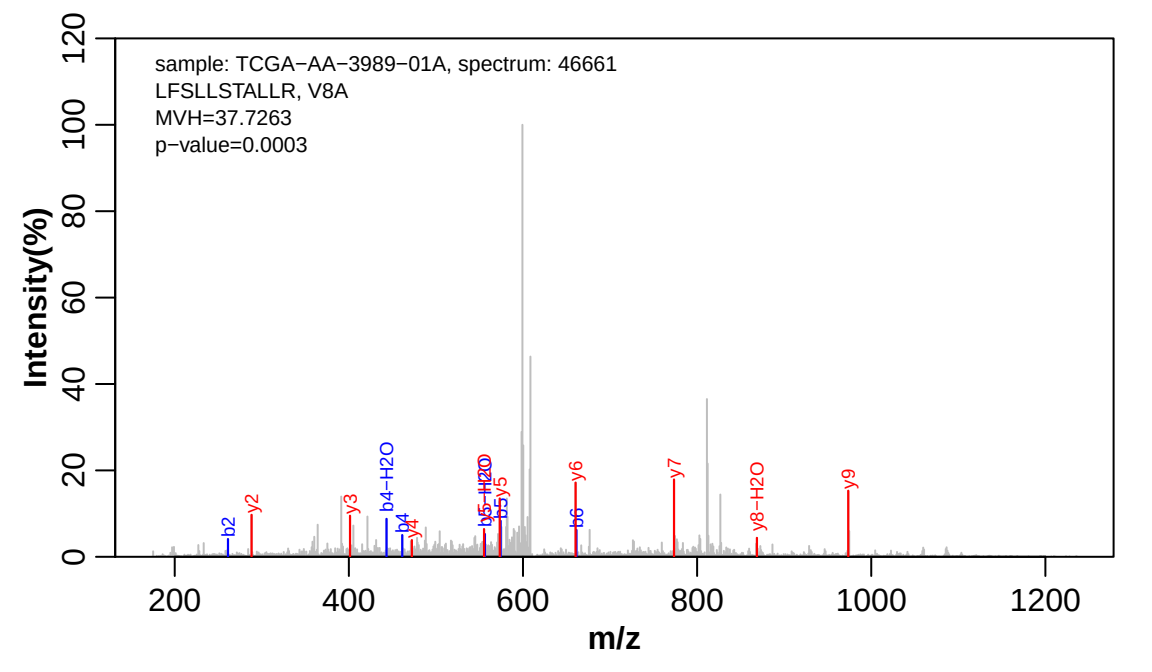

sample: TCGA−AA−3989−01A, spectrum: 31044
KFSKEEPVSSGPEEAAGK, V16A
MVH=50.5720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y10
y10−H2O
y12
y3
b8
b13++
b14++−NH3
b15++
b4−H2O
b6−H2O
b14++
b7++

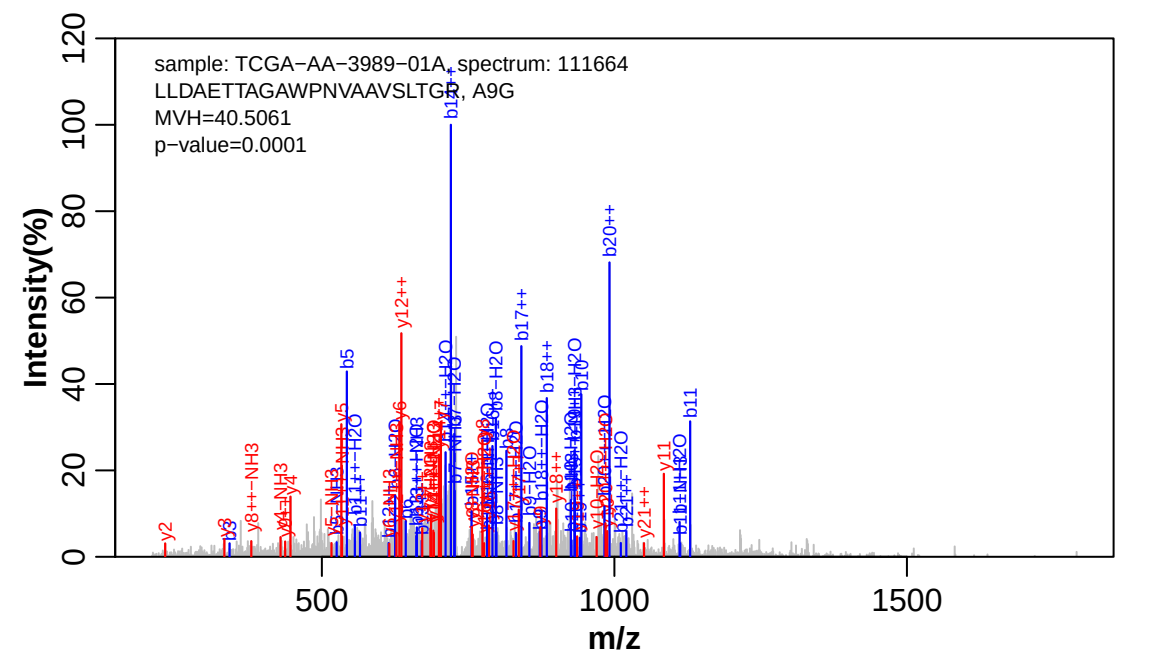

sample: TCGA−AA−3989−01A, spectrum: 101485
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=61.5924
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b29++
b26++
y20++−H2O
y20++−NH3
y21++
b22++
b10
y10
y27++−H2O
b28++
b11++
y10++
b12++
b13++
b14++−NH3
y7
b17++

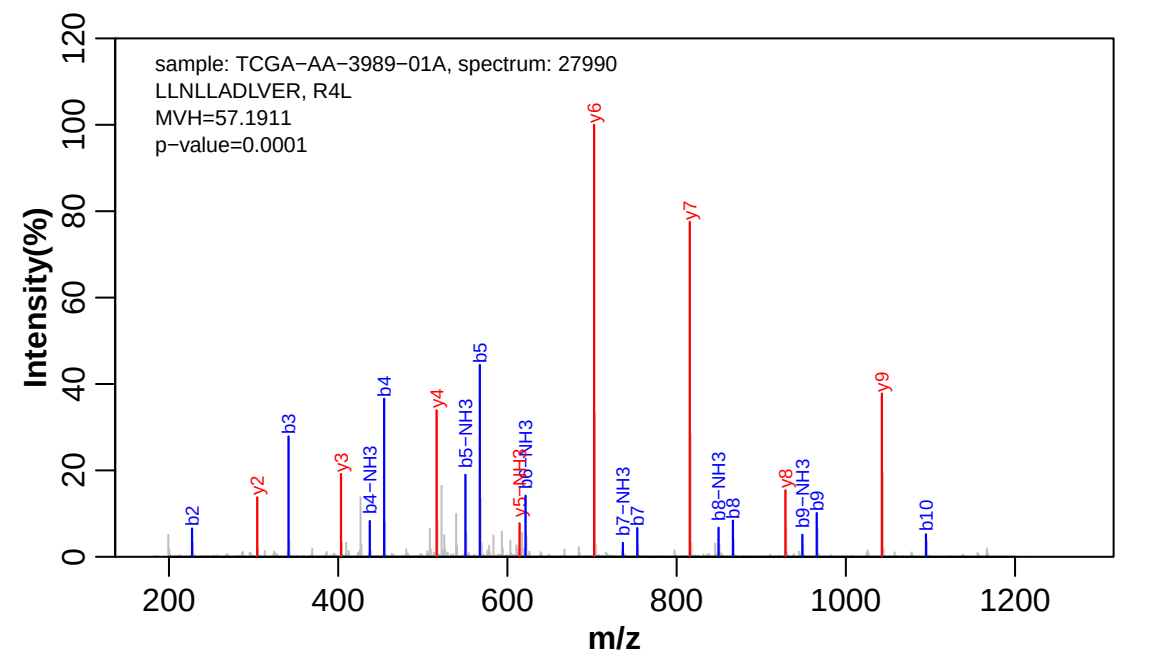

sample: TCGA−AA−3989−01A, spectrum: 74791
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=45.2116
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
b6
b9
b19++
b11
y9
b12−NH3
y10
y14
y13++
y12
b29++−H2O
b29++
b32++
b19
y15

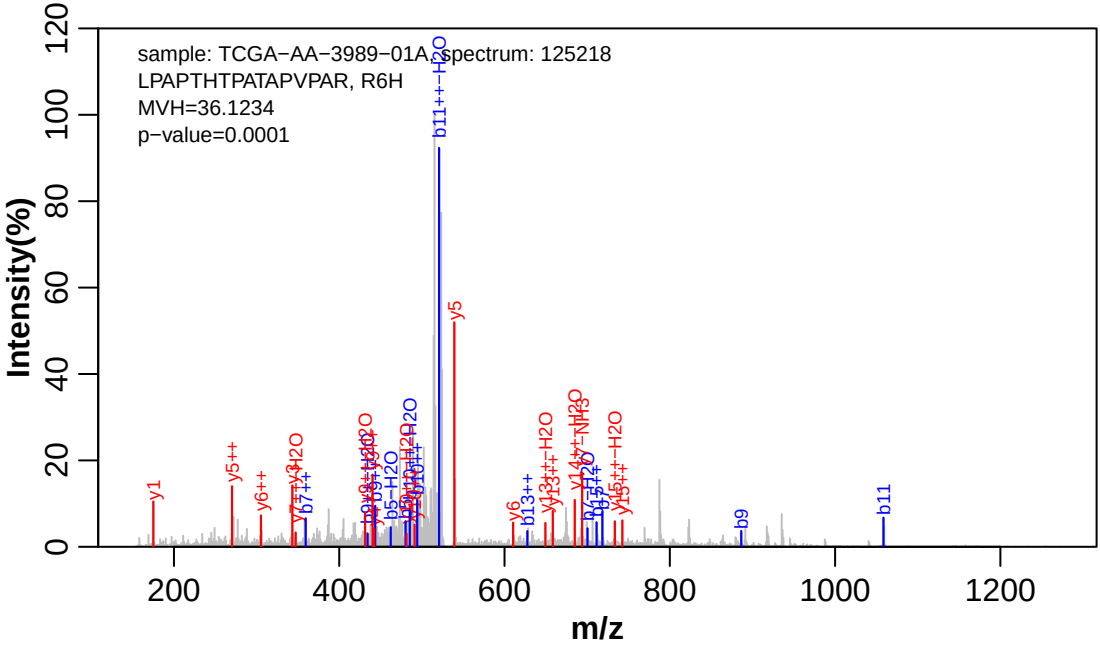

sample: TCGA−AA−3989−01A, spectrum: 17736
LALSPNAQLLALASGSSLHLYNTR, V9I
MVH=45.1078
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y13++
y20++
y21++
y22++
y21++−H2O
y19++
y18++
b19++
y16++

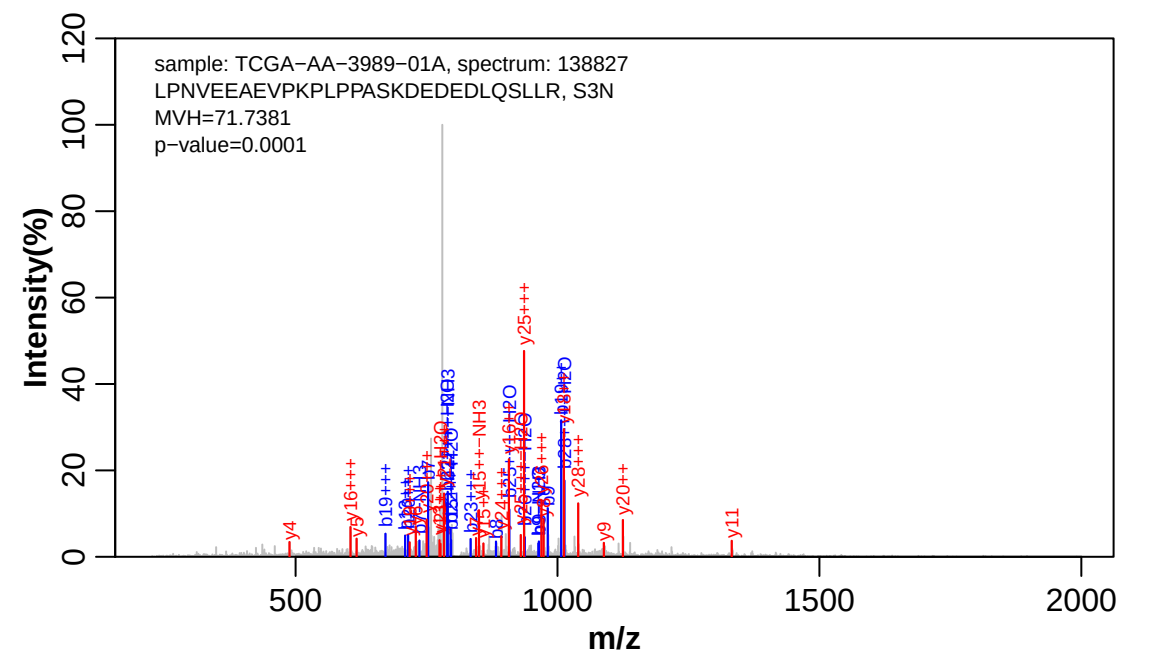

sample: TCGA−AA−3989−01A, spectrum: 36032
LFEEDPAVGALVLTGGDK, T1I
MVH=77.6525
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y6
y7
b10
b11
y14
b12
y15
y16
b13
b14
y12
b9
y5
b4
y4
b3

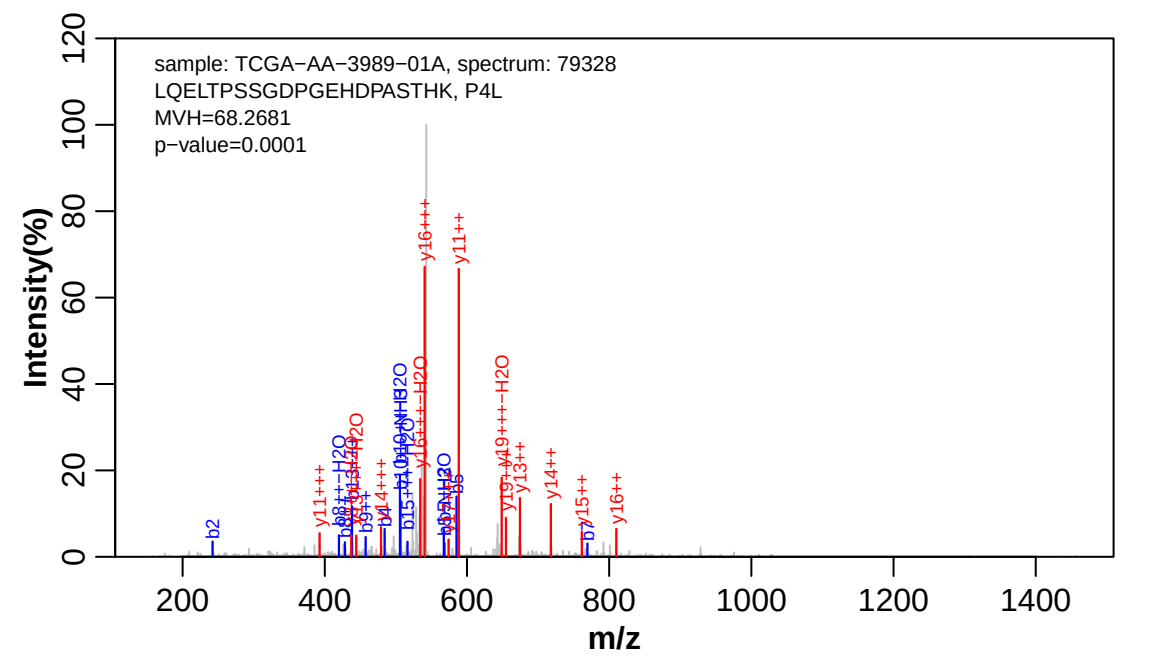

sample: TCGA−AA−3989−01A, spectrum: 46661
LFSLLSTALLR, V8A
MVH=37.7263
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6
y6
y7
y8−H2O
y9

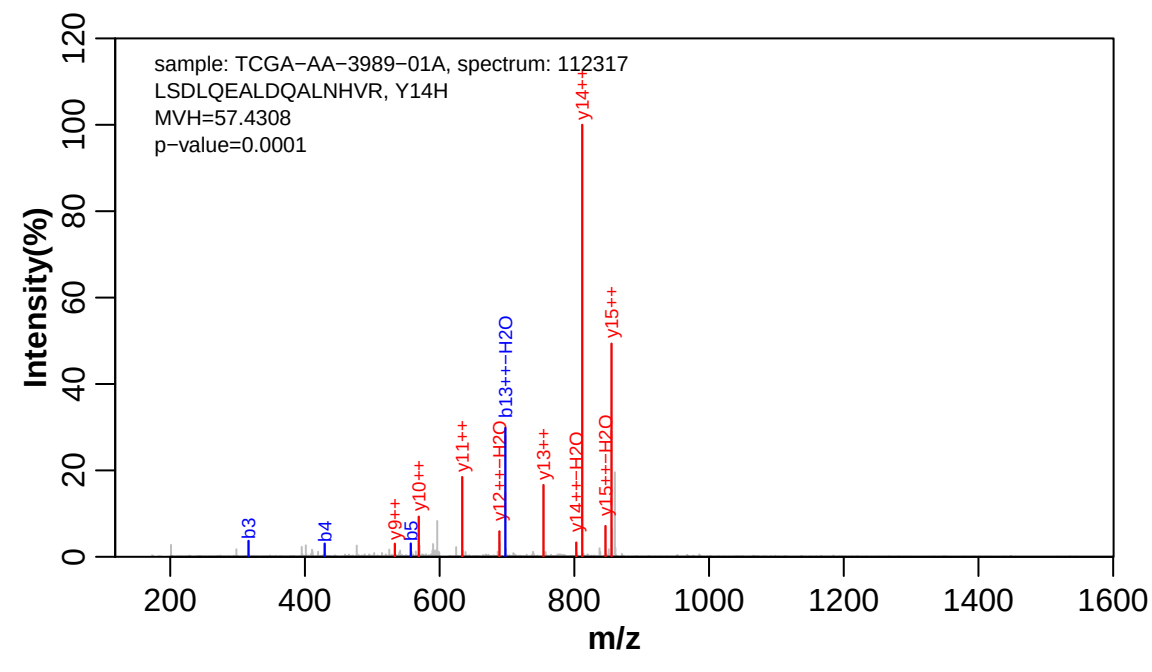

sample: TCGA−AA−3989−01A, spectrum: 111664
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=40.5061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b12++
b20++
y12++
b17++
b18++
b5
b11
y11
y21++
y2
y8++−NH3
y4
y5−NH3
b11++−H2O
b21++−H2O
b8−H2O
b17−H2O

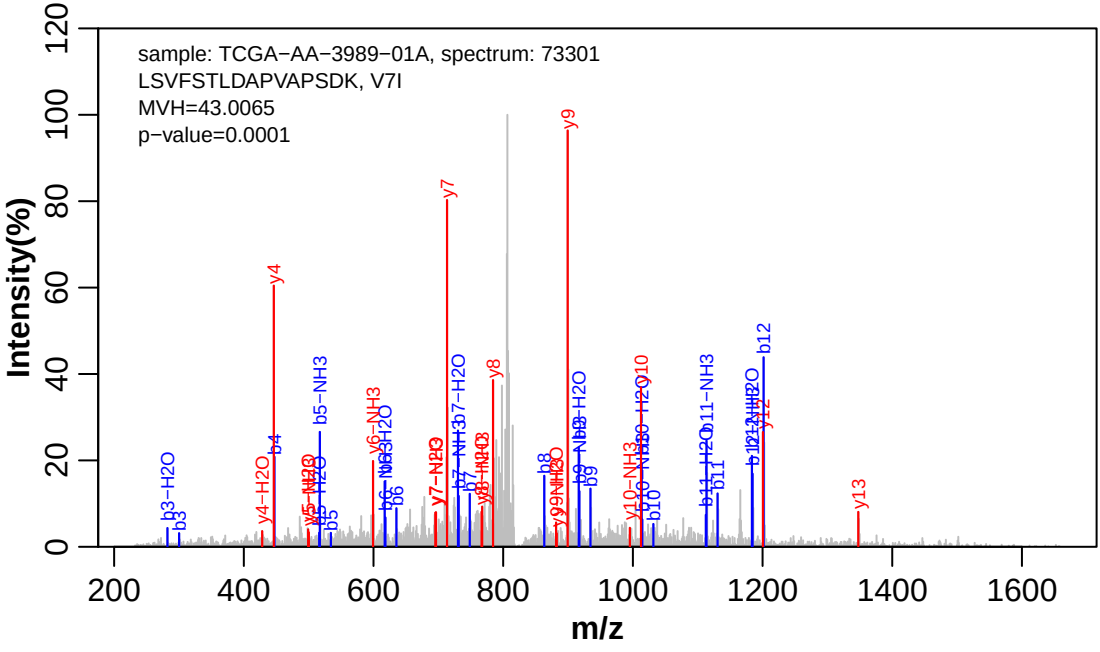

sample: TCGA−AA−3989−01A, spectrum: 27990
LLNLLADLVER, R4L
MVH=57.1911
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y8
y2
y3
b3
b4
b5
b5−NH3
b4−NH3
b2
b7−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

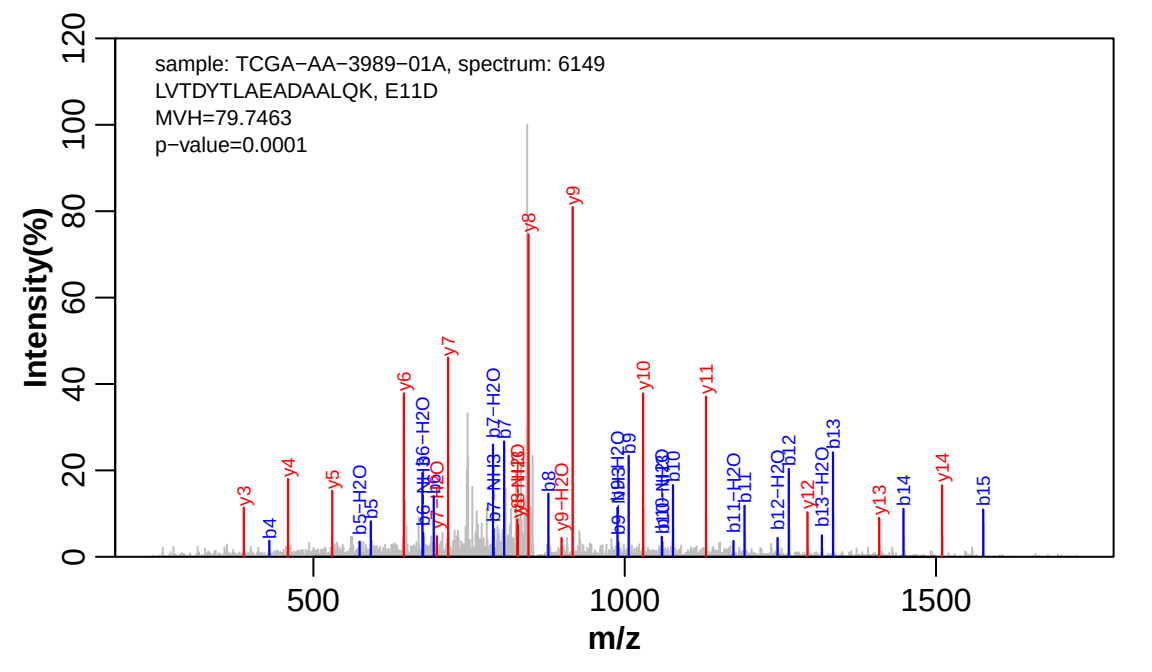

sample: TCGA−AA−3989−01A, spectrum: 125218
LPAPTHTPATAPVPAR, R6H
MVH=36.1234
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y5++
y6++
b7++
b5−H2O
b11++−H2O
y5
y6
b13++
b9
b11

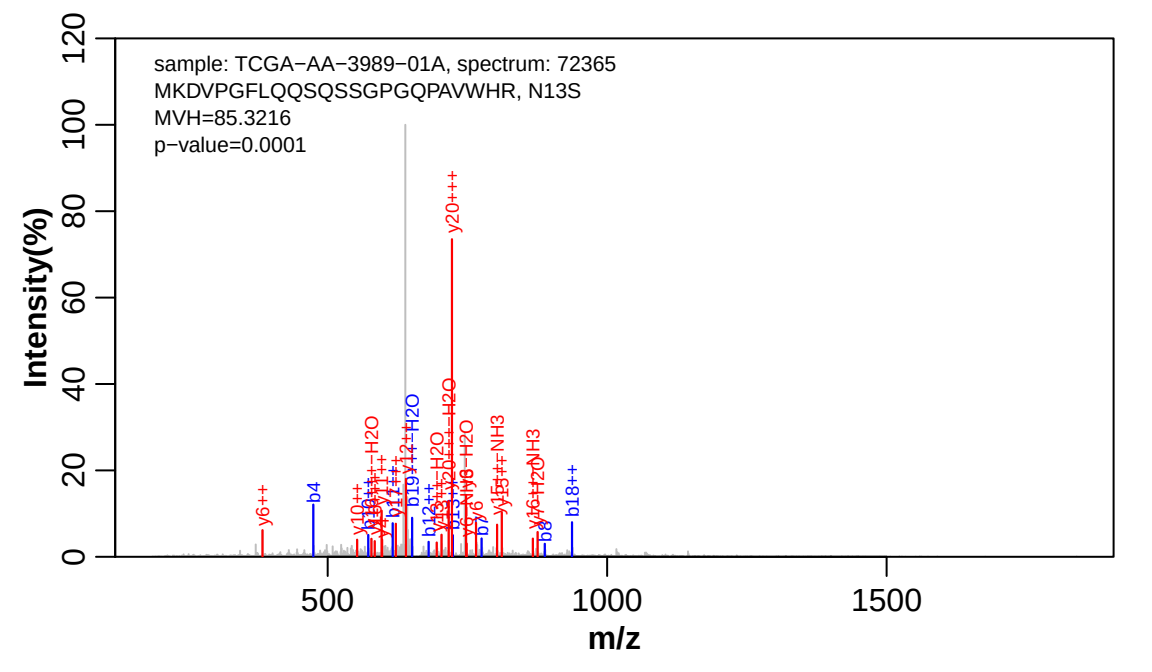

sample: TCGA−AA−3989−01A, spectrum: 138827
LPNVEEAEVPKPLPPASKDEDEDLQSLLR, S3N
MVH=71.7381
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y4
y9
y16+++
b19+++
y25+++
y28+++
y20++
y9
y11

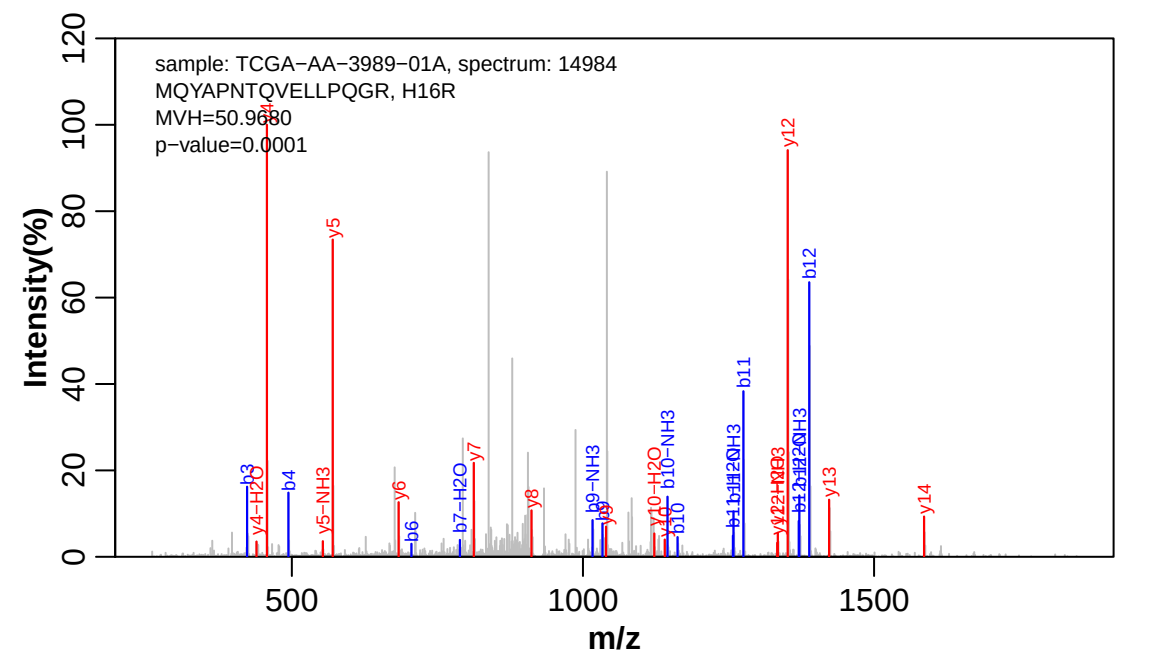

sample: TCGA−AA−3989−01A, spectrum: 79328
LQELTPSSGDPGEHDPASTHK, P4L
MVH=68.2681
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
y16+++
y11++
y16+++−H2O
y19+++−H2O
y13++
y14++
y15++
y16++

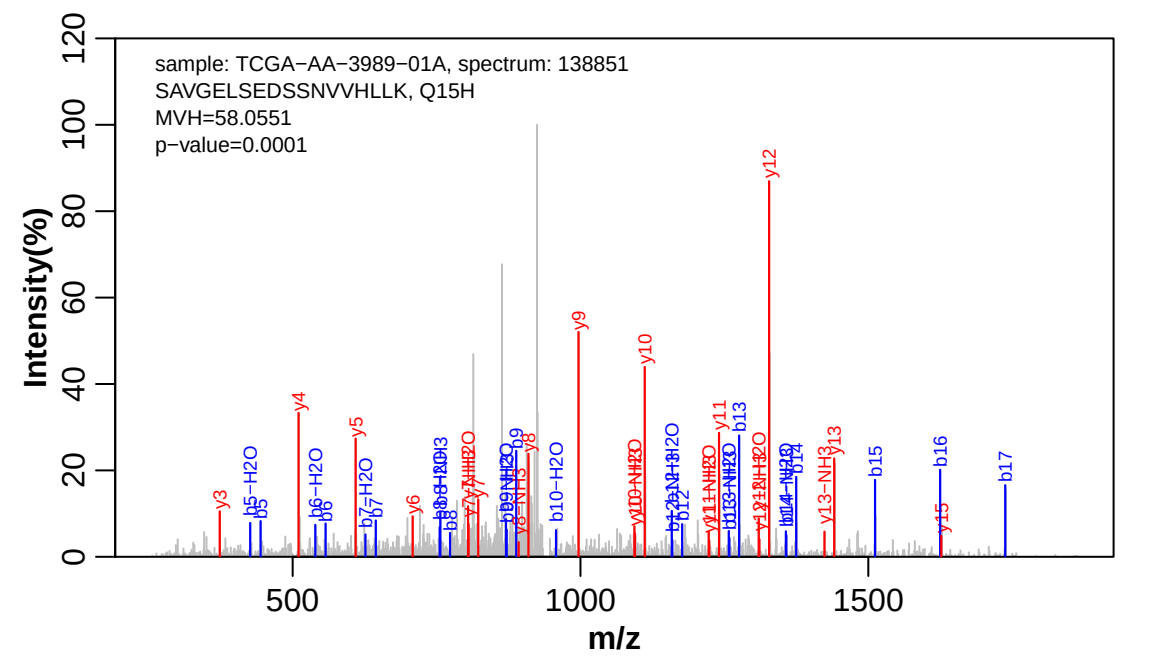

sample: TCGA−AA−3989−01A, spectrum: 112317
LSDLQEALDQALNHVR, Y14H
MVH=57.4308
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

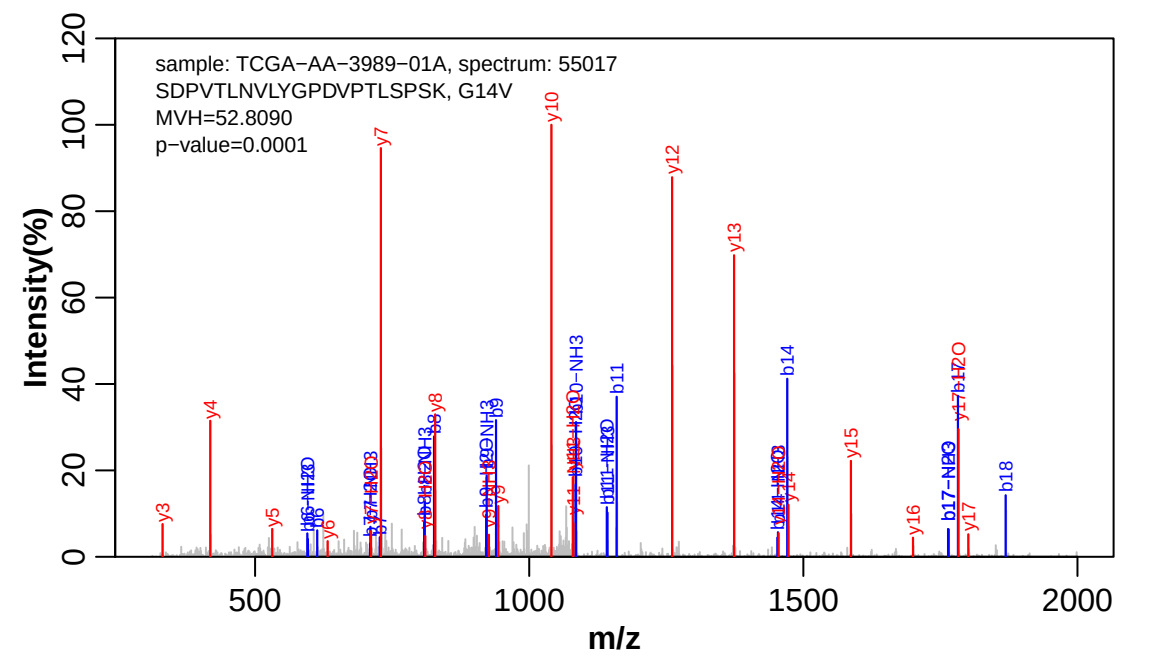

sample: TCGA−AA−3989−01A, spectrum: 73301
LSVFSTLDAPVAPSDK, V7I
MVH=43.0065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
b12
y13
b5−NH3
y4−H2O
b3−H2O
b3
b4
b5
y6−NH3
y7−H2O
b7−NH3
b7−H2O
b11−NH3
b11−H2O
b11
y10−NH3
y10−H2O
y12
b10
b9
b8

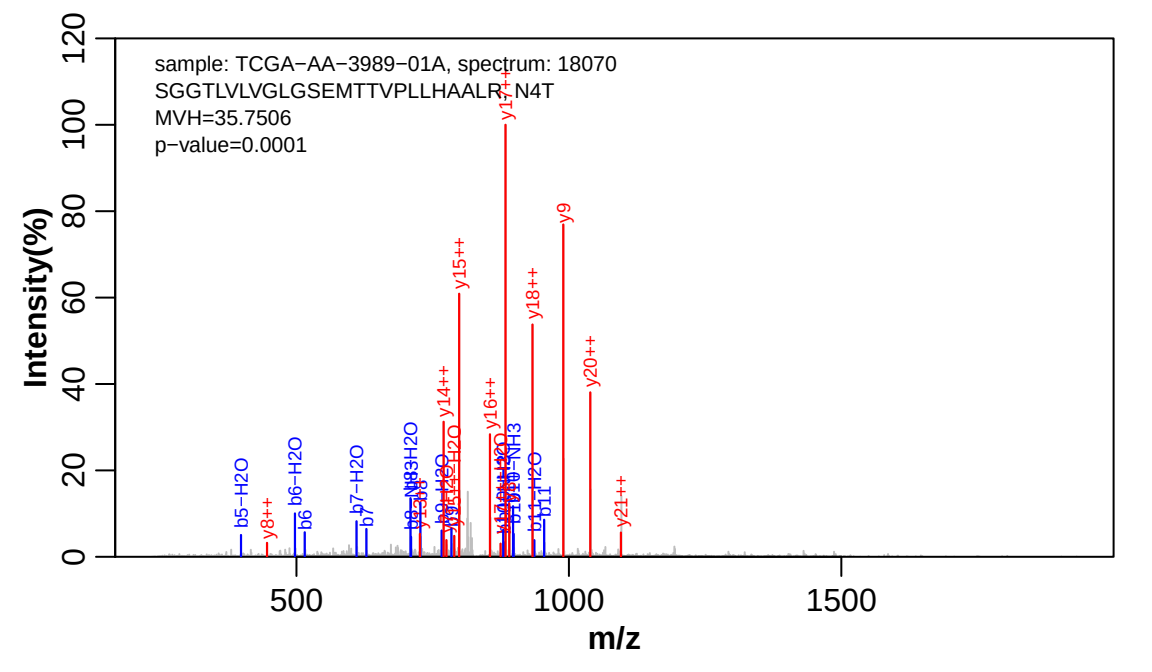

sample: TCGA−AA−3989−01A, spectrum: 6149
LVTDYTLAEADAALQK, E11D
MVH=79.7463
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b4
y4
y5
b5−H2O
b5
y6
b6−NH3
b6−H2O
y7−H2O
y7
b7−NH3
b7−H2O
y8−NH3
y8
b8
y9−H2O
y9
b9−NH3−H2O
b9
y10
b10−NH3
b10
y11
b11−H2O
b11
b12−H2O
b12
y12
b13−H2O
b13
y13
b14
y14
b15

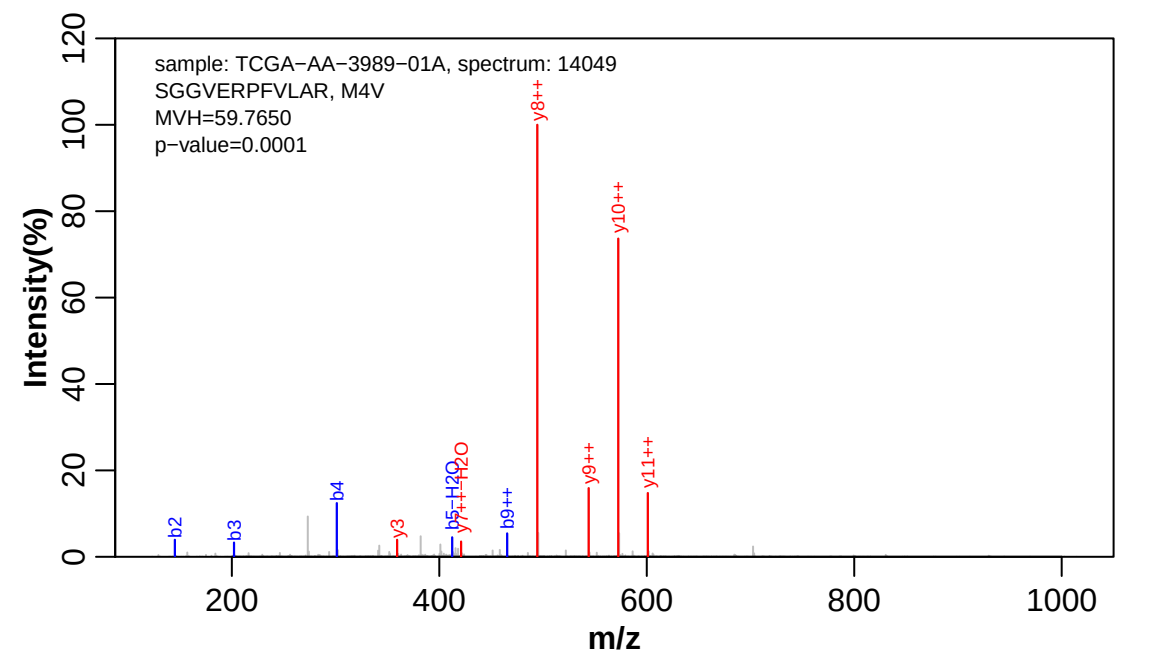

sample: TCGA−AA−3989−01A, spectrum: 72365
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=85.3216
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6++
b4
y10++
y20+++
b18++

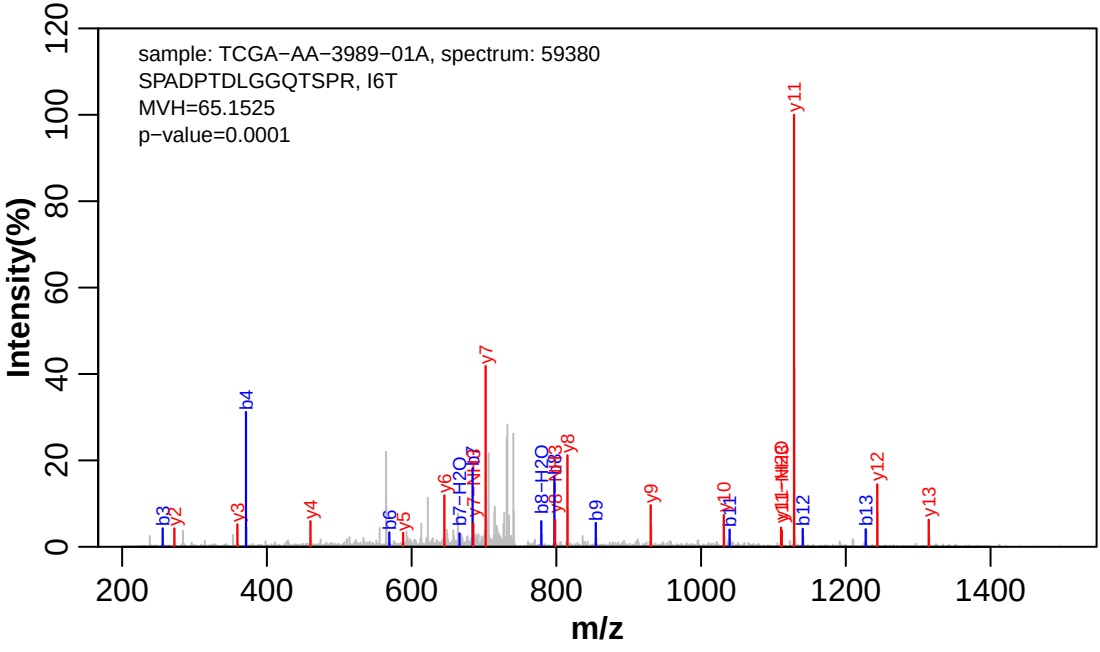

sample: TCGA−AA−3989−01A, spectrum: 14984
MQYAPNTQVELLPQGR, H16R
MVH=50.9680
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b11
y13
y14
y7
y8
y6
b6
b4
b3
y4−H2O
y5−NH3
b7−H2O
b9−NH3
y10−H2O
b10−NH3
b10

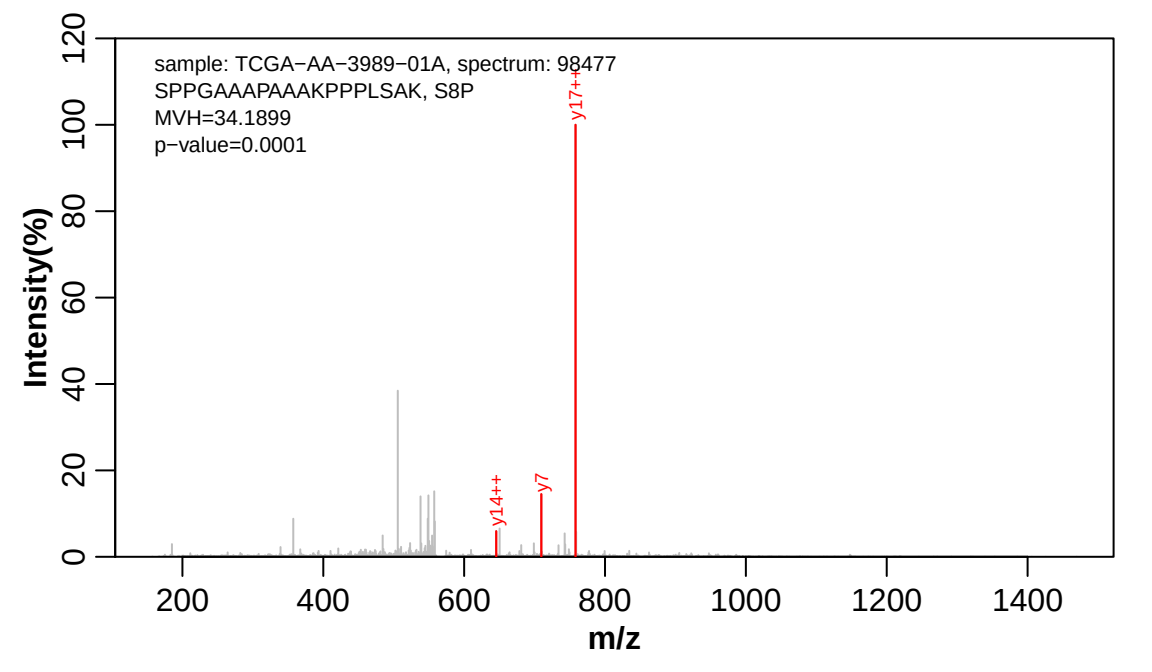

sample: TCGA−AA−3989−01A, spectrum: 138851
SAVGELSEDSSNVVHLLK, Q15H
MVH=58.0551
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
b5−H2O
b6−H2O
b7−H2O
b10−H2O
y13−NH3
b15
b16
b17

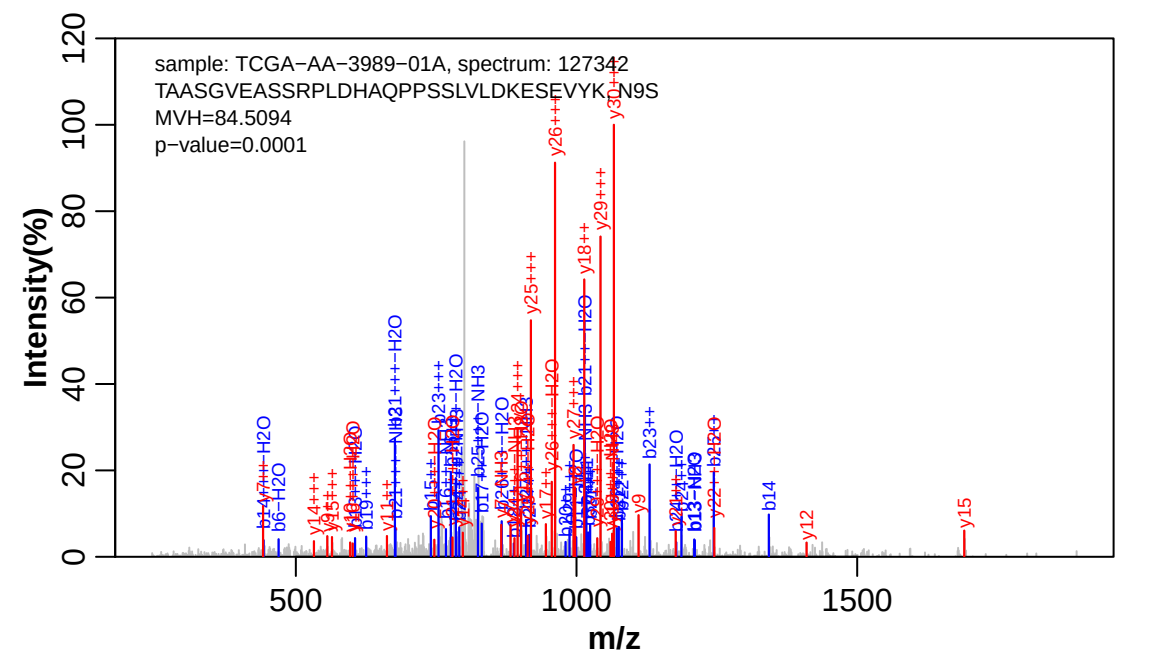

sample: TCGA−AA−3989−01A, spectrum: 55017
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=52.8090
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y6
y7
y8
y10
y12
y13
y14
y15
y16
y17
b11
b14
b17−NH3
b18

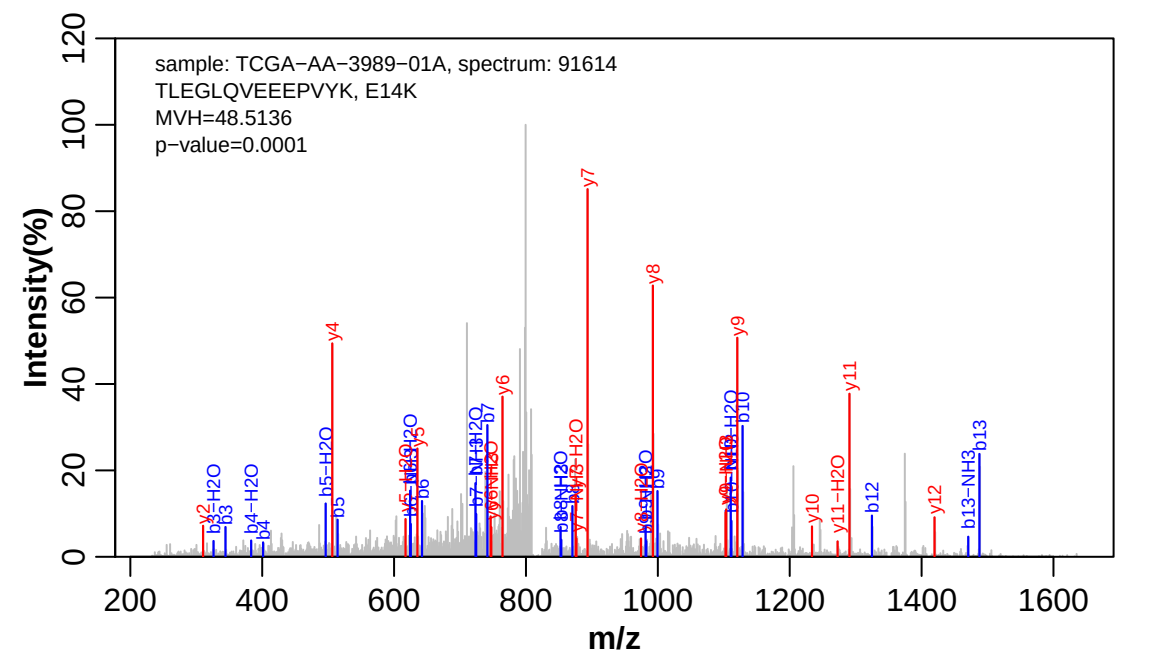

sample: TCGA−AA−3989−01A, spectrum: 18070
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=35.7506
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y9
y18++
y15++
y20++
y16++
y14++
y21++
b5−H2O
y8++
b6−H2O
b6
b7−H2O
b7
b11−H2O
b11

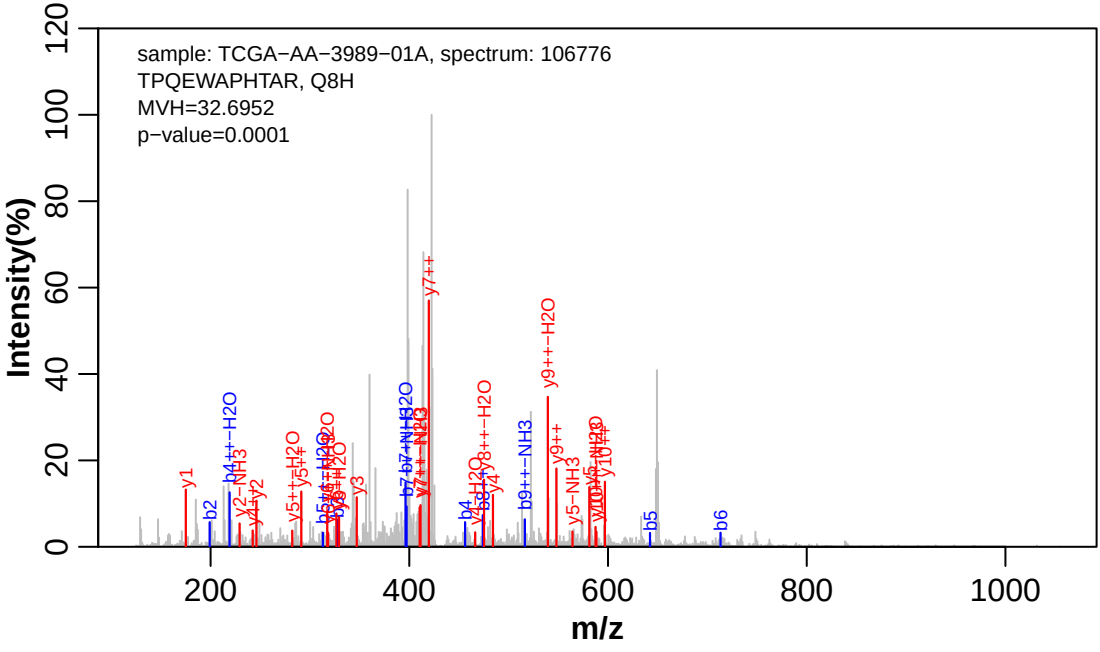

sample: TCGA−AA−3989−01A, spectrum: 14049
SGGVERPFVLAR, M4V
MVH=59.7650
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b4
y3
b5−H2O
y7++−H2O
b9++
y8++
y9++
y10++
y11++

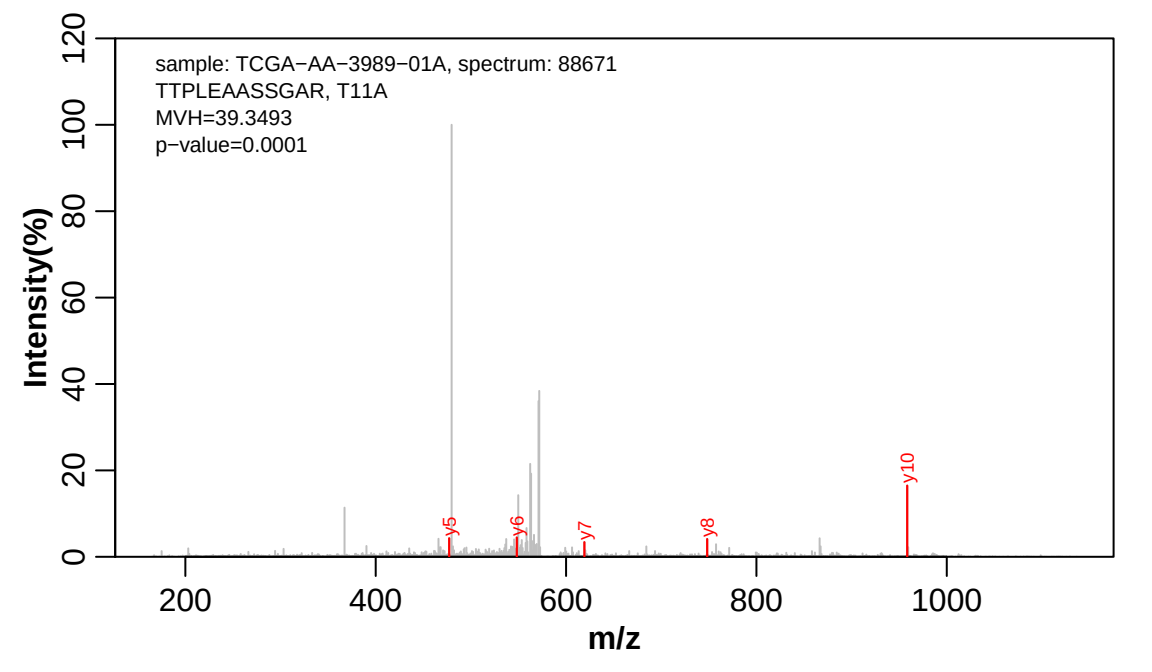

sample: TCGA−AA−3989−01A, spectrum: 59380
SPADPTDLGGQTSPR, I6T
MVH=65.1525
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
b7−H2O
b7−NH3
y7
y7−NH3
b8−H2O
b8−NH3
y8
b9
y9
b10
b11
y10
y11−H2O
y11−NH3
y11
b12
b13
y12
y13

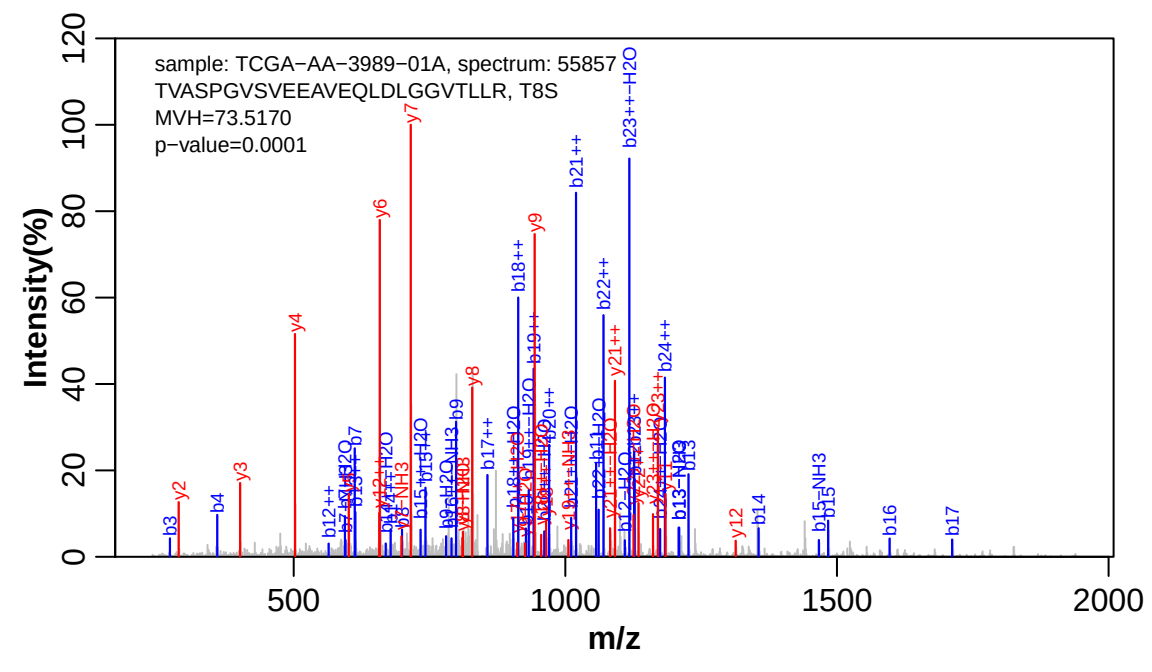

sample: TCGA−AA−3989−01A, spectrum: 98477
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.1899
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

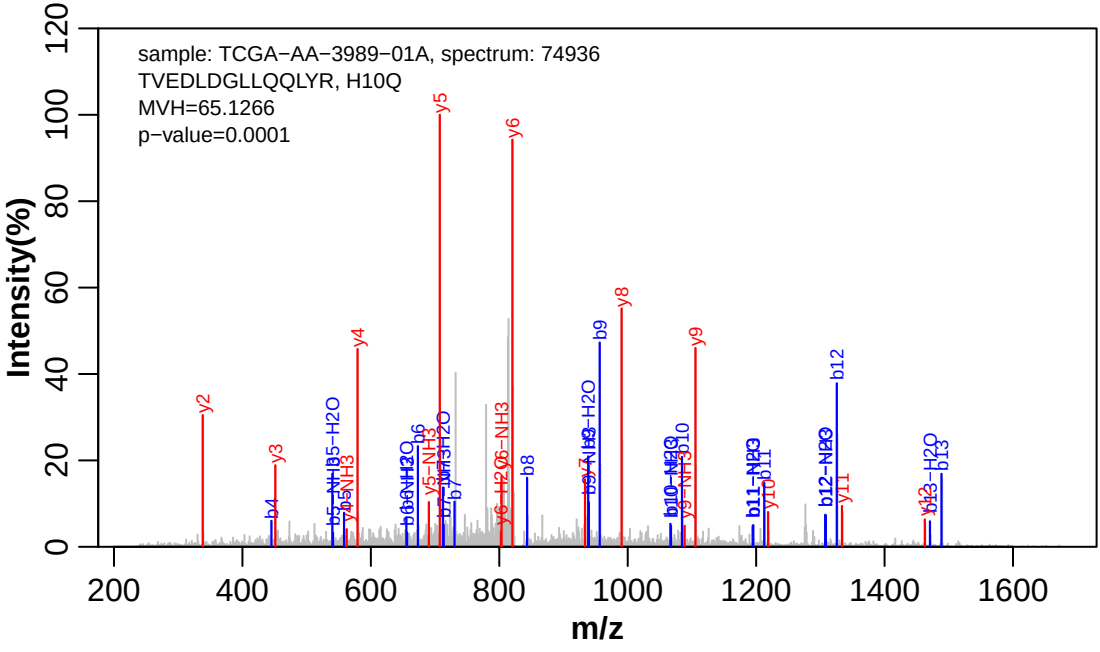

sample: TCGA−AA−3989−01A, spectrum: 127342
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK_N9S
MVH=84.5094
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y26+++
y31+++
y29+++
y25+++
y18++
b21+++−H2O
b6−H2O
y15
y12
b14
b23++
y9
y27+++
b17−H2O−NH3
b21+++−NH3−H2O
b23+++
y11++
b19+++
y14+++

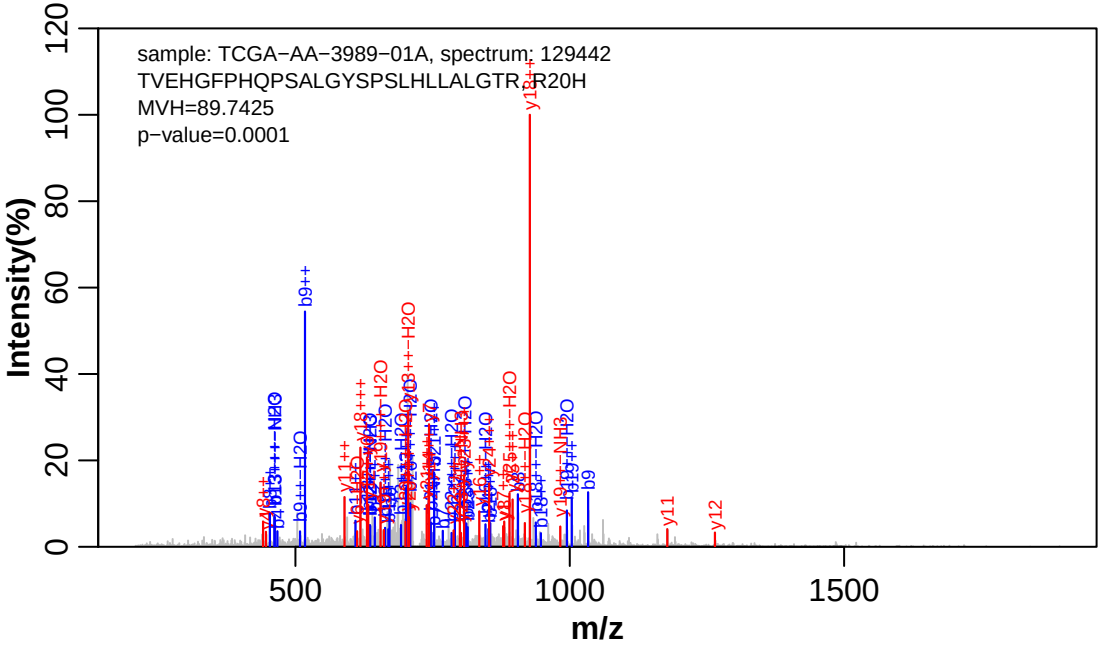

sample: TCGA−AA−3989−01A, spectrum: 91614
TLEGLQVEEEPVYK, E14K
MVH=48.5136
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
b5
y5−H2O
y5−NH3
y5
b6
b7−NH3−H2O
b7
y6−H2O
y6
y7
b8−NH3−H2O
b8−H2O
b8
y7−NH3−H2O
y8
b9−H2O
b9
y9−NH3−H2O
y9−NH3
y9
b10−H2O
b10
y9
y10
y11−H2O
y11
b12
y12
b13−NH3
b13

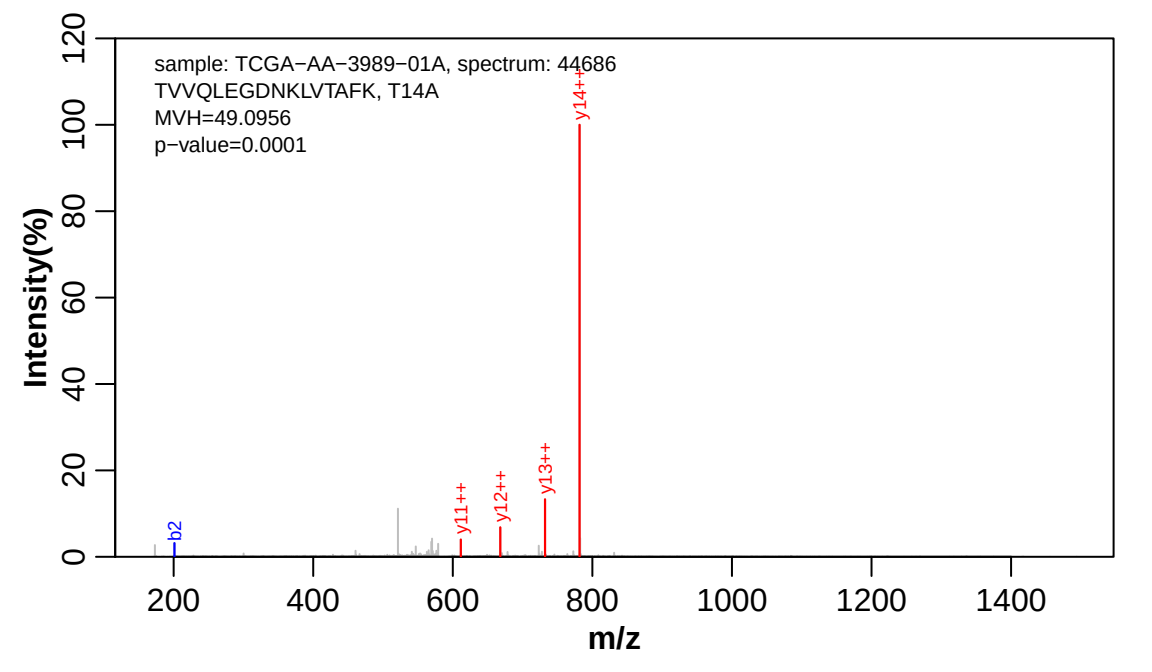

sample: TCGA−AA−3989−01A, spectrum: 106776
TPQEWAPHTAR, Q8H
MVH=32.6952
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b4++−H2O
y2−NH3
y4++
y2
y5++−H2O
y3
y7++
b7++−H2O
b7++−NH3
y9++−H2O
y9++
y5−NH3
b9++−NH3
b4
y8++−H2O
b5
b6

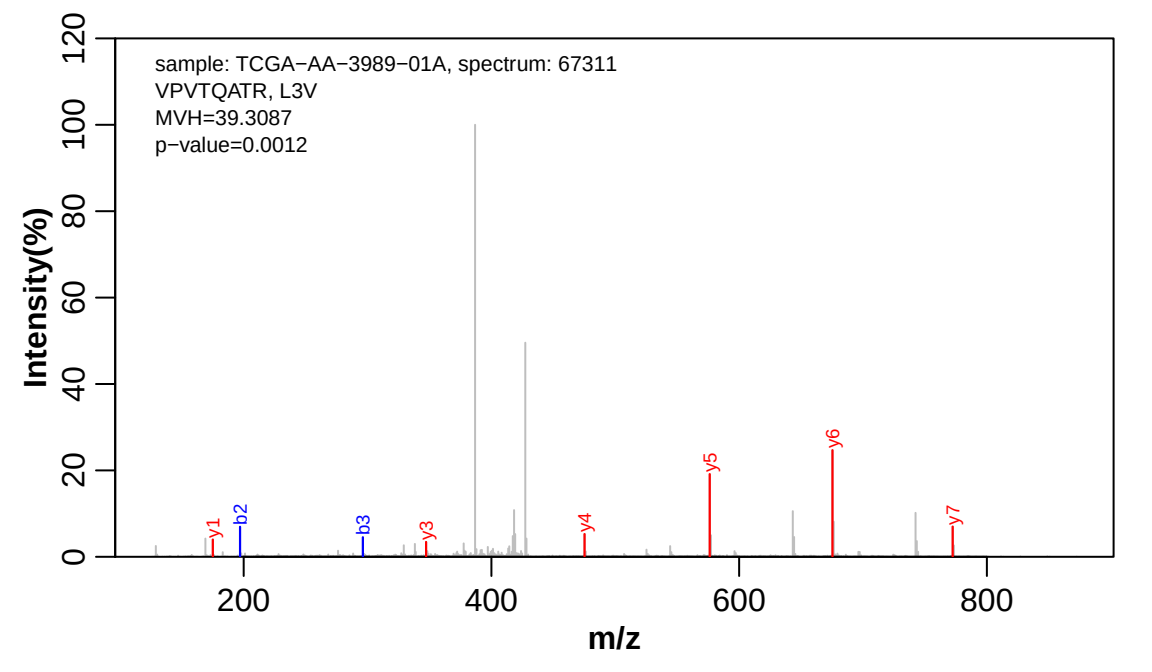

sample: TCGA−AA−3989−01A, spectrum: 88671
TTPLEAASSGAR, T11A
MVH=39.3493
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

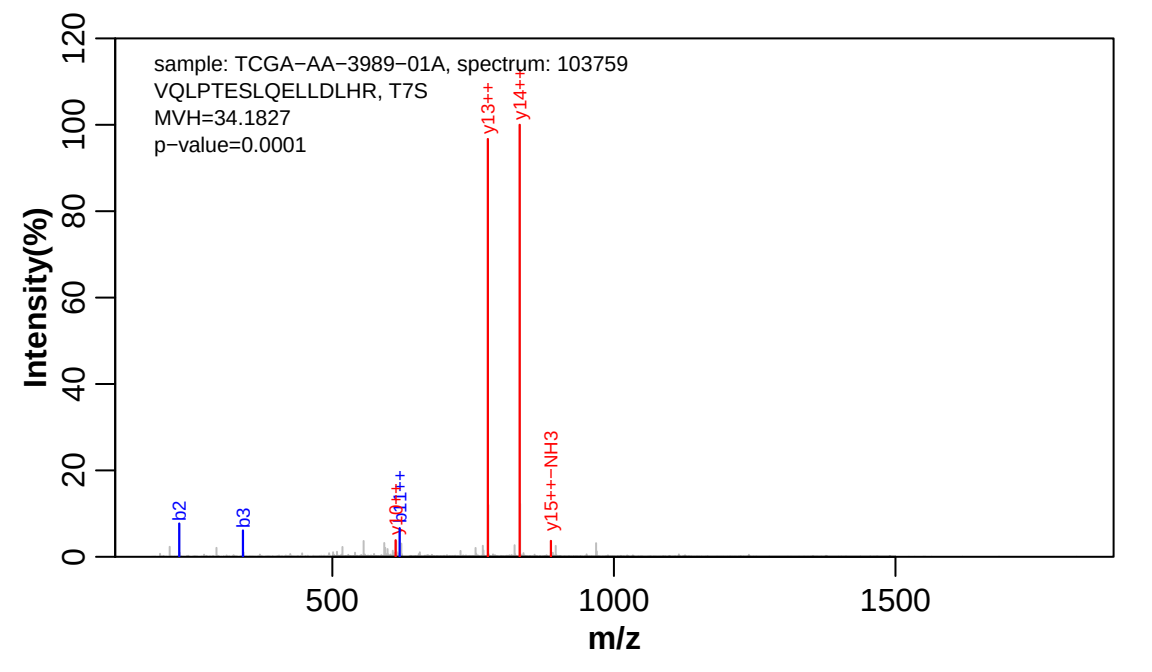

sample: TCGA−AA−3989−01A, spectrum: 55857
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=73.5170
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y2
b4
y3
y4
b12++
y6
y7
y8
b17++
b18++
y9
b19++
b21++
b22++
y21++
b24++
b13
y12
b14
b15−NH3
b16
b17

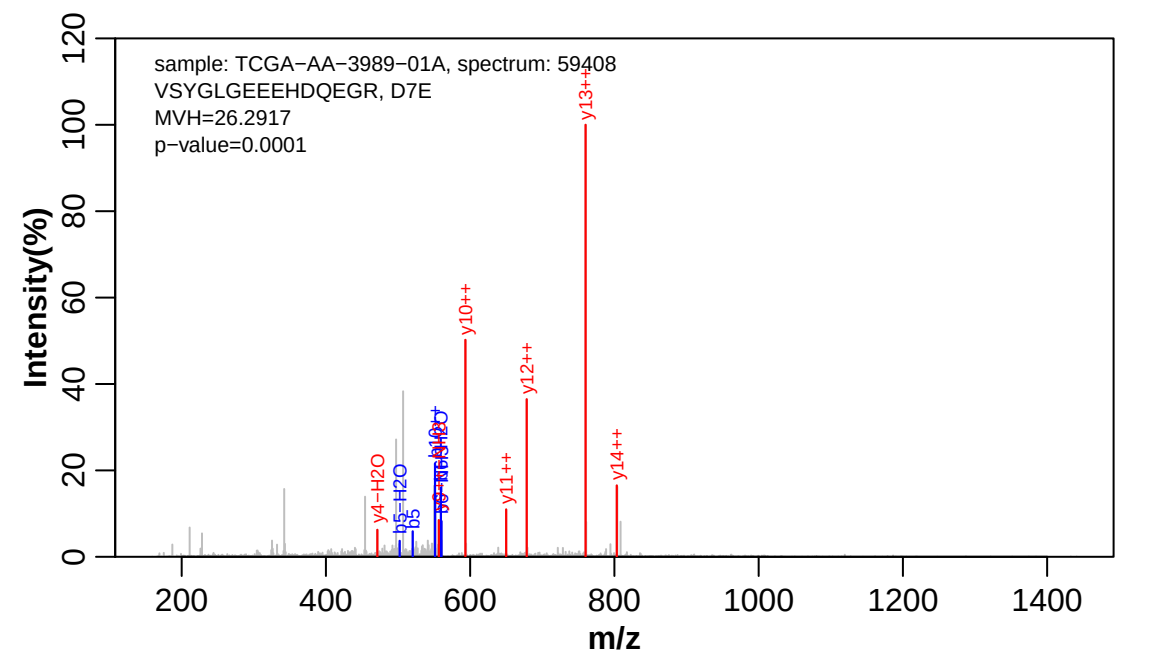

sample: TCGA−AA−3989−01A, spectrum: 74936
TVEDLDGLLQQLYR, H10Q
MVH=65.1266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
y5
y6
b8
y8
b9
y9
b12
y11
b13

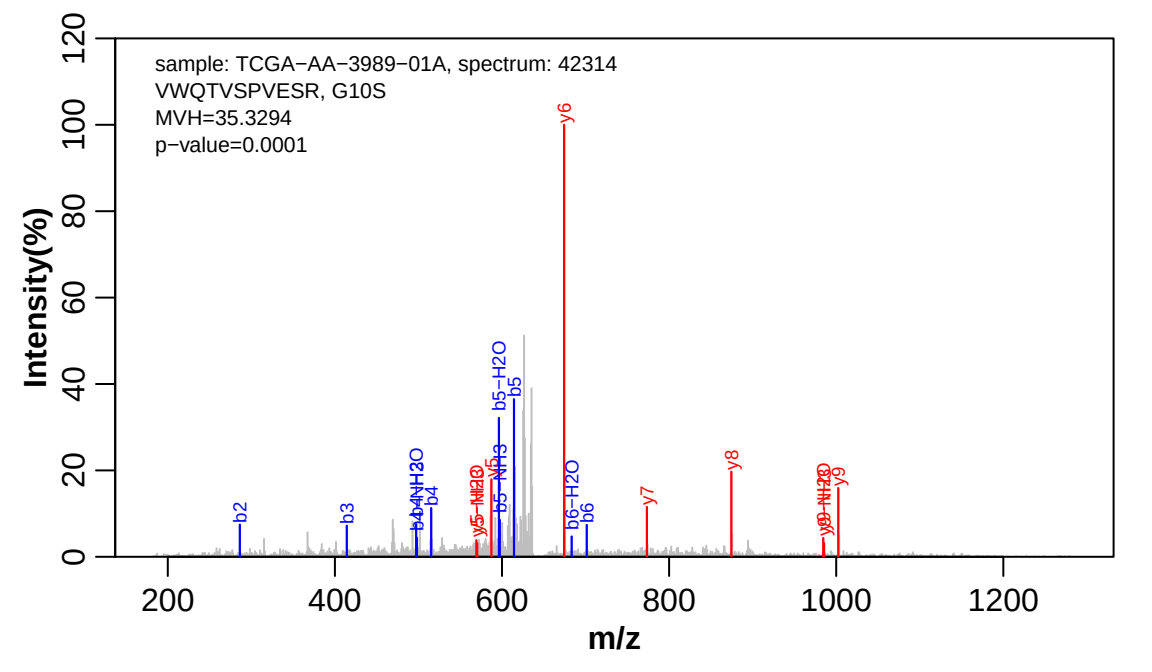

sample: TCGA−AA−3989−01A, spectrum: 129442
TVEHGFPHQPSALGYSPSLHLLALGTR_R20H
MVH=89.7425
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12++
b9++
b9++−H2O
y11
y12
b9

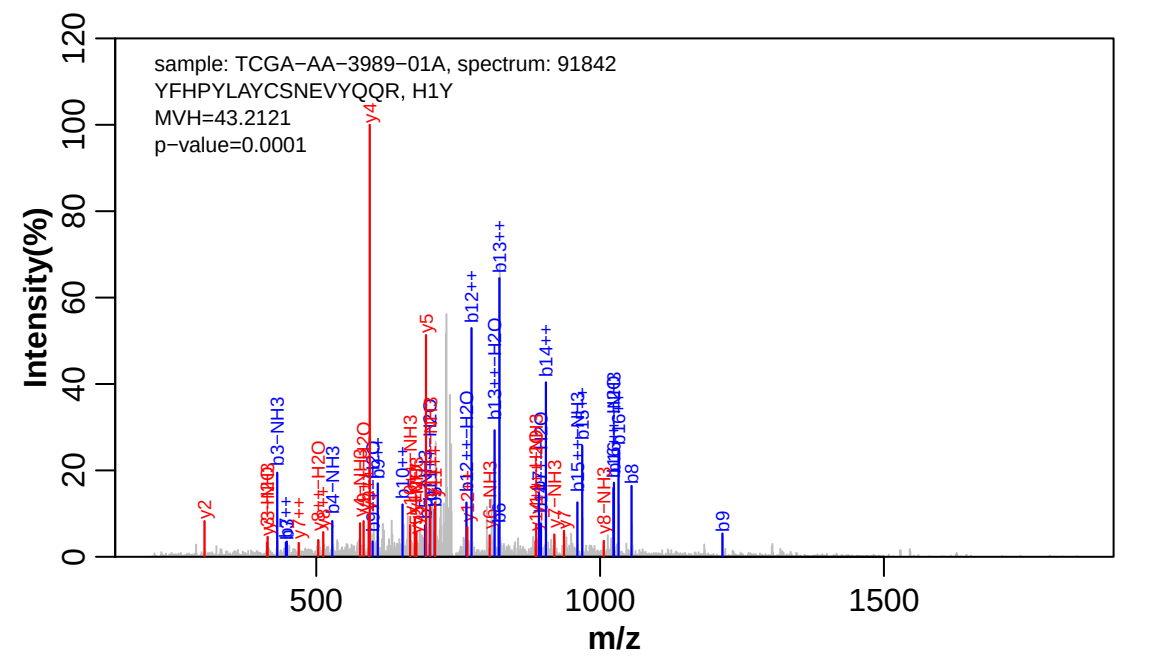

sample: TCGA−AA−3989−01A, spectrum: 44686
TVVQLEGDNKLVTAFK, T14A
MVH=49.0956
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

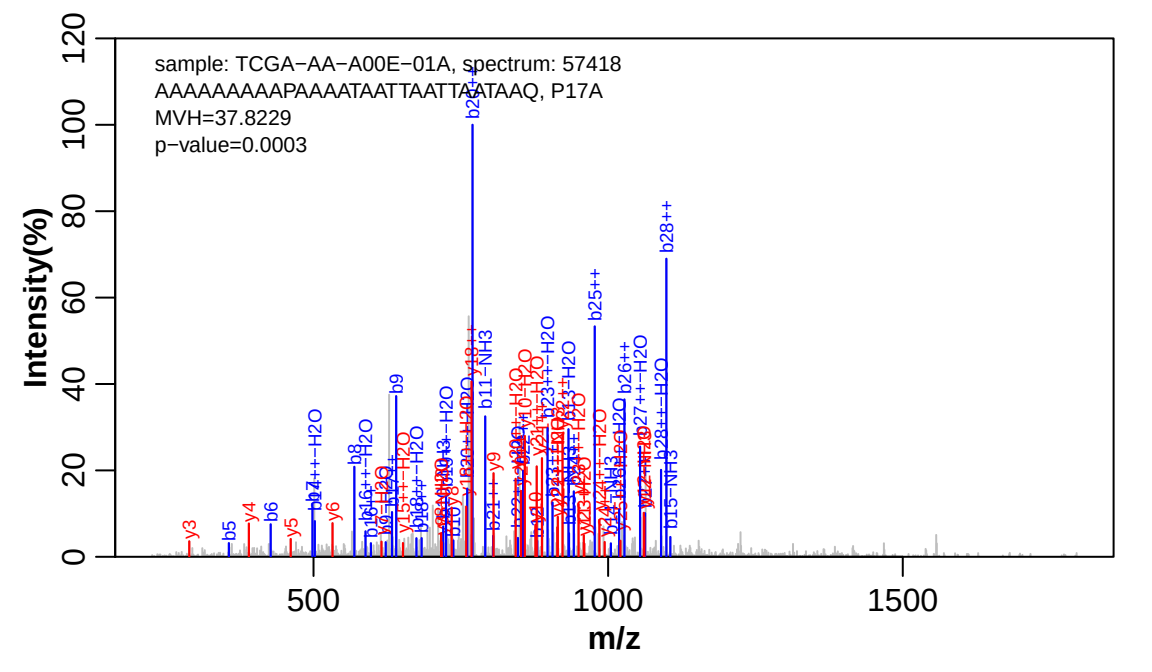

sample: TCGA−AA−3989−01A, spectrum: 67311
VPVTQATR, L3V
MVH=39.3087
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

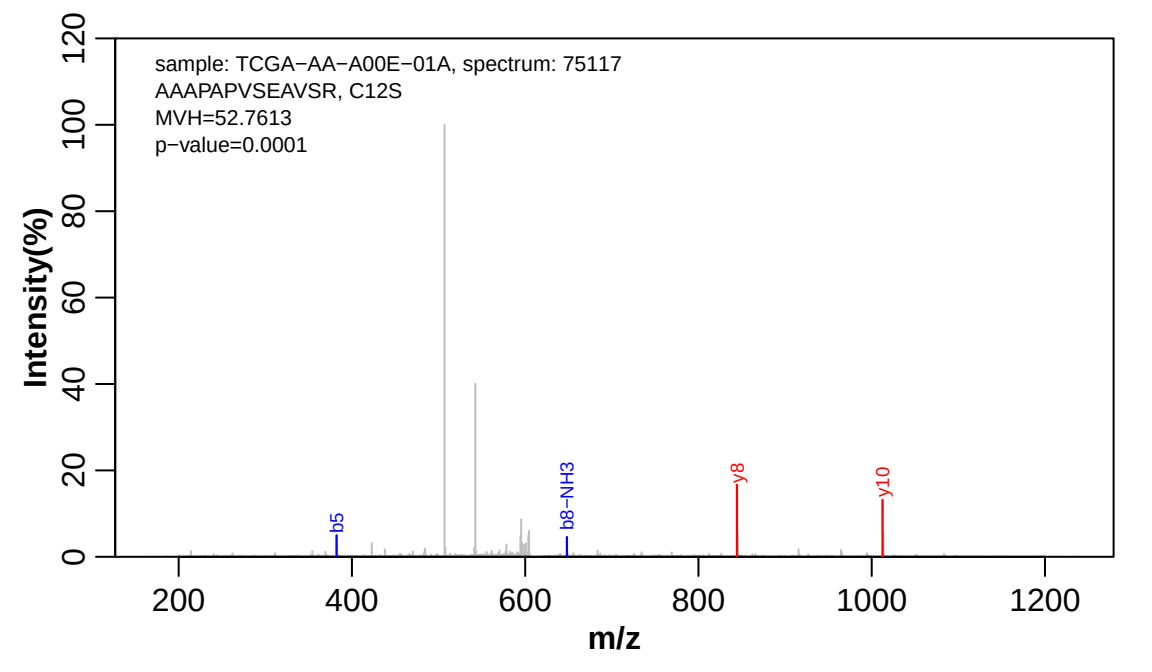

sample: TCGA−AA−3989−01A, spectrum: 103759
VQLPTESLQELLDLHR, T7S
MVH=34.1827
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

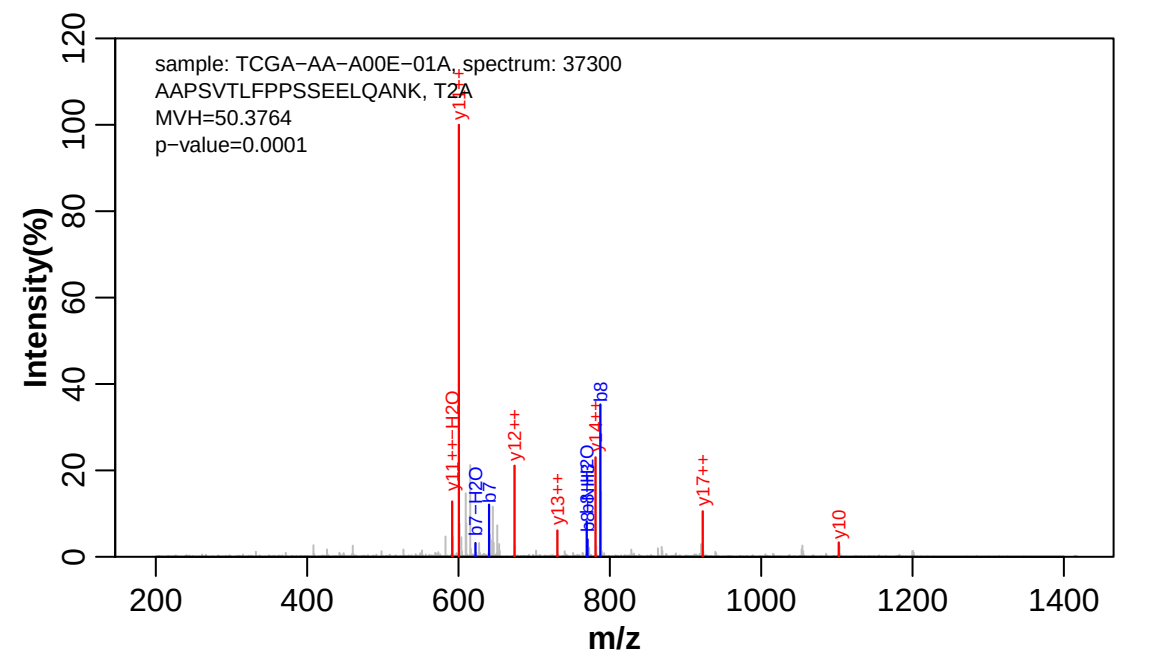

sample: TCGA−AA−3989−01A, spectrum: 59408
VSYGLGEEEHDQEGR, D7E
MVH=26.2917
p−value=0.0001
Intensity(%)
m/z
y13++
y10++
y12++
y11++
y14++
y4−H2O
b5−H2O
b5

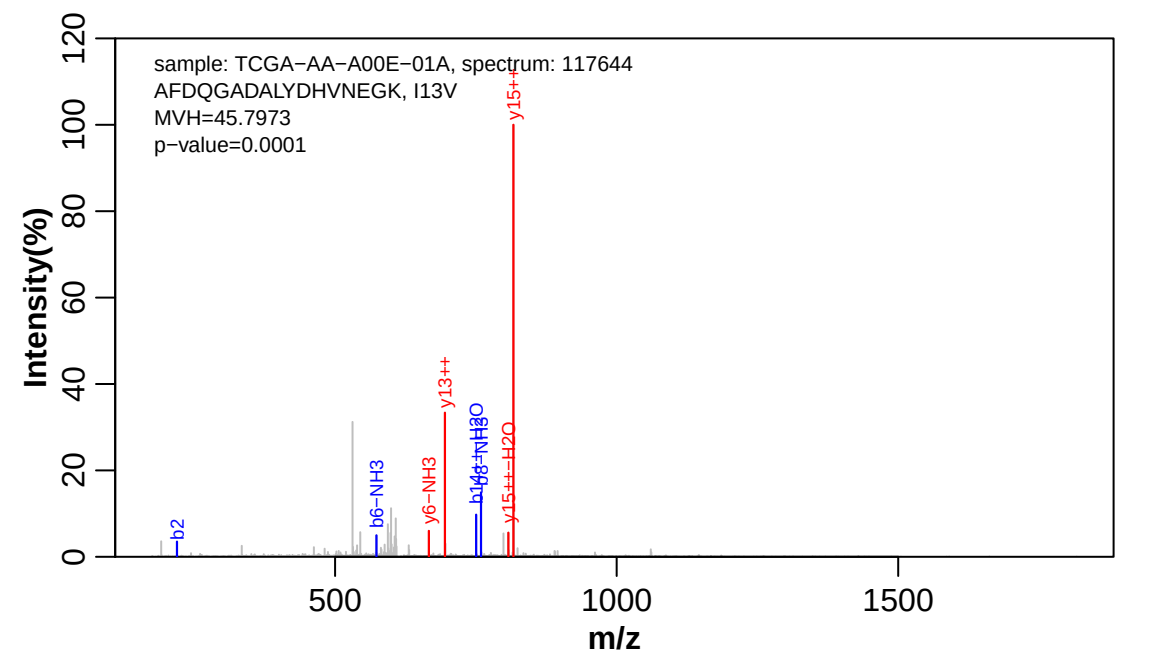

sample: TCGA−AA−3989−01A, spectrum: 42314
VWQTVSPVESR, G10S
MVH=35.3294
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b2
b3
b4
b5
b5−H2O
b5−NH3
b6−H2O
b6
y7
y8
y9

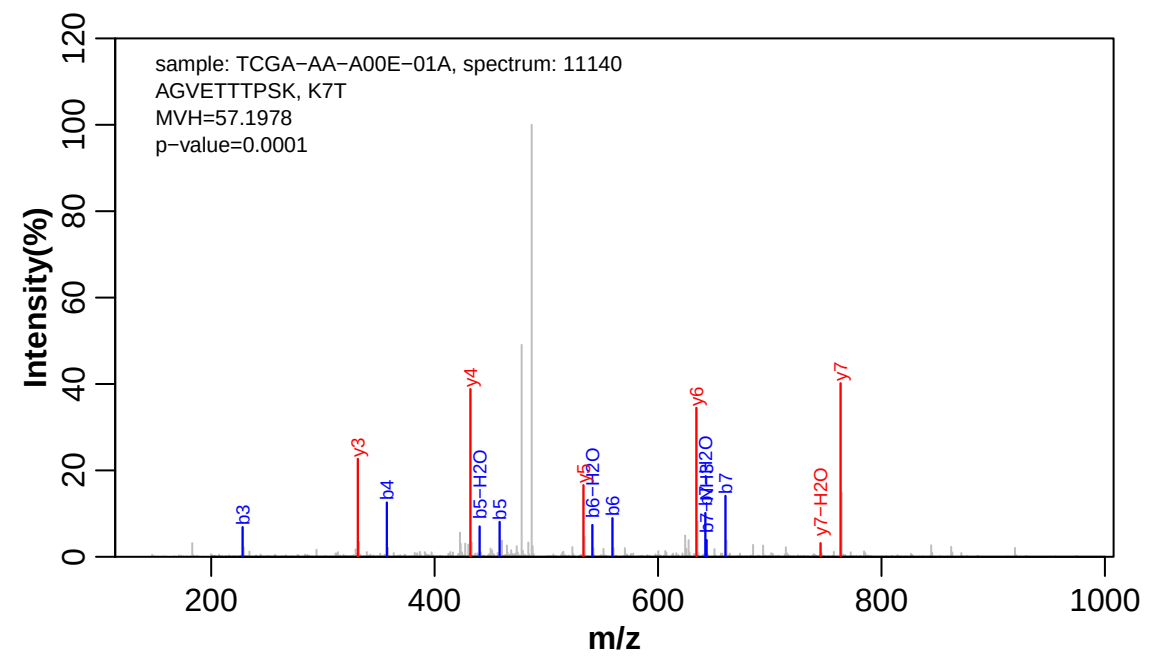

sample: TCGA−AA−3989−01A, spectrum: 91842
YFHPYLAYCSNEVYQQR, H1Y
MVH=43.2121
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y2
b3−NH3
b4−NH3
b12++
b13++
b14++
b9
b8

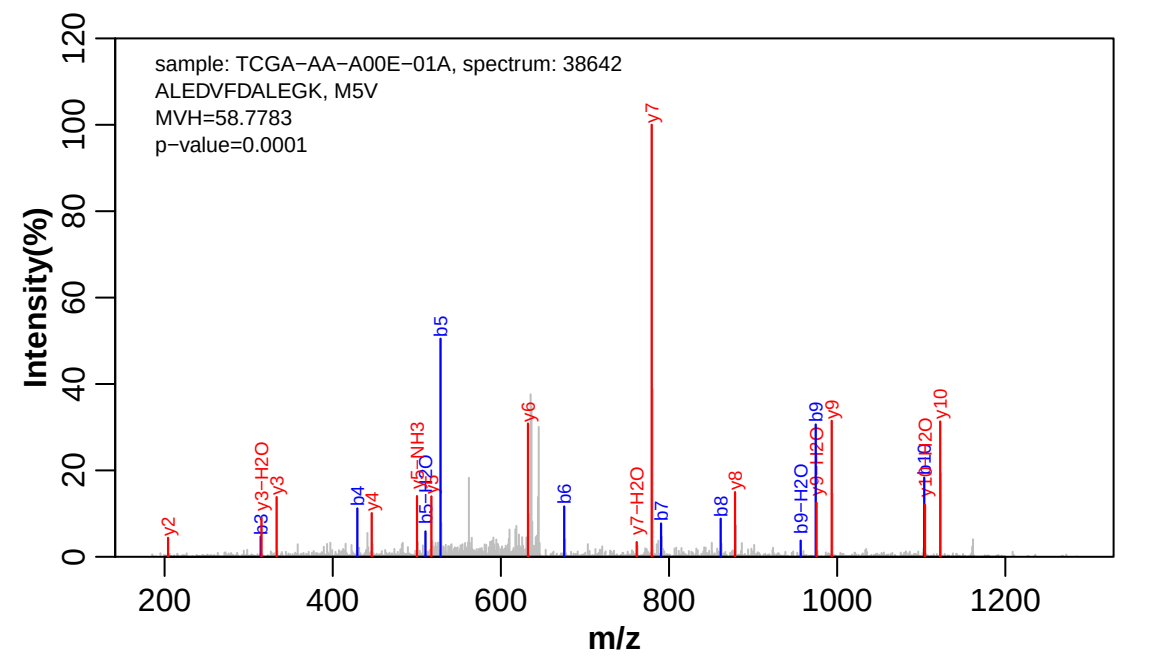

sample: TCGA−AA−A00E−01A, spectrum: 57418
AAAAAAAAAPAAAATAATTAATTATAAQ, P17A
MVH=37.8229
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b11−NH3
b9
y3
b5
y4
b6
y5
y6
b7++−H2O
b8
b8−H2O
b9−H2O
b21++
y9
b15−NH3
b28++−H2O

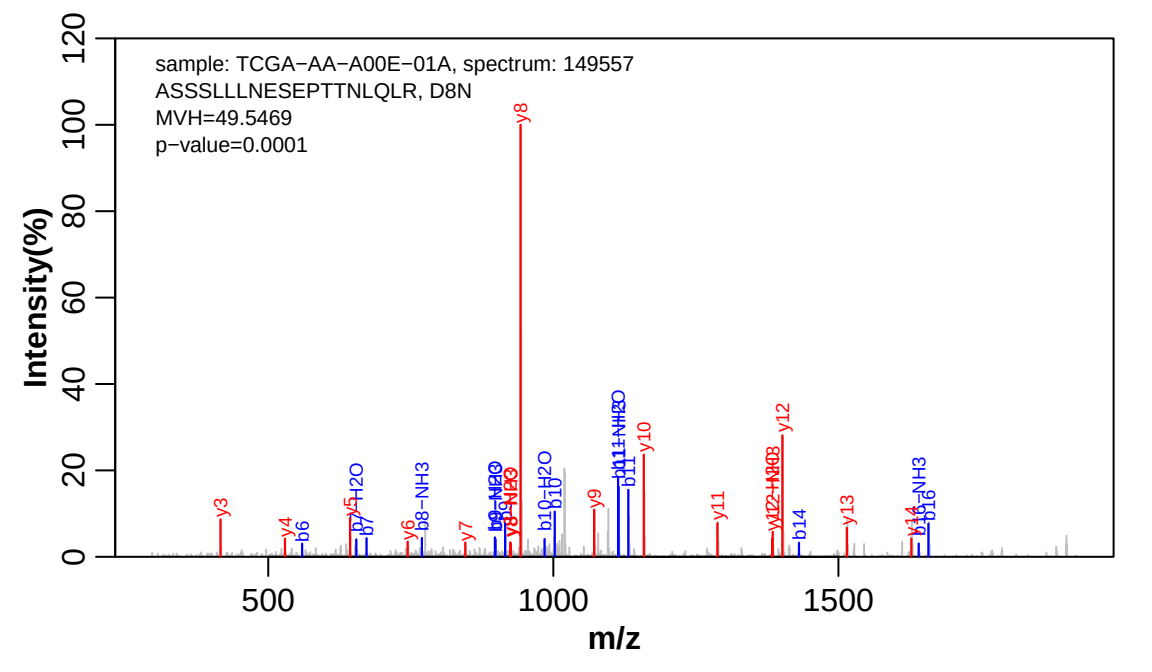

sample: TCGA−AA−A00E−01A, spectrum: 75117
AAAPAPVSEAVSR, C12S
MVH=52.7613
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b8−NH3
y8
y10

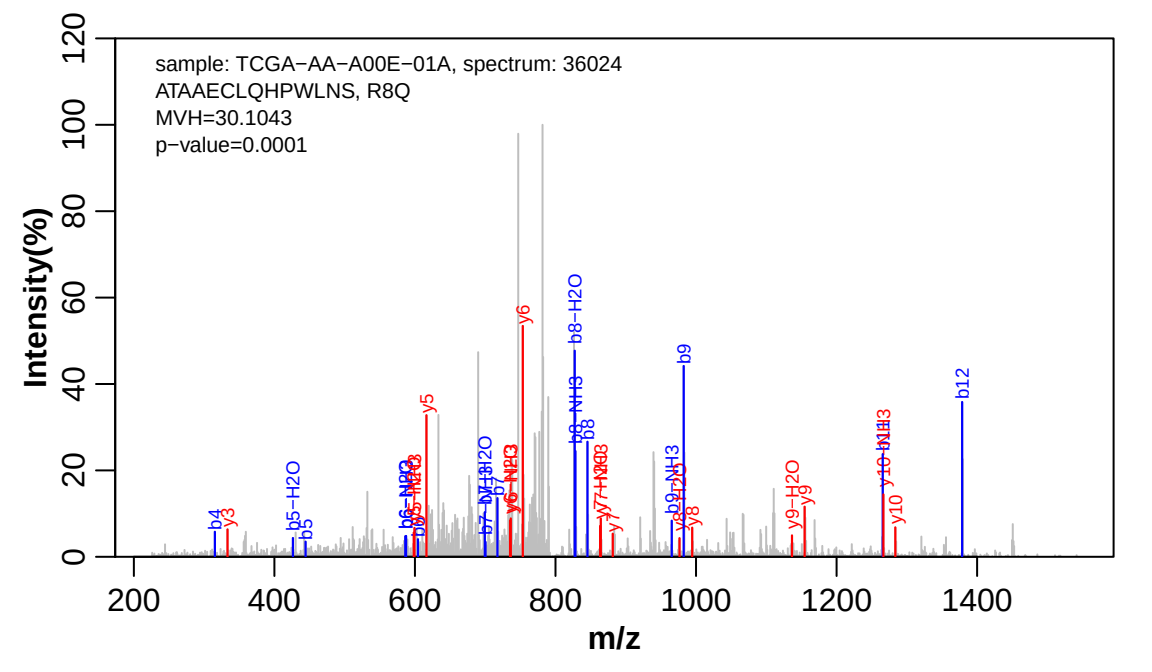

sample: TCGA−AA−A00E−01A, spectrum: 37300
AAPSVTLFPPSSEELQANK, T2A
MVH=50.3764
p−value=0.0001
Intensity(%)
m/z
y11++
y11++−H2O
b7−H2O
b7
y12++
y13++
y14++
b8
y17++
y10

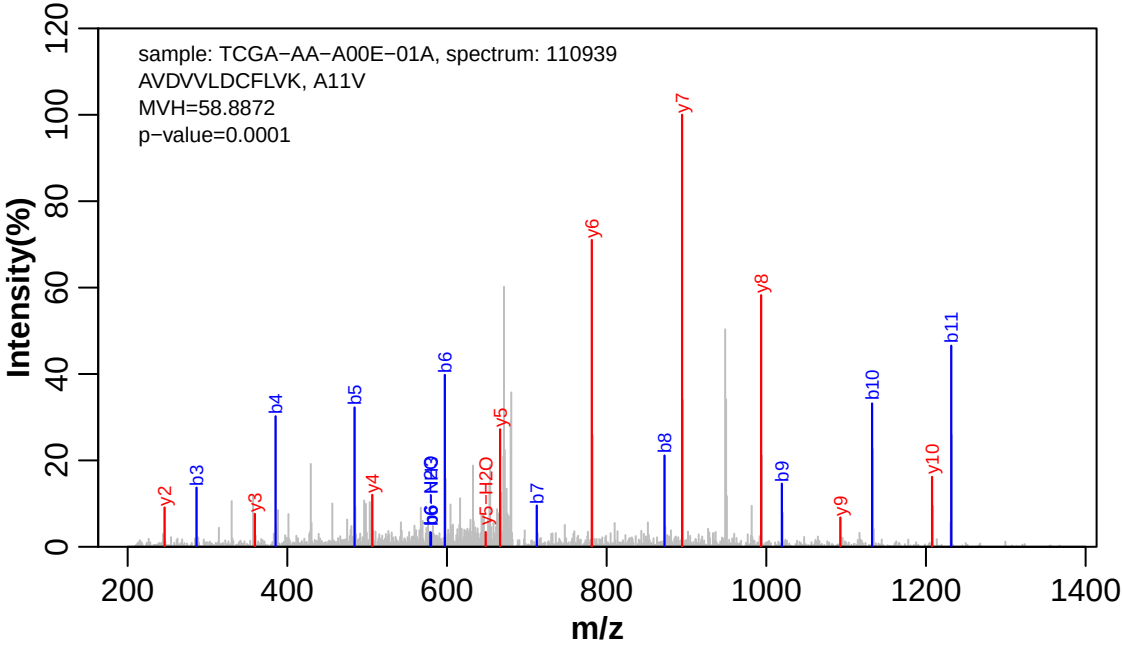

sample: TCGA−AA−A00E−01A, spectrum: 117644
AFDQGADALYDHVNEGK, I13V
MVH=45.7973
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b6−NH3
y6−NH3
y13++
b14−NH3
b14−H2O
y15++−H2O
y15++

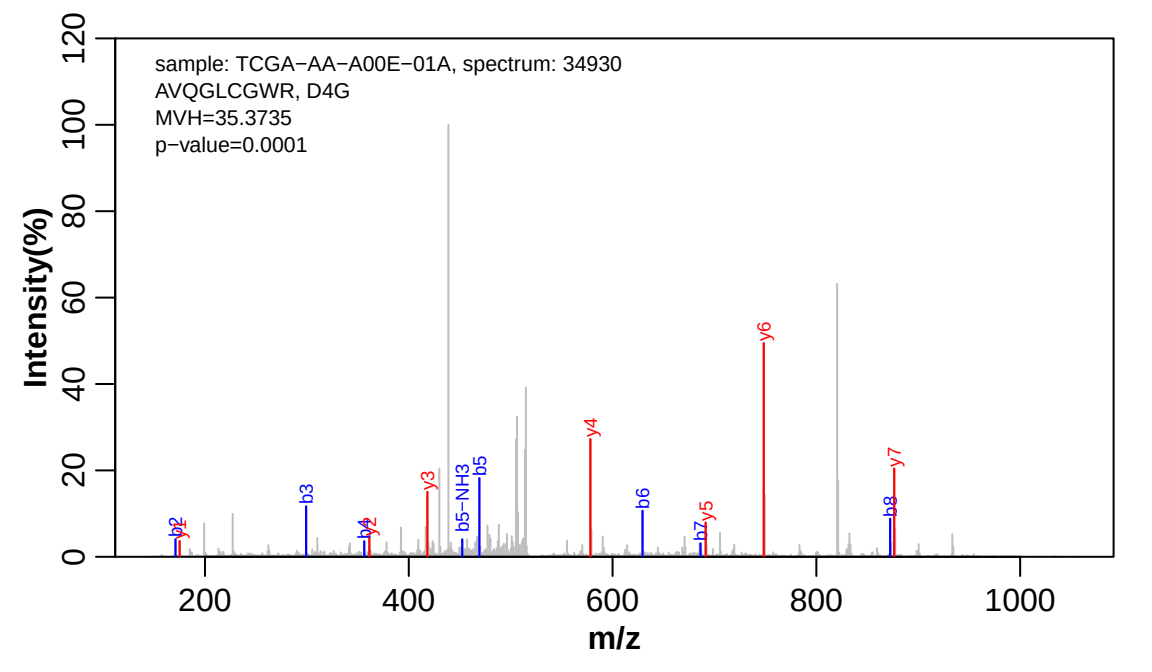

sample: TCGA−AA−A00E−01A, spectrum: 11140
AGVETTTPSK, K7T
MVH=57.1978
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7

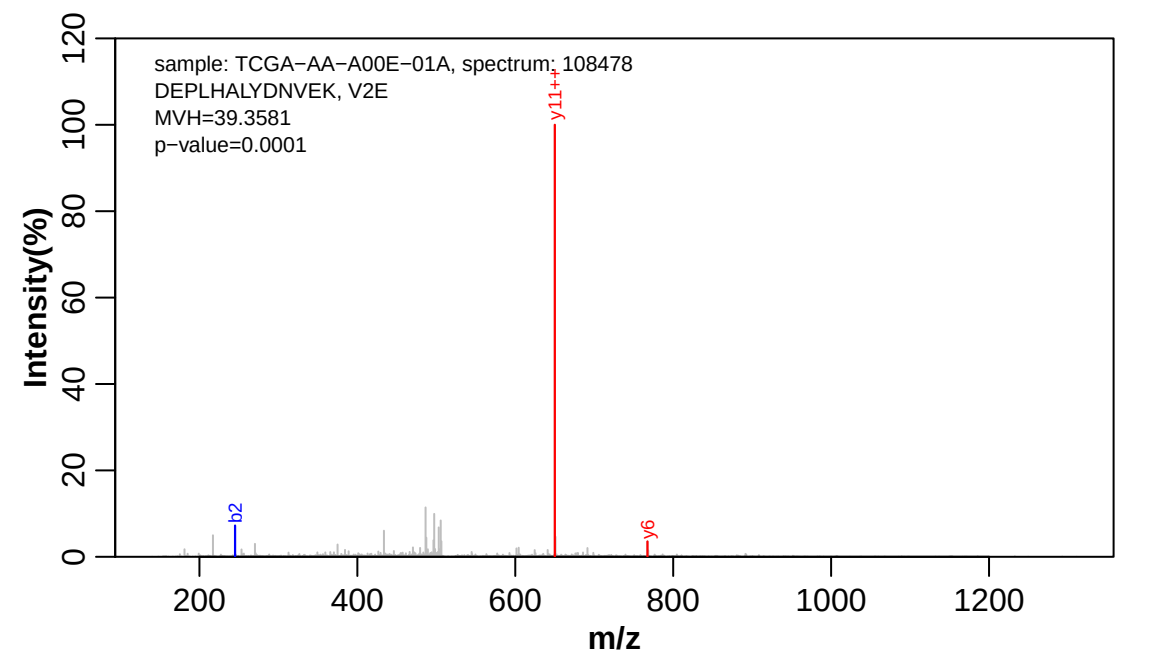

sample: TCGA−AA−A00E−01A, spectrum: 38642
ALEDVFDALEGK, M5V
MVH=58.7783
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5−NH3
b5−H2O
b5
y6
b6
y7
y7−H2O
b7
b8
y8
b9−H2O
y9−H2O
b9
y9
y10−H2O
y10

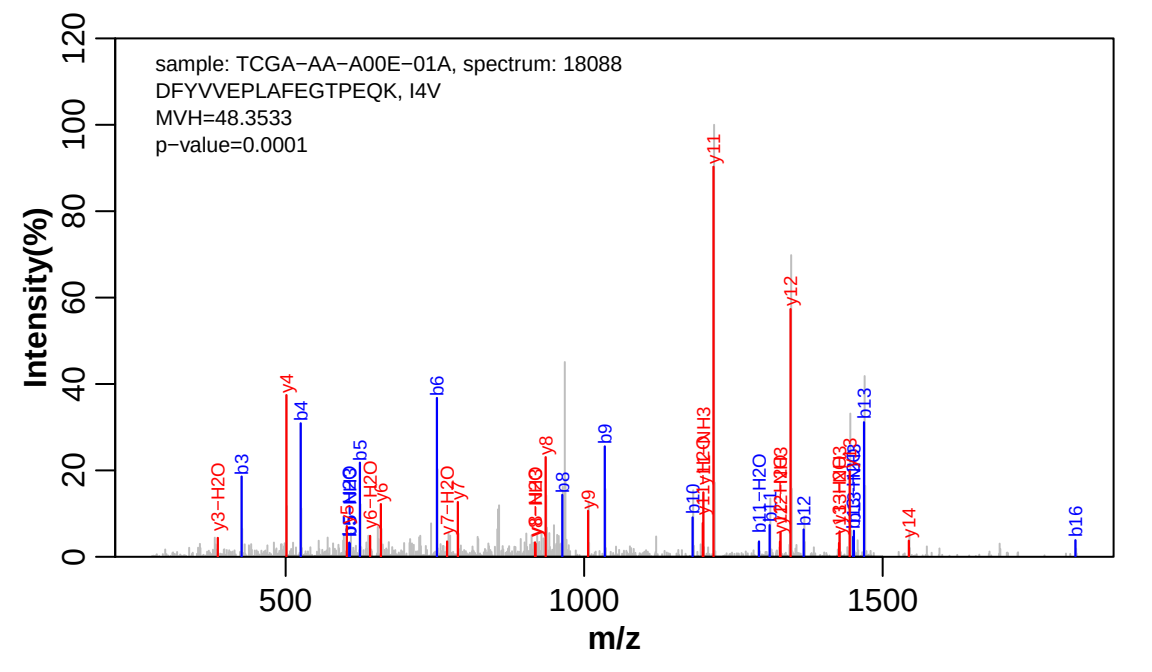

sample: TCGA−AA−A00E−01A, spectrum: 149557
ASSSLLLNESEPTTNLQLR, D8N
MVH=49.5469
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6
y5
b7
y6
b8−NH3
y7
y8
b10−H2O
y9
y10
y11
y12
b14
y13
b16−NH3

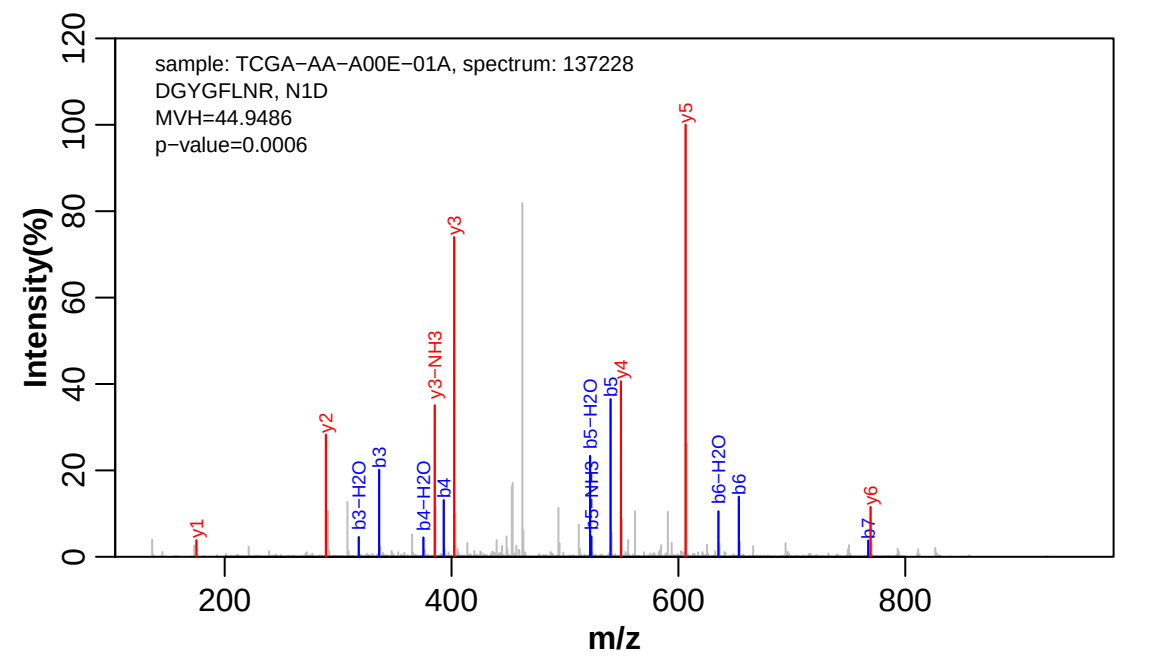

sample: TCGA−AA−A00E−01A, spectrum: 36024
ATAAECLQHPWLNS, R8Q
MVH=30.1043
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y3
b5−H2O
b5
y5
y6
b8−H2O
b8−NH3
b8
b9
b12
y9−H2O
y9
y10−NH3
y10

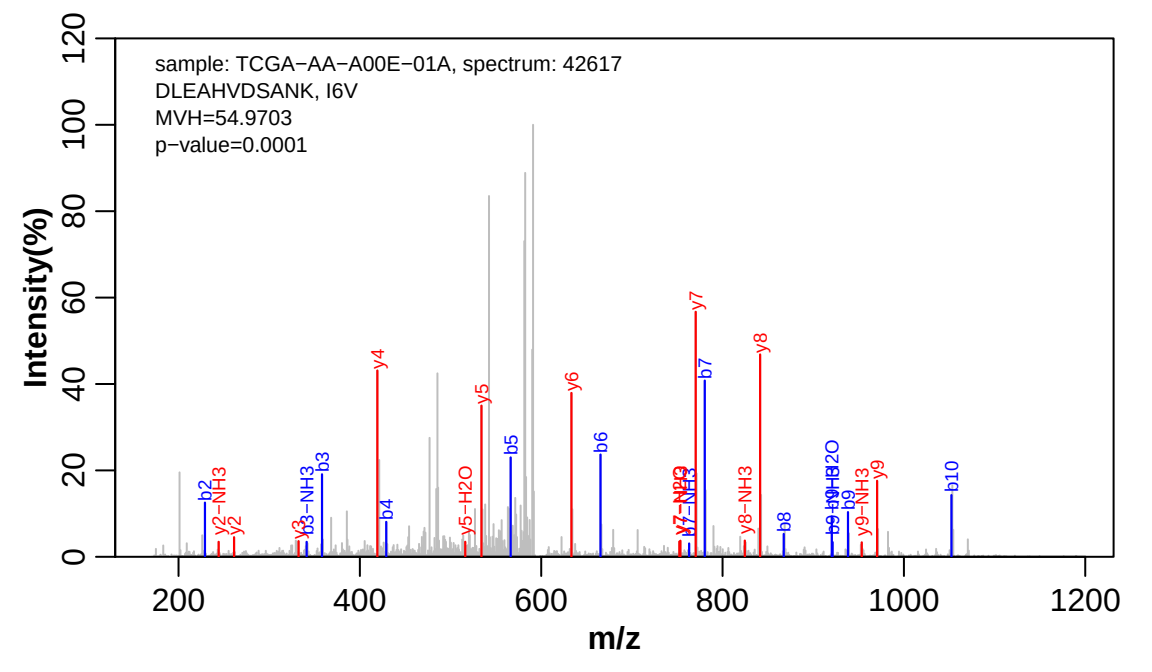

sample: TCGA−AA−A00E−01A, spectrum: 110939
AVDVVLDCFLVK, A11V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5
b6
b6−NH3
b6−H2O
y5
y5−H2O
b7
y6
b8
y7
y8
b9
y9
b10
y10
b11

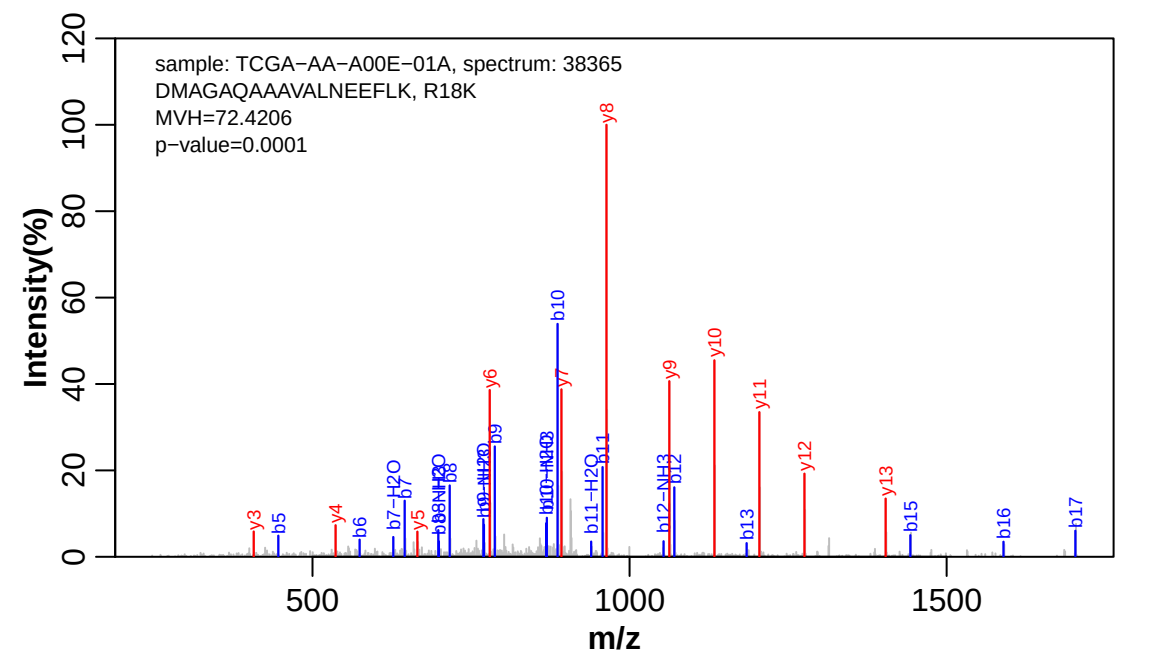

sample: TCGA−AA−A00E−01A, spectrum: 34930
AVQGLCGWR, D4G
MVH=35.3735
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
y2
y3
b5−NH3
b5
y4
b6
b7
y5
y6
b8
y7

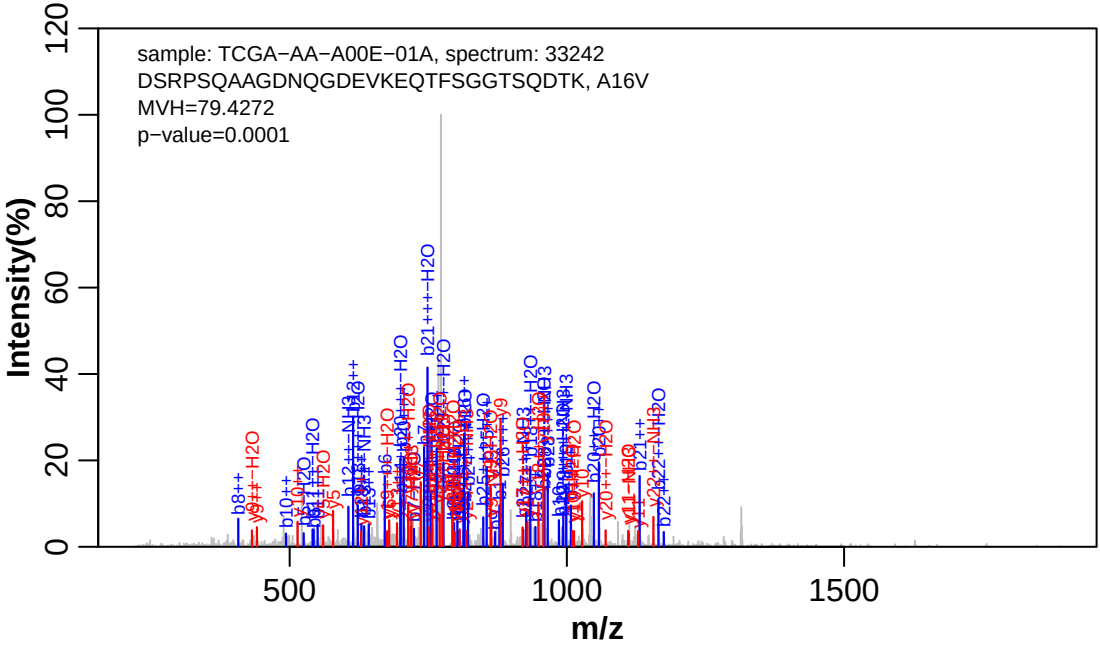

sample: TCGA−AA−A00E−01A, spectrum: 108478
DEPLHALYDNVEK, V2E
MVH=39.3581
p−value=0.0001
y11++
b2
y6
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

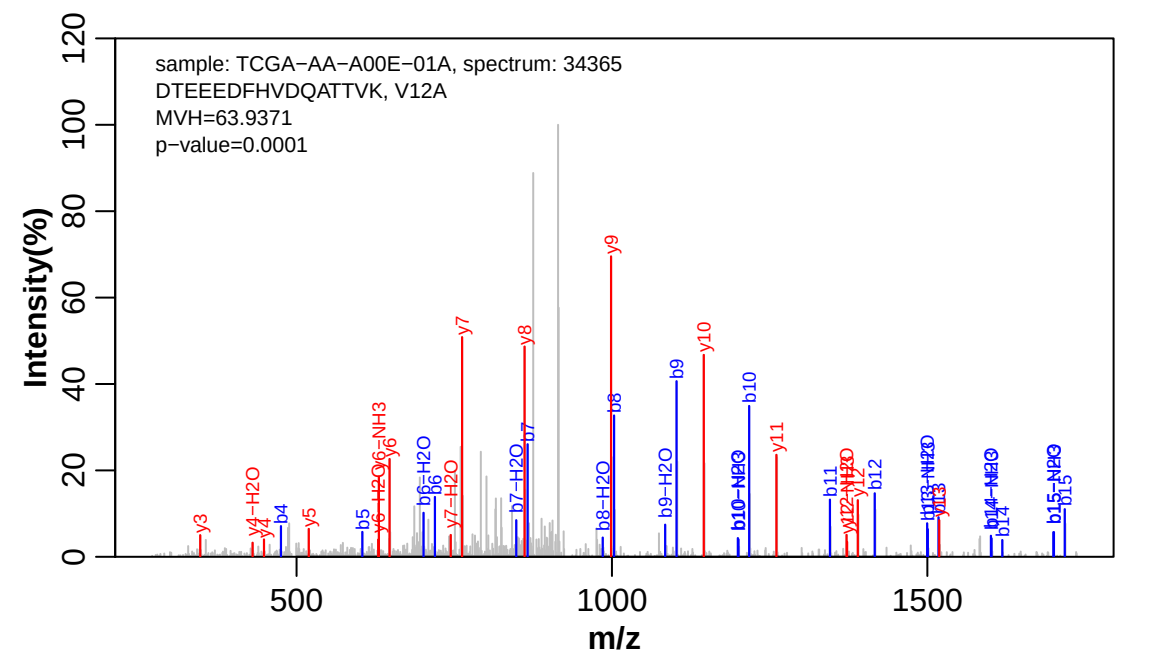

sample: TCGA−AA−A00E−01A, spectrum: 18088
DFYVVEPLAFEGTPEQK, I4V
MVH=48.3533
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3−H2O
b3
y4
b4
b5
y6−H2O
y6
b6
y7−H2O
y7
y8
b8
y9
b9
b10
y11
y12
b11−H2O
b12
b13
y14
b16

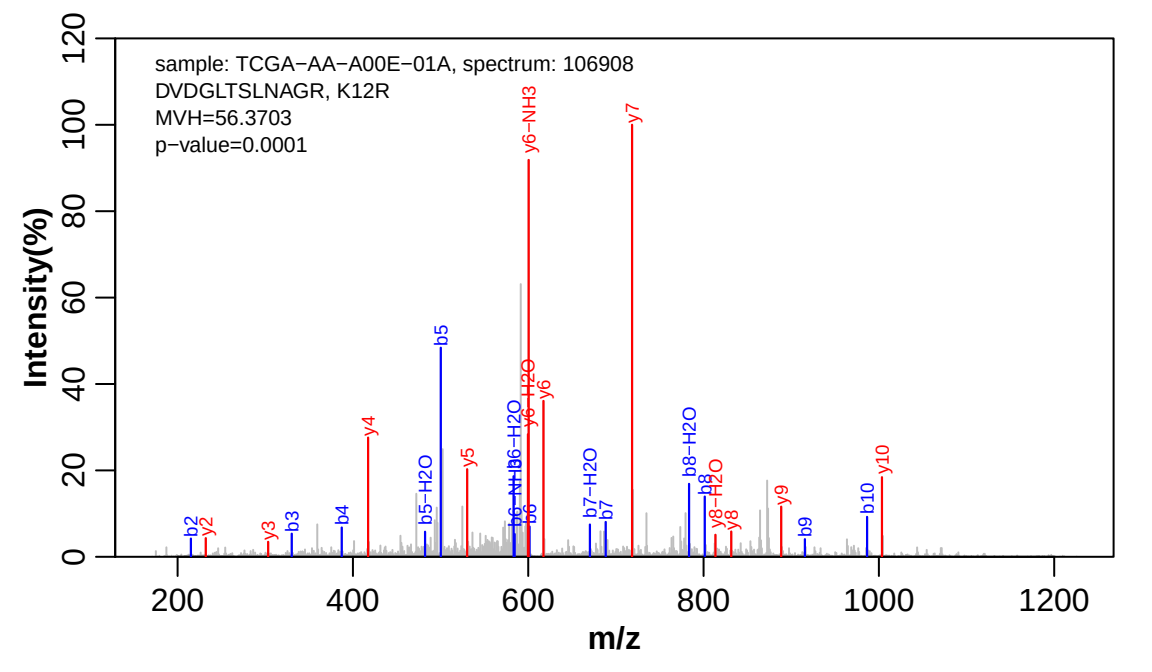

sample: TCGA−AA−A00E−01A, spectrum: 137228
DGYGFLNR, N1D
MVH=44.9486
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

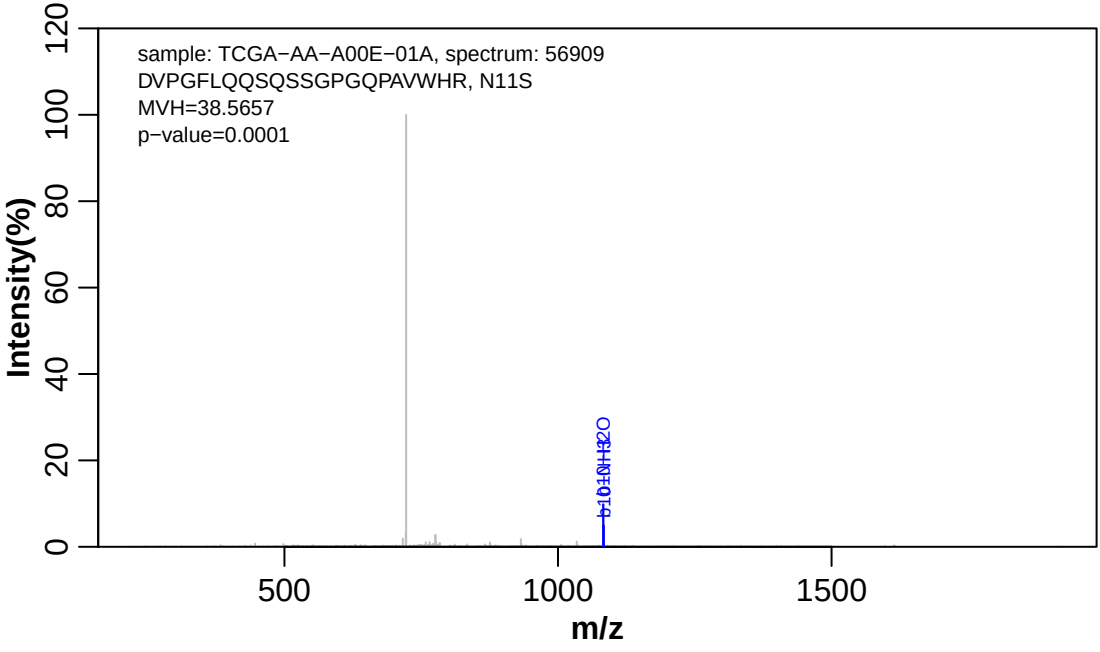

sample: TCGA−AA−A00E−01A, spectrum: 42617
DLEAHVDSANK, I6V
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
y2
y3−NH3
b3
y4
b4
y5−H2O
y5
b5
y6
b6
y7
b7
y8
y8−NH3
b8
b9
y9−NH3
y9
b10

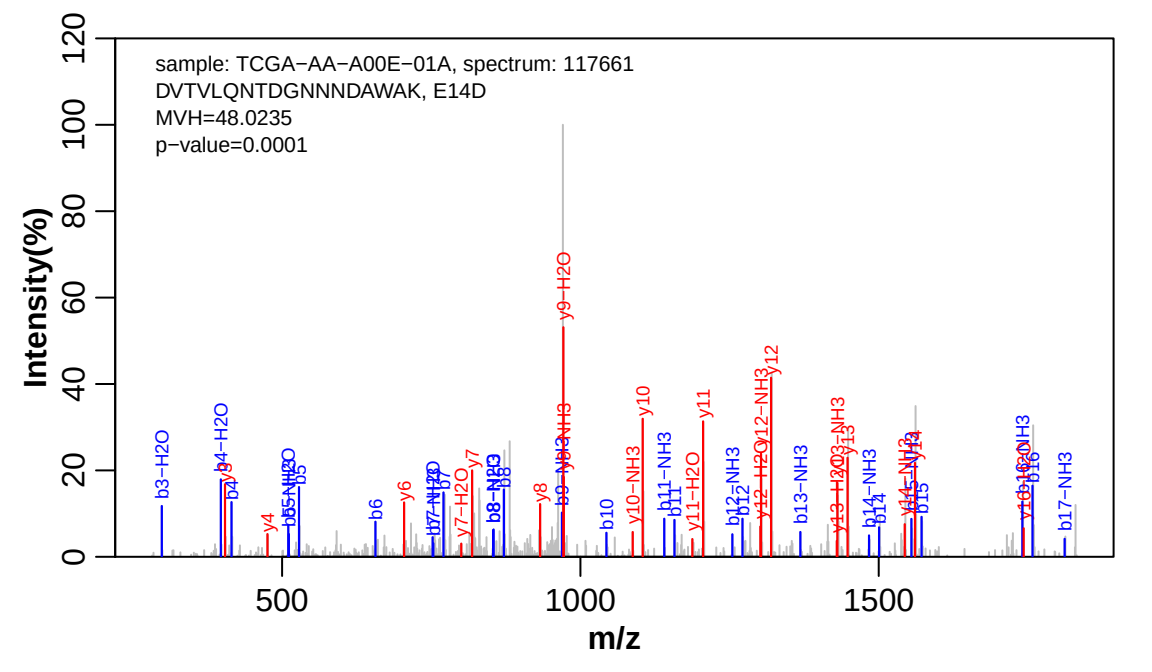

sample: TCGA−AA−A00E−01A, spectrum: 38365
DMAGAQAAAVALNEEFLK, R18K
MVH=72.4206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
y4
b6
b7−H2O
b7
y5
b8−NH3
b8
y6
b9
b10−NH3
b10−H2O
b10
y7
b11−H2O
b11
y8
y9
b12−NH3
b12
y10
b13
y11
y12
y13
b15
b16
b17

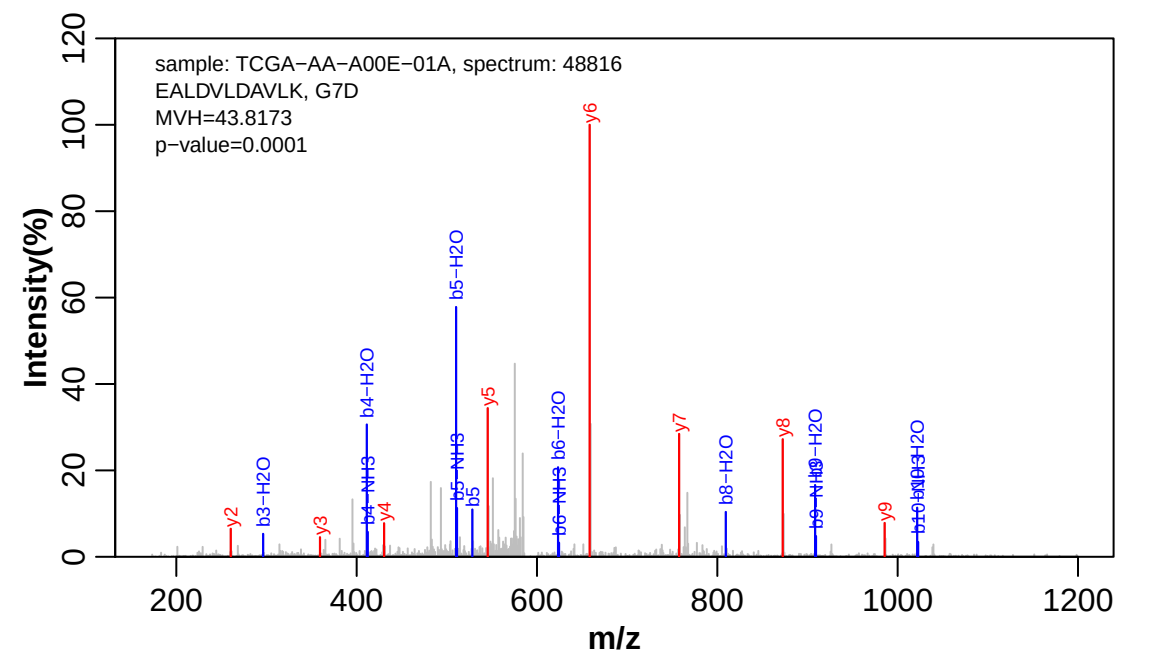

sample: TCGA−AA−A00E−01A, spectrum: 33242
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=79.4272
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

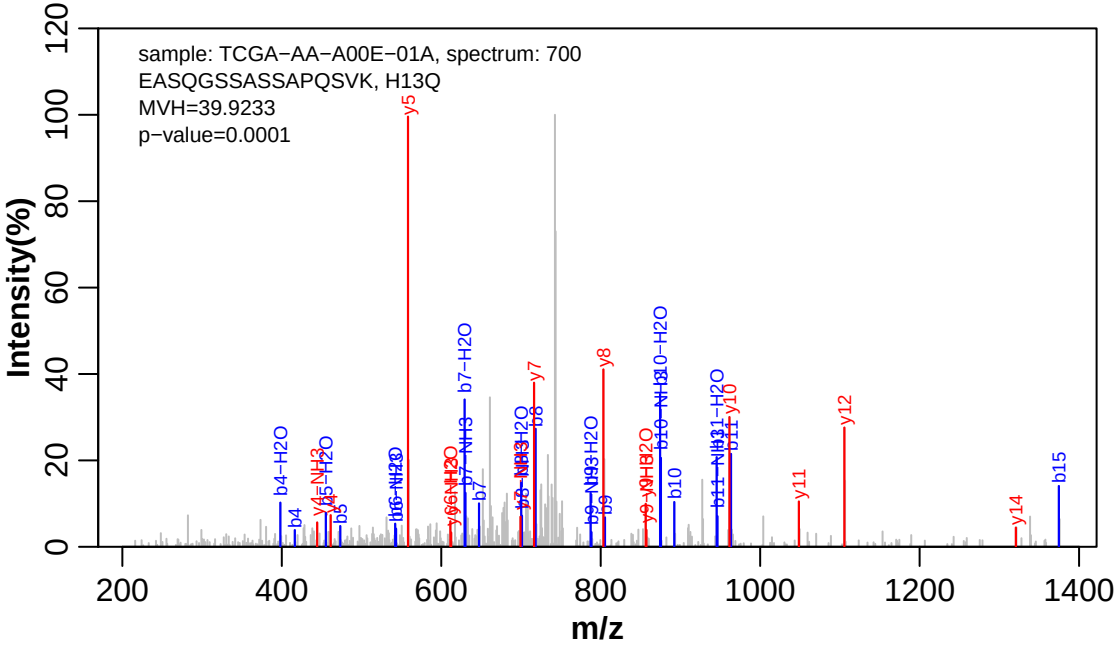

sample: TCGA−AA−A00E−01A, spectrum: 34365
DTEEEDFHVDQATTVK, V12A
MVH=63.9371
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4−H2O
y4
b4
y5
b5
y6−H2O
y6−NH3
y6
b6−H2O
b6
y7−H2O
y7
b7−H2O
y8
b7
b8−H2O
y9
b8
b9−H2O
b9
y10
b10
b10−NH3
y11
b11
y12−NH3
y12−H2O
y12
b12
b13−NH3
b13−H2O
y13
b14−NH3
b14−H2O
b14
b15−NH3
b15−H2O
b15

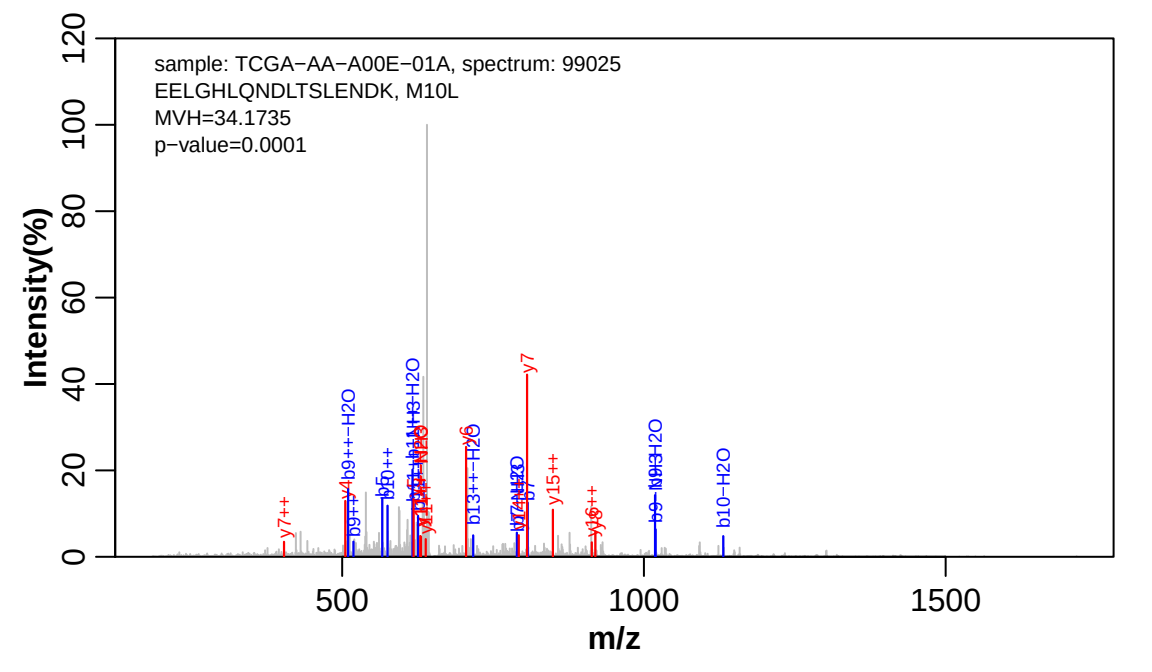

sample: TCGA−AA−A00E−01A, spectrum: 106908
DVDGLTSLNAGR, K12R
MVH=56.3703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
b5−H2O
b5
y4
y5
b6−NH3
b6−H2O
y6−H2O
y6−NH3
b6
y6
b7−H2O
b7
b8−H2O
b8
y8−H2O
y8
y7
y9
b9
b10
y10

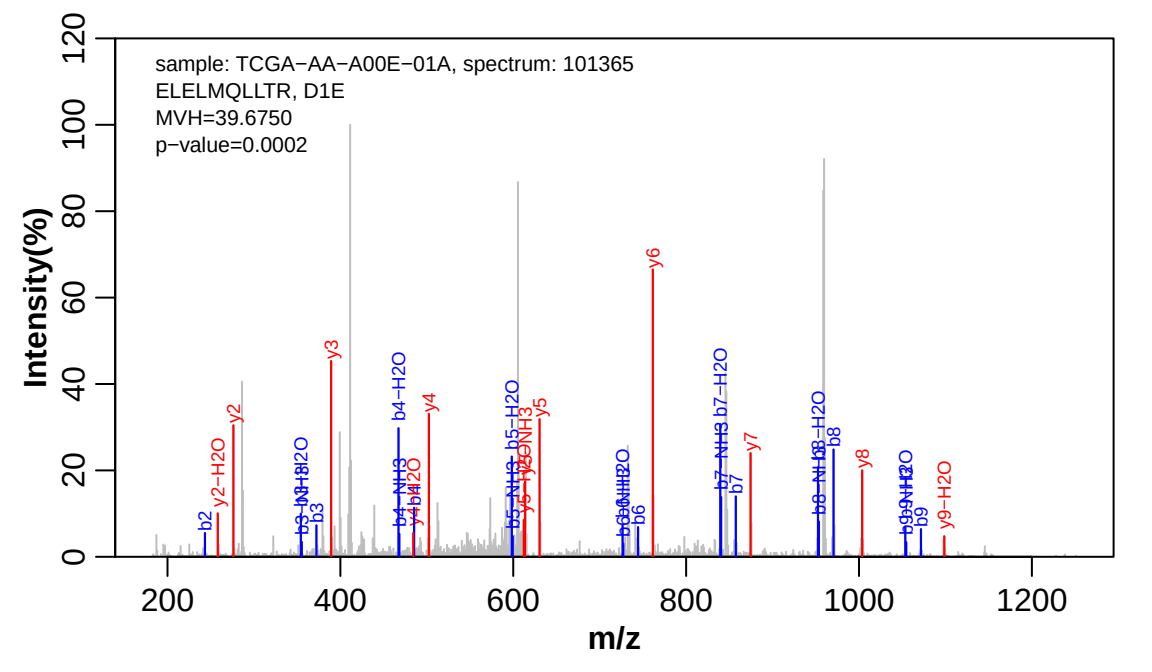

sample: TCGA−AA−A00E−01A, spectrum: 56909
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=38.5657
p−value=0.0001
b10−NH3
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

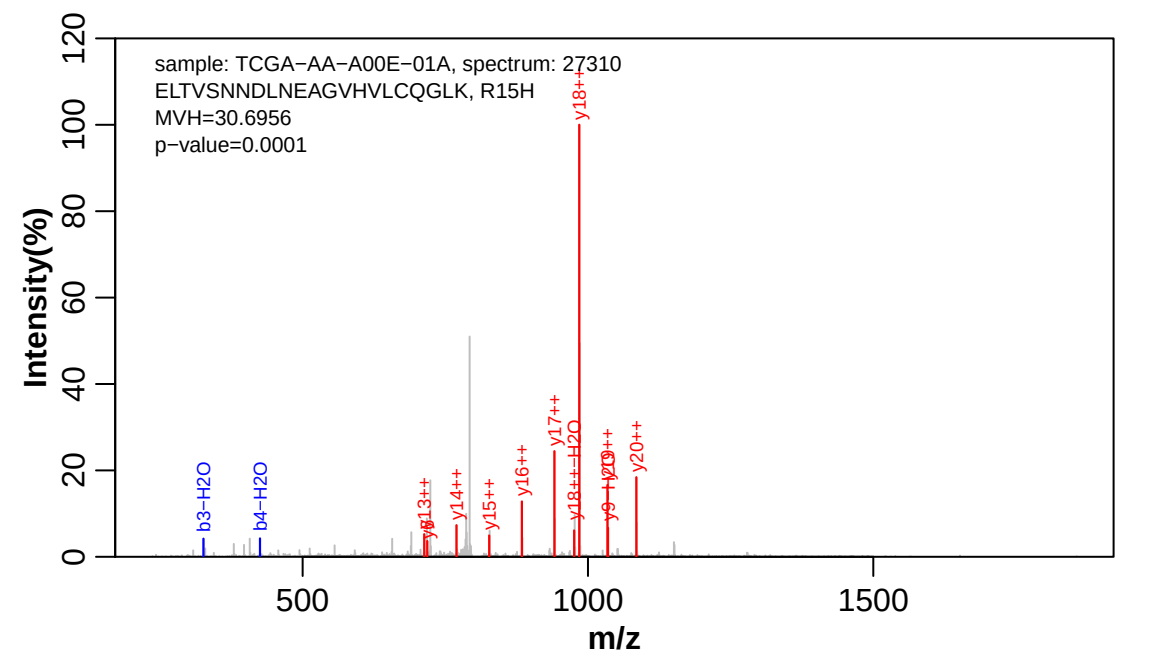

sample: TCGA−AA−A00E−01A, spectrum: 117661
DVTVLQNTDGNNNDAWAK, E14D
MVH=48.0235
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4−H2O
y4
b6
y6
y7−H2O
y8
y9−H2O
b10
y10−NH3
y10
b11−NH3
y11−H2O
y11
b12−NH3
y12−H2O
y12−NH3
y12
b13−NH3
y13−H2O
y13−NH3
b14−NH3
b17−NH3

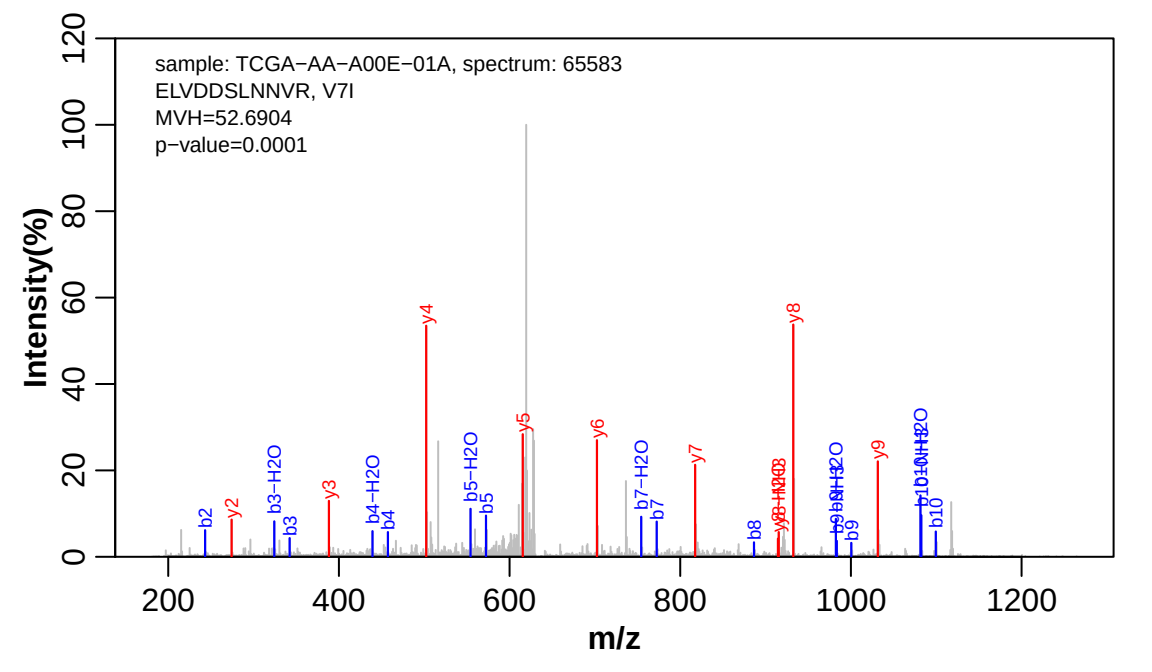

sample: TCGA−AA−A00E−01A, spectrum: 48816
EALDVLDAVLK, G7D
MVH=43.8173
p−value=0.0001
Intensity(%)
m/z
y2
b3−H2O
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−NH3
b6−H2O
y6
y7
b8−H2O
y8
b9−NH3
b9−H2O
y9
b10−NH3
b10−H2O

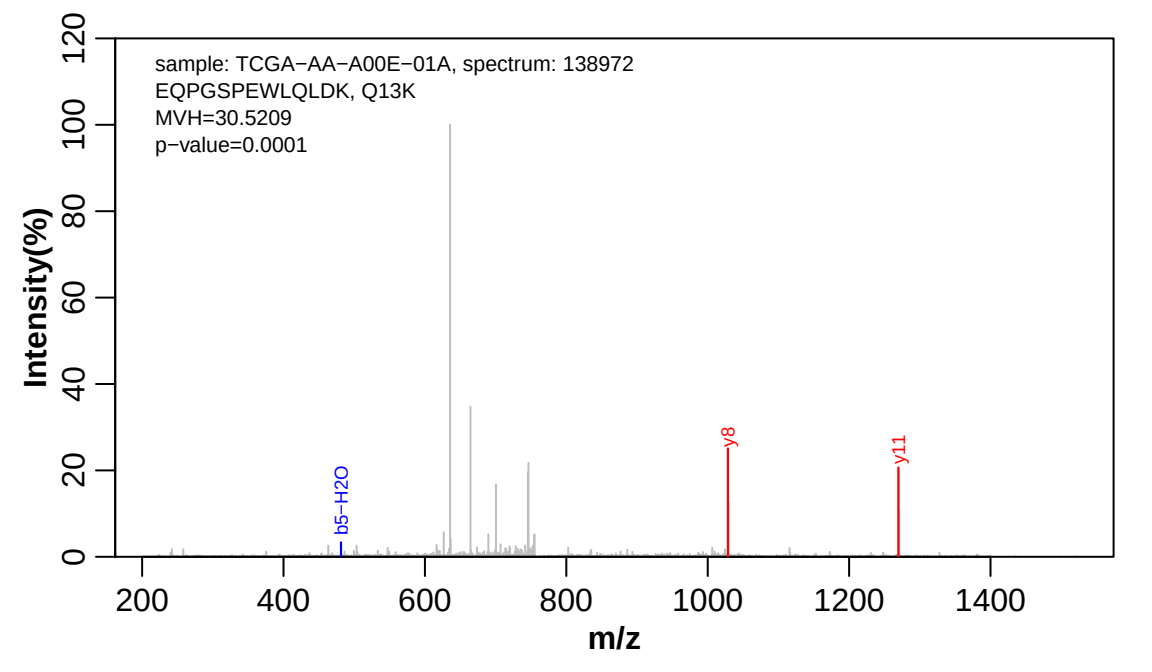

sample: TCGA−AA−A00E−01A, spectrum: 700
EASQGSSASSAPQSVK, H13Q
MVH=39.9233
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y7
y12
y11
y14
b15
b4−H2O
b7−H2O
b10−H2O
b10−NH3
b11−H2O
b7−NH3
b4
b5
b7
b9
b10
b11
y10

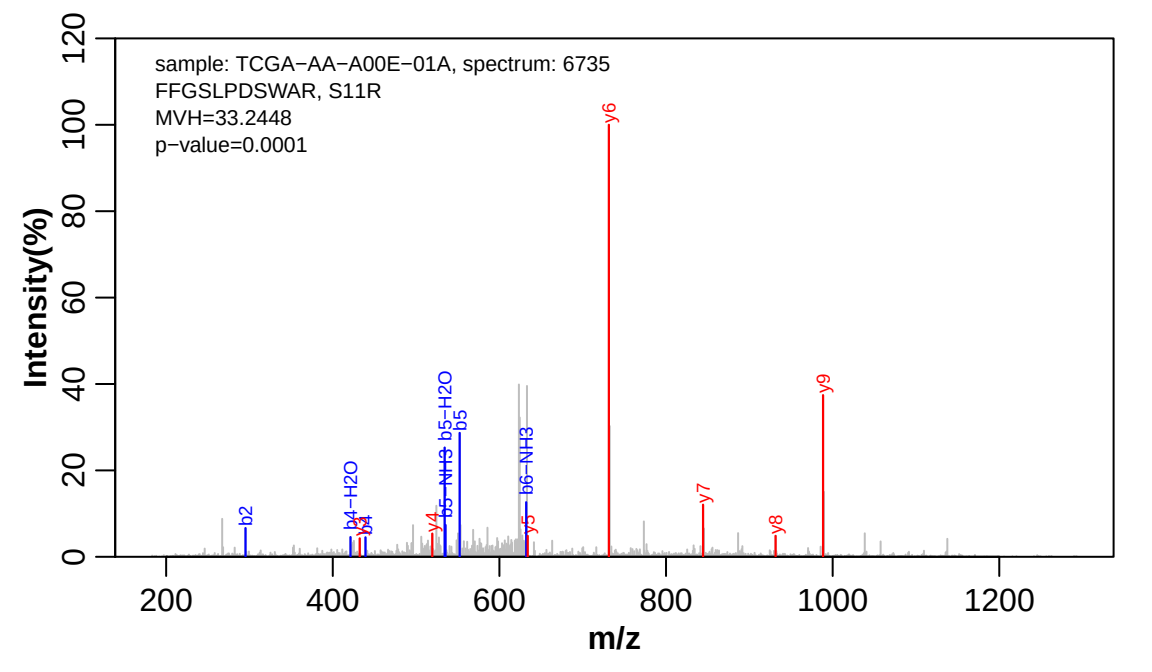

sample: TCGA−AA−A00E−01A, spectrum: 99025
EELGHLQNDLTSLENDK, M10L
MVH=34.1735
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7++
b9++−H2O
y4
b5
b9++
b10++
b13++−H2O
y7
y15++
y16++
b9−H2O
b10−H2O

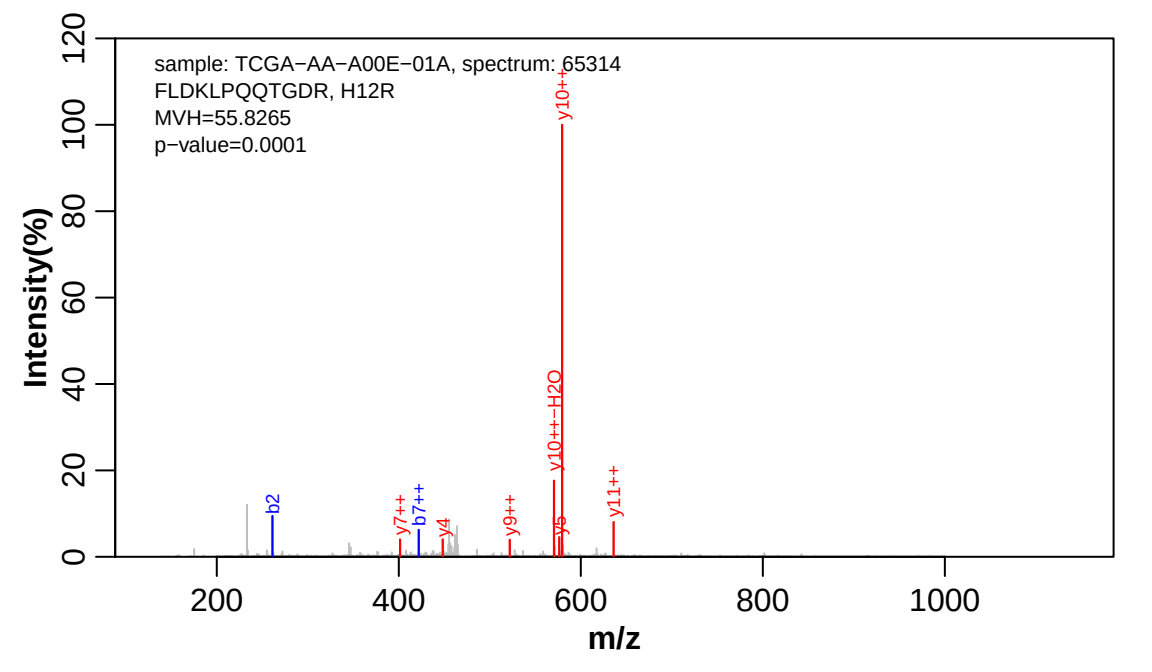

sample: TCGA−AA−A00E−01A, spectrum: 101365
ELELMQLLTR, D1E
MVH=39.6750
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−H2O
y2
b3−NH3
b3−H2O
b3
y3
b4−NH3
b4−H2O
y4−H2O
y4
b5−NH3
b5−H2O
y5−NH3
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
b9−NH3
b9−H2O
b9
y9−H2O

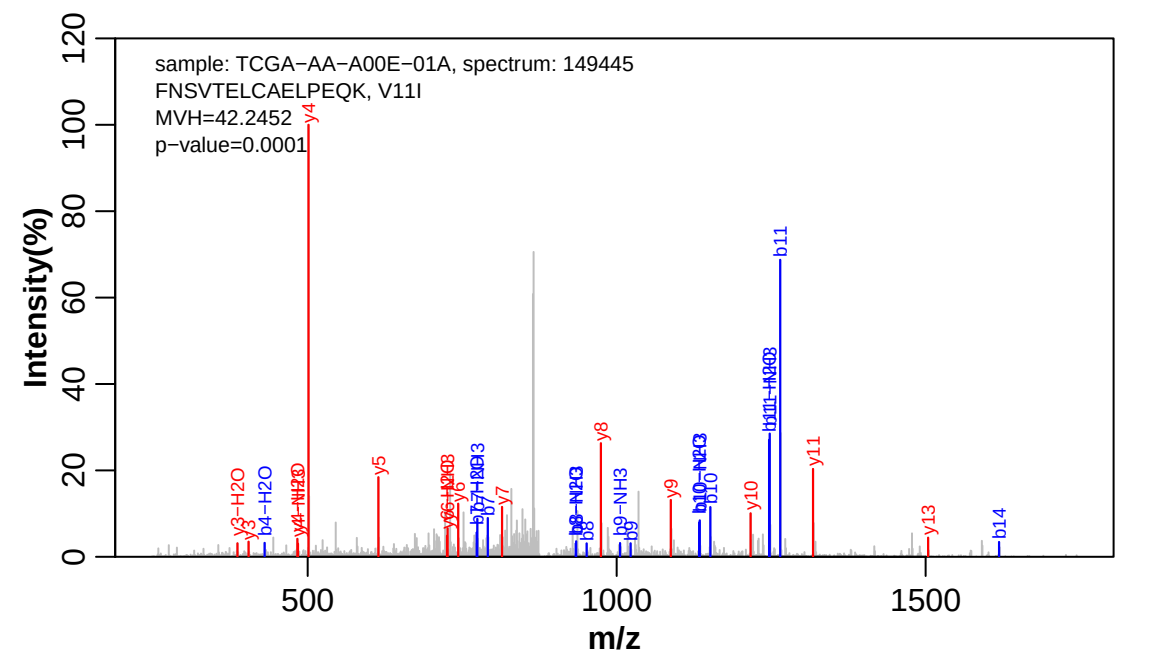

sample: TCGA−AA−A00E−01A, spectrum: 27310
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=30.6956
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b4−H2O
y13++
y14++
y15++
y16++
y17++
y18++−H2O
y18++
y9++−H2O
y20++

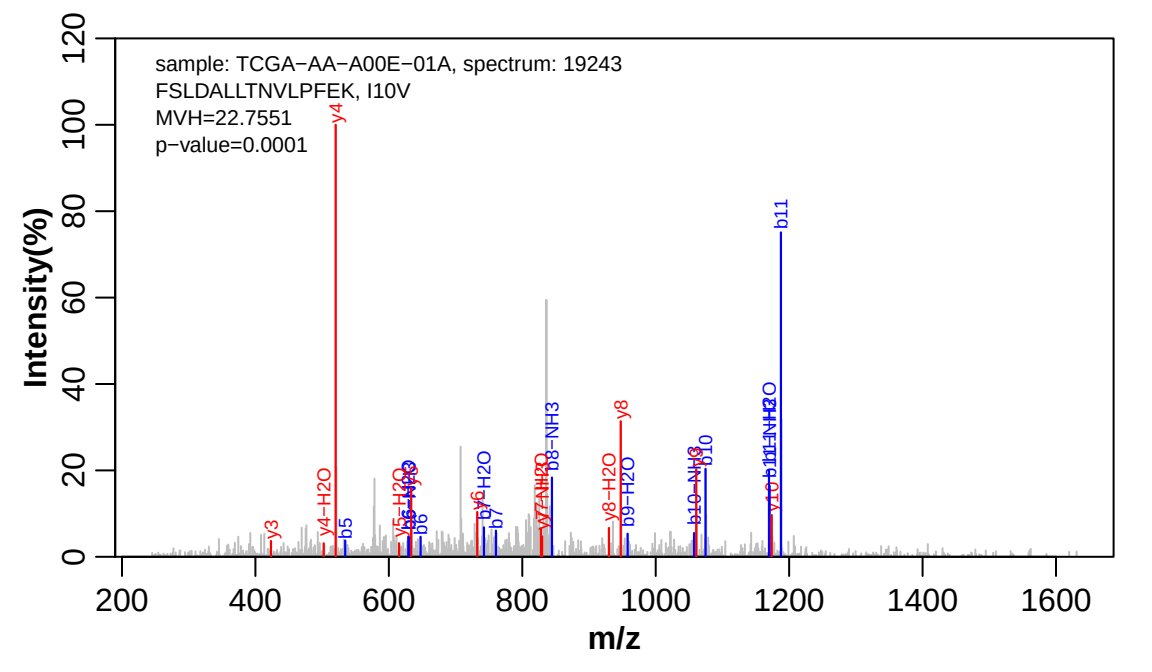

sample: TCGA−AA−A00E−01A, spectrum: 65583
ELVDDSLNNVR, V7I
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
b8
y8
y9
b10
y10

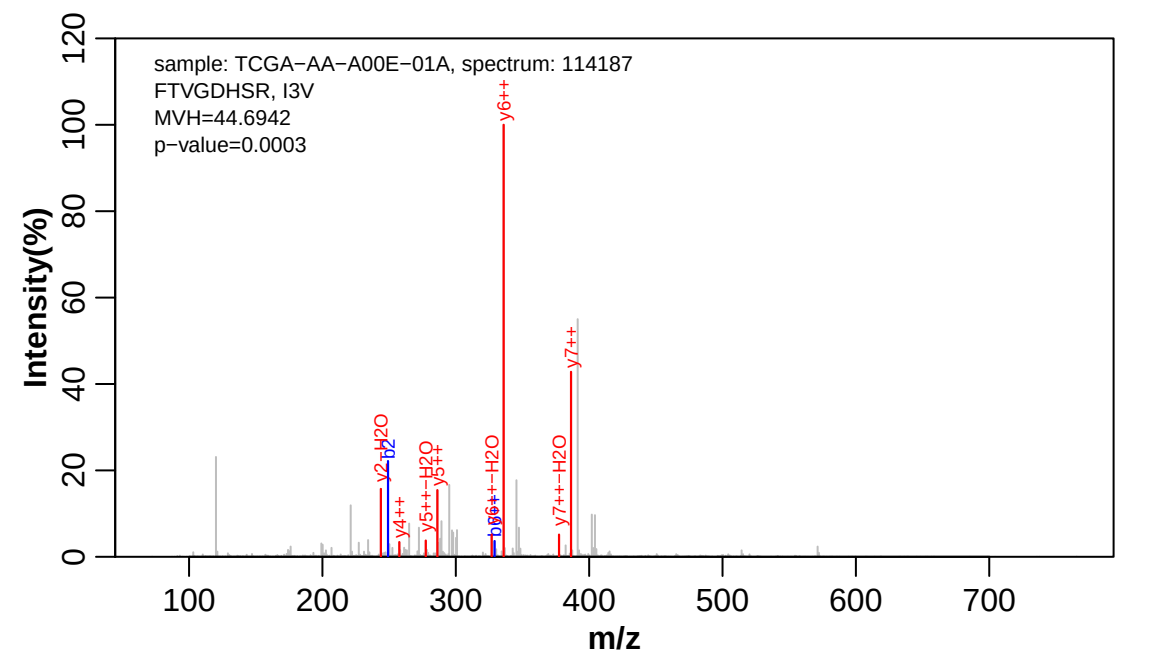

sample: TCGA−AA−A00E−01A, spectrum: 138972
EQPGSPEWLQLDK, Q13K
MVH=30.5209
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y8
y11

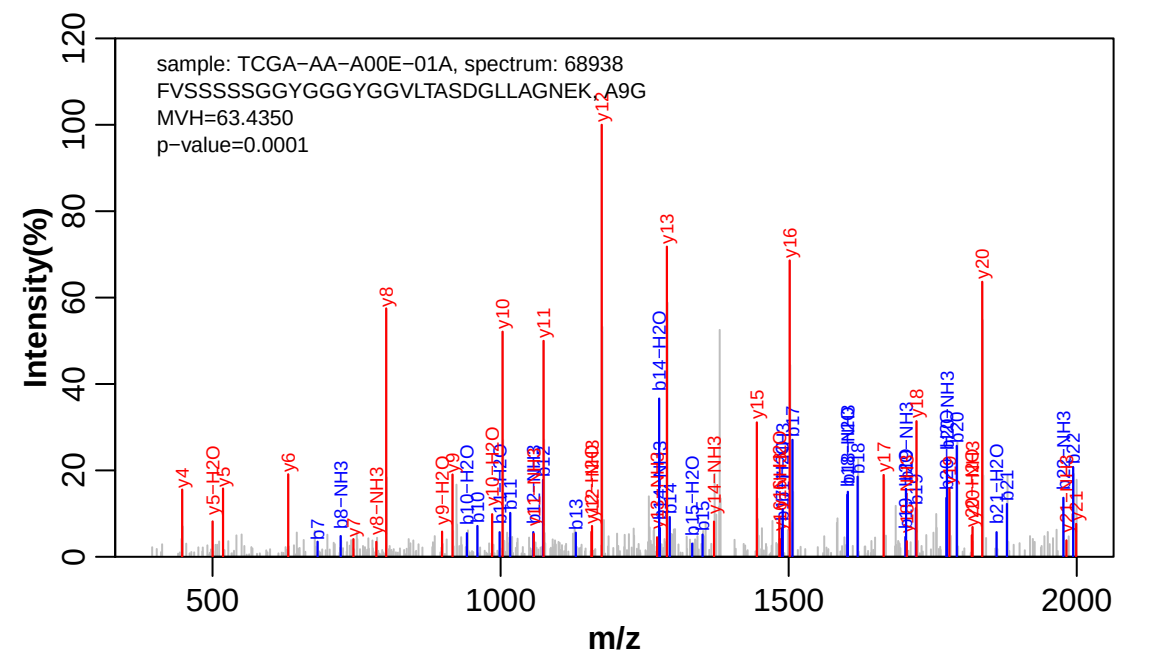

sample: TCGA−AA−A00E−01A, spectrum: 6735
FFGSLPDSWAR, S11R
MVH=33.2448
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y5
y6
y7
y8
y9

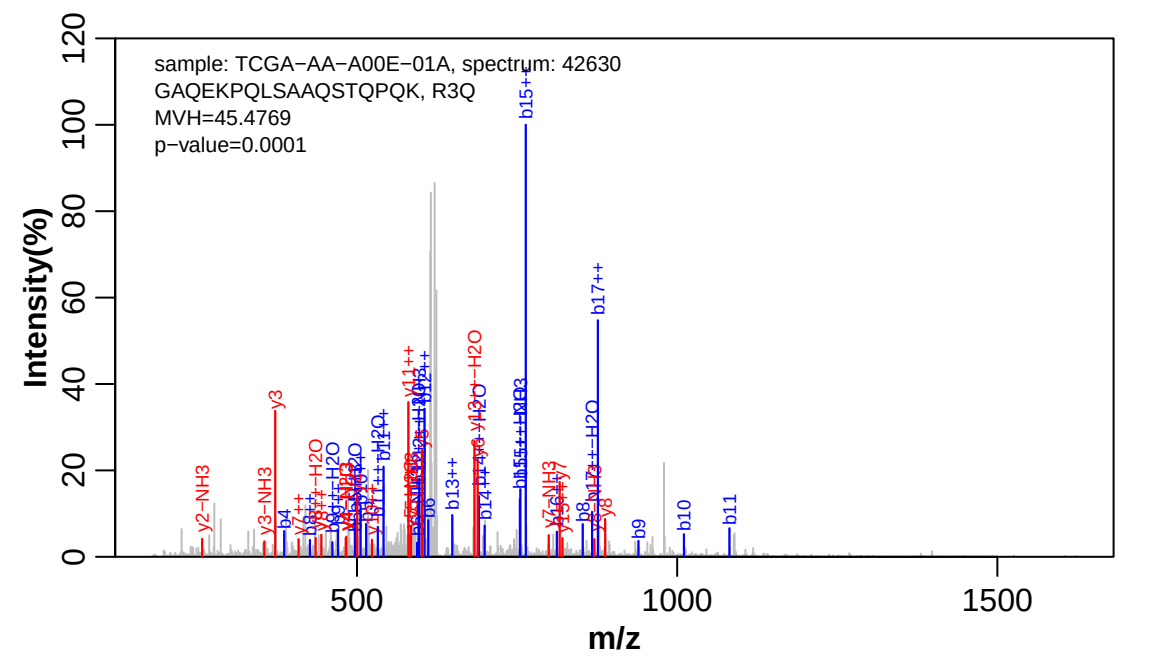

sample: TCGA−AA−A00E−01A, spectrum: 65314
FLDKLPQQTGDR, H12R
MVH=55.8265
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

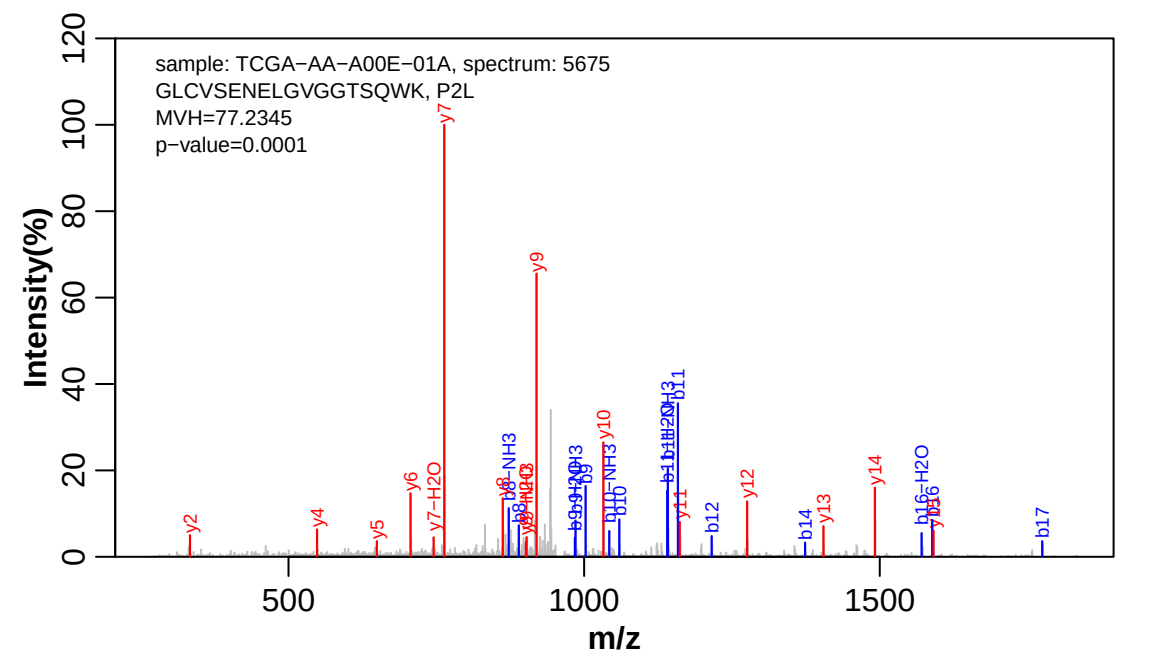

sample: TCGA−AA−A00E−01A, spectrum: 149445
FNSVTELCAELPEQK, V11I
MVH=42.2452
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y8
y9
y10
y11
y13
b11
b14
y3−H2O
b4−H2O
b9−NH3

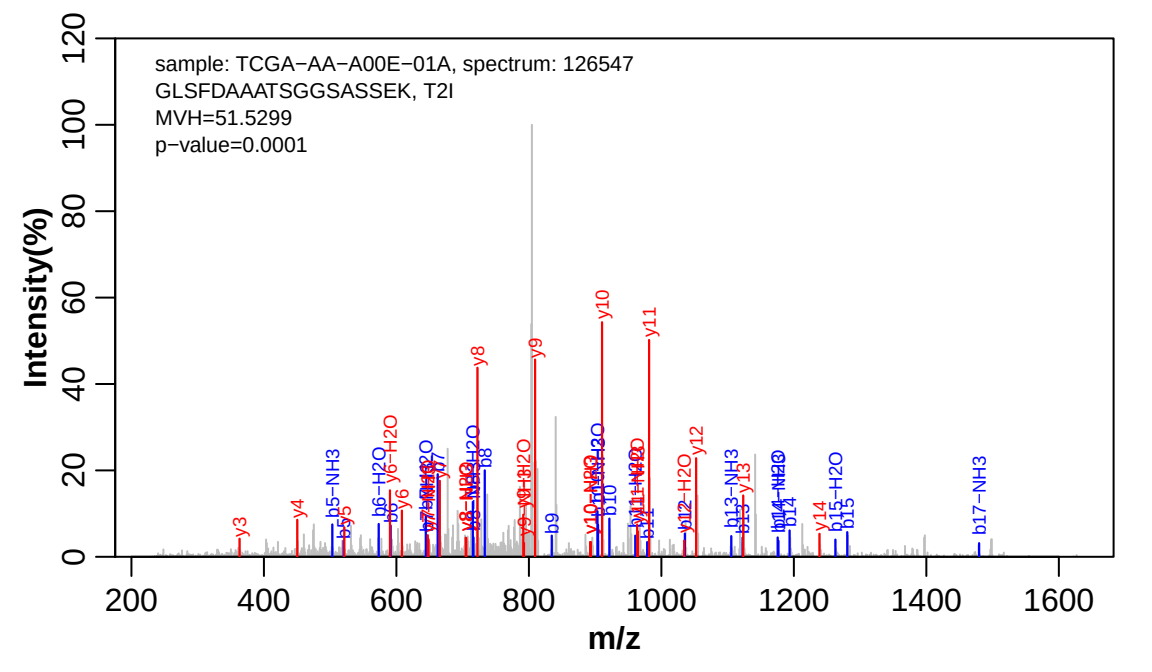

sample: TCGA−AA−A00E−01A, spectrum: 19243
FSLDALLTNVLPFEK, I10V
MVH=22.7551
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y3
y4−H2O
b5
y5−H2O
b6
y6
y6−H2O
b7
y7−NH3
y7−H2O
b8−NH3
y8
y8−H2O
b9−H2O
b10−NH3
b10
b11
b11−NH3
b11−H2O
y10
y10−NH3

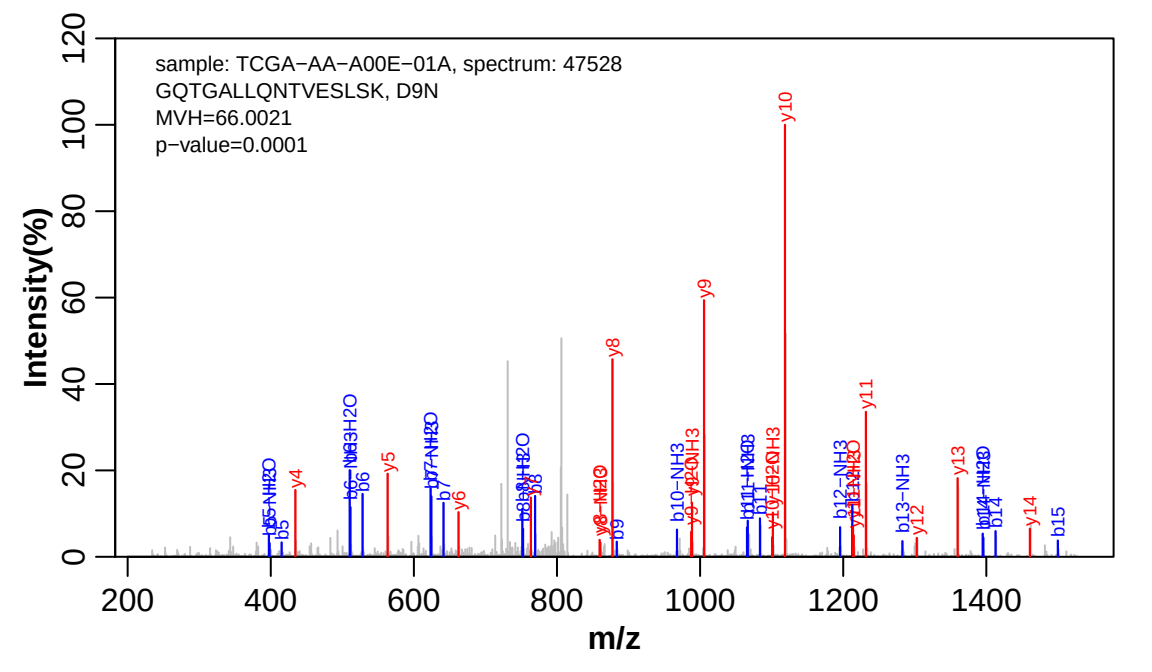

sample: TCGA−AA−A00E−01A, spectrum: 114187
FTVGDHSR, I3V
MVH=44.6942
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y2-H2O
b2
y4++
y5++−H2O
y5++
b6++−H2O
y7++−H2O

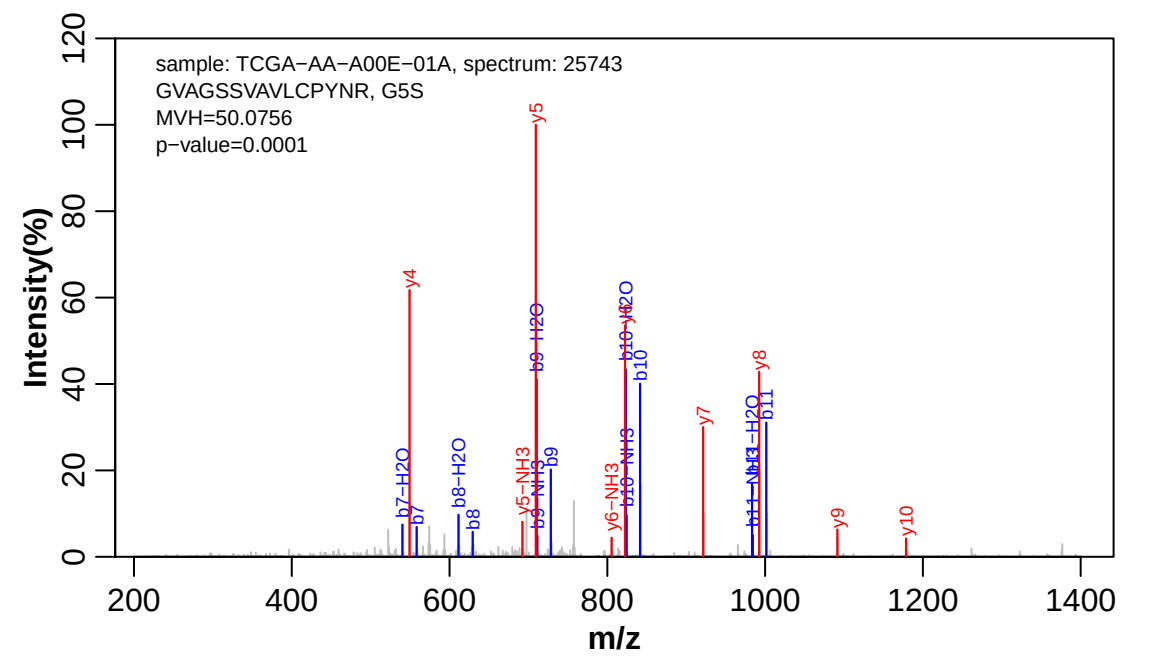

sample: TCGA−AA−A00E−01A, spectrum: 68938
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=63.4350
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y13
y16
y20
y8
y10
y11
b14−H2O
y15
y4
y5−H2O
y5
y6
b8−NH3
b7
y7
y8−NH3
y9−H2O
y9
b10−H2O
b10
b11−H2O
b11
b12−NH3
b12
b13
y14−NH3
b15−H2O
b15
y17
y18
b21−H2O
b21

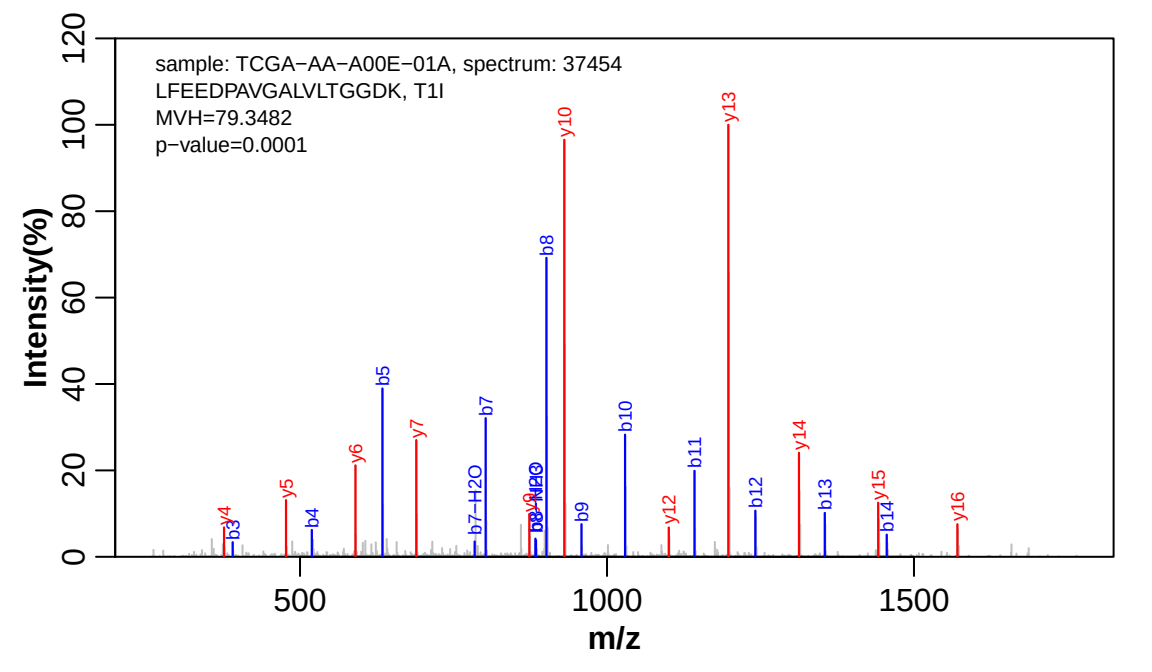

sample: TCGA−AA−A00E−01A, spectrum: 42630
GAQEKPQLSAAQSTQPQK, R3Q
MVH=45.4769
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2−NH3
y3−NH3
y3
b4
b13++
b15++
b17++
b10
b11
b9
b8
y8
y7
y6
y5
y4
y3
y2
y1
b5
b6
b7
b12
b14
b16
b18
b19
b20
b21
b22
b23
b24
b25
b26
b27
b28
b29
b30
b31
b32
b33
b34
b35
b36
b37
b38
b39
b40
b41
b42
b43
b44
b45
b46
b47
b48
b49
b50
b51
b52
b53
b54
b55
b56
b57

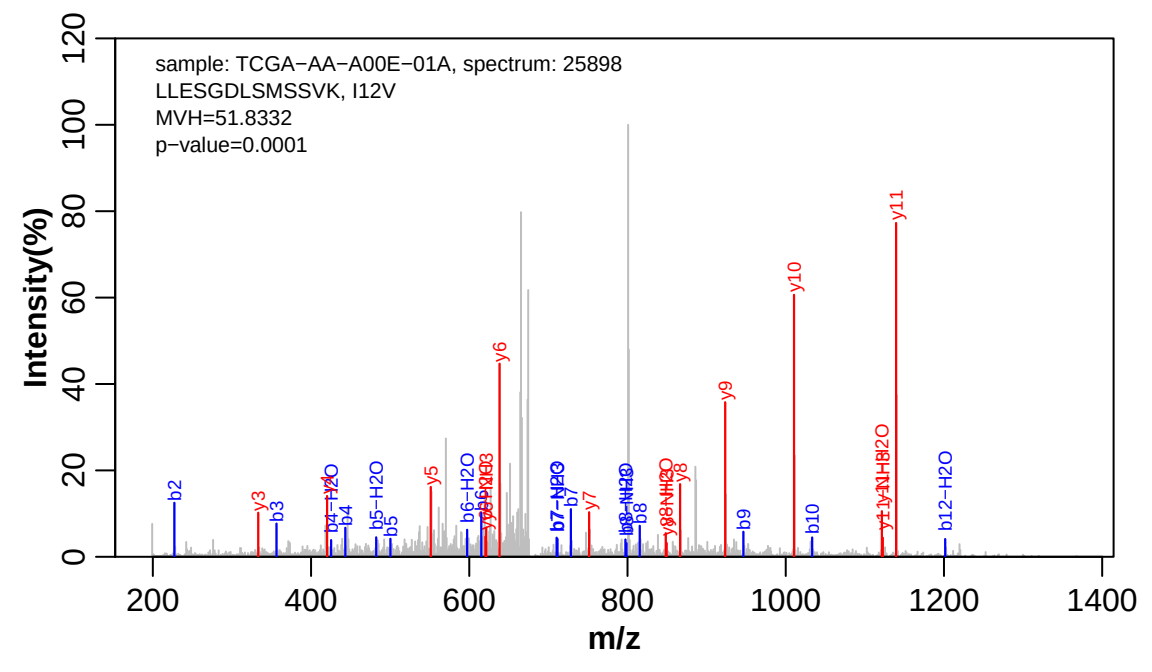

sample: TCGA−AA−A00E−01A, spectrum: 5675
GLCVSENELGVGGTSQWK, P2L
MVH=77.2345
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y4
y5
y6
y7−H2O
y7
y9
b8−NH3
y10
b10−NH3
b10
b11
y11
b12
y12
b14
y13
y14
b16−H2O
b17

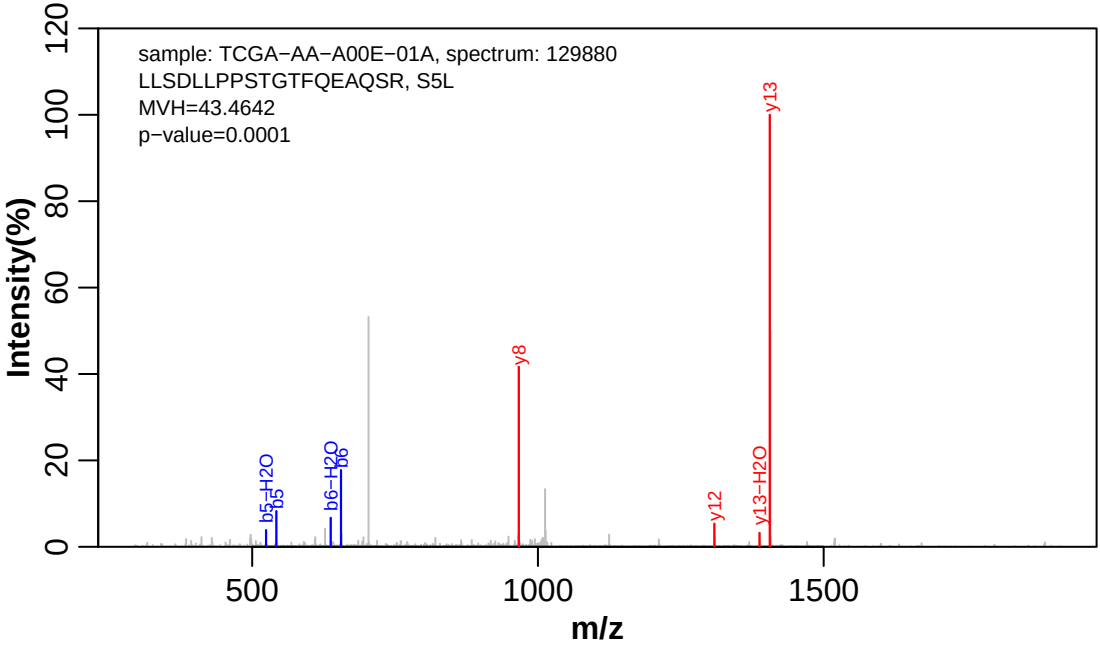

sample: TCGA−AA−A00E−01A, spectrum: 126547
GLSFDAAATSGGSASSEK, T2I
MVH=51.5299
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
b5−NH3
b5
b6−H2O
y6
y6−H2O
y8
b8
y9
y9−H2O
b9
y10
b10
y11
b11
y12
y12−H2O
b13−NH3
y13
b14
y14
b15−H2O
b15
b17−NH3

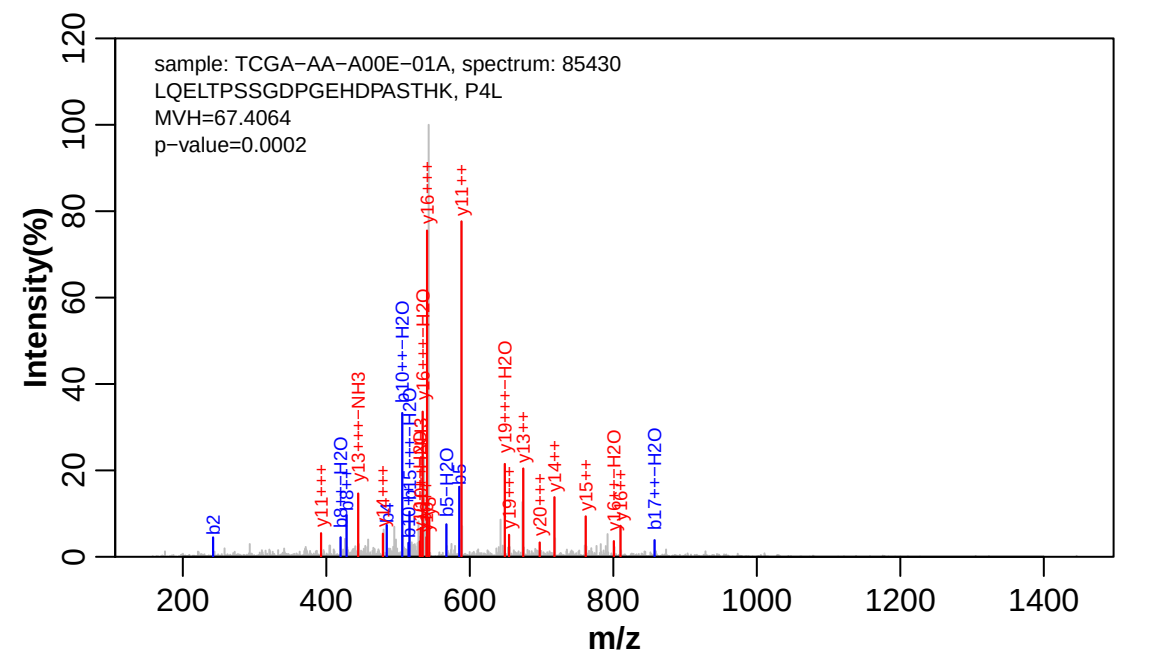

sample: TCGA−AA−A00E−01A, spectrum: 47528
GQTGALLQNTVESLSK, D9N
MVH=66.0021
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y11
y4
y5
y6
y13
y14
b15
b10−NH3
b12−NH3
b13−NH3
y12
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

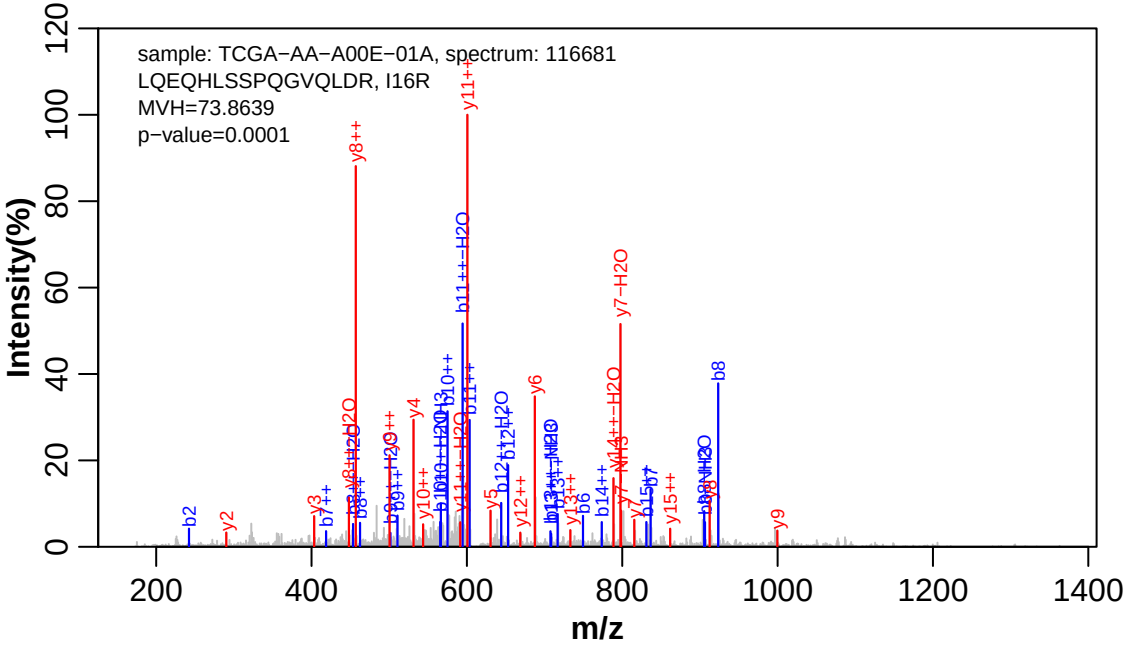

sample: TCGA−AA−A00E−01A, spectrum: 25743
GVAGSSVAVLCPYNR, G5S
MVH=50.0756
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y7
y8
b11
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3
b11−H2O
y9
y10

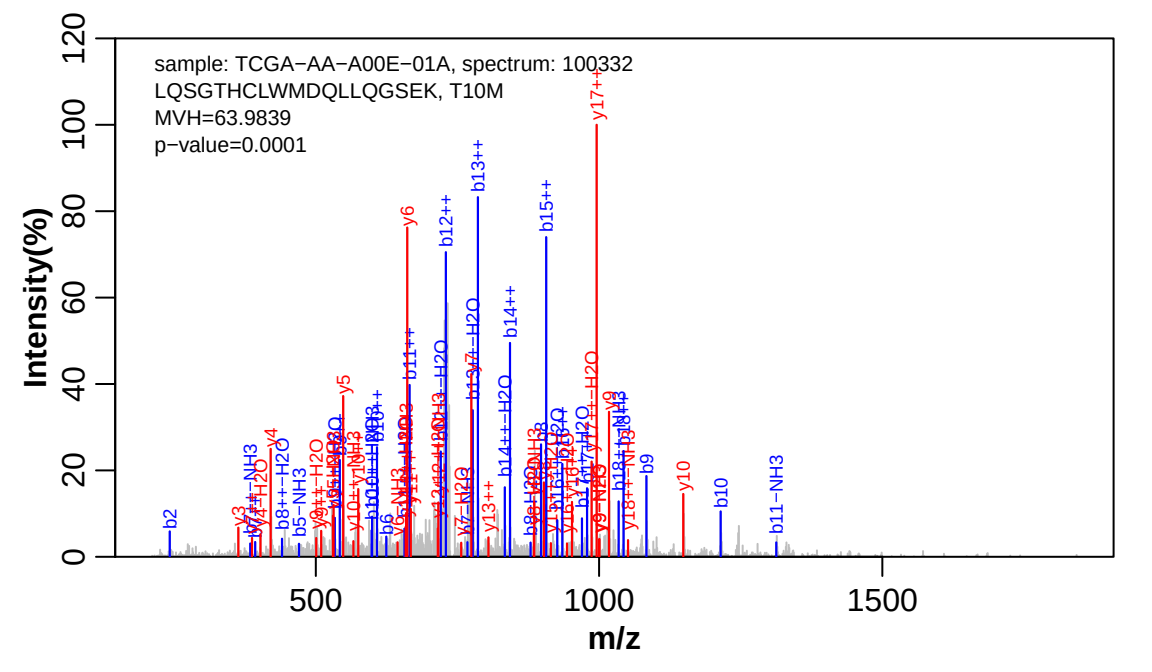

sample: TCGA−AA−A00E−01A, spectrum: 37454
LFEEDPAVGALVLTGGDK, T1I
MVH=79.3482
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7−H2O
b7
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

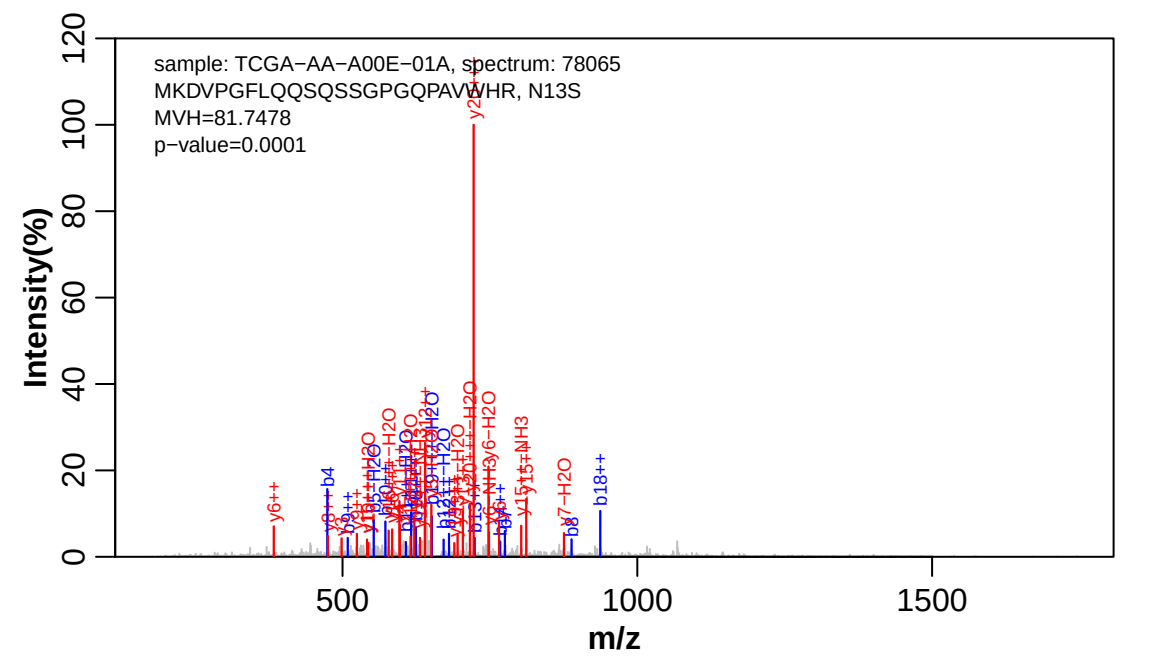

sample: TCGA−AA−A00E−01A, spectrum: 25898
LLESGDLSMSSVK, I12V
MVH=51.8332
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b3
b4
b5
b5−H2O
y5
b6−H2O
y6
b7
y7
b8
y8
y9
b9
y10
b10
y11
b12−H2O

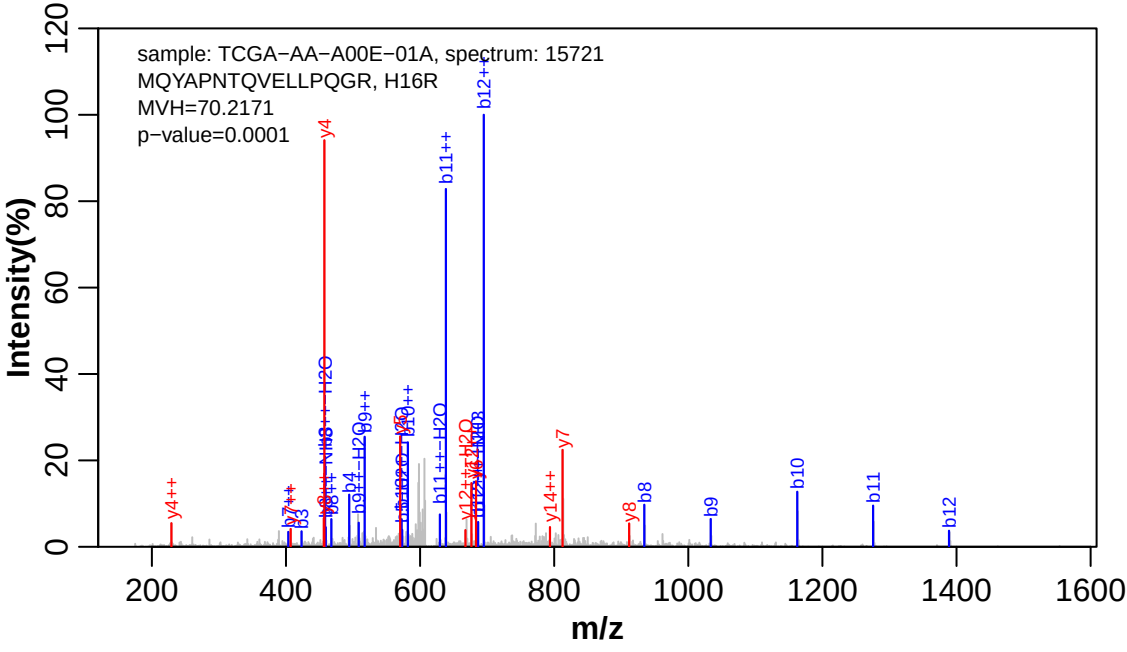

sample: TCGA−AA−A00E−01A, spectrum: 129880
LLSDLLPPSTGTFQEAQSR, S5L
MVH=43.4642
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y8
y12
y13−H2O
b6−H2O
b6
b5−H2O
b5

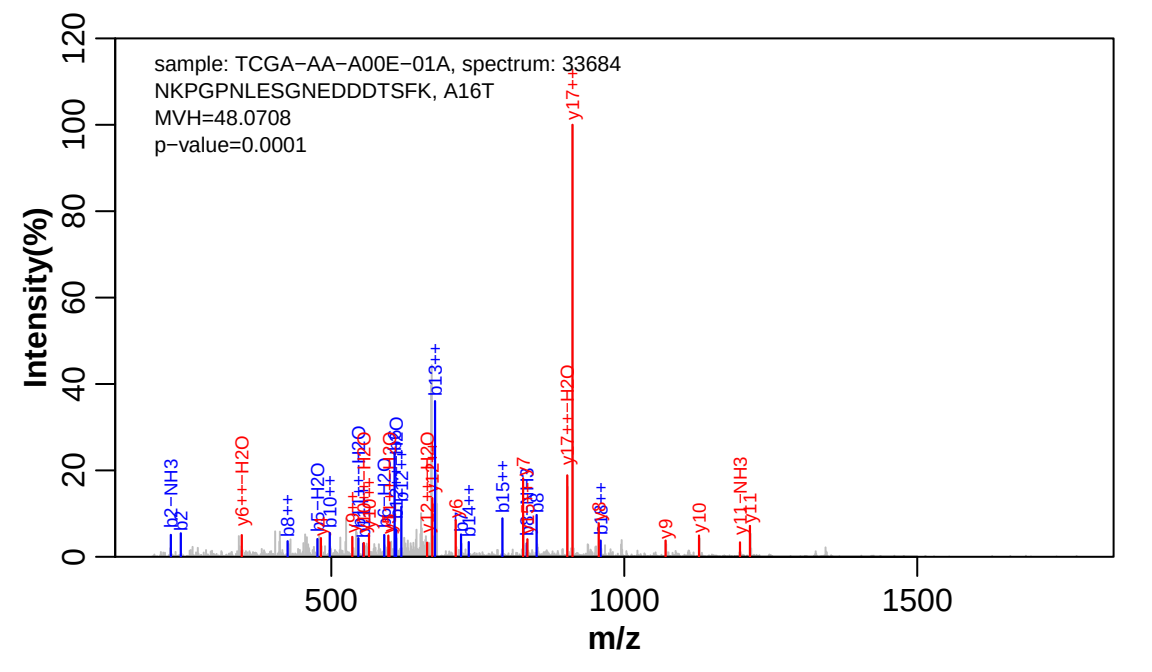

sample: TCGA−AA−A00E−01A, spectrum: 85430
LQELTPSSGDPGEHDPASTHK, P4L
MVH=67.4064
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b3++−H2O
y13+++−NH3
y4+++
b10++−H2O
y16+++−H2O
y16+++
y11++
b5−H2O
b5
y19+++−H2O
y19+++
y13++
y20+++
y14++
y15++
y16++−H2O
b17++−H2O

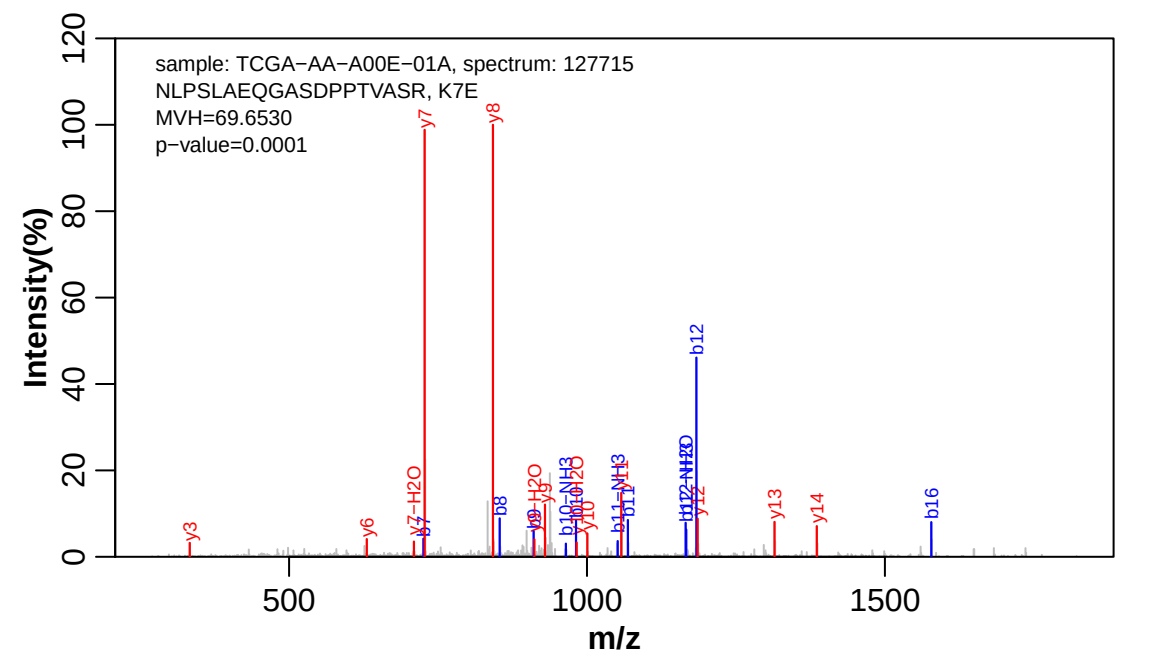

sample: TCGA−AA−A00E−01A, spectrum: 116681
LQEQHLSSPQGVQLDR, I16R
MVH=73.8639
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y3
b7++
y8++
b8++−H2O
y8++−H2O
b9++−H2O
y4
y10++
b10++−H2O
b10++
b11++
y11++
b11++−H2O
y5
b12−H2O
b12
y12++
y6
b13++−NH3
b13++
y13++
b6
b14++
y7−NH3
y7
y14++−H2O
y7−H2O
b15++
b7
y15++
b8
b8−NH3
b8−H2O
y9

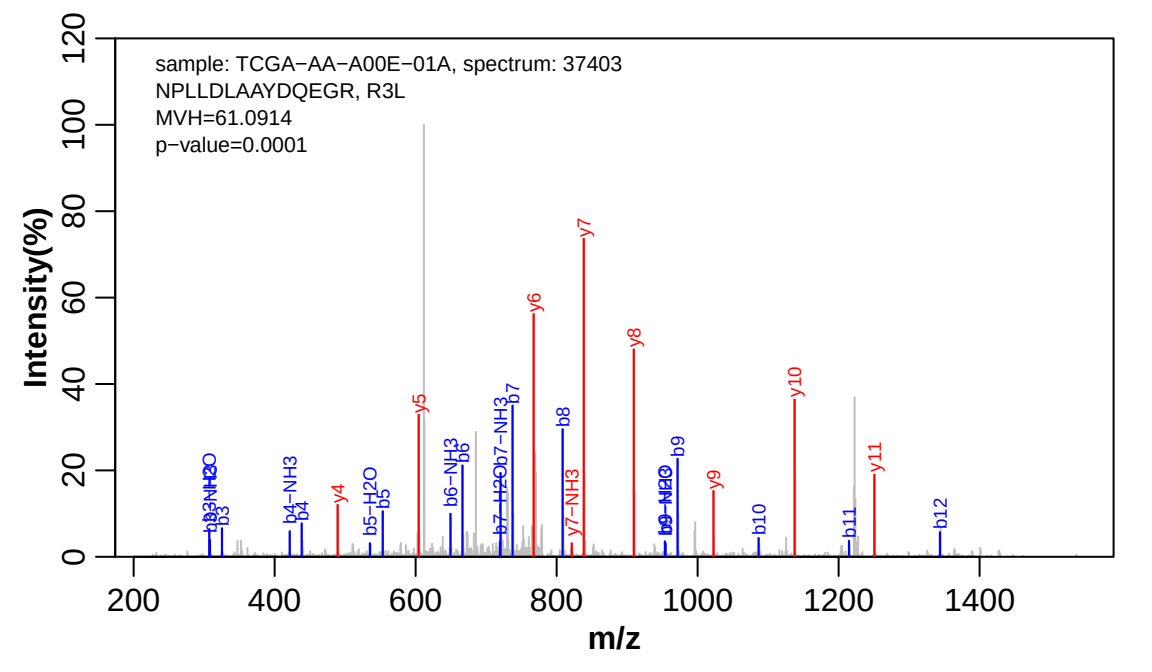

sample: TCGA−AA−A00E−01A, spectrum: 100332
LQSGTHCLWMDQLLQGSEK, T10M
MVH=63.9839
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3++−NH3
y4
b4++−H2O
b8++−H2O
b5−NH3
y5
y6
b6
b11++
b12++
b13++
b14++
b15++
y17++
y13++
y10
b10
b11−NH3
b9

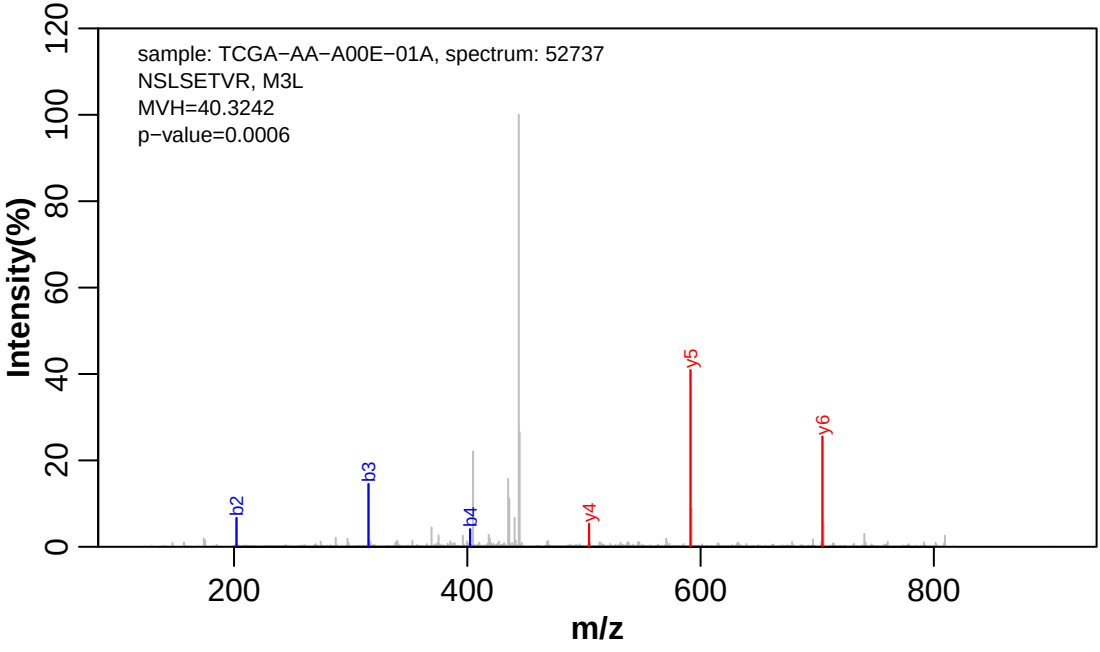

sample: TCGA−AA−A00E−01A, spectrum: 78065
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=81.7478
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2++
y6++
b4++
b18++
y15++NH3
b7−H2O

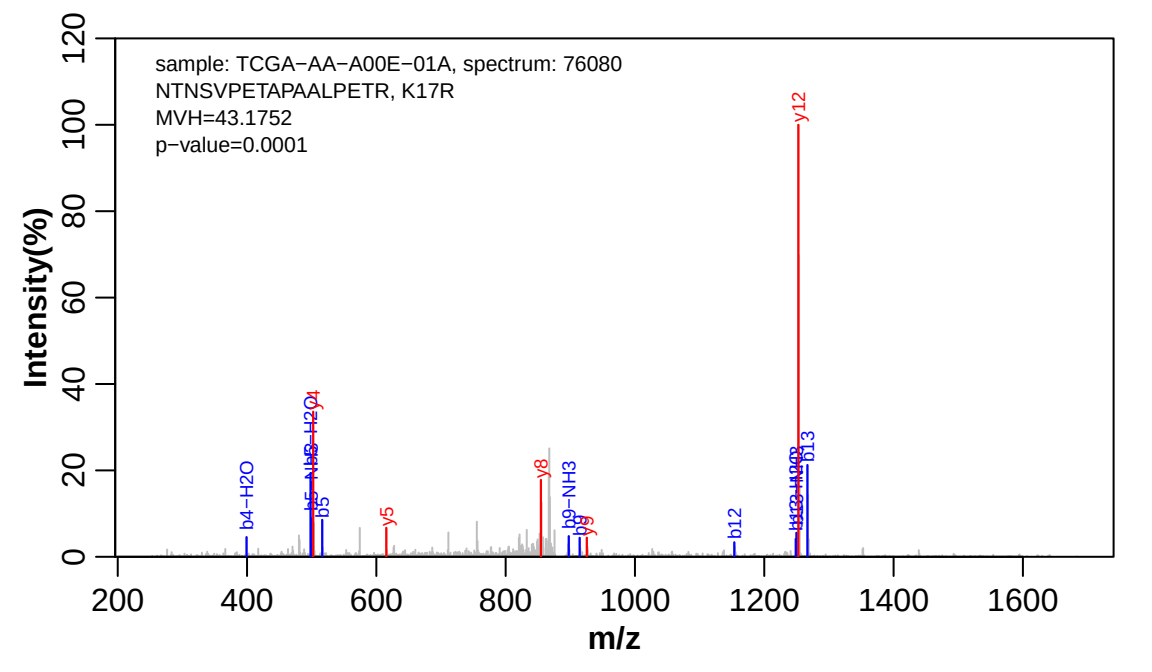

sample: TCGA−AA−A00E−01A, spectrum: 15721
MQYAPNTQVELLPQGR, H16R
MVH=70.2171
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
b12++
b11++
y4++
b11++−H2O
y7
y14++
y8
b8
b9
b10
b11
b12

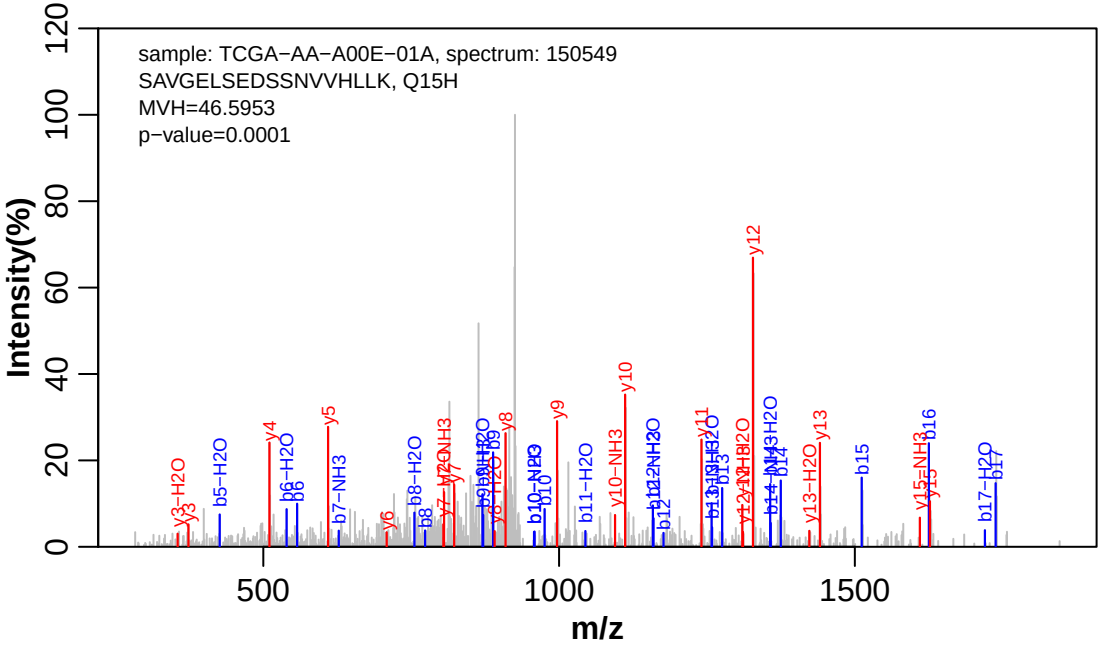

sample: TCGA−AA−A00E−01A, spectrum: 33684
NKPGPNLESGNEDDDTSFK, A16T
MVH=48.0708
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2−NH3
b2
y6++−H2O
b8++
b5−H2O
b10++
b13++
y17++−H2O
y17++
b15++
b8
y9
y10
y11−NH3
y11

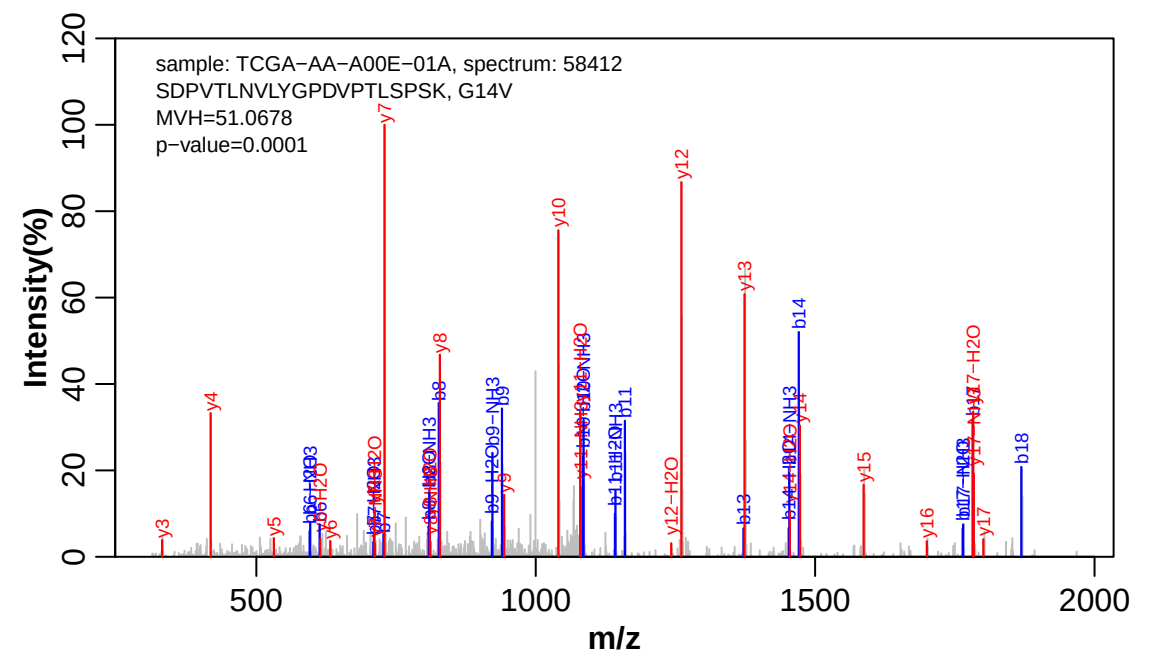

sample: TCGA−AA−A00E−01A, spectrum: 127715
NLPSLAEQGASDPPTVASR, K7E
MVH=69.6530
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y6
y7−H2O
y7
b8
y8
b10−NH3
b10
y10
b11−NH3
b11
b12
y12
y13
y14
b16

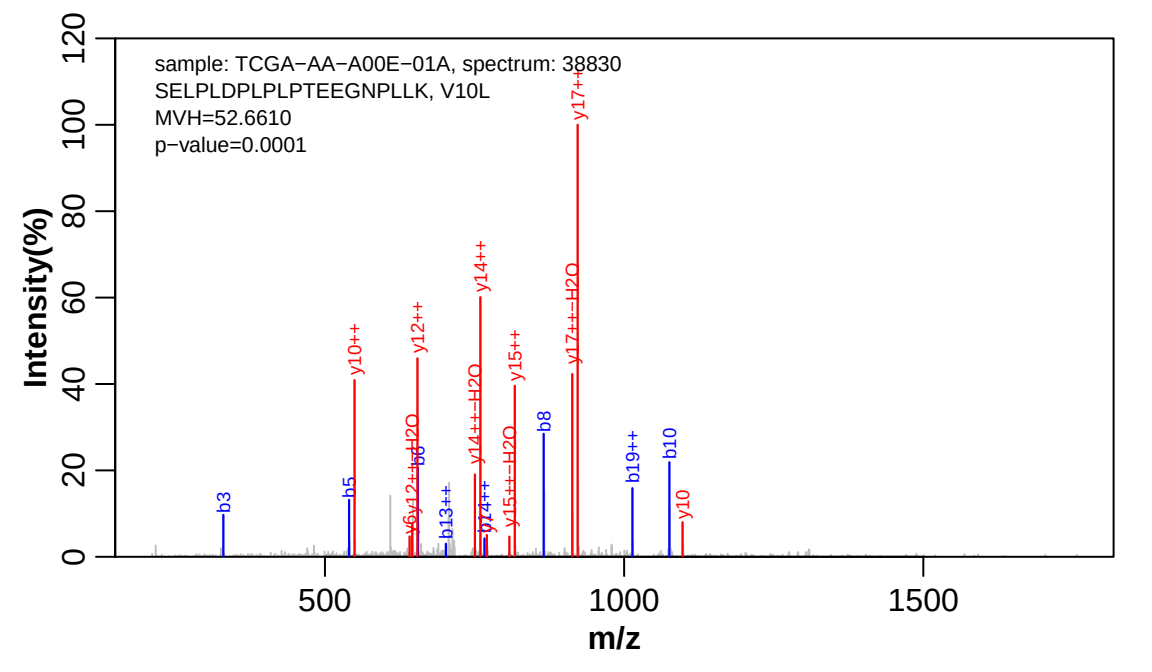

sample: TCGA−AA−A00E−01A, spectrum: 37403
NPLLDLAAYDQEGR, R3L
MVH=61.0914
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y8
y5
y10
b8
b7
b7−NH3
b6
b6−NH3
y11
y9
b9
y4
b4−NH3
b5−H2O
b5
b4
b3
b10
b11
b12

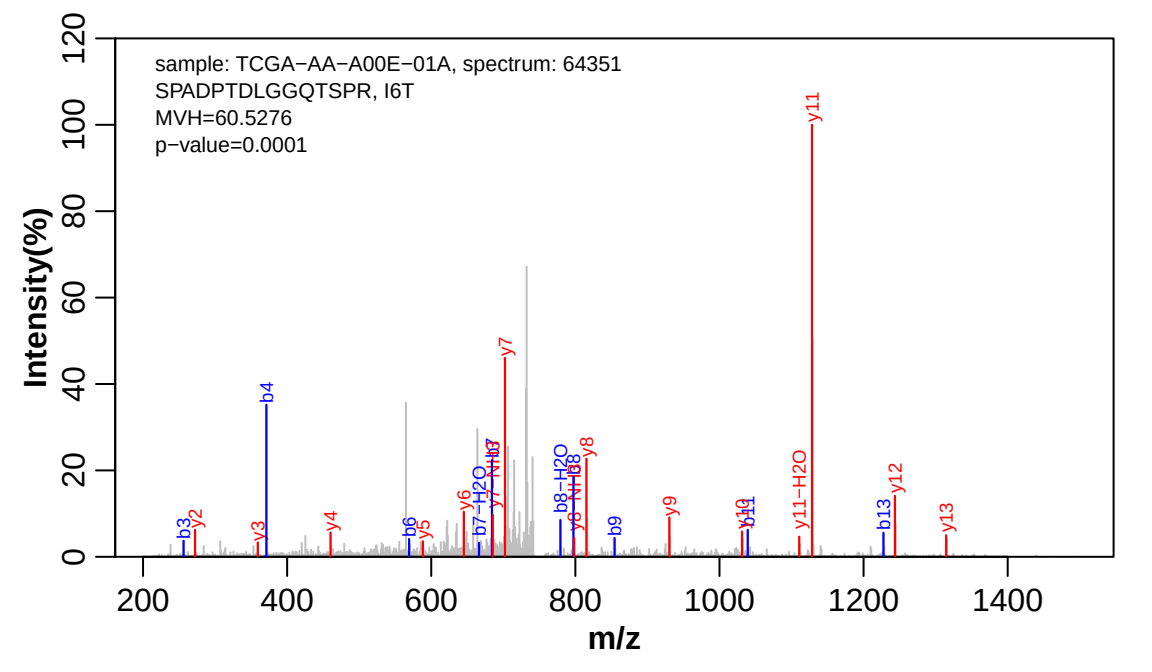

sample: TCGA−AA−A00E−01A, spectrum: 52737
NSLSETVR, M3L
MVH=40.3242
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
b4
y4
y5
y6

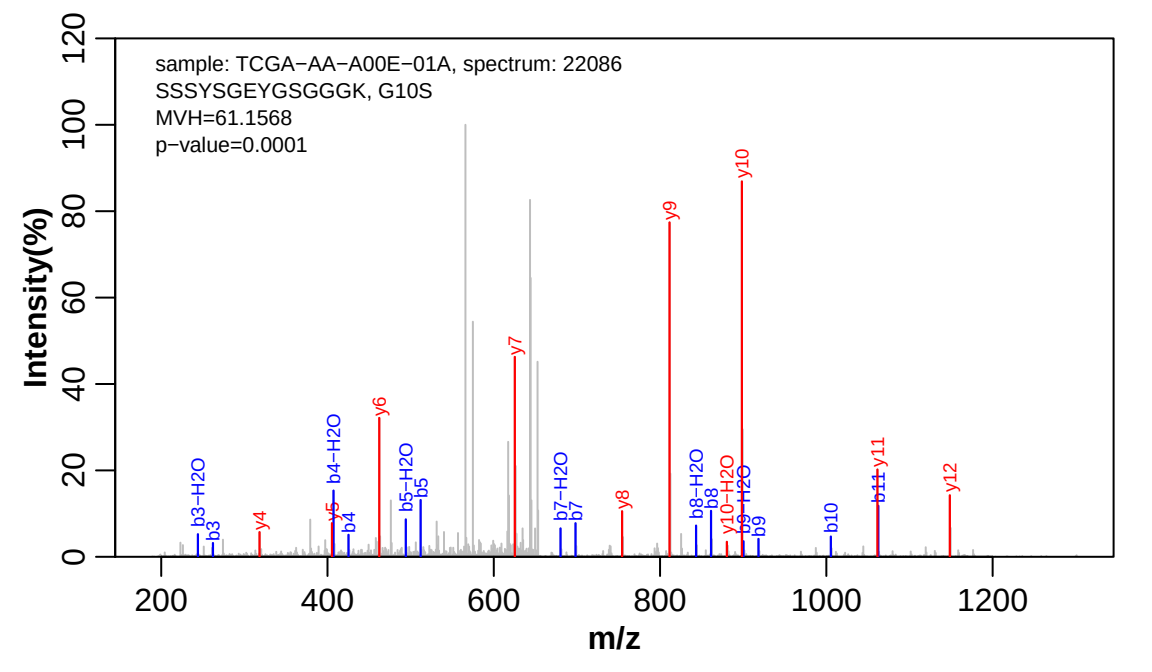

sample: TCGA−AA−A00E−01A, spectrum: 76080
NTNSVPETAPAALPETR, K17R
MVH=43.1752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4−H2O
y5
y8
b9−NH3
y12
b13
b12

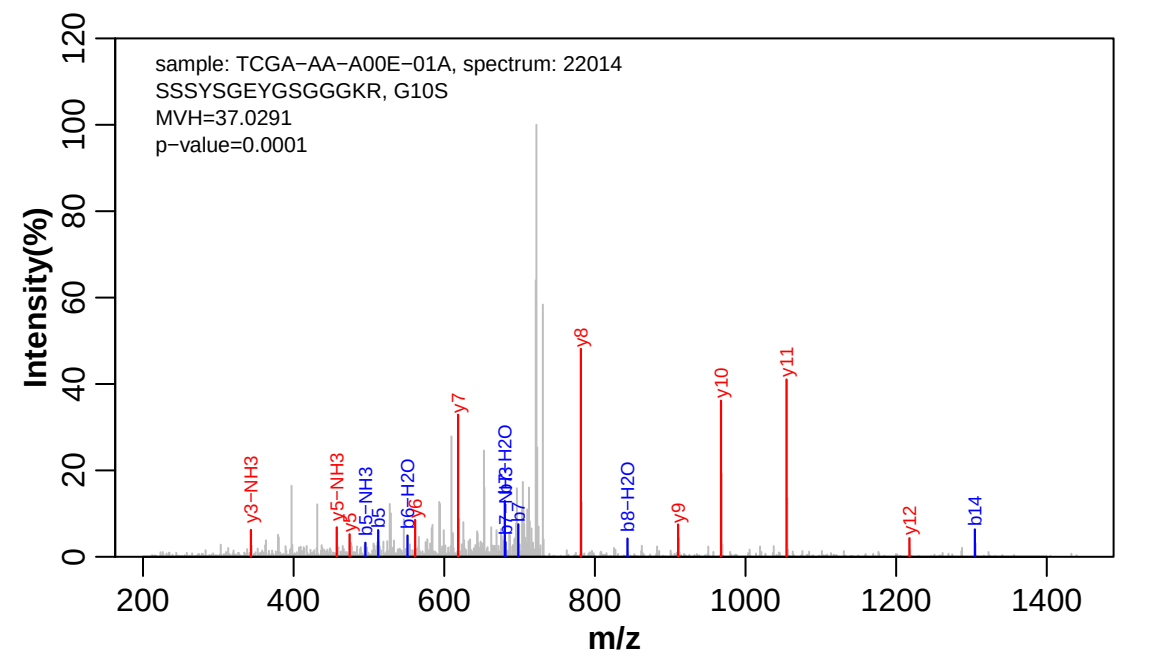

sample: TCGA−AA−A00E−01A, spectrum: 150549
SAVGELSEDSSNVVHLLK, Q15H
MVH=46.5953
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3−H2O
y3
b5−H2O
y4
b6−H2O
b6
y5
b7−NH3
y6
b8
b8−H2O
y7−NH3
y7
y8
y9
b10
b11−H2O
y10−NH3
y10
y11
b13
y12
b14
y13−H2O
y13
b15
y15−NH3
b16
b17−H2O
b17

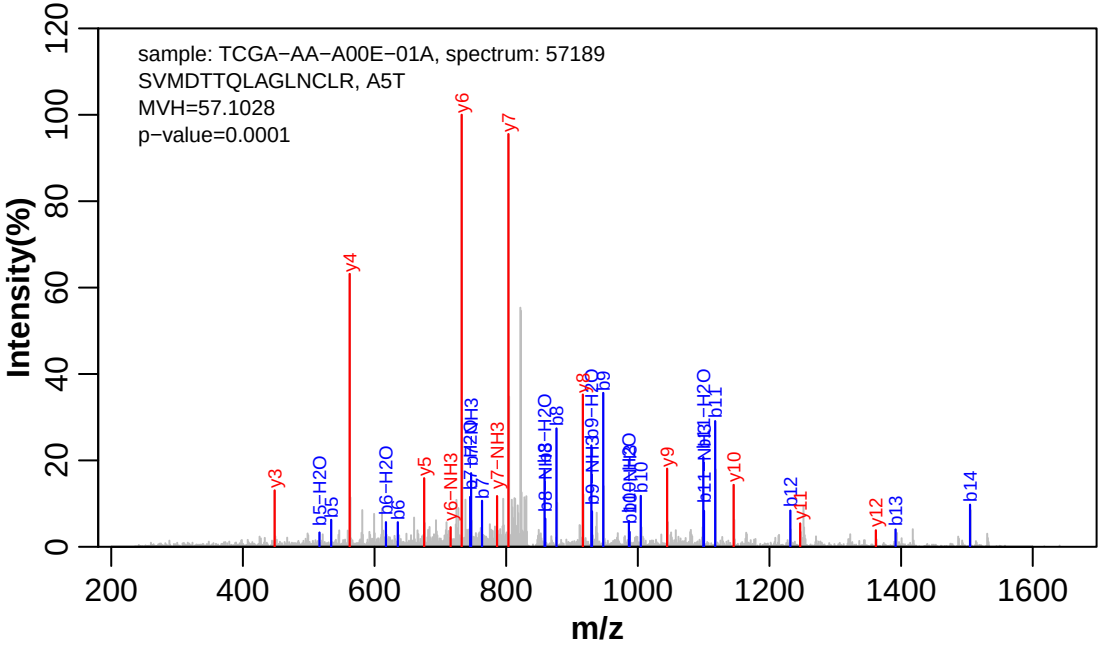

sample: TCGA−AA−A00E−01A, spectrum: 58412
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=51.0678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y14
y15
y16
y17
b8
b9
b11
b13
b14
b18
y12−H2O
y17−H2O

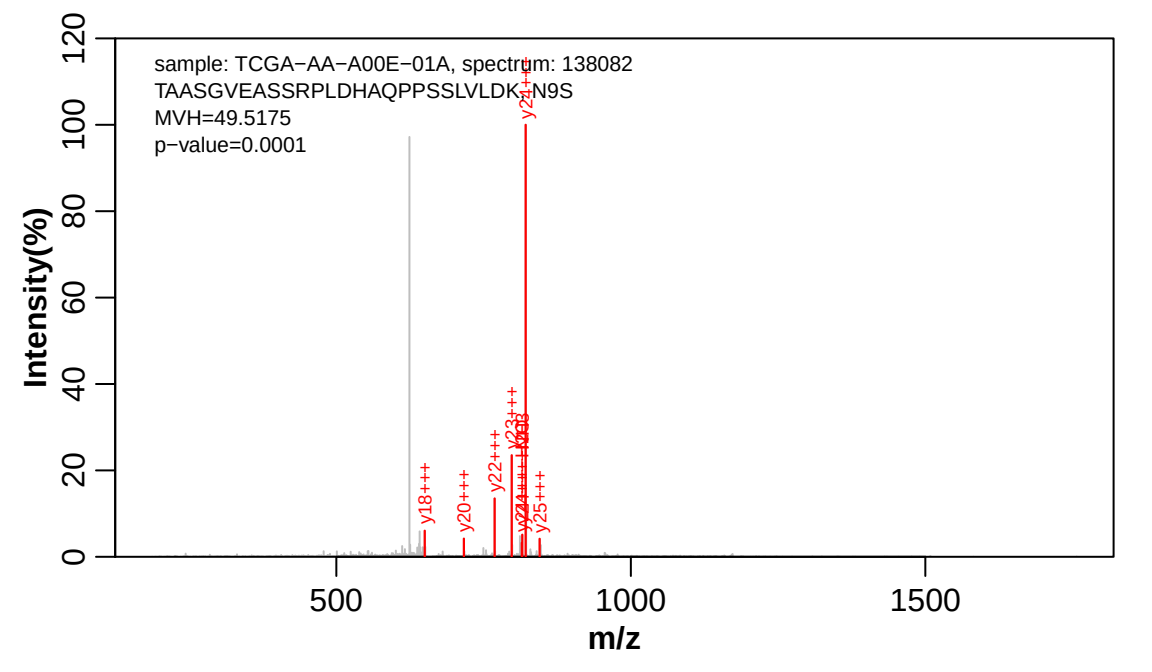

sample: TCGA−AA−A00E−01A, spectrum: 38830
SELPLDPLPLPTEEGNPLLK, V10L
MVH=52.6610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b5
y10++
y12++
b6
y6y12++-H2O
b13++
y14++-H2O
y14++
y17++
y14++
y15++-H2O
y15++
b8
y17++-H2O
b19++
b10
y10

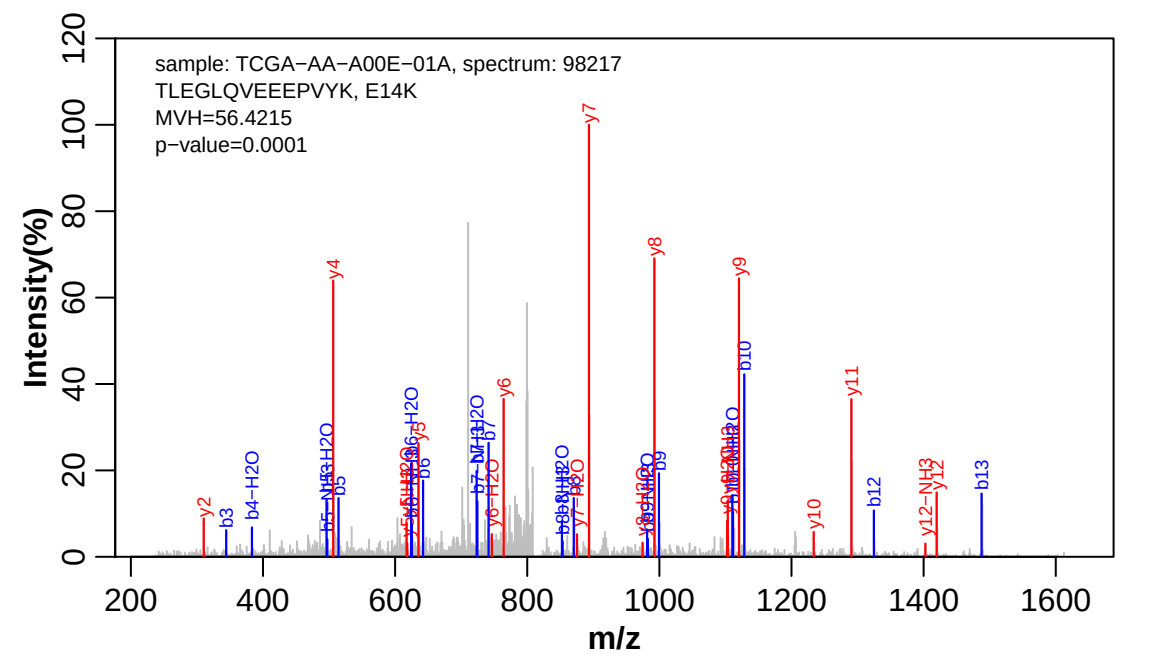

sample: TCGA−AA−A00E−01A, spectrum: 64351
SPADPTDLGGQTSPR, I6T
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
b7−H2O
y7−NH3
y7
b8−H2O
b8−NH3
y8
b9
y9
b10
y10
y11−H2O
y11
b13
y12
y13

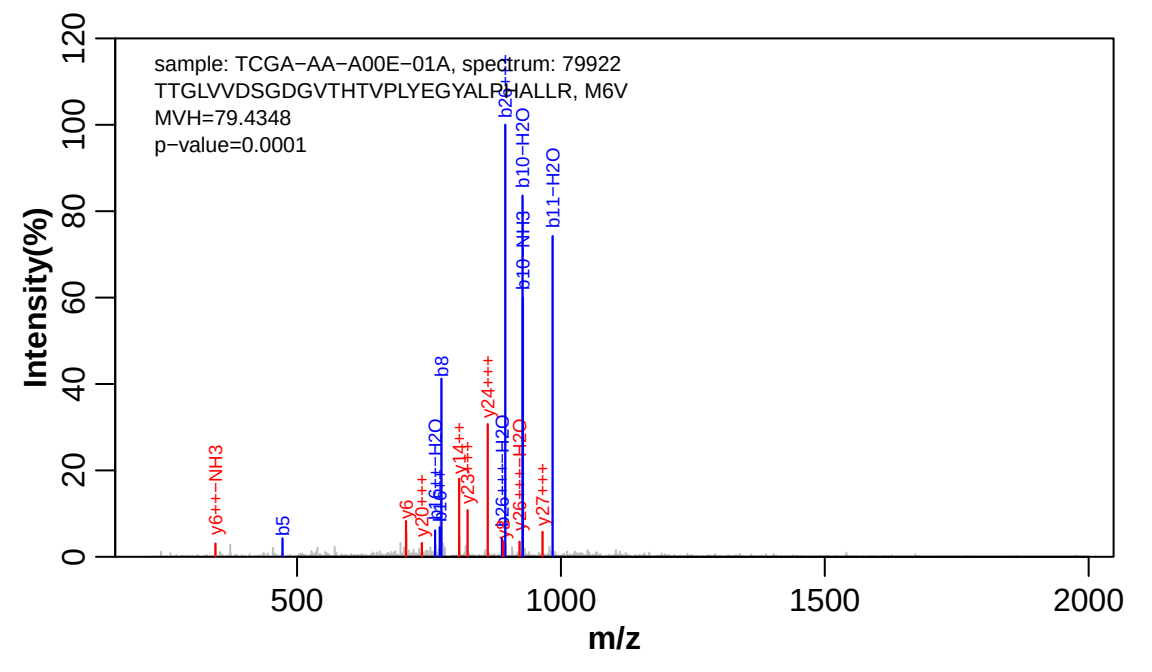

sample: TCGA−AA−A00E−01A, spectrum: 22086
SSSYSGEYGSGGGK, G10S
MVH=61.1568
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y8
b8−H2O
b8
y10−H2O
y9−H2O
y9
y10
b10
b11
y11
y12

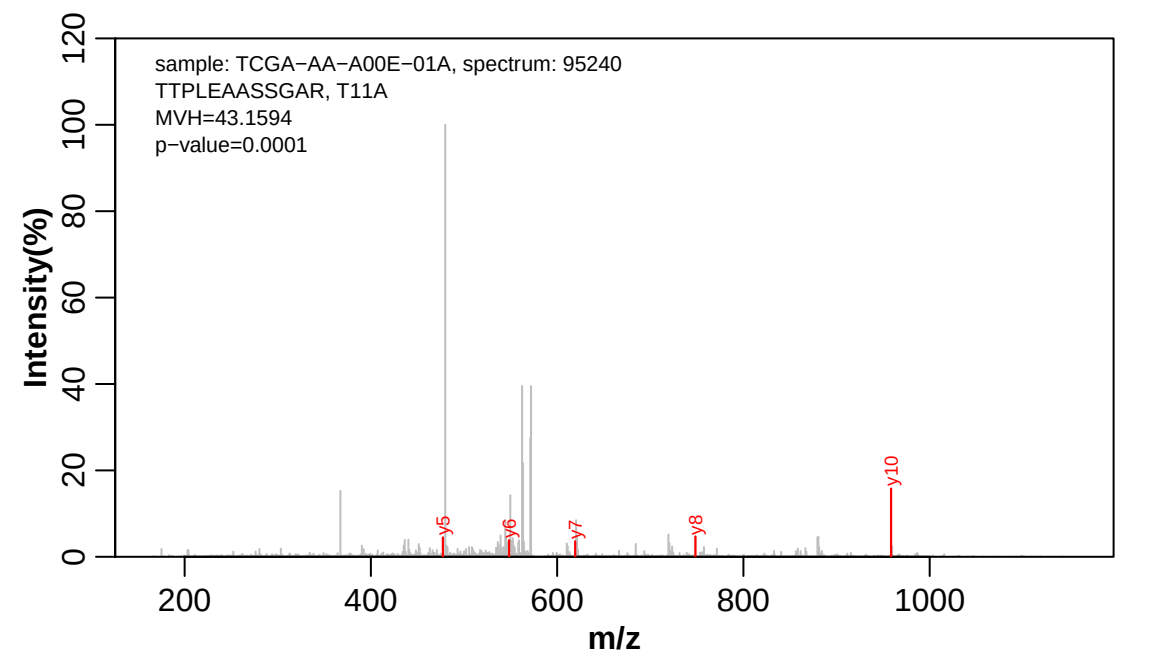

sample: TCGA−AA−A00E−01A, spectrum: 22014
SSSYSGEYGSGGGKR, G10S
MVH=37.0291
p−value=0.0001
Intensity(%)
m/z
y3−NH3
y5−NH3
y5
b5−NH3
b5
b6−H2O
y6
y7
b7−NH3
b7−H2O
b7
y8
b8−H2O
y9
y10
y11
y12
b14

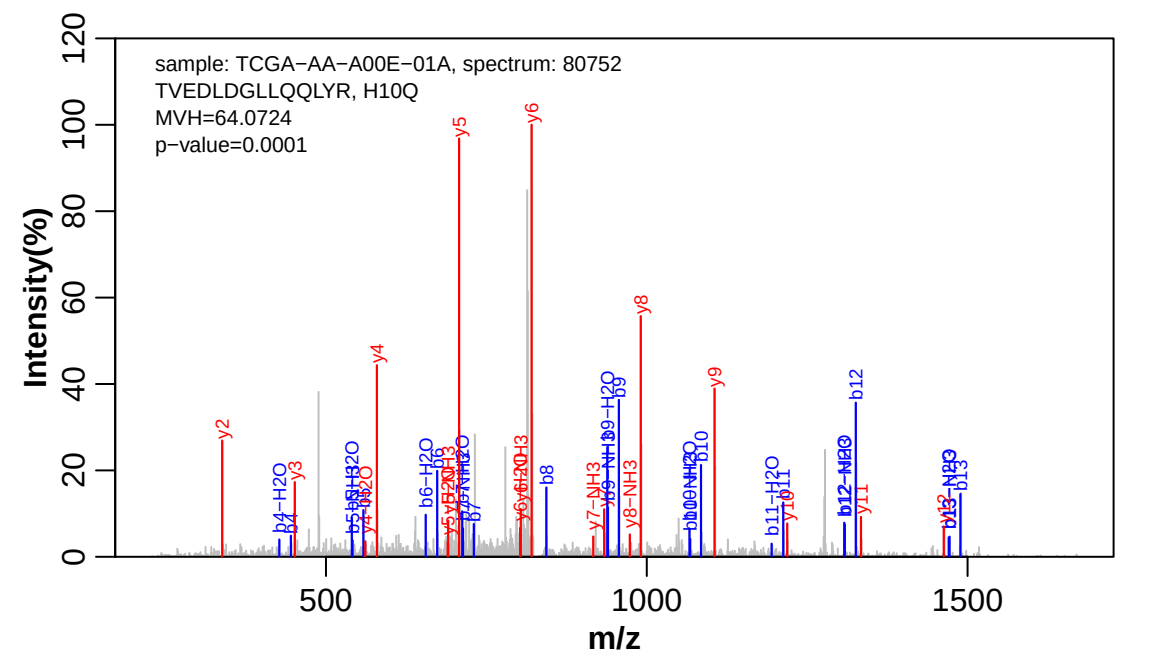

sample: TCGA−AA−A00E−01A, spectrum: 57189
SVMDTTQLAGLNCLR, A5T
MVH=57.1028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y4
y3
y5
y6−NH3
y7−NH3
y9
y10
y12
b14
b12
b13

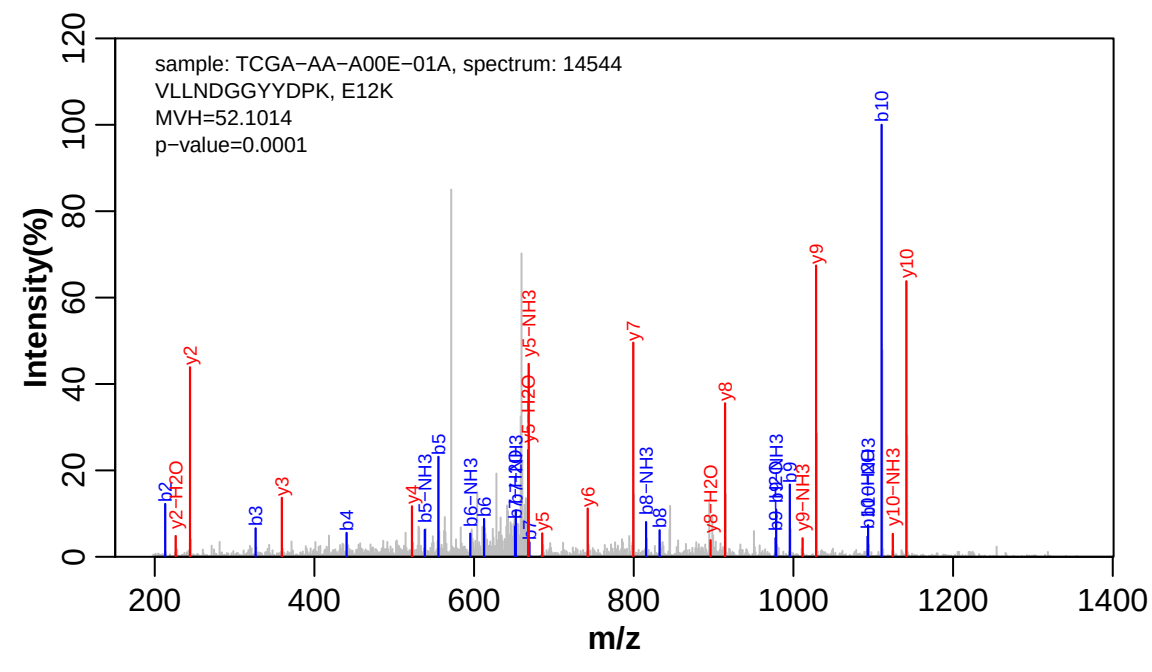

sample: TCGA−AA−A00E−01A, spectrum: 138082
TAASGVEASSRPLDHAQPPSSLVLDK_N9S
MVH=49.5175
p−value=0.0001
y21+++
y18+++
y20+++
y22+++
y23+++
y25+++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

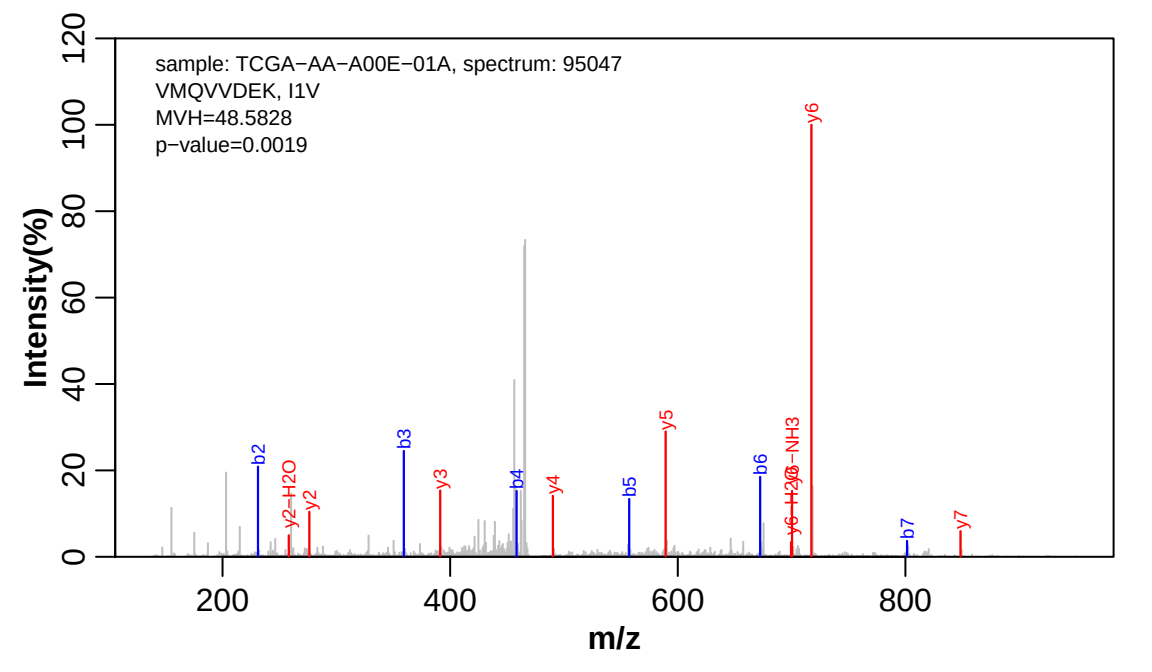

sample: TCGA−AA−A00E−01A, spectrum: 98217
TLEGLQVEEEPVYK, E14K
MVH=56.4215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
y4
b5
y5
b6
y6
b7
y7
y8
b9
b10
y9
y10
y11
b12
y12−NH3
b13

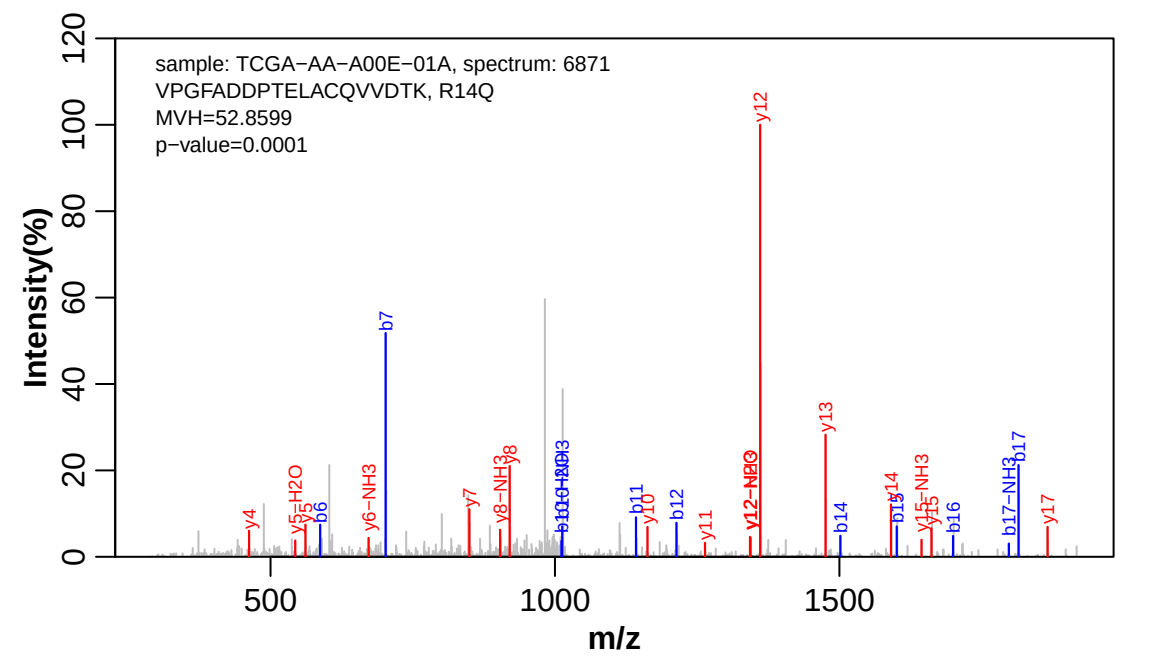

sample: TCGA−AA−A00E−01A, spectrum: 79922
TTGLVVDSGDGVTHTVPLYEGYALPHALLR, M6V
MVH=79.4348
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2++
b10−H2O
b10−NH3
b11−H2O
b8
y24+++
y6++−NH3
b5
y6
y20+++
y14++
y23++
y26+++−H2O
y26+++−H2O
y27+++

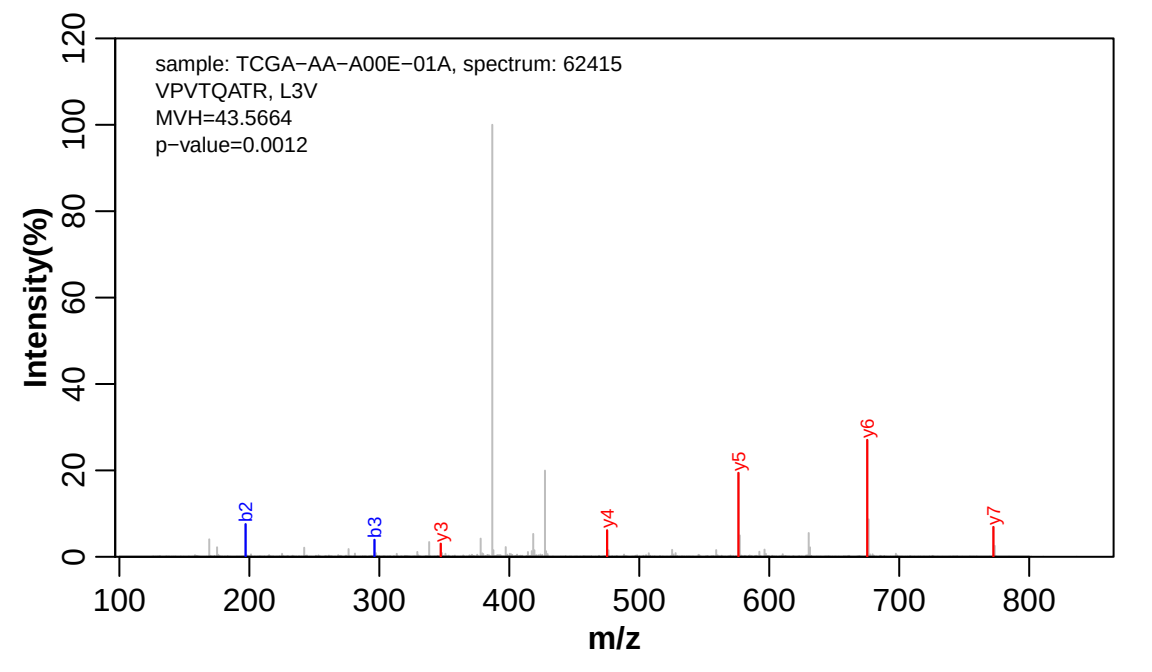

sample: TCGA−AA−A00E−01A, spectrum: 95240
TTPLEAASSGAR, T11A
MVH=43.1594
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

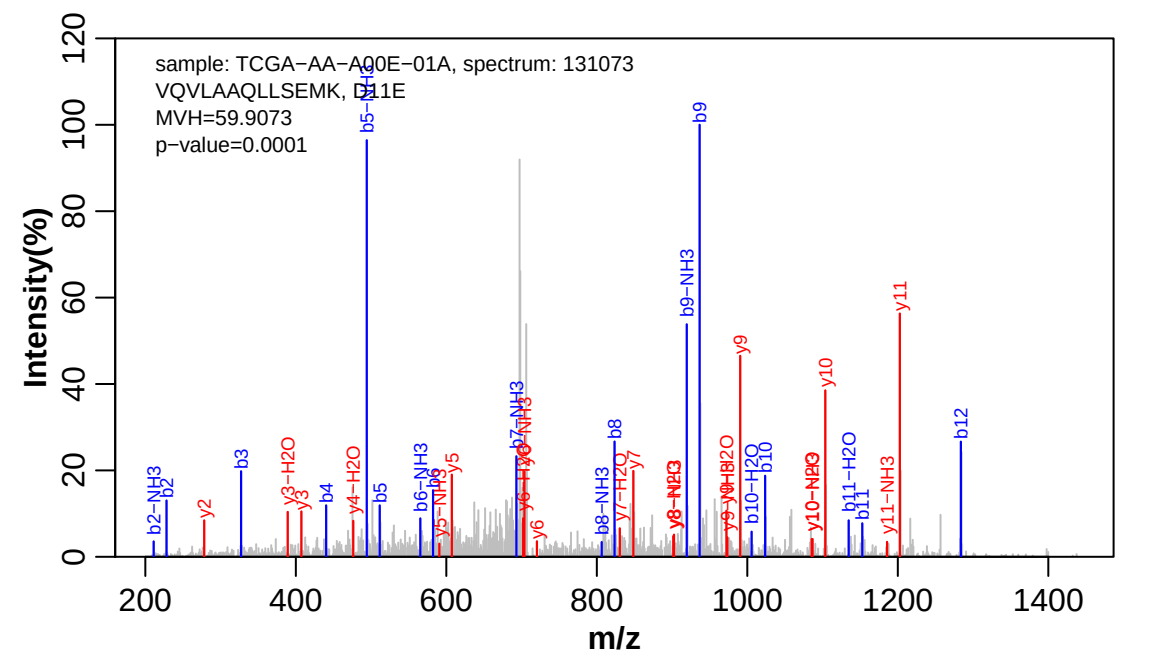

sample: TCGA−AA−A00E−01A, spectrum: 80752
TVEDLDGLLQQLYR, H10Q
MVH=64.0724
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
y4
y5
y6
y8
y9
y10
y11
b4−H2O
b4
b6−H2O
b8
y7−NH3
y8−NH3
b9−H2O
b9
b10
b11−H2O
b12
b13

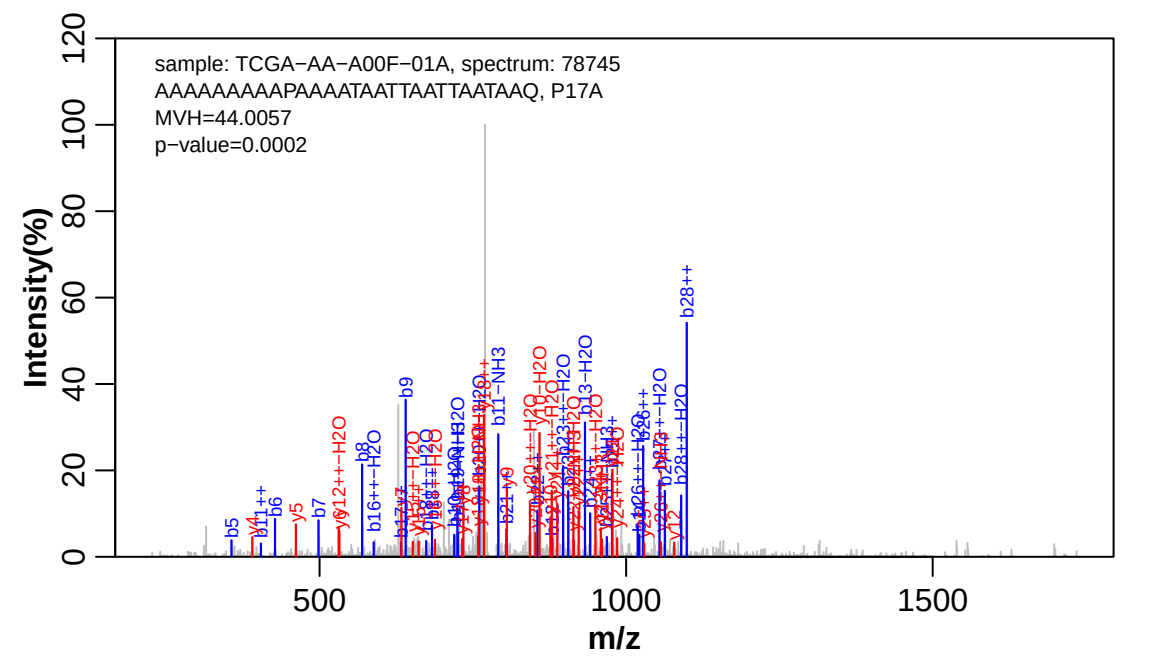

sample: TCGA−AA−A00E−01A, spectrum: 14544
VLLNDGGYYDPK, E12K
MVH=52.1014
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10
y10
y9
y2
y7
y8
y5−NH3
y5−H2O
b5
b8−NH3
y10−NH3
y9−NH3
y8−H2O
y6
y4
b6−NH3
b3
b4
b2
y2−H2O
y3

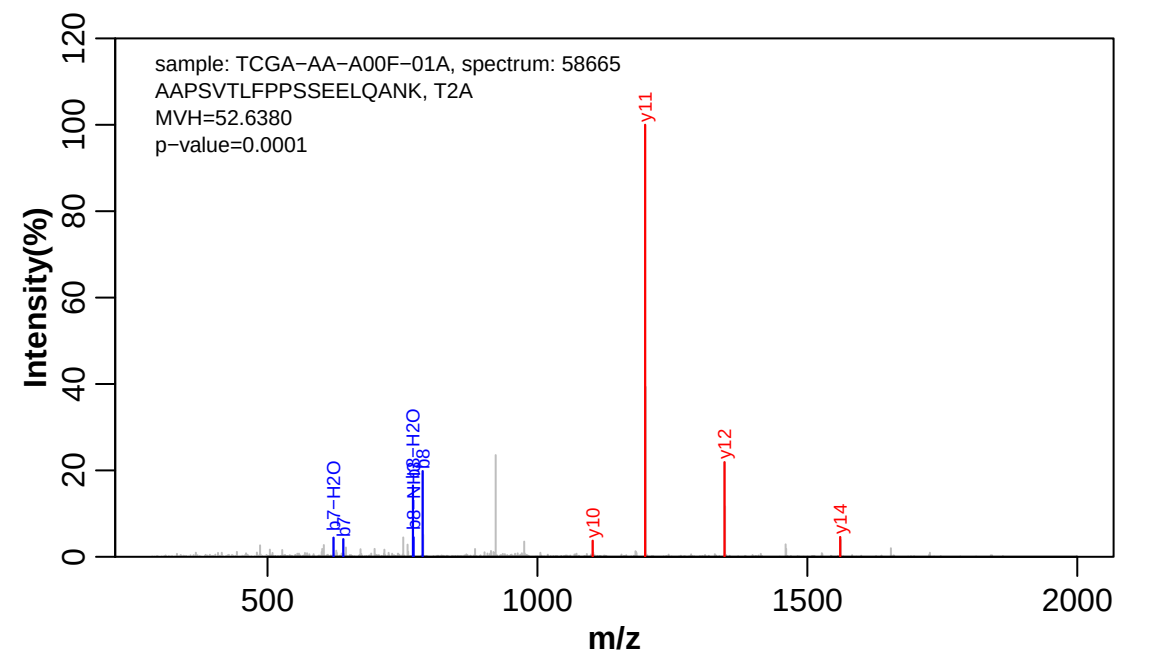

sample: TCGA−AA−A00E−01A, spectrum: 95047
VMQVVDEK, I1V
MVH=48.5828
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6−NH3
y6
b7
y7

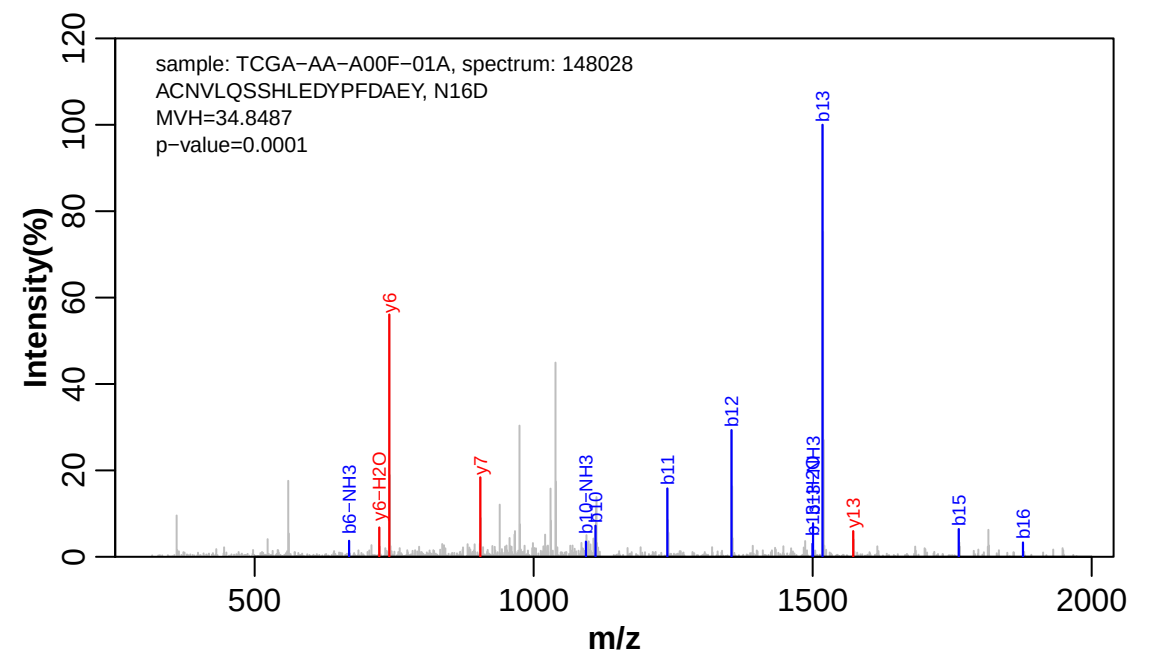

sample: TCGA−AA−A00E−01A, spectrum: 6871
VPGFADDPTELACQVVDTK, R14Q
MVH=52.8599
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b7
y13
y4
y5−H2O
y5
b6
y6−NH3
y7
y8
y8−NH3
b11
y10
b12
y11
b14
y14
y15−NH3
y15
b16
b17−NH3
b17
y17

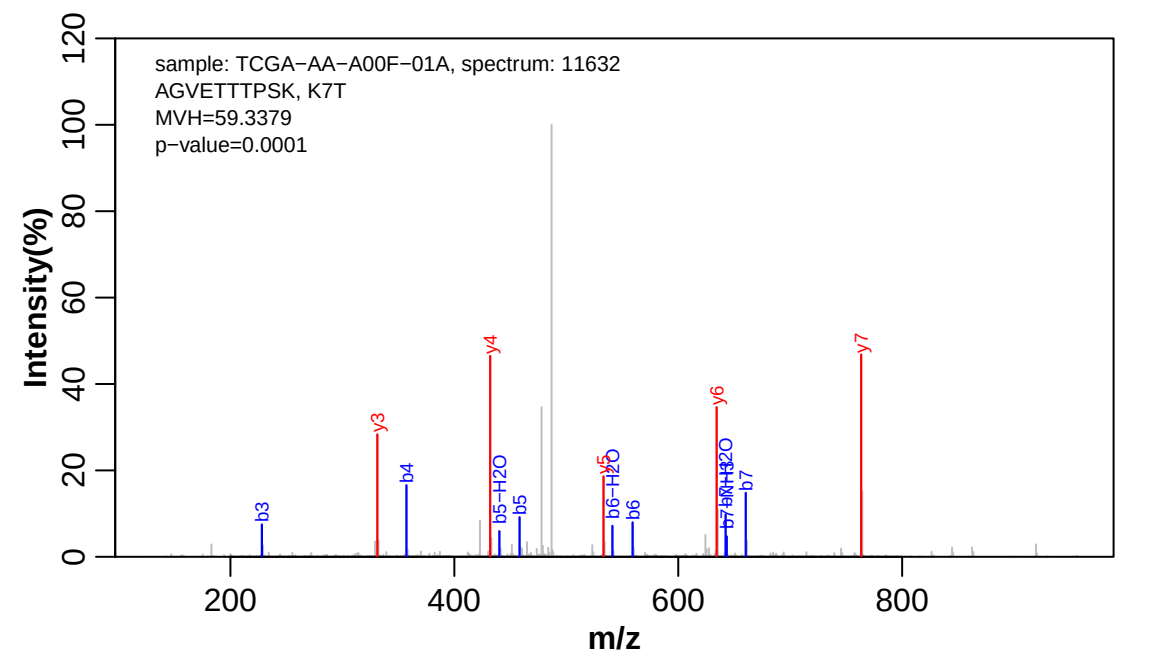

sample: TCGA−AA−A00E−01A, spectrum: 62415
VPVTQATR, L3V
MVH=43.5664
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
y6
y7

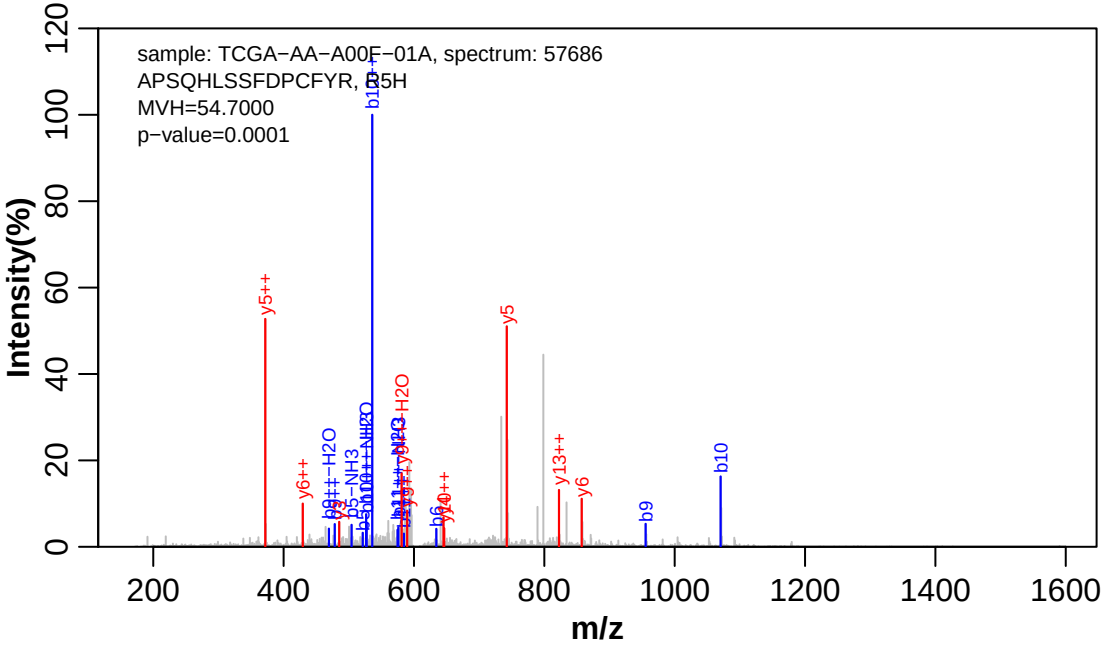

sample: TCGA−AA−A00E−01A, spectrum: 131073
VQVLAAQLLSEMK, D11E
MVH=59.9073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5
b5−H2O
b6−NH3
y5−NH3
y5
b7−NH3
y6−NH3
y6
y6−H2O
b8−NH3
b8
y7−H2O
y7
y8−NH3
y8−H2O
b9−NH3
b9
y9−NH3
y9−H2O
y9
b10−H2O
b10
y10−NH3
y10−H2O
y10
b11−H2O
b11
y11−NH3
y11
b12

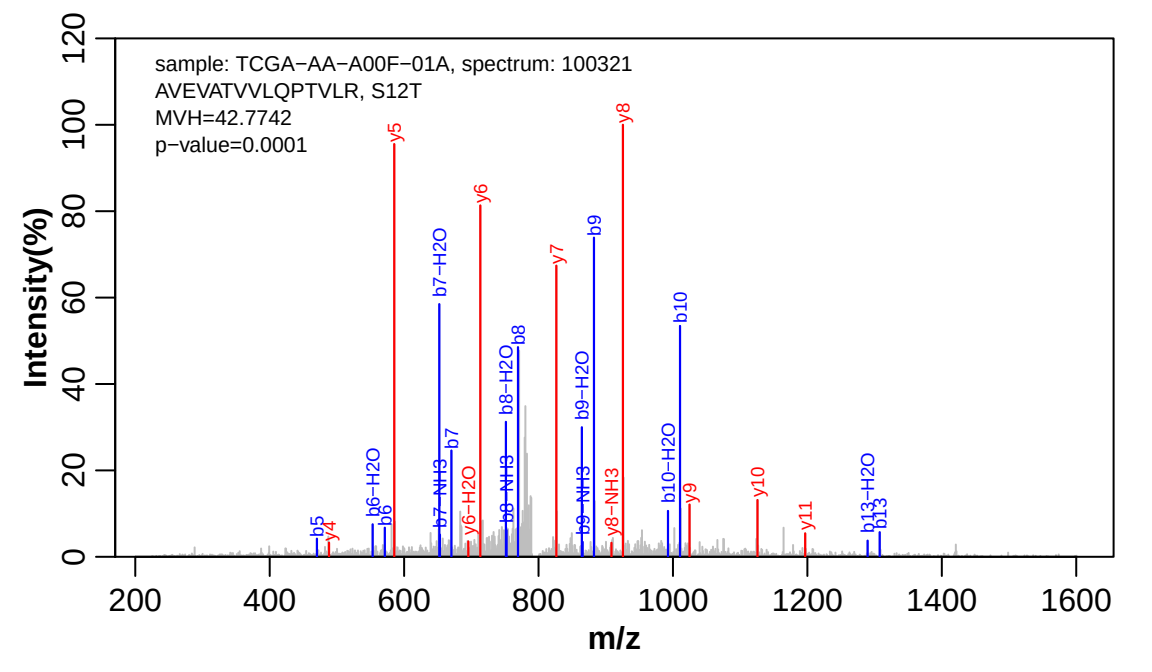

sample: TCGA−AA−A00F−01A, spectrum: 78745
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=44.0057
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5
y4++
b6
y5
b7
y12++−H2O
b8
b16++−H2O
b9
b11−NH3
b28++
y12

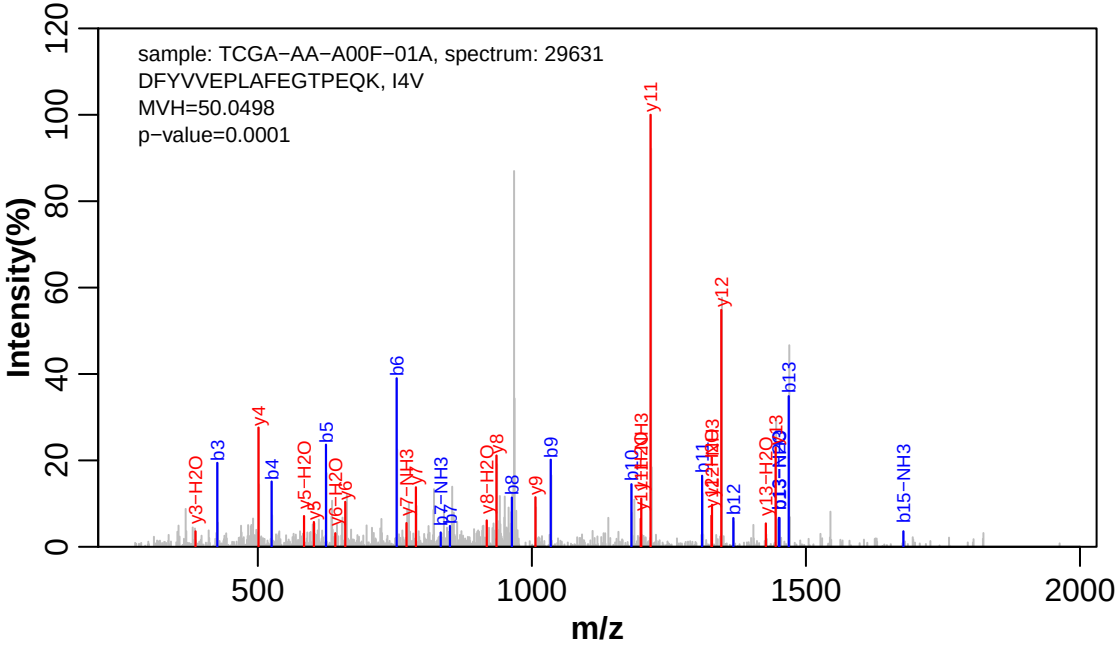

sample: TCGA−AA−A00F−01A, spectrum: 58665
AAPSVTLFPPSSEELQANK, T2A
MVH=52.6380
p−value=0.0001
Intensity(%)
m/z
y11
y12
y14
y10
b7−H2O
b7
b8−H2O
b8
0
20
40
60
80
100
120
500
1000
1500
2000

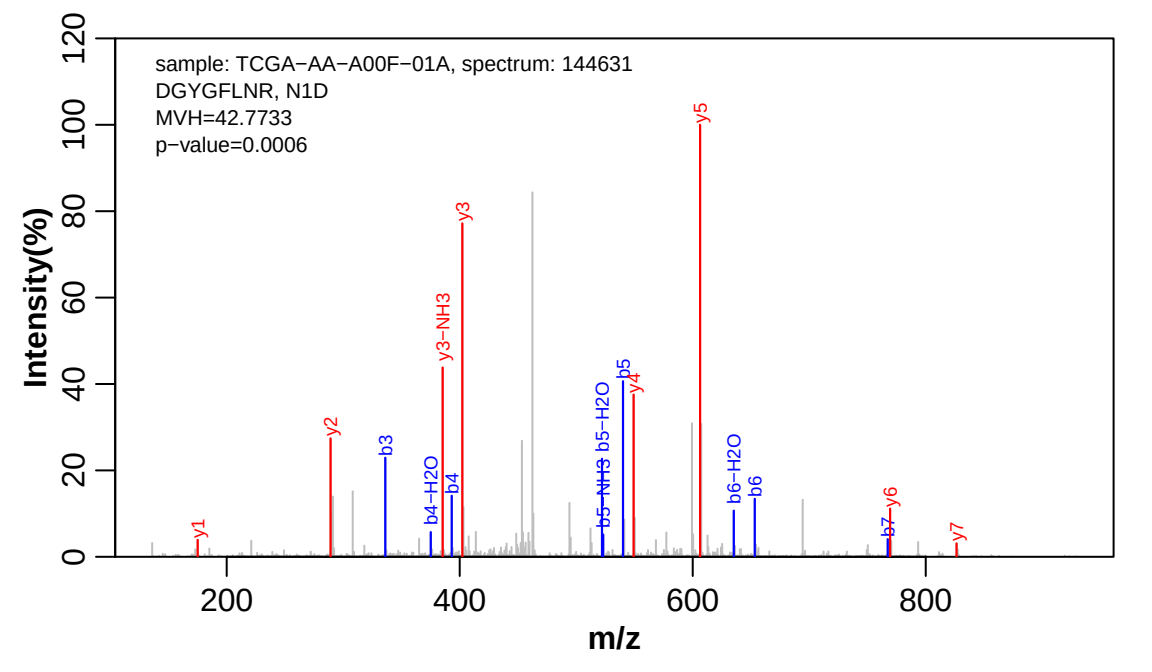

sample: TCGA−AA−A00F−01A, spectrum: 148028
ACNVLQSSHLEDYPFDAEY, N16D
MVH=34.8487
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b6−NH3
y6−H2O
y6
y7
b10−NH3
b10
b11
b12
b13
y13
b15
b16

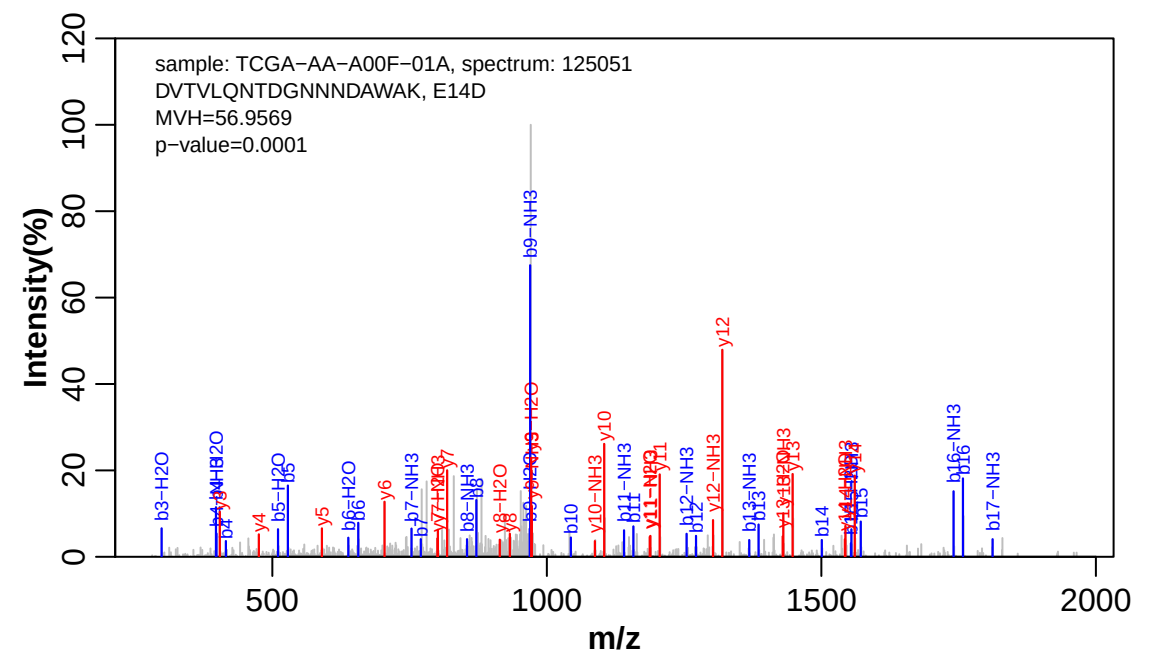

sample: TCGA−AA−A00F−01A, spectrum: 11632
AGVETTTPSK, K7T
MVH=59.3379
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
b6−H2O
y5
b6
y6
b7−NH3
b7−H2O
b7
y7

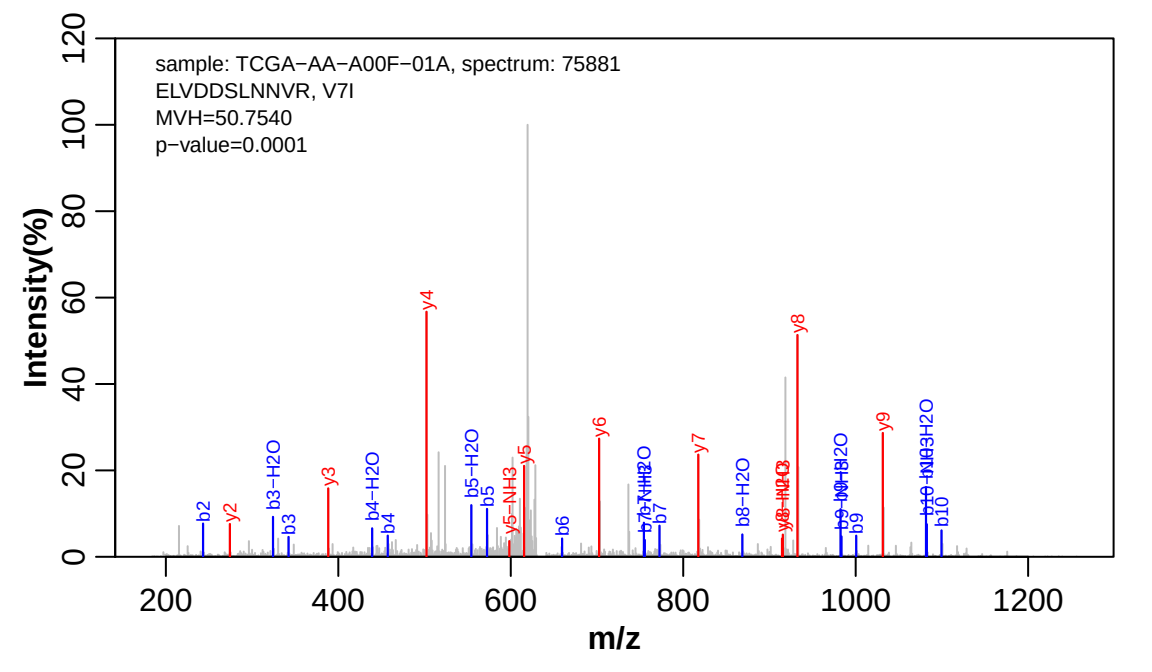

sample: TCGA−AA−A00F−01A, spectrum: 57686
APSQHLSSFDPCFYR, 5H
MVH=54.7000
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b1++
y5++
y6++
y5
y13++
y6
b9
b10
y10++
b6
H2O
NH3

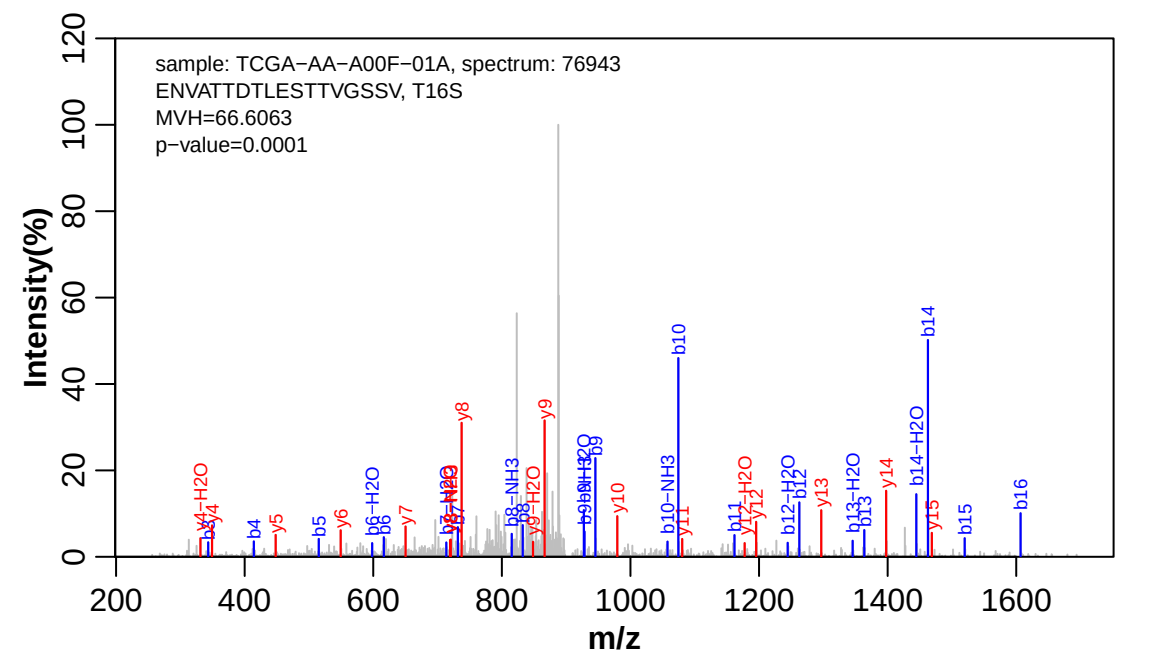

sample: TCGA−AA−A00F−01A, spectrum: 100321
AVEVATVVLQPTVLR, S12T
MVH=42.7742
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
b7−H2O
y8
b9
y7
b8
b8−H2O
b10
b9−H2O
b7
b7−NH3
b8−NH3
b9−NH3
b10−H2O
y6−H2O
y8−NH3
y9
y10
y11
b13−H2O
b5
y4
b6−H2O
b6
b13

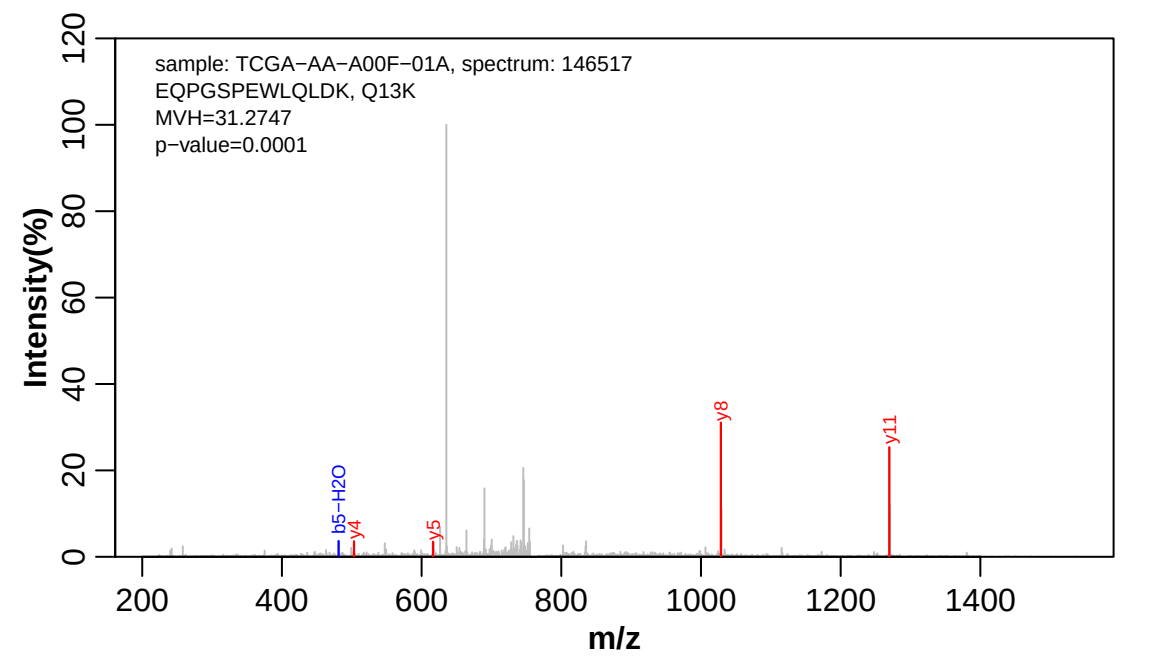

sample: TCGA−AA−A00F−01A, spectrum: 29631
DFYVVEPLAFEGTPEQK, I4V
MVH=50.0498
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
y12
y4
b3
b4
b5
b6
b7
b8
b9
b12
b13
b15−NH3
y3−H2O
y5−H2O
y6−H2O
y7−NH3
y8−H2O
y9
y10
y11−H2O
y11−NH3
y12−H2O
y12−NH3
y13−H2O
y13−NH3

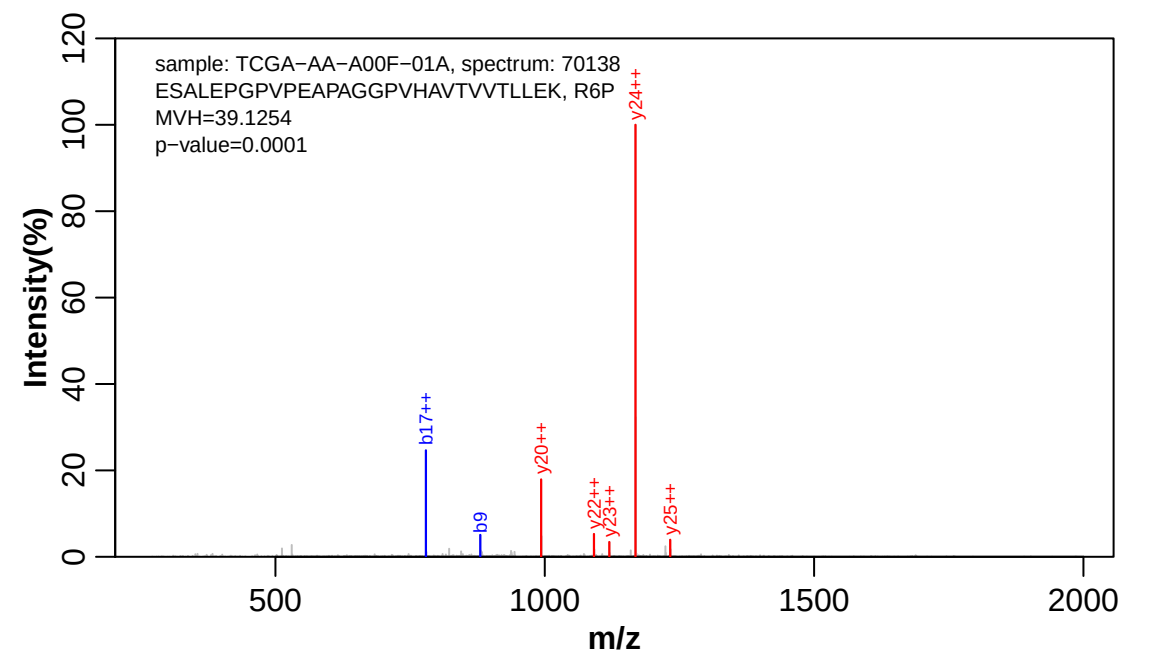

sample: TCGA−AA−A00F−01A, spectrum: 144631
DGYGFLNR, N1D
MVH=42.7733
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6
y7

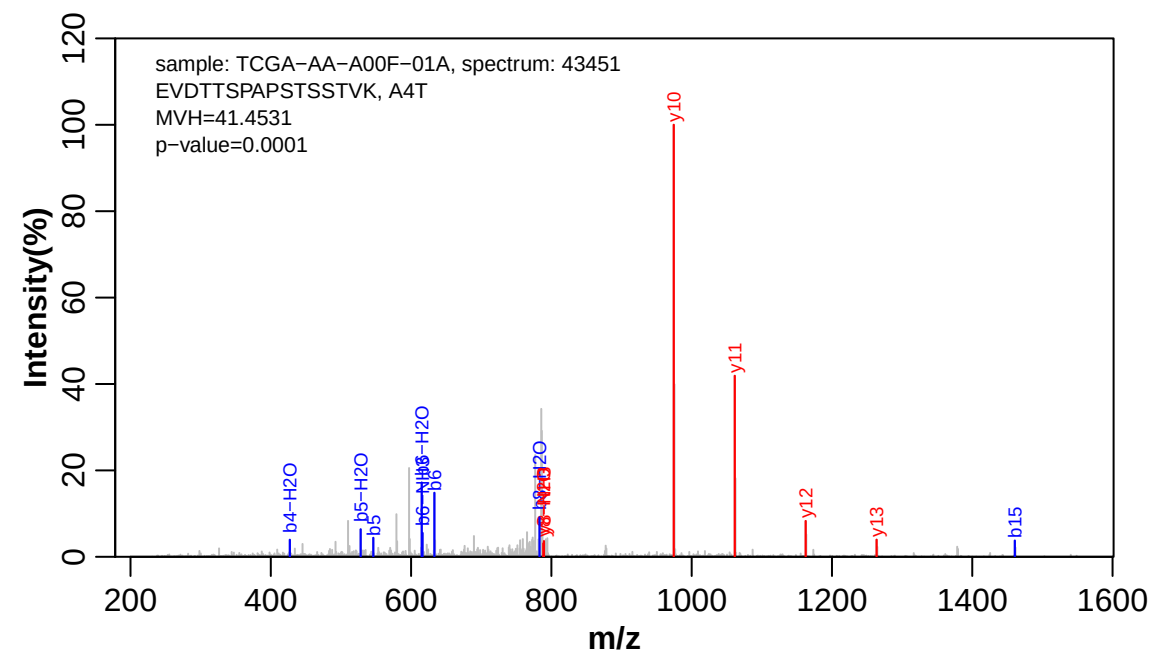

sample: TCGA−AA−A00F−01A, spectrum: 125051
DVTVLQNTDGNNNDAWAK, E14D
MVH=56.9569
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b5−H2O
y4
y5
b6−H2O
y6
b7−NH3
b8−NH3
b9−NH3
b10
y10−NH3
y10
b11−NH3
y11
b12−NH3
y12
y12−NH3
b13−NH3
b14
b16−NH3
b17−NH3

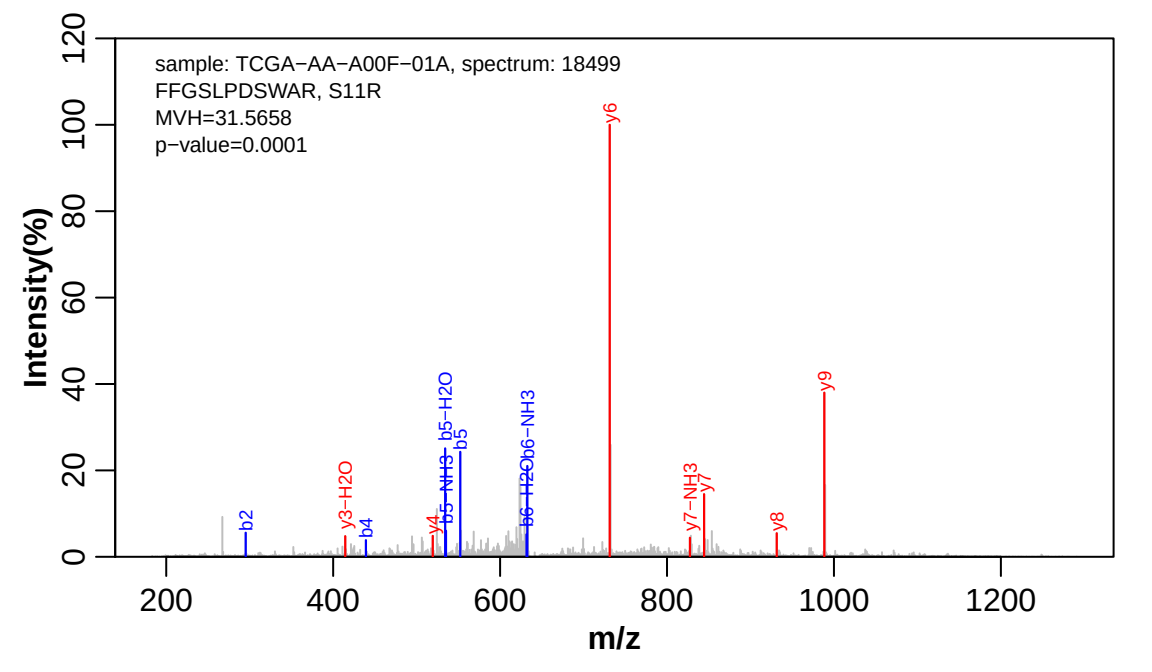

sample: TCGA−AA−A00F−01A, spectrum: 75881
ELVDDSLNNVR, V7I
MVH=50.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
b6
y6
b7
y7
b8−H2O
y8
y9
b10
b10−H2O

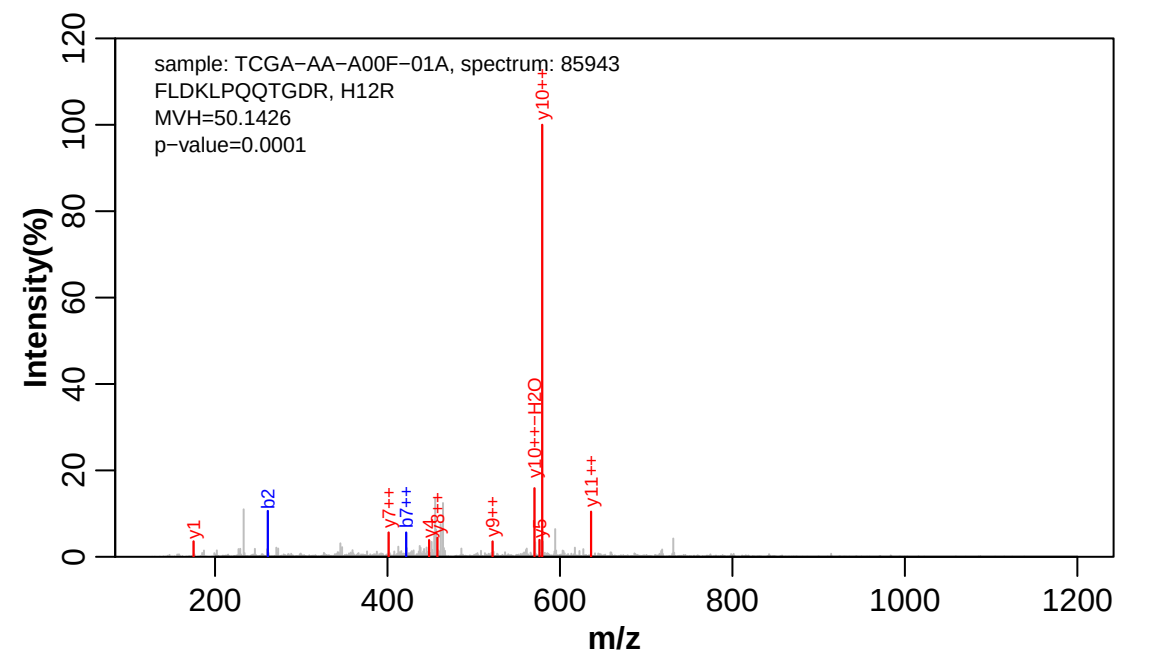

sample: TCGA−AA−A00F−01A, spectrum: 76943
ENVATTDTLESTTVGSSV, T16S
MVH=66.6063
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
b5
b6
b6−H2O
y7
y8
b8−NH3
b8
y9−H2O
y9
b9
y10
b10−NH3
b10
y11
b11
y12−H2O
y12
b12−H2O
b12
y13
b13−H2O
b13
y14
b14−H2O
b14
y15
b15
b16

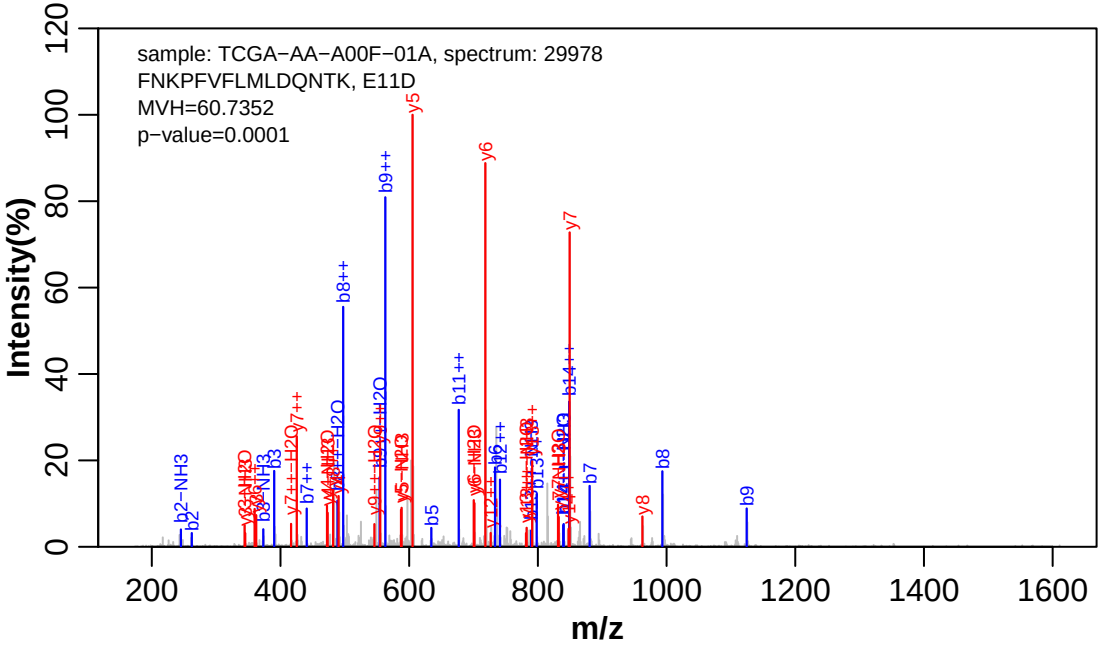

sample: TCGA−AA−A00F−01A, spectrum: 146517
EQPGSPEWLQLDK, Q13K
MVH=31.2747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

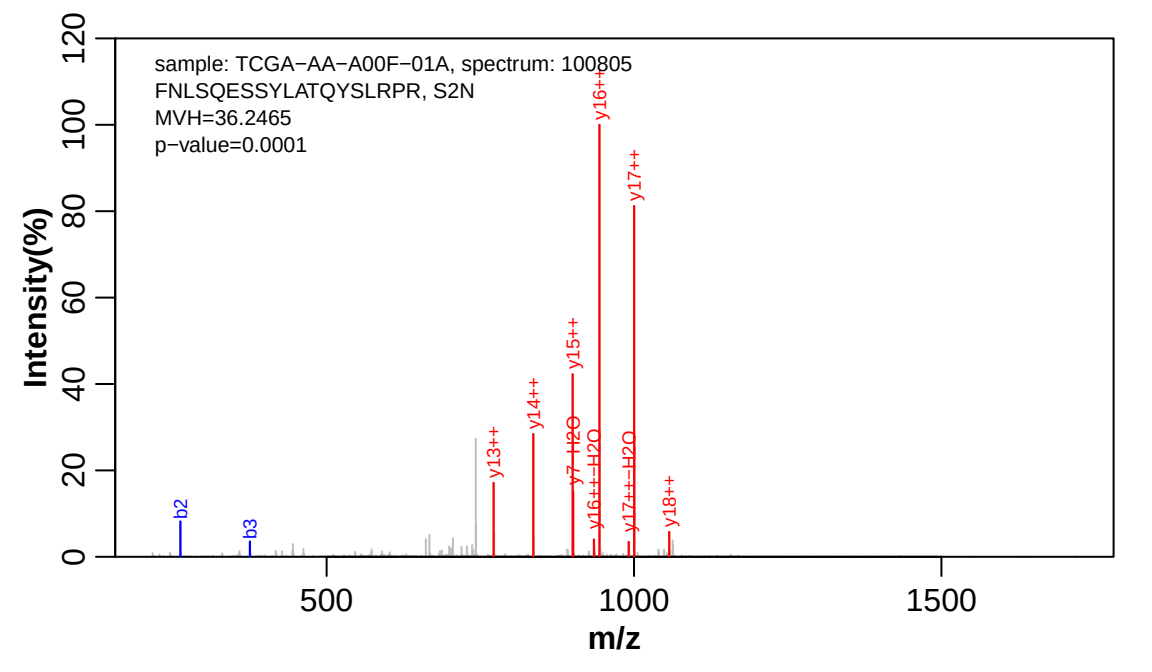

sample: TCGA−AA−A00F−01A, spectrum: 70138
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=39.1254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b17++
b9
y20++
y22++
y23++
y24++
y25++

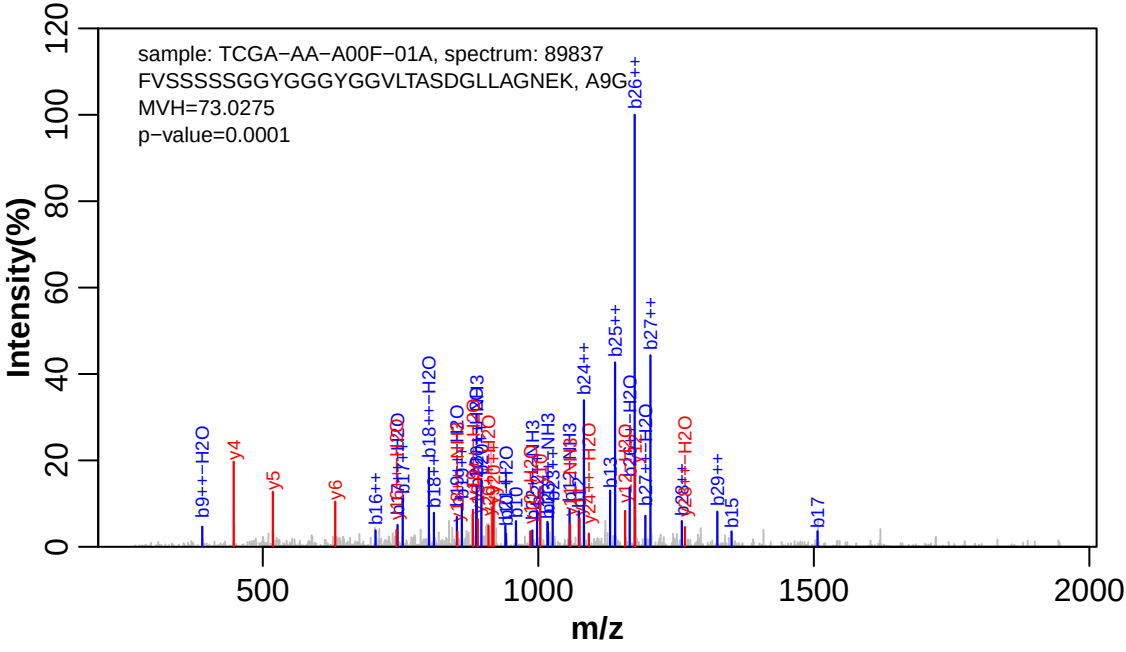

sample: TCGA−AA−A00F−01A, spectrum: 43451
EVDTTSPAPSTSSTVK, A4T
MVH=41.4531
p−value=0.0001
Intensity(%)
m/z
y10
y11
y12
y13
b15
b4−H2O
b5−H2O
b5
b6−H2O
b6
y8−H2O
y8

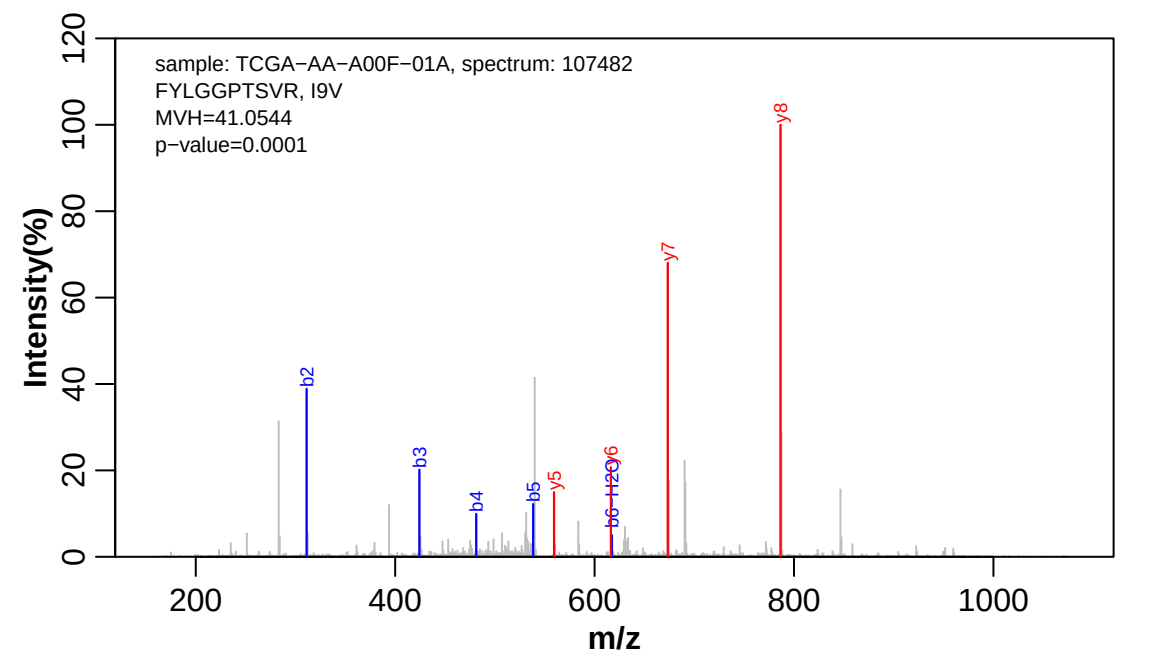

sample: TCGA−AA−A00F−01A, spectrum: 18499
FFGSLPDSWAR, S11R
MVH=31.5658
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7−NH3
y7
y8
y9

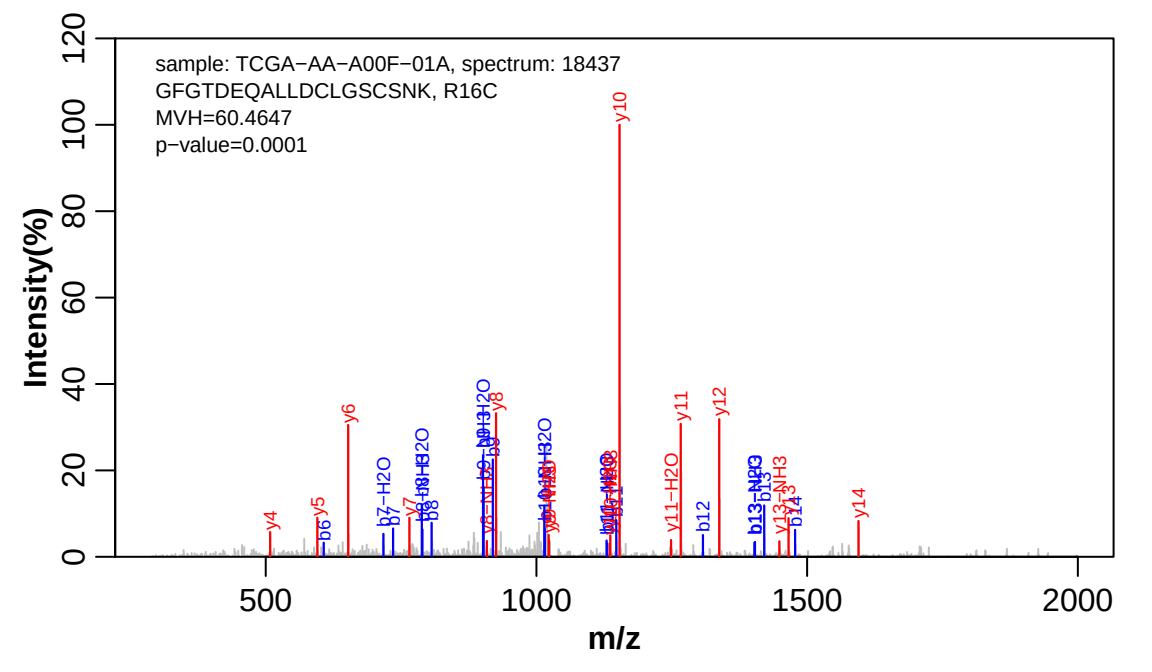

sample: TCGA−AA−A00F−01A, spectrum: 85943
FLDKLPQQTGDR, H12R
MVH=50.1426
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b2
y1
y7++
b7++
y8++
y4
y9++
y5

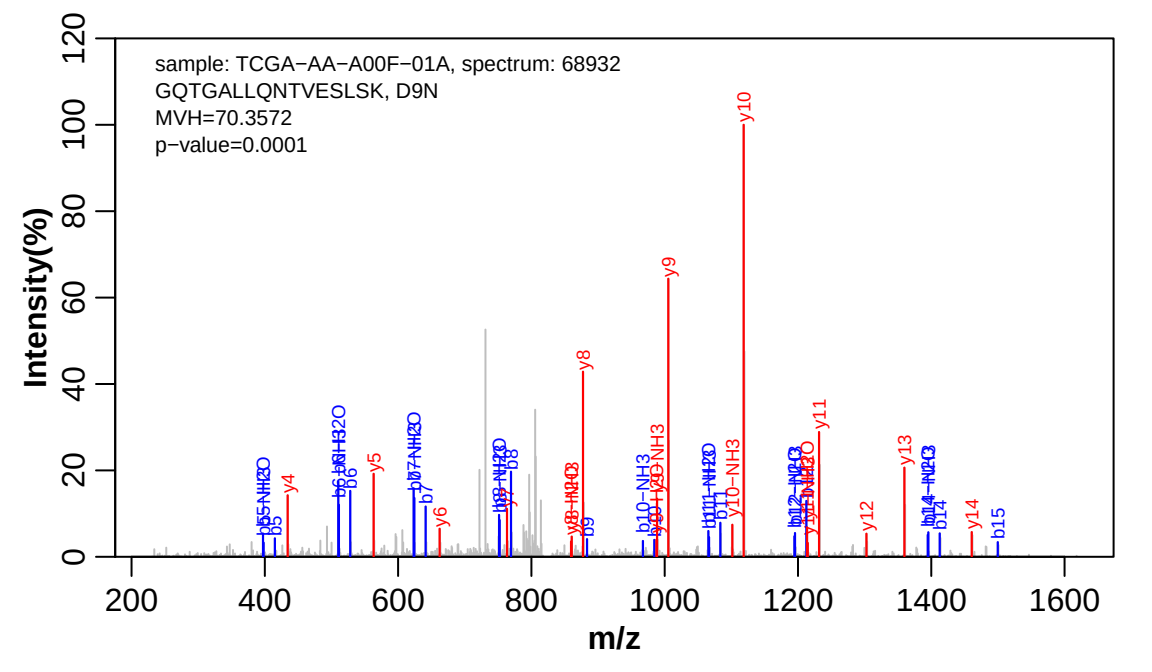

sample: TCGA−AA−A00F−01A, spectrum: 29978
FNKPFVFLMLDQNTK, E11D
MVH=60.7352
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b9++
b8++
b11++
b14++
b2−NH3
b2
b7++
b5
b7
b8
b9
y8

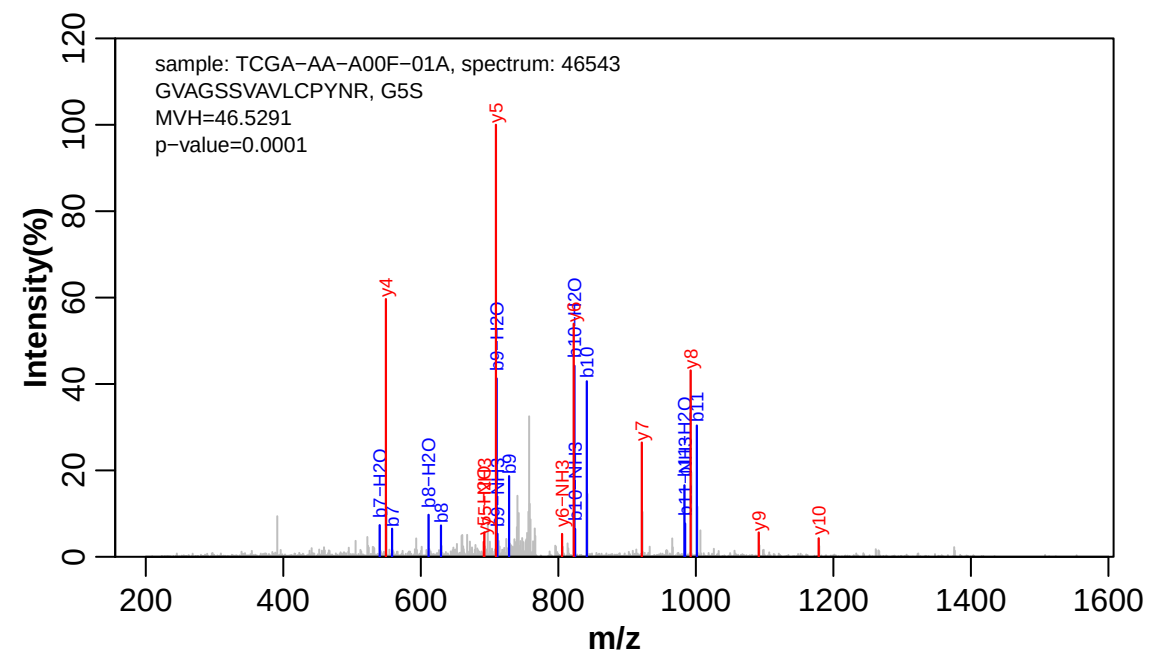

sample: TCGA−AA−A00F−01A, spectrum: 100805
FNLSQESSYLATQYSLRPR, S2N
MVH=36.2465
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y13++
y14++
y7−H2O
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

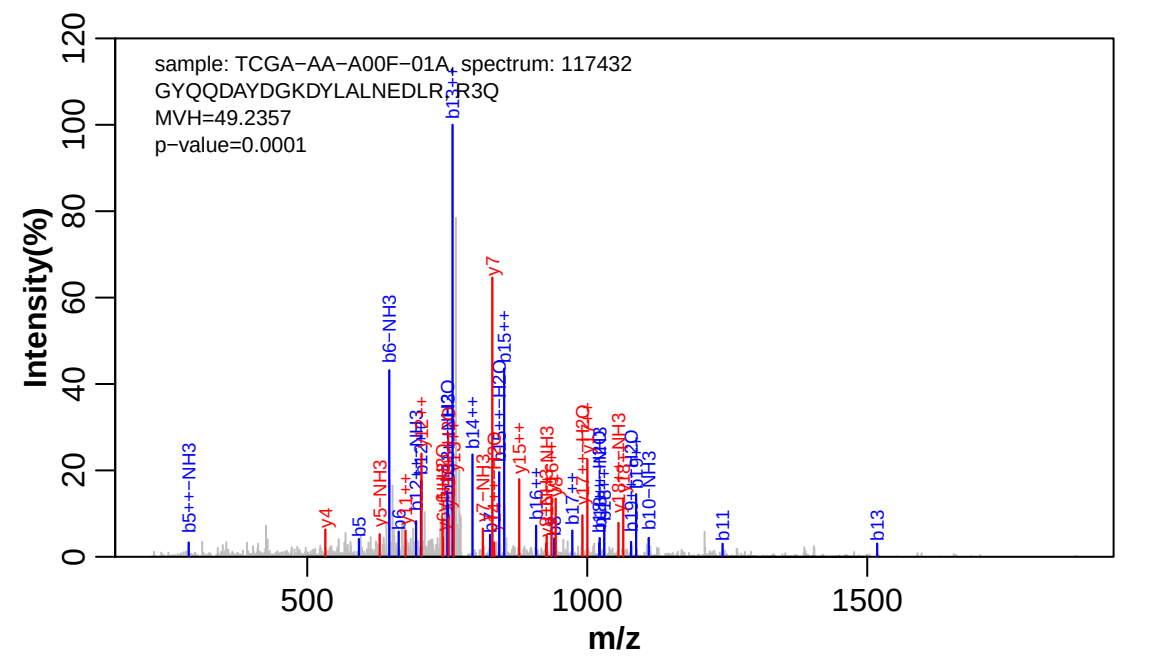

sample: TCGA−AA−A00F−01A, spectrum: 89837
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=73.0275
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b26++
b25++
b27++
b24++
y4
y5
y6
b16++
b18++−H2O
b9++−H2O
b13
b29++
b15
b17

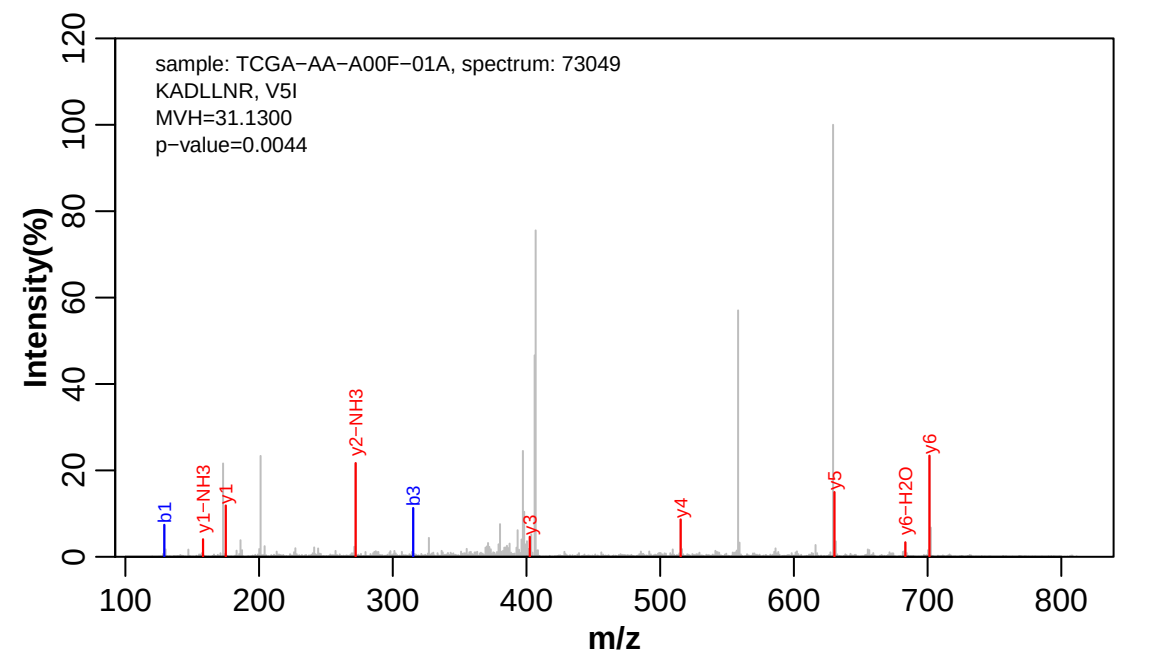

sample: TCGA−AA−A00F−01A, spectrum: 107482
FYLGGPTSVR, I9V
MVH=41.0544
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

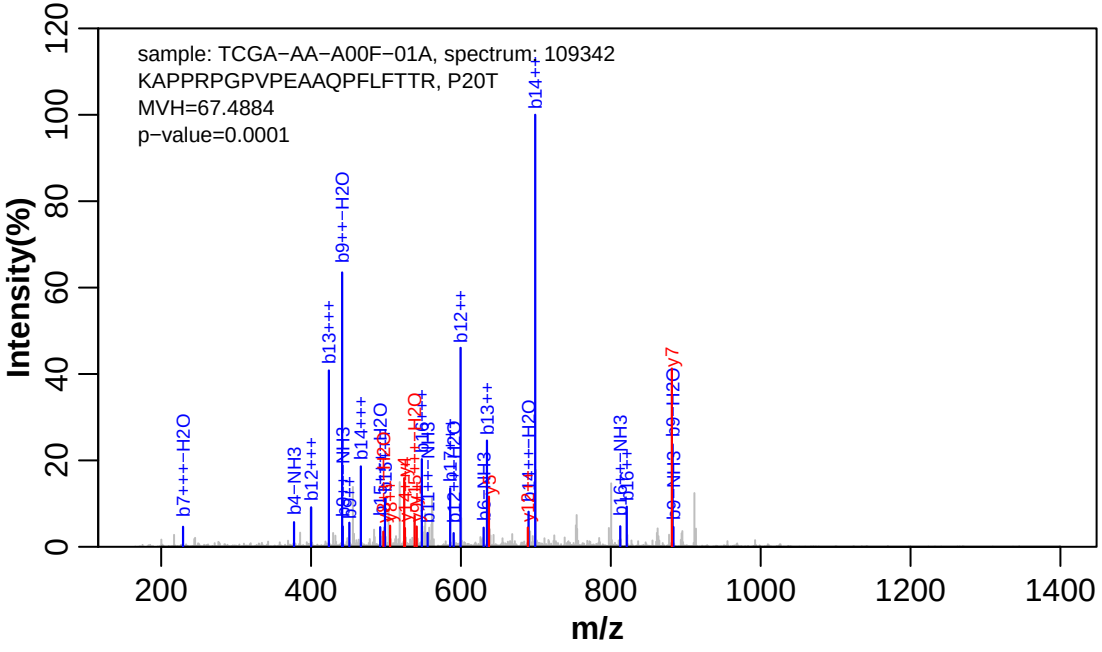

sample: TCGA−AA−A00F−01A, spectrum: 18437
GFGTDEQALLDCLGSCSNK, R16C
MVH=60.4647
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y6
y8
y11
y12
y4
y5
b6
b7−H2O
b8
y7
b12
y11−H2O
y14
b14
y13−NH3

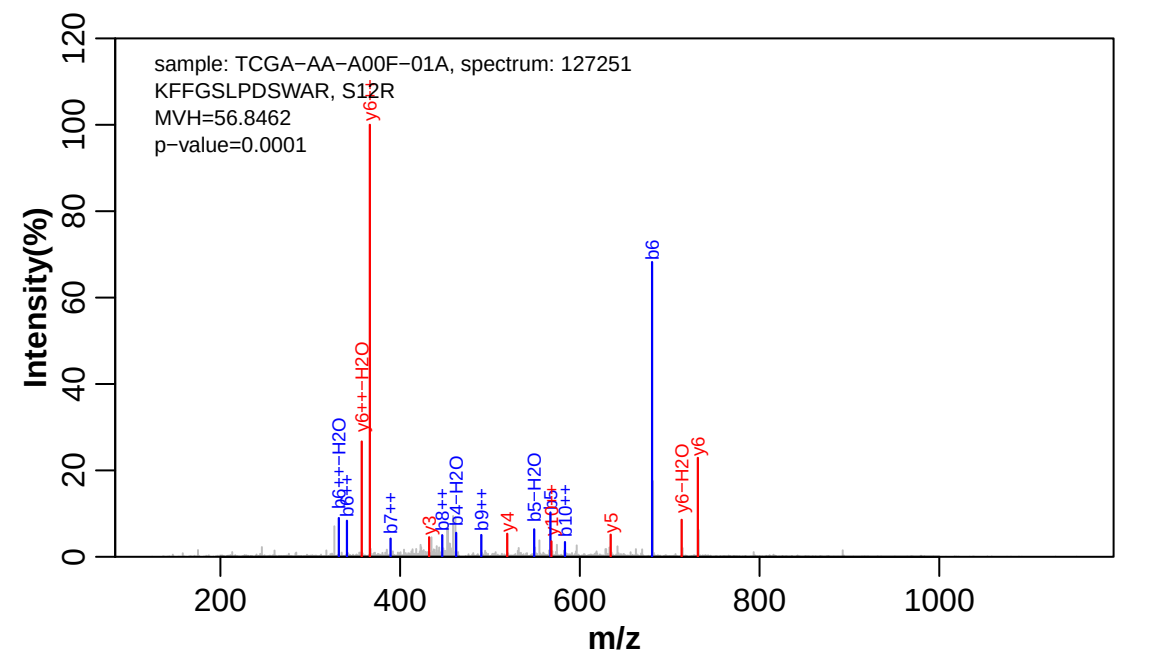

sample: TCGA−AA−A00F−01A, spectrum: 68932
GQTGALLQNTVESLSK, D9N
MVH=70.3572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
b15
y5
y4
y6
b10−NH3
y10−NH3

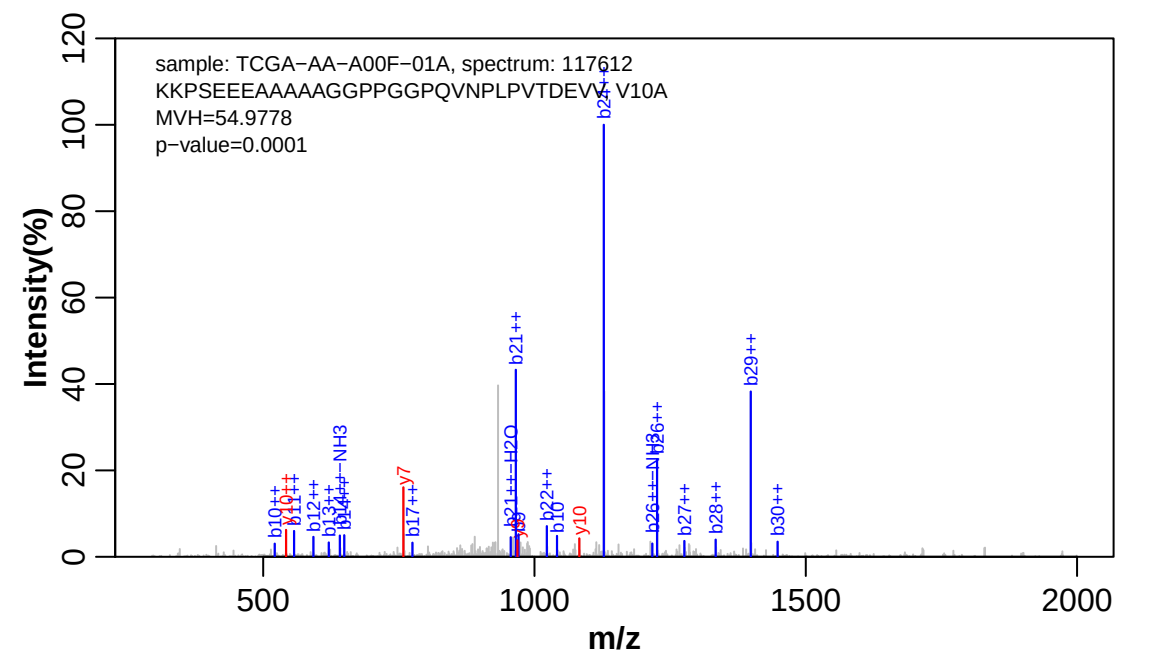

sample: TCGA−AA−A00F−01A, spectrum: 46543
GVAGSSVAVLCPYNR, G5S
MVH=46.5291
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b11−NH3−H2O
b7−H2O
b8−H2O
b7
b8
b9
y6−NH3
b10−NH3
y9
y10

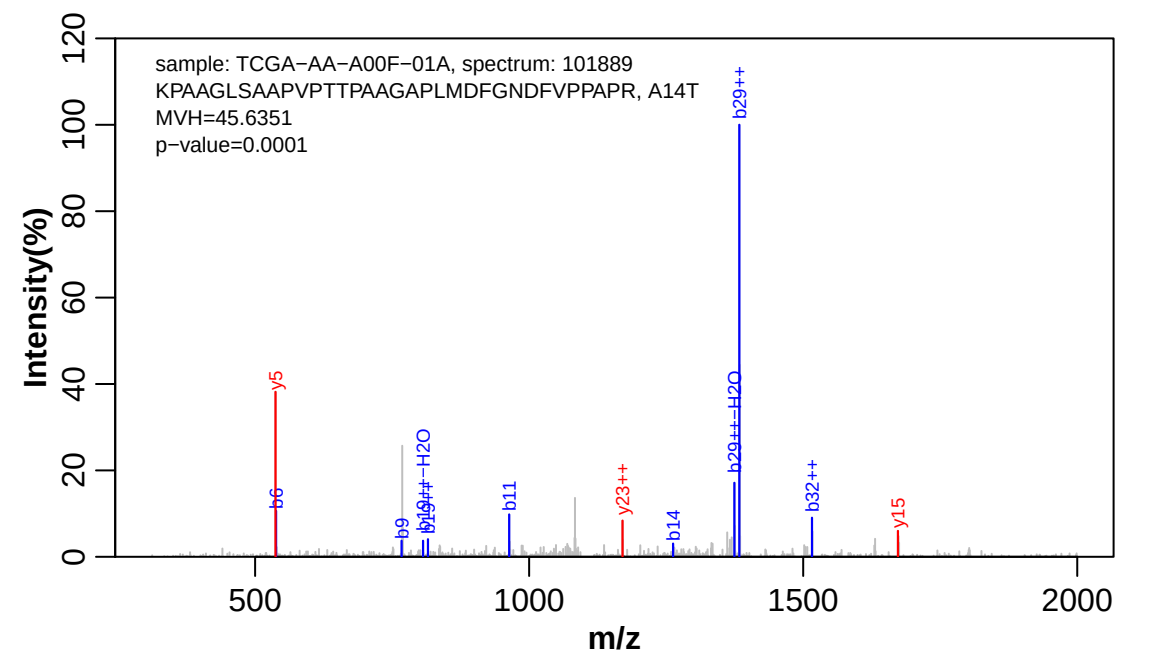

sample: TCGA−AA−A00F−01A, spectrum: 117432
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=49.2357
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
b6−NH3
y7
b15++
y15++
b14++
b5++−NH3
y4
b5
y5−NH3
b6
y1++
b12++−NH3
b16++
b17++
b10−NH3
b11
b13

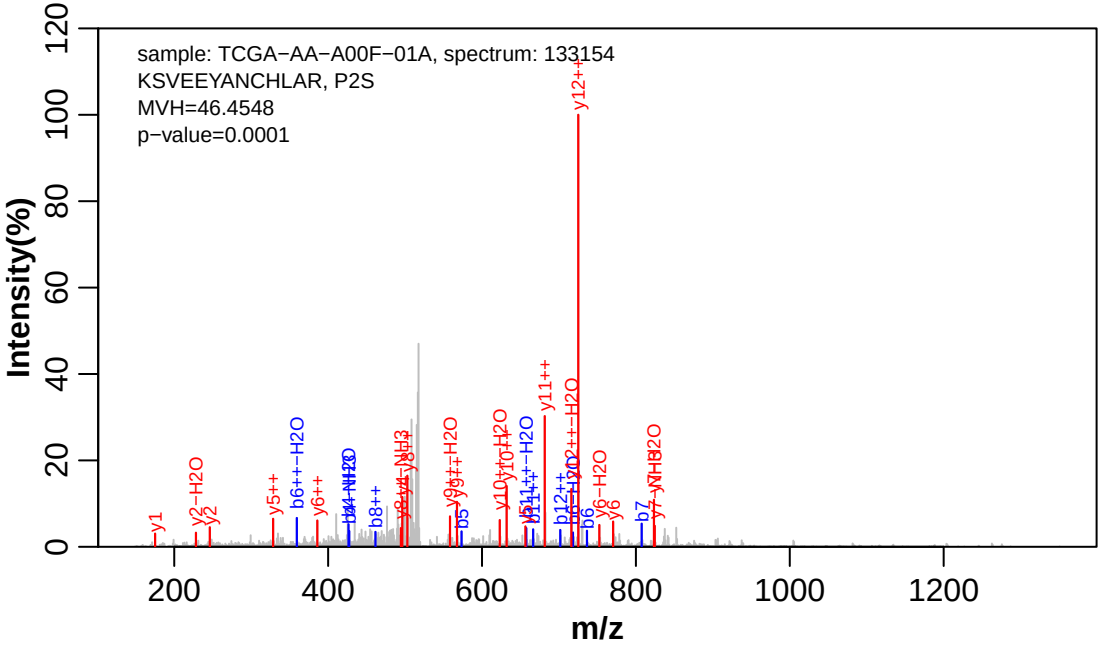

sample: TCGA−AA−A00F−01A, spectrum: 73049
KADLLNR, V5I
MVH=31.1300
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b1
y1−NH3
y1
y2−NH3
b3
y3
y4
y5
y6−H2O
y6

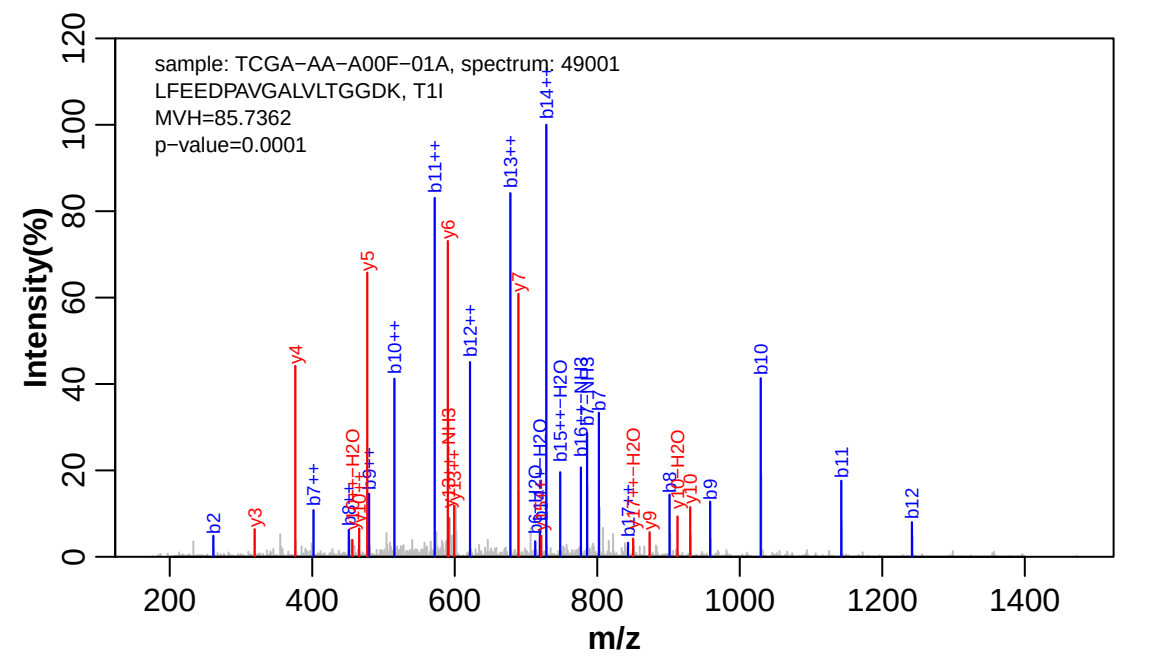

sample: TCGA−AA−A00F−01A, spectrum: 109342
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=67.4884
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7+++−H2O
b4−NH3
b12+++
b13+++
b9++−H2O
b9++−NH3
b14+++
b12++
b13++
b14++−H2O
b14++
b16++−NH3
b9−NH3−H2O
y7

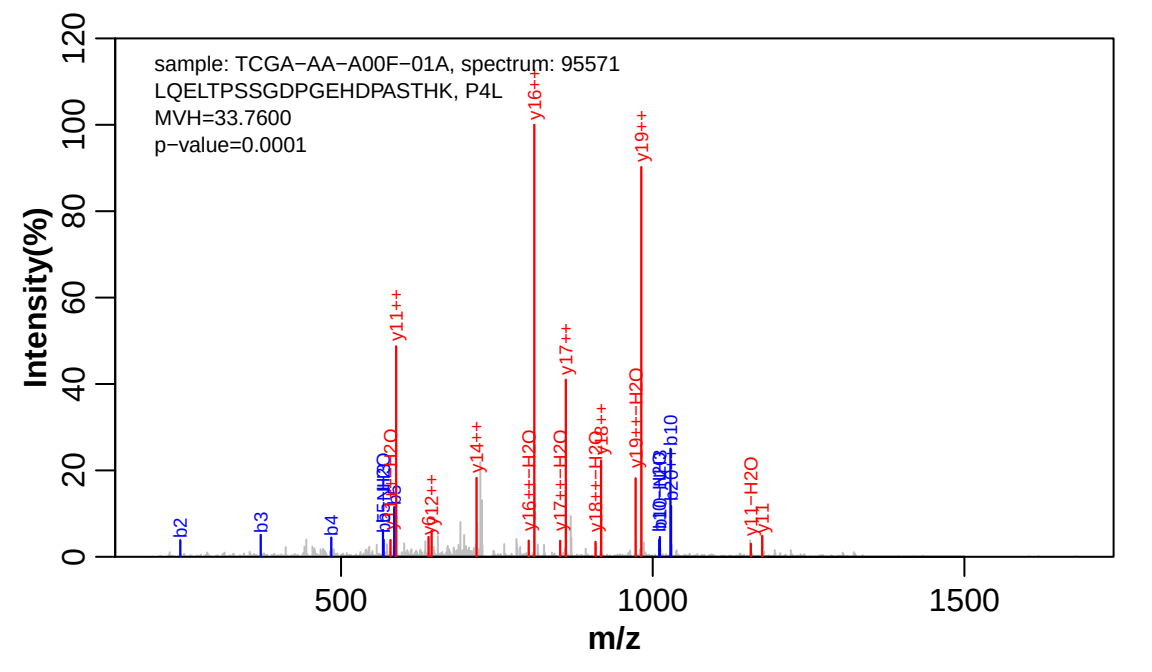

sample: TCGA−AA−A00F−01A, spectrum: 127251
KFFGSLPDSWAR, S12R
MVH=56.8462
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b8++
b7++
y3
b8++
b4−H2O
b9++
y4
b5−H2O
y1−b5
b10++
y5
b6
y6−H2O
y6
0
20
40
60
80
100
120
200
400
600
800
1000

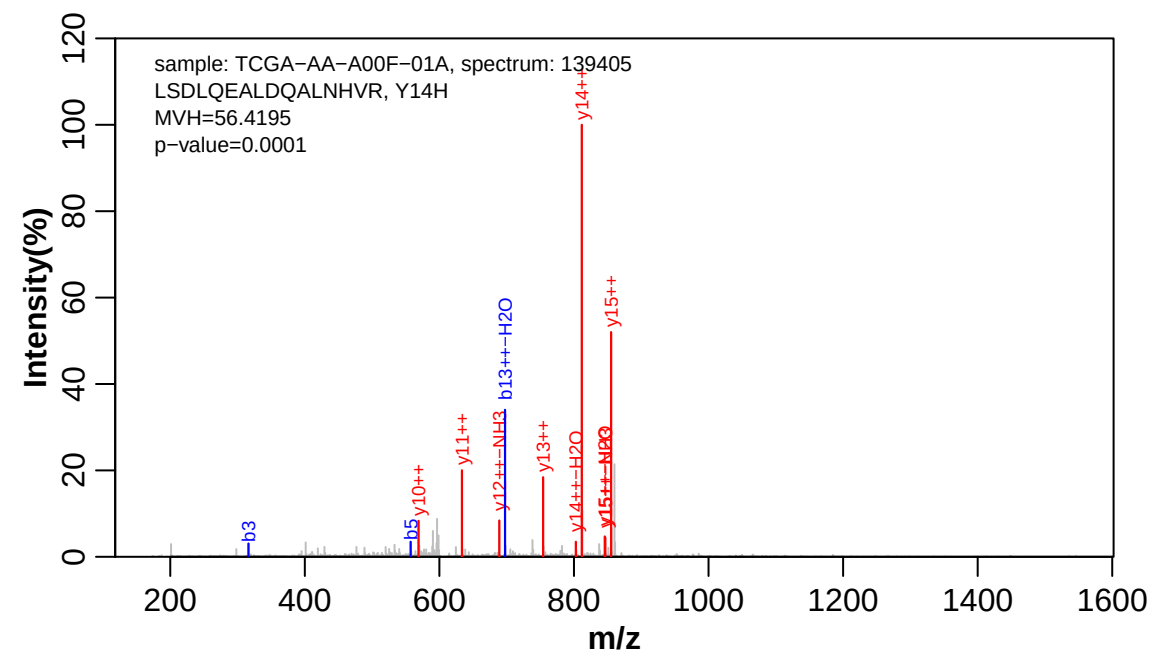

sample: TCGA−AA−A00F−01A, spectrum: 117612
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV V10A
MVH=54.9778
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b29++
b21++−NH3
y7
b17++
b21++−H2O
b22++
b10++
y10
b26++−NH3
b26++
b27++
b28++
b30++
b10++
b11++
b12++
b13++
b14++−NH3

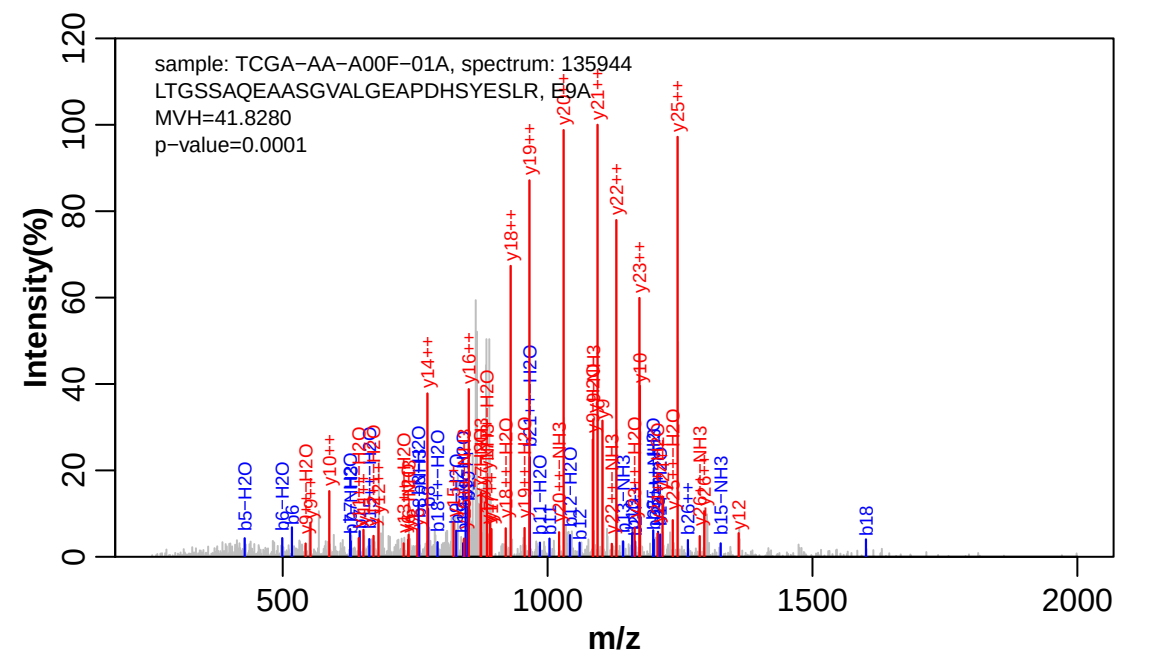

sample: TCGA−AA−A00F−01A, spectrum: 101889
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=45.6351
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b29++
b29++−H2O
y5
b6
b9
b10++
b10++−H2O
b11
y23++
b14
b32++
y15

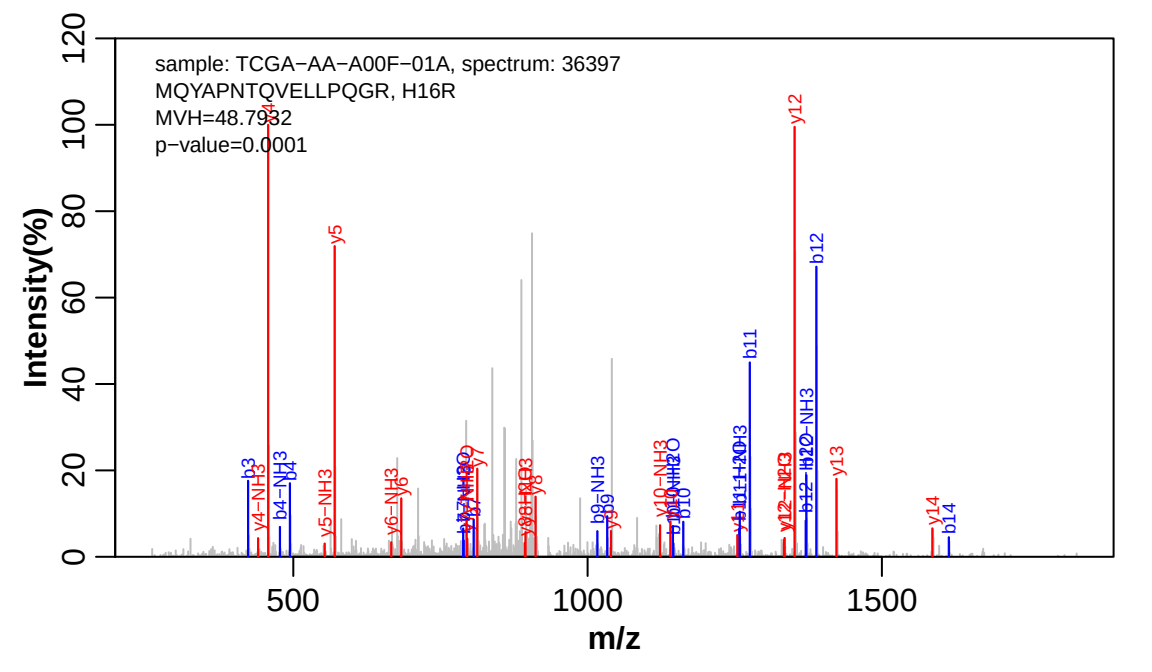

sample: TCGA−AA−A00F−01A, spectrum: 133154
KSVEEYANCHLAR, P2S
MVH=46.4548
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2−H2O
y2
y5++
b6++−H2O
y6++
b4++−H2O
b8++
y8++−NH3
y8++
y9++−H2O
b5
y10++−H2O
y10++
b11++−H2O
b11++
y11++
b12++
b6
y6−H2O
y6
b7
y7++−NH3
y7++−H2O
y12++

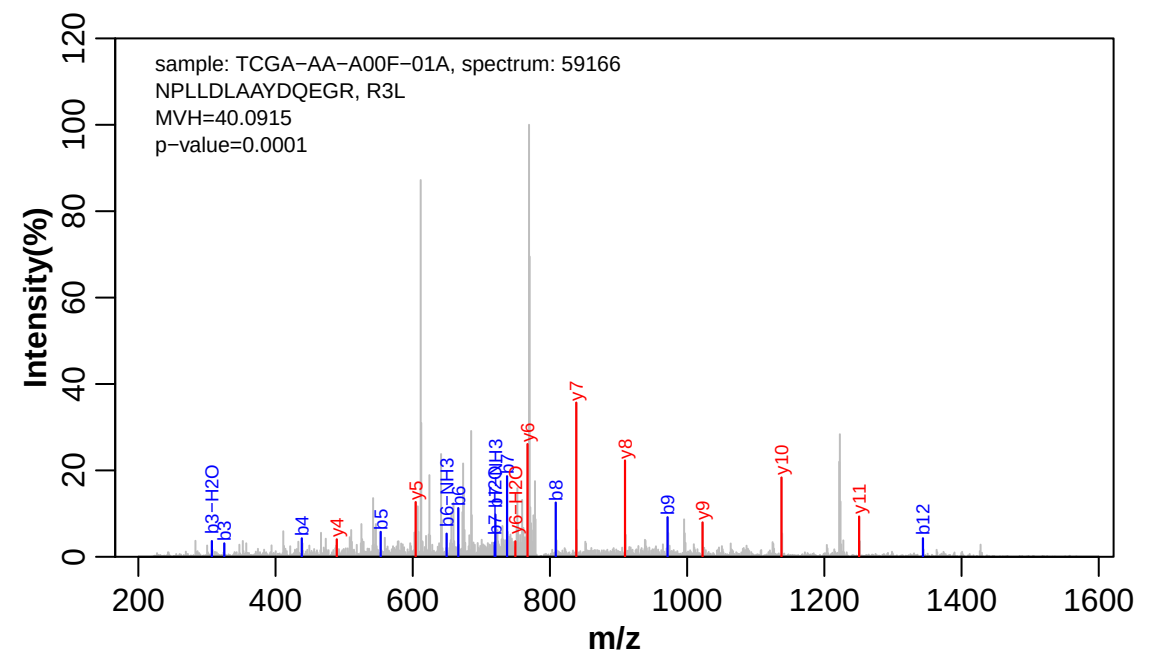

sample: TCGA−AA−A00F−01A, spectrum: 49001
LFEEDPAVGALVLTGGDK, T1I
MVH=85.7362
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b7++
b8++−H2O
y5
b9++
b10++
b11++
y6
b12++
b13++
y7
b14++
b15++−H2O
b16++−NH3
b7
b17++−H2O
y9
b8
y10−H2O
y10
b9
b10
b11
b12

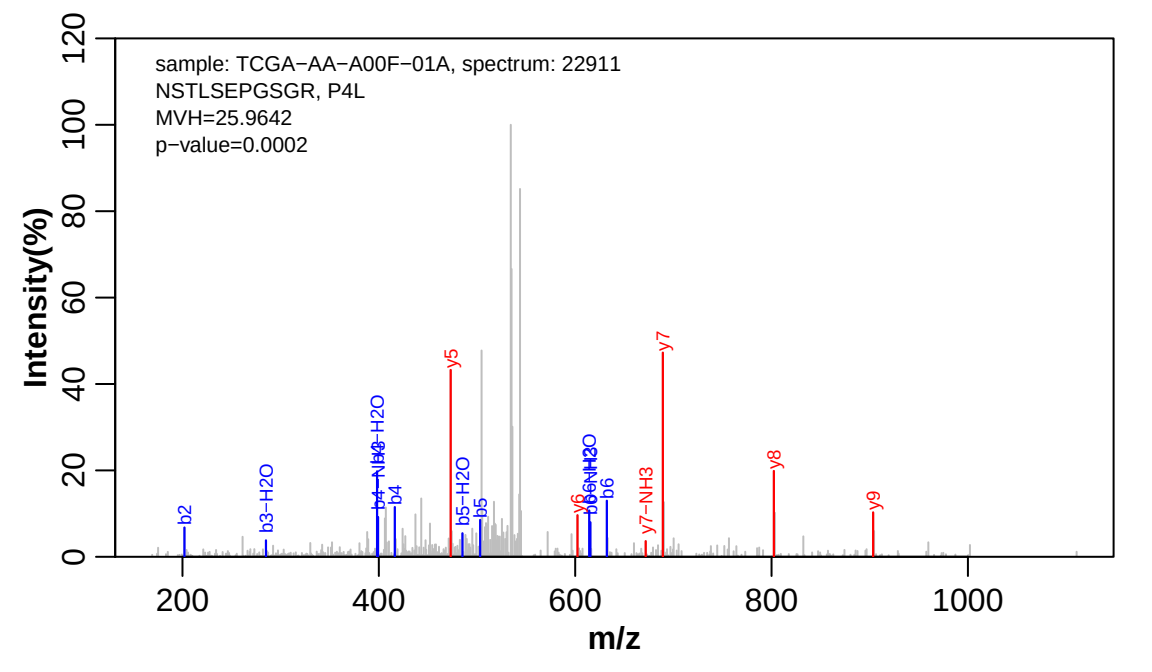

sample: TCGA−AA−A00F−01A, spectrum: 95571
LQELTPSSGDPGEHDPASTHK, P4L
MVH=33.7600
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4
y11++
y12++
y14++
y16++−H2O
y16++
y17++−H2O
y17++
y18++−H2O
y18++
y19++−H2O
y19++
b10
y11−H2O
y11

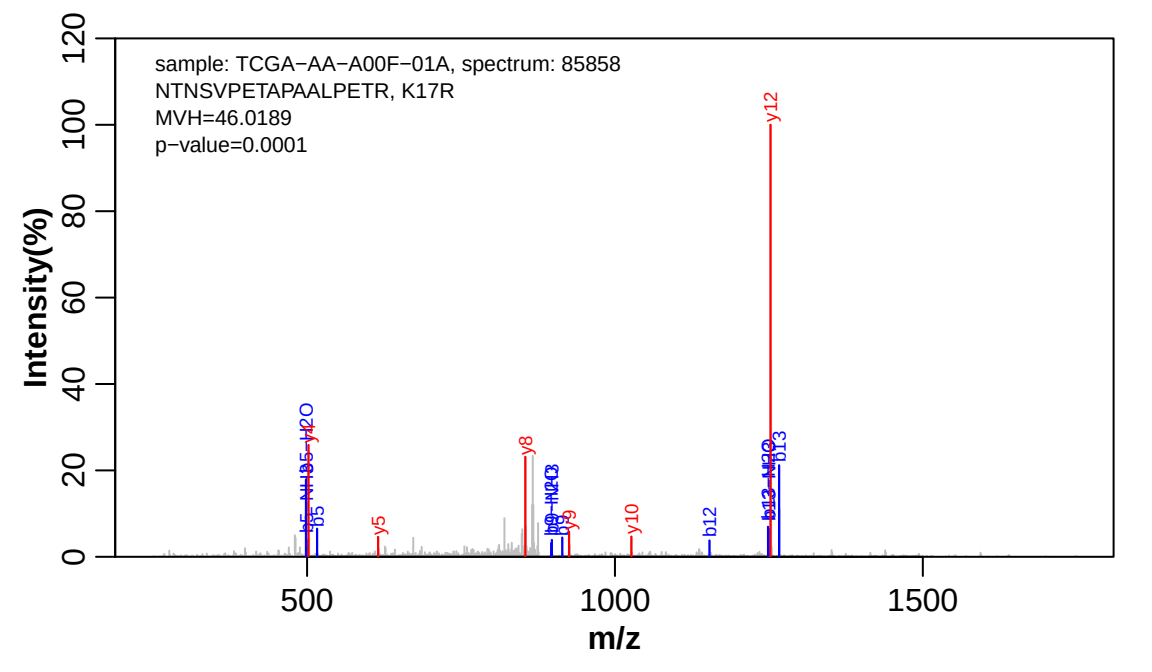

sample: TCGA−AA−A00F−01A, spectrum: 139405
LSDLQEALDQALNHVR, Y14H
MVH=56.4195
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b5
y10++
y11++
y12++−NH3
b13++−H2O
y13++
y14++−H2O
y14++
y15++−NH3
y15++

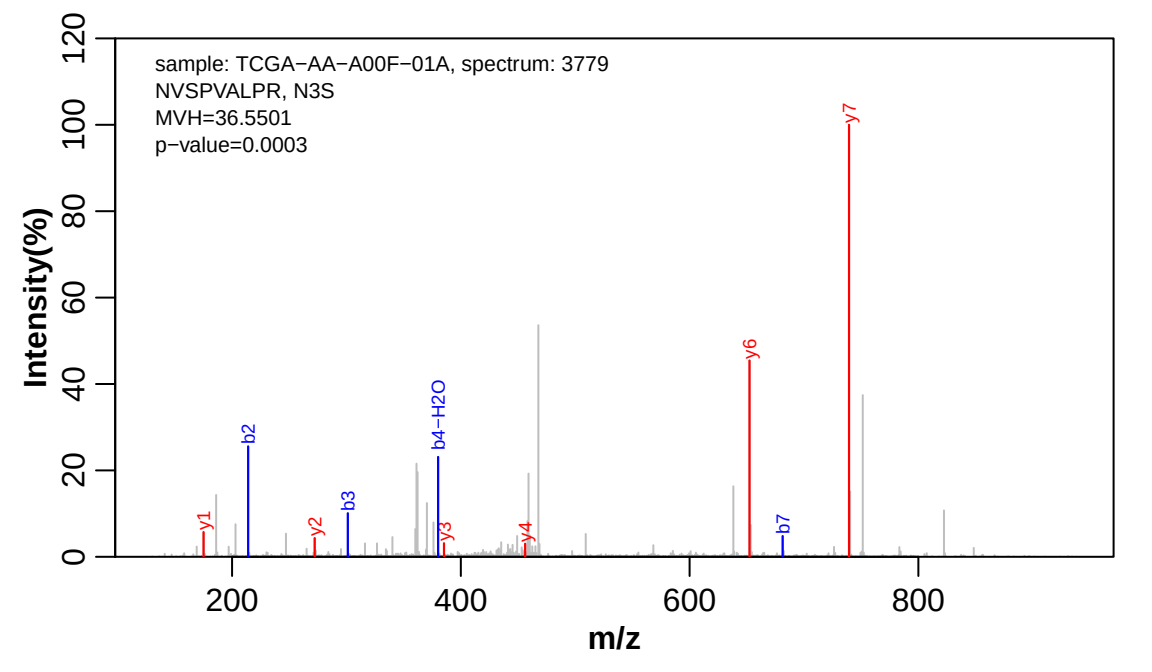

sample: TCGA−AA−A00F−01A, spectrum: 135944
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=41.8280
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5−H2O
b6−H2O
y9+−H2O
y10++
y14++
y16++
y18++
y19++
y20++
y21++
y22++
y23++
y25++
b11−H2O
b12−H2O
b12
y22++−NH3
y26+−NH3
b15−NH3
y12
b18

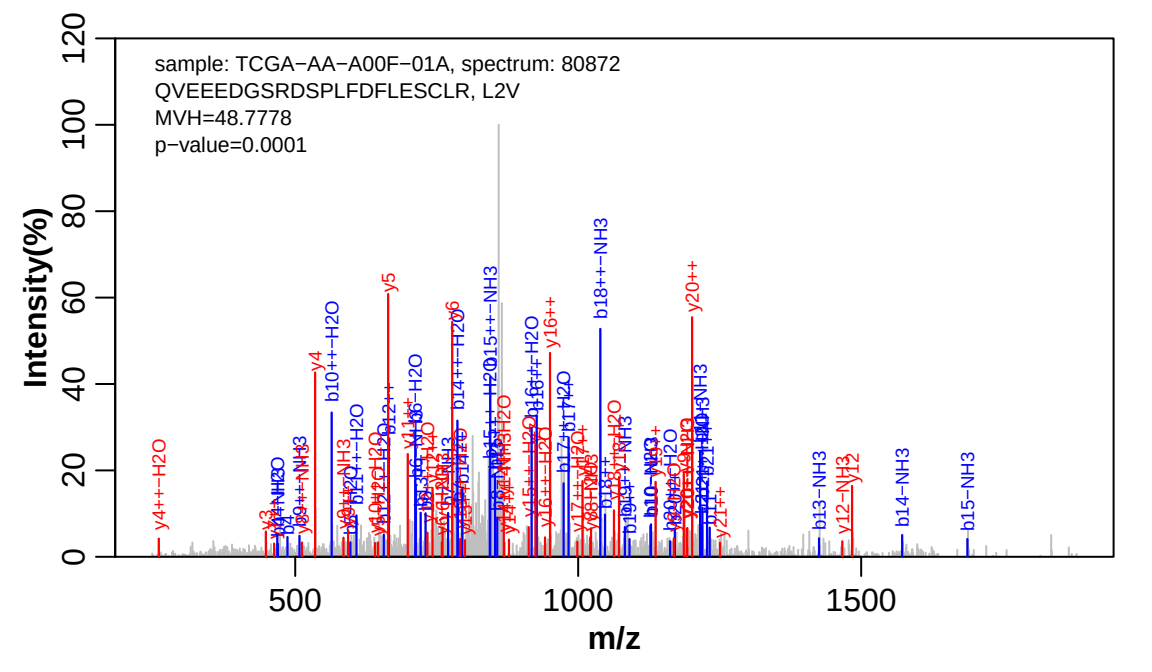

sample: TCGA−AA−A00F−01A, spectrum: 36397
MQYAPNTQVELLPQGR, H16R
MVH=48.7932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b11
y13
y14
b14
b3
y4−NH3
b4
b4−NH3
y5−NH3
y6
y6−NH3
y7
b5
b5−NH3
y9
y10
y10−NH3
b10
b10−H2O
b12−NH3
y12−NH3
y12−H2O

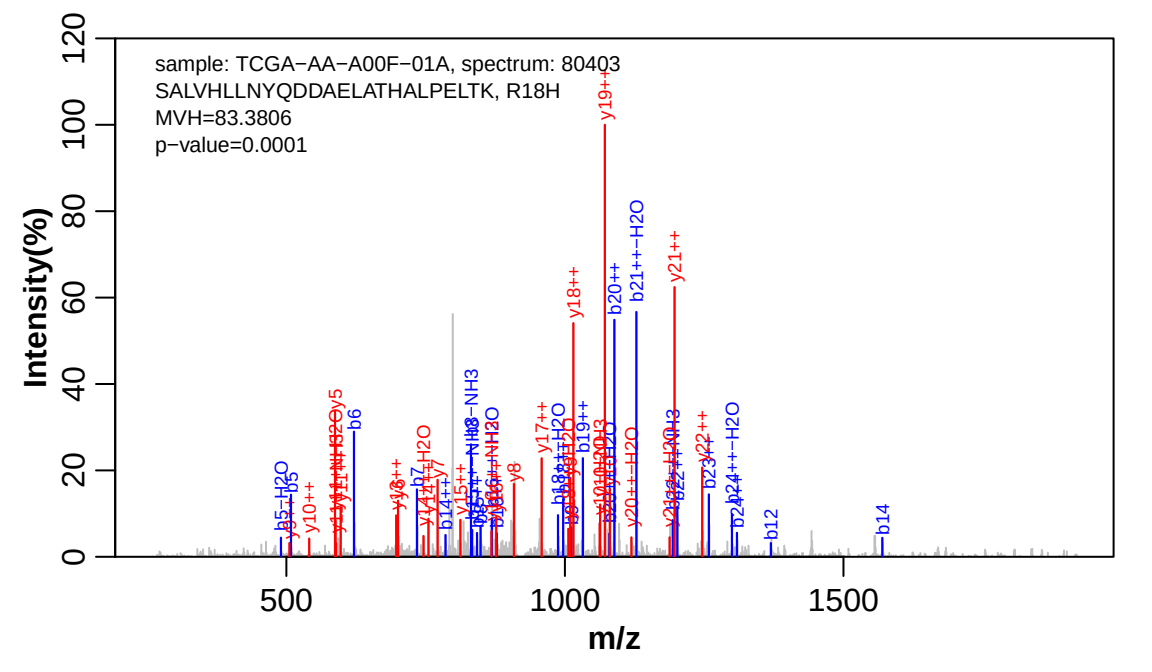

sample: TCGA−AA−A00F−01A, spectrum: 59166
NPLLDLAAYDQEGR, R3L
MVH=40.0915
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4
y4
b5
y5
b6−NH3
b6
y6
y6−H2O
b8
y7
y8
b9
y9
y10
y11
b12

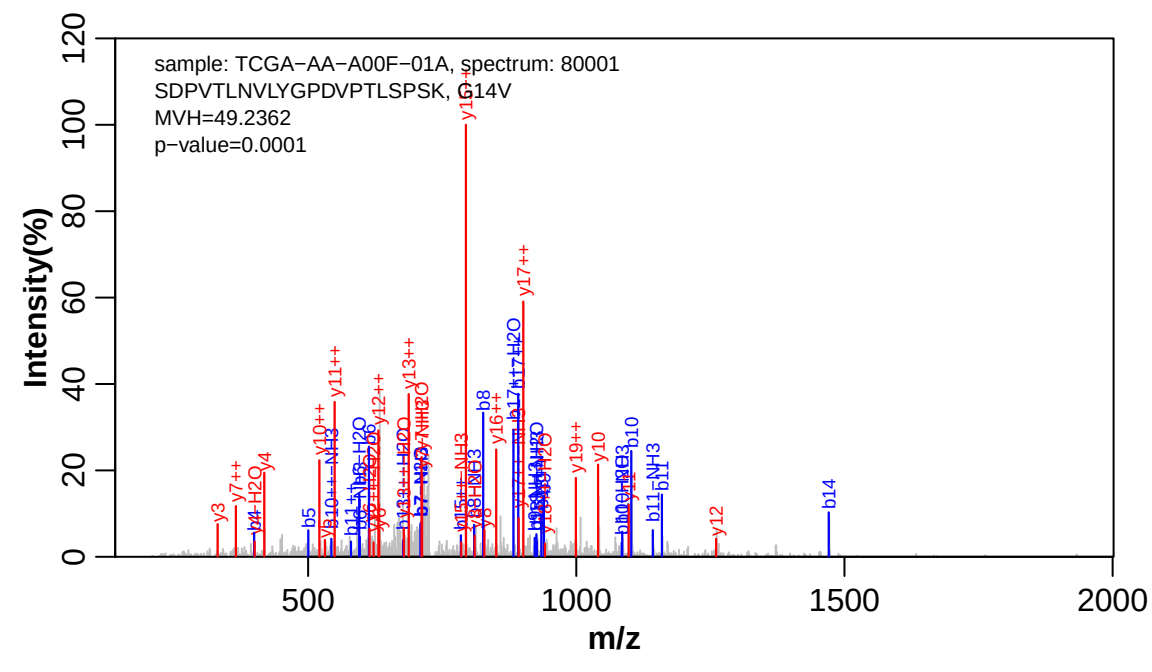

sample: TCGA−AA−A00F−01A, spectrum: 22911
NSTLSEPGSGR, P4L
MVH=25.9642
p−value=0.0002
Intensity(%)
m/z
b2
b3−H2O
b4
b5−H2O
b5
y5
y6
y7−NH3
b6
y7
y8
y9

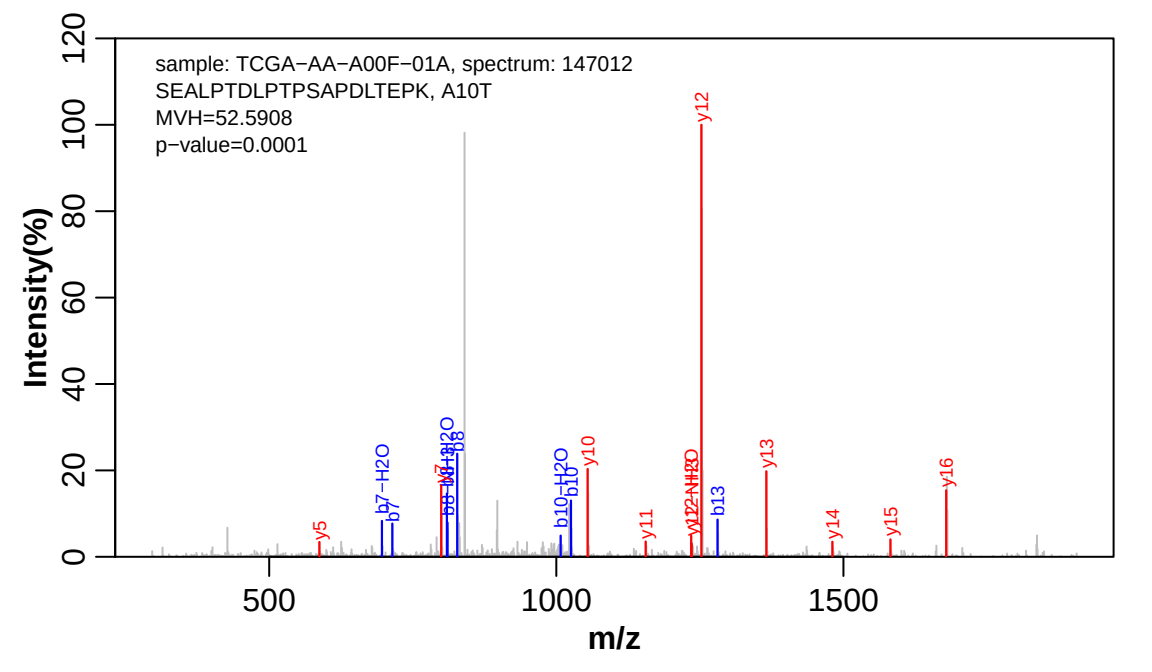

sample: TCGA−AA−A00F−01A, spectrum: 85858
NTNSVPETAPAALPETR, K17R
MVH=46.0189
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
y12
y8
y5
y10
b12
b13
b5
y9

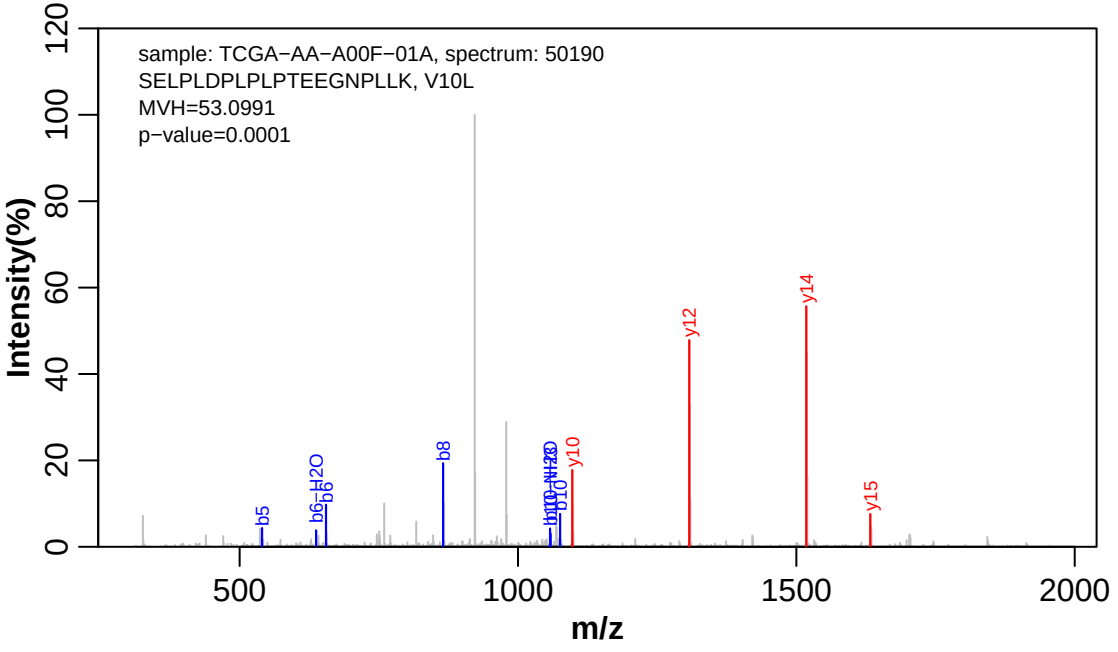

sample: TCGA−AA−A00F−01A, spectrum: 3779
NVSPVALPR, N3S
MVH=36.5501
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
b4−H2O
y3
y4
y6
b7
y7

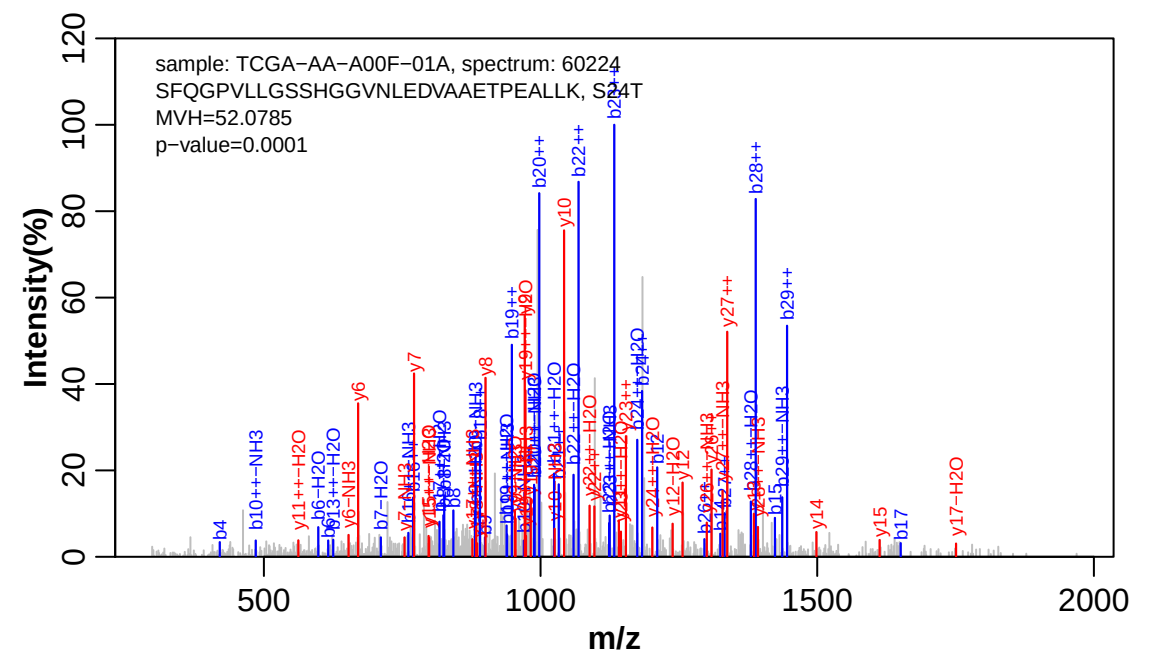

sample: TCGA−AA−A00F−01A, spectrum: 80872
QVEEEDGSRDSPLFDFLESCLR, L2V
MVH=48.7778
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4++−H2O
y4
b10++−H2O
y5
b14++−H2O
b15++−H2O
b15++−NH3
y16++
b18++−NH3
y20++
b13−NH3
y12−NH3
b14−NH3
b15−NH3

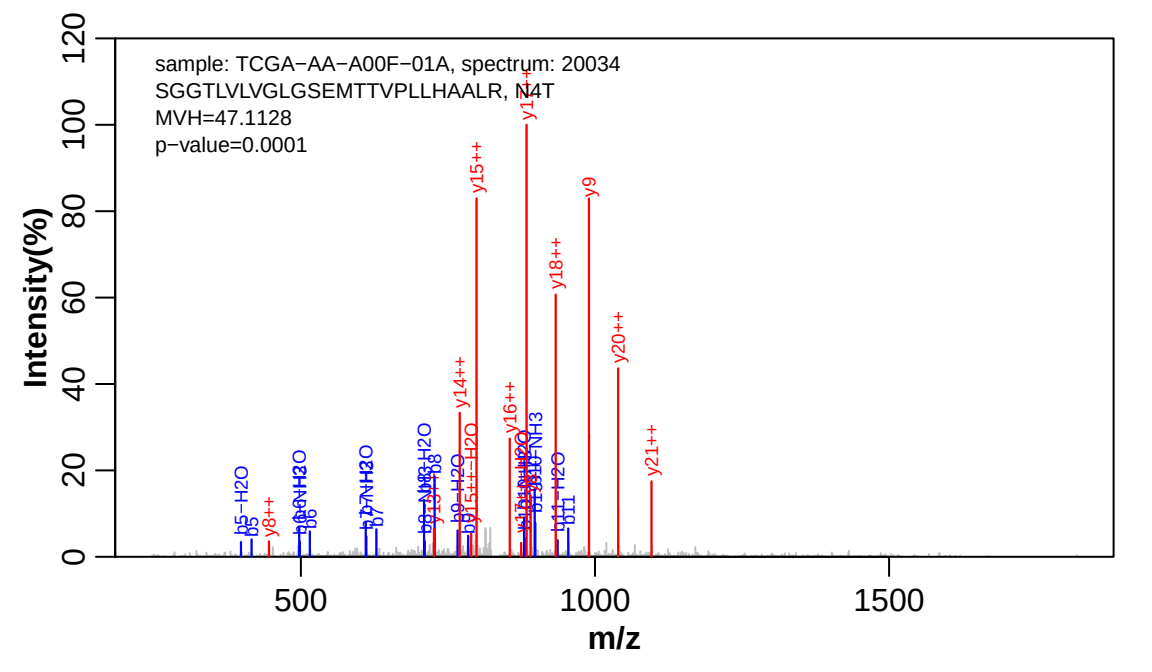

sample: TCGA−AA−A00F−01A, spectrum: 80403
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=83.3806
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y19++
y18++
y21++
b20++
b21++−H2O
b14
b12
b24++−H2O
y5
b6
y8
y17++
y10++
b5−H2O
b3
y15++
b19++
y20++−H2O
b23++
y22++

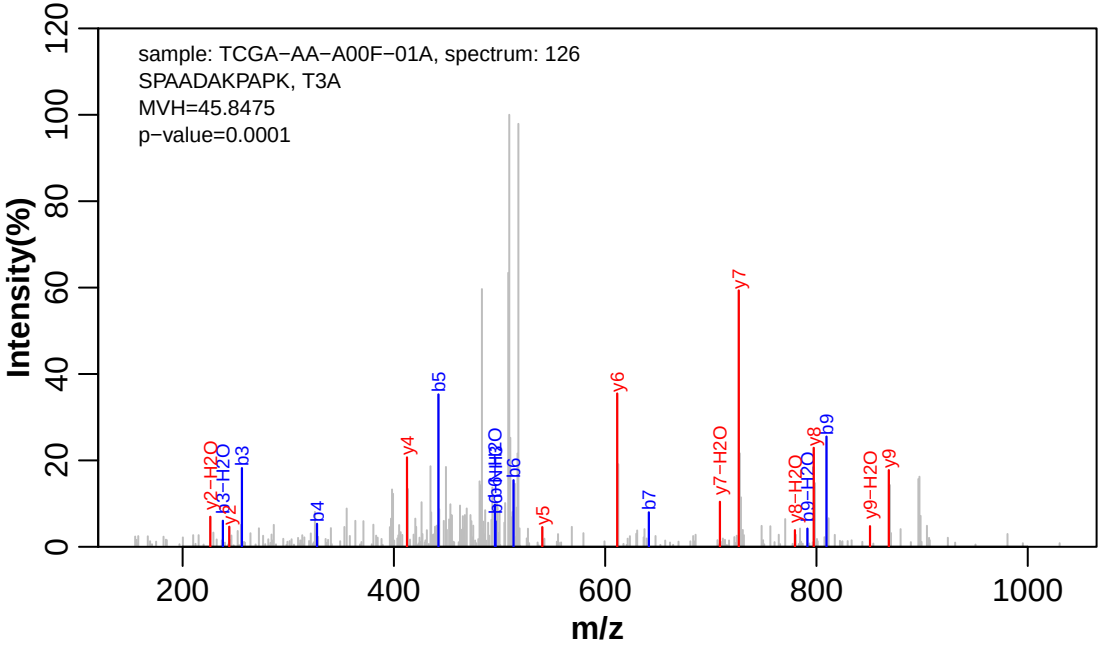

sample: TCGA−AA−A00F−01A, spectrum: 80001
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=49.2362
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y15++
y17++
y13++
y11++
y10++
y12++
y19++
y16++
y10
y7++
y4
y3
b5
b8
b10
b11
b14
y12

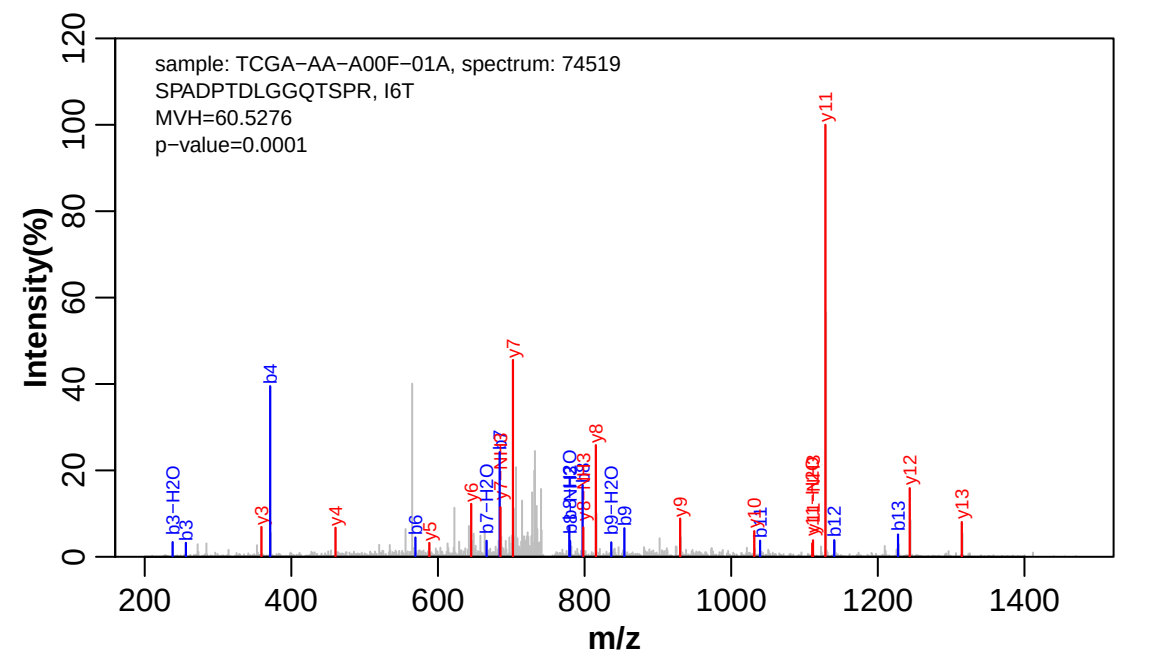

sample: TCGA−AA−A00F−01A, spectrum: 147012
SEALPTDLPTPSAPDLTEPK, A10T
MVH=52.5908
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b7−H2O
b7
y10
b10−H2O
b10
y11
b13
y12
y13
y14
y15
y16

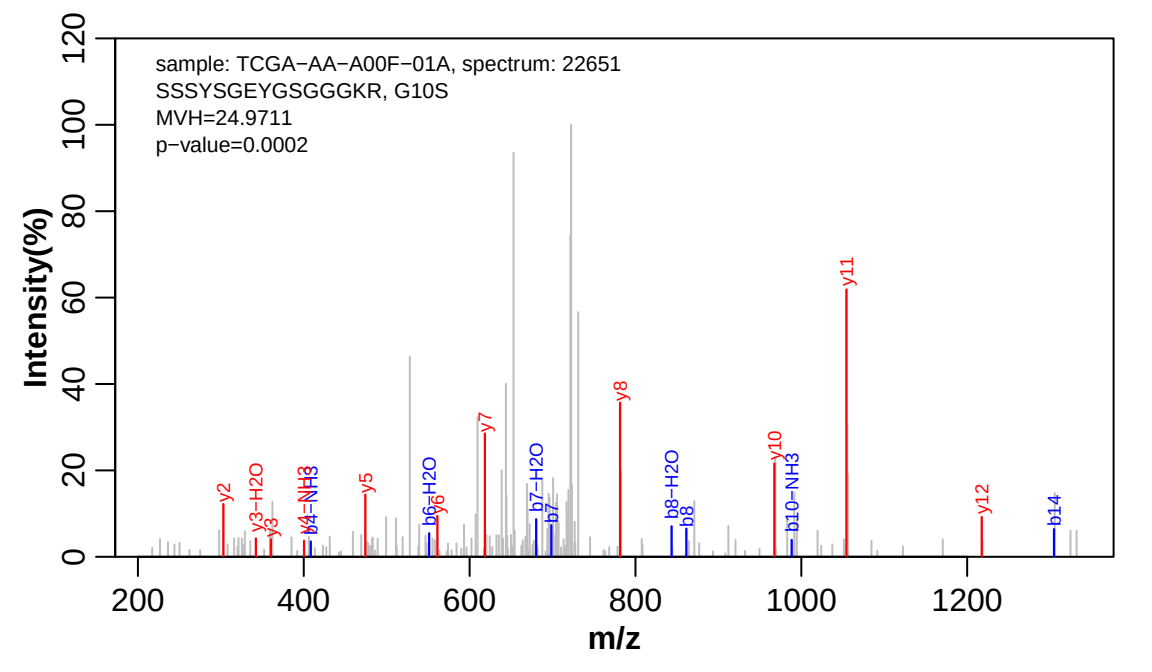

sample: TCGA−AA−A00F−01A, spectrum: 50190
SELPLDPLPLPTEEGNPLLK, V10L
MVH=53.0991
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6−H2O
b6
b8
b10−NH3
b10−H2O
b10
y10
y12
y14
y15

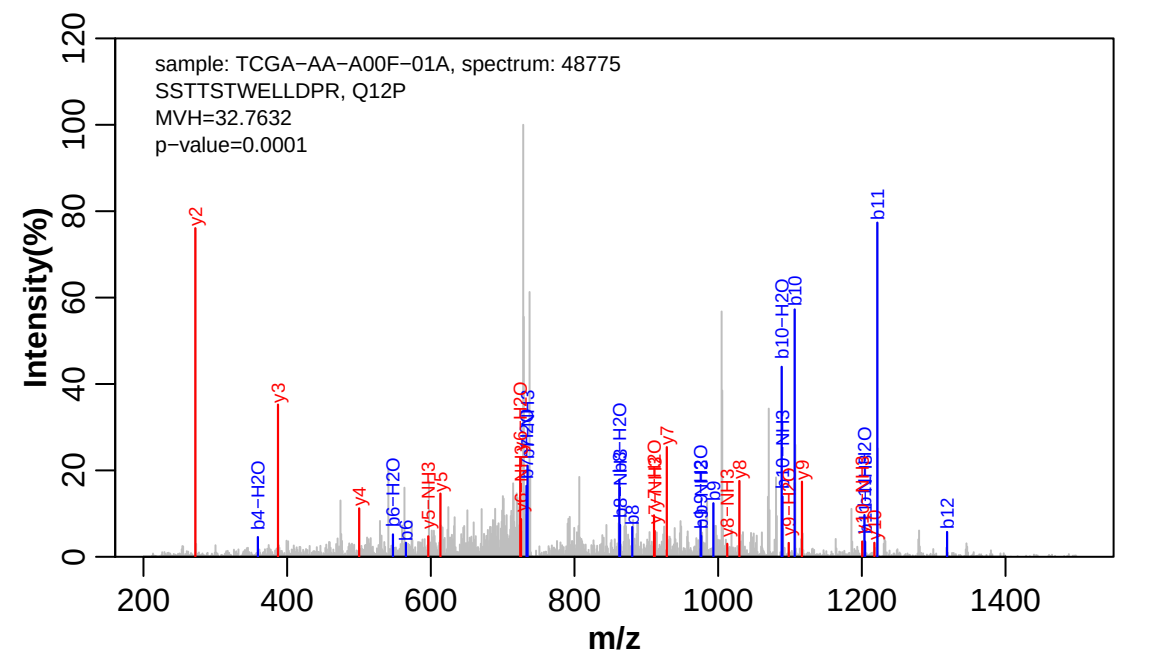

sample: TCGA−AA−A00F−01A, spectrum: 60224
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=52.0785
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
b10++−NH3
y11++−H2O
b6−H2O
b13++−H2O
y6−NH3
b7−H2O
y6
y7
y8
b19++
b20++
y10
b22++
b28++
b29++−NH3
y14
y15
b17
y17−H2O

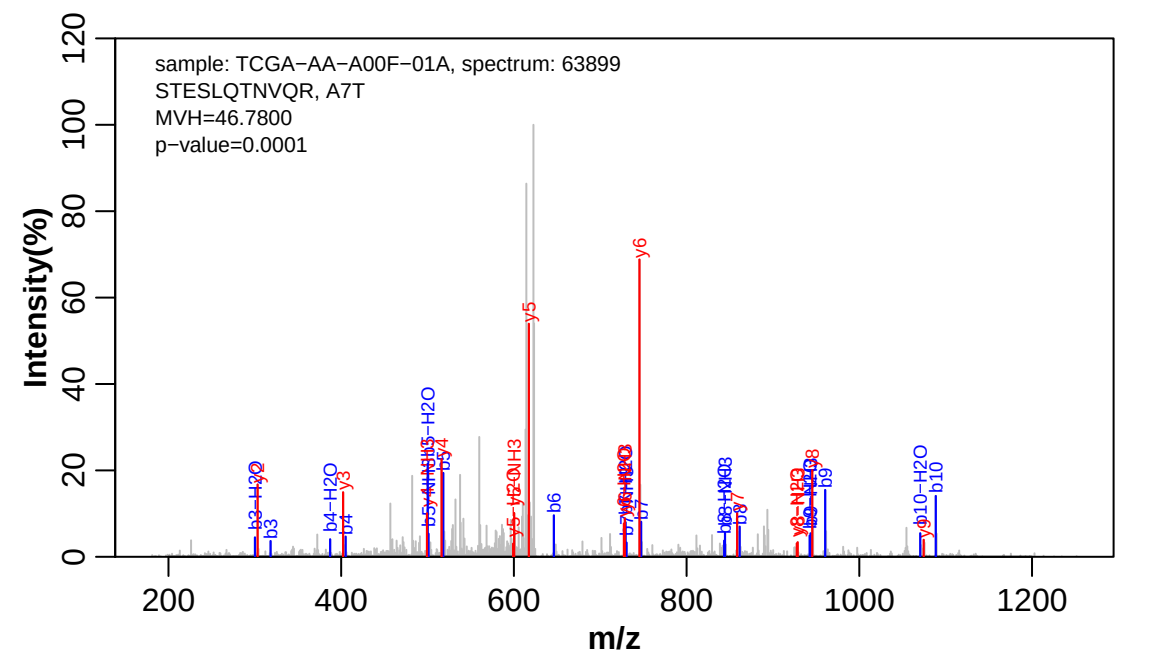

sample: TCGA−AA−A00F−01A, spectrum: 20034
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=47.1128
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y14++
y16++
y21++
y8++
b5−H2O
b5
b6
b7
b9−H2O
b9
b11−H2O
b11

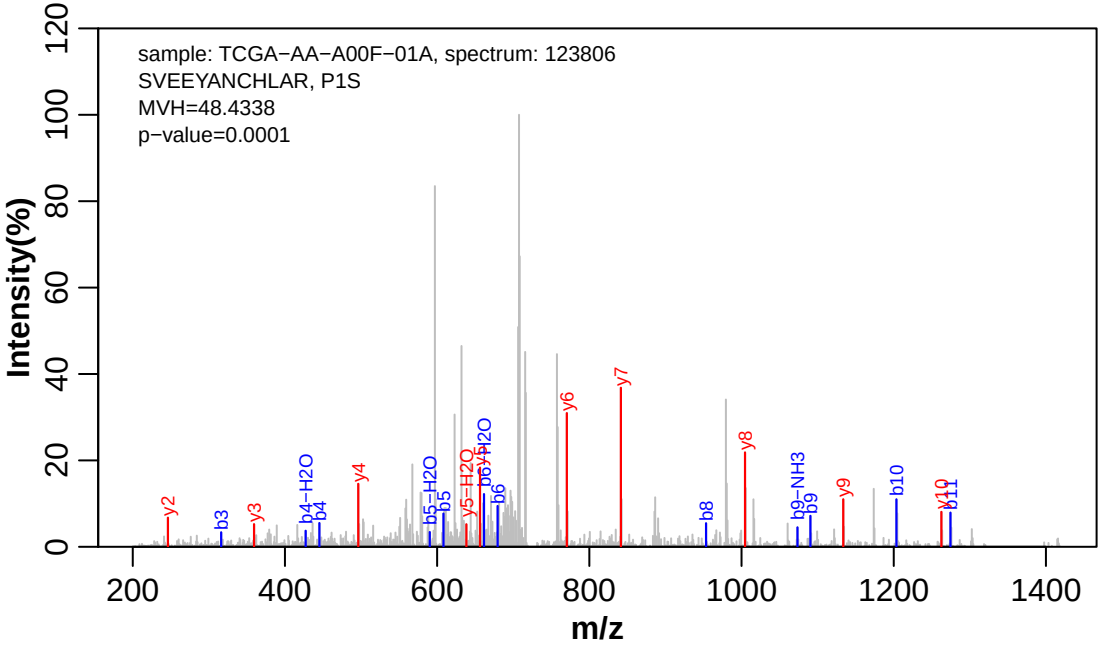

sample: TCGA−AA−A00F−01A, spectrum: 126
SPAADAKPAPK, T3A
MVH=45.8475
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y2−H2O
y3−H2O
y2
b3
b4
y4
b5
b6
y5
y6
b7
y7
y7−H2O
y8−H2O
b8−H2O
y8
b9
y9−H2O
y9

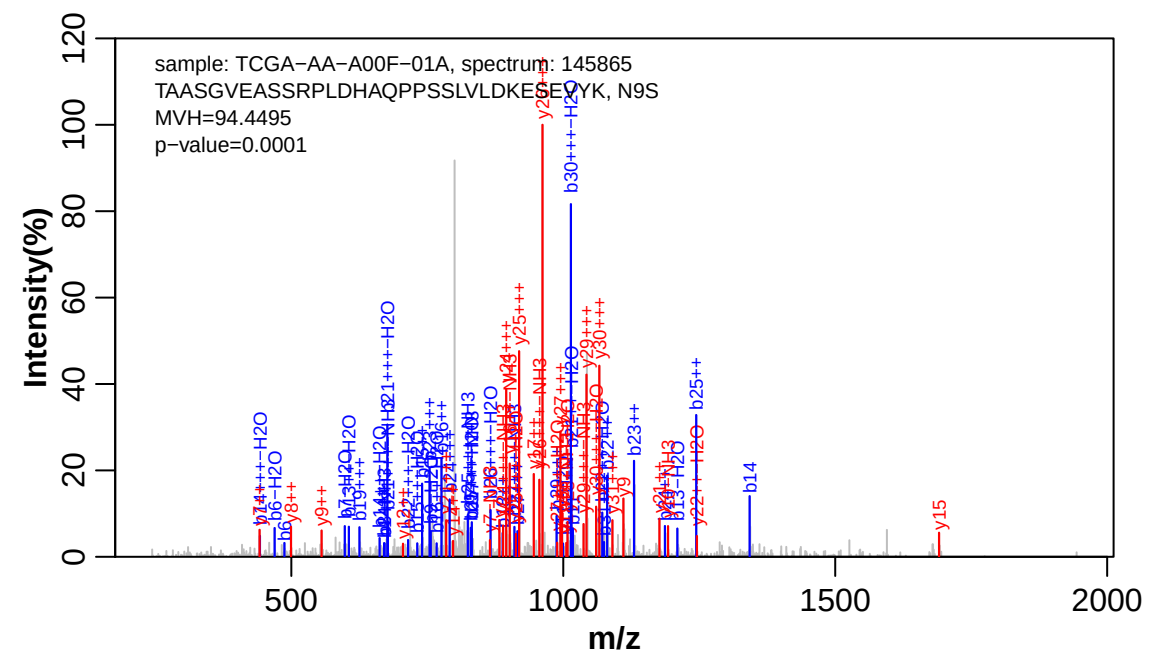

sample: TCGA−AA−A00F−01A, spectrum: 74519
SPADPTDLGGQTSPR, I6T
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y3
b4
y4
b6
y5
y6
b7−H2O
y7
y8
b9−H2O
b9
y9
y10
b11
y11
y11−NH3
b12
y12
b13
y13

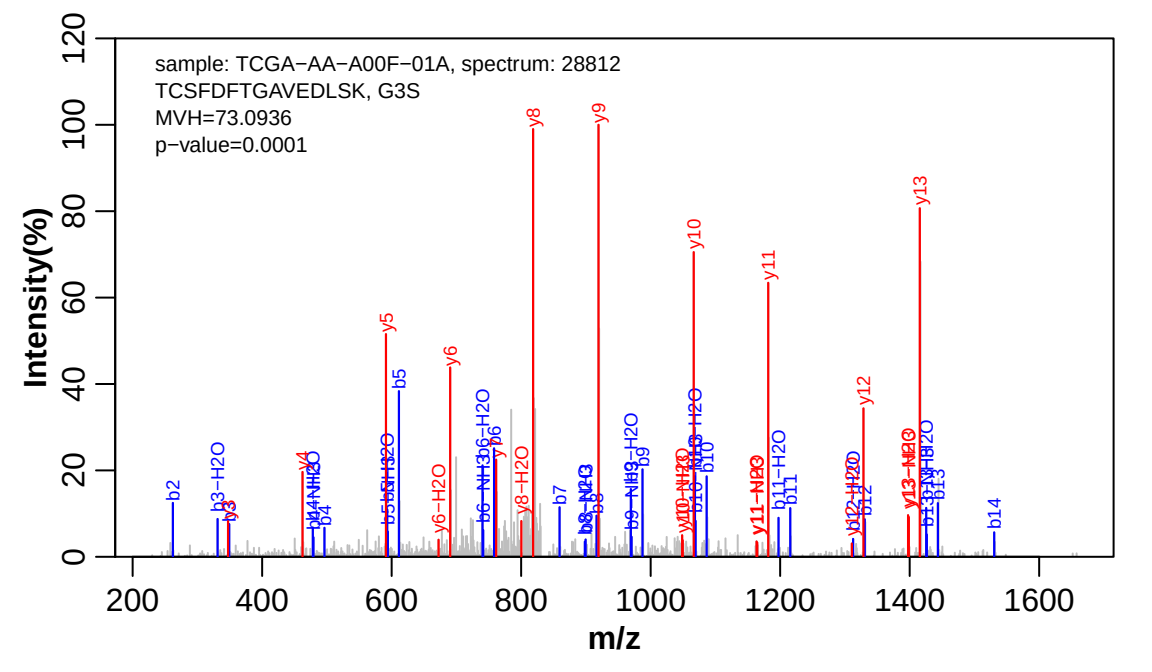

sample: TCGA−AA−A00F−01A, spectrum: 22651
SSSYSGEYGSGGGKR, G10S
MVH=24.9711
p−value=0.0002
Intensity(%)
m/z
y2
y3−H2O
y3
b4−NH3
b4
y5
b6−H2O
y6
y7
b7−H2O
b7
y8
b8−H2O
b8
y10
b10−NH3
y11
y12
b14

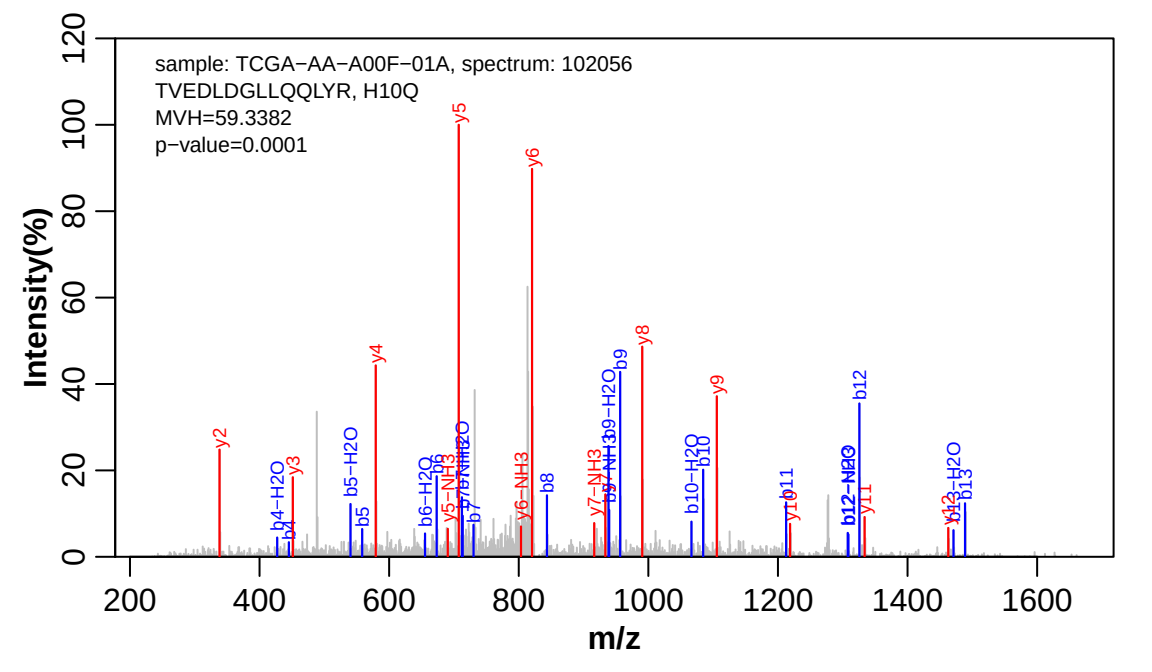

sample: TCGA−AA−A00F−01A, spectrum: 48775
SSTTSTWELLDPR, Q12P
MVH=32.7632
p−value=0.0001
Intensity(%)
m/z
y2
y3
b4−H2O
y4
b6−H2O
b6
y5−NH3
y5
b11
b10−H2O
b10
b10−NH3
y9
b12

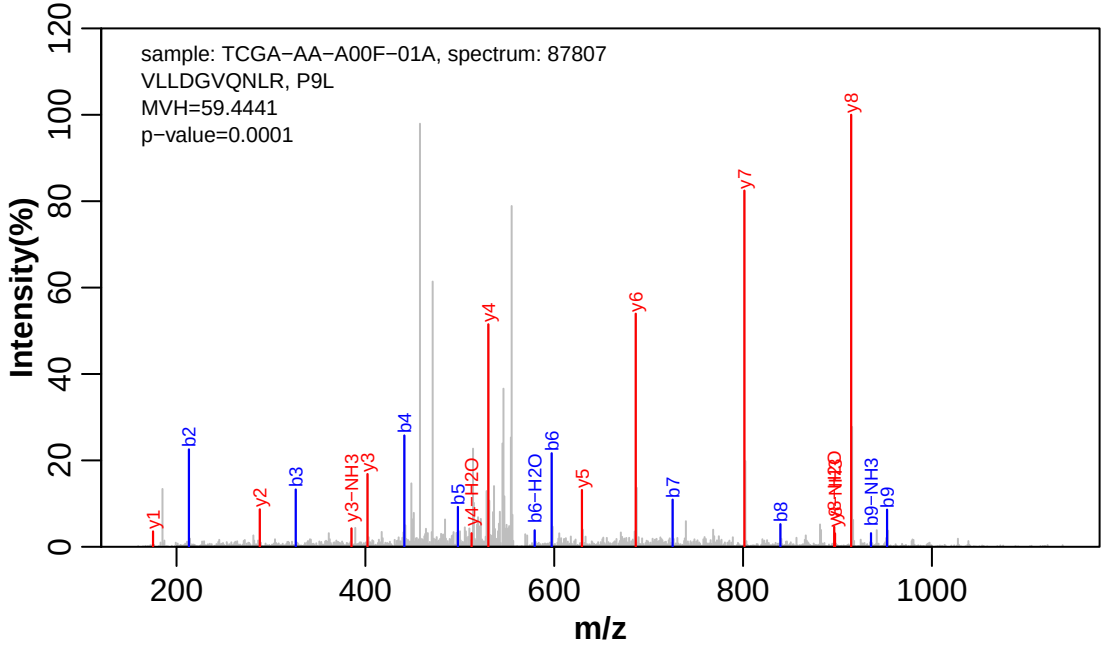

sample: TCGA−AA−A00F−01A, spectrum: 63899
STESLQTNVQR, A7T
MVH=46.7800
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
b3
b4−H2O
y3
b4
b5−H2O
b5
y5−H2O
y5
b6
y6
b7
b8−H2O
b8
b9
y8−NH3
y8
y9
y10−H2O
b10

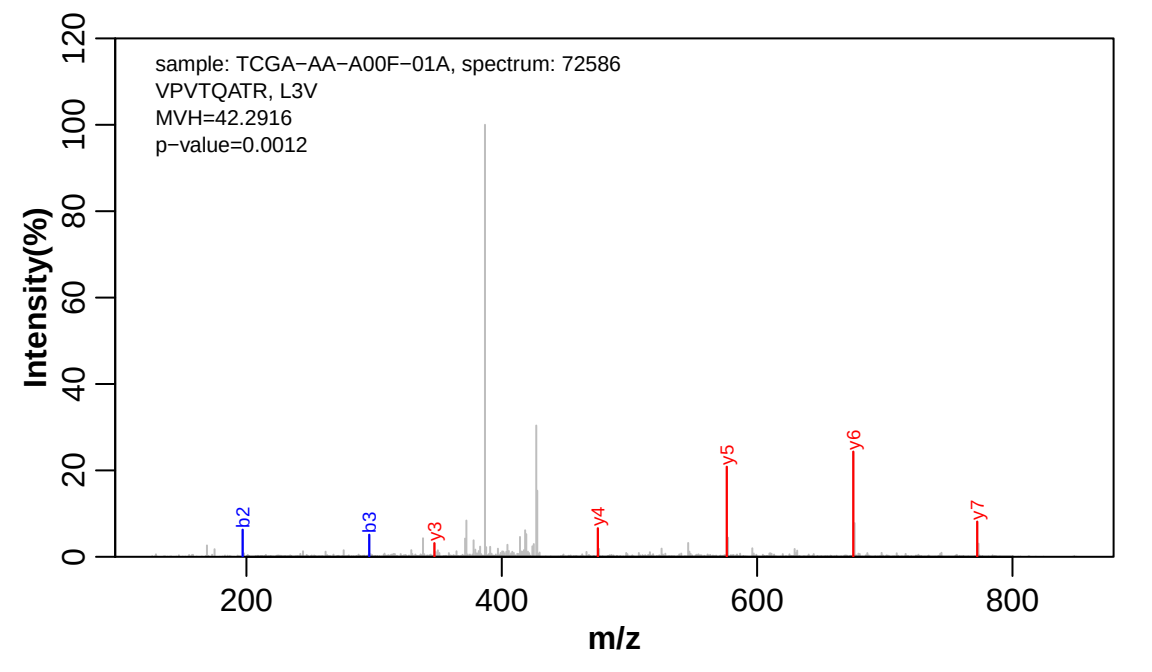

sample: TCGA−AA−A00F−01A, spectrum: 123806
SVEEYANCHLAR, P1S
MVH=48.4338
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y2
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−H2O
b6−H2O
b6
y6
y7
b8
y8
b8−NH3
b9
y9
b10
y10
b11

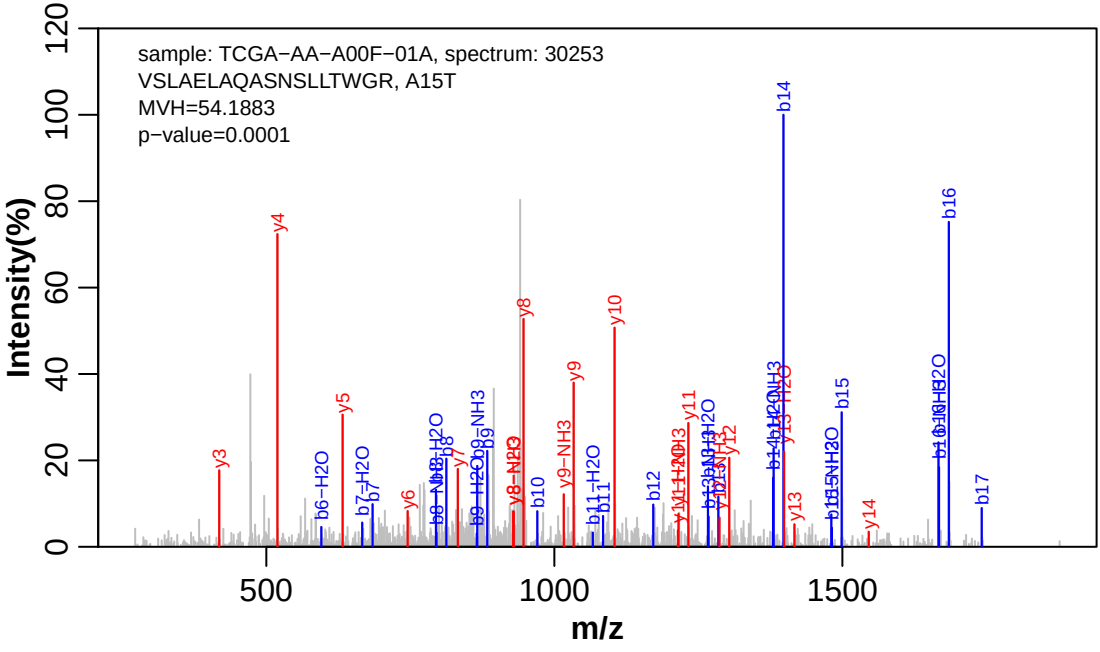

sample: TCGA−AA−A00F−01A, spectrum: 145865
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=94.4495
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y15
b14
y25+++
y30+++
b30+++−H2O
y29+++
y28++
b25++
b23++
y9++
b8++
b6−H2O

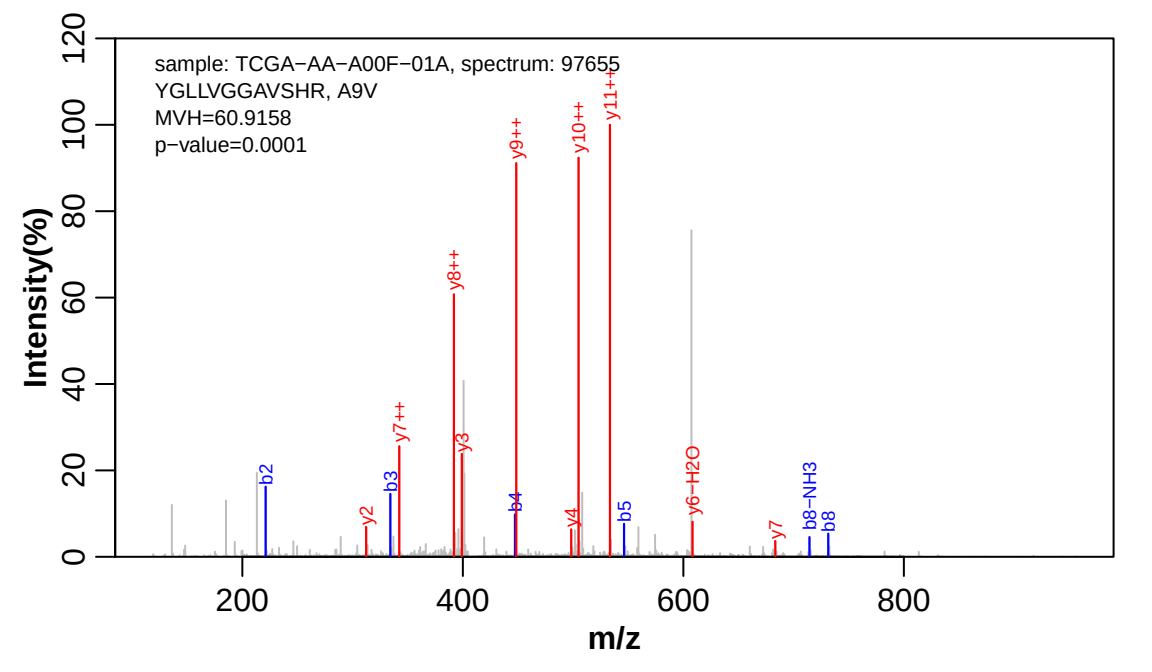

sample: TCGA−AA−A00F−01A, spectrum: 28812
TCSFDFTGAVEDLSK, G3S
MVH=73.0936
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
y3
y4
b4
y5
b5
y6
y6−H2O
b6−NH3
y8
y8−H2O
b7
y9
b9−NH3
b9−H2O
y10
y10−H2O
b10−H2O
y11
b11−H2O
b11
y12
y12−H2O
b12
y13
y13−H2O
b13
b14

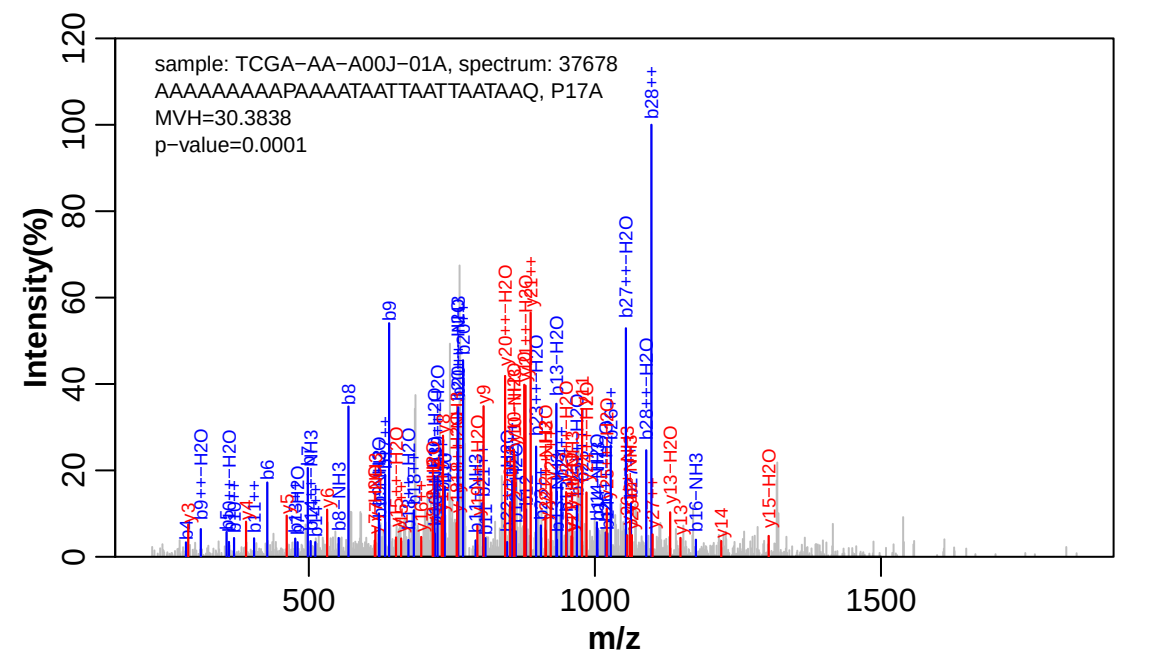

sample: TCGA−AA−A00F−01A, spectrum: 102056
TVEDLDGLLQQLYR, H10Q
MVH=59.3382
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4−H2O
b4
y4
b5−H2O
b5
b6−H2O
b6
y5
y5−NH3
b7
b7−NH3
b7−H2O
y6
y6−NH3
b8
y7−NH3
b9−NH3
b9−H2O
b9
y8
b10−H2O
b10
y9
y10
y11
b12
b13−H2O
b13

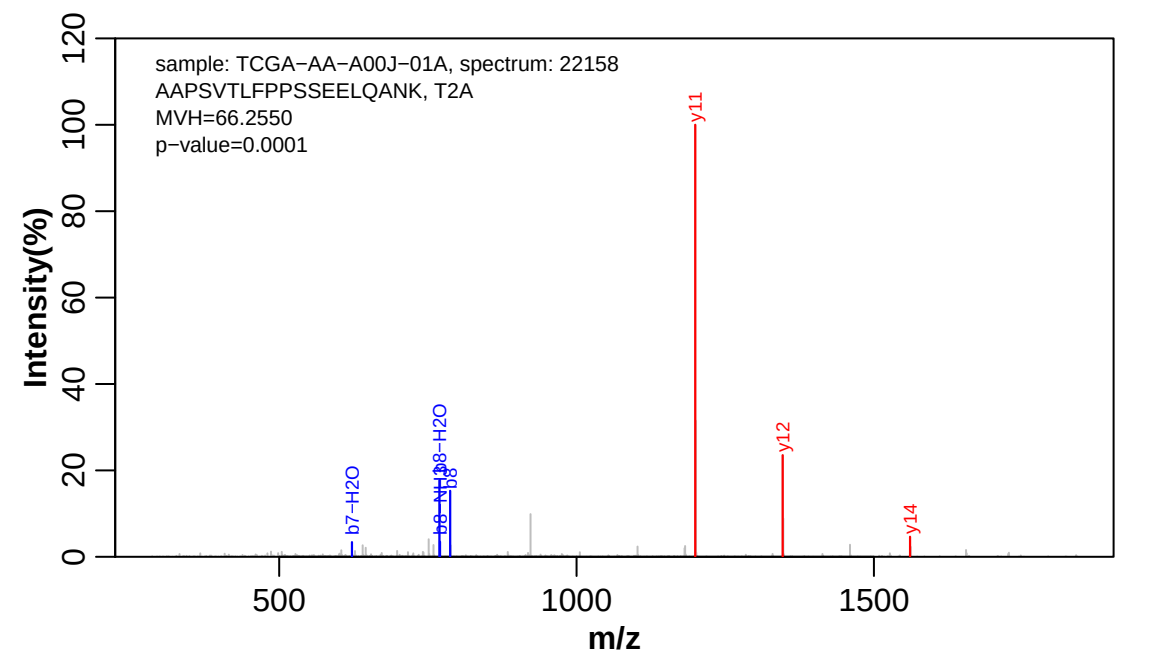

sample: TCGA−AA−A00F−01A, spectrum: 87807
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4−H2O
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9−NH3
b9

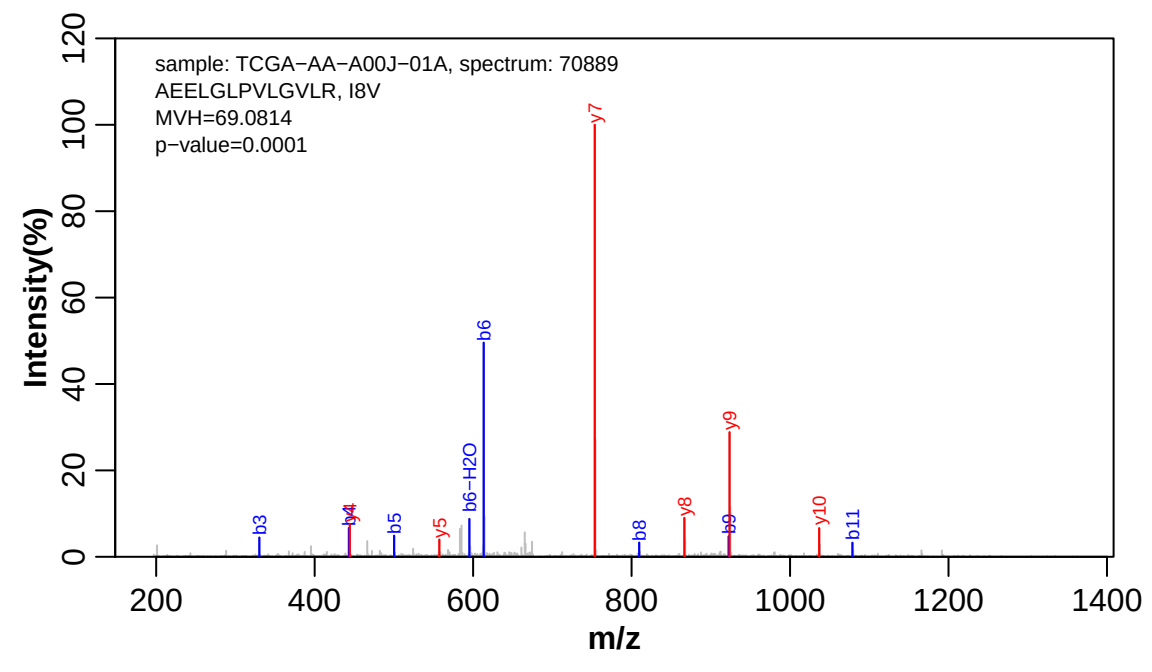

sample: TCGA−AA−A00F−01A, spectrum: 72586
VPVTQATR, L3V
MVH=42.2916
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

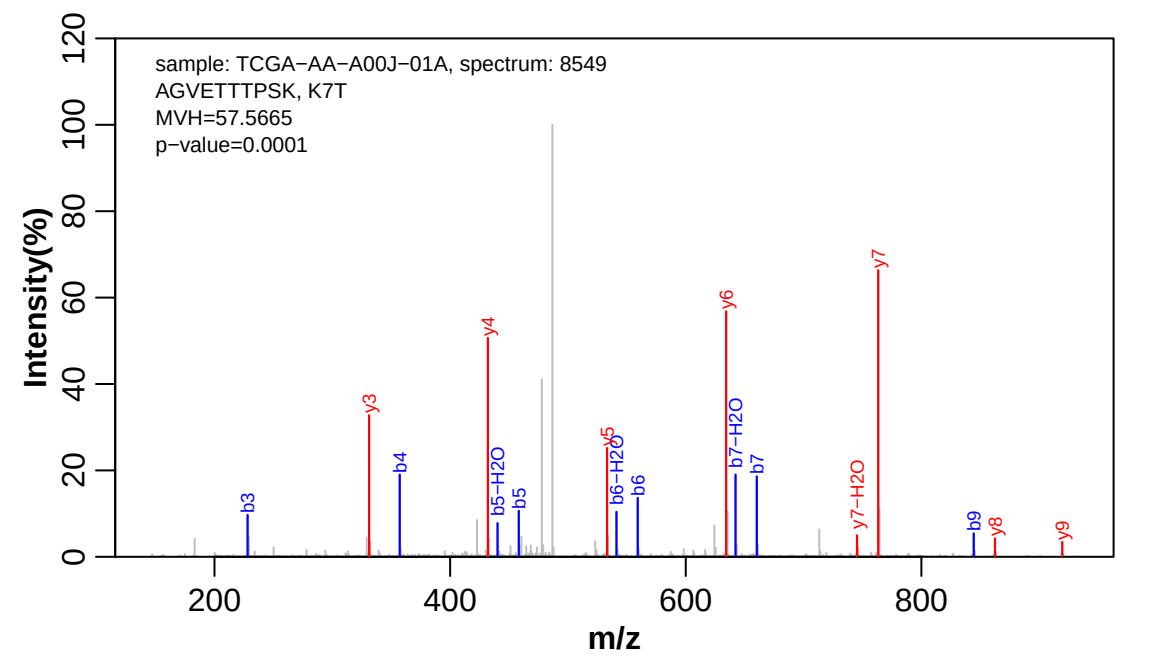

sample: TCGA−AA−A00F−01A, spectrum: 30253
VSLAELAQASNSLLTWGR, A15T
MVH=54.1883
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
b6−H2O
b7
b7−H2O
y6
y8−NH3
b9−H2O
b9−NH3
y8
b10
y9−NH3
y9
b11−H2O
y10
b12
y11
b14
b15
y13
y14
b16
b17

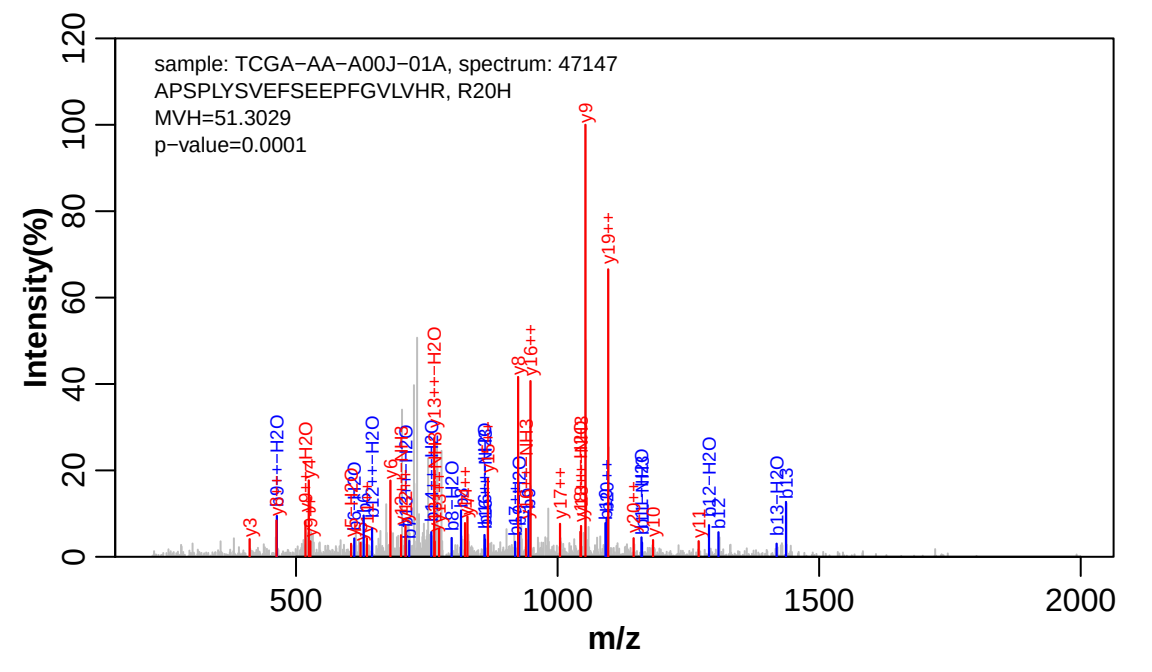

sample: TCGA−AA−A00F−01A, spectrum: 97655
YGLLVGGAVSHR, A9V
MVH=60.9158
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y7++
y8++
y3
b4
y9++
y4
y10++
b5
y11++
y6−H2O
y7
b8−NH3
b8

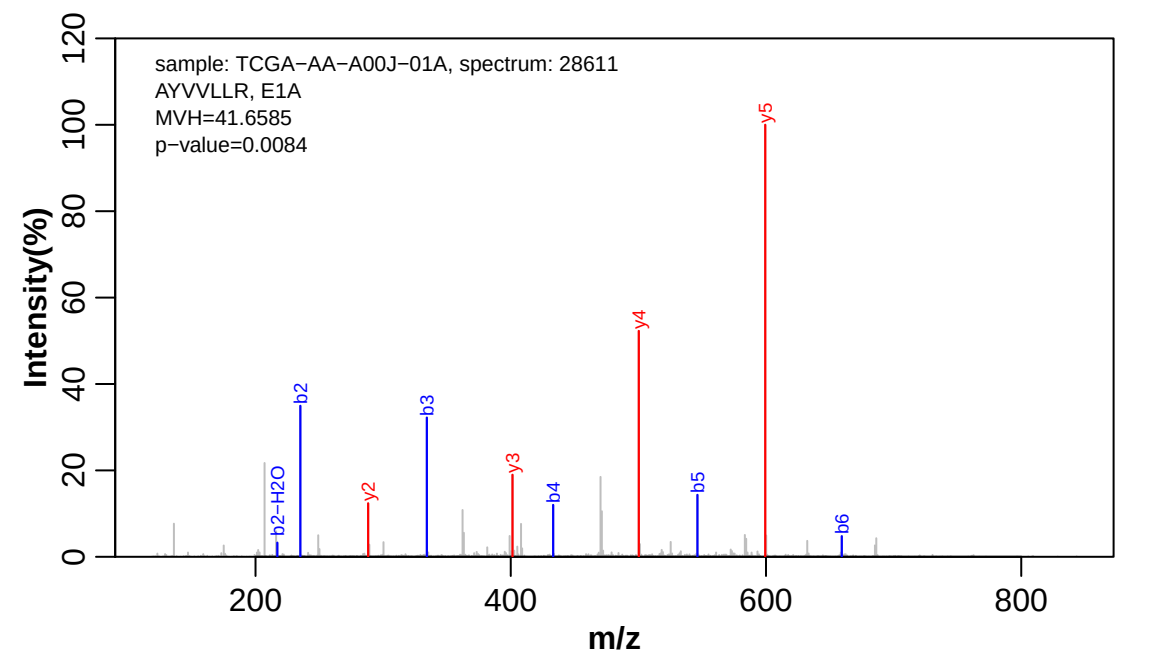

sample: TCGA−AA−A00J−01A, spectrum: 37678
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=30.3838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b27++−H2O
b9
b8
y9
y15−H2O
y14
b16−NH3
y13−H2O
y13
b28++−H2O
b13−H2O
y20++−H2O
b11++
b6
b4
y3

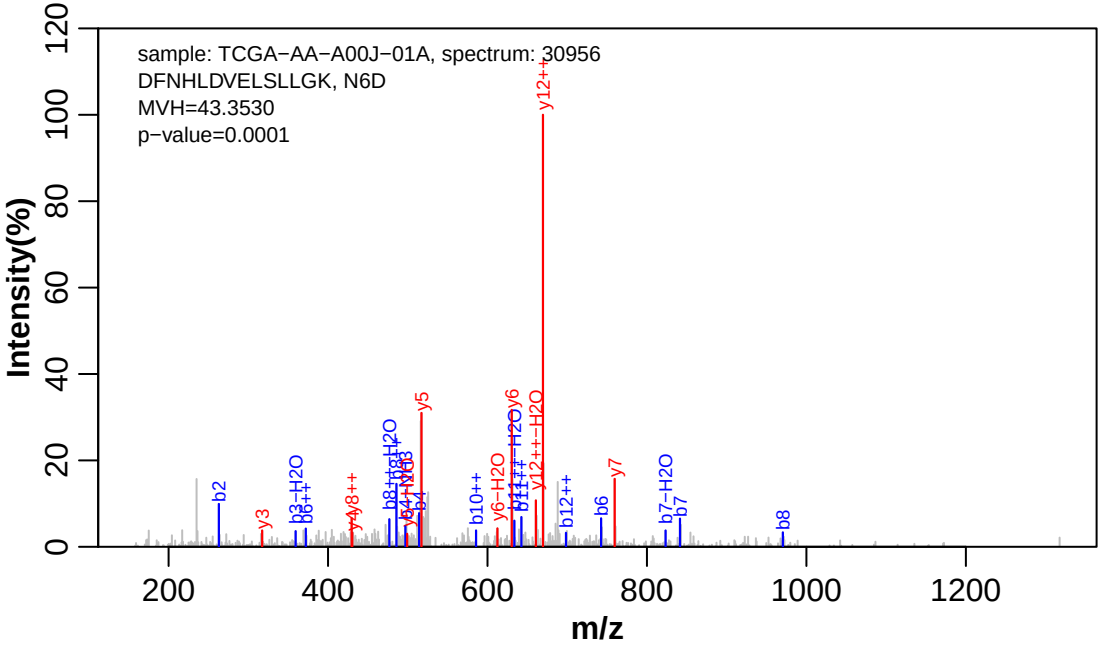

sample: TCGA−AA−A00J−01A, spectrum: 22158
AAPSVTLFPPSSEELQANK, T2A
MVH=66.2550
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b8−NH3
b8−H2O
b8

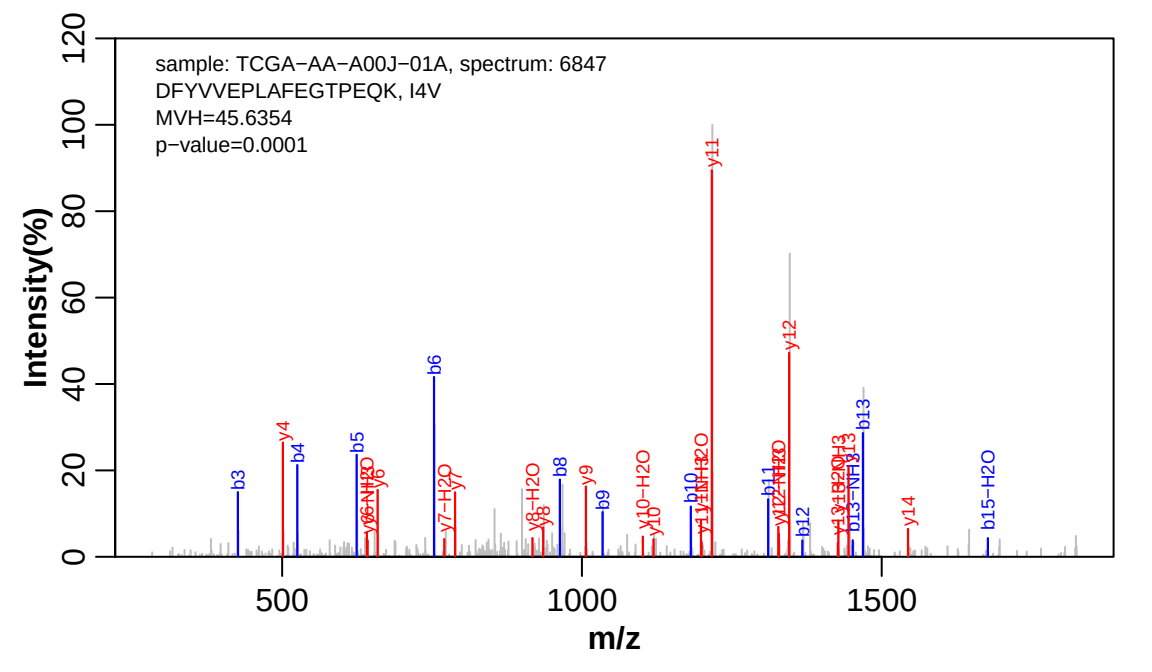

sample: TCGA−AA−A00J−01A, spectrum: 70889
AEELGLPVLGVLR, I8V
MVH=69.0814
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y4
b5
y5
b6−H2O
b6
y7
b8
y8
y9
b9
y10
b11

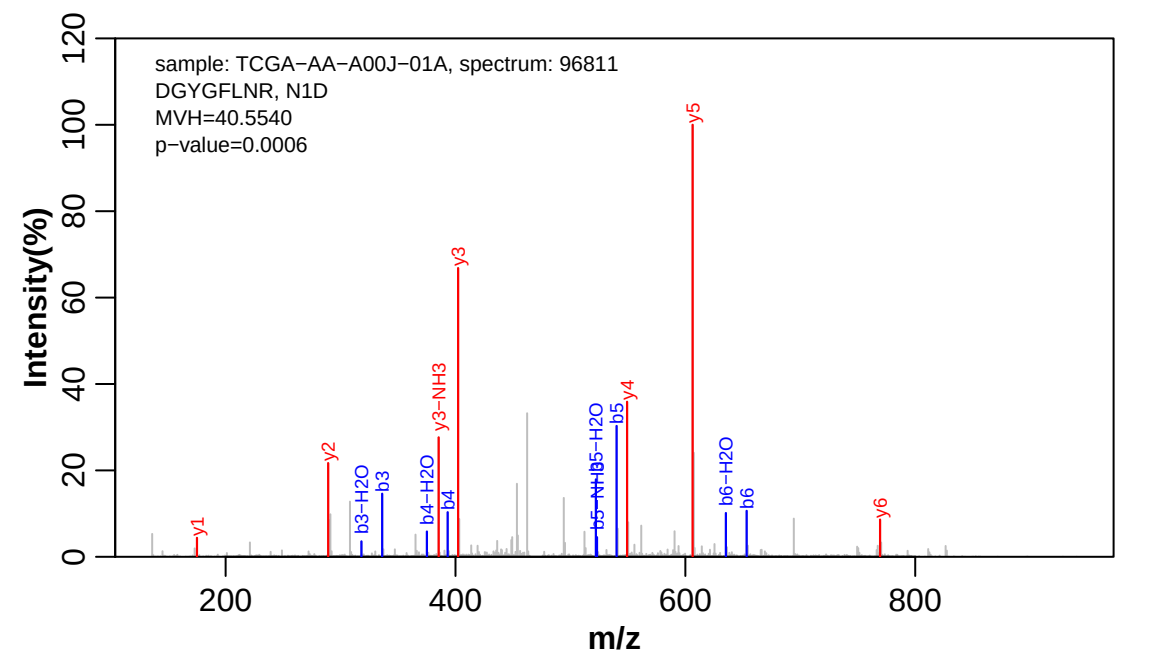

sample: TCGA−AA−A00J−01A, spectrum: 8549
AGVETTTPSK, K7T
MVH=57.5665
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

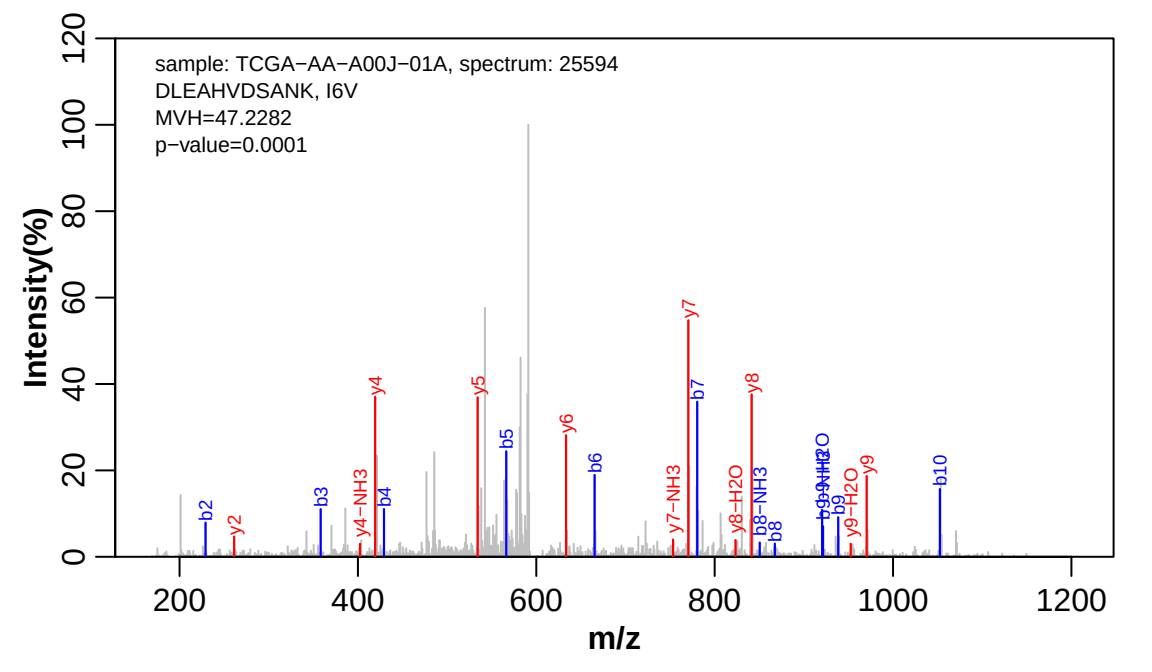

sample: TCGA−AA−A00J−01A, spectrum: 47147
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=51.3029
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y9
y19++
y16++
y8
y3
y4
y17++
y10
y11
b12−H2O
b13−H2O

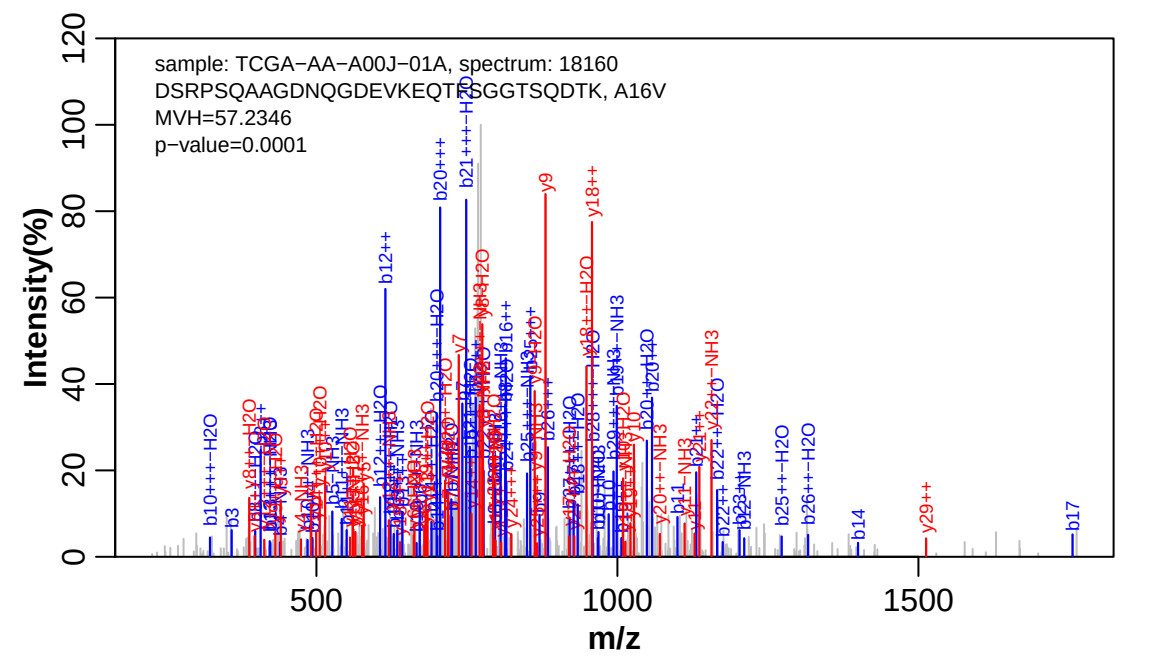

sample: TCGA−AA−A00J−01A, spectrum: 28611
AYVVLLR, E1A
MVH=41.6585
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

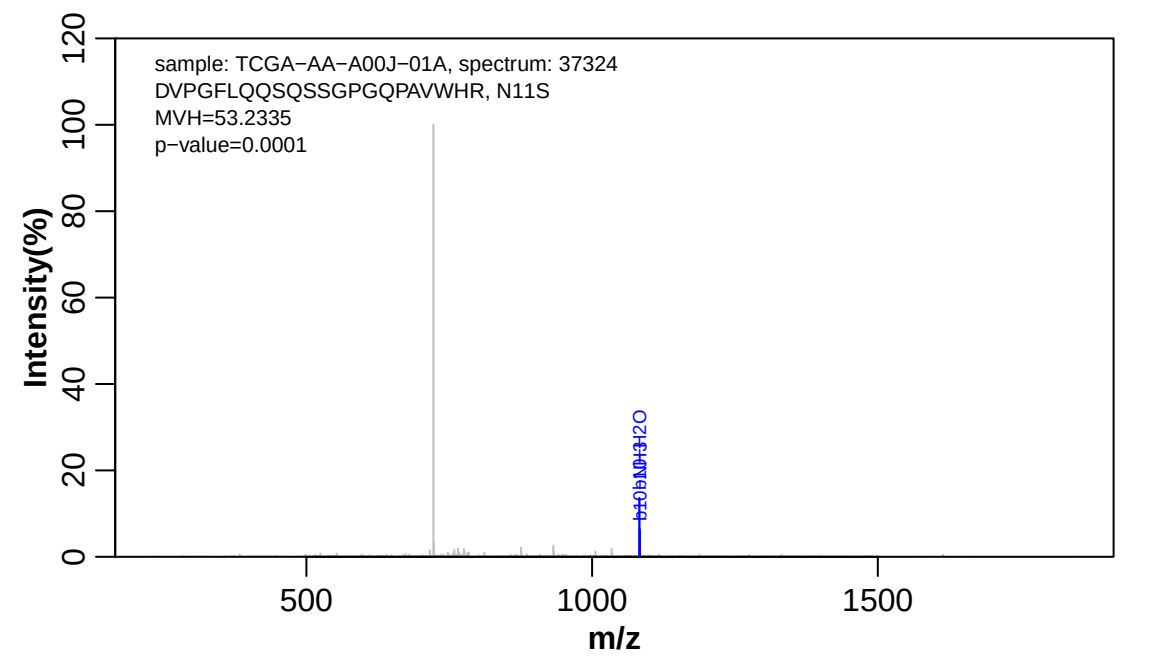

sample: TCGA−AA−A00J−01A, spectrum: 30956
DFNHLDVELSLLGK, N6D
MVH=43.3530
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y5
y6
y12++−H2O
y7
b2
y3
b3−H2O
b8++
y4
y8++
b8++−H2O
b10++
y6−H2O
b12++
b6
b7−H2O
b7
b8

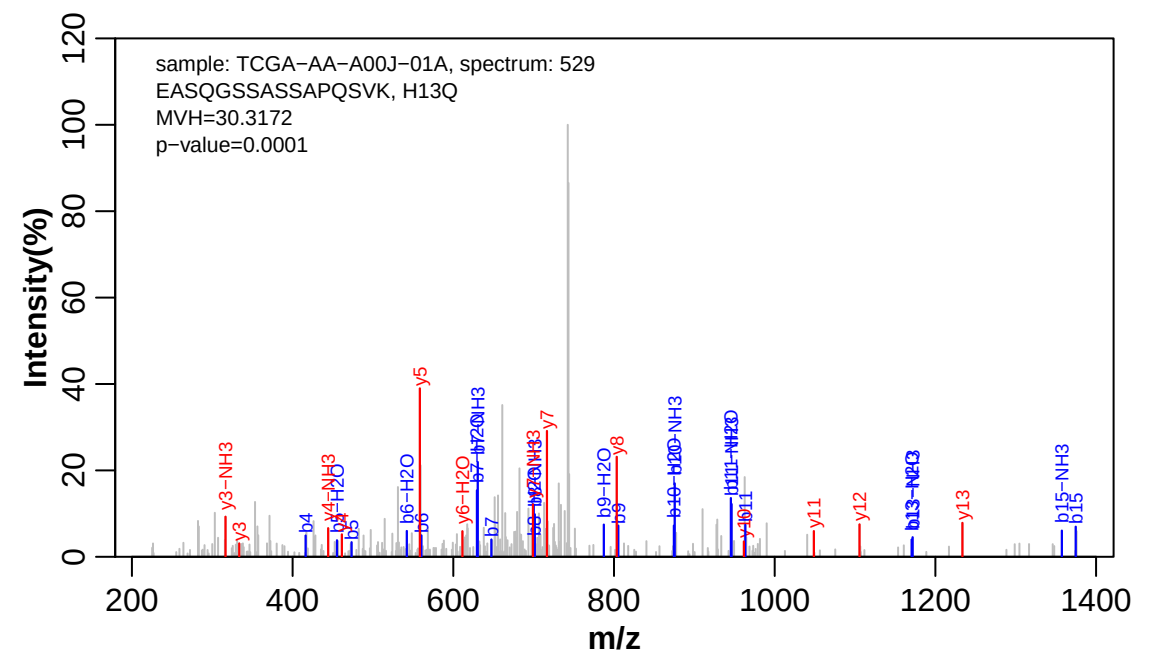

sample: TCGA−AA−A00J−01A, spectrum: 6847
DFYVVEPLAFEGTPEQK, I4V
MVH=45.6354
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
b5
b6
y7−H2O
b8
y9
b9
y10−H2O
y11
b12
y12
b13
y14
b15−H2O

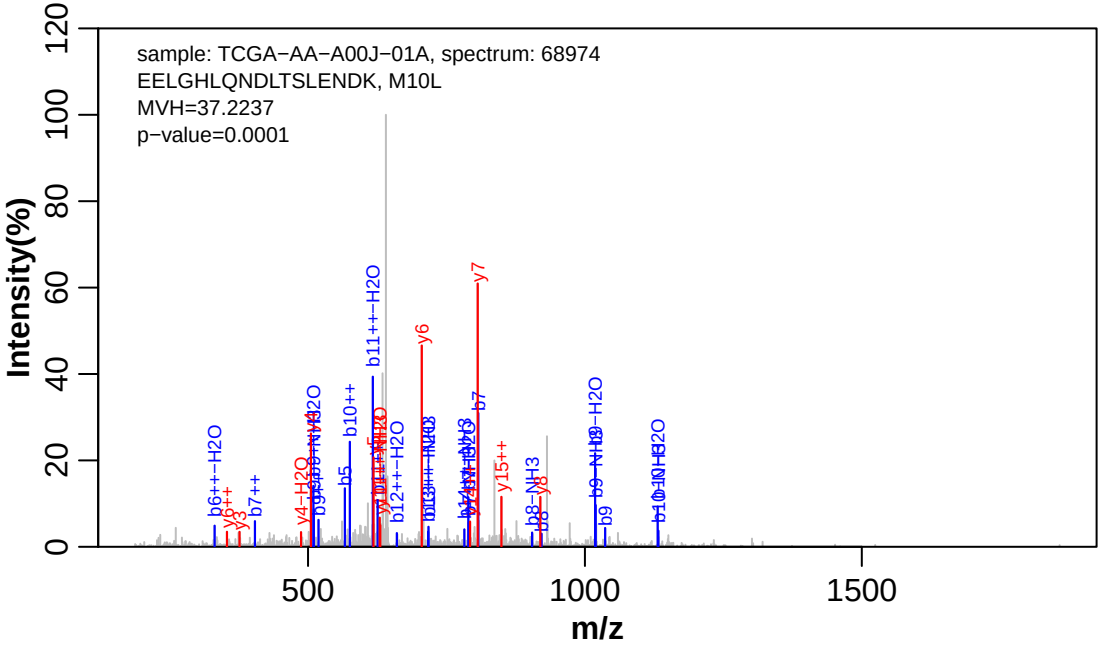

sample: TCGA−AA−A00J−01A, spectrum: 96811
DGYGFLNR, N1D
MVH=40.5540
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

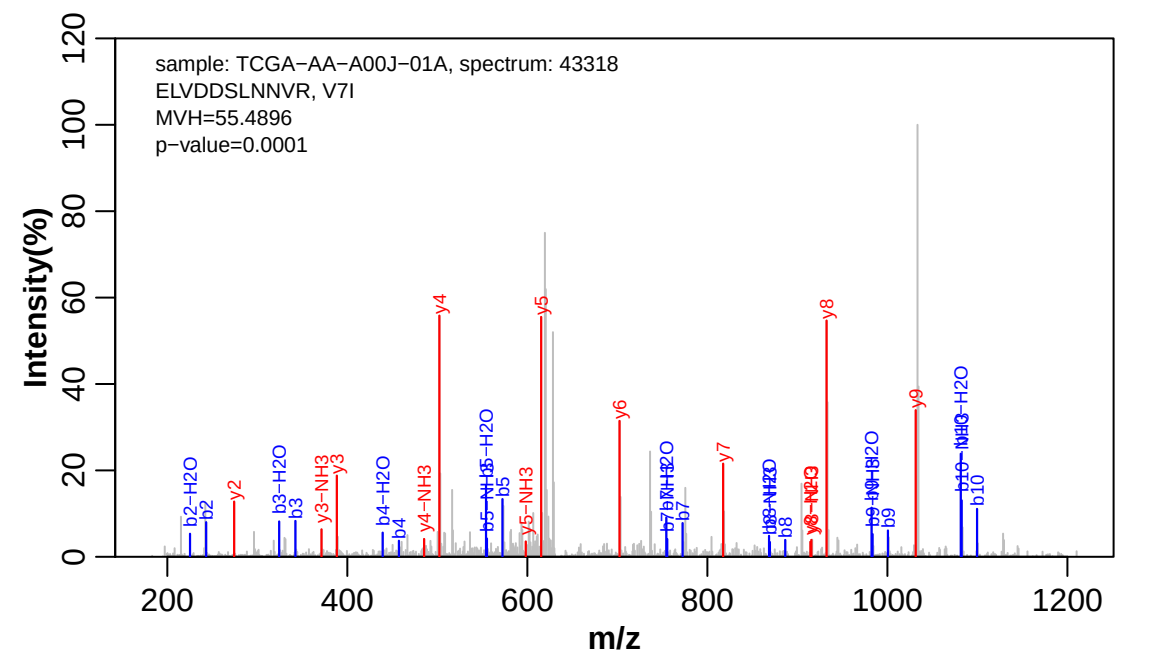

sample: TCGA−AA−A00J−01A, spectrum: 25594
DLEAHVDSANK, I6V
MVH=47.2282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y4−NH3
y4
b4
y5
b5
y6
b6
y7−NH3
y7
b7
y8−H2O
y8
b8−NH3
b8
y9−H2O
y9
b10

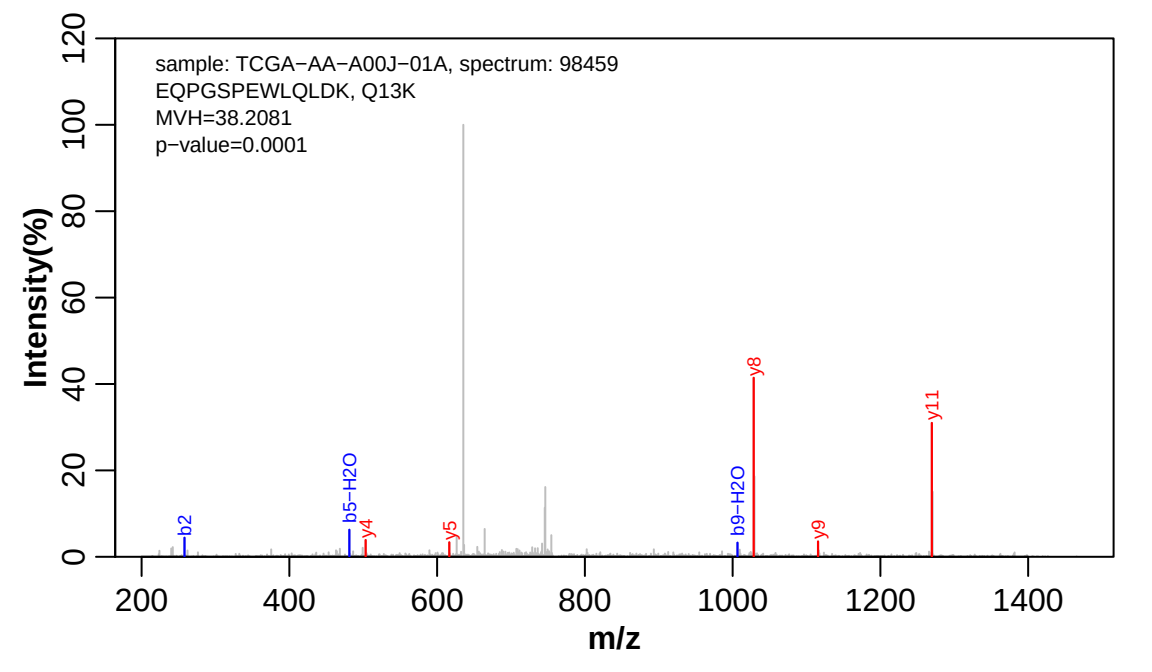

sample: TCGA−AA−A00J−01A, spectrum: 18160
DSRPSQAAGDNQGDEVKEQTPSGGTSQDTK, A16V
MVH=57.2346
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b10+++−H2O
b3
b12++
b20+++
b21+++−H2O
y9
y18++
b17
y29++
b14
b25+++−H2O
b26++−H2O

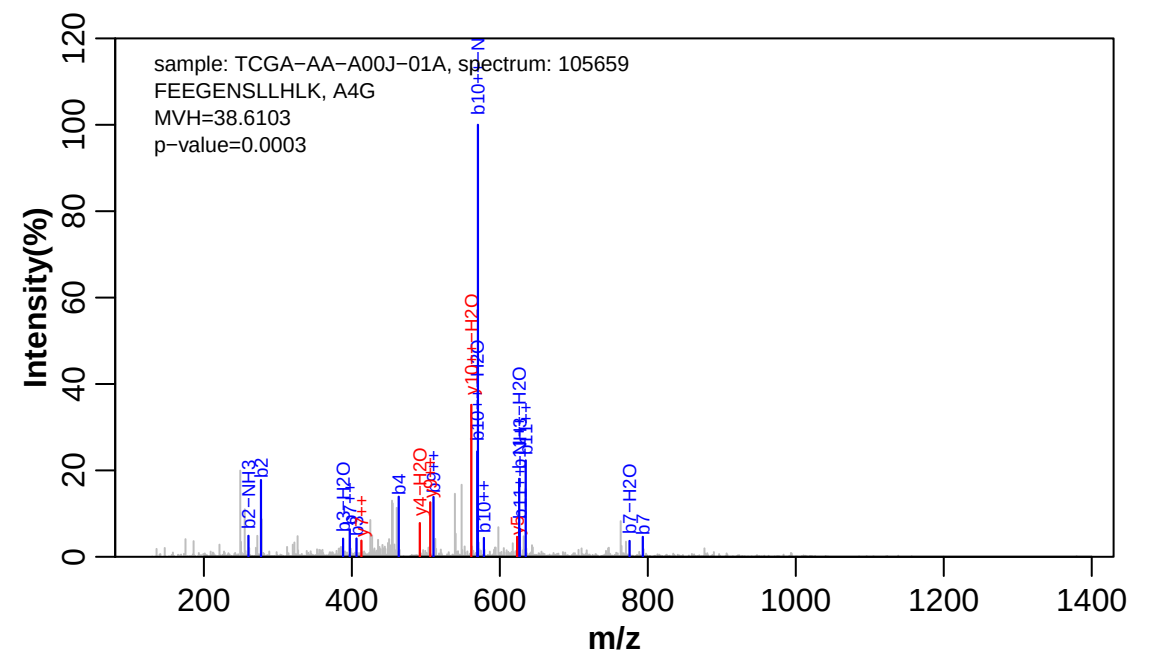

sample: TCGA−AA−A00J−01A, spectrum: 37324
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=53.2335
p−value=0.0001
b10-NH3
b10-H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

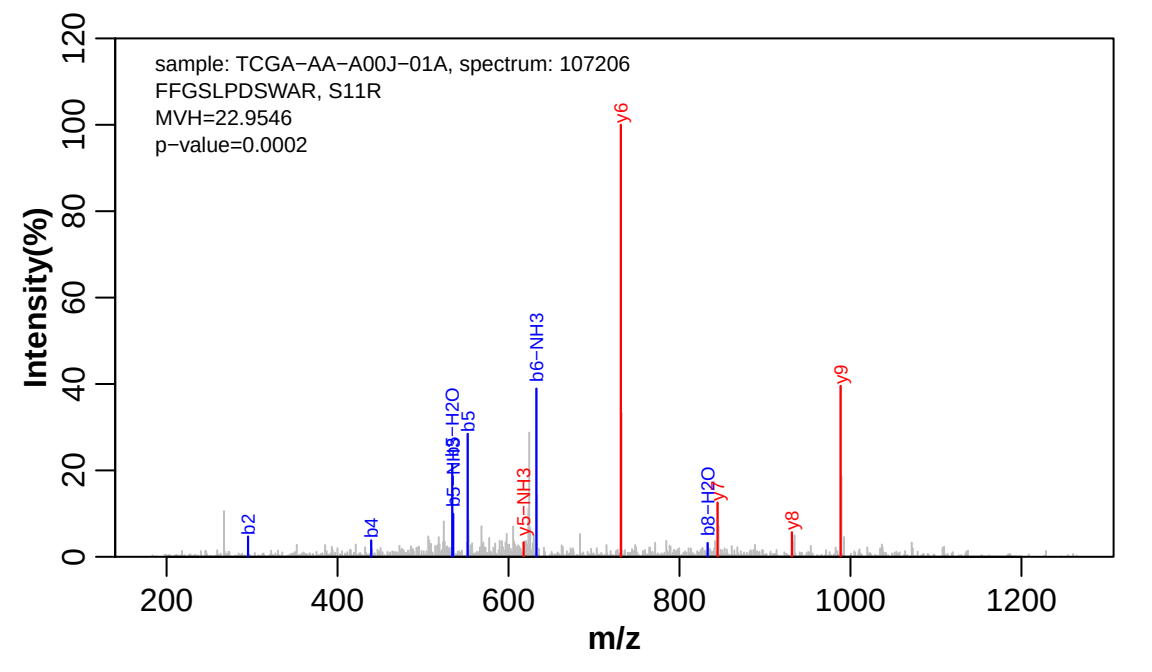

sample: TCGA−AA−A00J−01A, spectrum: 529
EASQGSSASSAPQSVK, H13Q
MVH=30.3172
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3−NH3
y3
b4
y4−NH3
y4
b5−H2O
b5
y5
b6−H2O
b6
y6−H2O
b7−NH3
b7
y7
b8−NH3
b8
b9−H2O
y8
b9
b10−NH3
b10
y10−NH3
y10
y11
y12
b13−NH3
b13
y13
b15−NH3
b15

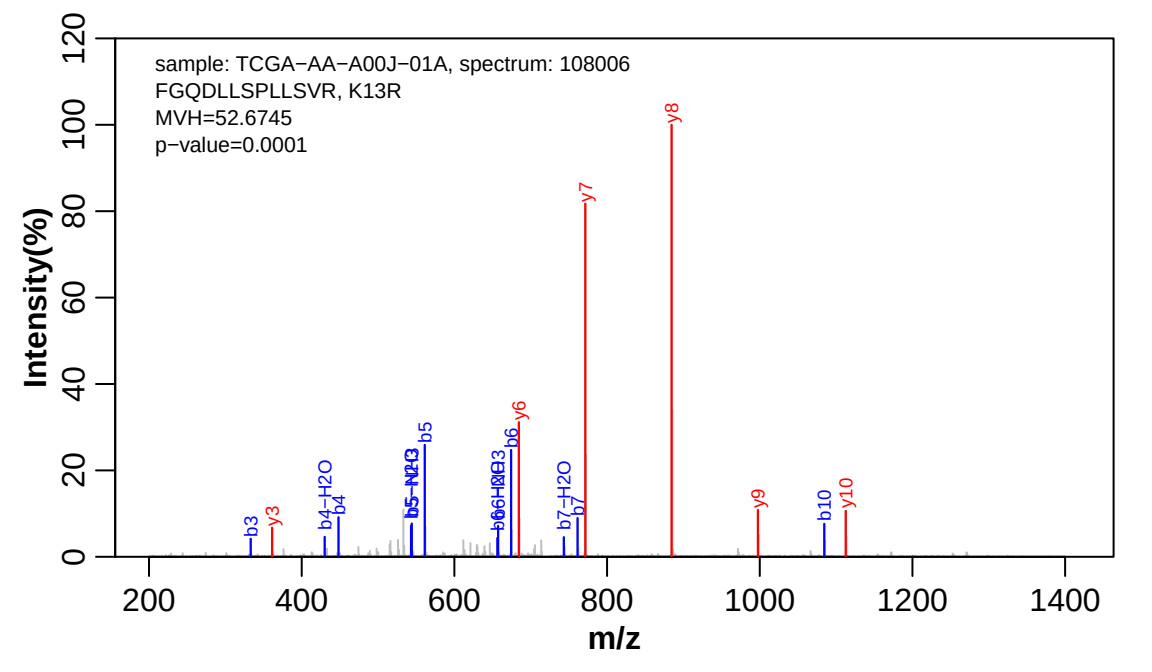

sample: TCGA−AA−A00J−01A, spectrum: 68974
EELGHLQNDLTSLENDK, M10L
MVH=37.2237
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b6++−H2O
y6++
y3
b7++
y4−H2O
b5
b10++
b11++−H2O
y6
y7
b12++−H2O
b7
y15++
b8−NH3
y8
b9−H2O
b9
b10−H2O

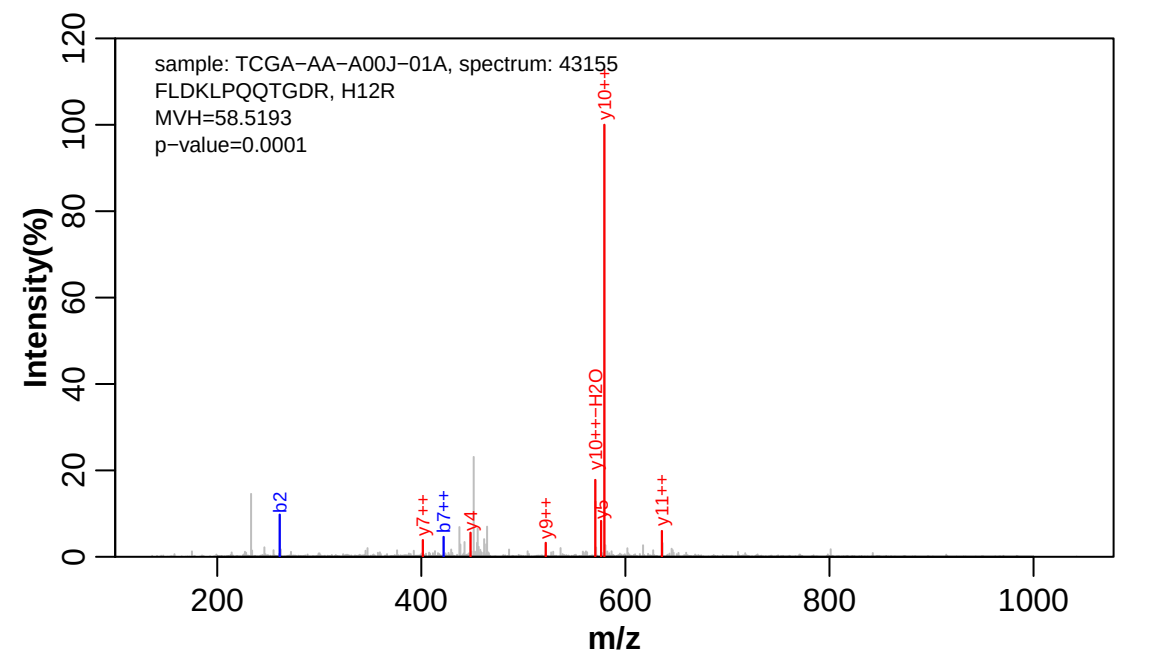

sample: TCGA−AA−A00J−01A, spectrum: 43318
ELVDDSLNNVR, V7I
MVH=55.4896
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3−NH3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
y6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8−NH3
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

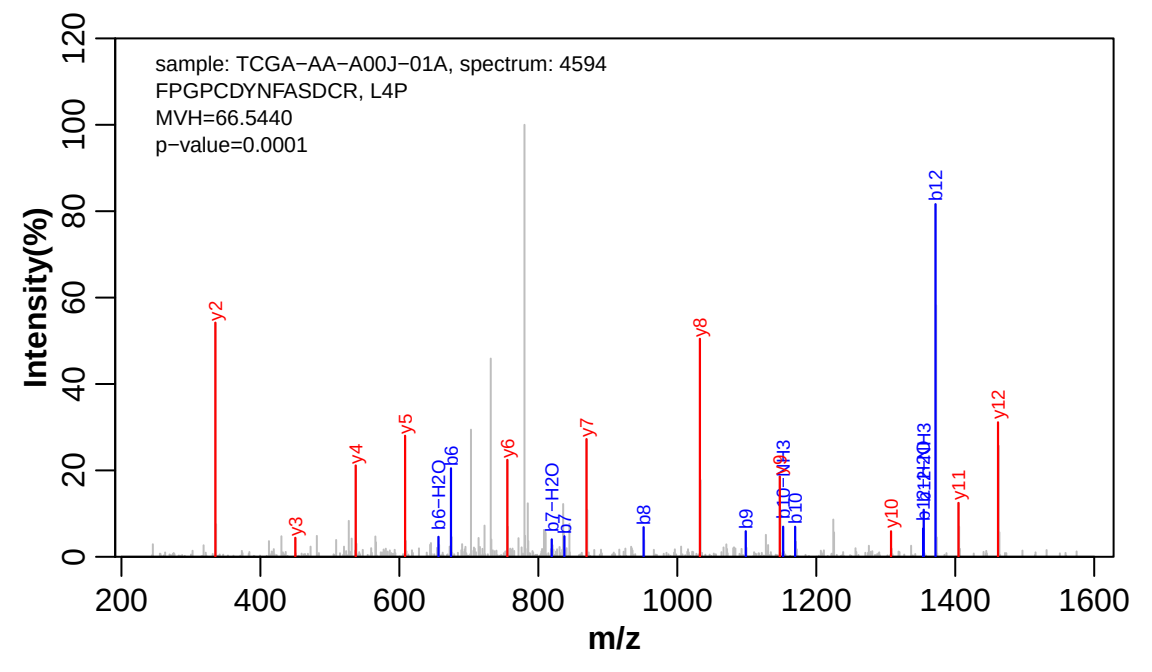

sample: TCGA−AA−A00J−01A, spectrum: 98459
EQPGSPEWLQLDK, Q13K
MVH=38.2081
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b2
b5−H2O
y4
y5
b9−H2O
y8
y9
y11

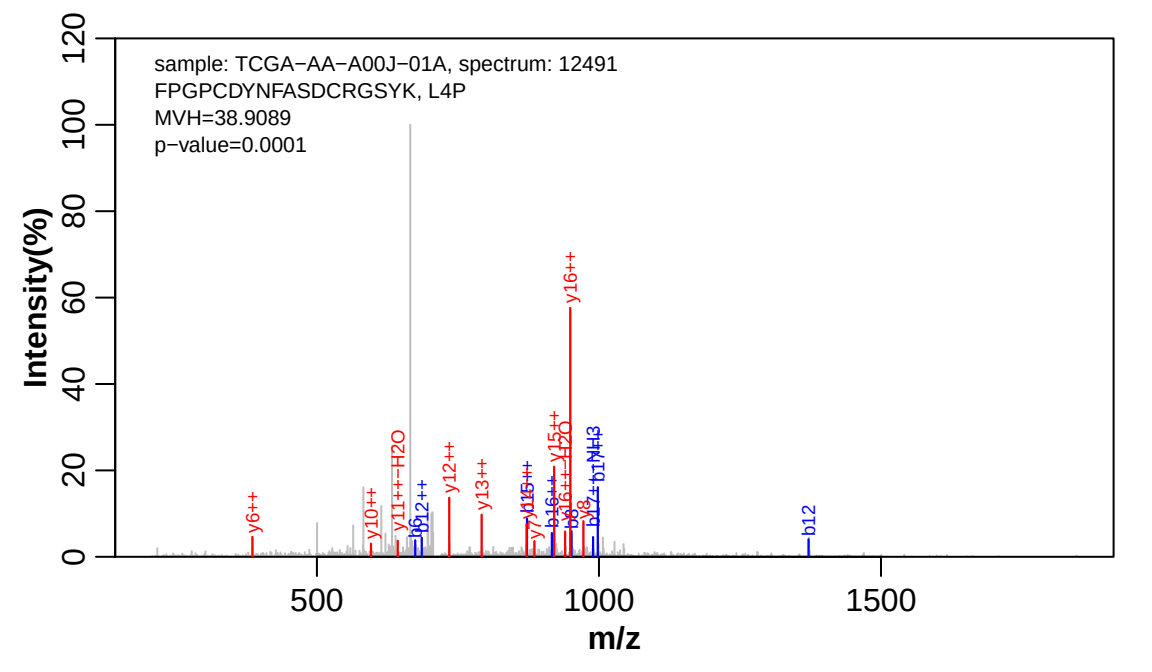

sample: TCGA−AA−A00J−01A, spectrum: 105659
FEEGENSLLHLK, A4G
MVH=38.6103
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10+−NH3
b2−NH3
b2
b3−H2O
b3
b4
y4−H2O
y4
b10+
b10+−H2O
y10+−H2O
b11+−H2O
b11+
b7−H2O
b7

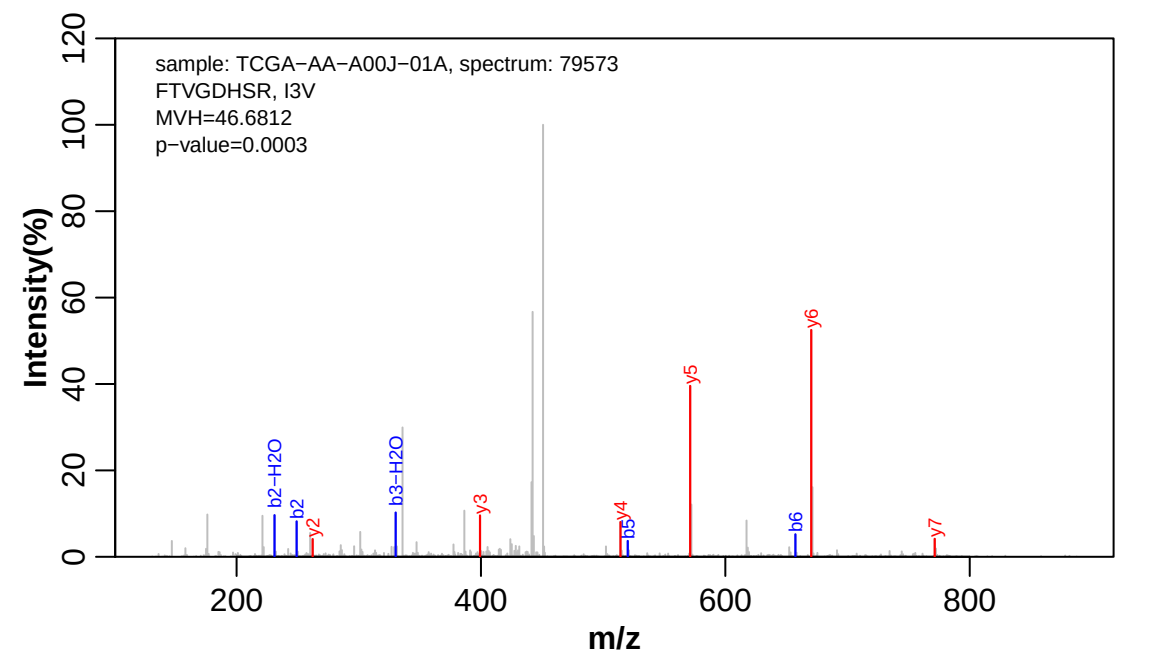

sample: TCGA−AA−A00J−01A, spectrum: 107206
FFGSLPDSWAR, S11R
MVH=22.9546
p−value=0.0002
Intensity(%)
m/z
y6
b6−NH3
y9
b5−H2O
b5
b5−NH3
y5−NH3
b2
b4
b8−H2O
y7
y8

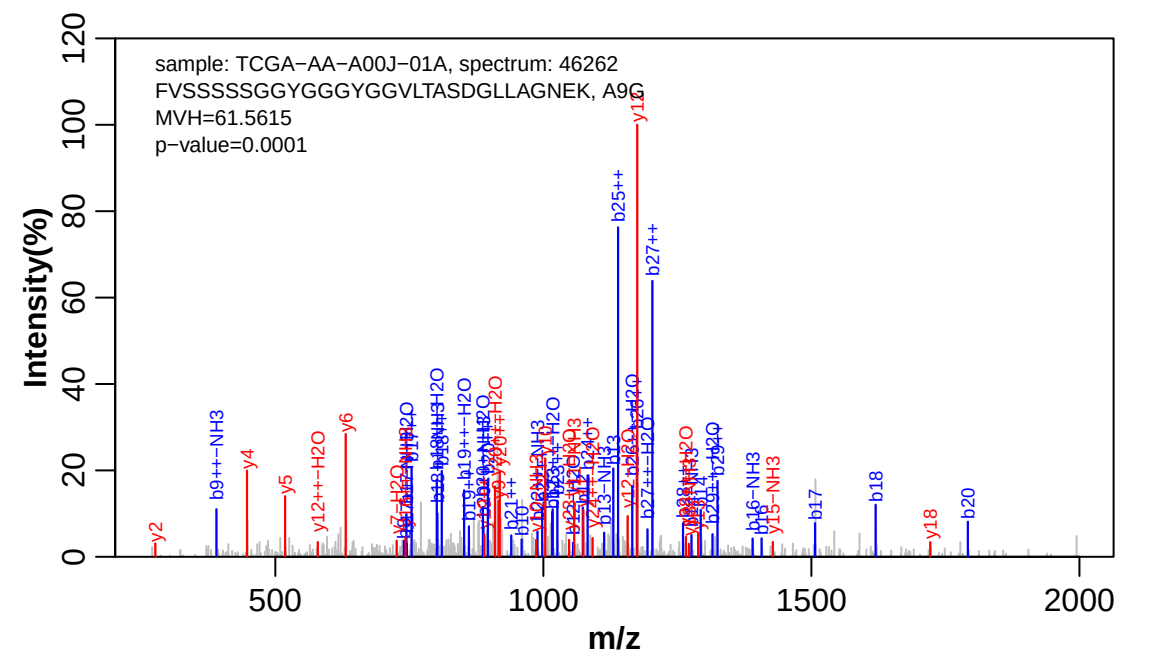

sample: TCGA−AA−A00J−01A, spectrum: 108006
FGQDLLSPLLSVR, K13R
MVH=52.6745
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

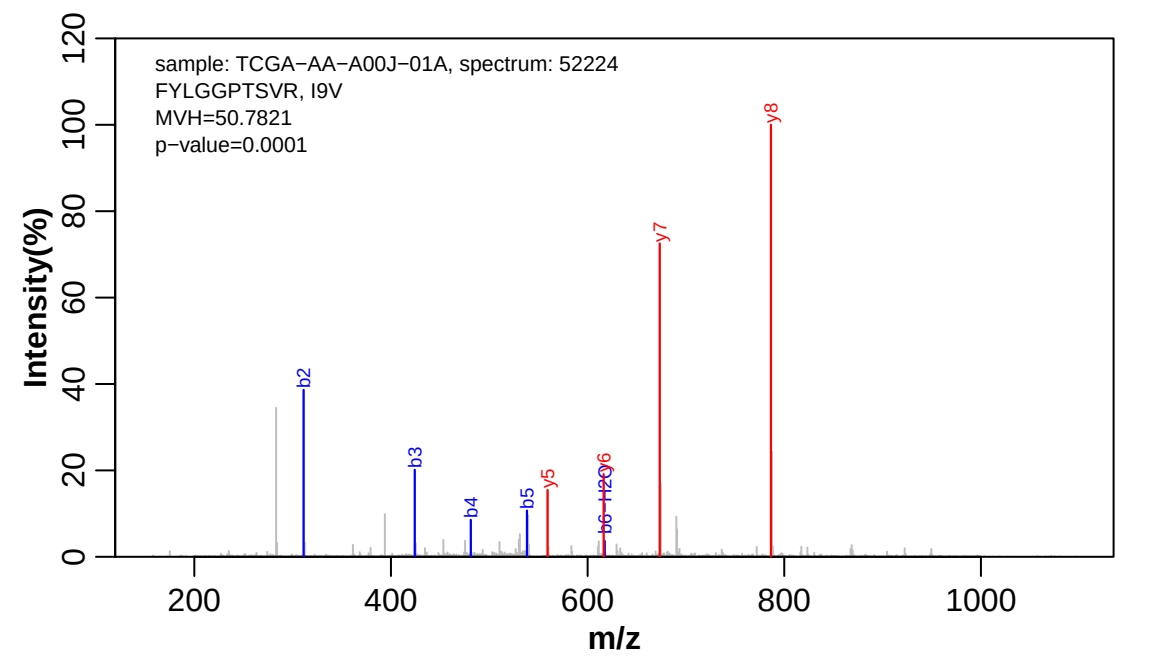

sample: TCGA−AA−A00J−01A, spectrum: 43155
FLDKLPQQTGDR, H12R
MVH=58.5193
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

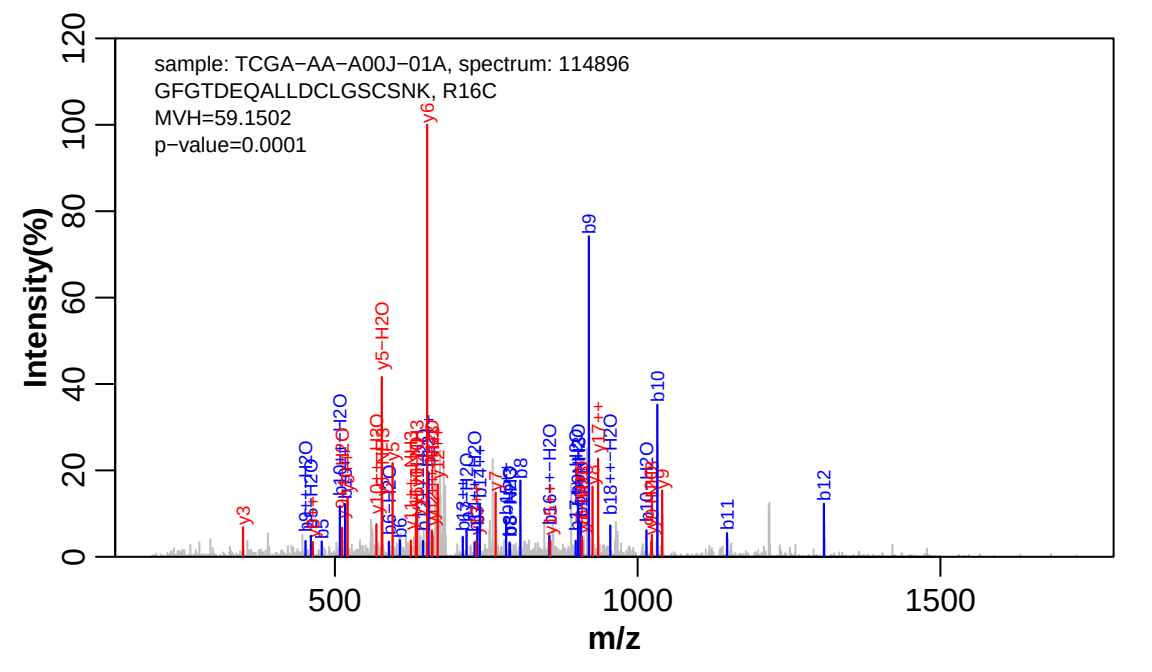

sample: TCGA−AA−A00J−01A, spectrum: 4594
FPGPCDYNFASDCR, L4P
MVH=66.5440
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
b6
b6−H2O
y6
y7
b7−H2O
b7
b8
y8
b9
b10−NH3
b10
y10
b12
y11
y12

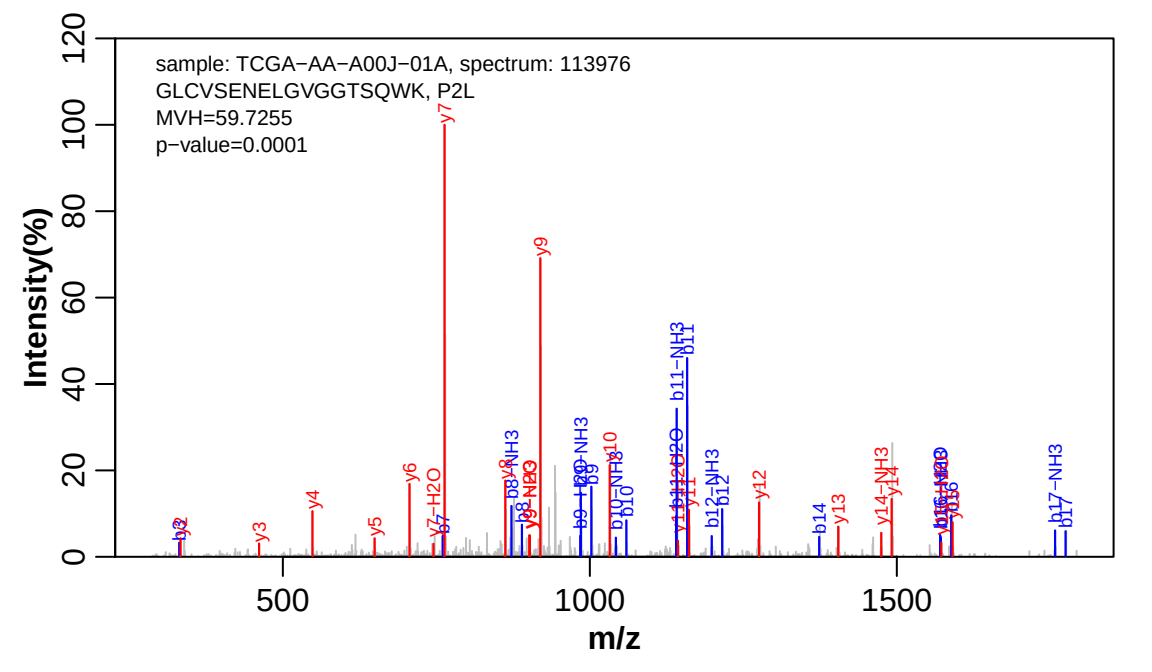

sample: TCGA−AA−A00J−01A, spectrum: 12491
FPGPCDYNFASDCRGSYK, L4P
MVH=38.9089
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6++
y10++
y11++−H2O
b6
b12++
y12++
y13++
y15++
y16++
y16++−H2O
b12
y16++

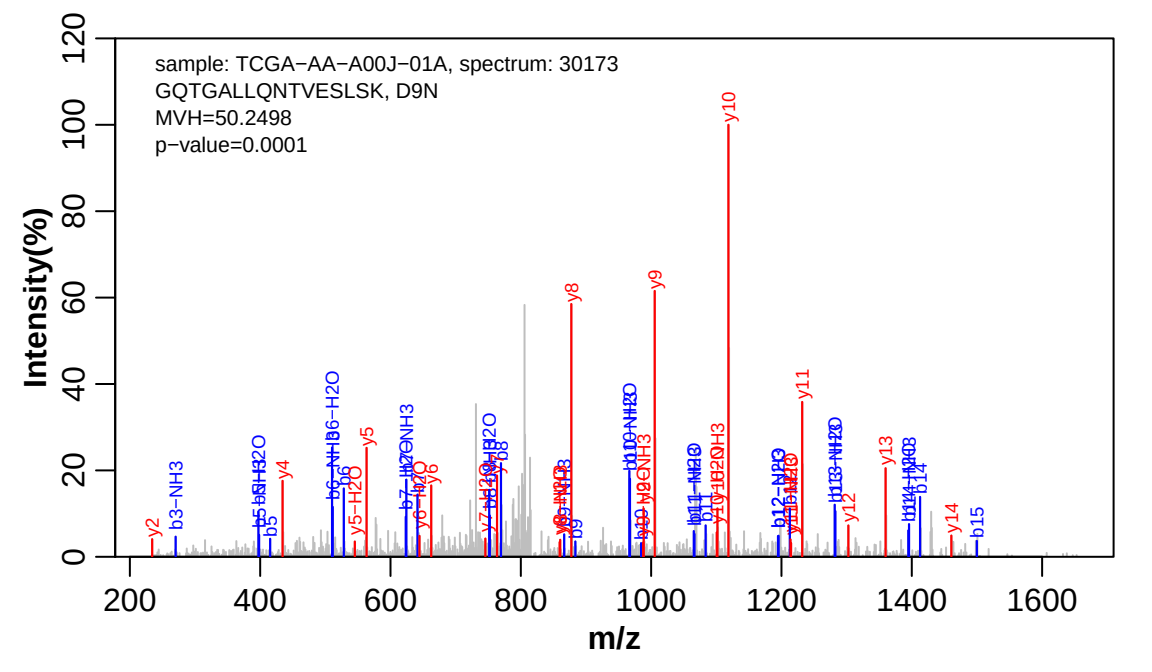

sample: TCGA−AA−A00J−01A, spectrum: 79573
FTVGDHSR, I3V
MVH=46.6812
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
y2
b3−H2O
y3
y4
b5
y5
y6
b6
y7

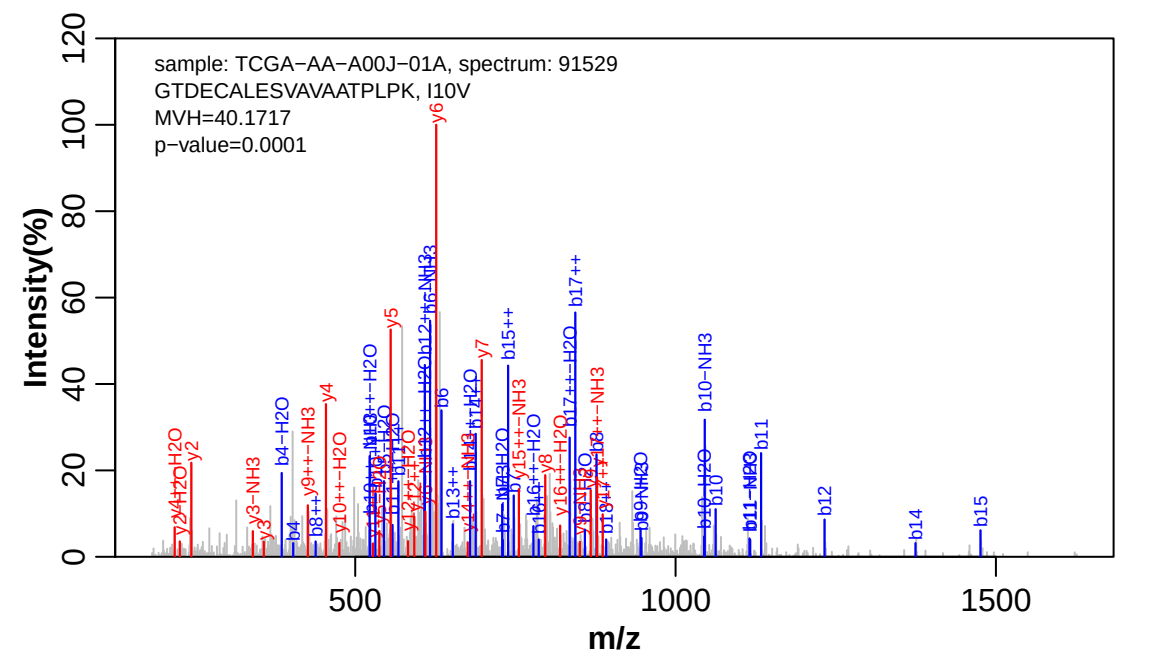

sample: TCGA−AA−A00J−01A, spectrum: 46262
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=61.5615
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b9++−NH3
y4
y5
y12++−H2O
y6
b25++
y14
b27++
b18
y18
b20
b17
y15−NH3
b16−NH3

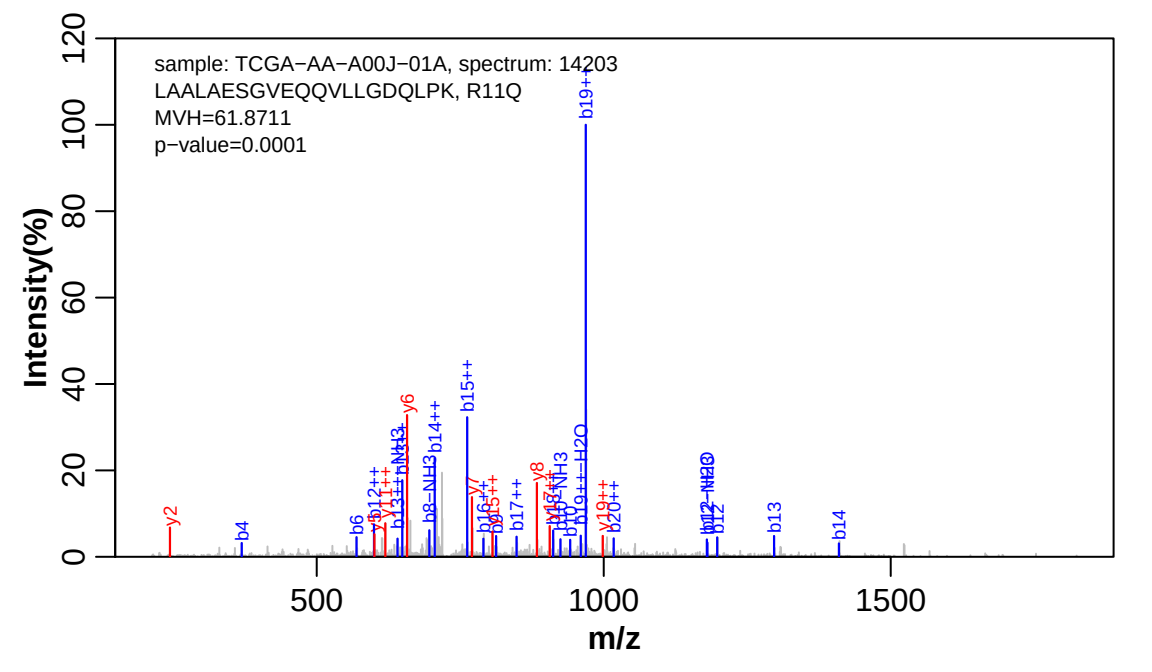

sample: TCGA−AA−A00J−01A, spectrum: 52224
FYLGGPTSVR, I9V
MVH=50.7821
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

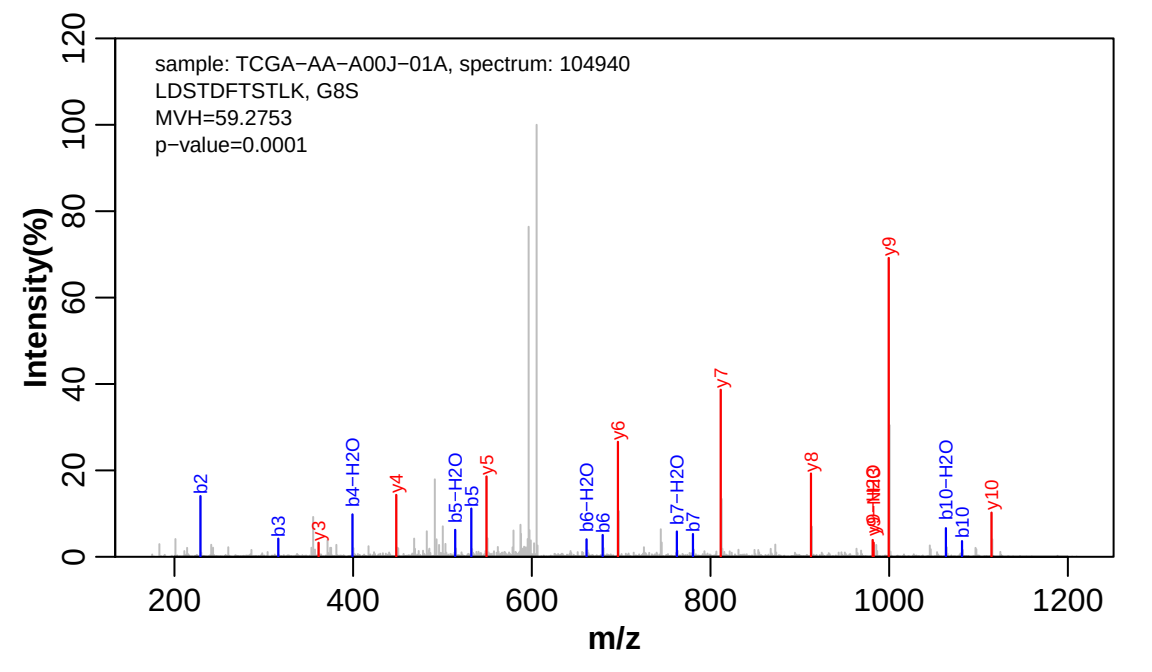

sample: TCGA−AA−A00J−01A, spectrum: 114896
GFGTDEQALLDCLGSCSNK, R16C
MVH=59.1502
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
b11
y3
y9
y8
y7
b8
b18++−H2O
b16++−H2O
y17++
y10++−H2O

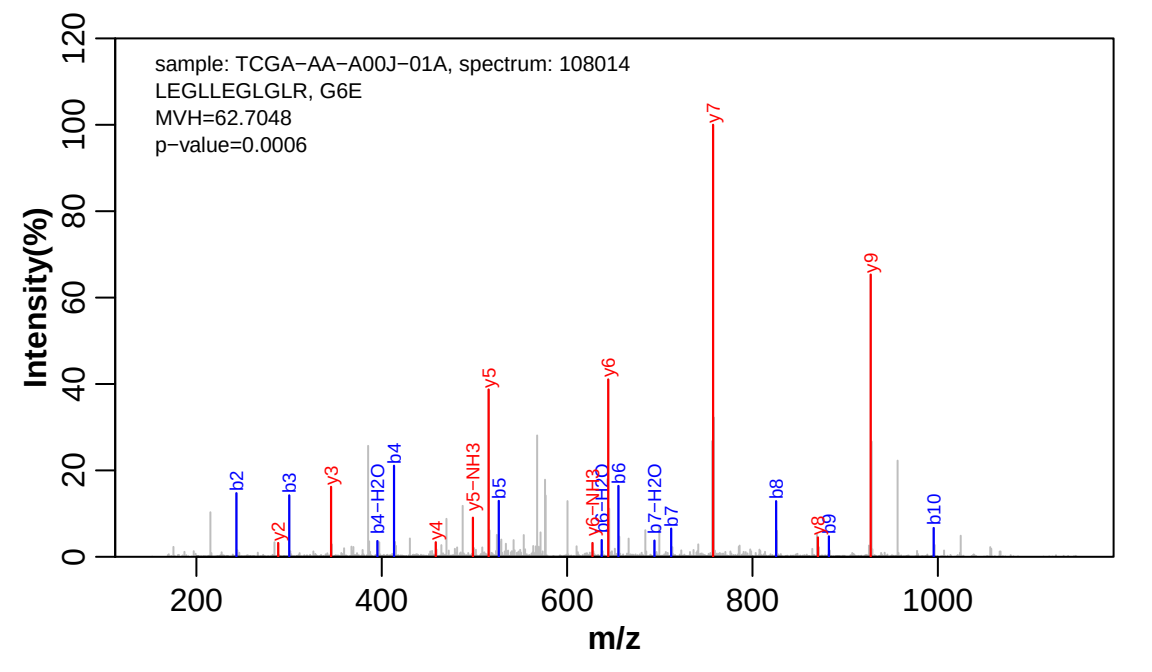

sample: TCGA−AA−A00J−01A, spectrum: 113976
GLCVSENELGVGGTSQWK, P2L
MVH=59.7255
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y9
y6
y7−H2O
y4
y3
y5
b11−NH3
b11
b12−NH3
y12
y14−NH3
y14
b17−NH3
b14
y13

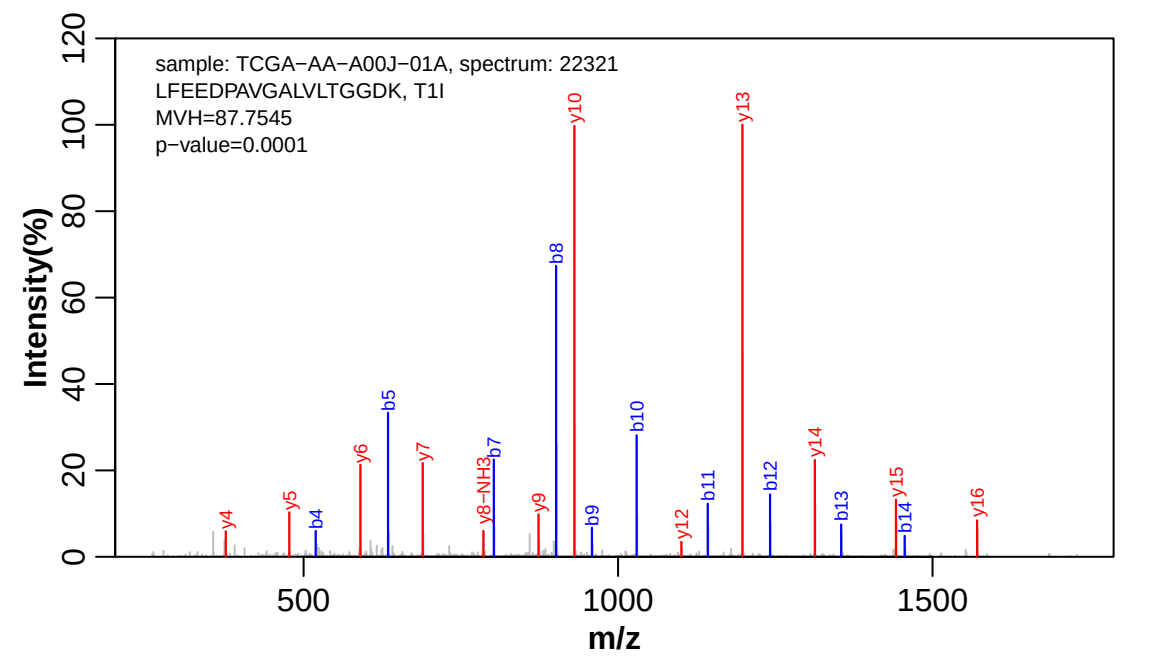

sample: TCGA−AA−A00J−01A, spectrum: 30173
GQTGALLQNTVESLSK, D9N
MVH=50.2498
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y5
y4
y2
y12
y13
y14
b15
b3−NH3
b6−H2O
b6−NH3
b6
y5−H2O
b5
b5−NH3
b5−H2O

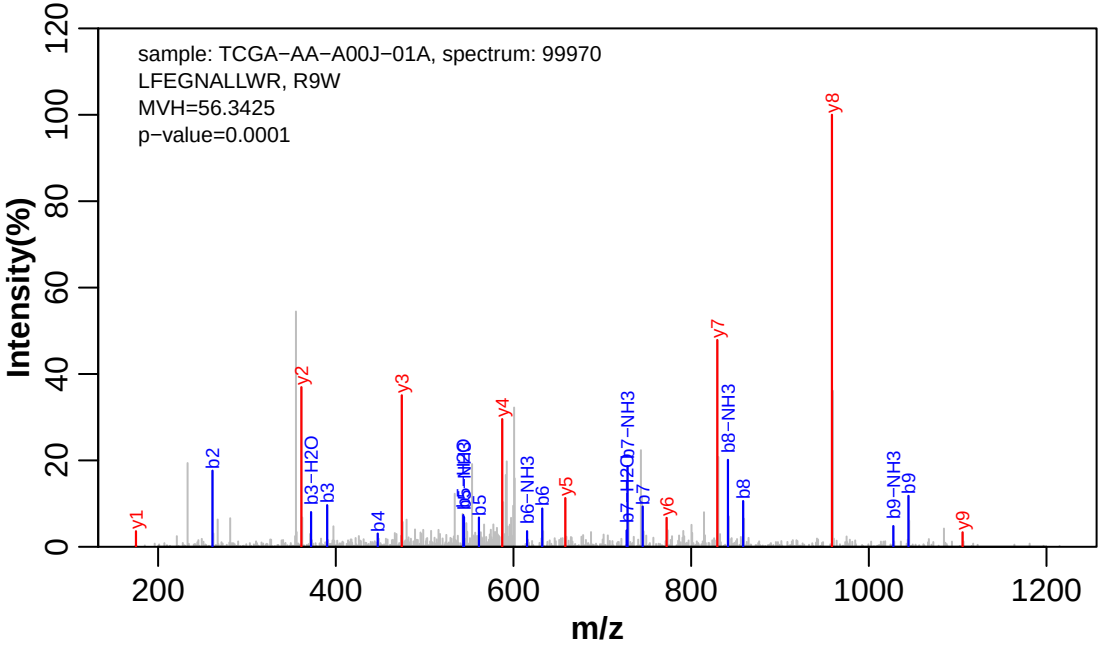

sample: TCGA−AA−A00J−01A, spectrum: 91529
GTDECALESVAVAATPLPK, I10V
MVH=40.1717
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5
y4
y2
y3−NH3
b4−H2O
b4
b8++
y9++−NH3
y10++−H2O
b6
b13++
y7
b15++
b17++
b10−NH3
b10−H2O
b10
b11
b12
b14
b15

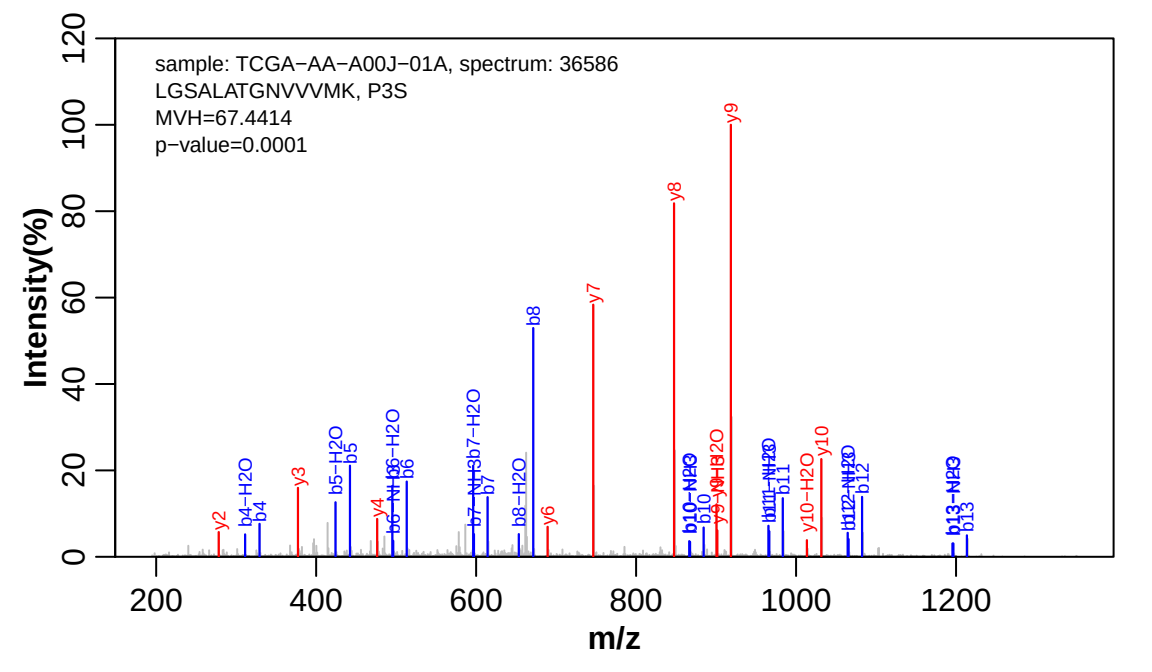

sample: TCGA−AA−A00J−01A, spectrum: 14203
LAALAESGVEQQVLLGDQLPK, R11Q
MVH=61.8711
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b4
b6
b12++
y11++
b13++−NH3
y6
b14++
b8−NH3
b15++
y7
b16++
b15++
b17++
y8
b18++
b19++−NH3
b19++−H2O
b19++
y19++
b20++
b13
b14

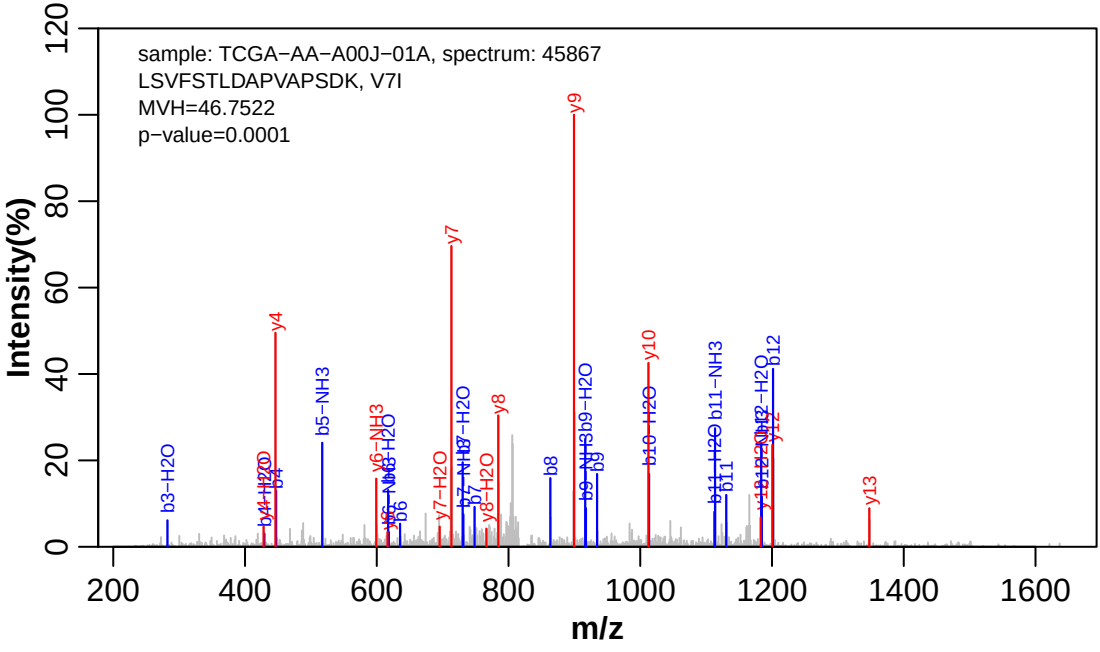

sample: TCGA−AA−A00J−01A, spectrum: 104940
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−NH3
y9−H2O
y9
b10−H2O
b10
y10

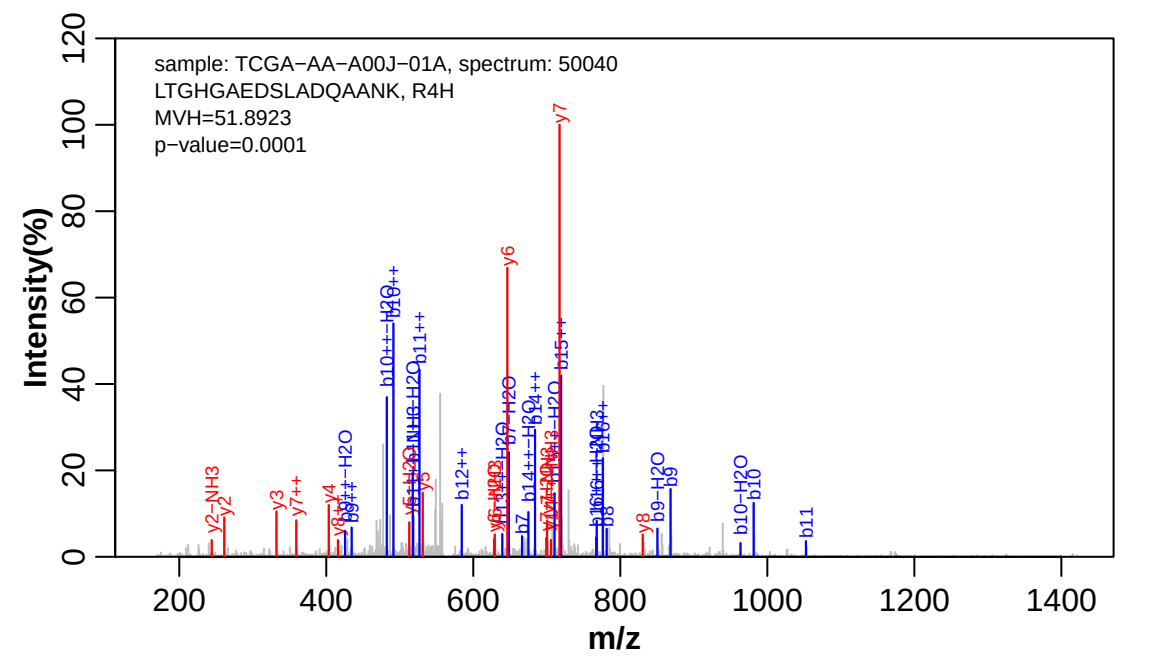

sample: TCGA−AA−A00J−01A, spectrum: 108014
LEGLLEGLGLR, G6E
MVH=62.7048
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y7
y9
y5
y6
b2
b3
y3
b4
b4−H2O
y2
y4
y5−NH3
b5
y6−NH3
y6−H2O
b6
b7−H2O
b7
b8
y8
b9
b10

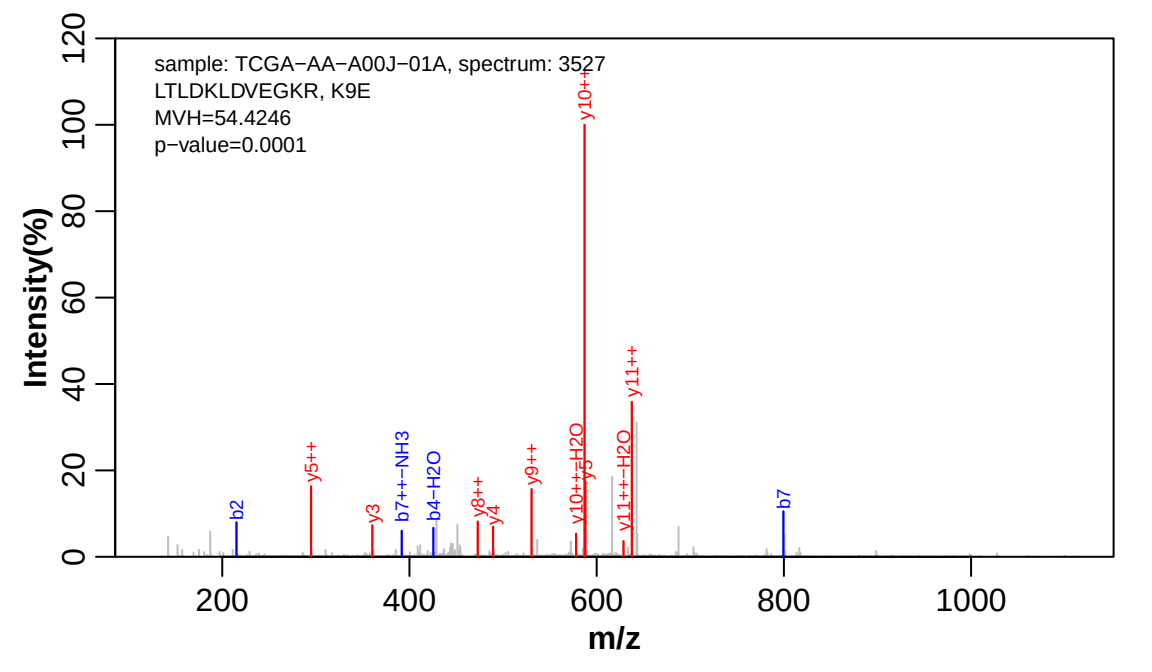

sample: TCGA−AA−A00J−01A, spectrum: 22321
LFEEDPAVGALVLTGGDK, T1I
MVH=87.7545
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5
y7
y8−NH3
b7
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

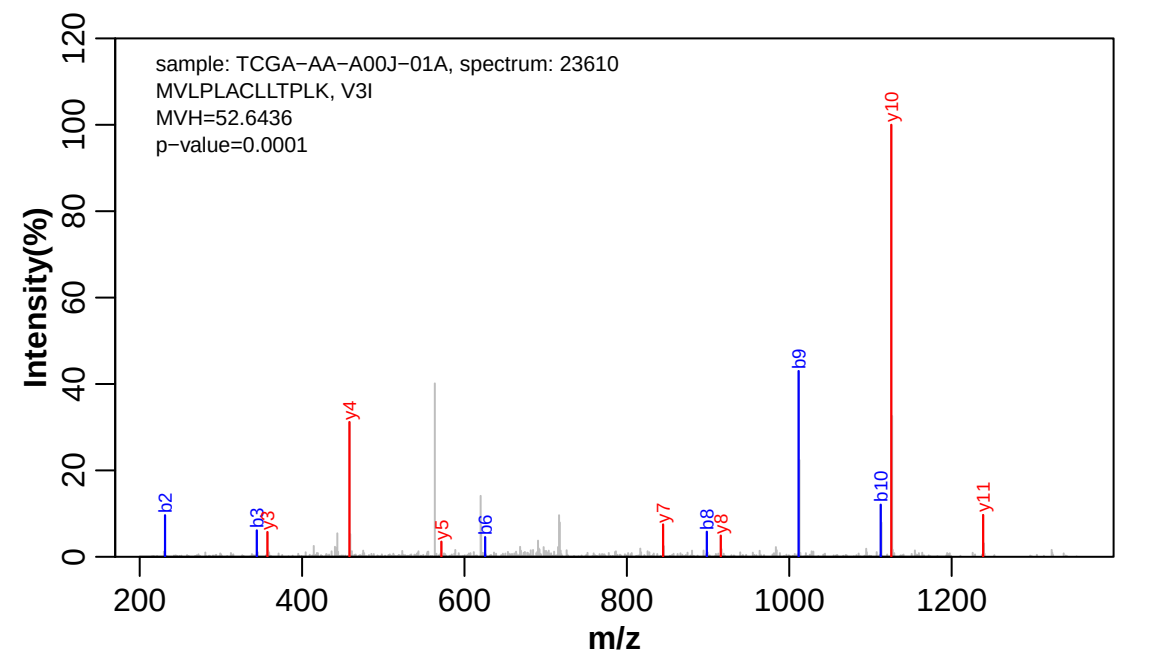

sample: TCGA−AA−A00J−01A, spectrum: 99970
LFEGNALLWR, R9W
MVH=56.3425
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
b3−H2O
y2
b3
b4
y3
b5
y4
b6−NH3
b6
y5
b7−H2O
b7−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9

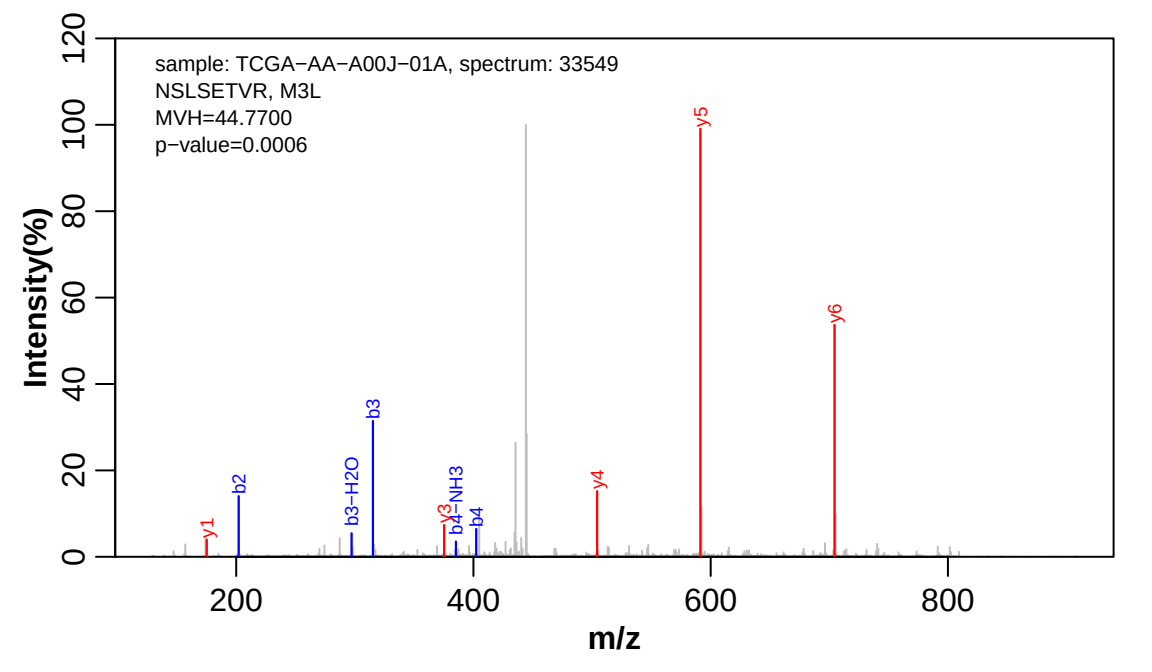

sample: TCGA−AA−A00J−01A, spectrum: 36586
LGSALATGNVVVMK, P3S
MVH=67.4414
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b4−H2O
b4
y3
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
b7−NH3
b7−H2O
b7
b8−H2O
b8
y6
y7
y8
y9
b10−NH3
b10−H2O
b10
y9−NH3
y9−H2O
b11−NH3
b11−H2O
b11
y10−H2O
y10
b12−NH3
b12−H2O
b12
b13−NH3
b13−H2O
b13

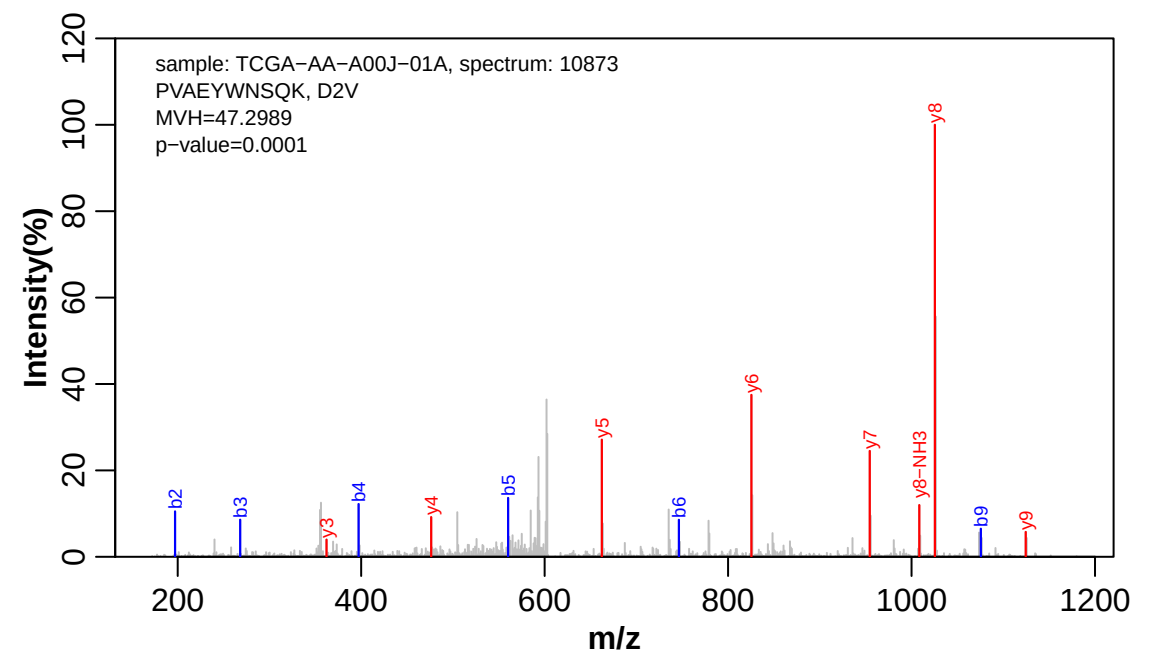

sample: TCGA−AA−A00J−01A, spectrum: 45867
LSVFSTLDAPVAPSDK, V7I
MVH=46.7522
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y10
y8
y13
b12
b8
b5−NH3
b3−H2O
y7−H2O
y8−H2O
b10−H2O
b11−NH3
b11−H2O
b9−NH3
b9−H2O

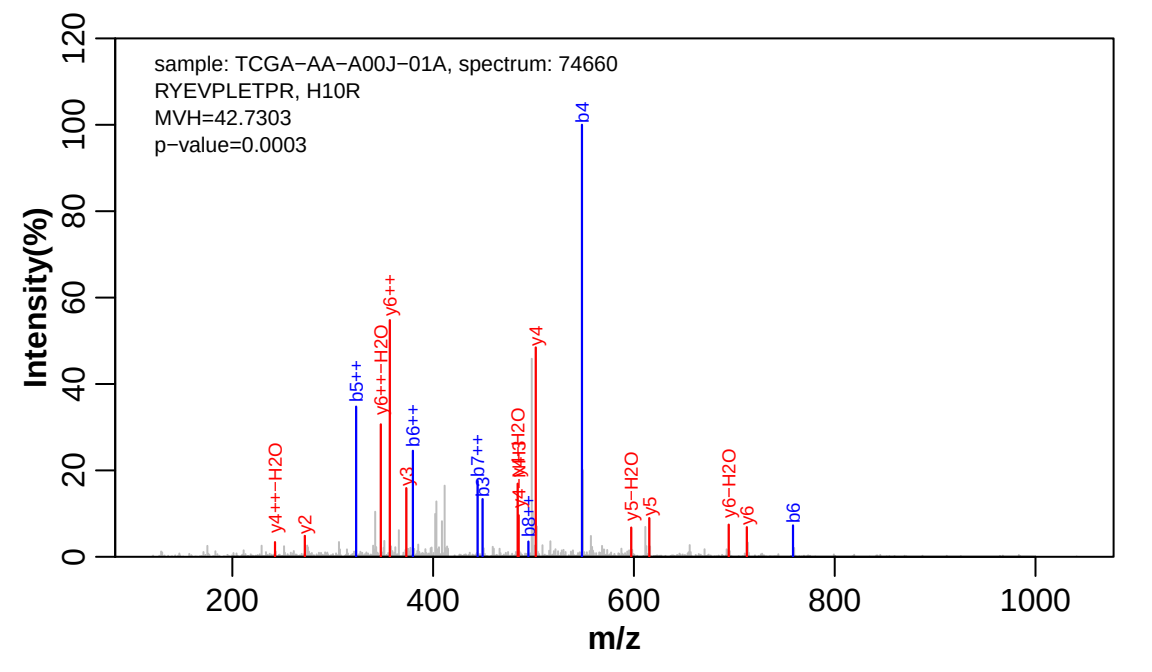

sample: TCGA−AA−A00J−01A, spectrum: 50040
LTGHGAEDSLADQAANK, R4H
MVH=51.8923
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y2−NH3
y2
y3
y7++
y4
y8++−H2O
b9++
b10++−H2O
b10++
b11++
y5
b12++
b7
b14++−H2O
b14++
b15++
b8
y8
b9−H2O
b9
b10−H2O
b10
b11

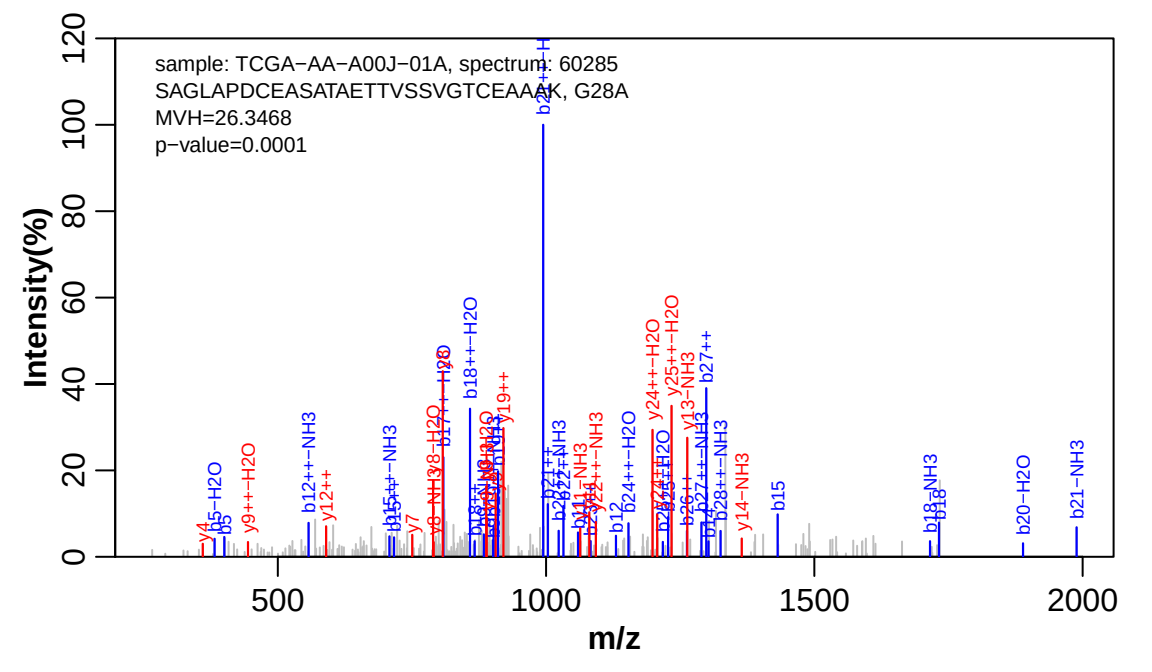

sample: TCGA−AA−A00J−01A, spectrum: 3527
LTLDKLDVEGKR, K9E
MVH=54.4246
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y5++
y3
b7++−NH3
b4−H2O
y8++
y4
y9++
y10++−H2O
y5
y10++
y11++−H2O
y11++
b7

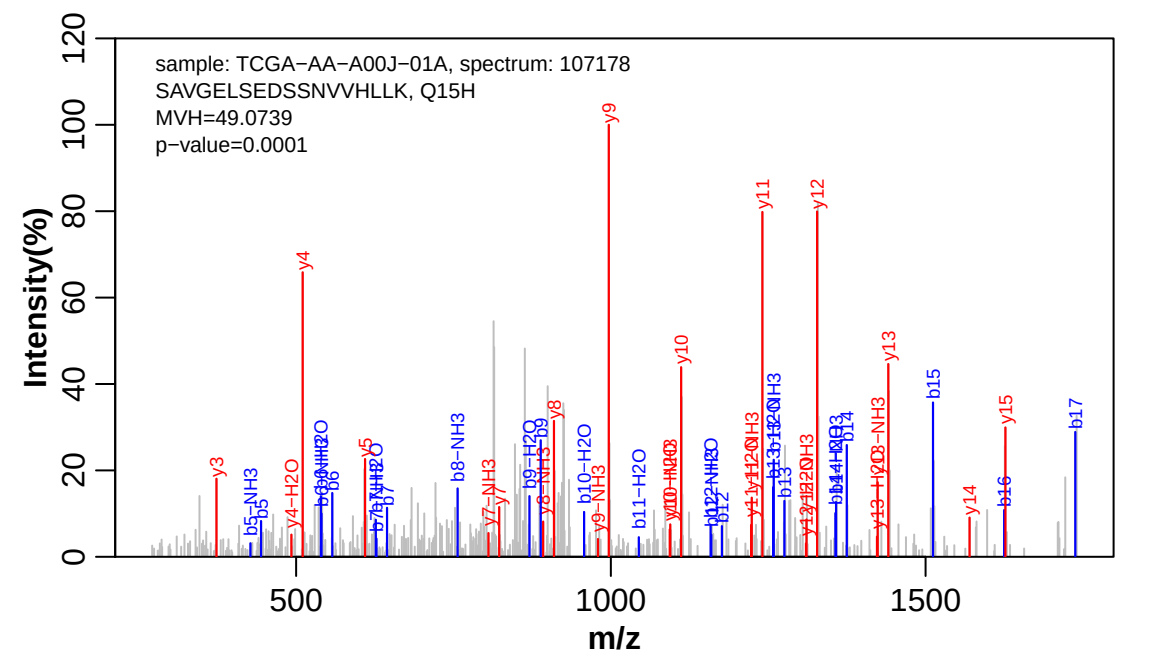

sample: TCGA−AA−A00J−01A, spectrum: 23610
MVLPLACLLTPLK, V3I
MVH=52.6436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
y4
y5
b6
y7
b8
y8
b9
b10
y10
y11

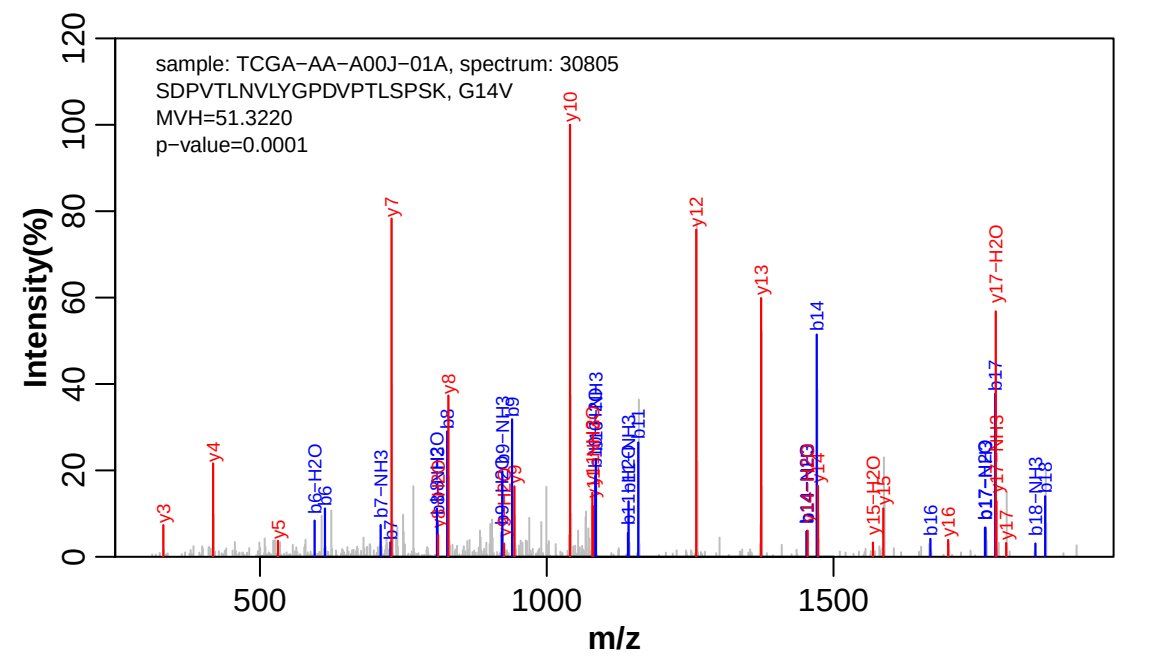

sample: TCGA−AA−A00J−01A, spectrum: 33549
NSLSETVR, M3L
MVH=44.7700
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3−H2O
b3
y3
b4−NH3
b4
y4
y5
y6

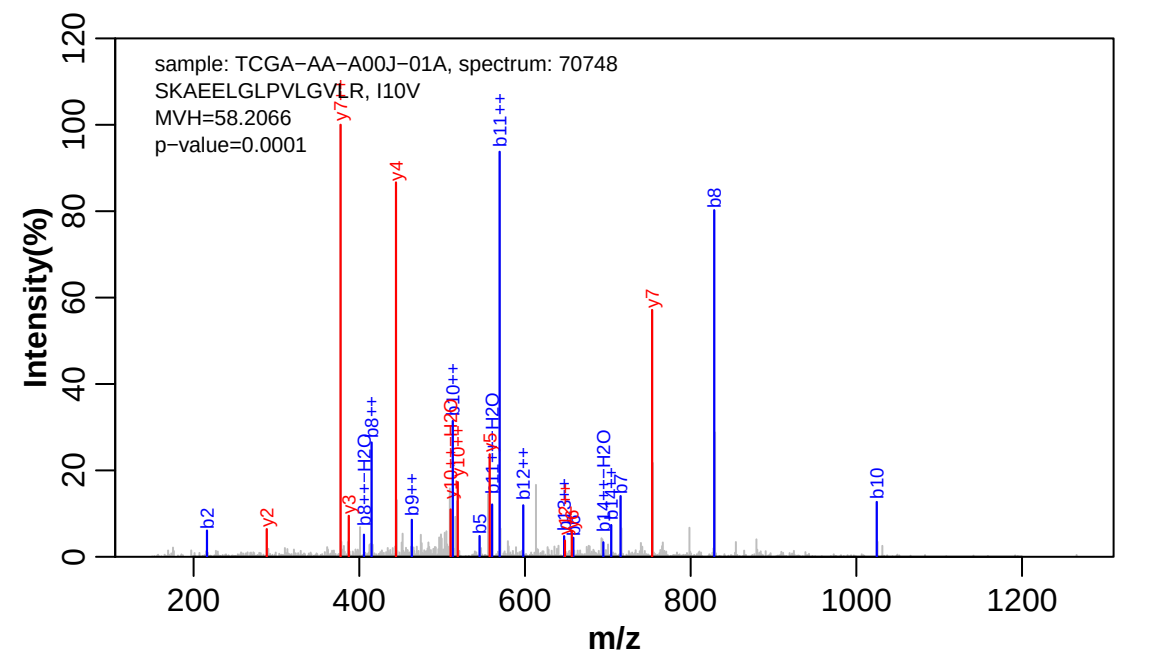

sample: TCGA−AA−A00J−01A, spectrum: 10873
PVAEYWNSQK, D2V
MVH=47.2989
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
y7
y8−NH3
y8
b9
y9

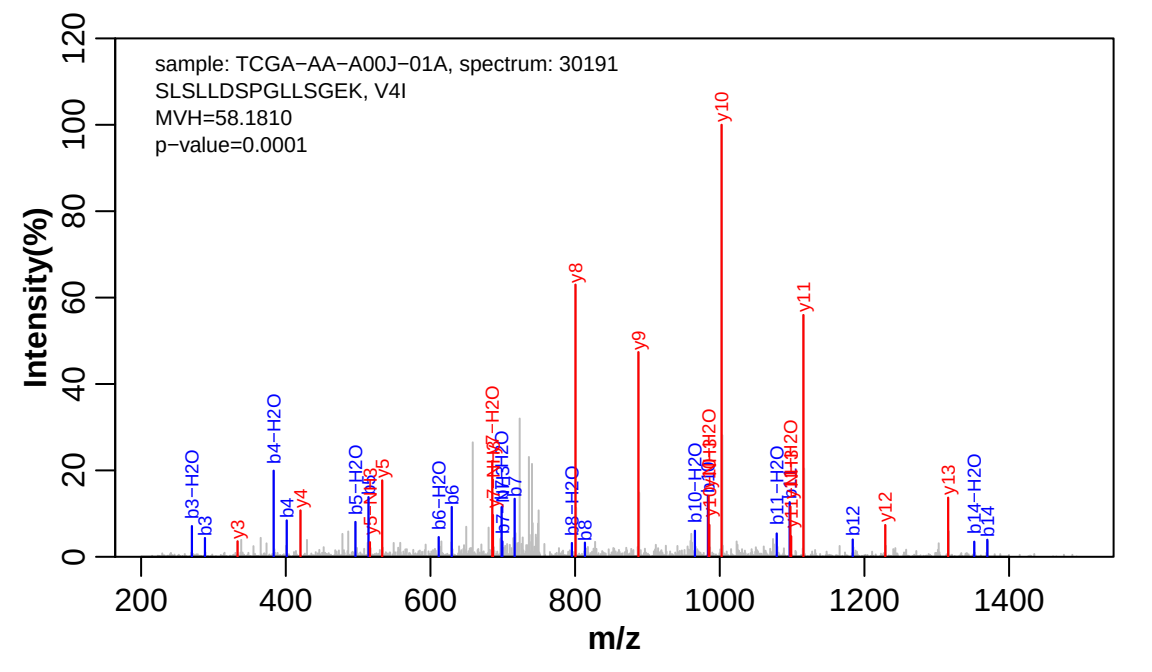

sample: TCGA−AA−A00J−01A, spectrum: 74660
RYEVPLETPR, H10R
MVH=42.7303
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b4
y6++
y6++−H2O
y4
b5++
b6++
b7++
y4++−H2O
y2
y3
b3
y5−H2O
y5
y6−H2O
y6
b6

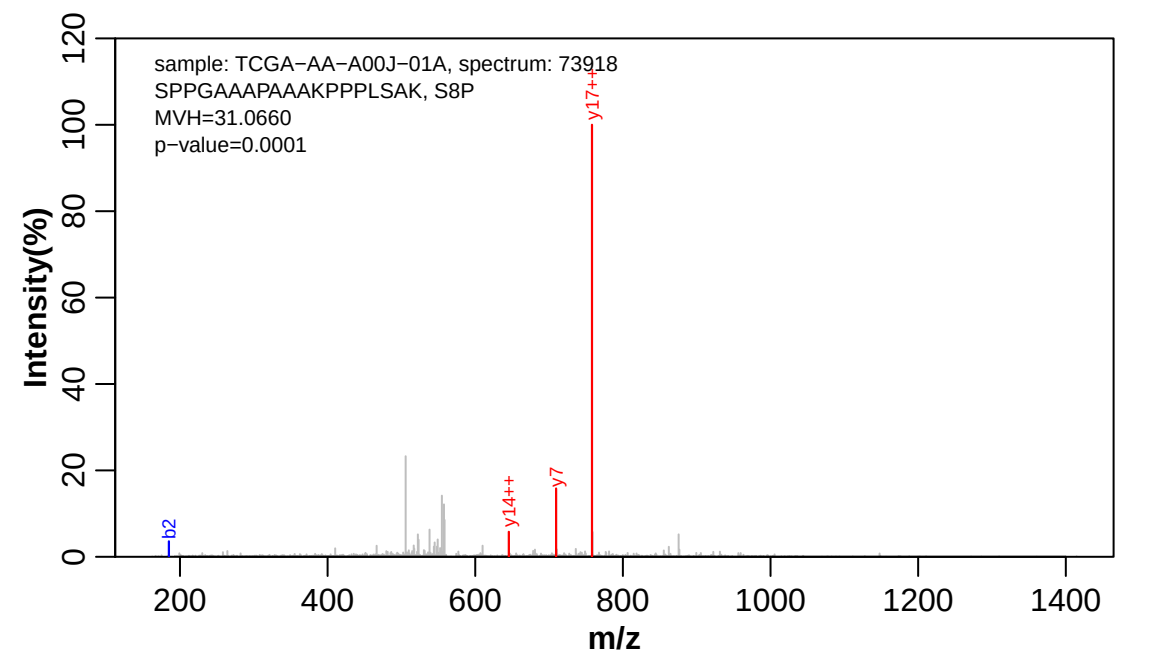

sample: TCGA−AA−A00J−01A, spectrum: 60285
SAGLAPDCEASATAETTVSSVGTCEAAAK, G28A
MVH=26.3468
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
b18++−H2O
y19++
b12++−NH3
y12++
y9++−H2O
b15++−NH3
y7
b27++
y14−NH3
b15
b18−NH3
b20−H2O
b21−NH3

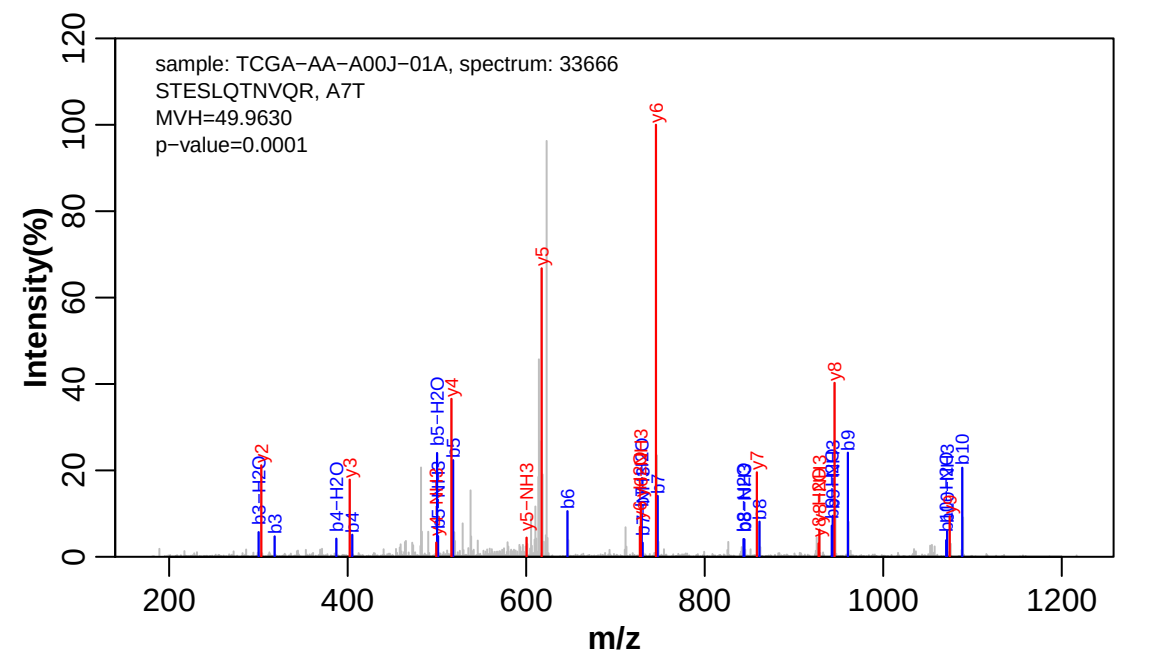

sample: TCGA−AA−A00J−01A, spectrum: 107178
SAVGELSEDSSNVVHLLK, Q15H
MVH=49.0739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y4−H2O
b5−NH3
b5
y5
b7
b8−NH3
y7
y7−NH3
b9−H2O
y8
b10−H2O
y9
y9−NH3
y9
b11−H2O
y10
b12
b12−NH3
y11
b13
y12
y12−NH3
b14
y13
y13−NH3
b15
y14
y15
b16
b17

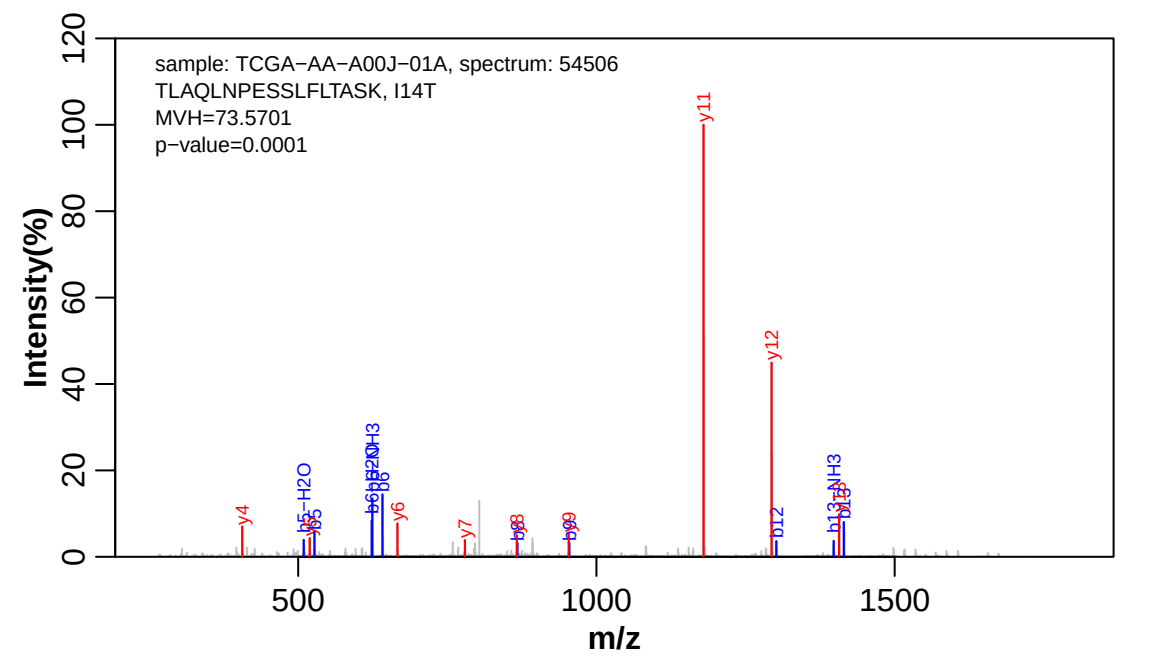

sample: TCGA−AA−A00J−01A, spectrum: 30805
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=51.3220
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y12
y13
y7
y8
y4
y3
y5
b14
y17−H2O
b17
b6−H2O
b7−NH3
b14−NH3
y15−H2O
b16
y16
b17−NH3
y17
b18−NH3
b18

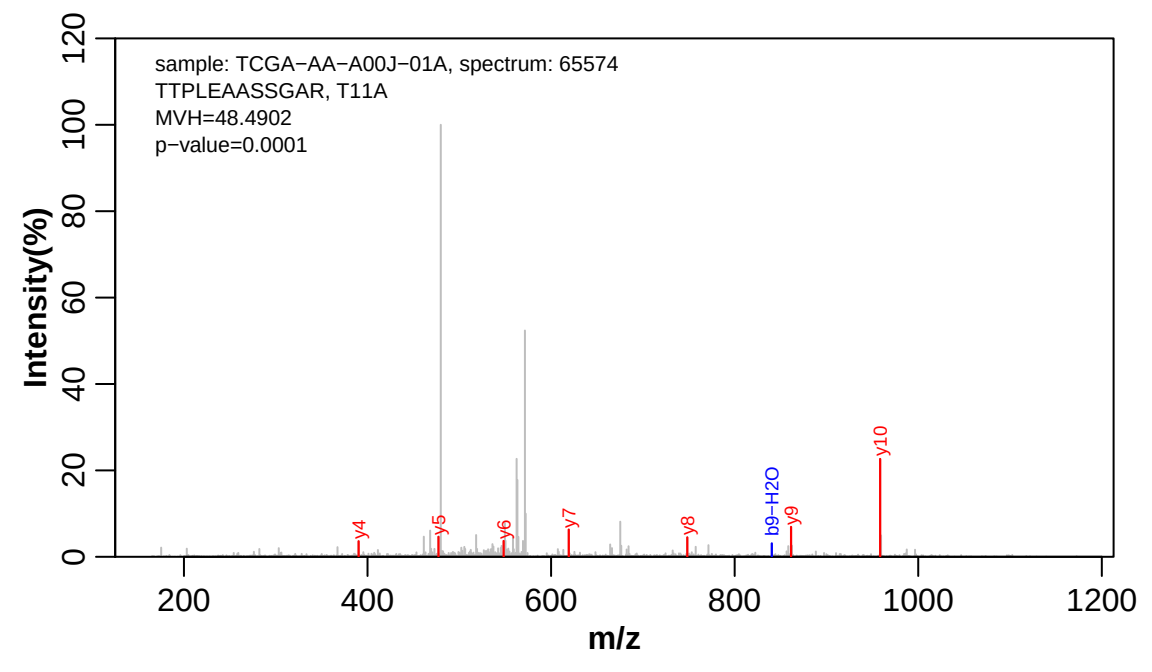

sample: TCGA−AA−A00J−01A, spectrum: 70748
SKAEELGLPVLGVLR, I10V
MVH=58.2066
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y7++
y4
b11++
b8
y7
b10
b2
y2
y3
b8++−H2O
b8++
b9++
y10++−H2O
y10++
y5−H2O
b11++
b12++
b5
b14++−H2O
b7

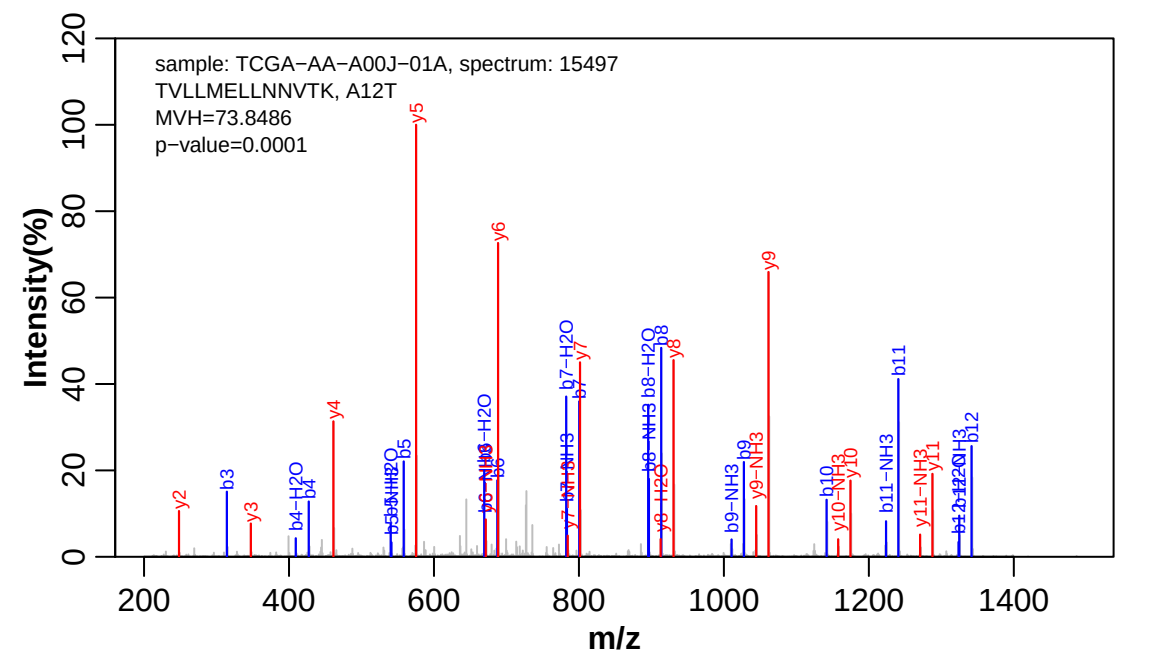

sample: TCGA−AA−A00J−01A, spectrum: 30191
SLSLLDSPGLLSGEK, V4I
MVH=58.1810
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y8
y9
y11
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
y5−NH3
y5
b6−H2O
b6
b7−NH3−H2O
b7−H2O
b7
b8−H2O
b8
y10−H2O
y10−NH3
y10−H2O
b10−H2O
y11−H2O
y11−NH3−H2O
b11−H2O
b12
y12
y13
b14−H2O
b14

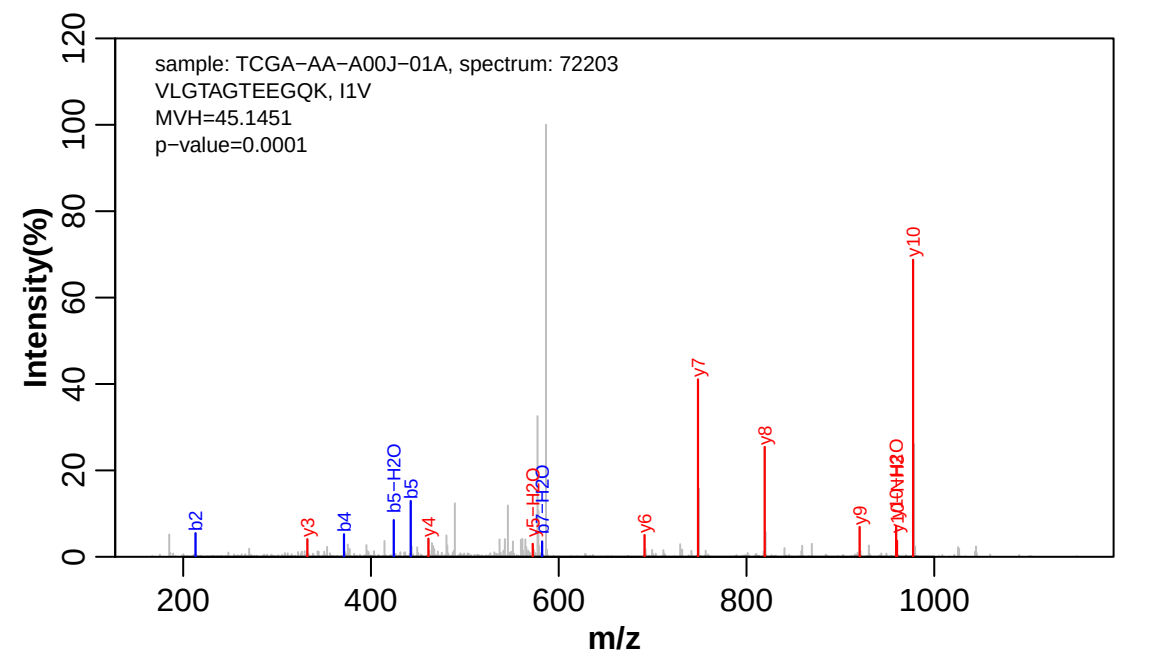

sample: TCGA−AA−A00J−01A, spectrum: 73918
SPPGAAAPAAAKPPPLSAK, S8P
MVH=31.0660
p−value=0.0001
y17++
y14++
y7
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

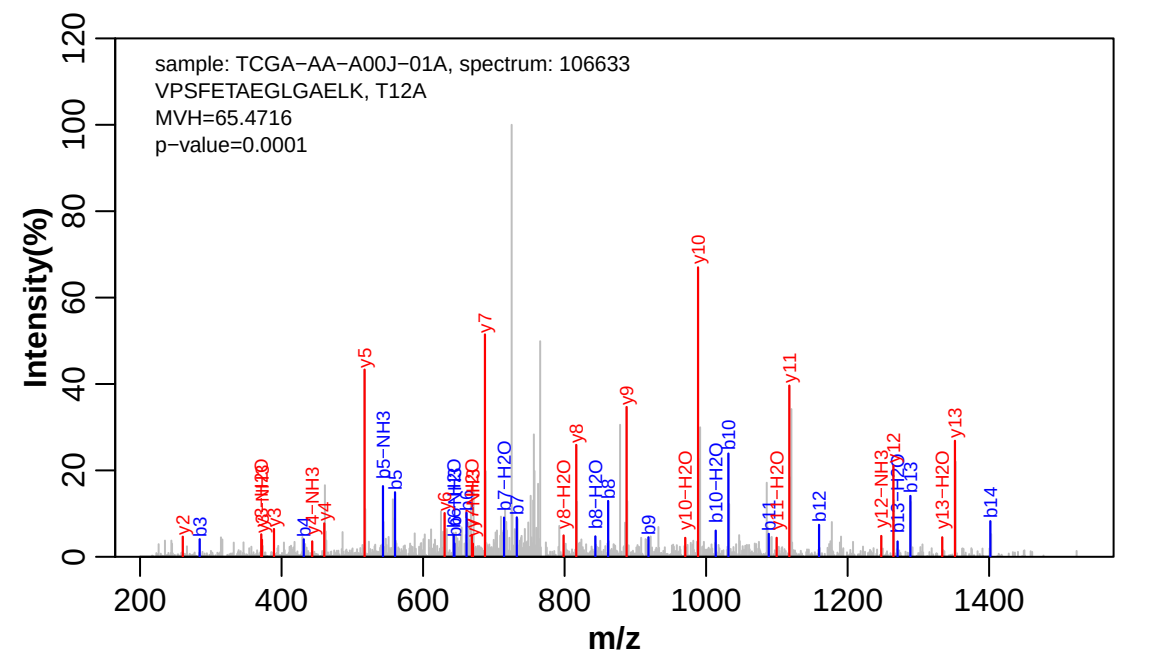

sample: TCGA−AA−A00J−01A, spectrum: 33666
STESLQTNVQR, A7T
MVH=49.9630
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y8
y4
b5−H2O
b5
y5−NH3
b6
b4−H2O
y3
b3−H2O
y2
b3
b4
y7
b9
b10

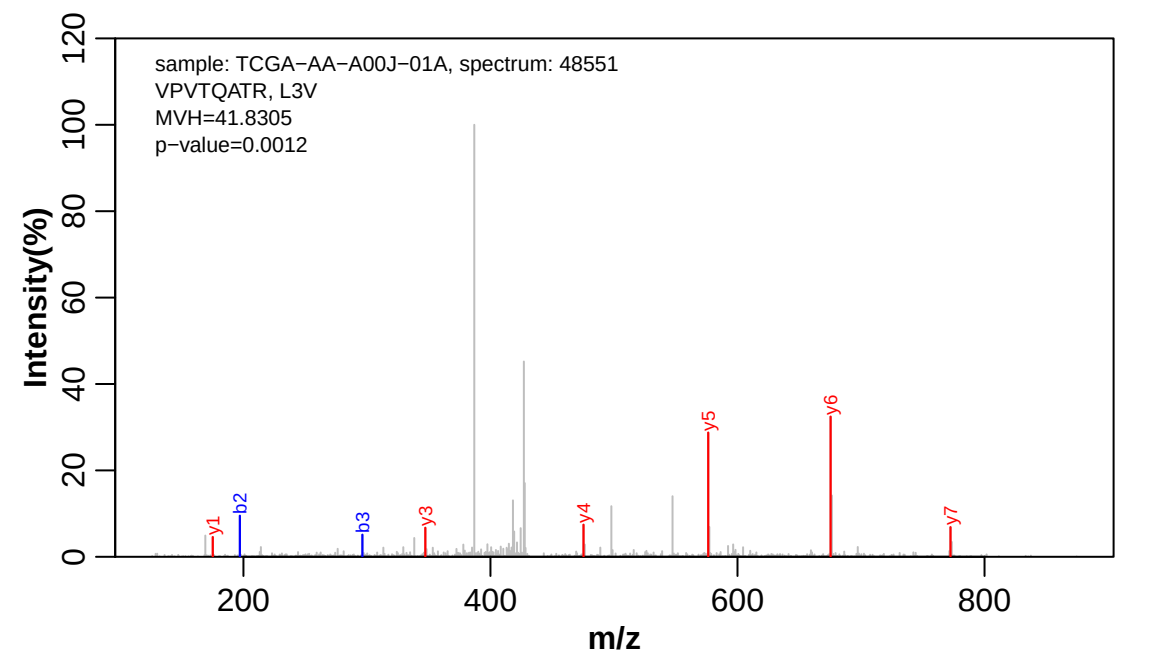

sample: TCGA−AA−A00J−01A, spectrum: 54506
TLAQLNPESSLFLTASK, I14T
MVH=73.5701
p−value=0.0001
Intensity(%)
m/z
y11
y12
y6
y7
y4
b5−H2O
b6−H2O
b6−NH3
b6
b8
b9
b12
b13−NH3
b13
b15
0
20
40
60
80
100
120
500
1000
1500

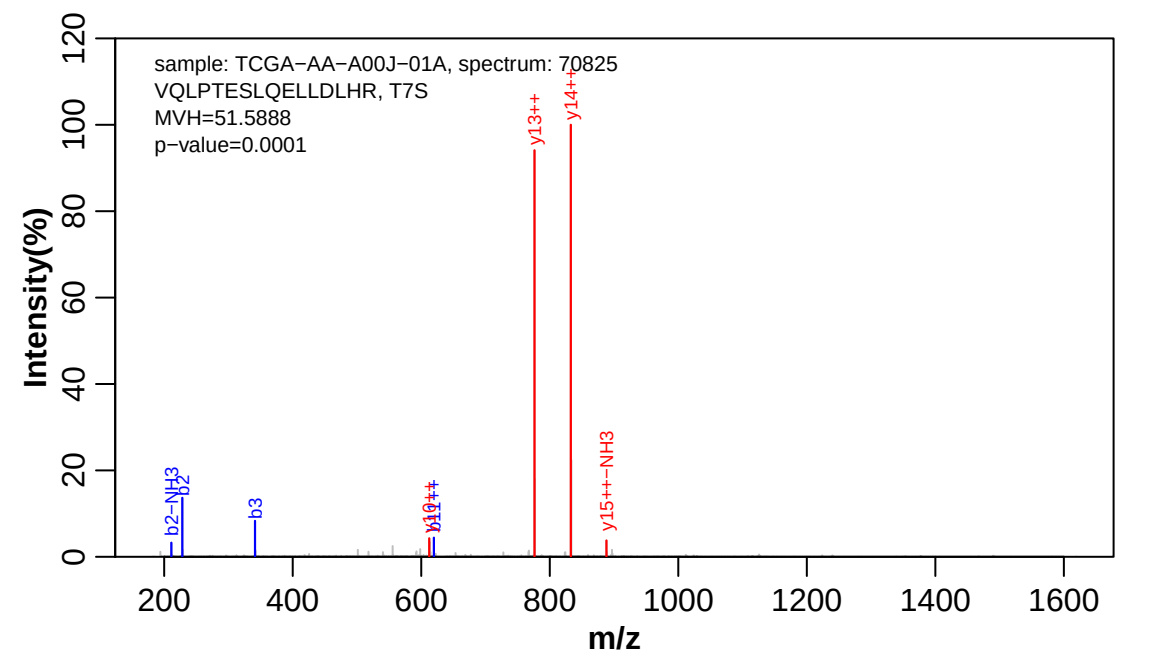

sample: TCGA−AA−A00J−01A, spectrum: 65574
TTPLEAASSGAR, T11A
MVH=48.4902
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y4
y5
y6
y7
y8
b9−H2O
y9
y10

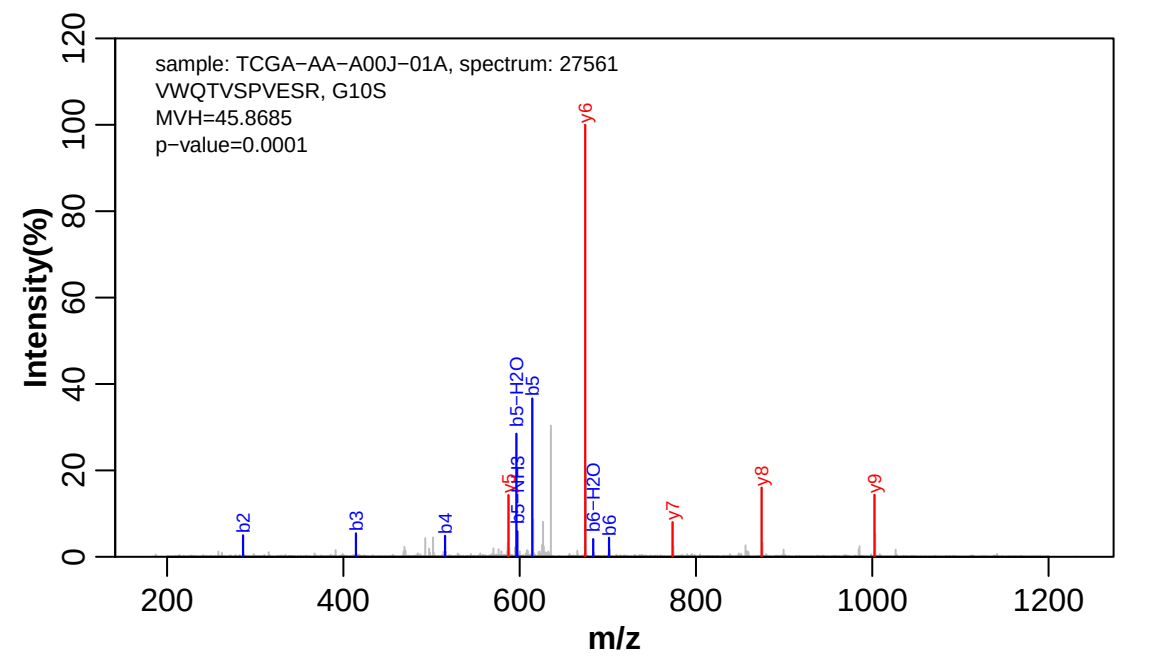

sample: TCGA−AA−A00J−01A, spectrum: 15497
TVLLMELLNNVTK, A12T
MVH=73.8486
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y6
y9
y4
y8
y7
b11
b12
y2
b3
y3
b4
b5
b6
b7
b8
b9
y10
y11
b10

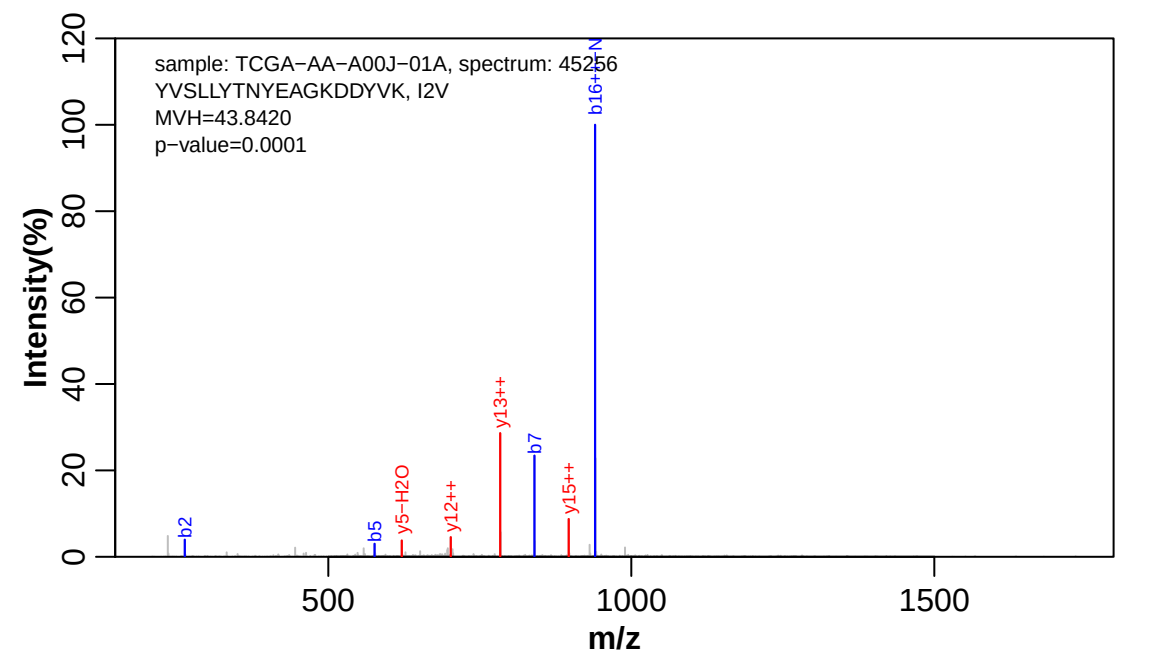

sample: TCGA−AA−A00J−01A, spectrum: 72203
VLGTAGTEEGQK, I1V
MVH=45.1451
p−value=0.0001
Intensity(%)
m/z
b2
y3
b4
b5−H2O
b5
y4
y5−H2O
b7−H2O
y6
y7
y8
y9
y10
0
20
40
60
80
100
120
200
400
600
800
1000

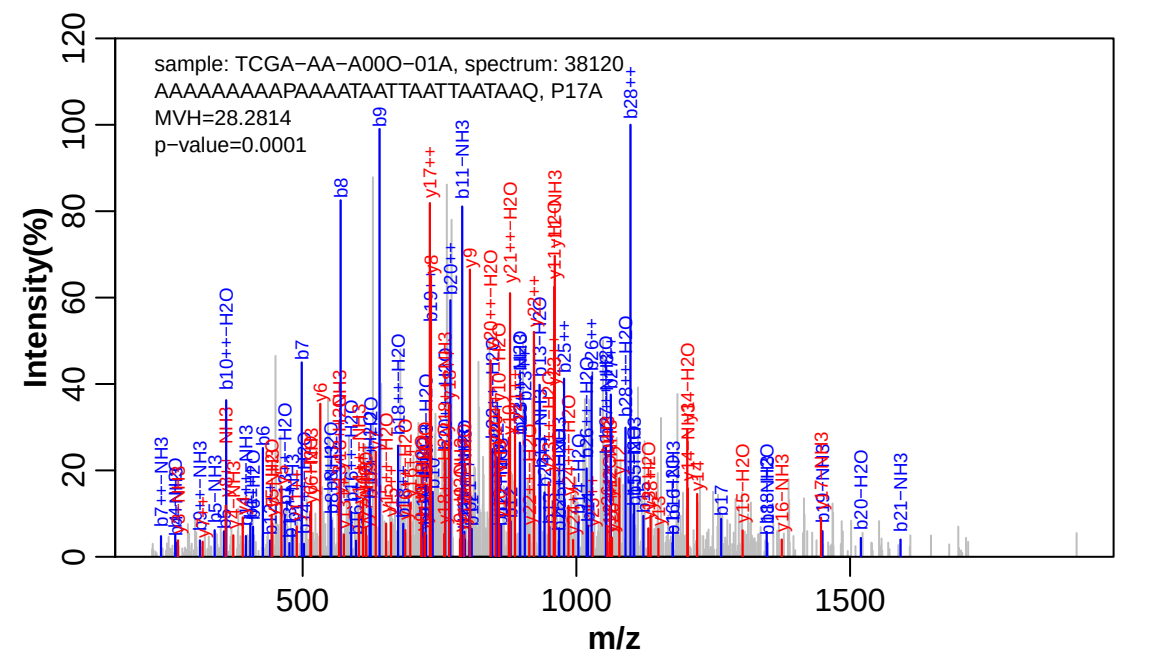

sample: TCGA−AA−A00J−01A, spectrum: 106633
VPSFETAEGLGAELK, T12A
MVH=65.4716
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b4−NH3
y4
y5
b5−NH3
b5
y7
b7−H2O
b7
y8
y8−H2O
b8−H2O
b8
b9
y9
y10
y10−H2O
b10−H2O
b10
y11
y11−H2O
b12
y12−NH3
y12
b13−H2O
b13
y13
y13−H2O
b14

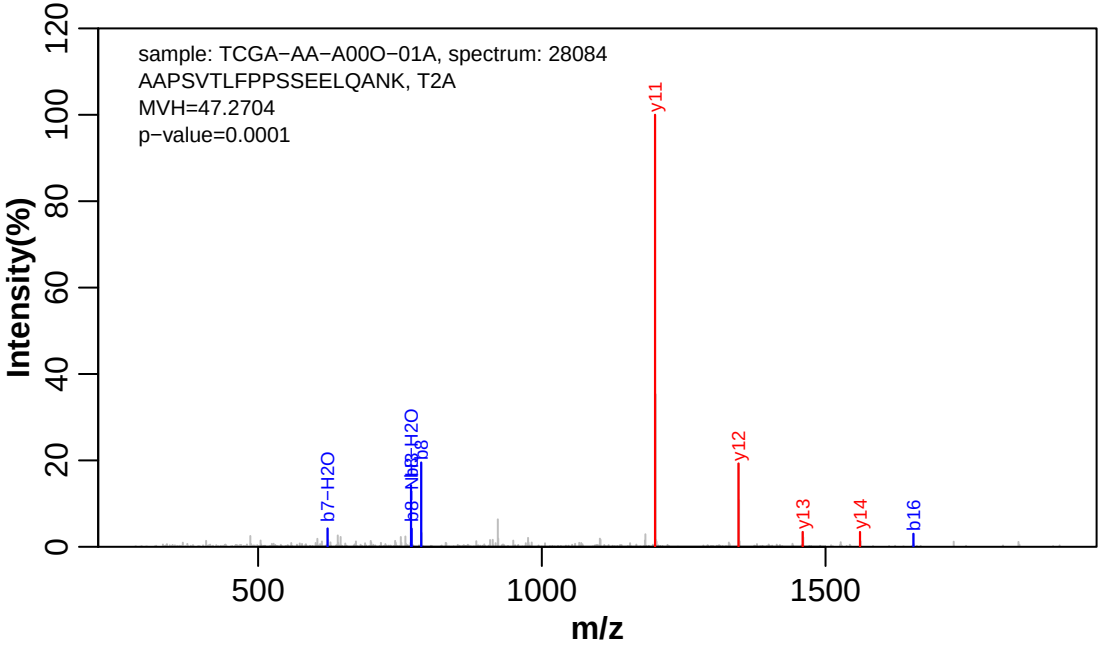

sample: TCGA−AA−A00J−01A, spectrum: 48551
VPVTQATR, L3V
MVH=41.8305
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

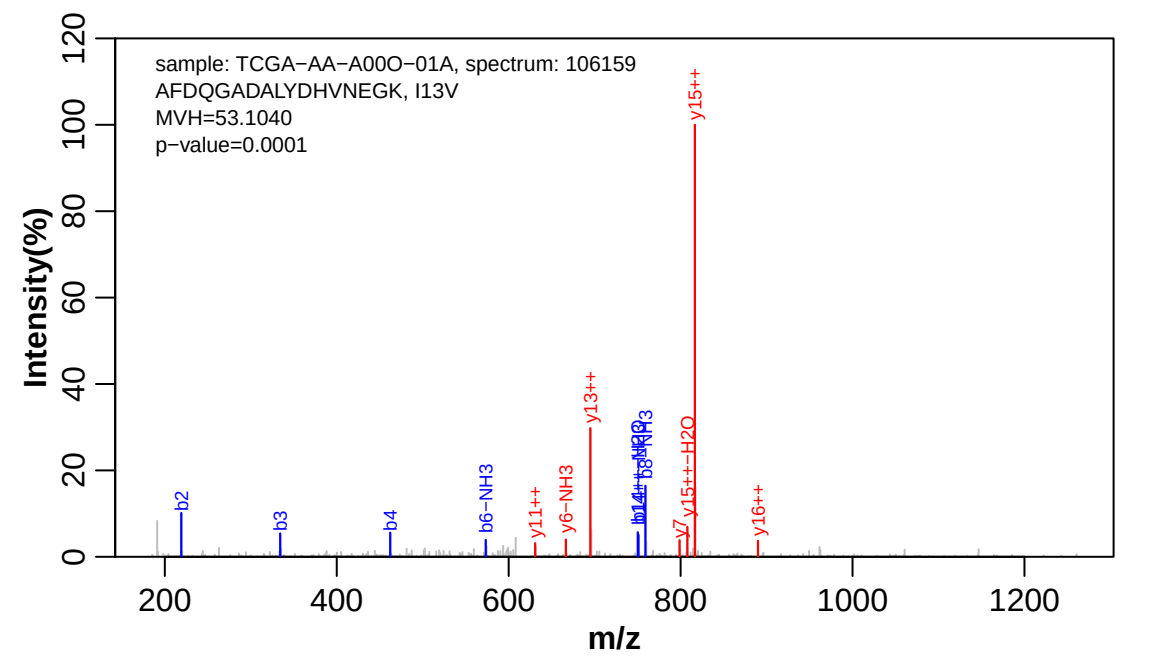

sample: TCGA−AA−A00J−01A, spectrum: 70825
VQLPTESLQELLDLHR, T7S
MVH=51.5888
p−value=0.0001
y13++
y14++
b2−NH3
b2
b3
y10++
y11++
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

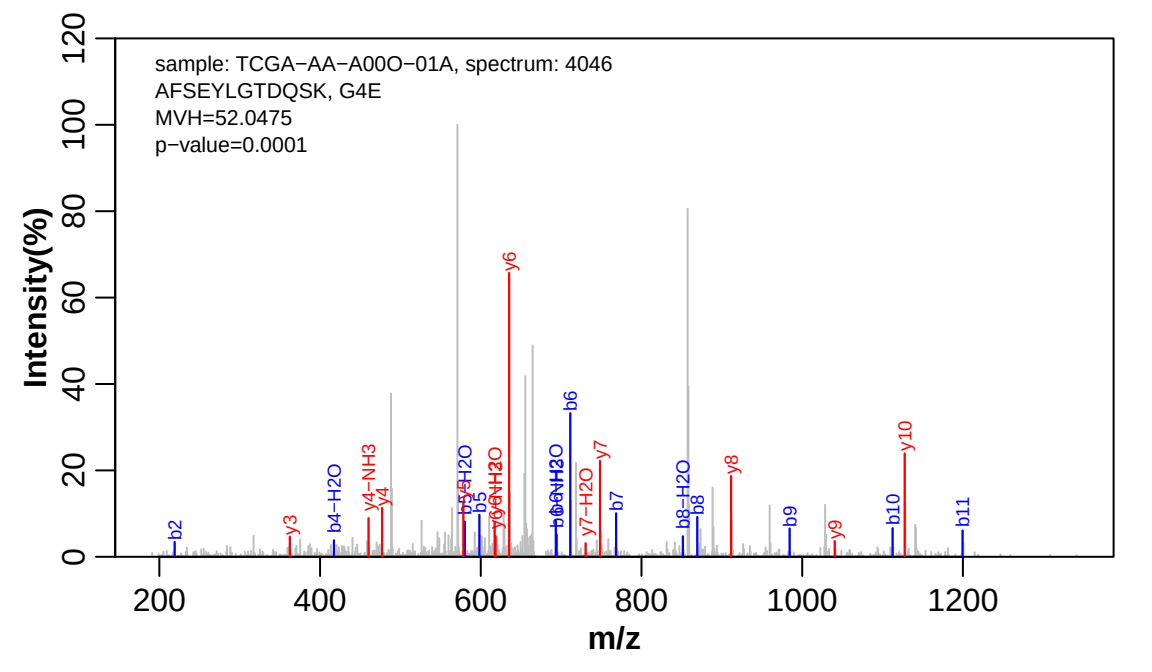

sample: TCGA−AA−A00J−01A, spectrum: 27561
VWQTVSPVESR, G10S
MVH=45.8685
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b5−H2O
b5
y5
b5−NH3
b6−H2O
b6
y7
y8
y9
b2
b3
b4

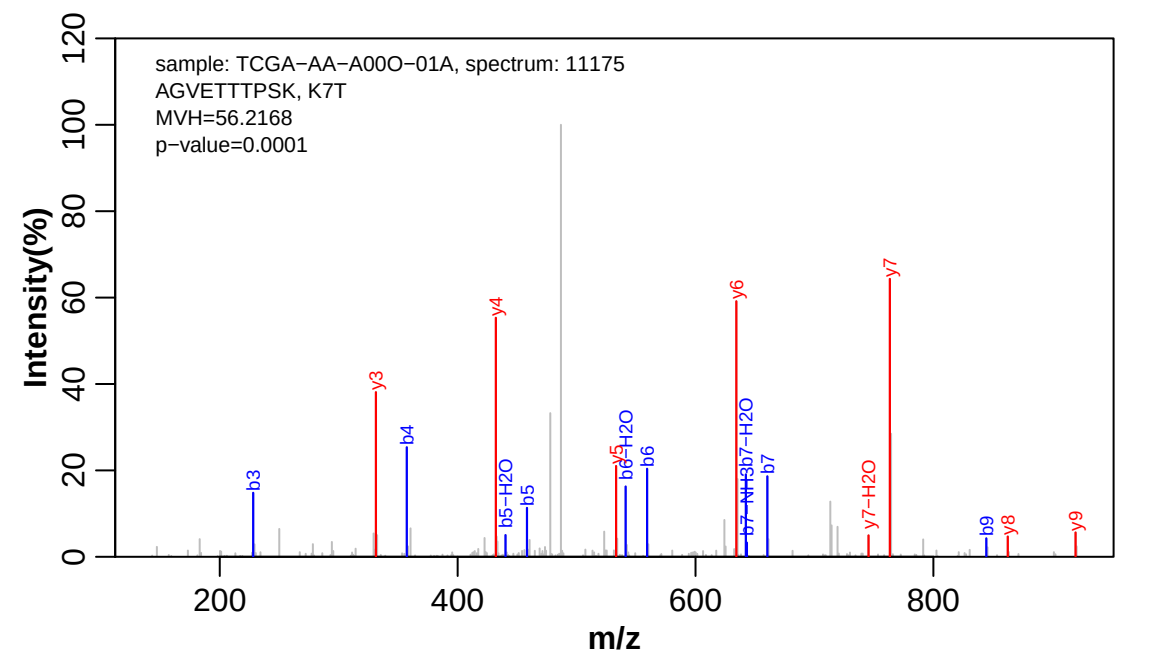

sample: TCGA−AA−A00J−01A, spectrum: 45256
YVSLLYTNYEAGKDDYVK, I2V
MVH=43.8420
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
y5−H2O
b5
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

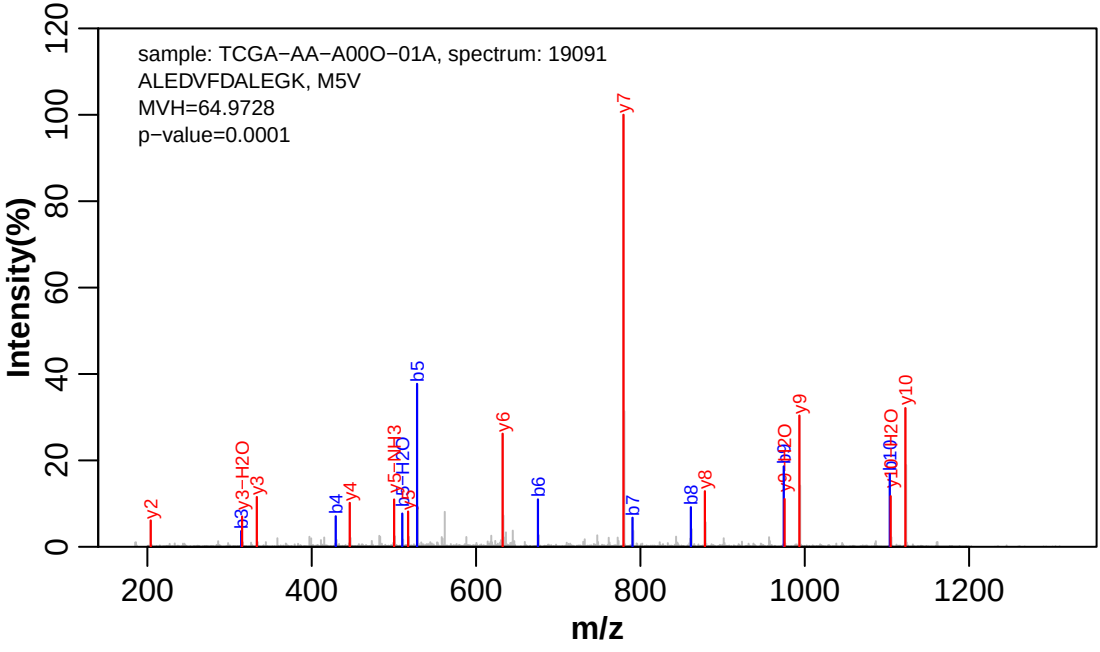

sample: TCGA−AA−A00O−01A, spectrum: 38120
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=28.2814
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

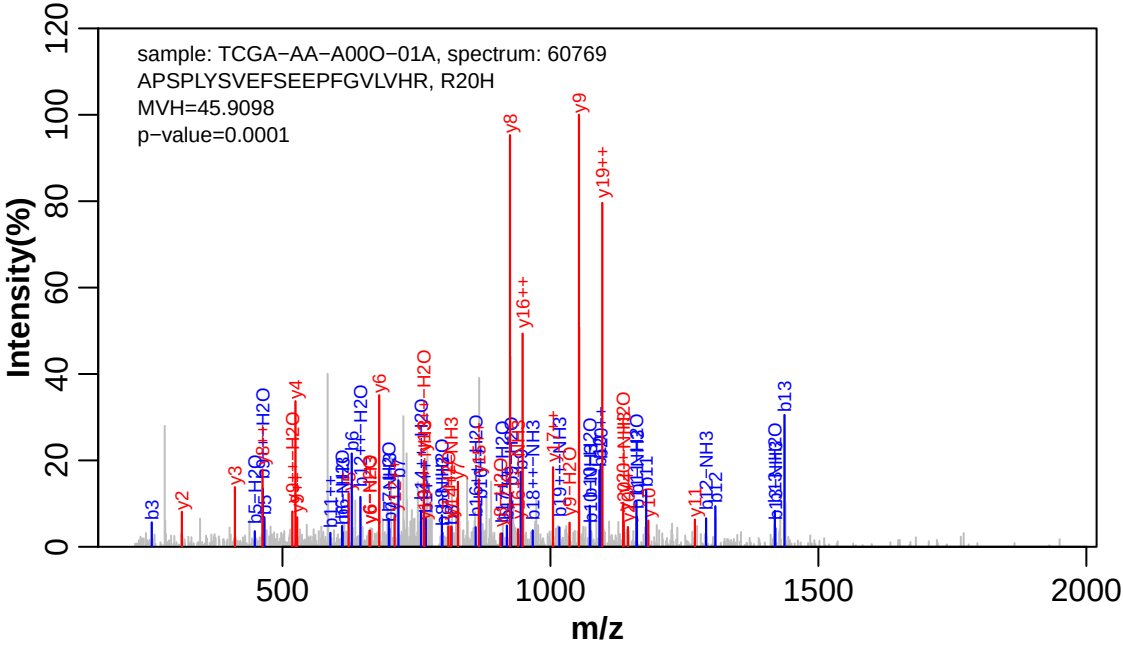

sample: TCGA−AA−A00O−01A, spectrum: 28084
AAPSVTLFPPSSEELQANK, T2A
MVH=47.2704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b16
b7−H2O
b8

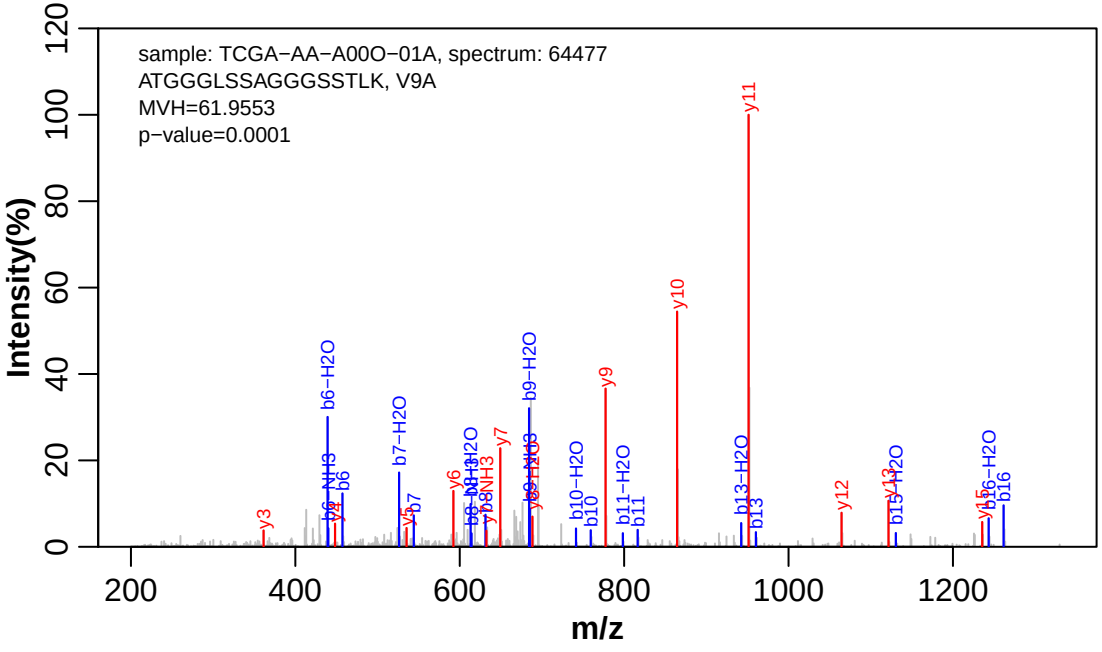

sample: TCGA−AA−A00O−01A, spectrum: 106159
AFDQGADALYDHVNEGK, I13V
MVH=53.1040
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
b6−NH3
y11++
y6−NH3
y13++
y15++−H2O
y7
y15++
y16++

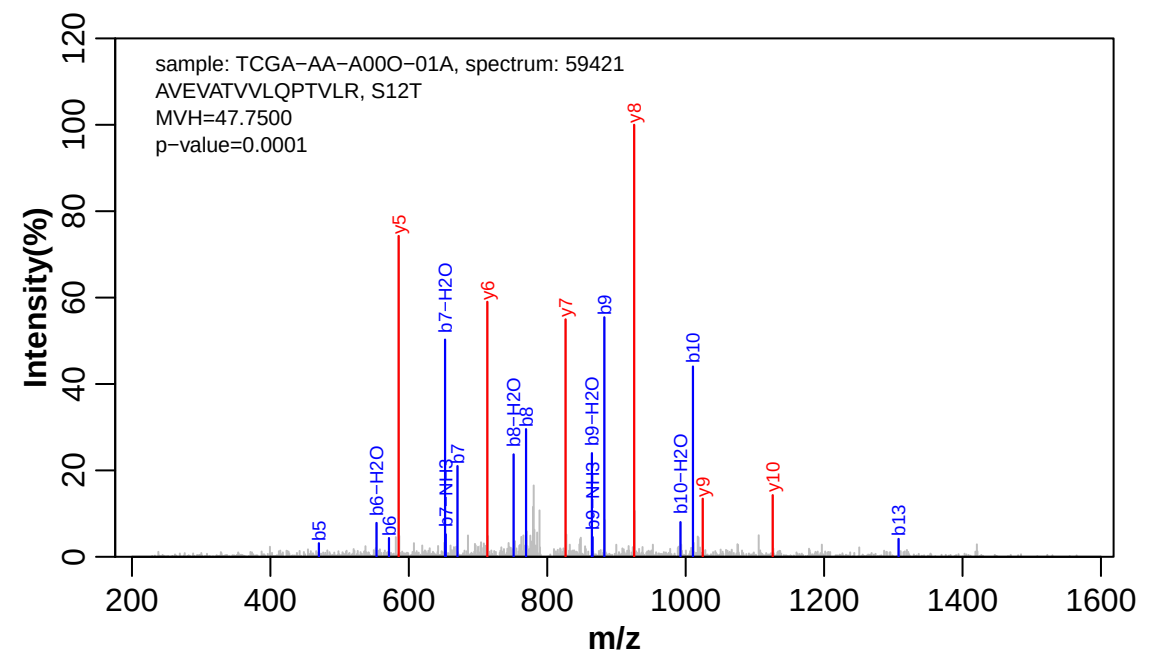

sample: TCGA−AA−A00O−01A, spectrum: 4046
AFSEYLGTDQSK, G4E
MVH=52.0475
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4−NH3
y4
b5−H2O
b5
y6−NH3
y6
b6
y7−H2O
y7
b7
b8−H2O
b8
y8
b9
y9
b10
y10
b11

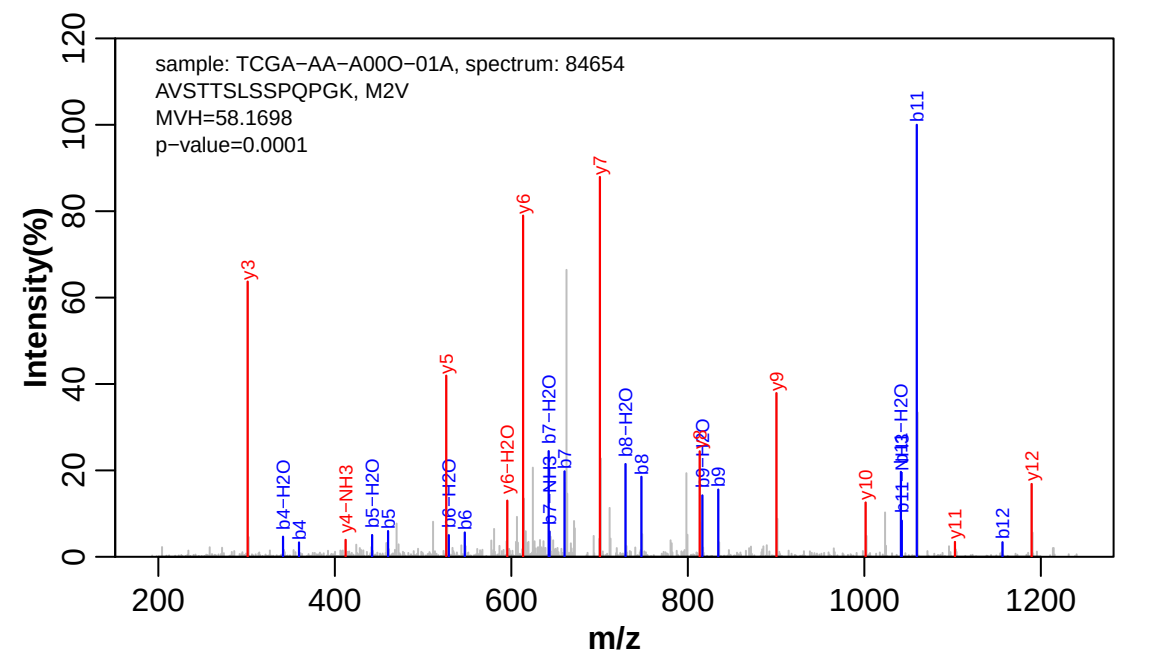

sample: TCGA−AA−A00O−01A, spectrum: 11175
AGVETTTPSK, K7T
MVH=56.2168
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

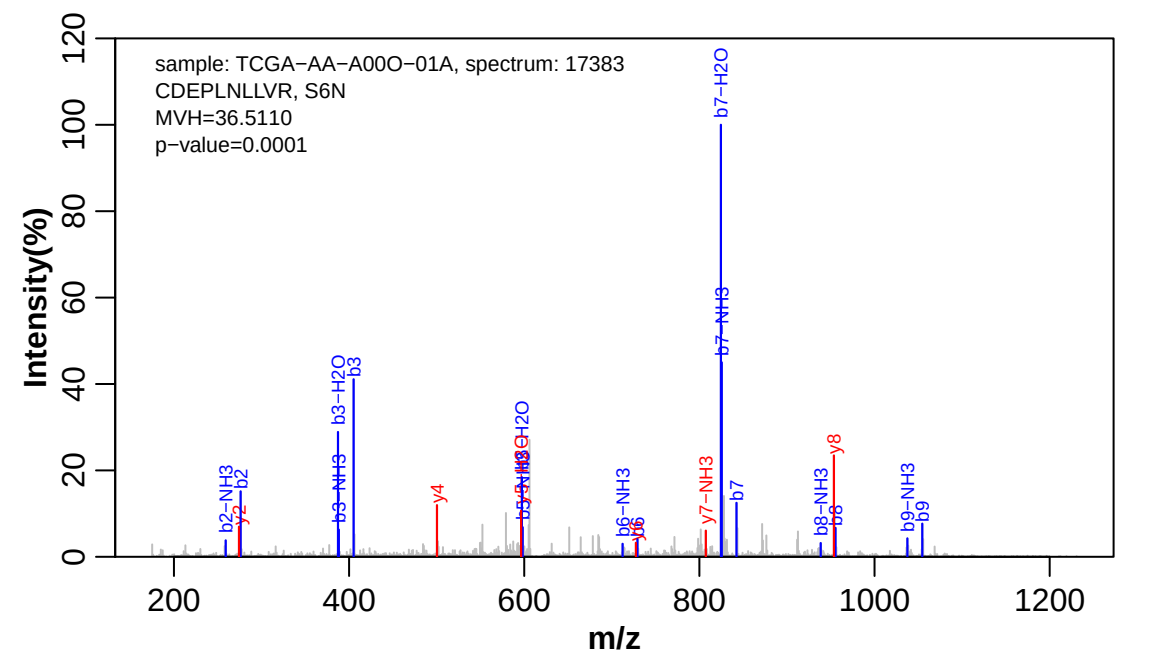

sample: TCGA−AA−A00O−01A, spectrum: 19091
ALEDVFDALEGK, M5V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
y5−NH3
b5−H2O
b5
y6
b6
y7
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

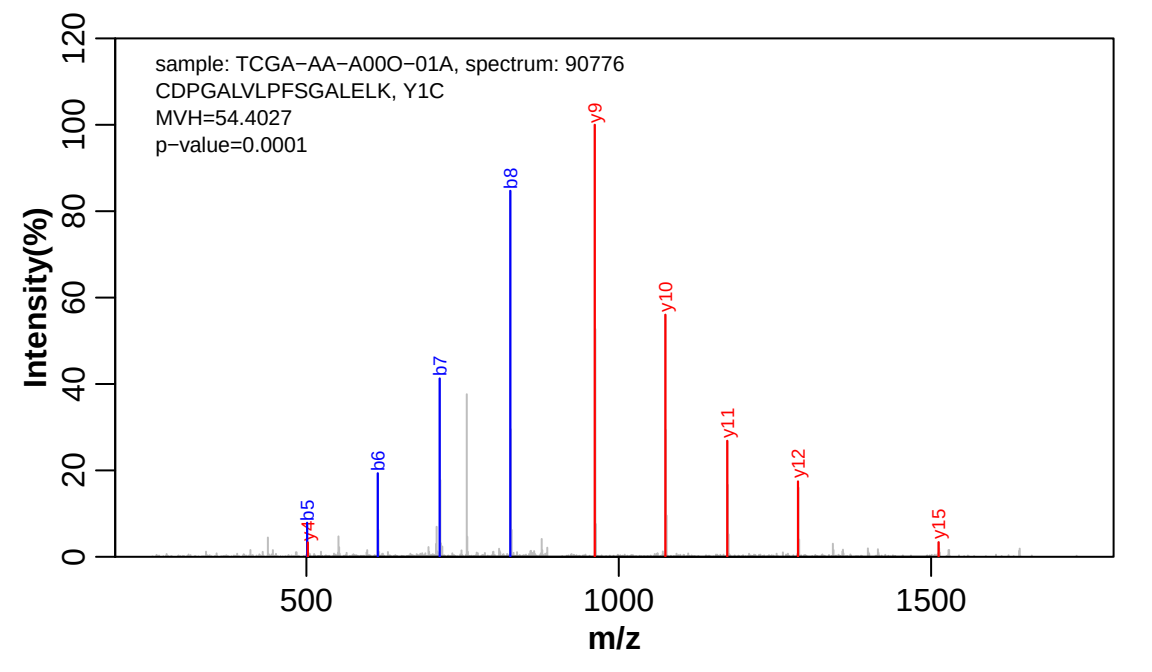

sample: TCGA−AA−A00O−01A, spectrum: 60769
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=45.9098
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y2
y3
y4
y6
y8
y9
y16++
y19++
b13

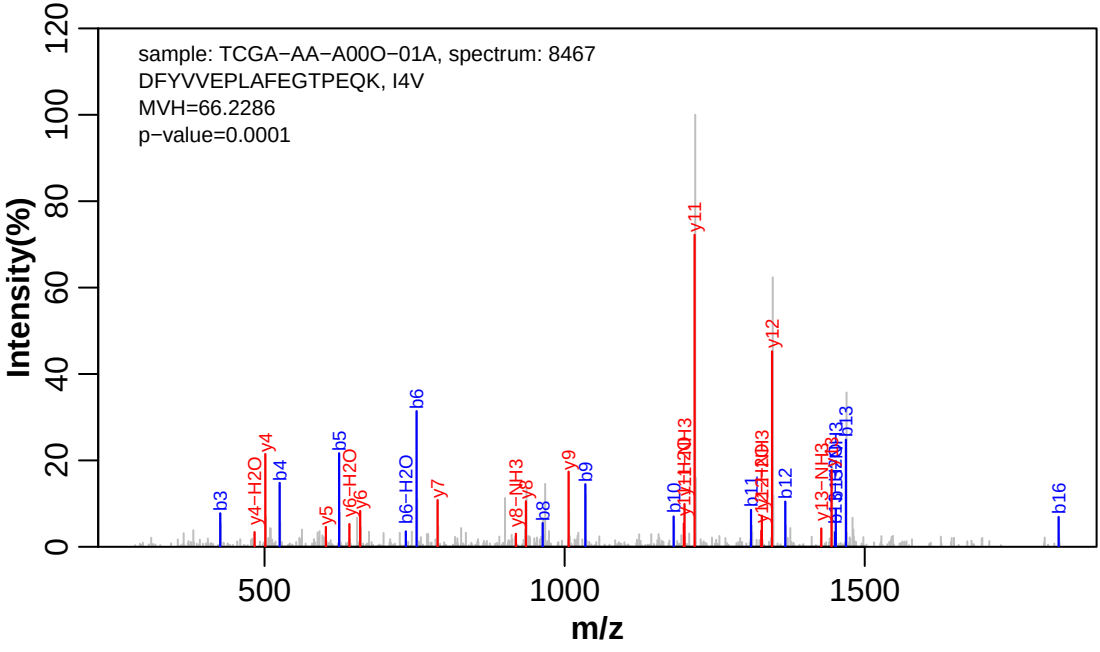

sample: TCGA−AA−A00O−01A, spectrum: 64477
ATGGGLSSAGGGSSTLK, V9A
MVH=61.9553
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
b6−H2O
b6−NH3
b6
y6
b7−H2O
y5
b7
b8−H2O
b8−NH3
y7
y8−NH3
b9−H2O
b9−NH3
b10−H2O
b10
y9
b11−H2O
b11
y10
b13−H2O
b13
y11
y12
b15−H2O
y13
y15
b16−H2O
b16

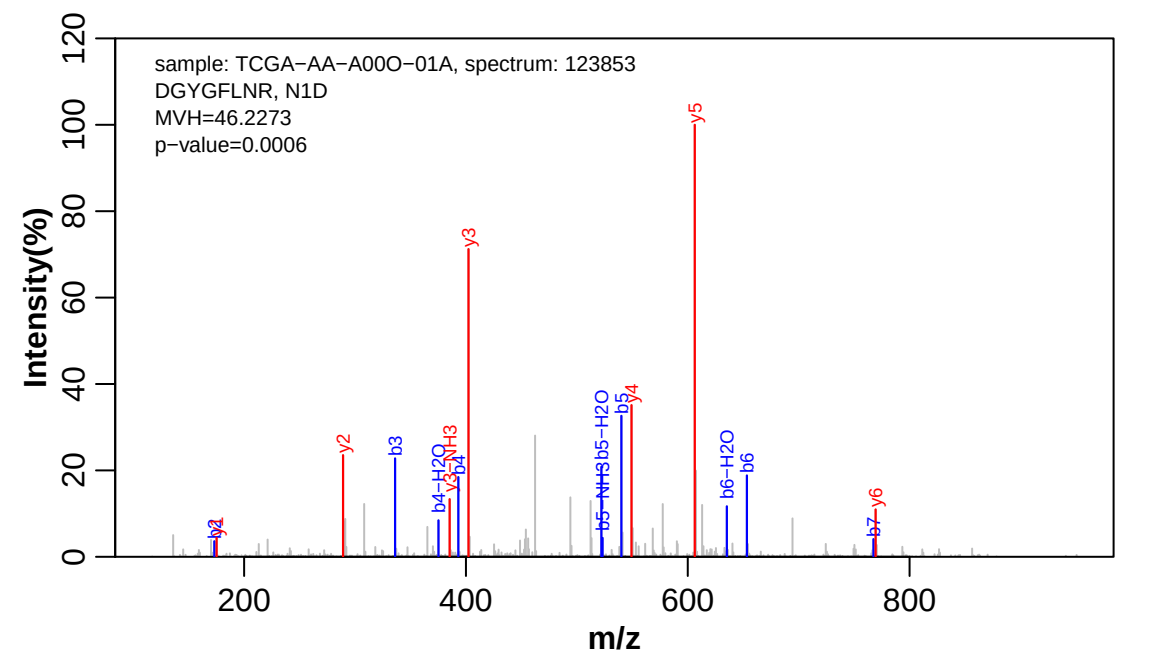

sample: TCGA−AA−A00O−01A, spectrum: 59421
AVEVATVVLQPTVLR, S12T
MVH=47.7500
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5
b6−H2O
b6
b7−NH3
b7
b7−H2O
y5
y6
b8−H2O
b8
y7
b9
b9−NH3
b9−H2O
y8
b10
b10−H2O
y9
y10
b13

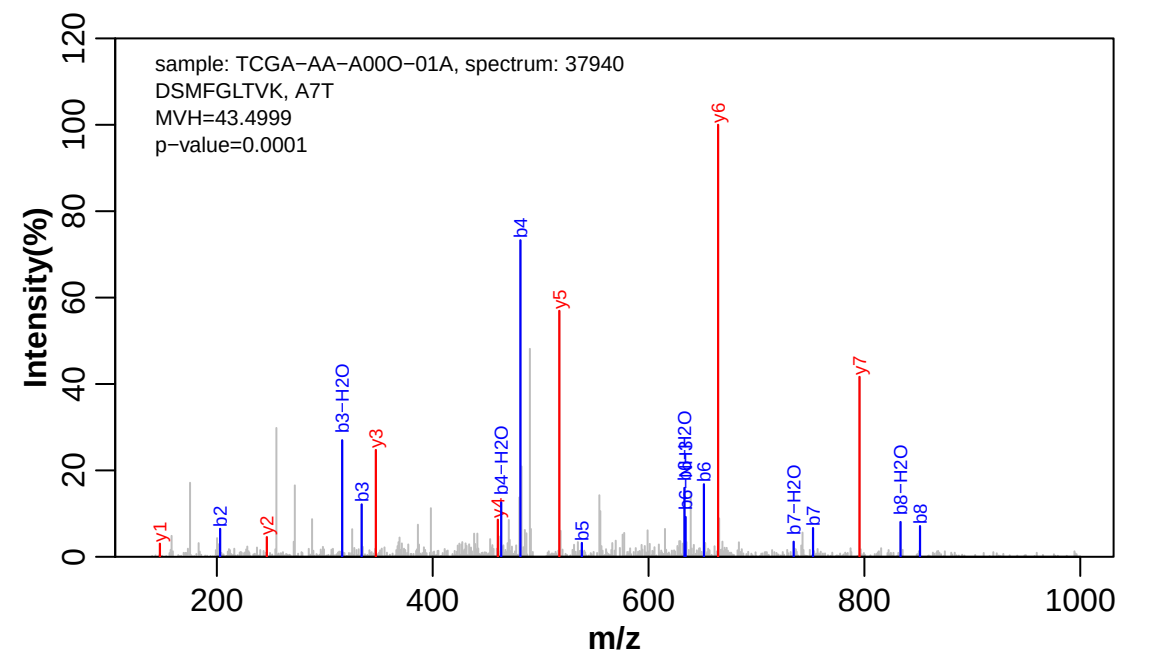

sample: TCGA−AA−A00O−01A, spectrum: 84654
AVSTTSLSSPQPGK, M2V
MVH=58.1698
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
b4−H2O
b4
y4−NH3
b5−H2O
b5
y5
b6−H2O
b6
y6
y6−H2O
b7−NH3
b7−H2O
b7
y7
b8−H2O
b8
b9−H2O
b9
y9
y10
b11
b11−NH3
b11−H2O
y11
b12
y12

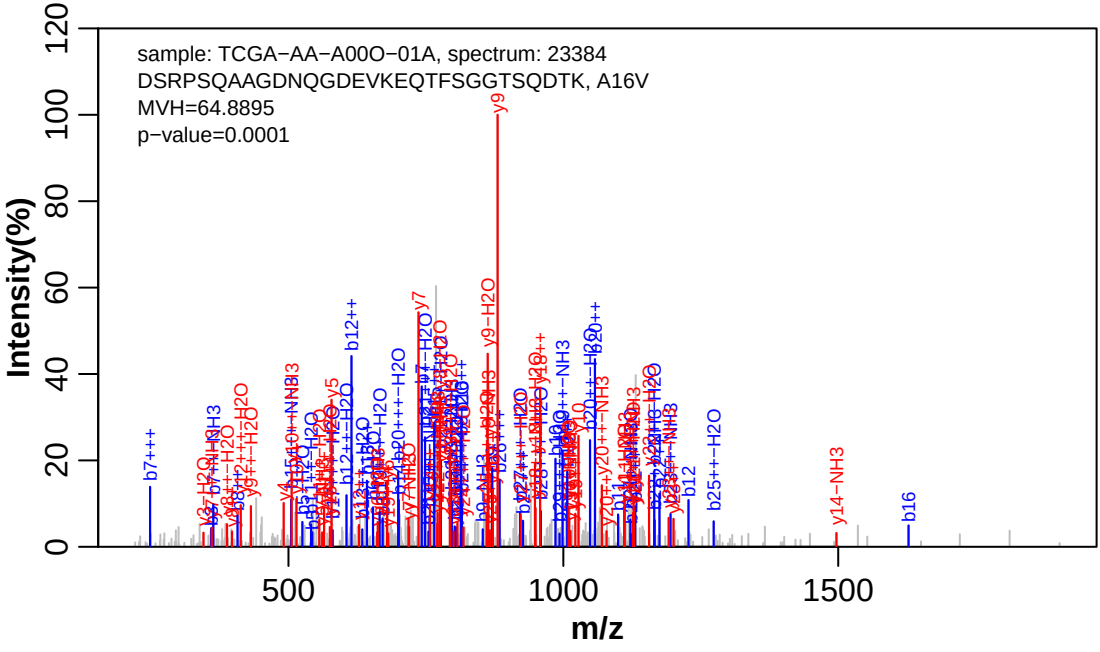

sample: TCGA−AA−A00O−01A, spectrum: 17383
CDEPLNLLVR, S6N
MVH=36.5110
p−value=0.0001
Intensity(%)
m/z
b7−H2O
b7−NH3
b3−H2O
b3
b3−NH3
b2−NH3
b2
y2
y4
b6−NH3
y6
y7−NH3
b7
b8−NH3
b8
y8
b9−NH3
b9

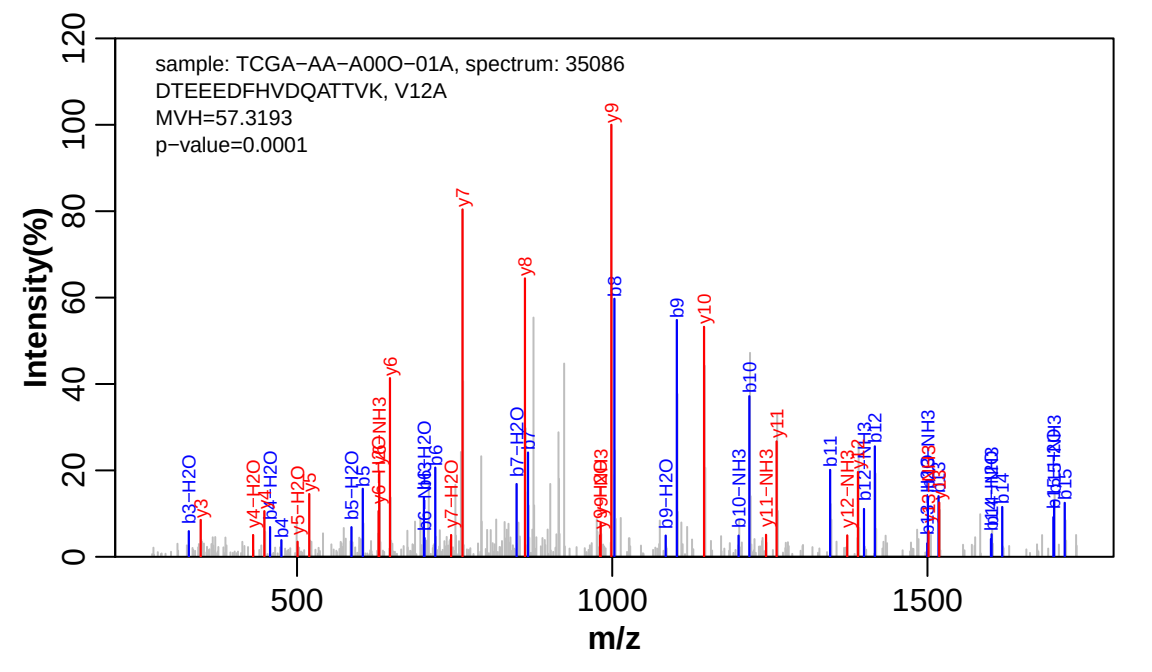

sample: TCGA−AA−A00O−01A, spectrum: 90776
CDPGALVLPFSGALELK, Y1C
MVH=54.4027
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
b7
b8
y9
y10
y11
y12
y15

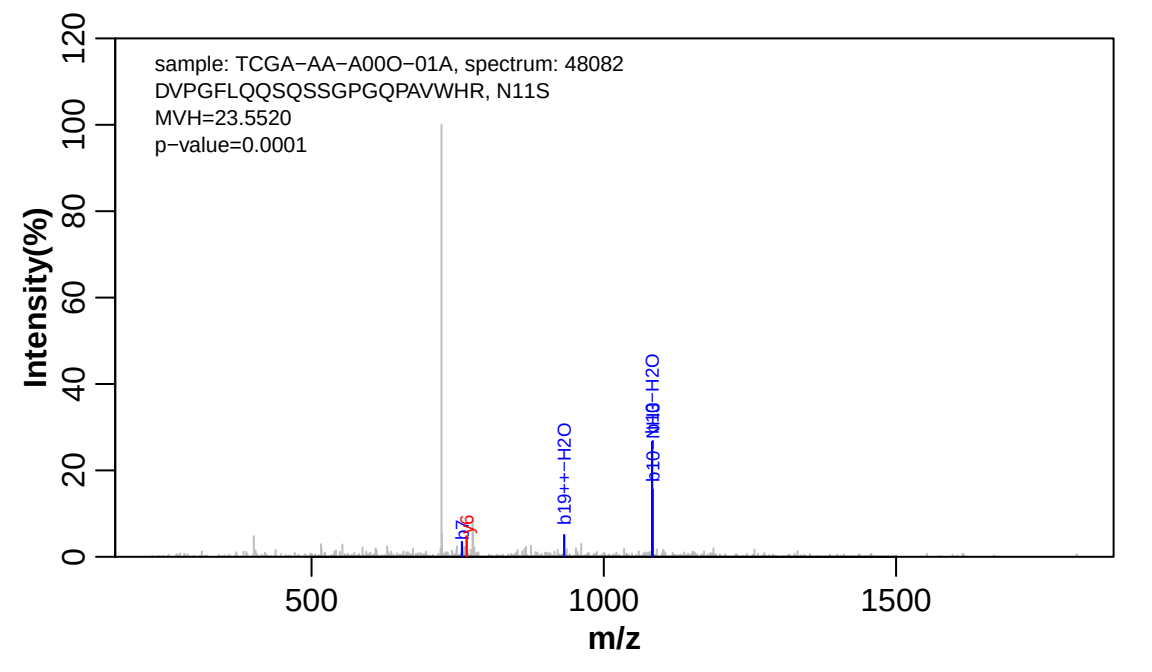

sample: TCGA−AA−A00O−01A, spectrum: 8467
DFYVVEPLAFEGTPEQK, I4V
MVH=66.2286
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4−H2O
y4
b4
y5
b5
y6−H2O
y6
b6
b6−H2O
y7
y8−NH3
y8
b8
y9
b9
b10
y11−H2O
y11−NH3
y11
b11
y12−H2O
y12−NH3
y12
b12
y13−NH3
y13
b13
b16

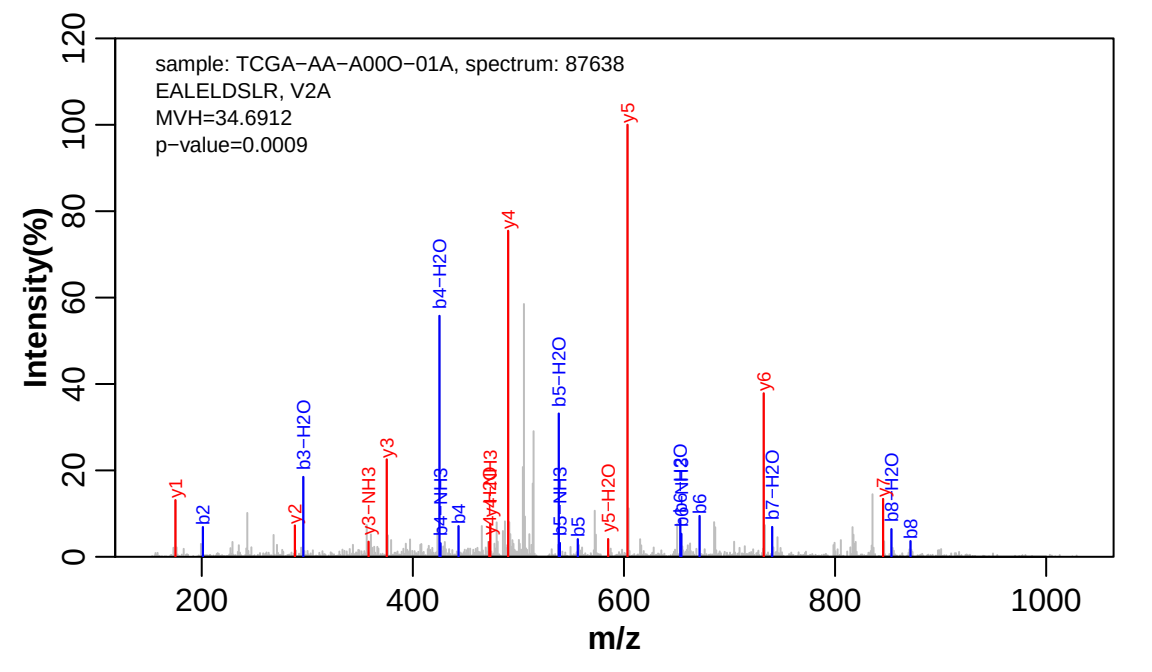

sample: TCGA−AA−A00O−01A, spectrum: 123853
DGYGFLNR, N1D
MVH=46.2273
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y2
y4
b5
b5−H2O
b5−NH3
b3
b4−H2O
b4−NH3
b4
b6−H2O
b6
y6
b7
b2
y1

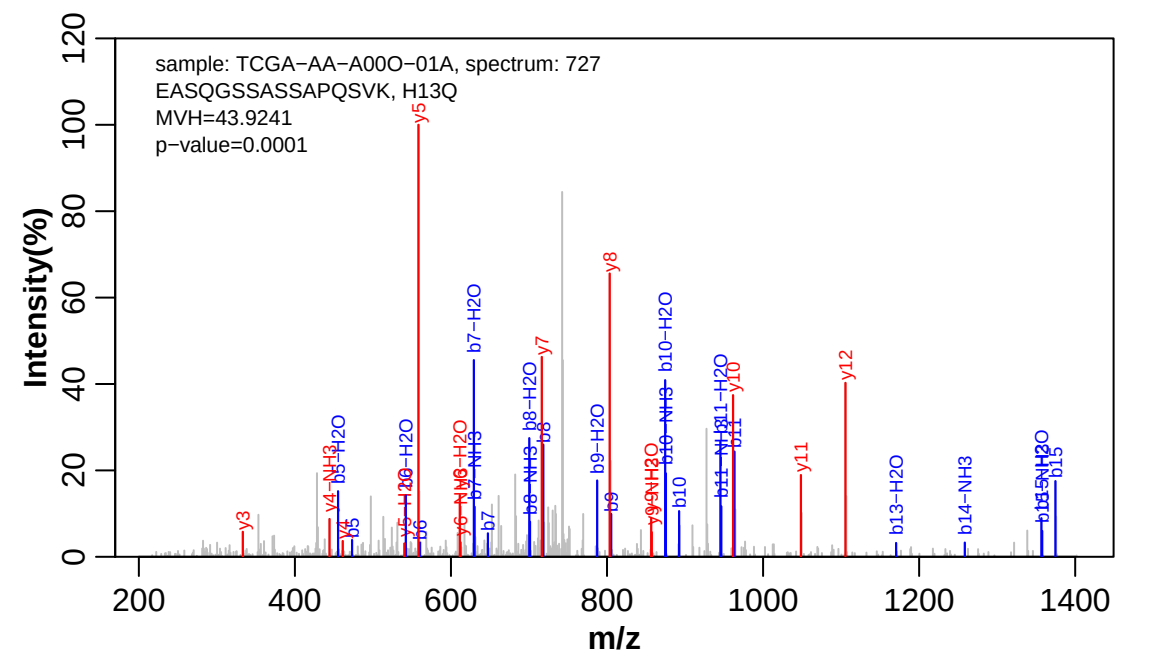

sample: TCGA−AA−A00O−01A, spectrum: 37940
DSMFGLTVK, A7T
MVH=43.4999
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3
y4
b4−H2O
b4
y5
b5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8

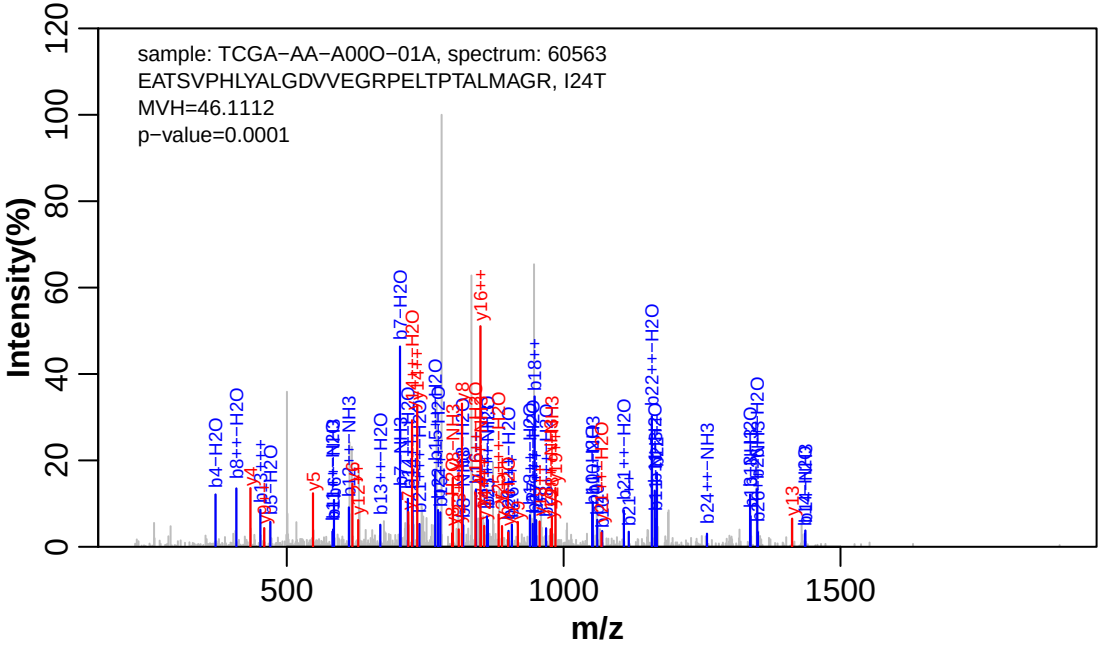

sample: TCGA−AA−A00O−01A, spectrum: 23384
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=64.8895
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y9−H2O
y14−NH3
b16
b25++−H2O
b12
b12++
b7+++
y7+++−H2O

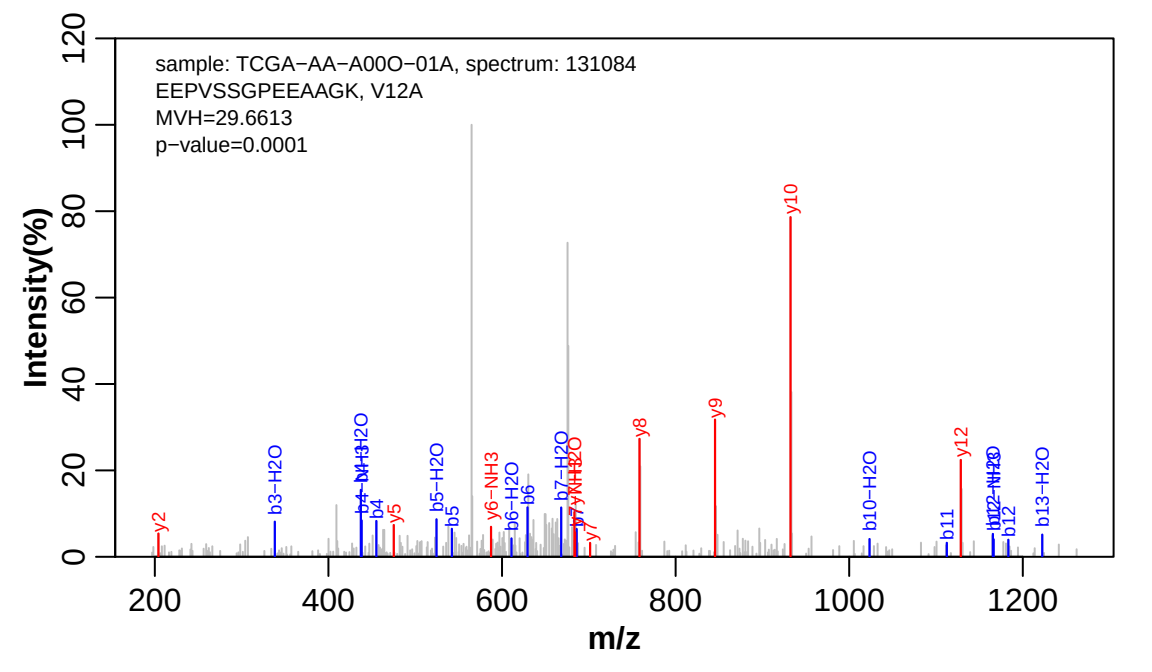

sample: TCGA−AA−A00O−01A, spectrum: 35086
DTEEEDFHVDQATTVK, V12A
MVH=57.3193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y7
y8
b8
b9
y10
y6
b10
y11
b11
b12
b3−H2O
y3
y4−H2O
b4
y5−H2O
y5
b5−H2O
b5
b6
y7−H2O
b7−H2O
b7
b9−H2O
b10−NH3
y11−NH3
y12−NH3
b15

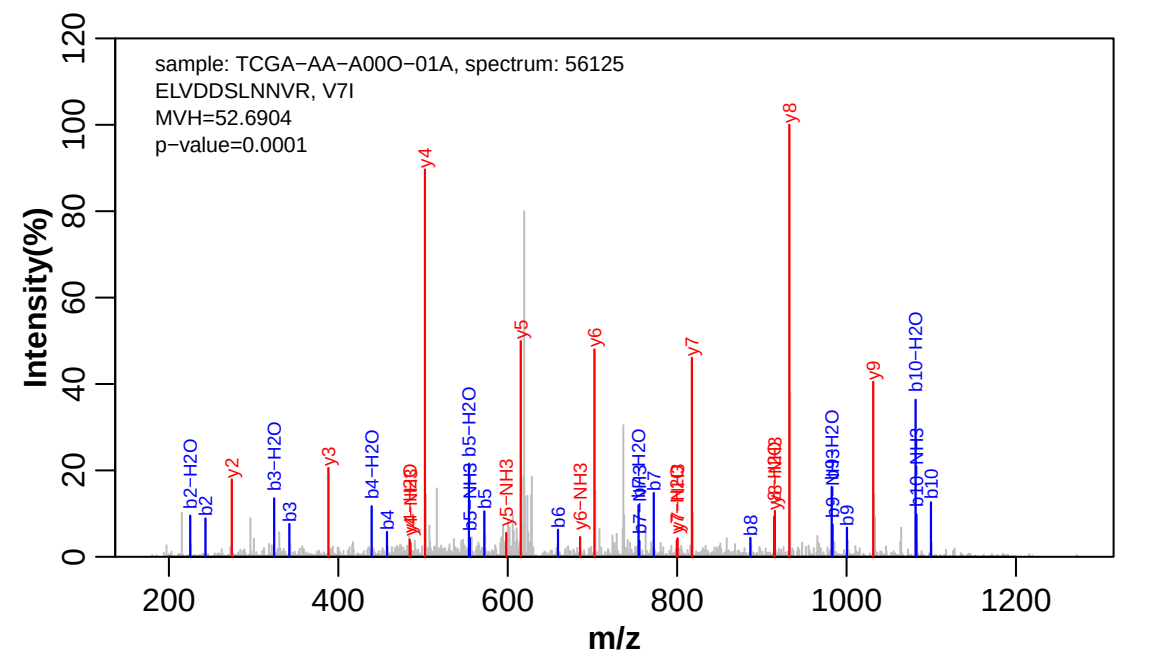

sample: TCGA−AA−A00O−01A, spectrum: 48082
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=23.5520
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
y6
b19++−H2O
b10−H2O

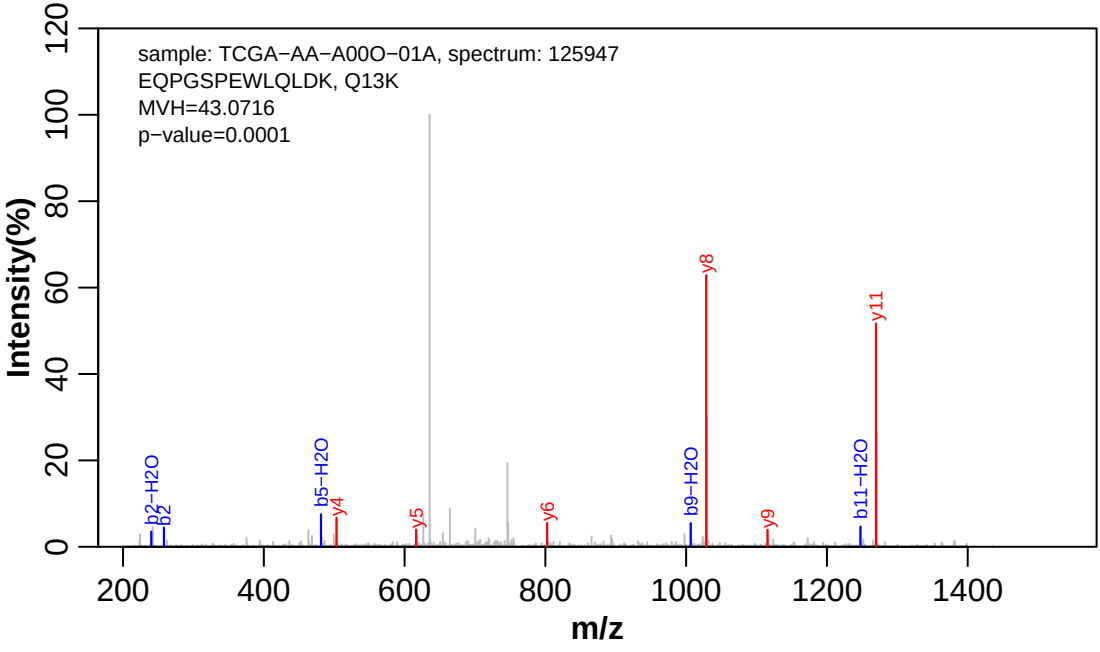

sample: TCGA−AA−A00O−01A, spectrum: 87638
EALELDSLR, V2A
MVH=34.6912
p−value=0.0009
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3−H2O
y2
y3−NH3
y3
b4−NH3
b4
b4−H2O
y4−H2O−NH3
y4
b5−NH3
b5
b5−H2O
y5−H2O
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
b8−NH3
b8−H2O
y7
b8

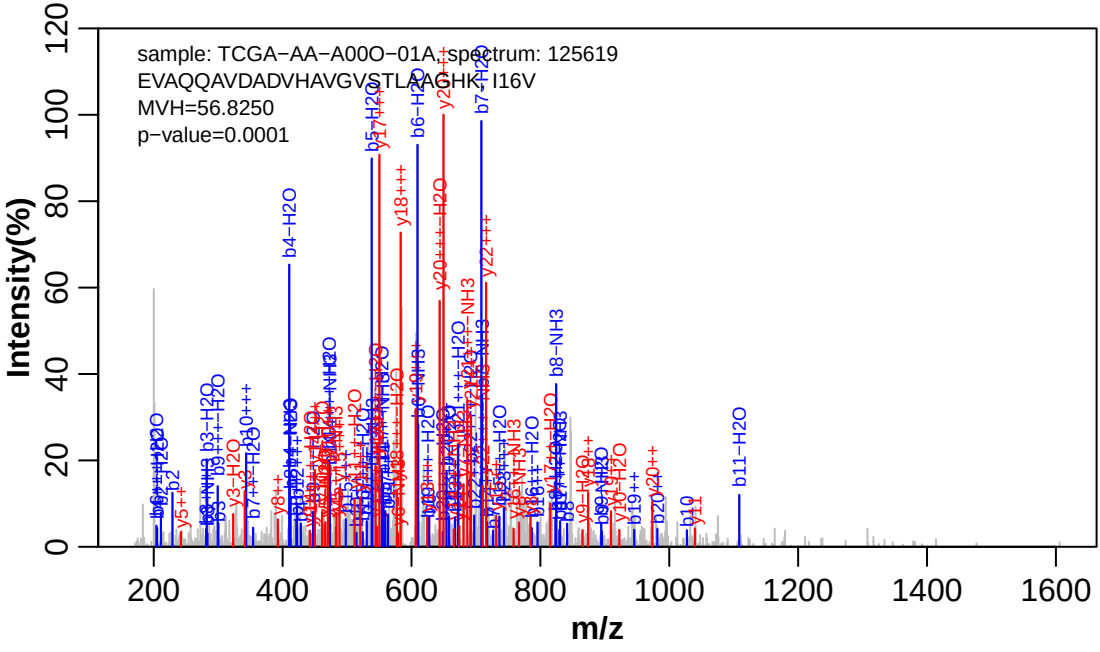

sample: TCGA−AA−A00O−01A, spectrum: 727
EASQGSSASSAPQSVK, H13Q
MVH=43.9241
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y7
y12
y10
y11
y3
b7−H2O
b8−H2O
b9−H2O
b10−NH3
b10−H2O
b11−H2O
b13−H2O
b14−NH3
b15−H2O
b15−NH3
y4−NH3
b5−H2O
y5−H2O
y6−NH3
y6−H2O
b7−NH3
b8−NH3
y9−NH3
b11−NH3
y4
b5
y5
b6
y6
b7
b8
b9
b10
b11
b15

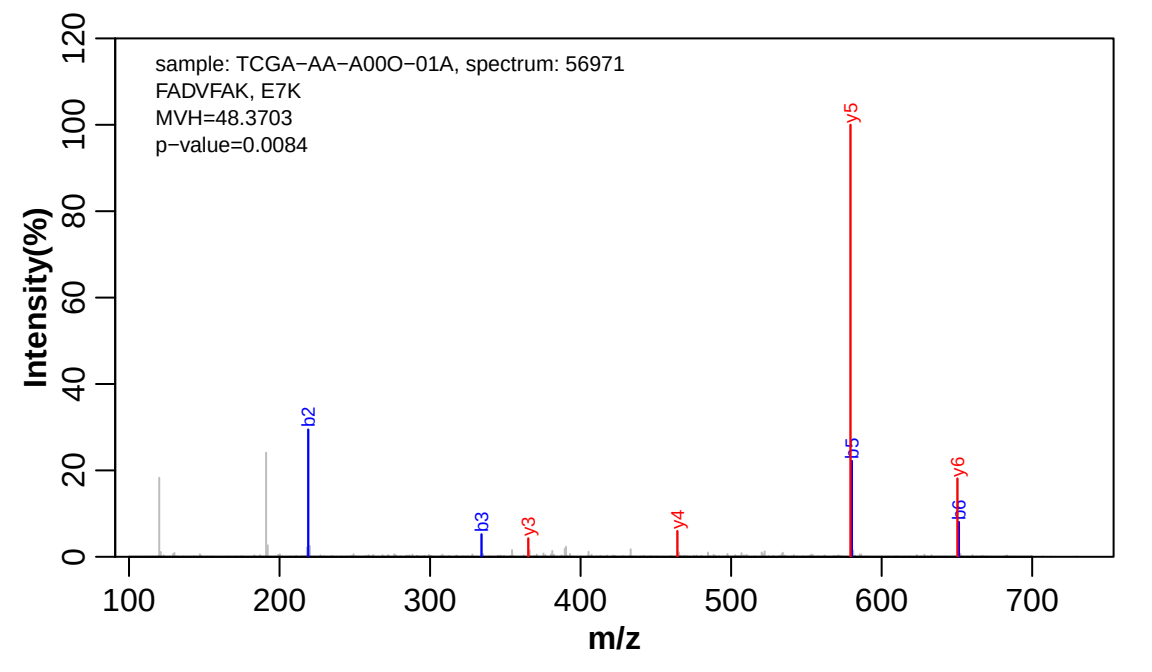

sample: TCGA−AA−A00O−01A, spectrum: 60563
EATSVPHLYALGDVVEGRPELTPTALMAGR, I24T
MVH=46.1112
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b8++−H2O
y4
y5
b13++−NH3
b13++−H2O
b7−H2O
y16++
b18++
b24++−NH3
y13

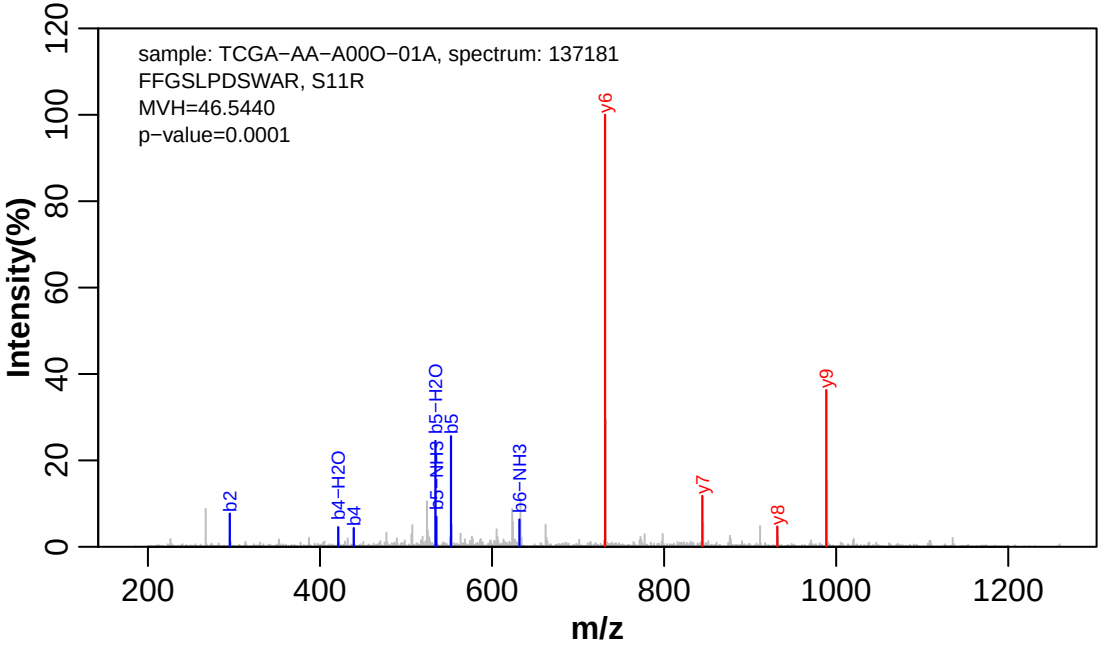

sample: TCGA−AA−A00O−01A, spectrum: 131084
EEPVSSGPEEAAGK, V12A
MVH=29.6613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b4−NH3
b4−H2O
b4
y5
b5−H2O
b5
y6−NH3
b6−H2O
b6
b7−H2O
y7−NH3
y7−H2O
y7
y8
y9
y10
b10−H2O
b11
y12
b12−NH3
b12−H2O
b12
b13−H2O

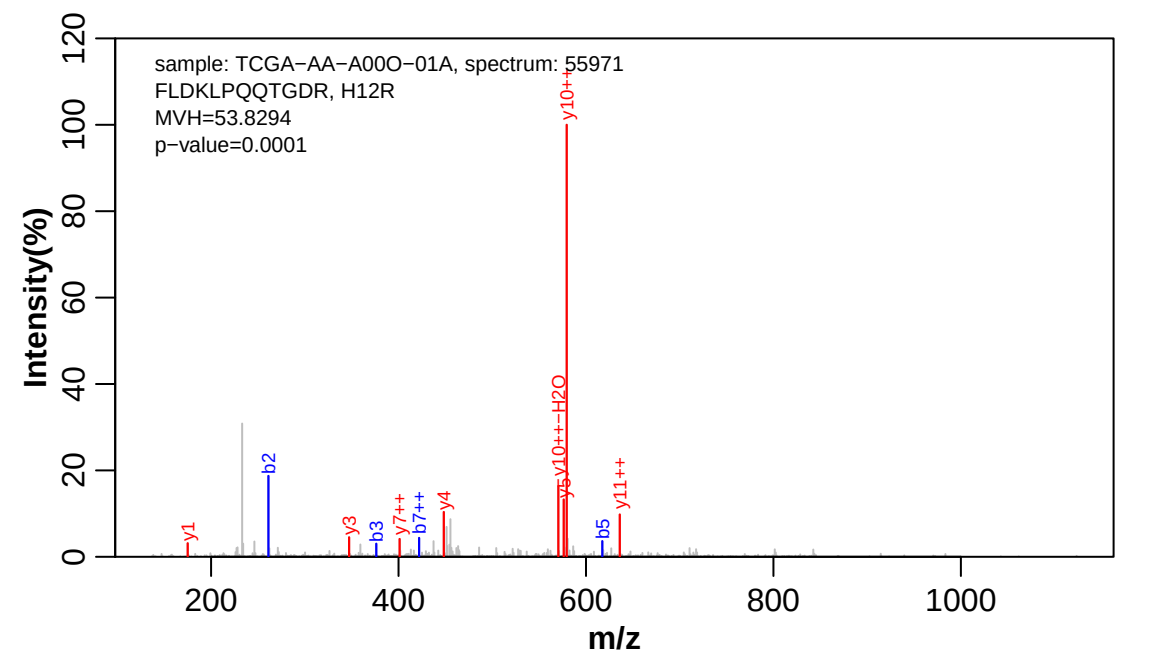

sample: TCGA−AA−A00O−01A, spectrum: 56125
ELVDDSLNNVR, V7I
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y4
y8
y5
y6
y7
y9
y2
y3
b10−H2O
b2−H2O
b3−H2O
b4−H2O
b5−NH3
b5−H2O
b10−NH3
b2
b3
b4
b5
y5−NH3
b6
y6−NH3
b7
b8
b9
b10

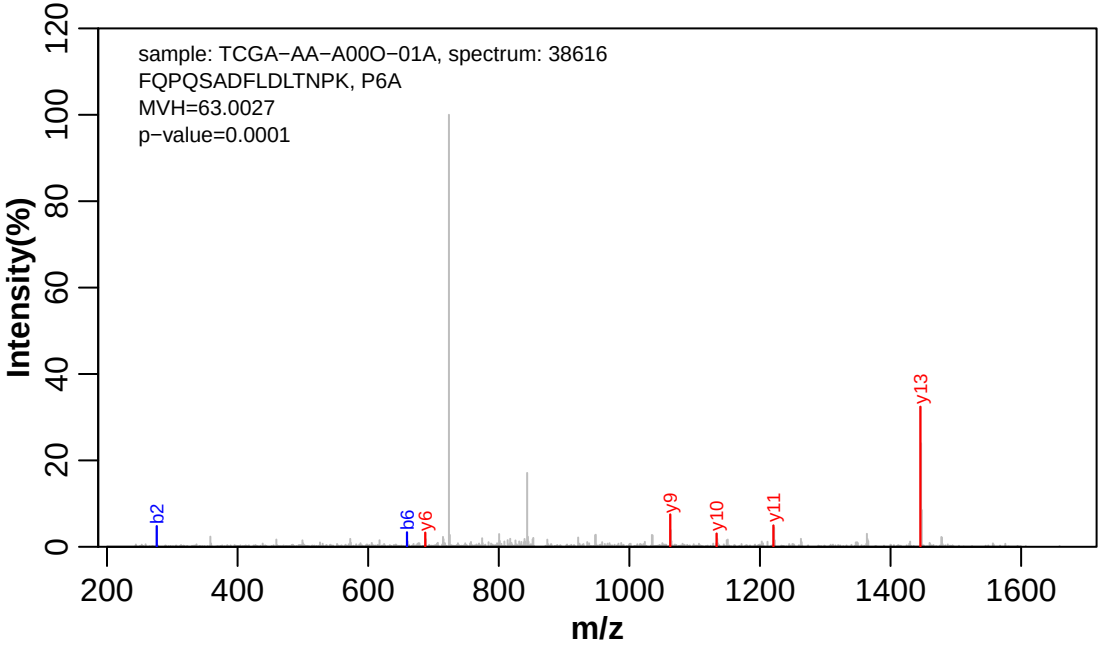

sample: TCGA−AA−A00O−01A, spectrum: 125947
EQPGSPEWLQLDK, Q13K
MVH=43.0716
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2−H2O
b2
b5−H2O
y4
y5
y6
b9−H2O
y8
y9
b11−H2O
y11

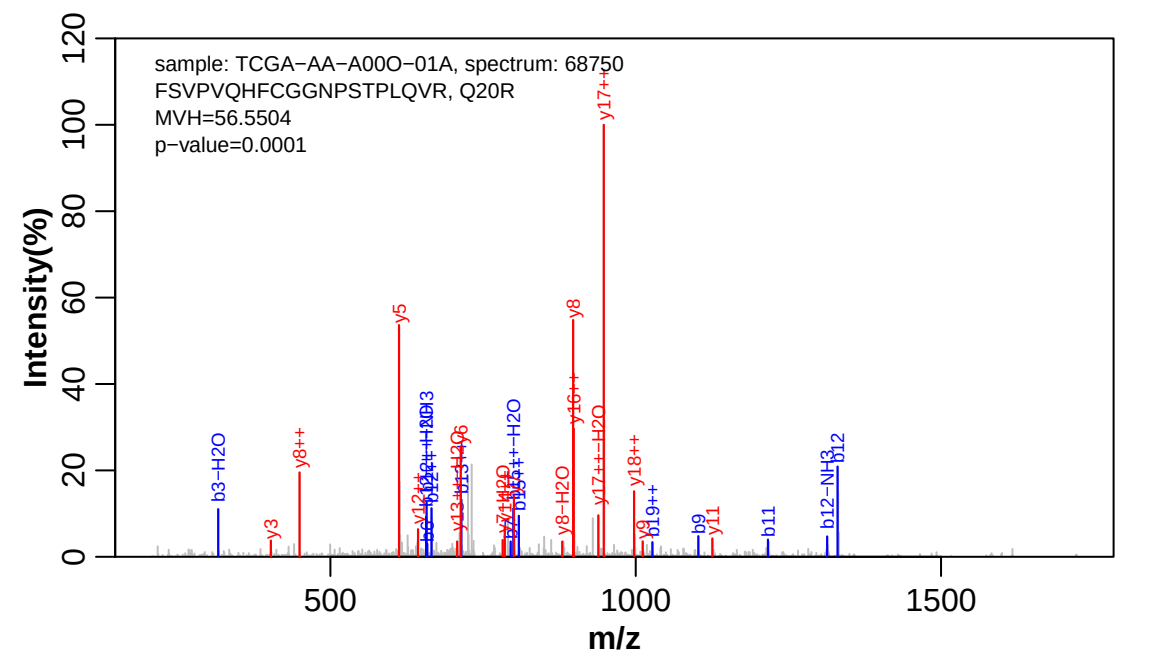

sample: TCGA−AA−A00O−01A, spectrum: 125619
EVAQQAVDADVHAVGVSTLAAGHK, I16V
MVH=56.8250
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4−H2O
b6−H2O
b7−H2O
y17++
y18+++
y20+++−H2O
y22+++
b8−NH3
b11−H2O
y5++
b2
y8++
y3−H2O
b10+++
b5−H2O
b3−H2O
y9−H2O
y10−H2O
b19++
b20++
b10
y11

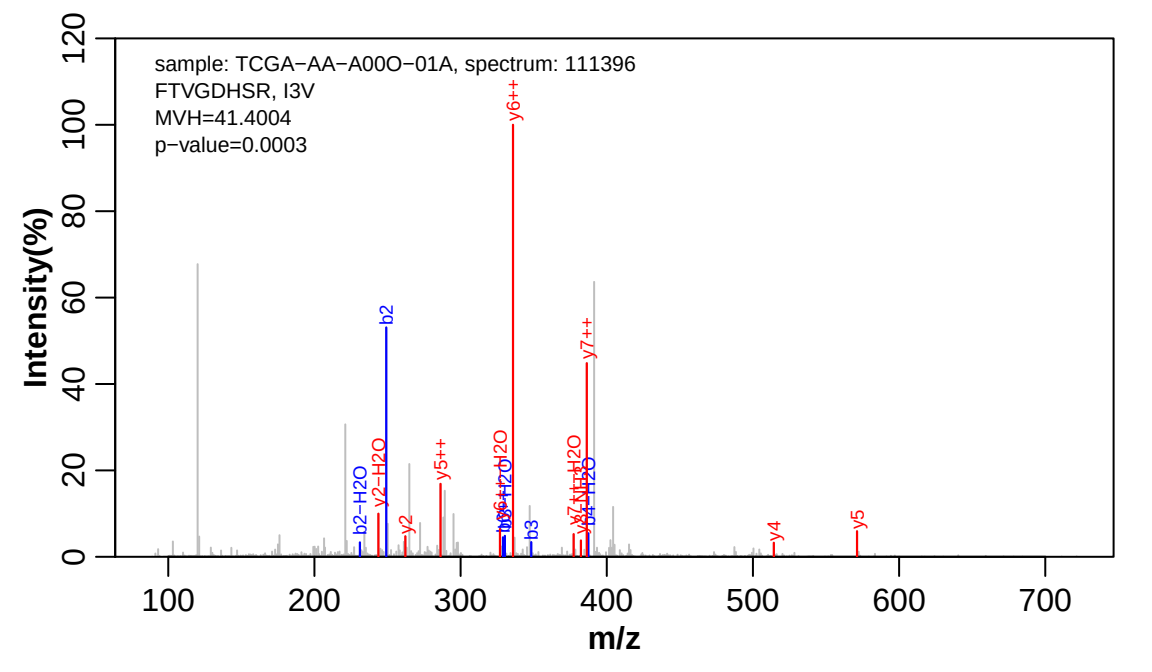

sample: TCGA−AA−A00O−01A, spectrum: 56971
FADVFAK, E7K
MVH=48.3703
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
b2
b3
y3
y4
y5
b5
b6
y6

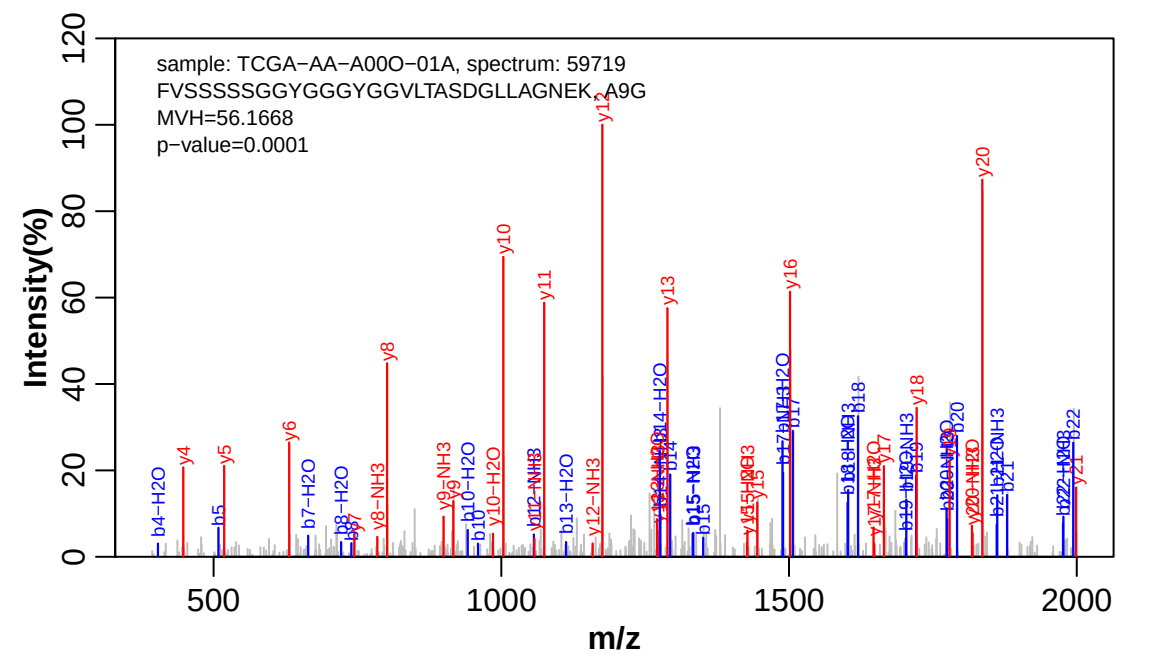

sample: TCGA−AA−A00O−01A, spectrum: 137181
FFGSLPDSWAR, S11R
MVH=46.5440
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

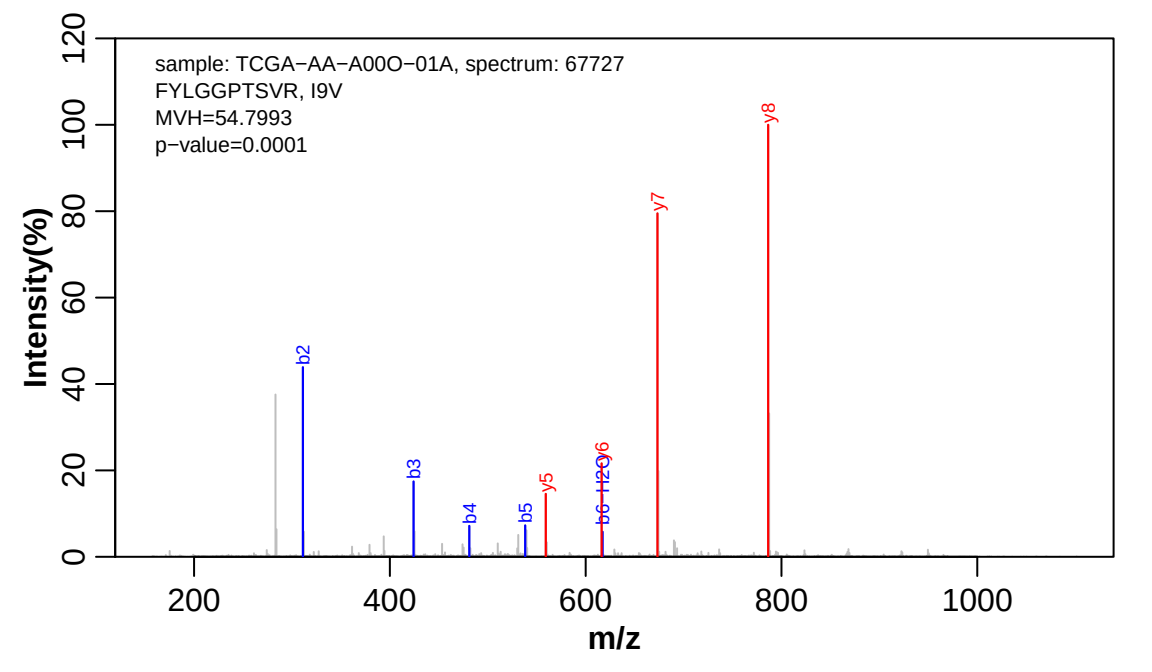

sample: TCGA−AA−A00O−01A, spectrum: 55971
FLDKLPQQTGDR, H12R
MVH=53.8294
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y5
y11++
y7++
b7++
y4
b2
y1
y3
b3
b5
0
20
40
60
80
100
120
200
400
600
800
1000

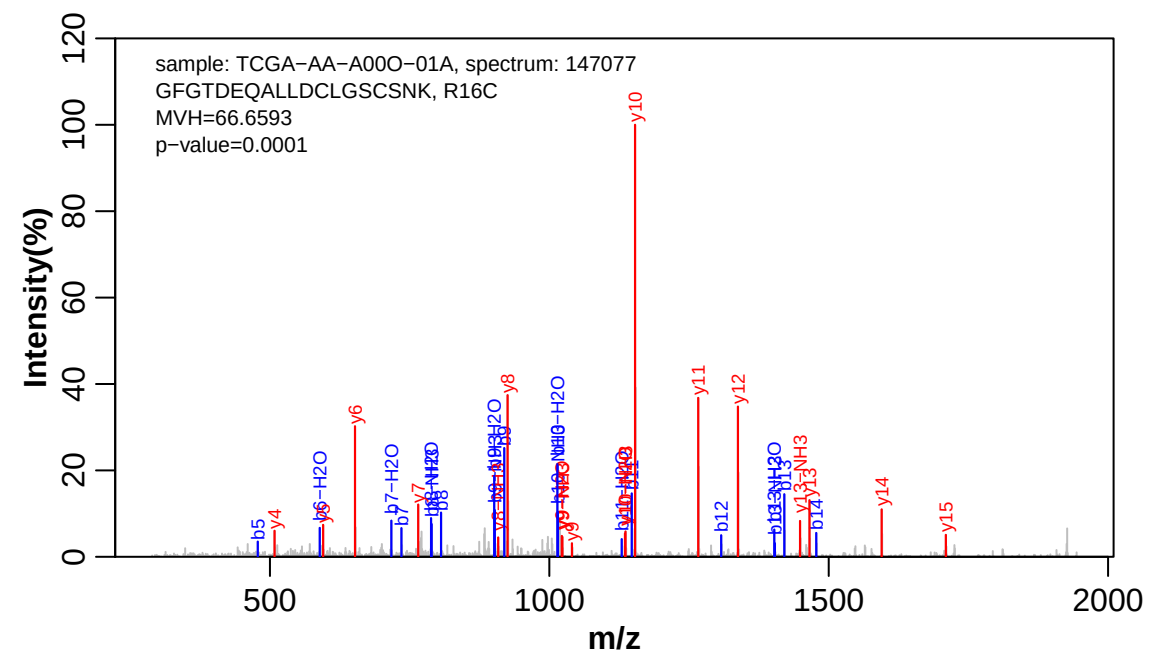

sample: TCGA−AA−A00O−01A, spectrum: 38616
FQPQSADFLDLTNPK, P6A
MVH=63.0027
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
b2
b6
y6
y9
y10
y11
y13

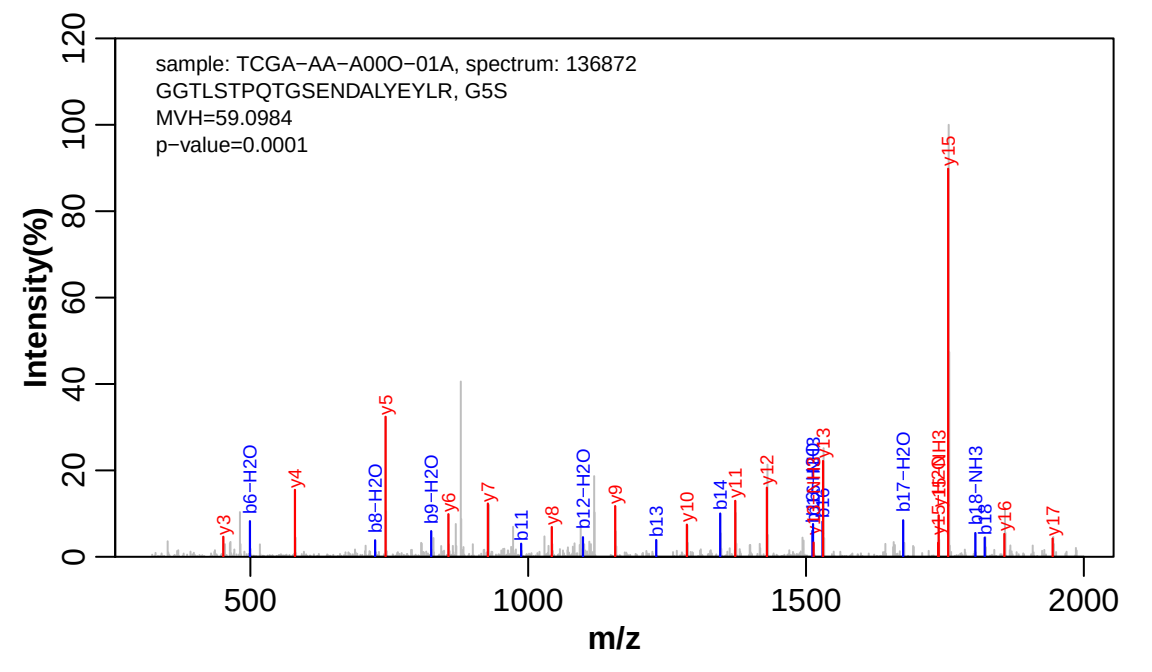

sample: TCGA−AA−A00O−01A, spectrum: 68750
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=56.5504
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y5
y8
y16++
y8++
b3−H2O
y3
y8++
y17++−H2O
y18++
y8−H2O
y19++
b9
y11
b11
b12−NH3
b12

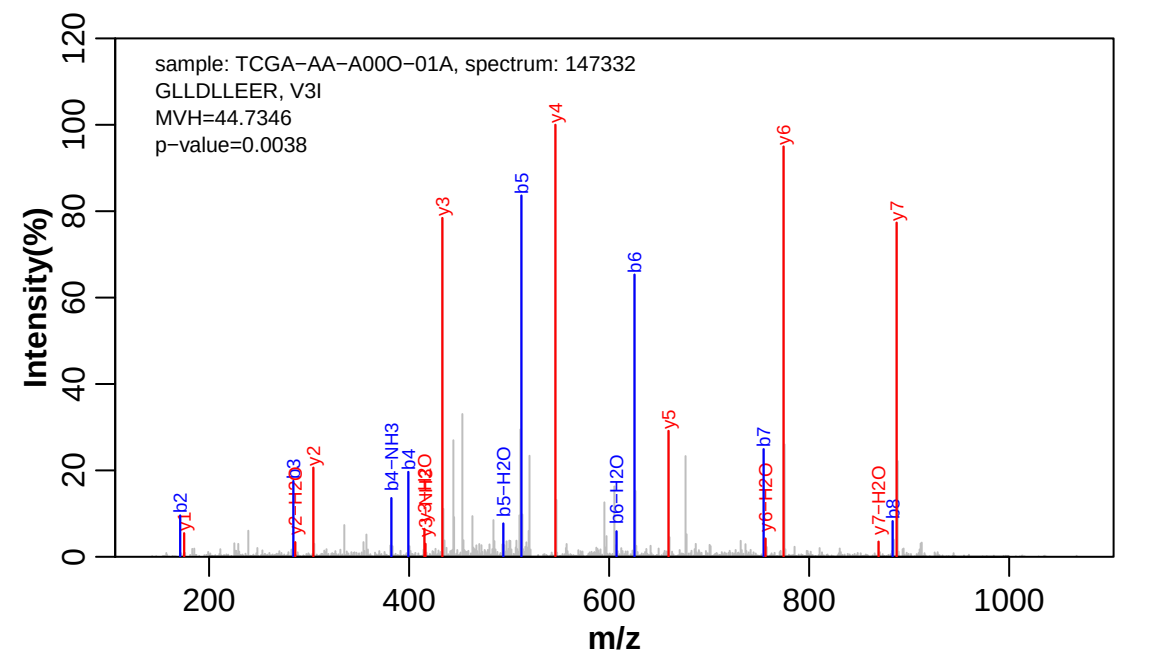

sample: TCGA−AA−A00O−01A, spectrum: 111396
FTVGDHSR, I3V
MVH=41.4004
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
b2
y6++
y7++
y5++
b2−H2O
y2−H2O
y2
b3
y4
y5

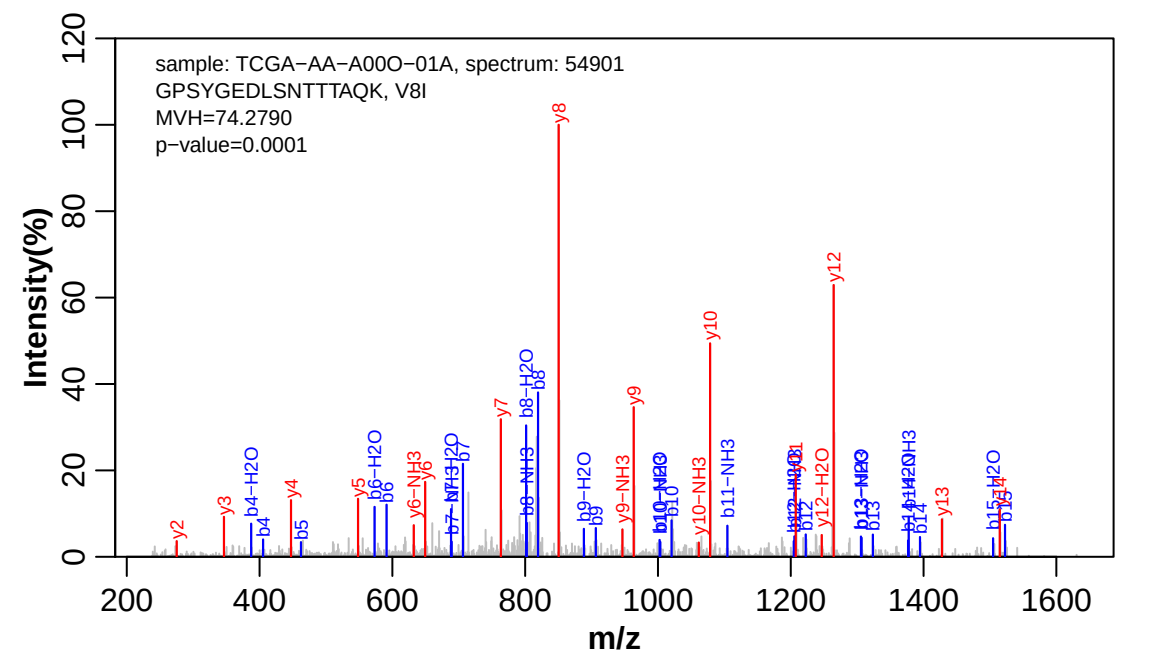

sample: TCGA−AA−A00O−01A, spectrum: 59719
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=56.1668
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y4
b5
y5
y6
b7−H2O
b8−H2O
b7
y8−NH3
y8
y9−NH3
y9
b10−H2O
b10
y10−H2O
y10
b12−NH3
y11
b13−H2O
y12−NH3
y12
b14
b15−NH3
b15
y13
y15
b17
b17−H2O
y16
b18
b18−NH3
y17
y18
b19
b20
y20
b21
b21−NH3
b22
y21

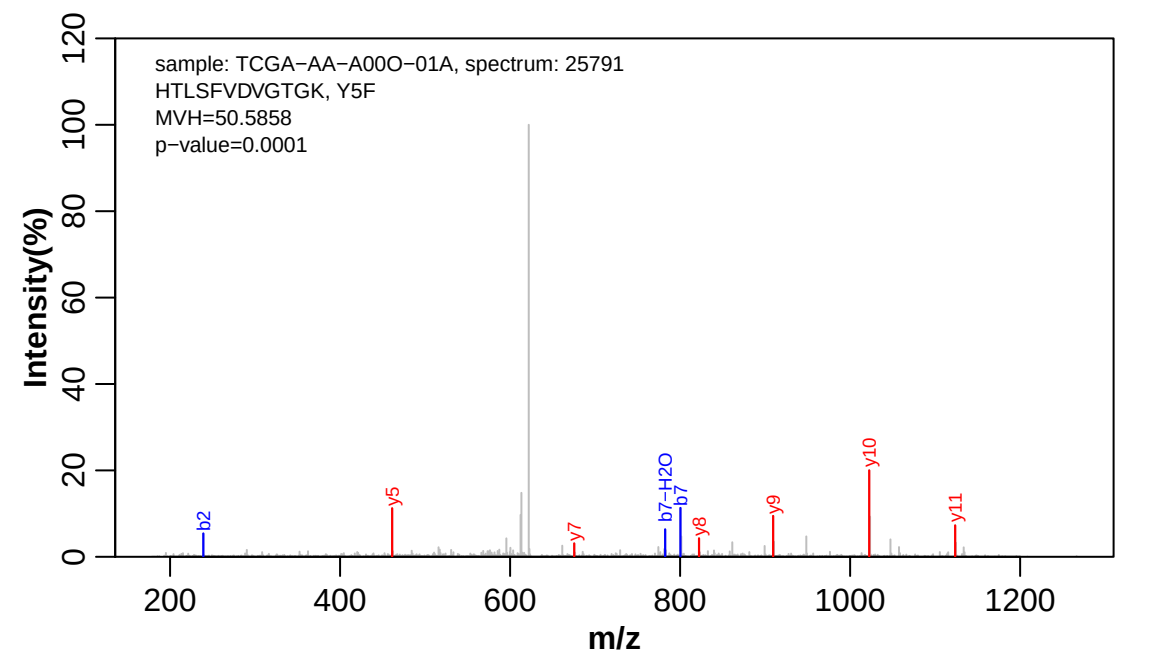

sample: TCGA−AA−A00O−01A, spectrum: 67727
FYLGGPTSVR, I9V
MVH=54.7993
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

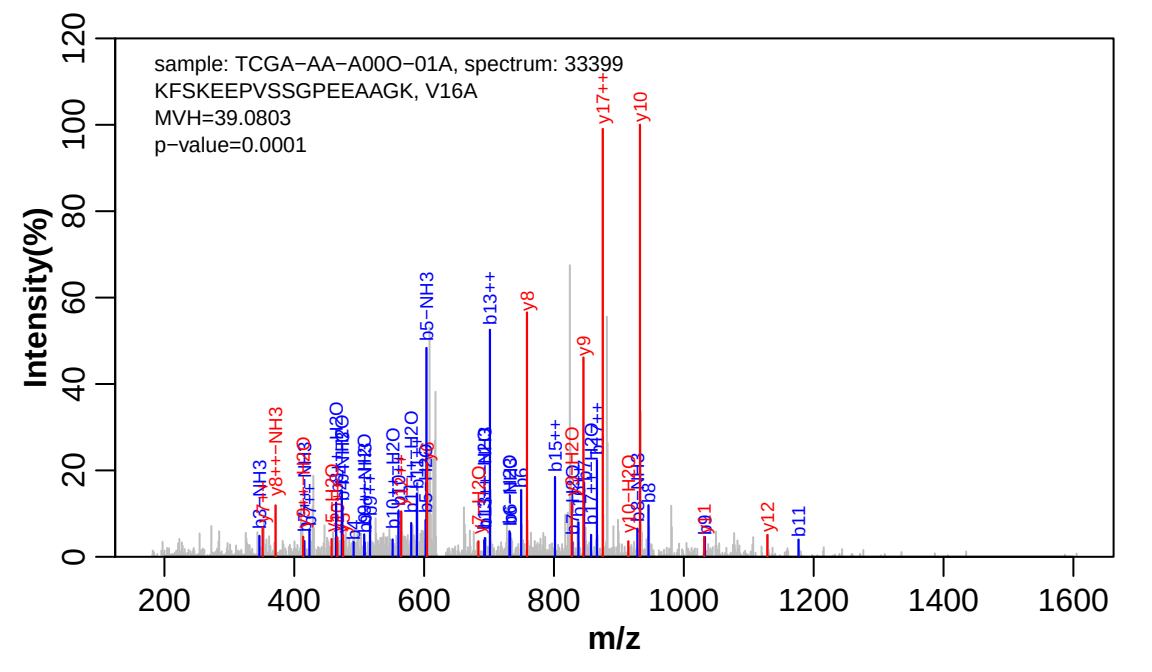

sample: TCGA−AA−A00O−01A, spectrum: 147077
GFGTDEQALLDCLGSCSNK, R16C
MVH=66.6593
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y8
y6
y14
y15
y4
b5
b7−H2O
b12
b14
y13−NH3

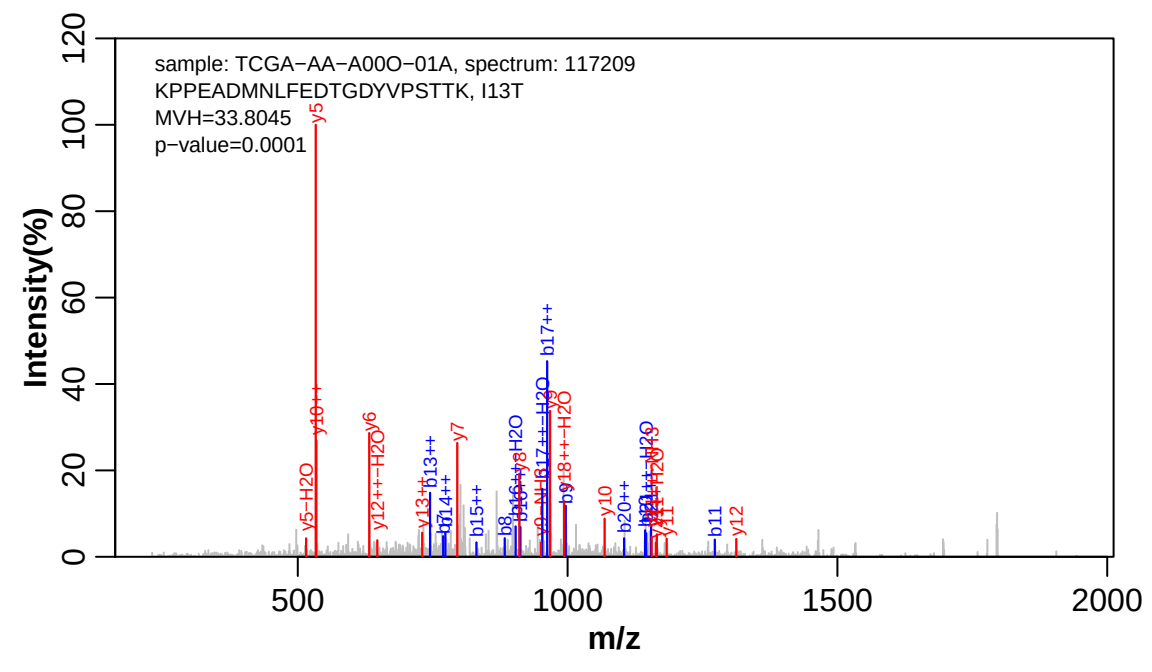

sample: TCGA−AA−A00O−01A, spectrum: 136872
GGTLSTPQTGSENDALYEYLR, G5S
MVH=59.0984
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y3
b6−H2O
y4
y5
b8−H2O
b9−H2O
y6
y7
b11
y8
b12−H2O
y9
b13
y10
b14
y11
y12
y13
b17−H2O
y15
b18−NH3
y16
y17

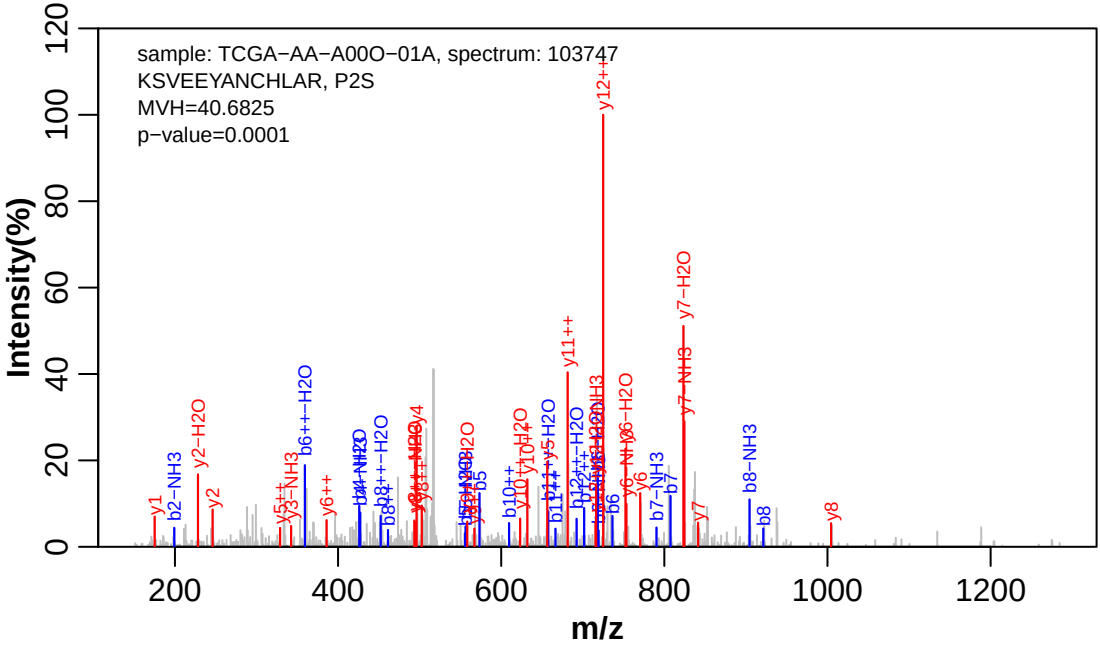

sample: TCGA−AA−A00O−01A, spectrum: 147332
GLLDLLEER, V3I
MVH=44.7346
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2−H2O
y3
y2
b4−NH3
b4
y3−NH3
y3−H2O
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−H2O
b7
y6
y7−H2O
b8
y7

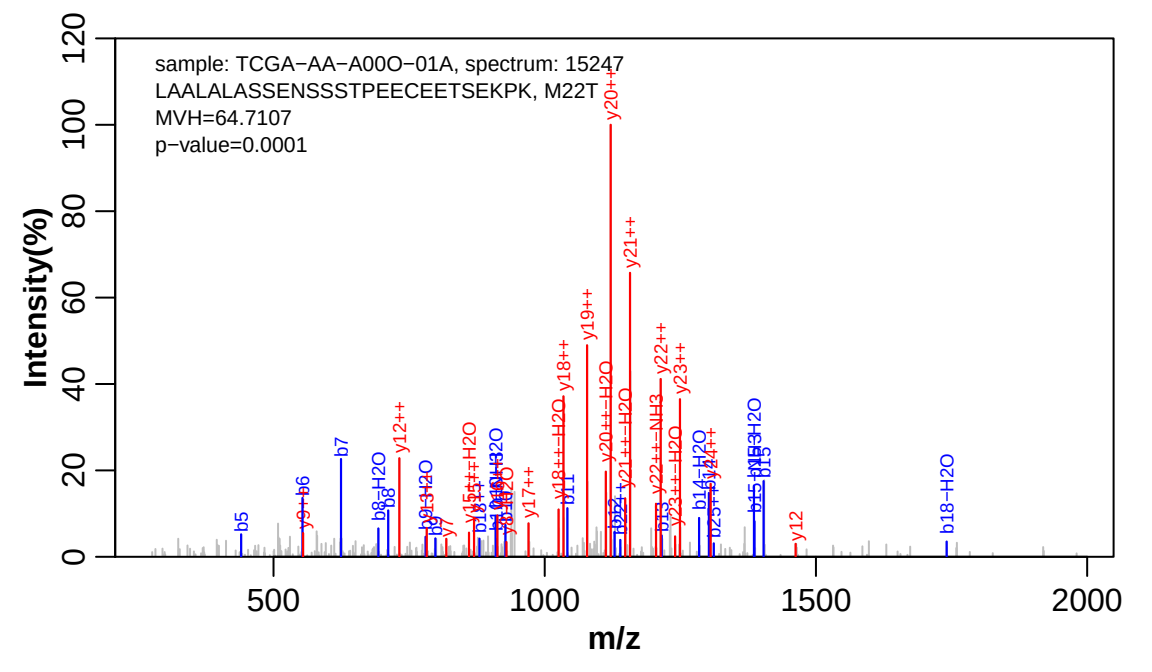

sample: TCGA−AA−A00O−01A, spectrum: 54901
GPSYGEDLSNTTTAQK, V8I
MVH=74.2790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y12
y10
y9
y7
y13
y2
y3
y4
y5
y6
b4−H2O
b6−H2O
b8−H2O
b8−NH3
b9−H2O
y9−NH3
y10−NH3
b11−NH3
y12−H2O
b15−H2O

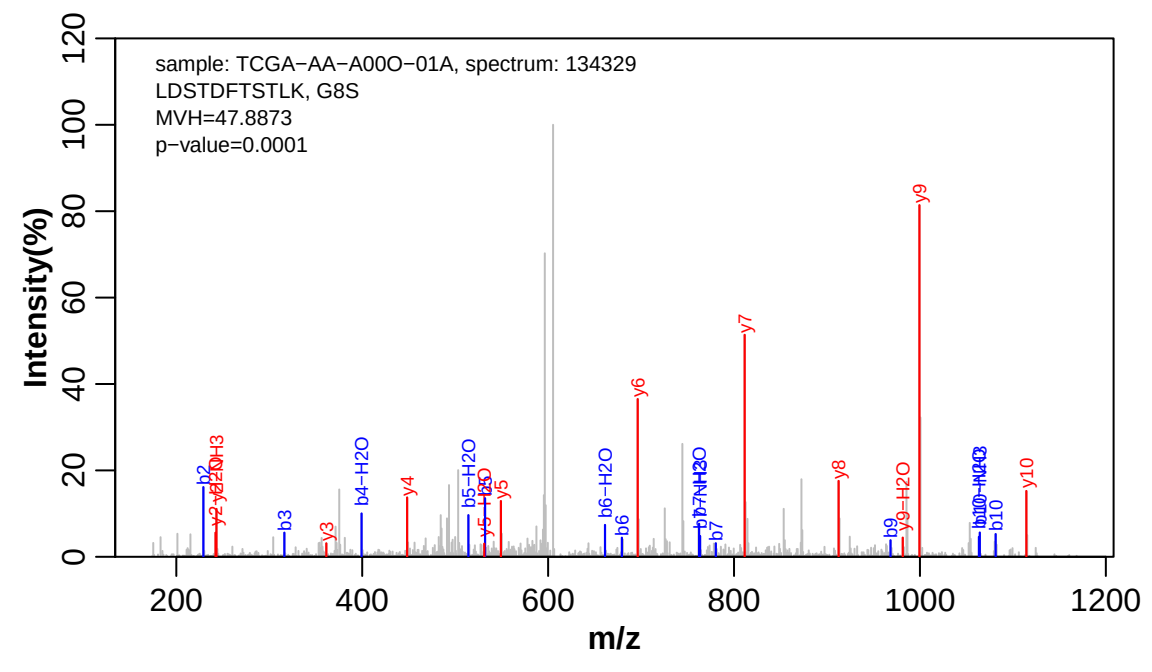

sample: TCGA−AA−A00O−01A, spectrum: 25791
HTLSFVDVGTGK, Y5F
MVH=50.5858
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y5
y7
b7−H2O
b7
y8
y9
y10
y11

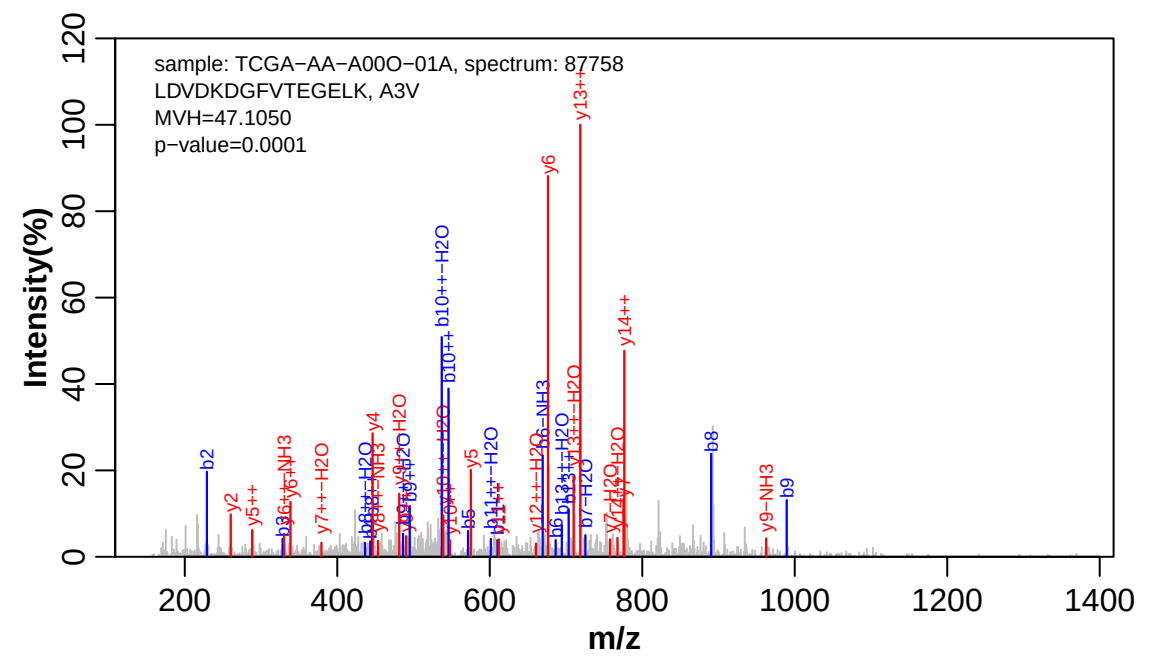

sample: TCGA−AA−A00O−01A, spectrum: 33399
KFSKEEPVSSGPEEAAGK, V16A
MVH=39.0803
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y17++
y10
b5−NH3
b13++
y8
y9
b15++
y10−H2O
y10−NH3
b8
y12
b11

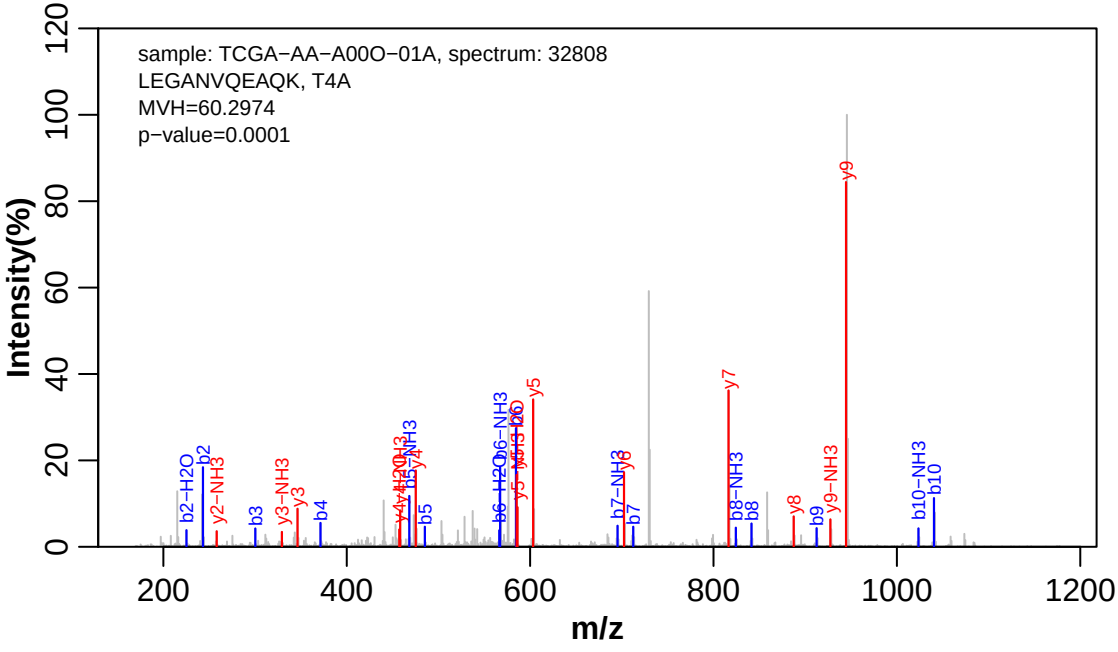

sample: TCGA−AA−A00O−01A, spectrum: 117209
KPPEADMNLFEDTGDYVPSTTK, I13T
MVH=33.8045
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
y10++
y5−H2O
y12++−H2O
y6
y13++
b13++
b14++
y7
b15++
b8
b16++−H2O
b16++
y9−NH3
b17++−H2O
y9
b17++
b18++−H2O
y10
b20++
y11−H2O
y11
b11
y12

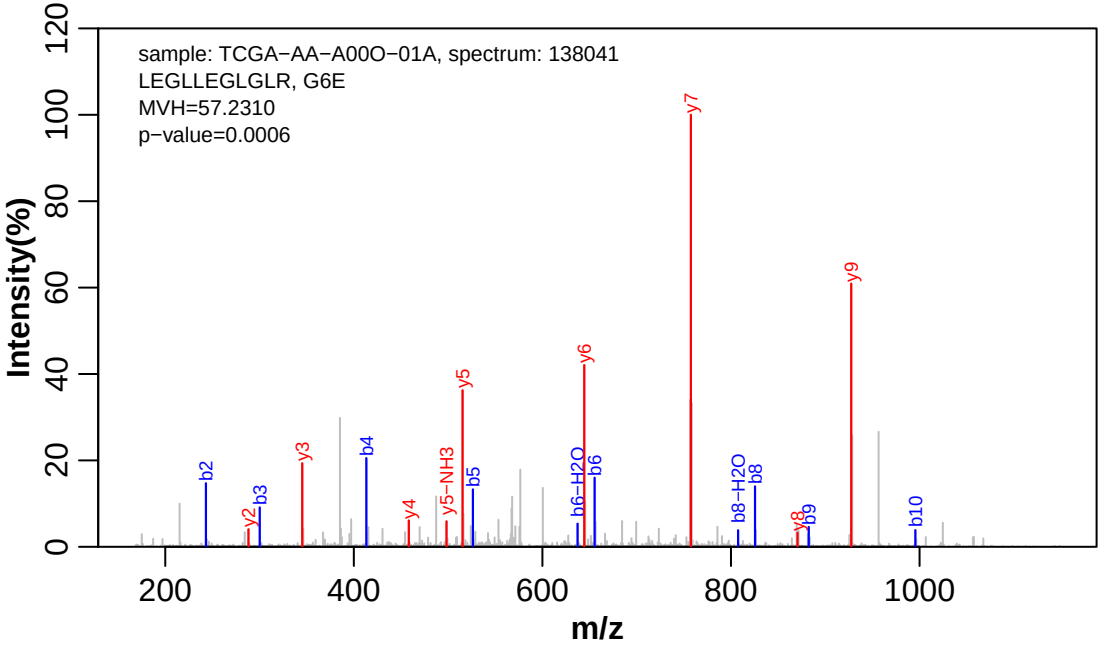

sample: TCGA−AA−A00O−01A, spectrum: 103747
KSVEEYANCHLAR, P2S
MVH=40.6825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2−NH3
y2−H2O
y2
y5++
y3−NH3
b6++−H2O
y6++
b4−NH3
b4−H2O
b8++−H2O
b5
b10++
y10++−H2O
y11++
b11++−H2O
b12++−H2O
b6
y6−NH3
y6−H2O
y6
b7−NH3
b7
y12++
y7−H2O
y7−NH3
y7
b8−NH3
b8
y8

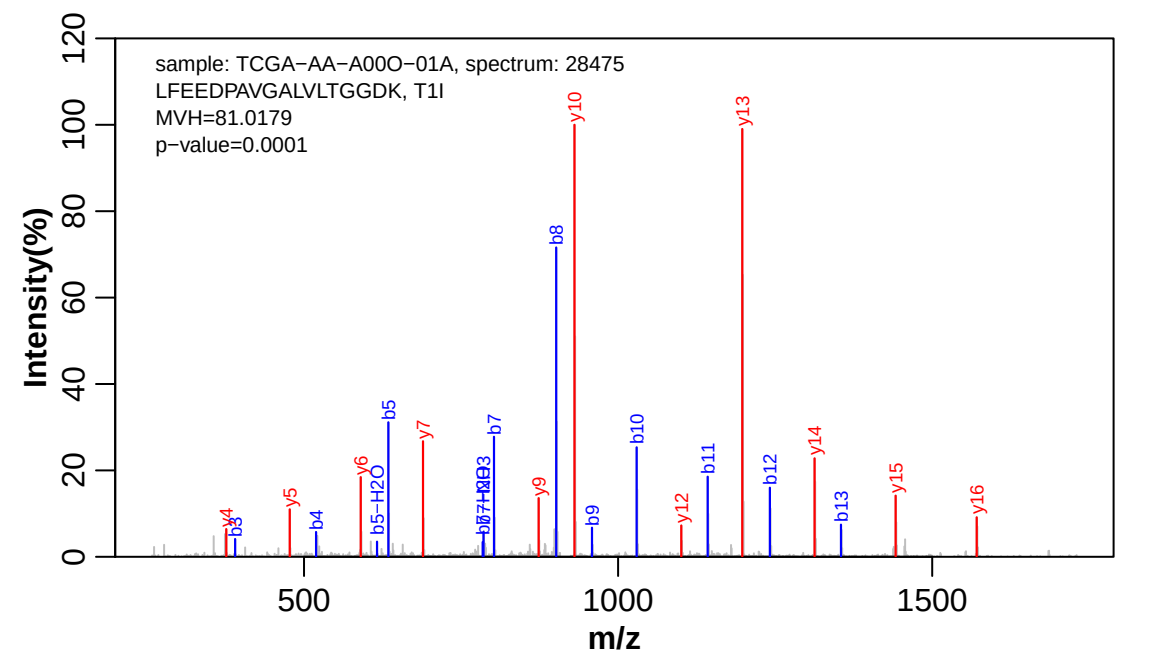

sample: TCGA−AA−A00O−01A, spectrum: 15247
LAALALASSENSSSTPEECEETSEKPK, M22T
MVH=64.7107
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y20++
y21++
b7
y12++
y19++
y18++
y18++−H2O
y20++−H2O
y21++−H2O
y22++
y23++
y22++−NH3
y23++−H2O
b5
y9−b6
b8−H2O
b8
y7
y17++
b18−H2O
y12

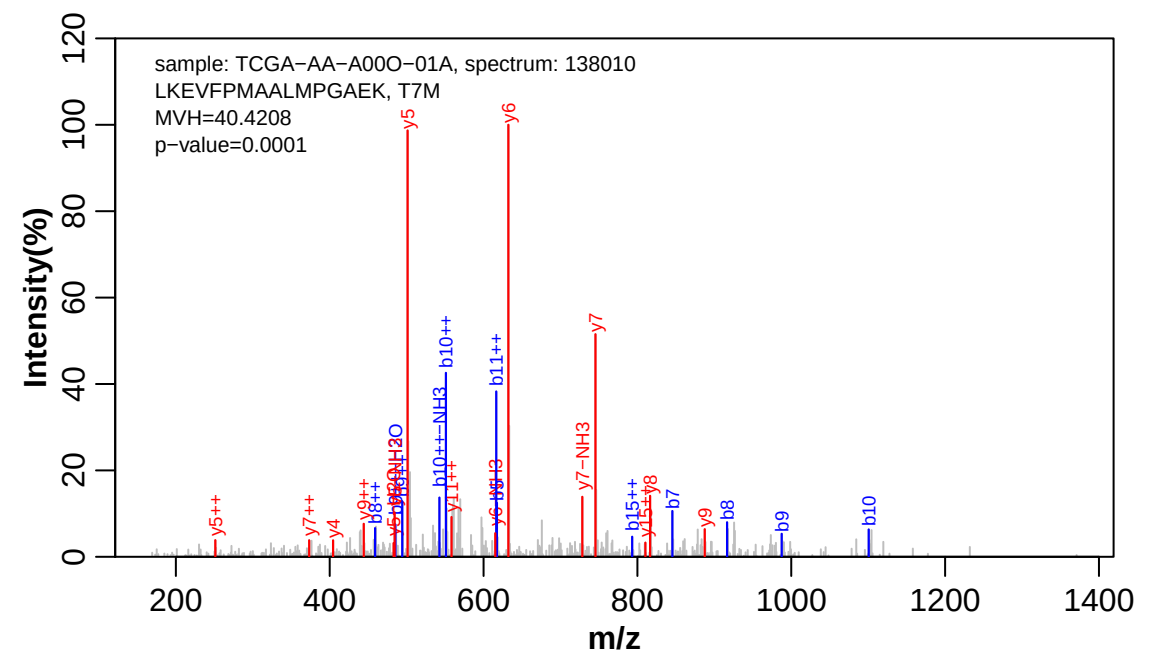

sample: TCGA−AA−A00O−01A, spectrum: 134329
LDSTDFTSTLK, G8S
MVH=47.8873
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b4−H2O
y4
b5−H2O
y5
b6−H2O
b6
y6
b7
y7
y8
b9
y9−H2O
y9
b10
y10

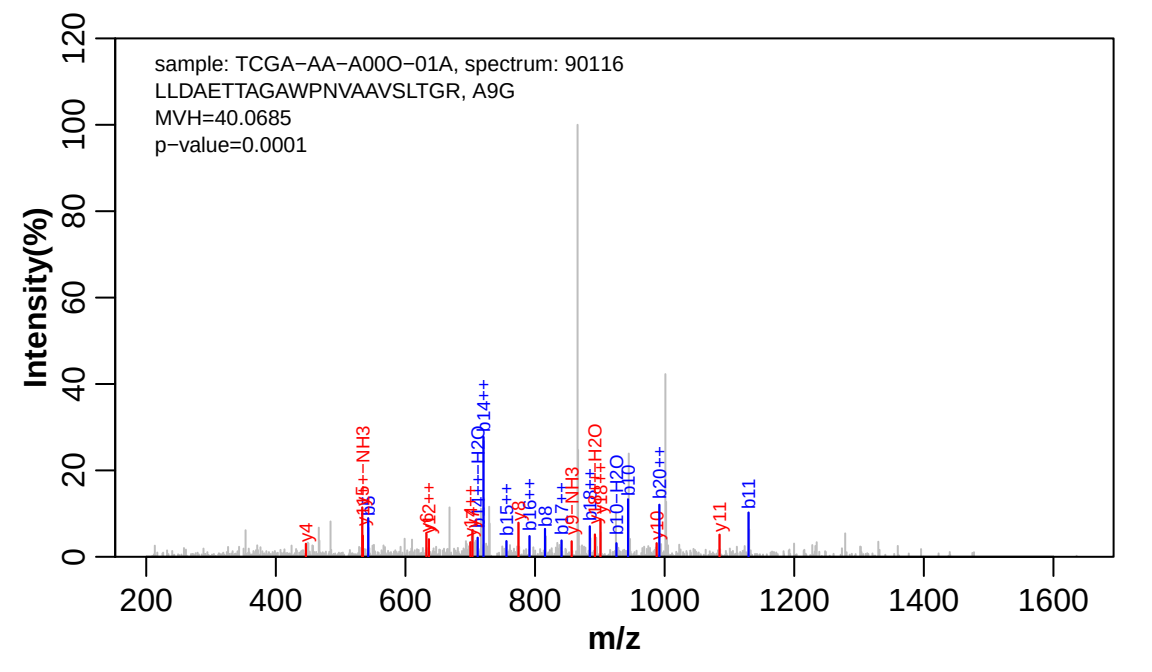

sample: TCGA−AA−A00O−01A, spectrum: 87758
LDVDKDGFVTEGELK, A3V
MVH=47.1050
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y5++
b6++−NH3
y6++−NH3
y7++−H2O
b8++−H2O
b8++−NH3
y4
y8++−NH3
y8++−H2O
b9++−H2O
y10++−H2O
b10++
b10++−H2O
y5
b11++−H2O
b5
y12++−H2O
y12++−NH3
b6
b13++−H2O
y13++−H2O
b7−H2O
y6
y13++
y14++
y7++−H2O
b8
y9−NH3
b9

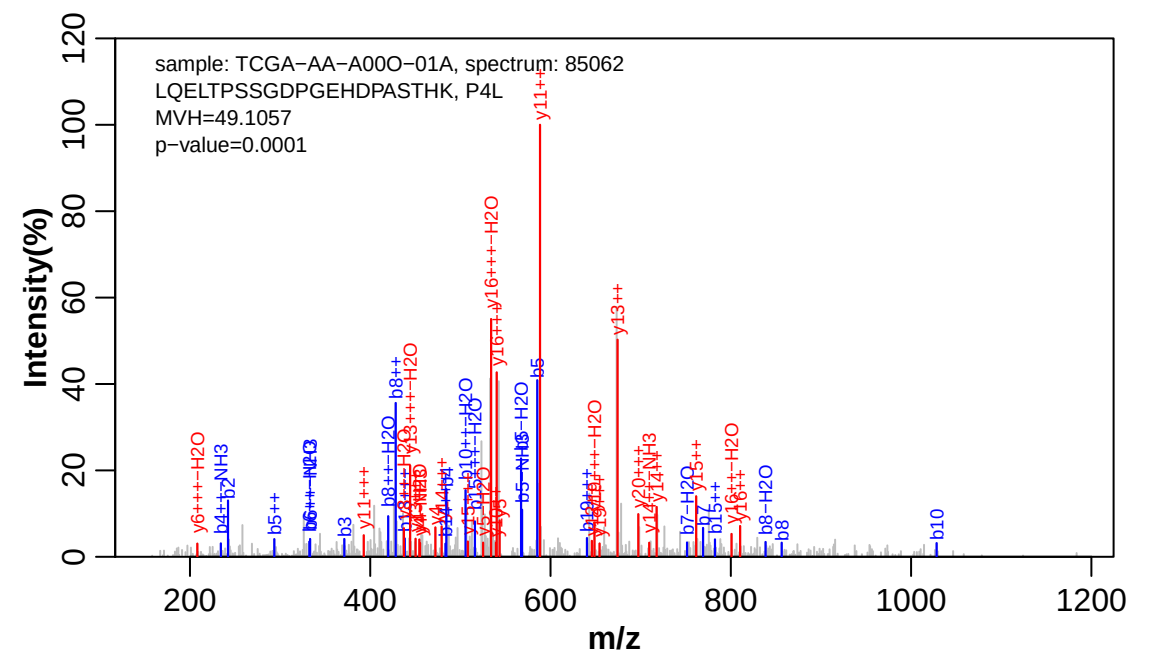

sample: TCGA−AA−A00O−01A, spectrum: 32808
LEGANVQEAQK, T4A
MVH=60.2974
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2−NH3
b3
y3−NH3
y3
b4
b5−NH3
y4
b5
b6−H2O−NH3
b6−H2O
y5−NH3
y5−H2O
y5
b7−NH3
y6
b7
y7
b8−NH3
b8
y8
b9
y9−NH3
y9
b10−NH3
b10

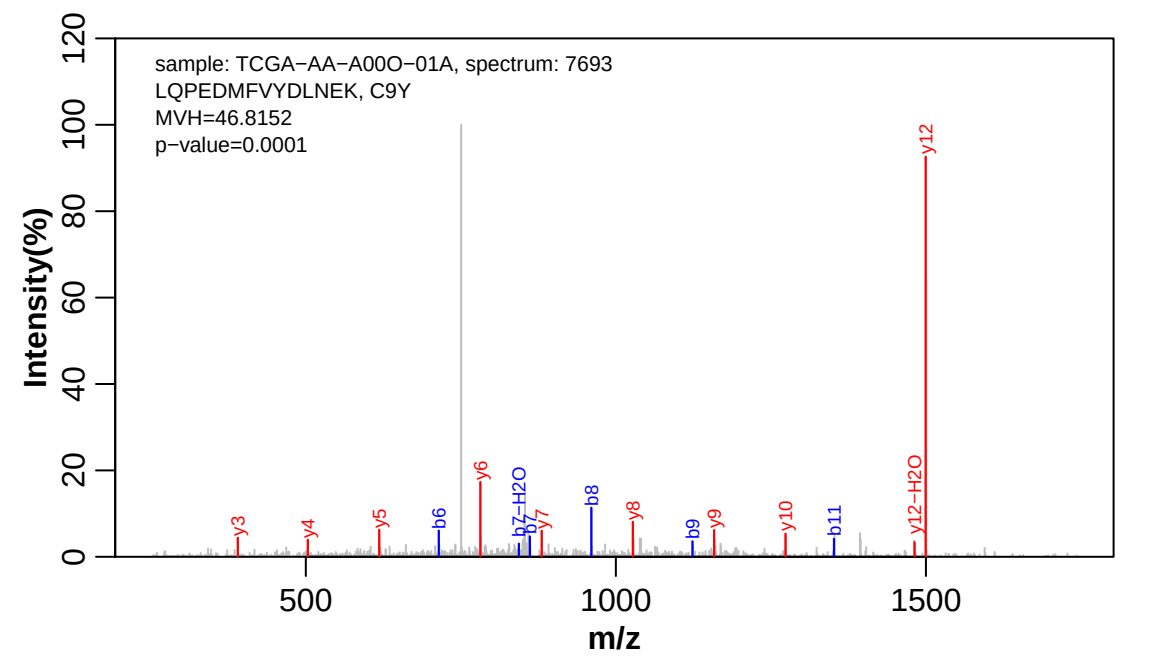

sample: TCGA−AA−A00O−01A, spectrum: 138041
LEGLLEGLGLR, G6E
MVH=57.2310
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
b3
y3
b4
y4
y5−NH3
y5
b5
y6
b6−H2O
b6
b8−H2O
b8
y8
b9
y9
b10
y7

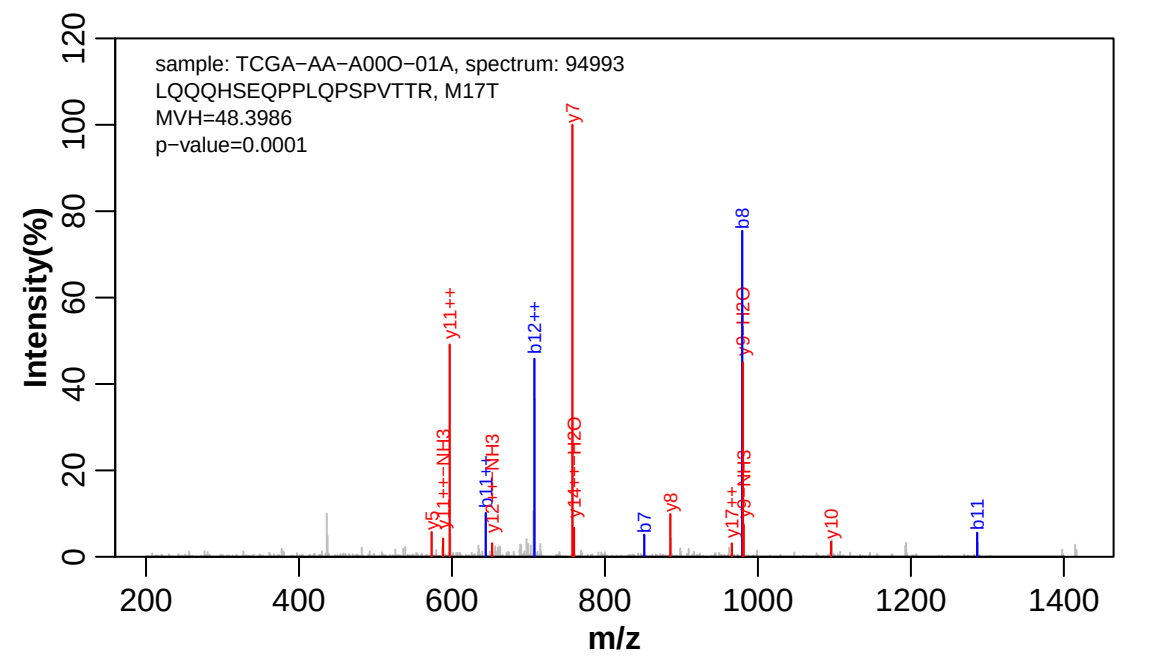

sample: TCGA−AA−A00O−01A, spectrum: 28475
LFEEDPAVGALVLTGGDK, T1I
MVH=81.0179
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
b5−H2O
y5
b4
y4
b3
b7
b7−H2O
b7−NH3
y9
b9
b10
y12
b11
b12
y14
b13
y15
y16

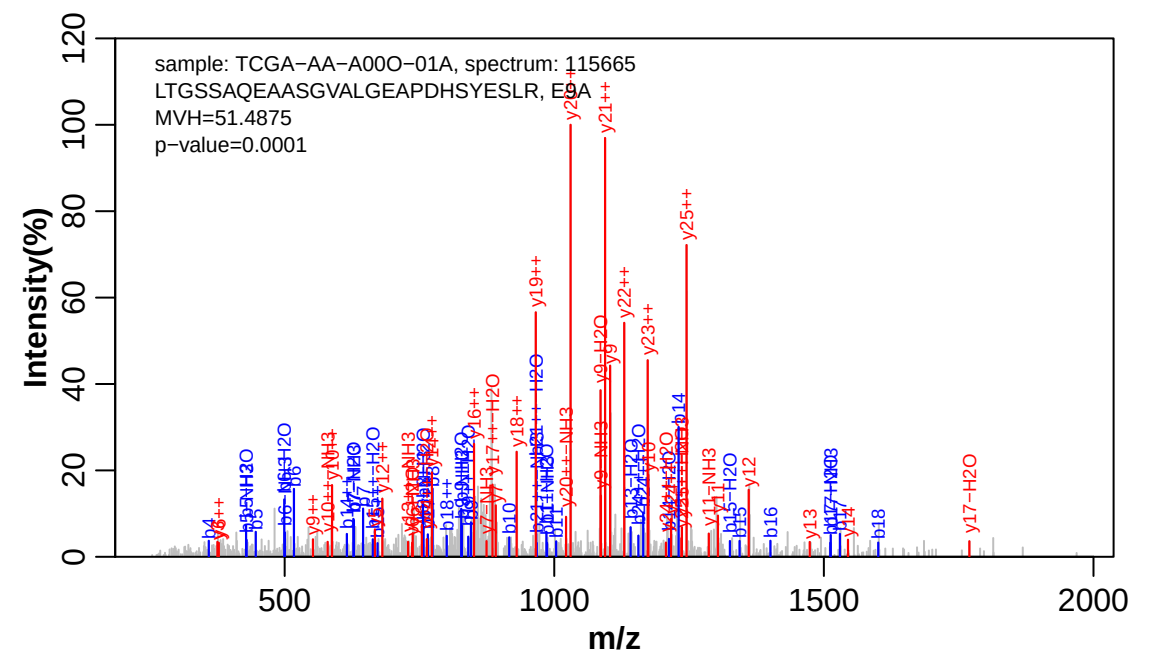

sample: TCGA−AA−A00O−01A, spectrum: 138010
LKEVFPMAALMPGAEK, T7M
MVH=40.4208
p−value=0.0001
Intensity(%)
m/z
y5
y6
y7
y7−NH3
b10++
b11++
b10++−NH3
y5++
y7++
y4
y9++
b8++
y11++
b15++
y8
b7
y9
b8
b9
b10

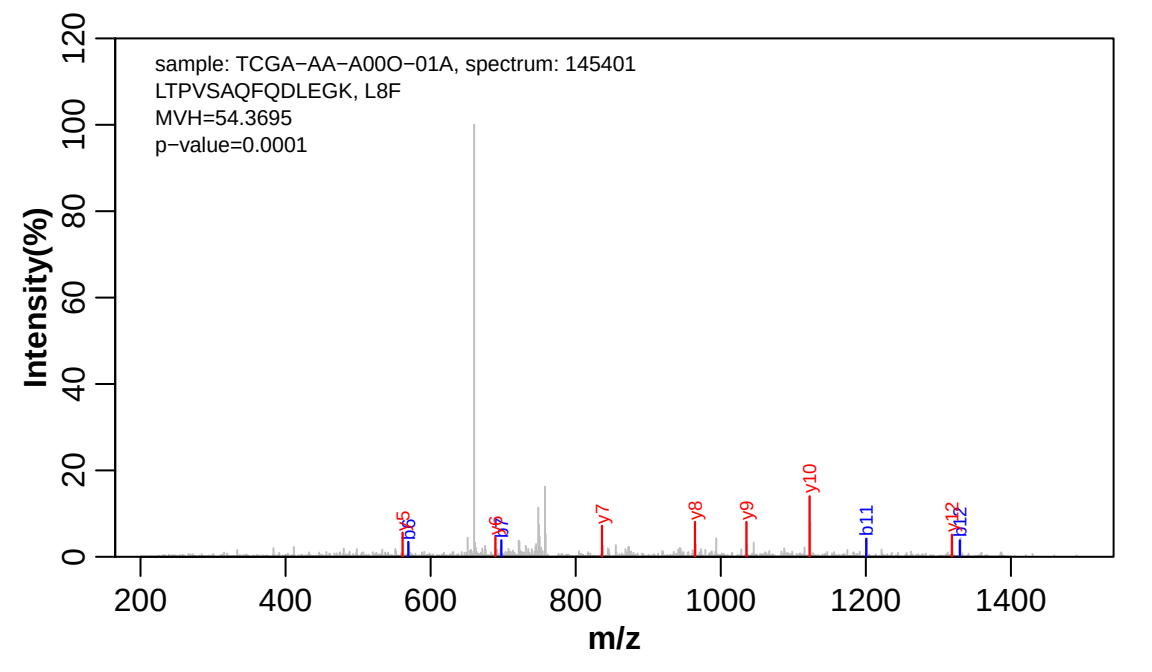

sample: TCGA−AA−A00O−01A, spectrum: 90116
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=40.0685
p−value=0.0001
Intensity(%)
m/z
y4
y5++−NH3
y5++
y6++
y11++
b14++
b14++−H2O
b15++
b16++
b8++
y7++−NH3
y8++
y8++−H2O
b10−H2O
b10
y10
b20++
y11
b11

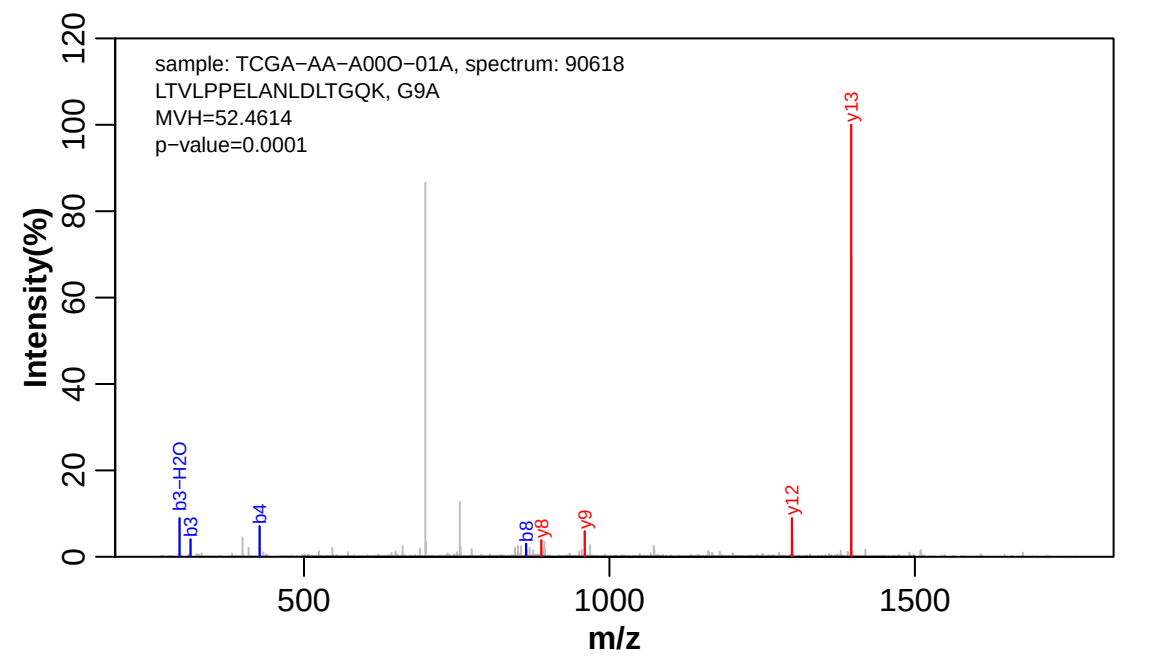

sample: TCGA−AA−A00O−01A, spectrum: 85062
LQELTPSSGDPGEHDPASTHK, P4L
MVH=49.1057
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y11++
y13++
y16++−H2O
y16+++−H2O
b5
b10
b8−H2O
b8
y16++−H2O
y6+++−H2O
b4++−NH3
b5++
b3
y11+++
b8++−H2O
b8++
y13+++−H2O
y15++
b15++

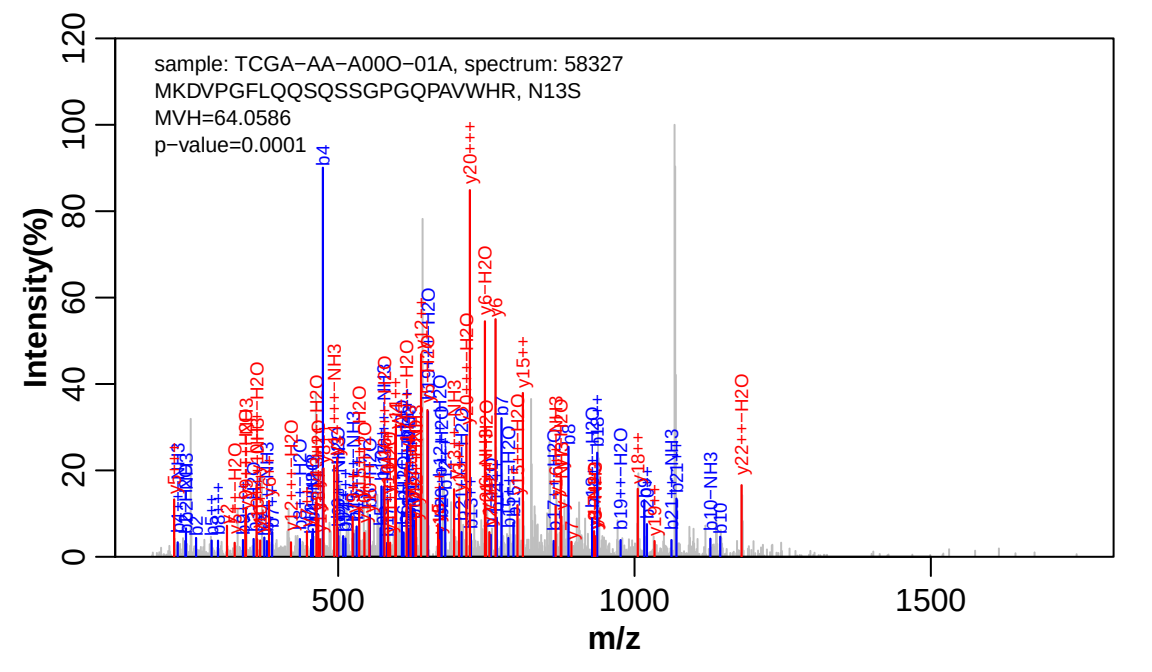

sample: TCGA−AA−A00O−01A, spectrum: 7693
LQPEDMFVYDLNEK, C9Y
MVH=46.8152
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b6
y6
b7−H2O
b7
y7
b8
y8
b9
y9
y10
b11
y12−H2O
y12

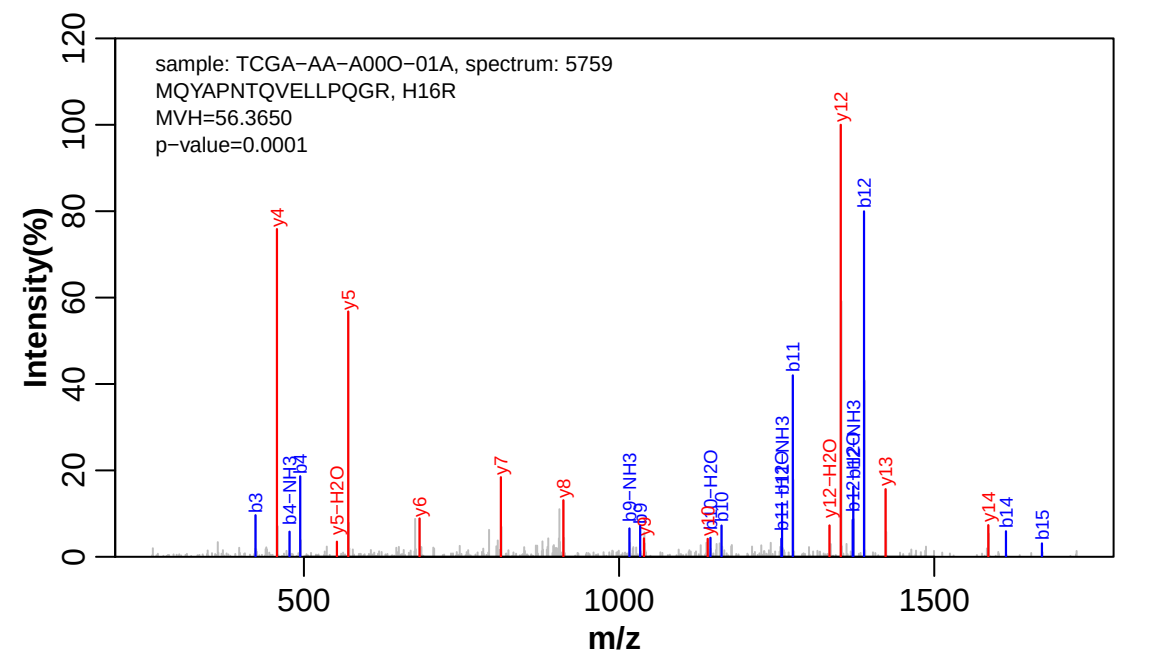

sample: TCGA−AA−A00O−01A, spectrum: 94993
LQQQHSEQPPLQPSPVTTR, M17T
MVH=48.3986
p−value=0.0001
Intensity(%)
m/z
y7
b8
y11++
b12++
y9 H2O
y14++ H2O
y11++−NH3
y5
y12++
b11++−NH3
y8
b7
y17++
y9−NH3
y10
b11

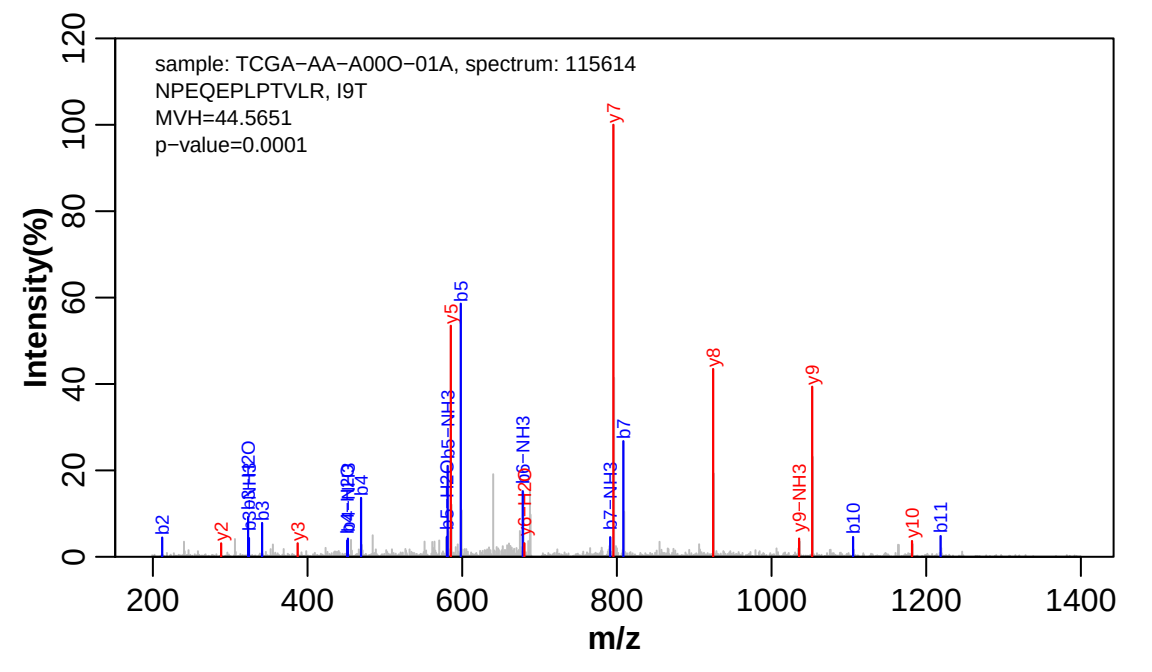

sample: TCGA−AA−A00O−01A, spectrum: 115665
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=51.4875
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y20++
y21++
y25++
y19++
y22++
y23++
y9−H2O
y9−NH3
y8−NH3
y8−H2O
y20++−NH3
y17++−H2O
y16++
y18++
y17−H2O
y11−NH3
y11−H2O
y12
b16
y13
b18
y14
b15−H2O
b15−NH3
b8
b6−NH3
b6−H2O
y9++
y10++−NH3
y12++
b4
y6++

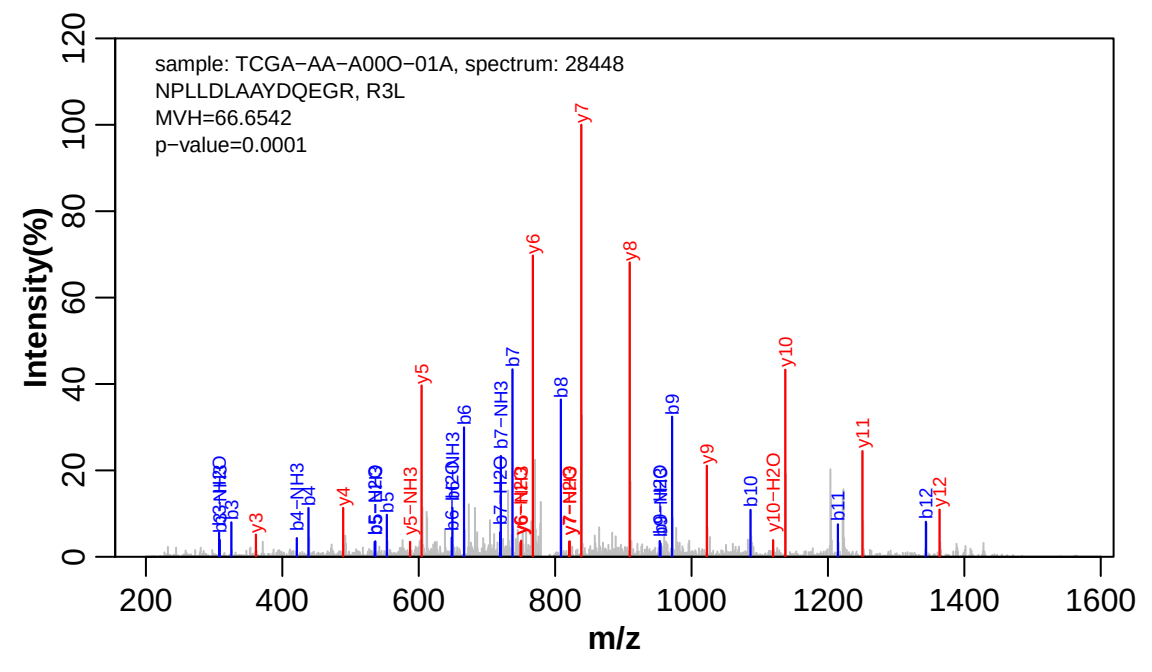

sample: TCGA−AA−A00O−01A, spectrum: 145401
LTPVSAQFQDLEGK, L8F
MVH=54.3695
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5
b6
y6
b7
y7
y8
y9
y10
b11
y12
b12

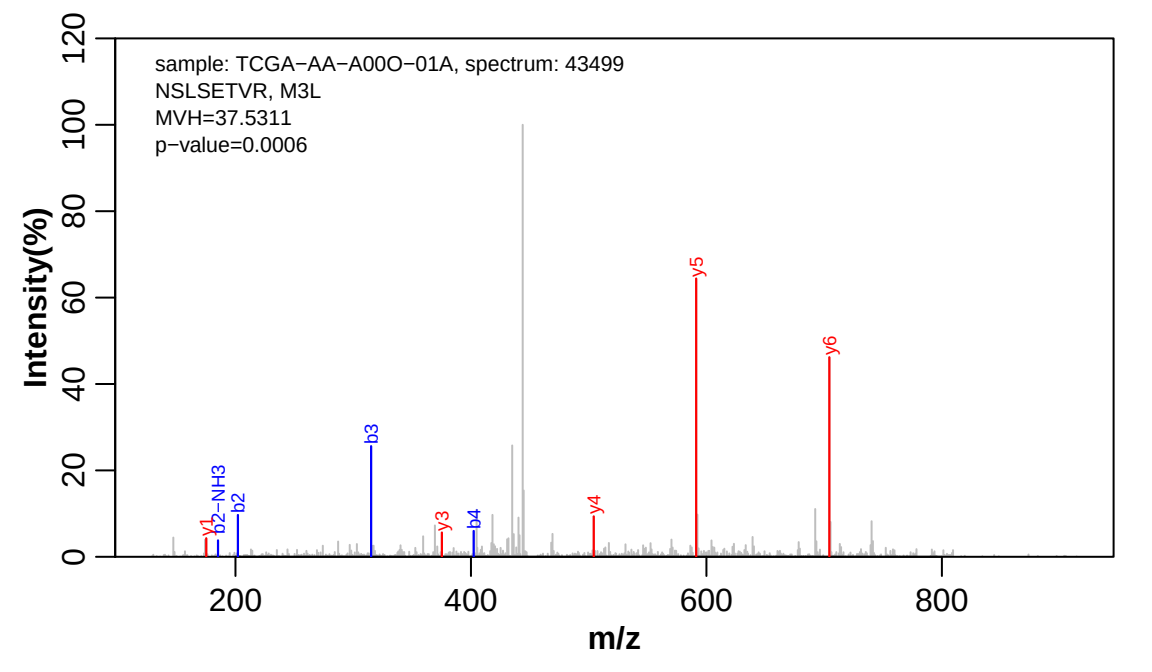

sample: TCGA−AA−A00O−01A, spectrum: 90618
LTVLPPELANLDLTGQK, G9A
MVH=52.4614
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b3
b4
b8
y8
y9
y12
y13

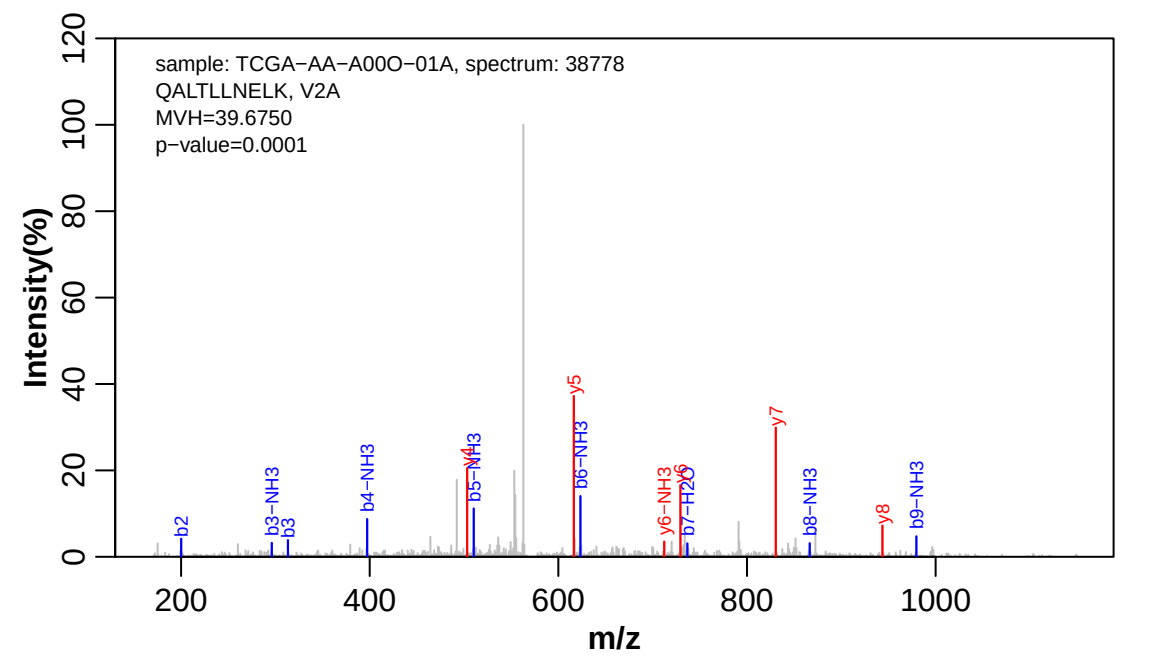

sample: TCGA−AA−A00O−01A, spectrum: 58327
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=64.0586
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y20+++
y6−H2O
y15++
y22++−H2O
b10−NH3

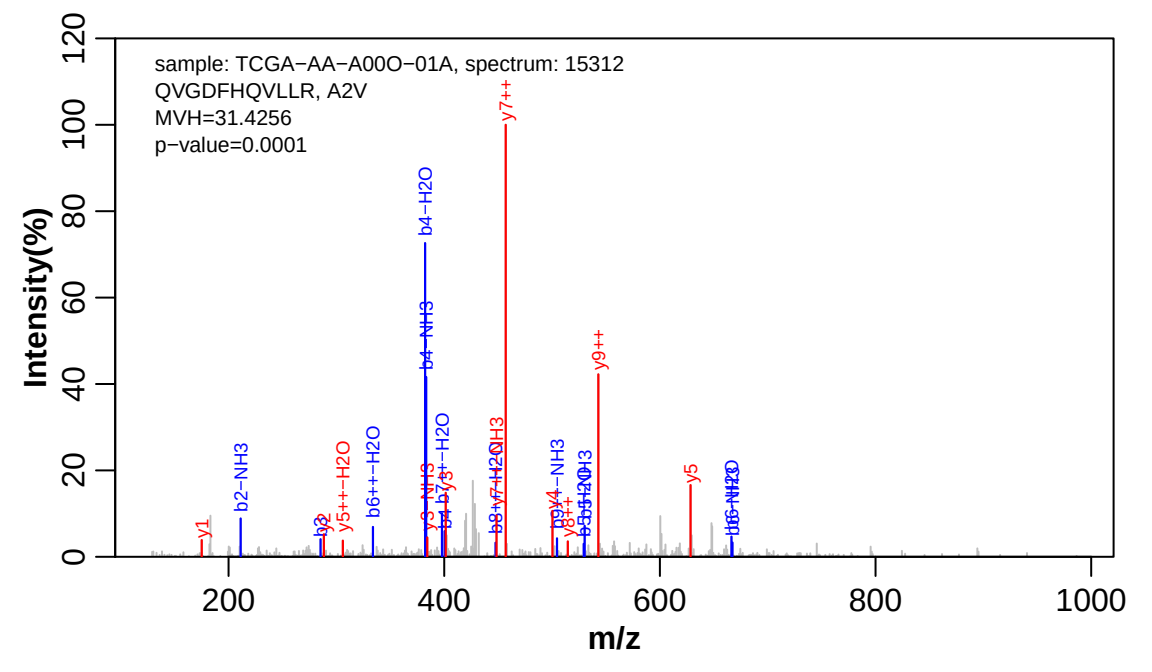

sample: TCGA−AA−A00O−01A, spectrum: 5759
MQYAPNTQVELLPQGR, H16R
MVH=56.3650
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
b3
b4−NH3
b4
y5−H2O
y6
y7
y8
b9−NH3
y9
y10−H2O
b10
b11
y12
b12
y12−H2O
b12−NH3
y13
y14
b14
b15

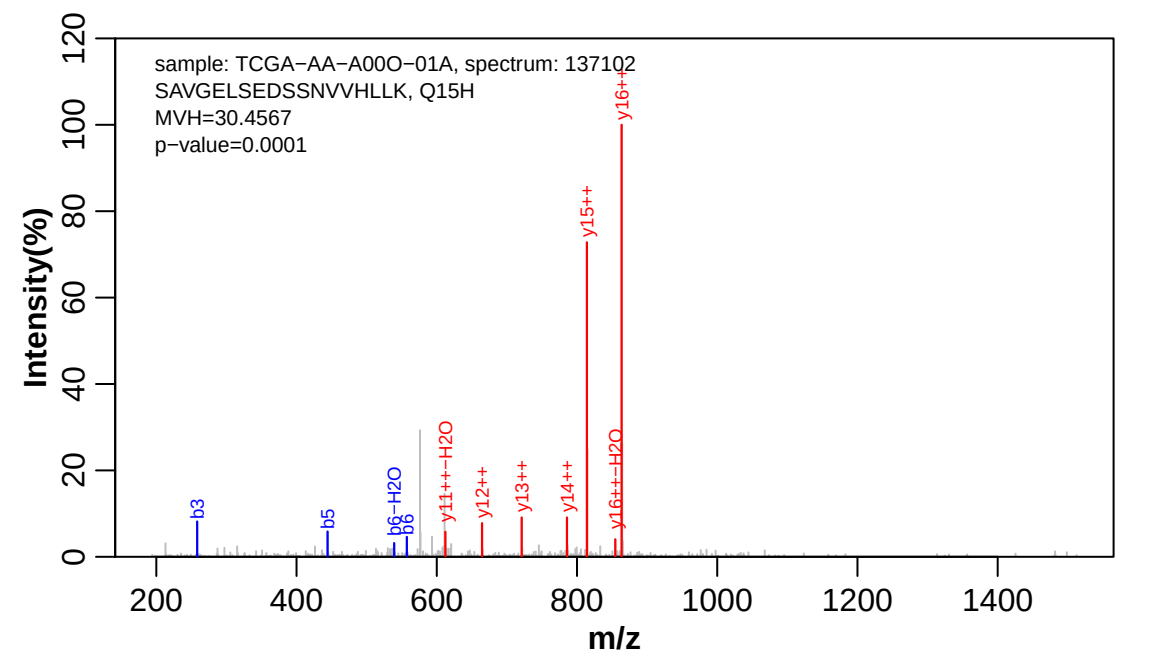

sample: TCGA−AA−A00O−01A, spectrum: 115614
NPEQEPLPTVLR, I9T
MVH=44.5651
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y5
b5
y7
b7
y8
y9
y9−NH3
b10
y10
b11

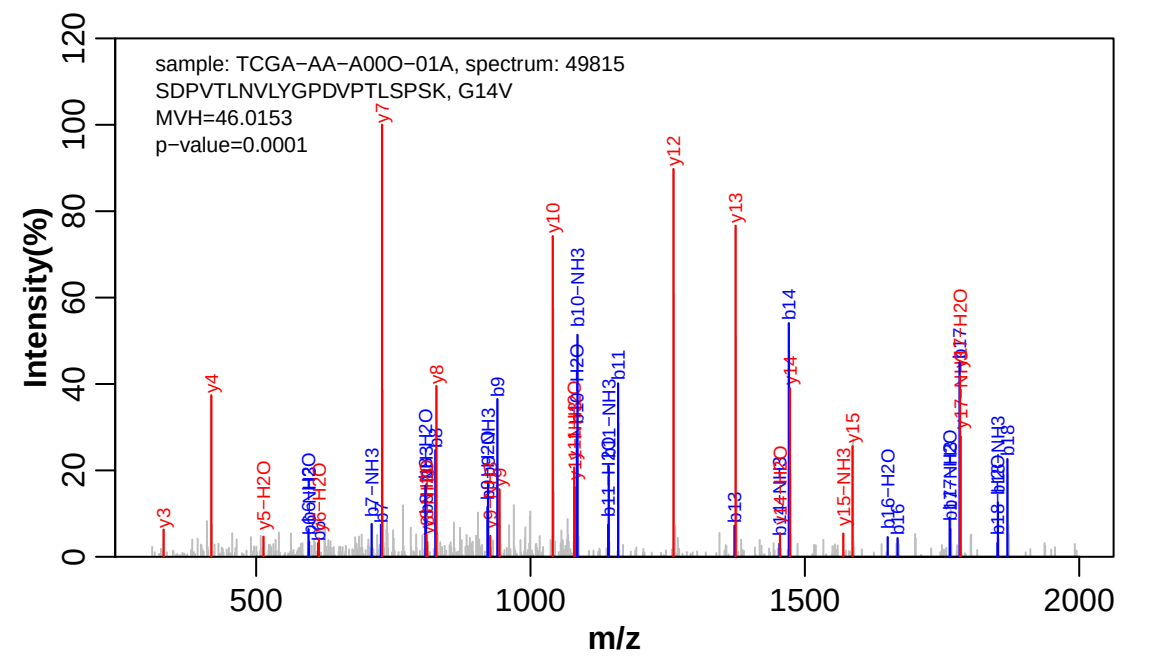

sample: TCGA−AA−A00O−01A, spectrum: 28448
NPLLDLAAYDQEGR, R3L
MVH=66.6542
p−value=0.0001
Intensity(%)
m/z
y7
y6
y8
y10
y5
b8
b7
b9
y11
y9
b10
y10−H2O
b11
b12
y12
y5−NH3
y4
b4
b4−NH3
y3
b3
b6
b7−NH3
y7−NH3
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

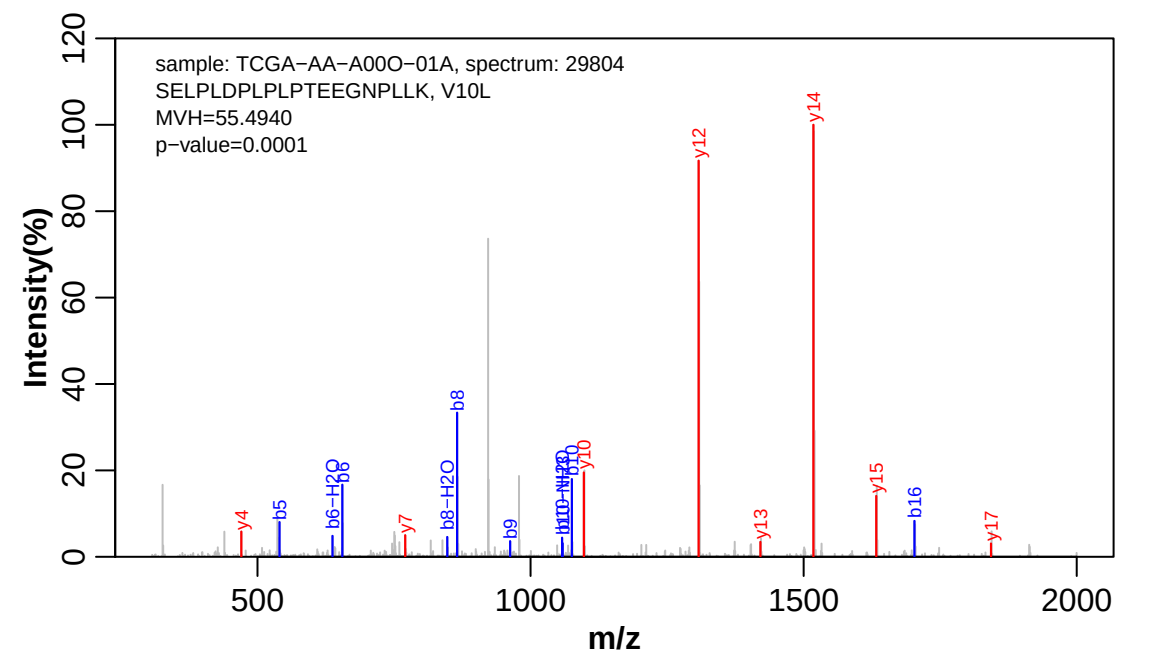

sample: TCGA−AA−A00O−01A, spectrum: 43499
NSLSETVR, M3L
MVH=37.5311
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−NH3
b2
b3
y3
b4
y4
y5
y6

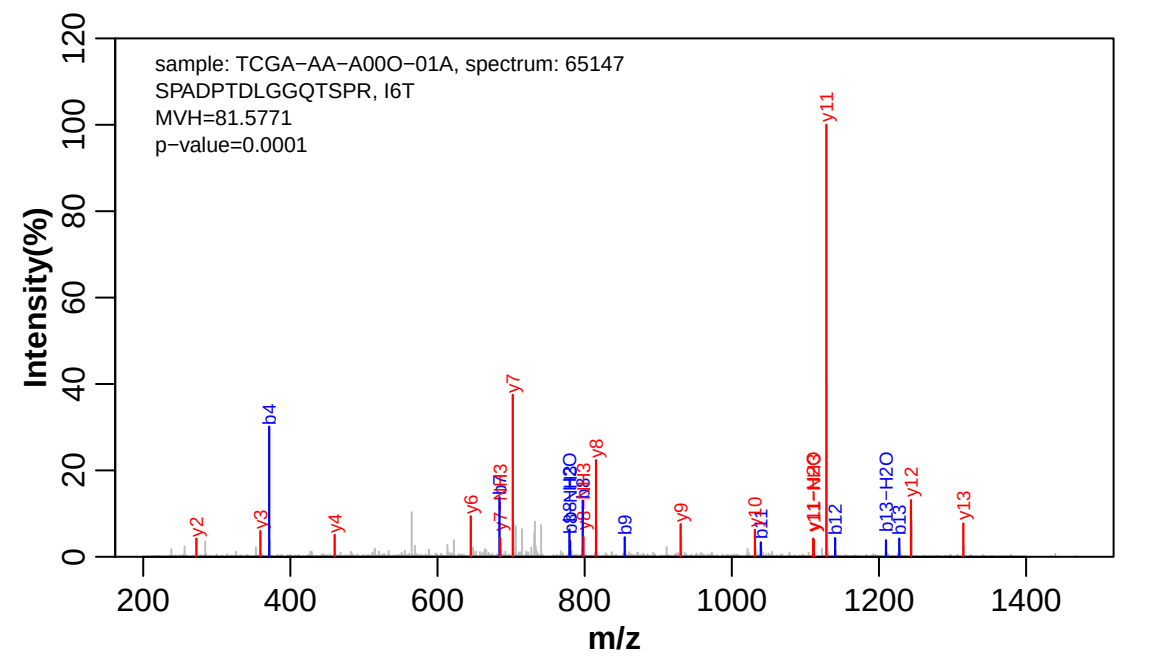

sample: TCGA−AA−A00O−01A, spectrum: 38778
QALTLLNELK, V2A
MVH=39.6750
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−NH3
b3
b4−NH3
y4
b5−NH3
y5
b6−NH3
y6−NH3
b7−H2O
y6
y7
b8−NH3
y8
b9−NH3

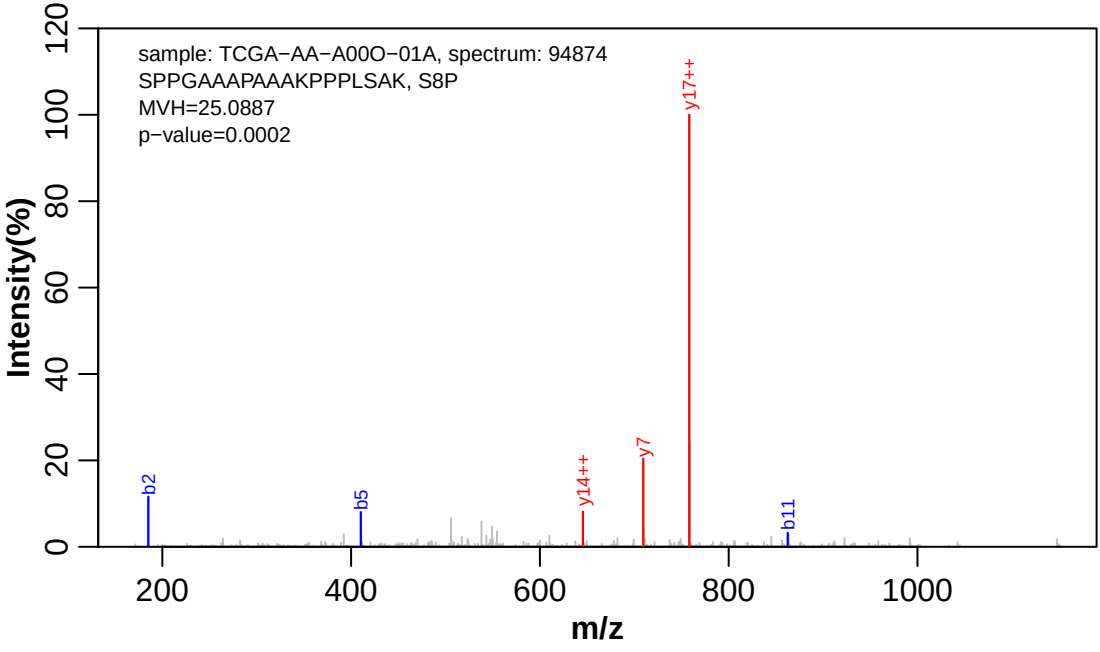

sample: TCGA−AA−A00O−01A, spectrum: 15312
QVGDFHQVLLR, A2V
MVH=31.4256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y7++
b4−H2O
b4−NH3
y9++
y5
b2−NH3
y1
b2
y5++−H2O
b6++−H2O
y3−NH3
b4
b7++−H2O
b8+y7+−H2O−NH3
y8++
b5+−H2O−NH3
y4+−NH3
b6−NH3

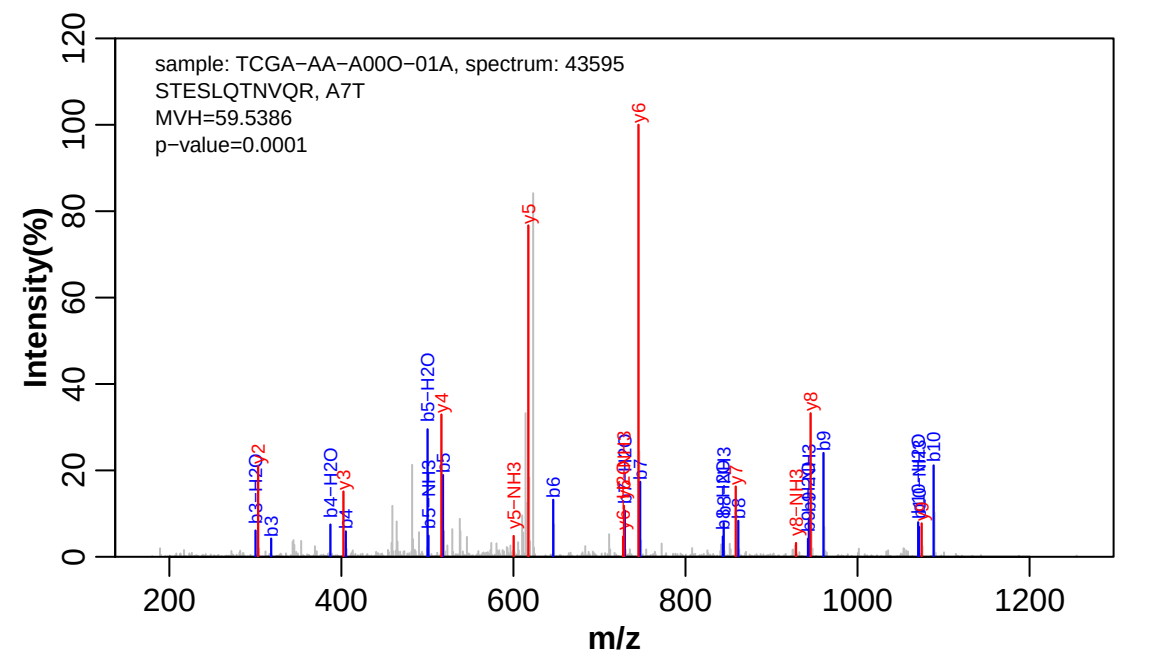

sample: TCGA−AA−A00O−01A, spectrum: 137102
SAVGELSEDSSNVVHLLK, Q15H
MVH=30.4567
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
b5
b6−H2O
b6
y11++−H2O
y12++
y13++
y14++
y15++
y16++−H2O
y16++

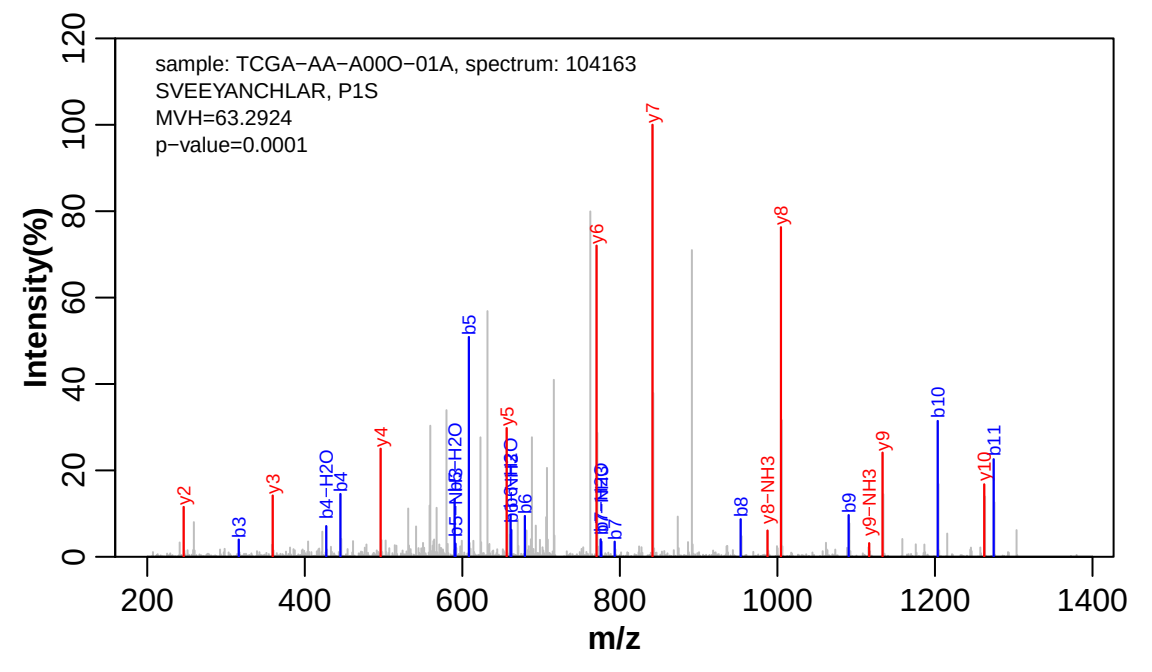

sample: TCGA−AA−A00O−01A, spectrum: 49815
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=46.0153
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y12
y13
y10
b10−NH3
y4
y8
b9
b11
b14
y14
y15
y5−H2O
b7−NH3
b13
b16−H2O
y15−NH3
b16
y3

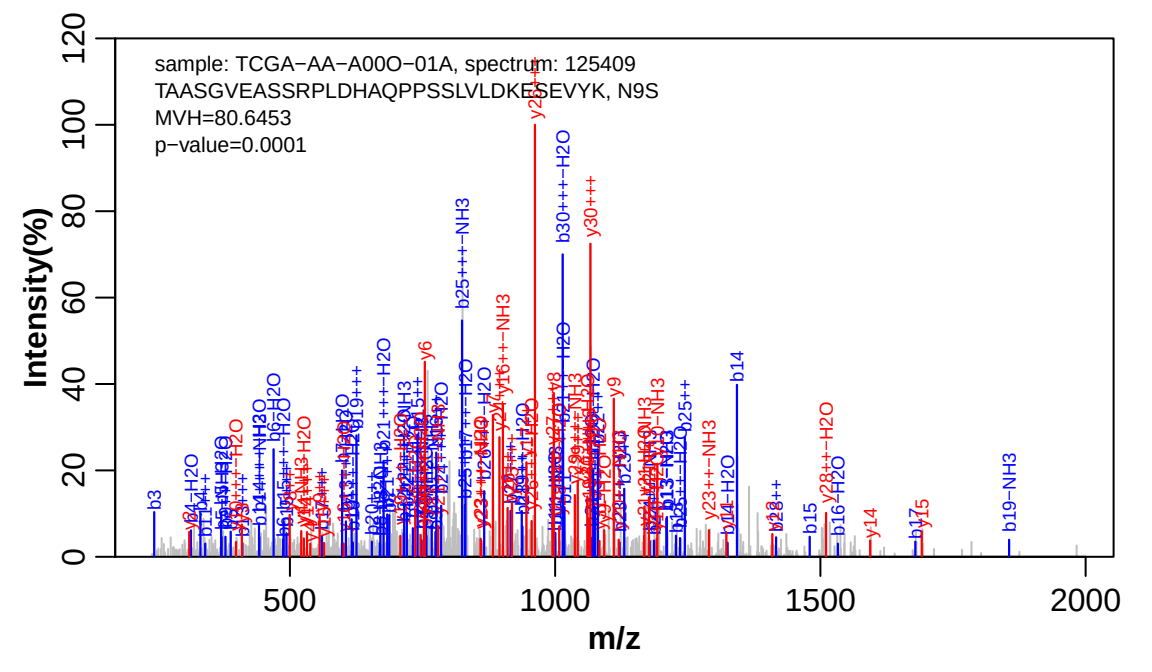

sample: TCGA−AA−A00O−01A, spectrum: 29804
SELPLDPLPLPTEEGNPLLK, V10L
MVH=55.4940
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−H2O
b6
y7
b8−H2O
b8
b9
y10
y12
y13
y14
y15
b16
y17

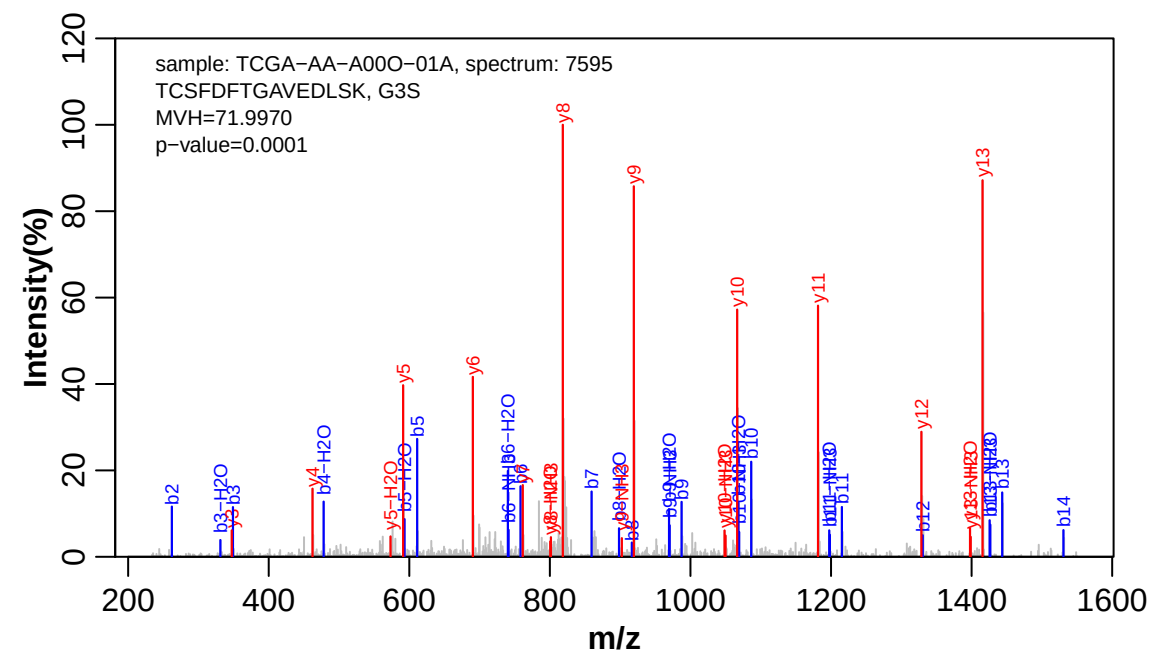

sample: TCGA−AA−A00O−01A, spectrum: 65147
SPADPTDLGGQTSPR, I6T
MVH=81.5771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4
y3
y4
y6
y7−NH3
y7
b7−H2O
b7
y8−H2O
y8−NH3
y8
b9
y9
b10
y10
b11
y11−NH3
y11−H2O
y11
b12
b13−H2O
b13
y12
y13

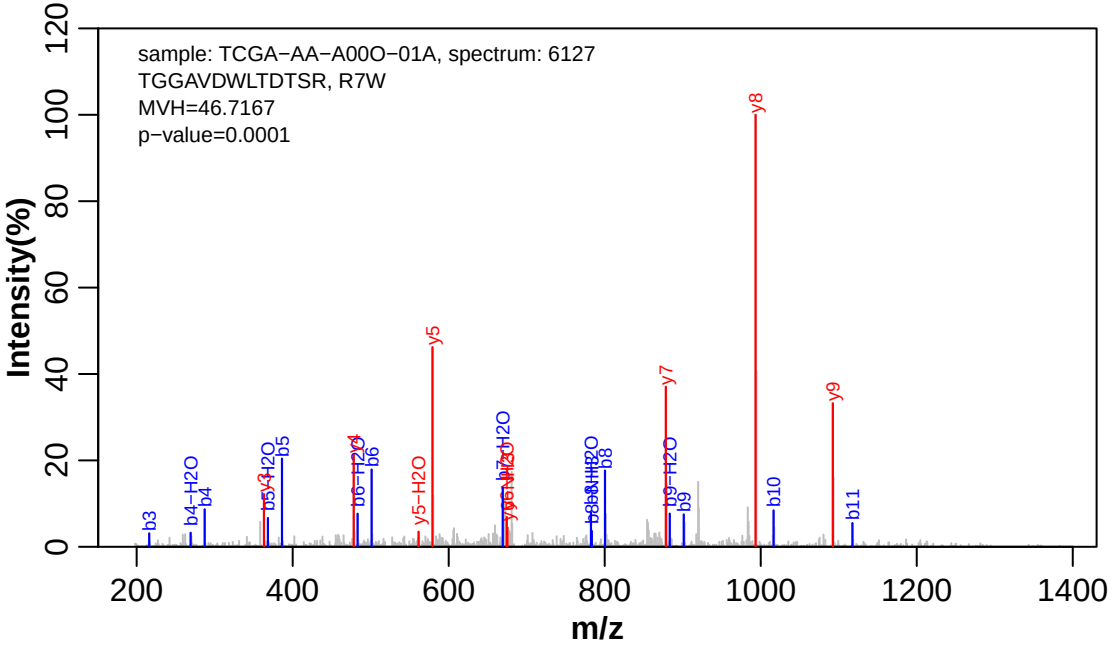

sample: TCGA−AA−A00O−01A, spectrum: 94874
SPPGAAAPAAAKPPPLSAK, S8P
MVH=25.0887
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b5
y14++
y7
y17++
b11

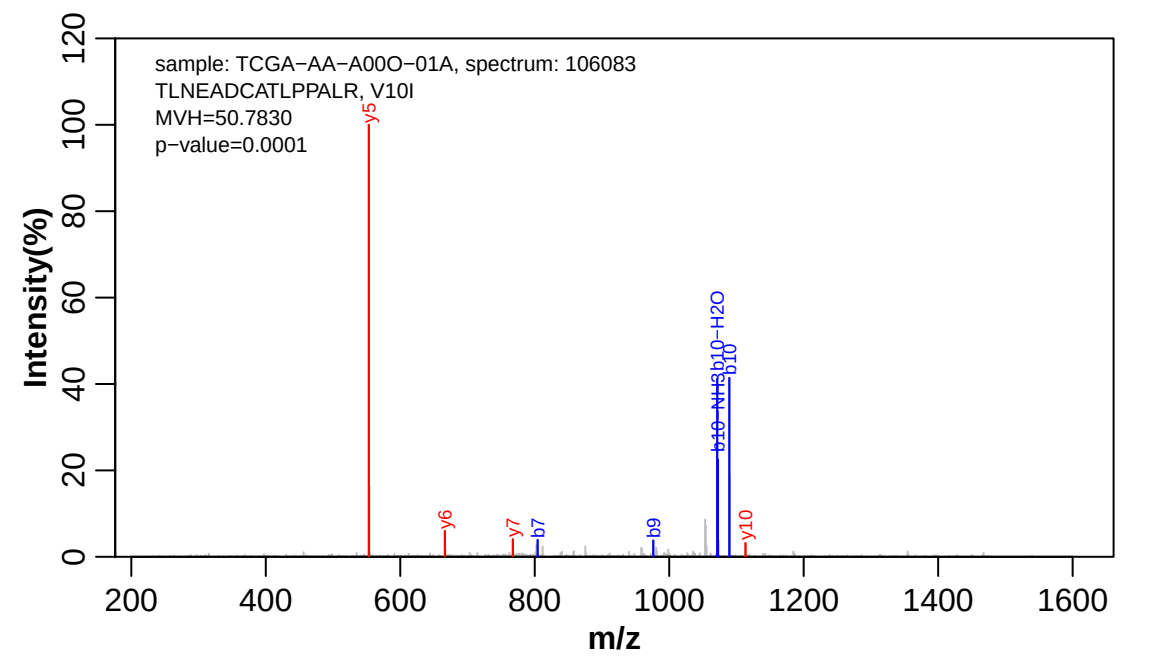

sample: TCGA−AA−A00O−01A, spectrum: 43595
STESLQTNVQR, A7T
MVH=59.5386
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
b5−H2O
y4
b5
b5−NH3
y5−NH3
b6
y8
b9
b10
b3
b3−H2O
b4
b4−H2O
y3

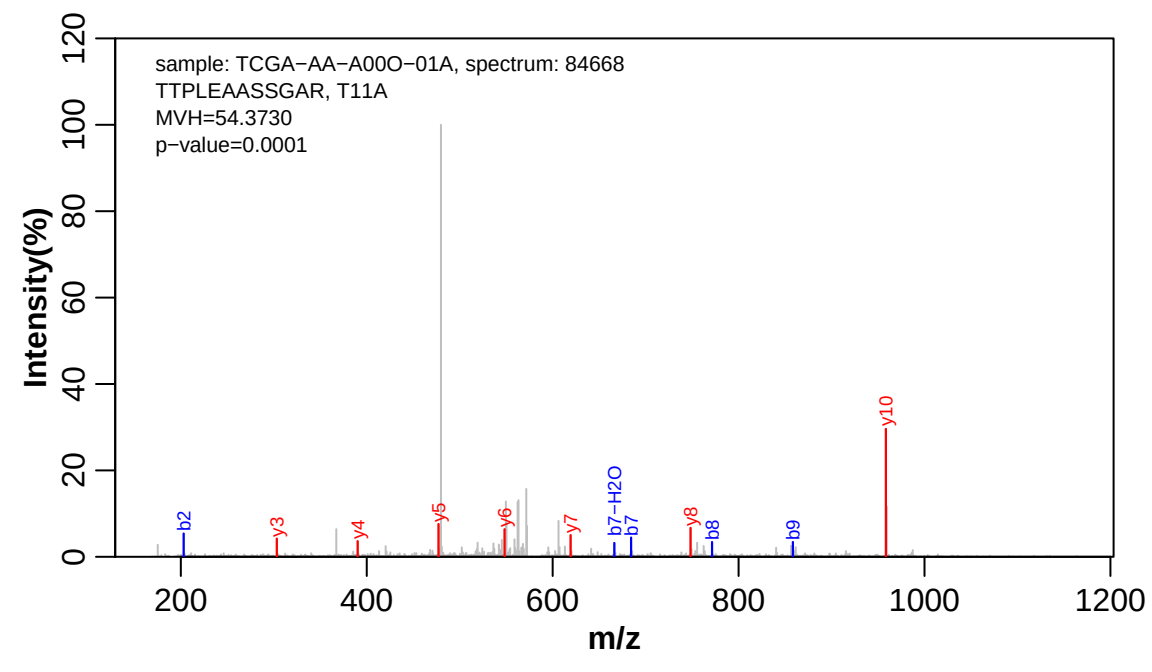

sample: TCGA−AA−A00O−01A, spectrum: 104163
SVEEYANCHLAR, P1S
MVH=63.2924
p−value=0.0001
Intensity(%)
m/z
y7
y8
y6
b5
y4
y5
y2
y3
b3
b4−H2O
b4
b5−NH3
b5−H2O
b6
b7
b8
y8−NH3
b9
y9−NH3
y9
b10
b11
y10

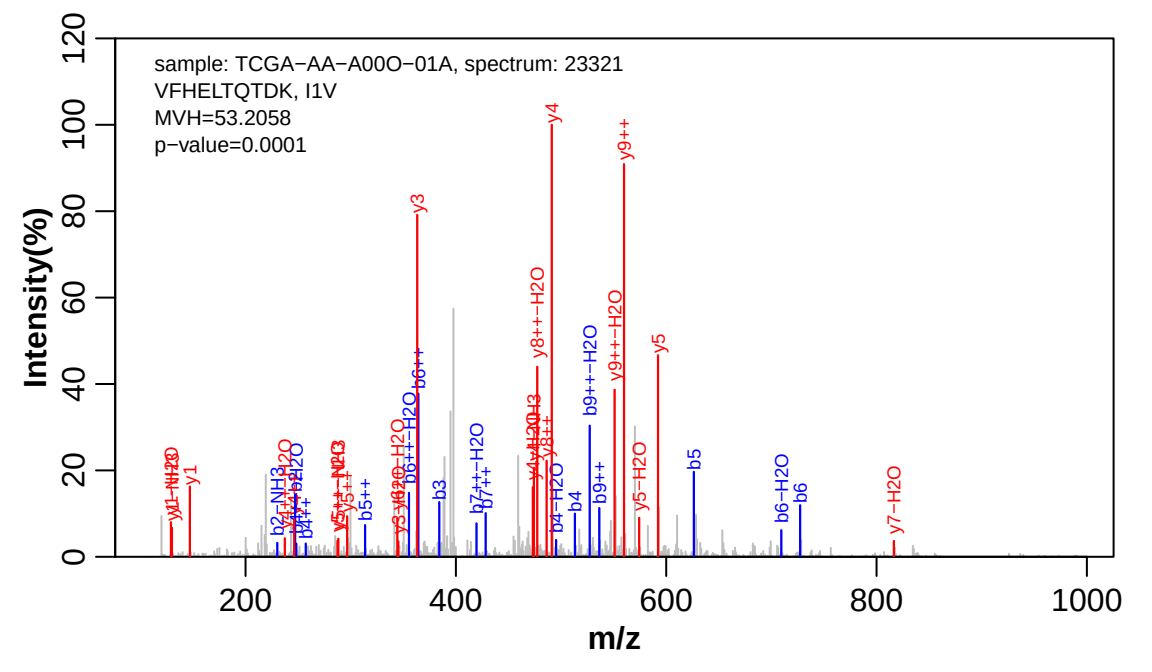

sample: TCGA−AA−A00O−01A, spectrum: 125409
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=80.6453
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4−H2O
b6−H2O
b6−NH3
b14−NH3
b14−H2O
b14
b25+++−NH3
y6
y26++
b30+++−H2O
y30+++
y16++−NH3
y9
b14
b19−NH3
y14
b15
b16−H2O
y28++−H2O
y23++−NH3
b25++
b13−NH3
b13−H2O
b21+++−H2O
b25+++−H2O

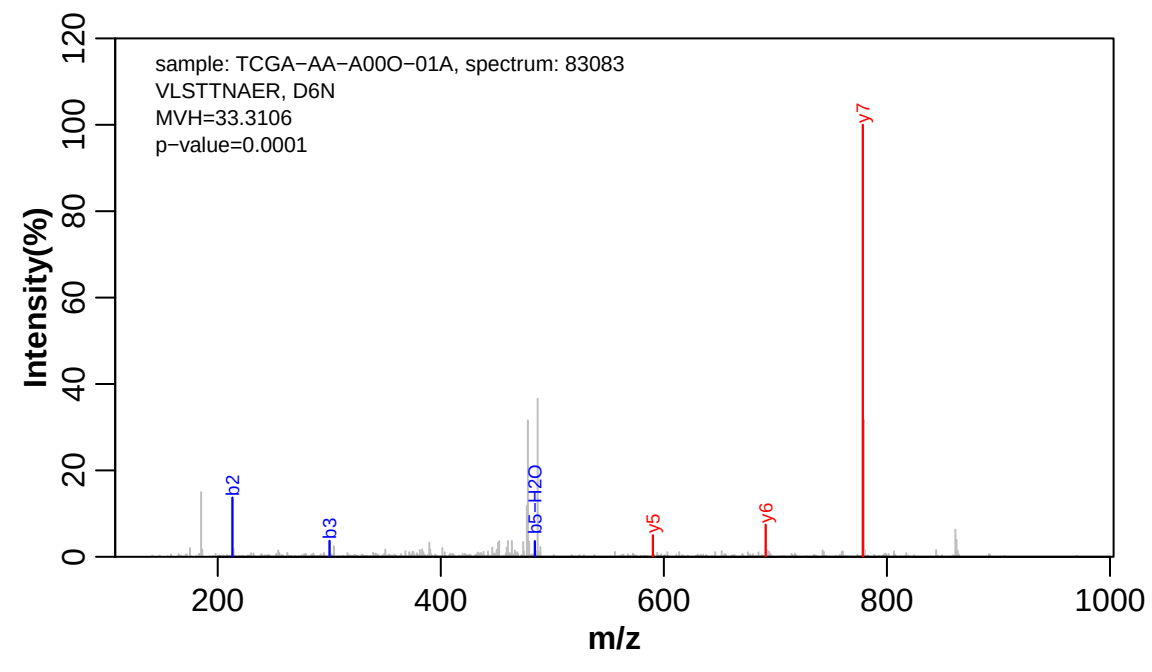

sample: TCGA−AA−A00O−01A, spectrum: 7595
TCSFDFTGAVEDLSK, G3S
MVH=71.9970
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
y3
b3
y4
b4−H2O
y5−H2O
b5−H2O
y5
b5
y6
b6−NH3
b6−H2O
y6
y8−H2O
y8−NH3
y8
b7
b8−NH3
b8
y9
b9−H2O
b9−NH3
b9
y10−NH3
y10−H2O
y10
b10
y11
b11−NH3
b11−H2O
b11
y12
b12
y13−NH3
y13
b13−NH3
b13
b14

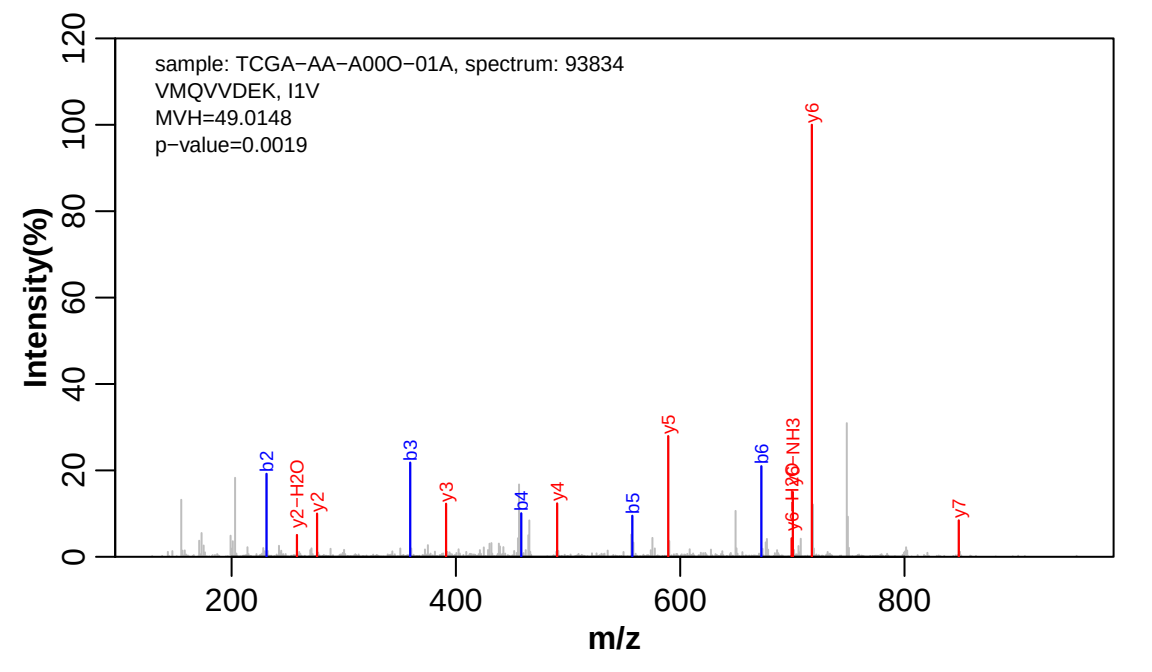

sample: TCGA−AA−A00O−01A, spectrum: 6127
TGGAVDWLTDTSR, R7W
MVH=46.7167
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
b4−H2O
b4
b5−H2O
b5
b6−H2O
b6
y5−H2O
y5
b8
b9−H2O
b9
y7
y8
b10
y9
b11

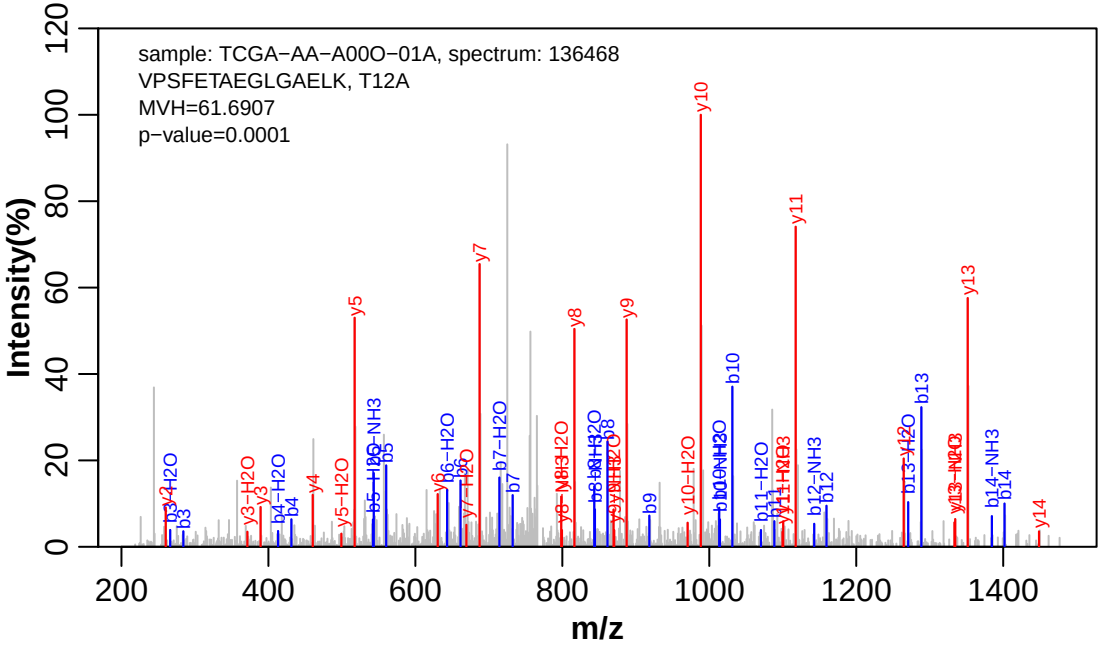

sample: TCGA−AA−A00O−01A, spectrum: 106083
TLNEADCATLPPALR, V10I
MVH=50.7830
p−value=0.0001
Intensity(%)
m/z
y5
y6
y7
b7
b9
b10−NH3
b10−H2O
b10
y10

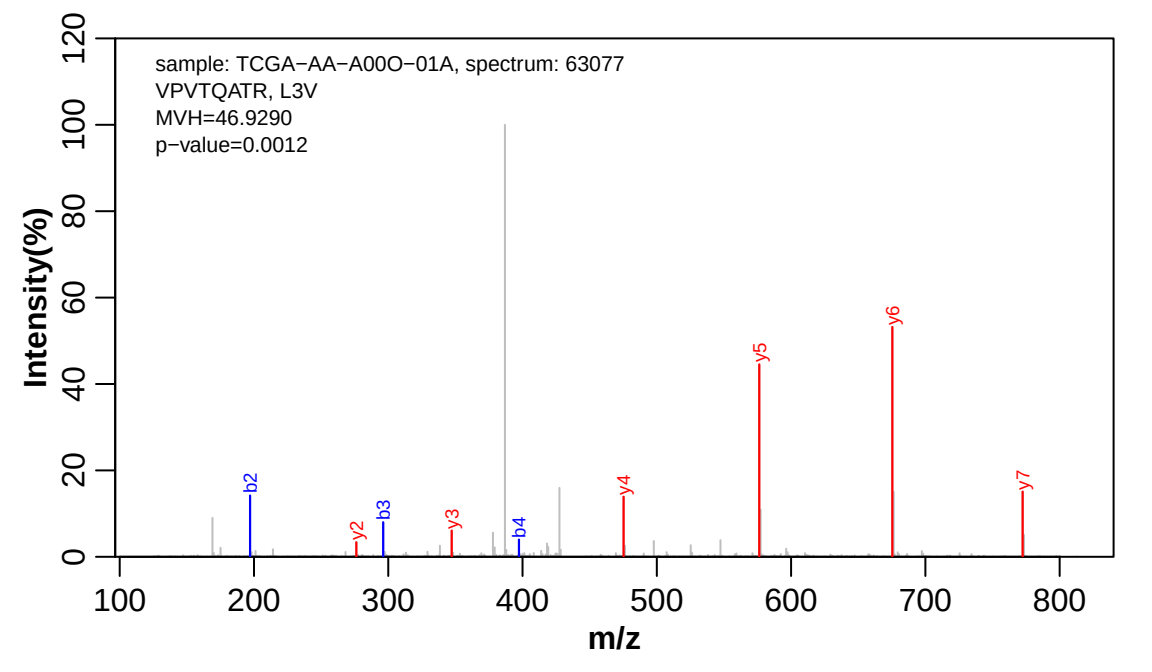

sample: TCGA−AA−A00O−01A, spectrum: 84668
TTPLEAASSGAR, T11A
MVH=54.3730
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y3
y4
y5
y6
y7
b7−H2O
b7
y8
b8
b9
y10

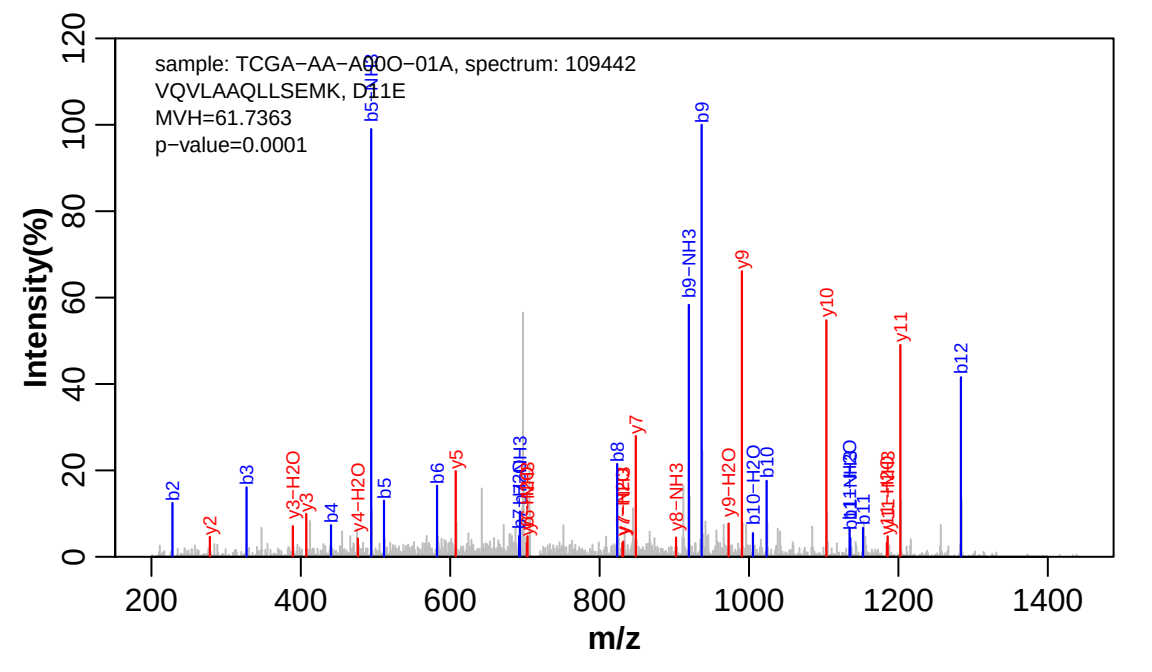

sample: TCGA−AA−A00O−01A, spectrum: 23321
VFHELTQTDK, I1V
MVH=53.2058
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y4
y9++
y3
y8++−H2O
y9++−H2O
y5
b9++−H2O
b6++
b9++
b4
b5
b6−H2O
b6
b3
b7++−H2O
b5++−H2O
y7−H2O
y5−H2O
y1
b5++

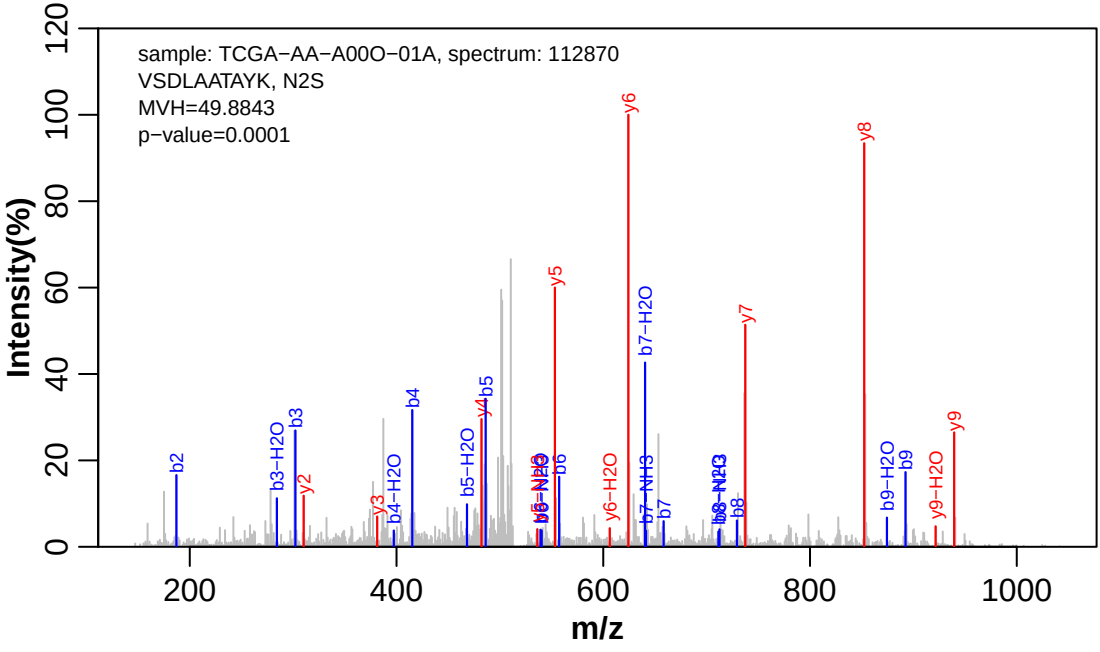

sample: TCGA−AA−A00O−01A, spectrum: 83083
VLSTTNAER, D6N
MVH=33.3106
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b5−H2O
y5
y6
y7

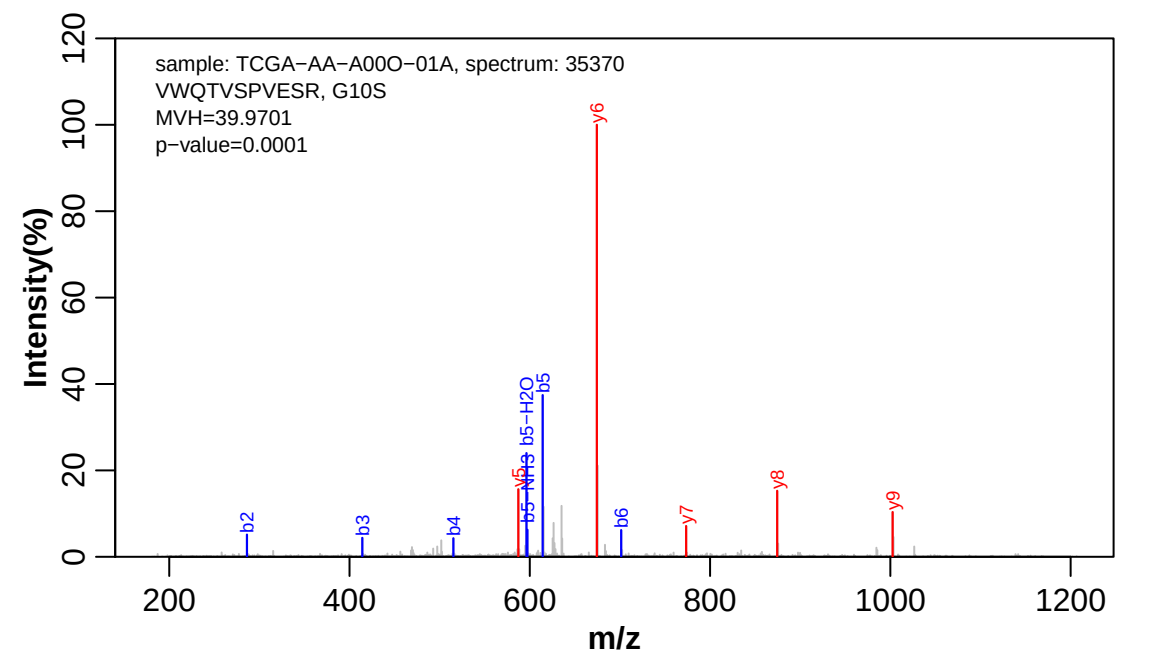

sample: TCGA−AA−A00O−01A, spectrum: 93834
VMQVVDEK, I1V
MVH=49.0148
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6−NH3
y6
y7

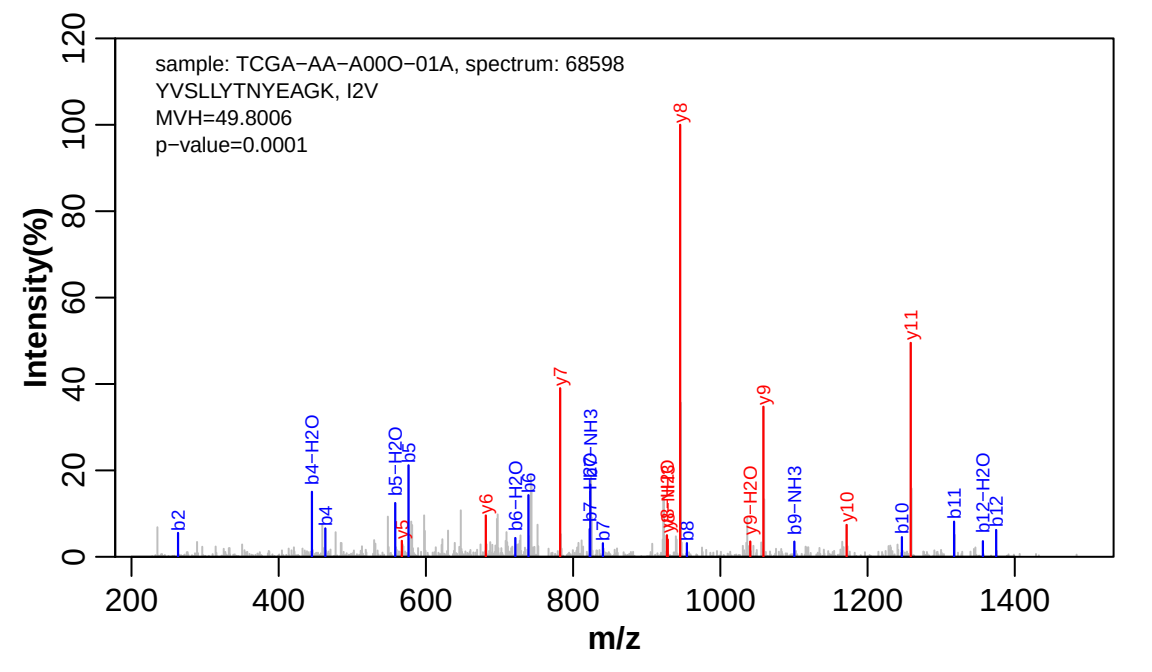

sample: TCGA−AA−A00O−01A, spectrum: 136468
VPSFETAEGLGAELK, T12A
MVH=61.6907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y13
y5
y7
y8
y9
b10
b13
b12
b14
y14
b7−H2O
b5−NH3
y6
y4
y5−H2O
y3−H2O
y3
b4
b4−H2O
b3
b3−H2O
y2
y2−H2O
b9
y10−H2O
b11−H2O
b12−NH3
b13−H2O
b14−NH3

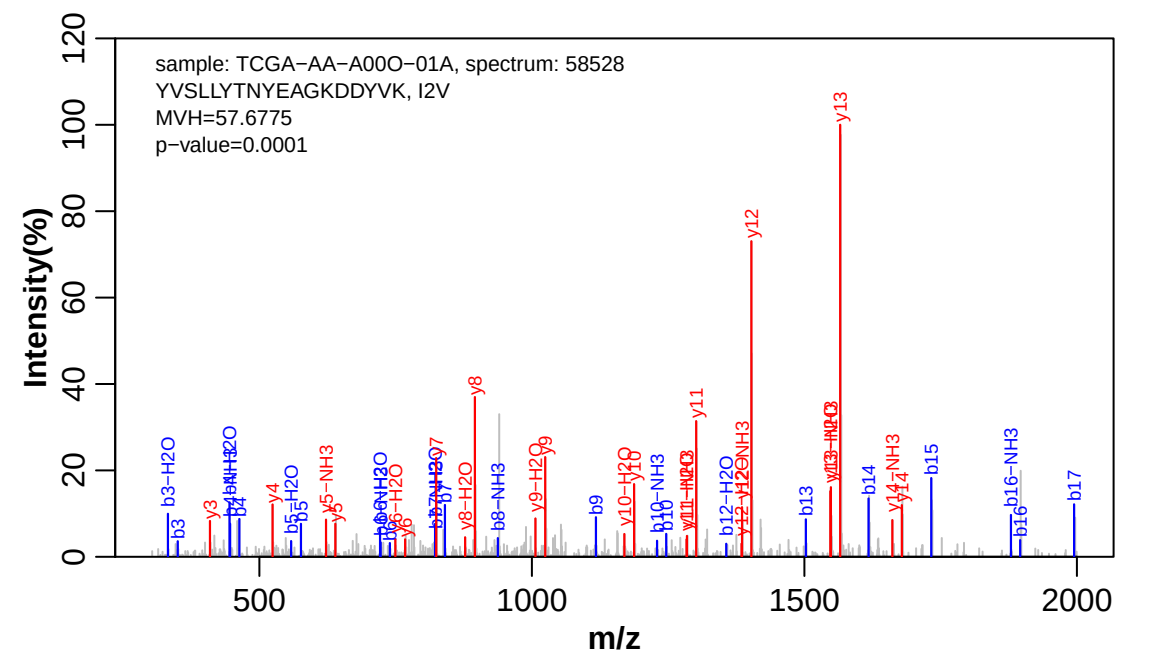

sample: TCGA−AA−A00O−01A, spectrum: 63077
VPVTQATR, L3V
MVH=46.9290
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
y2
b3
y3
b4
y4
y5
y6
y7

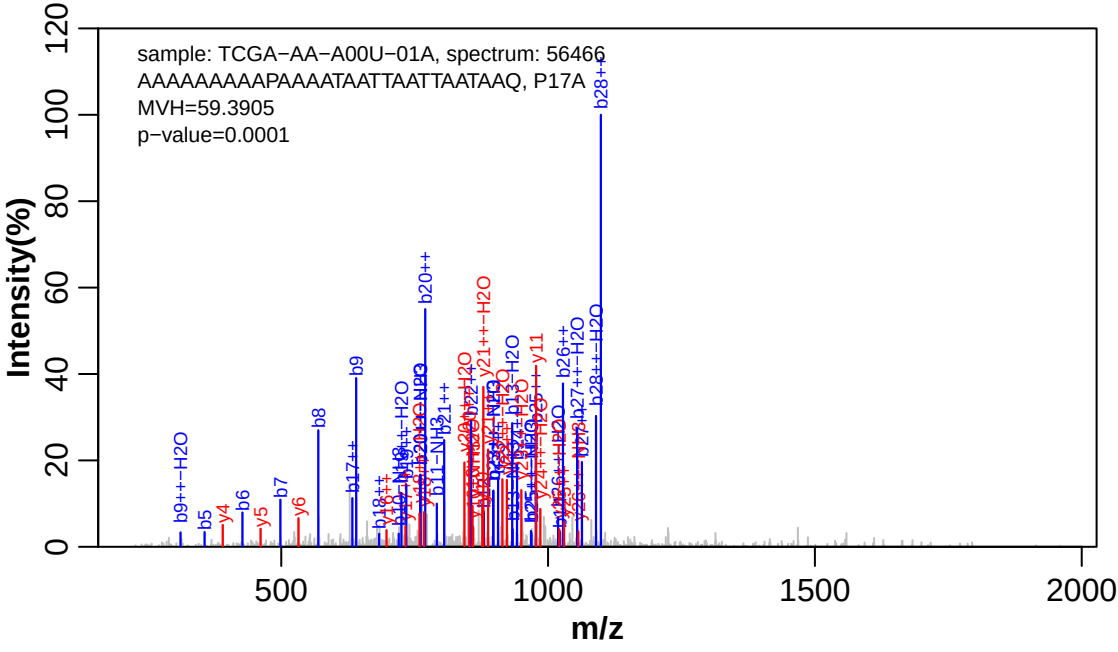

sample: TCGA−AA−A00O−01A, spectrum: 109442
VQVLAAQLLSEMK, D11E
MVH=61.7363
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5−NH3
b5
b6
y5
b7−H2O−NH3
b8
y7
y7−NH3
y8−NH3
b9
b9−NH3
y9
y9−H2O
b10−H2O
b10
y10
b11−NH3
b11−H2O
b11
y11
y11−H2O
b12

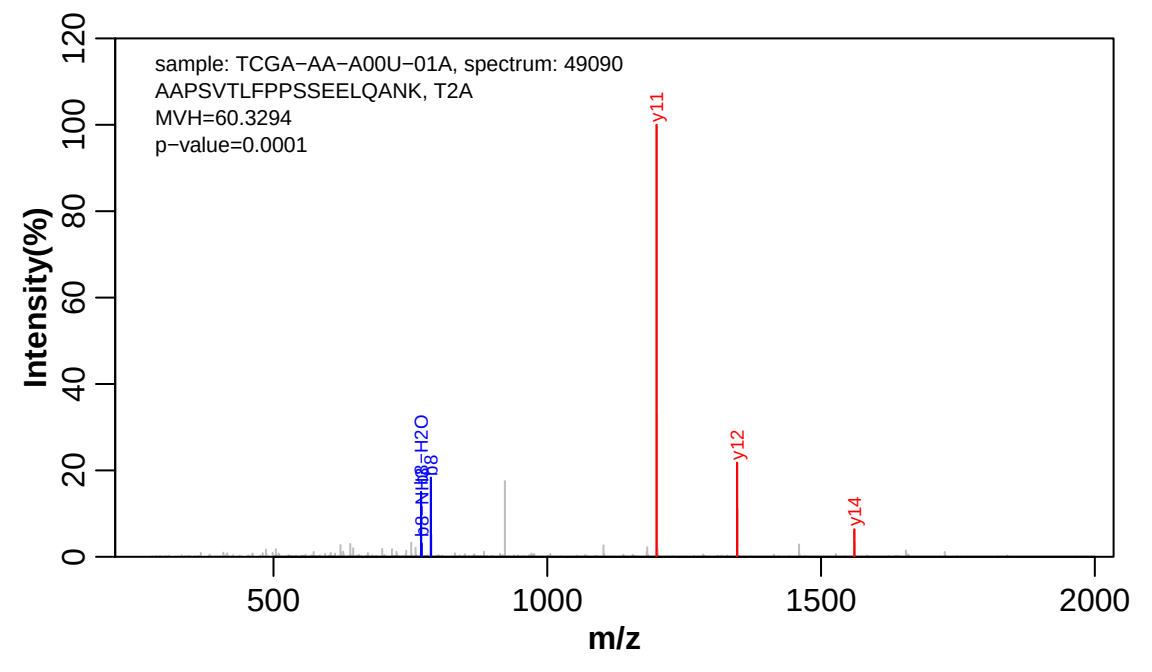

sample: TCGA−AA−A00O−01A, spectrum: 112870
VSDLAATAYK, N2S
MVH=49.8843
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4−H2O
b4
b5−H2O
y4
b5
y5
b6
y6−H2O
y6
b7−NH3
b7−H2O
b7
b8
y7
b9−H2O
b9
y8
y9−H2O
y9

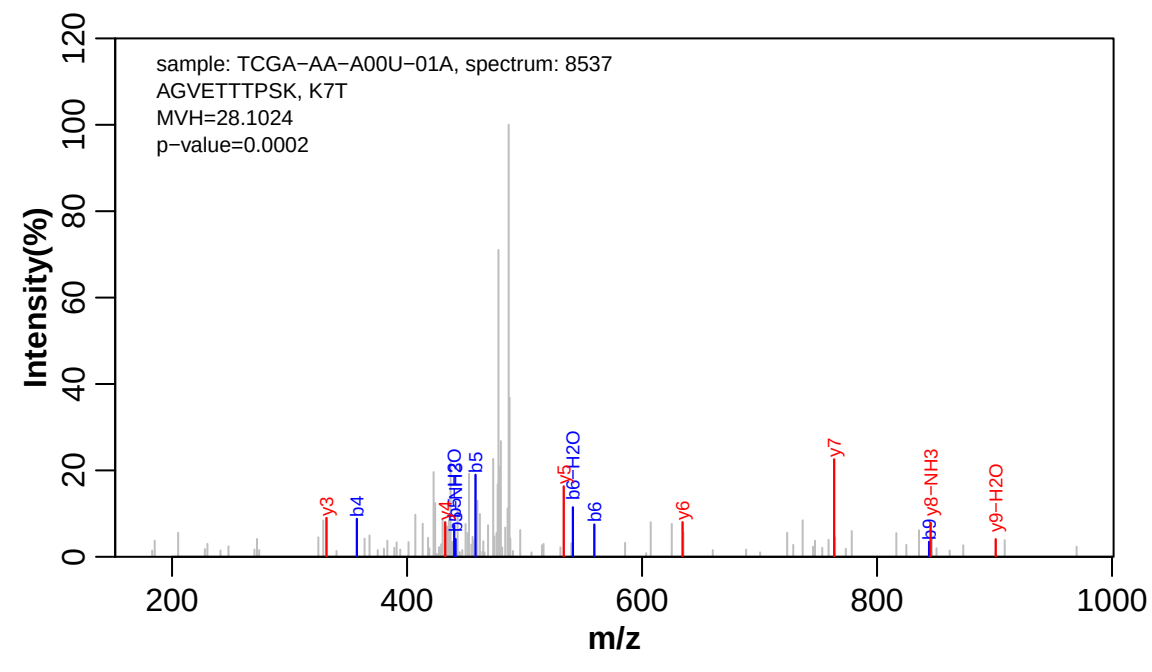

sample: TCGA−AA−A00O−01A, spectrum: 35370
VWQTVSPVESR, G10S
MVH=39.9701
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
y5
b5−NH3
b5−H2O
b5
b6
y7
y8
y9
y6

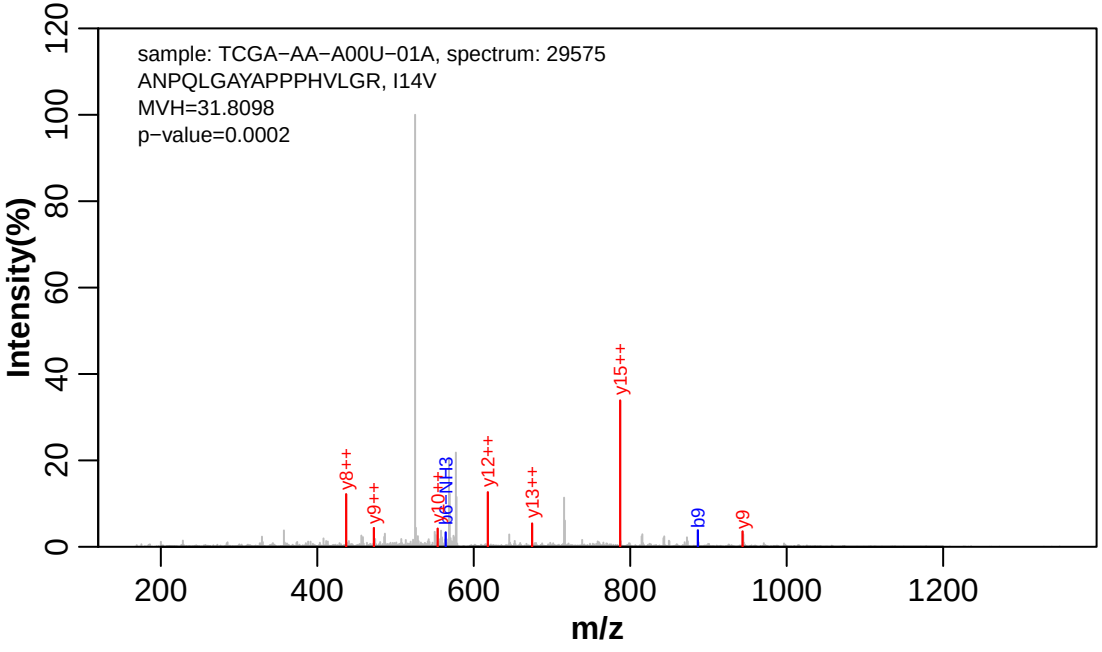

sample: TCGA−AA−A00O−01A, spectrum: 68598
YVSLLYTNYEAGK, I2V
MVH=49.8006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4−H2O
b4
b5−H2O
b5
y5
y6
b6−H2O
b6
y7
b7−NH3
b7
y8−NH3
y8
b8
y9−H2O
y9
b9−NH3
y10
y11
b10
b11
b12−H2O
b12

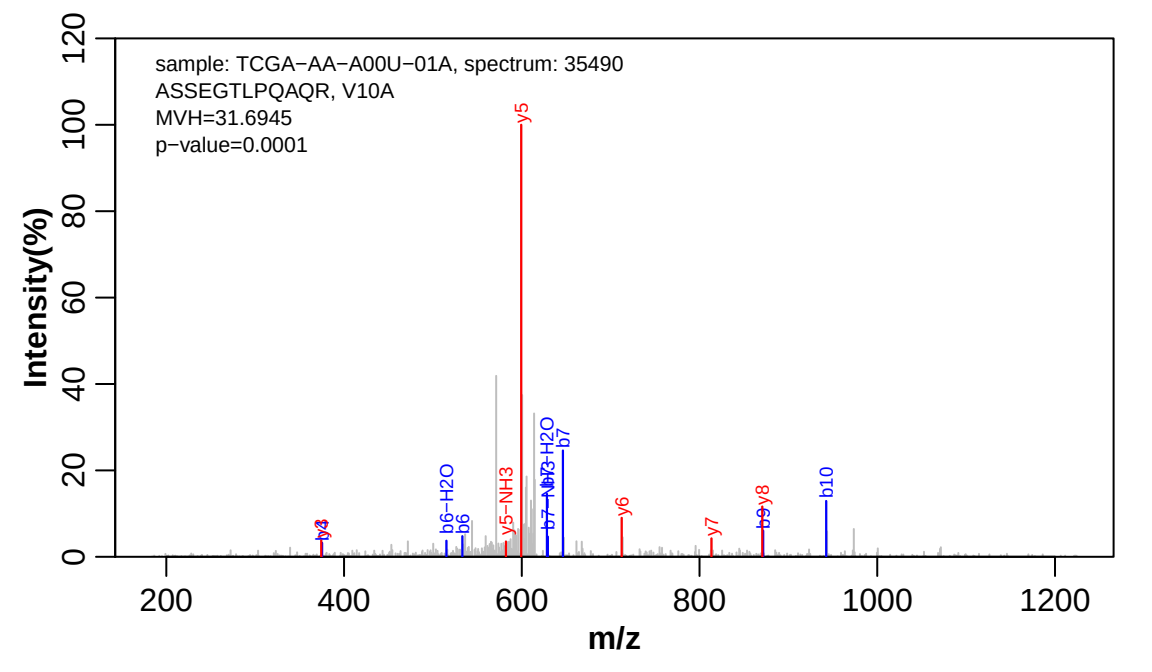

sample: TCGA−AA−A00O−01A, spectrum: 58528
YVSLLYTNYEAGKDDYVK, I2V
MVH=57.6775
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b3
y3
y4
b5−H2O
b5
y5−NH3
y5
y8
y8−H2O
b8−NH3
y9−H2O
y9
b9
y10−H2O
y10
b10−NH3
b10
y11
b12−H2O
y12
y12−NH3
b13
y13
b14
y14−NH3
y14
b15
b16−NH3
b16
b17

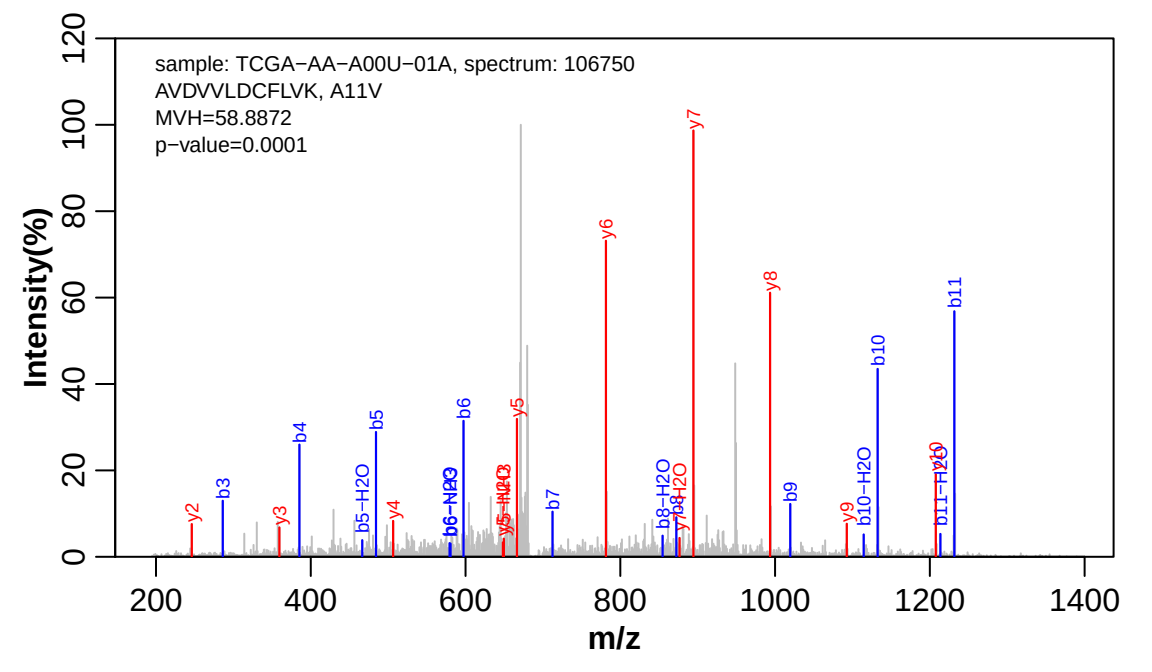

sample: TCGA−AA−A00U−01A, spectrum: 56466
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=59.3905
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b28++
b28++−H2O
b27++−H2O
b26++
b20++
b9
b8
b9++−H2O
b7
b6
b5
y6
y5
y4
b21++
y11
y21++−H2O

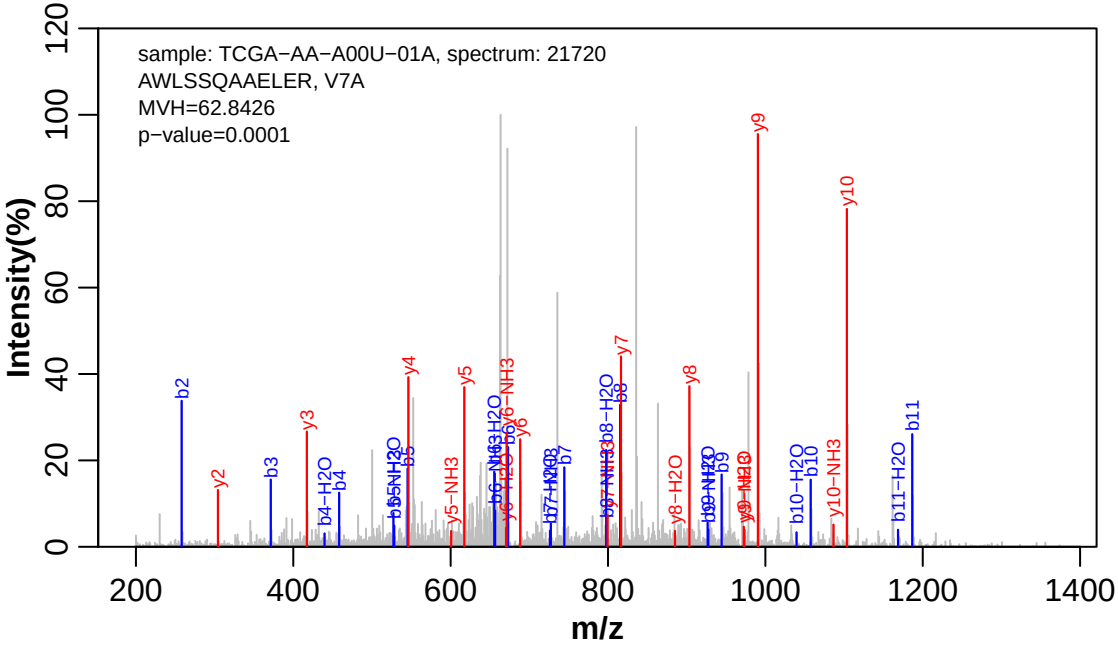

sample: TCGA−AA−A00U−01A, spectrum: 49090
AAPSVTLFPPSSEELQANK, T2A
MVH=60.3294
p−value=0.0001
y11
y12
y14
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

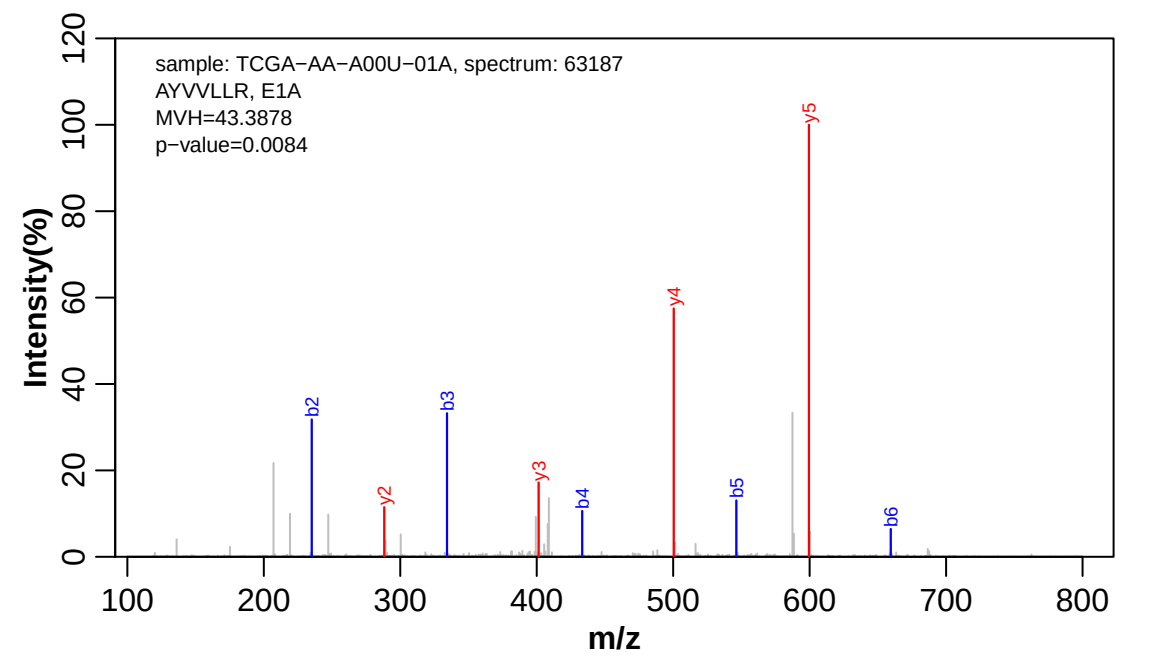

sample: TCGA−AA−A00U−01A, spectrum: 8537
AGVETTTPSK, K7T
MVH=28.1024
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y3
b4
y4
b5
b5−NH3
b5−H2O
y5
b6−H2O
b6
y6
y7
b9
y8−NH3
y9−H2O

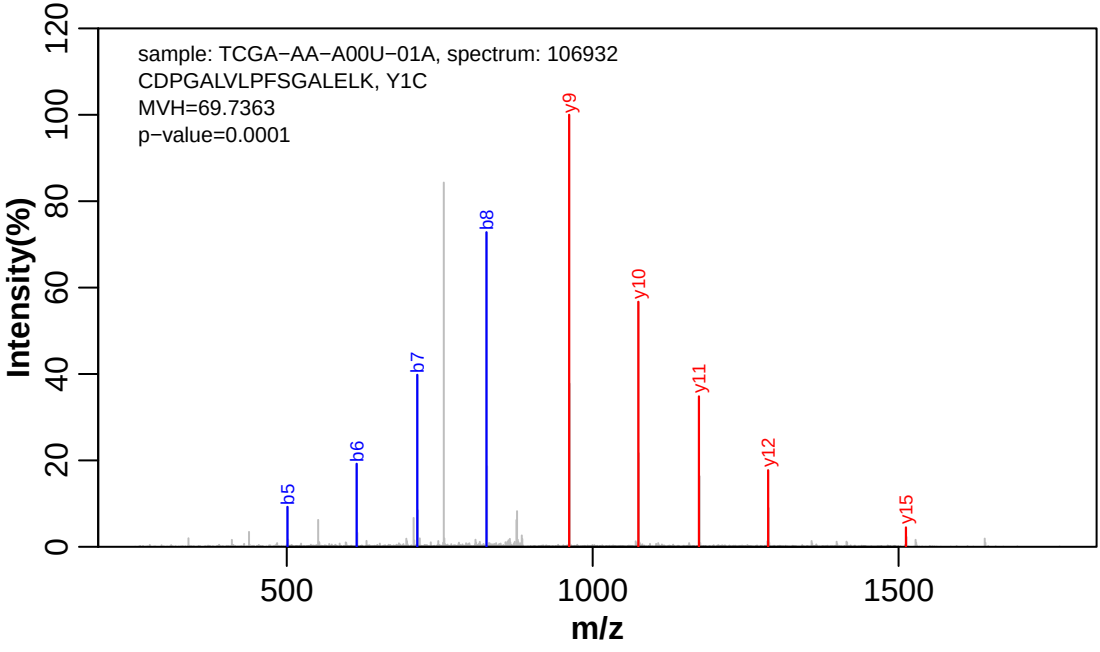

sample: TCGA−AA−A00U−01A, spectrum: 29575
ANPQLGAYAPPPHVLGR, I14V
MVH=31.8098
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y8++
y9++
y10++
b8−NH3
y12++
y13++
y15++
b9
y9

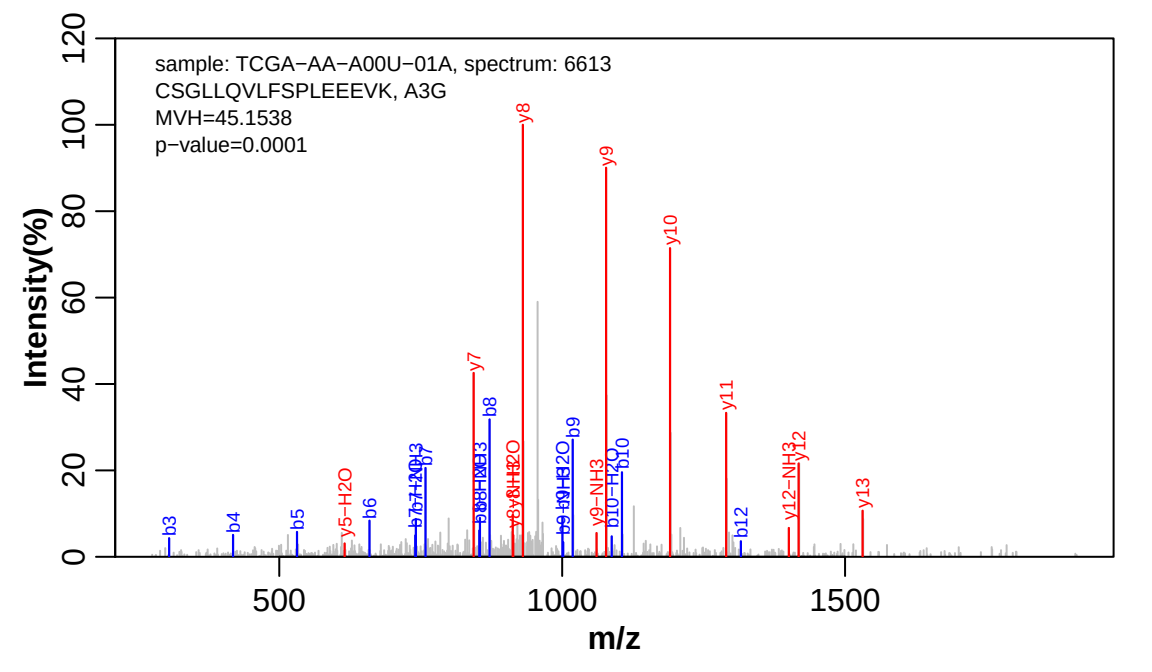

sample: TCGA−AA−A00U−01A, spectrum: 35490
ASSEGTLPQAQR, V10A
MVH=31.6945
p−value=0.0001
Intensity(%)
m/z
y5
b6−H2O
b6
y5−NH3
b7−H2O
b7
y6
y7
y8
b10

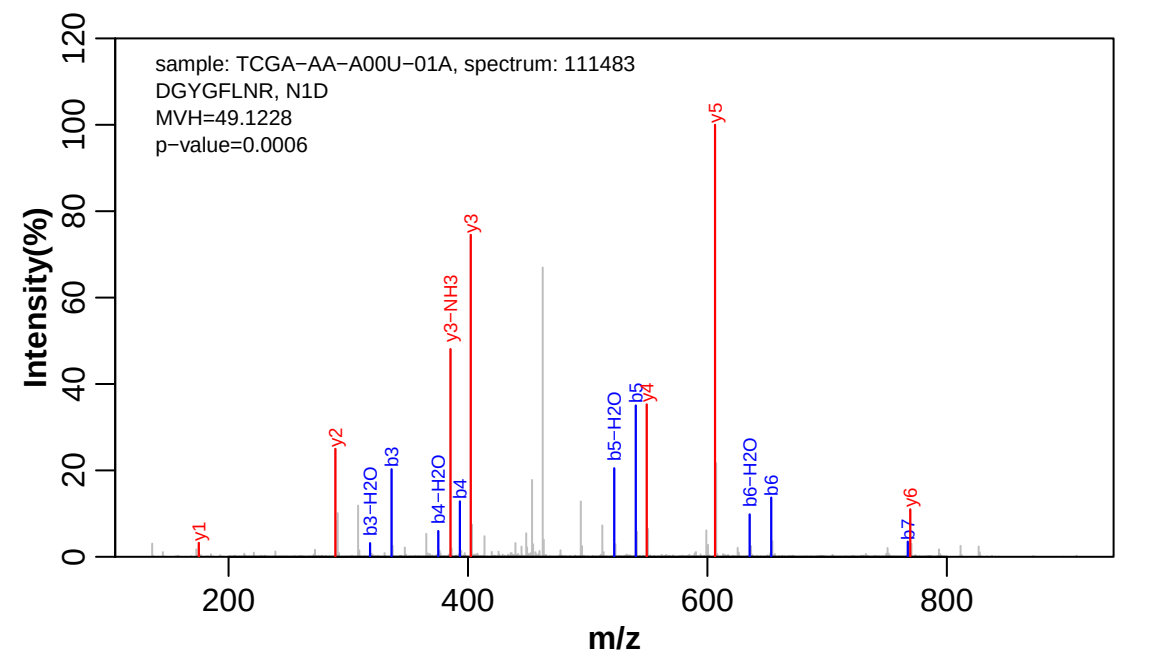

sample: TCGA−AA−A00U−01A, spectrum: 106750
AVDVVLDCFLVK, A11V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b5−H2O
b5
y4
b6−NH3
b6
y5−NH3
y5
b7
y6
b8−H2O
y7−H2O
y7
y8
b9
y9
b10−H2O
b10
b11−H2O
b11

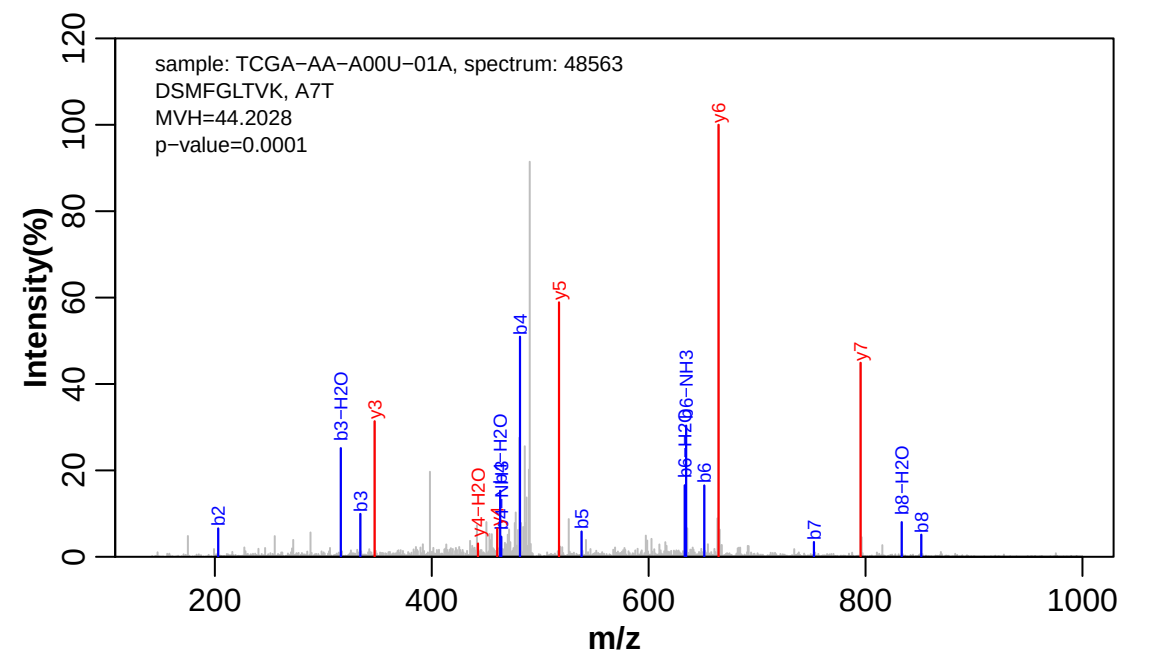

sample: TCGA−AA−A00U−01A, spectrum: 21720
AWLSSQAAELER, V7A
MVH=62.8426
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y5−NH3
b6−NH3
b6−H2O
y6
y6−NH3
b7
b8−H2O
b8
y7
y8
y8−H2O
b9
b10−H2O
b10
y9
y10
y10−NH3
b11
b11−H2O

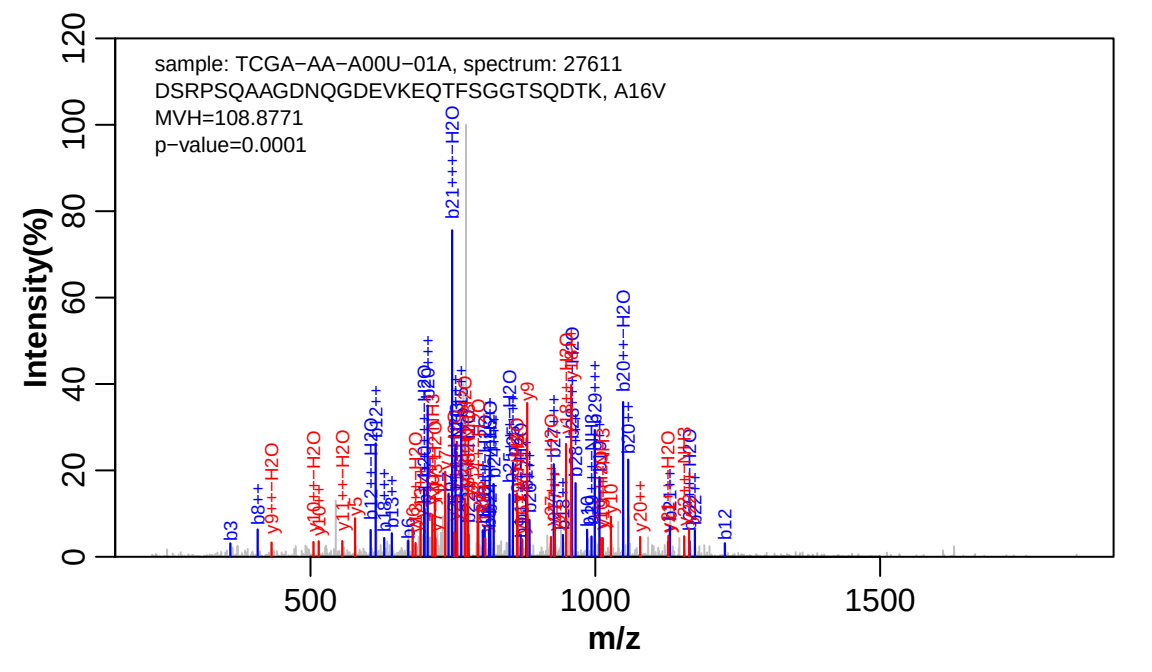

sample: TCGA−AA−A00U−01A, spectrum: 63187
AYVVLLR, E1A
MVH=43.3878
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
y2
b3
y3
b4
y4
b5
y5
b6

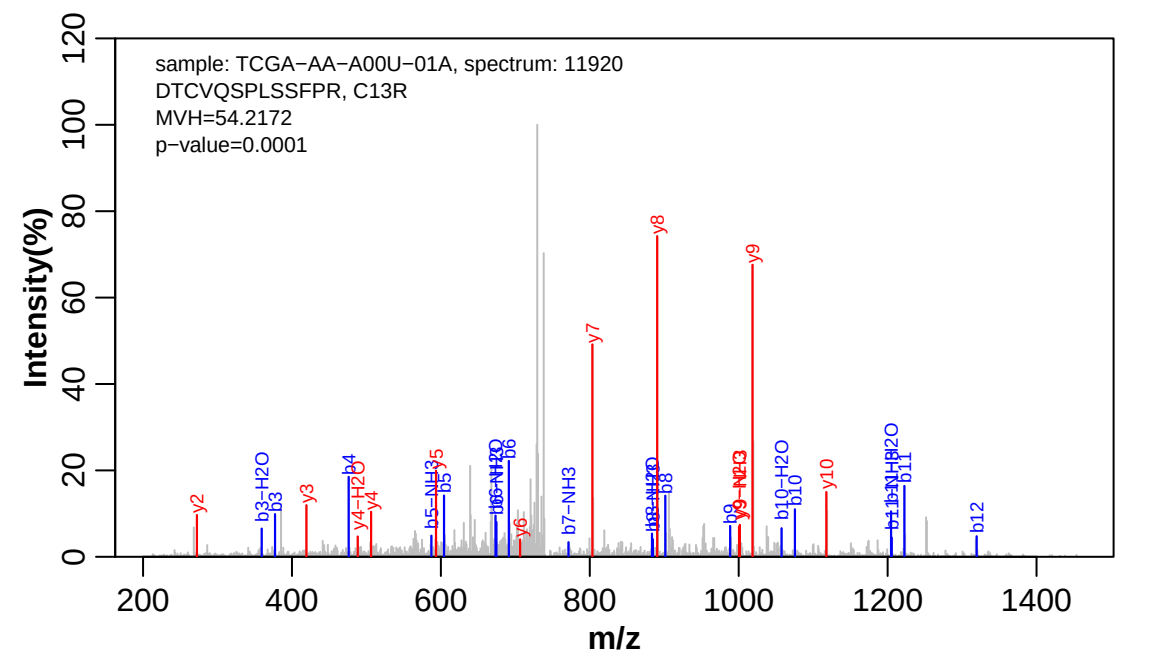

sample: TCGA−AA−A00U−01A, spectrum: 106932
CDPGALVLPFSGALELK, Y1C
MVH=69.7363
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

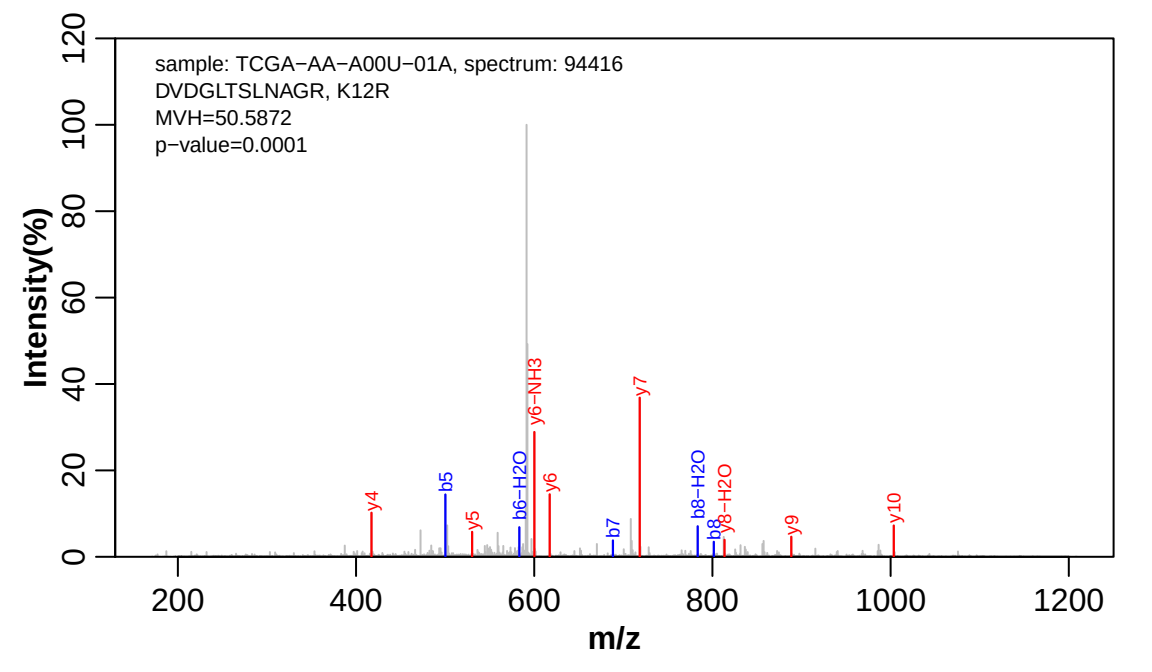

sample: TCGA−AA−A00U−01A, spectrum: 6613
CSGLLQVLFSPLEEEVK, A3G
MVH=45.1538
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b4
b5
y5−H2O
b6
b7
b8
y7
y8
y8−NH3
y8−H2O
b9
y9−NH3
b10−H2O
b10
y9
y10
y11
b12
y12
y12−NH3
y13

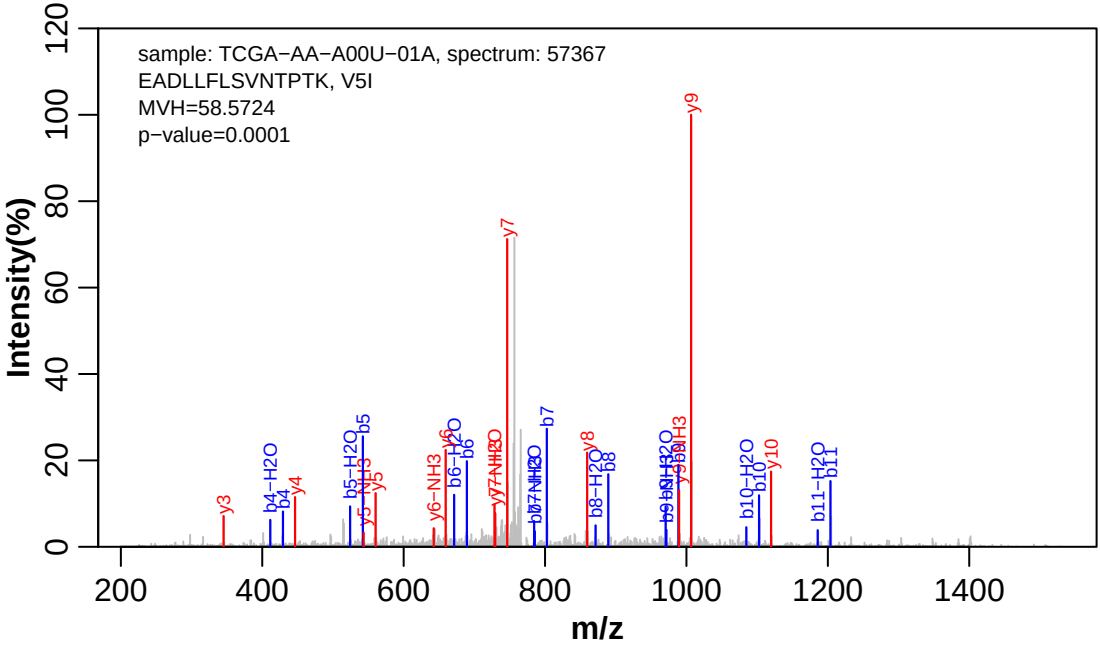

sample: TCGA−AA−A00U−01A, spectrum: 111483
DGYGFLNR, N1D
MVH=49.1228
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

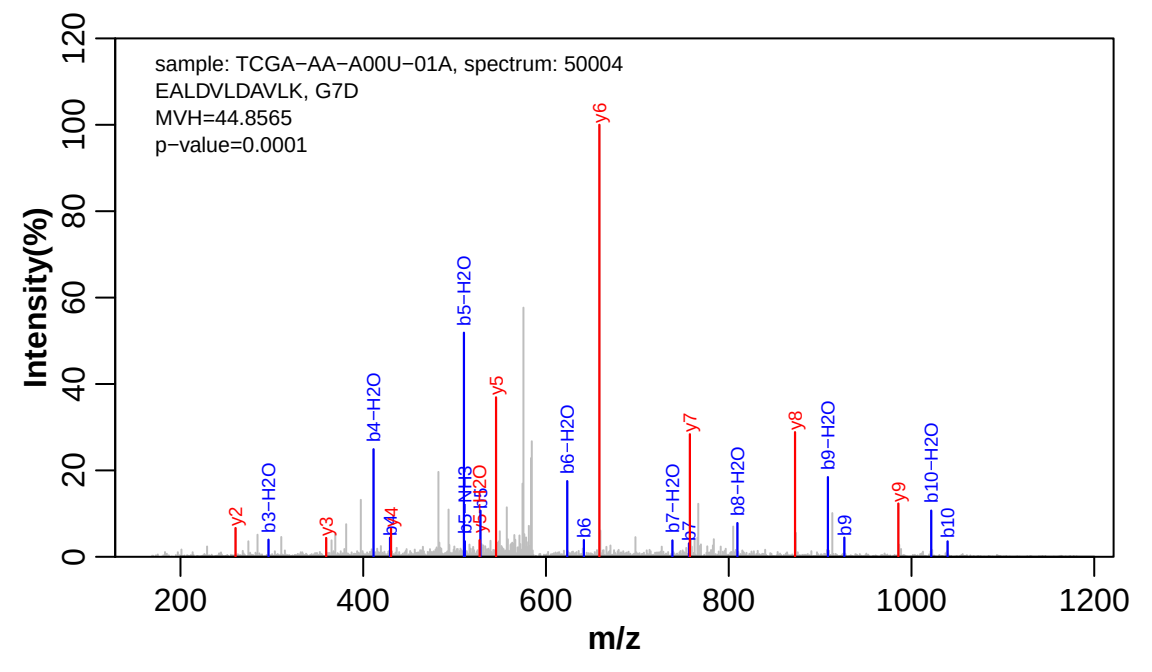

sample: TCGA−AA−A00U−01A, spectrum: 48563
DSMFGLTVK, A7T
MVH=44.2028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y3
y4−H2O
b4−H2O
b4
y5
b5
b6−H2O
b6−NH3
b6
y6
b7
y7
b8−H2O
b8

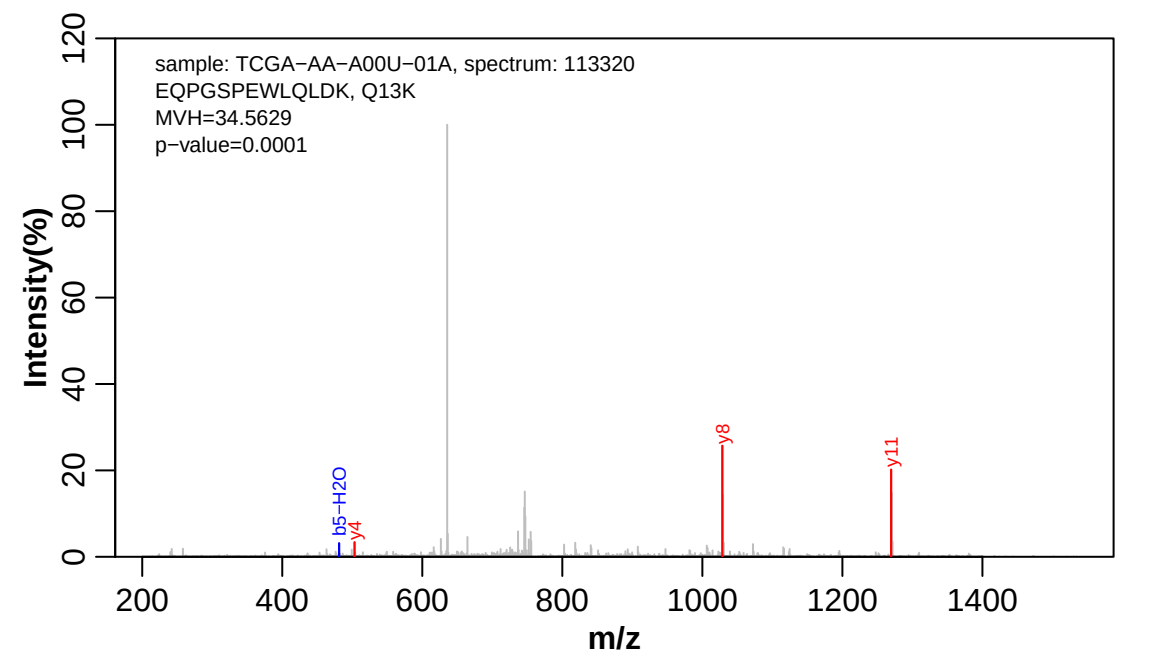

sample: TCGA−AA−A00U−01A, spectrum: 27611
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=108.8771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b21+++−H2O
b20++−H2O
b20++
y20++
b12
b3
b8++
y9++−H2O
y10++−H2O
y11++−H2O
y5
b12++−H2O
b12++
b13++
y9

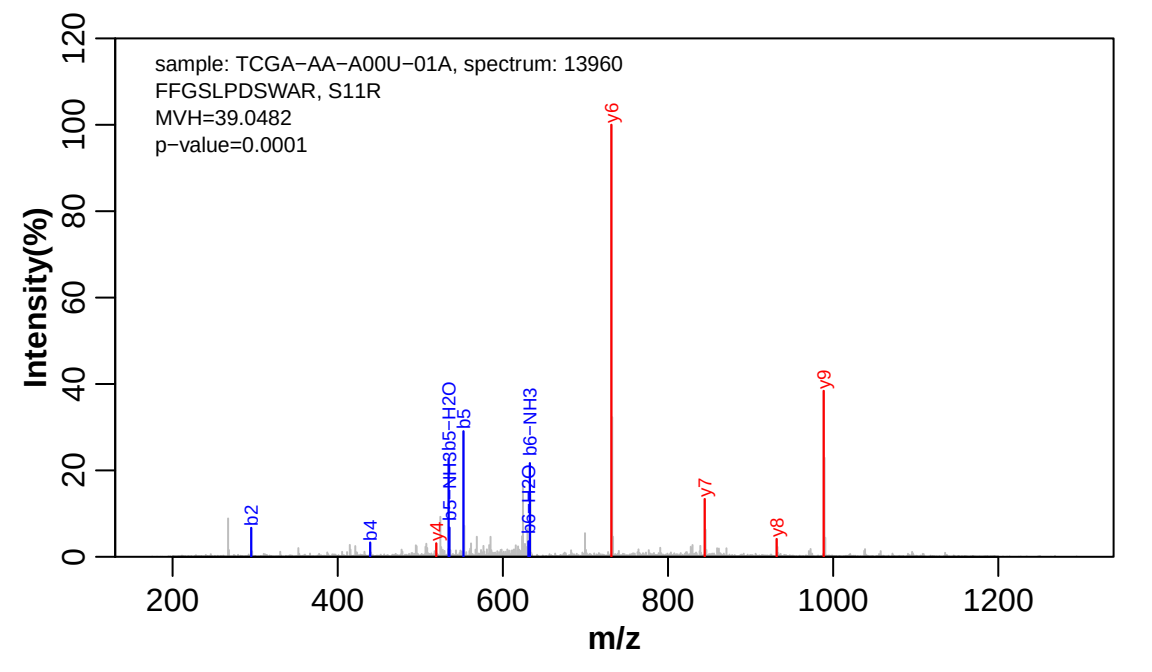

sample: TCGA−AA−A00U−01A, spectrum: 11920
DTCVQSPLSSFPR, C13R
MVH=54.2172
p−value=0.0001
Intensity(%)
m/z
y2
b3−H2O
b3
y3
b4
y4−H2O
y4
b5−NH3
b5
y5
b6−NH3
b6
y6
b7−NH3
y7
b8−NH3
b8
y8
b9
y9−NH3
y9
b10−H2O
b10
y10
b11−NH3
b11−H2O
b11
b12

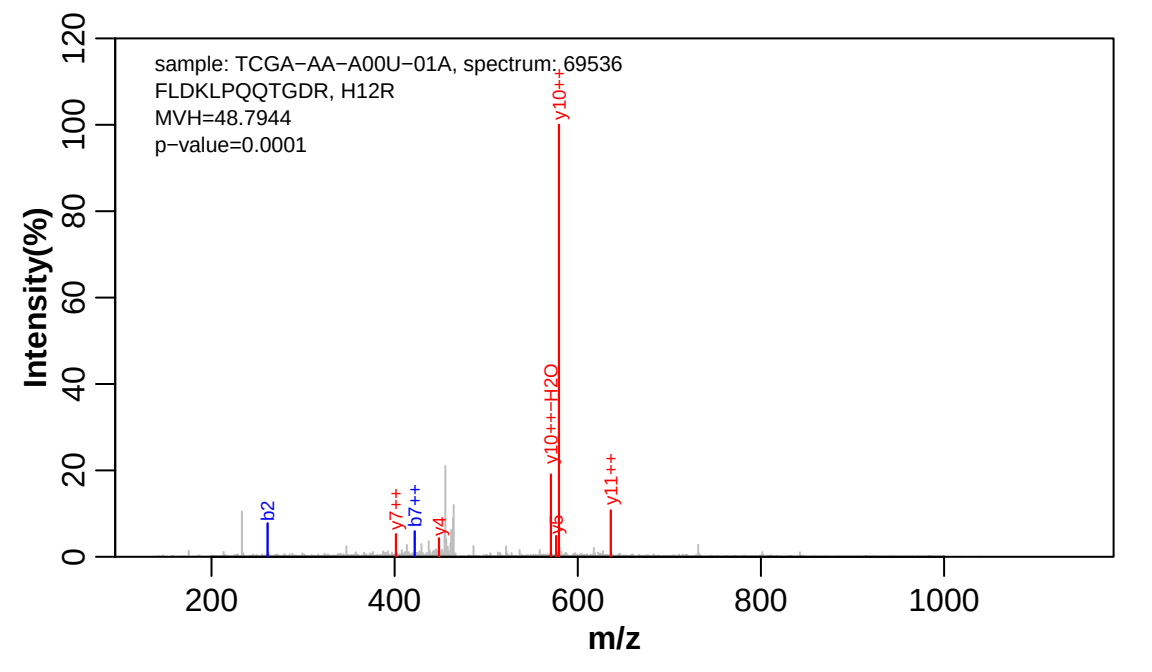

sample: TCGA−AA−A00U−01A, spectrum: 94416
DVDGLTSLNAGR, K12R
MVH=50.5872
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y4
b5
y5
b6−H2O
y6−NH3
y6
b7
y7
b8−H2O
b8
y8−H2O
y9
y10

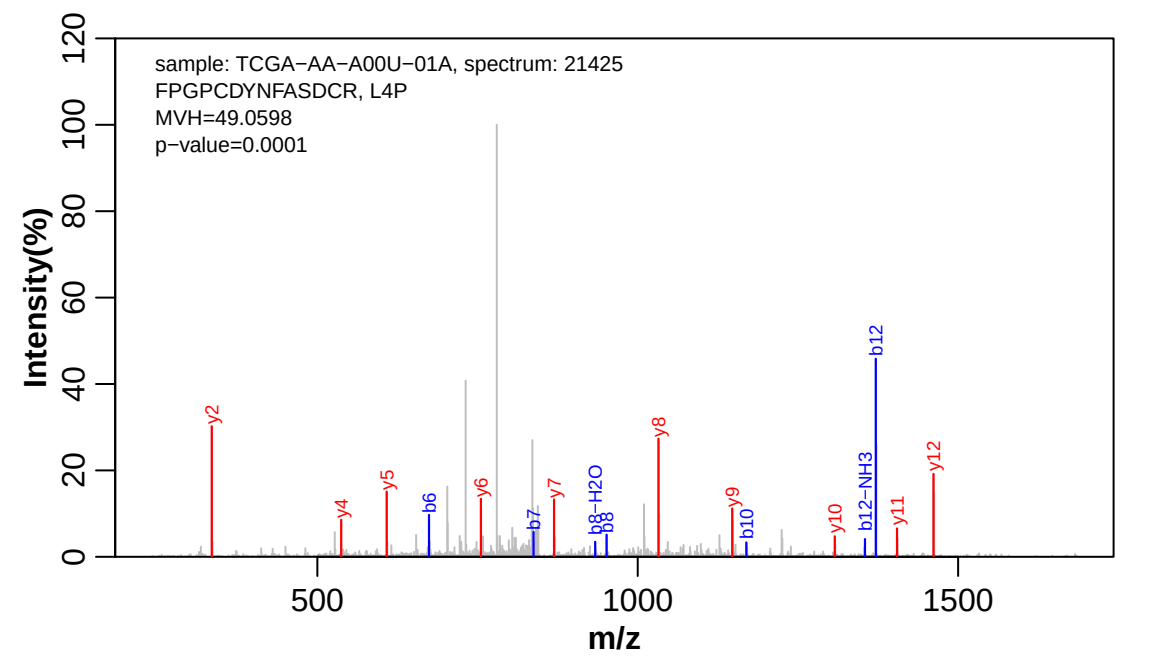

sample: TCGA−AA−A00U−01A, spectrum: 57367
EADLLFLSVNTPTK, V5I
MVH=58.5724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
y6−NH3
b6−H2O
b6
y7
y7−NH3
b7
y8
b8−H2O
b8
y9
y9−NH3
b10−H2O
b10
y10
b11−H2O
b11

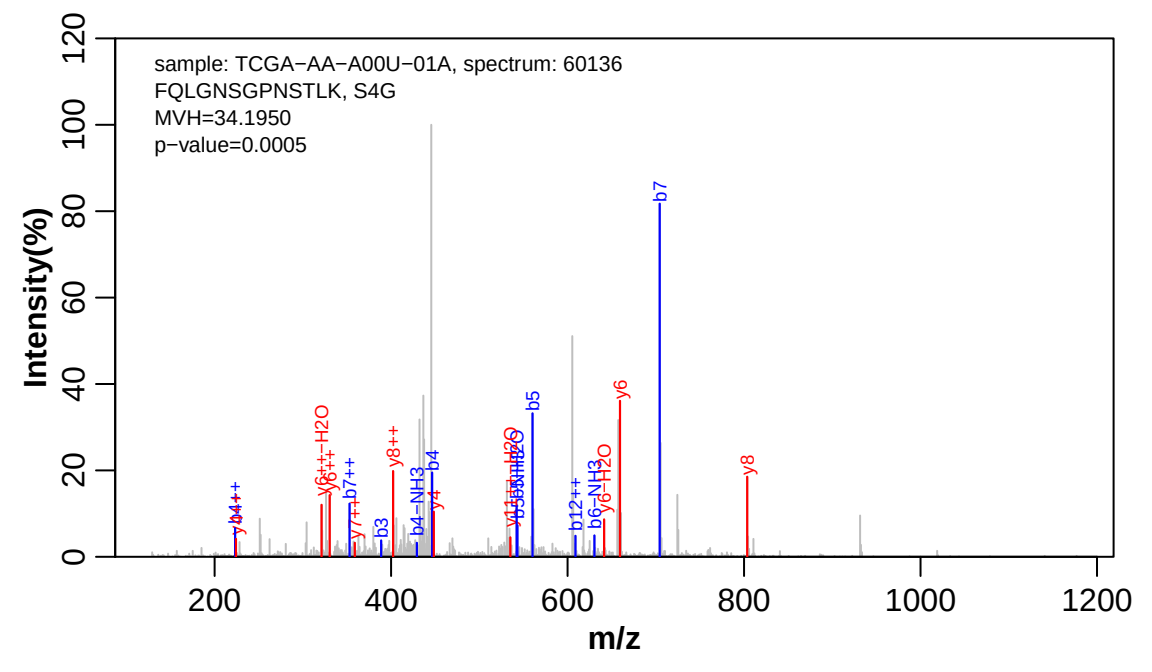

sample: TCGA−AA−A00U−01A, spectrum: 50004
EALDVLDAVLK, G7D
MVH=44.8565
p−value=0.0001
Intensity(%)
m/z
y2
b3−H2O
y3
b4−H2O
b4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
y7
b7−H2O
b7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

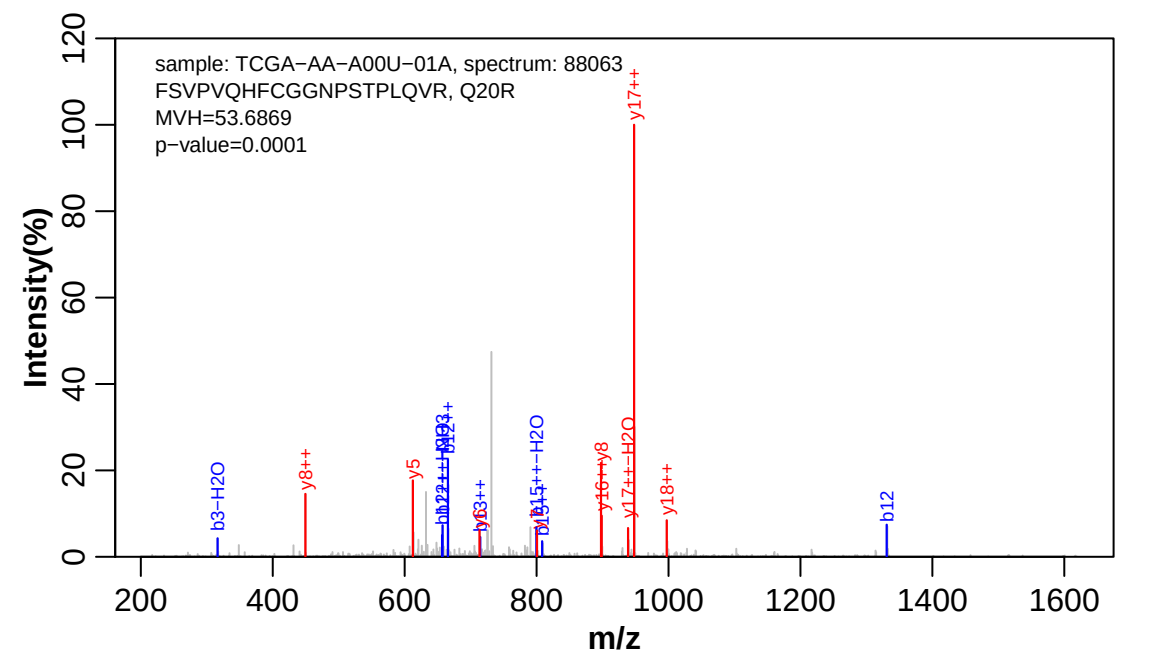

sample: TCGA−AA−A00U−01A, spectrum: 113320
EQPGSPEWLQLDK, Q13K
MVH=34.5629
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

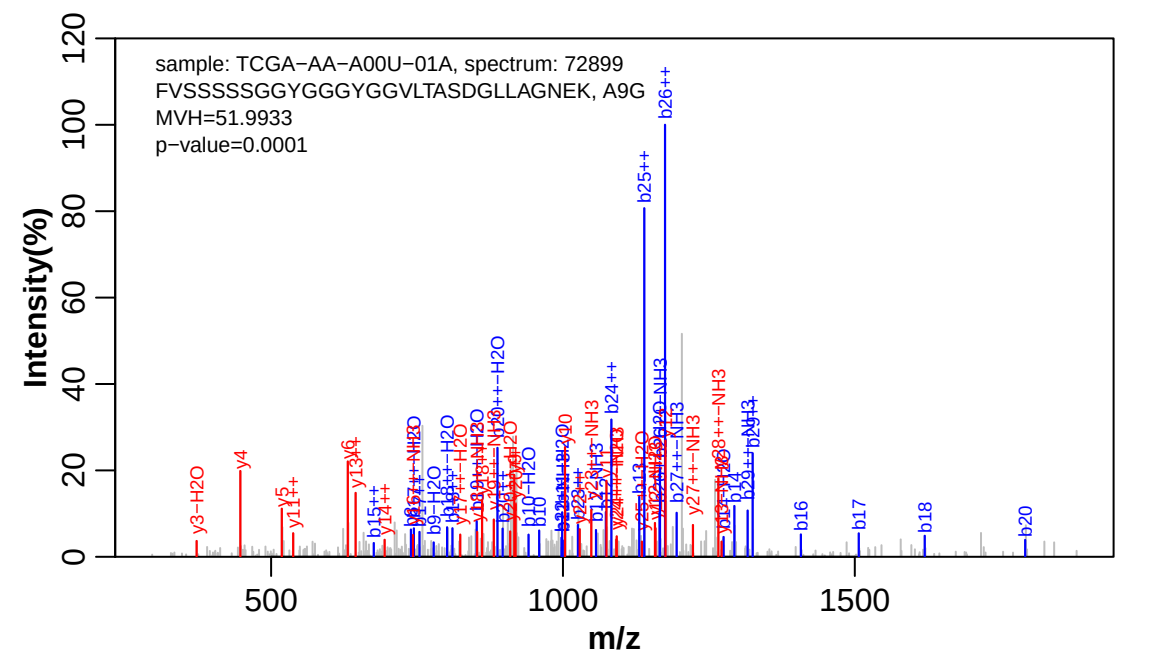

sample: TCGA−AA−A00U−01A, spectrum: 13960
FFGSLPDSWAR, S11R
MVH=39.0482
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

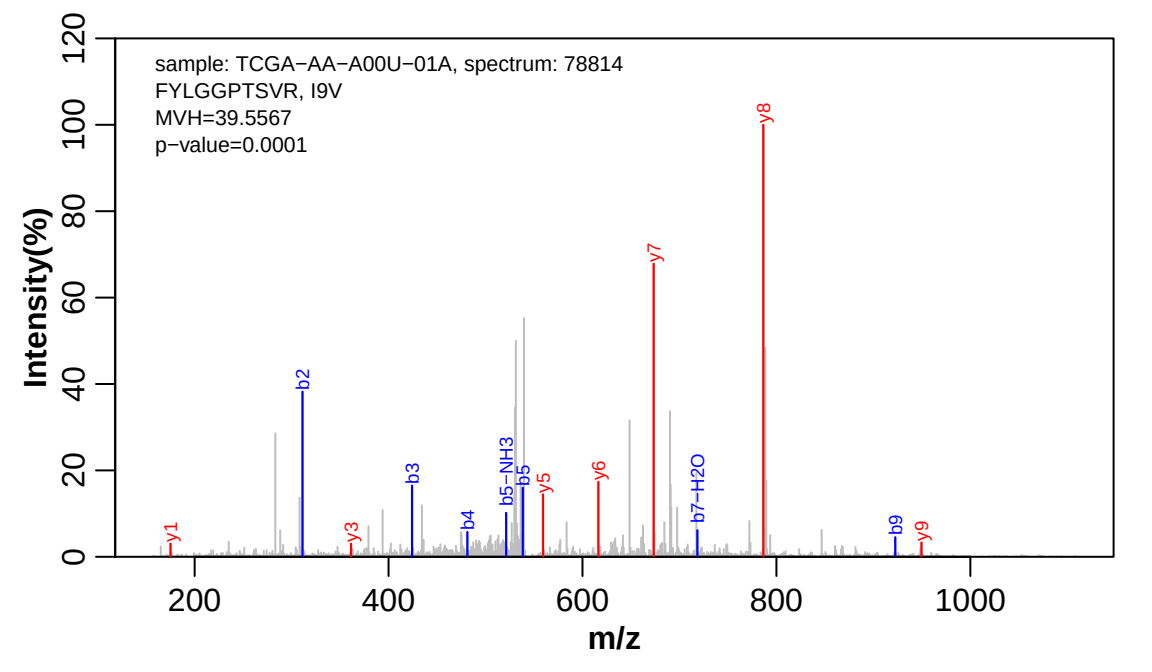

sample: TCGA−AA−A00U−01A, spectrum: 69536
FLDKLPQQTGDR, H12R
MVH=48.7944
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y10++
y10++−H2O
y11++
b2
y7++
b7++
y4
y5

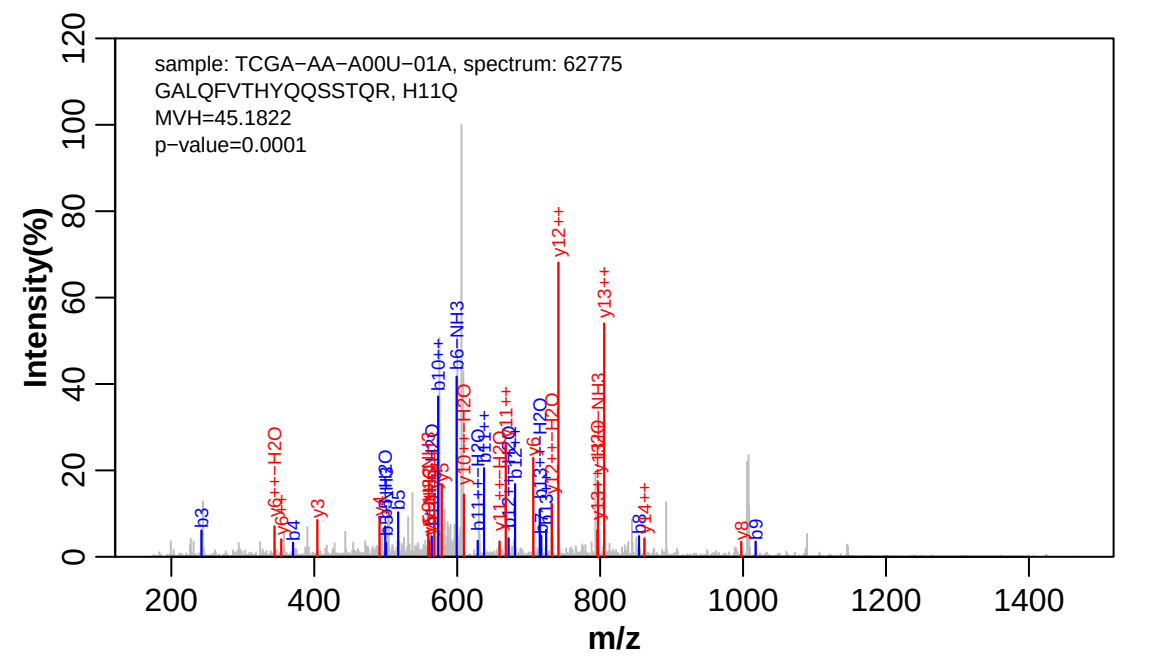

sample: TCGA−AA−A00U−01A, spectrum: 21425
FPGPCDYNFASDCR, L4P
MVH=49.0598
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y4
y5
b6
y6
b7
y7
b8−H2O
b8
y8
y9
b10
y10
b12−NH3
b12
y11
y12

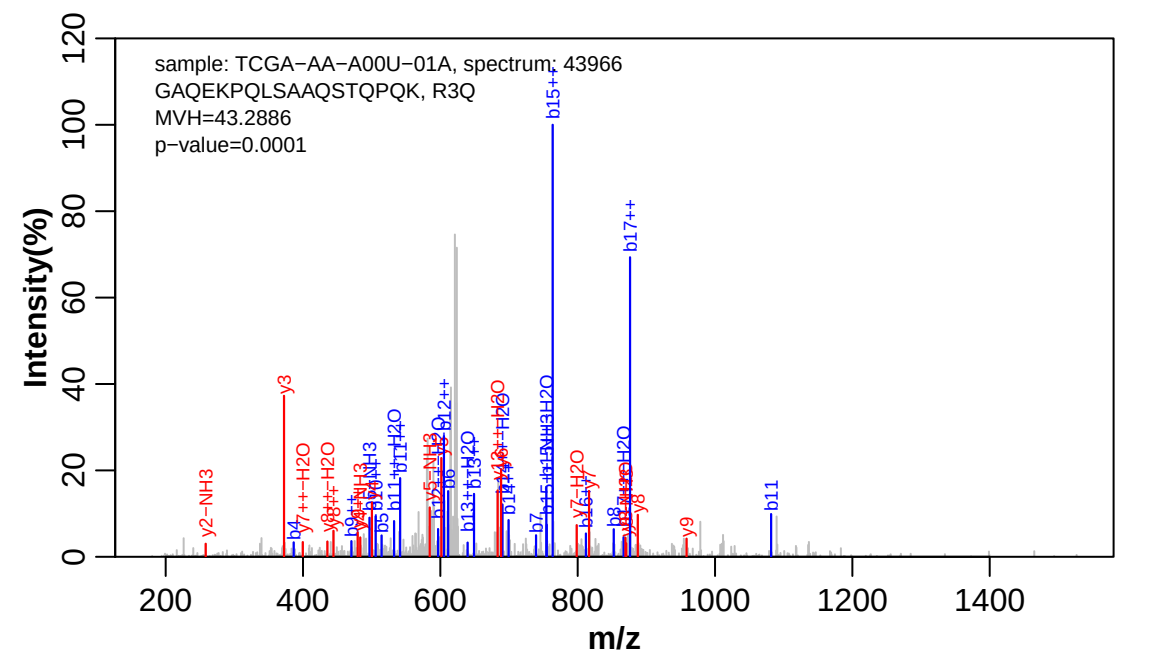

sample: TCGA−AA−A00U−01A, spectrum: 60136
FQLGNSGPNSTLK, S4G
MVH=34.1950
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b7
y6
b5
y8
y8++
b4
b4−NH3
y4
b3
y7++
b7++
y6++−H2O
y6++
y4++
b12++
b6−NH3
y6−H2O

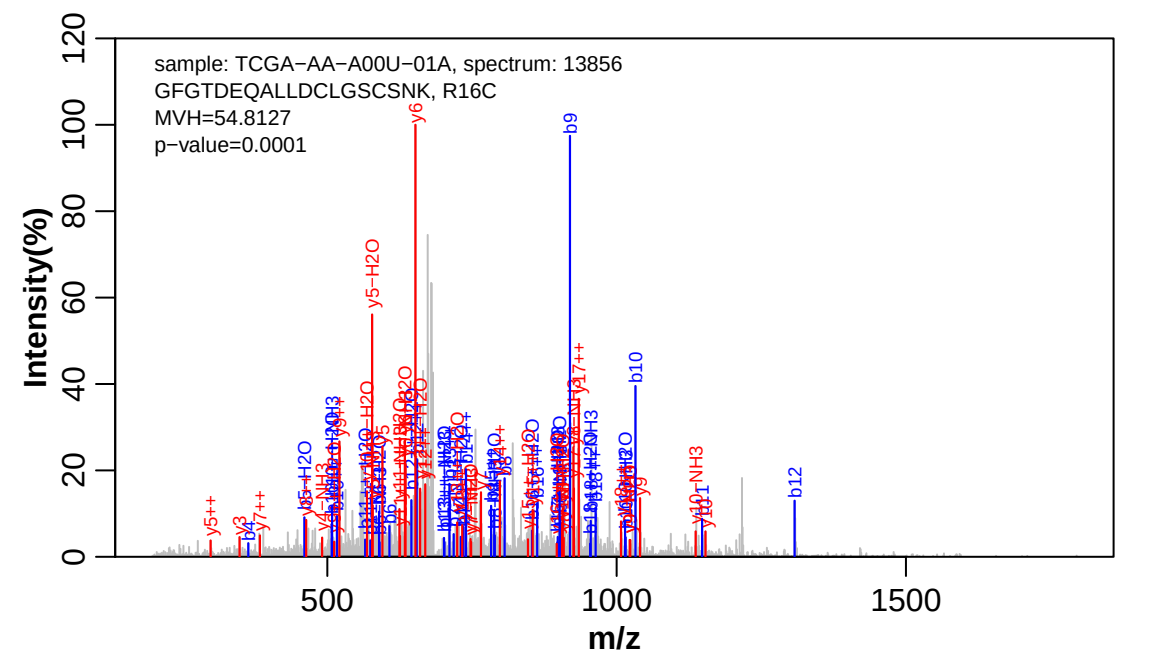

sample: TCGA−AA−A00U−01A, spectrum: 88063
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=53.6869
p−value=0.0001
Intensity(%)
m/z
b3−H2O
y8++
y5
y17++
y16++y8
y17++−H2O
y18++
b12
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

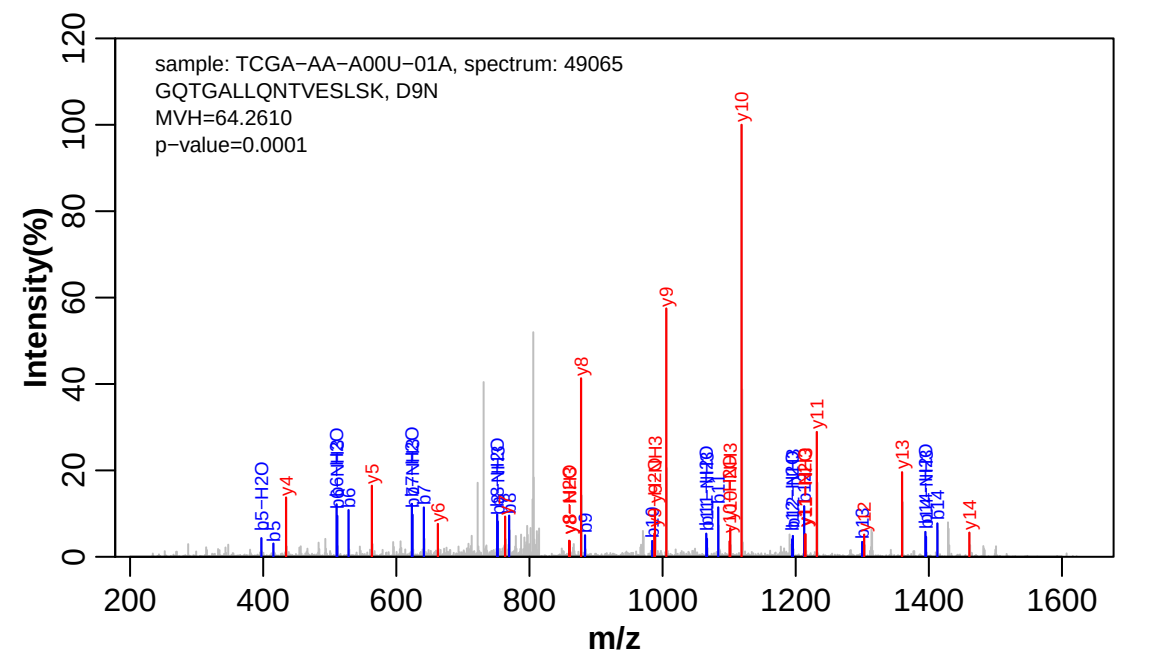

sample: TCGA−AA−A00U−01A, spectrum: 72899
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=51.9933
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3−H2O
y4
y5
y11++
y13++
y6
b15++
y14++
b26++
b25++
b24++
b16
b17
b18
b20

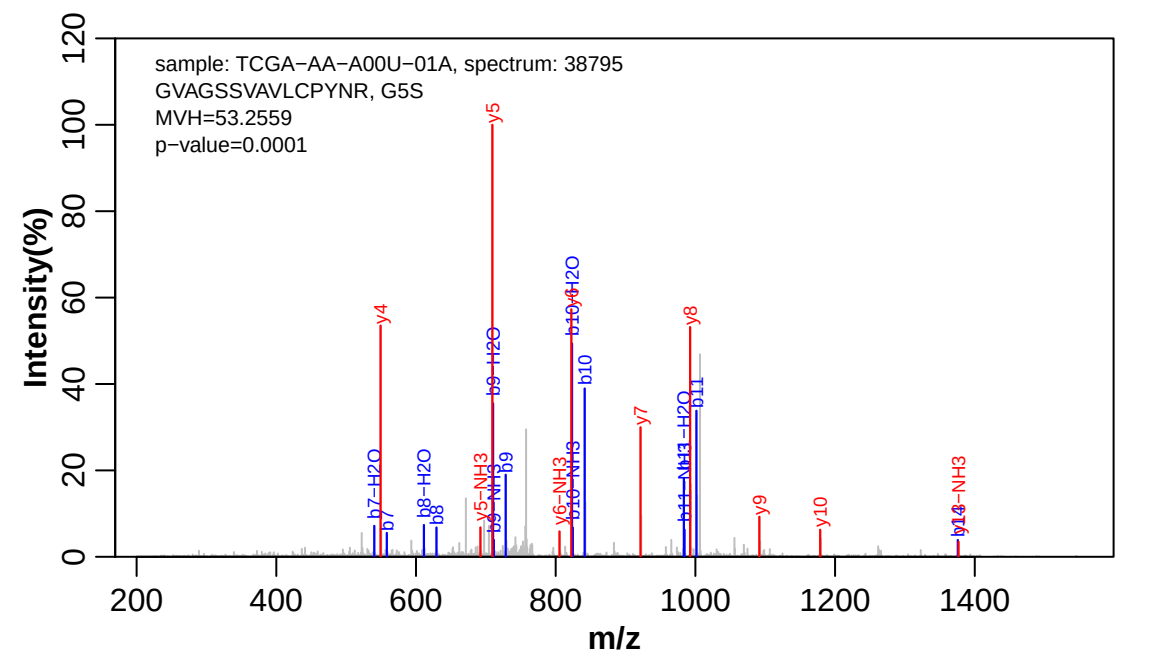

sample: TCGA−AA−A00U−01A, spectrum: 78814
FYLGGPTSVR, I9V
MVH=39.5567
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y3
b3
b4
b5−NH3
b5
y5
y6
y7
b7−H2O
y8
b9
y9

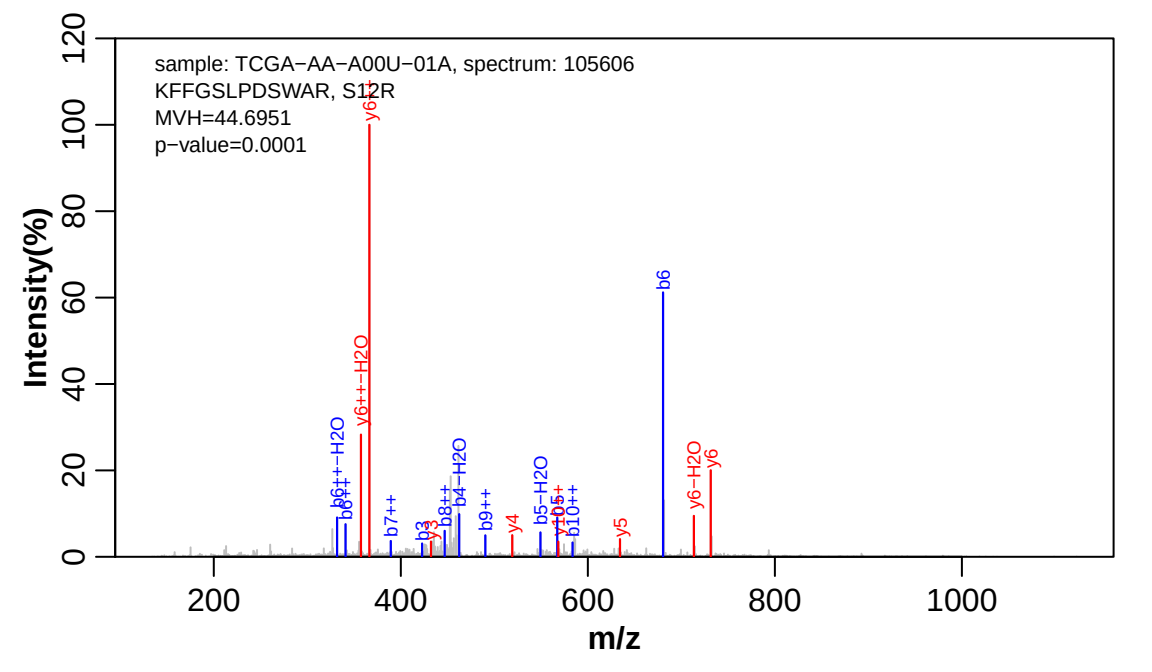

sample: TCGA−AA−A00U−01A, spectrum: 62775
GALQFVTHYQQSSTQR, H11Q
MVH=45.1822
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y6++−H2O
b4
y3
b5
b10++
b6−NH3
y5
y10++−H2O
y12++
y13++
y11++−H2O
b8
y4++
y8
b9

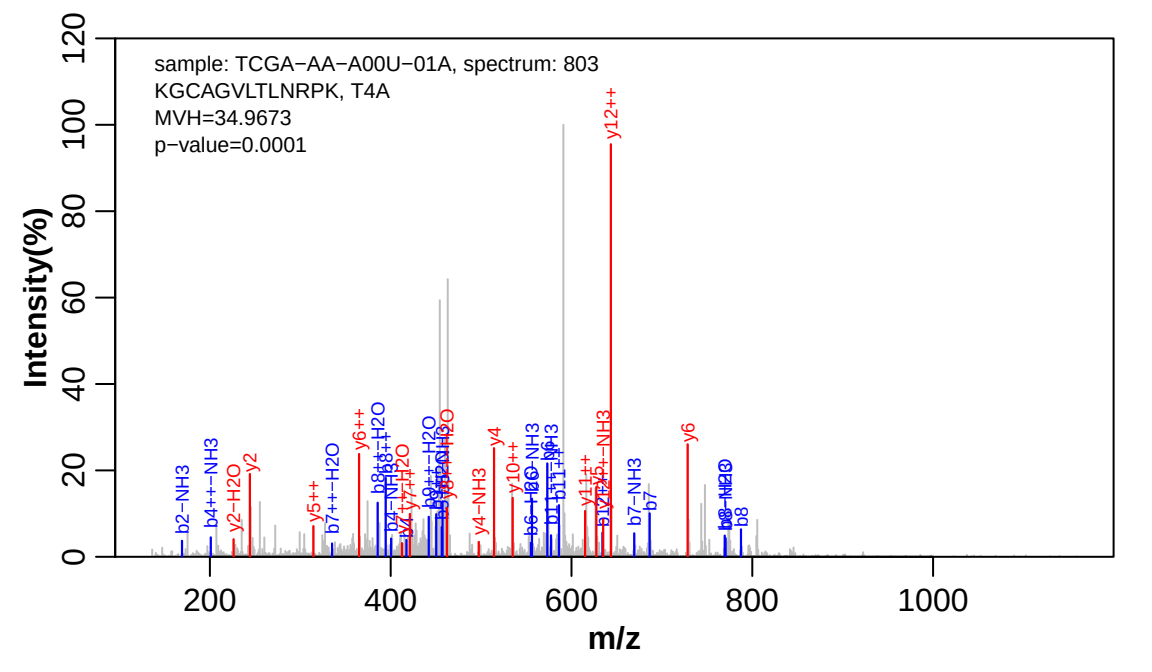

sample: TCGA−AA−A00U−01A, spectrum: 43966
GAQEKPQLSAAQSTQPQK, R3Q
MVH=43.2886
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b15++
b17++
y3
y2−NH3
b11
y9

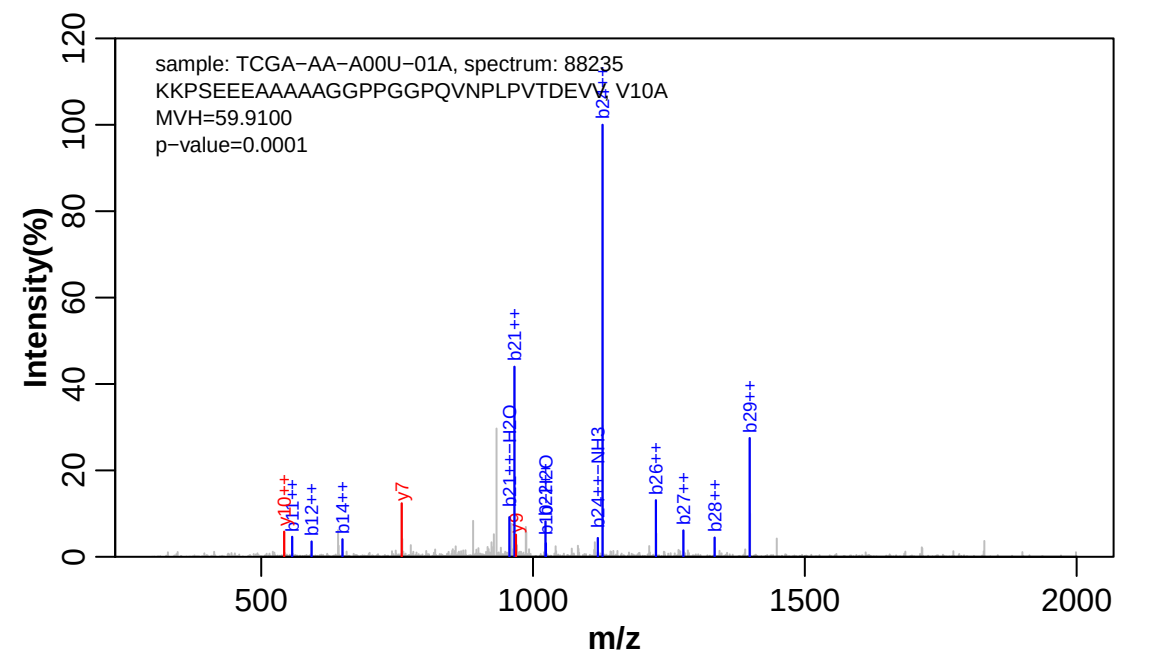

sample: TCGA−AA−A00U−01A, spectrum: 13856
GFGTDEQALLDCLGSCSNK, R16C
MVH=54.8127
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
b9
y5−H2O
b10
y7++
b5−H2O
y5++
b12
y10−NH3

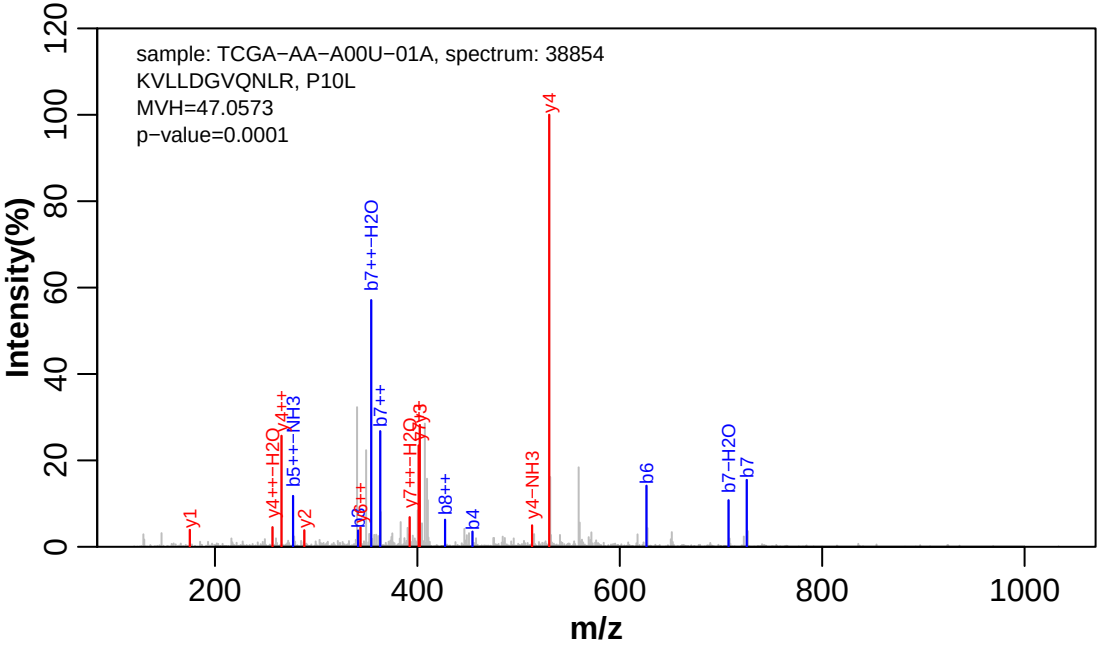

sample: TCGA−AA−A00U−01A, spectrum: 49065
GQTGALLQNTVESLSK, D9N
MVH=64.2610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y6
y4
b5−H2O
b5
b6
b9
y8−NH3
y9−H2O
y9−NH3
y10−H2O
y10−NH3
y11−H2O
y11−NH3
y12−H2O
y12−NH3
b12
b13
b14

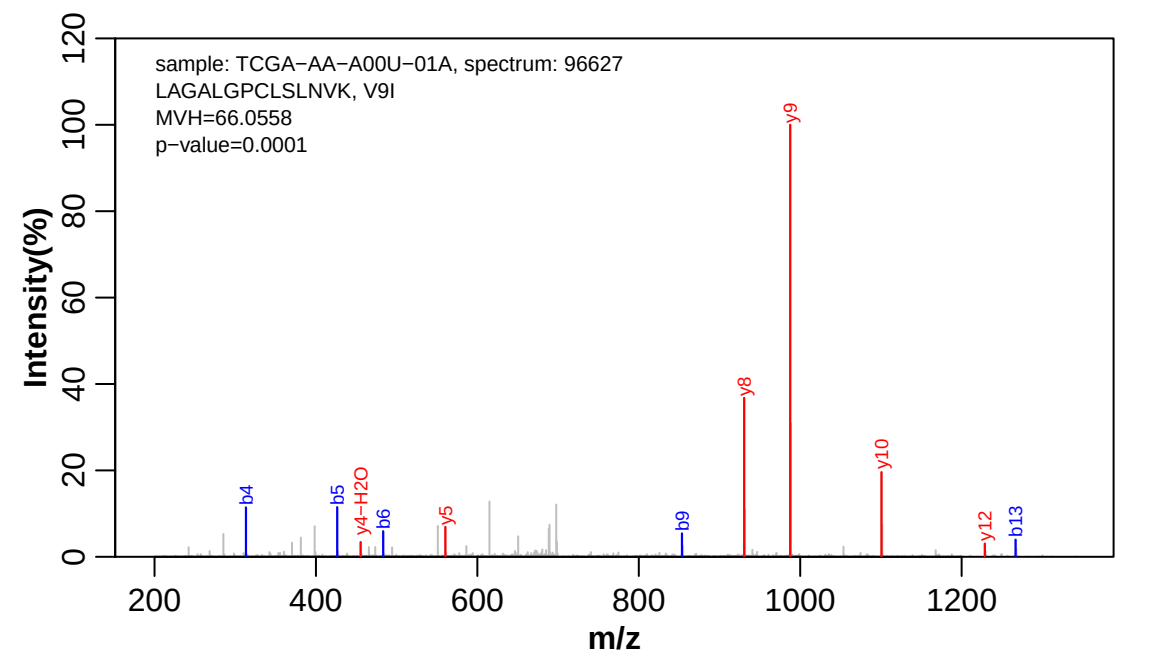

sample: TCGA−AA−A00U−01A, spectrum: 38795
GVAGSSVAVLCPYNR, G5S
MVH=53.2559
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b11−NH3−H2O
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y9
y10
y14−NH3

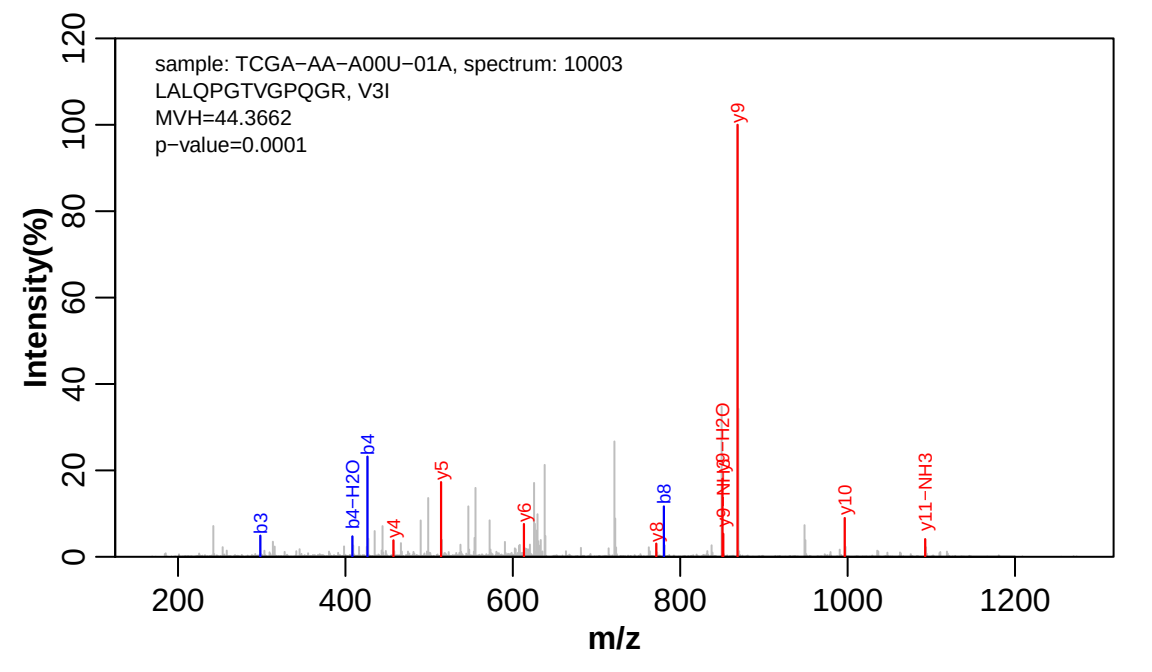

sample: TCGA−AA−A00U−01A, spectrum: 105606
KFFGSLPDSWAR, S12R
MVH=44.6951
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b7++
b3
y3
b8++
b4−H2O
b9++
y4
b5−H2O
y10+
b10++
y5
b6
y6−H2O
y6

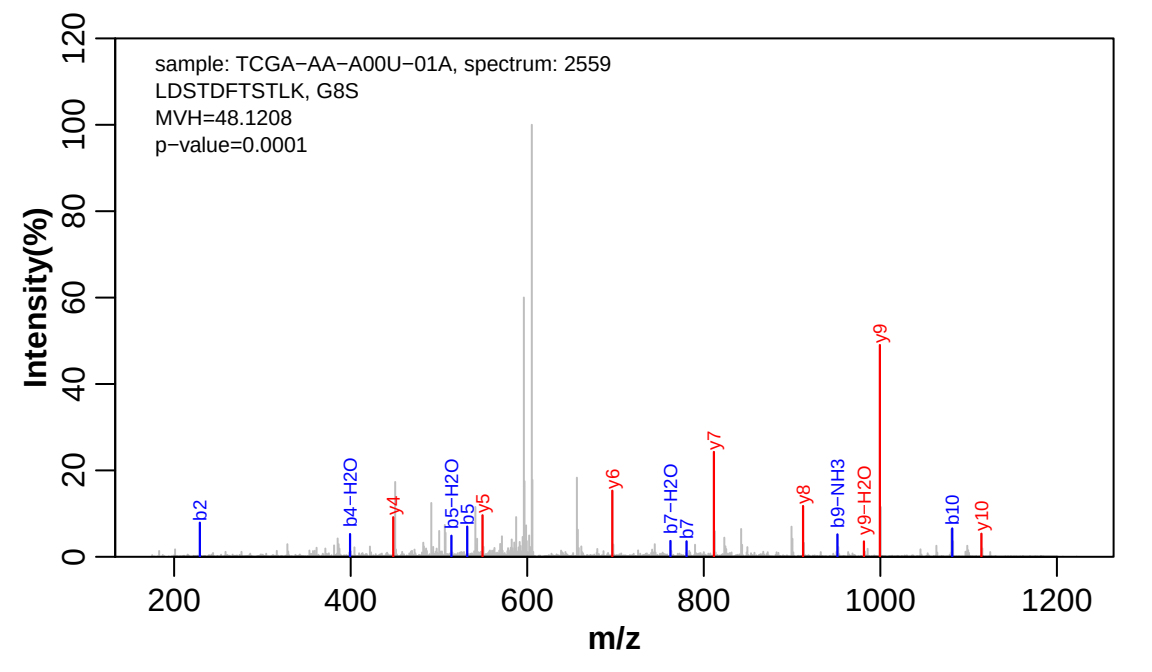

sample: TCGA−AA−A00U−01A, spectrum: 803
KGCAGVLTLNRPK, T4A
MVH=34.9673
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y12++
y6
y4
y6++
y10++
y5++
y4−NH3
b2−NH3
b4++−NH3
y2−H2O
y2
b7++−H2O
b7−NH3
b7
b8
y11++
y12++−NH3

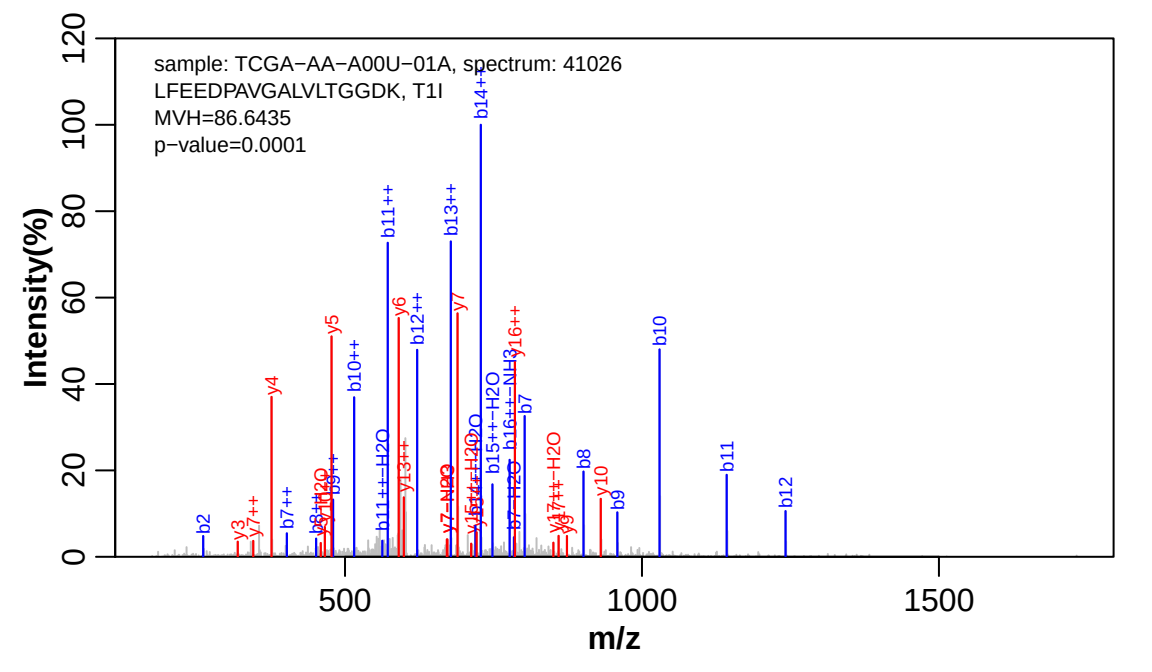

sample: TCGA−AA−A00U−01A, spectrum: 88235
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV V10A
MVH=59.9100
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−H2O
b24++−NH3
b26++
b29++
b27++
b28++
b12++
b14++
y7
y9
y10++
y11++

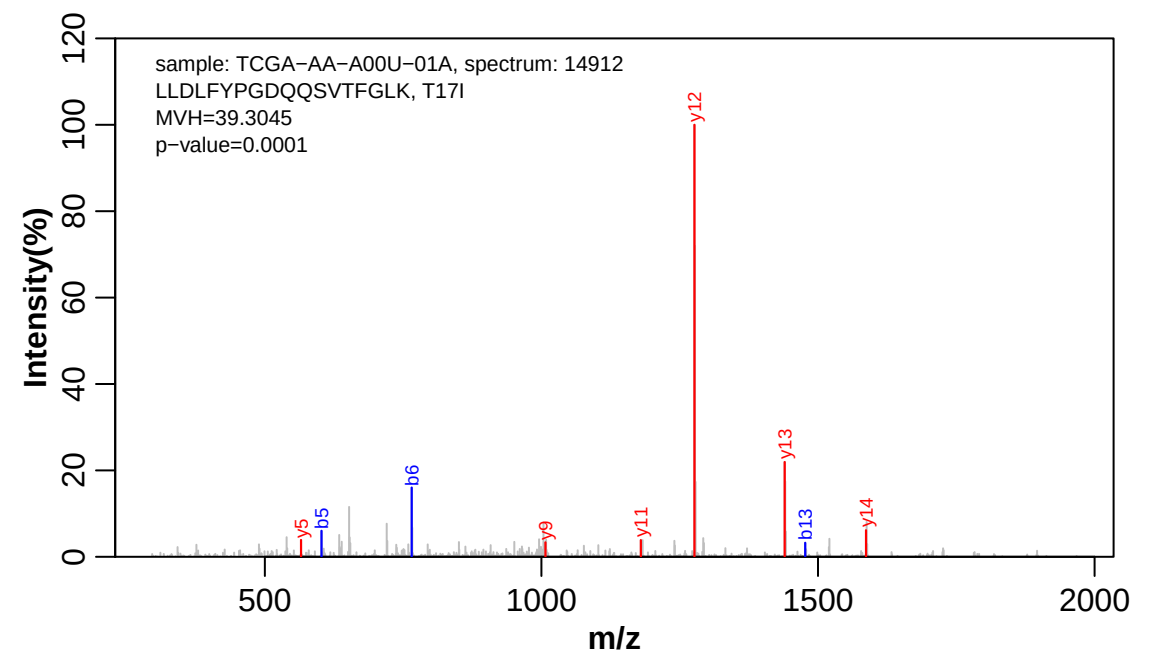

sample: TCGA−AA−A00U−01A, spectrum: 38854
KVLLDGVQNLR, P10L
MVH=47.0573
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
y4++−H2O
y4++
b5++−NH3
y2
b2++
b3++
b7++−H2O
b7++
y7++−H2O
y7++
y3
b8++
b4
y4
y4−NH3
b6
b7−H2O
b7

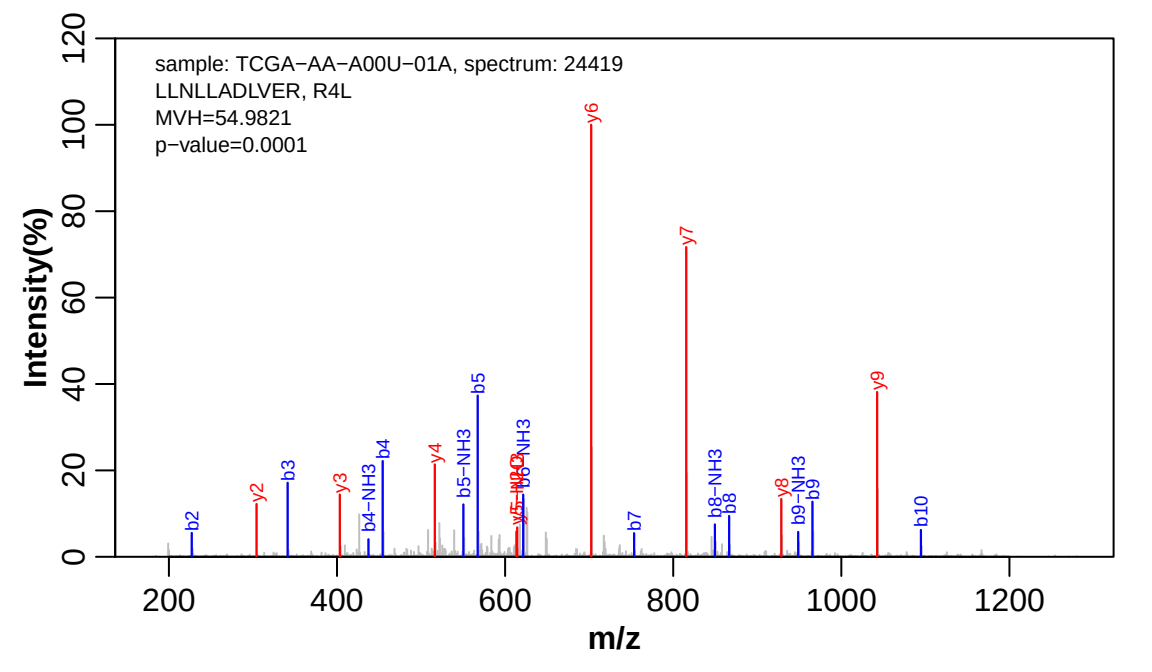

sample: TCGA−AA−A00U−01A, spectrum: 96627
LAGALGPCLSLNVK, V9I
MVH=66.0558
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b4
b5
y4−H2O
b6
y5
b9
y8
y9
y10
y12
b13

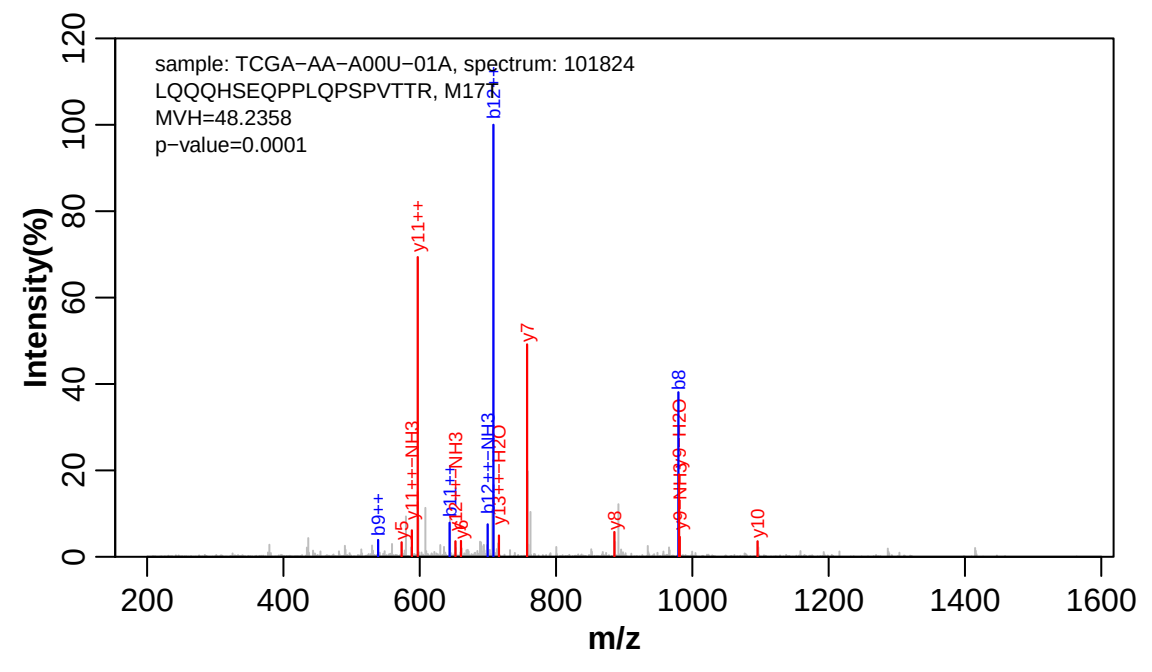

sample: TCGA−AA−A00U−01A, spectrum: 10003
LALQPGTVGPQGR, V3I
MVH=44.3662
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b4−H2O
b4
y4
y5
y6
b8
y8
y9−NH3
y9−H2O
y9
y10
y11−NH3

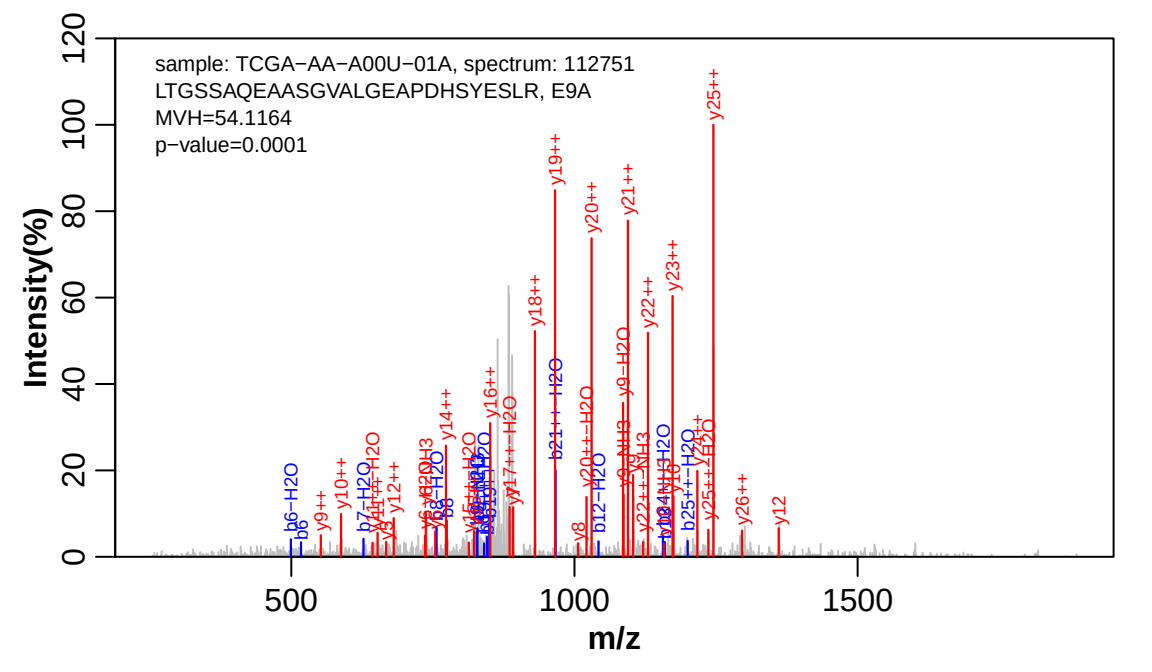

sample: TCGA−AA−A00U−01A, spectrum: 2559
LDSTDFTSTLK, G8S
MVH=48.1208
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8
b9−NH3
y9−H2O
y9
b10
y10

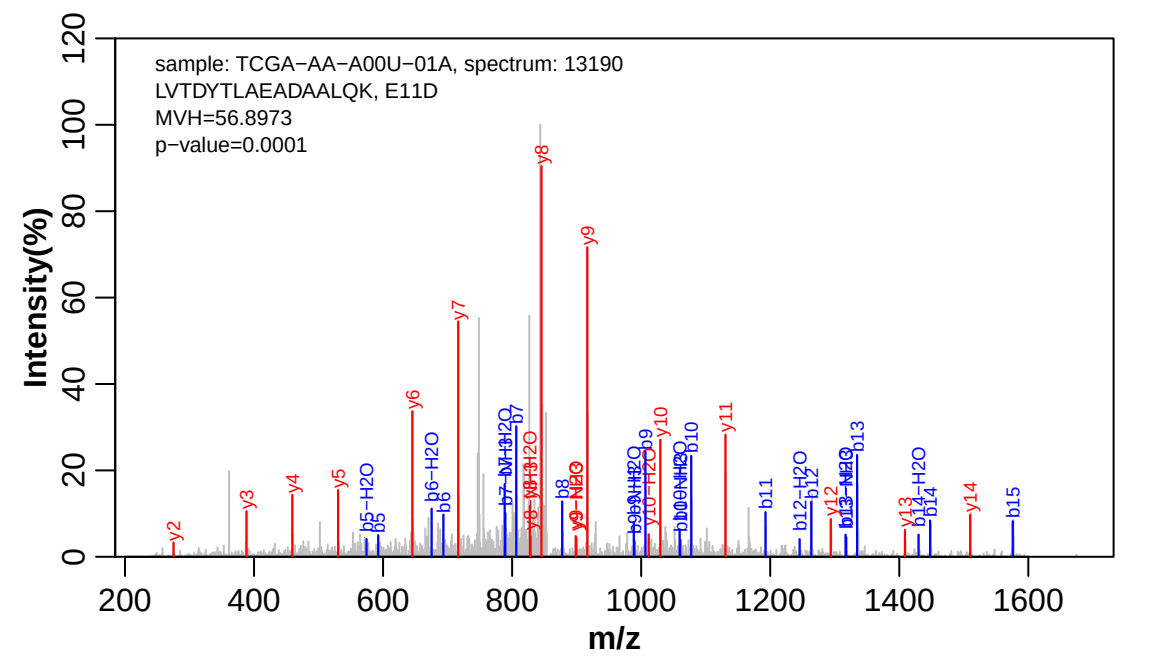

sample: TCGA−AA−A00U−01A, spectrum: 41026
LFEEDPAVGALVLTGGDK, T1I
MVH=86.6435
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y7++
y4
b7++
y5
b10++
b11++−H2O
b11++
y6
b12++
b13++
b14++
y7
b15++−H2O
b16++−NH3
y16++
b7
b10
b8
y10
b9
b11
b12

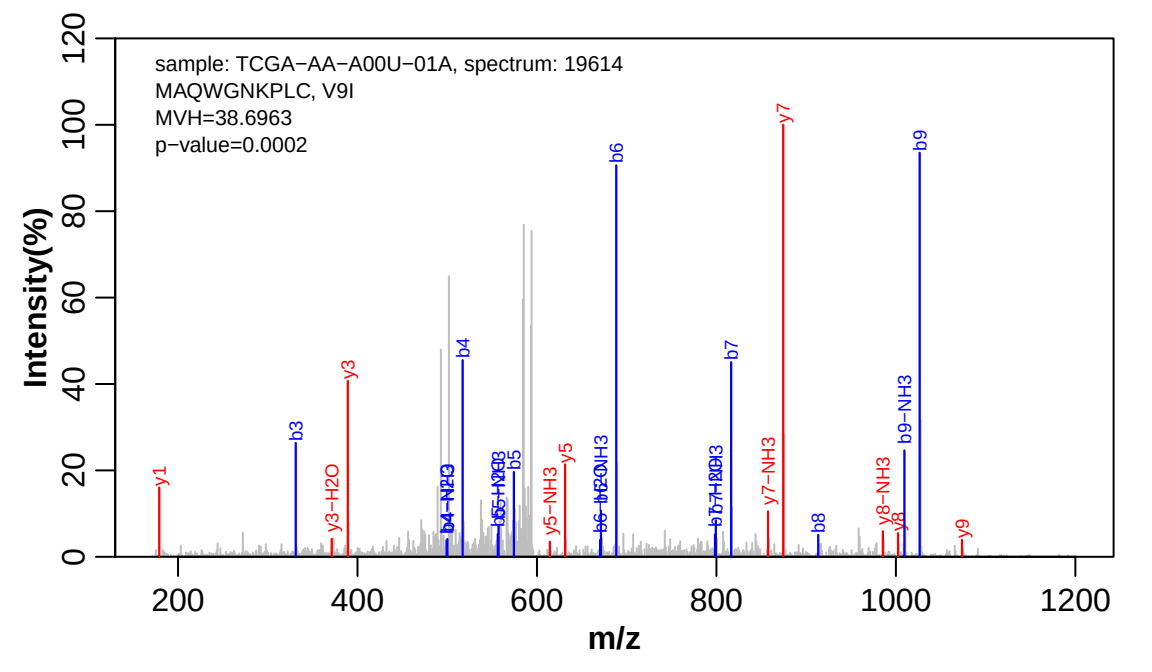

sample: TCGA−AA−A00U−01A, spectrum: 14912
LLDLFYPGDQQSVTFGLK, T17I
MVH=39.3045
p−value=0.0001
y12
y13
b6
y5
b5
y9
y11
b13
y14
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

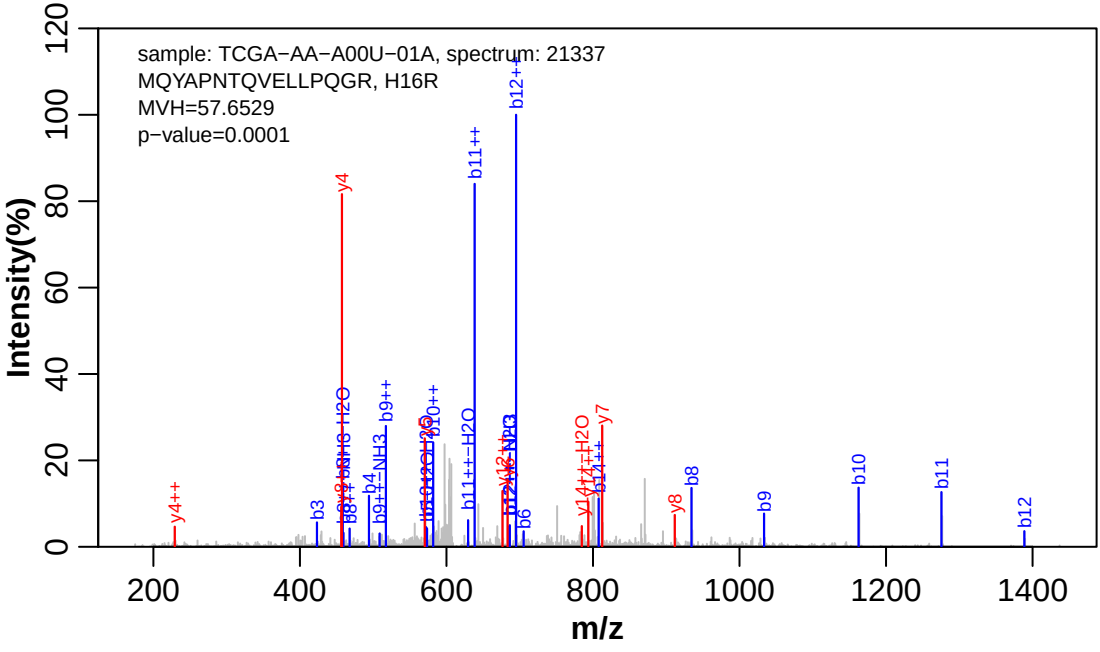

sample: TCGA−AA−A00U−01A, spectrum: 24419
LLNLLADLVER, R4L
MVH=54.9821
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y4
y3
y2
b2
b3
b4
b4−NH3
b5
b5−NH3
b6−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

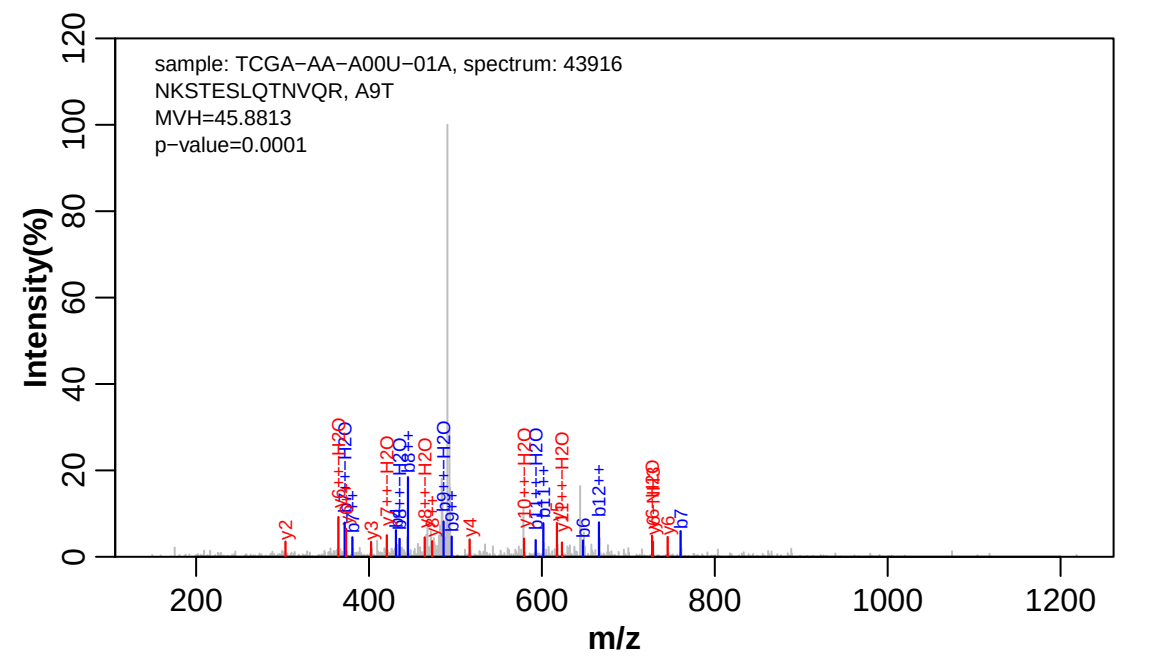

sample: TCGA−AA−A00U−01A, spectrum: 101824
LQQQHSEQPPLQPSPVTTR, M172+
MVH=48.2358
p−value=0.0001
Intensity(%)
m/z
b12++
y11++
y7
b8
b9++
y5
y11++−NH3
y8
b11++−NH3
b12++−NH3
y13++−H2O
y9−NH3−H2O
y10

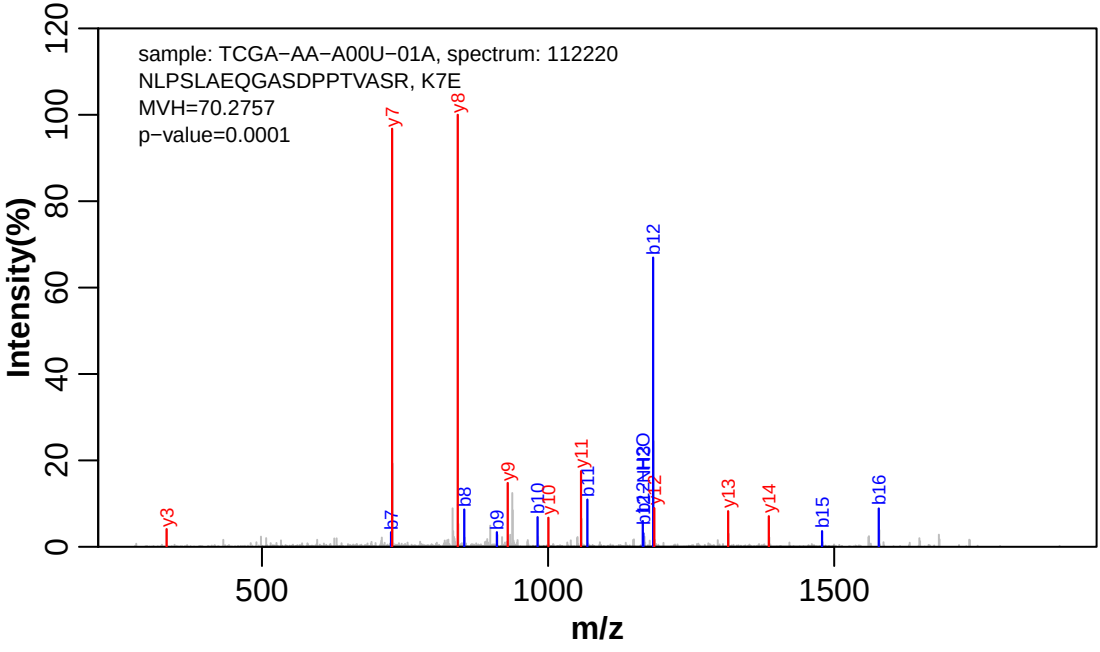

sample: TCGA−AA−A00U−01A, spectrum: 112751
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=54.1164
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b6−H2O
b6
y9++
y10++
b7−H2O
y12++
y14++
y16++
y17++−H2O
y18++
y19++
b21++−H2O
y20++
y20++−H2O
b12−H2O
y9−H2O
y21++
y22++
y23++
y25++
y26++
y12

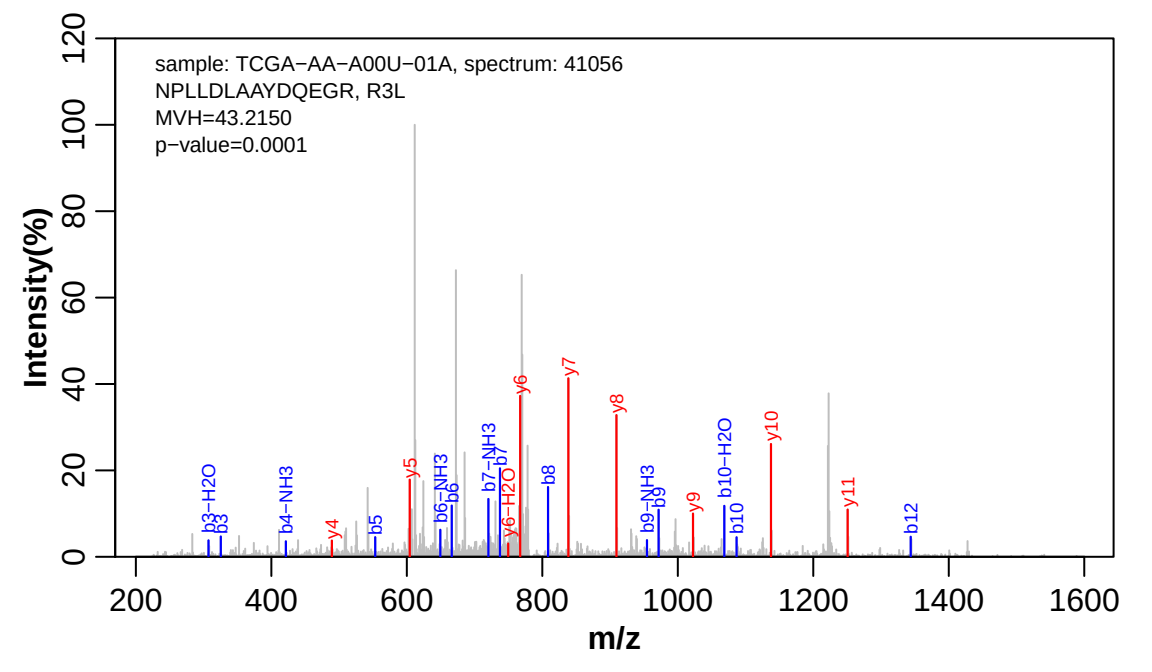

sample: TCGA−AA−A00U−01A, spectrum: 13190
LVTDYTLAEADAALQK, E11D
MVH=56.8973
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
b5−H2O
b5
y6
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y8
y8−NH3
y8−H2O
b8
y9
y9−NH3
y9−H2O
b9−NH3
b9−H2O
y10−H2O
y10
b10−NH3
b10−H2O
y11
b11
b12−H2O
b12
y12
b13−NH3
b13−H2O
b13
y13
b14−H2O
b14
y14
b15

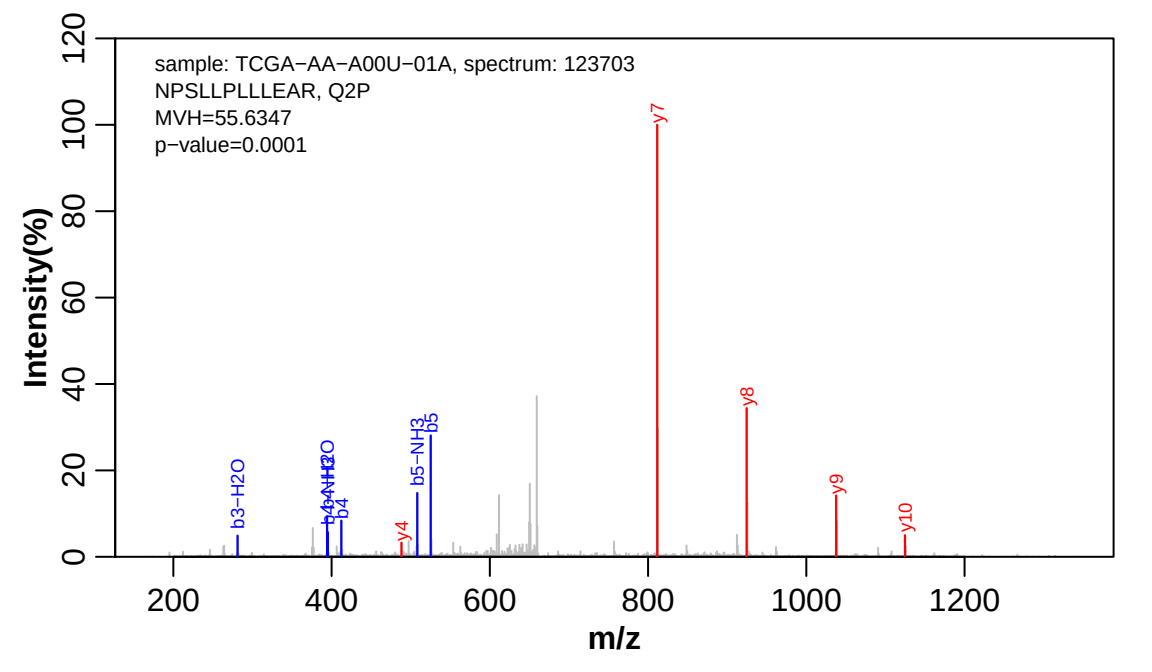

sample: TCGA−AA−A00U−01A, spectrum: 19614
MAQWGNKPLC, V9I
MVH=38.6963
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b3
y3−H2O
y3
b4
b5
y5−NH3
y5
b6
b6−NH3
b7
y7−NH3
y7
b8
b9−NH3
b9
y8−NH3
y8
y9

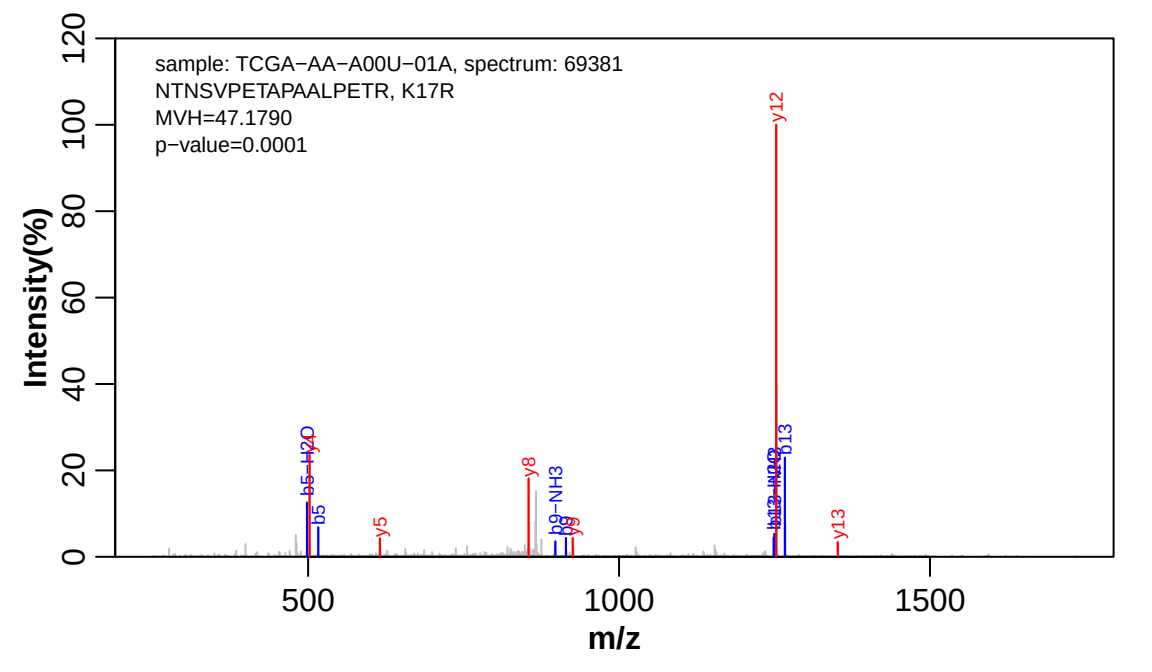

sample: TCGA−AA−A00U−01A, spectrum: 21337
MQYAPNTQVELLPQGR, H16R
MVH=57.6529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4++
b3
y4
b4
b9++−NH3
b9++
b10++
b11++−H2O
b11++
b12++
b6
y14++−H2O
y7
y8
b8
b9
b10
b11
b12

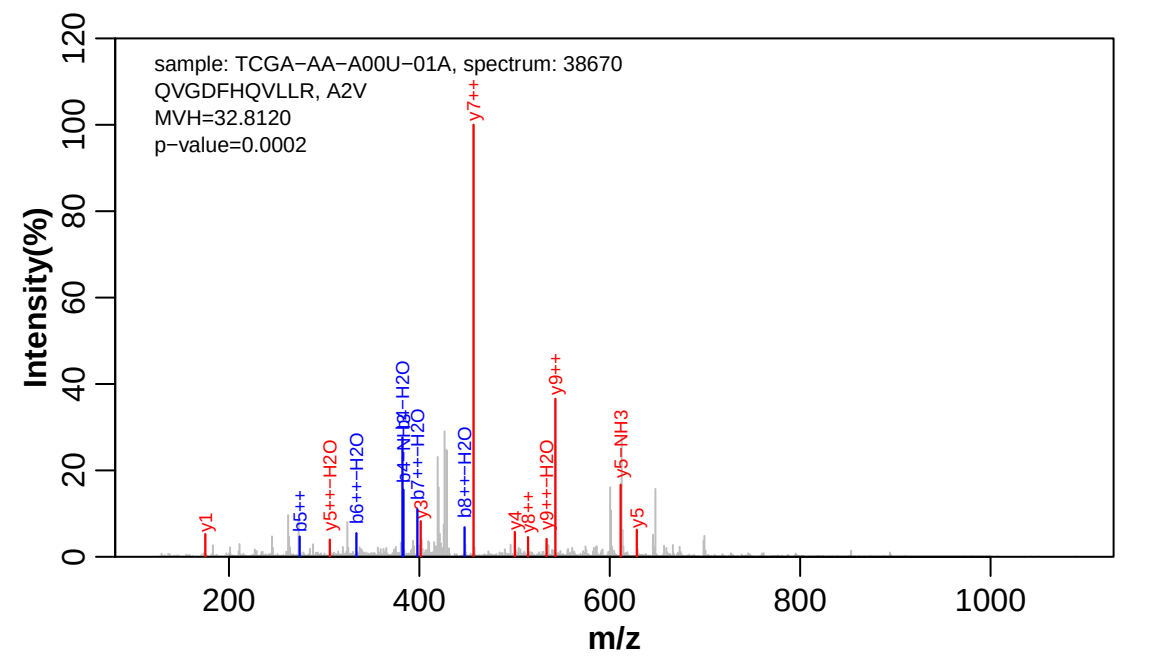

sample: TCGA−AA−A00U−01A, spectrum: 43916
NKSTESLQTNVQR, A9T
MVH=45.8813
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
y3
y4
b6
b12++

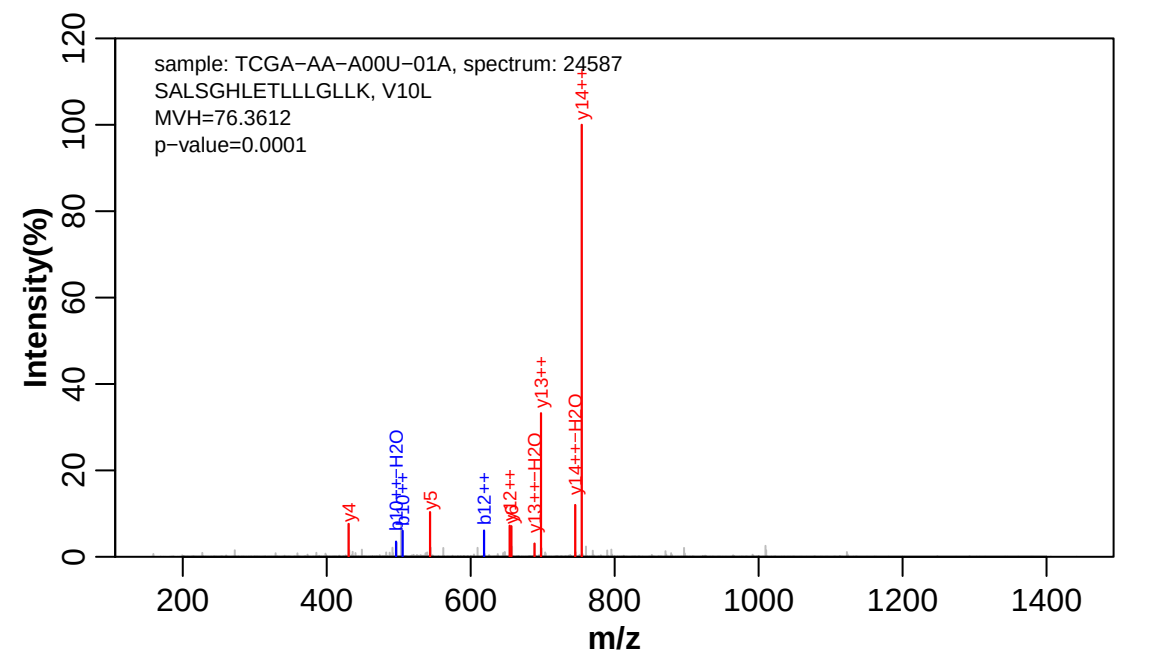

sample: TCGA−AA−A00U−01A, spectrum: 112220
NLPSLAEQGASDPPTVASR, K7E
MVH=70.2757
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b7
y7
b8
y8
b9
y9
b10
y10
y11
b11
b12−NH2O
b12
y12
y13
y14
b15
b16

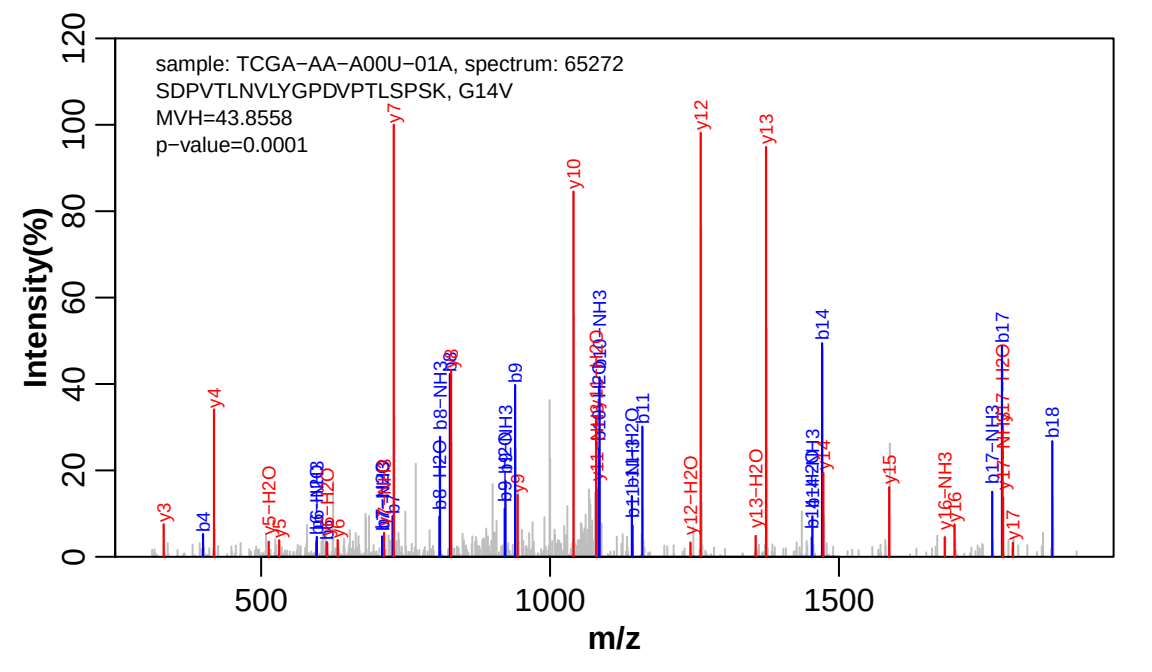

sample: TCGA−AA−A00U−01A, spectrum: 41056
NPLLDLAAYDQEGR, R3L
MVH=43.2150
p−value=0.0001
Intensity(%)
m/z
b3−H2O
b3
b4−NH3
y4
b5
y5
b6−NH3
b6
b7−NH3
b7
y6−H2O
y6
y7
b8
y8
b9−NH3
b9
y9
b10−H2O
b10
y10
y11
b12

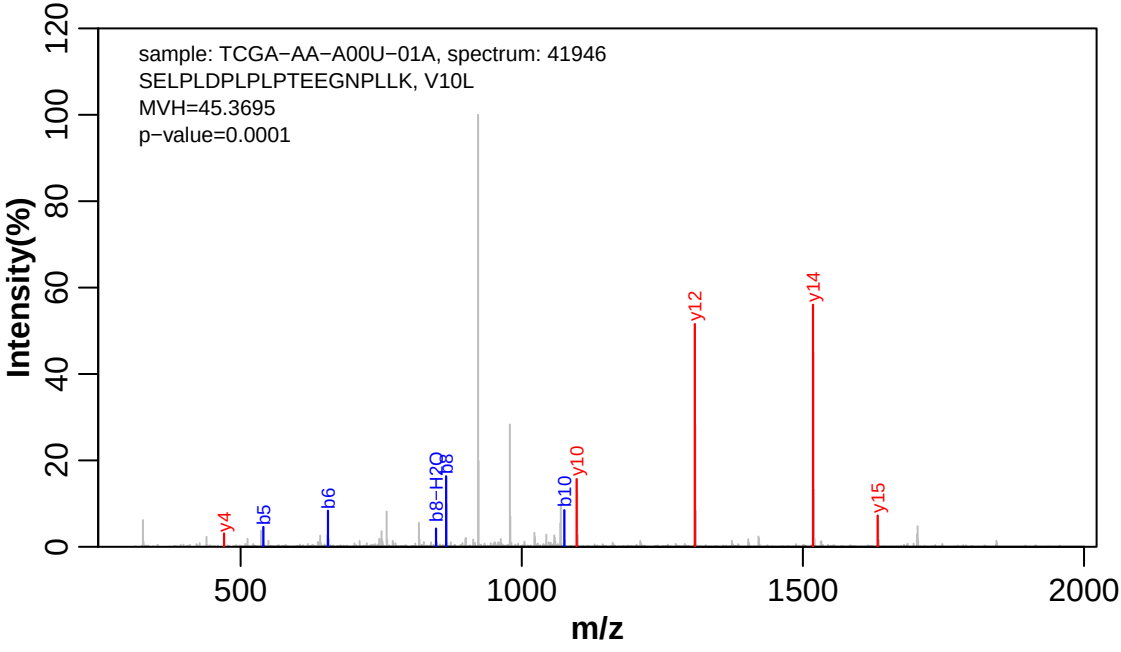

sample: TCGA−AA−A00U−01A, spectrum: 123703
NPSLLPLLLEAR, Q2P
MVH=55.6347
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y7
y8
y9
y10
b3−H2O
b4−NH3
b4−H2O
b4
y4
b5−NH3
b5

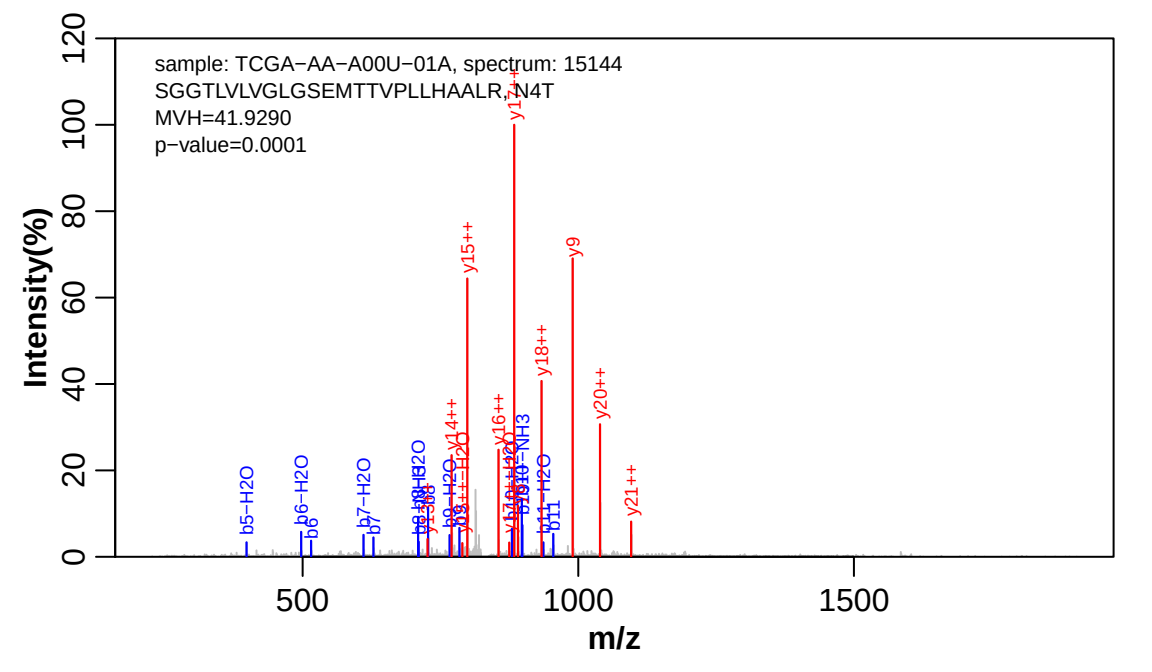

sample: TCGA−AA−A00U−01A, spectrum: 69381
NTNSVPETAPAALPETR, K17R
MVH=47.1790
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
b5−H2O
b5
y5
b9−NH3
b9
y9
b13
y13

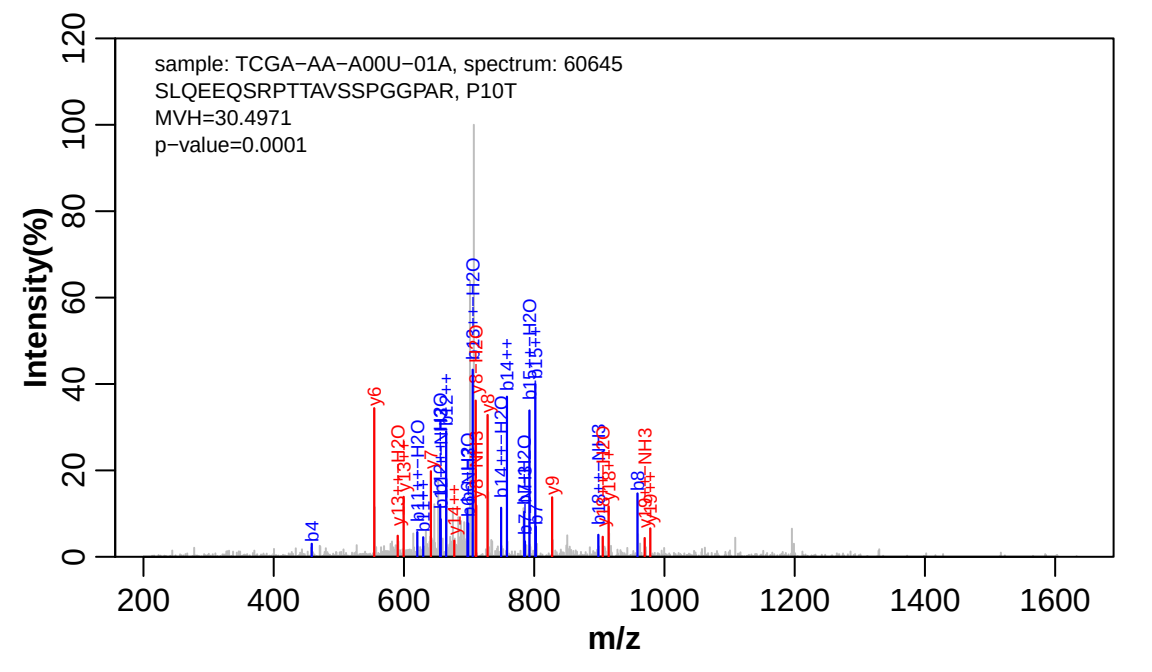

sample: TCGA−AA−A00U−01A, spectrum: 38670
QVGDFHQVLLR, A2V
MVH=32.8120
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b5++
y5++−H2O
b6++−H2O
b4++−NH3
b4++−H2O
y3
b7++−H2O
b8++−H2O
y7++
y4
y8++
y9++−H2O
y9++
y5−NH3
y5

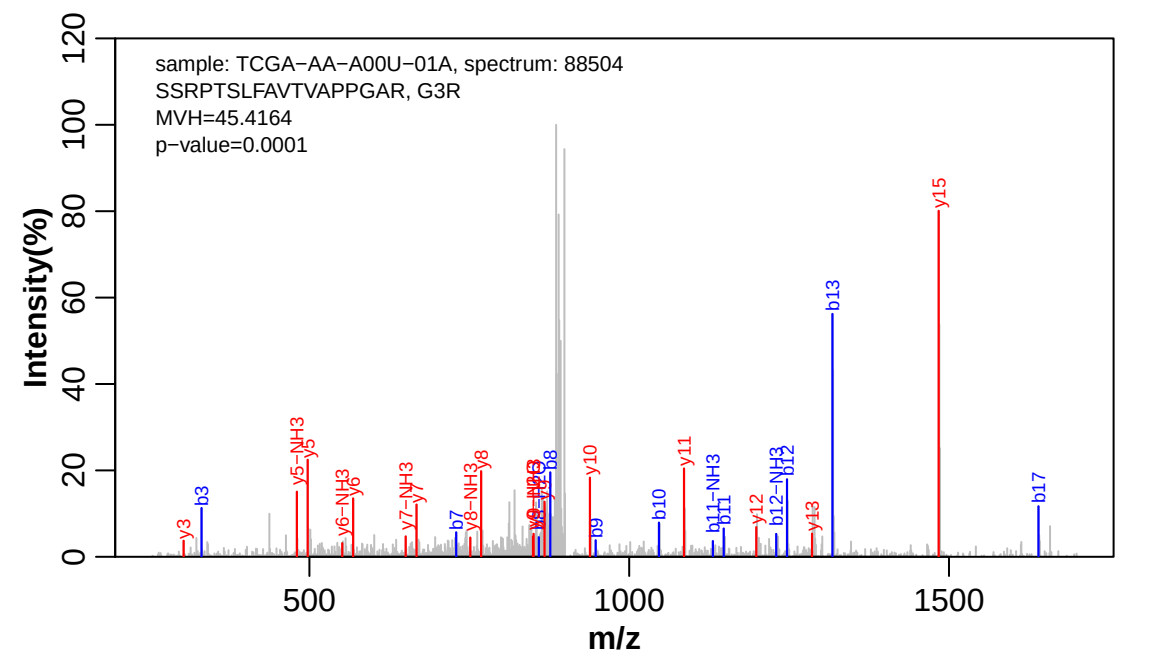

sample: TCGA−AA−A00U−01A, spectrum: 24587
SALSGHLETLLLGLLK, V10L
MVH=76.3612
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
y4
b10++−H2O
b10++
y5
b12++
y12++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

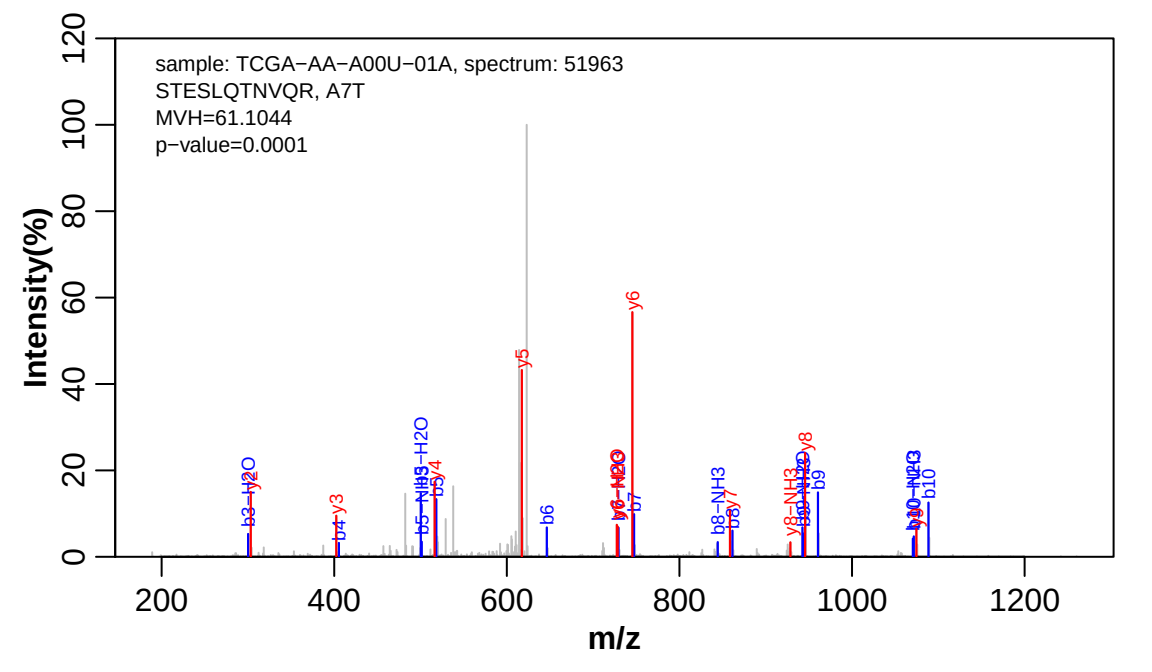

sample: TCGA−AA−A00U−01A, spectrum: 65272
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=43.8558
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y12
y13
y10
y4
b14
b18
b17
b11
b9
b8−NH3
b8−H2O
y12−H2O
y13−H2O
y5−H2O
y15
y16−NH3
b17−NH3
y3
b4
y5
y6
y9
y14
y16
y17

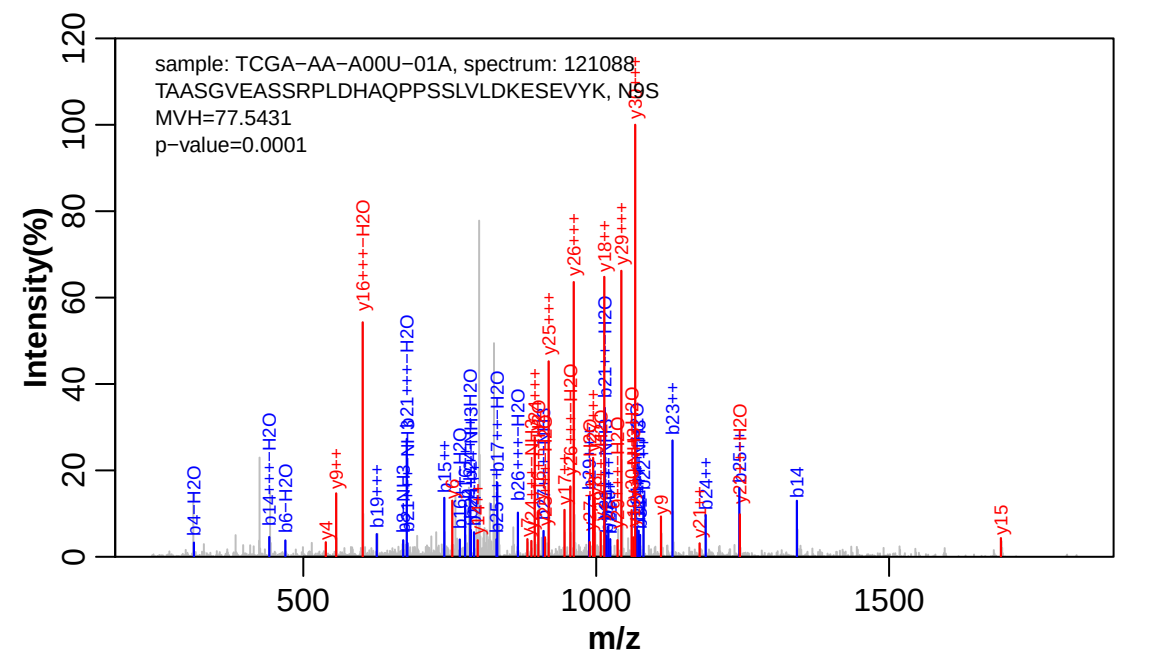

sample: TCGA−AA−A00U−01A, spectrum: 41946
SELPLDPLPLPTEEGNPLLK, V10L
MVH=45.3695
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6
b8−H2O
b8
b10
y10
y12
y14
y15

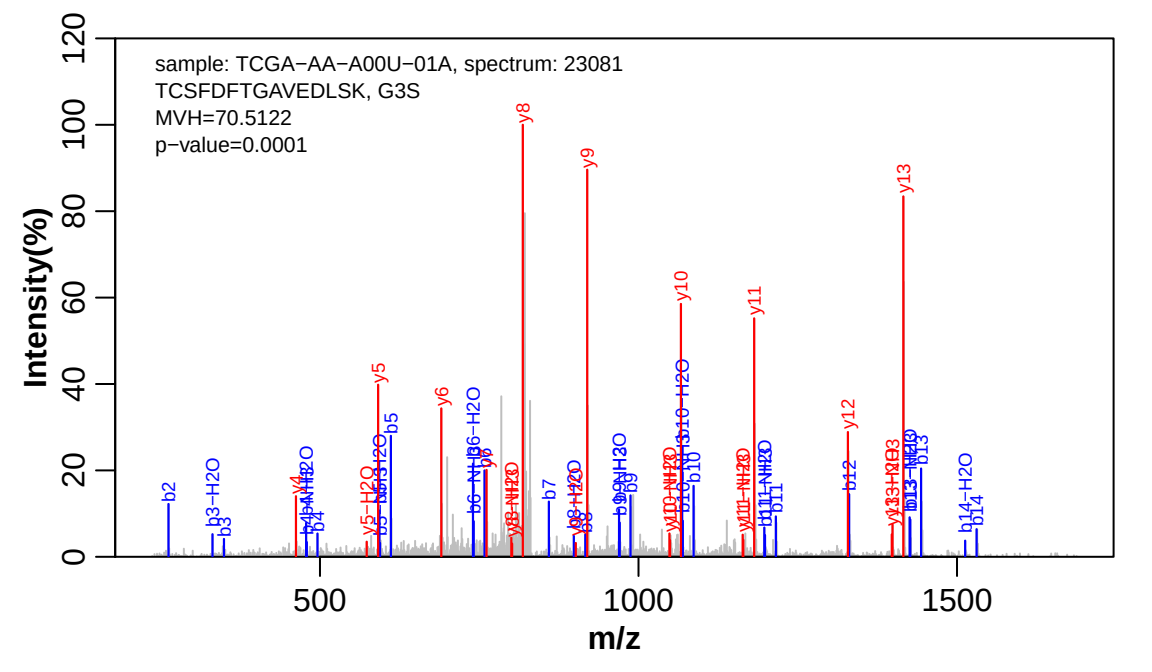

sample: TCGA−AA−A00U−01A, spectrum: 15144
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=41.9290
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12++
y15++
y9
y18++
y20++
y21++
y14++
y16++
b5−H2O
b6−H2O
b6
b7−H2O
b7
b11−H2O
b11

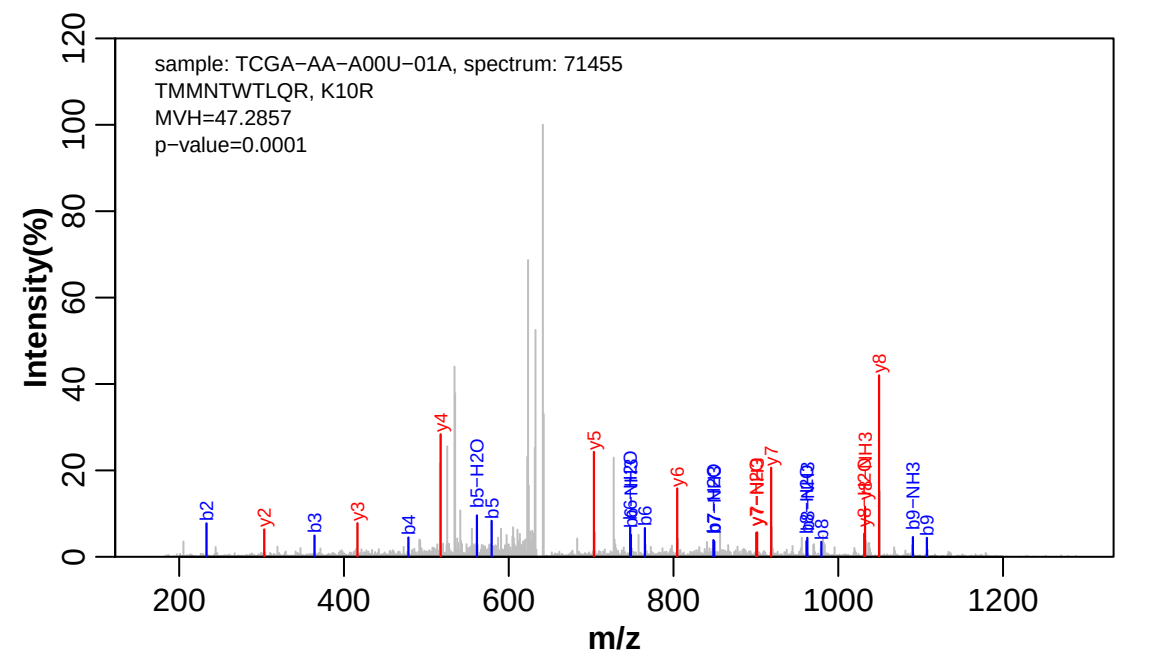

sample: TCGA−AA−A00U−01A, spectrum: 60645
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=30.4971
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
y6
y13++H2O
y13++
b11++H2O
b11++
y7
b12++
b12++NH3
b12++H2O
y14++
b13++
b13++H2O
y8
y8−NH3
b14++H2O
b14++
b15++H2O
b15++
b7
b7−NH3
b7−H2O
y9
b18++NH3
b18++H2O
b18++
y18++NH3
y18++H2O
y18++
b8
y8++NH3
y8++H2O
y8++

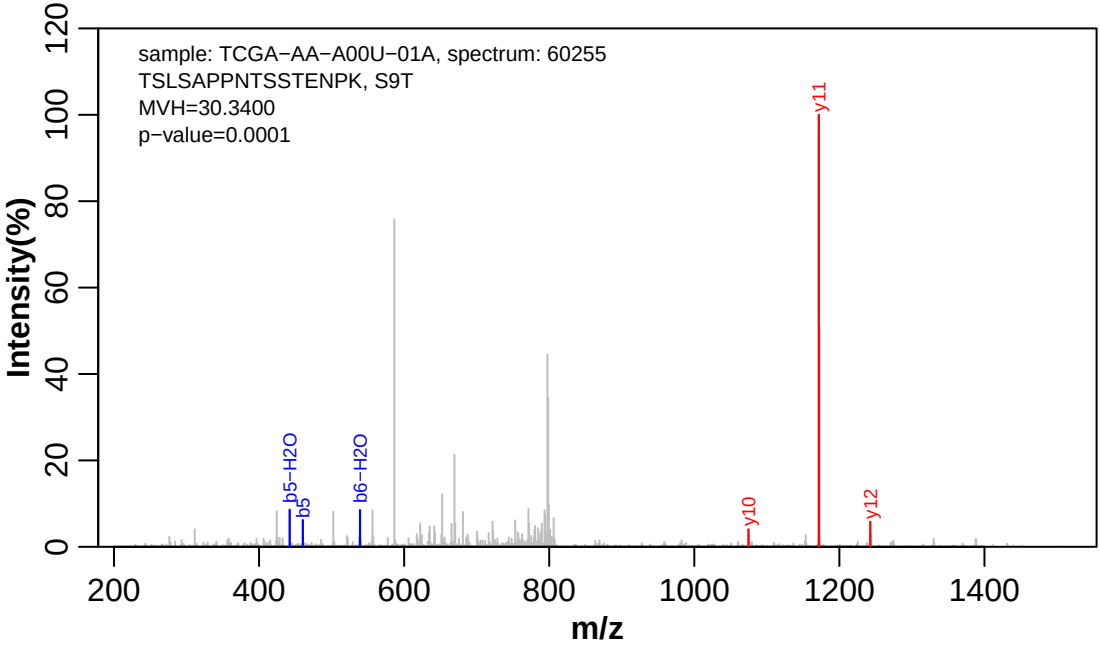

sample: TCGA−AA−A00U−01A, spectrum: 88504
SSRPTSLFAVTVAPPGAR, G3R
MVH=45.4164
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b3
y5−NH3
y5
y6−NH3
y6
y7−NH3
y7
b7
y8−NH3
y8
b8
y10
b9
b10
y11
b11−NH3
b11
y12
b12−NH3
b12
y13
b13
y15
b17

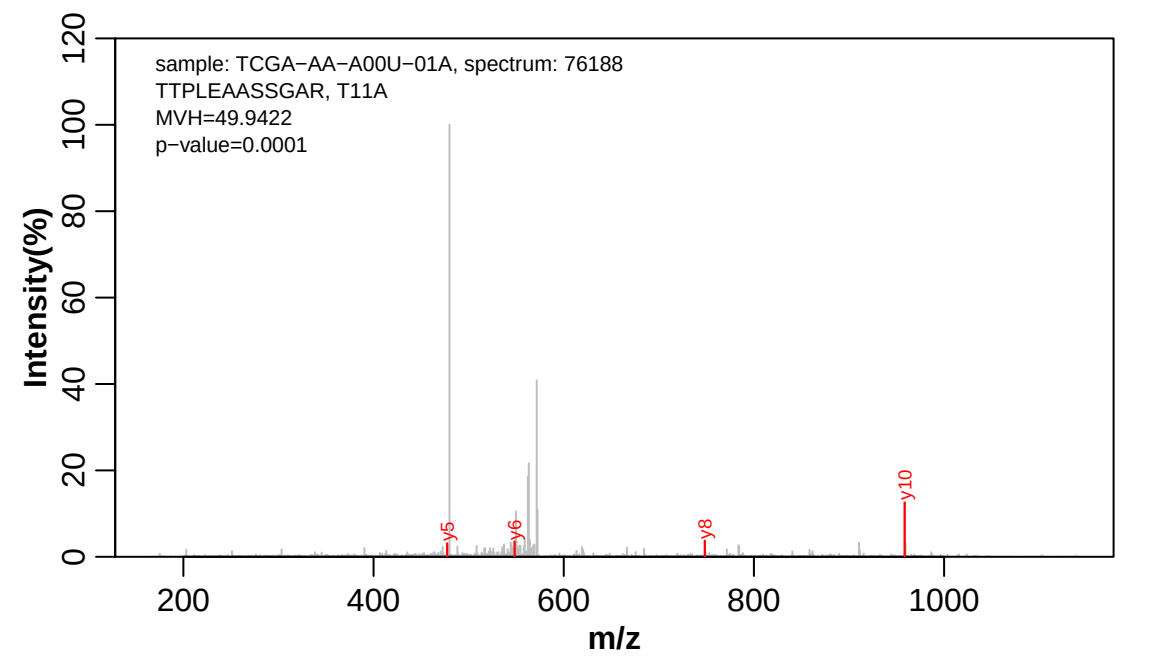

sample: TCGA−AA−A00U−01A, spectrum: 51963
STESLQTNVQR, A7T
MVH=61.1044
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b4−y3
b5−NH3
b5−H2O
b5/y4
y5
b6
y6
b7
b8−NH3
b8/y7
y8−NH3
y8
b9
b10
b10−NH3

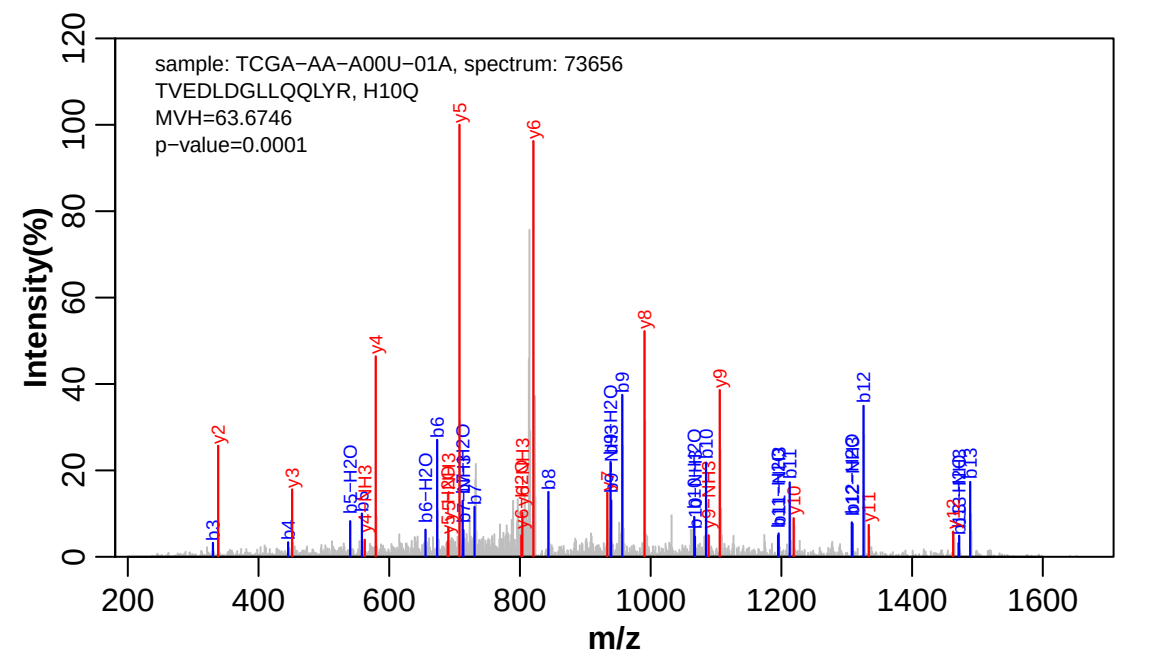

sample: TCGA−AA−A00U−01A, spectrum: 121088
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=77.5431
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−H2O
b14+++−H2O
b6−H2O
y4
y9++
y16+++−H2O
b19+++
b21+++−H2O
b15++
b26+++−H2O
y25+++
y26+++
y18++
y29+++
y30+++
b23++
y9
y21++
b24++
y25+++H2O
b14
y15

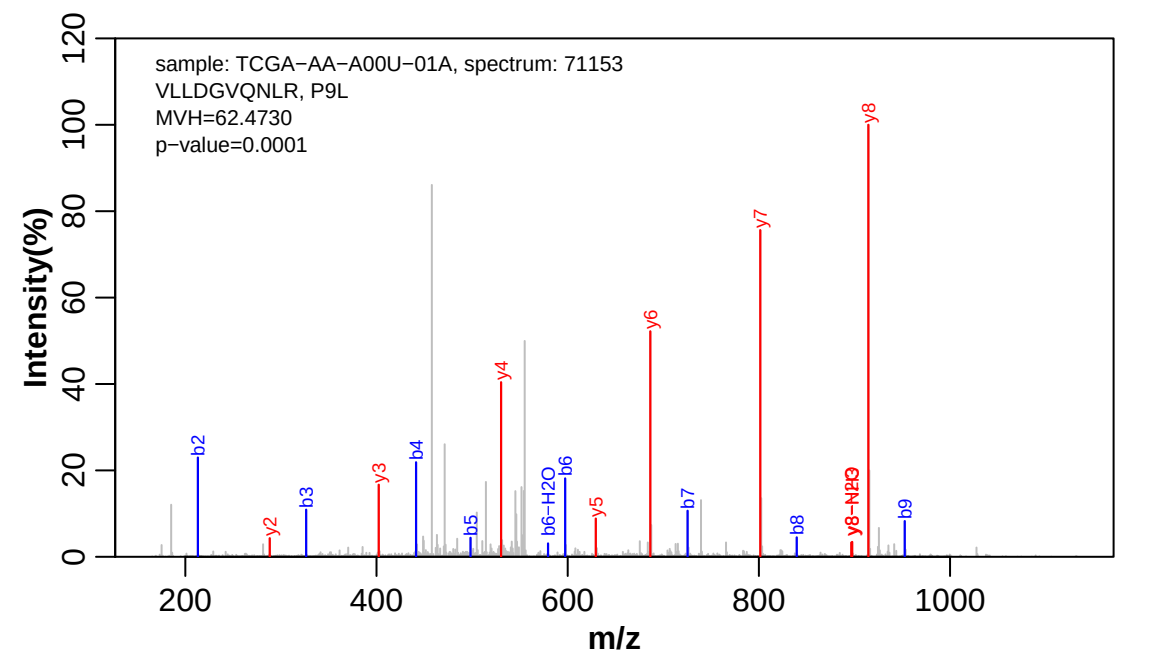

sample: TCGA−AA−A00U−01A, spectrum: 23081
TCSFDFTGAVEDLSK, G3S
MVH=70.5122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3−H2O
b3
y5
y6
b5
y8
y9
b7
y10
y11
y12
y13
b12
b13
b14−H2O
b14

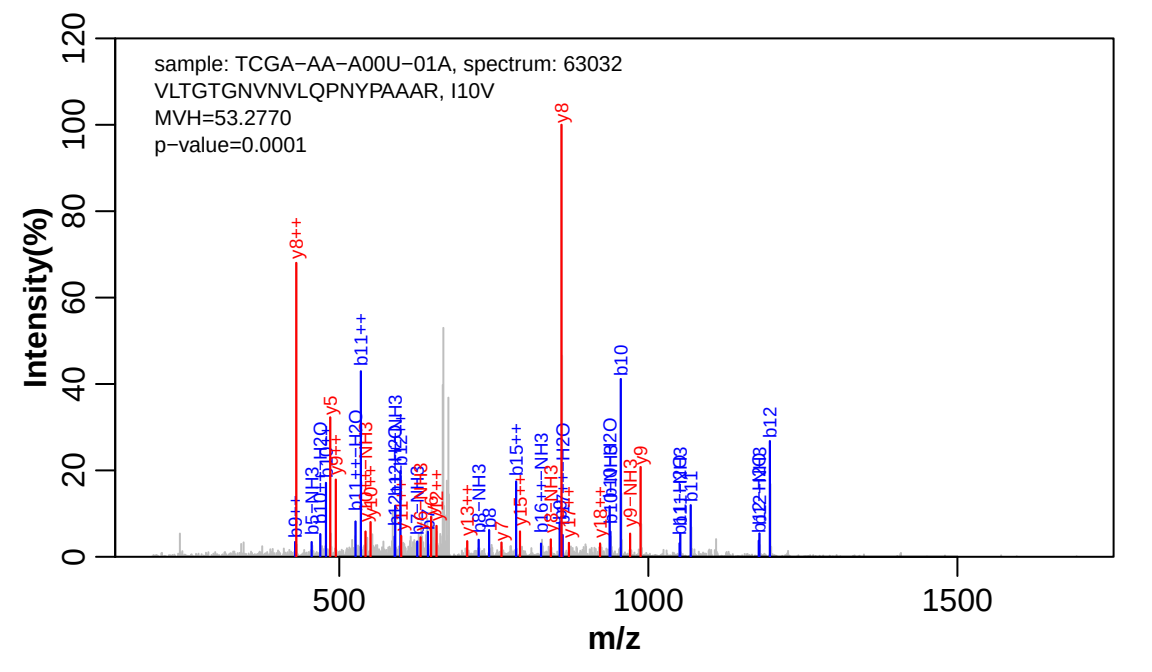

sample: TCGA−AA−A00U−01A, spectrum: 71455
TMMNTWTLQR, K10R
MVH=47.2857
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y2
b3
y3
b4
y4
b5−H2O
b5
y5
b6
y6
y7
y8
b8
b9−NH3
b9

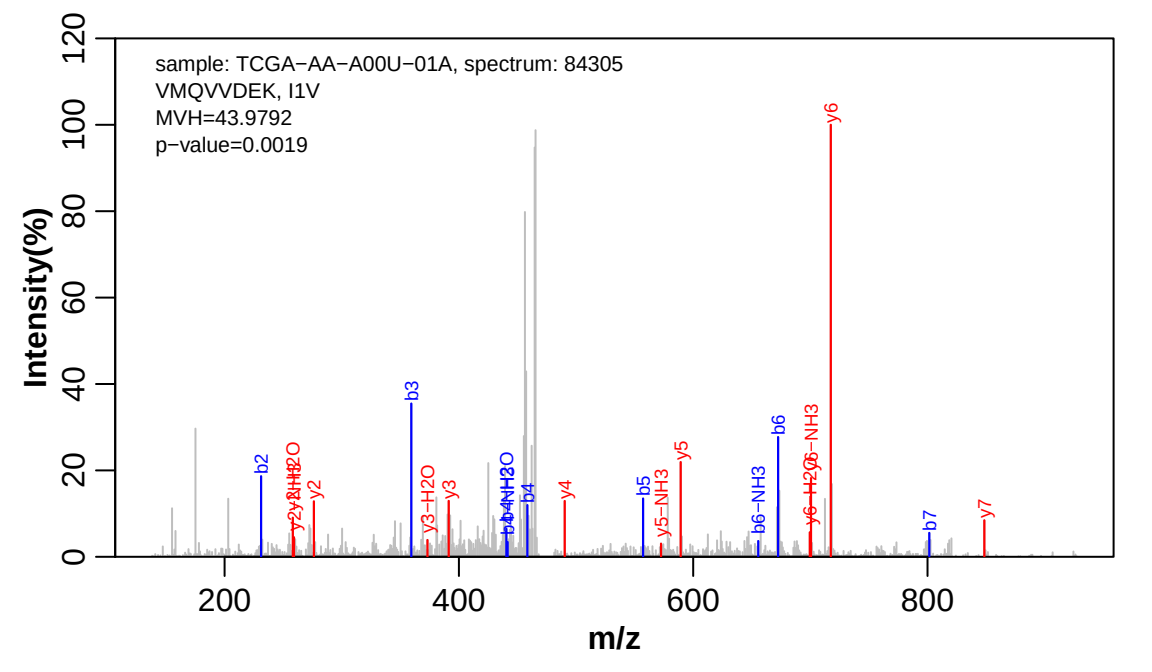

sample: TCGA−AA−A00U−01A, spectrum: 60255
TSLSAPPNTSSTENPK, S9T
MVH=30.3400
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b5−H2O
b5
b6−H2O
y10
y11
y12

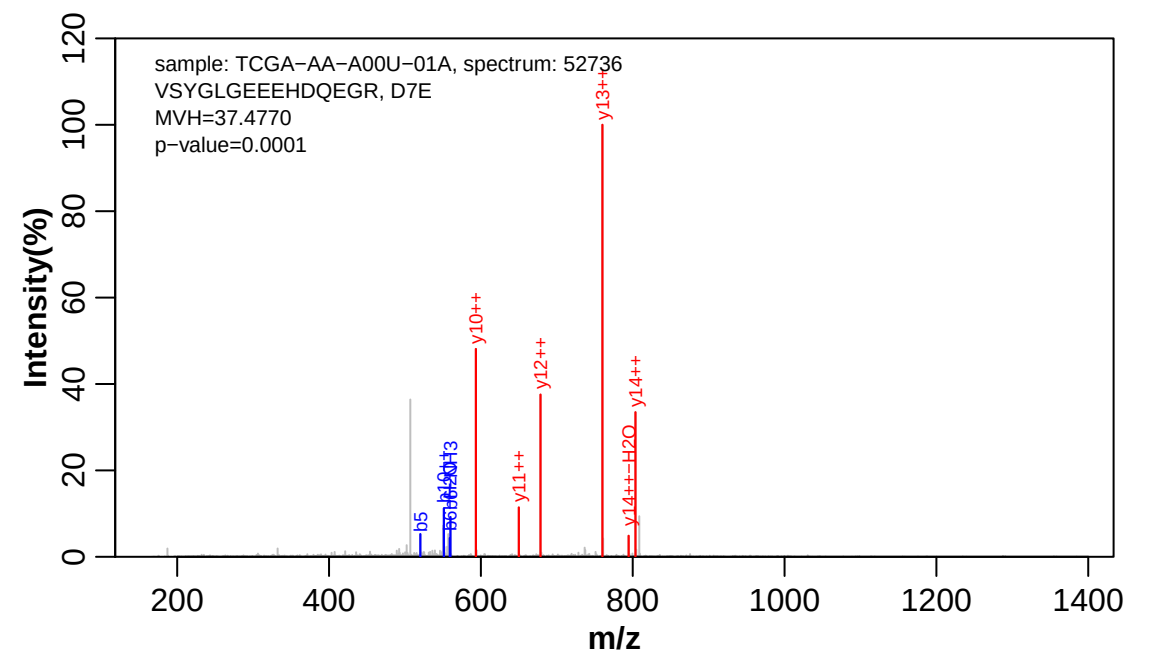

sample: TCGA−AA−A00U−01A, spectrum: 76188
TTPLEAASSGAR, T11A
MVH=49.9422
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y8
y10

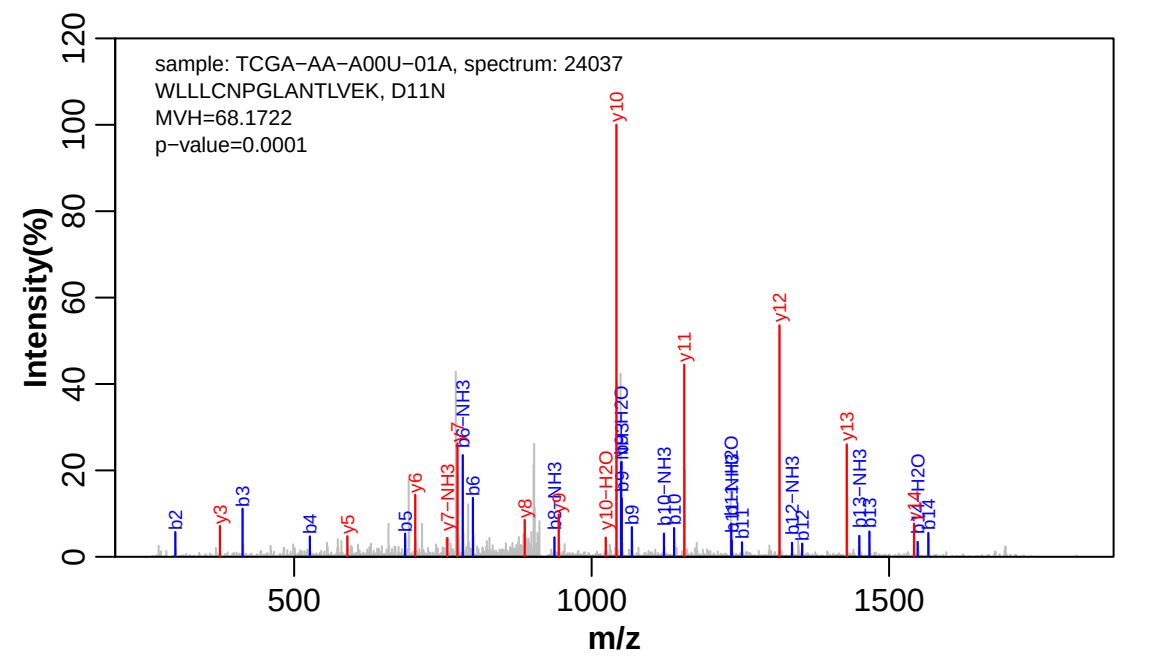

sample: TCGA−AA−A00U−01A, spectrum: 73656
TVEDLDGLLQQLYR, H10Q
MVH=63.6746
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y2
y4
y8
y9
b12
b3
b4
b5−H2O
b6
b6−H2O
b8
b9
y3
y10
y11
b13

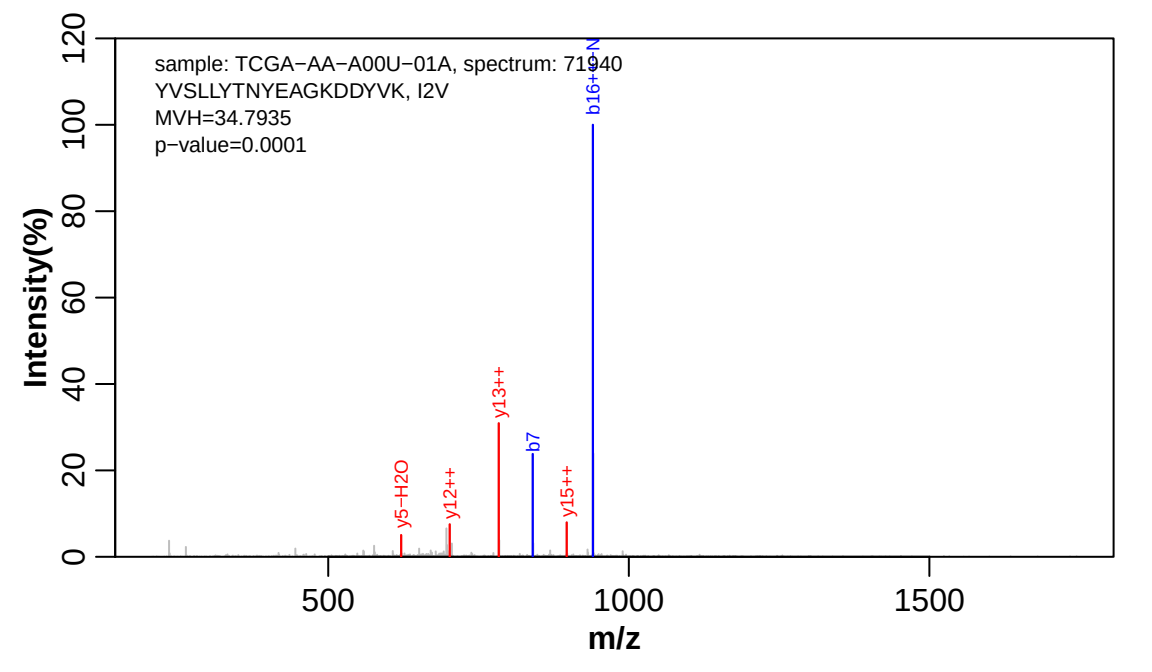

sample: TCGA−AA−A00U−01A, spectrum: 71153
VLLDGVQNLR, P9L
MVH=62.4730
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y8−NH3
y8−H2O
y8
y7
b9

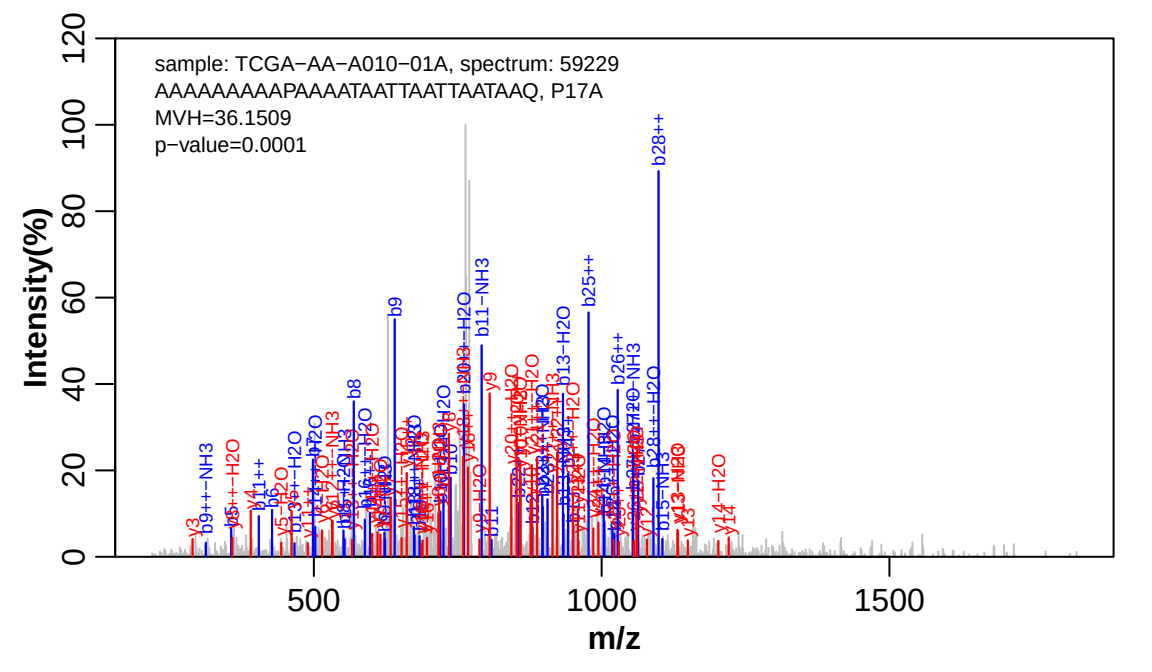

sample: TCGA−AA−A00U−01A, spectrum: 63032
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=53.2770
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y8++
b11++
b10
b12
y9
y5
y7
b8
y15++
b15++
y18++
y13++
b9++
y9++
y5++
b11++−H2O
y9−NH3
b10−NH3
b11
b12−H2O
b12−NH3

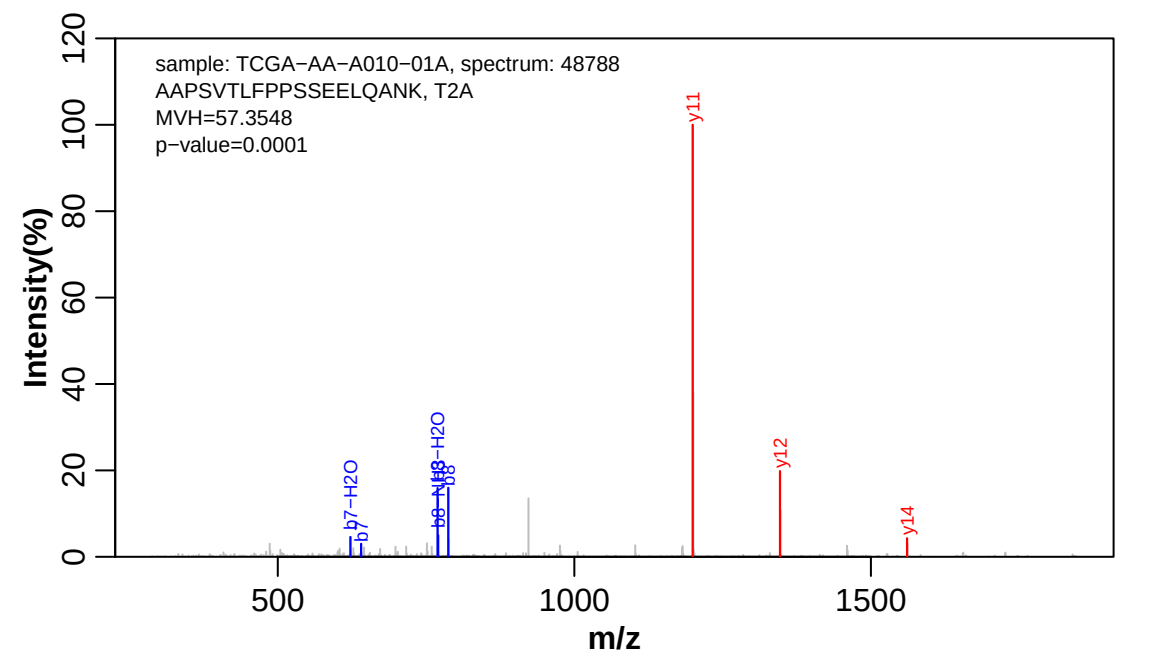

sample: TCGA−AA−A00U−01A, spectrum: 84305
VMQVVDEK, I1V
MVH=43.9792
p−value=0.0019
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b2
y2
b3
y3−H2O
y3
b4
y4
b5
y5−NH3
y5
b6−NH3
b6
y6−H2O
y6−NH3
y6
b7
y7

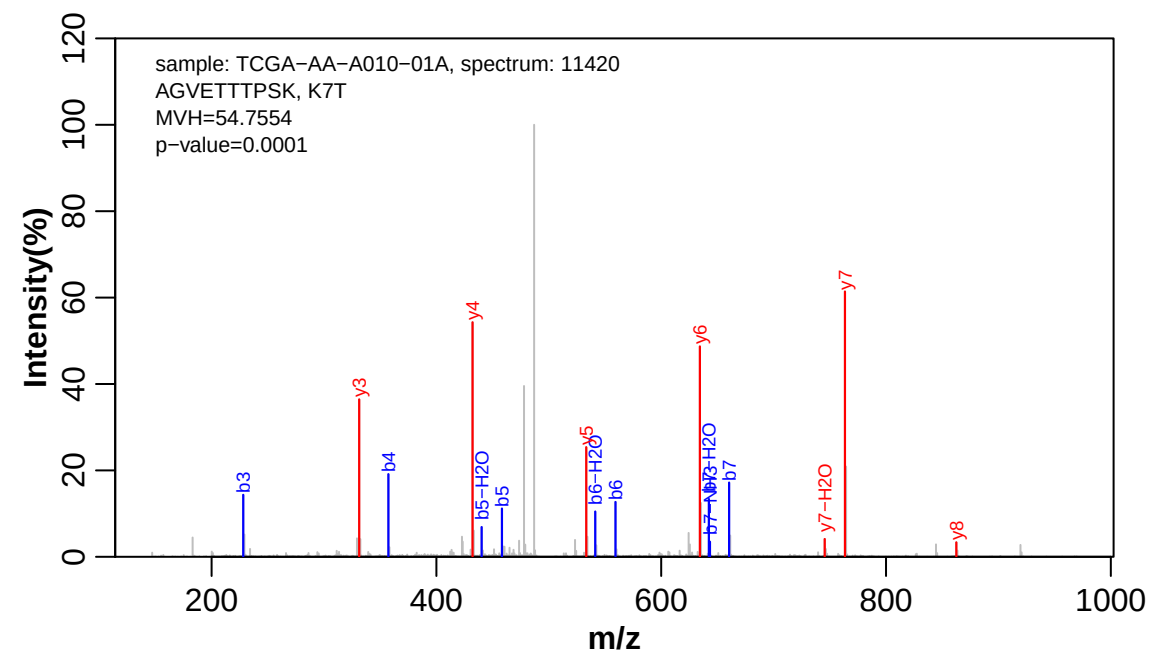

sample: TCGA−AA−A00U−01A, spectrum: 52736
VSYGLGEEEHDQEGR, D7E
MVH=37.4770
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5
y10++
y11++
y12++
y13++
y14++
y14++−H2O

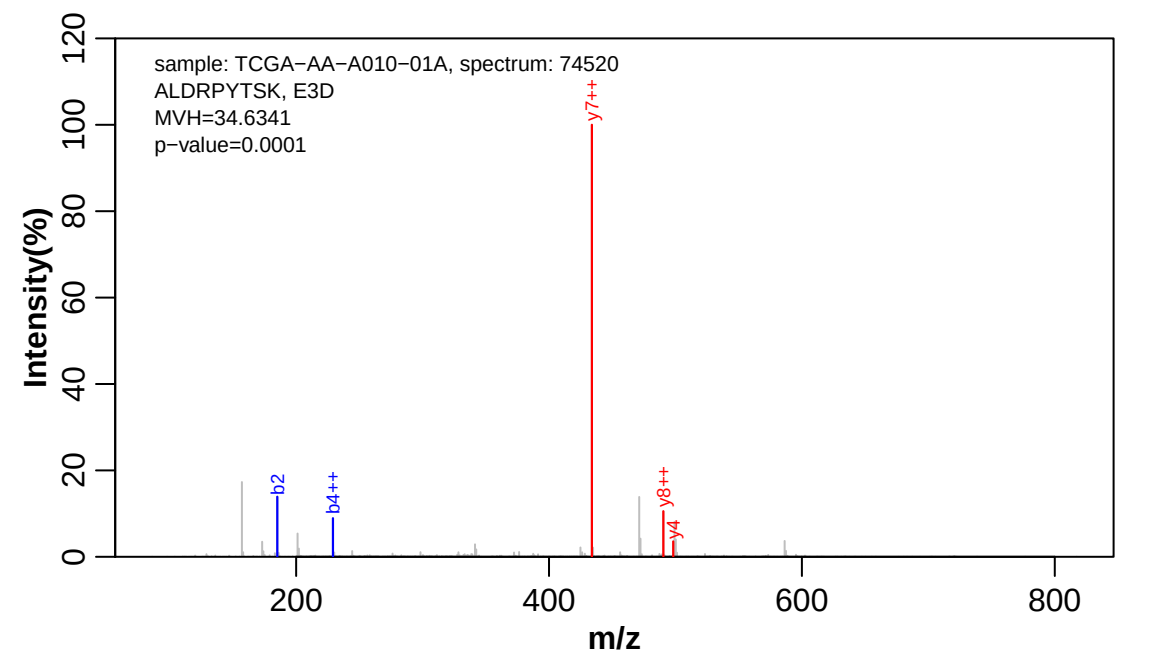

sample: TCGA−AA−A00U−01A, spectrum: 24037
WLLLCNPGLANTLVEK, D11N
MVH=68.1722
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
b4
y5
b5
y6
y7−NH3
b6
y8
b8−NH3
y10−H2O
b9
b10−NH3
y11
y12
b12−NH3
y13
b13−NH3
b14
y10

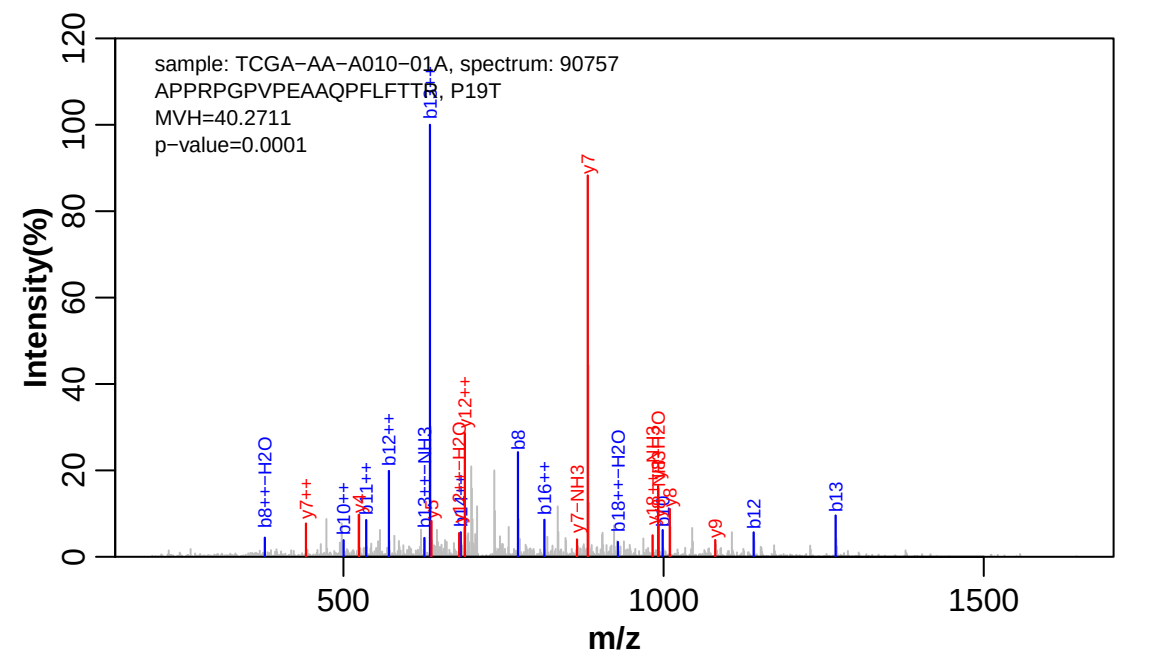

sample: TCGA−AA−A00U−01A, spectrum: 71940
YVSLLYTNYEAGKDDYVK, I2V
MVH=34.7935
p−value=0.0001
b16+−N
y13++
b7
y5−H2O
y12++
y15++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

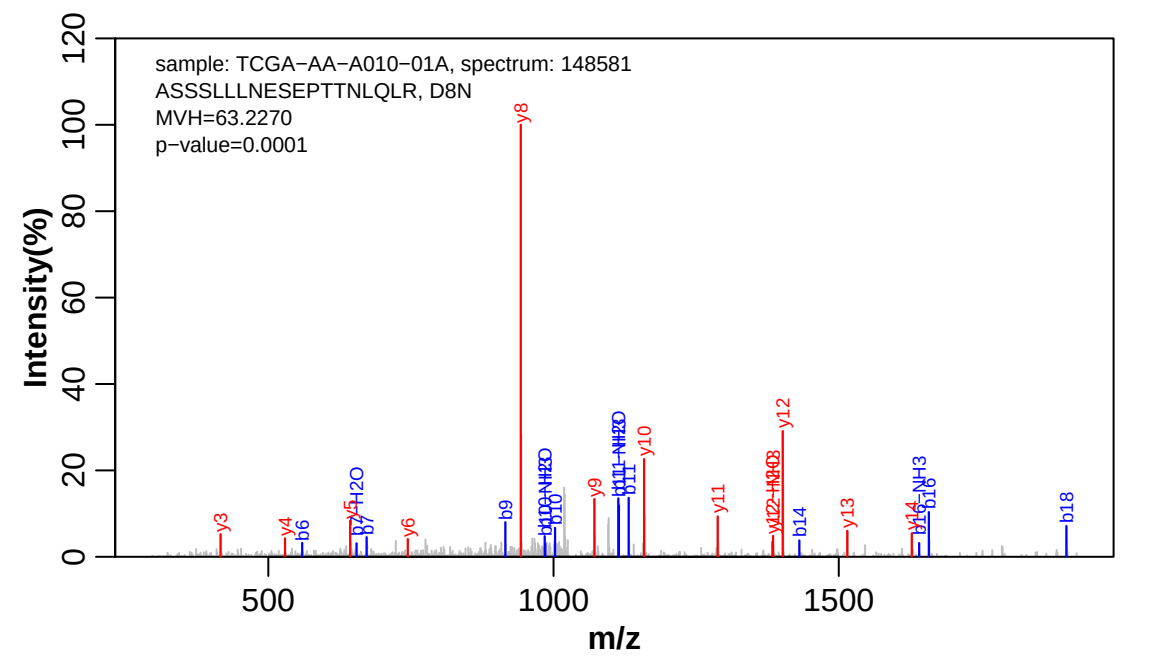

sample: TCGA−AA−A010−01A, spectrum: 59229
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=36.1509
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b9
b11−NH3
b25++
b26++
y14−H2O
b9++−NH3
y5++−H2O

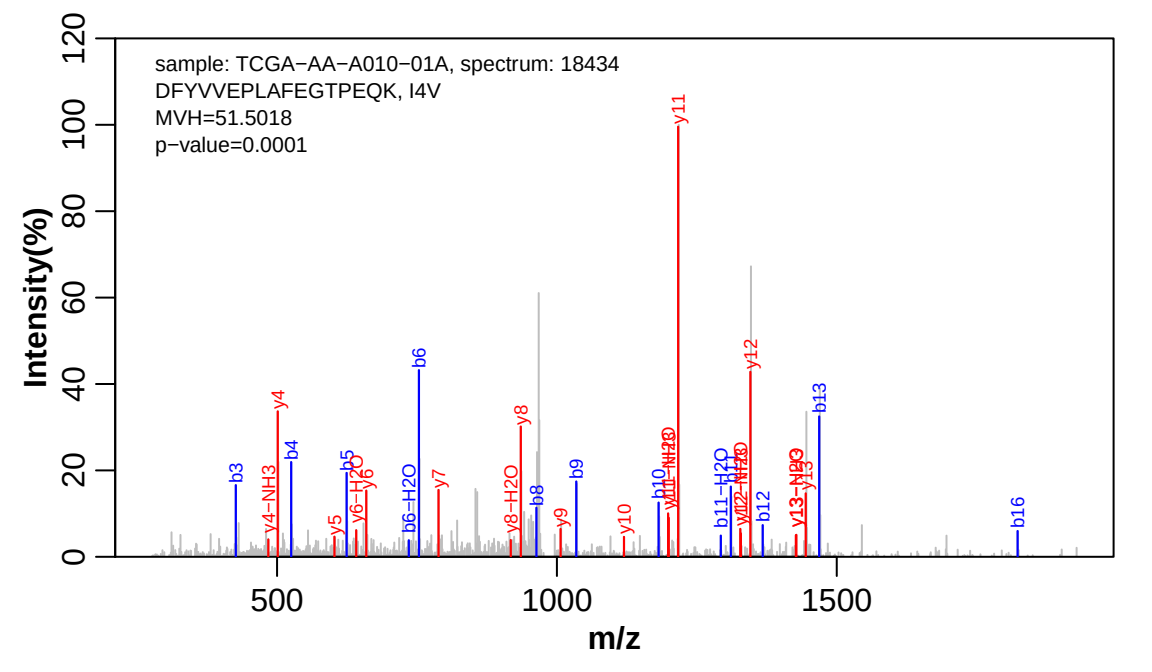

sample: TCGA−AA−A010−01A, spectrum: 48788
AAPSVTLFPPSSEELQANK, T2A
MVH=57.3548
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

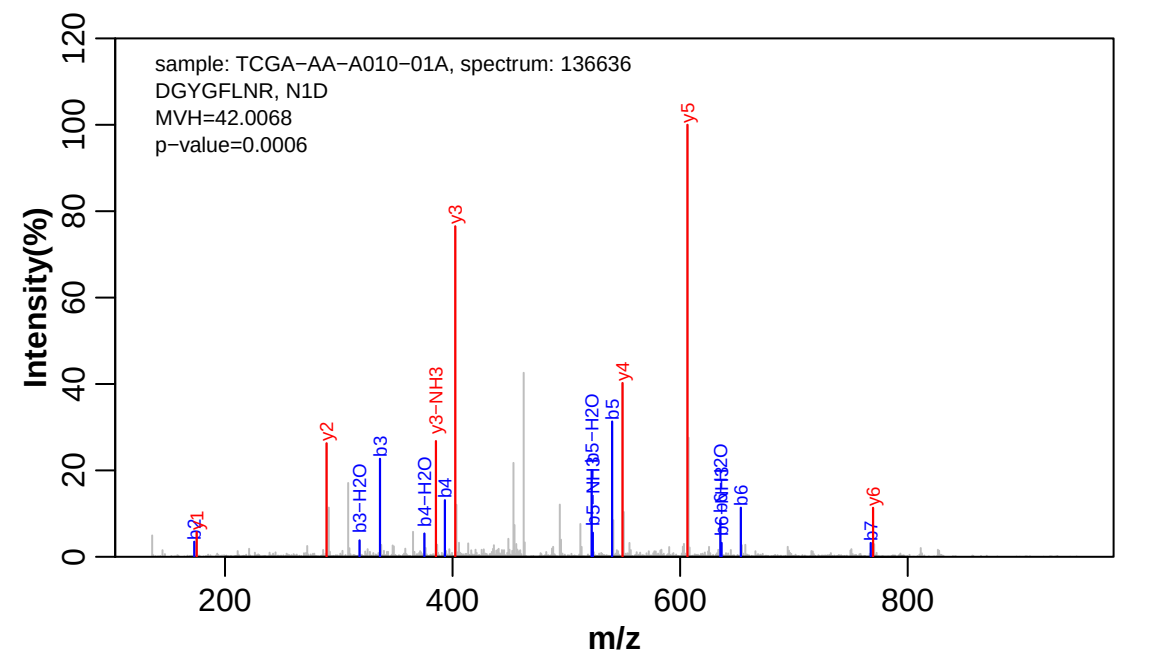

sample: TCGA−AA−A010−01A, spectrum: 11420
AGVETTTPSK, K7T
MVH=54.7554
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7
y7−H2O
y8

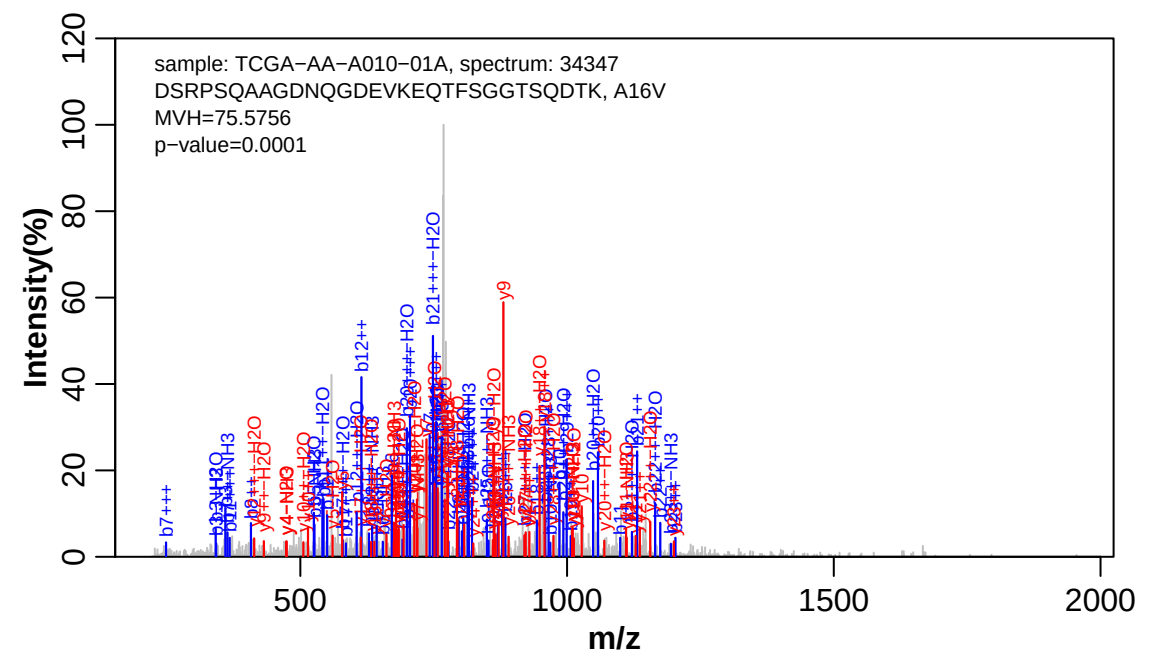

sample: TCGA−AA−A010−01A, spectrum: 74520
ALDRPYTSK, E3D
MVH=34.6341
p−value=0.0001
y7++
b2
b4++
y8++
y4
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z

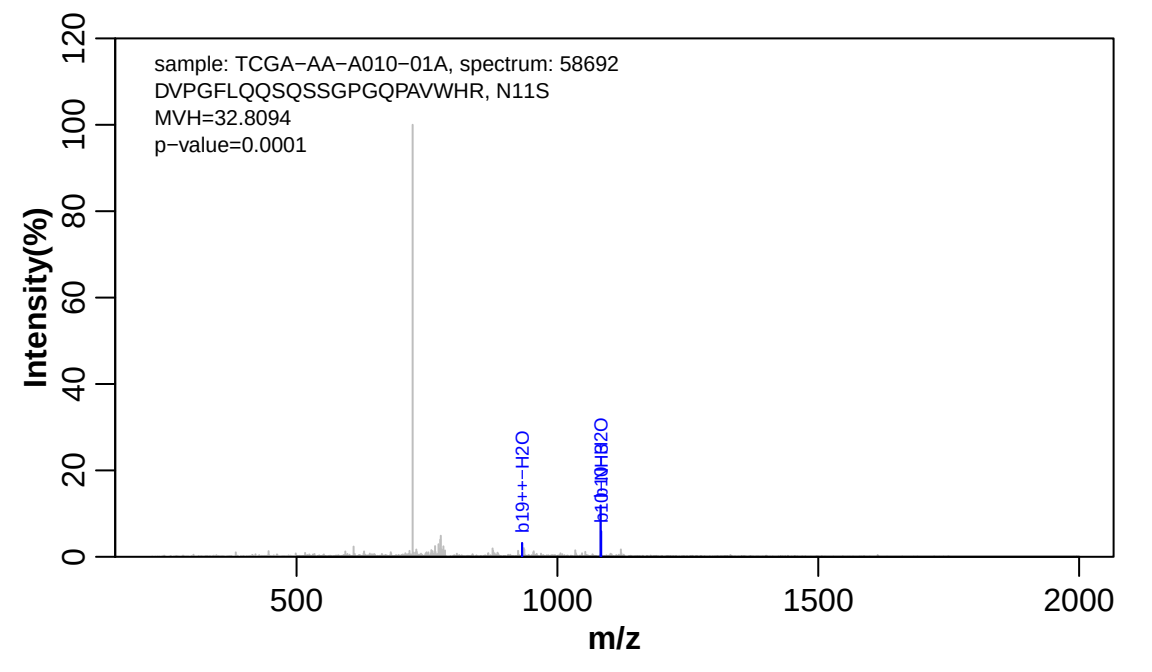

sample: TCGA−AA−A010−01A, spectrum: 90757
APPRPGPVPEAAQPFLFTTR, P19T
MVH=40.2711
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++−H2O
y7++
b10++
y4++
b11++
b12++
b13++−NH3
y3++
b12++−H2O
y12++
b8
b16++
y7−NH3
b18++−H2O
y8
y9
b12
b13

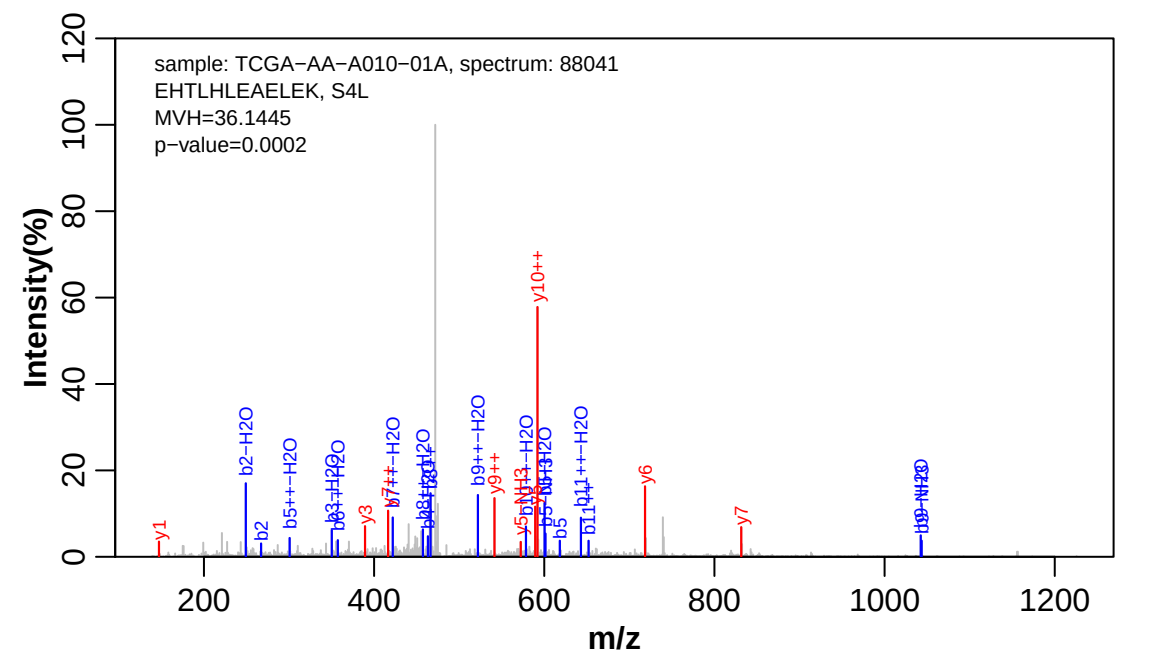

sample: TCGA−AA−A010−01A, spectrum: 148581
ASSSLLLNESEPTTNLQLR, D8N
MVH=63.2270
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6
y5
b7
y6
b9
y8
y9
y10
y11
y12
b14
y13
b16
b18

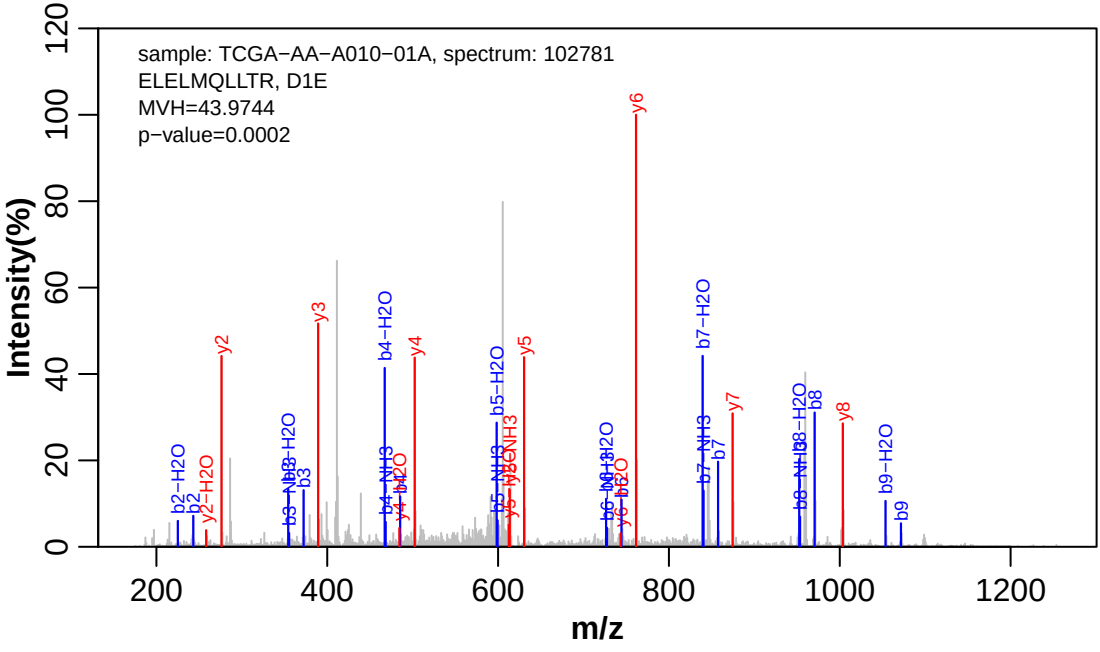

sample: TCGA−AA−A010−01A, spectrum: 18434
DFYVVEPLAFEGTPEQK, I4V
MVH=51.5018
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4−NH3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7
y8−H2O
y8
b8
y9
b9
y10
b10
y11−NH3
y11
b11−H2O
y12−NH3
y12−H2O
b12
y12
y13−NH3
y13
b13
b16

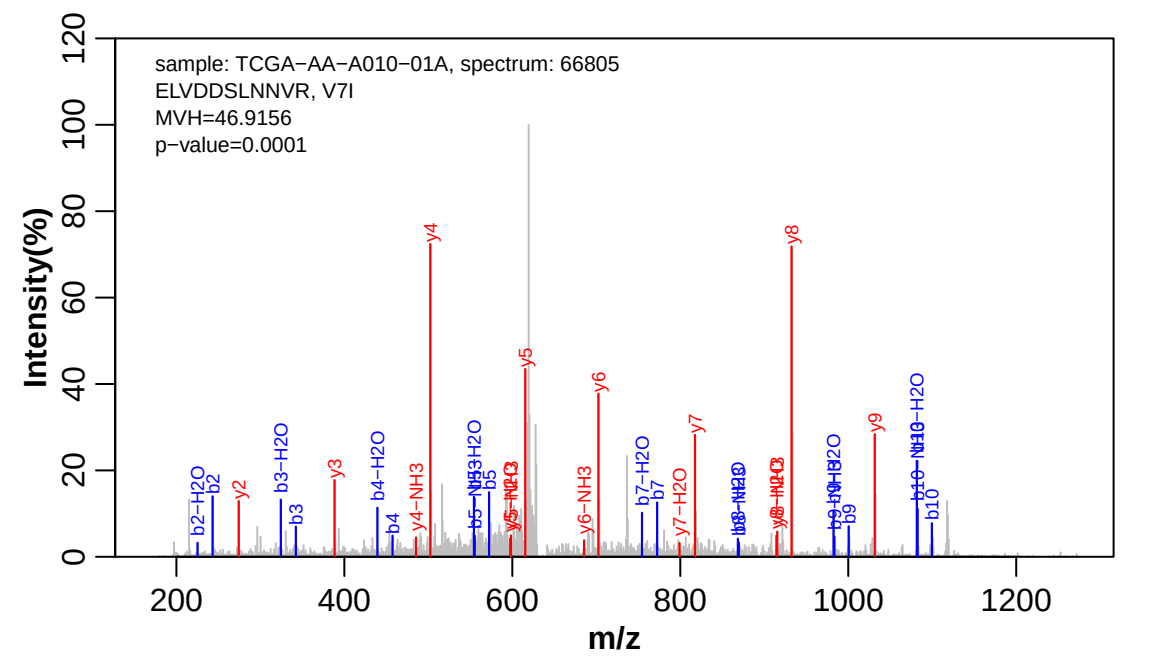

sample: TCGA−AA−A010−01A, spectrum: 136636
DGYGFLNR, N1D
MVH=42.0068
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y4
y2
y3−NH3
b3
b3−H2O
b4−H2O
b4
b5
b5−H2O
b6
y6
b7

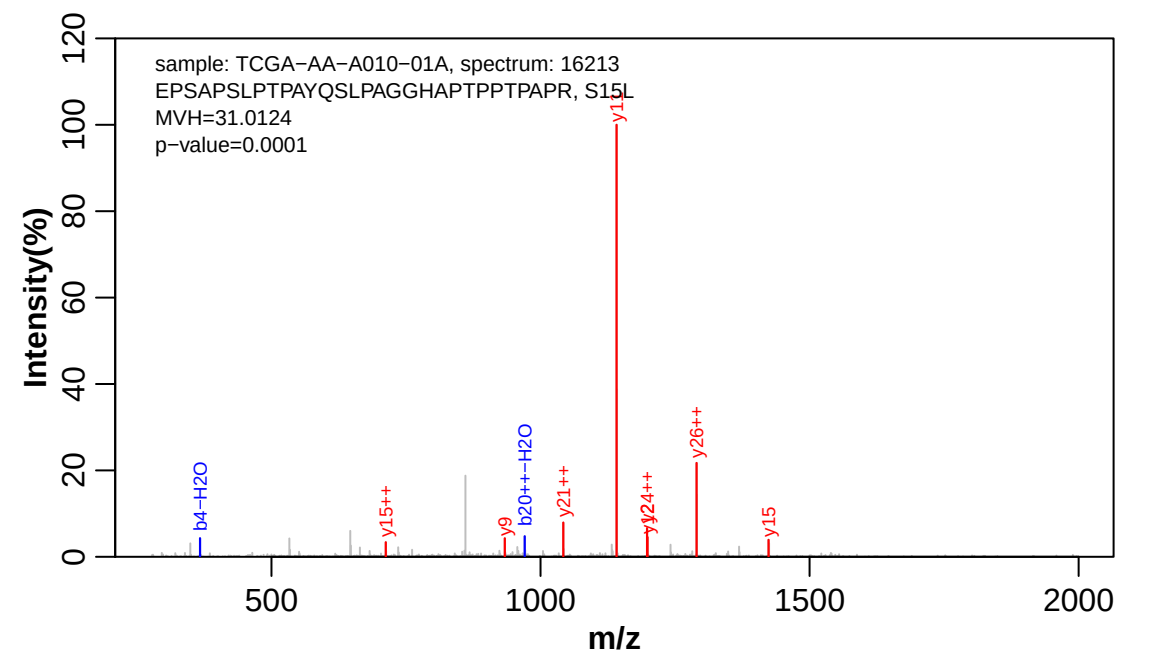

sample: TCGA−AA−A010−01A, spectrum: 34347
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=75.5756
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b7+++
b21+++−H2O
y9
b12++

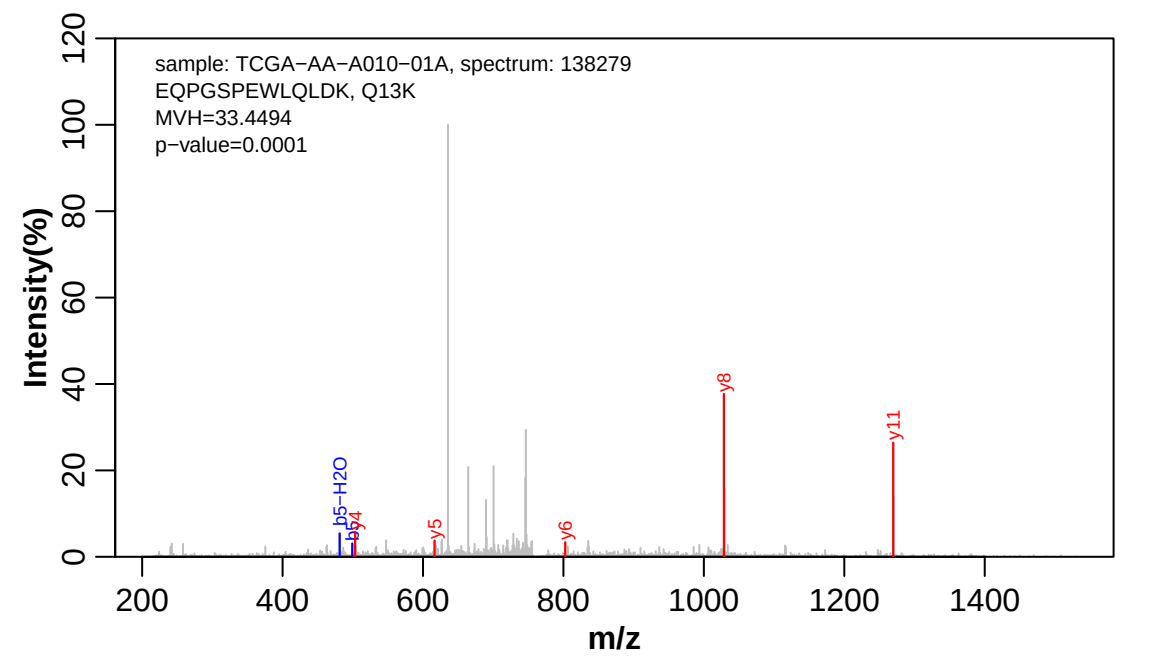

sample: TCGA−AA−A010−01A, spectrum: 58692
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=32.8094
p−value=0.0001
b19++−H2O
b10++−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

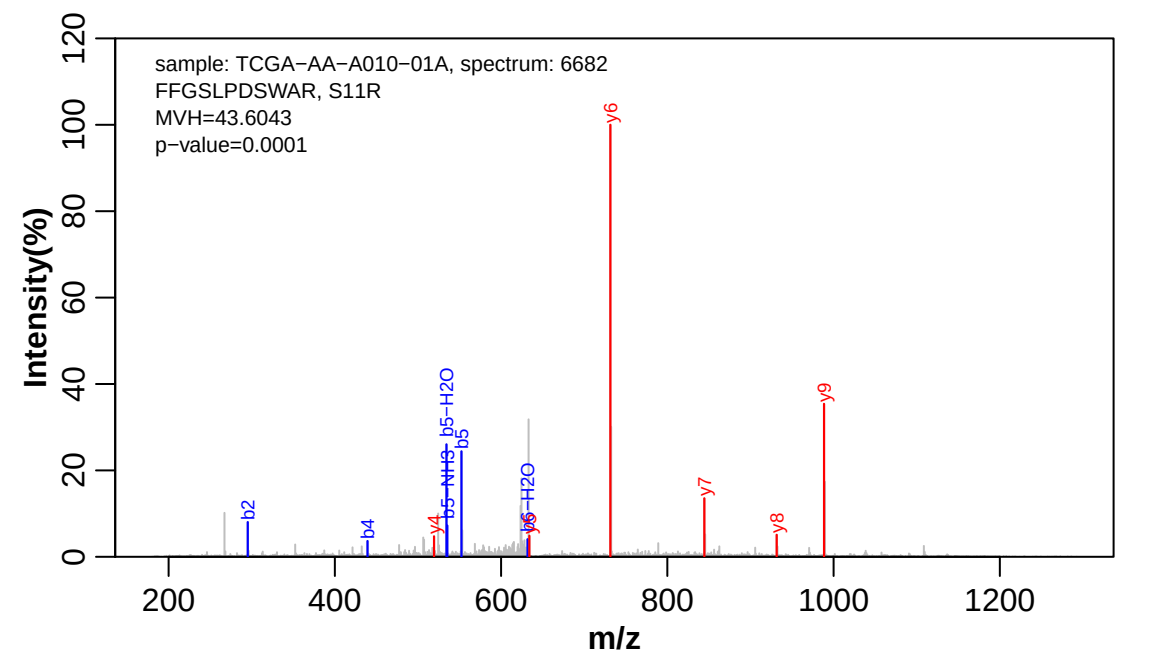

sample: TCGA−AA−A010−01A, spectrum: 88041
EHTLHLEAELEK, S4L
MVH=36.1445
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2−H2O
b2
b5++−H2O
y3
y7++−H2O
b9++−H2O
y9++
y10++
y6
y7
b11++−H2O
b5
b9++−H2O

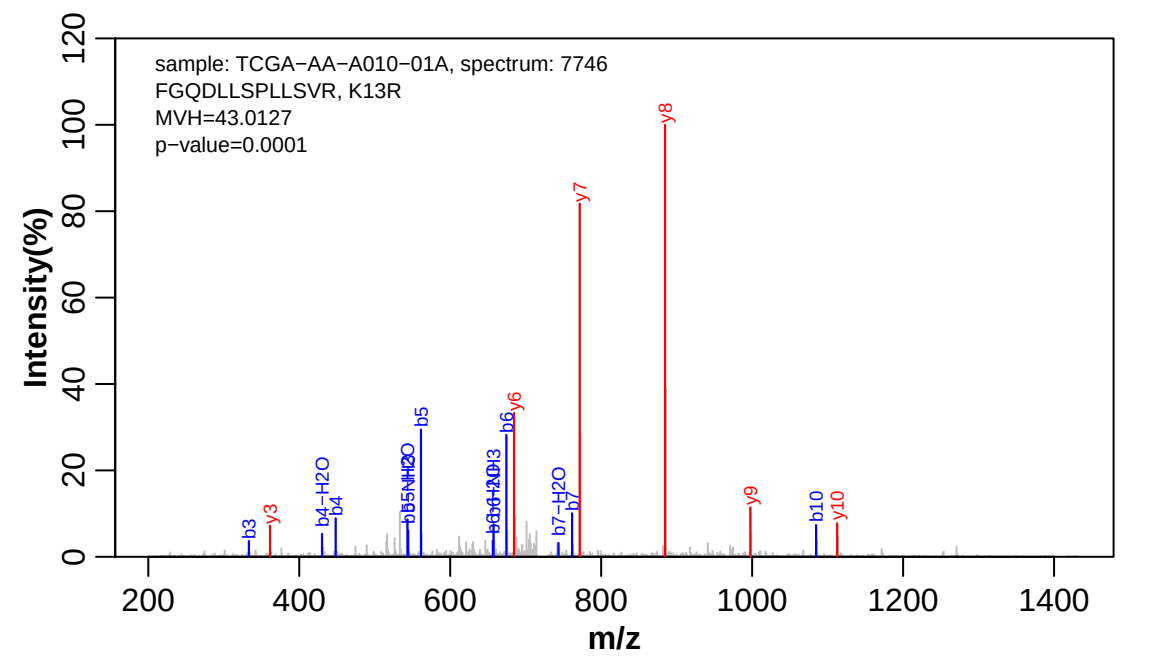

sample: TCGA−AA−A010−01A, spectrum: 102781
ELELMQLLTR, D1E
MVH=43.9744
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y2
y3
y4
y5
y7
y8
b2−H2O
b2
y2−H2O
b3−NH3
b3−H2O
b3
b4−H2O
b4−NH3
b4
y4−H2O
y4
b5−H2O
b5−NH3
b5
y5−NH3
y5
y5−H2O
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−H2O
b7−NH3
b7
b8−NH3
b8−H2O
b8
b9−H2O
b9

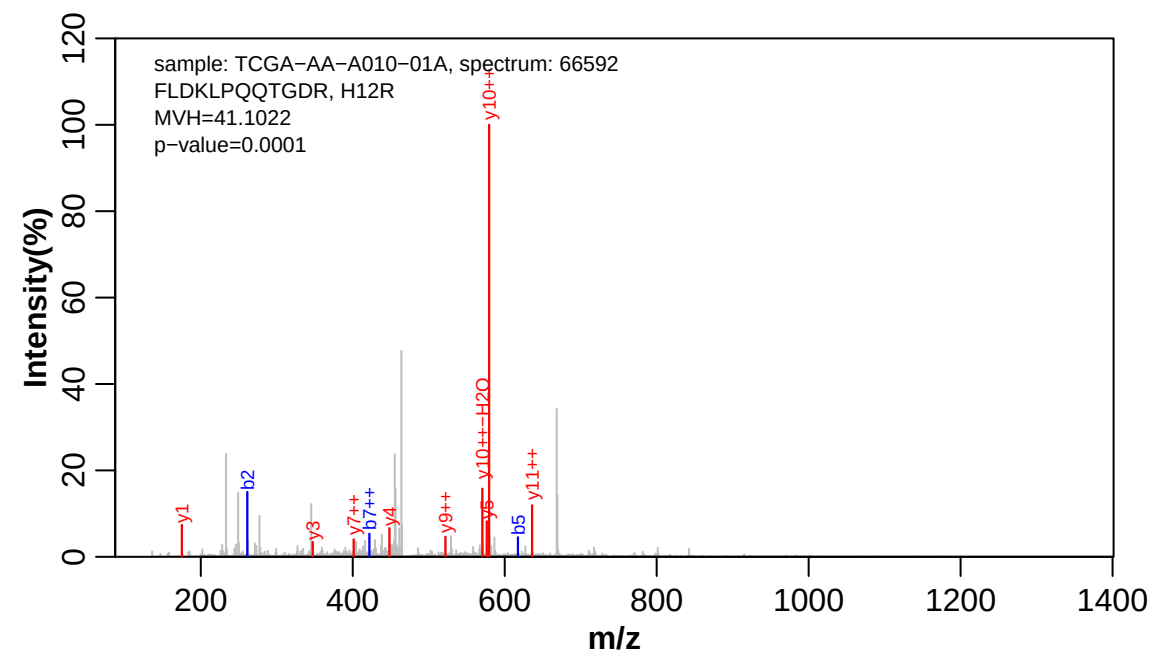

sample: TCGA−AA−A010−01A, spectrum: 66805
ELVDDSLNNVR, V7I
MVH=46.9156
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
y6−NH3
y6
b7−H2O
b7
y7−H2O
y7
y8
y9
b9
b10−NH3
b10−H2O
b10

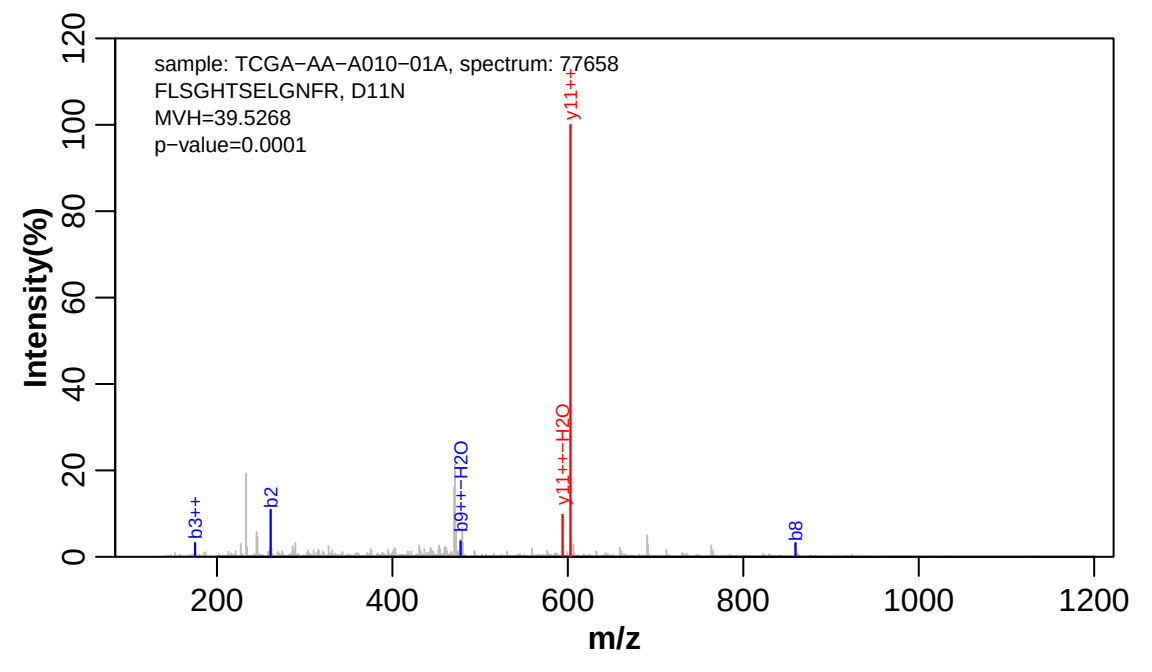

sample: TCGA−AA−A010−01A, spectrum: 16213
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=31.0124
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y15++
y9
b20++−H2O
y21++
y11
y24++
y26++
y15

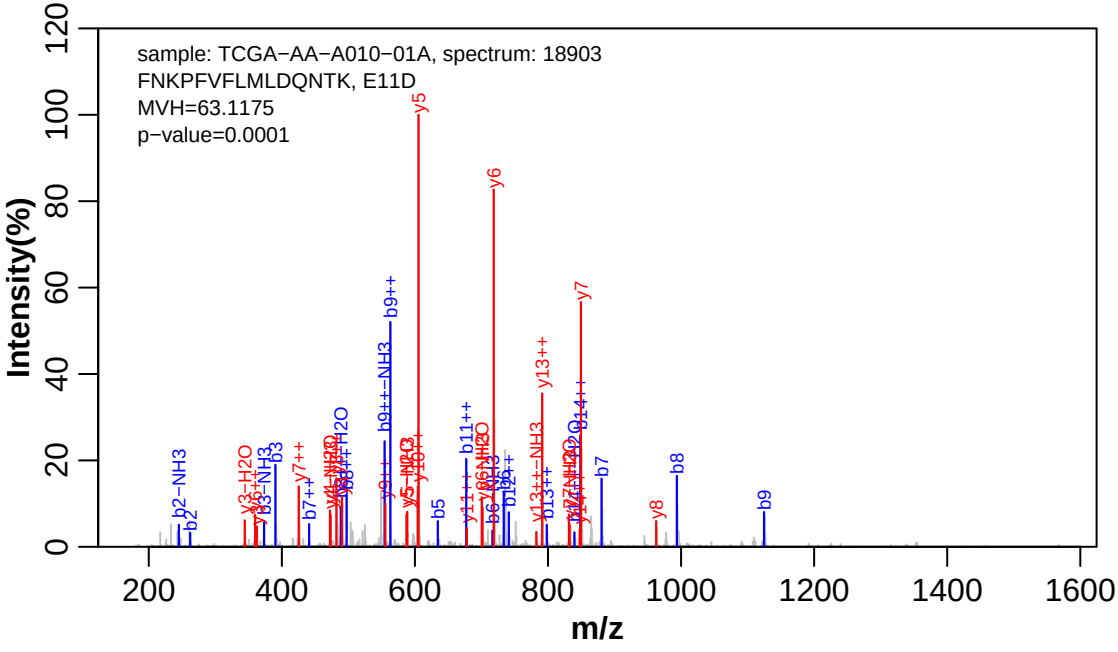

sample: TCGA−AA−A010−01A, spectrum: 138279
EQPGSPEWLQLDK, Q13K
MVH=33.4494
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
b5
b4
y5
y6
y8
y11

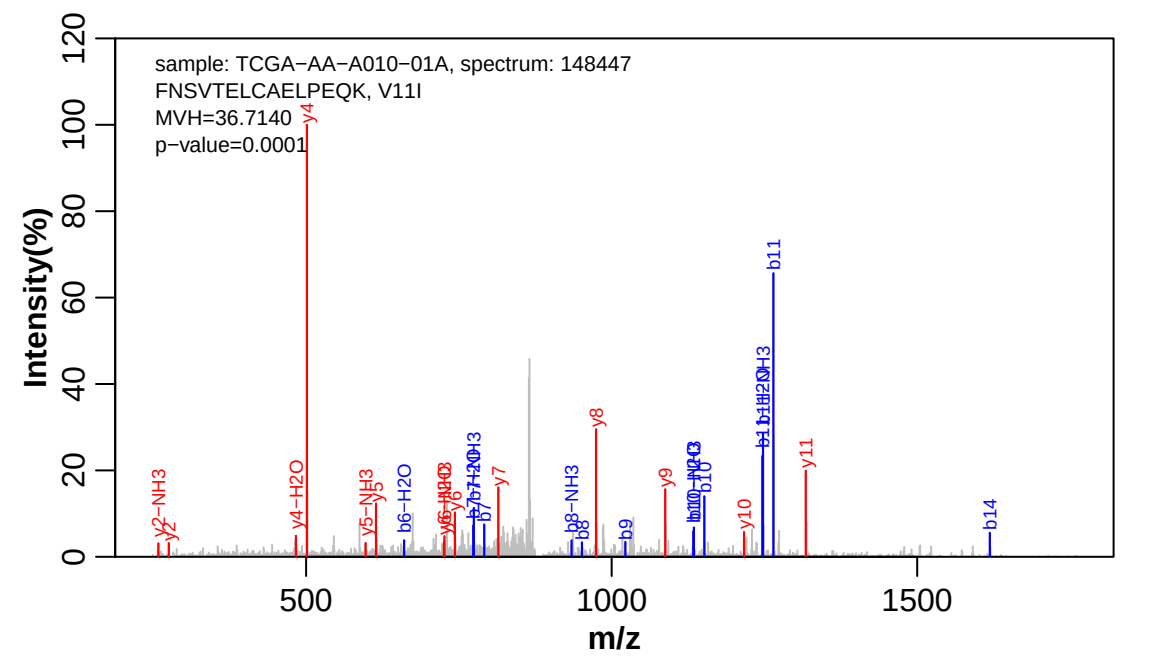

sample: TCGA−AA−A010−01A, spectrum: 6682
FFGSLPDSWAR, S11R
MVH=43.6043
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
y6−H2O
y6
y7
y8
y9

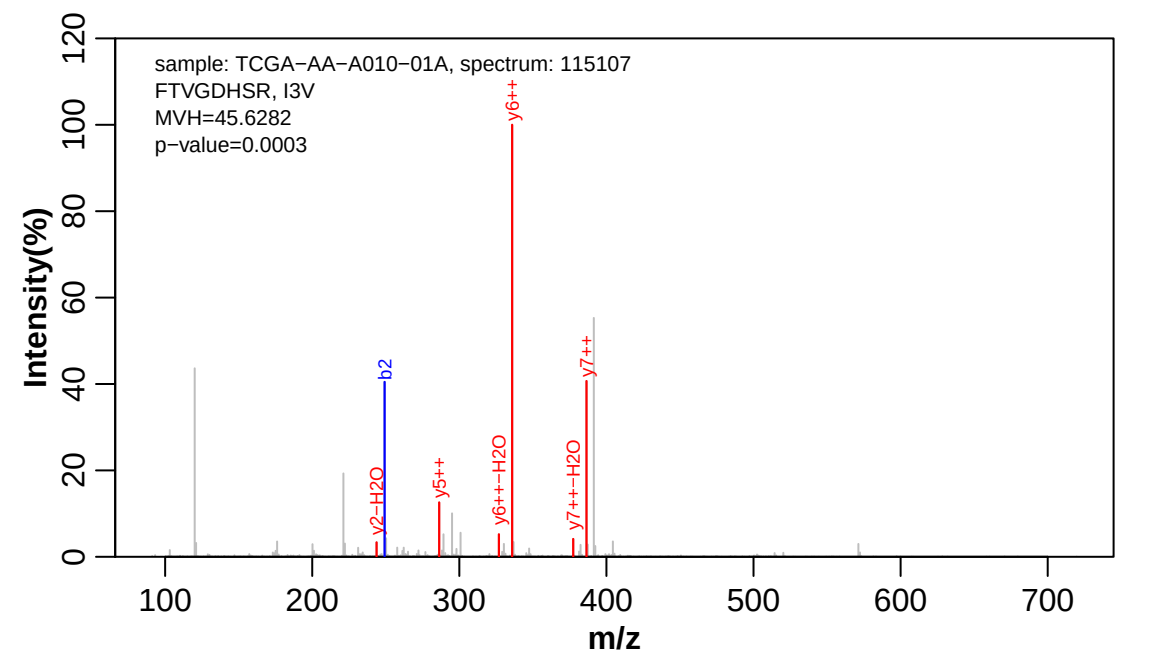

sample: TCGA−AA−A010−01A, spectrum: 7746
FGQDLLSPLLSVR, K13R
MVH=43.0127
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

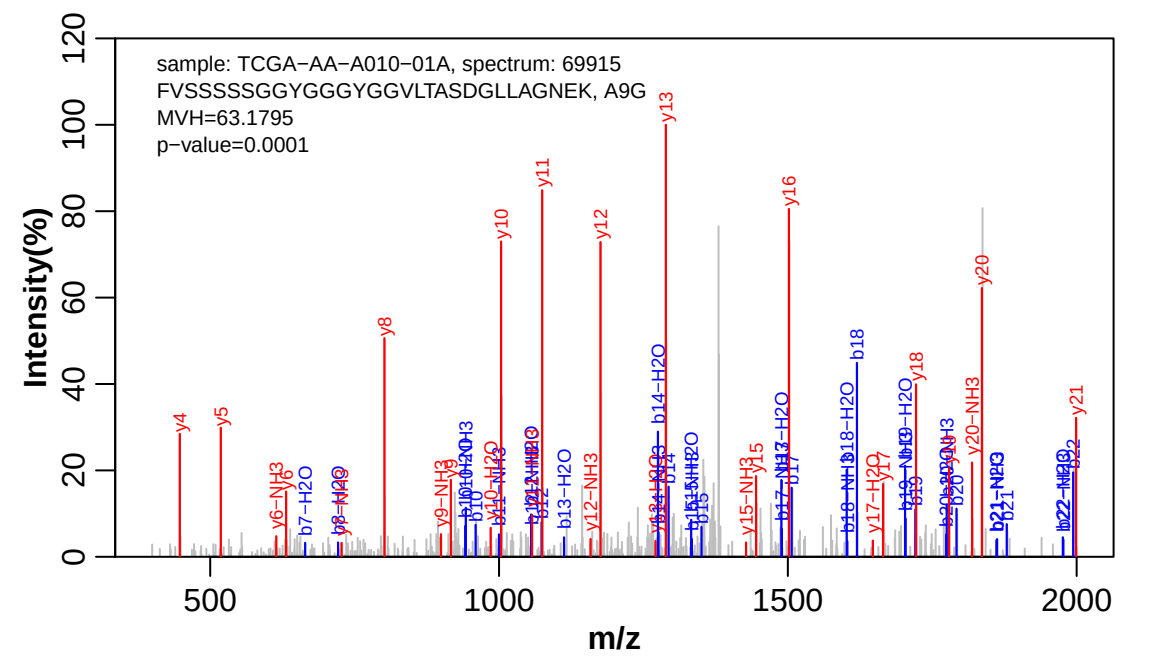

sample: TCGA−AA−A010−01A, spectrum: 66592
FLDKLPQQTGDR, H12R
MVH=41.1022
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b2
y1
y3
y7++
b7++
y4
y9++
y6
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

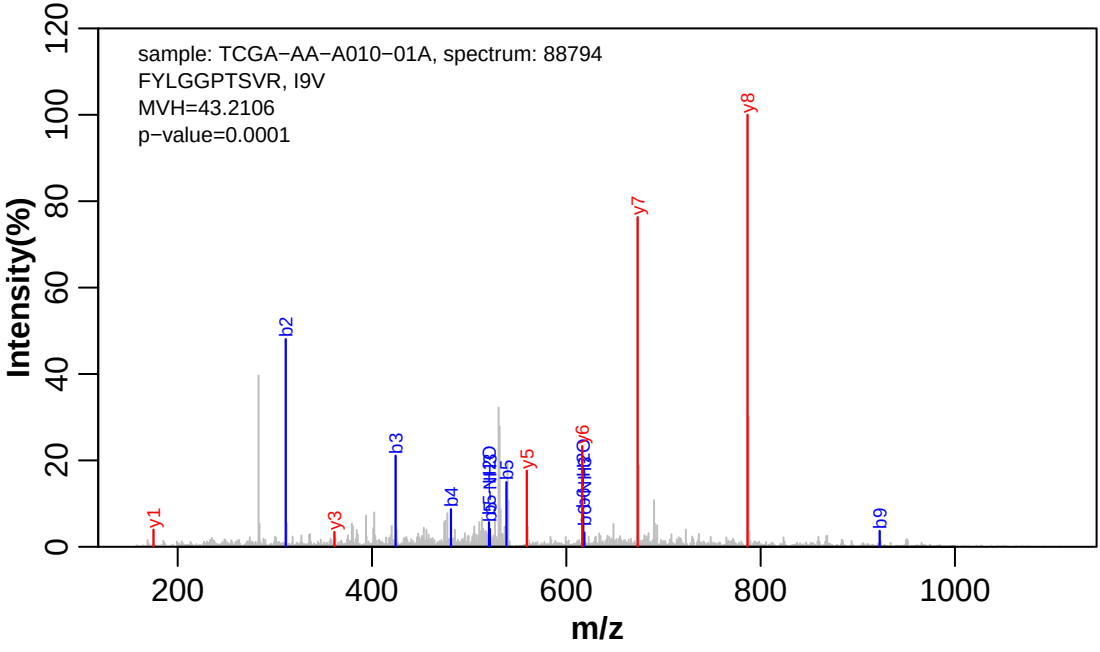

sample: TCGA−AA−A010−01A, spectrum: 77658
FLSGHTSELGNFR, D11N
MVH=39.5268
p−value=0.0001
y11++
y11++−H2O
b9++−H2O
b2
b3++
b8
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

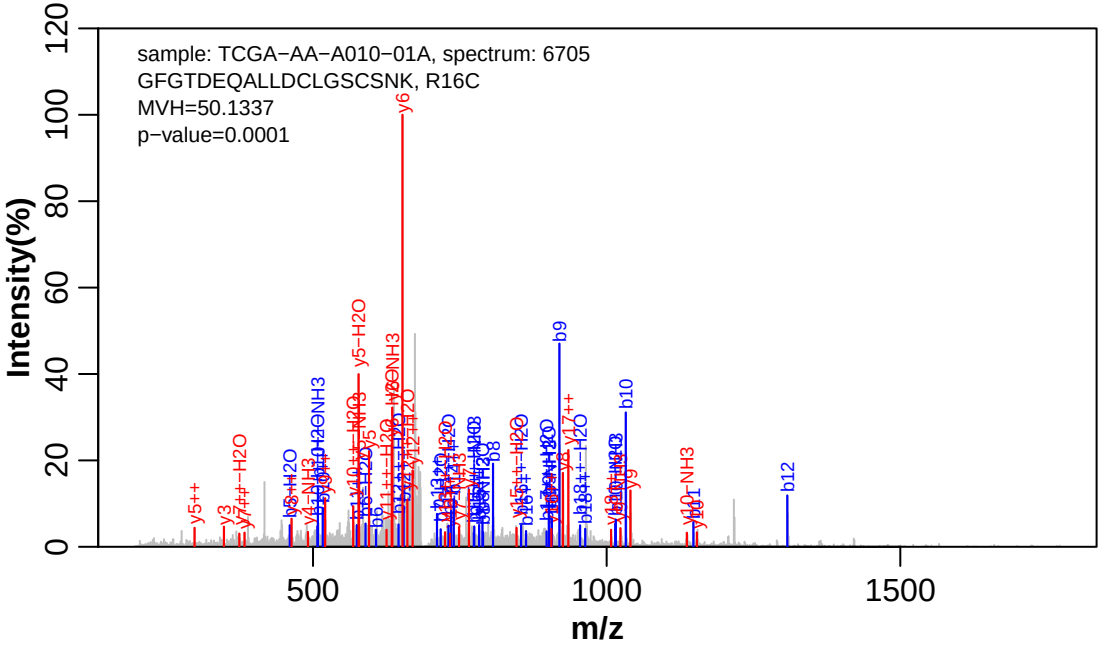

sample: TCGA−AA−A010−01A, spectrum: 18903
FNKPFVFLMLDQNTK, E11D
MVH=63.1175
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b9
b8
b7
b5
b9++
b9++−NH3
y13++
y13++−NH3
b11++
b2−NH3
b2
b3
y3−H2O
b3−NH3
y7++
b7++
b14++

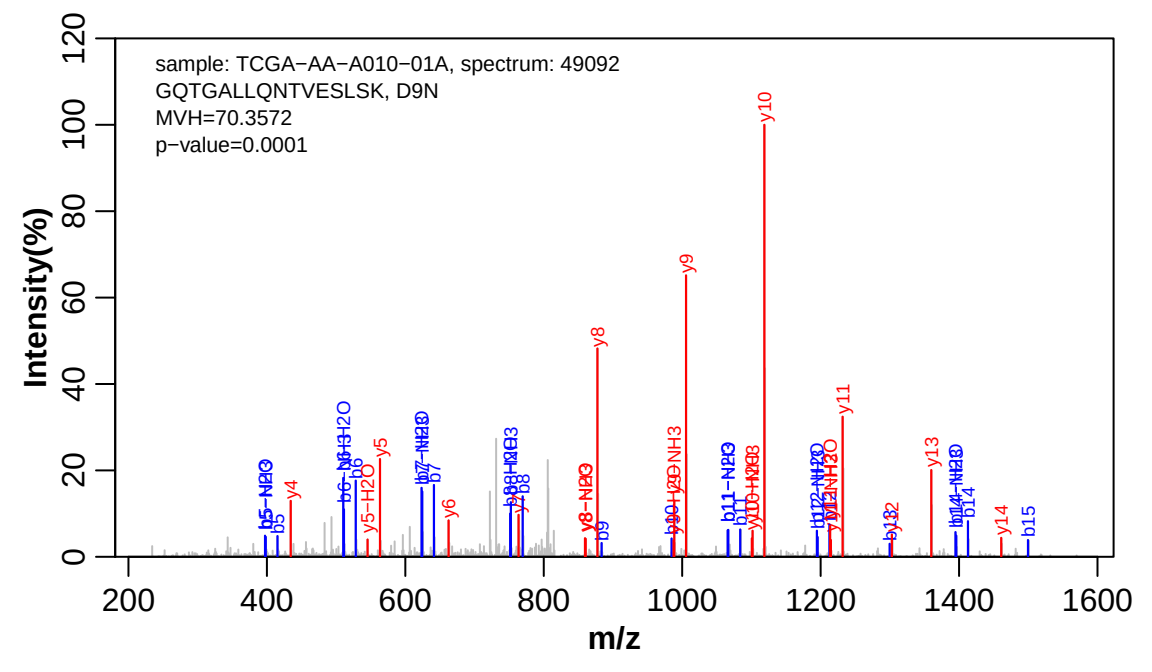

sample: TCGA−AA−A010−01A, spectrum: 148447
FNSVTELCAELPEQK, V11I
MVH=36.7140
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y4−H2O
y2−NH3
y2
y5−NH3
y5
b6−H2O
y8
y7
b8−NH3
b8
b9
y9
b10
y10
b11
y11
b14

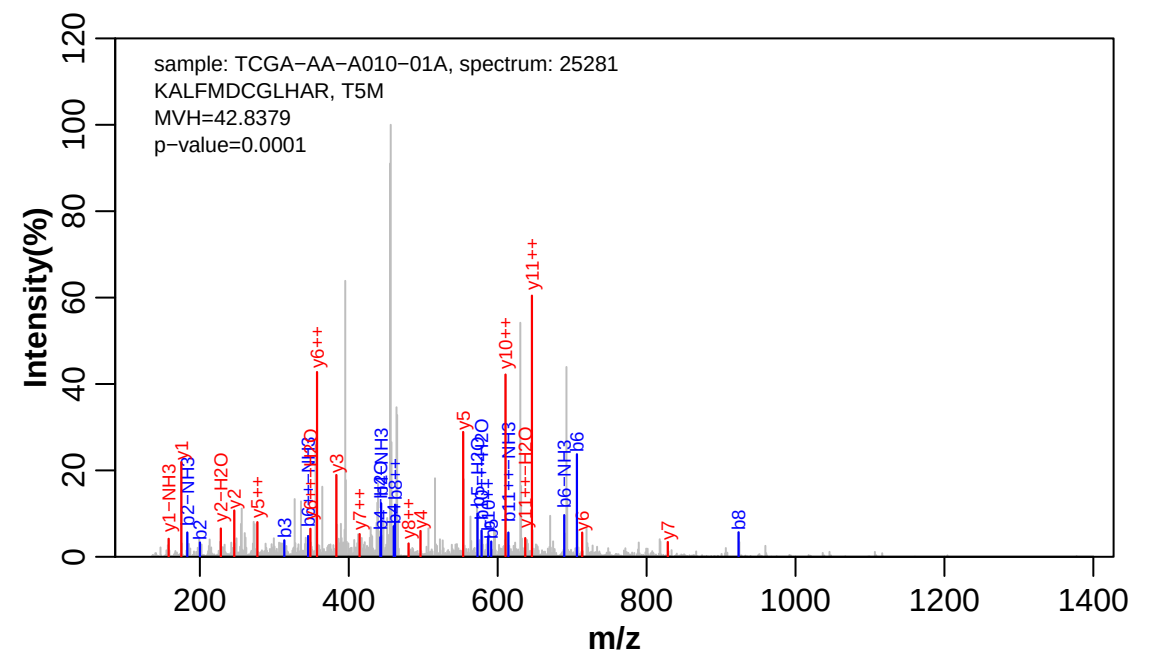

sample: TCGA−AA−A010−01A, spectrum: 115107
FTVGDHSR, I3V
MVH=45.6282
p−value=0.0003
Intensity(%)
m/z
b2
y2−H2O
y5++
y6++−H2O
y6++
y7++−H2O
y7++

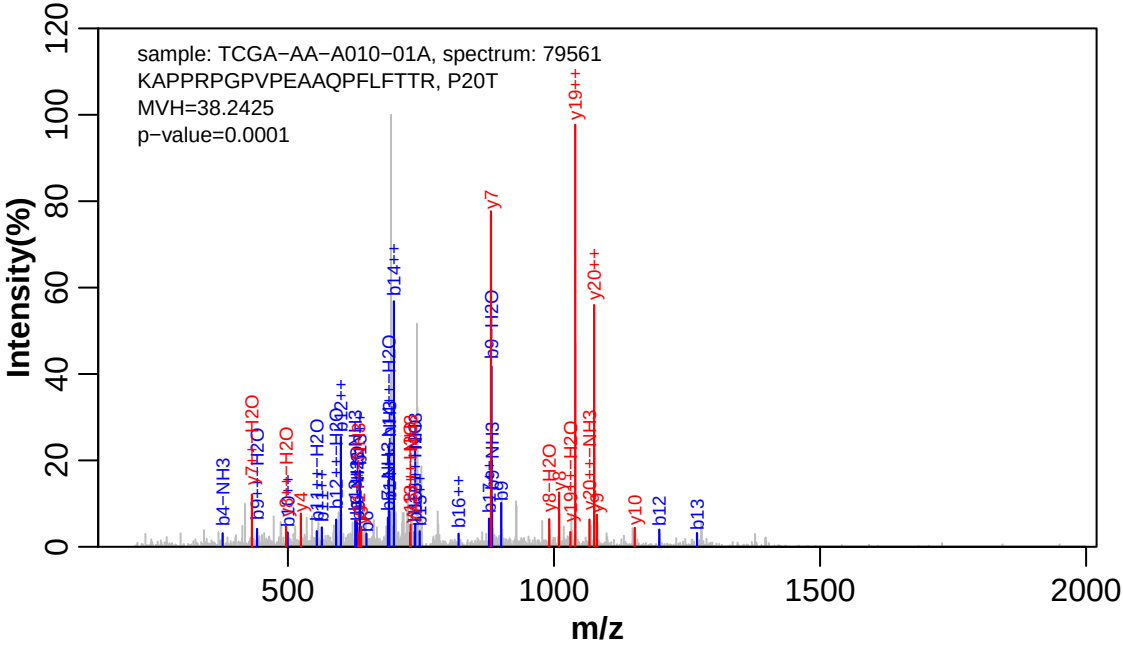

sample: TCGA−AA−A010−01A, spectrum: 69915
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=63.1795
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6−NH3
y6
b7−H2O
y8
y9−NH3
y9
y10
y10−NH3
y11
y12
y12−NH3
b13−H2O
y13
b14−H2O
y15
y15−NH3
y16
b17−H2O
b18
b18−H2O
y17
y17−H2O
y18
y20
y20−NH3
y21

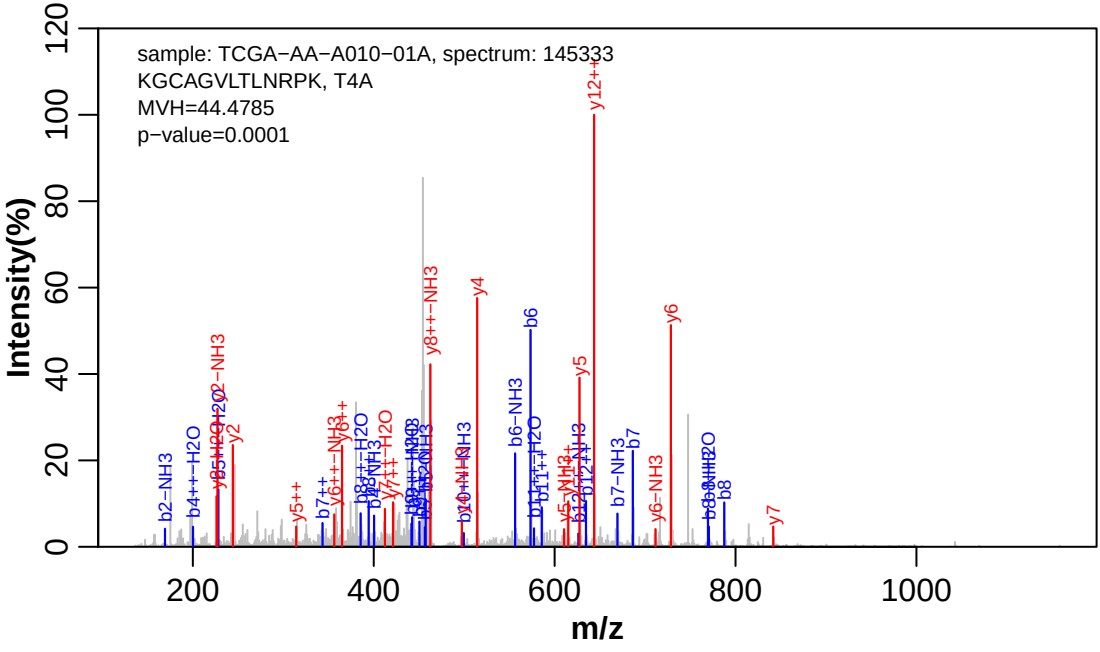

sample: TCGA−AA−A010−01A, spectrum: 88794
FYLGGPTSVR, I9V
MVH=43.2106
p−value=0.0001
Intensity(%)
m/z
y1
b2
y3
b3
b4
b5
y5
y7
y8
b9

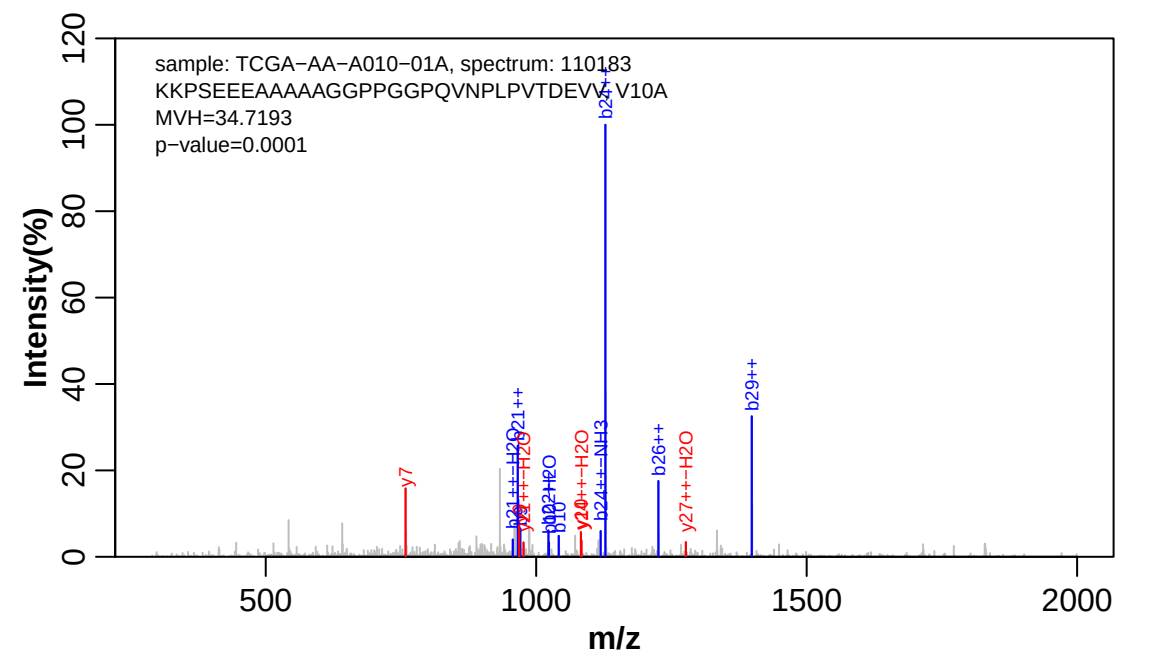

sample: TCGA−AA−A010−01A, spectrum: 6705
GFGTDEQALLDCLGSCSNK, R16C
MVH=50.1337
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5−NH3
b9
b10
b12
y5++
y3
y7++−H2O
b5−H2O
y4−NH3
b8
y10−NH3
y9

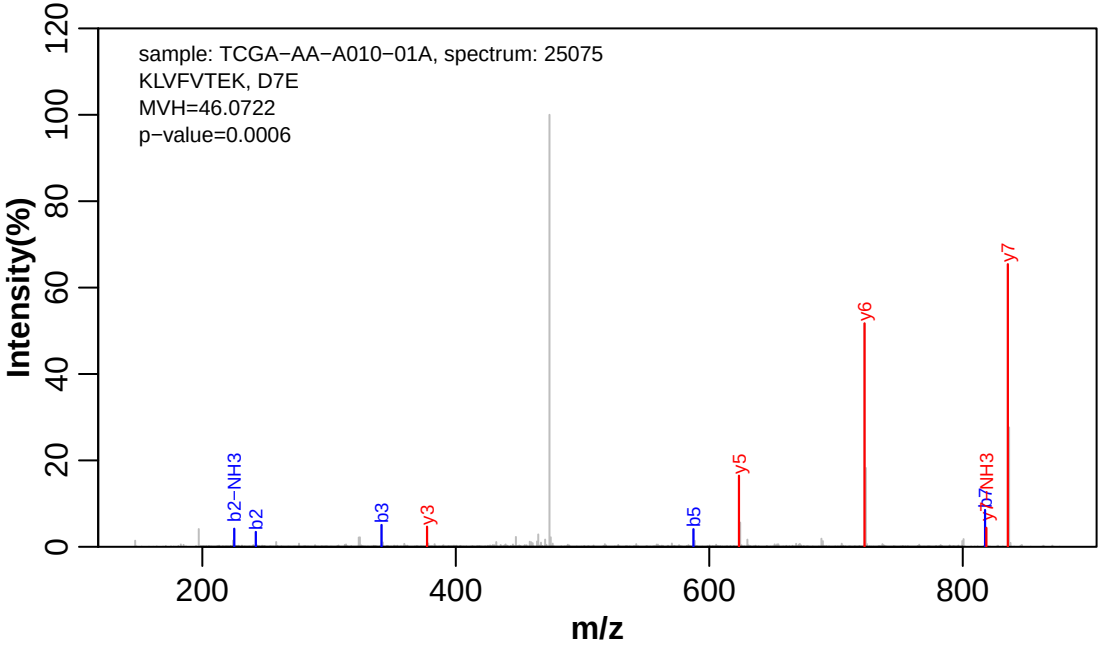

sample: TCGA−AA−A010−01A, spectrum: 49092
GQTGALLQNTVESLSK, D9N
MVH=70.3572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y4
y6
y14
b15

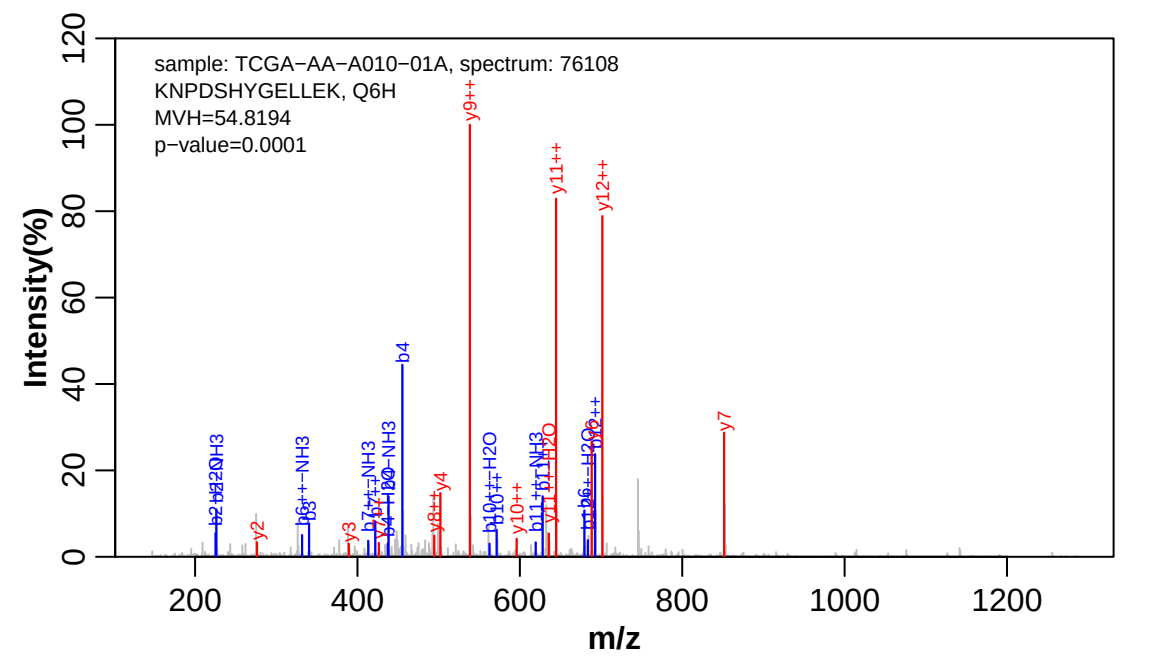

sample: TCGA−AA−A010−01A, spectrum: 25281
KALFMDCGLHAR, T5M
MVH=42.8379
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1−NH3
y1
b2−NH3
b2
y2−H2O
y2
y5++
b3
y6++
y3
y7++
y4
y8++
y5
y10++
y11++
b6−NH3
b6
y6
y7
b8

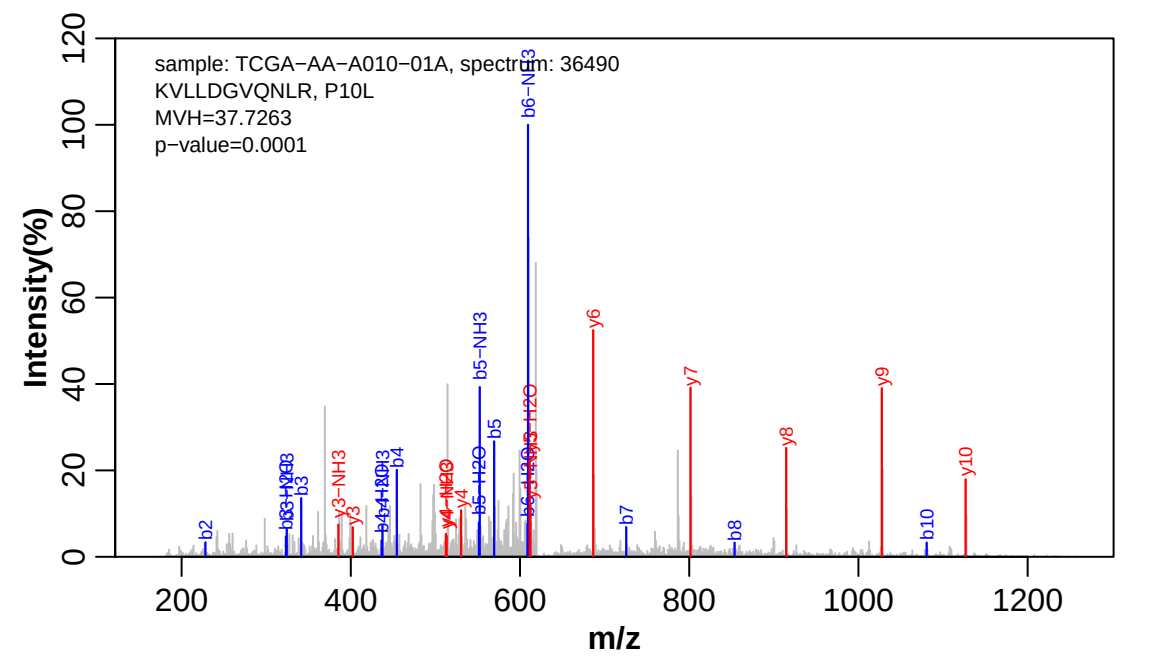

sample: TCGA−AA−A010−01A, spectrum: 79561
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=38.2425
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−NH3
b9+ y7−H2O
y7−H2O
b10++
y10++−H2O
y4
b11++−H2O
b12++−H2O
b14++
y7
b9−H2O
y19++
y20++
b16++
b17++−NH3
b9
y8−H2O
y19++−H2O
y20++−NH3
y10
b12
b13

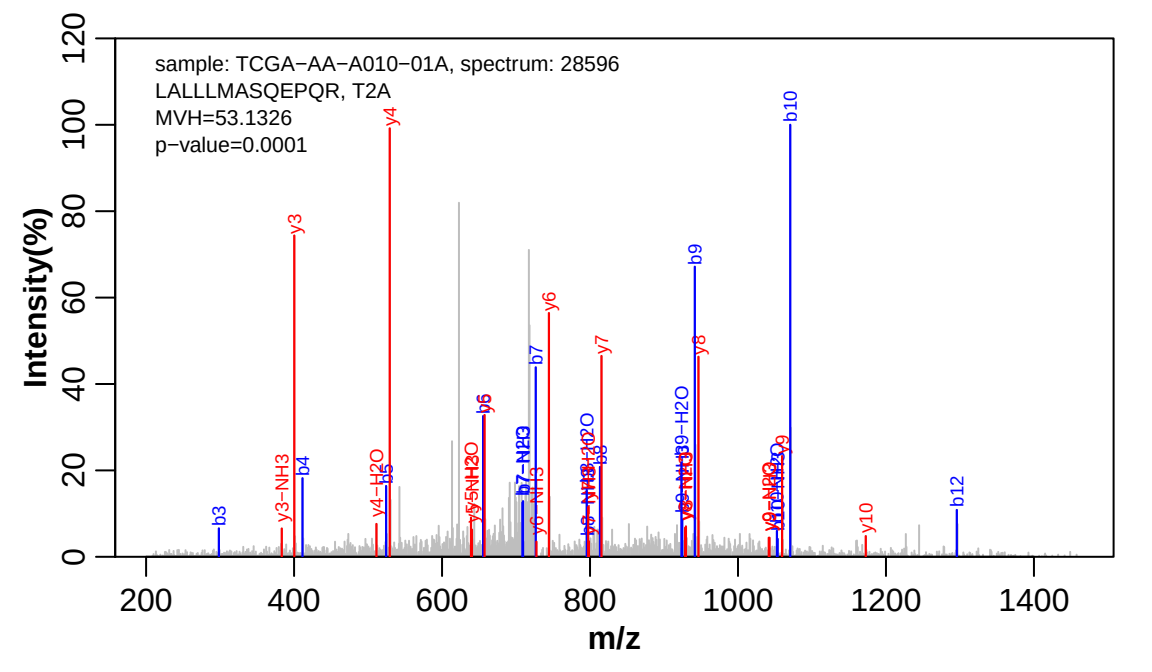

sample: TCGA−AA−A010−01A, spectrum: 145333
KGCAGVLTLNRPK, T4A
MVH=44.4785
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y12++
y8++−NH3
y4
b6
y6
y5
b6−NH3
b7
b7−NH3
y6−NH3
y7
b8
b2−NH3
b4++−H2O
y2
y5++
b7++
y6++−NH3
y6
b8++−H2O
b8++−NH3
y7++−H2O
b10++−NH3
b11++−H2O
b12++−NH3
y5−NH3
b8−H2O
b8−NH3

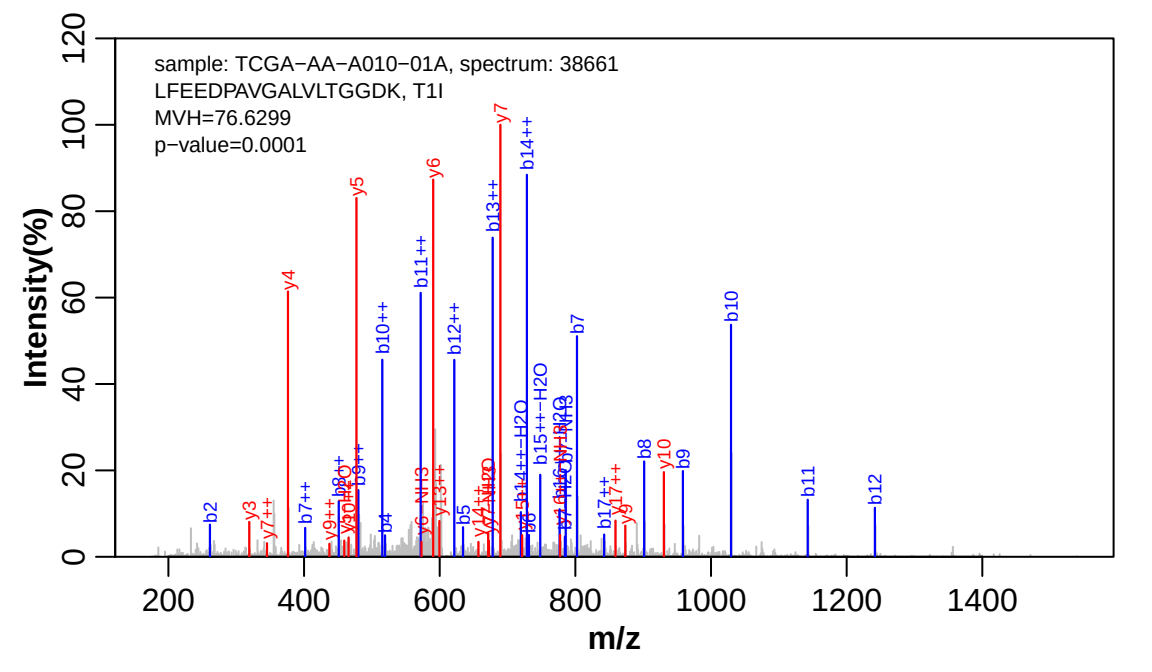

sample: TCGA−AA−A010−01A, spectrum: 110183
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=34.7193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
y7
b21++−H2O
b21++−H2O
y21++−H2O
b10
b10−H2O
y20++−H2O
b24++−NH3
b26++
y27++−H2O
b29++

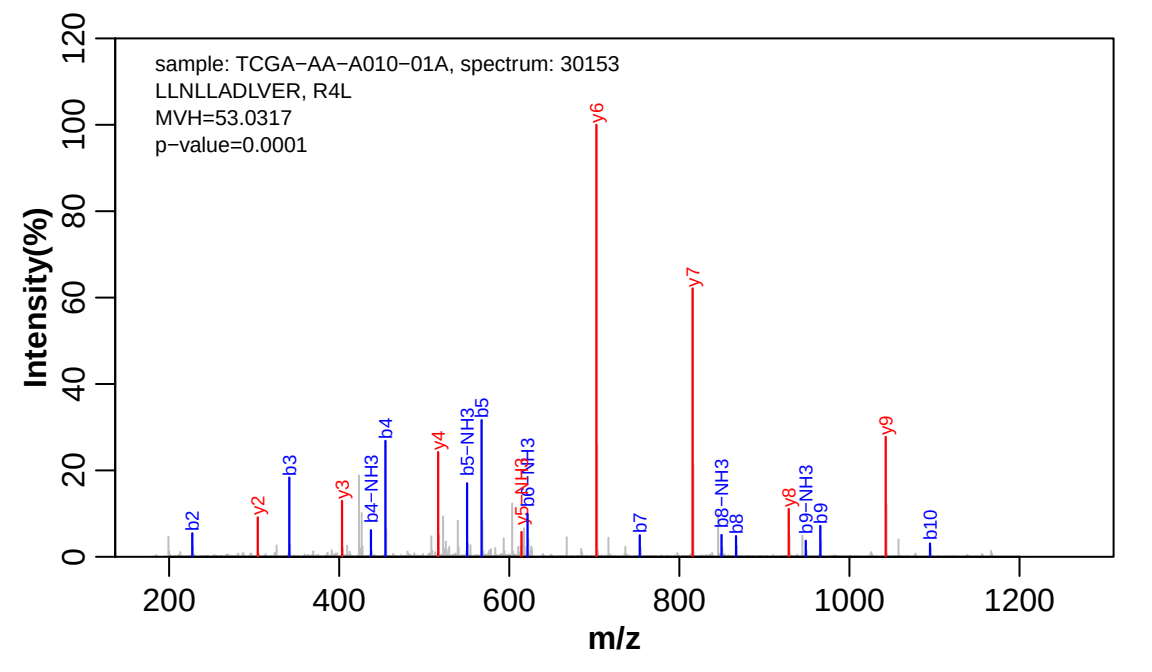

sample: TCGA−AA−A010−01A, spectrum: 25075
KLVFVTEK, D7E
MVH=46.0722
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−NH3
b2
b3
y3
b5
y5
y6
y7
y7NH3

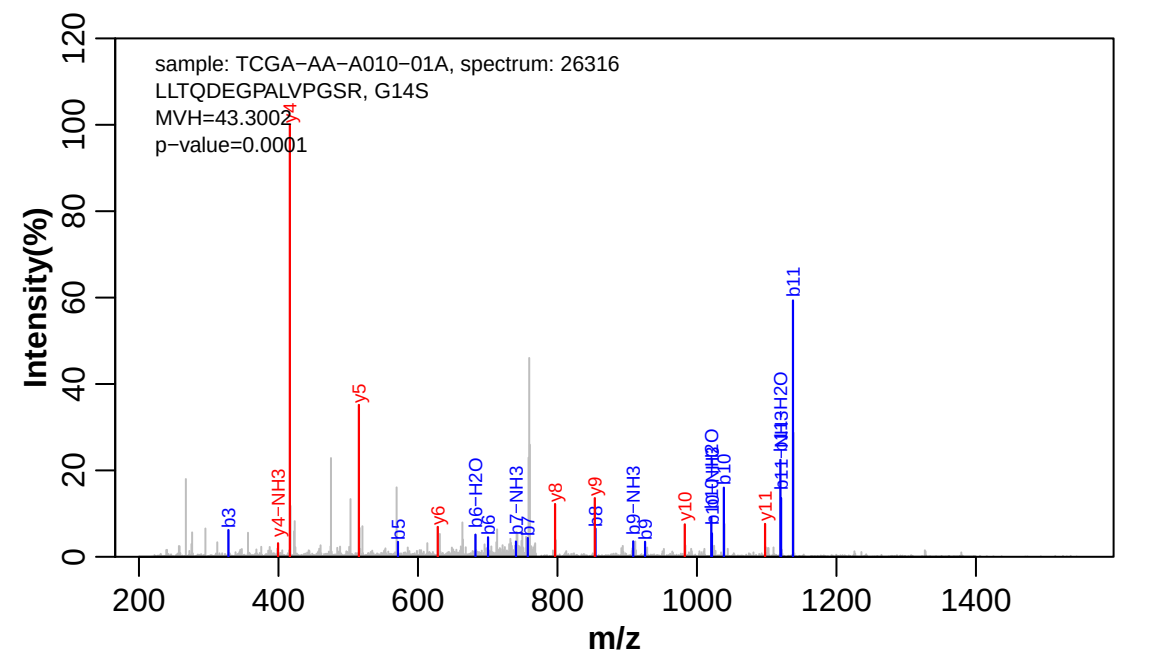

sample: TCGA−AA−A010−01A, spectrum: 76108
KNPDSHYGELLEK, Q6H
MVH=54.8194
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9++
y11++
y12++
b4
y7
y2
y3
y4
y10++
b10++−H2O
b10++−NH3
b11++−H2O
b11++−NH3
y11++−H2O
y11++−NH3
y12++−H2O
y12++−NH3

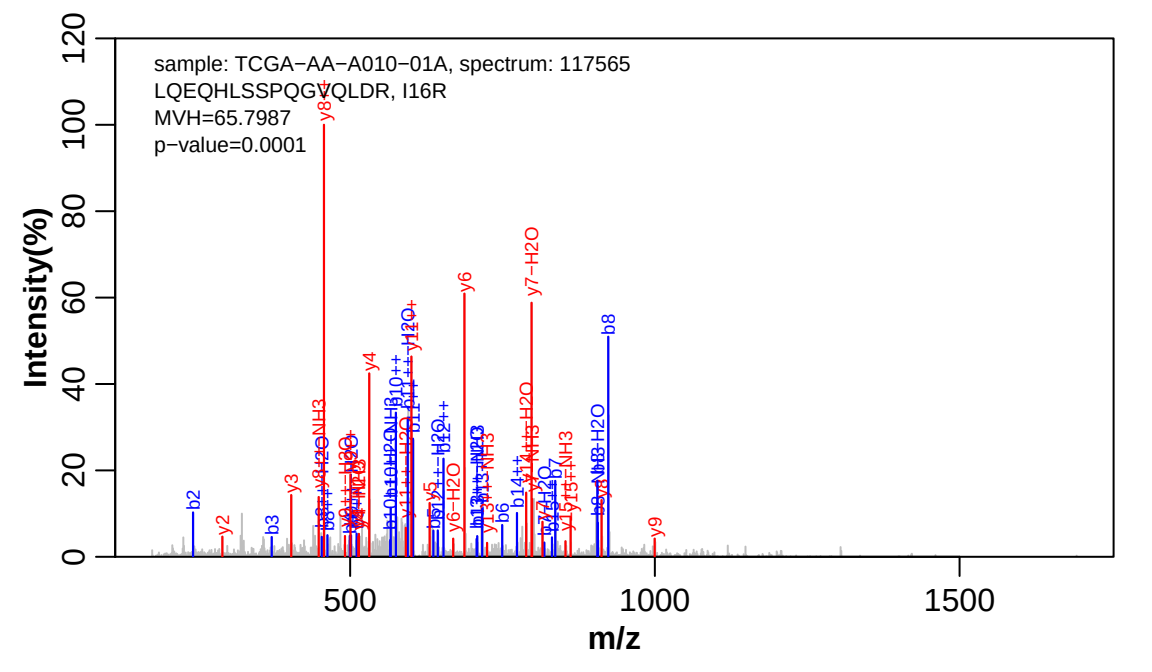

sample: TCGA−AA−A010−01A, spectrum: 36490
KVLLDGVQNLR, P10L
MVH=37.7263
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b6−NH3
y6
b5−NH3
y7
y9
y8
y10
b5
b5−H2O
b4
y3−NH3
y3
b3
b2
b7
b8
b10

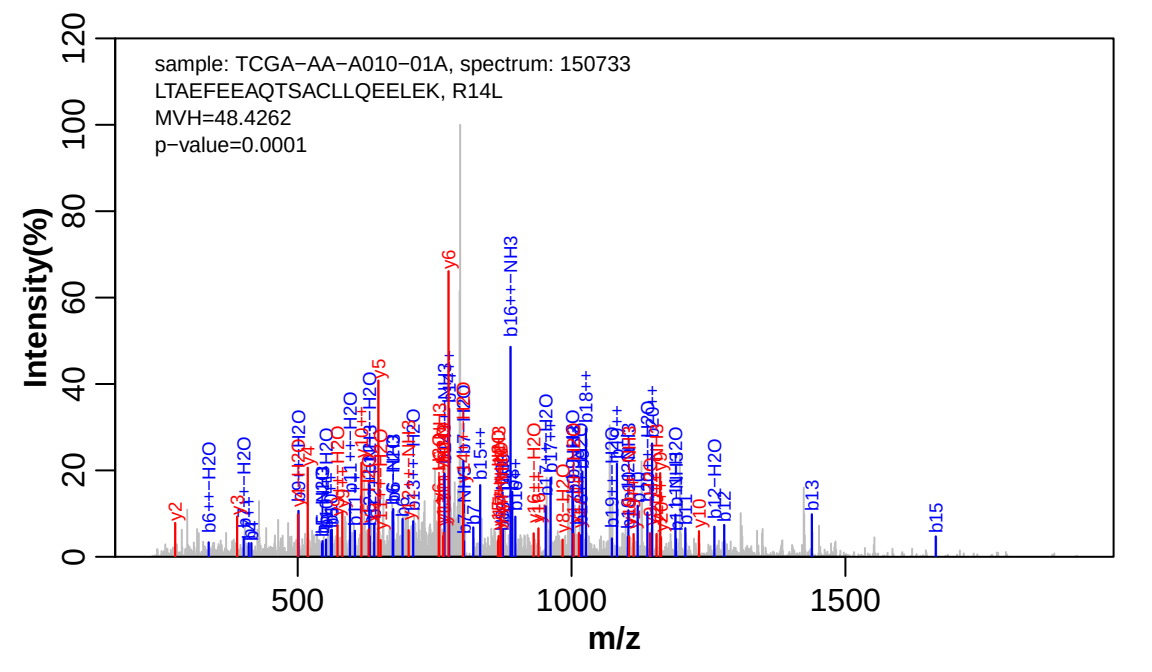

sample: TCGA−AA−A010−01A, spectrum: 28596
LALLLMASQEPQR, T2A
MVH=53.1326
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3−NH3
y3
b4
y4−H2O
y4
b5
y5−NH3
y5−H2O
y5
b6
b7−NH3
b7−H2O
b7
y6−NH3
y6
b8
y7
y8
b9
b10
y10
b12

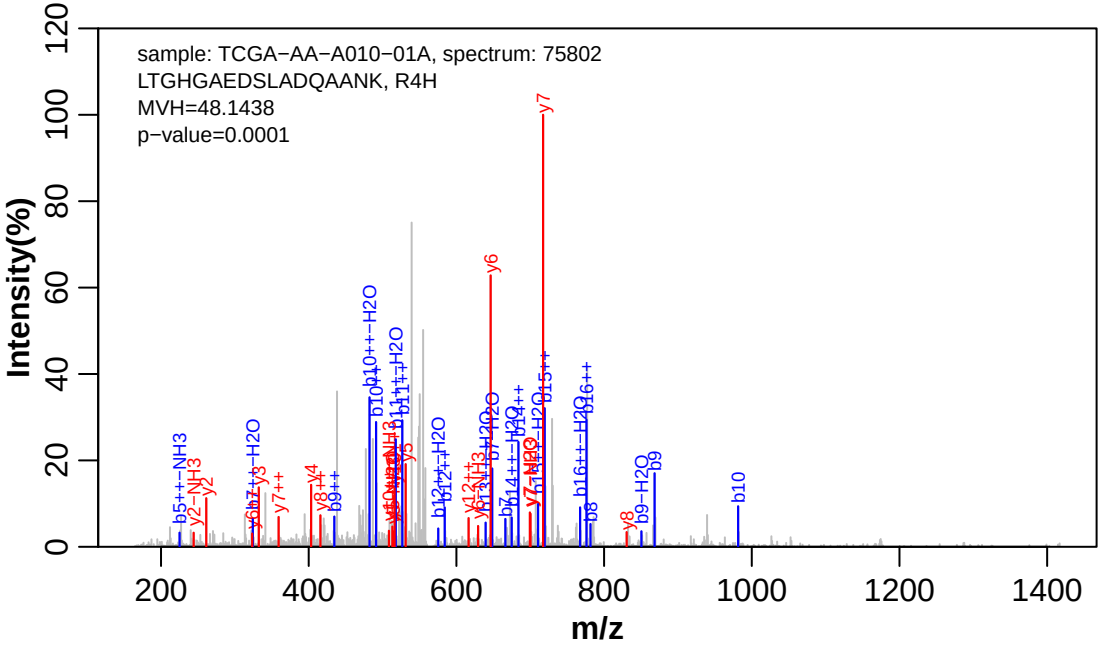

sample: TCGA−AA−A010−01A, spectrum: 38661
LFEEDPAVGALVLTGGDK, T1I
MVH=76.6299
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y7++
y4
b7++
y9++
b8++
y10−H2O
b9++
b4
y6−NH3
y13++
b10++
y5
b11++
y6
b5
y12++
b12++
y7
b13++
b14++
b15++−H2O
b14++−H2O
b7
b10
b8
y10
b9
b17++
y17++
b11
b12

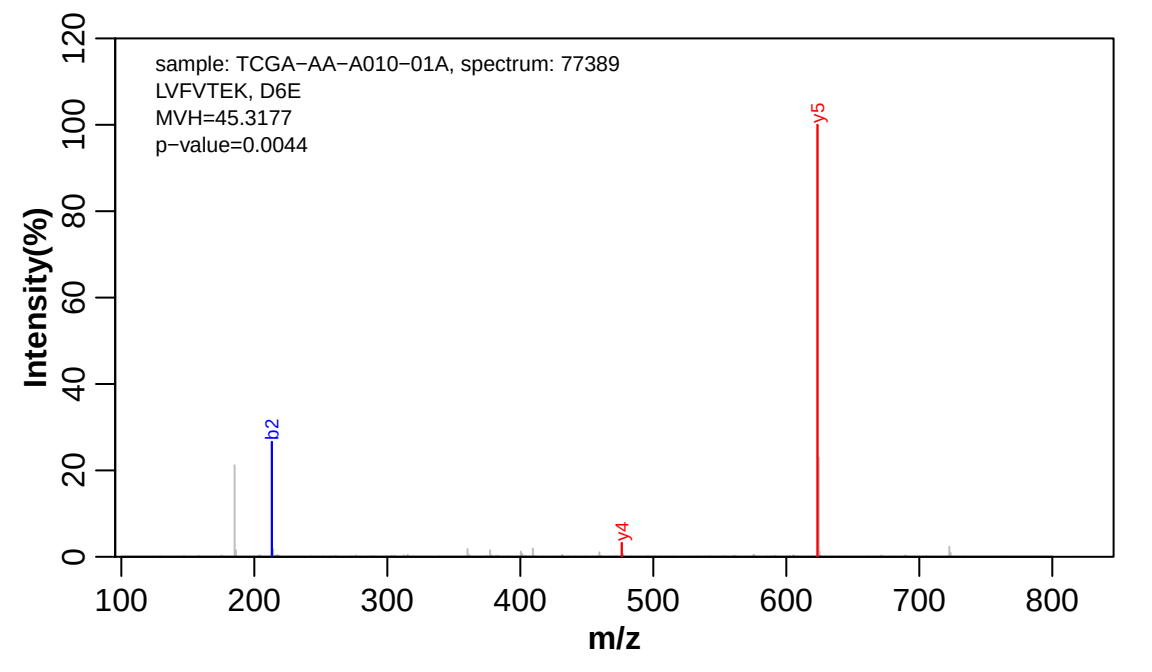

sample: TCGA−AA−A010−01A, spectrum: 30153
LLNLLADLVER, R4L
MVH=53.0317
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b2
b3
b4
b4−NH3
b5
b5−NH3
b6
b6−NH3
b7
b8
b8−NH3
b9
b9−NH3
b10

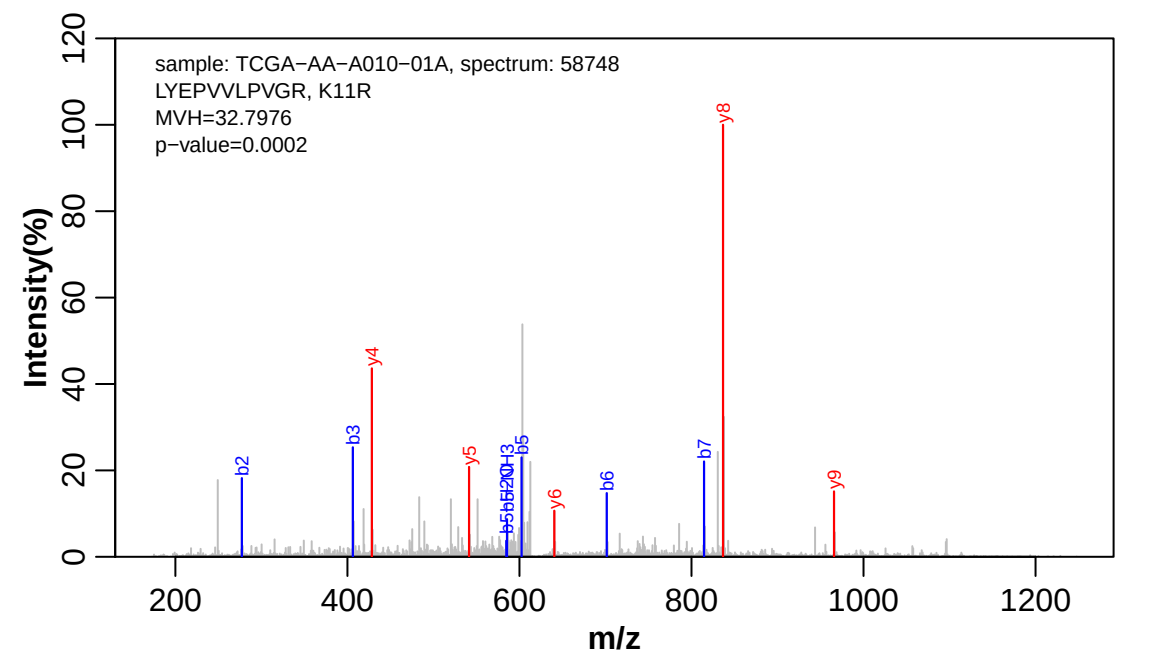

sample: TCGA−AA−A010−01A, spectrum: 26316
LLTQDEGPALVPGSR, G14S
MVH=43.3002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y4−NH3
b3
y5
b5
y6
b6−H2O
b6
b7−NH3
b7
y8
b8−y9
b9−NH3
b9
y10
b10
y11
b11
b11−NH3H2O

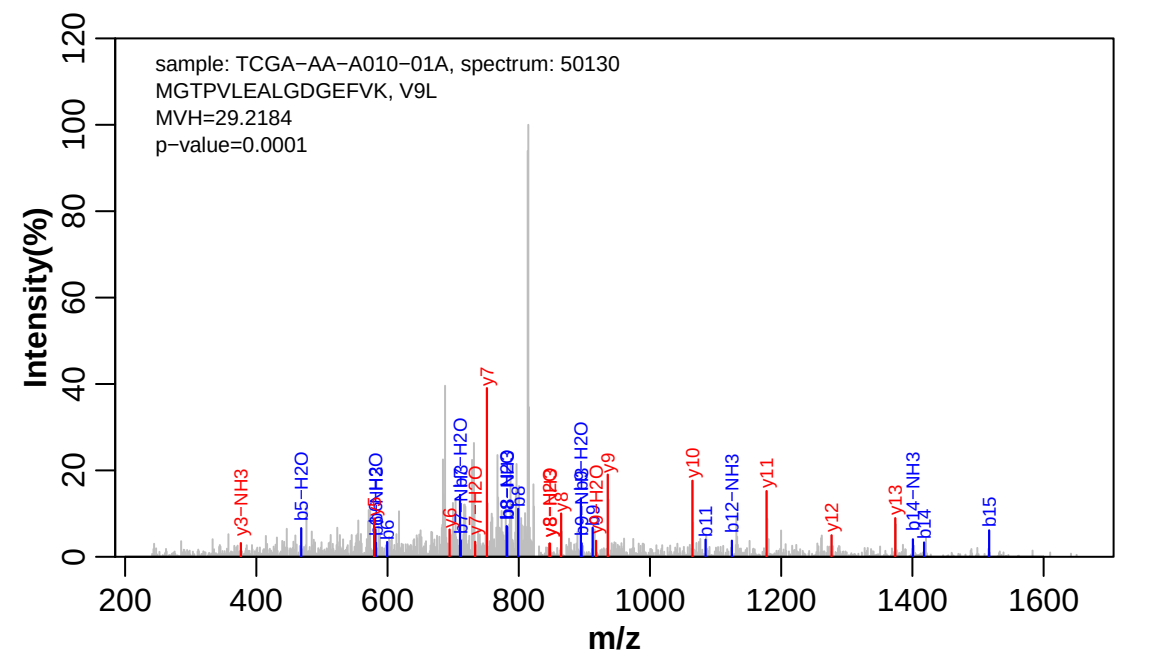

sample: TCGA−AA−A010−01A, spectrum: 117565
LQEQHLSSPQGVQLDR, I16R
MVH=65.7987
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
b3
y3
y8++
y4
y6
y7−H2O
b8
y9

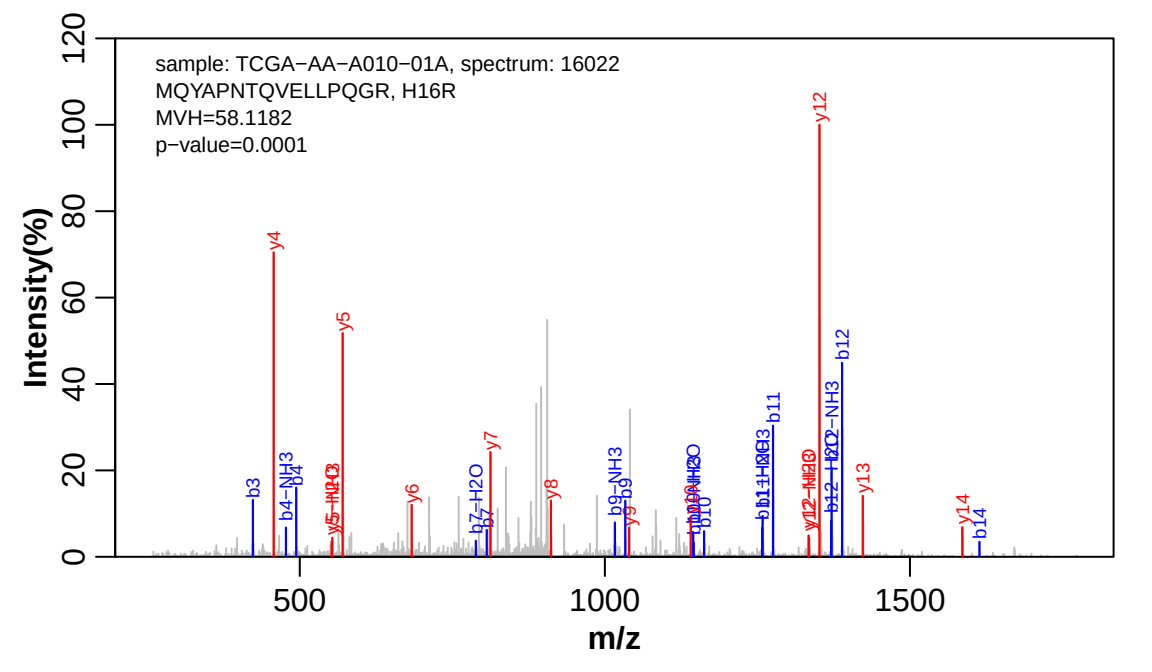

sample: TCGA−AA−A010−01A, spectrum: 150733
LTAEFEEAQTSACLLQEELEK, R14L
MVH=48.4262
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b6++−H2O
y3
y7++−H2O
y9++−H2O
y4
y5
y6
b16++−NH3
b15++
b18++
b13
b15
y10
b12−H2O

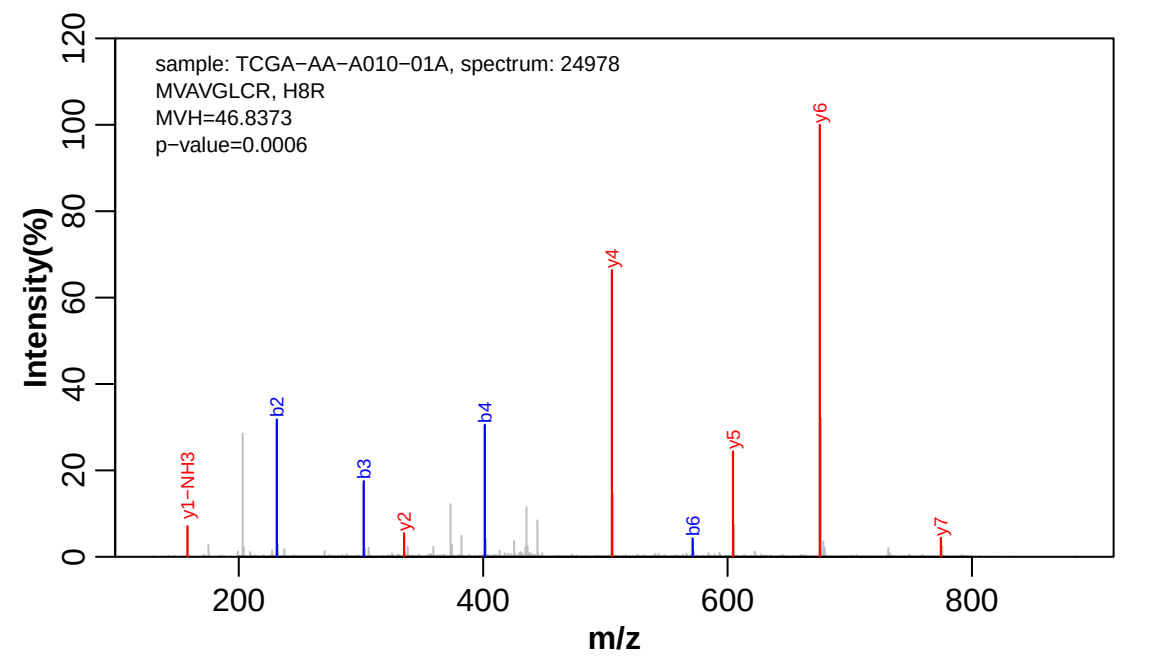

sample: TCGA−AA−A010−01A, spectrum: 75802
LTGHGAEDSLADQAANK, R4H
MVH=48.1438
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
b10++−H2O
b11++−H2O
b10++
b15++
b16++
b16++−H2O
b9
b10
y8
b9−H2O
b5++−NH3
y2−NH3
y2
y6b7−H2O
y7++
y8++
y4
b9++
b12++−H2O
y12++
y12++−NH3
b14++−H2O
b14++
y7−NH3
y7
b8

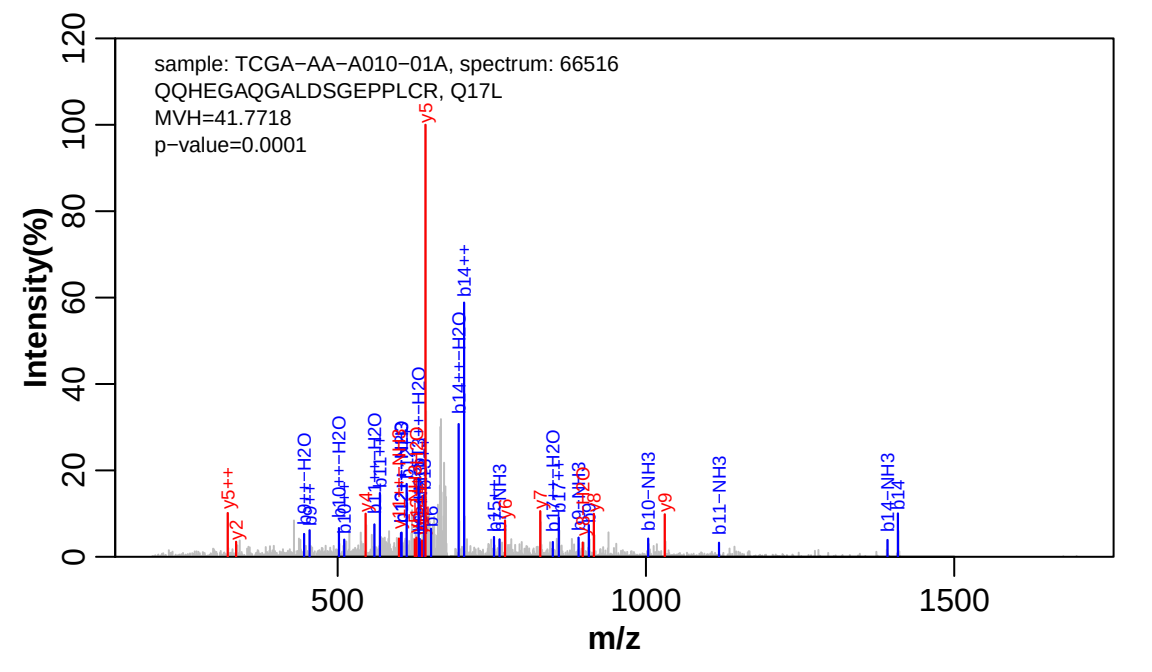

sample: TCGA−AA−A010−01A, spectrum: 77389
LVFVTEK, D6E
MVH=45.3177
p−value=0.0044
b2
y4
y5
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z

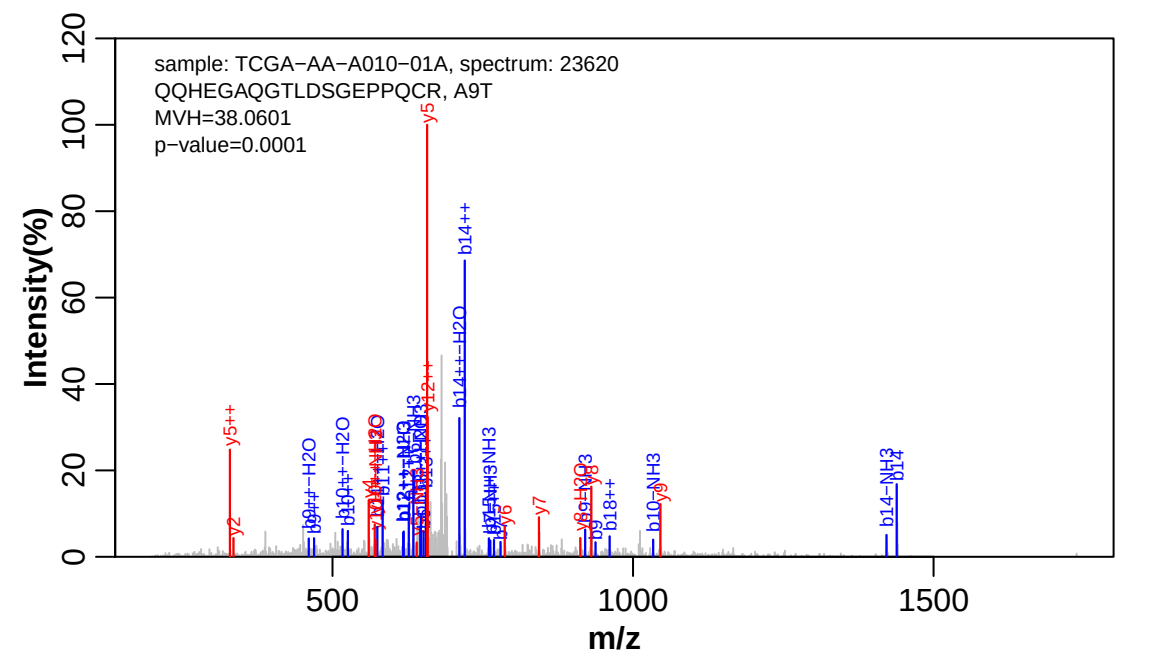

sample: TCGA−AA−A010−01A, spectrum: 58748
LYEPVVLPVGR, K11R
MVH=32.7976
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y5
b5
y6
b6
b7
y8
y9

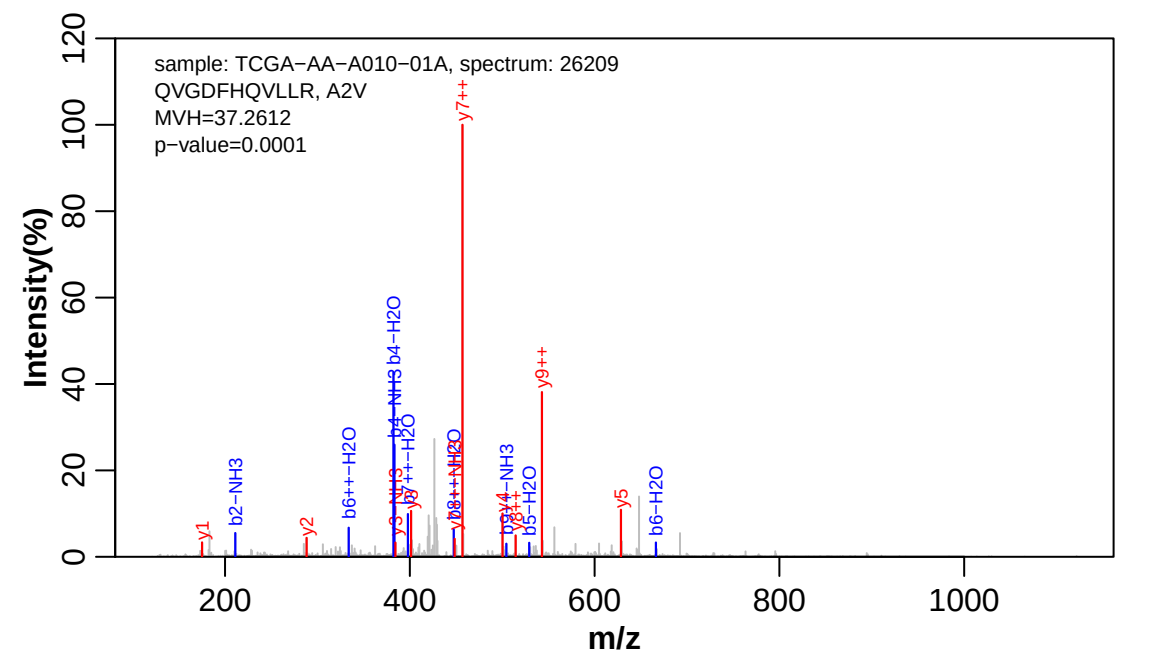

sample: TCGA−AA−A010−01A, spectrum: 50130
MGTPVLEALGDGEFVK, V9L
MVH=29.2184
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3−NH3
b5−H2O
y7
y7−H2O
y8
y9
y10
b11
b12−NH3
y11
y12
y13
b14−NH3
b14
b15

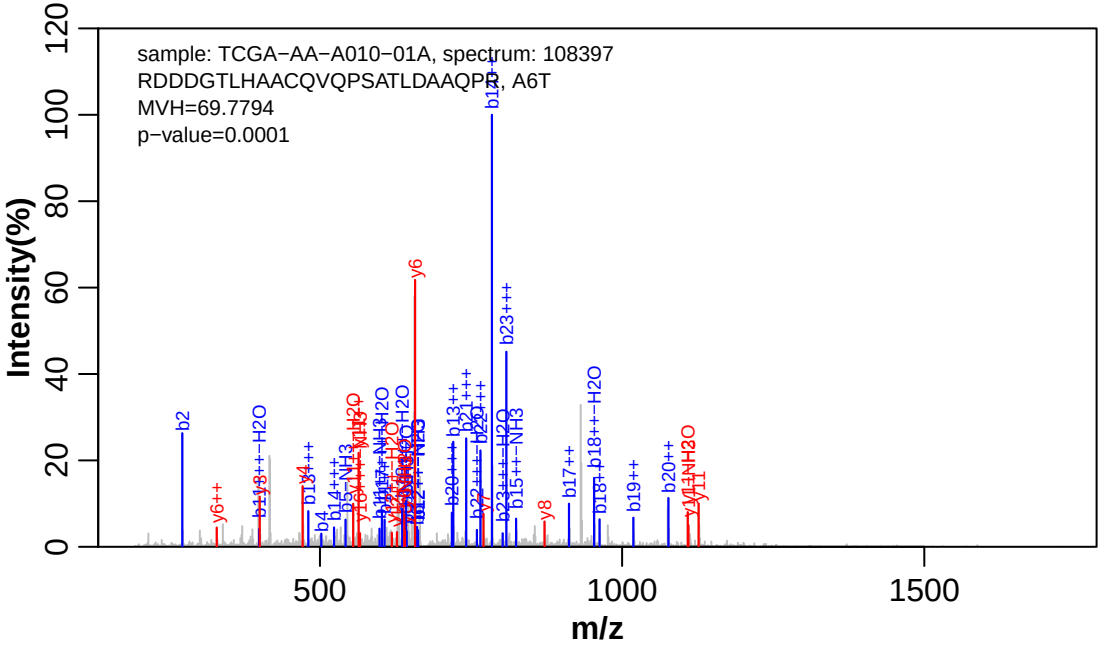

sample: TCGA−AA−A010−01A, spectrum: 16022
MQYAPNTQVELLPQGR, H16R
MVH=58.1182
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y4
y5
y7
y6
y8
y13
y14
b12
b11
b14
b3
b4
b4−NH3
b7−H2O
b9−NH3
y12−NH3

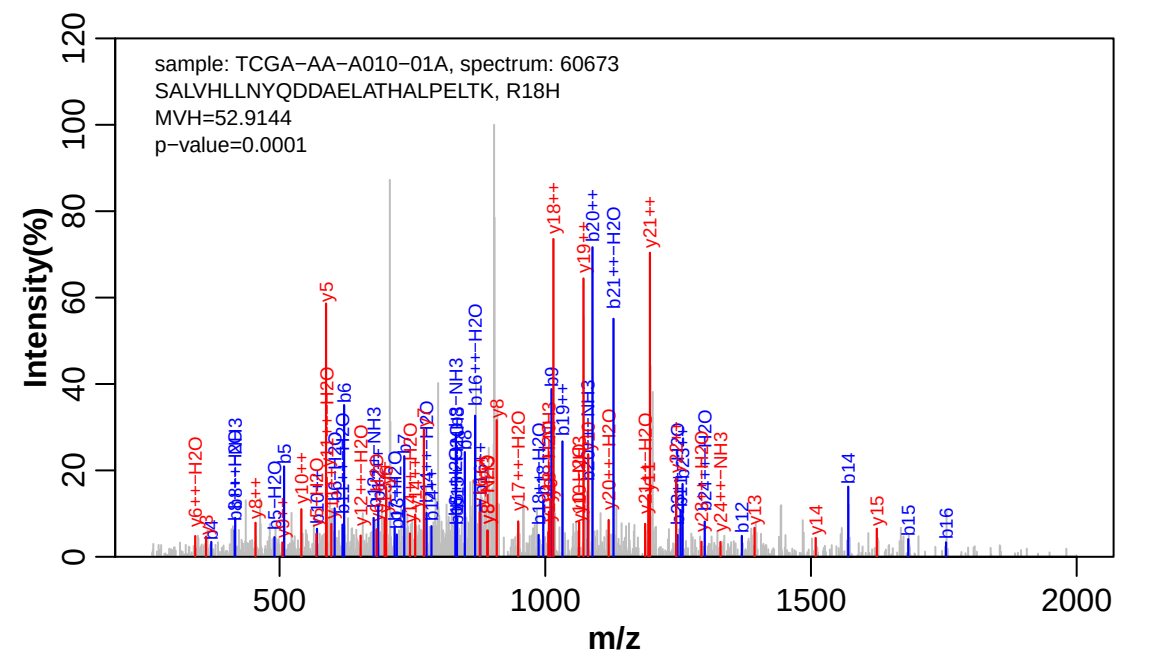

sample: TCGA−AA−A010−01A, spectrum: 24978
MVAVGLCR, H8R
MVH=46.8373
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

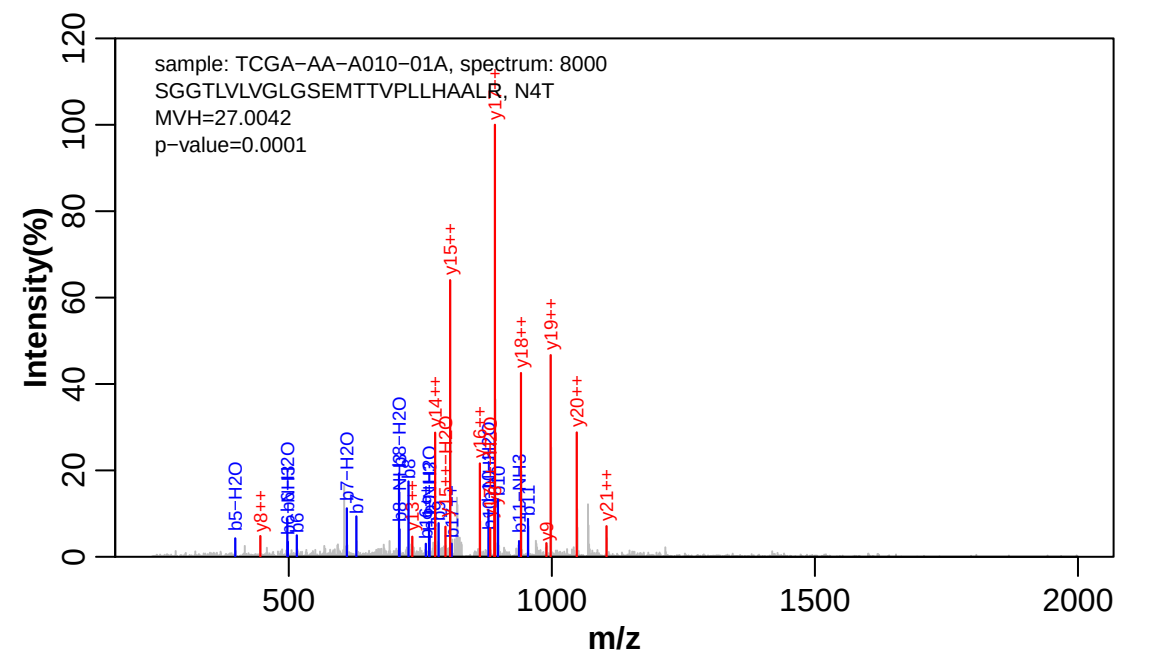

sample: TCGA−AA−A010−01A, spectrum: 66516
QQHEGAQGALDSGEPPLCR, Q17L
MVH=41.7718
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y5++
y2
b14++
b14++−H2O
b14−NH3
b14
y9
b10−NH3
b11−NH3
y7
y6
y4

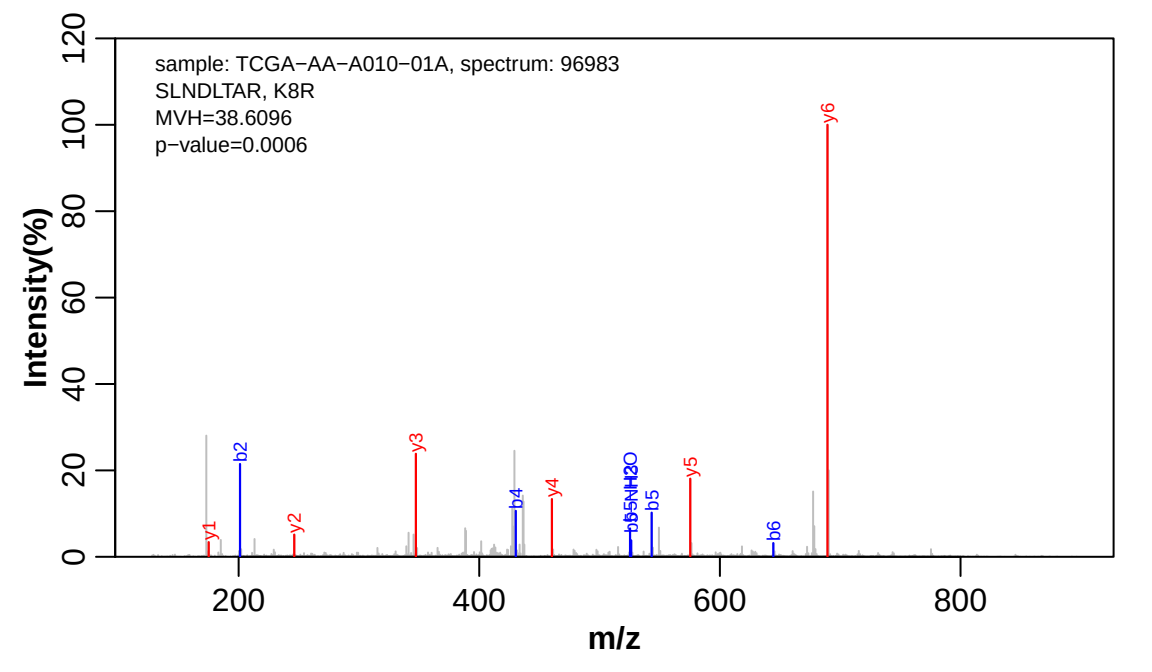

sample: TCGA−AA−A010−01A, spectrum: 23620
QQHEGAQGTLDSGEPPQCR, A9T
MVH=38.0601
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y5++
y2
b14++
b14++−H2O
b14−NH3
b14
y7
y9
b18++
b10−NH3
y12++

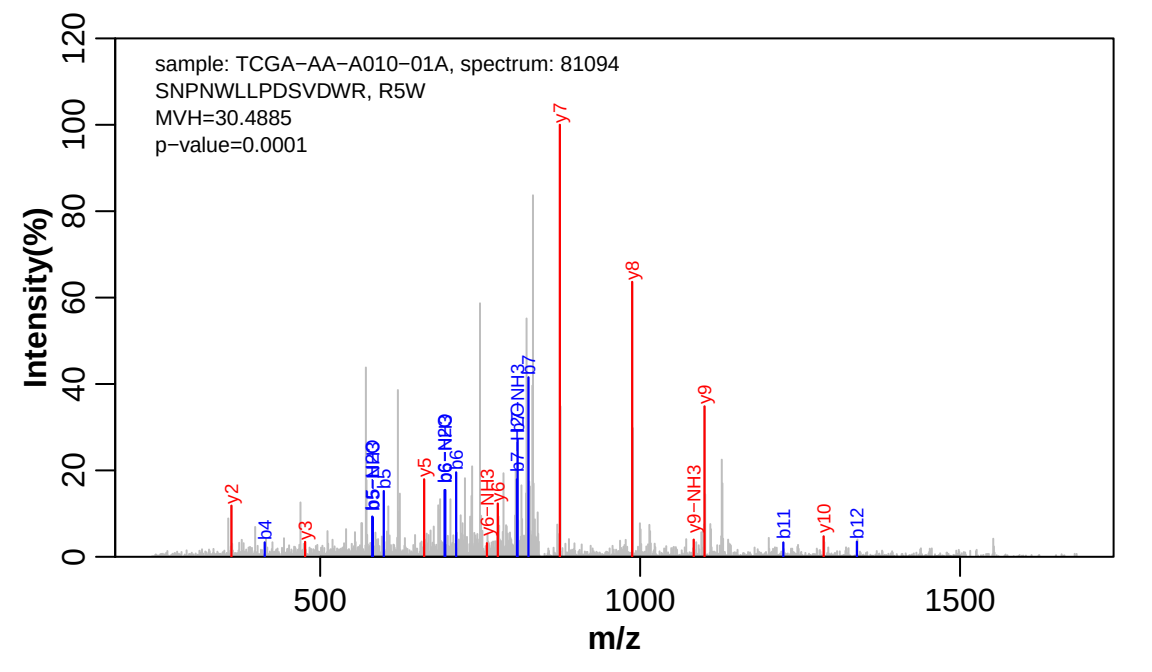

sample: TCGA−AA−A010−01A, spectrum: 26209
QVGDFHQVLLR, A2V
MVH=37.2612
p−value=0.0001
Intensity(%)
m/z
y7++
y9++
b4−H2O
b4−NH3
y4++−H2O
y4++−NH3
y8++−H2O
y8++−NH3
b6++−H2O
b2−NH3
y1
y2
y5
b6−H2O
b5−H2O
b8++
y8++
0
20
40
60
80
100
120
200
400
600
800
1000

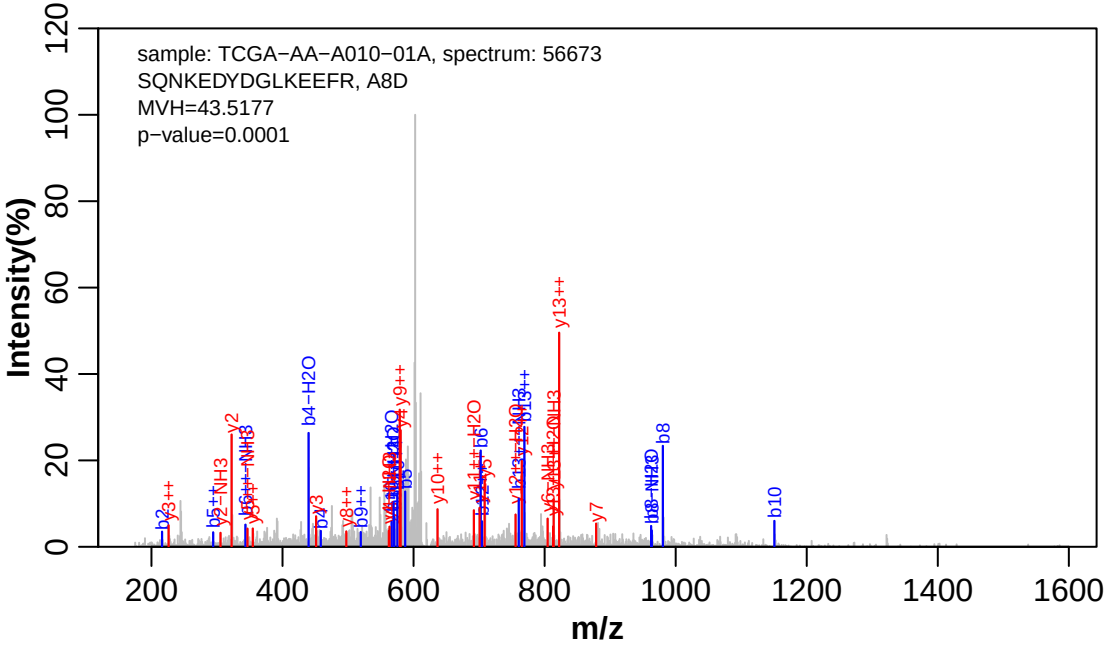

sample: TCGA−AA−A010−01A, spectrum: 108397
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=69.7794
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y6++
b11++−H2O
b13+++
b14+−NH3
y6
b12++
b23+++
b13++
b21+++
b15++−NH3
y8
b17++
b18++−H2O
b19++
b20++
y11

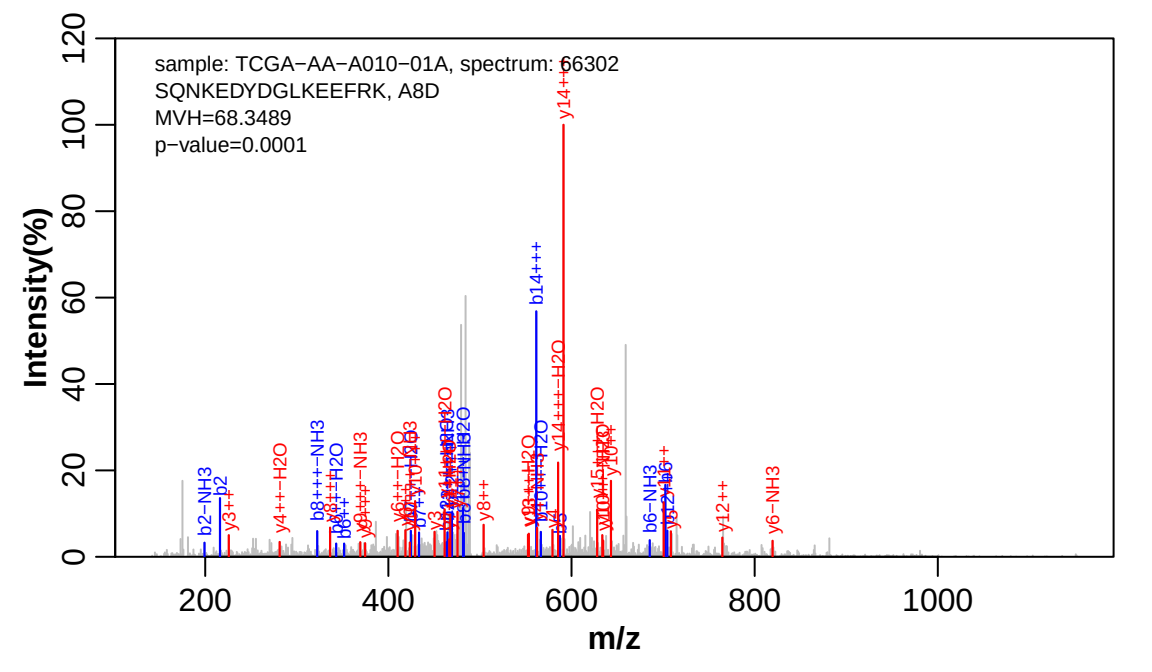

sample: TCGA−AA−A010−01A, spectrum: 60673
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=52.9144
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
y18++
b20++
y19++
b21++−H2O
y21++
y6++−H2O
b4
y8++
b5
b5−H2O
y10++
y12++−H2O
b6
b16++−H2O
y8
y17++−H2O
y20++−H2O
y21+−H2O
b14
y15
b15
b16
y24++−NH3
b12
y13
y14

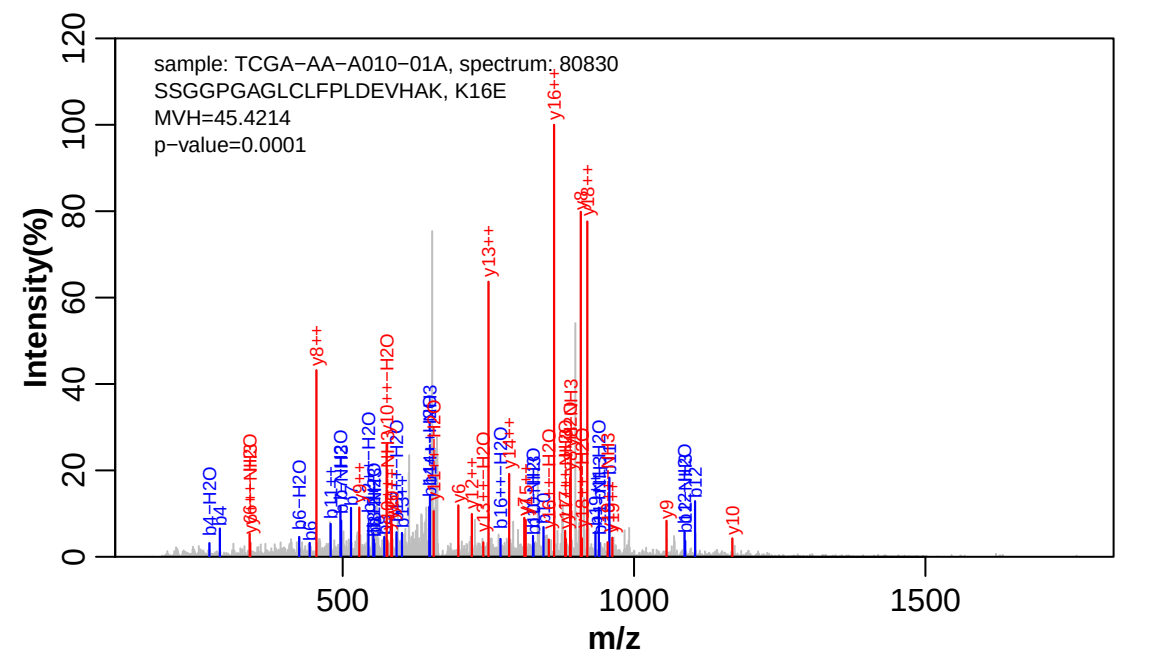

sample: TCGA−AA−A010−01A, spectrum: 8000
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=27.0042
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y18++
y19++
y20++
y21++
y14++
b5−H2O
y8++
b6
b7
b7−H2O
b8
b8−NH3
b8−H2O
y13++
y12++
b9
b9−H2O
b10
b10−H2O
b11
b11−NH3
y9
y16++

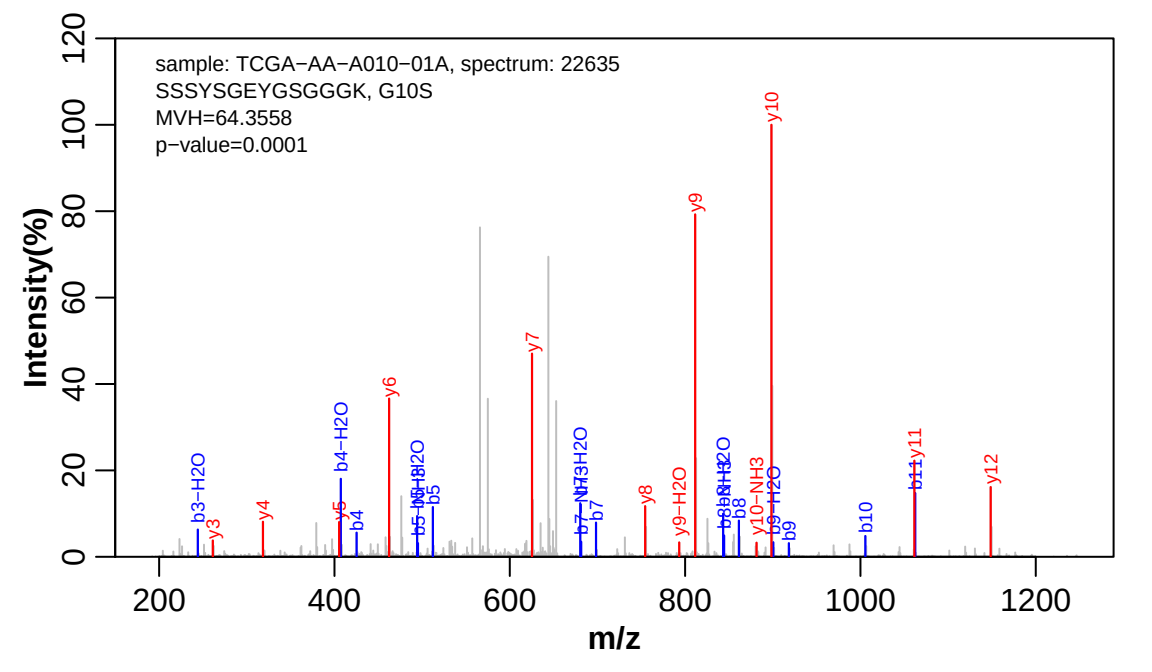

sample: TCGA−AA−A010−01A, spectrum: 96983
SLNDLTAR, K8R
MVH=38.6096
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
y3
b4
y4
b5−NH3
b5−H2O
b5
y5
b6
y6

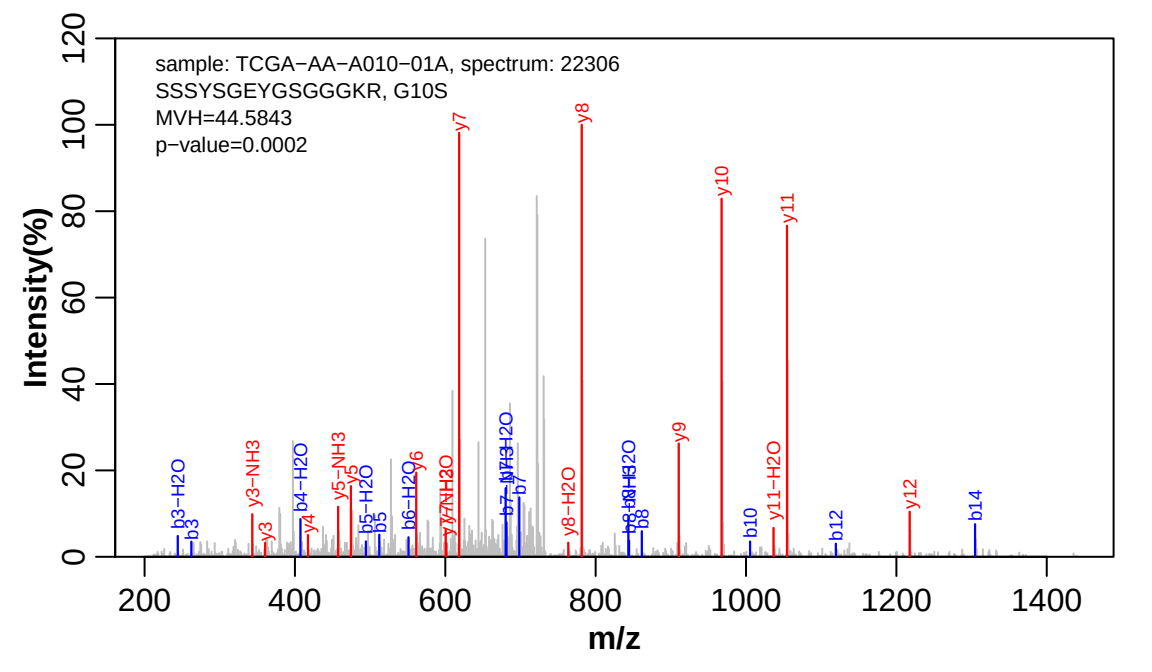

sample: TCGA−AA−A010−01A, spectrum: 81094
SNPNWLLPDSVDWR, R5W
MVH=30.4885
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b4
y3
b5
y5
b6
y6
y6−NH3
b7
y7
y8
y9
y9−NH3
b11
y10
b12

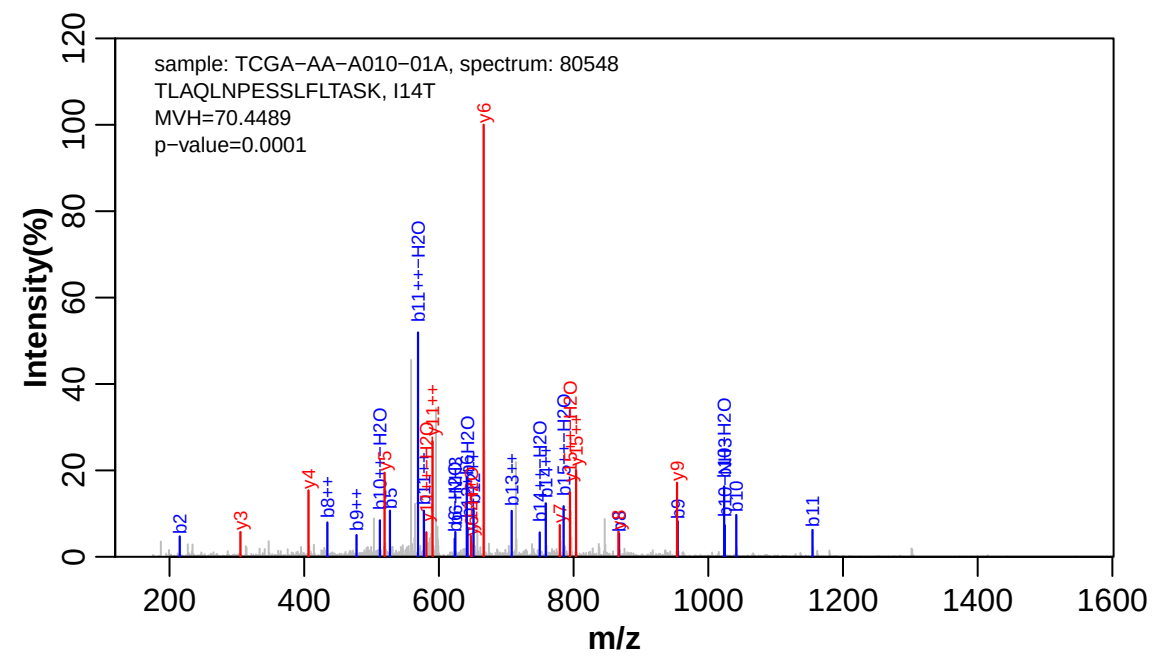

sample: TCGA−AA−A010−01A, spectrum: 56673
SQNKEDYDGLKEEFR, A8D
MVH=43.5177
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3++
b5++
y2−NH3
y2
b4−H2O
b4
y8++
b9++
y4−H2O
y4
y9++
b5
y10++
y11++−H2O
b6
y11++
y13++
y7
b8
b8−NH3
b8−H2O
b10

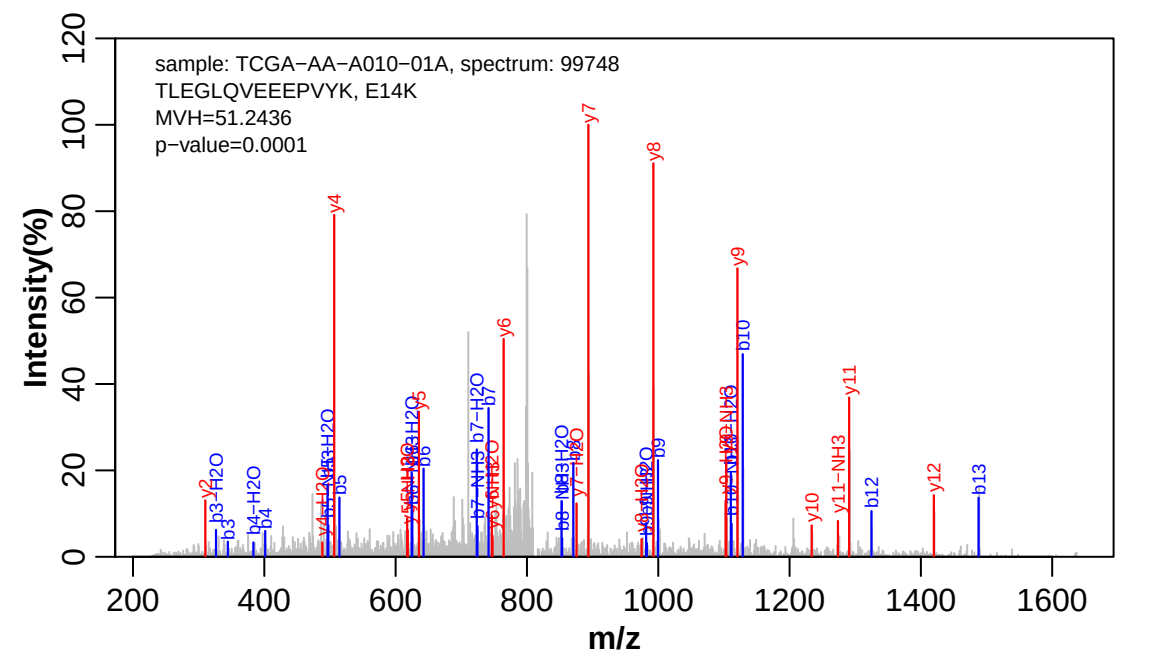

sample: TCGA−AA−A010−01A, spectrum: 66302
SQNKEDYDGLKEEFRK, A8D
MVH=68.3489
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y14++
b14+++
y14+++−H2O
b2−NH3
b2
y3++
y4+++−H2O
b8+++−NH3
y8+++−NH3
y8++
b8++
y8+++
y6+++−H2O
y8++
b6−NH3
y12++
y6−NH3

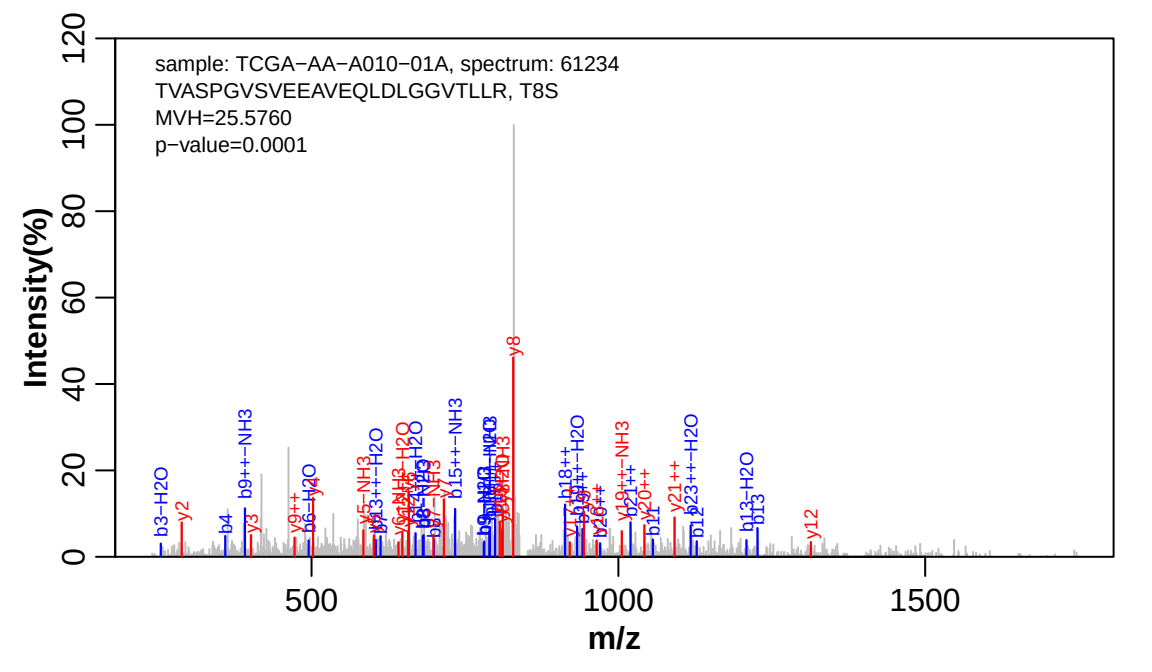

sample: TCGA−AA−A010−01A, spectrum: 80830
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=45.4214
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y8++
y13++
y8++
b4−H2O
b4
b6−H2O
b6
y10++−H2O
y6
y12++
b16++−H2O
y14++
y9
b12
y10

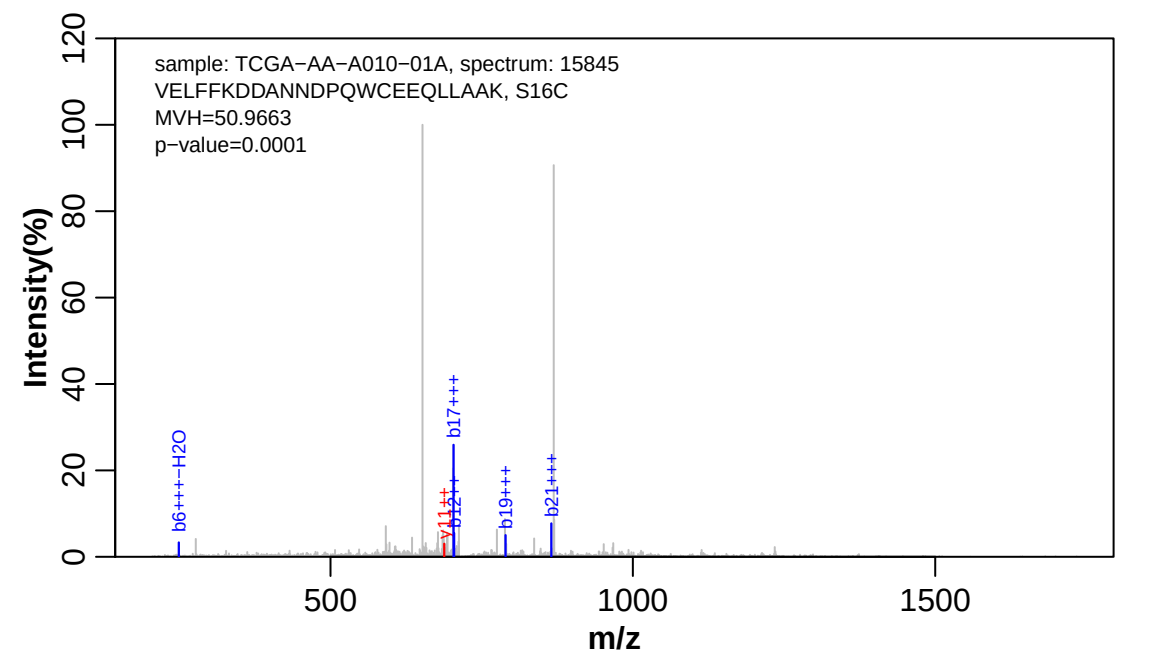

sample: TCGA−AA−A010−01A, spectrum: 22635
SSSYSGEYGSGGGK, G10S
MVH=64.3558
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y3
y4
b4−H2O
y5
b4
y6
b5
y7
y8
y9−H2O
y9
b8
y10−NH3
y10
b9
b10
y11
y12

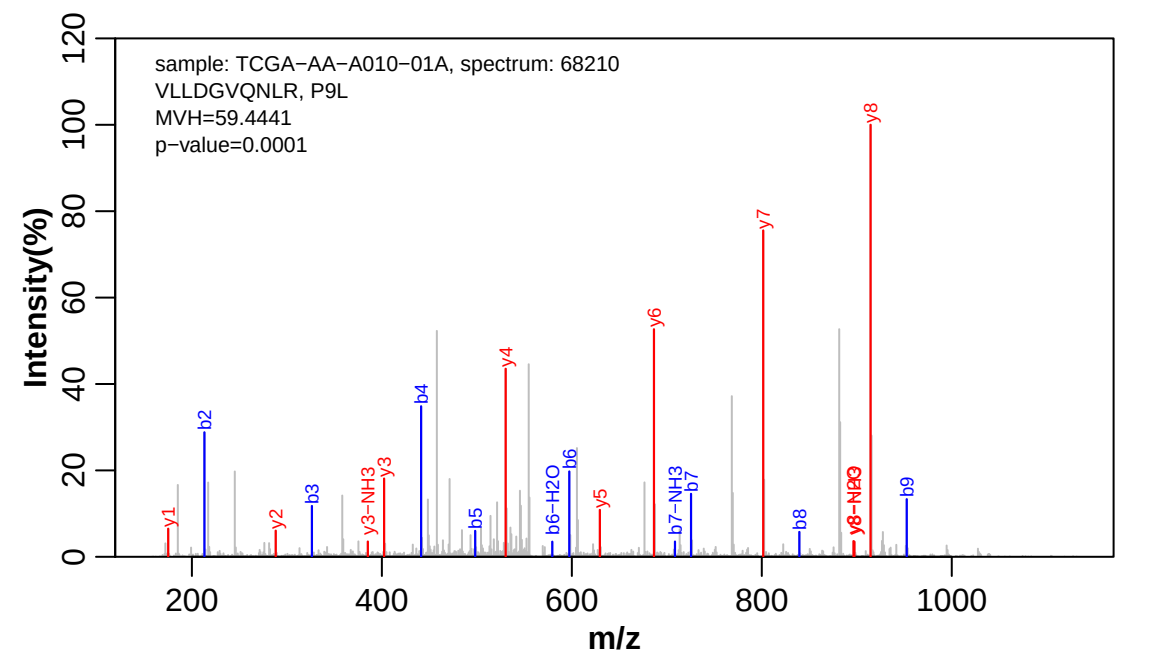

sample: TCGA−AA−A010−01A, spectrum: 22306
SSSYSGEYGSGGGKR, G10S
MVH=44.5843
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y8
y10
y11
y9
y12
b14
b12
b10
y11−H2O
y8−H2O
y3−NH3
y5−NH3
b3−H2O
b4−H2O
b5−H2O
b6−H2O
b3
y3
b4
y4
y5
b5
b6
y6
y7
b7
b8

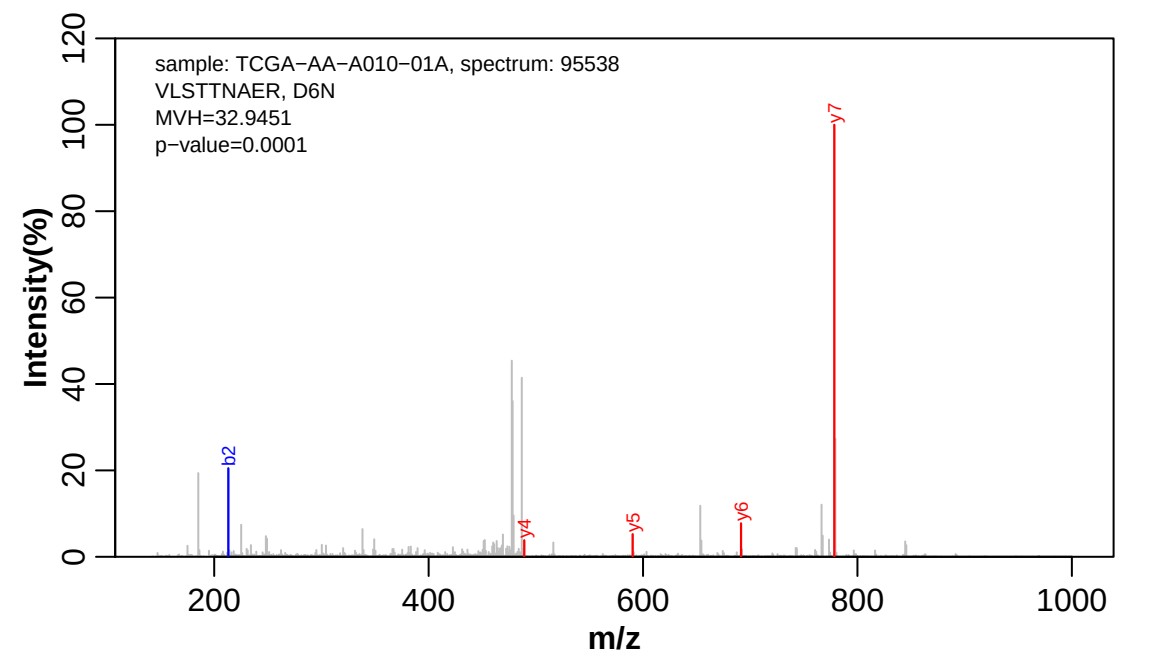

sample: TCGA−AA−A010−01A, spectrum: 80548
TLAQLNPESSLFLTASK, I14T
MVH=70.4489
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
b11++−H2O
y4
b8++
b2
y3
b9++
b10++−H2O
y5
b5
y11++
b13++
b14++−H2O
y7
y8
b9
y9
b10
b11

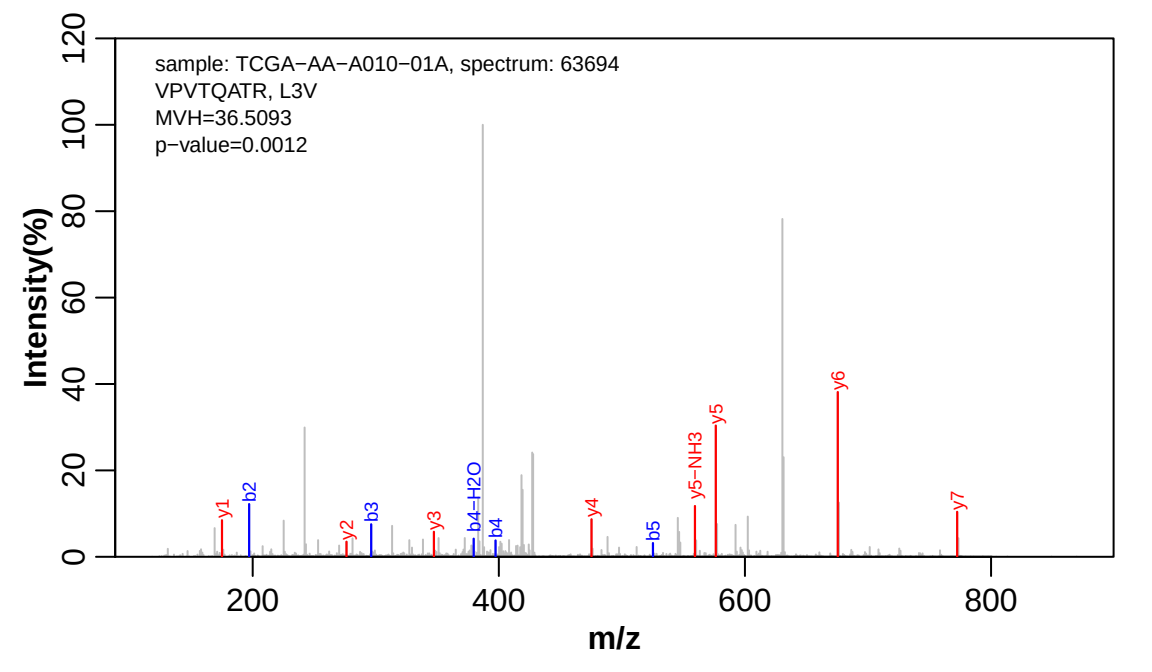

sample: TCGA−AA−A010−01A, spectrum: 99748
TLEGLQVEEEPVYK, E14K
MVH=51.2436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y4
y9
y6
y5
y10
y11
y12
b13
b12
b10
b9
b7
b5
b4
b3
y2

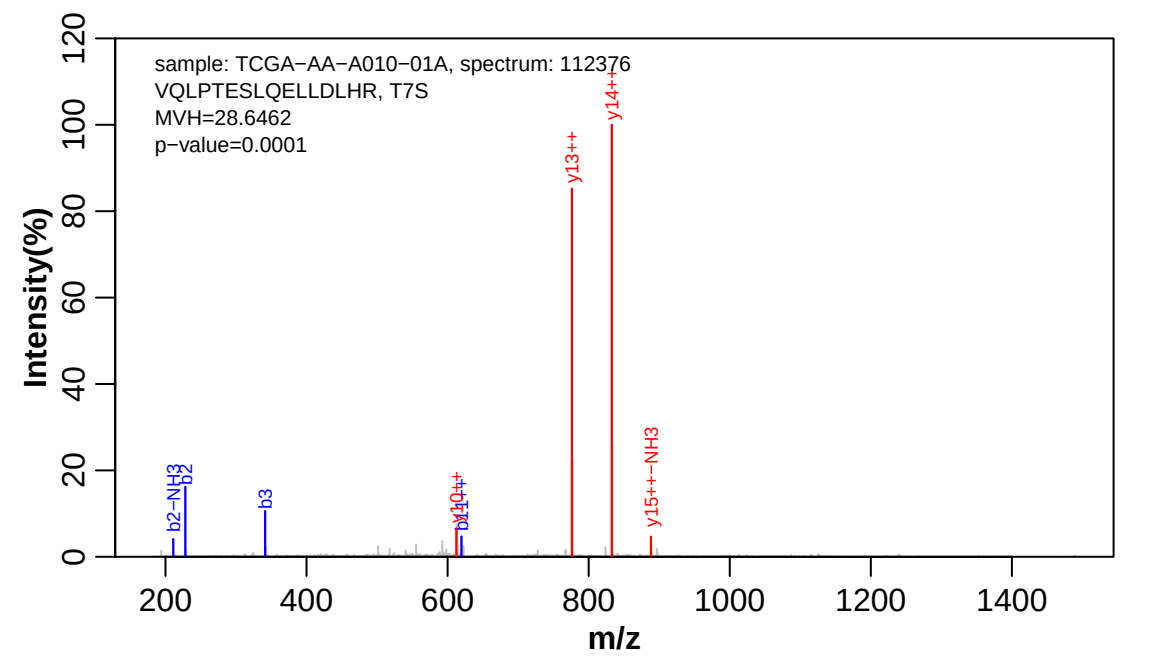

sample: TCGA−AA−A010−01A, spectrum: 61234
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=25.5760
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y2
b4
b9++−NH3
y3
y8++
b6−H2O
y4
y5−NH3
b13++−H2O
y8
b15++−NH3
b18++
y19++−NH3
b20++
y21++
b23++−H2O
b13−H2O
y12

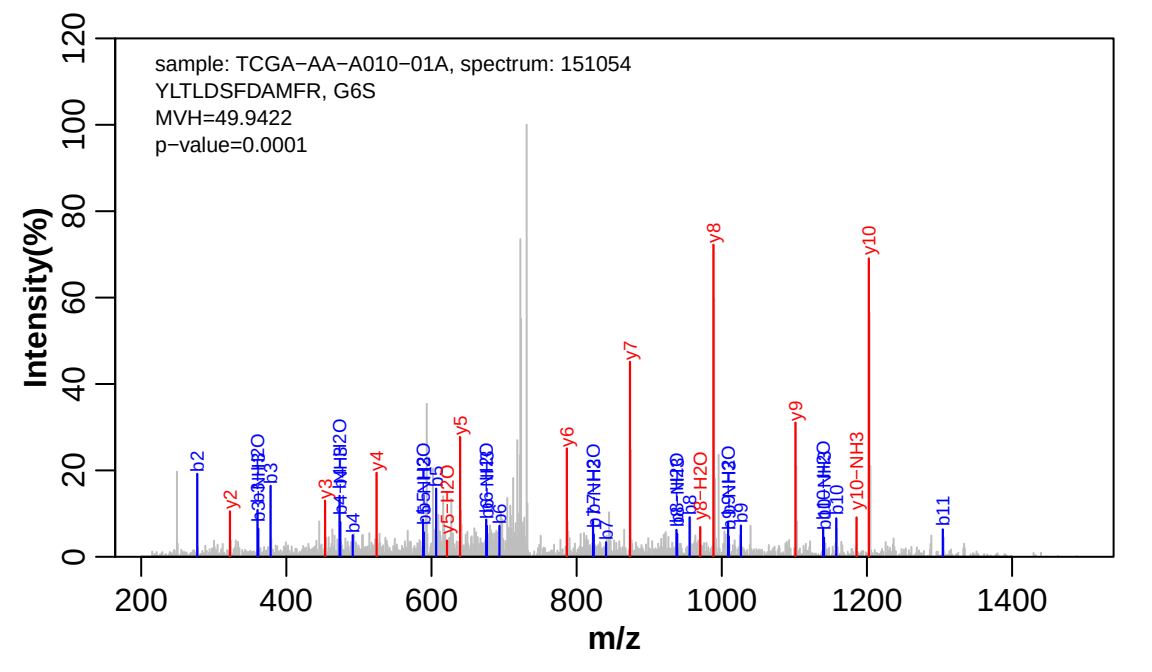

sample: TCGA−AA−A010−01A, spectrum: 15845
VELFFKDDANNDPQWCEEQLLAAK, S16C
MVH=50.9663
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b6+++−H2O
y11++
b12++
b17+++
b19+++
b21+++

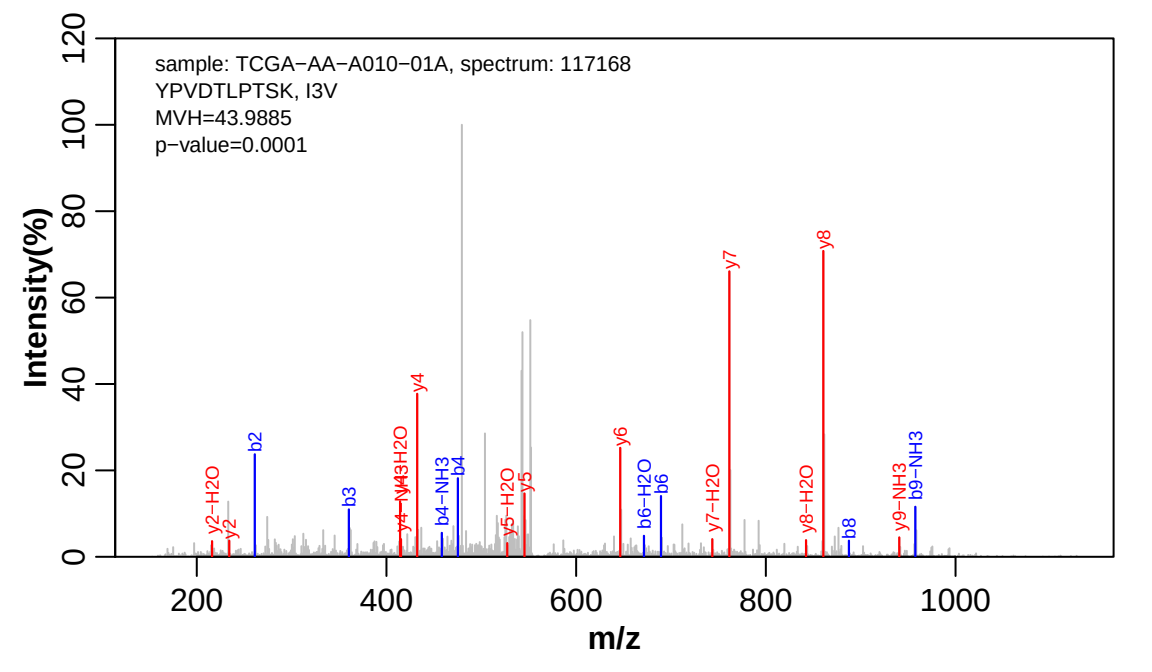

sample: TCGA−AA−A010−01A, spectrum: 68210
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7−NH3
b7
b8
y7
y8−NH3
y8
b9

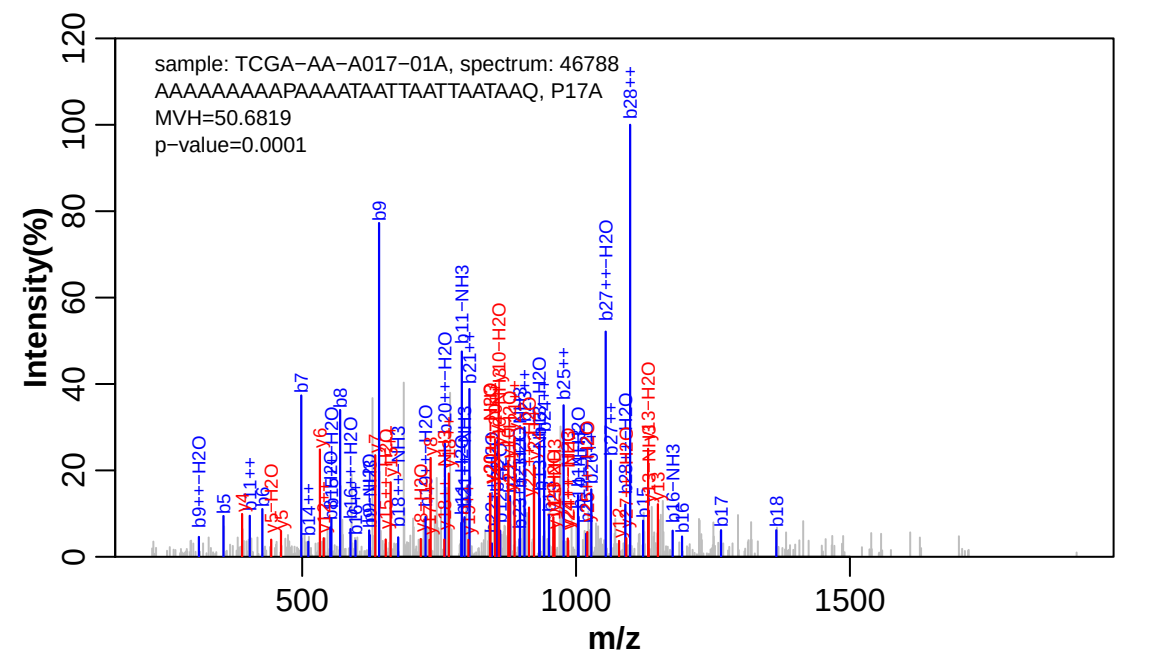

sample: TCGA−AA−A010−01A, spectrum: 95538
VLSTTNAER, D6N
MVH=32.9451
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y4
y5
y6
y7

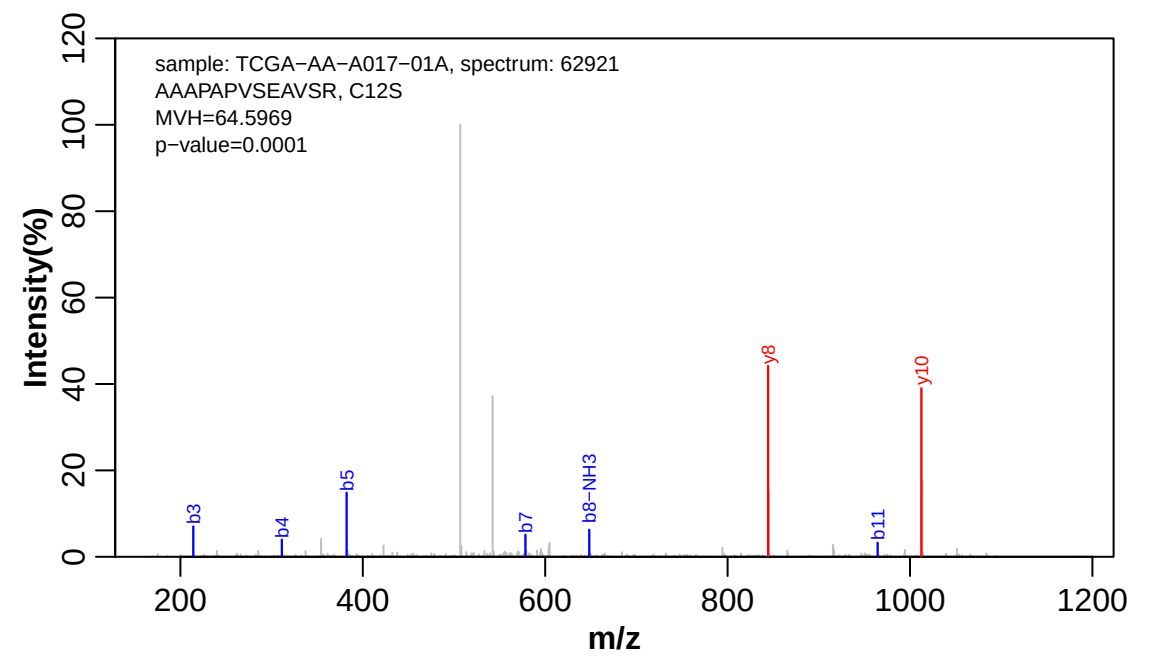

sample: TCGA−AA−A010−01A, spectrum: 63694
VPVTQATR, L3V
MVH=36.5093
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4−H2O
b4
y4
b5
y5−NH3
y5
y6
y7

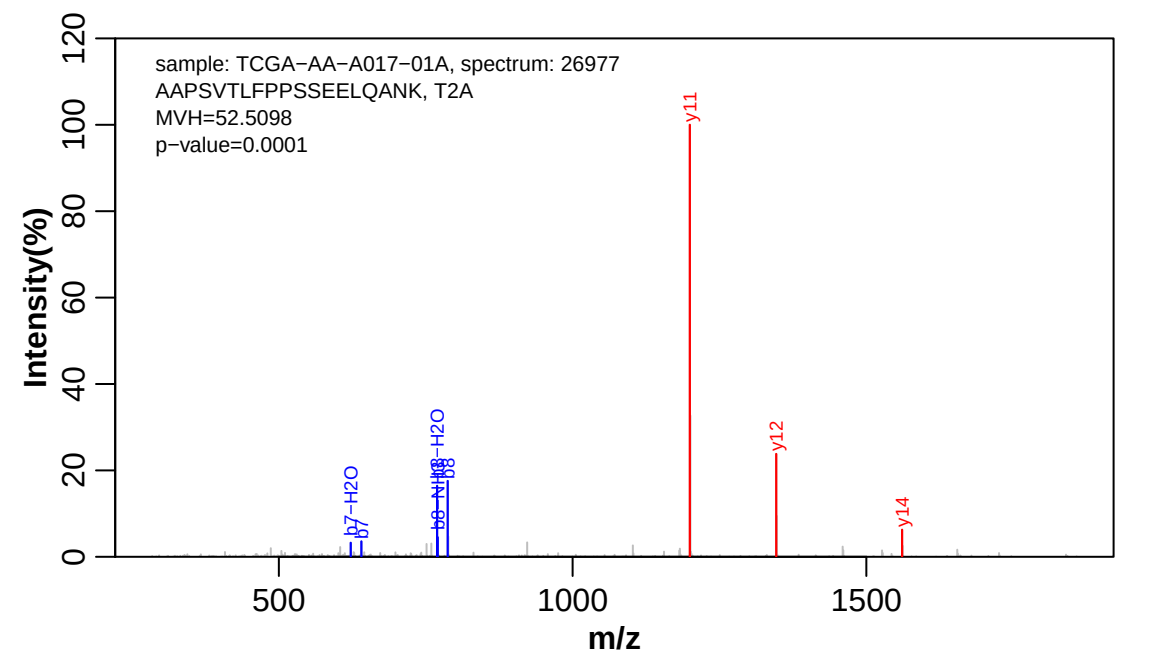

sample: TCGA−AA−A010−01A, spectrum: 112376
VQLPTESLQELLDLHR, T7S
MVH=28.6462
p−value=0.0001
y14++
y13++
y15++−NH3
b2−NH3
b2
b3
b4
b10++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

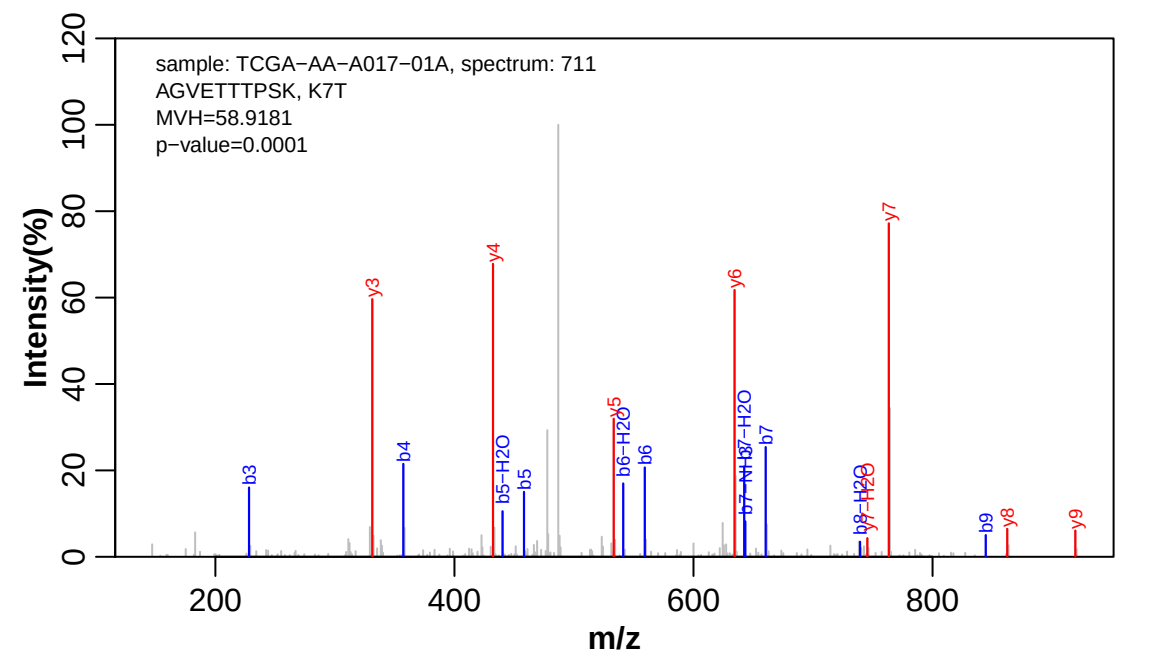

sample: TCGA−AA−A010−01A, spectrum: 151054
YLTLDSFDAMFR, G6S
MVH=49.9422
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
y5
y6
y7
y8
y9
y10
y10−NH3
b11

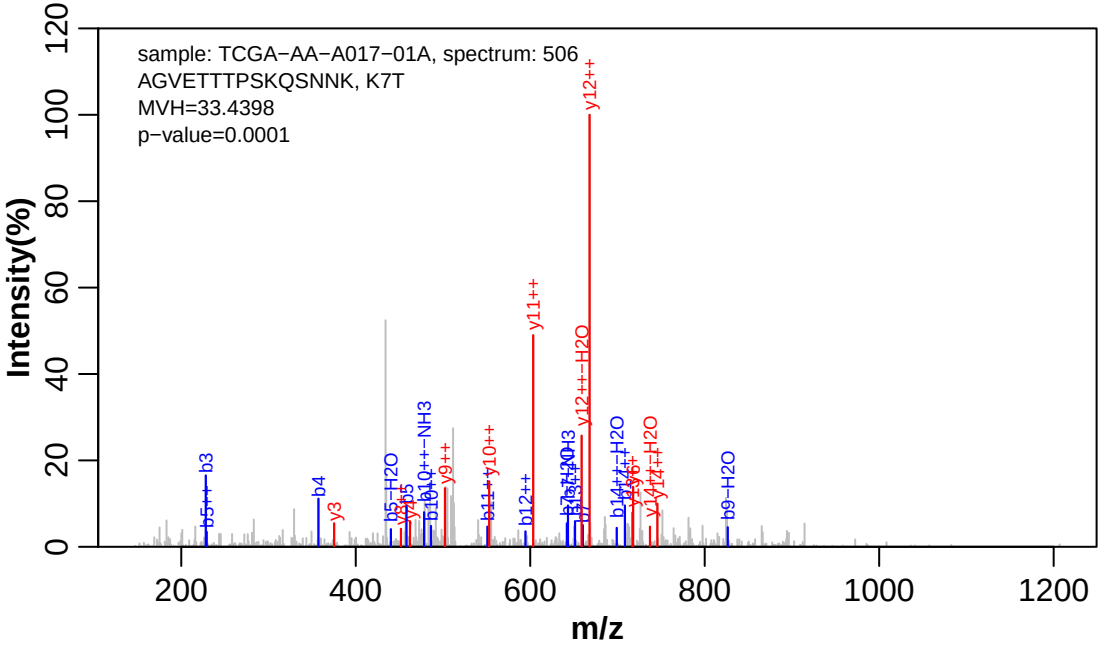

sample: TCGA−AA−A010−01A, spectrum: 117168
YPVDTLPTSK, I3V
MVH=43.9885
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2−H2O
y2
b2
b3
y4−NH3
y4−H2O
y4
b4−NH3
b4
y5−H2O
y5
y6
b6−H2O
b6
y7−H2O
y7
y8−H2O
y8
b8
y9−NH3
b9−NH3

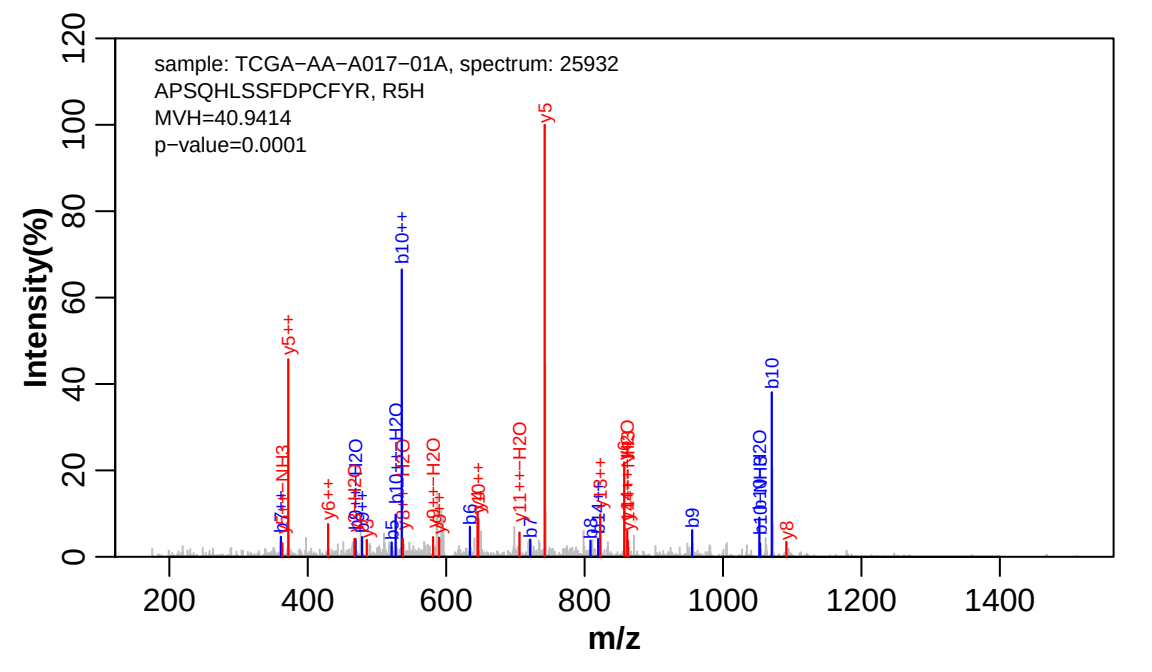

sample: TCGA−AA−A017−01A, spectrum: 46788
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=50.6819
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b9
b27++−H2O
b18
b17
b16−NH3
b15−NH3−H2O
b11−NH3
b10−H2O
b9++−H2O
b5
b7
b8
b25++
b14++
y5
y5−H2O
y4
y4++
y6
y6−H2O
y8
y8−H2O
y7
y7−H2O
y9
y9−H2O
y10
y10−H2O
y11
y11−H2O
y12
y12−H2O
y13
y13−H2O
y14
y14−H2O
y15
y15−H2O
y16
y16−H2O
y17
y17−H2O
y18
y18−H2O
y19
y19−H2O
y20
y20−H2O
y21
y21−H2O
y22
y22−H2O
y23
y23−H2O
y24
y24−H2O
y25
y25−H2O
y26
y26−H2O
y27
y27−H2O

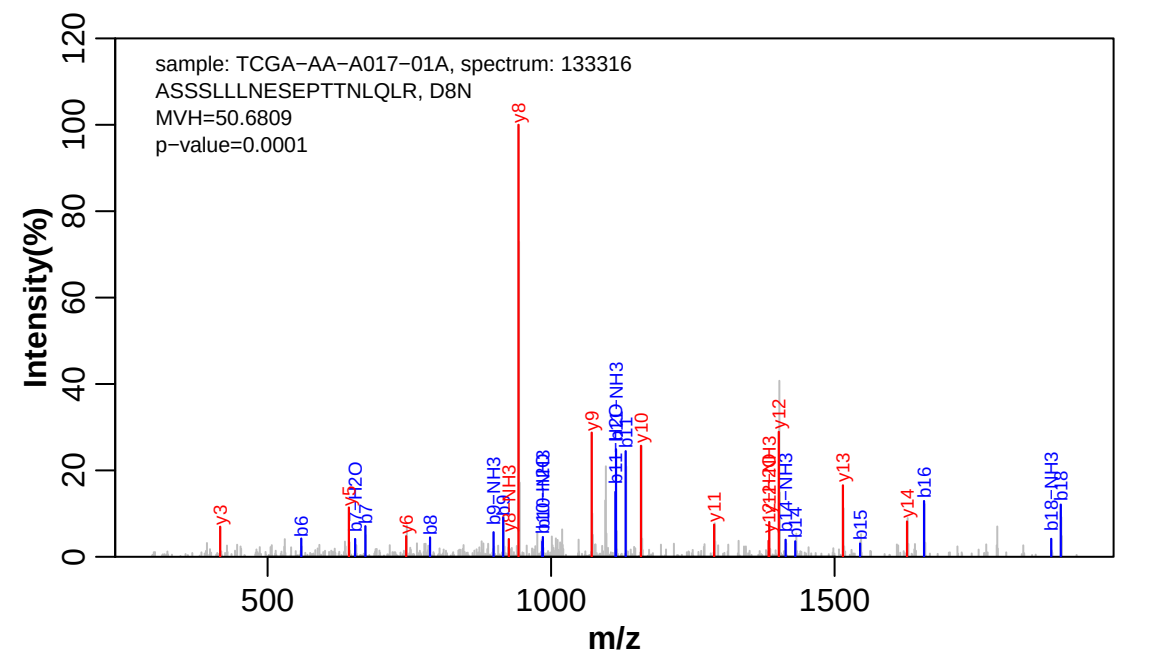

sample: TCGA−AA−A017−01A, spectrum: 62921
AAAPAPVSEAVSR, C12S
MVH=64.5969
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b4
b5
b7
b8−NH3
y8
b11
y10

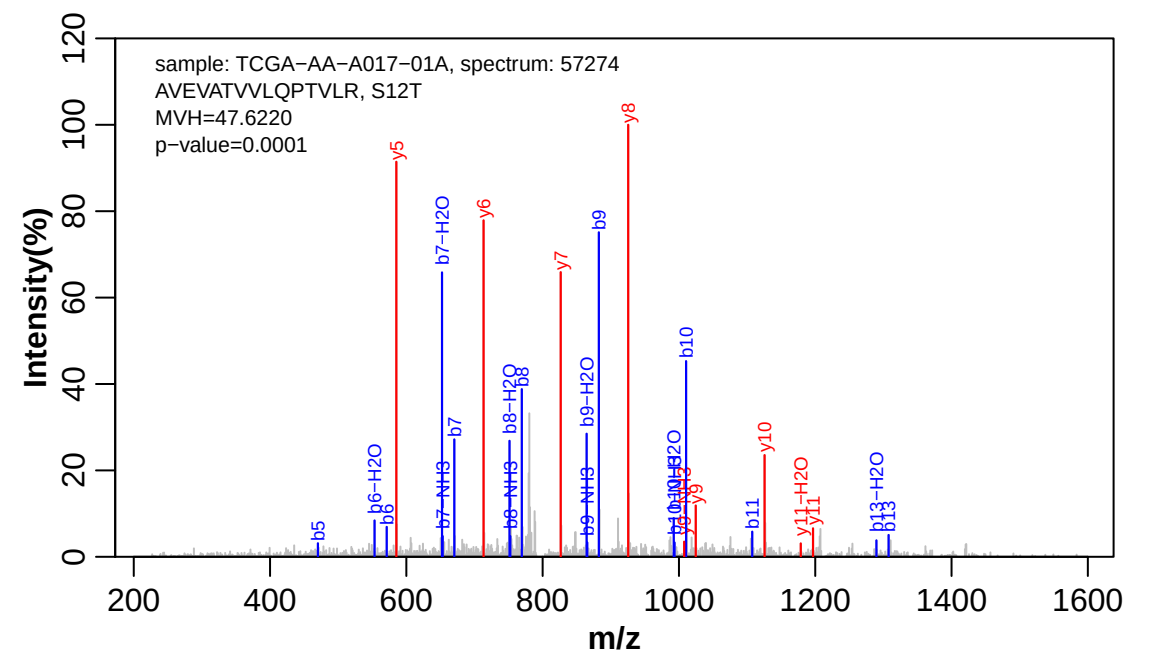

sample: TCGA−AA−A017−01A, spectrum: 26977
AAPSVTLFPPSSEELQANK, T2A
MVH=52.5098
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

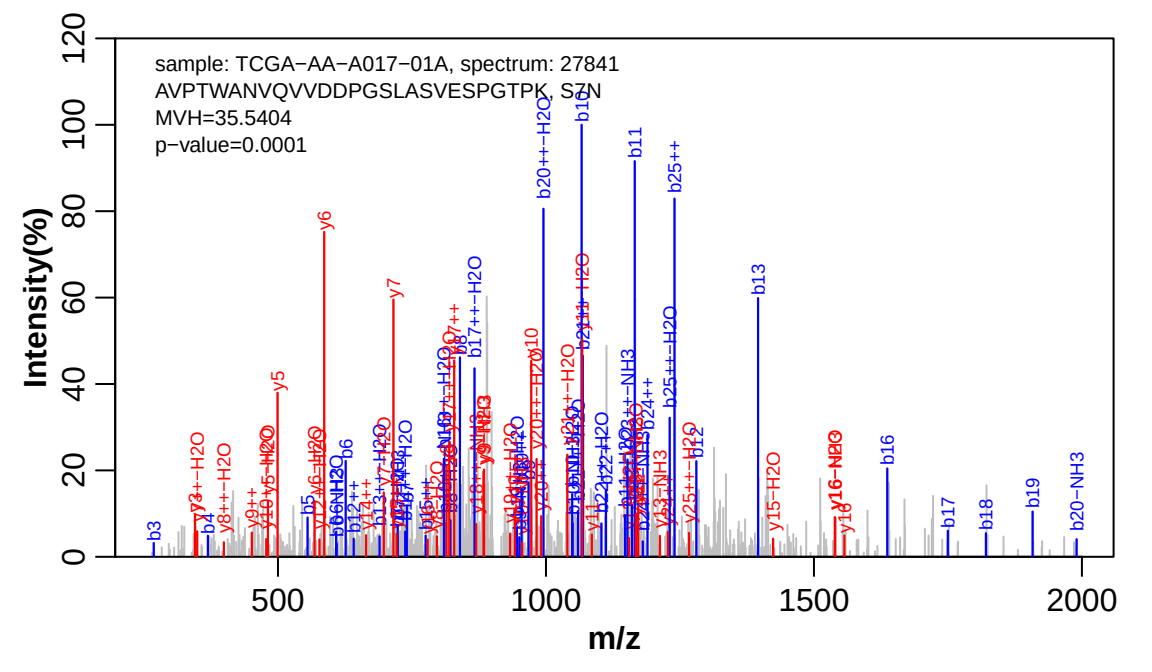

sample: TCGA−AA−A017−01A, spectrum: 711
AGVETTTPSK, K7T
MVH=58.9181
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
b8−H2O
y7
b9
y8
y9

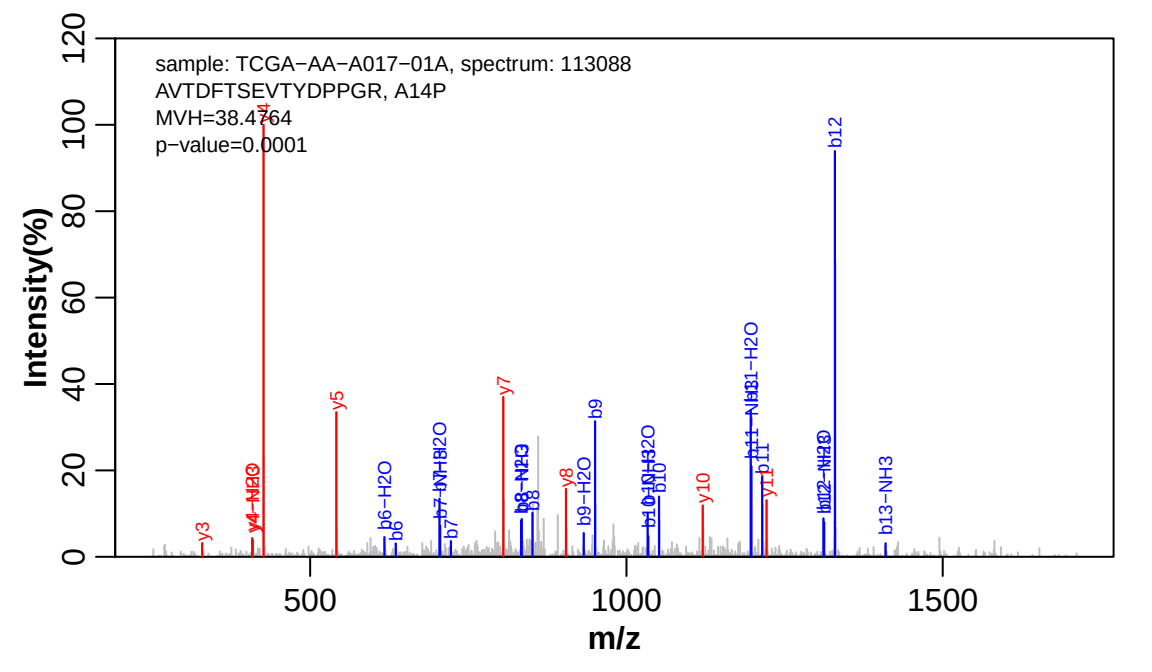

sample: TCGA−AA−A017−01A, spectrum: 506
AGVETTTPSKQSNNK, K7T
MVH=33.4398
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y11++
y12++−H2O
b5++−b3
b4
y3
b5−H2O
b10++−NH3
y9++
b11++y10++
b12++
b14++−H2O
y14++H2O
b9−H2O

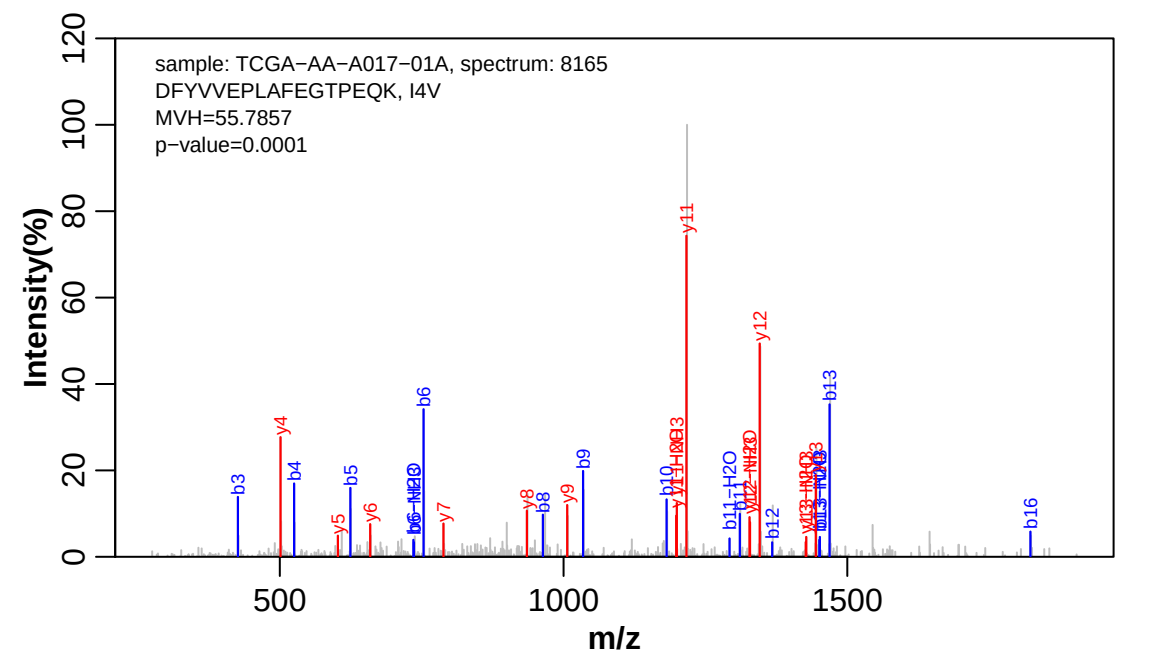

sample: TCGA−AA−A017−01A, spectrum: 25932
APSQHLSSFDPCFYR, R5H
MVH=40.9414
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y5++
b10++
b10
y8
y6++
b9
b7
b6
y7++−NH3
y7++−H2O
y8++−H2O
y9++−H2O
y10++−H2O
y11++−H2O
b5
b8++
b10++−H2O
b10−NH3
y6++−NH3
y6++−H2O
y9++−NH3
y9++−H2O
y10++
y11++−NH3

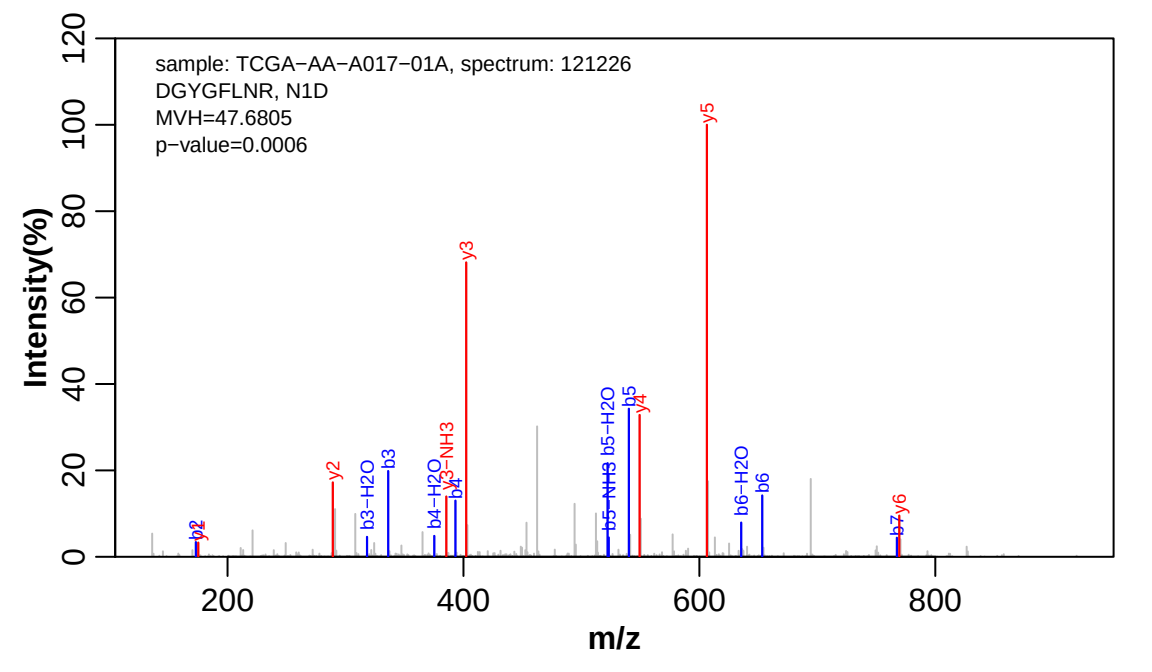

sample: TCGA−AA−A017−01A, spectrum: 133316
ASSSLLLNESEPTTNLQLR, D8N
MVH=50.6809
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y12
y13
y14
y11
y6
y3
b6
b7
b8
b15
b16
b18
b14
NH3
H2O

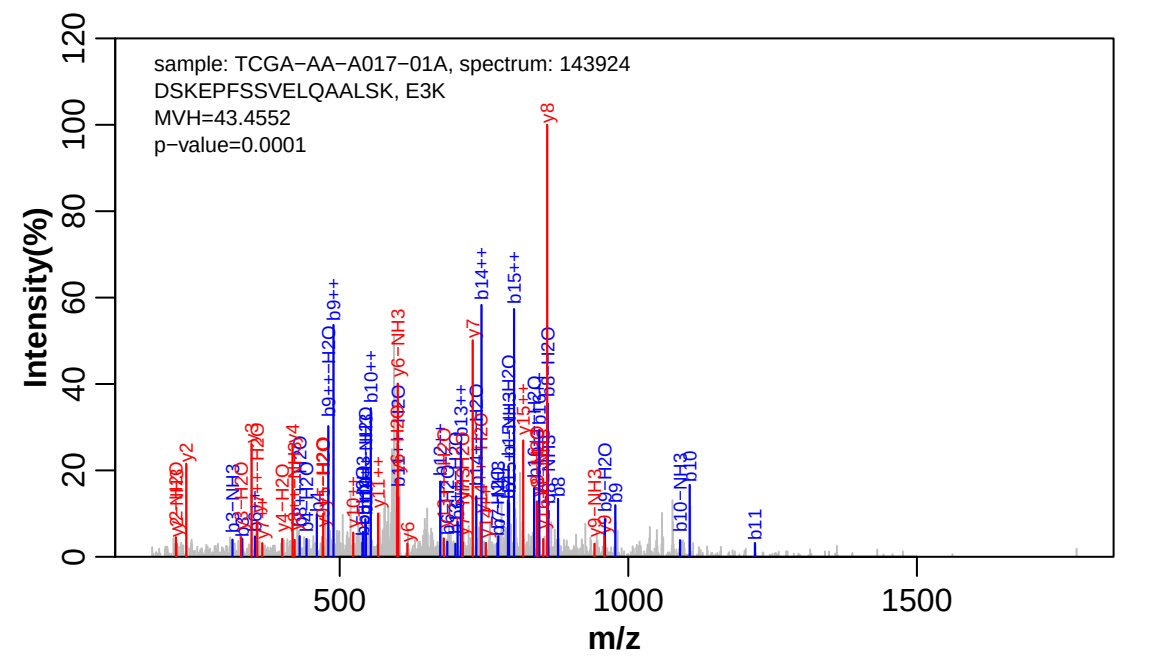

sample: TCGA−AA−A017−01A, spectrum: 57274
AVEVATVVLQPTVLR, S12T
MVH=47.6220
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
b7−H2O
b9
b9−H2O
b10
b6−H2O
b7
b7−NH3
b8−H2O
b8
b8−NH3
b9−NH3
y9
y10
b11
y11
y11−H2O
b13
b13−H2O
b5
b6

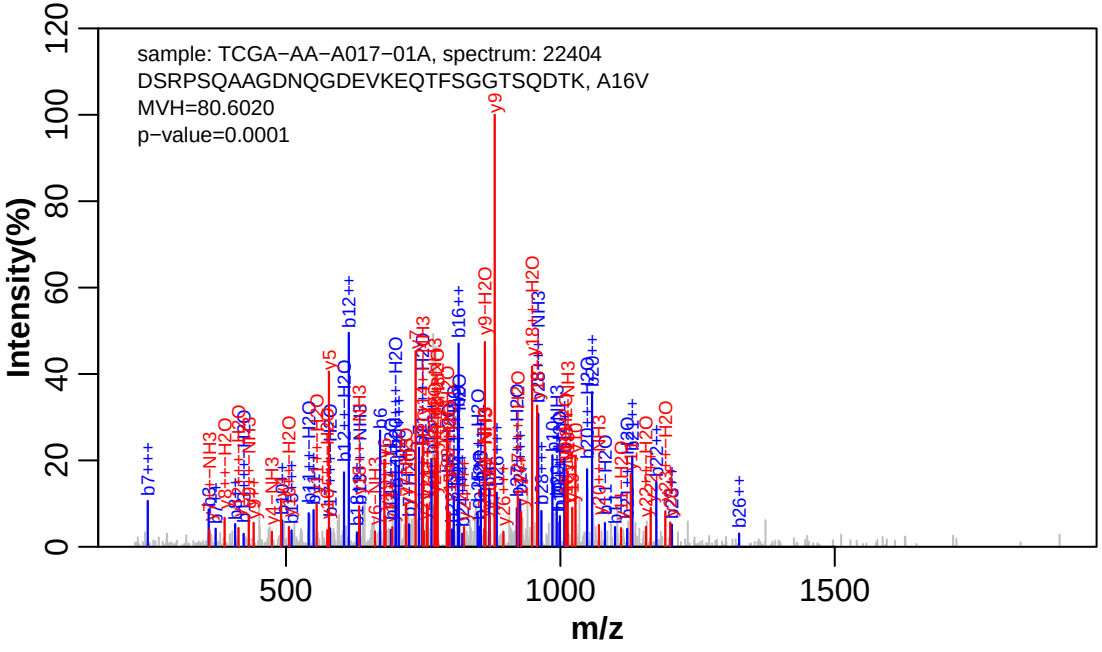

sample: TCGA−AA−A017−01A, spectrum: 27841
AVPTWANVQVVDDPGSLASVESPGTPK, S2N
MVH=35.5404
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y3++−H2O
b4
y8++−H2O
y9++
y5−H2O
y5
y6
b5
y6−H2O
b6
b6−NH3
b12++
y11++
y7−H2O
y7
b17++−H2O
b17++
b20++−H2O
b16
b11
b25++
b13
b25++−H2O
y15−H2O
b16
b17
b18
b19
b20−NH3

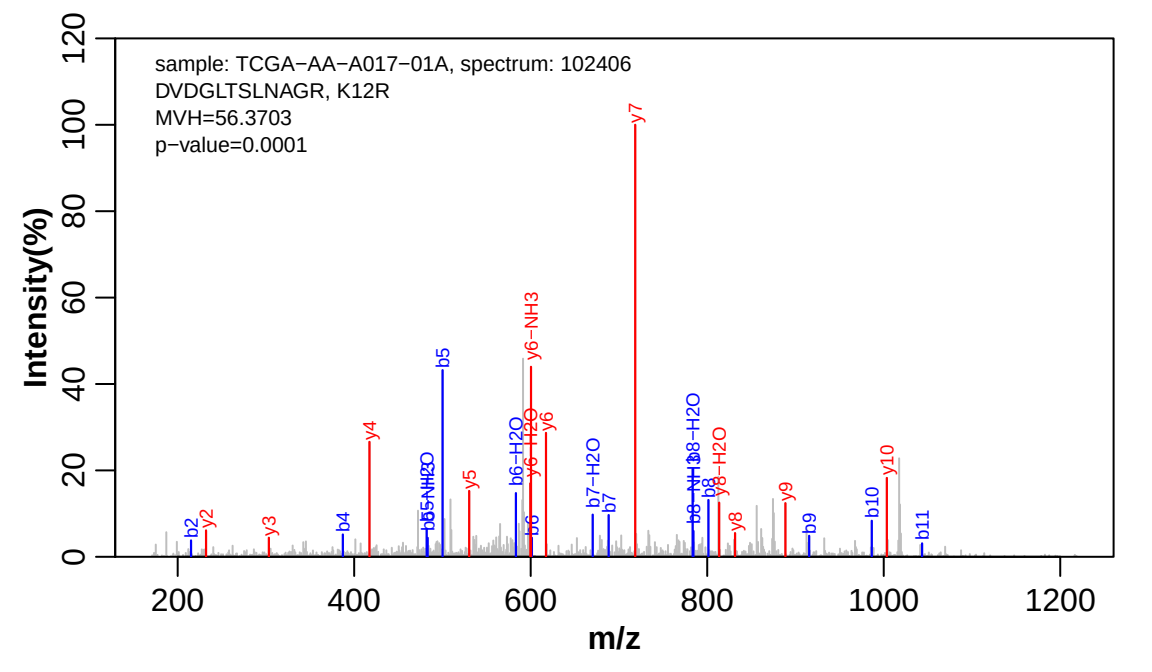

sample: TCGA−AA−A017−01A, spectrum: 113088
AVTDFTSEVTYDPPGR, A14P
MVH=38.4764
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
b6−H2O
b6
b7−NH3
b7−H2O
b7
y7
y8
b8−NH3
b8−H2O
b8
b9
b9−H2O
b10−NH3
b10−H2O
b10
y10
y11
b11−NH3
b11−H2O
b12
b12−NH3
b12−H2O
b13−NH3

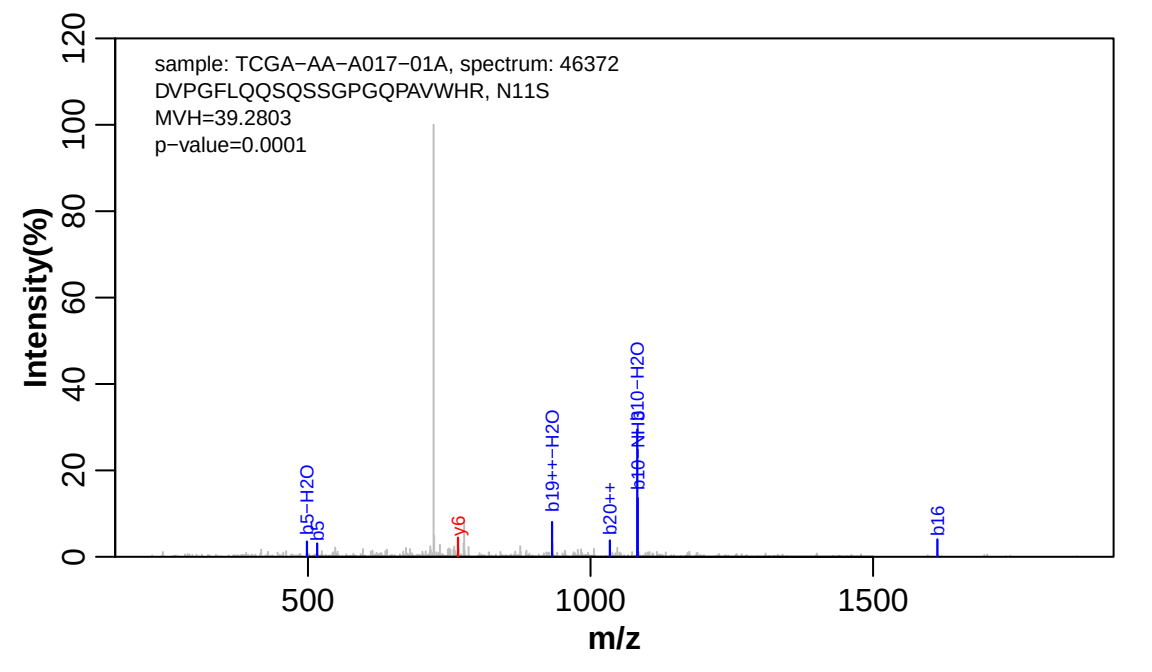

sample: TCGA−AA−A017−01A, spectrum: 8165
DFYVVEPLAFEGTPEQK, I4V
MVH=55.7857
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6
y7
y8
b8
y9
b9
b10
y11
b11
y12
b12
b13
b16

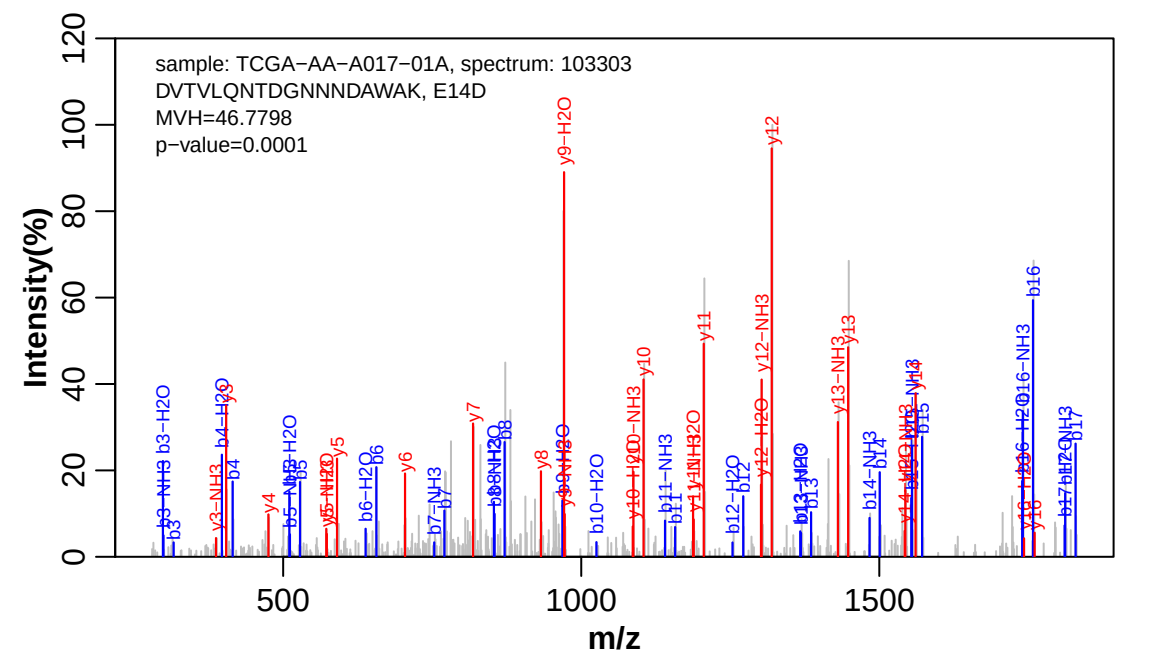

sample: TCGA−AA−A017−01A, spectrum: 121226
DGYGFLNR, N1D
MVH=47.6805
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y2
y4
b5
b5−H2O
b5−NH3
b3
b3−H2O
b4−H2O
b4−NH3
b4
b6
b6−H2O
y6
b2
y7

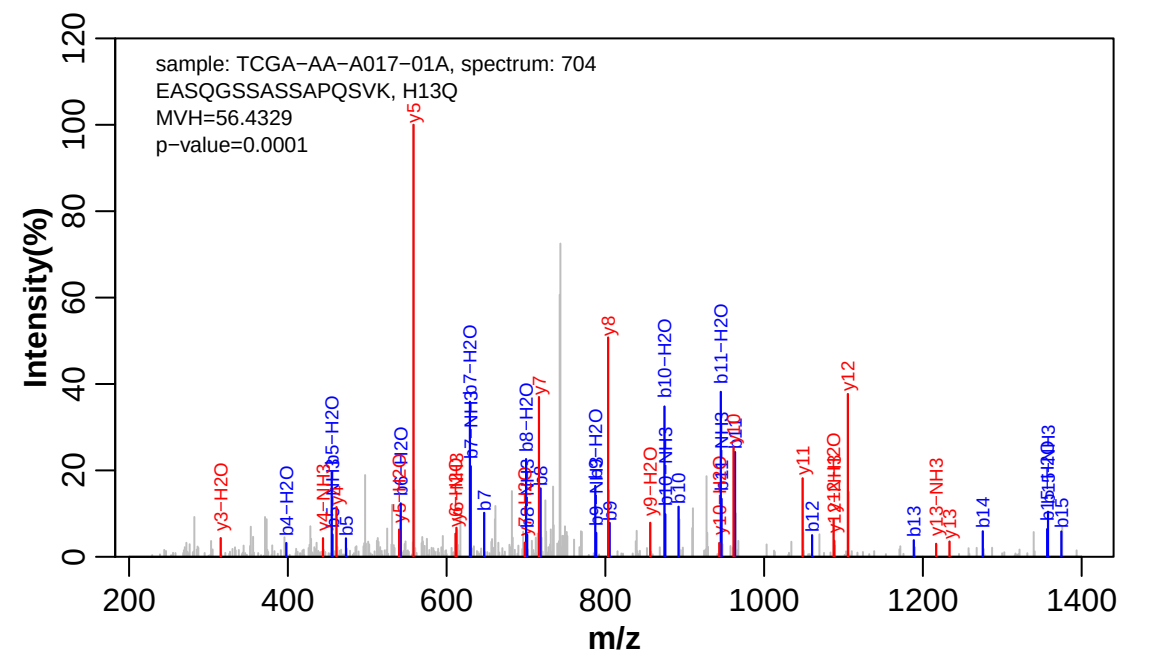

sample: TCGA−AA−A017−01A, spectrum: 143924
DSKEPFSSVELQAALSK, E3K
MVH=43.4552
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y2
b9++
b14++
b15++
y7
y6−NH3
b10++
y11++
y6
b11

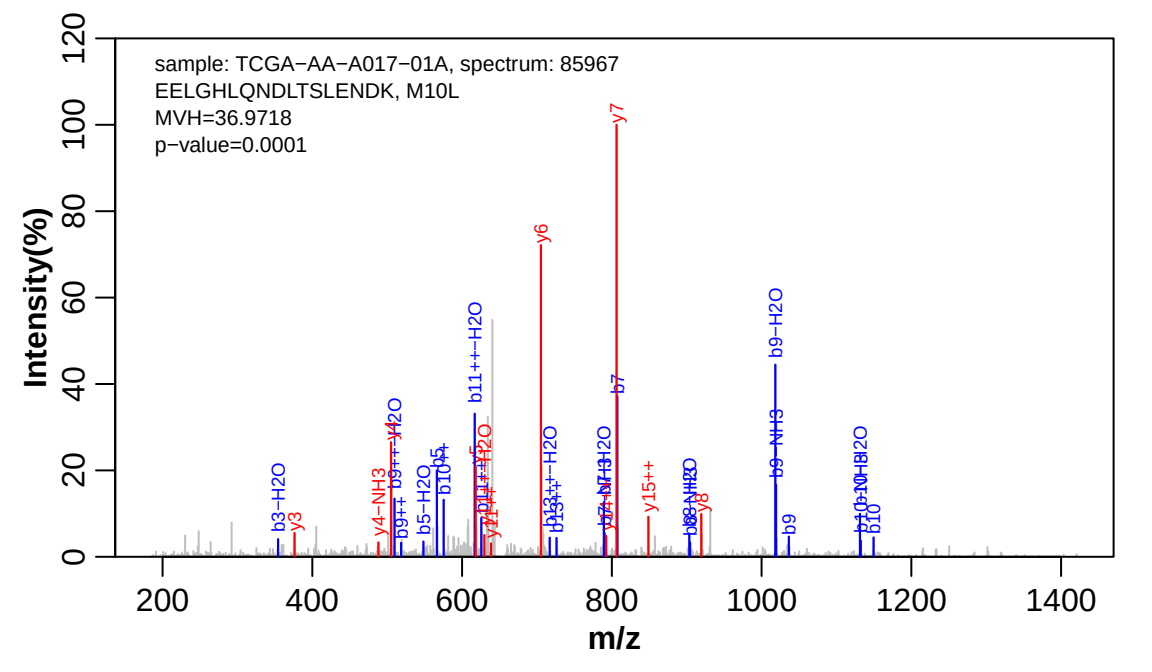

sample: TCGA−AA−A017−01A, spectrum: 22404
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=80.6020
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b7+++
y9
y9−H2O
b12++
b16++
b26++

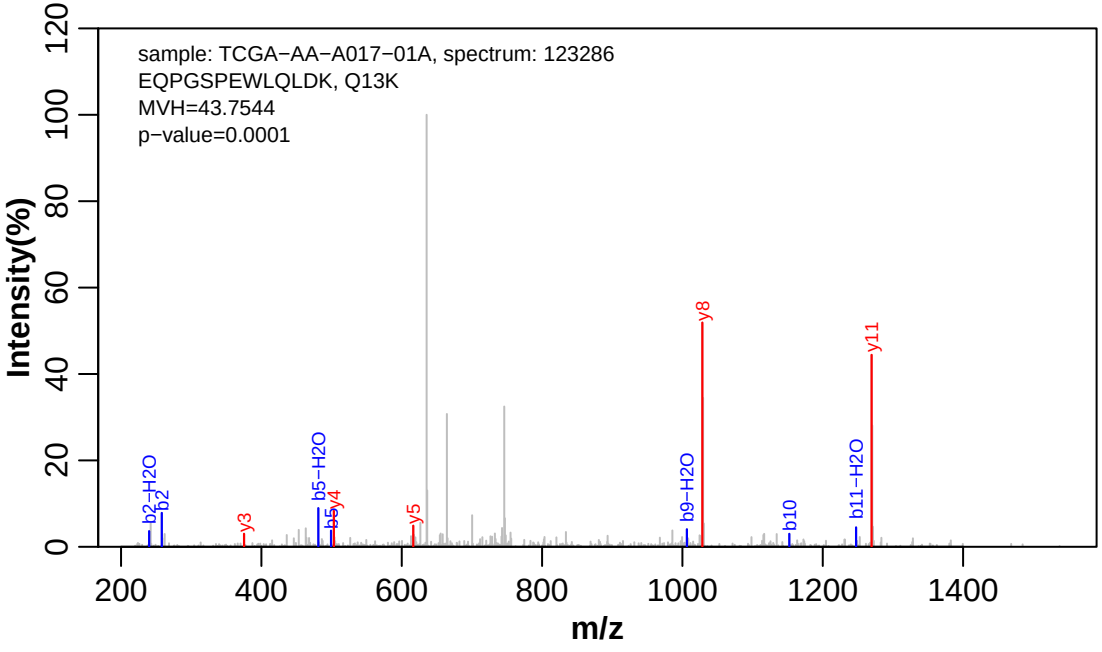

sample: TCGA−AA−A017−01A, spectrum: 102406
DVDGLTSLNAGR, K12R
MVH=56.3703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b4
y4
b5
b5−NH3
b5−H2O
y5
b6−H2O
y6−NH3
y6−H2O
y6
b6
b7−H2O
b7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y7
y9
b9
b10
y10
b11

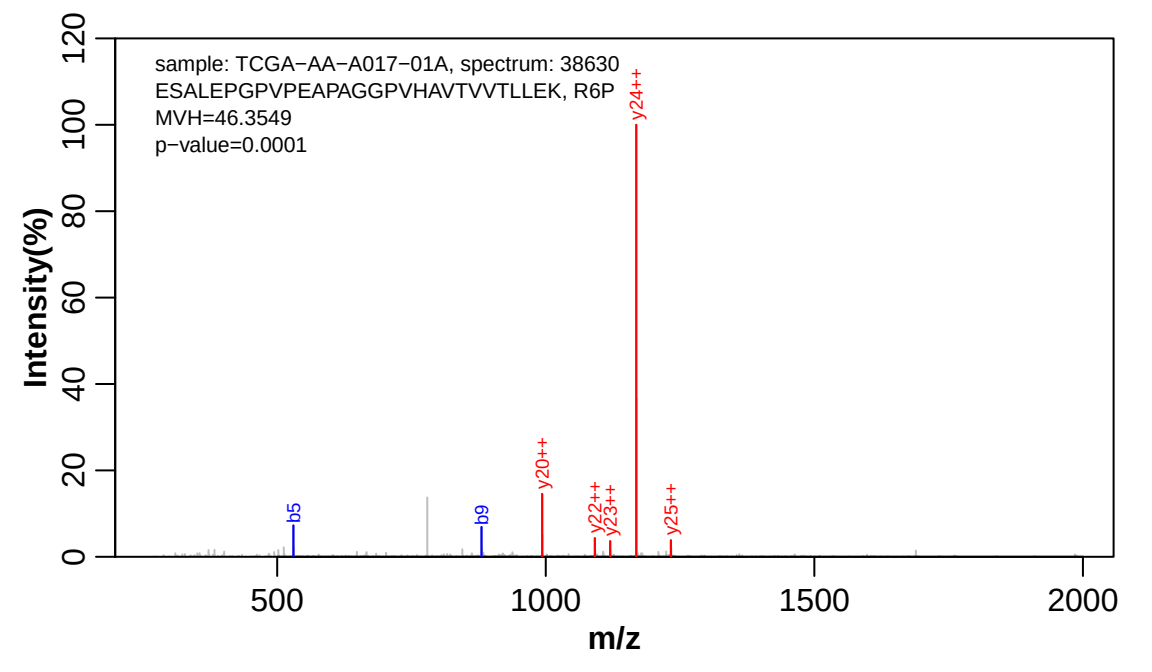

sample: TCGA−AA−A017−01A, spectrum: 46372
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=39.2803
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
b5
y6
b19++−H2O
b20++
b10−NH3
b10−H2O
b16

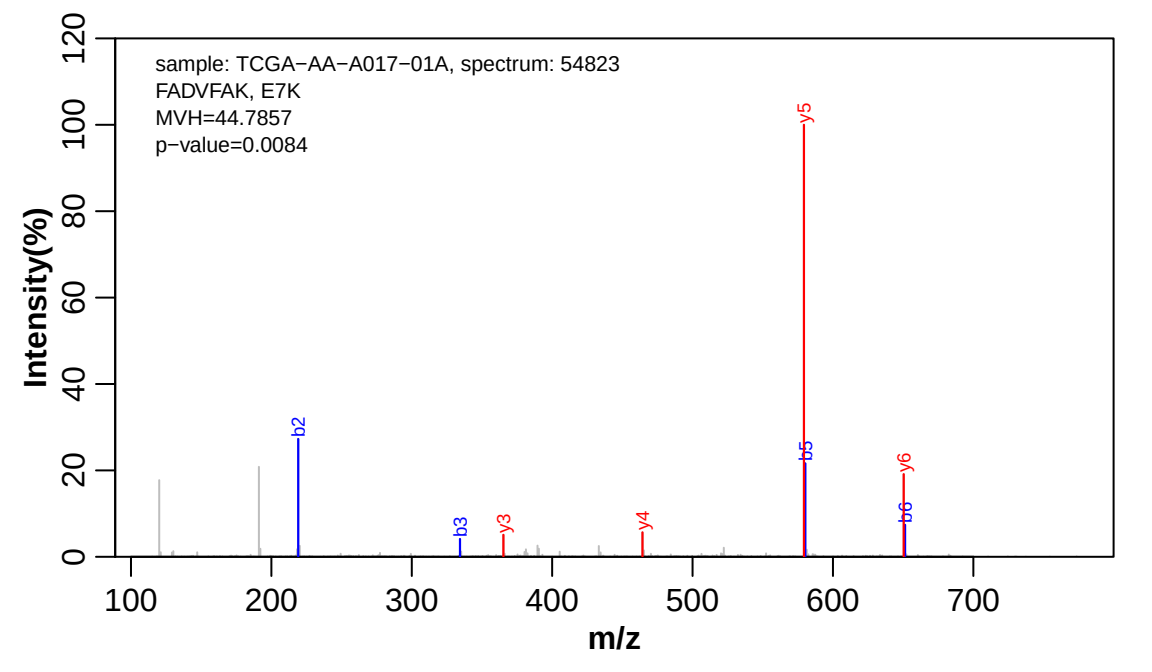

sample: TCGA−AA−A017−01A, spectrum: 103303
DVTVLQNTDGNNNDAWAK, E14D
MVH=46.7798
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b3−NH3
b3−H2O
y3
y3−NH3
b4
b4−H2O
y4
b5
b5−NH3
b5−H2O
y5
y5−NH3
b6
b6−H2O
y6
b7
b7−NH3
y7
b8
b8−NH3
b8−H2O
y8
y8−NH3
y8−H2O
y9−H2O
b10−H2O
y10−H2O
y10−NH3
y10
b11
b11−NH3
y11
y11−NH3
y11−H2O
b12
b12−H2O
y12
y12−H2O
y12−NH3
y12
b13
b13−NH3
b13−H2O
y13
y13−NH3
b14
b14−NH3
b14−H2O
b15
b15−NH3
b15−H2O
b16
b16−NH3
b16−H2O
b17
b17−NH3
b17−H2O

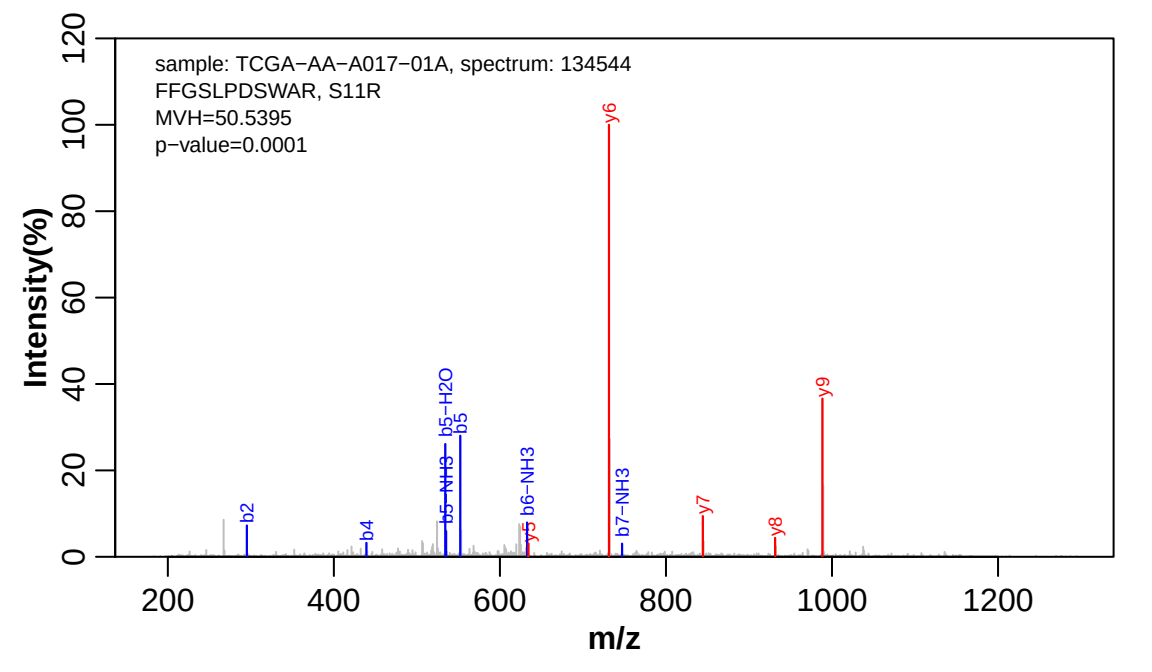

sample: TCGA−AA−A017−01A, spectrum: 704
EASQGSSASSAPQSVK, H13Q
MVH=56.4329
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3−H2O
b4−H2O
y4−NH3
y4
b5−H2O
b5
y5
y5−H2O
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7
b8−H2O
b8
y8
b9−NH3
b9−H2O
b9
y9−H2O
b10−NH3
b10−H2O
b10
y10−NH3
y10−H2O
y10
b11−H2O
b11
y11−NH3
y11
y12
b12
y12−H2O
b13
y13−NH3
y13
b14
b15−H2O
b15−NH3
b15

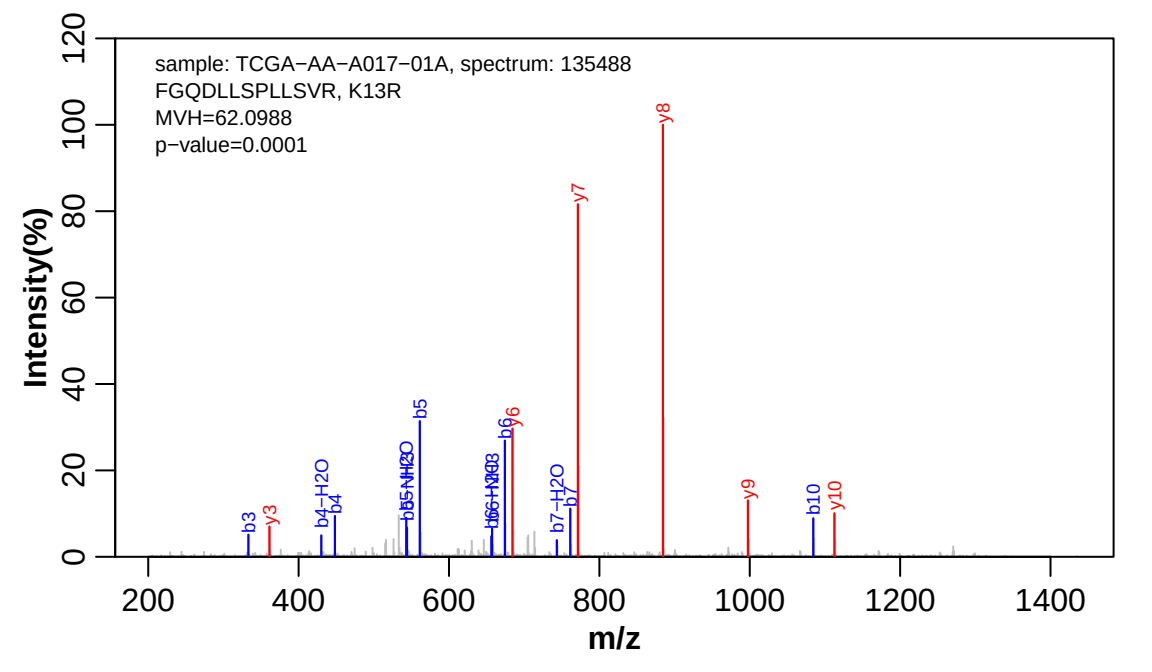

sample: TCGA−AA−A017−01A, spectrum: 85967
EELGHLQNDLTSLENDK, M10L
MVH=36.9718
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
b11++−H2O
b9−H2O
b9−NH3
b9
b7
y15++
y8
b3−H2O
y3
y4−NH3
b5−H2O
b10++

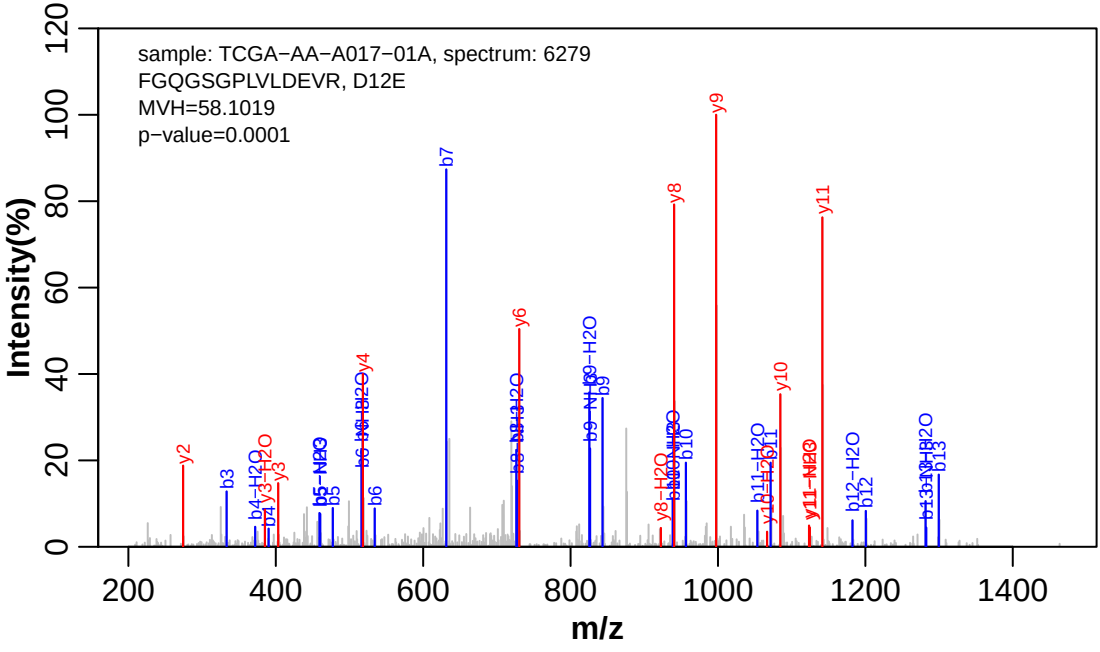

sample: TCGA−AA−A017−01A, spectrum: 123286
EQPGSPEWLQLDK, Q13K
MVH=43.7544
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2−H2O
b2
y3
b5−H2O
b5
y4
y5
b9−H2O
y8
b10
b11−H2O
y11

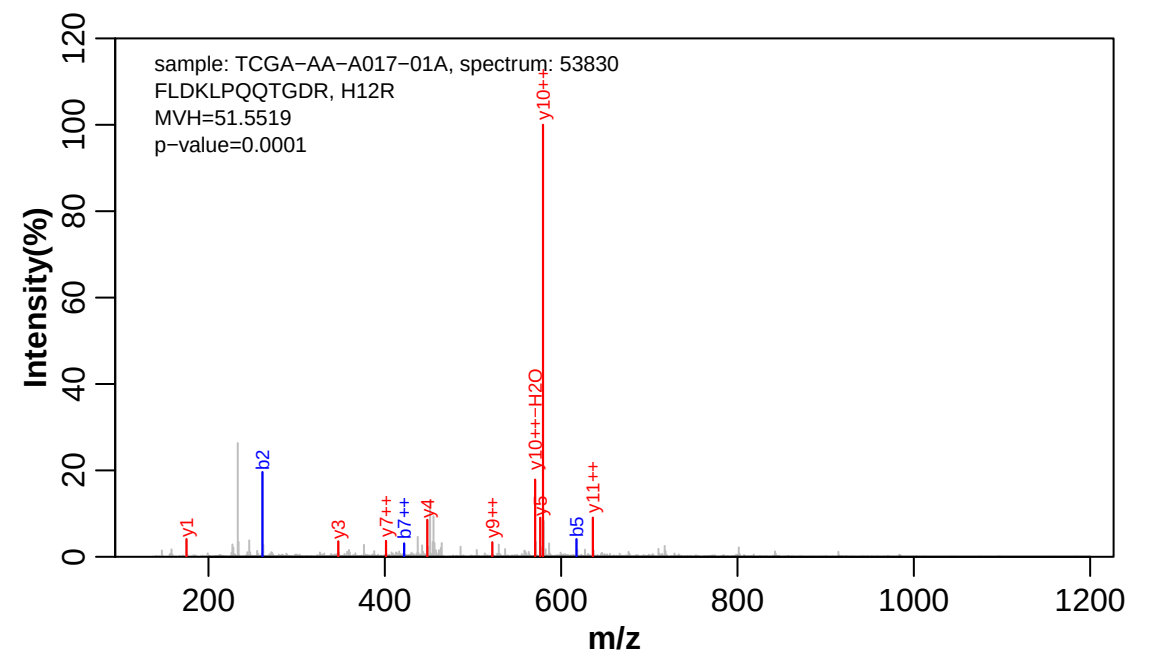

sample: TCGA−AA−A017−01A, spectrum: 38630
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=46.3549
p−value=0.0001
y24++
y20++
y22++
y23++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

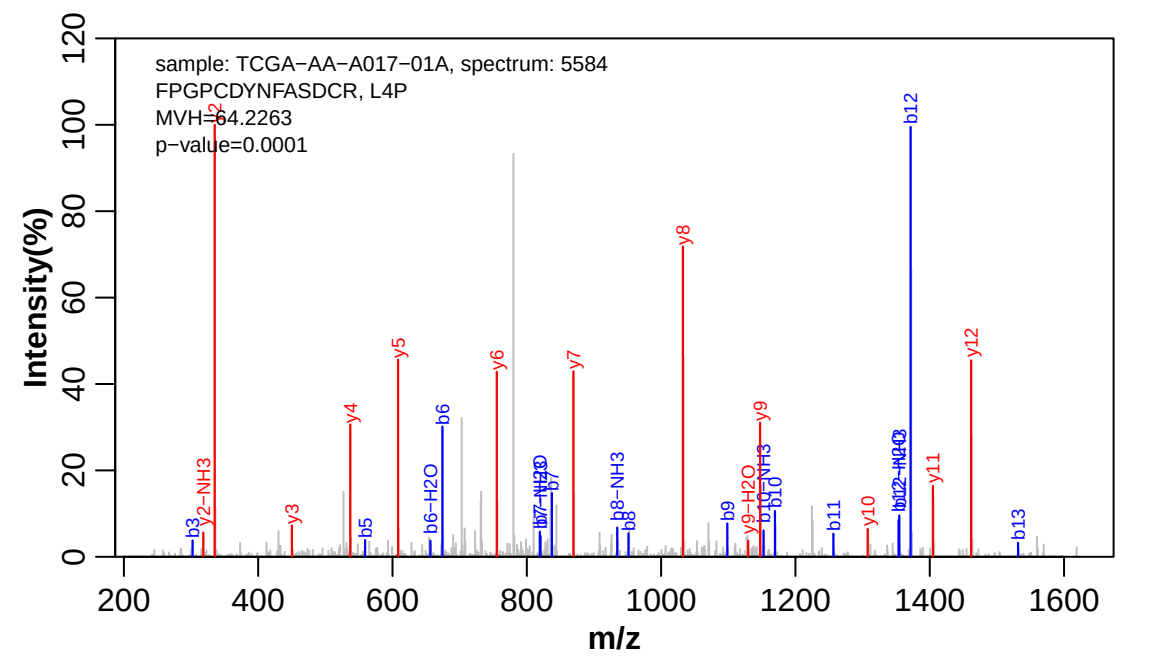

sample: TCGA−AA−A017−01A, spectrum: 54823
FADVFAK, E7K
MVH=44.7857
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z
b2
b3
y3
y4
y5
b5
y6
b6

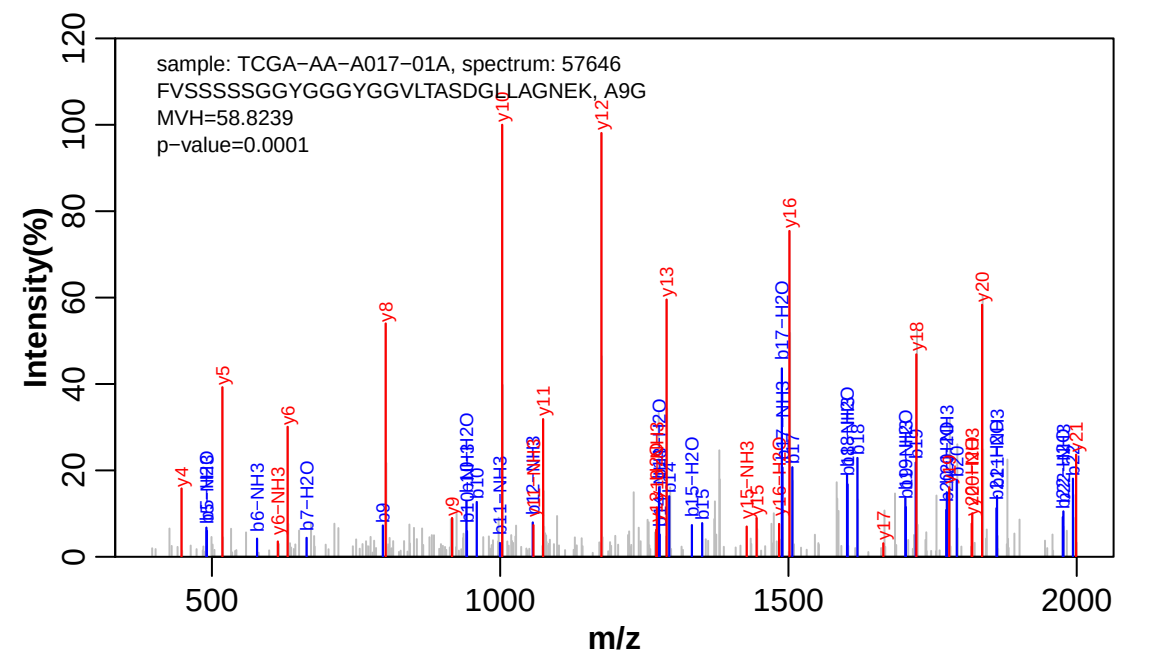

sample: TCGA−AA−A017−01A, spectrum: 134544
FFGSLPDSWAR, S11R
MVH=50.5395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
b5−NH3
b5−H2O
b5
y5
b6−NH3
y6
b7−NH3
y7
y8
y9

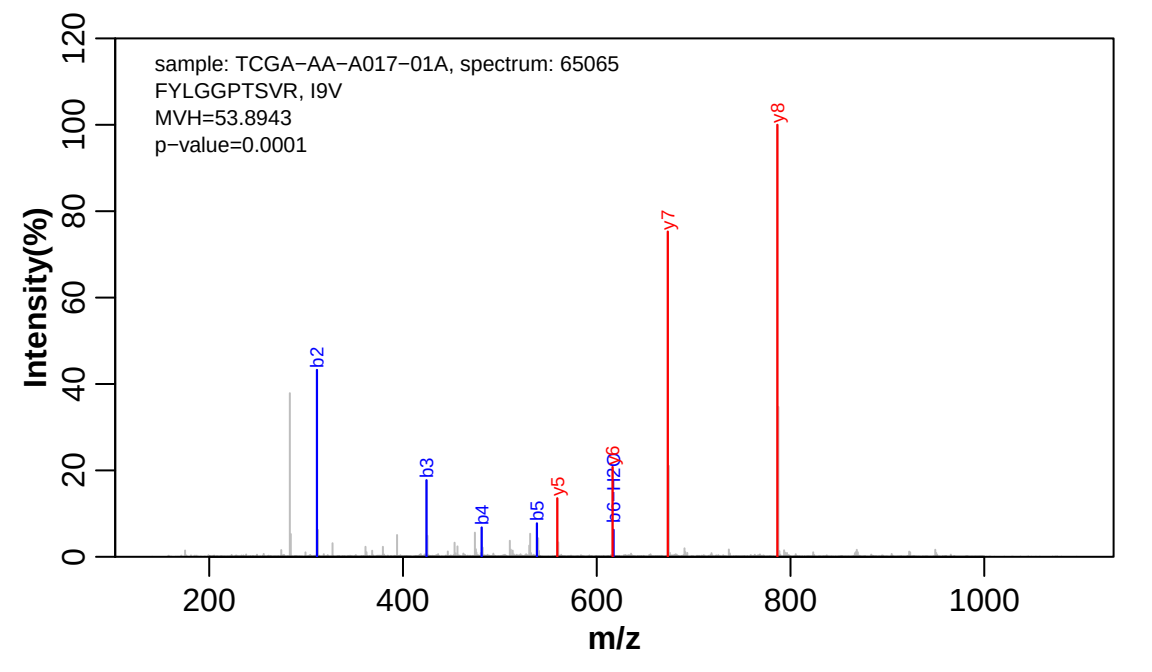

sample: TCGA−AA−A017−01A, spectrum: 135488
FGQDLLSPLLSVR, K13R
MVH=62.0988
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b7−H2O
b7
y7
y8
y9
b10
y10

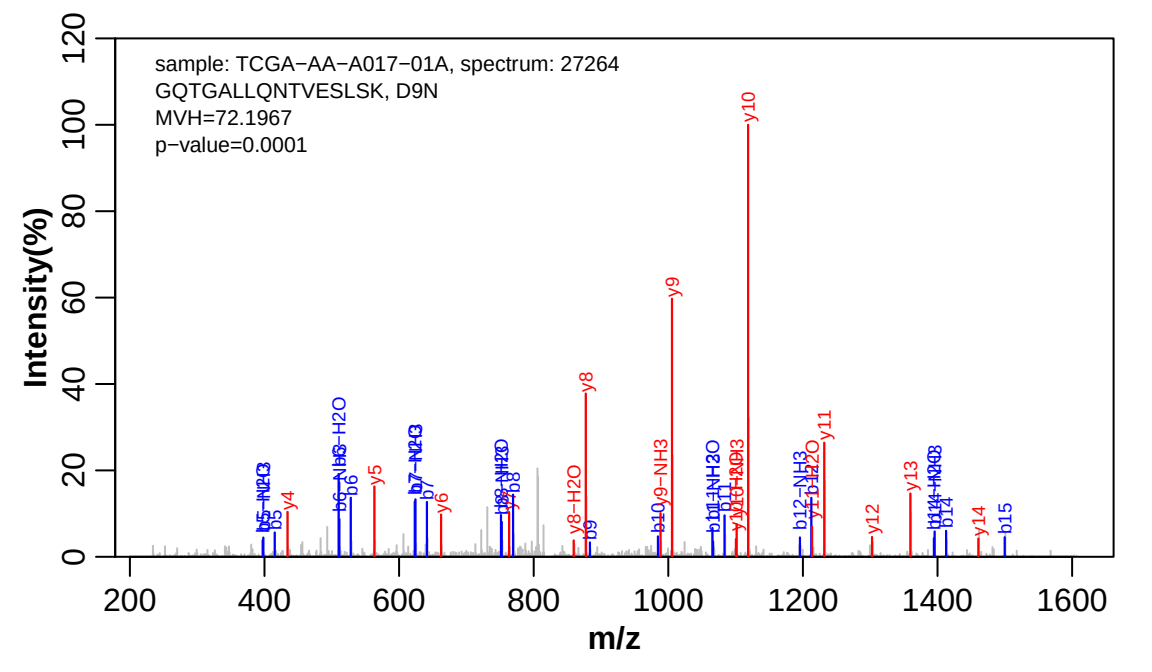

sample: TCGA−AA−A017−01A, spectrum: 6279
FGQGSGPLVLDEVR, D12E
MVH=58.1019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
b4−H2O
b4
y3−H2O
y3
b5−NH3
b5
b6−NH3−H2O
y4
b6
b7
y6
b8−NH3−H2O
b8
b9−NH3−H2O
b9
y8−H2O
y8
b10−H2O
b10
y9
y10−H2O
y10
y11−NH3
y11
b12−H2O
b12
b13−NH3−H2O
b13

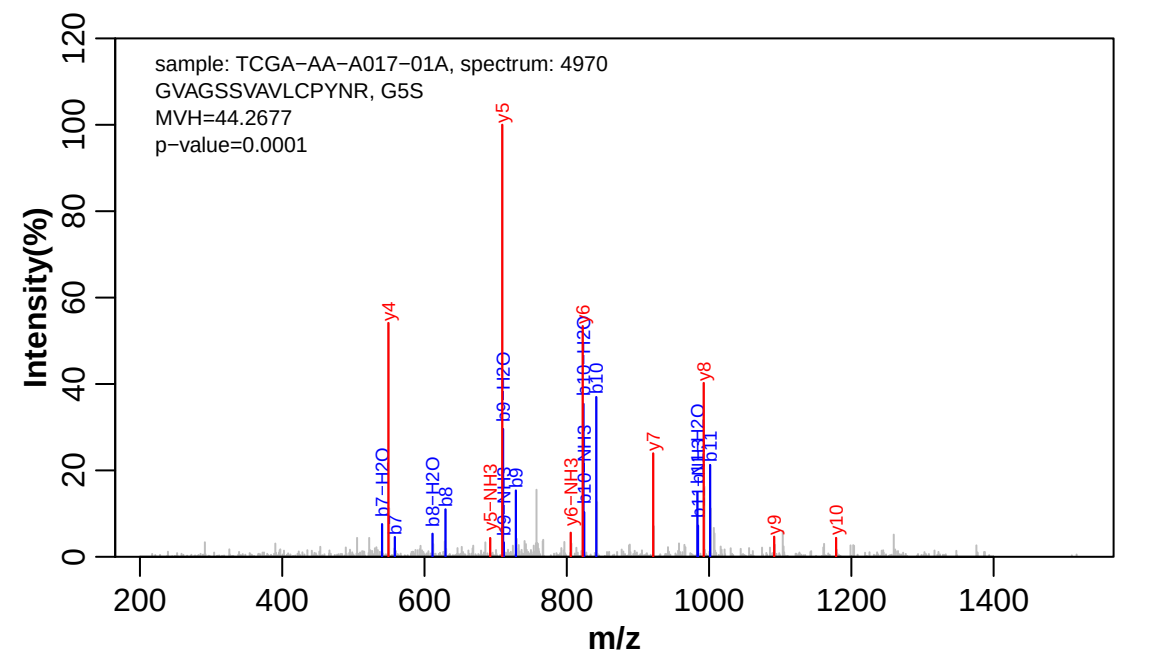

sample: TCGA−AA−A017−01A, spectrum: 53830
FLDKLPQQTGDR, H12R
MVH=51.5519
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
b2
y1
y3
y7++
b7++
y4
y9++
y6
b5
y11++

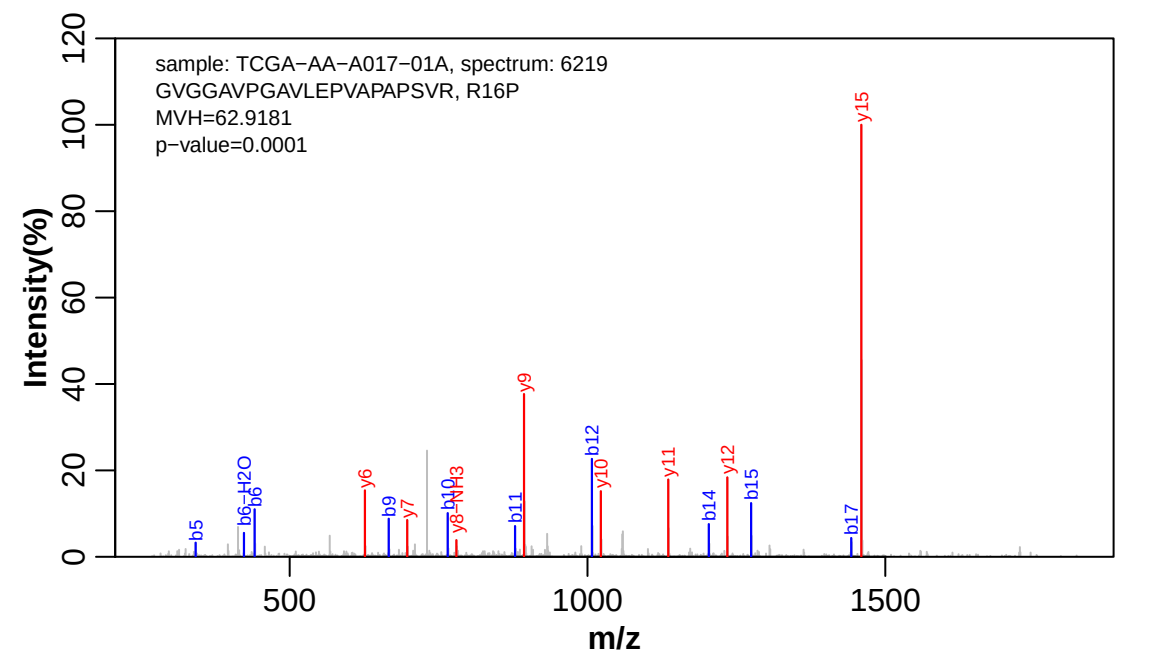

sample: TCGA−AA−A017−01A, spectrum: 5584
FPGPCDYNFASDCR, L4P
MVH=64.2263
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y2−NH3
y3
y4
y5
y6
y7
y8
y9
y9−H2O
y10
y11
y12
b3
b5
b6
b6−H2O
b7
b8−NH3
b8
b9
b10
b10−NH3
b11
b12
b13

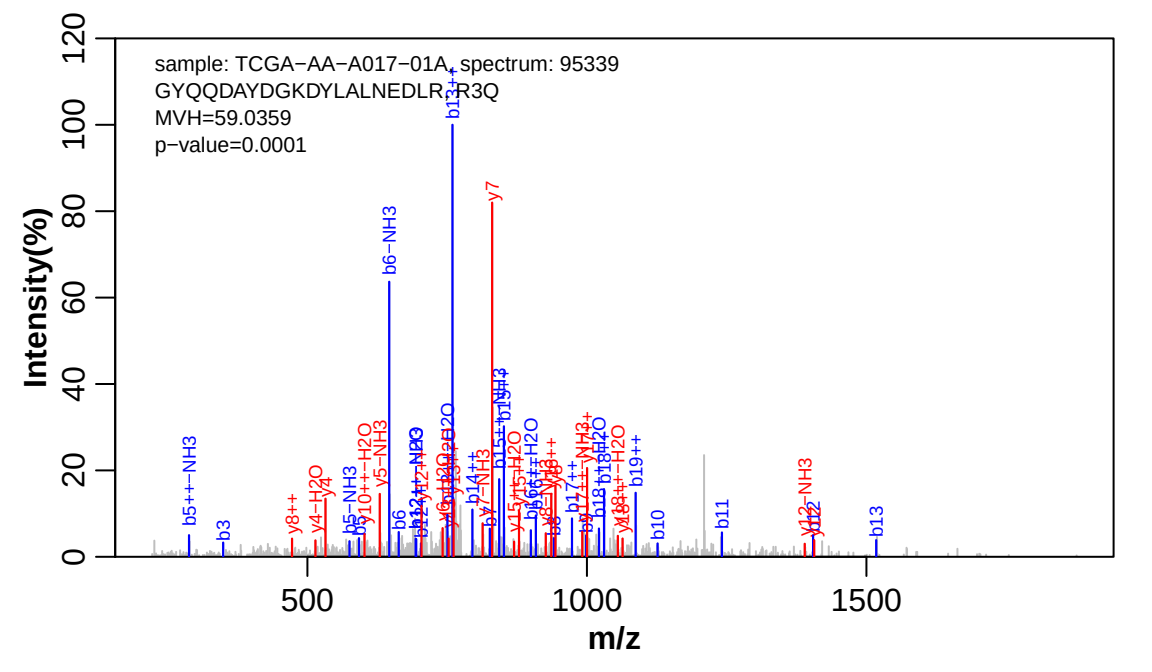

sample: TCGA−AA−A017−01A, spectrum: 57646
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=58.8239
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y8
y9
y10
y11
y12
y13
y15
y16
y17
y18
y20
y21
b5−NH3
b6−NH3
y6−NH3
b7−H2O
b9
b10
b11−NH3
y12−NH3
b14
b15−H2O
y15−NH3
b17−H2O
b18
y20−NH3

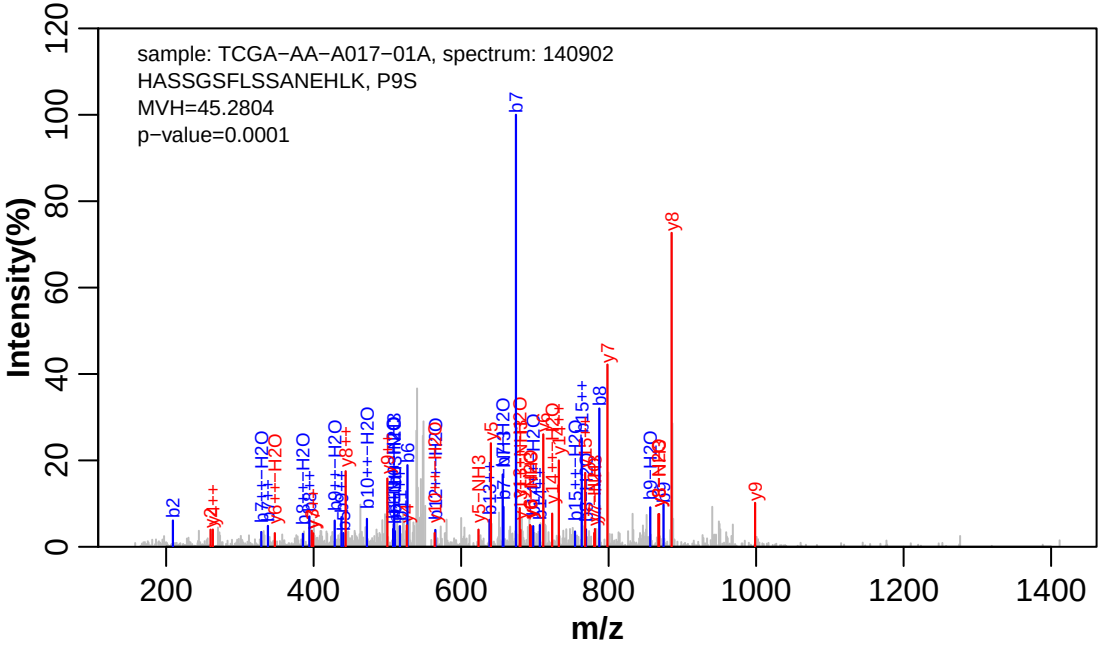

sample: TCGA−AA−A017−01A, spectrum: 65065
FYLGGPTSVR, I9V
MVH=53.8943
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

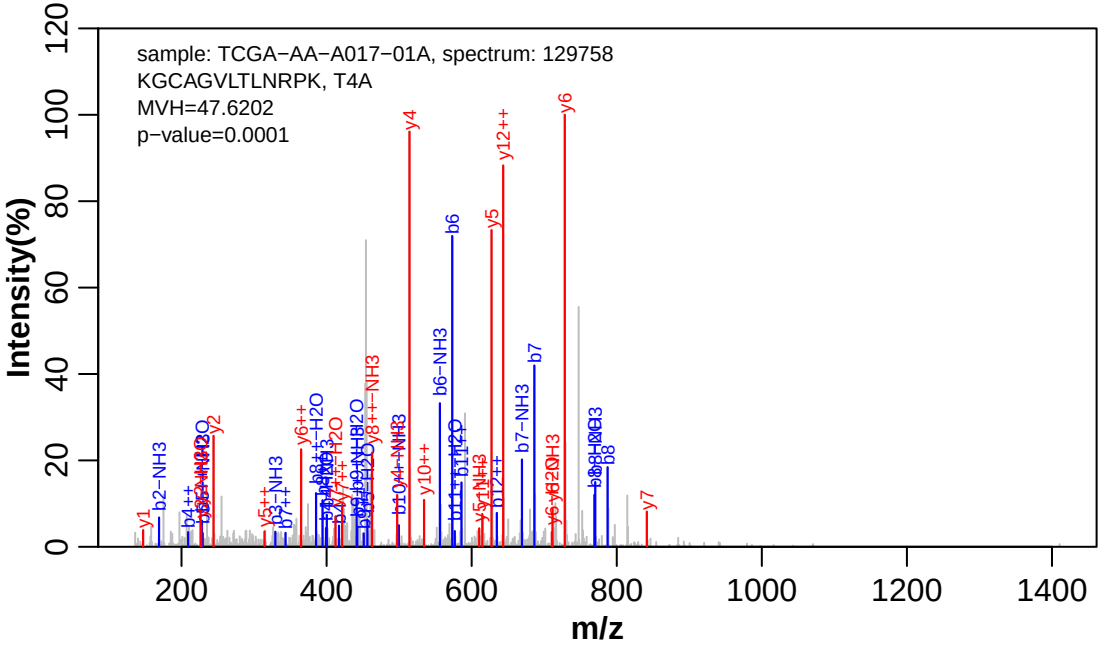

sample: TCGA−AA−A017−01A, spectrum: 27264
GQTGALLQNTVESLSK, D9N
MVH=72.1967
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y8−H2O
y9−NH3
y5
y6
y4
y11
y12
y13
y14
b15
b6
b6−NH3
b6−H2O
b7
b7−NH3
b7−H2O
b8
b8−NH3
b8−H2O
b9
b9−NH3
b9−H2O
b10
b10−NH3
b10−H2O
b11
b11−NH3
b11−H2O
b12
b12−NH3
b12−H2O
b14
b14−NH3
b14−H2O

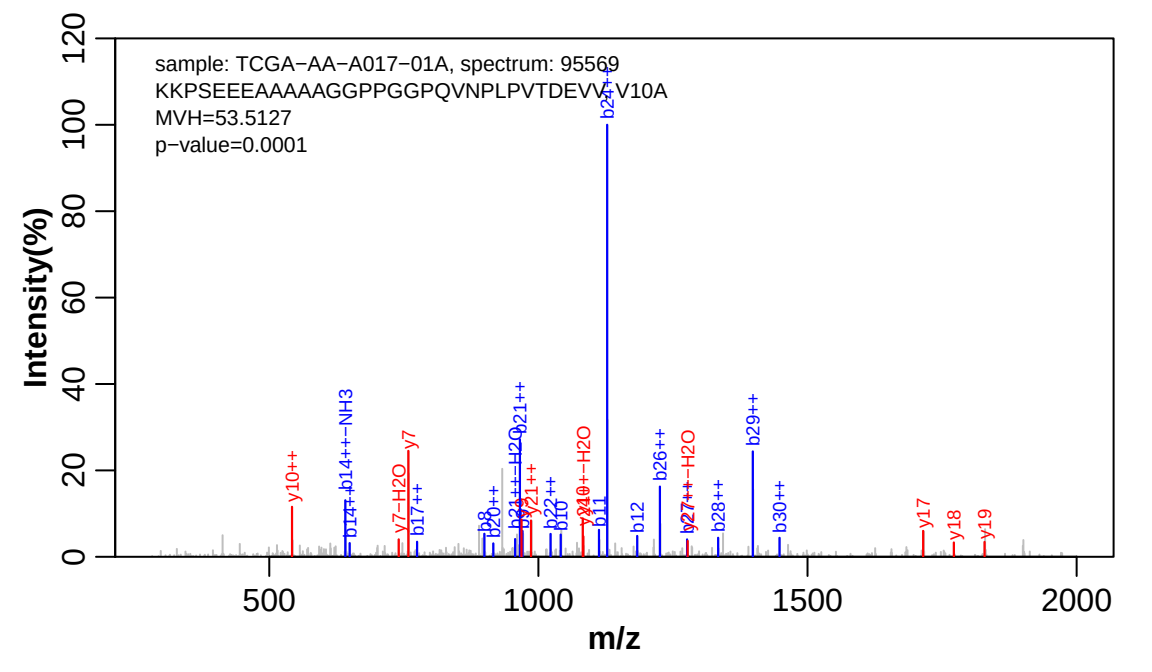

sample: TCGA−AA−A017−01A, spectrum: 4970
GVAGSSVAVLCPYNR, G5S
MVH=44.2677
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y6−H2O
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
b9−H2O
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11−NH3
b11−H2O
b11
y9
y10

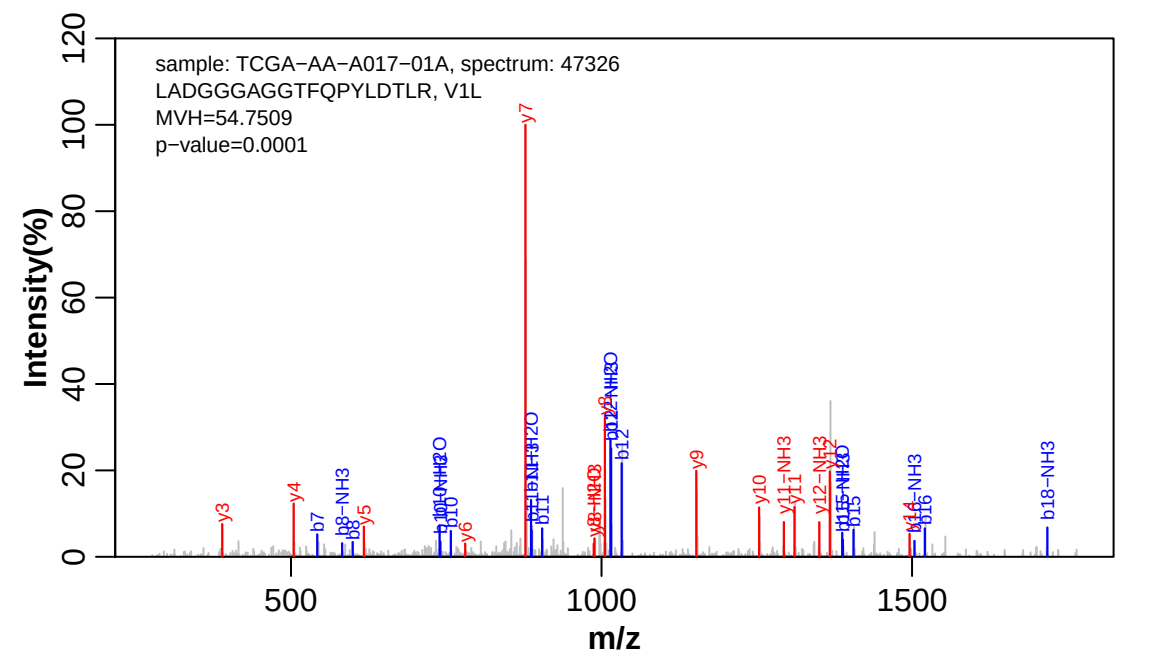

sample: TCGA−AA−A017−01A, spectrum: 6219
GVGGAVPGAVLEPVAPAPSVR, R16P
MVH=62.9181
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6−H2O
b6
y6
b9
y7
b10
y8−NH3
y9
b11
b12
y10
y11
b14
y12
b15
b17
y15

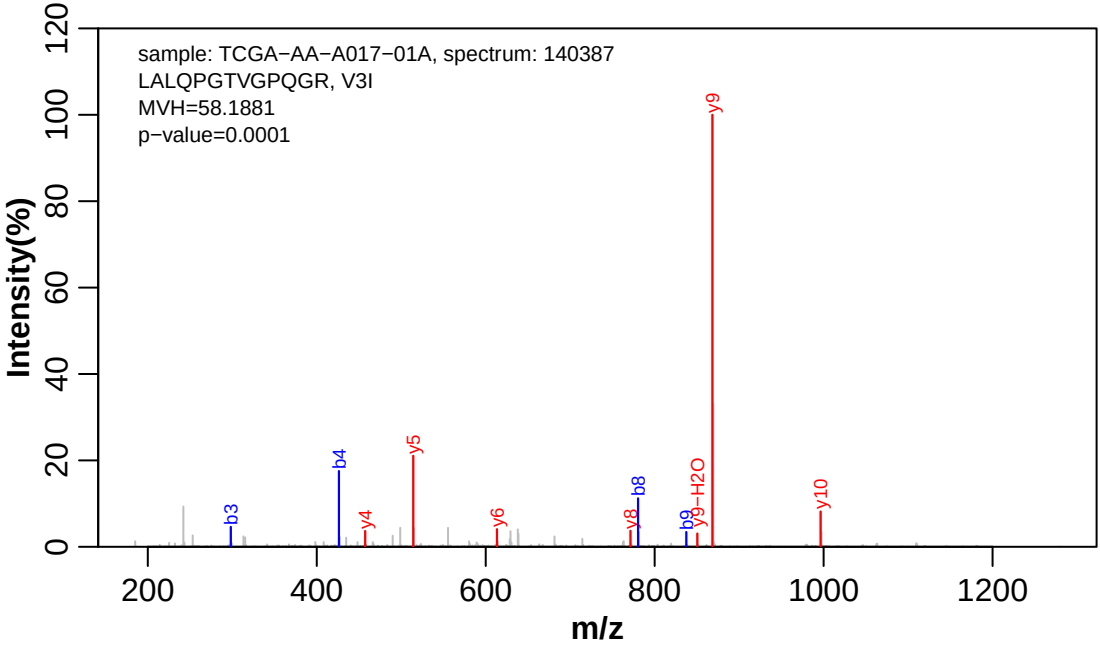

sample: TCGA−AA−A017−01A, spectrum: 95339
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=59.0359
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
y7
b6−NH3
b5++−NH3
b3
y8++
y4−H2O
y4
b5−NH3
y10++−H2O
y5−NH3
b6
b14++
y7−NH3
b15++−NH3
b19++
b10
b11
y12−NH3
y12
b13

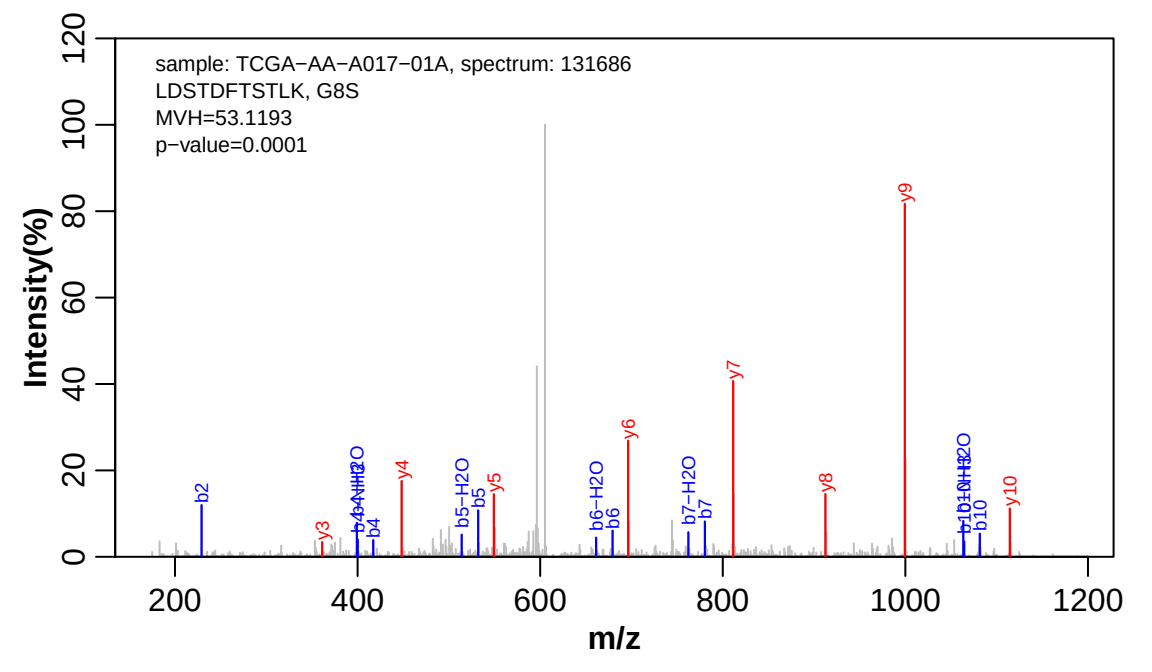

sample: TCGA−AA−A017−01A, spectrum: 140902
HASSGSFLSSANEHLK, P9S
MVH=45.2804
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4++
b7++−H2O
y6++−H2O
b8++−H2O
y8++−H2O
b9++−H2O
y8++
b10++−H2O
b6
y10++−H2O
b7
y5−NH3
b7−H2O
y5
b8
y14++
y15++
y7
b9−H2O
y9
b7
y8

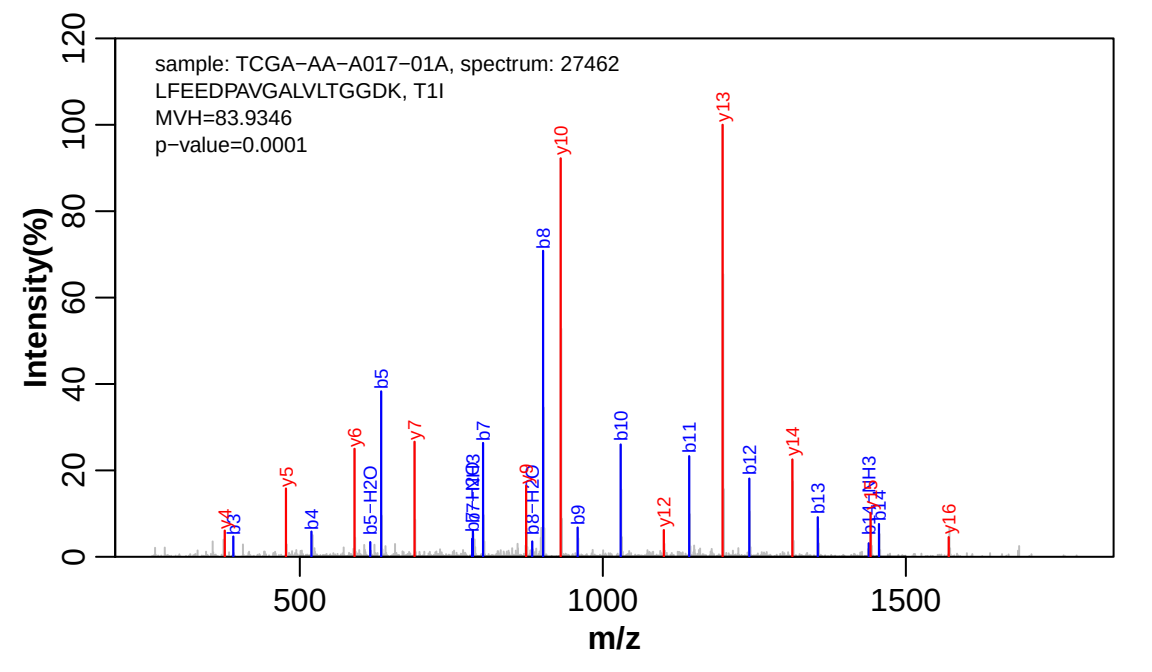

sample: TCGA−AA−A017−01A, spectrum: 129758
KGCAGVLTLNRPK, T4A
MVH=47.6202
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
b2−NH3
b4++
y2
y5++
b7++
y6++
y4
y10++
b6
b6−NH3
y5
y12++
b7
b7−NH3
y7

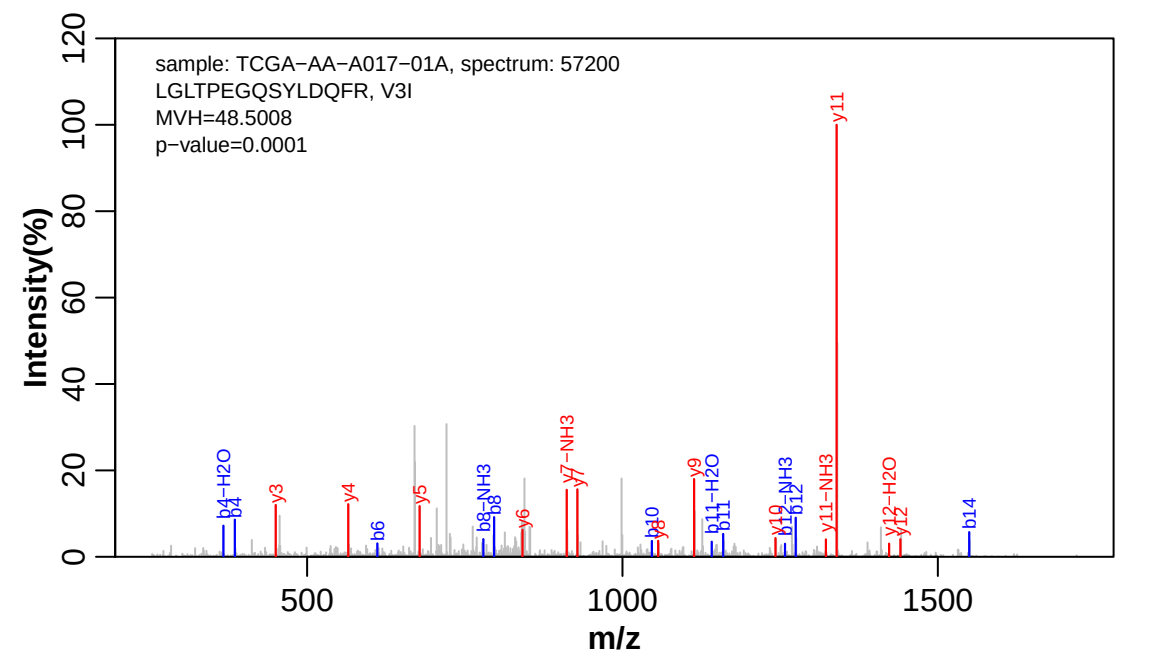

sample: TCGA−AA−A017−01A, spectrum: 95569
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=53.5127
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
y10++
b14++−NH3
y7−H2O
y7
b17++
b8
b20++
b21++−H2O
b21++
y21++
b22++
b10
y10++−H2O
b11
b12
b26++
y27++−H2O
b28++
b29++
b30++
y17
y18
y19

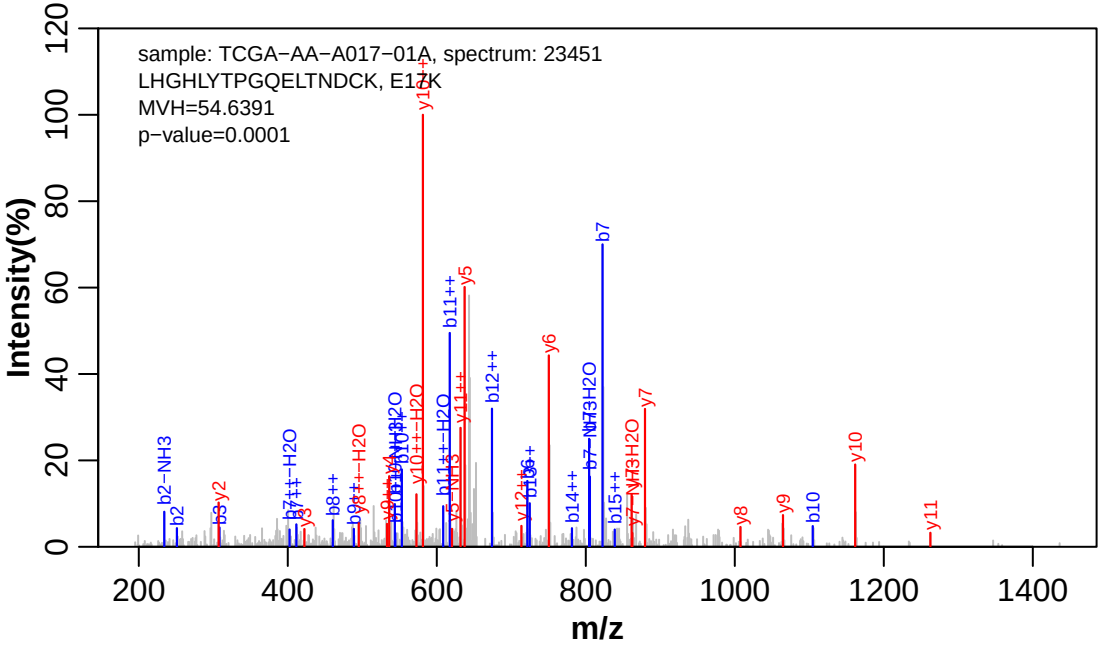

sample: TCGA−AA−A017−01A, spectrum: 47326
LADGGGAGGTFQPYLDTLR, V1L
MVH=54.7509
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7
b8
b8−NH3
y5
y6
b10
y9
y10
y11
y11−NH3
y12−NH3
b15
b16
b16−NH3
b18−NH3

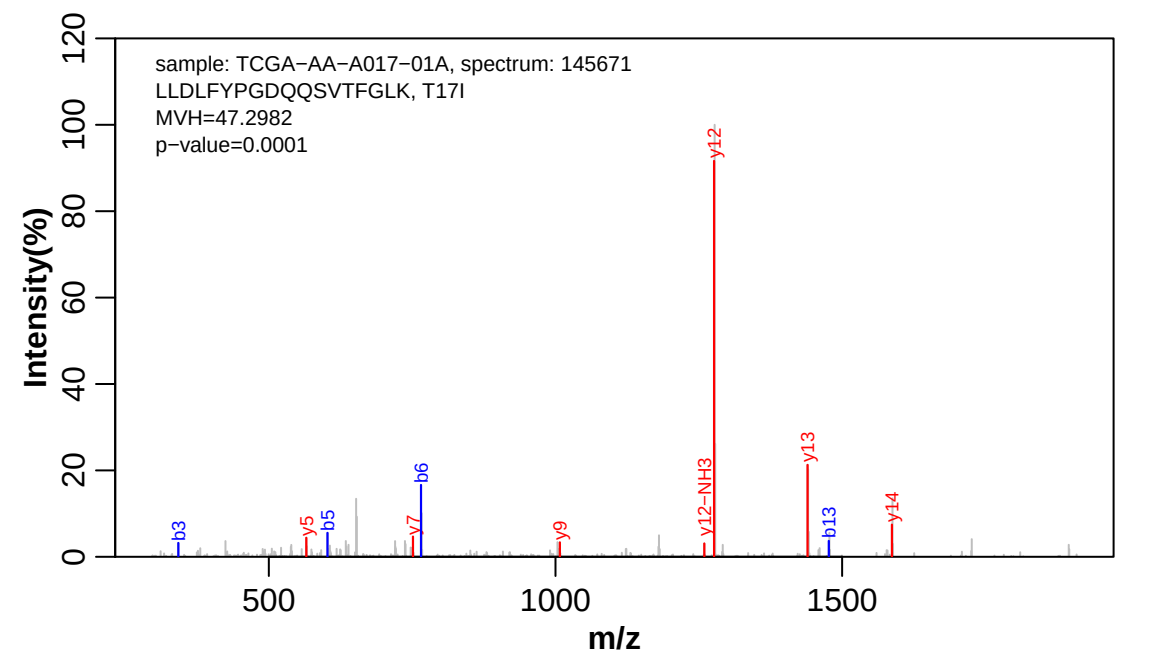

sample: TCGA−AA−A017−01A, spectrum: 140387
LALQPGTVGPQGR, V3I
MVH=58.1881
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b4
y4
y5
y6
b8
y8
b9
y9−H2O
y9
y10

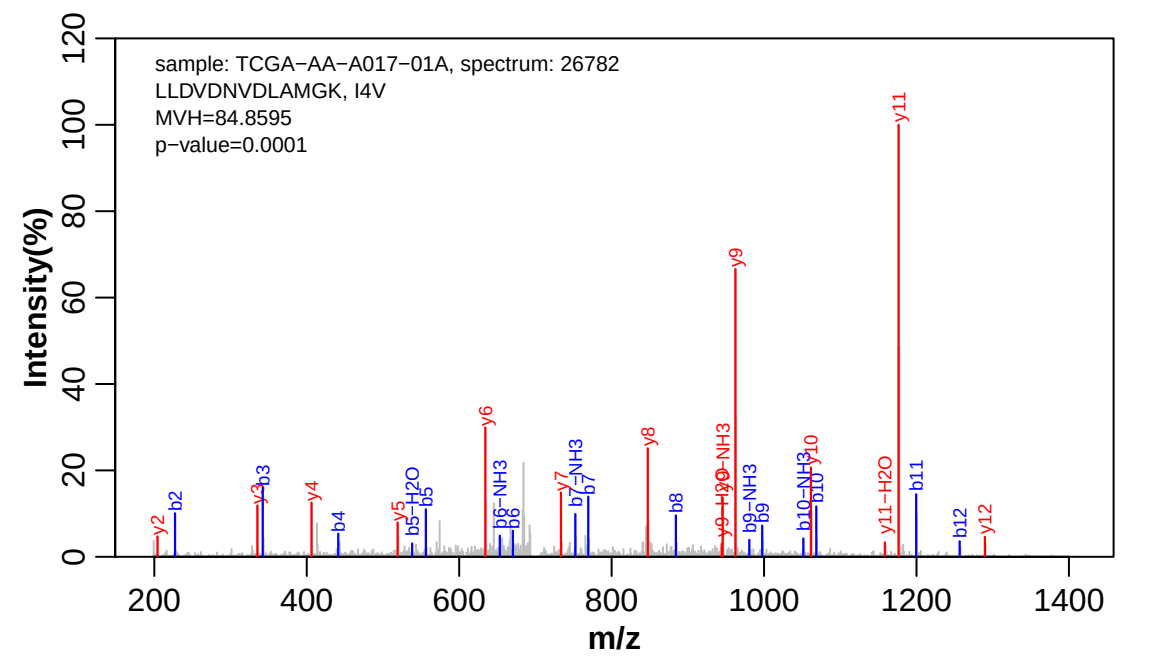

sample: TCGA−AA−A017−01A, spectrum: 131686
LDSTDFTSTLK, G8S
MVH=53.1193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

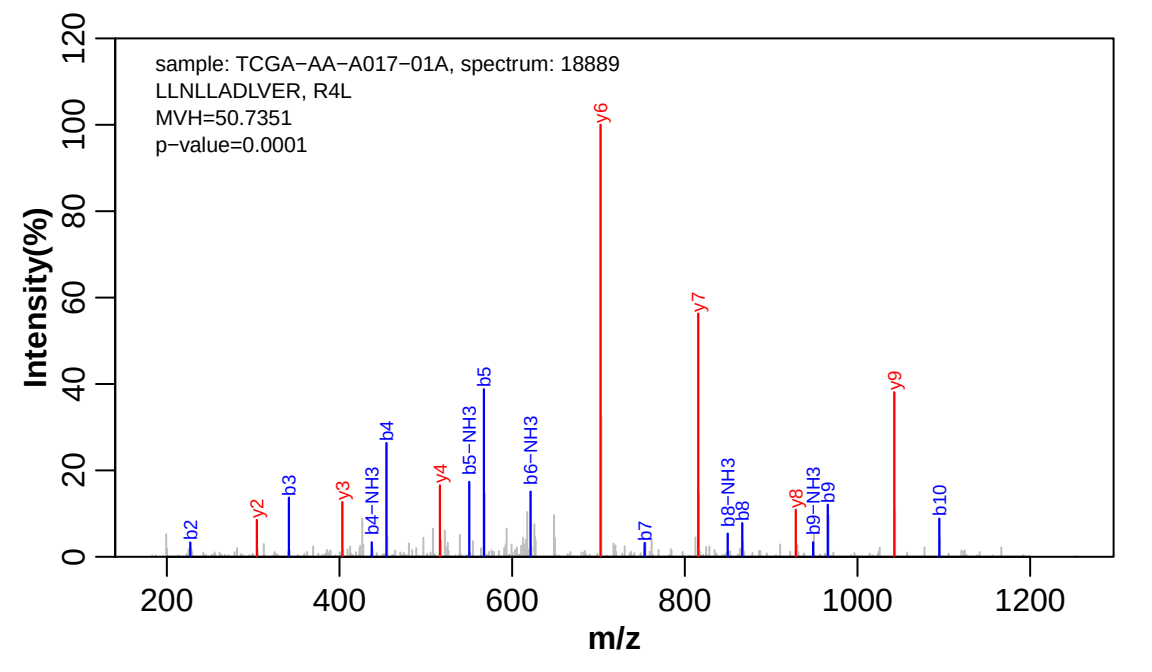

sample: TCGA−AA−A017−01A, spectrum: 27462
LFEEDPAVGALVLTGGDK, T1I
MVH=83.9346
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b3
y5
b4
y6
b5
b5−H2O
y7
b7
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y16

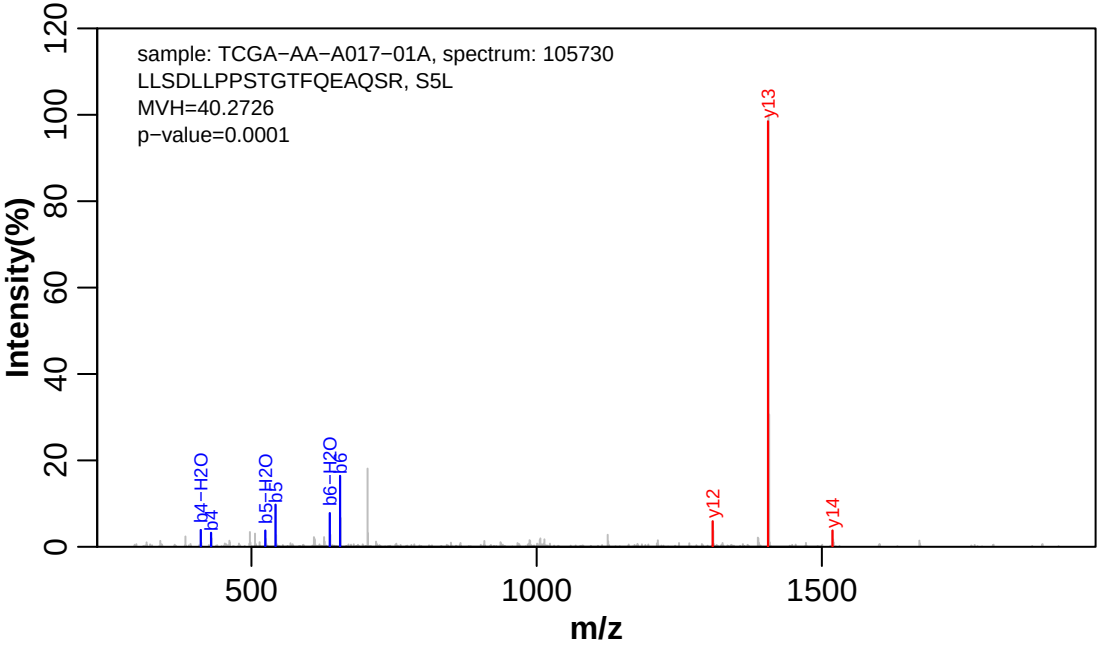

sample: TCGA−AA−A017−01A, spectrum: 57200
LGLTPEGQSYLDQFR, V3I
MVH=48.5008
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
b6
y5
b8−NH3
b8
y6
y7−NH3
y7
b10
y8
y9
b11−H2O
b11
y10
b12−NH3
b12
y11
y11−NH3
y12−H2O
y12
b14

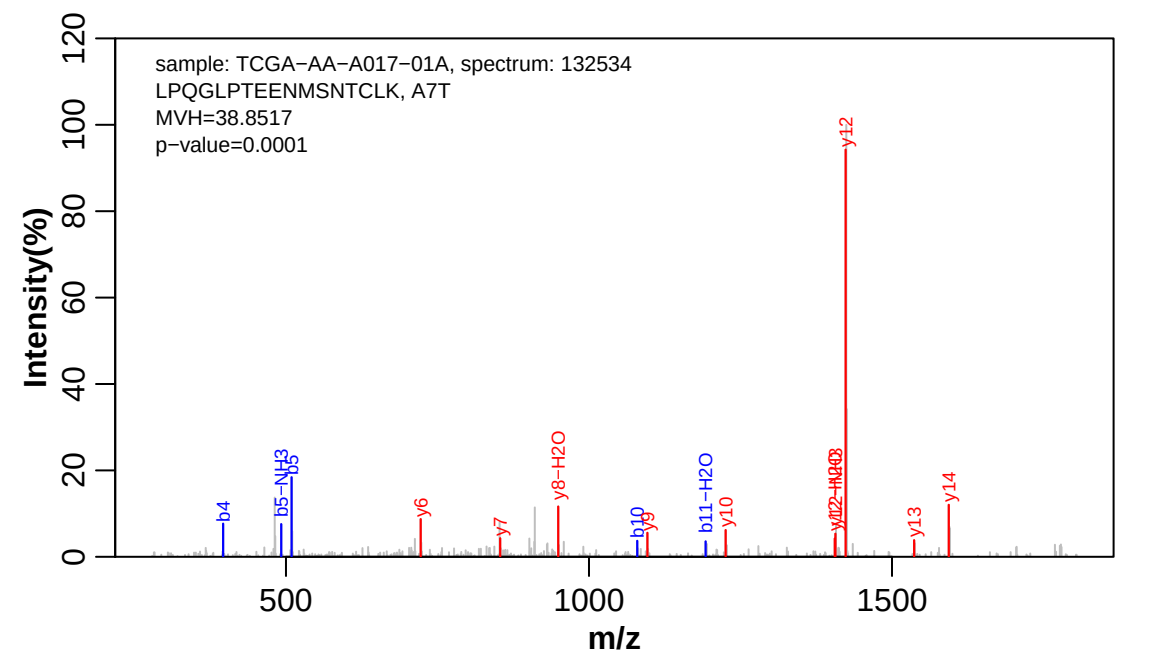

sample: TCGA−AA−A017−01A, spectrum: 23451
LHGHLYTPGQELTNDCK, E1N
MVH=54.6391
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
b3−y2
b7++−H2O
b8++
b8++−H2O
y10++−H2O
b11++−H2O
y5−NH3
b11++
y5
y11++
b12++
y6
b14++
b7−NH3H2O
b7
b15++
y7−NH3H2O
y7
y8
y9
b10
y10
y11

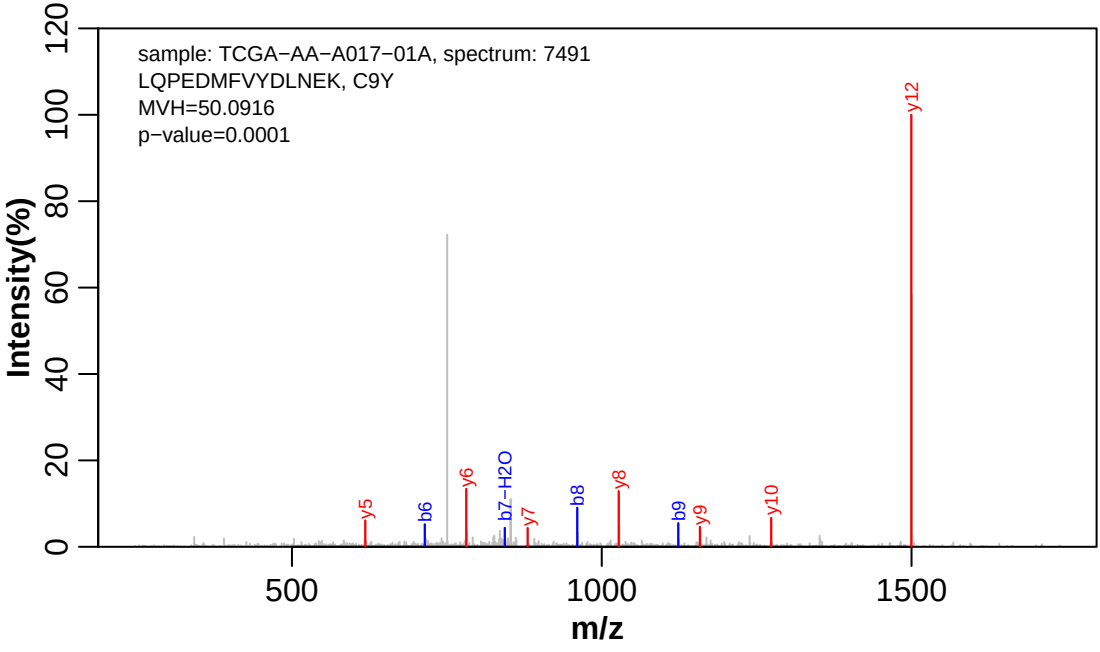

sample: TCGA−AA−A017−01A, spectrum: 145671
LLDLFYPGDQQSVTFGLK, T17I
MVH=47.2982
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y5
b5
y7
b6
y9
y12−NH3
y12
y13
b13
y14

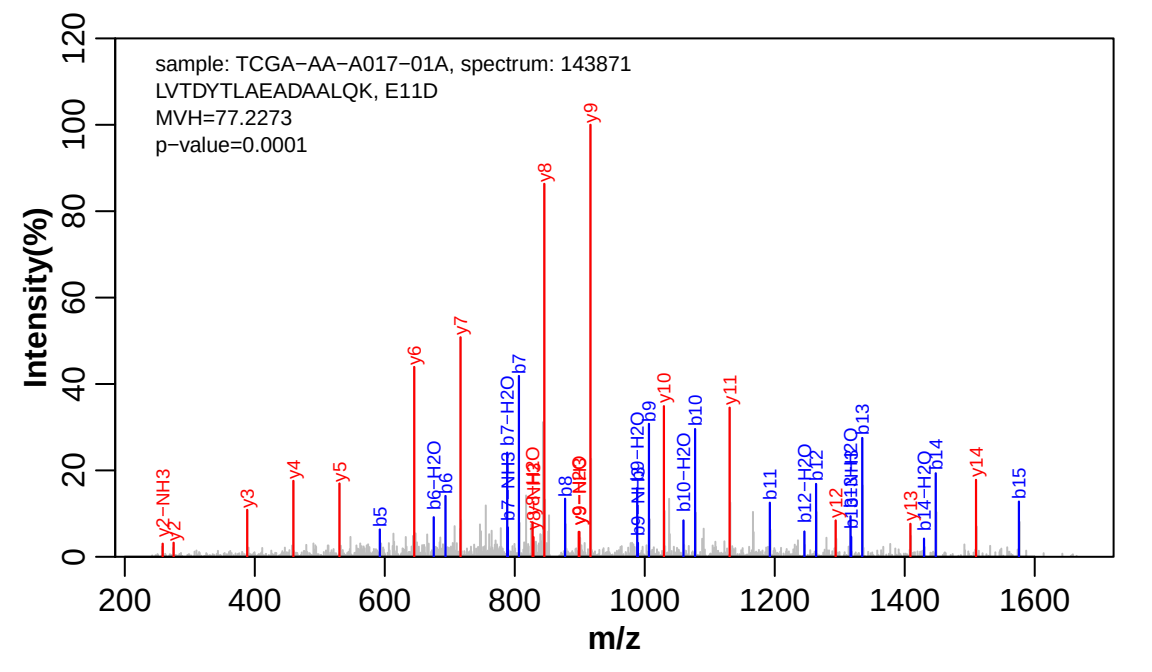

sample: TCGA−AA−A017−01A, spectrum: 26782
LLDVDNVDLAMGK, I4V
MVH=84.8595
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b2
y3
b3
y4
b4
y5
b5−H2O
b5
y6
b6−NH3
b6
y7
b7−NH3
b7
y8
b8
y9−H2O−NH3
y9
b9−NH3
b9
b10−NH3
y10
b10
y11−H2O
y11
b11
b12
y12

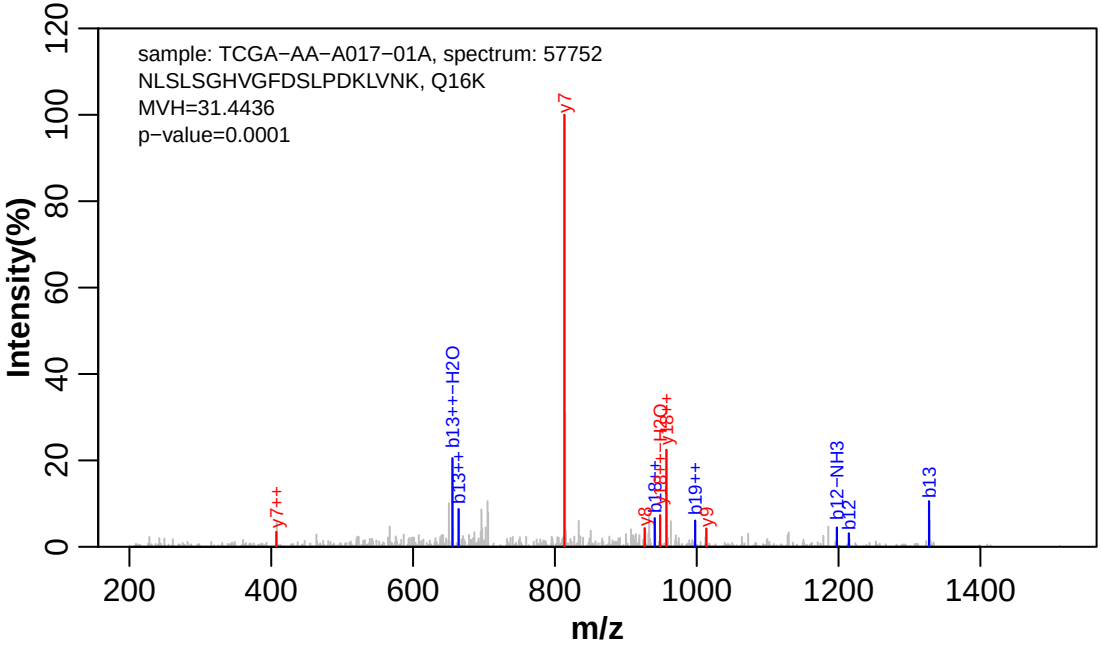

sample: TCGA−AA−A017−01A, spectrum: 18889
LLNLLADLVER, R4L
MVH=50.7351
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

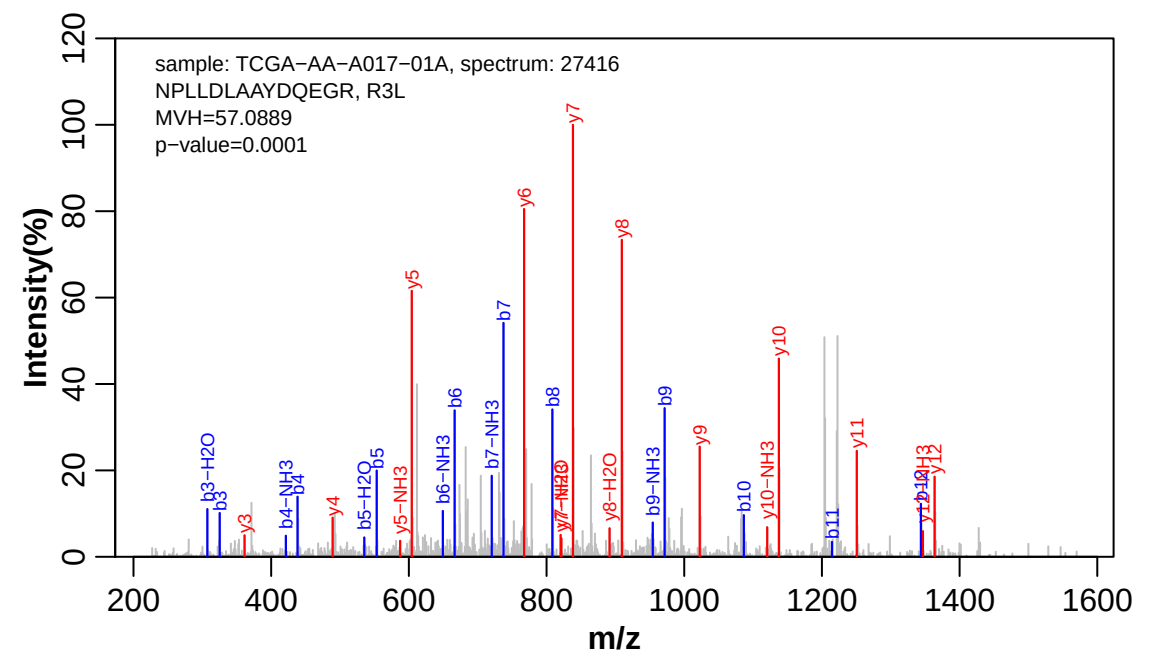

sample: TCGA−AA−A017−01A, spectrum: 105730
LLSDLLPPSTGTFQEAQSR, S5L
MVH=40.2726
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
b5−H2O
b5
b6−H2O
b6
y12
y13
y14

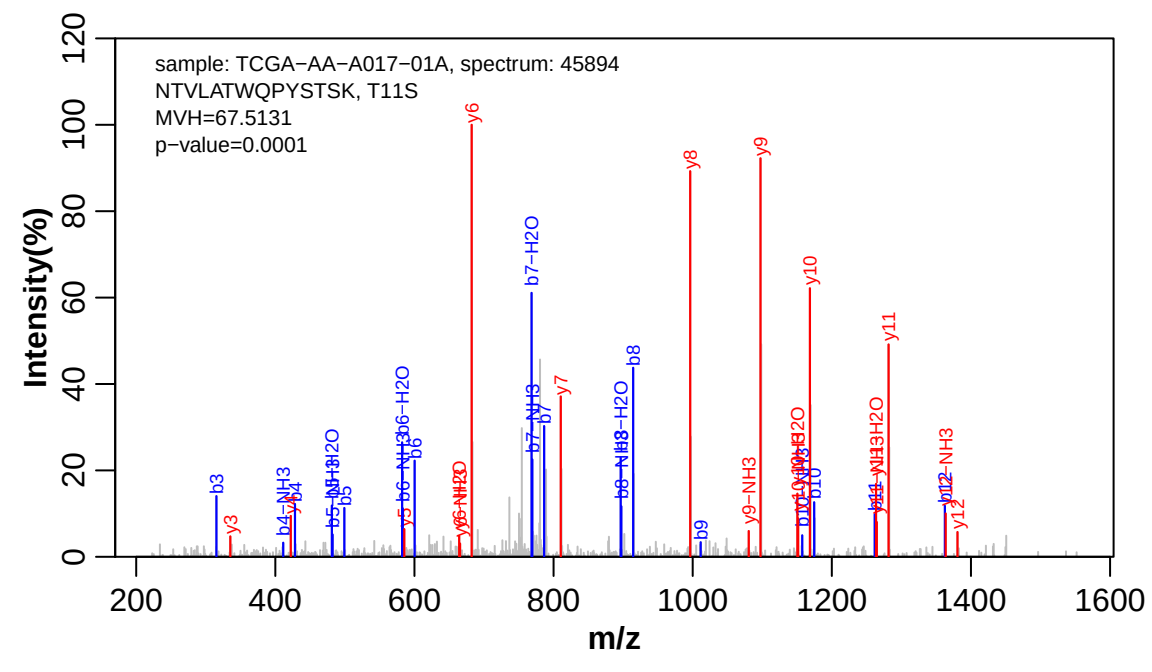

sample: TCGA−AA−A017−01A, spectrum: 132534
LPQGLPTEENMSNTCLK, A7T
MVH=38.8517
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−NH3
b5
y6
y7
y8−H2O
b10
y9
b11−H2O
y10
y12−H2O
y12−NH3
y12
y13
y14

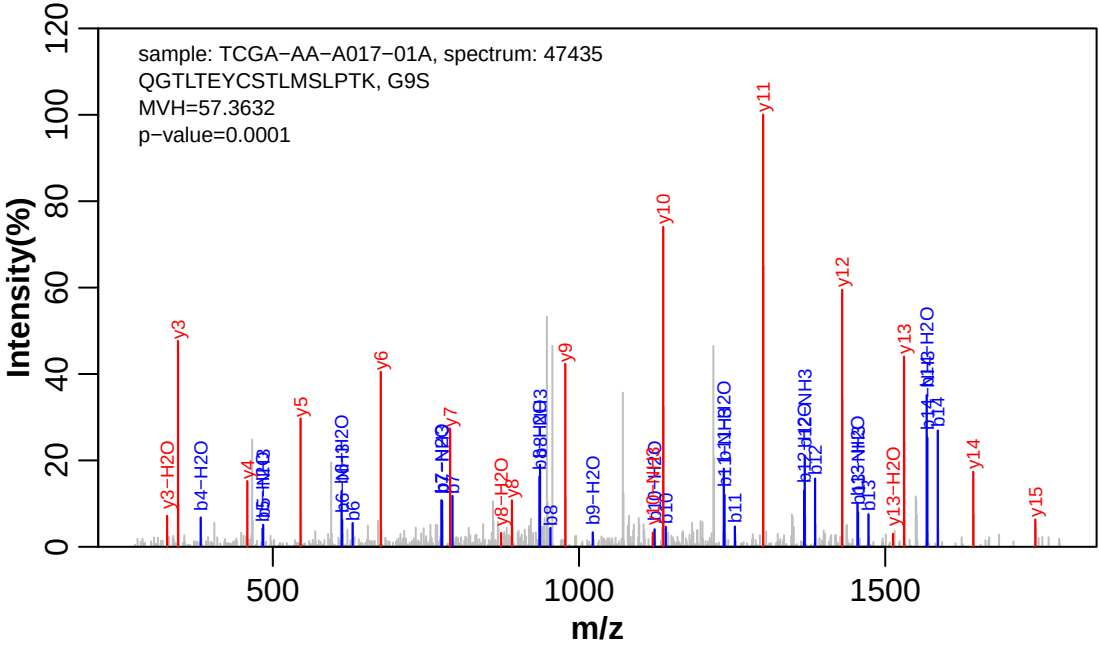

sample: TCGA−AA−A017−01A, spectrum: 7491
LQPEDMFVYDLNEK, C9Y
MVH=50.0916
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b6
y6
b7−H2O
y7
b8
y8
b9
y9
y10
y12

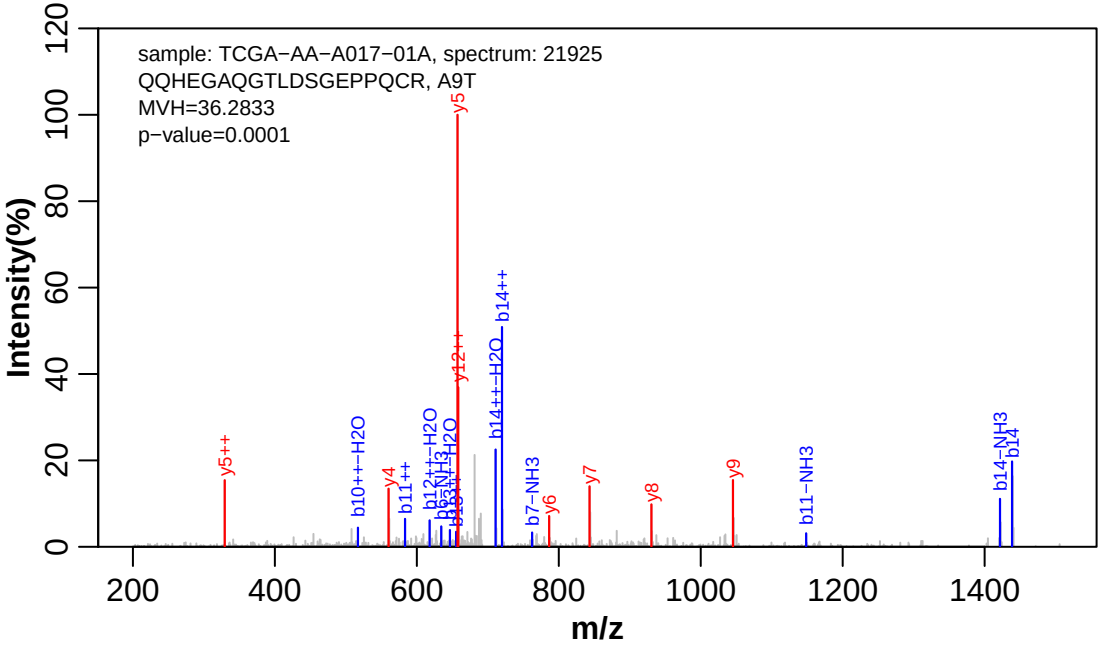

sample: TCGA−AA−A017−01A, spectrum: 143871
LVTDYTLAEADAALQK, E11D
MVH=77.2273
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y8
y7
y6
y5
y4
y3
y2−NH3
y2
b5
b6−H2O
b6
b7−NH3
b7−H2O
b7
b8
y9−NH3
y9−H2O
b9
b10−H2O
b10
y10
y11
b11
b12−H2O
b12
y12
b13
y13
b14−H2O
b14
y14
b15

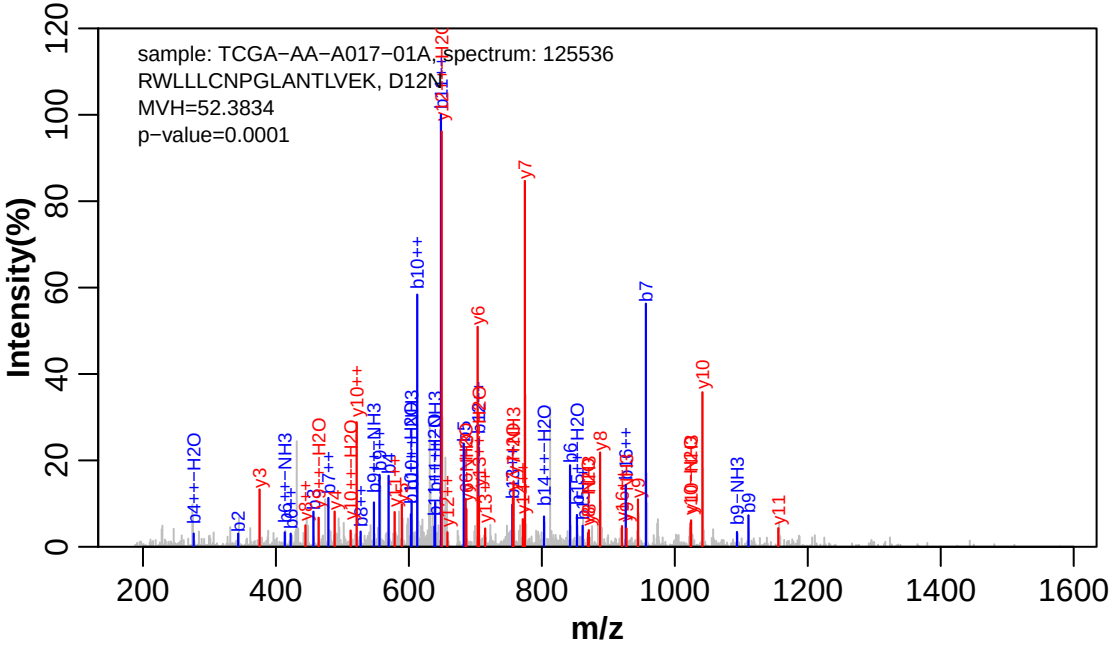

sample: TCGA−AA−A017−01A, spectrum: 57752
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=31.4436
p−value=0.0001
Intensity(%)
m/z
y7
y7++
b13++−H2O
b13++
b19++
b12−NH3
b12
b13

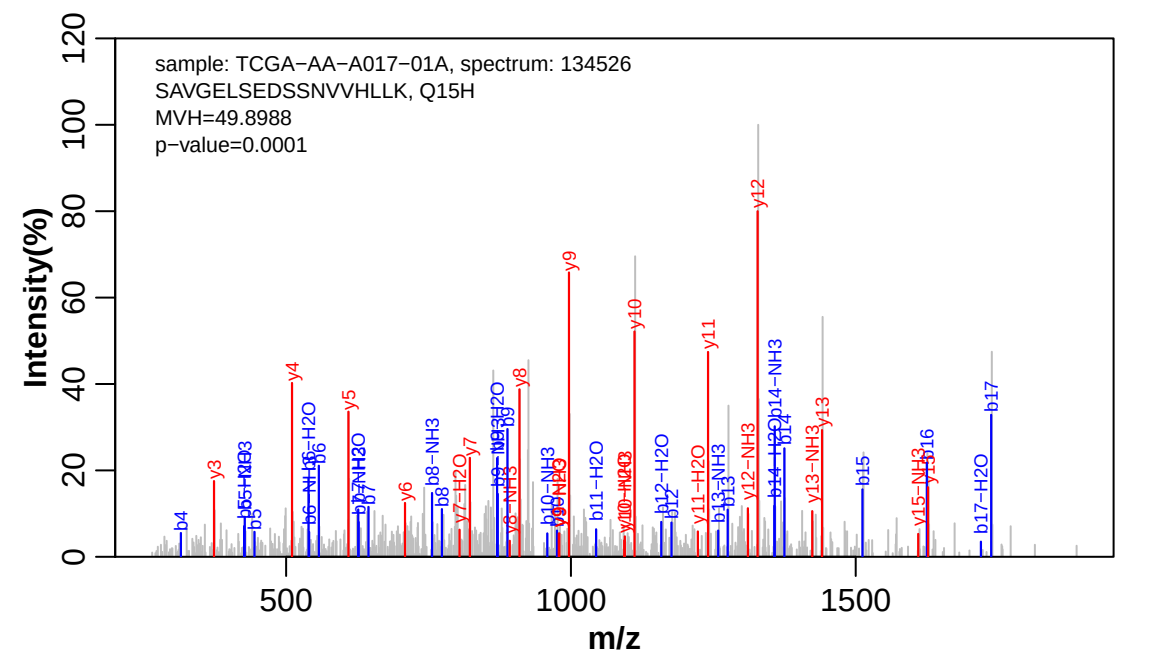

sample: TCGA−AA−A017−01A, spectrum: 27416
NPLLDLAAYDQEGR, R3L
MVH=57.0889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y3
b4−NH3
b4
y4
b5−H2O
b5
y5−NH3
y5
b6−NH3
b6
b7−NH3
b7
y6
y7−NH3
y7
b8
y8−H2O
y8
b9−NH3
b9
y9
b10
y10−NH3
y10
b11
y11
y12−NH3
y12

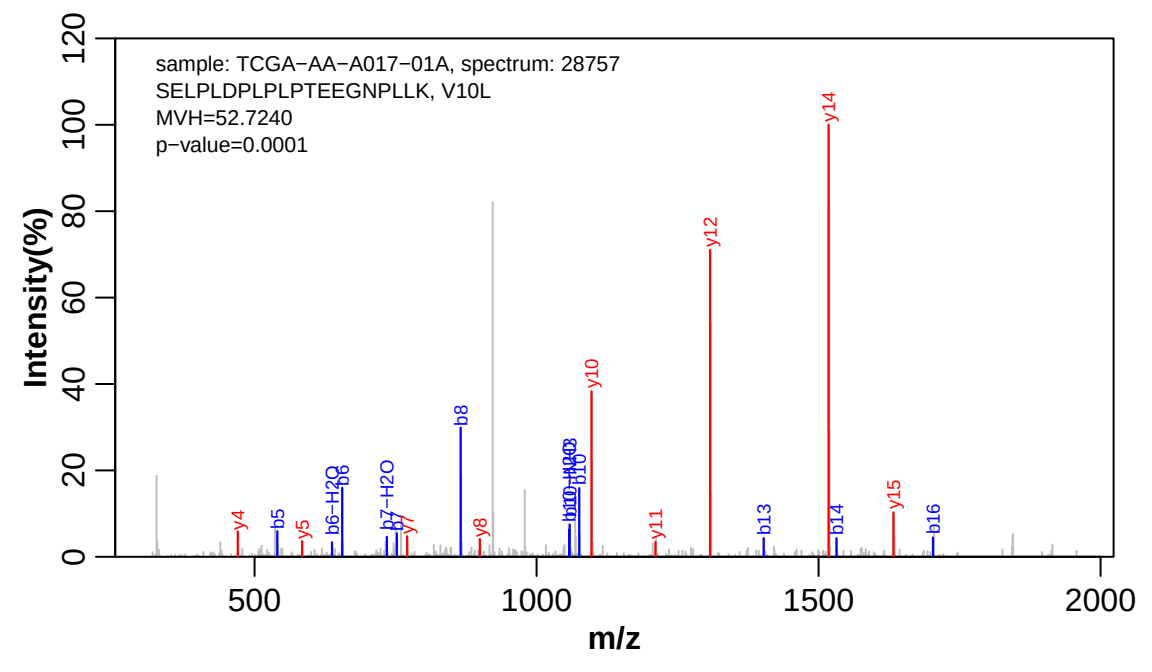

sample: TCGA−AA−A017−01A, spectrum: 45894
NTVLATWQPYSTSK, T11S
MVH=67.5131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y8
y9
b7−H2O
y10
y11
b8
b7
b7−NH3
y7
b8−H2O
y9−NH3
b3
y3
b4−NH3
b4
b5
b6
b6−H2O
y5
b9
b10
y12
y12−NH3

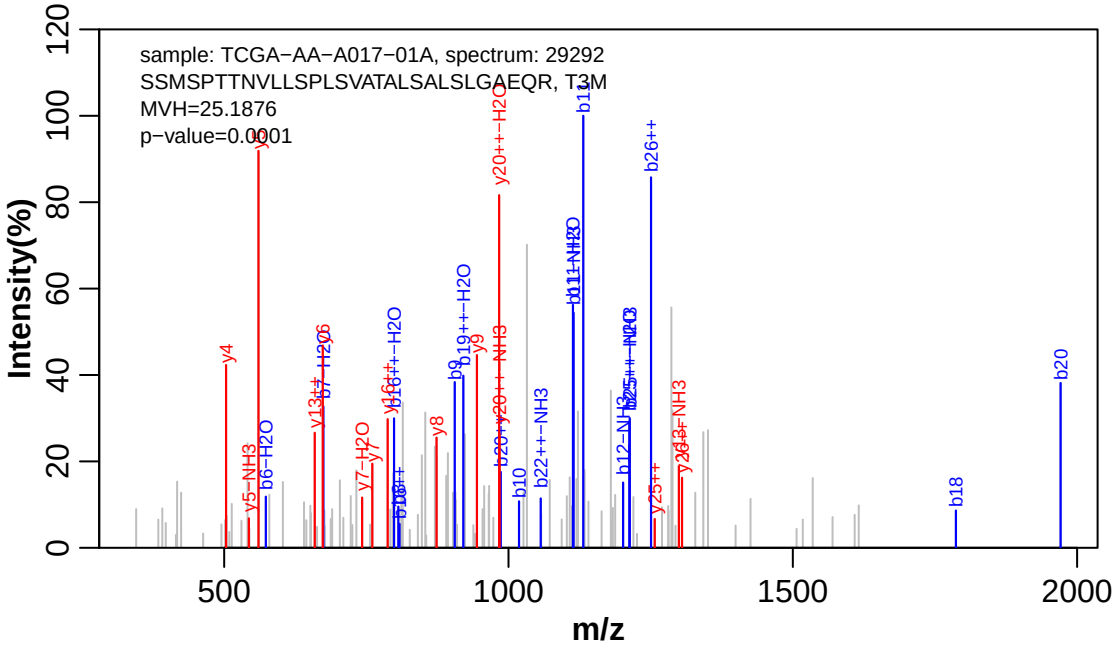

sample: TCGA−AA−A017−01A, spectrum: 47435
QGTLTEYCSTLMSLPTK, G9S
MVH=57.3632
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y3−H2O
b4−H2O
y4
y5
y6
y7
y8
y8−H2O
b8
y9
b9−H2O
y10
b11
y11
y12
y13
y13−H2O
y14
y15

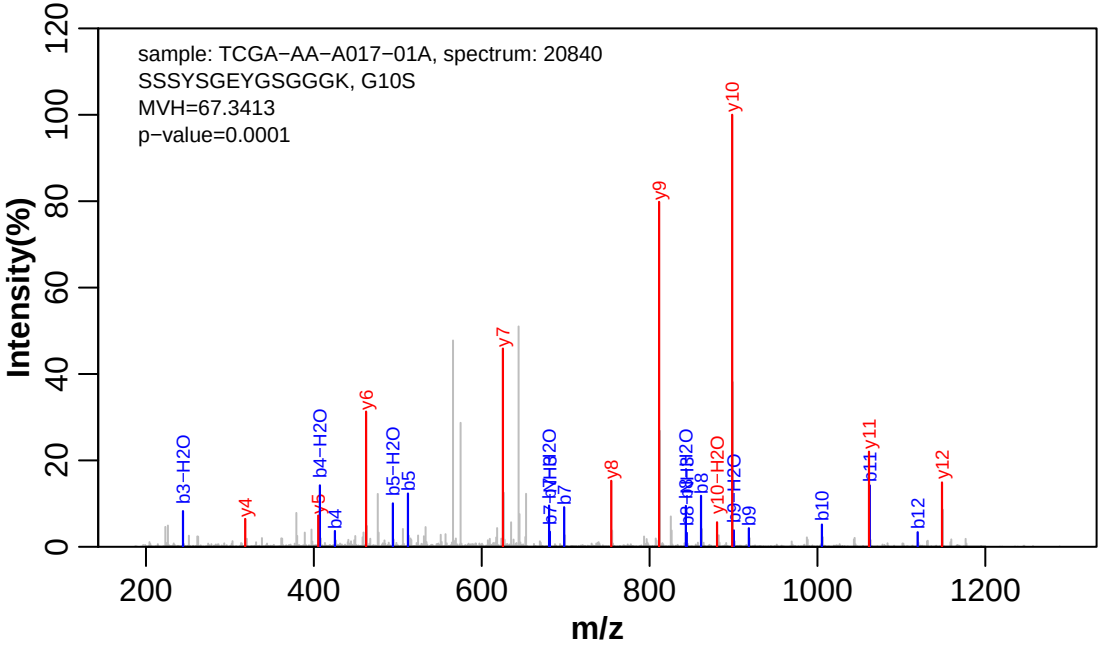

sample: TCGA−AA−A017−01A, spectrum: 21925
QQHEGAQGTLDSGEPPQCR, A9T
MVH=36.2833
p−value=0.0001
Intensity(%)
m/z
y5
y5++
y4
b10++−H2O
b11++
b12++−H2O
b12++−NH3
b13++−H2O
y12++
b14++−H2O
b14++
b7−NH3
y6
y7
y8
y9
b11−NH3
b14−NH3
b14

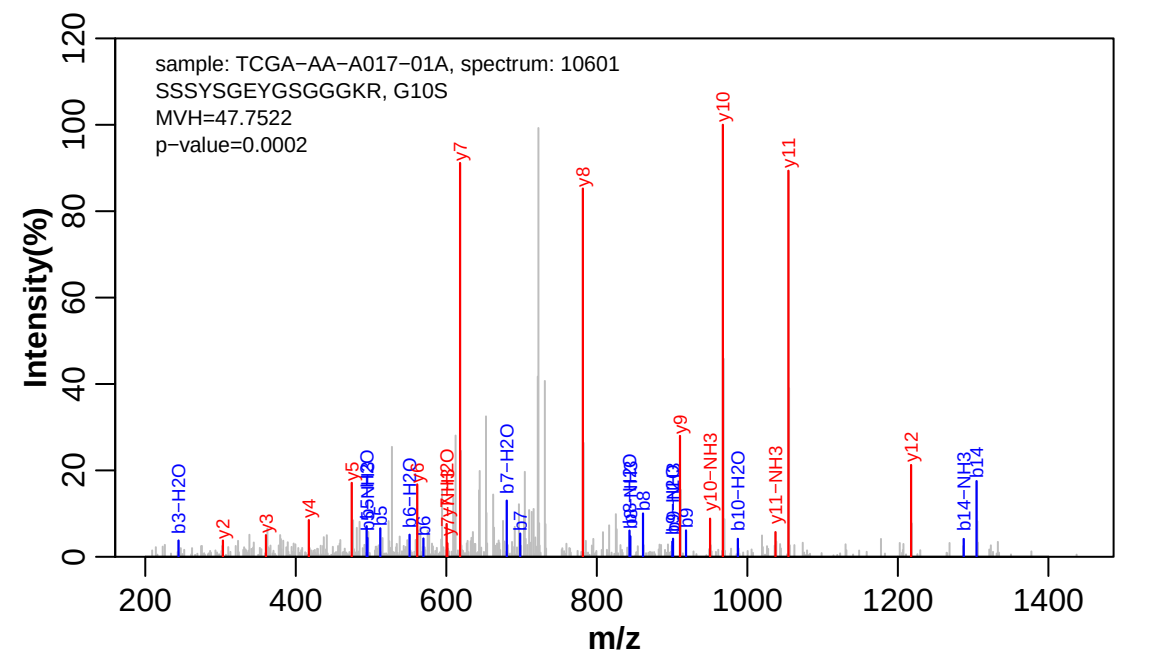

sample: TCGA−AA−A017−01A, spectrum: 125536
RWLLLCNPGLANTLVEK, D12N
MVH=52.3834
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4++−H2O
b2
y3
b6++−NH3
y8++
y7++−H2O
y4
y10++−H2O
y10++
b8+
b9++−NH3
b10++
y12++
y11++−H2O
y7
y6
b7
y10
b9−NH3
b9
y11

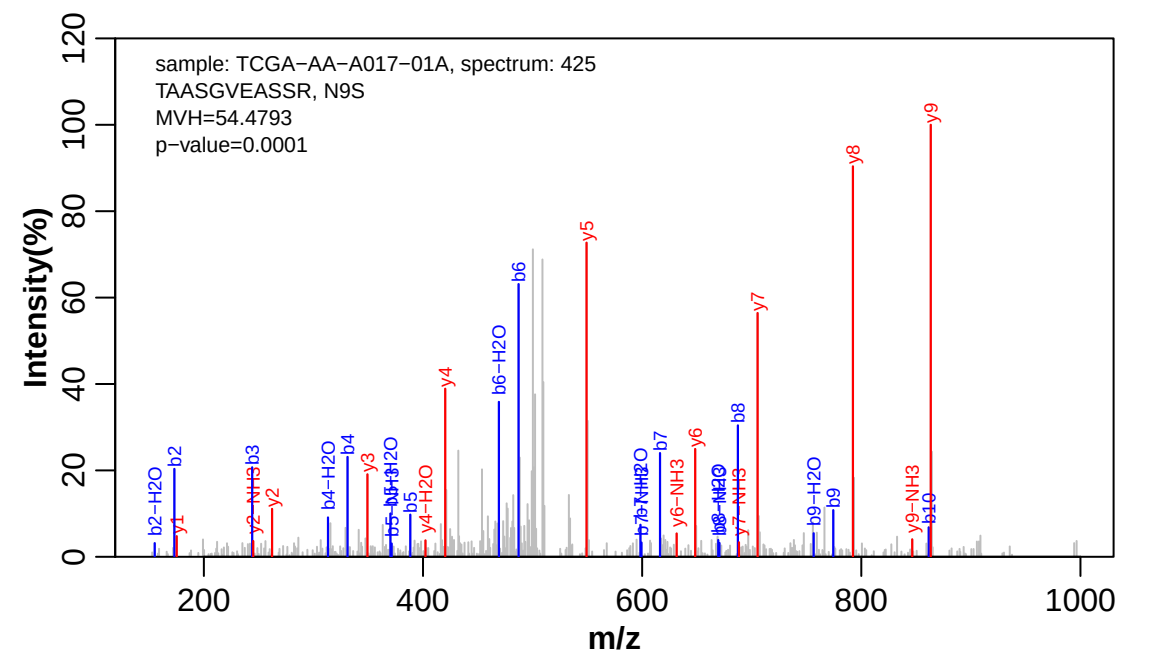

sample: TCGA−AA−A017−01A, spectrum: 134526
SAVGELSEDSSNVVHLLK, Q15H
MVH=49.8988
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y3
y4
b6−NH3
b6−H2O
b6
y5
b7−NH3
b7−H2O
b7
y6
b8
b8−NH3
y7
y7−H2O
b9
y8
y8−NH3
y9
b10−NH3
b10
b11−H2O
y10
b12−H2O
b12
y11
y11−H2O
b13−NH3
b13
y12
y12−NH3
b14−NH3
b14
y13
y13−NH3
b15
y15−NH3
y15
b16
b17
b17−H2O

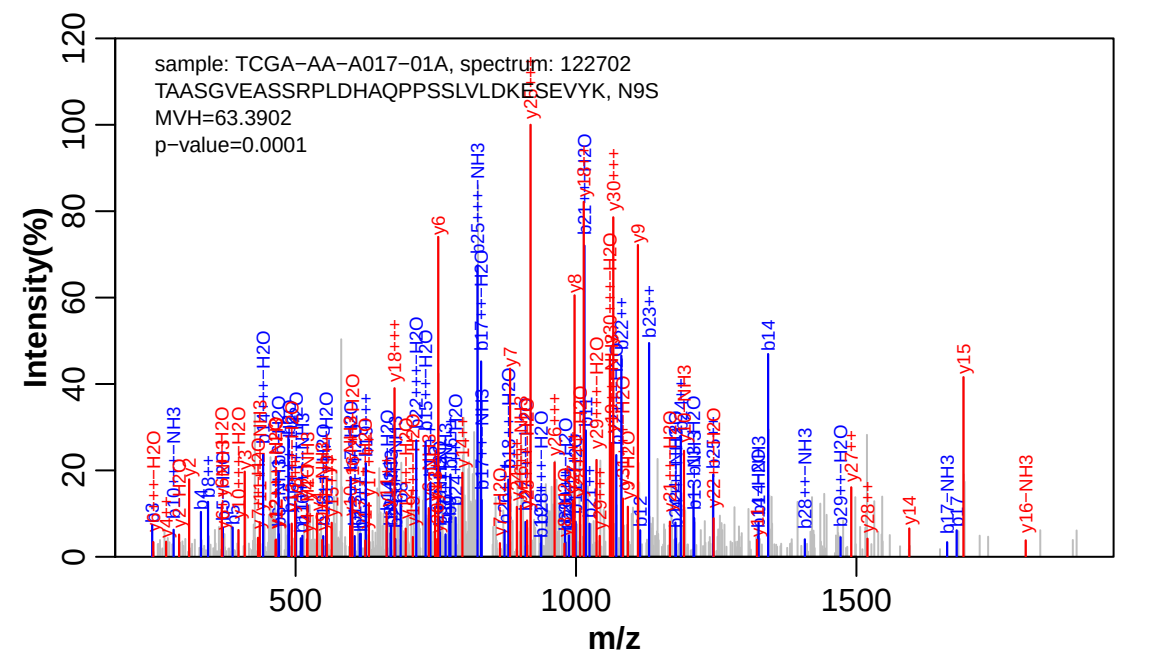

sample: TCGA−AA−A017−01A, spectrum: 28757
SELPLDPLPLPTEEGNPLLK, V10L
MVH=52.7240
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5
y5
b6−H2O
b6
b7−H2O
b7
y7
b8
y8
b10−H2O
b10−NH3
b10
y10
y11
y12
b13
y14
b14
y15
b16

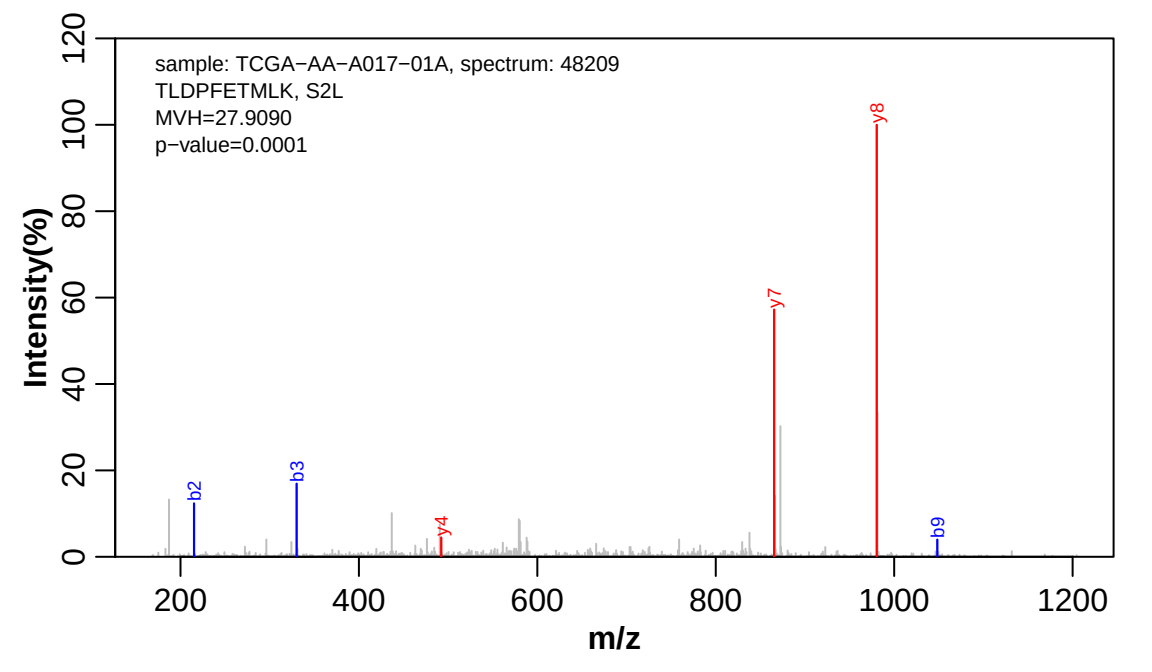

sample: TCGA−AA−A017−01A, spectrum: 29292
SSMSPTTNVLLSPLSVATALSALSLGAEQR, T3M
MVH=25.1876
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5−NH3
b6−H2O
y7−H2O
y7
y8
b9
b19++−H2O
y9
b20++−NH3
y20++−H2O
b10
b22++−NH3
b11
b11−NH3
b12−NH3
y25++
b26++
y13++
b18
b20

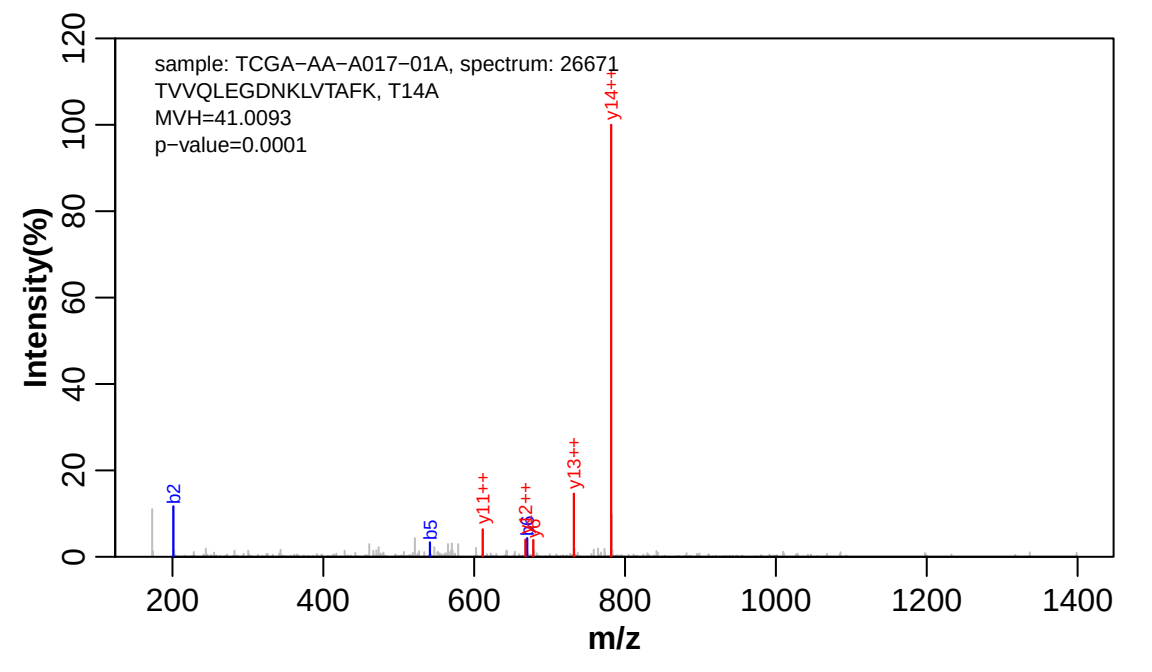

sample: TCGA−AA−A017−01A, spectrum: 20840
SSSYSGEYGSGGGK, G10S
MVH=67.3413
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y10
y9
y7
y6
y8
y12
y11
b3−H2O
y4
b4−H2O
y5
b4
b5−H2O
b5
b7
b8
y10−H2O
b9
b10
b11
b12

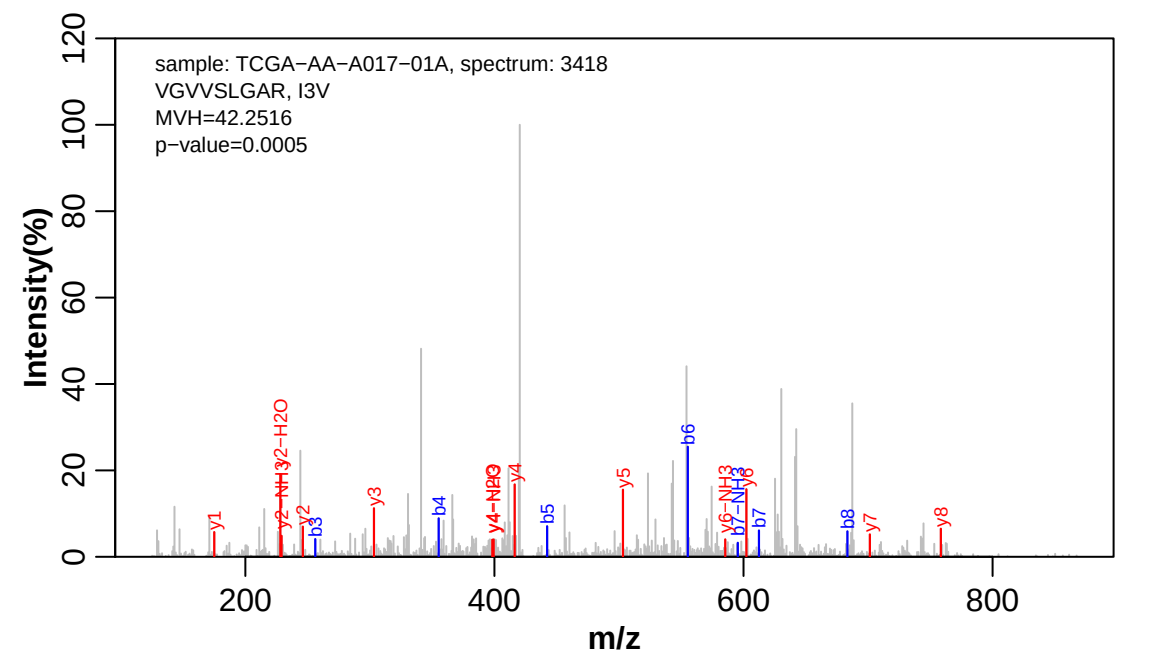

sample: TCGA−AA−A017−01A, spectrum: 10601
SSSYSGEYGSGGGKR, G10S
MVH=47.7522
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y8
y10
y11
y12
y9
b7−H2O
b3−H2O
y2
y3
y4
y5
b5
b6−H2O
b6
b7
b8
b9
y10−NH3
b10−H2O
y11−NH3
b14−NH3
b14

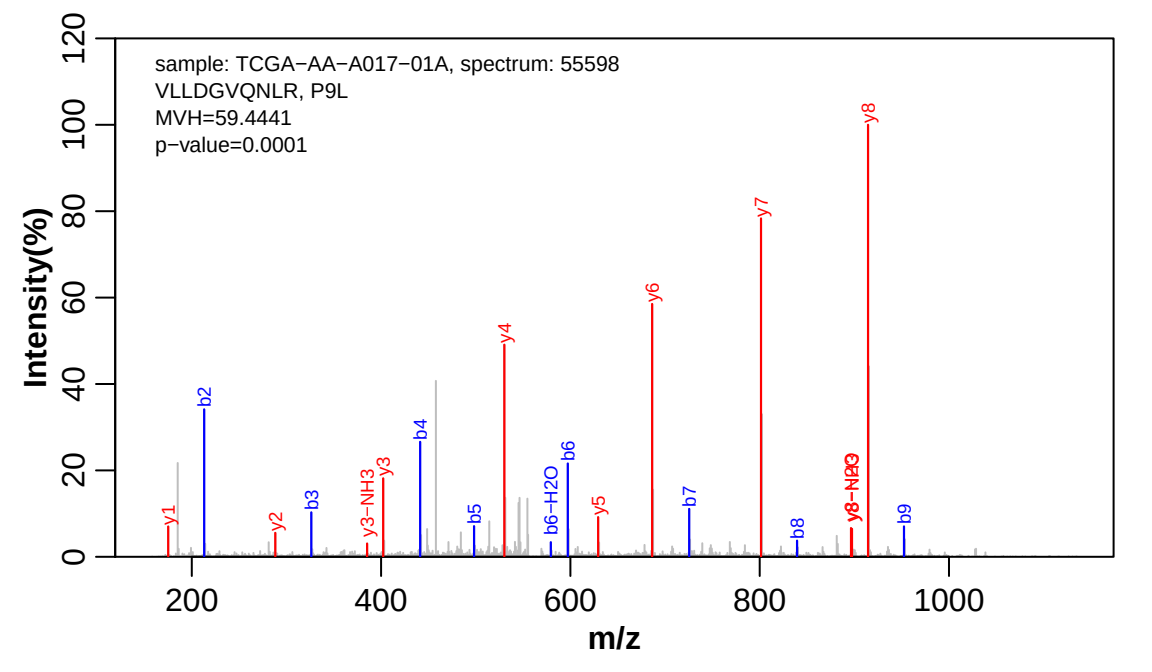

sample: TCGA−AA−A017−01A, spectrum: 425
TAASGVEASSR, N9S
MVH=54.4793
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−H2O
b2
y1
y2−NH3
b3
y2
b4−H2O
b4
y3
b5−NH3
b5−H2O
b5
y4−H2O
y4
b6−H2O
b6
y5
b7−NH3
b7−H2O
b7
y6−NH3
y6
b8
y7−NH3
y7
b9−H2O
b9
y9−NH3
b10
y8
y9

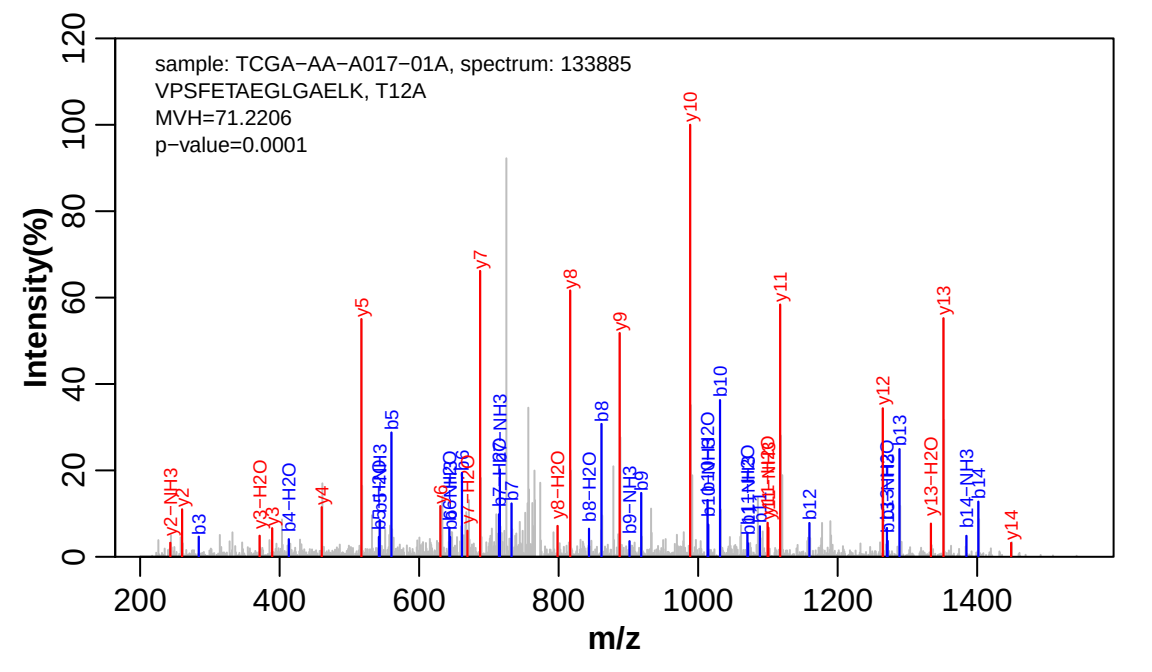

sample: TCGA−AA−A017−01A, spectrum: 122702
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=63.3902
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

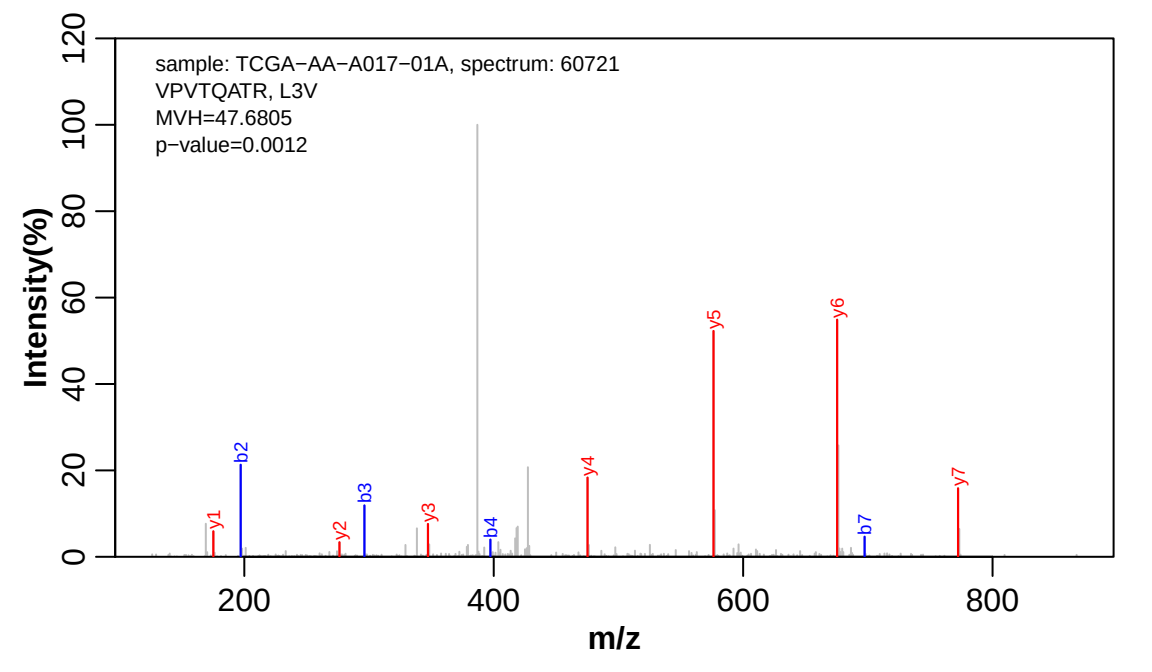

sample: TCGA−AA−A017−01A, spectrum: 48209
TLDPFETMLK, S2L
MVH=27.9090
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y7
y8
b9

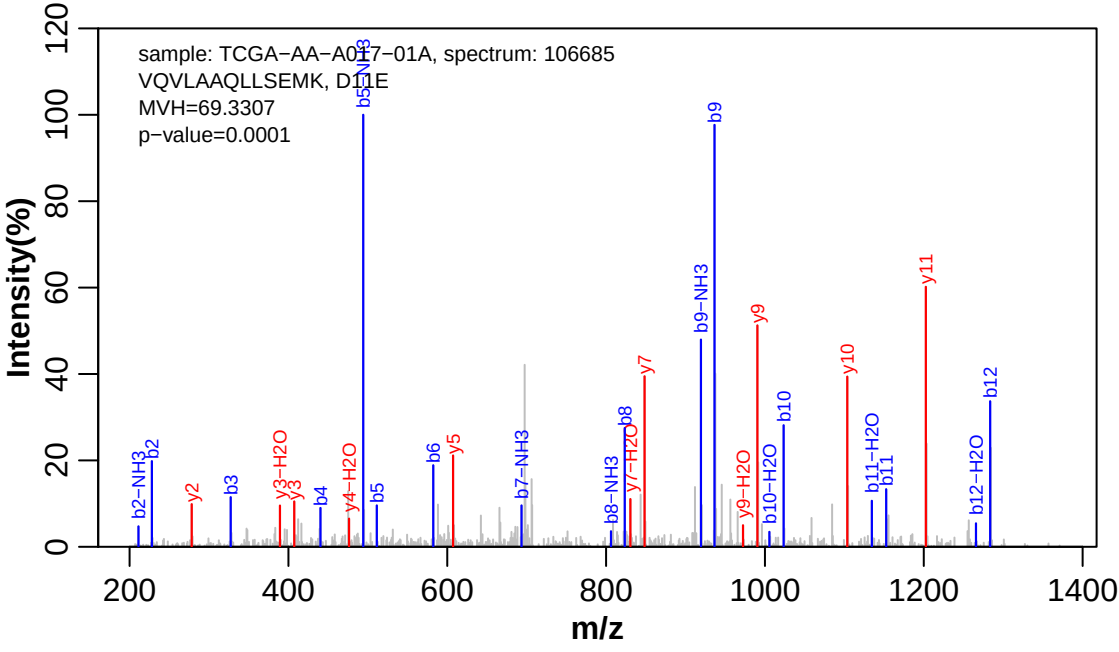

sample: TCGA−AA−A017−01A, spectrum: 26671
TVVQLEGDNKLVTAFK, T14A
MVH=41.0093
p−value=0.0001
Intensity(%)
m/z
b2
b5
y11++
y8
y12++
y13++
y14++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

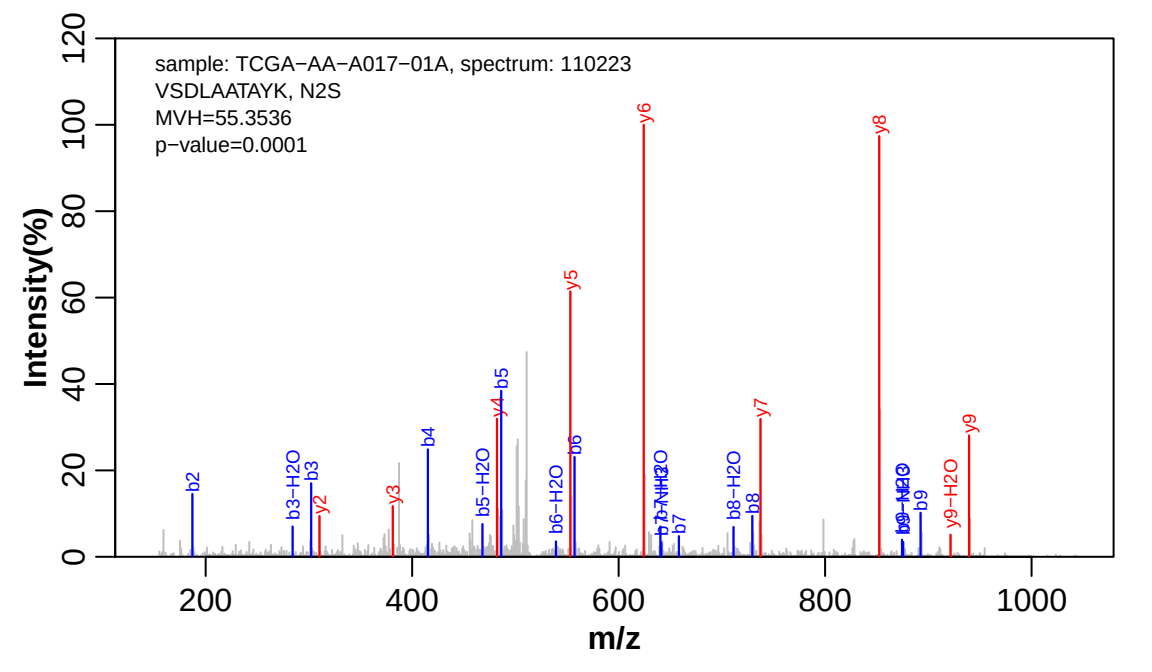

sample: TCGA−AA−A017−01A, spectrum: 3418
VGVVSLGAR, I3V
MVH=42.2516
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2−NH3
y2−H2O
y2
b3
y3
b4
y4−NH3
y4−H2O
y4
b5
y5
b6
y6−NH3
b7−NH3
y6
b7
y7
b8
y8

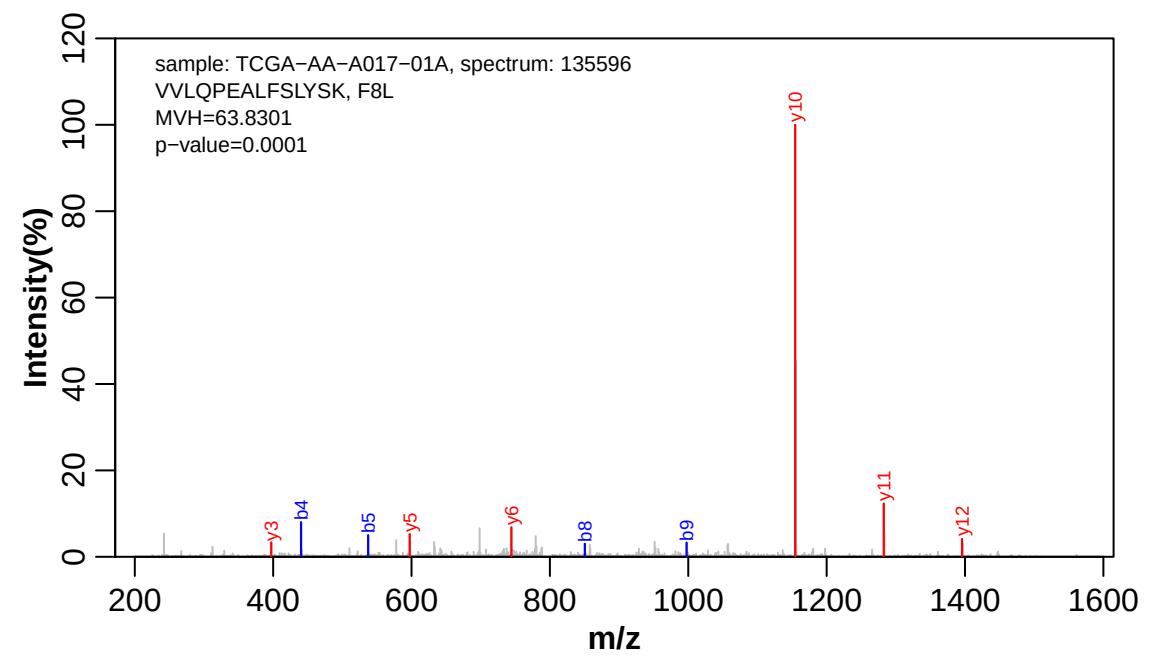

sample: TCGA−AA−A017−01A, spectrum: 55598
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8−NH3
y8
b9

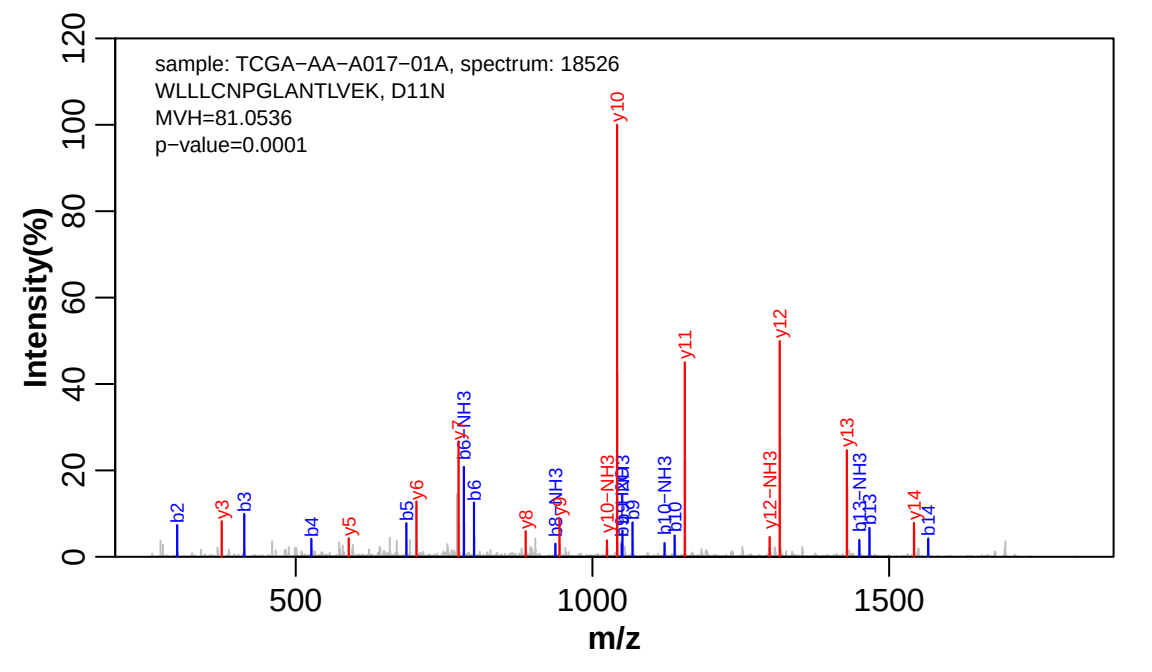

sample: TCGA−AA−A017−01A, spectrum: 133885
VPSFETAEGLGAELK, T12A
MVH=71.2206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y5
y7
y8
y9
y11
y13
y12
y14
b5
b8
b10
b12
b13
b14
y2−NH3
y2
b3
y3−H2O
y3
b4−H2O
y4
b7−H2O
b7
b7−NH3
y8−H2O
b8−H2O
b9−NH3
b9
y13−H2O
b14−NH3

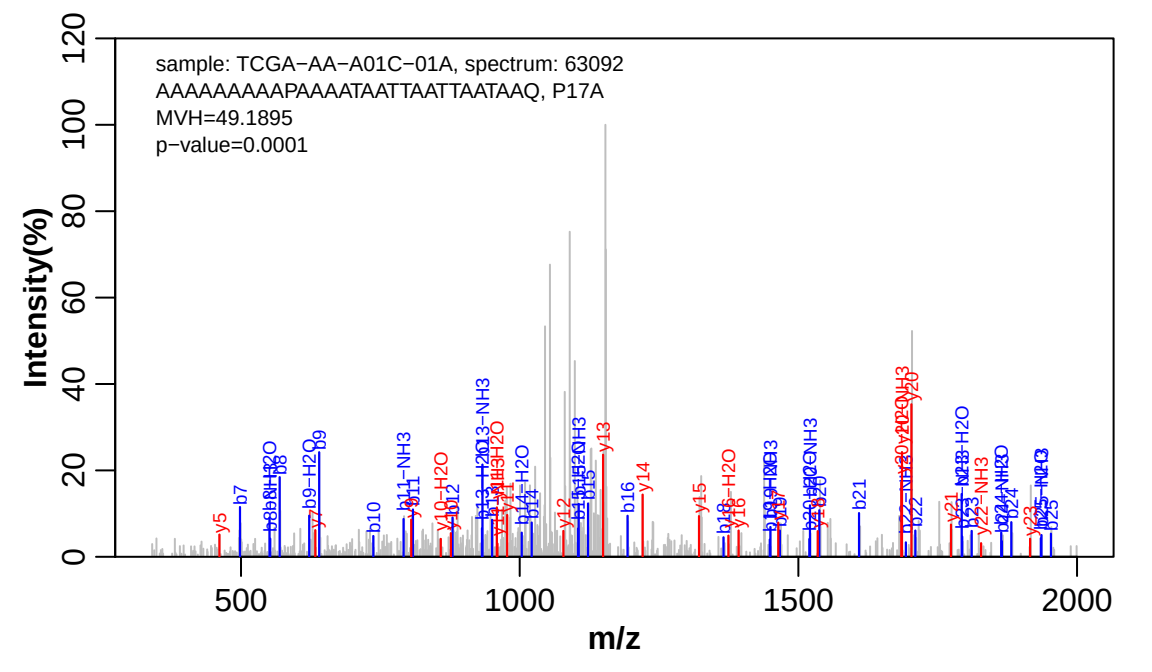

sample: TCGA−AA−A017−01A, spectrum: 60721
VPVTQATR, L3V
MVH=47.6805
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
y5
y6
b7
y7

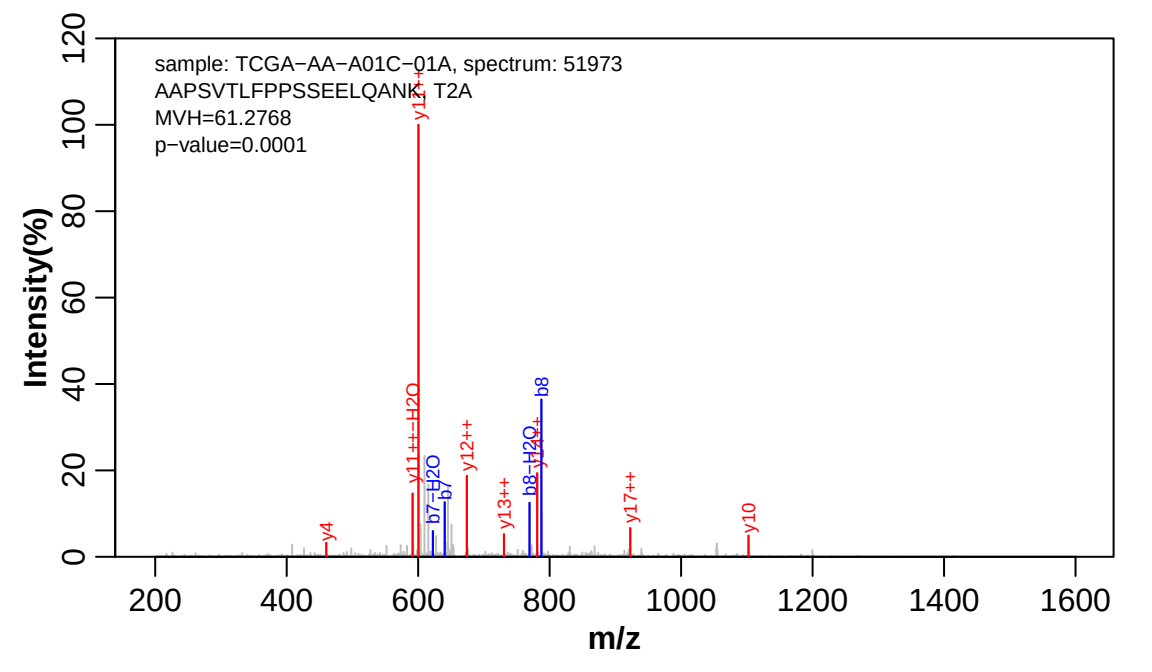

sample: TCGA−AA−A017−01A, spectrum: 106685
VQVLAAQLLSEMK, D11E
MVH=69.3307
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5−NH3
b5
b6
y5
b7−NH3
b8−NH3
y7−H2O
b8
y7
b9−NH3
b9
y9−H2O
y9
b10−H2O
b10
y10
b11−H2O
b11
y11
b12−H2O
b12

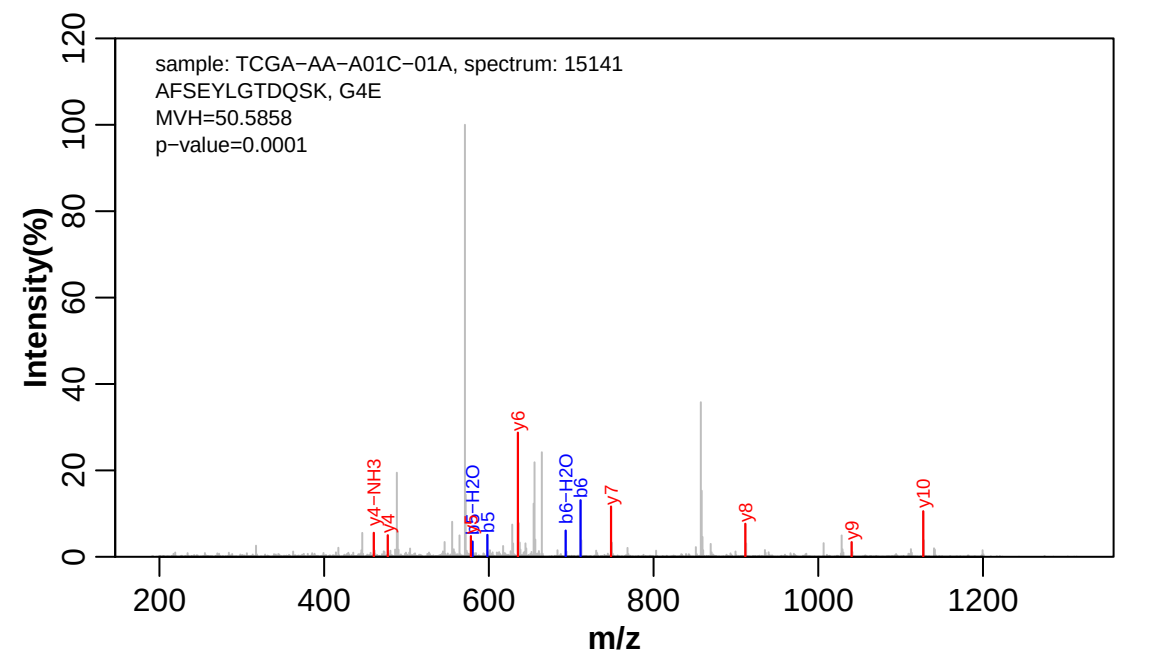

sample: TCGA−AA−A017−01A, spectrum: 110223
VSDLAATAYK, N2S
MVH=55.3536
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−H2O
y4
b5
b6−H2O
y5
b6
b7
b8−H2O
b8
y7
y6
y8
b9
y9−H2O
y9

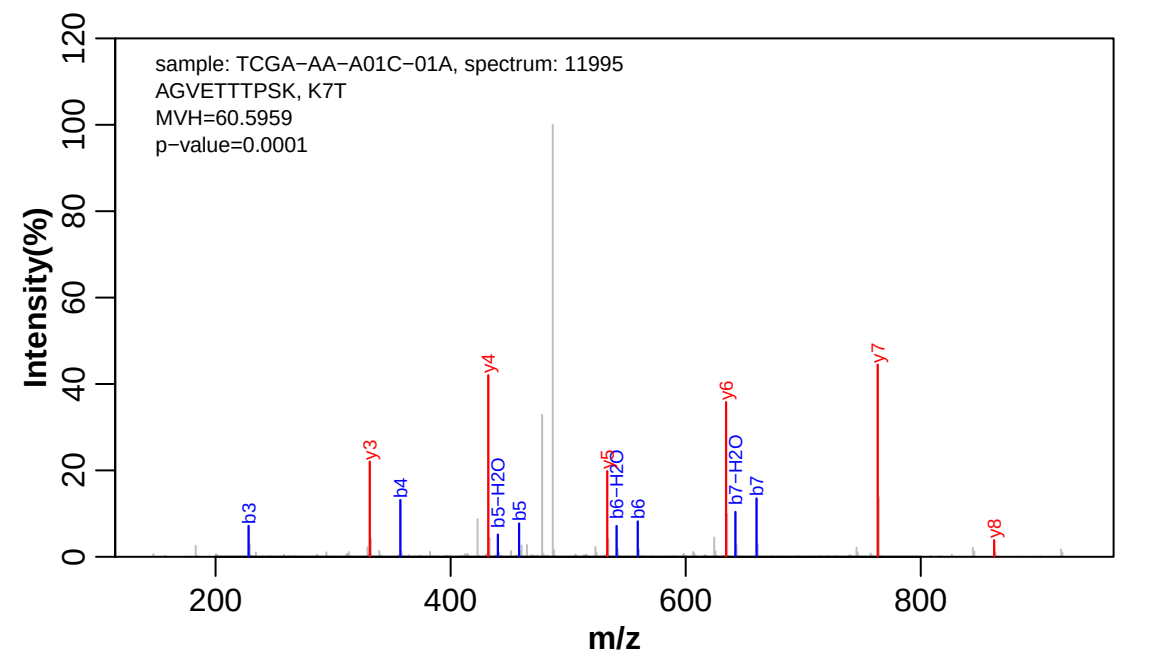

sample: TCGA−AA−A017−01A, spectrum: 135596
VVLQPEALFSLYSK, F8L
MVH=63.8301
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
b5
y5
y6
b8
b9
y10
y11
y12

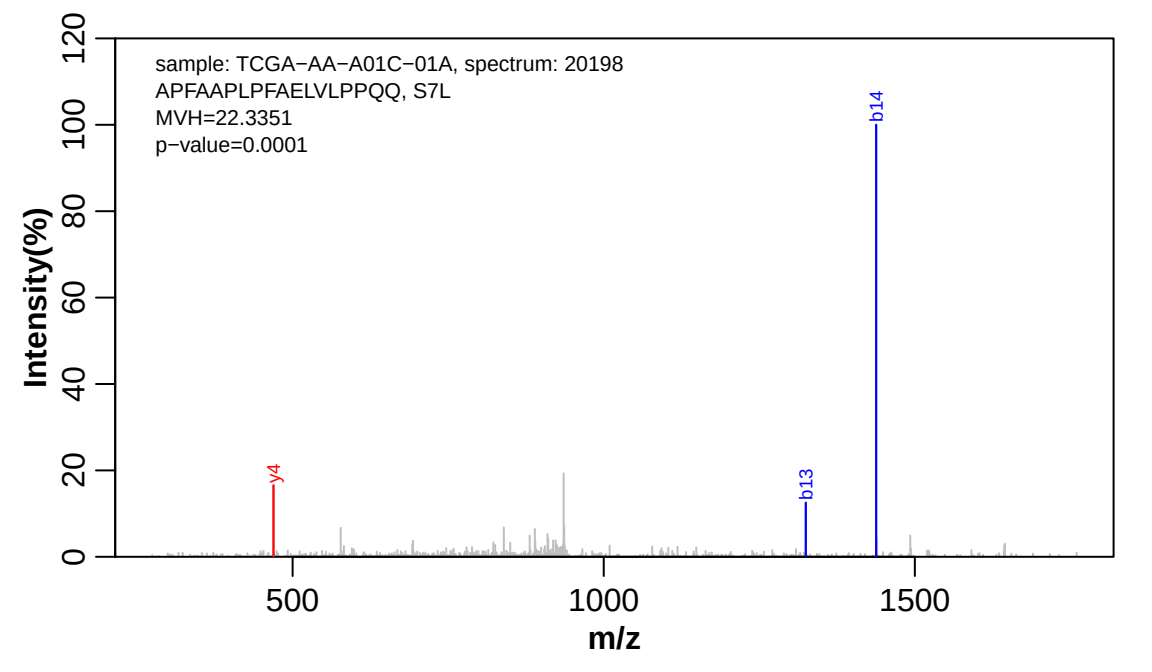

sample: TCGA−AA−A017−01A, spectrum: 18526
WLLLCNPGLANTLVEK, D11N
MVH=81.0536
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
b4
y5
b5
y6
b6
y7
b6−NH3
y8
b8−NH3
y10−NH3
y10
b10−NH3
b10
y11
y12
y12−NH3
y13
b13−NH3
b13
y14
b14

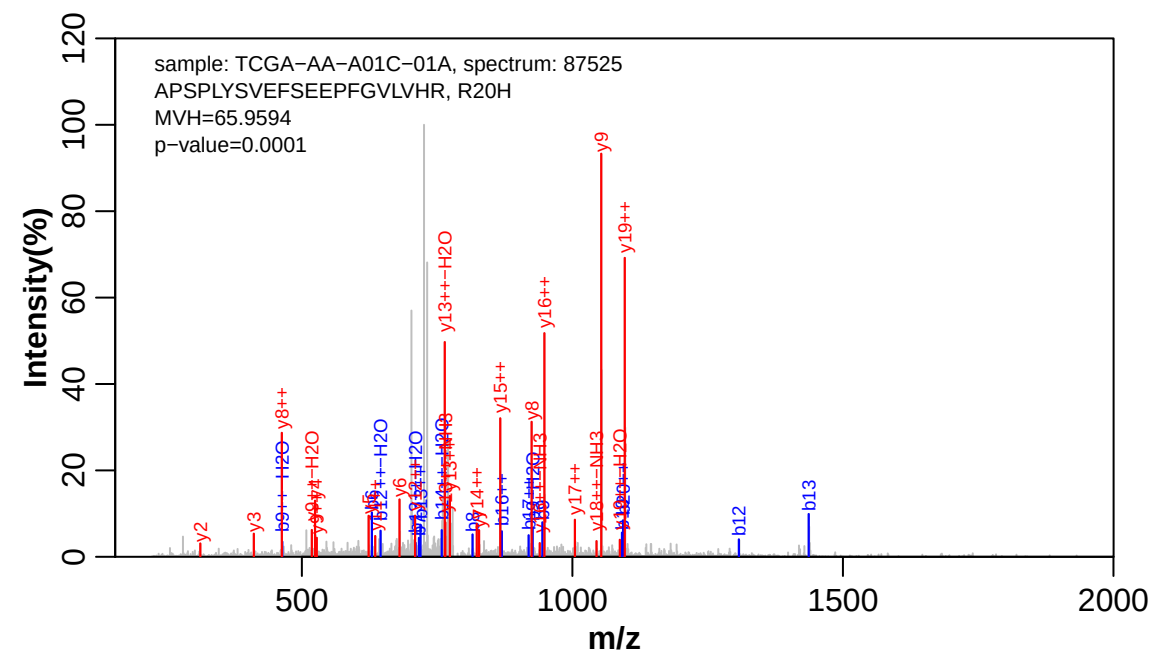

sample: TCGA−AA−A01C−01A, spectrum: 63092
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=49.1895
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
b7
b9−H2O
b9
b10
b11−NH3
y10−H2O
b14−H2O
y12
y13
b16
y14
y15
b16−H2O
y16
b21
y20
y22−NH3
y23

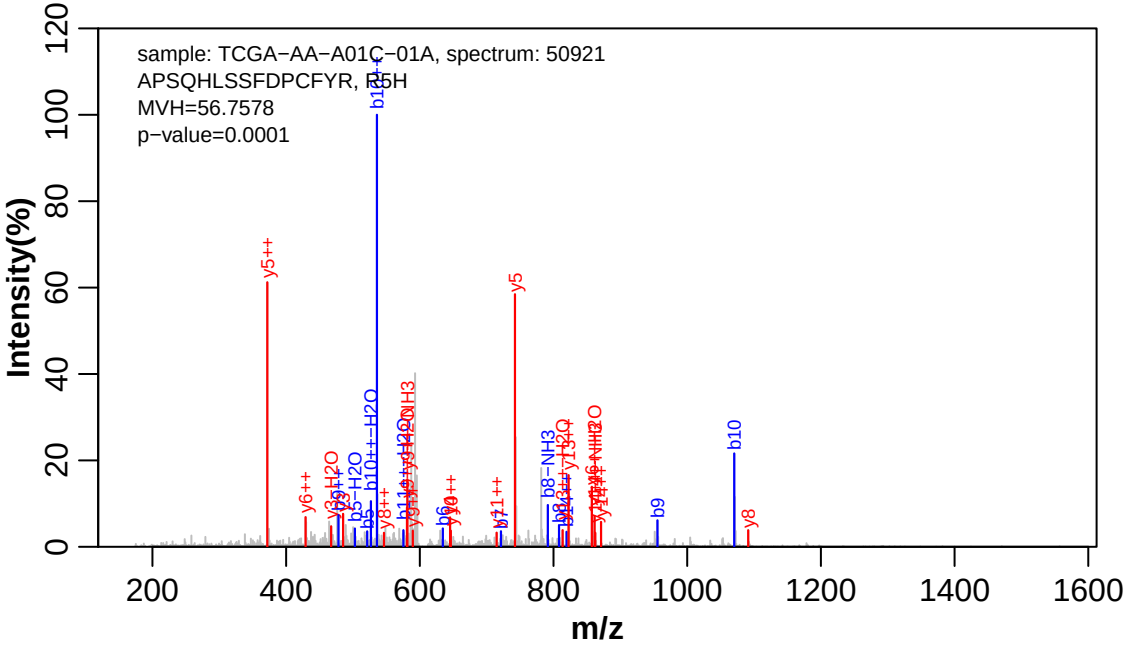

sample: TCGA−AA−A01C−01A, spectrum: 51973
AAPSVTLFPPSSEELQANK, T2A
MVH=61.2768
p−value=0.0001
Intensity(%)
m/z
y4
y11++−H2O
b7−H2O
b7
y12++
y13++
b8−H2O
y14++
b8
y17++
y10

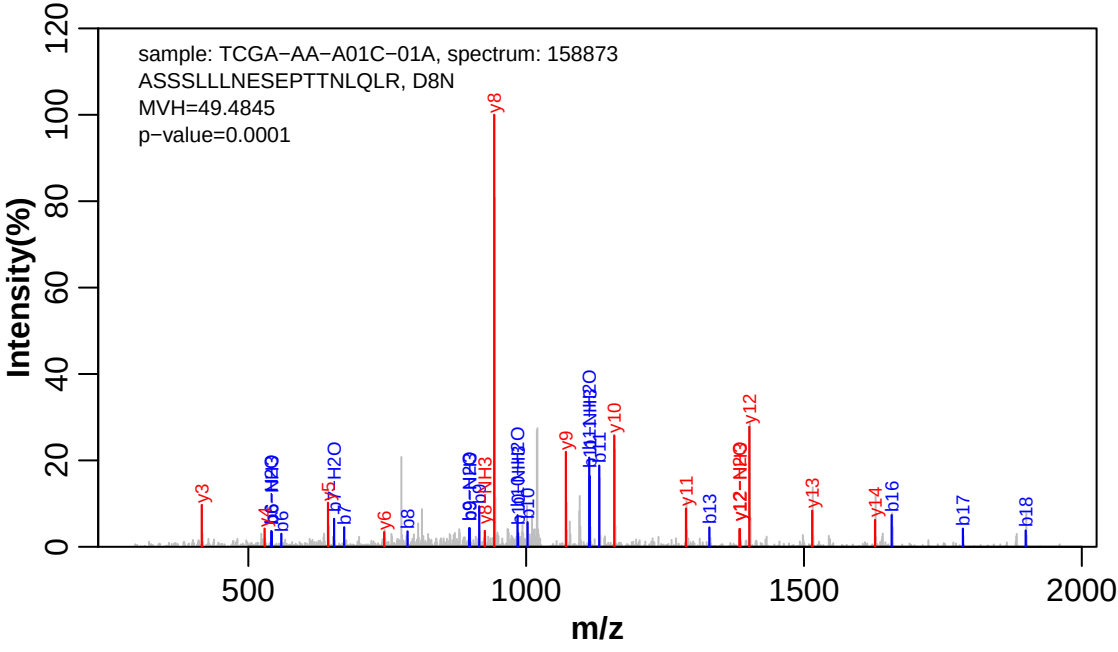

sample: TCGA−AA−A01C−01A, spectrum: 15141
AFSEYLGTDQSK, G4E
MVH=50.5858
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y4−NH3
y4
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9
y10

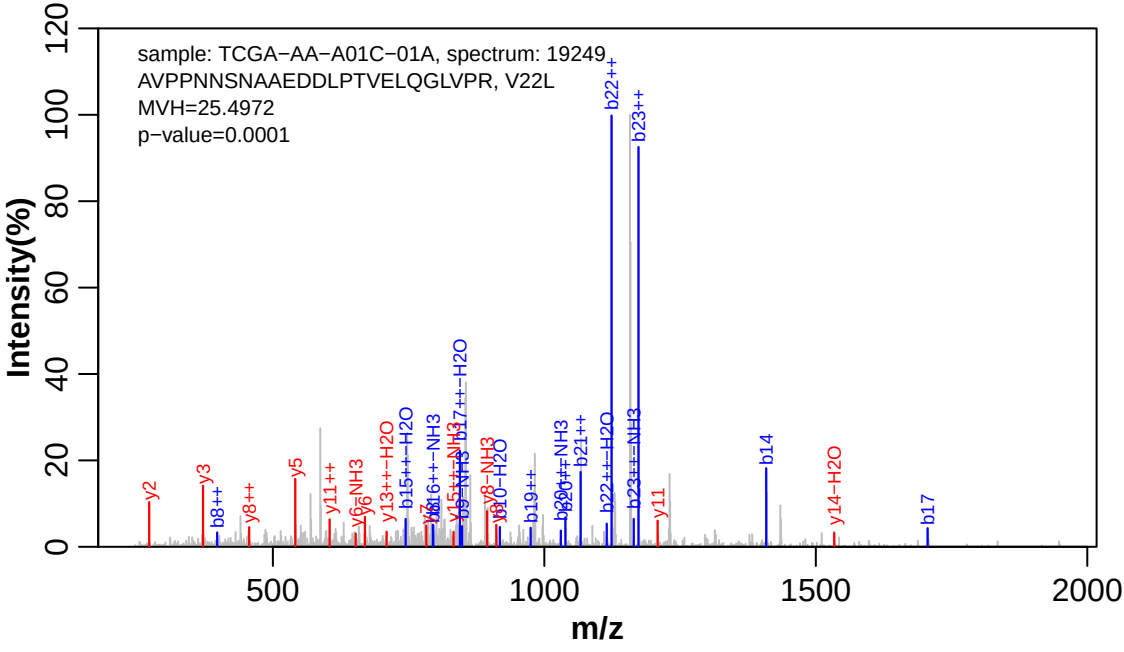

sample: TCGA−AA−A01C−01A, spectrum: 11995
AGVETTTPSK, K7T
MVH=60.5959
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

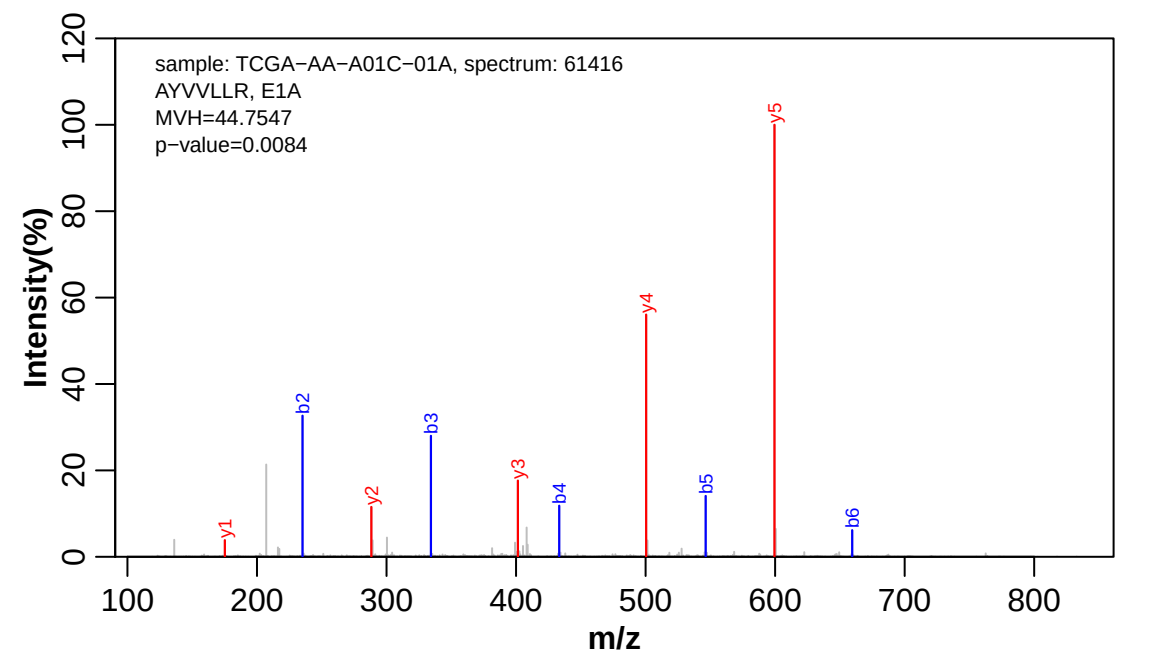

sample: TCGA−AA−A01C−01A, spectrum: 20198
APFAAPLPFAELVLPPQQ, S7L
MVH=22.3351
p−value=0.0001
b14
b13
y4
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

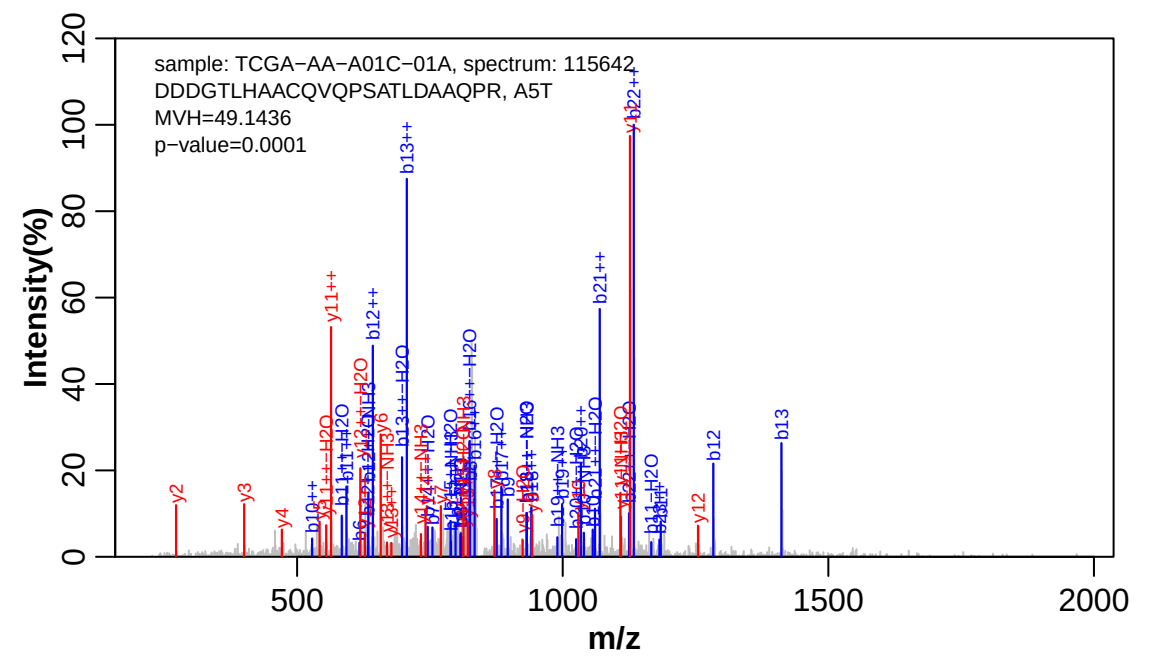

sample: TCGA−AA−A01C−01A, spectrum: 87525
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=65.9594
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
b9++−H2O
y8++
y9++−H2O
y6
y13++−H2O
y13++
y9
y19++
y13++−H2O
y16++
y15++
y8
y17++
y18++−NH3
b12
b13

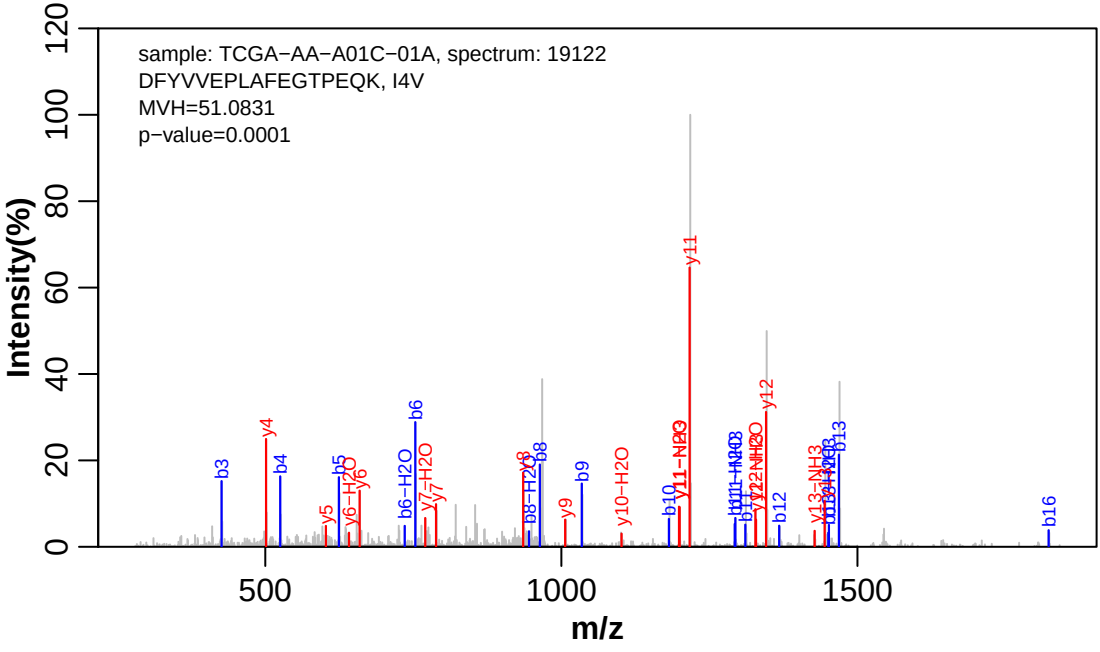

sample: TCGA−AA−A01C−01A, spectrum: 50921
APSQHLSSFDPCFYR, 5H
MVH=56.7578
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++
y5++
y5
y6++
b10
b9
y8
b8−NH3
b5−H2O
b10++−H2O

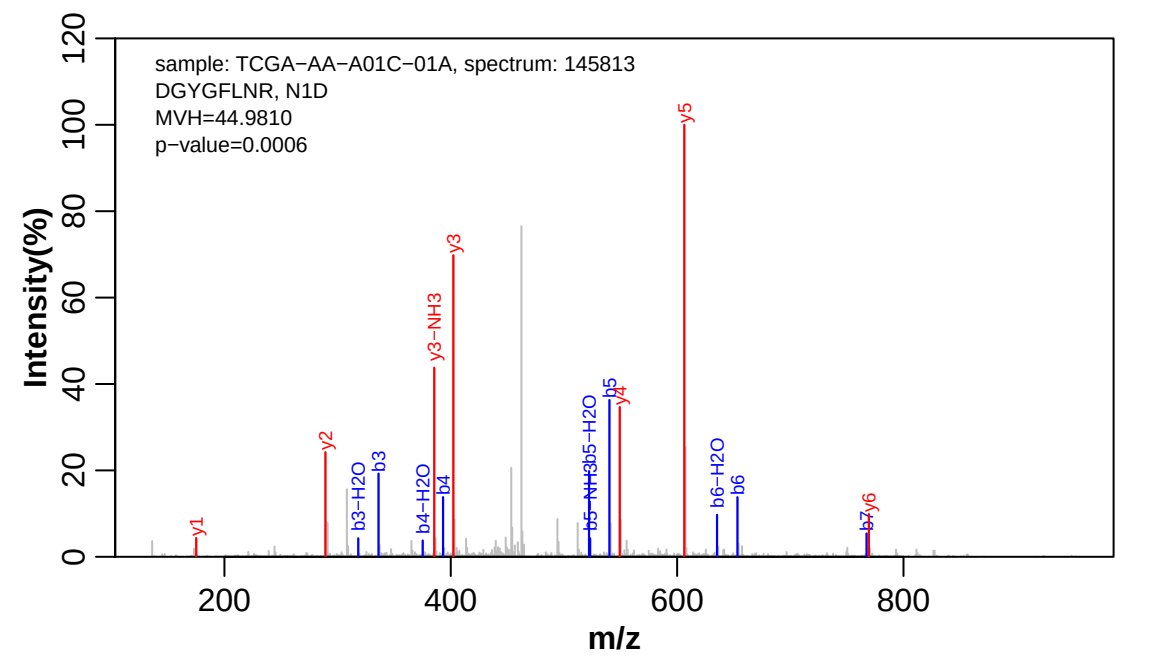

sample: TCGA−AA−A01C−01A, spectrum: 158873
ASSSLLLNESEPTTNLQLR, D8N
MVH=49.4845
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y5−H2O
y6
y9
y10
y11
y12
y13
y14
b13
b16
b17
b18

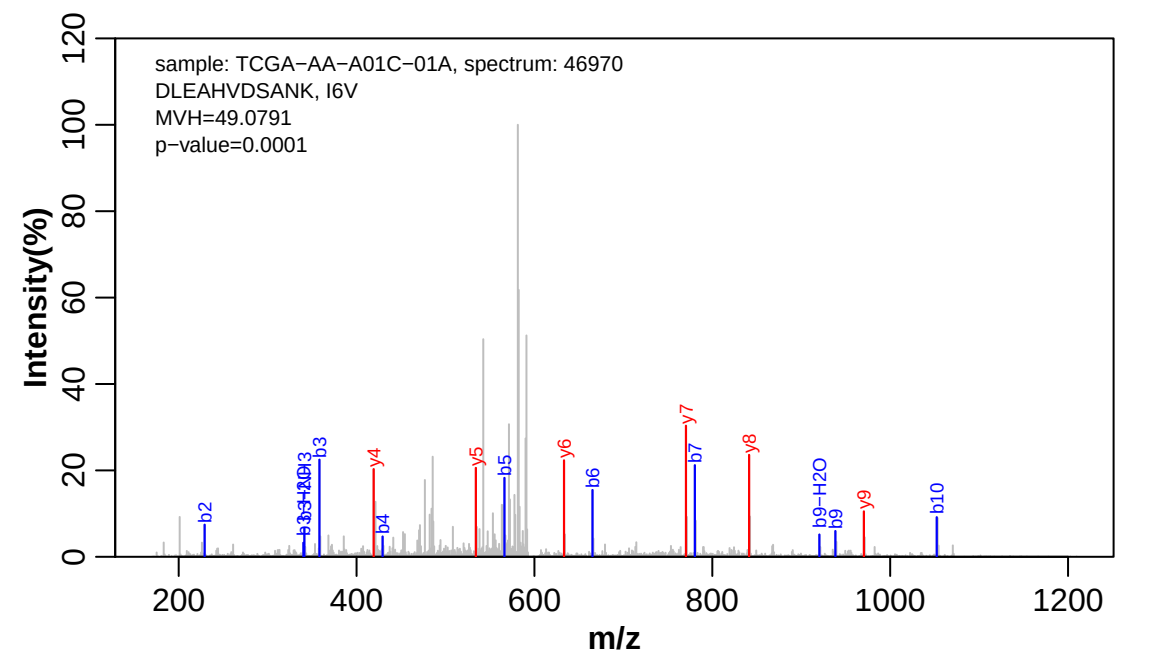

sample: TCGA−AA−A01C−01A, spectrum: 19249
AVPPNNSNAAEDDLPTVELQGLVPR, V22L
MVH=25.4972
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y2
y3
b8++
y8++
y5
y11++
y6−NH3
y6
y13++−H2O
b15++−H2O
b16++−NH3
b17++−NH3
y15++−NH3
b17++−H2O
y8−NH3
y10−H2O
b19++
b20++−NH3
b20++
b21++
b22++−H2O
b22++
b23++
b23++−NH3
y11
b14
y14−H2O
b17

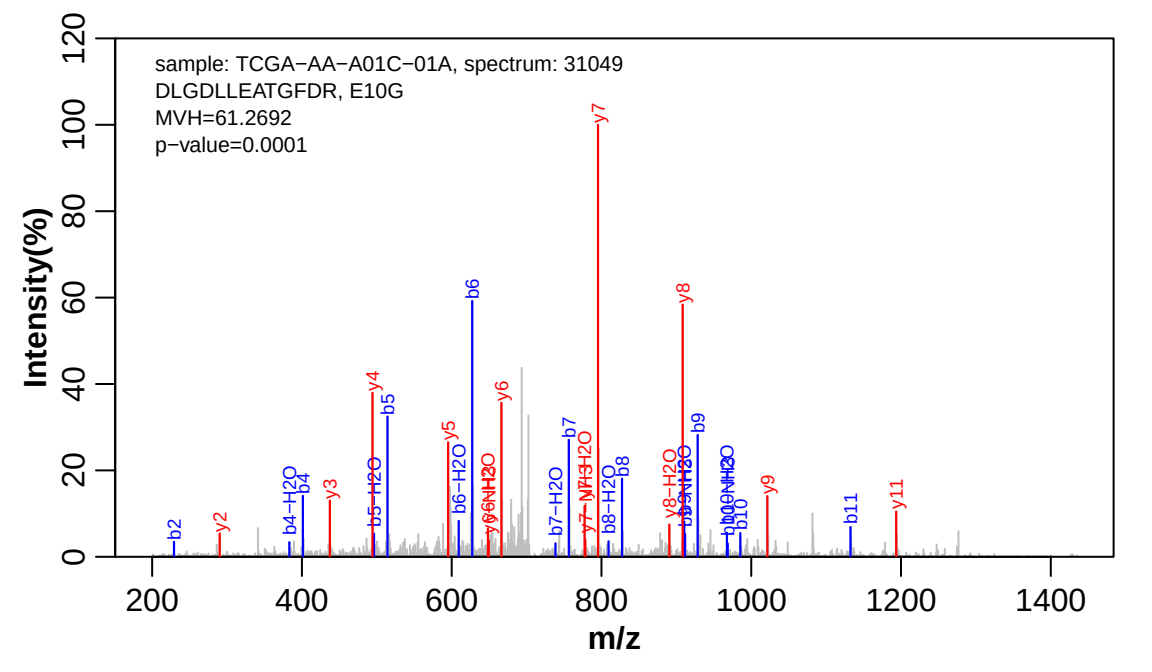

sample: TCGA−AA−A01C−01A, spectrum: 61416
AYVVLLR, E1A
MVH=44.7547
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

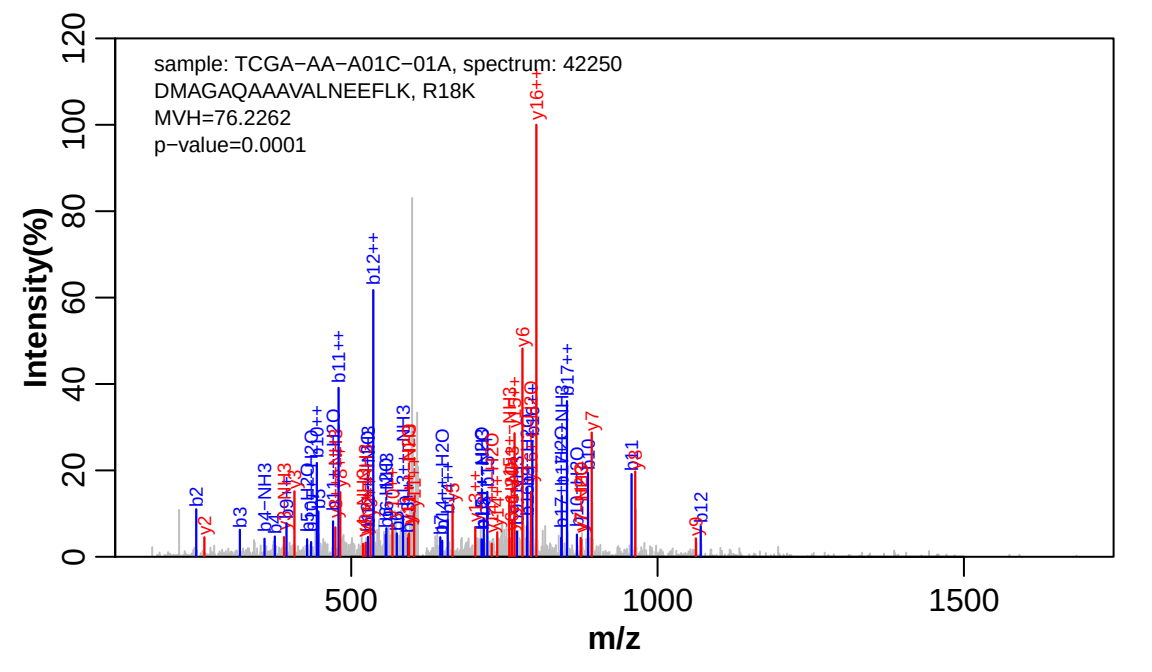

sample: TCGA−AA−A01C−01A, spectrum: 115642
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=49.1436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y11++
y12++
b13++
b12++
b21++
b13
b12
y12

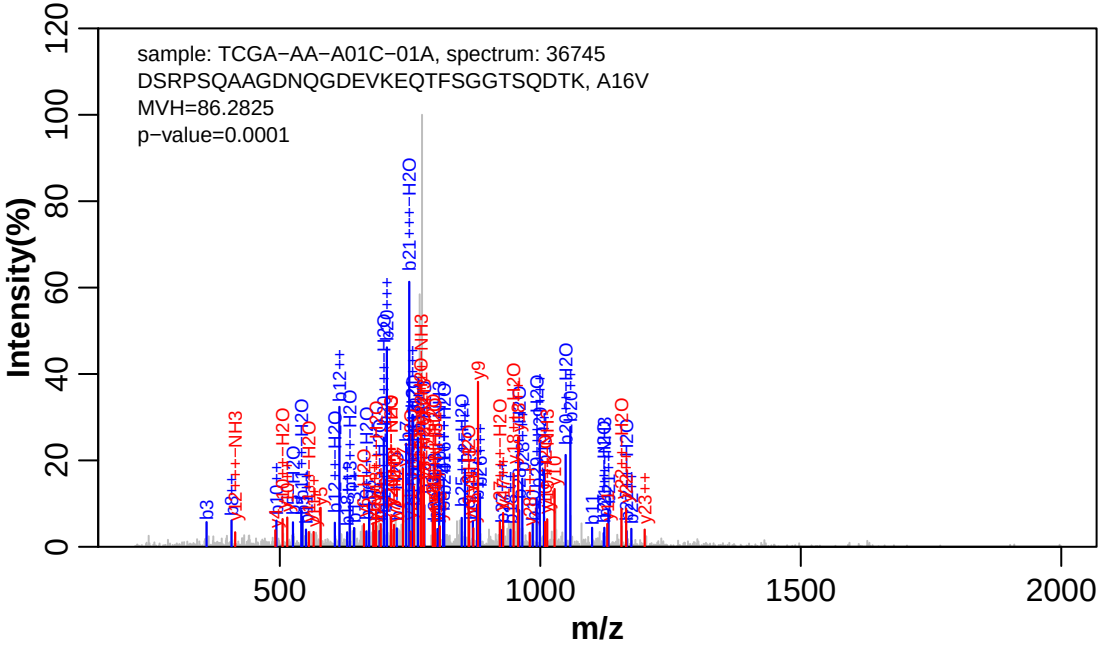

sample: TCGA−AA−A01C−01A, spectrum: 19122
DFYVVEPLAFEGTPEQK, I4V
MVH=51.0831
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7−H2O
y7
b8−H2O
b8
y9
b9
y10−H2O
b10
y11−NH3
y11
y12−H2O
y12
b12
b13
y13−NH3
b16

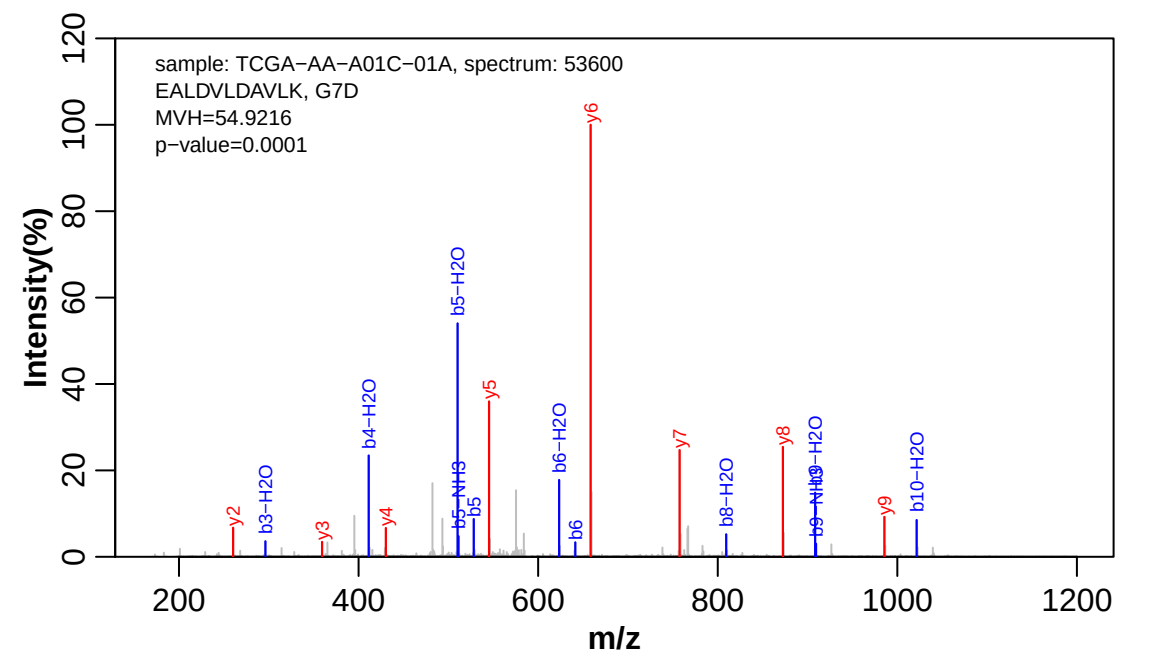

sample: TCGA−AA−A01C−01A, spectrum: 145813
DGYGFLNR, N1D
MVH=44.9810
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

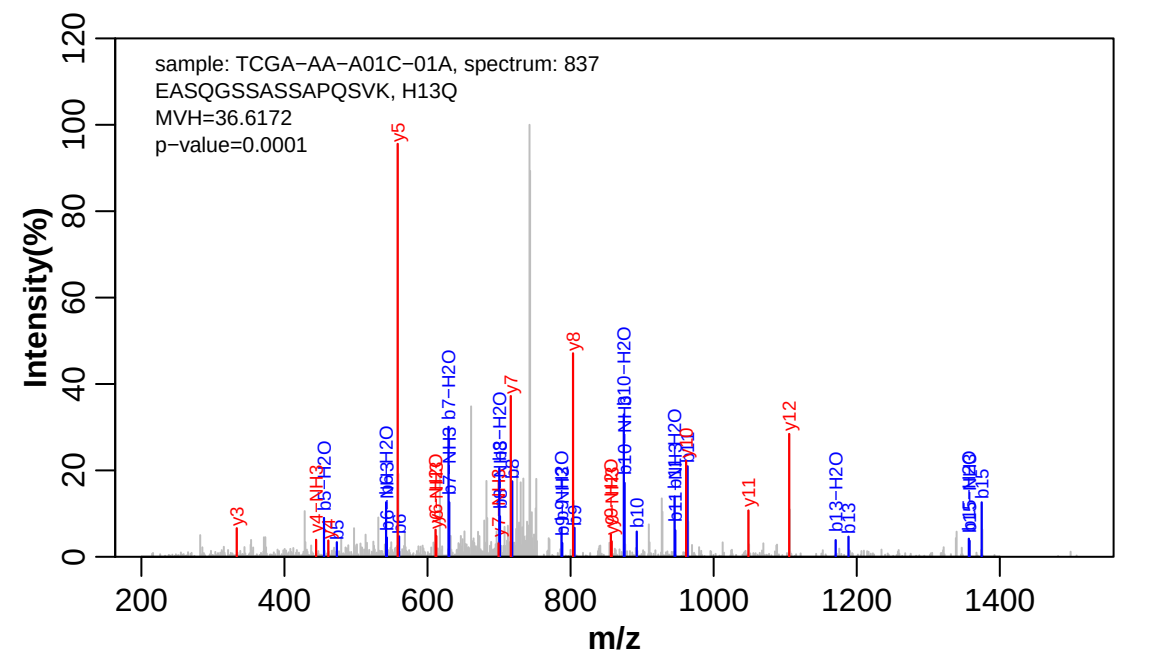

sample: TCGA−AA−A01C−01A, spectrum: 46970
DLEAHVDSANK, I6V
MVH=49.0791
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
b4
y5
b5
y6
b6
y7
b7
y8
b9−H2O
b9
y9
b10

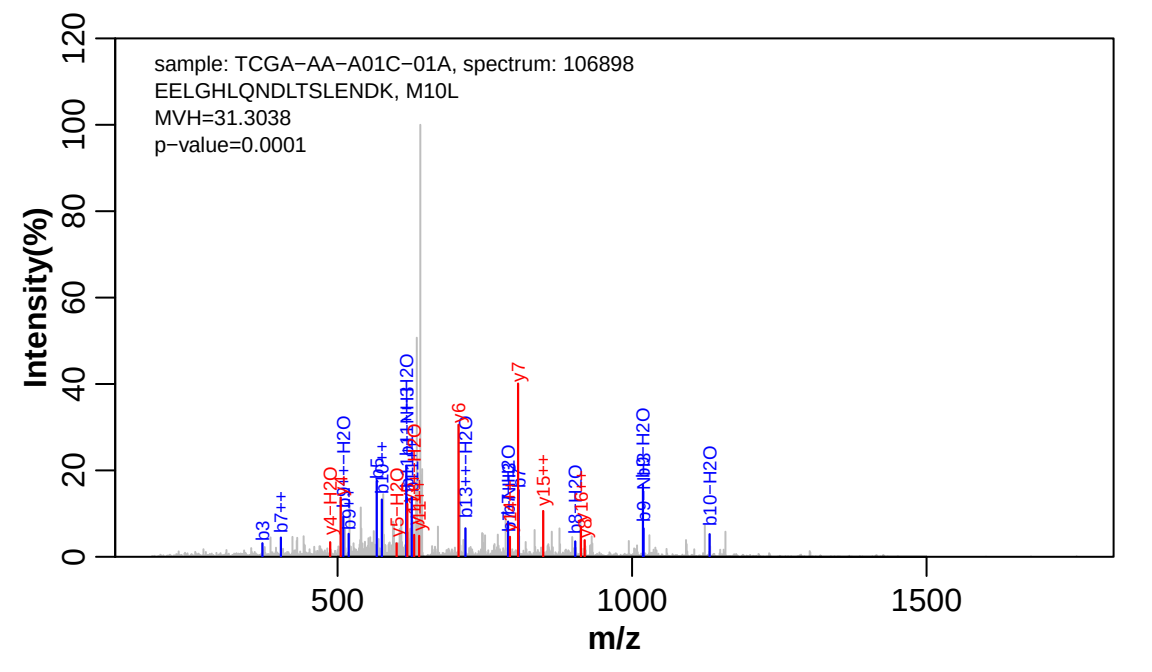

sample: TCGA−AA−A01C−01A, spectrum: 31049
DLGDLLEATGFDR, E10G
MVH=61.2692
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b4−H2O
b4
y3
y4
b5−H2O
b5
b6
y5
b6−H2O
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−H2O
y8
b9
b10
y9
b11
y11

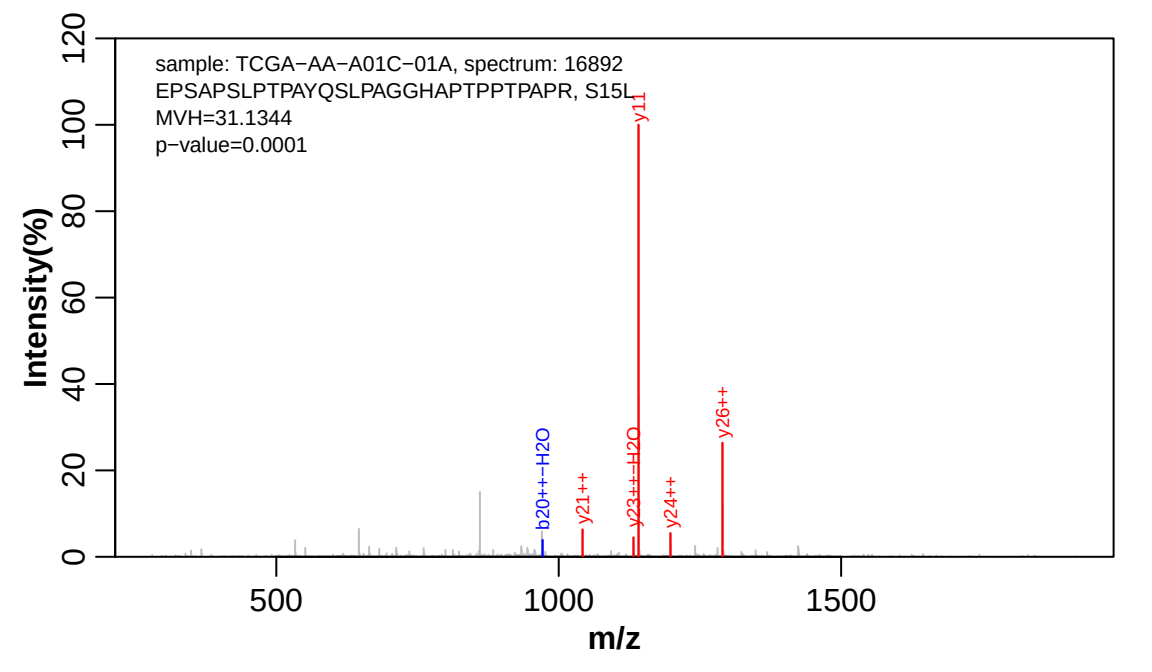

sample: TCGA−AA−A01C−01A, spectrum: 42250
DMAGAQAAAVALNEEFLK, R18K
MVH=76.2262
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
b12++
b11++
y6
b17++
y7
b2
y2
b3
b4−NH3
y11
y12

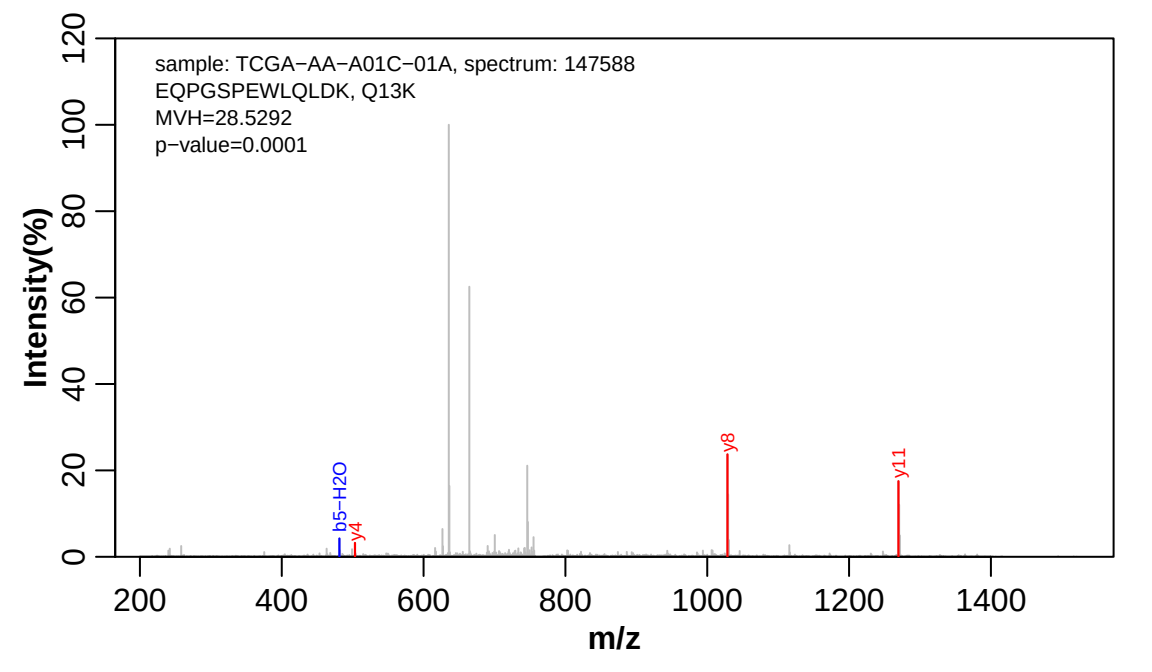

sample: TCGA−AA−A01C−01A, spectrum: 36745
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=86.2825
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b3
y8++−NH3
y10++−H2O
y5
b12++−H2O
b13++−H2O
b21+++−H2O
b20+++
b20+++−NH3
y9
b20+−H2O
b27++−H2O
b11
y23++

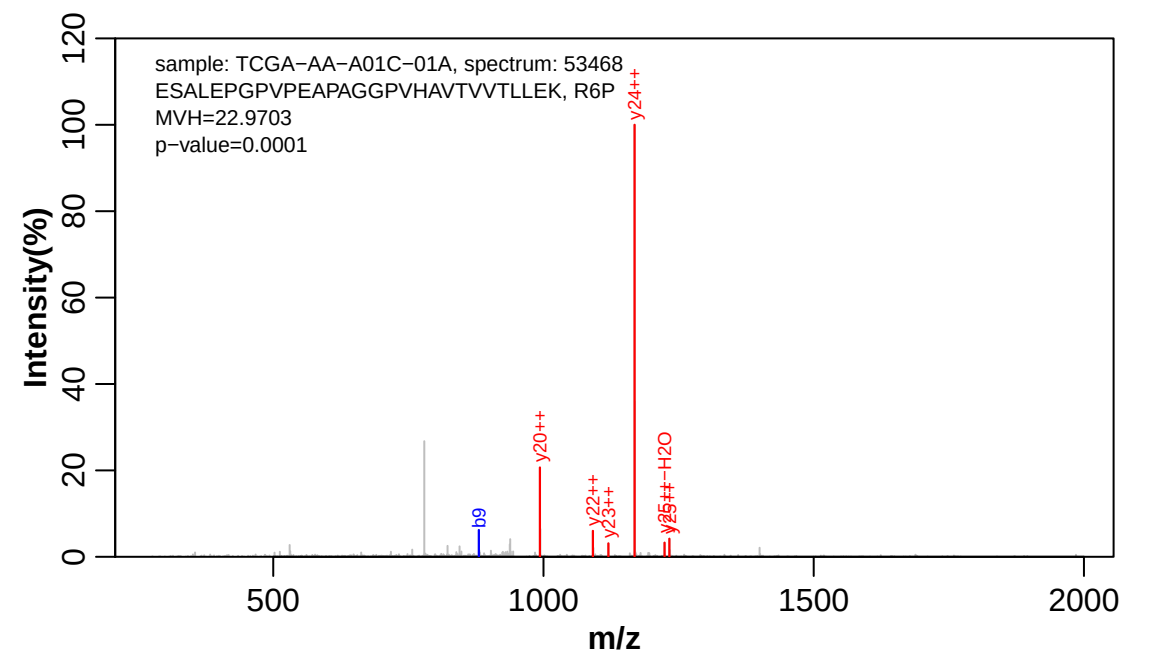

sample: TCGA−AA−A01C−01A, spectrum: 53600
EALDVLDAVLK, G7D
MVH=54.9216
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−NH3−H2O
y9
b10−H2O

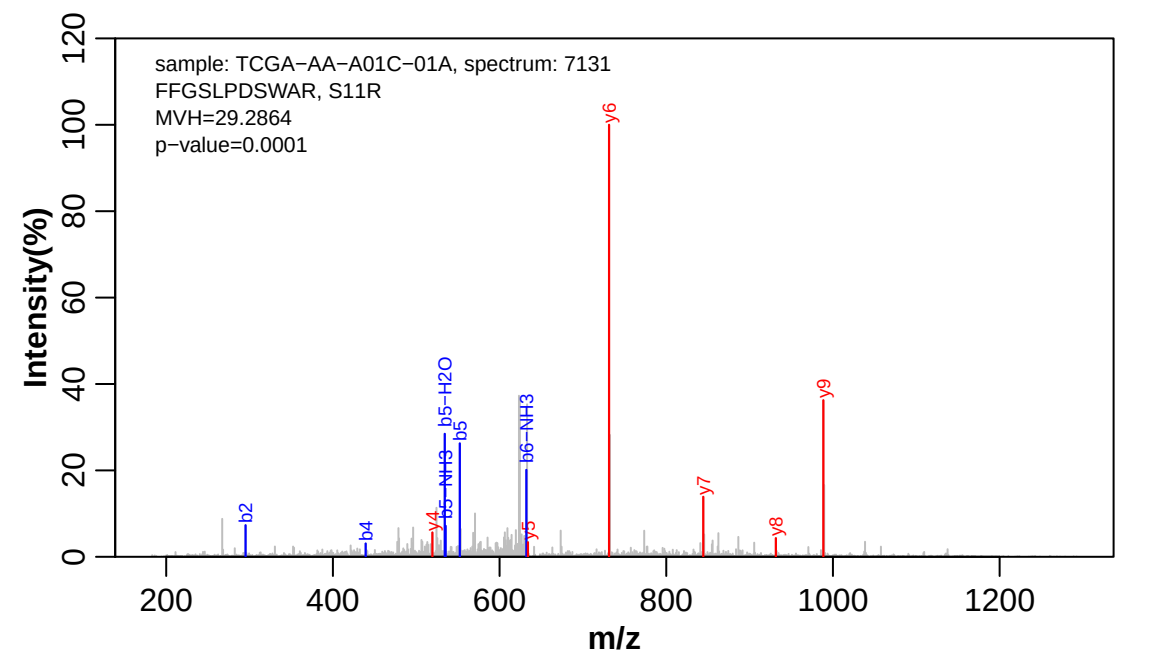

sample: TCGA−AA−A01C−01A, spectrum: 837
EASQGSSASSAPQSVK, H13Q
MVH=36.6172
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y7
y12
y11
y3
b7−H2O
b10−H2O
b13−H2O
b10
b13

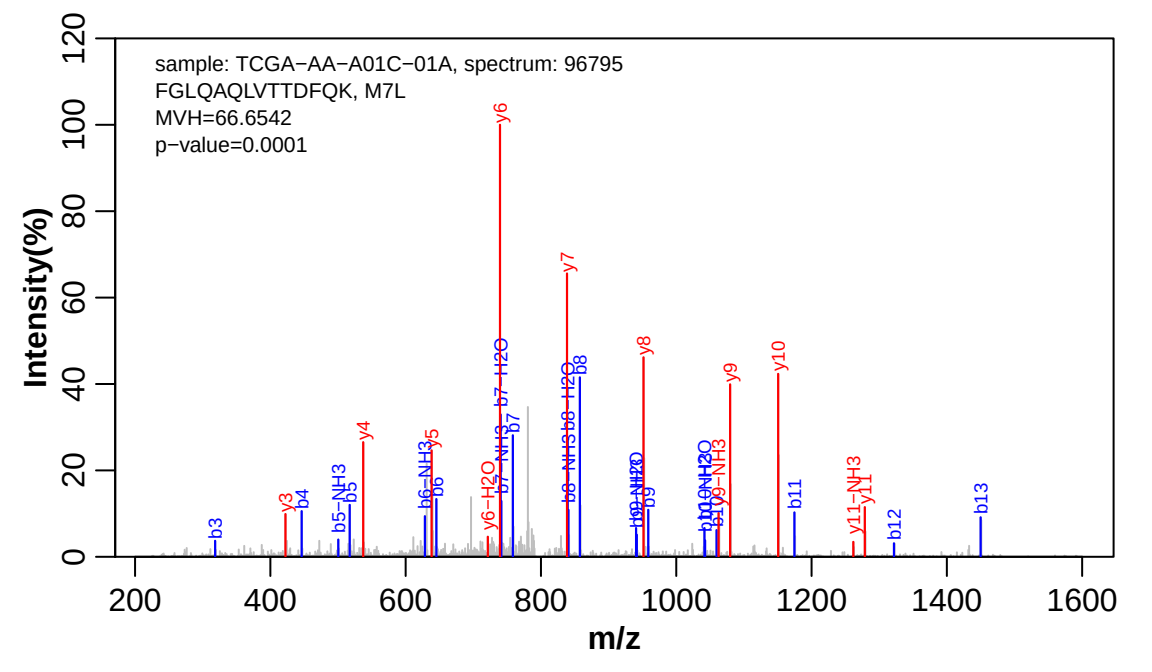

sample: TCGA−AA−A01C−01A, spectrum: 106898
EELGHLQNDLTSLENDK, M10L
MVH=31.3038
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b7++
y4−H2O
b9++−H2O
b10++
y5−H2O
b11++−NH3−H2O
b13++−H2O
y6
y7
y15++
b8−H2O
b9−NH3−H2O
b10−H2O

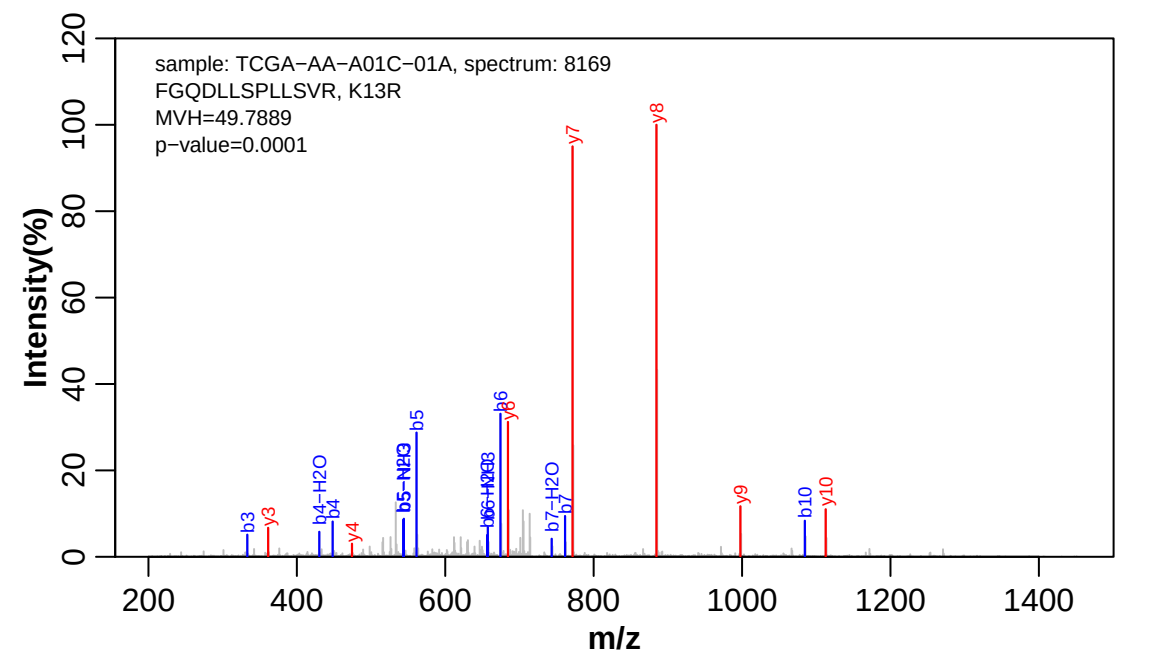

sample: TCGA−AA−A01C−01A, spectrum: 16892
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=31.1344
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b20++−H2O
y21++
y23++−H2O
y24++
y11
y26++

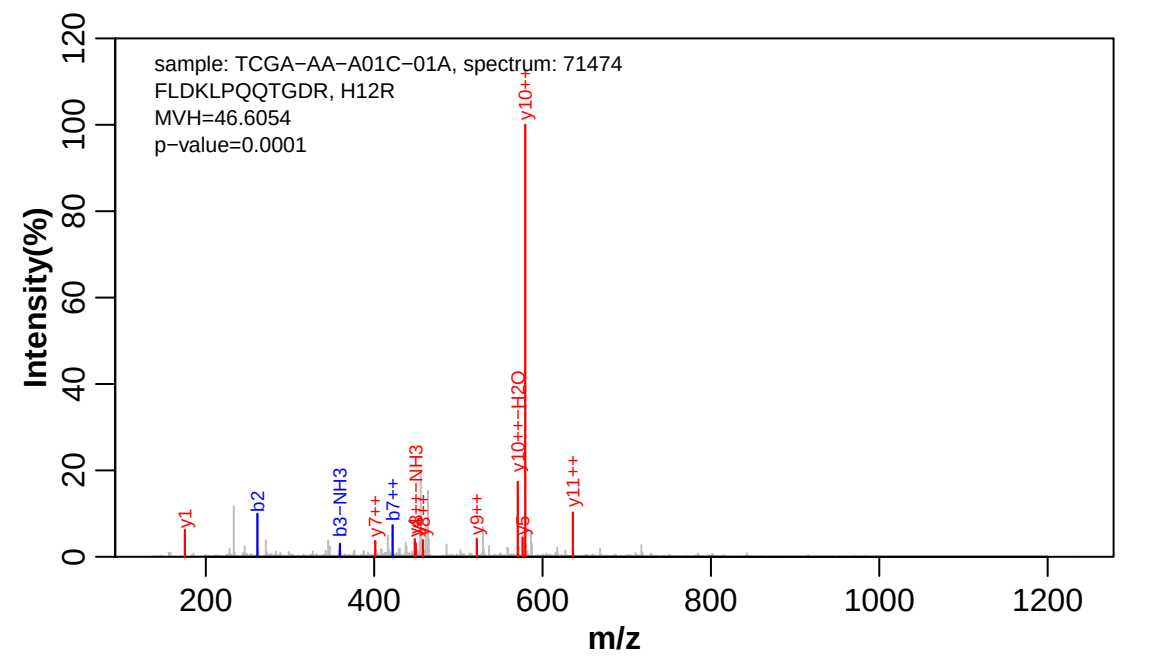

sample: TCGA−AA−A01C−01A, spectrum: 147588
EQPGSPEWLQLDK, Q13K
MVH=28.5292
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

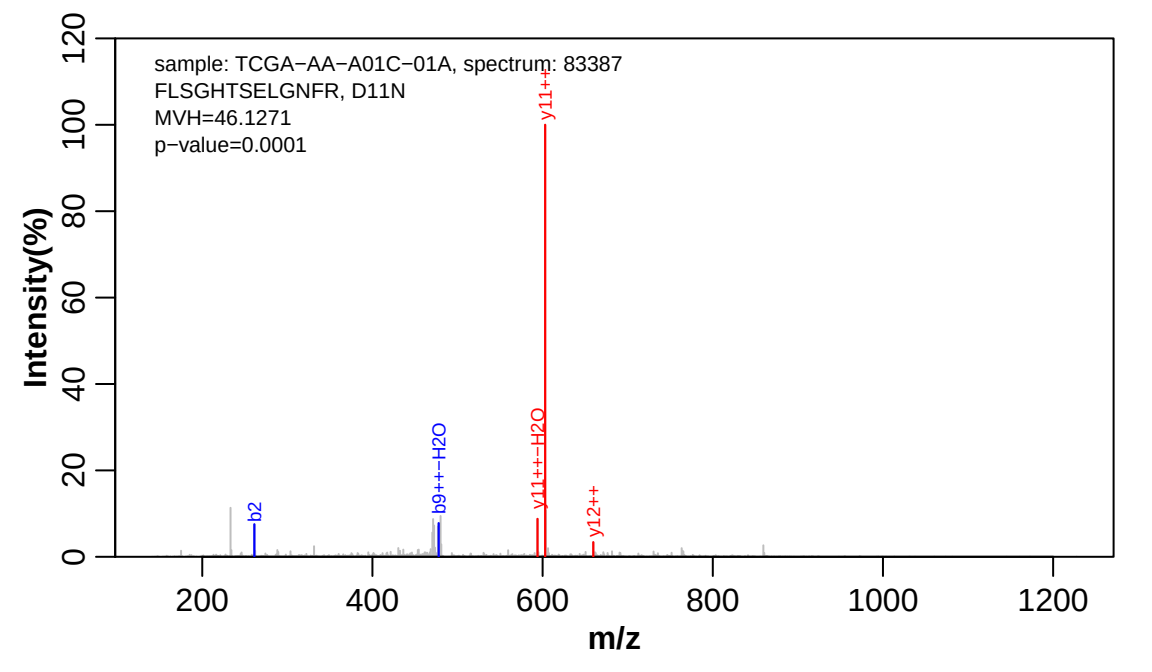

sample: TCGA−AA−A01C−01A, spectrum: 53468
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=22.9703
p−value=0.0001
y24++
y20++
b9
y22++
y23++
y25++−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

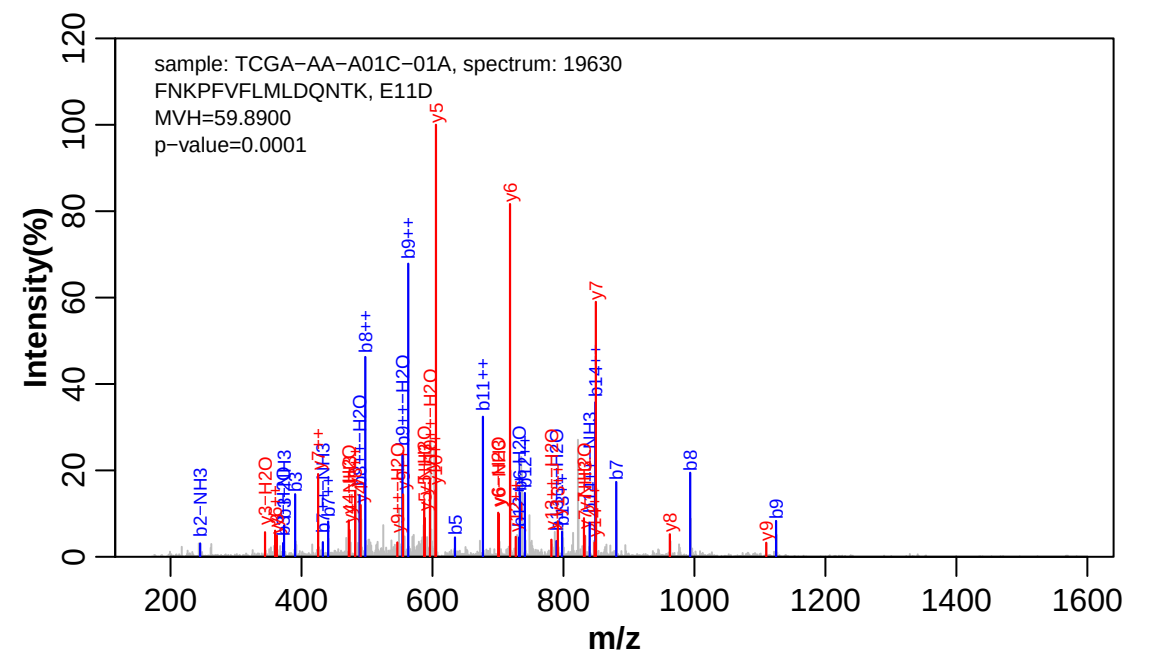

sample: TCGA−AA−A01C−01A, spectrum: 7131
FFGSLPDSWAR, S11R
MVH=29.2864
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
y6
y7
y8
y9

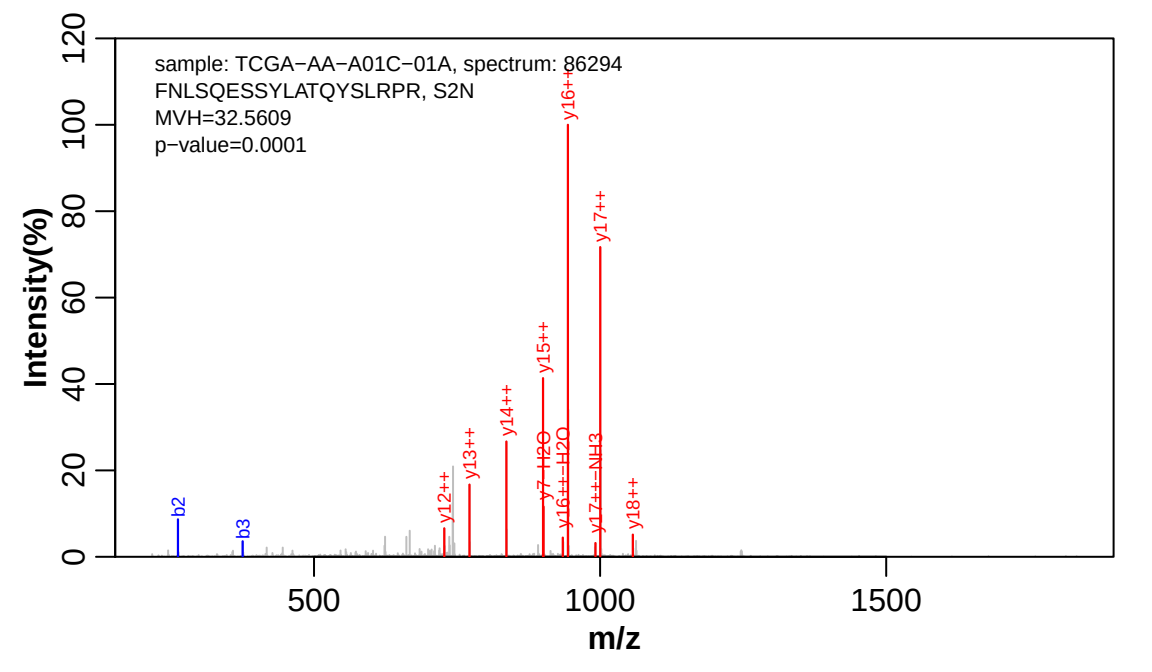

sample: TCGA−AA−A01C−01A, spectrum: 96795
FGLQAQLVTTDFQK, M7L
MVH=66.6542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y9
y10
y4
y5
y3
b3
b4
b5
b6
b7
b8
b11
b12
b13
y11
y6−H2O
b7−NH3
b7−H2O
b8−NH3
b8−H2O
b5−NH3
b6−NH3
b9−NH3

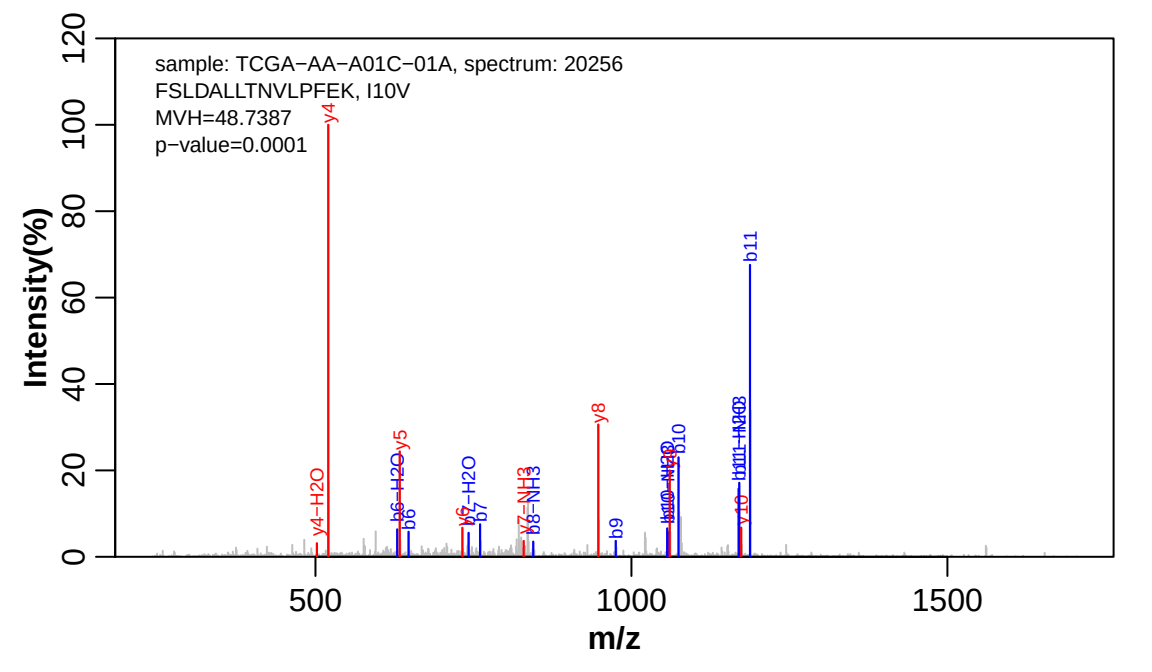

sample: TCGA−AA−A01C−01A, spectrum: 8169
FGQDLLSPLLSVR, K13R
MVH=49.7889
p−value=0.0001
Intensity(%)
m/z
b3
y3
b4−H2O
b4
y4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

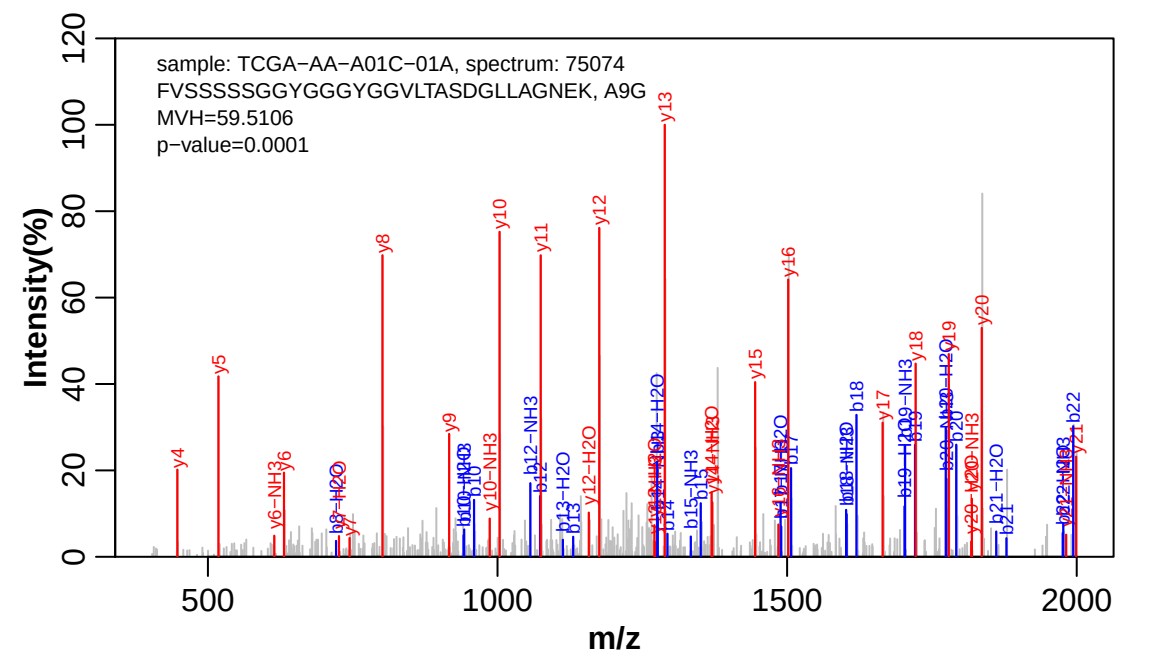

sample: TCGA−AA−A01C−01A, spectrum: 71474
FLDKLPQQTGDR, H12R
MVH=46.6054
p−value=0.0001
Intensity(%)
m/z
y1
b2
b3−NH3
y7++
b7++
y8++−NH3
y9++
y10++−H2O
y10++
y11++

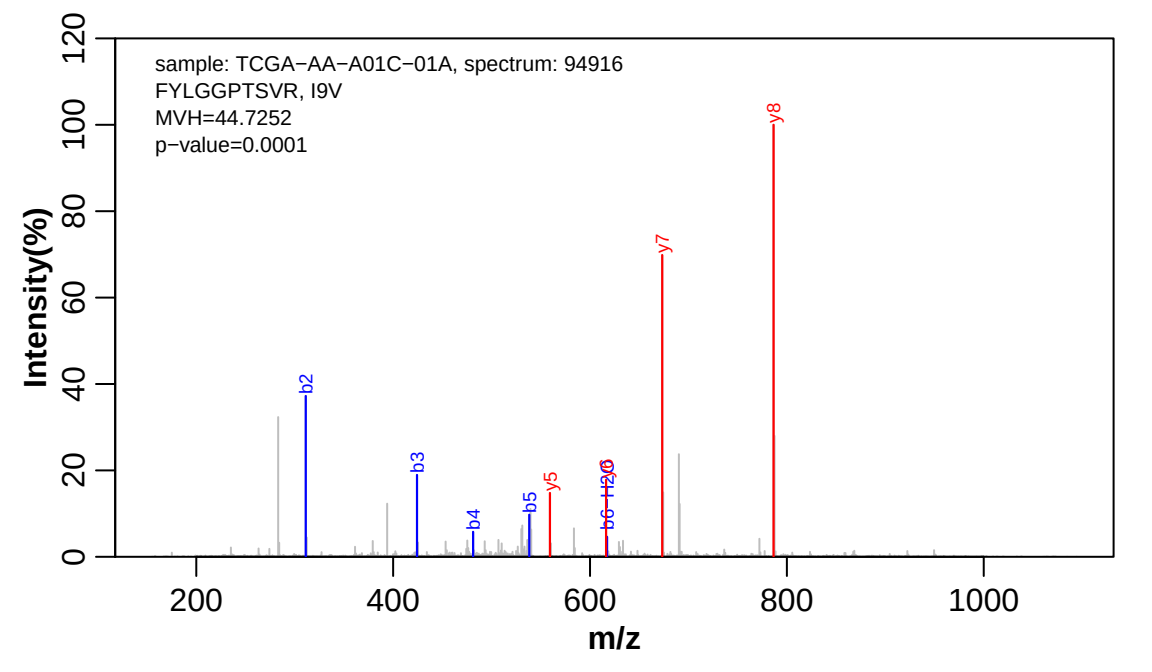

sample: TCGA−AA−A01C−01A, spectrum: 83387
FLSGHTSELGNFR, D11N
MVH=46.1271
p−value=0.0001
y11++
y11++−H2O
b9++−H2O
b2
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

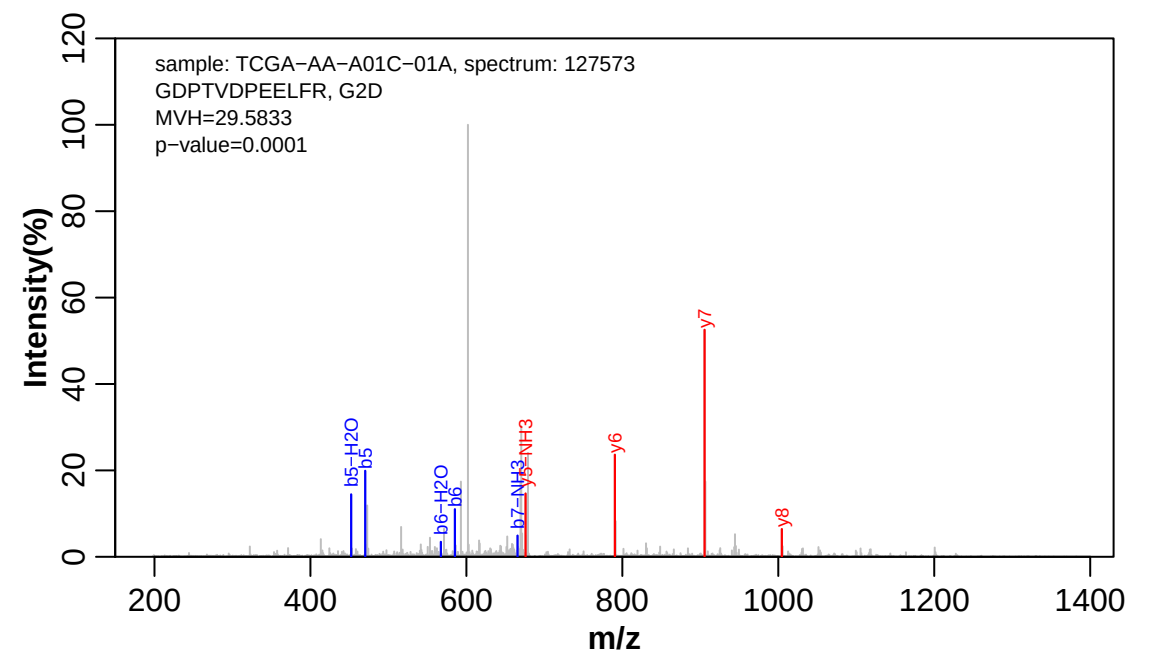

sample: TCGA−AA−A01C−01A, spectrum: 19630
FNKPFVFLMLDQNTK, E11D
MVH=59.8900
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b9++
b8++
b11++
b14++
b2−NH3
b5
b7
b8
b9
y8
y9

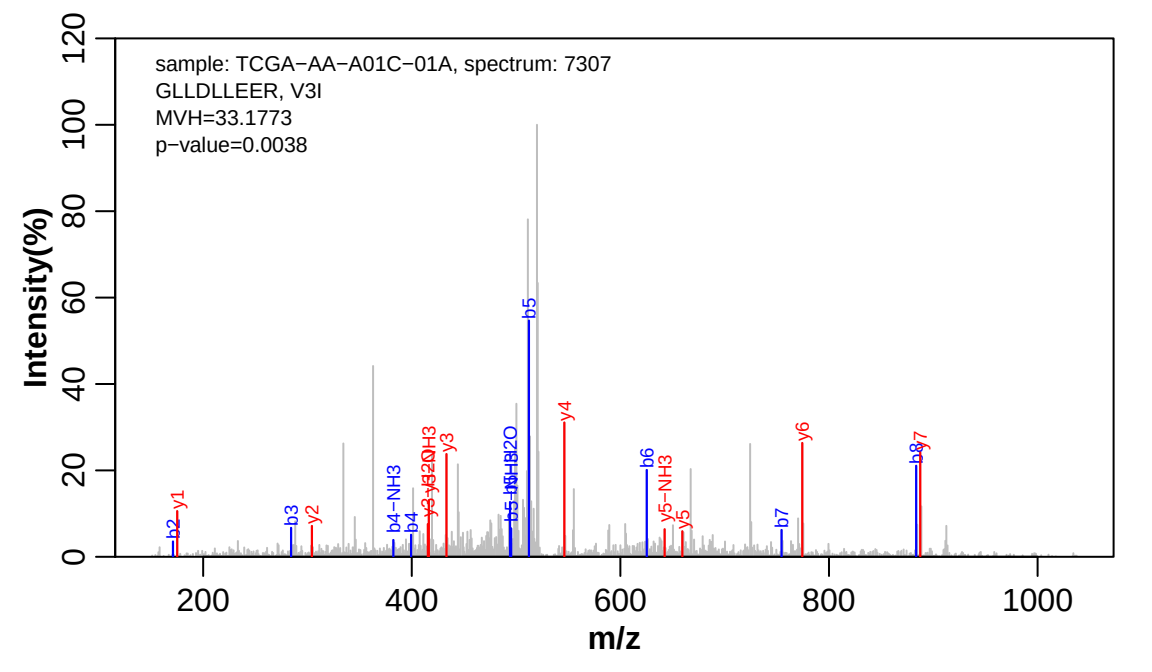

sample: TCGA−AA−A01C−01A, spectrum: 86294
FNLSQESSYLATQYSLRPR, S2N
MVH=32.5609
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y12++
y13++
y14++
y7−H2O
y15++
y16++−H2O
y16++
y17++−NH3
y17++
y18++

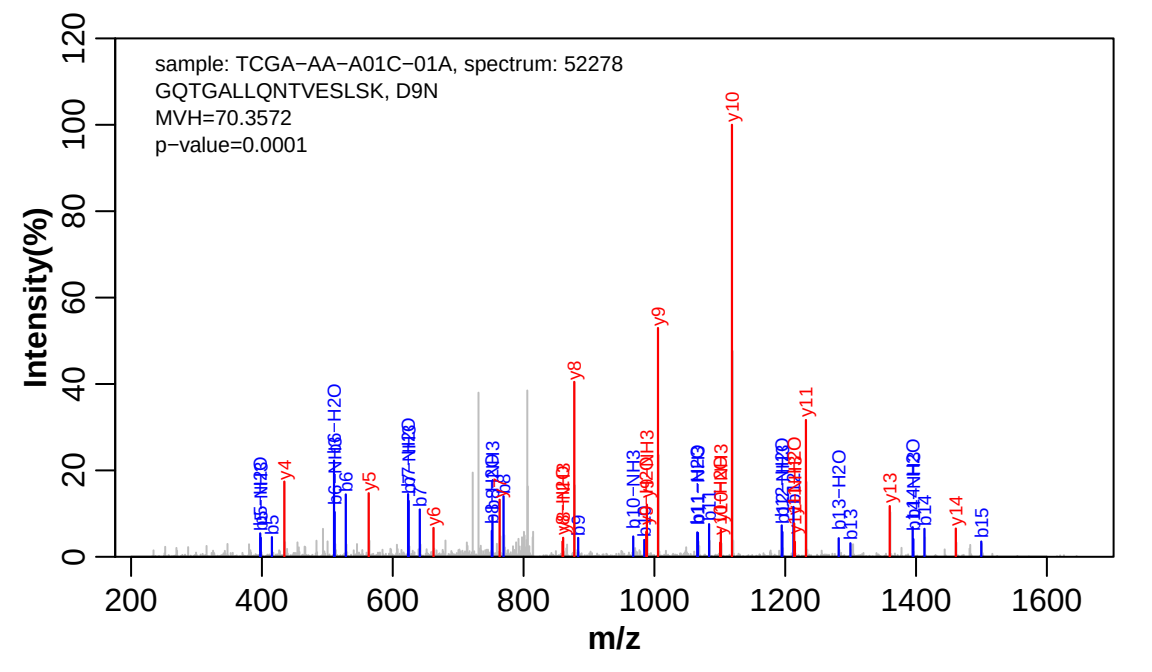

sample: TCGA−AA−A01C−01A, spectrum: 20256
FSLDALLTNVLPFEK, I10V
MVH=48.7387
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y4−H2O
y5
b6−H2O
b6
y6−H2O
b7
y7−NH3
b8−NH3
y8
b9
b10
b11
y10

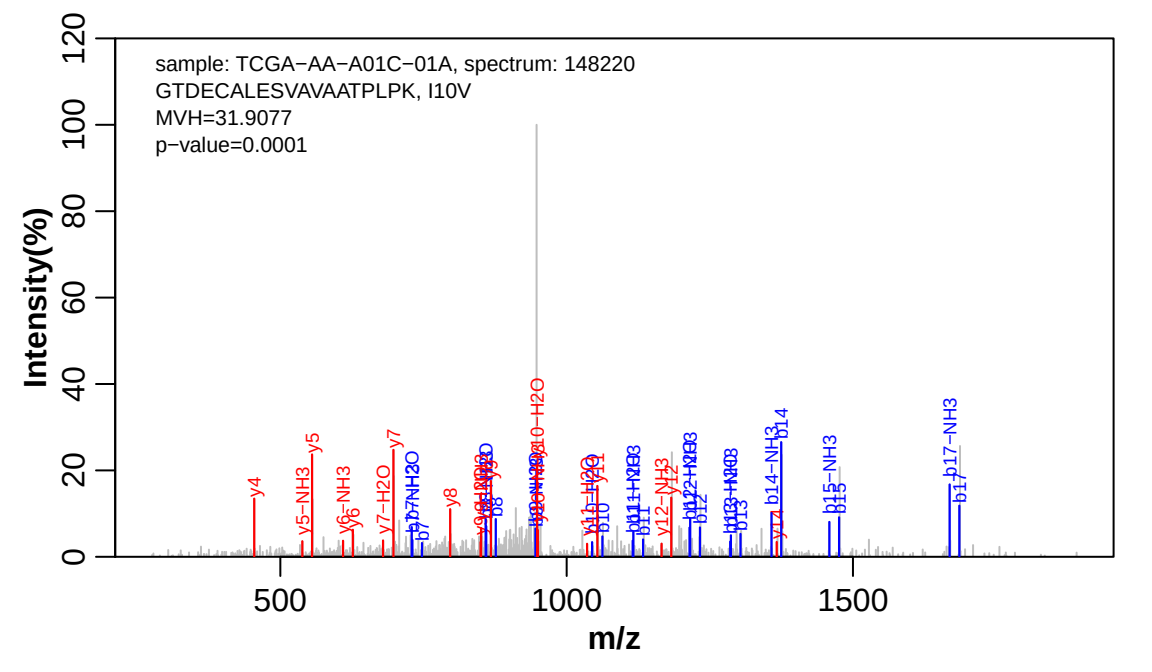

sample: TCGA−AA−A01C−01A, spectrum: 75074
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=59.5106
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y6−NH3
y8
y9
y10
y10−NH3
y11
b12−NH3
y12
y12−H2O
y13
y14
y15
y16
y17
b18
y18
y19
y20
y20−NH3
b21−H2O
b21
b22
y21

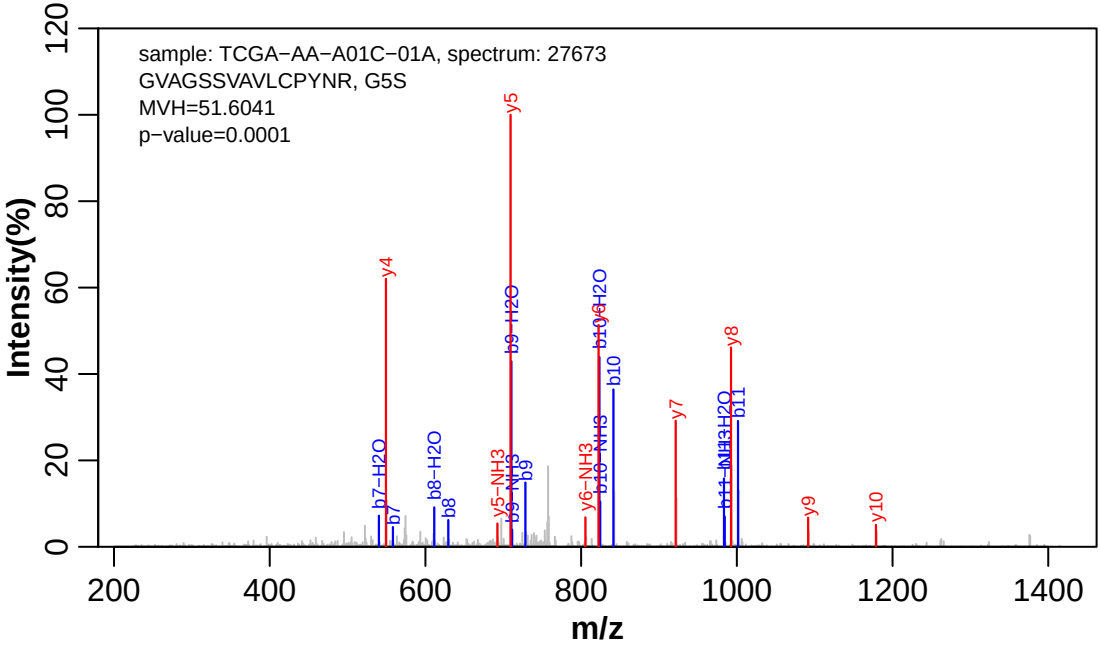

sample: TCGA−AA−A01C−01A, spectrum: 94916
FYLGGPTSVR, I9V
MVH=44.7252
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

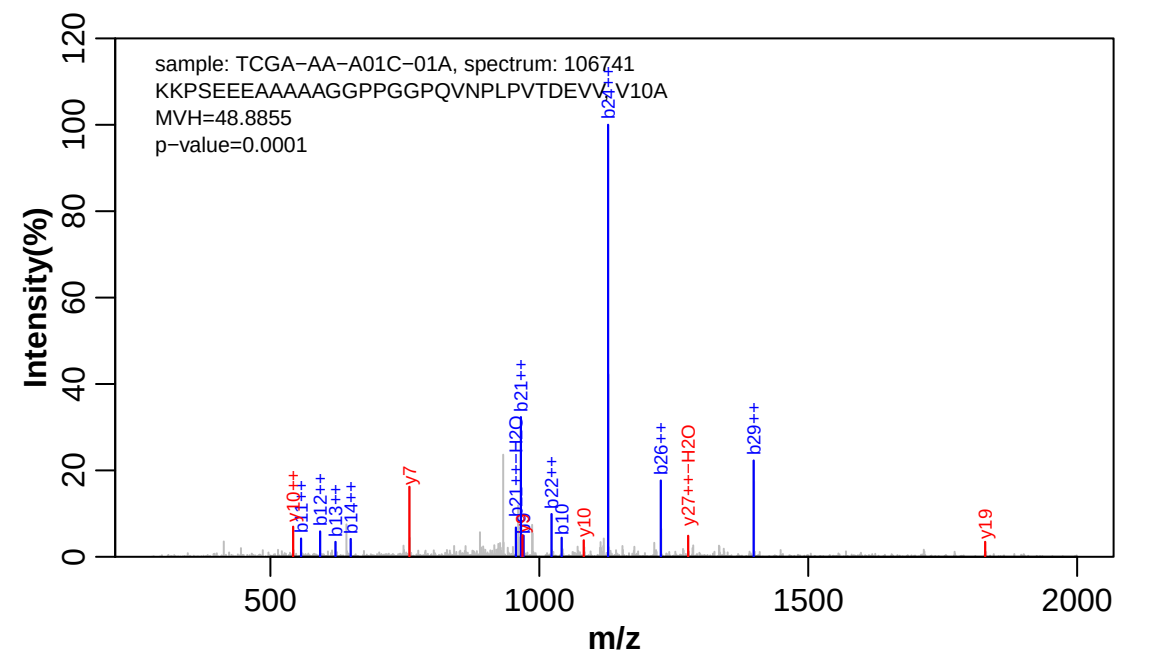

sample: TCGA−AA−A01C−01A, spectrum: 127573
GDPTVDPEELFR, G2D
MVH=29.5833
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b5−H2O
b5
b6−H2O
b6
b7−NH3
y8−NH3
y6
y7
y8

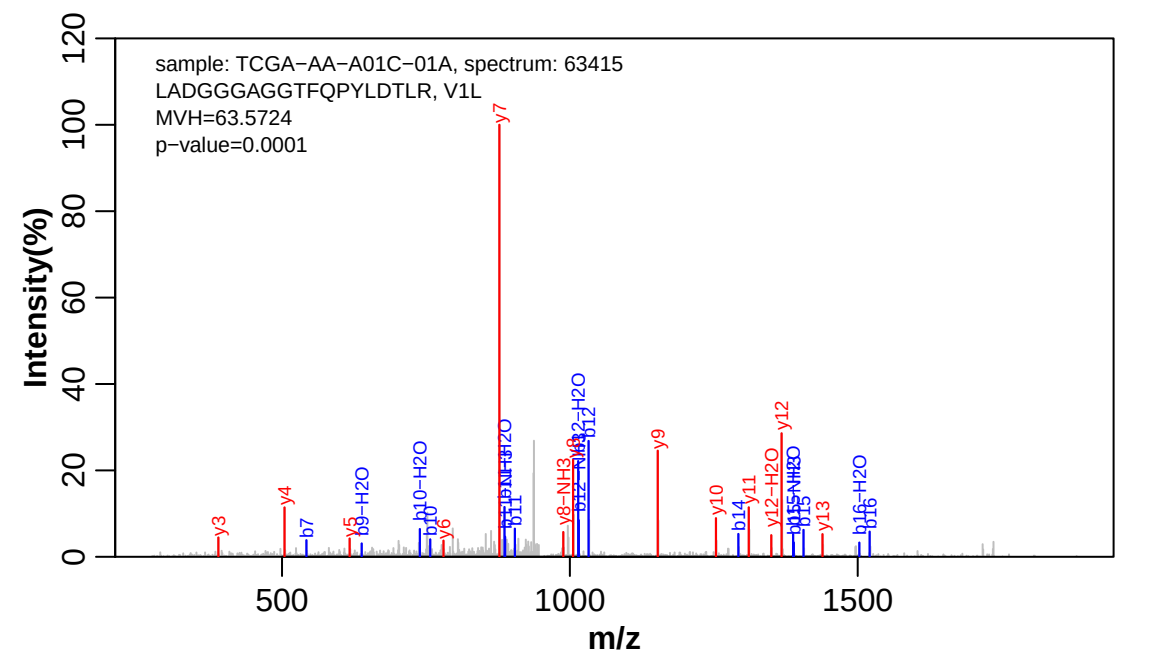

sample: TCGA−AA−A01C−01A, spectrum: 7307
GLLDLLEER, V3I
MVH=33.1773
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
b3
y2
b4−NH3
b4
y3−NH3
y3
b5
y4
b6
y5−NH3
y5
b7
y6
b8
y7

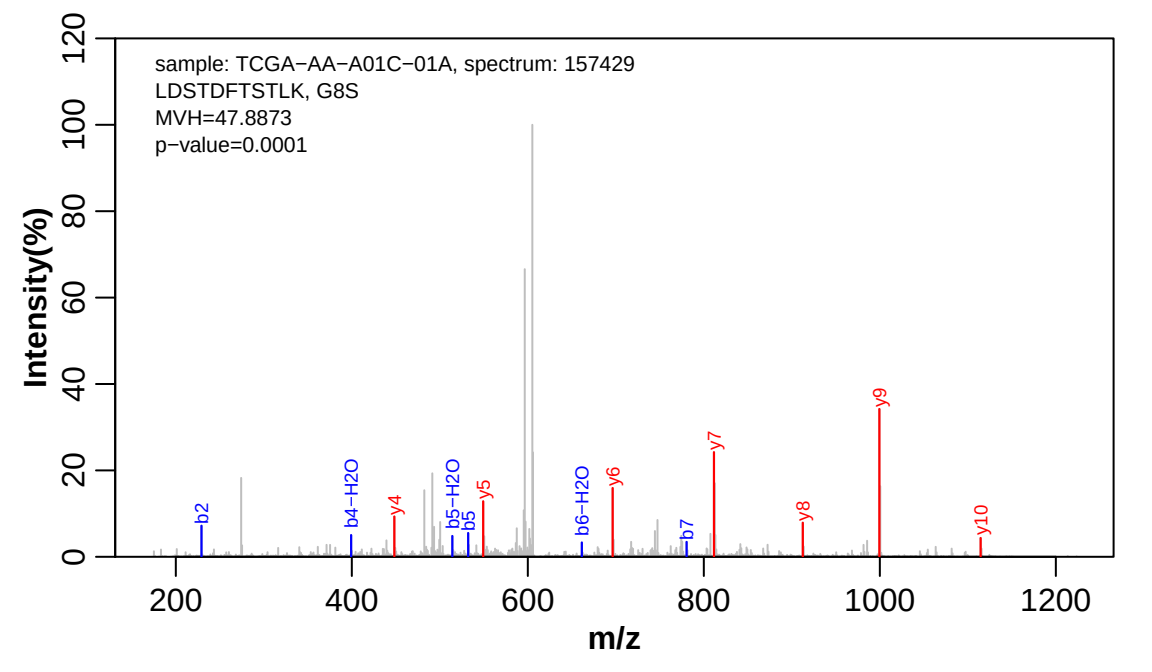

sample: TCGA−AA−A01C−01A, spectrum: 52278
GQTGALLQNTVESLSK, D9N
MVH=70.3572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y4
y5
y6
y13
y14
b15
b13−H2O
b10−NH3
b6−NH3−H2O

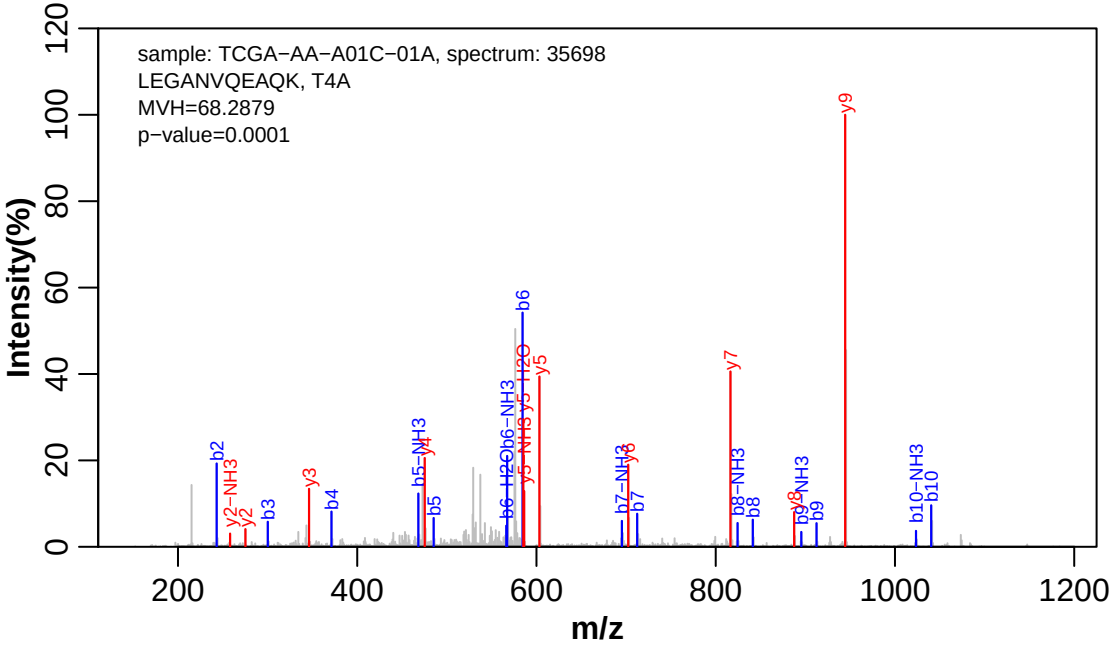

sample: TCGA−AA−A01C−01A, spectrum: 148220
GTDECALESVAVAATPLPK, I10V
MVH=31.9077
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5−NH3
y5
y6
y6−NH3
y7−H2O
y7
y8
b14
b14−NH3
b15−NH3
b17−NH3

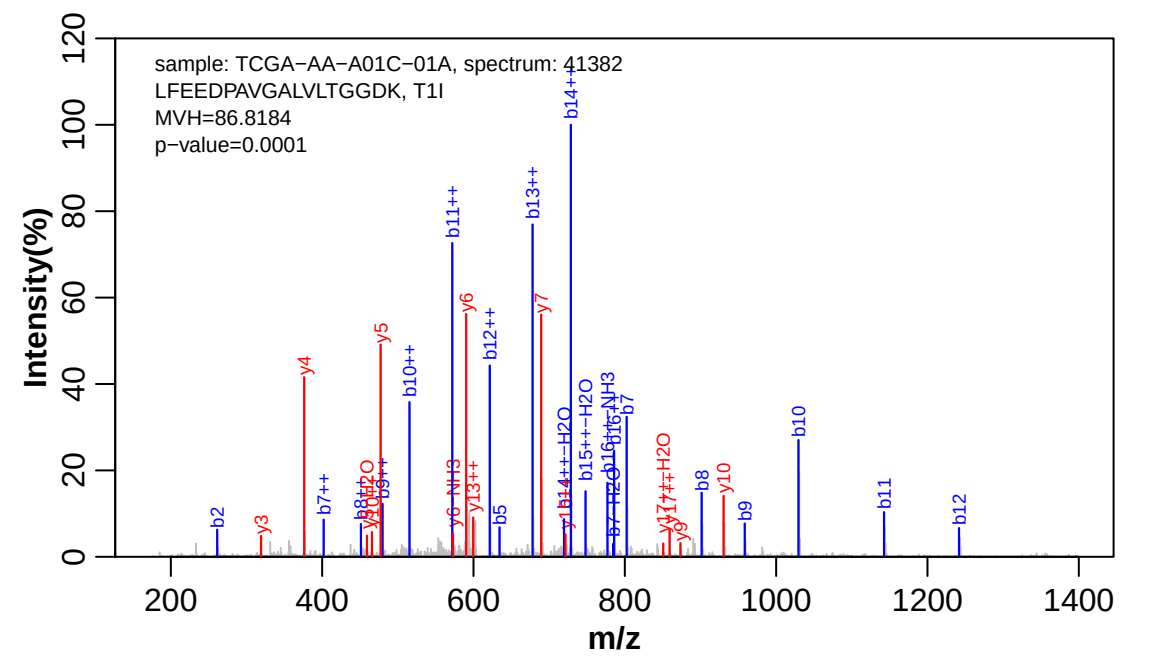

sample: TCGA−AA−A01C−01A, spectrum: 27673
GVAGSSVAVLCPYNR, G5S
MVH=51.6041
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
y8
b10
y7
b11
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3−H2O
y9
y10
b7
b8

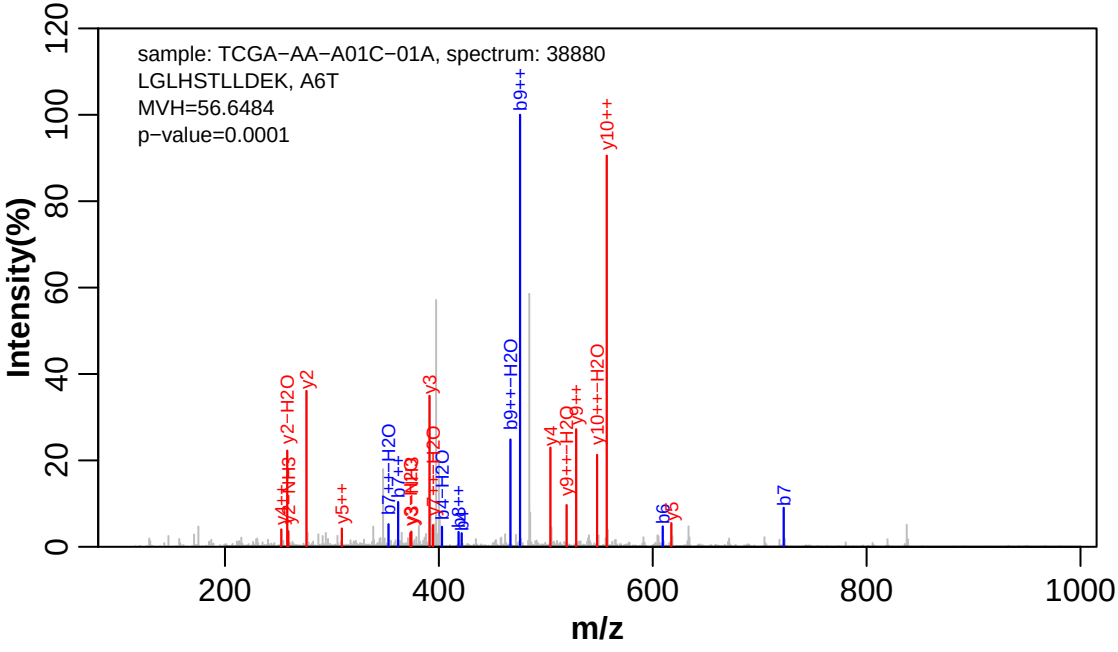

sample: TCGA−AA−A01C−01A, spectrum: 106741
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=48.8855
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−H2O
b29++
b26++
y27++−H2O
y19
y7
y10++
b11++
b12++
b13++
b14++
b9
b10
b22++
y10

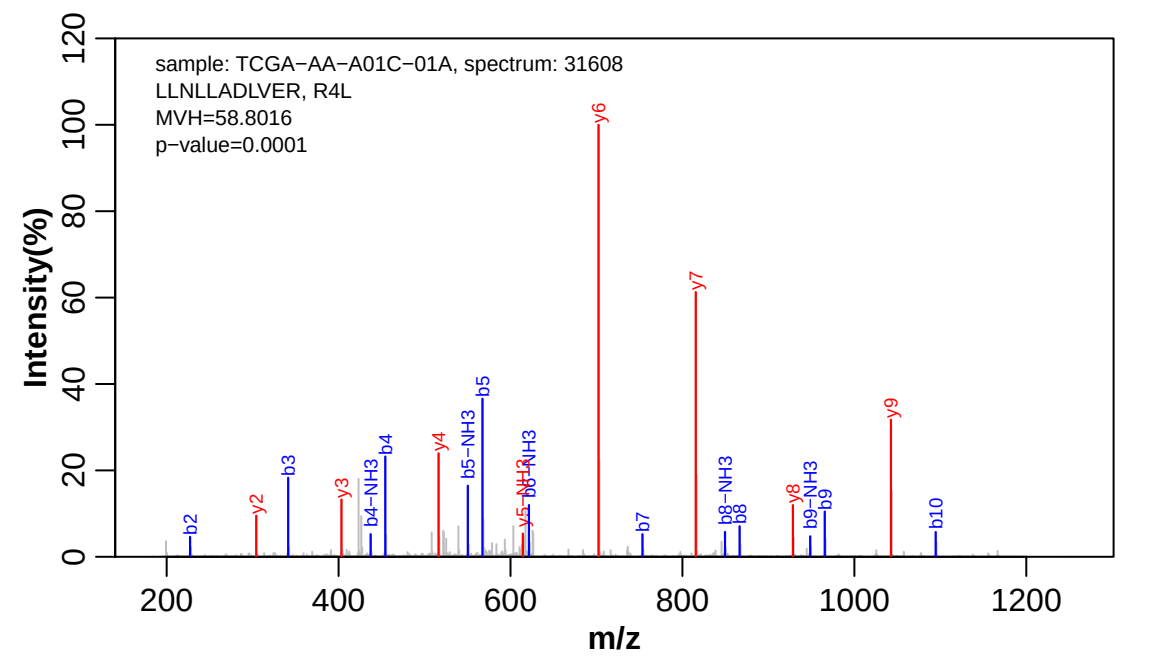

sample: TCGA−AA−A01C−01A, spectrum: 63415
LADGGGAGGTFQPYLDTLR, V1L
MVH=63.5724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y4
y3
b7
y5
b9−H2O
b10−H2O
b10
y6
y8−NH3
y8
b12−H2O
b12
y9
y10
b14
y11
y12−H2O
y12
y13
b16−H2O
b16

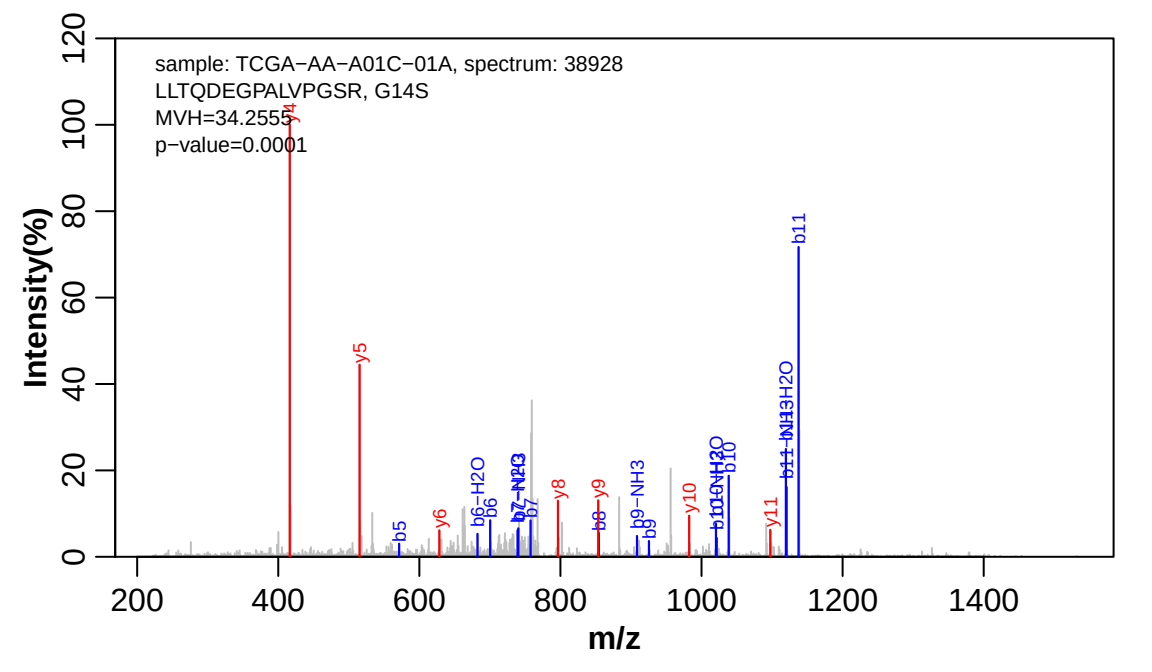

sample: TCGA−AA−A01C−01A, spectrum: 157429
LDSTDFTSTLK, G8S
MVH=47.8873
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
b7
y7
y8
y9
y10

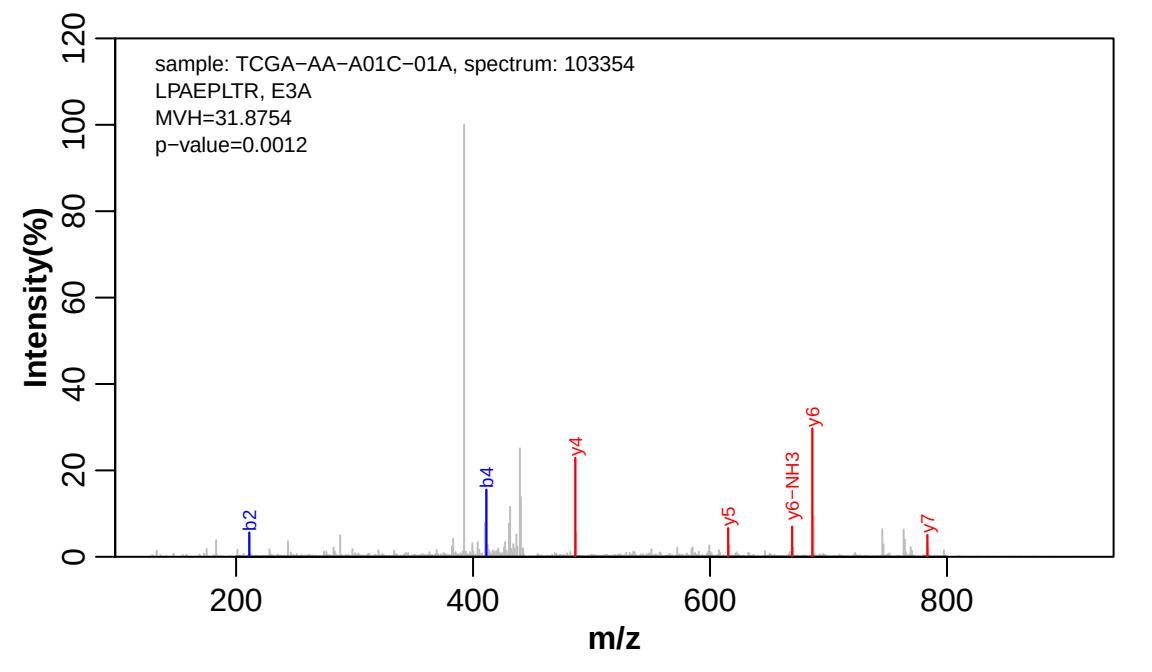

sample: TCGA−AA−A01C−01A, spectrum: 35698
LEGANVQEAQK, T4A
MVH=68.2879
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
y2
b3
y3
b4
b5−NH3
y4
b5
b6−H2O
b6−NH3
y5−NH3
y5−H2O
b6
y5
b7−NH3
y6
b7
y7
b8−NH3
b8
b9−NH3
y8
b9
y9
b10−NH3
b10

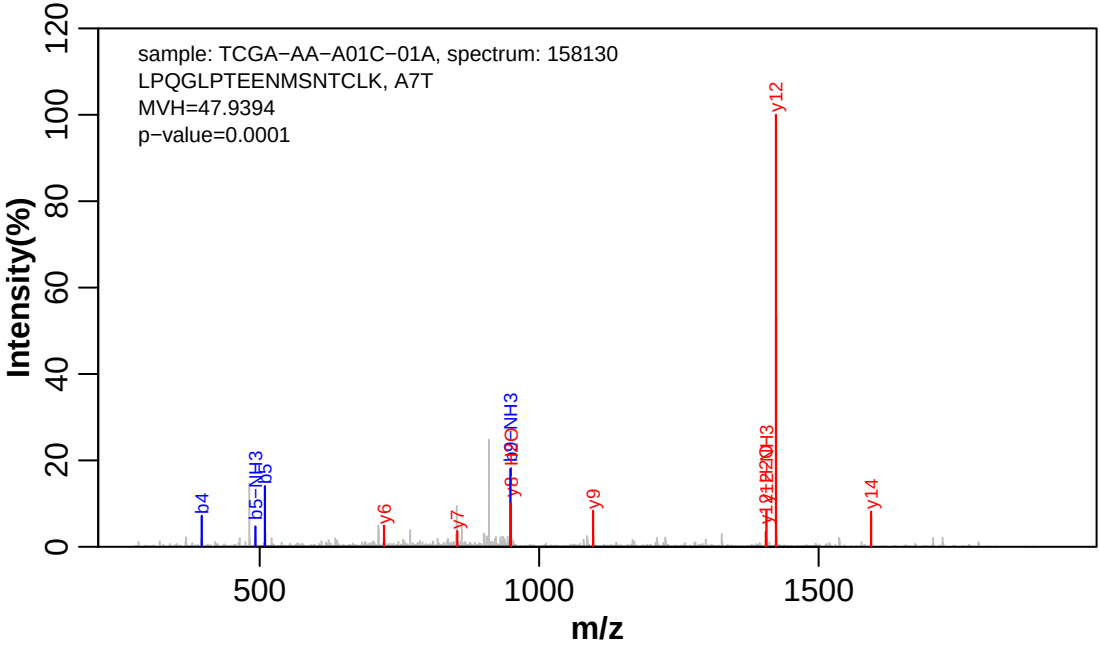

sample: TCGA−AA−A01C−01A, spectrum: 41382
LFEEDPAVGALVLTGGDK, T1I
MVH=86.8184
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b7++
y5
b10++
b11++
y6
b12++
y7
b13++
b14++
b5
y13++
b15++−H2O
b15++−NH3
b10
b11
b12
y10
b9
b8

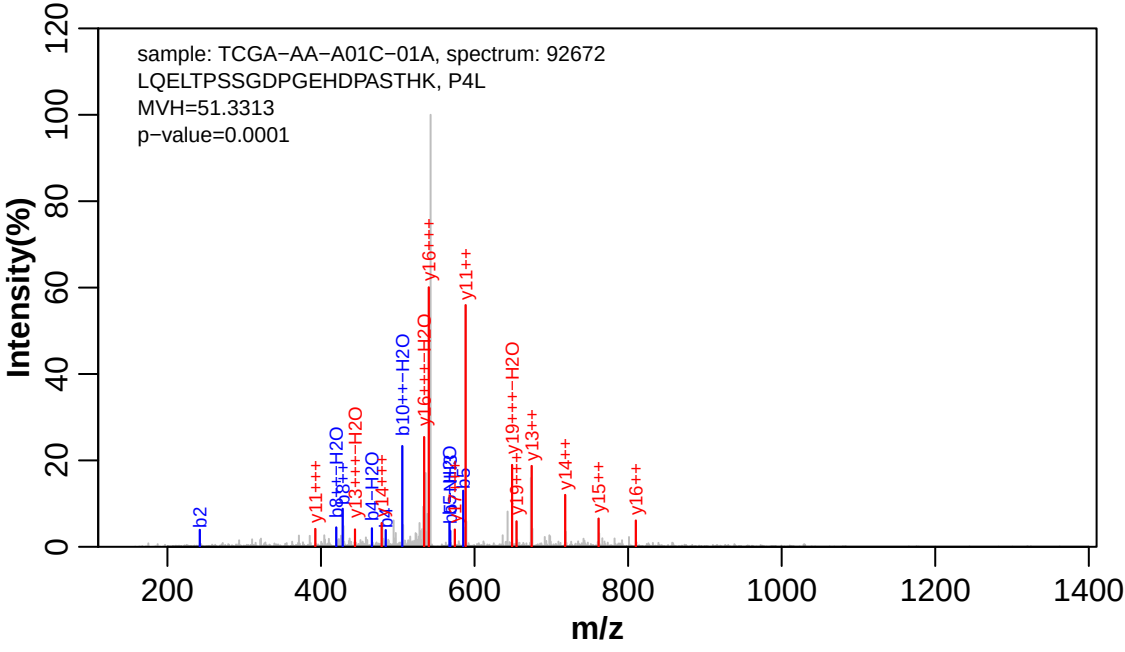

sample: TCGA−AA−A01C−01A, spectrum: 38880
LGLHSTLLDEK, A6T
MVH=56.6484
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b9++
y10++
b9++−H2O
y10++−H2O
y2
y2−H2O
y3
y4
y9++
y5++
b7++−H2O
b7++
b7
b6
y5

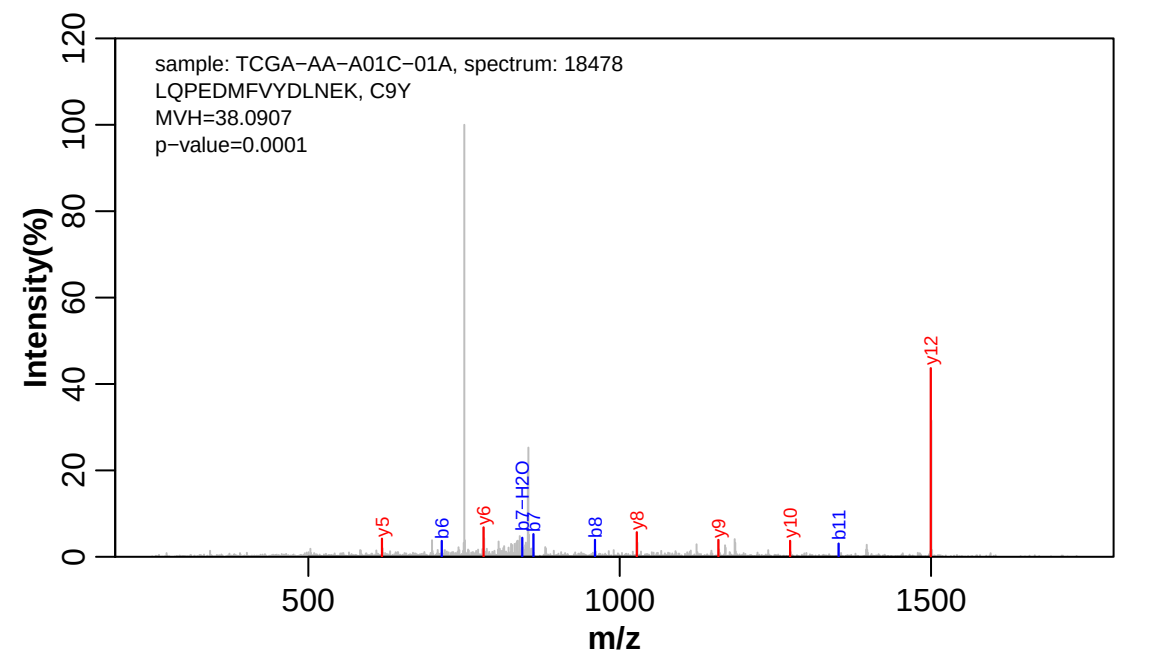

sample: TCGA−AA−A01C−01A, spectrum: 31608
LLNLLADLVER, R4L
MVH=58.8016
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

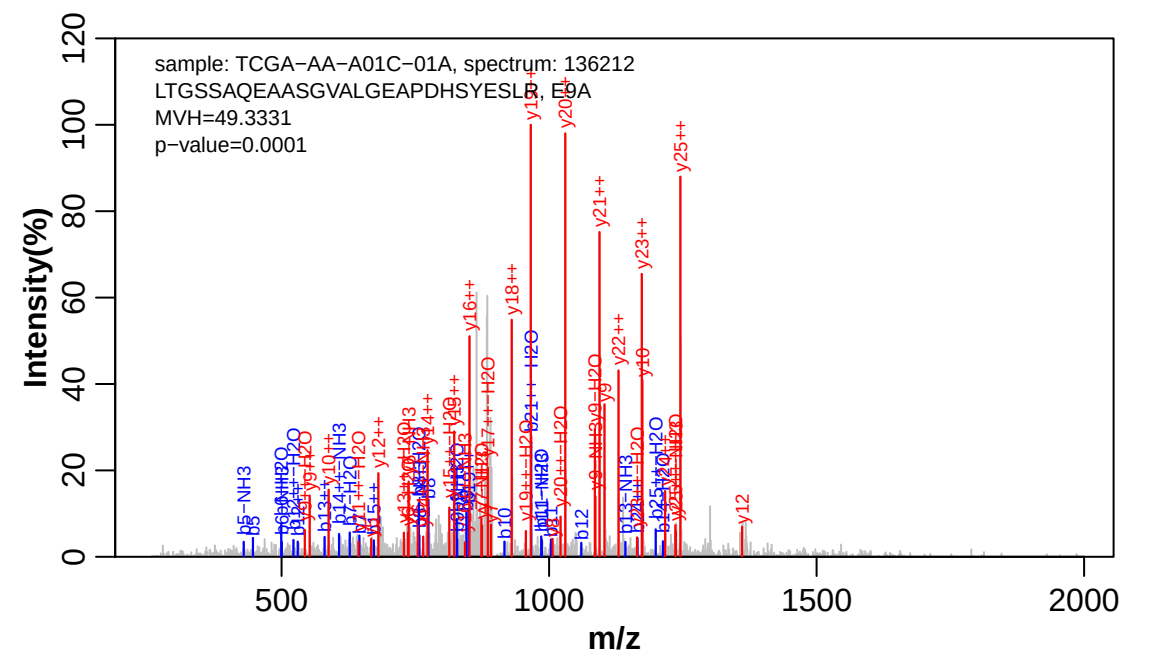

sample: TCGA−AA−A01C−01A, spectrum: 38928
LLTQDEGPALVPGSR, G14S
MVH=34.2555
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y6
y8
y9
y10
y11
b5
b6
b6−H2O
b7
b8
b9
b9−NH3
b10
b11
b11−H2O

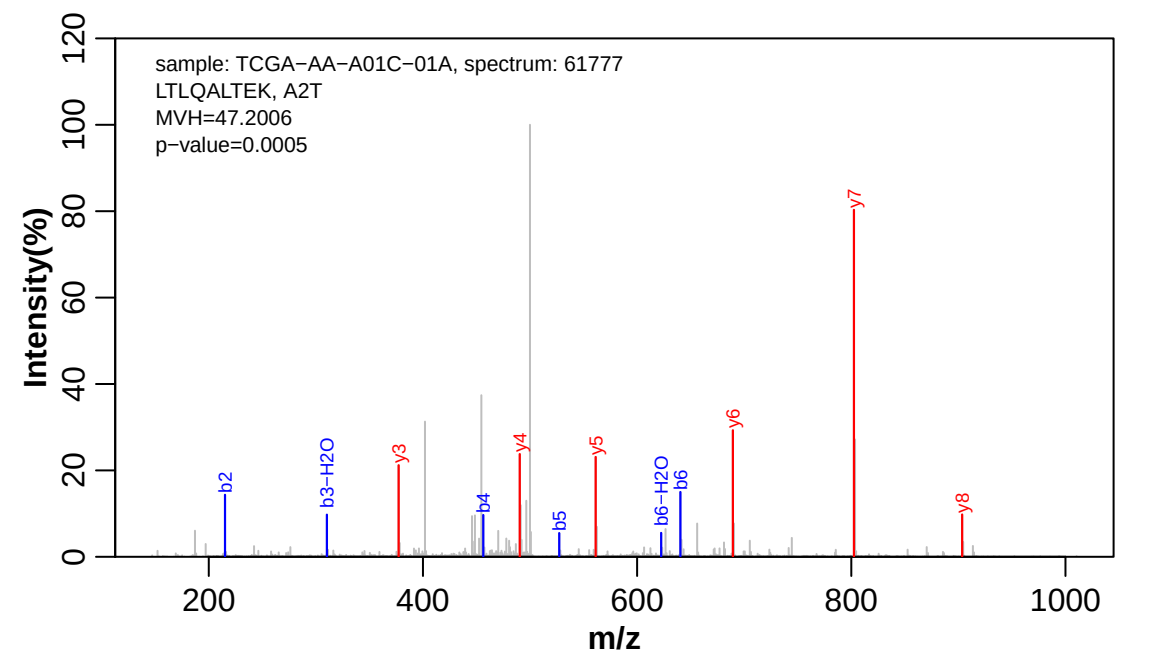

sample: TCGA−AA−A01C−01A, spectrum: 103354
LPAEPLTR, E3A
MVH=31.8754
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6−NH3
y6
y7

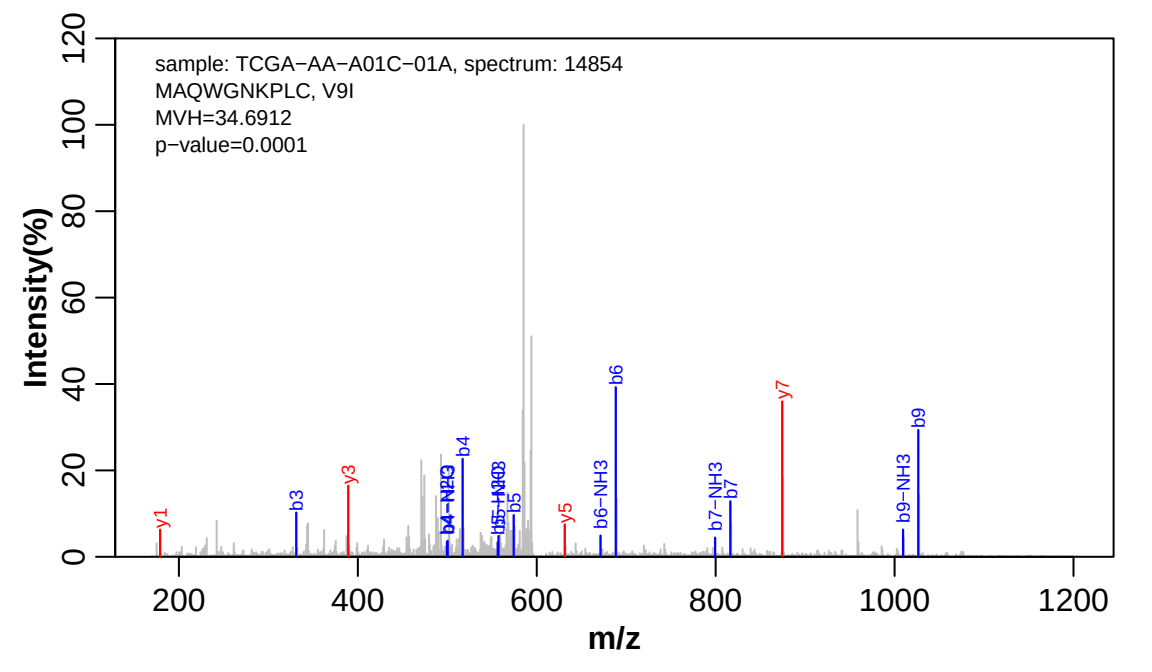

sample: TCGA−AA−A01C−01A, spectrum: 158130
LPQGLPTEENMSNTCLK, A7T
MVH=47.9394
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−NH3
b5
y6
y7
y8−NH3
y8
y9
y12
y14

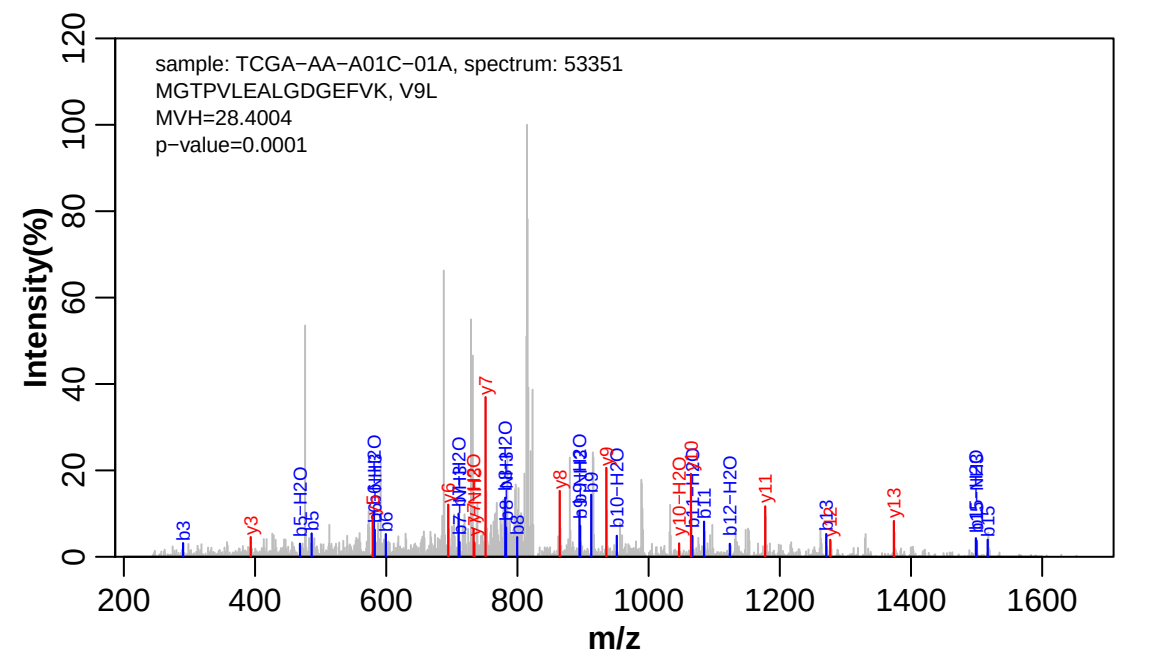

sample: TCGA−AA−A01C−01A, spectrum: 92672
LQELTPSSGDPGEHDPASTHK, P4L
MVH=51.3313
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b8++−H2O
y13+++−H2O
b4−H2O
b4
b14+++
b10++−H2O
y16+++−H2O
y16+++
y11++
y19++−H2O
y19+++
y13++
y14++
y15++
y16++

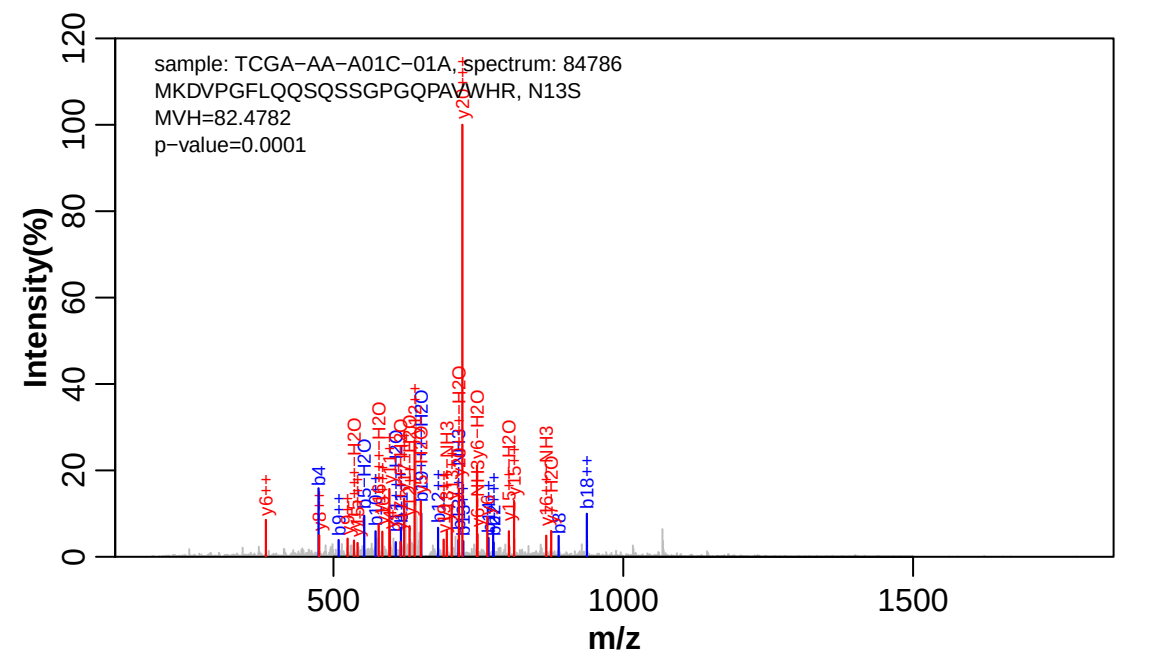

sample: TCGA−AA−A01C−01A, spectrum: 18478
LQPEDMFVYDLNEK, C9Y
MVH=38.0907
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b6
y6
b7−H2O
b7
b8
y8
y9
y10
b11
y12

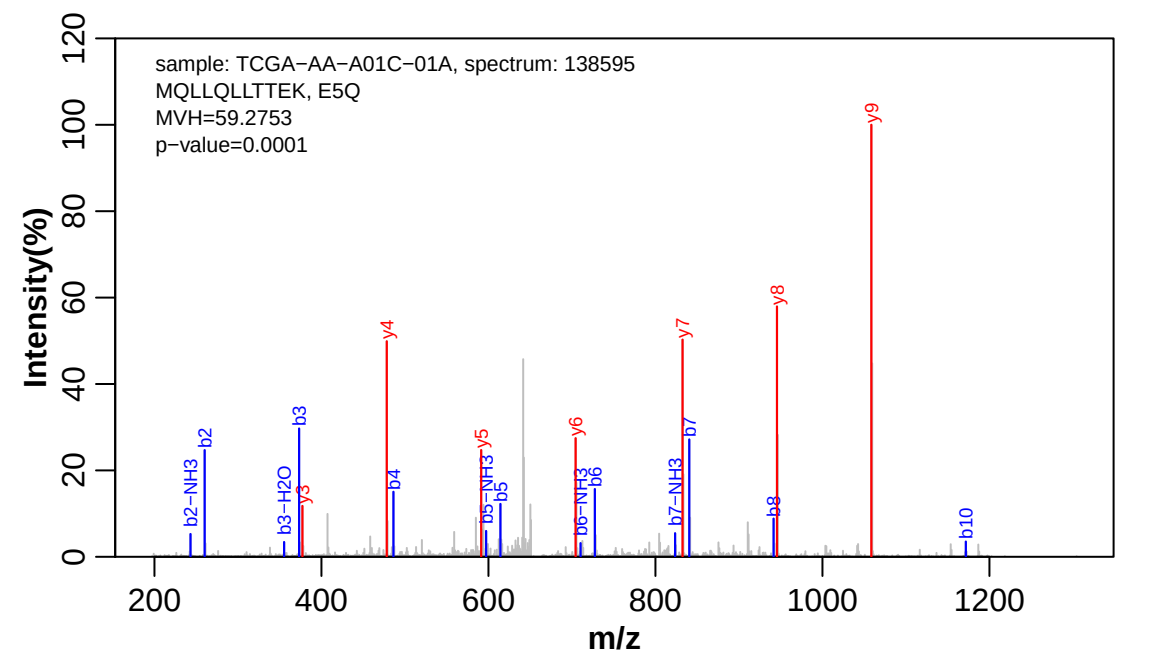

sample: TCGA−AA−A01C−01A, spectrum: 136212
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=49.3331
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y19++
y20++
y25++
y21++
y23++
y18++
y16++
y22++
y12++
y12
b5−NH3
b5
b12
b10

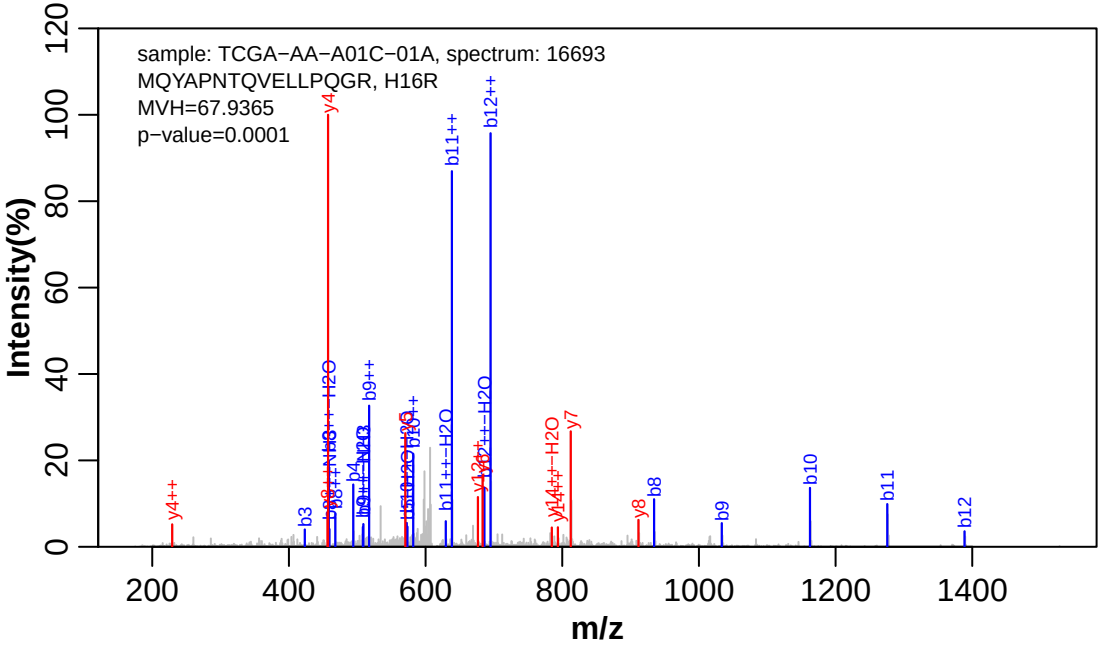

sample: TCGA−AA−A01C−01A, spectrum: 61777
LTLQALTEK, A2T
MVH=47.2006
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
y8

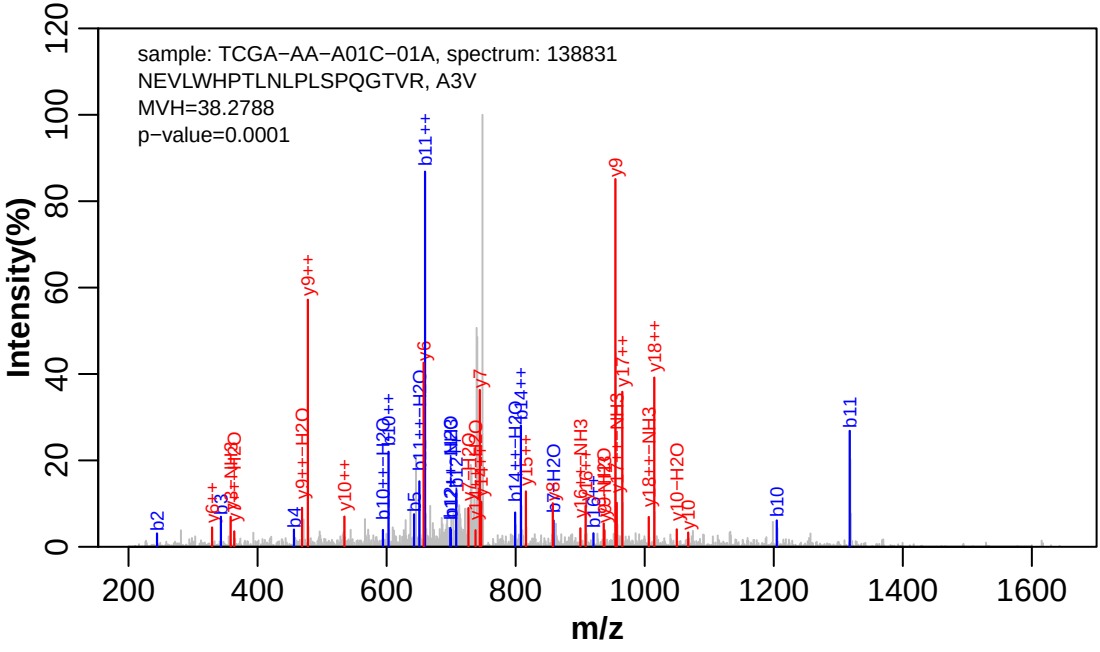

sample: TCGA−AA−A01C−01A, spectrum: 14854
MAQWGNKPLC, V9I
MVH=34.6912
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b3
y3
b4
b4−NH3
b5−H2O
b5
y5
b6
b6−NH3
b7−NH3
b7
y7
b9
b9−NH3

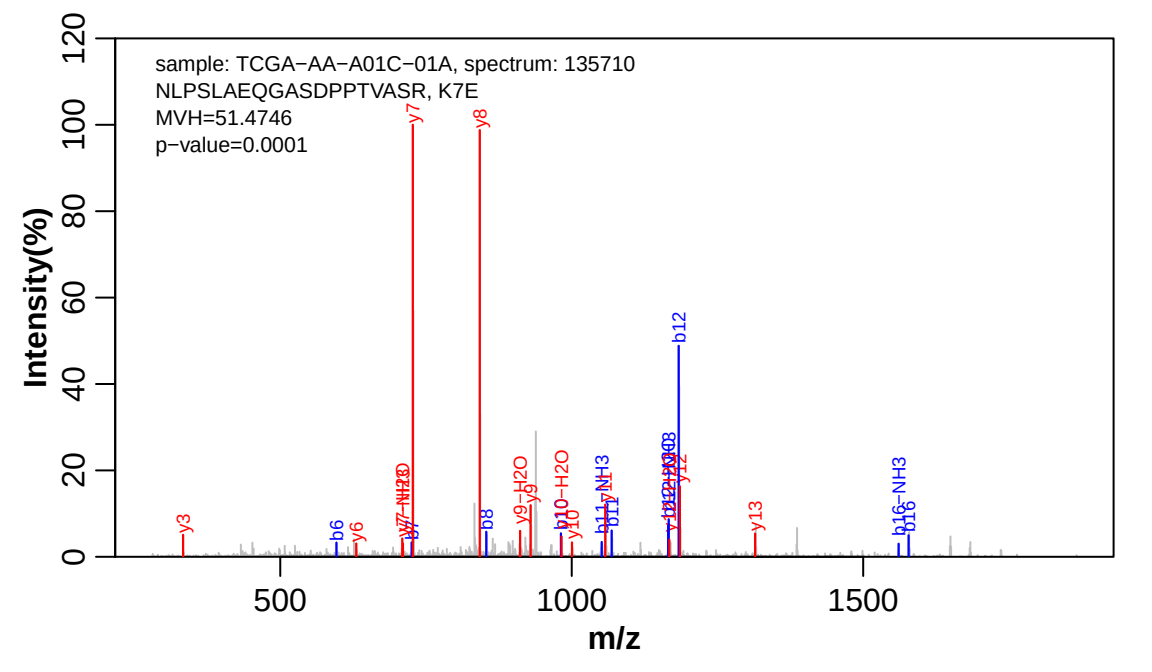

sample: TCGA−AA−A01C−01A, spectrum: 53351
MGTPVLEALGDGEFVK, V9L
MVH=28.4004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b5−H2O
b5
y8
b10−H2O
y10−H2O
b12−H2O
y11
y13
y7

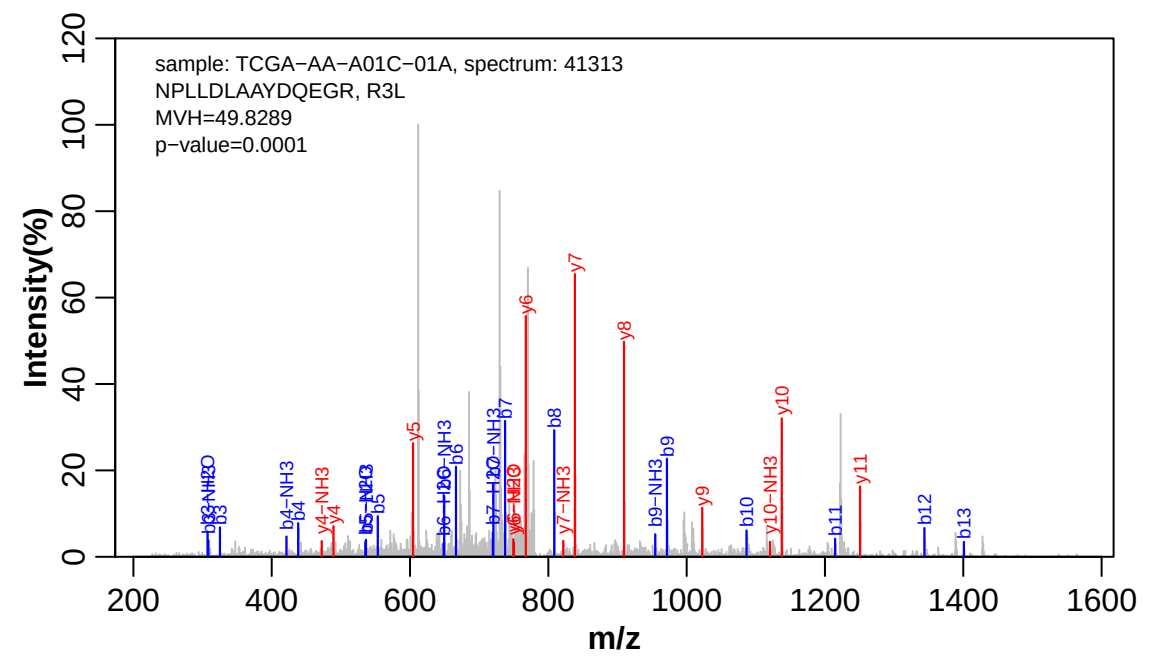

sample: TCGA−AA−A01C−01A, spectrum: 84786
MKDVPGFLQQSQSSGPGQPAVAWHR, N13S
MVH=82.4782
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2++
y6++
y8++
b4
b8++
b18++
y6++−H2O
y6++−NH3
y15++−H2O
y15++−NH3
b8++−H2O
b8++−NH3
y6++−H2O−NH3
b8++−H2O−NH3

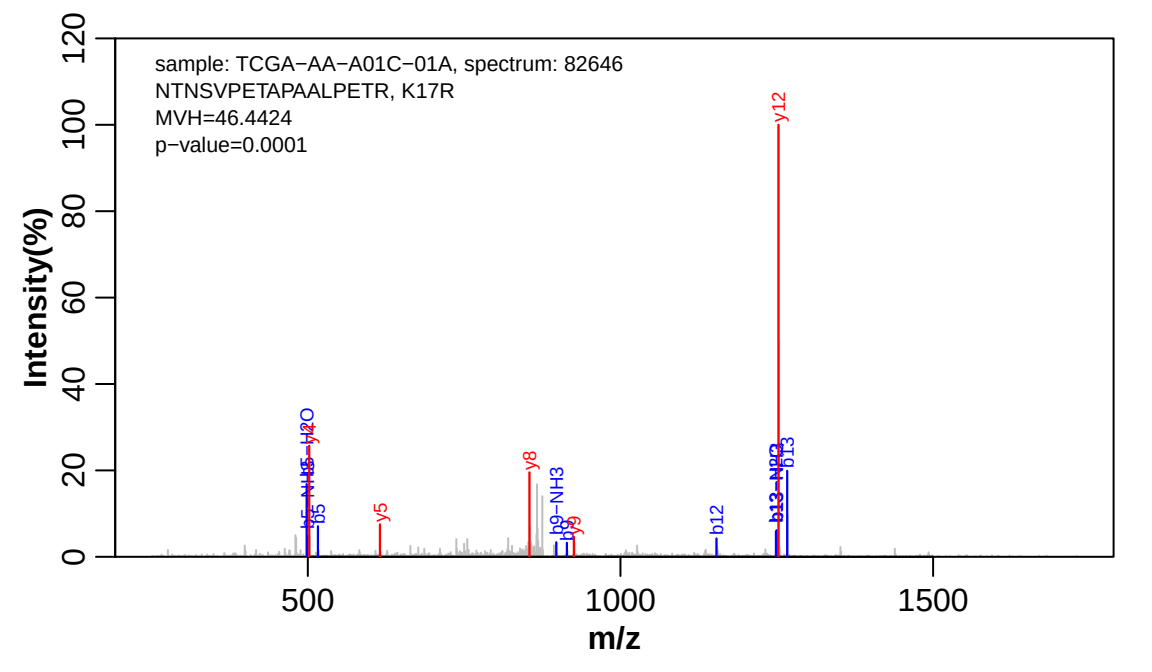

sample: TCGA−AA−A01C−01A, spectrum: 138595
MQLLQLLTTEK, E5Q
MVH=59.2753
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
b3−H2O
b3
y3
y4
b4
y5
b5−NH3
b5
y6
b6−NH3
b6
b7−NH3
y7
b7
b8
y8
y9
b10

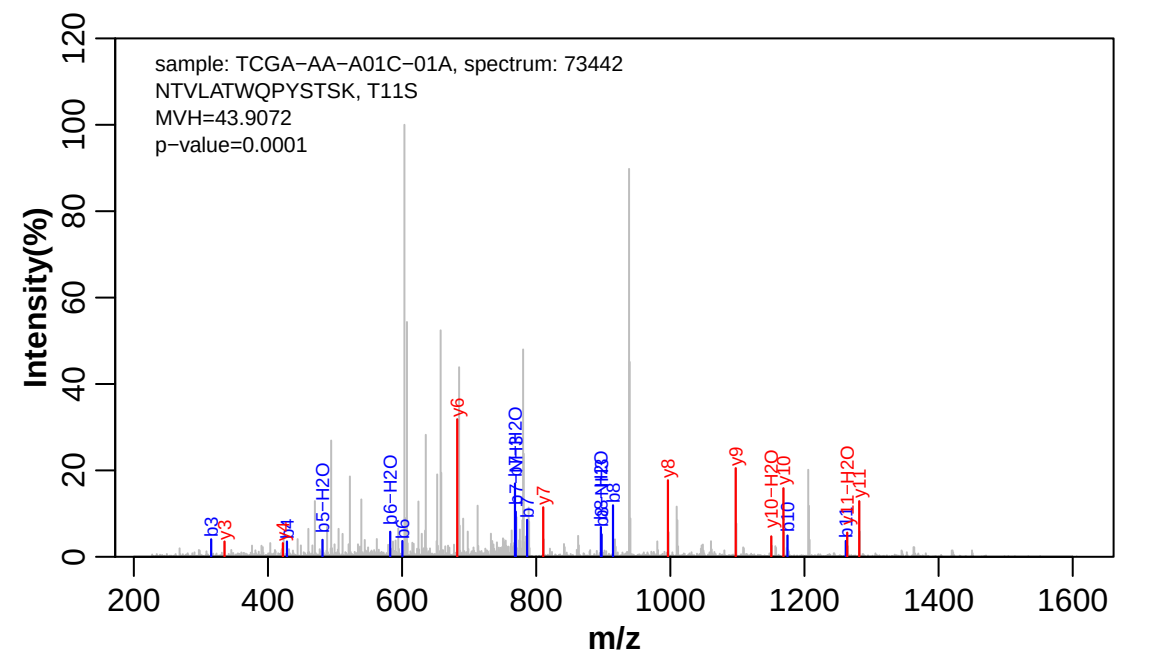

sample: TCGA−AA−A01C−01A, spectrum: 16693
MQYAPNTQVELLPQGR, H16R
MVH=67.9365
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4++
b3
y4
b8++−NH3
b8++−H2O
b4
b9++−H2O
b9++
b10++
b11++−H2O
b11++
b12++
y12++
b12++−H2O
y14++−H2O
y7
y8
b8
b9
b10
b11
b12

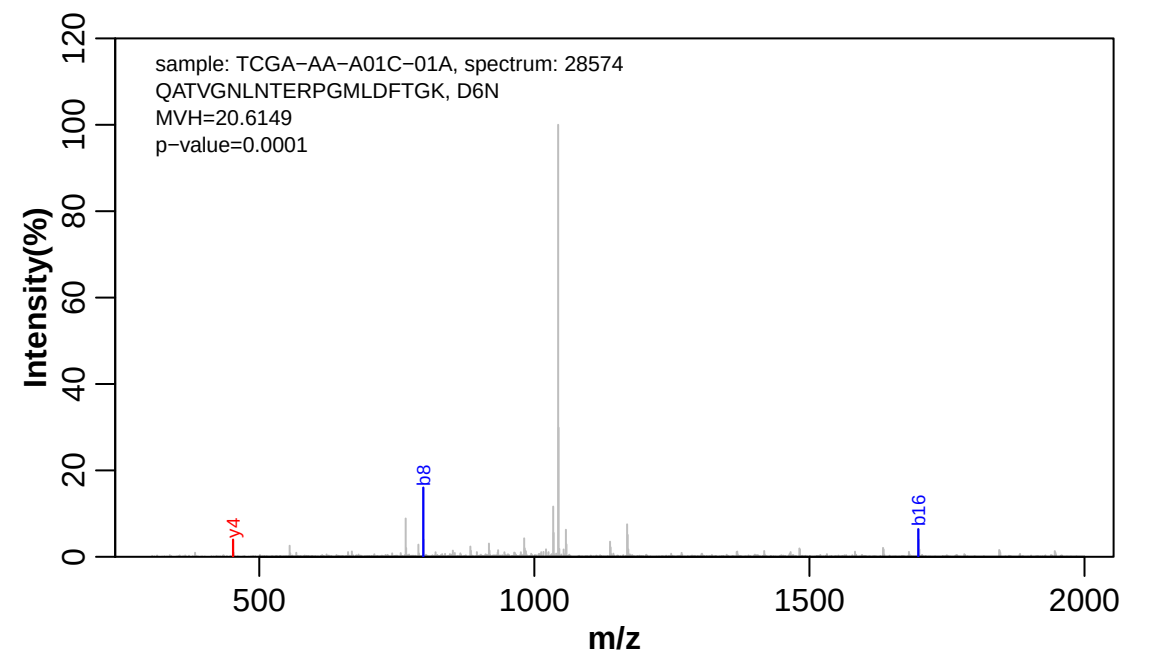

sample: TCGA−AA−A01C−01A, spectrum: 138831
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=38.2788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y6++
b3++
y3++−NH3
y3++−H2O
b4
y9++−H2O
y9++
y10++
b10++−H2O
b10++
b5
b11++−H2O
y6
b11++
y7
b12++−NH3
b12++
y12++−H2O
b14++−H2O
y15++
b14++
b7−H2O
y16++−NH3
b16++
y8++−NH3
y8++
y17++−NH3
y17++
y9
y18++−NH3
y18++
y10−H2O
y10
b10
b11

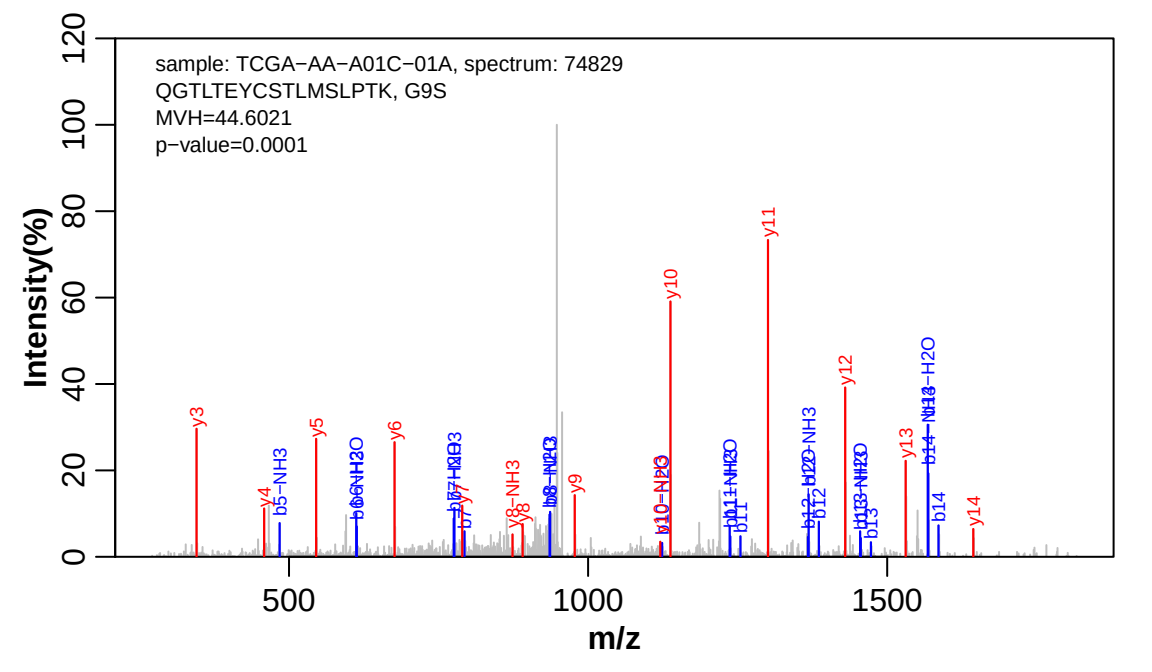

sample: TCGA−AA−A01C−01A, spectrum: 135710
NLPSLAEQGASDPPTVASR, K7E
MVH=51.4746
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y8
y3
b6
y6
b8
y9
y9−H2O
b10−H2O
y10
b11−NH3
b12
y13
b16−NH3
b16

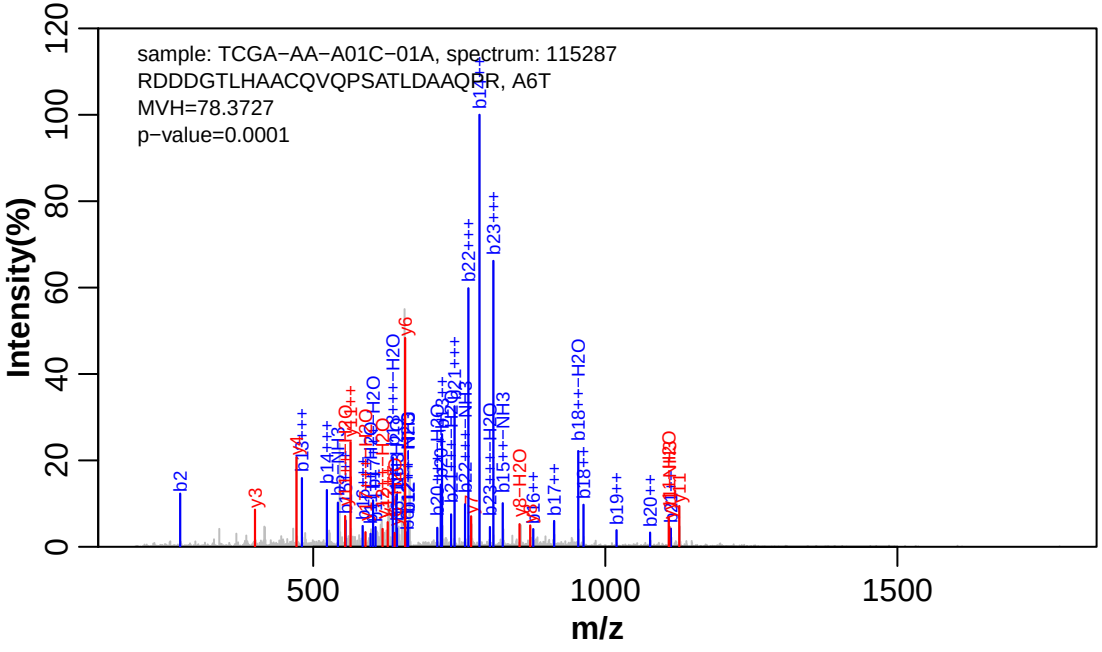

sample: TCGA−AA−A01C−01A, spectrum: 41313
NPLLDLAAYDQEGR, R3L
MVH=49.8289
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4−NH3
y4−NH3
y5
y6
y7
y8
b8
y7−NH3
b9
b9−NH3
y9
y10
y10−NH3
b10
b11
y11
b12
b13

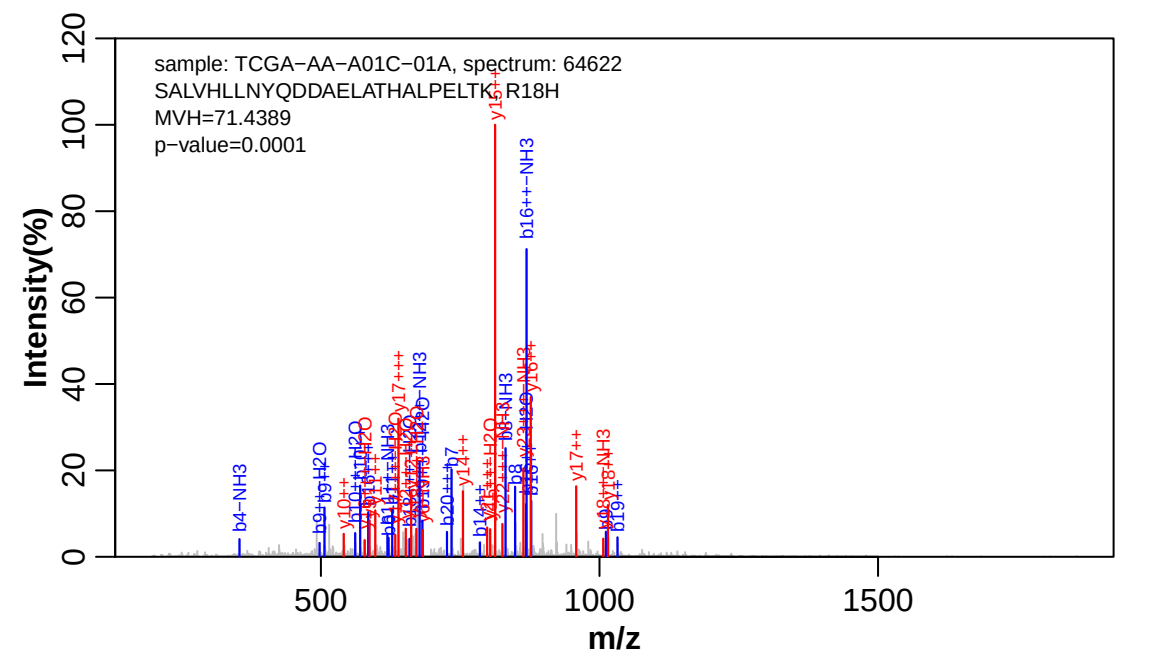

sample: TCGA−AA−A01C−01A, spectrum: 82646
NTNSVPETAPAALPETR, K17R
MVH=46.4424
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b5
b12
b13
b13−NH3
b9−NH3
y9
b9
y4
b5−H2O

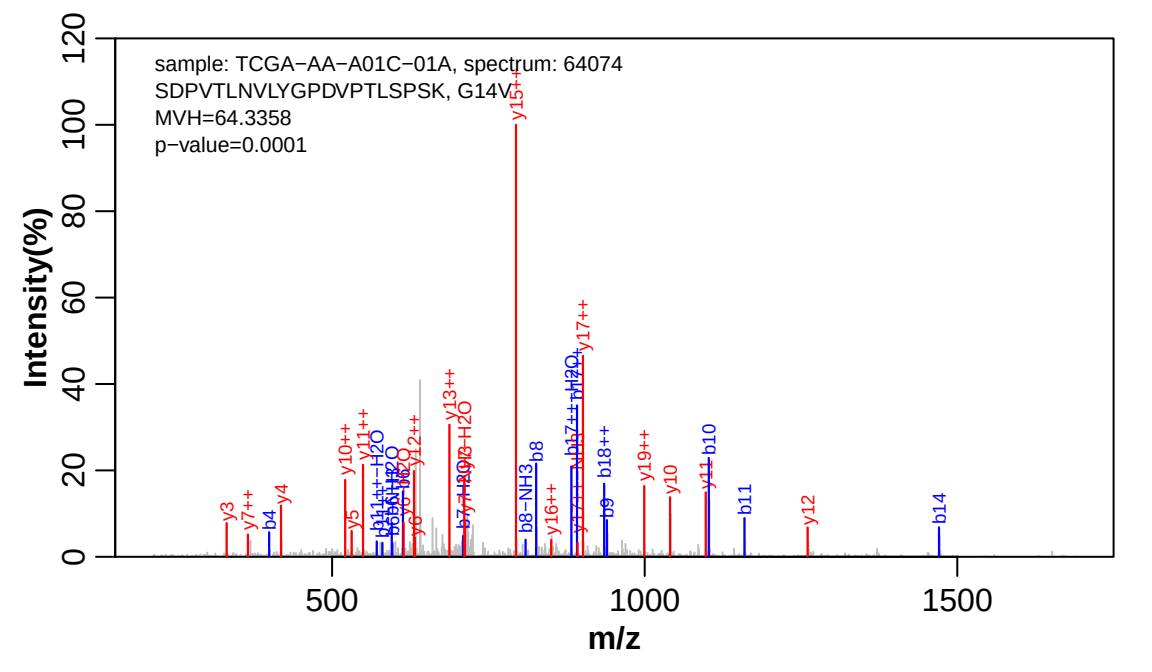

sample: TCGA−AA−A01C−01A, spectrum: 73442
NTVLATWQPYSTSK, T11S
MVH=43.9072
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
y4
b5−H2O
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9
y10−H2O
y10
b10
b11−H2O
y11

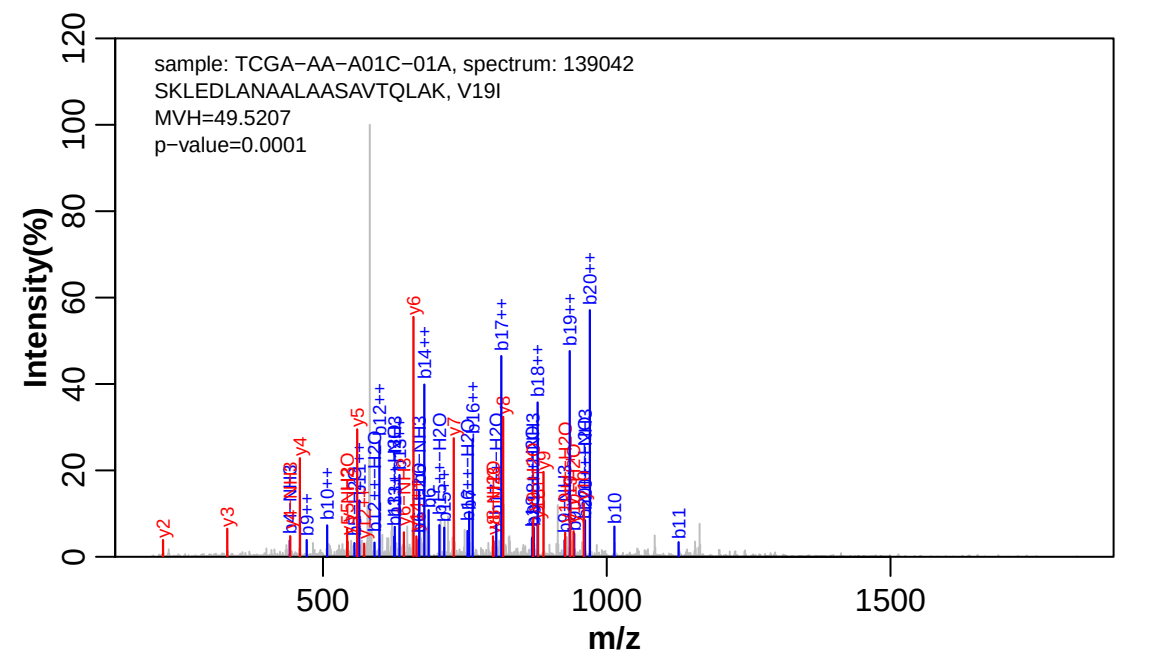

sample: TCGA−AA−A01C−01A, spectrum: 28574
QATVGNLNTERPGMLDFTGK, D6N
MVH=20.6149
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
y4
b8
b16
500
1000
1500
2000
m/z

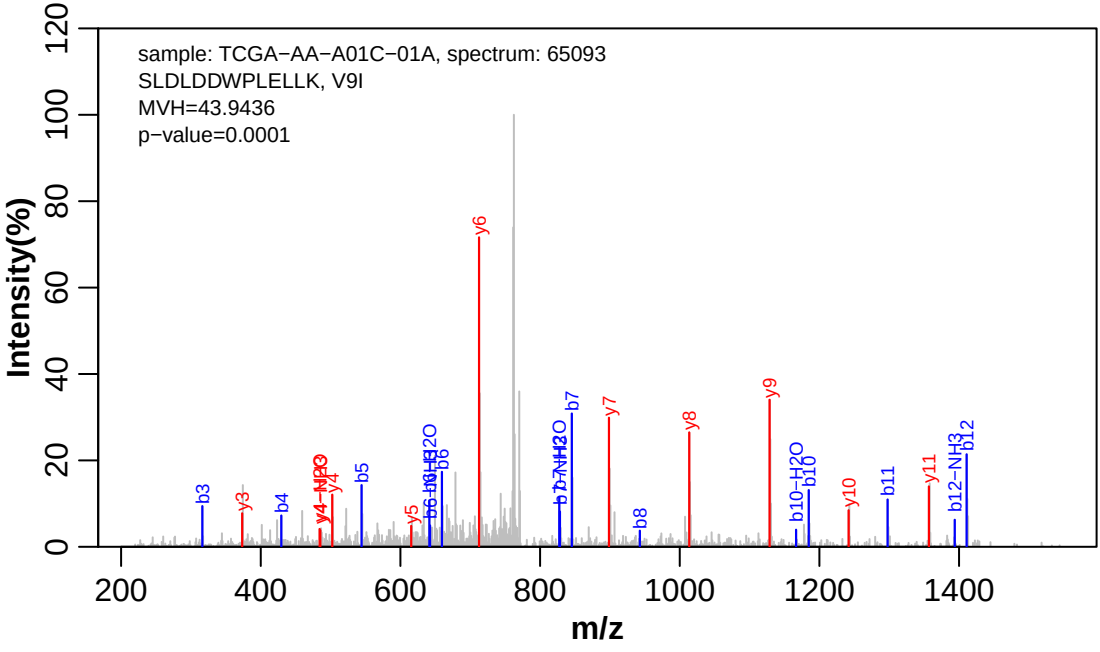

sample: TCGA−AA−A01C−01A, spectrum: 74829
QGTLTEYCSTLMSLPTK, G9S
MVH=44.6021
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b5−NH3
y5
y6
y7
y8−NH3
y8
y9
y10
y11
y12
b12−NH3
y13
b14−H2O
b14
y14

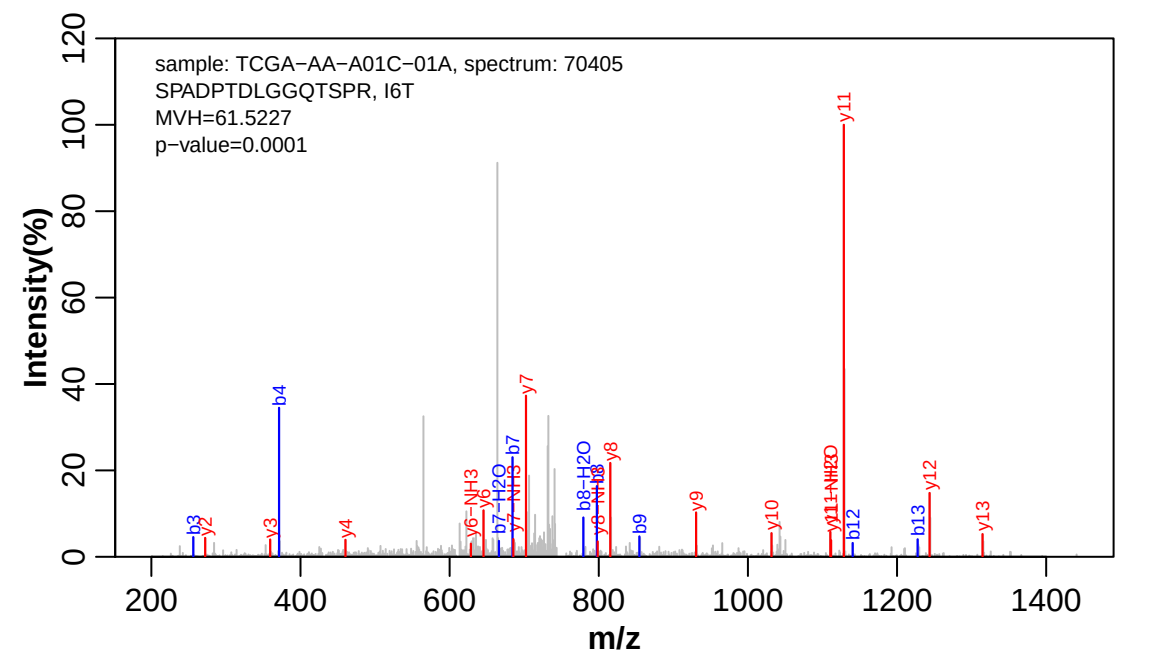

sample: TCGA−AA−A01C−01A, spectrum: 115287
RDDDGTLHAACQVQPSATLDAAQTR, A6T
MVH=78.3727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y4
b18++
b14+++
y6
b22+++
b23+++
b15++−NH3
b18++−H2O
b17++
b19++
b20++
y11

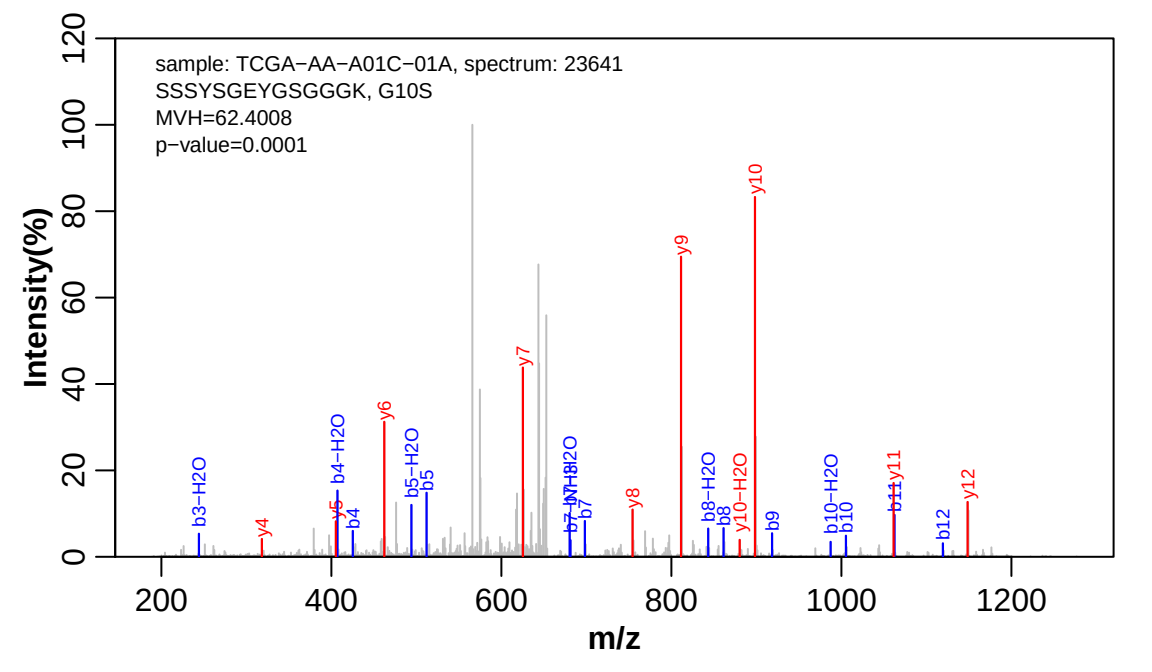

sample: TCGA−AA−A01C−01A, spectrum: 64622
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=71.4389
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−NH3
b9+−H2O
b9+−NH3
y10++
y10++−H2O
y10++−NH3
y15+++
y17+++
b16++−NH3
b20++−H2O
b20++−NH3
b20++
y14++
b14++
b8++−H2O
b8++−NH3
b8
y17++
b19++

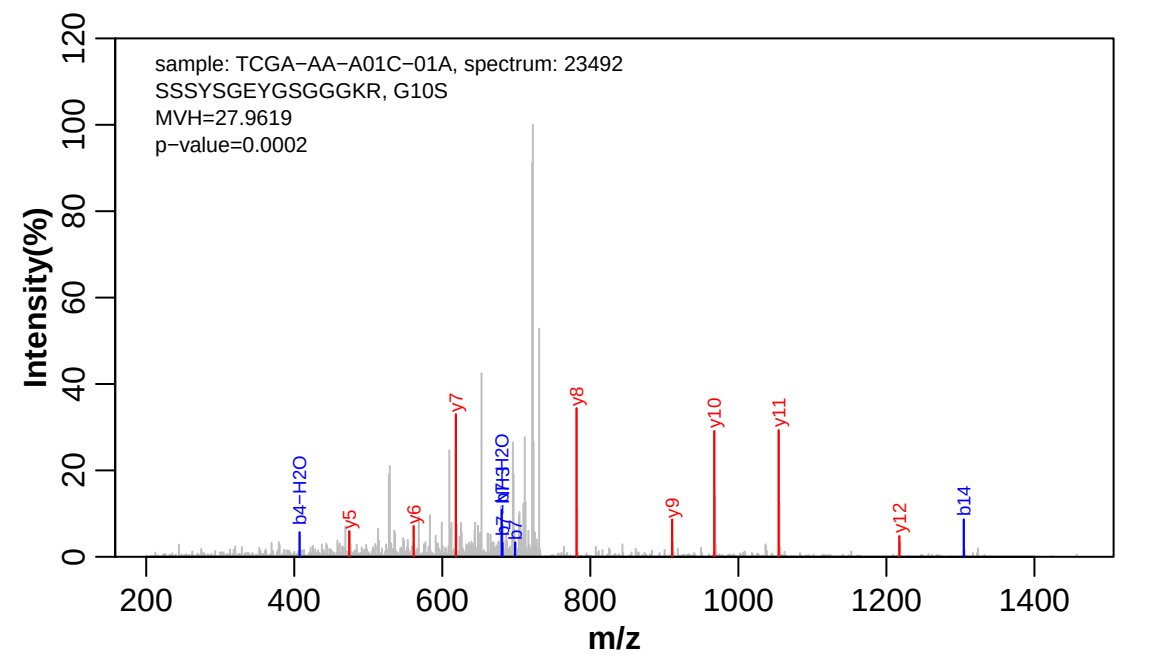

sample: TCGA−AA−A01C−01A, spectrum: 64074
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=64.3358
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y3
y7++
b4
y4
y10++
y5
y11++
y12++
y13++
b8−NH3
b8
y16++
b18++
y19++
y10
y11
b10
b11
y12
b14
y17++

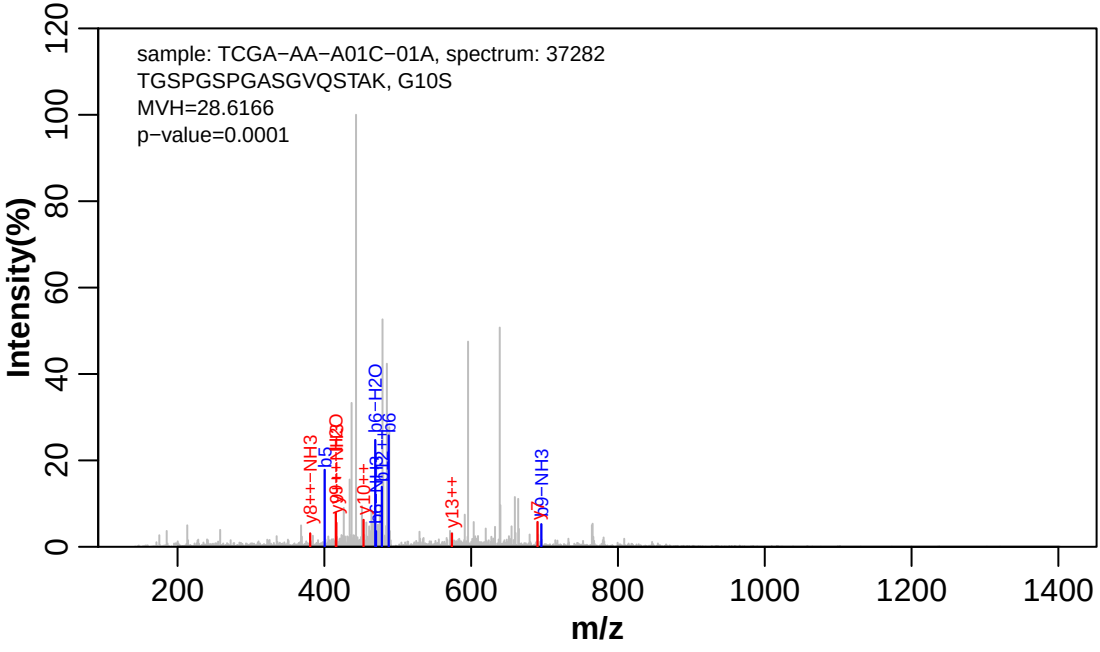

sample: TCGA−AA−A01C−01A, spectrum: 139042
SKLEDLANAALAASAVTQLAK, V19I
MVH=49.5207
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4−NH3
y4
b9++
b10++
y5
y5−NH3
b12++−H2O
b12++
y6
b14++
y7
b16++
b17++
y8
b18++
b19++
b20++
b10
b11

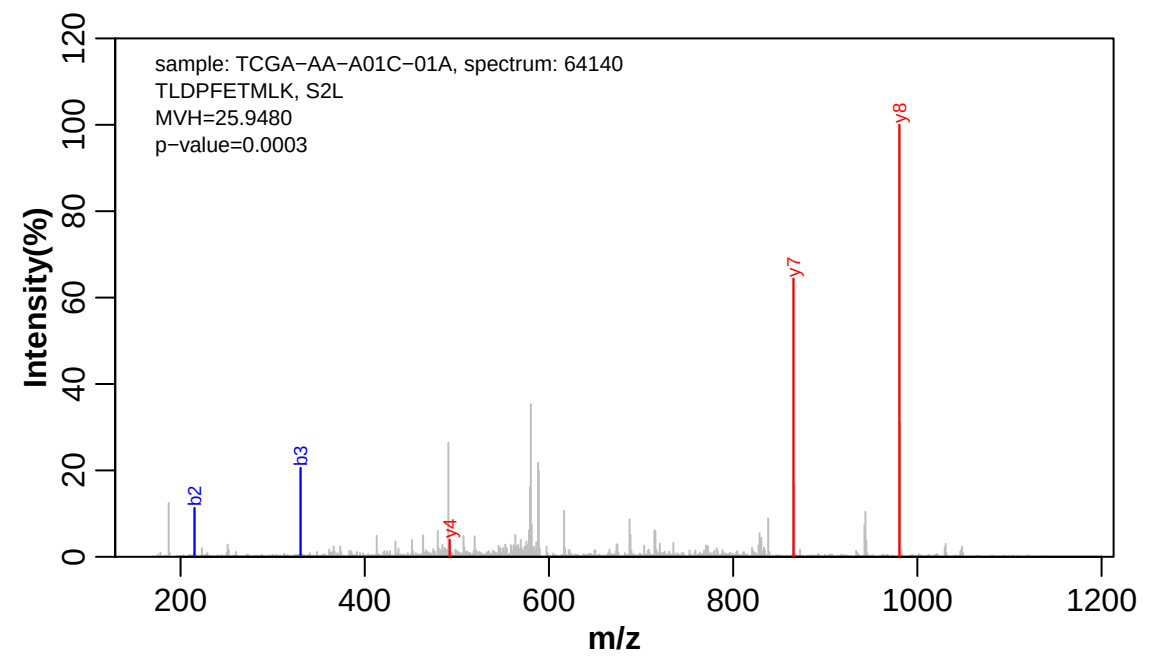

sample: TCGA−AA−A01C−01A, spectrum: 65093
SLDLDDWPLELLK, V9I
MVH=43.9436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
y4
b5
y5
b6
y6
b7
y7
b8
y8
y9
b10
y10
b11
y11
b12
b12−NH3

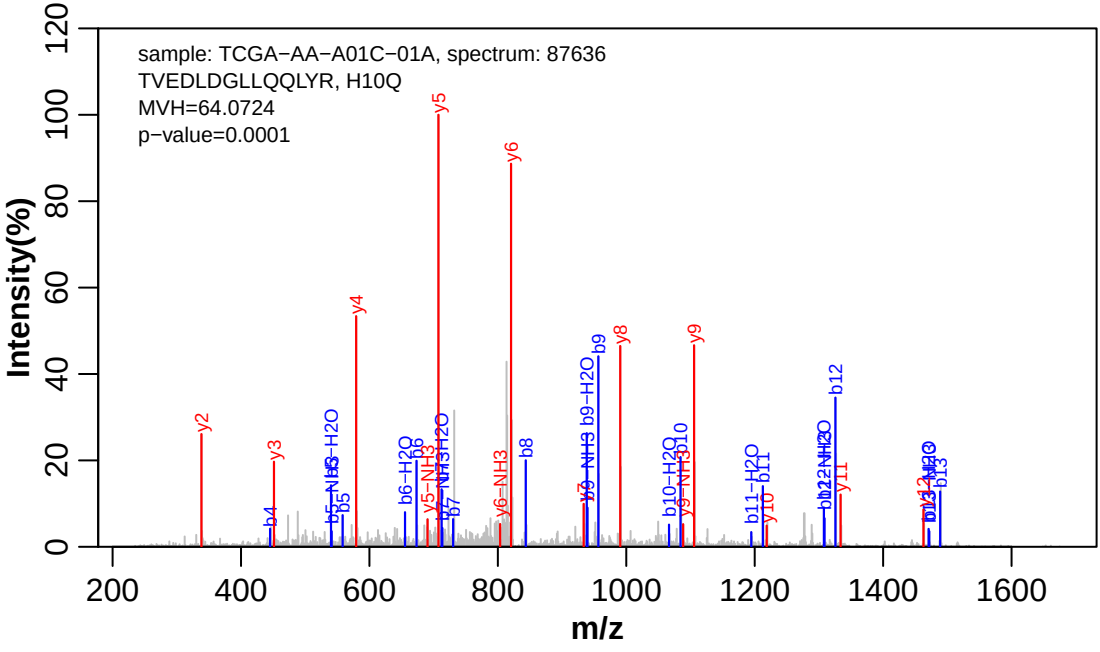

sample: TCGA−AA−A01C−01A, spectrum: 70405
SPADPTDLGGQTSPR, I6T
MVH=61.5227
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y6−NH3
y6
b7−H2O
b7−NH3
b7
y7
b8−H2O
b8−NH3
y8
y9
b9
y10
y11−NH2O
y11−H2O
y11
b12
b13
y12
y13

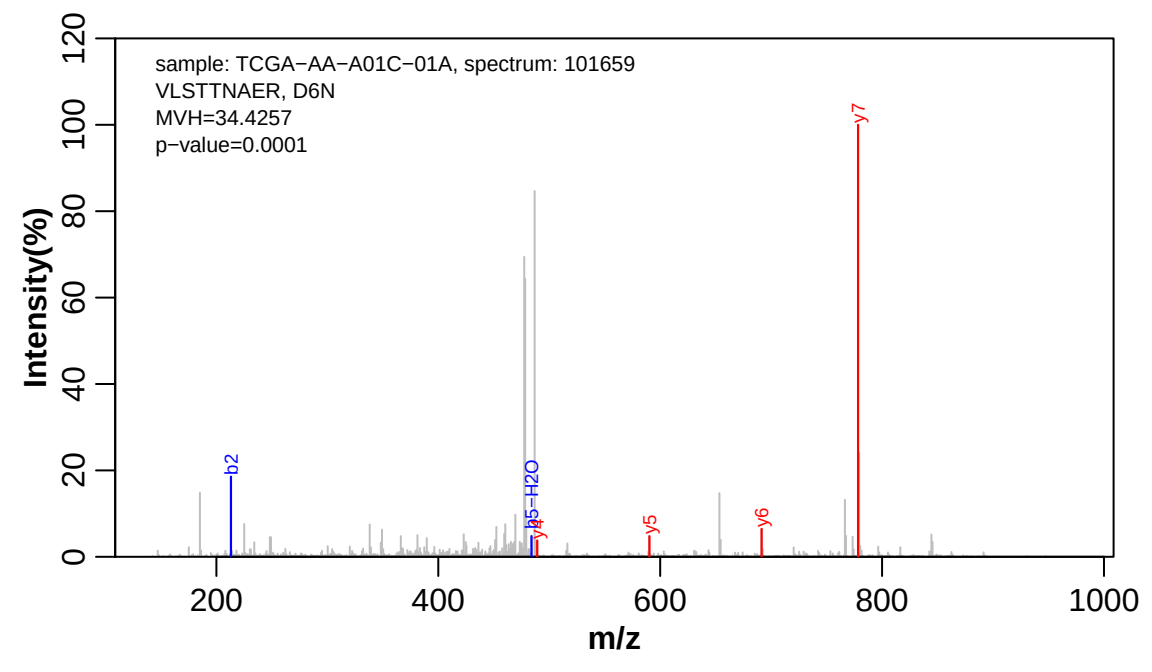

sample: TCGA−AA−A01C−01A, spectrum: 23641
SSSYSGEYGSGGGK, G10S
MVH=62.4008
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
y7
b7−NH3
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10
b9
b10−H2O
b10
b11
y11
b12
y12

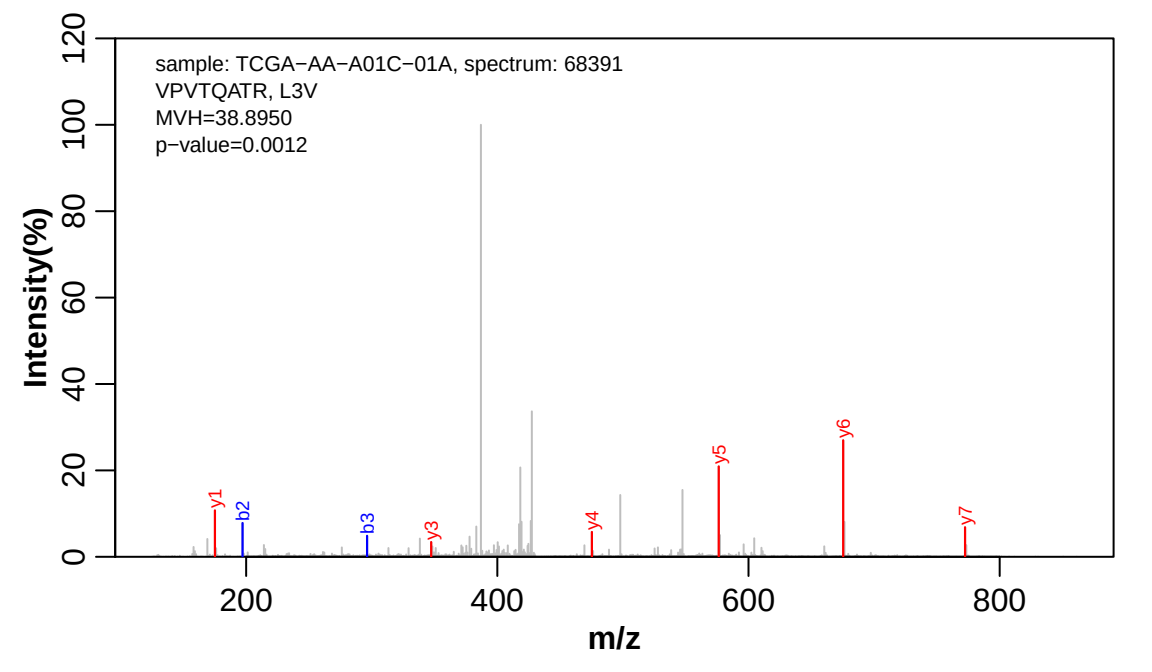

sample: TCGA−AA−A01C−01A, spectrum: 23492
SSSYSGEYGSGGGKR, G10S
MVH=27.9619
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−H2O
y5
y6
y7
b7−NH3
b7−H2O
b7
y8
y9
y10
y11
y12
b14

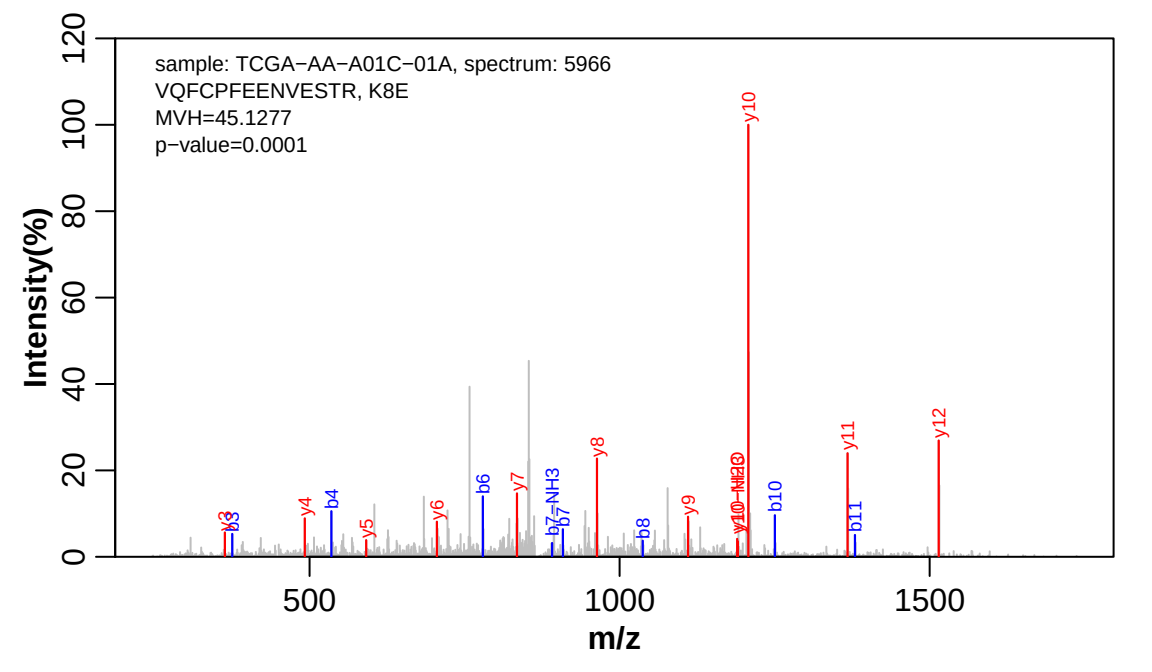

sample: TCGA−AA−A01C−01A, spectrum: 37282
TGSPGSPGASGVQSTAK, G10S
MVH=28.6166
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y8++−NH3
b5
y9++−NH3
y9++−H2O
y10++
b6−H2O
b6
y13++
y9−NH3

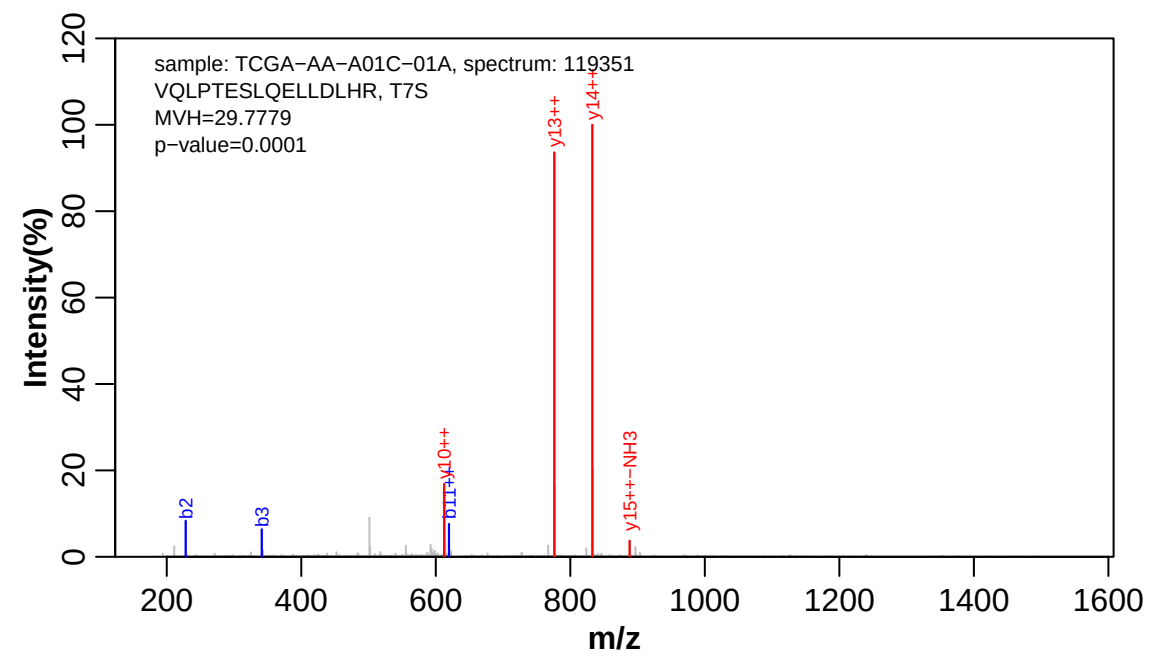

sample: TCGA−AA−A01C−01A, spectrum: 64140
TLDPFETMLK, S2L
MVH=25.9480
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y7
y8

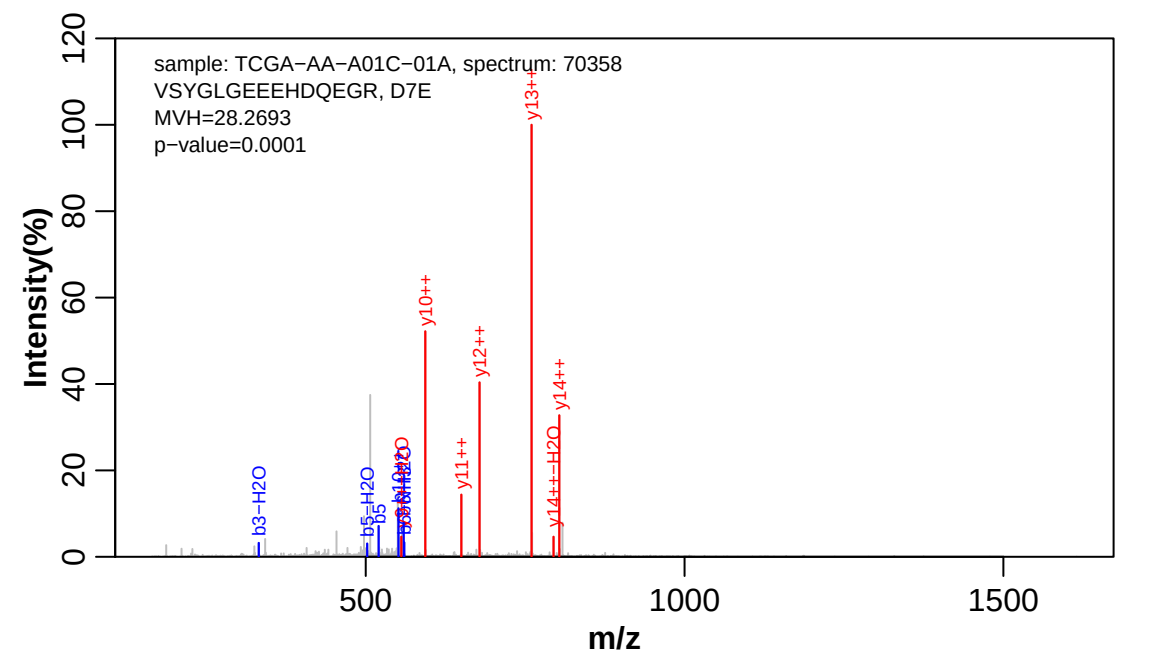

sample: TCGA−AA−A01C−01A, spectrum: 87636
TVEDLDGLLQQLYR, H10Q
MVH=64.0724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
y9
b9
b12
b8
b4
b5
b6−H2O
b5−H2O
b10−H2O
b11−H2O
b13
y11
y10
y9−NH3
y6−NH3

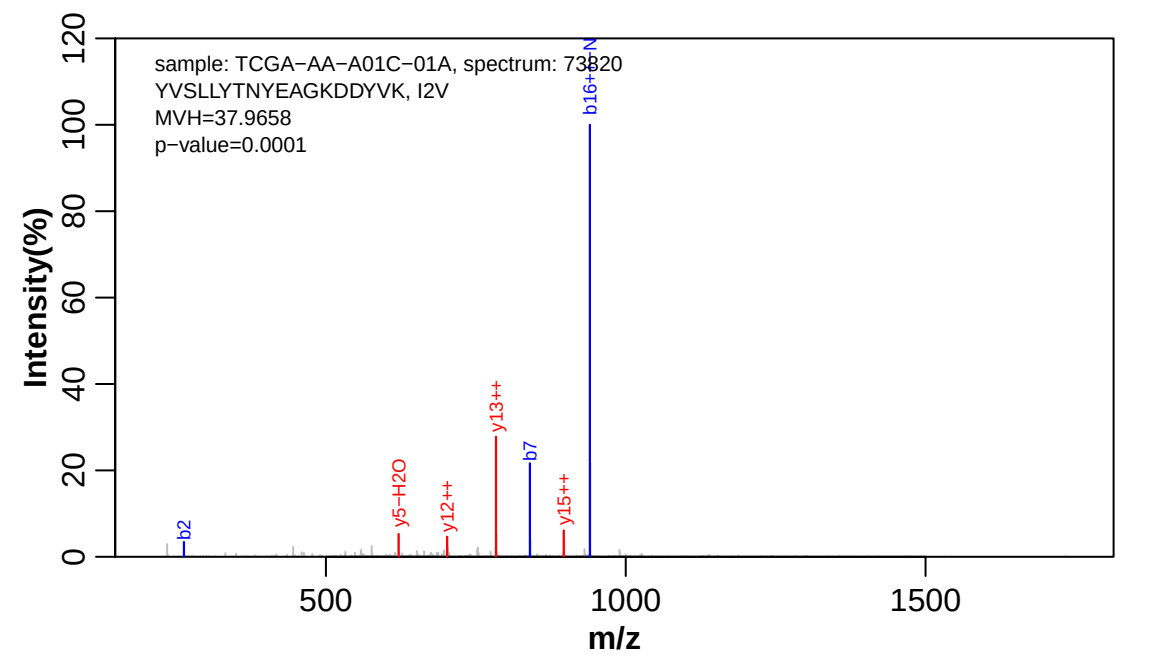

sample: TCGA−AA−A01C−01A, spectrum: 101659
VLSTTNAER, D6N
MVH=34.4257
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b5−H2O
y4
y5
y6
y7

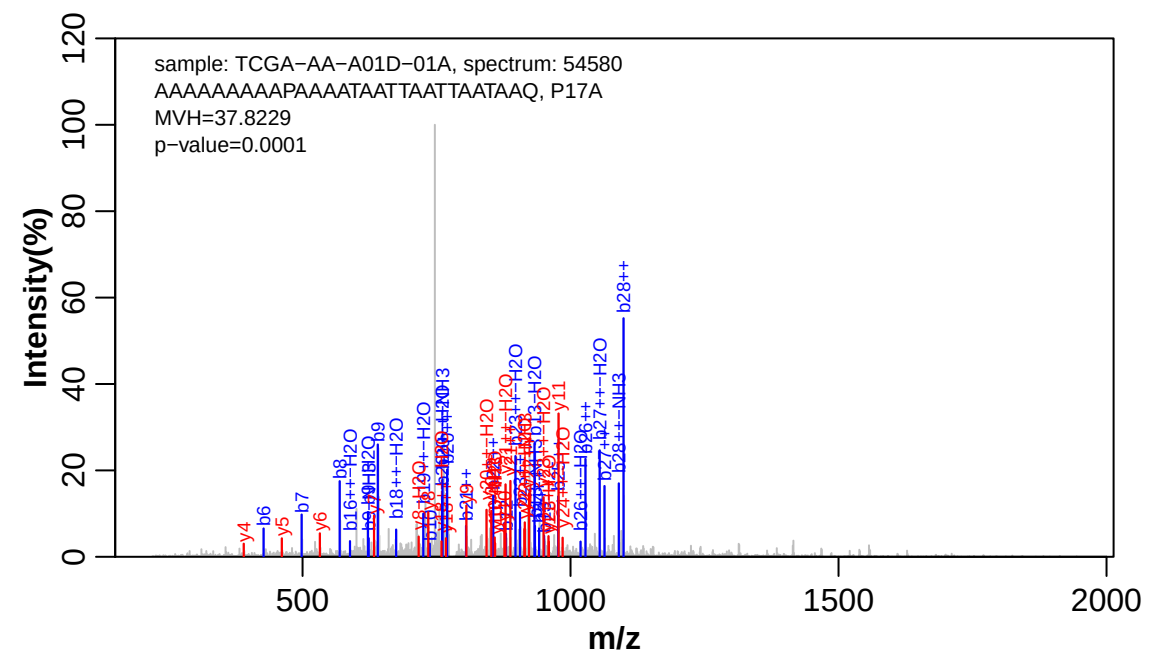

sample: TCGA−AA−A01C−01A, spectrum: 68391
VPVTQATR, L3V
MVH=38.8950
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

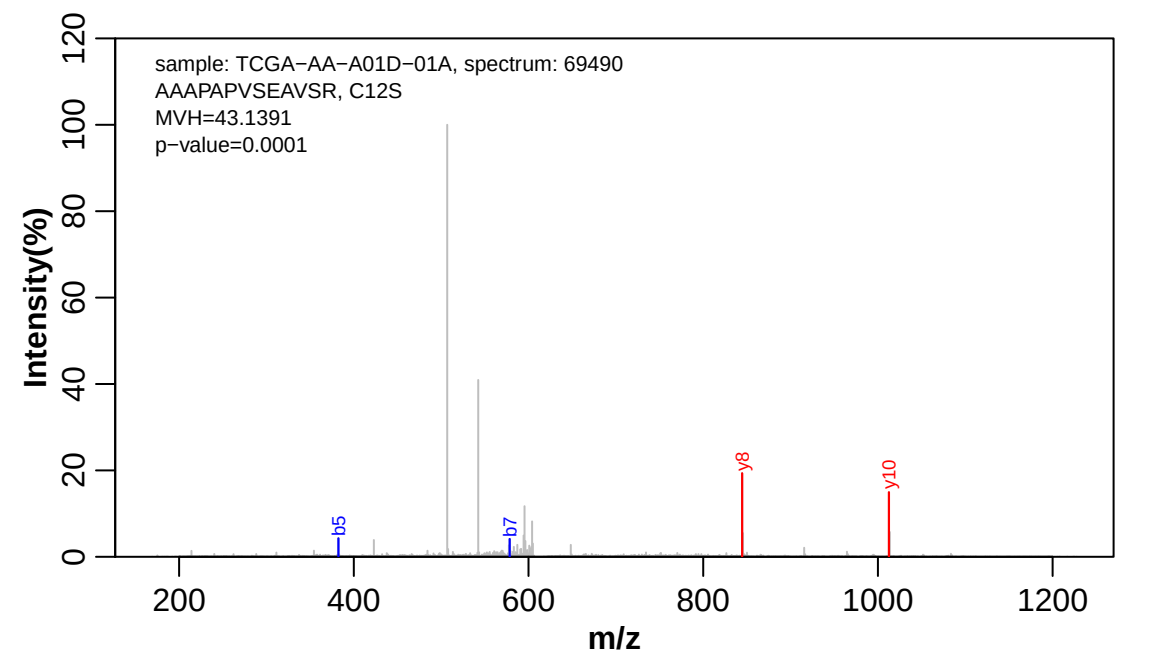

sample: TCGA−AA−A01C−01A, spectrum: 5966
VQFCPFEENVESTR, K8E
MVH=45.1277
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y11
y12
y8
y9
y7
y6
y5
y4
y3
b3
b4
b6
b7−NH3
b7
b8
b10
b11

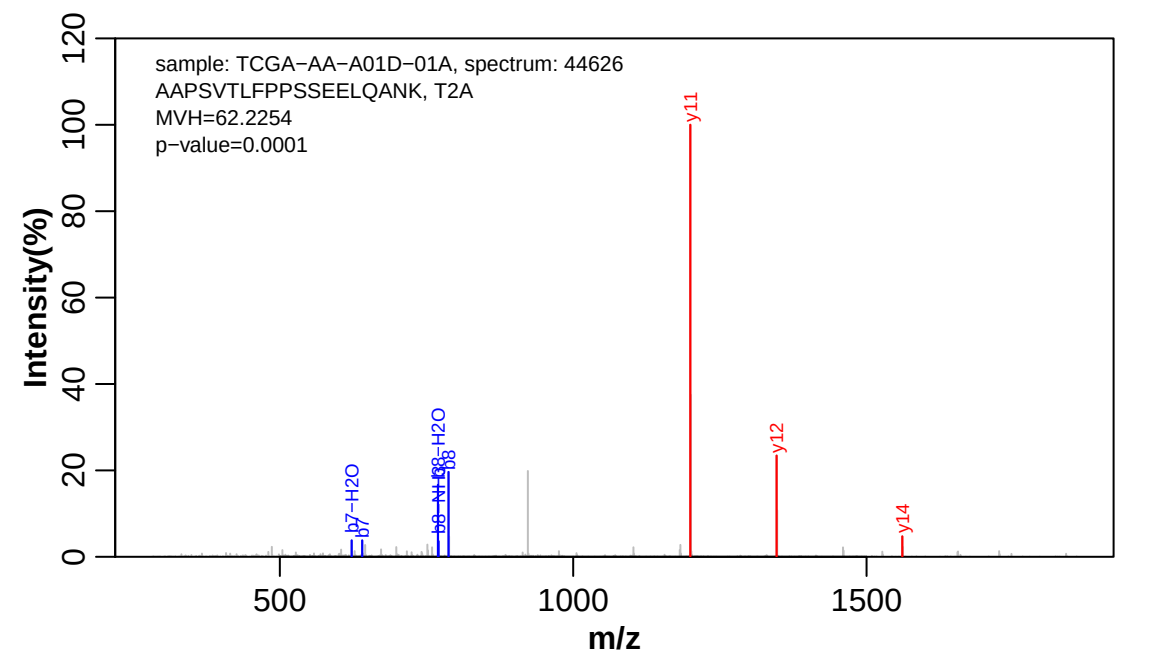

sample: TCGA−AA−A01C−01A, spectrum: 119351
VQLPTESLQELLDLHR, T7S
MVH=29.7779
p−value=0.0001
y13++
y14++
y10++
b11++
b2
b3
y15++−NH3
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

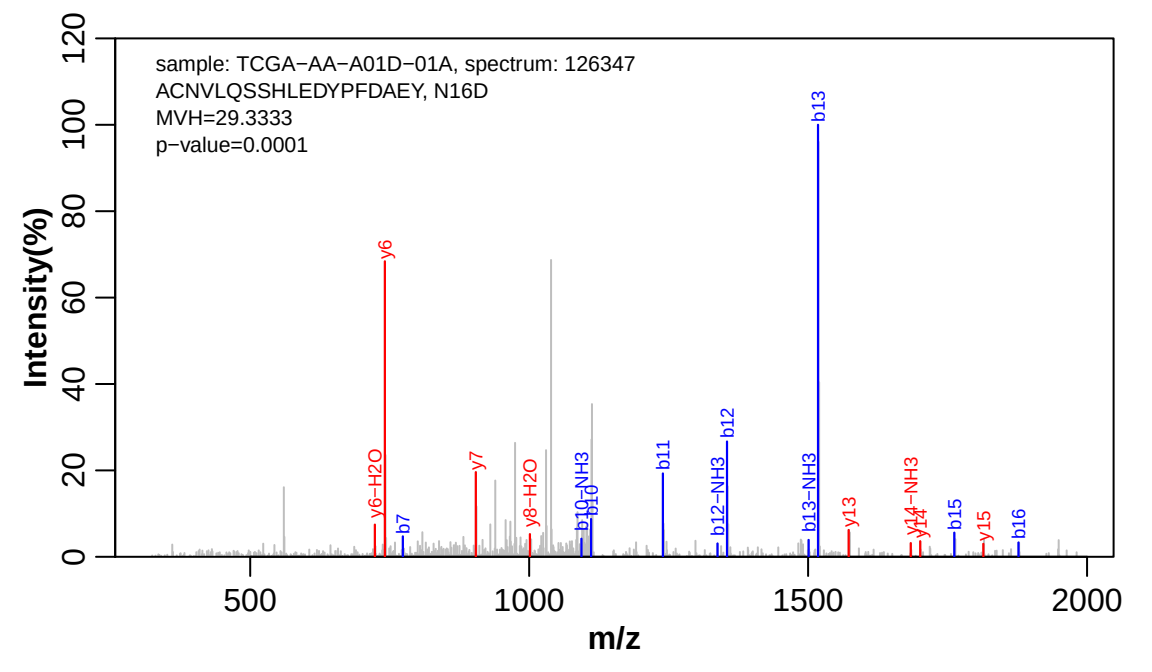

sample: TCGA−AA−A01C−01A, spectrum: 70358
VSYGLGEEEHDQEGR, D7E
MVH=28.2693
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b5−H2O
b5
y10++
y11++
y12++
y13++
y14++
y14++−H2O

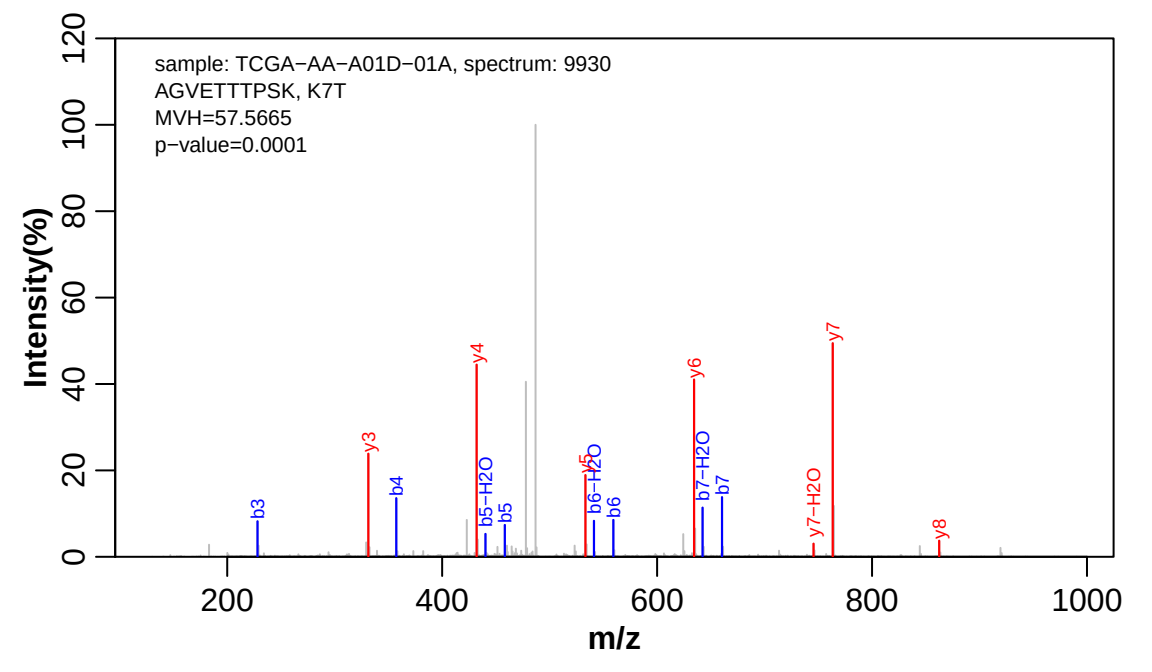

sample: TCGA−AA−A01C−01A, spectrum: 73820
YVSLLYTNYEAGKDDYVK, I2V
MVH=37.9658
p−value=0.0001
b16+-N
y13++
b7
y15++
y5−H2O
y12++
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

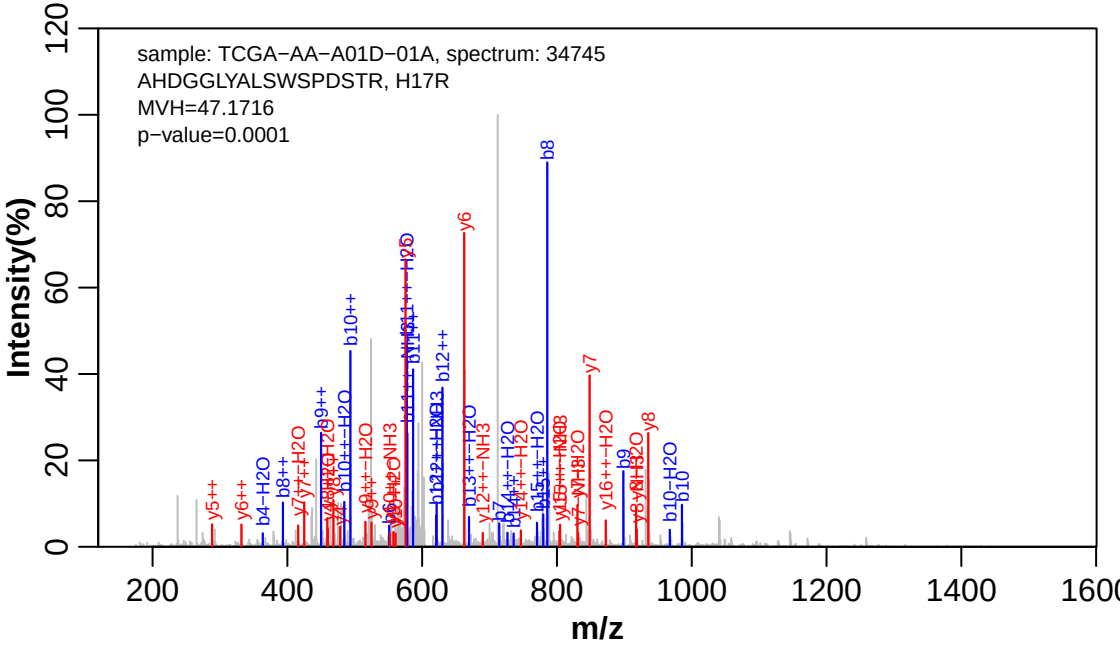

sample: TCGA−AA−A01D−01A, spectrum: 54580
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.8229
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b6
y5
b7
y6
b8
b16++−H2O
b9
b18++−H2O
b28++
b27++−H2O
b27++−NH3
y11

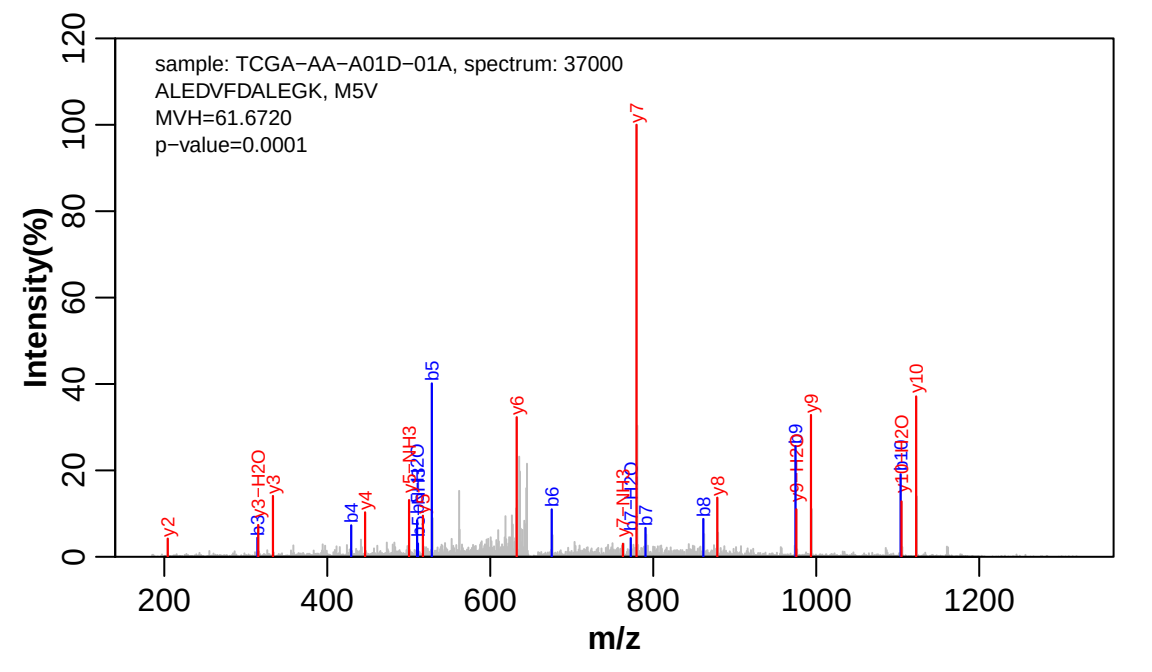

sample: TCGA−AA−A01D−01A, spectrum: 69490
AAAPAPVSEAVSR, C12S
MVH=43.1391
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10

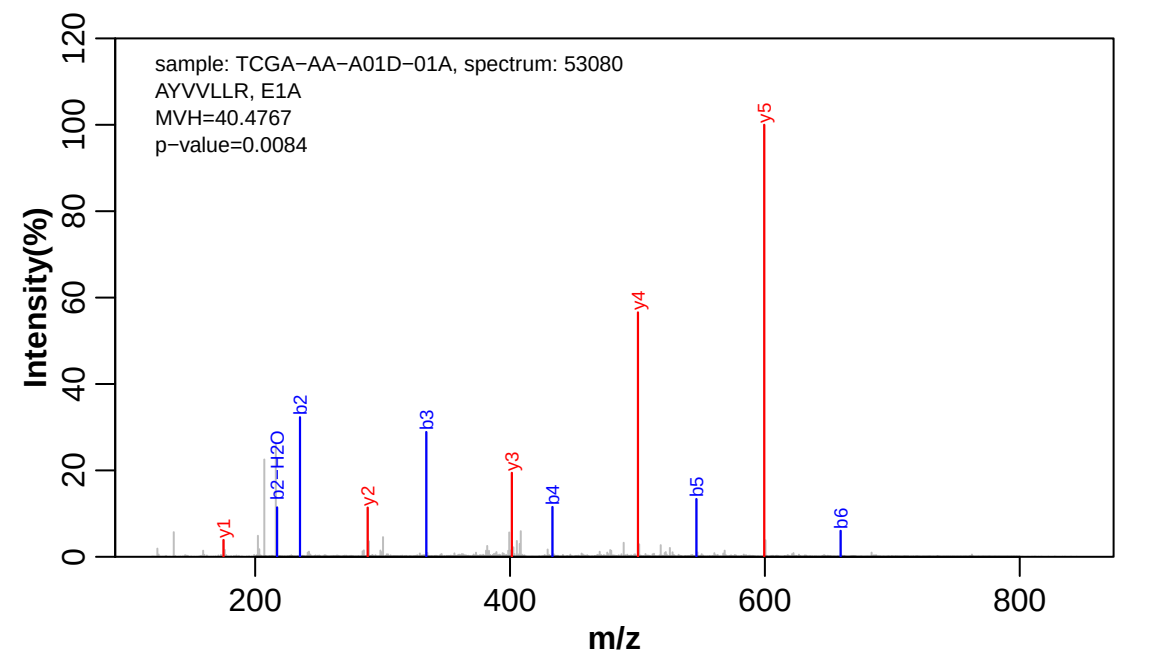

sample: TCGA−AA−A01D−01A, spectrum: 44626
AAPSVTLFPPSSEELQANK, T2A
MVH=62.2254
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

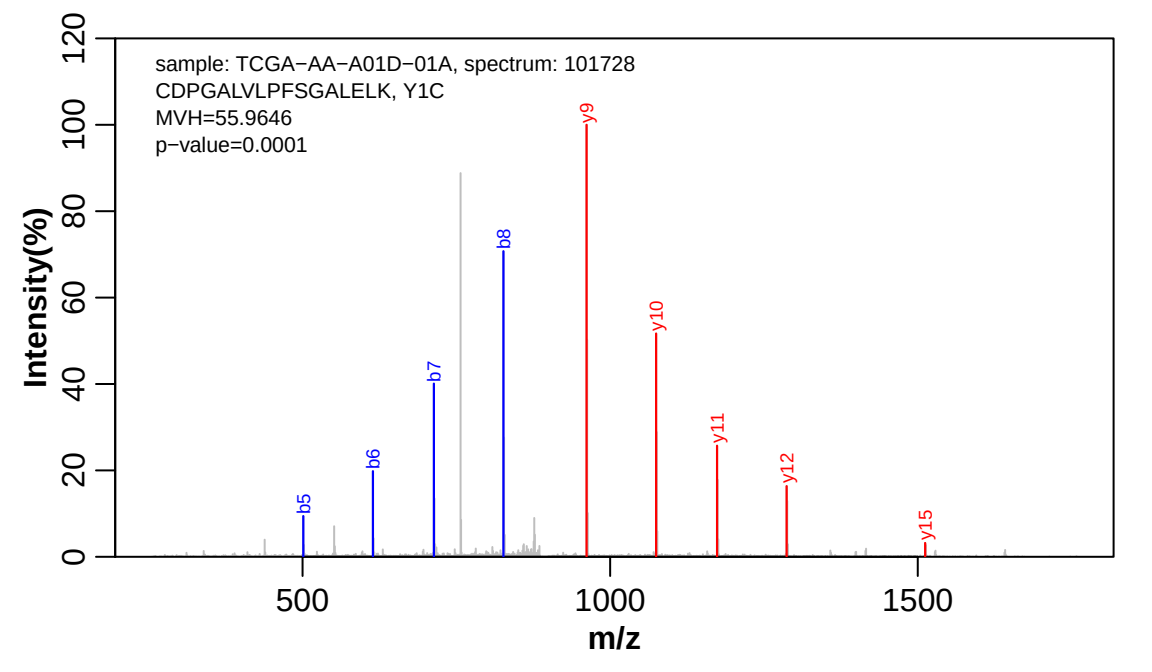

sample: TCGA−AA−A01D−01A, spectrum: 126347
ACNVLQSSHLEDYPFDAEY, N16D
MVH=29.3333
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y6
y6−H2O
b7
y7
y8−H2O
b10−NH3
b10
b11
b12
b12−NH3
b13
b13−NH3
y13
y14−NH3
y14
b15
y15
b16

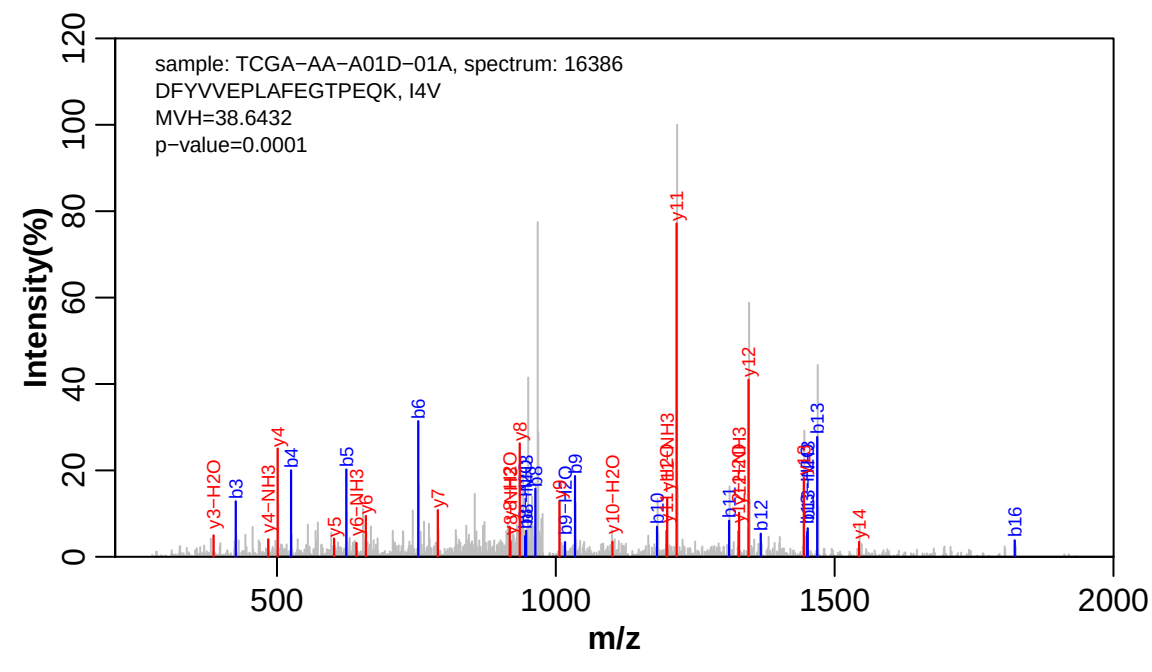

sample: TCGA−AA−A01D−01A, spectrum: 9930
AGVETTTPSK, K7T
MVH=57.5665
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y7−H2O
y8

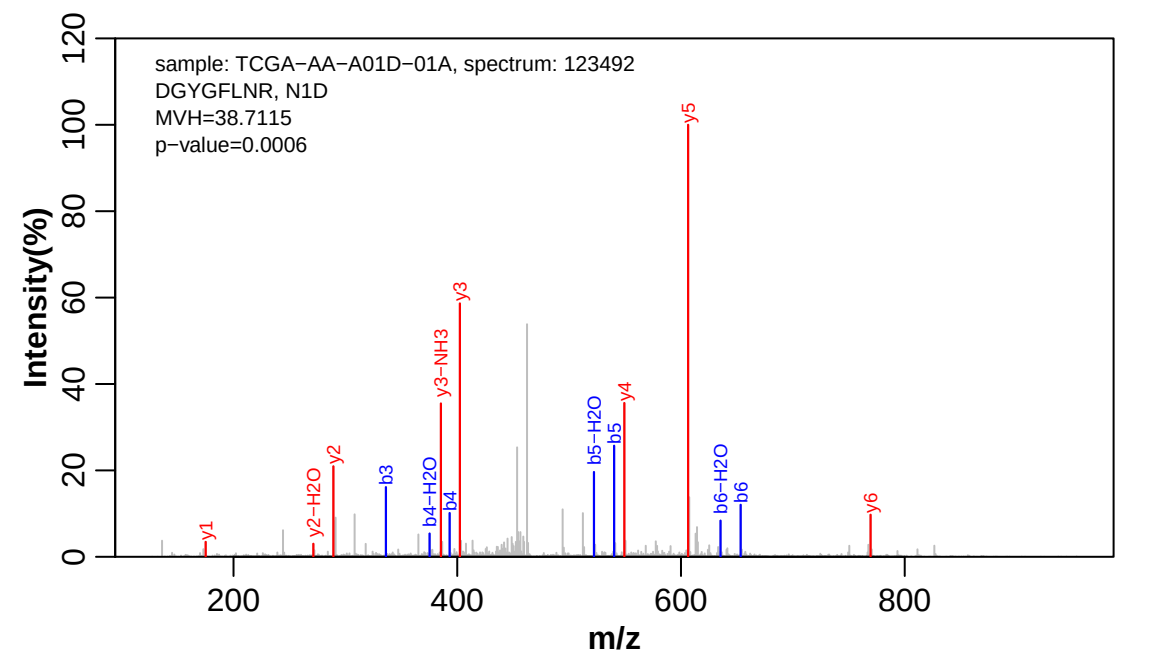

sample: TCGA−AA−A01D−01A, spectrum: 34745
AHDGGLYALSWSPDSTR, H17R
MVH=47.1716
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b8
y6
b10++
b12++
y7
y5++
y6++
b4−H2O
b8++
b10++−H2O
y16++−H2O
y8
b10−H2O
b10

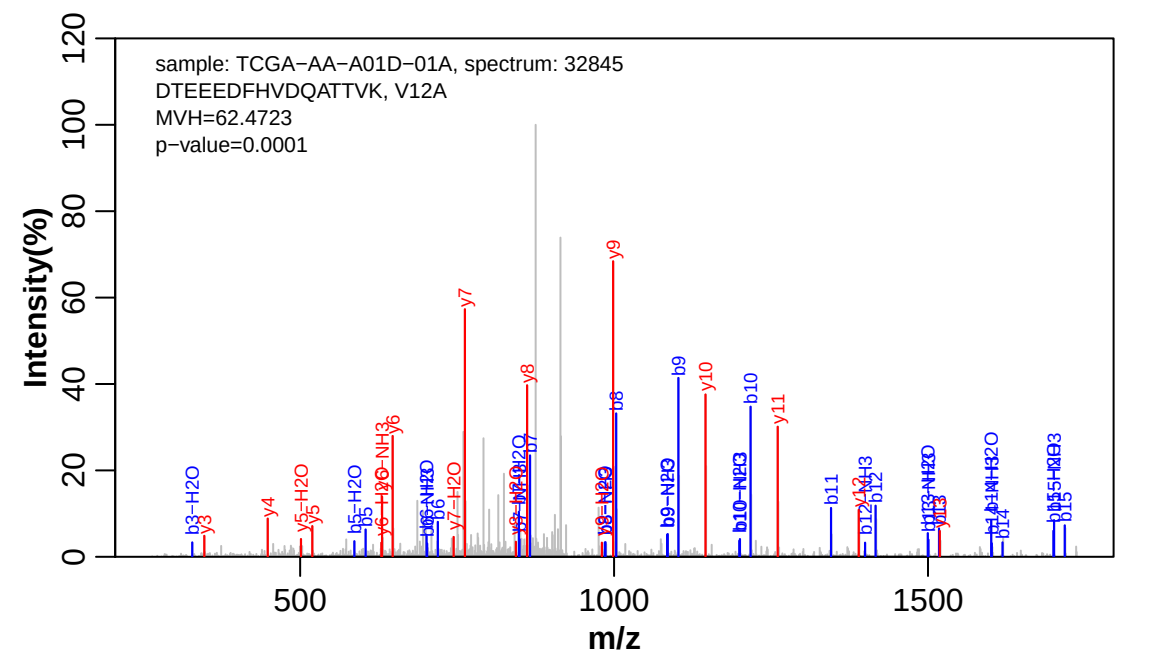

sample: TCGA−AA−A01D−01A, spectrum: 37000
ALEDVFDALEGK, M5V
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
y5−NH3
b5
y6
b6
y7
y7−NH3
y7−H2O
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

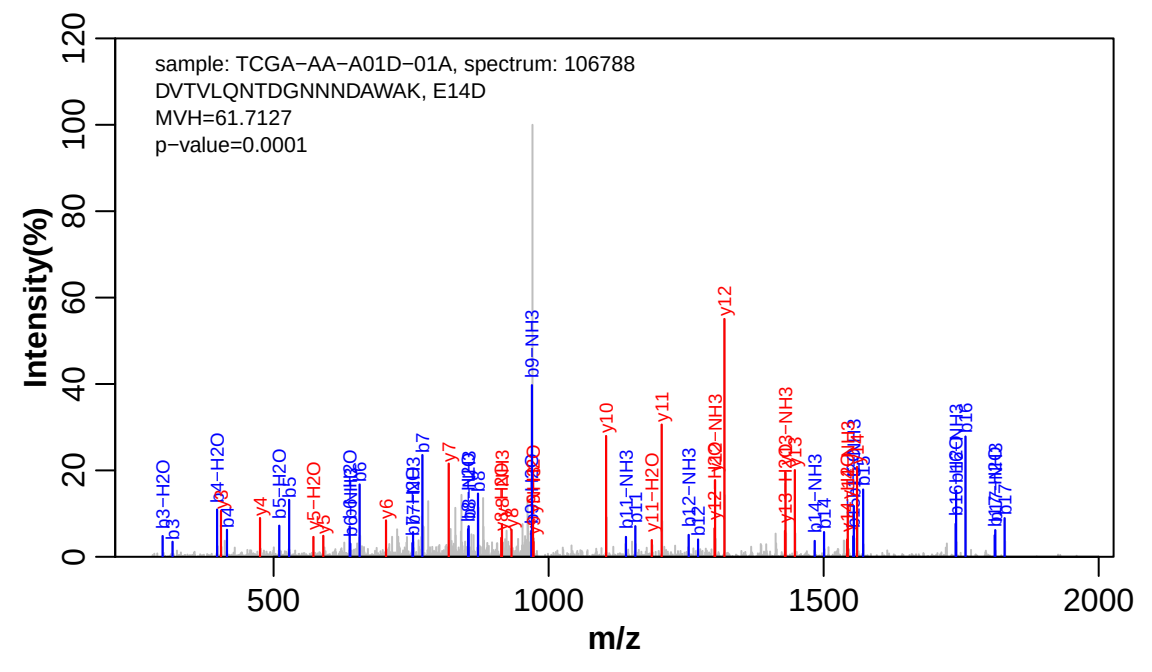

sample: TCGA−AA−A01D−01A, spectrum: 53080
AYVVLLR, E1A
MVH=40.4767
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

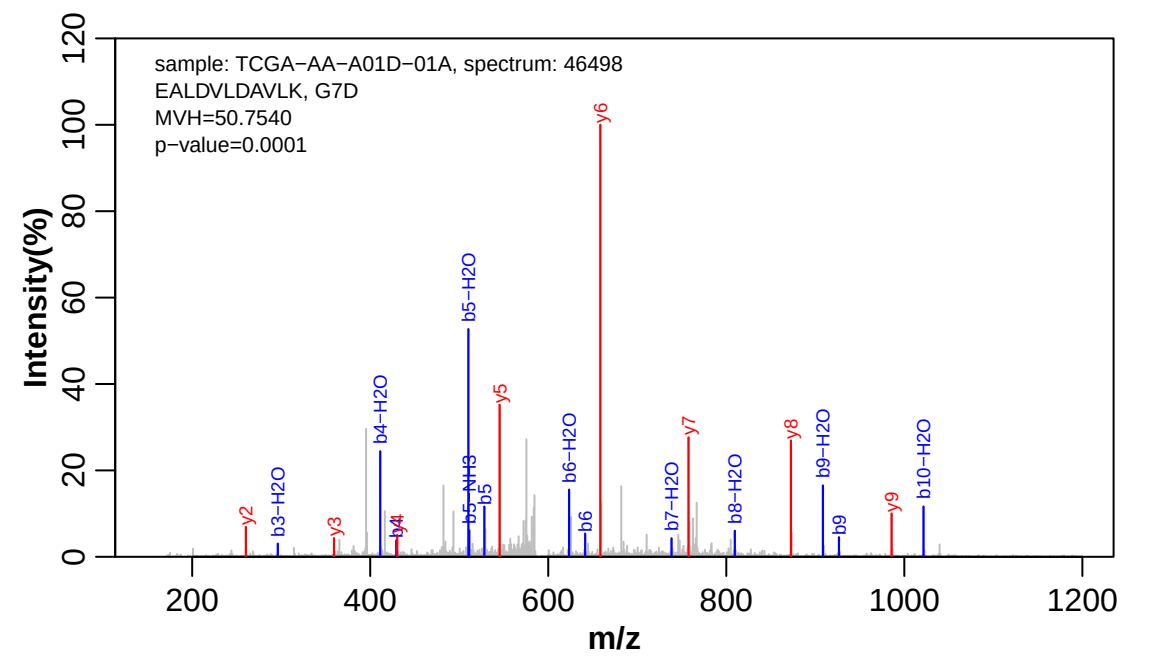

sample: TCGA−AA−A01D−01A, spectrum: 101728
CDPGALVLPFSGALELK, Y1C
MVH=55.9646
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

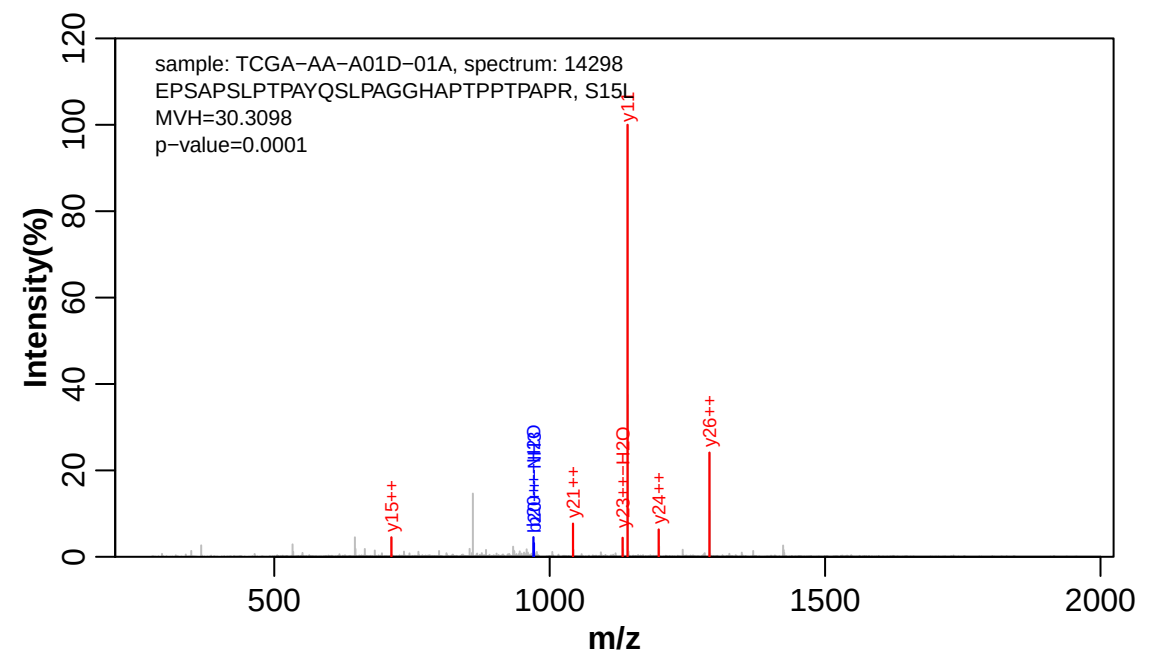

sample: TCGA−AA−A01D−01A, spectrum: 16386
DFYVVEPLAFEGTPEQK, I4V
MVH=38.6432
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y3−H2O
b3
y4−NH3
y4
b4
y5
b5
y6−NH3
y6
b6
y7
y8
b8
b9−H2O
b9
y10−H2O
y11
b10
b11
y12
b12
b13
y14
b16

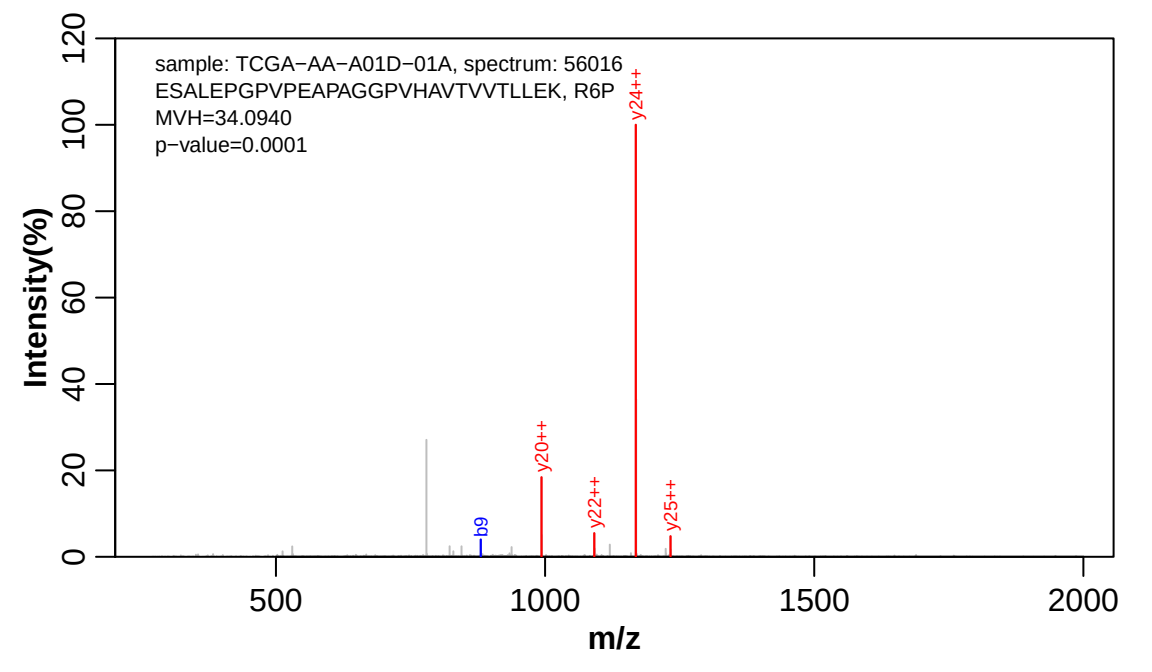

sample: TCGA−AA−A01D−01A, spectrum: 123492
DGYGFLNR, N1D
MVH=38.7115
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2−H2O
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

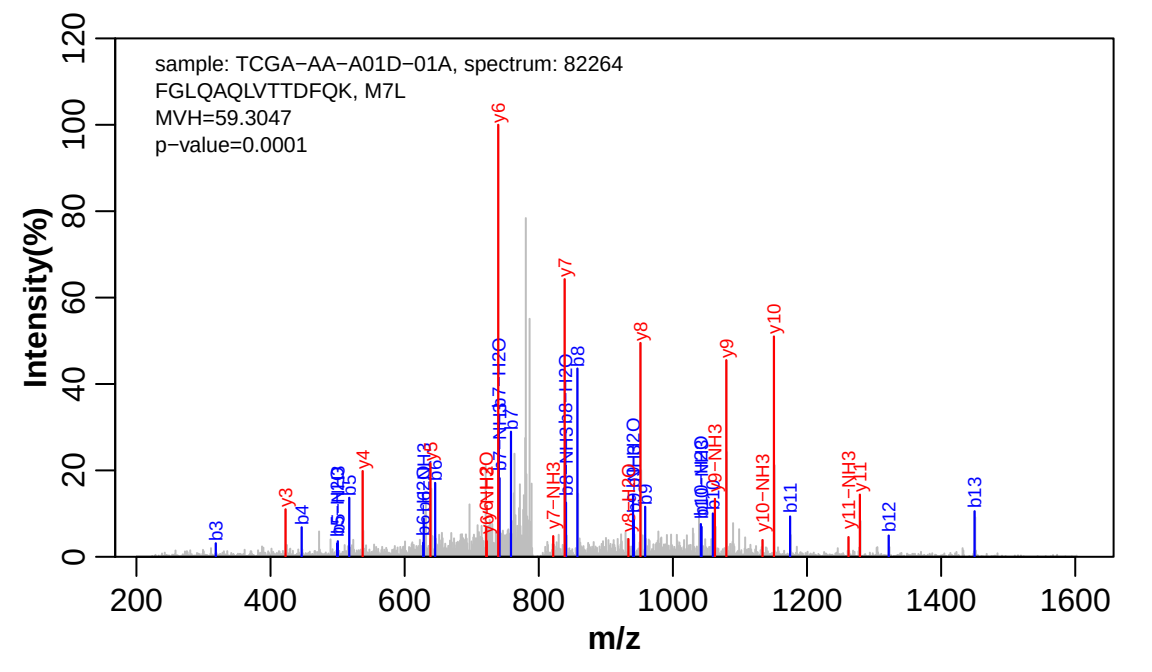

sample: TCGA−AA−A01D−01A, spectrum: 32845
DTEEEDFHVDQATTVK, V12A
MVH=62.4723
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y3
y4
y5−H2O
y5
b5−H2O
b5
y6−H2O−NH3
y6
y7−H2O
y7
y8
y9
b8
b9
y10
b10
y11
b11
b12
b14
b15

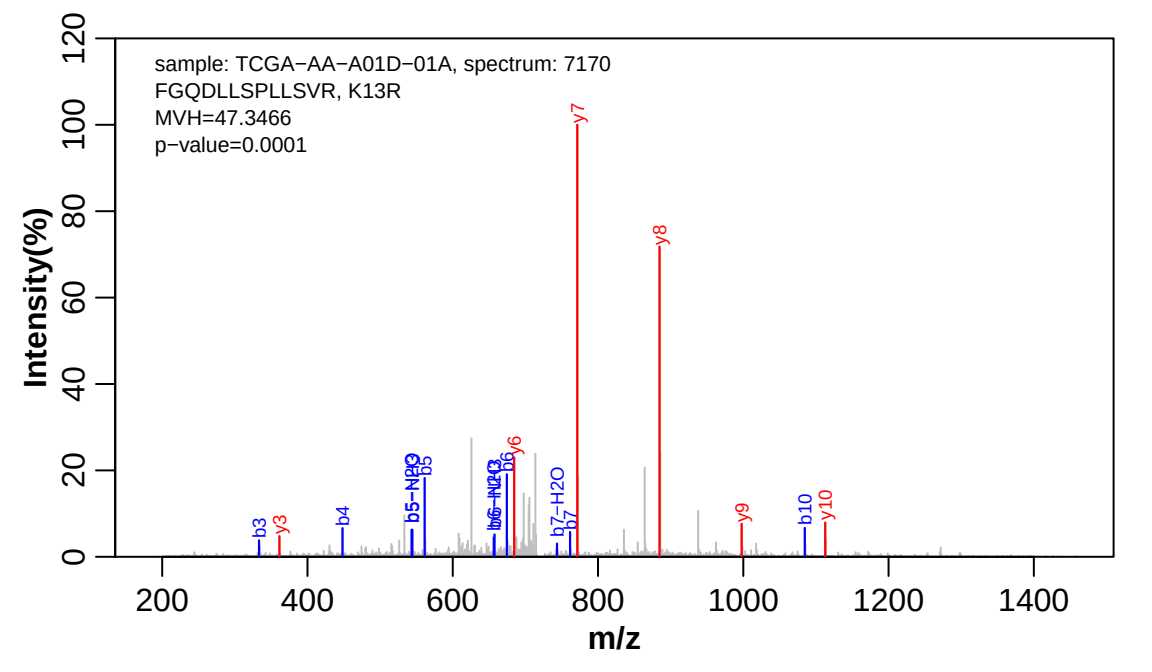

sample: TCGA−AA−A01D−01A, spectrum: 106788
DVTVLQNTDGNNNDAWAK, E14D
MVH=61.7127
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−NH3
b6
y6
b7
b7−H2O
b7−NH3
y7
b8
b8−H2O
b8−NH3
y8
b9−NH3
b9−H2O
y9−NH3
y9−H2O
y10
b11−NH3
b11
y11−H2O
y11
b12−NH3
b12
y12−H2O
y12−NH3
y12
y13−H2O
y13−NH3
y13
b14−NH3
b14
b15
b16
b17−NH3
b17

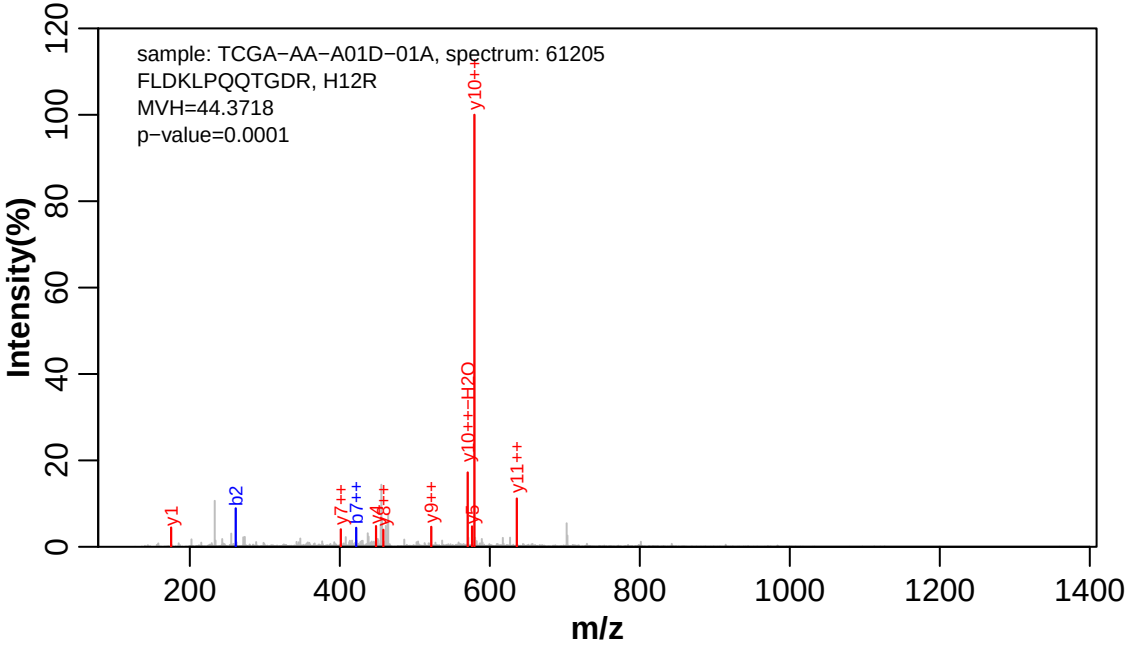

sample: TCGA−AA−A01D−01A, spectrum: 46498
EALDVLDAVLK, G7D
MVH=50.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O

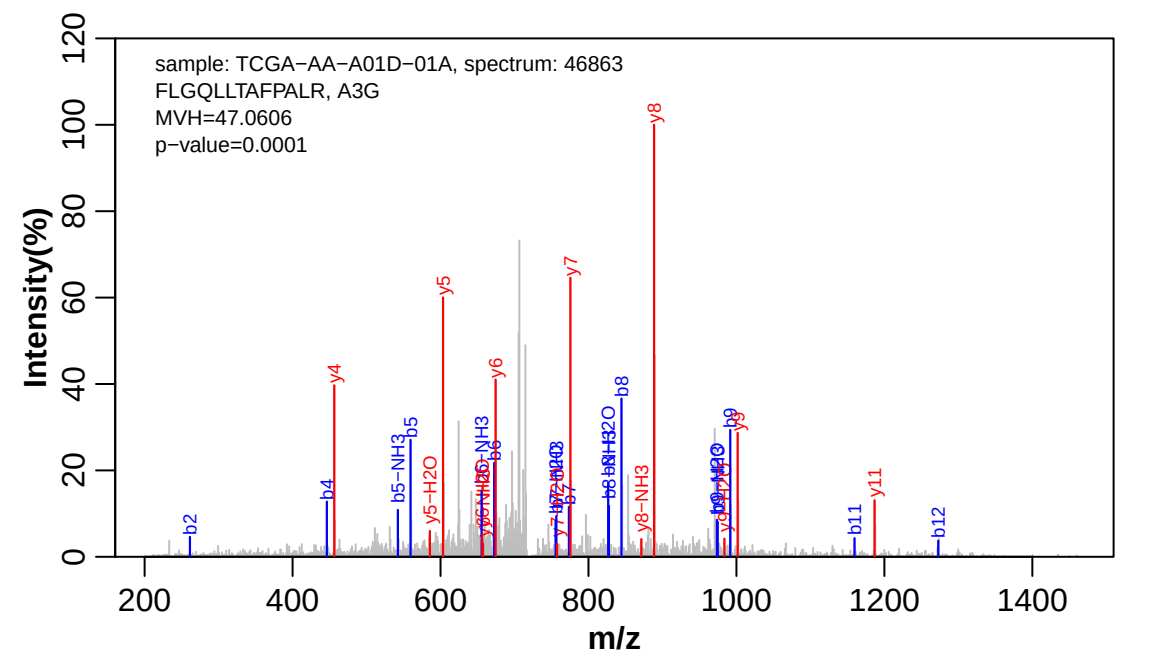

sample: TCGA−AA−A01D−01A, spectrum: 14298
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=30.3098
p−value=0.0001
Intensity(%)
m/z
y11
y15++
y21++
y23++−H2O
y24++
y26++

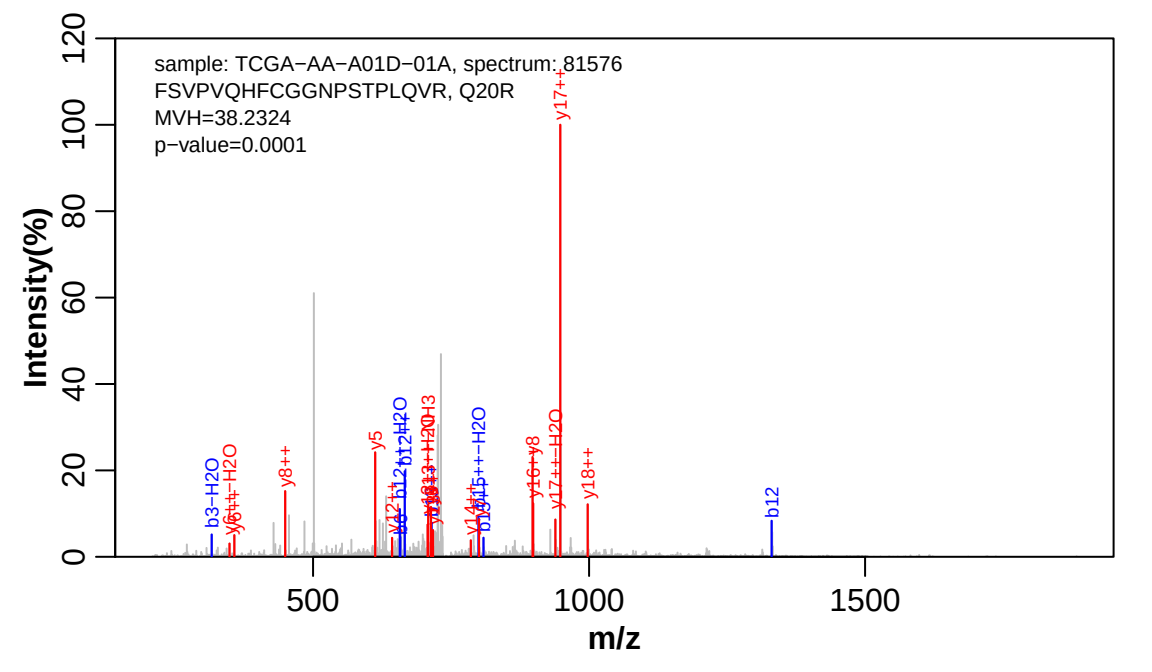

sample: TCGA−AA−A01D−01A, spectrum: 56016
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=34.0940
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

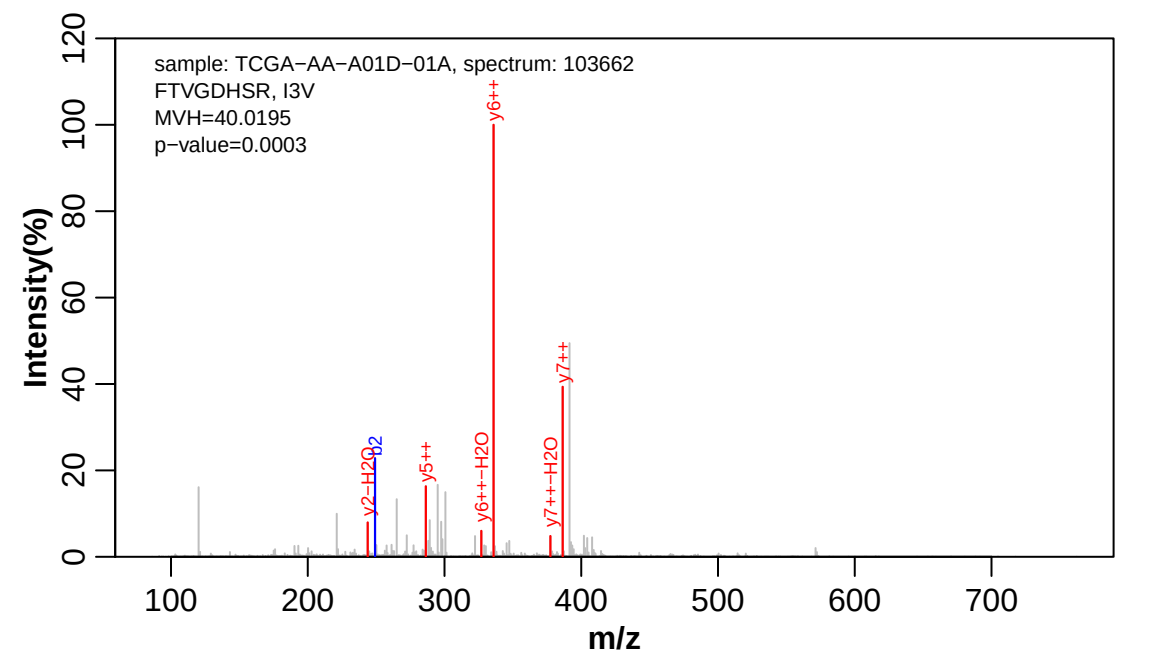

sample: TCGA−AA−A01D−01A, spectrum: 82264
FGLQAQLVTTDFQK, M7L
MVH=59.3047
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y9
y10
y3
y4
b3
b4
b5
b8
b11
b12
b13
y7−NH3
y10−NH3
y11−NH3
y11
b7
b8
b9
b10
y9−NH3

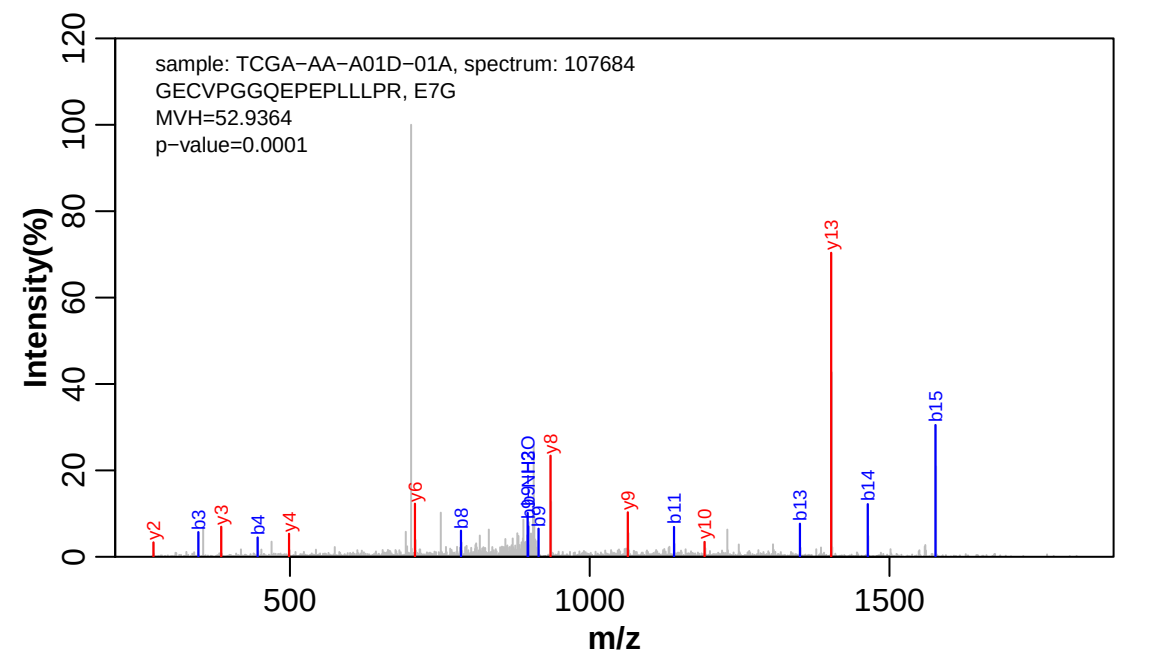

sample: TCGA−AA−A01D−01A, spectrum: 7170
FGQDLLSPLLSVR, K13R
MVH=47.3466
p−value=0.0001
Intensity(%)
m/z
y7
y8
y6
b3
y3
b4
b5
b7−H2O
y9
b10
y10

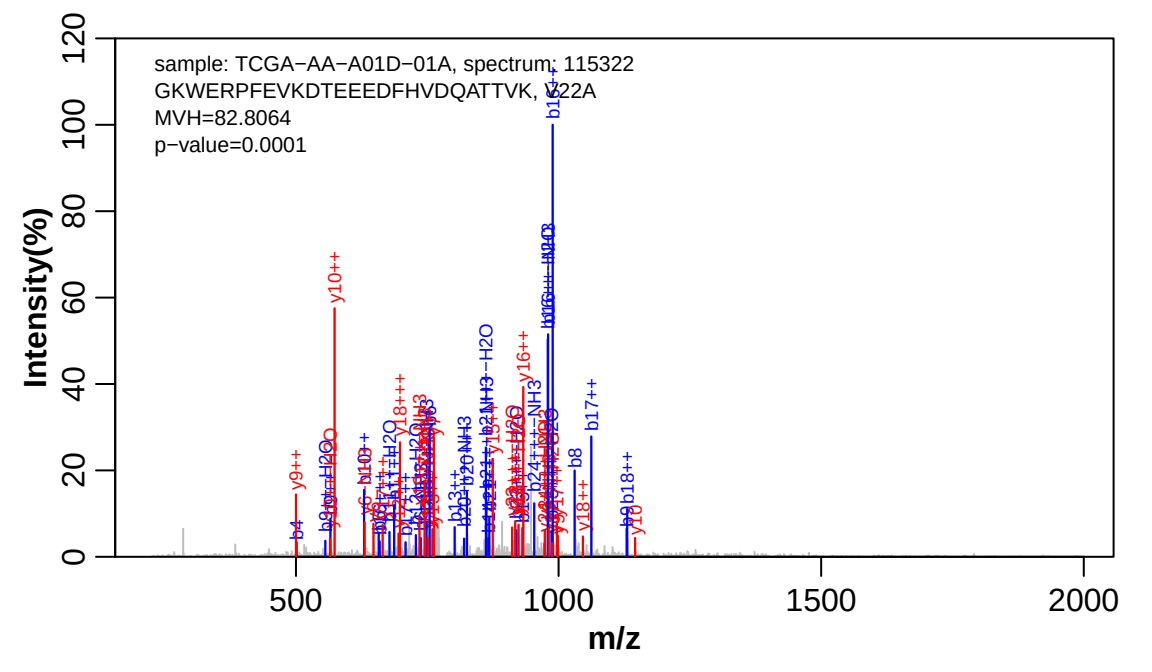

sample: TCGA−AA−A01D−01A, spectrum: 61205
FLDKLPQQTGDR, H12R
MVH=44.3718
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
b2
y7++
b7++
y8++
y9++
y10++−H2O
y10++
y5
y11++

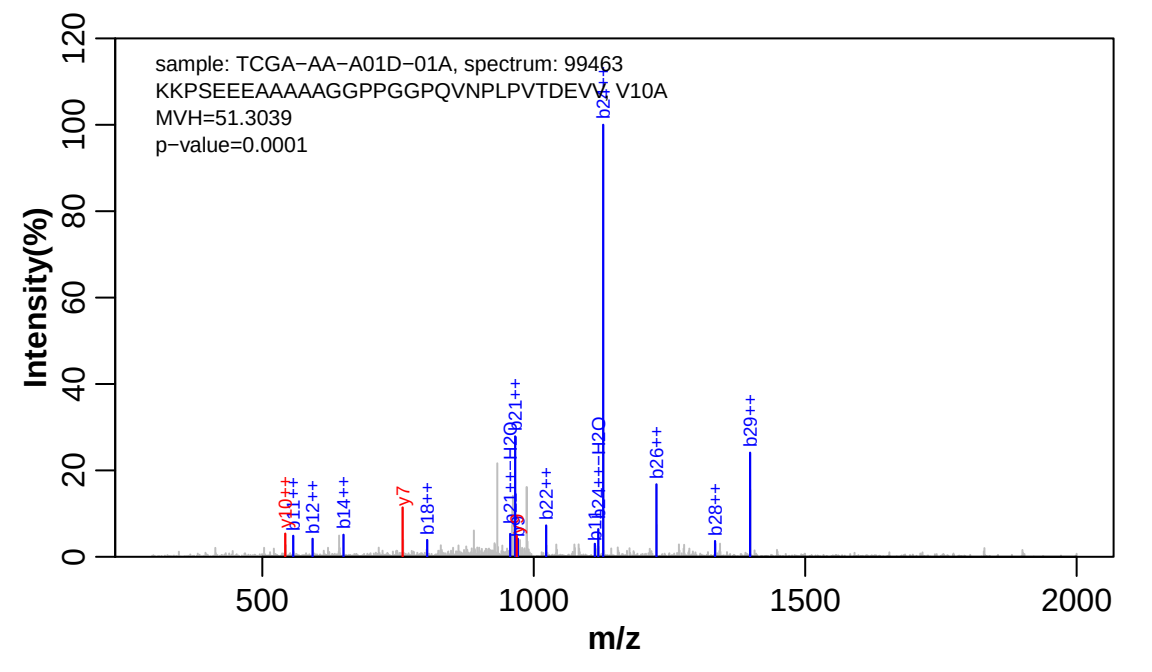

sample: TCGA−AA−A01D−01A, spectrum: 46863
FLGQLLTAFPALR, A3G
MVH=47.0606
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4
b4
b5
b5−NH3
y5
y5−H2O
y6
b8
y7
b8
b8−H2O
y8
y8−NH3
y9
b11
y11
b12

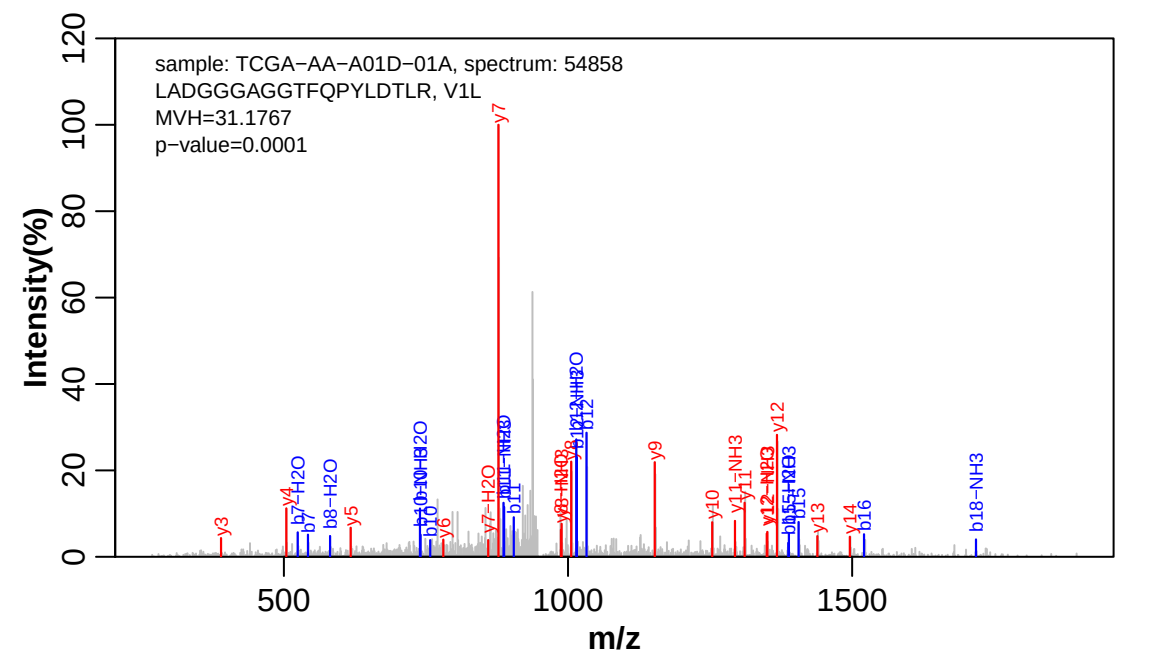

sample: TCGA−AA−A01D−01A, spectrum: 81576
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=38.2324
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y8++−H2O
y8++
y5
b12−H2O
b12
y17++
y16−y8
y17++−H2O
y18++
b12

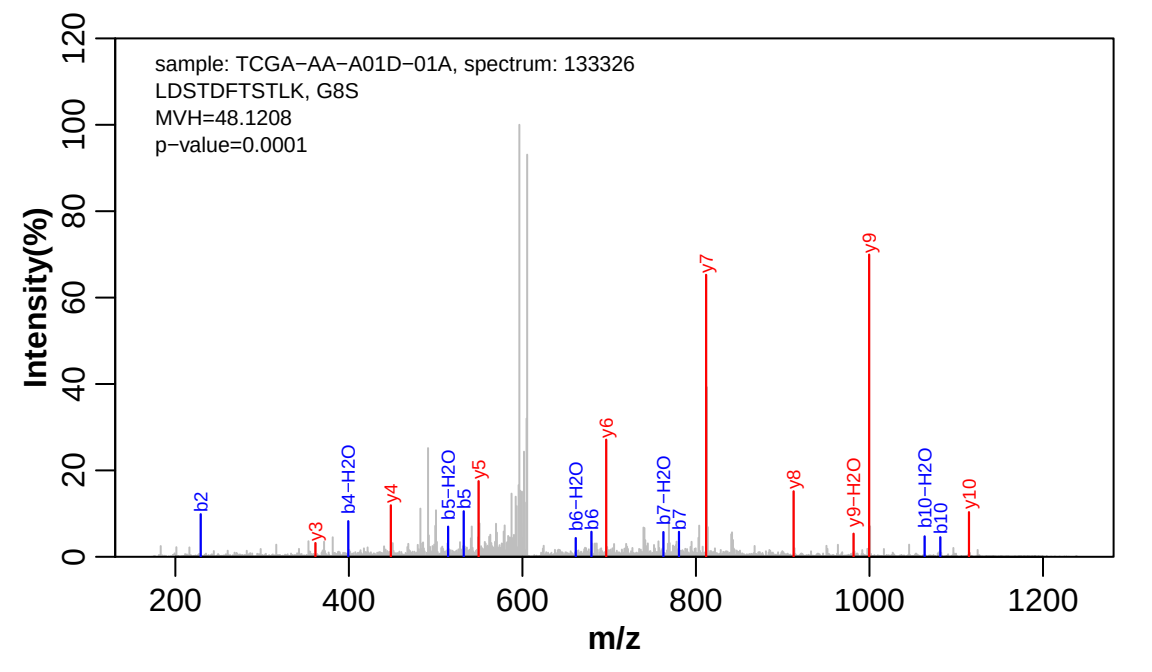

sample: TCGA−AA−A01D−01A, spectrum: 103662
FTVGDHSR, I3V
MVH=40.0195
p−value=0.0003
y6++
y7++
y2−H2O
b2
y5++
y6++−H2O
y7++−H2O
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z

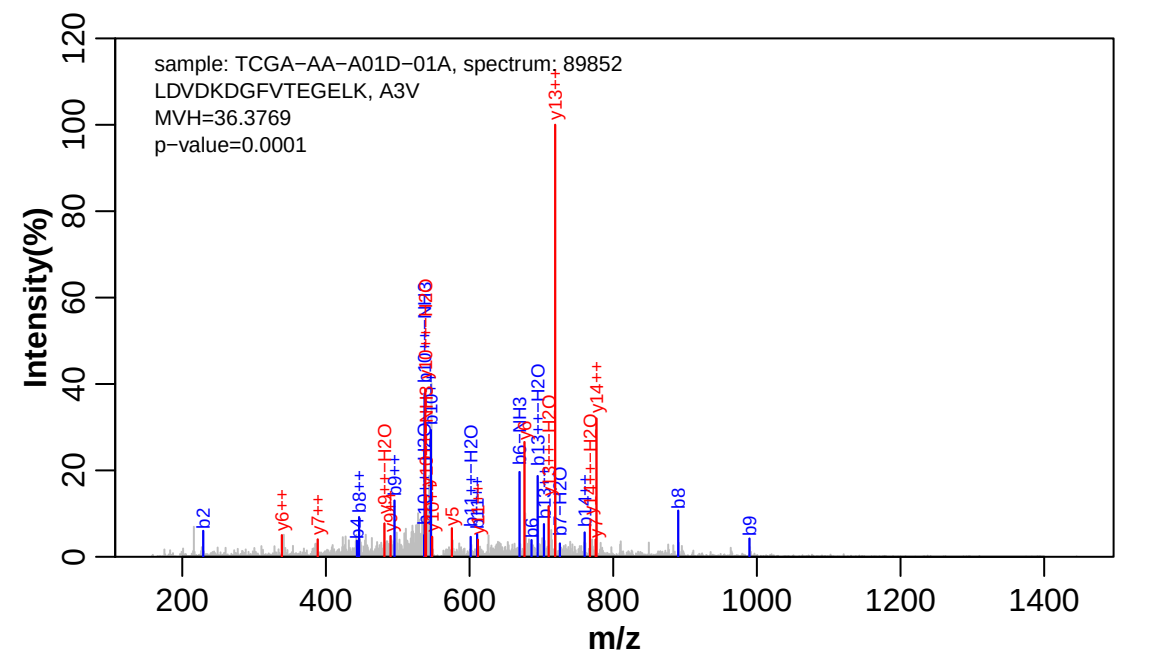

sample: TCGA−AA−A01D−01A, spectrum: 107684
GECVPGGQEPEPLLLPR, E7G
MVH=52.9364
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
y3
b4
y4
y6
b8
b9
b9-NH2
b9-H2O
y8
y9
b11
y10
b13
y13
b14
b15

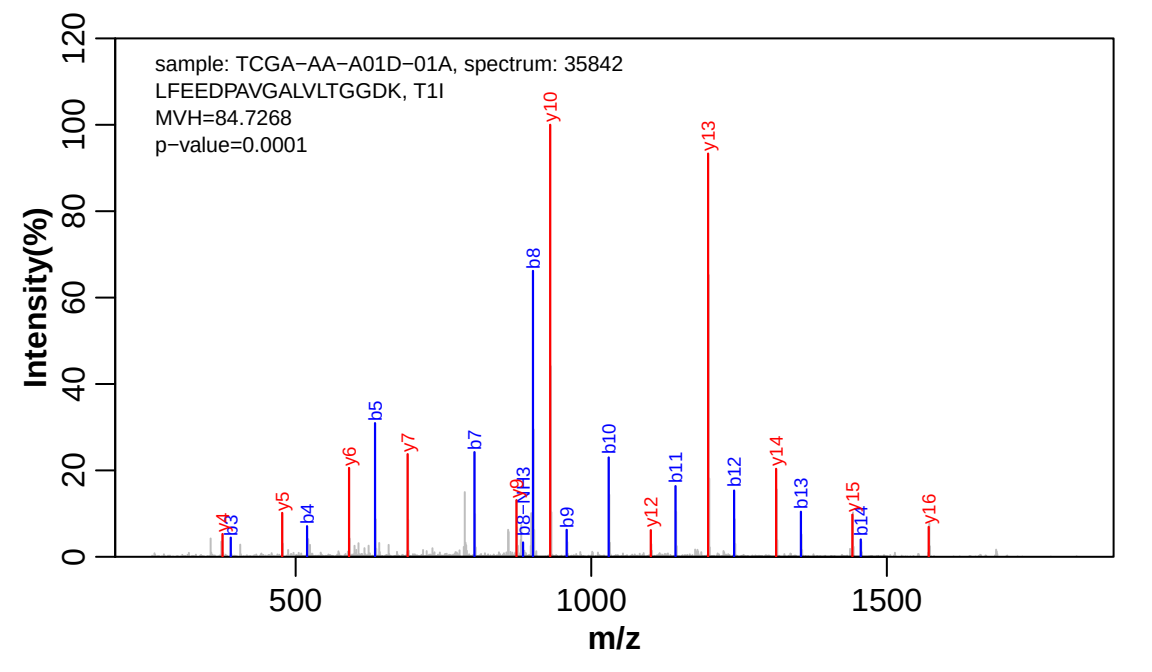

sample: TCGA−AA−A01D−01A, spectrum: 115322
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=82.8064
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b16++
y10++
y9++
b17++
b18++
y18+++
y16++
b8
y18++
y10

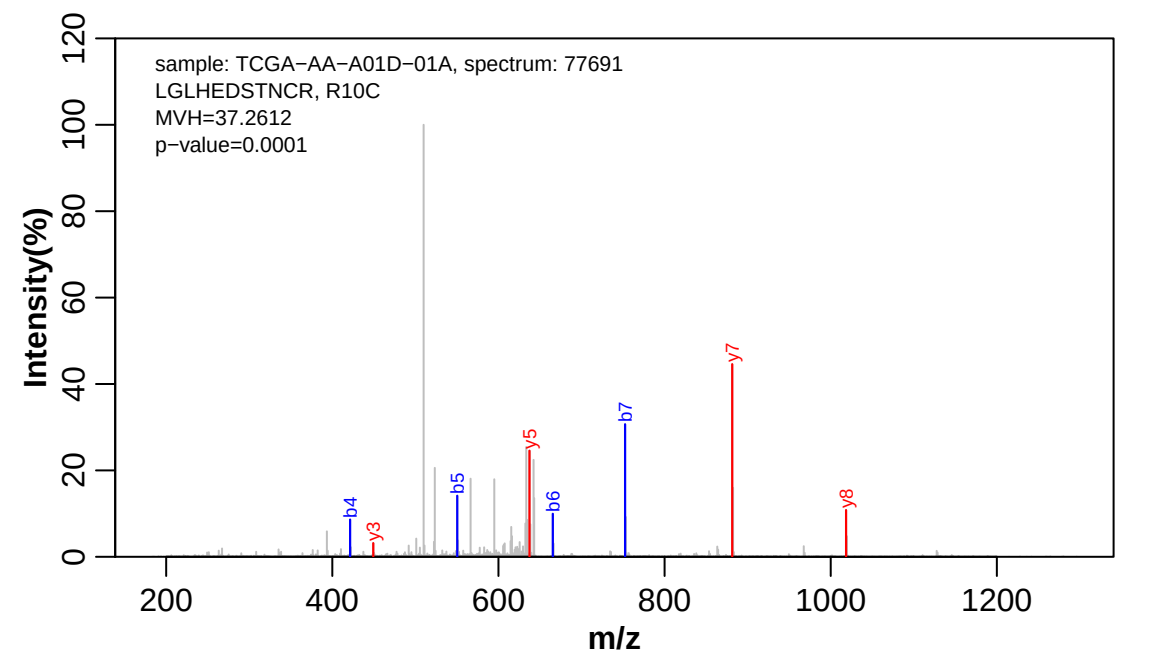

sample: TCGA−AA−A01D−01A, spectrum: 99463
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV V10A
MVH=51.3039
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−H2O
b24++−H2O
b26++
b29++
b28++
b22++
b18++
b14++
b12++
b11++
y10++
y7
y9

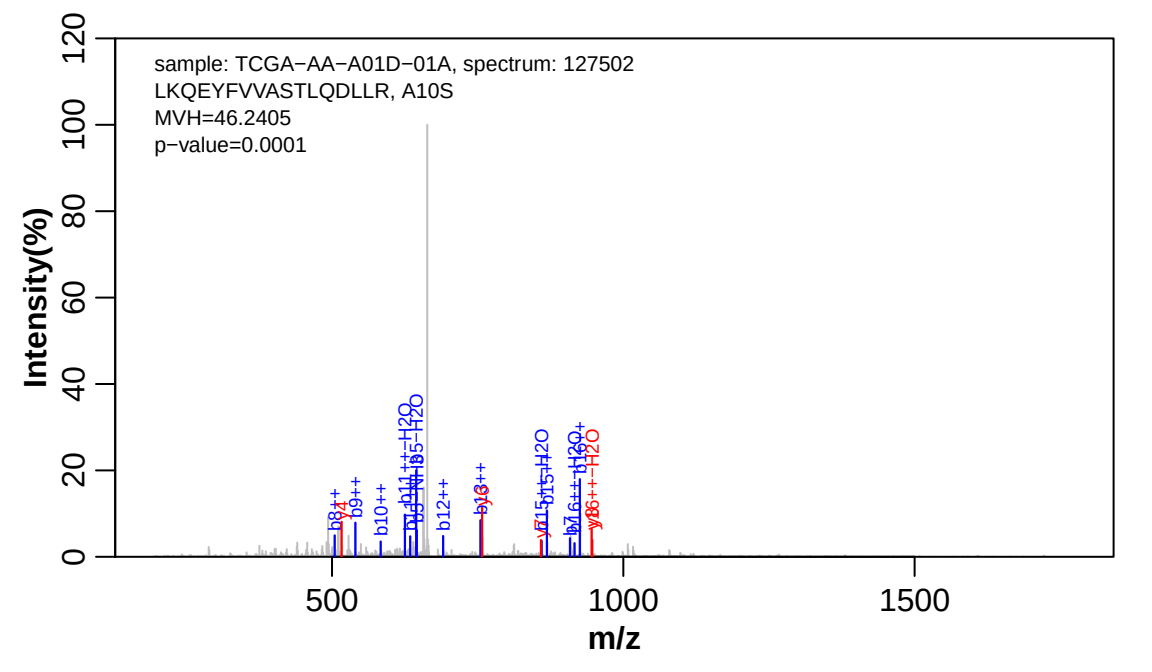

sample: TCGA−AA−A01D−01A, spectrum: 54858
LADGGGAGGTFQPYLDTLR, V1L
MVH=31.1767
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b7−H2O
b7
b8−H2O
y5
b10−H2O
b10
y6
y7−H2O
y7
b11
b11−NH3
y8−H2O
y8
b12−H2O
b12
y9
y10
y11−NH3
y11
y12−NH3
y12
b15−H2O
b15
y13
y14
b16
b18−NH3

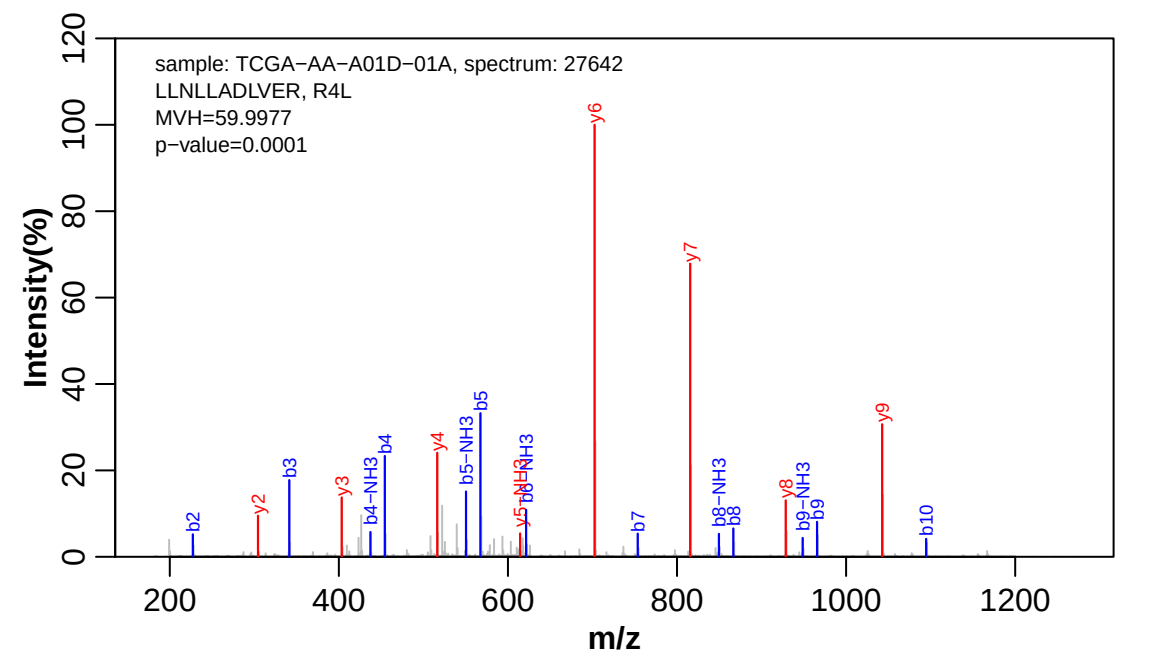

sample: TCGA−AA−A01D−01A, spectrum: 133326
LDSTDFTSTLK, G8S
MVH=48.1208
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

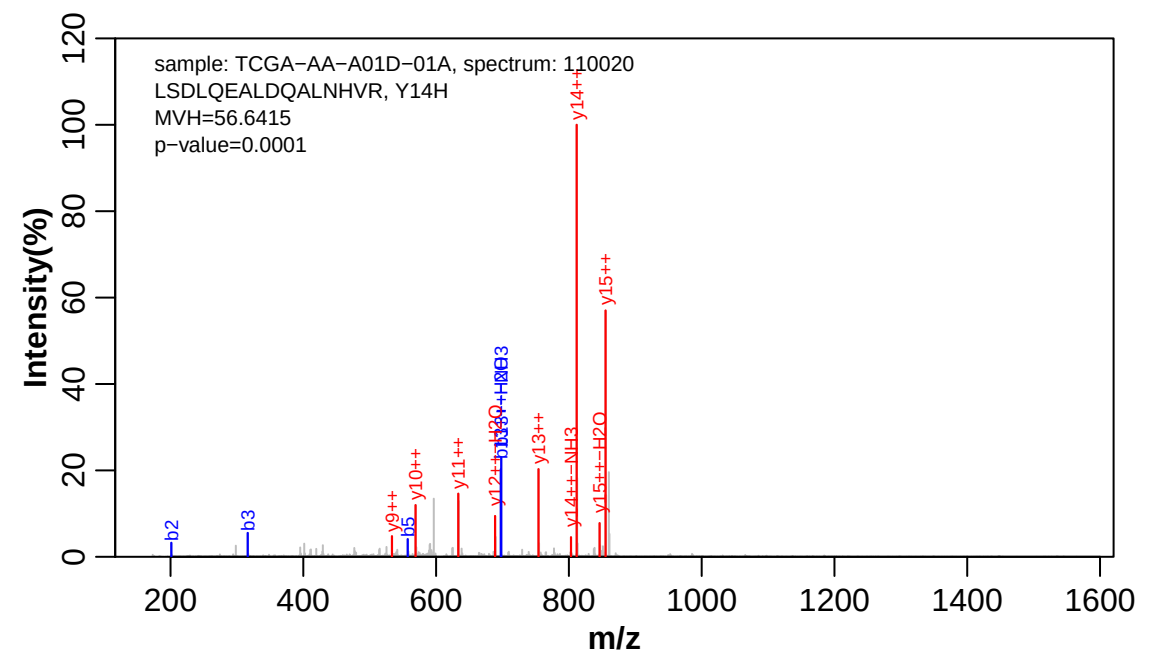

sample: TCGA−AA−A01D−01A, spectrum: 89852
LDVDKDGFVTEGELK, A3V
MVH=36.3769
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
y14++
b2
y6++
y7++
b4
b8++
y9++−H2O
b9++
y5
b11++−H2O
b6−NH3
b6
b13++−H2O
b7−H2O
y14++−H2O
b14++
b8
b9

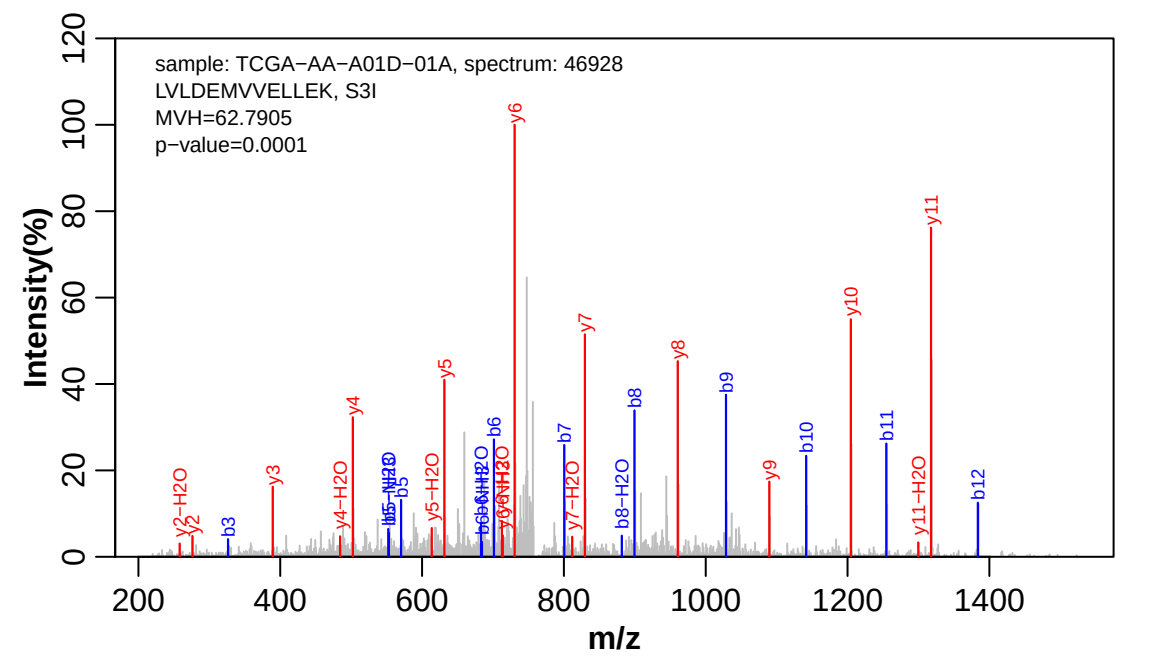

sample: TCGA−AA−A01D−01A, spectrum: 35842
LFEEDPAVGALVLTGGDK, T1I
MVH=84.7268
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
b7
b10
y5
b4
b11
b12
y14
b13
y15
y16
y12
b9
b8−NH3
b8−H2O
y4
b3

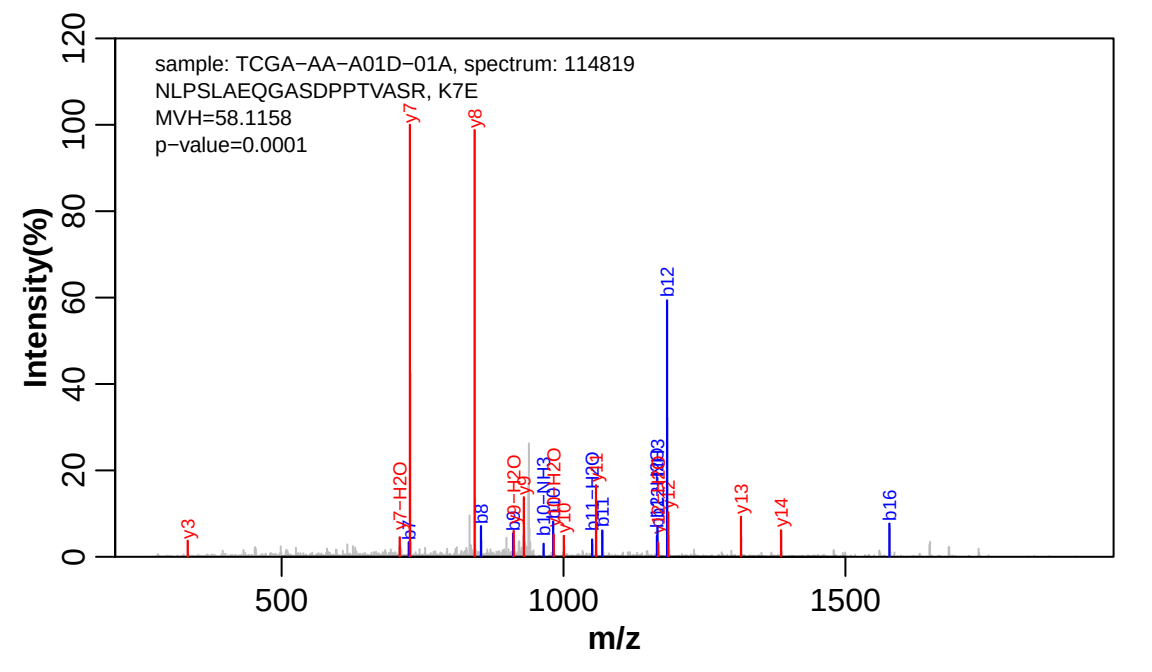

sample: TCGA−AA−A01D−01A, spectrum: 77691
LGLHEDSTNCR, R10C
MVH=37.2612
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b4
y3
b5
y5
b6
b7
y7
y8

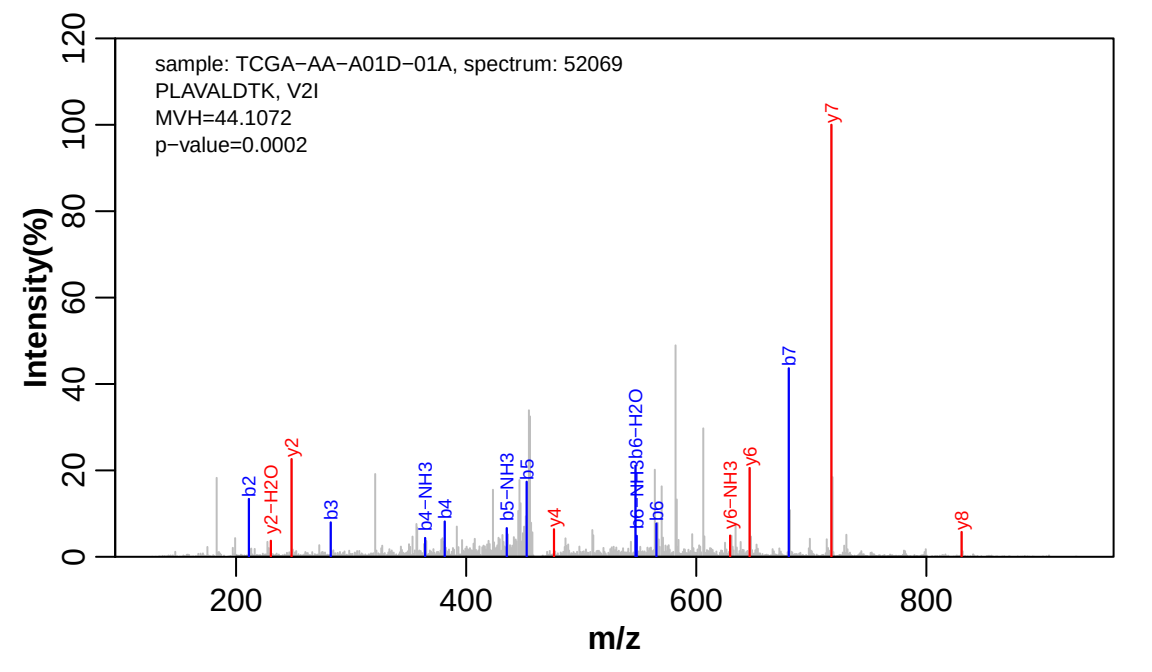

sample: TCGA−AA−A01D−01A, spectrum: 127502
LKQEYFVVASTLQDLLR, A10S
MVH=46.2405
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b8++
y4
b9++
b10++
b11++−H2O
b11++
b12++
b13++
y15−H2O
y15
b16++−H2O
b16++
y8++−H2O
y8++

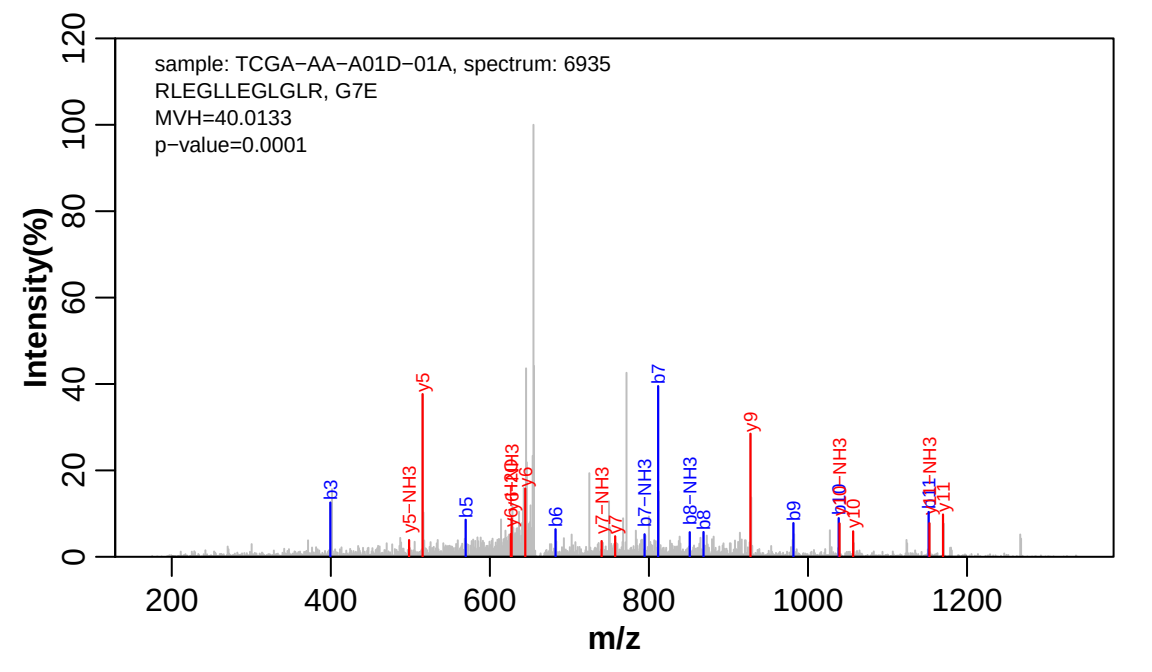

sample: TCGA−AA−A01D−01A, spectrum: 27642
LLNLLADLVER, R4L
MVH=59.9977
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

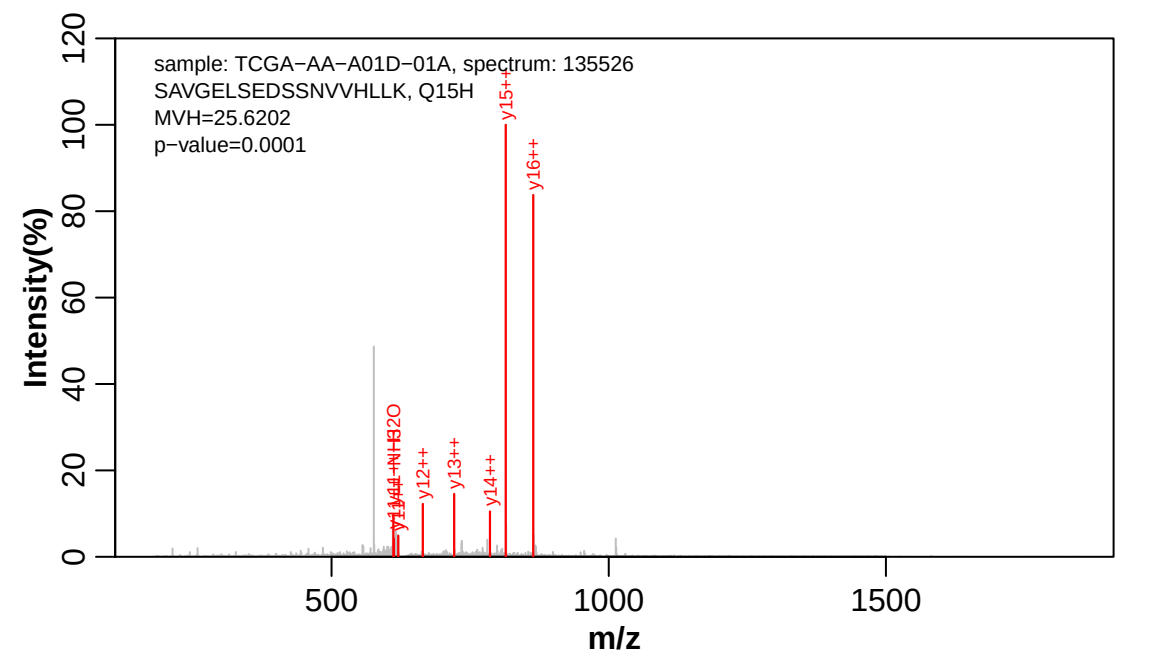

sample: TCGA−AA−A01D−01A, spectrum: 110020
LSDLQEALDQALNHVR, Y14H
MVH=56.6415
p−value=0.0001
Intensity(%)
m/z
b2
b3
y9++
b5
y10++
y11++
y12++-H2O
y13++
y14++-NH3
y14++
y15++-H2O
y15++

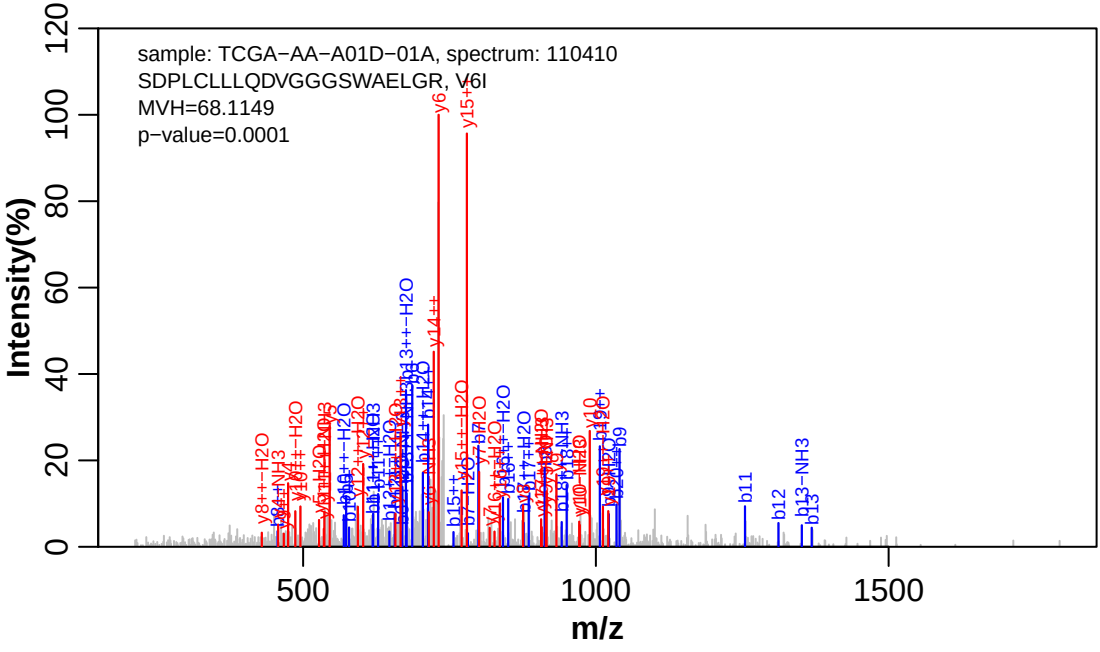

sample: TCGA−AA−A01D−01A, spectrum: 46928
LVLDEMVVELLEK, S3I
MVH=62.7905
p−value=0.0001
Intensity(%)
m/z
y6
y11
y7
y8
y10
b9
b8
b11
b10
y5
y4
b6
b7
y3
b12
y9
y11−H2O
y7−H2O
y5−H2O
y4−H2O
b8−H2O
y2−H2O
y2
b3
b5
b5−NH3
b5−H2O
y6−H2O
b6−NH3
b6−H2O

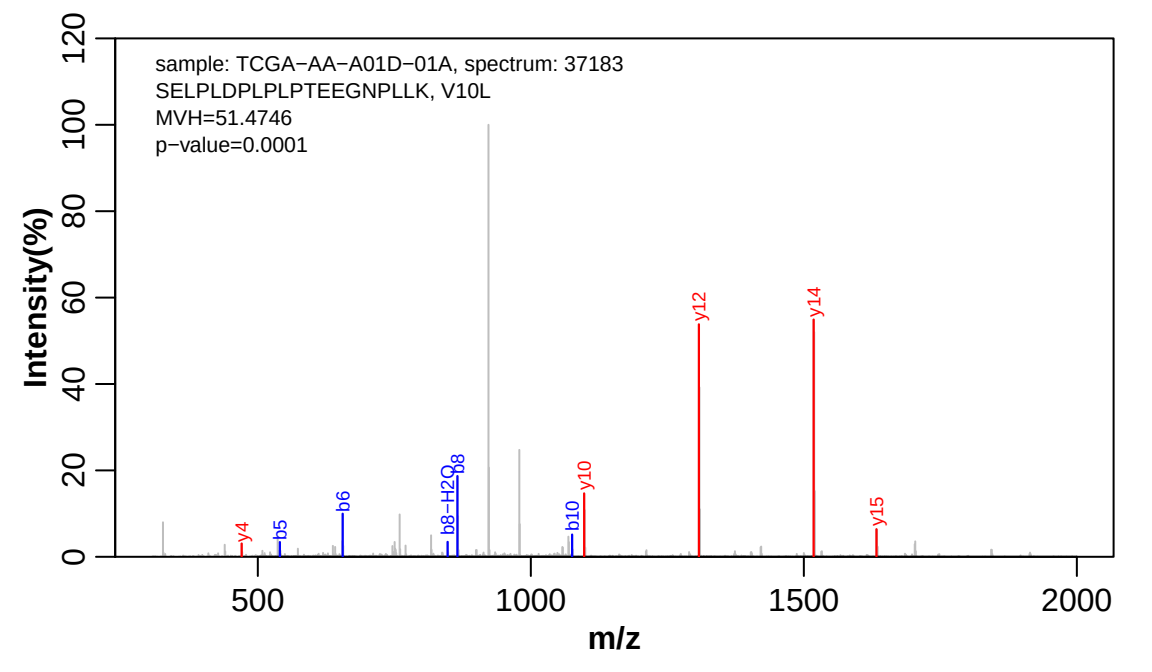

sample: TCGA−AA−A01D−01A, spectrum: 114819
NLPSLAEQGASDPPTVASR, K7E
MVH=58.1158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y7
y7−H2O
b7
y8
b8
b9−H2O
y9
b10−NH3
b10−H2O
y10
b11−H2O
b11−NH3
b12
y12
y13
y14
b16

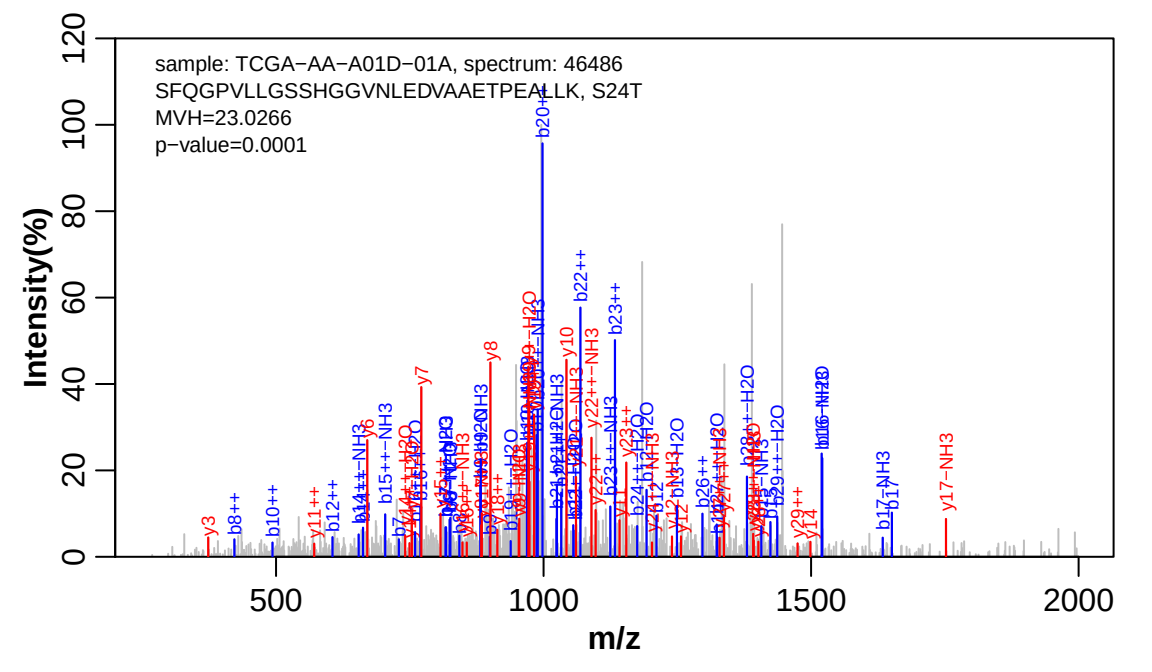

sample: TCGA−AA−A01D−01A, spectrum: 52069
PLAVALDTK, V2I
MVH=44.1072
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
b4−NH3
b4
b5−NH3
b5
y4
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7
y7
y8

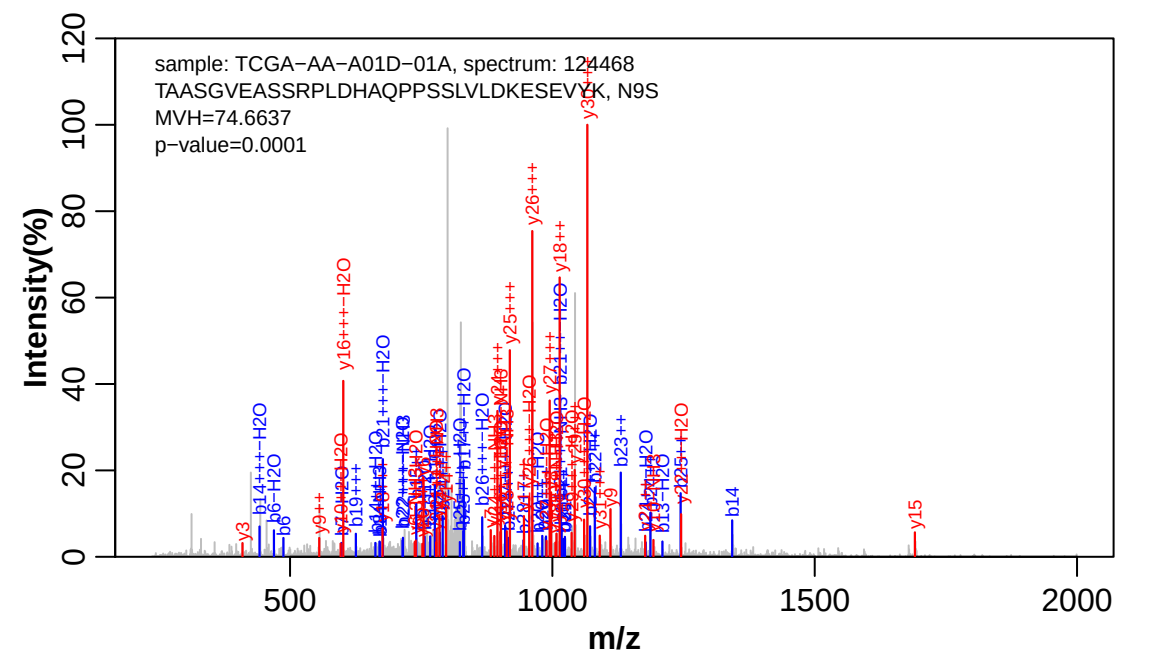

sample: TCGA−AA−A01D−01A, spectrum: 6935
RLEGLLEGLGLR, G7E
MVH=40.0133
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y5
y5−NH3
b5
y6
b6
y7−NH3
y7
b7
b7−NH3
b8−NH3
b8
y9
b9
b10−NH3
y10
y11−NH3
y11

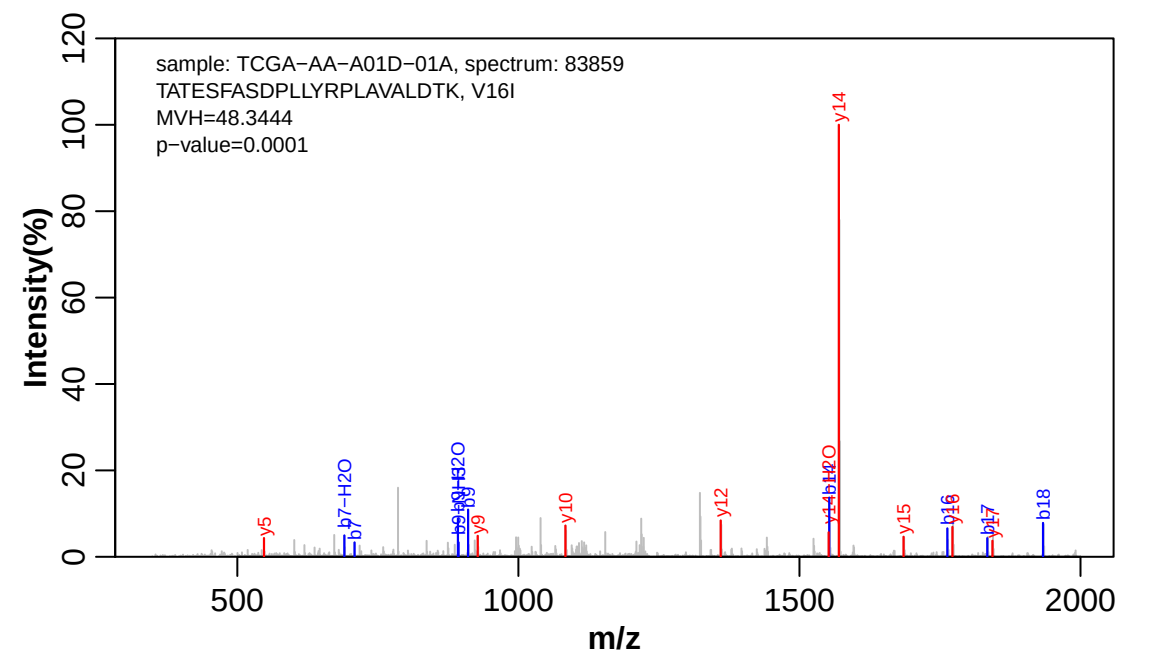

sample: TCGA−AA−A01D−01A, spectrum: 135526
SAVGELSEDSSNVVHLLK, Q15H
MVH=25.6202
p−value=0.0001
y15++
y16++
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

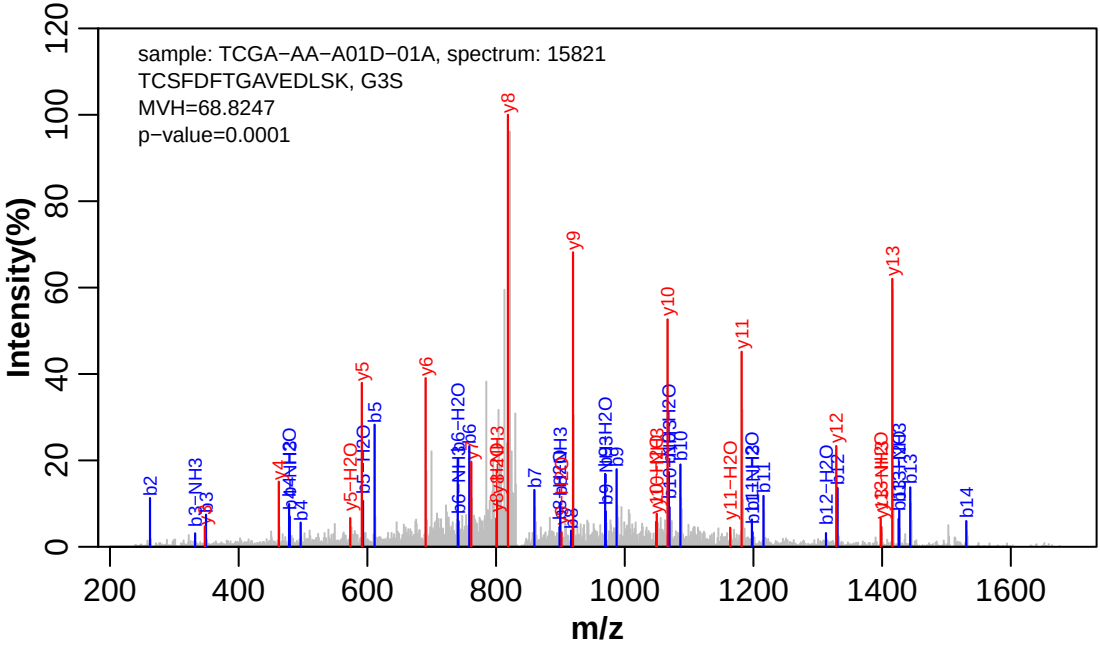

sample: TCGA−AA−A01D−01A, spectrum: 110410
SDPLCLLLQDVGGGSWAELGR, V6I
MVH=68.1149
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6++
y15++
y14++
b11
b12
b13−NH3

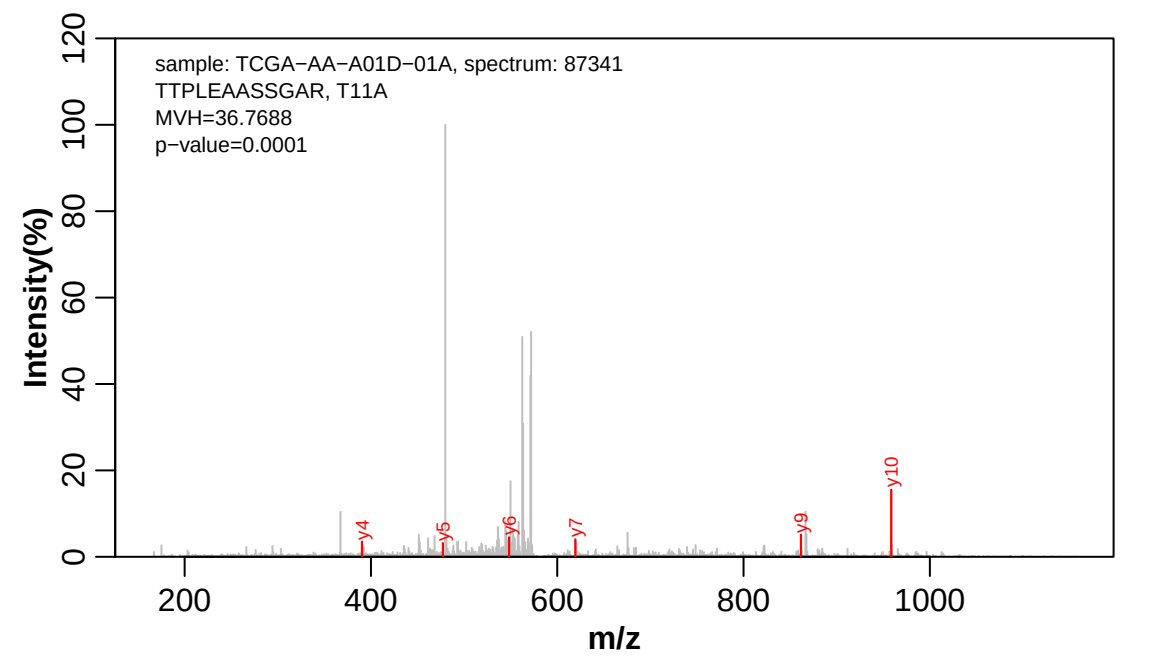

sample: TCGA−AA−A01D−01A, spectrum: 37183
SELPLDPLPLPTEEGNPLLK, V10L
MVH=51.4746
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6
b8−H2O
b8
b10
y10
y12
y14
y15

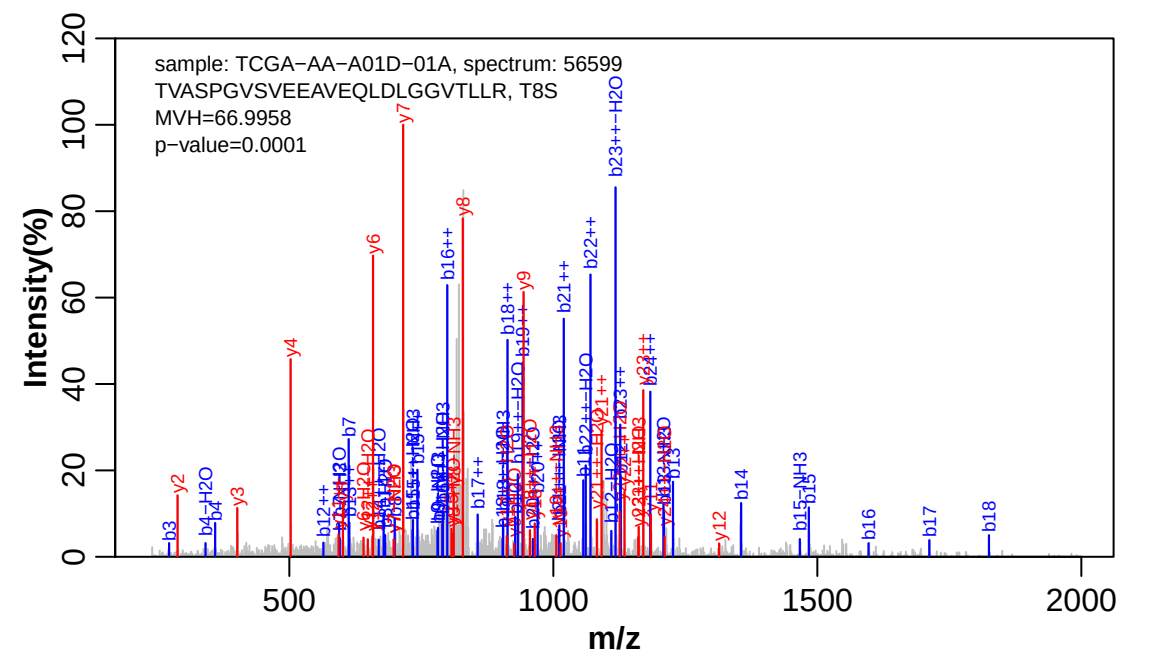

sample: TCGA−AA−A01D−01A, spectrum: 46486
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=23.0266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b20++
b22++
b23++
y8
y10
y3
b8++
b10++
y11++
b12++
y6
b15++−NH3
y7
y17−NH3
b17−NH3
b17
y14
y29++
b26++
y23++
y22++−NH3
y22++
b23++−NH3
y12
y12−NH3
b24++−H2O
y23++−H2O
b29++−H2O
b28++−H2O
b15++−H2O
b18++
b19++
b21++
b22++−NH3
b22++−H2O
b23++−NH3
b24++−NH3
b26++−H2O
b28++−NH3
b29++−NH3

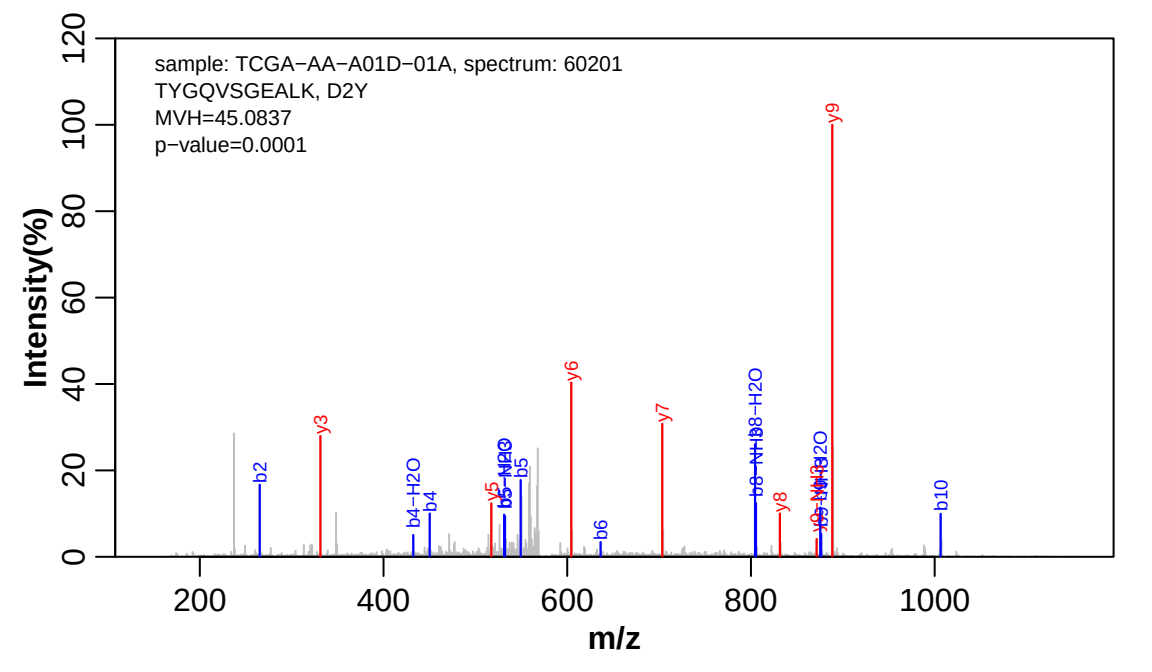

sample: TCGA−AA−A01D−01A, spectrum: 124468
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=74.6637
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3++
y16+++−H2O
y26+++
y18++
y25+++
b14+++−H2O
b6−H2O
b6
y3
y9++
b19+++
b21+++−H2O
b26+++−H2O
b23++
y15
b14

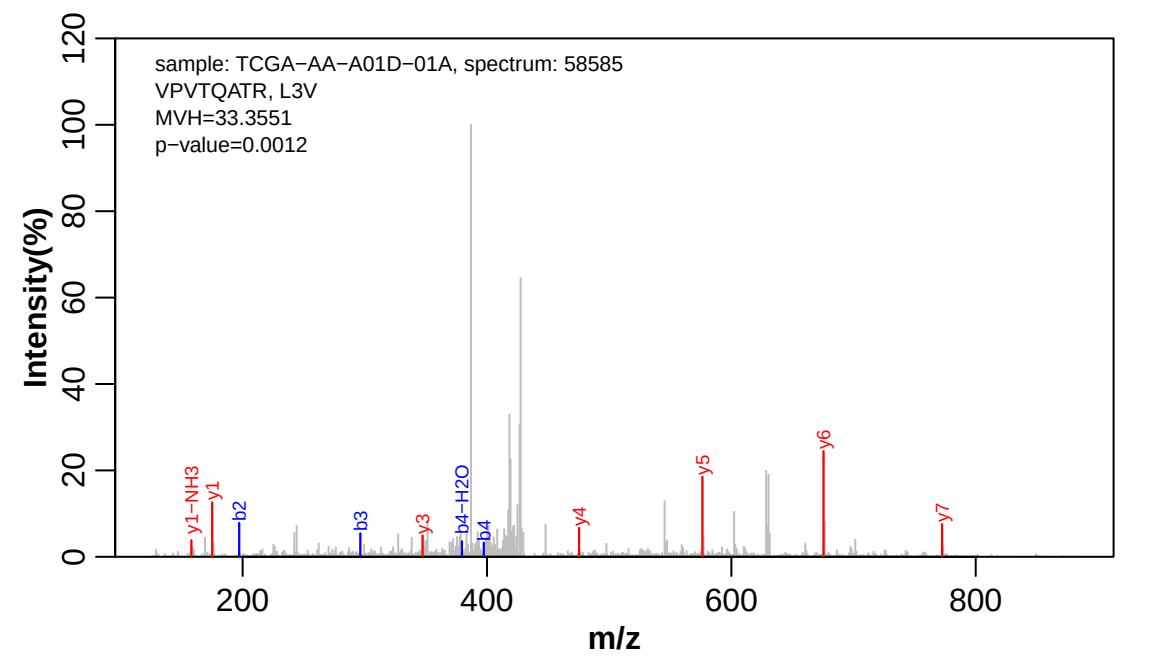

sample: TCGA−AA−A01D−01A, spectrum: 83859
TATESFASDPLLYRPLAVALDTK, V16I
MVH=48.3444
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
b7−H2O
b7
b9−H2O
b9
y9
y10
y12
y14−H2O
y14
y15
b16
b17
b18

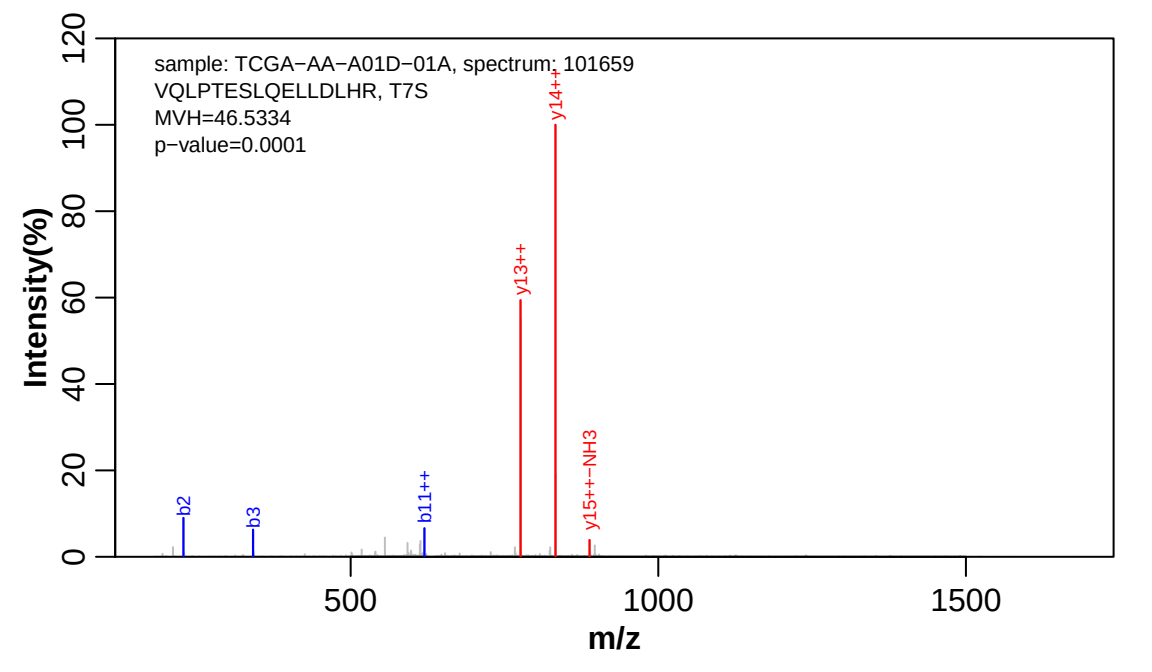

sample: TCGA−AA−A01D−01A, spectrum: 15821
TCSFDFTGAVEDLSK, G3S
MVH=68.8247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y9
y13
y10
y11
y6
y5
y12
b2
b14
b7
b5
b11
b13
b12
b4
b3
y4
y3

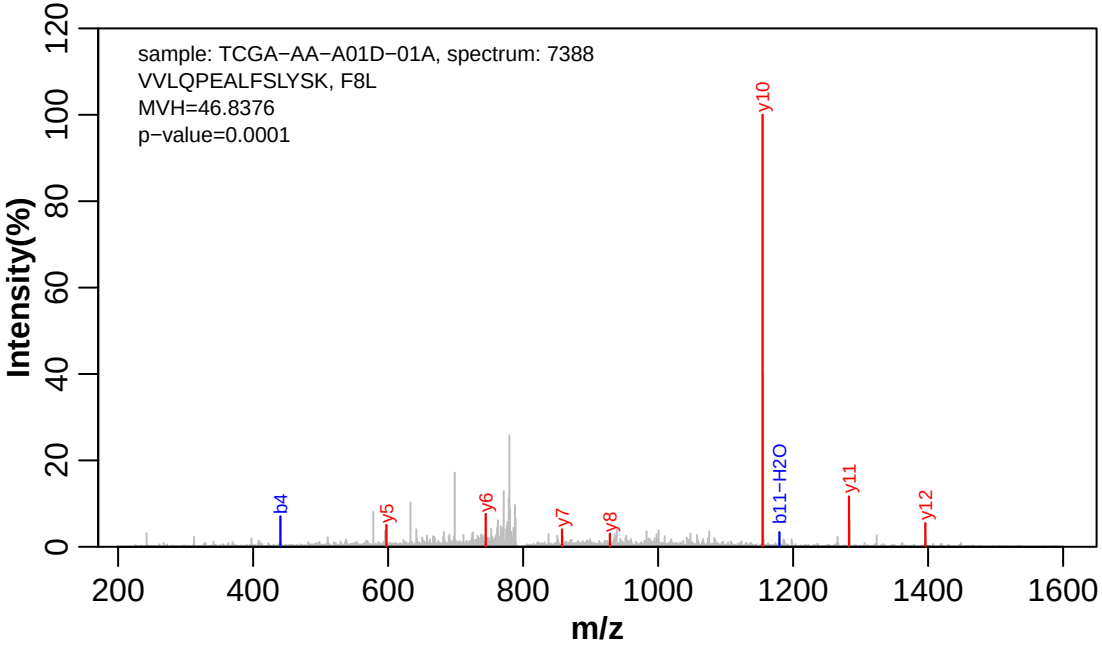

sample: TCGA−AA−A01D−01A, spectrum: 87341
TTPLEAASSGAR, T11A
MVH=36.7688
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y4
y5
y6
y7
y9
y10

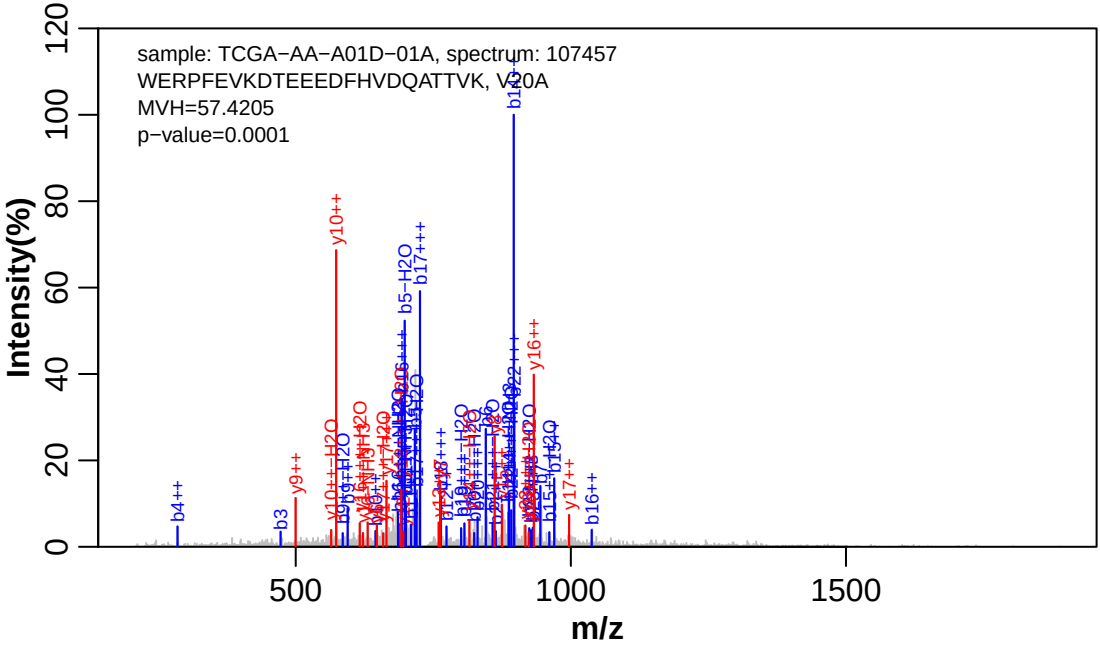

sample: TCGA−AA−A01D−01A, spectrum: 56599
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=66.9958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y8
y6
y4
y9
b16++
b18++
b21++
b22++
b23++−H2O
b17++
b14
b15−NH3
b16
b17
b18
y12
b3
y2
b4−H2O
y3
b4
b12++

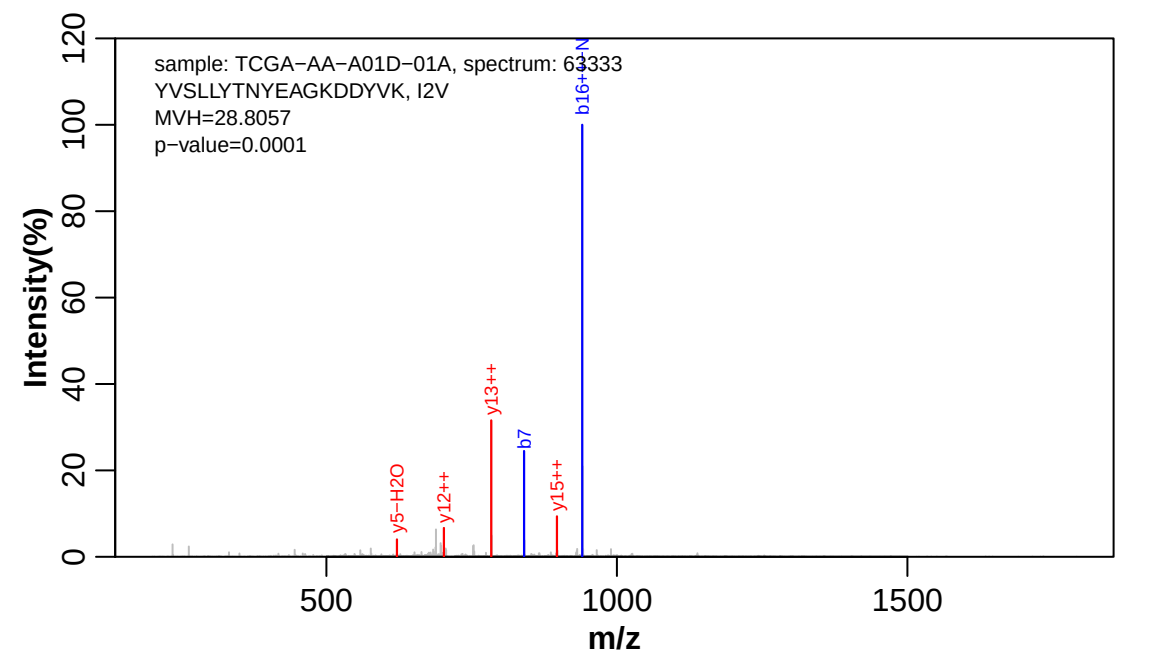

sample: TCGA−AA−A01D−01A, spectrum: 60201
TYGQVSGEALK, D2Y
MVH=45.0837
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b4−H2O
b4
y5
b5−NH3
b5−H2O
b5
y6
b6
y7
b8−NH3
b8−H2O
y8
y9−NH3
y9−H2O
b10
y9

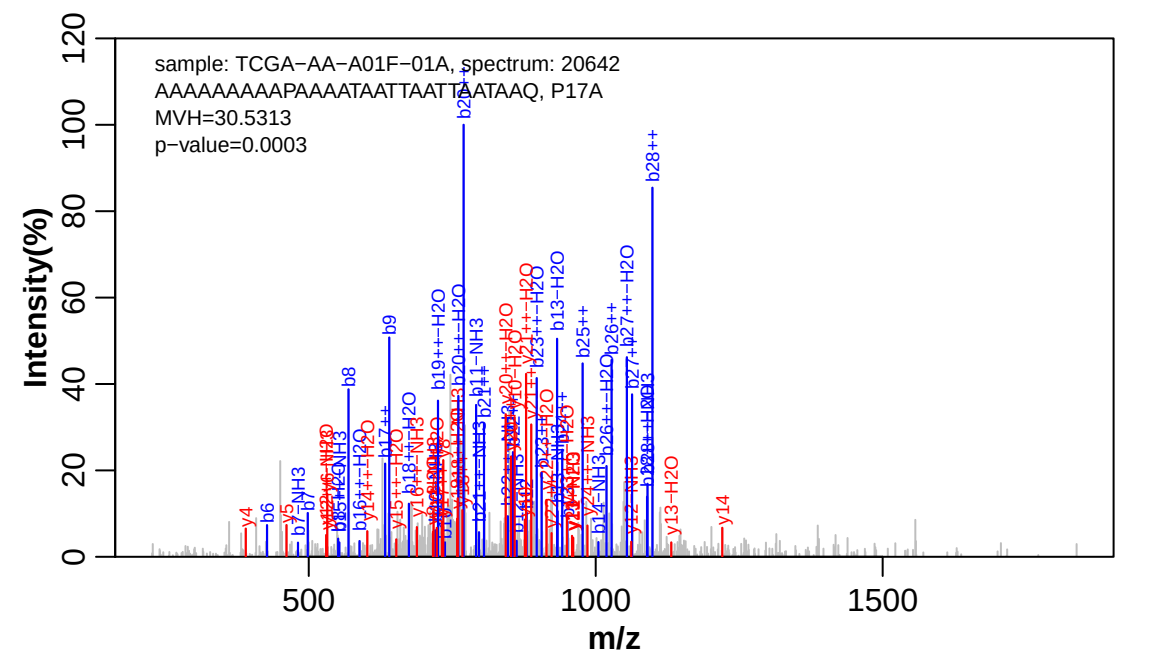

sample: TCGA−AA−A01D−01A, spectrum: 58585
VPVTQATR, L3V
MVH=33.3551
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y3
b4−H2O
b4
y4
y5
y6
y7

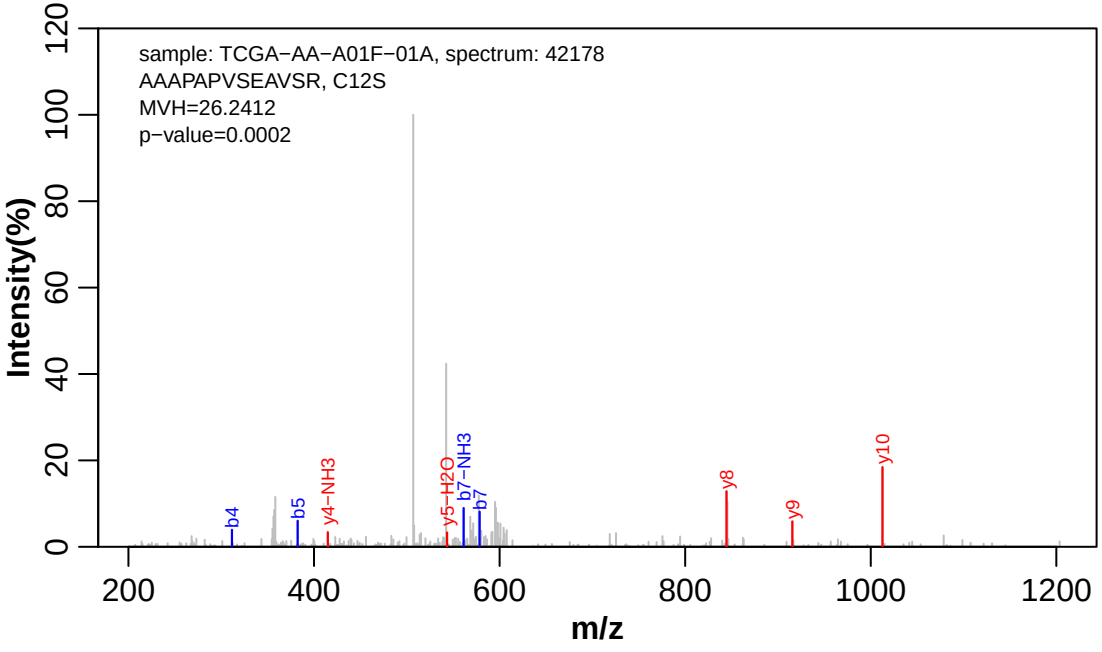

sample: TCGA−AA−A01D−01A, spectrum: 101659
VQLPTESLQELLDLHR, T7S
MVH=46.5334
p−value=0.0001
y14++
y13++
y15++−NH3
b11++
b2
b3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

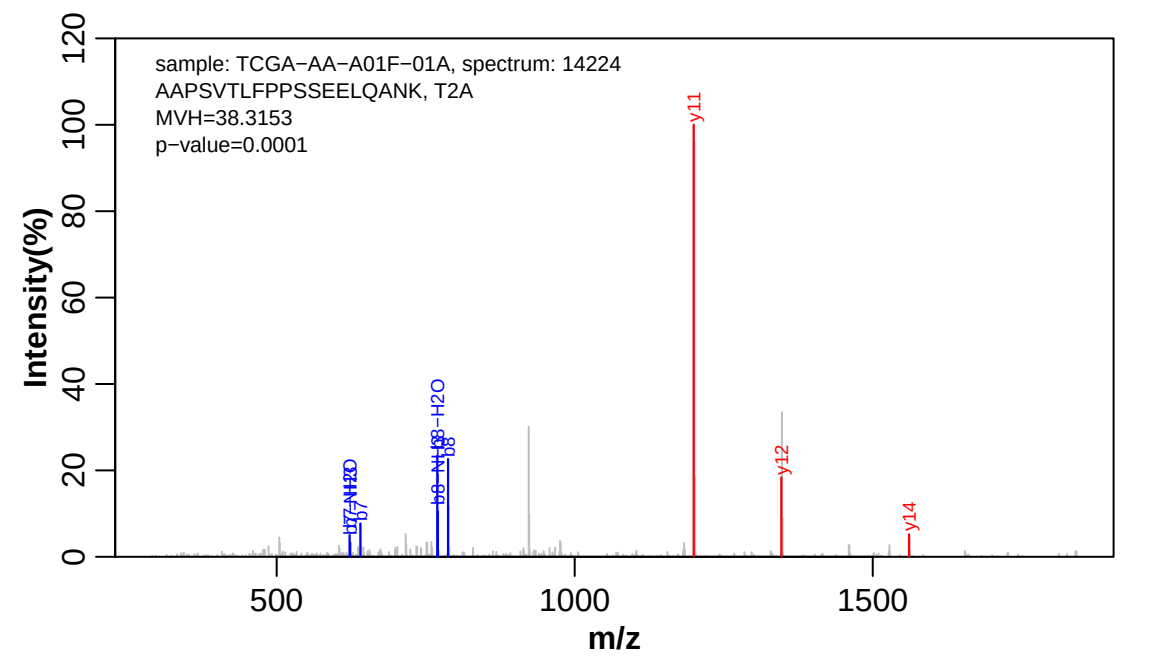

sample: TCGA−AA−A01D−01A, spectrum: 7388
VVLQPEALFSLYSK, F8L
MVH=46.8376
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
y7
y8
y10
b11−H2O
y11
y12

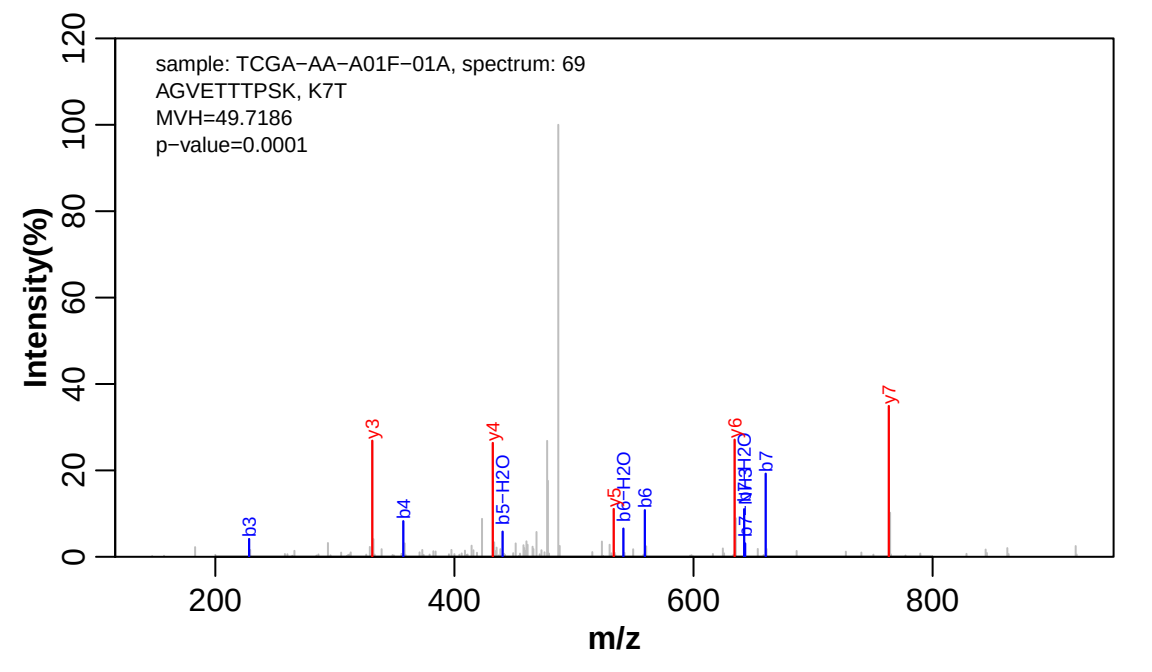

sample: TCGA−AA−A01D−01A, spectrum: 107457
WERPFEVKDTEEEDFHVDQATTVK, V20A
MVH=57.4205
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4++
b3
y9++
y10++
y10++−H2O
b5−H2O
b17+++
b16++
y16++
y17++
b15++−H2O

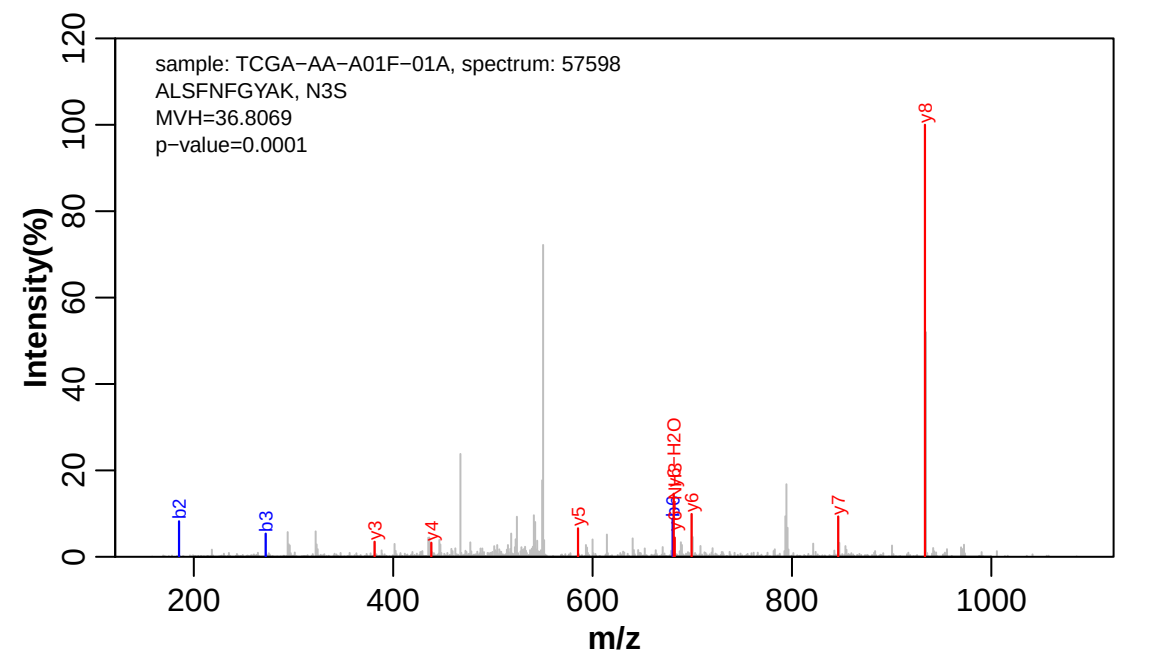

sample: TCGA−AA−A01D−01A, spectrum: 63333
YVSLLYTNYEAGKDDYVK, I2V
MVH=28.8057
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

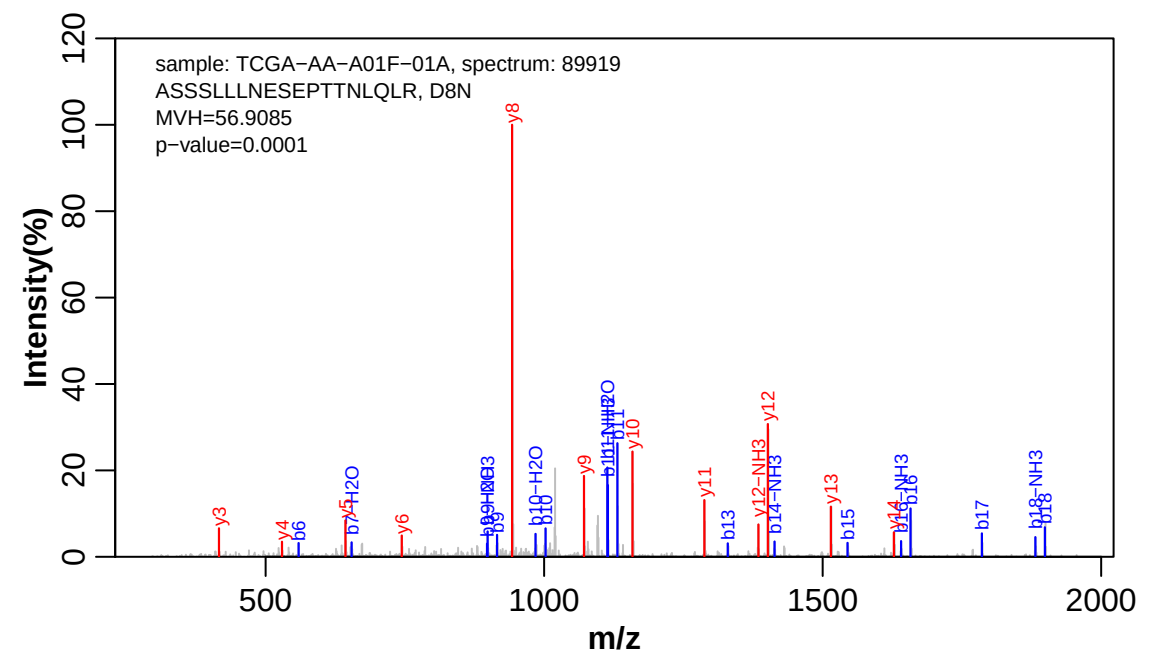

sample: TCGA−AA−A01F−01A, spectrum: 20642
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=30.5313
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b9
b8
b2++
b19++−H2O
b20++−H2O
b11−NH3
b13−H2O
b25++
b26++
b27++−H2O
y4
b6
y5
b7−NH3
b7
y14
y13−H2O

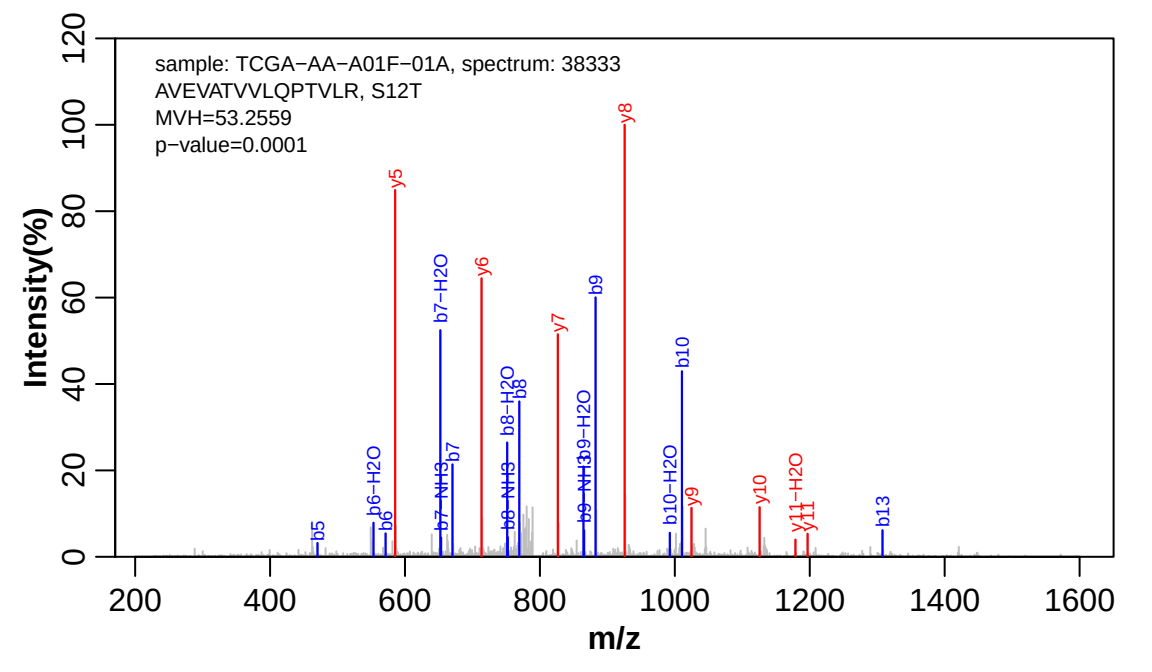

sample: TCGA−AA−A01F−01A, spectrum: 42178
AAAPAPVSEAVSR, C12S
MVH=26.2412
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b4
b5
y4−NH3
y5−H2O
b7−NH3
b7
y8
y9
y10

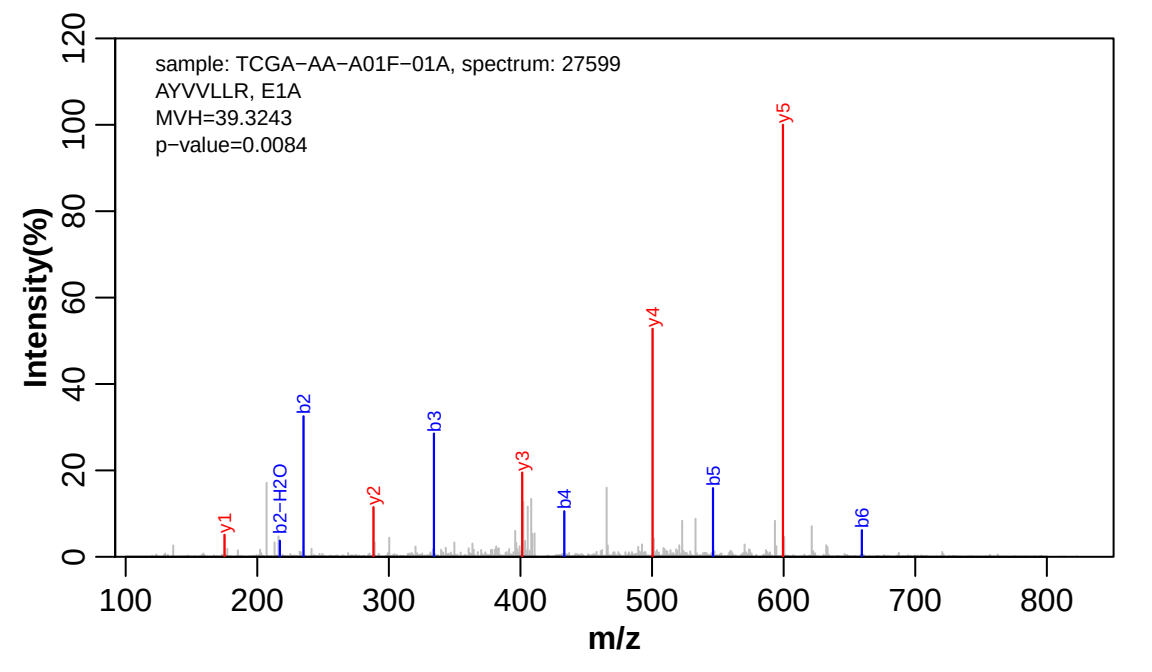

sample: TCGA−AA−A01F−01A, spectrum: 14224
AAPSVTLFPPSSEELQANK, T2A
MVH=38.3153
p−value=0.0001
y11
y12
y14
b8−NH3−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

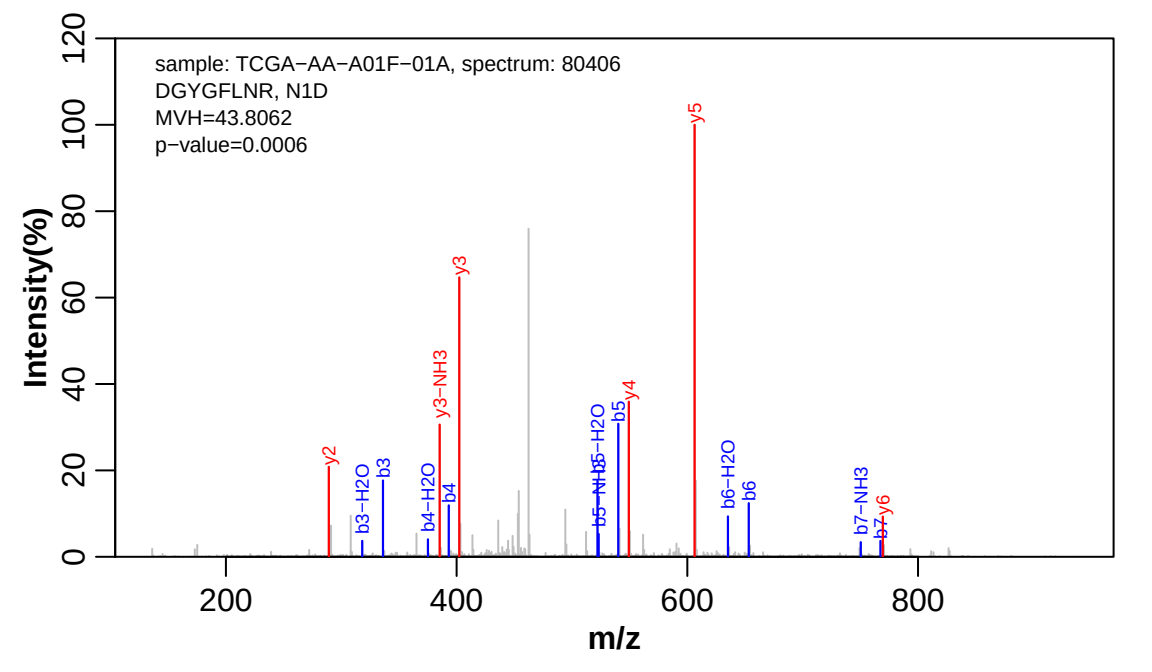

sample: TCGA−AA−A01F−01A, spectrum: 69
AGVETTTPSK, K7T
MVH=49.7186
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7

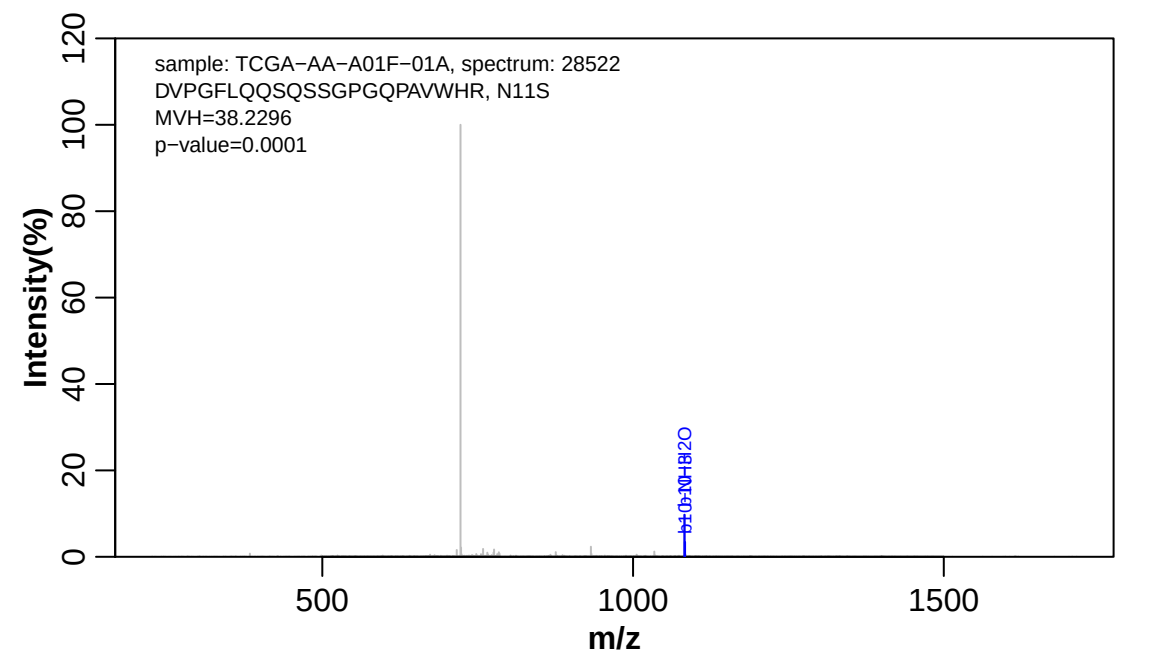

sample: TCGA−AA−A01F−01A, spectrum: 57598
ALSFNFGYAK, N3S
MVH=36.8069
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y3
y4
y5
y6
y7
y8

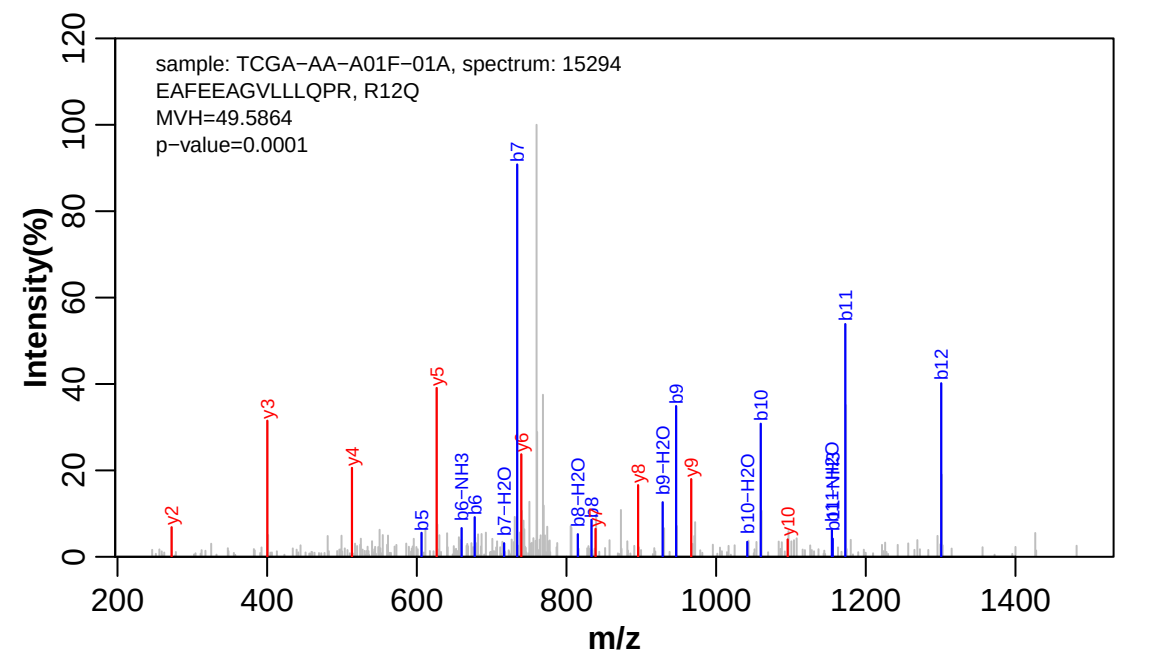

sample: TCGA−AA−A01F−01A, spectrum: 89919
ASSSLLLNESEPTTNLQLR, D8N
MVH=56.9085
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b6
b7−H2O
y5
y6
b9−H2O
b9−NH3
b9
b10−H2O
b10
y8
y9
b11−H2O
b11−NH3
b11
y10
y11
b13
y12−NH3
y12
b14−NH3
y13
b15
y14
b16−NH3
b16
b17
b18−NH3
b18

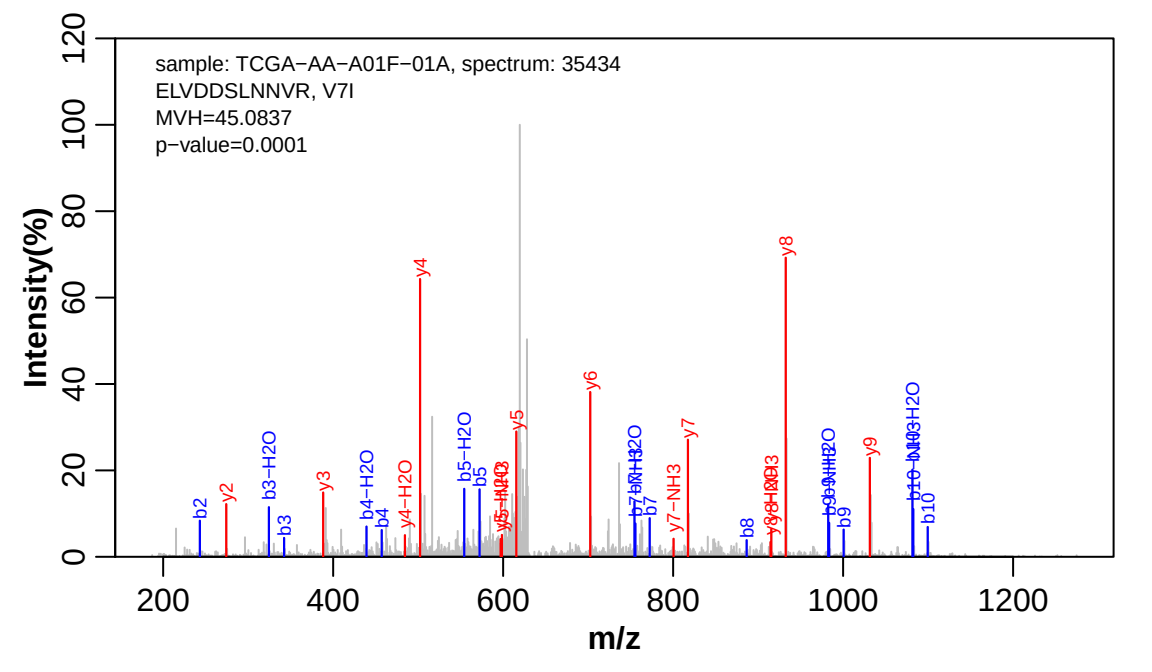

sample: TCGA−AA−A01F−01A, spectrum: 38333
AVEVATVVLQPTVLR, S12T
MVH=53.2559
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5
b6−H2O
b6
b7−NH3
b7
b7−H2O
y5
y6
b8−NH3
b8−H2O
b8
b9−NH3
b9−H2O
b9
y7
y8
b10−H2O
b10
y9
y10
y11−H2O
y11
b13

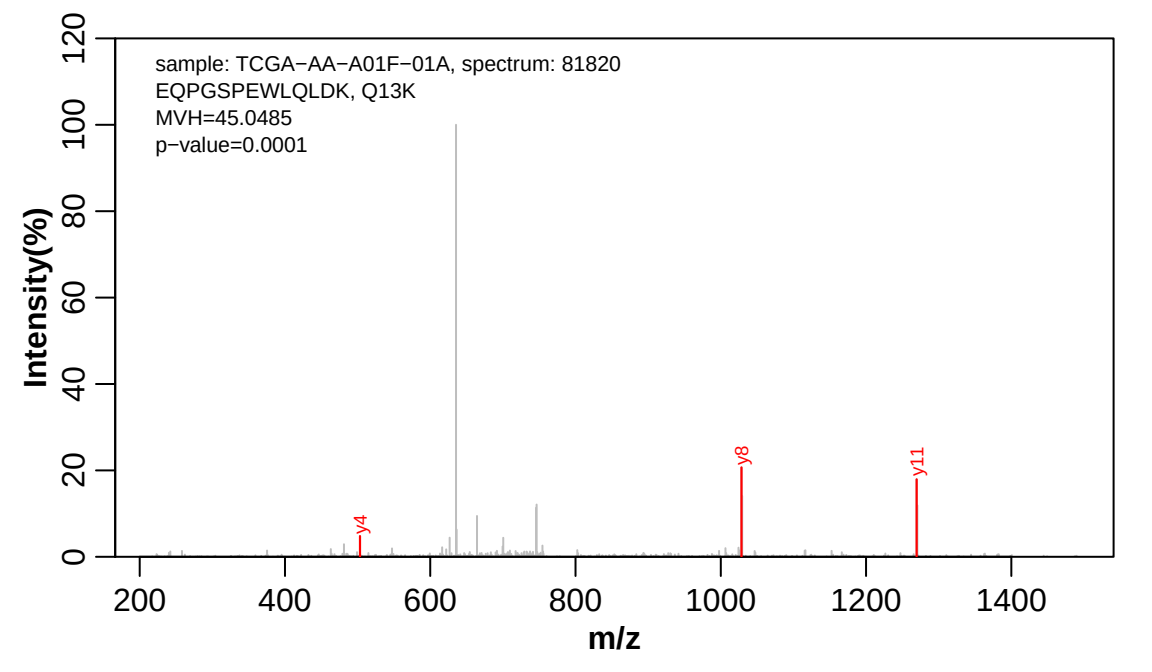

sample: TCGA−AA−A01F−01A, spectrum: 27599
AYVVLLR, E1A
MVH=39.3243
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

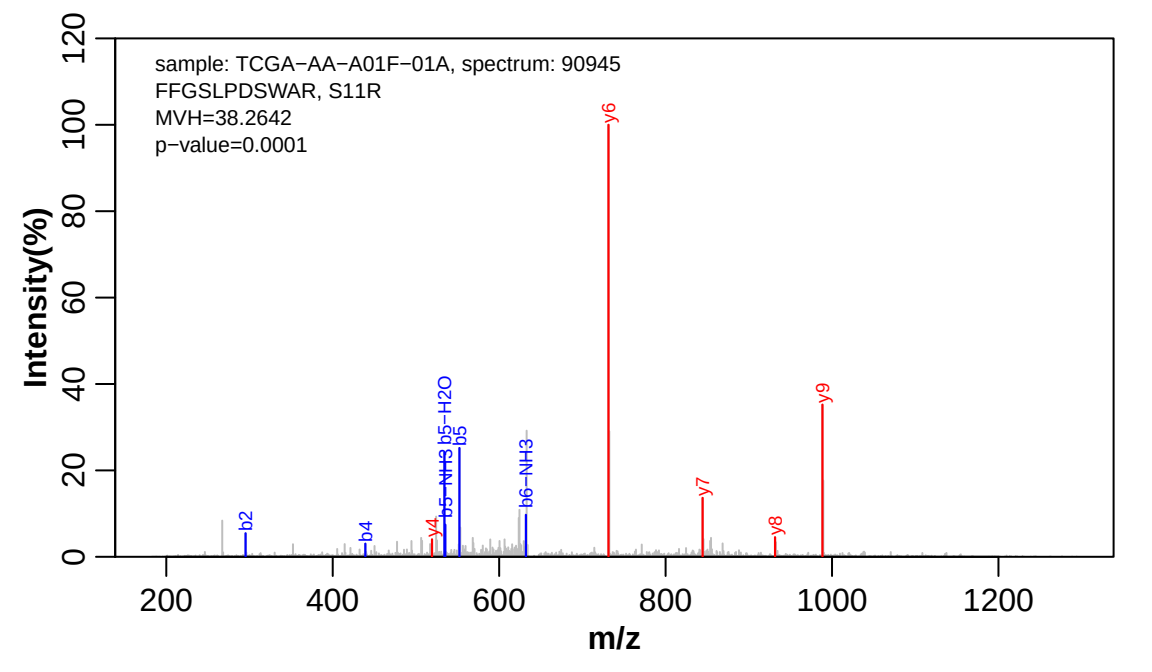

sample: TCGA−AA−A01F−01A, spectrum: 80406
DGYGFLNR, N1D
MVH=43.8062
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y2
b3−H2O
b3
y3−NH3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−NH3
b7
y6

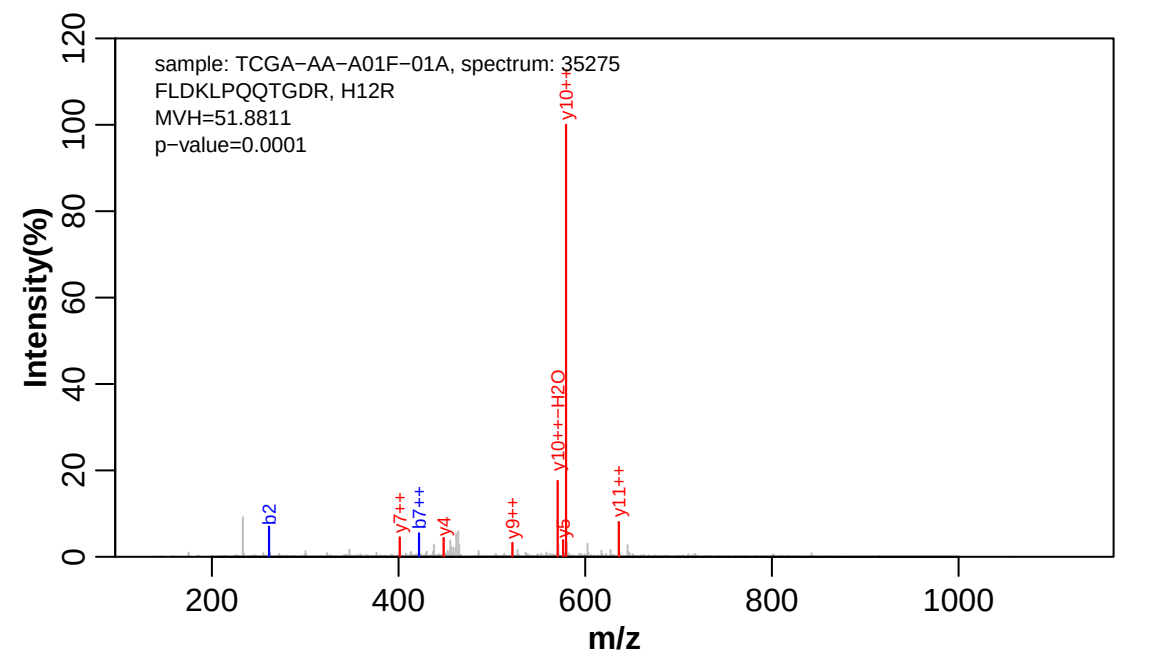

sample: TCGA−AA−A01F−01A, spectrum: 28522
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=38.2296
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

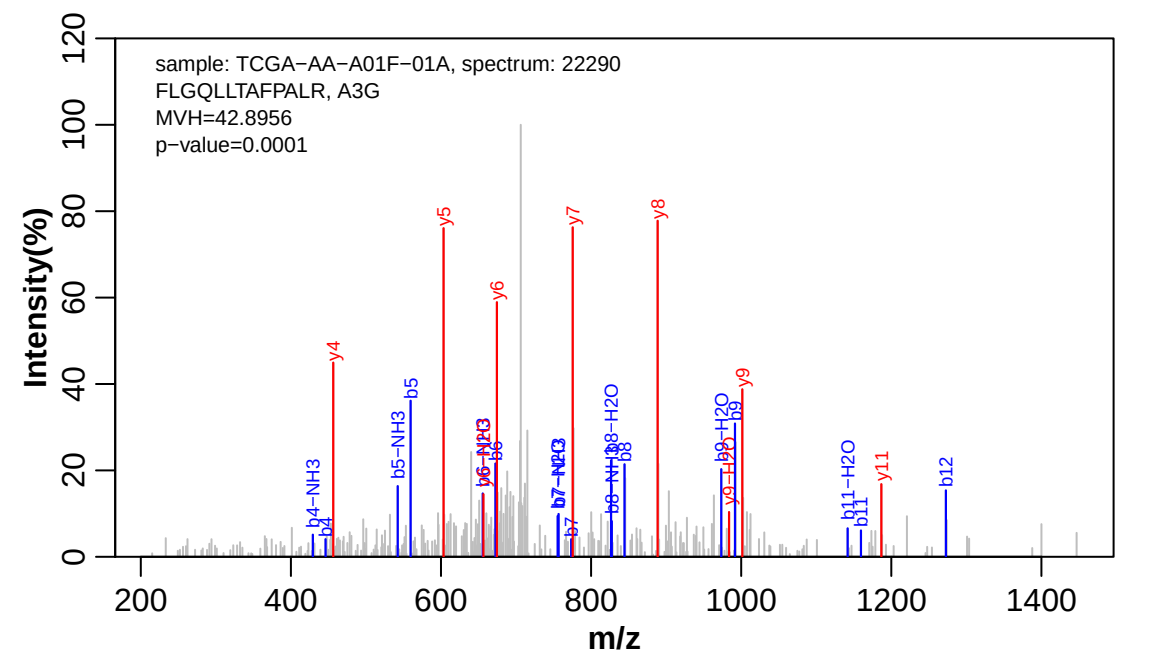

sample: TCGA−AA−A01F−01A, spectrum: 15294
EAFEEAGVLLLQPR, R12Q
MVH=49.5864
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y2
y3
y4
y5
b5
b6−NH3
b6
b7−H2O
b7
y6
b8−H2O
y7
y8
b9−H2O
b9
y9
b10−H2O
b10
y10
b11
b12

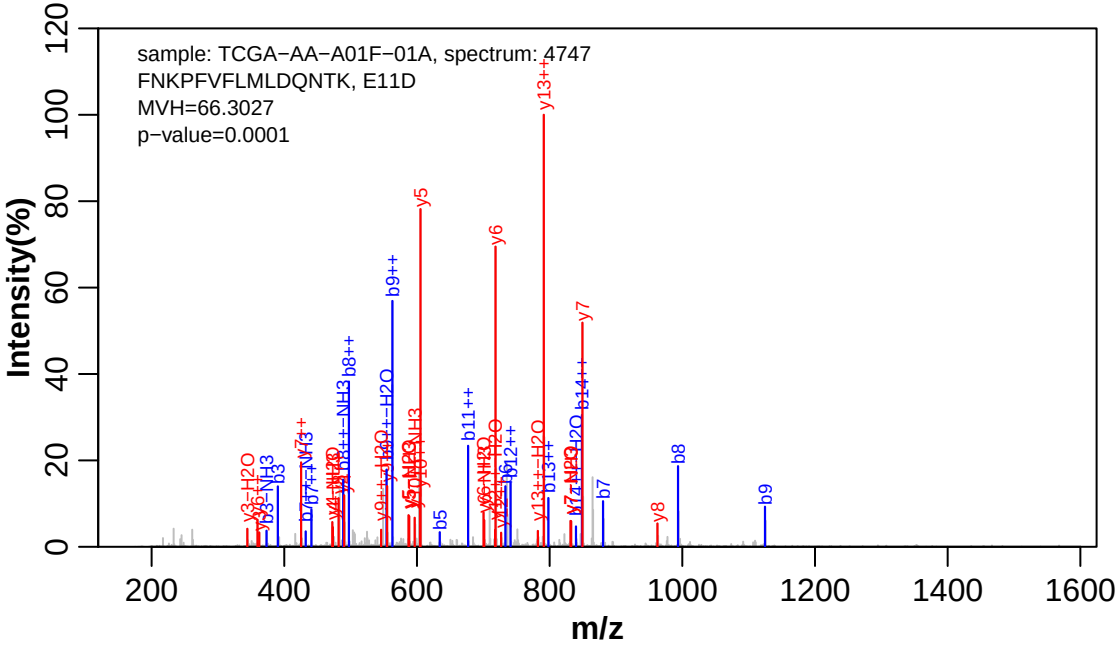

sample: TCGA−AA−A01F−01A, spectrum: 35434
ELVDDSLNNVR, V7I
MVH=45.0837
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
b5−H2O
b5
y5−H2O
y5
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7
b8
y8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

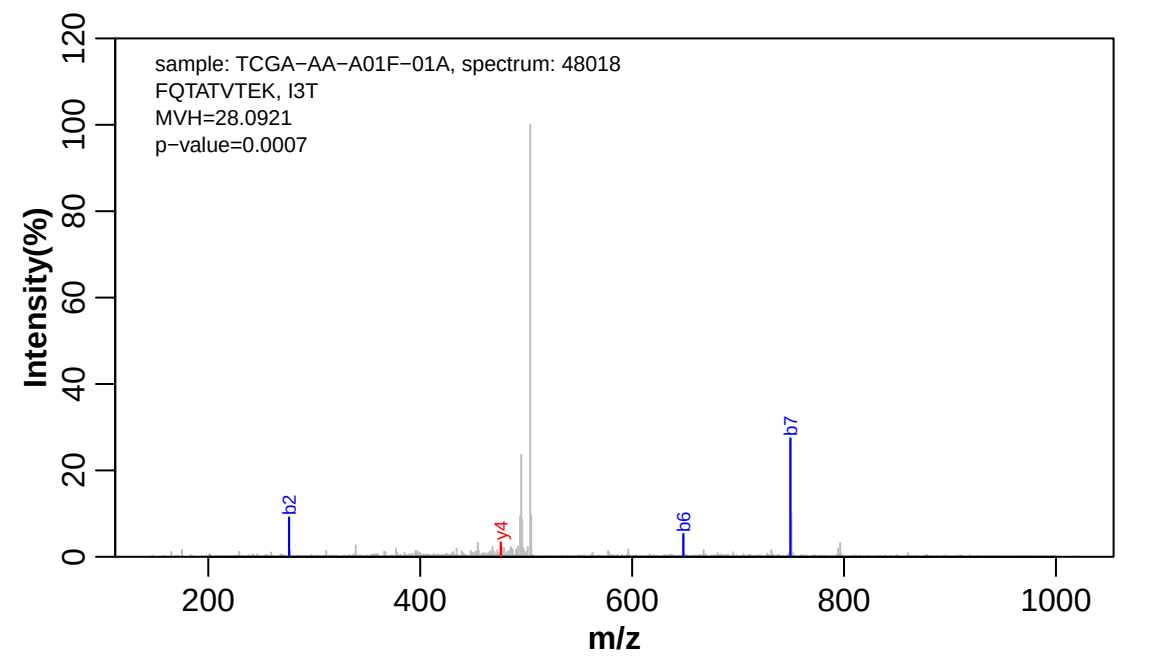

sample: TCGA−AA−A01F−01A, spectrum: 81820
EQPGSPEWLQLDK, Q13K
MVH=45.0485
p−value=0.0001
y4
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

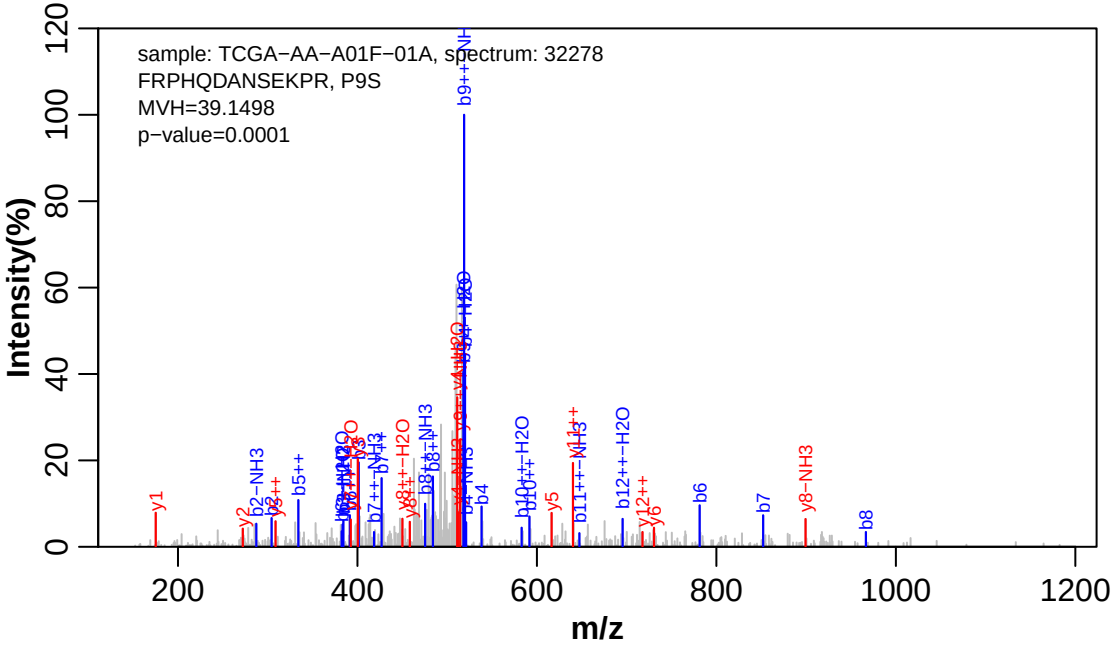

sample: TCGA−AA−A01F−01A, spectrum: 90945
FFGSLPDSWAR, S11R
MVH=38.2642
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

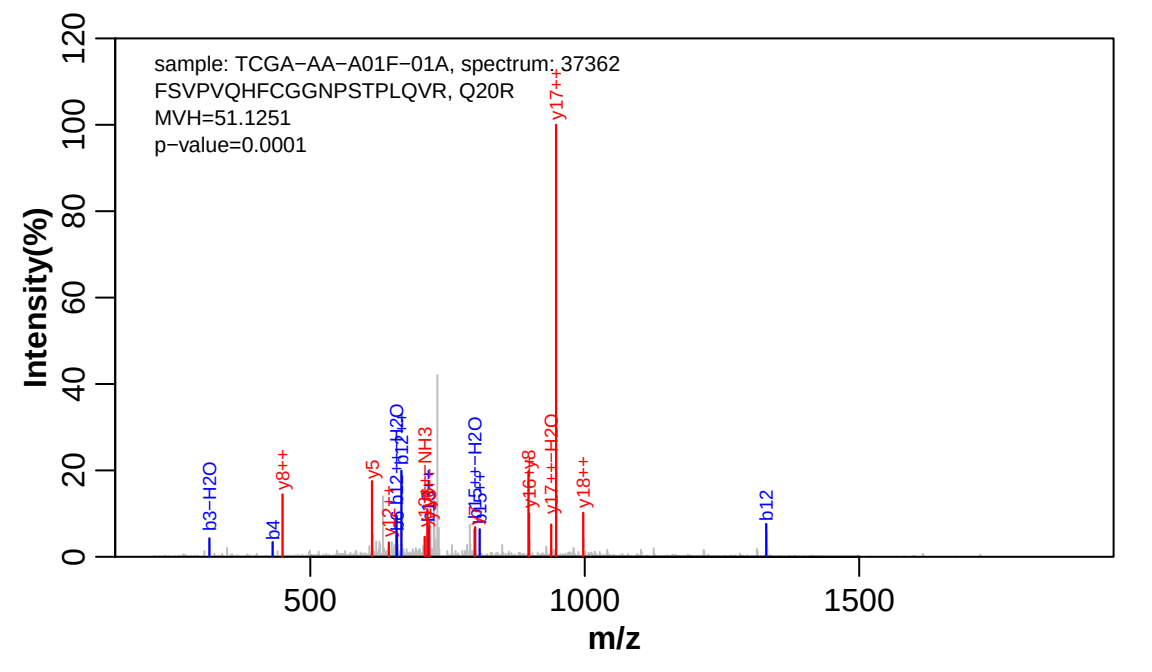

sample: TCGA−AA−A01F−01A, spectrum: 35275
FLDKLPQQTGDR, H12R
MVH=51.8811
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y7++
b7++
y4
y9++
y10++−H2O
y10++
y11++

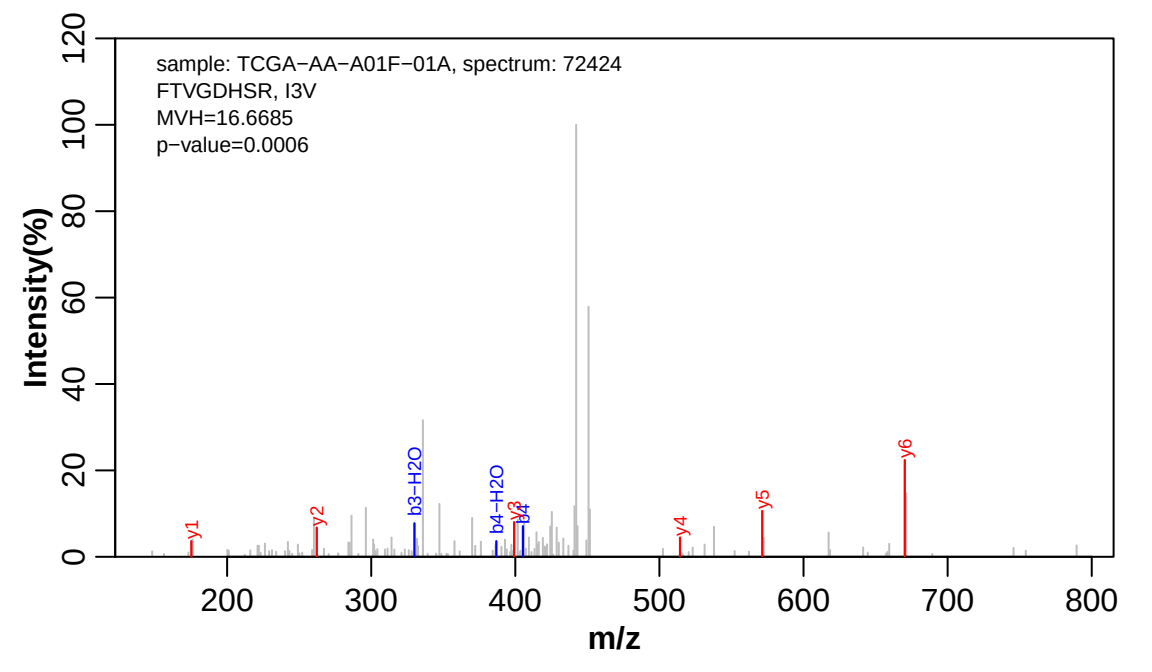

sample: TCGA−AA−A01F−01A, spectrum: 22290
FLGQLLTAFPALR, A3G
MVH=42.8956
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b4−NH3
b4
b5
b5−NH3
y5
y6
y7
y8
b8−H2O
b8
y9
y9−H2O
b9
b9−H2O
b11−H2O
b11
y11
b12

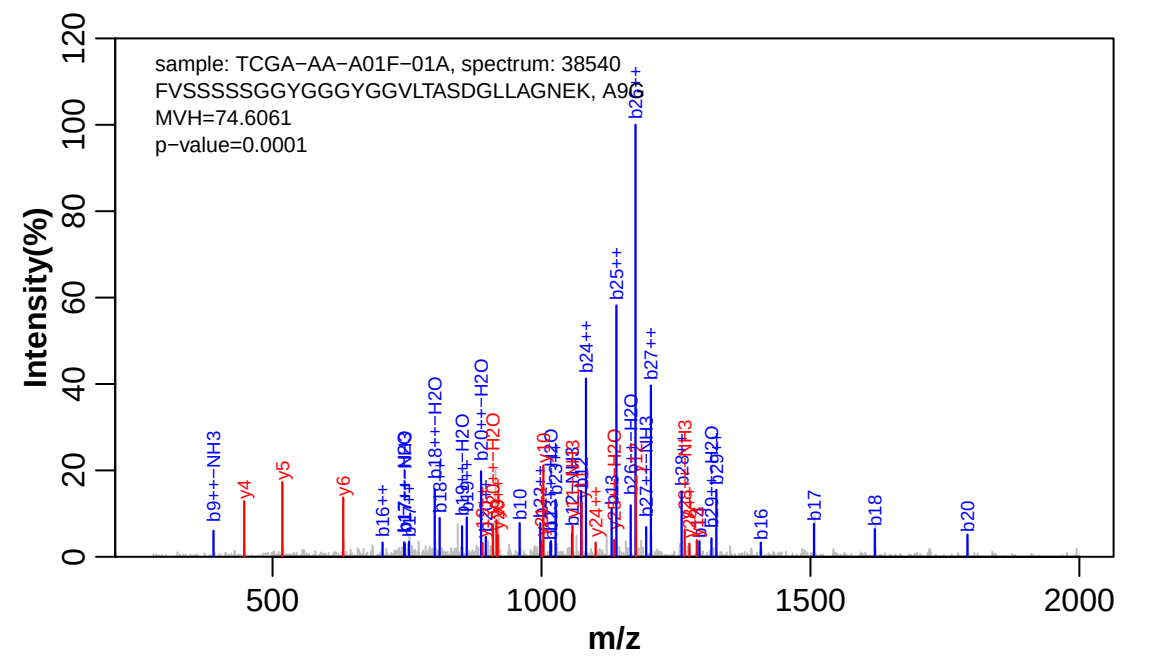

sample: TCGA−AA−A01F−01A, spectrum: 4747
FNKPFVFLMLDQNTK, E11D
MVH=66.3027
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
y5
y6
y7
b9++
b8++
b11++
b14++
b8
b7
b9
y8
b5
b3
y13++−H2O
y13++−NH3
y12++
b12++
y3−H2O
y3−NH3
b3−NH3
b7−NH3
b7−H2O
y8−H2O
y8−NH3
y7−H2O
y7−NH3
b8−H2O
b8−NH3
b9−H2O
b9−NH3
b11++−H2O
b11++−NH3
b12++−H2O
b12++−NH3
b14++−H2O
b14++−NH3

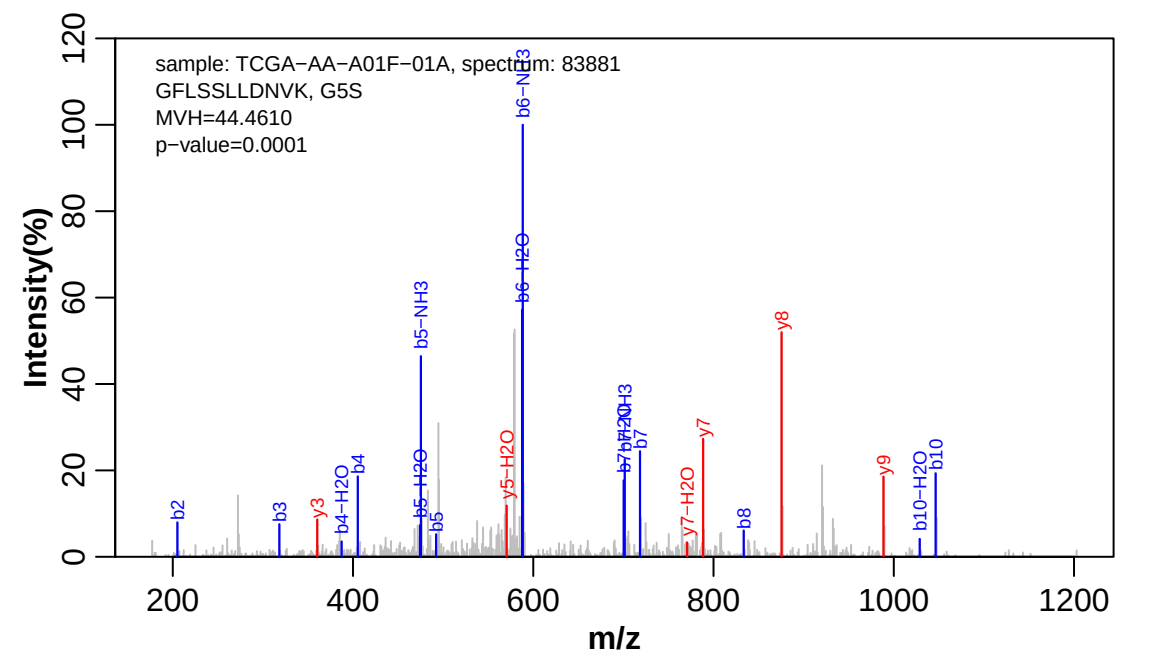

sample: TCGA−AA−A01F−01A, spectrum: 48018
FQTATVTEK, I3T
MVH=28.0921
p−value=0.0007
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y4
b6
b7

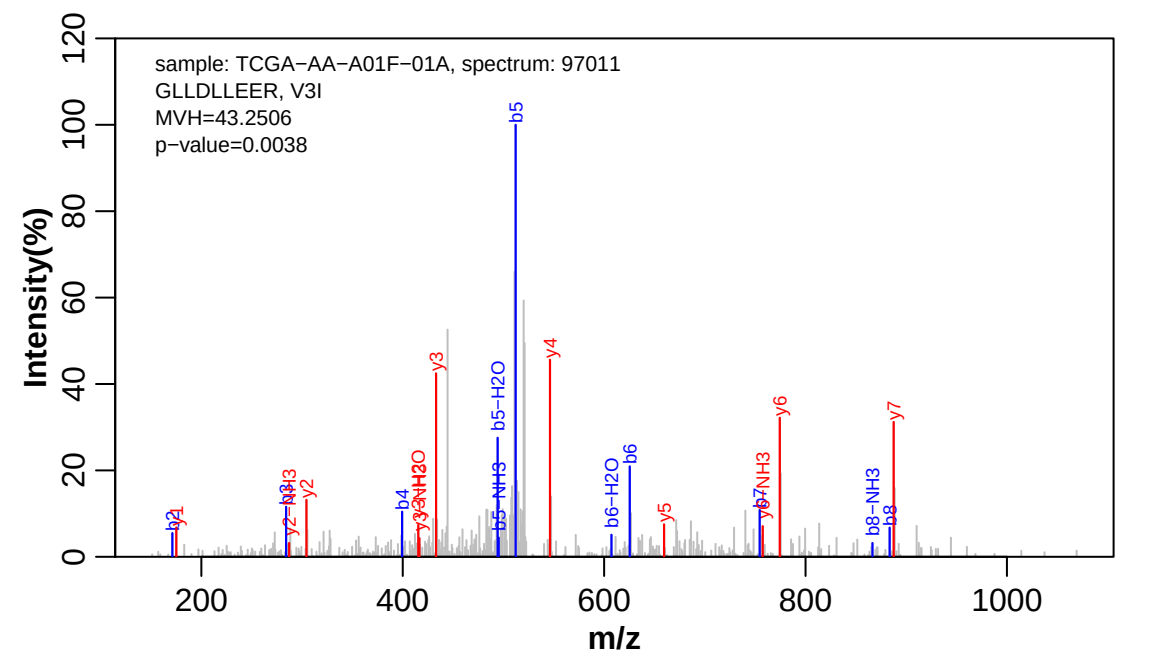

sample: TCGA−AA−A01F−01A, spectrum: 32278
FRPHQDANSEKPR, P9S
MVH=39.1498
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2
b2−NH3
b2++
b5++
b9++−NH3
b4
b10++−H2O
b10++
y5
b11++−NH3
b11++
b12++−H2O
y12++
y6
b6
b7
y8−NH3
b8

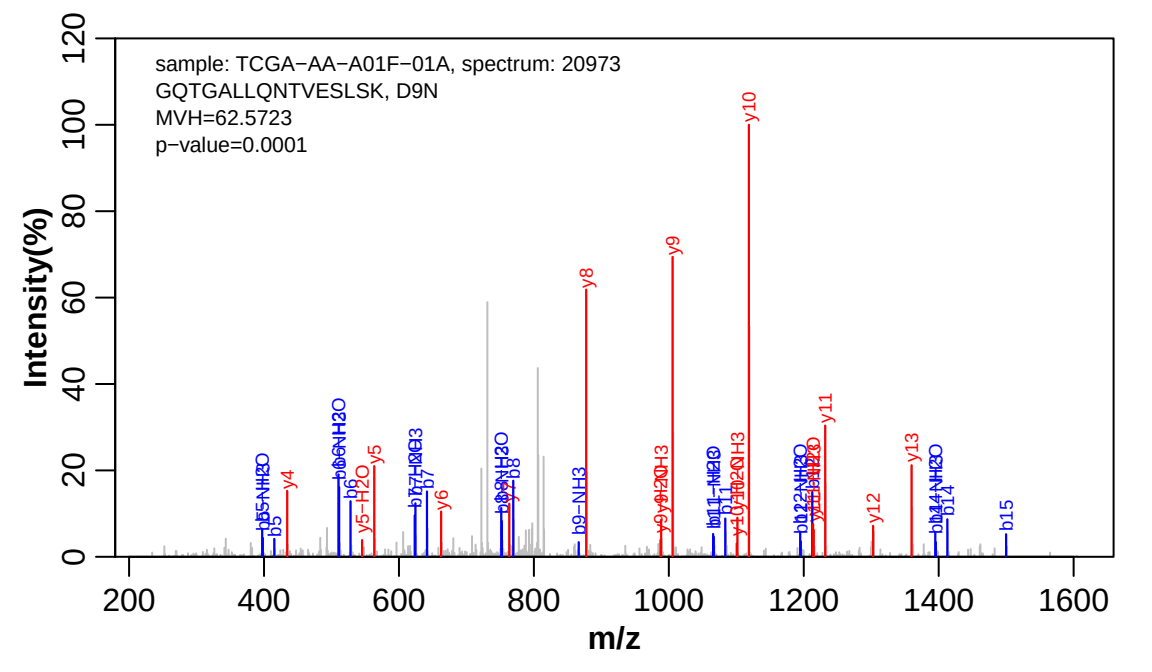

sample: TCGA−AA−A01F−01A, spectrum: 37362
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=51.1251
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b4
y8++
y5
b12++
b12−H2O
b12−NH3
y15++−H2O
y16+y8
y17++−H2O
y17++
y18++
b12

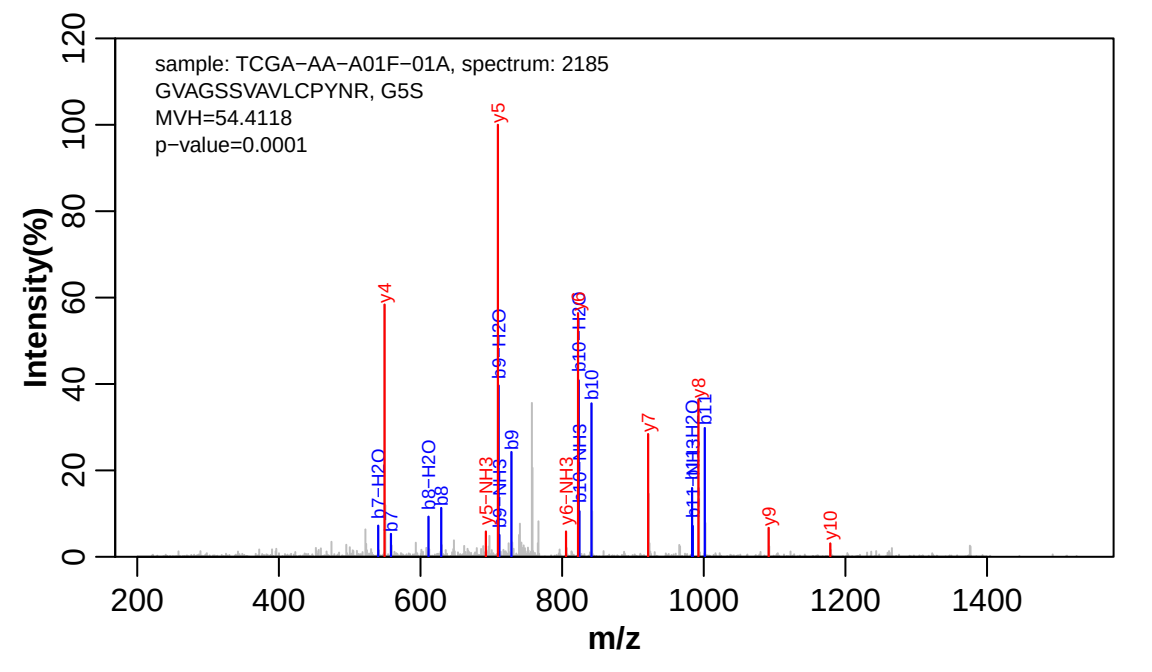

sample: TCGA−AA−A01F−01A, spectrum: 72424
FTVGDHSR, I3V
MVH=16.6685
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
300
400
500
600
700
800
y1
y2
b3−H2O
b4−H2O
y3
b4
y4
y5
y6

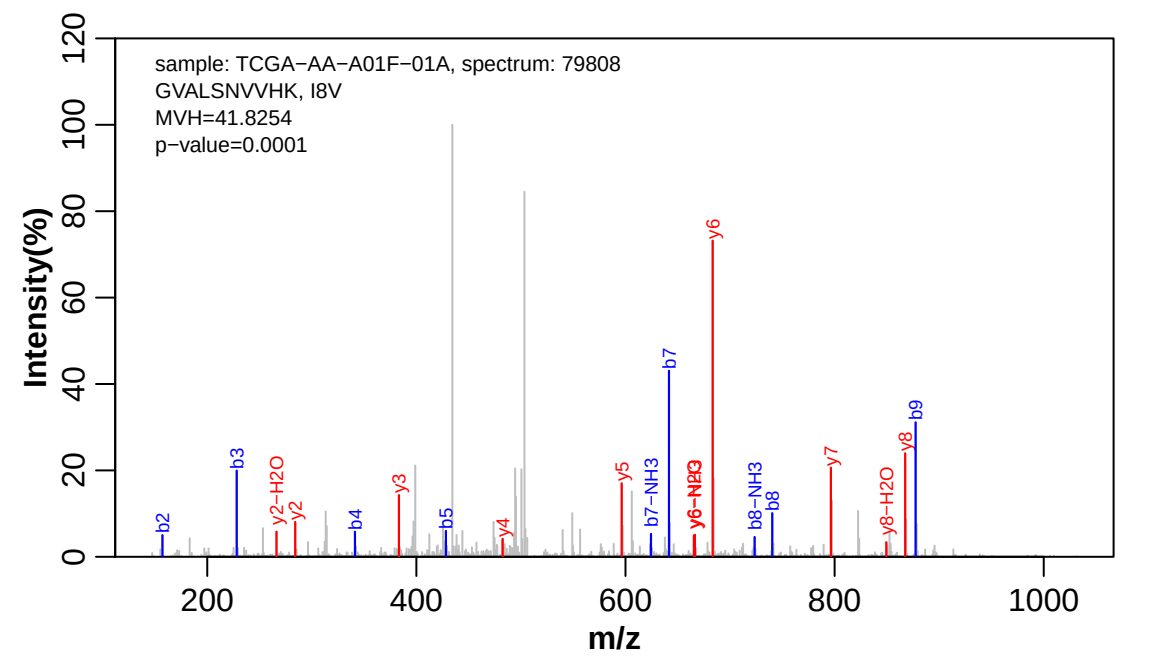

sample: TCGA−AA−A01F−01A, spectrum: 38540
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=74.6061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y6
b16++
b18++−H2O
b19++−H2O
b20++−H2O
b10
b24++
b25++
b26++
b27++
b17
b18
b20

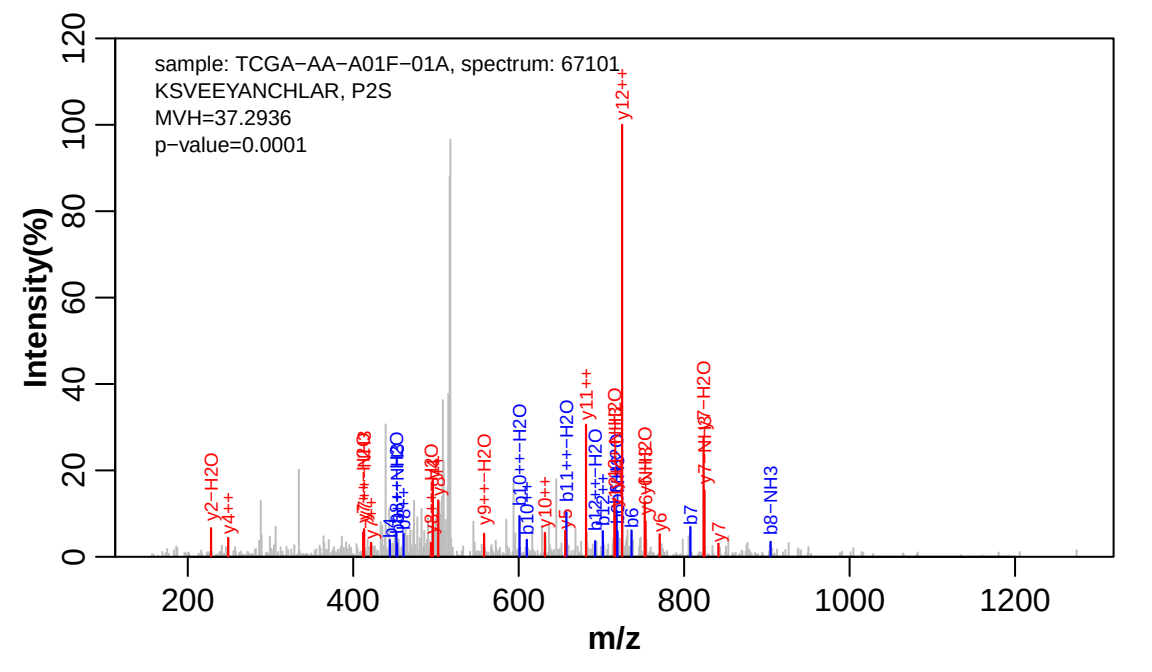

sample: TCGA−AA−A01F−01A, spectrum: 83881
GFLSSLLDNVK, G5S
MVH=44.4610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y5−H2O
b6−NH3
b6−H2O
b7
y7−H2O
y7
b8
y8
y9
b10−H2O
b10

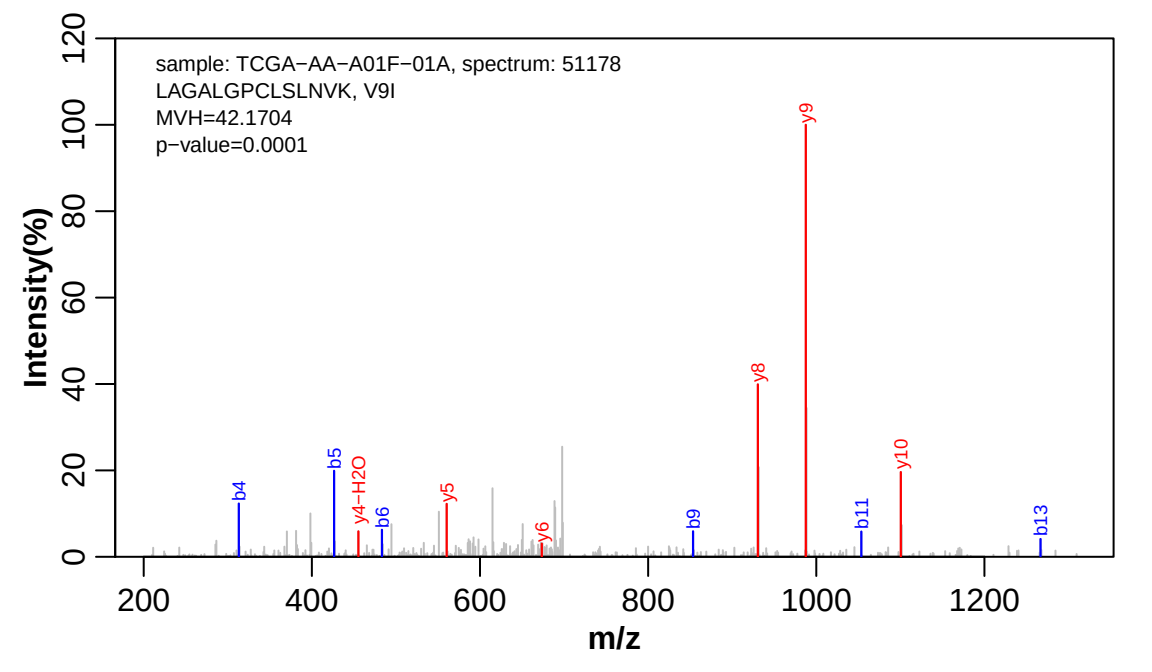

sample: TCGA−AA−A01F−01A, spectrum: 97011
GLLDLLEER, V3I
MVH=43.2506
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2−NH3
y2
b4
y3−NH3
y3
y3−H2O
b5−NH3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−NH3
y6
b8−NH3
b8
y7

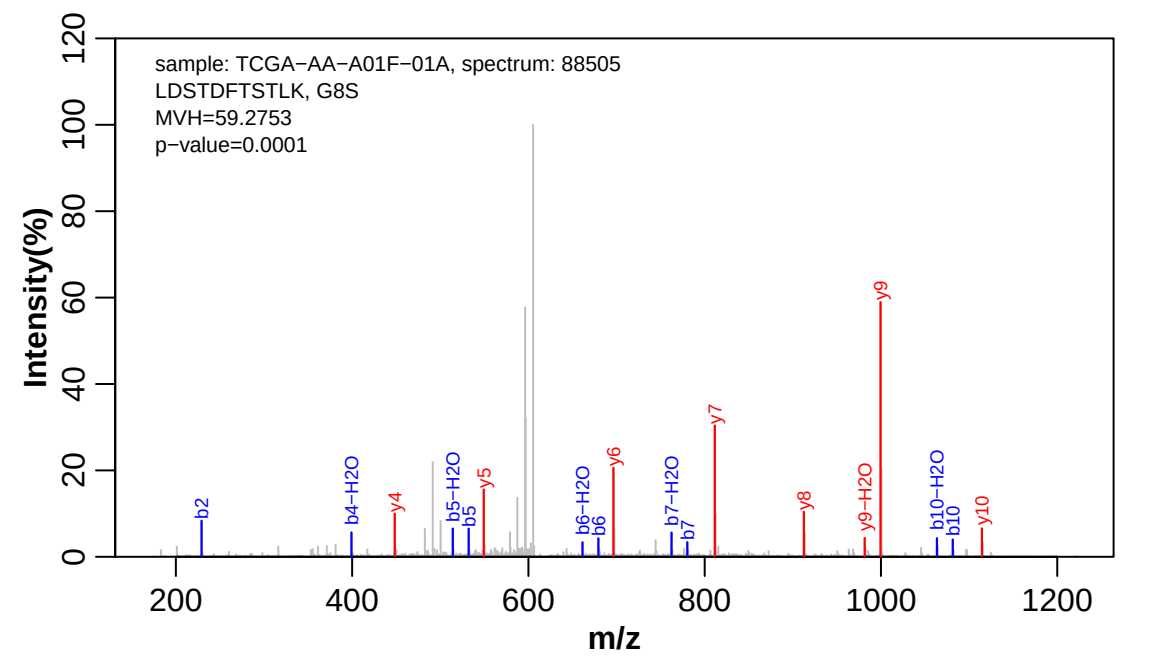

sample: TCGA−AA−A01F−01A, spectrum: 20973
GQTGALLQNTVESLSK, D9N
MVH=62.5723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
b15
y4
y5
y6
b9−NH3

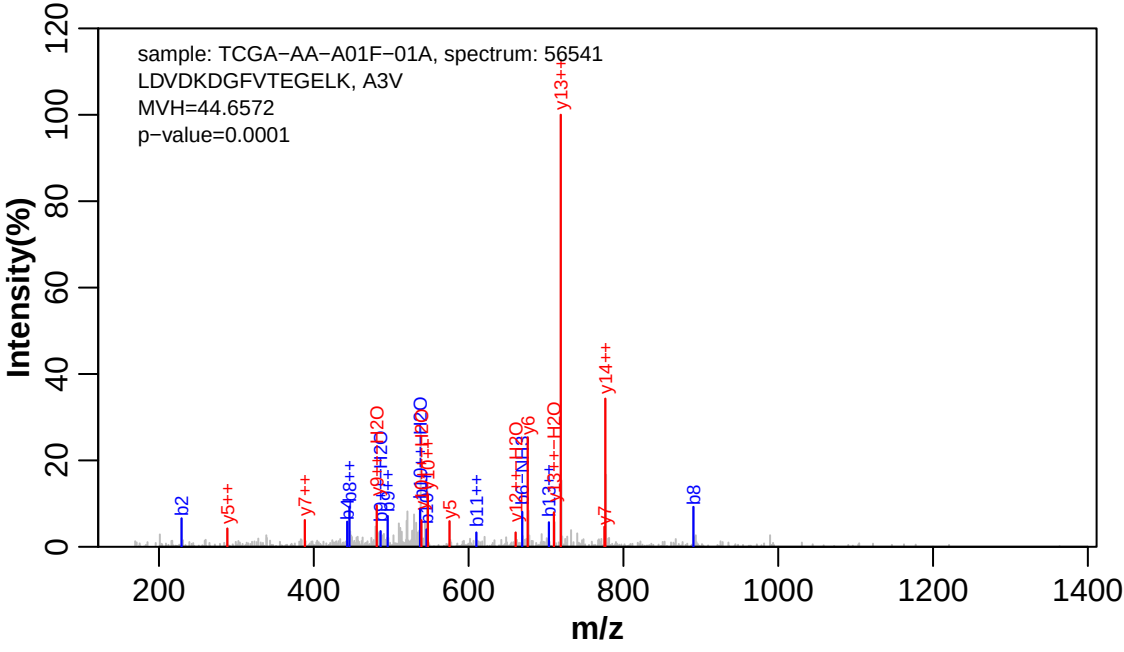

sample: TCGA−AA−A01F−01A, spectrum: 2185
GVAGSSVAVLCPYNR, G5S
MVH=54.4118
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y5−NH3
b7−H2O
b7
b8−H2O
b8
b9
b9−NH3
b9−H2O
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11
y9
y10

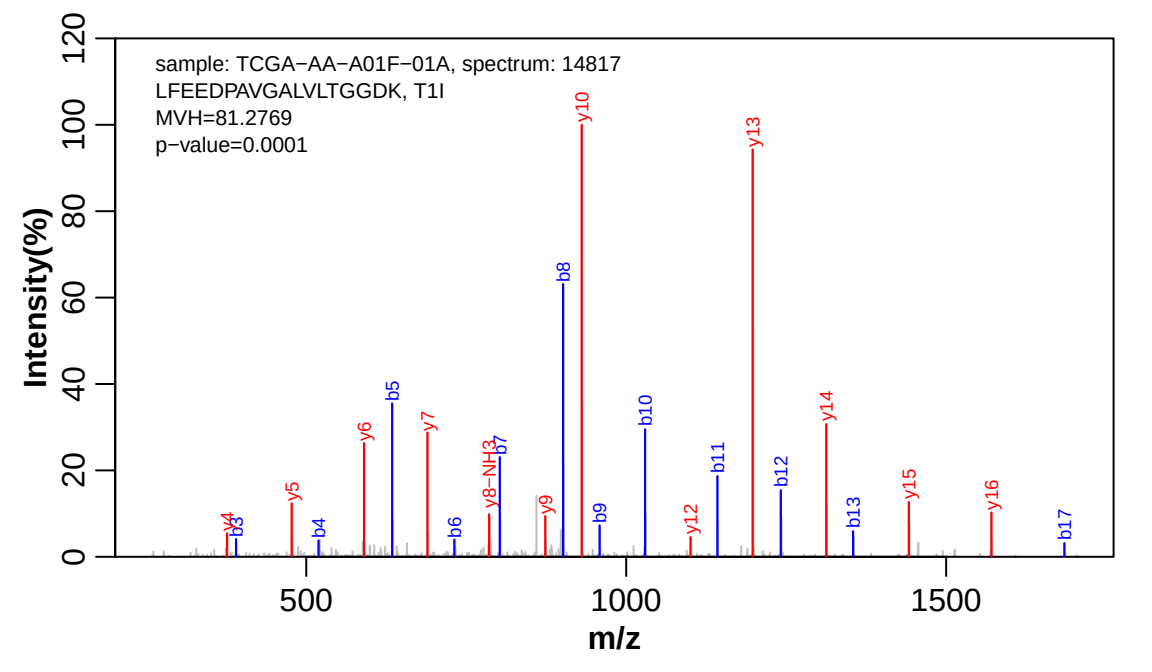

sample: TCGA−AA−A01F−01A, spectrum: 79808
GVALSNVVHK, I8V
MVH=41.8254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y2−H2O
y2
b4
y3
b5
y4
y5
b7−NH3
b7
y6−NH3
y6
b8−NH3
b8
y7
y8−H2O
y8
b9

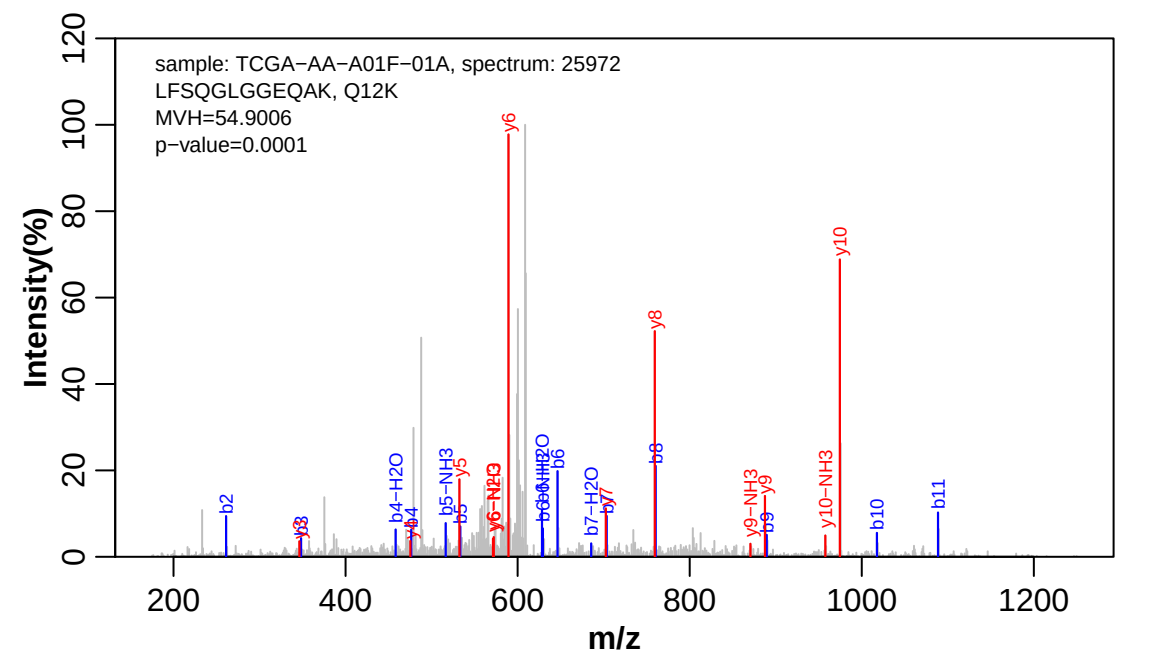

sample: TCGA−AA−A01F−01A, spectrum: 67101
KSVEEYANCHLAR, P2S
MVH=37.2936
p−value=0.0001
Intensity(%)
m/z
y12++
y2−H2O
y4++
y9++−H2O
b10++−H2O
y10++
y11++
b6
y6
b7
y7
b8−NH3

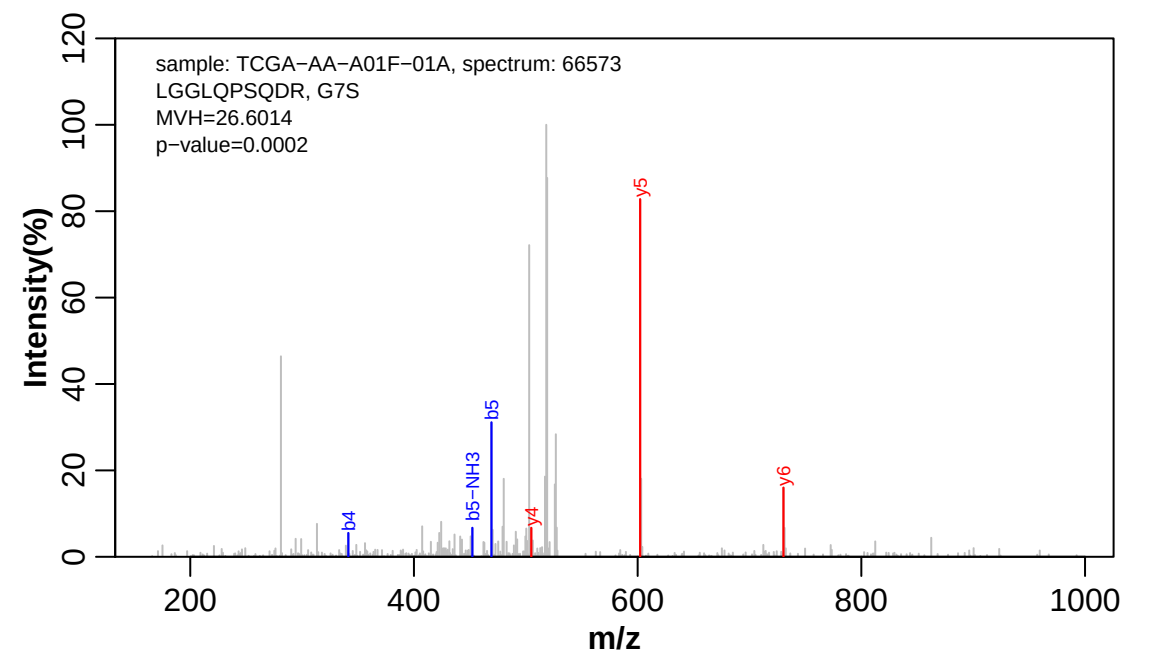

sample: TCGA−AA−A01F−01A, spectrum: 51178
LAGALGPCLSLNVK, V9I
MVH=42.1704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b4
b5
y4−H2O
b6
y5
y6
b9
y8
y9
b11
y10
b13

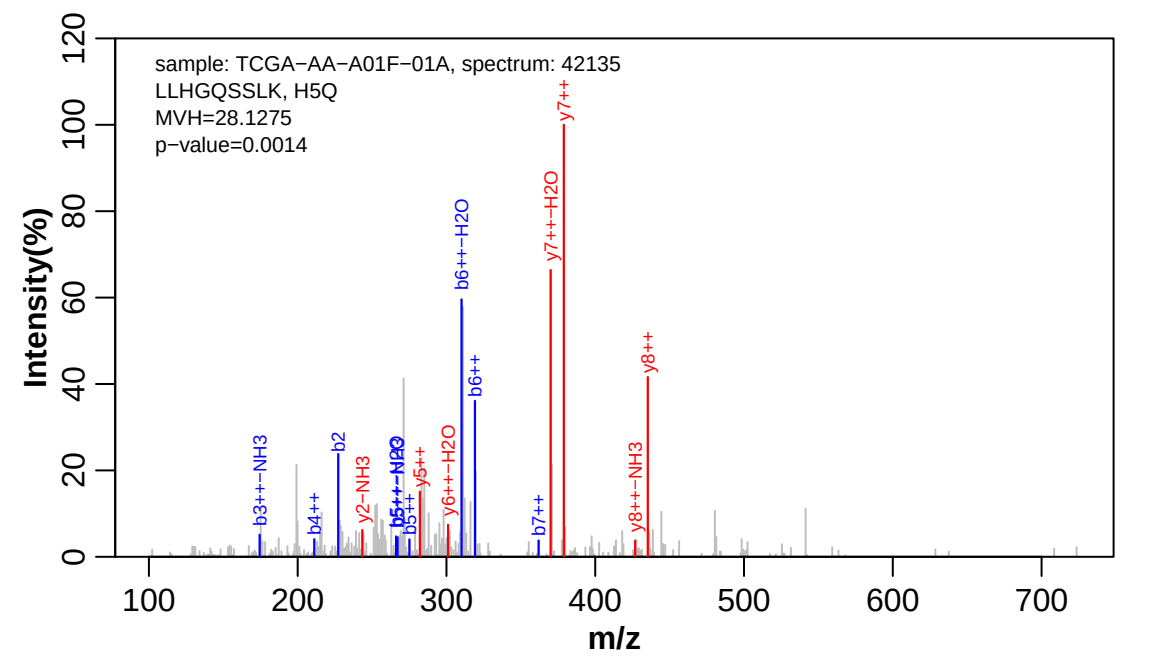

sample: TCGA−AA−A01F−01A, spectrum: 88505
LDSTDFTSTLK, G8S
MVH=59.2753
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

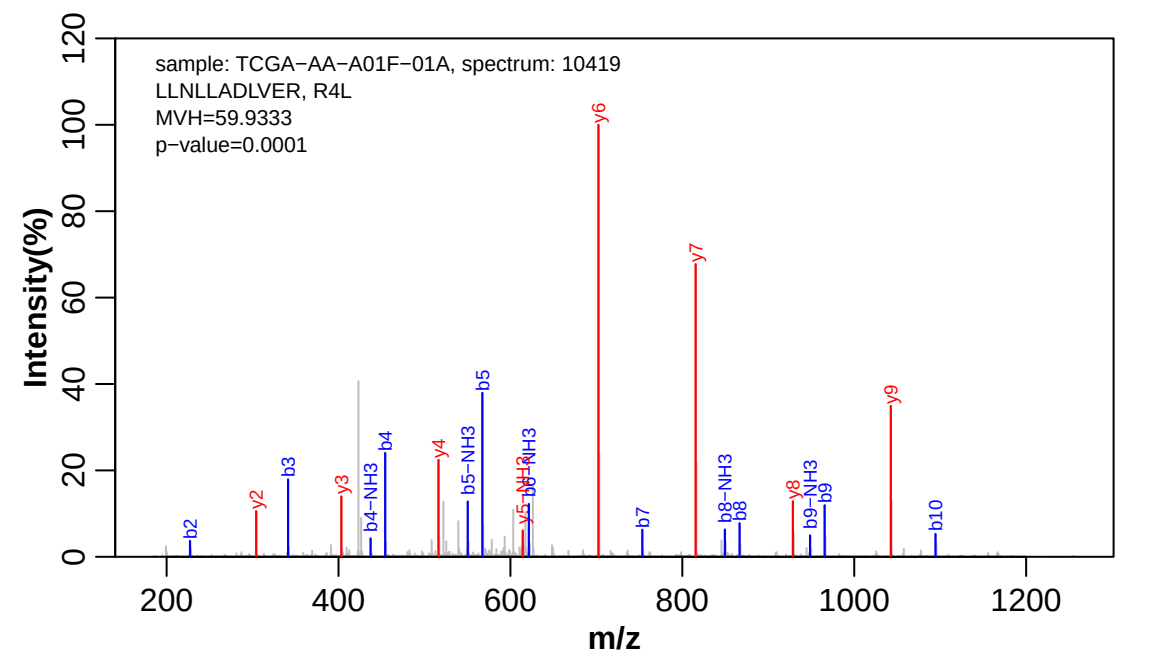

sample: TCGA−AA−A01F−01A, spectrum: 56541
LDVDKDGFVTEGELK, A3V
MVH=44.6572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y5++
y7++
b8++
b9++
y5
b11++
y7
b8
y13++
y14++
y6
y13++−H2O

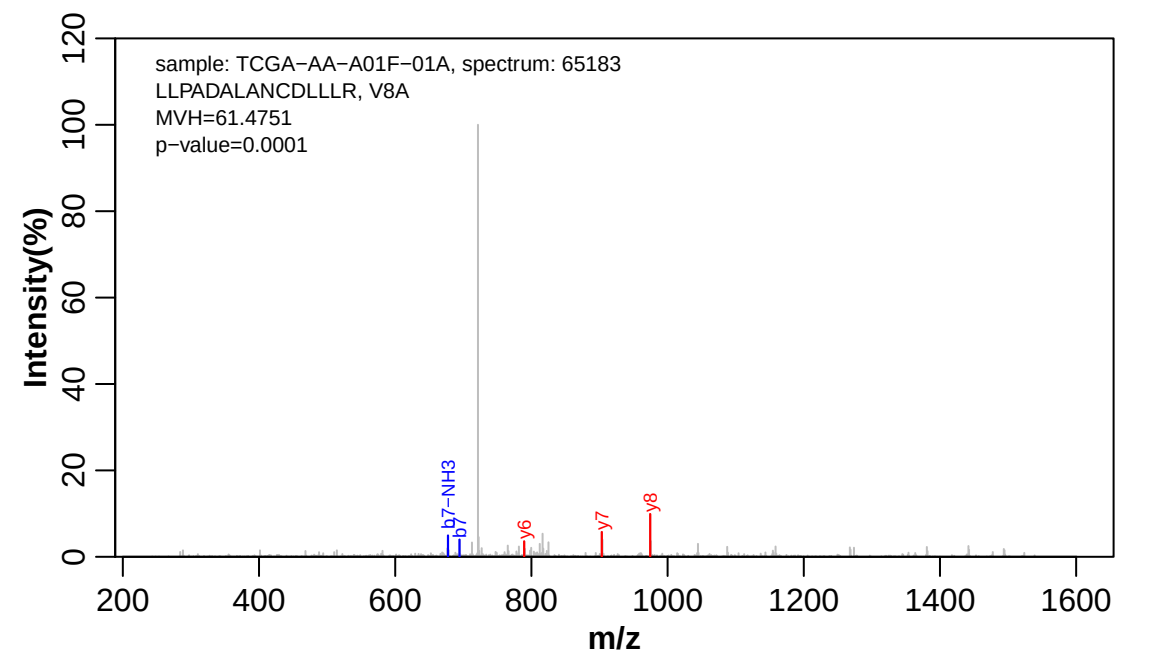

sample: TCGA−AA−A01F−01A, spectrum: 14817
LFEEDPAVGALVLTGGDK, T1I
MVH=81.2769
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y6
y7
b10
y14
b7
y8−NH3
b11
b12
y5
y15
y16
y9
b9
y12
b13
b4
b6
b3
y4
b17

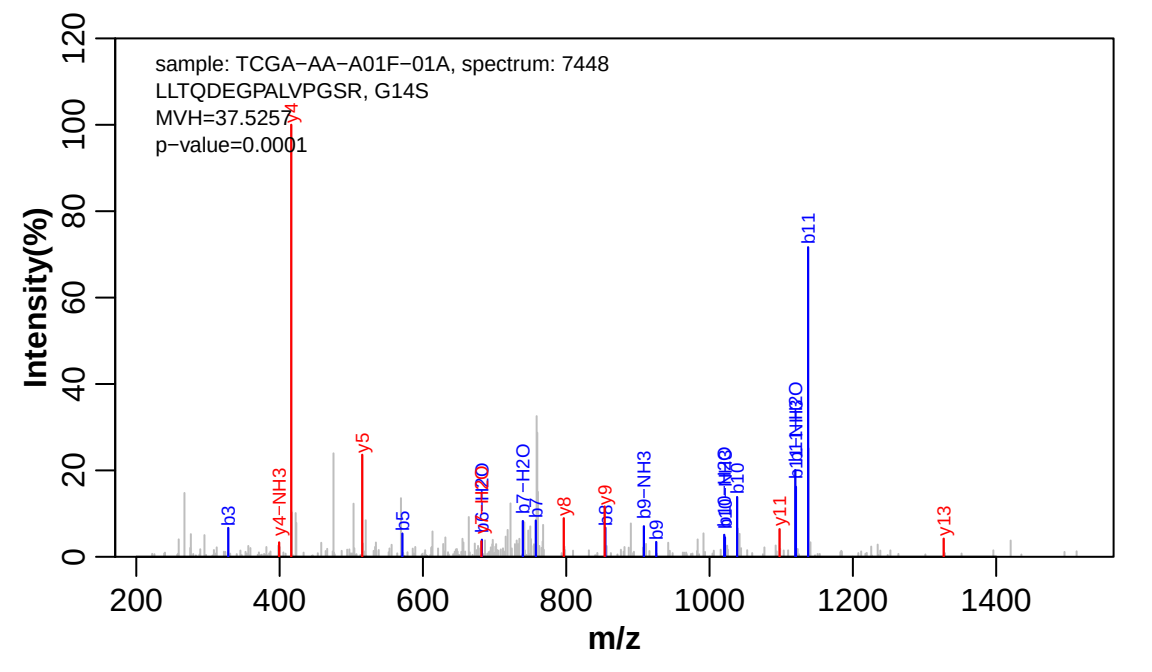

sample: TCGA−AA−A01F−01A, spectrum: 25972
LFSQGLGGEQAK, Q12K
MVH=54.9006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y10
y8
b2
b4−H2O
b5−NH3
b5
y5
b6
b7−H2O
b7
b8
y9−NH3
y9
y10−NH3
b10
b11

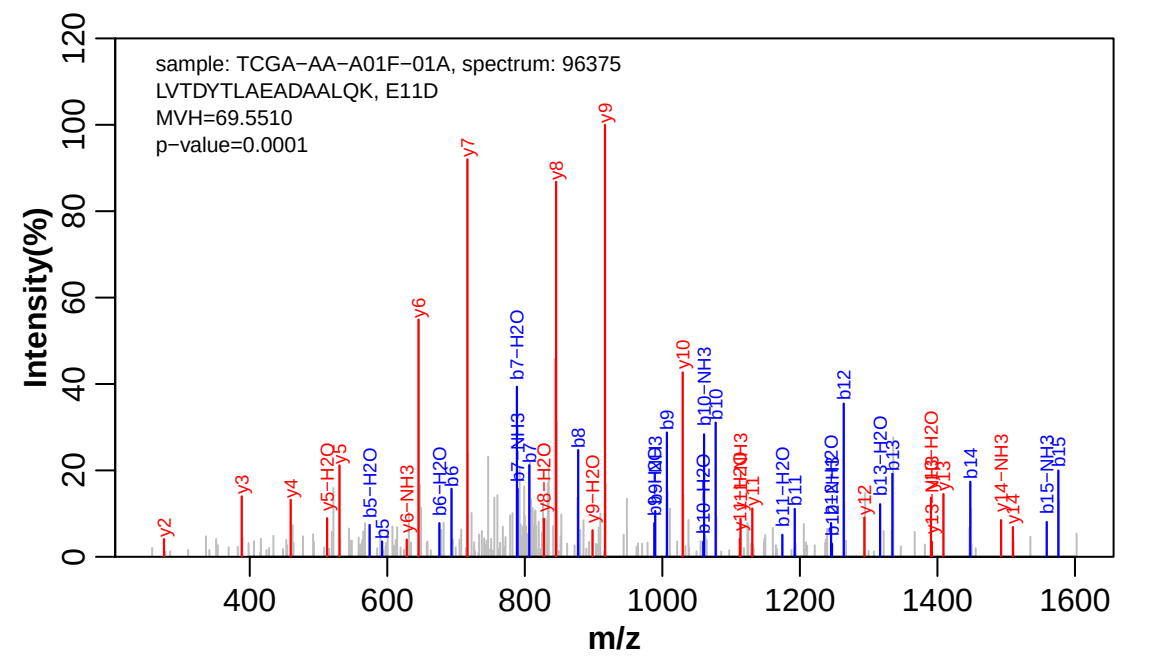

sample: TCGA−AA−A01F−01A, spectrum: 66573
LGGLQPSQDR, G7S
MVH=26.6014
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b4
b5−NH3
b5
y4
y5
y6

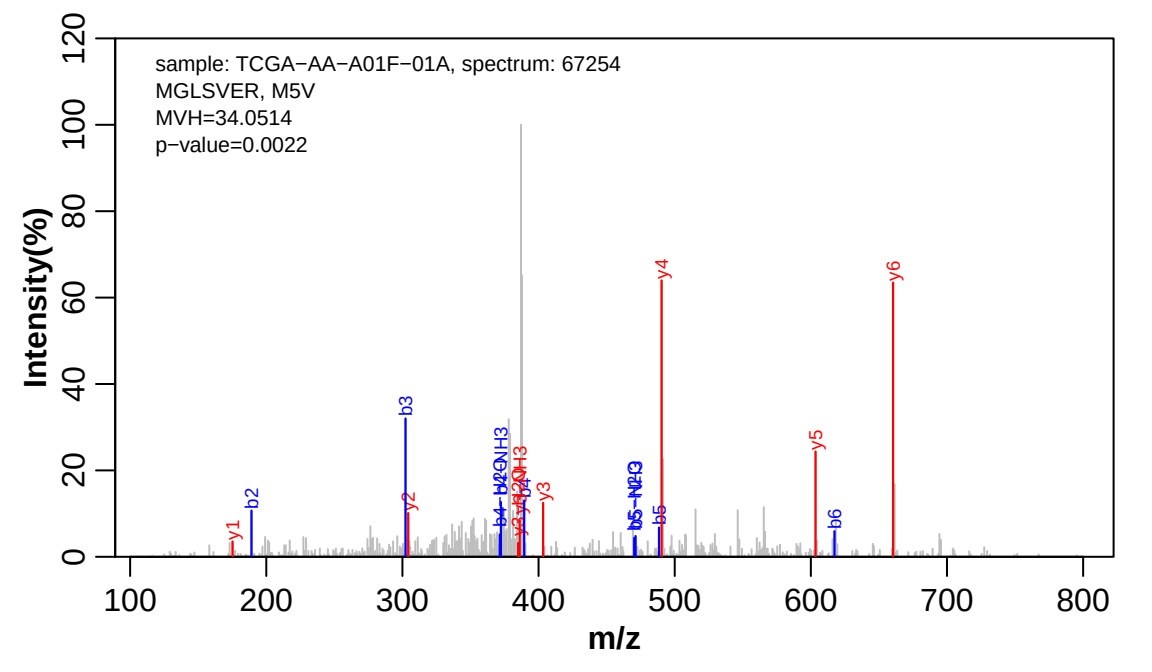

sample: TCGA−AA−A01F−01A, spectrum: 42135
LLHGQSSLK, H5Q
MVH=28.1275
p−value=0.0014
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
b3++−NH3
b4++
b2
y2−NH3
y5++
y6++−H2O
b6++−H2O
b6++
y7++
y7++−H2O
b7++
y8++
y8++−NH3

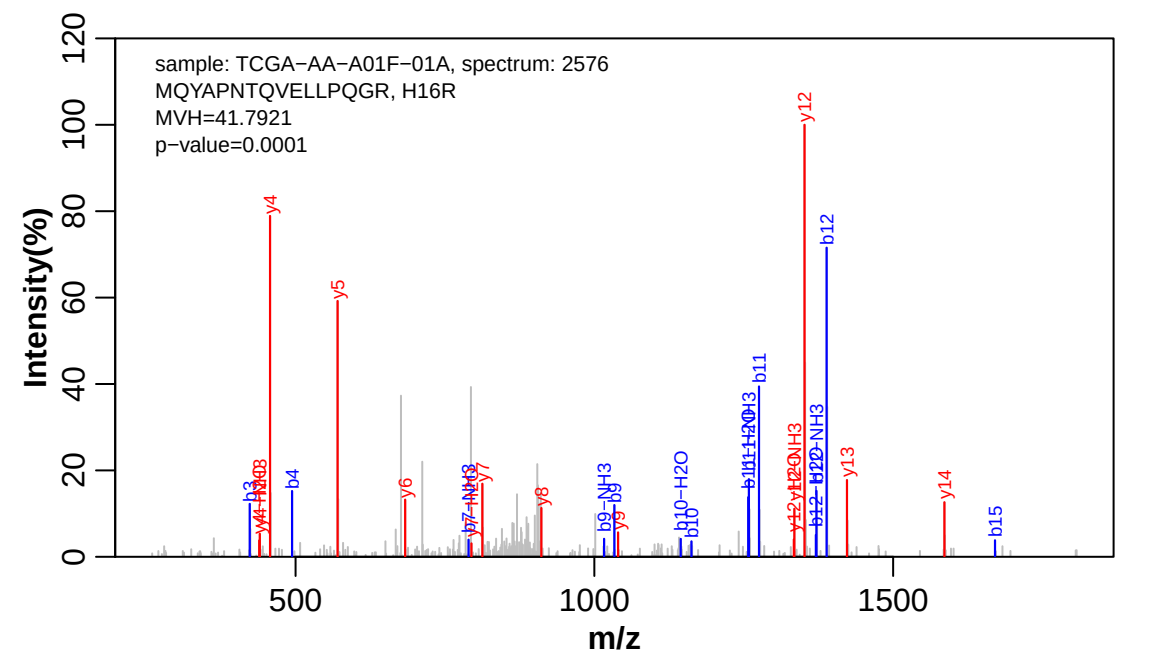

sample: TCGA−AA−A01F−01A, spectrum: 10419
LLNLLADLVER, R4L
MVH=59.9333
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b8−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

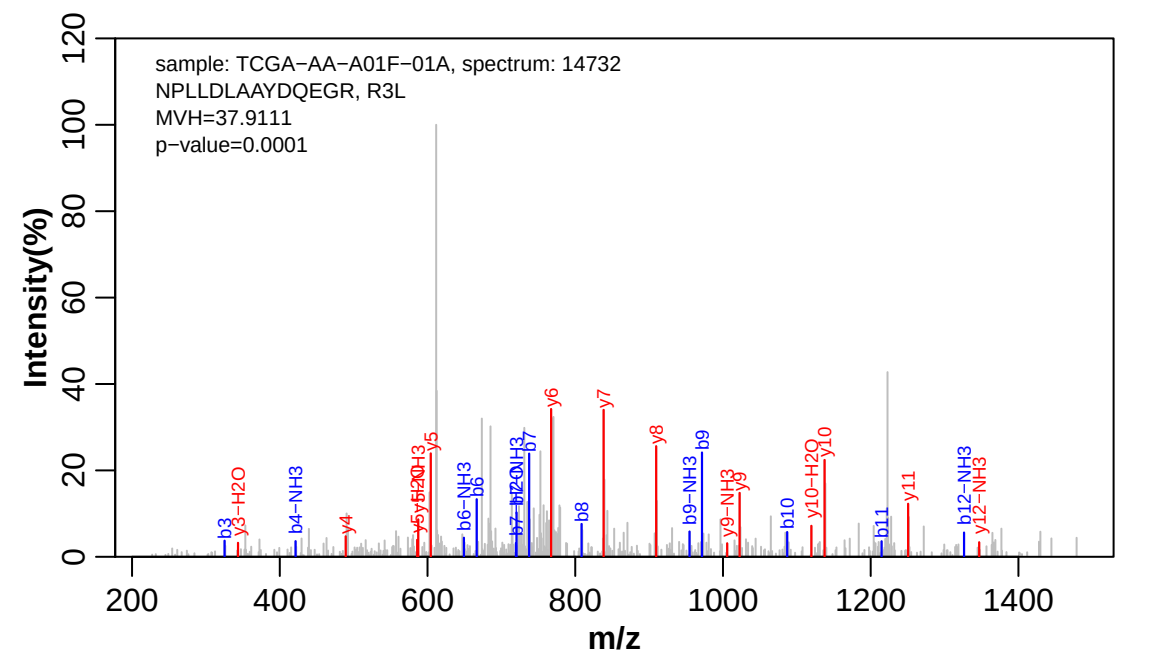

sample: TCGA−AA−A01F−01A, spectrum: 65183
LLPADALANCDLLLR, V8A
MVH=61.4751
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
b7−NH3
b7
y6
y7
y8

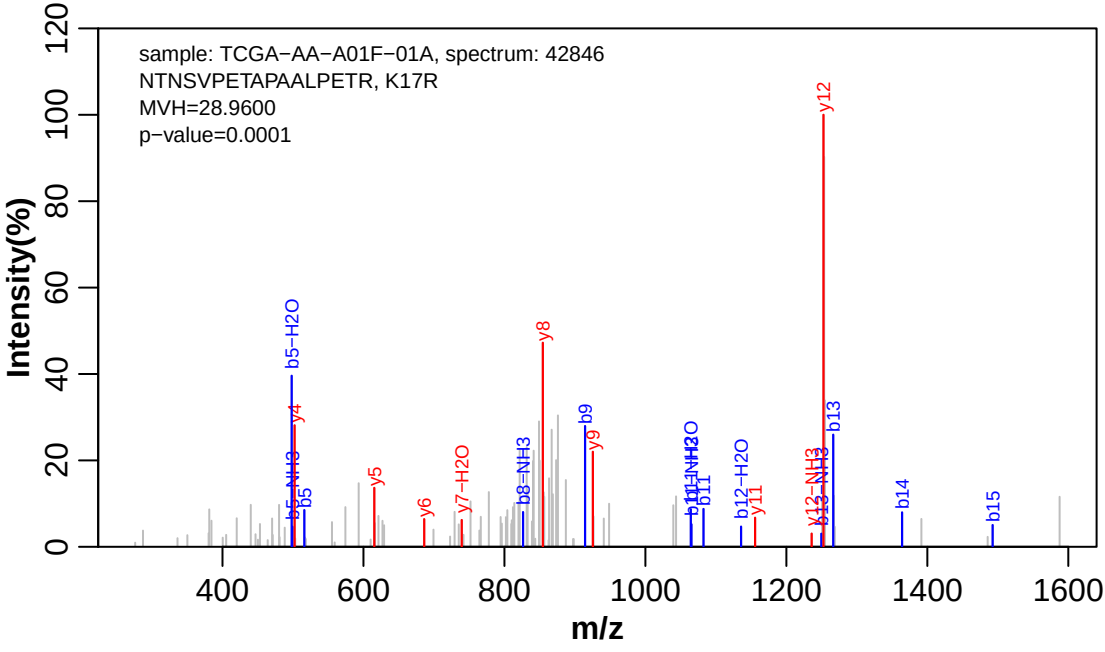

sample: TCGA−AA−A01F−01A, spectrum: 7448
LLTQDEGPALVPGSR, G14S
MVH=37.5257
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
b3
y4−NH3
b5
y6−H2O
b6−H2O
b7−H2O
b7
y8
b8y9
b9−NH3
b9
b10
y11
b11
b11−NH3
b11−H2O
y13

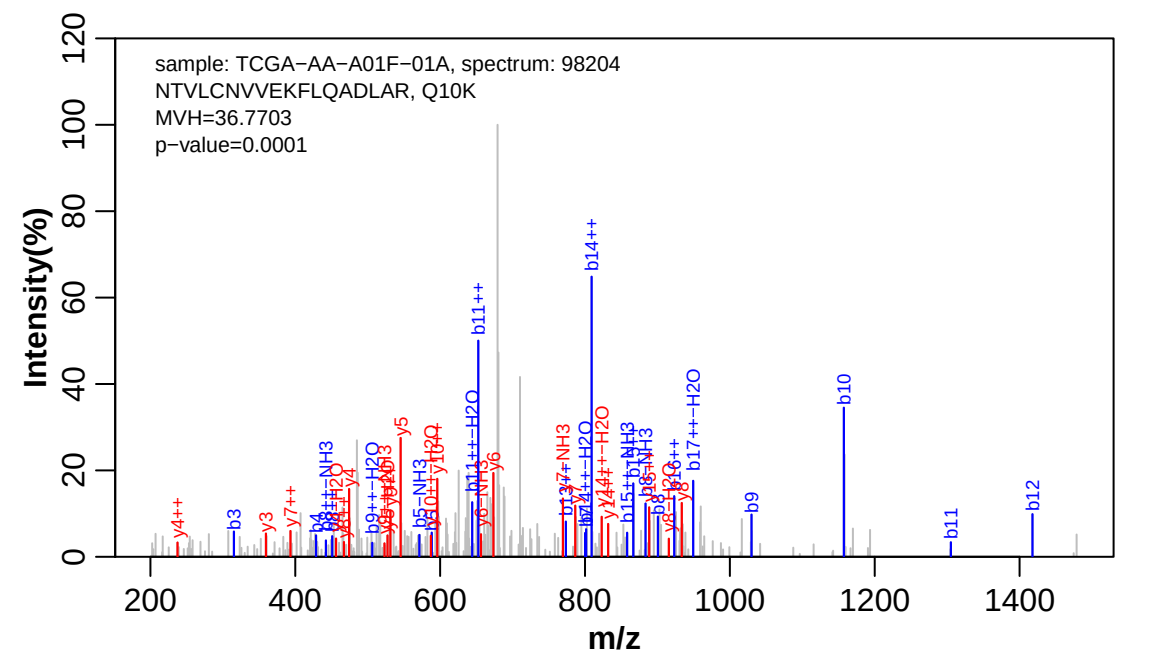

sample: TCGA−AA−A01F−01A, spectrum: 96375
LVTDYTLAEADAALQK, E11D
MVH=69.5510
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5−H2O
y5
b5−H2O
b5
y6−NH3
y6
b6−H2O
b6
y7
b7−H2O
b7−NH3
b7
y8−H2O
y8
b8
y9−H2O
y9
b9
b10−H2O
y10
b10−NH3
b10
y11−H2O−NH3
y11
b11−H2O
b11
b12
b13−H2O
b13
y12
y13−NH3−H2O
y13
b14
y14−NH3
y14
b15−NH3
b15

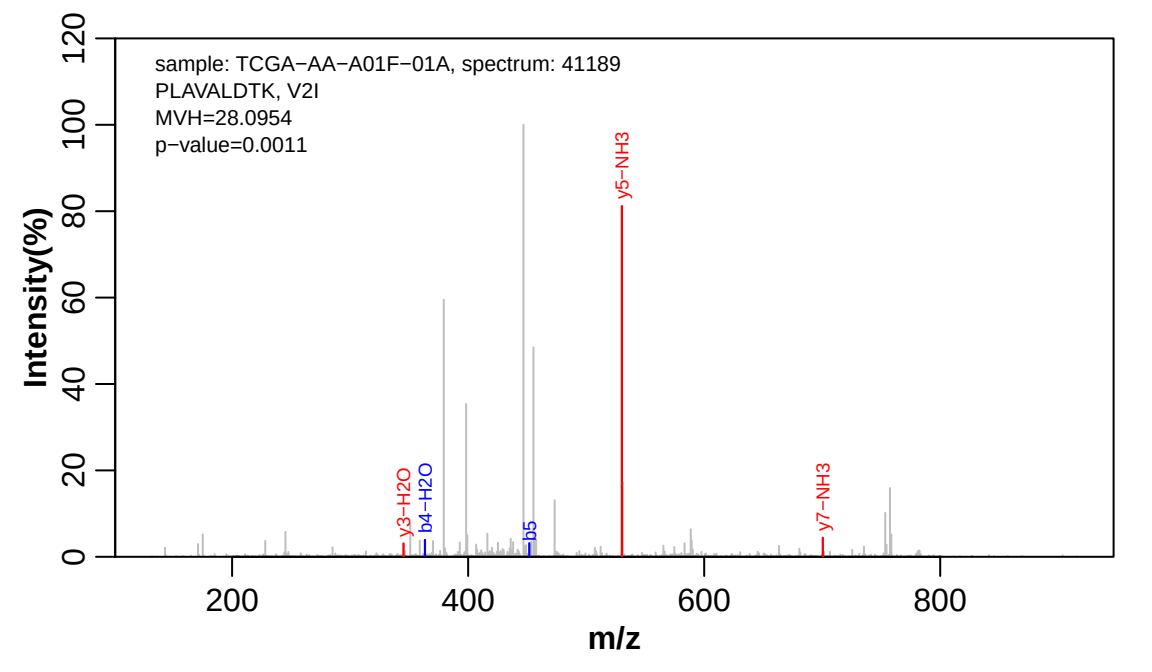

sample: TCGA−AA−A01F−01A, spectrum: 67254
MGLSVER, M5V
MVH=34.0514
p−value=0.0022
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
y1
b2
b3
y2
y3
y4
y5
y6
b5
b6

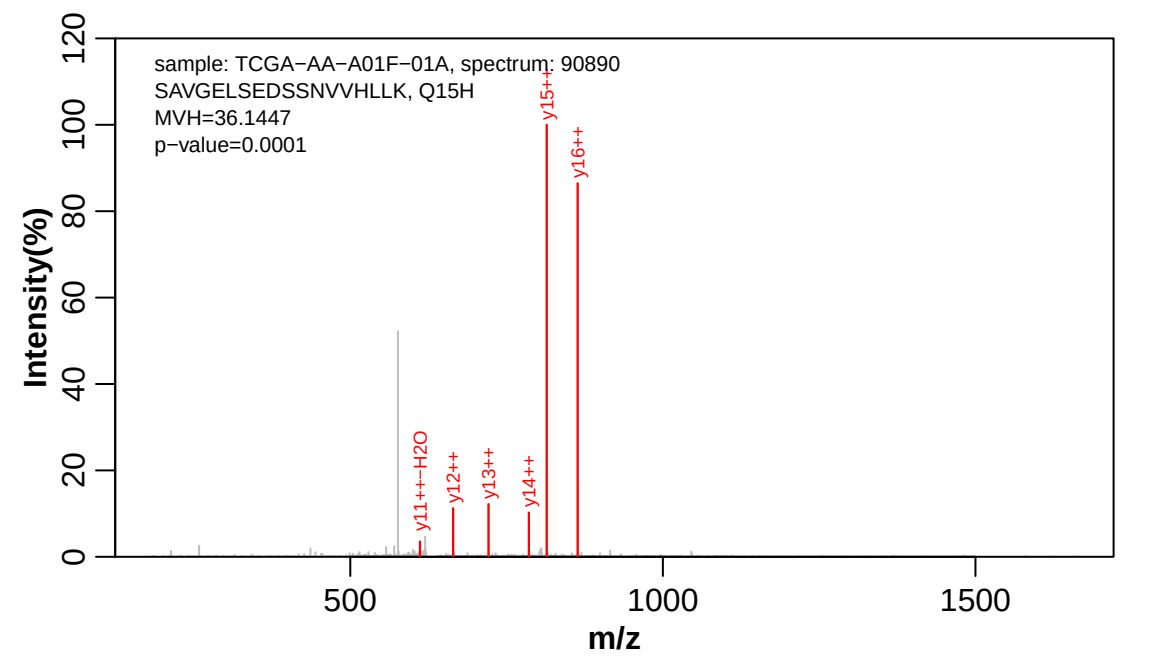

sample: TCGA−AA−A01F−01A, spectrum: 2576
MQYAPNTQVELLPQGR, H16R
MVH=41.7921
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y9
y12
y13
y14
b3
b4
b9−NH3
b10−H2O
b11
b12
b15

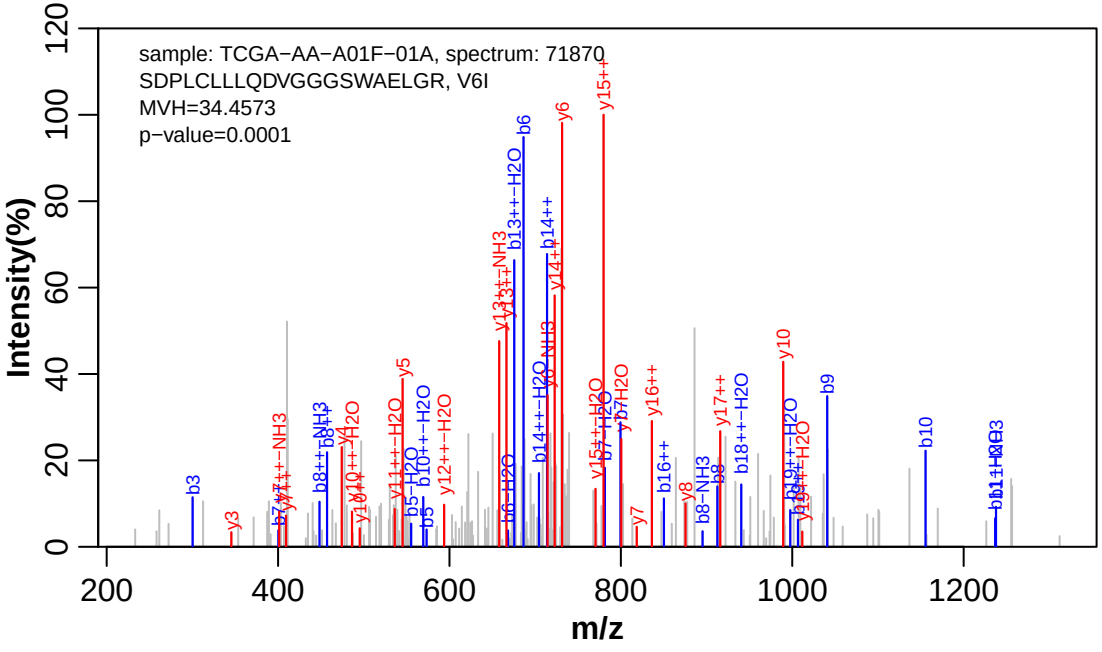

sample: TCGA−AA−A01F−01A, spectrum: 14732
NPLLDLAAYDQEGR, R3L
MVH=37.9111
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3−H2O
b4−NH3
y4
y5−H2O
y5−NH3
y5
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6
b8
y7
y8
b9−NH3
b9
y9−NH3
y9
b10
y10−H2O
y10
b11
y11
b12−NH3
y12−NH3

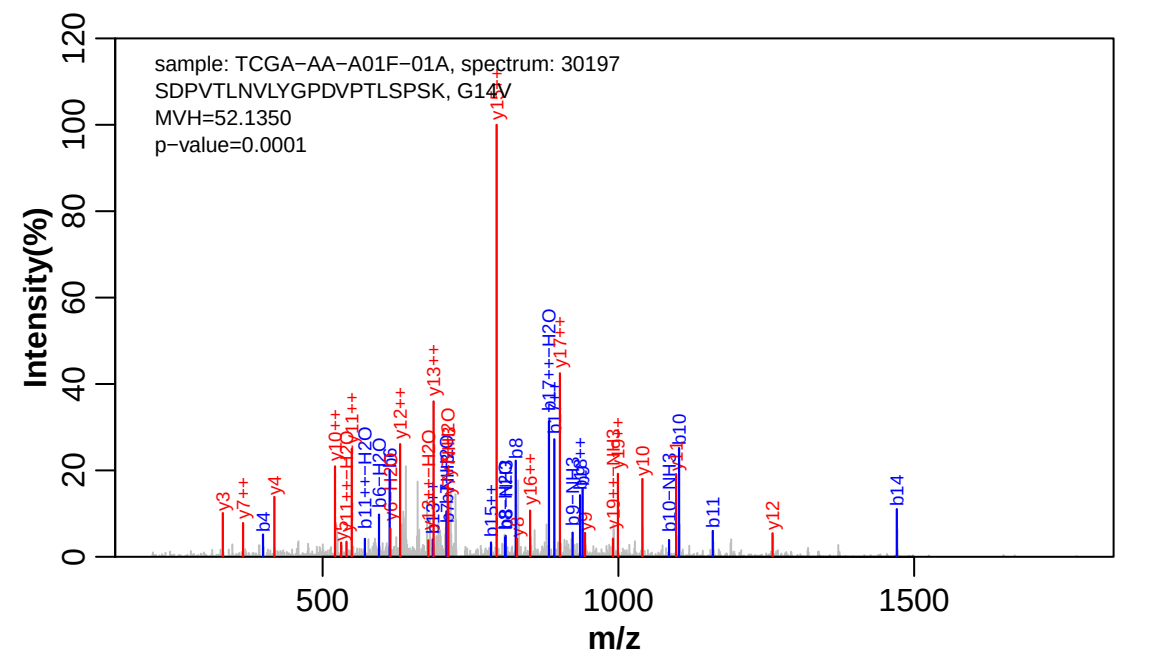

sample: TCGA−AA−A01F−01A, spectrum: 42846
NTNSVPETAPAALPETR, K17R
MVH=28.9600
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y12
y8
b5−H2O
y4
b5−NH3
b5
y5
y6
y7−H2O
b8−NH3
b9
y9
b11−H2O
b11−NH3
b11
b12−H2O
y11
y12−NH3
y13−NH3
b13
b14
b15

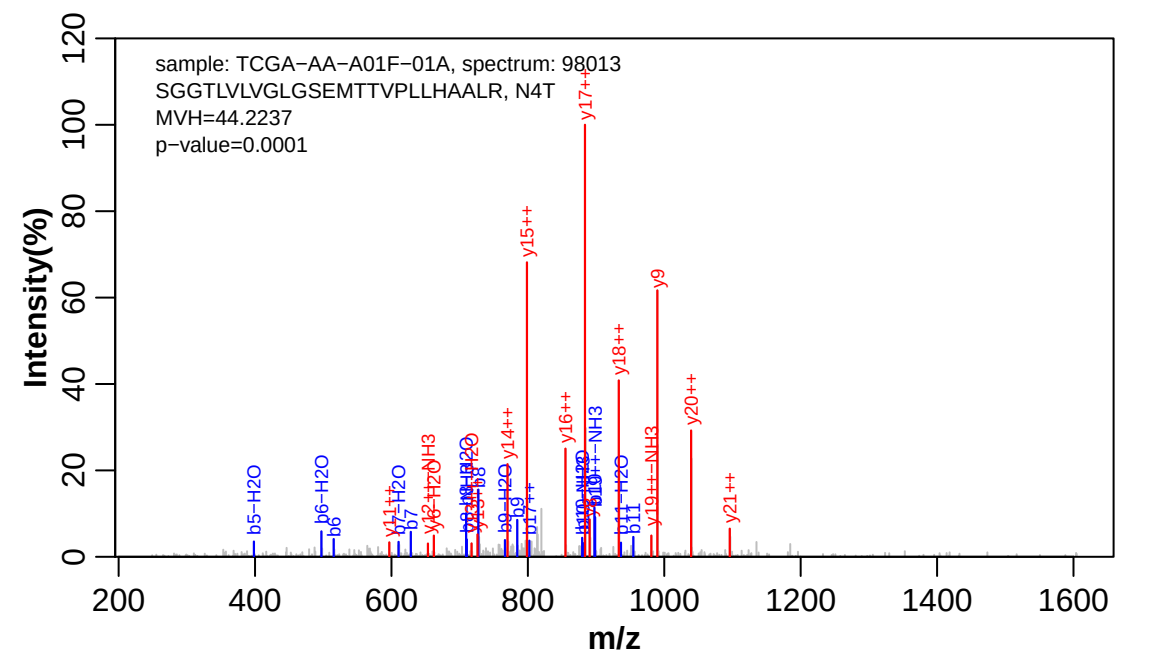

sample: TCGA−AA−A01F−01A, spectrum: 98204
NTVLCNVVEKFLQADLAR, Q10K
MVH=36.7703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b14++
b11++
b10
b12
b11
b9
b17++−H2O
y4++
b3
y3
y7++
y6
y5
b11++−H2O
b14++−H2O
b15++−NH3
b17++
y2
b16++
y6−NH3
b5−NH3
b9++−H2O
b7++−NH3
b7++−H2O
y14++−H2O

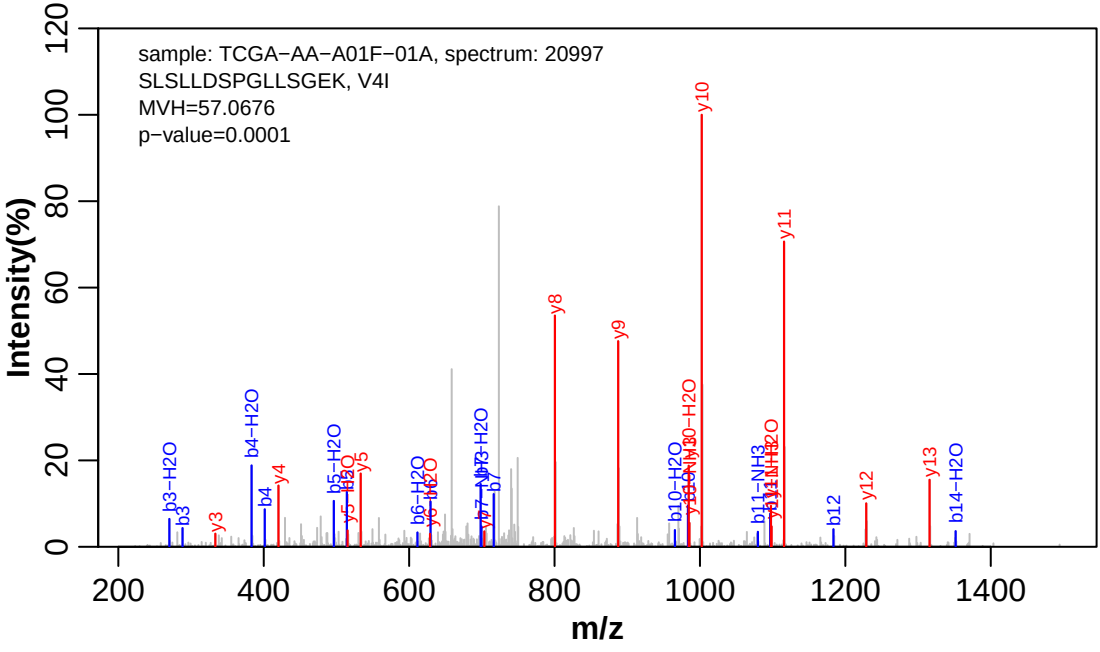

sample: TCGA−AA−A01F−01A, spectrum: 41189
PLAVALDTK, V2I
MVH=28.0954
p−value=0.0011
y5−NH3
y3−H2O
b4−H2O
b5
y7−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z

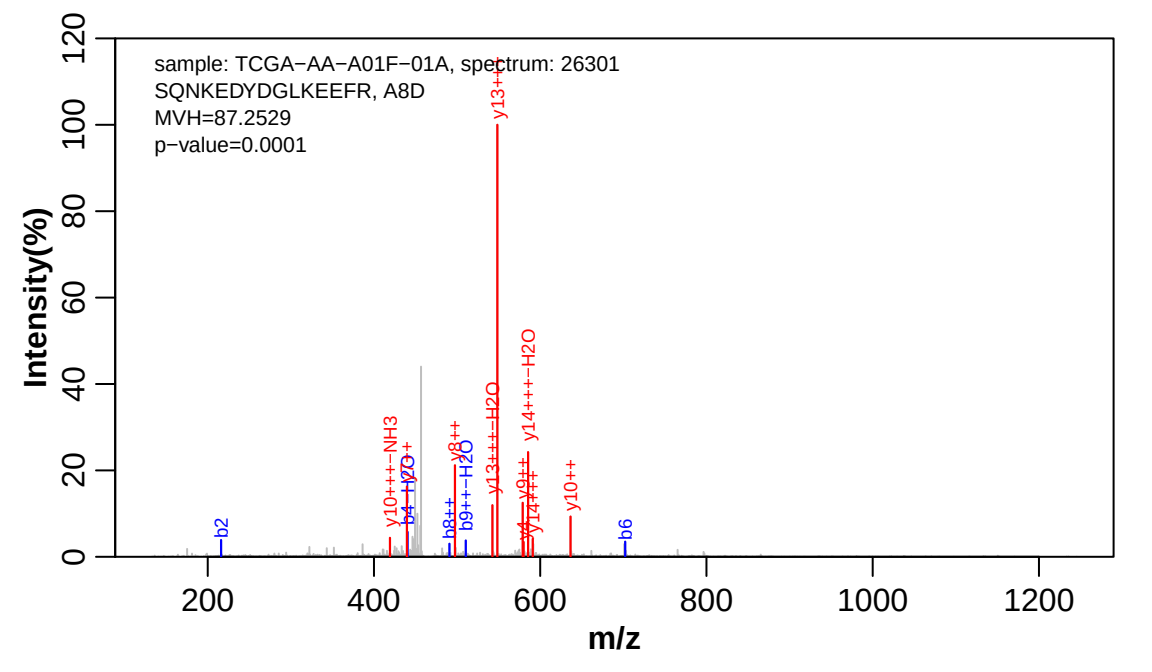

sample: TCGA−AA−A01F−01A, spectrum: 90890
SAVGELSEDSSNVVHLLK, Q15H
MVH=36.1447
p−value=0.0001
y15++
y16++
y11++−H2O
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

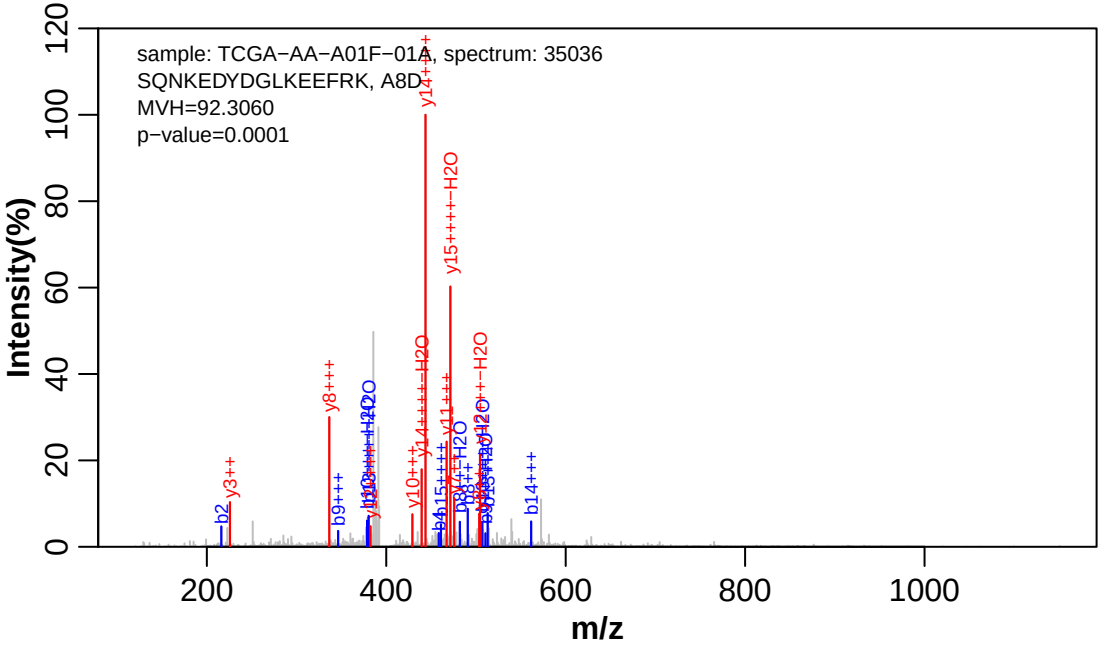

sample: TCGA−AA−A01F−01A, spectrum: 71870
SDPLCLLLQDVGGGSWAELGR, V6I
MVH=34.4573
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y3
b7++−NH3
y7++−NH3
b8++−NH3
y4
y10++−H2O
y11++−H2O
y5
b5−H2O
b10++−H2O
b5
y12++−H2O
b6−H2O
y13++−NH3
y13++
b13++−H2O
b6
b14++−H2O
y8−NH3
b14++
y14++
y6
y15++
y15++−H2O
y7−H2O
y7
y16++
b16++
y8
b8−NH3
b8
y17++
b18++−H2O
y10
b19++−H2O
y19++−H2O
b9
b10
b11++−H2O
b11++−NH3

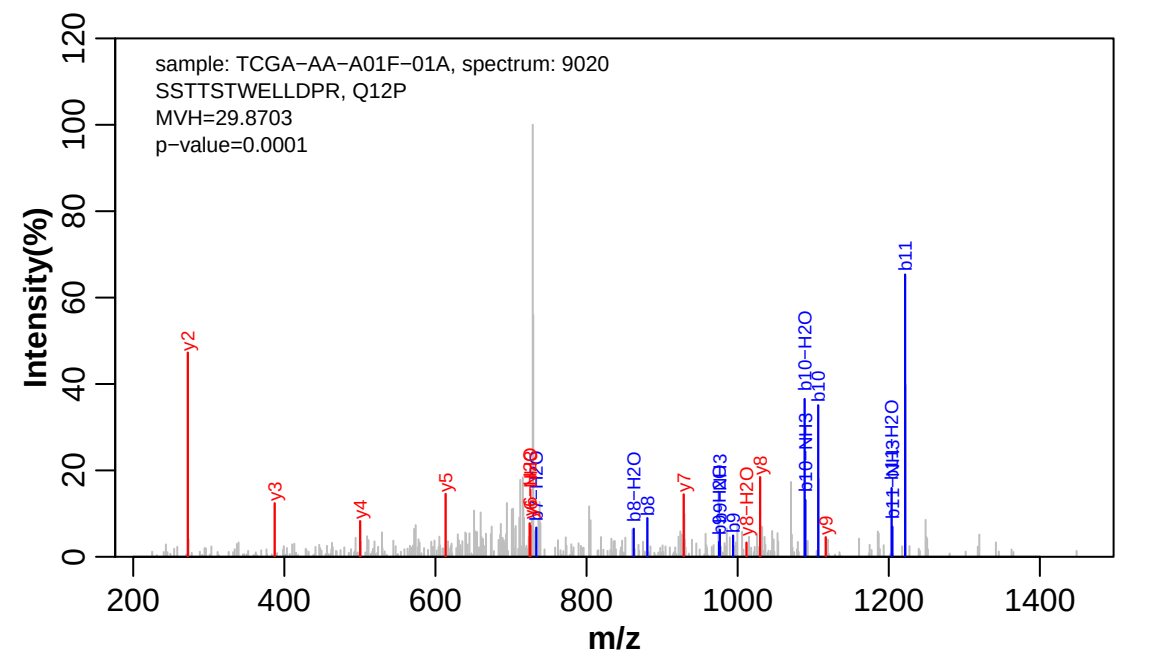

sample: TCGA−AA−A01F−01A, spectrum: 30197
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=52.1350
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y3
y7++
b4
y4
y10++
y11++−H2O
y11++
b11++−H2O
b6−H2O
y8−H2O
y12++
y13++
b12++−H2O
b15++
b8−NH3
y6
b8
y16++
b17++−H2O
y17++
b9−NH3
y9
y19++−NH3
y10
b10−NH3
b10
b11
y12
b14

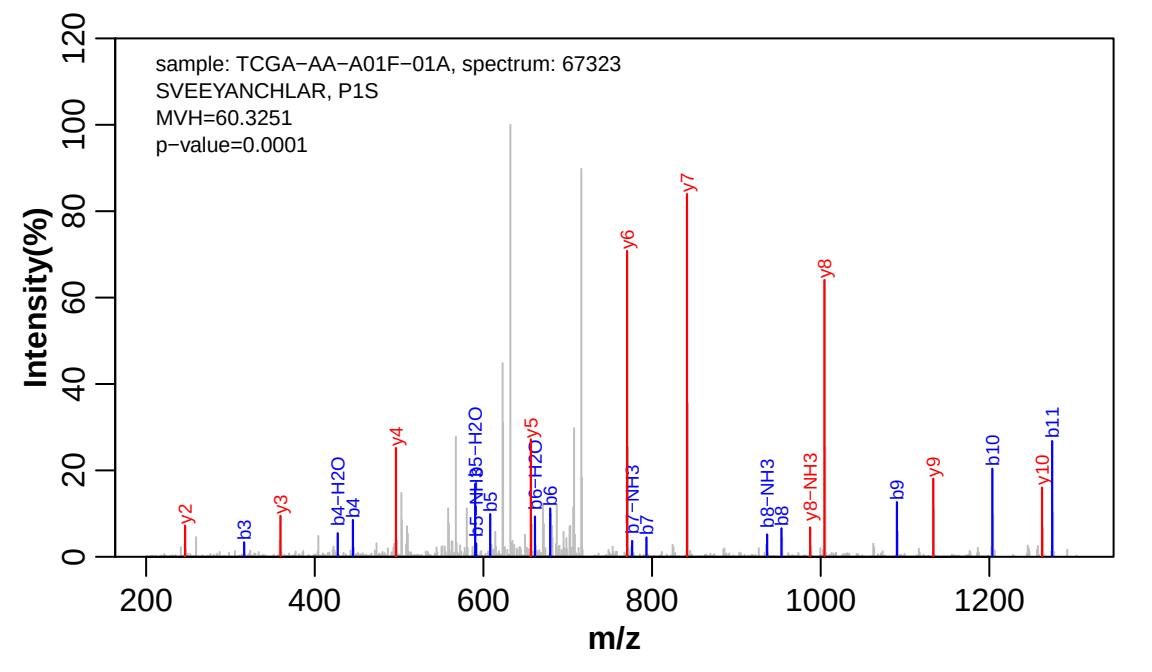

sample: TCGA−AA−A01F−01A, spectrum: 98013
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=44.2237
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5−H2O
b6−H2O
b6
y11++
y7−H2O
b7
y8−H2O
y8−NH3
y14++
b9−H2O
b9
b17++
y15++
y16++
y17++
y18++
y9
y20++
y19++−NH3
b11−H2O
b11
y21++

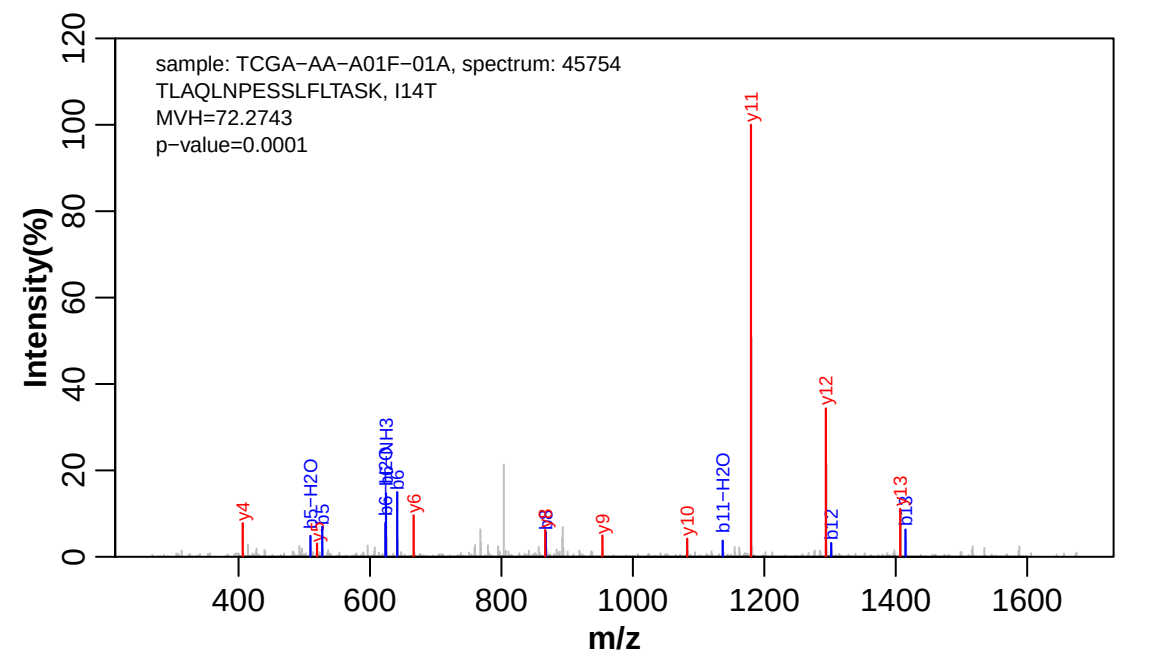

sample: TCGA−AA−A01F−01A, spectrum: 20997
SLSLLDSPGLLSGEK, V4I
MVH=57.0676
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y8
y9
b4−H2O
b3−H2O
b4
y4
y3
b3
b5−H2O
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b10−H2O
y10−H2O
b11−NH3
b12
y12
y13
b14−H2O

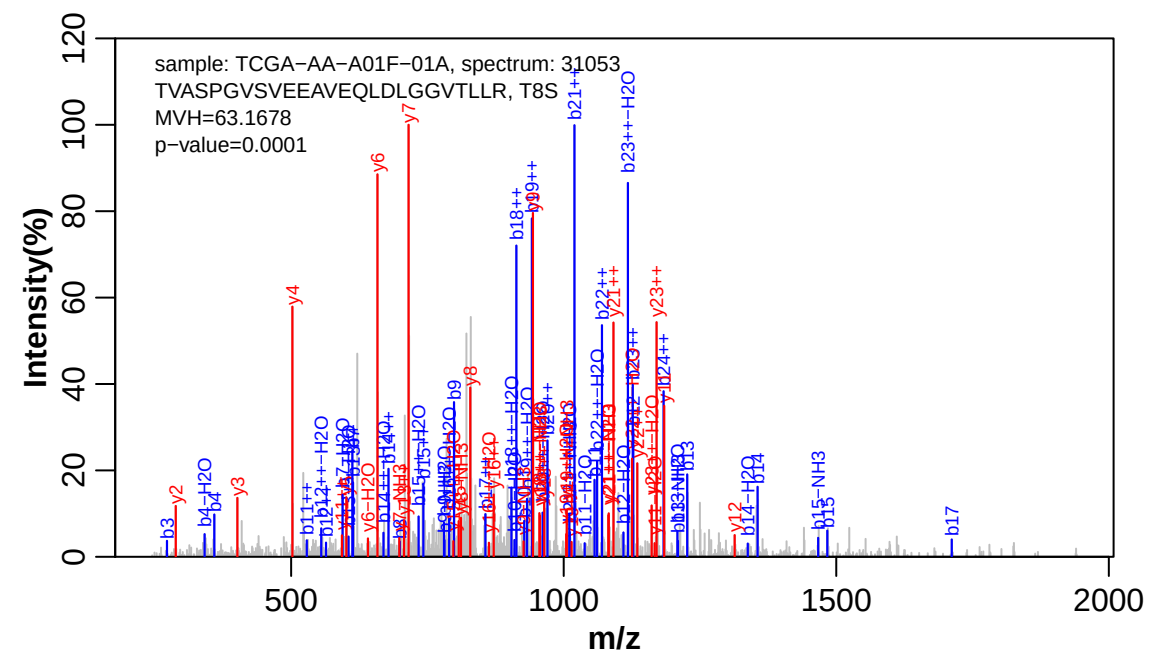

sample: TCGA−AA−A01F−01A, spectrum: 26301
SQNKEDYDGLKEEFR, A8D
MVH=87.2529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y10+++−NH3
b4 + H2O
y8++
b8++
b9++−H2O
y13+++−H2O
y13++
y14+++−H2O
y14+++
y9++
y10++
b6

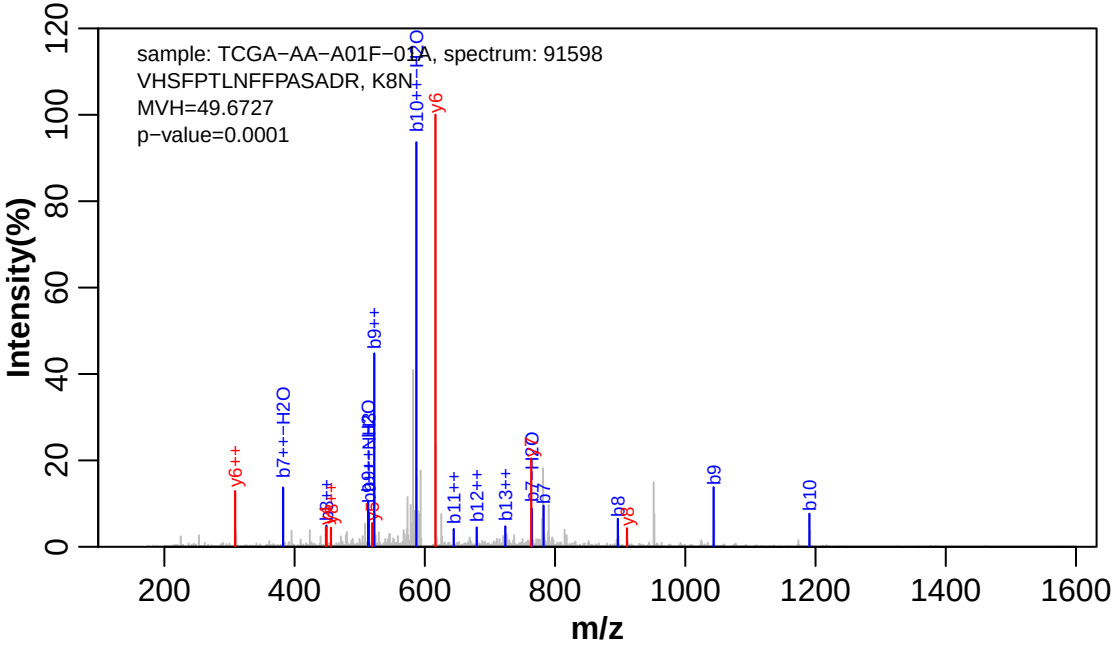

sample: TCGA−AA−A01F−01A, spectrum: 35036
SQNKEDYDGLKEEFRK, A8D
MVH=92.3060
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y14++
y15++++−H2O
y8+++
y3++
b2
b9+++
y10++
b14+++

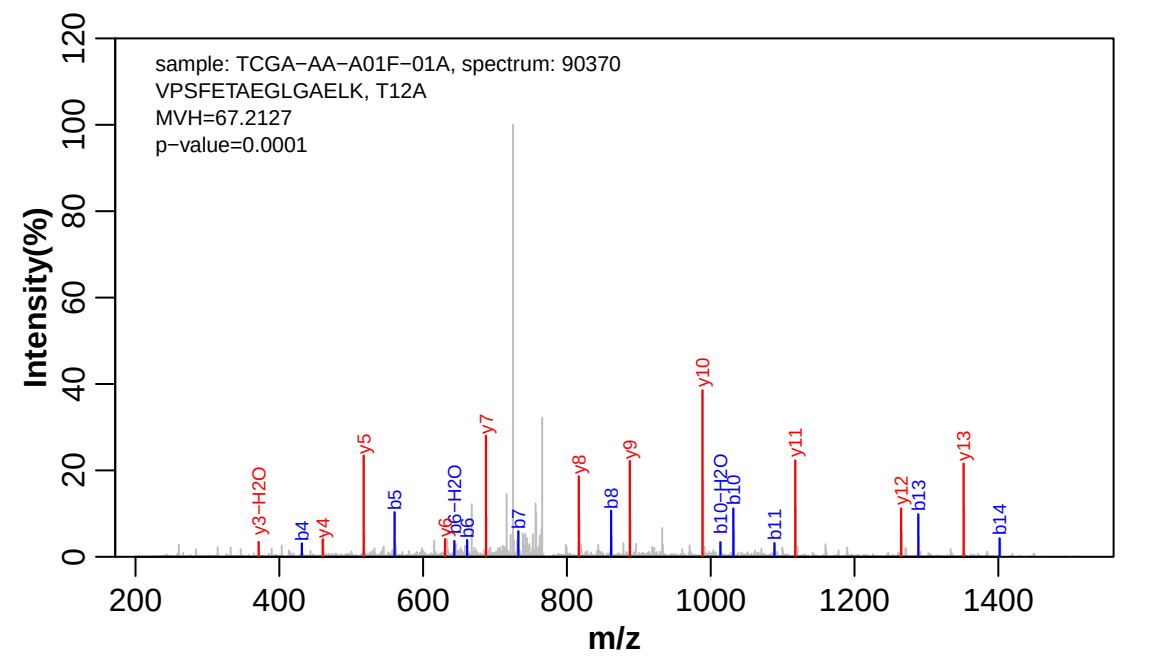

sample: TCGA−AA−A01F−01A, spectrum: 9020
SSTTSTWELLDPR, Q12P
MVH=29.8703
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
b8−H2O
b8
y7
y8−H2O
y8
b10−H2O
b10
y9
b11

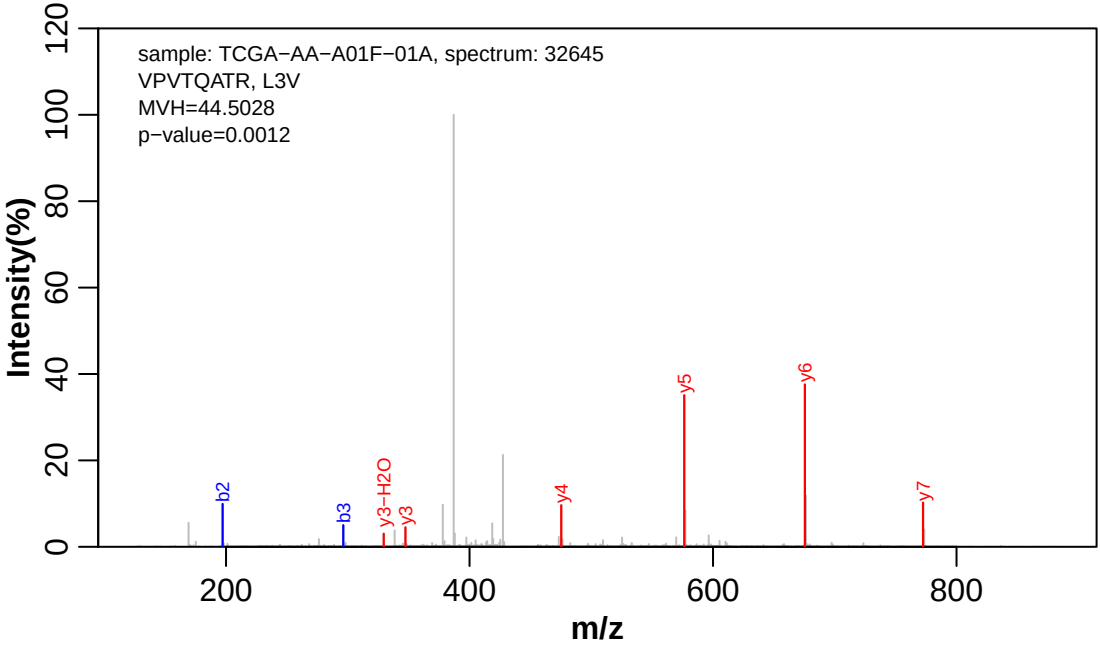

sample: TCGA−AA−A01F−01A, spectrum: 67323
SVEEYANCHLAR, P1S
MVH=60.3251
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6
b7−NH3
y6
b7
y7
b8−NH3
b8
y8−NH3
y8
b9
y9
b10
y10
b11

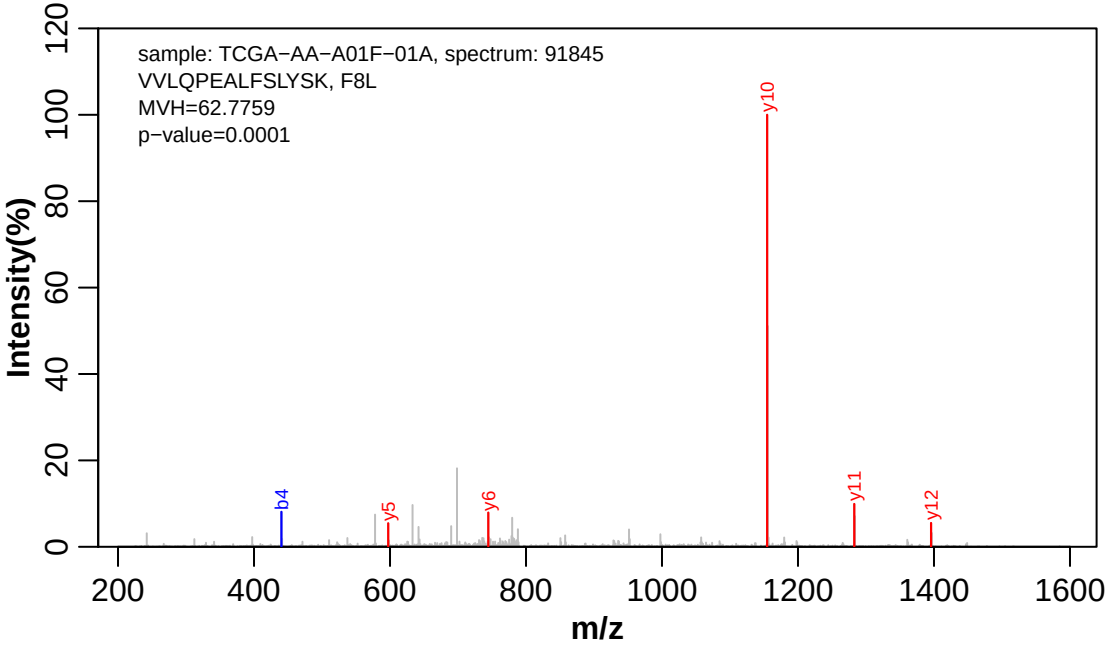

sample: TCGA−AA−A01F−01A, spectrum: 45754
TLAQLNPESSLFLTASK, I14T
MVH=72.2743
p−value=0.0001
Intensity(%)
m/z
y11
y12
y4
y6
y9
y10
b11−H2O
b12
b13
b5−H2O
b5
b6
y8
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600

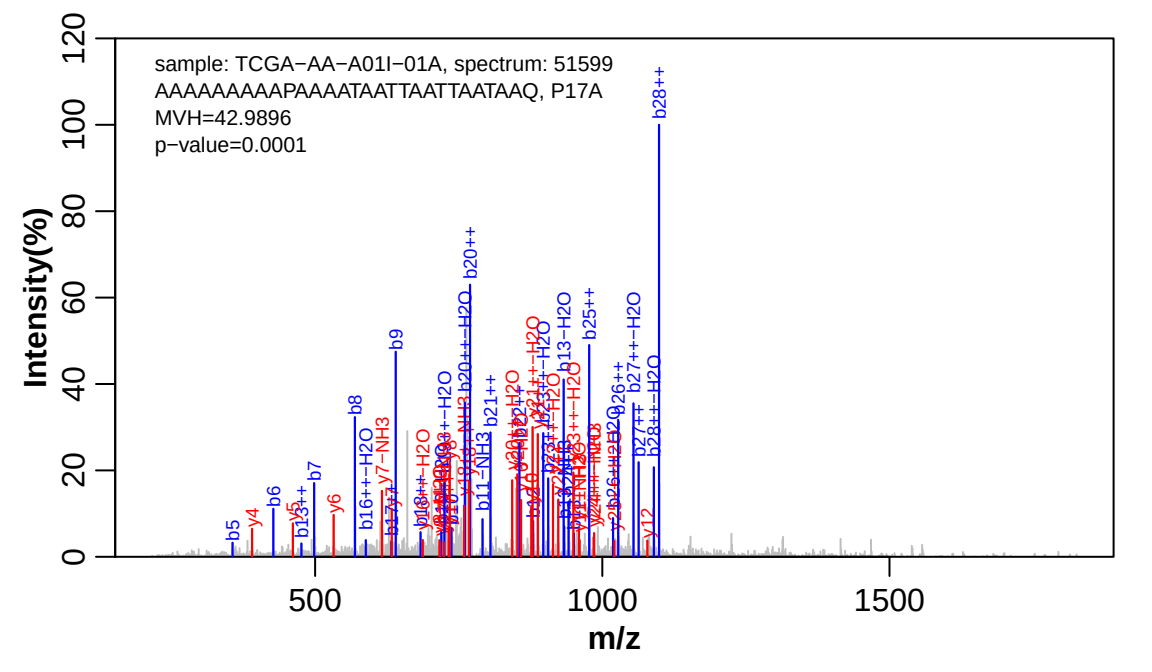

sample: TCGA−AA−A01F−01A, spectrum: 31053
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=63.1678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y2
b4−H2O
b4
y3
y4
b11++
b12++−H2O
y6
y6−H2O
y7
y6++
b15−H2O
b15
b9
y8
b18++
y9++
b21++
b23++−H2O
b22++
y21++
y23++
b11−H2O
b12−H2O
b13
y12
b14−H2O
b14
b15−NH3
b17

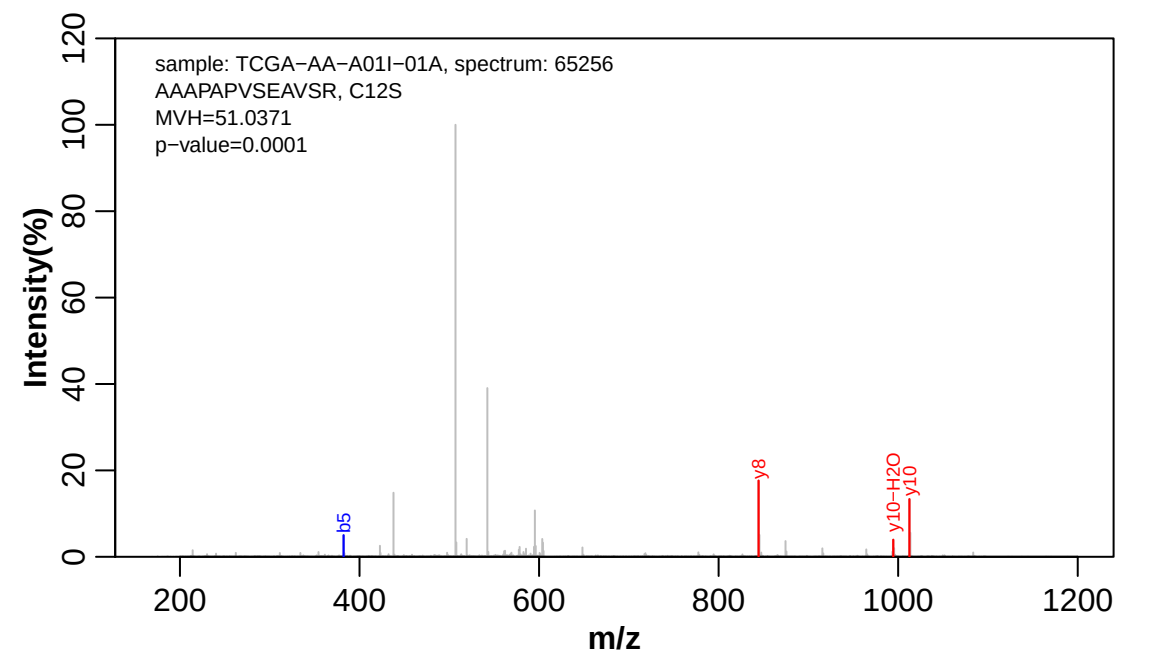

sample: TCGA−AA−A01F−01A, spectrum: 91598
VHSFPTLNFFPASADR, K8N-
MVH=49.6727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++−H2O
y6
b9++
b7++−H2O
y6++
b11++
b12++
b13++
b9
b10
y8
b8

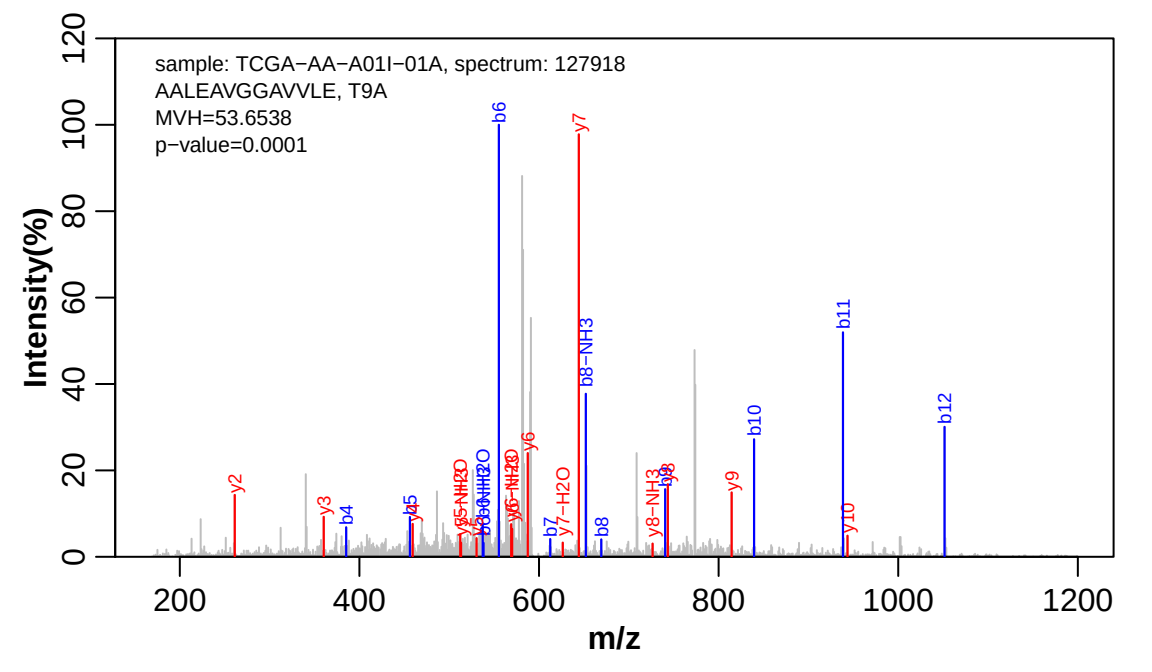

sample: TCGA−AA−A01F−01A, spectrum: 90370
VPSFETAEGLGAELK, T12A
MVH=67.2127
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y3−H2O
b4
y4
y5
b5
y6
b6−H2O
b6
b7
y7
y8
b8
y9
y10
b10−H2O
b10
b11
y11
y12
b13
y13
b14

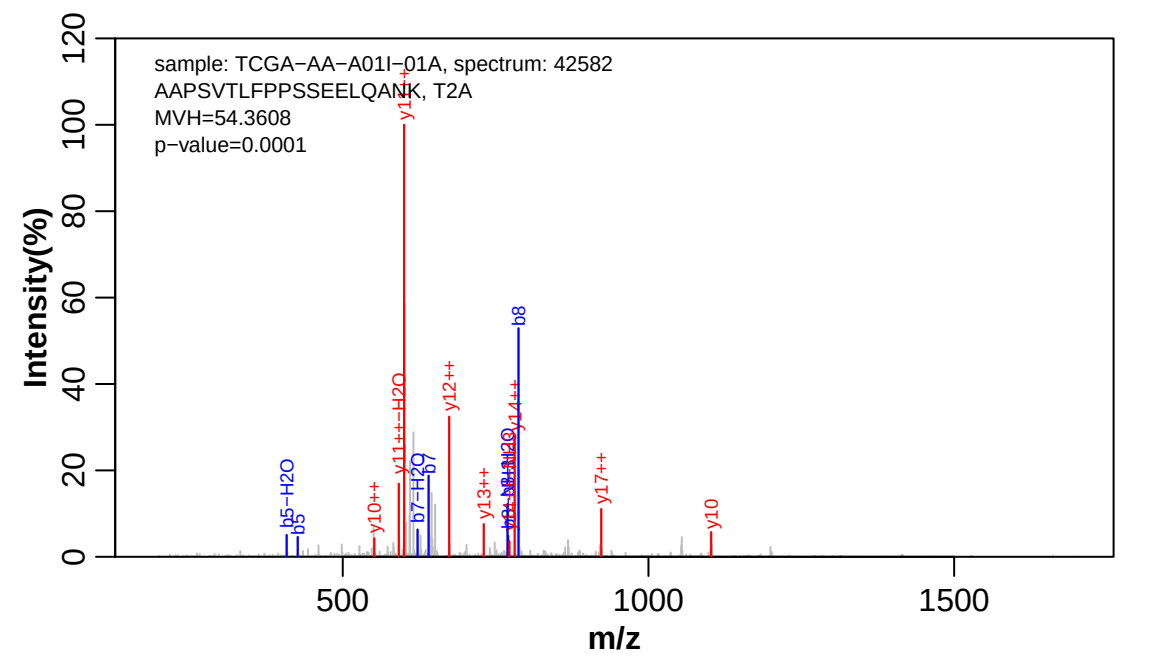

sample: TCGA−AA−A01F−01A, spectrum: 32645
VPVTQATR, L3V
MVH=44.5028
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3−H2O
y3
y4
y5
y6
y7

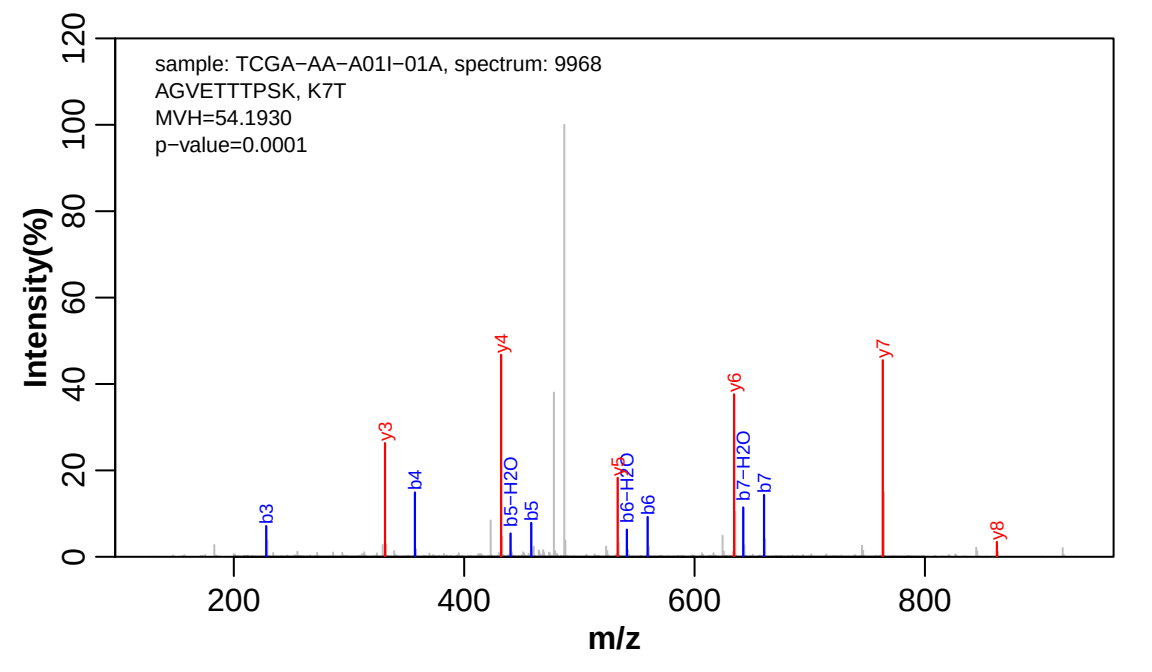

sample: TCGA−AA−A01F−01A, spectrum: 91845
VVLQPEALFSLYSK, F8L
MVH=62.7759
p−value=0.0001
b4
y5
y6
y10
y11
y12
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

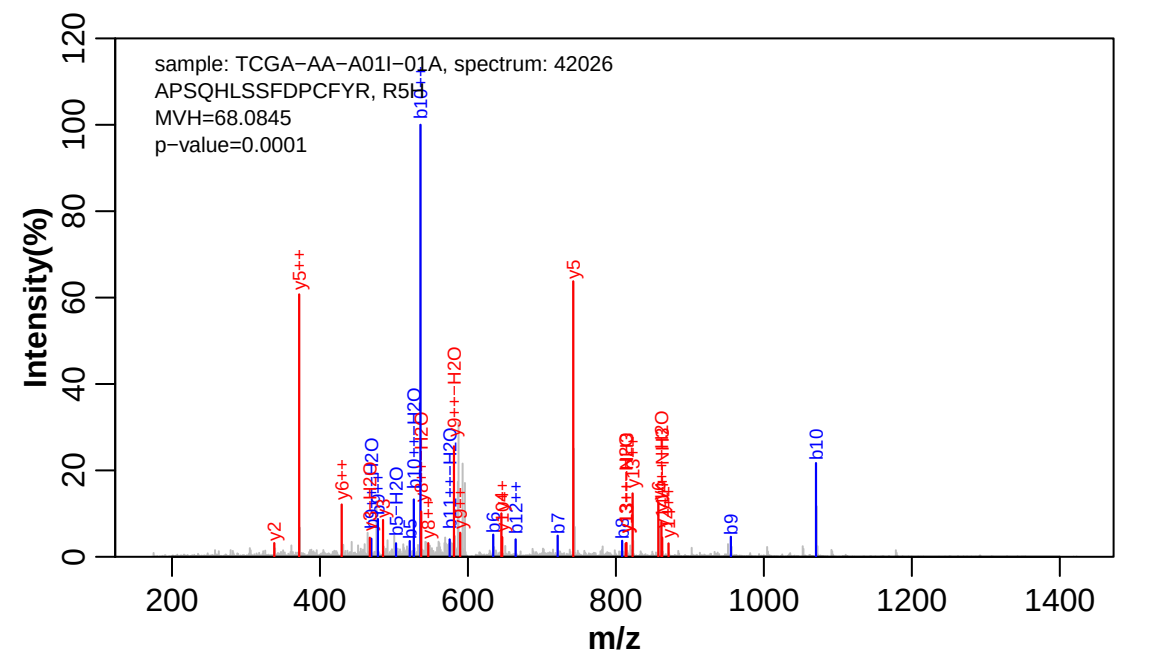

sample: TCGA−AA−A01I−01A, spectrum: 51599
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=42.9896
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++
b9
b8
b25++
b27++−H2O
b28++−H2O
b16++−H2O
y7−NH3
b11−NH3
b21++
b13−H2O
b27++
y12
b6
b7
y6
y4
b5
b13++
y5

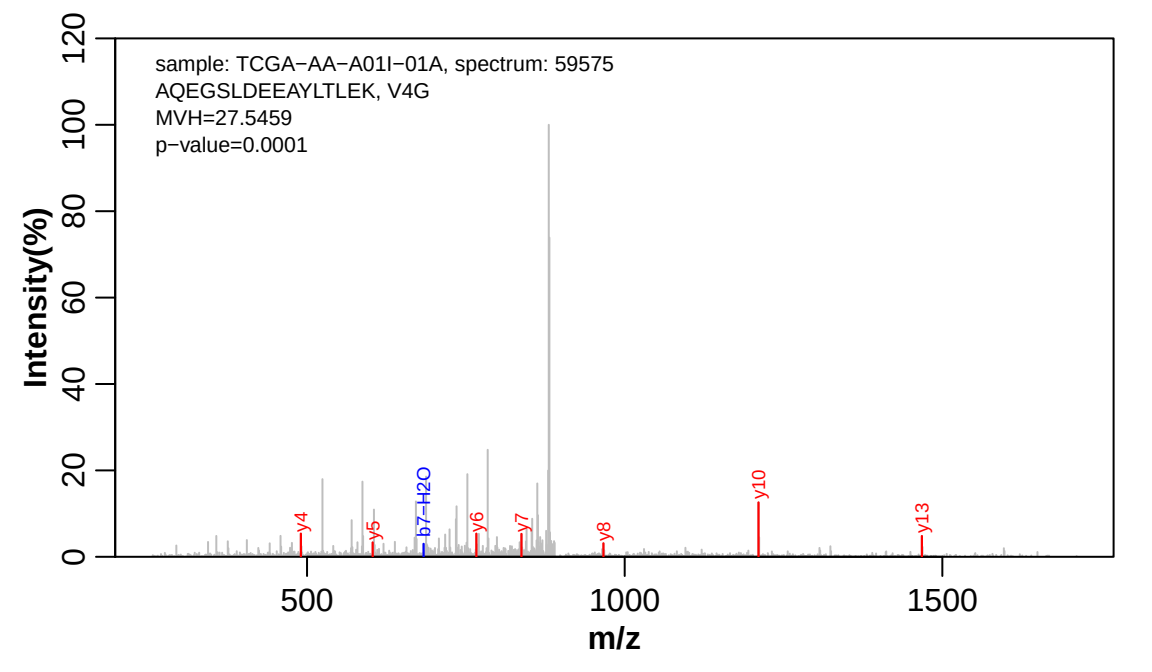

sample: TCGA−AA−A01I−01A, spectrum: 65256
AAAPAPVSEAVSR, C12S
MVH=51.0371
p−value=0.0001
b5
y8
y10−H2O
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

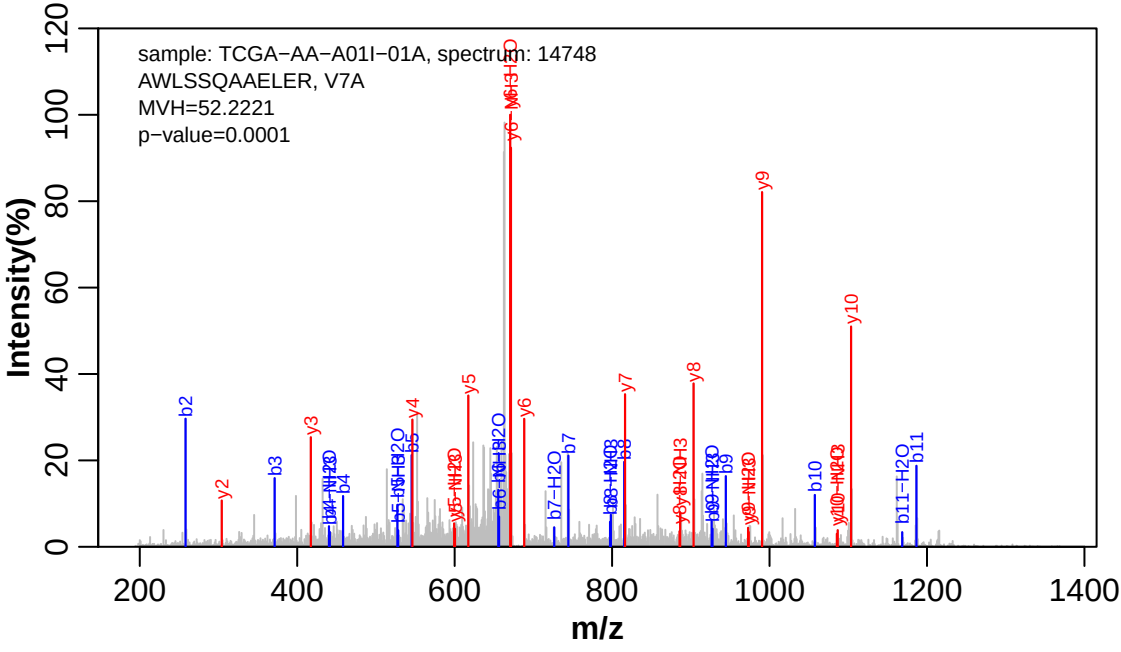

sample: TCGA−AA−A01I−01A, spectrum: 127918
AALEAVGGAVVLE, T9A
MVH=53.6538
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b6
y7
b8−NH3
b11
b10
b12
y2
y3
b4
y5
y6
y7−H2O
b7
b8
y8−NH3
b9
y9
y10

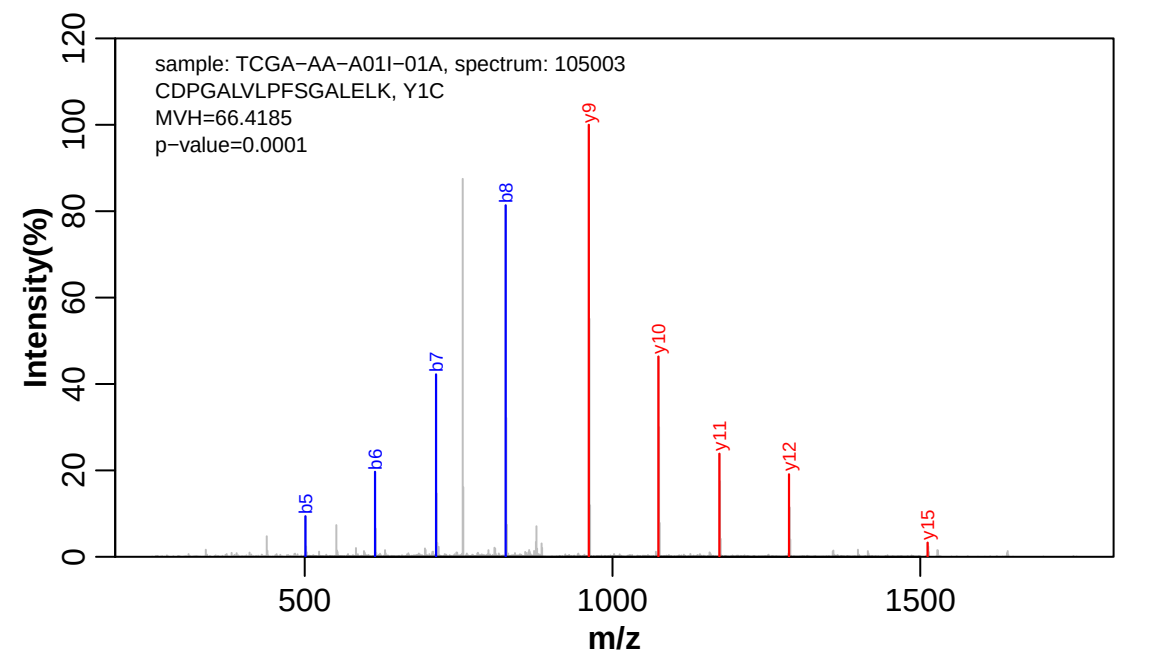

sample: TCGA−AA−A01I−01A, spectrum: 42582
AAPSVTLFPPSSEELQANK, T2A
MVH=54.3608
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11++
y11++−H2O
y12++
b8
y14++
y10++
b5−H2O
b5
b7−H2O
b7
y13++
y17++
y10

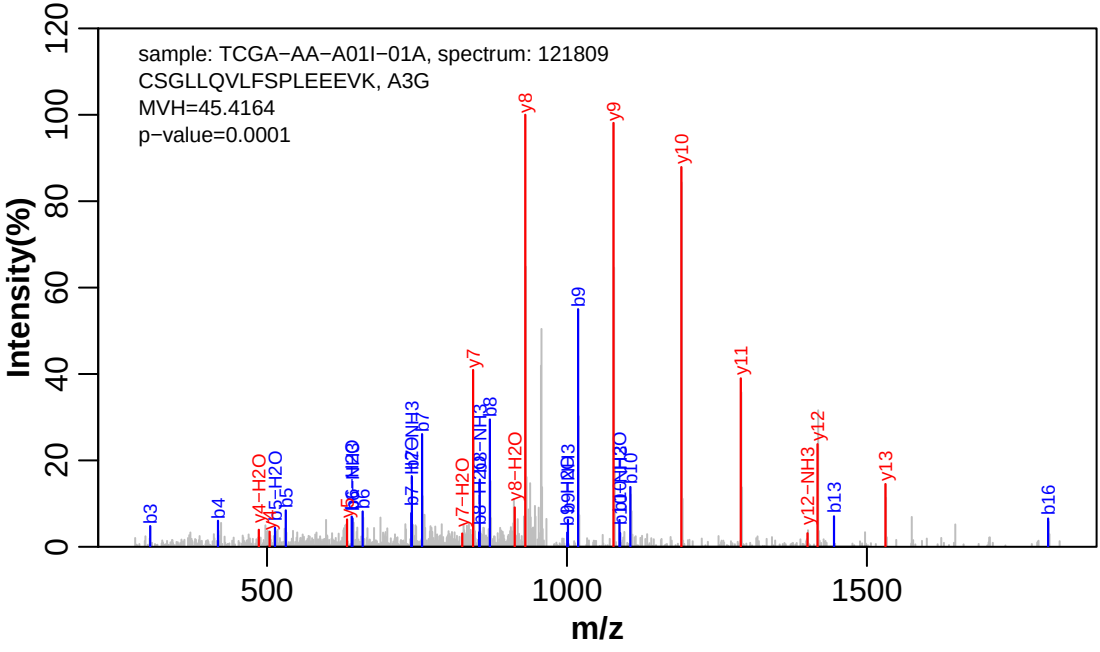

sample: TCGA−AA−A01I−01A, spectrum: 9968
AGVETTTPSK, K7T
MVH=54.1930
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

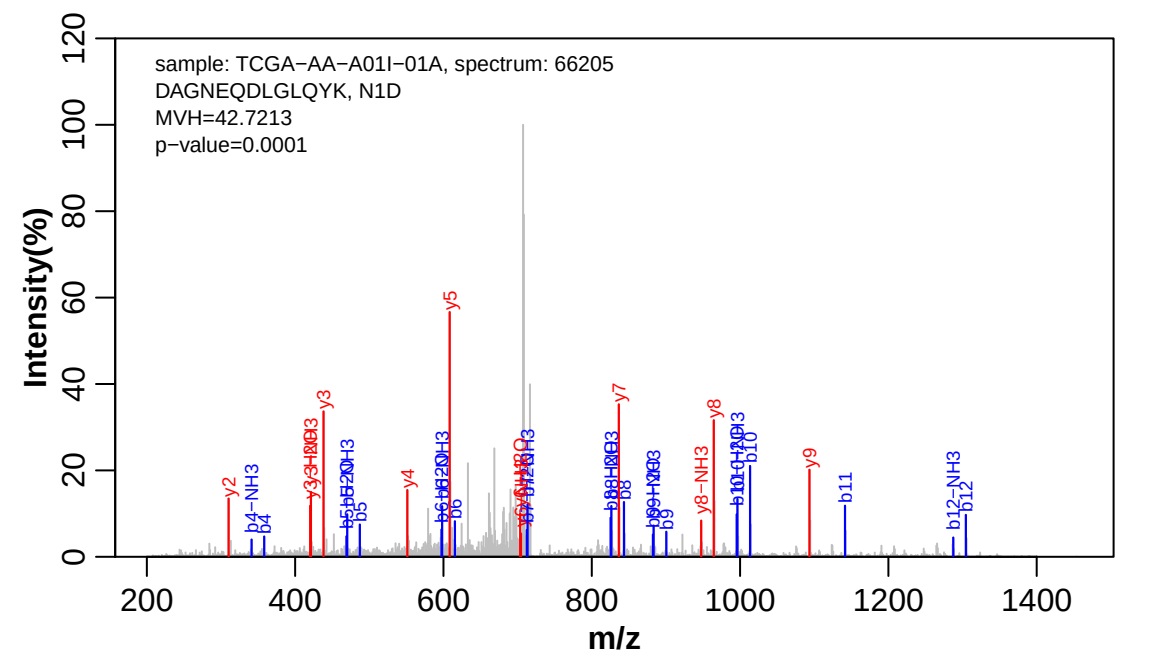

sample: TCGA−AA−A01I−01A, spectrum: 42026
APSQHLSSFDPCFYR, R5|5
MVH=68.0845
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y5++
y6++
y5
b10++
b10
b7
b9
b12++
b6
b5−H2O
y8++−H2O
y9++−H2O
b10++−H2O
b10++−NH3
b10++−2H2O
y7++−H2O
y7++−NH3
y7++−2H2O
y6++−H2O
y6++−NH3
y6++−2H2O
b9++−H2O
b9++−NH3
b9++−2H2O
b10

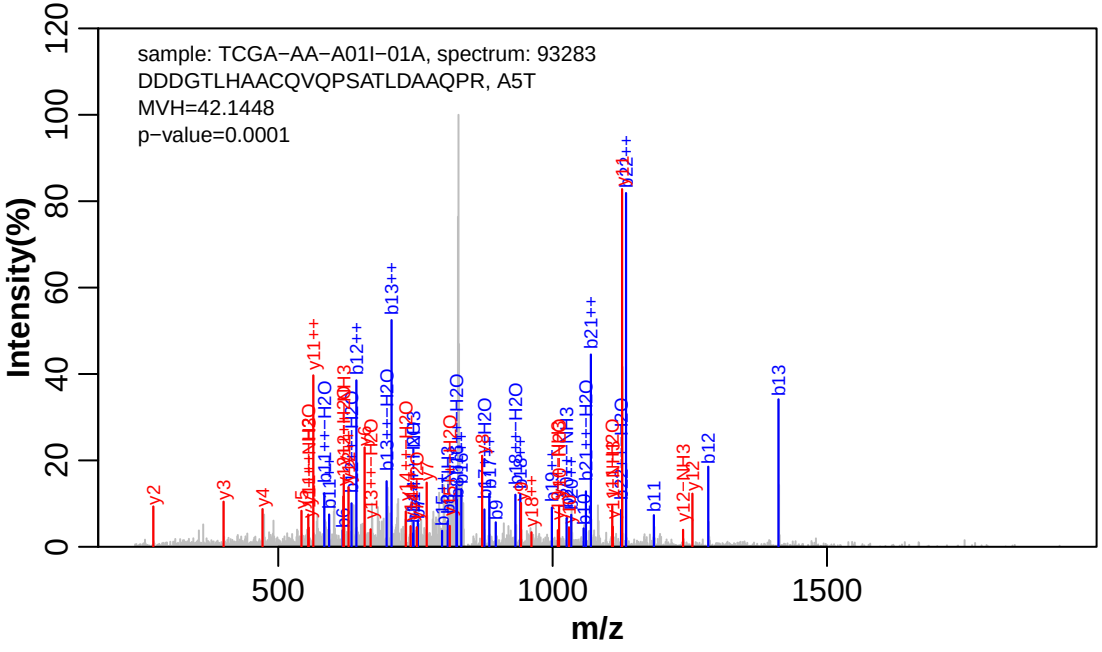

sample: TCGA−AA−A01I−01A, spectrum: 59575
AQEGSLDEEAYLTLEK, V4G
MVH=27.5459
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b7−H2O
y6
y7
y8
y10
y13

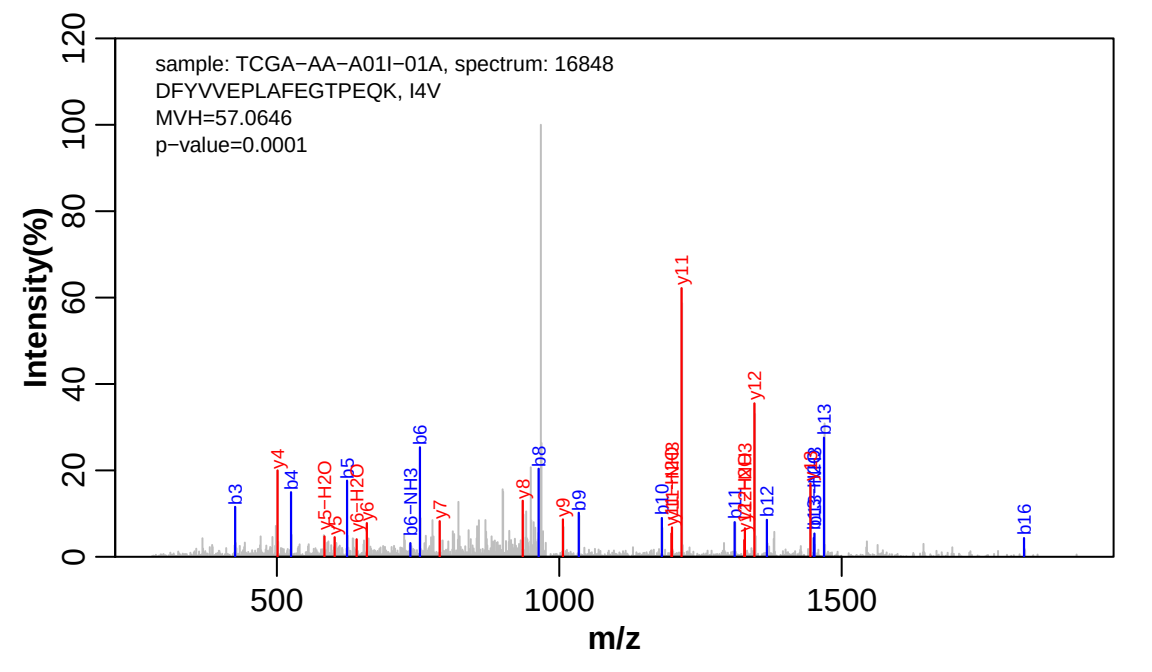

sample: TCGA−AA−A01I−01A, spectrum: 14748
AWLSSQAAELER, V7A
MVH=52.2221
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
b5
y5
y6
b7
y7
b8
y8
y9
b9
b10
y10
b11
b11−H2O

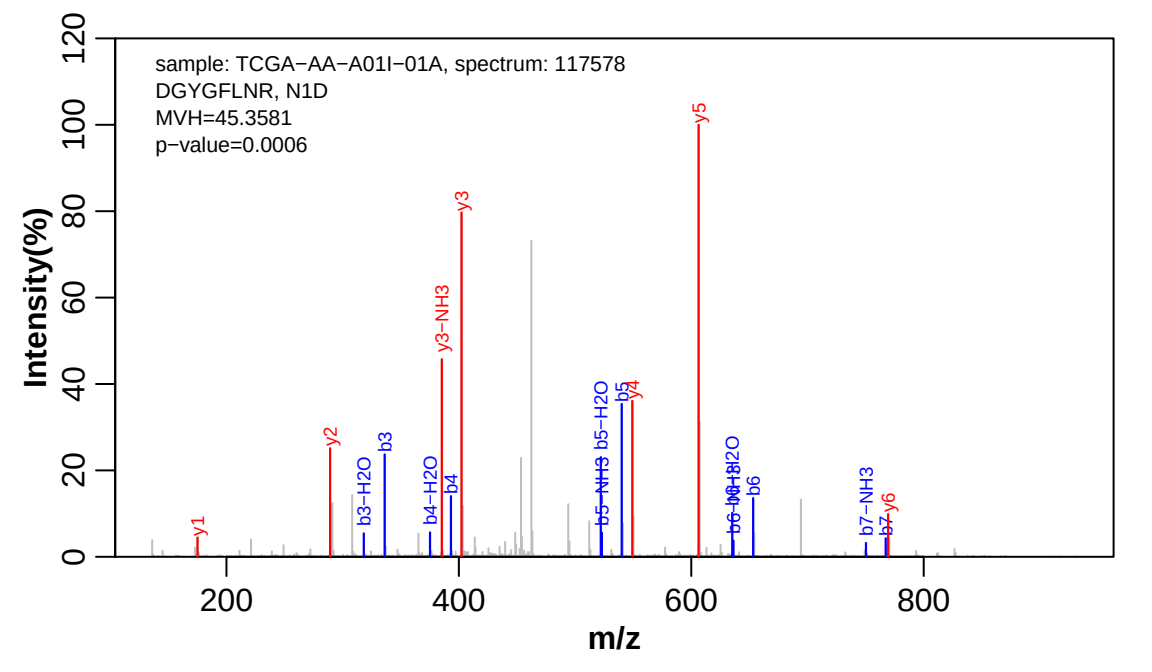

sample: TCGA−AA−A01I−01A, spectrum: 105003
CDPGALVLPFSGALELK, Y1C
MVH=66.4185
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

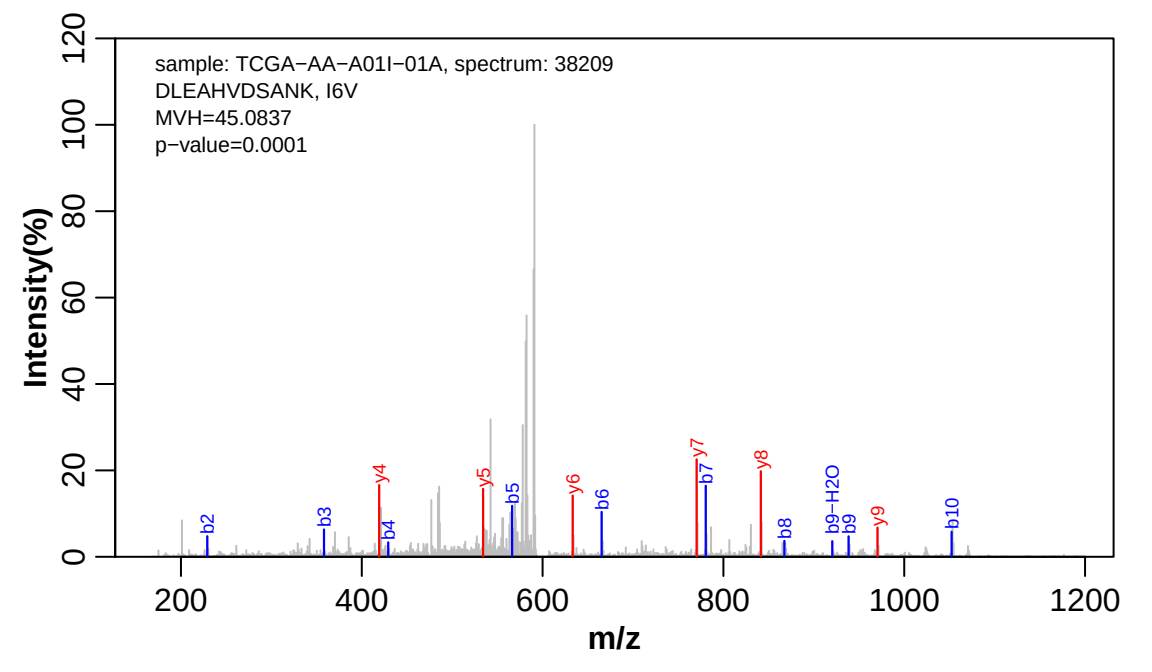

sample: TCGA−AA−A01I−01A, spectrum: 121809
CSGLLQVLFSPLEEEVK, A3G
MVH=45.4164
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4
y4−H2O
y5−H2O
b5
b6
b7
y7
y7−H2O
b8
y8
y8−H2O
b9
y9
y10
y11
y12
y12−NH3
b13
y13
b16

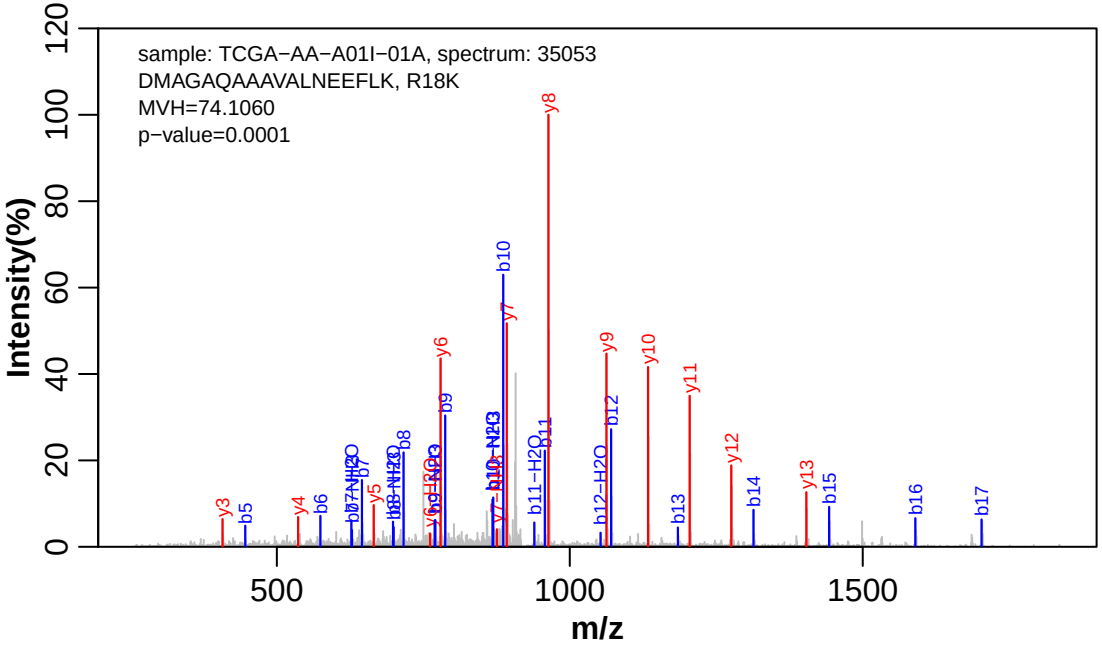

sample: TCGA−AA−A01I−01A, spectrum: 66205
DAGNEQDLGLQYK, N1D
MVH=42.7213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−NH3
b4
y3
y3−NH3
b5−NH3
b5
y4
b6−NH3
b6
y5
y7
b8
y8
y8−NH3
b9
b10
y9
b11
b12−NH3
b12

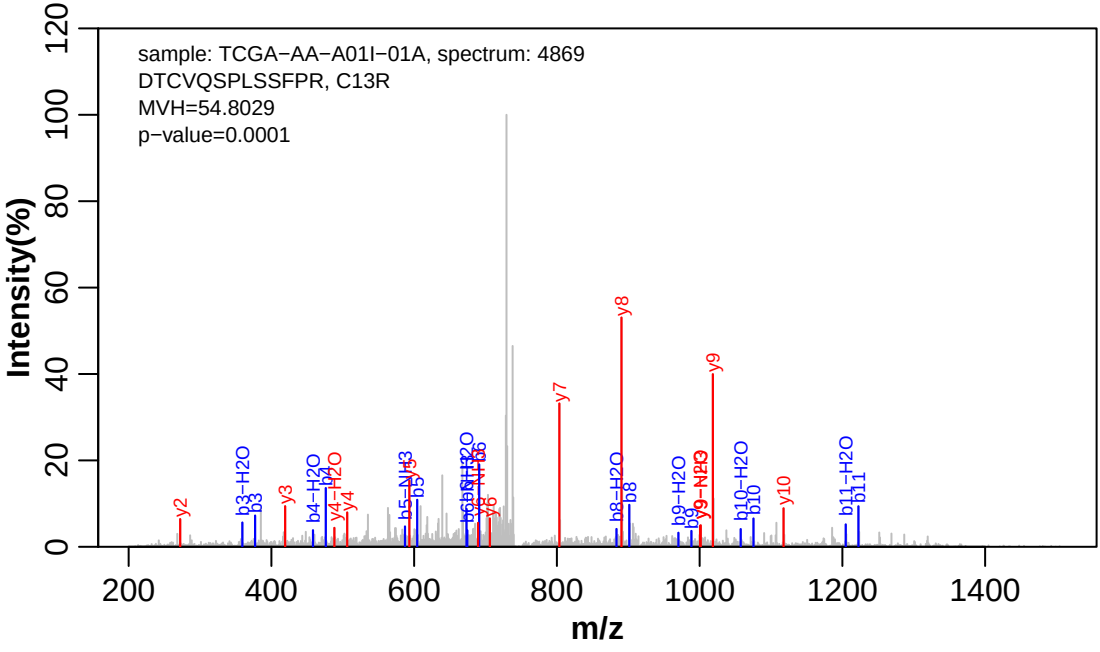

sample: TCGA−AA−A01I−01A, spectrum: 93283
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=42.1448
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
y4
b11
b12
b13
b13++
b21++
b22++
y11++
y12−NH3

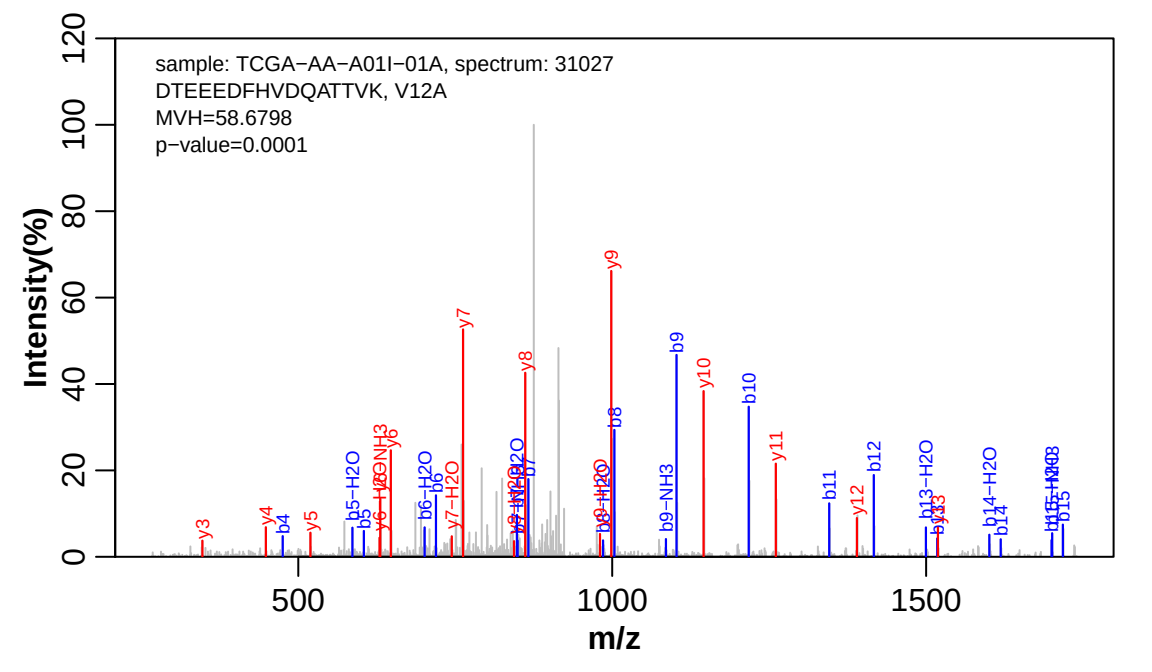

sample: TCGA−AA−A01I−01A, spectrum: 16848
DFYVVEPLAFEGTPEQK, I4V
MVH=57.0646
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5−H2O
y5
b5
y6−H2O
y6
b6
b6−NH3
y7
y8
b8
y9
b9
b10
y11
y11−H2O
y11−NH3
b11
y12
y12−H2O
y12−NH3
b12
b13
b16

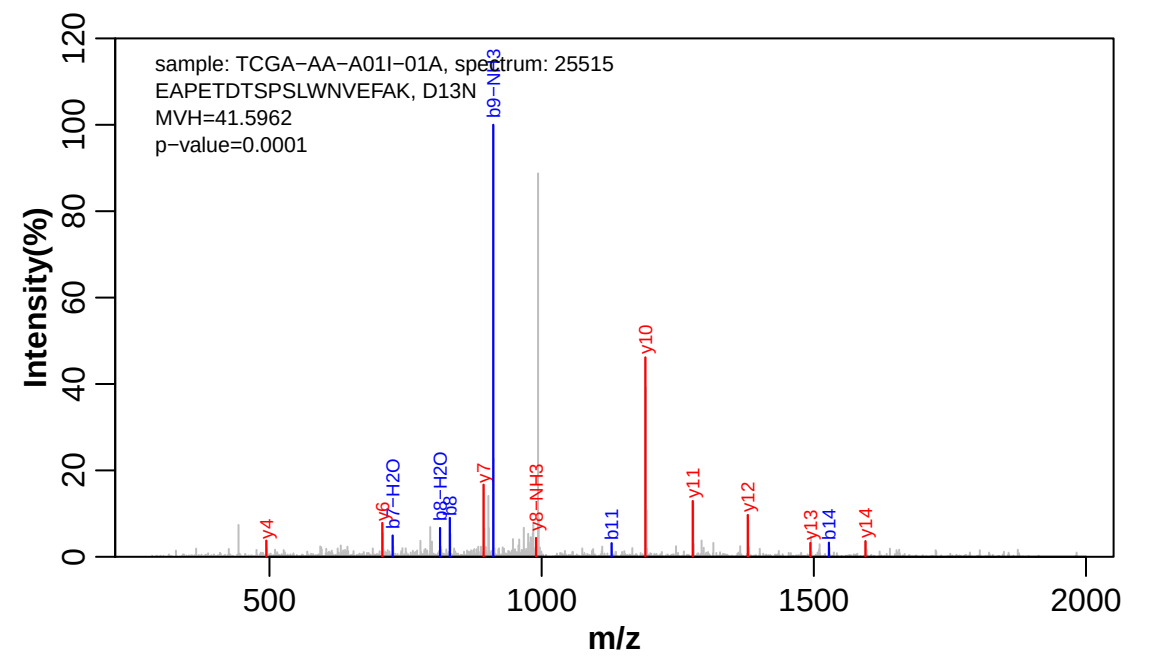

sample: TCGA−AA−A01I−01A, spectrum: 117578
DGYGFLNR, N1D
MVH=45.3581
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3
b3−H2O
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
b5−NH3
y5
b6−H2O
b6
b7−NH3
b7
y6

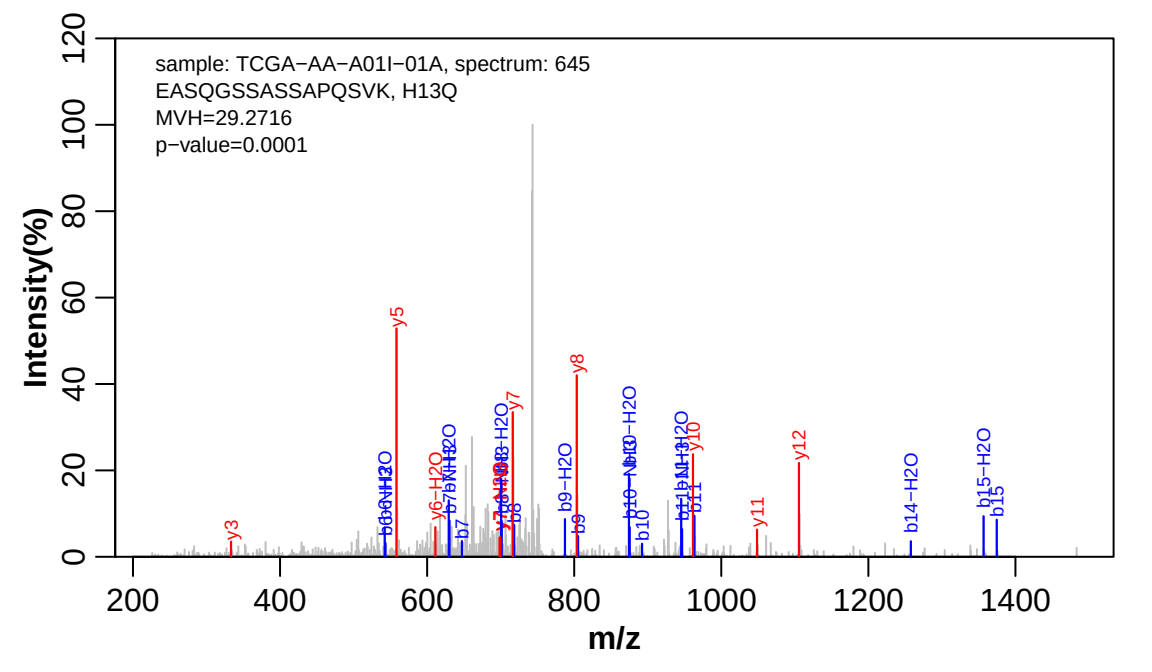

sample: TCGA−AA−A01I−01A, spectrum: 38209
DLEAHVDSANK, I6V
MVH=45.0837
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
b4
y5
b5
y6
b6
y7
b7
y8
b8
b9−H2O
b9
y9
b10

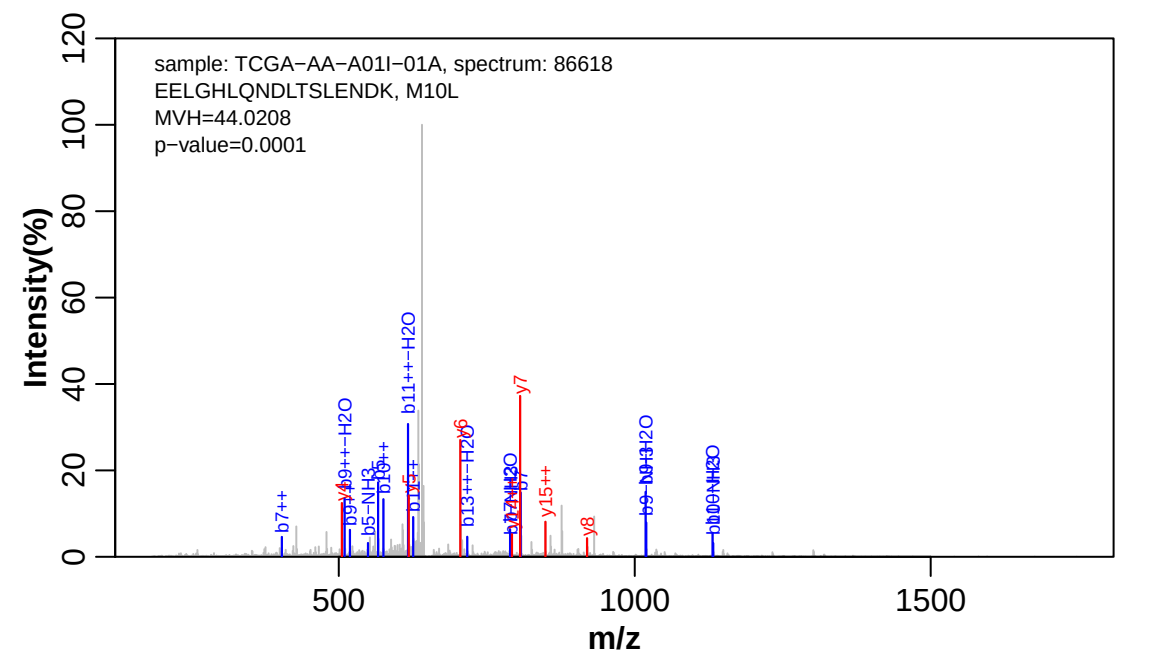

sample: TCGA−AA−A01I−01A, spectrum: 35053
DMAGAQAAAVALNEEFLK, R18K
MVH=74.1060
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
y4
b6
y5
b7
b8
y6
b9
y8
b10
y7
b11
y9
b12
y10
y11
y12
b13
b14
y13
b15
b16
b17

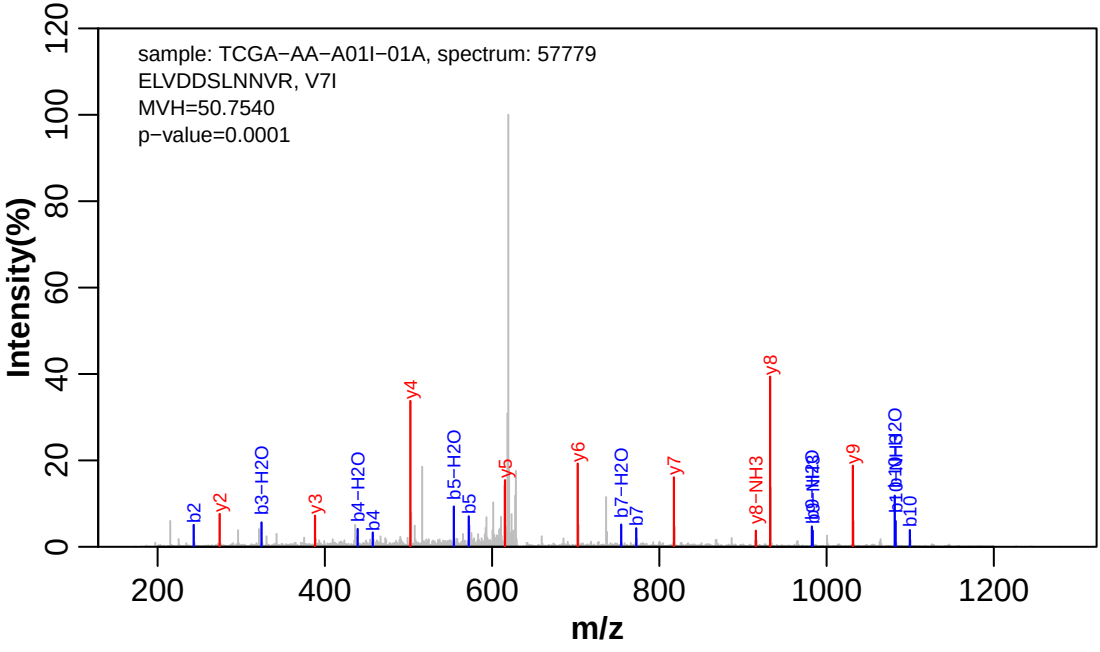

sample: TCGA−AA−A01I−01A, spectrum: 4869
DTCVQSPLSSFPR, C13R
MVH=54.8029
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
b5−NH3
b5
y8
y7
b8−H2O
b8
y9
b9−H2O
b9
y9−NH3
b10−H2O
b10
y10
b11−H2O
b11

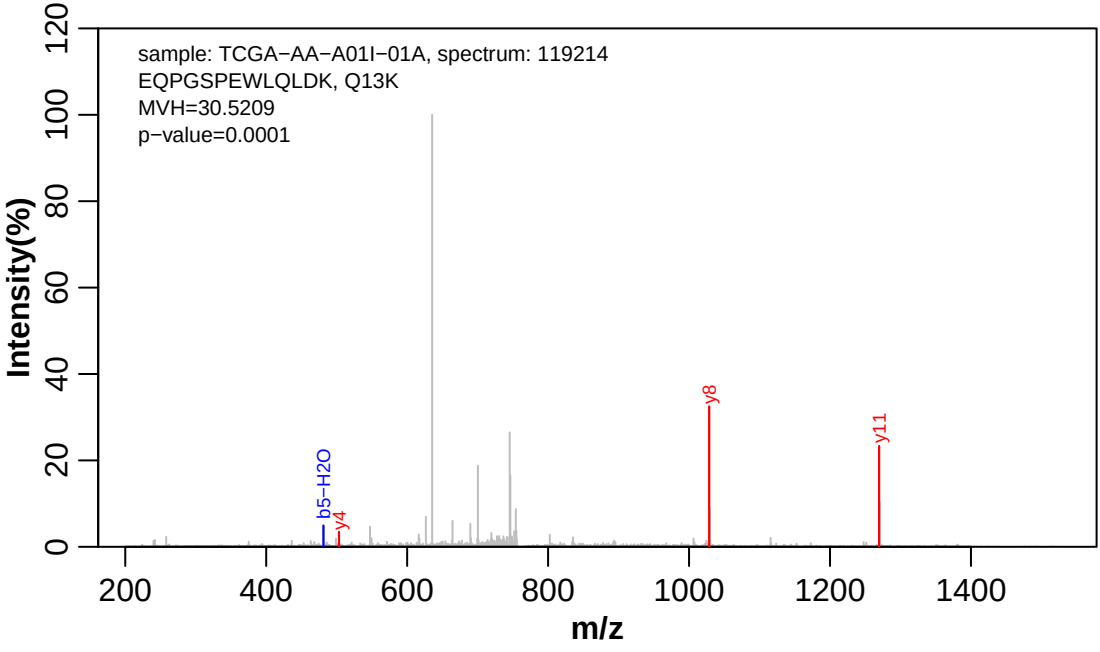

sample: TCGA−AA−A01I−01A, spectrum: 31027
DTEEEDFHVDQATTVK, V12A
MVH=58.6798
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b4
y5
b5
b5−H2O
y6
y6−NH3
b6
b6−H2O
y7
y7−H2O
y8
b7
b8
b8−H2O
y9
b9
b9−NH3
y10
b10
y11
b11
y12
b12
b13−H2O
b14
b14−H2O
b15

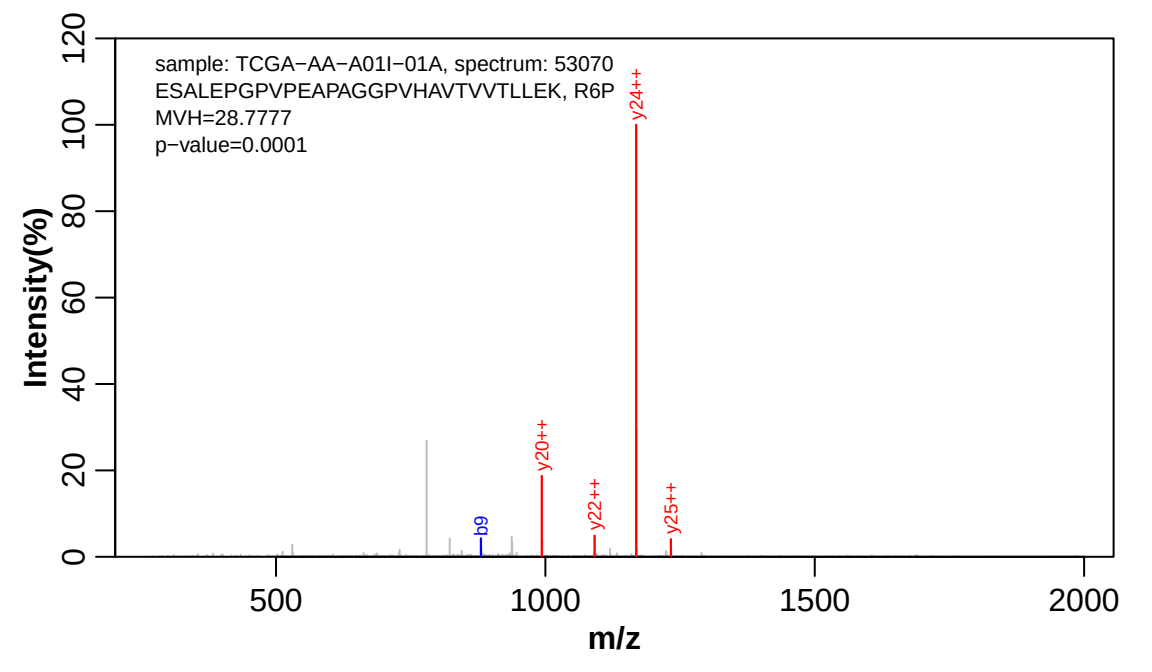

sample: TCGA−AA−A01I−01A, spectrum: 25515
EAPETDTSPSLWNVEFAK, D13N
MVH=41.5962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y6
b7−H2O
b8−H2O
b8
y7
b9−NH3
y8−NH3
b11
y10
y11
y12
y13
b14
y14

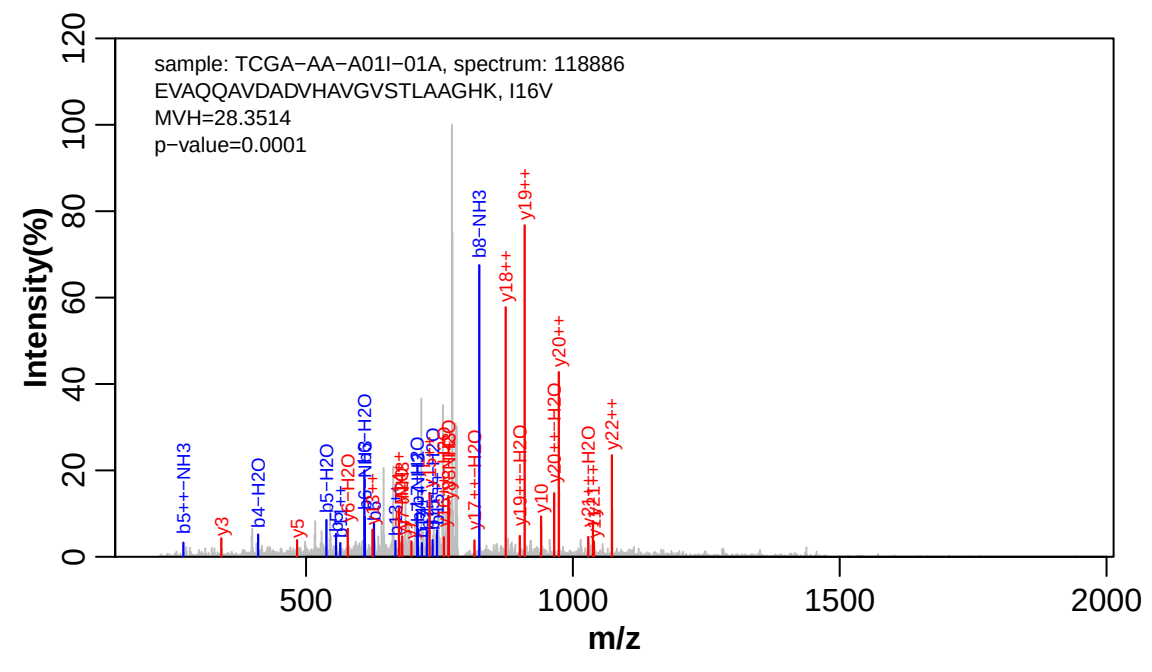

sample: TCGA−AA−A01I−01A, spectrum: 645
EASQGSSASSAPQSVK, H13Q
MVH=29.2716
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
y5
y6−H2O
b7
b8
y7
b9−H2O
b9
y8
b10−NH3
b10−H2O
b10
y10
y11
y12
b14−H2O
b15−H2O
b15

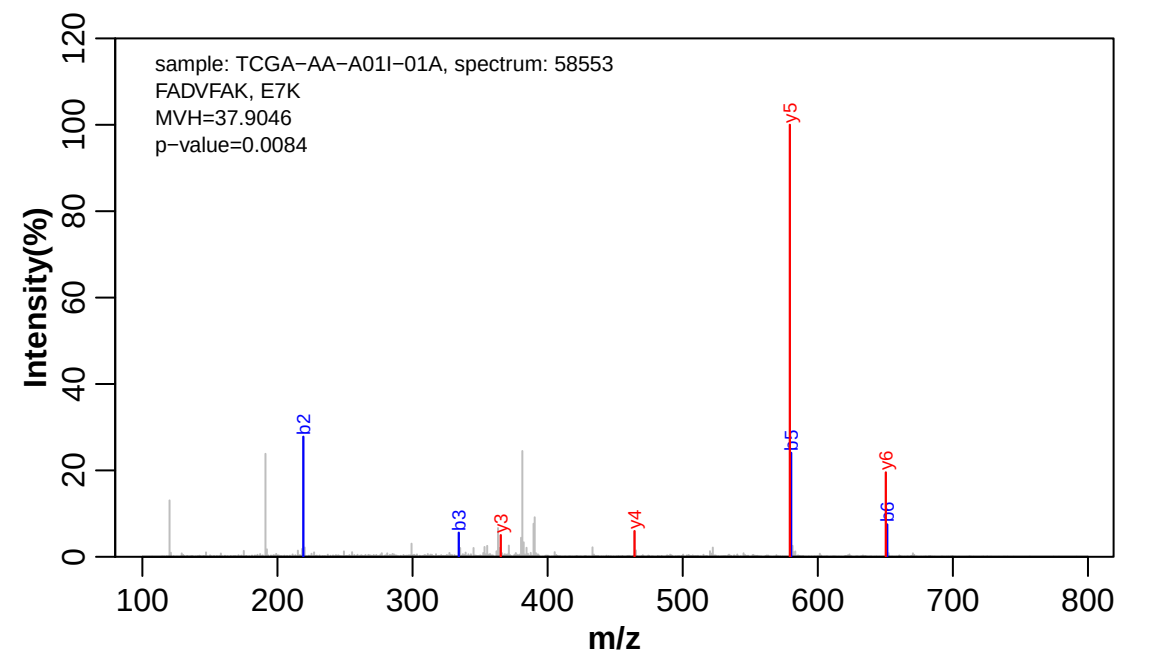

sample: TCGA−AA−A01I−01A, spectrum: 86618
EELGHLQNDLTSLENDK, M10L
MVH=44.0208
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
b9++−H2O
b5−NH3
b10++
b11++−H2O
b13++−H2O
y7
y15++
y8

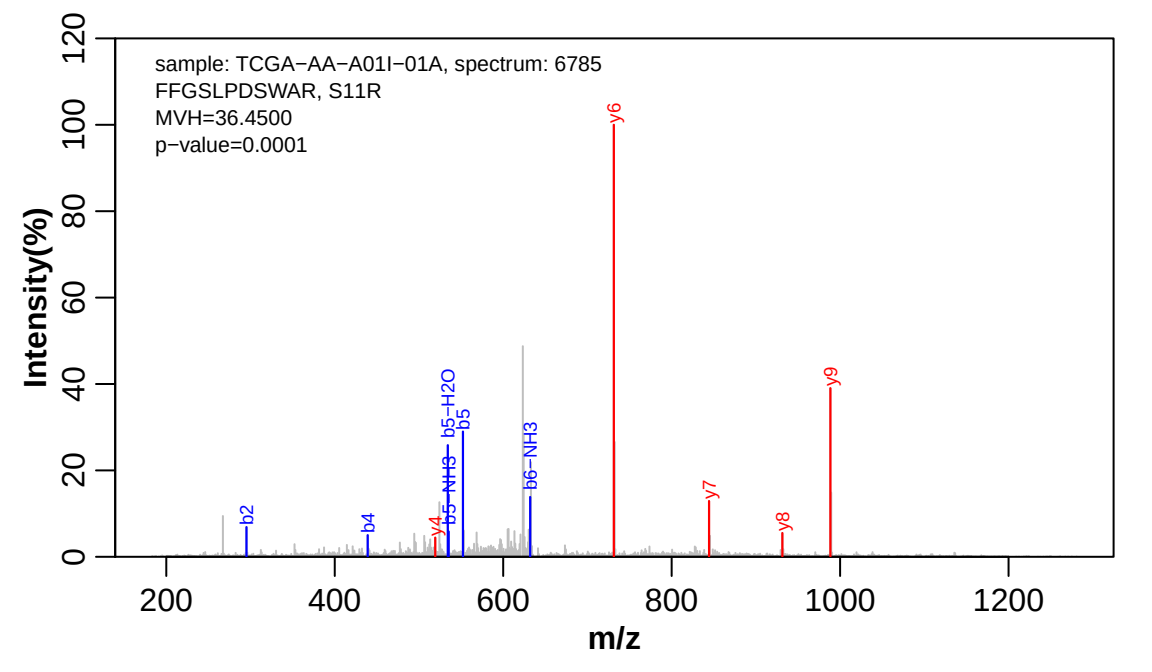

sample: TCGA−AA−A01I−01A, spectrum: 57779
ELVDDSLNNVR, V7I
MVH=50.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8−NH3
y8
y9
b10

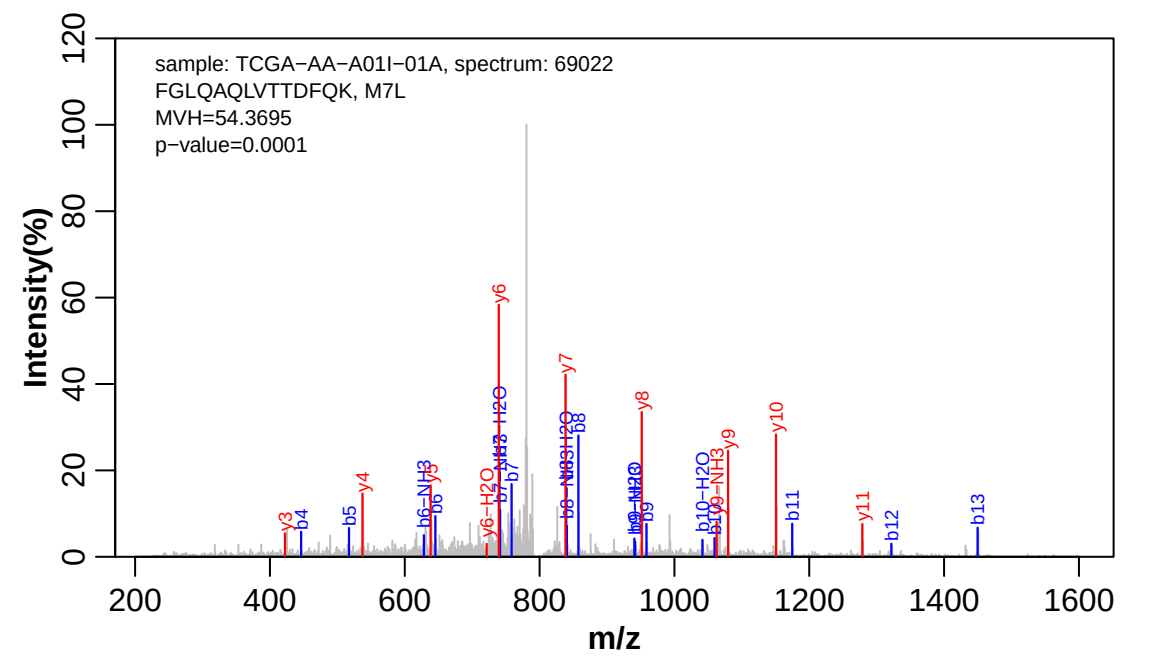

sample: TCGA−AA−A01I−01A, spectrum: 119214
EQPGSPEWLQLDK, Q13K
MVH=30.5209
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

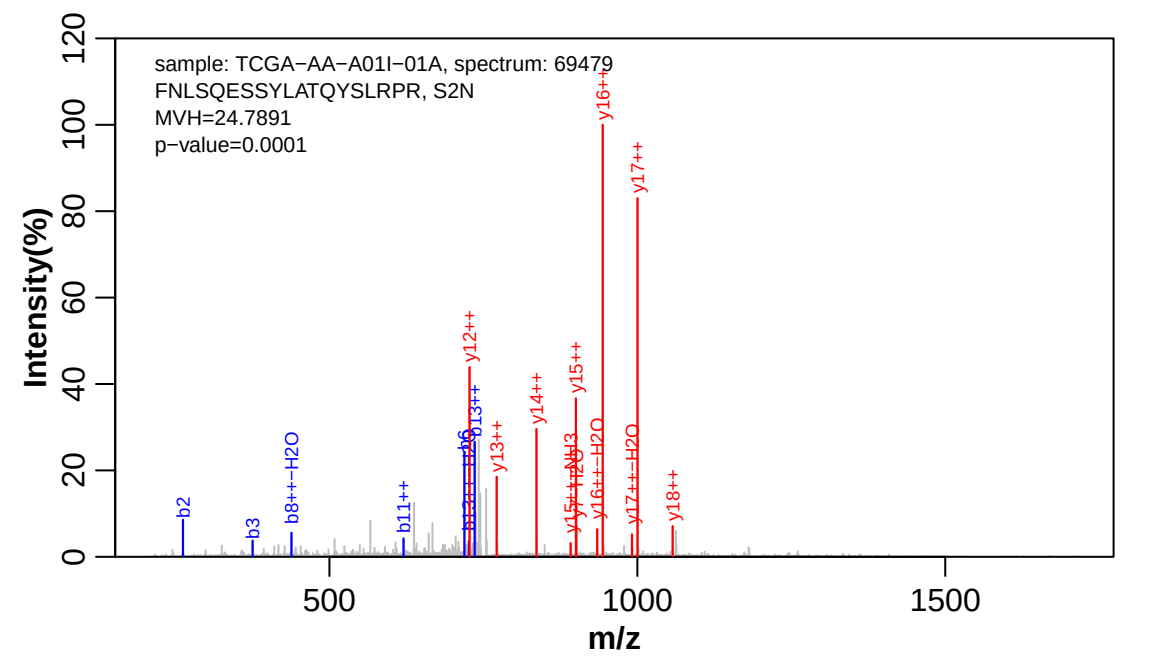

sample: TCGA−AA−A01I−01A, spectrum: 53070
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=28.7777
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

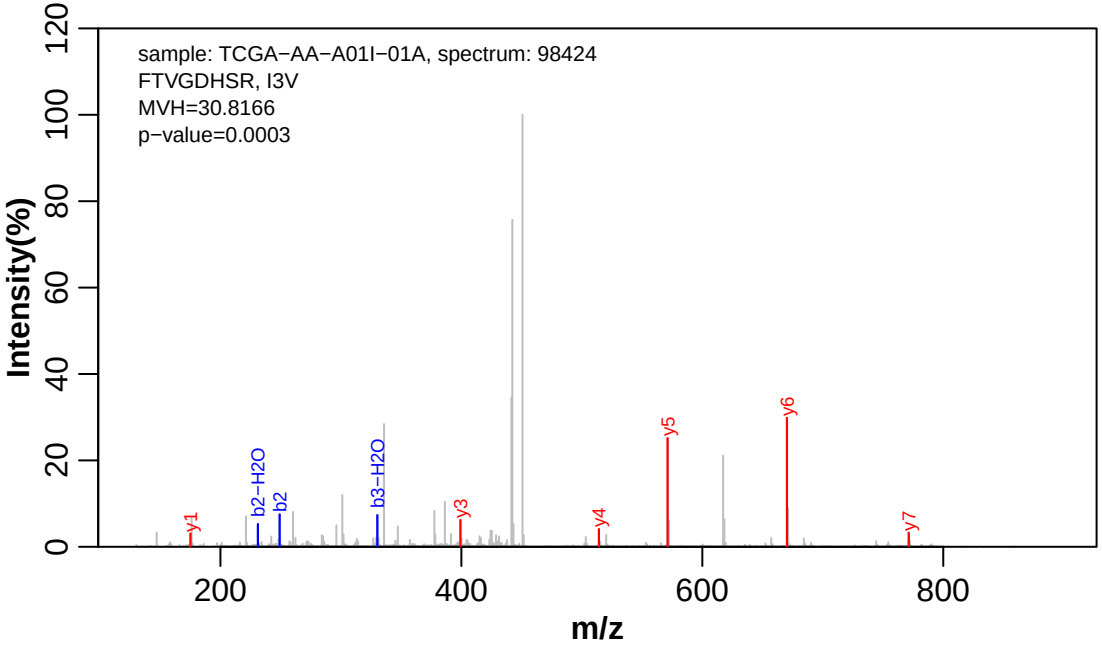

sample: TCGA−AA−A01I−01A, spectrum: 118886
EVAQQAVDADVHAVGVSTLAAGHK, I16V
MVH=28.3514
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5++−NH3
y3
b4−H2O
y5
b5−H2O
b8−NH3
y19++
y18++
y20++
y22++
y10
y17++−H2O
y19++−H2O
y20++−H2O

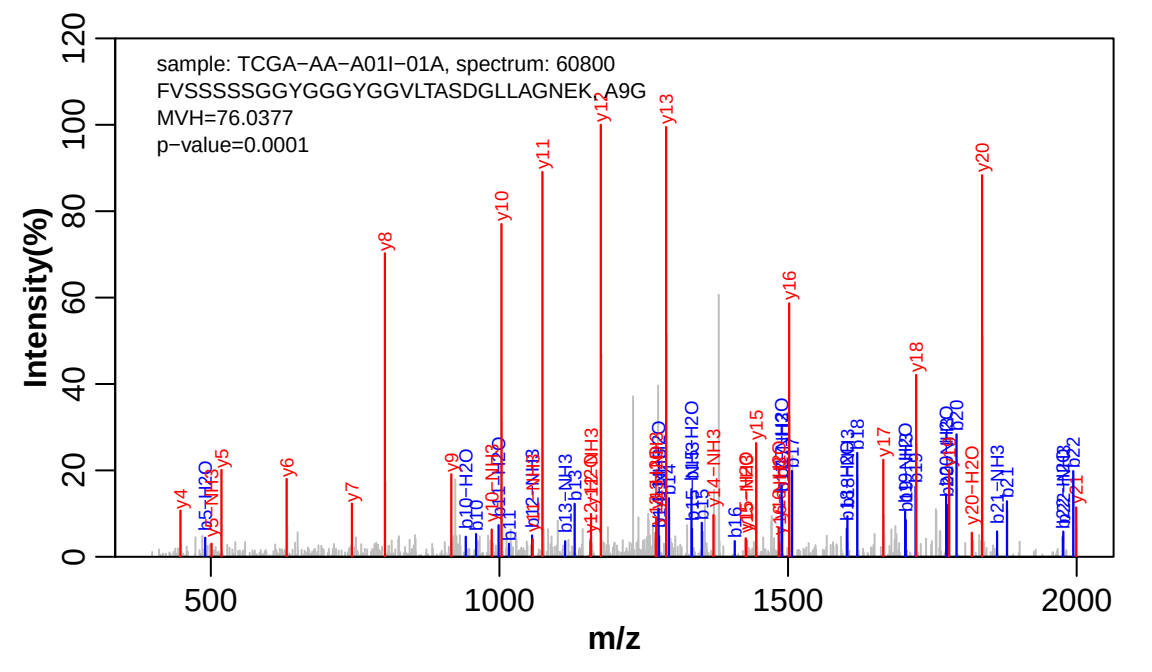

sample: TCGA−AA−A01I−01A, spectrum: 58553
FADVFAK, E7K
MVH=37.9046
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

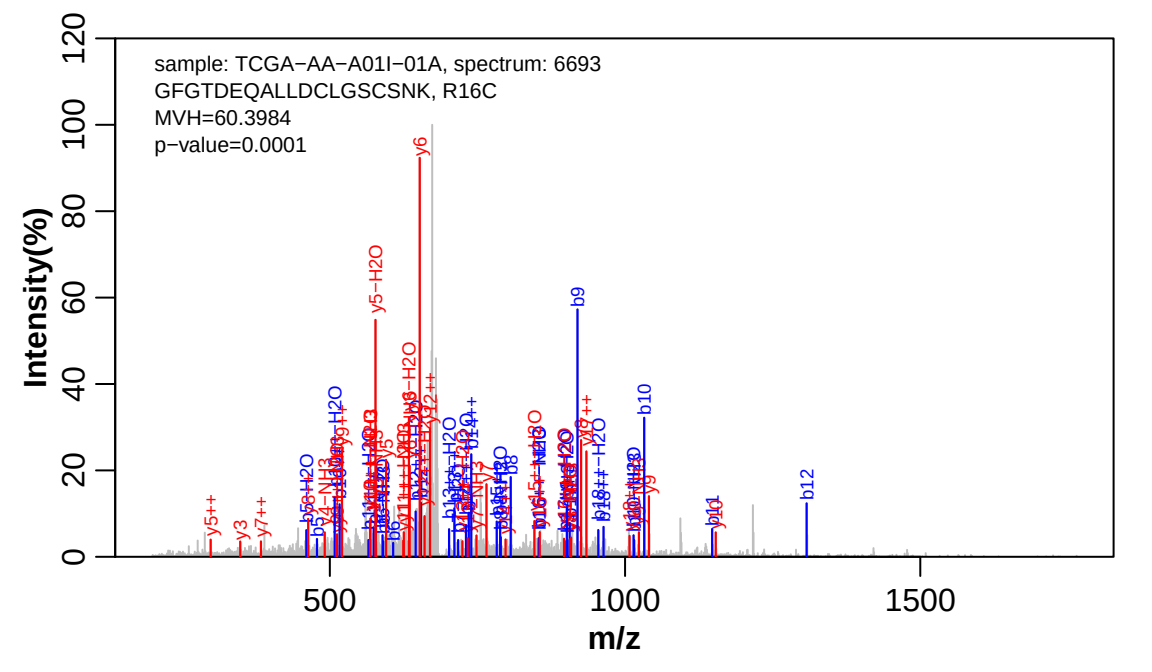

sample: TCGA−AA−A01I−01A, spectrum: 6785
FFGSLPDSWAR, S11R
MVH=36.4500
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

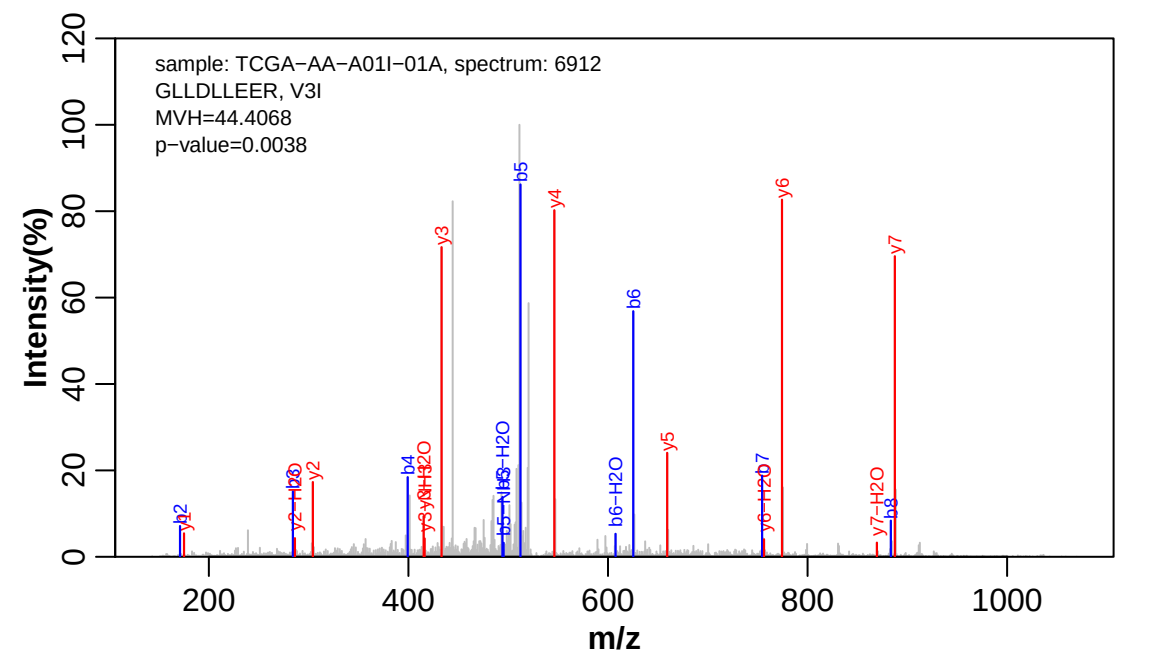

sample: TCGA−AA−A01I−01A, spectrum: 69022
FGLQAQLVTTDFQK, M7L
MVH=54.3695
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4
b5
y4
b6−NH3
y5
b6
y6−H2O
b7
y6
b8−NH3−H2O
b8
y7
b9−NH3
b9
y8
b10−H2O
b10−NH3
y9
y10
b11
y11
b12
b13

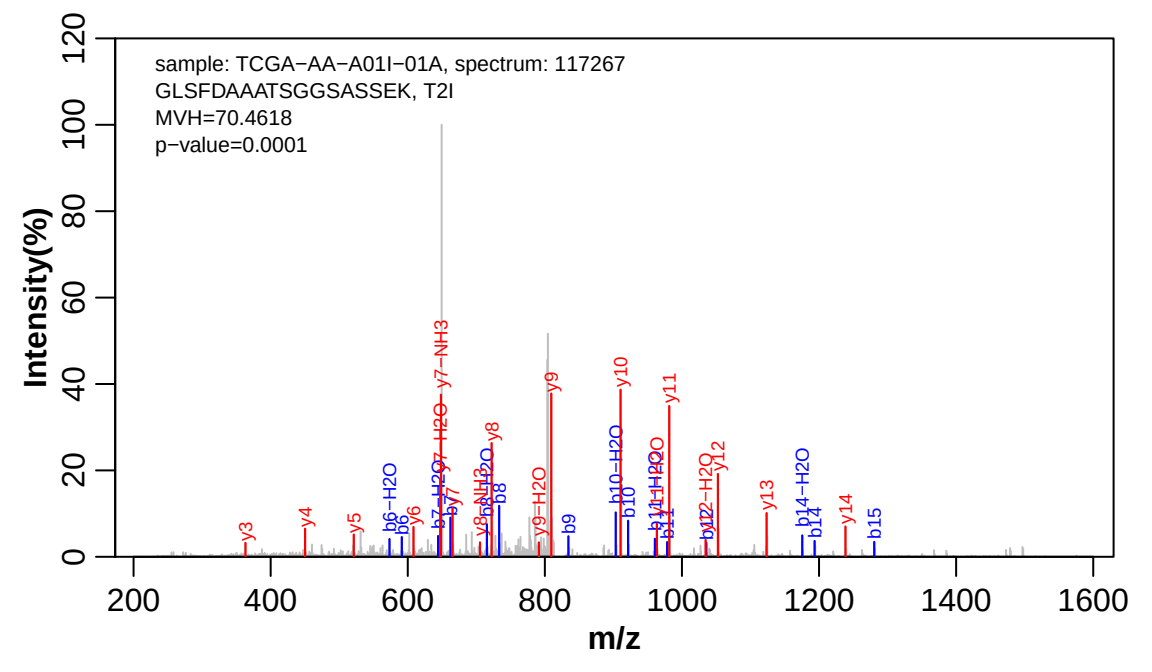

sample: TCGA−AA−A01I−01A, spectrum: 69479
FNLSQESSYLATQYSLRPR, S2N
MVH=24.7891
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b8++−H2O
b11++
b6
b13++
y12++
y13++
y14++
y15++
y16++
y16++−H2O
y17++
y17++−H2O
y18++

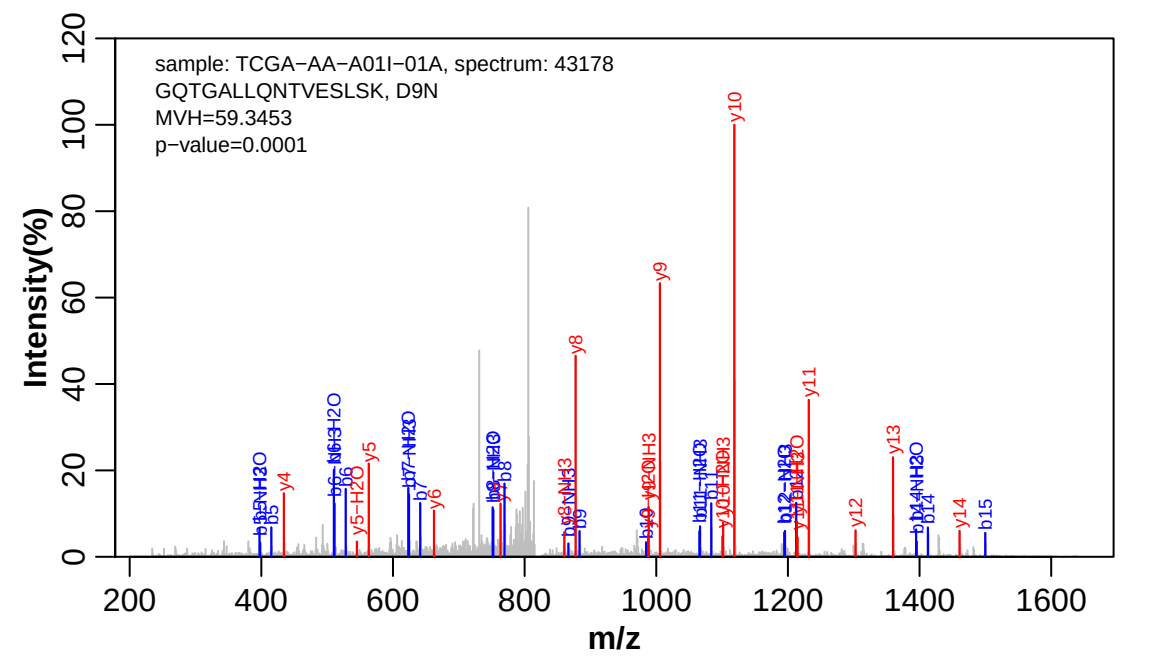

sample: TCGA−AA−A01I−01A, spectrum: 98424
FTVGDHSR, I3V
MVH=30.8166
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
y5
y6
y7

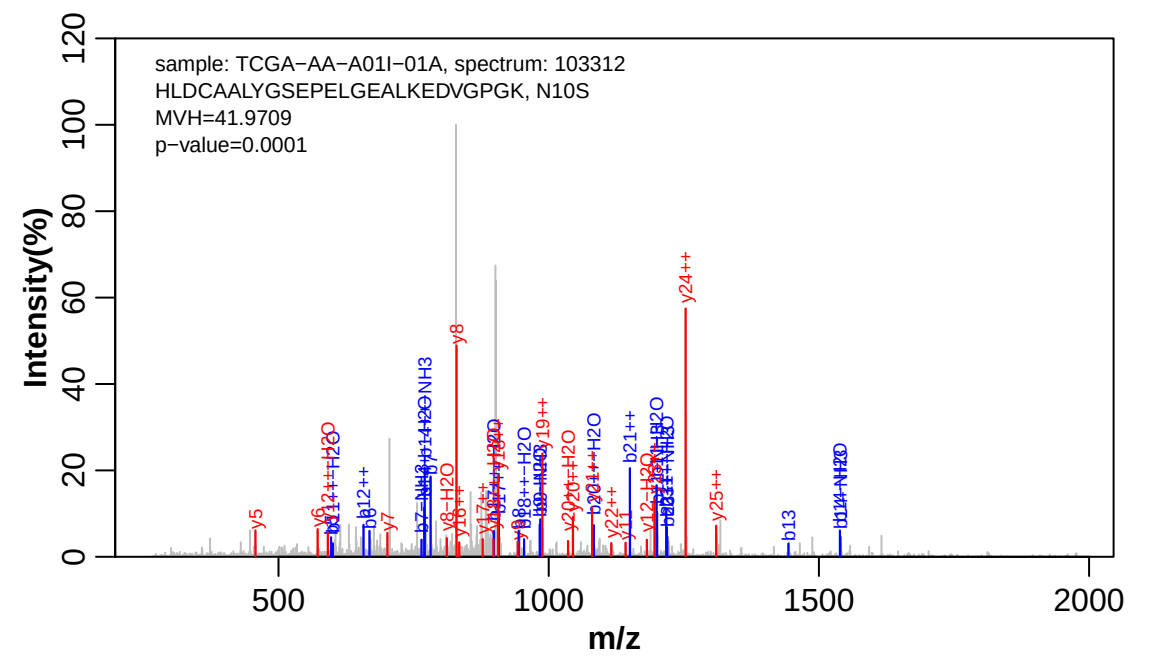

sample: TCGA−AA−A01I−01A, spectrum: 60800
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=76.0377
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y15
y16
y17
y18
y20
y21
b10−H2O
b11
b13−NH3
b15
b16
b18
b21−NH3
y20−H2O

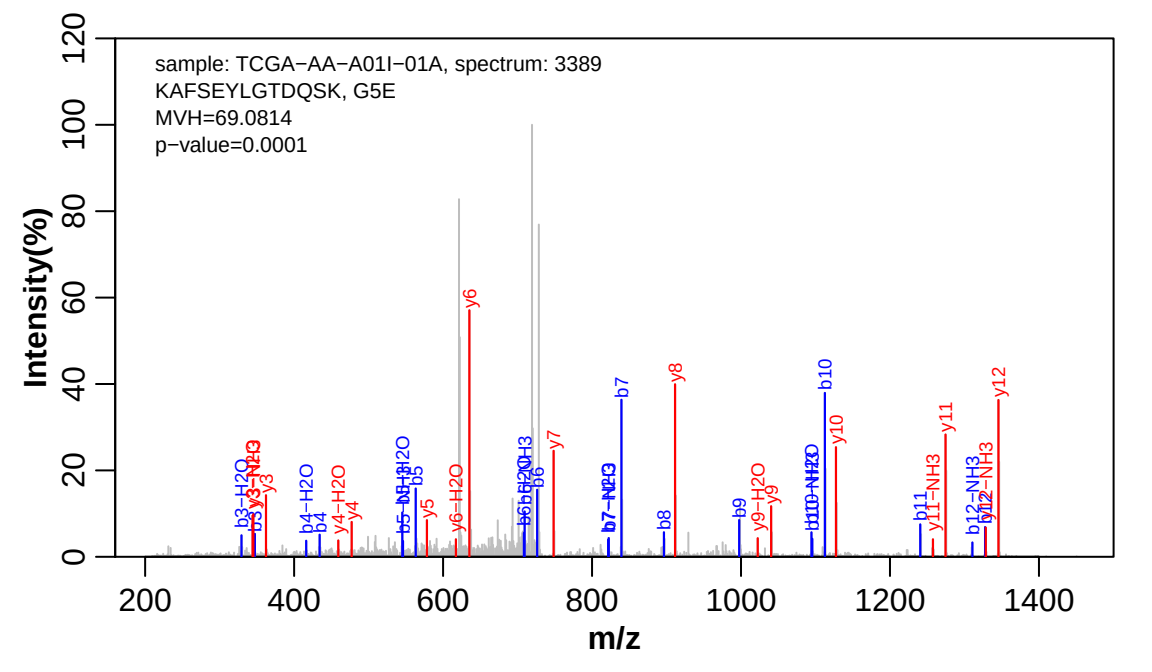

sample: TCGA−AA−A01I−01A, spectrum: 6693
GFGTDEQALLDCLGSCSNK, R16C
MVH=60.3984
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
b11
y5++
y3
y7++
y9
y8++
b8
b5−H2O

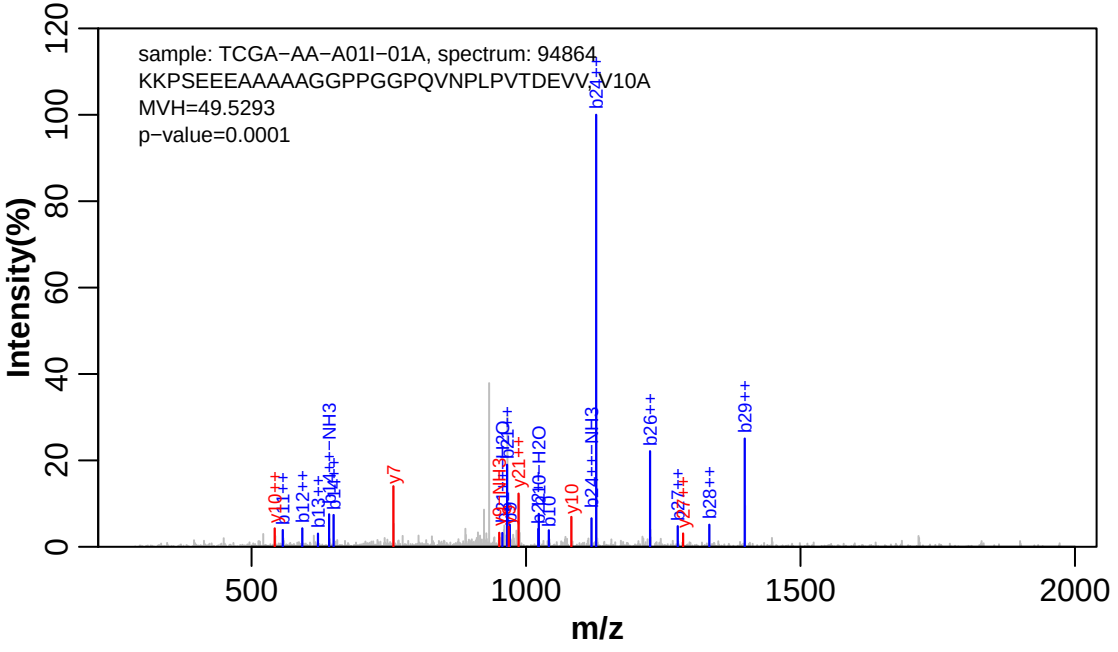

sample: TCGA−AA−A01I−01A, spectrum: 6912
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2−H2O
y2
b4
y3−H2O
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−H2O
y6
y7−H2O
y7
b8

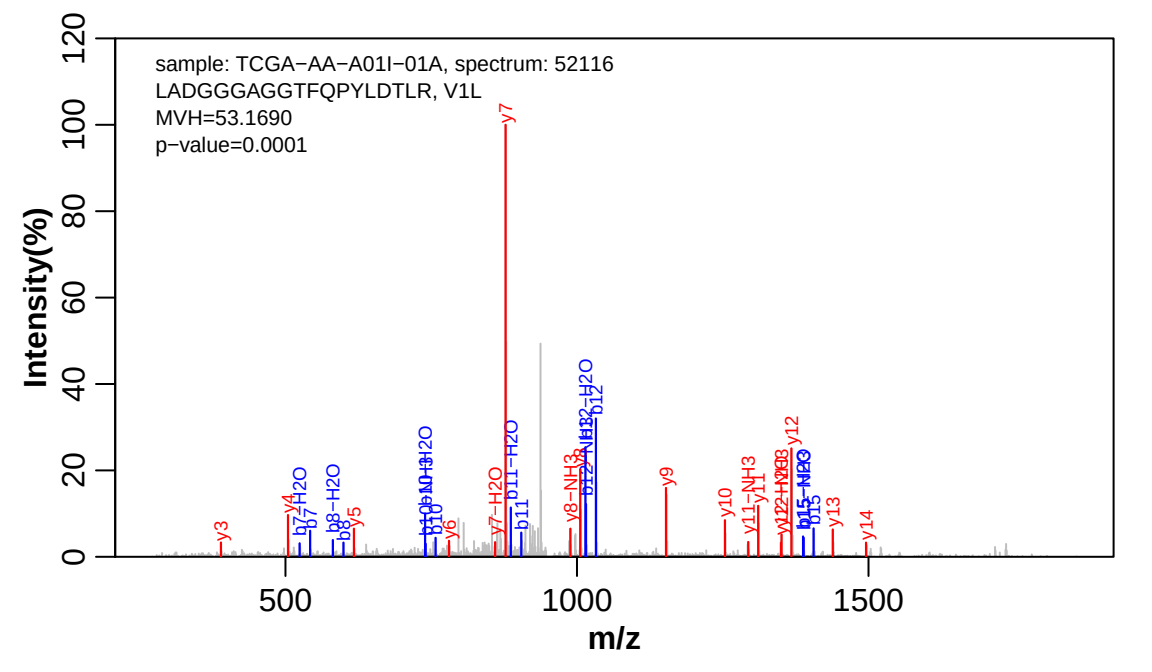

sample: TCGA−AA−A01I−01A, spectrum: 117267
GLSFDAAATSGGSASSEK, T2I
MVH=70.4618
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
b6−H2O
b6
y6
b7−H2O
y7−H2O
y7−NH3
b7
y8−NH3
b8−H2O
y8
b8
y9−H2O
y9
b9
b10−H2O
y10
b10
b11−H2O
b11
y11
b12−H2O
y12
y13
b14−H2O
b14
y14
b15

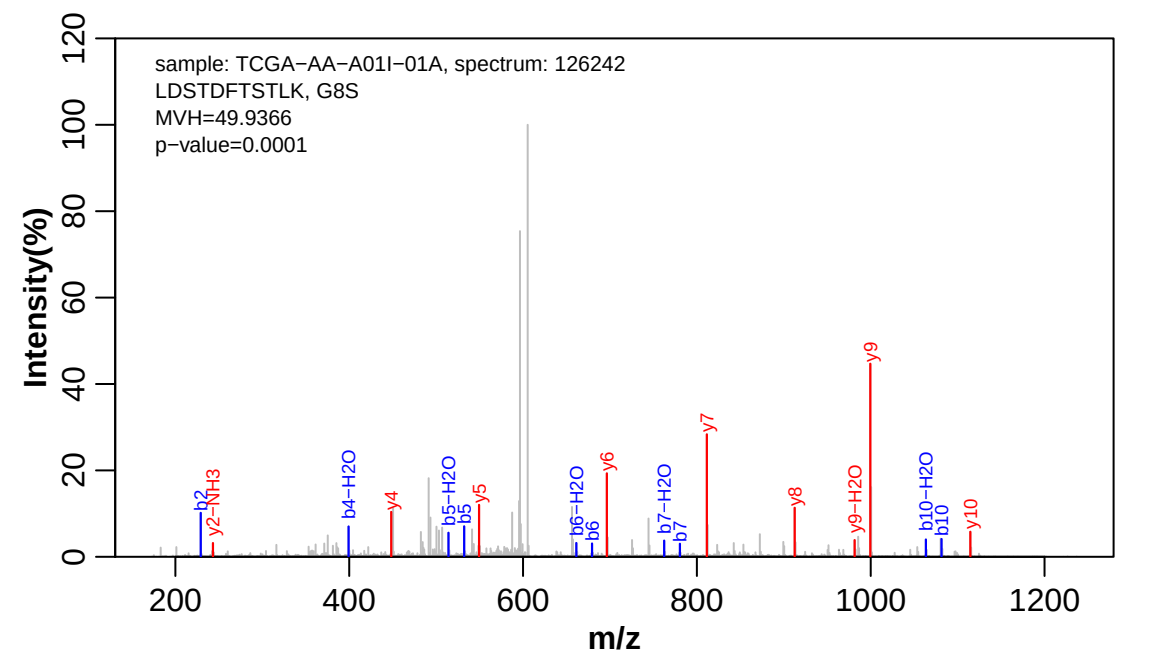

sample: TCGA−AA−A01I−01A, spectrum: 43178
GQTGALLQNTVESLSK, D9N
MVH=59.3453
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
b15
y4
y5
y6
b5
b6
b7
b8
b9
b11
b12
b14

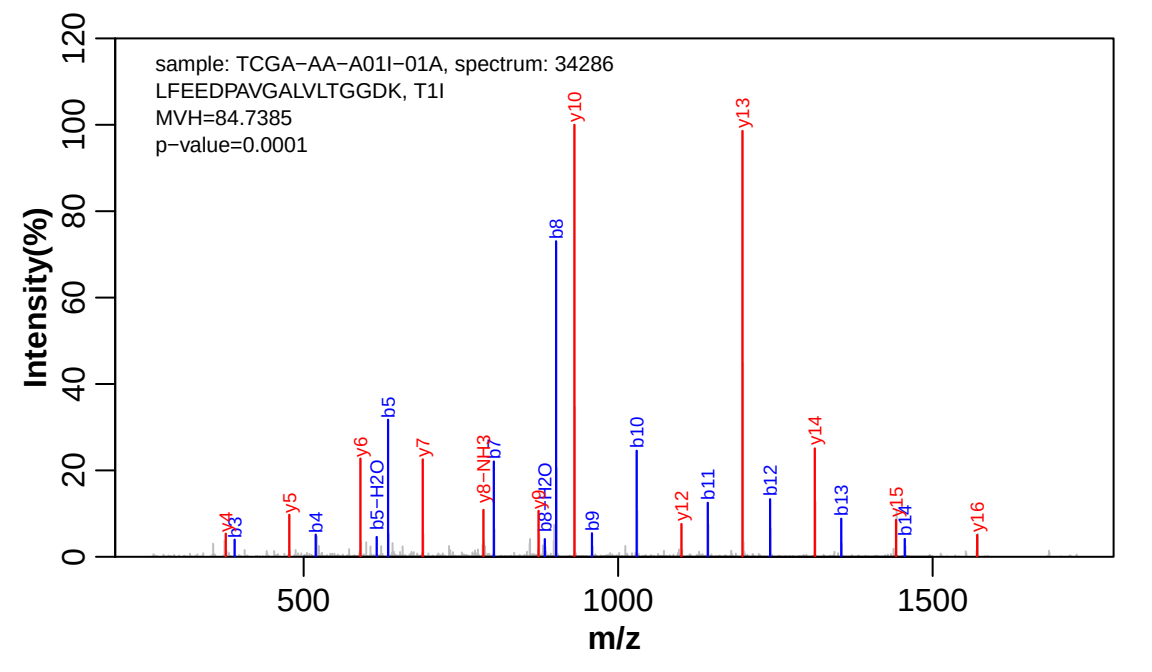

sample: TCGA−AA−A01I−01A, spectrum: 103312
HLDCAALYGSEPELGEALKEDVGPGK, N10S
MVH=41.9709
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
y6
y8
y8−H2O
y8−NH3
y16++
y17++
y18++−H2O
y19++
y20++−H2O
y20++−NH3
y21++−H2O
y22++
y24++
y25++
b12++
y7
b13
b14−NH3

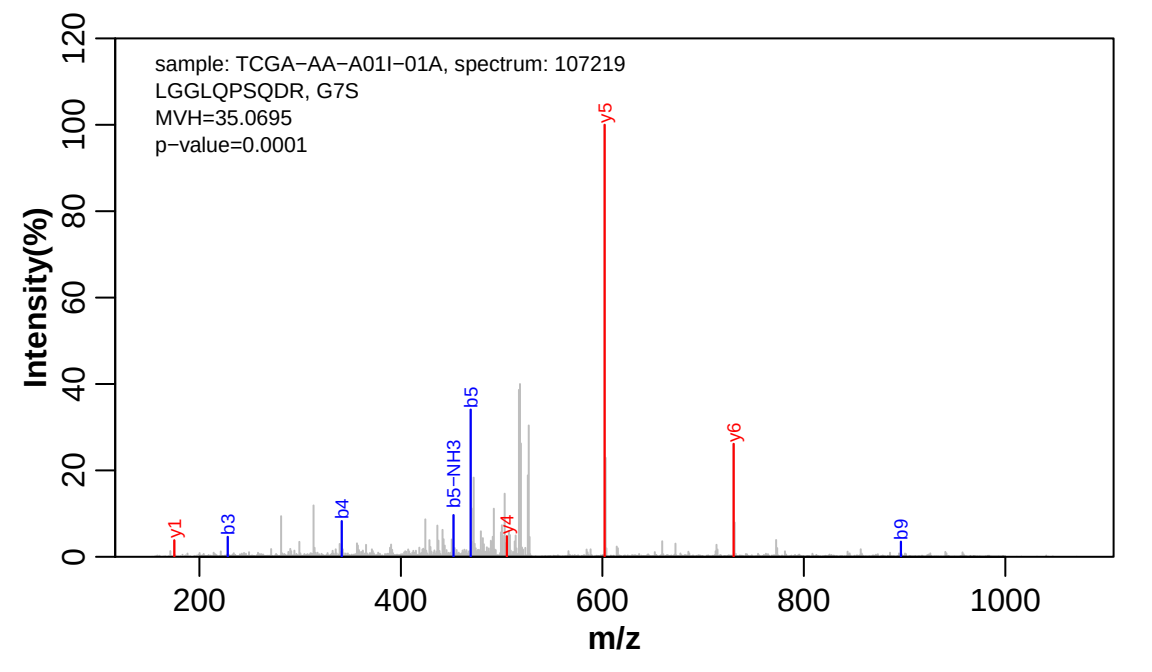

sample: TCGA−AA−A01I−01A, spectrum: 3389
KAFSEYLGTDQSK, G5E
MVH=69.0814
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
b5−NH3
b5−H2O
b5
y5
y6−H2O
y6
b6
y7
b7
y8
b8
b9
y9−H2O
y9
b10−NH3
b10−H2O
b10
y10
b11
y11−NH3
y11
b12−NH3
y12−NH3
y12

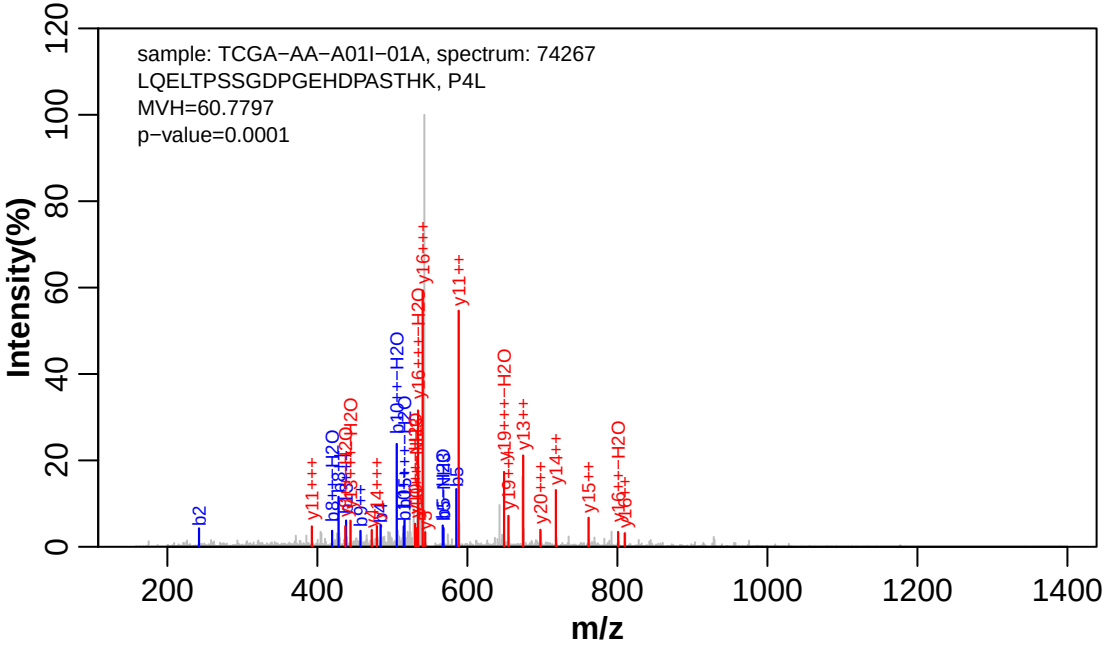

sample: TCGA−AA−A01I−01A, spectrum: 94864
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=49.5293
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
b26++
b29++
b24++−NH3
b24++
b27++
b28++
y10
y7
b21++−H2O
b11++
b12++
b13++
b14++−NH3

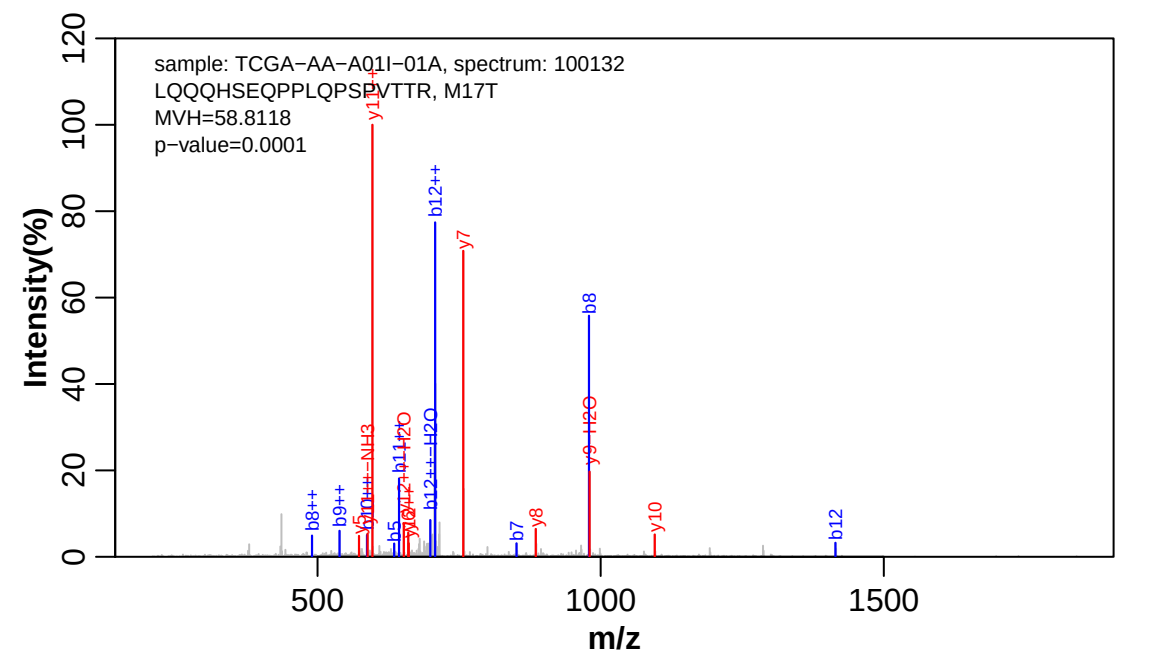

sample: TCGA−AA−A01I−01A, spectrum: 52116
LADGGGAGGTFQPYLDTLR, V1L
MVH=53.1690
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b7
b8−H2O
b8
y5
b10−NH3
b10−H2O
b10
y6
y7−H2O
b11−H2O
b11
y8−NH3
b12−NH3
b12−H2O
b12
y9
y10
y11−NH3
y11
y12
y13
y14

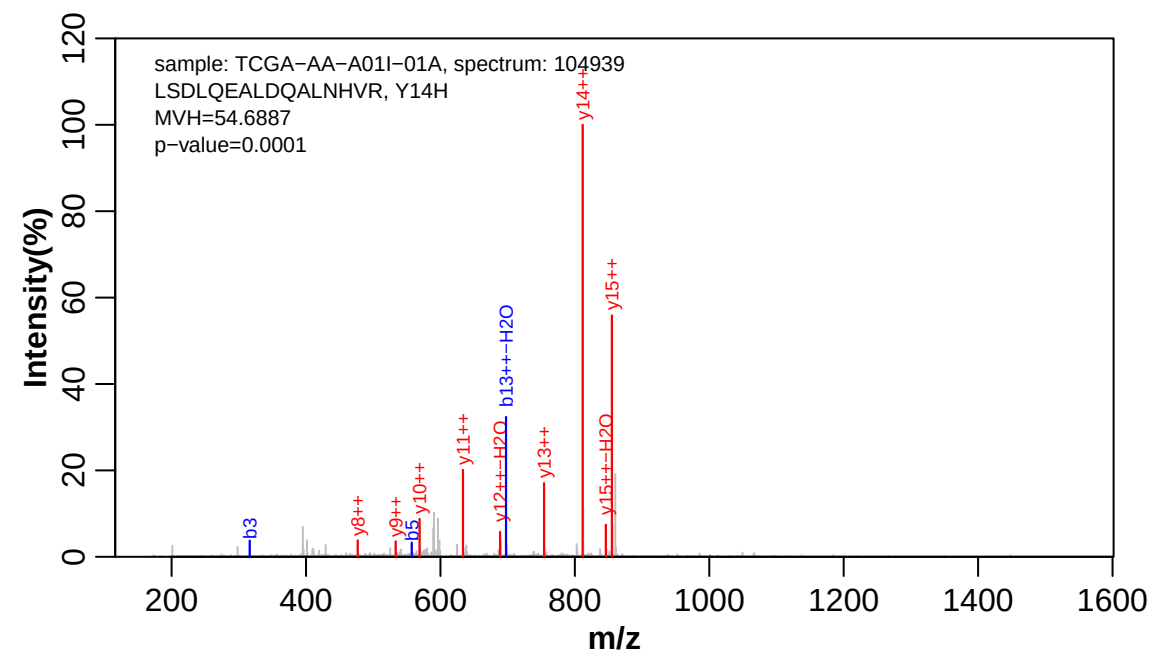

sample: TCGA−AA−A01I−01A, spectrum: 126242
LDSTDFTSTLK, G8S
MVH=49.9366
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

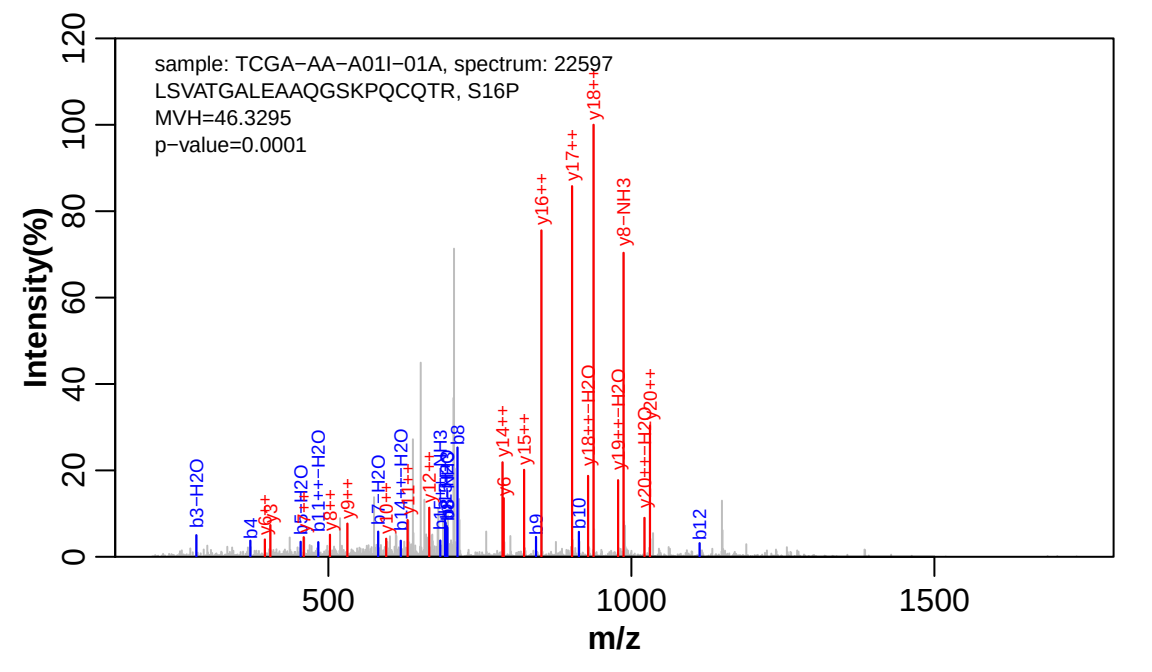

sample: TCGA−AA−A01I−01A, spectrum: 34286
LFEEDPAVGALVLTGGDK, T1I
MVH=84.7385
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y6
y7
b5−H2O
y8−NH3
b7
b10
y14
b11
b12
b13
y12
y5
b4
y4
b3
b9
y15
b14
y16

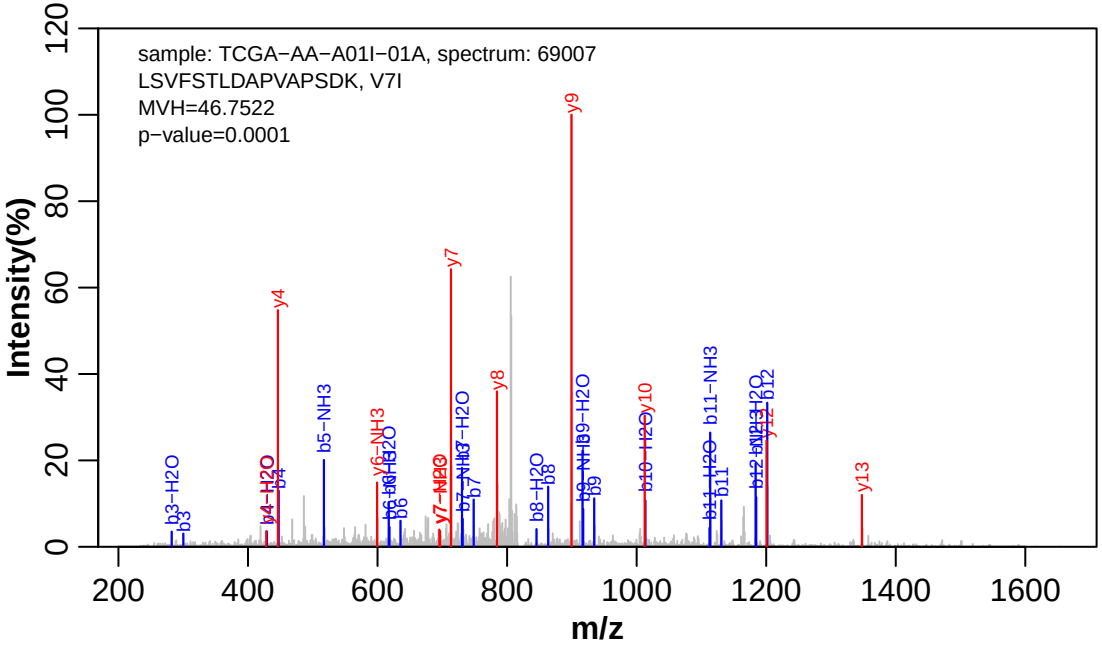

sample: TCGA−AA−A01I−01A, spectrum: 107219
LGGLQPSQDR, G7S
MVH=35.0695
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b3
b4
b5−NH3
b5
y4
y5
y6
b9

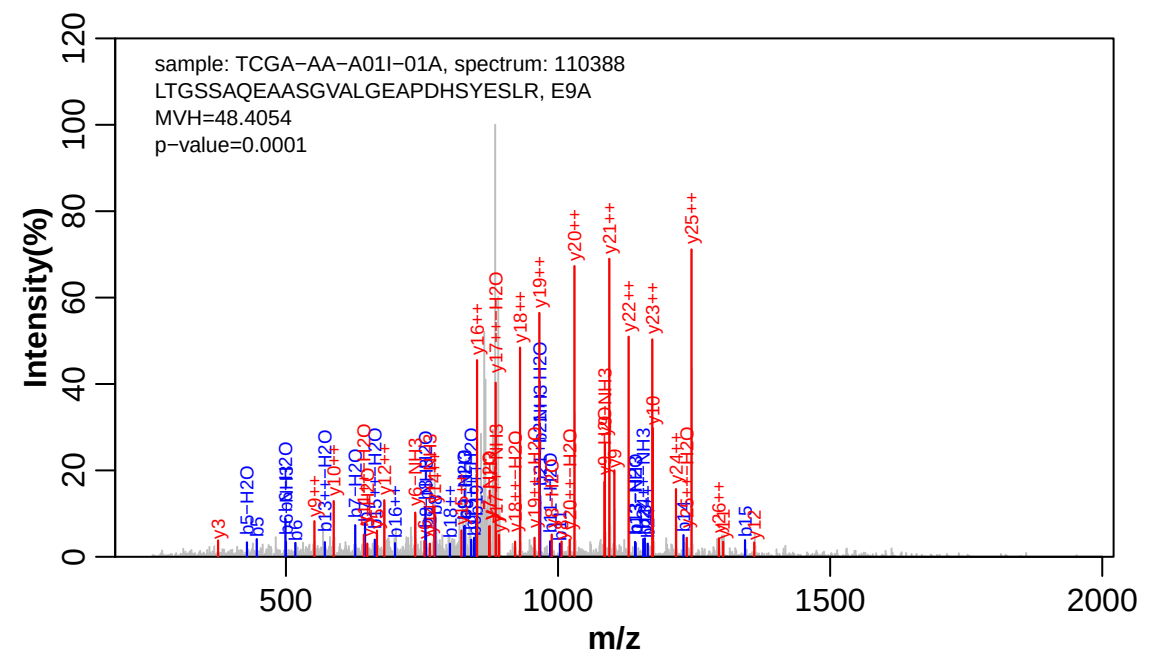

sample: TCGA−AA−A01I−01A, spectrum: 74267
LQELTPSSGDPGEHDPASTHK, P4L
MVH=60.7797
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
y11++
y16+++−H2O
y19+++−H2O
y13++
y14+++
y20+++
y15++
y16++−H2O

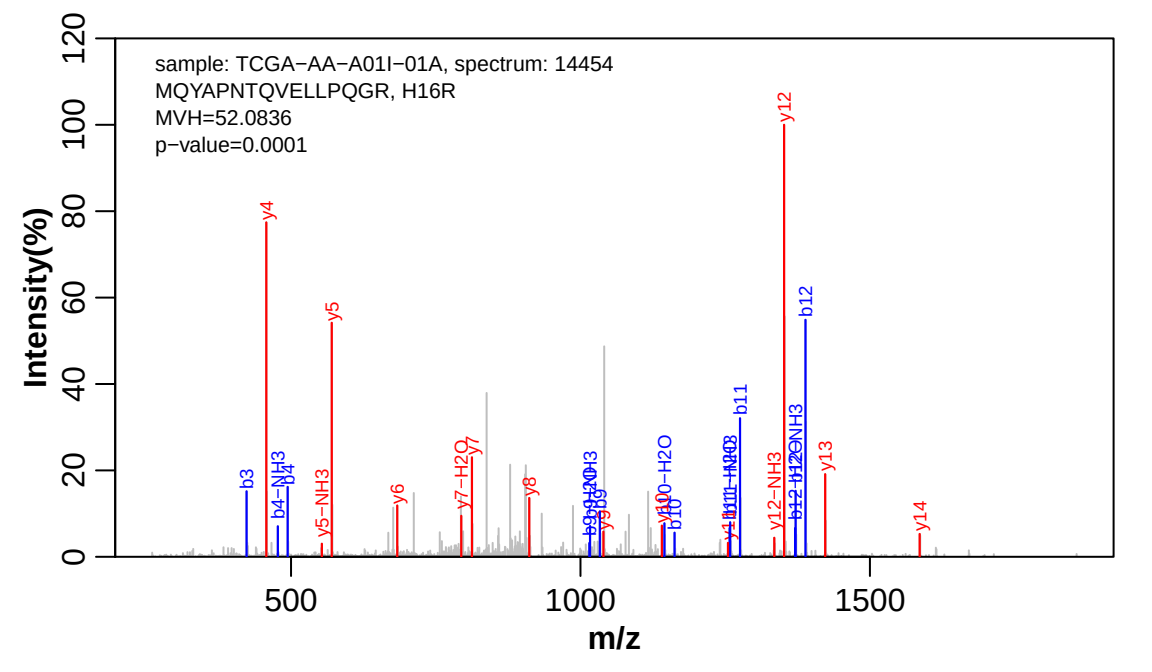

sample: TCGA−AA−A01I−01A, spectrum: 100132
LQQQHSEQPPLQPSPVTTR, M17T
MVH=58.8118
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++
b9++
y11++
b12++
y7
b8
y9−H2O
y10
b12
b7
y8
b12++−H2O

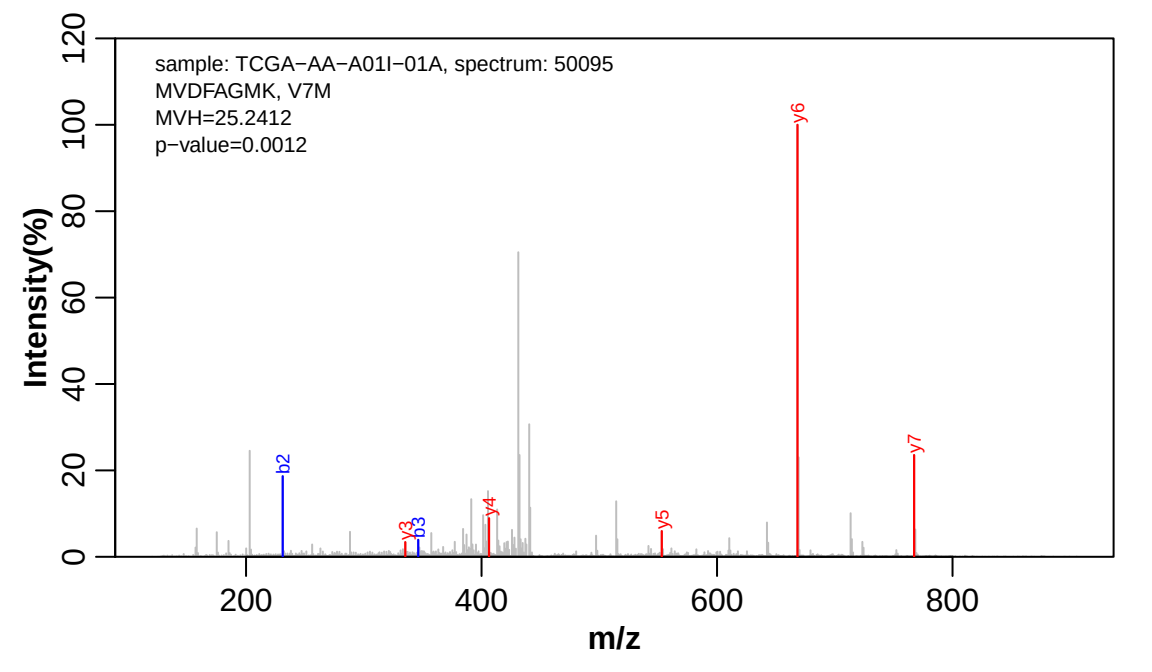

sample: TCGA−AA−A01I−01A, spectrum: 104939
LSDLQEALDQALNHVR, Y14H
MVH=54.6887
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y8++
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++
y15++−H2O
y15++

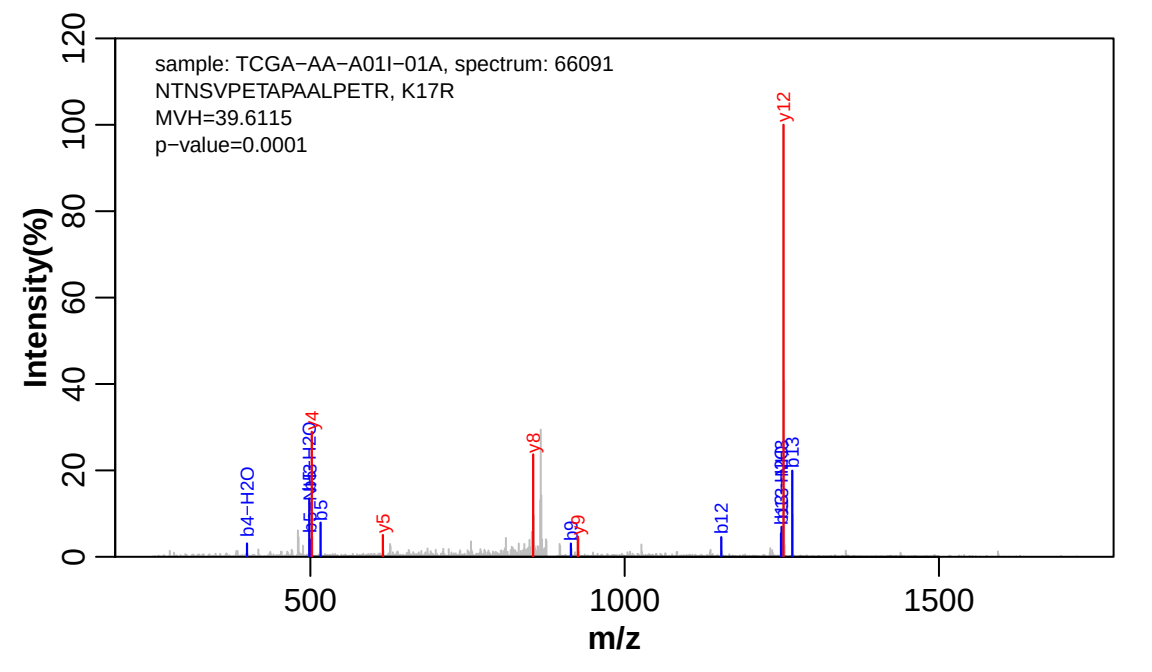

sample: TCGA−AA−A01I−01A, spectrum: 22597
LSVATGALEAAQGSKPQCQTR, S16P
MVH=46.3295
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4
y3++
b5−H2O
b11++−H2O
y8++
y9++
b7−H2O
y10++
b14++−H2O
y11++−H2O
y12++
b8
y6
y14++
y15++
b9
b10
y16++
y17++
y18++
y18++−H2O
y19++−H2O
y8−NH3
y20++
y20++−H2O
b12

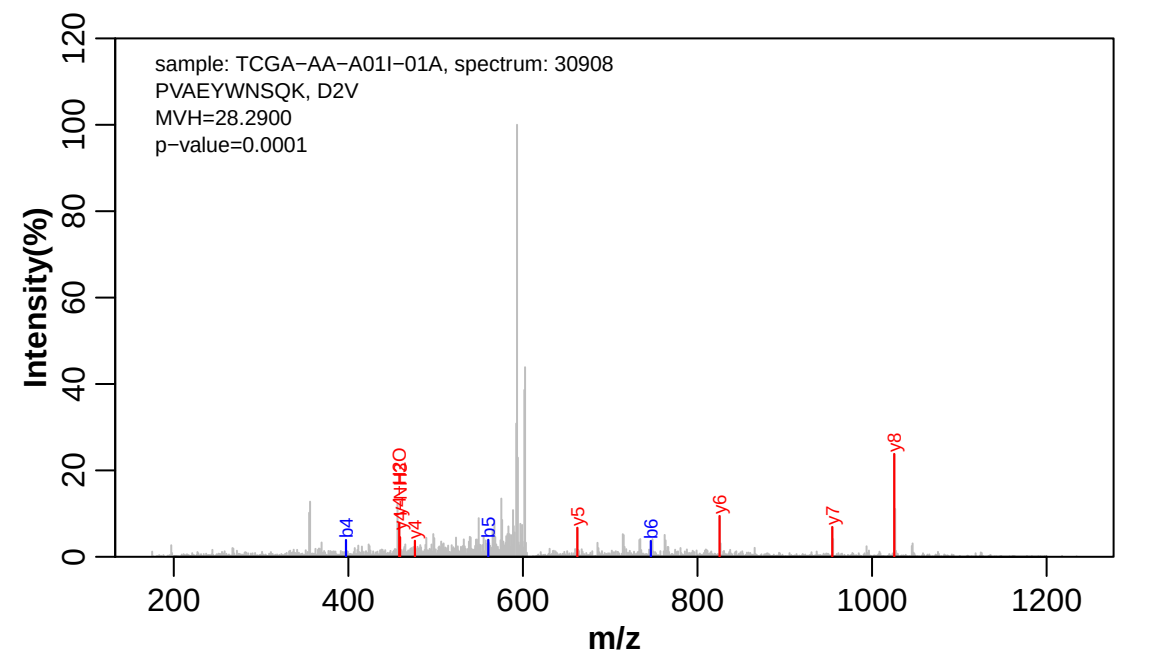

sample: TCGA−AA−A01I−01A, spectrum: 69007
LSVFSTLDAPVAPSDK, V7I
MVH=46.7522
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
y10
y13
b5−NH3
b3−H2O
b8−H2O
b11−NH3
b11−H2O

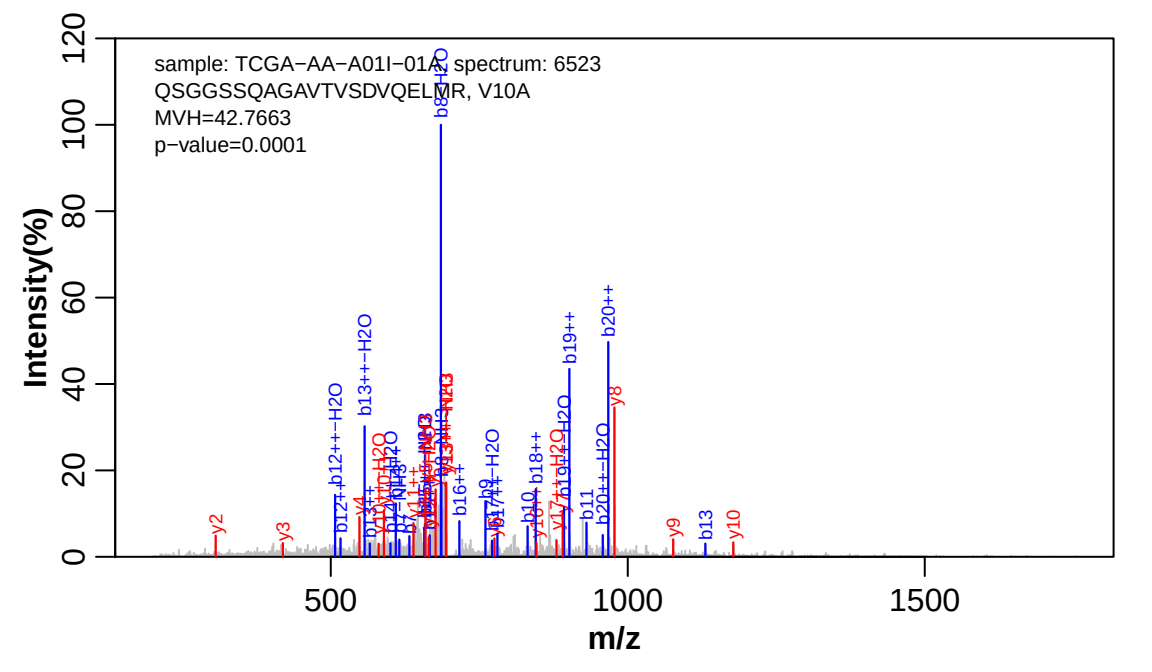

sample: TCGA−AA−A01I−01A, spectrum: 110388
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=48.4054
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y3
b5−H2O
b5
b6
b8
y9++
b23++
y10++
y12++
b16++
y16++
y17++−H2O
y18++
y19++
y20++
y21++
y22++
y23++
y25++
y26++
y15
y12

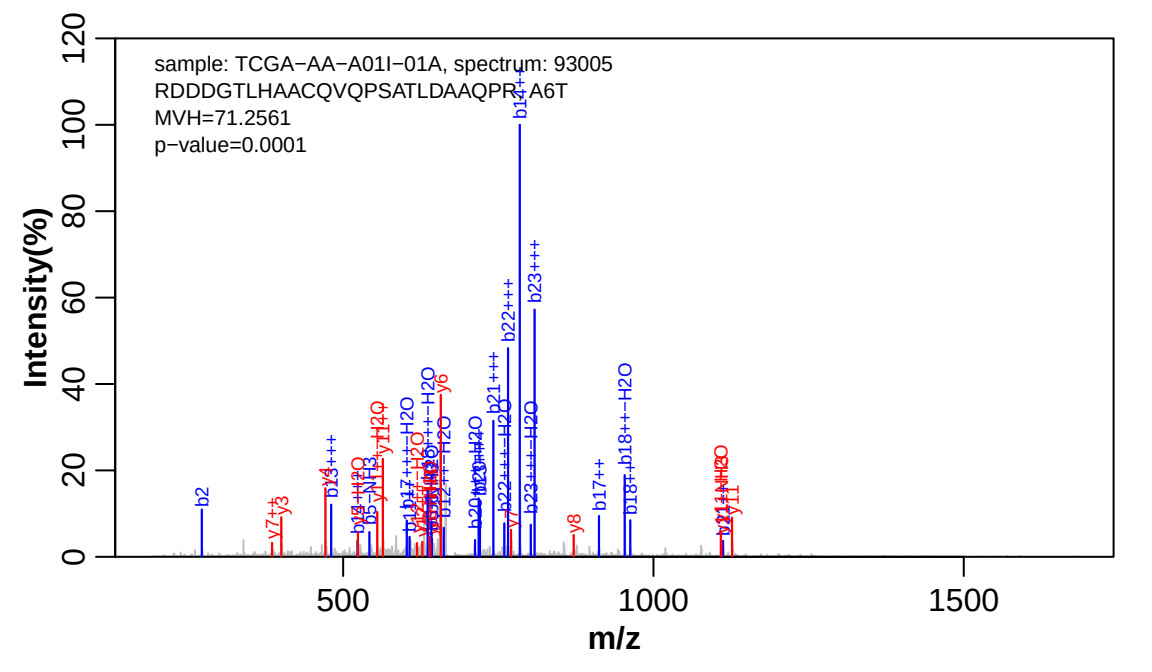

sample: TCGA−AA−A01I−01A, spectrum: 14454
MQYAPNTQVELLPQGR, H16R
MVH=52.0836
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4−NH3
b4
y5
y5−NH3
y6
y7
y7−H2O
y8
b9
b9−H2O
b9−NH3
y9
y10
y10−H2O
b10
b11
b11−H2O
b11−NH3
y12
y12−NH3
b12
b12−H2O
b12−NH3
y13
y14

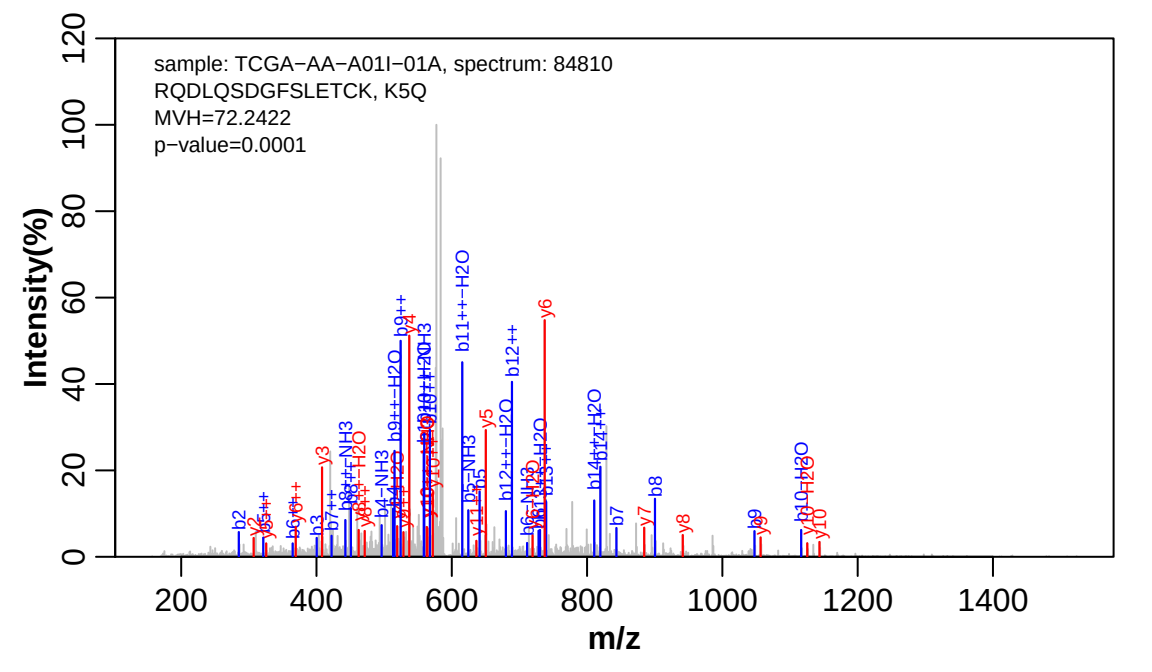

sample: TCGA−AA−A01I−01A, spectrum: 50095
MVDFAGMK, V7M
MVH=25.2412
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y3
b3
y4
y5
y6
y7

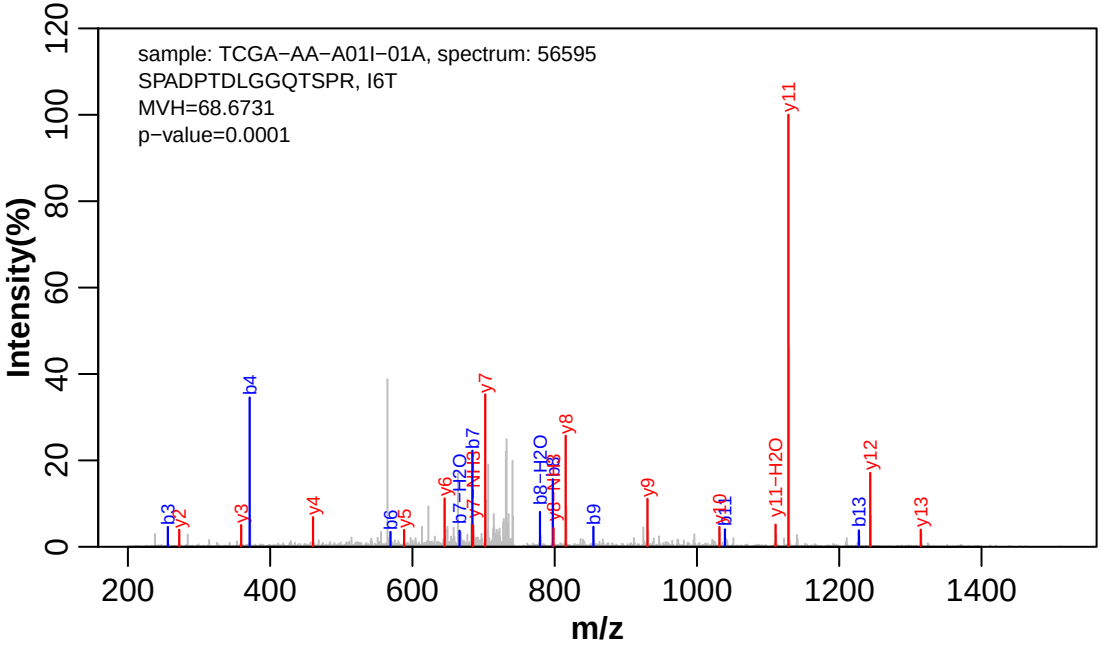

sample: TCGA−AA−A01I−01A, spectrum: 66091
NTNSVPETAPAALPETR, K17R
MVH=39.6115
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y9
b12
b13
b4−H2O
b5

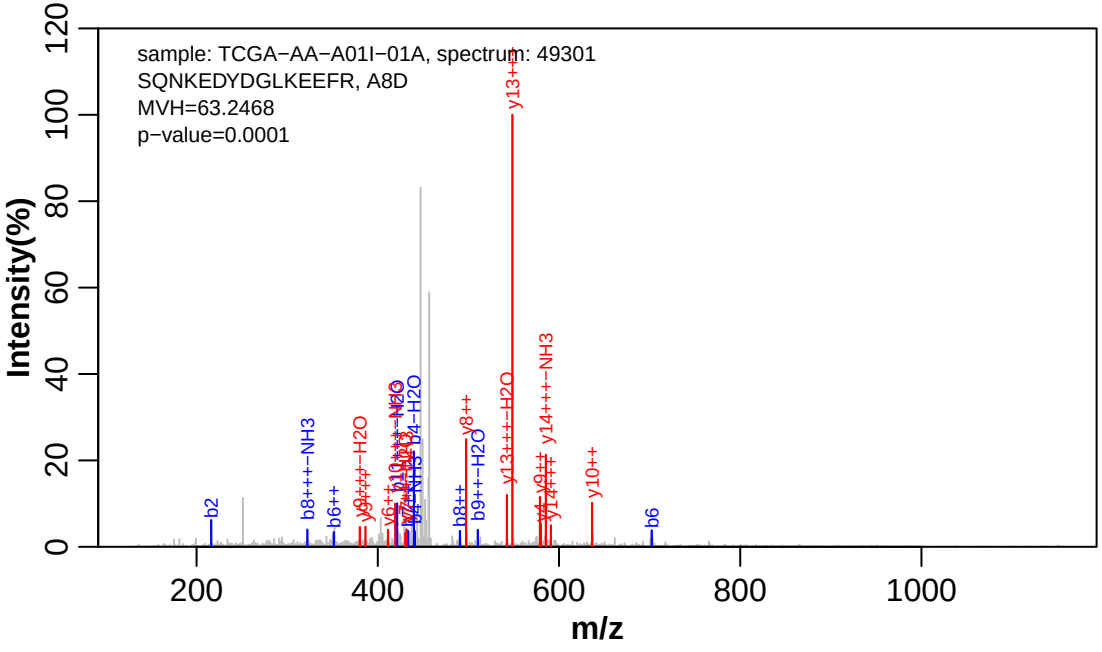

sample: TCGA−AA−A01I−01A, spectrum: 30908
PVAEYWNSQK, D2V
MVH=28.2900
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b4
y4-NH3
y4-H2O
y4
b5
y5
b6
y6
y7
y8

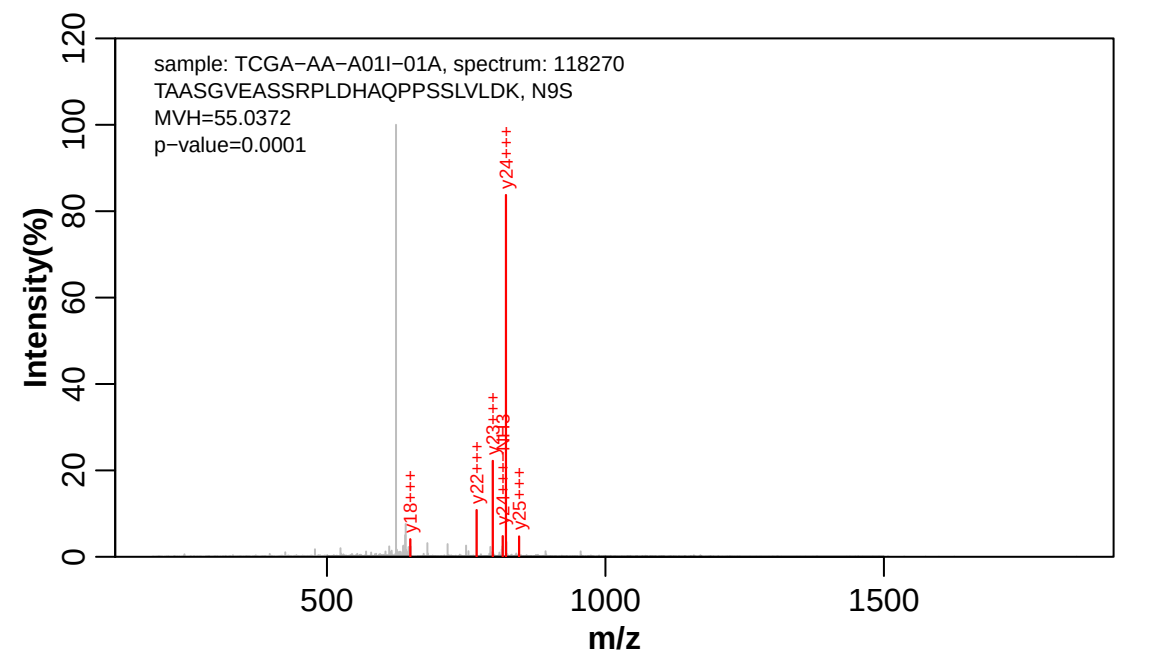

sample: TCGA−AA−A01I−01A, spectrum: 6523
QSGGSSQAGAVTVSDVQELMR, V10A
MVH=42.7663
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b8−H2O
b13++−H2O
b12++−H2O
b20++
b19++
y8
y2
y3
y4
b16++
b18++
b11
b20++−H2O
y9
b13
y10

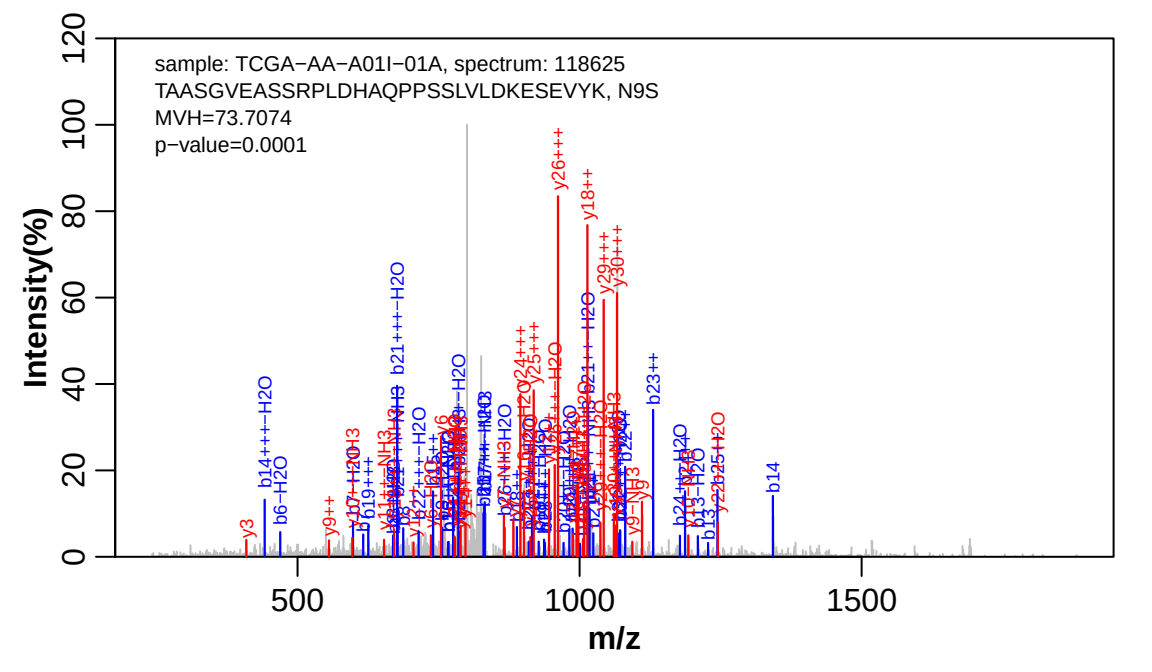

sample: TCGA−AA−A01I−01A, spectrum: 93005
RDDDGTLHAACQVQPSATLDAAQPRA6T
MVH=71.2561
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3+++
b4+++
y4+++
b5−NH3
y4++
b6+++−H2O
y5+++−H2O
b7+++−H2O
y6
b8++−H2O
b9++−H2O
b10++−H2O
b11++−H2O
b12++−H2O
b20++−H2O
b21+++
b22+++
b22++−H2O
b23+++
b23+++−H2O
b14++
b17++
b18++−H2O
y8
y11

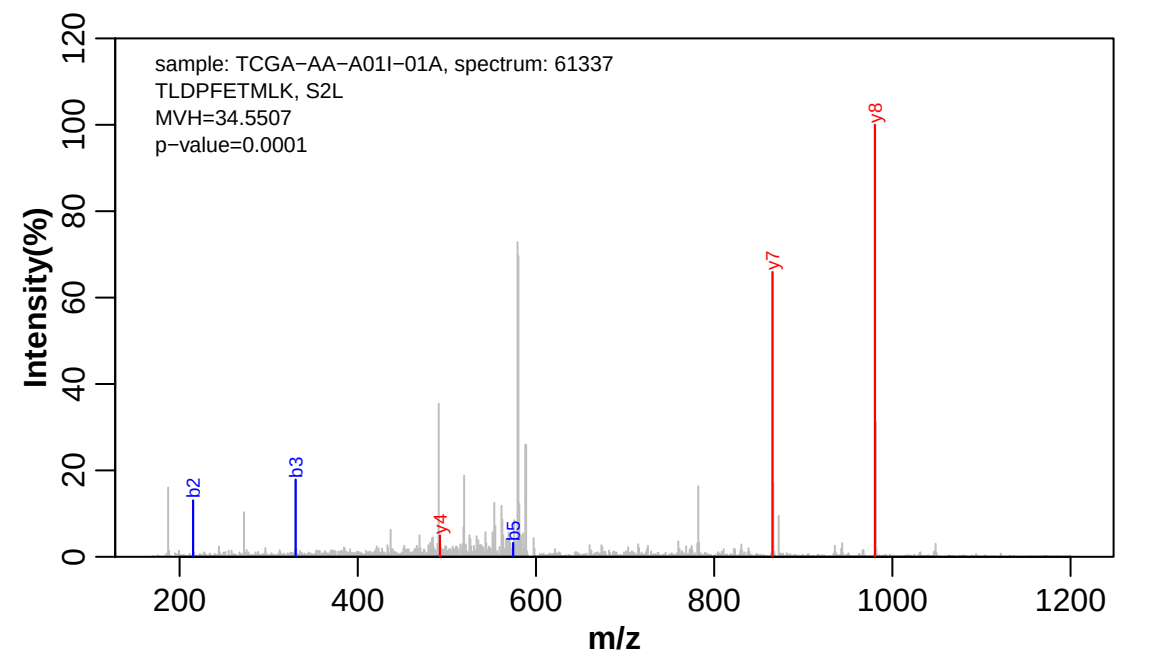

sample: TCGA−AA−A01I−01A, spectrum: 84810
RQDLQSDGFSLETCK, K5Q
MVH=72.2422
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

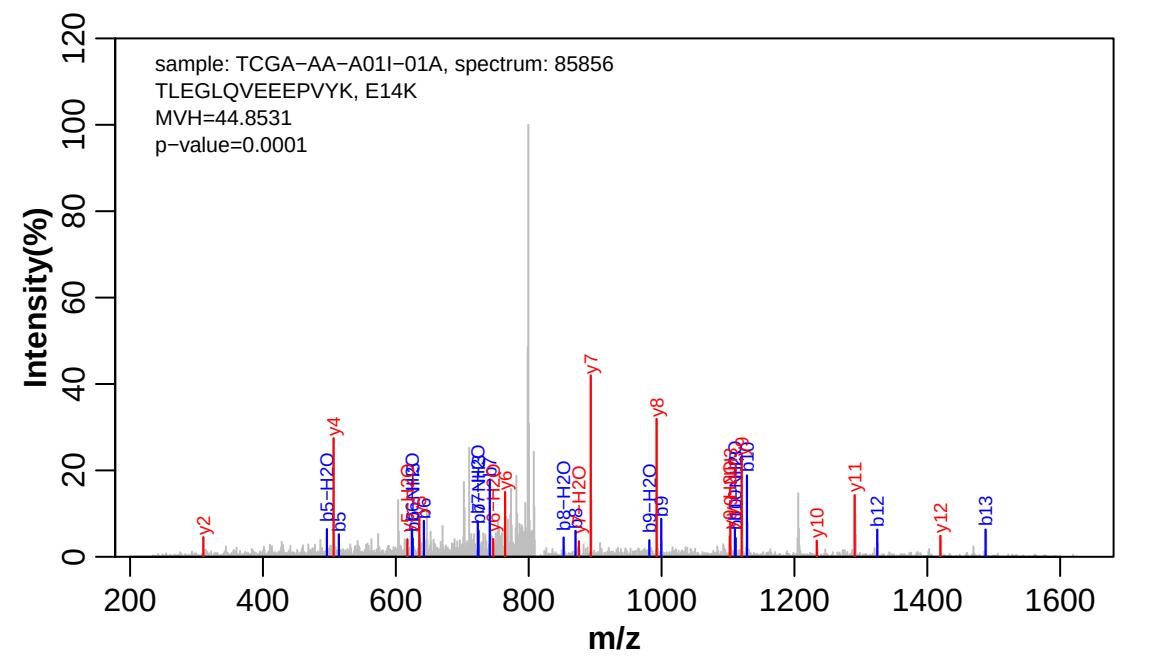

sample: TCGA−AA−A01I−01A, spectrum: 56595
SPADPTDLGGQTSPR, I6T
MVH=68.6731
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
b7−H2O
y7−NH3
b7
y7
b8−H2O
y8−NH3
y8
b9
y9
b10
b11
y11−H2O
y11
b13
y12
y13

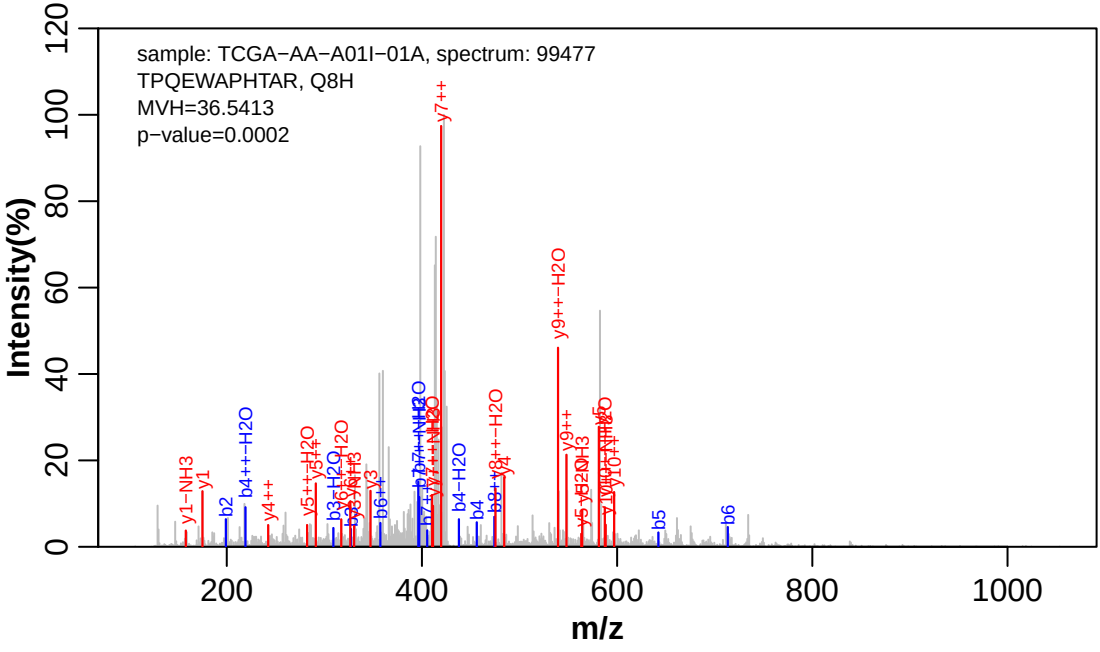

sample: TCGA−AA−A01I−01A, spectrum: 49301
SQNKEDYDGLKEEFR, A8D
MVH=63.2468
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b8+++−NH3
b6++
y8+++−H2O
y13++
y13+++−H2O
y14+++−NH3
y10++
b8++
b9++−H2O
b6

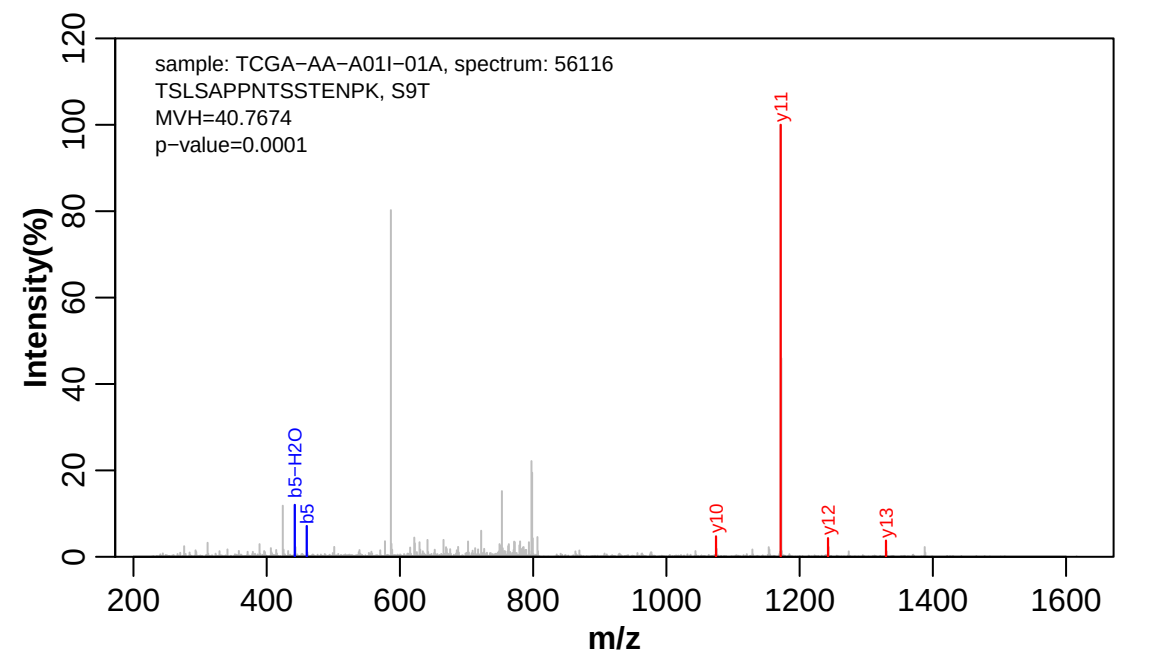

sample: TCGA−AA−A01I−01A, spectrum: 118270
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=55.0372
p−value=0.0001
y24+++
y22+++
y18+++
y25+++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

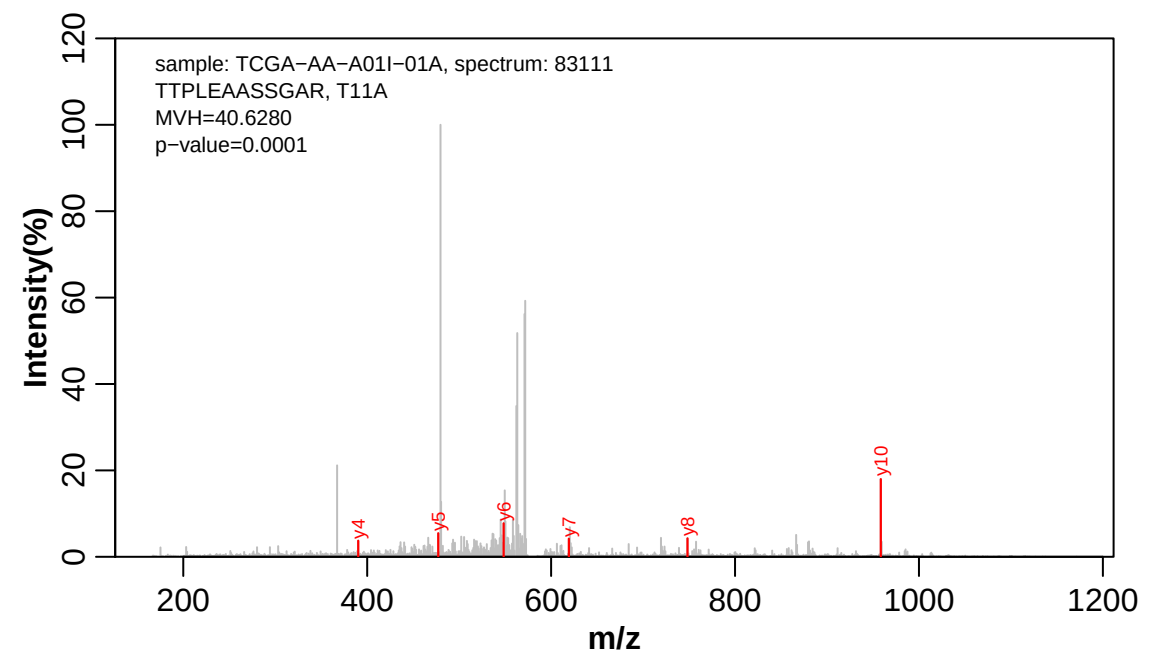

sample: TCGA−AA−A01I−01A, spectrum: 118625
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=73.7074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y26+++
y18++
y29+++
y30+++
b21+++−H2O
b14+++−H2O
b6−H2O
y3
y9++
b19+++
b23++
b14
y25+++
b24++−H2O
b13−H2O
y2625+H2O

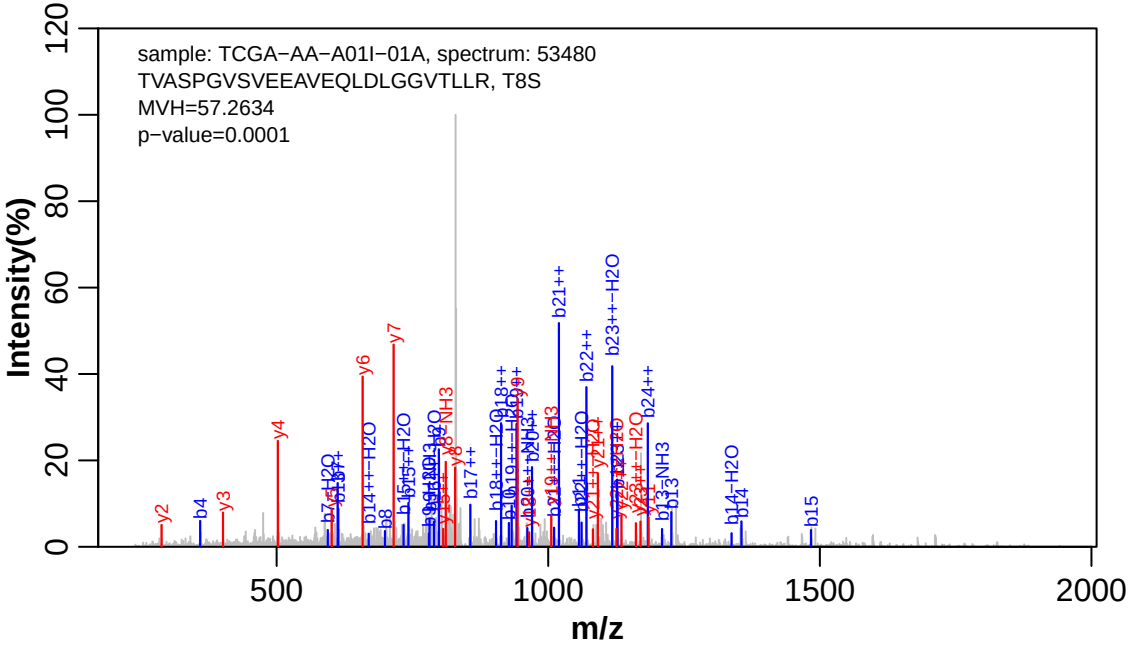

sample: TCGA−AA−A01I−01A, spectrum: 61337
TLDPFETMLK, S2L
MVH=34.5507
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3
y4
b5
y7
y8

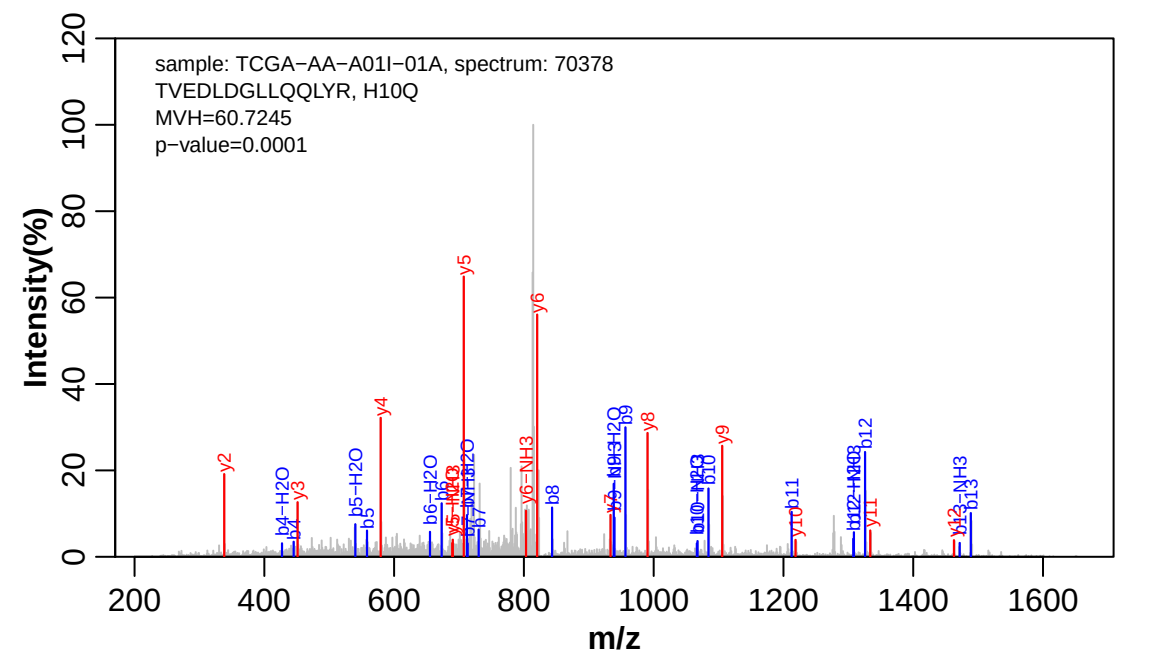

sample: TCGA−AA−A01I−01A, spectrum: 85856
TLEGLQVEEEPVYK, E14K
MVH=44.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5−H2O
b5
y4
y6−H2O
y6
y7
b8−H2O
y8−H2O
y8
b9−H2O
b9
y8
b10
y10
y11
b12
y12
b13

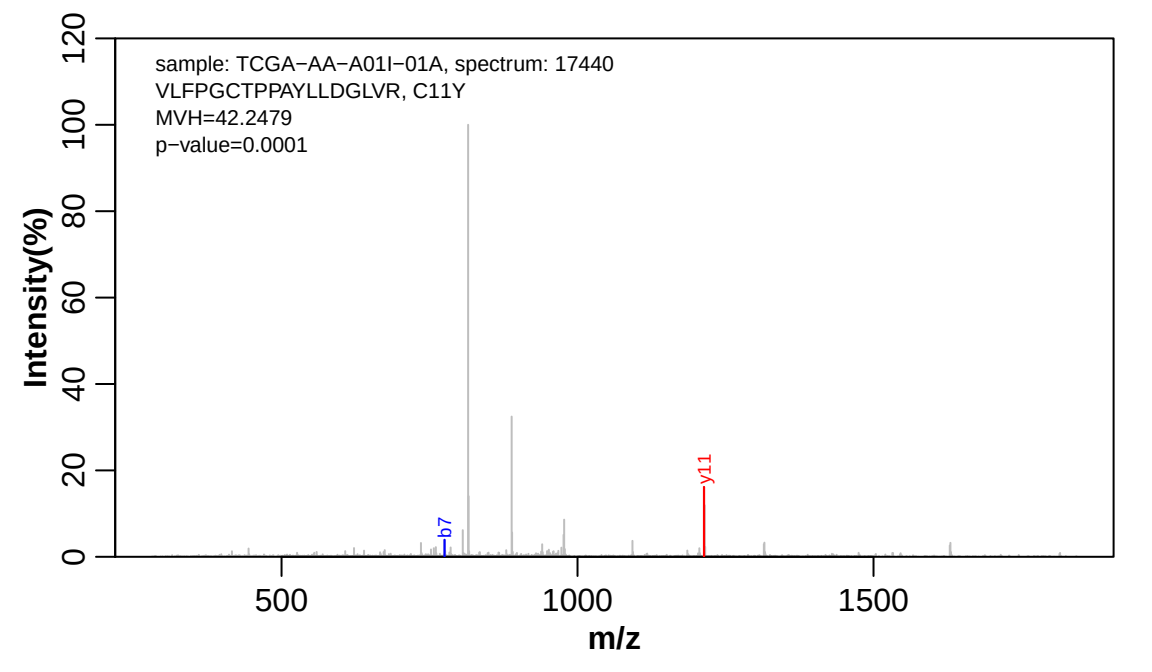

sample: TCGA−AA−A01I−01A, spectrum: 99477
TPQEWAPHTAR, Q8H
MVH=36.5413
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y7++
y9++−H2O
y9++
b4−H2O
b4
b5
b6
y1−NH3
y1
b2
b4++−H2O
y4++
b6++
y3

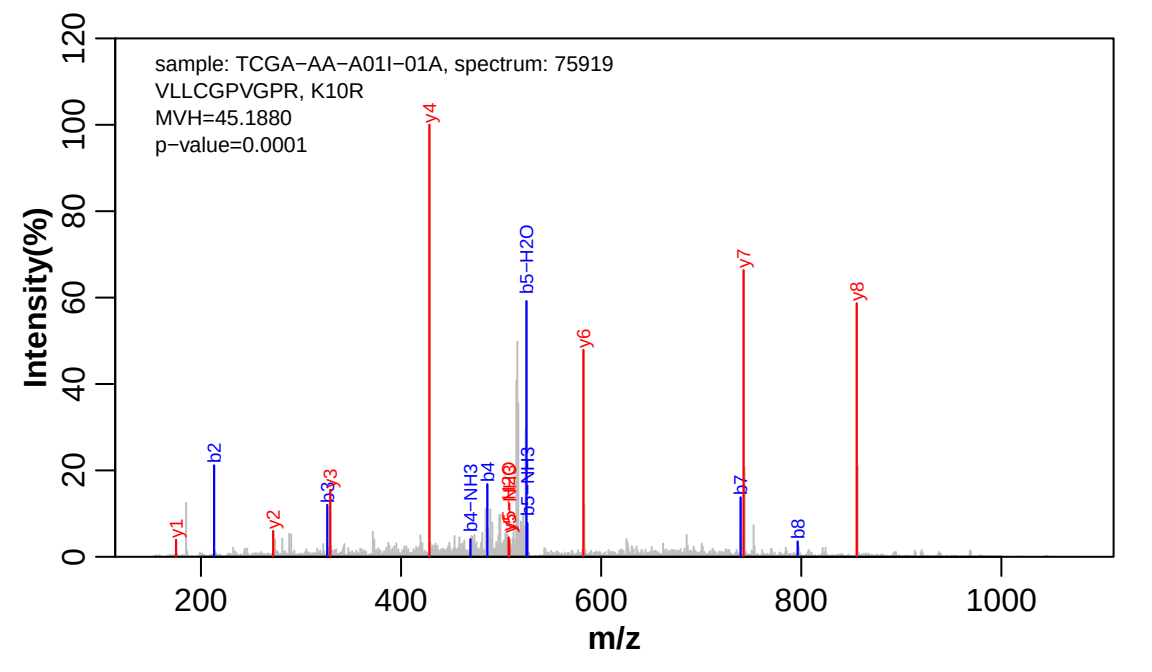

sample: TCGA−AA−A01I−01A, spectrum: 56116
TSLSAPPNTSSTENPK, S9T
MVH=40.7674
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
b5−H2O
b5
y10
y11
y12
y13

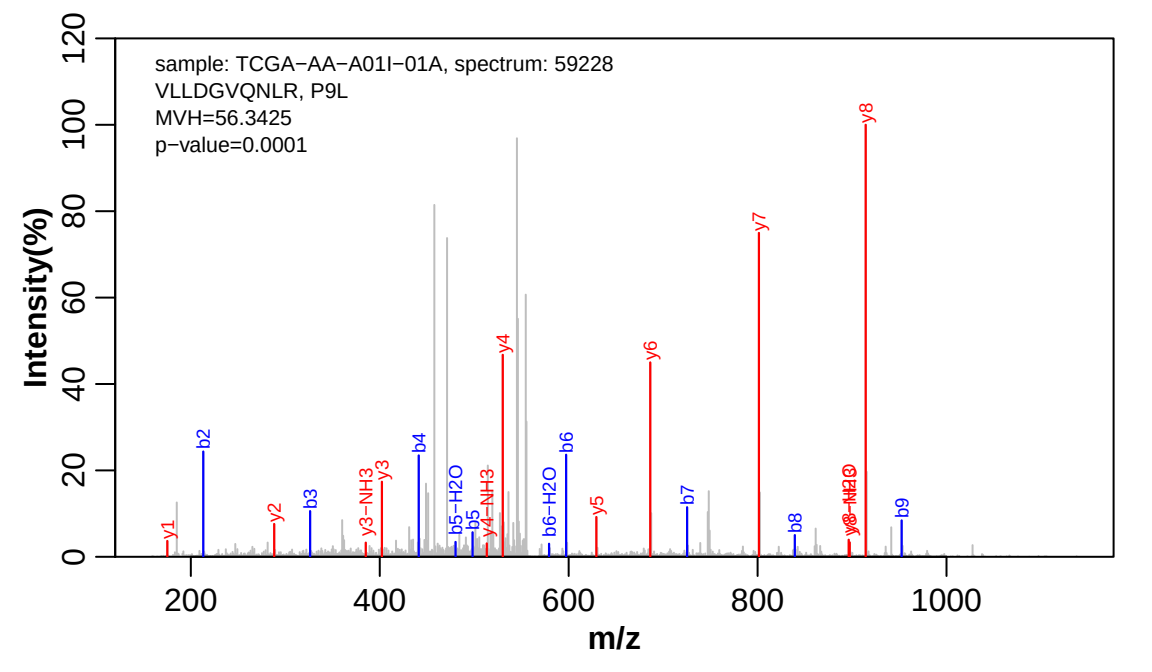

sample: TCGA−AA−A01I−01A, spectrum: 83111
TTPLEAASSGAR, T11A
MVH=40.6280
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y4
y5
y6
y7
y8
y10

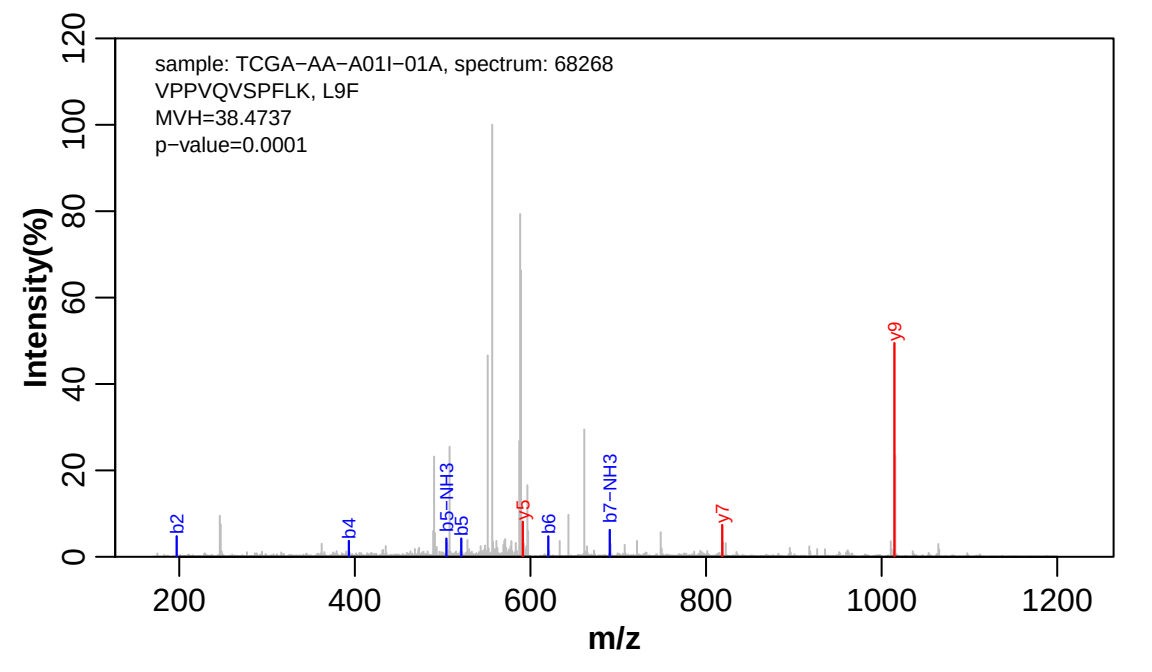

sample: TCGA−AA−A01I−01A, spectrum: 53480
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=57.2634
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
y3
y4
b7++
b8
y6
b14++−H2O
y7
b15++−H2O
b17++
b18++−H2O
b19++−NH3
b21++
b22++
b23++−H2O
b24++
b13−NH3
b14−H2O
b15

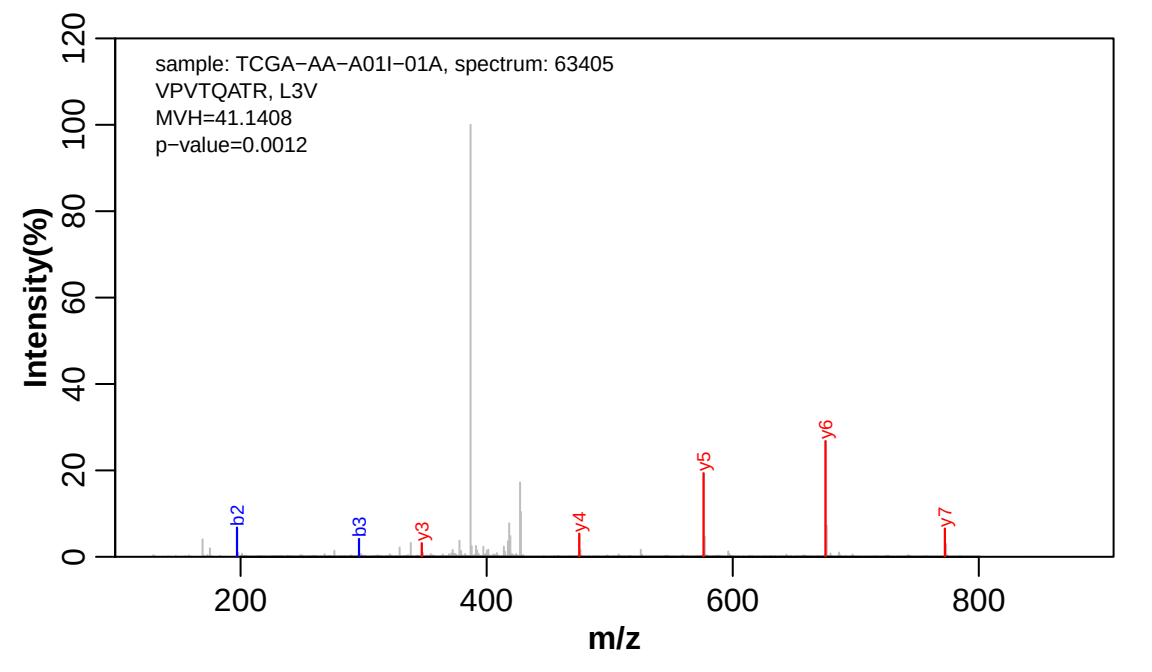

sample: TCGA−AA−A01I−01A, spectrum: 70378
TVEDLDGLLQQLYR, H10Q
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b4−H2O
b4
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y5−NH3
b7
y6
y6−NH3
b8
y7
y7−H2O
b9
y8
y9
b10
b10−NH3
y10
b11
b12
b12−H2O
b12−NH3
y11
y12
b13
b13−NH3

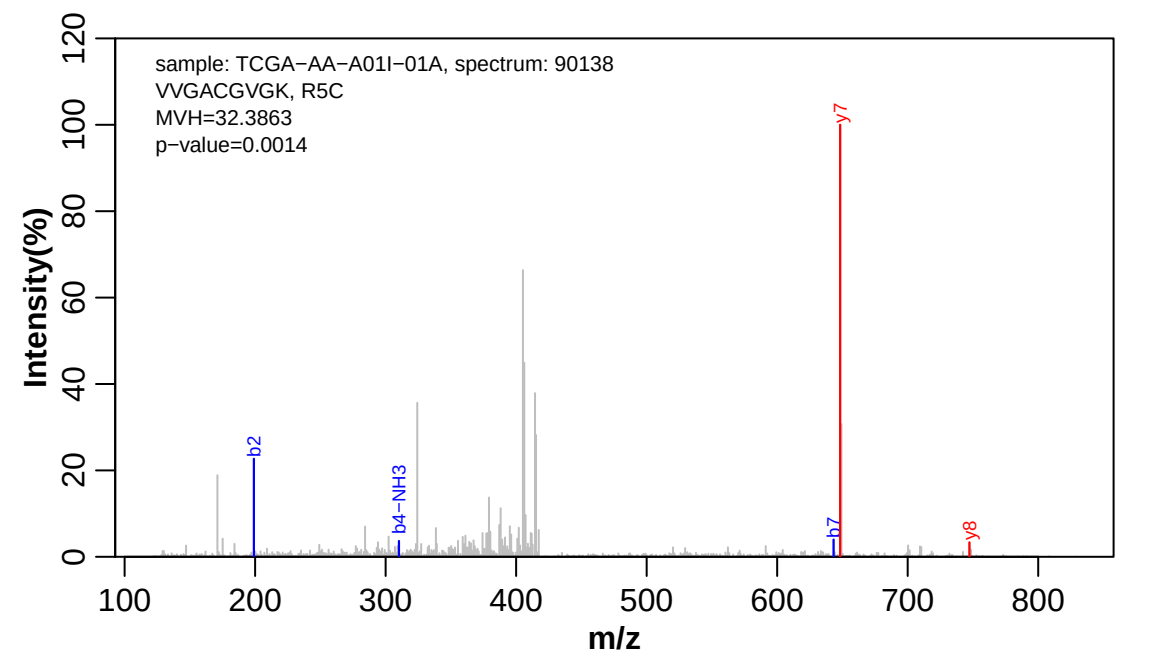

sample: TCGA−AA−A01I−01A, spectrum: 17440
VLFPGCTPPAYLLDGLVR, C11Y
MVH=42.2479
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
y11

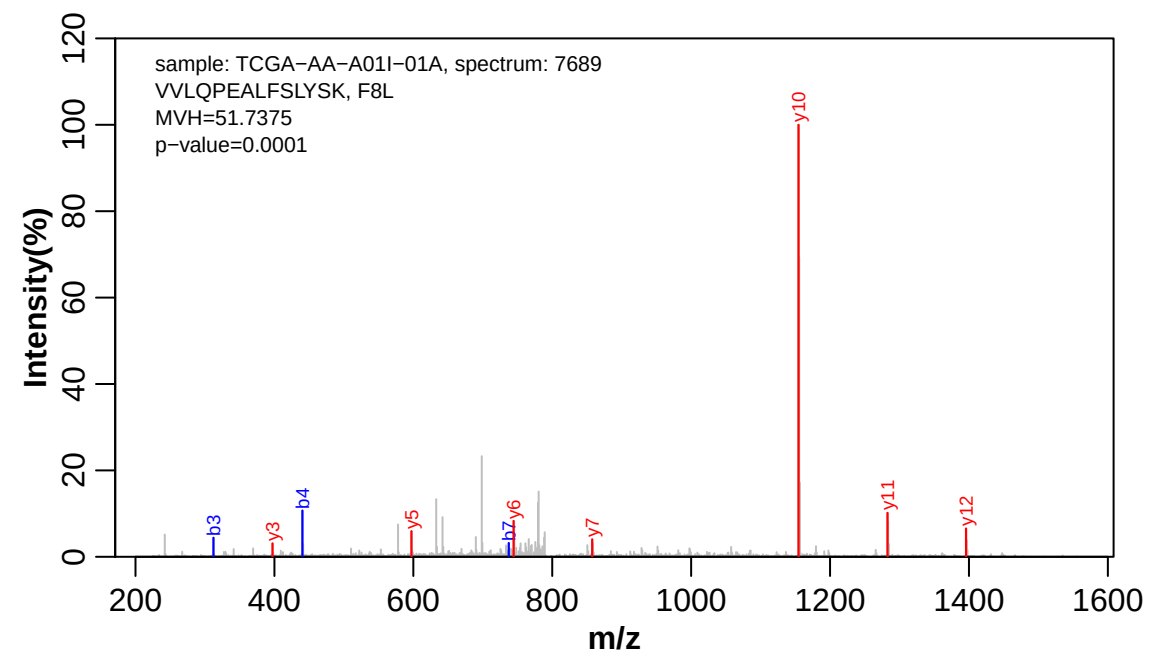

sample: TCGA−AA−A01I−01A, spectrum: 75919
VLLCGPVGPR, K10R
MVH=45.1880
p−value=0.0001
Intensity(%)
m/z
y4
b5−H2O
y7
y8
y6
b2
y3
b3
b4
b4−NH3
b5−NH3
y5−NH3
y5
b7
b8
y2
y1
0
20
40
60
80
100
120
200
400
600
800
1000

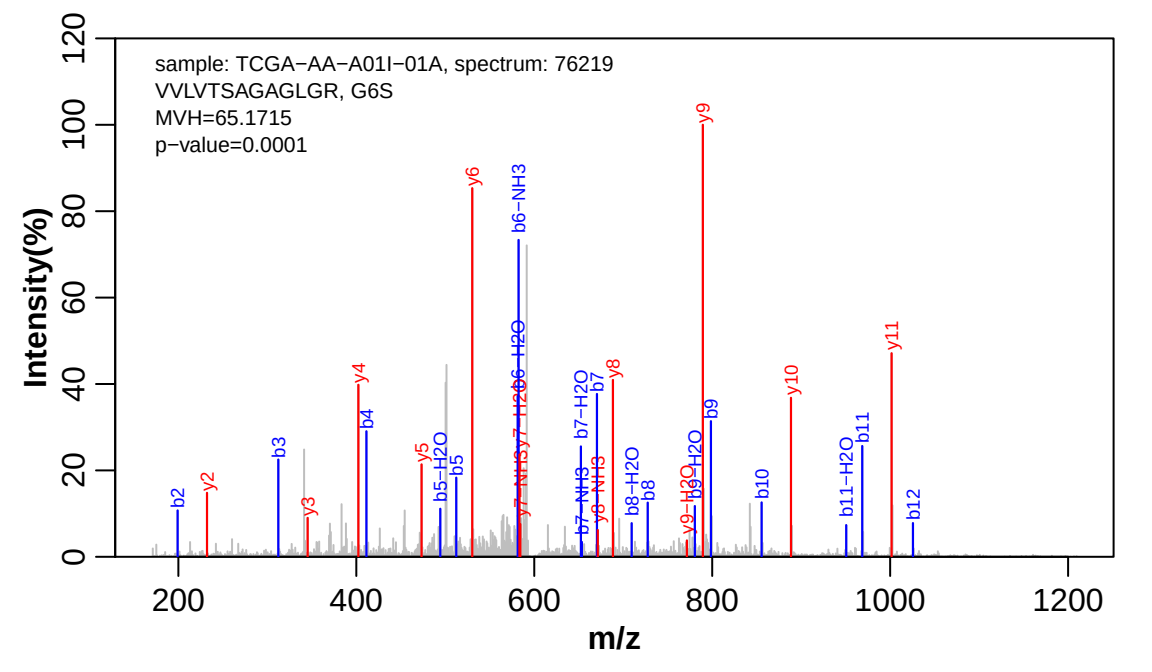

sample: TCGA−AA−A01I−01A, spectrum: 59228
VLLDGVQNLR, P9L
MVH=56.3425
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3−NH3
y3
b4
b5−H2O
b5
y4−NH3
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9

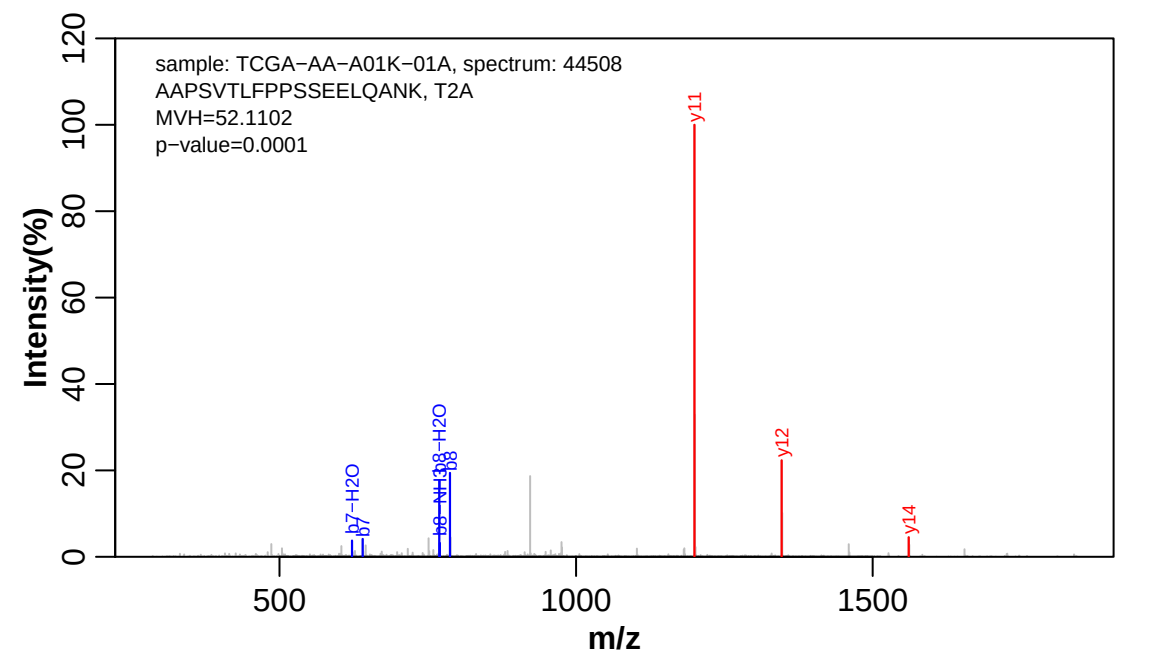

sample: TCGA−AA−A01I−01A, spectrum: 68268
VPPVQVSPFLK, L9F
MVH=38.4737
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4
b5−NH3
b5
y5
b6
b7−NH3
y7
y9

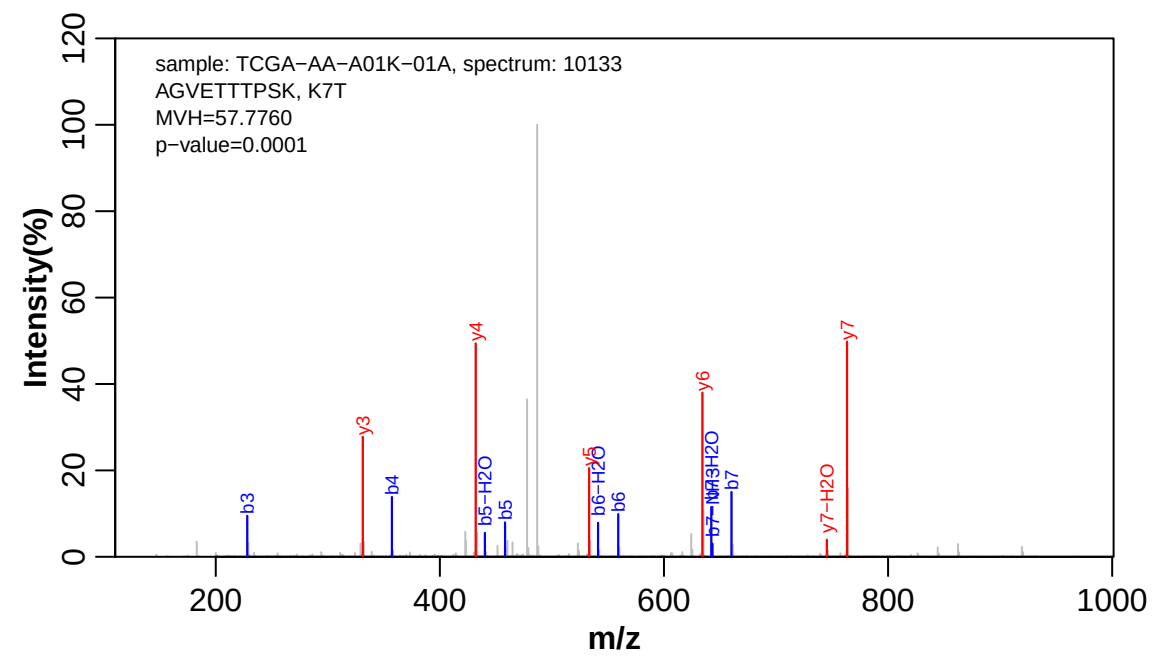

sample: TCGA−AA−A01I−01A, spectrum: 63405
VPVTQATR, L3V
MVH=41.1408
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

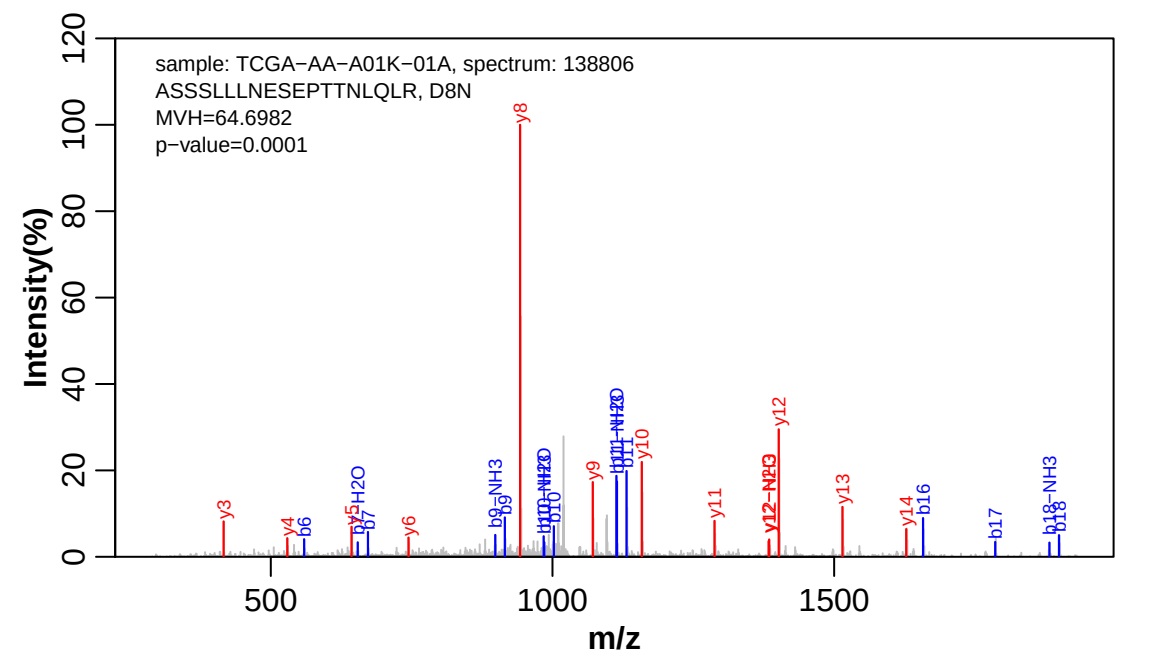

sample: TCGA−AA−A01I−01A, spectrum: 90138
VVGACGVGK, R5C
MVH=32.3863
p−value=0.0014
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b4−NH3
y7
b7
y8

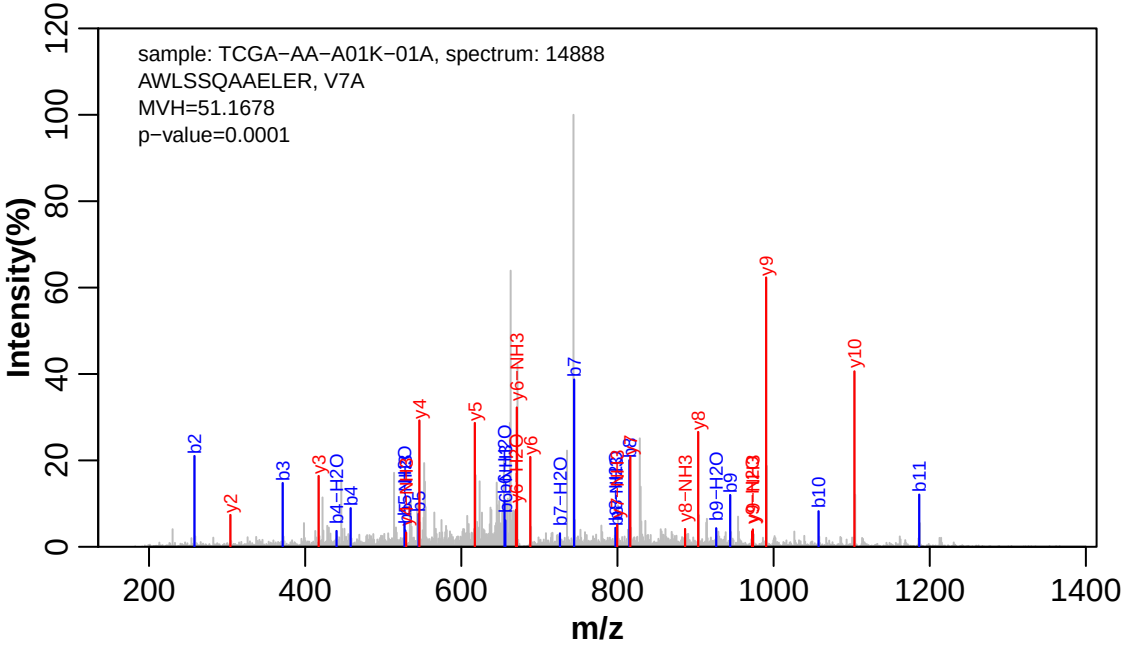

sample: TCGA−AA−A01I−01A, spectrum: 7689
VVLQPEALFSLYSK, F8L
MVH=51.7375
p−value=0.0001
Intensity(%)
m/z
b3
y3
b4
y5
b7
y6
y7
y10
y11
y12

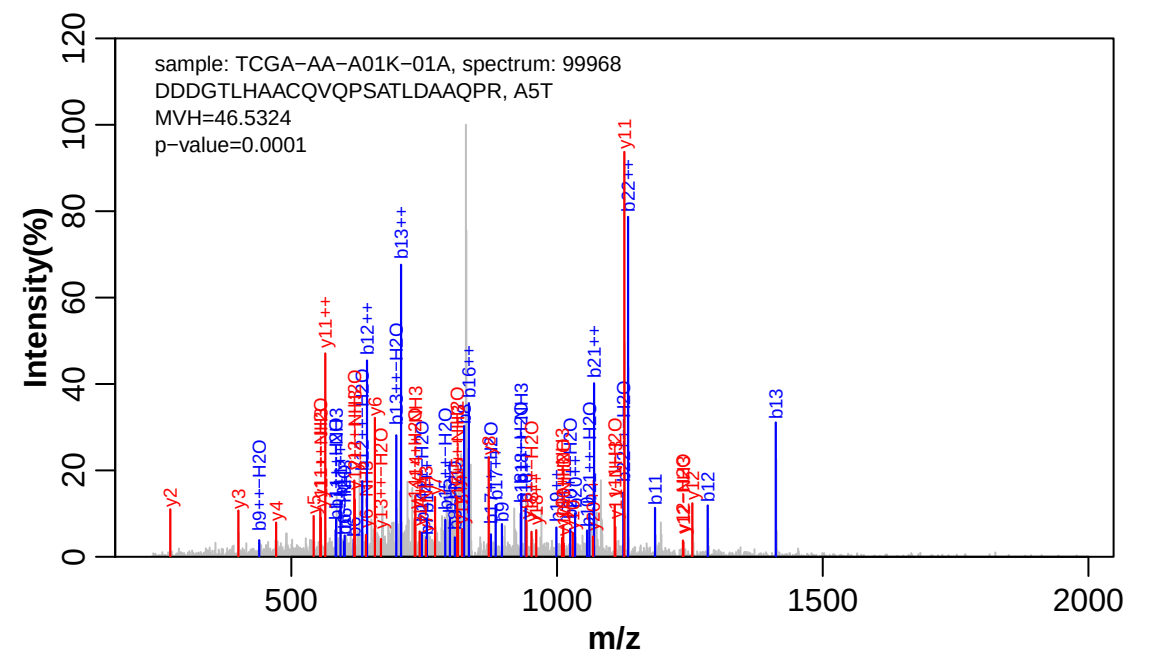

sample: TCGA−AA−A01I−01A, spectrum: 76219
VVLVTSAGAGLGR, G6S
MVH=65.1715
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
y4
b4
y5
b5−H2O
b5
y6
b6−NH3
y7−NH3
y7−H2O
b6−H2O
b7−H2O
b7
b7−NH3
y8−NH3
y8
b8−H2O
b8
y9−H2O
b9−H2O
y9
b9
b10
y10
b11−H2O
b11
y11
b12

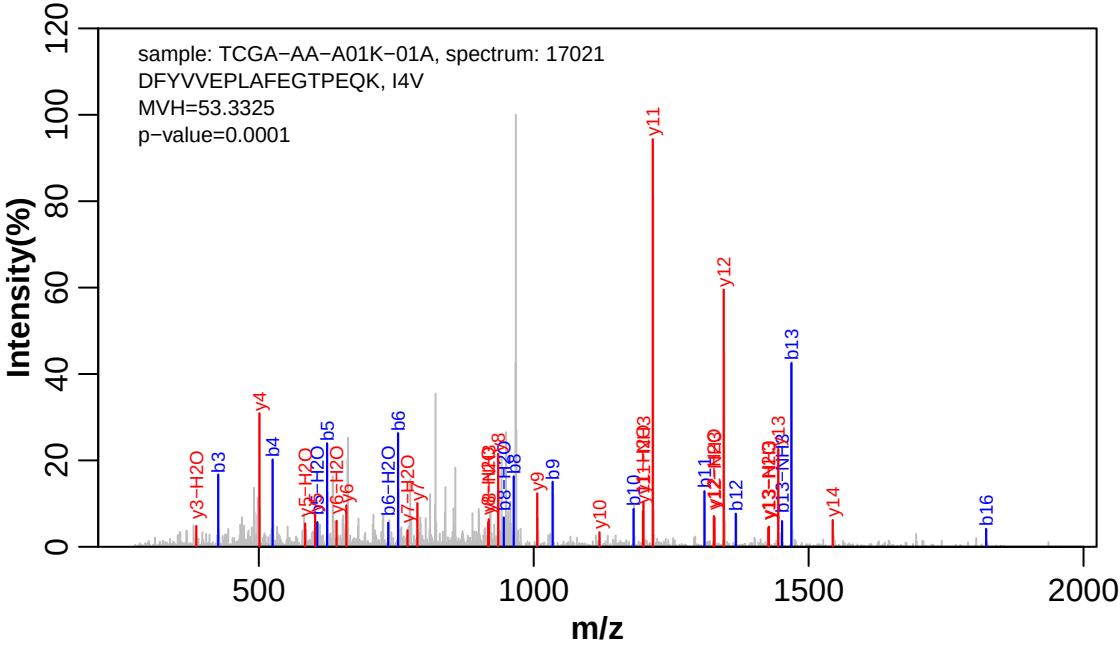

sample: TCGA−AA−A01K−01A, spectrum: 44508
AAPSVTLFPPSSEELQANK, T2A
MVH=52.1102
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

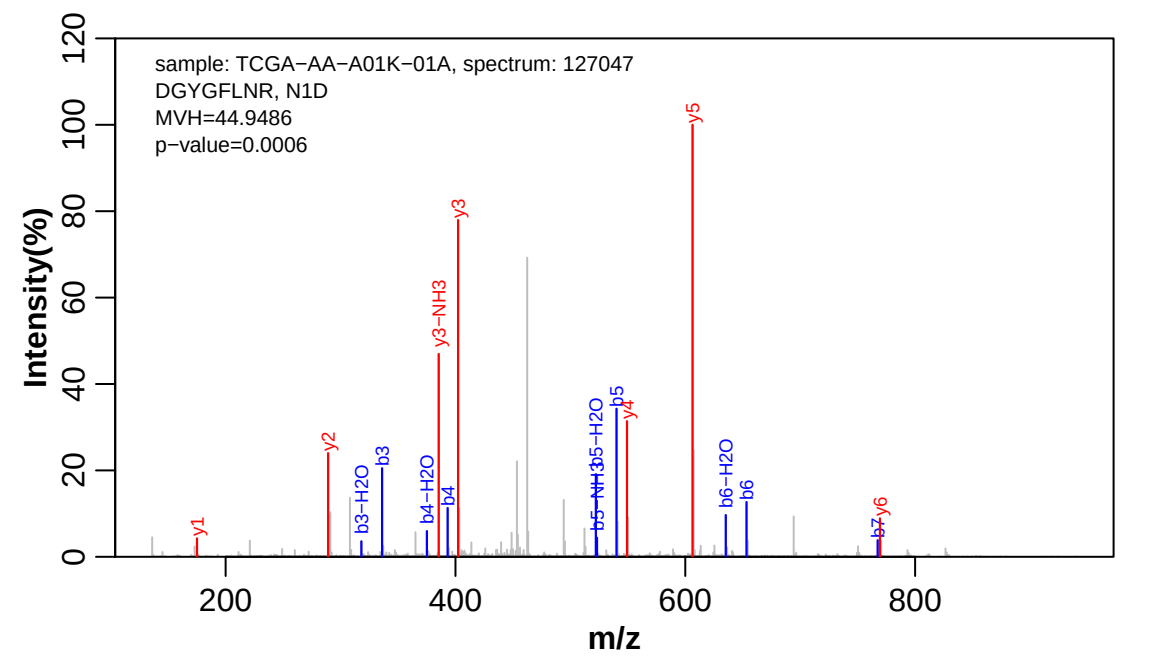

sample: TCGA−AA−A01K−01A, spectrum: 10133
AGVETTTPSK, K7T
MVH=57.7760
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3H2O
b7
y7−H2O
y7

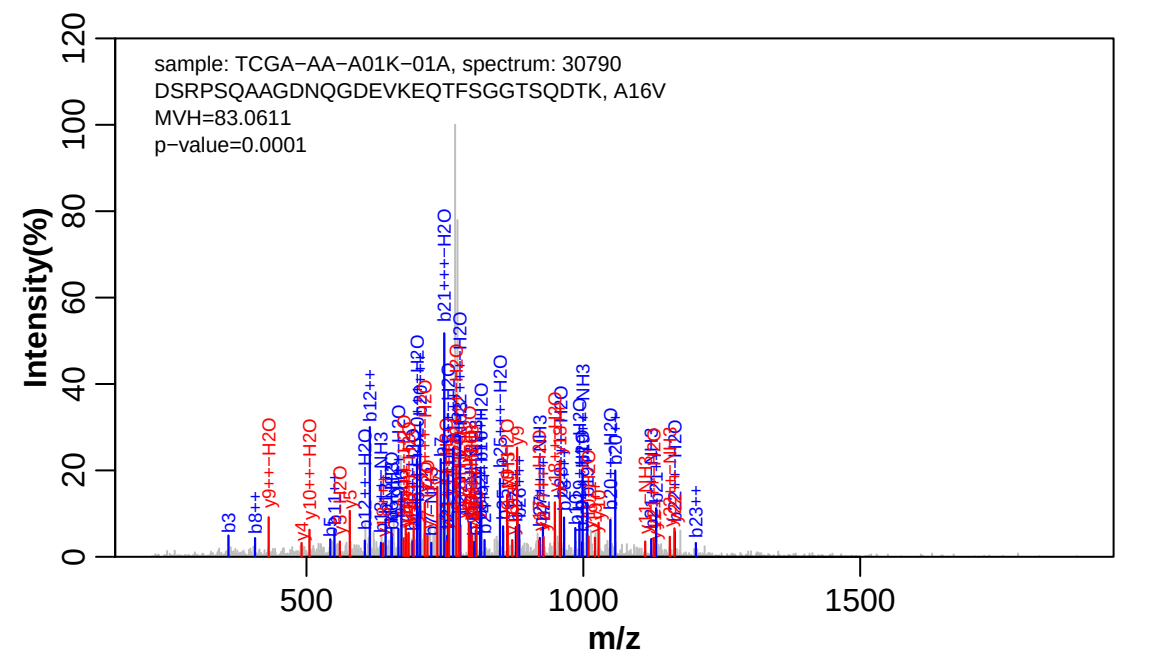

sample: TCGA−AA−A01K−01A, spectrum: 138806
ASSSLLLNESEPTTNLQLR, D8N
MVH=64.6982
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y3
y4
b6
y5
b7
H2O
y6
b9
NH3
y9
y10
y11
y12
y13
y14
b16
b17
b18
b18−NH3

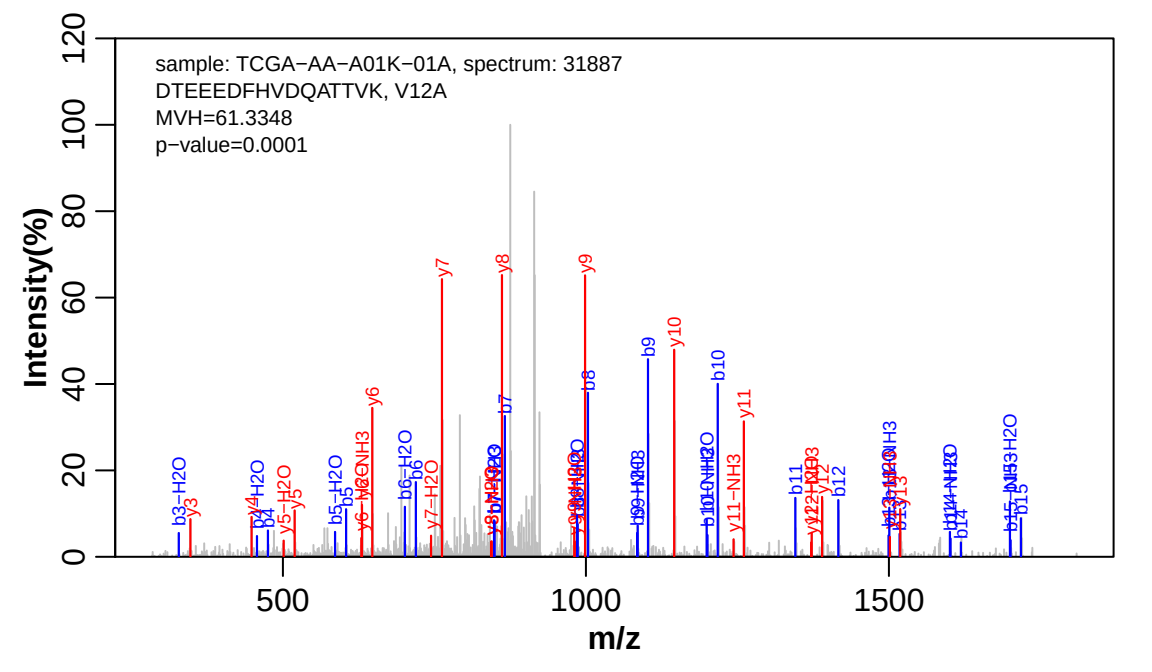

sample: TCGA−AA−A01K−01A, spectrum: 14888
AWLSSQAAELER, V7A
MVH=51.1678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y6−NH3
b7
y6
b7−H2O
y8
y8−NH3
b9−H2O
b9
y9
y9−NH3
b10
y10
b11

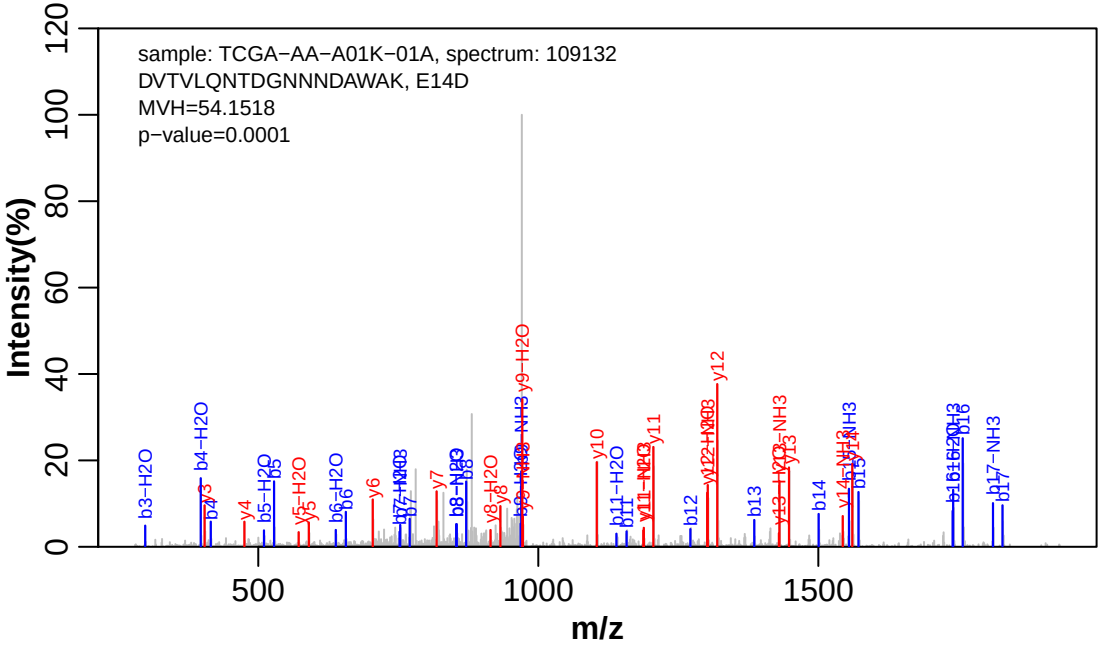

sample: TCGA−AA−A01K−01A, spectrum: 99968
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=46.5324
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
b9++−H2O
y4
y11++
b12++
b13++
b13++−H2O
b16++
b21++
b22++
y11
b13
b11
b12

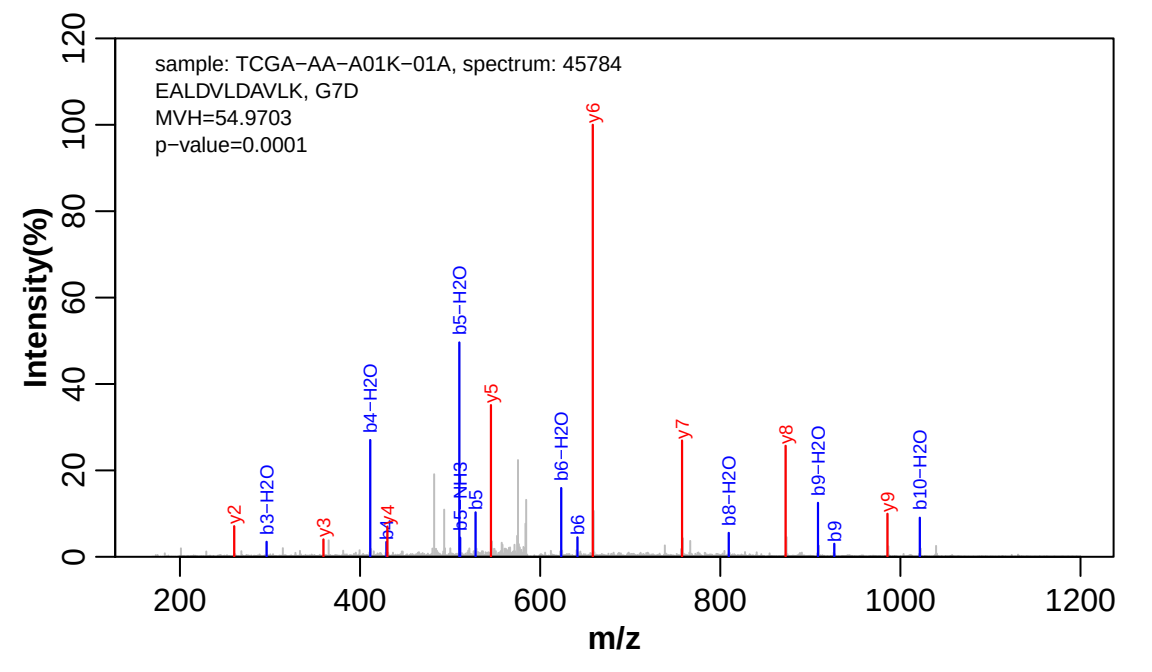

sample: TCGA−AA−A01K−01A, spectrum: 17021
DFYVVEPLAFEGTPEQK, I4V
MVH=53.3325
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
y12
b13
y4
b4
b3
b5
b6
y14
b16
y10
b12
b9
y9
b8
y8
y7
y6
y5
y3−H2O
b6−H2O
y7−H2O
y6−H2O
y5−H2O
b5−H2O
b8−H2O
y8−H2O
b10
b11
y12−NH3
y13−NH3
b13−NH3

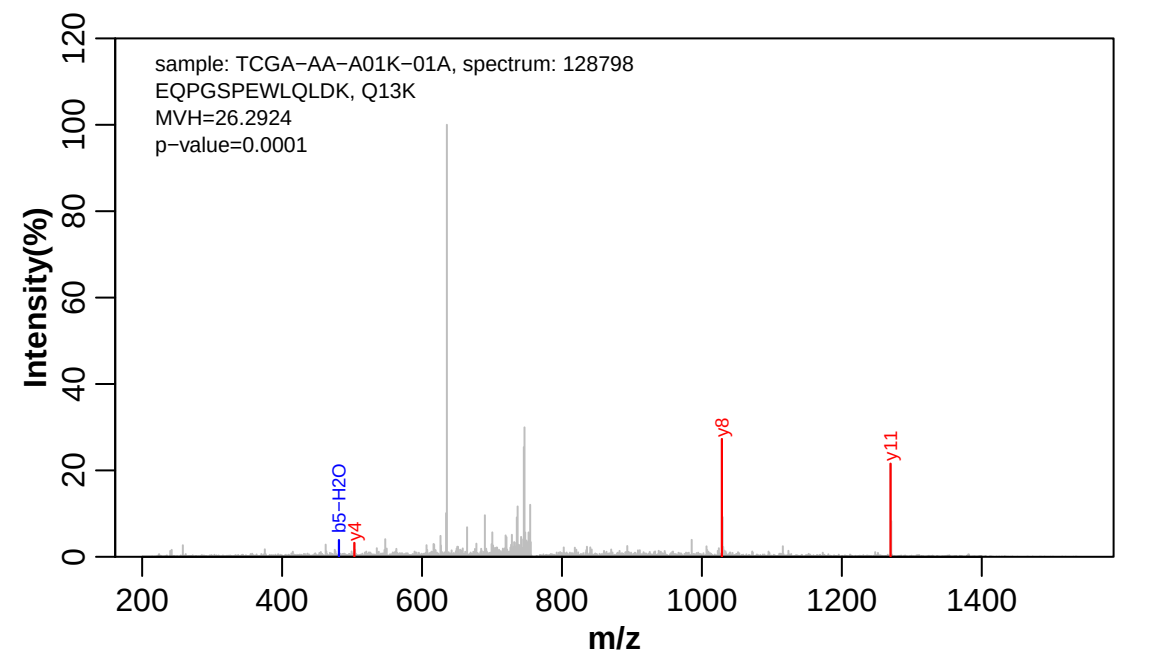

sample: TCGA−AA−A01K−01A, spectrum: 127047
DGYGFLNR, N1D
MVH=44.9486
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

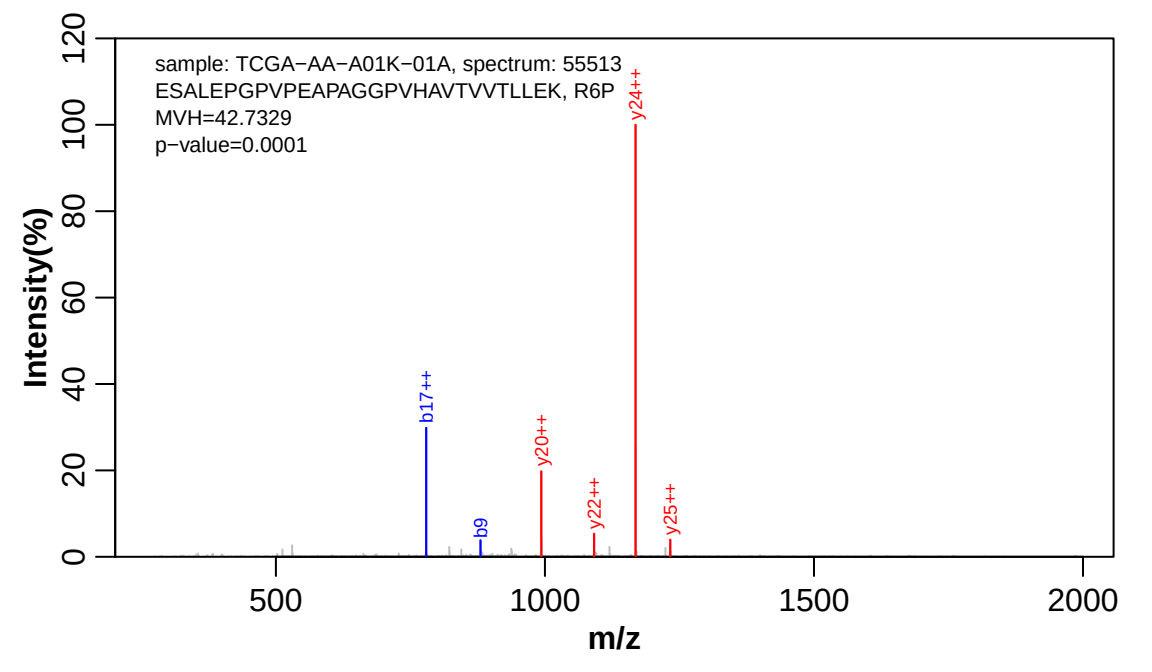

sample: TCGA−AA−A01K−01A, spectrum: 30790
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=83.0611
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b8++
y9++−H2O
y4
y10++−H2O
b5
y11++
b12++−H2O
b12++
b21+++−H2O
b25+++−H2O
b23++

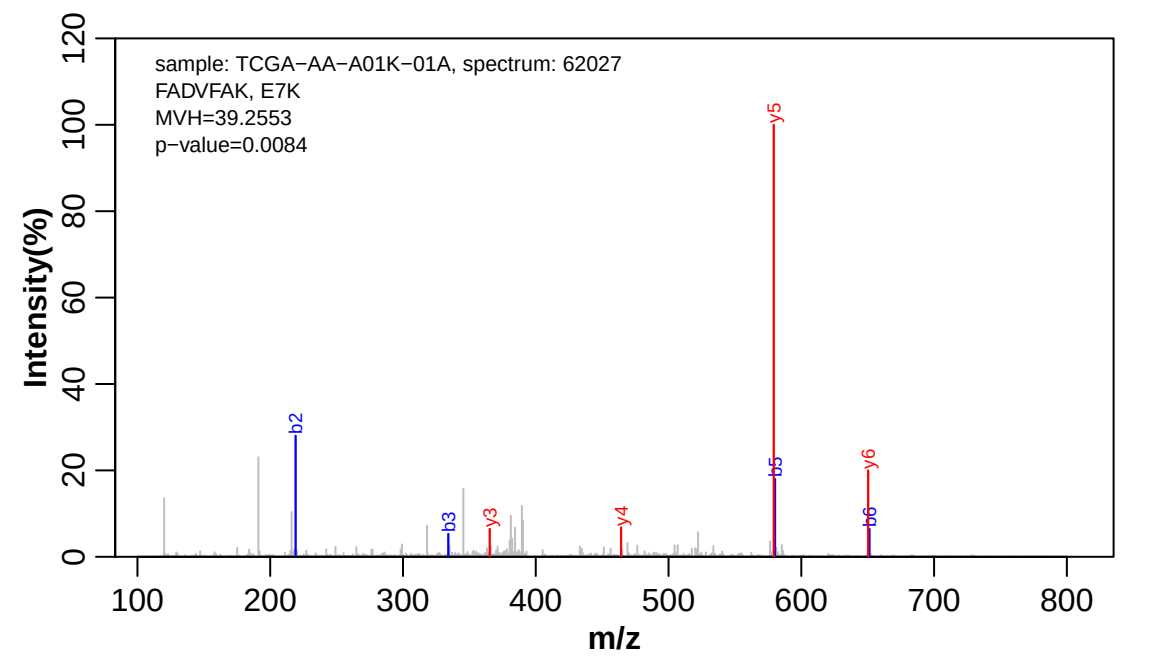

sample: TCGA−AA−A01K−01A, spectrum: 31887
DTEEEDFHVDQATTVK, V12A
MVH=61.3348
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y4−H2O
b4
y5−H2O
y5
b5−H2O
b5
y6−H2O−NH3
y6
b6−H2O
b6
y7−H2O
y7
y8
b7
y9
b8
b9
y10
b10
y11
y11−NH3
b11
b12
b14
b15

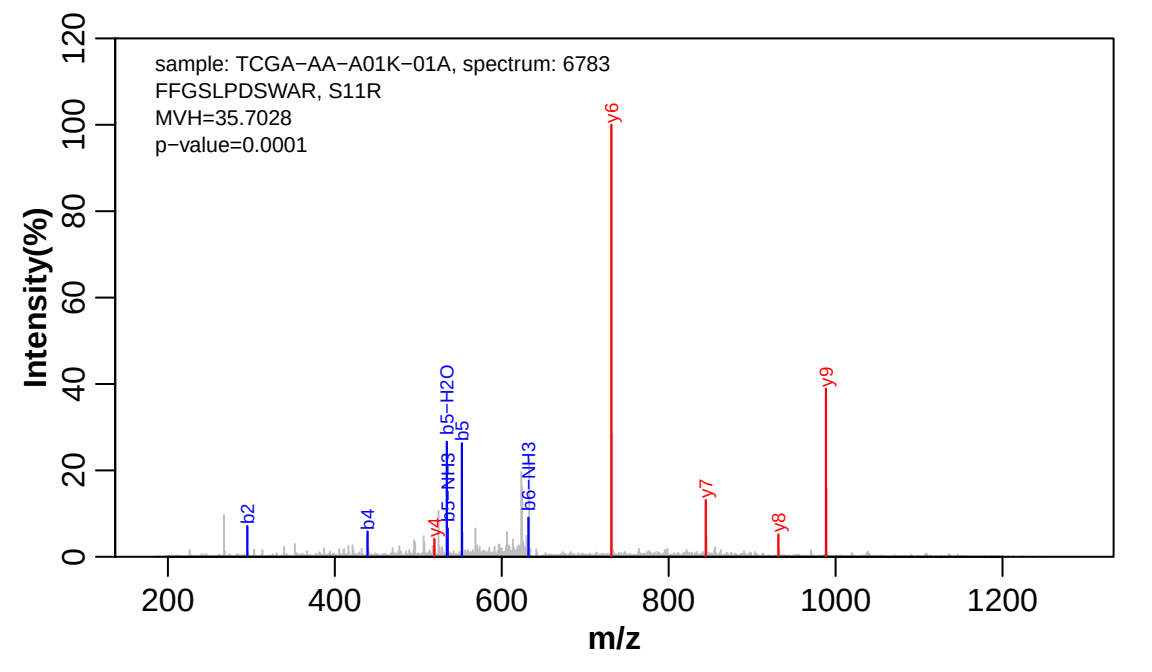

sample: TCGA−AA−A01K−01A, spectrum: 109132
DVTVLQNTDGNNNDAWAK, E14D
MVH=54.1518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4−H2O
y3
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
b8
y8−H2O
y8
y9−H2O
y10
b11−H2O
b11
y11
b12
y12
b13
y13−NH3
b14
b15
b16
b17−NH3

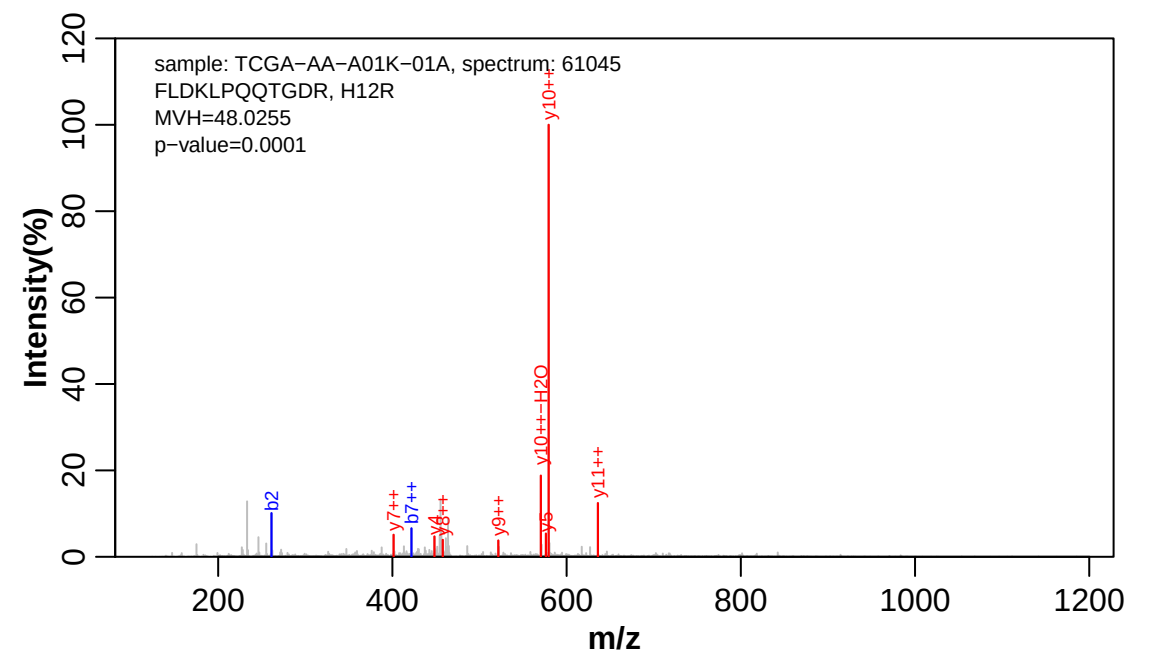

sample: TCGA−AA−A01K−01A, spectrum: 45784
EALDVLDAVLK, G7D
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b5−H2O
b4−H2O
y5
b6−H2O
y7
y8
b9−H2O
b10−H2O
y9
b8−H2O
b5−NH3
b5
b4/4
b6
b9
y2
b3−H2O
y3

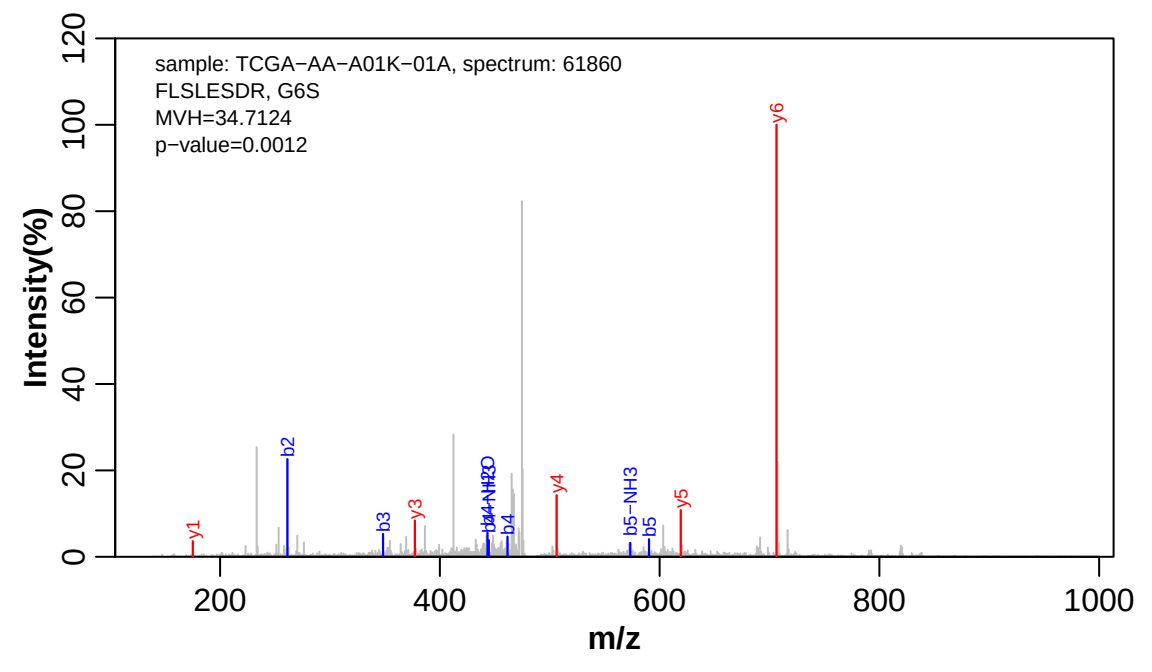

sample: TCGA−AA−A01K−01A, spectrum: 128798
EQPGSPEWLQLDK, Q13K
MVH=26.2924
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

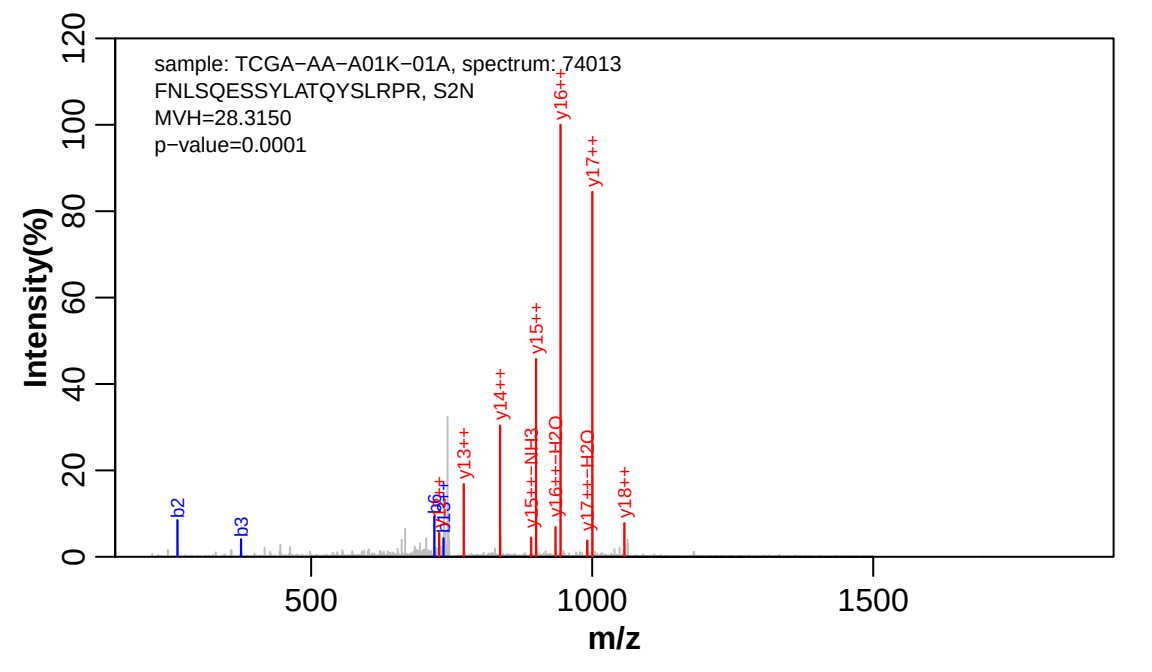

sample: TCGA−AA−A01K−01A, spectrum: 55513
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=42.7329
p−value=0.0001
b17++
b9
y20++
y22++
y24++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

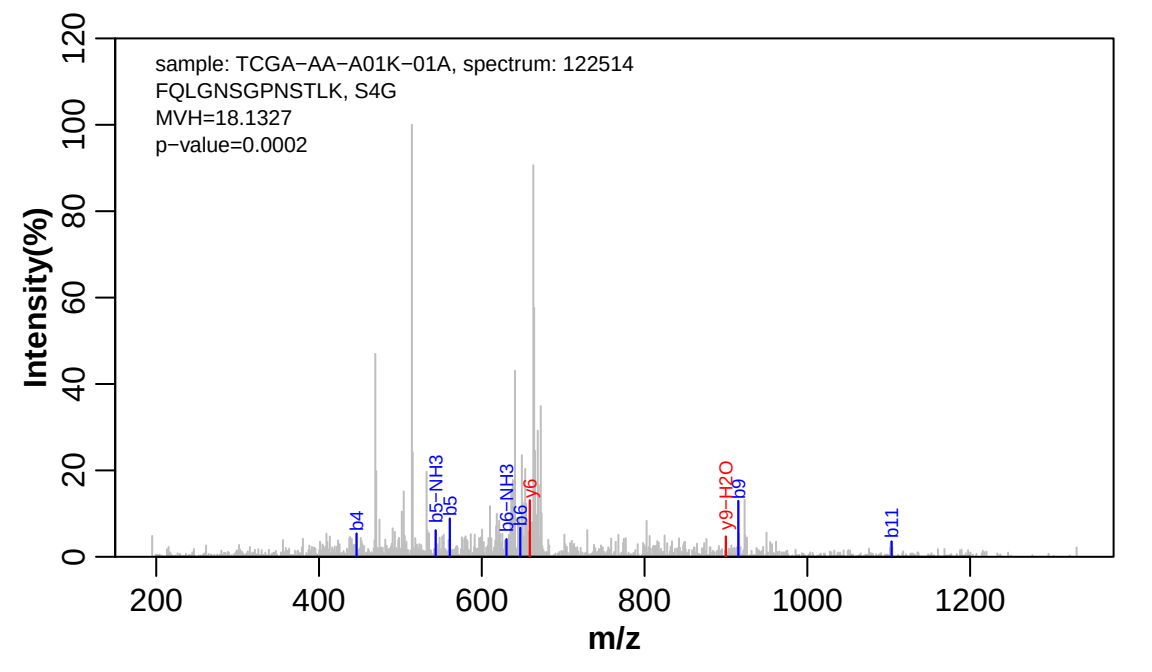

sample: TCGA−AA−A01K−01A, spectrum: 62027
FADVFAK, E7K
MVH=39.2553
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

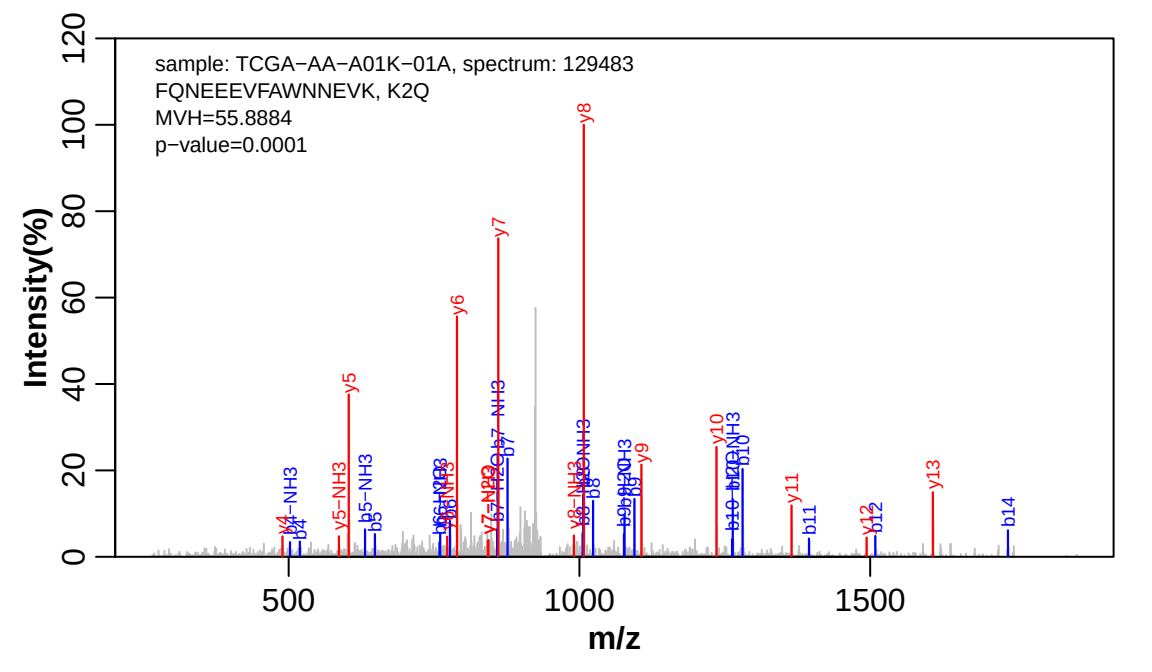

sample: TCGA−AA−A01K−01A, spectrum: 6783
FFGSLPDSWAR, S11R
MVH=35.7028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
b5−H2O
b5
b5−NH3
b6−NH3
y7
y8
b2
b4
y4

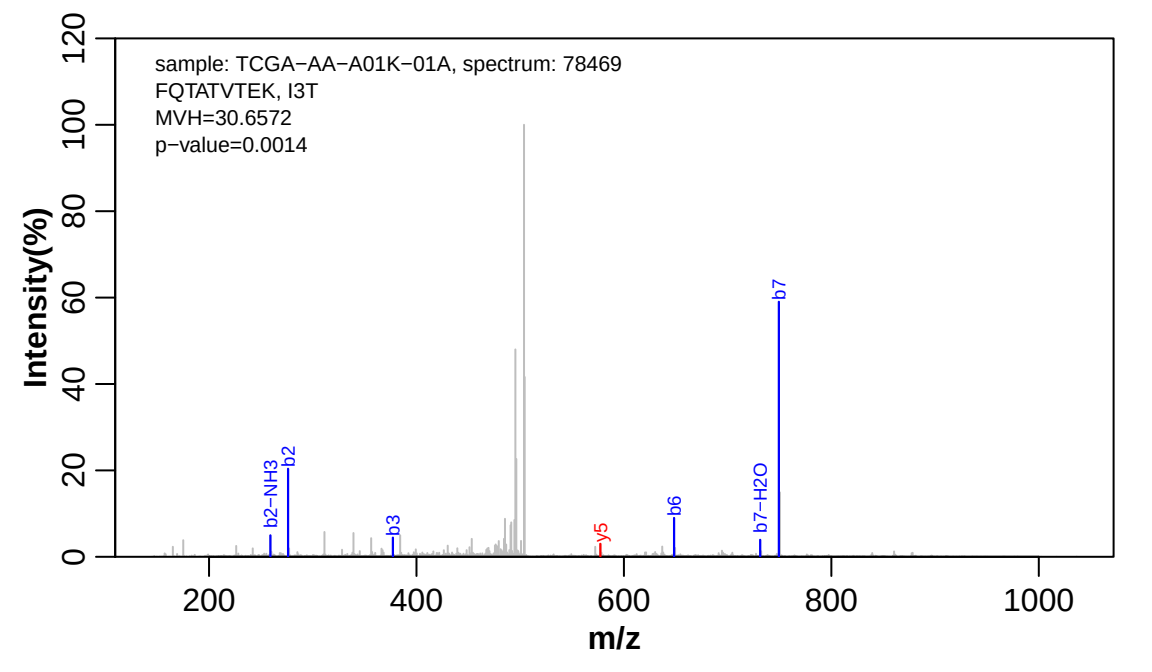

sample: TCGA−AA−A01K−01A, spectrum: 61045
FLDKLPQQTGDR, H12R
MVH=48.0255
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y7++
b7++
y4++
y8++
y9++
y5
y10++−H2O
y10++
y11++

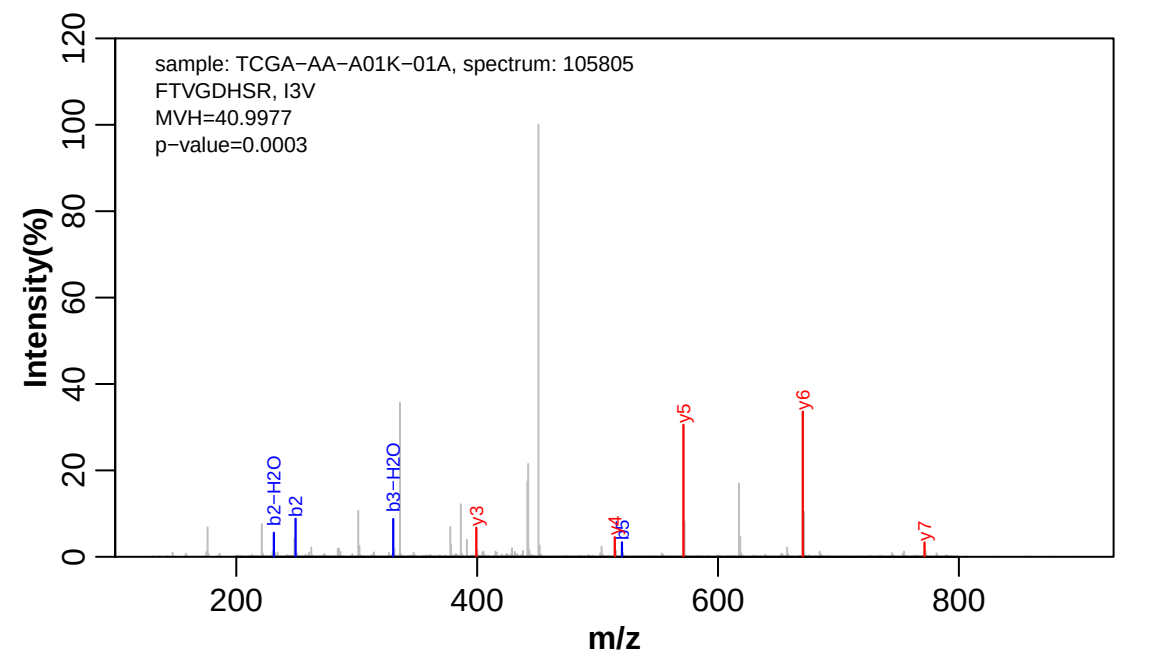

sample: TCGA−AA−A01K−01A, spectrum: 61860
FLSLESDR, G6S
MVH=34.7124
p−value=0.0012
Intensity(%)
m/z
y1
b2
b3
y3
b4−NH2O
b4
y4
b5−NH3
b5
y5
y6

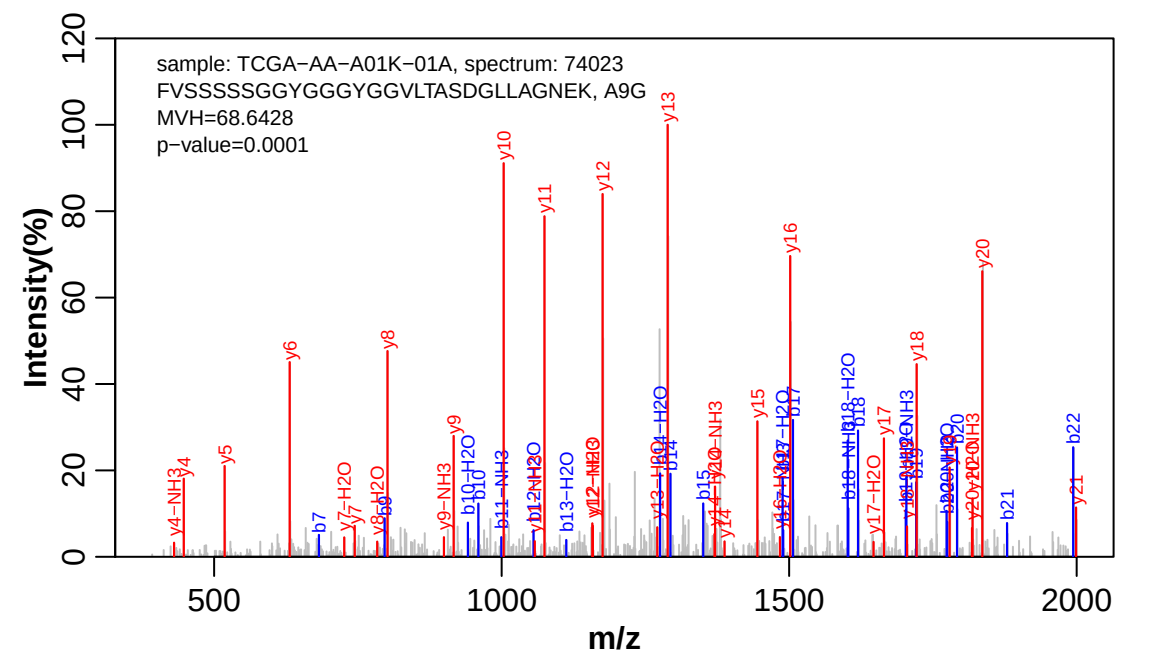

sample: TCGA−AA−A01K−01A, spectrum: 74013
FNLSQESSYLATQYSLRPR, S2N
MVH=28.3150
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b6
b13++
y13++
y14++
y15++−NH3
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

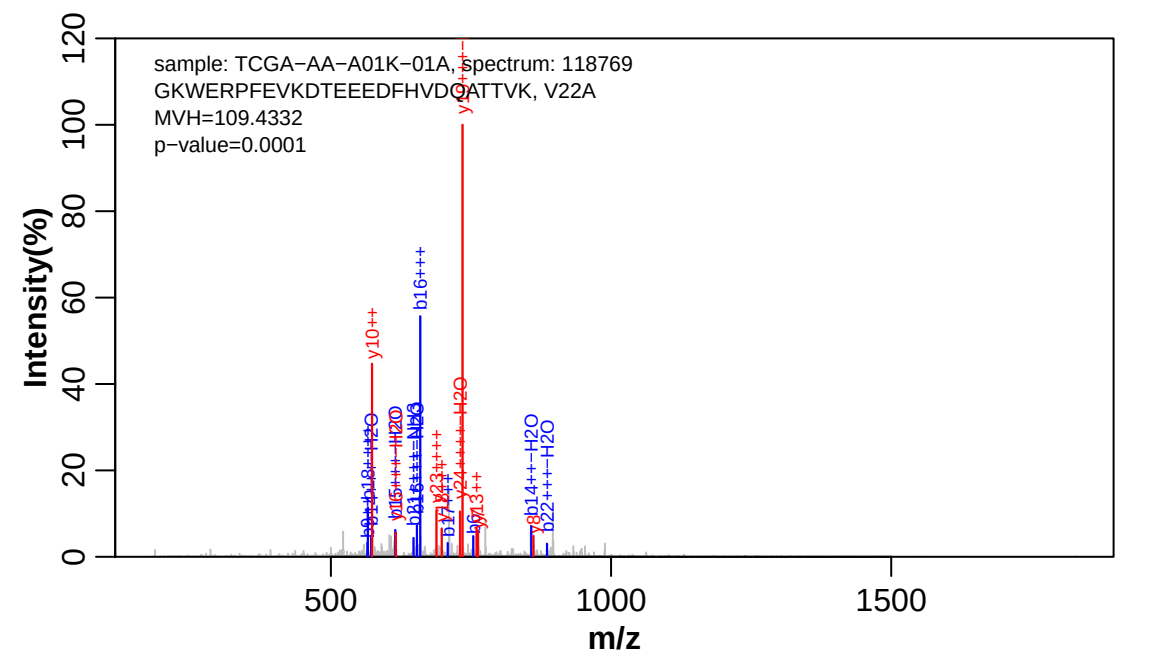

sample: TCGA−AA−A01K−01A, spectrum: 122514
FQLGNSGPNSTLK, S4G
MVH=18.1327
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b4
b5−NH3
b5
b6−NH3
b6
y6
y9−H2O
b9
b11

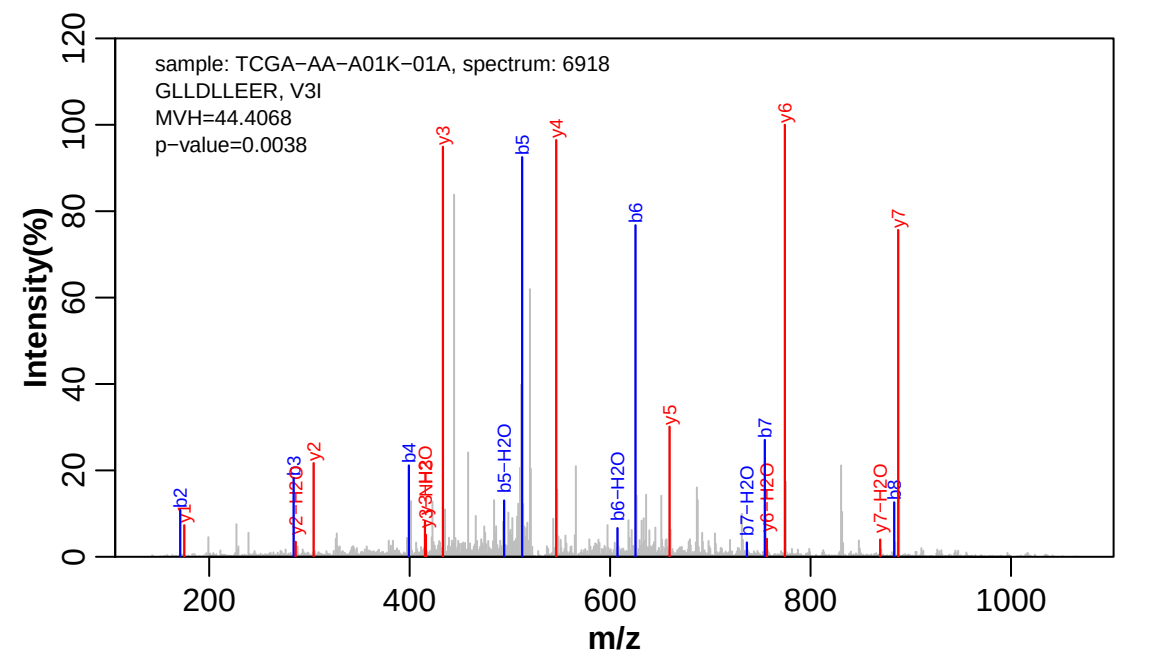

sample: TCGA−AA−A01K−01A, spectrum: 129483
FQNEEEVFAWNNEVK, K2Q
MVH=55.8884
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y8
y7
y6
y5
y5−NH3
b5−NH3
b5
y4
b4
y4−NH3
y8−NH3
b8
y9
y10
b10
y11
b11
y12
b12
y13
b14

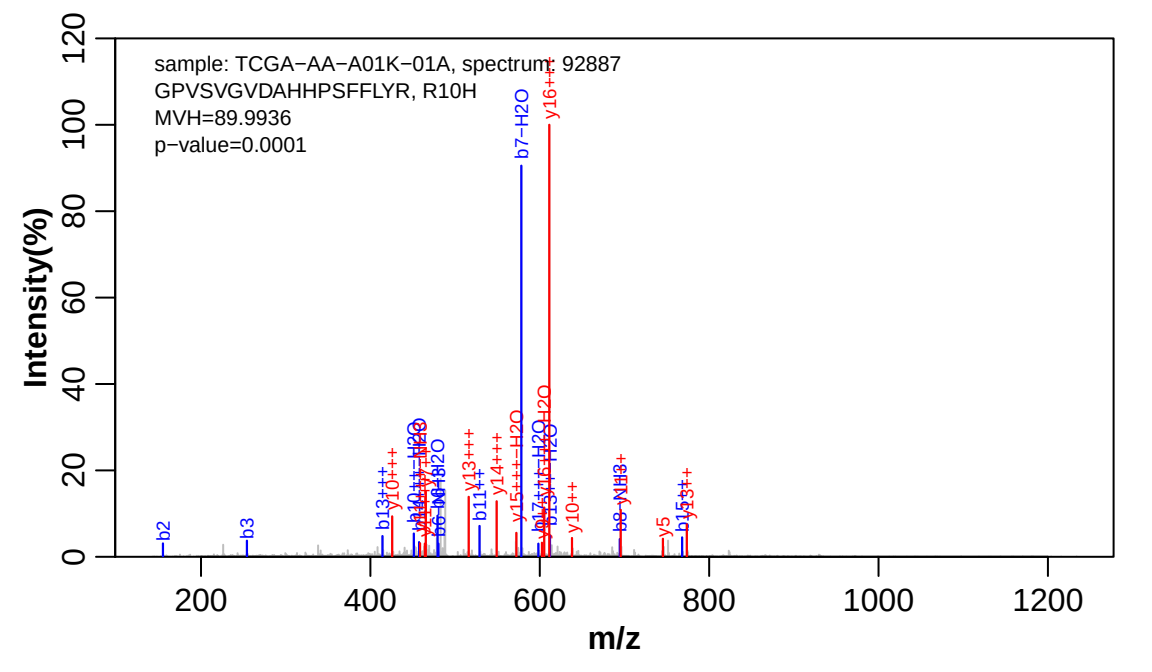

sample: TCGA−AA−A01K−01A, spectrum: 78469
FQTATVTEK, I3T
MVH=30.6572
p−value=0.0014
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
y5
b6
b7−H2O
b7

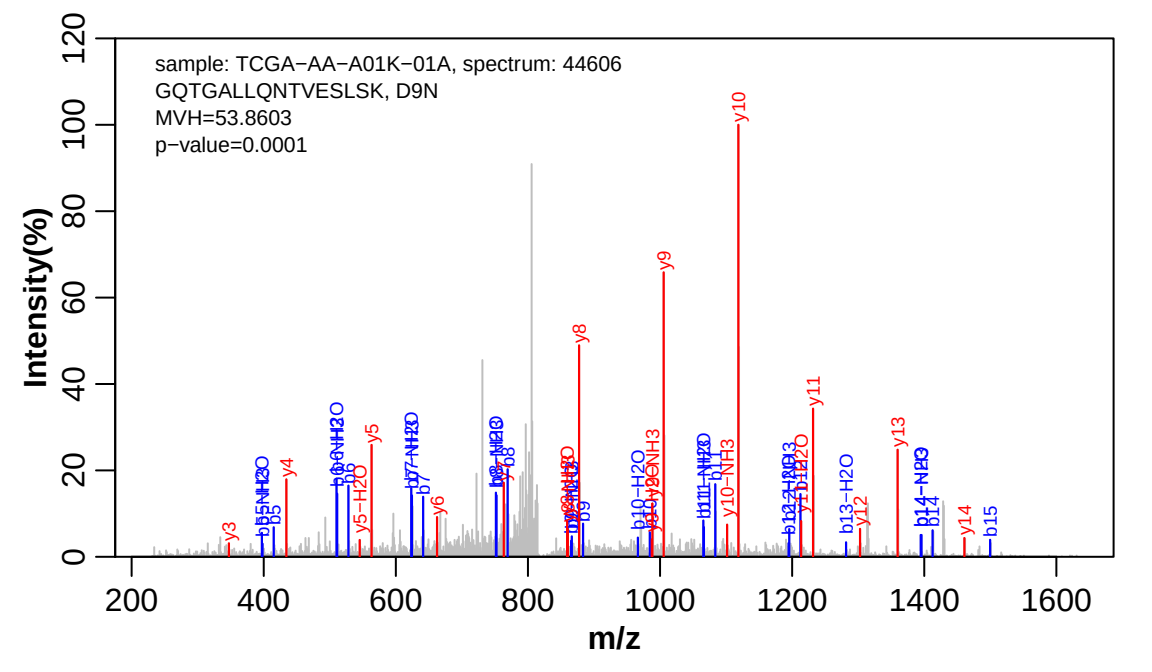

sample: TCGA−AA−A01K−01A, spectrum: 105805
FTVGDHSR, I3V
MVH=40.9977
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
b4
b5
y5
y6
y7

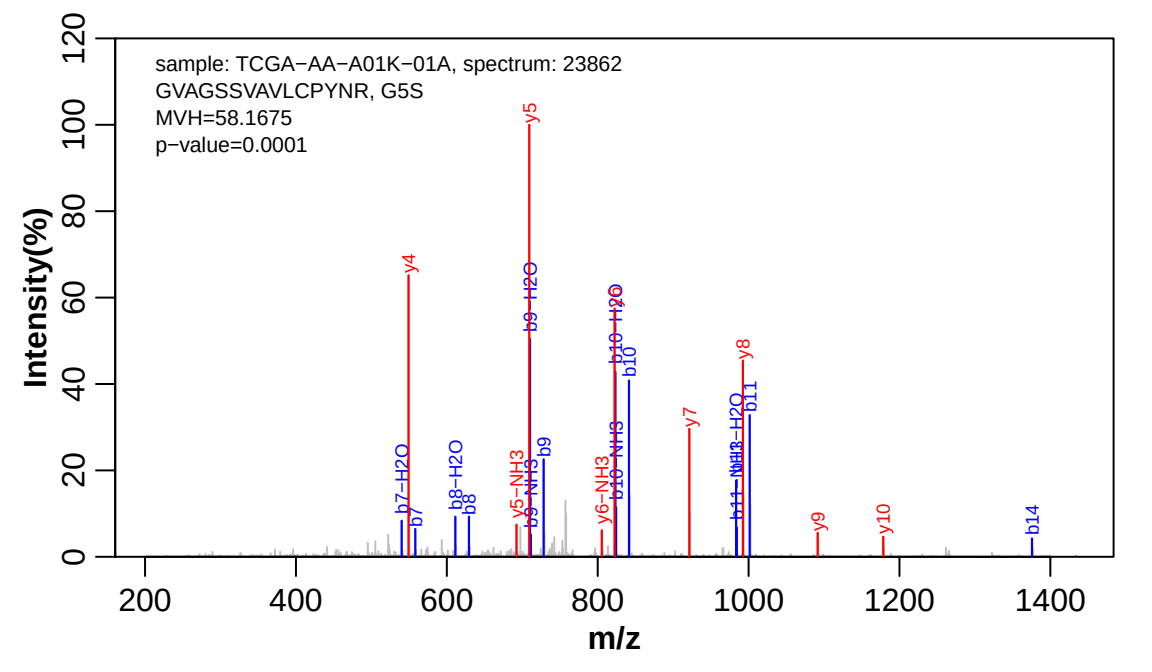

sample: TCGA−AA−A01K−01A, spectrum: 74023
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=68.6428
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y13
y10
y12
y11
y16
y20
y6
y8
y18
y15
y9
y17
y5
y4
b7
b21
b22
y21
b15
b17
b18
b14
b13−H2O
b11−NH3
b10−H2O
y4−NH3
y7−H2O
y8−H2O
y9−NH3
y12−H2O
y12−NH3
y13−H2O
y14−NH3
y17−H2O
y20−NH3
b18−H2O
b18−NH3

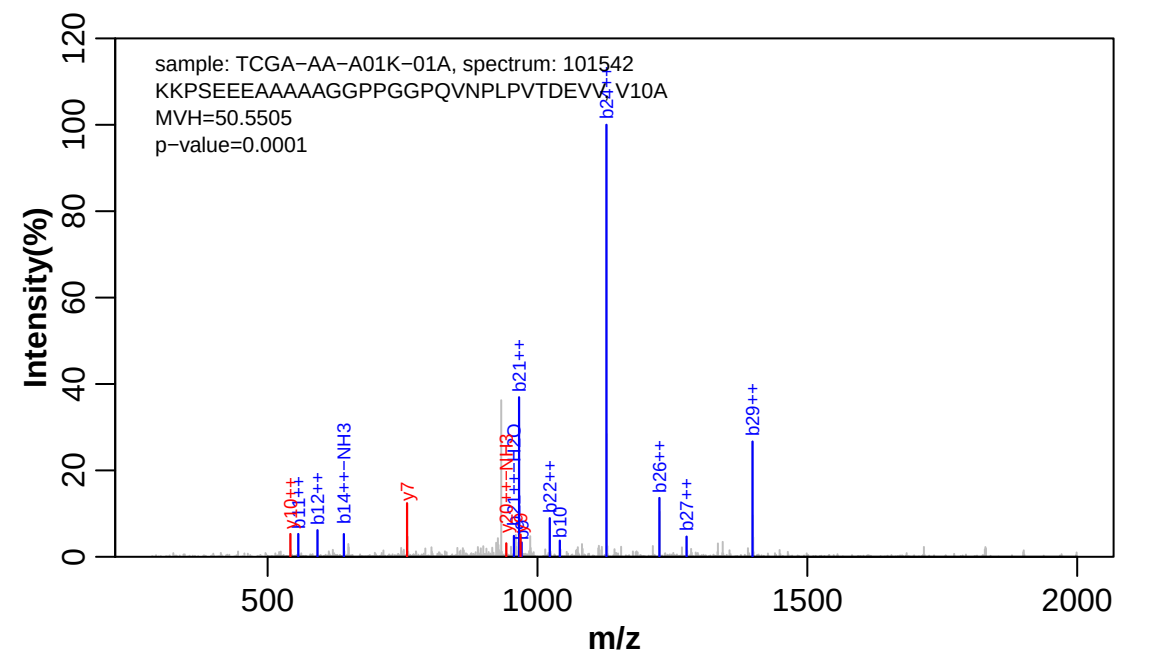

sample: TCGA−AA−A01K−01A, spectrum: 118769
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=109.4332
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10++
b16+++
y11++
b14+++−H2O
b22++−H2O

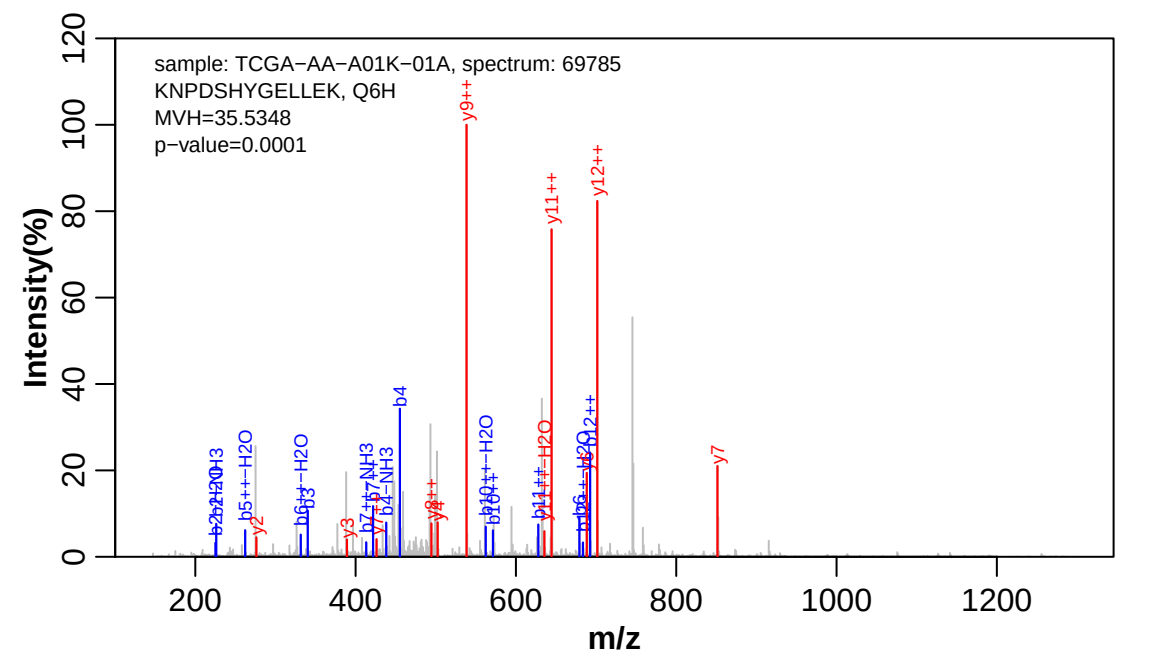

sample: TCGA−AA−A01K−01A, spectrum: 6918
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2−H2O
b3
y2
b4
y3−NH2O
y3
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7−H2O
y6−H2O
b7
y6
y7−H2O
b8
y7

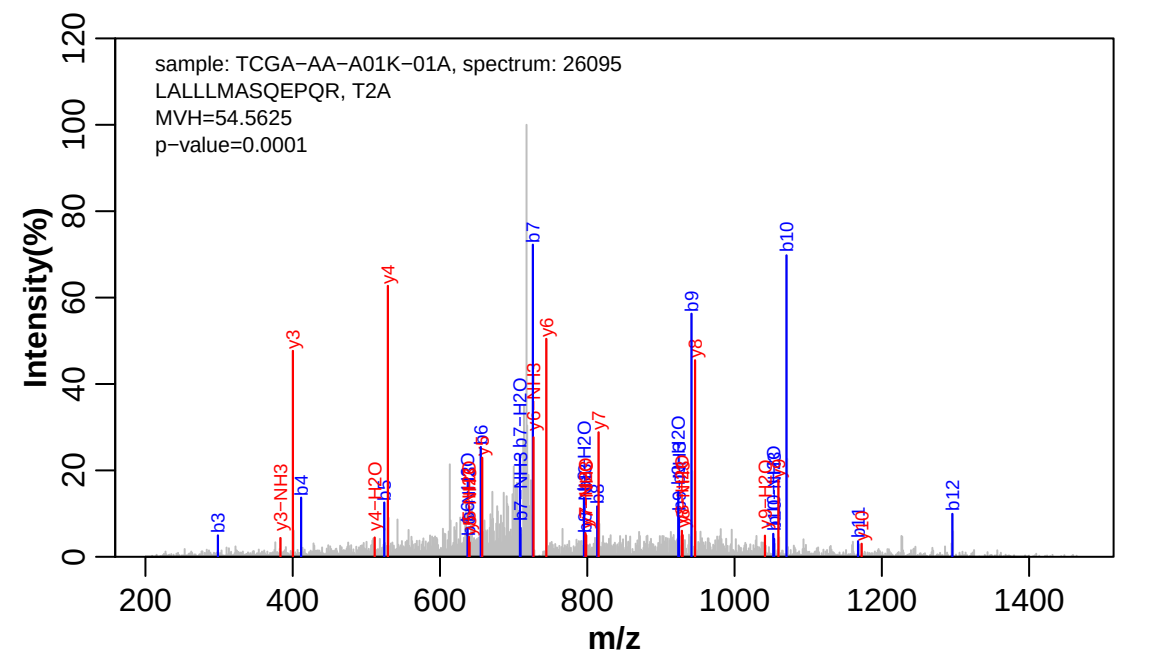

sample: TCGA−AA−A01K−01A, spectrum: 92887
GPVSVGVDAHHPSFFLYR, R10H
MVH=89.9936
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b13++
y10+++
b7−H2O
y16++
y13+++
b11++
y14+++
y15+++−H2O
y10++
b8−NH3
y5
b15++

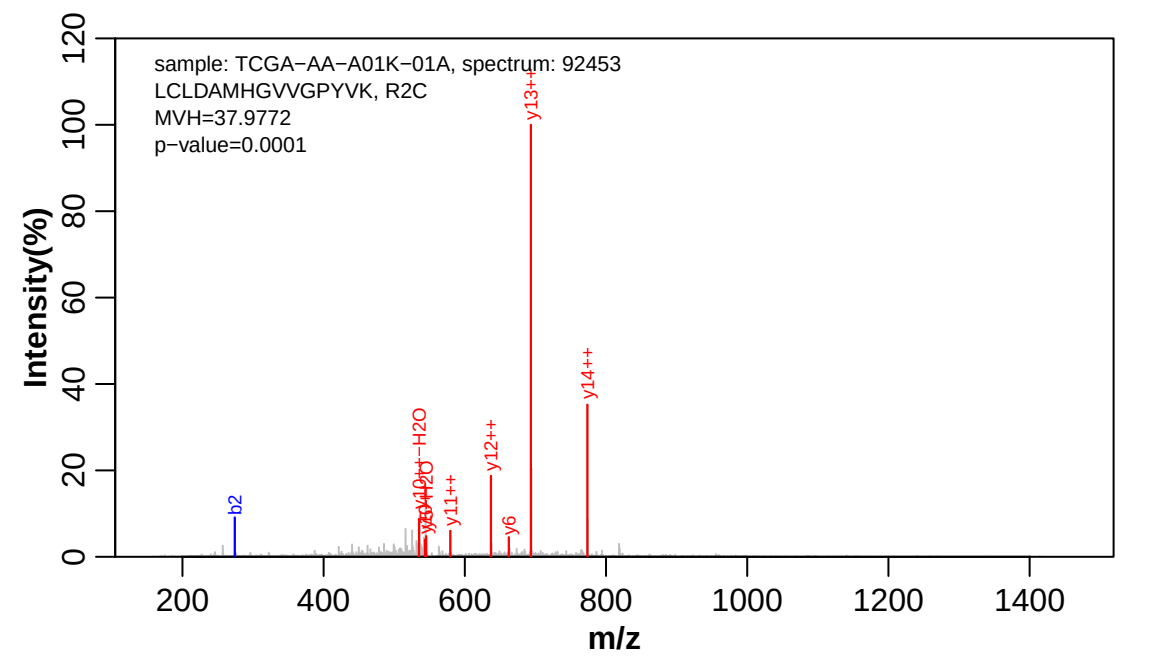

sample: TCGA−AA−A01K−01A, spectrum: 44606
GQTGALLQNTVESLSK, D9N
MVH=53.8603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
y5−H2O
y6
y7
y8
y9
y10
y10−NH3
y11
y12
y13
y14
b15
b13−H2O
b10−H2O

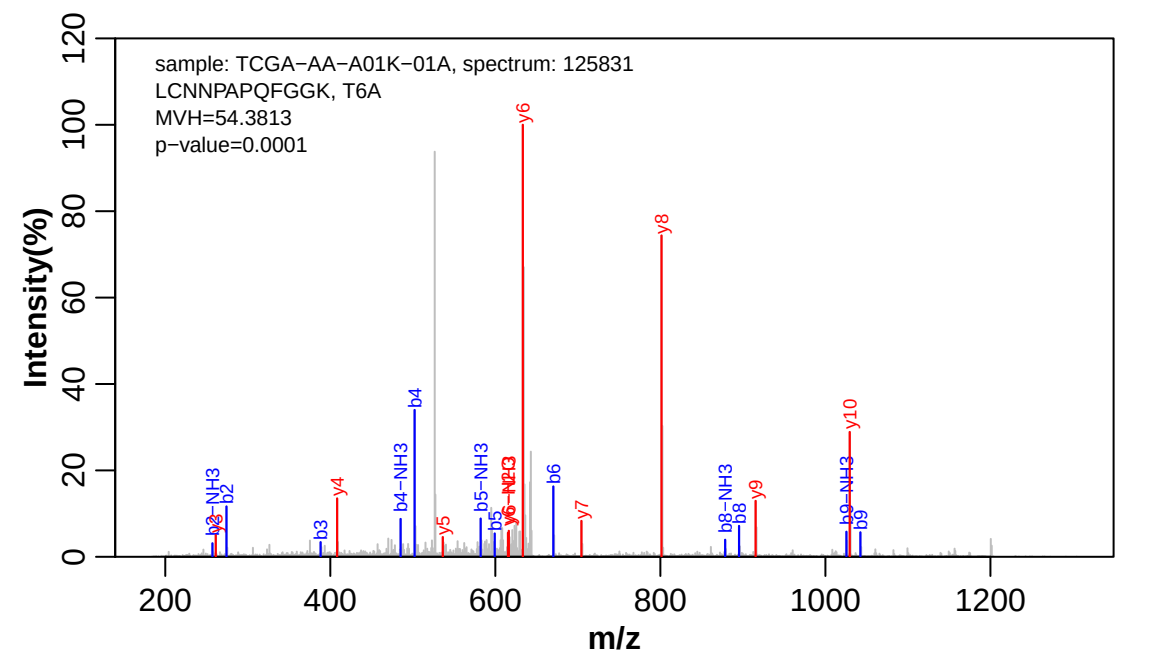

sample: TCGA−AA−A01K−01A, spectrum: 23862
GVAGSSVAVLCPYNR, G5S
MVH=58.1675
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b7−H2O
b8−H2O
b8
b7
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−H2O
y9
y10
b14

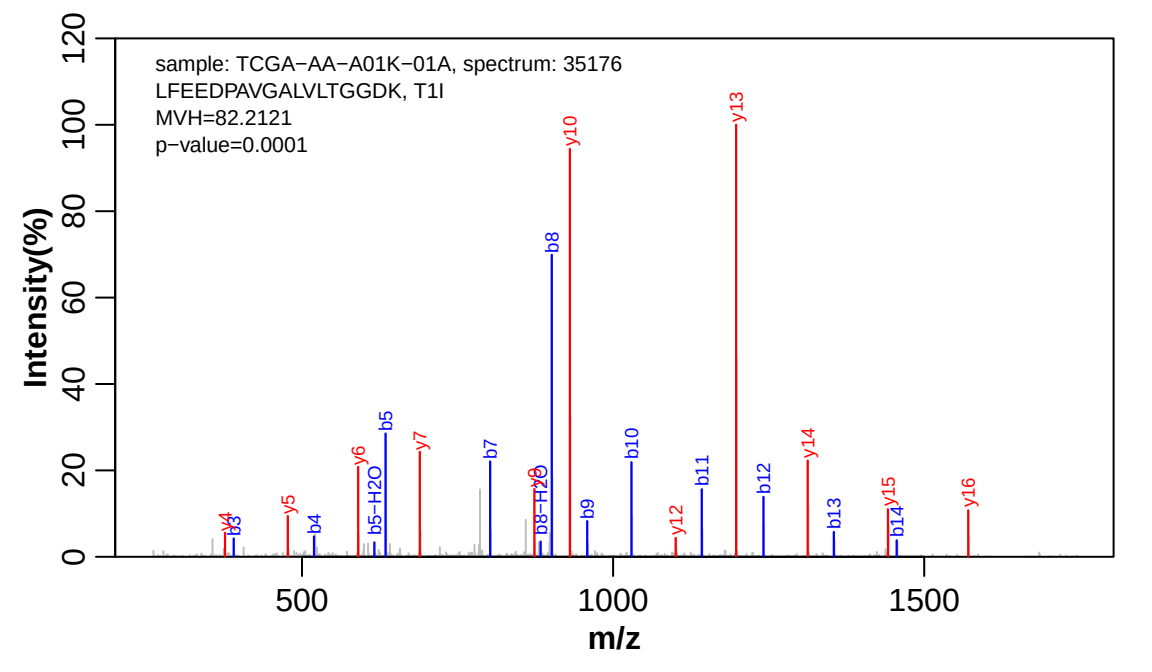

sample: TCGA−AA−A01K−01A, spectrum: 101542
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=50.5505
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b11++
b12++
b14++−NH3
y7
b21++
b22++
b10
b24++
b26++
b27++
b29++

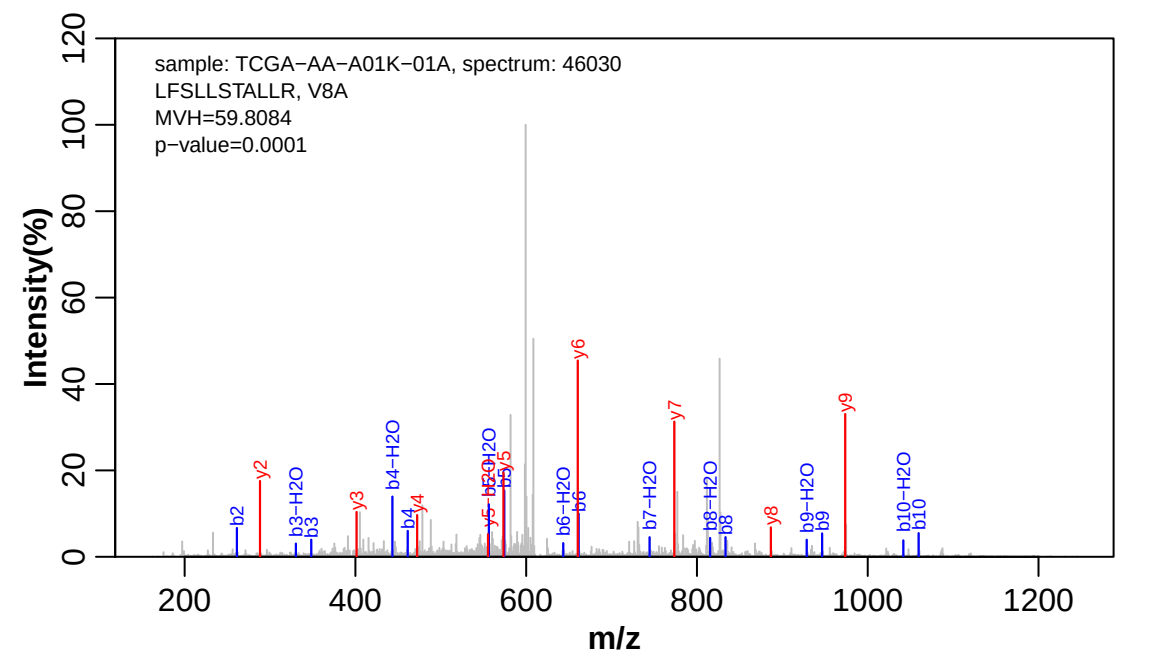

sample: TCGA−AA−A01K−01A, spectrum: 69785
KNPDSHYGELLEK, Q6H
MVH=35.5348
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9++
y11++
y12++
y7
b4
y2
y3
b3
b5++−H2O
b6++−H2O
b10++−H2O
y11++−H2O
y12++−H2O
b4−NH3
y7++−NH3

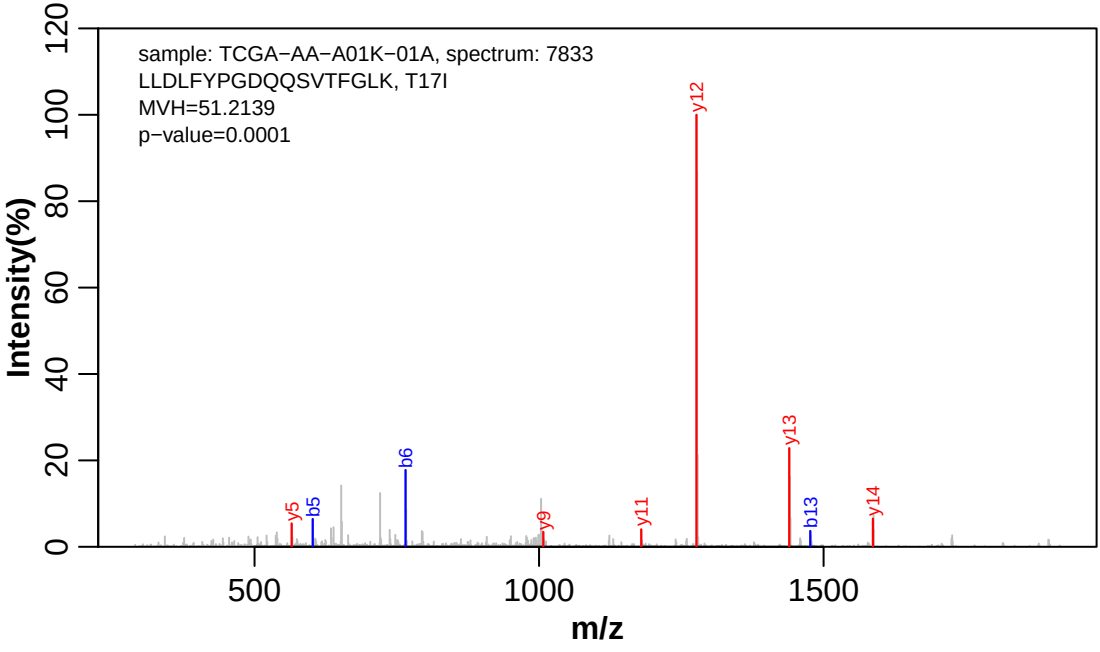

sample: TCGA−AA−A01K−01A, spectrum: 26095
LALLLMASQEPQR, T2A
MVH=54.5625
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3−NH3
b4
y3
y4−H2O
b5
y4
b7
b7−NH3
b7−H2O
y6−NH3
y6
y7
b9
b9−H2O
y8
b10
b12
y11

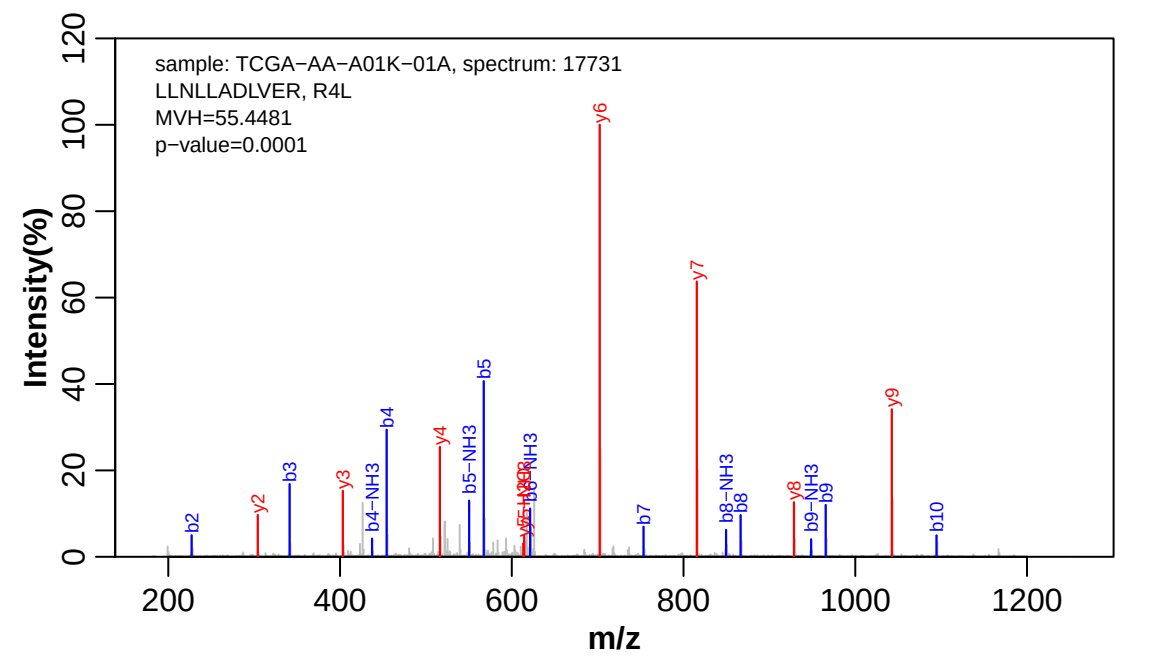

sample: TCGA−AA−A01K−01A, spectrum: 92453
LCLDAMHGVVGPYVK, R2C
MVH=37.9772
p−value=0.0001
Intensity(%)
m/z
b2
y11++
y12++
y13++
y14++
y6
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

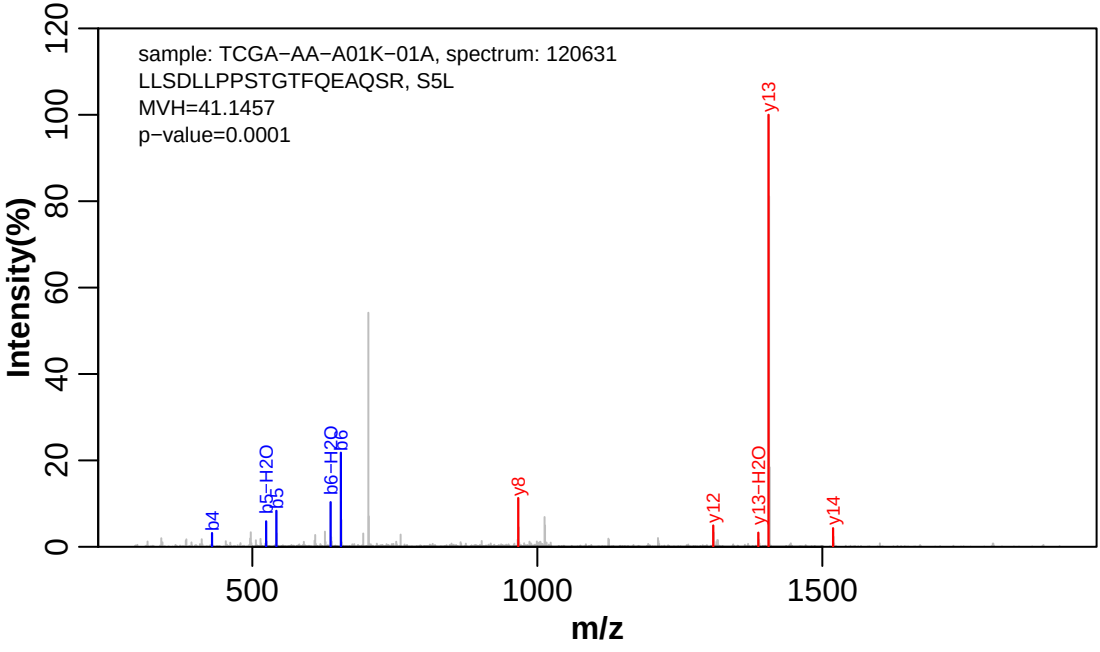

sample: TCGA−AA−A01K−01A, spectrum: 125831
LCNNPAPQFGGK, T6A
MVH=54.3813
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
b3
y4
b4−NH3
b4
y5
b5−NH3
b5
y6−NH3
y6
b6
y7
y8
b8−NH3
b8
y9
b9−NH3
y10
b9

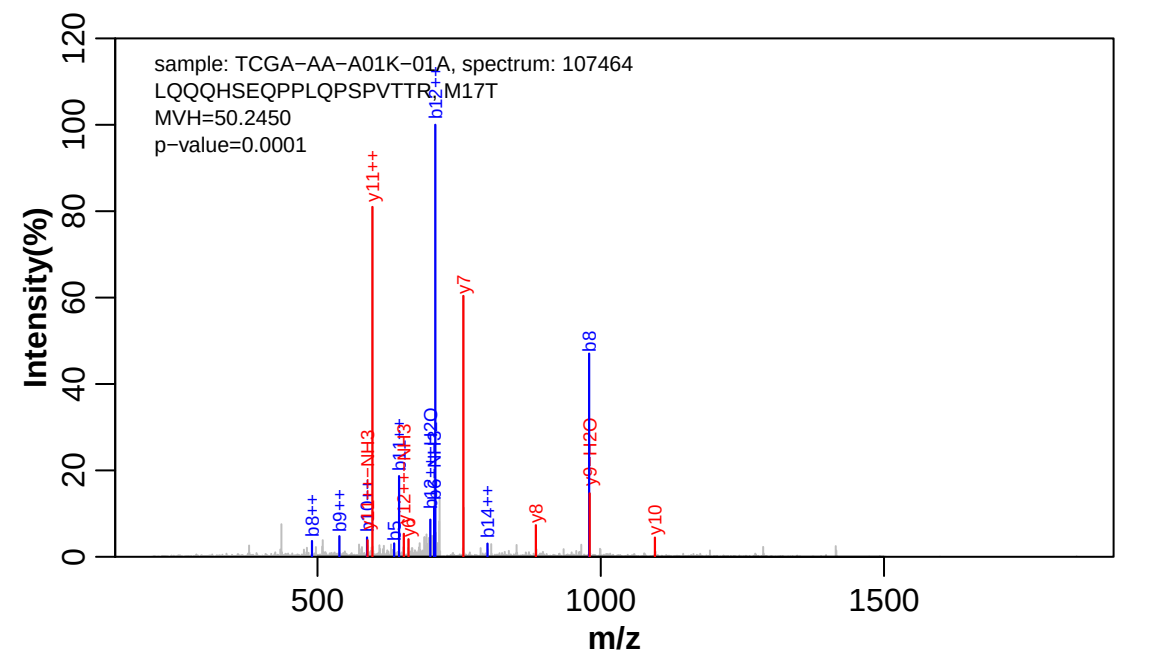

sample: TCGA−AA−A01K−01A, spectrum: 35176
LFEEDPAVGALVLTGGDK, T1I
MVH=82.2121
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b3
y5
b4
y6
b5−H2O
b5
y7
b7
y8
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

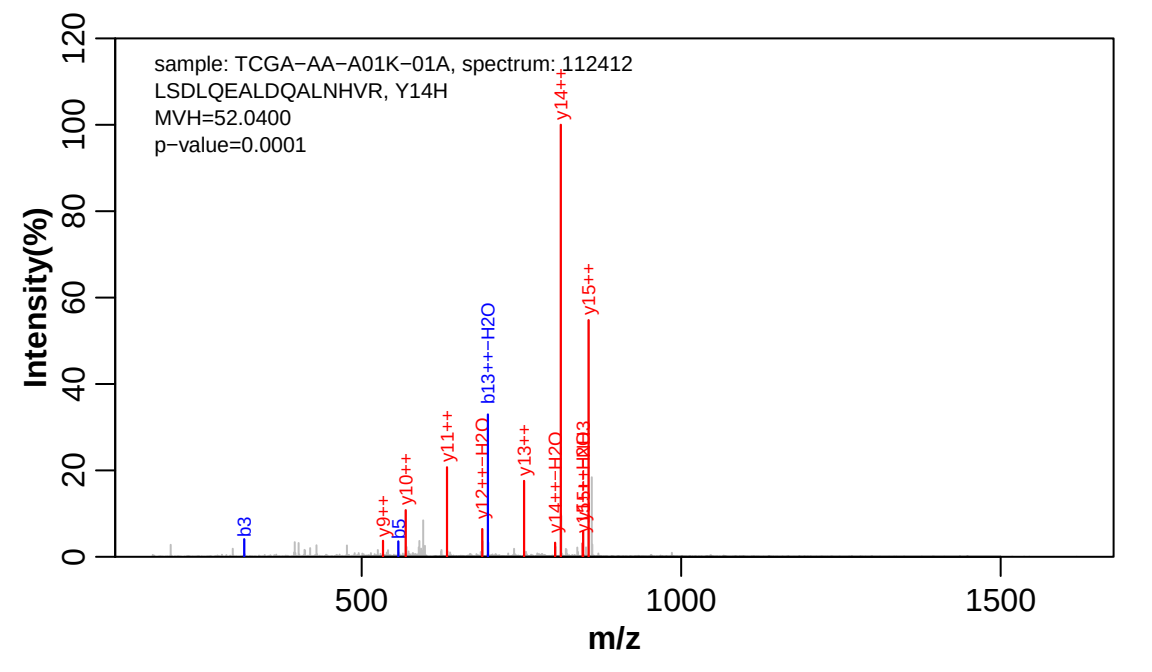

sample: TCGA−AA−A01K−01A, spectrum: 46030
LFSLLSTALLR, V8A
MVH=59.8084
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
y5−H2O
y5
b5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10−H2O
b10

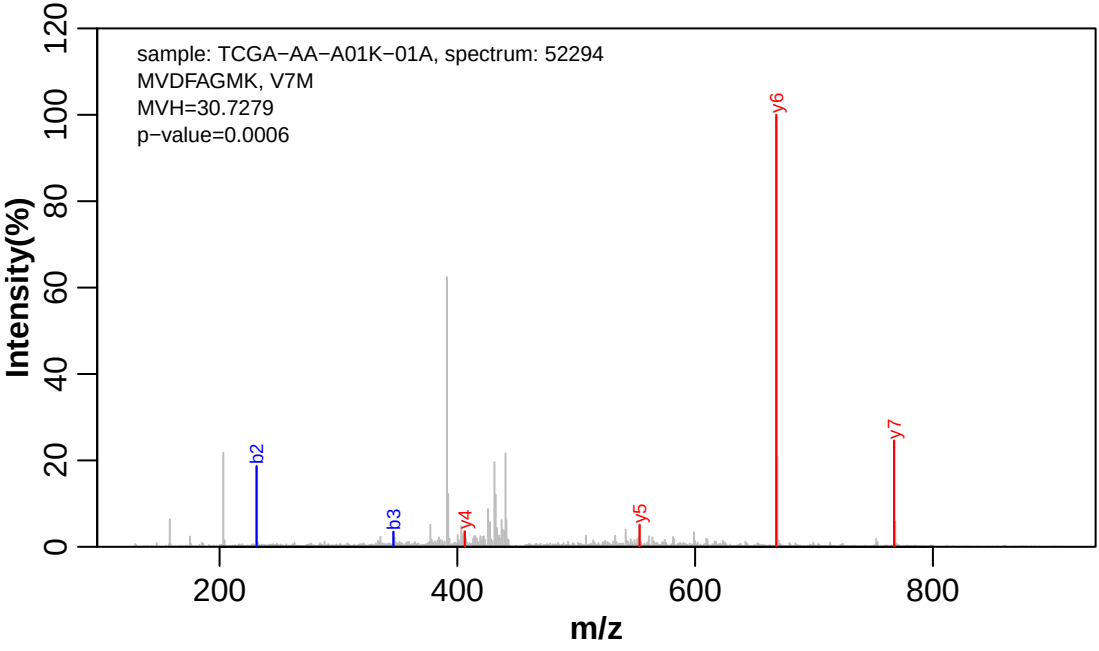

sample: TCGA−AA−A01K−01A, spectrum: 7833
LLDLFYPGDQQSVTFGLK, T17I
MVH=51.2139
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b5
b6
y9
y11
y12
y13
b13
y14

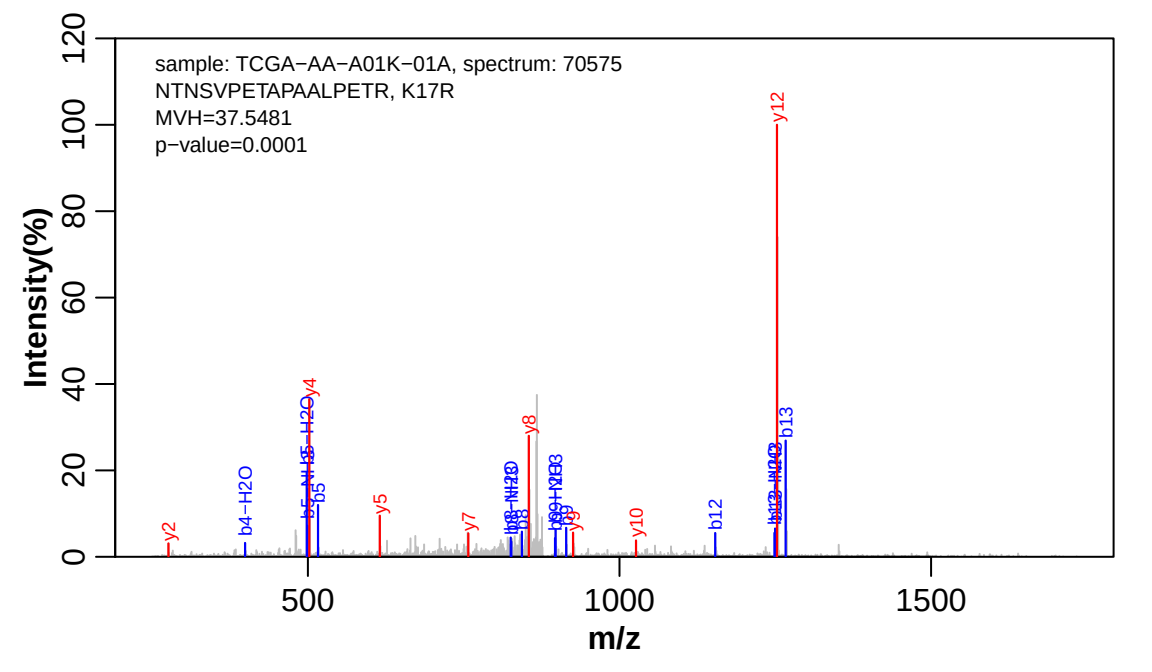

sample: TCGA−AA−A01K−01A, spectrum: 17731
LLNLLADLVER, R4L
MVH=55.4481
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

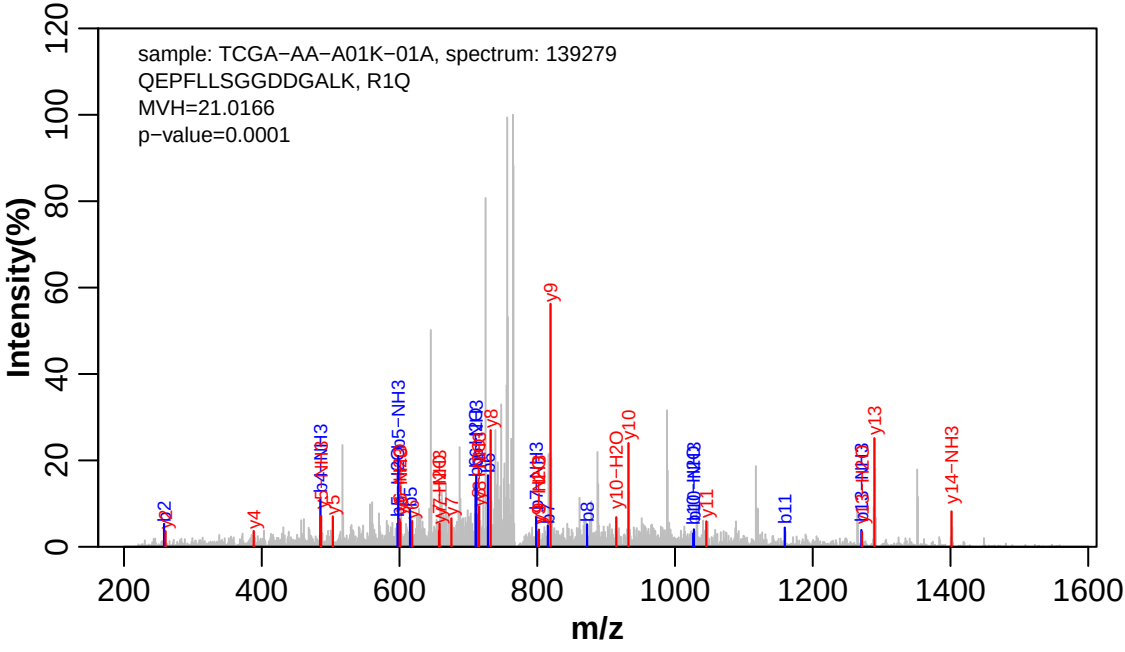

sample: TCGA−AA−A01K−01A, spectrum: 120631
LLSDLLPPSTGTFQEAQSR, S5L
MVH=41.1457
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−H2O
b5
b6−H2O
b6
y8
y12
y13−H2O
y13
y14

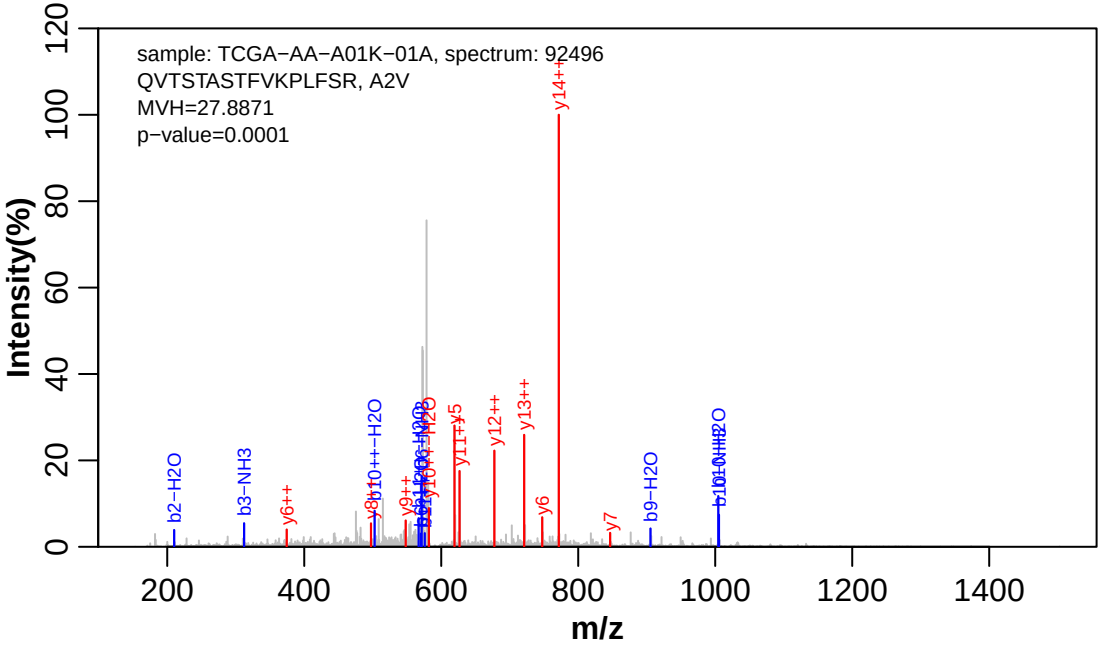

sample: TCGA−AA−A01K−01A, spectrum: 107464
LQQQHSEQPPLQPSPVTTR, M17T
MVH=50.2450
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b12++
y11++
y7
b8
y9−H2O
y10
y8
b14++
b8++
b9++
b5
y12++
b13++
b8+NH3
b8+H2O
y10++−NH3

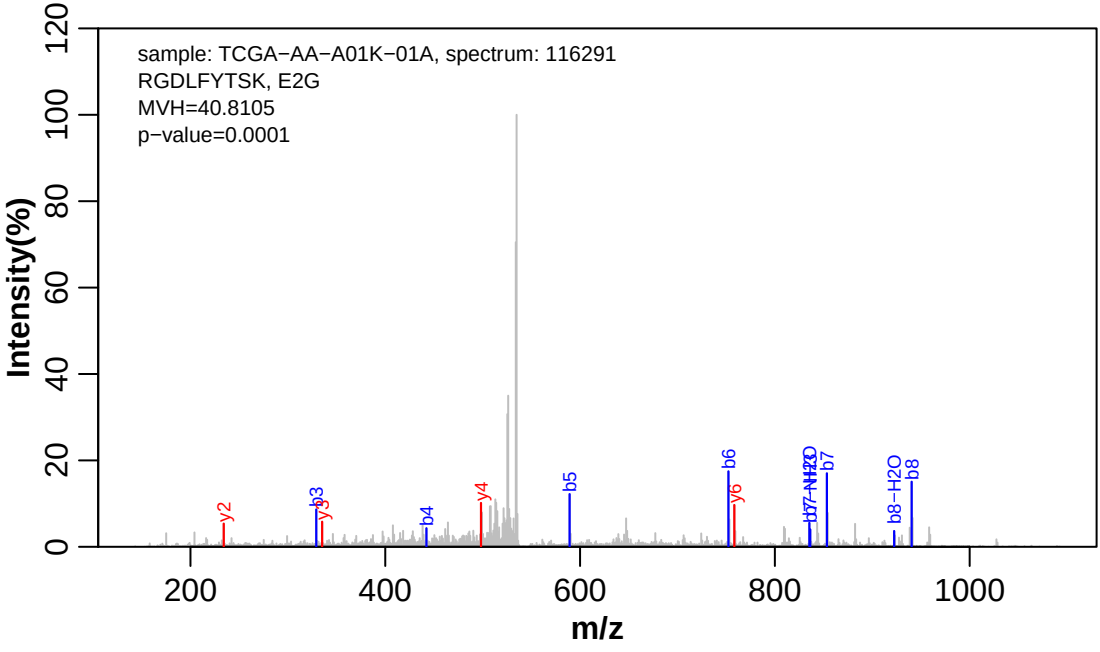

sample: TCGA−AA−A01K−01A, spectrum: 112412
LSDLQEALDQALNHVR, Y14H
MVH=52.0400
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++

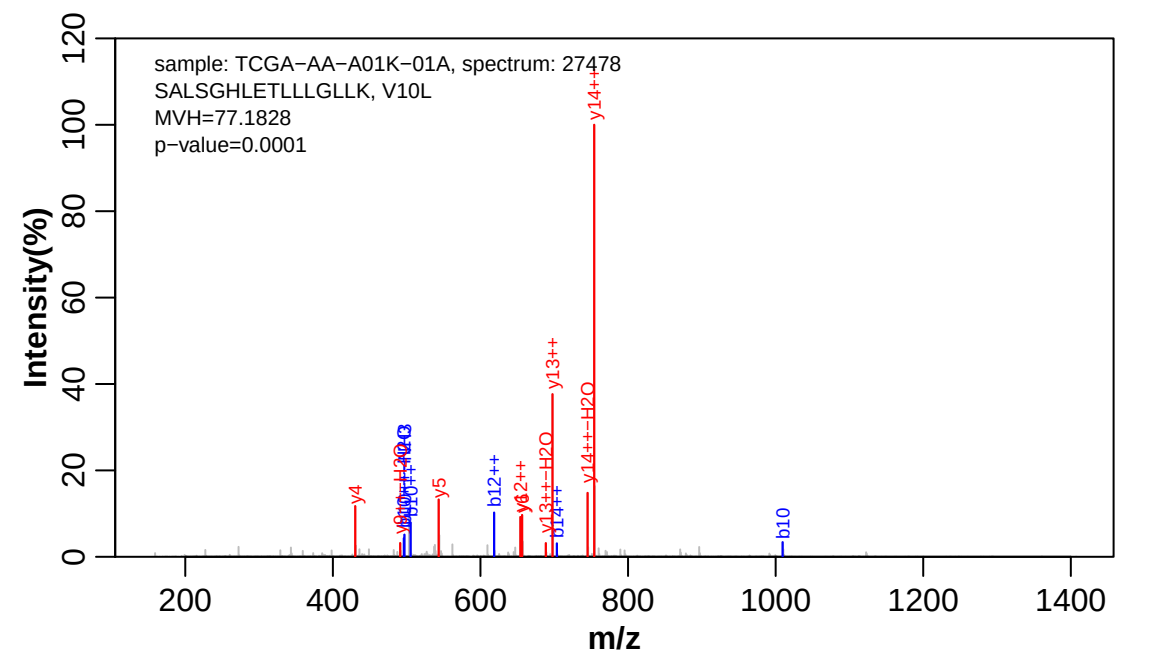

sample: TCGA−AA−A01K−01A, spectrum: 52294
MVDFAGMK, V7M
MVH=30.7279
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

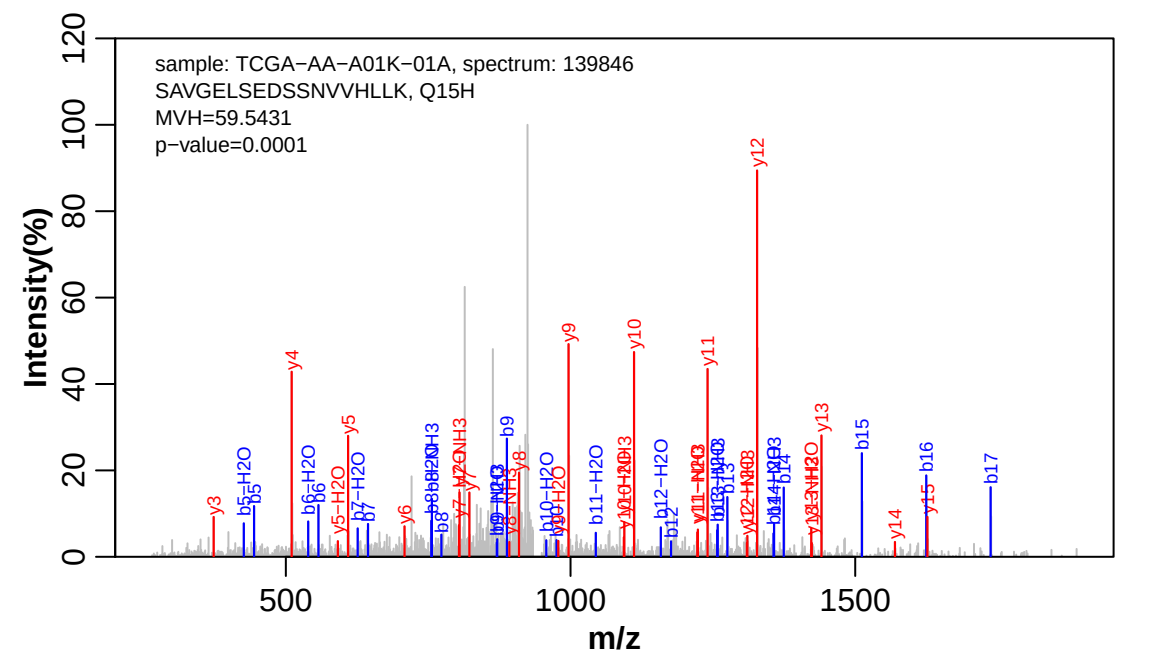

sample: TCGA−AA−A01K−01A, spectrum: 70575
NTNSVPETAPAALPETR, K17R
MVH=37.5481
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y4
b13
b5
y5
y7
y10
b12
y2
b4−H2O

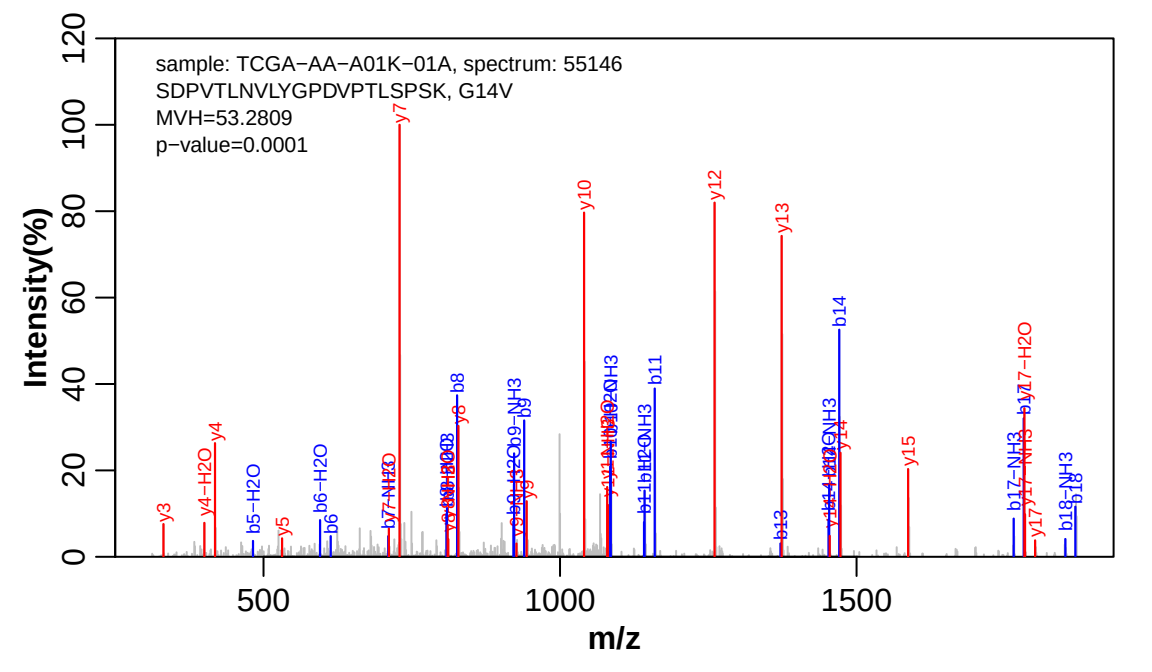

sample: TCGA−AA−A01K−01A, spectrum: 139279
QEPFLLSGGDDGALK, R1Q
MVH=21.0166
p−value=0.0001
Intensity(%)
m/z
y9
y10−H2O
y10
y13
y14−NH3
b11
y11
y5
y4
b8
y2
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

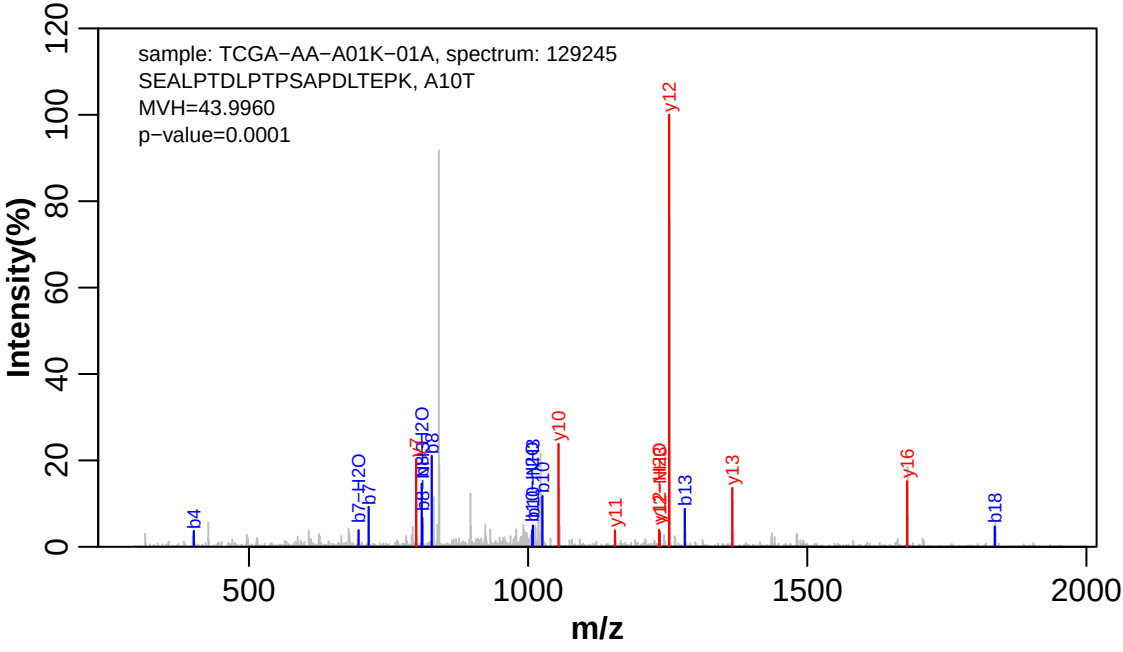

sample: TCGA−AA−A01K−01A, spectrum: 92496
QVTSTASTFVKPLFSR, A2V
MVH=27.8871
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b3−NH3
y6++
y14++
y13++
y12++
y11++
y5
y6
y7
b9−H2O

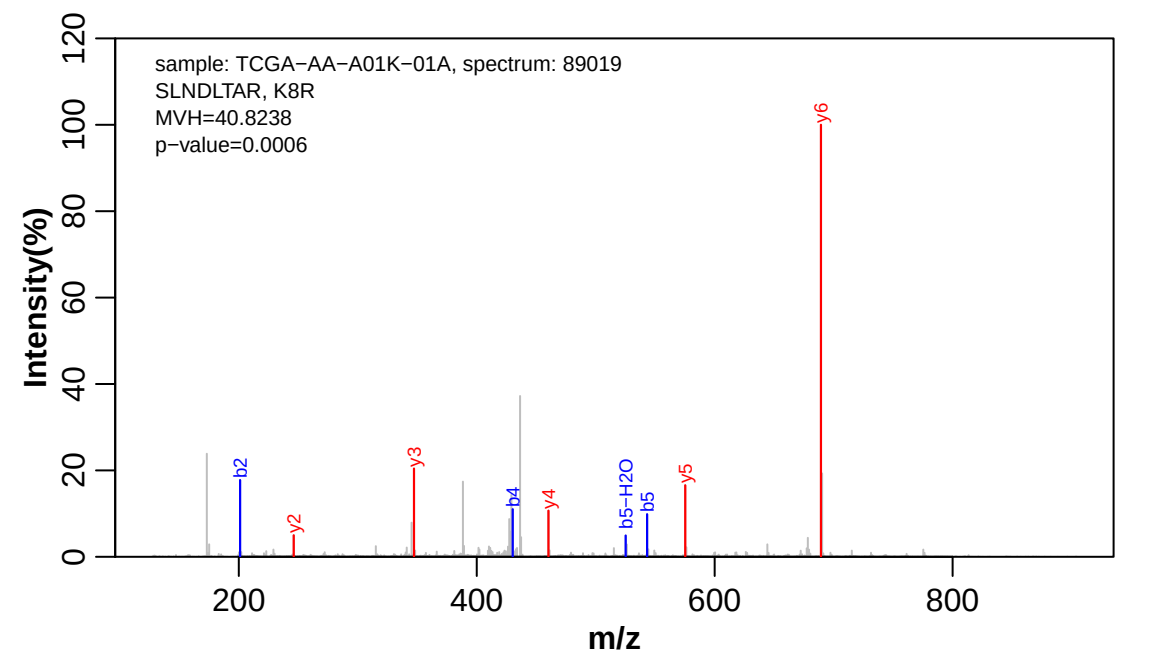

sample: TCGA−AA−A01K−01A, spectrum: 116291
RGDLFYTSK, E2G
MVH=40.8105
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
b3
y3
b4
y4
b5
b6
y6
b7−NH3
b7−H2O
b7
b8−H2O
b8

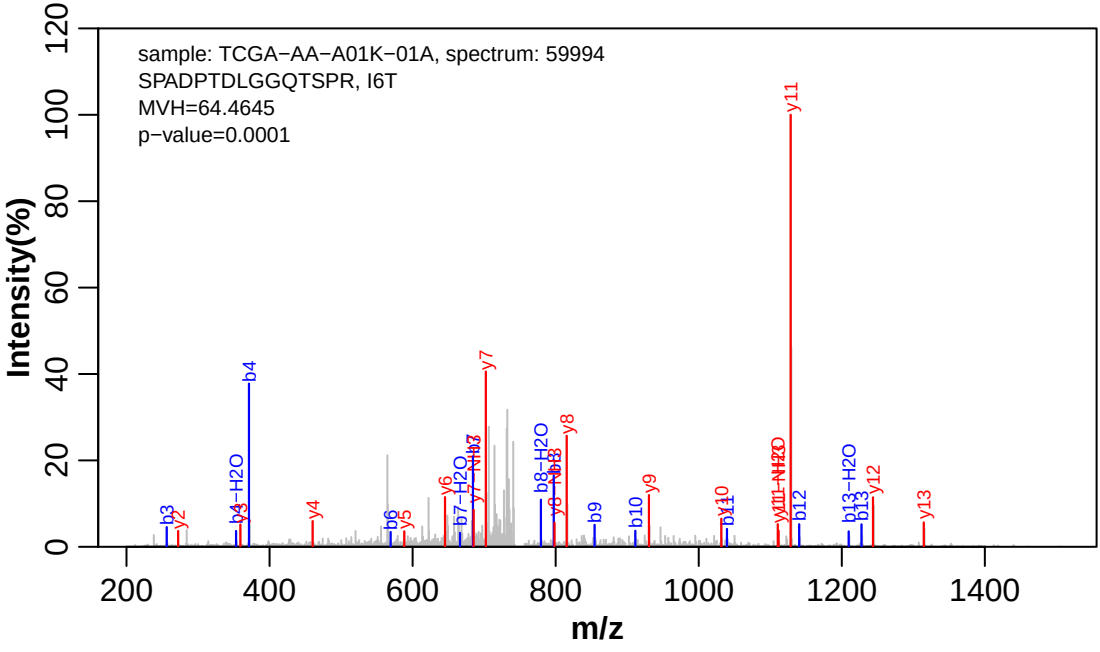

sample: TCGA−AA−A01K−01A, spectrum: 27478
SALSGHLETLLLGLLK, V10L
MVH=77.1828
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y14++
y13++
y14++−H2O
y13++−H2O
y14+++
y5
y4
b12++
b10

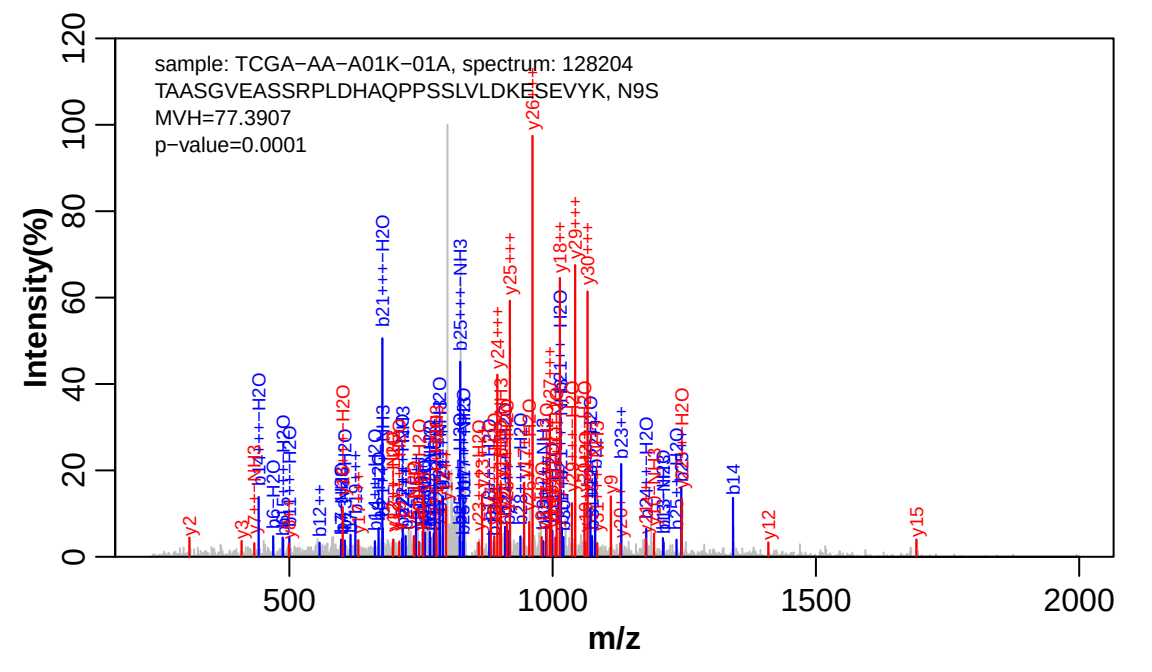

sample: TCGA−AA−A01K−01A, spectrum: 139846
SAVGELSEDSSNVVHLLK, Q15H
MVH=59.5431
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y4
y9
y10
y11
y5
y13
b15
b17
y15
b16
y14
y3
b5−H2O
b6−H2O
b7−H2O
b11−H2O
b12−H2O
b10−H2O
b9
y8
y6

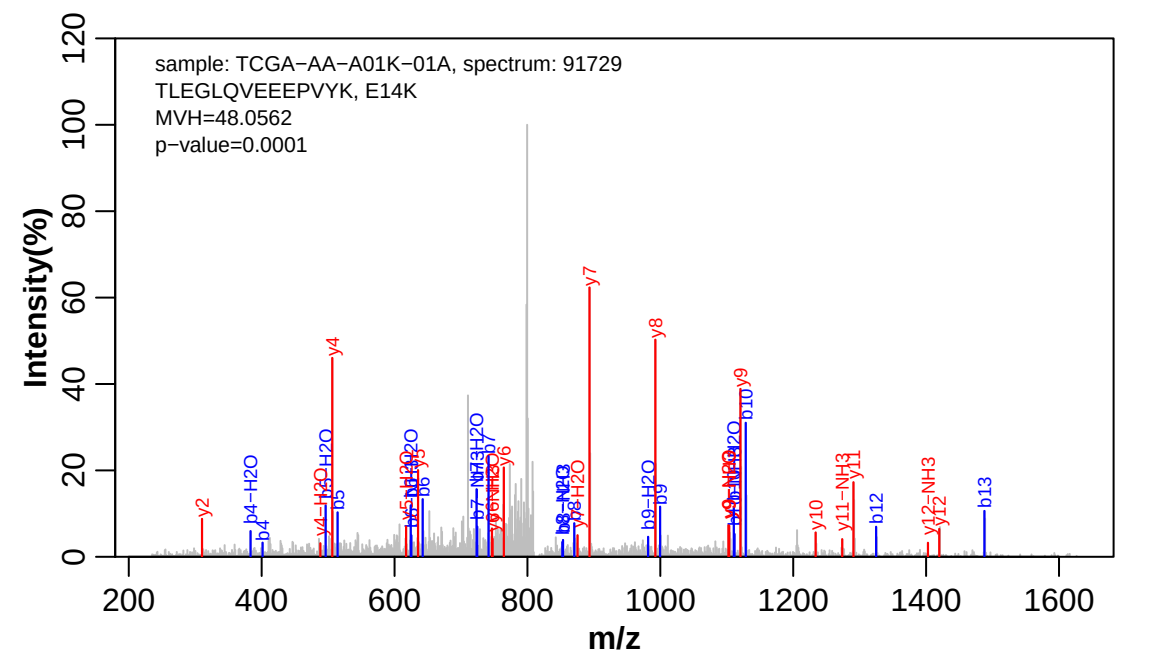

sample: TCGA−AA−A01K−01A, spectrum: 55146
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=53.2809
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y4−H2O
b5−H2O
y5
b6
b6−H2O
b7−NH3
y7
y8
b8
b9−NH3
y9
y10
y12
y13
b11
b14
y14
y15
b17−NH3
b17−H2O
y17
b18−NH3
b18

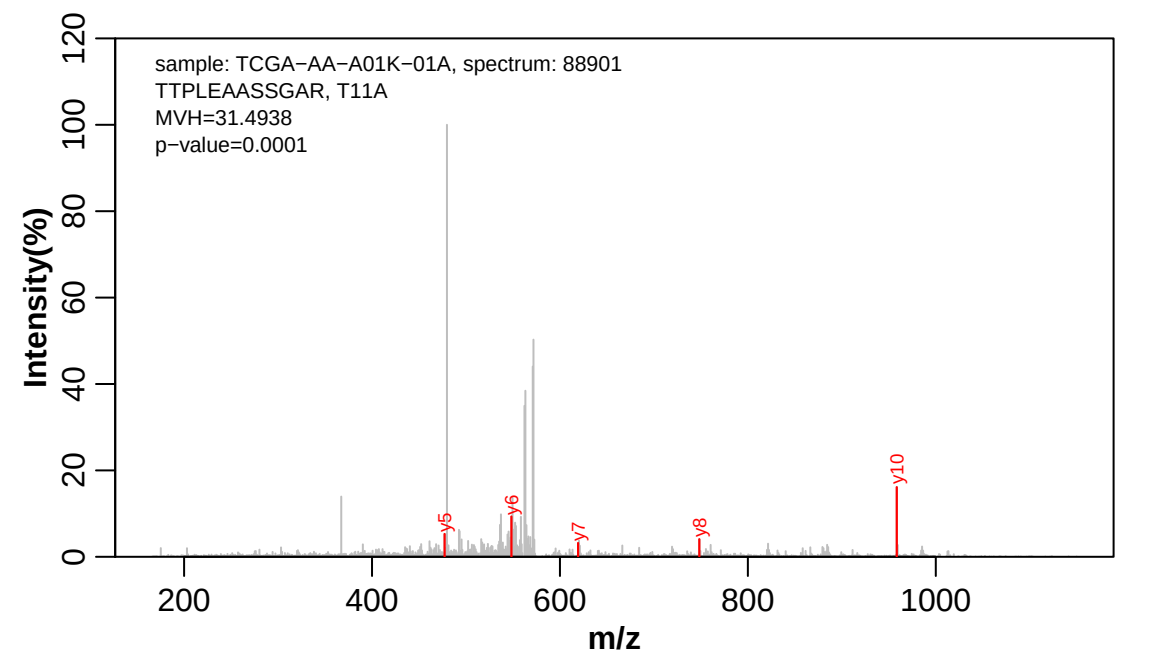

sample: TCGA−AA−A01K−01A, spectrum: 129245
SEALPTDLPTPSAPDLTEPK, A10T
MVH=43.9960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
b7−H2O
b7
b8−NH3
b8
b8−H2O
y7
y10
b10−H2O
b10
y11
y12−NH3
y12−H2O
y12
b13
y13
y16
b18

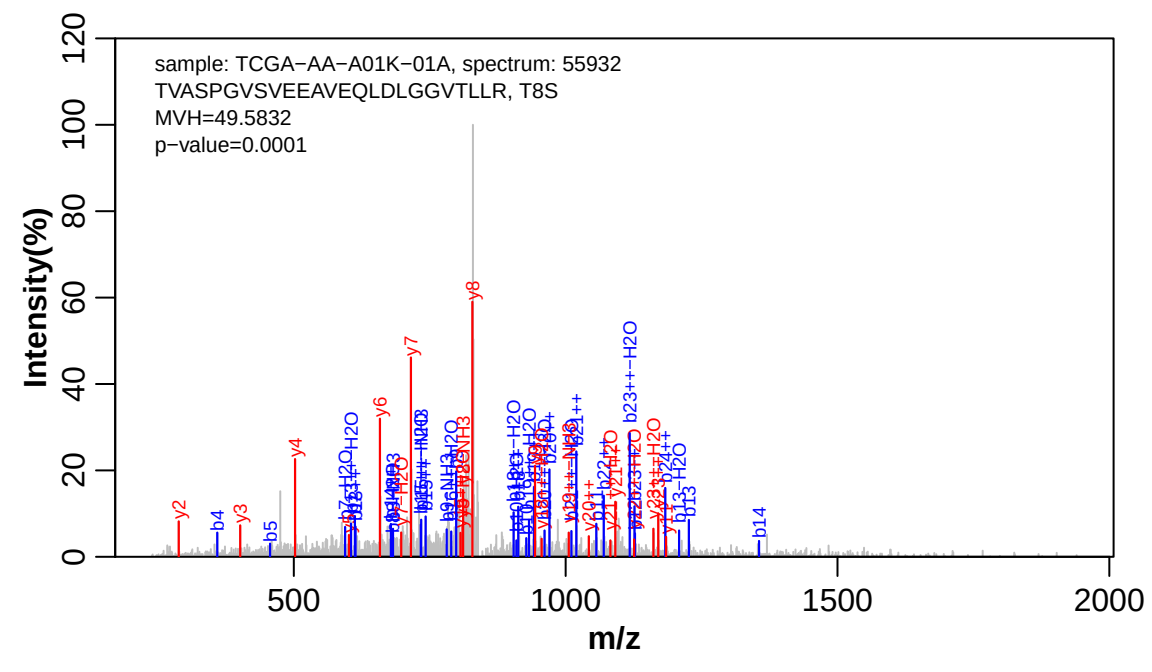

sample: TCGA−AA−A01K−01A, spectrum: 89019
SLNDLTAR, K8R
MVH=40.8238
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
y3
b4
y4
b5−H2O
b5
y5
y6

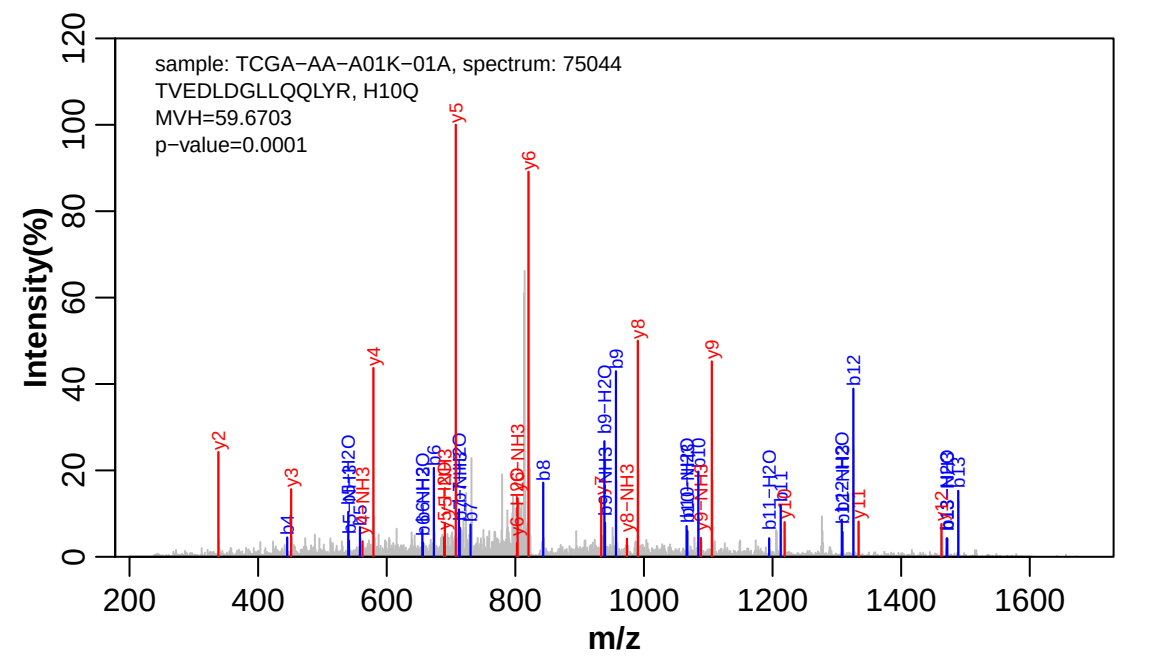

sample: TCGA−AA−A01K−01A, spectrum: 59994
SPADPTDLGGQTSPR, I6T
MVH=64.4645
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4−H2O
b4
y4
b6
y5
b7−H2O
y6
y7
y7−NH3
b8−H2O
b8
y8
y8−NH3
b9
b10
y9
y10
b11
y11−H2O
y11−NH3
y11
b12
b13−H2O
b13
y12
y13

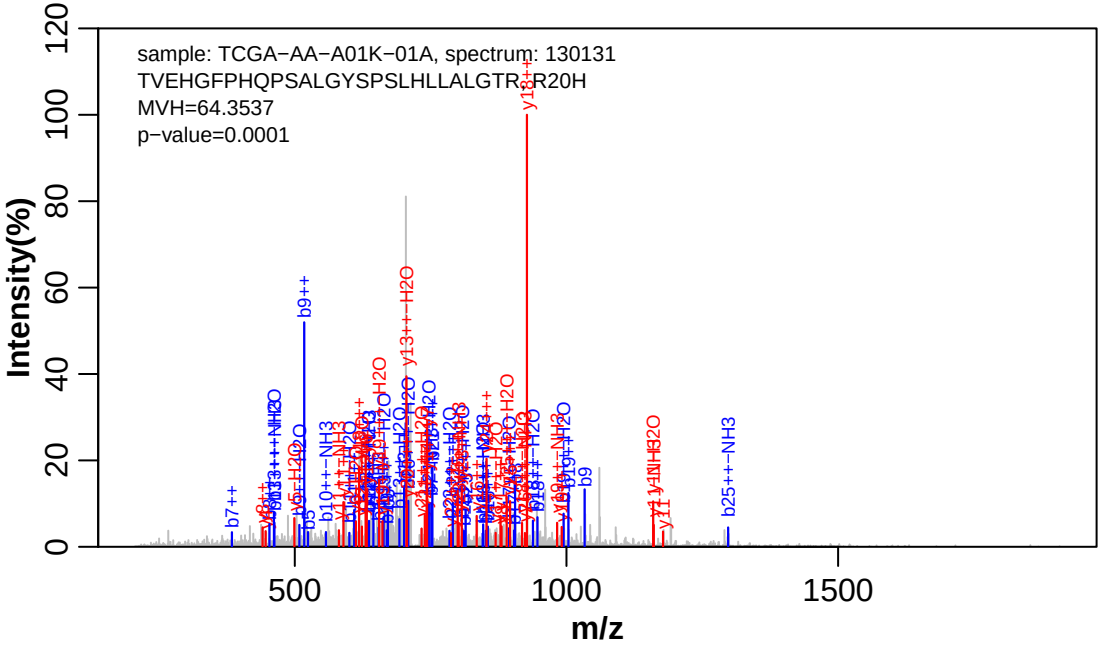

sample: TCGA−AA−A01K−01A, spectrum: 128204
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=77.3907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y26+++
y2
y3
y12++
b14
y12
y15
b23++
y25+++
y24+++
b21+++−H2O
b25+++−NH3
y18++
y29+++
y30+++

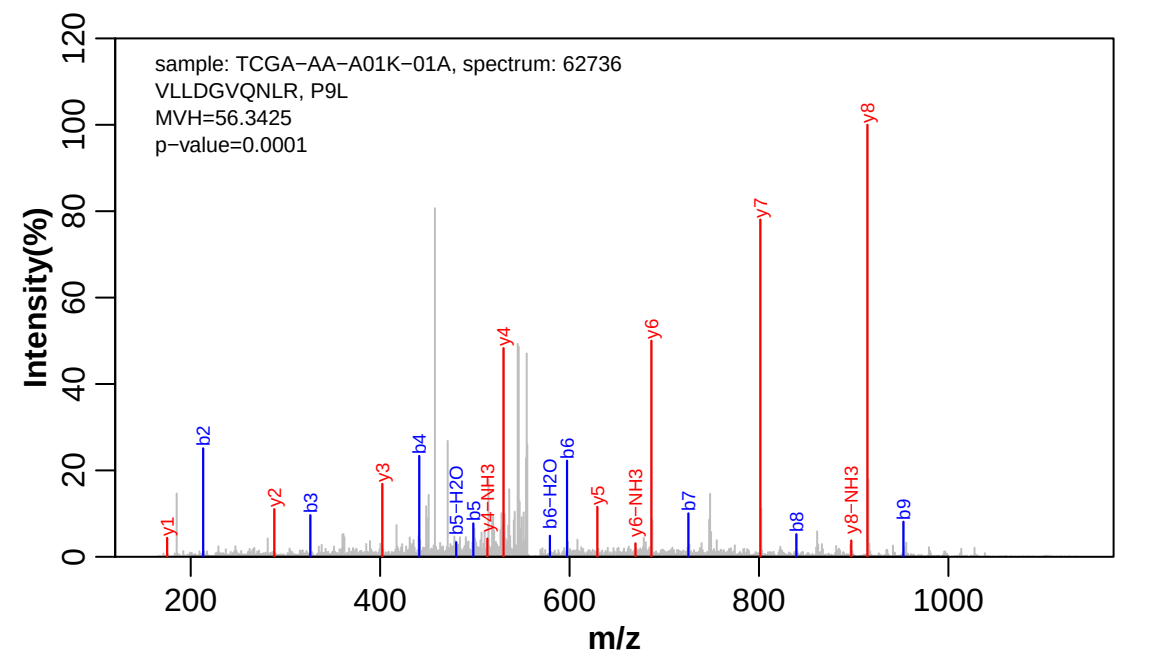

sample: TCGA−AA−A01K−01A, spectrum: 91729
TLEGLQVEEEPVYK, E14K
MVH=48.0562
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b4−H2O
b4
y4
y4−H2O
b5
b5−H2O
y5
b6
y6
b7−NH3
b7−H2O
y7
b8−NH3
b8−H2O
y8
b9−H2O
b9
b10
y9
y10
y11−NH3
y11
b12
y12−NH3
y12
b13

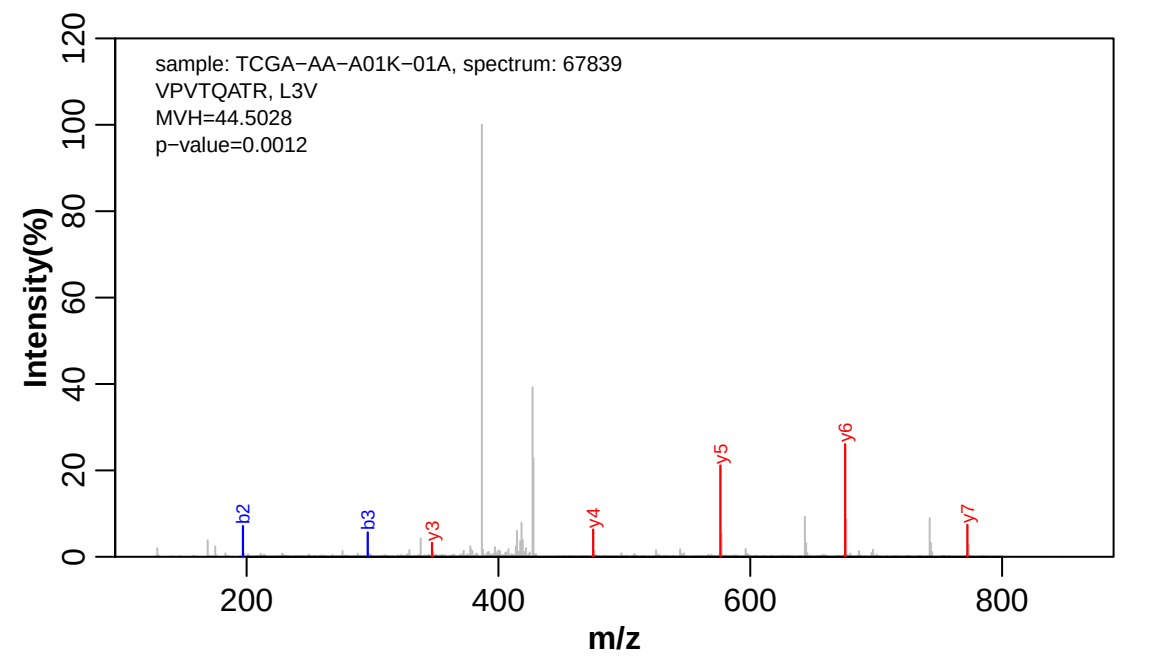

sample: TCGA−AA−A01K−01A, spectrum: 88901
TTPLEAASSGAR, T11A
MVH=31.4938
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

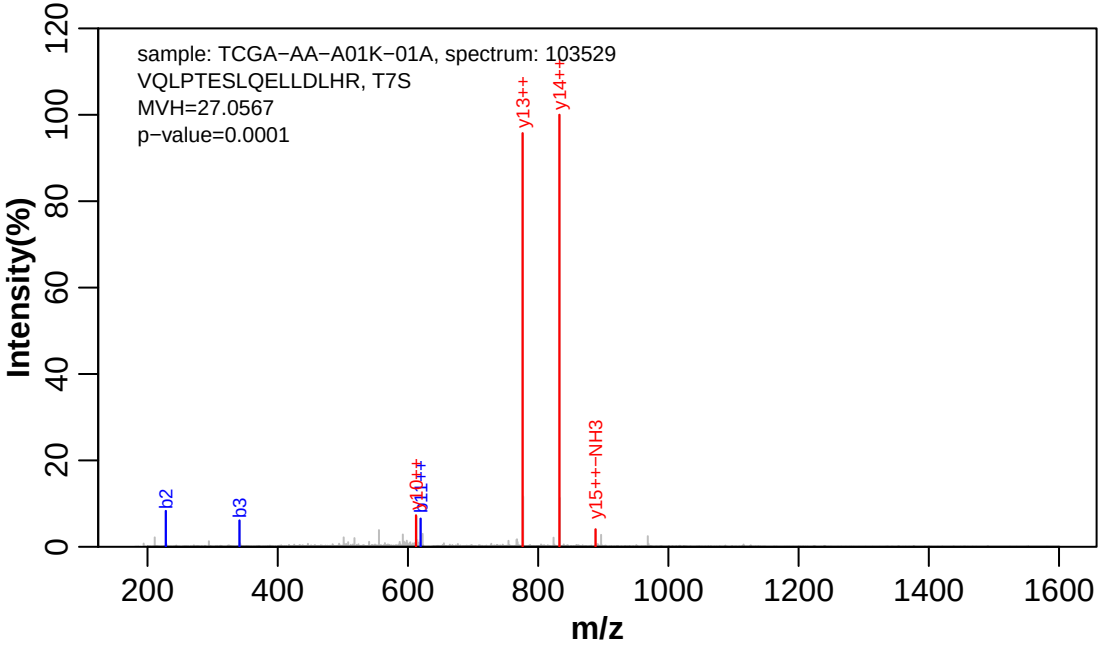

sample: TCGA−AA−A01K−01A, spectrum: 55932
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=49.5832
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
y3
b5
y4
y6
y7
y8
b14

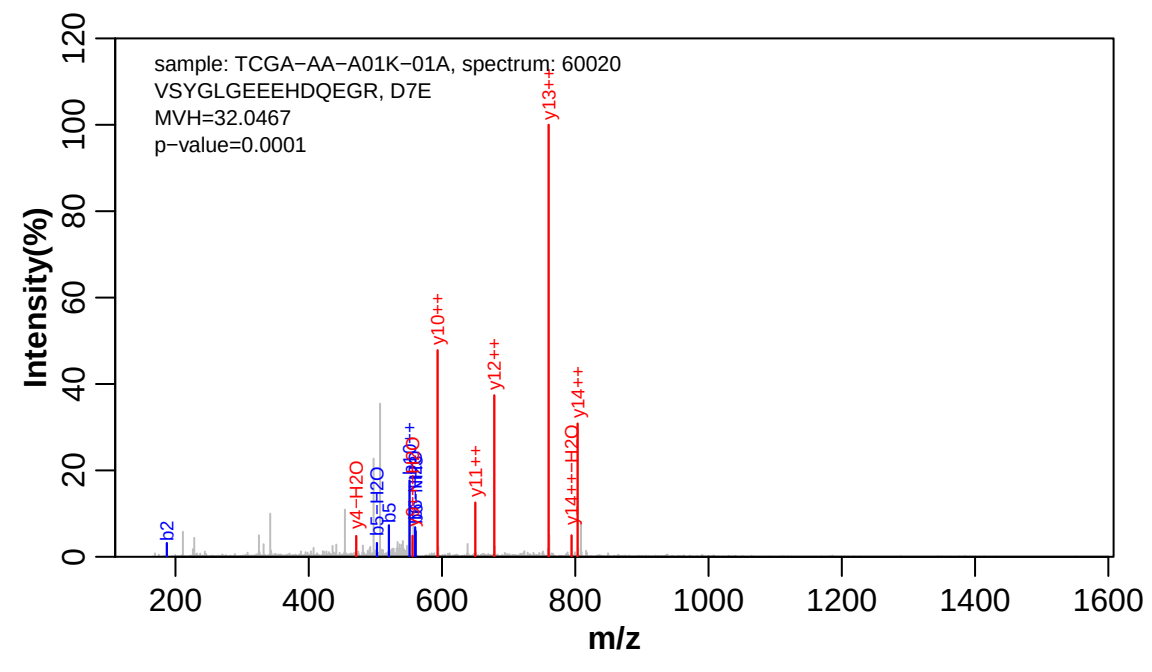

sample: TCGA−AA−A01K−01A, spectrum: 75044
TVEDLDGLLQQLYR, H10Q
MVH=59.6703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
y9
b9
b9−H2O
b8
b12
y6−H2O−NH3
y8−NH3
b11−H2O
b12−NH3
b13
y11
y10
y4−NH3
y5−NH3
b4
b5−NH3
b5−H2O
b6−NH3
b6−H2O
b7
b10−NH3
b10−H2O
b12−H2O
b12−NH2
b13−NH3
b13−H2O
y5−H2O
y5−H2O−NH3
y7−NH3
y7−H2O
y9−NH3
y9−H2O

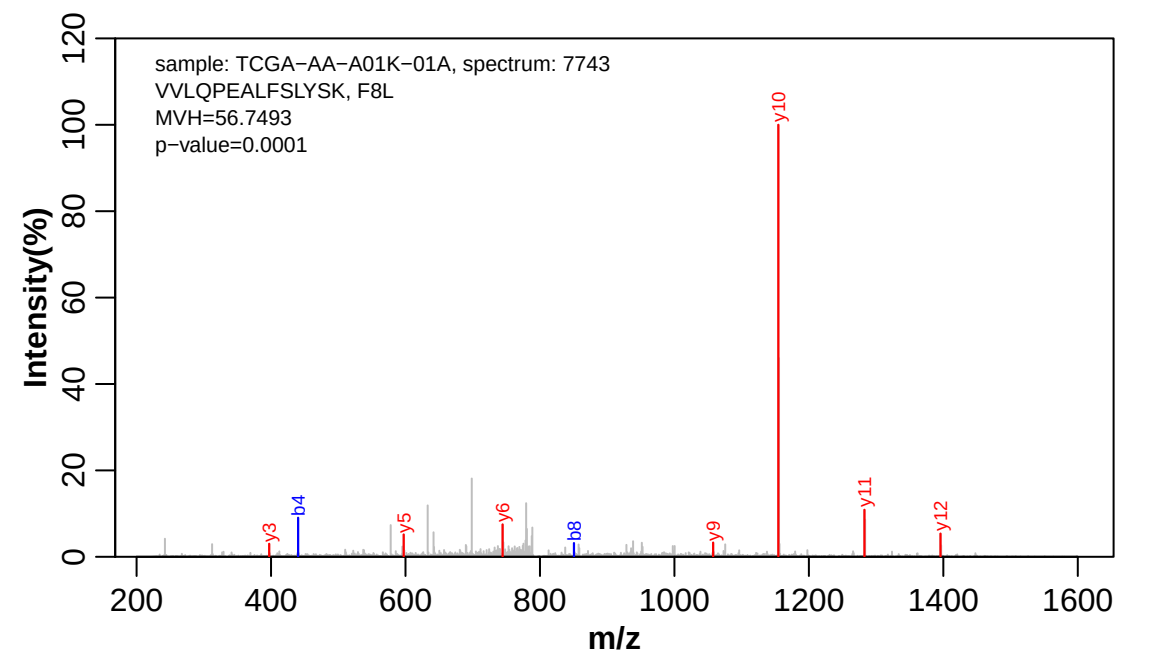

sample: TCGA−AA−A01K−01A, spectrum: 130131
TVEHGFPHQPSALGYSPSLHLLALGTR−R20H
MVH=64.3537
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b7++
b9++
y13++−H2O
y12++
b25++−NH3

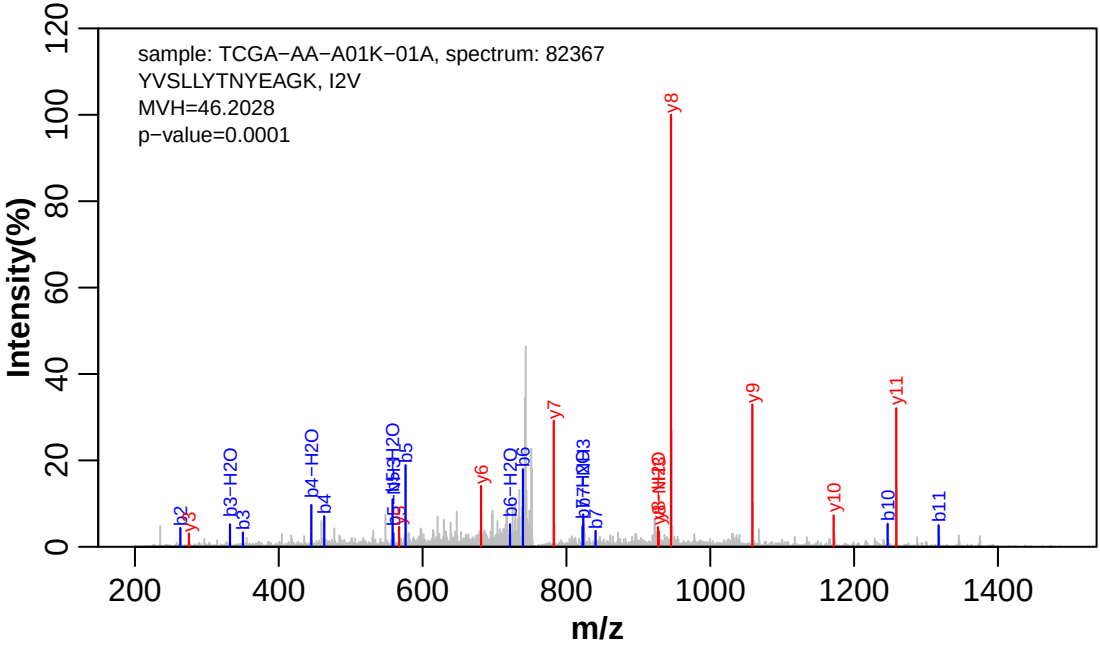

sample: TCGA−AA−A01K−01A, spectrum: 62736
VLLDGVQNLR, P9L
MVH=56.3425
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y2
b3
y3
b4
b5−H2O
b5
y4−NH3
y4
b6−H2O
b6
y5
y6−NH3
y6
b7
b8
y8−NH3
y7
y8
b9

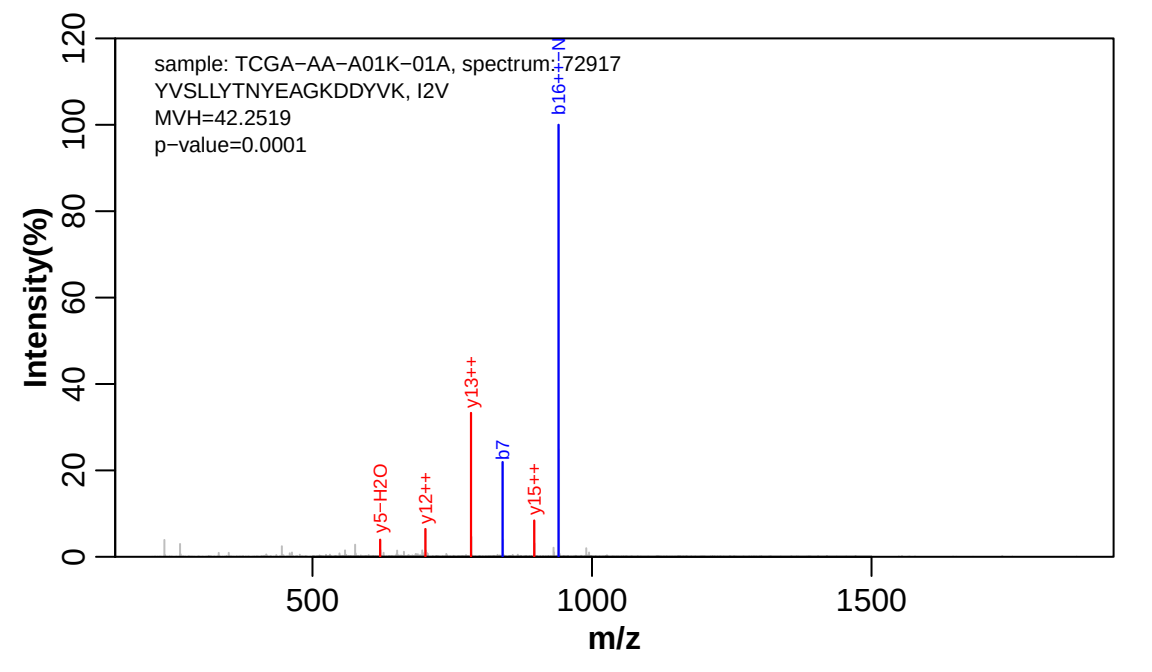

sample: TCGA−AA−A01K−01A, spectrum: 67839
VPVTQATR, L3V
MVH=44.5028
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

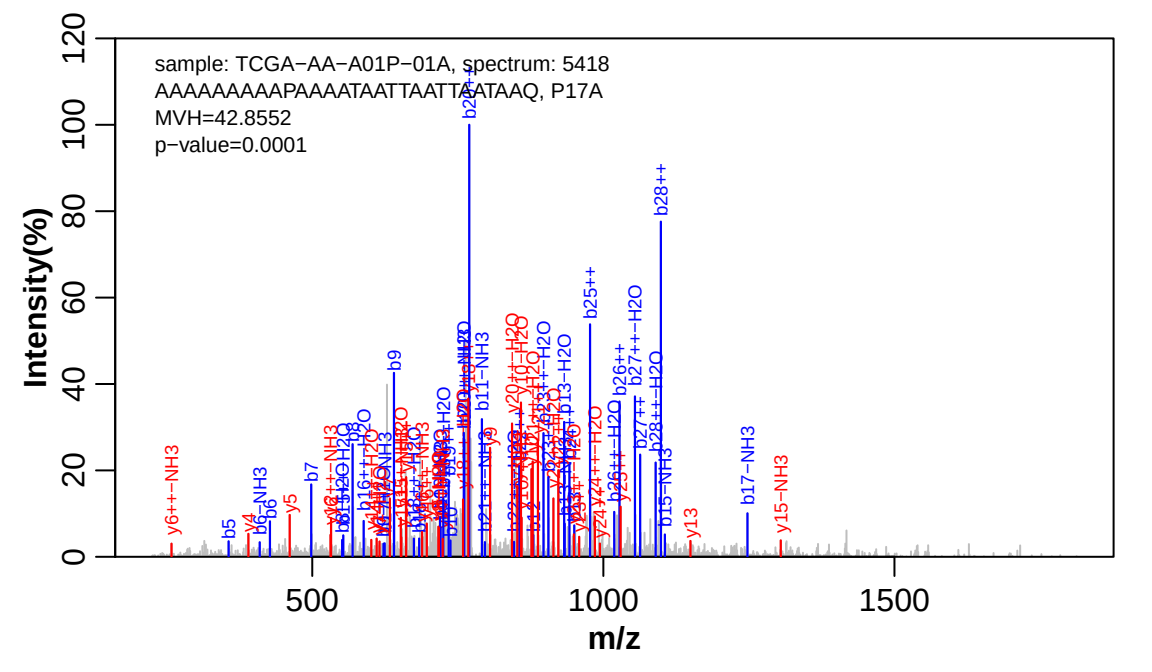

sample: TCGA−AA−A01K−01A, spectrum: 103529
VQLPTESLQELLDLHR, T7S
MVH=27.0567
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

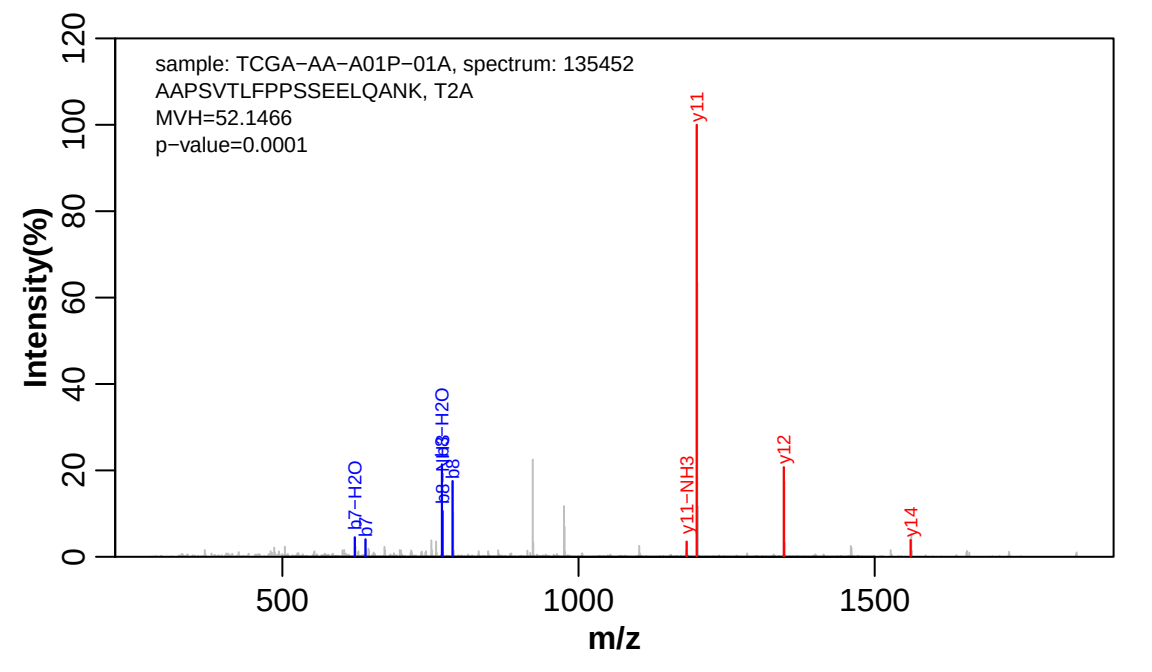

sample: TCGA−AA−A01K−01A, spectrum: 60020
VSYGLGEEEHDQEGR, D7E
MVH=32.0467
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y4−H2O
b5−H2O
b5
y10++
y11++
y12++
y13++
y14++
y14++−H2O

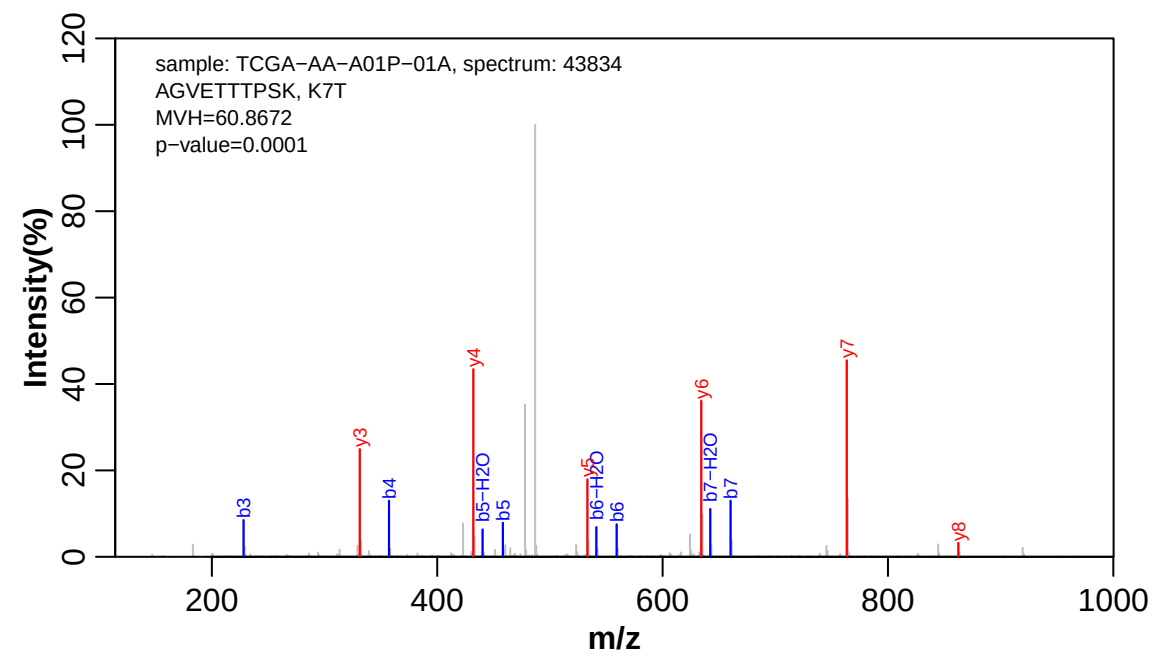

sample: TCGA−AA−A01K−01A, spectrum: 7743
VVLQPEALFSLYSK, F8L
MVH=56.7493
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
y5
y6
b8
y9
y10
y11
y12

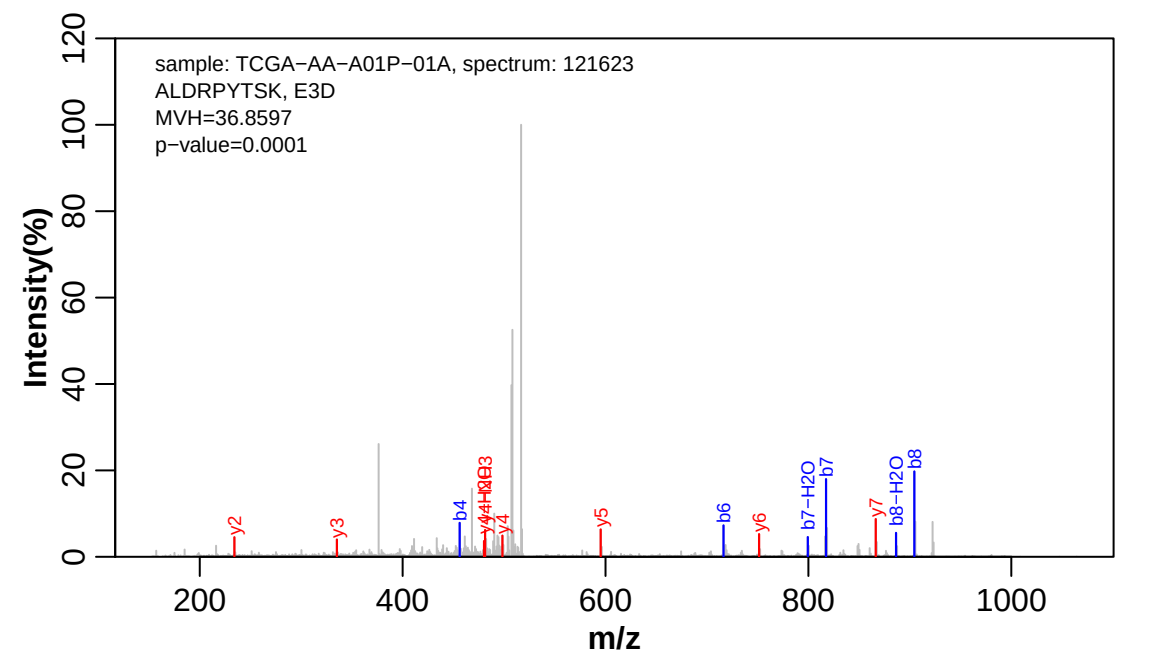

sample: TCGA−AA−A01K−01A, spectrum: 82367
YVSLLYTNYEAGK, I2V
MVH=46.2028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y8
y9
y11
y7
y6
y10
b10
b11
b3−H2O
b4−H2O
b6−H2O
b2
y2
b3
b4
b5
b6
b7

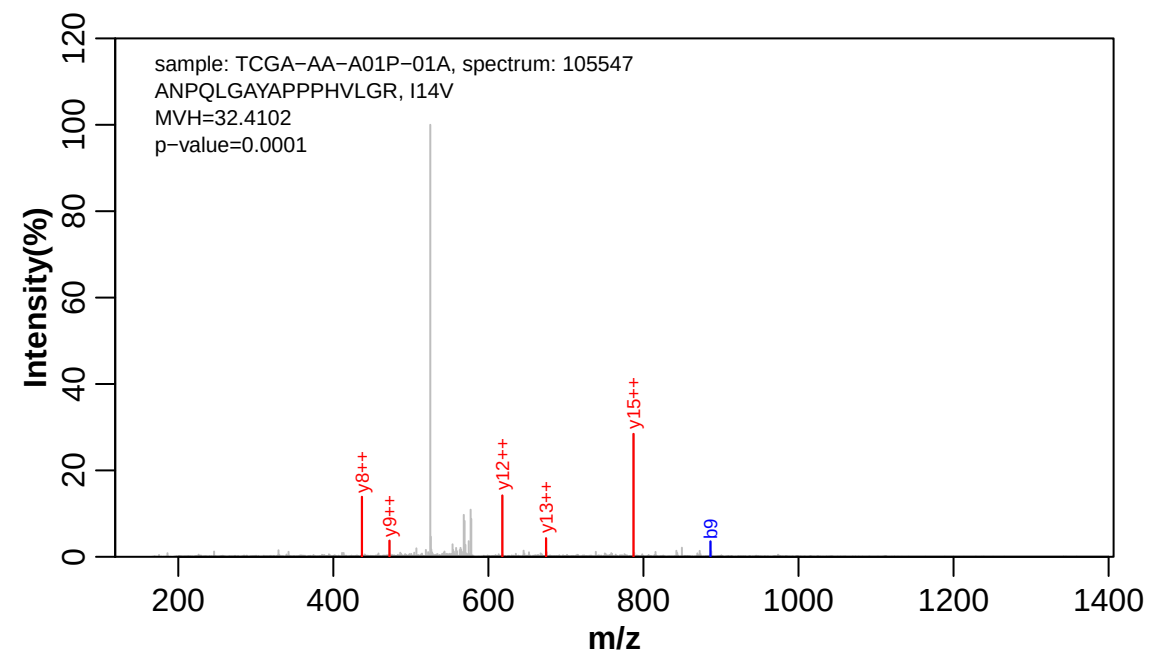

sample: TCGA−AA−A01K−01A, spectrum: 72917
YVSLLYTNYEAGKDDYVK, I2V
MVH=42.2519
p−value=0.0001
b16++−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

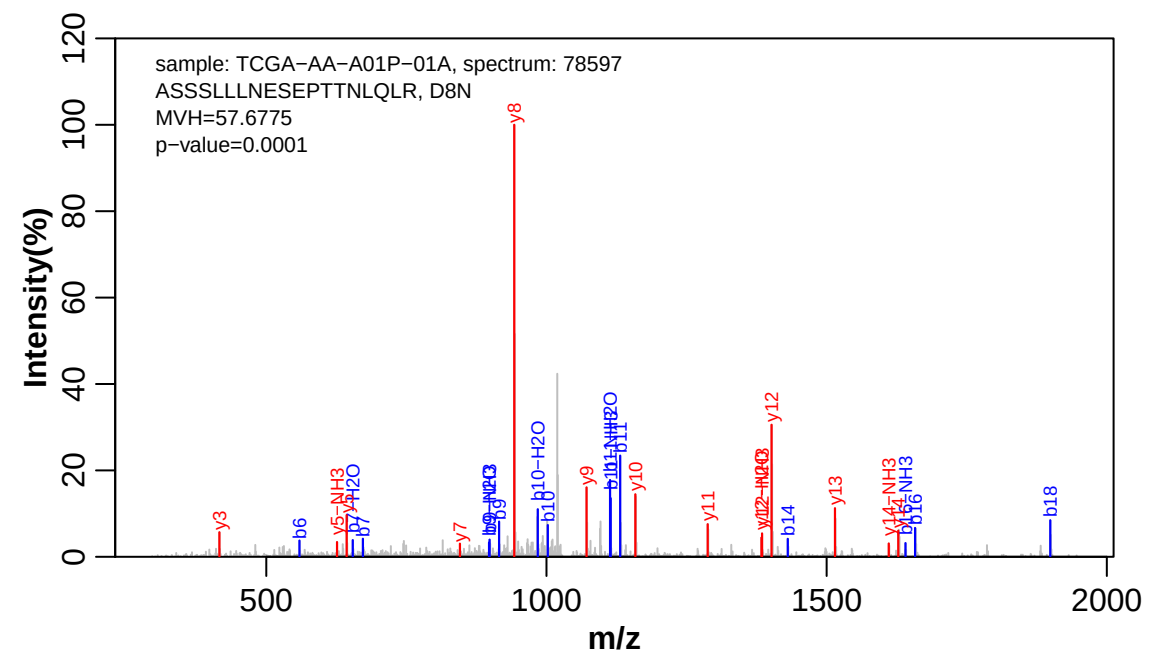

sample: TCGA−AA−A01P−01A, spectrum: 5418
AAAAAAAAAPAAAATAATTAATTATAAAQ, P17A
MVH=42.8552
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
y6++−NH3
b5
y4
b6−NH3
b7
y5
b9
b11−NH3
b25++
b26++
b27++−H2O
b28++−H2O
b28++
b15−NH3
y13
b17−NH3
y15−NH3

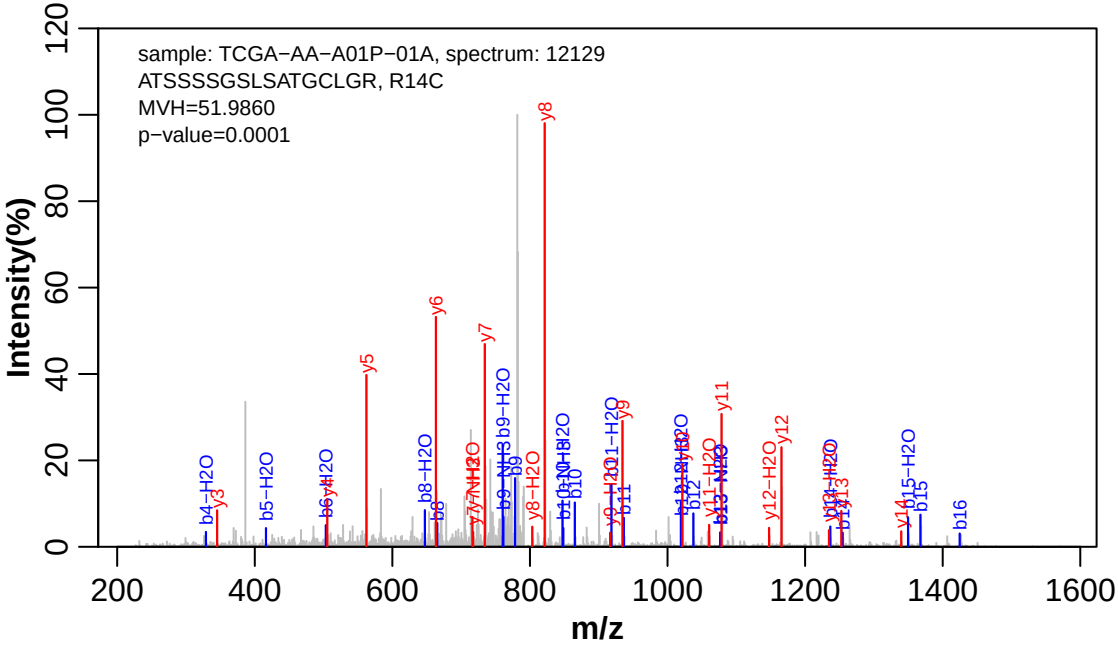

sample: TCGA−AA−A01P−01A, spectrum: 135452
AAPSVTLFPPSSEELQANK, T2A
MVH=52.1466
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y11−NH3
y12
y14
b7−H2O
b7
b8−NH3−H2O
b8

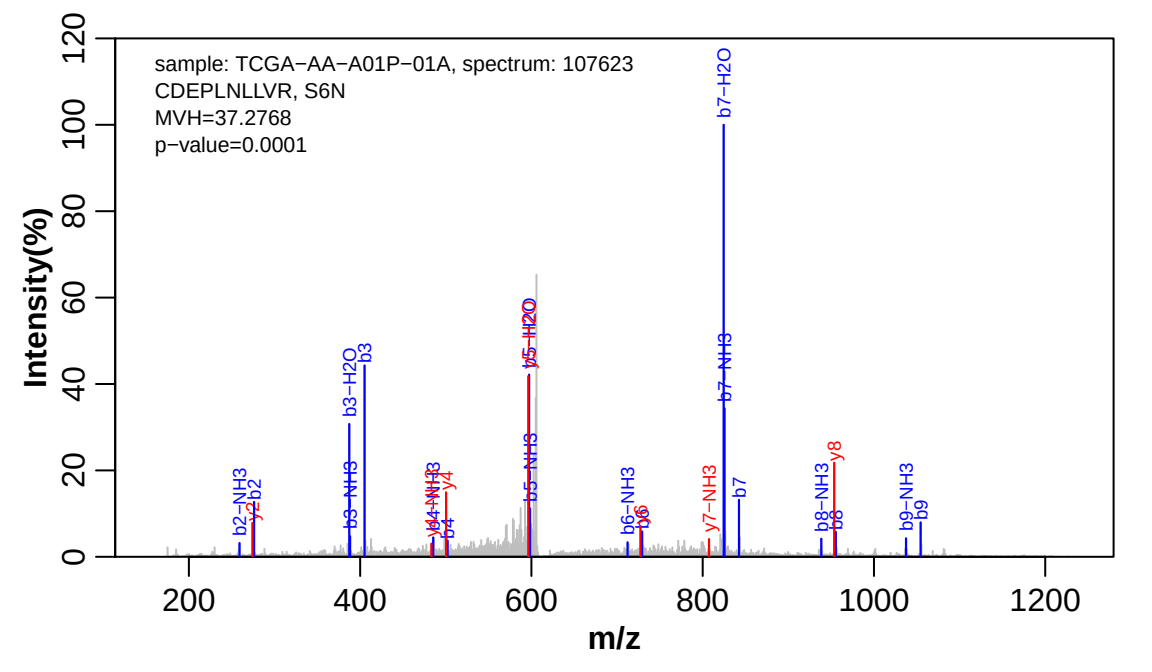

sample: TCGA−AA−A01P−01A, spectrum: 43834
AGVETTTPSK, K7T
MVH=60.8672
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

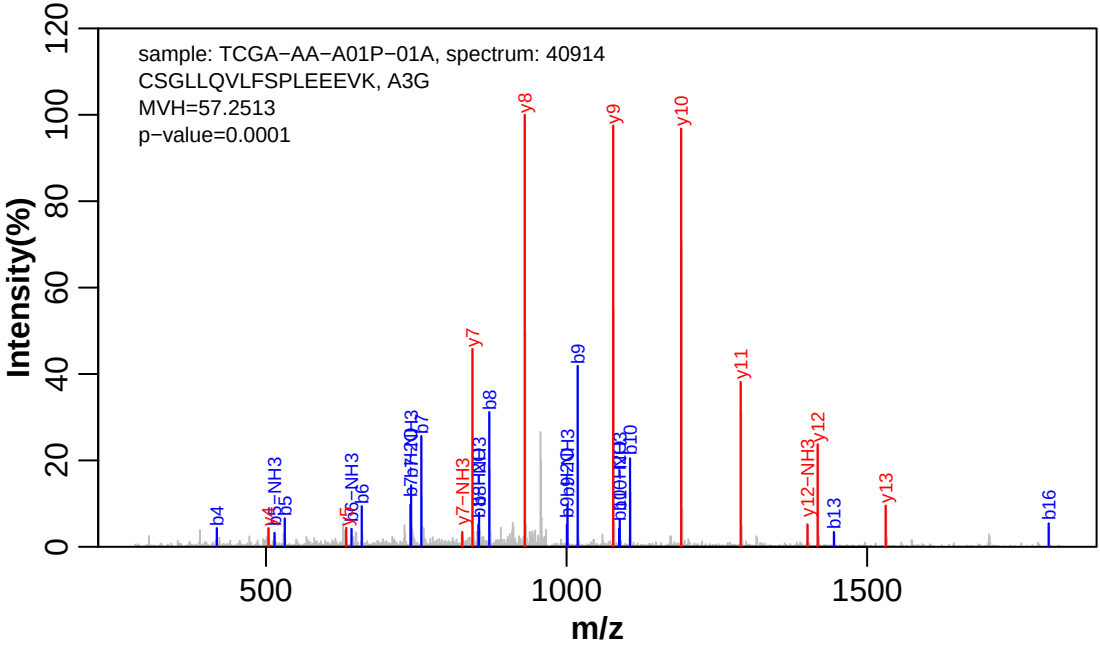

sample: TCGA−AA−A01P−01A, spectrum: 121623
ALDRPYTSK, E3D
MVH=36.8597
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
y3
b4
y4
y5
b6
y6
b7−H2O
b7
y7
b8−H2O
b8

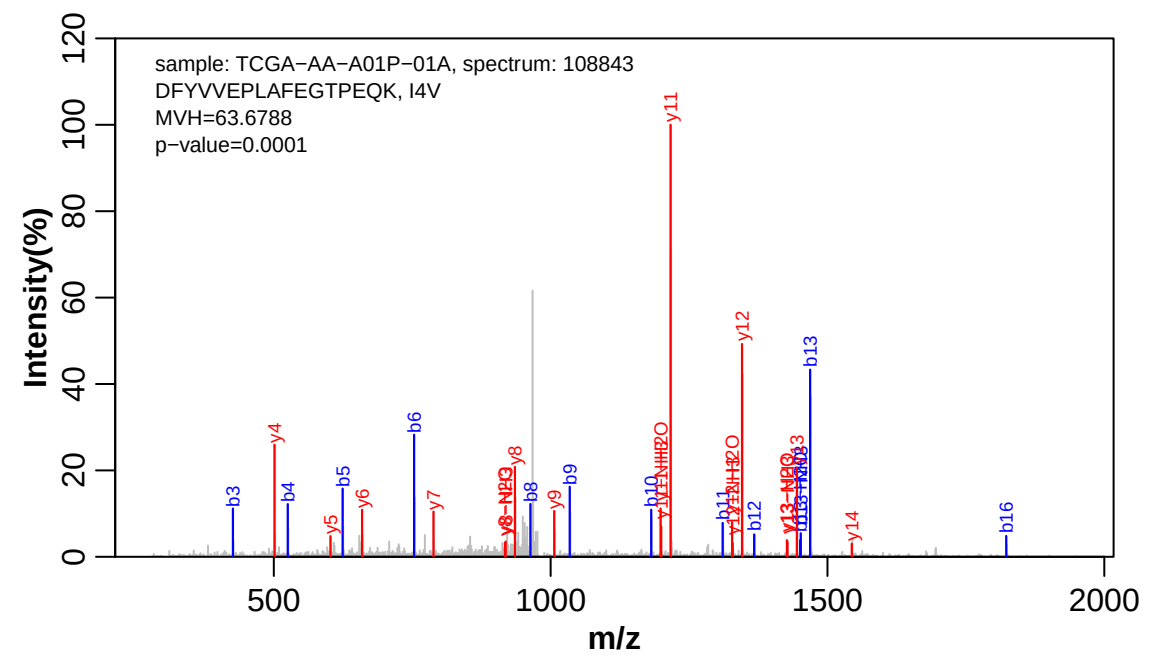

sample: TCGA−AA−A01P−01A, spectrum: 105547
ANPQLGAYAPPPHVLGR, I14V
MVH=32.4102
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y8++
y9++
y12++
y13++
y15++
b9

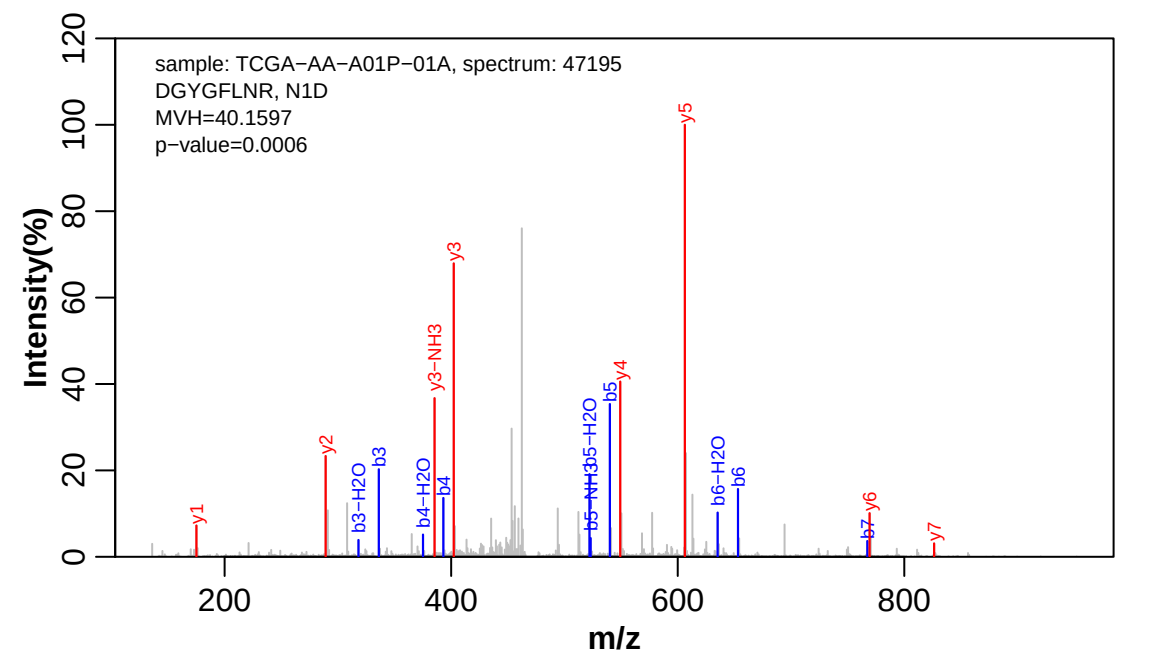

sample: TCGA−AA−A01P−01A, spectrum: 78597
ASSSLLLNESEPTTNLQLR, D8N
MVH=57.6775
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y12
y10
y9
y11
y13
y7
y3
y5−NH3
y4−H2O
b6
b7
b10−H2O
b14
b16
b18

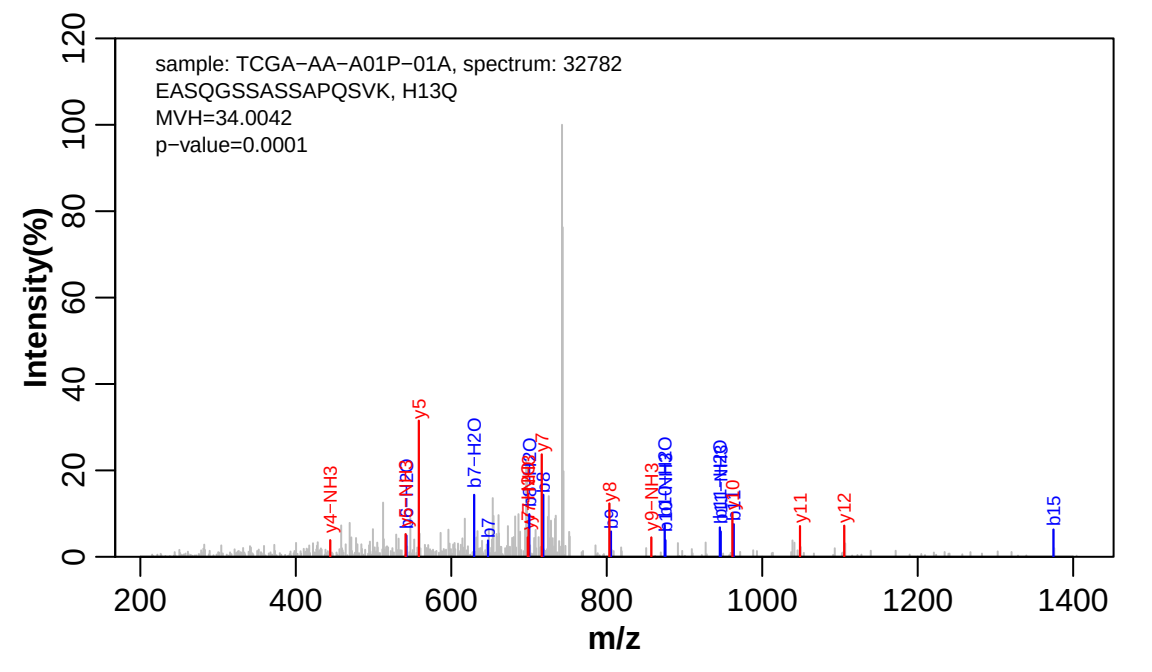

sample: TCGA−AA−A01P−01A, spectrum: 12129
ATSSSSGSLSATGCLGR, R14C
MVH=51.9860
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y6
y5
y7
b9−H2O
y8−H2O
y9
y11
y12
y12−H2O
b15−H2O
b16
b4−H2O
y3
b5−H2O
b6−H2O
b8−H2O
b8
b10
b11
y11−H2O
b15

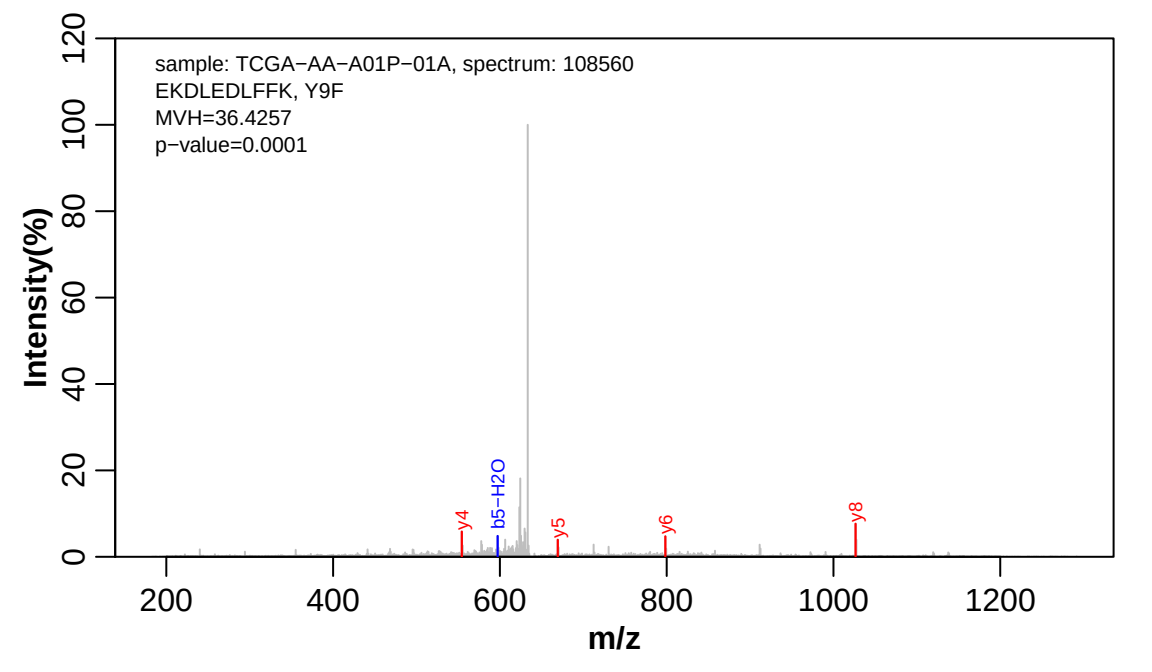

sample: TCGA−AA−A01P−01A, spectrum: 107623
CDEPLNLLVR, S6N
MVH=37.2768
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
y2
b2
b3−H2O
b3
b3−NH3
y4
b4
y5−H2O
b5−NH3
b6−NH3
b6
y7−NH3
b7−H2O
b7−NH3
b7
b8−NH3
y8
b8
b9−NH3
b9

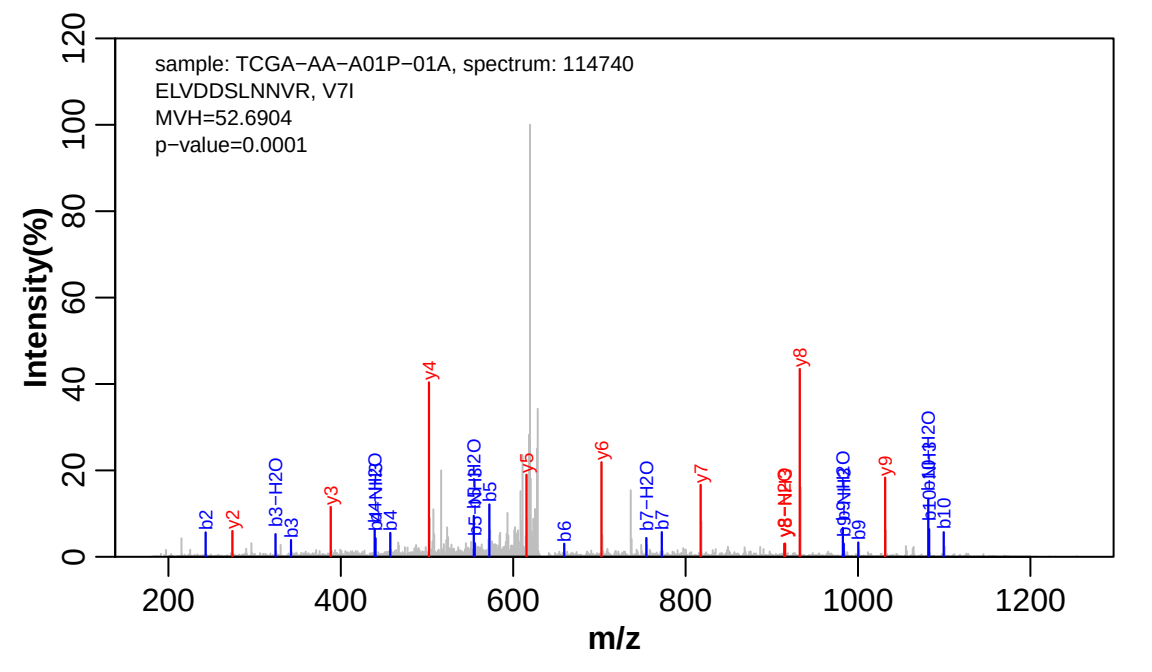

sample: TCGA−AA−A01P−01A, spectrum: 40914
CSGLLQVLFSPLEEEVK, A3G
MVH=57.2513
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y8
y9
y10
y7
y11
b9
b8
y12
y12−NH3
y13
b16
b4
b5
b6
y7−NH3

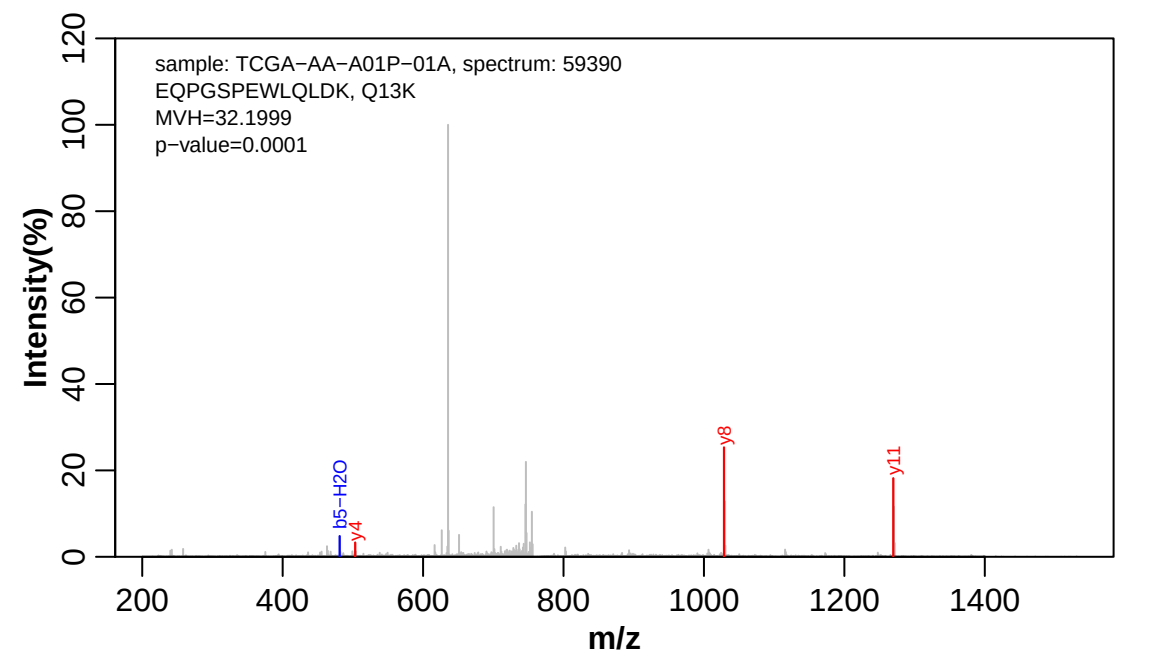

sample: TCGA−AA−A01P−01A, spectrum: 108843
DFYVVEPLAFEGTPEQK, I4V
MVH=63.6788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6
b6
y7
b8
y8
y9
b9
b10
b11
y12
b12
b13
y14
b16
y11

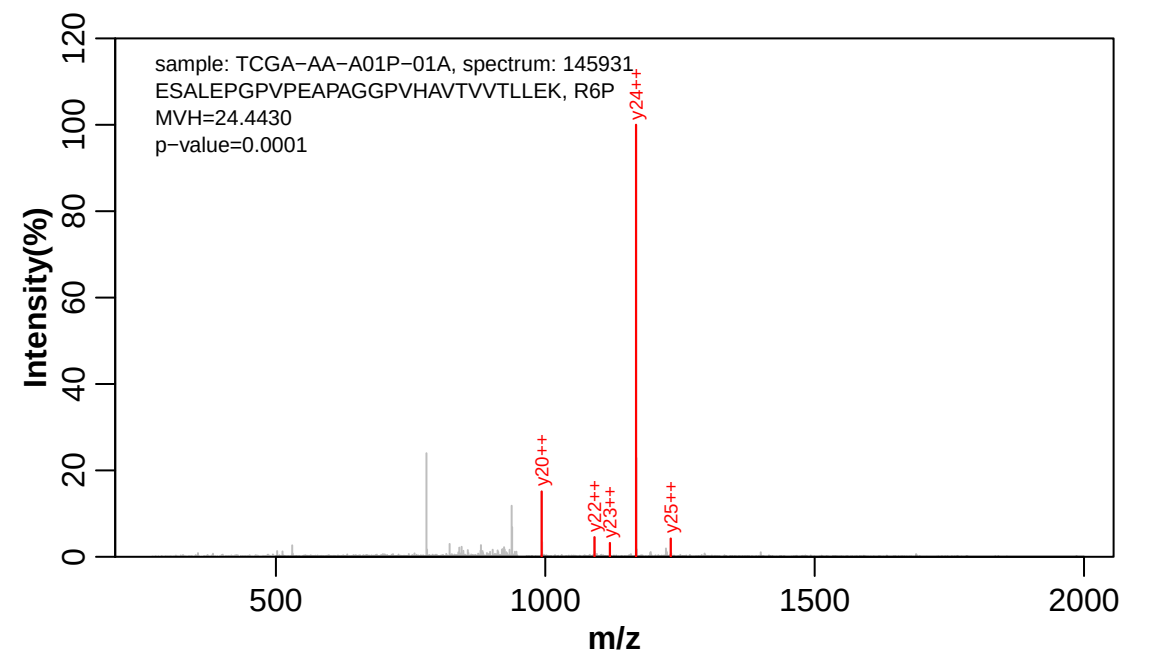

sample: TCGA−AA−A01P−01A, spectrum: 47195
DGYGFLNR, N1D
MVH=40.1597
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6
y7

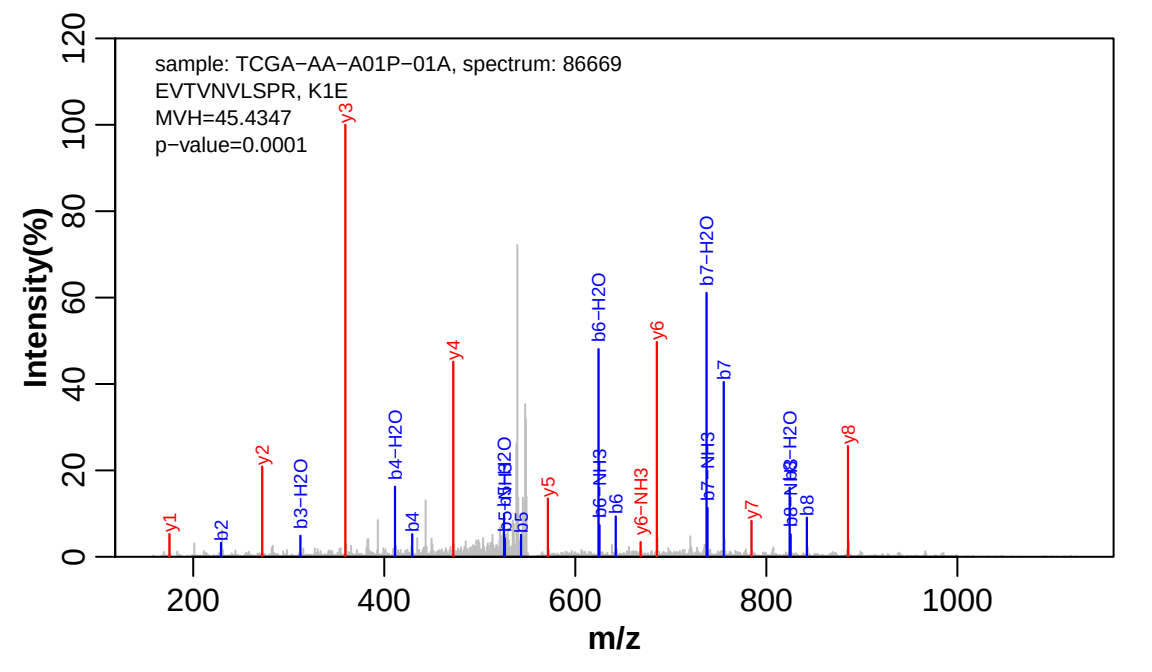

sample: TCGA−AA−A01P−01A, spectrum: 32782
EASQGSSASSAPQSVK, H13Q
MVH=34.0042
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4−NH3
y5
b7−H2O
b7
y7
b8
b9−y8
y9−NH3
y11
y12
b15

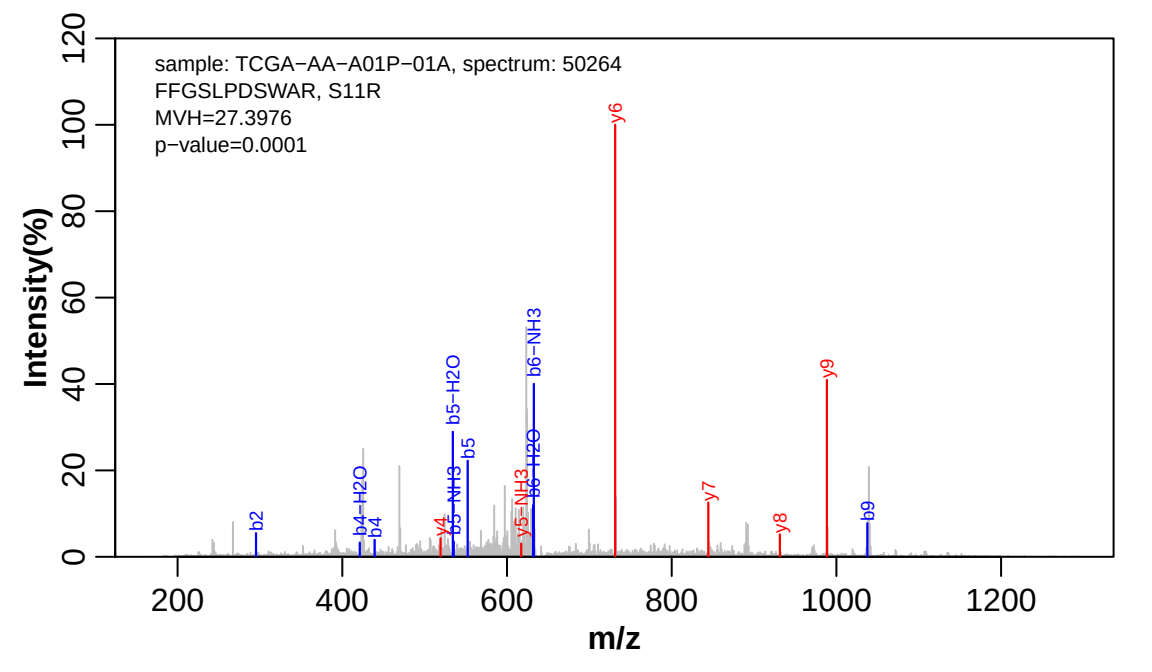

sample: TCGA−AA−A01P−01A, spectrum: 108560
EKDLEDLFFK, Y9F
MVH=36.4257
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y4
b5−H2O
y5
y6
y8

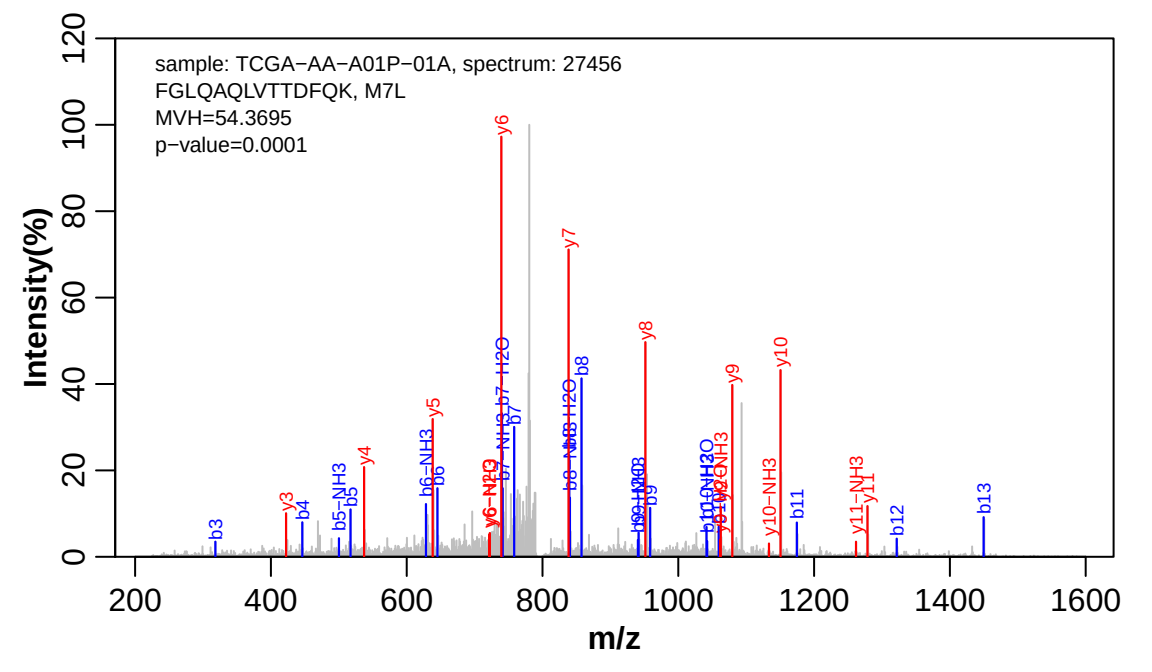

sample: TCGA−AA−A01P−01A, spectrum: 114740
ELVDDSLNNVR, V7I
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
y4
b5
y5
b6
y6
b7−H2O
b7
y7
y8
y9
b10
b10−H2O

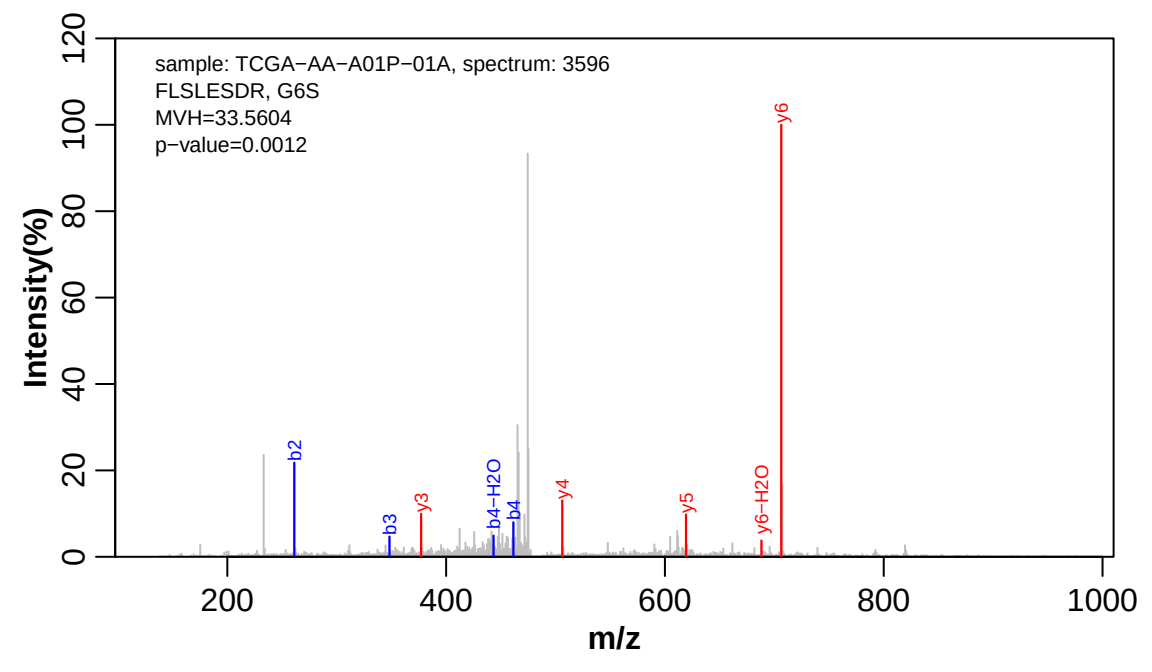

sample: TCGA−AA−A01P−01A, spectrum: 59390
EQPGSPEWLQLDK, Q13K
MVH=32.1999
p−value=0.0001
b5−H2O
y4
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

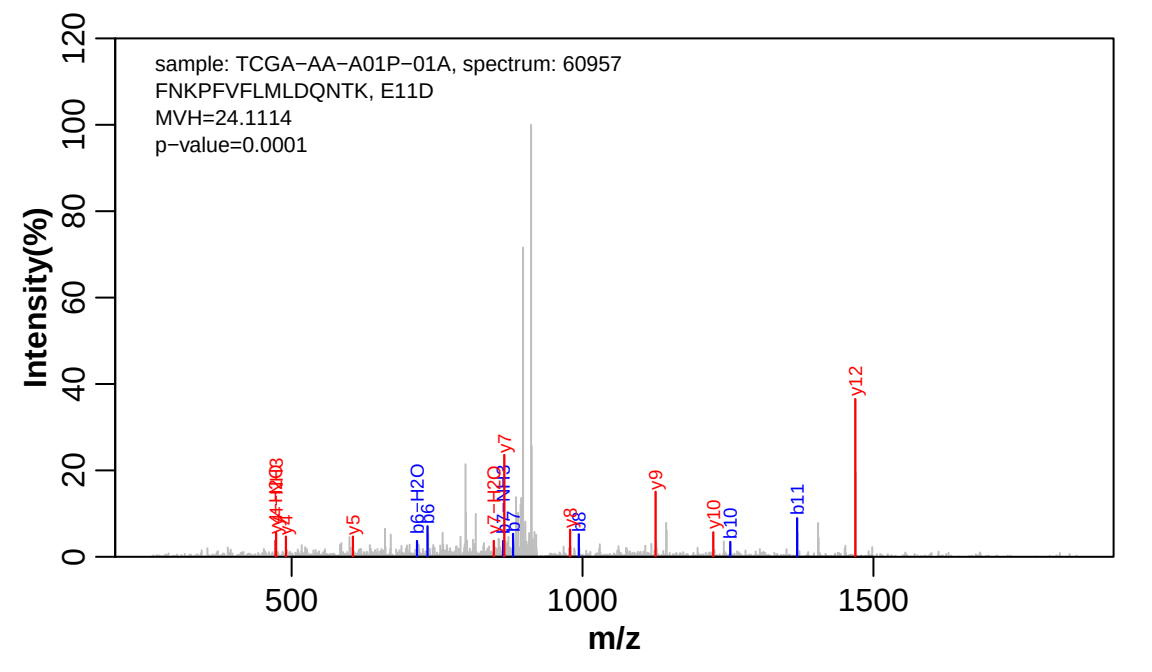

sample: TCGA−AA−A01P−01A, spectrum: 145931
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=24.4430
p−value=0.0001
y24++
y20++
y22++
y23++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

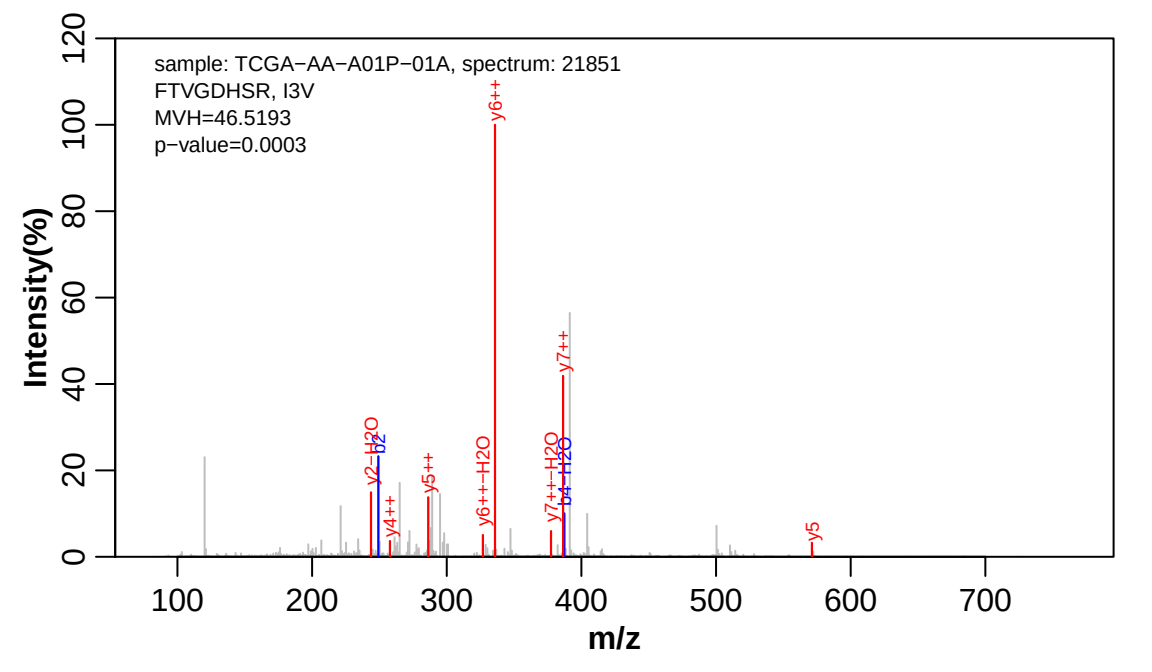

sample: TCGA−AA−A01P−01A, spectrum: 86669
EVTVNVLSPR, K1E
MVH=45.4347
p−value=0.0001
Intensity(%)
m/z
y1
b2
y2
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−NH3
b6
b6−H2O
y6
y6−NH3
b7−NH3
b7
b7−H2O
y7
b8
y8

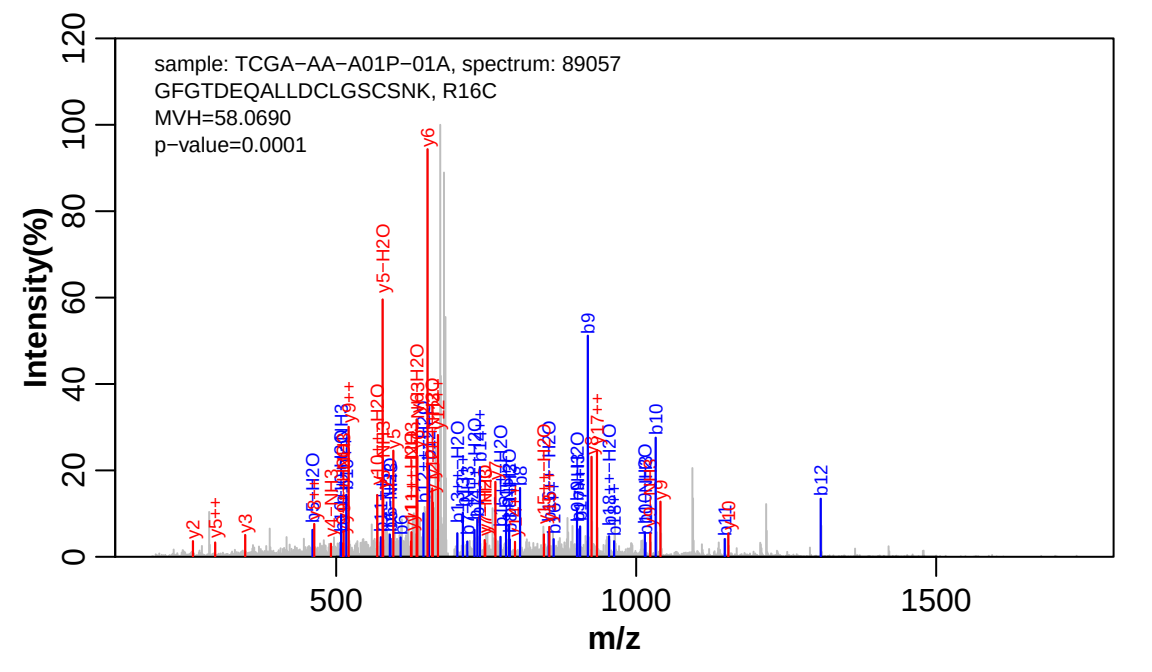

sample: TCGA−AA−A01P−01A, spectrum: 50264
FFGSLPDSWAR, S11R
MVH=27.3976
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
b6−H2O
b6−NH3
y6
y7
y8
y9
b9

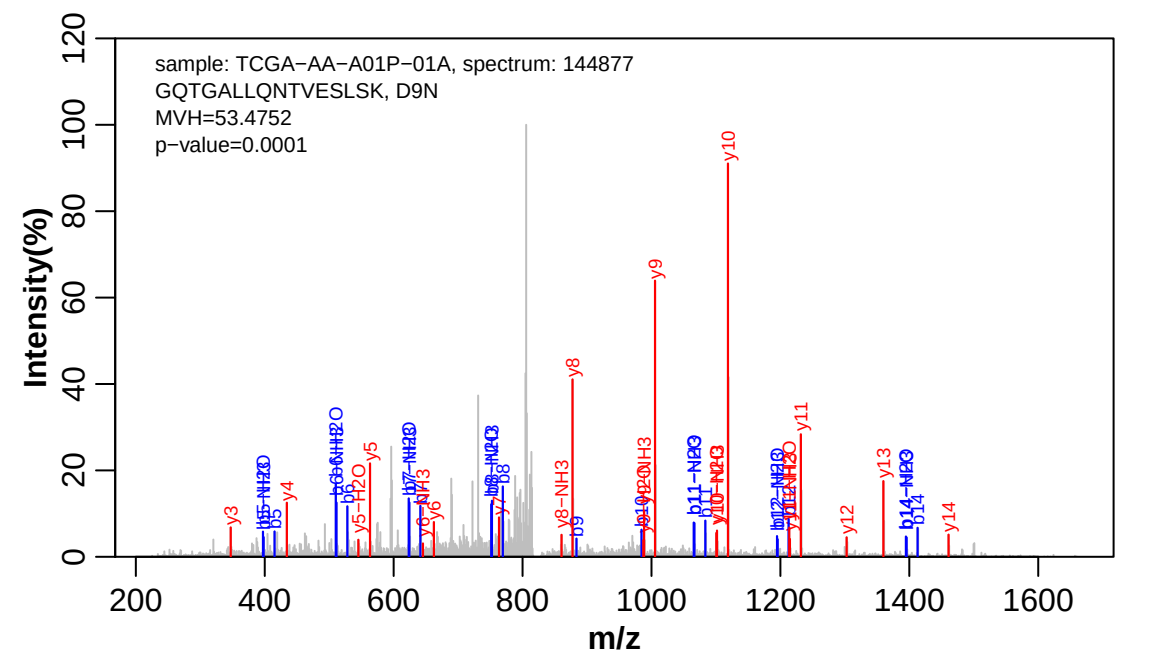

sample: TCGA−AA−A01P−01A, spectrum: 27456
FGLQAQLVTTDFQK, M7L
MVH=54.3695
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y9
y5
y4
y3
b3
b4
b5
b5−NH3
b6
b6−NH3
b7
b7−H2O
b8
b8−H2O
b9
b11
b12
b13
y10−NH3
y11−NH3
y11

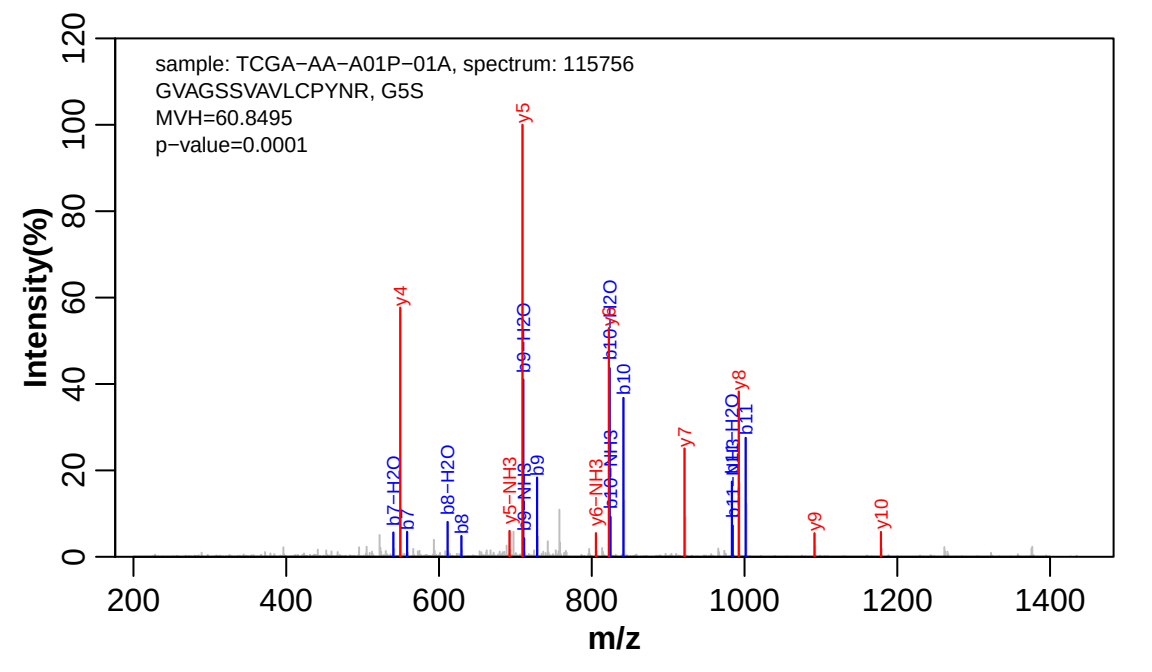

sample: TCGA−AA−A01P−01A, spectrum: 3596
FLSLESDR, G6S
MVH=33.5604
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
y3
b4−H2O
b4
y4
y5
y6−H2O
y6

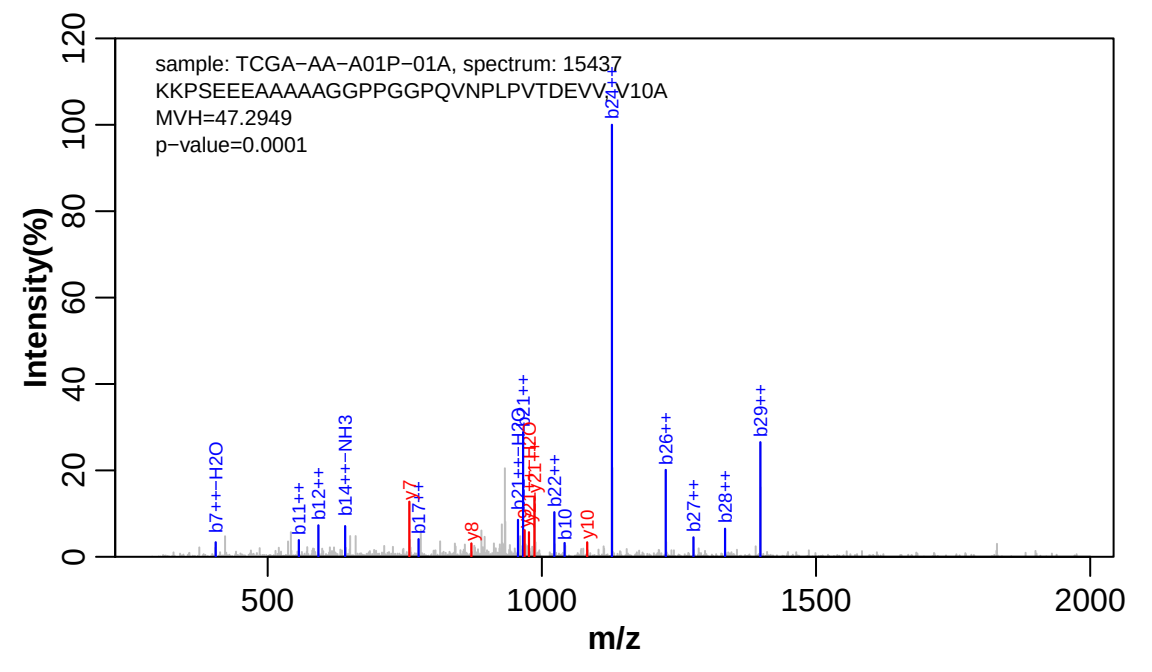

sample: TCGA−AA−A01P−01A, spectrum: 60957
FNKPFVFLMLDQNTK, E11D
MVH=24.1114
p−value=0.0001
Intensity(%)
m/z
y12
y9
y10
b10
b11
y5
y7
b6−H2O
y7−H2O
y7−NH3
b7
y8
b8

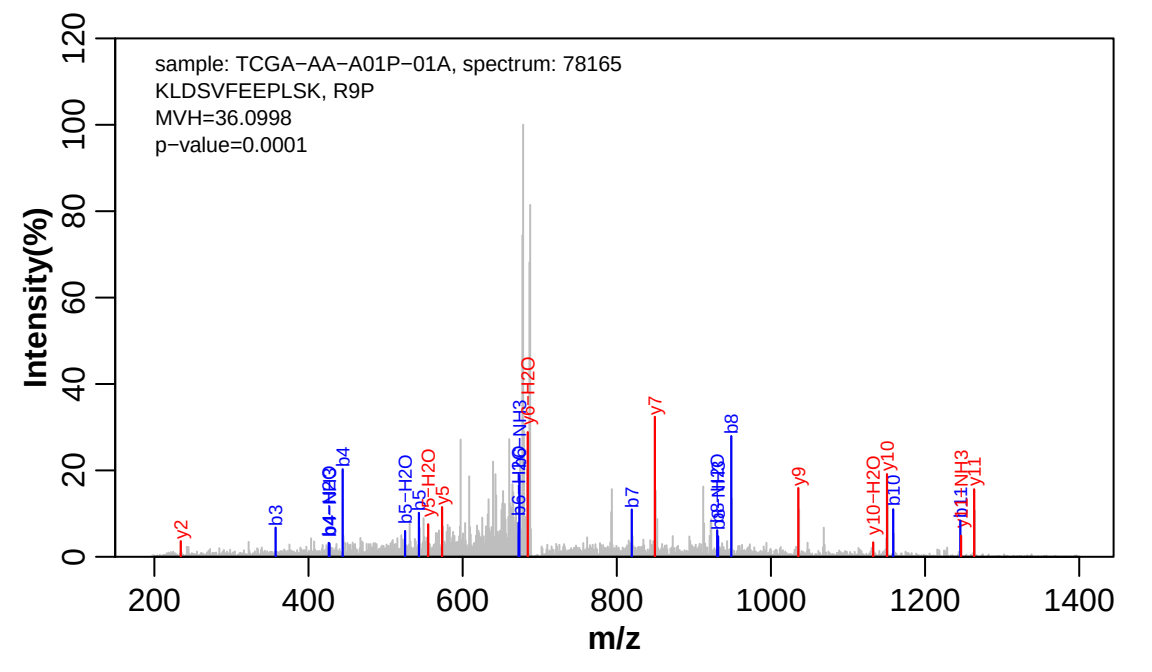

sample: TCGA−AA−A01P−01A, spectrum: 21851
FTVGDHSR, I3V
MVH=46.5193
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y2−H2O
b2
y4++
y5++
y6++−H2O
y7++−H2O
b4−H2O
y5

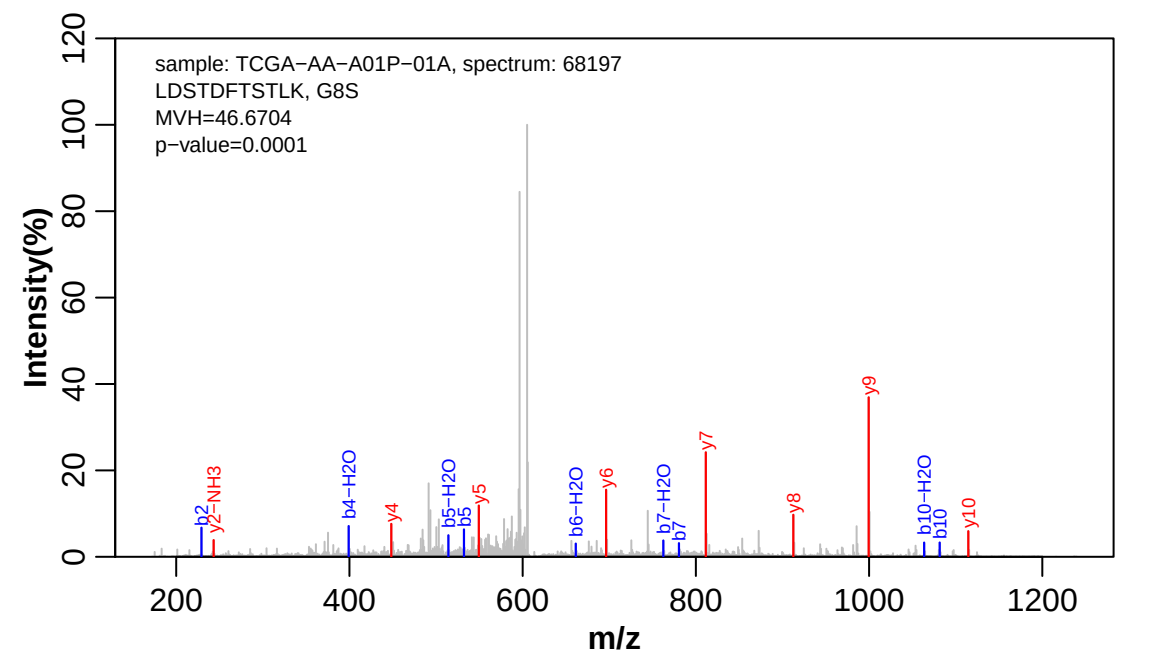

sample: TCGA−AA−A01P−01A, spectrum: 89057
GFGTDEQALLDCLGSCSNK, R16C
MVH=58.0690
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5++
y3
y2
b9
b10
b12
b11
y9
y10

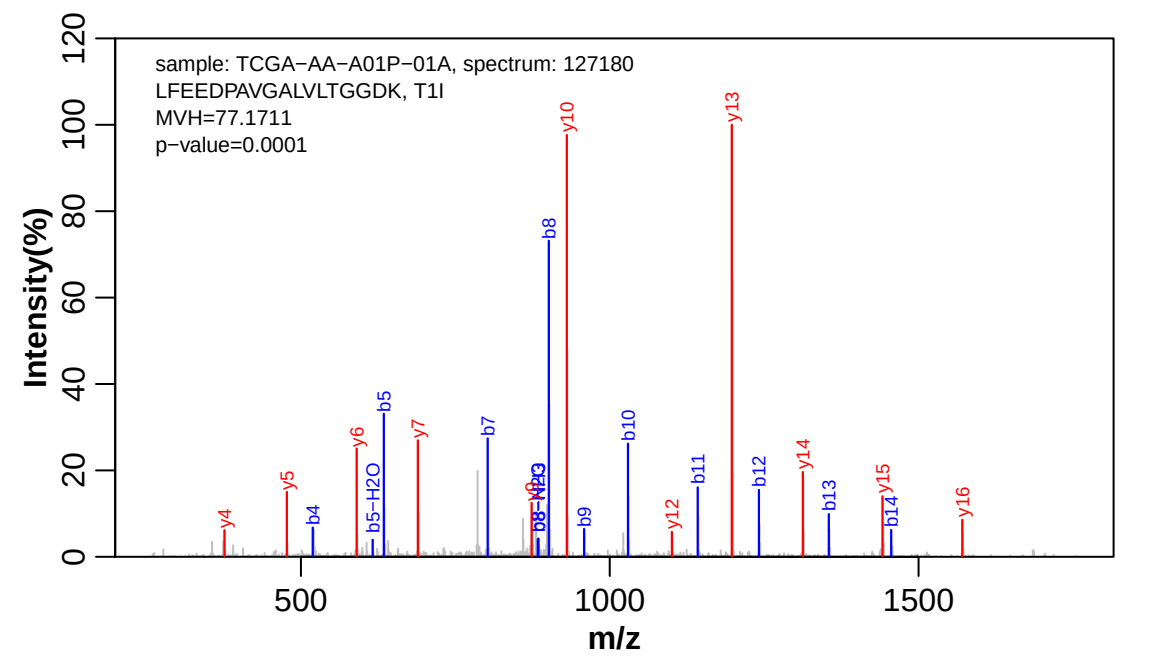

sample: TCGA−AA−A01P−01A, spectrum: 144877
GQTGALLQNTVESLSK, D9N
MVH=53.4752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
y5−H2O
y6
y6−NH3
y8
y8−NH3
y9
y10
y11
y12
y13
y14

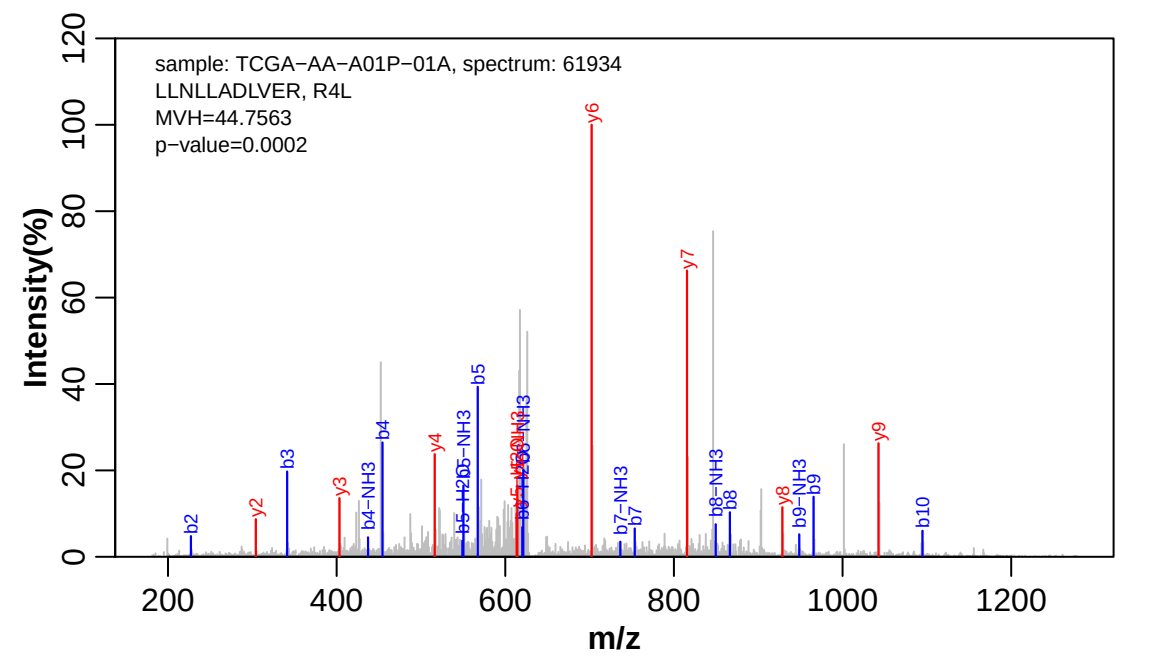

sample: TCGA−AA−A01P−01A, spectrum: 115756
GVAGSSVAVLCPYNR, G5S
MVH=60.8495
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y8
b11
y7
b8−H2O
b8
b7−H2O
b7
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3−H2O
y9
y10

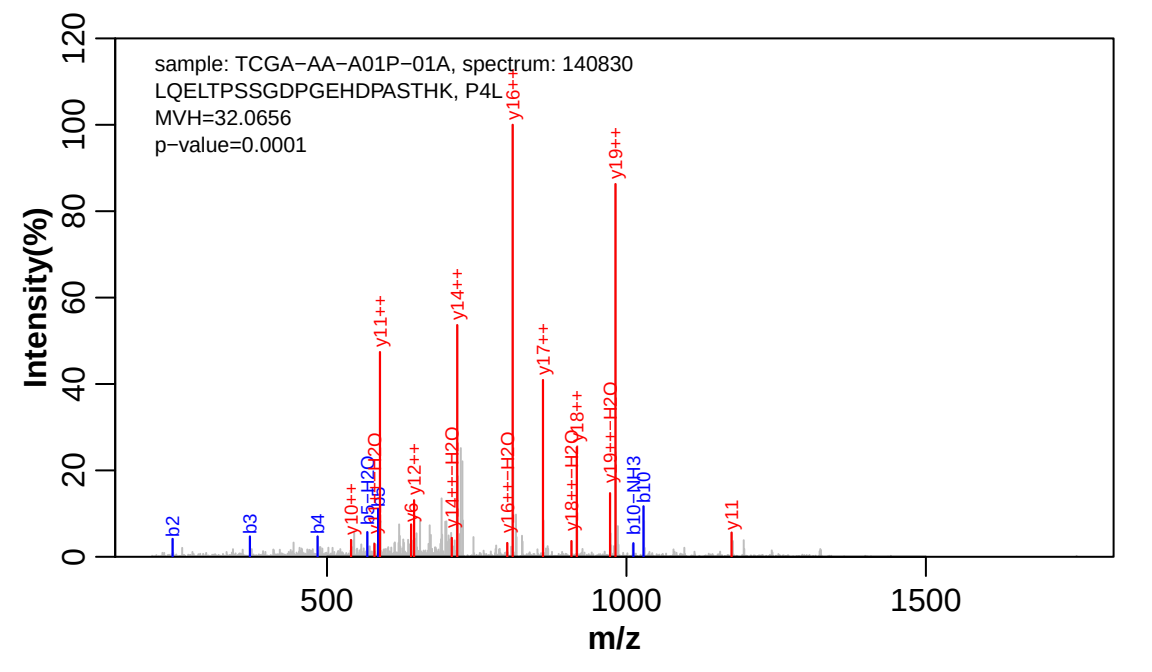

sample: TCGA−AA−A01P−01A, spectrum: 15437
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV[10A]V
MVH=47.2949
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b7++−H2O
b11++
b12++
b14++−NH3
y7++
b17++
y8
b21++−H2O
b21++
y21++H2O
b22++
b10
y10
b21++
b26++
b27++
b28++
b29++

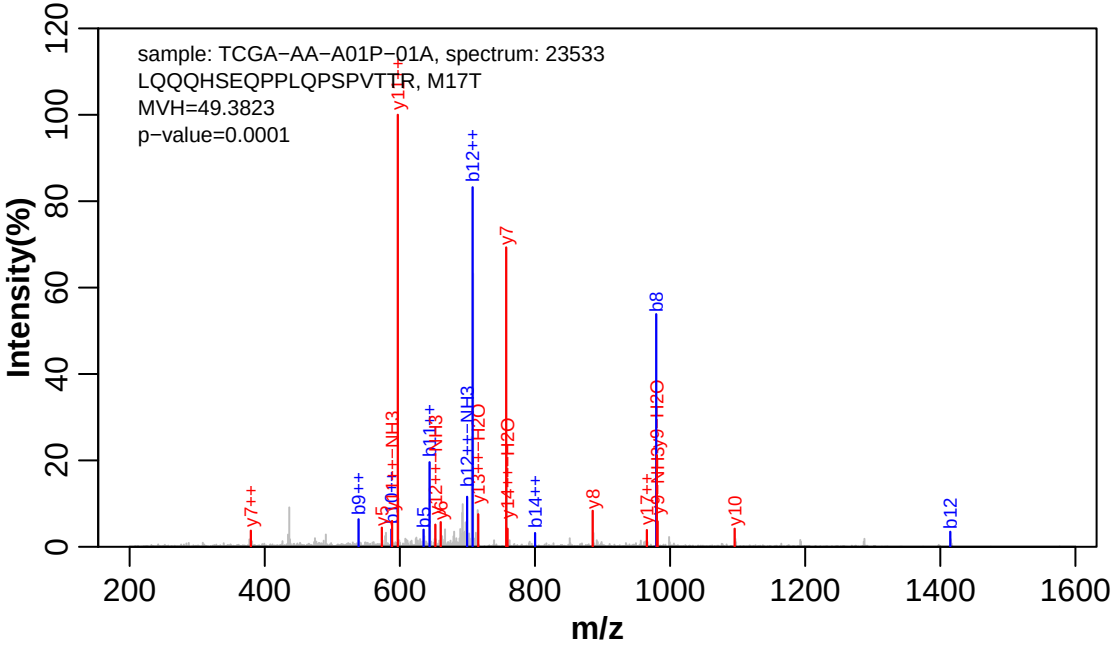

sample: TCGA−AA−A01P−01A, spectrum: 78165
KLDSVFEEPLSK, R9P
MVH=36.0998
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
b4
b5−H2O
y5
y5−H2O
y6−NH3
y6−H2O
y7
b7
b8
y9
y10−H2O
b10
y10
b11−NH3
y11

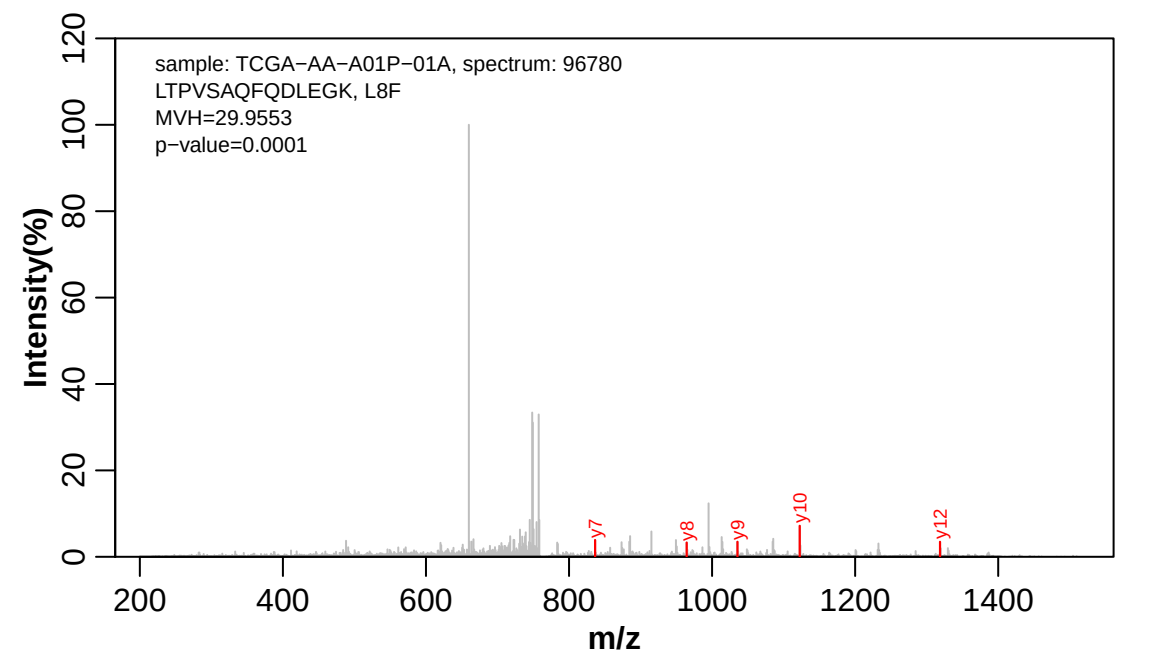

sample: TCGA−AA−A01P−01A, spectrum: 68197
LDSTDFTSTLK, G8S
MVH=46.6704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
b7−H2O
b7
y7
y8
y9
b10−H2O
b10
y10

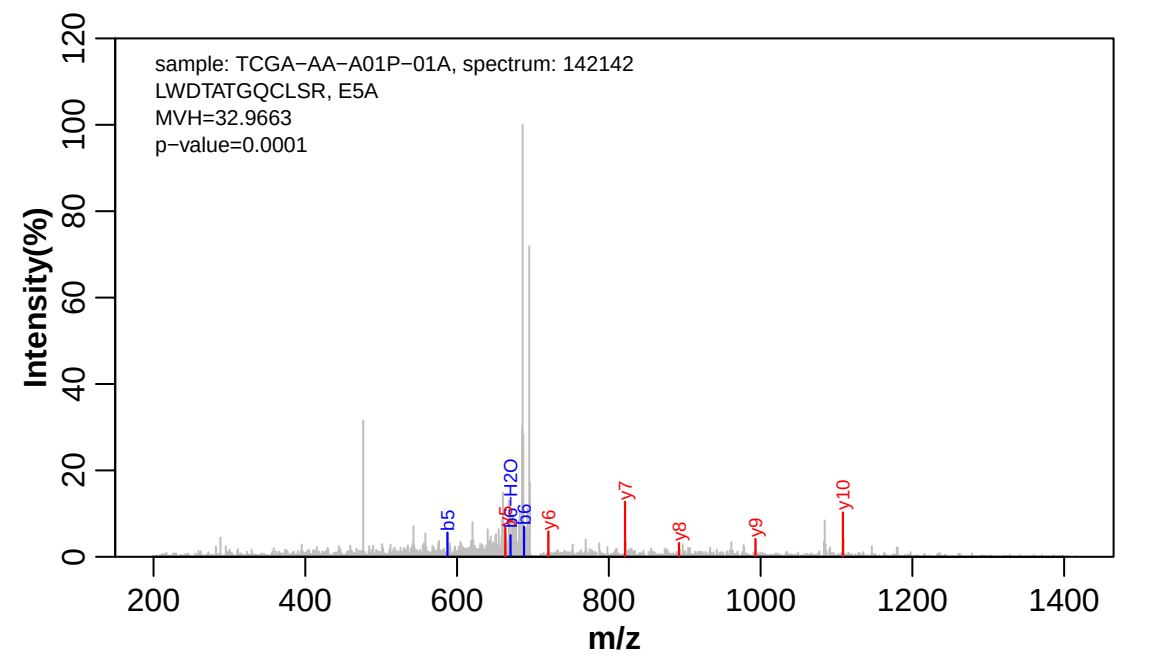

sample: TCGA−AA−A01P−01A, spectrum: 127180
LFEEDPAVGALVLTGGDK, T1I
MVH=77.1711
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
b5−H2O
b5
y6
y7
b7
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

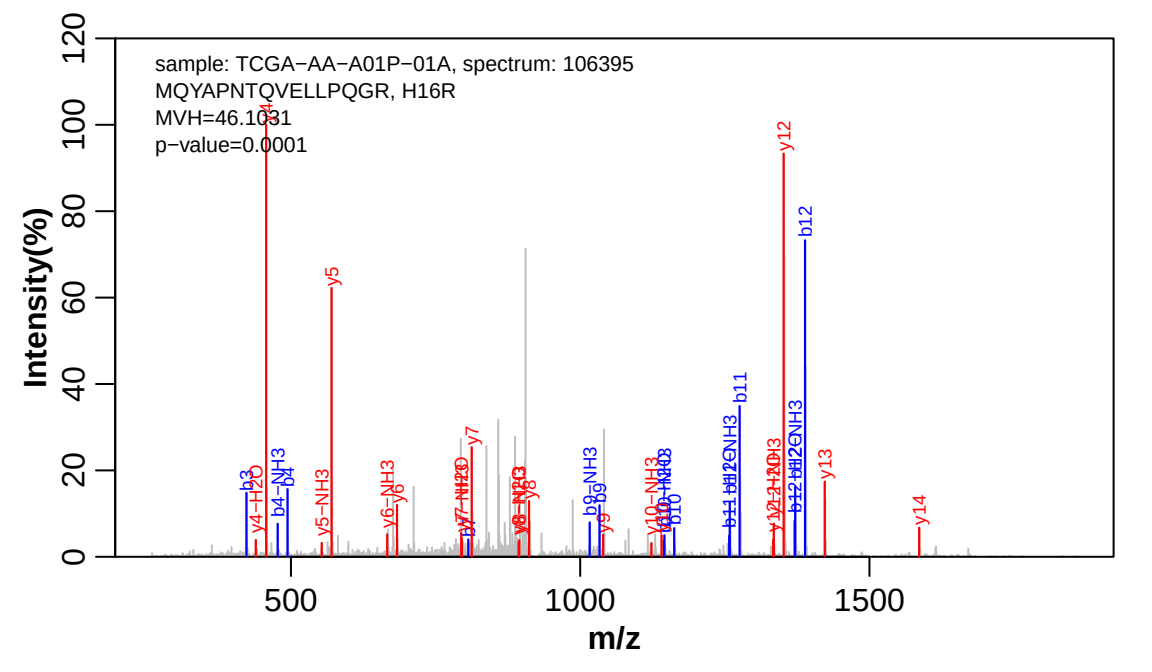

sample: TCGA−AA−A01P−01A, spectrum: 61934
LLNLLADLVER, R4L
MVH=44.7563
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y2
y3
y4
y8
b2
b3
b4
b4−NH3
b5
b5−NH3
b7−NH3
b7
b8−NH3
b8
b9
b9−NH3
b10

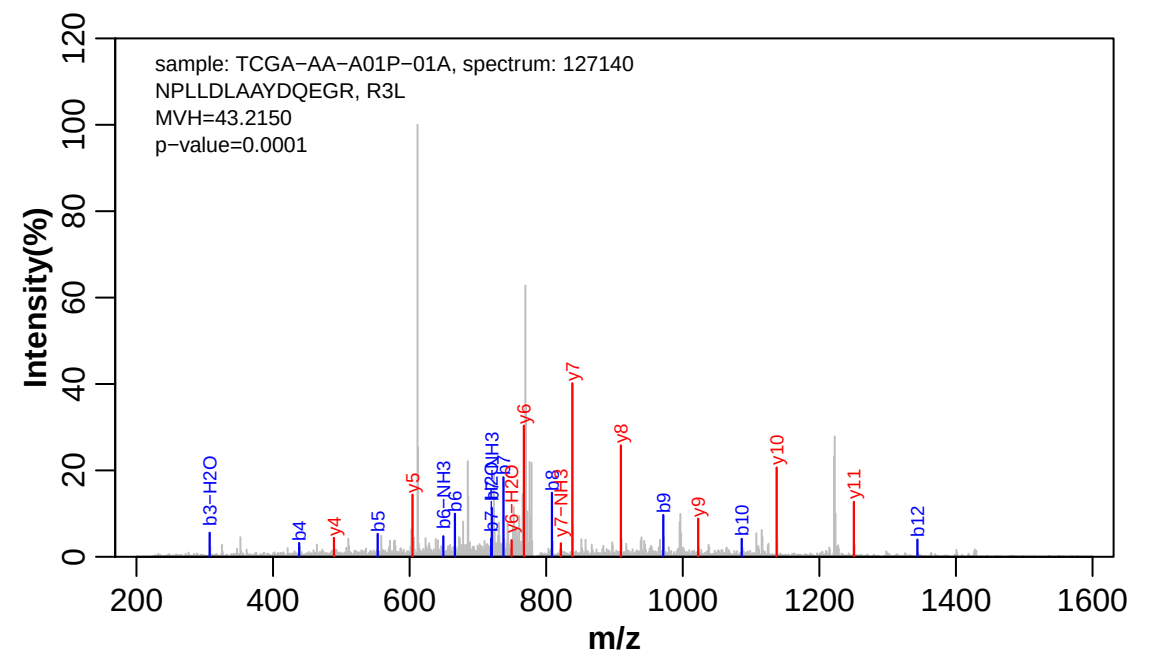

sample: TCGA−AA−A01P−01A, spectrum: 140830
LQELTPSSGDPGEHDPASTHK, P4L
MVH=32.0656
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4
y10++
y11++
y12++
y14++
y14++−H2O
y16++
y16++−H2O
y17++
y18++
y18++−H2O
y19++
y19++−H2O
b10−NH3
y11

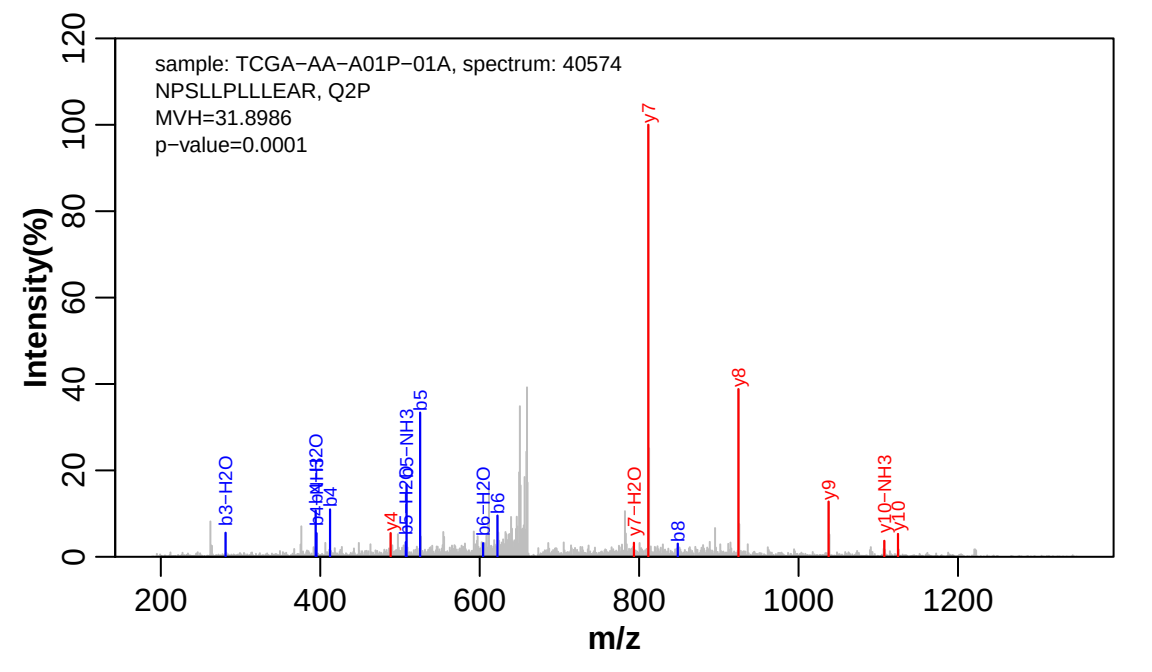

sample: TCGA−AA−A01P−01A, spectrum: 23533
LQQQHSEQPPLQPSPVTTR, M17T
MVH=49.3823
p−value=0.0001
Intensity(%)
m/z
y7++
b9++
y5
b10++−NH3
y11++
b5
b11++
y6
y12++−NH3
b12++−NH3
y13++−H2O
b12++
y14++−H2O
y7
b14++
y8
b8
y17++
y9−NH3
y9−H2O
y10
b12

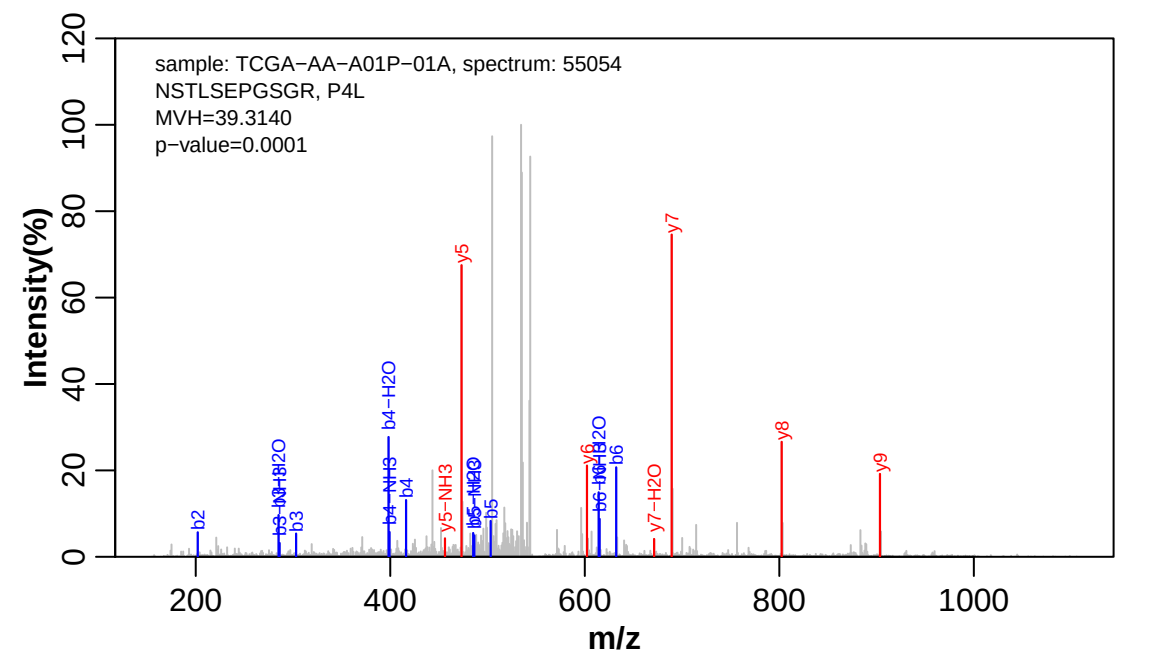

sample: TCGA−AA−A01P−01A, spectrum: 96780
LTPVSAQFQDLEGK, L8F
MVH=29.9553
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
y8
y9
y10
y12

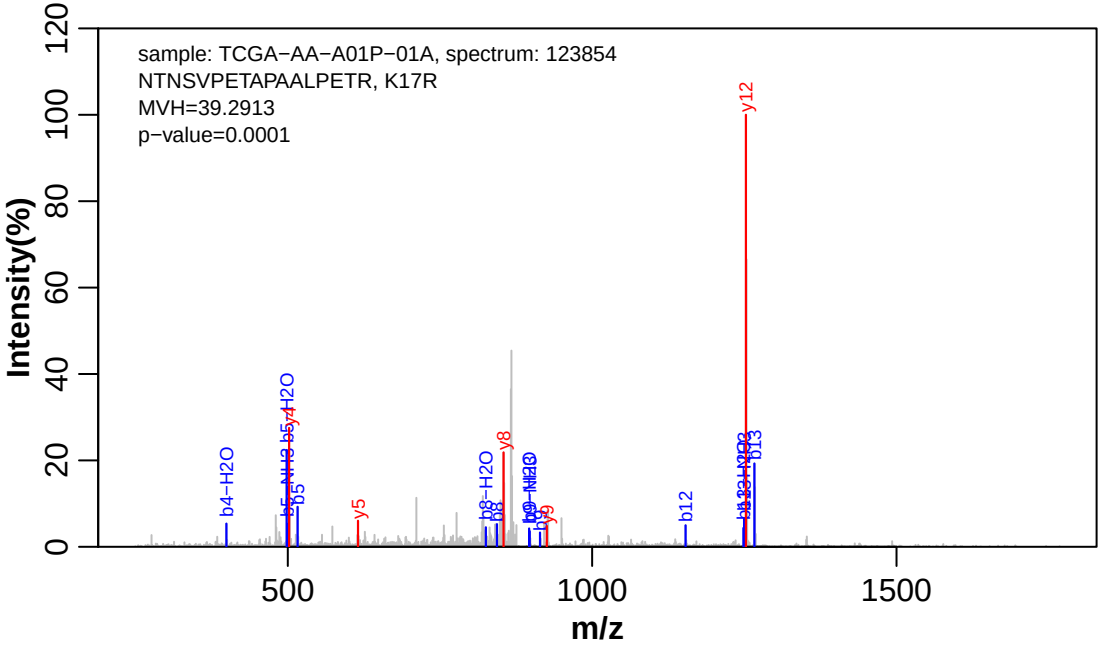

sample: TCGA−AA−A01P−01A, spectrum: 142142
LWDTATGQCLSR, E5A
MVH=32.9663
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5
b6−H2O
b6
y6
y7
y8
y9
y10

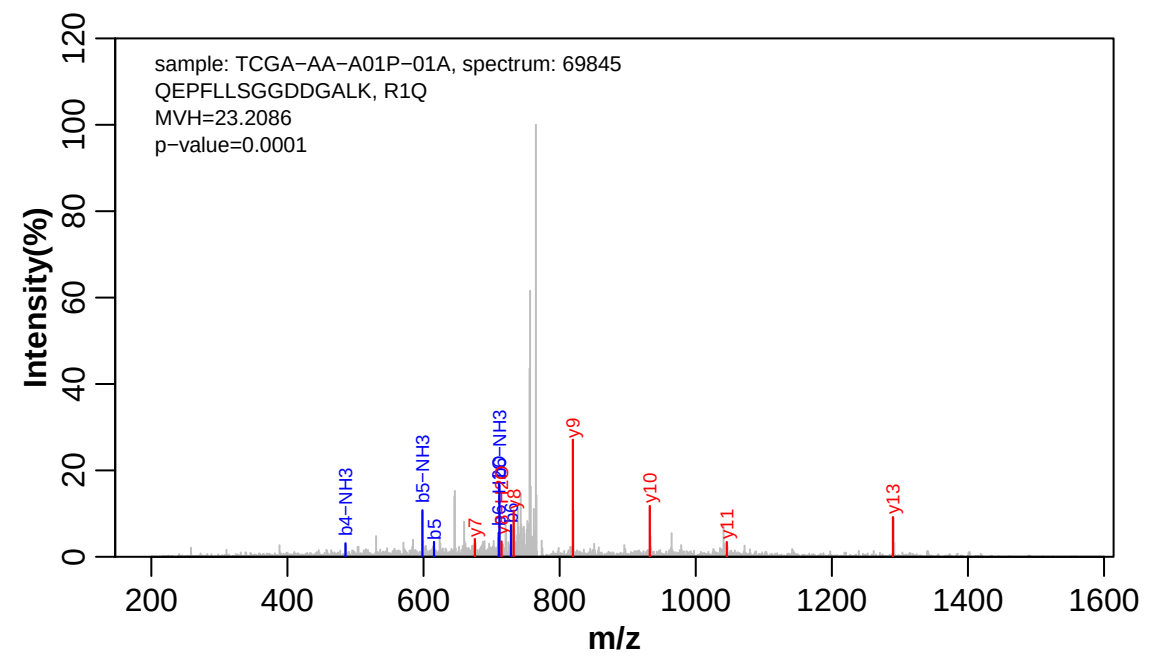

sample: TCGA−AA−A01P−01A, spectrum: 106395
MQYAPNTQVELLPQGR, H16R
MVH=46.1031
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b11
y13
y14
y5−NH3
y6−NH3
y7
b8−NH3
y10−NH3
b11−NH3
b12−NH3
y12−NH3

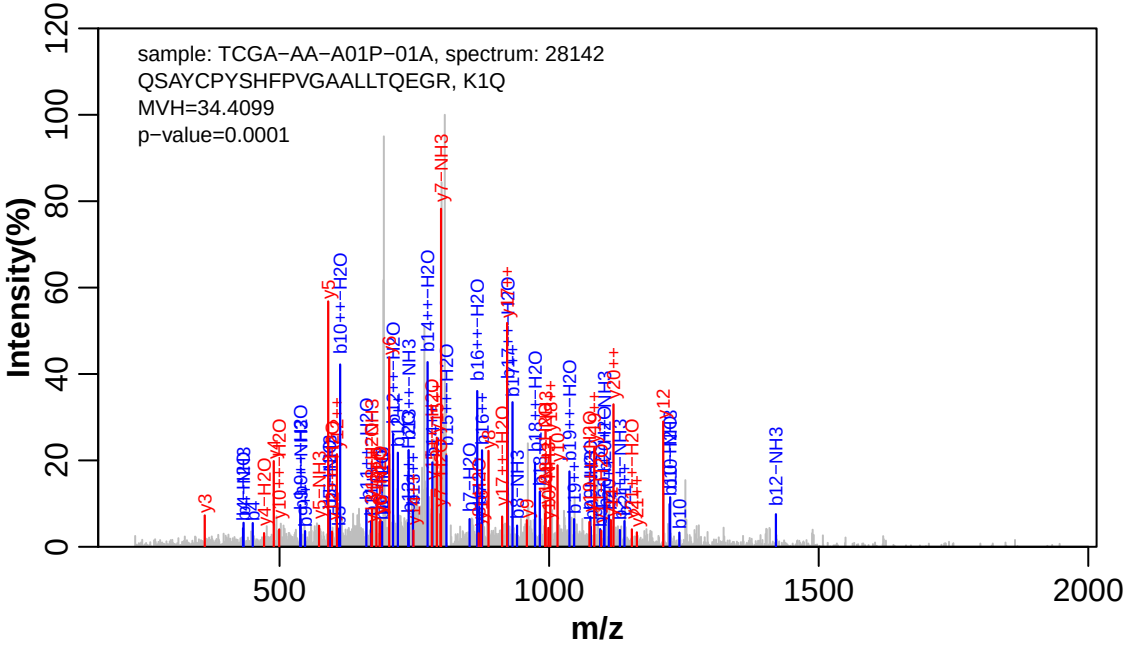

sample: TCGA−AA−A01P−01A, spectrum: 127140
NPLLDLAAYDQEGR, R3L
MVH=43.2150
p−value=0.0001
Intensity(%)
m/z
b3−H2O
b4
y4
b5
y5
b6−NH3
b6
y6−H2O
y6
y7−NH3
y7
y8
b9
y9
b10
y10
y11
b12

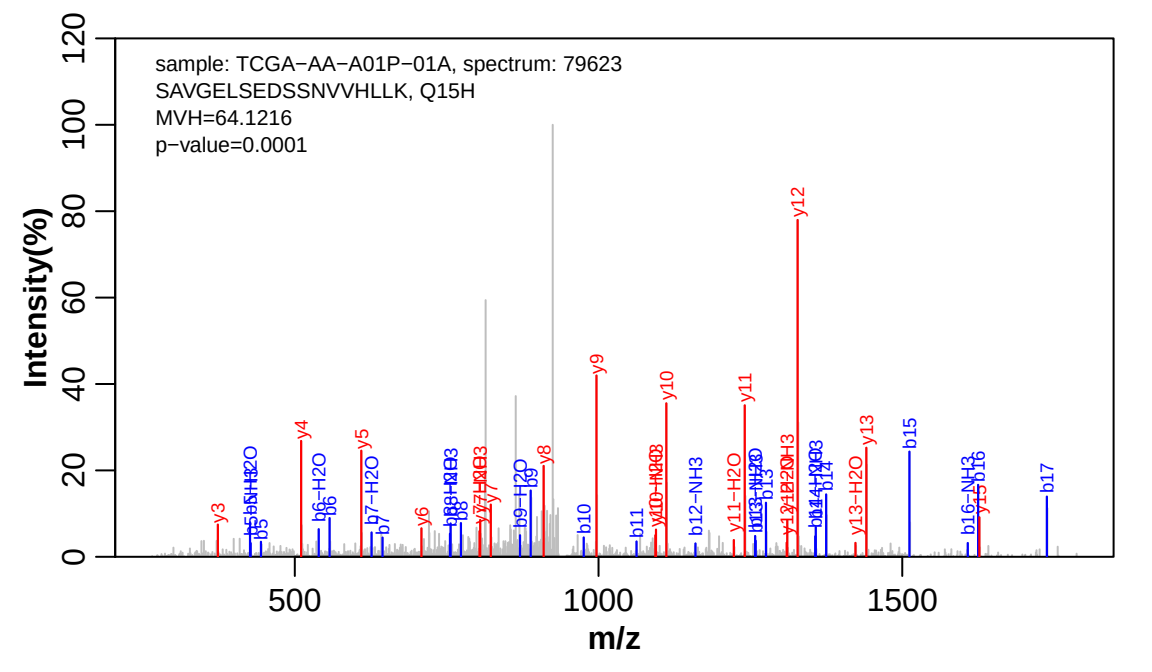

sample: TCGA−AA−A01P−01A, spectrum: 40574
NPSLLPLLLEAR, Q2P
MVH=31.8986
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b4
y4
b5
b5−NH3
b6−H2O
b6
y7
y7−H2O
b8
y8
y9
y10−NH3
y10

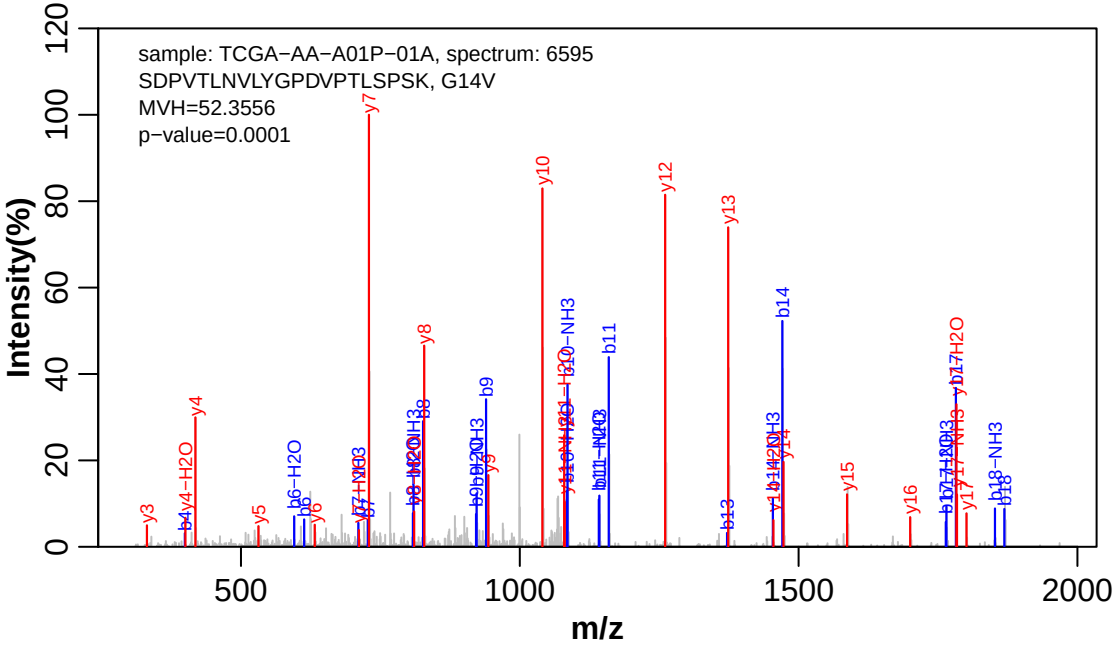

sample: TCGA−AA−A01P−01A, spectrum: 55054
NSTLSEPGSGR, P4L
MVH=39.3140
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b3−H2O
b4
b4−NH3
b4−H2O
y5−NH3
y5
b5
b6
b6−H2O
y6
y7
y7−H2O
y8
y9

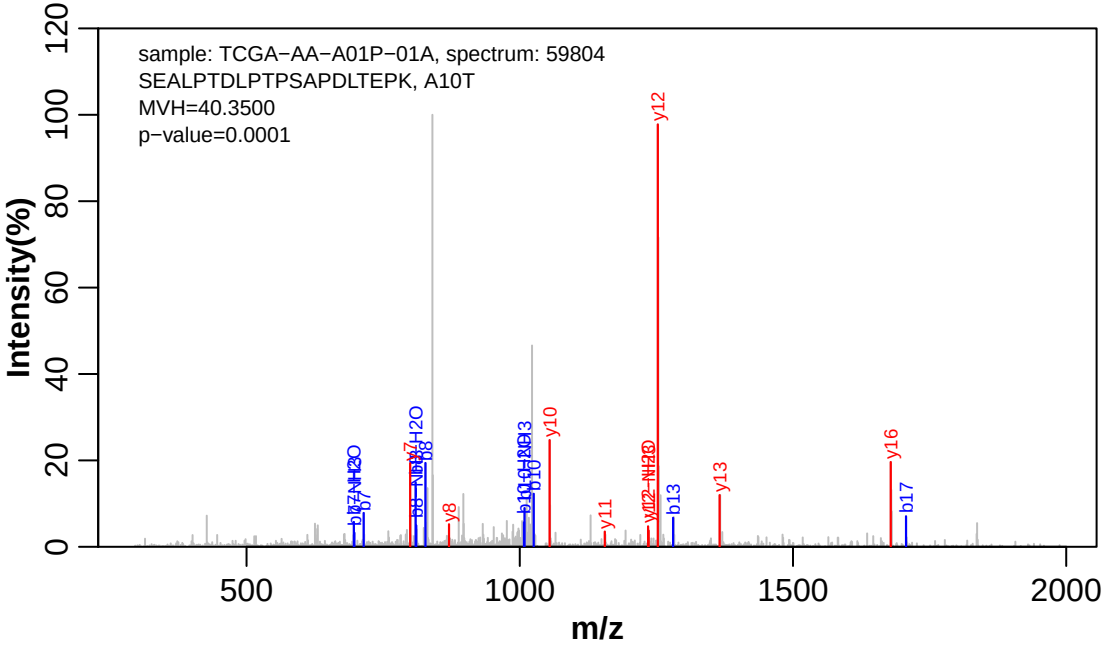

sample: TCGA−AA−A01P−01A, spectrum: 123854
NTNSVPETAPAALPETR, K17R
MVH=39.2913
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b4−H2O
b5
b12
b13

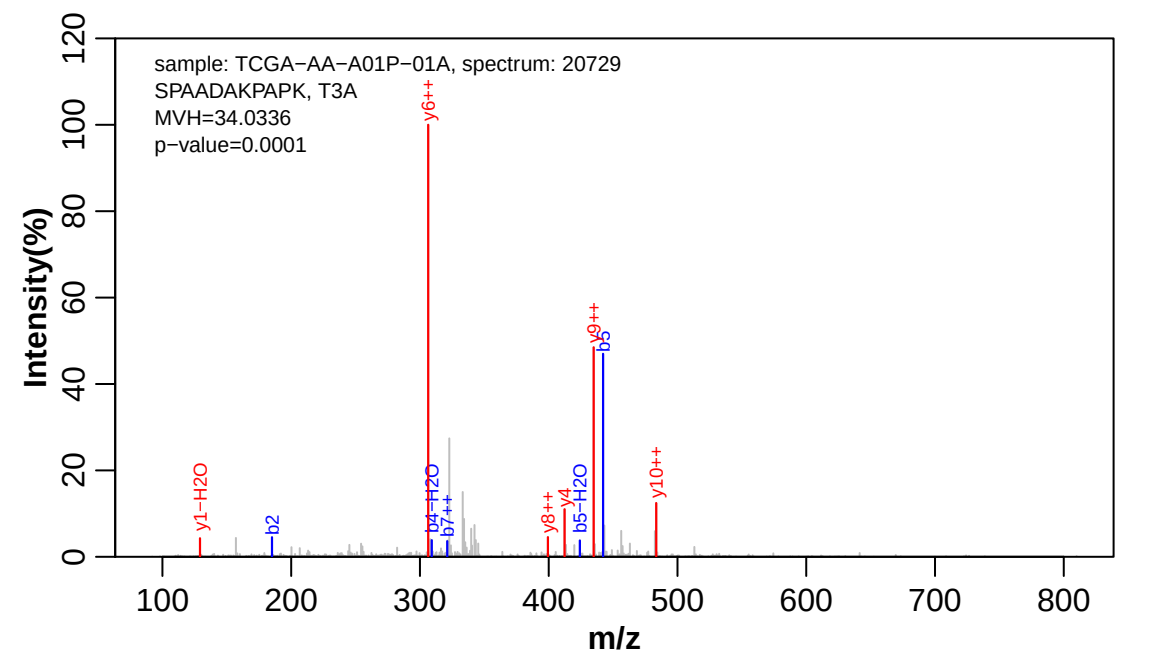

sample: TCGA−AA−A01P−01A, spectrum: 69845
QEPFLLSGGDDGALK, R1Q
MVH=23.2086
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4−NH3
b5−NH3
b5
y7
y9
y10
y11
y13

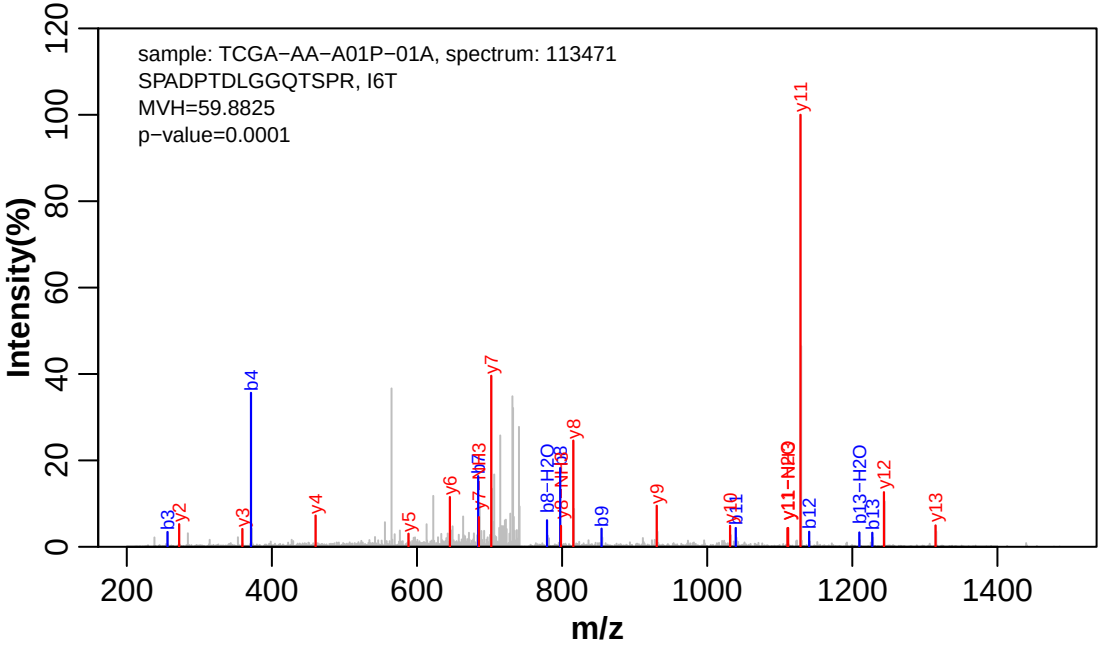

sample: TCGA−AA−A01P−01A, spectrum: 28142
QSAYCPYSHFPVGAALLTQEGR, K1Q
MVH=34.4099
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4−H2O
y4
y10++−H2O
y5
b10++−H2O
y7−NH3
b14++−H2O
b16++−H2O
y17++−H2O
y8
b7−H2O
b8−NH3
b19++−H2O
y20++
y21++−H2O
b10
b12−NH3

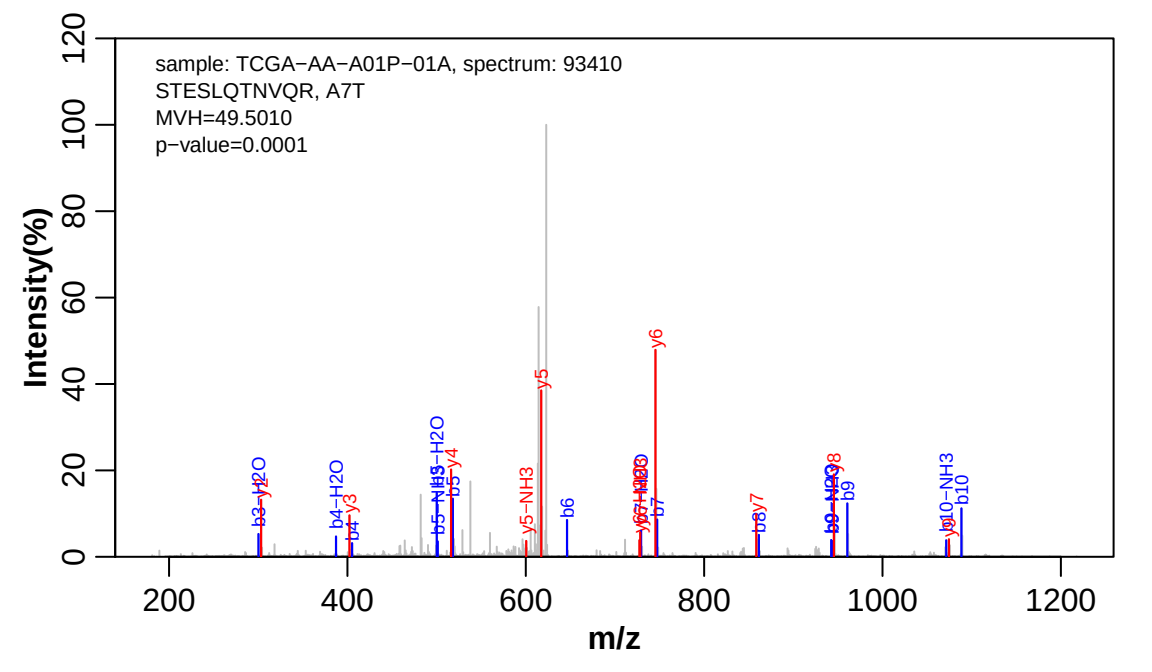

sample: TCGA−AA−A01P−01A, spectrum: 79623
SAVGELSEDSSNVVHLLK, Q15H
MVH=64.1216
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
b6−H2O
b7−H2O
b9−H2O
b10
b11
b12−NH3
y11−H2O
y13−H2O
b15
b16−NH3
b17

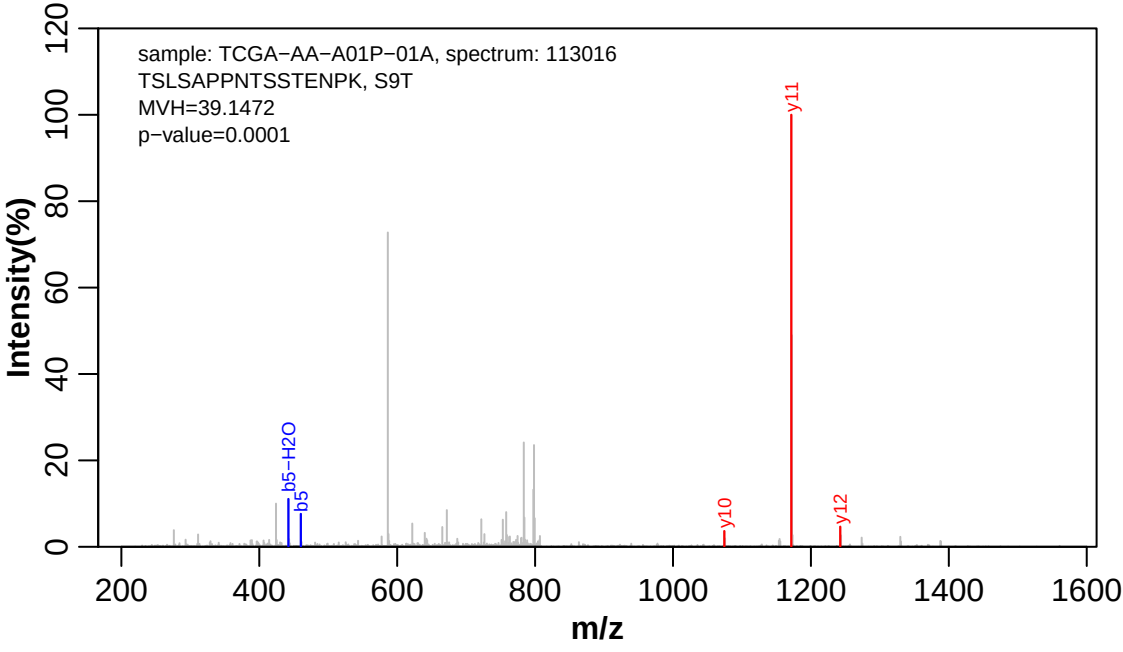

sample: TCGA−AA−A01P−01A, spectrum: 6595
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=52.3556
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b4
y4
y4−H2O
y5
b6
b6−H2O
y6
y7
y7−H2O
y7−NH3
b7
y8
b8
b8−H2O
b8−NH3
b9
b9−H2O
b9−NH3
y9
y10
y10−H2O
y10−NH3
b11
b11−H2O
b11−NH3
y12
y13
b13
b14
y14
y15
y16
y17
y17−H2O
y17−NH3
b17
b17−H2O
b17−NH3
b18
b18−NH3

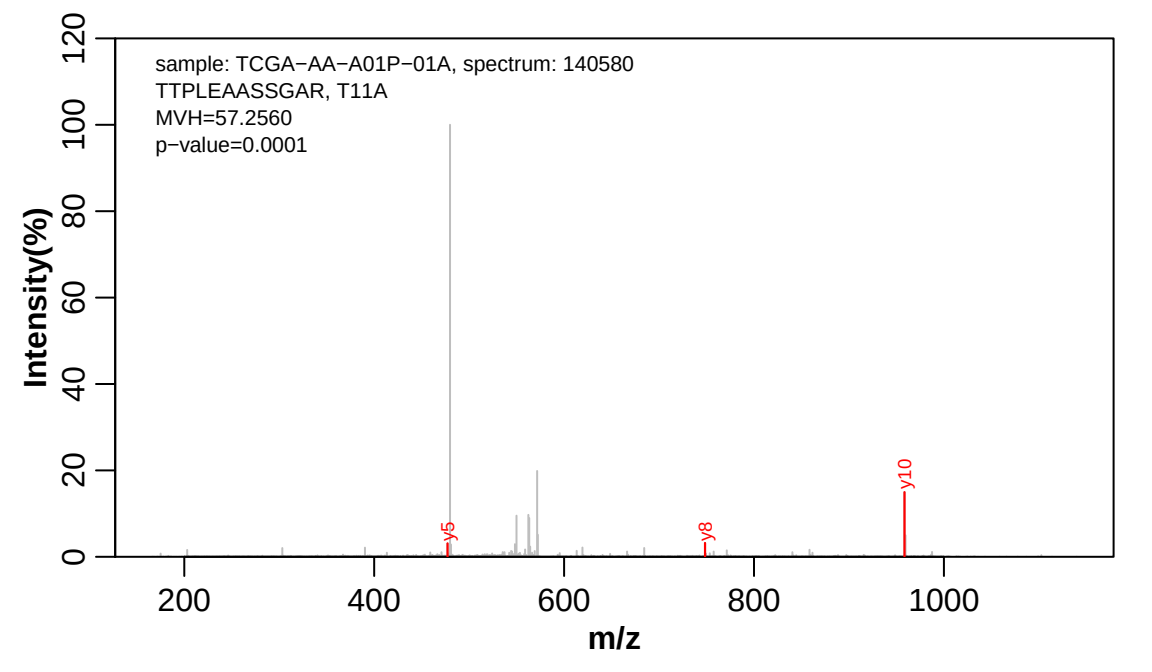

sample: TCGA−AA−A01P−01A, spectrum: 59804
SEALPTDLPTPSAPDLTEPK, A10T
MVH=40.3500
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y16
y13
y11
y8
b13
b17

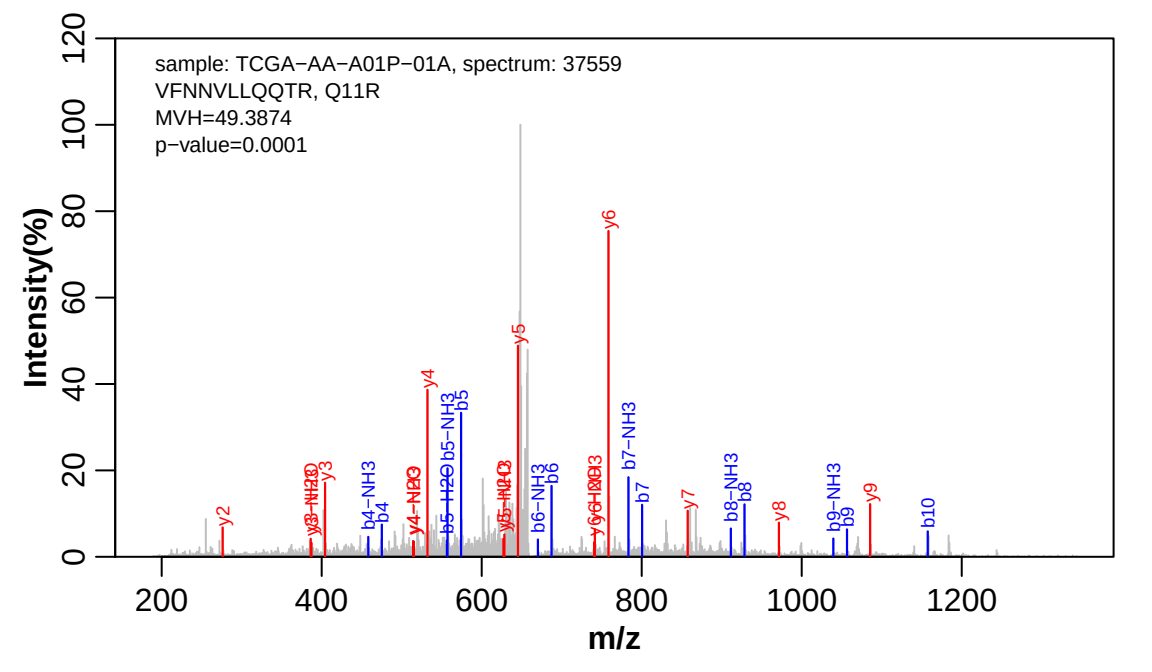

sample: TCGA−AA−A01P−01A, spectrum: 20729
SPAADAKPAPK, T3A
MVH=34.0336
p−value=0.0001
Intensity(%)
m/z
y6++
y1−H2O
b2
b4−H2O
b7++
y8++
y4
b5−H2O
y9++
b5
y10++

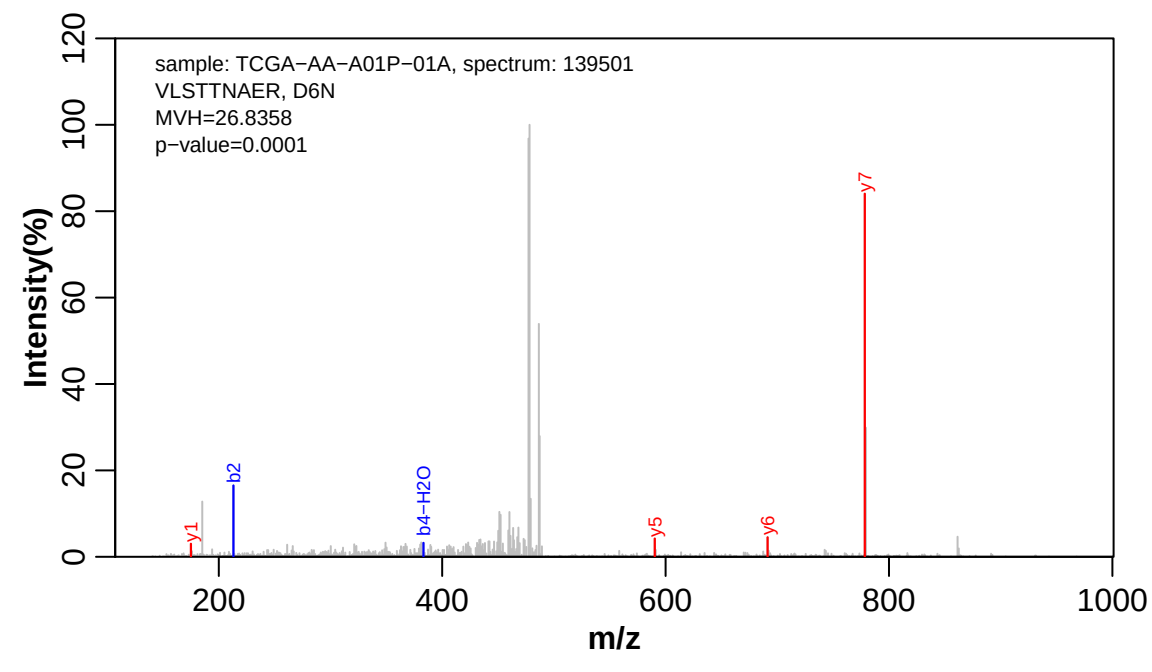

sample: TCGA−AA−A01P−01A, spectrum: 113471
SPADPTDLGGQTSPR, I6T
MVH=59.8825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4
y3
y4
y5
y6
y7
y7−NH3
y8
b8−H2O
y8−NH3
b9
y9
b10
b11
y11−NH3
y11−H2O
b12
b13−H2O
b13
y12
y13
y11

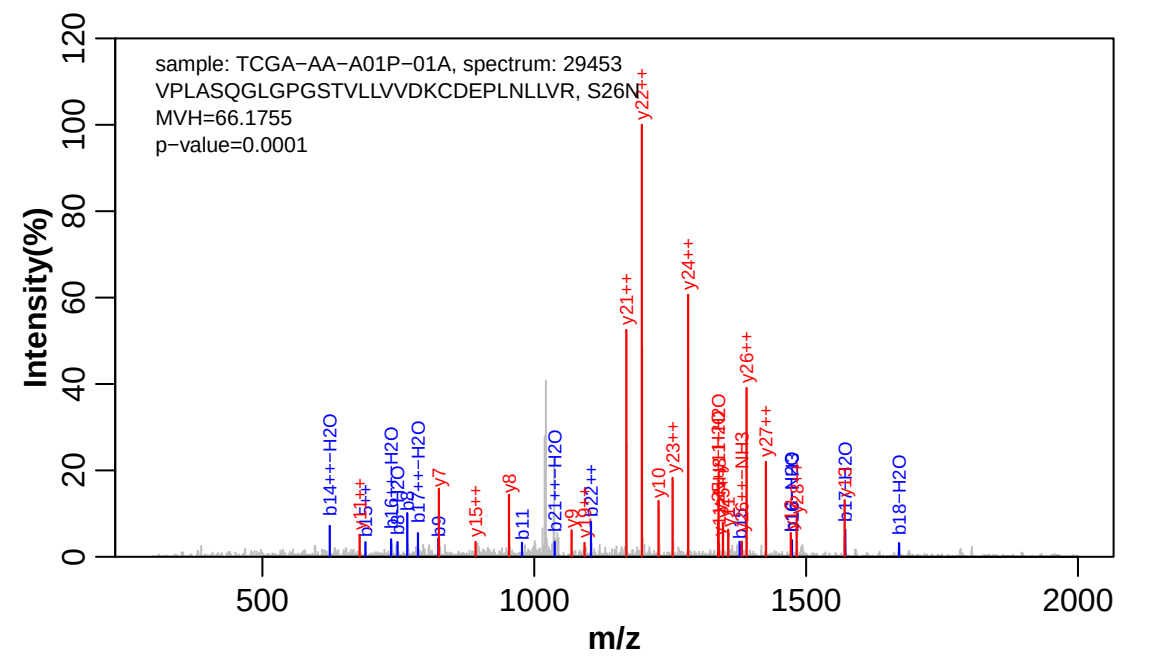

sample: TCGA−AA−A01P−01A, spectrum: 93410
STESLQTNVQR, A7T
MVH=49.5010
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3−y2
b4−H2O
b4−y3
b5−NH3
b5−H2O
b5
y4
y5−NH3
y5
b6
y6
b7
b8−y7
b9
y10−NH3
b10

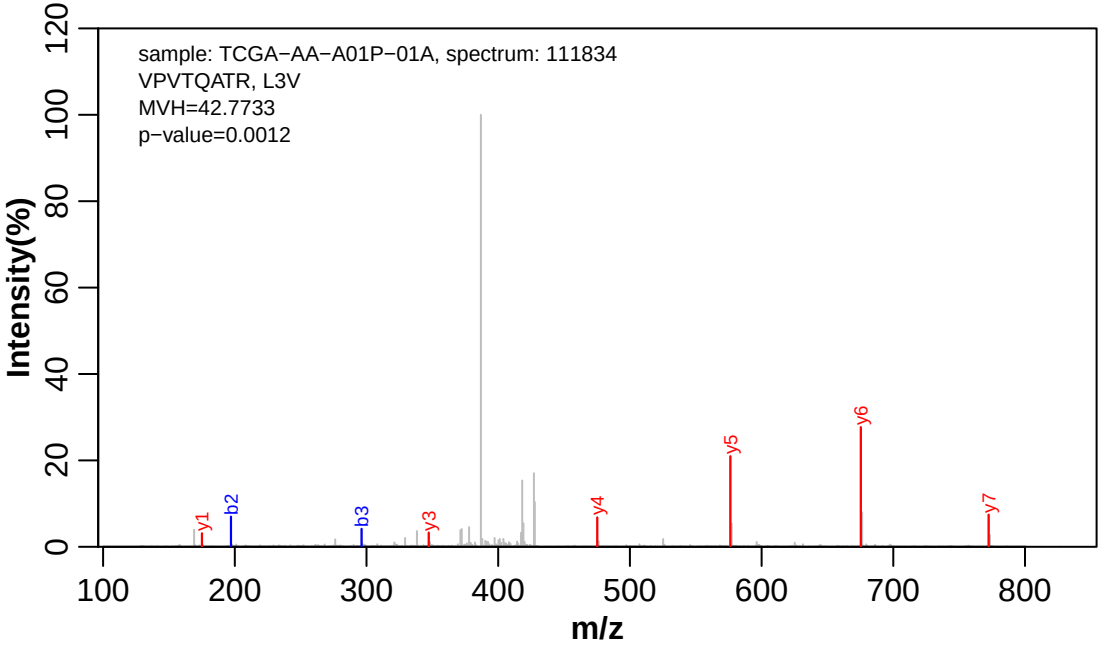

sample: TCGA−AA−A01P−01A, spectrum: 113016
TSLSAPPNTSSTENPK, S9T
MVH=39.1472
p−value=0.0001
y11
b5−H2O
b5
y10
y12
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

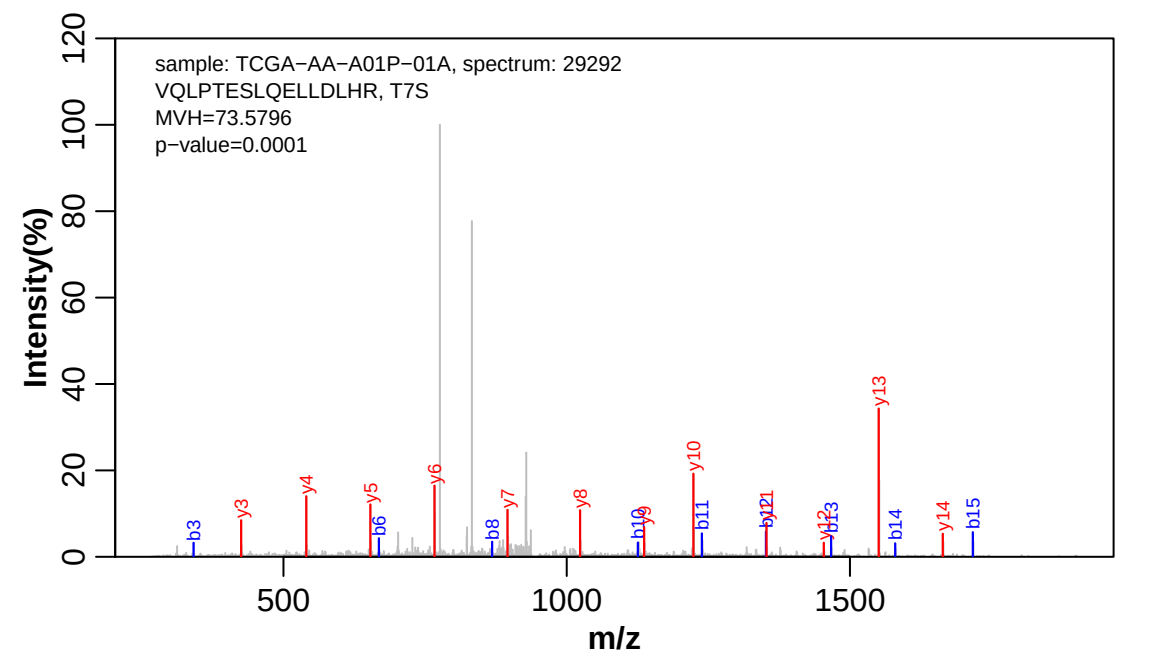

sample: TCGA−AA−A01P−01A, spectrum: 140580
TTPLEAASSGAR, T11A
MVH=57.2560
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y8
y10

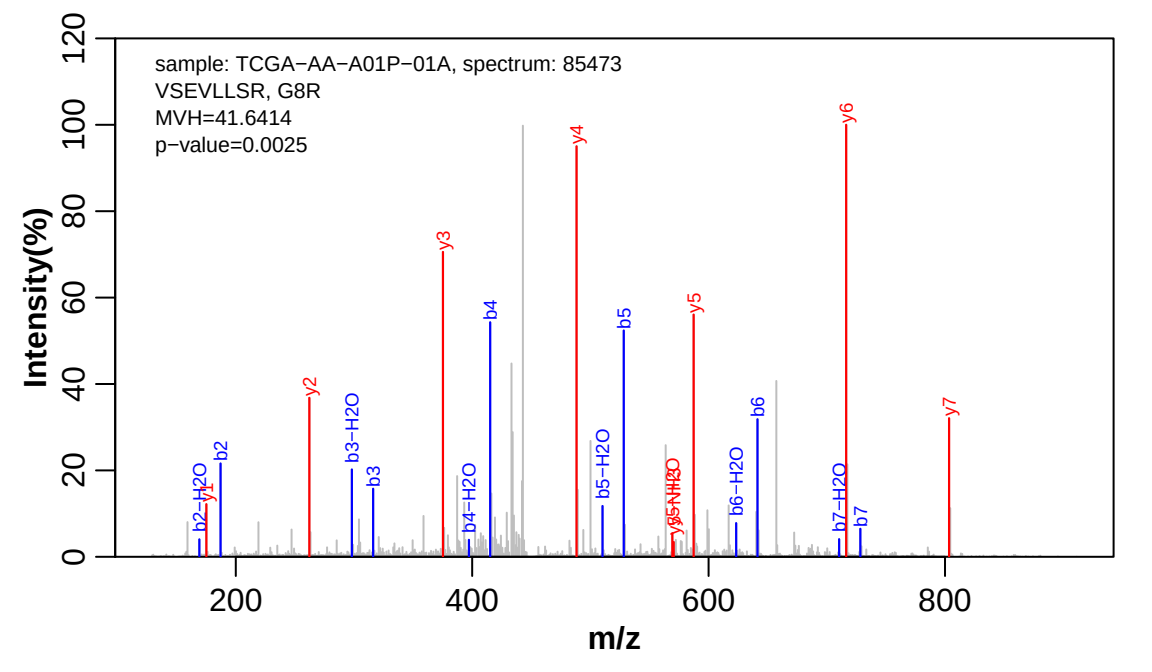

sample: TCGA−AA−A01P−01A, spectrum: 37559
VFNNVLLQQTR, Q11R
MVH=49.3874
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−NH3
b4
y4
b5
b5−NH3
y5
b6−NH3
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

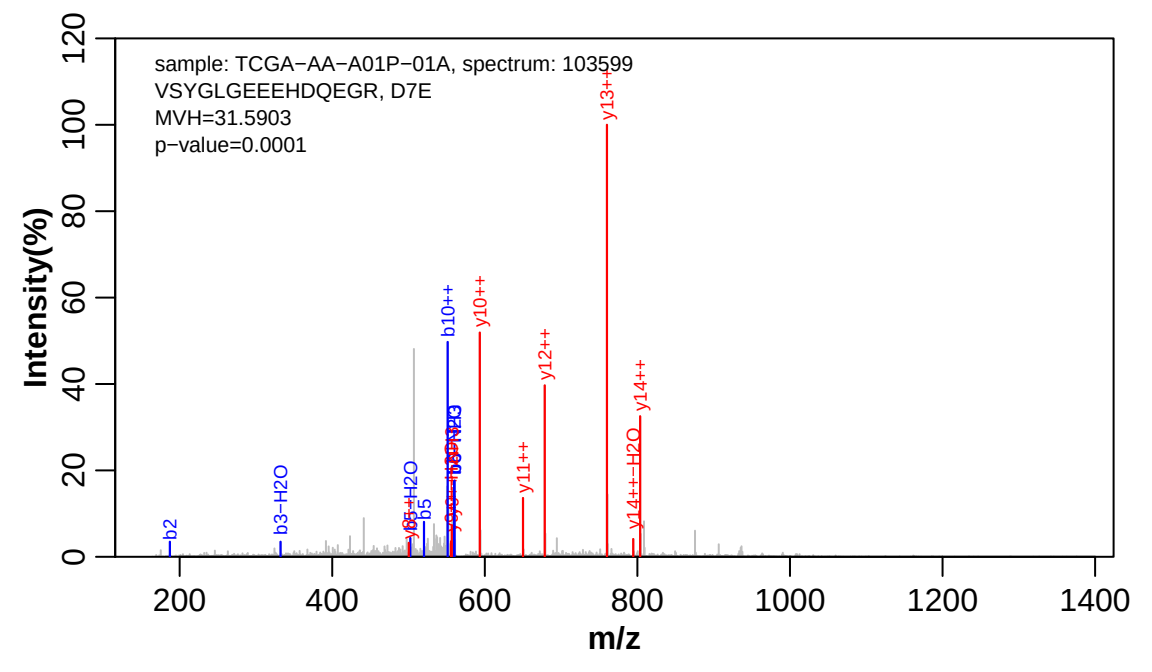

sample: TCGA−AA−A01P−01A, spectrum: 139501
VLSTTNAER, D6N
MVH=26.8358
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
b4−H2O
y5
y6
y7

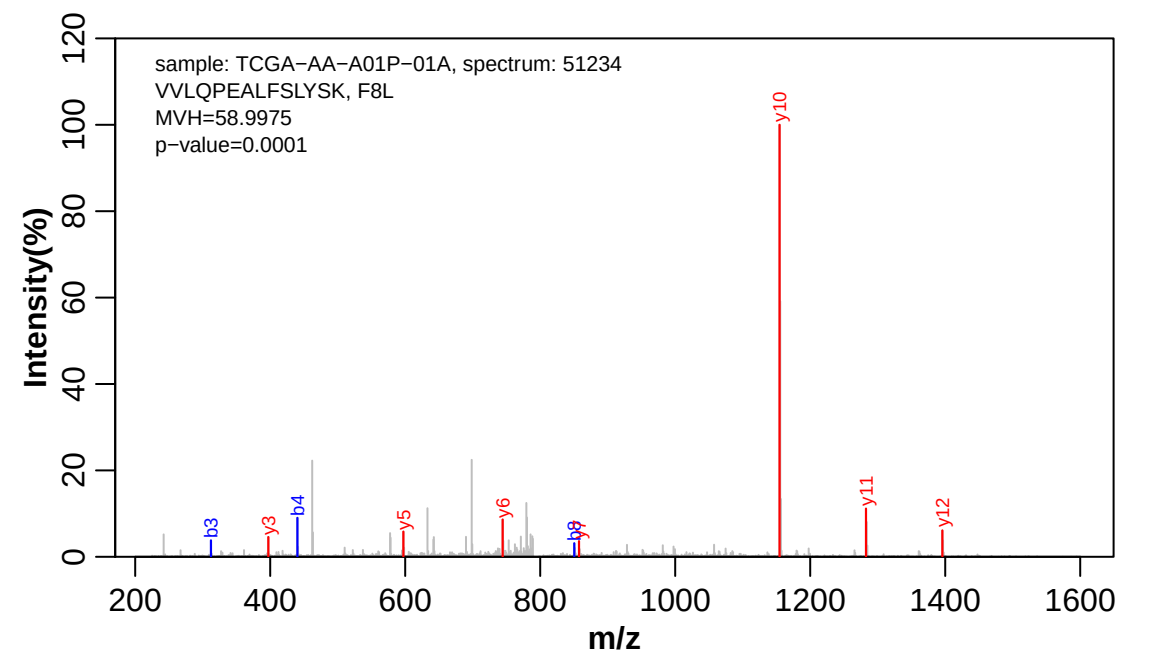

sample: TCGA−AA−A01P−01A, spectrum: 29453
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=66.1755
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y23++
y10
y26++
y27++
y15++
y8
y7
b9
b11
b14++−H2O
b17++−H2O
b21++−H2O
b18−H2O

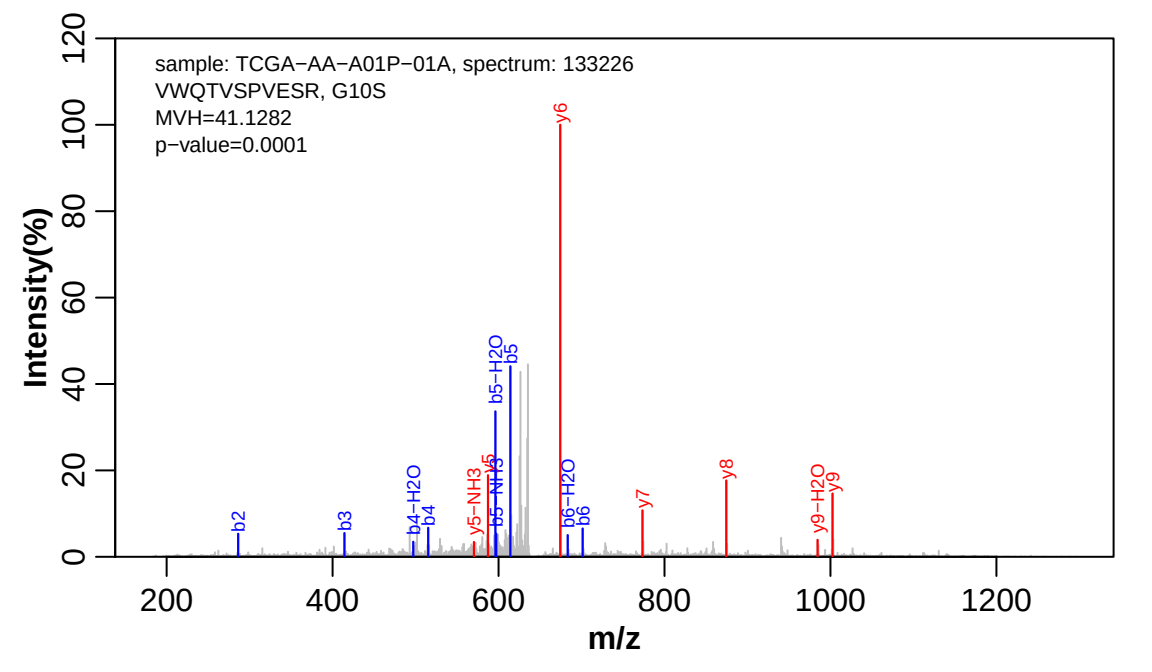

sample: TCGA−AA−A01P−01A, spectrum: 111834
VPVTQATR, L3V
MVH=42.7733
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
b3
y3
y4
y5
y6
y7

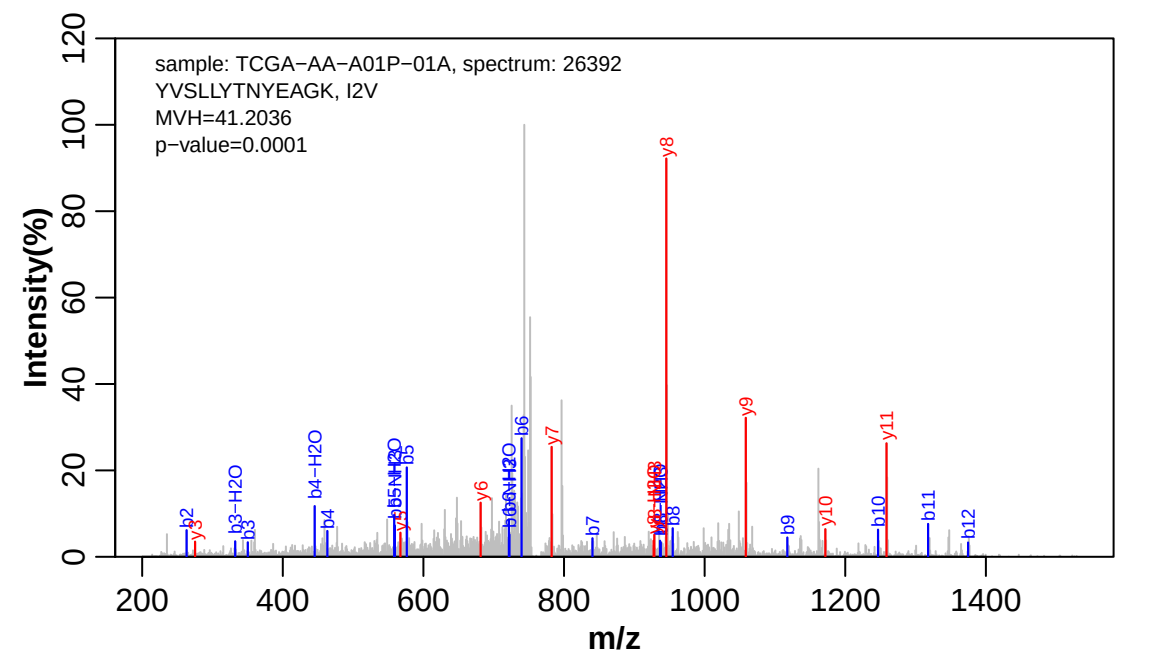

sample: TCGA−AA−A01P−01A, spectrum: 29292
VQLPTESLQELLDLHR, T7S
MVH=73.5796
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y3
y4
y5
b6
y6
b8
y7
y8
b10
y9
y10
b11
b12
y12
b13
y13
b14
y14
b15

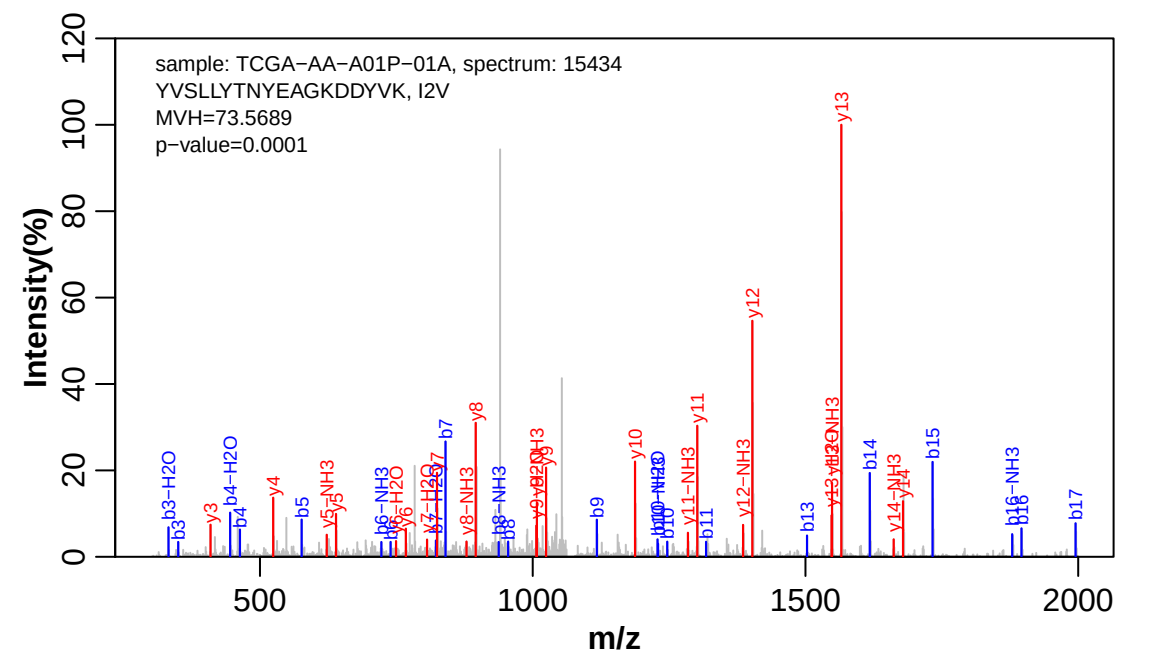

sample: TCGA−AA−A01P−01A, spectrum: 85473
VSEVLLSR, G8R
MVH=41.6414
p−value=0.0025
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y6
y4
y3
y2
y5
y7
b5
b4
b6
b3−H2O
b5−H2O
b6−H2O
b7−H2O
b2
b3
b4−H2O
b2−H2O
y1
b7

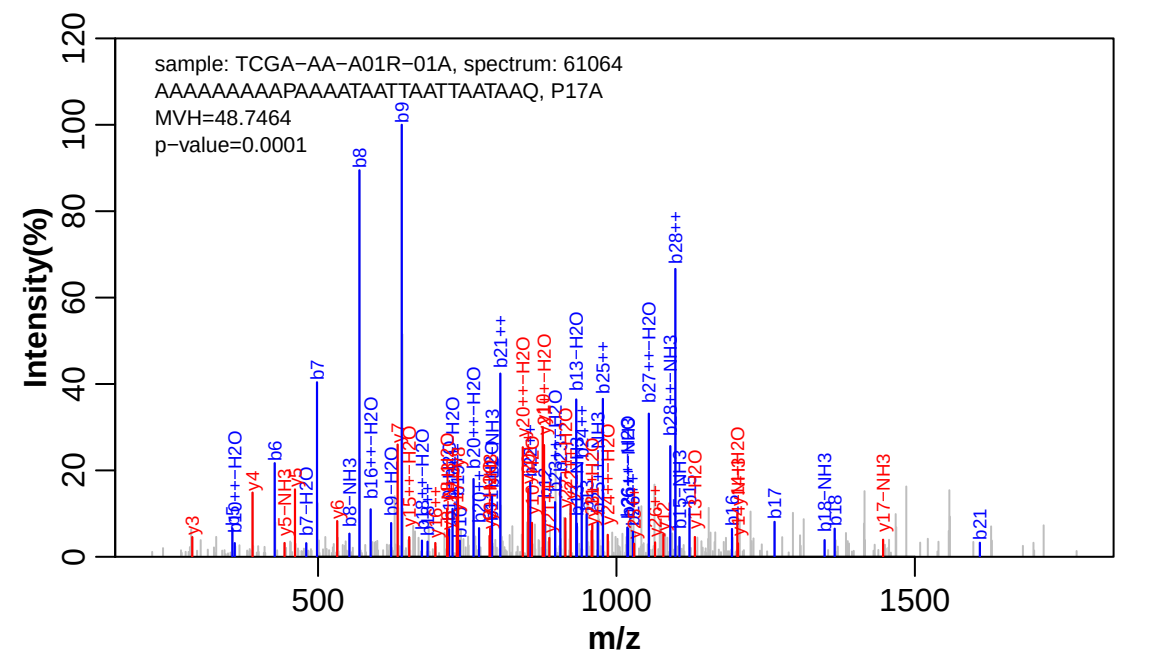

sample: TCGA−AA−A01P−01A, spectrum: 103599
VSYGLGEEEHDQEGR, D7E
MVH=31.5903
p−value=0.0001
Intensity(%)
m/z
b2
b3−H2O
b5
b10++
y10++
y11++
y12++
y13++
y14++
y14++−H2O

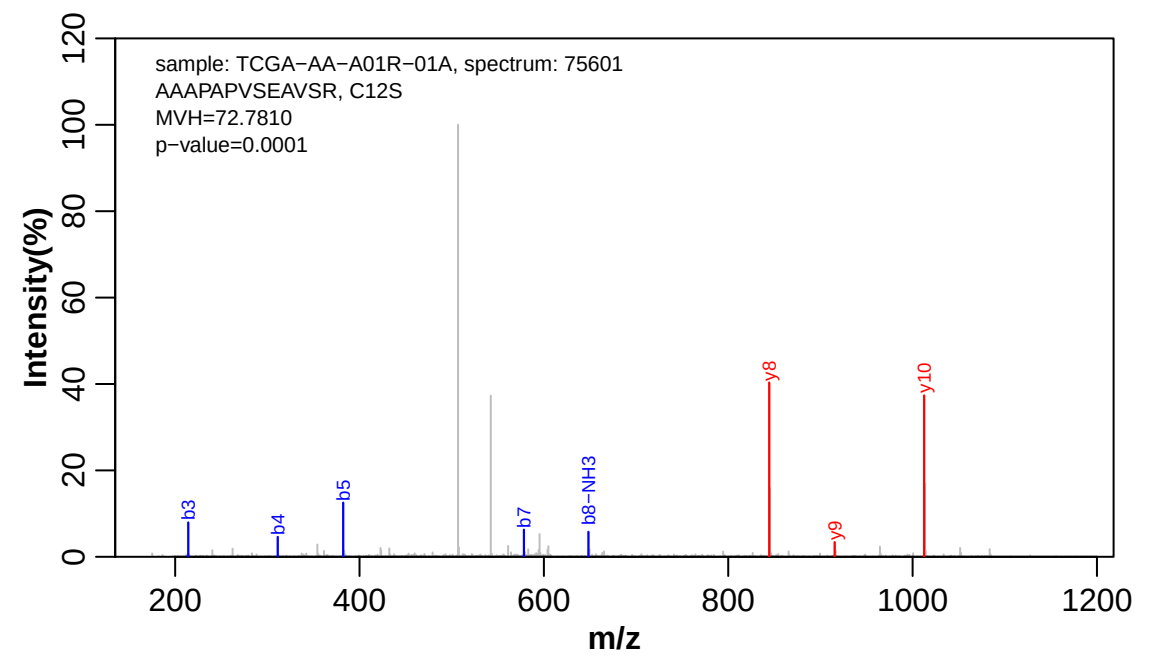

sample: TCGA−AA−A01P−01A, spectrum: 51234
VVLQPEALFSLYSK, F8L
MVH=58.9975
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y5
y6
b8
y9
y10
y11
y12

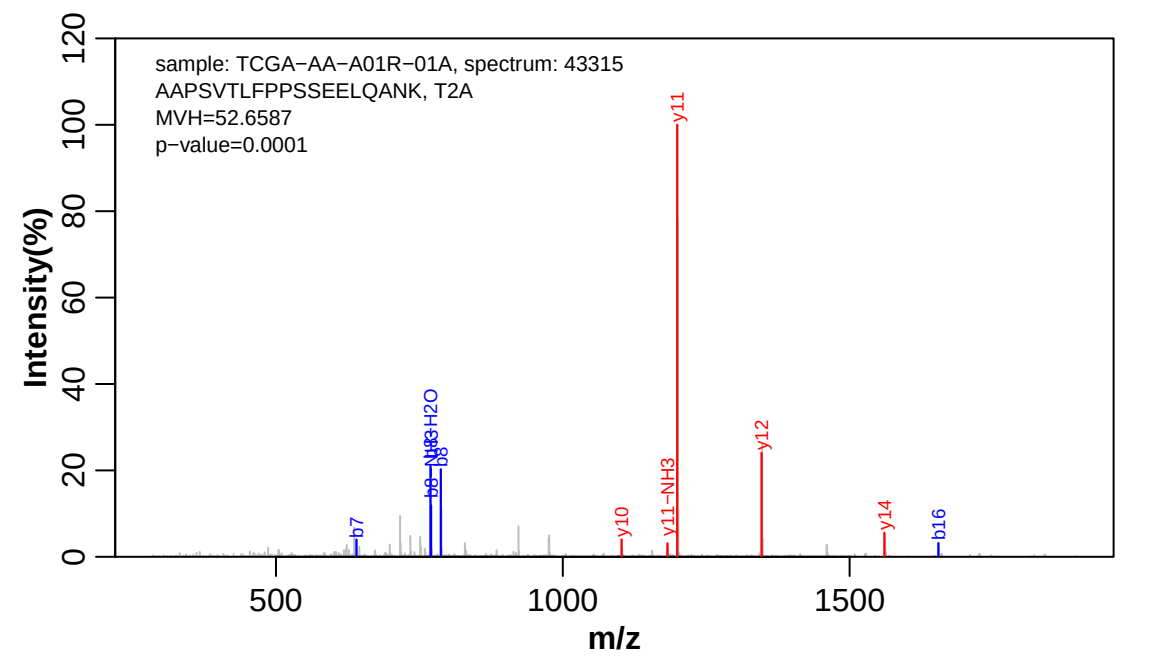

sample: TCGA−AA−A01P−01A, spectrum: 133226
VWQTVSPVESR, G10S
MVH=41.1282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4−H2O
b4
y5−NH3
y5
b5−NH3
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9−H2O
y9

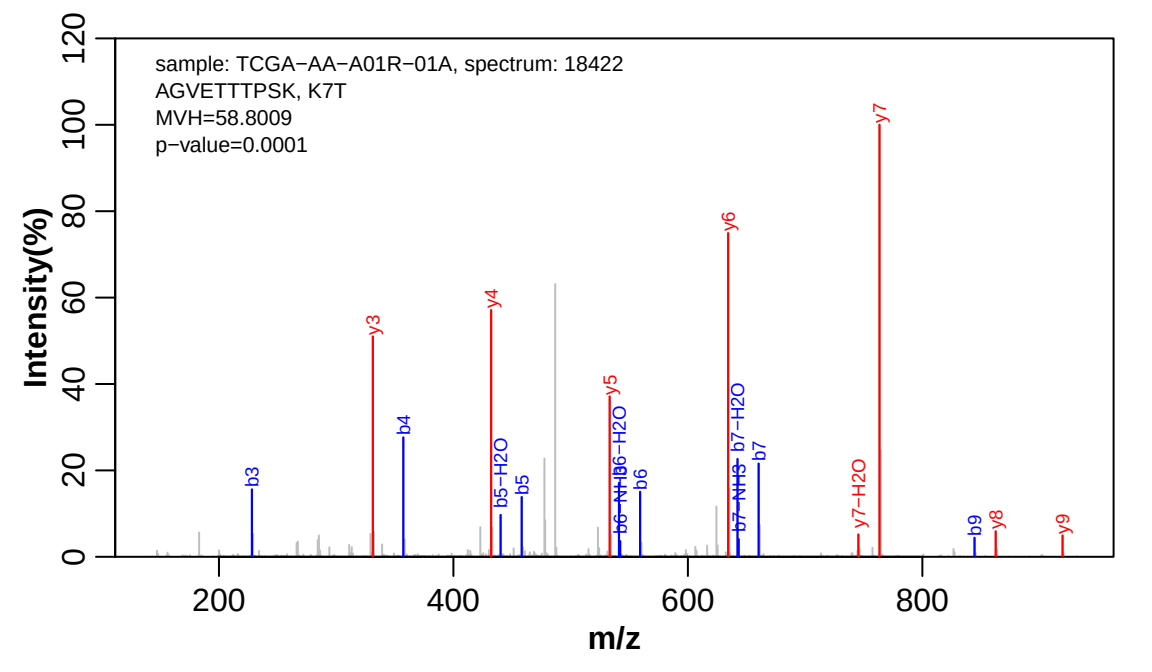

sample: TCGA−AA−A01P−01A, spectrum: 26392
YVSLLYTNYEAGK, I2V
MVH=41.2036
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y8
y9
y7
y6
y11
y10
b6
b10
b11
b12
b9
b8
b7
b5
b4−H2O
b4
b3−H2O
b3
y3
b2

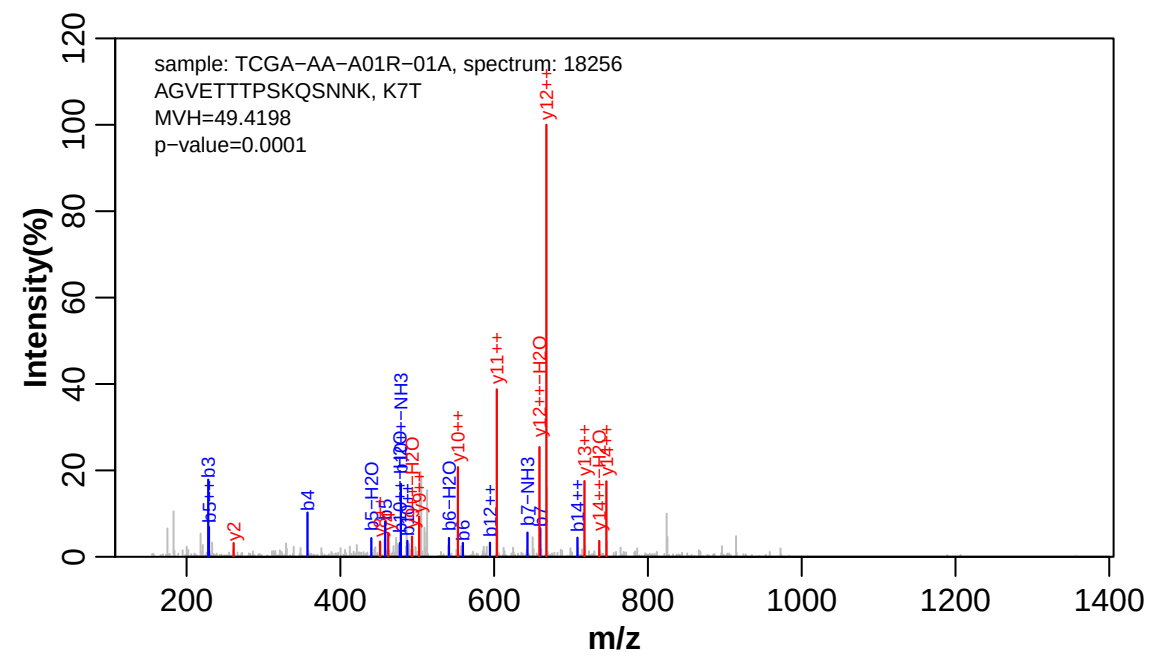

sample: TCGA−AA−A01P−01A, spectrum: 15434
YVSLLYTNYEAGKDDYVK, I2V
MVH=73.5689
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b3
y3
b4−H2O
b4
y4
b5
y5−NH3
y5
b6−NH3
b6
y6−H2O
y6
b7−H2O
b7
y8
y8−NH3
b8−NH3
b8
y9
b9
y10
y11−NH3
y11
b11
y12−NH3
y12
b13
y13
b14
y14−NH3
y14
b15
b16−NH3
b16
b17

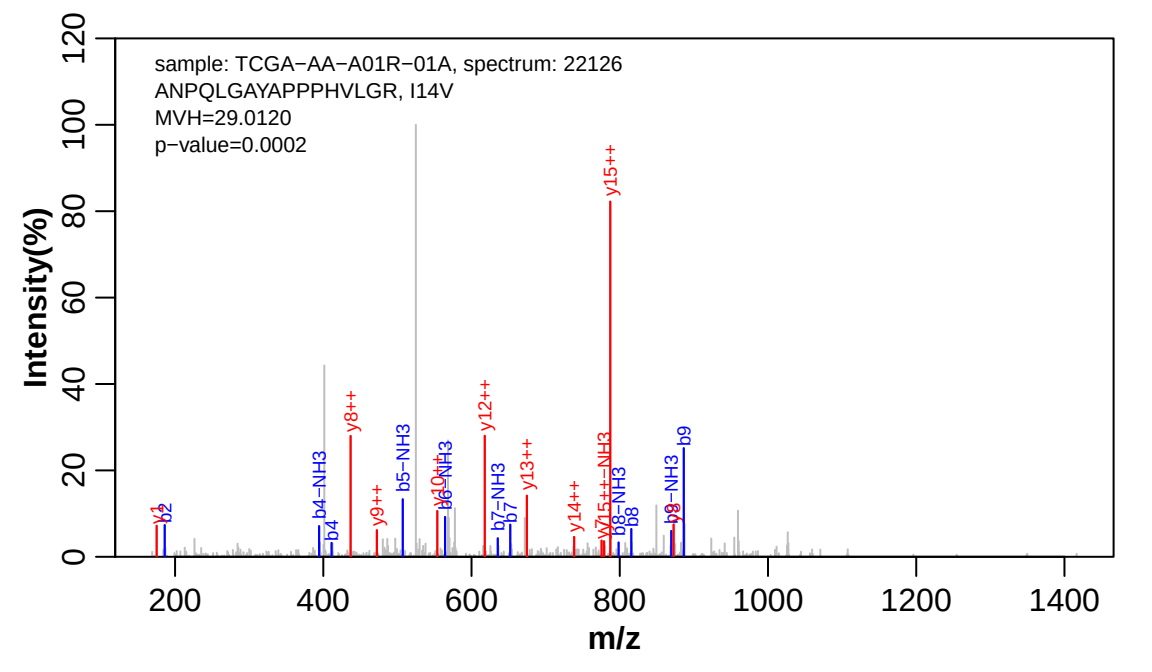

sample: TCGA−AA−A01R−01A, spectrum: 61064
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=48.7464
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5++−H2O
b5
y4
y5−NH3
b6
b7−H2O
b7
y6
b8−NH3
b8
b16++−H2O
b9−H2O
b9
y7
y15++−H2O
b20++−H2O
b21++
b13−H2O
b25++
y20++−H2O
y21++−H2O
b27++−H2O
b28++−NH3
b28++
y24++−H2O
b15−NH3
y15−H2O
b17
b18−NH3
b18
y17−NH3
b21

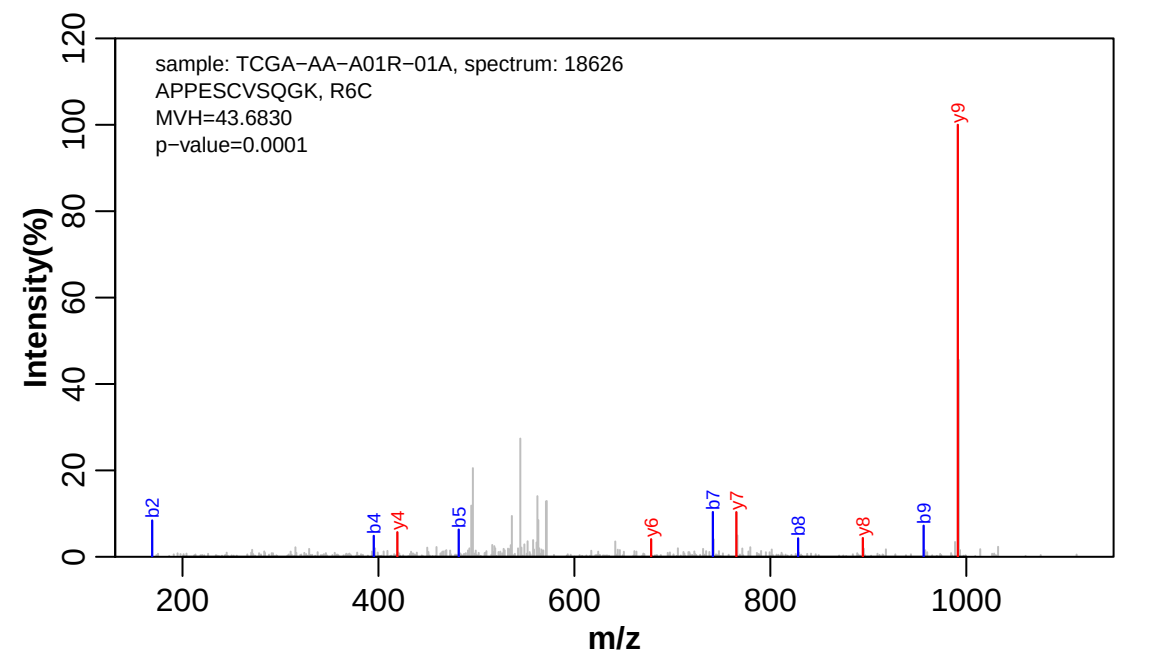

sample: TCGA−AA−A01R−01A, spectrum: 75601
AAAPAPVSEAVSR, C12S
MVH=72.7810
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b4
b5
b7
b8−NH3
y8
y9
y10

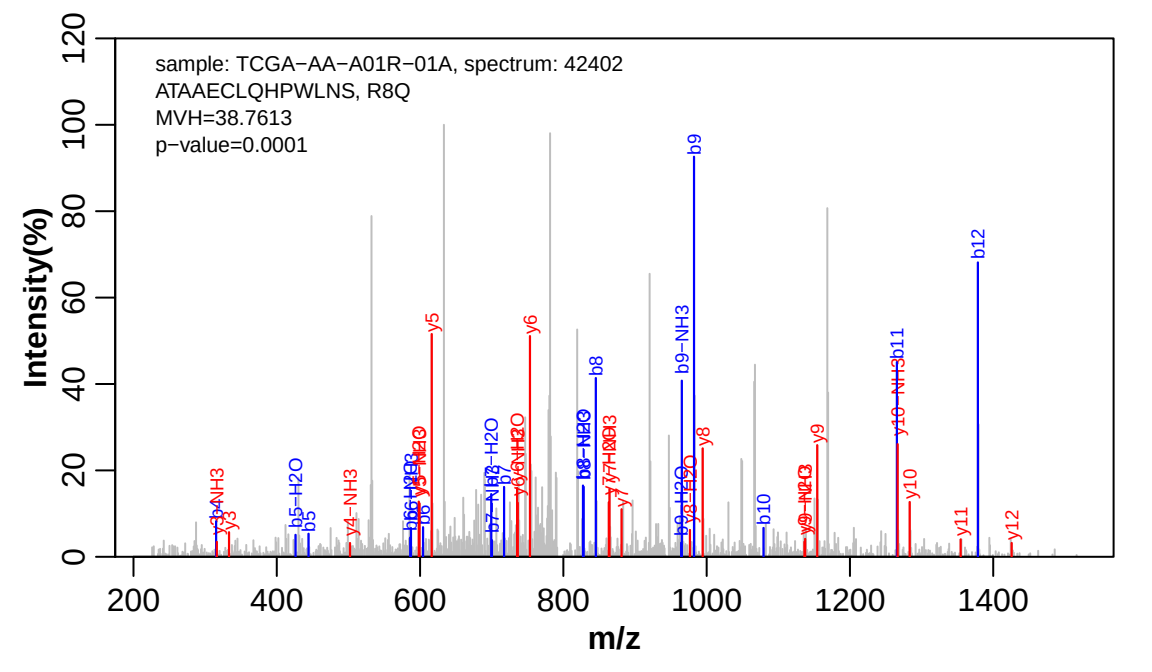

sample: TCGA−AA−A01R−01A, spectrum: 43315
AAPSVTLFPPSSEELQANK, T2A
MVH=52.6587
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
b8−H2O
b8−NH3
b8
y10
y11−NH3
y11
y12
y14
b16

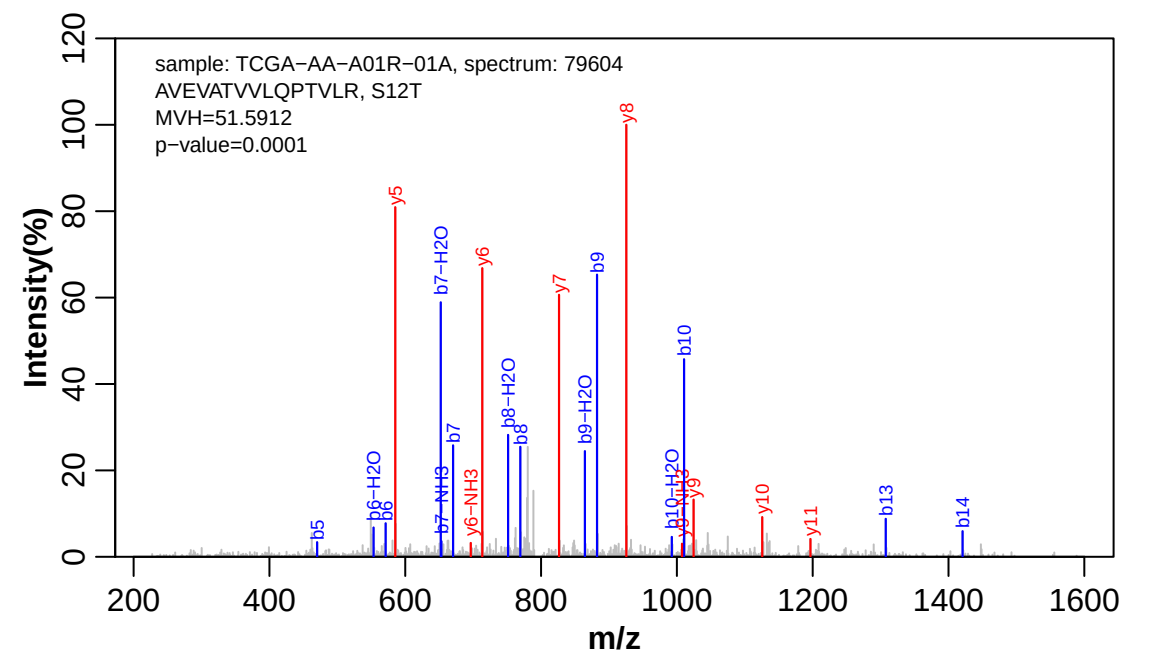

sample: TCGA−AA−A01R−01A, spectrum: 18422
AGVETTTPSK, K7T
MVH=58.8009
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7
b9
y8
y9

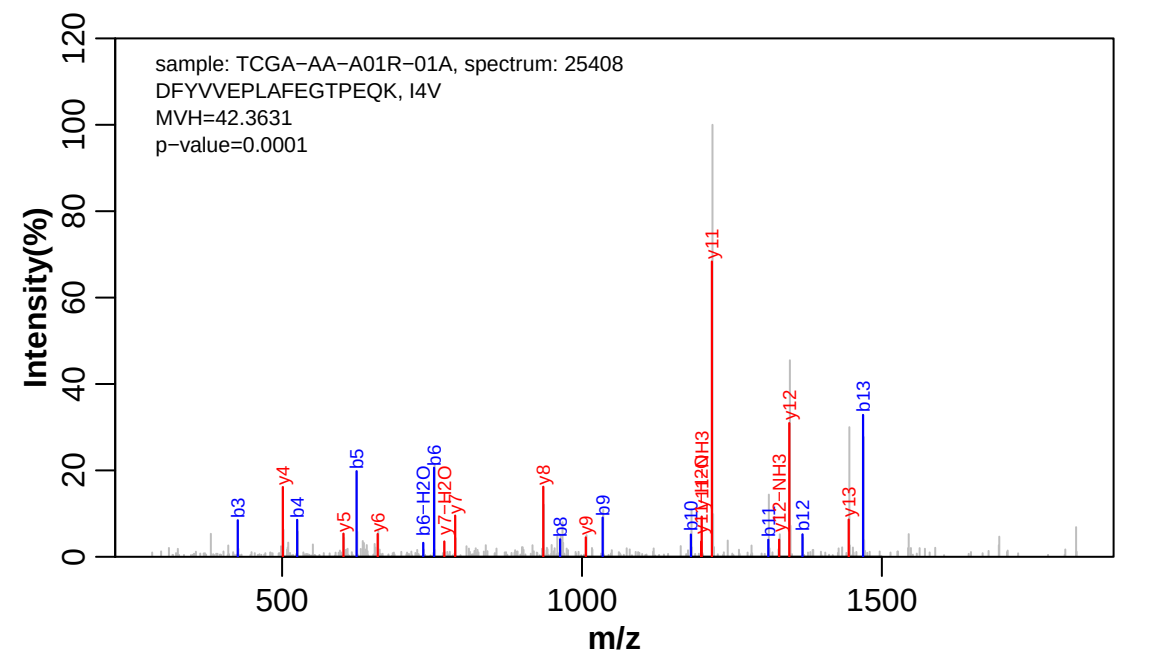

sample: TCGA−AA−A01R−01A, spectrum: 18256
AGVETTTPSKQSNNK, K7T
MVH=49.4198
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y12++
y11++
y12++−H2O
y12++−NH3
y10++
b5++b3
y2
b4
b5−H2O
b6−H2O
b6
b12++
b7−NH3
b7
b14++
y13++
y14++
y14++−H2O

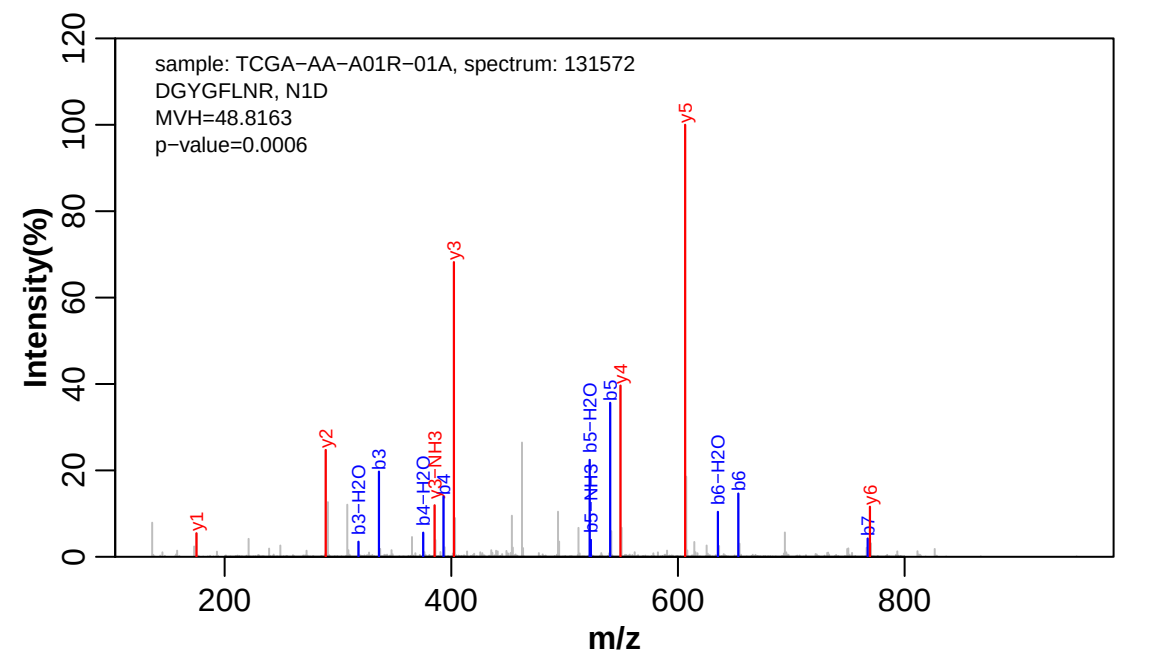

sample: TCGA−AA−A01R−01A, spectrum: 22126
ANPQLGAYAPPPHVLGR, I14V
MVH=29.0120
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y15++
y8++
y12++
b5−NH3
b4−NH3
y9++
y13++
b7−NH3
b9
b9−NH3
y14++
b8−NH3
b8
b7
b6−NH3
b6
b4
y1
b2

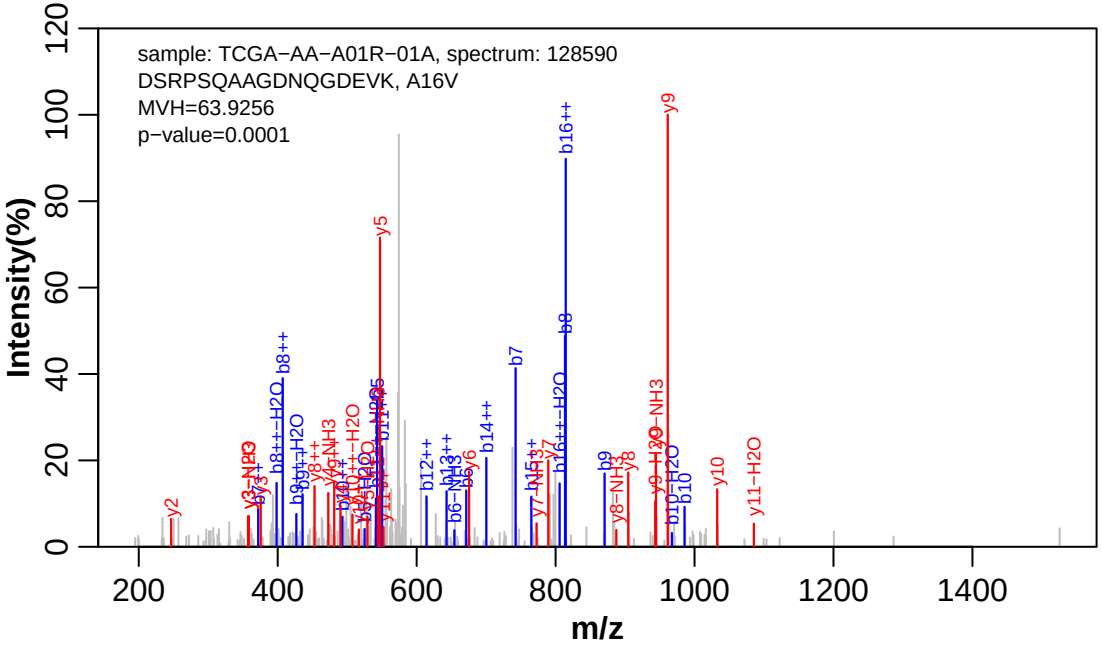

sample: TCGA−AA−A01R−01A, spectrum: 18626
APPESCVSQGK, R6C
MVH=43.6830
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
y4
b5
y6
b7
y7
b8
y8
b9
y9

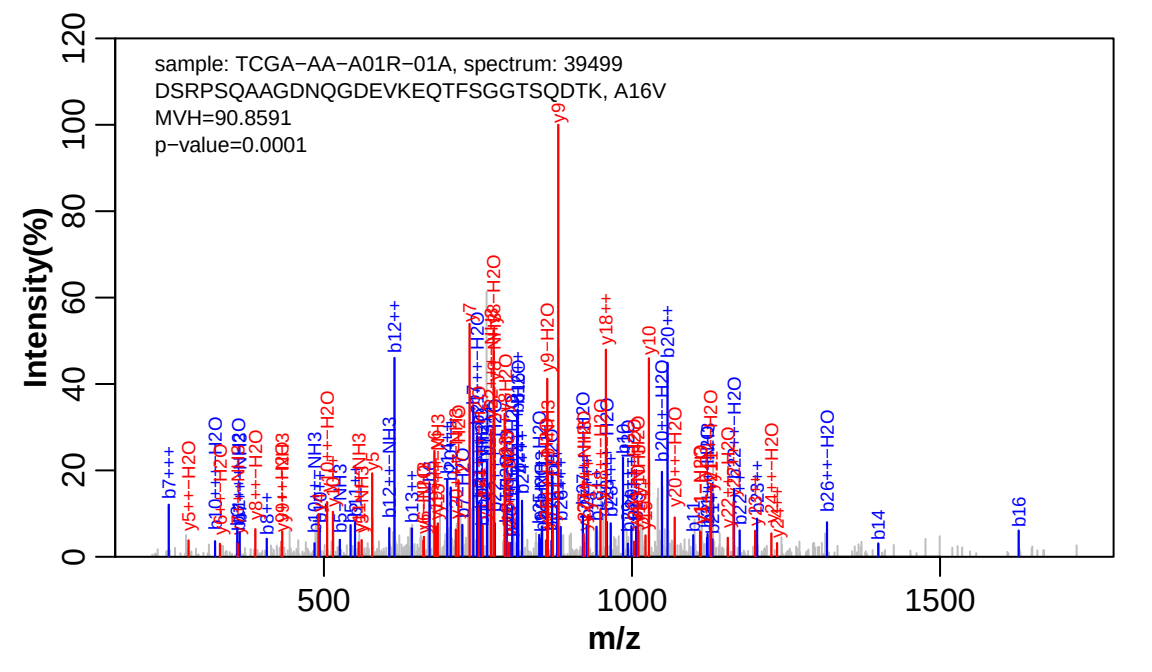

sample: TCGA−AA−A01R−01A, spectrum: 42402
ATAAECLQHPWLNS, R8Q
MVH=38.7613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b9
b12
y5
y6
b8
b9−NH3
y8
b11
y9
y10
y11
y12
b10
b5−H2O
b5
y4−NH3
y3
y3−NH3

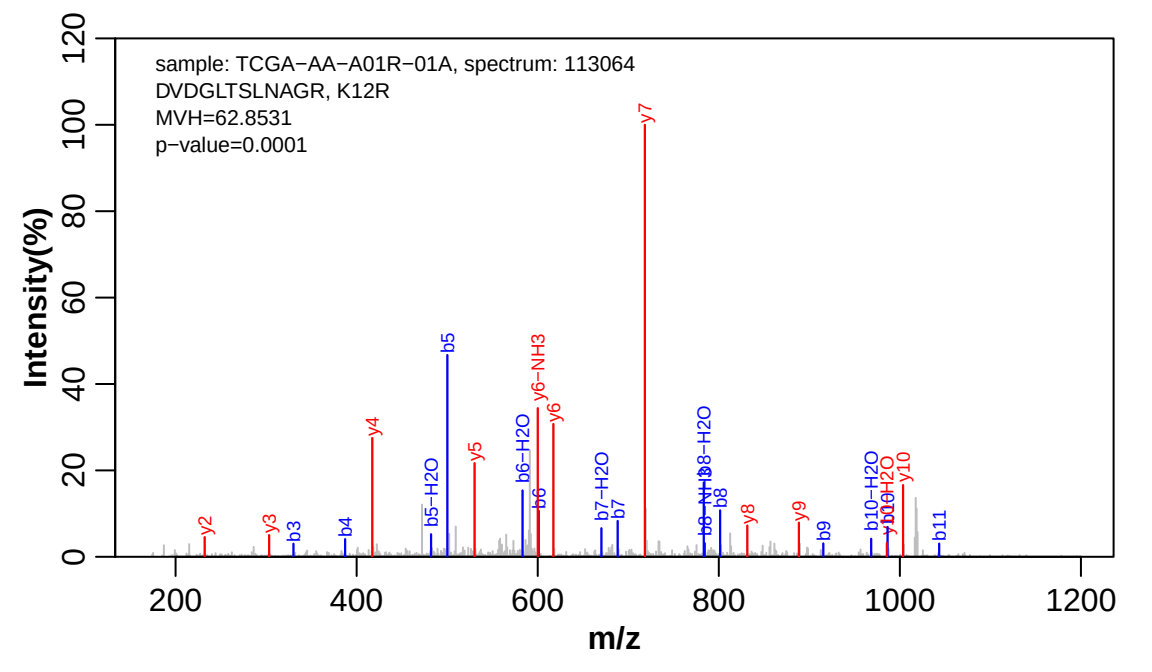

sample: TCGA−AA−A01R−01A, spectrum: 79604
AVEVATVVLQPTVLR, S12T
MVH=51.5912
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5
b6−H2O
b6
b7−NH3
b7
y6−NH3
y5
b7−H2O
y6
b8−H2O
b8
y7
b9−H2O
b9
y8
b10−H2O
b10−NH3
y9
b10
y10
y11
b13
b14

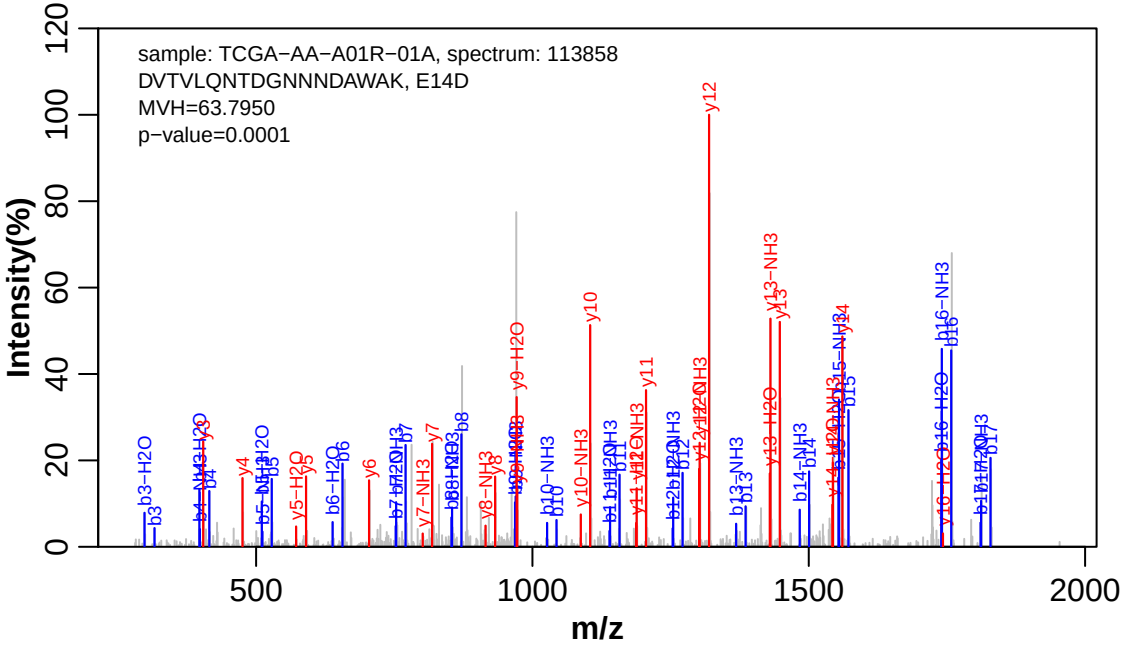

sample: TCGA−AA−A01R−01A, spectrum: 25408
DFYVVEPLAFEGTPEQK, I4V
MVH=42.3631
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6−H2O
b6
y7−H2O
y7
y8
b8
y9
b9
b10
y11
y11−NH3
b11
y12−NH3
y12
b12
y13
b13

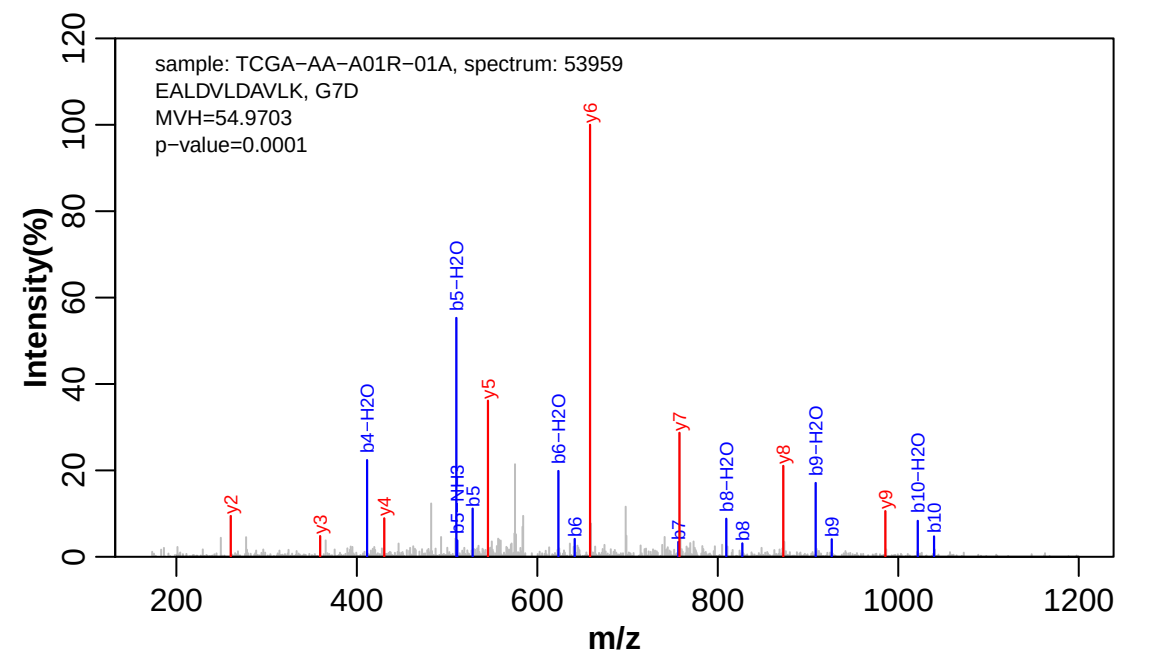

sample: TCGA−AA−A01R−01A, spectrum: 131572
DGYGFLNR, N1D
MVH=48.8163
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

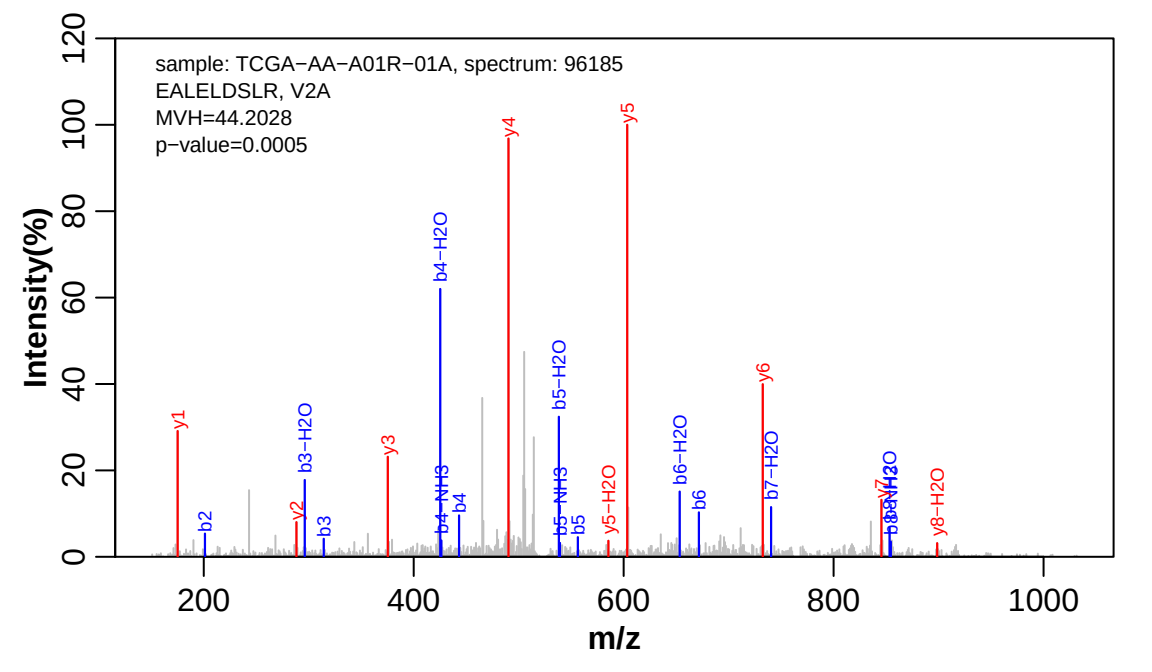

sample: TCGA−AA−A01R−01A, spectrum: 128590
DSRPSQAAGDNQGDEVK, A16V
MVH=63.9256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y5
y9
b16++
b8++
b8
b7
b14++
b12++
y10
y11−H2O

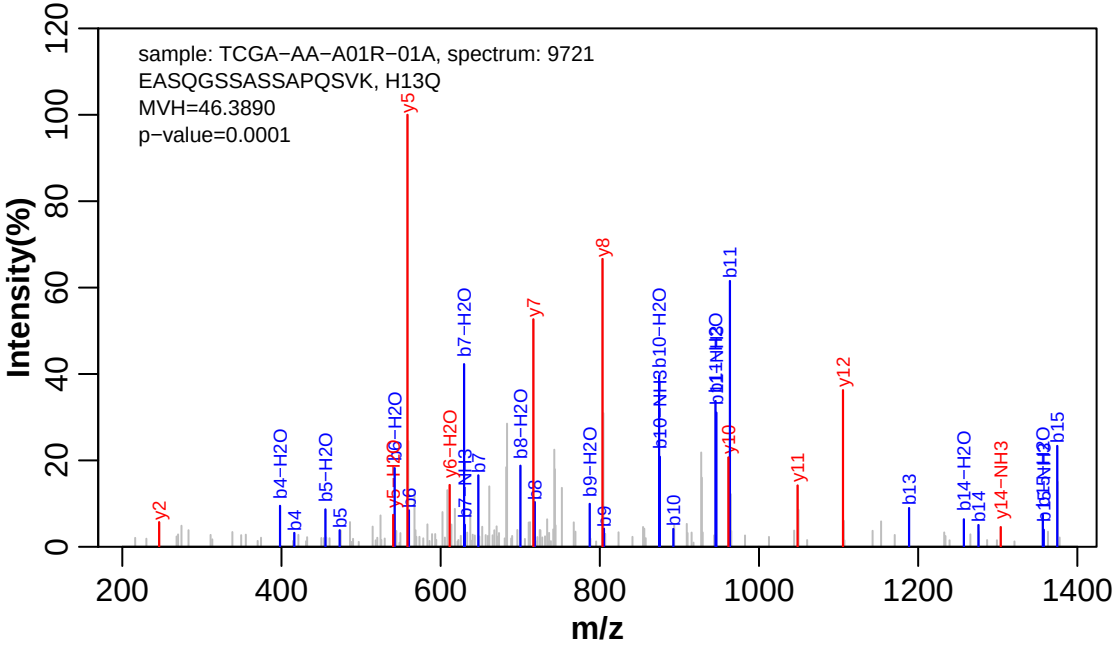

sample: TCGA−AA−A01R−01A, spectrum: 39499
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=90.8591
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
b12++
y9−H2O
y18++
b20++
y10
b7+++
y5++−H2O
b26++−H2O
b14
b16

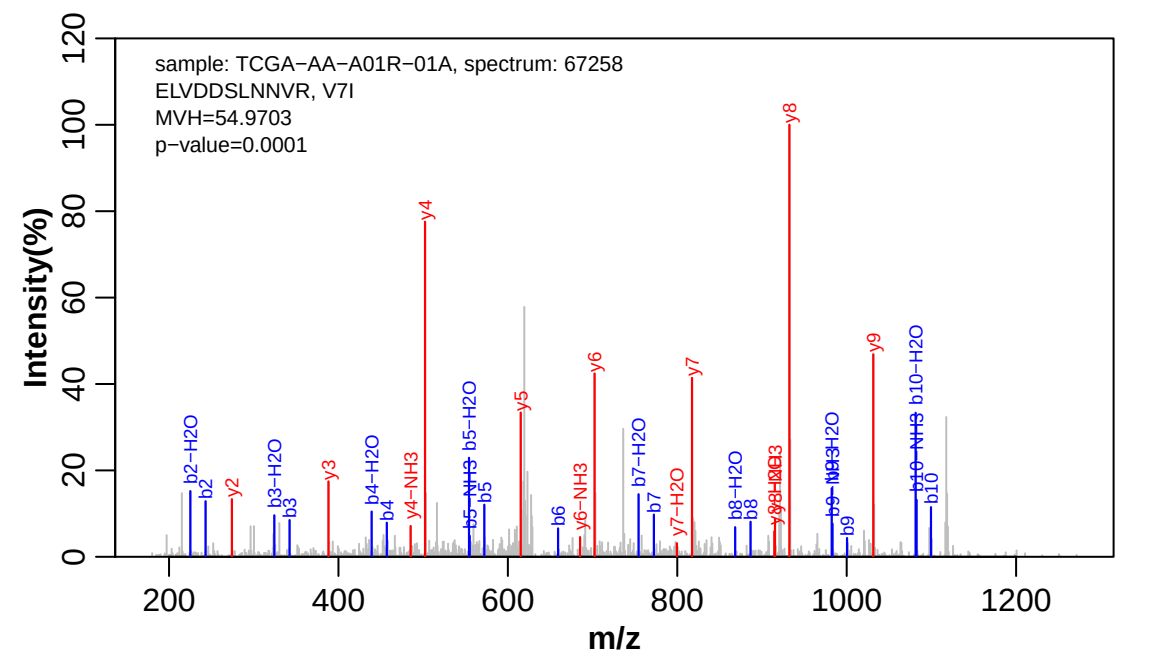

sample: TCGA−AA−A01R−01A, spectrum: 113064
DVDGLTSLNAGR, K12R
MVH=62.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−H2O
y6−NH3
y6
b6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9
b9
b10−H2O
y10−H2O
y10
b11

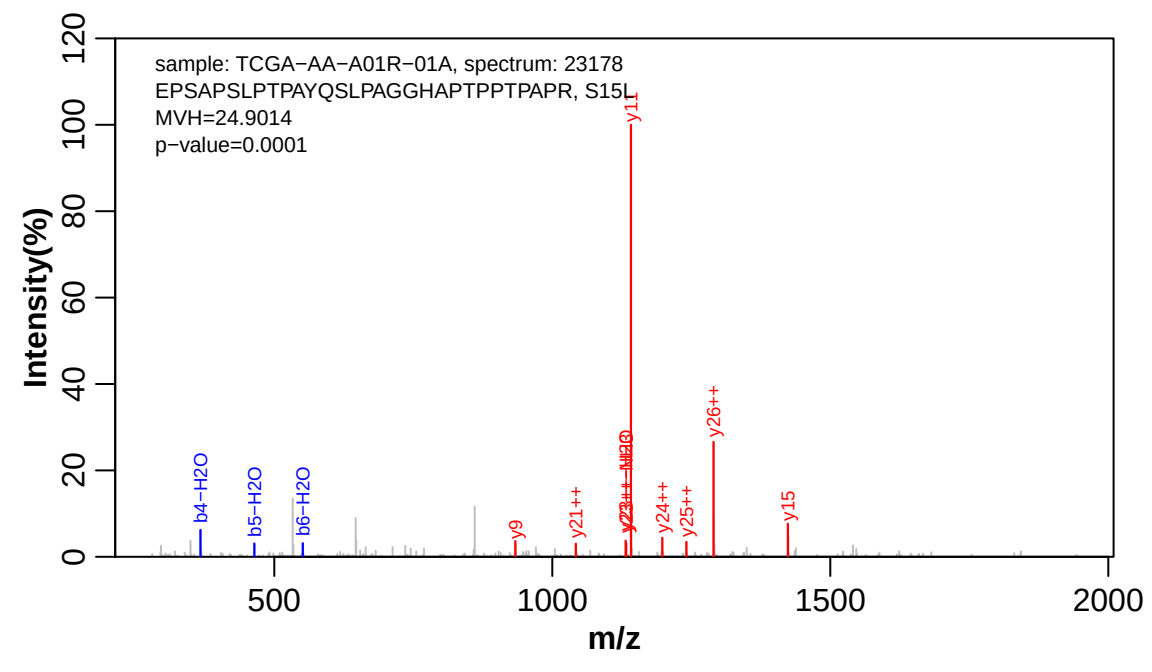

sample: TCGA−AA−A01R−01A, spectrum: 113858
DVTVLQNTDGNNNDAWAK, E14D
MVH=63.7950
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y9−H2O
y13−NH3
y13
y11
b16−NH3
b16
b3−H2O
b3
y4
y5
y5−H2O
b6−H2O
b6
y6
y7
y7−NH3
b8
y8−NH3
y8
b10−NH3
b10
b14−NH3
b14
b13−NH3
b13
b17
b17−NH3

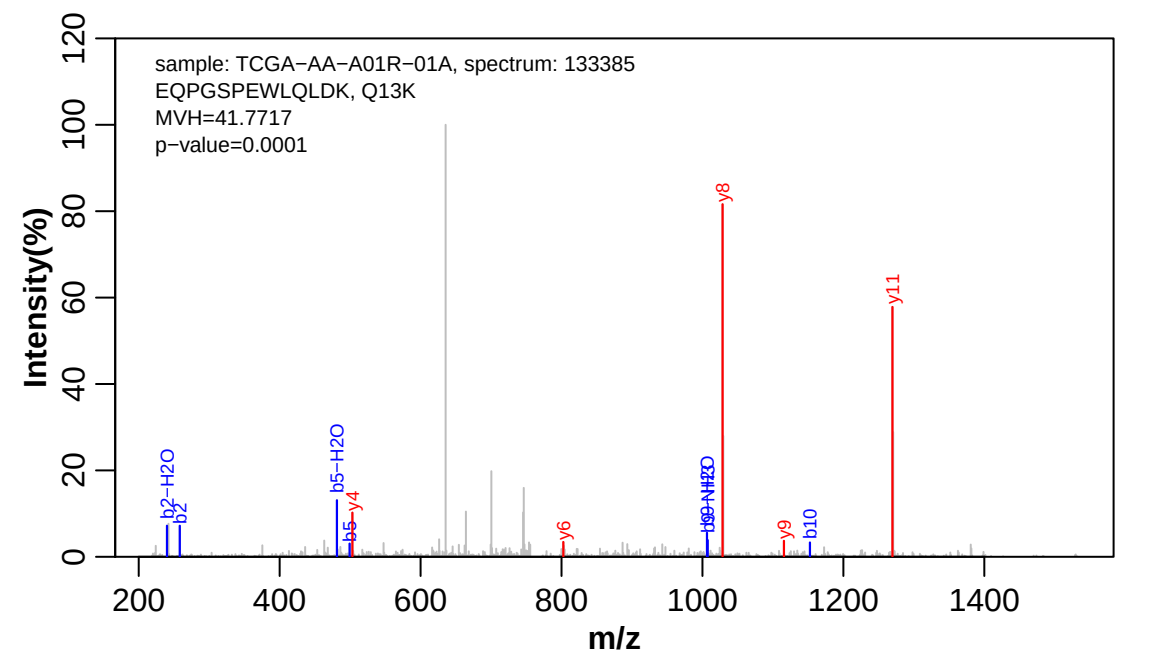

sample: TCGA−AA−A01R−01A, spectrum: 53959
EALDVLDAVLK, G7D
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6
b6−H2O
y6
b7
y7
b8
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O

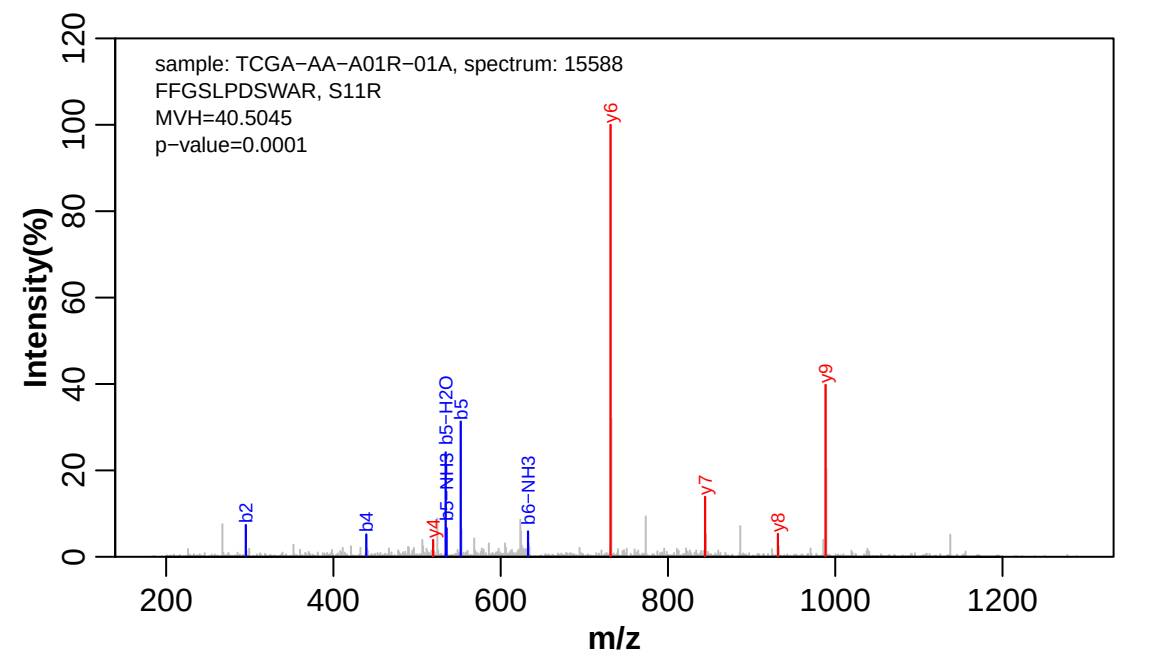

sample: TCGA−AA−A01R−01A, spectrum: 96185
EALELDSLR, V2A
MVH=44.2028
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3
b4−H2O
b4−NH3
b4
y4
b5−H2O
b5−NH3
b5
y5−H2O
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−NH3
b8−H2O
y8−H2O

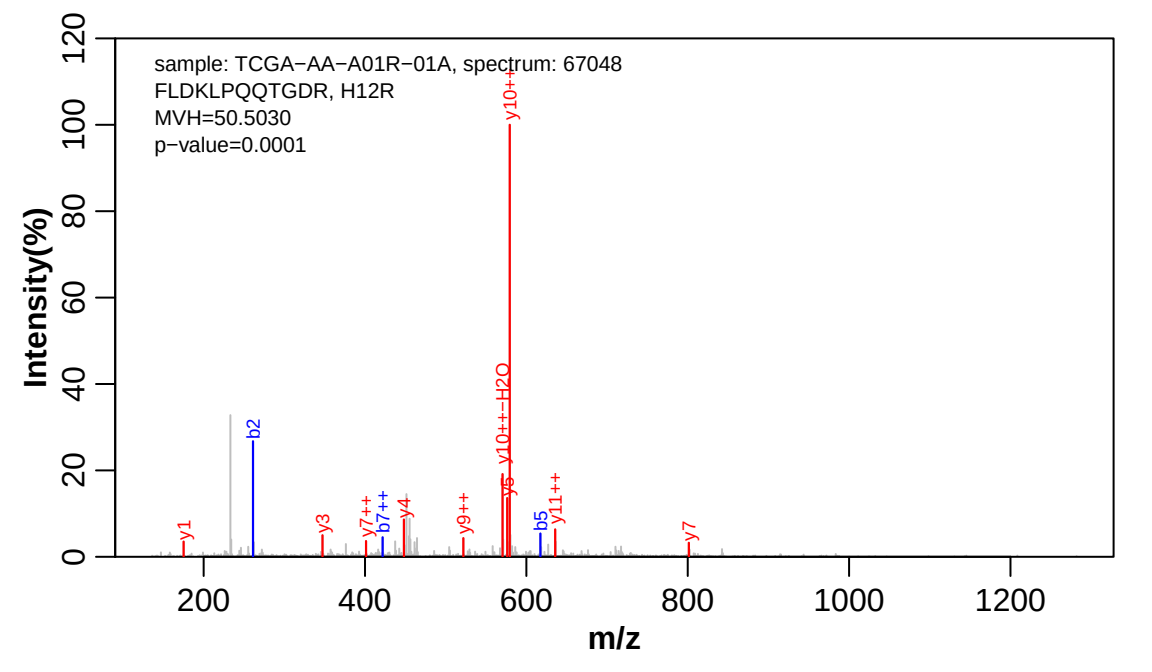

sample: TCGA−AA−A01R−01A, spectrum: 9721
EASQGSSASSAPQSVK, H13Q
MVH=46.3890
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−H2O
b4
b5−H2O
b5
y5−H2O
y5
b6
y6−H2O
b7−H2O
b7−NH3
b7
b8−H2O
y7
b8
y8
b9−H2O
b9
b10−NH3
b10−H2O
b10
b11−NH3
b11−H2O
b11
y10
y11
y12
b13
b14−H2O
b14
y14−NH3
b15−NH3
b15−H2O
b15

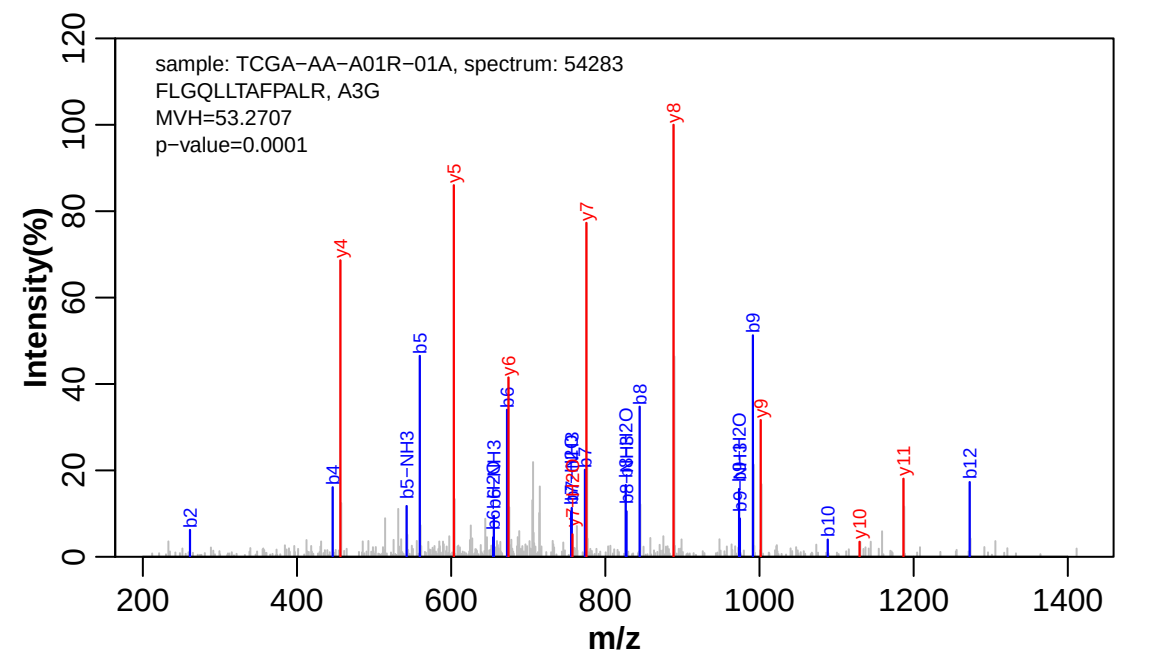

sample: TCGA−AA−A01R−01A, spectrum: 67258
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6
y6−NH3
y6
b7−H2O
b7
y7−H2O
y7
b8−H2O
b8
y8−NH3
y8
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

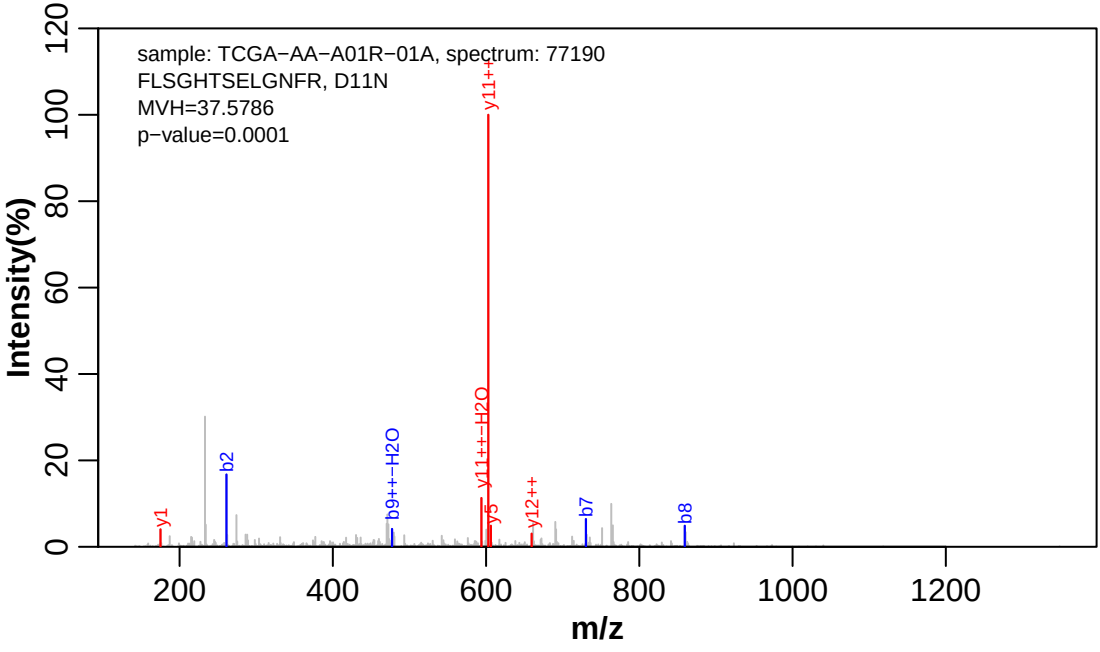

sample: TCGA−AA−A01R−01A, spectrum: 23178
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=24.9014
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
b5−H2O
b6−H2O
y9
y21++
y24++
y25++
y26++
y15

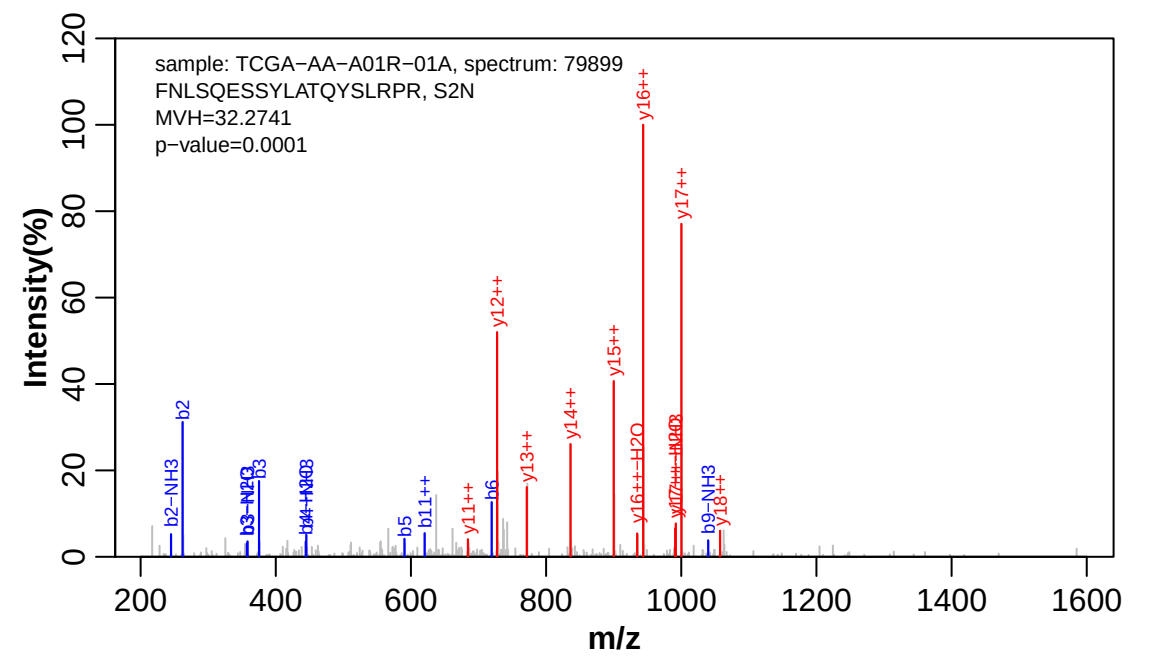

sample: TCGA−AA−A01R−01A, spectrum: 133385
EQPGSPEWLQLDK, Q13K
MVH=41.7717
p−value=0.0001
Intensity(%)
m/z
b2−H2O
b2
b5−H2O
b5
y4
y6
y8
y11
y9
b10

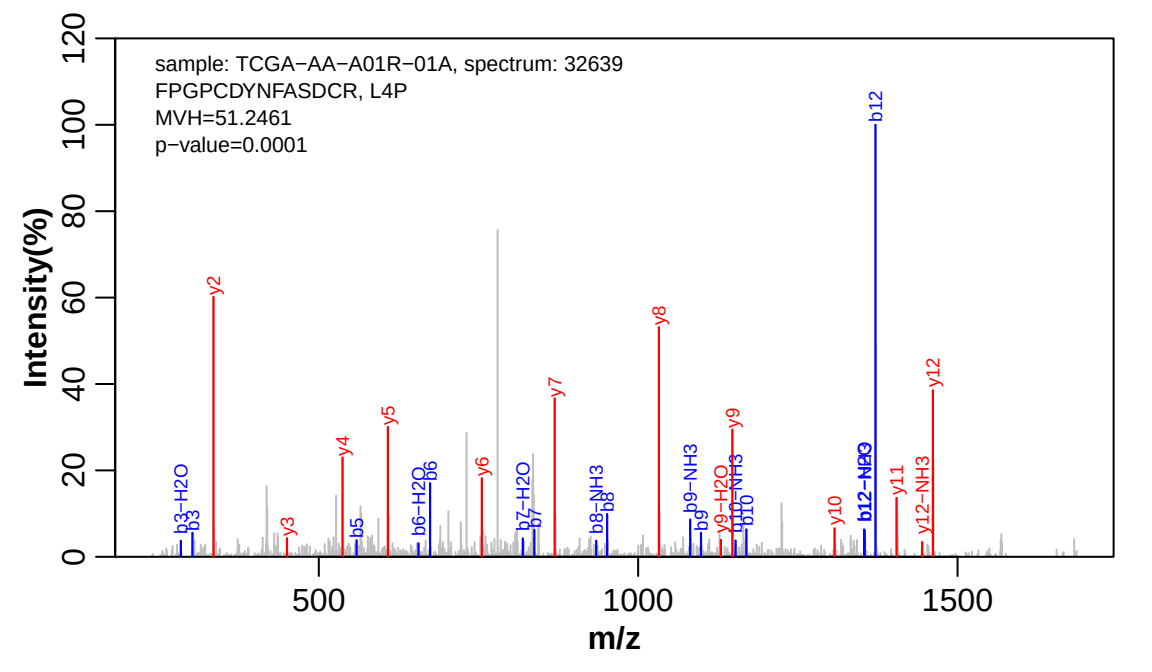

sample: TCGA−AA−A01R−01A, spectrum: 15588
FFGSLPDSWAR, S11R
MVH=40.5045
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

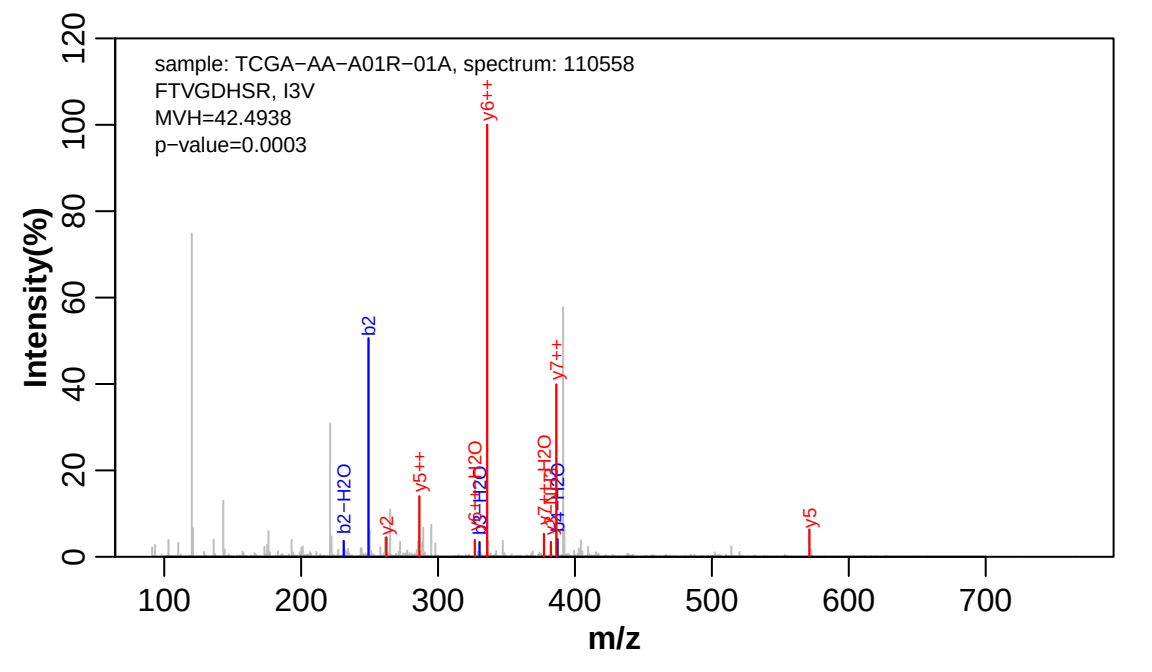

sample: TCGA−AA−A01R−01A, spectrum: 67048
FLDKLPQQTGDR, H12R
MVH=50.5030
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
b2
y1
y3
y7++
b7++
y4
y9++
y5
b5
y11++
y7
0
20
40
60
80
100
120
200
400
600
800
1000
1200

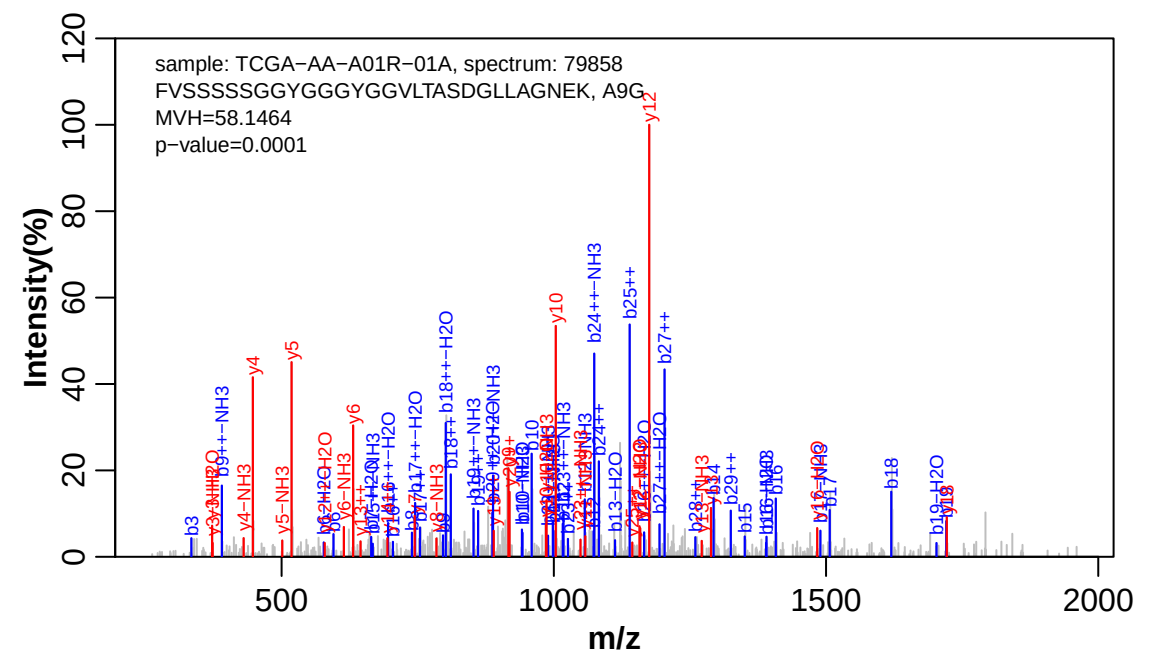

sample: TCGA−AA−A01R−01A, spectrum: 54283
FLGQLLTAFPALR, A3G
MVH=53.2707
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
y4
b5−NH3
b5
y5
b6
y6
y7
b8
y8
b9
y9
b10
y10
y11
b12

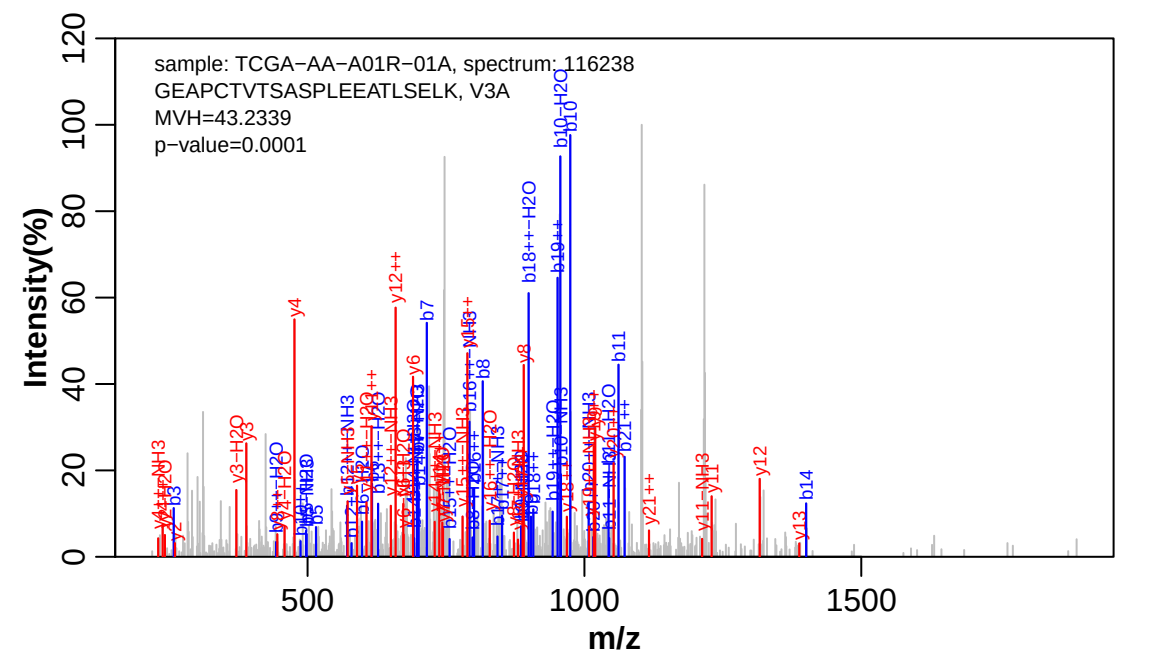

sample: TCGA−AA−A01R−01A, spectrum: 77190
FLSGHTSELGNFR, D11N
MVH=37.5786
p−value=0.0001
Intensity(%)
m/z
y11++
y11++−H2O
b9++−H2O
b2
y1
y5
y12++
b7
b8

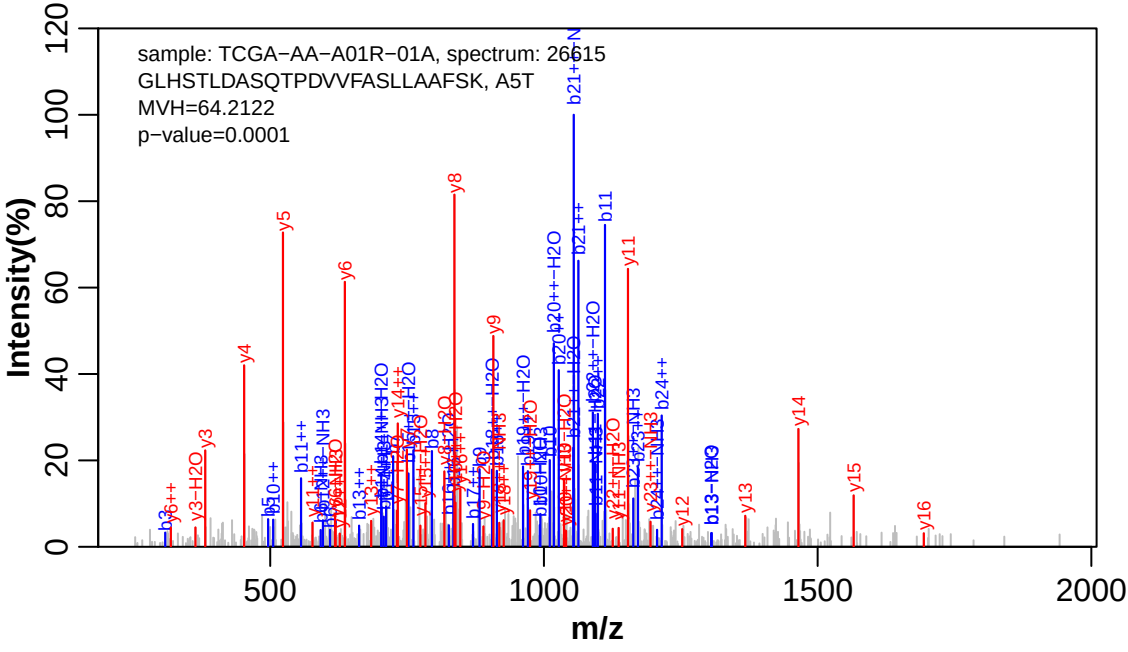

sample: TCGA−AA−A01R−01A, spectrum: 79899
FNLSQESSYLATQYSLRPR, S2N
MVH=32.2741
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b2−NH3
b3
b5
b11++
y11++
b6
y12++
y13++
y14++
y15++
y16++−H2O
y16++
y17++
b9−NH3
y18++

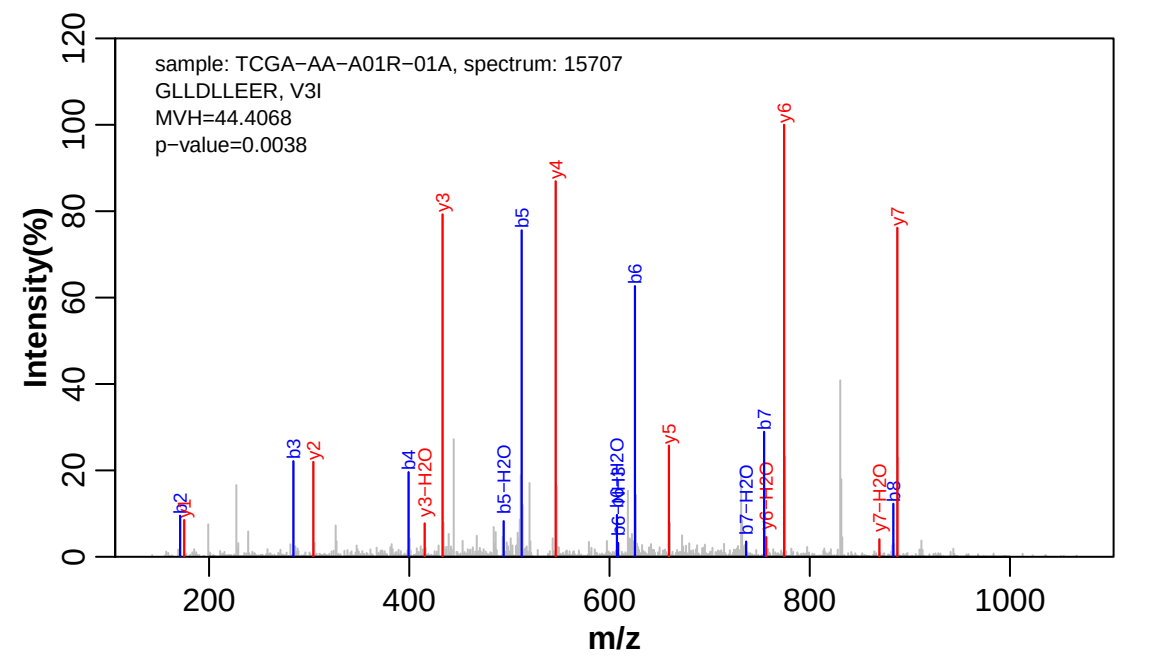

sample: TCGA−AA−A01R−01A, spectrum: 32639
FPGPCDYNFASDCR, L4P
MVH=51.2461
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b12
y2
y8
y12
y7
y5
y4
y9
y6
y11
y10
y3
b12−NH3
b12−H2O
b3−H2O
b3
b5
b6−H2O
b6
b7−H2O
b7
b8−NH3
b8
b9−NH3
b9
y9−H2O
y9−NH3
b10
y12−NH3

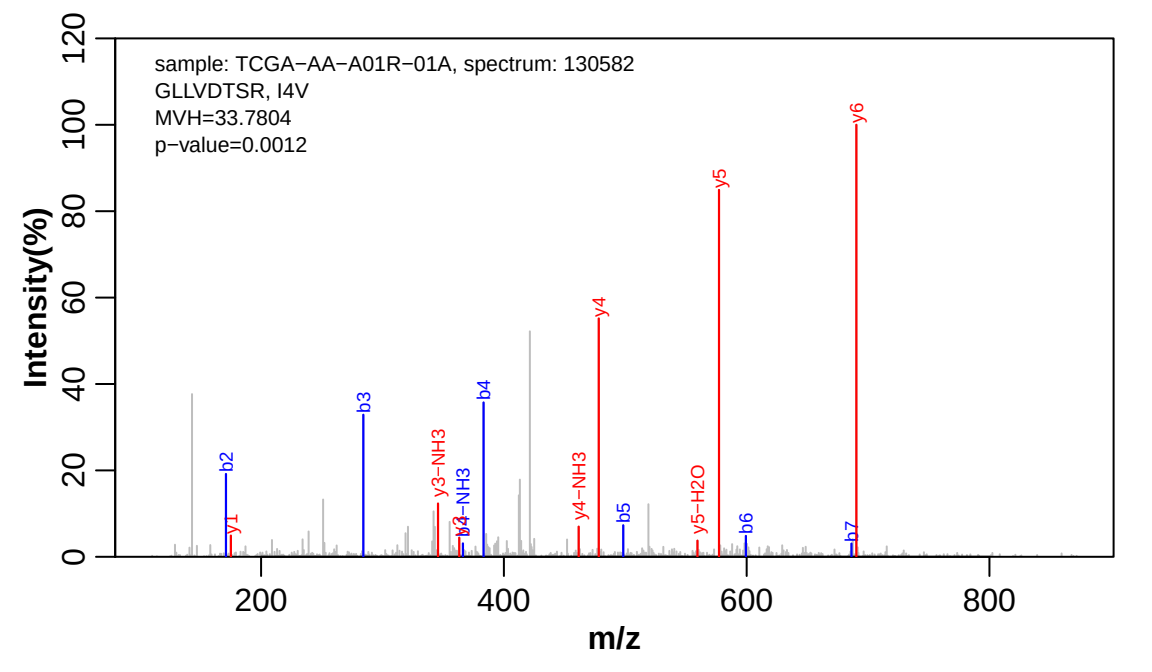

sample: TCGA−AA−A01R−01A, spectrum: 110558
FTVGDHSR, I3V
MVH=42.4938
p−value=0.0003
Intensity(%)
m/z
b2
b2−H2O
y2
y5++
y6++
y7++
y5
0
20
40
60
80
100
120
100
200
300
400
500
600
700

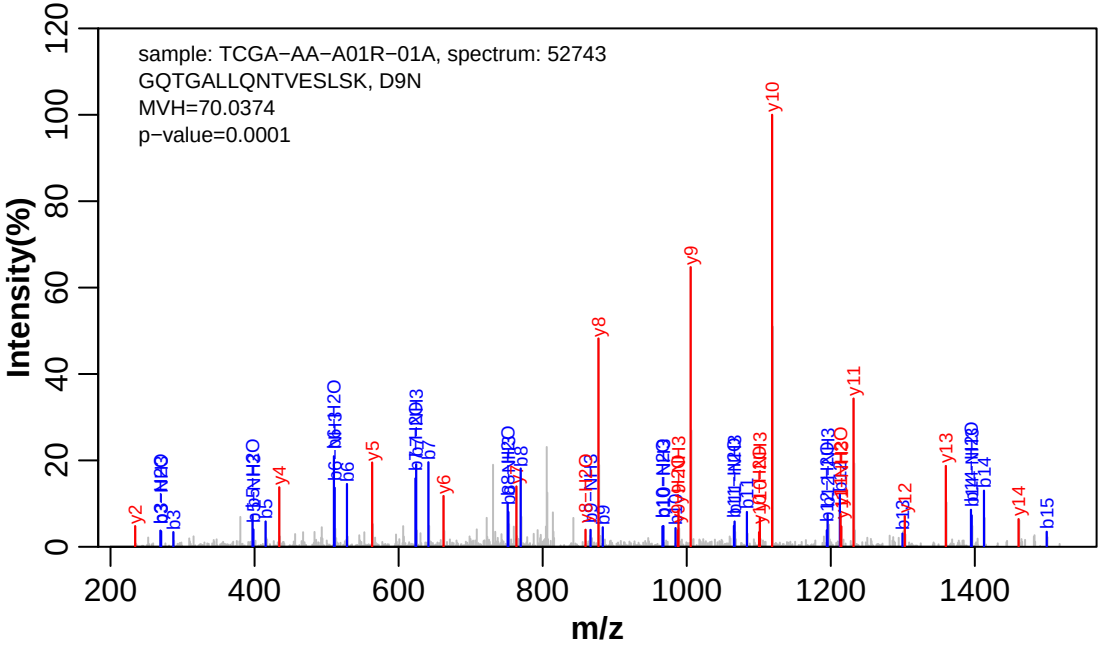

sample: TCGA−AA−A01R−01A, spectrum: 79858
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=58.1464
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y10
y5
y4
y6
b24++−NH3
b25++
b27++
b18
b3
y4−NH3
y5−NH3
b13−H2O
b18++−H2O
b18−H2O

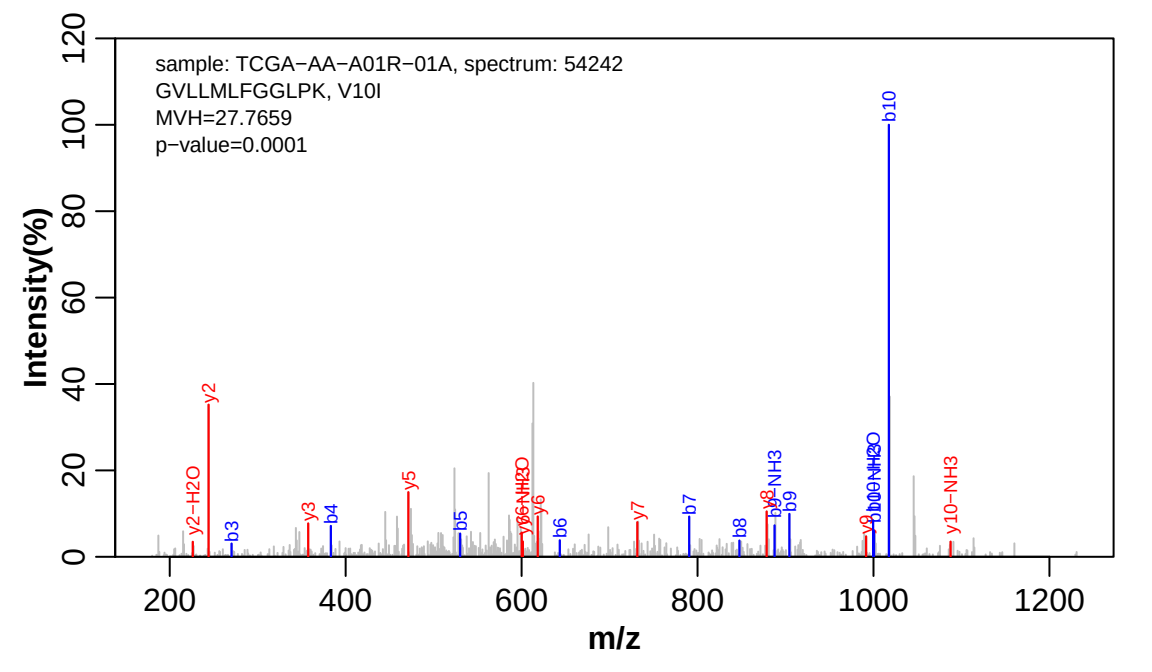

sample: TCGA−AA−A01R−01A, spectrum: 116238
GEAPCTVTSASPLEEATLSELK, V3A
MVH=43.2339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y3−H2O
y3
b10−H2O
b10
b18++−H2O
b19++
y12++
b7
b11
y21++
y12
y11−NH3
b14
y13

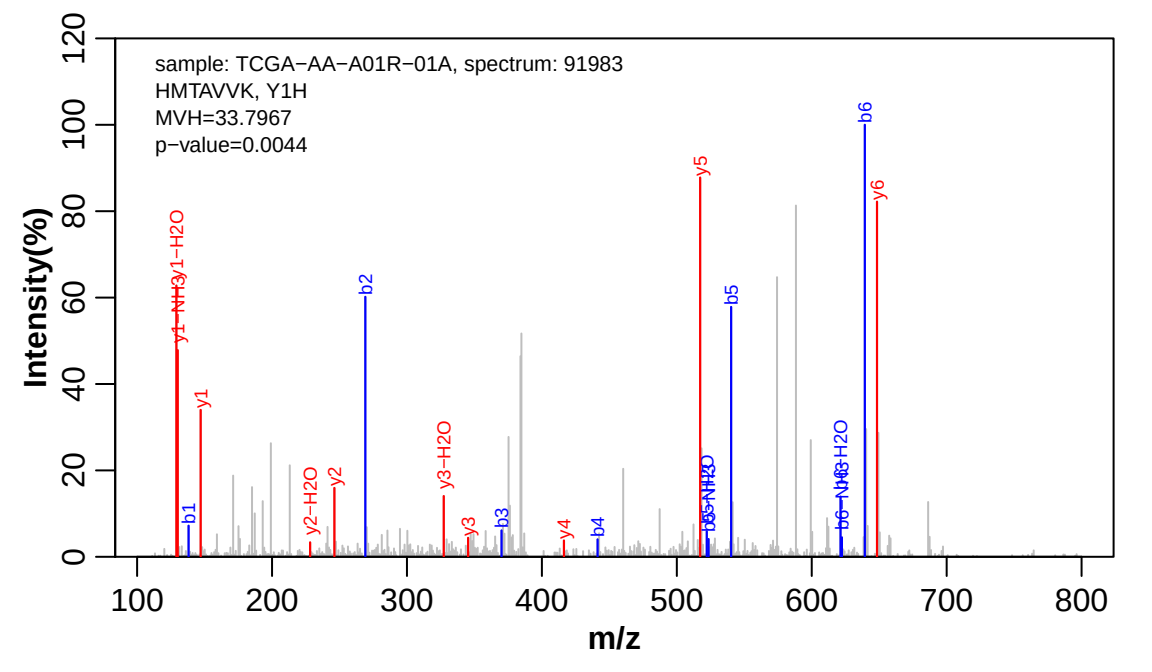

sample: TCGA−AA−A01R−01A, spectrum: 26615
GLHSTLDASQTPDVVFASLLAAFSK, A5T
MVH=64.2122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y5
y4
y6
y3
y9
b11
y11
b21++
b21++−N
b20++−H2O
y14
y15
y13
y16
y12
b24++
b13−N2O3

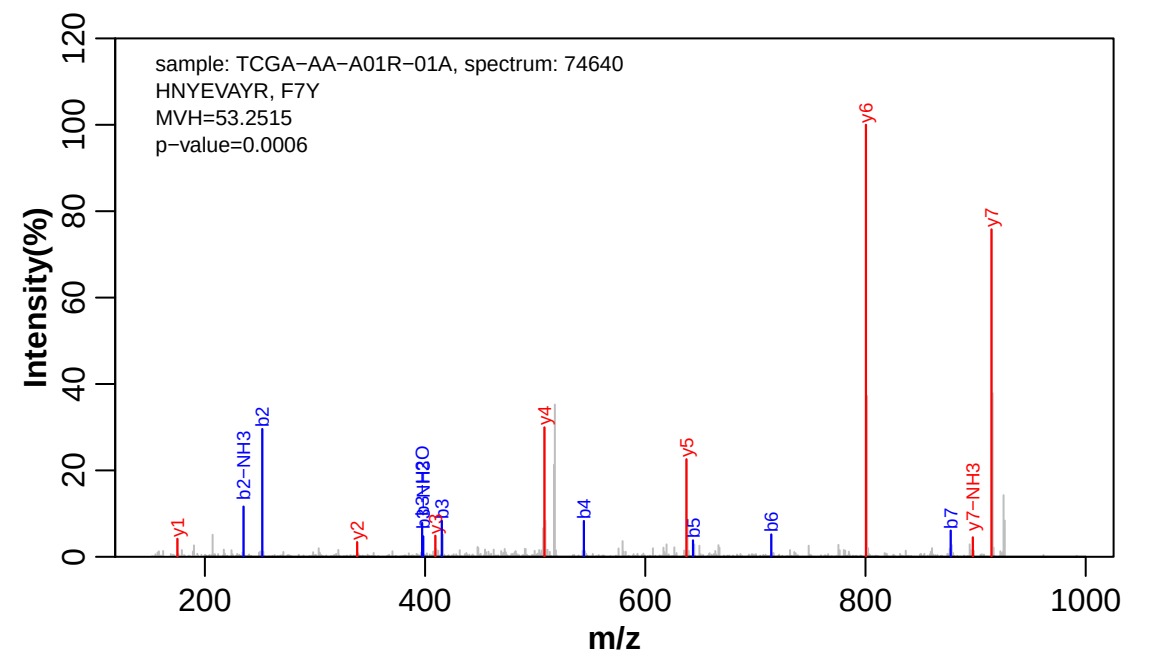

sample: TCGA−AA−A01R−01A, spectrum: 15707
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
b3
y3
b4
y3−H2O
b5
b5−H2O
y4
b6
y5
b7
b7−H2O
y6
y6−H2O
y7
y7−H2O
b8

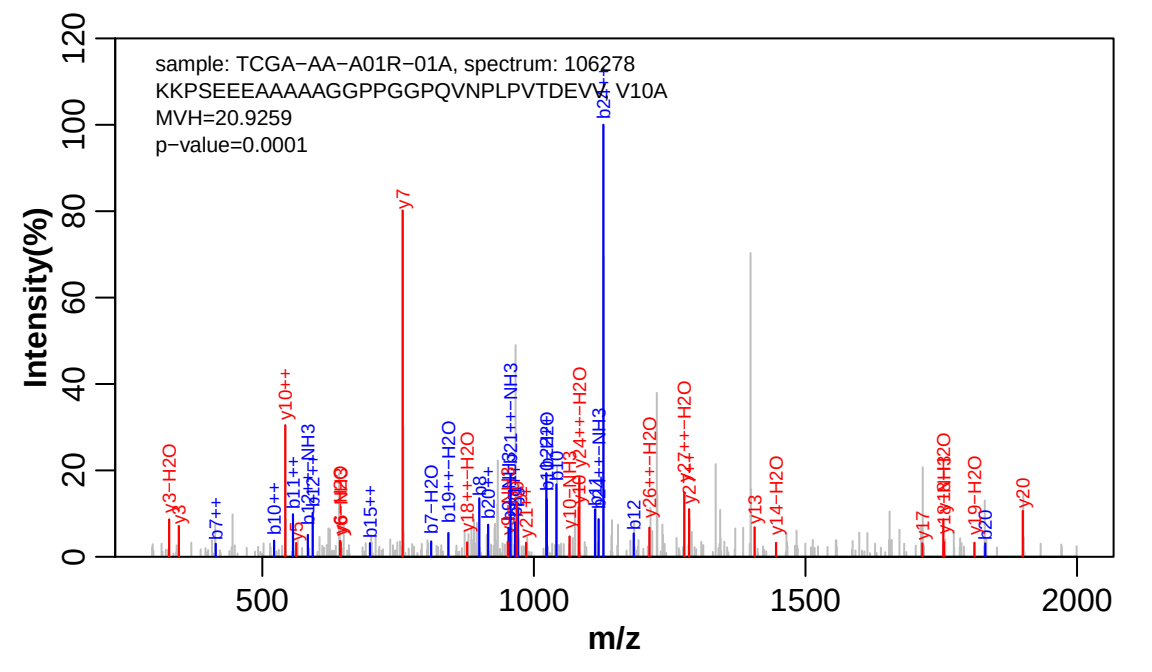

sample: TCGA−AA−A01R−01A, spectrum: 130582
GLLVDTSR, I4V
MVH=33.7804
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3−NH3
b4
b4−NH3
y4
y4−NH3
b5
y5
y5−H2O
b6
y6
b7

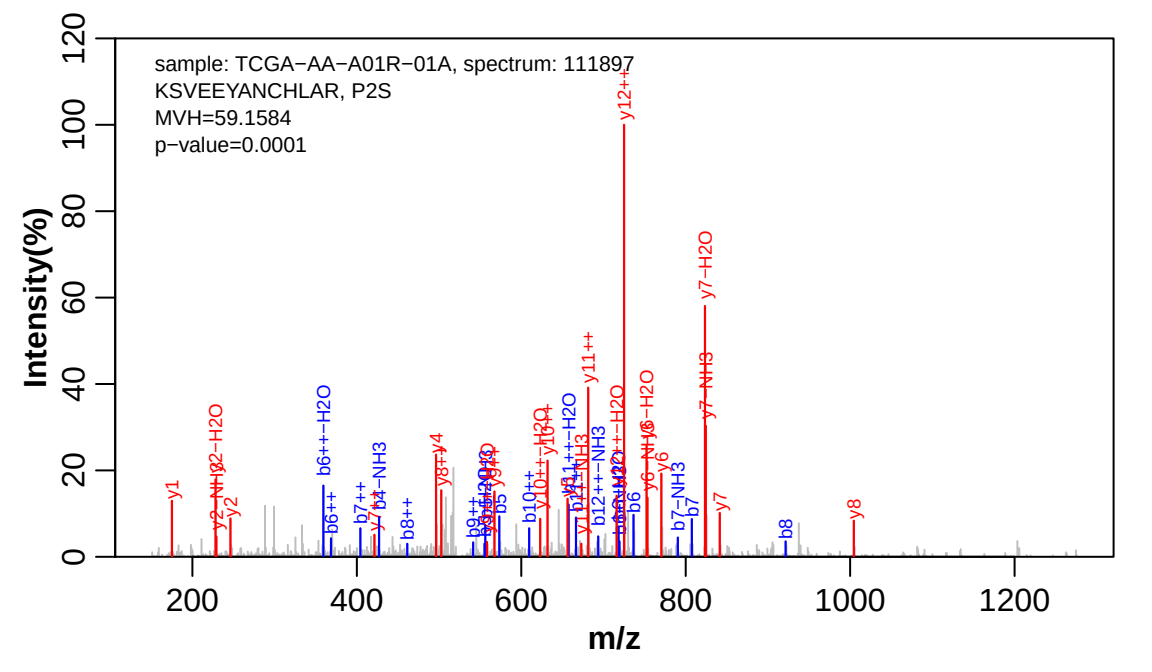

sample: TCGA−AA−A01R−01A, spectrum: 52743
GQTGALLQNTVESLSK, D9N
MVH=70.0374
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y4
y5
y6
y8
y9
y10
y11
y13
y14
b15

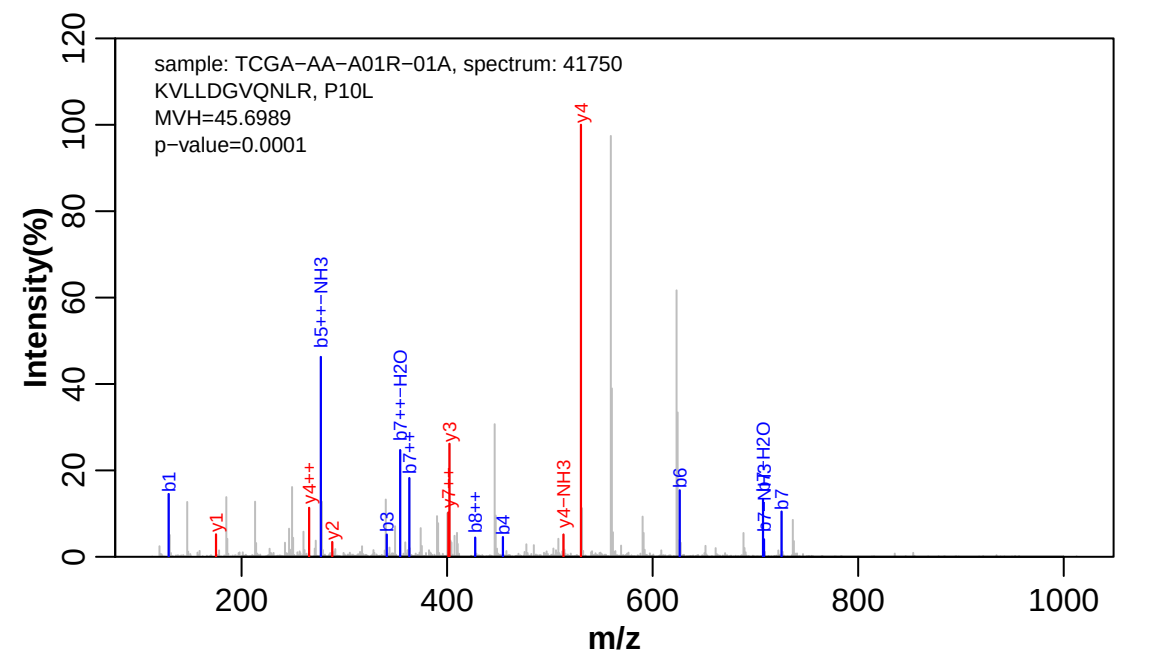

sample: TCGA−AA−A01R−01A, spectrum: 54242
GVLLMLFGGLPK, V10I
MVH=27.7659
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
y2−H2O
b3
y3
b4
y5
b5
y6
b6
y7
b7
b8
b9
y10−NH3
b10

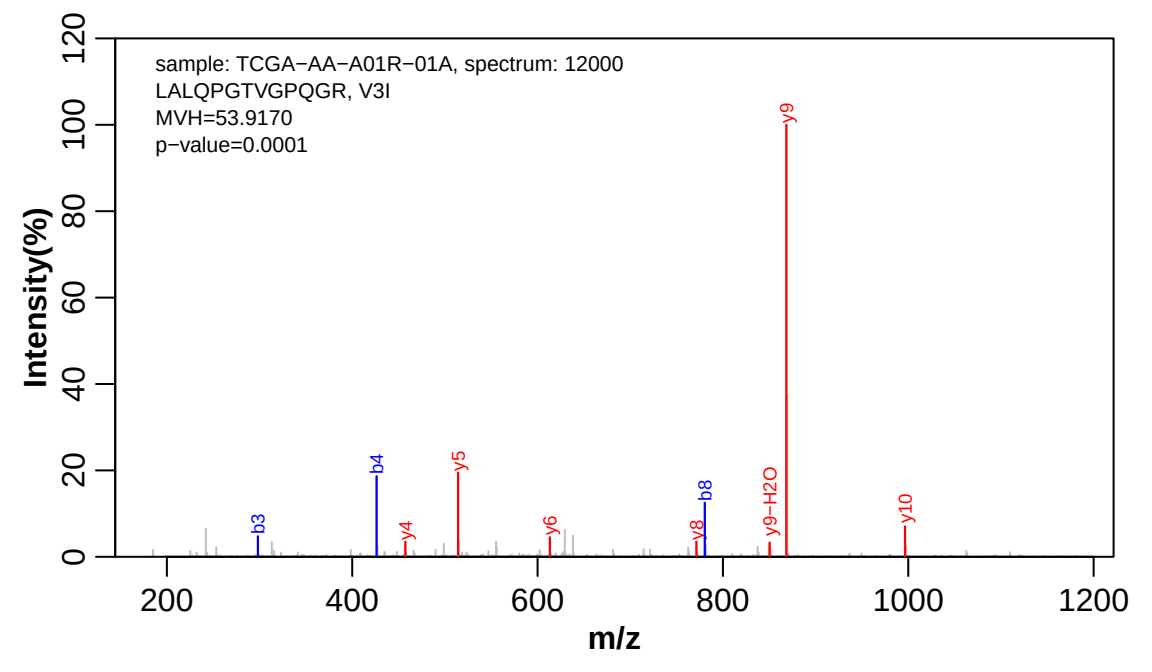

sample: TCGA−AA−A01R−01A, spectrum: 91983
HMTAVVK, Y1H
MVH=33.7967
p−value=0.0044
Intensity(%)
m/z
y1−H2O
y1−NH3
y1
b1
y2−H2O
y2
b2
y3−H2O
y3
b3
y4
b4
y5
b5
y6
b6
b6−H2O

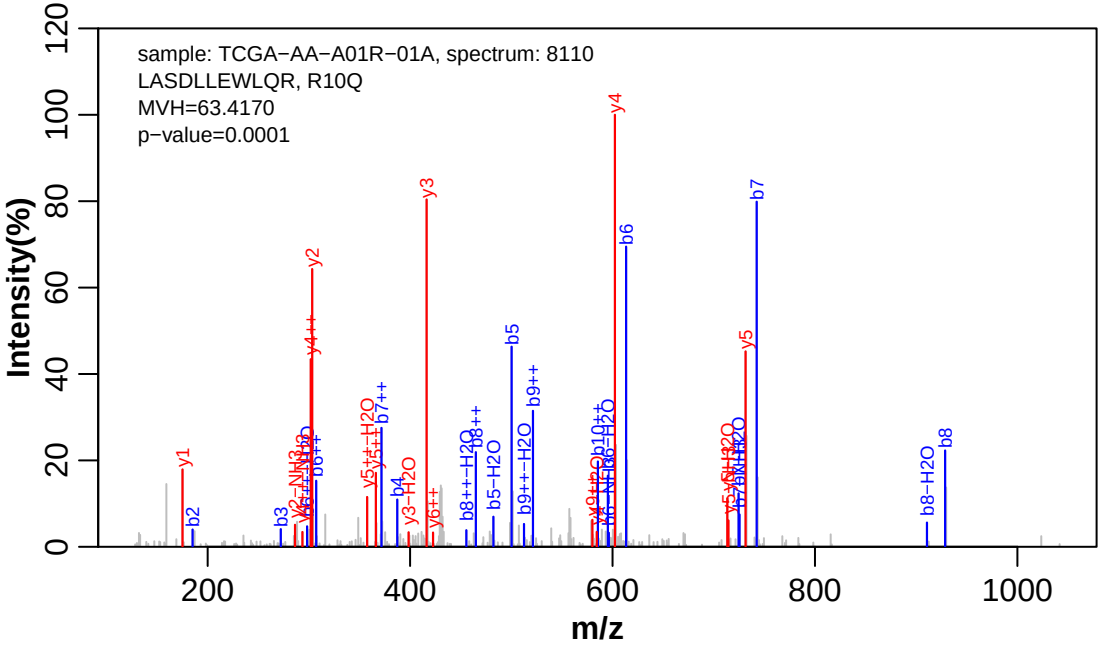

sample: TCGA−AA−A01R−01A, spectrum: 74640
HNYEVAYR, F7Y
MVH=53.2515
p−value=0.0006
Intensity(%)
m/z
y1
b2
b2−NH3
y2
b3−NH3
b3−H2O
b3
y3
y4
b4
y5
b5
b6
y6
b7
y7−NH3
y7

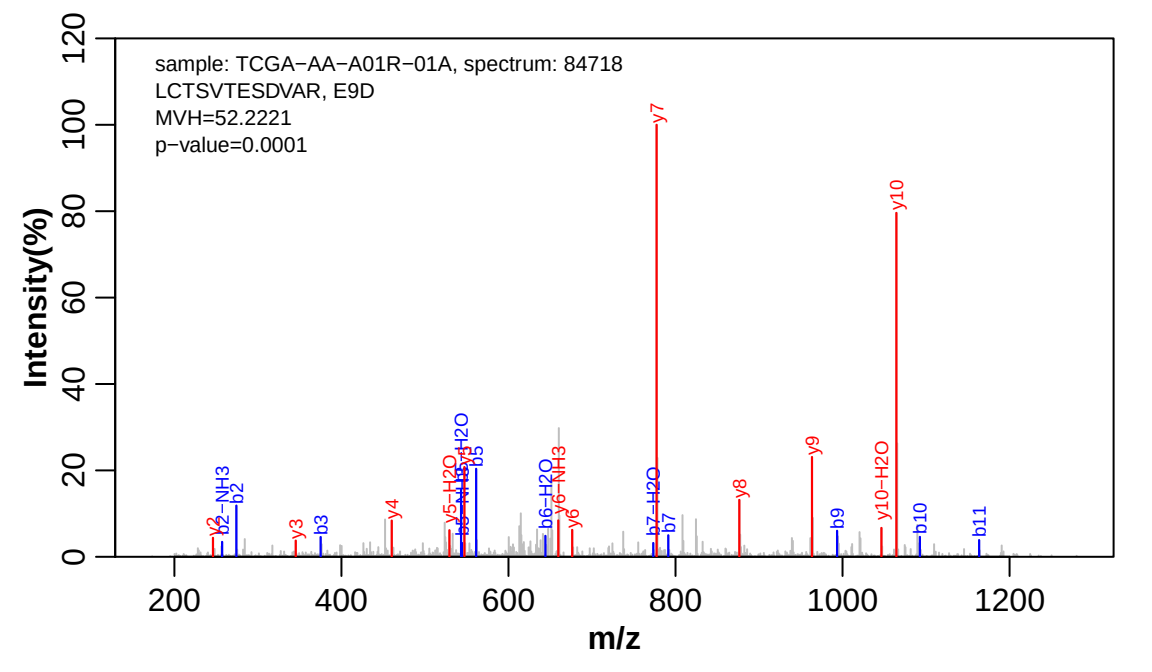

sample: TCGA−AA−A01R−01A, spectrum: 106278
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=20.9259
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3−H2O
b7++
b10++
y10++
b11++
b12++−NH3
b15++
y7
b7−H2O
b19++−H2O
y18++−H2O
b20++
b21++−NH3
b24++
y10−NH3
y24++−H2O
b12
y26++−H2O
y27++−H2O
y13
y14−H2O
y17
y19−H2O
b20
y20

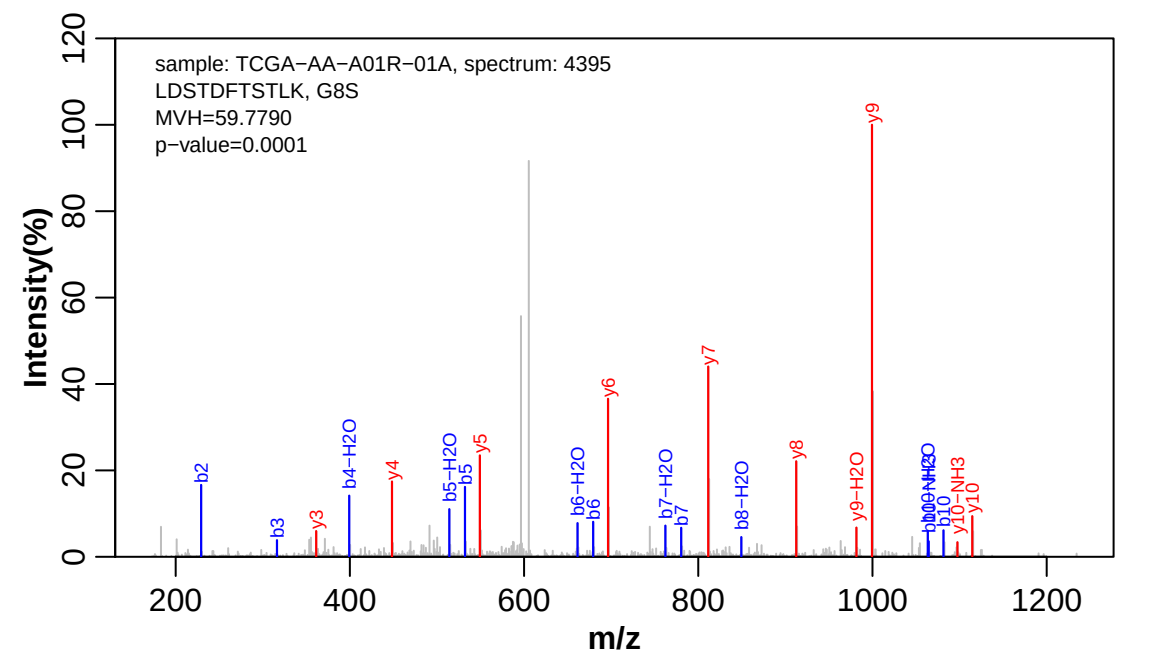

sample: TCGA−AA−A01R−01A, spectrum: 111897
KSVEEYANCHLAR, P2S
MVH=59.1584
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2−NH3
y2−H2O
y2
b6++−H2O
b6++
b7++
y4++
b4−NH3
b8++
y8++
y4
b9++
b5
b10++
y10++
y10++−H2O
y10+
y11++−NH3
y11++−H2O
y11++
b12++−NH3
b12++−H2O
b6
y6−NH3
y6−H2O
y6
b7−NH3
b7
y12++
y7−H2O
y7−NH3
y7
b8
y8

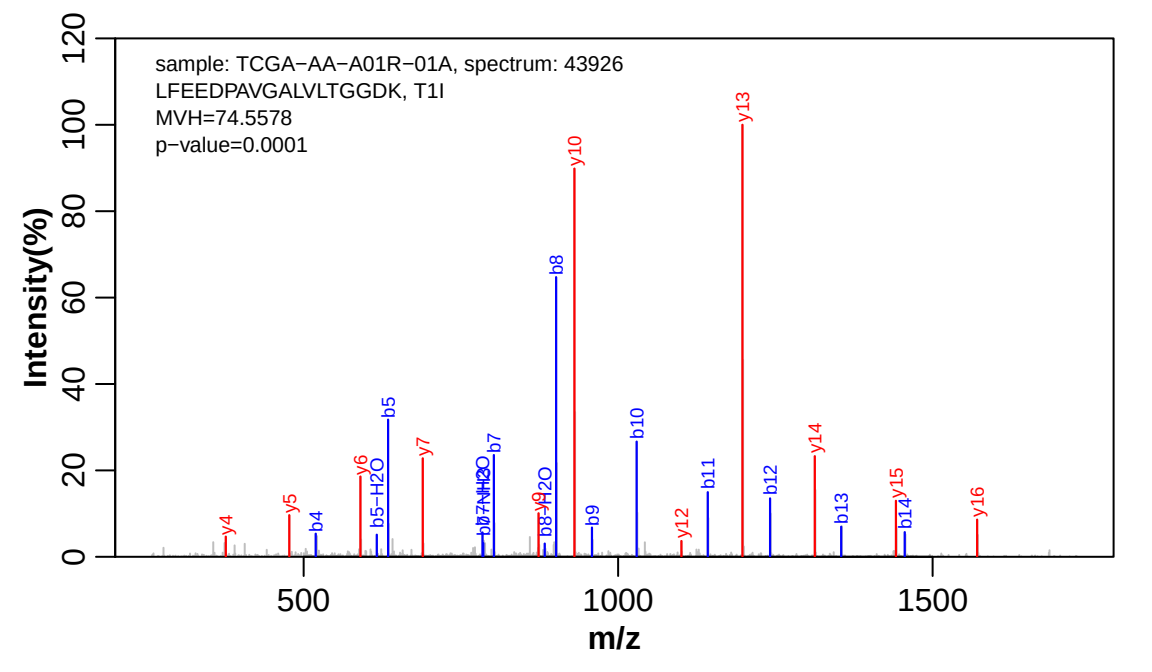

sample: TCGA−AA−A01R−01A, spectrum: 41750
KVLLDGVQNLR, P10L
MVH=45.6989
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b1
y1
y4++
b5++−NH3
y2
b3
b7++
b7++−H2O
y3
y7++
b8++
b4
y4−NH3
y4
b6
b7−NH3
b7−H2O
b7

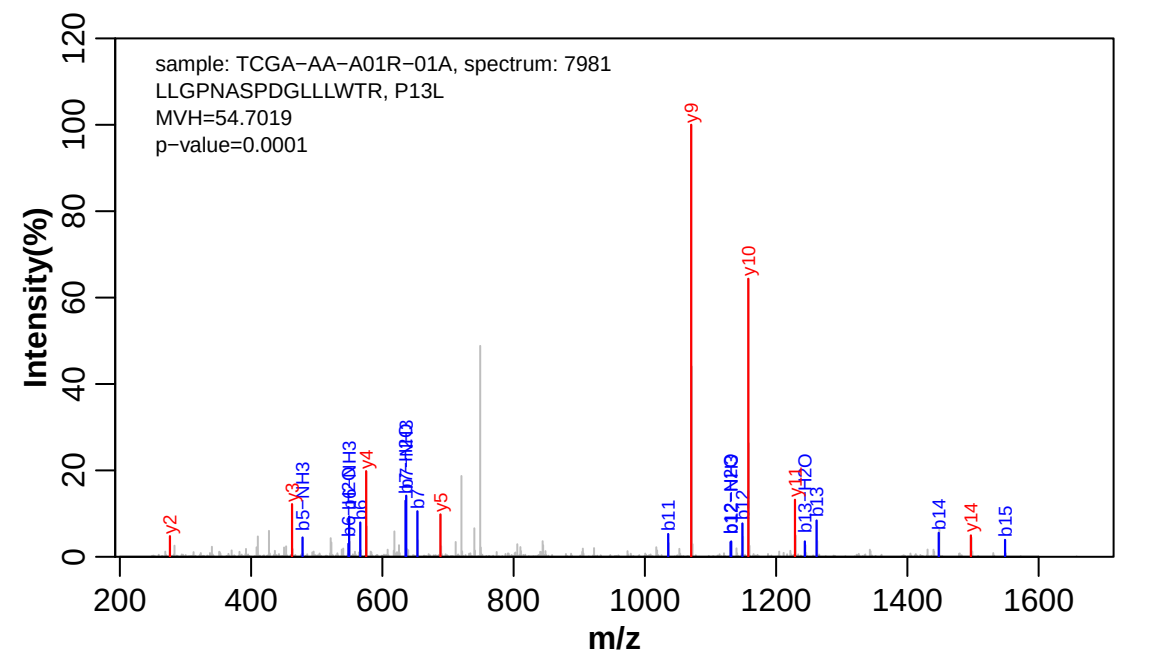

sample: TCGA−AA−A01R−01A, spectrum: 12000
LALQPGTVGPQGR, V3I
MVH=53.9170
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b4
y4
y5
y6
y8
b8
y9−H2O
y9
y10

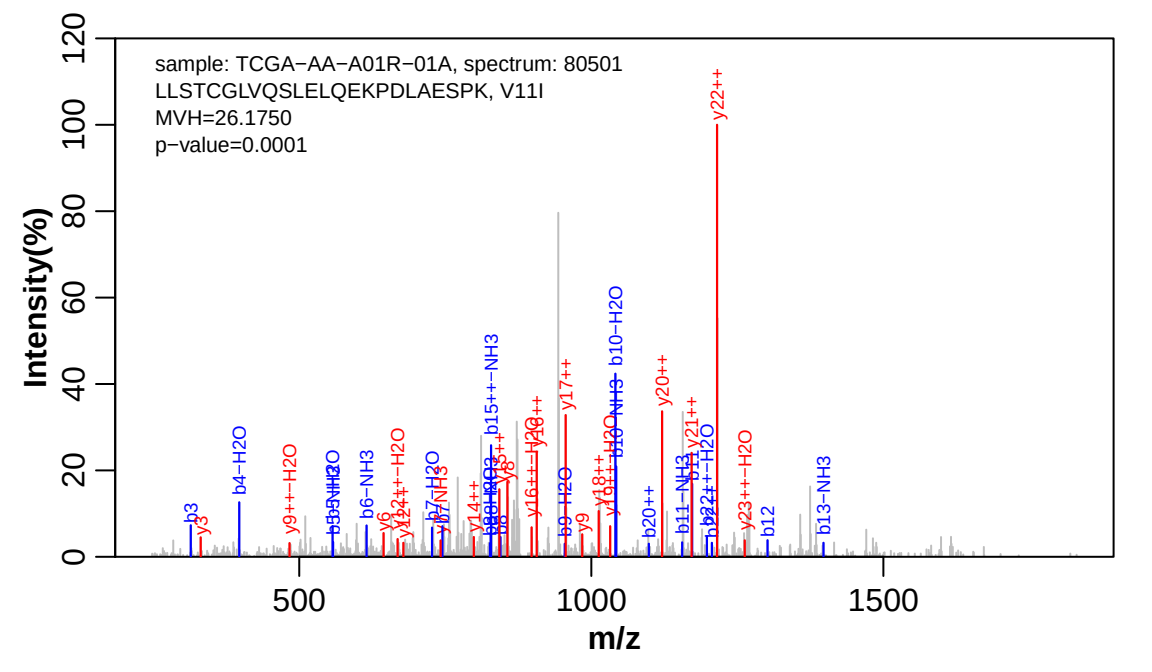

sample: TCGA−AA−A01R−01A, spectrum: 8110
LASDLLEWLQR, R10Q
MVH=63.4170
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
y4++
y3
b7++
b4
y3−H2O
y6++
b8++
b8++−H2O
b5−H2O
b5
b9++−H2O
b9++
y4
b6
b7
y5
b8
b8−H2O

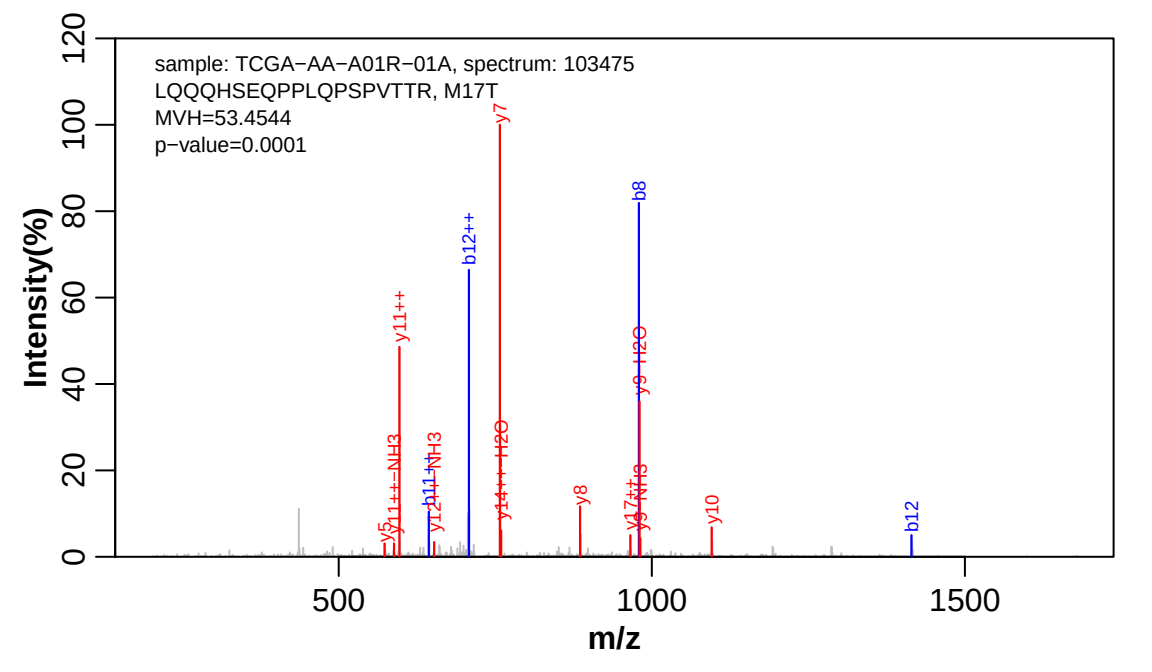

sample: TCGA−AA−A01R−01A, spectrum: 84718
LCTSVTESDVAR, E9D
MVH=52.2221
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y7
y10
y9
y8
y10−H2O
b10
b11
b9
b7
y7−H2O
y6−NH3
y6
b6−H2O
y5−H2O
b5
b3
y4
y3
b2
y2
b2−NH3

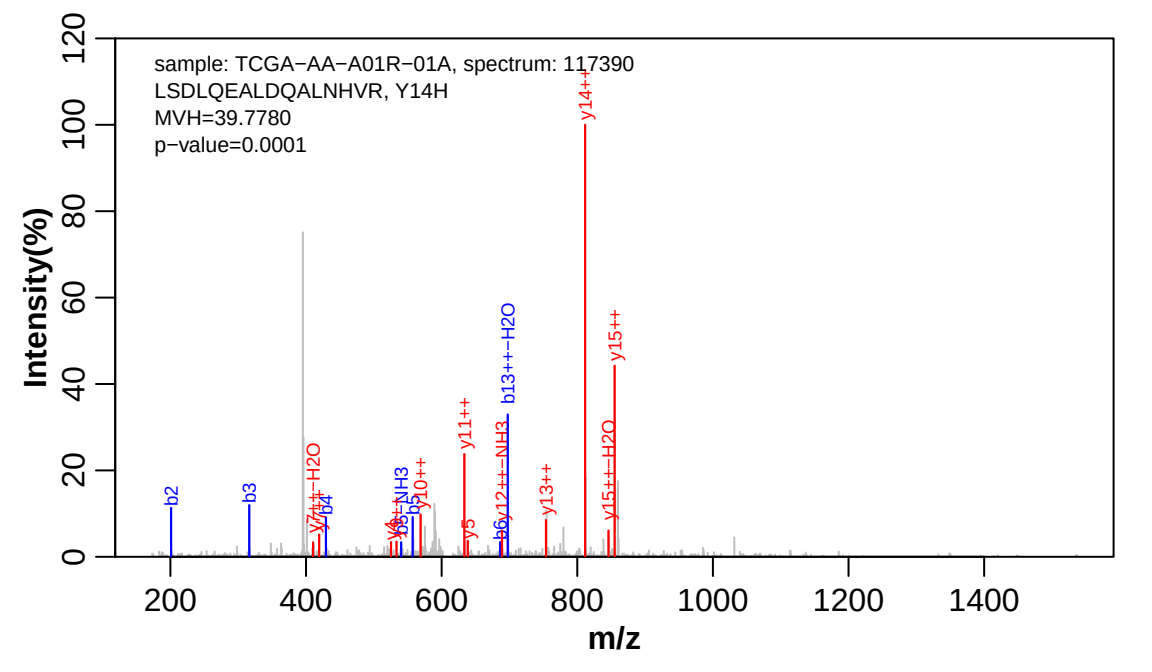

sample: TCGA−AA−A01R−01A, spectrum: 4395
LDSTDFTSTLK, G8S
MVH=59.7790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
y8
y9−H2O
b10−NH3
b10
y10−NH3
y10
y9

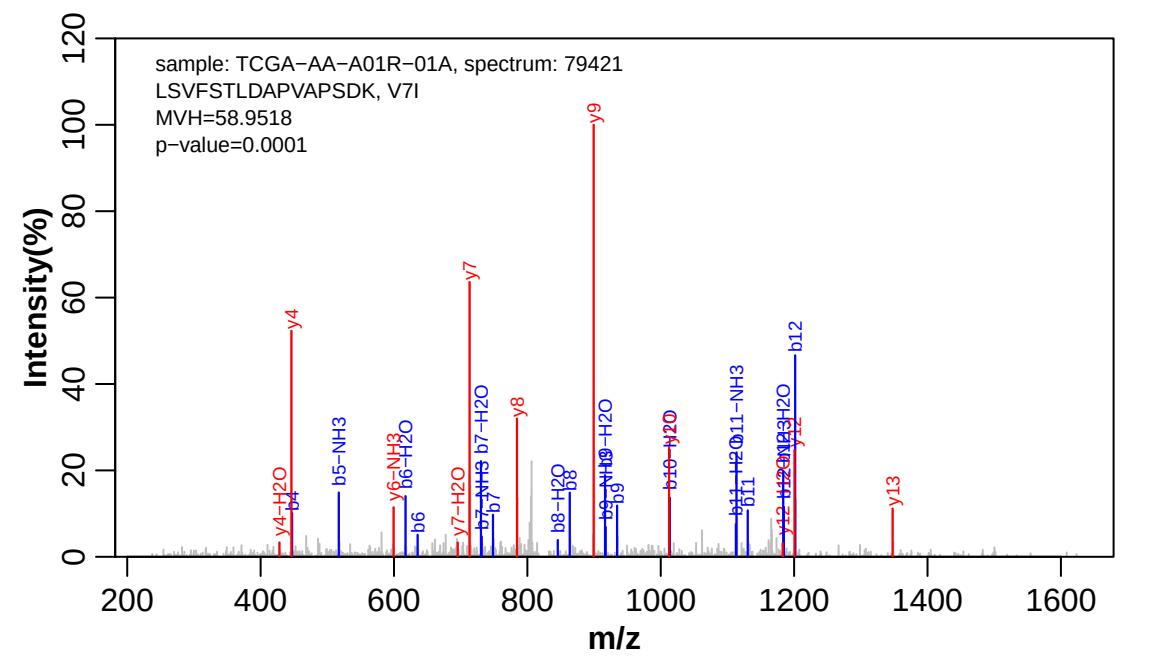

sample: TCGA−AA−A01R−01A, spectrum: 43926
LFEEDPAVGALVLTGGDK, T1I
MVH=74.5578
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
b5−H2O
b5
y6
y7
b7−NH3
b7−H2O
b7
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

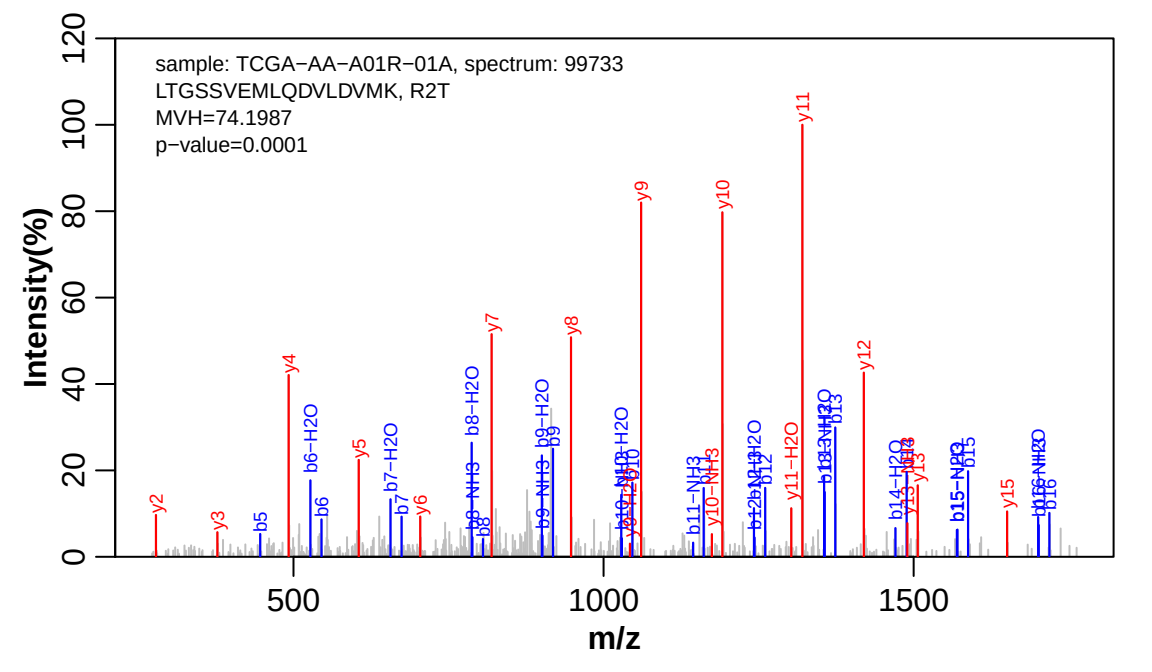

sample: TCGA−AA−A01R−01A, spectrum: 7981
LLGPNASPDGLLLWTR, P13L
MVH=54.7019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b5−NH3
y4
y5
b11
y9
y10
y11
b13
b14
y14
b15

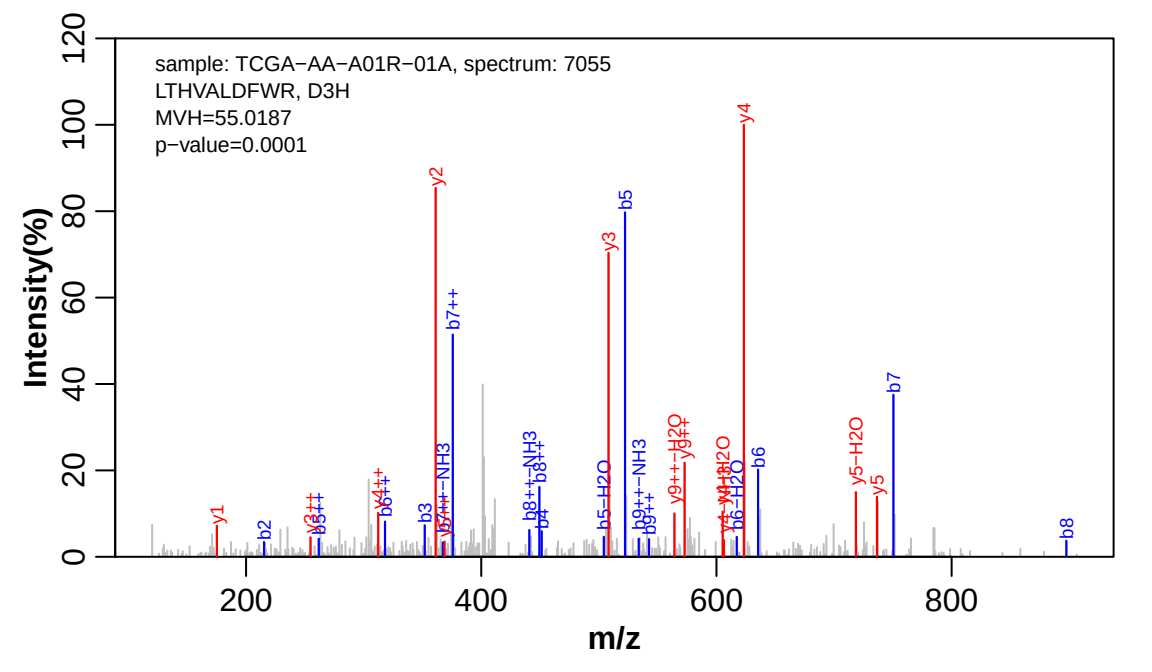

sample: TCGA−AA−A01R−01A, spectrum: 80501
LLSTCGLVQSLELQEKPDLAESPK, V11I
MVH=26.1750
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y3
b4−H2O
y9++−H2O
b6−NH3
y6
b7−H2O
b7−NH3
y14++
b15++−NH3
y8
y16++−H2O
y17++
b9−H2O
y9
y18++
b10−NH3
b10−H2O
b20++
y20++
b11−NH3
y21++
y22++
y23++−H2O
b12
b13−NH3

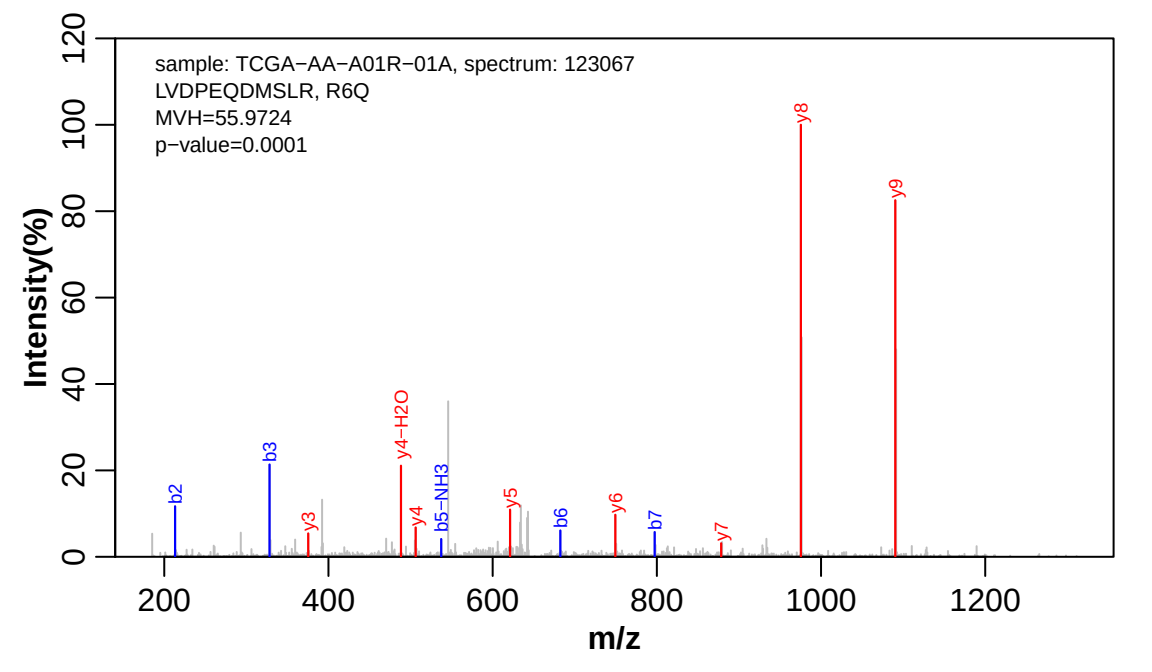

sample: TCGA−AA−A01R−01A, spectrum: 103475
LQQQHSEQPPLQPSPVTTR, M17T
MVH=53.4544
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
b8
b12++
y11++
y9−H2O
y11++−NH3
y5
y12
b11−NH3
y14+++H2O
y8
y7−NH3
y10
b12

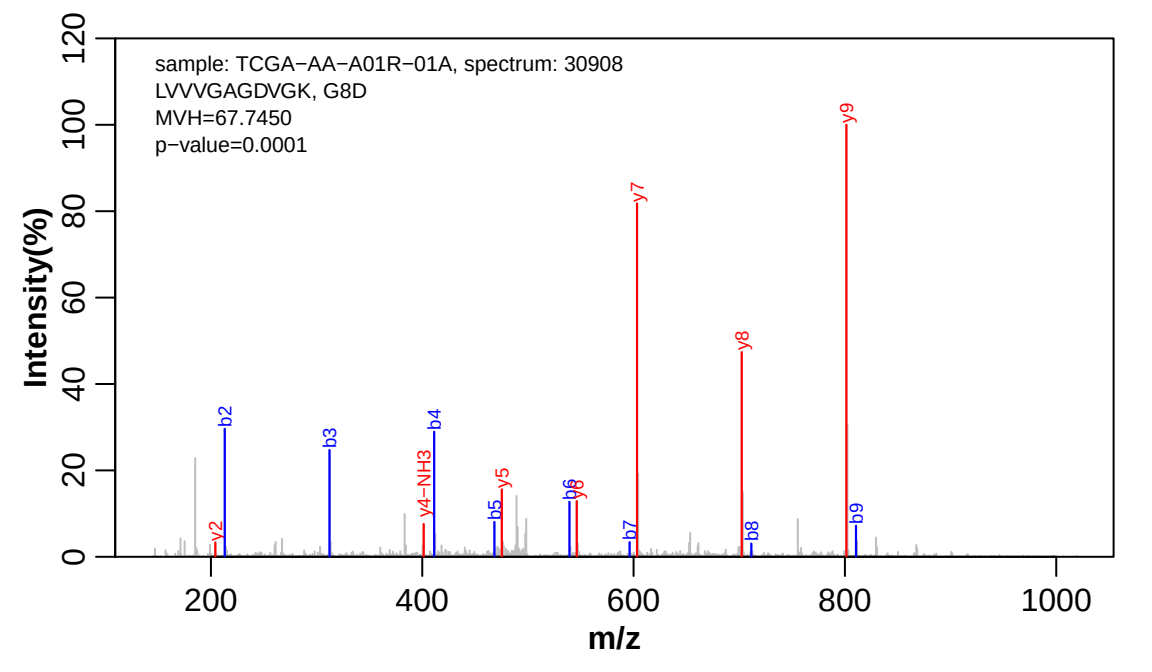

sample: TCGA−AA−A01R−01A, spectrum: 117390
LSDLQEALDQALNHVR, Y14H
MVH=39.7780
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y7++−H2O
b4
y7++
y6++−NH3
y6++
b5
y10++
y5
y11++
b6/y12++−NH3
b13++−H2O
y13++
y14++
y15++−H2O
y15++

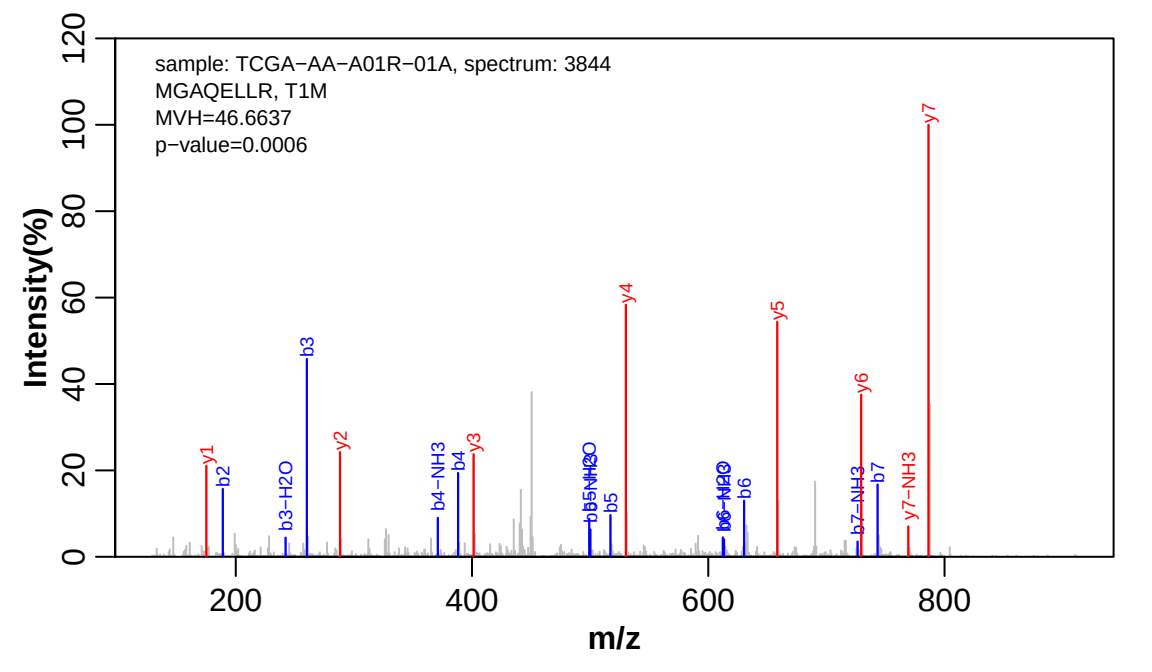

sample: TCGA−AA−A01R−01A, spectrum: 79421
LSVFSTLDAPVAPSDK, V7I
MVH=58.9518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
b12
y13
b5−NH3
b6−H2O
b6
y6−NH3
y7−H2O
b7−NH3
b7−H2O
b7
b8−H2O
b8
b9−NH3
b9−H2O
b9
b10−H2O
b10
b11−H2O
b11−NH3
b11
y12−H2O
y12
y4−H2O
b4

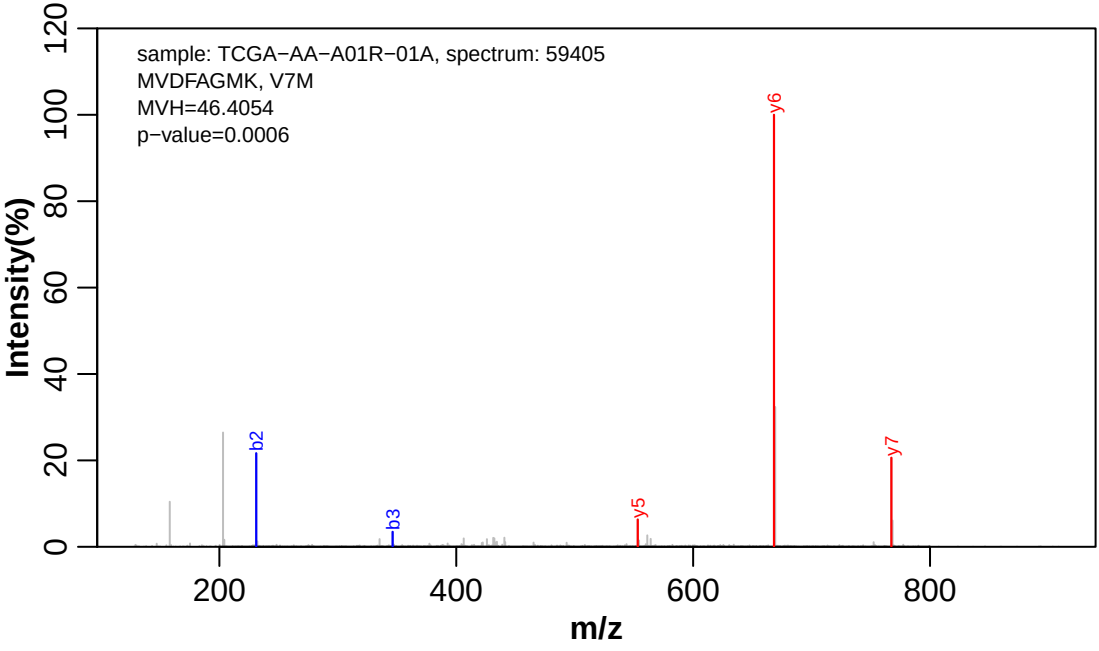

sample: TCGA−AA−A01R−01A, spectrum: 99733
LTGSSVEMLQDVLDVMK, R2T
MVH=74.1987
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b5
y4
b6−H2O
b6
y5
b7−H2O
b7
y6
b8−NH3
b8
b8−H2O
y7
b9−NH3
b9
b9−H2O
y8
y9
y10
b11−NH3
y10−NH3
y10−H2O
b12
y11−H2O
y11
b13−NH3
b13
y12
b14−H2O
y13
b15−NH3
b15
y15
b16−NH3
b16
b18

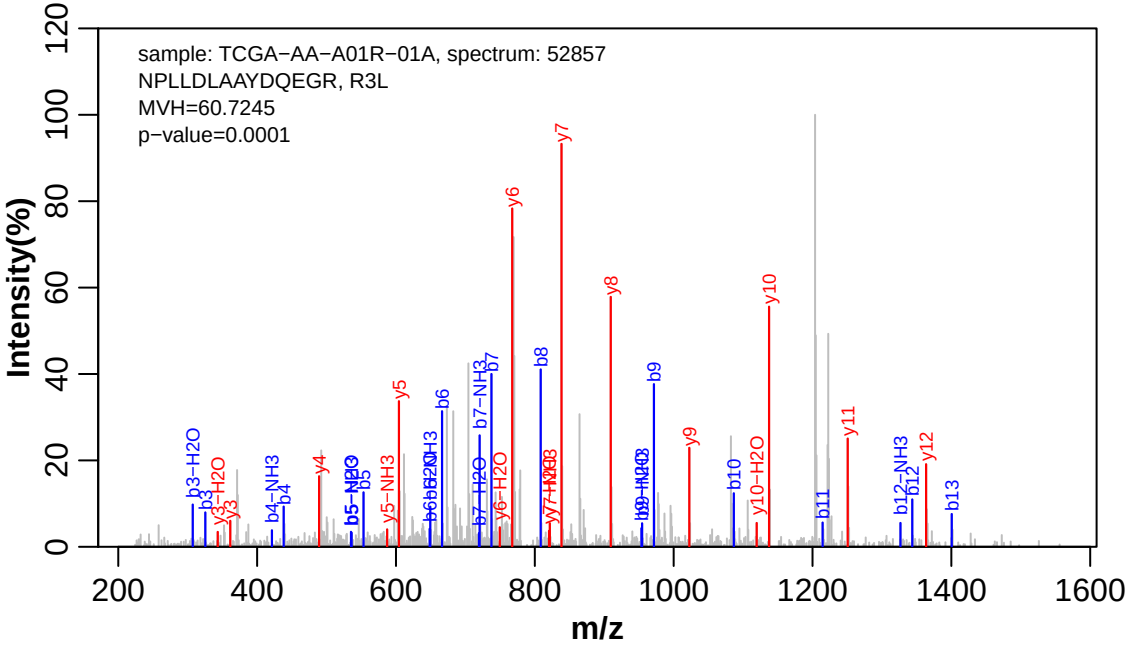

sample: TCGA−AA−A01R−01A, spectrum: 7055
LTHVALDFWR, D3H
MVH=55.0187
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b5
y4
b6
b7
b8
y5
y5−H2O
b7++
b8++−NH3
b5−H2O
b9++−NH3
y9++−H2O
b6−H2O

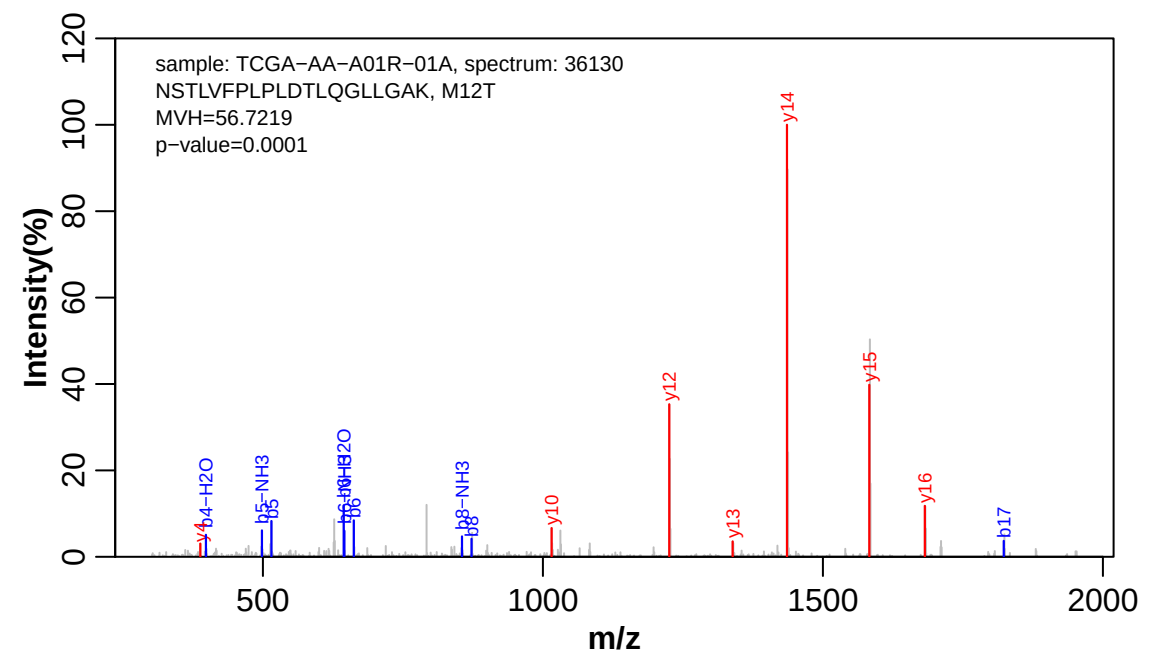

sample: TCGA−AA−A01R−01A, spectrum: 123067
LVDPEQDMSLR, R6Q
MVH=55.9724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
y4−H2O
y4
b5−NH3
y5
b6
y6
b7
y7
y8
y9

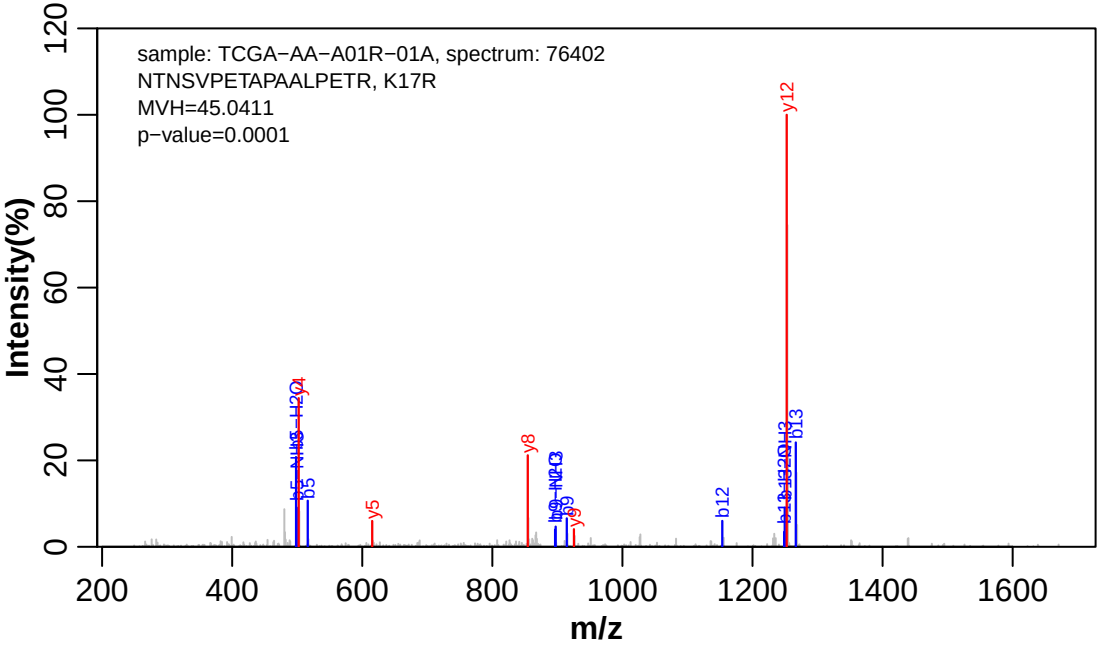

sample: TCGA−AA−A01R−01A, spectrum: 30908
LVVVGAGDVGK, G8D
MVH=67.7450
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y9
y7
y8
b2
b3
b4
y4−NH3
y5
b5
b6
y6
b7
b8
b9
y2

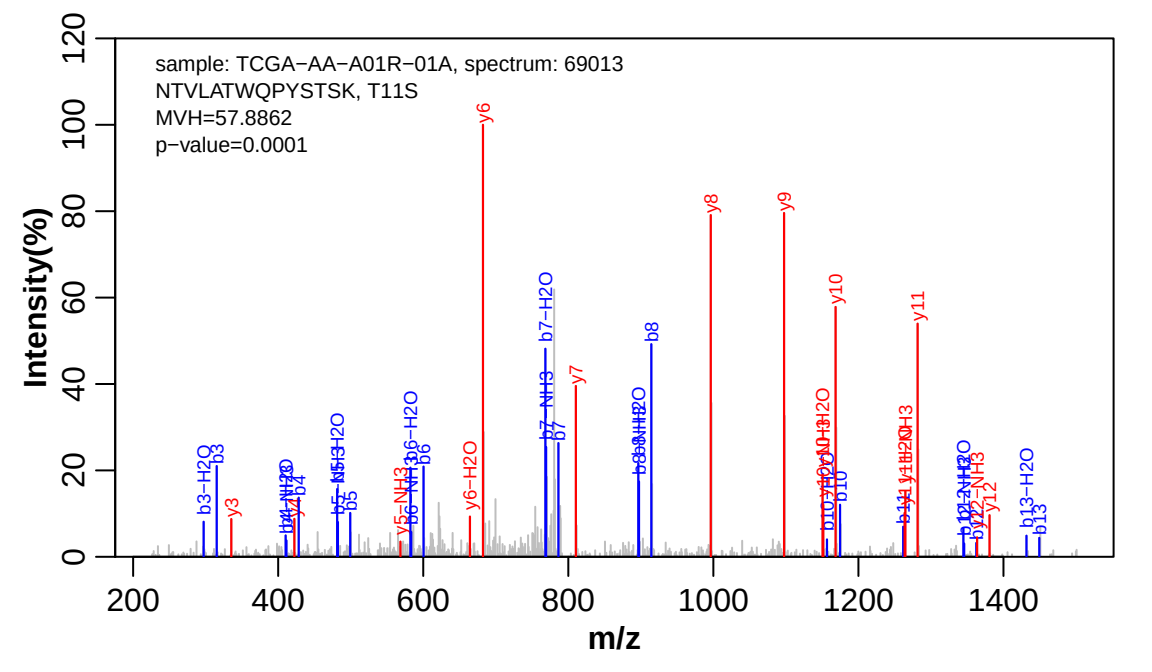

sample: TCGA−AA−A01R−01A, spectrum: 3844
MGAQELLR, T1M
MVH=46.6637
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
b3−H2O
b3
y2
b4−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
y5
b7−NH3
b7
y6
y7−NH3
y7

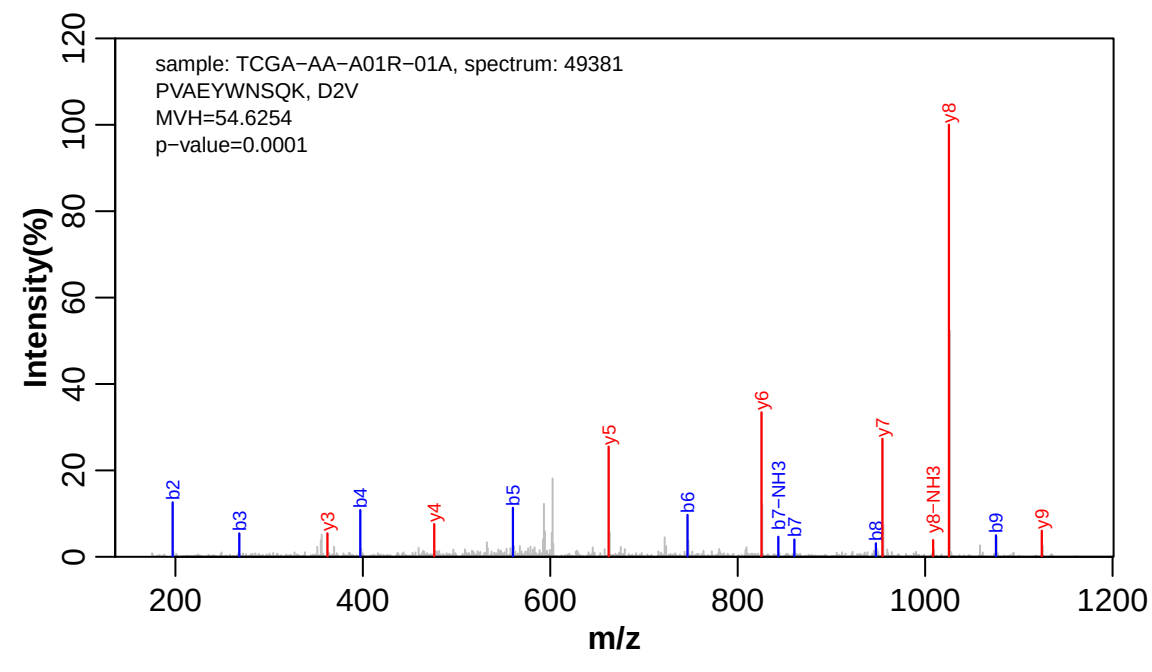

sample: TCGA−AA−A01R−01A, spectrum: 59405
MVDFAGMK, V7M
MVH=46.4054
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y5
y6
y7

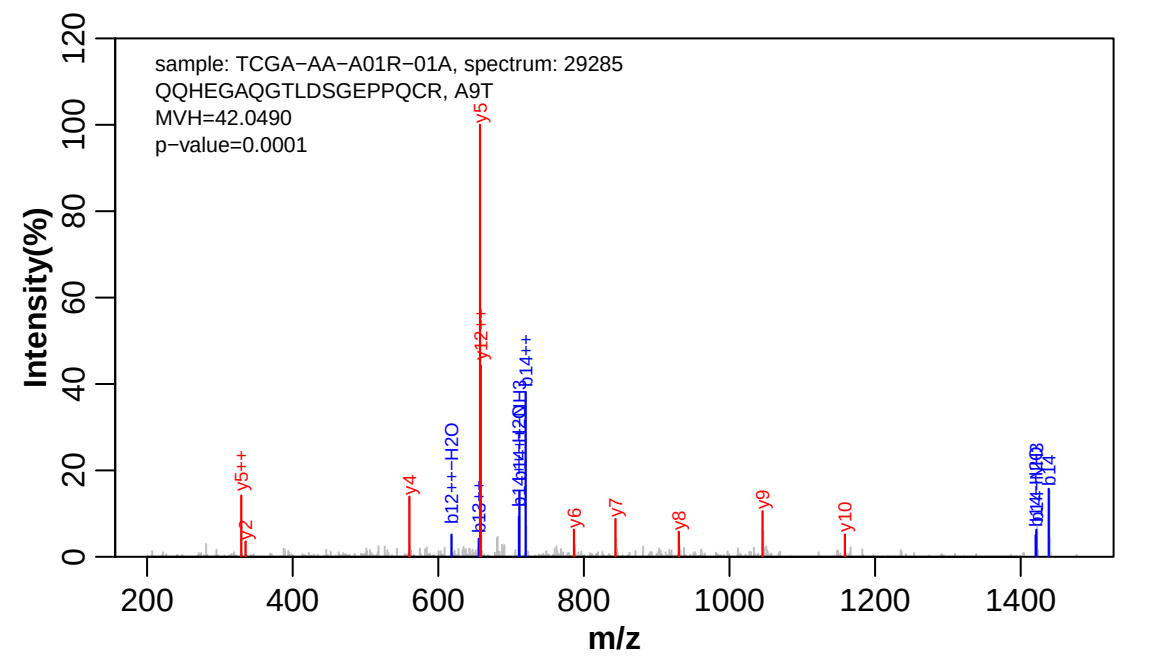

sample: TCGA−AA−A01R−01A, spectrum: 52857
NPLLDLAAYDQEGR, R3L
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y4−H2O
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
y5
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6−H2O
y6
y7
b8
y8
b9
y9
b10
y10−H2O
y10
b11
y11
b12−NH3
b12
y12
b13

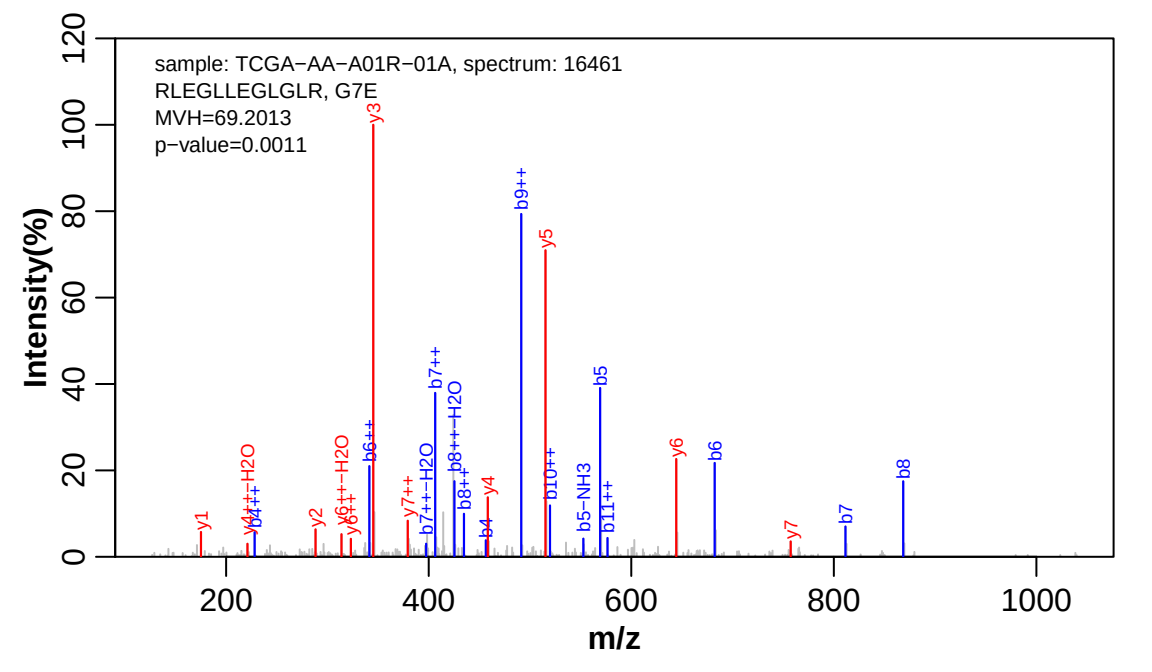

sample: TCGA−AA−A01R−01A, spectrum: 36130
NSTLVFPLPLDTLQGLLGAK, M12T
MVH=56.7219
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y14
y12
y15
y16
b17
y10
y13
b4−H2O
b5−NH3
b8−NH3

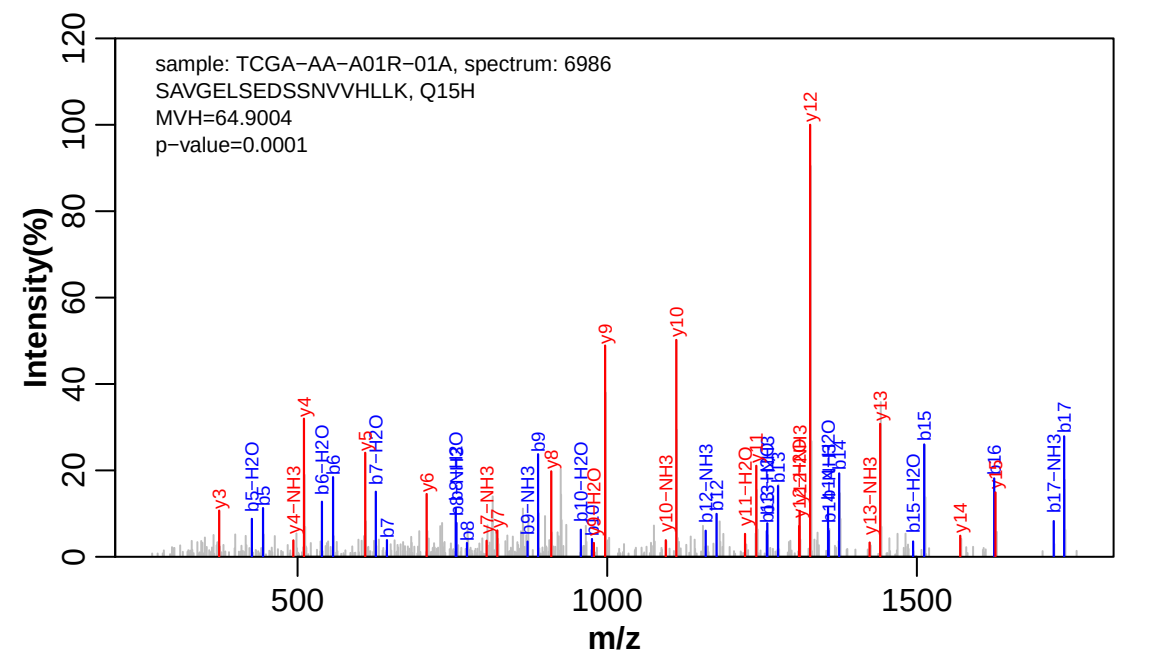

sample: TCGA−AA−A01R−01A, spectrum: 76402
NTNSVPETAPAALPETR, K17R
MVH=45.0411
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y12
y8
y5
b12
b13
b5

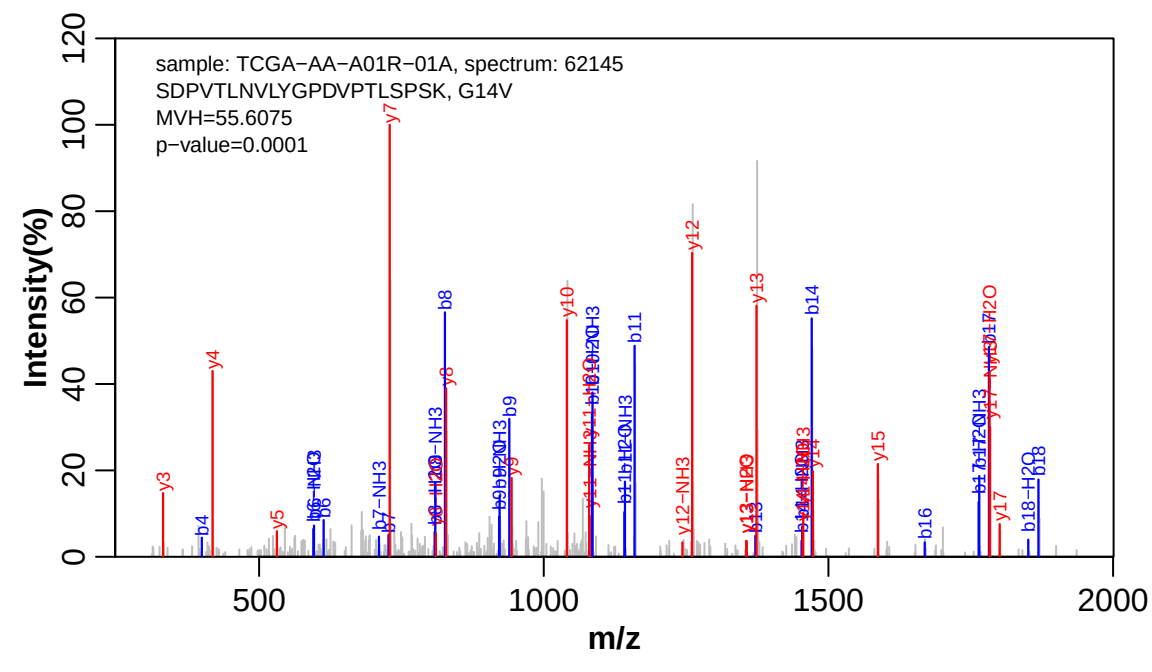

sample: TCGA−AA−A01R−01A, spectrum: 69013
NTVLATWQPYSTSK, T11S
MVH=57.8862
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y8
y9
y10
y11
y7
y12
y3
y5−NH3
y6−H2O
b7−H2O
b7−NH3
b8
b3−H2O
b3
b5
b6
b6−H2O
b10
b13
b13−H2O

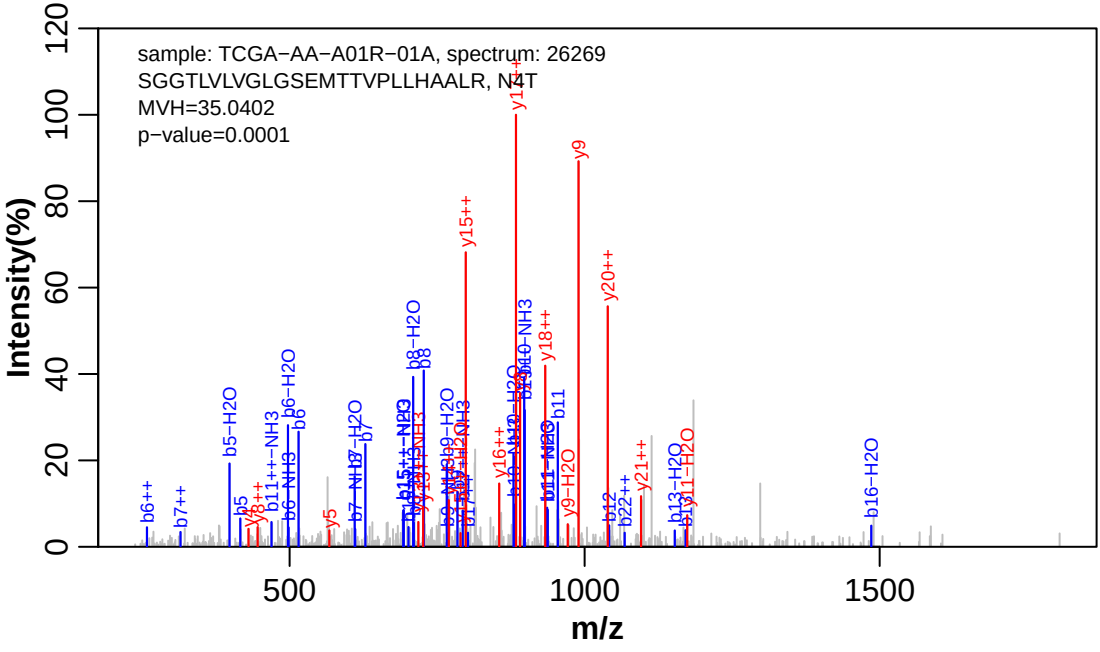

sample: TCGA−AA−A01R−01A, spectrum: 49381
PVAEYWNSQK, D2V
MVH=54.6254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
b7−NH3
b7
y7
b8
y8−NH3
y8
b9
y9

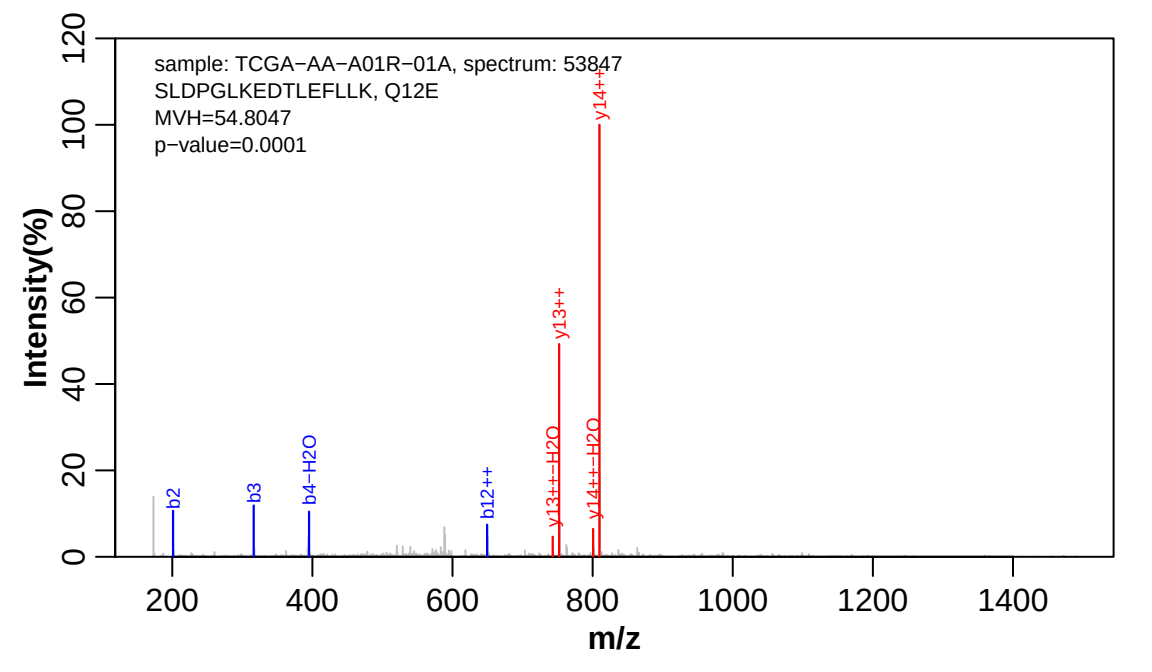

sample: TCGA−AA−A01R−01A, spectrum: 29285
QQHEGAQGTLDSGEPPQCR, A9T
MVH=42.0490
p−value=0.0001
Intensity(%)
m/z
y5
y12++
b14++
y5++
y2
y4
b12++−H2O
b13++
y6
y7
y8
y9
y10
b14
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

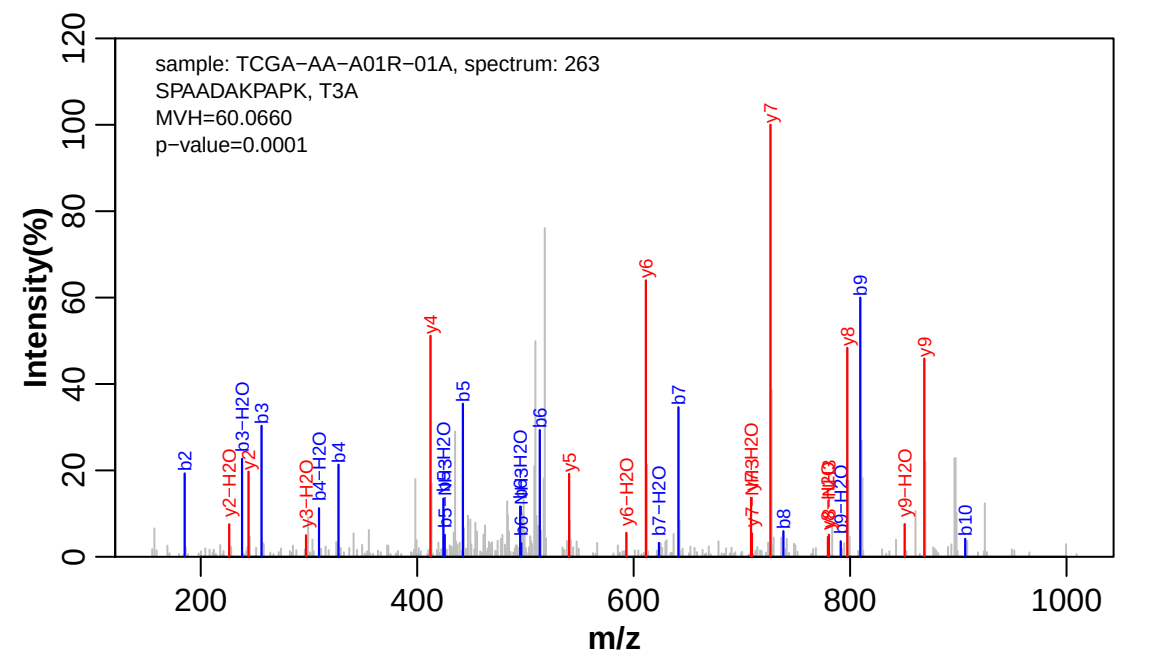

sample: TCGA−AA−A01R−01A, spectrum: 16461
RLEGLLEGLGLR, G7E
MVH=69.2013
p−value=0.0011
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
y2
y3
y4
y5
y6
y7
b4
b5
b6
b7
b8
b9++
b10++
b11++
b4++−H2O
y4++−H2O
y6++−H2O
b6++
y7++
b7++−H2O
b7++
b8++−H2O
b8++
b5−NH3

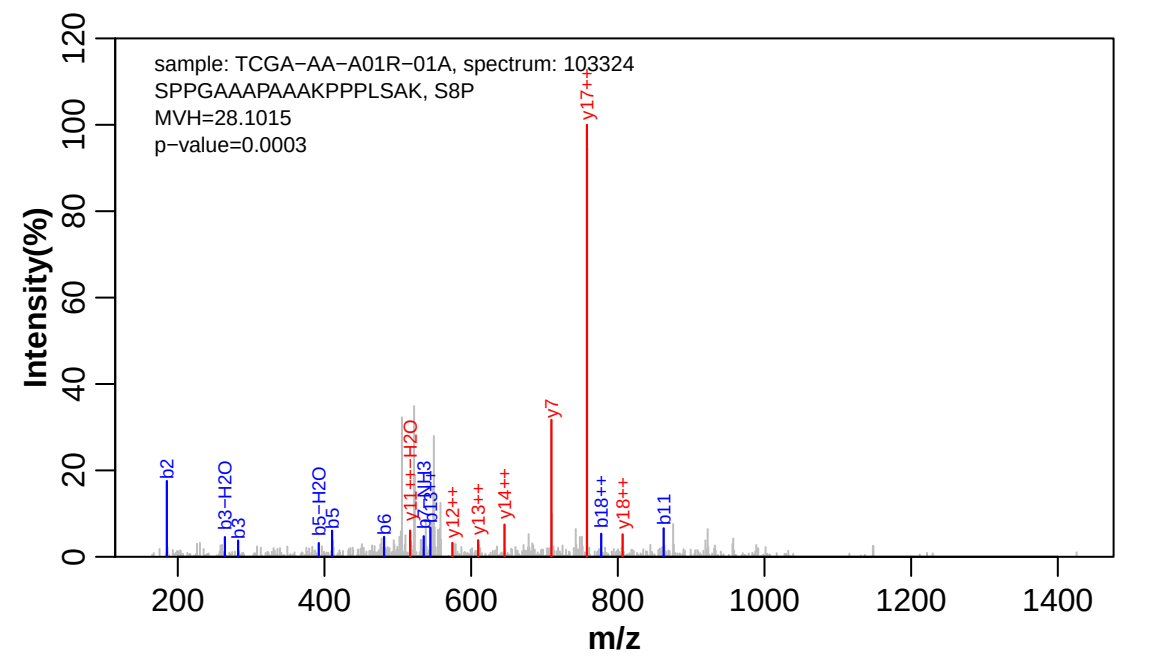

sample: TCGA−AA−A01R−01A, spectrum: 6986
SAVGELSEDSSNVVHLLK, Q15H
MVH=64.9004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y10
y4
y13
b15
b17
y5
b7−H2O
b6−H2O
y6
y8
b9
b10−H2O
y10−NH3
b12−NH3
y11−H2O
b14
y13−NH3
b15−H2O
y14
y15
y16
b17−NH3
y3
b5−H2O
y4−NH3
b7
b8
y7
y7−NH3
b9−NH3

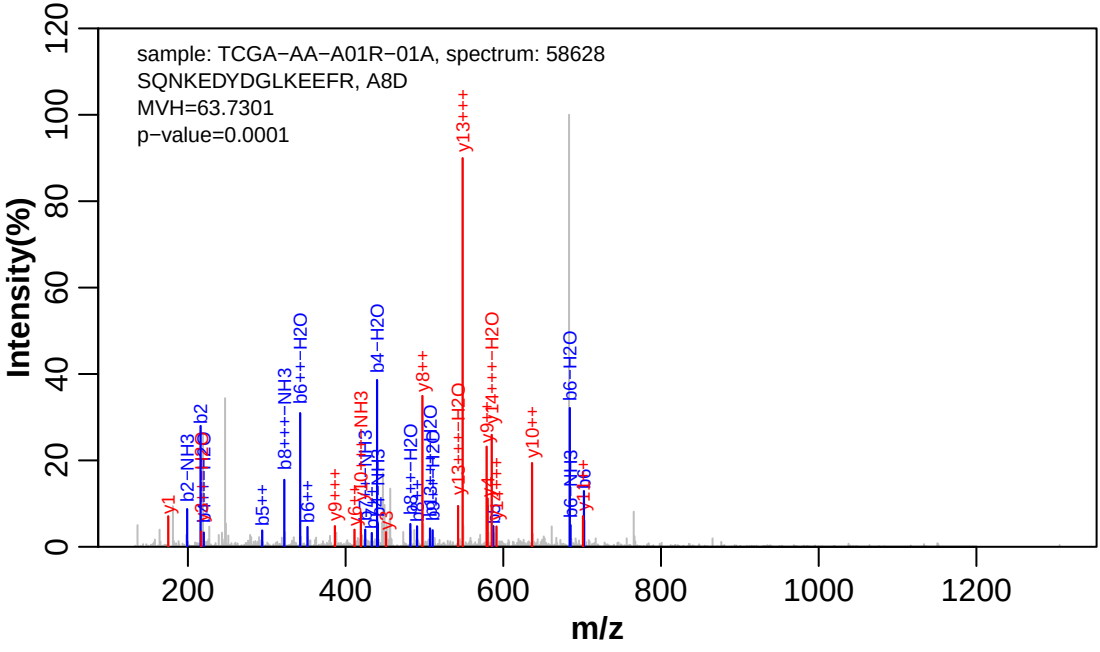

sample: TCGA−AA−A01R−01A, spectrum: 62145
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=55.6075
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b4
y4
y5
b6
b7−NH3
y7
b8
b8−H2O
y8
b9
b9−H2O
y9
y10
b10−H2O
b10−NH3
b11
y12
y12−NH3
y13
y13−NH3
b14
y14
y15
b16
b17−H2O
y17
b18−H2O
b18

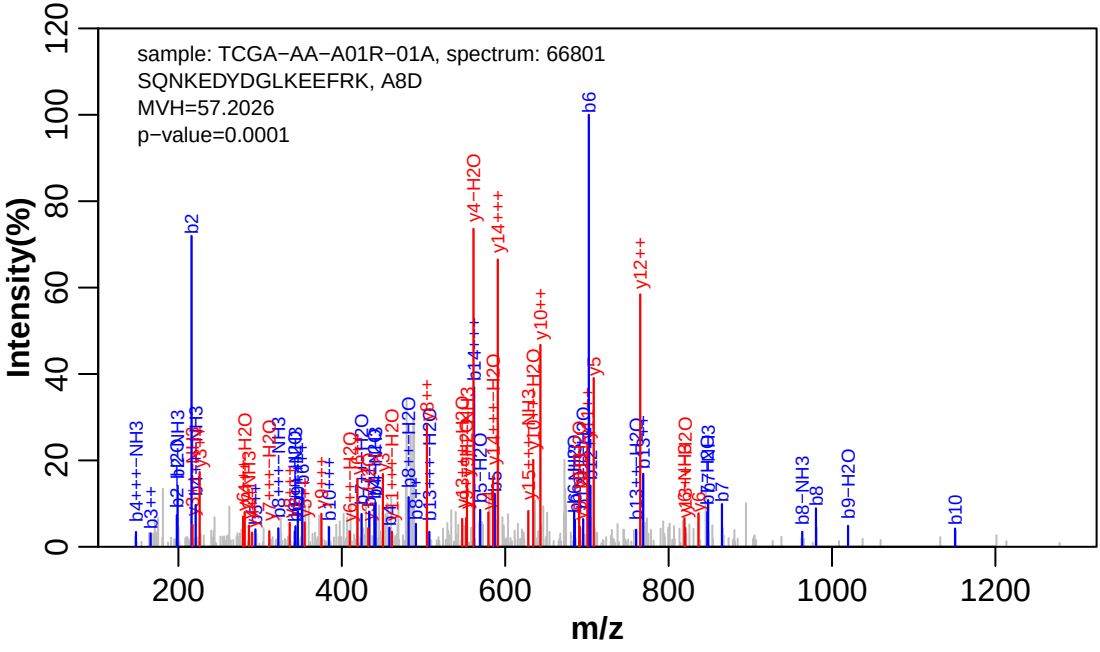

sample: TCGA−AA−A01R−01A, spectrum: 26269
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=35.0402
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b6++
b7++
b5
b5−H2O
y8++
b11++−NH3
b6−NH3
b6
b6−H2O
y5
b7−NH3
b7−H2O
b7
b8
b8−H2O
y15++
y16++
y9−H2O
b11
y18++
y20++
b12
b22++
y21++
b13−H2O
b11−H2O
b16−H2O
y17++
y9

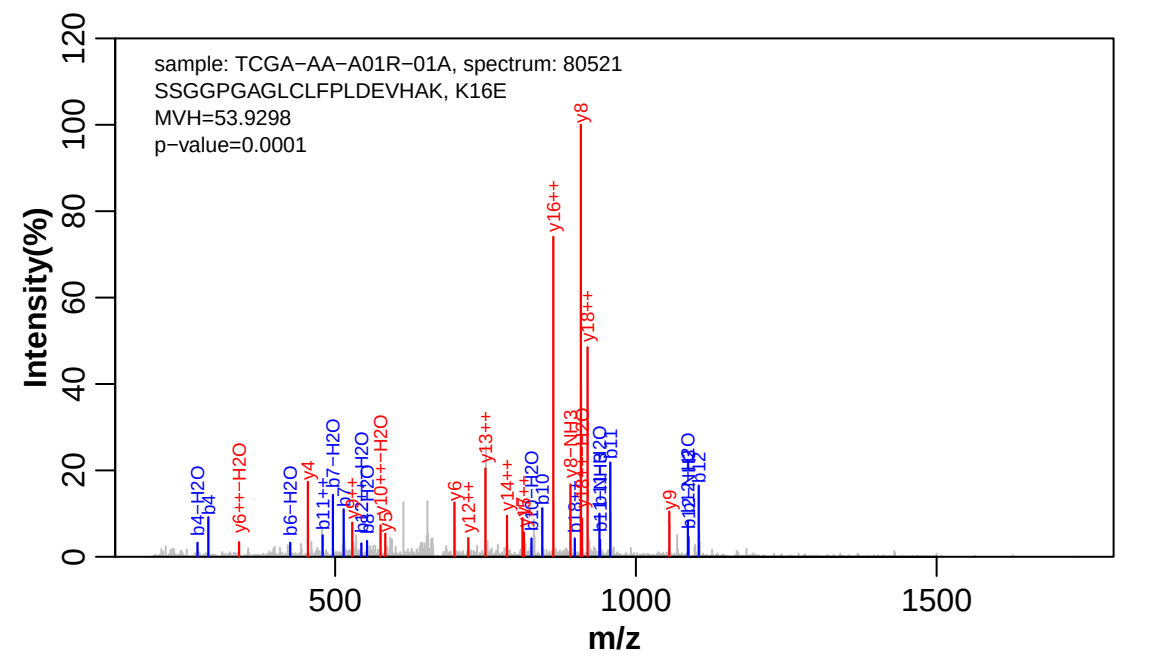

sample: TCGA−AA−A01R−01A, spectrum: 53847
SLDPGLKEDTLEFLLK, Q12E
MVH=54.8047
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
b4−H2O
b12++
y13++−H2O
y13++
y14++−H2O
y14++

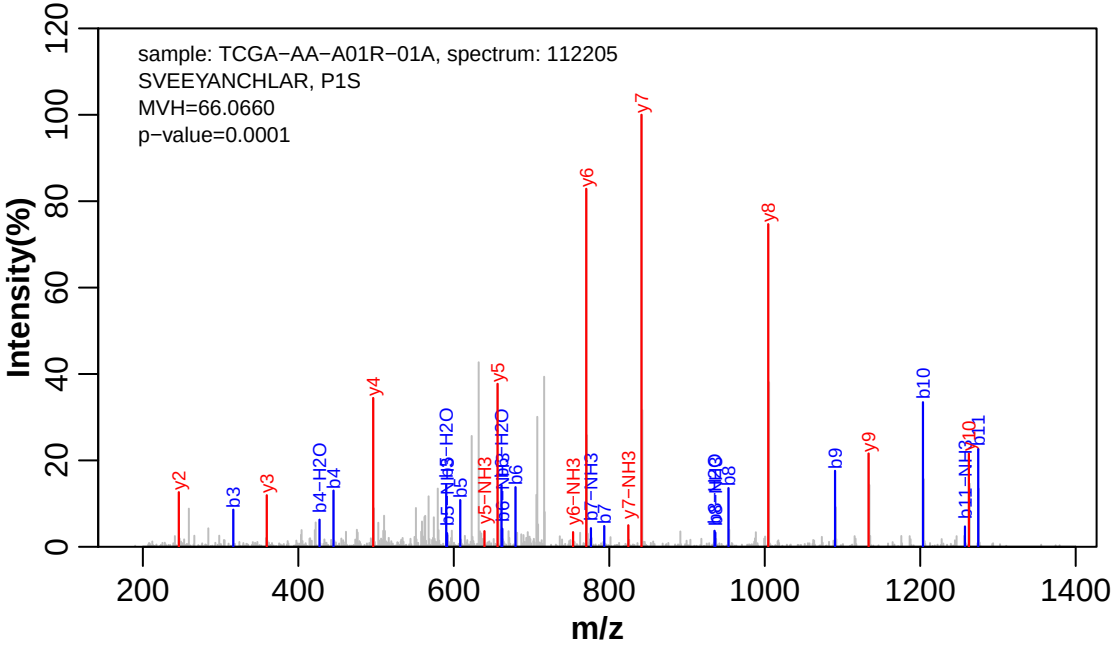

sample: TCGA−AA−A01R−01A, spectrum: 263
SPAADAKPAPK, T3A
MVH=60.0660
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2−H2O
b3−H2O
y2
b3
y3−H2O
b4−H2O
b4
y4
b5
b5−NH3
b5−H2O
b6
b6−NH3
b6−H2O
y5
y6
y6−H2O
b7−H2O
b7
y7
y7−NH3
y7−H2O
b8
y8
b8−NH3
b8−H2O
b9
y9
y9−H2O
b10

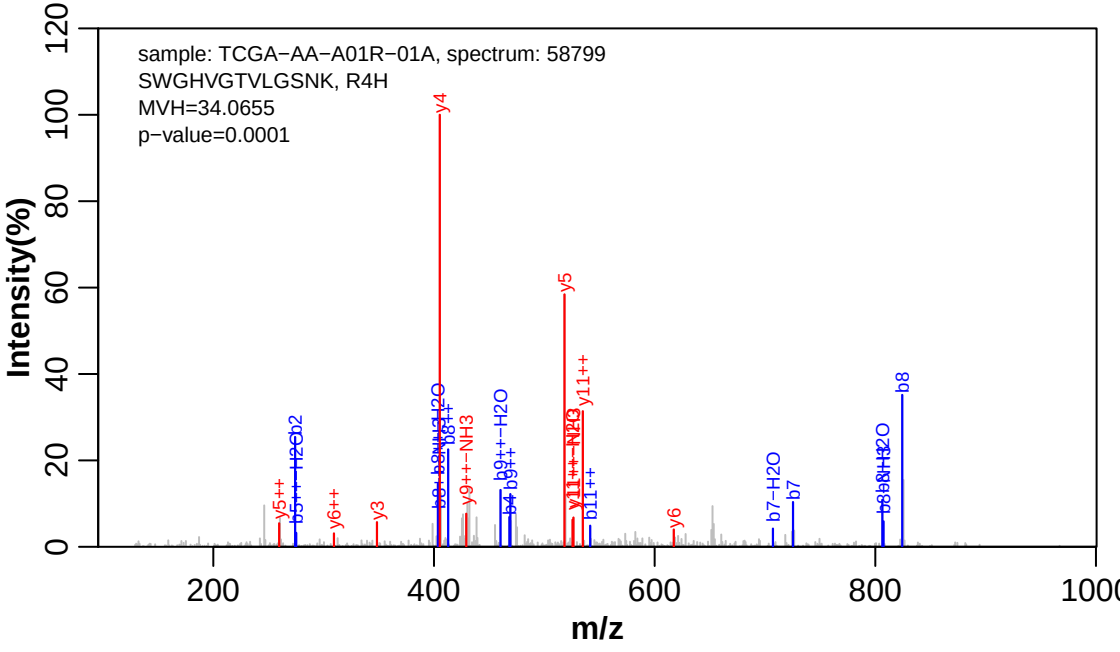

sample: TCGA−AA−A01R−01A, spectrum: 103324
SPPGAAAPAAAKPPPLSAK, S8P
MVH=28.1015
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b3
b5−H2O
b5
b6
y11++−H2O
y11++
y12++
y13++
y14++
y7
y17++
b18++
y18++
b11

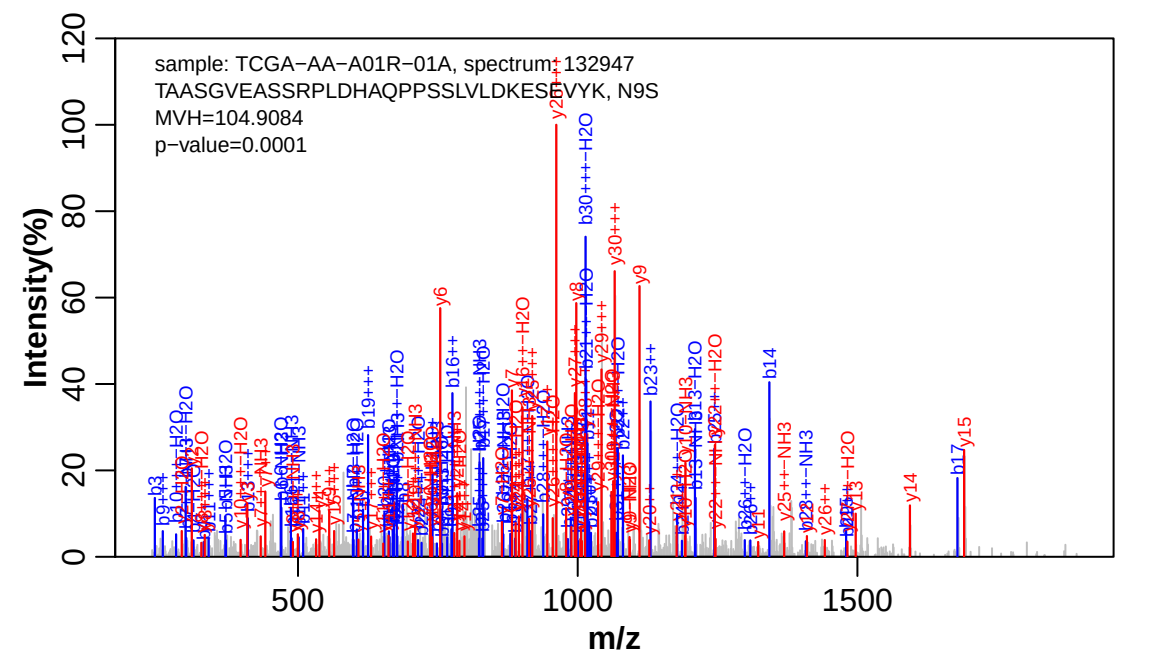

sample: TCGA−AA−A01R−01A, spectrum: 58628
SQNKEDYDGLKEEFR, A8D
MVH=63.7301
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y13+++
b4−H2O
b6−H2O
b6++−H2O
b8+++−NH3
y8++
y13+++−H2O
y10++
y9+++
b6++
b5++
y1
b2−NH3
b2
y1−b6+

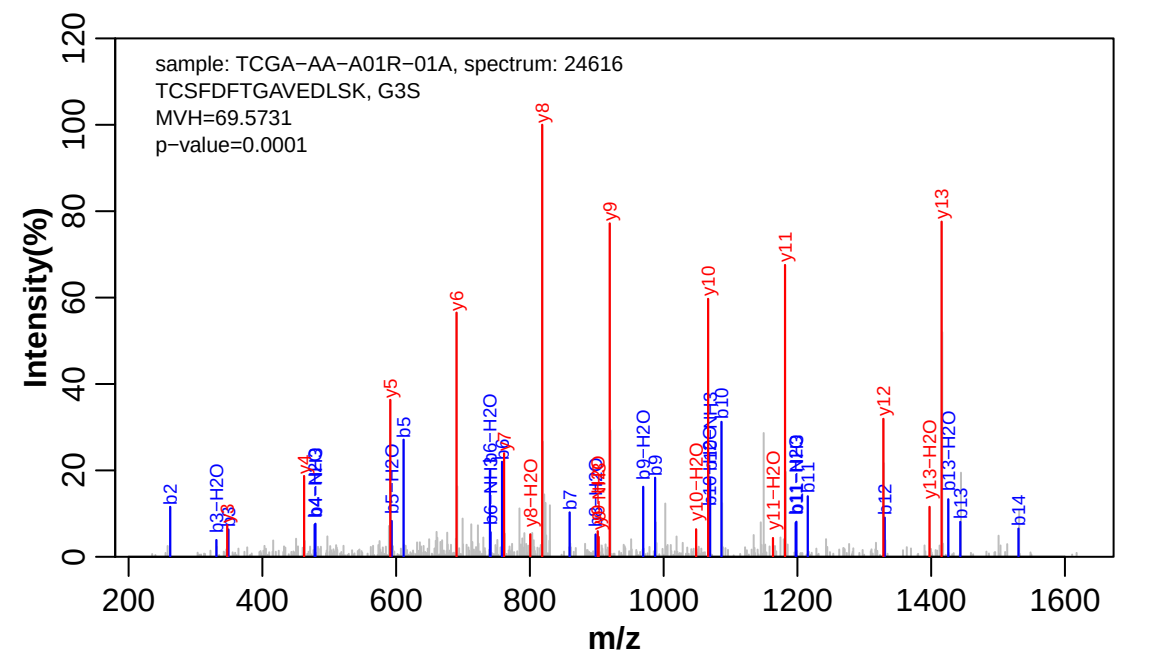

sample: TCGA−AA−A01R−01A, spectrum: 66801
SQNKEDYDGLKEEFRK, A8D
MVH=57.2026
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b6
b2
y4−H2O
y14+++
y12++
y10++
b14+++
y5
b10

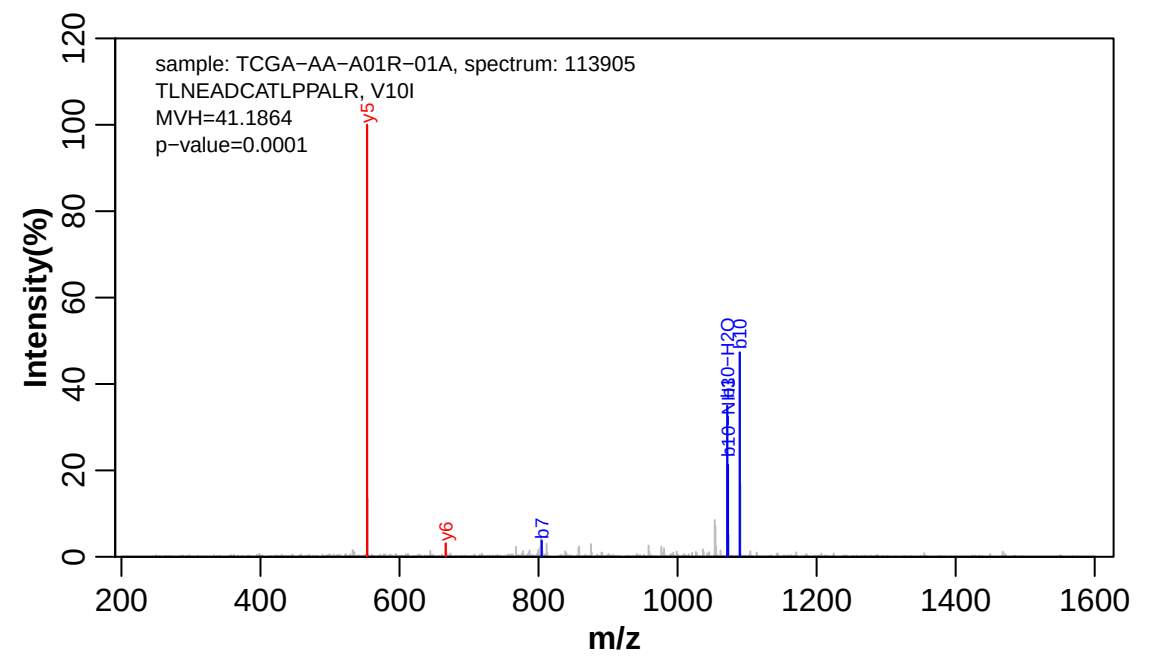

sample: TCGA−AA−A01R−01A, spectrum: 80521
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=53.9298
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y16++
y18++
y6++−H2O
b6−H2O
y4
y6
y12++
y13++
y14++
y9
b4−H2O
b4

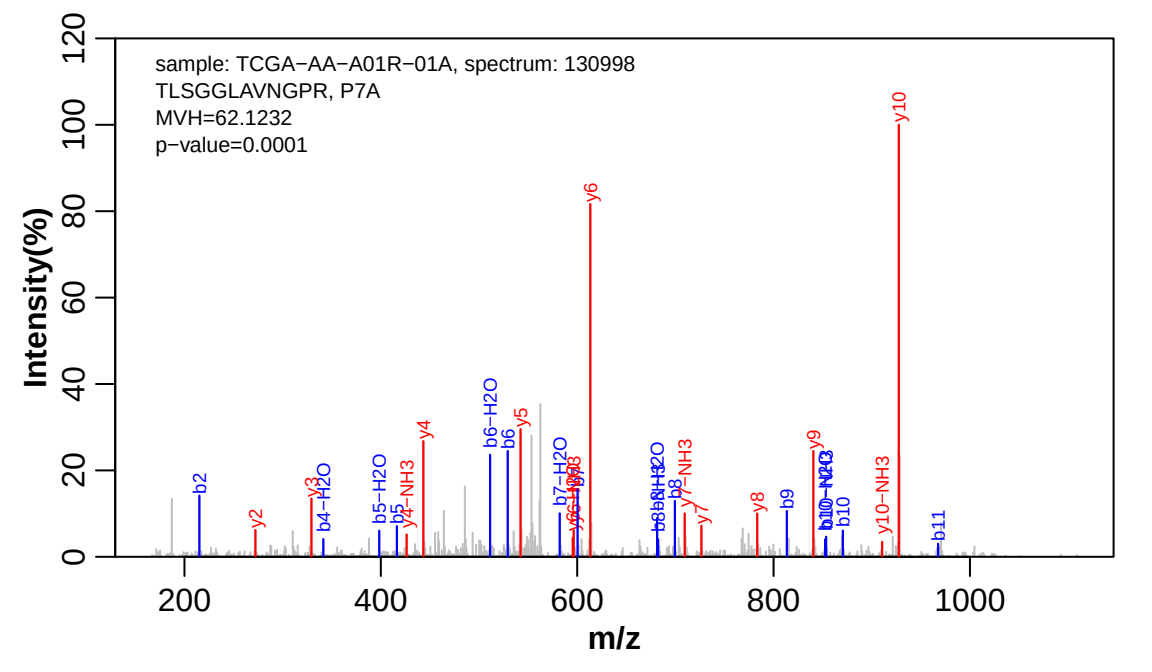

sample: TCGA−AA−A01R−01A, spectrum: 112205
SVEEYANCHLAR, P1S
MVH=66.0660
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7−NH3
b7
y7−NH3
y7
b8−H2O
b8−NH3
b8
y8
b9
y9
b10
b11−NH3
b11

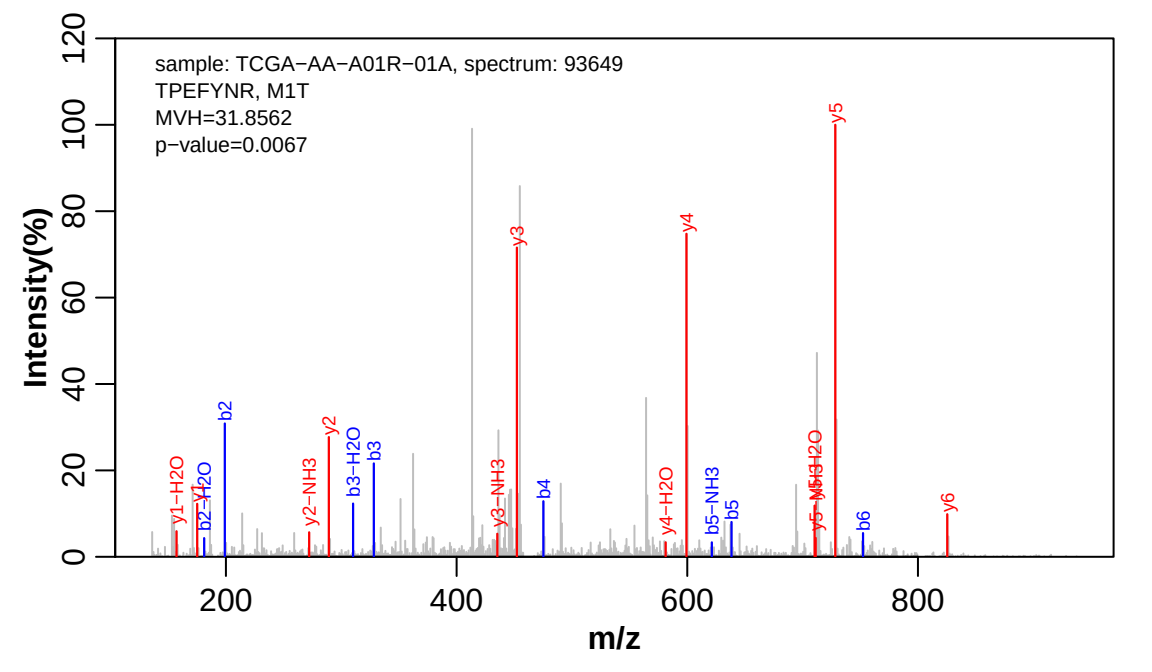

sample: TCGA−AA−A01R−01A, spectrum: 58799
SWGHVGTVLGSNK, R4H
MVH=34.0655
p−value=0.0001
Intensity(%)
m/z
y4
y5
y5++
b5++−H2O
b2
y6++
y3
b8++
y9++−NH3
b9++−H2O
b4
b9++
y11++
y11++−NH3
b11++
y6
b7−H2O
b7
b8
b8−H2O

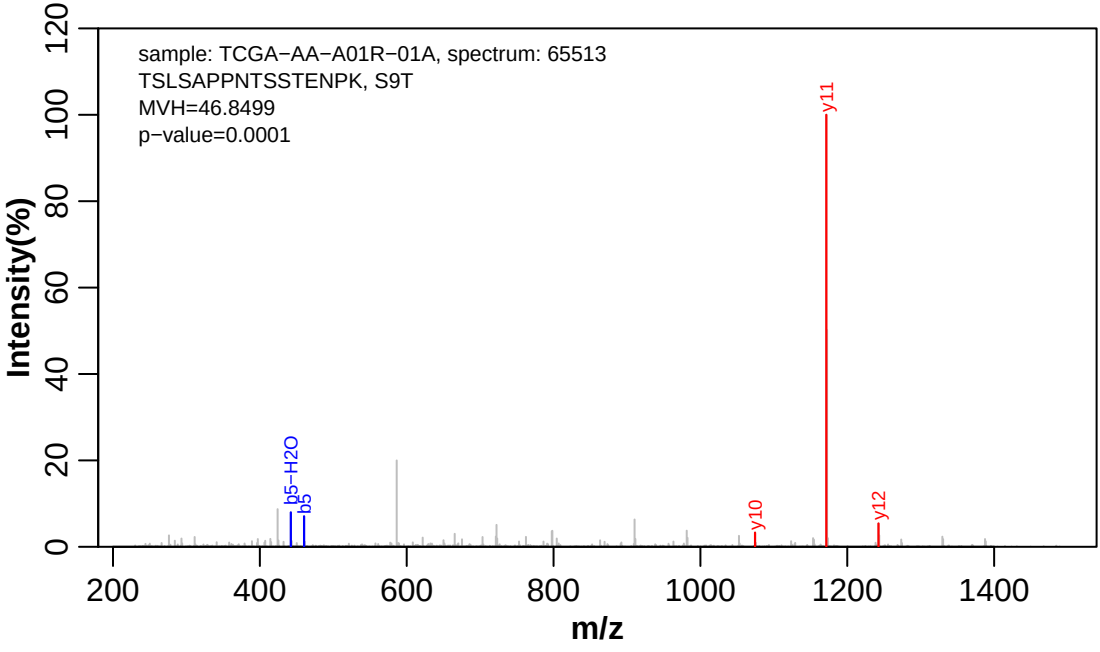

sample: TCGA−AA−A01R−01A, spectrum: 132947
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=104.9084
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

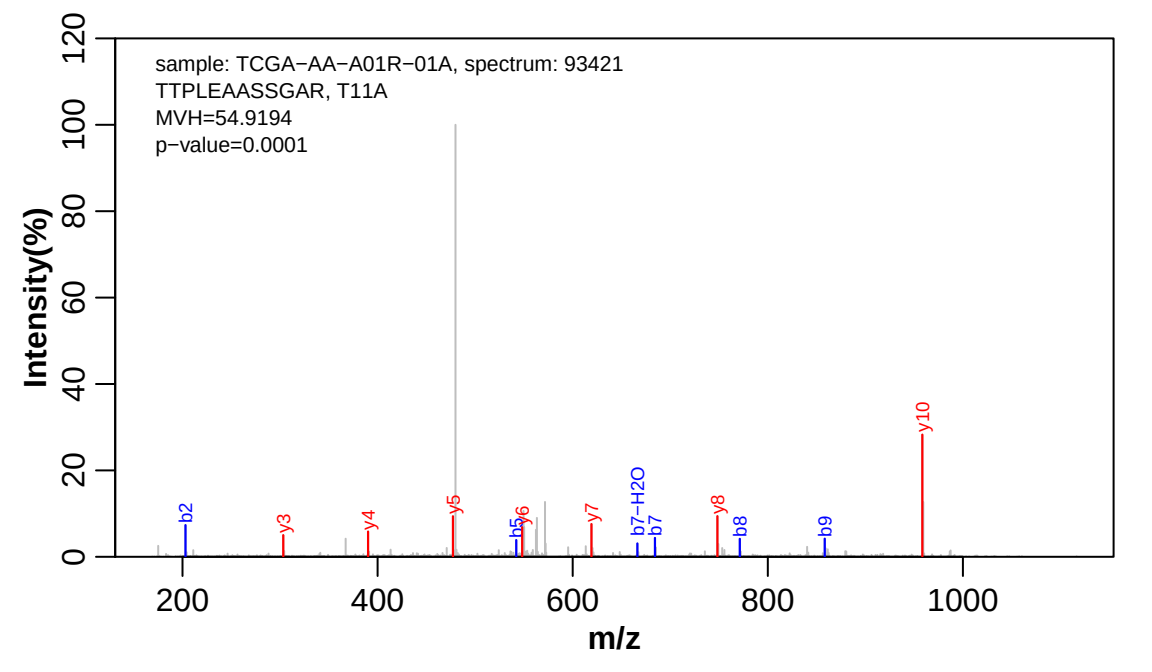

sample: TCGA−AA−A01R−01A, spectrum: 24616
TCSFDFTGAVEDLSK, G3S
MVH=69.5731
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
b3
y4
b4−NH3
b4−N2H3
y5
b5−H2O
b5
y6
b6−NH3
b6−H2O
b7
y8
y8−H2O
b7
y9
b8−H2O
b9
y10
y10−H2O
b10
y11
y11−H2O
b11−NH3
b11−N2H3
b11
y12
b12
y13
y13−H2O
b13−H2O
b13
b14

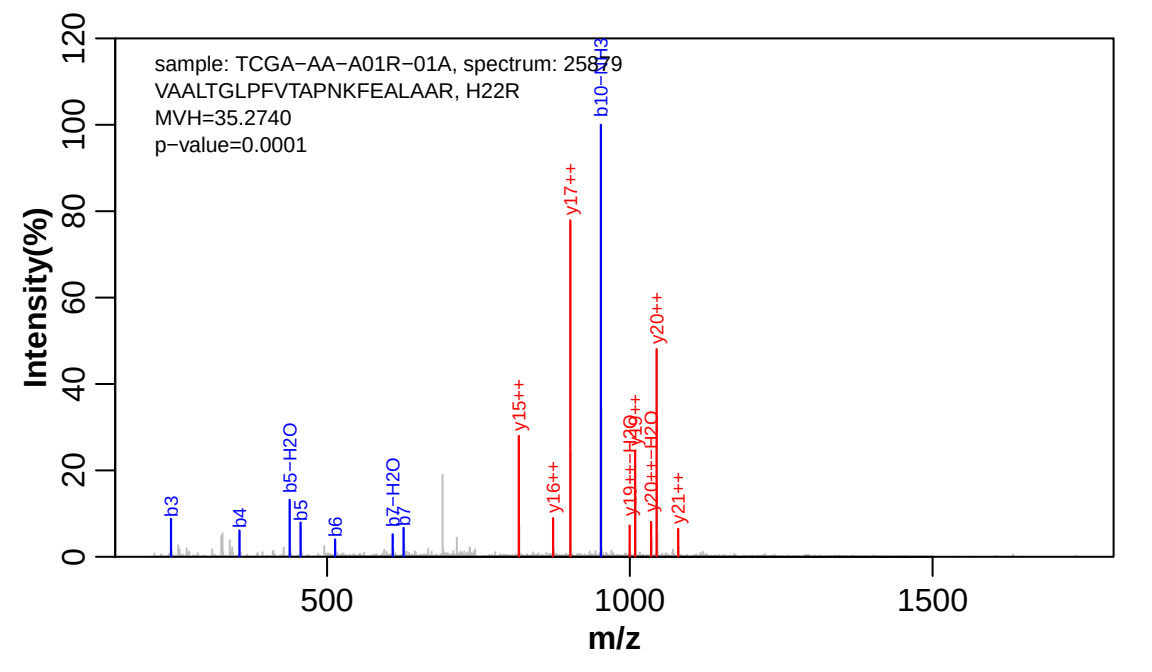

sample: TCGA−AA−A01R−01A, spectrum: 113905
TLNEADCATLPPALR, V10I
MVH=41.1864
p−value=0.0001
y5
y6
b7
b10
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

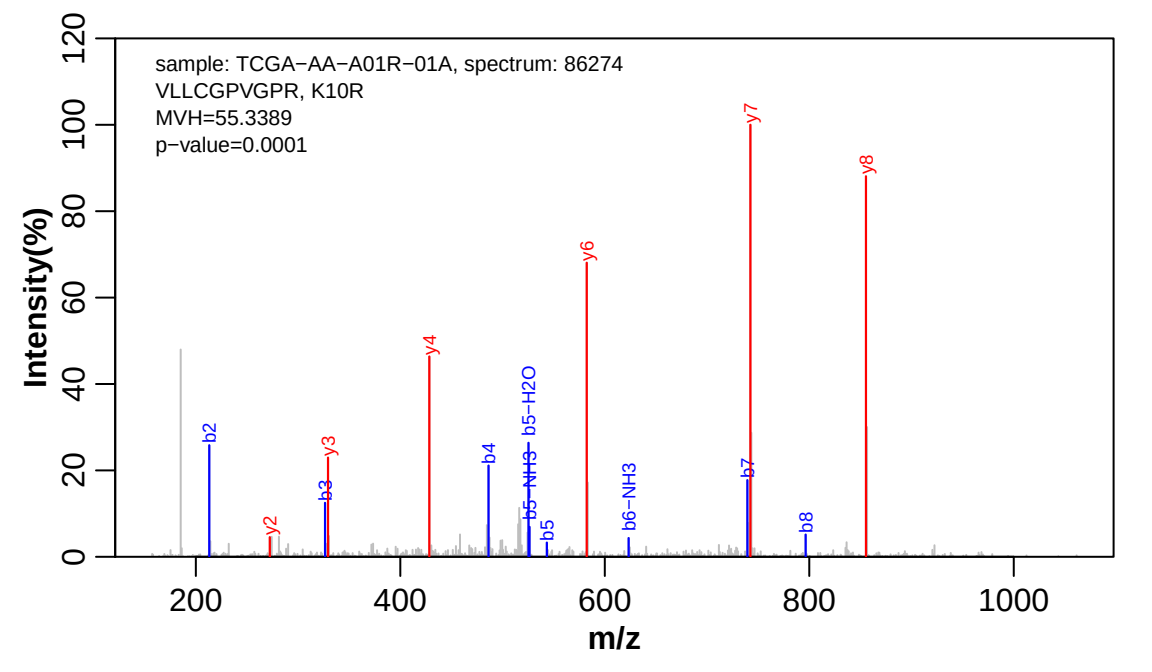

sample: TCGA−AA−A01R−01A, spectrum: 130998
TLSGGLAVNGPR, P7A
MVH=62.1232
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
y3
b4−H2O
b5−H2O
b5
y4−NH3
y4
b6−H2O
b6
y5
b7−H2O
y6
y8
y7−NH3
y7
b8
b9
y8
y9
b10−NH3
b10
y10−NH3
y10
b11

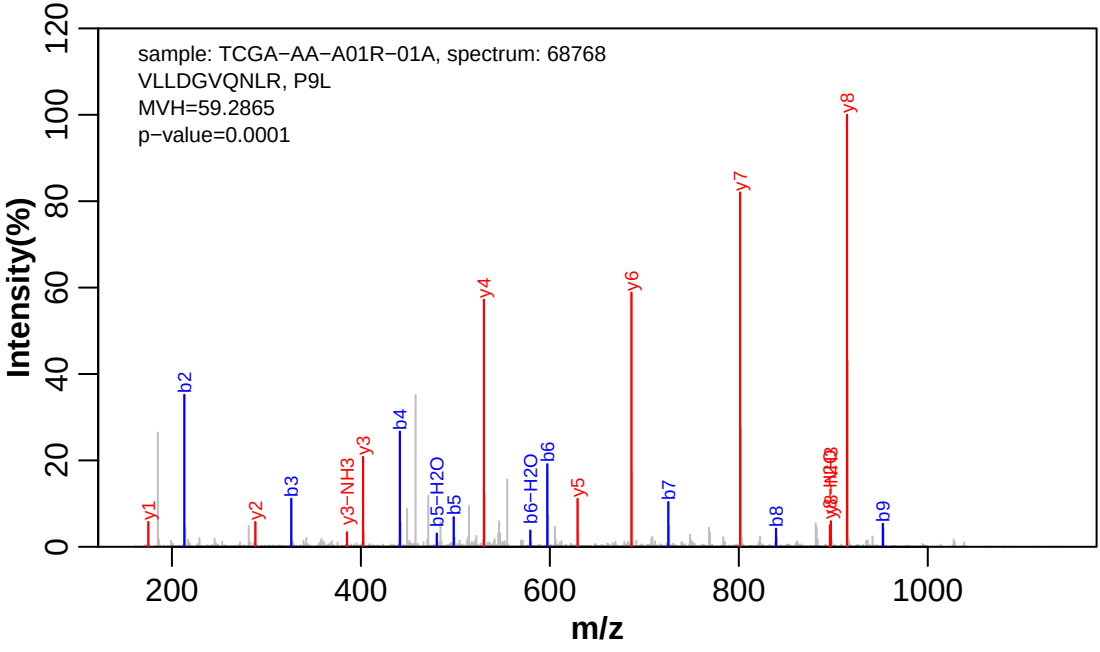

sample: TCGA−AA−A01R−01A, spectrum: 93649
TPEFYNR, M1T
MVH=31.8562
p−value=0.0067
Intensity(%)
m/z
y1−H2O
y1
b2−H2O
b2
y2−NH3
y2
b3−H2O
b3
y3−NH3
y3
b4
y4−H2O
y4
b5−NH3
b5
y5−NH3
y5−H2O
b6
y6

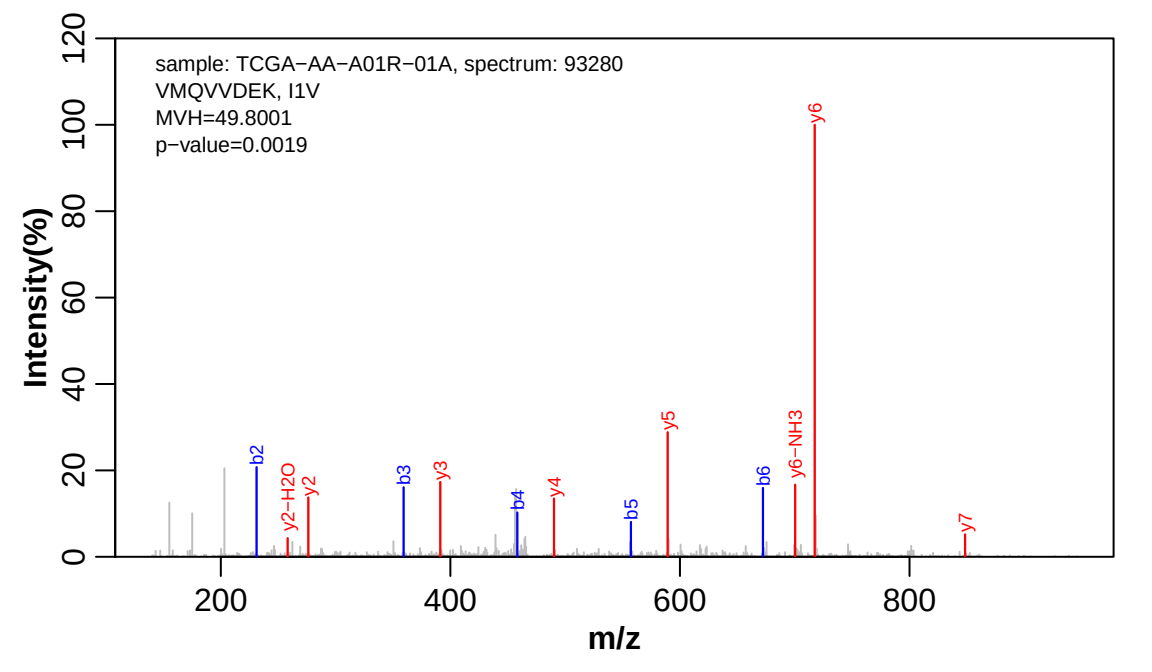

sample: TCGA−AA−A01R−01A, spectrum: 65513
TSLSAPPNTSSTENPK, S9T
MVH=46.8499
p−value=0.0001
y11
b5−H2O
b5
y10
y12
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

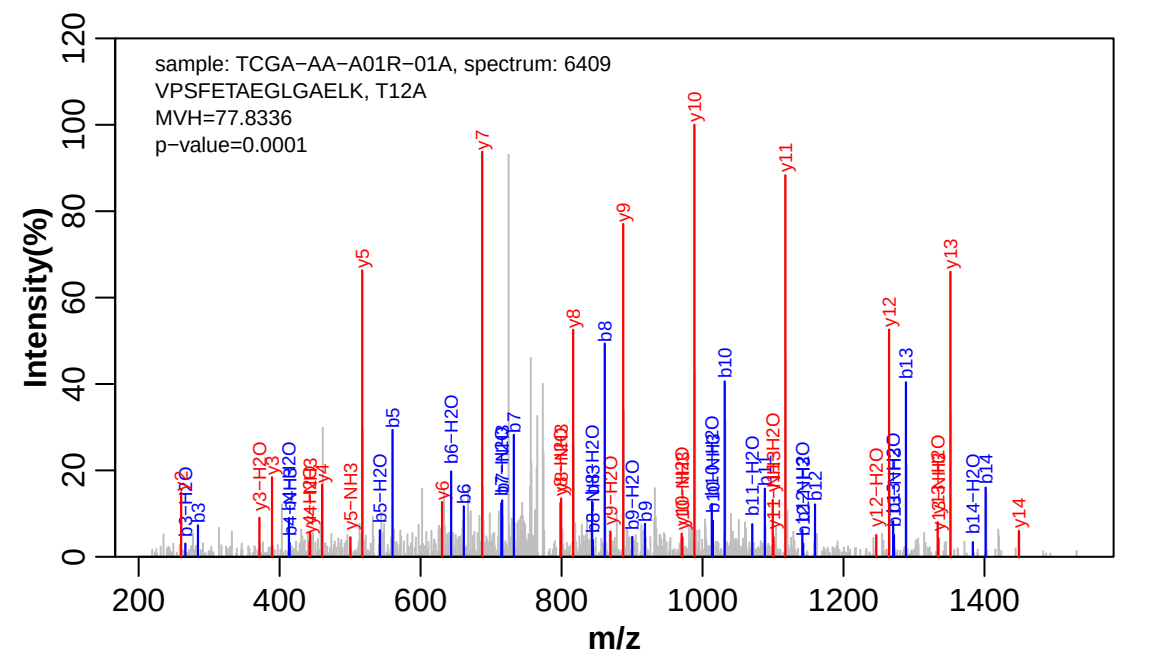

sample: TCGA−AA−A01R−01A, spectrum: 93421
TTPLEAASSGAR, T11A
MVH=54.9194
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
y4
y5
b5
b6
y7
b7−H2O
b7
y8
b8
b9
y10

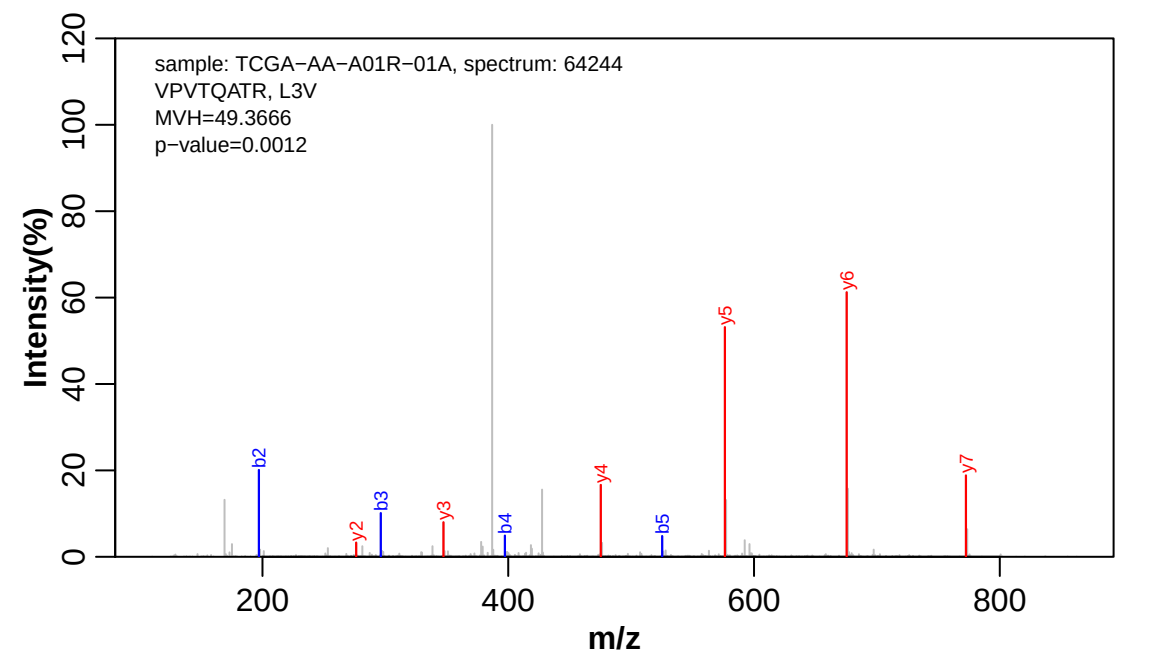

sample: TCGA−AA−A01R−01A, spectrum: 25879
VAALTGLPFVTAPNKFEALAAR, H22R
MVH=35.2740
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b4
b5−H2O
b5
b6
b7−H2O
b7
y15++
y16++
y17++
b10−H3
y19++−H2O
y19++
y20++−H2O
y20++
y21++

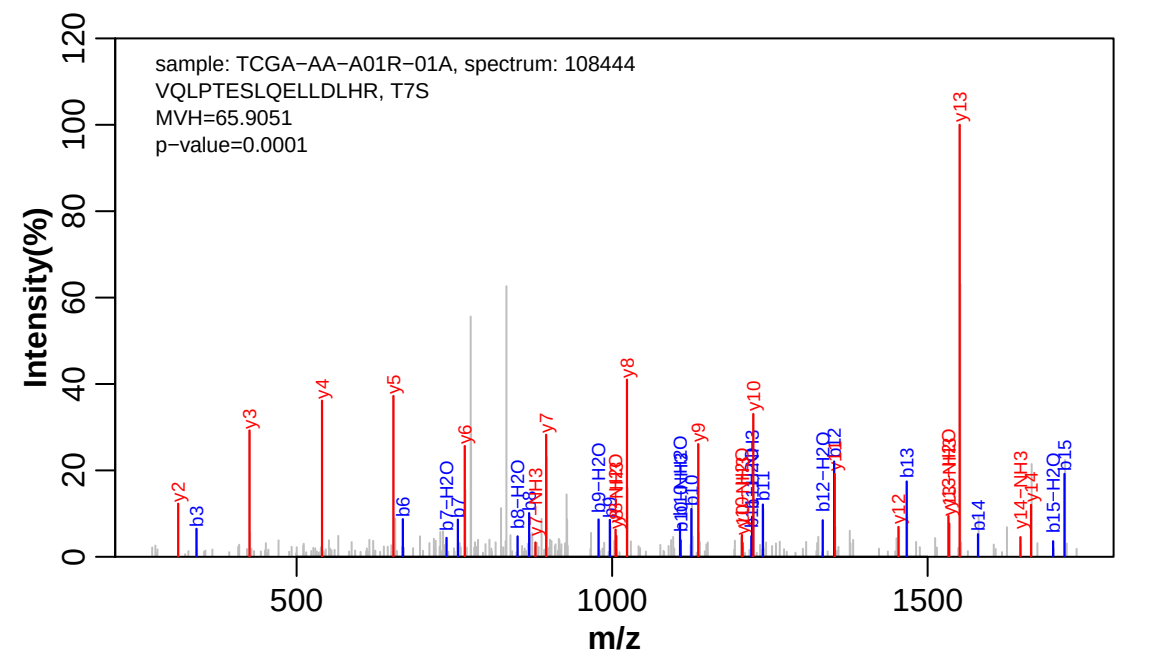

sample: TCGA−AA−A01R−01A, spectrum: 86274
VLLCGPVGPR, K10R
MVH=55.3389
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
y3
b3
y4
b4
b5−NH3
b5−H2O
b5
y6
b6−NH3
b7
y7
b8
y8

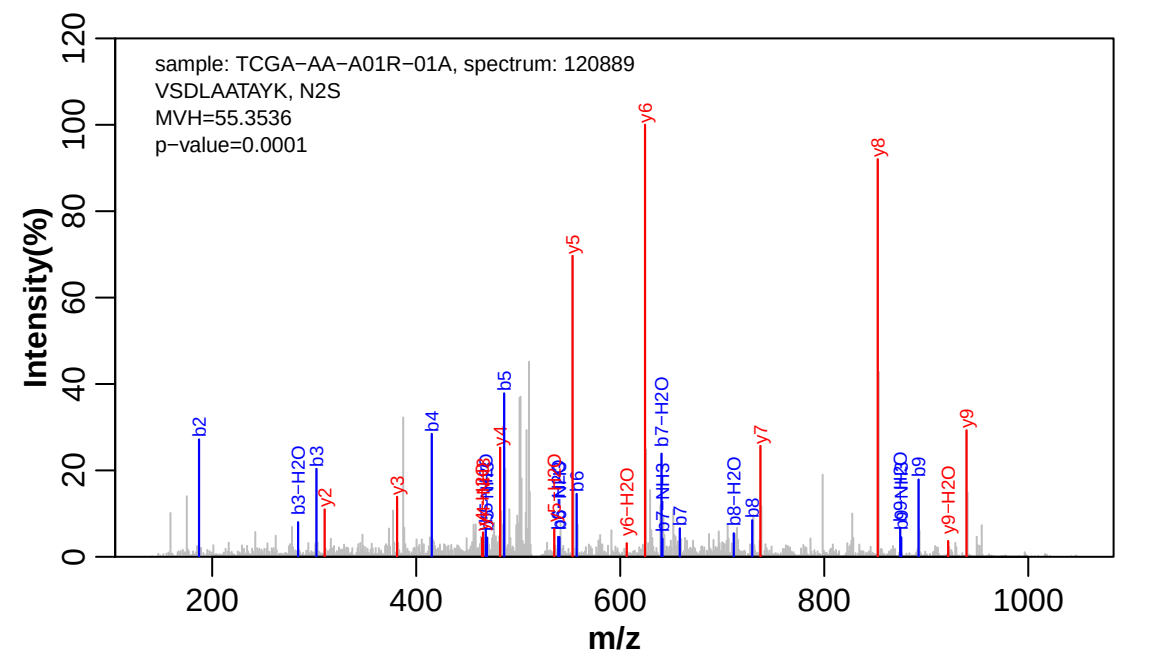

sample: TCGA−AA−A01R−01A, spectrum: 68768
VLLDGVQNLR, P9L
MVH=59.2865
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3−NH3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9

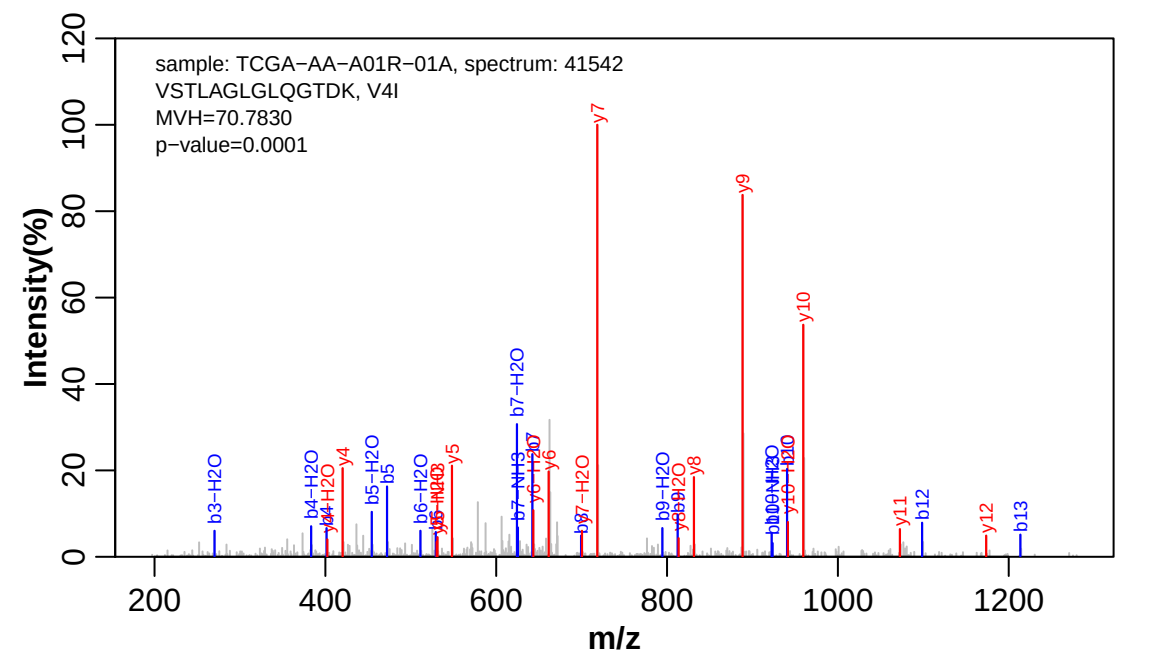

sample: TCGA−AA−A01R−01A, spectrum: 93280
VMQVVDEK, I1V
MVH=49.8001
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6−NH3
y6
y7

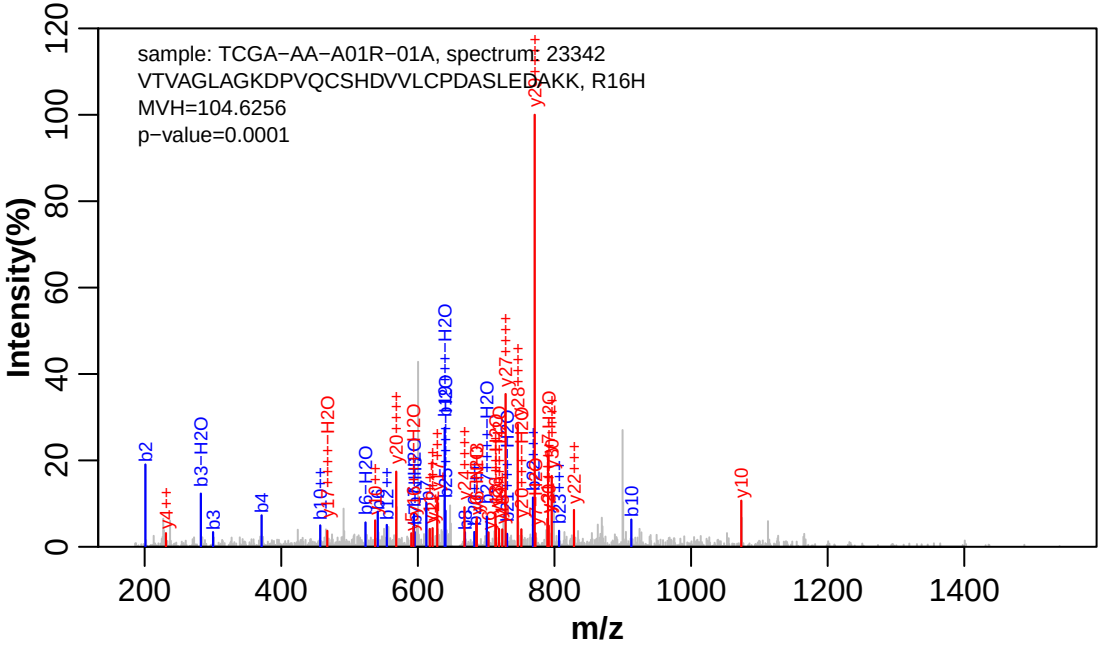

sample: TCGA−AA−A01R−01A, spectrum: 6409
VPSFETAEGLGAELK, T12A
MVH=77.8336
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y7
y11
y5
y9
y8
y12
y13
y14
b8
b10
b5
b6−H2O
b9
b13
b14−H2O
b12
y3−H2O
y5−NH3
b5−H2O
y6
b6
b11−H2O
y12−H2O
b3
b3−H2O
y3
y4

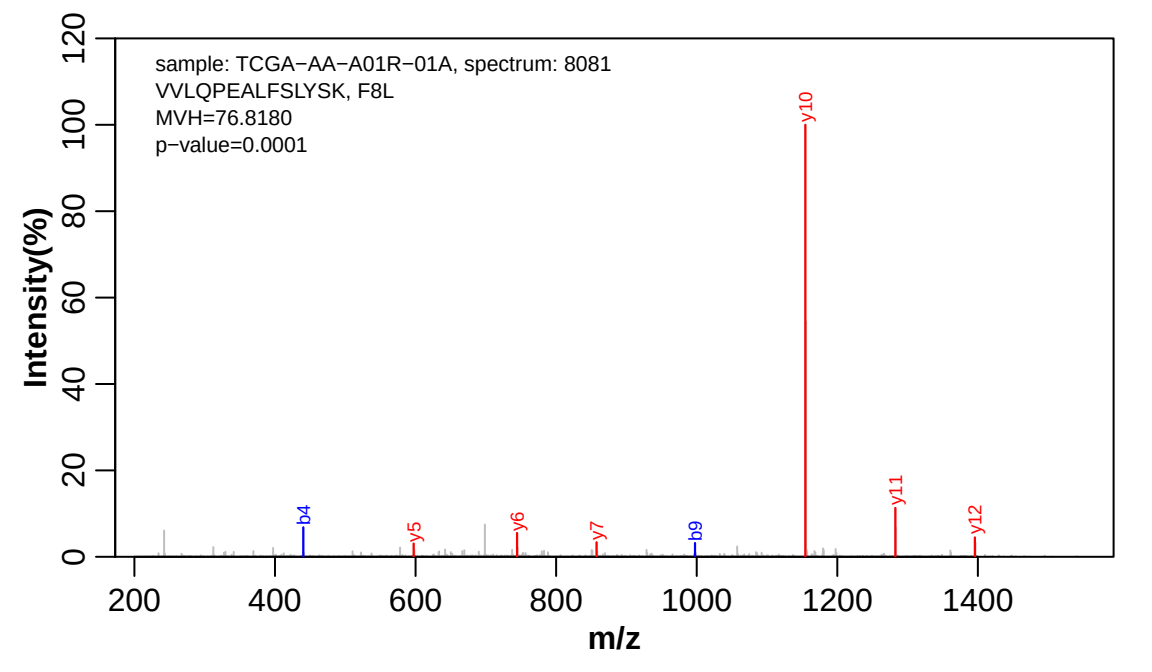

sample: TCGA−AA−A01R−01A, spectrum: 64244
VPVTQATR, L3V
MVH=49.3666
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
b4
y4
b5
y5
y6
y7

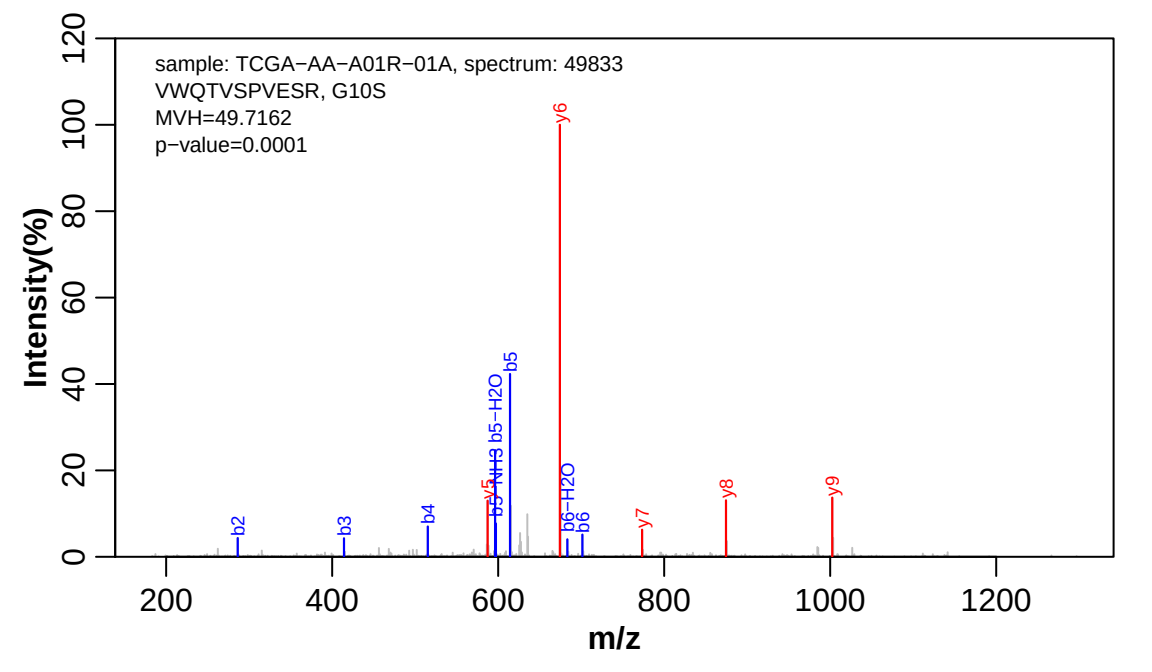

sample: TCGA−AA−A01R−01A, spectrum: 108444
VQLPTESLQELLDLHR, T7S
MVH=65.9051
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
y3
y4
y5
b6
b7−H2O
y6
b7
b8−H2O
b8
y7−NH3
y7
b9−H2O
y8
y8−NH3
y8−H2O
b10−NH3
b10−H2O
b10
y9
b11
y10
b12−H2O
y11
b12
v12
b13
y13−NH3
y13−H2O
y13
b14
y14−NH3
y14
b15−H2O
b15

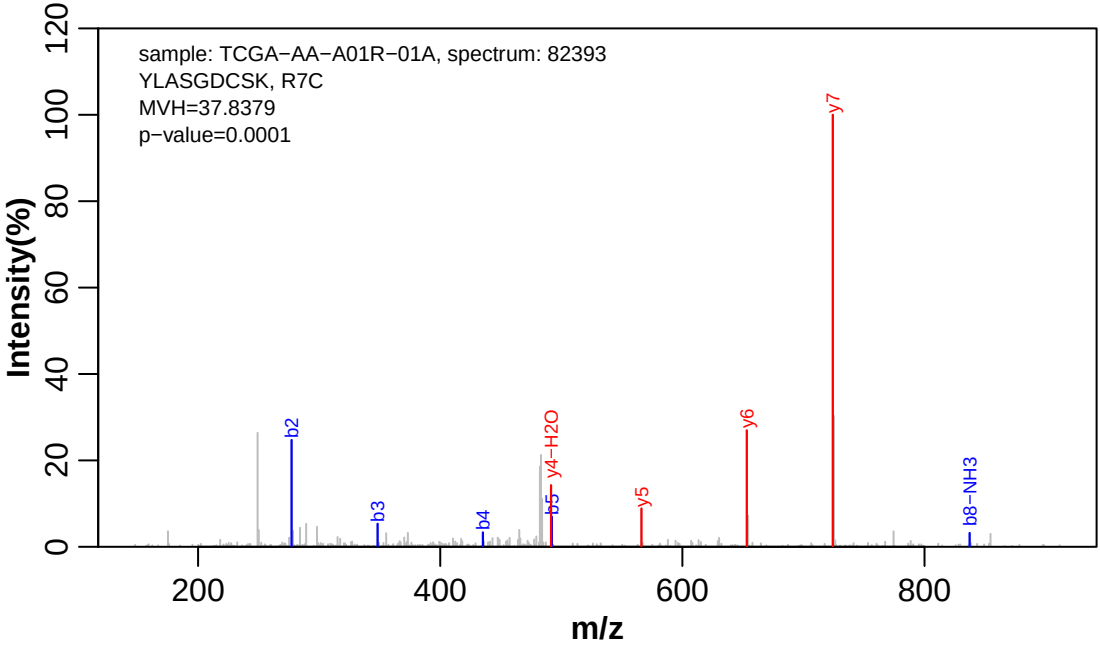

sample: TCGA−AA−A01R−01A, spectrum: 120889
VSDLAATAYK, N2S
MVH=55.3536
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5
y4
y5
b6
y6−H2O
y6
b7−NH3
b7−H2O
b7
b8−H2O
b8
y7
y8
b9
y9−H2O
y9

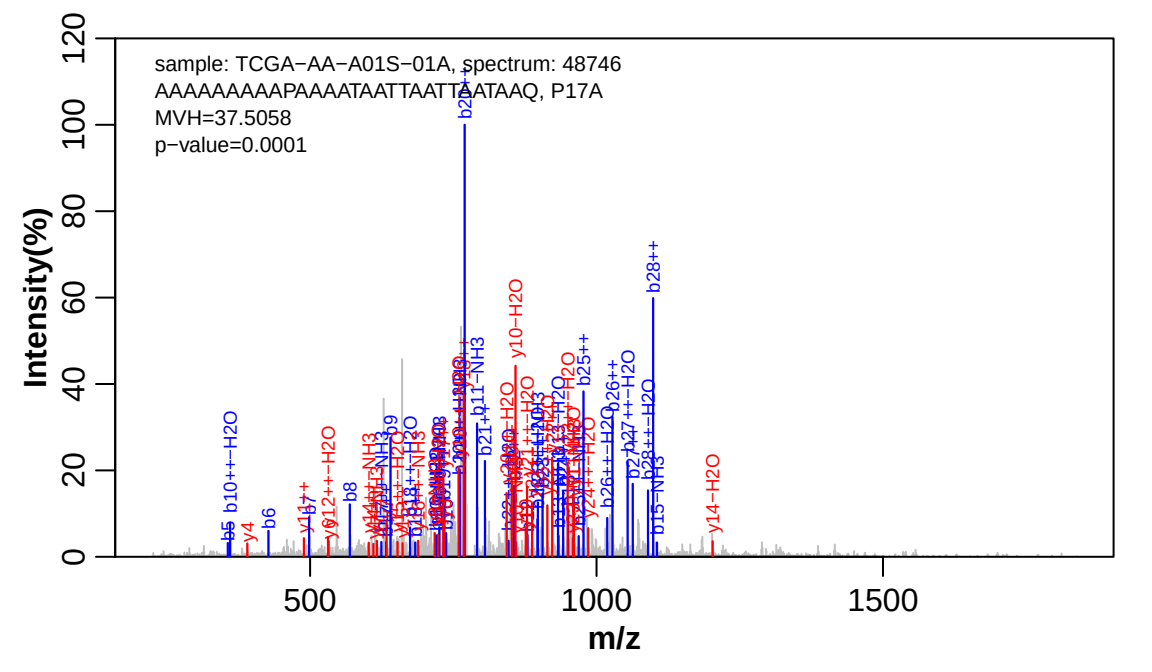

sample: TCGA−AA−A01R−01A, spectrum: 41542
VSTLAGLGLQGTDK, V4I
MVH=70.7830
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b4−H2O
y4
b5−H2O
b5
b6−H2O
y5
b7−NH3
b7−H2O
y6
y7
b8−H2O
y8
b9−H2O
y9
y10
b12
y11
y12
b13

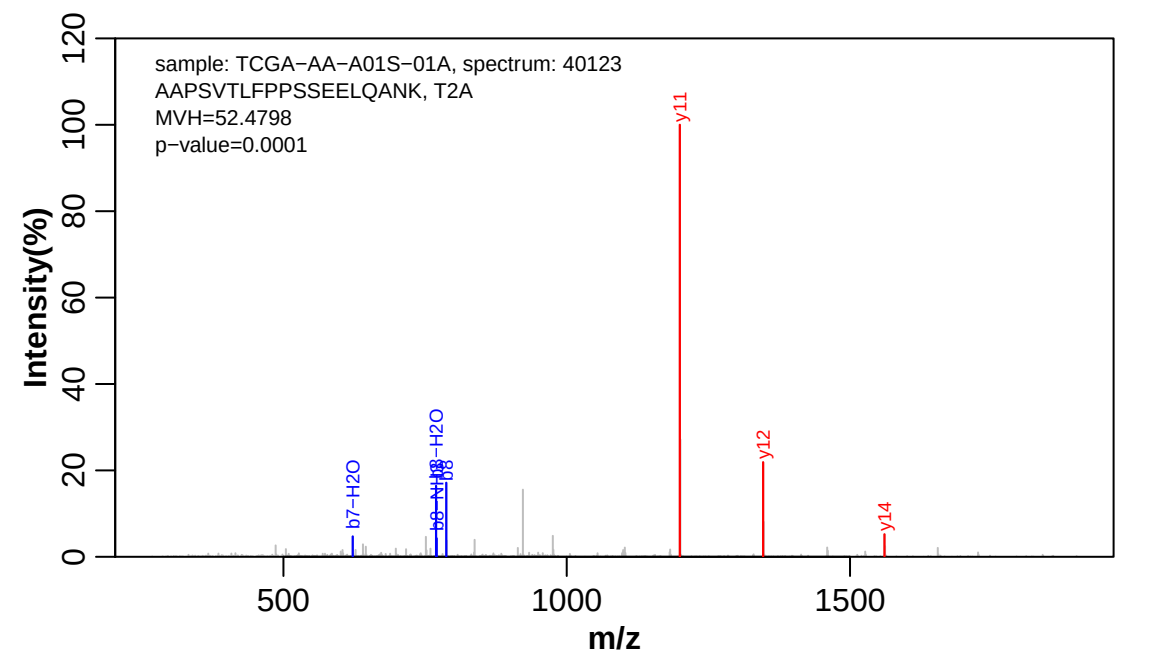

sample: TCGA−AA−A01R−01A, spectrum: 23342
VTVAGLAGKDPVQCSHDVVLCPDASLEDAKK, R16H
MVH=104.6256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4++
b3−H2O
b3
b4
y19++
y19++−H2O
b6−H2O
b6
b12++
y20+++
y20+++−H2O
b23+++−H2O
y27++++
y28+++
y22+++
b10
y10

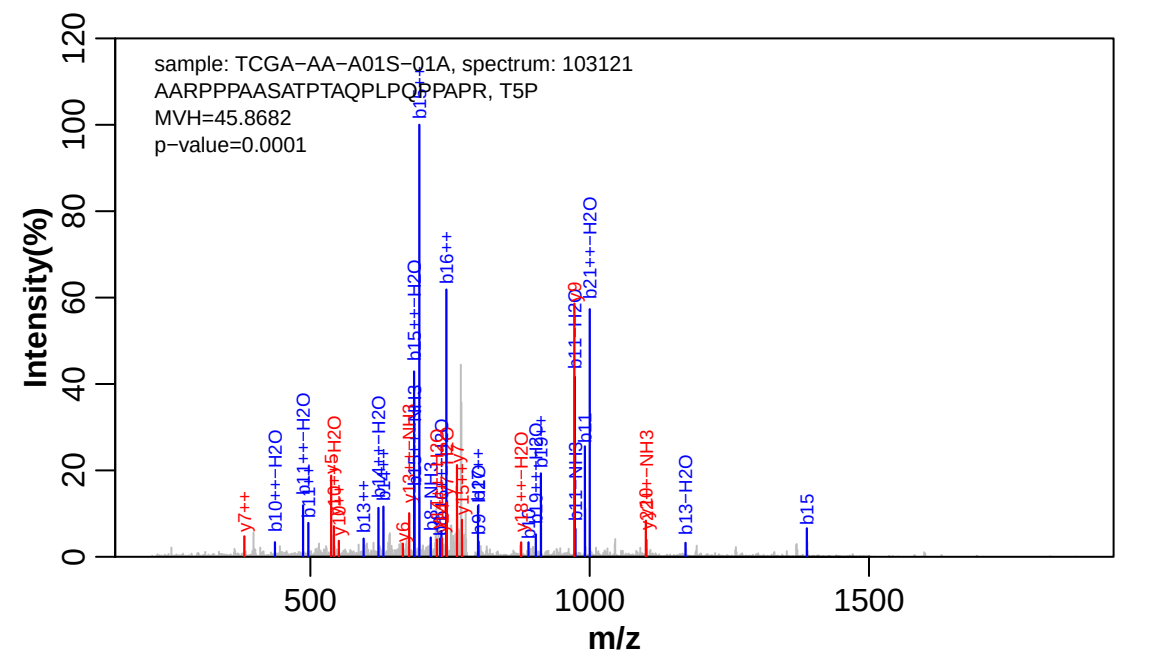

sample: TCGA−AA−A01R−01A, spectrum: 8081
VVLQPEALFSLYSK, F8L
MVH=76.8180
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b4
y5
y6
y7
b9
y10
y11
y12

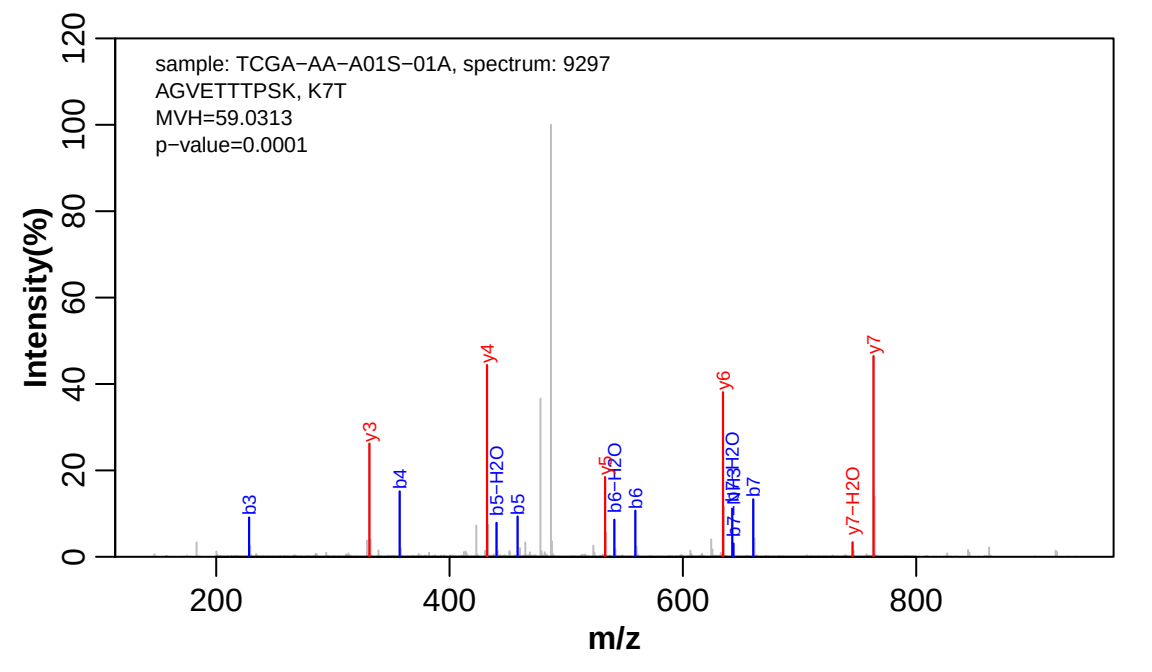

sample: TCGA−AA−A01R−01A, spectrum: 49833
VWQTVSPVESR, G10S
MVH=49.7162
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
y5
b5−NH3
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9

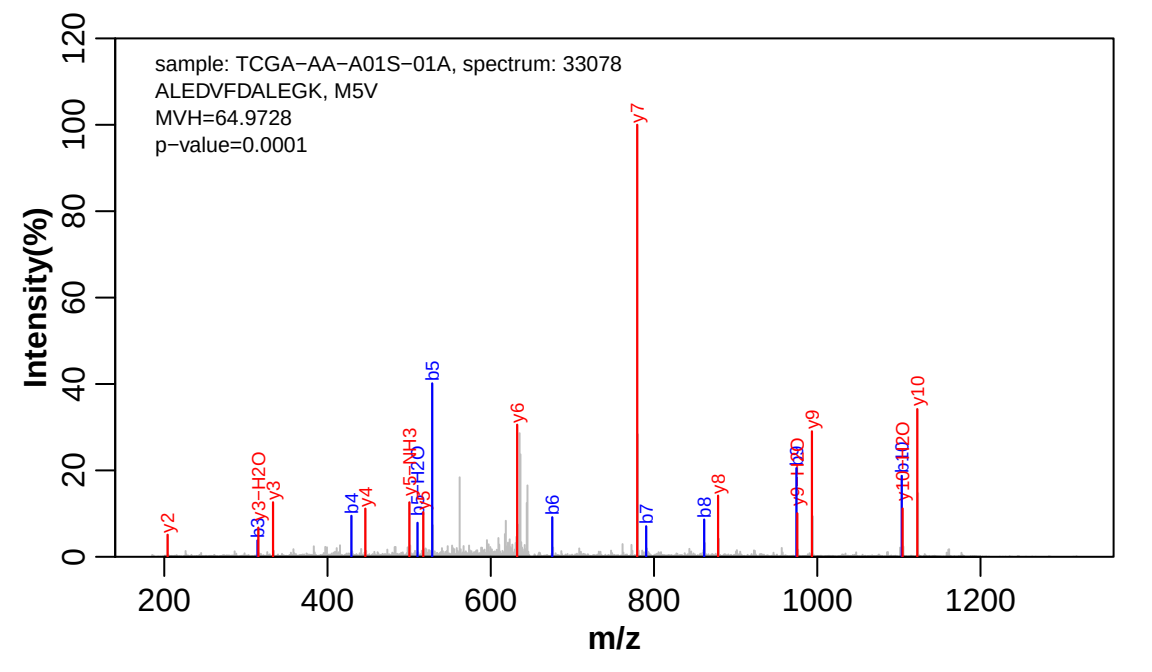

sample: TCGA−AA−A01R−01A, spectrum: 82393
YLASGDCSK, R7C
MVH=37.8379
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
b4
b5
y4−H2O
y5
y6
y7
b8−NH3

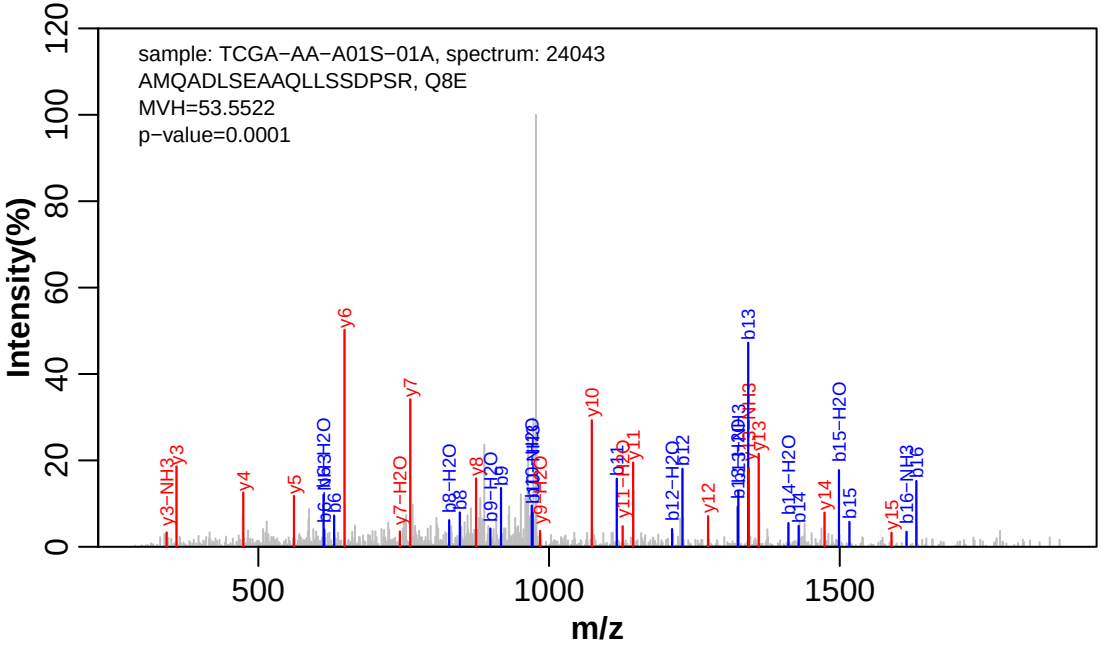

sample: TCGA−AA−A01S−01A, spectrum: 48746
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.5058
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2++
b10++−H2O
y10−H2O
b28++
b11−NH3
b25++
b26++
b27++−H2O
y14−H2O
b15−NH3
b28++−H2O
y4
b6
b8
y12++−H2O

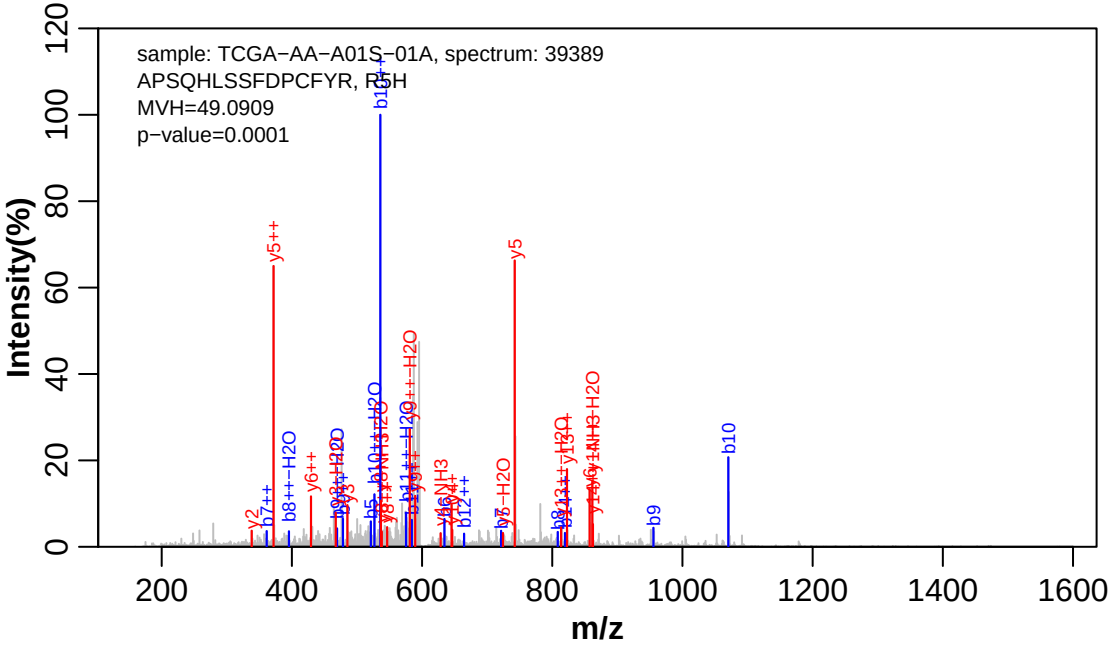

sample: TCGA−AA−A01S−01A, spectrum: 40123
AAPSVTLFPPSSEELQANK, T2A
MVH=52.4798
p−value=0.0001
y11
y12
y14
b7−H2O
b8−NH3−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

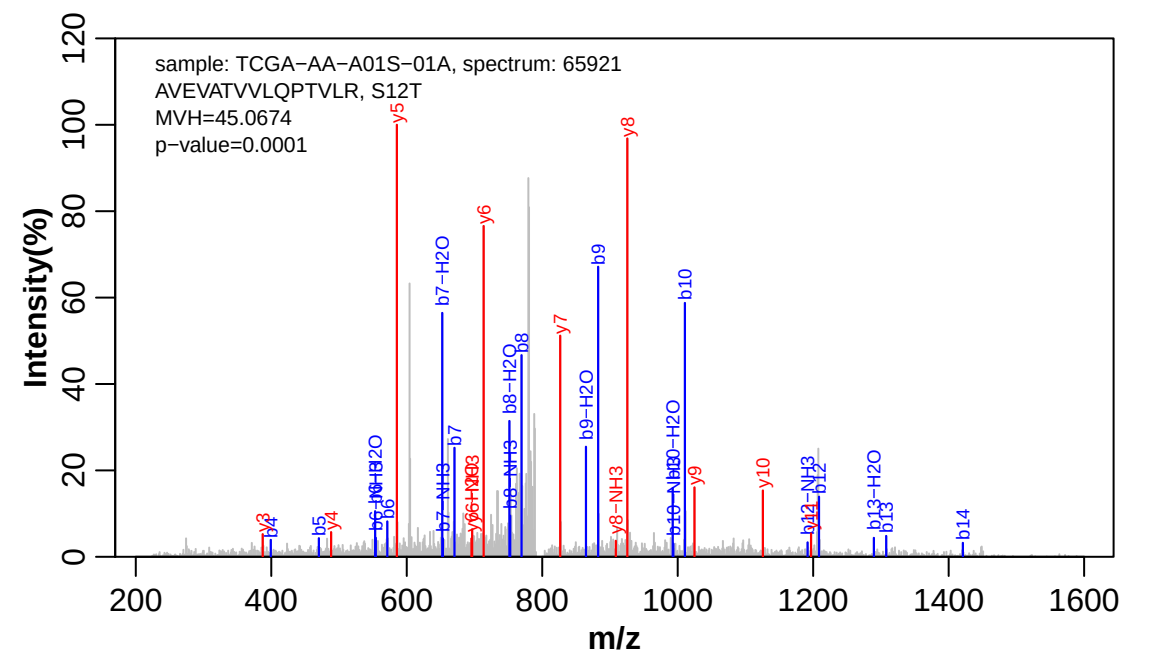

sample: TCGA−AA−A01S−01A, spectrum: 103121
AARPPPAASATPTAQPLPQPPAPR, T5P
MVH=45.8682
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15
b13−H2O
b16++
b21++−H2O
b11−H2O
b11
b11−NH3
y7++
b10++−H2O
b11++−H2O
b13++
b14++−H2O
b15++−H2O
b15++−NH3
b13++−H2O
b14++
y21++−NH3

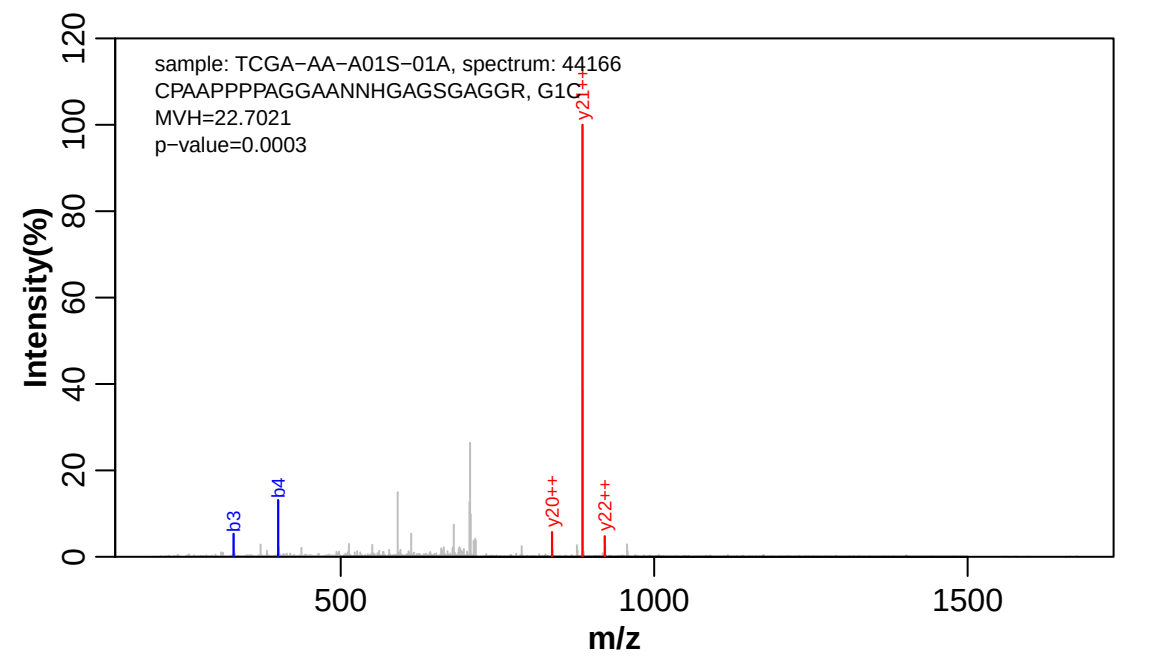

sample: TCGA−AA−A01S−01A, spectrum: 9297
AGVETTTPSK, K7T
MVH=59.0313
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y7−H2O

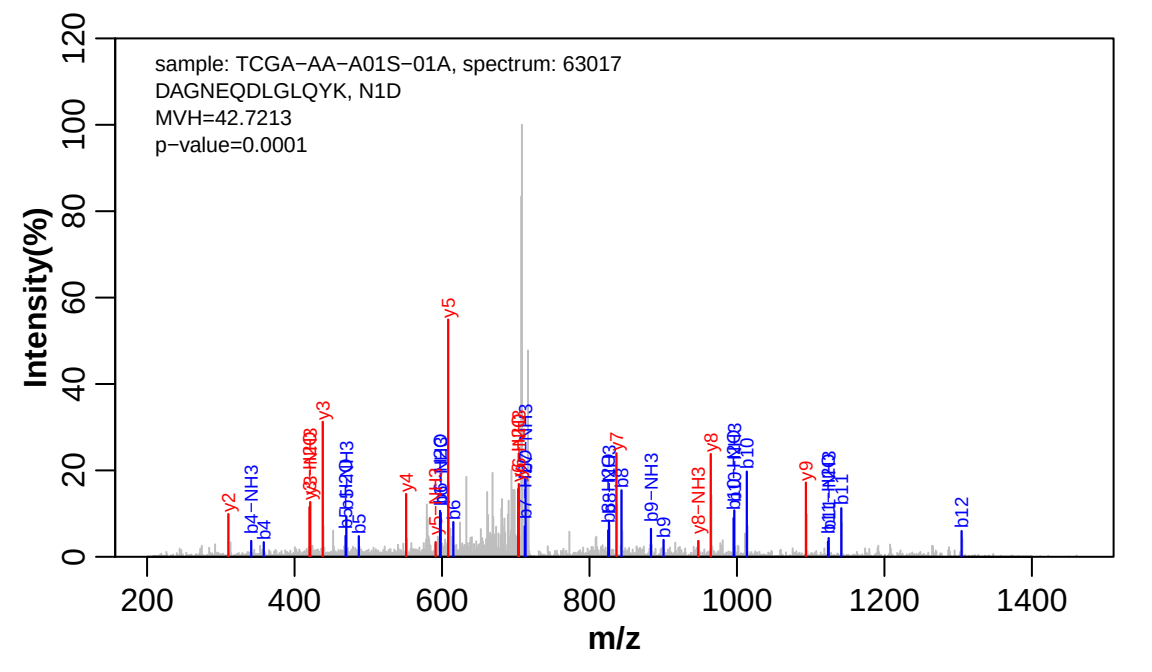

sample: TCGA−AA−A01S−01A, spectrum: 33078
ALEDVFDALEGK, M5V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y5−NH3
y5−H2O
y5
y6
b6
y7
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

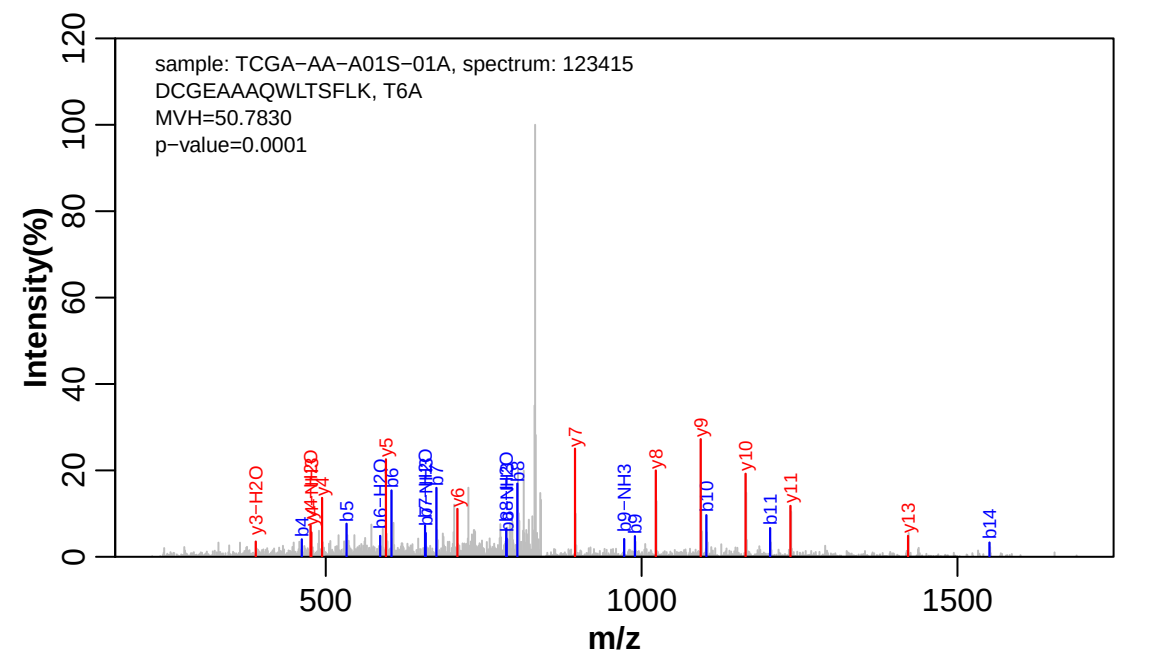

sample: TCGA−AA−A01S−01A, spectrum: 24043
AMQADLSEAAQLLSSDPSR, Q8E
MVH=53.5522
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y3−NH3
y4
y5
y6
y7
y7−H2O
y8
y8−H2O
y9
y10
y11
y11−H2O
y12
y13
y14
y15
b6
b8
b8−H2O
b9
b9−H2O
b12
b12−H2O
b13
b14
b14−H2O
b15
b15−H2O
b16
b16−NH3

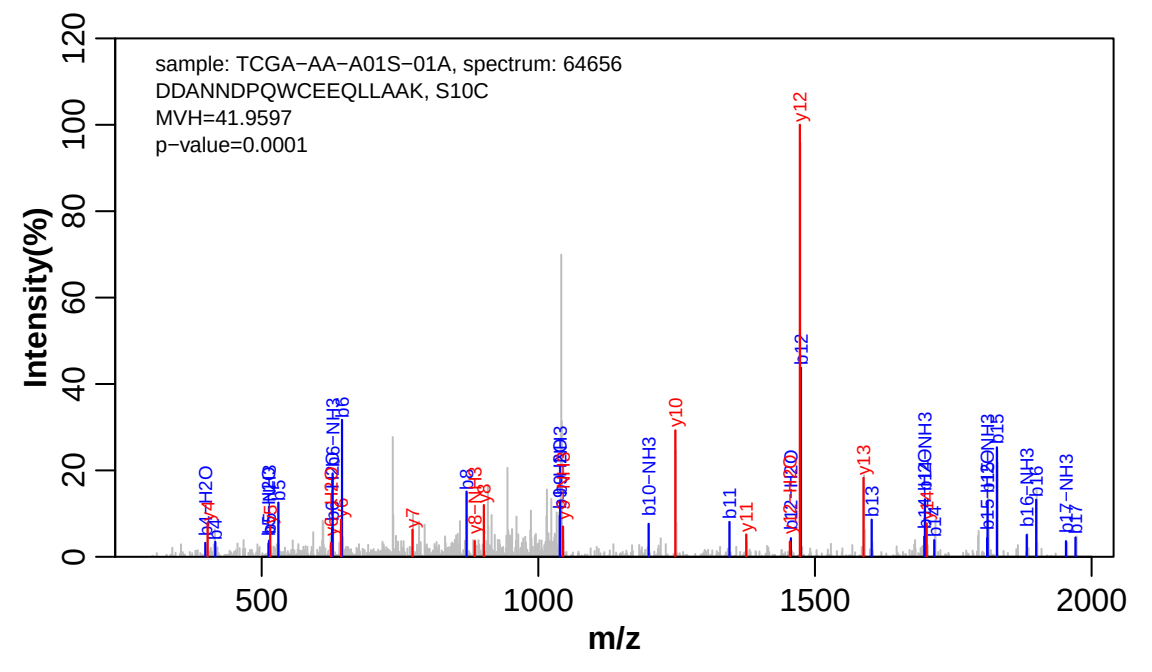

sample: TCGA−AA−A01S−01A, spectrum: 39389
APSQHLSSFDPCFYR, RSH
MVH=49.0909
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++
y5++
y5
b10
b9
b7++−H2O
b8++−H2O
y6++
y2
b12++
b7−H2O
y6++−H2O
y6++−NH3−H2O
b5
b10−NH3−H2O
b10−H2O
y6++−H2O

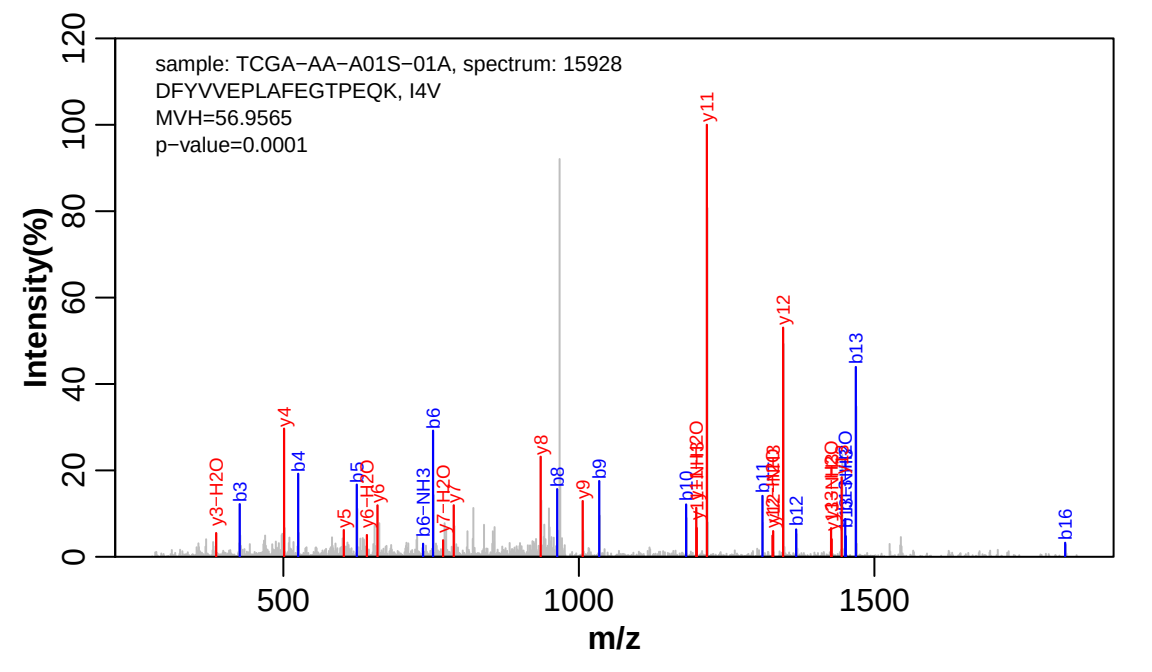

sample: TCGA−AA−A01S−01A, spectrum: 65921
AVEVATVVLQPTVLR, S12T
MVH=45.0674
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y8
y6
b7−H2O
b9
b10
y7
b8
b8−H2O
b9−H2O
b7
b7−NH3
b8−NH3
y8−NH3
y10
y9
b12
b12−NH3
b13−H2O
b13
b14
y3
b4
b5
y4
b6

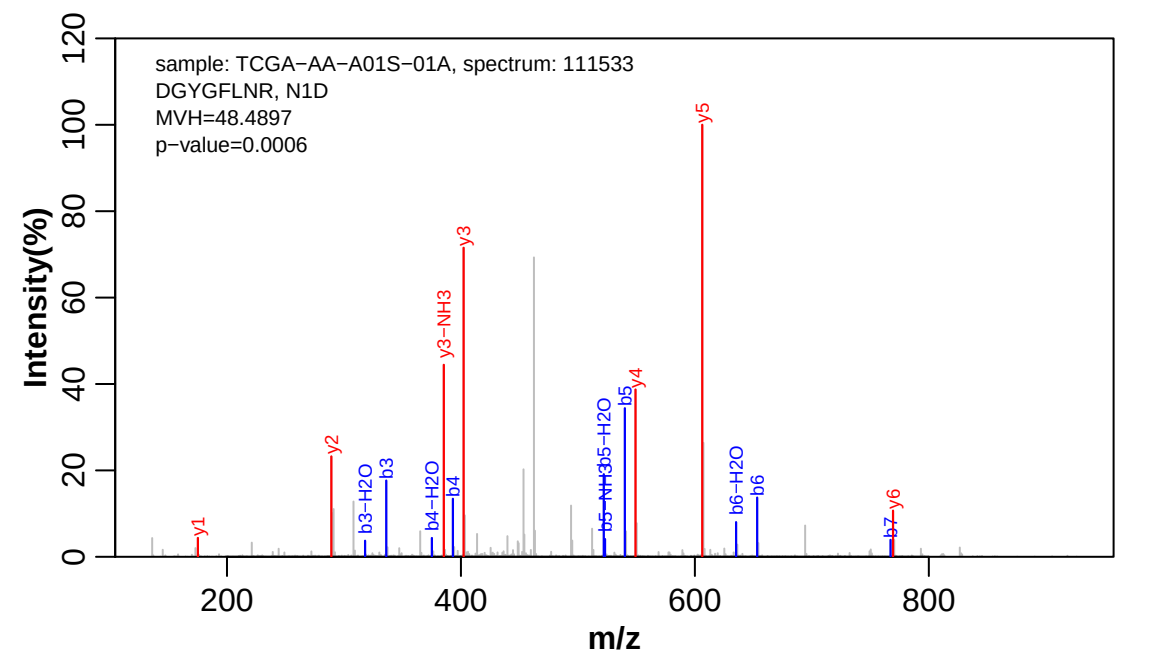

sample: TCGA−AA−A01S−01A, spectrum: 44166
CPAAPPPPAGGAANNHGAGSGAGGR, G1C1
MVH=22.7021
p−value=0.0003
y21++
b3
b4
y20++
y22++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

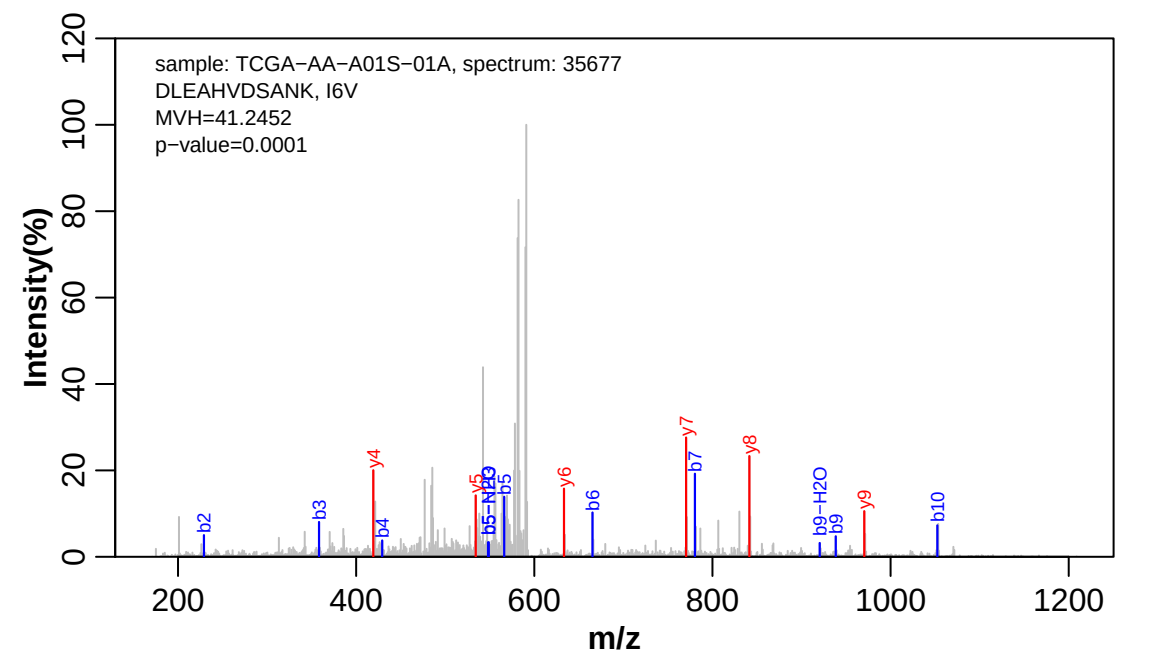

sample: TCGA−AA−A01S−01A, spectrum: 63017
DAGNEQDLGLQYK, N1D
MVH=42.7213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−NH3
b4
y3
y4
y5
b5
b6
y7
b8
b9−NH3
b9
y8−NH3
y8
b10
y9
b11
b12

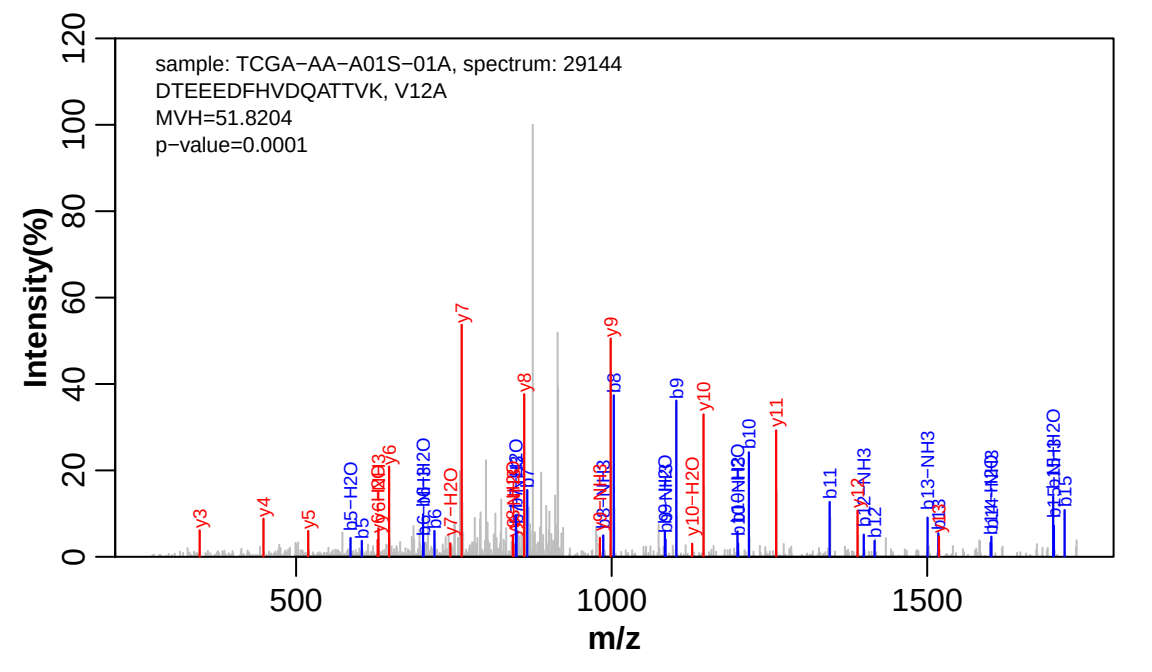

sample: TCGA−AA−A01S−01A, spectrum: 123415
DCGEAAAQWLTSFLK, T6A
MVH=50.7830
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3−H2O
b4
y4
b5
b6−H2O
y5
b6
b7
y6
y7
b9−NH3
b9
y8
y9
b10
y10
b11
y11
y13
b14

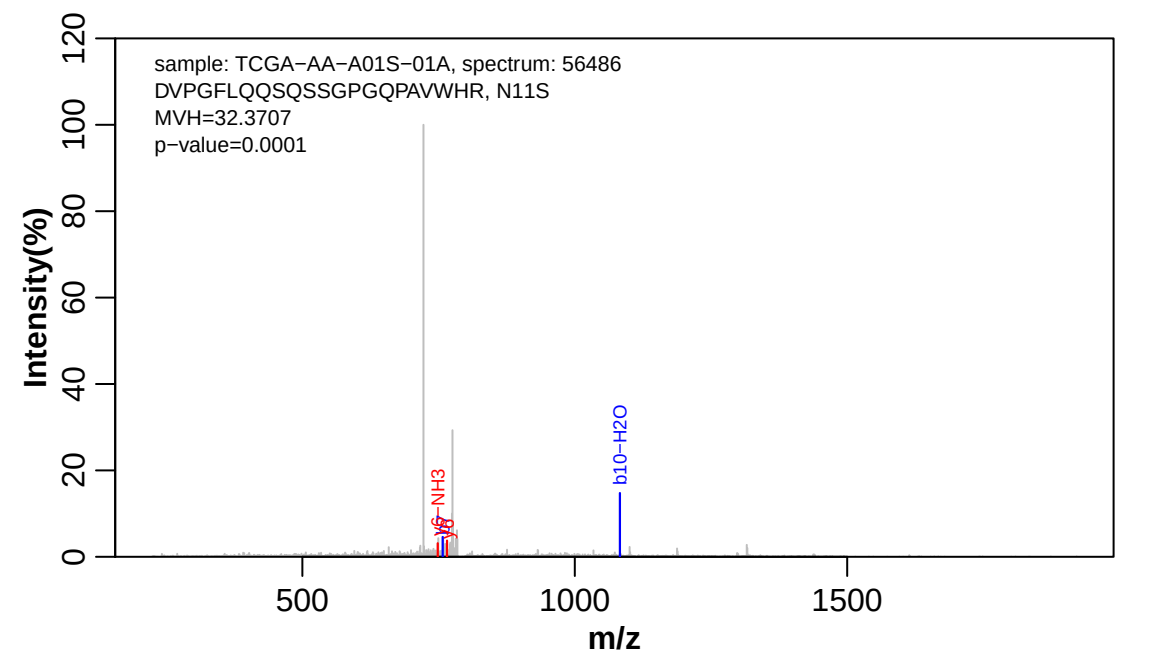

sample: TCGA−AA−A01S−01A, spectrum: 64656
DDANNDPQWCEEQLLAAK, S10C
MVH=41.9597
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
b12
y10
y13
b10−NH3
b11
y11
y7
b13
b16−NH3
b17−NH3

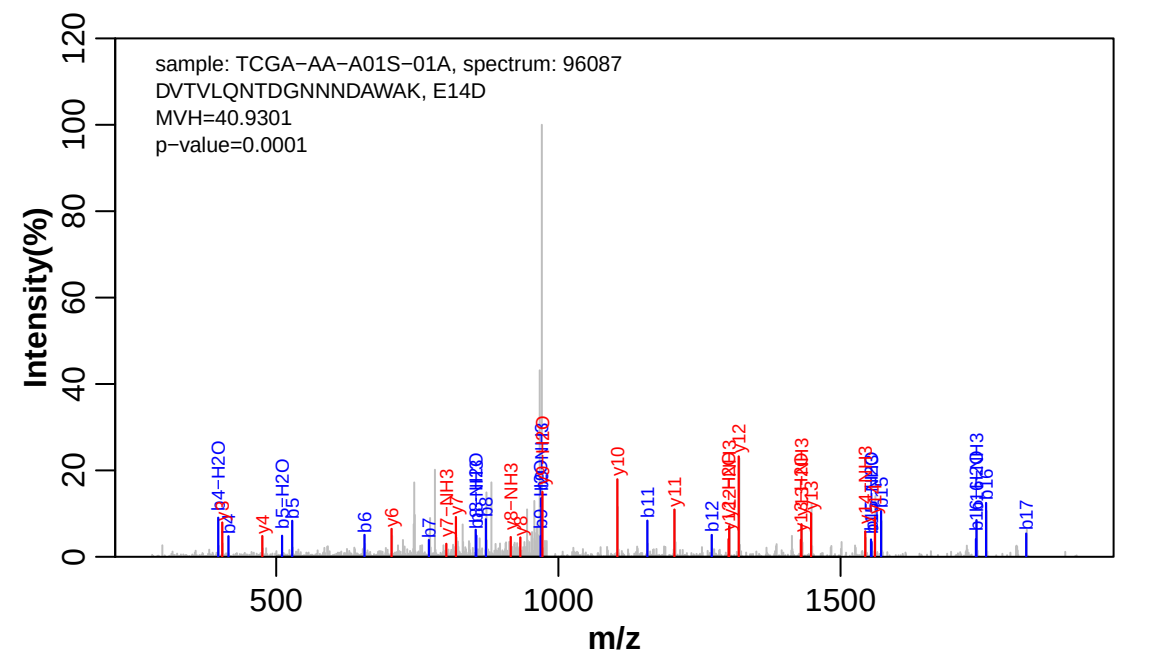

sample: TCGA−AA−A01S−01A, spectrum: 15928
DFYVVEPLAFEGTPEQK, I4V
MVH=56.9565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
y4
y8
b6
b13
b16
b4
b8
b9
b10
b12
y3−H2O
b3
y5
b5
y6−H2O
y6
b6−NH3
y7−H2O
y7
y9
y1
y1−NH3−H2O
b11
y2−NH3
y2
b6−H2O
b6−NH3

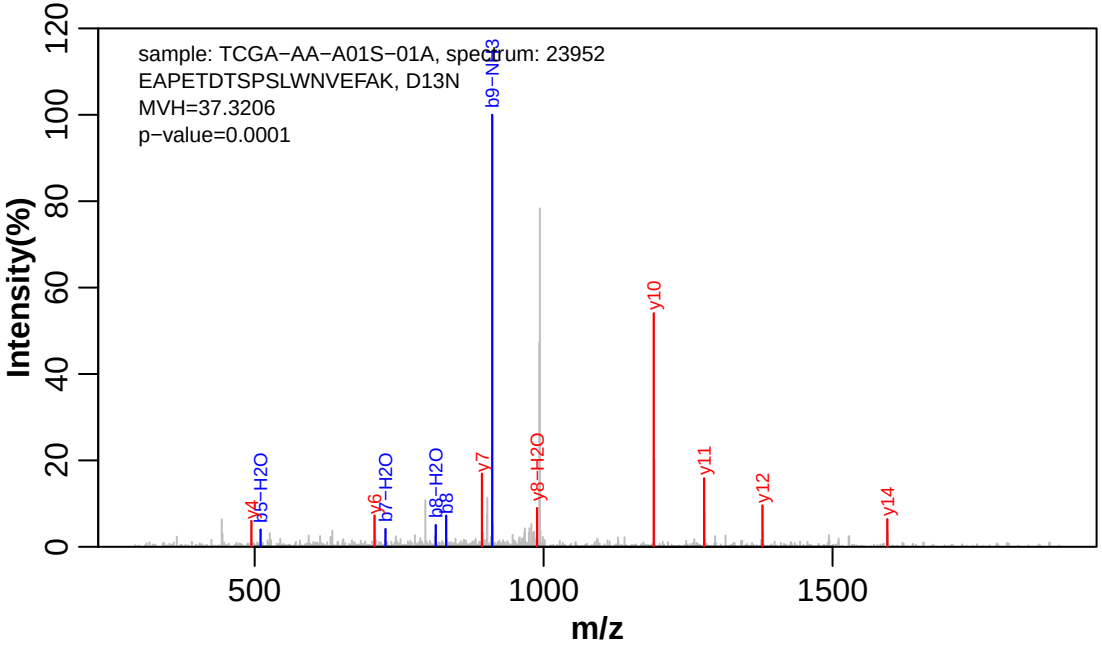

sample: TCGA−AA−A01S−01A, spectrum: 111533
DGYGFLNR, N1D
MVH=48.4897
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

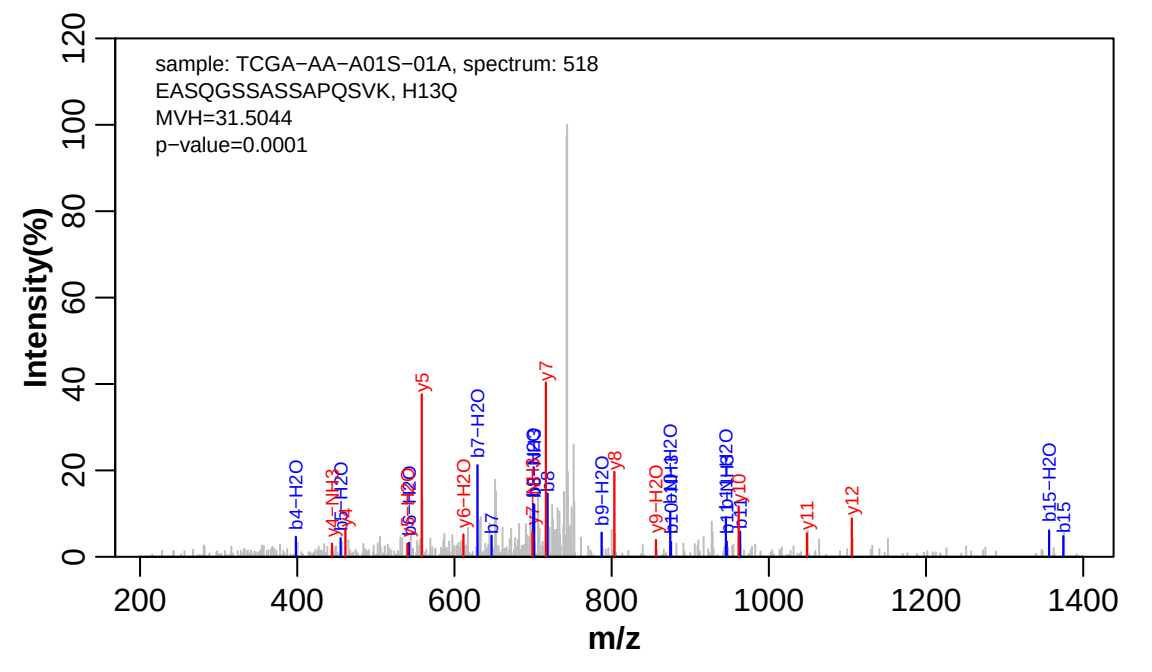

sample: TCGA−AA−A01S−01A, spectrum: 35677
DLEAHVDSANK, I6V
MVH=41.2452
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
b4
y5
b5−NH3
b5
y6
b6
y7
b7
y8
b9−H2O
b9
y9
b10

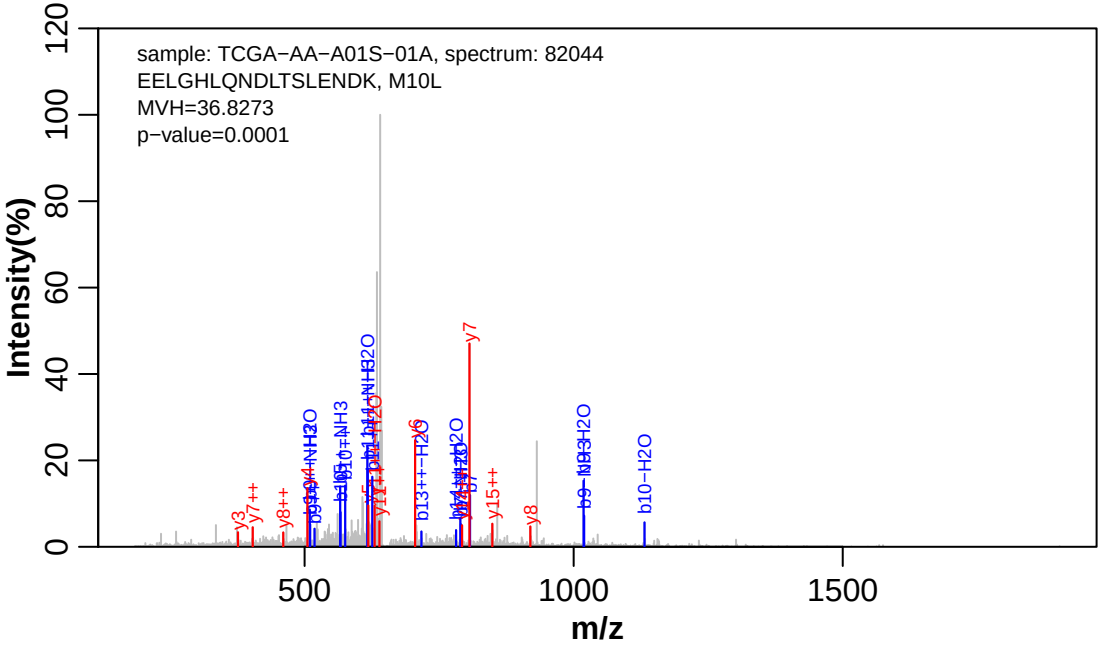

sample: TCGA−AA−A01S−01A, spectrum: 29144
DTEEEDFHVDQATTVK, V12A
MVH=51.8204
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b5−H2O
b5
y6
b6
y7
y7−H2O
y8
b8
y9
b8−NH3
b9
y10
y10−H2O
b10
y11
b11
b12
b13−NH3
b15

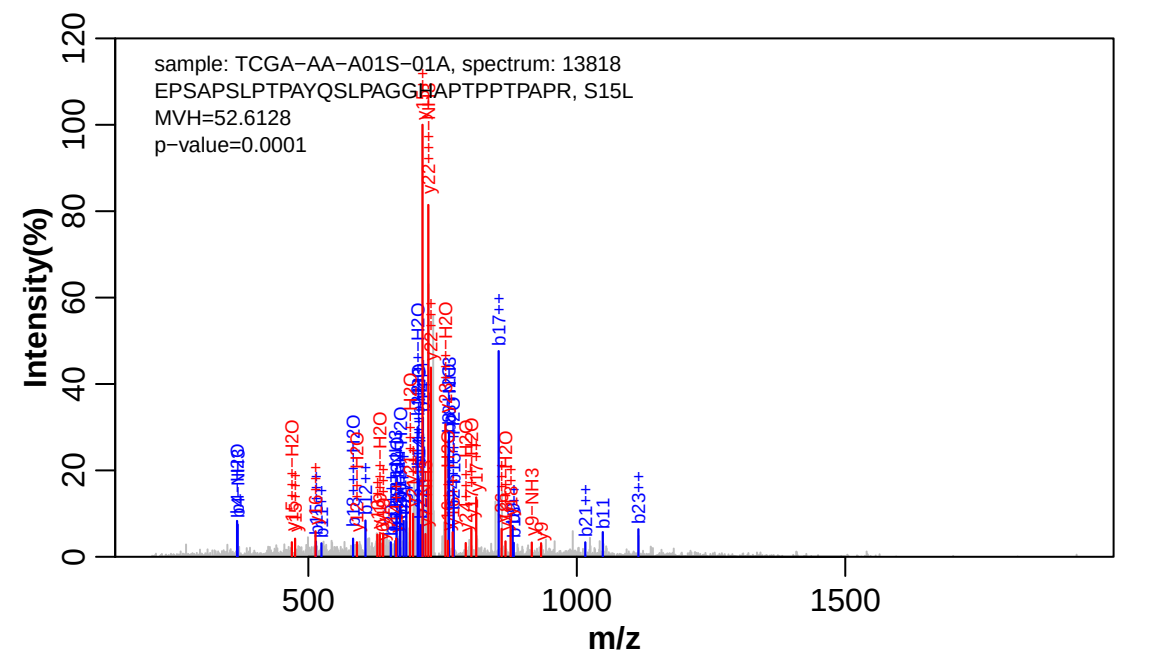

sample: TCGA−AA−A01S−01A, spectrum: 56486
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=32.3707
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b10−H2O
y6−NH3
y6

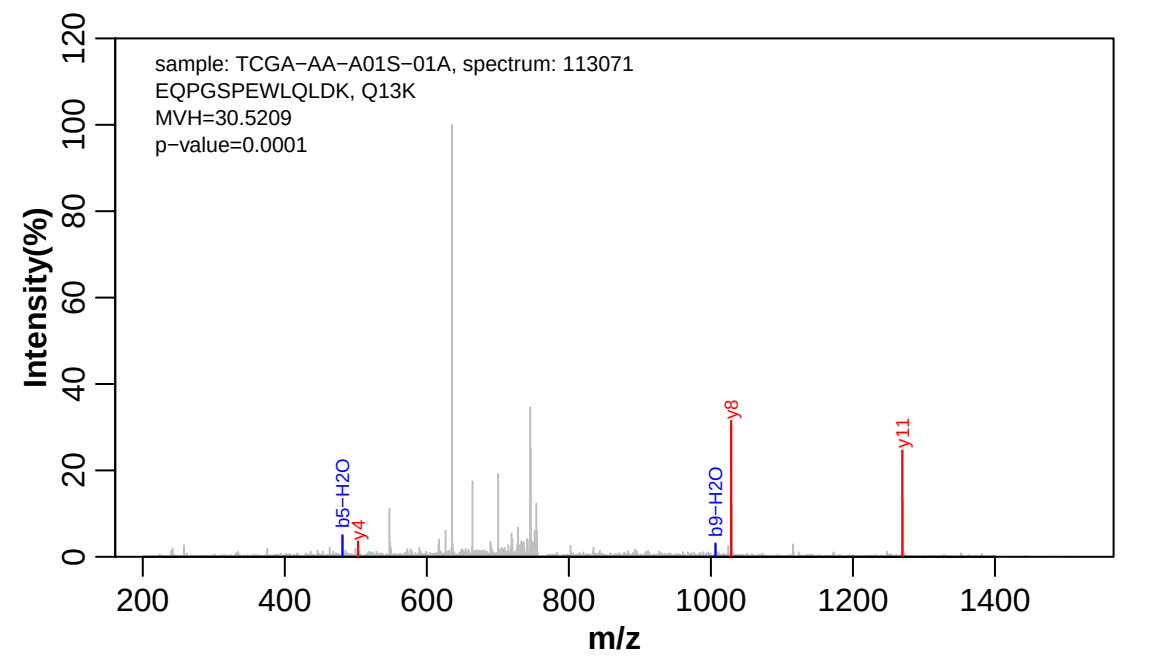

sample: TCGA−AA−A01S−01A, spectrum: 96087
DVTVLQNTDGNNNDAWAK, E14D
MVH=40.9301
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y4
b5−H2O
b5
b6
y6
b7
y7−NH3
y7
b8−NH3
b8
y8−NH3
y8
y10
b11
y11
b12
y12
y13
b15
b16
b17

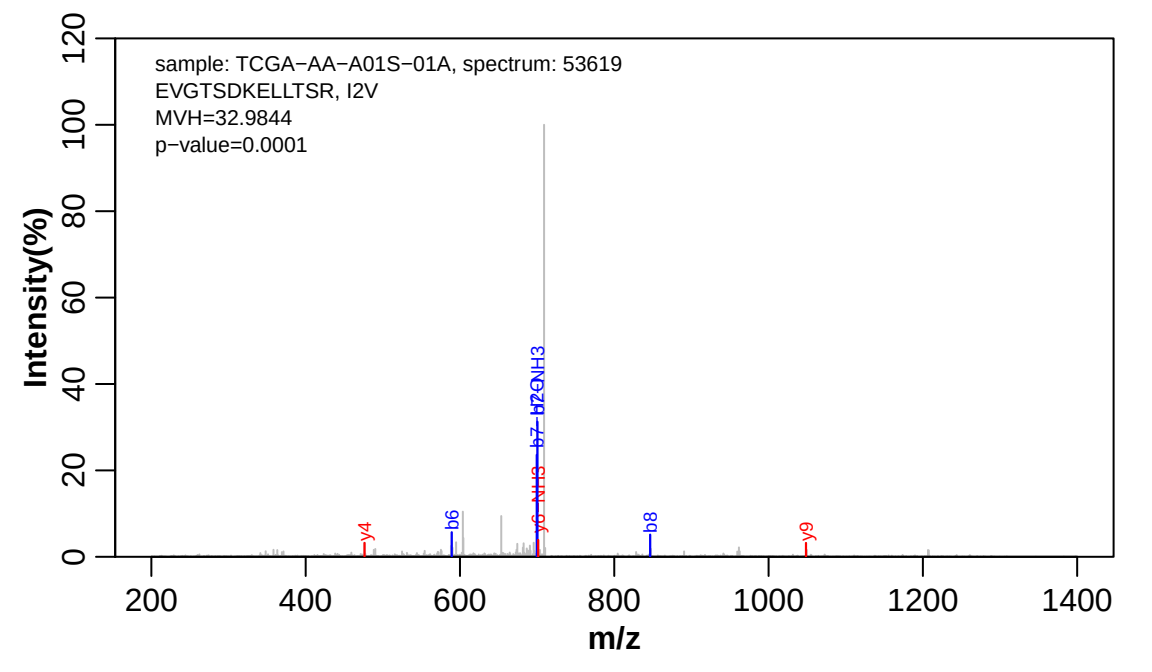

sample: TCGA−AA−A01S−01A, spectrum: 23952
EAPETDTSPSLWNVEFAK, D13N
MVH=37.3206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9−NH3
y10
y11
y12
y14
y8−H2O
y7
y6
b7−H2O
b8−H2O
b8
y4
b5−H2O

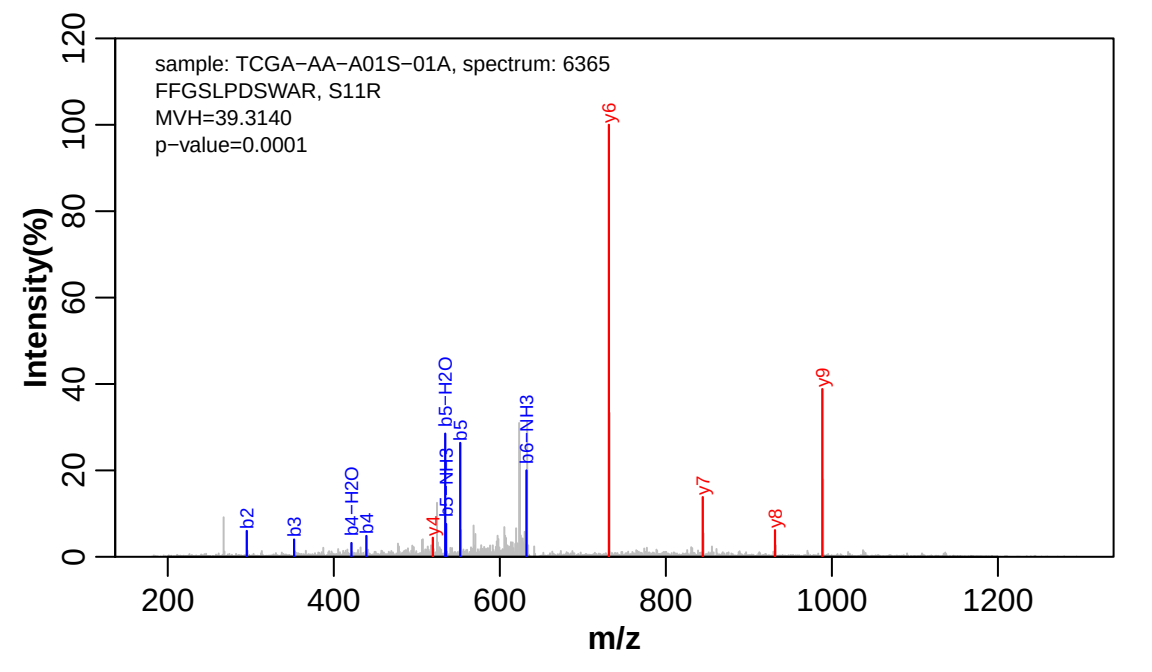

sample: TCGA−AA−A01S−01A, spectrum: 518
EASQGSSASSAPQSVK, H13Q
MVH=31.5044
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
y4−NH3
y4
b5
y5
b6−H2O
y6−H2O
b7−H2O
b7
y7
b8
y8
b9−H2O
y9−H2O
b10−NH3−H2O
b11−H2O
y10
y11
y12
b15−H2O
b15

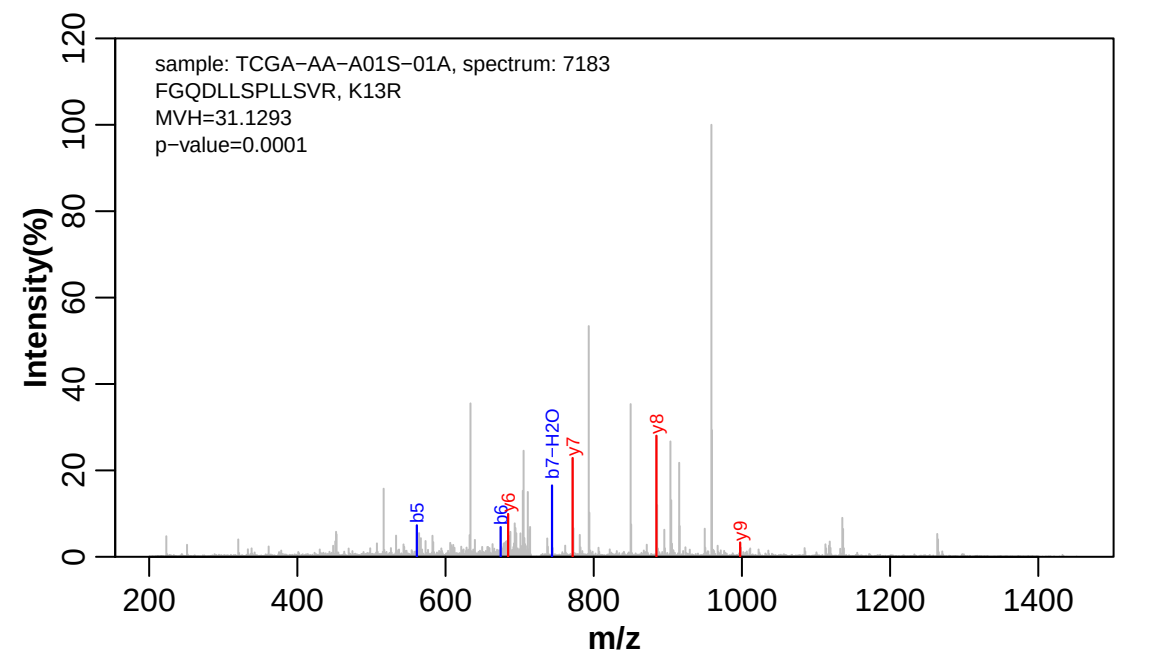

sample: TCGA−AA−A01S−01A, spectrum: 82044
EELGHLQNDLTSLENDK, M10L
MVH=36.8273
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y7++
y8++
y7
y15++
y8
b10−H2O

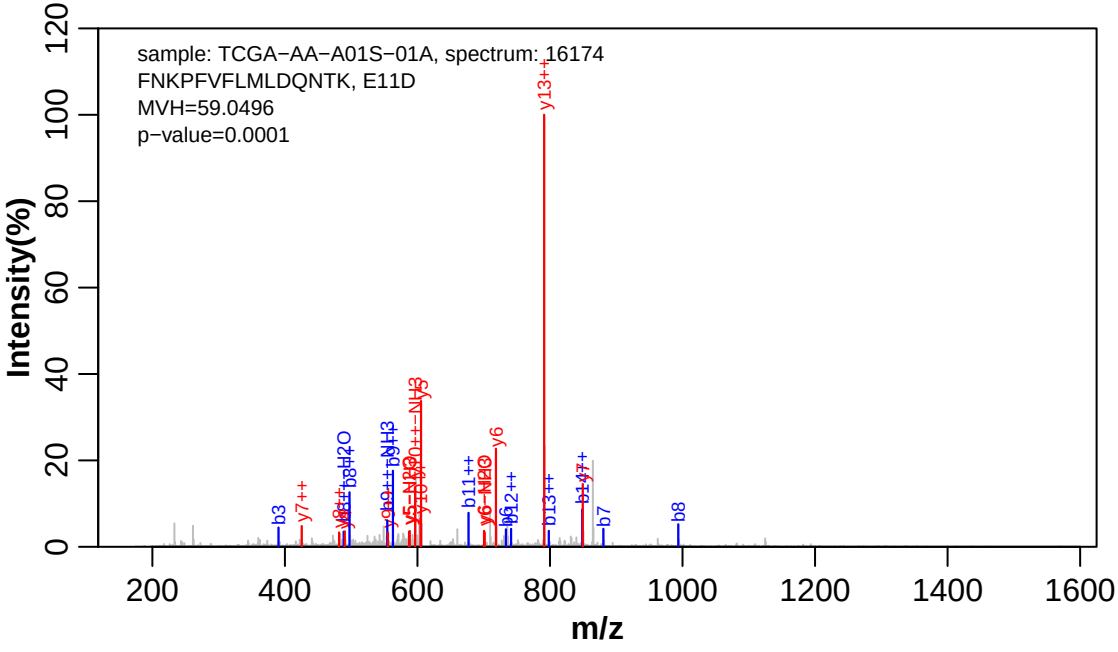

sample: TCGA−AA−A01S−01A, spectrum: 13818
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=52.6128
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b17++
b21++
b11
b23++
y9−NH3
b4−NH3
y15+++−H2O
b21+++
y22+++−NH3

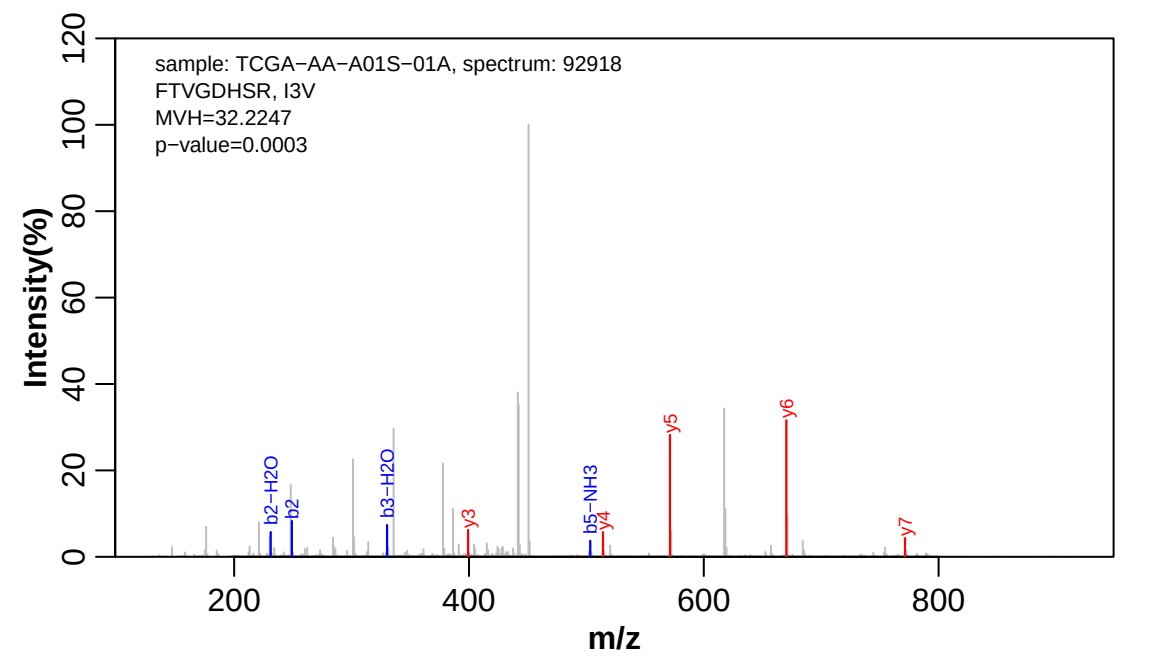

sample: TCGA−AA−A01S−01A, spectrum: 113071
EQPGSPEWLQLDK, Q13K
MVH=30.5209
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
b9−H2O
y11

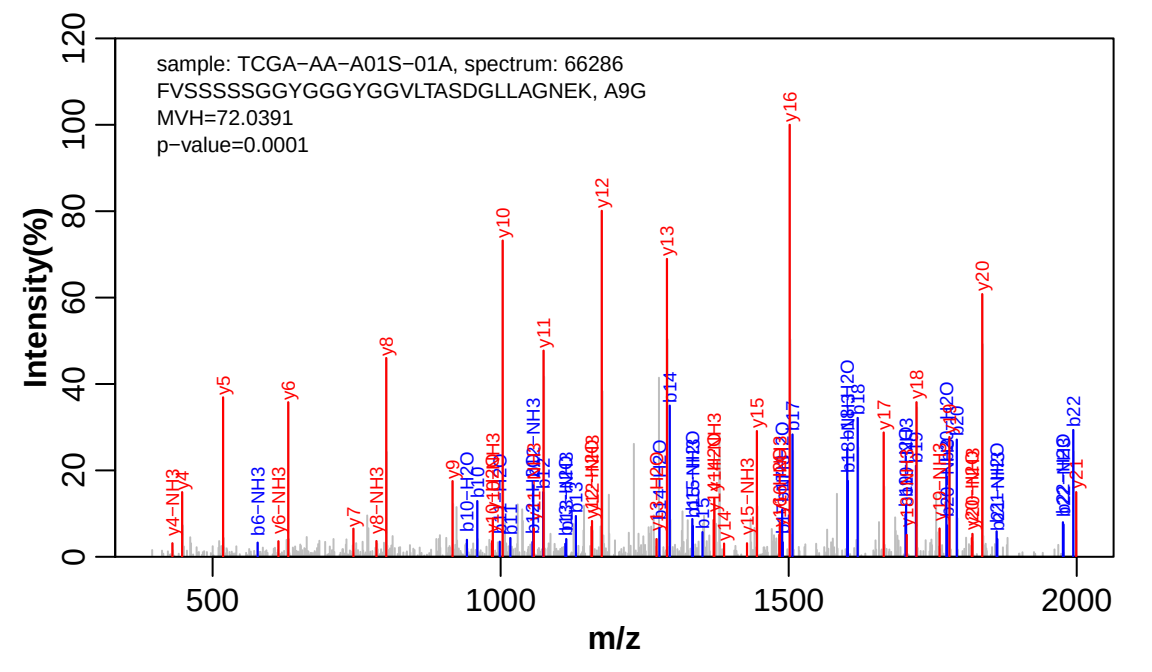

sample: TCGA−AA−A01S−01A, spectrum: 53619
EVGTSDKELLTSR, I2V
MVH=32.9844
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y4
b6
y6−NH3
b7−H2O
b7−NH3
b8
y9

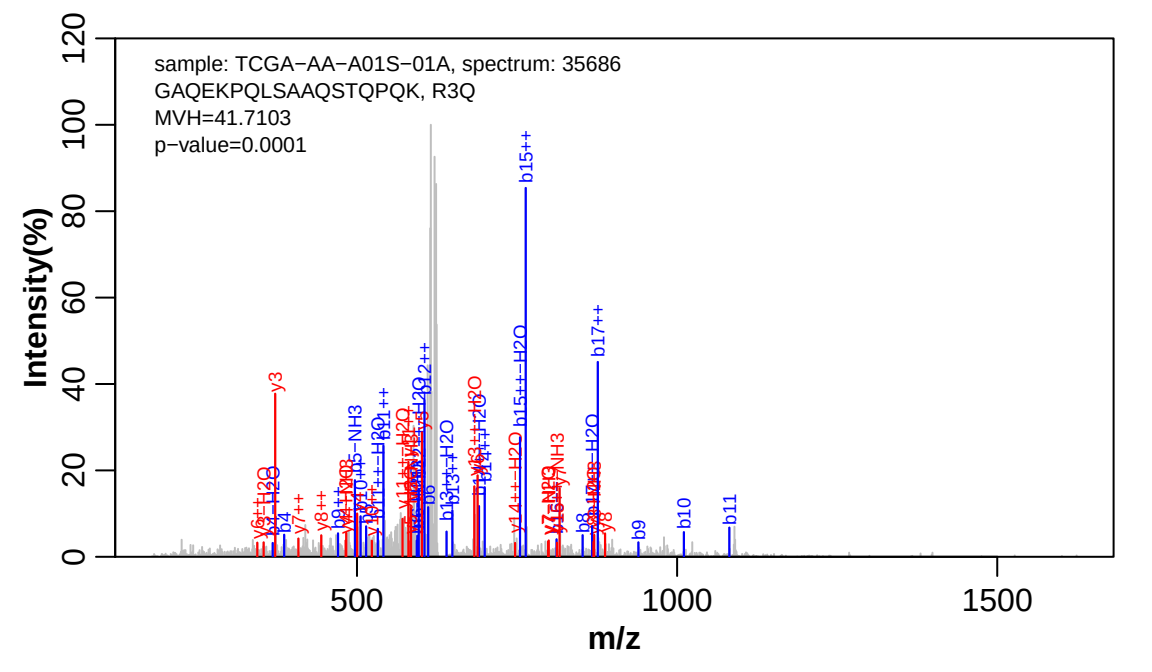

sample: TCGA−AA−A01S−01A, spectrum: 6365
FFGSLPDSWAR, S11R
MVH=39.3140
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b5−H2O
b5
b6−NH3
b4−H2O
b4
b5−NH3
y4
b2
b3

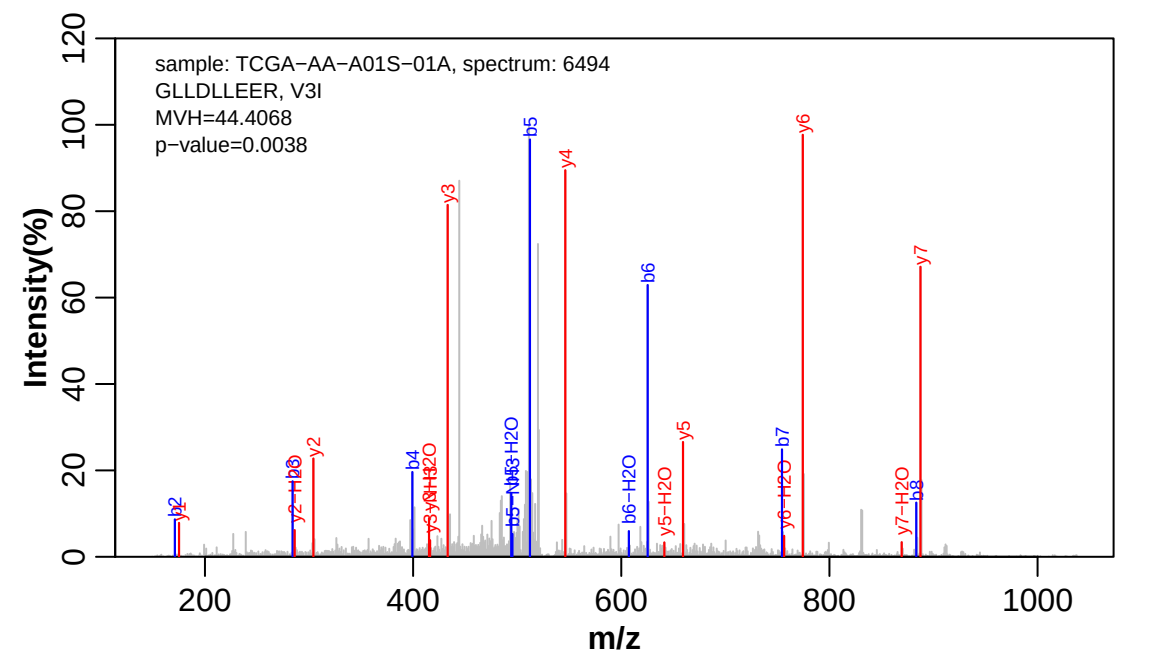

sample: TCGA−AA−A01S−01A, spectrum: 7183
FGQDLLSPLLSVR, K13R
MVH=31.1293
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5
b6
y6
b7−H2O
y7
y8
y9

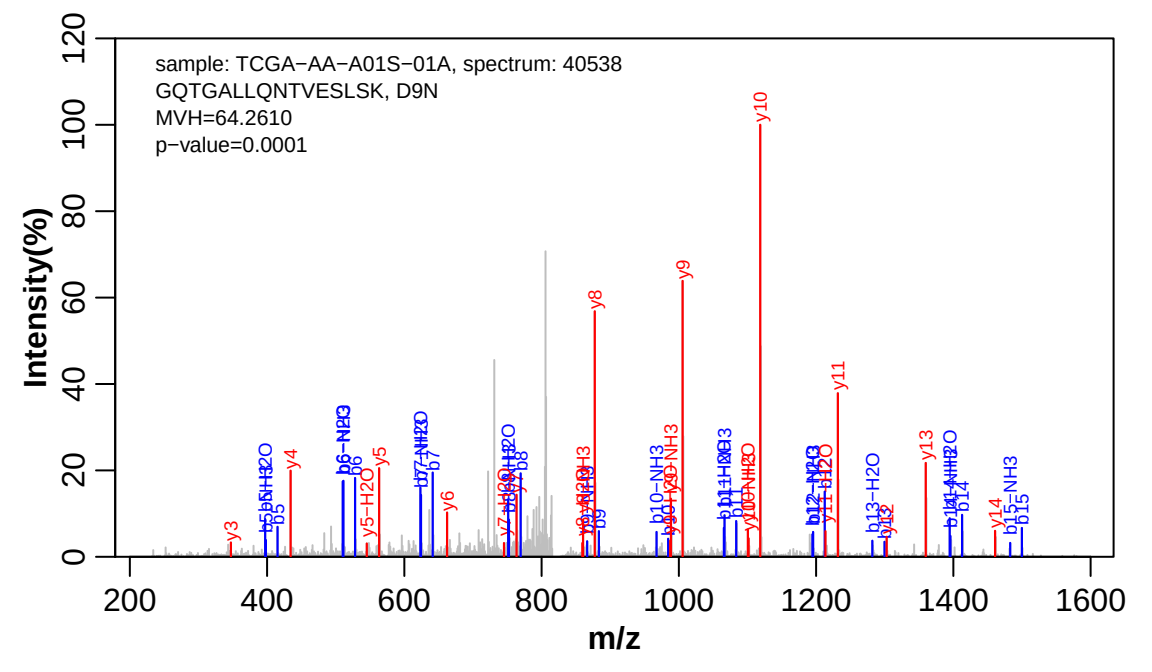

sample: TCGA−AA−A01S−01A, spectrum: 16174
FNKPFVFLMLDQNTK, E11D
MVH=59.0496
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
b3
y7++
b8−H2O
b8
y9++−NH3
y9++
y5−NH3
y5
y6
b11++
y6−NH3
b12++
b13++
b14++
b7
b8

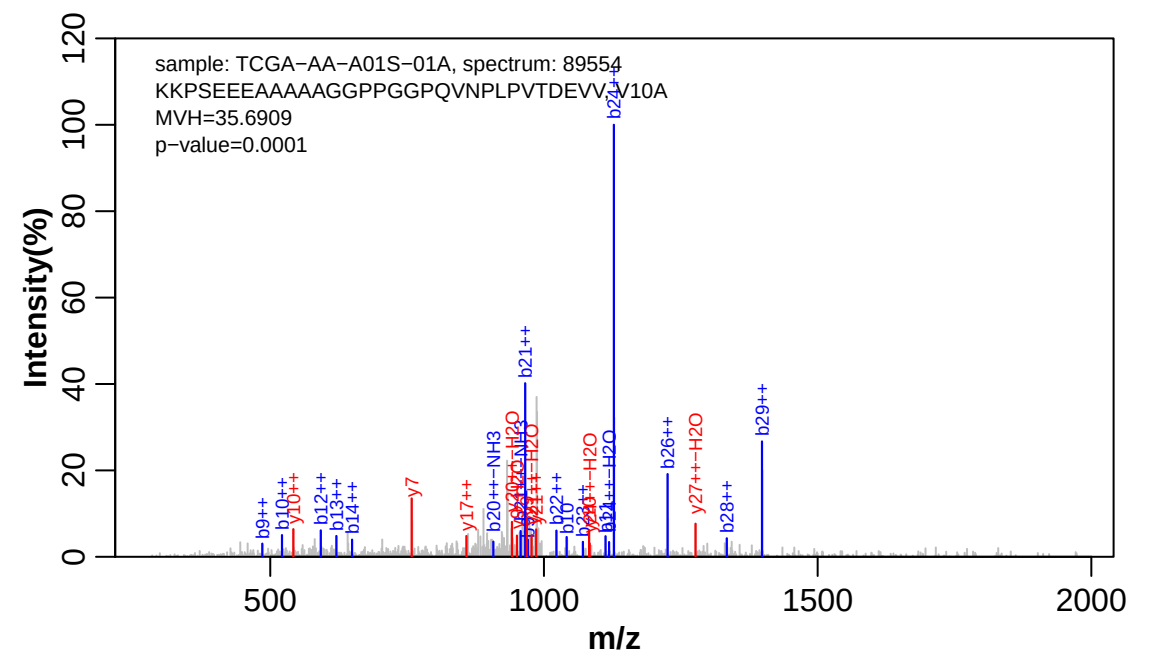

sample: TCGA−AA−A01S−01A, spectrum: 92918
FTVGDHSR, I3V
MVH=32.2247
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
b5−NH3
y4
y5
y6
y7

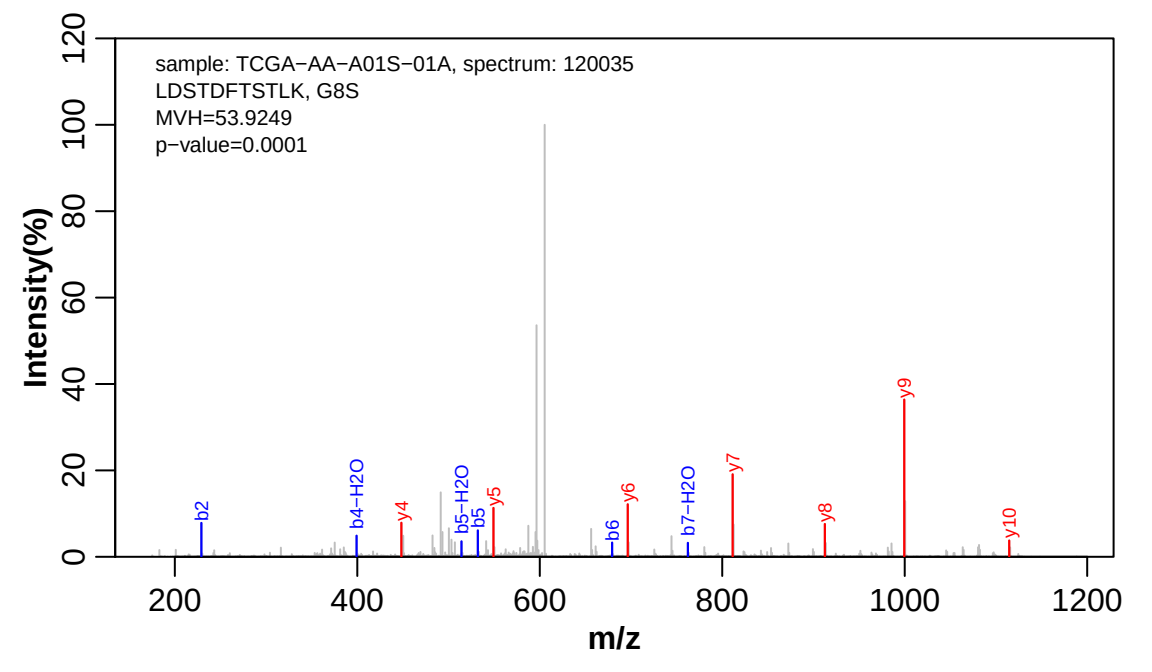

sample: TCGA−AA−A01S−01A, spectrum: 66286
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=72.0391
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y16
y12
y10
y13
y11
y8
y5
y6
y20
y15
y18
y17
y14
y9
y7
b17
b14
b18
b13
b12
b10
b11
b9
b8
b7
b6
b5
b4
b3
b2
b21
b22
y4
v4−NH3
b6−NH3
y6−NH3
y7
y8−NH3
y9
b10−H2O
y10−NH3
y11−NH3
y15−NH3
y17−H2O
b18−H2O
b18−NH3
y18
y20−NH3
b21−NH3
b22−NH3
y21
b22
y21−NH3

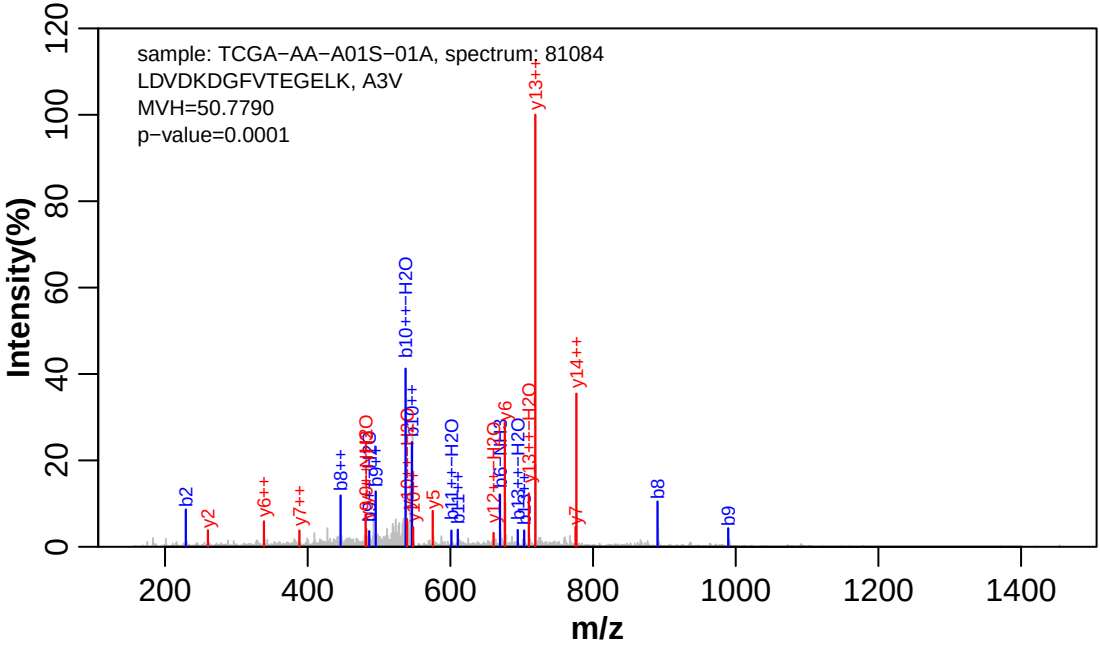

sample: TCGA−AA−A01S−01A, spectrum: 35686
GAQEKPQLSAAQSTQPQK, R3Q
MVH=41.7103
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
y3
b17++
b10
b11
b9
b8
y8
y7
b4
y7++
y8++
b13++−H2O
b15++−H2O
b15++
y14++−H2O
b12++
b14++−H2O
b14++
y13++−H2O
y13++
b13++
y11++−H2O
y11++
b11++
y10++−H2O
y10++
b10++
y9++−H2O
y9++
b9++
y8++−H2O
y8++
b8++
y7++−H2O
y7++
b7++
y6++−H2O
y6++
b6++
y5++−H2O
y5++
b5++
y4++−H2O
y4++
b4++
y3++−H2O
y3++
b3++
y2++−H2O
y2++
b2++
y1++−H2O
y1++
b1++
y14++−NH3
y13++−NH3
y12++−NH3
y11++−NH3
y10++−NH3
y9++−NH3
y8++−NH3
y7++−NH3
y6++−NH3
y5++−NH3
y4++−NH3
y3++−NH3
y2++−NH3
y1++−NH3
b14++−NH3
b13++−NH3
b12++−NH3
b11++−NH3
b10++−NH3
b9++−NH3
b8++−NH3
b7++−NH3
b6++−NH3
b5++−NH3
b4++−NH3
b3++−NH3
b2++−NH3
b1++−NH3

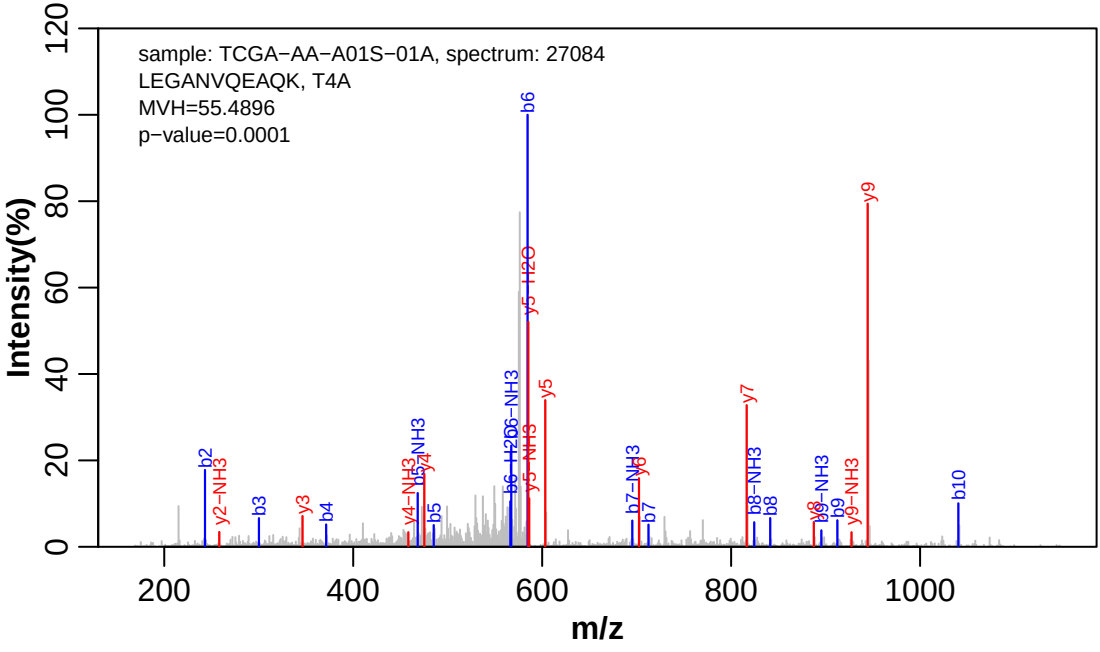

sample: TCGA−AA−A01S−01A, spectrum: 6494
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
y6
b6
y7
y2
b4
y5
b7
b8
b2
y2−H2O
b4−H2O
b5−H2O
b6−H2O
y5−H2O
y6−H2O
y7−H2O

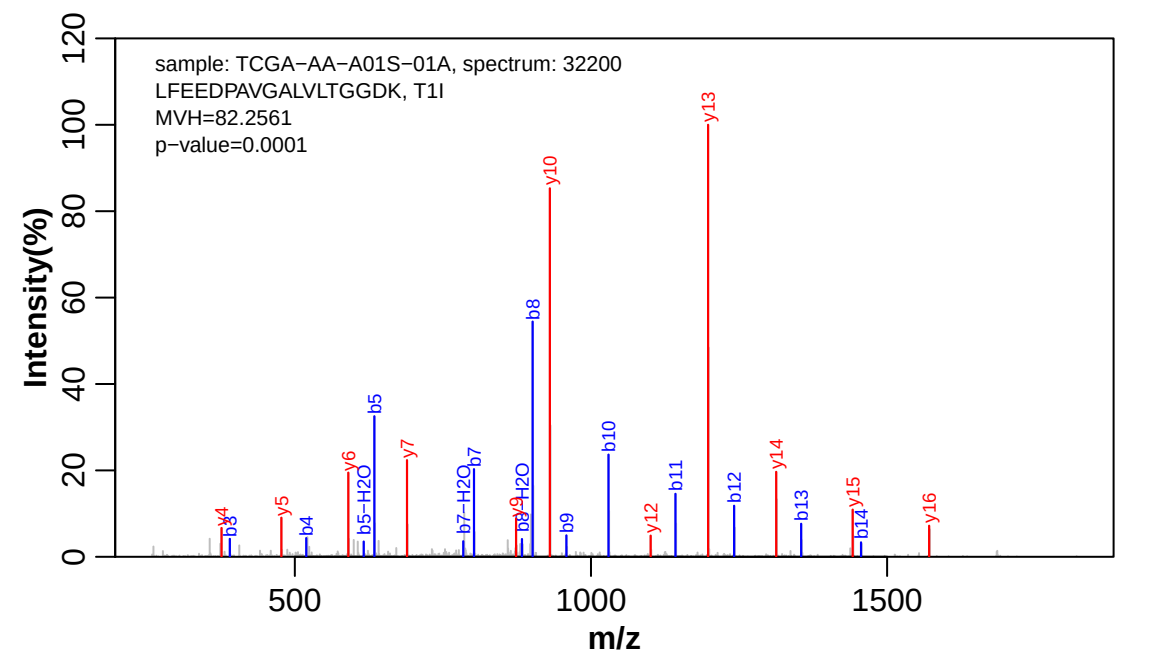

sample: TCGA−AA−A01S−01A, spectrum: 40538
GQTGALLQNTVESLSK, D9N
MVH=64.2610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y4
y5
y6
y3
y14
b15
b15−NH3
b13−H2O
b10−NH3
b5−H2O
b5−NH3
b6−NH3
y5−H2O

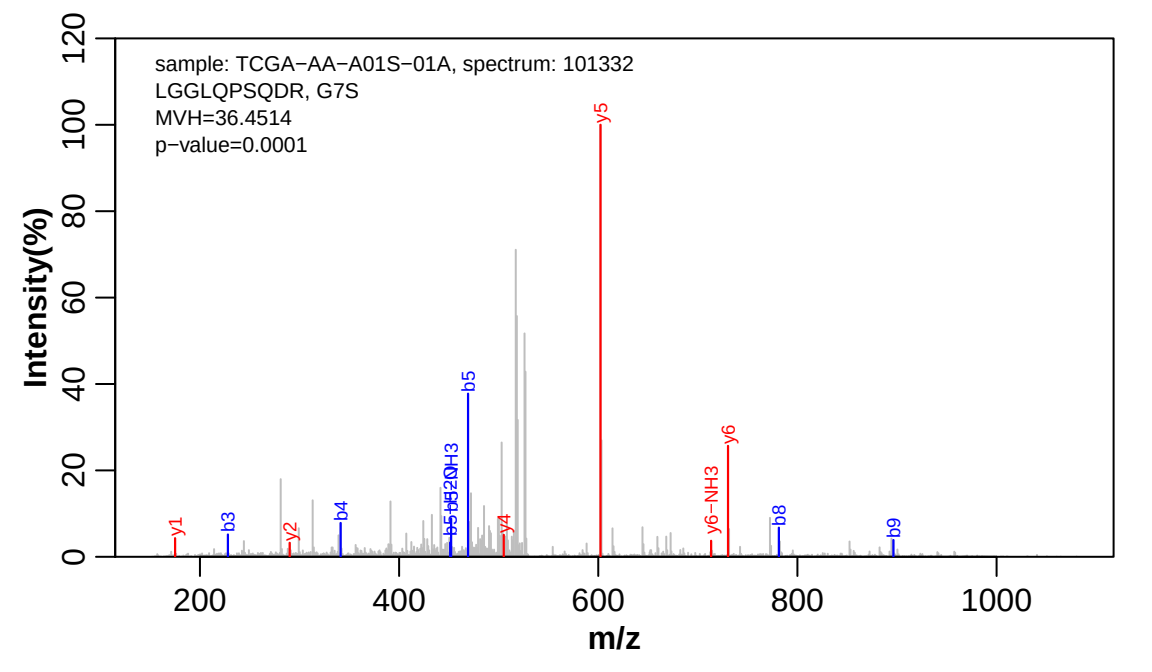

sample: TCGA−AA−A01S−01A, spectrum: 89554
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=35.6909
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++
b10++
y10++
b12++
b13++
b14++
y7
y17++
b20++−NH3
b21++
b22++
b26++
y27++−H2O
b28++
b29++

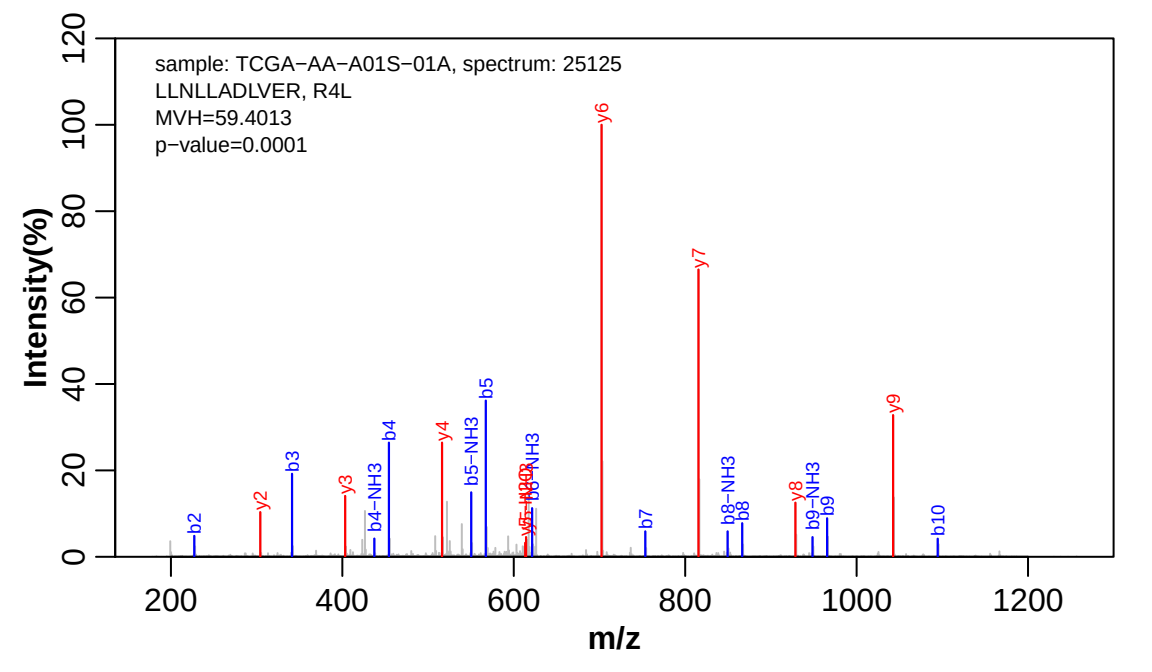

sample: TCGA−AA−A01S−01A, spectrum: 120035
LDSTDFTSTLK, G8S
MVH=53.9249
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
y7
y8
y9
y10

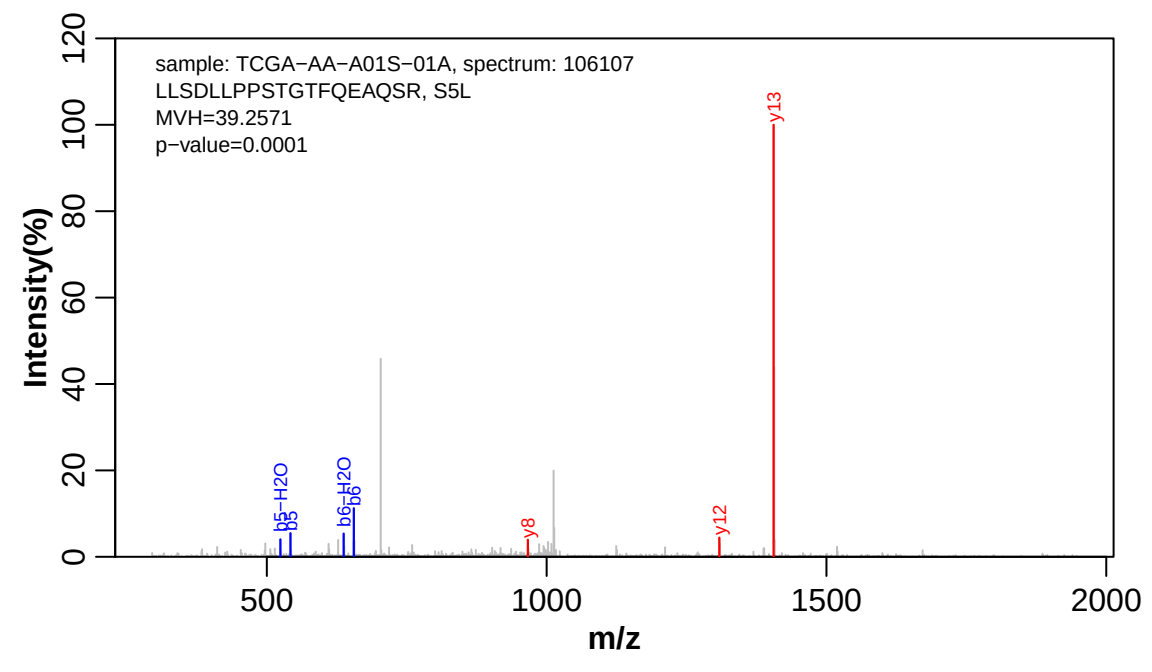

sample: TCGA−AA−A01S−01A, spectrum: 81084
LDVDKDGFVTEGELK, A3V
MVH=50.7790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
b10++−H2O
y14++
b2
y2
y6++
y7++
b8++
y5
b11++−H2O
y12++−H2O
y6
b8
y7
b9

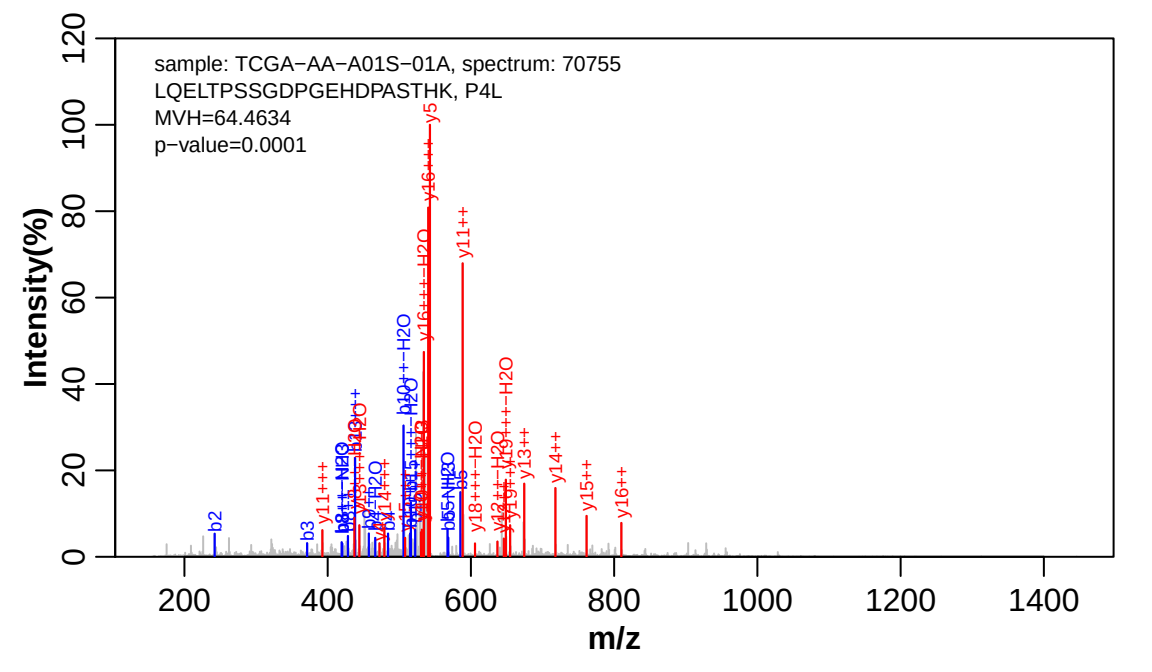

sample: TCGA−AA−A01S−01A, spectrum: 27084
LEGANVQEAQK, T4A
MVH=55.4896
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2−NH3
b3
y3
b4
y4−NH3
y4
b5
b6−NH3
b6
b6−H2O
y5−NH3
y5−H2O
y5
b7−NH3
b7
y6
y7
b8−NH3
b8
y8−NH3
b9
y9−NH3
y9
b10

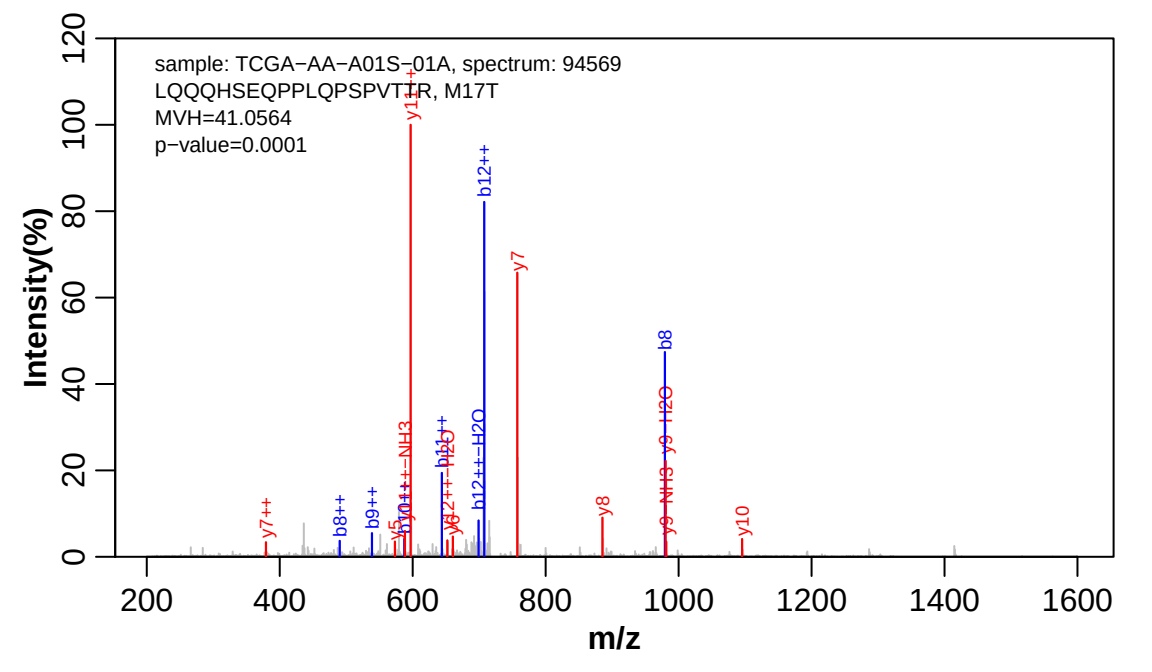

sample: TCGA−AA−A01S−01A, spectrum: 32200
LFEEDPAVGALVLTGGDK, T1I
MVH=82.2561
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y7
y6
b5−H2O
b7
b7−H2O
y5
y4
b3
b4
b9
b9−H2O
b10
y12
b11
b12
y14
b13
y15
b14
y16
b9

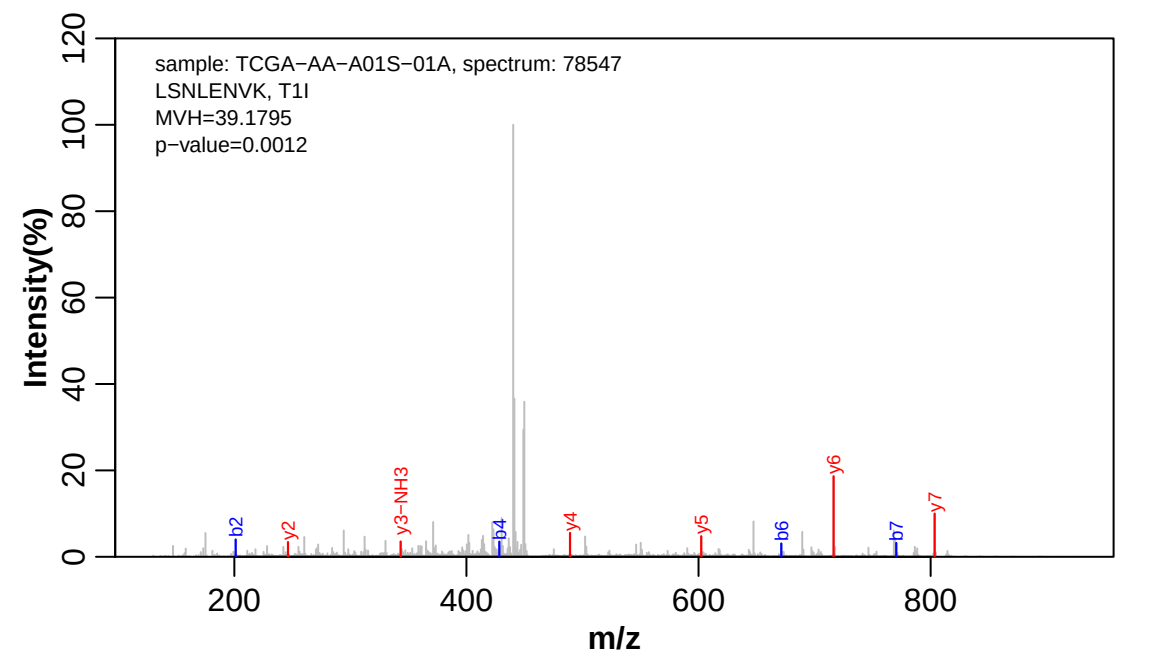

sample: TCGA−AA−A01S−01A, spectrum: 101332
LGGLQPSQDR, G7S
MVH=36.4514
p−value=0.0001
Intensity(%)
m/z
y1
b3
y2
b4
b5
y4
y5
y6−NH3
y6
b8
b9

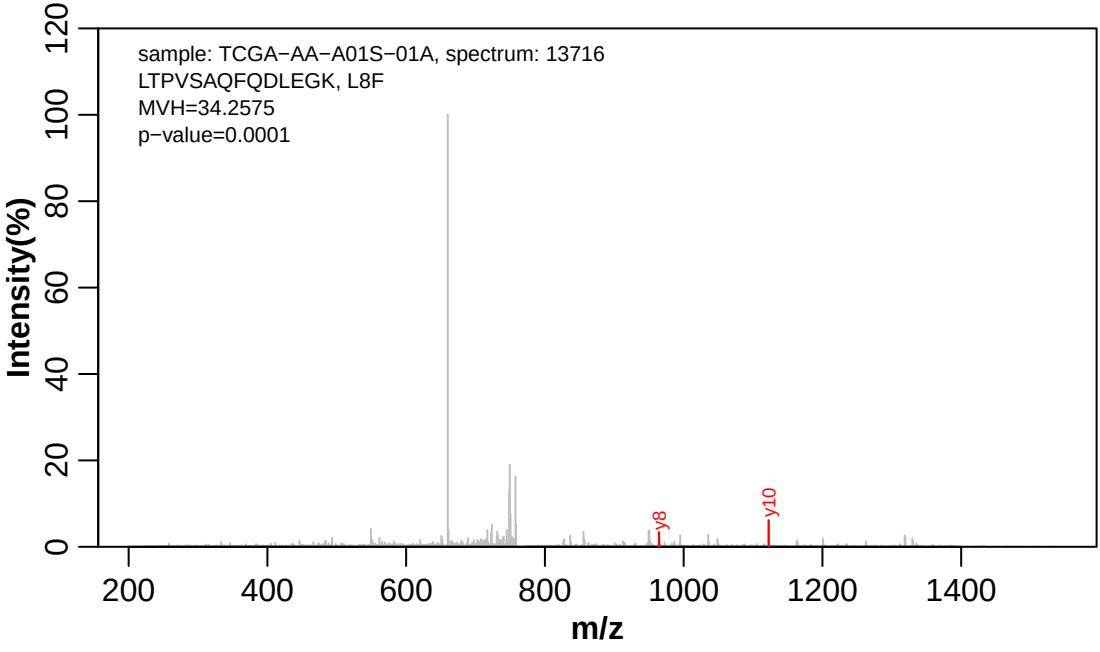

sample: TCGA−AA−A01S−01A, spectrum: 25125
LLNLLADLVER, R4L
MVH=59.4013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
y5
b6−NH3
b6
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

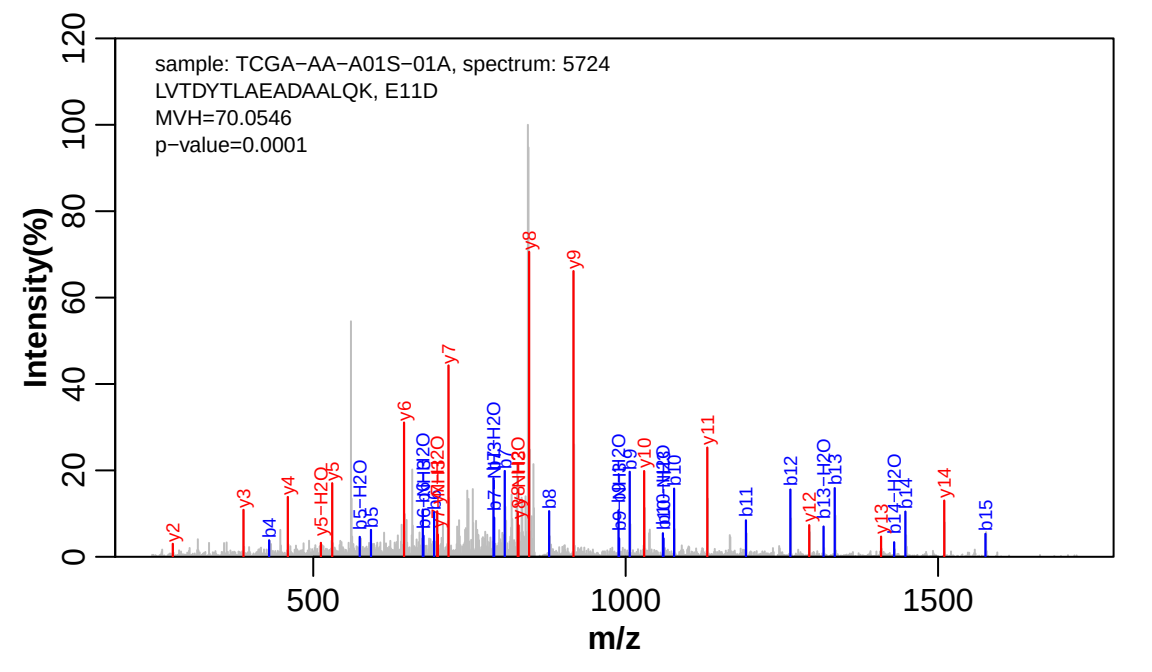

sample: TCGA−AA−A01S−01A, spectrum: 106107
LLSDLLPPSTGTFQEAQSR, S5L
MVH=39.2571
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y13
y12
y8
b6−H2O
b6
b5−H2O
b5

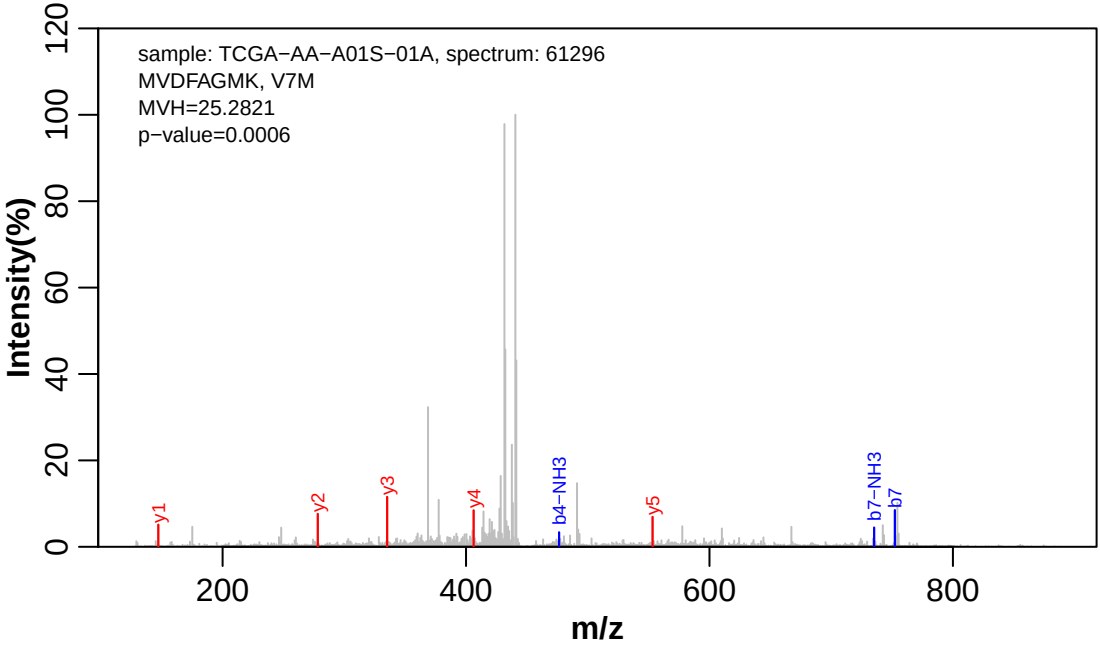

sample: TCGA−AA−A01S−01A, spectrum: 70755
LQELTPSSGDPGEHDPASTHK, P4L
MVH=64.4634
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y11+++
y11++
y5
y16+++
y16+++−H2O
b10++−H2O
y18+++−H2O
y13++
y14++
y15++
y16++

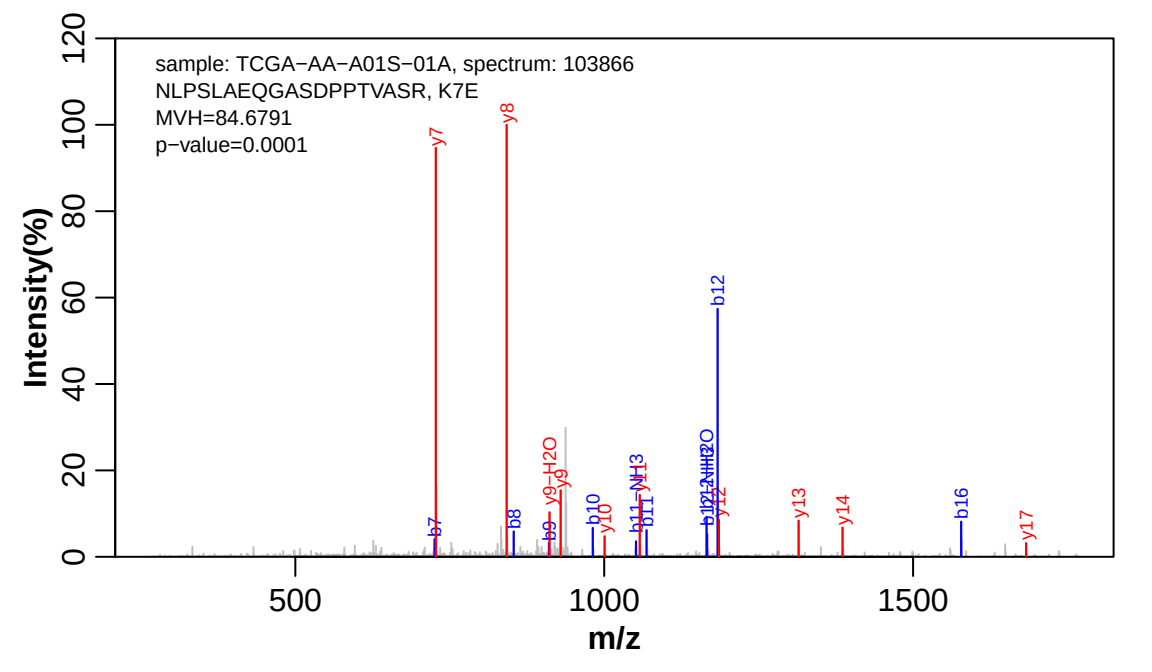

sample: TCGA−AA−A01S−01A, spectrum: 94569
LQQQHSEQPPLQPSPVTTR, M17T
MVH=41.0564
p−value=0.0001
Intensity(%)
m/z
y11++
b12++
y7
b8
y8
y10
y7++
b8++
b9++
y5
b10++−NH3
y6++−H2O
b11++
b12++−H2O
y9−NH3
y9−H2O

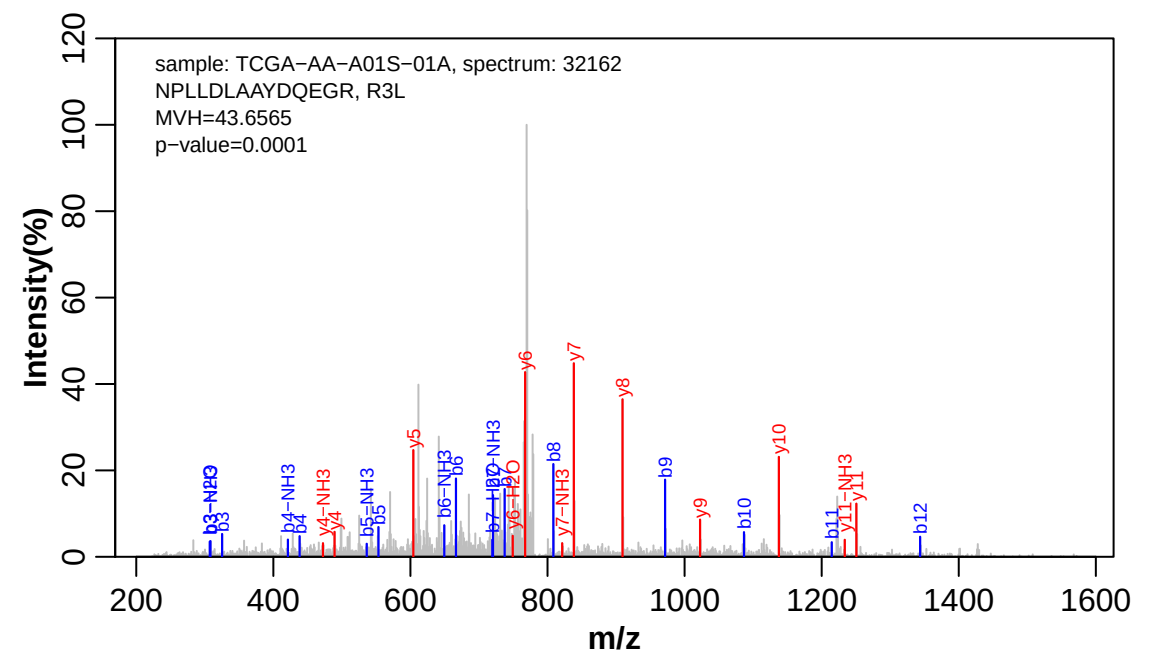

sample: TCGA−AA−A01S−01A, spectrum: 78547
LSNLENVK, T1I
MVH=39.1795
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
y3−NH3
b4
y4
y5
b6
y6
b7
y7

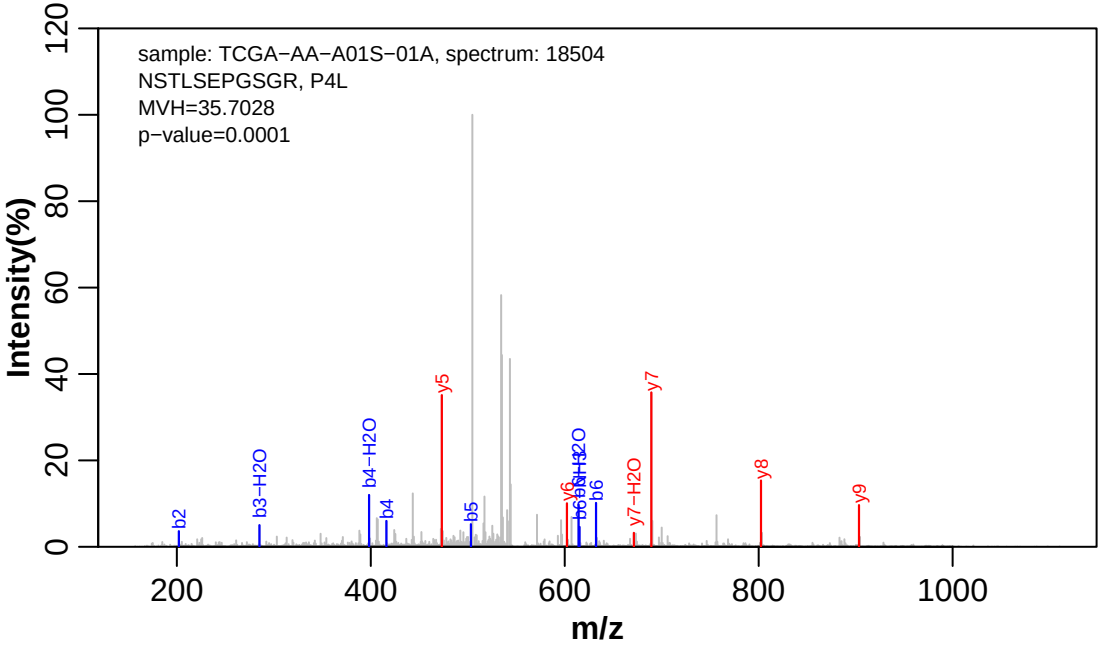

sample: TCGA−AA−A01S−01A, spectrum: 13716
LTPVSAQFQDLEGK, L8F
MVH=34.2575
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y8
y10

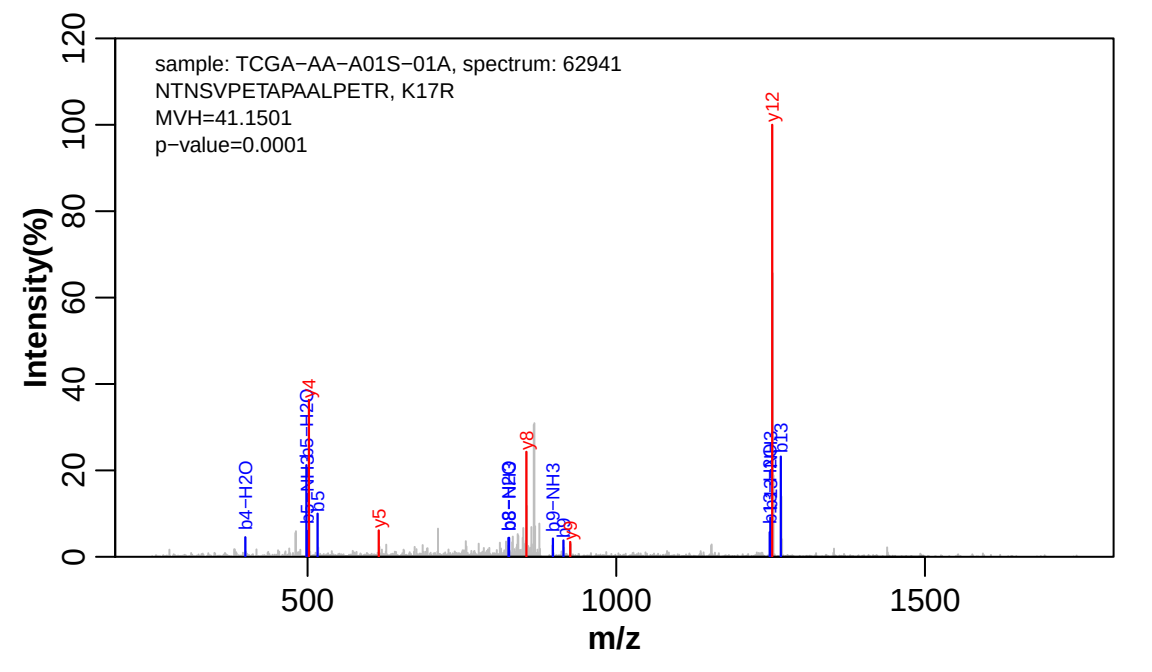

sample: TCGA−AA−A01S−01A, spectrum: 5724
LVTDYTLAEADAALQK, E11D
MVH=70.0546
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4
y4
y5−H2O
y5
b5−H2O
b5
y6
y7
y8
y9
b7−NH3−H2O
b8
y10
y11
b11
b12
y12
b13−H2O
b13
y13
b14
b14−H2O
y14
b15

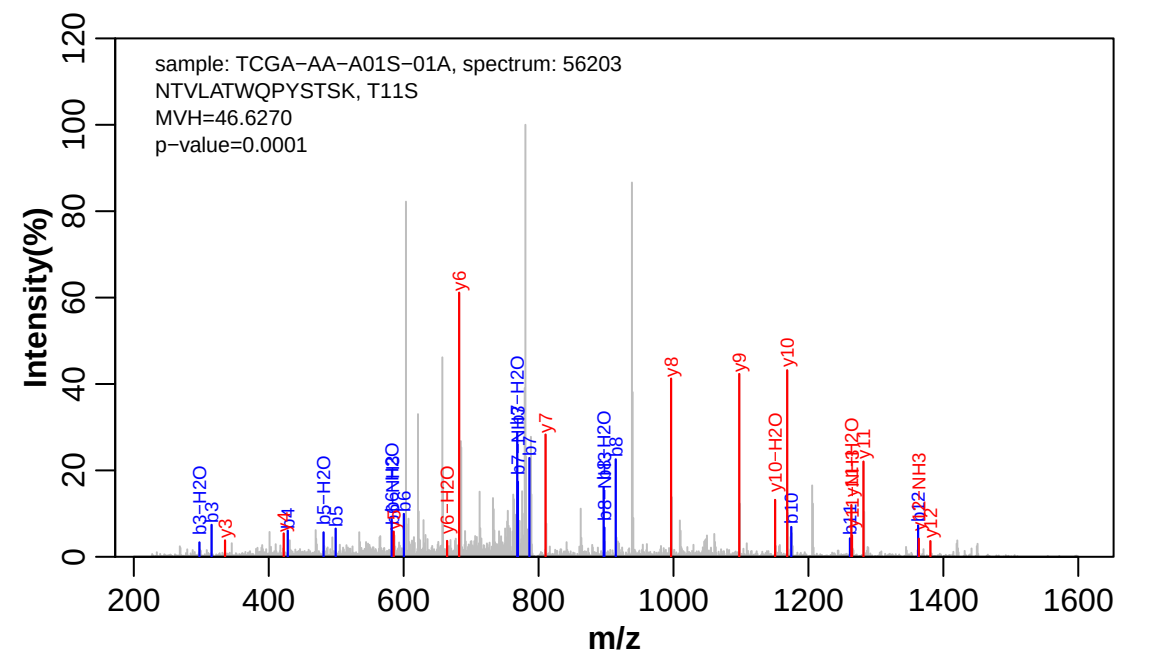

sample: TCGA−AA−A01S−01A, spectrum: 61296
MVDFAGMK, V7M
MVH=25.2821
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
y3
y4
b4−NH3
y5
b7−NH3
b7

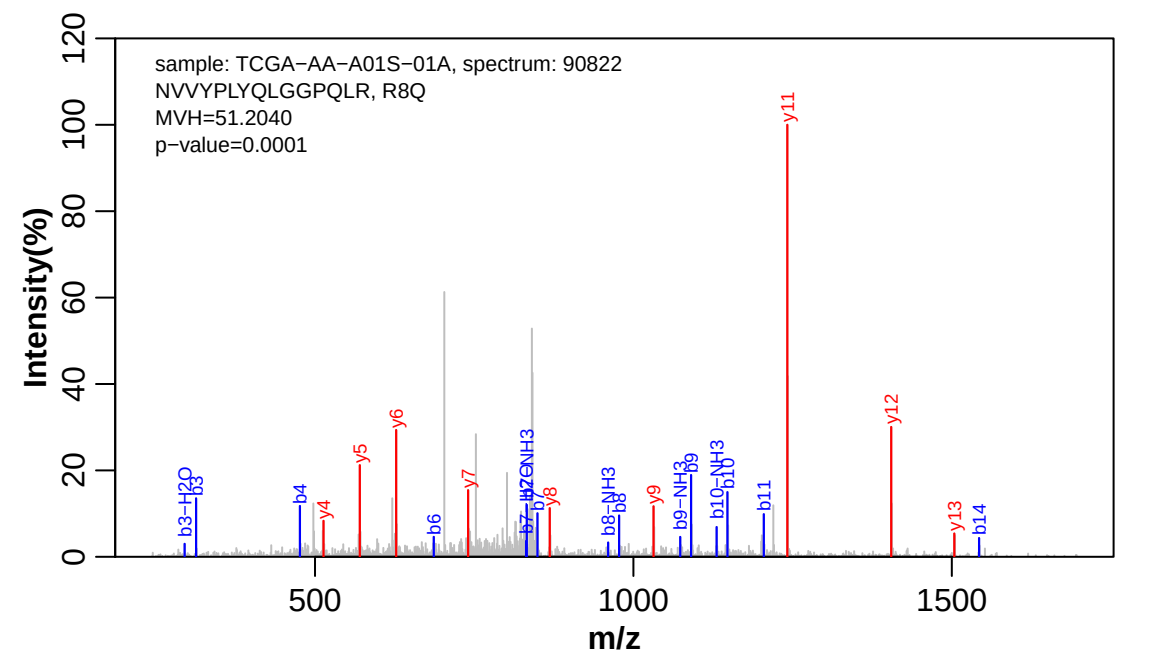

sample: TCGA−AA−A01S−01A, spectrum: 103866
NLPSLAEQGASDPPTVASR, K7E
MVH=84.6791
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y8
b7
b8
b9
y9−H2O
y9
b10
y10
b11−NH3
b11
b12
y12
y13
y14
b16
y17

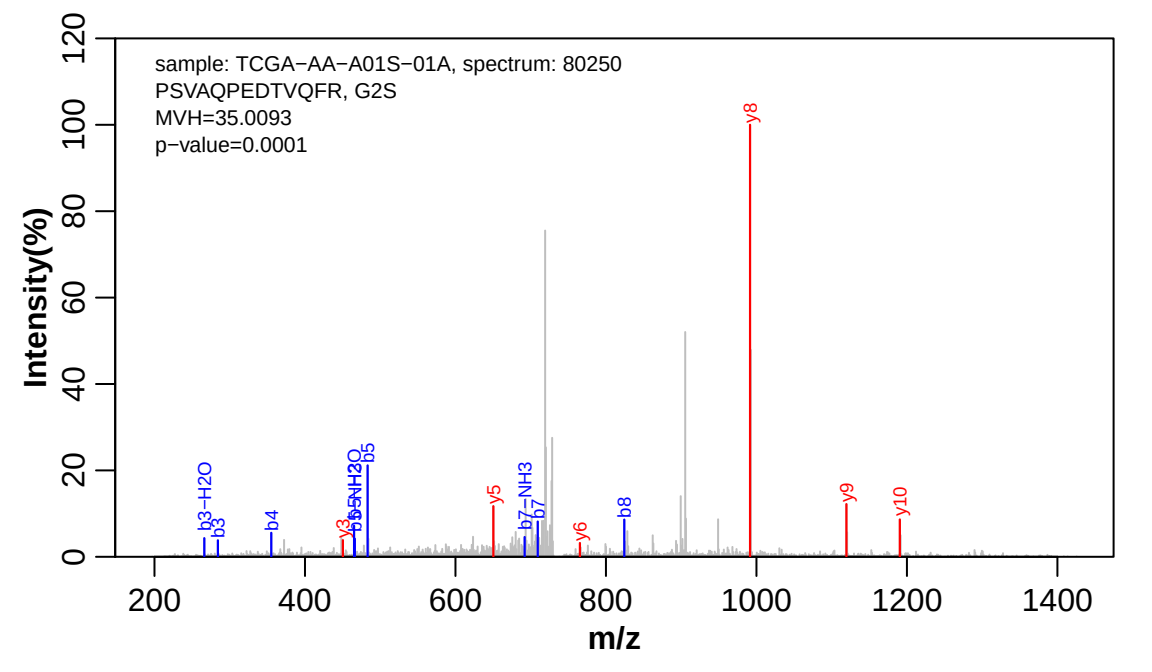

sample: TCGA−AA−A01S−01A, spectrum: 32162
NPLLDLAAYDQEGR, R3L
MVH=43.6565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−NH3
b3
b4−NH3
b4
y4−NH3
y4
b5−NH3
b5
y5
b6−NH3
b6
b7−H2O−NH3
b7−H2O
y6−H2O
y6
b8
y7−NH3
y7
y8
b9
y9
b10
y10
b11
y11−NH3
y11
b12

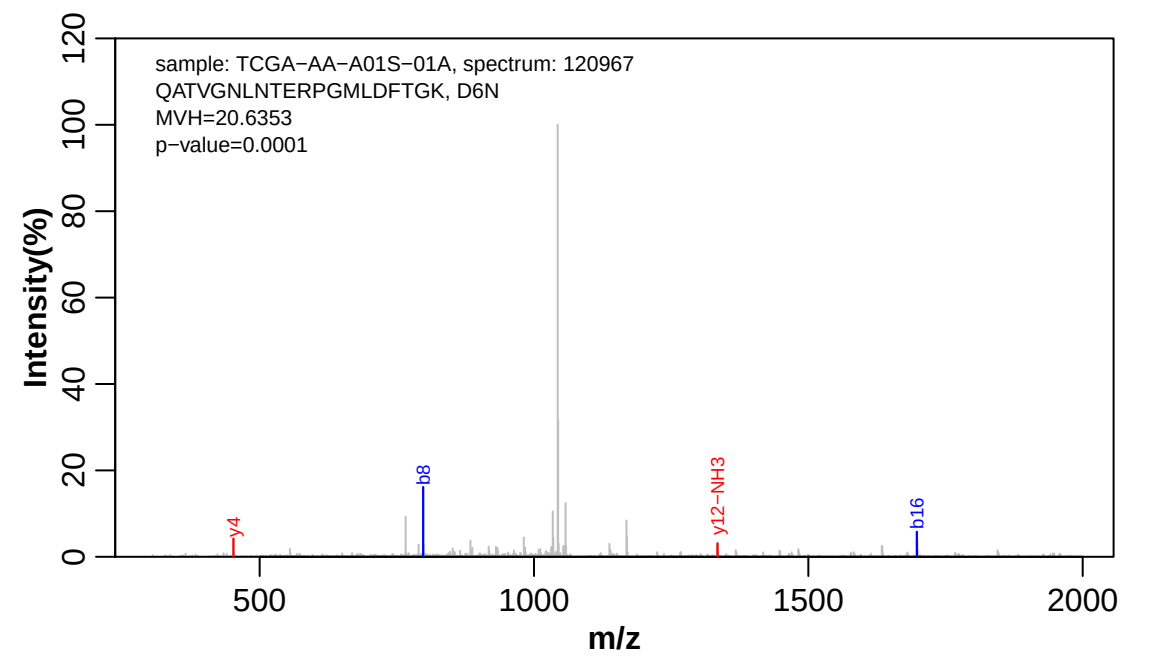

sample: TCGA−AA−A01S−01A, spectrum: 18504
NSTLSEPGSGR, P4L
MVH=35.7028
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
b4−H2O
b4
b5
y5
y6
b6
y7−H2O
y7
y8
y9

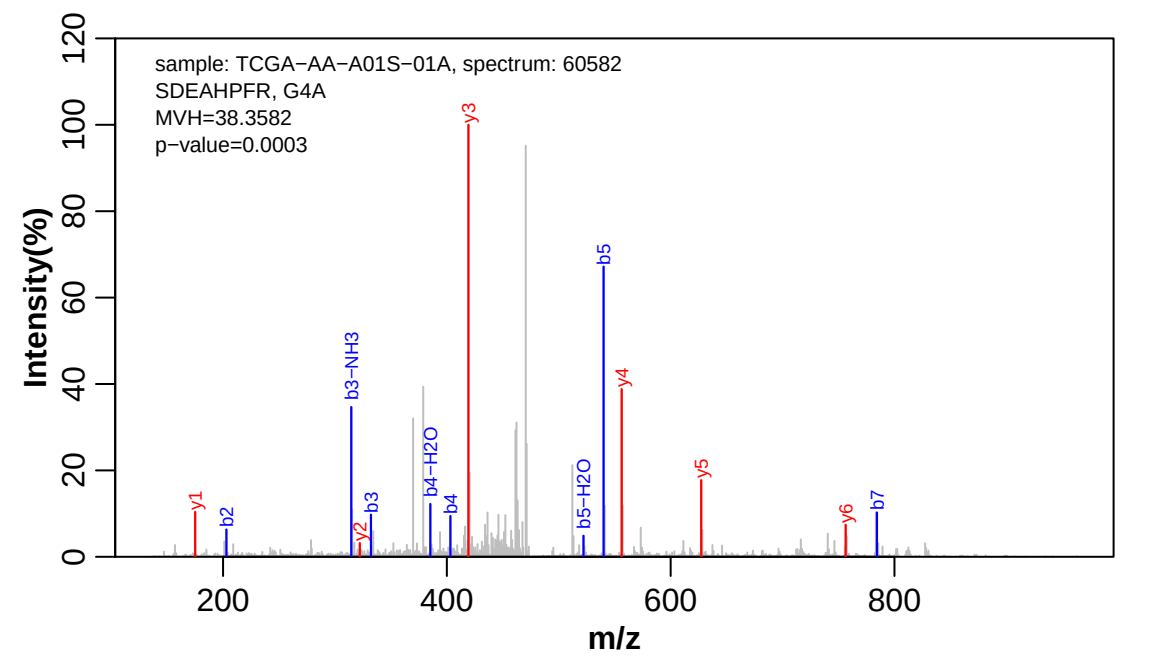

sample: TCGA−AA−A01S−01A, spectrum: 62941
NTNSVPETAPAALPETR, K17R
MVH=41.1501
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y4
b4−H2O
b5
y5
b9−NH3
y9
b13

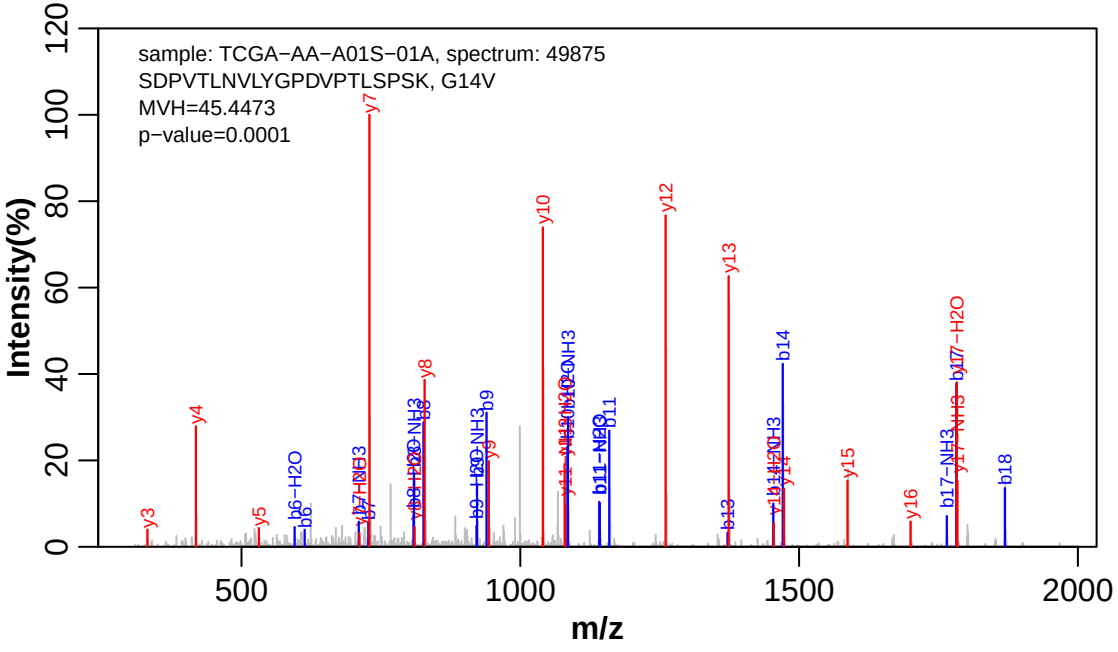

sample: TCGA−AA−A01S−01A, spectrum: 56203
NTVLATWQPYSTSK, T11S
MVH=46.6270
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y3
y4
b5−H2O
b5
b6
y6−H2O
y6
b7−NH3−H2O
b7
y7
b8−NH3−H2O
b8
y8
y9
y10
y10−H2O
b10
y11
y12−NH3
y12

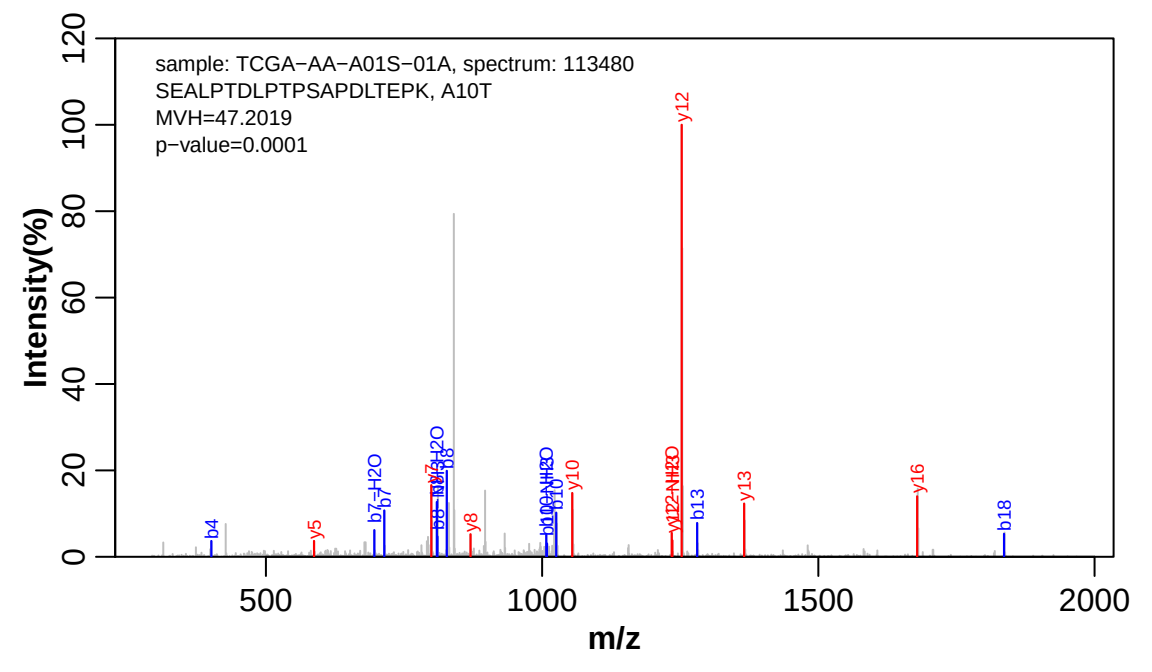

sample: TCGA−AA−A01S−01A, spectrum: 90822
NVVYPLYQLGGPQLR, R8Q
MVH=51.2040
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b3
b4
y4
y5
y6
b6
y7
b7−H2O
b7−NH3
b7
y8
b8−NH3
b8
y9
b9−NH3
b9
b10−NH3
b10
b11
y11
y12
y13
b14

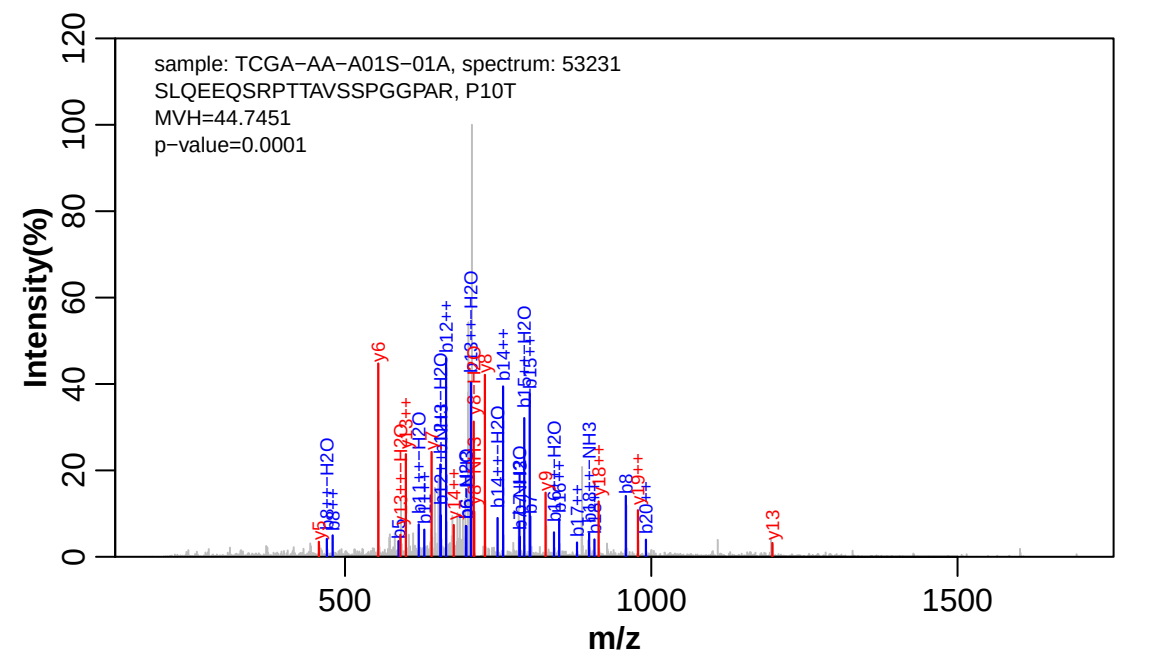

sample: TCGA−AA−A01S−01A, spectrum: 80250
PSVAQPEDTVQFR, G2S
MVH=35.0093
p−value=0.0001
Intensity(%)
m/z
y8
y5
y9
y10
y6
b8
b7−NH3
b7
b5
b4
b3−H2O
b3

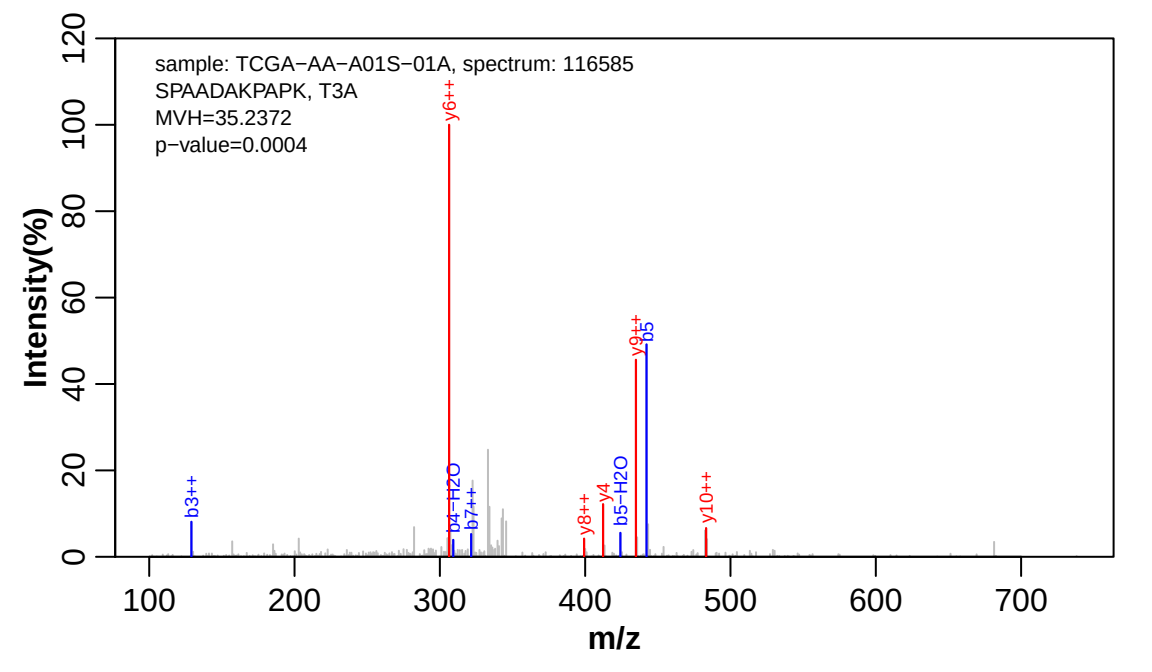

sample: TCGA−AA−A01S−01A, spectrum: 120967
QATVGNLNTERPGMLDFTGK, D6N
MVH=20.6353
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b8
y12−NH3
b16

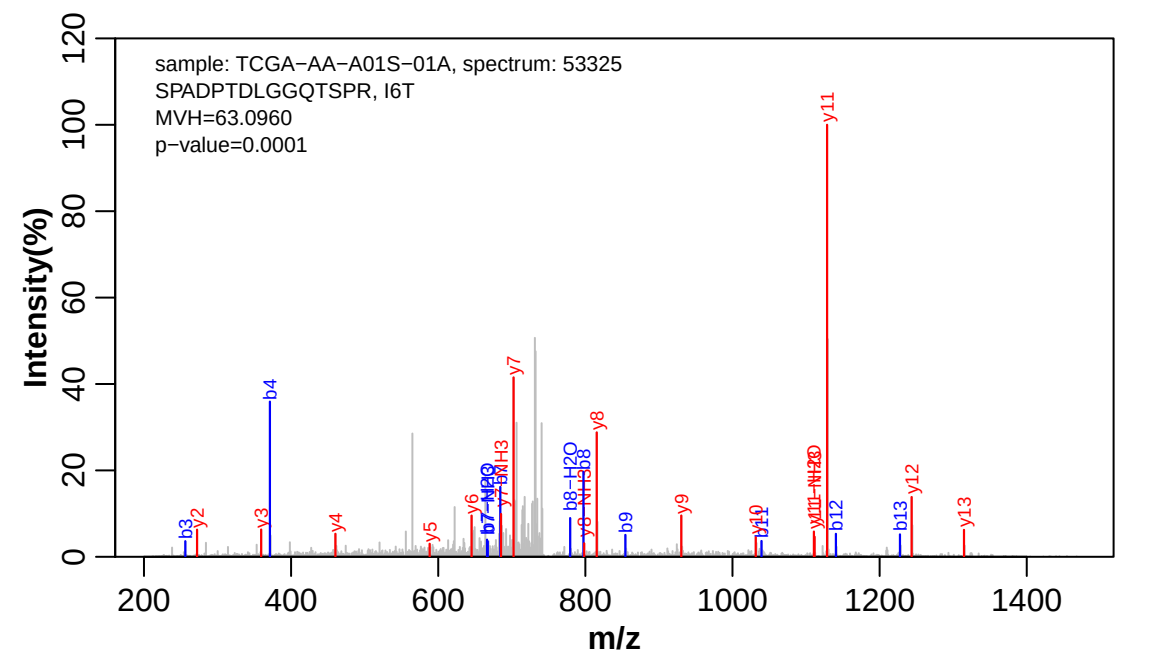

sample: TCGA−AA−A01S−01A, spectrum: 60582
SDEAHPFR, G4A
MVH=38.3582
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
b3−NH3
y2
b3
b4−H2O
b4
y3
b5
b5−H2O
y4
y5
y6
b7

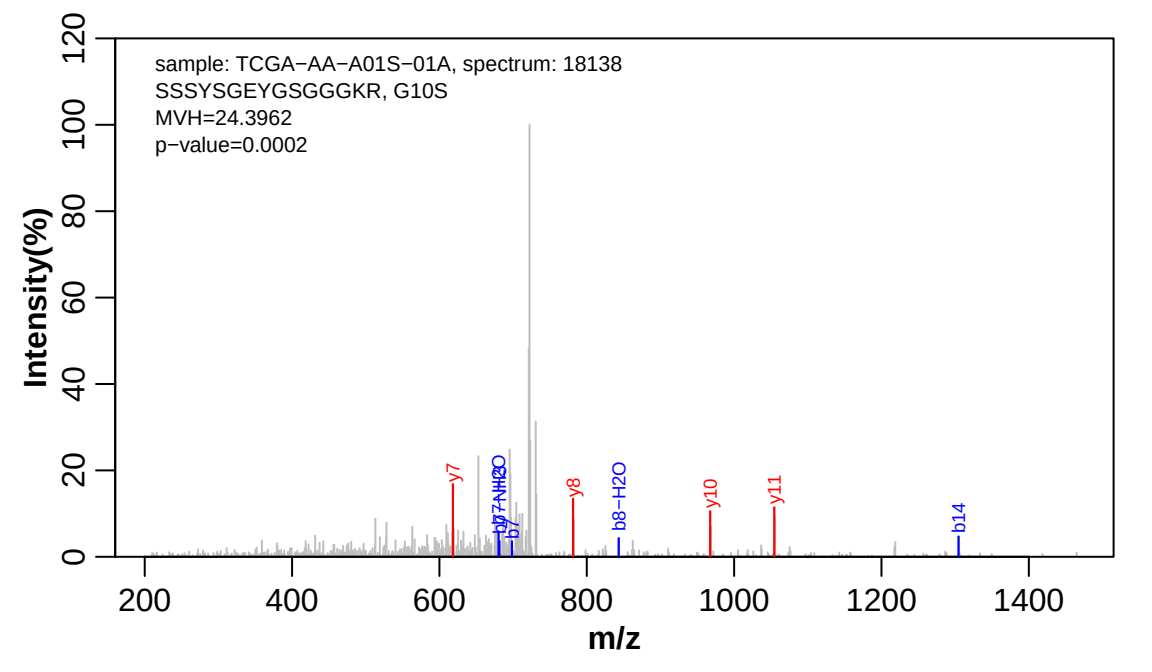

sample: TCGA−AA−A01S−01A, spectrum: 49875
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=45.4473
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
b6−H2O
b6
y7−NH3
y7
y7
b8−H2O
b8−NH3
b8
y8
b9−H2O
b9−NH3
b9
y9
y10
y10−NH3
y10−H2O
y11−NH3
y11−H2O
y11
b11−NH3
b11−H2O
b11
y12
b13
y13
y14−NH3
y14−H2O
y14
b14
y15
y16
b17−NH3
b17−H2O
b17
y17−NH3
y17−H2O
y17
b18

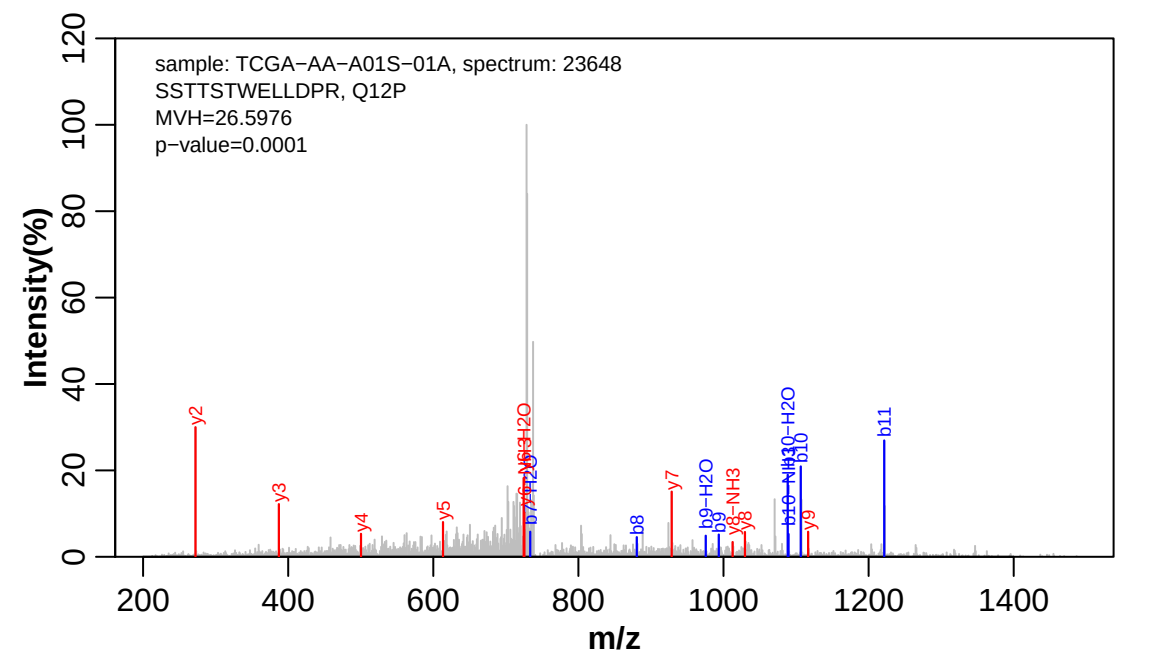

sample: TCGA−AA−A01S−01A, spectrum: 113480
SEALPTDLPTPSAPDLTEPK, A10T
MVH=47.2019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y5
b7−H2O
b7
y8
y10
y12
y12−NH3
b13
y13
y16
b18

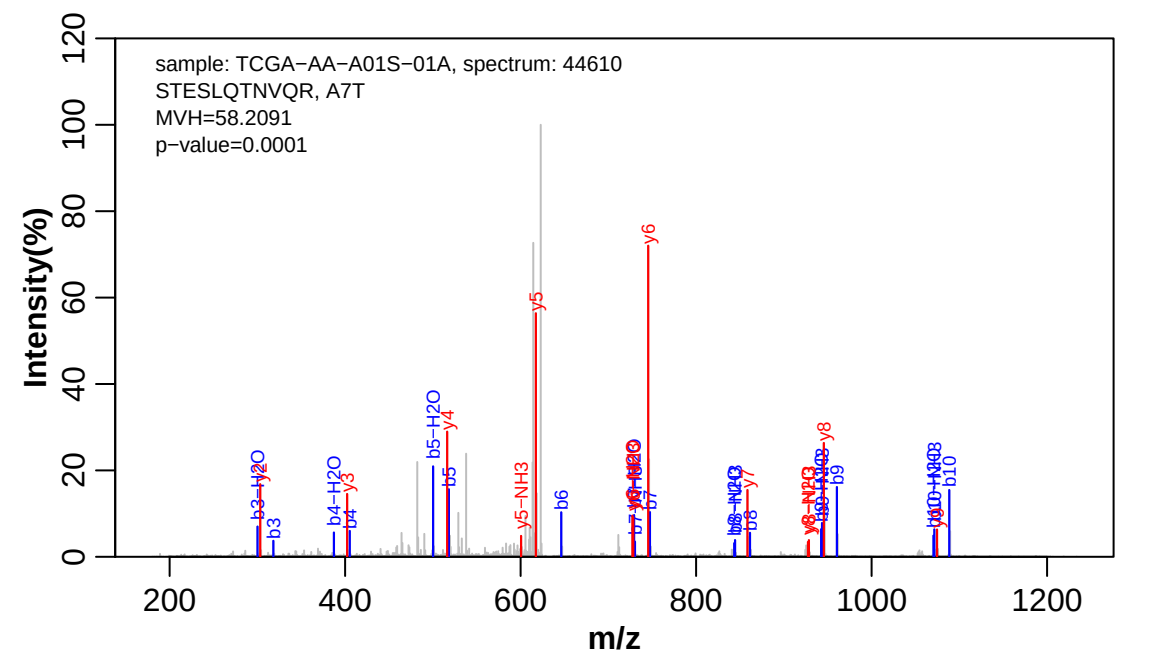

sample: TCGA−AA−A01S−01A, spectrum: 53231
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=44.7451
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6
y8
y9
y13
b12++
b14++
b15++−H2O
b18++−H2O
b18++−NH3
b20++
y6++
y8++
y9++
y13++
b5−H2O
b8++−H2O
b11++−H2O
b13++−H2O
b14++−H2O
b15++−H2O
b16++−H2O
b17++
b18++
b8
y14++

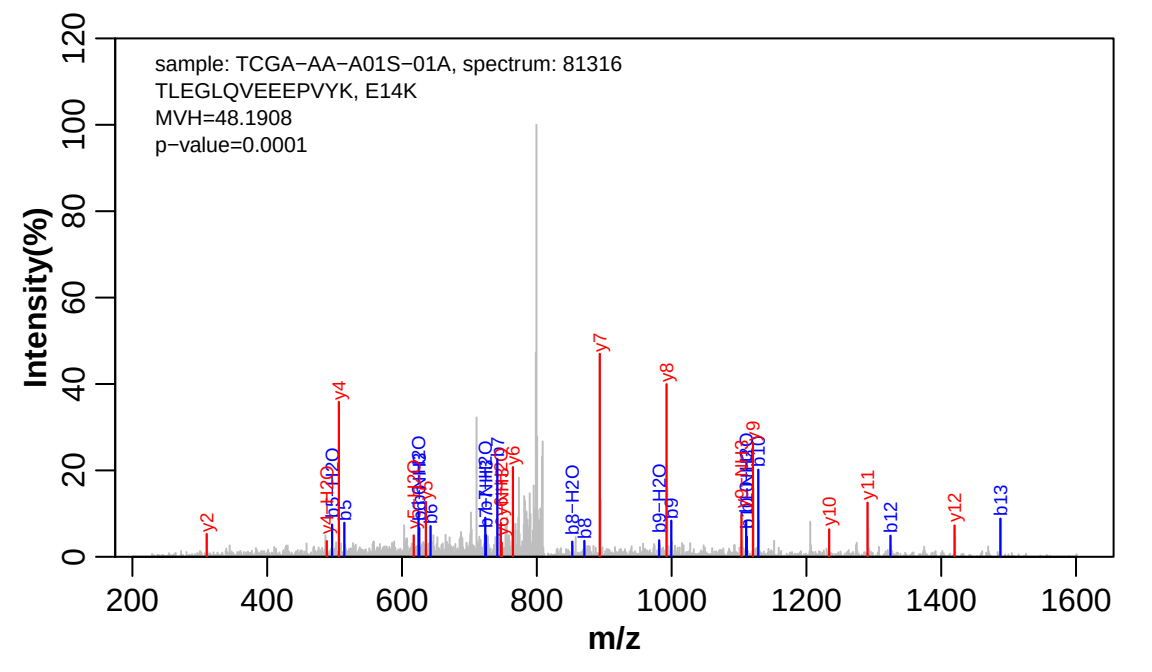

sample: TCGA−AA−A01S−01A, spectrum: 116585
SPAADAKPAPK, T3A
MVH=35.2372
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
b3++
b4−H2O
b7++
y6++
y8++
y4
b5−H2O
y9++
b5
y10++

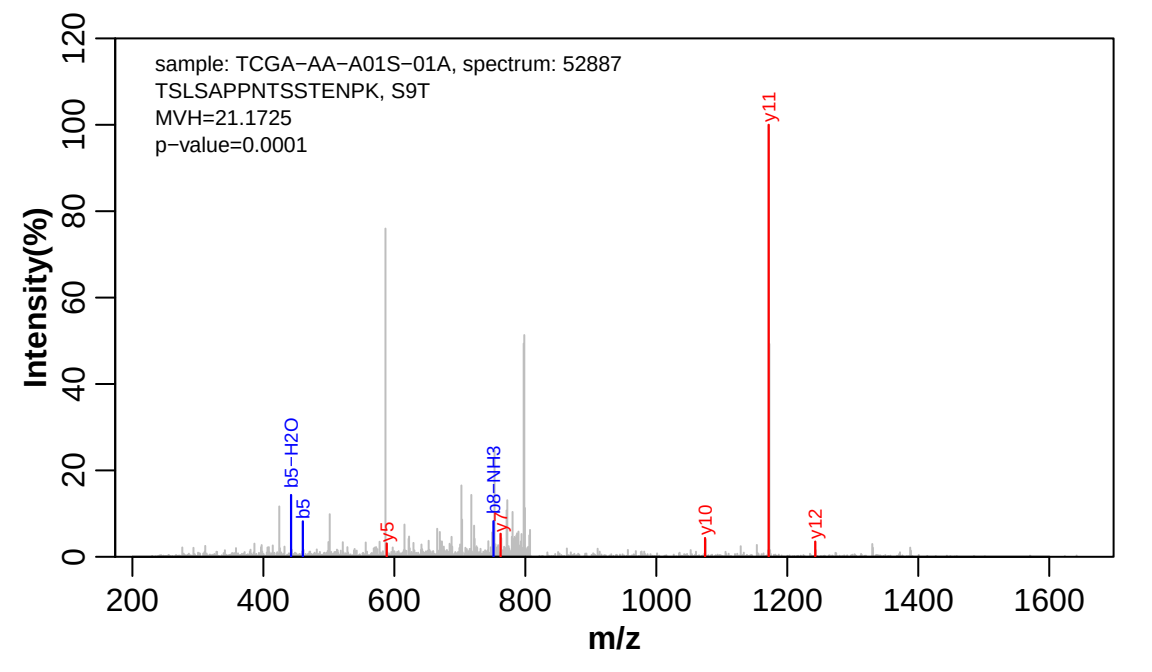

sample: TCGA−AA−A01S−01A, spectrum: 53325
SPADPTDLGGQTSPR, I6T
MVH=63.0960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4
y3
y4
y5
y6
b7−NH3
b7−H2O
y7
y7−NH3
y8
b8−H2O
y8−NH3
b9
y9
b10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

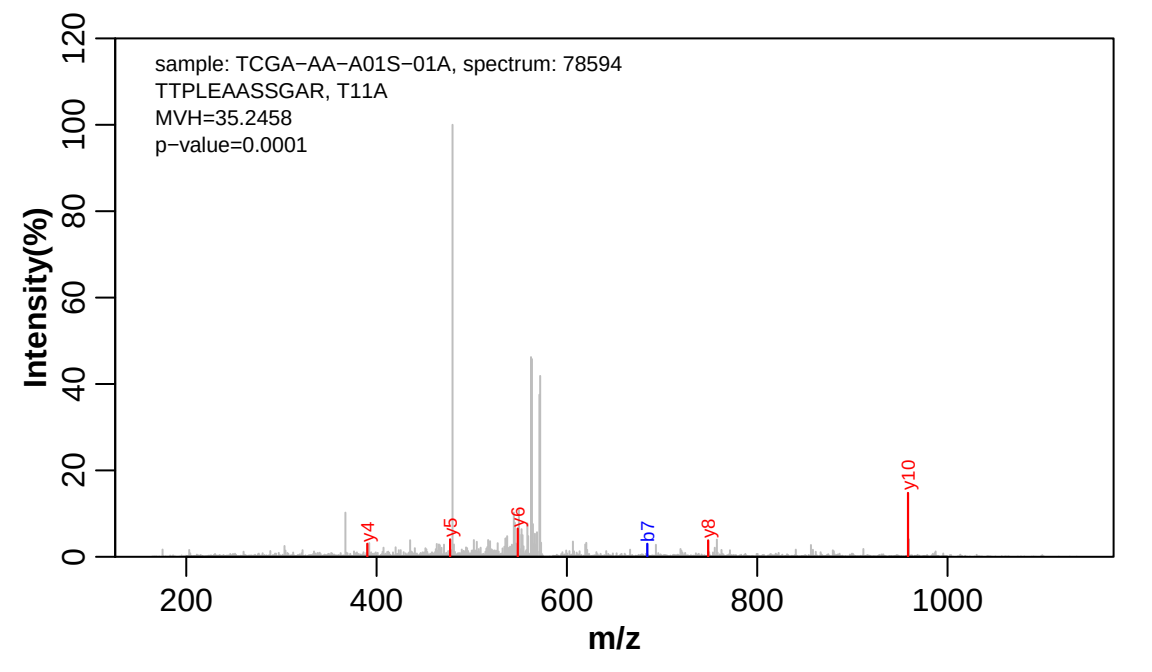

sample: TCGA−AA−A01S−01A, spectrum: 18138
SSSYSGEYGSGGGKR, G10S
MVH=24.3962
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
b7−NH3
b7
y8
b8−H2O
y10
y11
b14

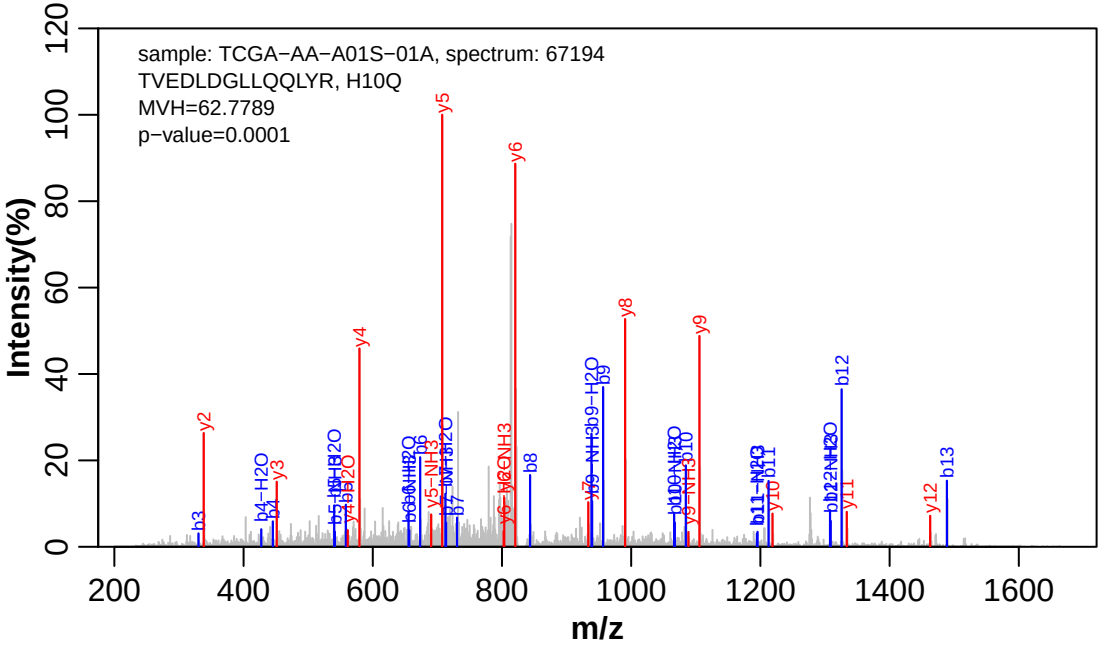

sample: TCGA−AA−A01S−01A, spectrum: 23648
SSTTSTWELLDPR, Q12P
MVH=26.5976
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
y7
y8
y8−NH3
y9
b8
b9
b9−H2O
b10
b10−H2O
b11

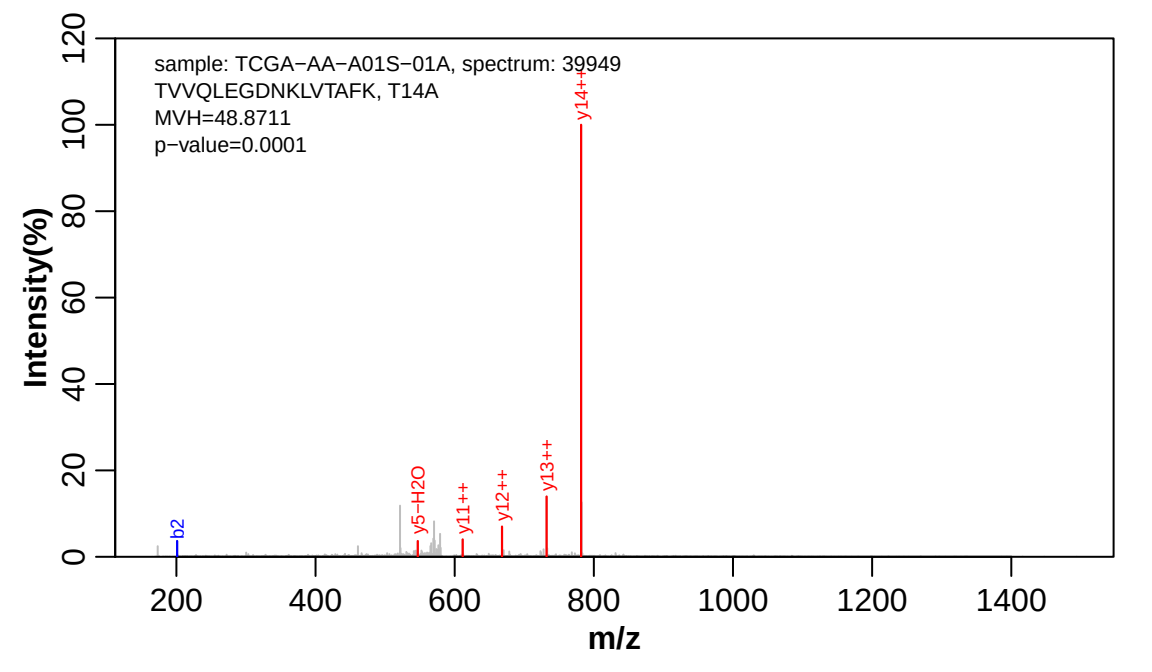

sample: TCGA−AA−A01S−01A, spectrum: 44610
STESLQTNVQR, A7T
MVH=58.2091
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
b4−H2O
y3
b4
b5−H2O
y4
b5
y5−NH3
y5
b6
y6
b7
b8−H2O
y7
b8
y8
b9
b10
b10−H2O

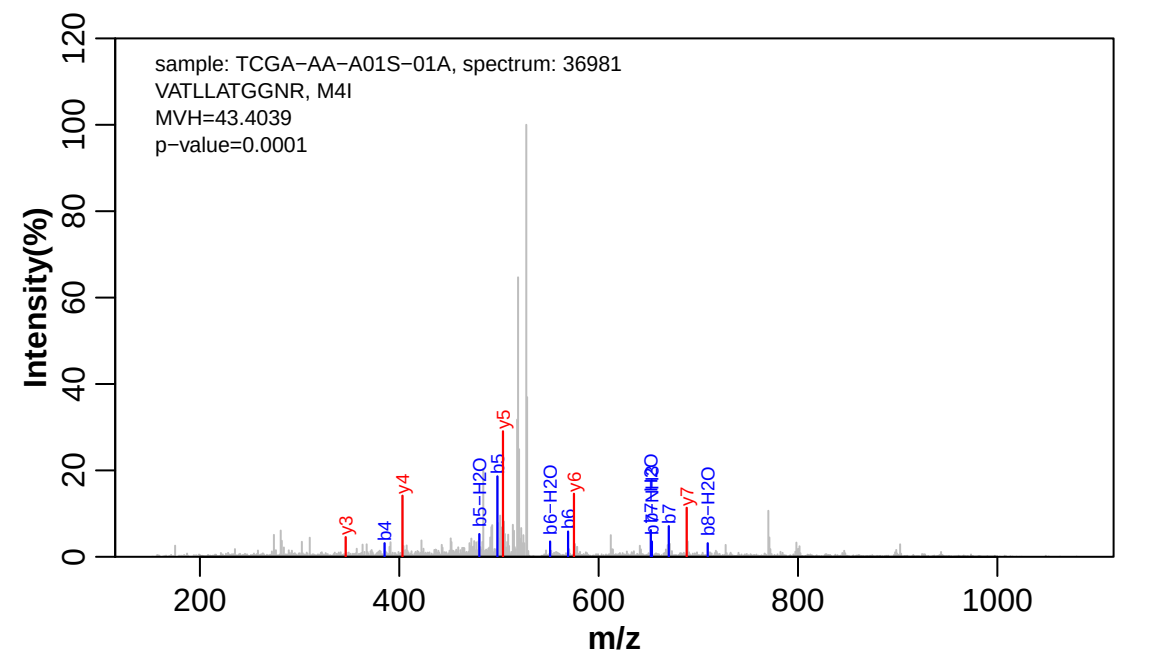

sample: TCGA−AA−A01S−01A, spectrum: 81316
TLEGLQVEEEPVYK, E14K
MVH=48.1908
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y4
y5
y6
y7
y8
y9
y10
y11
y12
b5
b8
b9
b10
b11
b12
b13

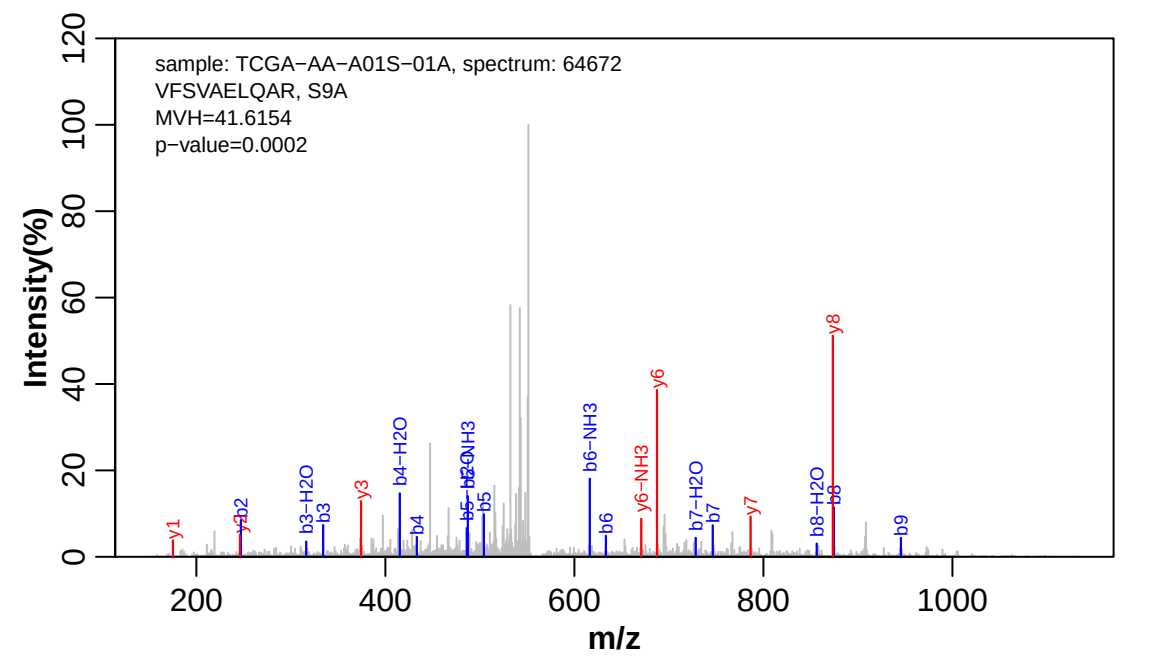

sample: TCGA−AA−A01S−01A, spectrum: 52887
TSLSAPPNTSSTENPK, S9T
MVH=21.1725
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y5
b8−NH3
y7
y10
y11
y12

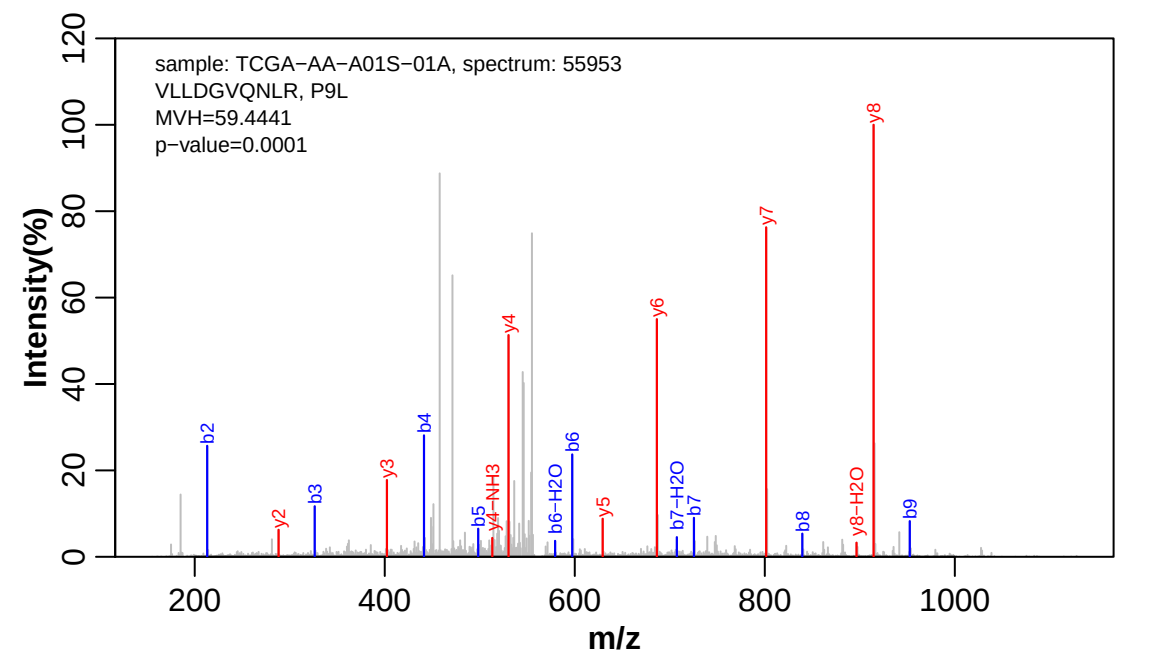

sample: TCGA−AA−A01S−01A, spectrum: 78594
TTPLEAASSGAR, T11A
MVH=35.2458
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y4
y5
y6
b7
y8
y10

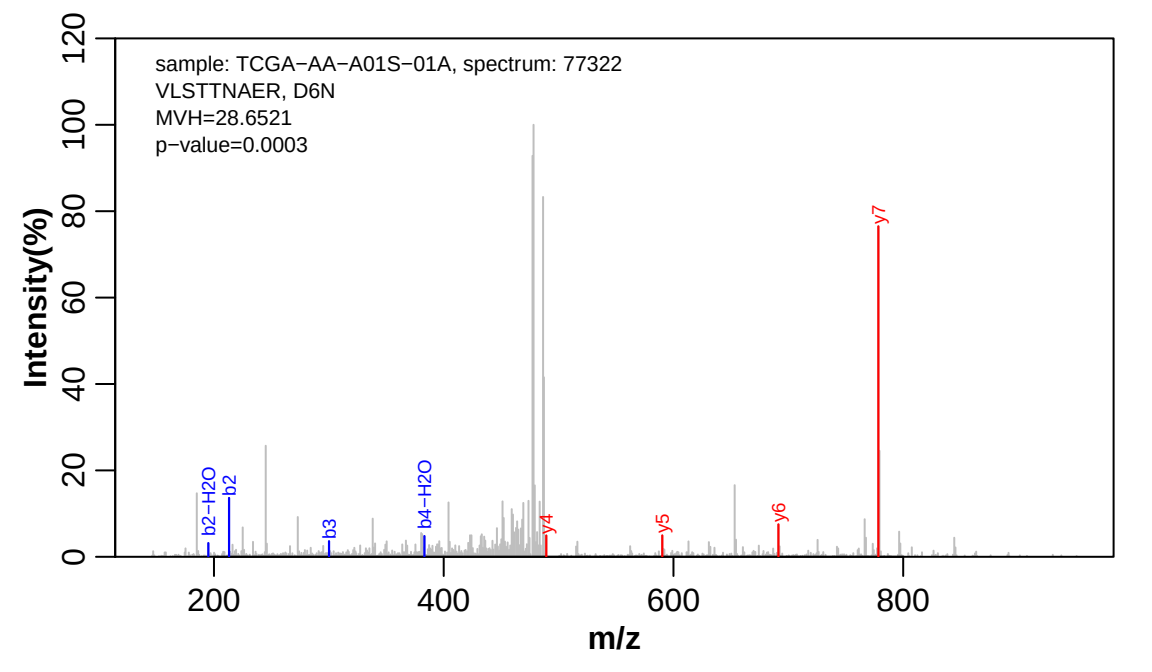

sample: TCGA−AA−A01S−01A, spectrum: 67194
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y8
y9
y2
b12
b8
b9
b13
y12
y11
y10
b3
b4−H2O
b4
y3
y5−NH3
y6−NH3
b9−H2O
y9−NH3
b11
b11−NH3
b12−NH3
b12−H2O

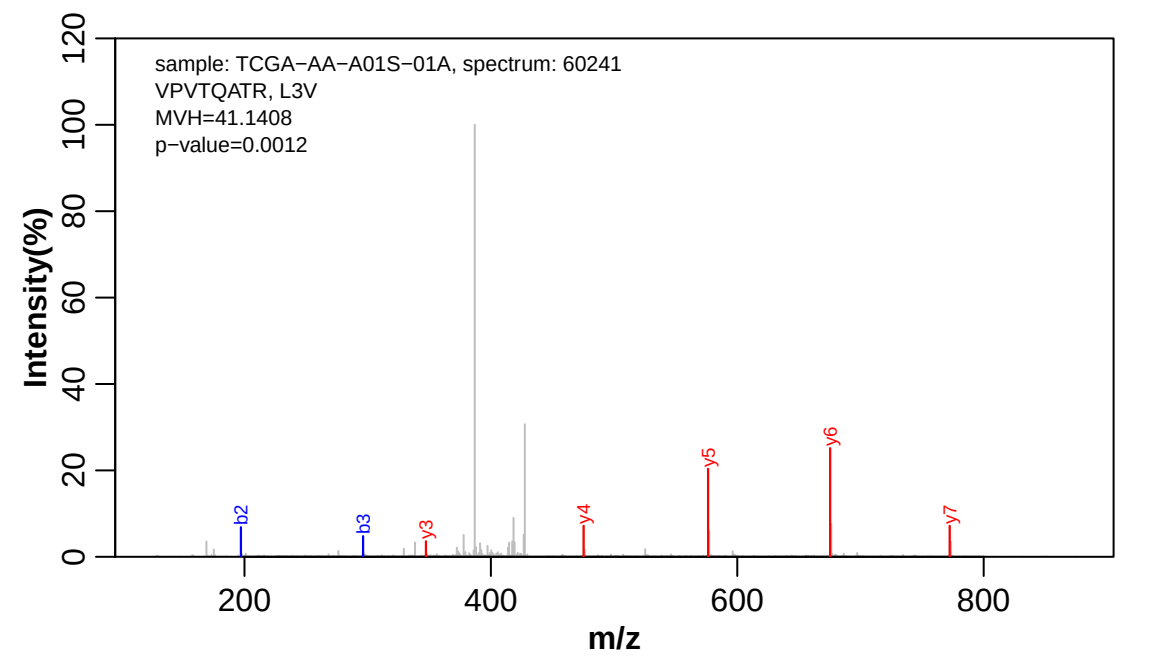

sample: TCGA−AA−A01S−01A, spectrum: 39949
TVVQLEGDNKLVTAFK, T14A
MVH=48.8711
p−value=0.0001
y14++
y13++
y12++
y11++
y5−H2O
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

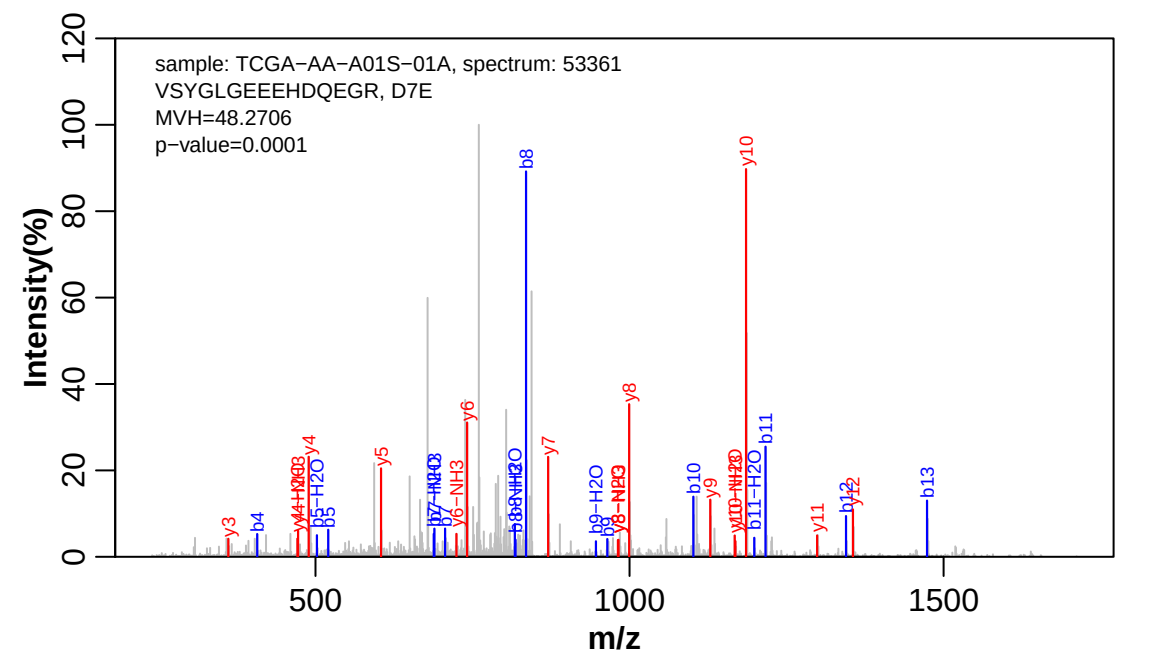

sample: TCGA−AA−A01S−01A, spectrum: 36981
VATLLATGGNR, M4I
MVH=43.4039
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
b8−H2O

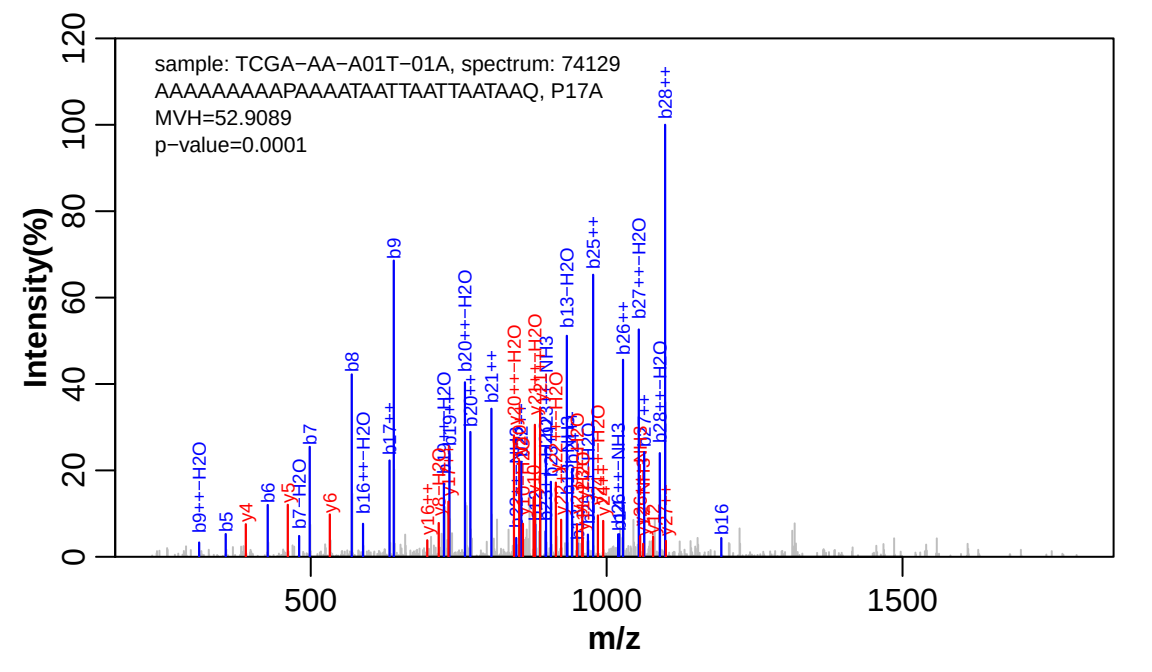

sample: TCGA−AA−A01S−01A, spectrum: 64672
VFSVAELQAR, S9A
MVH=41.6154
p−value=0.0002
Intensity(%)
m/z
y1
y2
b2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
b6−NH3
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9

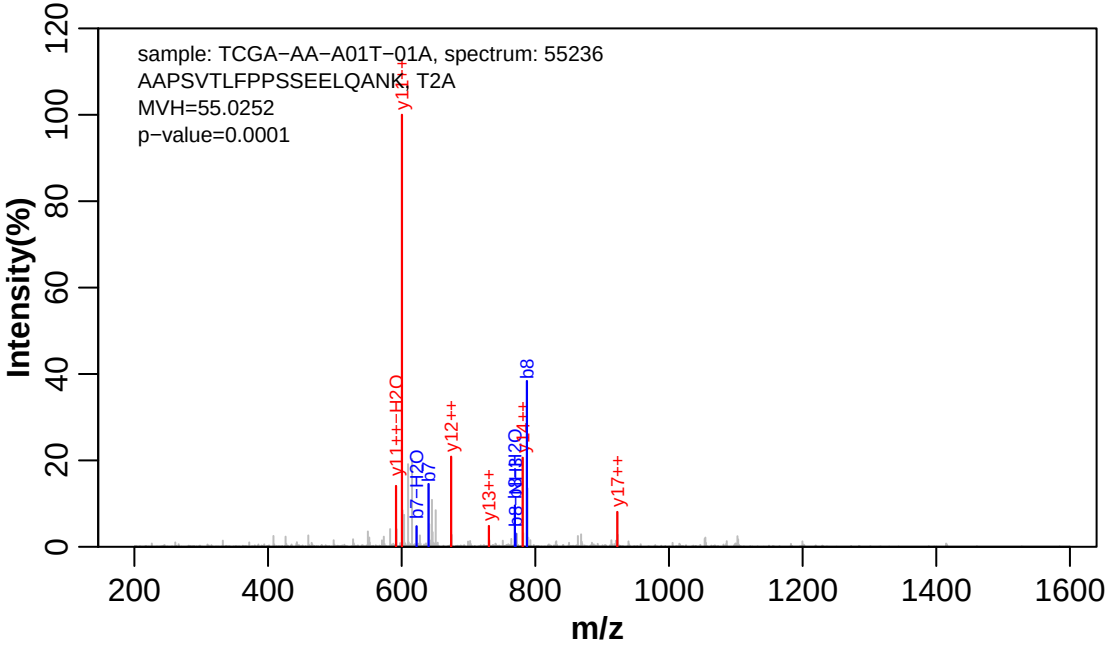

sample: TCGA−AA−A01S−01A, spectrum: 55953
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3
y3
b4
y4
b5
y4−NH3
b6−H2O
b6
y5
y6
b7−H2O
b7
b8
y7
y8−H2O
y8
b9

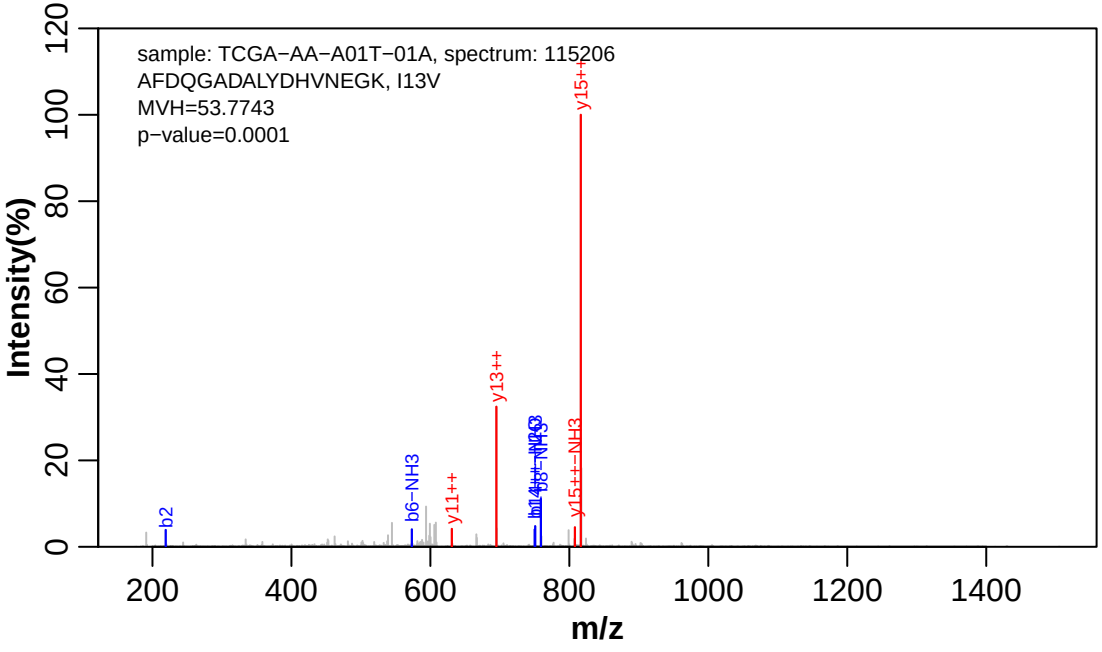

sample: TCGA−AA−A01S−01A, spectrum: 77322
VLSTTNAER, D6N
MVH=28.6521
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3
b4−H2O
y4
y5
y6
y7

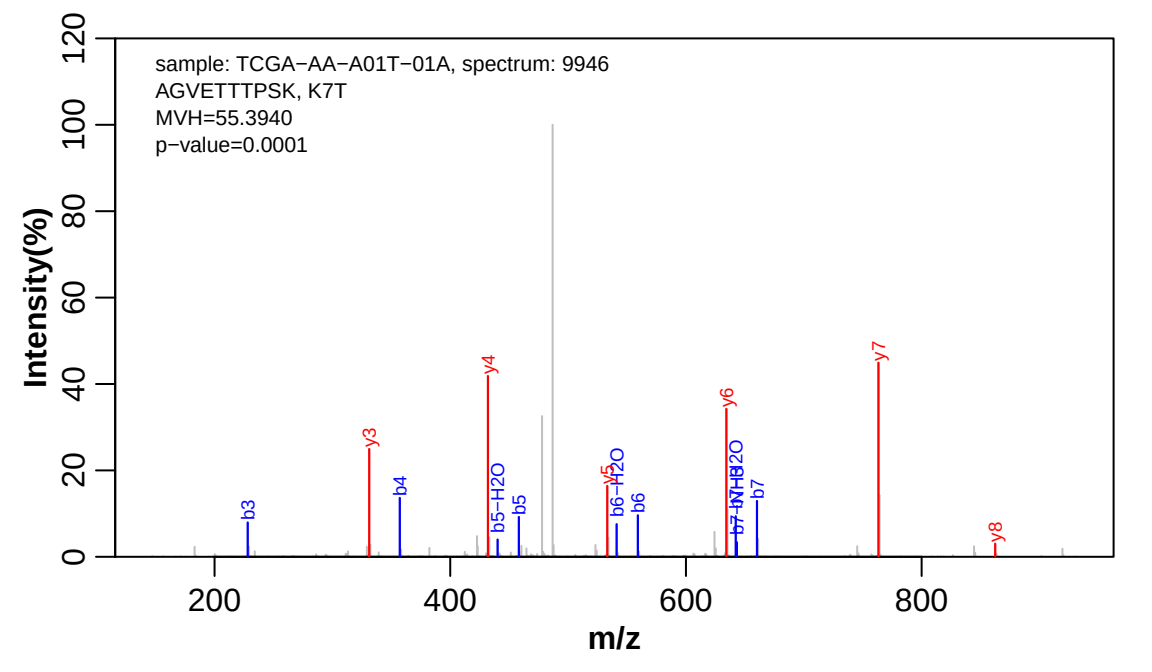

sample: TCGA−AA−A01S−01A, spectrum: 60241
VPVTQATR, L3V
MVH=41.1408
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

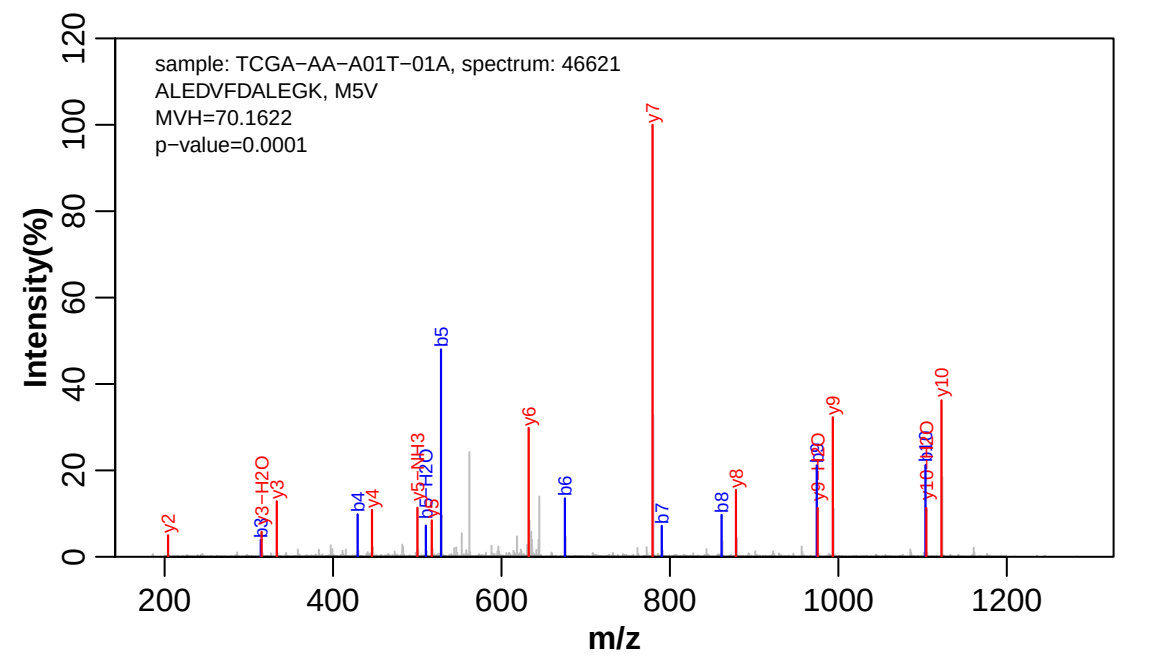

sample: TCGA−AA−A01S−01A, spectrum: 53361
VSYGLGEEEHDQEGR, D7E
MVH=48.2706
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b4
b5
b5−H2O
y4
y5
y6
y6−NH3
y7
b8
b9−H2O
y8
b10
y9
b11
b11−H2O
y11
b12
y12
b13
y10

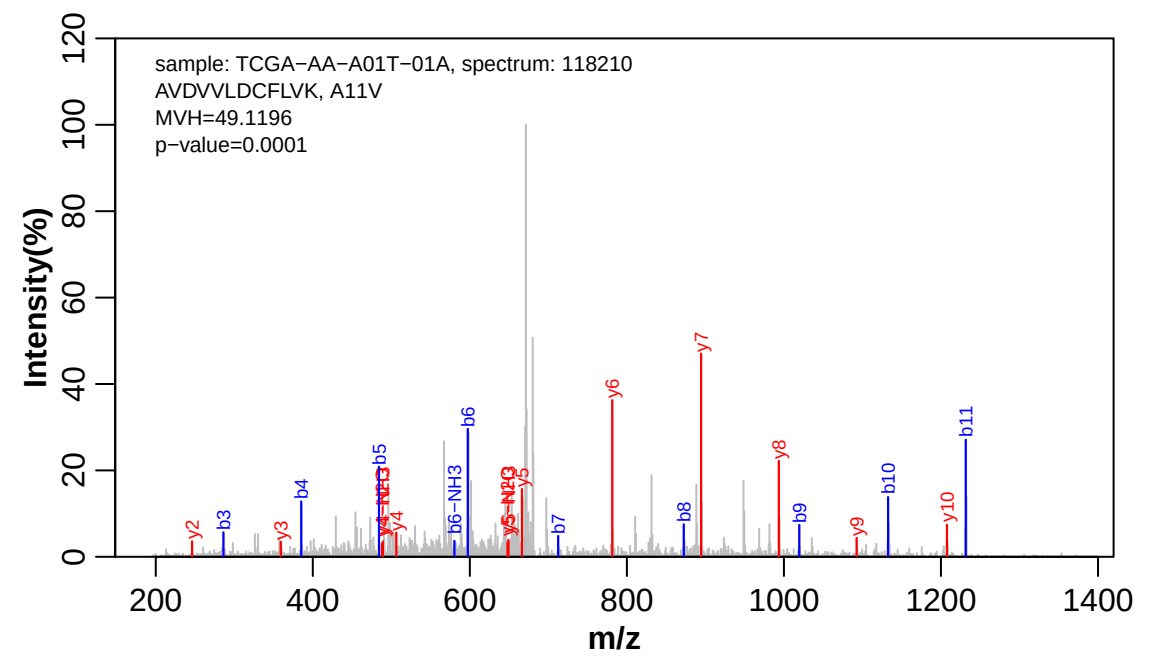

sample: TCGA−AA−A01T−01A, spectrum: 74129
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=52.9089
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9++−H2O
b5
y4
b6
y5
b7−H2O
b7
y6
b8
b16++−H2O
b17++
b9
y16++
b19++−H2O
b20++
b20++−H2O
b21++
b13−H2O
b25++
b26++
b27++−H2O
b28++
b28++−H2O
b16

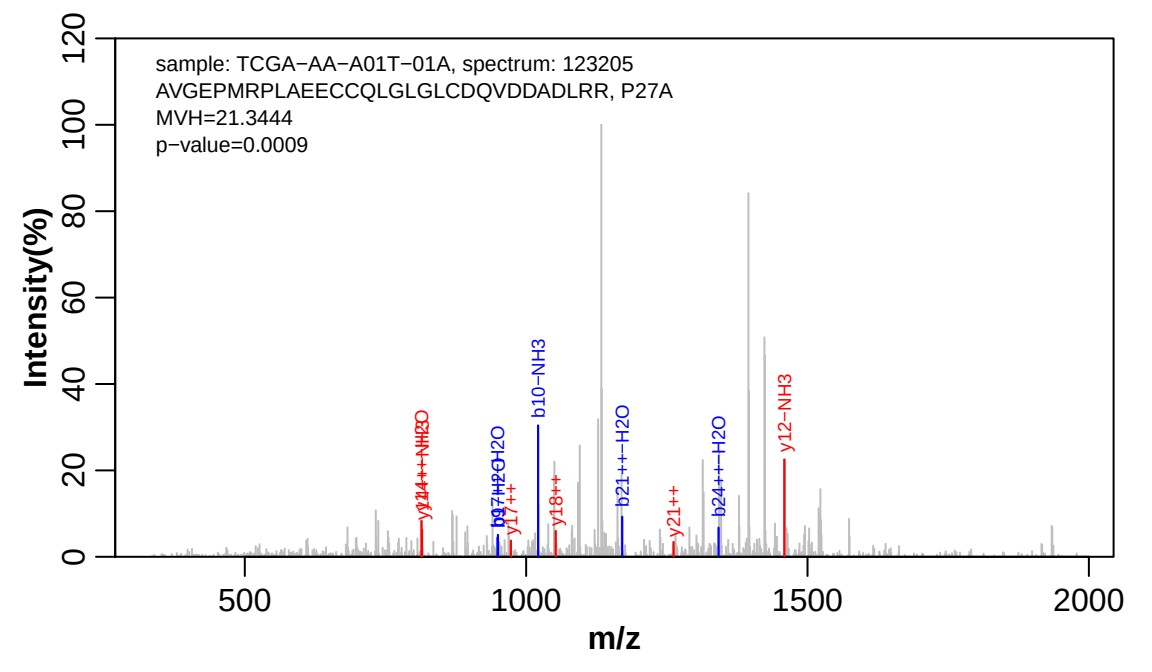

sample: TCGA−AA−A01T−01A, spectrum: 55236
AAPSVTLFPPSSEELQANK, T2A
MVH=55.0252
p−value=0.0001
Intensity(%)
m/z
y11++−H2O
y12++
y13++
y17++
b7−H2O
b7
b8
y14++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

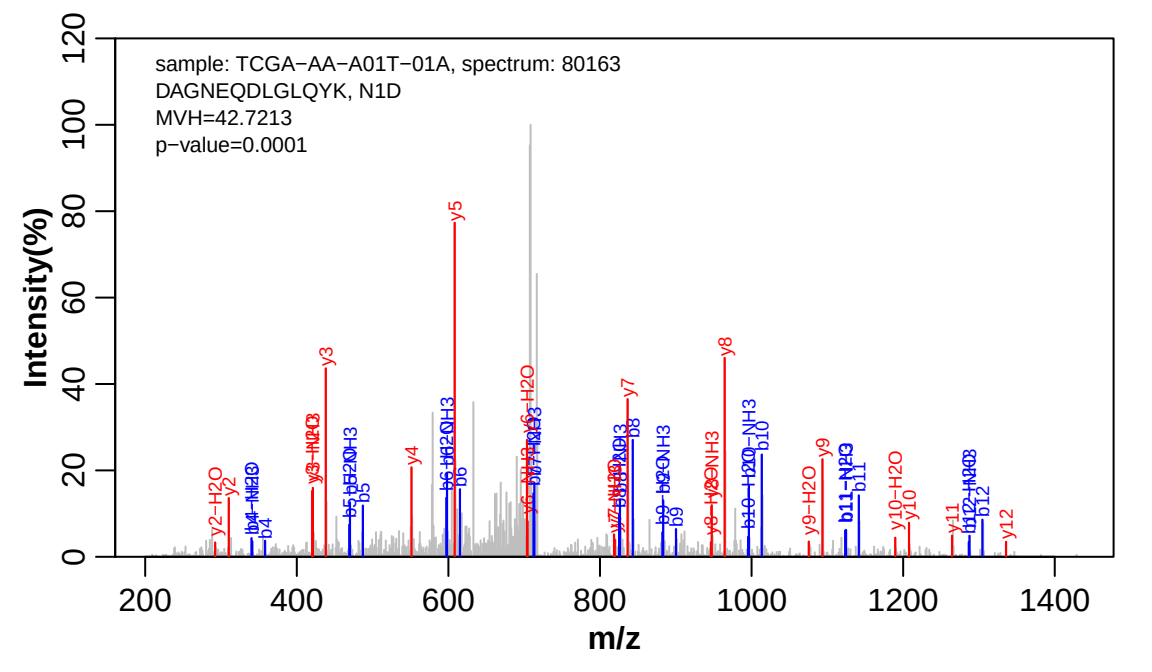

sample: TCGA−AA−A01T−01A, spectrum: 115206
AFDQGADALYDHVNEGK, I13V
MVH=53.7743
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b6−NH3
y11++
y13++
y15++
y15++−NH3

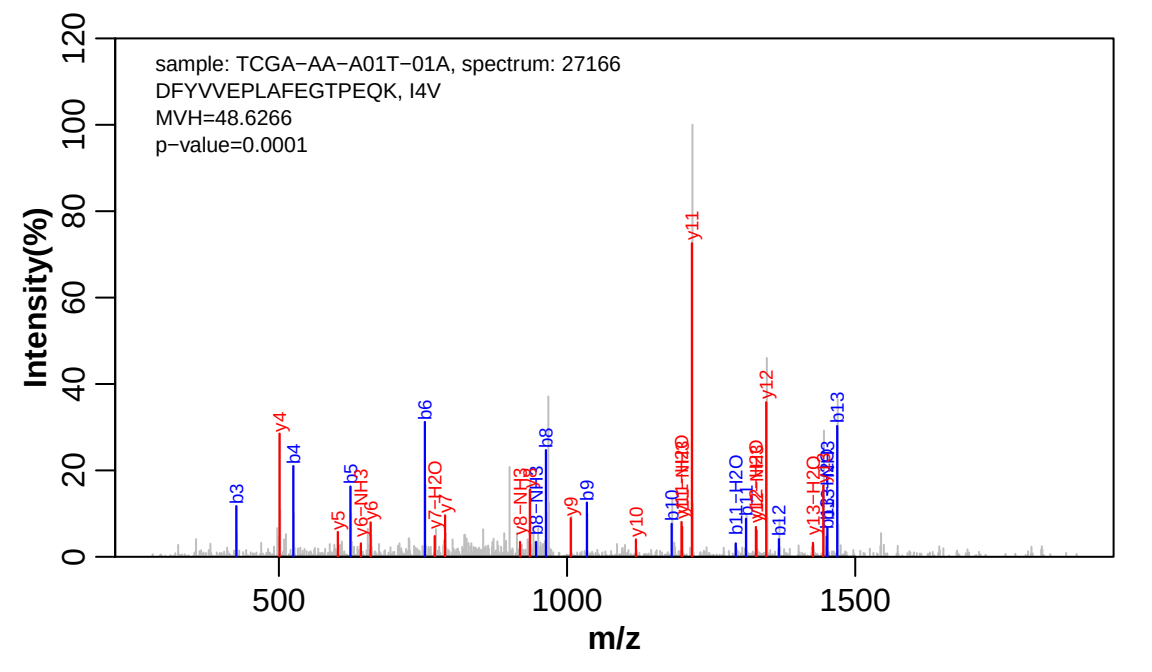

sample: TCGA−AA−A01T−01A, spectrum: 9946
AGVETTTPSK, K7T
MVH=55.3940
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y8

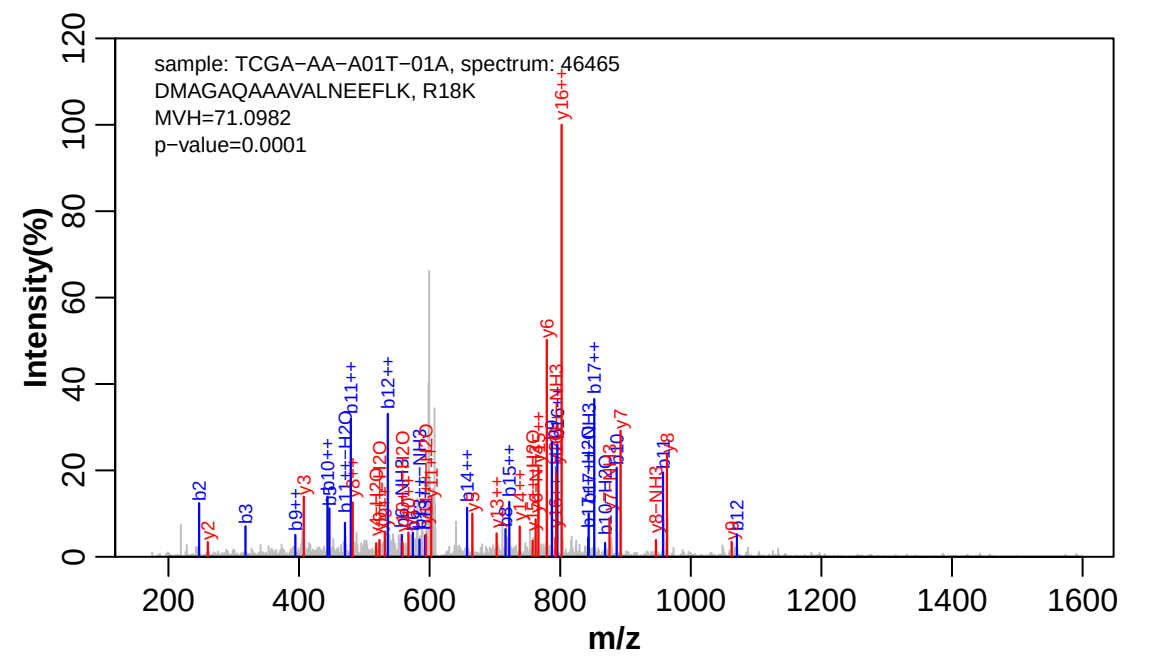

sample: TCGA−AA−A01T−01A, spectrum: 46621
ALEDVFDALEGK, M5V
MVH=70.1622
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
y5−NH3
b5−H2O
b5
y6
b6
y7
b7
b8
y8
y9−H2O
y9
y10−H2O
y10

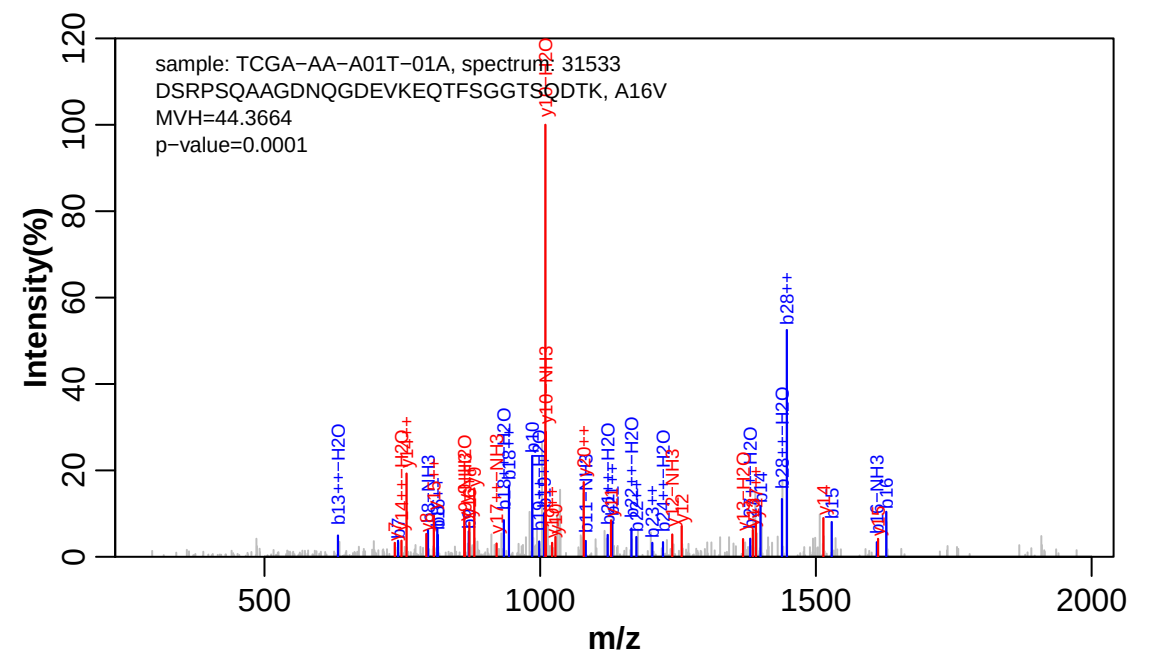

sample: TCGA−AA−A01T−01A, spectrum: 118210
AVDVVLDCFLVK, A11V
MVH=49.1196
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b5
y4
b6−NH3
b6
y5
b7
y6
b8
y7
y8
b9
y9
b10
y10
b11

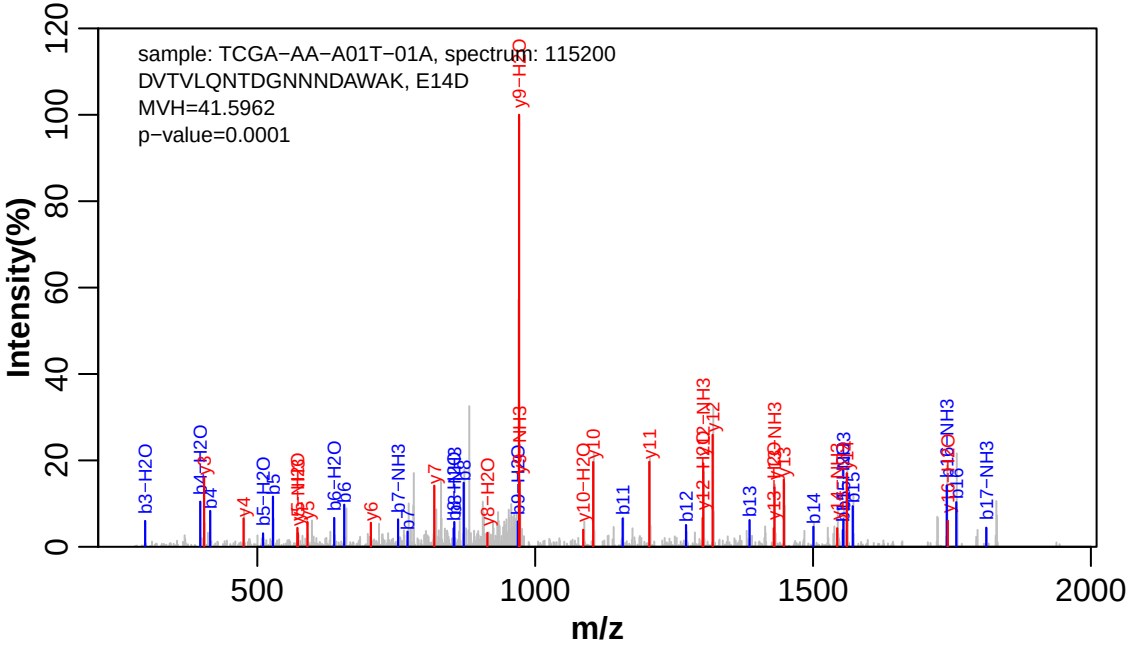

sample: TCGA−AA−A01T−01A, spectrum: 123205
AVGEPMRPLAEECCQLGLGLCDQVDDADLRR, P27A
MVH=21.3444
p−value=0.0009
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b10−NH3
b21++−H2O
b24++−H2O
y12−NH3
y21++
y18++
y17++

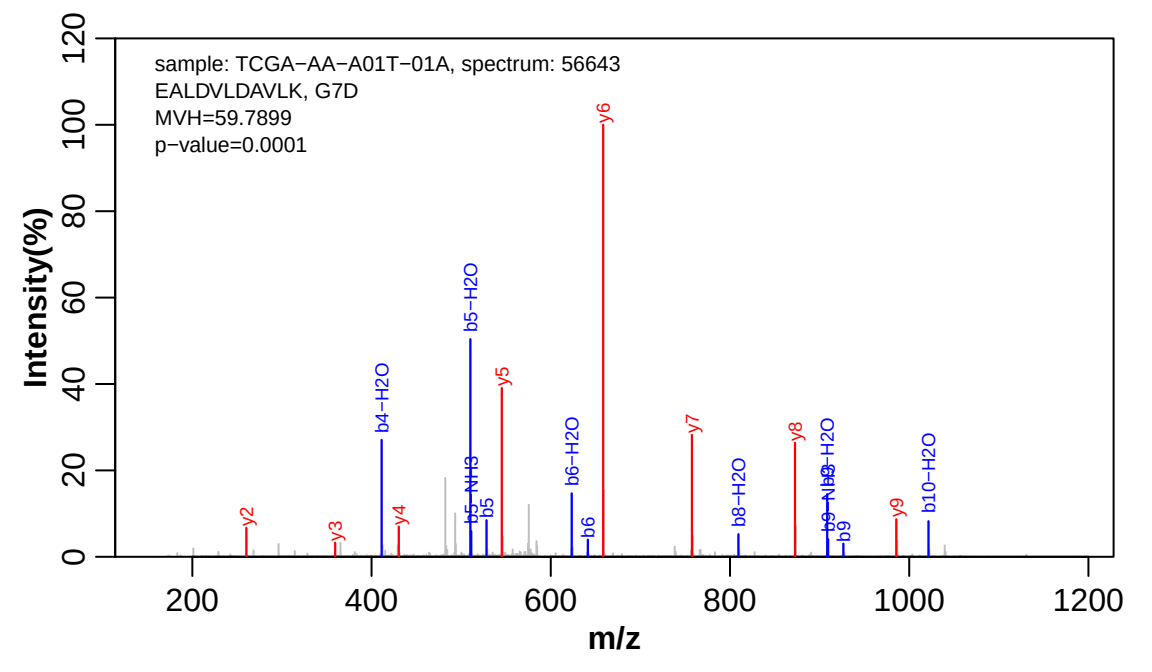

sample: TCGA−AA−A01T−01A, spectrum: 80163
DAGNEQDLGLQYK, N1D
MVH=42.7213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y3
y4
y8
y7
y2−H2O
y2
y9
y9−H2O
y10−H2O
y10
y11
y12
b11
b12
b10
b6
b5
b4
b9
b8

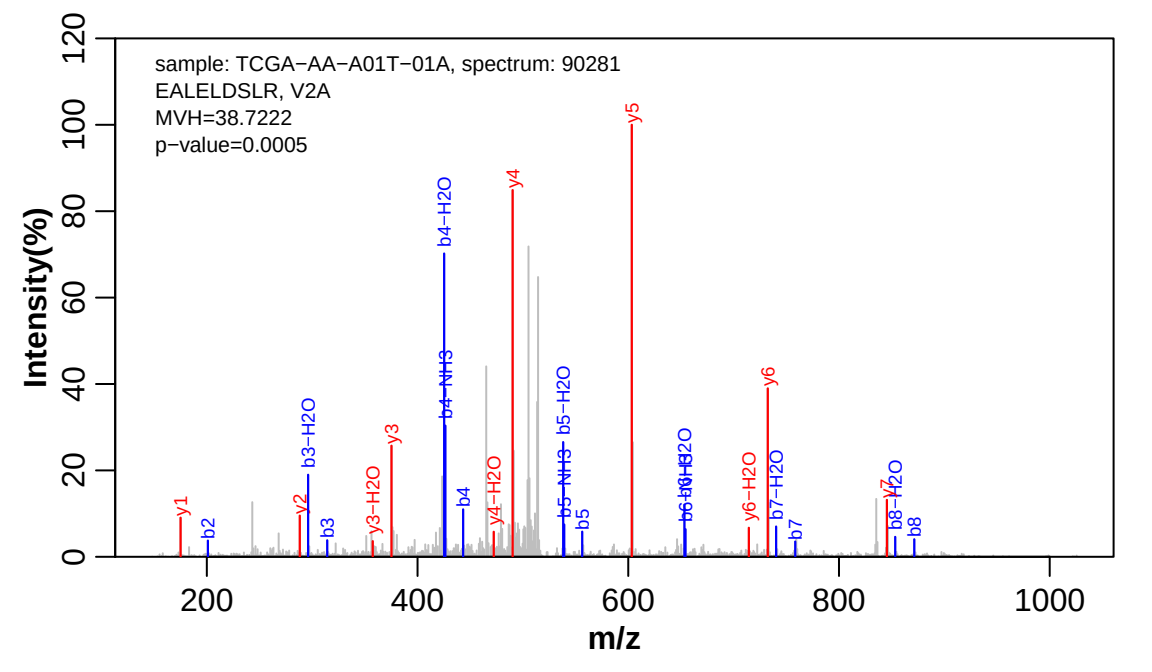

sample: TCGA−AA−A01T−01A, spectrum: 27166
DFYVVEPLAFEGTPEQK, I4V
MVH=48.6266
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6−NH3
y6
b6
y7−H2O
y7
y8−NH3
b8−NH3
b8
y9
b9
y10
b10
y11
b11−H2O
b11
y12
b12
b13

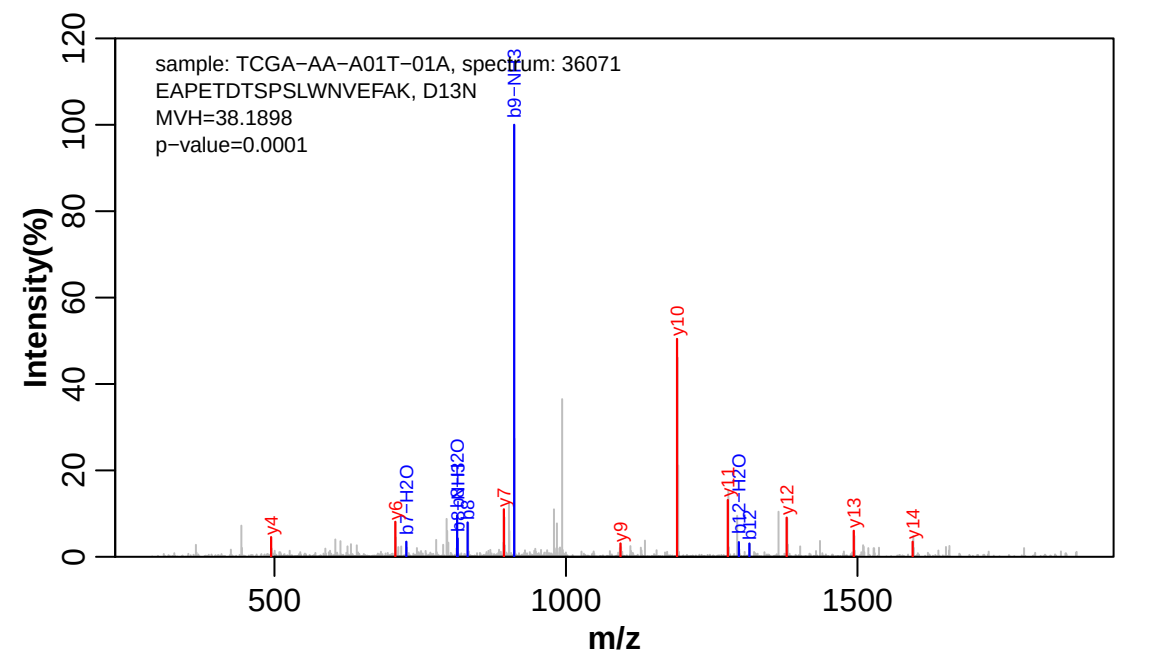

sample: TCGA−AA−A01T−01A, spectrum: 46465
DMAGAQAAAVALNEEFLK, R18K
MVH=71.0982
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y16++
y6
b17++
b11++
b12++
b2
y2
b3
b9++
y3
b14++
y14++
y7
y8
b18
y12

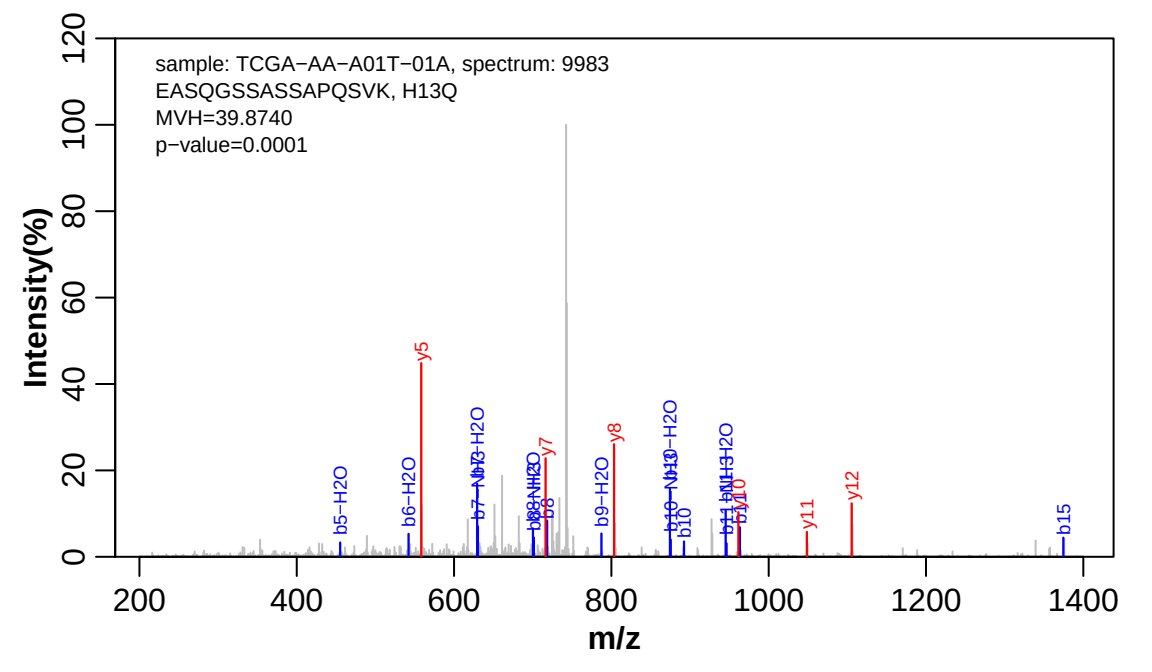

sample: TCGA−AA−A01T−01A, spectrum: 31533
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=44.3664
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11−H2O
y10−NH3
b28++
b28++−H2O
b13++−H2O
y14++
y14++−H2O
y8−NH3
b8−NH3
y12−NH3
b15
y15−NH3
b16

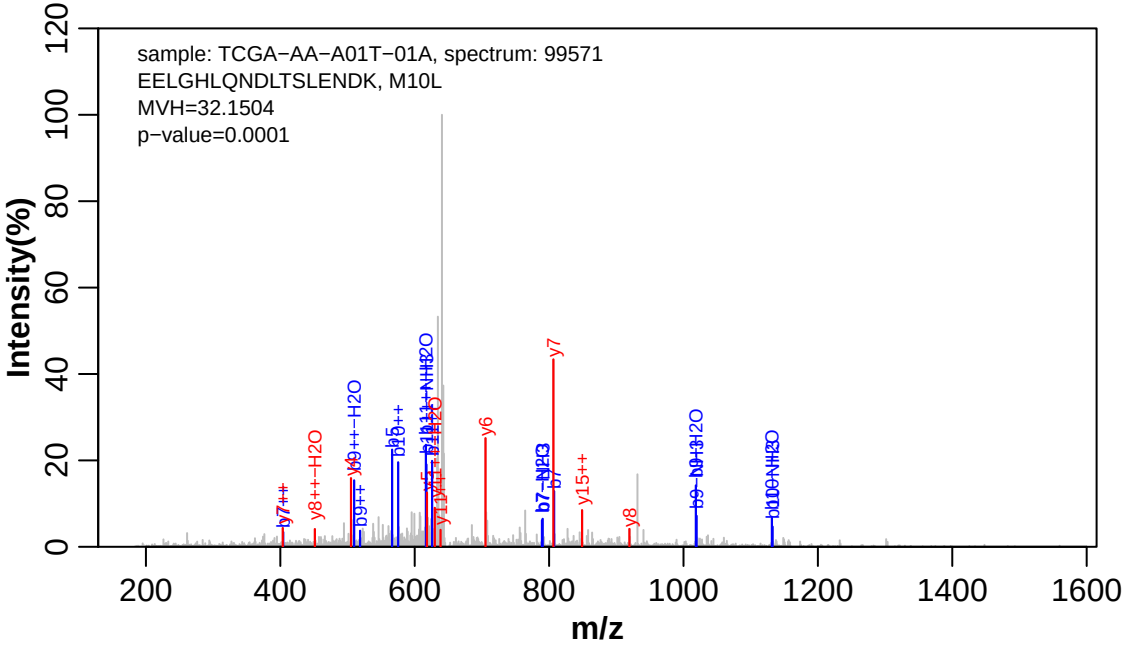

sample: TCGA−AA−A01T−01A, spectrum: 115200
DVTVLQNTDGNNNDAWAK, E14D
MVH=41.5962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y9−H2O
b3−H2O
b4−H2O
y3
b4
y4
b5−H2O
b5
b6−H2O
b6
y6
b7−NH3
b7
y7
y8
y8−H2O
y9−NH3
y10−H2O
y10
y11
b11
b12
y12−H2O−NH3
y12
b13
y13−NH3
y13
b14
b15
b16−NH3
b16
y16
b17−NH3

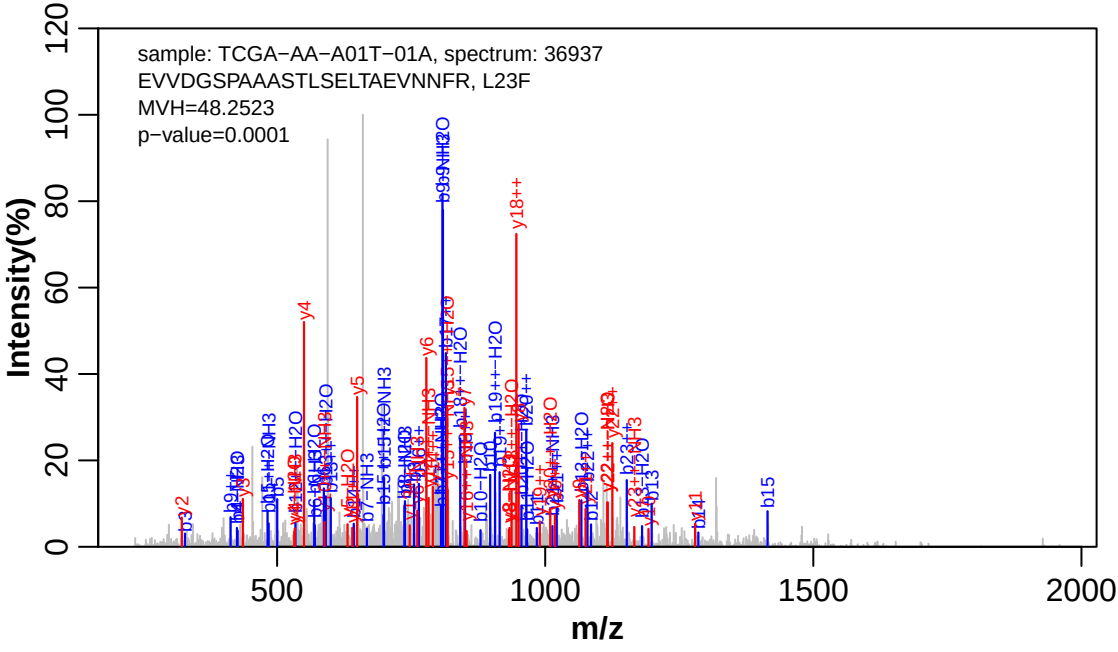

sample: TCGA−AA−A01T−01A, spectrum: 56643
EALDVLDAVLK, G7D
MVH=59.7899
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
y4
b4−H2O
b5−NH3
b5
b5−H2O
y5
b6
b6−H2O
y6
y7
b8−H2O
y8
b9−NH3
b9
b9−H2O
y9
b10−H2O

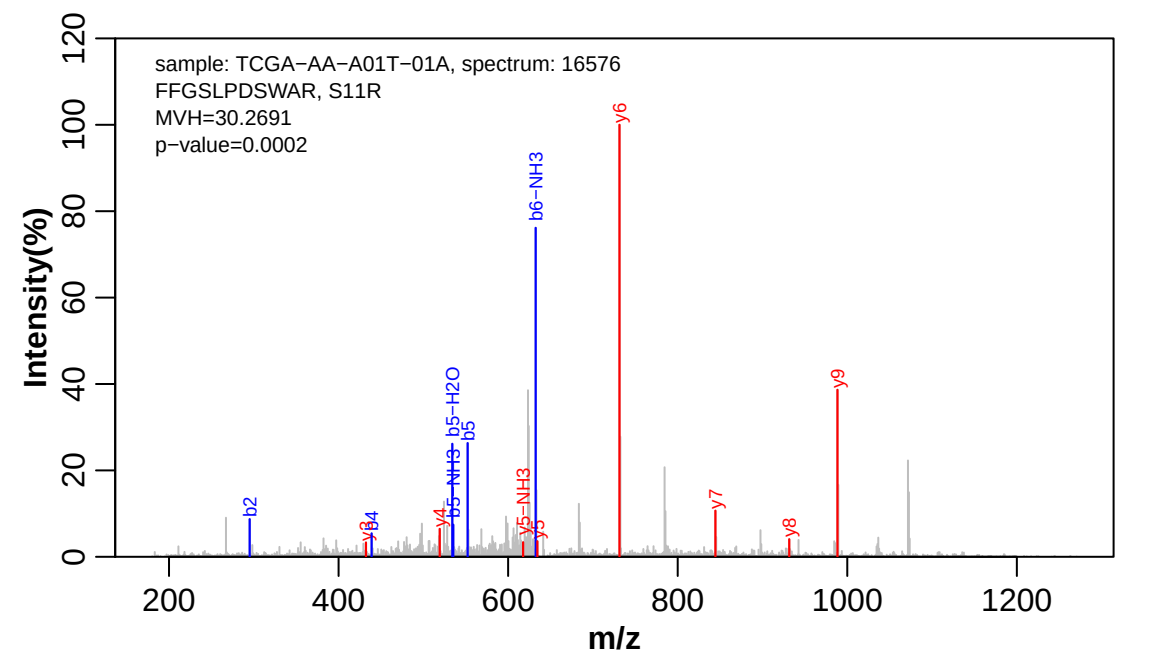

sample: TCGA−AA−A01T−01A, spectrum: 90281
EALELDSLR, V2A
MVH=38.7222
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3−H2O
y3
b4−H2O
b4−NH3
b4
y4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6−NH3
y6−H2O
y6
b7−H2O
b7
b8−H2O
b8

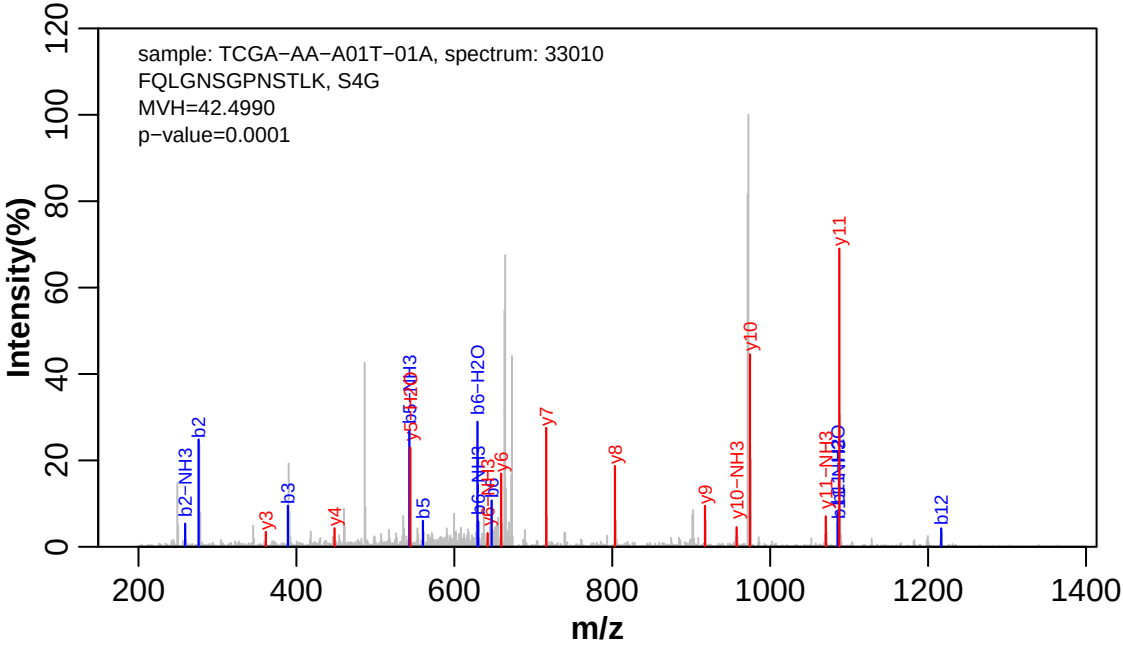

sample: TCGA−AA−A01T−01A, spectrum: 36071
EAPETDTSPSLWNVEFAK, D13N
MVH=38.1898
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9−NH3
y10
y4
y6
b7−H2O
y7
y9
y11
b12−H2O
y12
y13
y14

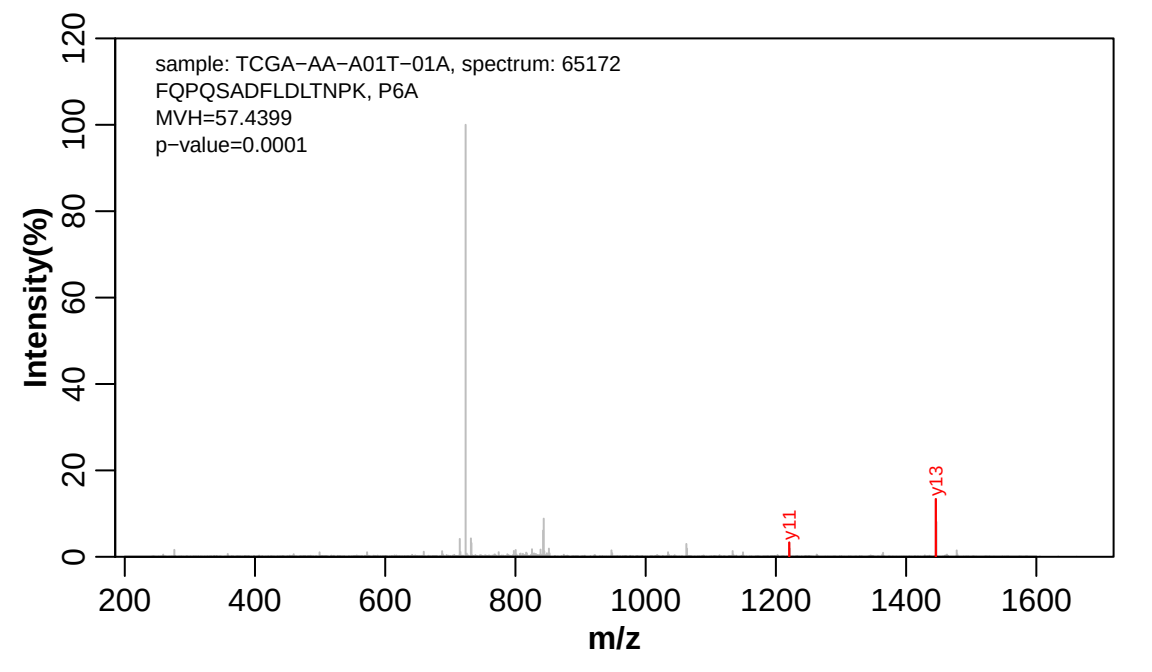

sample: TCGA−AA−A01T−01A, spectrum: 9983
EASQGSSASSAPQSVK, H13Q
MVH=39.8740
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5−H2O
b6−H2O
y5
b7−H2O
b7−NH3
y7
b8
y8
b9−H2O
b10−H2O
b10
y10
y11
y12
b15

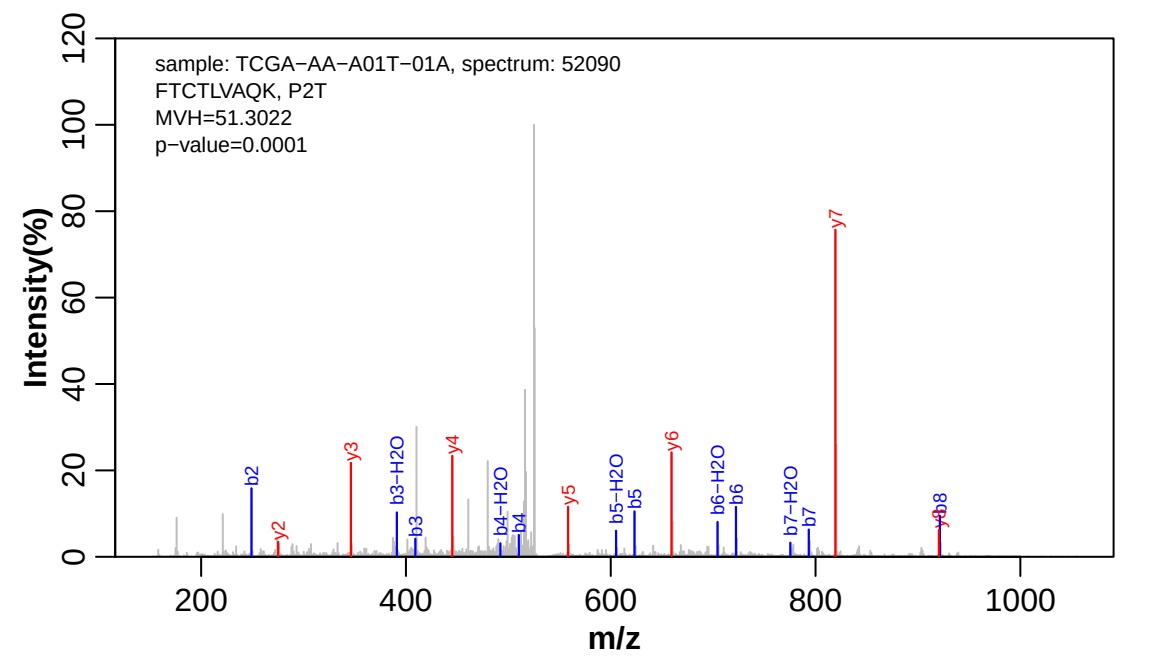

sample: TCGA−AA−A01T−01A, spectrum: 99571
EELGHLQNDLTSLENDK, M10L
MVH=32.1504
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7++
y8++−H2O
b9++−H2O
b10++
y7
y6
y15++
y8
b9++−H2O

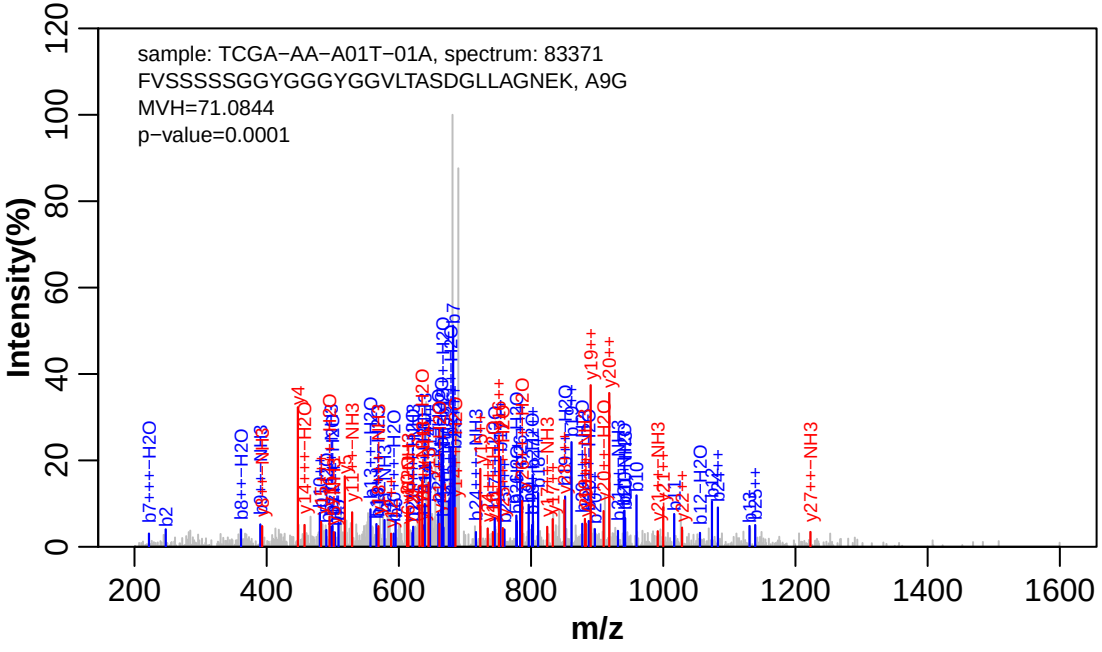

sample: TCGA−AA−A01T−01A, spectrum: 36937
EVVDGSPAAASTLSELTAEVNNFR, L23F
MVH=48.2523
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y18++
b15
b3/2
b11/1
b9−NH3
b9−H2O
b10−H2O
b19++−H2O
y22++−H2O
y23++−H2O
b23++−H2O
b23++−NH3
b9−NH3
b15−H2O
b15−NH3
b7−NH3
b7−H2O
b5−NH3
b5−H2O
y7−NH3
y7−H2O
y8−NH3
y8−H2O
y9−NH3
y9−H2O
y10−NH3
y10−H2O
y11−NH3
y11−H2O
y12−NH3
y12−H2O
y13−NH3
y13−H2O
y14−NH3
y14−H2O
y15−NH3
y15−H2O
y16−NH3
y16−H2O
y17−NH3
y17−H2O
y19++−NH3
y19++−H2O
y20++−NH3
y20++−H2O
y21++−NH3
y21++−H2O
b23++−NH3
b23++−H2O

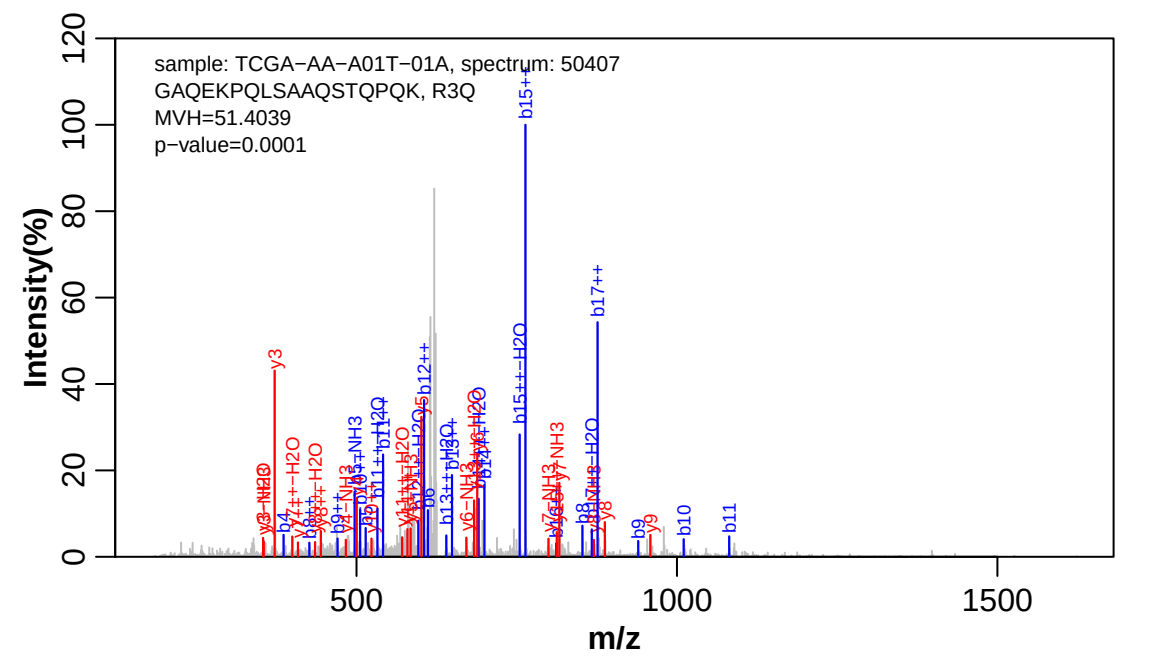

sample: TCGA−AA−A01T−01A, spectrum: 16576
FFGSLPDSWAR, S11R
MVH=30.2691
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y8
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
b6−NH3
y6
y7
y8
y9

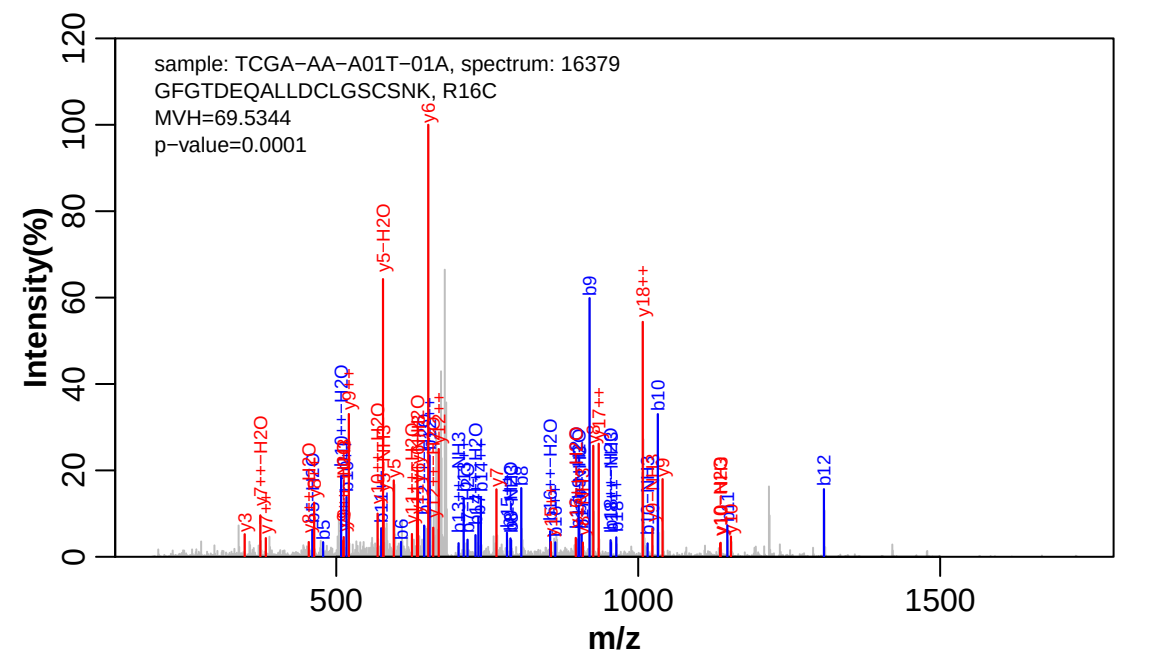

sample: TCGA−AA−A01T−01A, spectrum: 33010
FQLGNSGPNSTLK, S4G
MVH=42.4990
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b2−NH3
y3
b3
y4
b5
y5−H2O
y5−NH3
b6−H2O
b6−NH3
y6
y7
y8
y9
y10
y10−NH3
y11
y11−NH3
b12

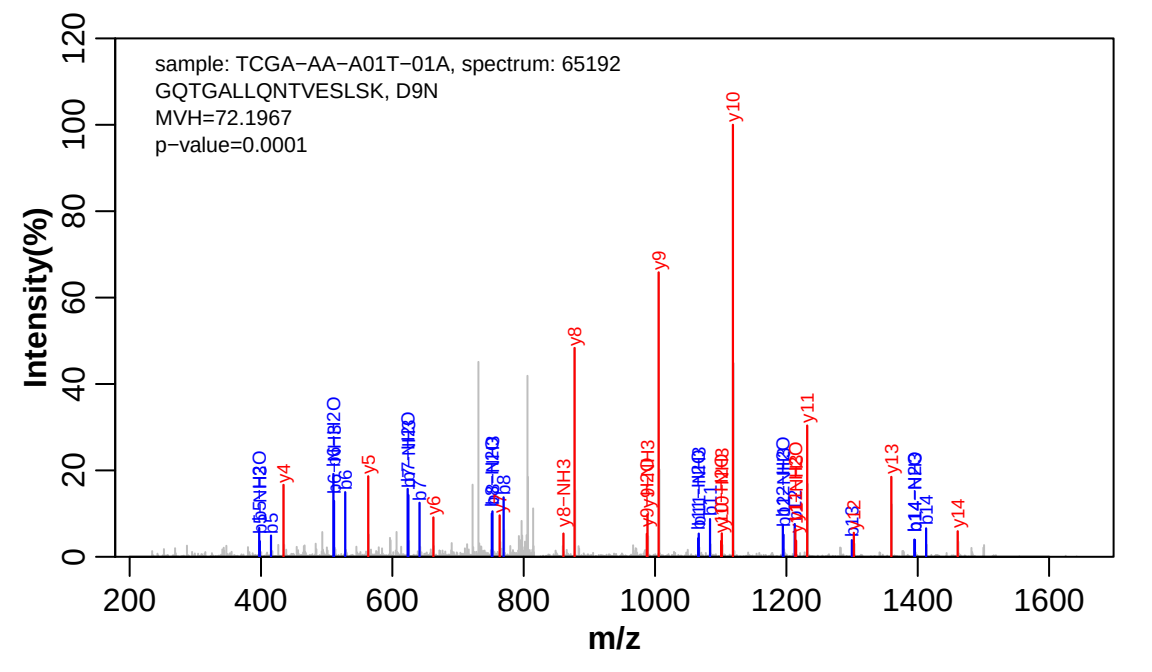

sample: TCGA−AA−A01T−01A, spectrum: 65172
FQPQSADFLDLTNPK, P6A
MVH=57.4399
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
y11
y13

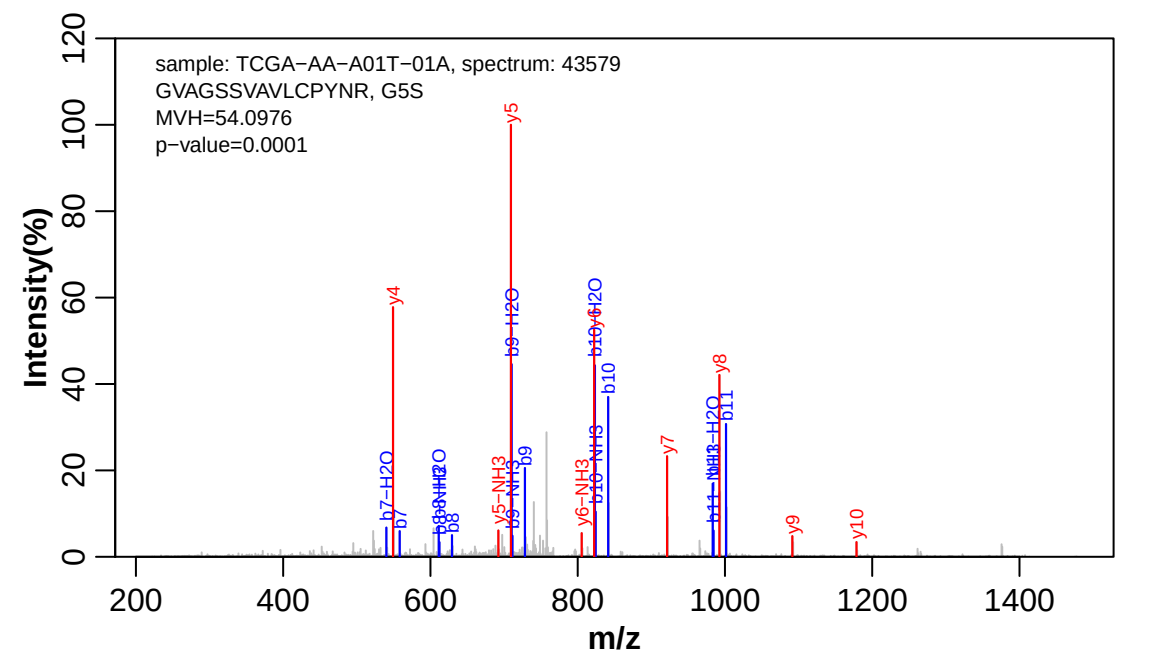

sample: TCGA−AA−A01T−01A, spectrum: 52090
FTCTLVAQK, P2T
MVH=51.3022
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
y3
b3−H2O
b3
y4
b4−H2O
b4
y5
b5−H2O
b5
y6
b6−H2O
b6
b7−H2O
b7
y7
y8

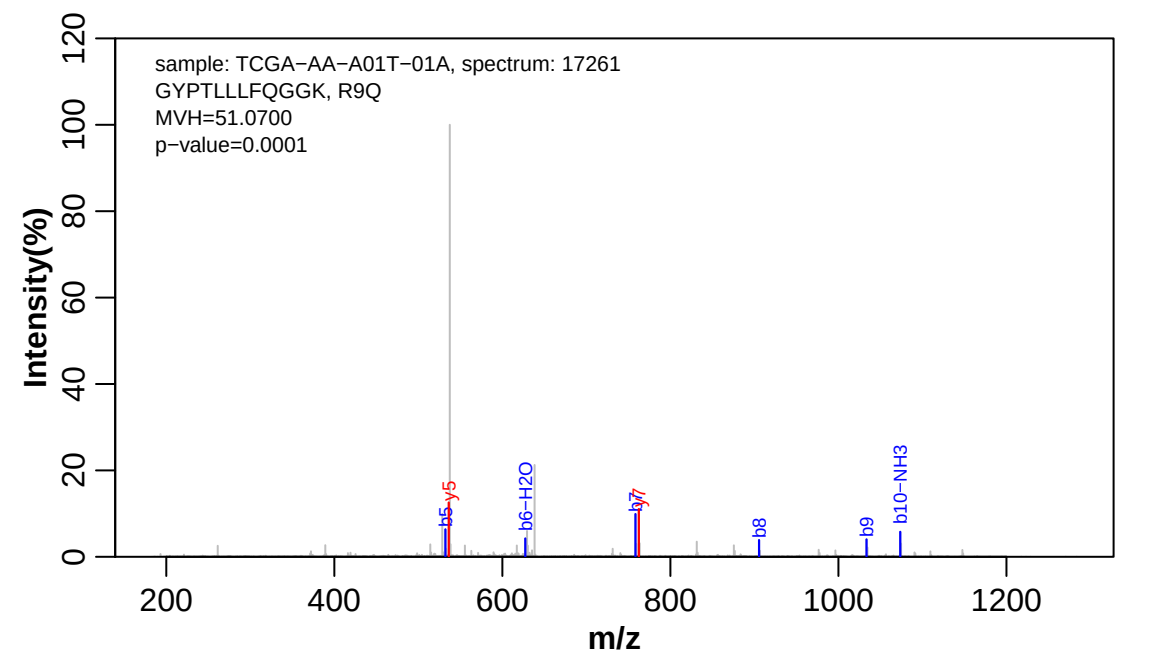

sample: TCGA−AA−A01T−01A, spectrum: 83371
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=71.0844
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

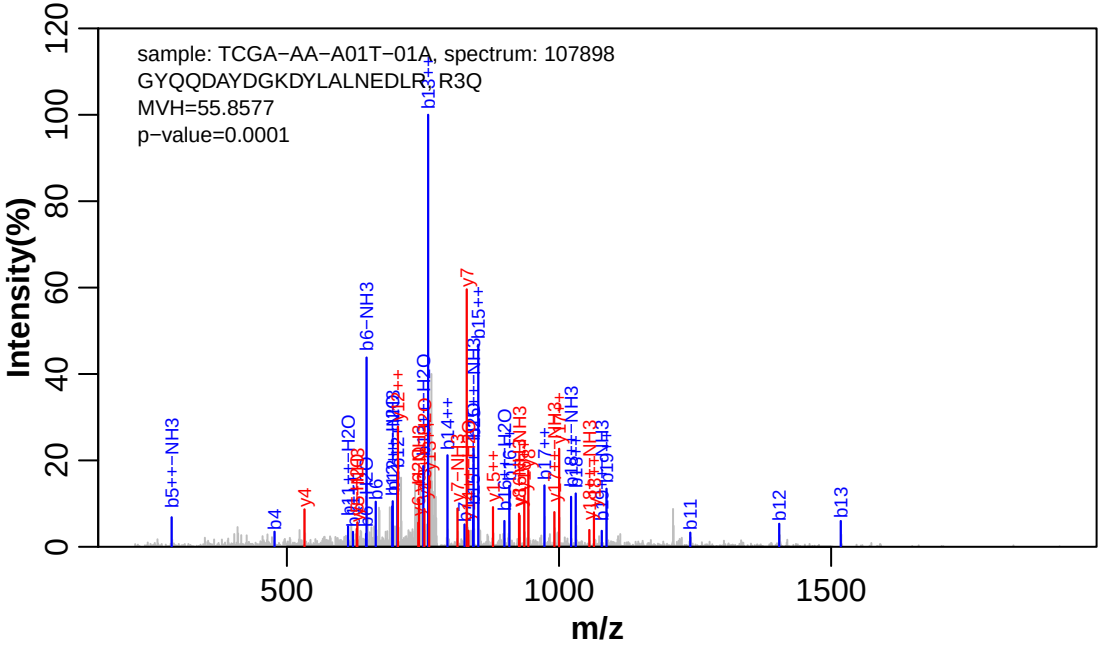

sample: TCGA−AA−A01T−01A, spectrum: 50407
GAQEKPQLSAAQSTQPQK, R3Q
MVH=51.4039
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
y3
b17++
b15++−H2O
b12++
b11
b10
b9
y9
y8
b8
b7
b6
b5
b4
y7−NH3
y6−NH3
y5−NH3
y4−NH3
y3−NH3
b11++−H2O
b13++−H2O
b14++−H2O
b7++−H2O
b8++−H2O
y7++−H2O
y8++−H2O
b7++−NH3
b8++−NH3
y7++−NH3
y8++−NH3

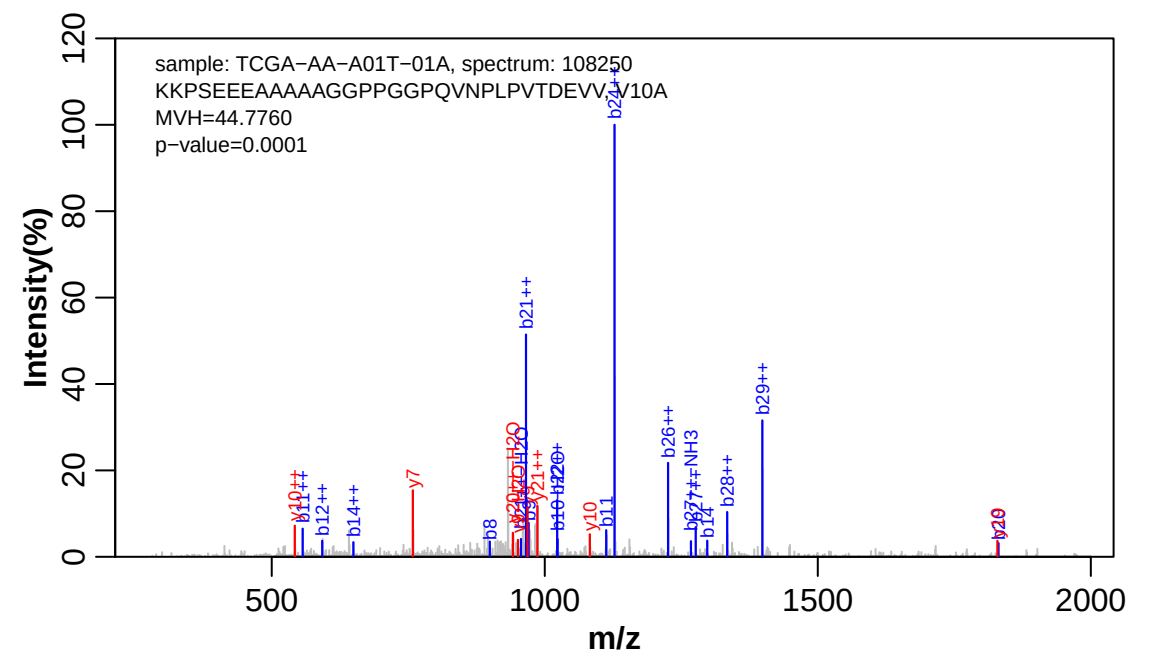

sample: TCGA−AA−A01T−01A, spectrum: 16379
GFGTDEQALLDCLGSCSNK, R16C
MVH=69.5344
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y18++
b9
b10
b12
y3
y7++−H2O
y5
b6
y10
y10−NH3
y11
y9
b10−NH3

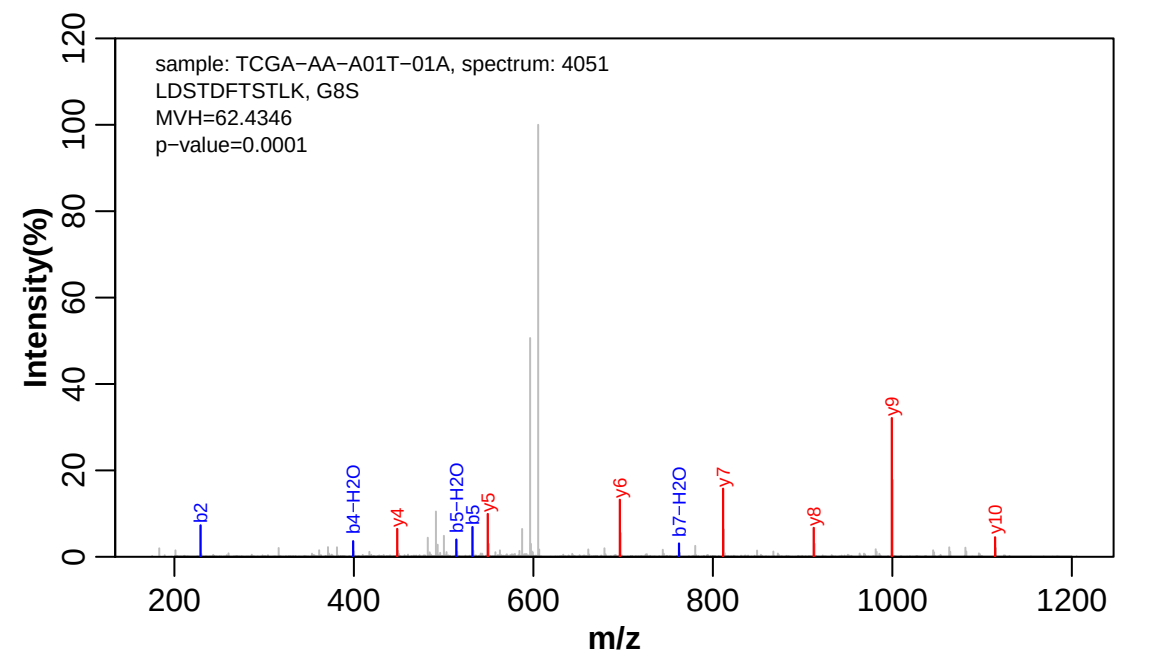

sample: TCGA−AA−A01T−01A, spectrum: 65192
GQTGALLQNTVESLSK, D9N
MVH=72.1967
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y11
y13
y14
y4
y5
y6
y8−NH3

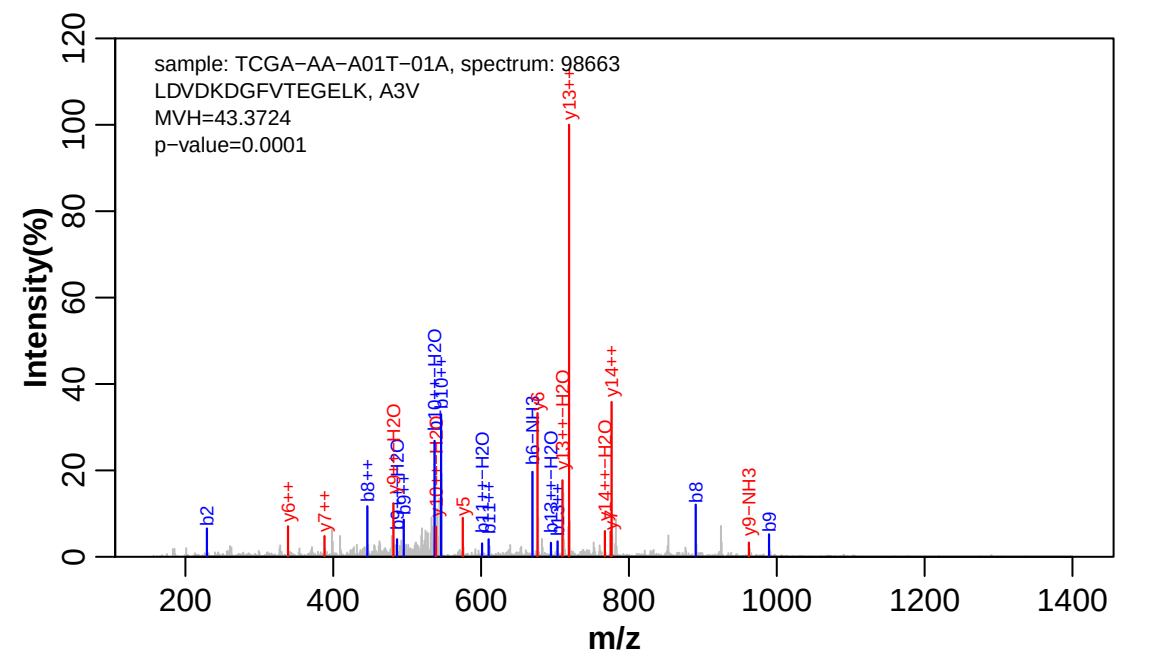

sample: TCGA−AA−A01T−01A, spectrum: 43579
GVAGSSVAVLCPYNR, G5S
MVH=54.0976
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y8
b11
y7
b7−H2O
b7
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y9
y10

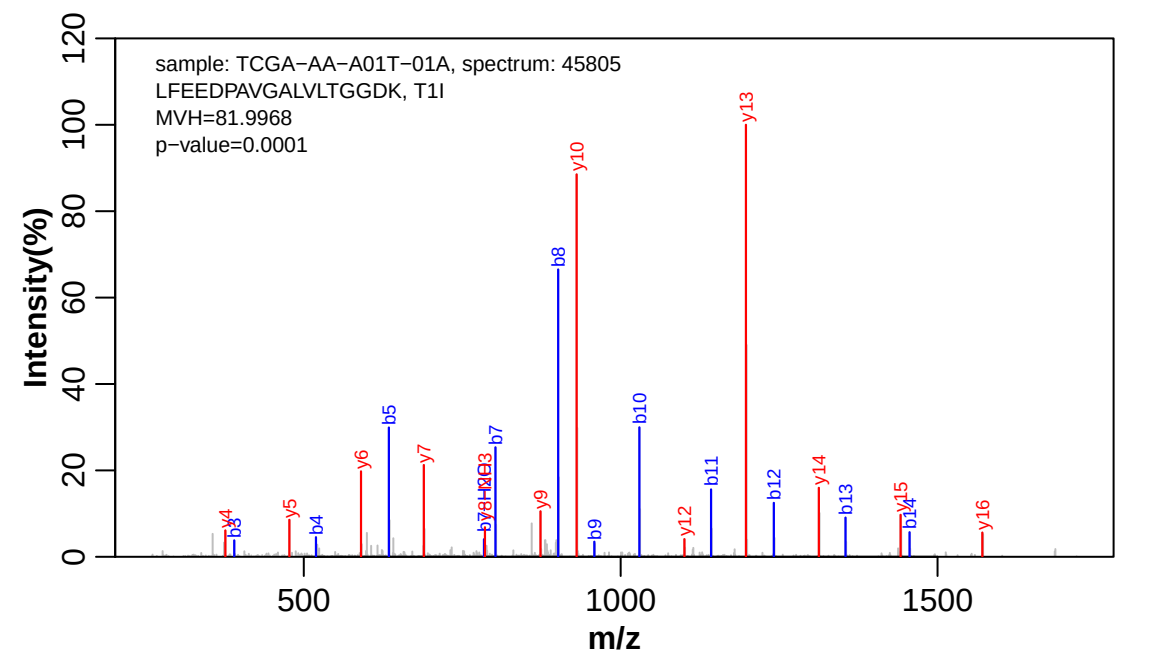

sample: TCGA−AA−A01T−01A, spectrum: 17261
GYPTLLLFQGGK, R9Q
MVH=51.0700
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5−y5
b6−H2O
b7
b8
b9
b10−NH3

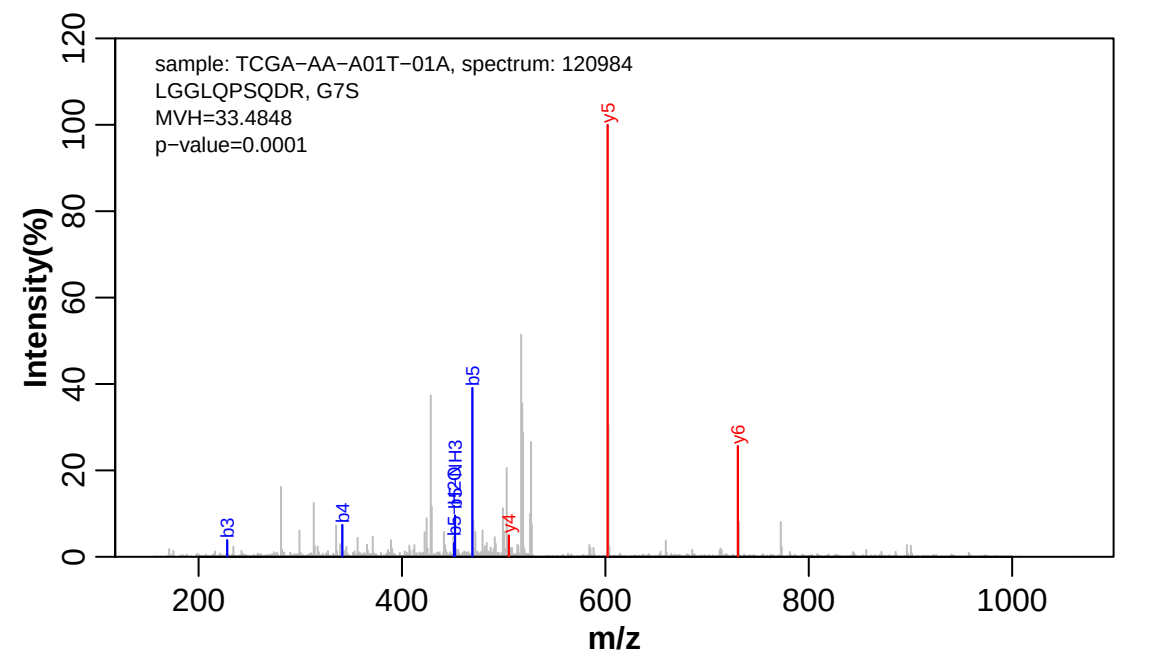

sample: TCGA−AA−A01T−01A, spectrum: 107898
GYQQDAYDGKDYLALNEDLRSR3Q
MVH=55.8577
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
b4
y4
b6−NH3
b15++
y7
b13++
b11
b12
b13

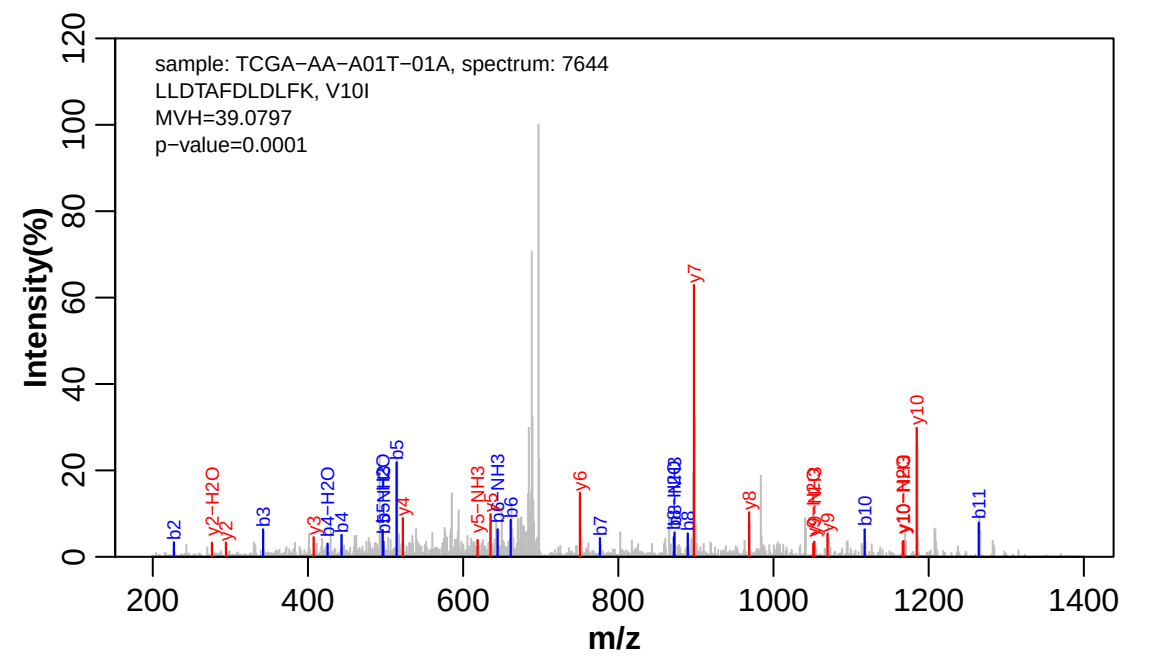

sample: TCGA−AA−A01T−01A, spectrum: 108250
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=44.7760
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++
y7
b8
y10
b11
b26++
b27++−NH3
b14
b28++
b29++
b29

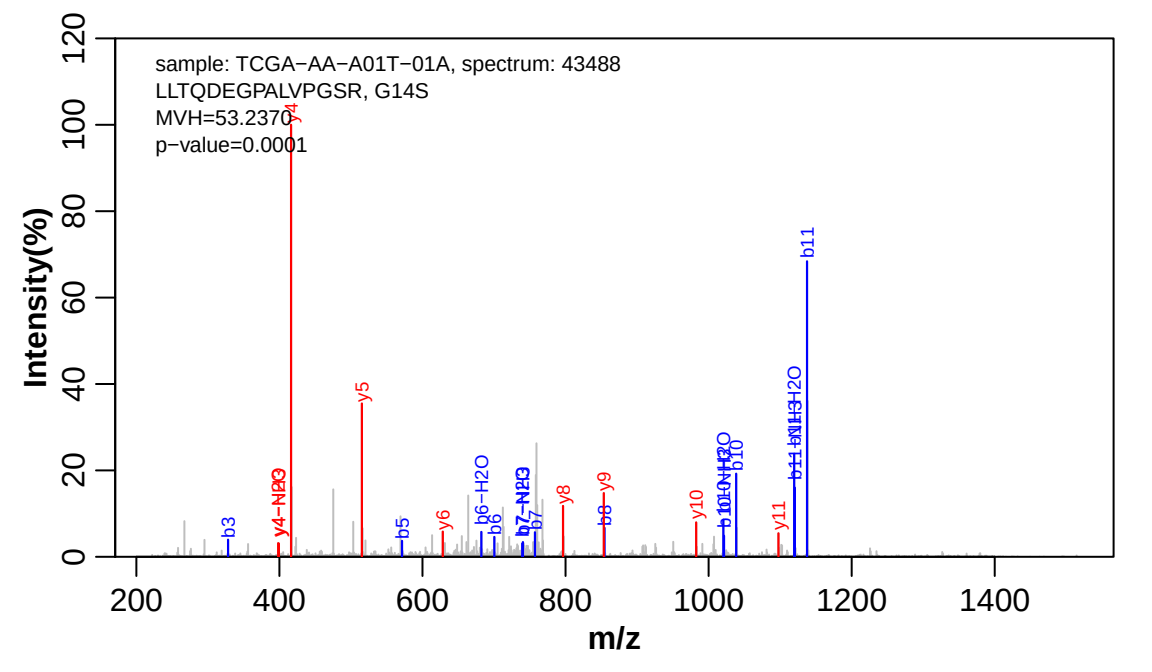

sample: TCGA−AA−A01T−01A, spectrum: 4051
LDSTDFTSTLK, G8S
MVH=62.4346
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
y7
y8
y9
y10

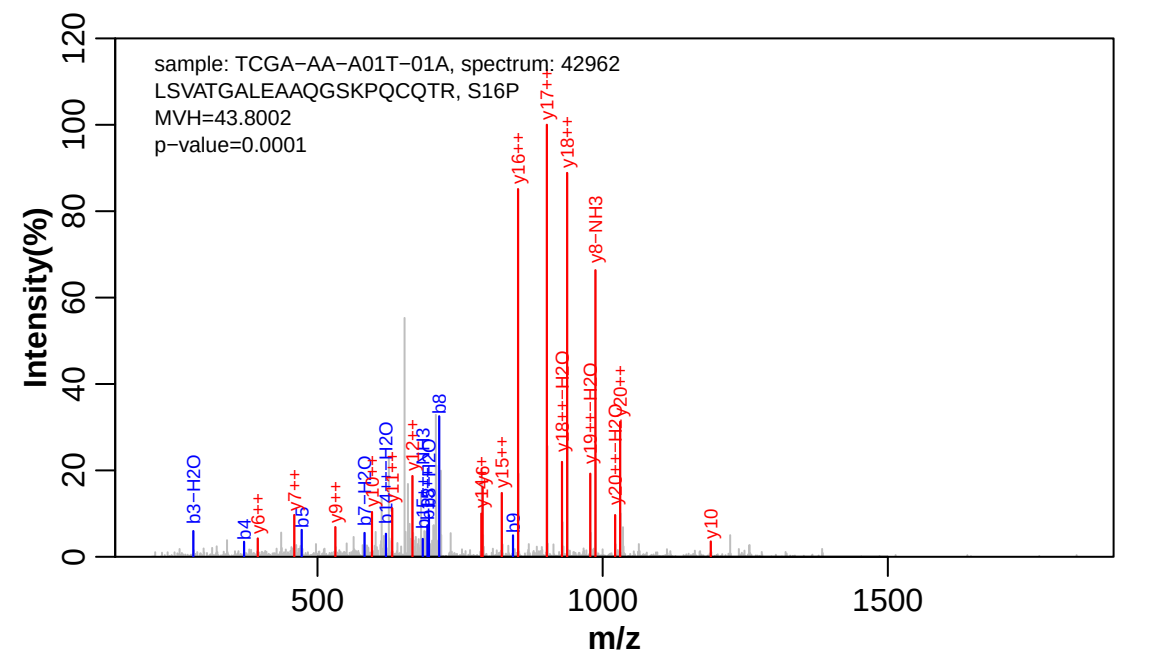

sample: TCGA−AA−A01T−01A, spectrum: 98663
LDVDKDGFVTEGELK, A3V
MVH=43.3724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y6++
y7++
b8++
y13++
y14++
b8
y9−NH3
b9
y5
b6−NH3
y6
y13++−H2O
y14++−H2O

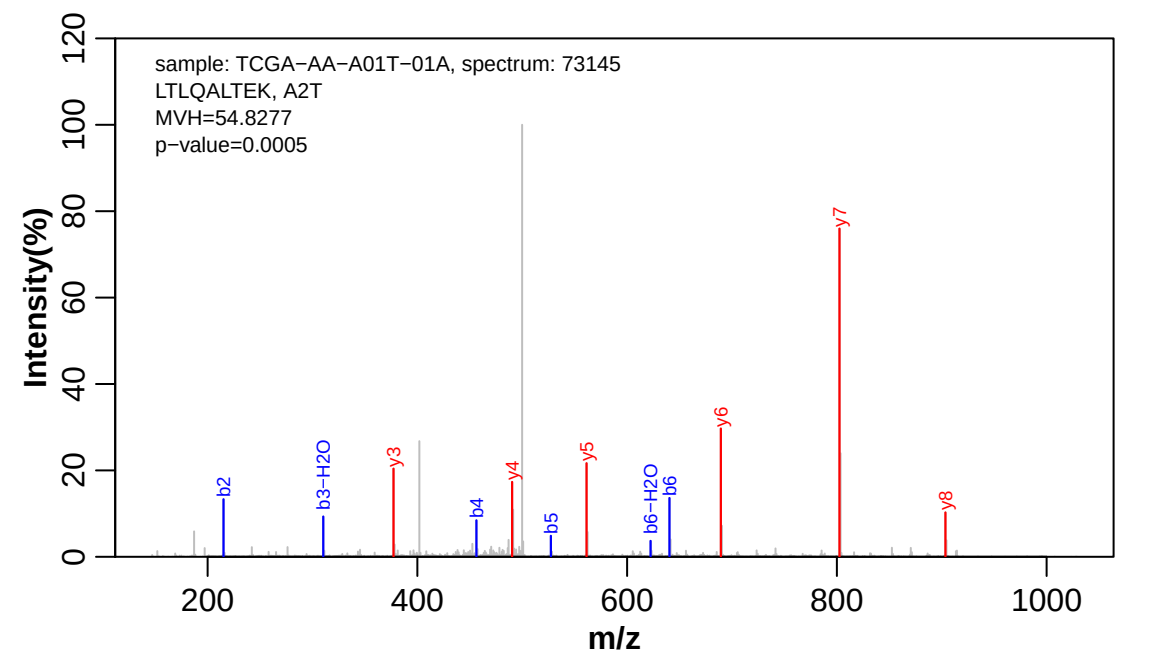

sample: TCGA−AA−A01T−01A, spectrum: 45805
LFEEDPAVGALVLTGGDK, T1I
MVH=81.9968
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7-H2O
b7-NH3
b7
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

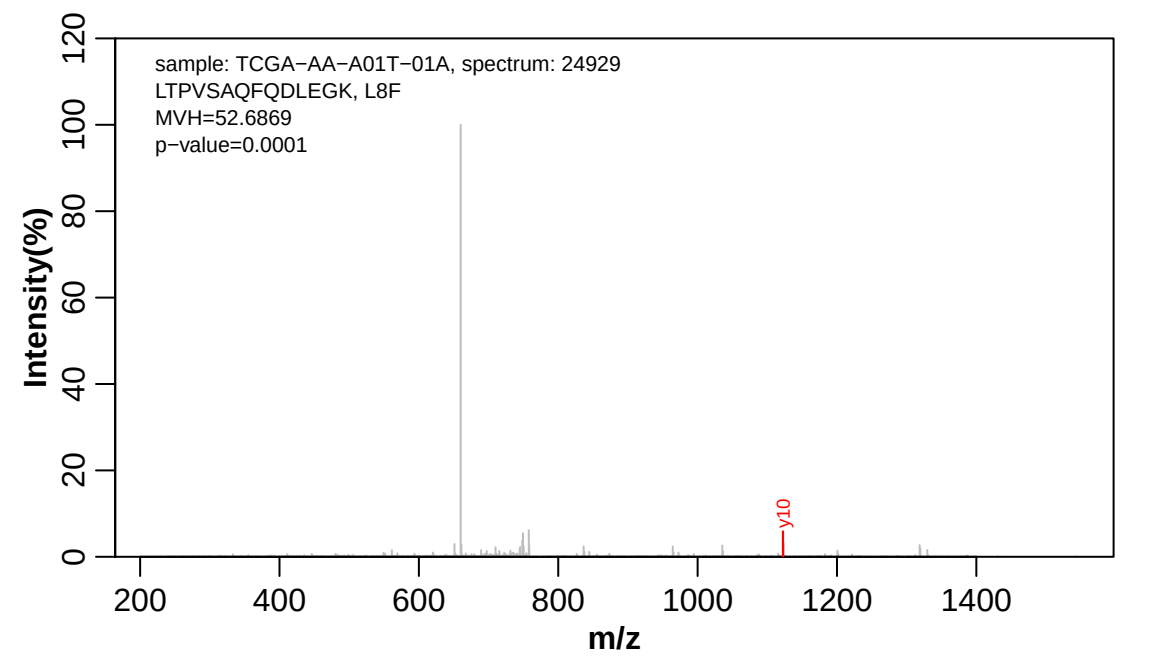

sample: TCGA−AA−A01T−01A, spectrum: 120984
LGGLQPSQDR, G7S
MVH=33.4848
p−value=0.0001
Intensity(%)
m/z
y5
y6
b5
b4
b3
y4
b5−NH3
0
20
40
60
80
100
120
200
400
600
800
1000

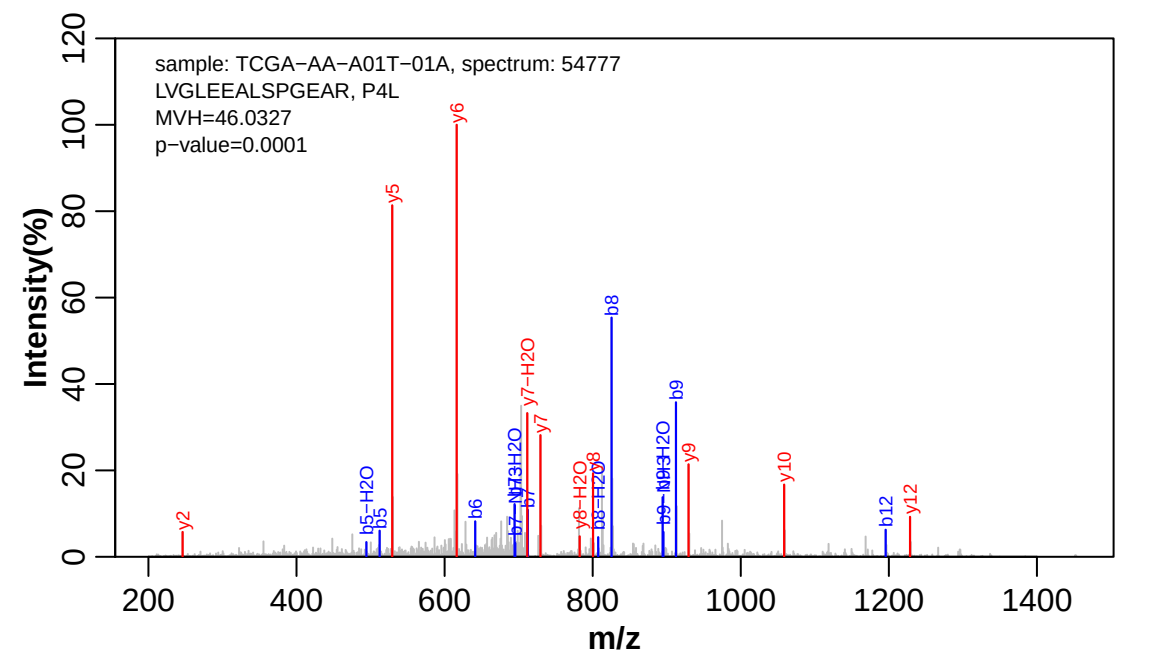

sample: TCGA−AA−A01T−01A, spectrum: 7644
LLDTAFDLDLFK, V10I
MVH=39.0797
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2−H2O
y2
b3
y3
b4−H2O
b4
y4
b5
y5−NH3
b6
y6
b7
y7
y8
b10
y10
b11

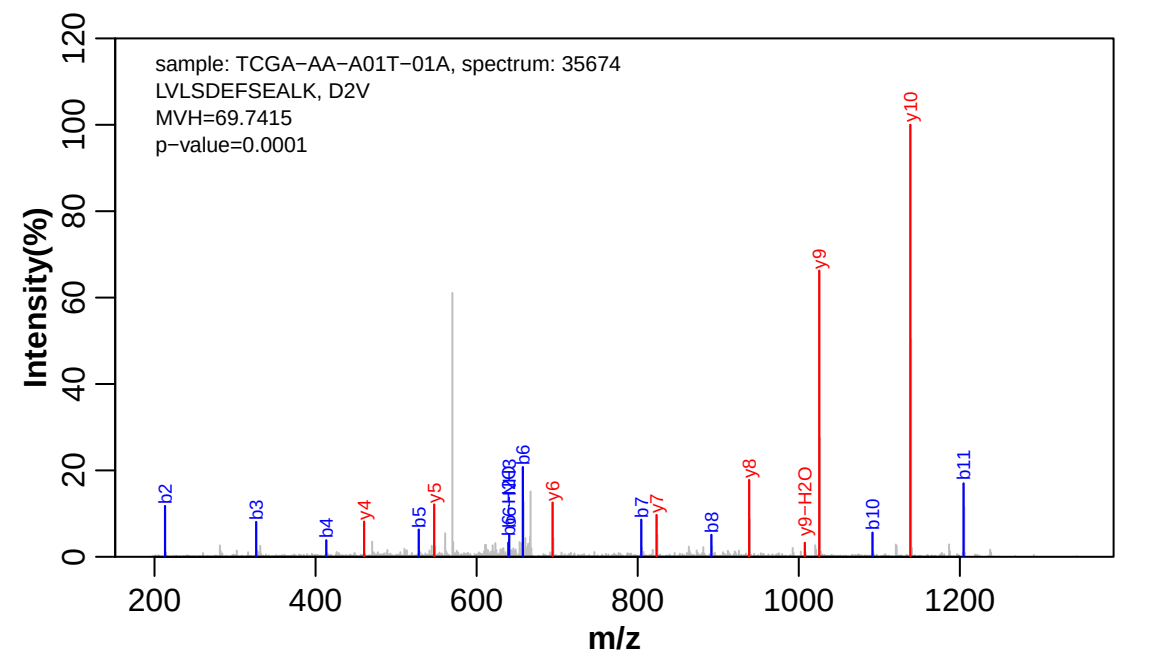

sample: TCGA−AA−A01T−01A, spectrum: 43488
LLTQDEGPALVPGSR, G14S
MVH=53.2370
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y4
y4−NH3
y4−H2O
y5
b5
y6
b6−H2O
b6
b7−NH3
b7
y8
b8
y9
y10
b10
y11
b11
b11−H2O

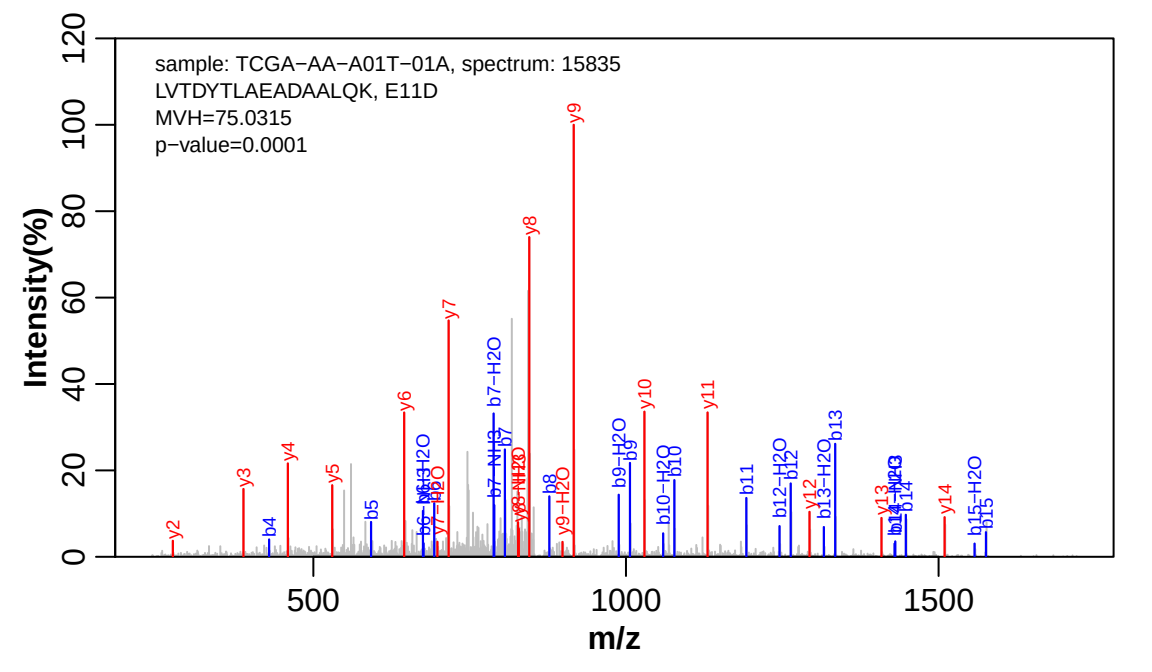

sample: TCGA−AA−A01T−01A, spectrum: 42962
LSVATGALEAAQGSKPQCQTR, S16P
MVH=43.8002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4
y6++
b5
y7++
y9++
b7−H2O
y10++
b14++−H2O
y11++
y12++
b8
y14+
y15++
b9
y16++
y17++
y18++
y18++−H2O
y19++−H2O
y8−NH3
y20++−H2O
y20++
y10

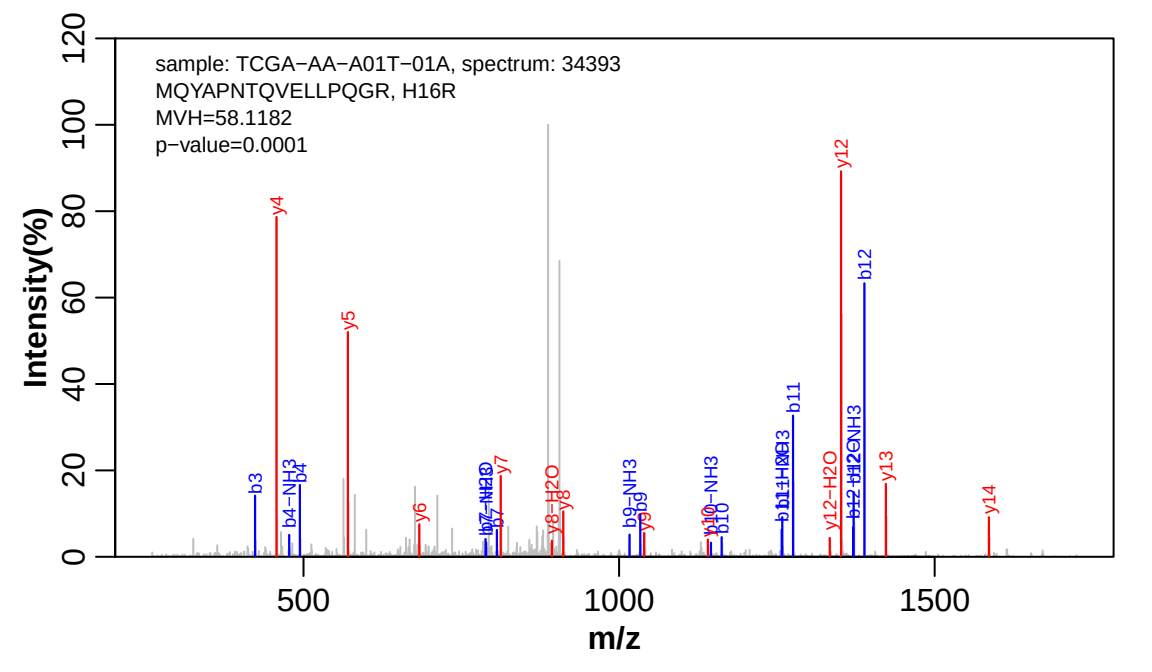

sample: TCGA−AA−A01T−01A, spectrum: 73145
LTLQALTEK, A2T
MVH=54.8277
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
y8

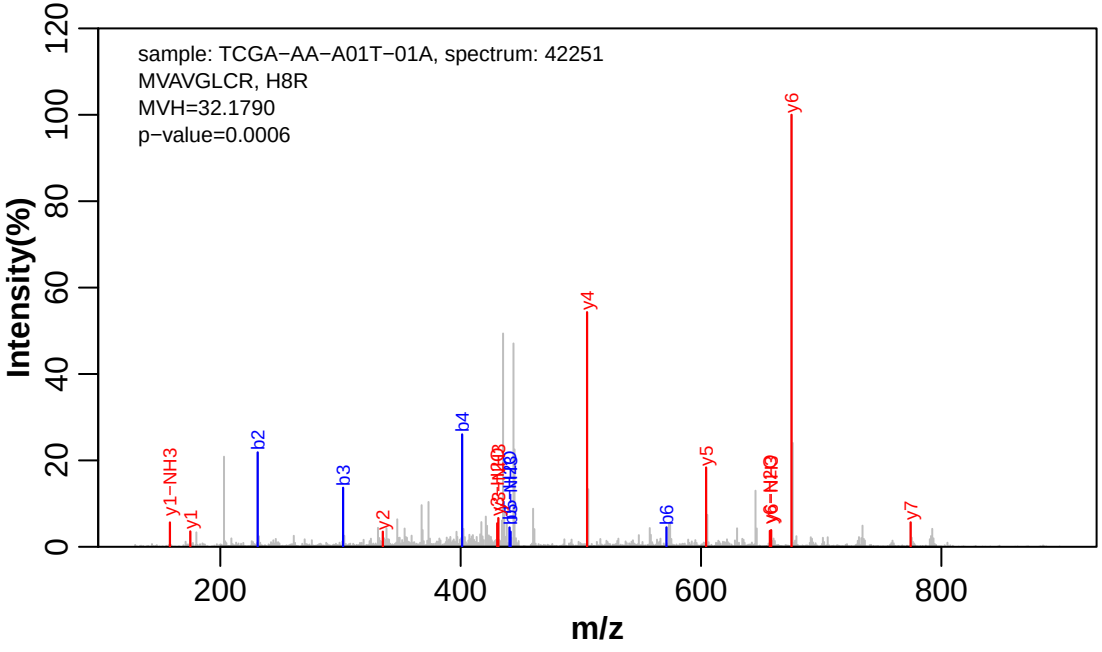

sample: TCGA−AA−A01T−01A, spectrum: 24929
LTPVSAQFQDLEGK, L8F
MVH=52.6869
p−value=0.0001
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

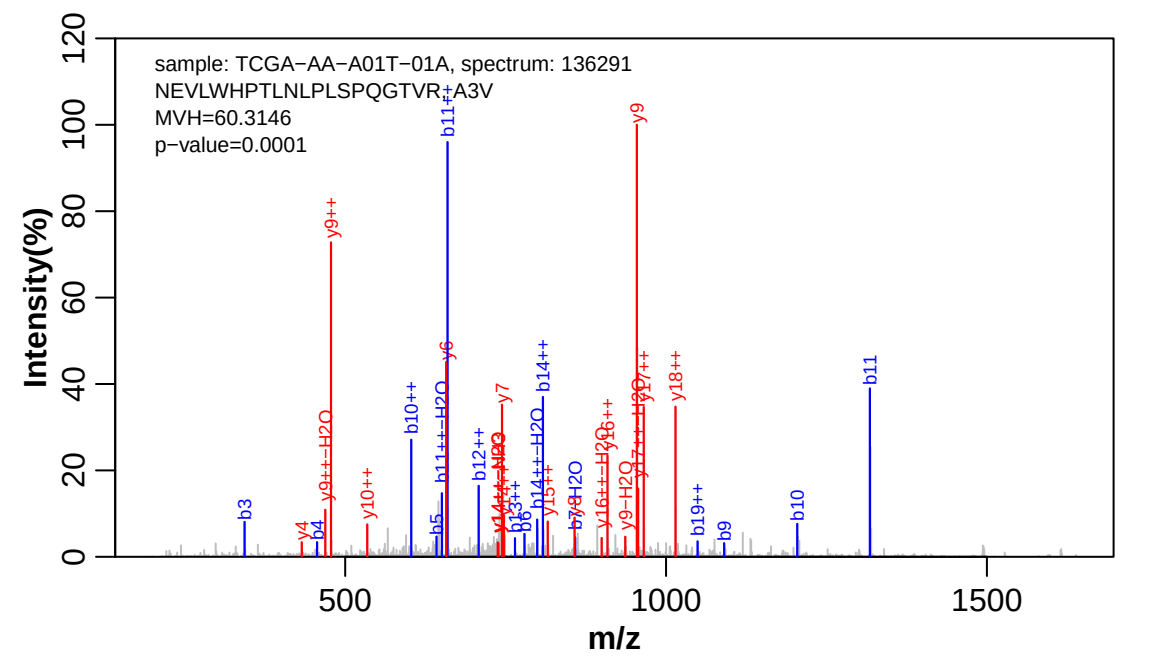

sample: TCGA−AA−A01T−01A, spectrum: 54777
LVGLEEALSPGEAR, P4L
MVH=46.0327
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b5−H2O
b5
y5
b6
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7
y8−H2O
b8−H2O
b8
b9−NH3
b9−H2O
b9
y9
y10
b12
y12

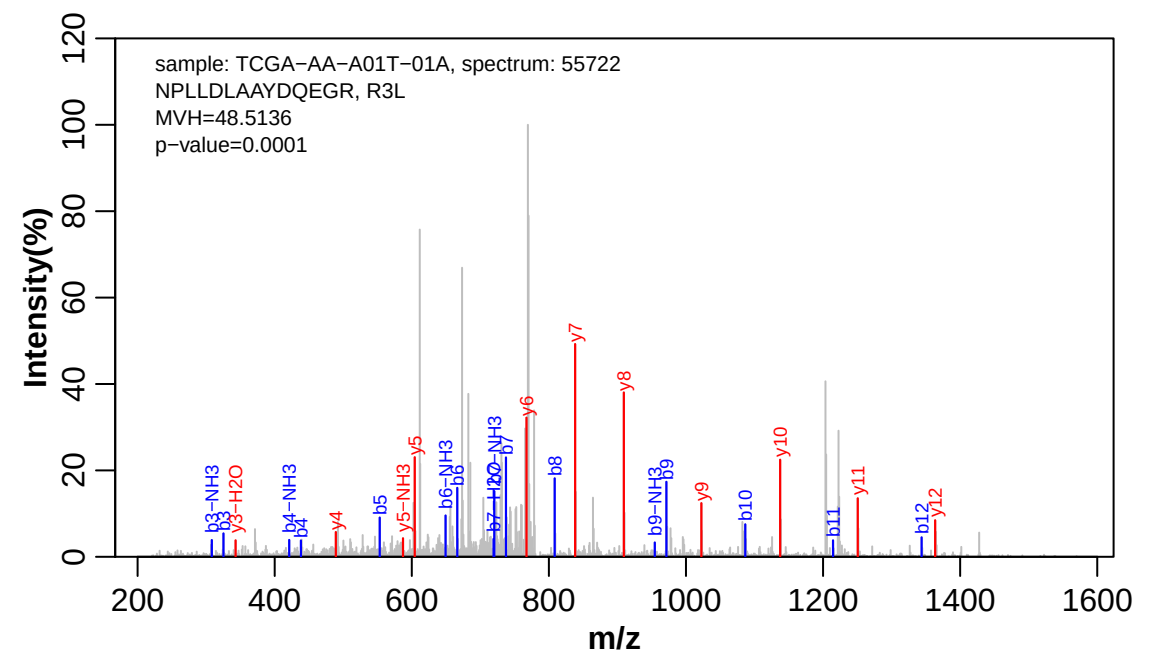

sample: TCGA−AA−A01T−01A, spectrum: 35674
LVLSDEFSEALK, D2V
MVH=69.7415
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
b4
y4
b5
y5
b6
y6
b7
y7
y8
b8
y9−H2O
y9
b10
y10
b11

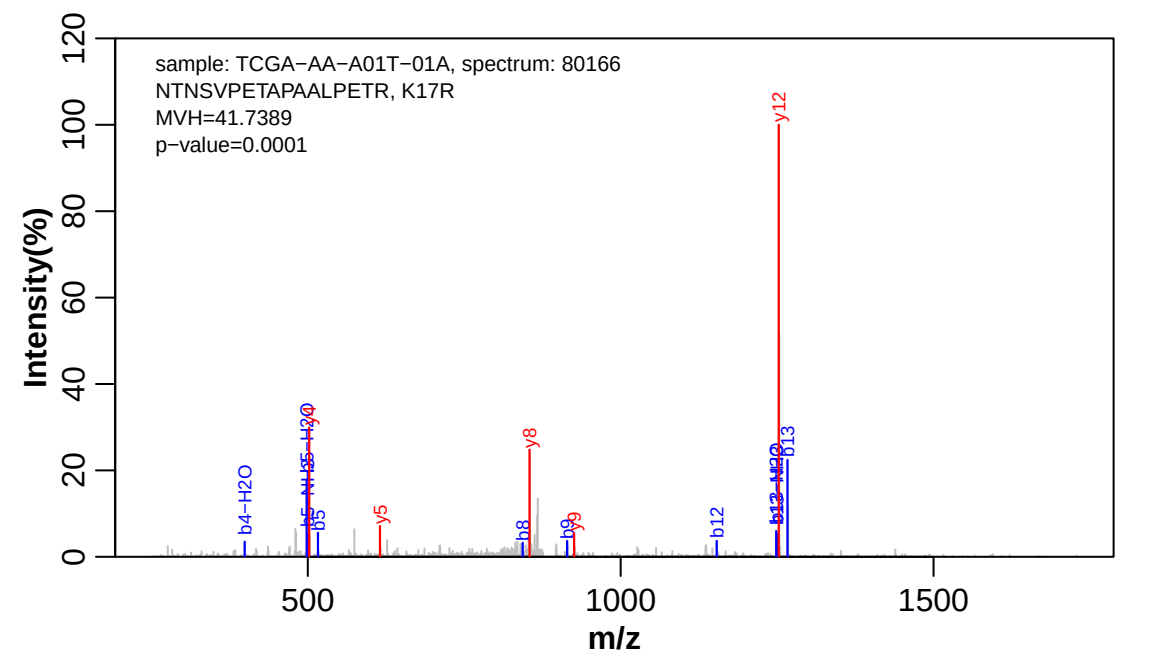

sample: TCGA−AA−A01T−01A, spectrum: 15835
LVTDYTLAEADAALQK, E11D
MVH=75.0315
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4
y4
y5
b5
y6
y7
y7−H2O
b7
b7−H2O
y8
y9
y9−H2O
b8
b9
b9−H2O
y10
b10
b10−H2O
y11
b11
b12
b12−H2O
y12
b13
b13−H2O
y13
y14
b15
b15−H2O

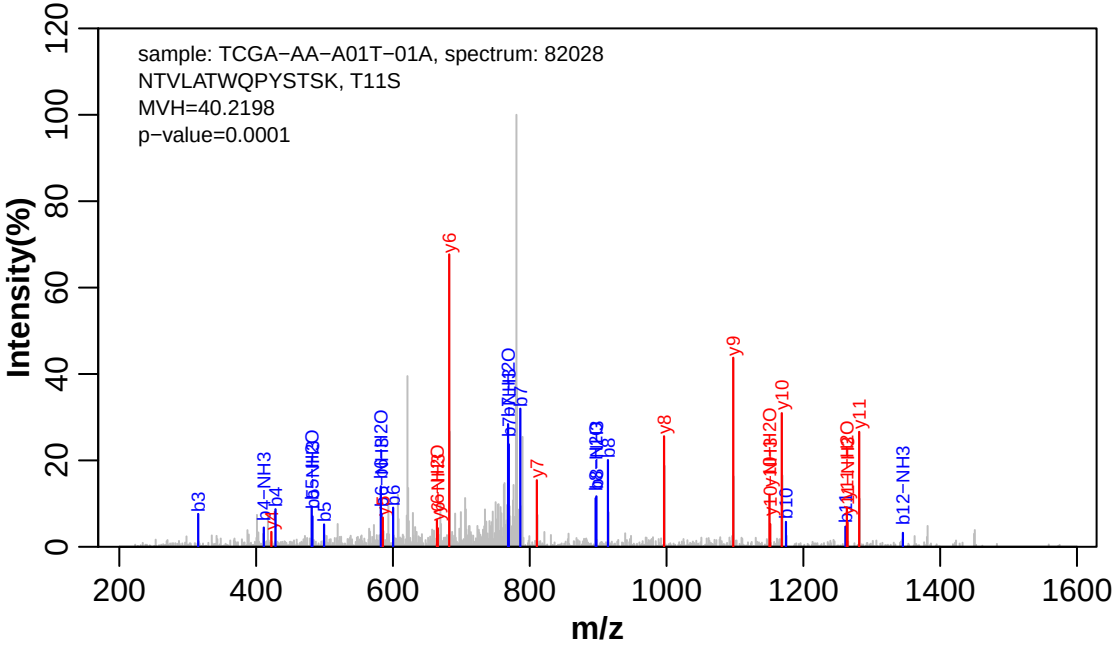

sample: TCGA−AA−A01T−01A, spectrum: 34393
MQYAPNTQVELLPQGR, H16R
MVH=58.1182
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y8−H2O
y9
y10−NH3
y12
y12−H2O
y13
y14
b3
b4
b4−NH3
b9−NH3
b10
b11
b12
b12−NH3

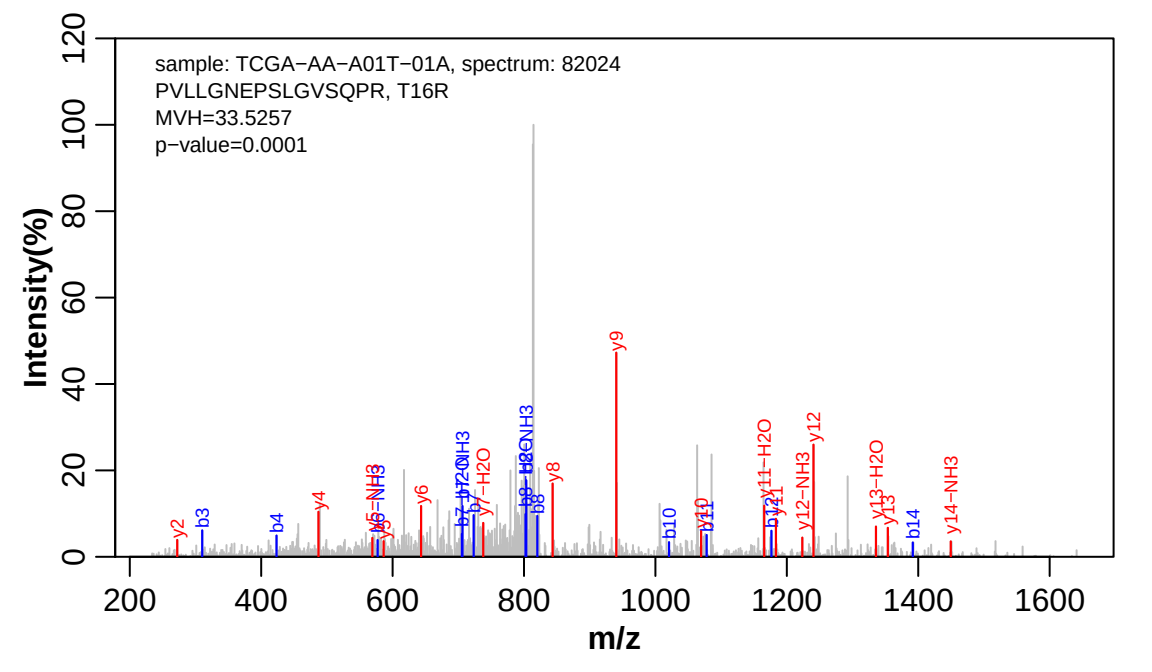

sample: TCGA−AA−A01T−01A, spectrum: 42251
MVAVGLCR, H8R
MVH=32.1790
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y1−NH3
y1
b2
b3
y2
b4
y4
b6
y5
y6
y7

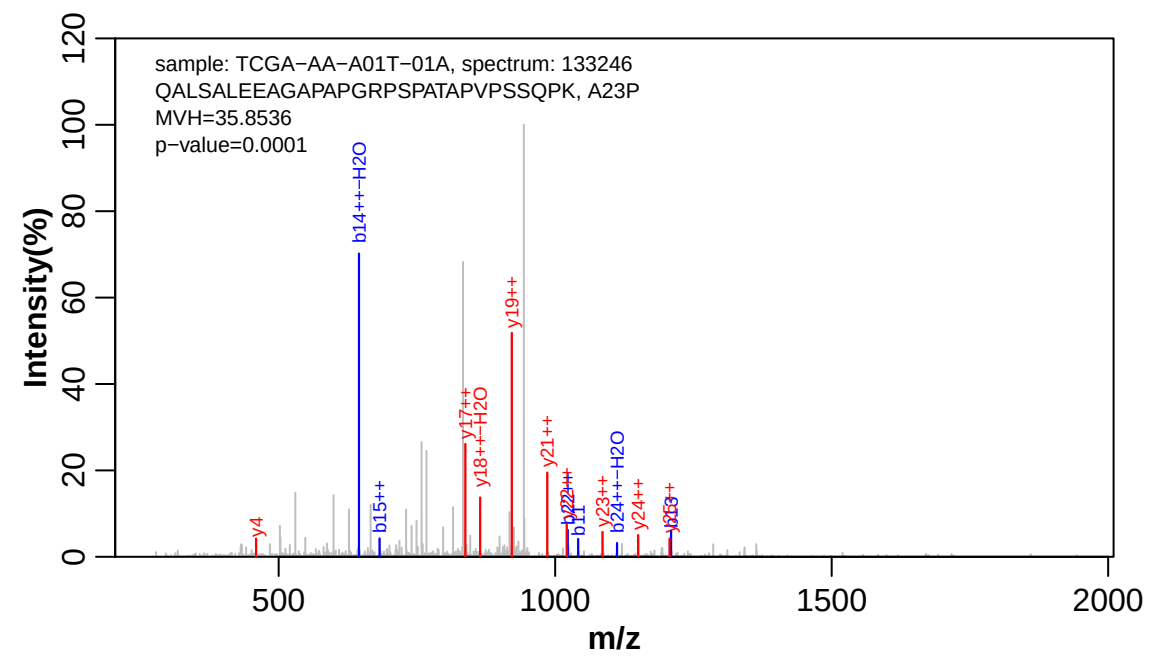

sample: TCGA−AA−A01T−01A, spectrum: 136291
NEVLWHPTLNLPLSPQGTVR+A3V
MVH=60.3146
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
y9++−H2O
y10++
b5
b10++
b11++−H2O
b11++
y6
b12++
y7
b13++
b6
b14++−H2O
b14++
y15++
b7
y16++−H2O
y16++
y9−H2O
y17++−H2O
y17++
y9++
y18++
b11
b19++
b9
b10

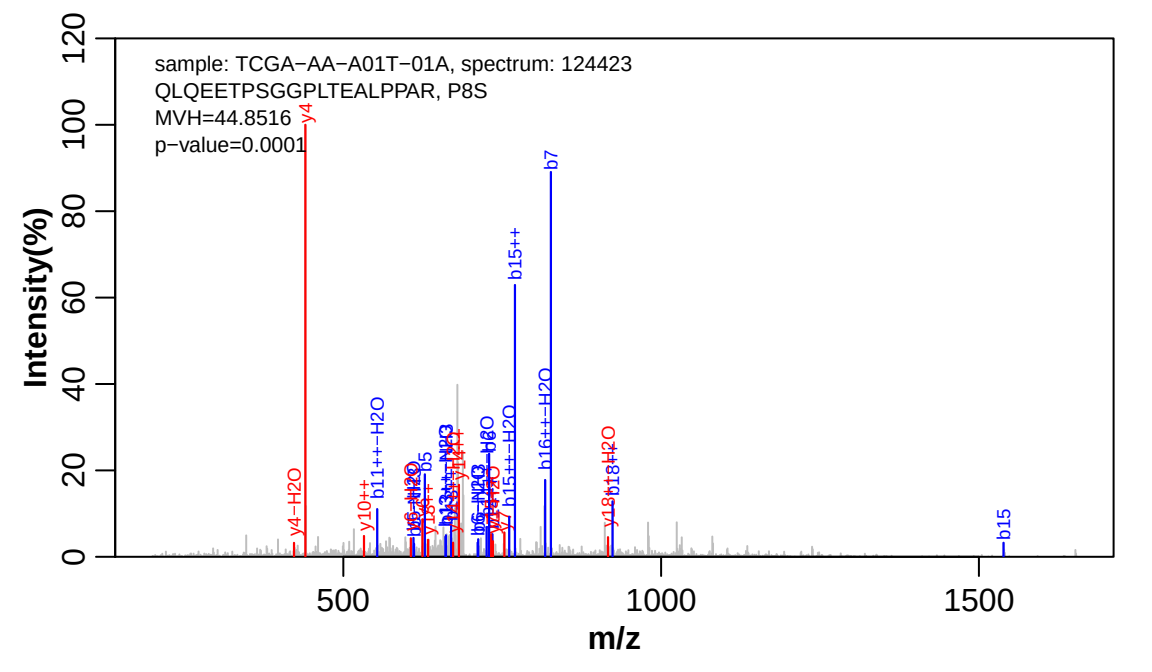

sample: TCGA−AA−A01T−01A, spectrum: 55722
NPLLDLAAYDQEGR, R3L
MVH=48.5136
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−NH3
b3
y3−H2O
b4−NH3
b4
y4
b5
y5−NH3
y5
b6−NH3
b6
b7−H2O−NH3
b7
y6
y7
b8
y8
b9−NH3
b9
y9
b10
y10
b11
y11
b12
y12

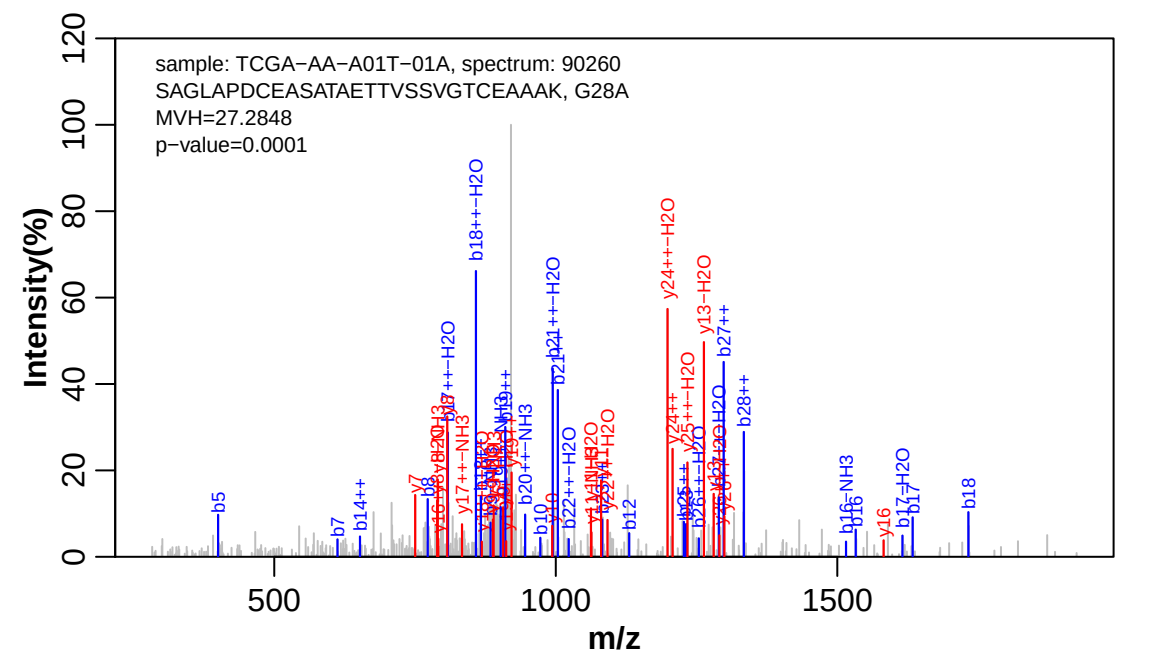

sample: TCGA−AA−A01T−01A, spectrum: 80166
NTNSVPETAPAALPETR, K17R
MVH=41.7389
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
b4−H2O
y5
b8
y9
b12
b13

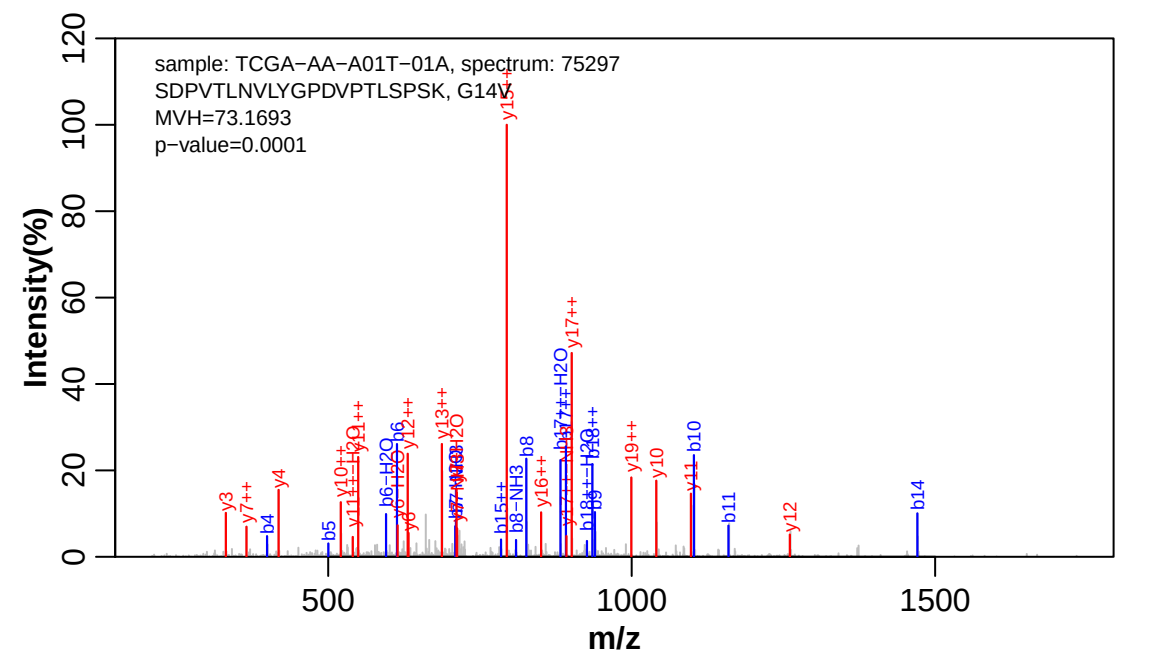

sample: TCGA−AA−A01T−01A, spectrum: 82028
NTVLATWQPYSTSK, T11S
MVH=40.2198
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4
b5
b6
b7
b8
b9
b10
b11
b12−NH3
y6
y7
y8
y9
y10
y11

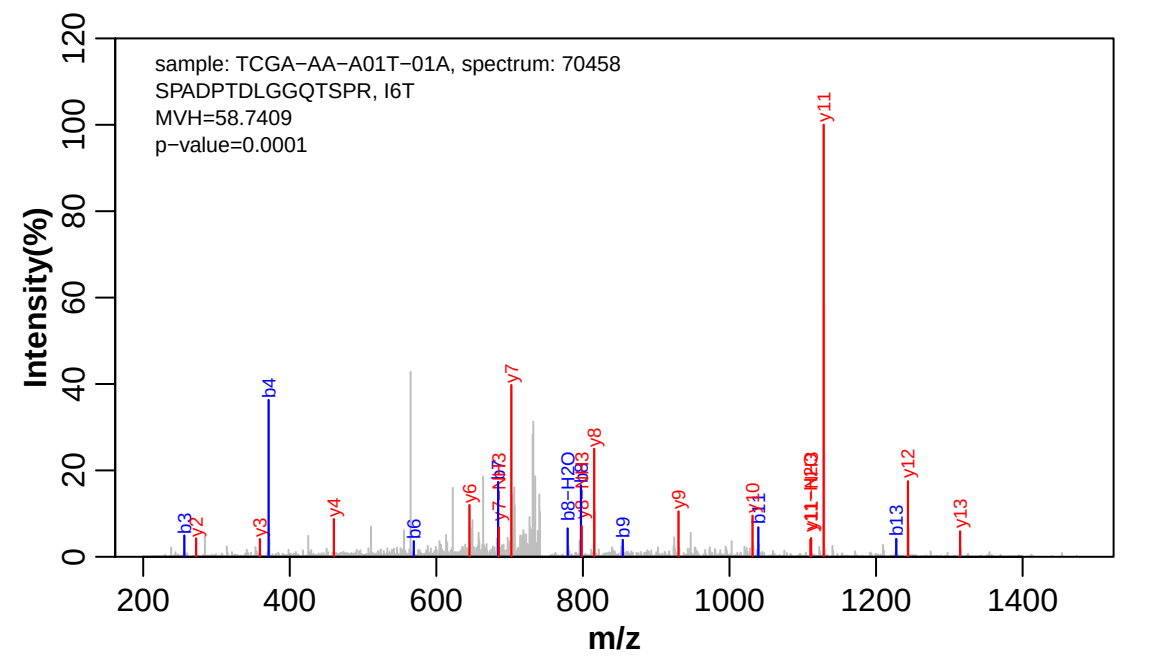

sample: TCGA−AA−A01T−01A, spectrum: 82024
PVLLGNEPSLGVSQPR, T16R
MVH=33.5257
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4
y4
y5−NH3
y5
y6
b7−H2O
b7−NH3
y7−H2O
b8−H2O
b8−NH3
b8
y8
y9
b10
b10
y11−H2O
y11
y12−NH3
y12
y13−H2O
y13
b14
y14−NH3

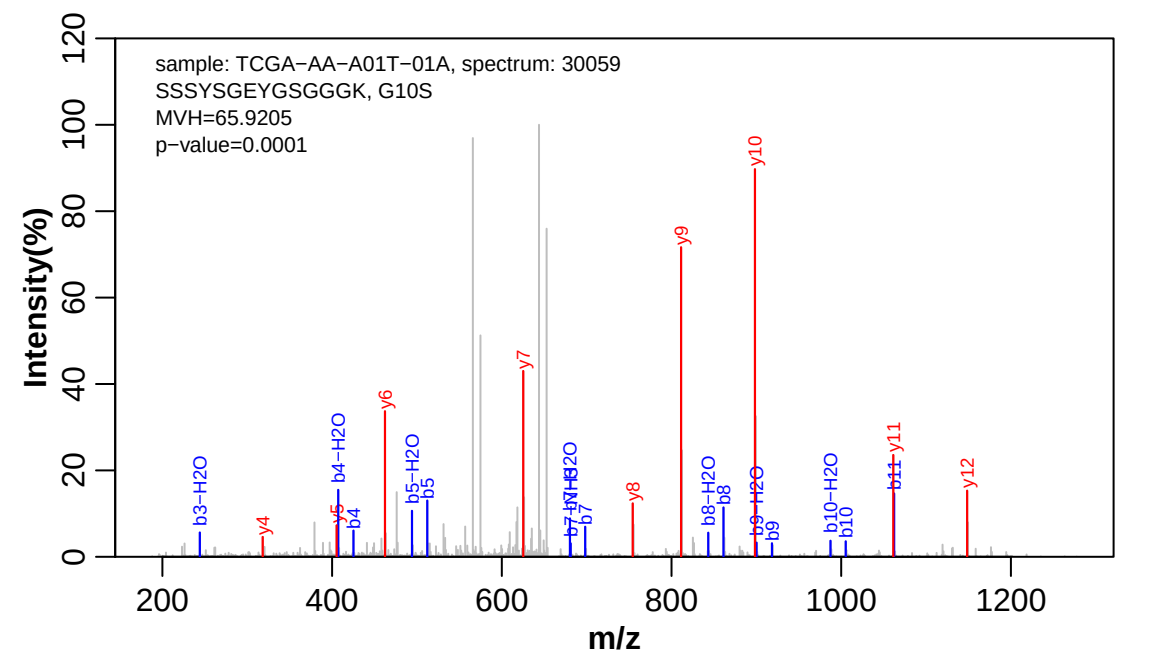

sample: TCGA−AA−A01T−01A, spectrum: 133246
QALSALEEAGAPAPGRPSPATAPVPSSQPK, A23P
MVH=35.8536
p−value=0.0001
b14++−H2O
y19++
y17++
y18++−H2O
y21++
b15++
y4
b11
y23++
b24++−H2O
y24++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

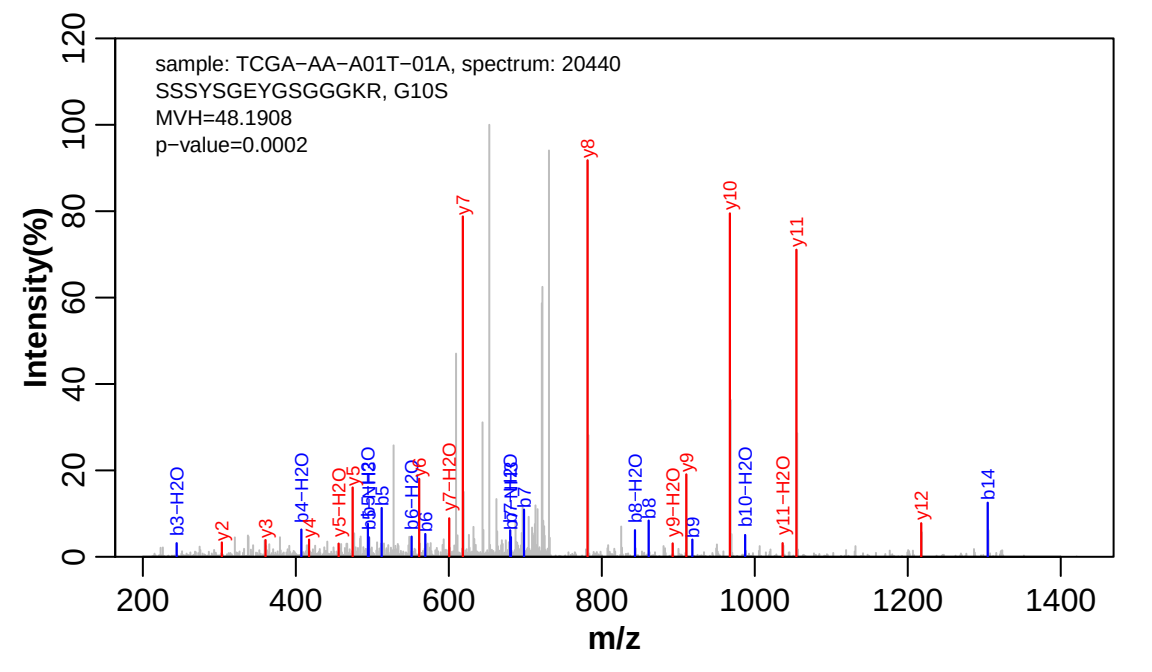

sample: TCGA−AA−A01T−01A, spectrum: 124423
QLQEETPSGGPLTEALPPAR, P8S
MVH=44.8516
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b7
b15++
y4−H2O
b11++−H2O
y10++
b16++−H2O
y18
b18−H2O
b15

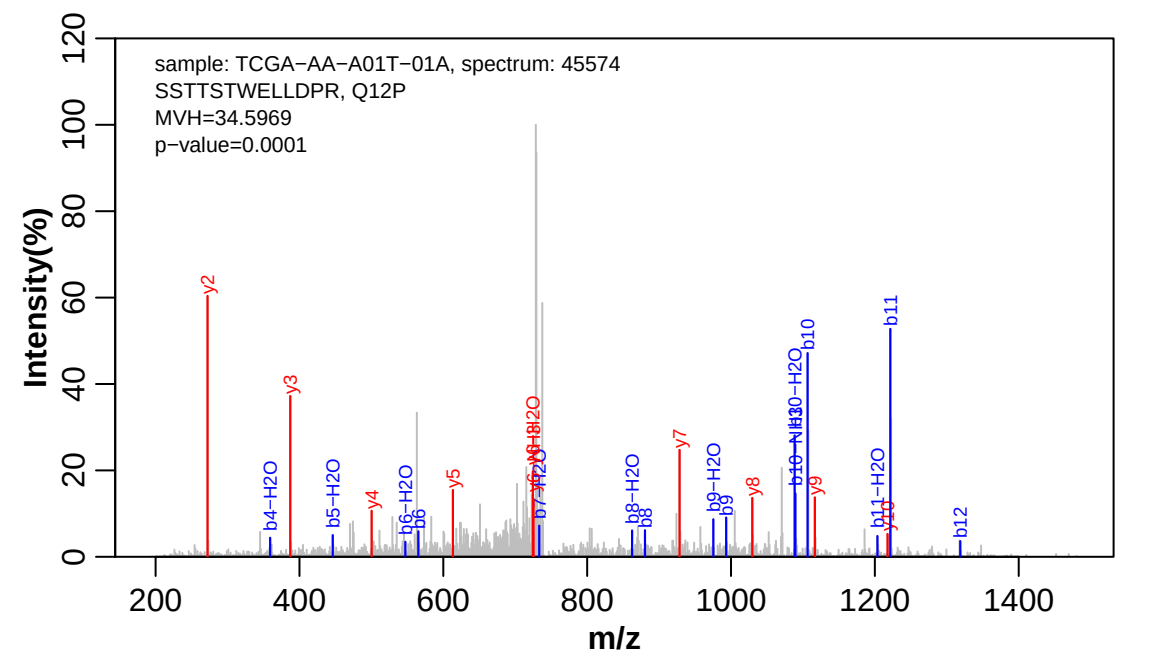

sample: TCGA−AA−A01T−01A, spectrum: 90260
SAGLAPDCEASATAETTVSSVGTCEAAAK, G28A
MVH=27.2848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5
b7
b14++
y7
b8
b18++−H2O
y17++−NH3
b20++−NH3
b10
b22++−H2O
b21++−H2O
y24++−H2O
y13−H2O
b27++
b28++
b12
b16−NH3
b16
y16
b17−H2O
b17
b18

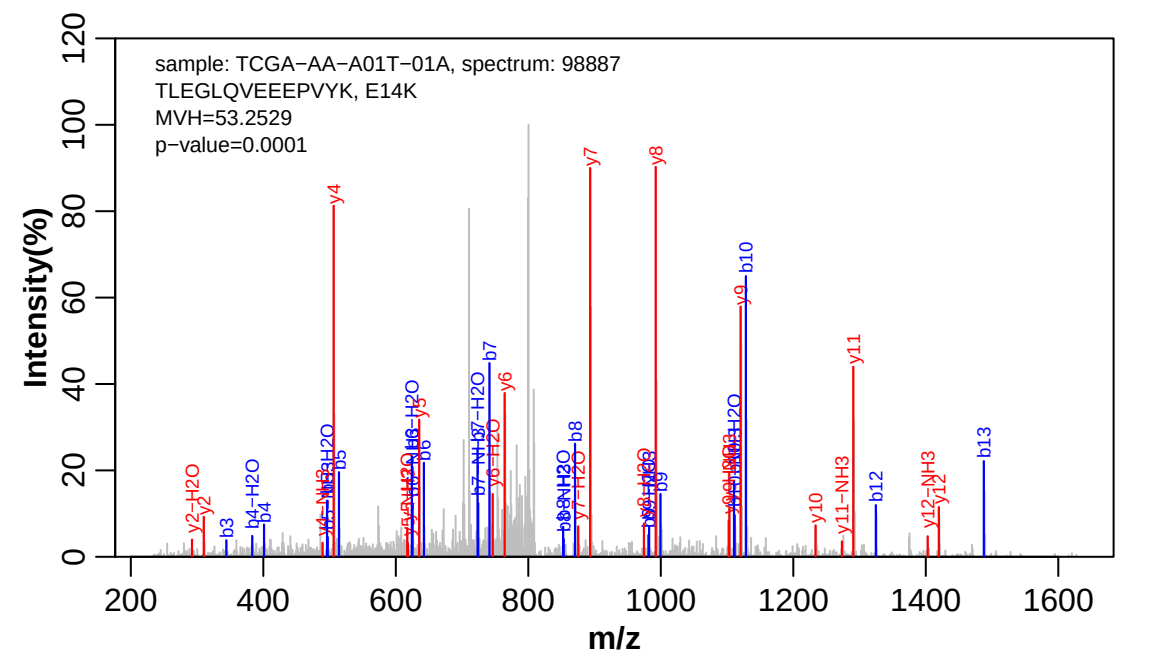

sample: TCGA−AA−A01T−01A, spectrum: 75297
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=73.1693
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y17++
y19++
y10
y11
b10
b11
b14
y12
y3
y7++
y4
b4
b5
y10++
y11++
y11++−H2O
b6−H2O
y6
y8
y12++
y13++
b15++
b8−NH3
b8
y16++
b17++−H2O
b17++
b18++−H2O
b18++
b9

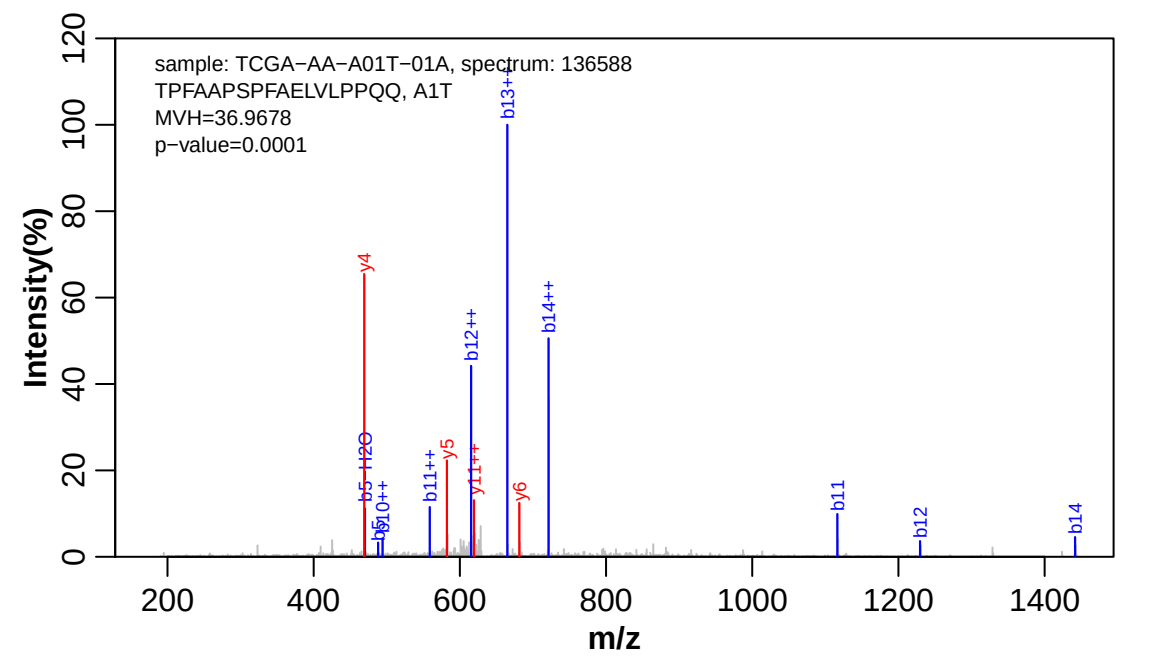

sample: TCGA−AA−A01T−01A, spectrum: 70458
SPADPTDLGGQTSPR, I6T
MVH=58.7409
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y6
y7
b7-NH3
y7
b8-H2O
y8
b8-NH3
b9
y9
b10
b11
y11-NH3
y11-NH3
y11
b13
y12
y13

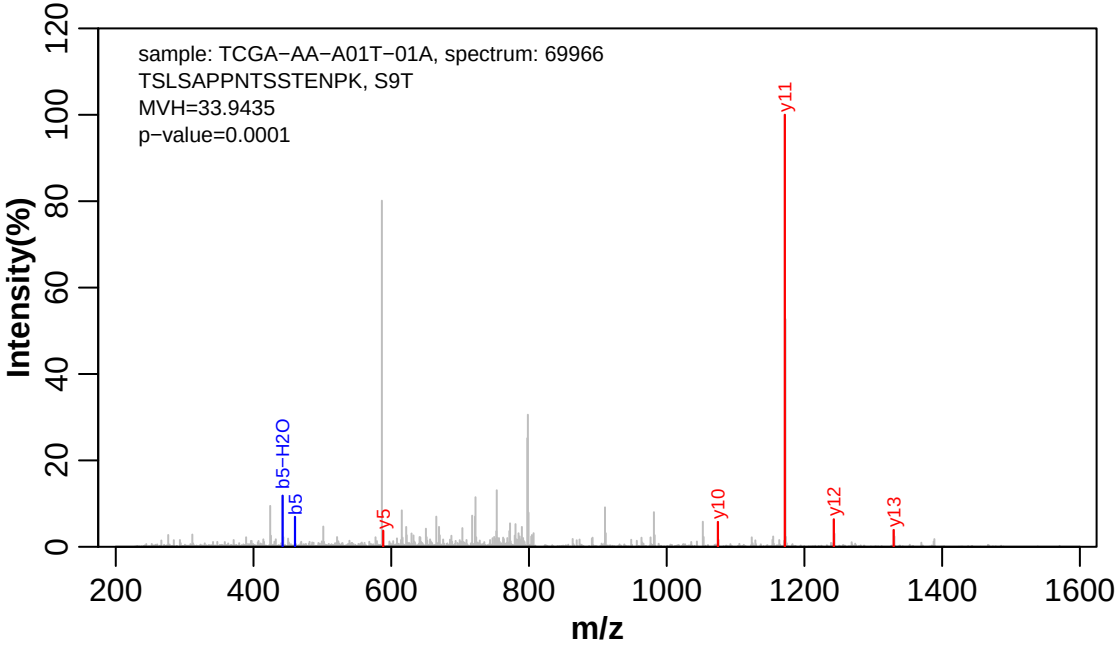

sample: TCGA−AA−A01T−01A, spectrum: 30059
SSSYSGEYGSGGGK, G10S
MVH=65.9205
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
b9−H2O
b9
b10−H2O
b10
b11
y11
y12

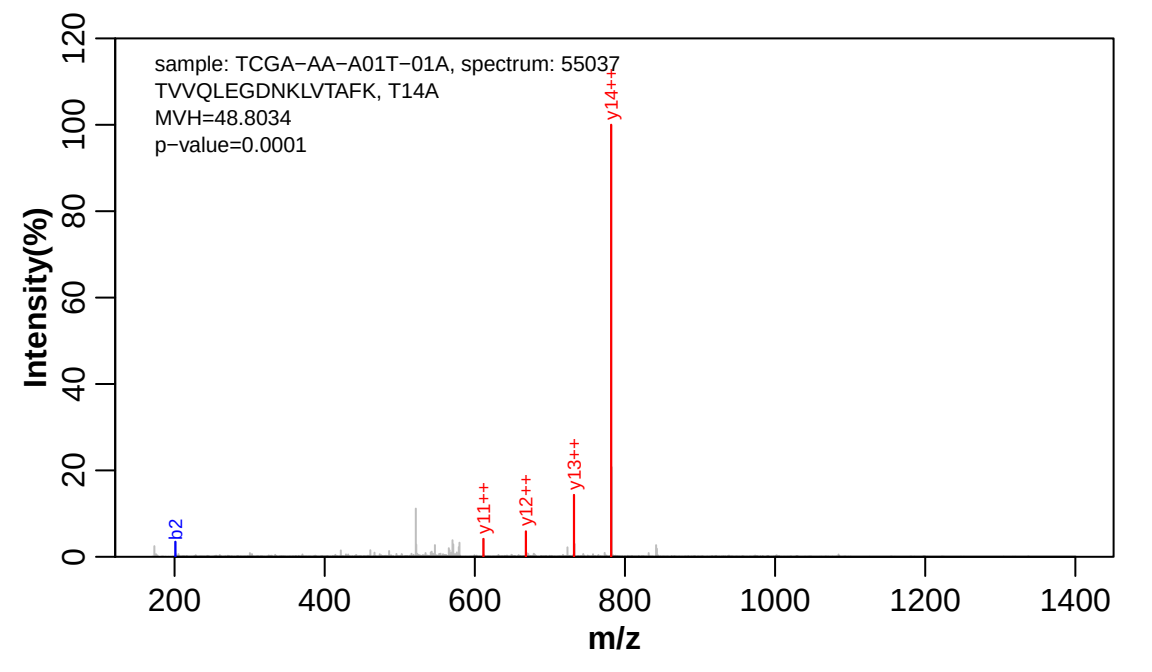

sample: TCGA−AA−A01T−01A, spectrum: 20440
SSSYSGEYGSGGGKR, G10S
MVH=48.1908
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2
y3
b4−H2O
y4
y5−H2O
y5
b5−H2O
b5
b6−H2O
b6
y6
y7−H2O
y7
b7−H2O
b7
y8
b8−H2O
b8
y9−H2O
y9
b9
y10
b10−H2O
y11
y11−H2O
y12
b14

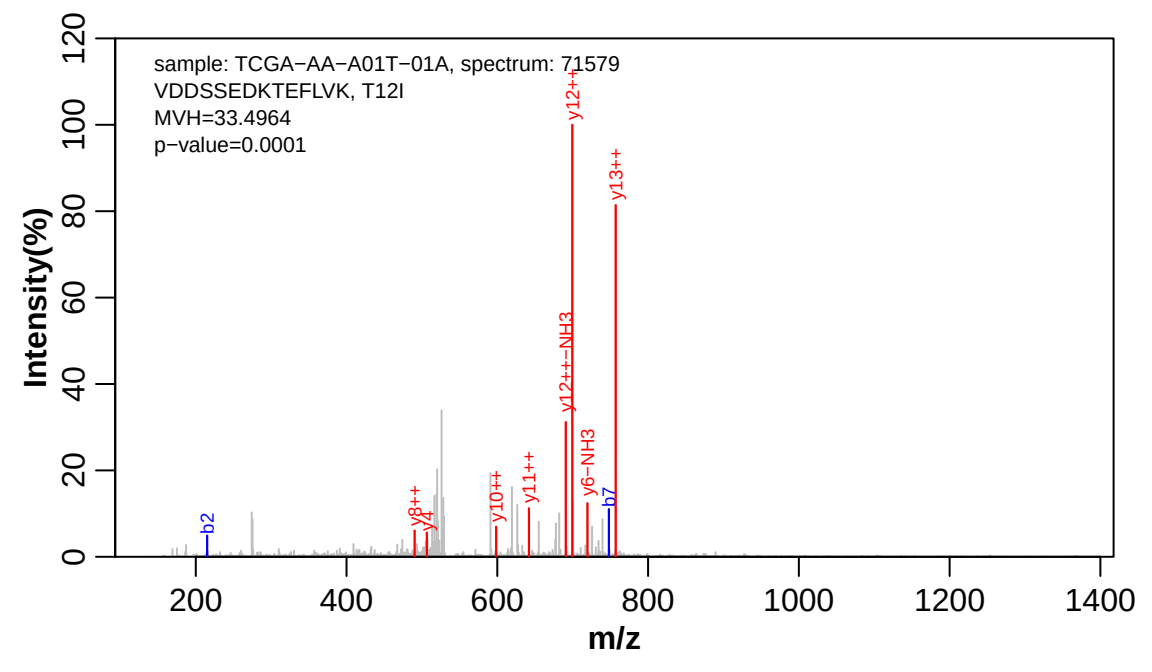

sample: TCGA−AA−A01T−01A, spectrum: 45574
SSTTSTWELLDPR, Q12P
MVH=34.5969
p−value=0.0001
Intensity(%)
m/z
y2
y3
b4−H2O
b5−H2O
y4
b6−H2O
b6
y5
b7−H2O
b8−H2O
b8
y7
b9−H2O
b9
y8
b10−NH3
b10−H2O
b10
y9
b11
b11−H2O
y10
b12

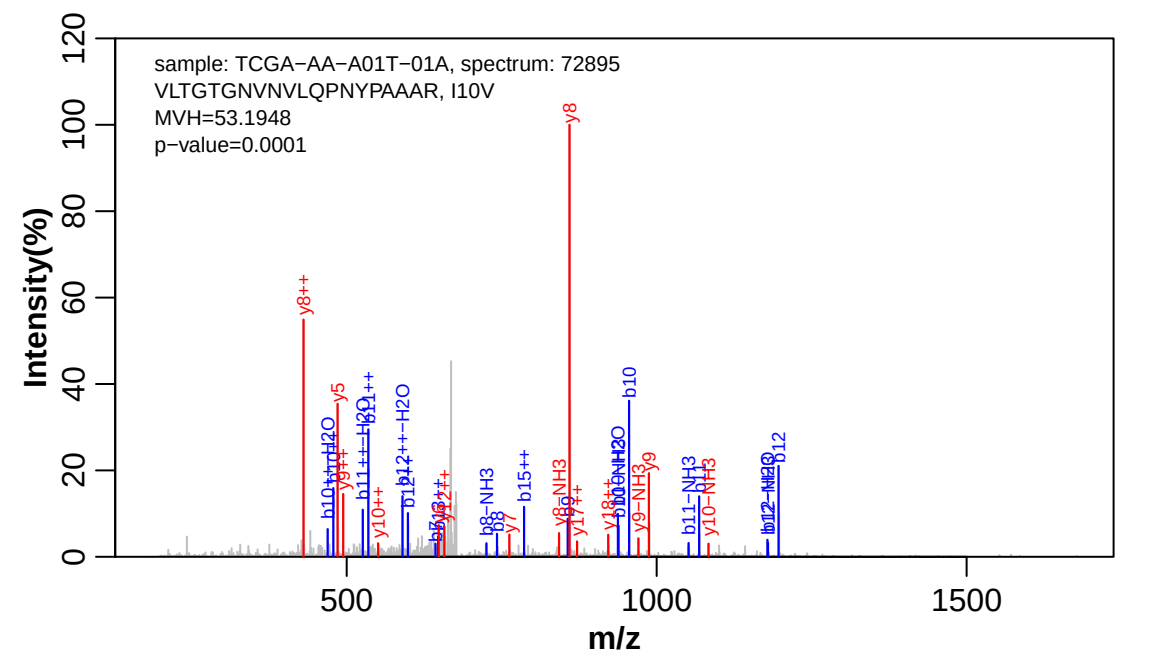

sample: TCGA−AA−A01T−01A, spectrum: 98887
TLEGLQVEEEPVYK, E14K
MVH=53.2529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y7
y8
y9
b10
y11
b13
b12
y12
y12−NH3
y11−NH3
y10
b7
b7−NH3
b7−H2O
y6
y6−H2O
y5
b8
b8−H2O
y7−H2O
b9
b6
b5
b4
b4−H2O
b3
y2
y2−H2O

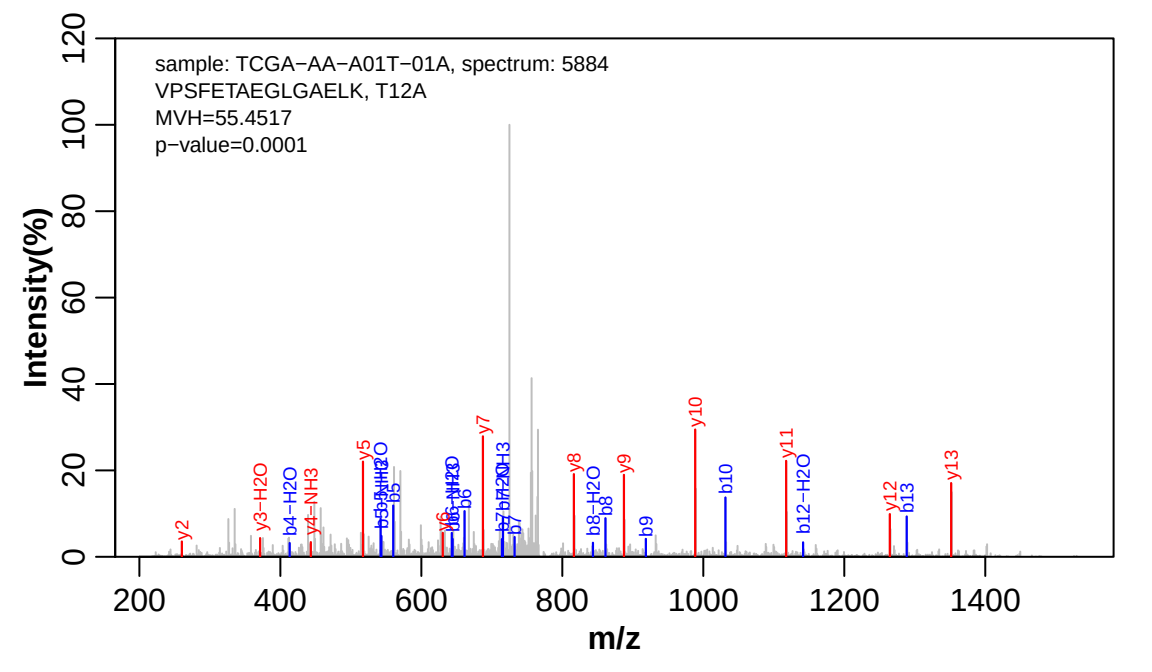

sample: TCGA−AA−A01T−01A, spectrum: 136588
TPFAAPSPFAELVLPPQQ, A1T
MVH=36.9678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b13++
b14++
b12++
b5−H2O
b5
b10++
b11++
y5
y11++
y6
b11
b12
b14

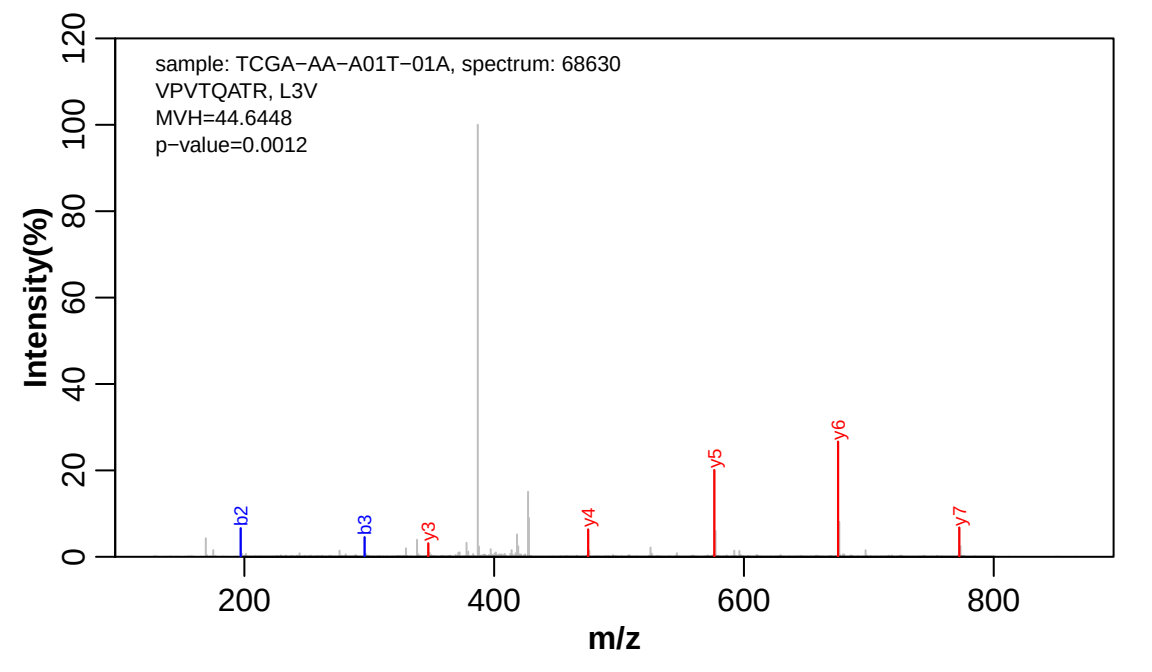

sample: TCGA−AA−A01T−01A, spectrum: 69966
TSLSAPPNTSSTENPK, S9T
MVH=33.9435
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y5
y10
y11
y12
y13

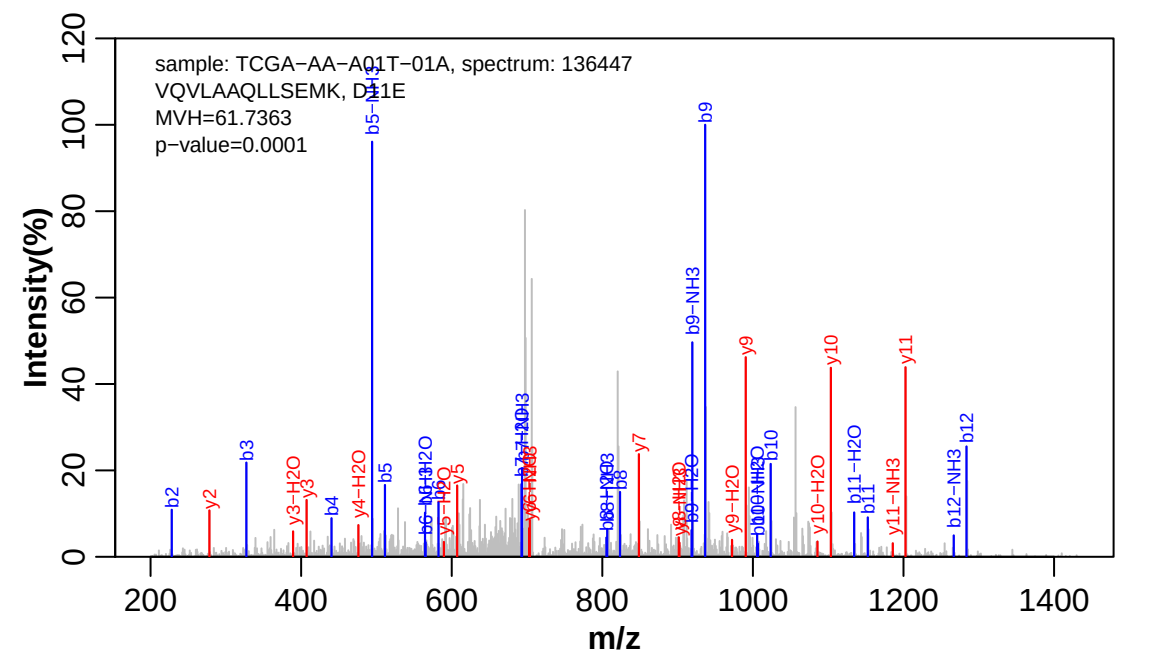

sample: TCGA−AA−A01T−01A, spectrum: 55037
TVVQLEGDNKLVTAFK, T14A
MVH=48.8034
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

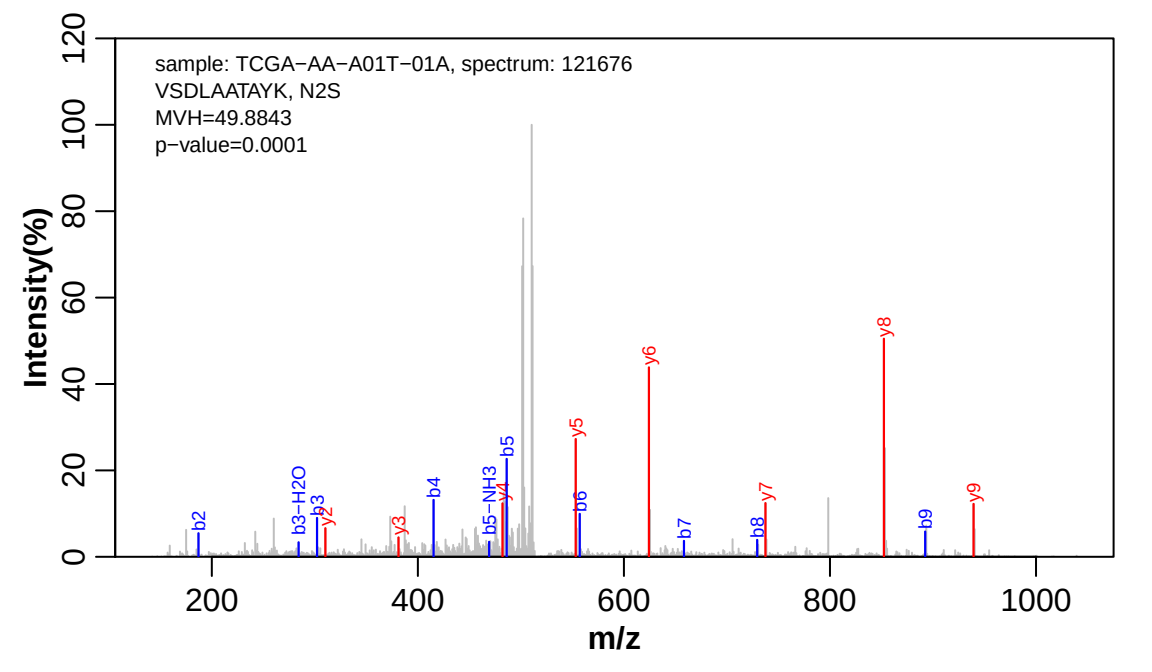

sample: TCGA−AA−A01T−01A, spectrum: 71579
VDDSSEDKTEFLVK, T12I
MVH=33.4964
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y8++
y4
y10++
y11++
y12++−NH3
y6−NH3
b7
y12++
y13++

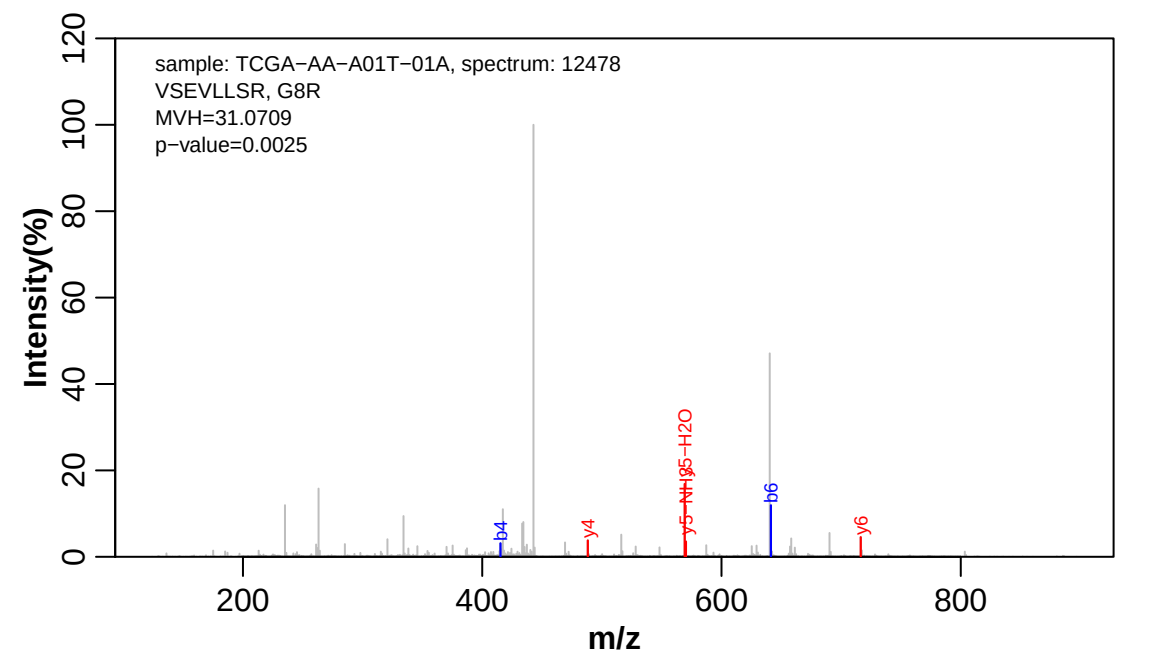

sample: TCGA−AA−A01T−01A, spectrum: 72895
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=53.1948
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y8++
y5
b11++−H2O
b12++−H2O
y10++
b15++
b8−NH3
y8−NH3
y9−NH3
b10
b11−NH3
y10−NH3
b12

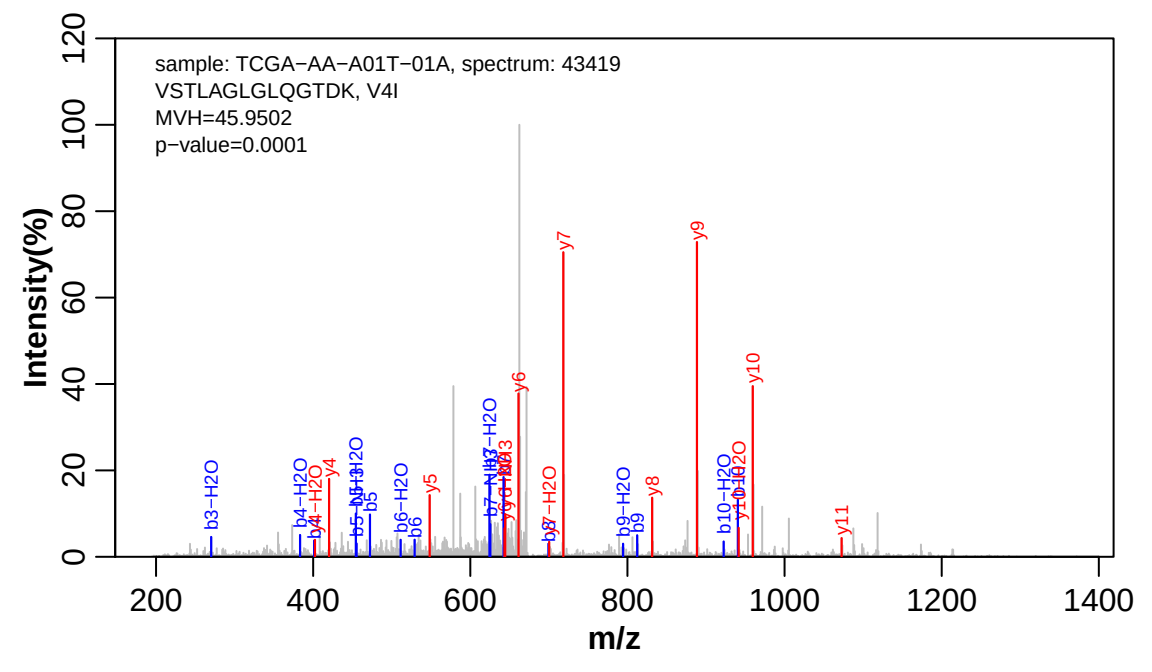

sample: TCGA−AA−A01T−01A, spectrum: 5884
VPSFETAEGLGAELK, T12A
MVH=55.4517
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3−H2O
b4−H2O
y4−NH3
y5
y7
y8
b8−H2O
y9
y10
b10
y11
b12−H2O
y12
b13
y13

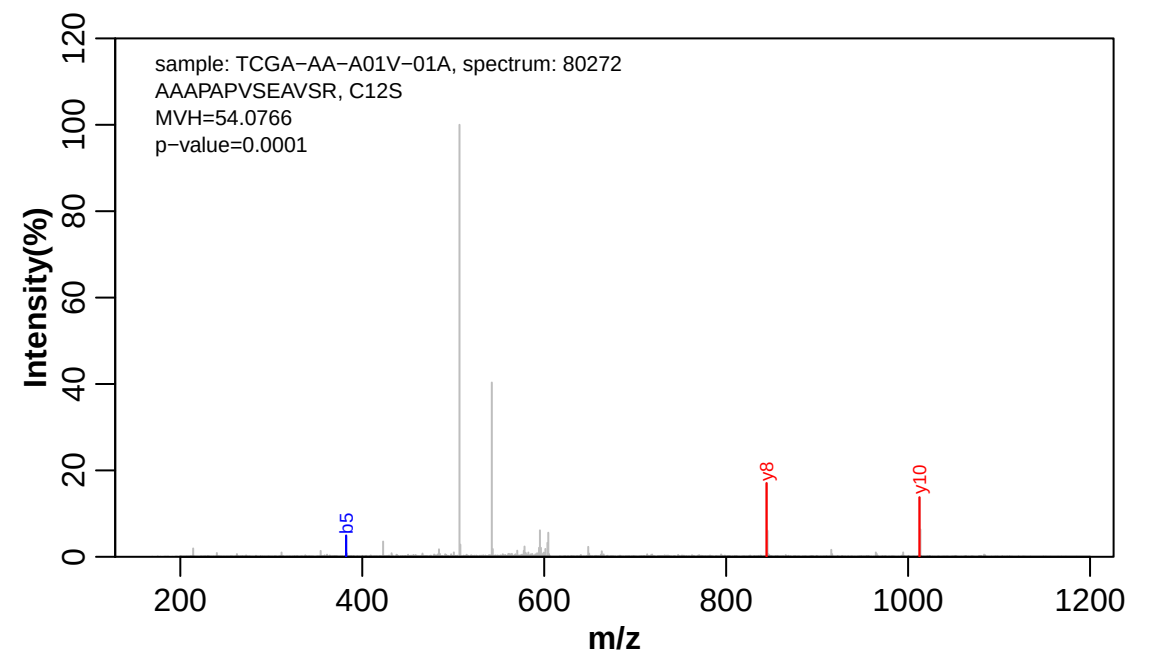

sample: TCGA−AA−A01T−01A, spectrum: 68630
VPVTQATR, L3V
MVH=44.6448
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

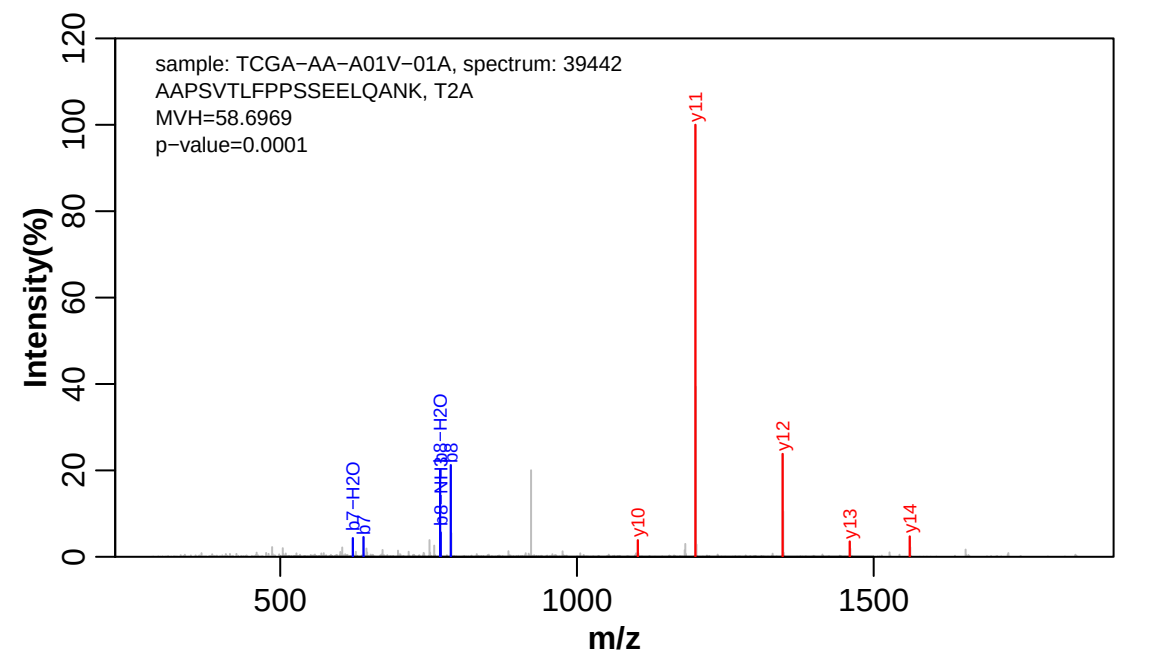

sample: TCGA−AA−A01T−01A, spectrum: 136447
VQVLAAQLLSEMK, D11E
MVH=61.7363
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5−NH3
b5
b6−NH3
b6−H2O
y5−H2O
y5
b7−H2O
b7−NH3
b8−H2O
b8−NH3
b8
y7
b9−NH3
b9−H2O
b9
y8−NH3
y8−H2O
y9−H2O
y9
b10−NH3
b10−H2O
b10
y10−H2O
y10
b11−H2O
b11
y11−NH3
y11
b12−NH3
b12

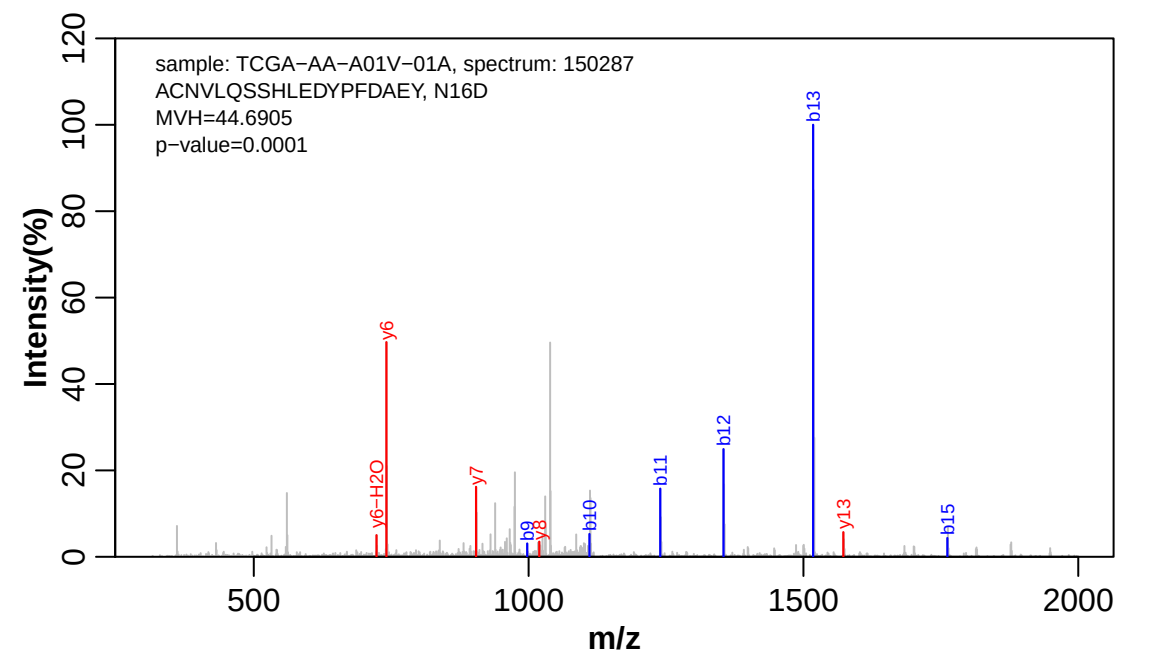

sample: TCGA−AA−A01T−01A, spectrum: 121676
VSDLAATAYK, N2S
MVH=49.8843
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−NH3
y4
b5
y5
b6
y6
b7
b8
y7
y8
b9
y9

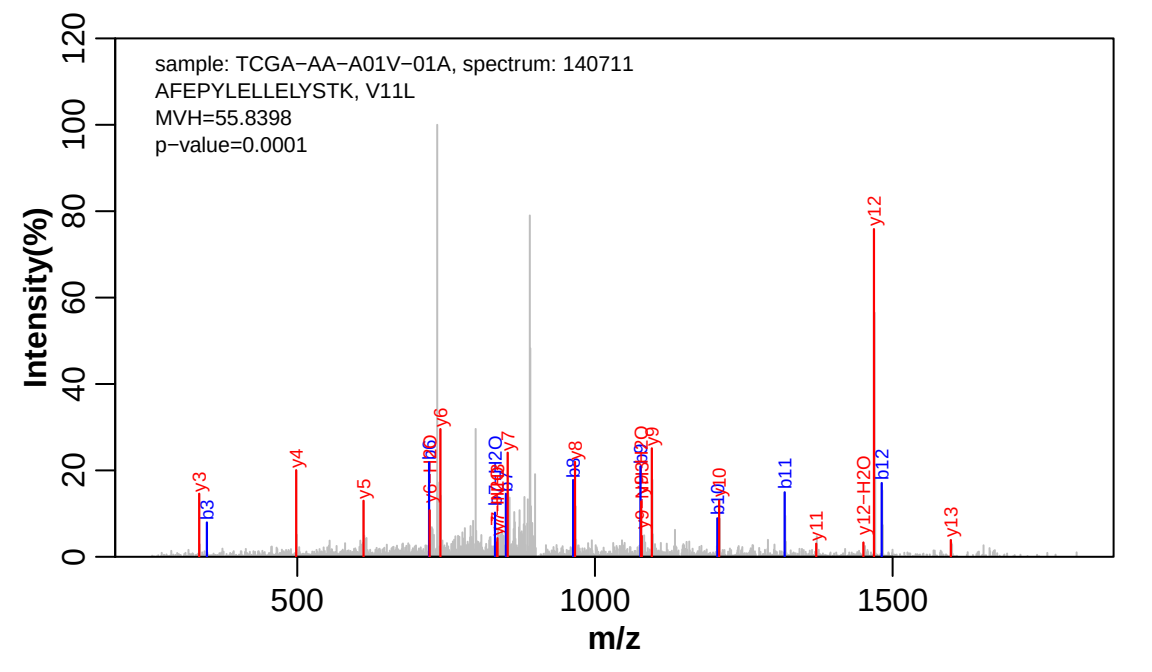

sample: TCGA−AA−A01T−01A, spectrum: 12478
VSEVLLSR, G8R
MVH=31.0709
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b4
y4
y5−NH3
y5−H2O
b6
y6

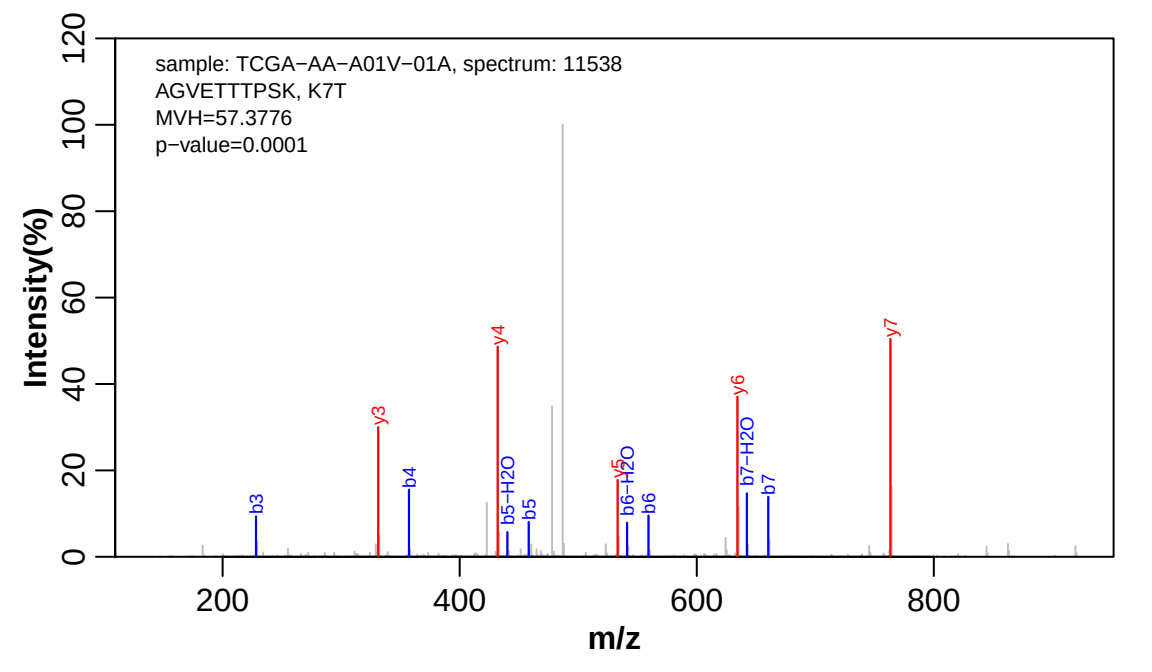

sample: TCGA−AA−A01T−01A, spectrum: 43419
VSTLAGLGLQGTDK, V4I
MVH=45.9502
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b4−H2O
y4
y4−H2O
b5
b6−H2O
b6
y5
b7−NH3−H2O
y6
b8−H2O
y7
b9−H2O
b9
y8
y9
b10−H2O
y10
y10−H2O
y11

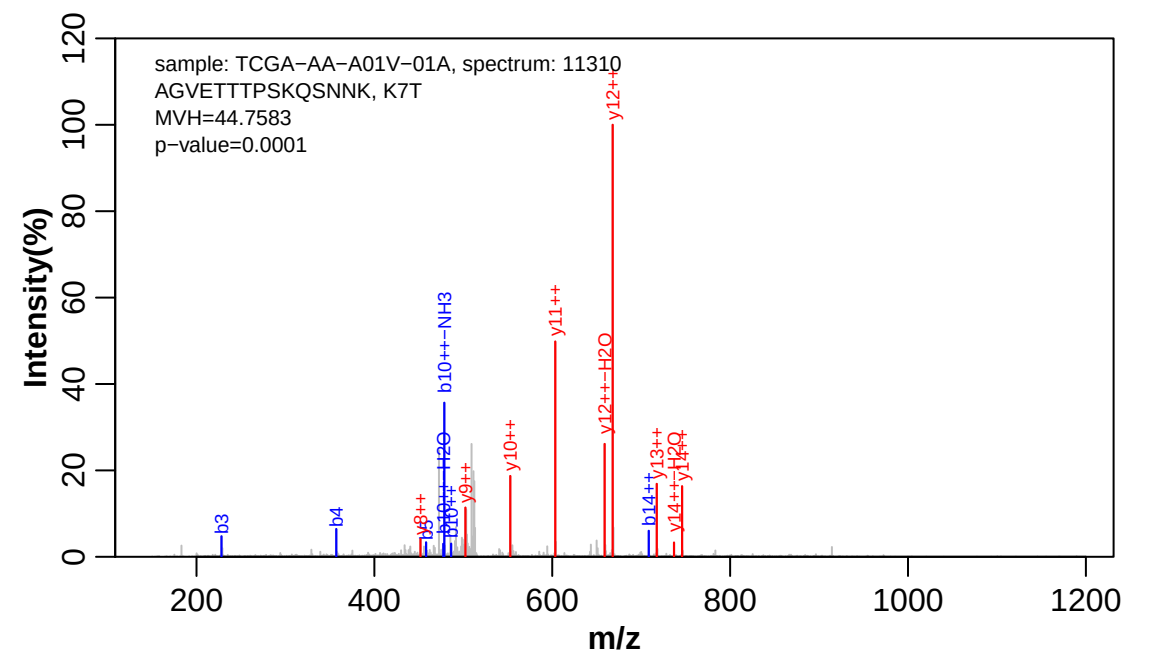

sample: TCGA−AA−A01V−01A, spectrum: 80272
AAAPAPVSEAVSR, C12S
MVH=54.0766
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

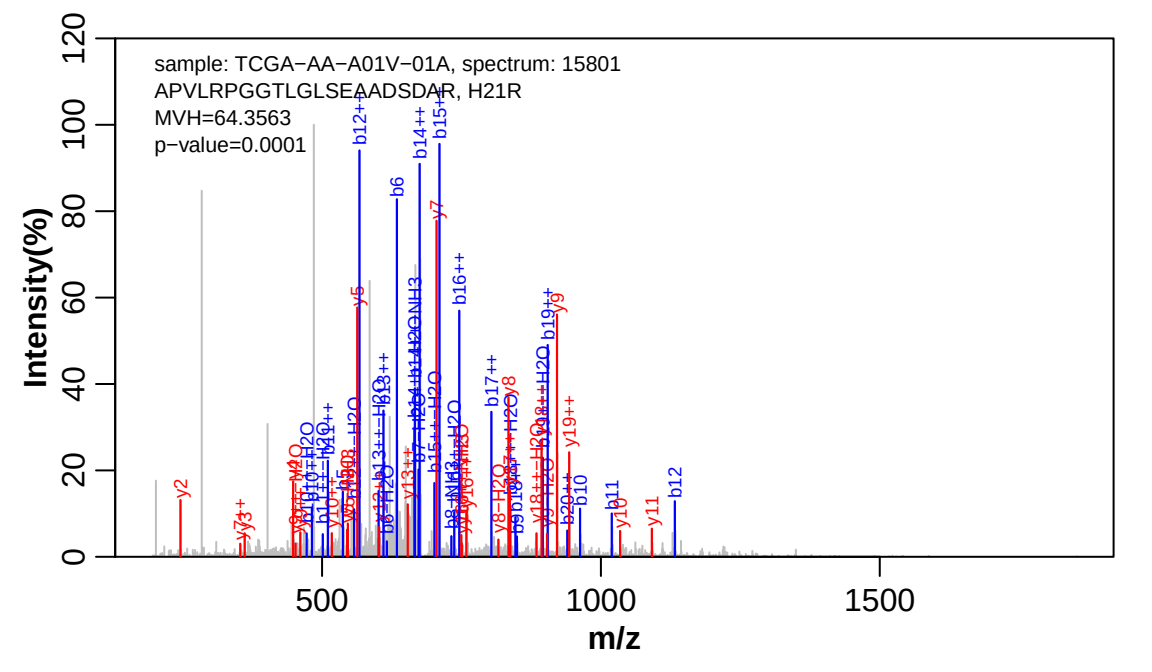

sample: TCGA−AA−A01V−01A, spectrum: 39442
AAPSVTLFPPSSEELQANK, T2A
MVH=58.6969
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7−H2O
b7
b8−NH3
b8−H2O
b8
y10
y11
y12
y13
y14

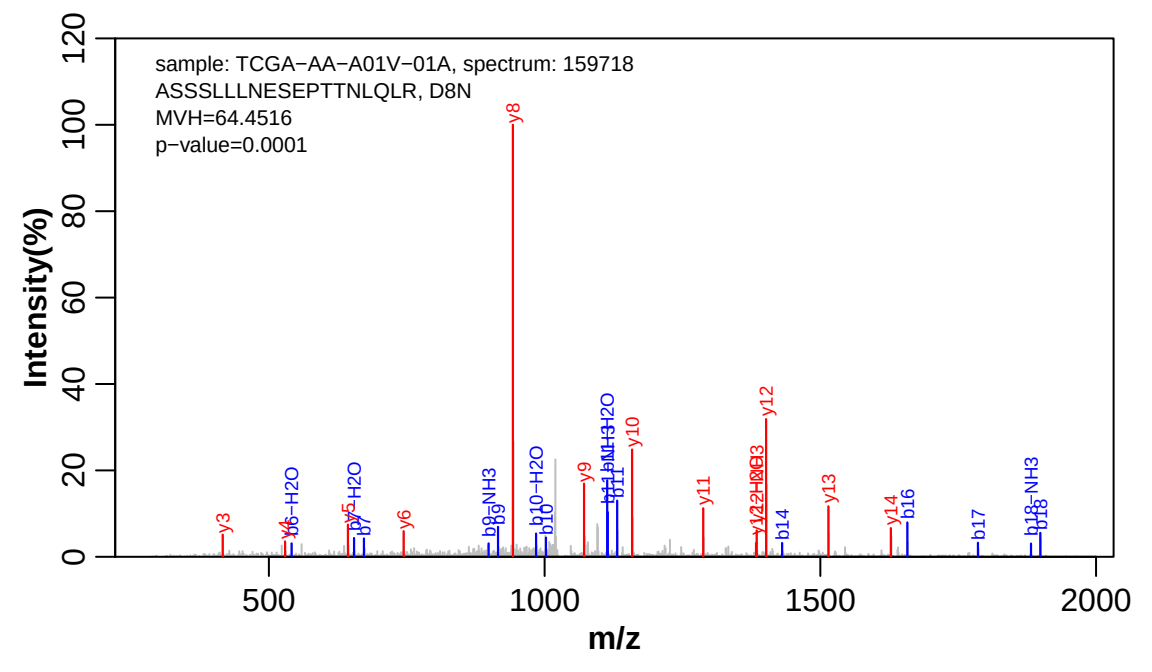

sample: TCGA−AA−A01V−01A, spectrum: 150287
ACNVLQSSHLEDYPFDAEY, N16D
MVH=44.6905
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y6
y6−H2O
y7
b9
y8
b10
b11
b12
b13
y13
b15

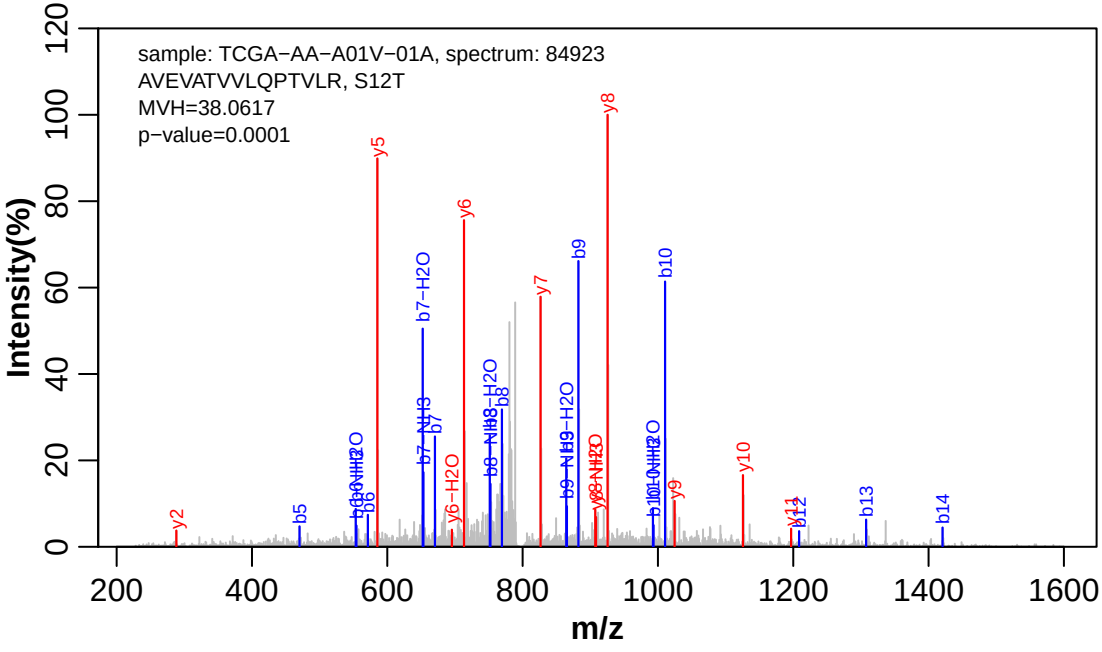

sample: TCGA−AA−A01V−01A, spectrum: 140711
AFEPYLELLELYSTK, V11L
MVH=55.8398
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y12−H2O
b12
y13
b11
y11
b10
y10
y9
y9−NH3
y9−H2O
b9
y8
y7
b7
y7−H2O
y6
y6−H2O
y5
y4
b3
y3

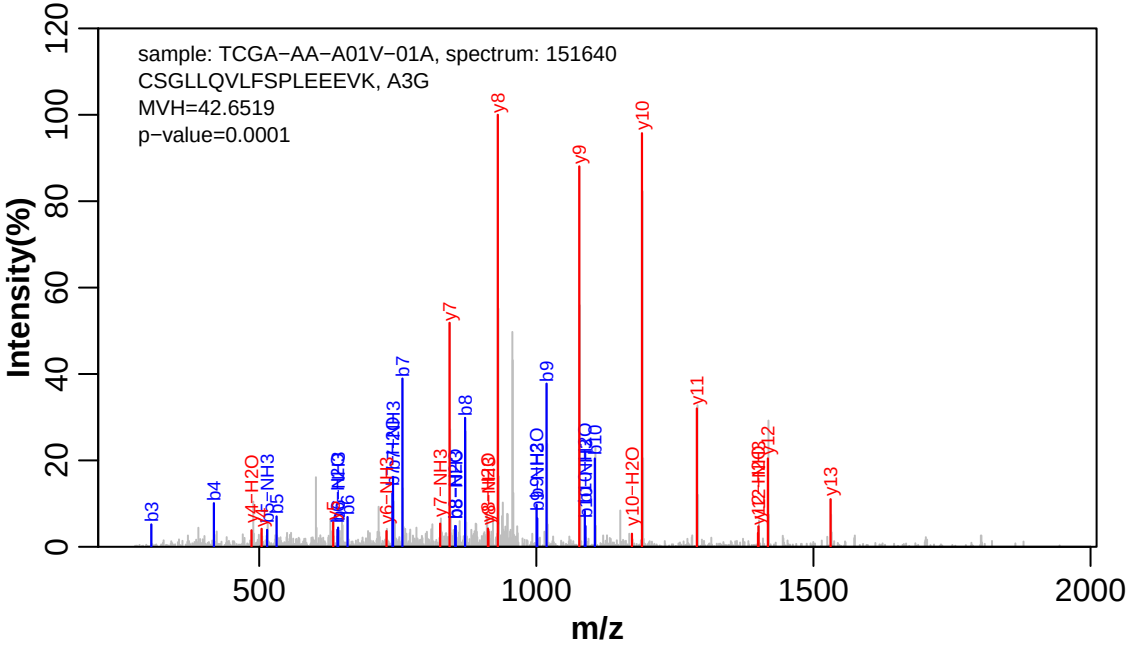

sample: TCGA−AA−A01V−01A, spectrum: 11538
AGVETTTPSK, K7T
MVH=57.3776
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

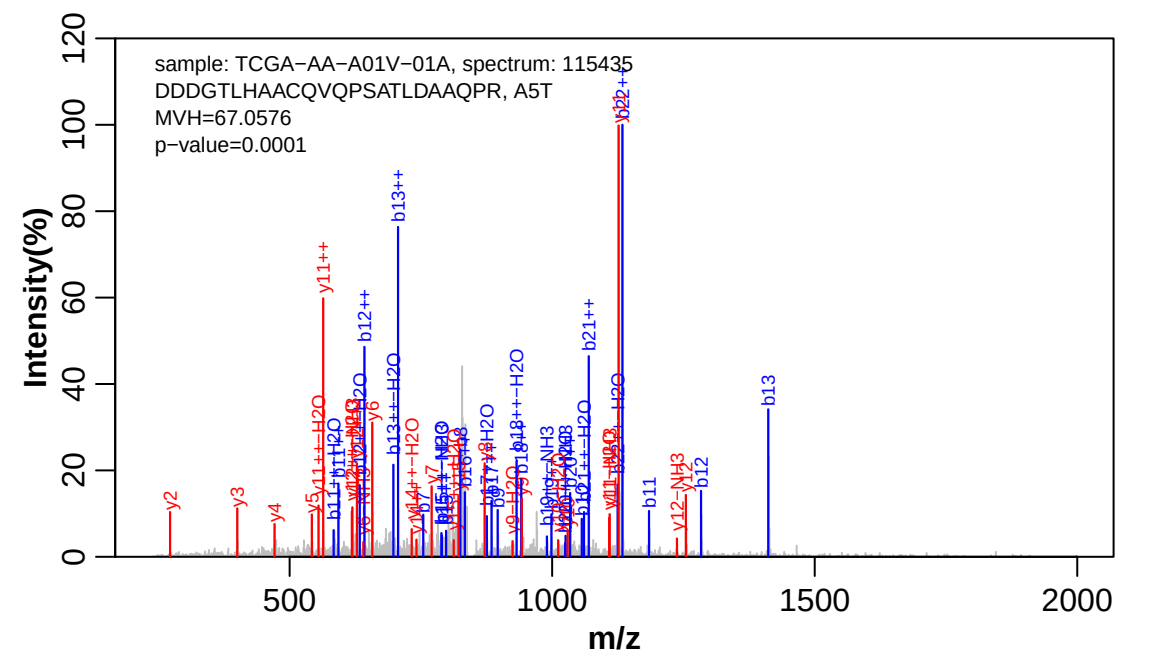

sample: TCGA−AA−A01V−01A, spectrum: 11310
AGVETTTPSKQSNNK, K7T
MVH=44.7583
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
b4
b8++
b9++
b10++−H2O
b10++
b10++−NH3
y9++
y10++
y11++
y12++−H2O
y12++
b14++
y13++
y14++
y14++−H2O

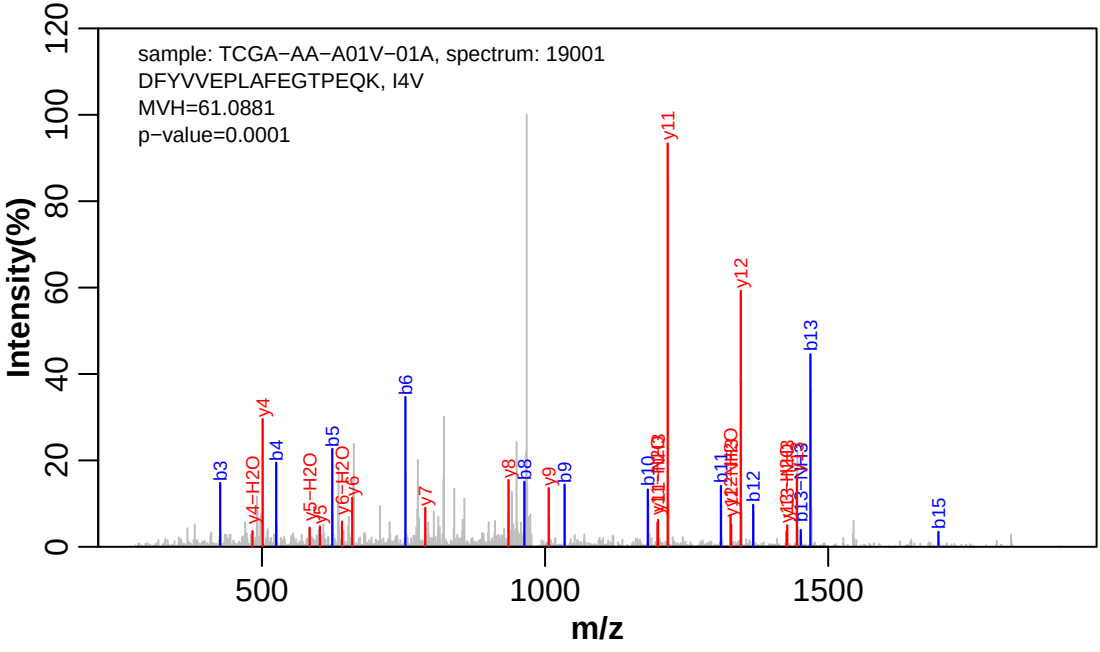

sample: TCGA−AA−A01V−01A, spectrum: 15801
APVLRPGGTLGLSEAADSDAR, H21R
MVH=64.3563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3++
b12++
b13++
b12++−H2O
b13++−H2O
b14++
b15++
b12++
y5
b6
y7
b16++
b17++
y8
y8−H2O
b19++
y9
y19++
b10
b11
y10
y11
b12

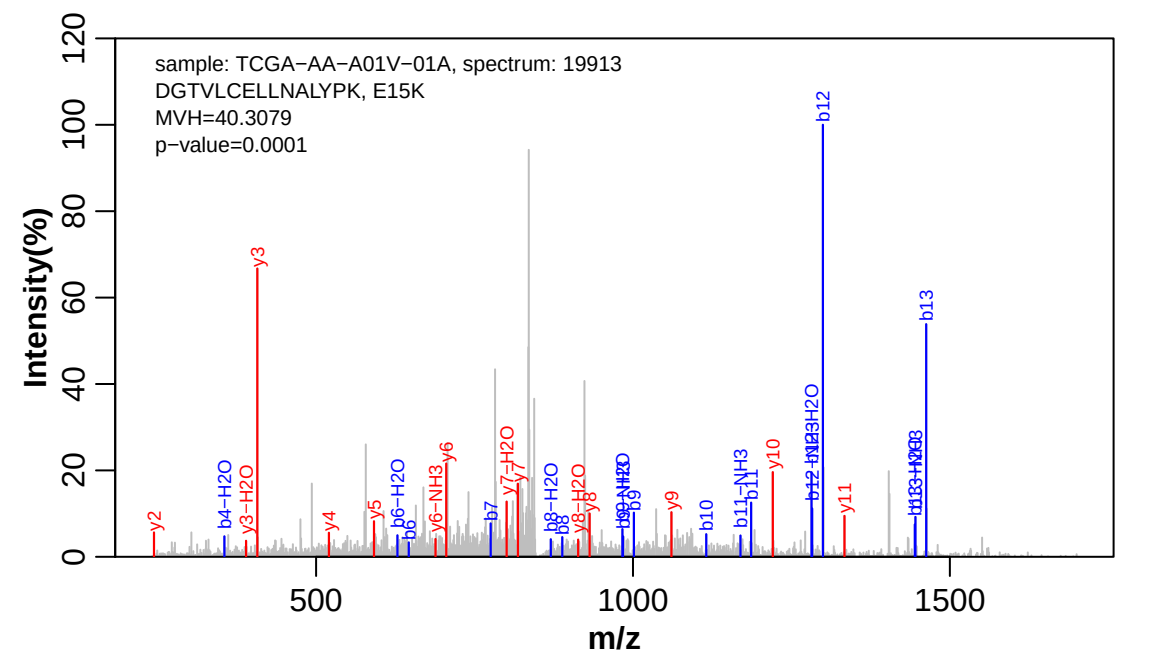

sample: TCGA−AA−A01V−01A, spectrum: 159718
ASSSLLLNESEPTTNLQLR, D8N
MVH=64.4516
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b6−H2O
y5
b7
y6
b8−NH3
b9
b10−H2O
b10
y8
y9
b11−NH3
b11−H2O
b11
y10
y11
y12−H2O
y12−NH3
y12
b14
y13
y14
b16
b17
b18−NH3
b18

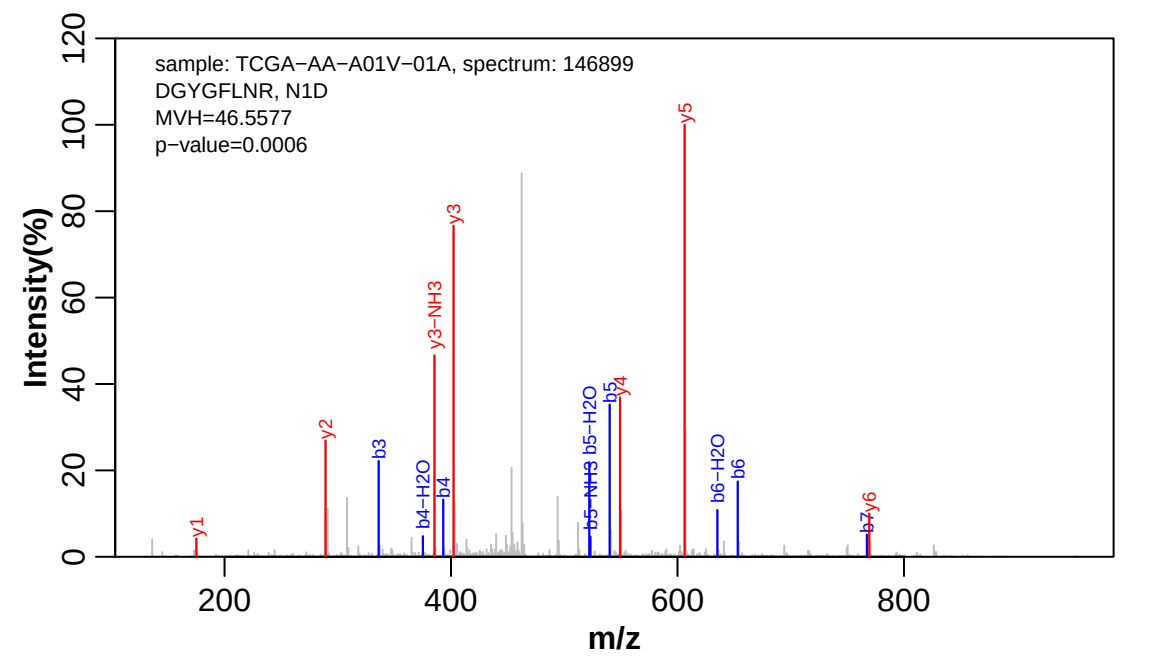

sample: TCGA−AA−A01V−01A, spectrum: 84923
AVEVATVVLQPTVLR, S12T
MVH=38.0617
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5
b6
y5
b7−H2O
b7
y6
y6−H2O
b8
y7
b9
y8
b10
y9
y10
b13
b14

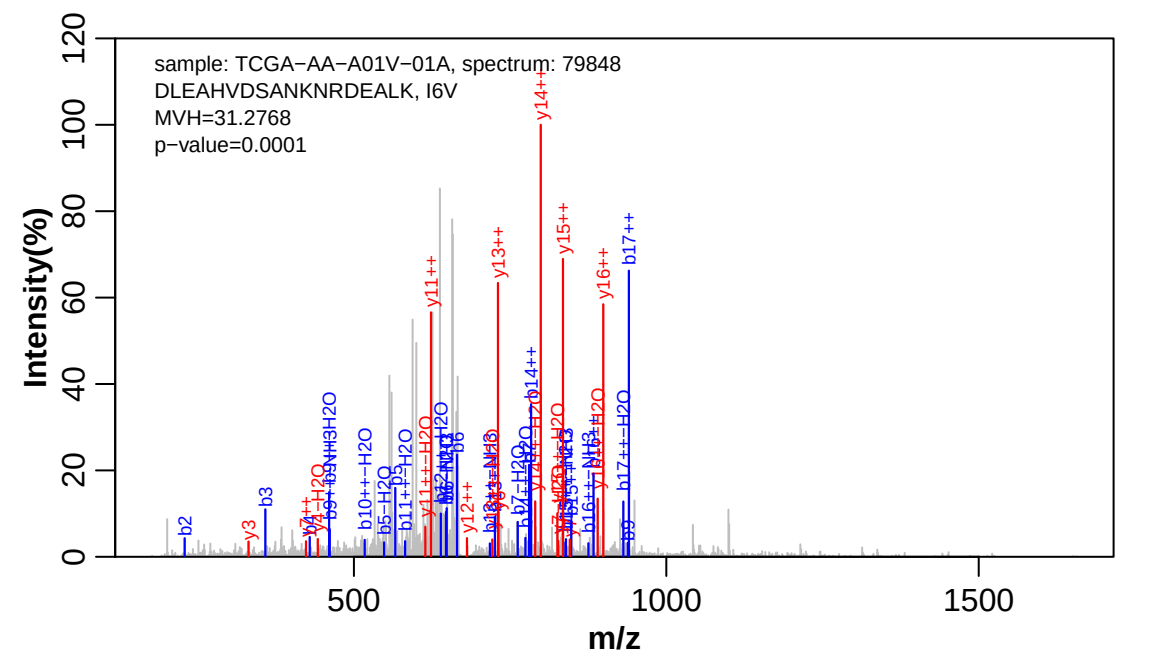

sample: TCGA−AA−A01V−01A, spectrum: 151640
CSGLLQVLFSPLEEEVK, A3G
MVH=42.6519
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
b4
y4−H2O
y5
b5
y5−NH3
b6
b6−NH3
y6−NH3
b7
b7−H2O
b7−NH3
y7
y7−NH3
b8
b8−NH3
y8
y8−NH3
b9
b9−H2O
b9−NH3
b10
b10−NH3
y10−H2O
y8
y9
y10
y11
y12
y12−H2O
y12−NH3
y13

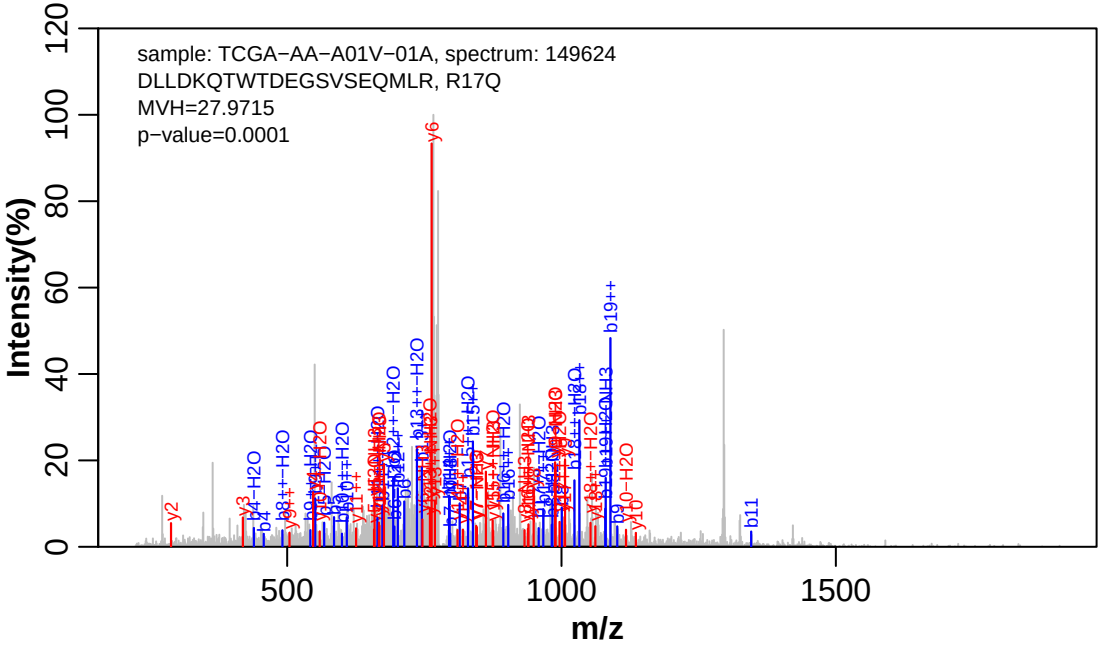

sample: TCGA−AA−A01V−01A, spectrum: 115435
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=67.0576
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y5
y11++−H2O
y11++
b11+−H2O
b12++
b13++
b13++−H2O
y6
y14++−H2O
y7
b15++
b16++
b17++
b17++−H2O
b18++−H2O
y9−H2O
y9
y10
b18++
b10+−NH3
b21++
b21++−H2O
b11
y12−NH3
y12
b12
b13

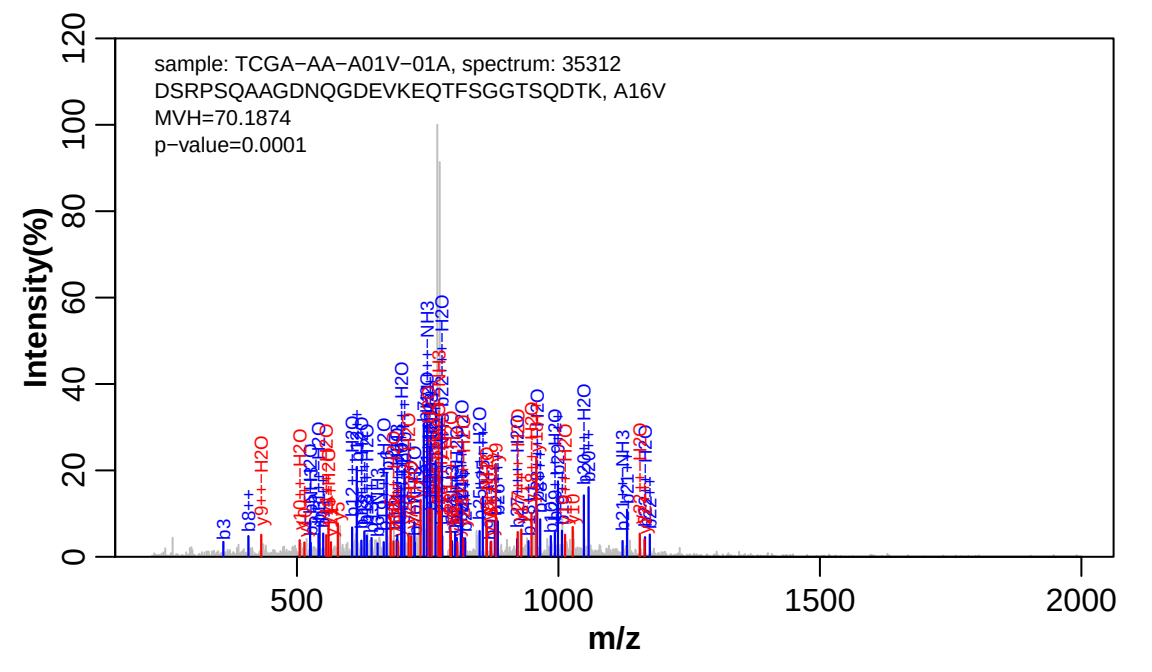

sample: TCGA−AA−A01V−01A, spectrum: 19001
DFYVVEPLAFEGTPEQK, I4V
MVH=61.0881
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4−H2O
y4
b4
y5−H2O
y5
b5
y6−H2O
y6
b6
y7
y8
b8
y9
b9
b10
y11−H2O
y11
b11
y12−NH3
y12
b12
b13−NH3
b13
b15

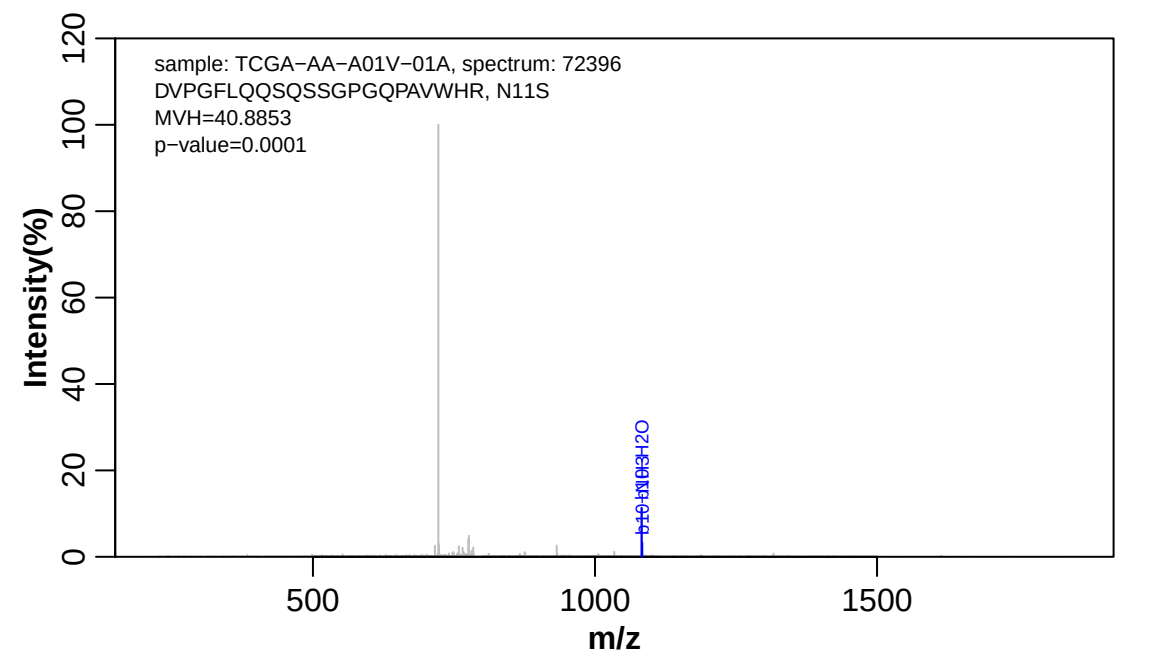

sample: TCGA−AA−A01V−01A, spectrum: 19913
DGTVLCELLNALYPK, E15K
MVH=40.3079
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b4−H2O
y3
y3−H2O
y4
y5
b6−H2O
b6
y6
y6−NH3
b7
y7
y7−H2O
b8−H2O
b8
y8
y8−H2O
b9
y9
b10
b11−NH3
b11
y10
b12
y11
b13

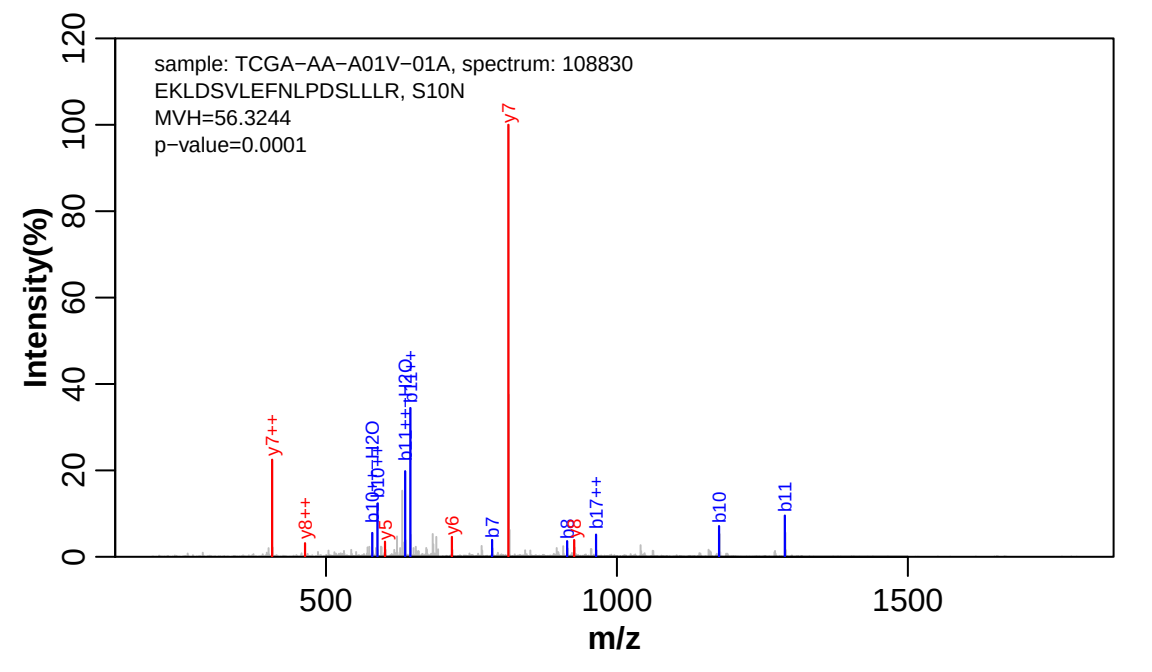

sample: TCGA−AA−A01V−01A, spectrum: 146899
DGYGFLNR, N1D
MVH=46.5577
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

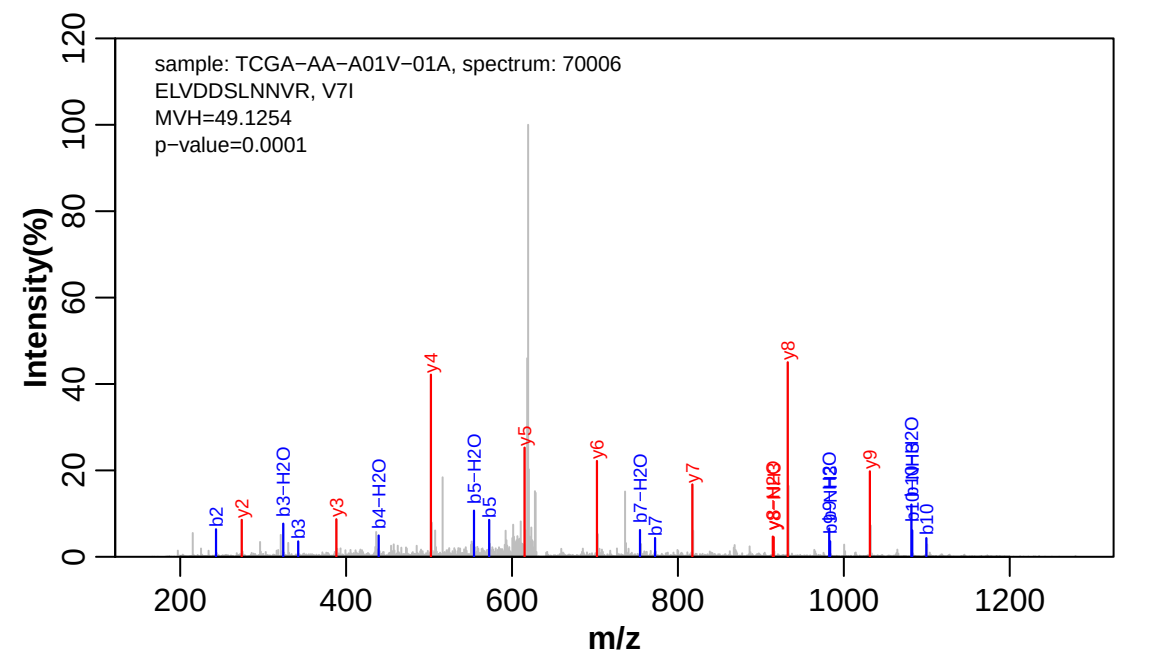

sample: TCGA−AA−A01V−01A, spectrum: 79848
DLEAHVDSANKNRDEALK, I6V
MVH=31.2768
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y14++
y15++
b17++
y11++
y13++
y16++
b14++
y11++−H2O
b10++−H2O
b11++−H2O
y12++
b2
y3
b3
b5
b9

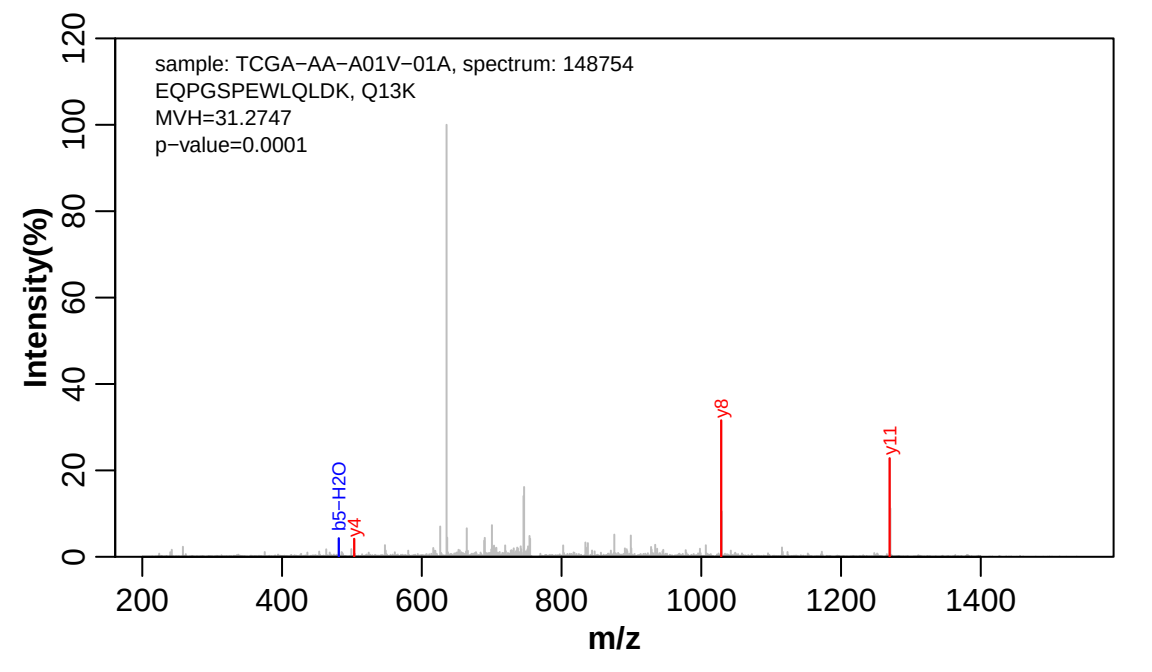

sample: TCGA−AA−A01V−01A, spectrum: 149624
DLLDKQTWTDEGSVSEQMLR, R17Q
MVH=27.9715
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y2
y3
b4
b19++
b11

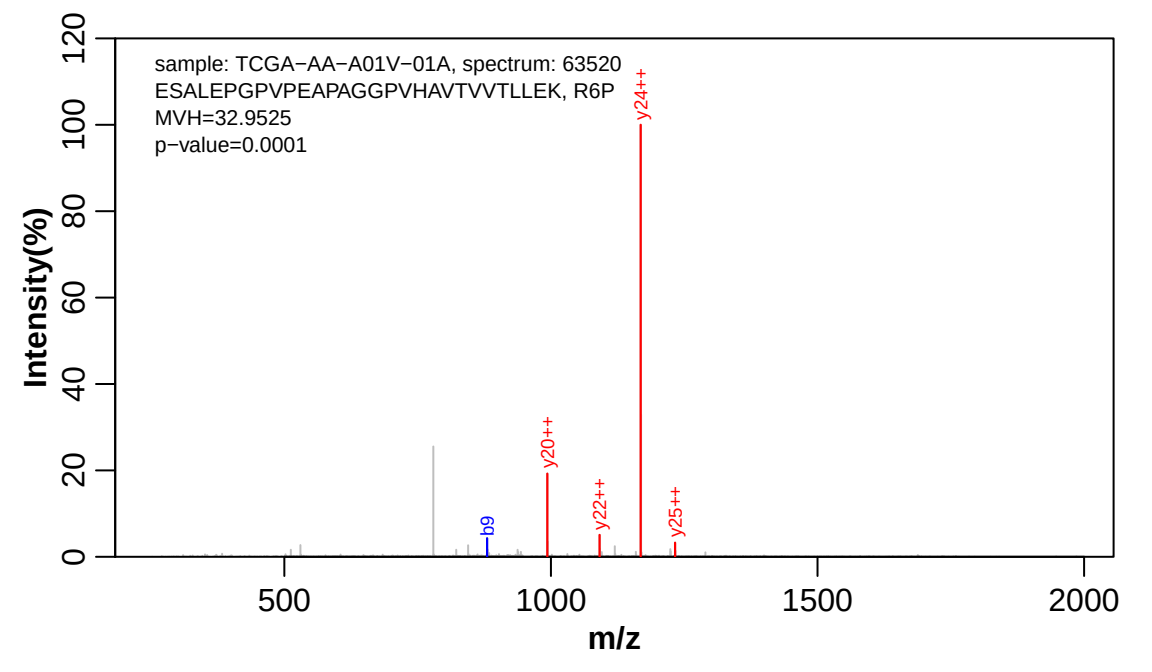

sample: TCGA−AA−A01V−01A, spectrum: 35312
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=70.1874
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

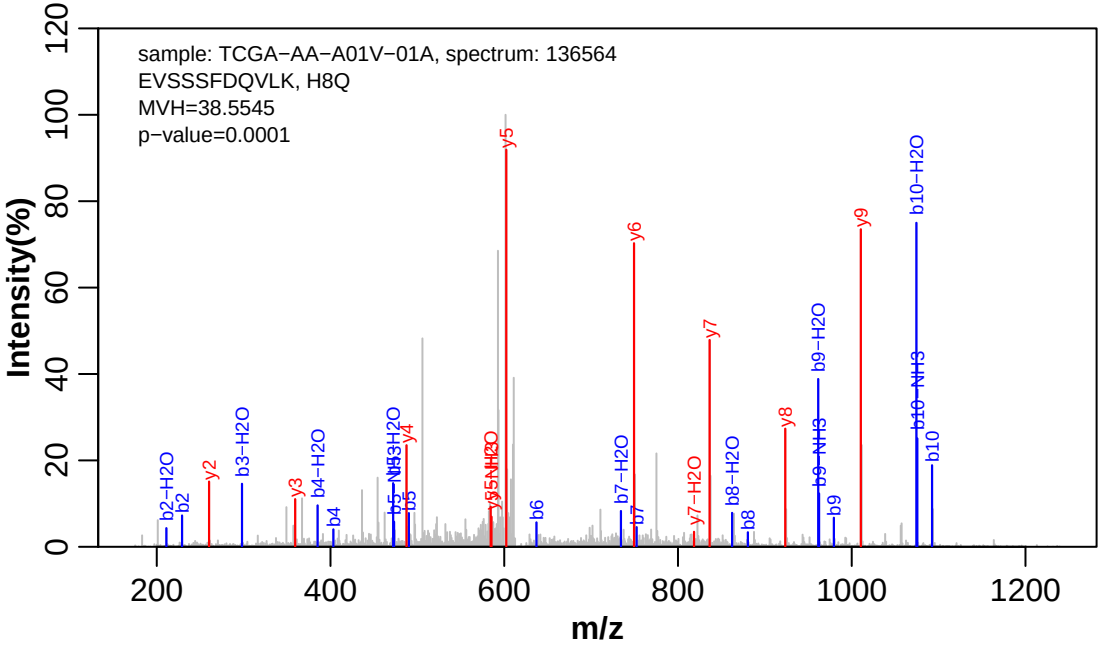

sample: TCGA−AA−A01V−01A, spectrum: 72396
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=40.8853
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

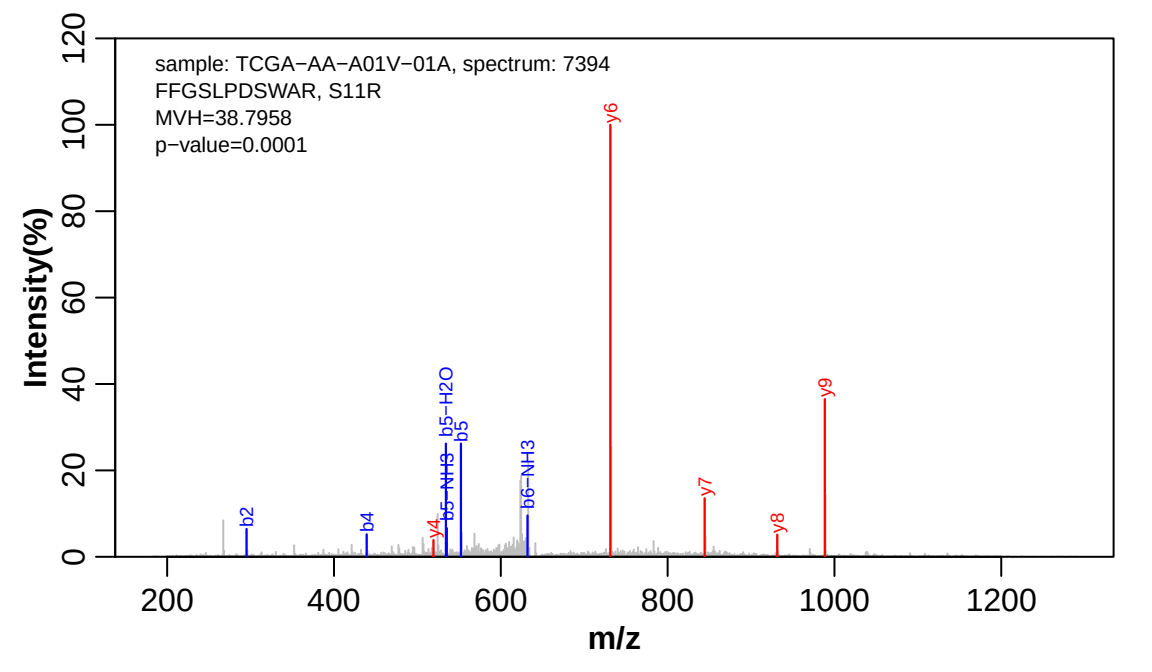

sample: TCGA−AA−A01V−01A, spectrum: 108830
EKLDSVLEFNLPDSLLLR, S10N
MVH=56.3244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y7++
y8++
b10++H2O
b10++H2O
y5
b11++H2O
b11++H2O+
y6
b7
b8
y8
b17++
b10
b11

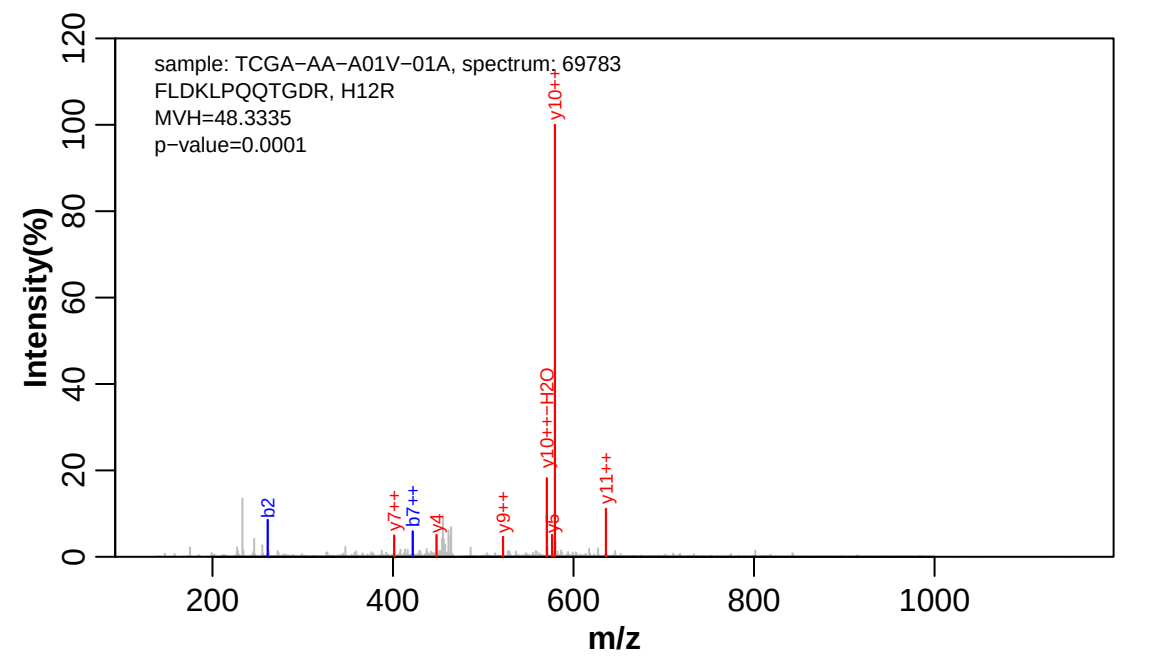

sample: TCGA−AA−A01V−01A, spectrum: 70006
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8
y9
b10
y8−NH3
b9−NH3
b9−H2O
b10−NH3
b10−H2O

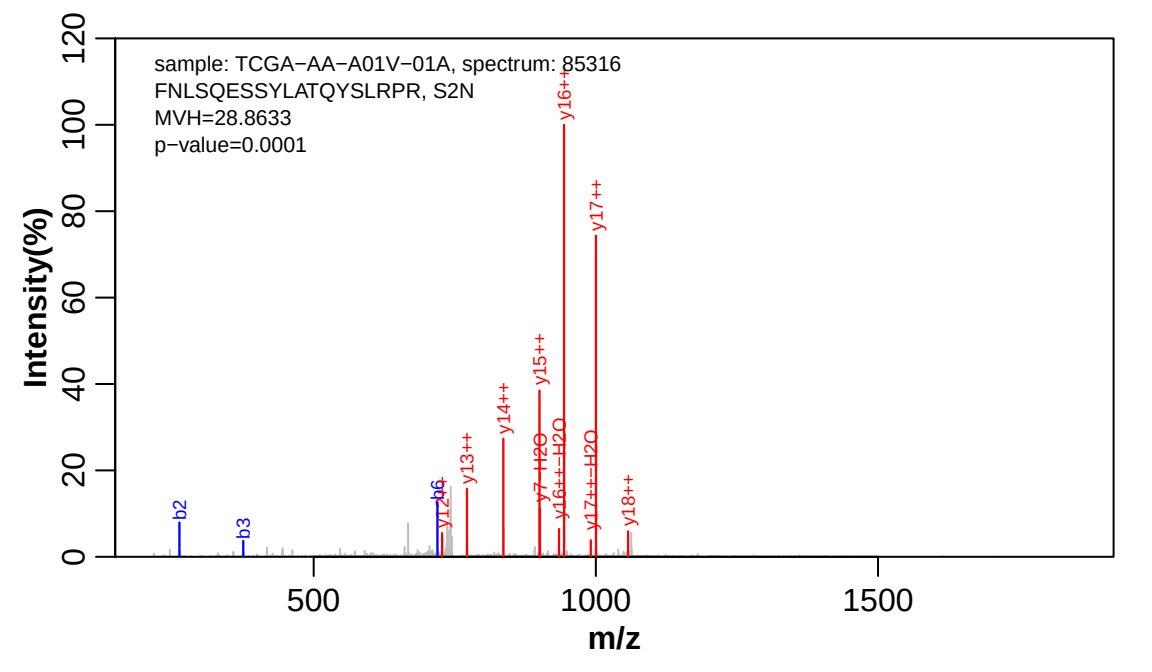

sample: TCGA−AA−A01V−01A, spectrum: 148754
EQPGSPEWLQLDK, Q13K
MVH=31.2747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

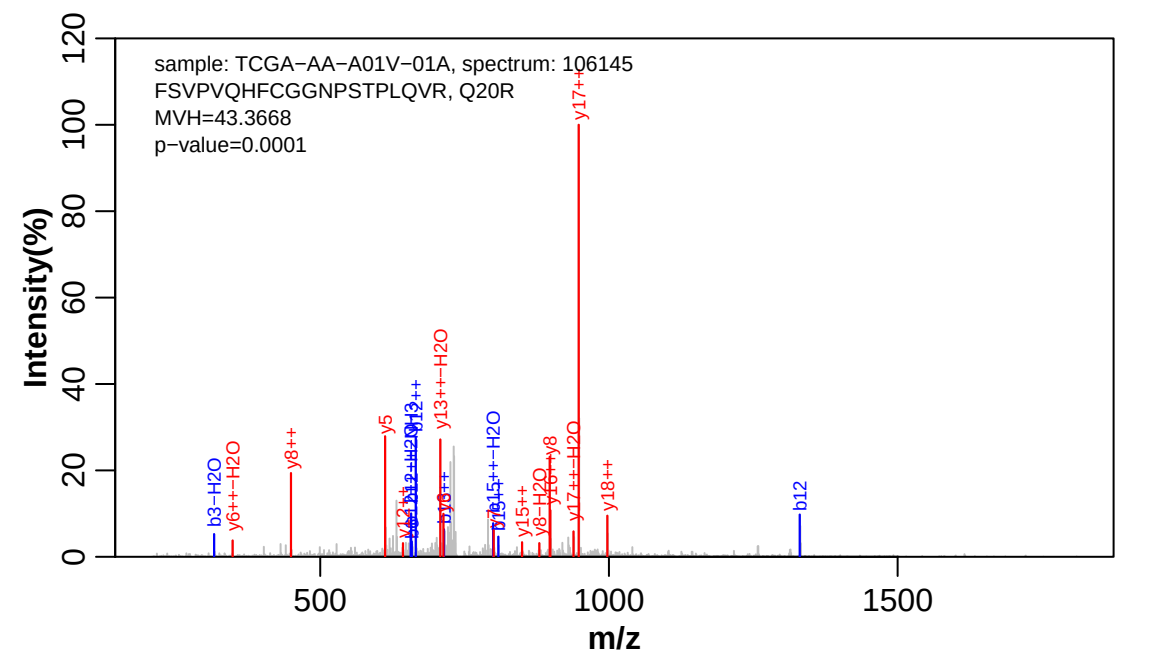

sample: TCGA−AA−A01V−01A, spectrum: 63520
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=32.9525
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

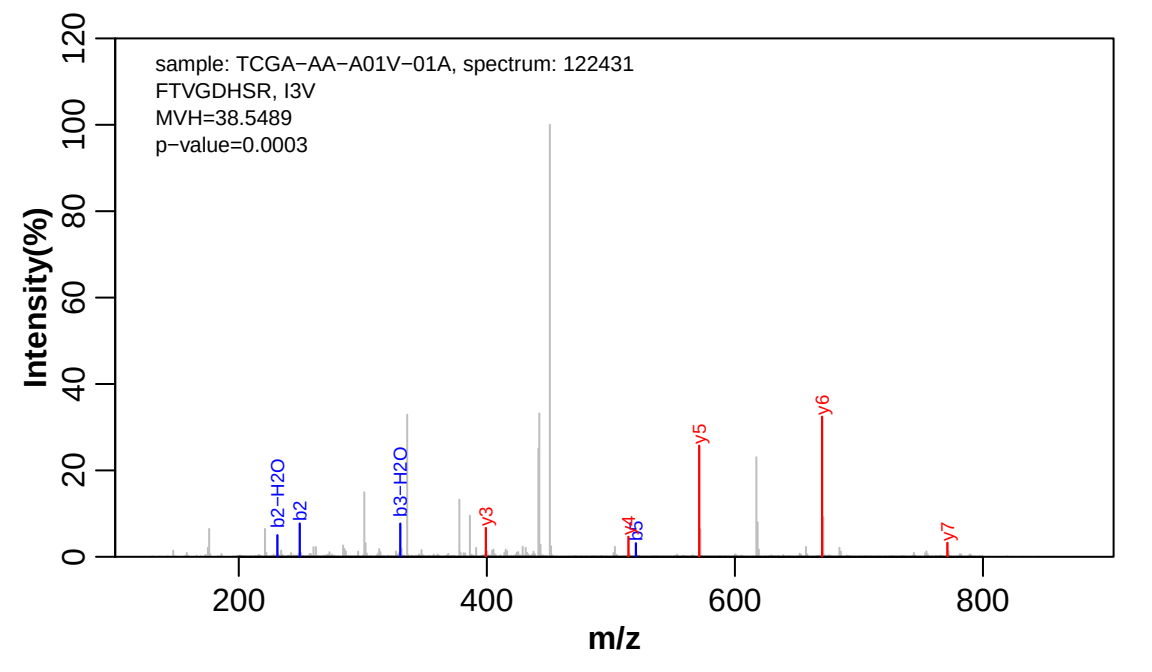

sample: TCGA−AA−A01V−01A, spectrum: 136564
EVSSSFDQVLK, H8Q
MVH=38.5545
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
y3
b4−H2O
b4
b5−H2O
b5
y4
y5−H2O
y5
b6
b7−H2O
b7
y6
y7−H2O
y7
b8−H2O
b8
y8
b9−H2O
b9−NH3
b9
y9
b10−H2O
b10−NH3
b10

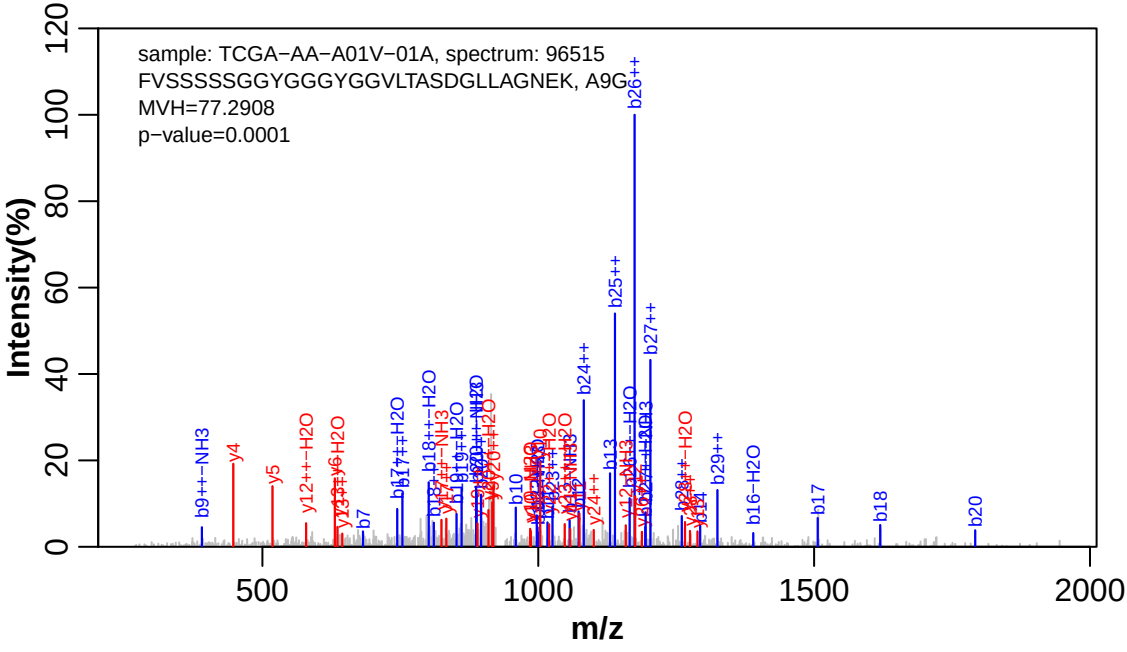

sample: TCGA−AA−A01V−01A, spectrum: 7394
FFGSLPDSWAR, S11R
MVH=38.7958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

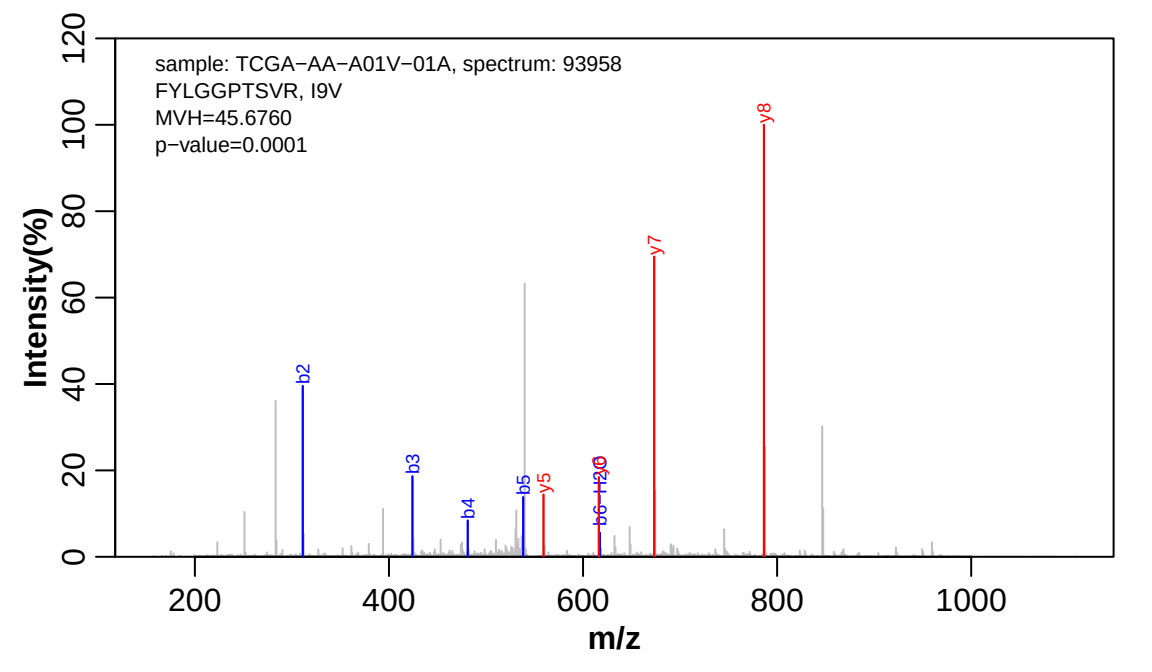

sample: TCGA−AA−A01V−01A, spectrum: 69783
FLDKLPQQTGDR, H12R
MVH=48.3335
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y10++
y10++−H2O
y11++
b2
y7++
b7++
y4
y9++
y6

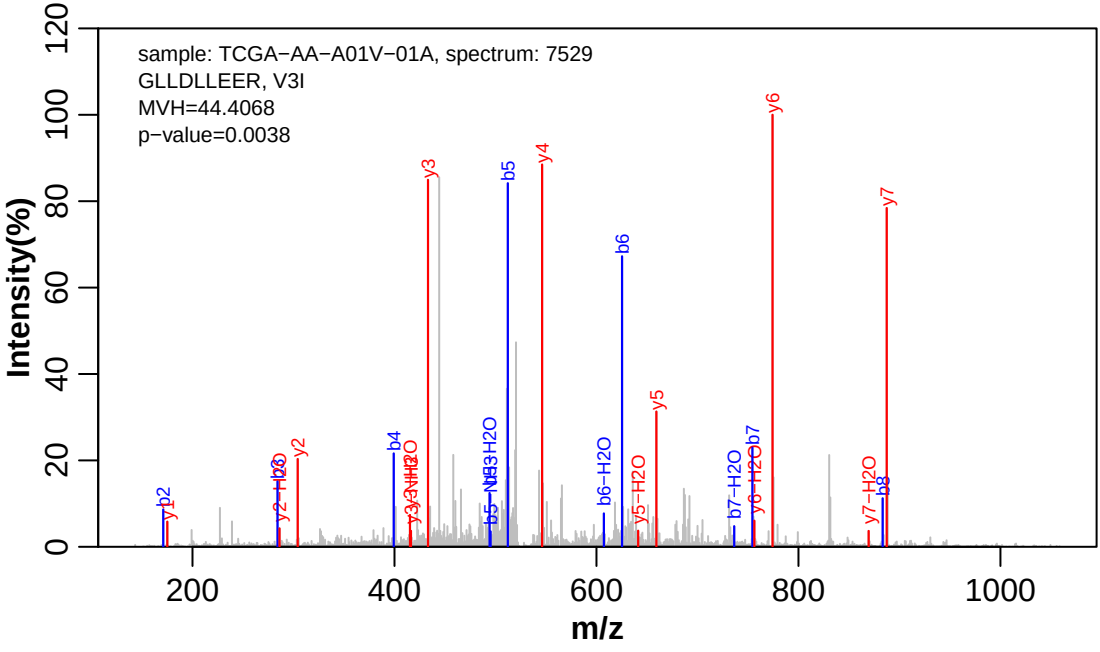

sample: TCGA−AA−A01V−01A, spectrum: 85316
FNLSQESSYLATQYSLRPR, S2N
MVH=28.8633
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y12-b6
y13++
y14++
y7-H2O
y15++
y16++-H2O
y16++
y17++-H2O
y17++
y18++

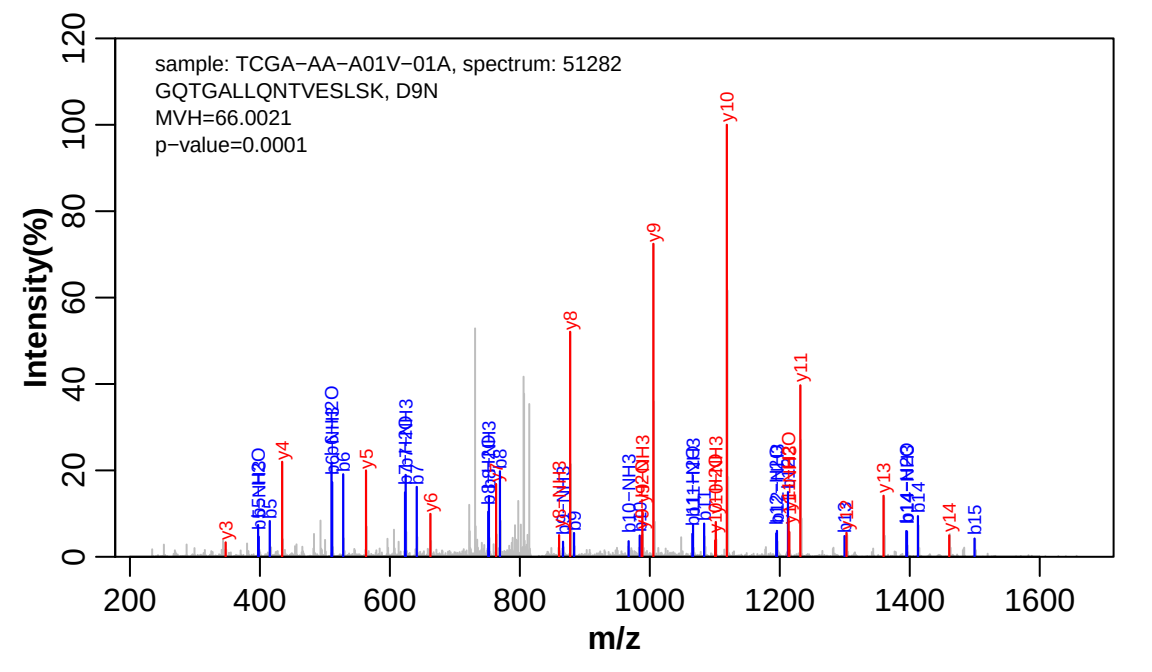

sample: TCGA−AA−A01V−01A, spectrum: 106145
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=43.3668
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y6++−H2O
y8++
y5
y13++−H2O
b15++−H2O
y15++
y8−H2O
y8++
y17++−H2O
y17++
y18++
b12

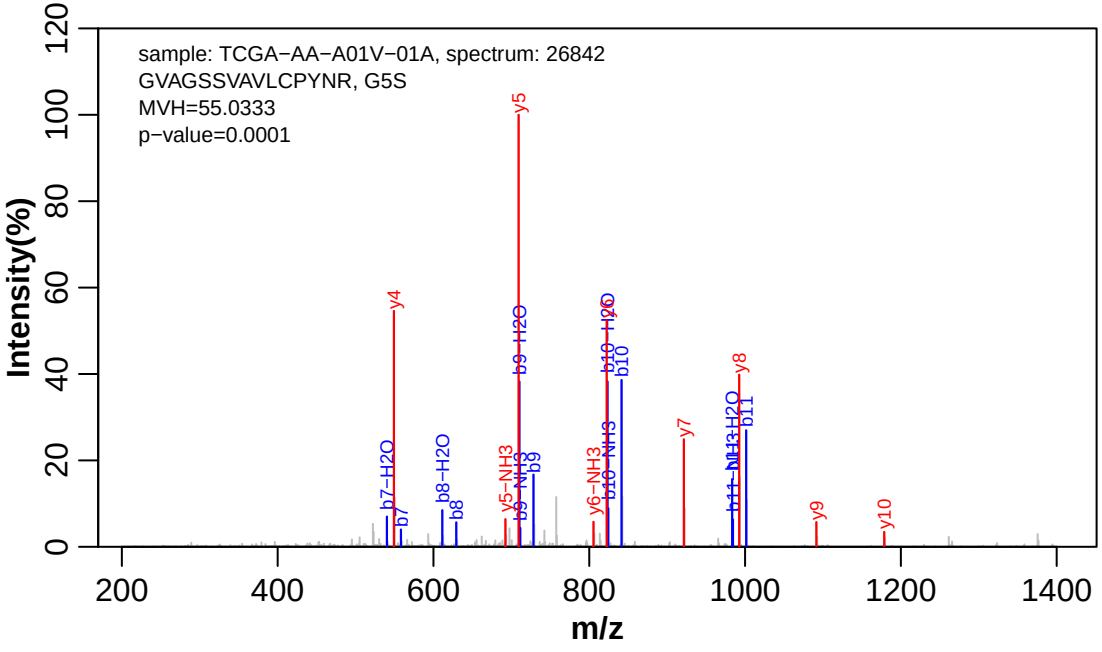

sample: TCGA−AA−A01V−01A, spectrum: 122431
FTVGDHSR, I3V
MVH=38.5489
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2
b3−H2O
y3
y4
b5
y5
y6
y7

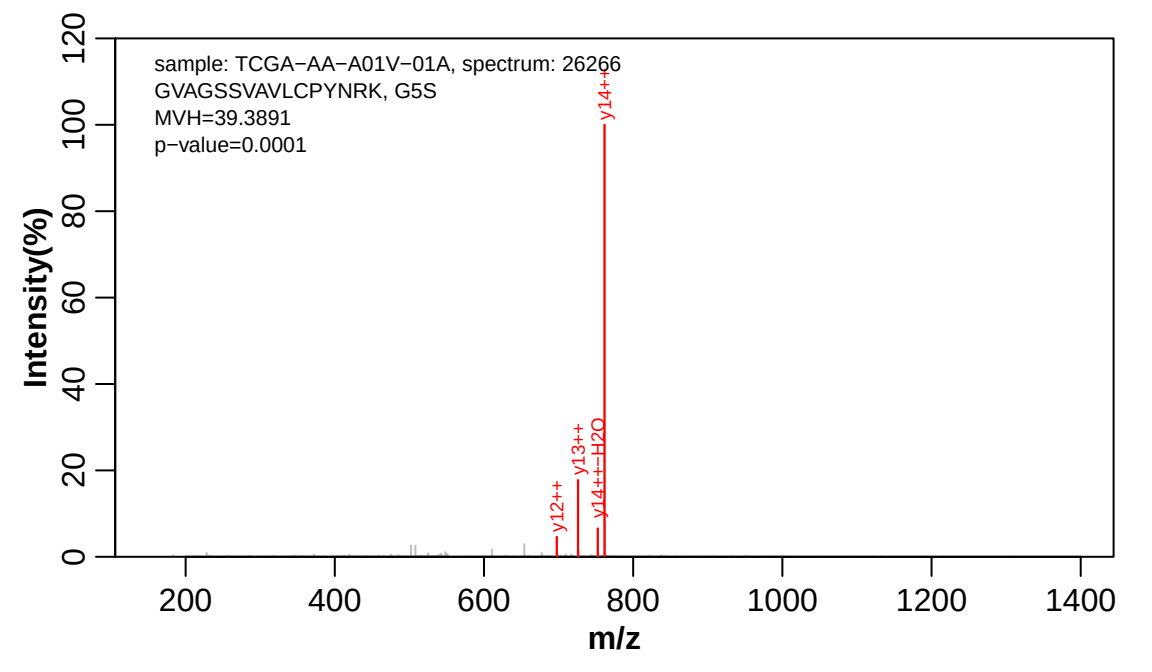

sample: TCGA−AA−A01V−01A, spectrum: 96515
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=77.2908
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b26++
b25++
b27++
b24++
b9++−NH3
y4
y5
y12++−H2O
b7
b17++−H2O
b18++−H2O
b29++
b16−H2O
b17
b18
b20

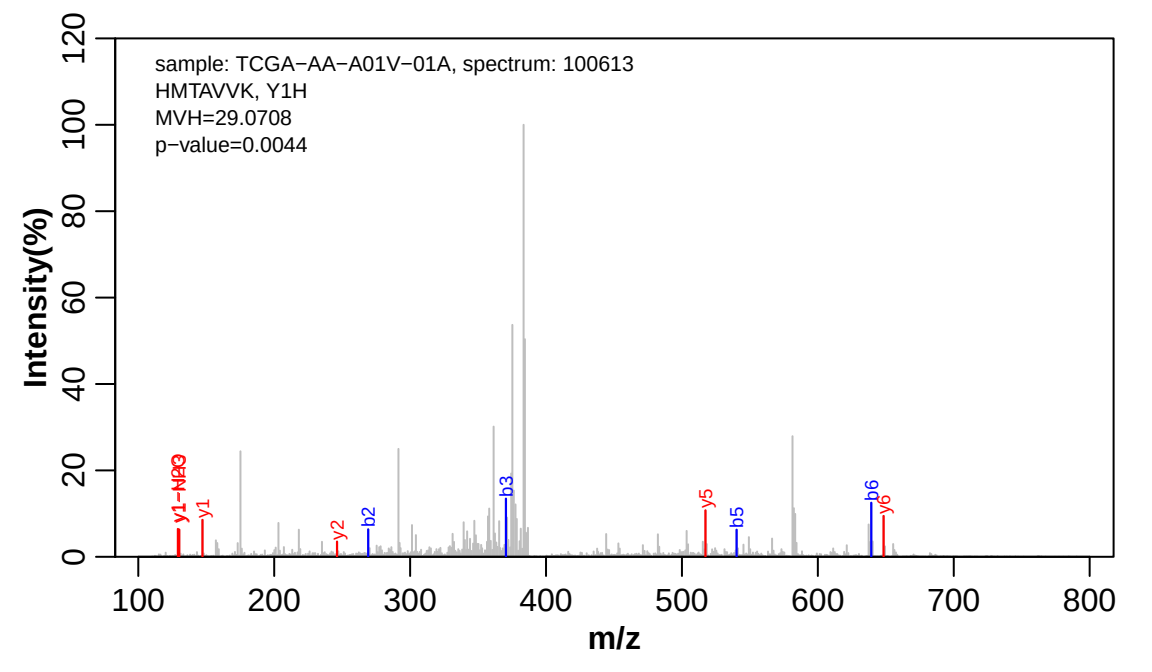

sample: TCGA−AA−A01V−01A, spectrum: 93958
FYLGGPTSVR, I9V
MVH=45.6760
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

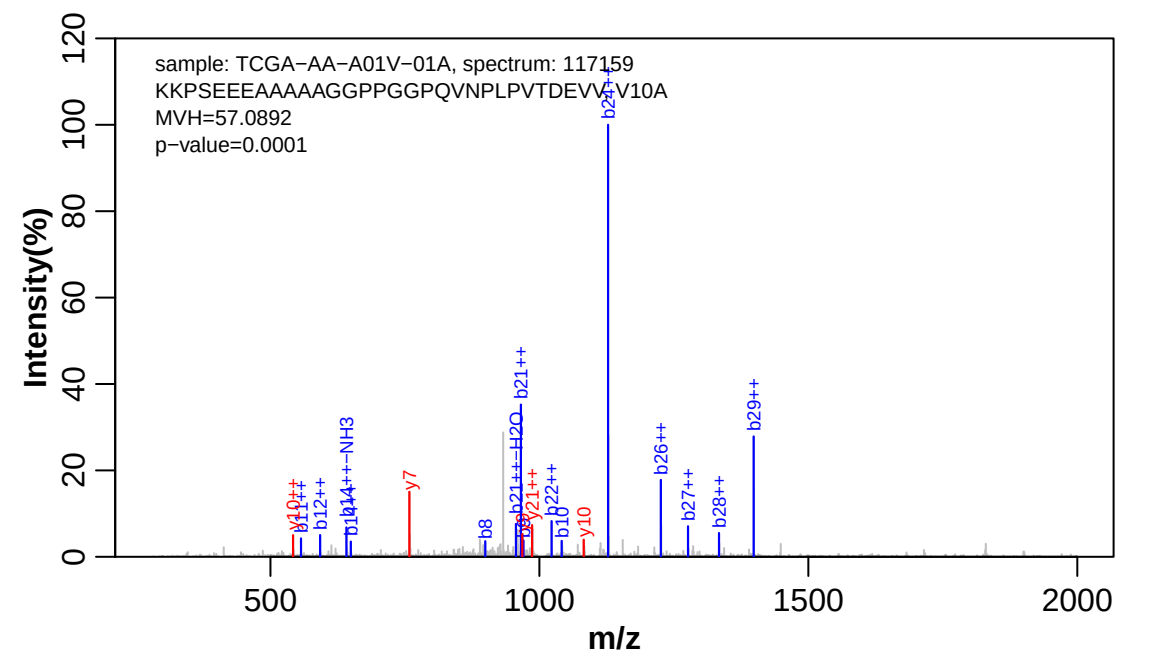

sample: TCGA−AA−A01V−01A, spectrum: 7529
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
y2−H2O
b4
y3
b5
y4
b5−H2O
b6
b6−H2O
y5
y5−H2O
b7
b7−H2O
y6
y6−H2O
y7
y7−H2O
b8

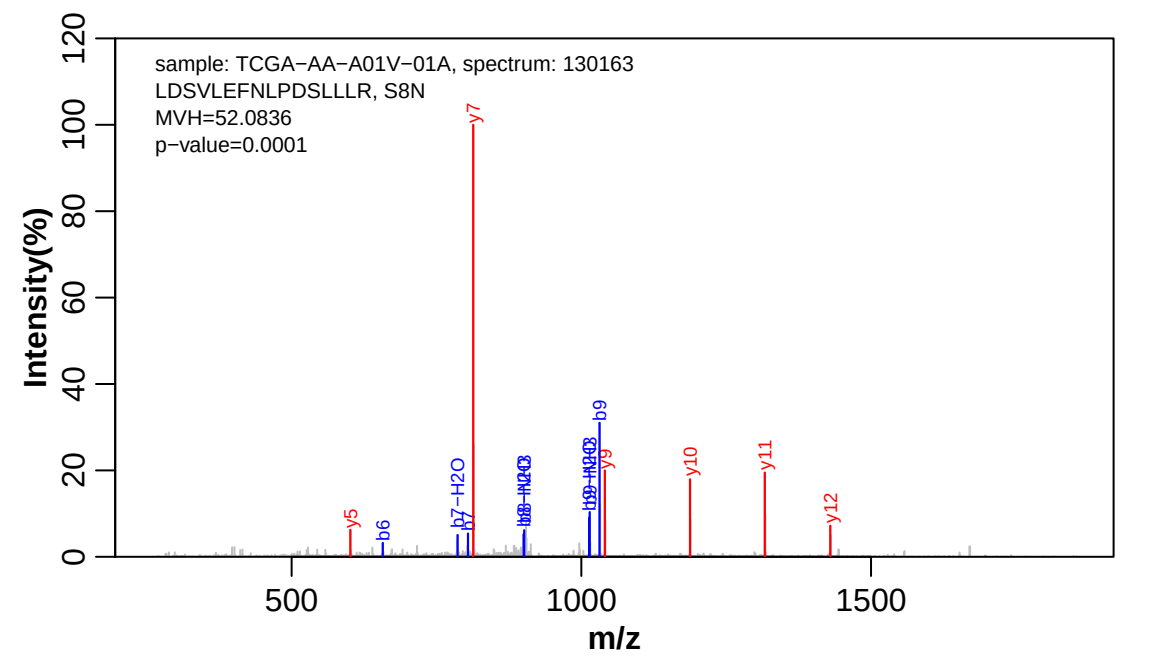

sample: TCGA−AA−A01V−01A, spectrum: 51282
GQTGALLQNTVESLSK, D9N
MVH=66.0021
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y4
y5
y6
y3
y13
y14
b15

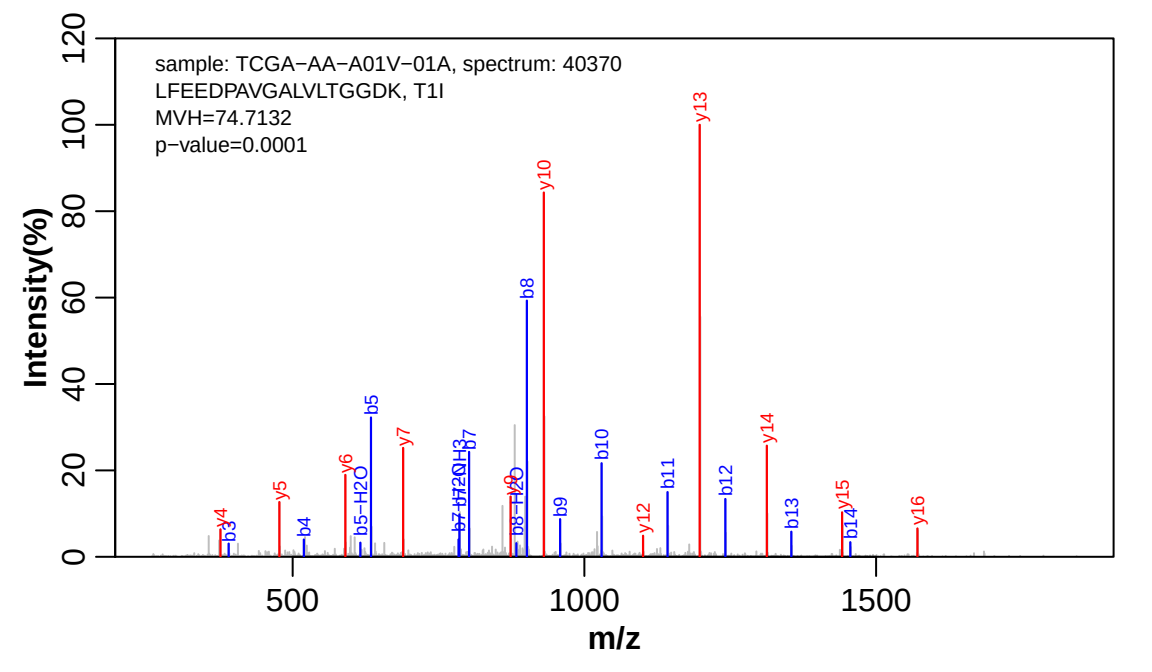

sample: TCGA−AA−A01V−01A, spectrum: 26842
GVAGSSVAVLCPYNR, G5S
MVH=55.0333
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
b11
y7
b7−H2O
b8−H2O
y5−NH3
b9
y6−NH3
b10−NH3
b7
b8
y9
y10

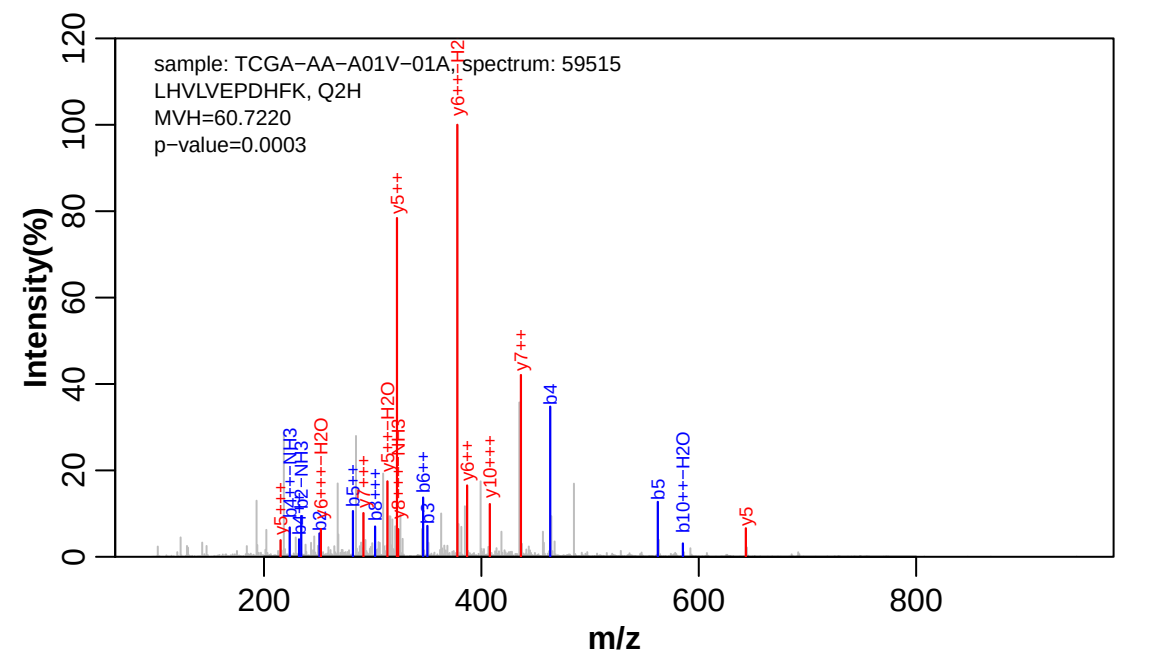

sample: TCGA−AA−A01V−01A, spectrum: 26266
GVAGSSVAVLCPYNRK, G5S
MVH=39.3891
p−value=0.0001
y14++
y13++
y14++−H2O
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

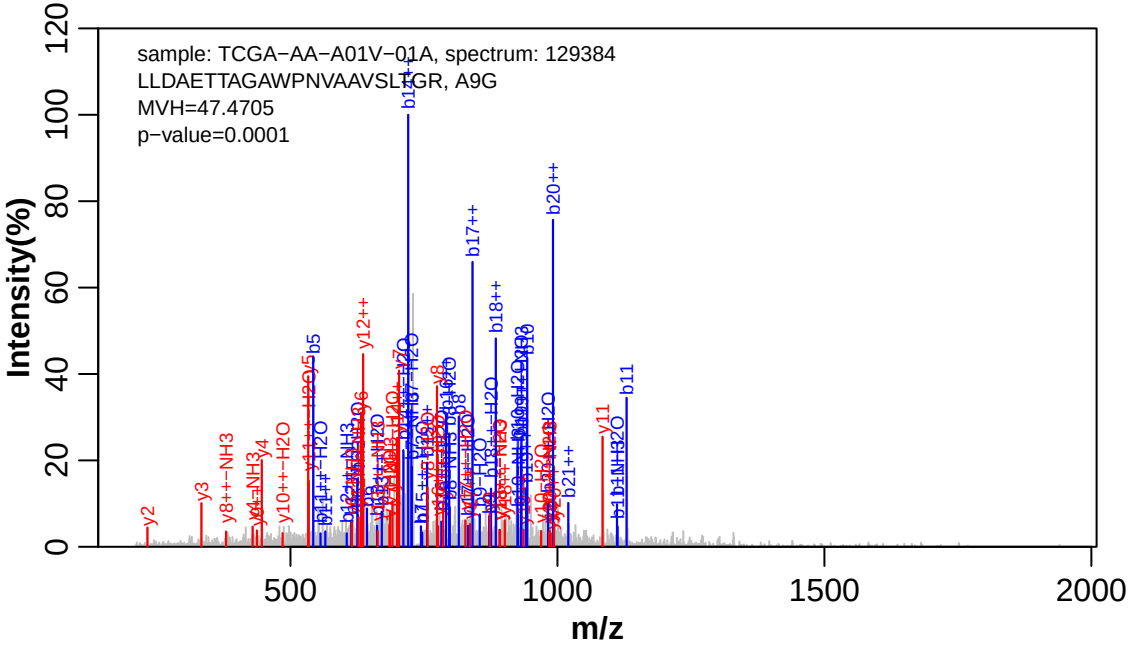

sample: TCGA−AA−A01V−01A, spectrum: 100613
HMTAVVK, Y1H
MVH=29.0708
p−value=0.0044
Intensity(%)
m/z
y1-NH3
y1
y2
b2
b3
y5
b5
b6
y6

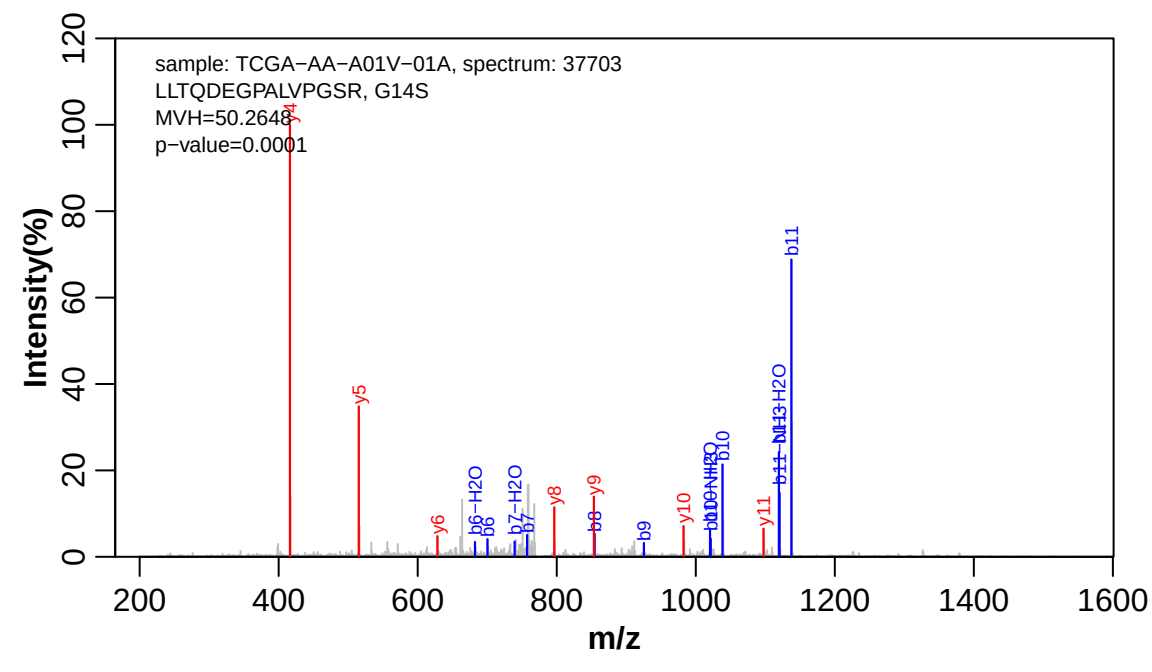

sample: TCGA−AA−A01V−01A, spectrum: 117159
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=57.0892
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−H2O
b21++−NH3
y21++
y7
y10++
b11++
b12++
b14++
b8
b9
b10
b22++
y10
b26++
b27++
b28++
b29++

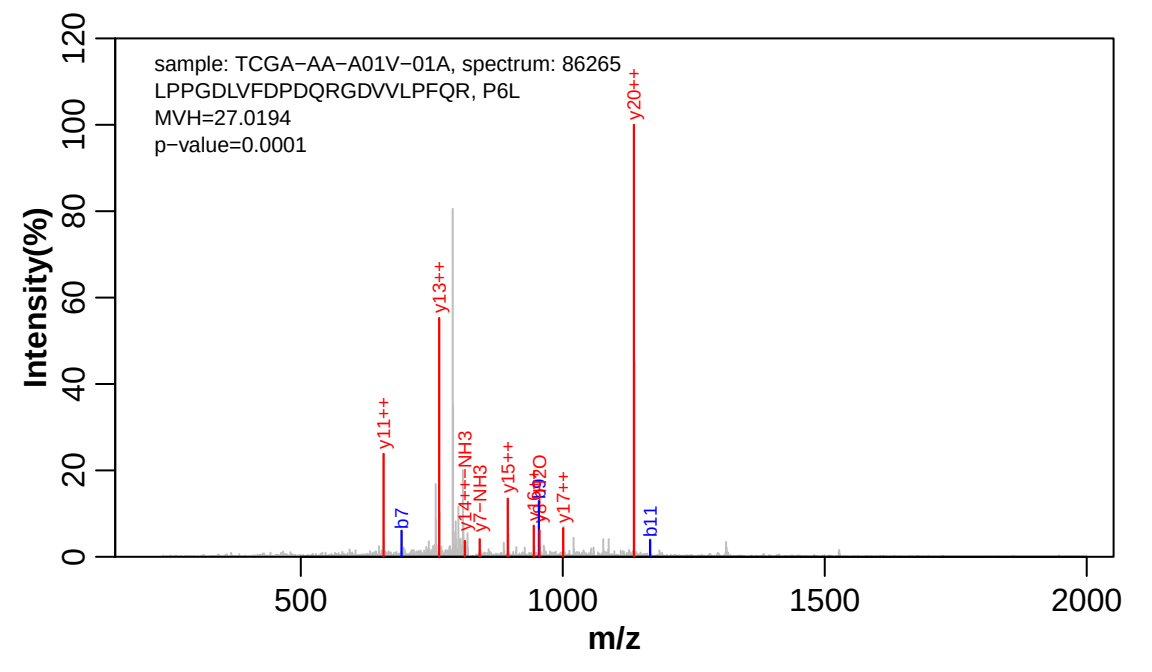

sample: TCGA−AA−A01V−01A, spectrum: 130163
LDSVLEFNLPDSLLLR, S8N
MVH=52.0836
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y5
b6
b7−H2O
b9
y9
y10
y11
y12

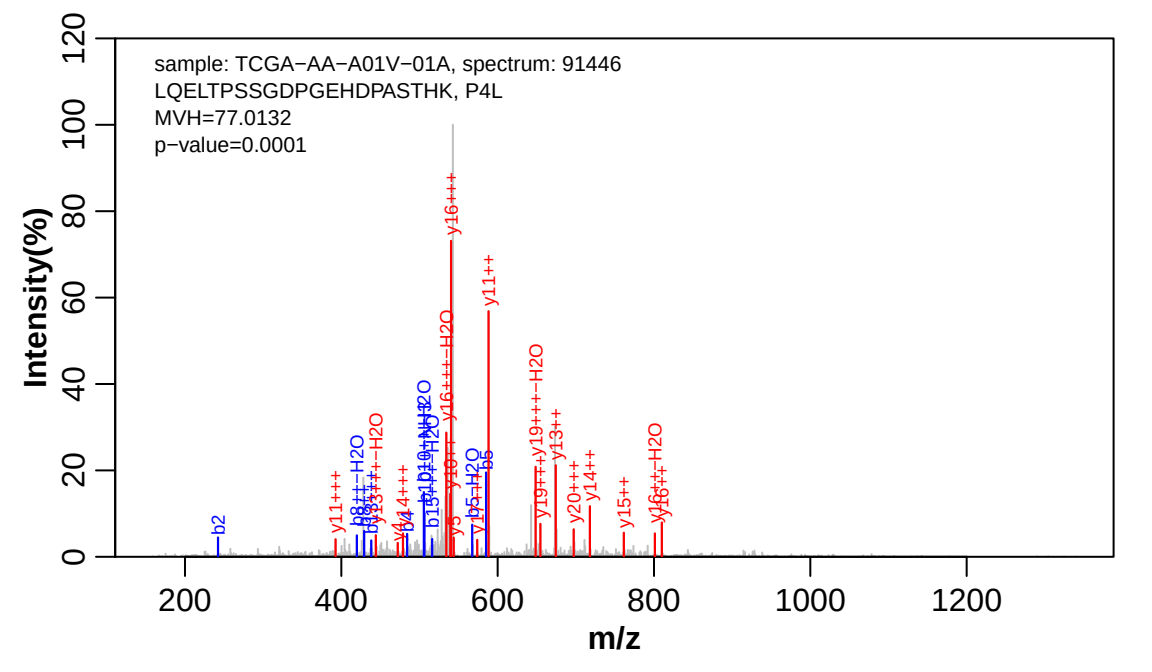

sample: TCGA−AA−A01V−01A, spectrum: 40370
LFEEDPAVGALVLTGGDK, T1I
MVH=74.7132
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
b7−H2O
b8−H2O
b8
y10
b9
y13
b10
y12
b11
b12
y14
b13
y15
b14
y16

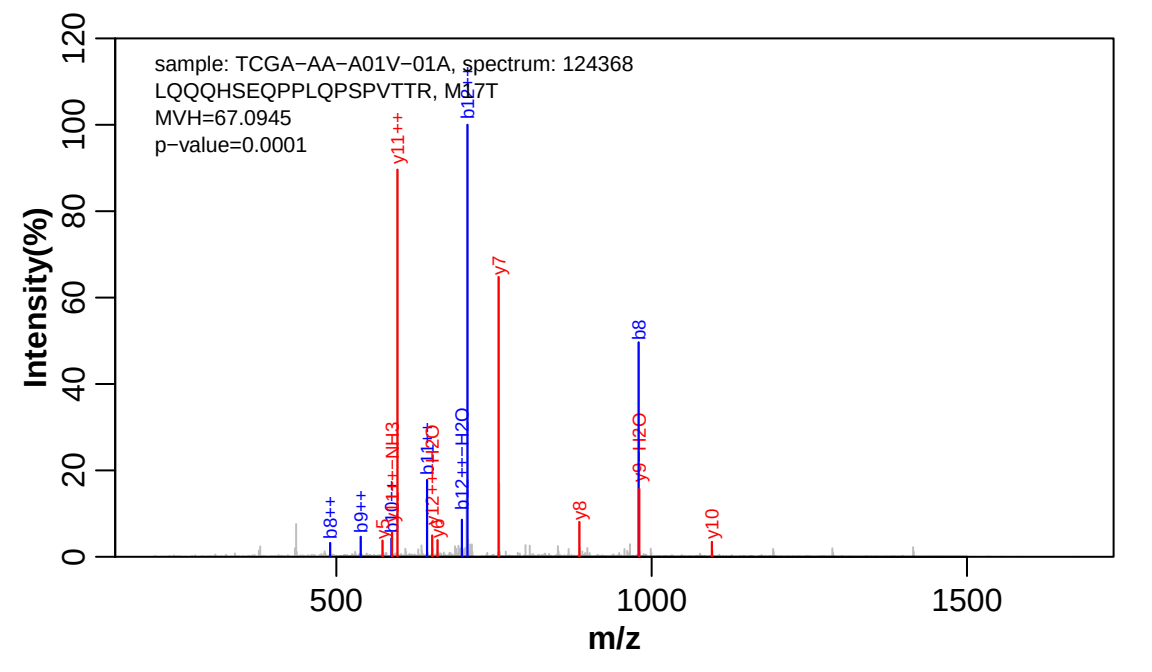

sample: TCGA−AA−A01V−01A, spectrum: 59515
LHVLVEPDHFK, Q2H
MVH=60.7220
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y6++−H2
y5++
y7++
b4
y5++−H2O
y6++−NH3
y6++
y10+++
b5
b10++−H2O
y5
y5+++
b4++−NH3
b2
b6+++−H2O
b5++
b8+++
y8++−NH3
b3
b6++

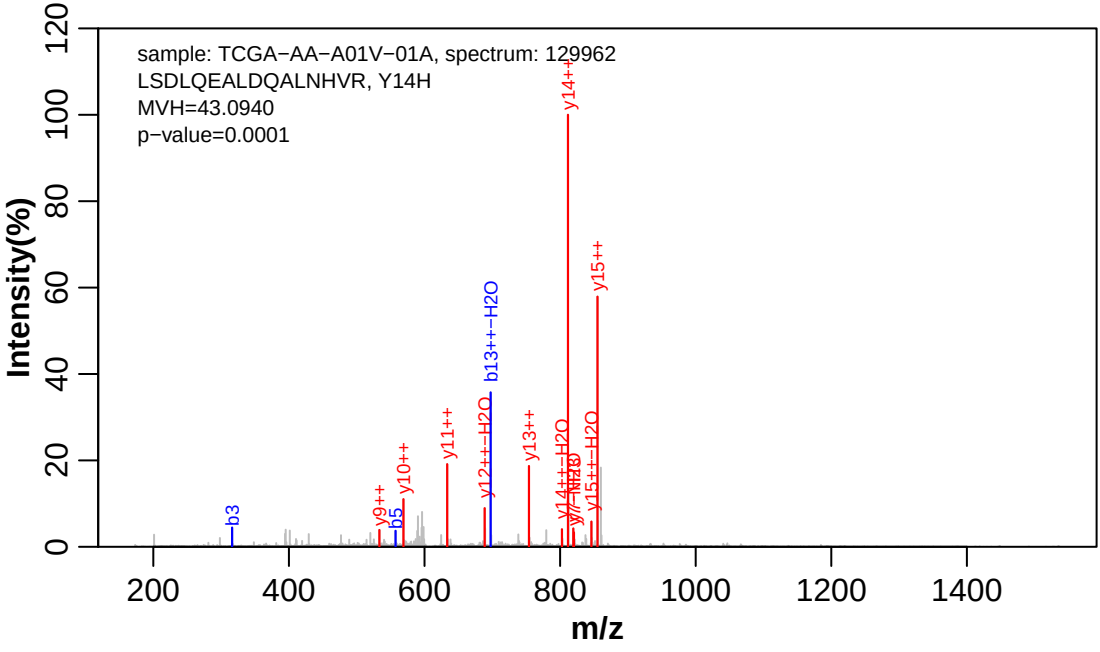

sample: TCGA−AA−A01V−01A, spectrum: 129384
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=47.4705
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y8++−NH3
y4
y4−NH3
y10++−H2O
y11++−H2O
b5
y12++
b11++
b17++
b18++
b20++
b21++
y11
b11−NH3−H2O
b11

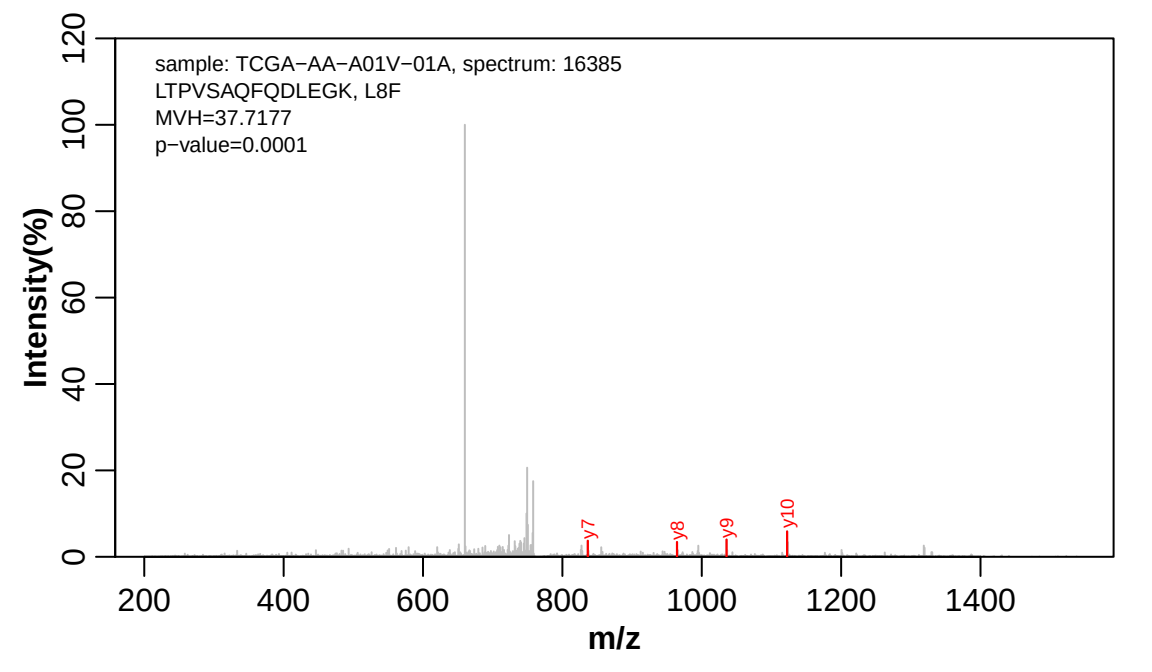

sample: TCGA−AA−A01V−01A, spectrum: 37703
LLTQDEGPALVPGSR, G14S
MVH=50.2648
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
b6−H2O
b6
b7−H2O
b7
y8
b8
y9
b9
y10
b10
y11
b11
b11−H2O

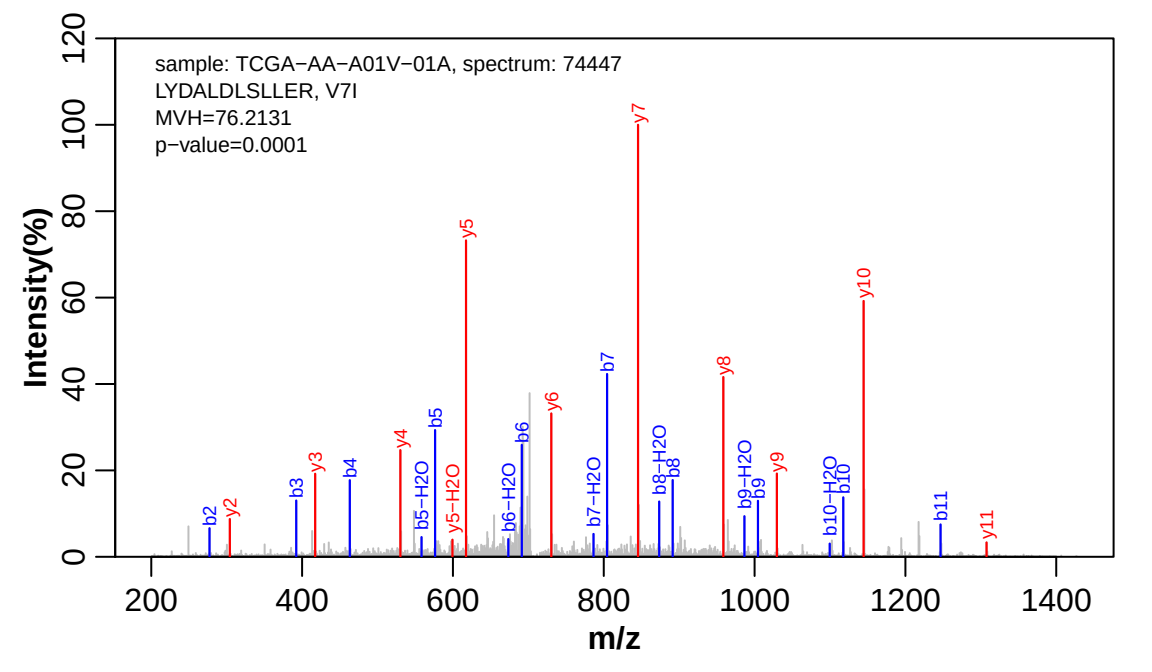

sample: TCGA−AA−A01V−01A, spectrum: 86265
LPPGDLVFDPDQRGDVVLPFQR, P6L
MVH=27.0194
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y20++
y13++
y11++
b7
y14++−NH3
y7−NH3
y15++
y16++−H2O
y17++
b11

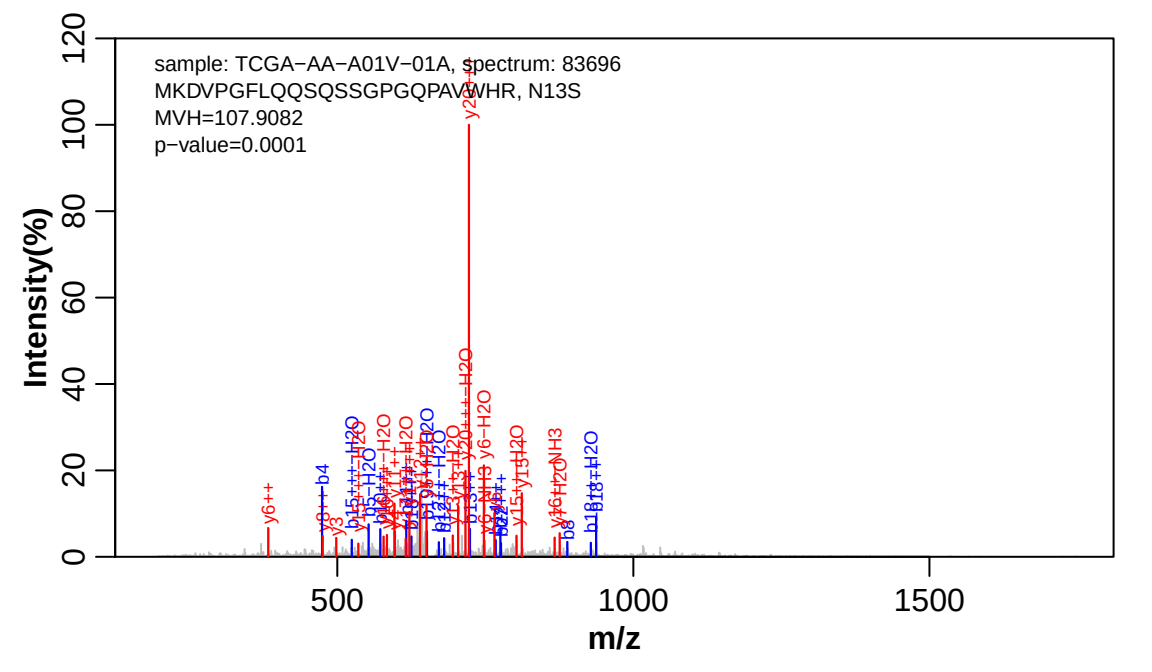

sample: TCGA−AA−A01V−01A, spectrum: 91446
LQELTPSSGDPGEHDPASTHK, P4L
MVH=77.0132
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y11+++
b8++−H2O
b8++
y13+++−H2O
y4+++
b4+++
b13+++−H2O
b13+++
y16+++−H2O
y16+++
y9
y11++
b5
y15++−H2O
y19+++−H2O
y19+++
y13++
y20+++
y14++
y15++
y16++−H2O

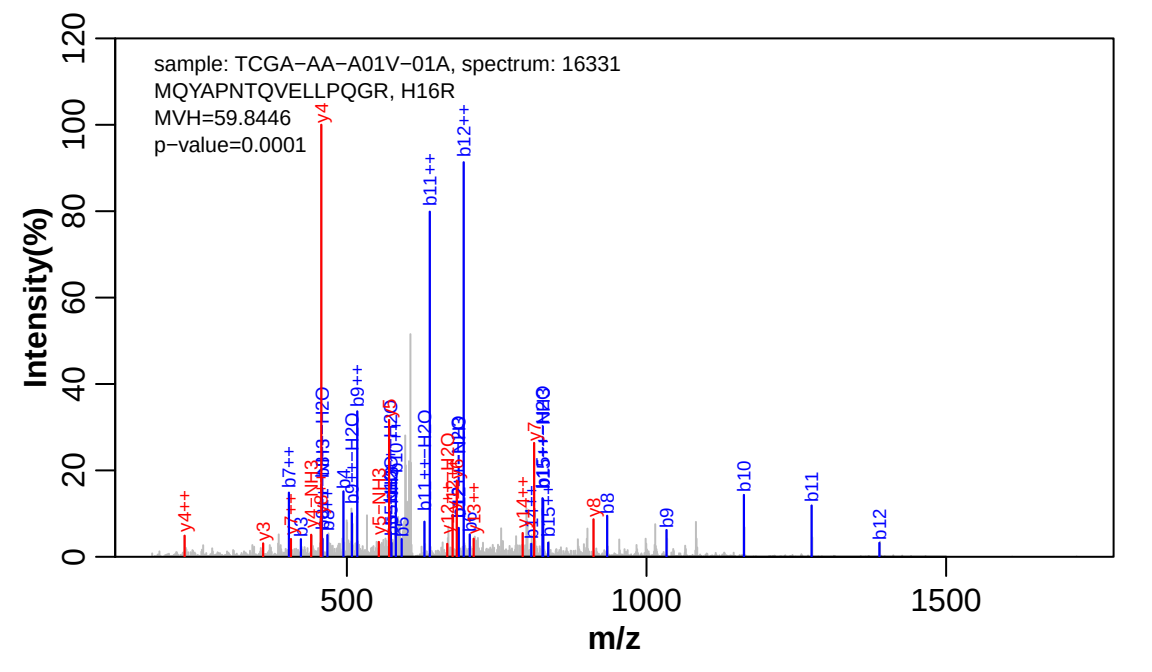

sample: TCGA−AA−A01V−01A, spectrum: 124368
LQQQHSEQPPLQPSPVTTR, M17T
MVH=67.0945
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++
b9++
y5
b10++−NH3
y11++
y12++
b11++
y9++−H2O
b12++−H2O
b10++
y7
y8
b8
y9++H2O
y10

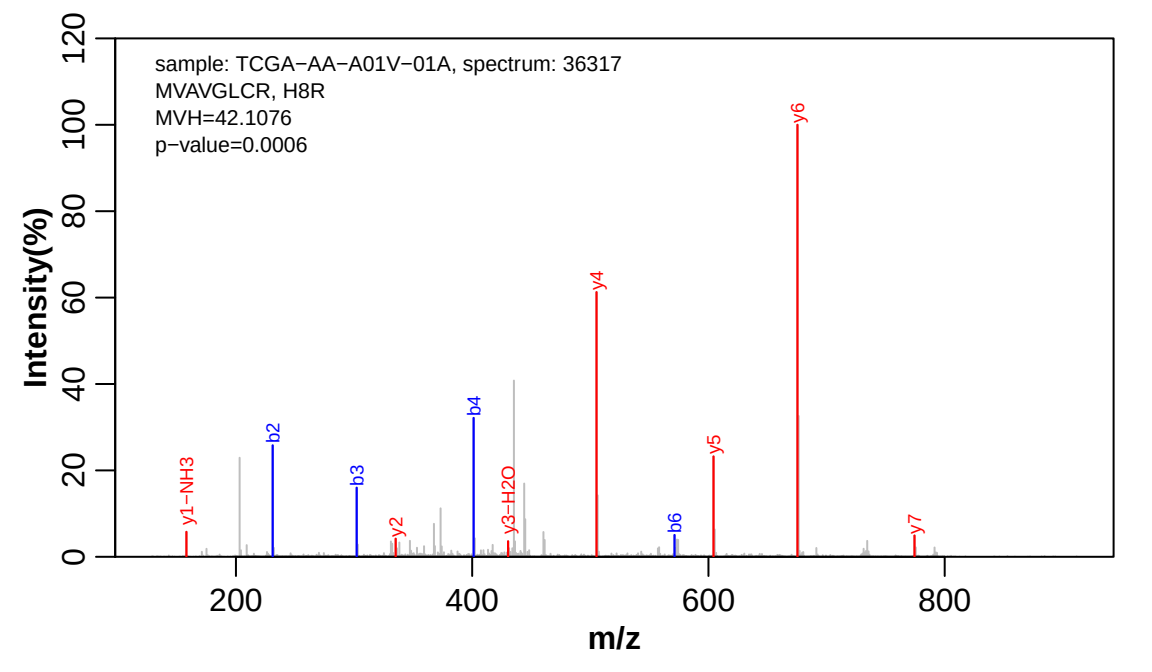

sample: TCGA−AA−A01V−01A, spectrum: 129962
LSDLQEALDQALNHVR, Y14H
MVH=43.0940
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++−NH3
y15++−H2O
y14++
y15++

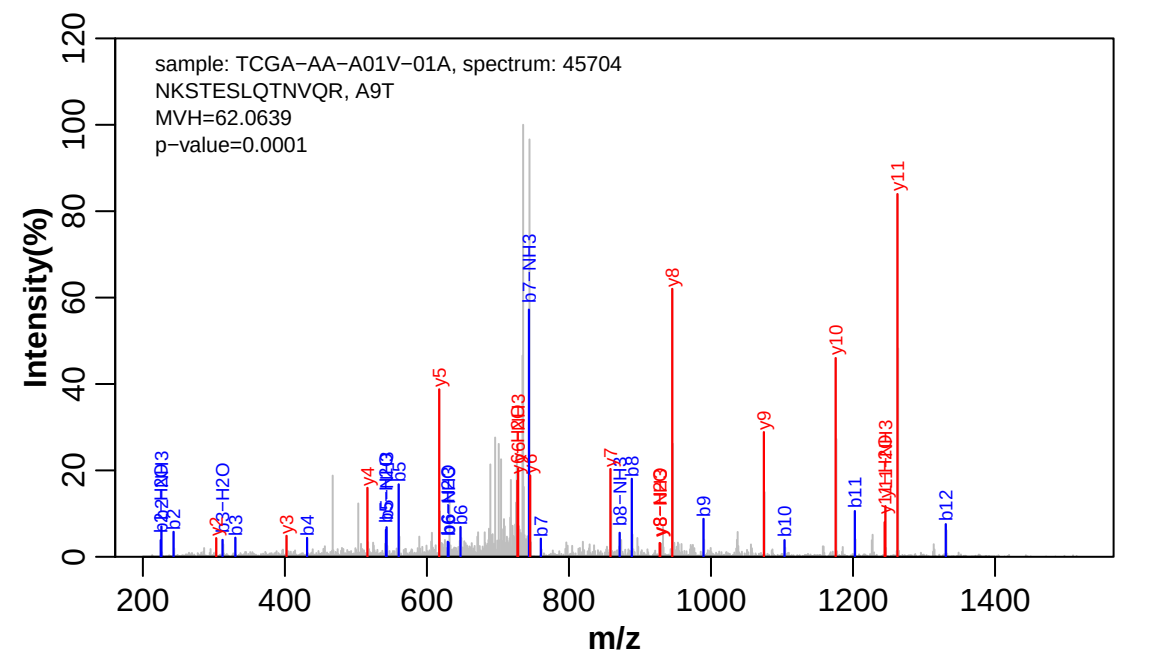

sample: TCGA−AA−A01V−01A, spectrum: 16385
LTPVSAQFQDLEGK, L8F
MVH=37.7177
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
y8
y9
y10

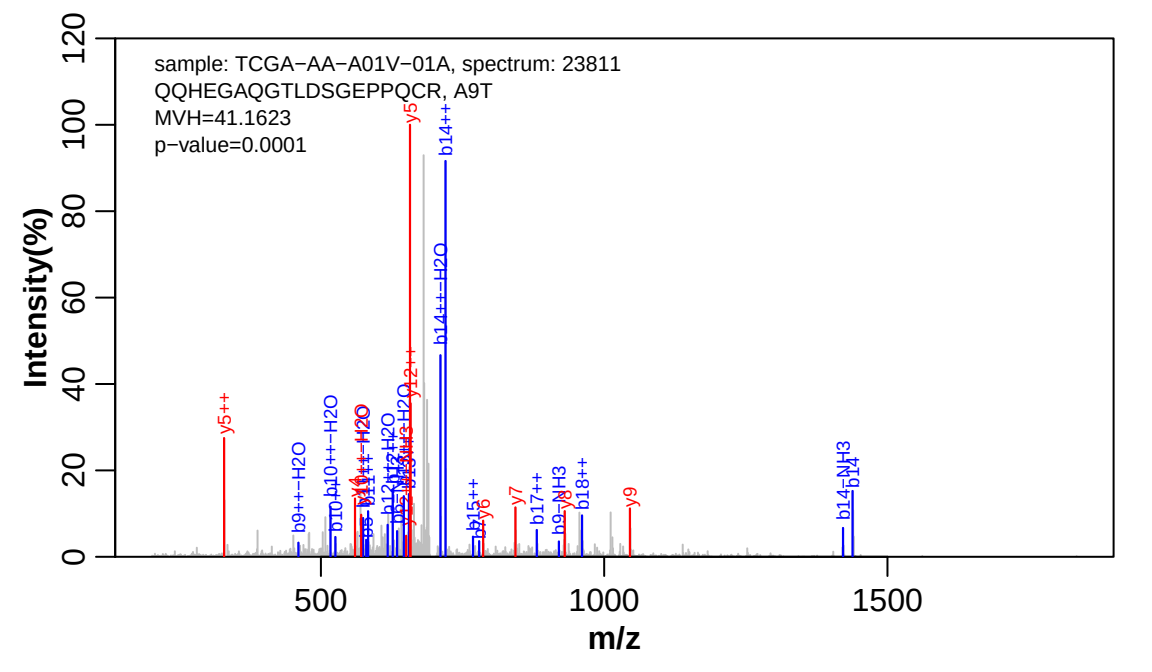

sample: TCGA−AA−A01V−01A, spectrum: 74447
LYDALDLSLLER, V7I
MVH=76.2131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
b5
b5−H2O
y5
y5−H2O
b6
b6−H2O
y6
b7
b7−H2O
y7
b8
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O
y10
b11
y11

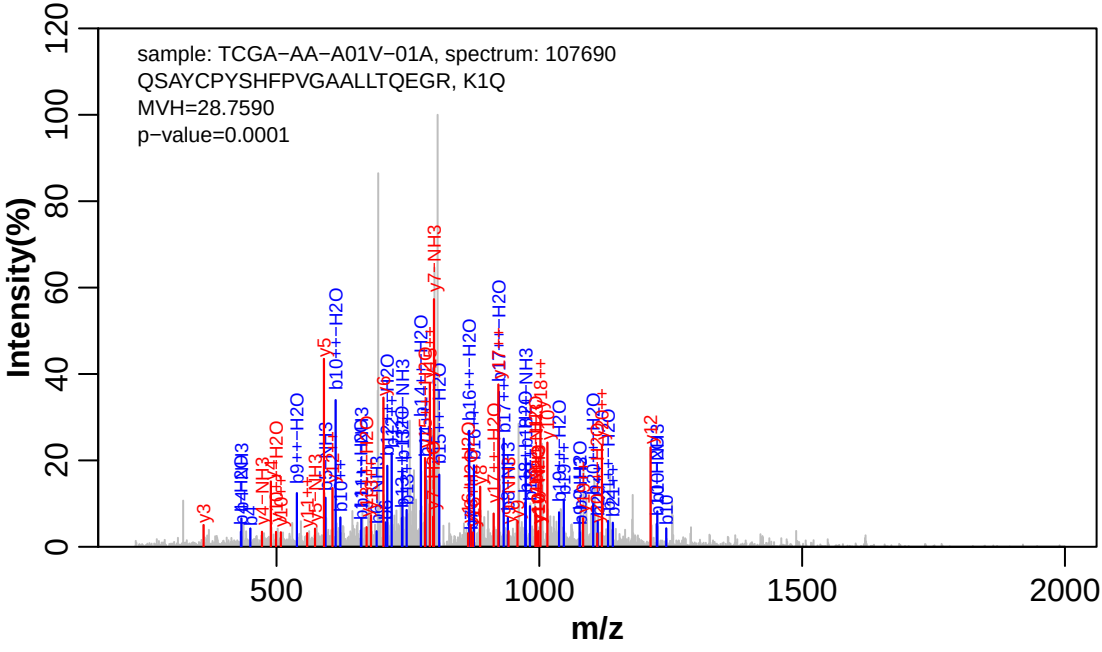

sample: TCGA−AA−A01V−01A, spectrum: 83696
MKDVPGFLQQSQSSGPGQPAVGWHR, N13S
MVH=107.9082
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6++
y2++
y6−H2O
y6−NH3
y15++−H2O
y15++
y15+−H2O
y15+
y15+−NH3
y15+−H2O
y15+−H2O
y15+−H2O

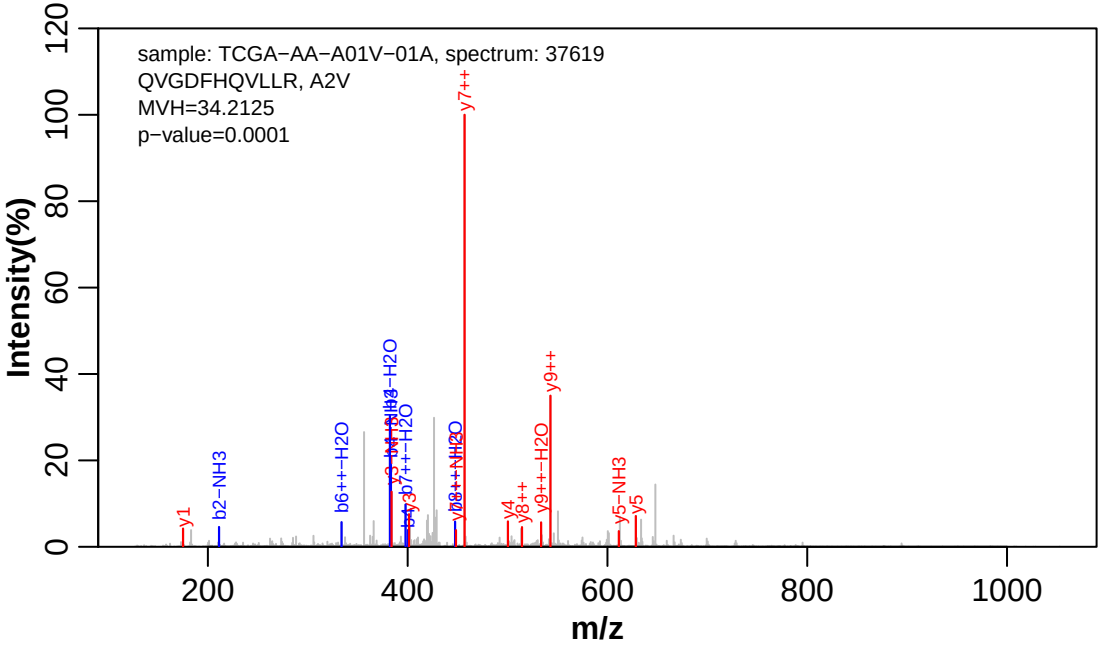

sample: TCGA−AA−A01V−01A, spectrum: 16331
MQYAPNTQVELLPQGR, H16R
MVH=59.8446
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b12++
b11++
b9++
y4++
y3
b7++
b10
b11
b12
b8
b9
y8

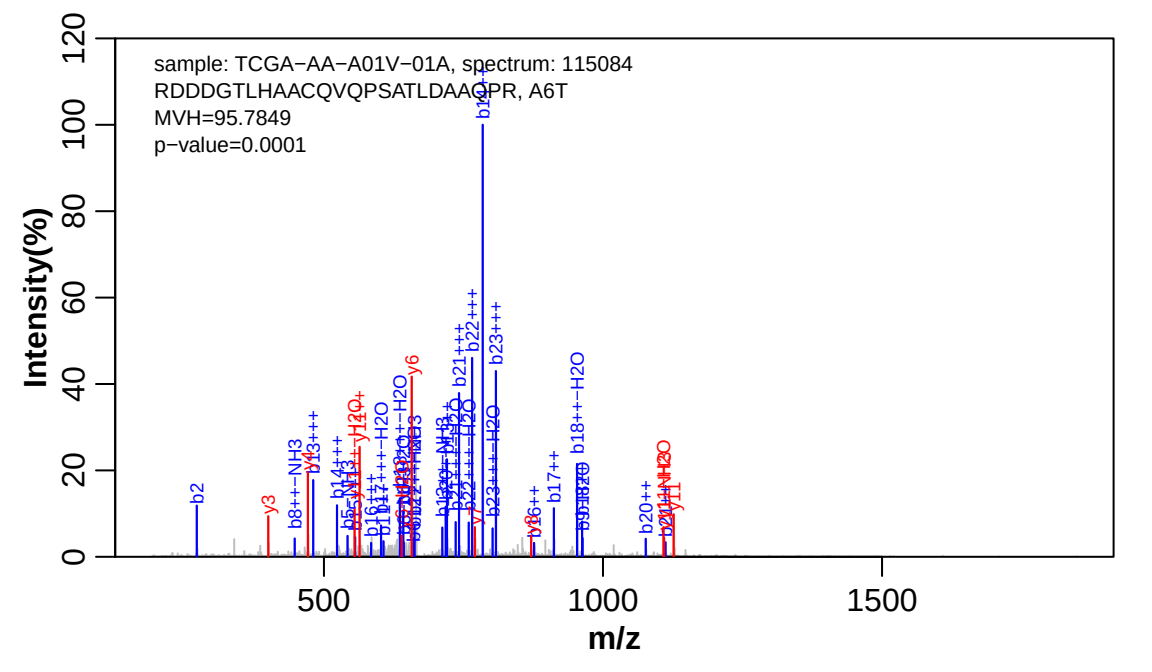

sample: TCGA−AA−A01V−01A, spectrum: 36317
MVAVGLCR, H8R
MVH=42.1076
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y3−H2O
y4
b6
y5
y6
y7

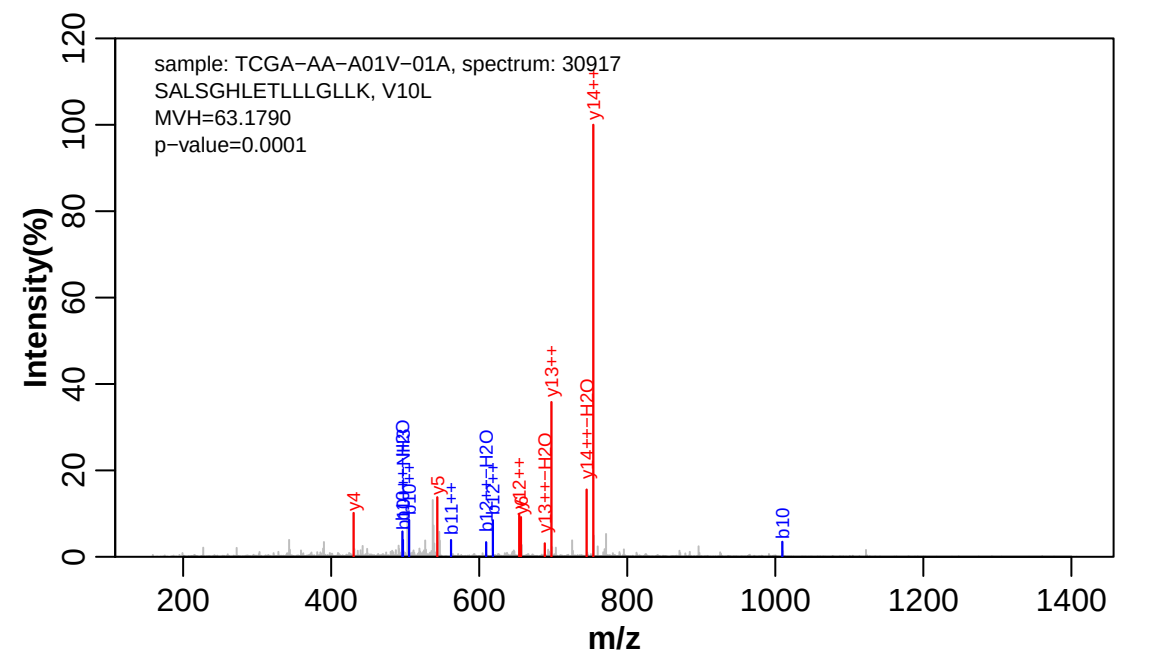

sample: TCGA−AA−A01V−01A, spectrum: 45704
NKSTESLQTNVQR, A9T
MVH=62.0639
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7−NH3
y8
y11
y10
y9
y5
b11
b12
b10
b9
b8−NH3
b7
y4
y3
b4
b3
b2
b5
y7
b8
y8−NH3
y11−H2O−NH3
y2−H2O

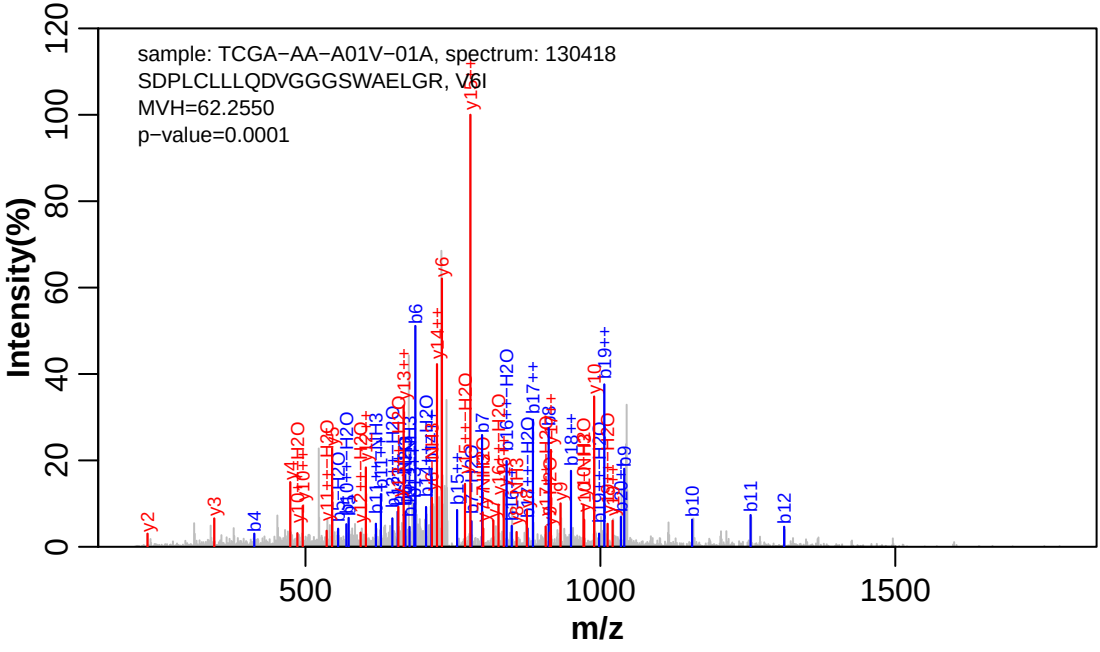

sample: TCGA−AA−A01V−01A, spectrum: 23811
QQHEGAQGTLDSGEPPQCR, A9T
MVH=41.1623
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
b14++
y5++
b14++−H2O
b9++−H2O
b10++−H2O
y12++
b14++−NH3
b14−NH3
b18++
y9
y7
b17++
b9−NH3
b15++
y6

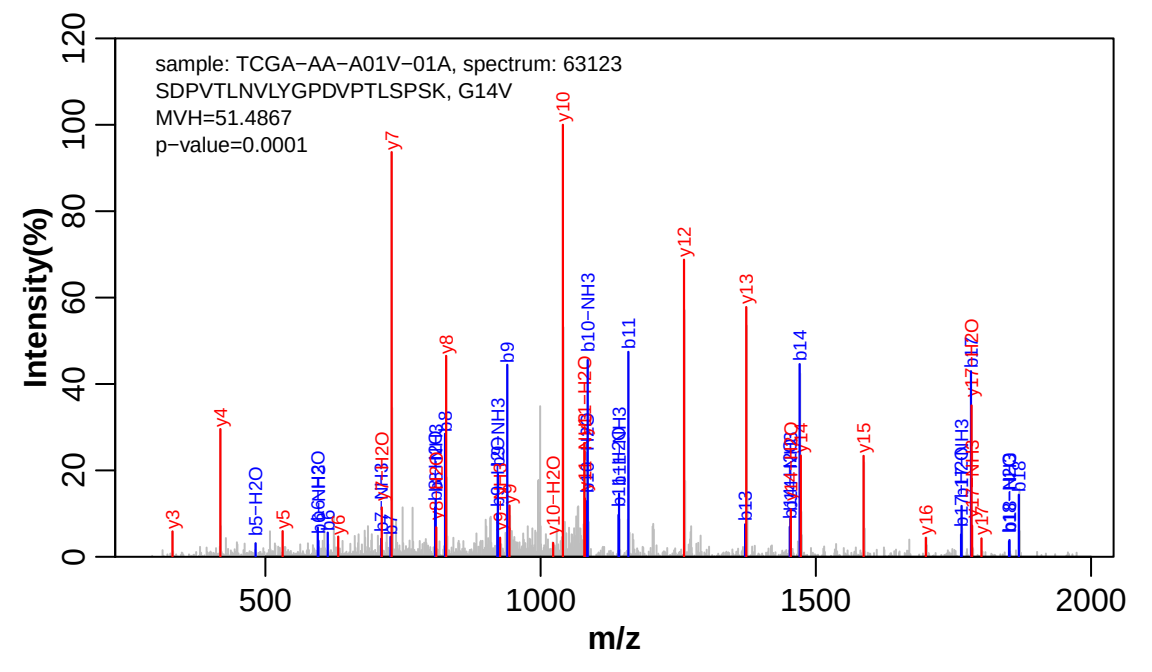

sample: TCGA−AA−A01V−01A, spectrum: 107690
QSAYCPYSHFPVGAALLTQEGR, K1Q
MVH=28.7590
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

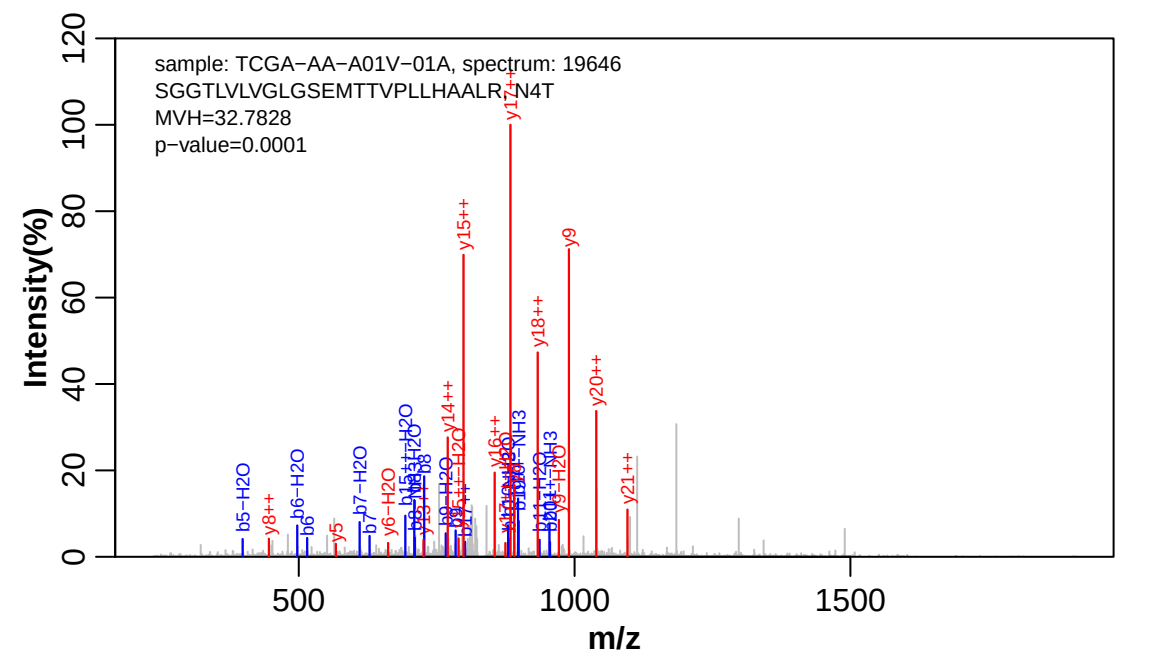

sample: TCGA−AA−A01V−01A, spectrum: 37619
QVGDFHQVLLR, A2V
MVH=34.2125
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2−NH3
b6++−H2O
y7++
y9++
y9++−H2O
y5−NH3
y5
y4
y8++
y7++−H2O
y8++−NH2O
b7++−H2O
b7++−NH3−H2O

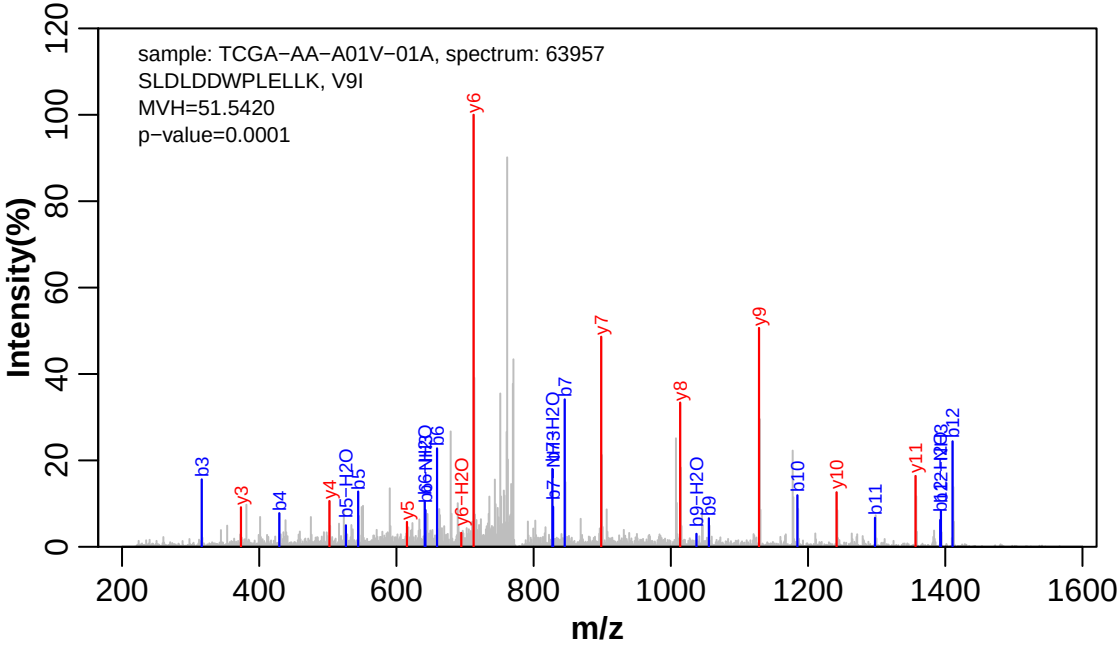

sample: TCGA−AA−A01V−01A, spectrum: 115084
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=95.7849
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b8++−NH3
y4
b3+++
b14+++
b5−NH3
y5++
y12++−H2O
b16+++
b17+++−H2O
b21+++
b22+++
b23+++
y6
b14++
b18++−H2O
b17++
y16++
b20++
y11

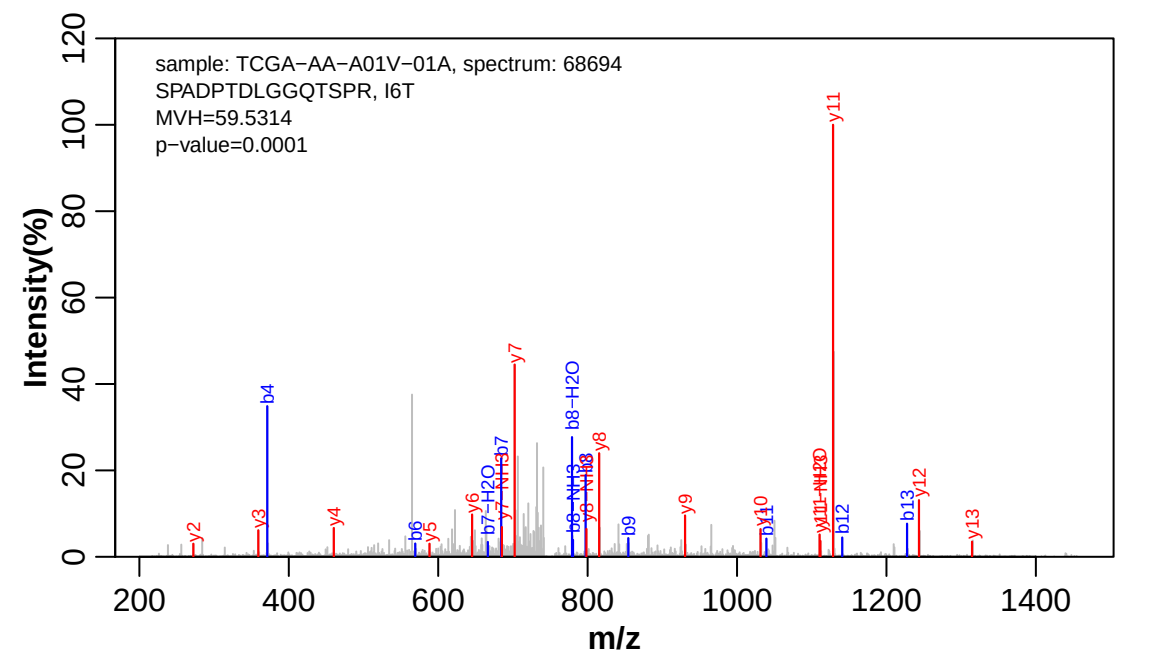

sample: TCGA−AA−A01V−01A, spectrum: 30917
SALSGHLETLLLGLLK, V10L
MVH=63.1790
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
y12++
y5
y4
b11++
b12++−H2O
b10
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

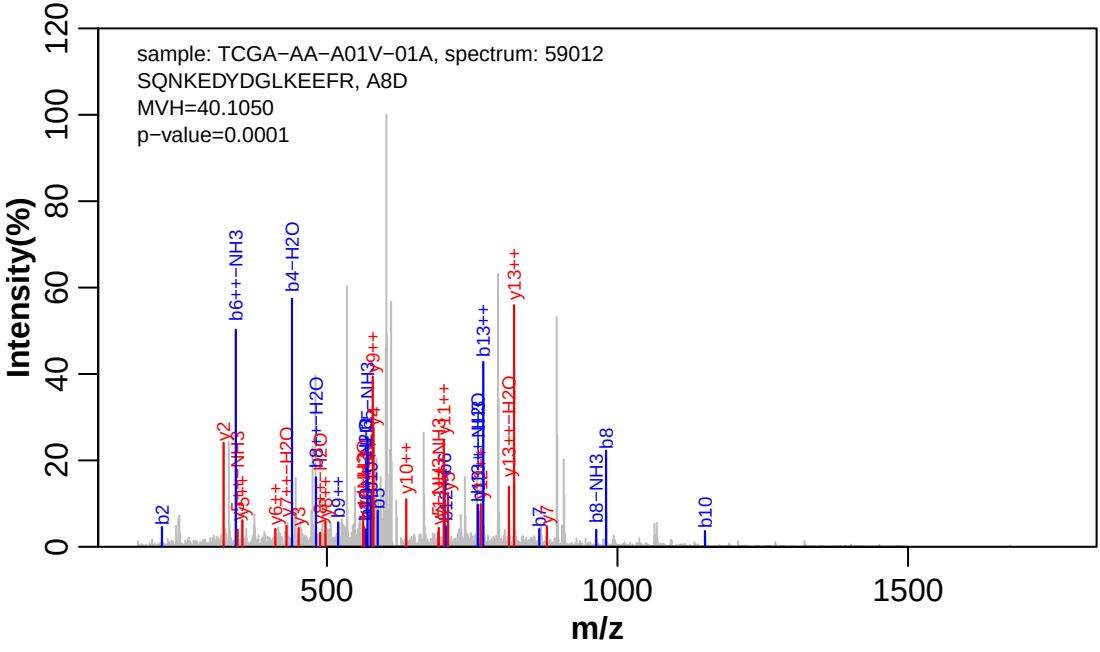

sample: TCGA−AA−A01V−01A, spectrum: 130418
SDPLCLLLQDVGGGSWAELGR, V6I
MVH=62.2550
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4
y6
b6
y14++
y16++
b10
b11
b12
b19++

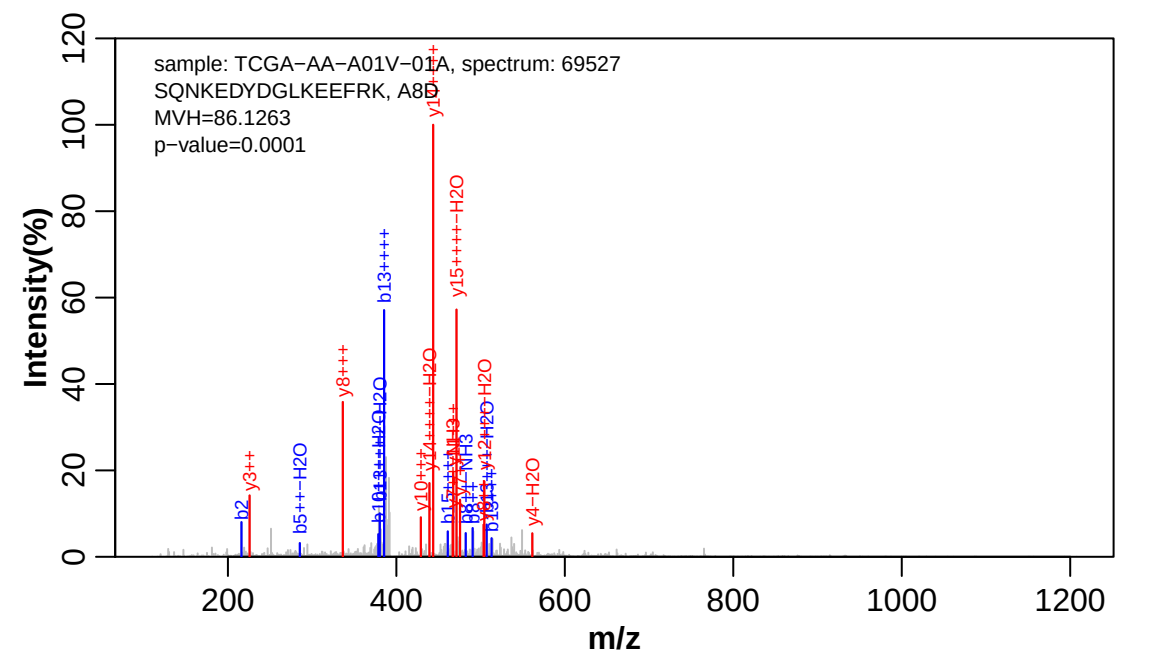

sample: TCGA−AA−A01V−01A, spectrum: 63123
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=51.4867
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b5−H2O
y5
y6
y7
y8
b9
y10
y10−H2O
b10−NH3
y12
b11
y13
b14
y15
y16
y17
b18

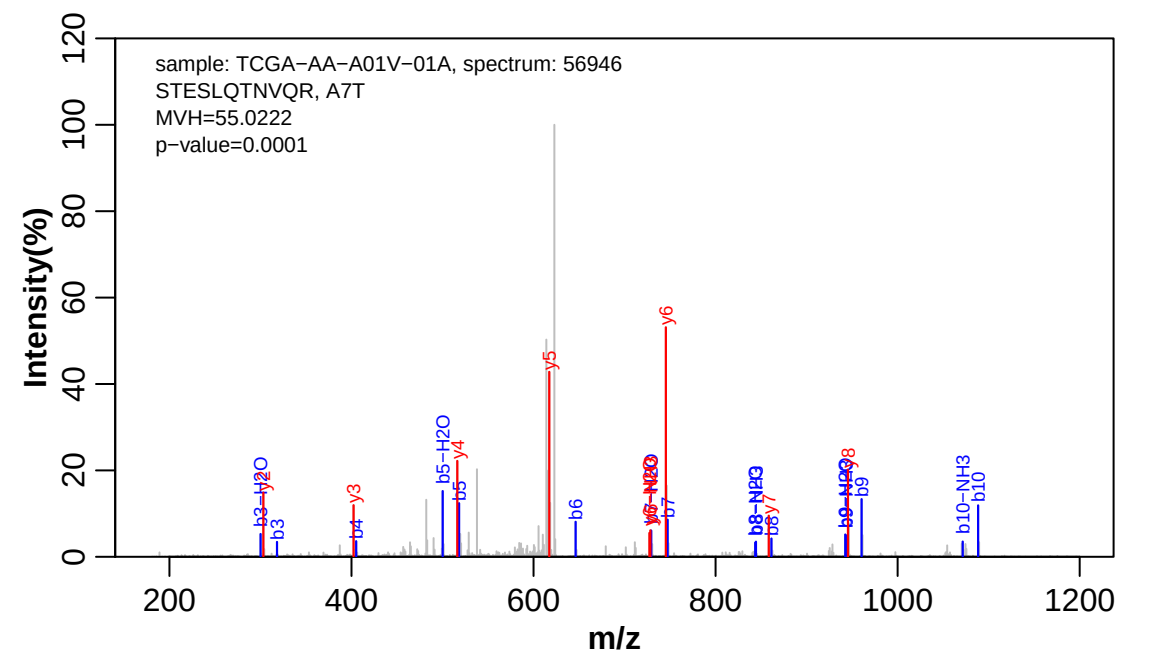

sample: TCGA−AA−A01V−01A, spectrum: 19646
SGGTLVLVGLGSEMTTVPLLHAALRLN4T
MVH=32.7828
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y14++
y16++
y21++
b5−H2O
y8++
b6−H2O
b6
y5
b7−H2O
b7
y6−H2O

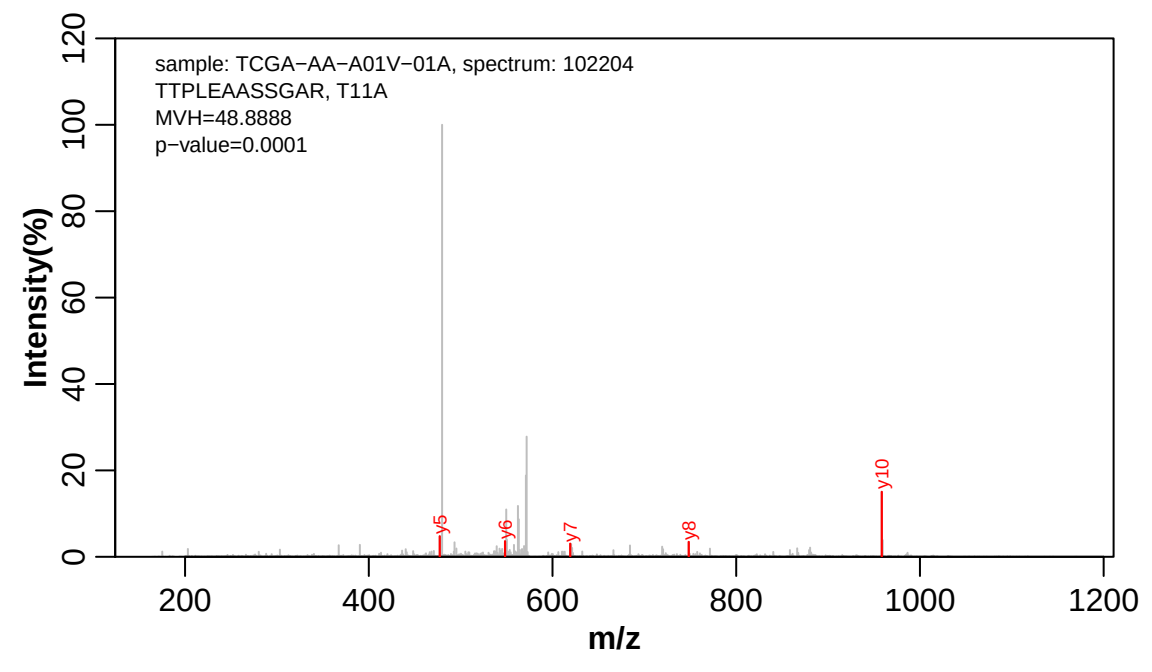

sample: TCGA−AA−A01V−01A, spectrum: 63957
SLDLDDWPLELLK, V9I
MVH=51.5420
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y4
b5−H2O
b5
y5
b6
y6
y6−H2O
b7
y7
y8
b9−H2O
b9
y9
b10
y10
b11
y11
b12

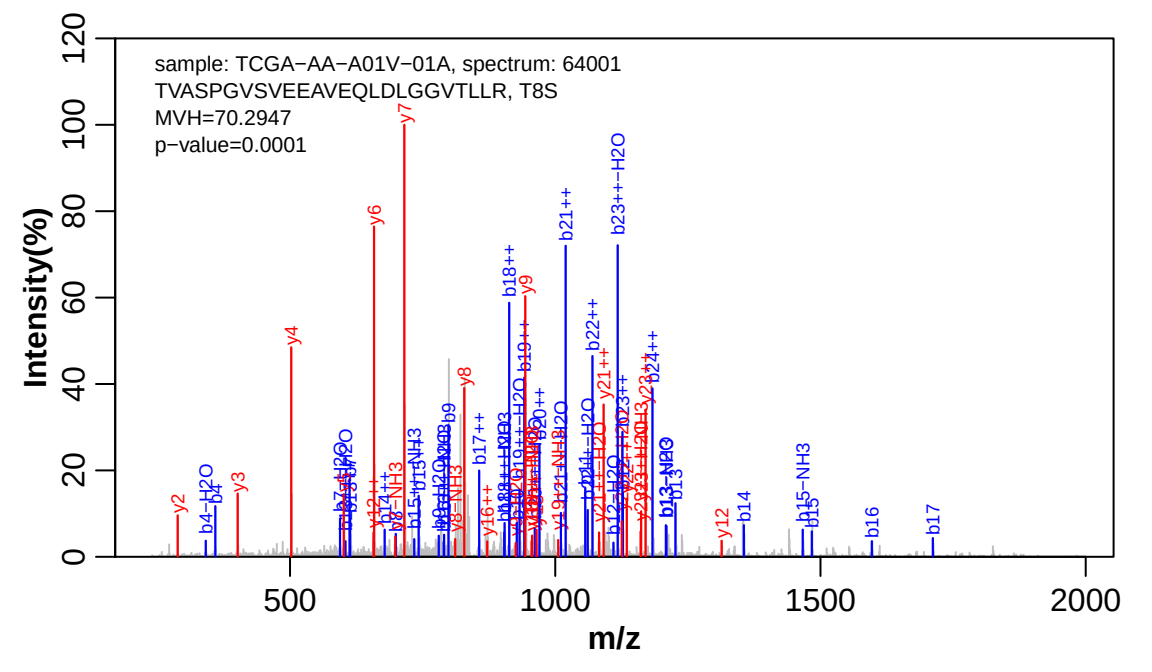

sample: TCGA−AA−A01V−01A, spectrum: 68694
SPADPTDLGGQTSPR, I6T
MVH=59.5314
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b4
y4
b6
y5
y6
b7−H2O
b7−NH3
y7
b8−NH3
b8−H2O
y8
y6−NH3
b9
y9
b10
y10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

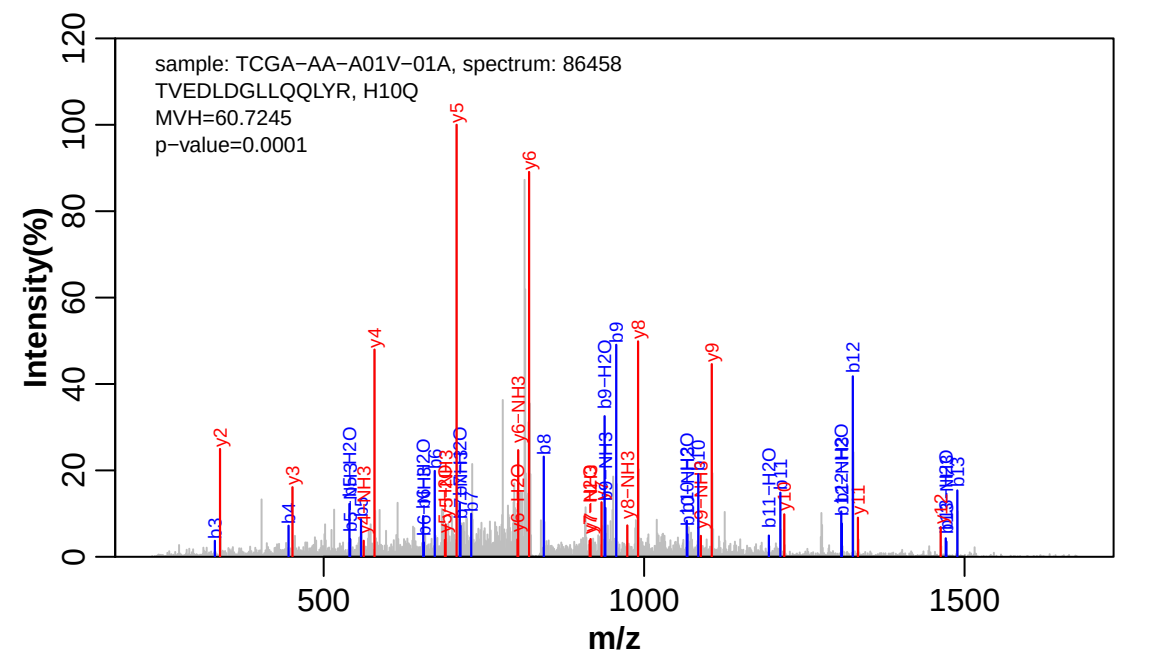

sample: TCGA−AA−A01V−01A, spectrum: 59012
SQNKEDYDGLKEEFR, A8D
MVH=40.1050
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
y5++−NH3
b6++−NH3
y6++−H2O
y7++−H2O
y3
b4−H2O
b8++−H2O
b9++
y4
y9++
y10++
b13++
y13++
y13++−H2O
b7
b8−NH3
b8
b10

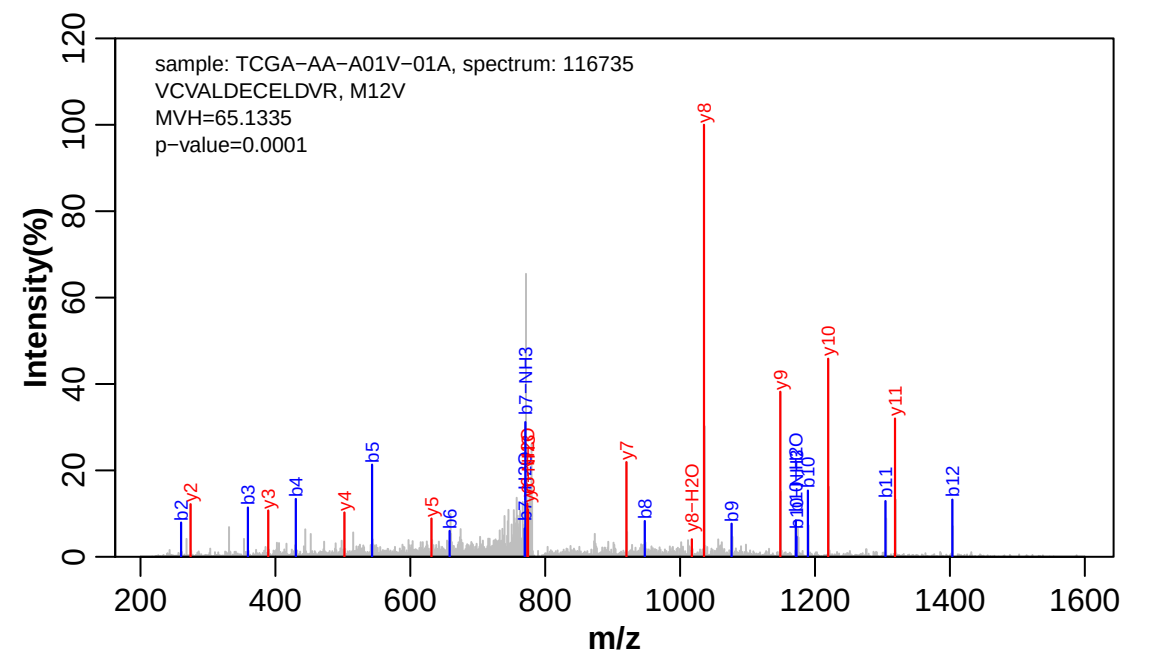

sample: TCGA−AA−A01V−01A, spectrum: 69527
SQNKEDYDGLKEEFRK, A8D
MVH=86.1263
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3++
b5++−H2O
y8+++
b13++++
y10+++
y15++++−H2O
y4−H2O

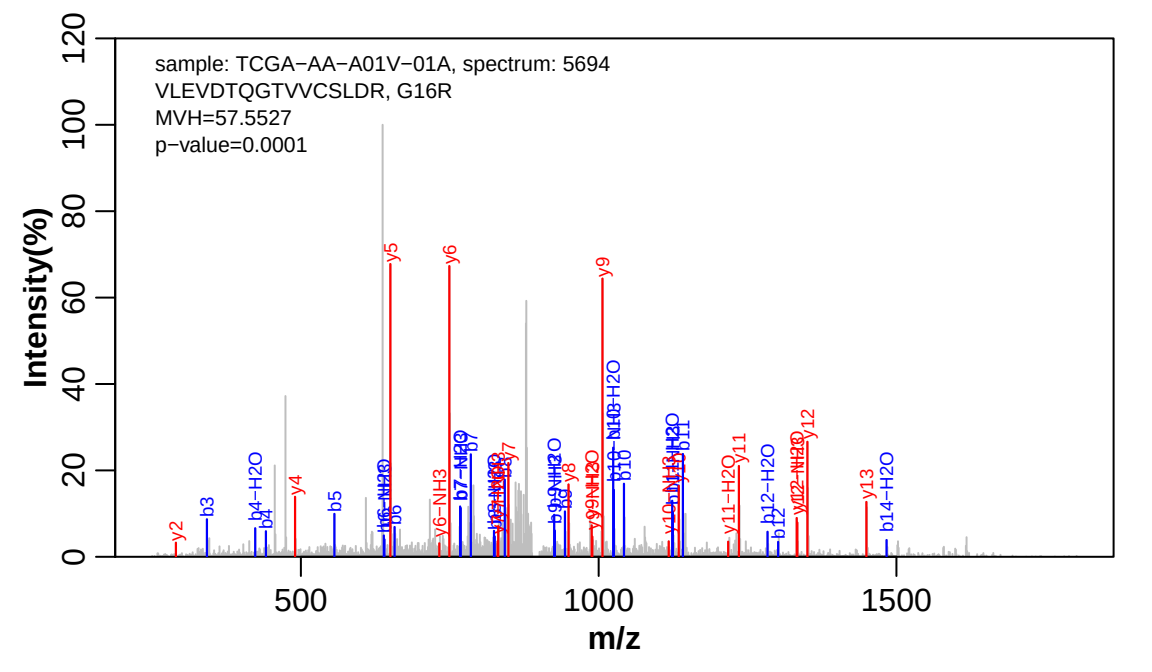

sample: TCGA−AA−A01V−01A, spectrum: 56946
STESLQTNVQR, A7T
MVH=55.0222
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
y3
b4
b5−H2O
y4
b5
y5
b6
y6
b7
b8−NH3
b8
y7
y8
b9
b10−NH3
b10

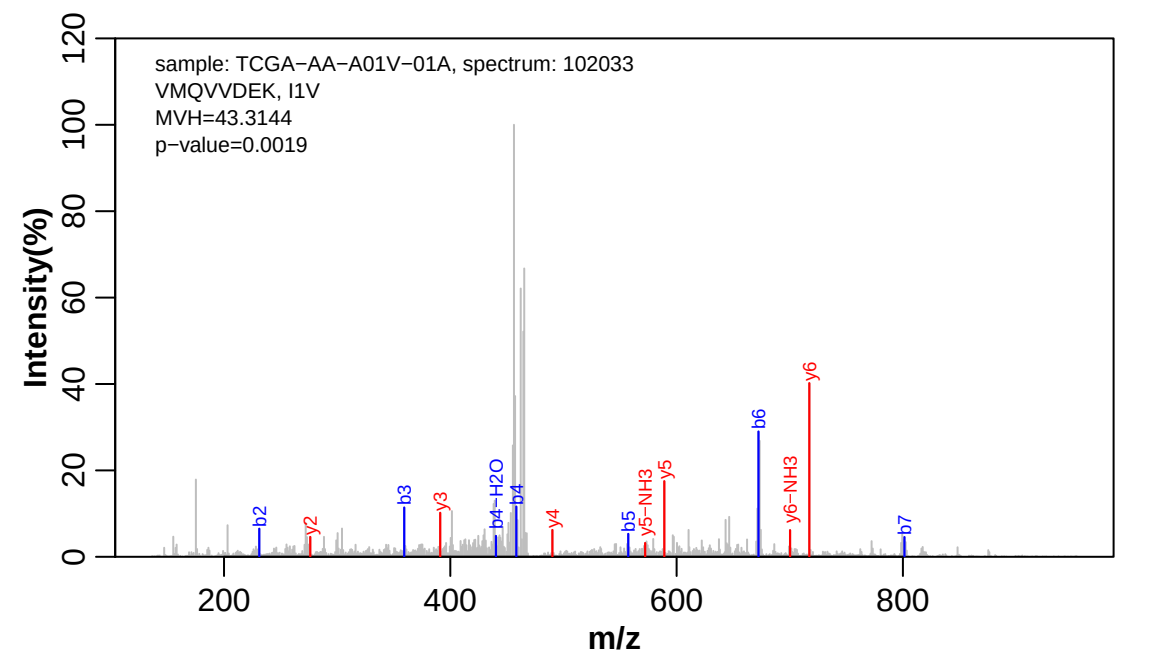

sample: TCGA−AA−A01V−01A, spectrum: 102204
TTPLEAASSGAR, T11A
MVH=48.8888
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y5
y6
y7
y8
y10

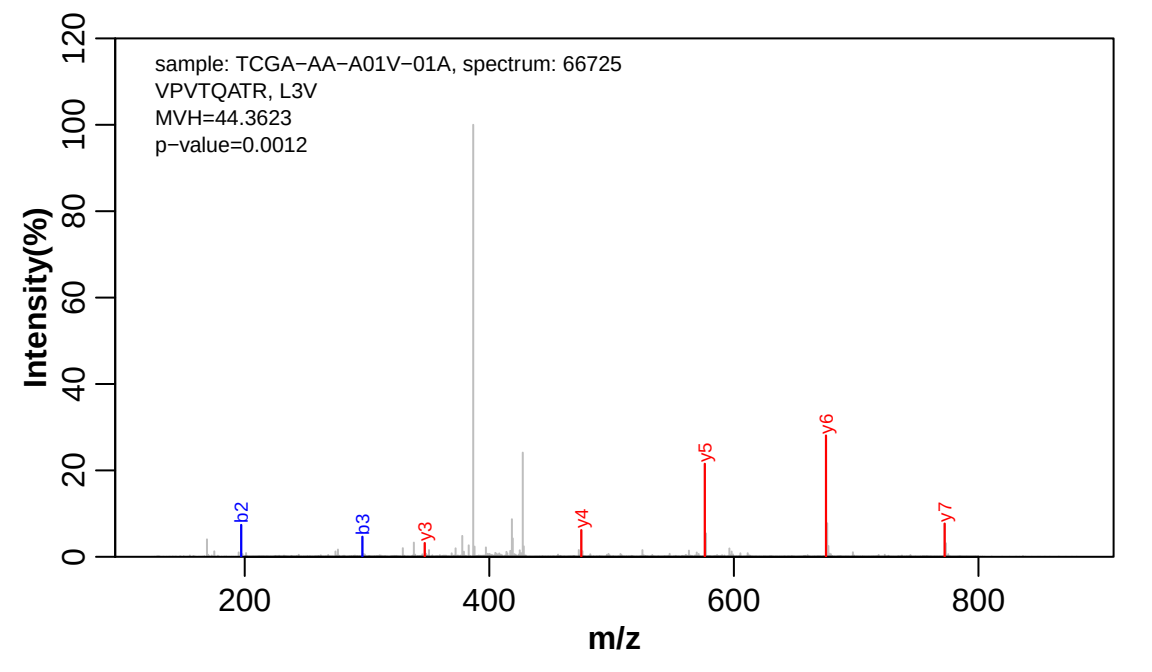

sample: TCGA−AA−A01V−01A, spectrum: 64001
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=70.2947
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y4
y3
y2
y8
y9
b21++
b23++−H2O
b18++
b22++
b17++
y16++
y21++
y12
b14
b15−NH3
b16
b17

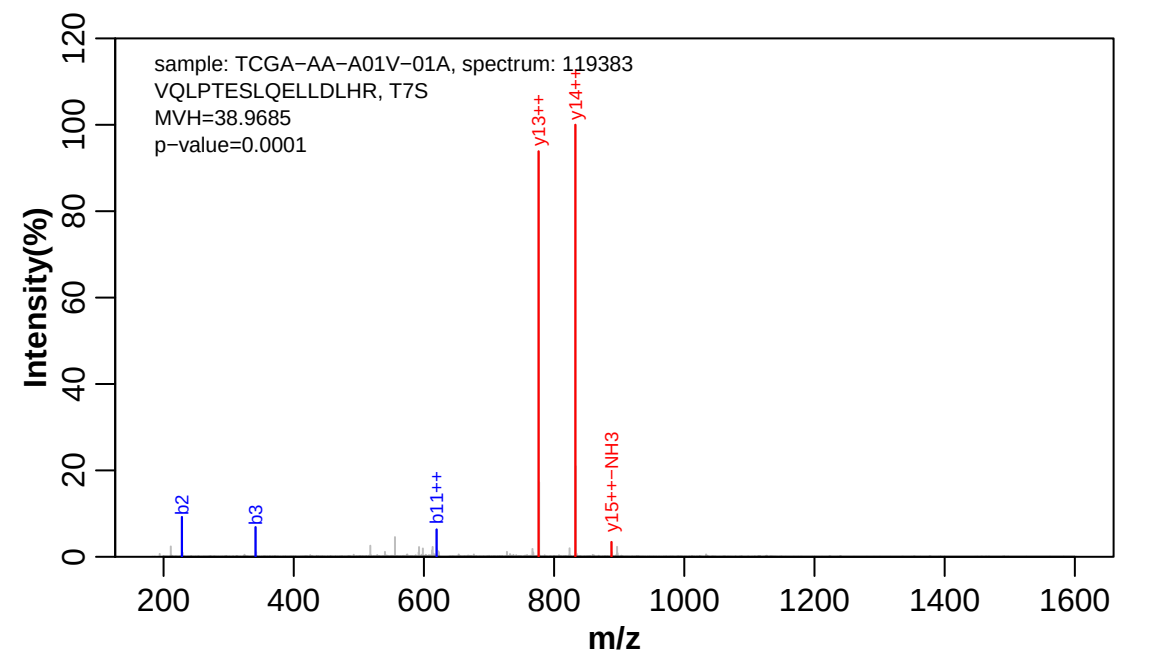

sample: TCGA−AA−A01V−01A, spectrum: 86458
TVEDLDGLLQQLYR, H10Q
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y6
y4
y2
y3
b4
b3
b8
b9
y8
y9
b12
y11
b11
y10
b13

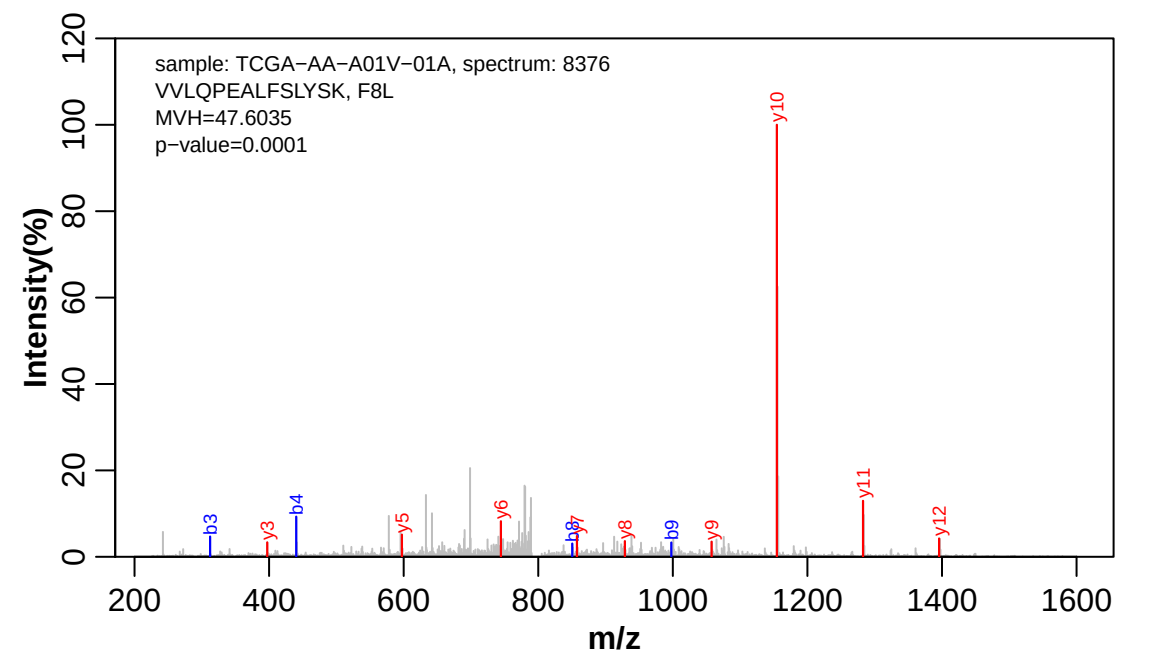

sample: TCGA−AA−A01V−01A, spectrum: 116735
VCVALDECELDVR, M12V
MVH=65.1335
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y2
b3
y3
b4
y4
b5
y5
b6
b7−NH3
y7
b8
y8
y8−H2O
b9
y9
y10
b10
b11
y11
b12

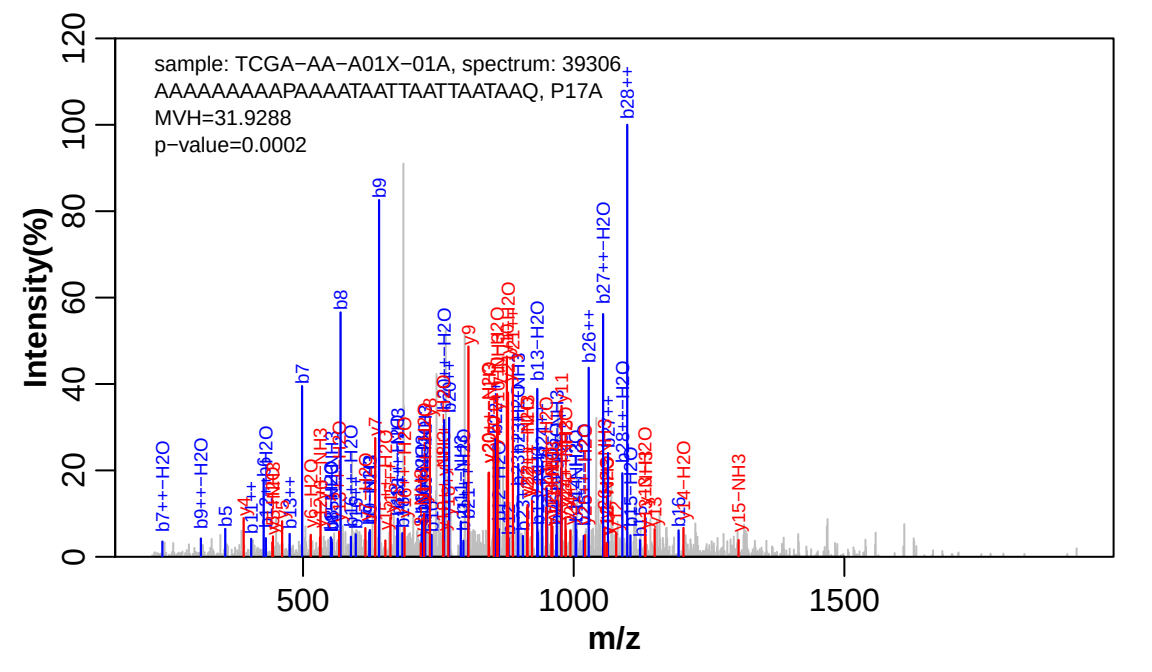

sample: TCGA−AA−A01V−01A, spectrum: 5694
VLEVDTQGTVVCSLDR, G16R
MVH=57.5527
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b3
b4−H2O
b4
y4
b5
y5
y6
y6−NH3
b7−H2O
b7
y9
b10−H2O
b10
y8
y9−H2O
y11
y11−H2O
b12−H2O
b12
y12
y12−NH3
y13
b14−H2O

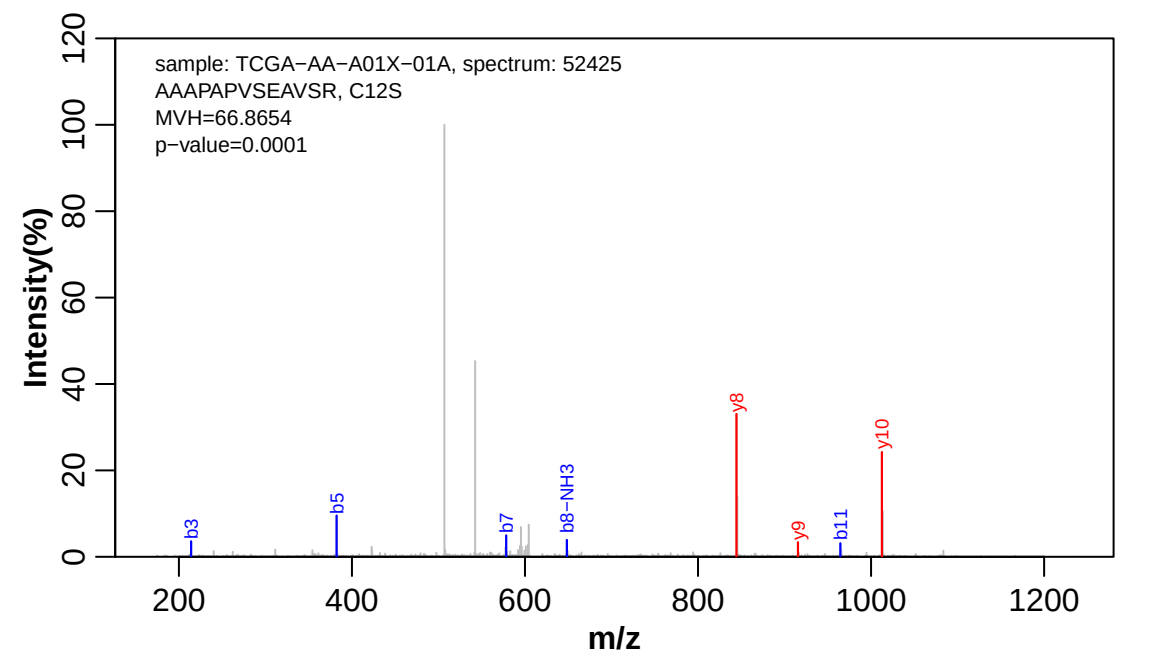

sample: TCGA−AA−A01V−01A, spectrum: 102033
VMQVVDEK, I1V
MVH=43.3144
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
b4−H2O
b4
y4
b5
y5−NH3
y5
b6
y6−NH3
y6
b7

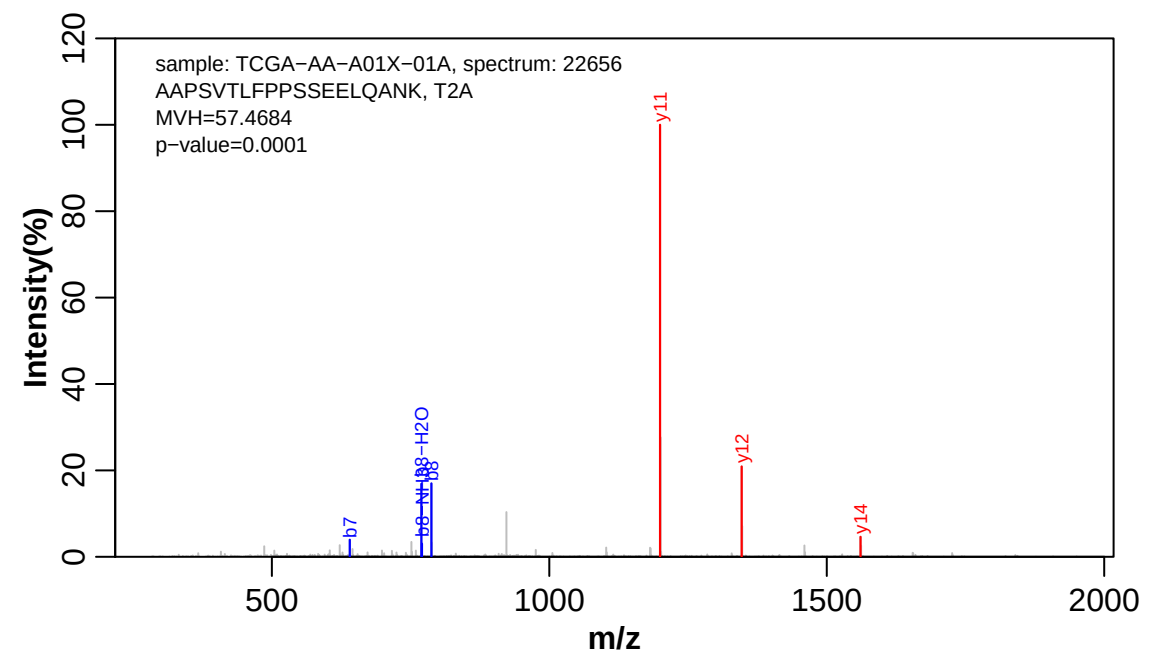

sample: TCGA−AA−A01V−01A, spectrum: 66725
VPVTQATR, L3V
MVH=44.3623
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

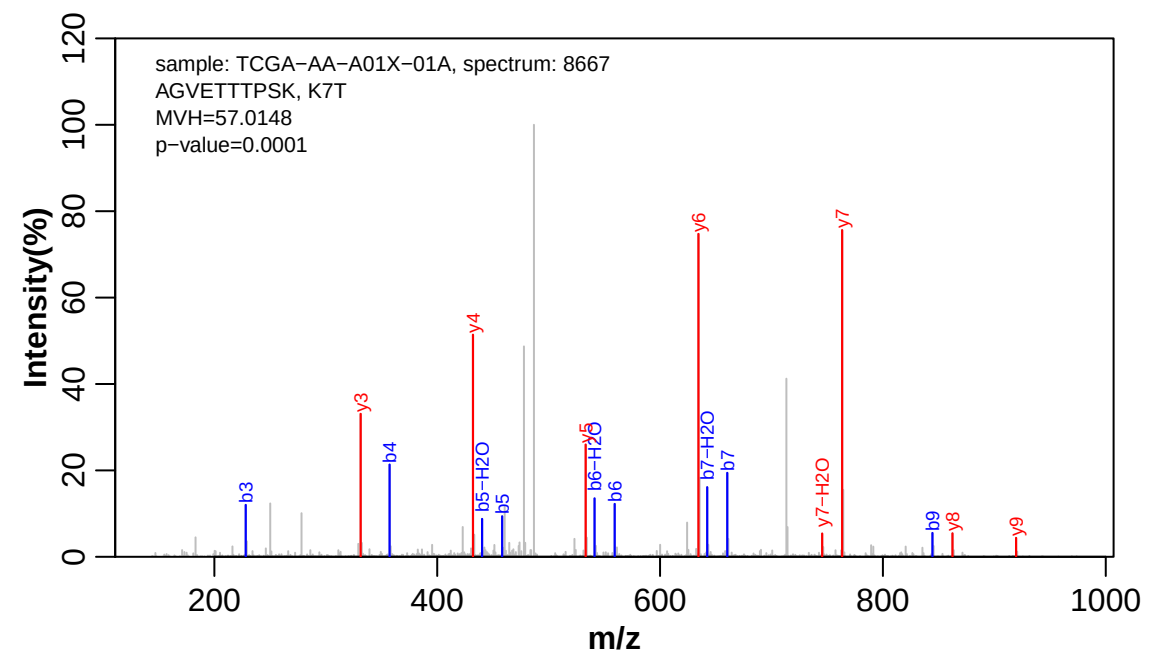

sample: TCGA−AA−A01V−01A, spectrum: 119383
VQLPTESLQELLDLHR, T7S
MVH=38.9685
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

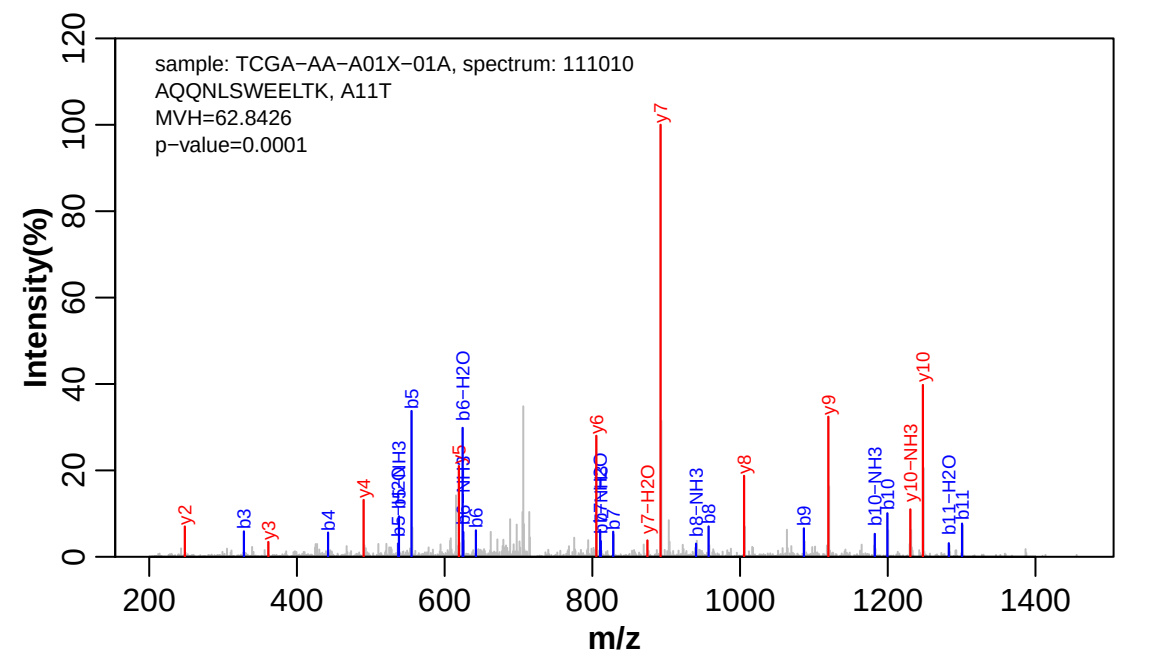

sample: TCGA−AA−A01V−01A, spectrum: 8376
VVLQPEALFSLYSK, F8L
MVH=47.6035
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y5
y6
b8
y7
y8
b9
y9
y10
y11
y12

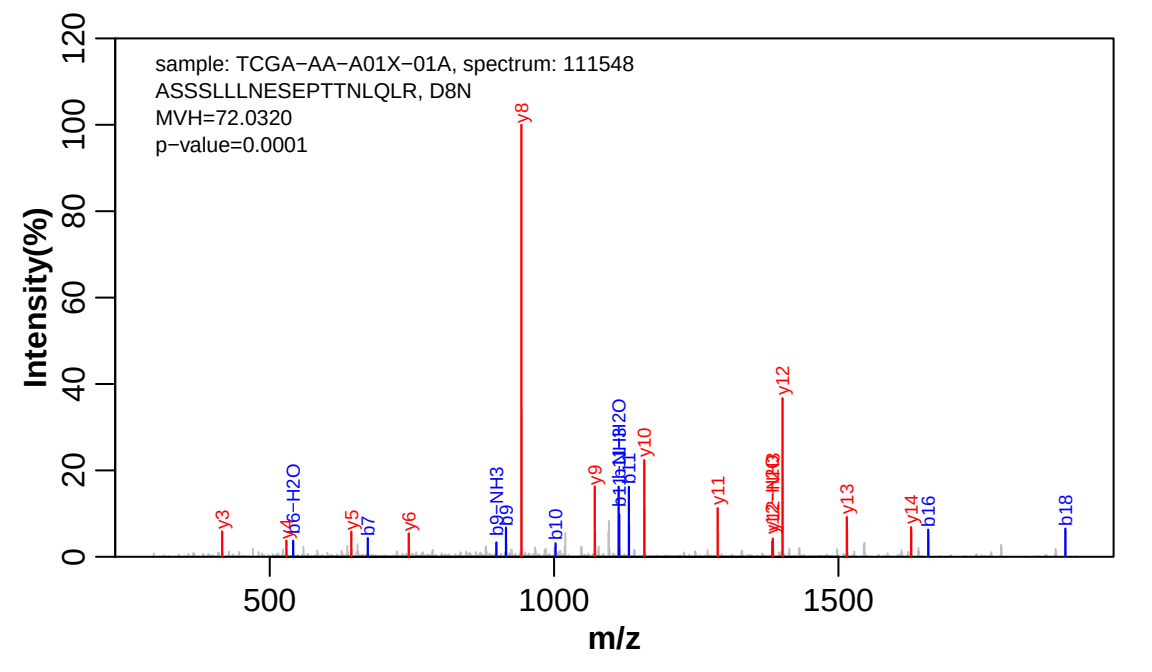

sample: TCGA−AA−A01X−01A, spectrum: 39306
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=31.9288
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b7++−H2O
b9++−H2O
b5
b4++
b6++−H2O
b13++
b7
b8
b9
y7
b13−H2O
y9
b20++−H2O
b27++−H2O
b26++
b28++
b28++−H2O
y13
y14−H2O
y15−NH3

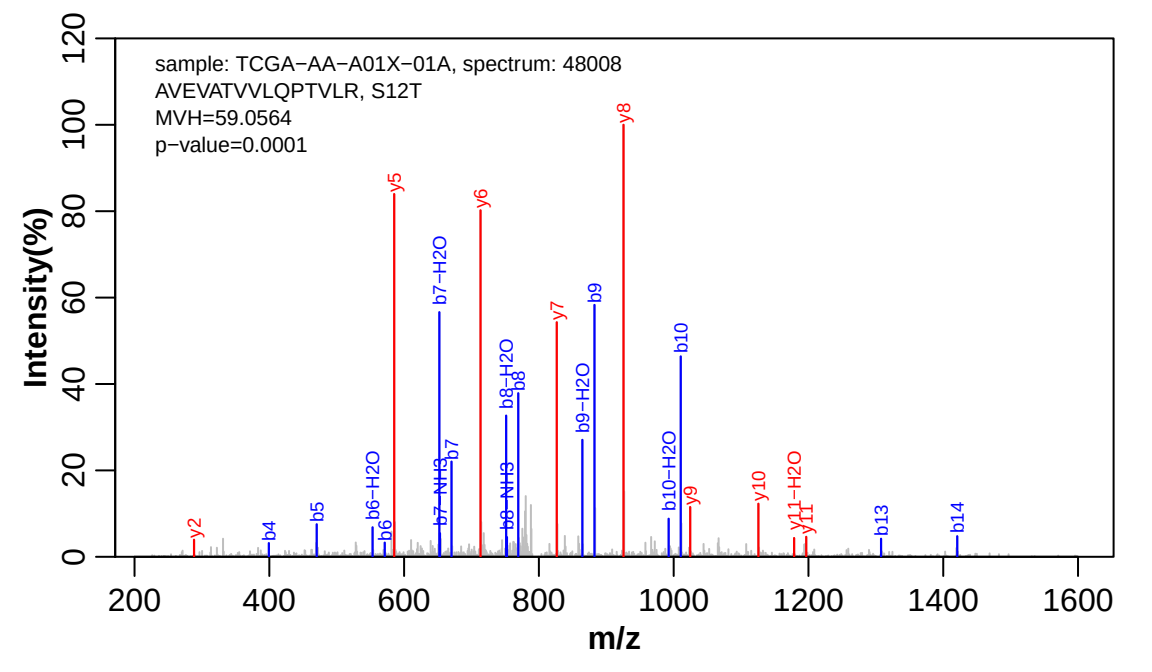

sample: TCGA−AA−A01X−01A, spectrum: 52425
AAAPAPVSEAVSR, C12S
MVH=66.8654
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b5
b7
b8−NH3
y8
y9
b11
y10

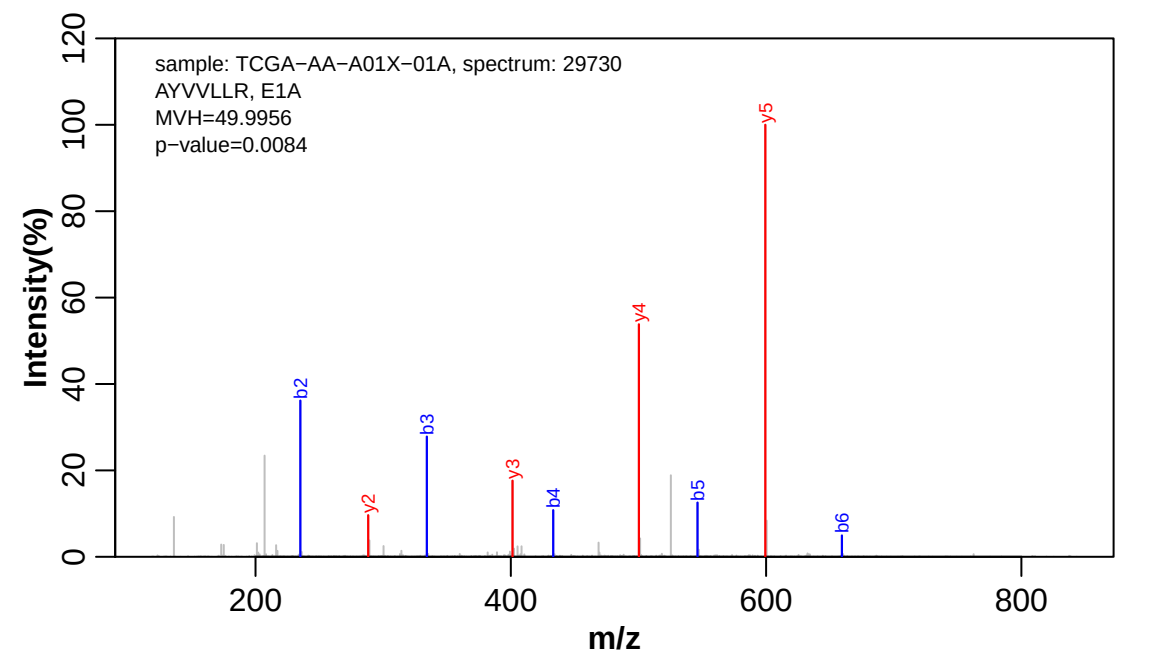

sample: TCGA−AA−A01X−01A, spectrum: 22656
AAPSVTLFPPSSEELQANK, T2A
MVH=57.4684
p−value=0.0001
y11
y12
y14
b7
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

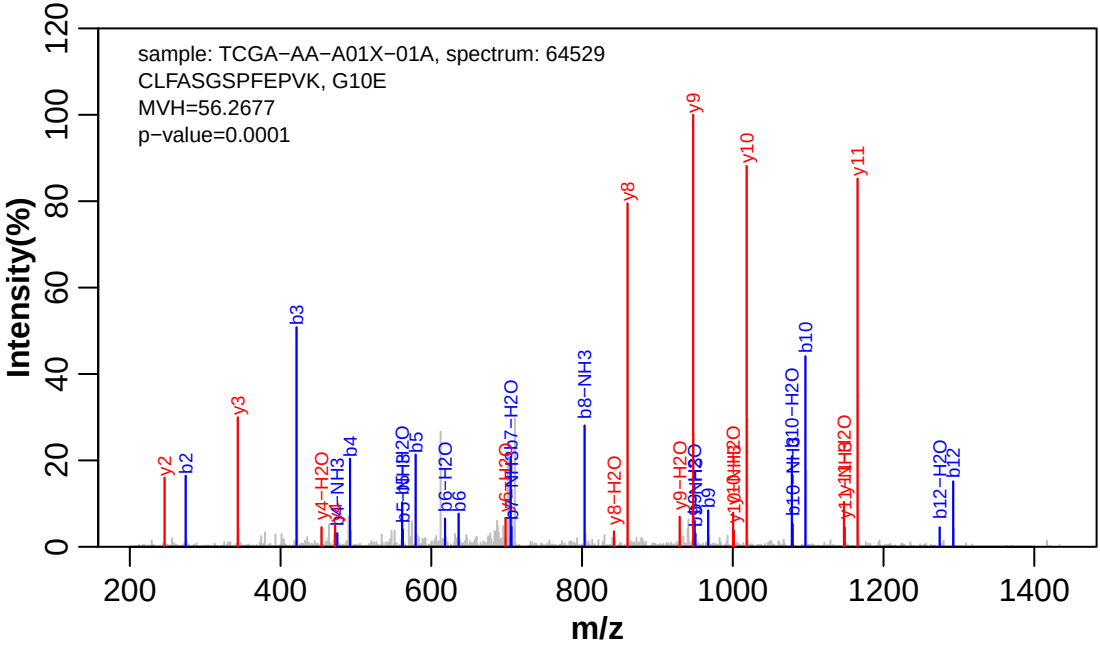

sample: TCGA−AA−A01X−01A, spectrum: 8667
AGVETTTPSK, K7T
MVH=57.0148
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

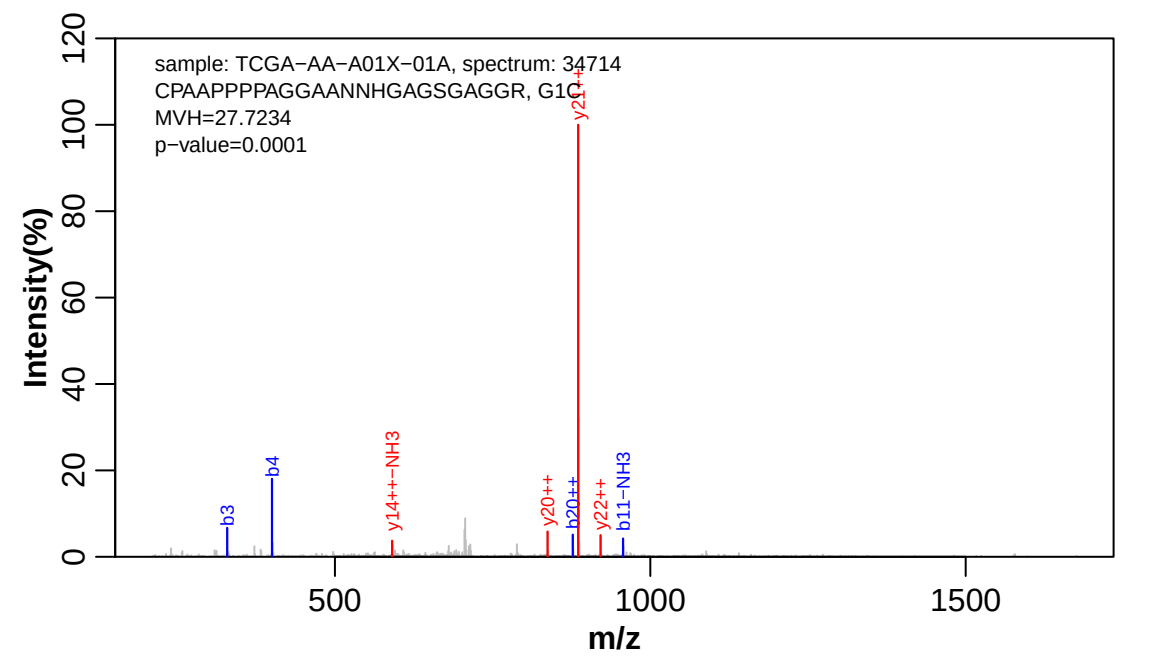

sample: TCGA−AA−A01X−01A, spectrum: 111010
AQQNLSWEELTK, A11T
MVH=62.8426
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5
b5−H2O
b5−NH3
b6−H2O
b6−NH3
b6
y6
y7
y7−H2O
b7
b8−NH3
b8
y8
b9
y9
b10−NH3
b10
y10−NH3
y10
b11−H2O
b11

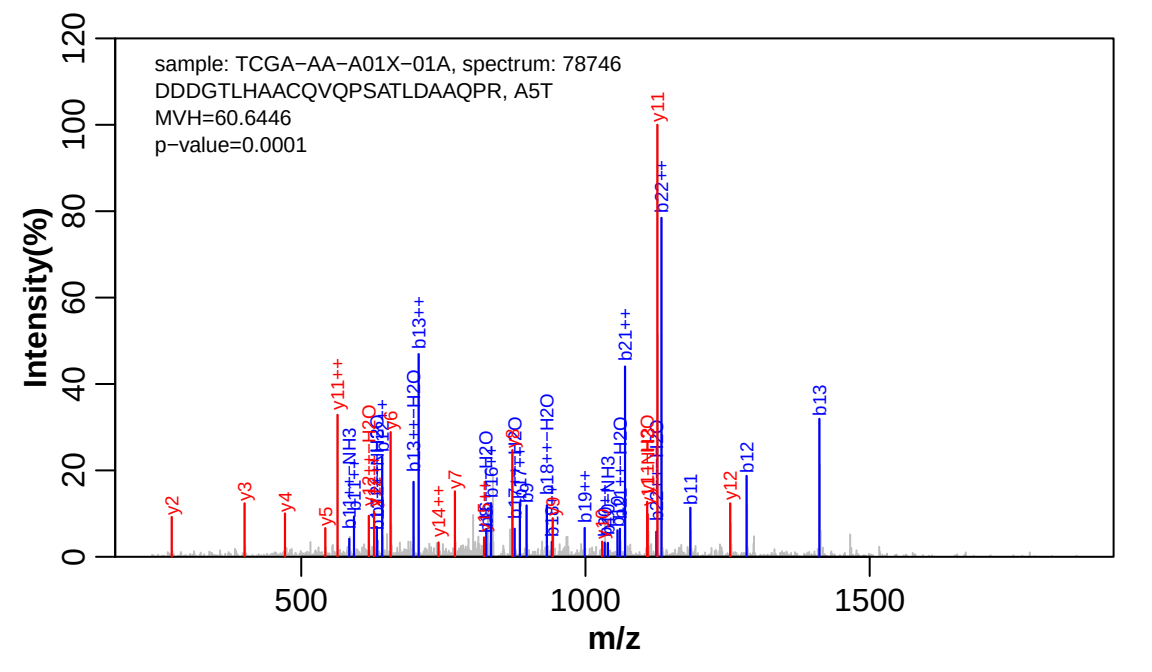

sample: TCGA−AA−A01X−01A, spectrum: 111548
ASSSLLLNESEPTTNLQLR, D8N
MVH=72.0320
p−value=0.0001
Intensity(%)
m/z
y8
y12
y10
y9
y11
y13
y14
b18
b16
b11
b10
y6
y5
b7
y3
b6−H2O
b9−NH3
y12−H2O
y12−NH3

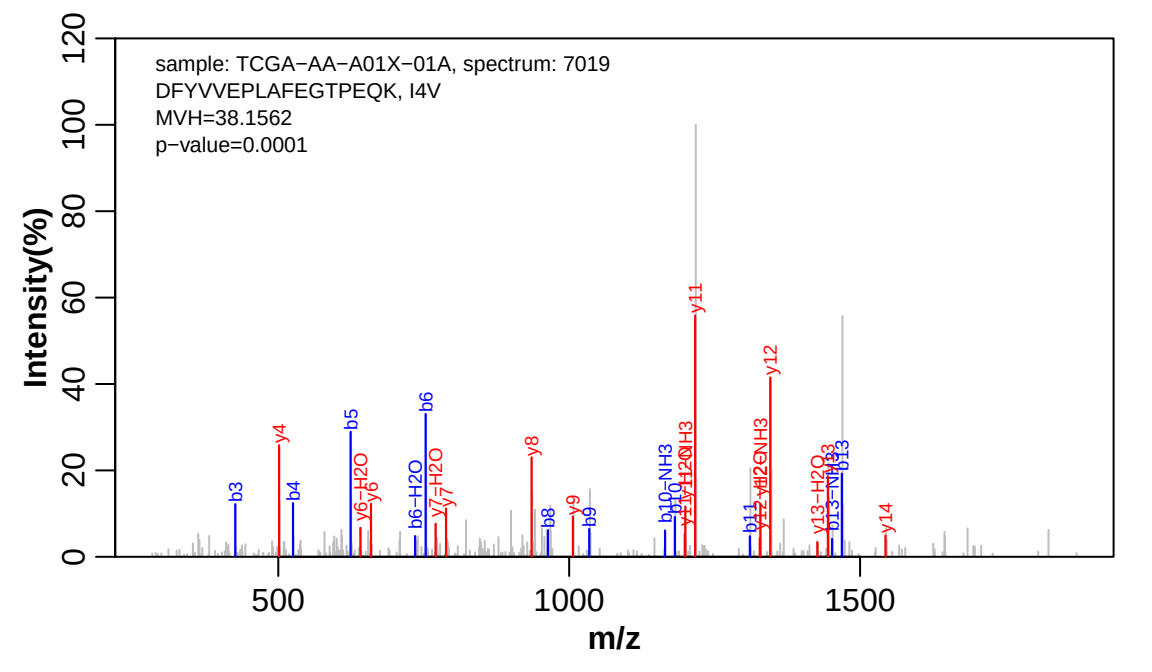

sample: TCGA−AA−A01X−01A, spectrum: 48008
AVEVATVVLQPTVLR, S12T
MVH=59.0564
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b4
b5
b6−H2O
b6
y5
b7−NH3
b7−H2O
b7
y6
b8−NH3
b8−H2O
b8
y7
b9−H2O
b9
y8
b10−H2O
b10
y9
y10
y11−H2O
y11
b13
b14

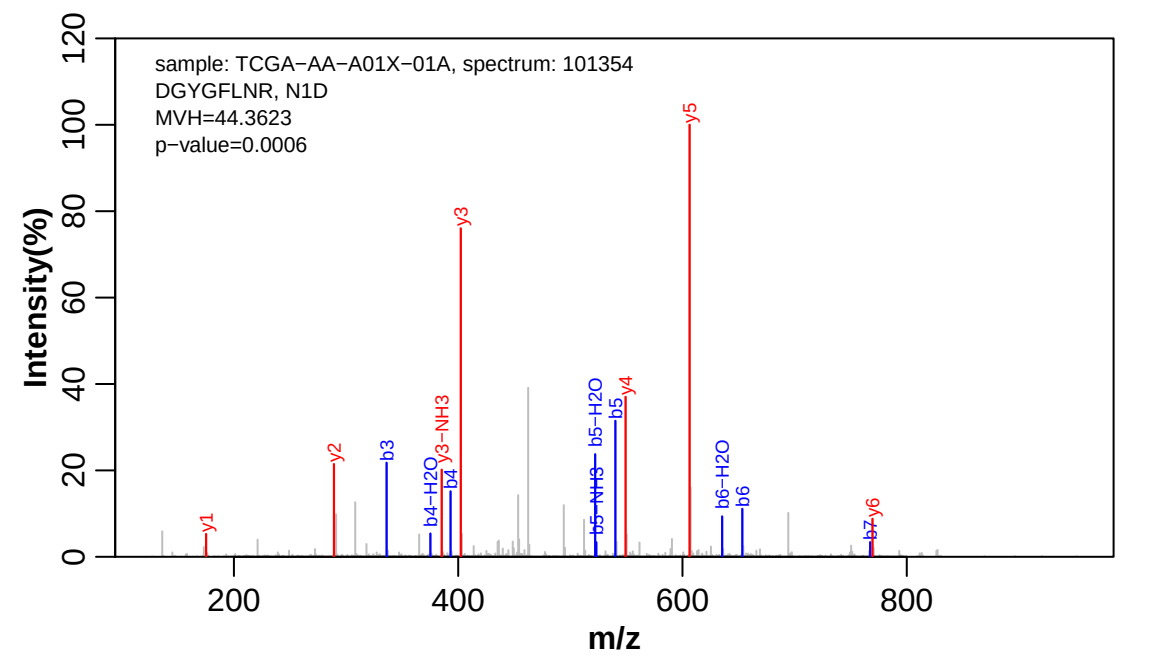

sample: TCGA−AA−A01X−01A, spectrum: 29730
AYVVLLR, E1A
MVH=49.9956
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
b4
y4
b5
y5
b6

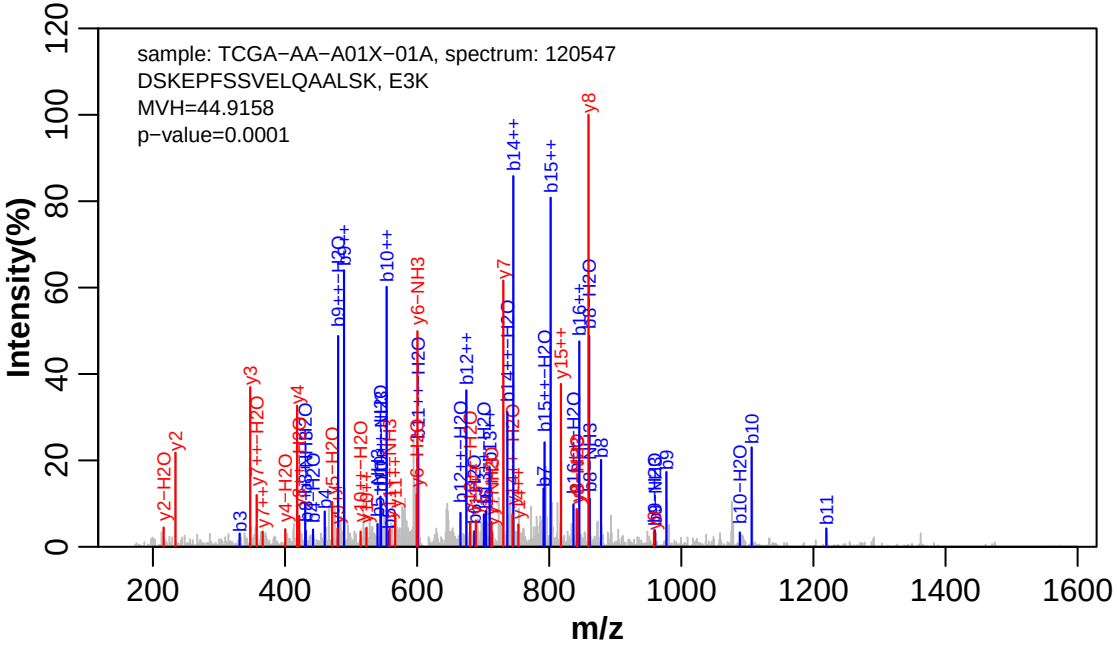

sample: TCGA−AA−A01X−01A, spectrum: 64529
CLFASGSPFEPVK, G10E
MVH=56.2677
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b2
y3
b3
y4−H2O
y4−NH3
b4
b5−H2O
b5
b6−H2O
b6
b7−NH3
b7−H2O
b8−NH3
y8−H2O
y8
y9−H2O
y9−NH3
b9
y9
y10−H2O
y10−NH3
y10
b10−NH3
b10−H2O
b10
y11−H2O
y11−NH3
y11
b12−H2O
b12

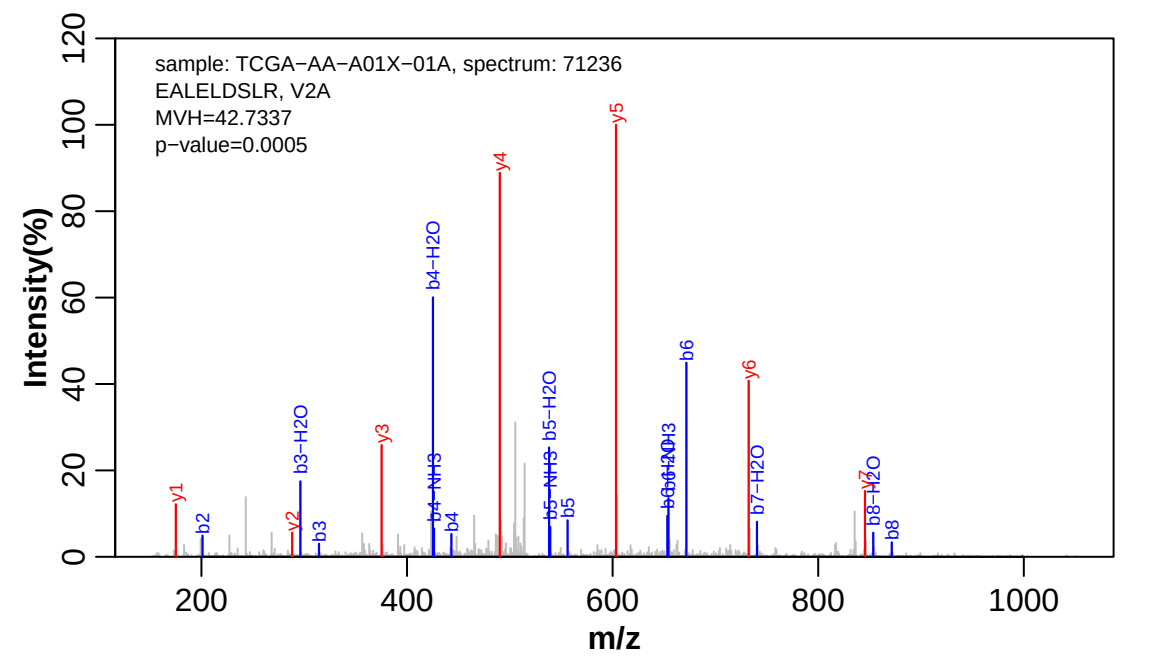

sample: TCGA−AA−A01X−01A, spectrum: 34714
CPAAPPPPAGGAANNHGAGSGAGGR, G1C
MVH=27.7234
p−value=0.0001
y21++
b3
b4
y14++−NH3
y20++
b20++
y22++
b11−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

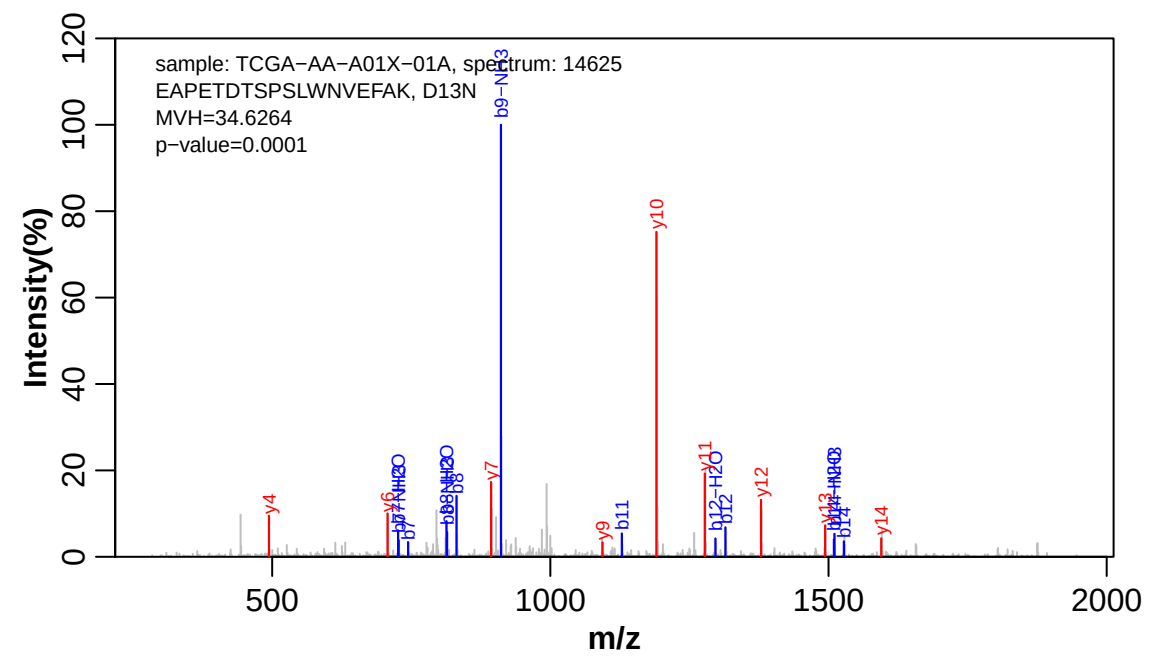

sample: TCGA−AA−A01X−01A, spectrum: 78746
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=60.6446
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y5
y11++
y6
b13++
b13++−H2O
y7
y14++
b18++−H2O
b19++
b21++
y11
b22++
b13
b11
y12
b12

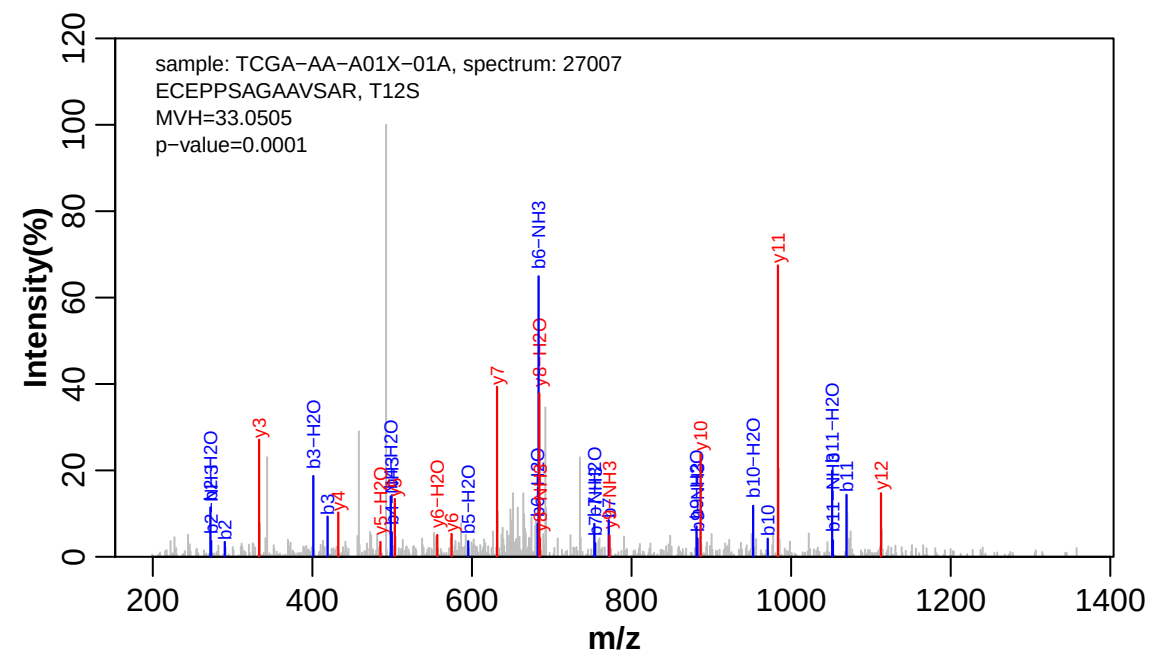

sample: TCGA−AA−A01X−01A, spectrum: 7019
DFYVVEPLAFEGTPEQK, I4V
MVH=38.1562
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6−H2O
y6
b6
b6−H2O
y7
y7−H2O
y8
b8
y9
b9
b10−NH3
y11
y11−H2O
y11−NH3
y12
b11
y12−H2O
y12−NH3
y13−H2O
b13
b13−NH3
y14

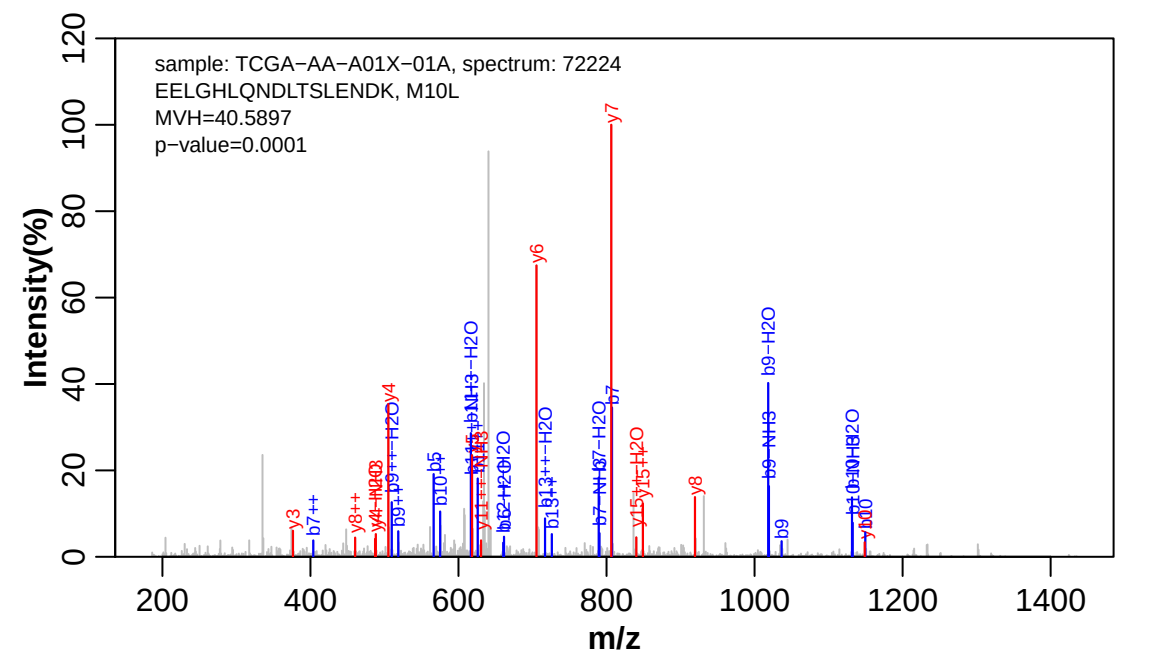

sample: TCGA−AA−A01X−01A, spectrum: 101354
DGYGFLNR, N1D
MVH=44.3623
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

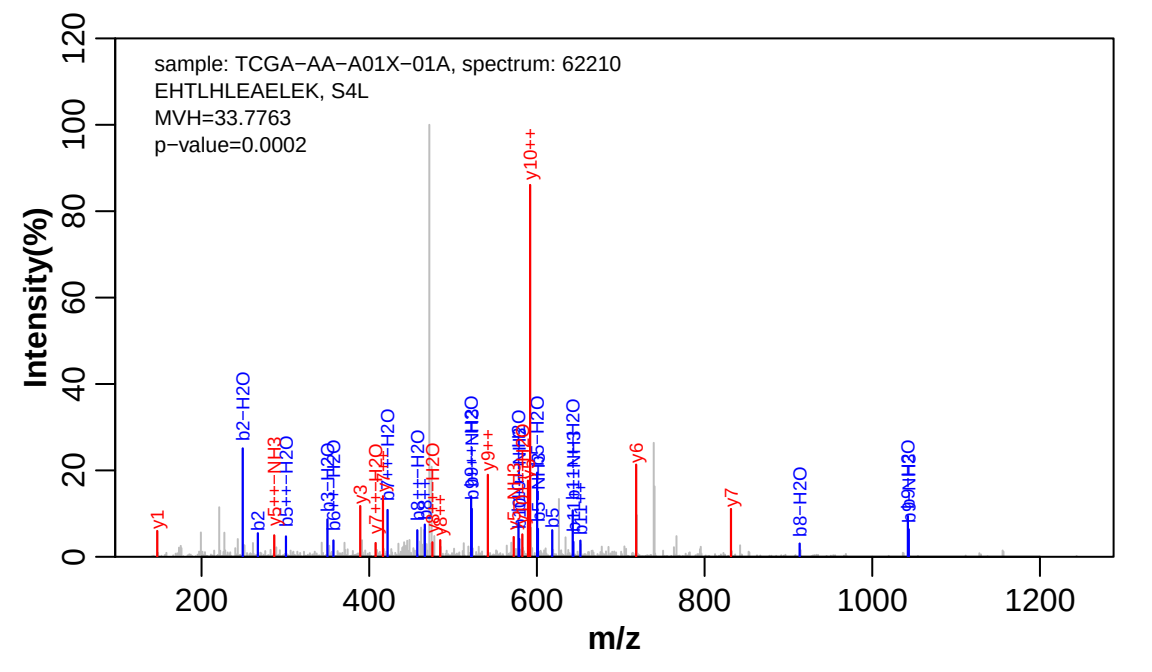

sample: TCGA−AA−A01X−01A, spectrum: 120547
DSKEPFSSVELQAALSK, E3K
MVH=44.9158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2−H2O
y2
b3
y7++
y7++−H2O
y3
y4−H2O
y4
y5−H2O
b4
y6−H2O
y6++
y6++−H2O
y6++−NH3
b5
b5−H2O
b5−NH3
b9++
b9++−H2O
b9
b10++
y6−NH3
y10++−H2O
y10++
b12++
b12++−H2O
b12++−NH3
y7++−H2O
y7
b14++
b15++
b7
b15++−H2O
y15++
b16++
b8−H2O
b8
b8−NH3
b9−NH3
b9
b10−H2O
b10
b11
y8

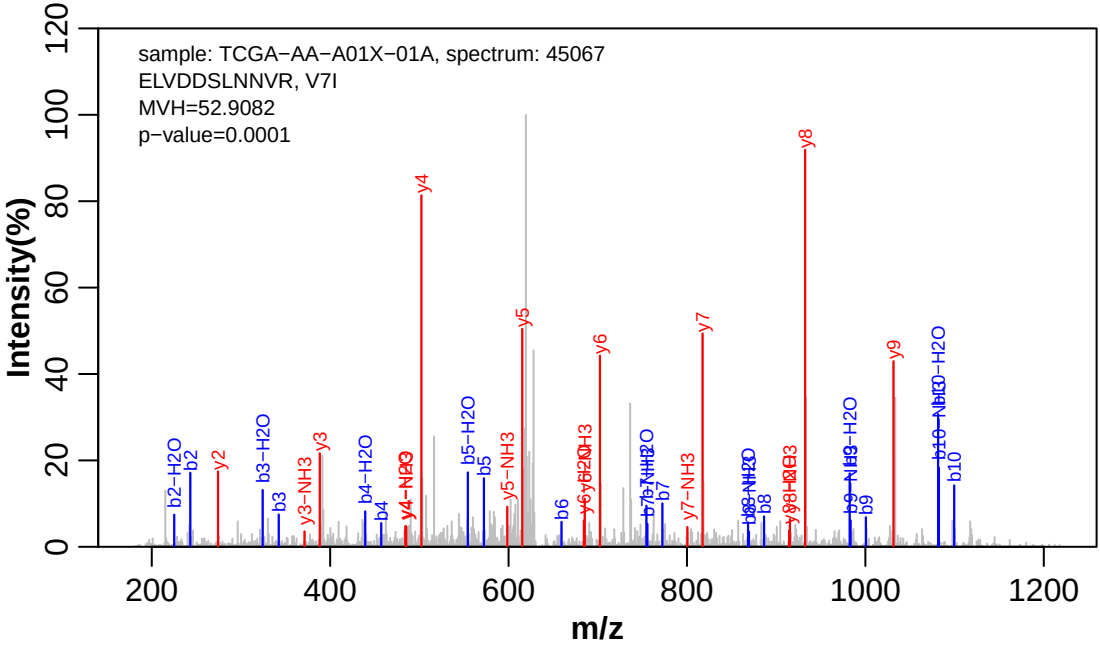

sample: TCGA−AA−A01X−01A, spectrum: 71236
EALELDSLR, V2A
MVH=42.7337
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−H2O
b3
y3
b4−H2O
b4−NH3
b4
y4
b5−H2O
b5−NH3
b5
y5
b6
b6−H2O
b6−NH3
y6
b7−H2O
y7
b8−H2O
b8

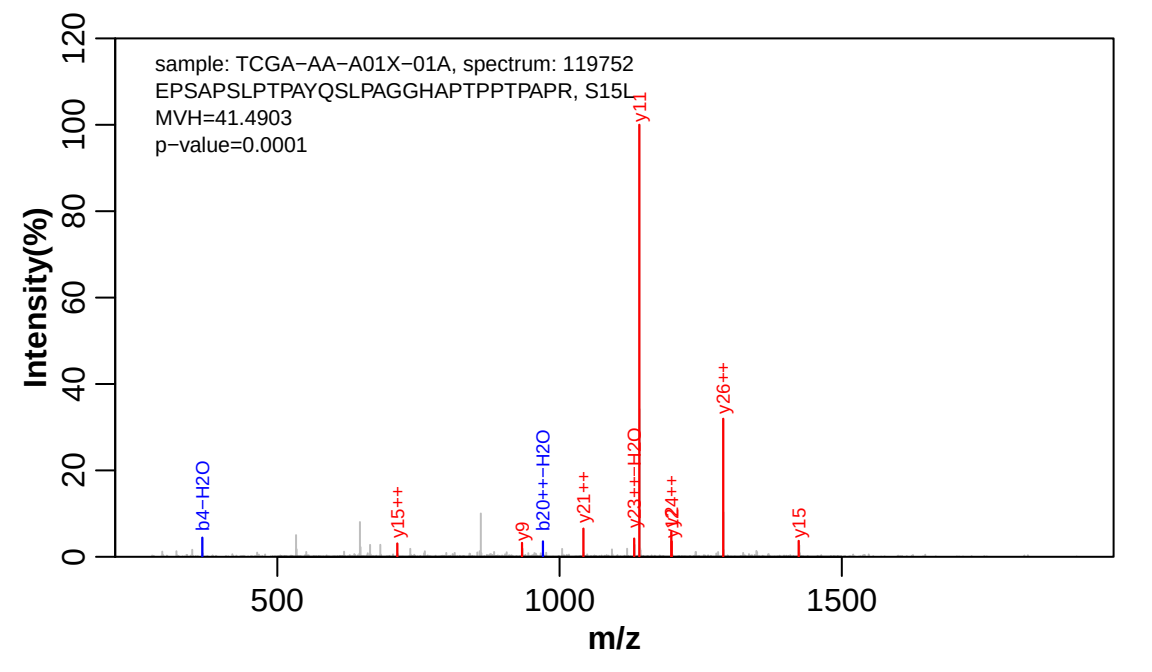

sample: TCGA−AA−A01X−01A, spectrum: 14625
EAPETDTSPSLWNVEFAK, D13N
MVH=34.6264
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9−NH3
y10
y7
y4
y6
y9
b11
y11
b12−H2O
y12
y13
y14

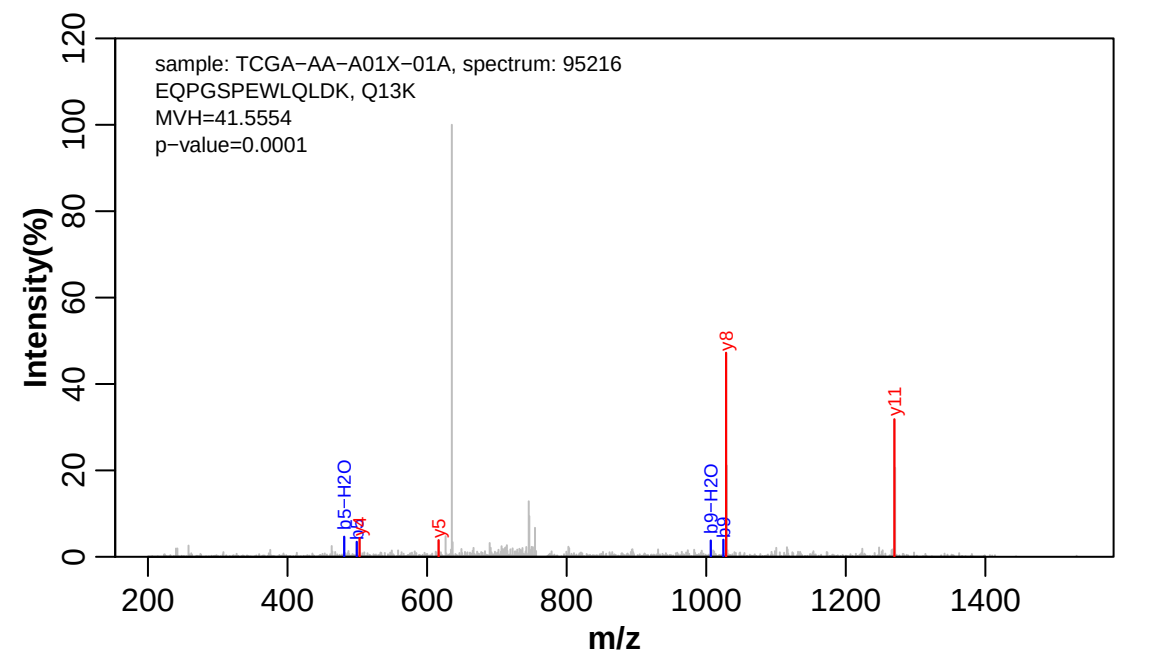

sample: TCGA−AA−A01X−01A, spectrum: 27007
ECEPPSAGAAVSAR, T12S
MVH=33.0505
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b6−NH3
y11
y7
y8−H2O
y3
b3−H2O
b11−H2O
b10−H2O
y12
y6−H2O
b5−H2O
y10
b11
b10
b3
y4
b2
y7NH3

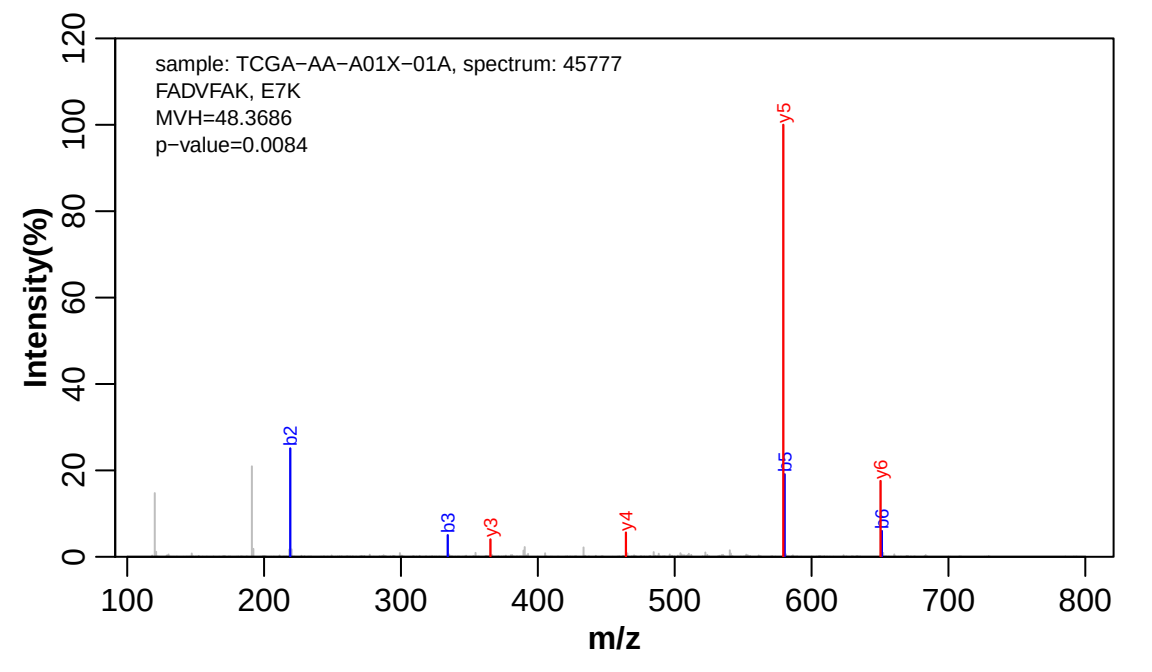

sample: TCGA−AA−A01X−01A, spectrum: 72224
EELGHLQNDLTSLENDK, M10L
MVH=40.5897
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y4
y3
b7++
y8++
b9++−H2O
b10−b5
b13++−H2O
b7−NH3−H2O
b7
y15++−H2O
y8
b9−NH3
b9−H2O
b9
y10

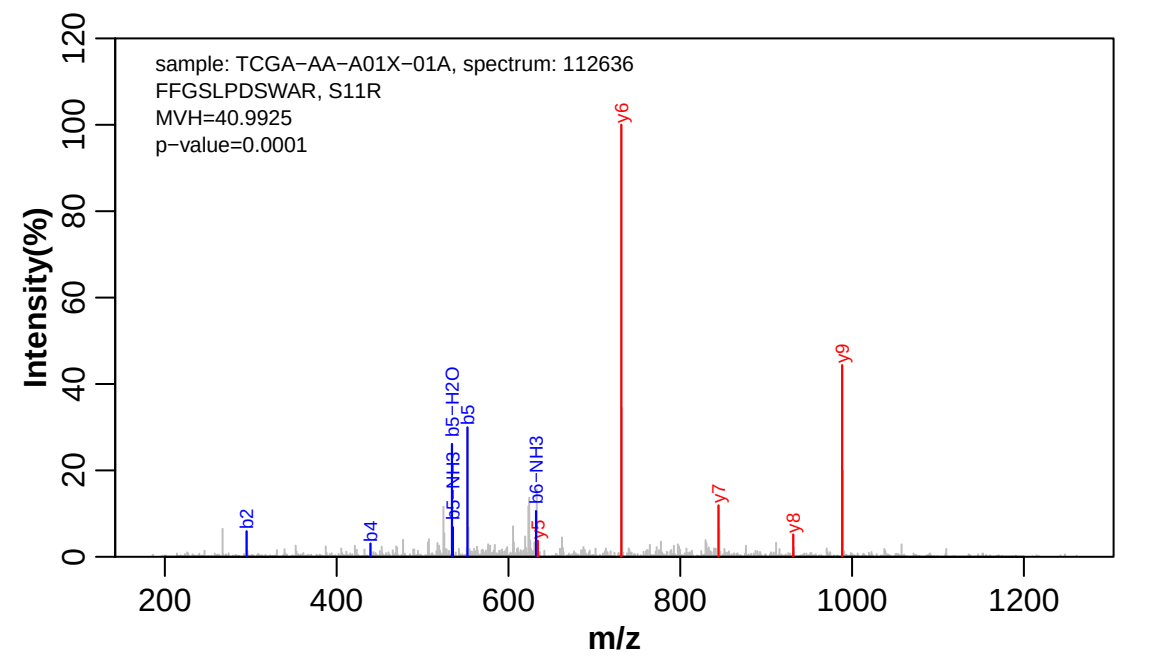

sample: TCGA−AA−A01X−01A, spectrum: 62210
EHTLHLEAELEK, S4L
MVH=33.7763
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2−H2O
b2
y5++−NH3
y5++−H2O
b3−H2O
b3−NH3
y3
y7++−H2O
y7++−NH3
b8++−H2O
y8++−H2O
b9++−NH3
b9++−H2O
y9++
y10++
b5−H2O
b5
y6
y7
b8−H2O
b9−NH3
b9−H2O

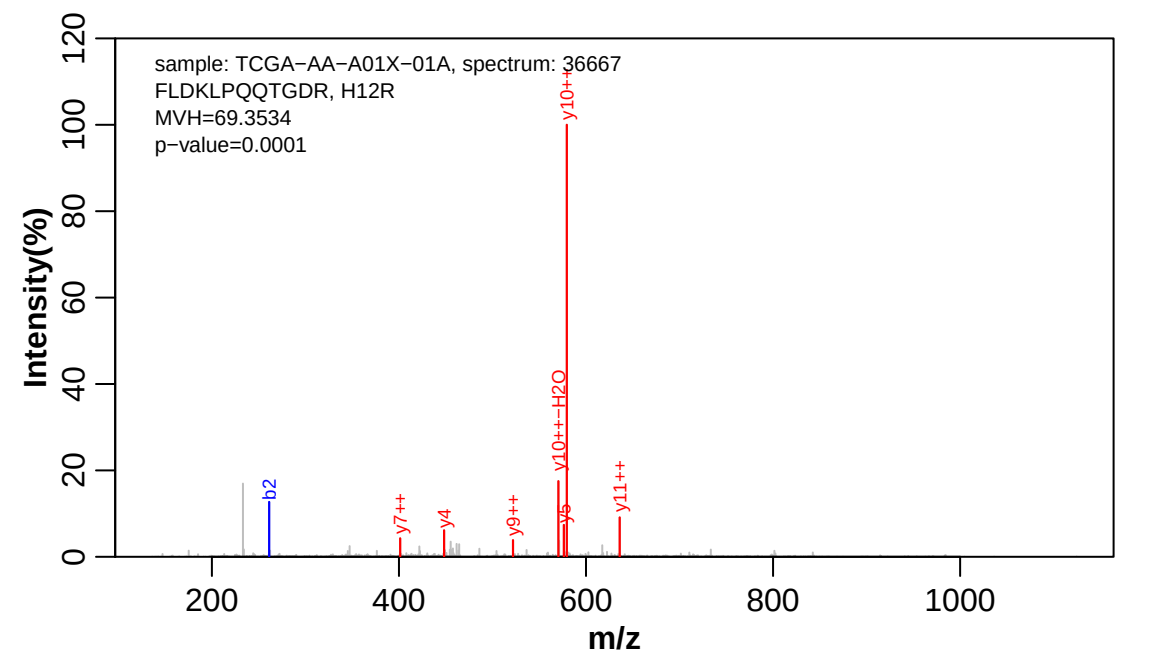

sample: TCGA−AA−A01X−01A, spectrum: 45067
ELVDDSLNNVR, V7I
MVH=52.9082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3−NH3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5−NH3
y5
b6
y6−H2O
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7
b8−NH3
b8−H2O
b8
y8−NH3
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

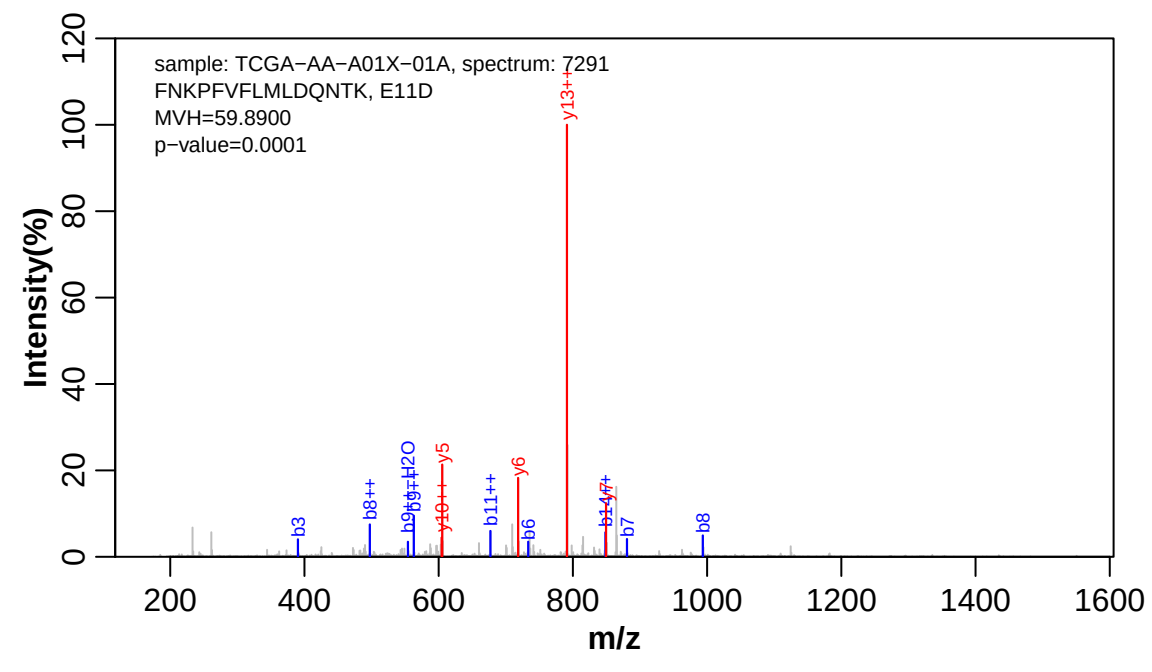

sample: TCGA−AA−A01X−01A, spectrum: 119752
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=41.4903
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
y15++
y9
b20++−H2O
y21++
y23++−H2O
y11
y24++
y26++
y15

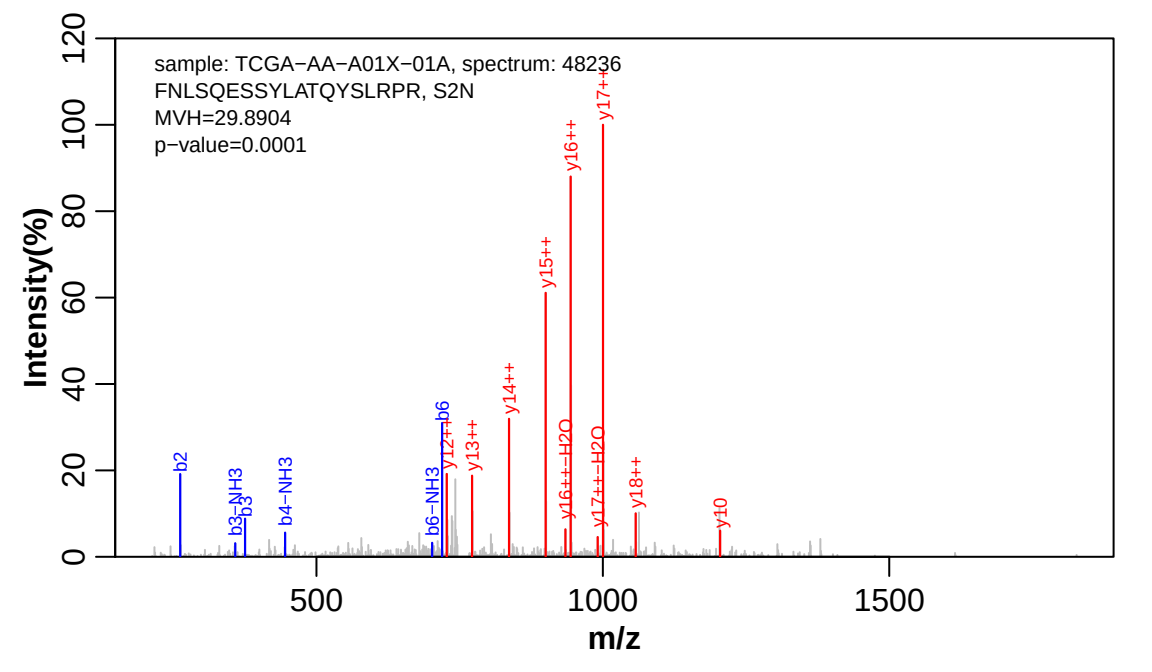

sample: TCGA−AA−A01X−01A, spectrum: 95216
EQPGSPEWLQLDK, Q13K
MVH=41.5554
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b5−H2O
b4
y4
y5
y8
b9−H2O
b9
y11

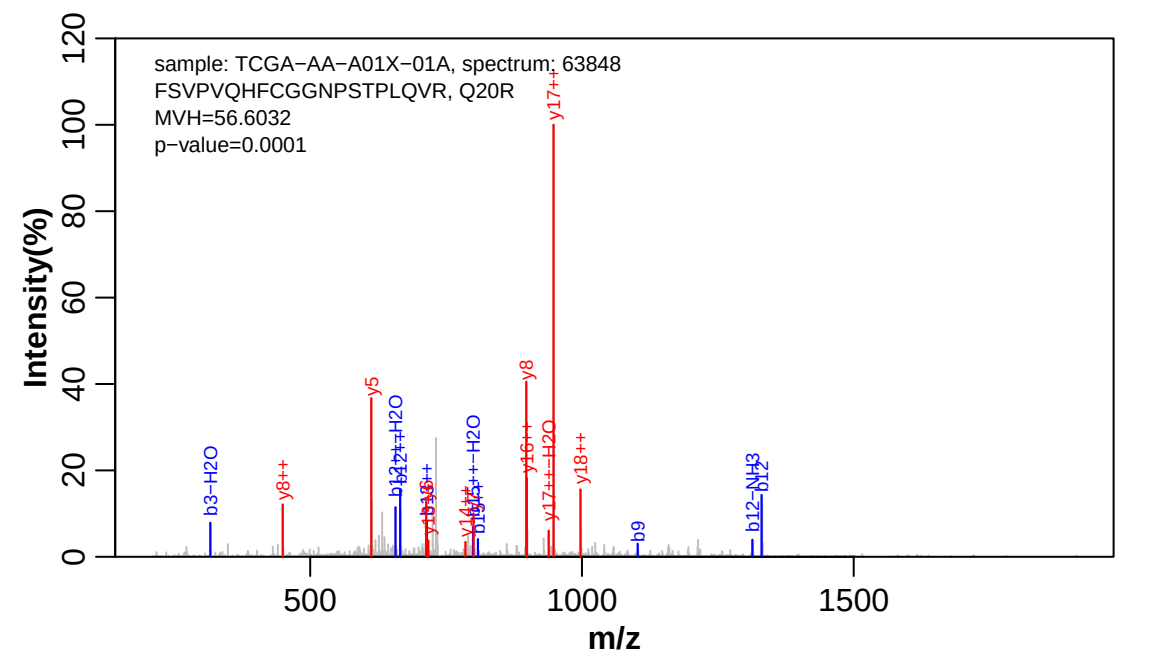

sample: TCGA−AA−A01X−01A, spectrum: 45777
FADVFAK, E7K
MVH=48.3686
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

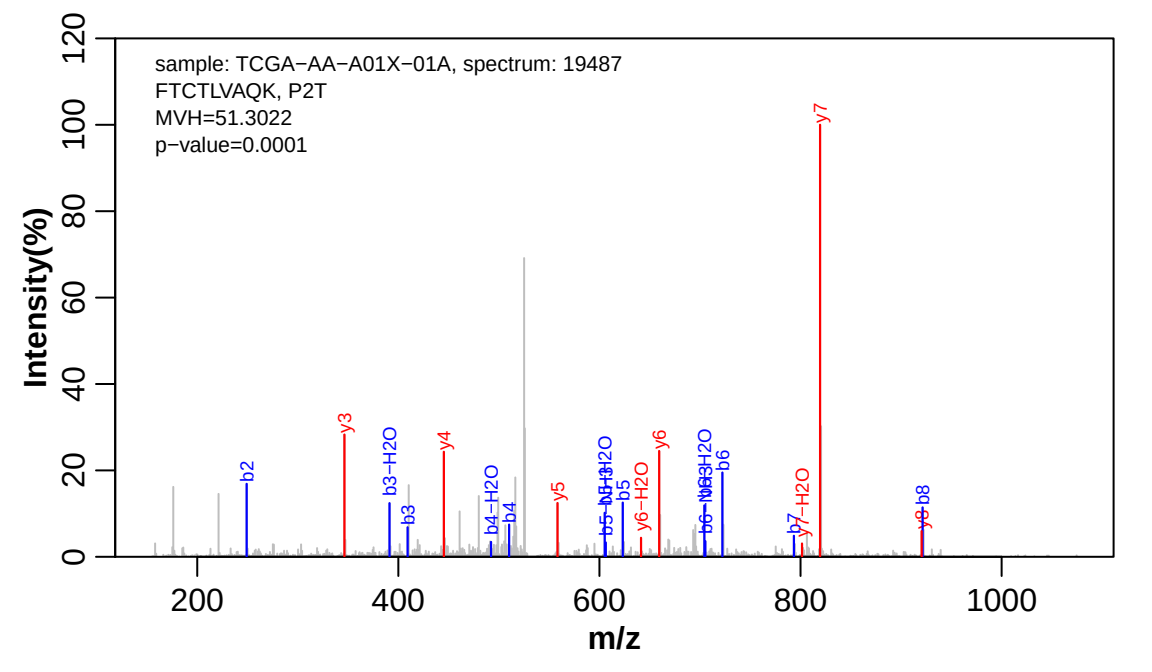

sample: TCGA−AA−A01X−01A, spectrum: 112636
FFGSLPDSWAR, S11R
MVH=40.9925
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
b5−H2O
b5
b5−NH3
b6−NH3
y7
y8
y5
b2
b4

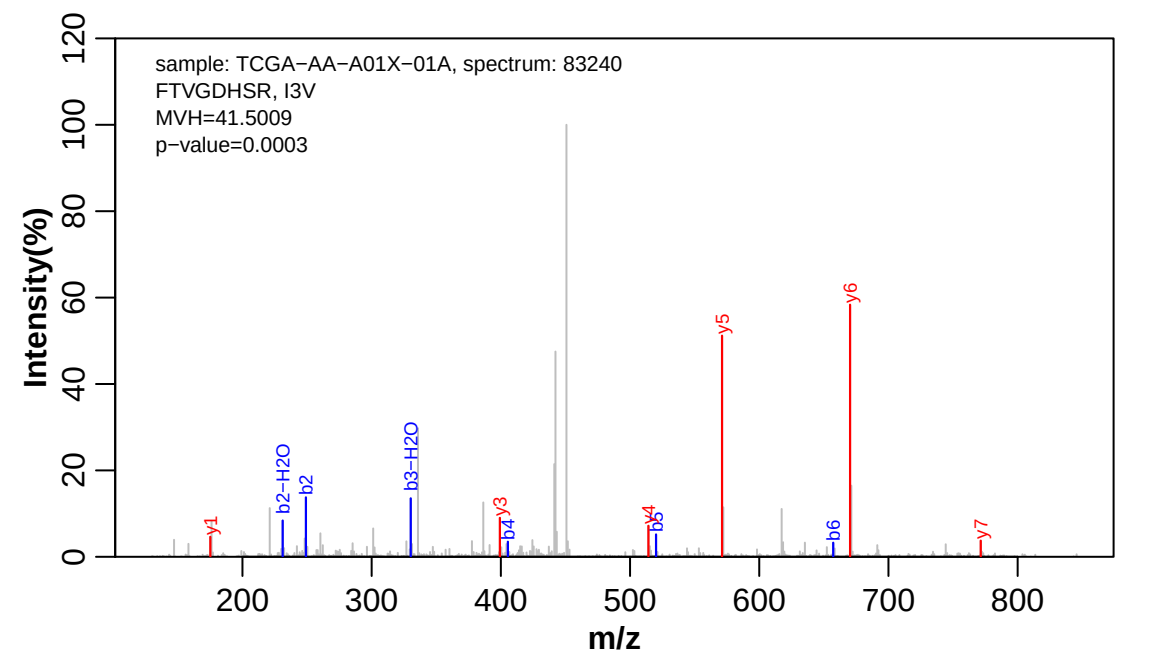

sample: TCGA−AA−A01X−01A, spectrum: 36667
FLDKLPQQTGDR, H12R
MVH=69.3534
p−value=0.0001
y10++
y10++−H2O
y11++
b2
y7++
y4
y9++
y8
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

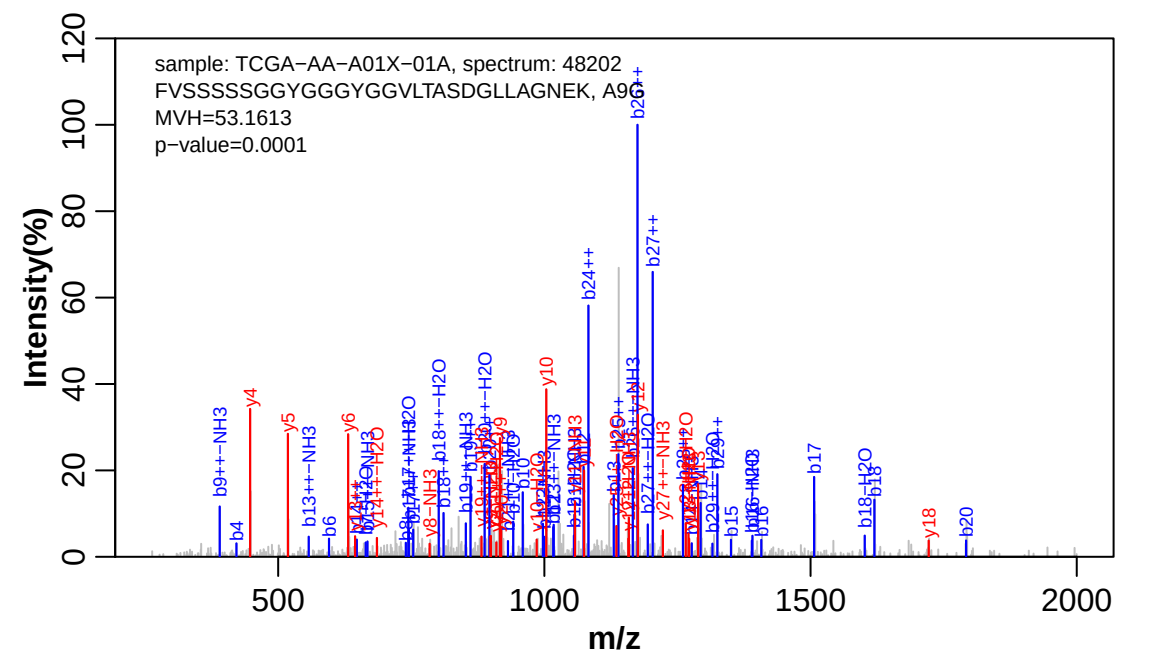

sample: TCGA−AA−A01X−01A, spectrum: 7291
FNKPFVFLMLDQNTK, E11D
MVH=59.8900
p−value=0.0001
Intensity(%)
m/z
y13++
y5
y6
b3
b8++
b9++−H2O
y10++
b11++
b6
b14/7+
b7
b8
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

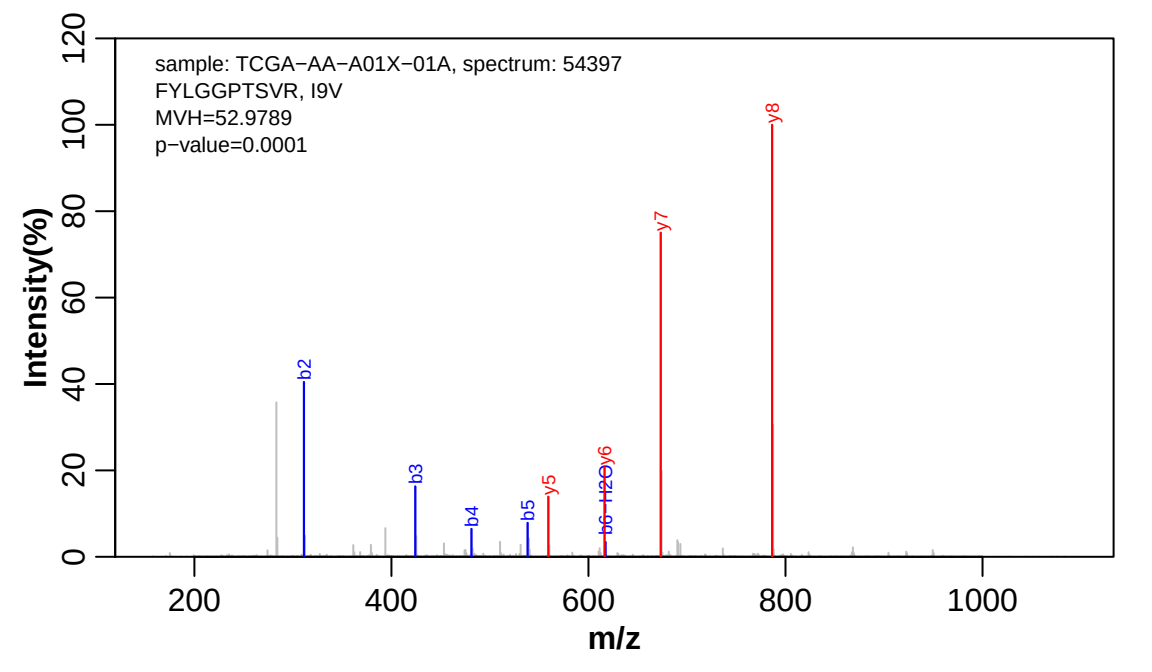

sample: TCGA−AA−A01X−01A, spectrum: 48236
FNLSQESSYLATQYSLRPR, S2N
MVH=29.8904
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3−NH3
b3
b4−NH3
b6−NH3
y12++
b6
y13++
y14++
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++
y10

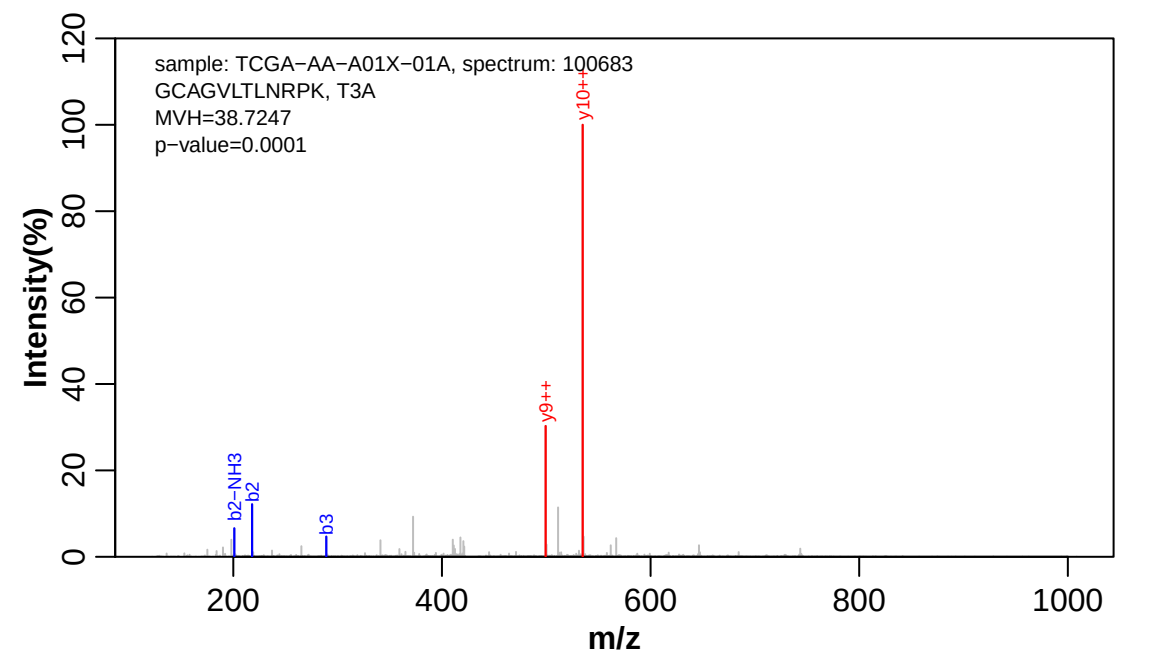

sample: TCGA−AA−A01X−01A, spectrum: 63848
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=56.6032
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y8
y5
y16++
y18++
b3−H2O
y8++
b12++H2O
y17++−H2O
b9
b12−NH3
b12

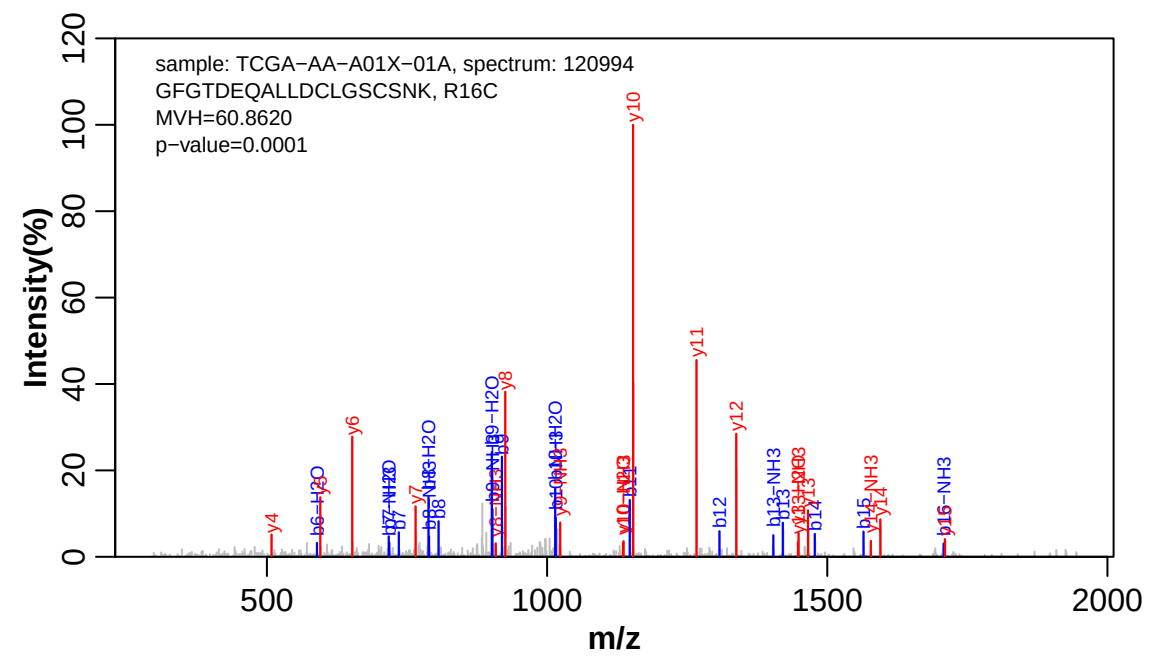

sample: TCGA−AA−A01X−01A, spectrum: 19487
FTCTLVAQK, P2T
MVH=51.3022
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b3−H2O
b3
y4
b4−H2O
b4
y5
b5−H2O
b5
y6−H2O
y6
b6−H2O
b6
y7−H2O
y7
y8
b8

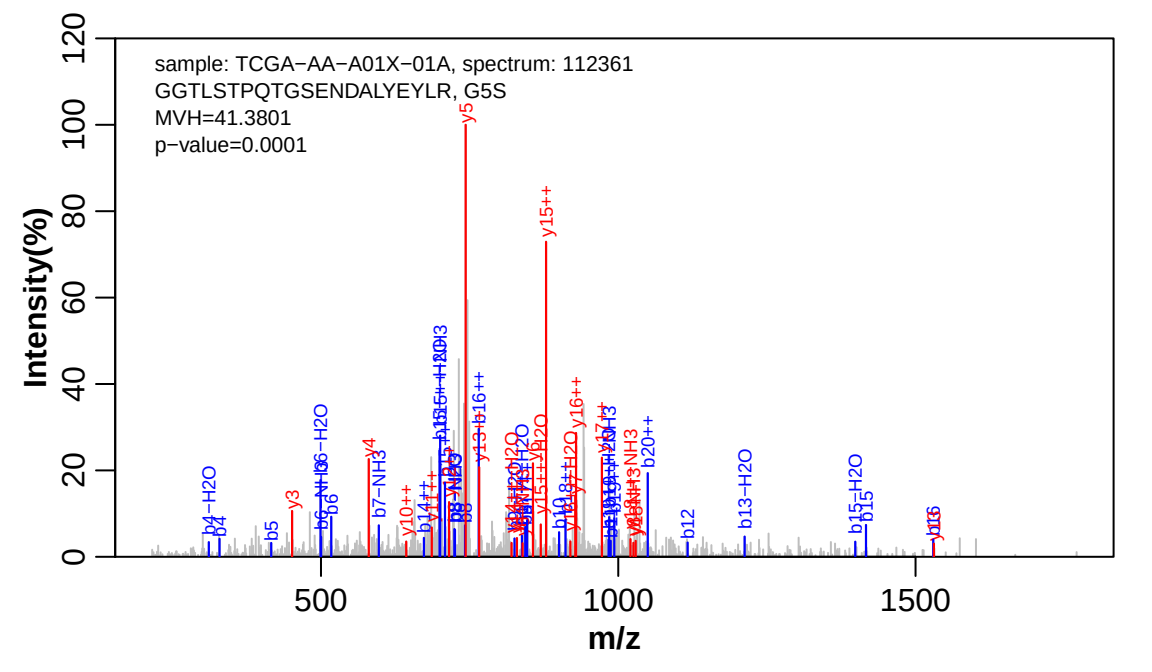

sample: TCGA−AA−A01X−01A, spectrum: 83240
FTVGDHSR, I3V
MVH=41.5009
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
300
400
500
600
700
800
y1
b2−H2O
b2
b3−H2O
y3
b4
y4
b5
y5
b6
y6
y7

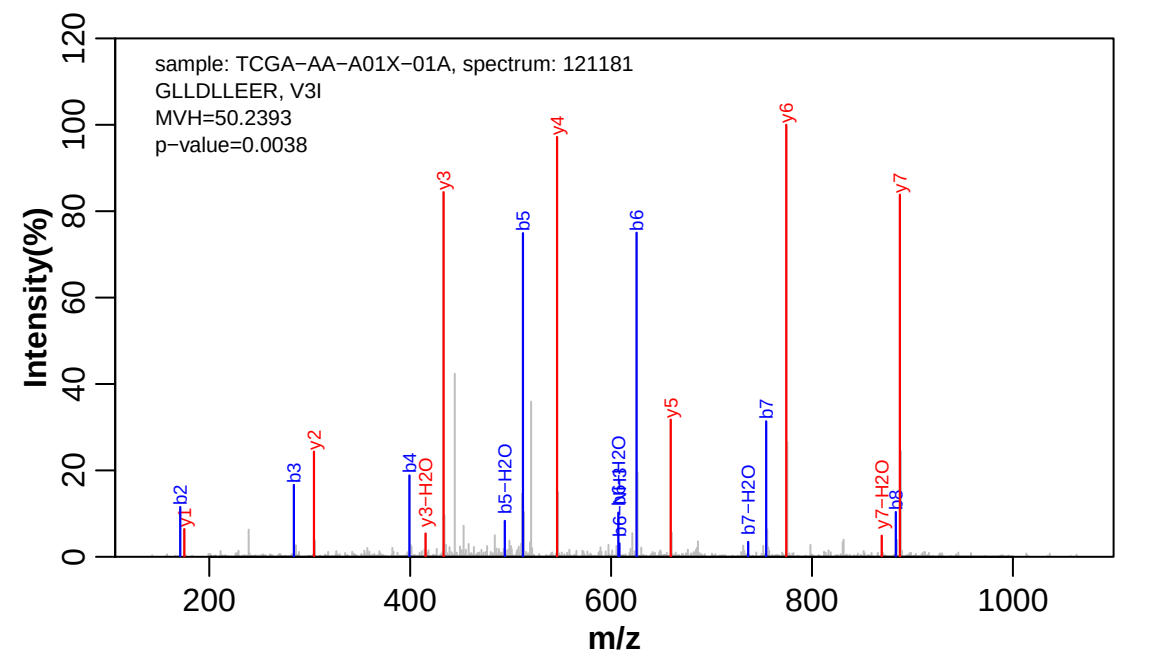

sample: TCGA−AA−A01X−01A, spectrum: 48202
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=53.1613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
b4
y4
y5
b13++−NH3
b6
y6
y14++−H2O
y8−NH3
b18++−H2O
b19++−NH3
y10
b24++
b26++
b27++
y27++−NH3
b29++
b15
b17
b18−H2O
b18
y18
b20

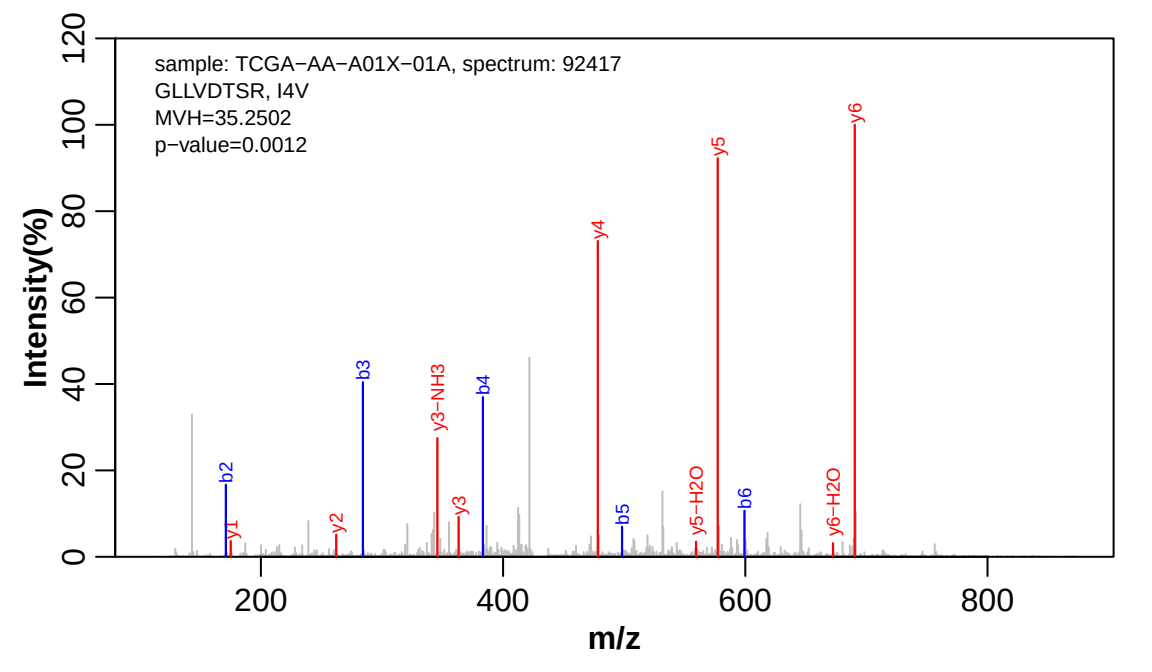

sample: TCGA−AA−A01X−01A, spectrum: 54397
FYLGGPTSVR, I9V
MVH=52.9789
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

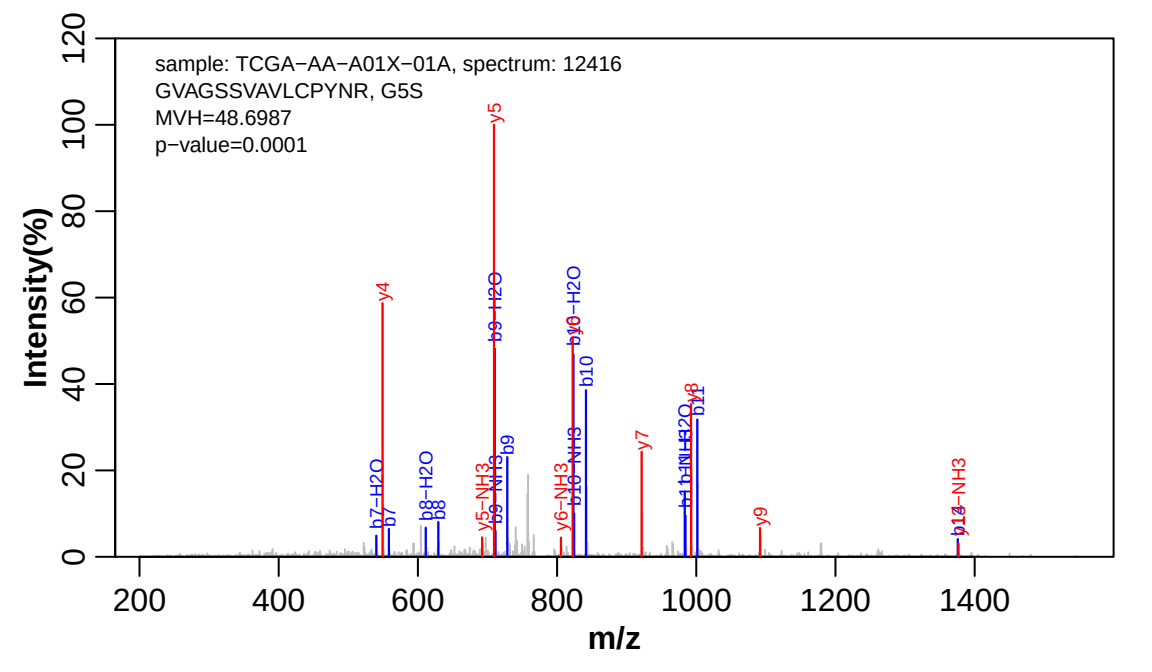

sample: TCGA−AA−A01X−01A, spectrum: 100683
GCAGVLTLNRPK, T3A
MVH=38.7247
p−value=0.0001
y10++
y9++
b2−NH3
b2
b3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

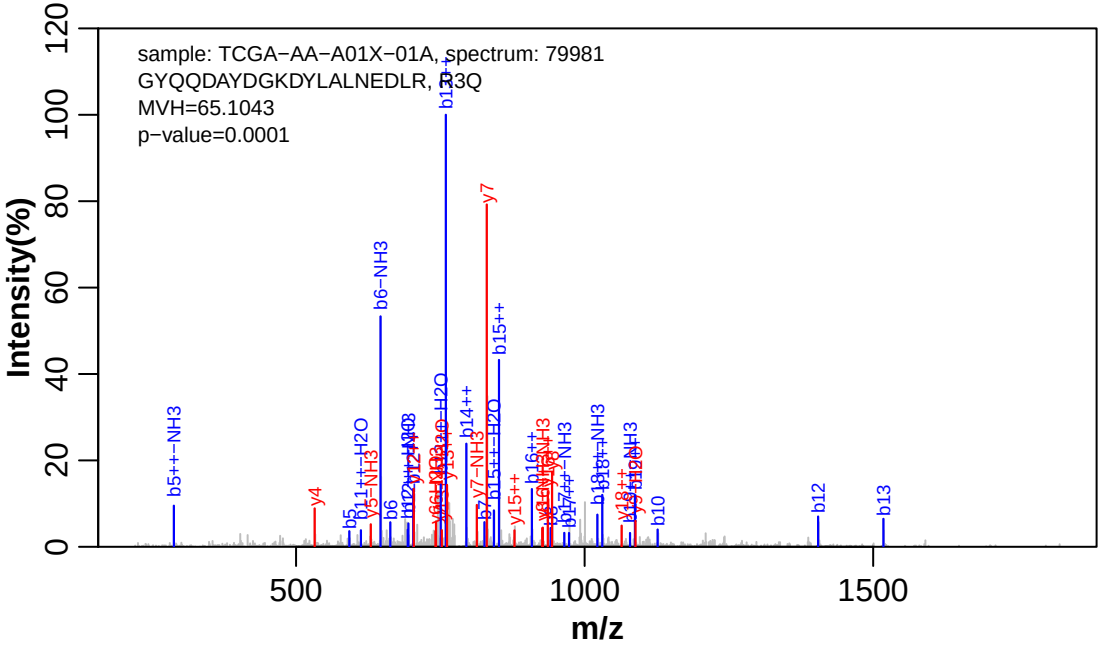

sample: TCGA−AA−A01X−01A, spectrum: 120994
GFGTDEQALLDCLGSCSNK, R16C
MVH=60.8620
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y8
y6
y4
y7
b12
b14
b15
b16−NH3
y14

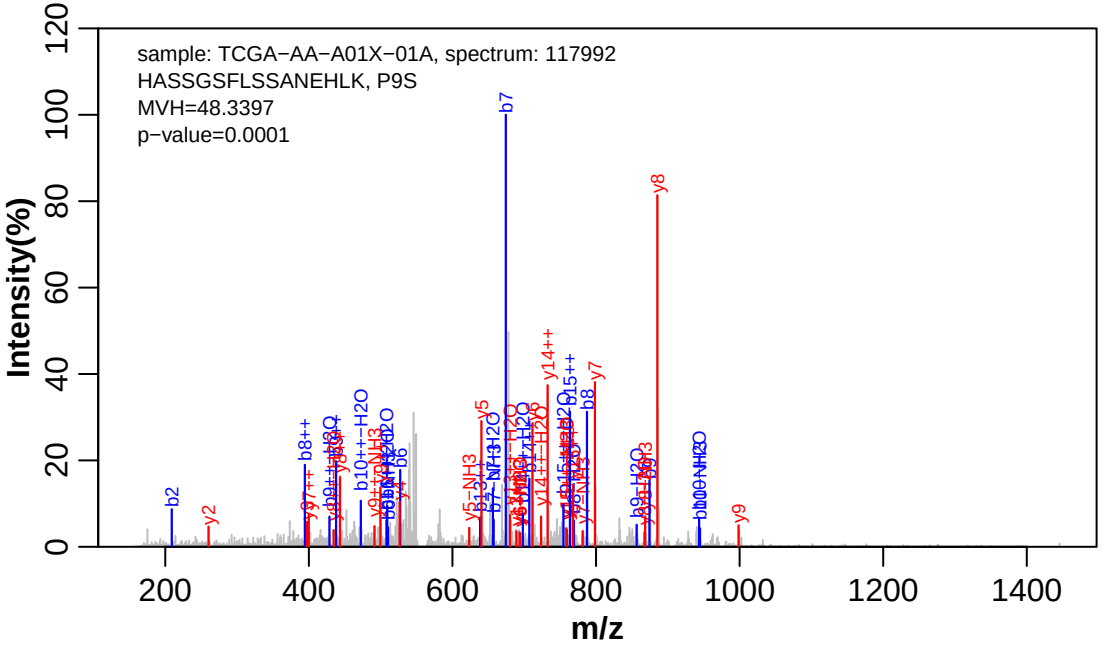

sample: TCGA−AA−A01X−01A, spectrum: 112361
GGTLSTPQTGSENDALYEYLR, G5S
MVH=41.3801
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y15++
y13−b16++
y16++
b4−H2O
b5
y3
b6
b7−NH3
y4
y10++
b13−H2O
b15−H2O
b15
b12
b20++
y15++−H2O
y15++−NH3

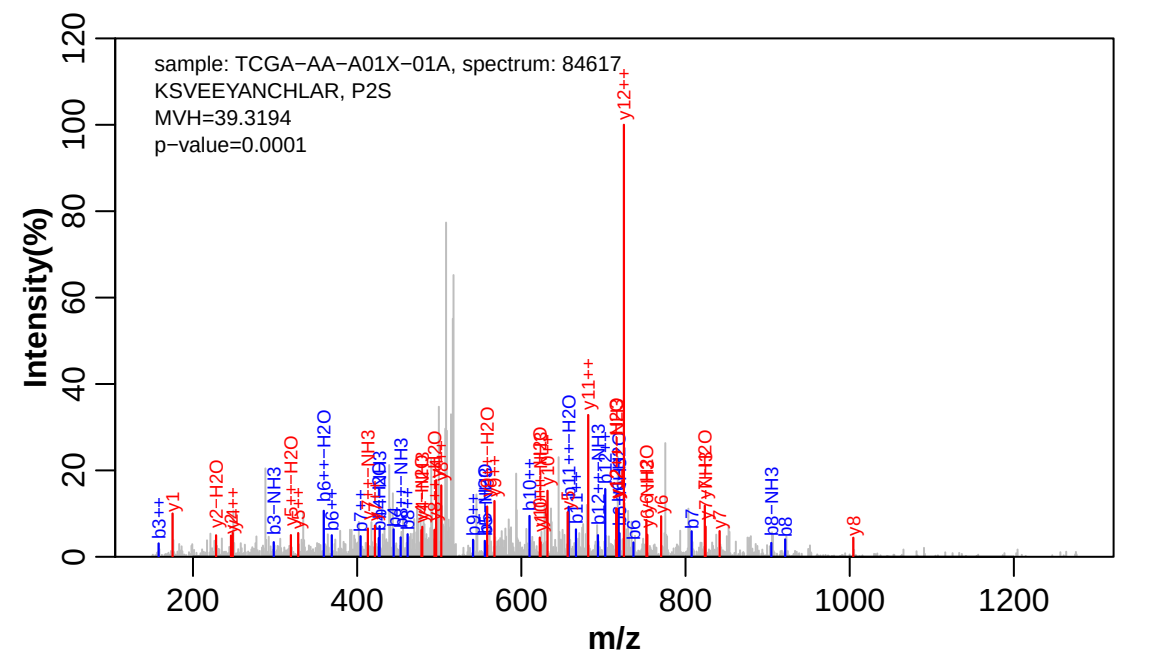

sample: TCGA−AA−A01X−01A, spectrum: 121181
GLLDLLEER, V3I
MVH=50.2393
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
b4
y3−H2O
y3
b5−H2O
b5
y4
b6
y5
b7
b7−H2O
y6
y7−H2O
y7
b8

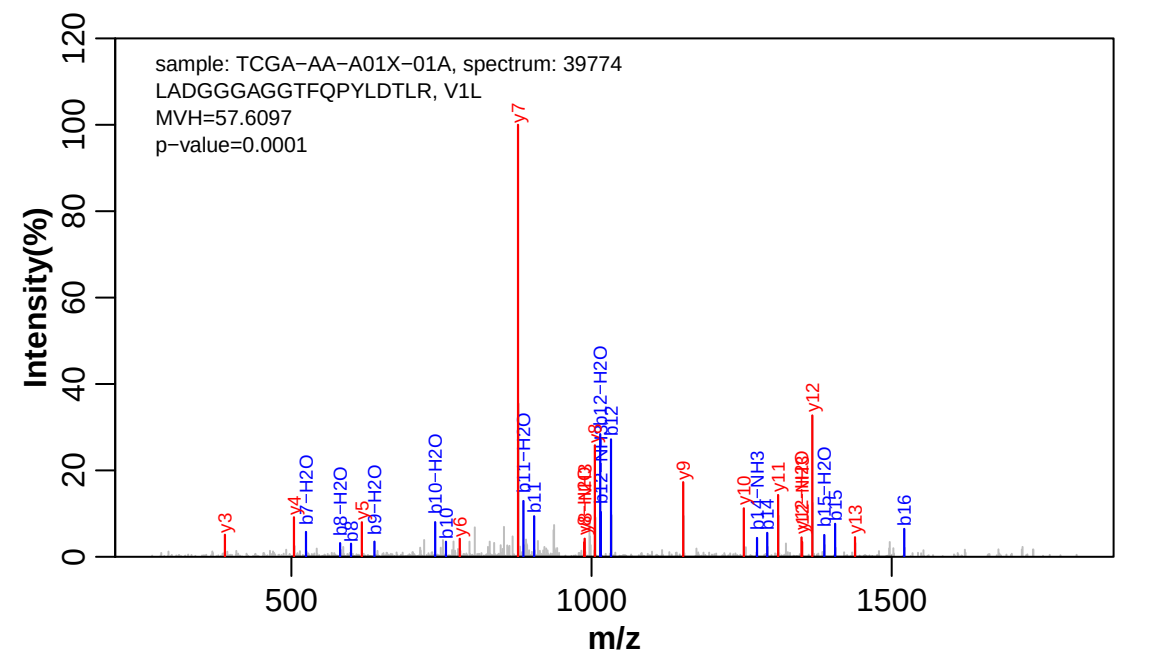

sample: TCGA−AA−A01X−01A, spectrum: 92417
GLLVDTSR, I4V
MVH=35.2502
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y1
y2
b3
y3−NH3
y3
b4
y4
b5
y5−H2O
y5
b6
y6−H2O
y6

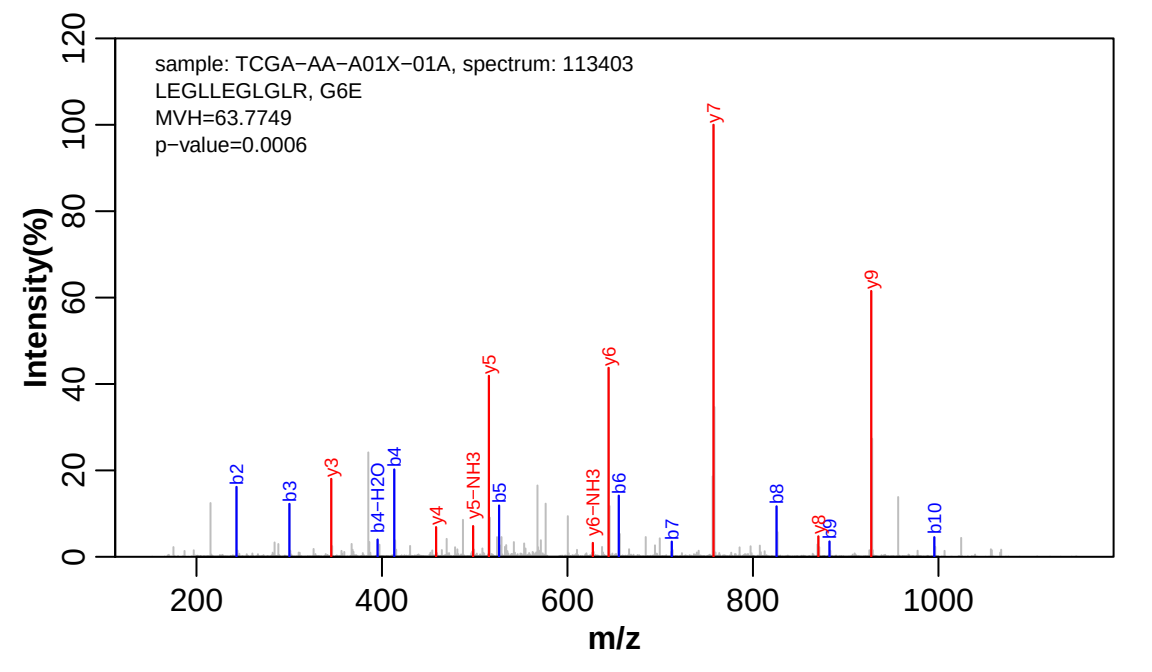

sample: TCGA−AA−A01X−01A, spectrum: 12416
GVAGSSVAVLCPYNR, G5S
MVH=48.6987
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
b10
y7
y9
y13−NH3
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9
y6−NH3
b10−NH3

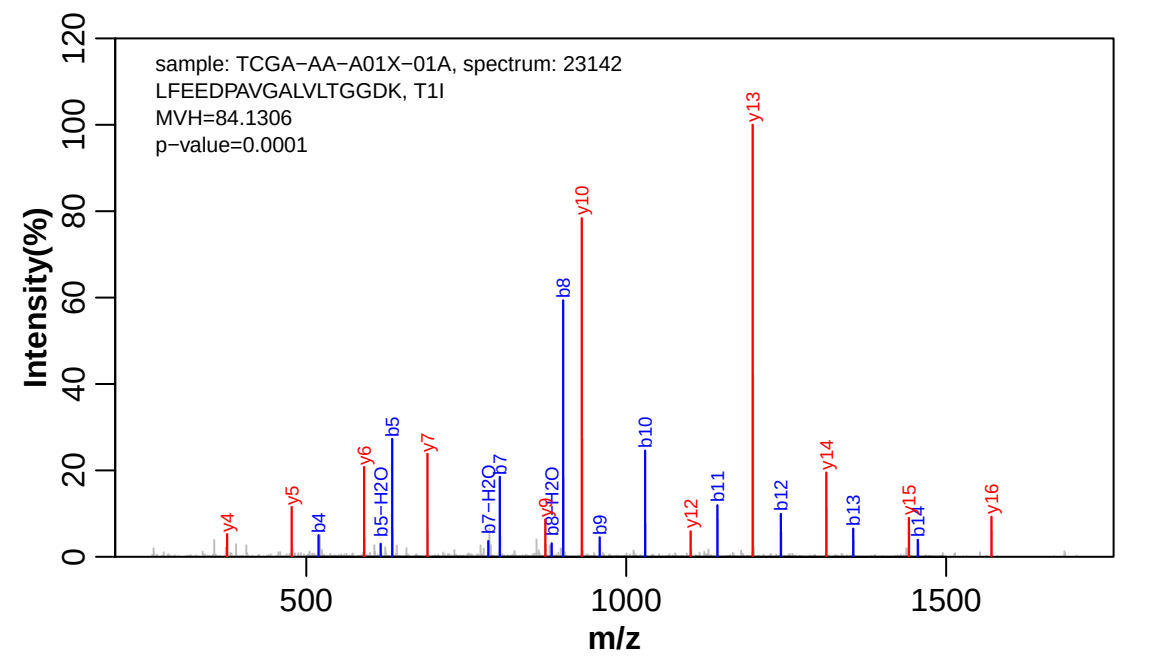

sample: TCGA−AA−A01X−01A, spectrum: 79981
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=65.1043
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
y4
b5
b11++−H2O
y5−NH3
b6
b6−NH3
b12++
b14++−H2O
b14++
y7−NH3
b7
b15++−H2O
y7
b15++
y15++
b16++
b17++−NH3
b18++−NH3
b10
b12
b13

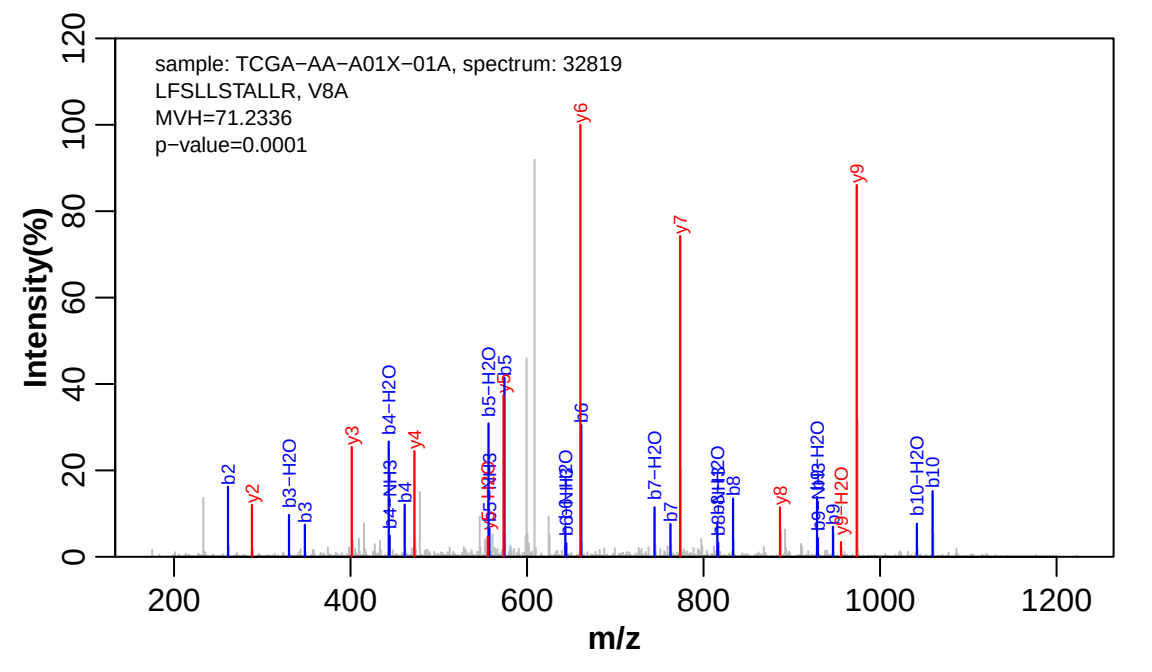

sample: TCGA−AA−A01X−01A, spectrum: 117992
HASSGSFLSSANEHLK, P9S
MVH=48.3397
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b7
y8
y5
y7
y9

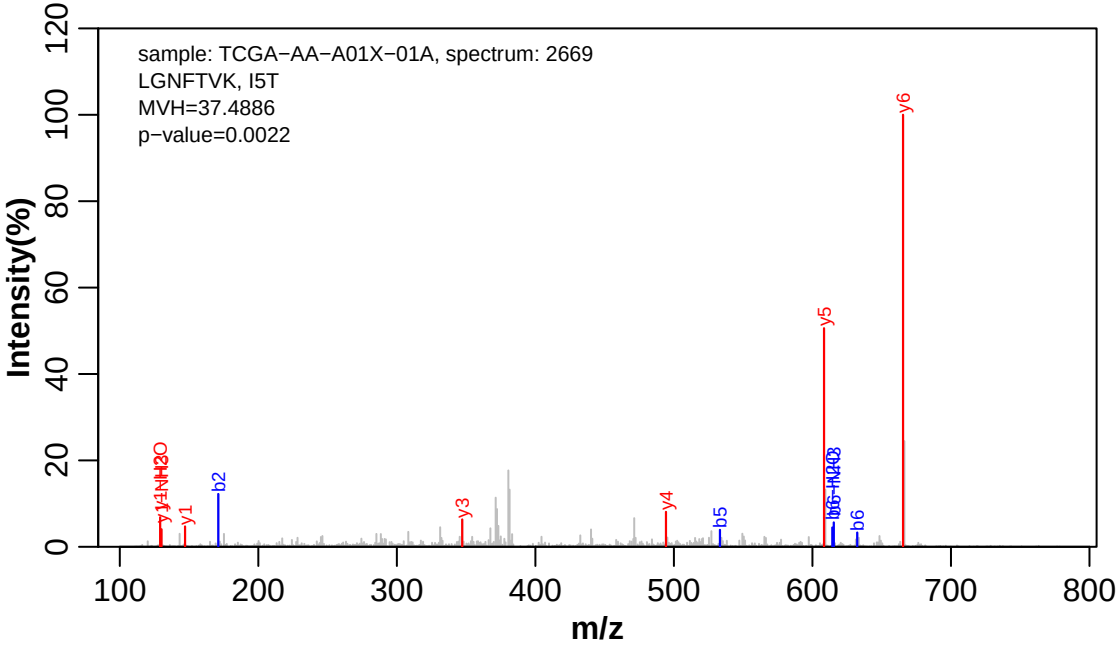

sample: TCGA−AA−A01X−01A, spectrum: 84617
KSVEEYANCHLAR, P2S
MVH=39.3194
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
b3++
y1
y2−H2O
y4++
b3−NH3
y5++−H2O
b6−H2O
b6++−H2O
b7++
b7++−NH3
b8++−NH3
b9++
b10++
y11++
y11++−H2O
b12++−NH3
y6
b7
y7
b8−NH3
b8
y8

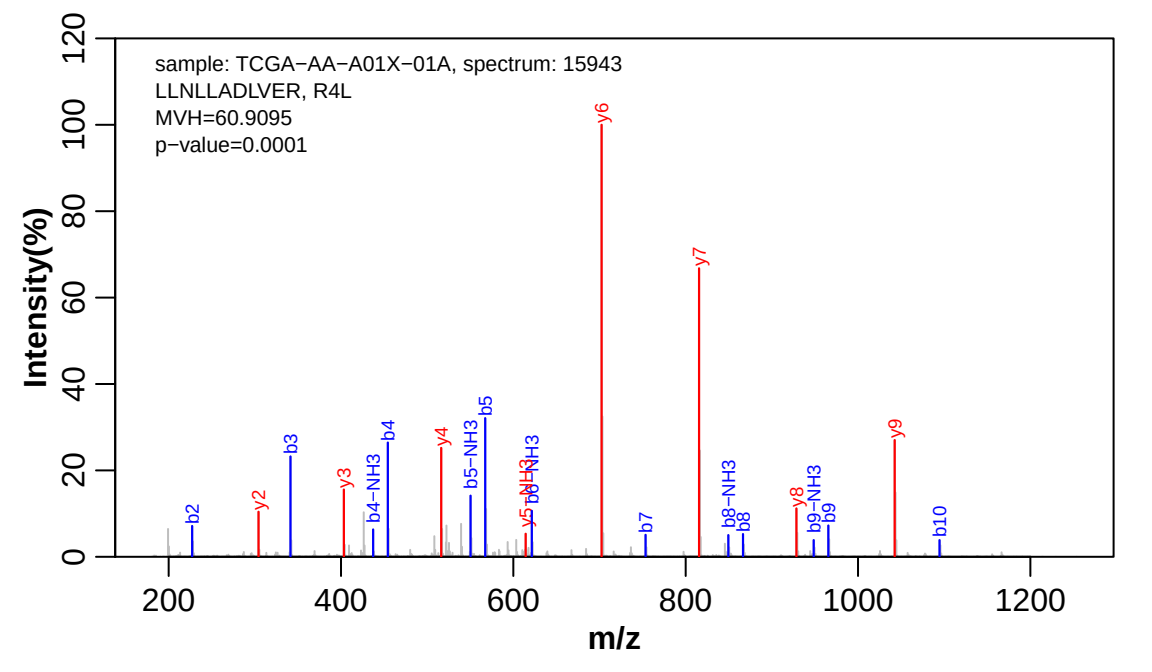

sample: TCGA−AA−A01X−01A, spectrum: 39774
LADGGGAGGTFQPYLDTLR, V1L
MVH=57.6097
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b7−H2O
b8−H2O
b8
y5
b9−H2O
b10−H2O
b10
y6
y7
b11−H2O
b11
b12−H2O
b12
y9
y10
b14−NH3
b14
y11
y12
b15−H2O
b15
y13
b16

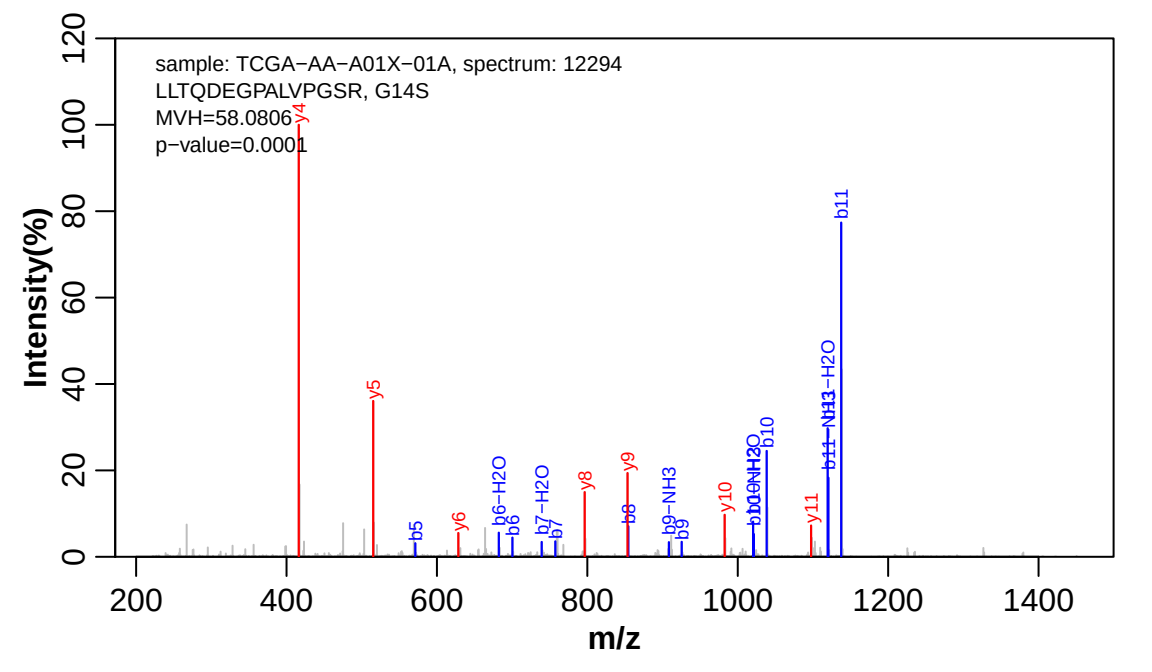

sample: TCGA−AA−A01X−01A, spectrum: 113403
LEGLLEGLGLR, G6E
MVH=63.7749
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y3
b4−H2O
b4
y4
y5−NH3
y5
b5
y6−NH3
y6
b6
b7
y7
b8
y8
b9
y9
b10

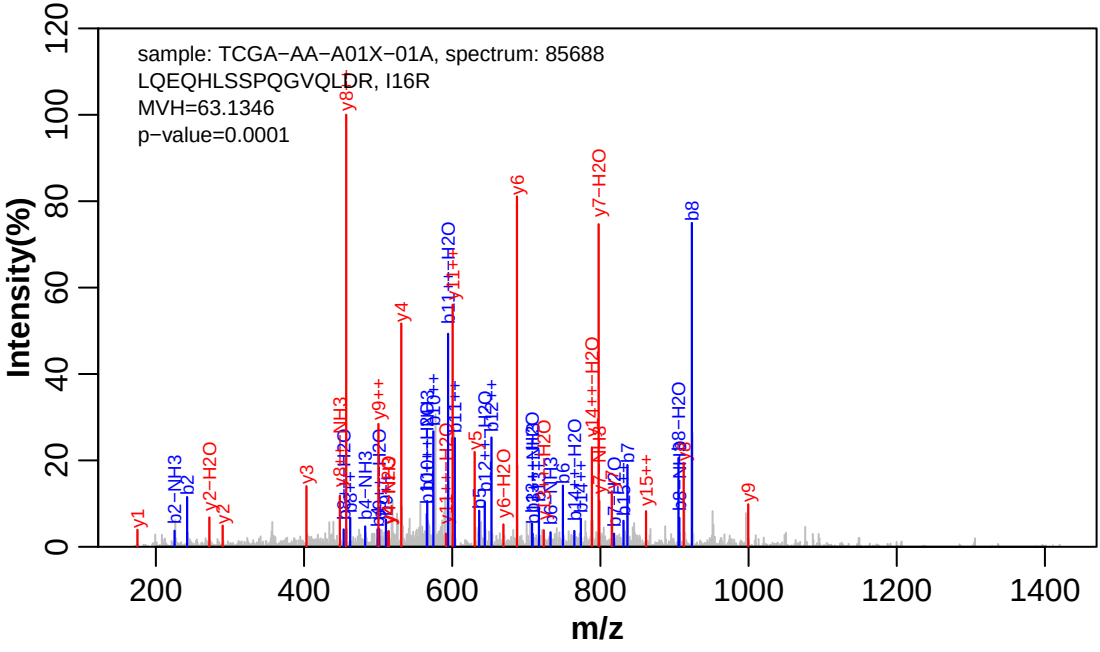

sample: TCGA−AA−A01X−01A, spectrum: 23142
LFEEDPAVGALVLTGGDK, T1I
MVH=84.1306
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y9
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

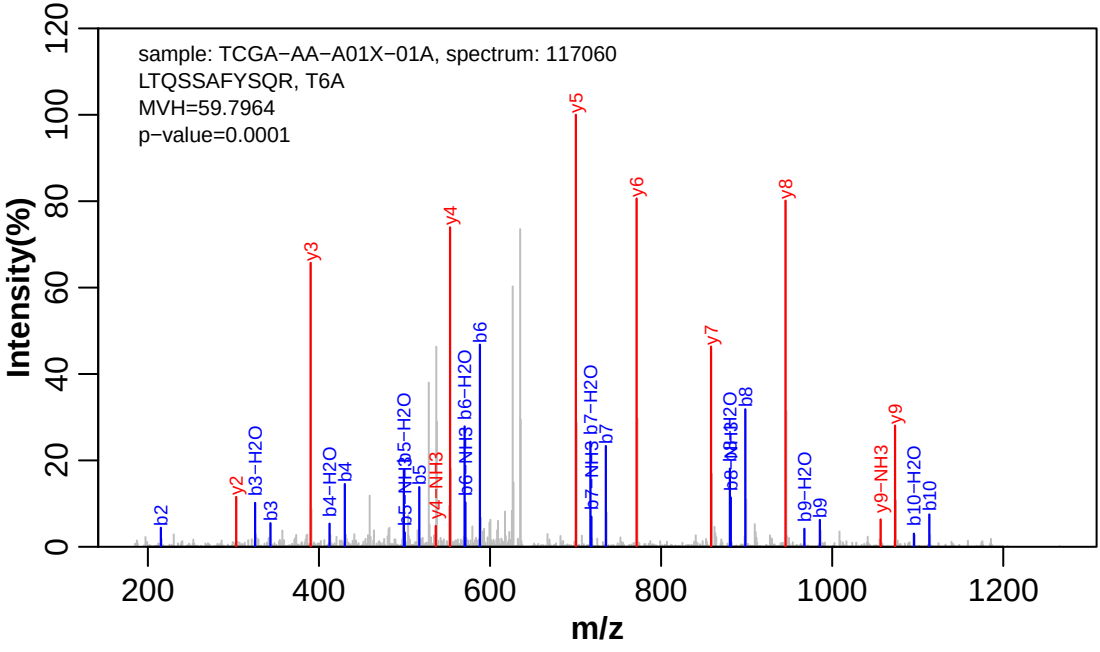

sample: TCGA−AA−A01X−01A, spectrum: 32819
LFSLLSTALLR, V8A
MVH=71.2336
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y3
y4
y5
y2
y8
b2
b3−H2O
b3
b4−H2O
b4−NH3
b4
b5−H2O
b5
b6
b7−H2O
b7
b8
b10−H2O
b10

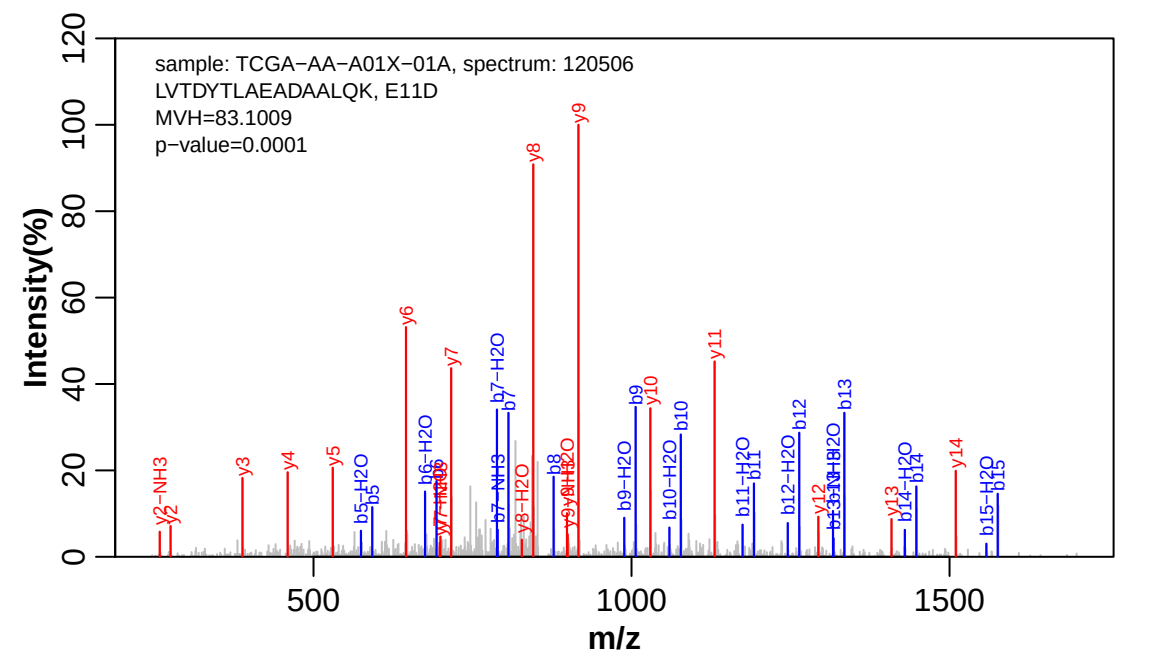

sample: TCGA−AA−A01X−01A, spectrum: 2669
LGNFTVK, I5T
MVH=37.4886
p−value=0.0022
Intensity(%)
m/z
y6
y5
y4
y3
b2
y1
b5
b6
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800

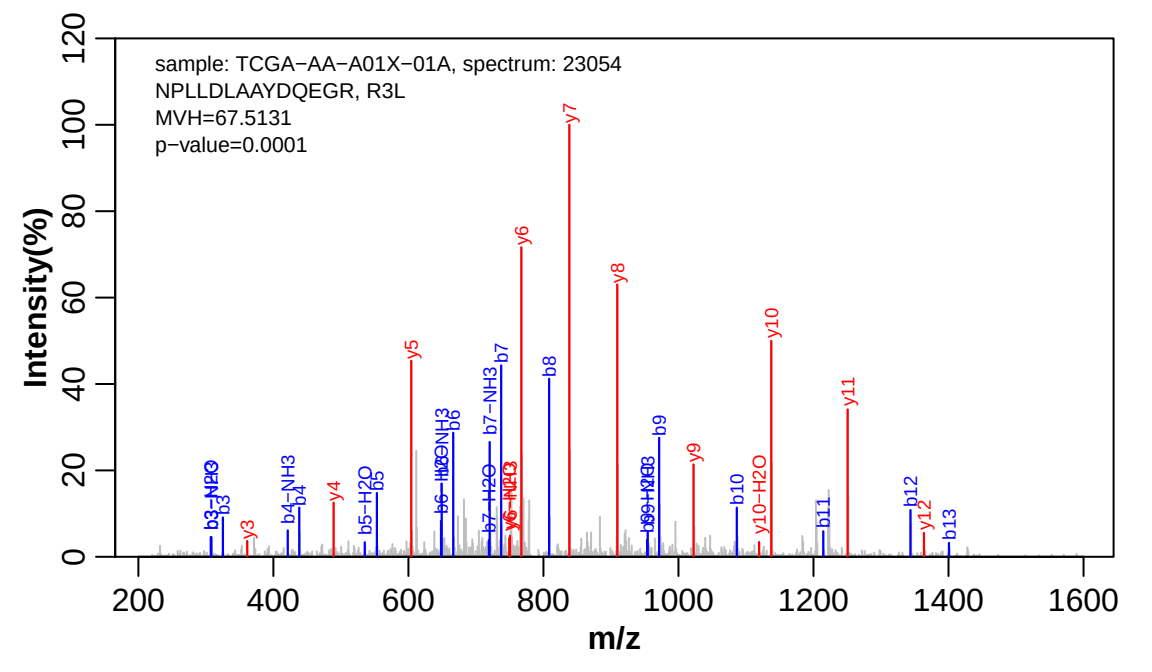

sample: TCGA−AA−A01X−01A, spectrum: 15943
LLNLLADLVER, R4L
MVH=60.9095
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

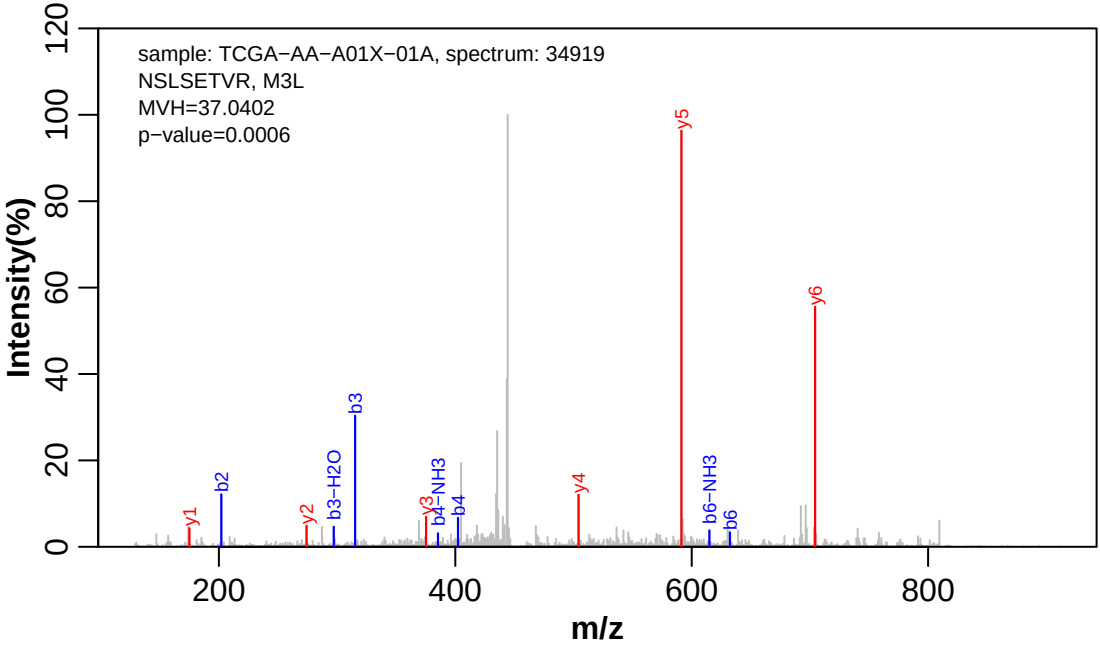

sample: TCGA−AA−A01X−01A, spectrum: 12294
LLTQDEGPALVPGSR, G14S
MVH=58.0806
p−value=0.0001
Intensity(%)
m/z
y4
y5
b5
y6
b6−H2O
b6
b7−H2O
b7
y8
b8
y9
b9−NH3
b9
y10
b10
y11
b11
b11−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

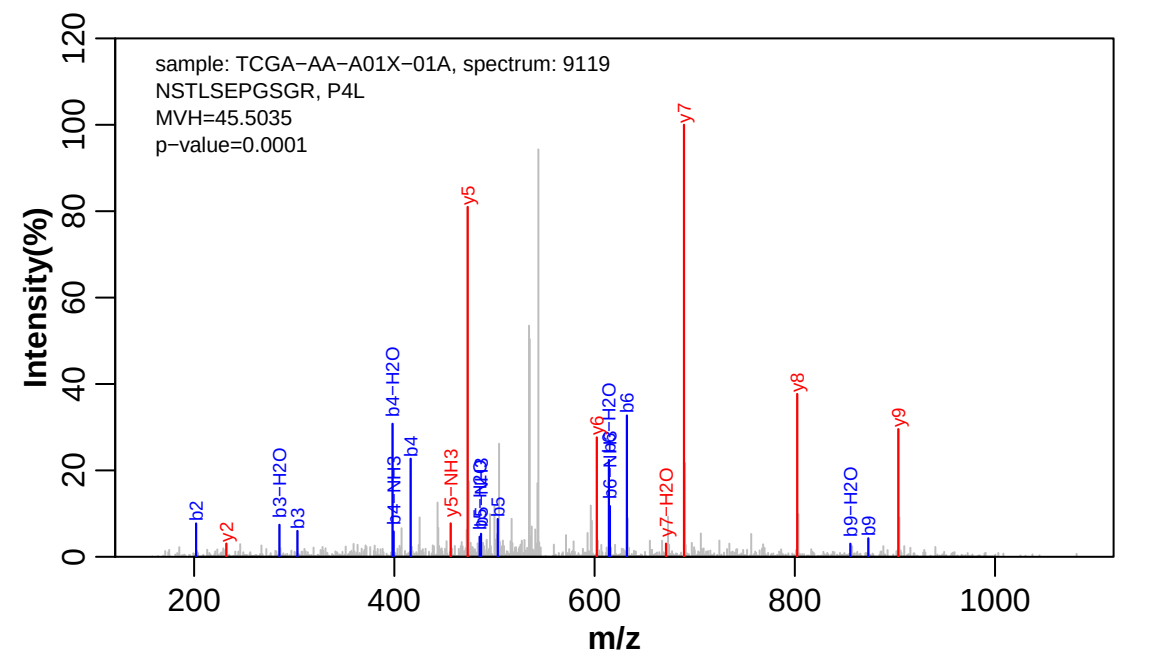

sample: TCGA−AA−A01X−01A, spectrum: 85688
LQEQHLSSPQGVQLDR, I16R
MVH=63.1346
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
b2−NH3
b2
y2−H2O
y2
y3
y8++
y8
b4−NH3
y4
y9++
y9
b11++
b11++−H2O
b11++−NH3
y11++
y11++−H2O
y5
b12++
b12++−H2O
y6
y6−H2O
b6
b6−NH3
b6−H2O
b14++
b14++−H2O
y14++
y14++−H2O
y7
y7−NH3
y7−H2O
b7
y15++
b8
b8−NH3
b8−H2O
y9

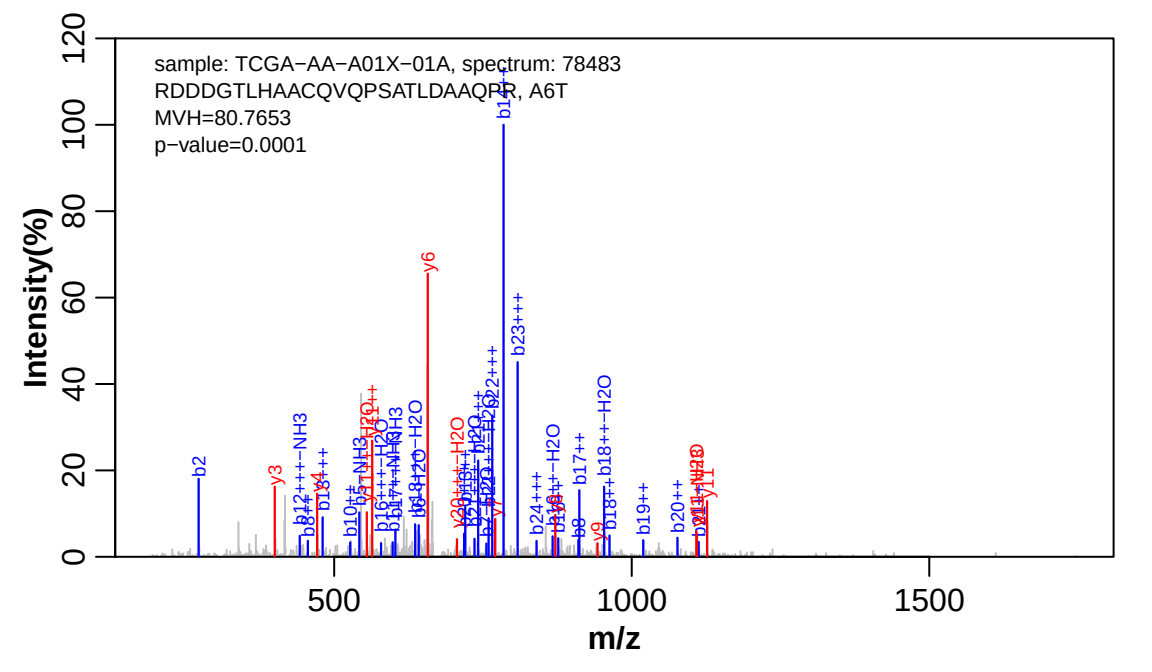

sample: TCGA−AA−A01X−01A, spectrum: 117060
LTQSSAFYSQR, T6A
MVH=59.7964
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y4−NH3
y4
b6−NH3
b6−H2O
b6
y5
b7−NH3
b7−H2O
b7
y6
b8−NH3
b8−H2O
b8
y7
y8
b9−H2O
b9
y9−NH3
y9
b10−H2O
b10

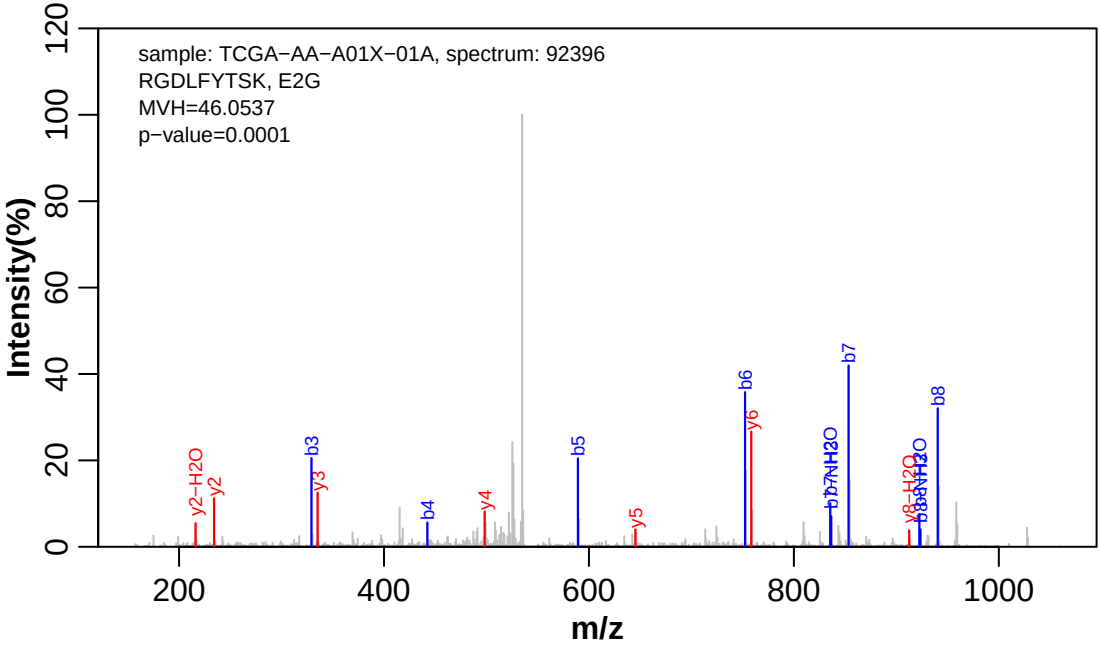

sample: TCGA−AA−A01X−01A, spectrum: 120506
LVTDYTLAEADAALQK, E11D
MVH=83.1009
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y8
y6
y7
y5
y4
y3
y2−NH3
y2
b7−H2O
b7
b6−H2O
b5−H2O
b5
y11
y10
b9
b10
b9−H2O
b10−H2O
b11−H2O
b11
b12
b12−H2O
b13
y12
y14
y13
b14−H2O
b14
b15−H2O
b15
b8
y8−H2O

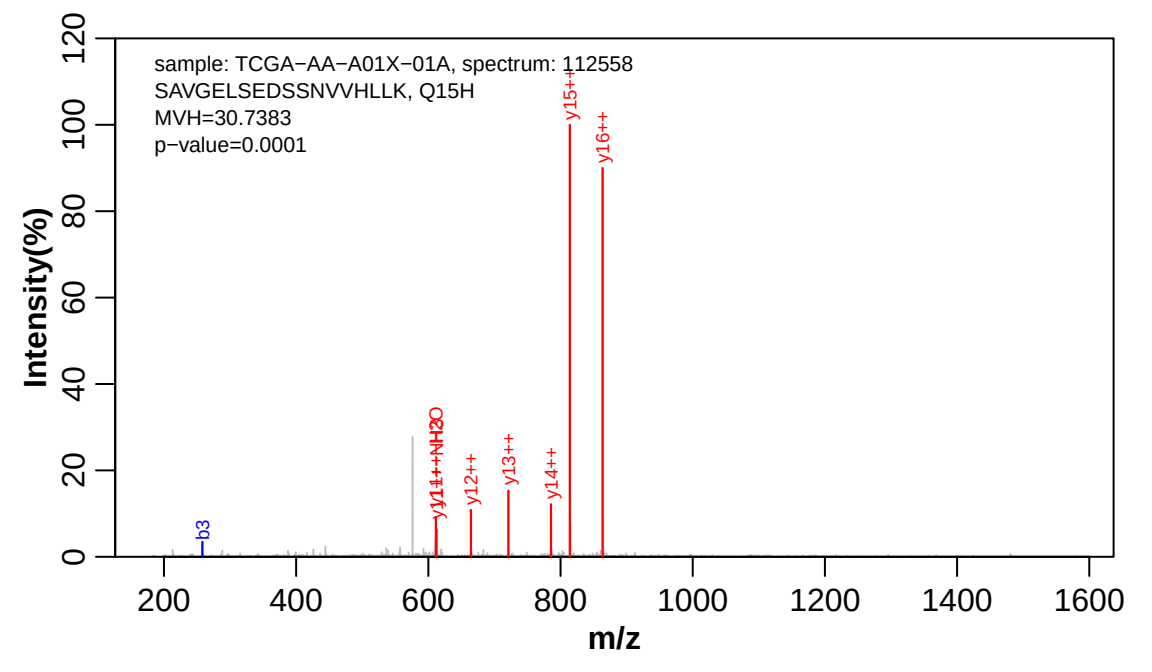

sample: TCGA−AA−A01X−01A, spectrum: 23054
NPLLDLAAYDQEGR, R3L
MVH=67.5131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y11
y5
y4
y3
y9
y12
b8
b7
b7−NH3
b9
b10
b12
b13
b11
b4−NH3
b5−H2O
y10−H2O

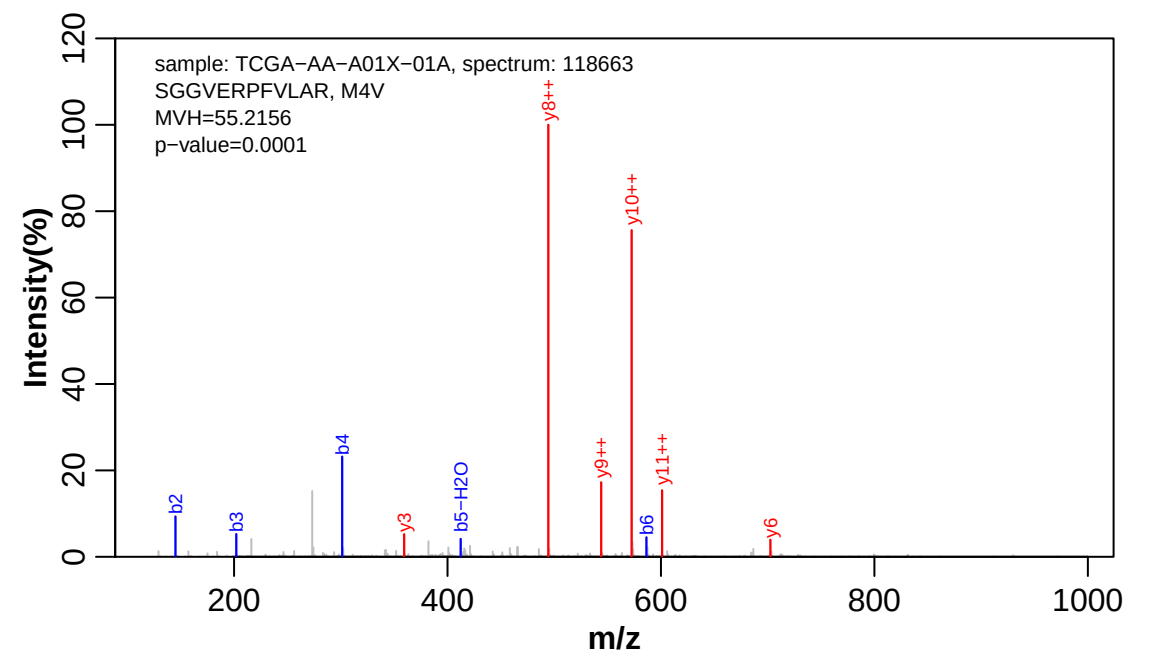

sample: TCGA−AA−A01X−01A, spectrum: 34919
NSLSETVR, M3L
MVH=37.0402
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
y2
b3−H2O
b3
y3
b4−NH3
b4
y4
y5
b6−NH3
b6
y6

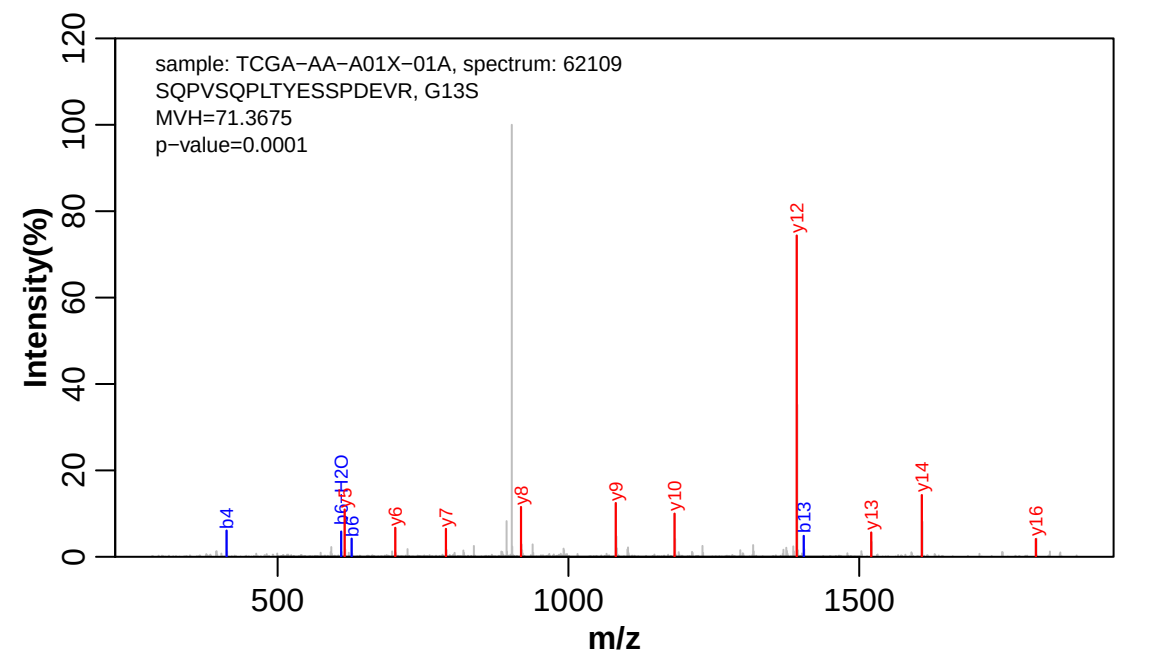

sample: TCGA−AA−A01X−01A, spectrum: 9119
NSTLSEPGSGR, P4L
MVH=45.5035
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
b3−H2O
b3
b4−H2O
b4−NH3
b4
y5−NH3
y5
b5
b6−H2O
b6
y6
y7−H2O
y7
y8
b9−H2O
b9
y9

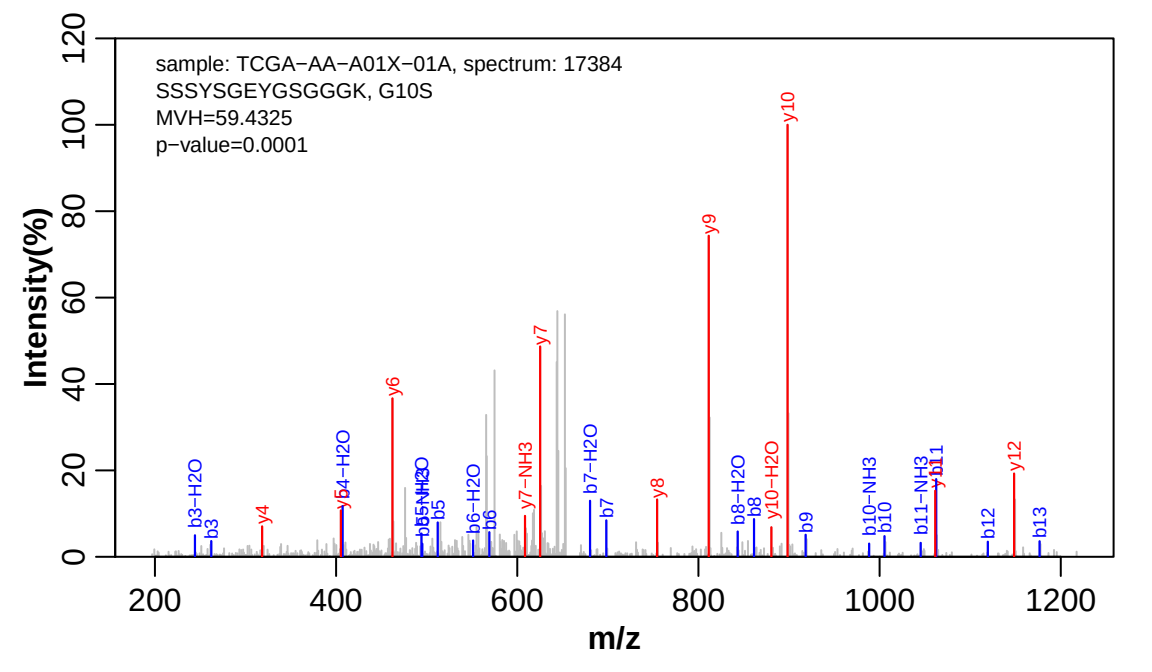

sample: TCGA−AA−A01X−01A, spectrum: 78483
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=80.7653
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b12++−NH3
b18++
y4
b10++
b5
b17++−NH3
y11++−H2O
y11++
b16++−H2O
b17++−NH3
b18++−H2O
y6
b1++
b23+++
y20++−H2O
b22+++
b24+++
b17++
b8
b18++−H2O
y9
b18++
b19++
b20++
y11

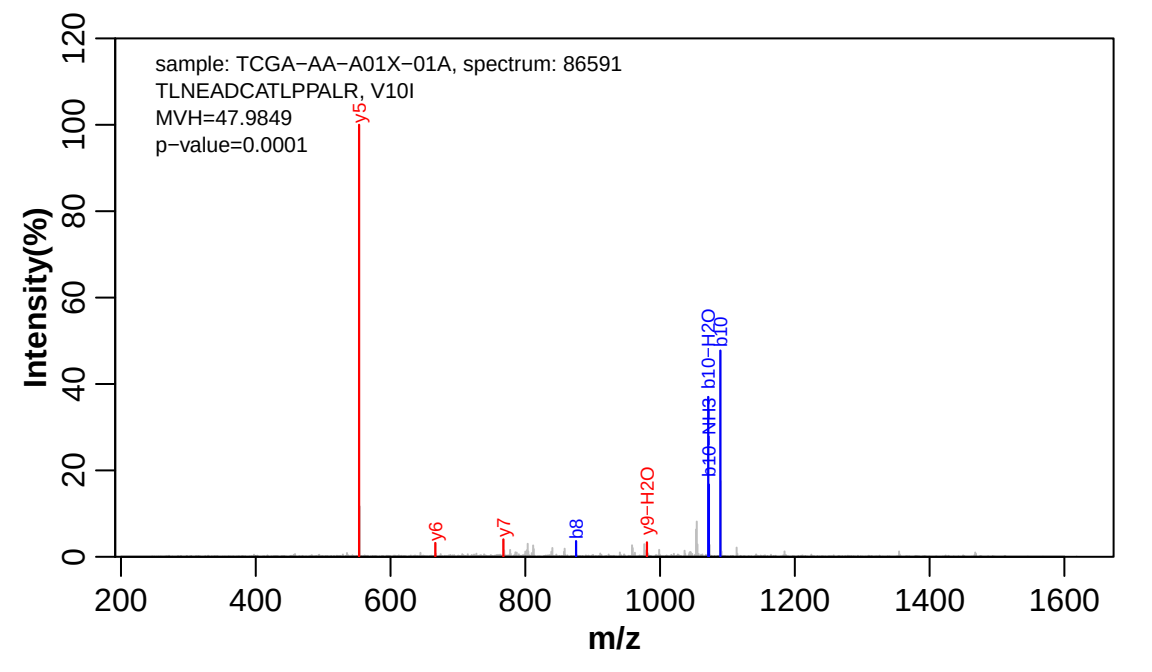

sample: TCGA−AA−A01X−01A, spectrum: 92396
RGDLFYTSK, E2G
MVH=46.0537
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6
b7
b8

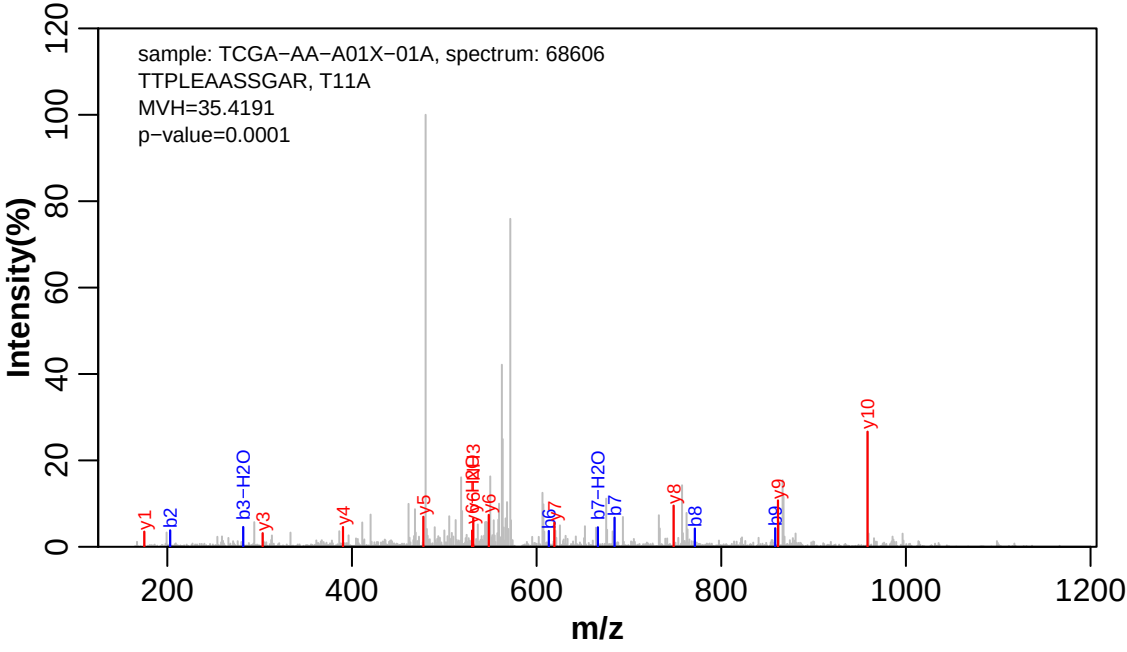

sample: TCGA−AA−A01X−01A, spectrum: 112558
SAVGELSEDSSNVVHLLK, Q15H
MVH=30.7383
p−value=0.0001
y15++
y16++
y11++−NH2O
y12++
y13++
y14++
b3
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

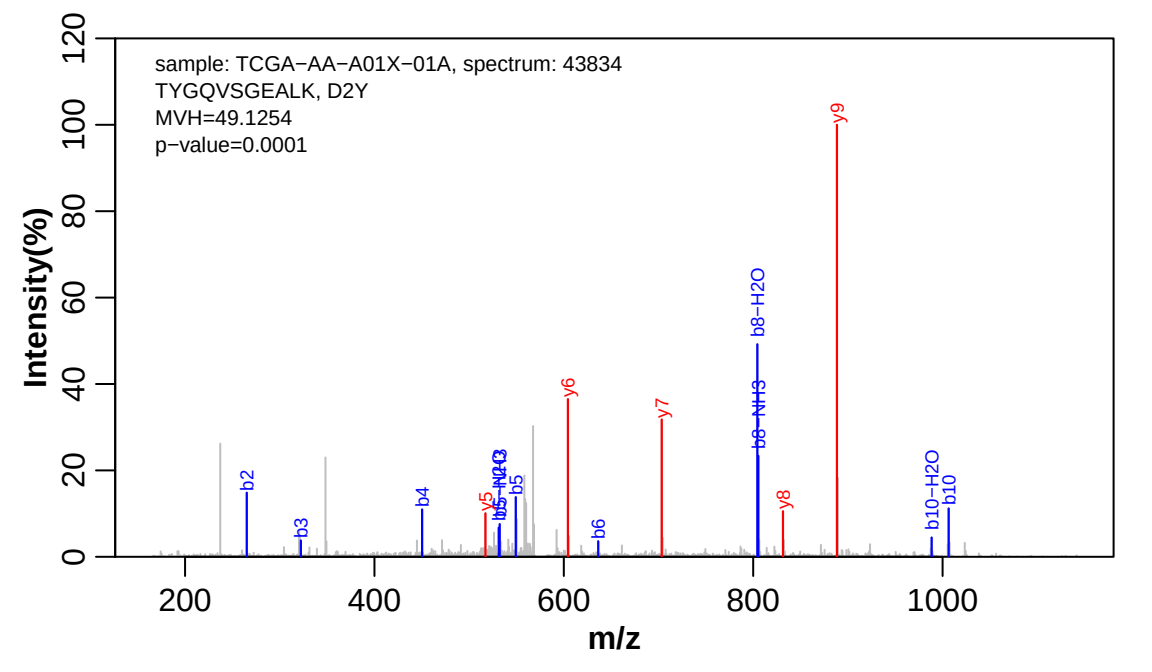

sample: TCGA−AA−A01X−01A, spectrum: 118663
SGGVERPFVLAR, M4V
MVH=55.2156
p−value=0.0001
y8++
y10++
b4
y9++
y11++
b2
b3
y3
b5−H2O
b6
y6
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

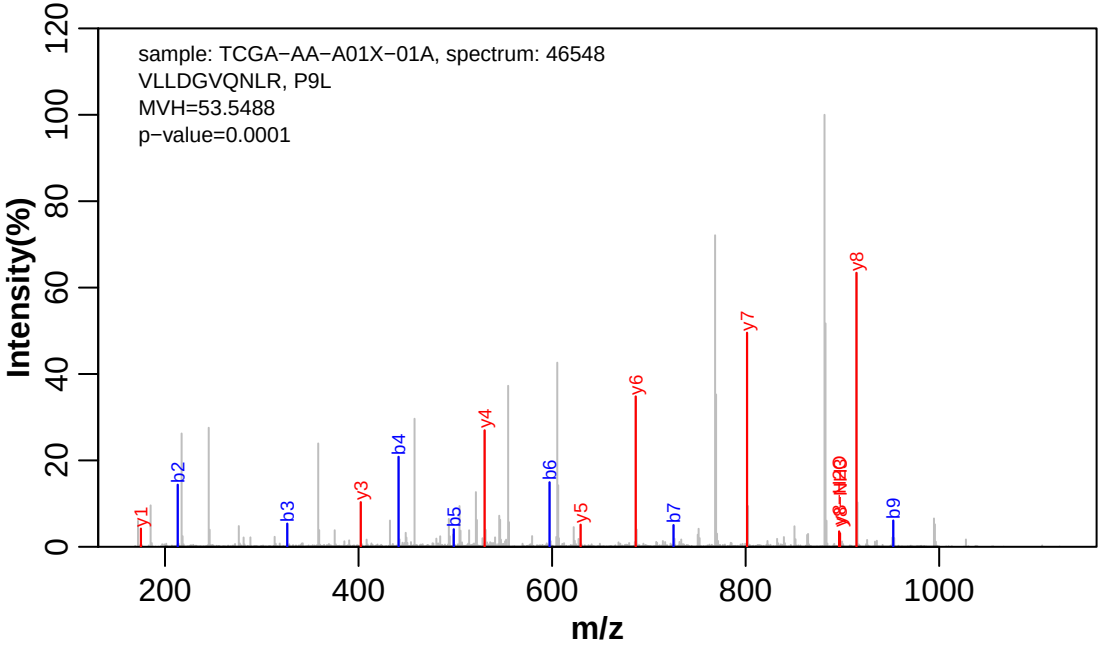

sample: TCGA−AA−A01X−01A, spectrum: 62109
SQPVSQPLTYESSPDEVR, G13S
MVH=71.3675
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b6-H2O
b6
y6
y7
y8
y9
y10
b13
y12
y13
y14
y16

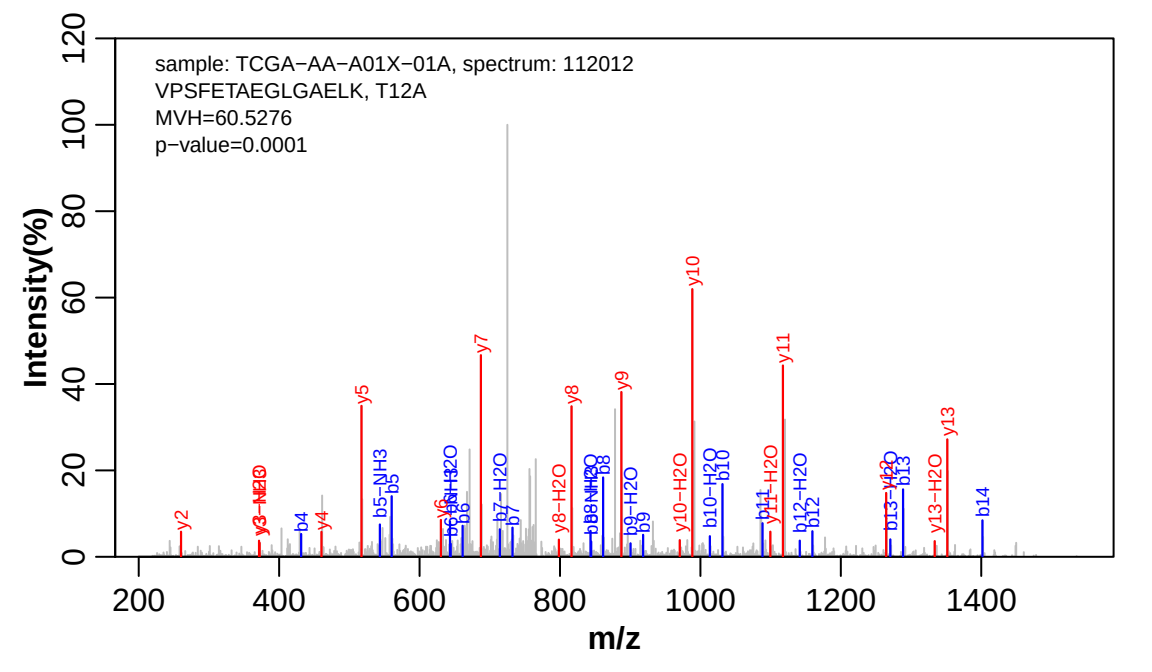

sample: TCGA−AA−A01X−01A, spectrum: 17384
SSSYSGEYGSGGGK, G10S
MVH=59.4325
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
y4
y5−H2O
y5
y6
b5−H2O
b5
b6−H2O
b6
y7−NH3
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10
b9
b10−NH3
b10
b11−NH3
y11
b12
y12
b13

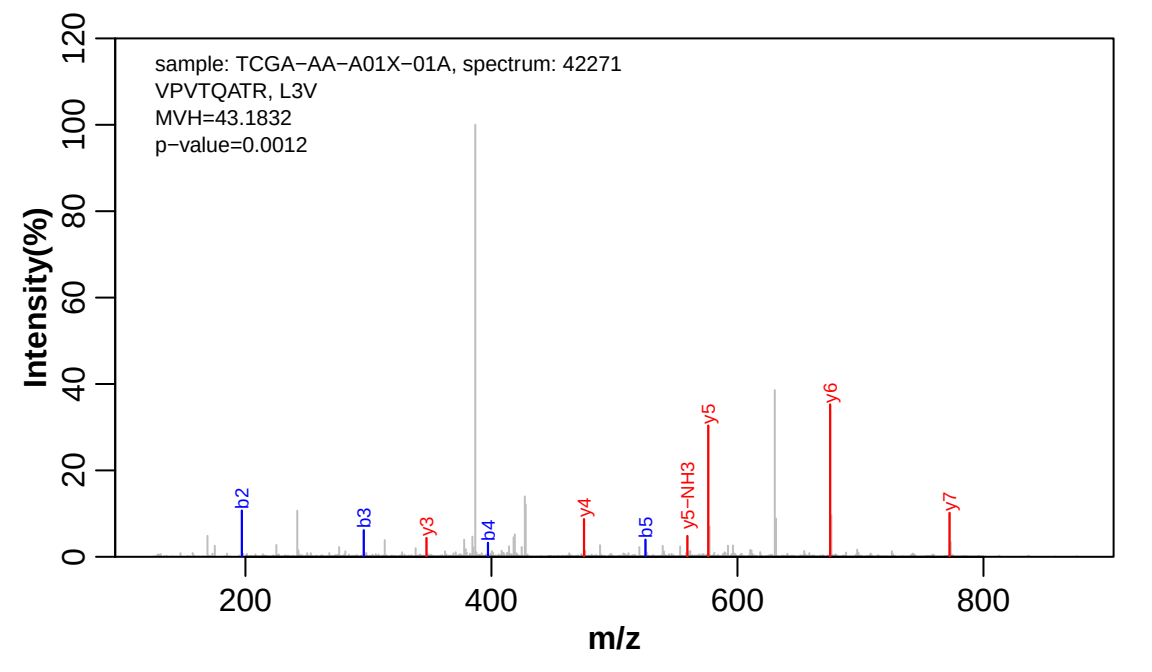

sample: TCGA−AA−A01X−01A, spectrum: 86591
TLNEADCATLPPALR, V10I
MVH=47.9849
p−value=0.0001
y5
y6
y7
b8
y9−H2O
b10−NH3
b10−H2O
b10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

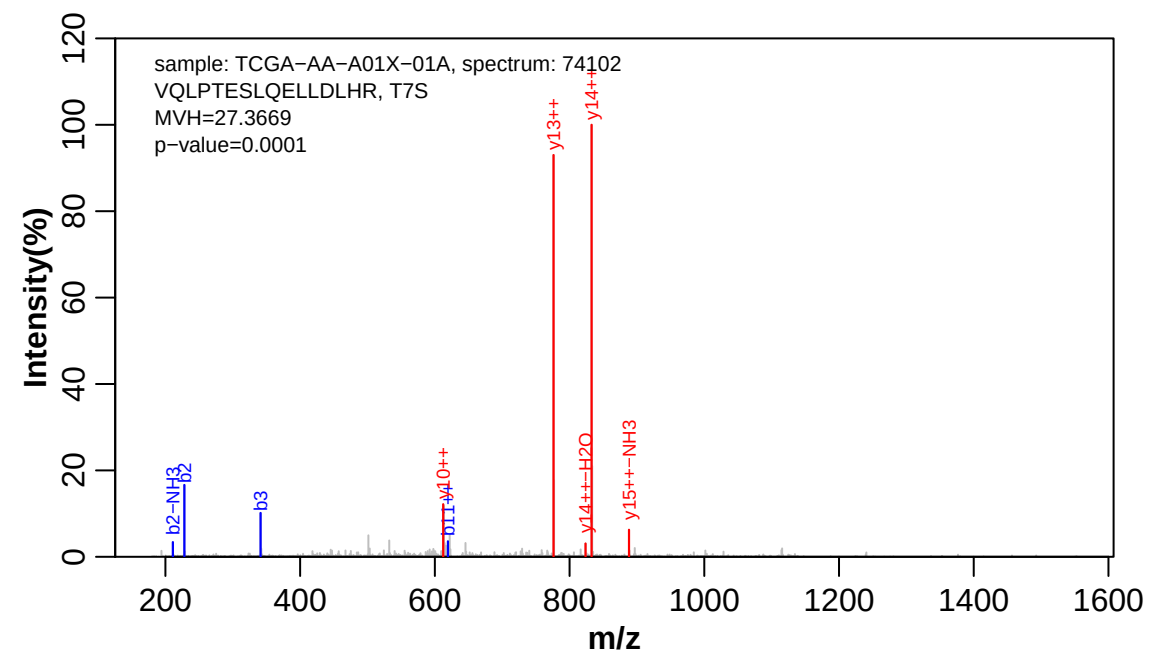

sample: TCGA−AA−A01X−01A, spectrum: 68606
TTPLEAASSGAR, T11A
MVH=35.4191
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b2
b3−H2O
y3
y4
y5
y6
b6
y7
b7−H2O
b7
y8
b8
b9
y9
y10

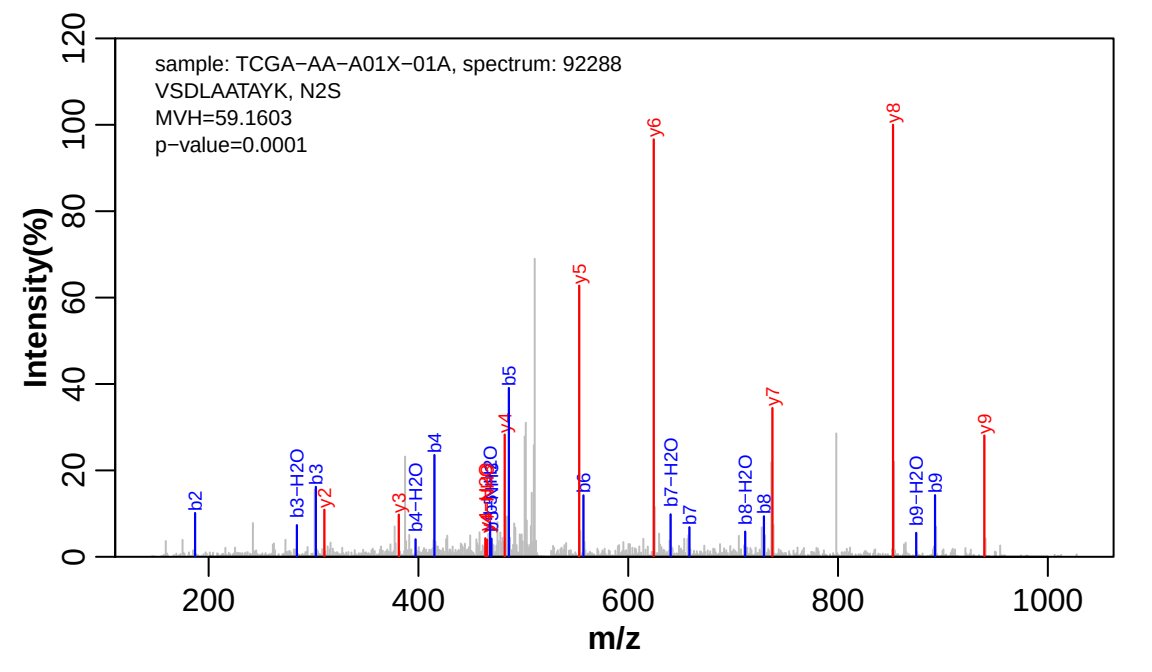

sample: TCGA−AA−A01X−01A, spectrum: 43834
TYGQVSGEALK, D2Y
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y9
b8−H2O
b8−NH3
y6
y7
y8
b2
b3
b4
b5
b6
b10−H2O
b10

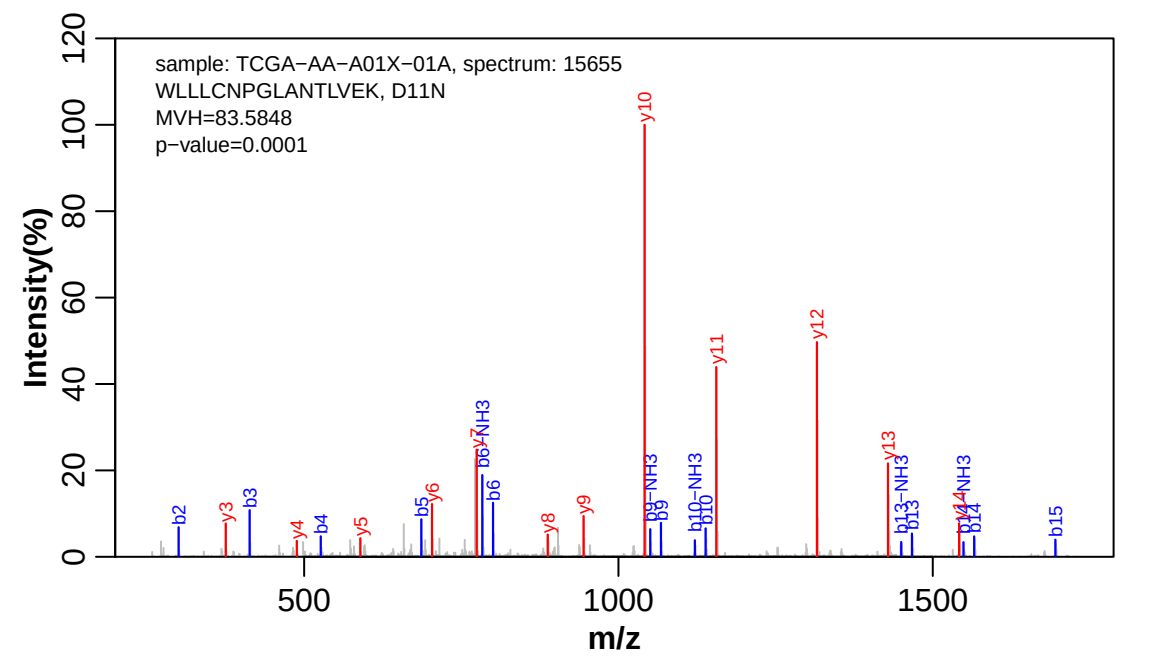

sample: TCGA−AA−A01X−01A, spectrum: 46548
VLLDGVQNLR, P9L
MVH=53.5488
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b3
y3
b4
b5
y4
b6
y5
y6
b7
y7
y8
b9

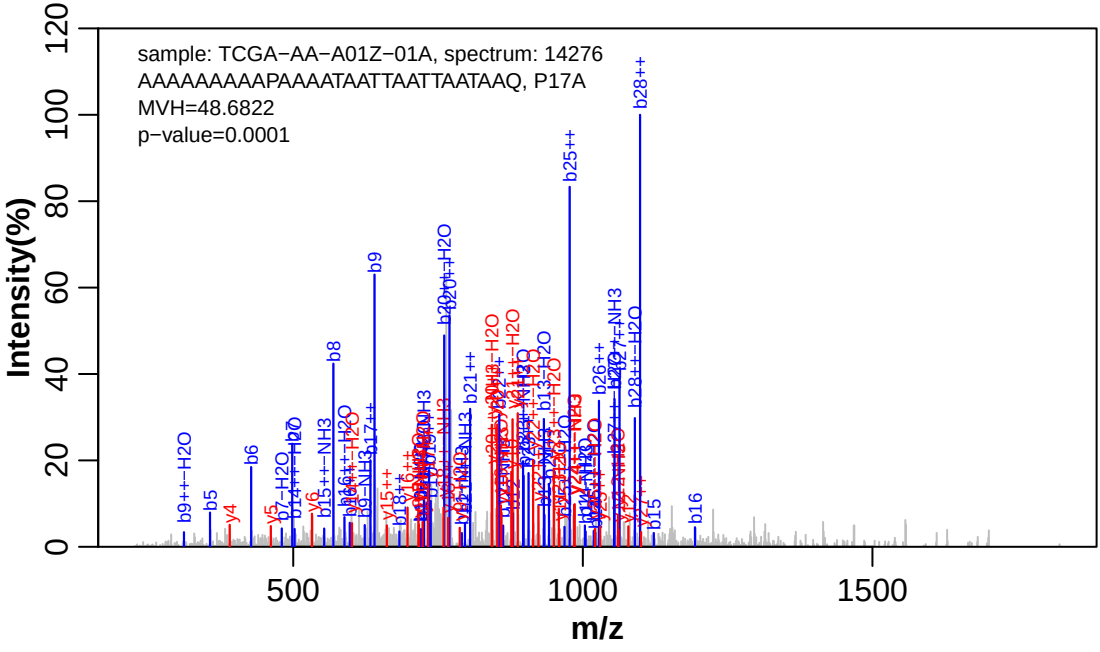

sample: TCGA−AA−A01X−01A, spectrum: 112012
VPSFETAEGLGAELK, T12A
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3−NH3
y3−H2O
b4
y4
b5−NH3
b5
y5
b6−NH3
b6−H2O
b6
b7−H2O
b7
y7
y8−H2O
b8−NH3
b8−H2O
b8
y8
b9−H2O
b9
y9
y10−H2O
b10−H2O
b10
y10
b11−H2O
b11
y11
b12−H2O
b12
b13−H2O
b13
y13−H2O
y13
b14

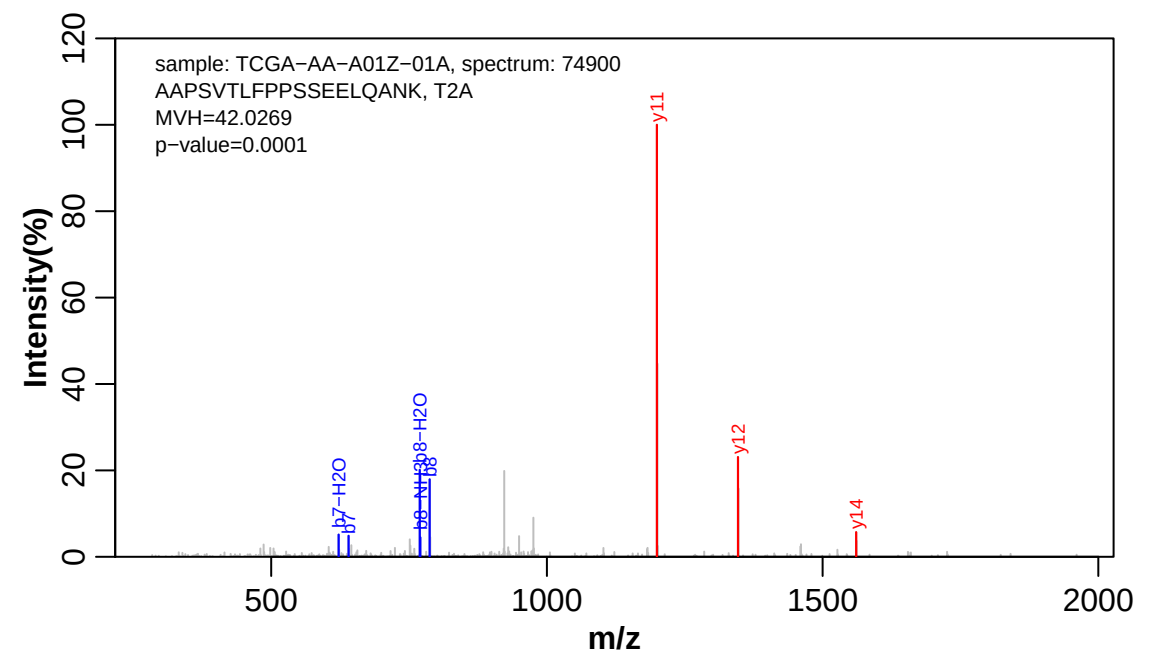

sample: TCGA−AA−A01X−01A, spectrum: 42271
VPVTQATR, L3V
MVH=43.1832
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4
y4
b5
y5−NH3
y5
y6
y7

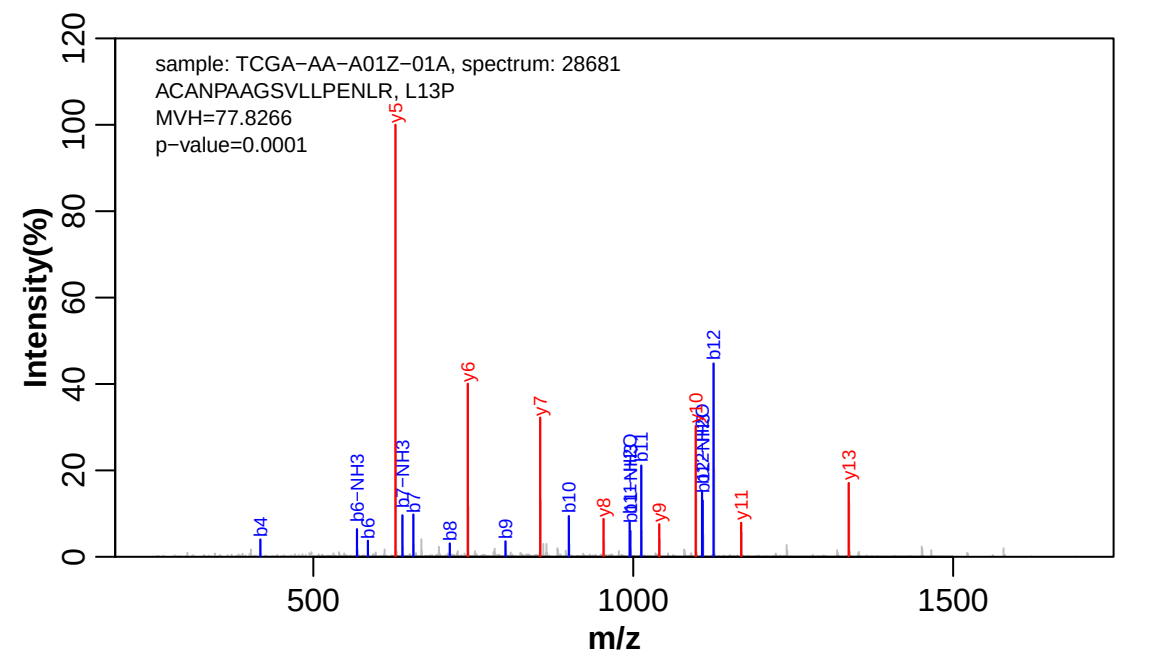

sample: TCGA−AA−A01X−01A, spectrum: 74102
VQLPTESLQELLDLHR, T7S
MVH=27.3669
p−value=0.0001
y13++
y14++
b2−NH3
b2
b3
b11+y10++
y14++−H2O
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

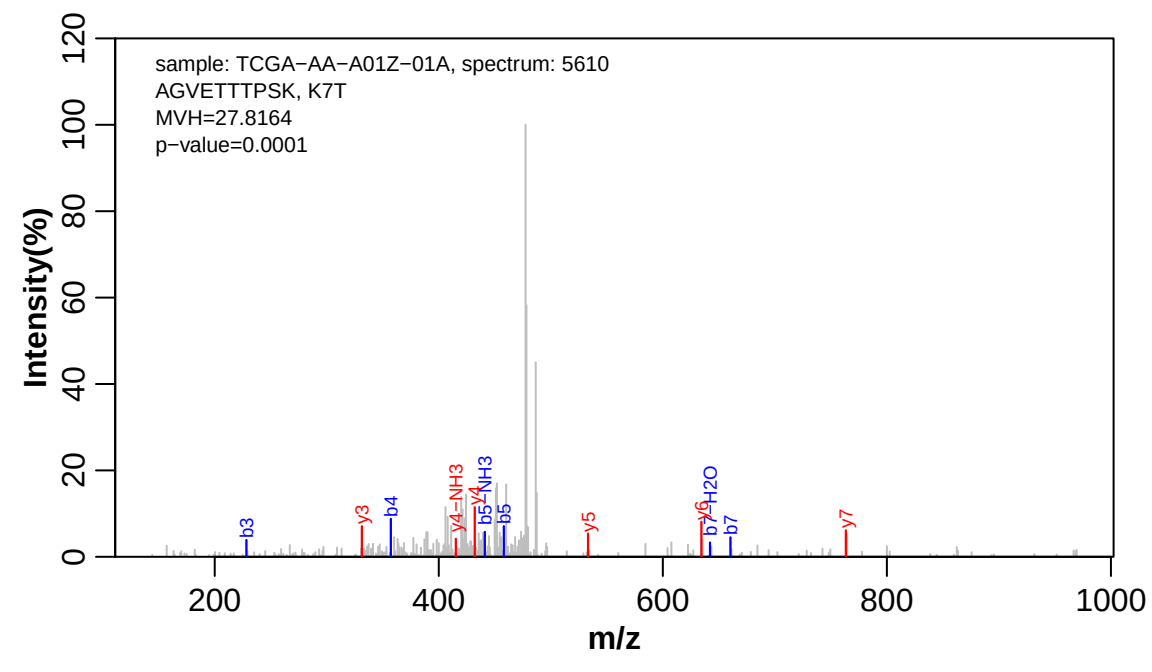

sample: TCGA−AA−A01X−01A, spectrum: 92288
VSDLAATAYK, N2S
MVH=59.1603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4−H2O
b4
b5
y4
y5
b6
b7−H2O
b7
y6
b8−H2O
b8
y7
y8
b9−H2O
b9
y9

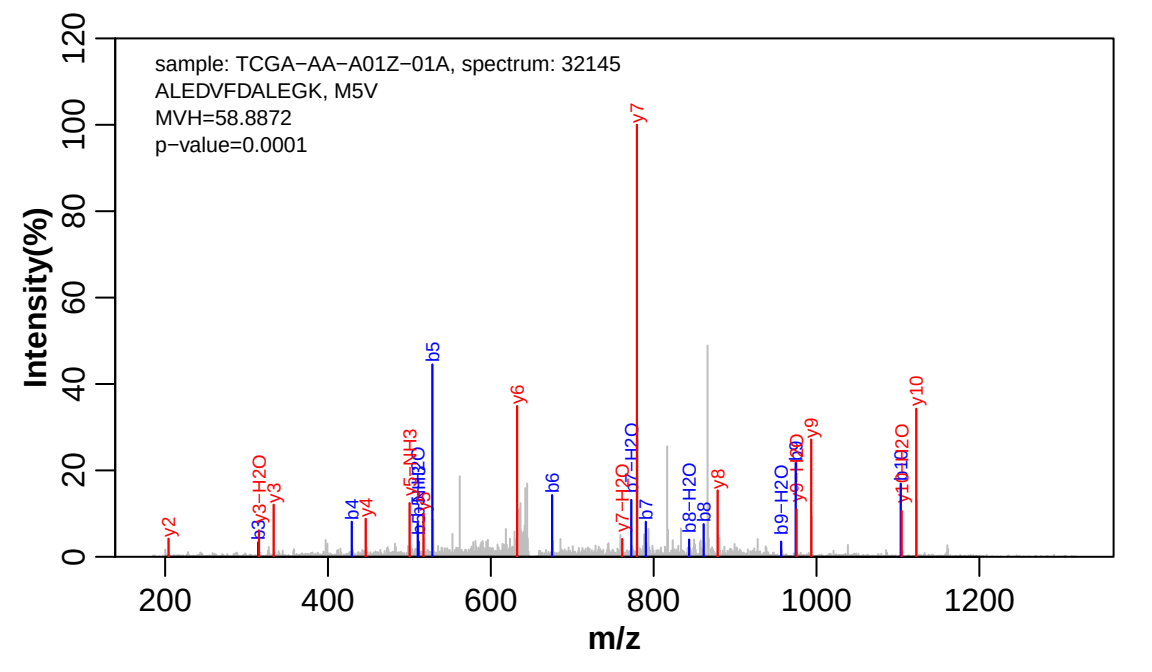

sample: TCGA−AA−A01X−01A, spectrum: 15655
WLLLCNPGLANTLVEK, D11N
MVH=83.5848
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
y4
b4
y5
b5
y6
b6
y7
b6−NH3
y8
y9
b9
b9−NH3
y10
b10
b10−NH3
y11
y12
b13
b13−NH3
y13
b14
y14
y14−NH3
b15

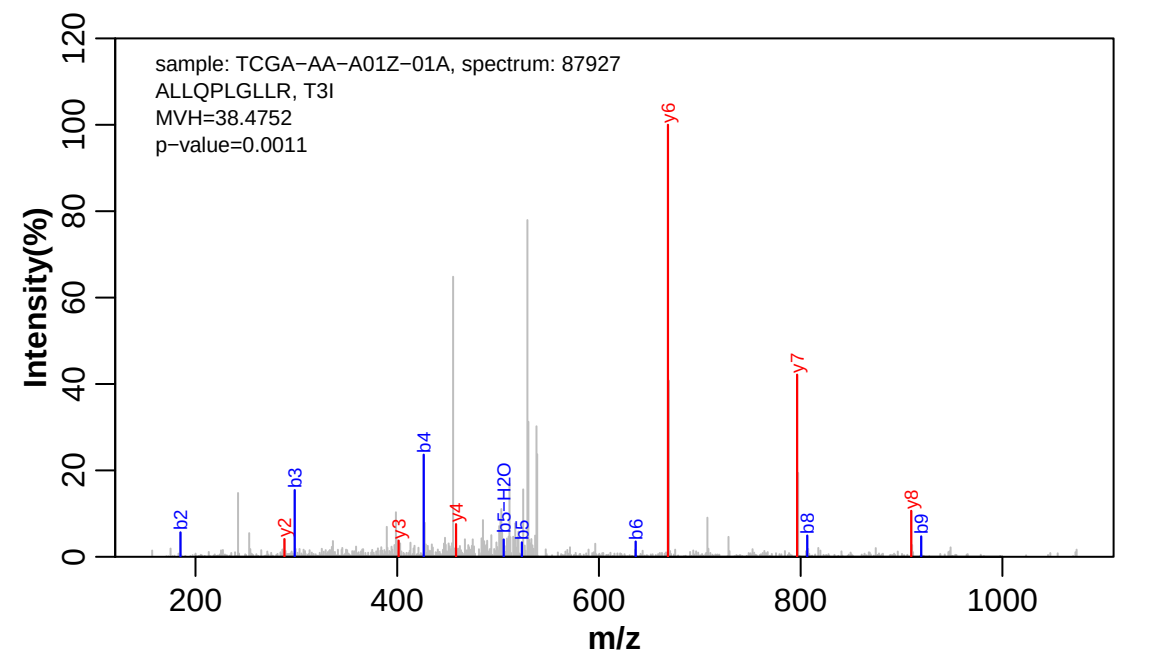

sample: TCGA−AA−A01Z−01A, spectrum: 14276
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=48.6822
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b9
b8
b6
b5
y4
b16
b15
b21++
b26++
b30++−H2O
b20++−H2O
b9++−H2O
b5++−H2O
b15++−NH3
b28++−H2O
b27++−NH3
b9−NH3
b17++
y15++
b18++
y6
y5
b7−H2O
b14++−H2O
b16++−H2O
b8−NH3
b7
b14++
b16++
b8++
b9++
b10++
b11++
b12++
b13++
b14++
b15++
b16++
b17++
b18++
b19++
b20++
b21++
b22++
b23++
b24++
b25++
b26++
b27++
b28++
b29++
b30++
y1
y2
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y14
y15
y16
y17
y18
y19
y20
y21
y22
y23
y24
y25
y26
y27
y28
y29
y30
−H2O
−NH3

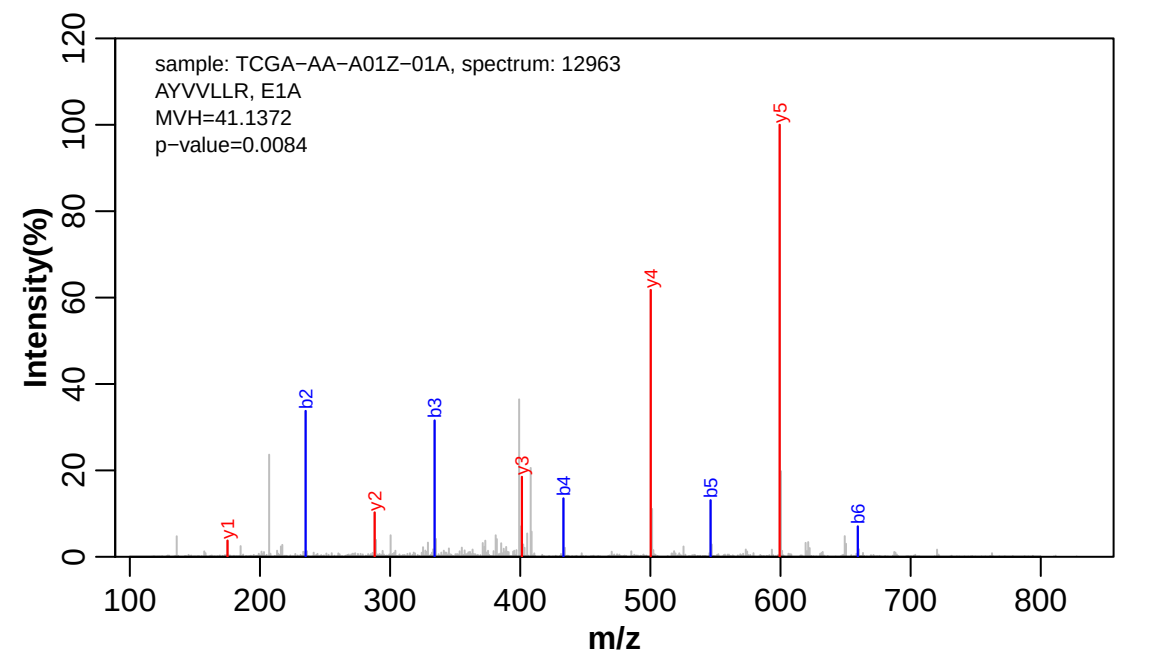

sample: TCGA−AA−A01Z−01A, spectrum: 74900
AAPSVTLFPPSSEELQANK, T2A
MVH=42.0269
p−value=0.0001
Intensity(%)
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8
b8−H2O
0
20
40
60
80
100
120
500
1000
1500
2000

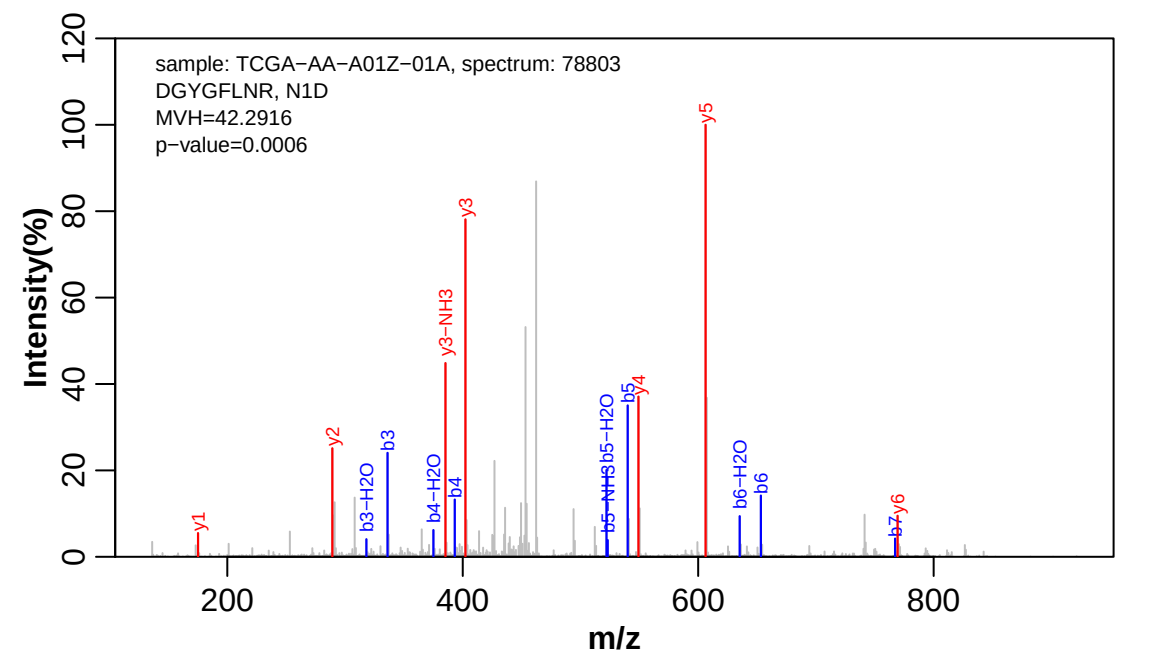

sample: TCGA−AA−A01Z−01A, spectrum: 28681
ACANPAAGSVLLPENLR, L13P
MVH=77.8266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
b6−NH3
b6
b7−NH3
b7
b8
b9
b10
y8
y9
y5
y6
y7
y10
y11
y13
b12

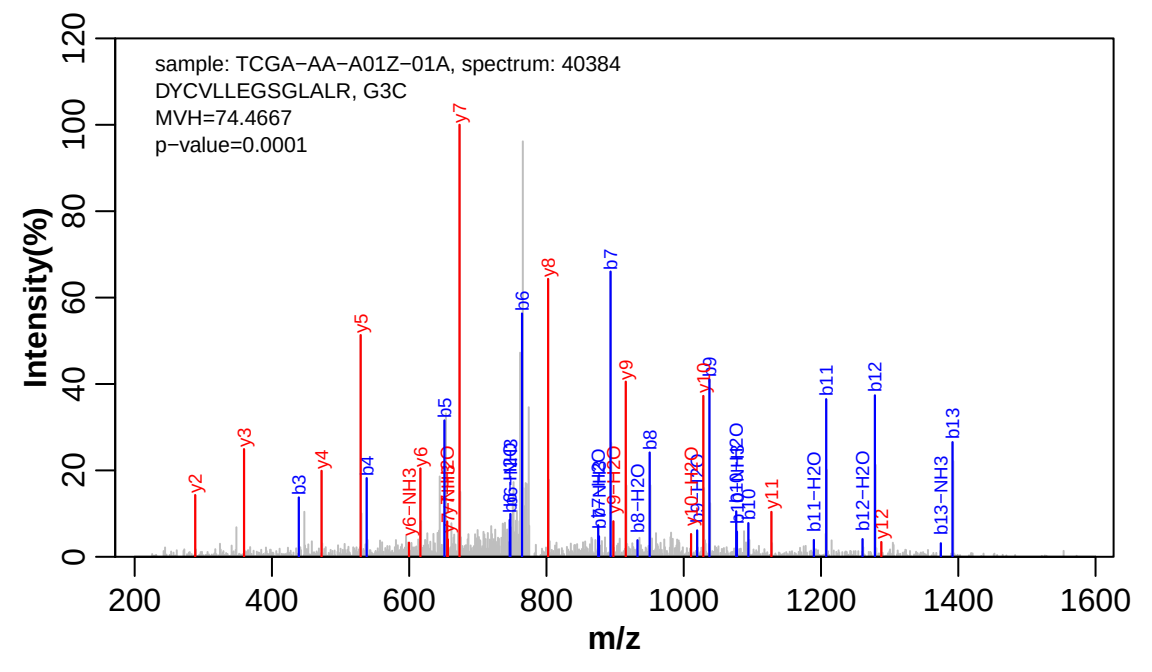

sample: TCGA−AA−A01Z−01A, spectrum: 5610
AGVETTTPSK, K7T
MVH=27.8164
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4−NH3
y4
b5−NH3
b5
y5
b7−H2O
y6
b7
y7

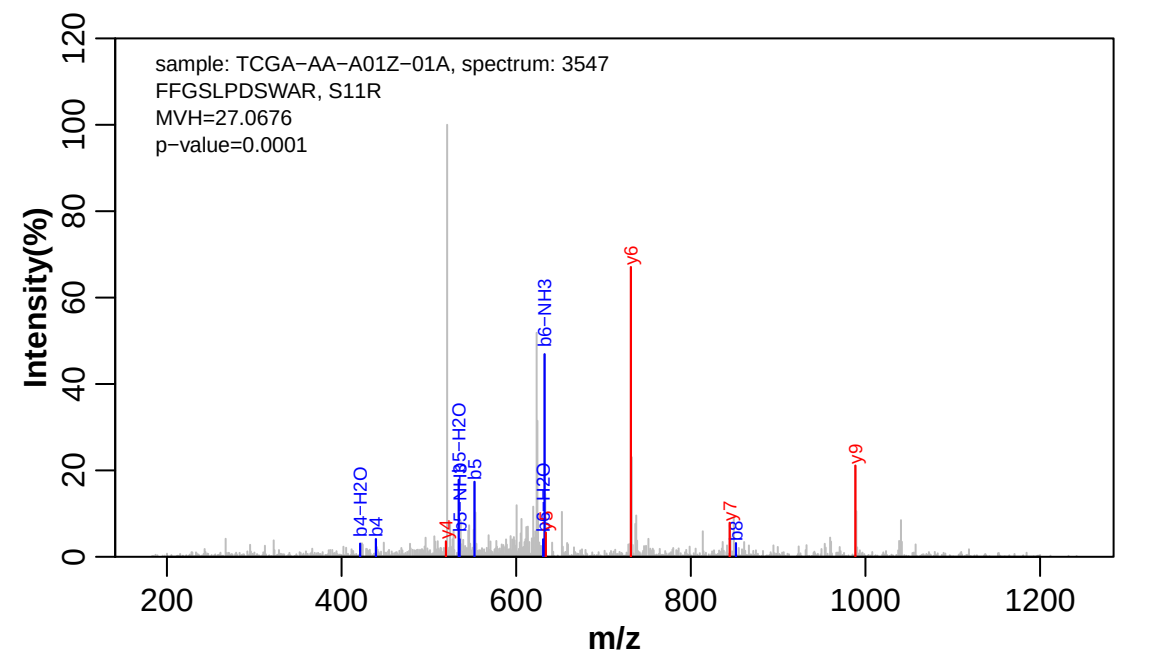

sample: TCGA−AA−A01Z−01A, spectrum: 32145
ALEDVFDALEGK, M5V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
b5
y6
b6
y7
y7−H2O
b7−H2O
b7
b8−H2O
b8
y8
b9−H2O
y9
y10
y10−H2O

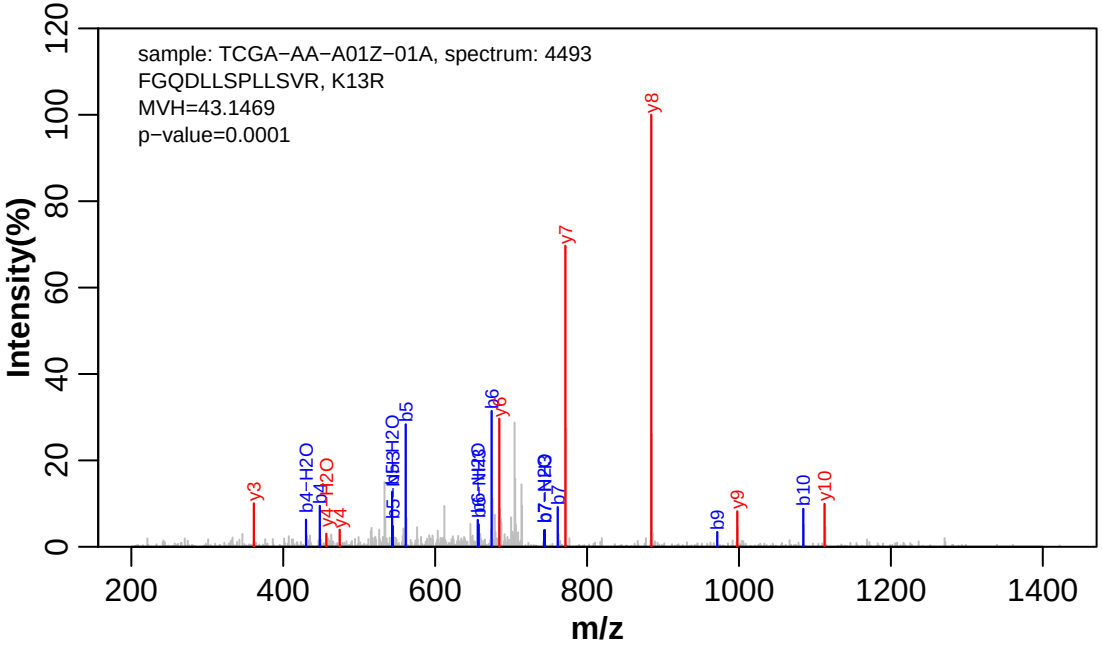

sample: TCGA−AA−A01Z−01A, spectrum: 87927
ALLQPLGLLR, T3I
MVH=38.4752
p−value=0.0011
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
b3
y3
b4
y4
b5−H2O
b5
b6
y6
y7
b8
y8
b9

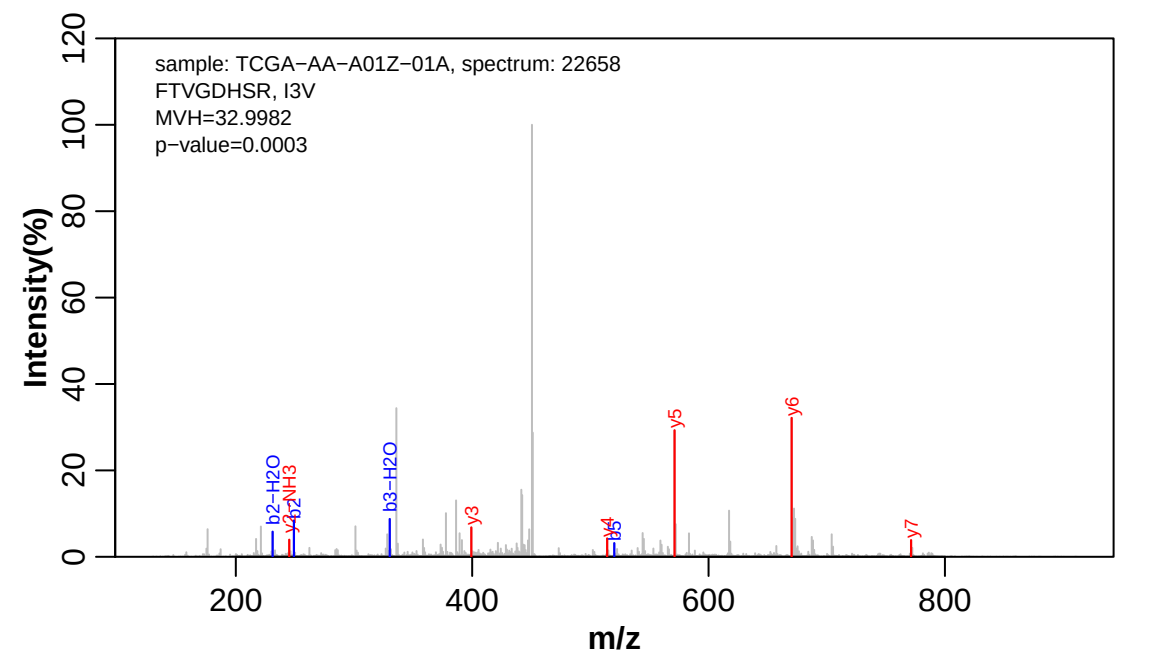

sample: TCGA−AA−A01Z−01A, spectrum: 12963
AYVVLLR, E1A
MVH=41.1372
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

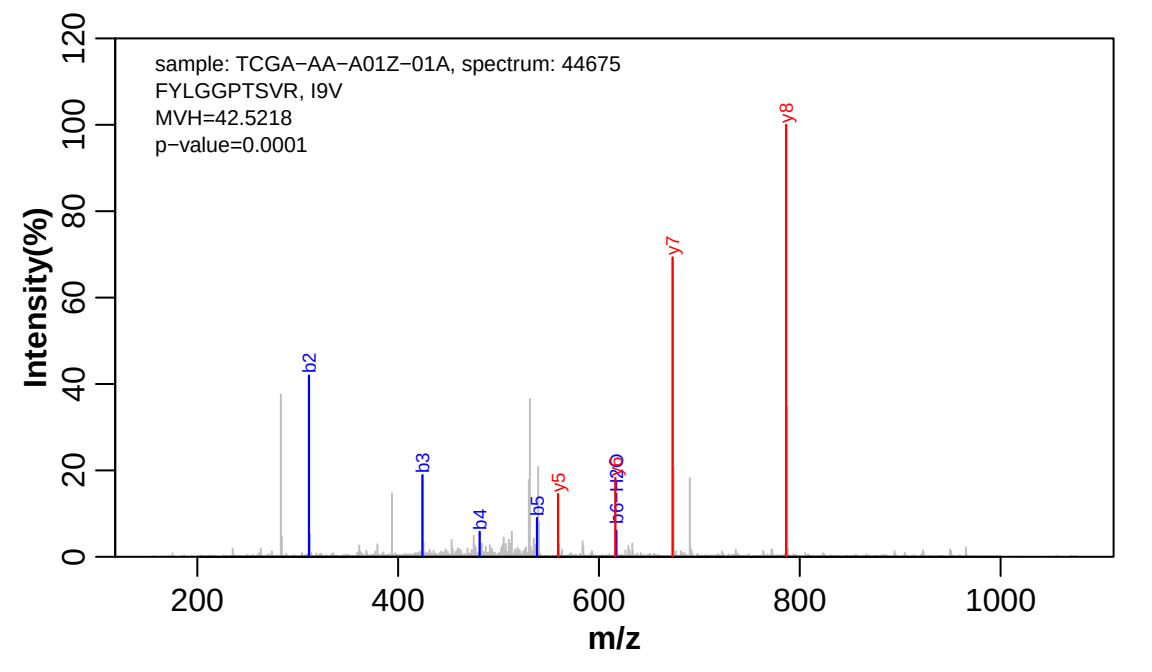

sample: TCGA−AA−A01Z−01A, spectrum: 78803
DGYGFLNR, N1D
MVH=42.2916
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

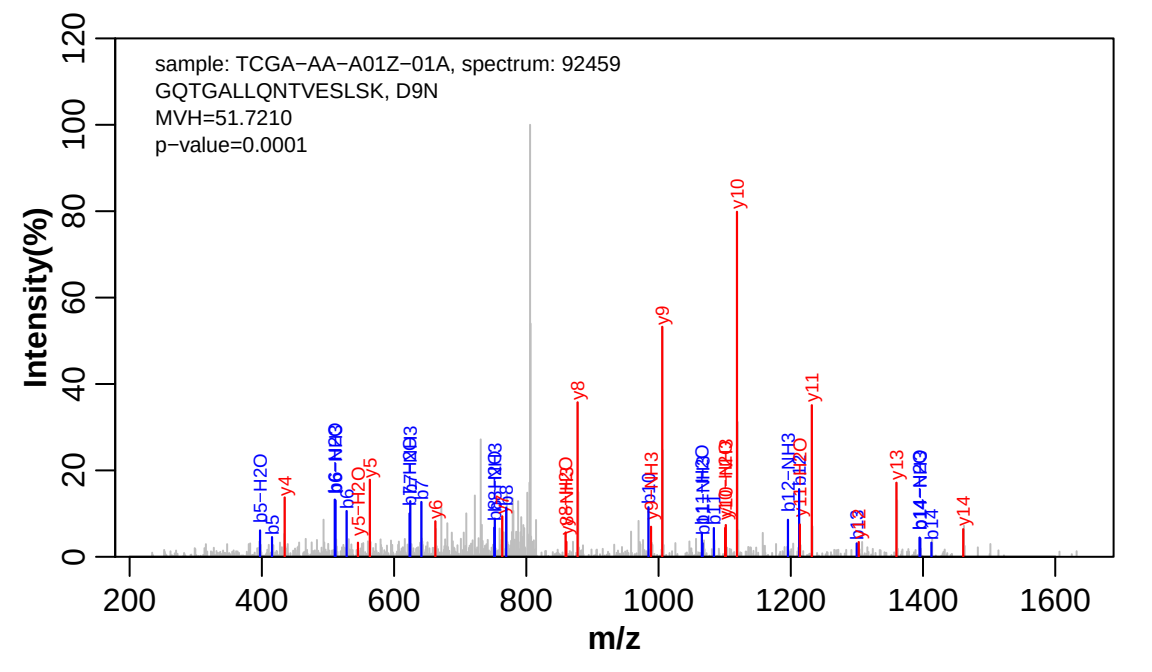

sample: TCGA−AA−A01Z−01A, spectrum: 40384
DYCVLLEGSGLALR, G3C
MVH=74.4667
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b3
y4
b4
y5
y6
y6−NH3
b5
y7
y7−H2O
b6
b6−NH3
b6−H2O
y8
b7
b7−NH3
b7−H2O
y9
y9−H2O
b8
b8−H2O
y10
y10−H2O
b9
b9−NH3
b9−H2O
b10
y11
b11
b11−H2O
b12
b12−H2O
y12
b13
b13−NH3

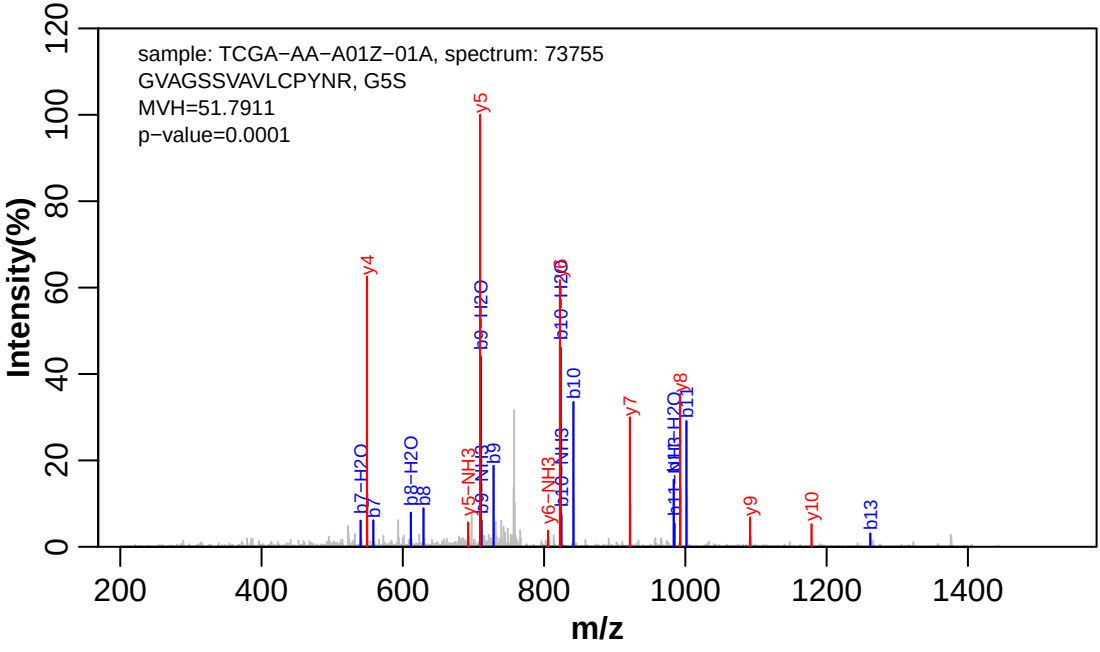

sample: TCGA−AA−A01Z−01A, spectrum: 3547
FFGSLPDSWAR, S11R
MVH=27.0676
p−value=0.0001
Intensity(%)
m/z
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
b6−H2O
y6
y8
y7
y9

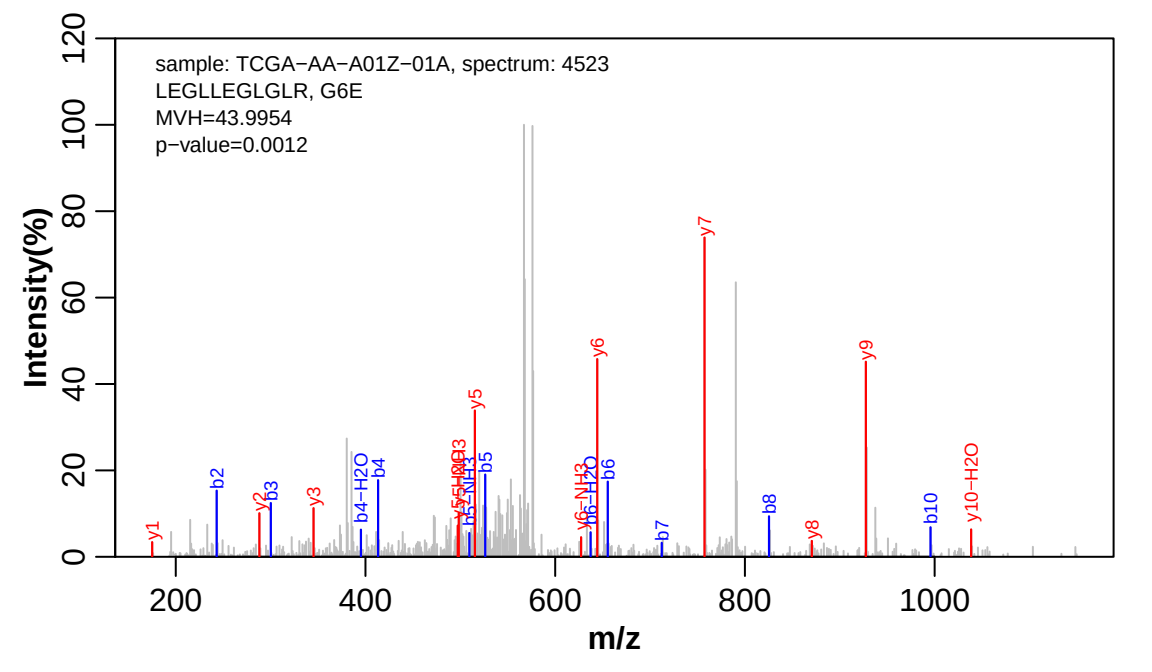

sample: TCGA−AA−A01Z−01A, spectrum: 4493
FGQDLLSPLLSVR, K13R
MVH=43.1469
p−value=0.0001
Intensity(%)
m/z
y8
y7
y6
b5
y3
y4
y9
b10
y10
b9

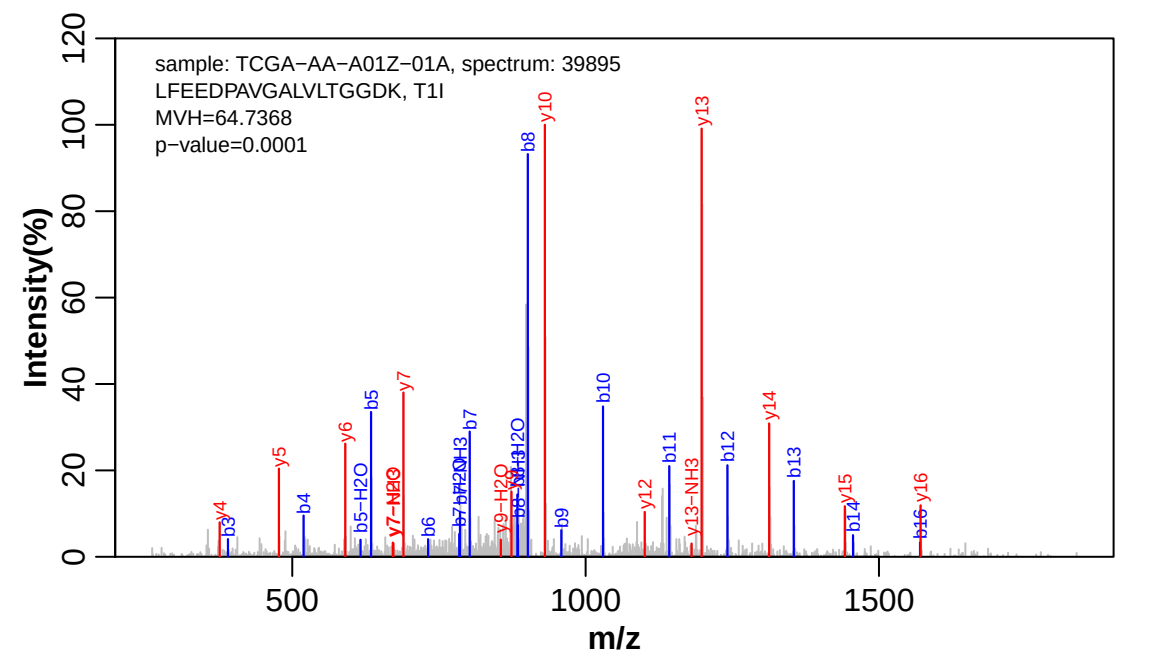

sample: TCGA−AA−A01Z−01A, spectrum: 22658
FTVGDHSR, I3V
MVH=32.9982
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2−H2O
b2−NH3
y2
b3−H2O
y3
y4
b5
y5
y6
y7

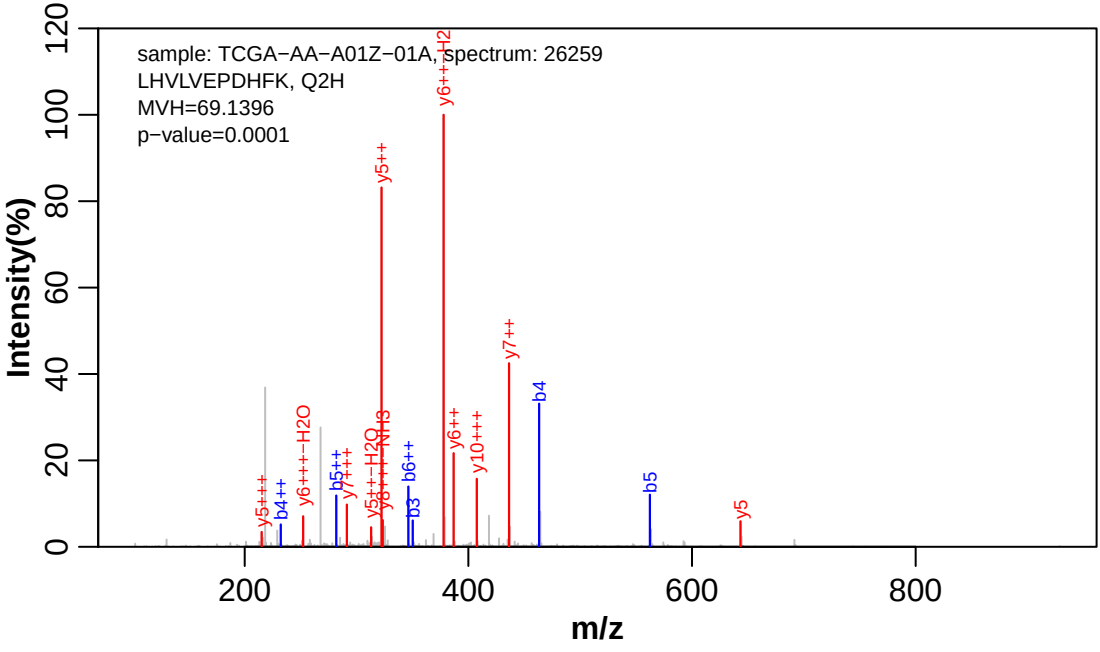

sample: TCGA−AA−A01Z−01A, spectrum: 44675
FYLGGPTSVR, I9V
MVH=42.5218
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

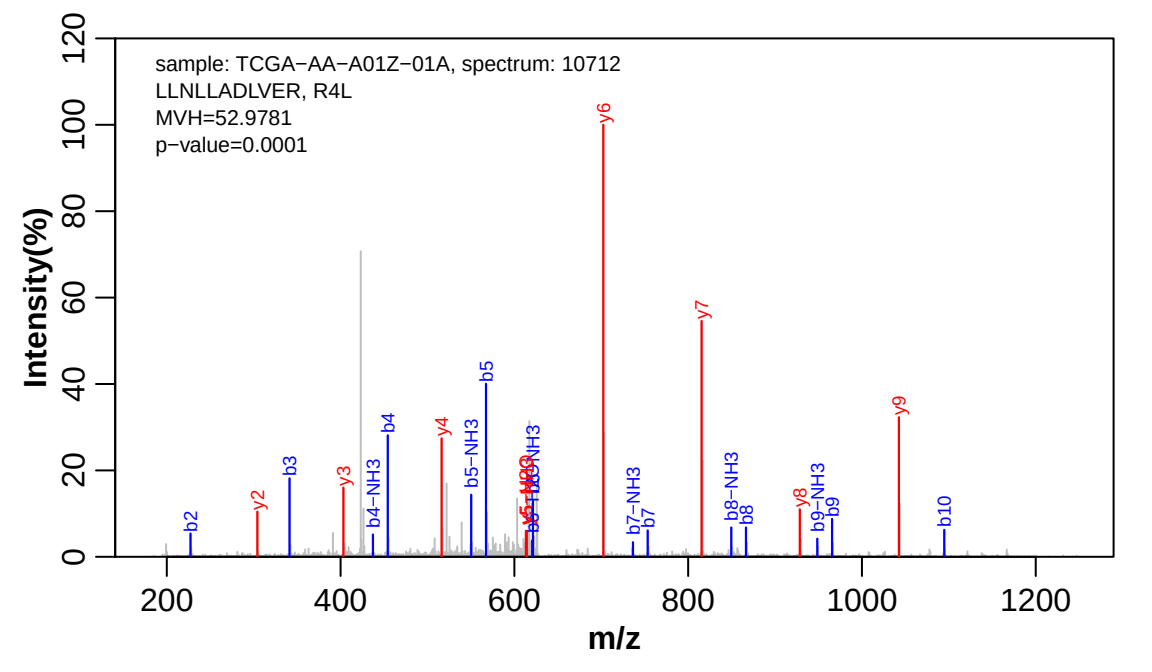

sample: TCGA−AA−A01Z−01A, spectrum: 92459
GQTGALLQNTVESLSK, D9N
MVH=51.7210
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y4
y5
y6
b5−H2O
b5
b6
y5−H2O
b7
b12−NH3
b14−NH3

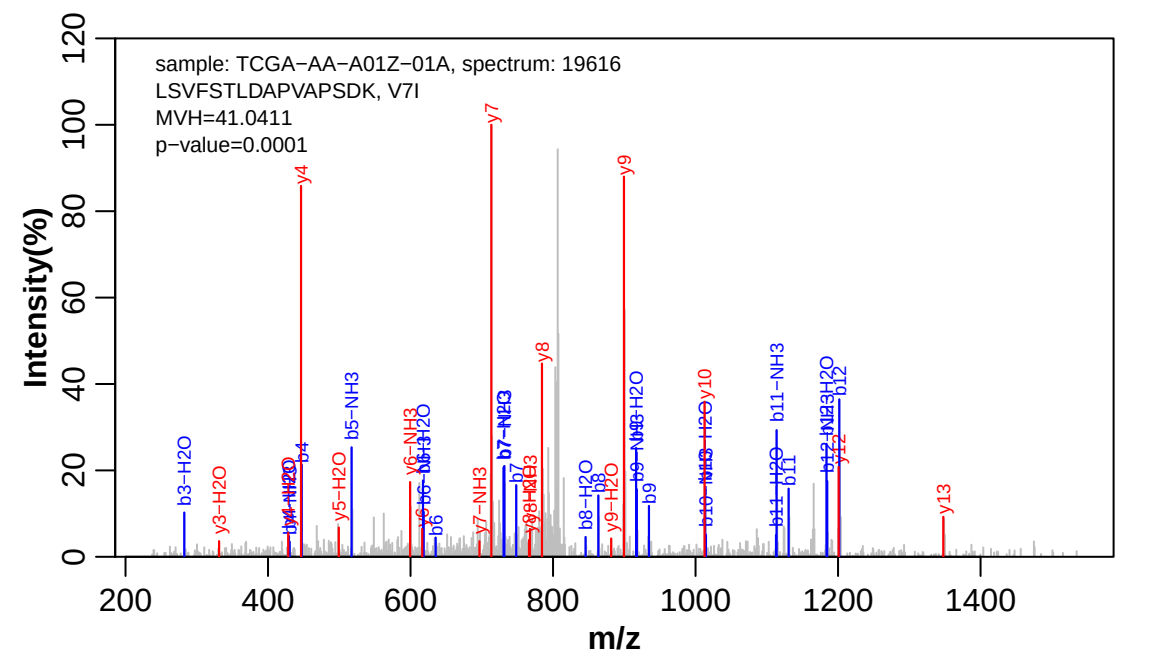

sample: TCGA−AA−A01Z−01A, spectrum: 73755
GVAGSSVAVLCPYNR, G5S
MVH=51.7911
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y7
y8
b11
b11−NH3−H2O
y9
y10
b13
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3

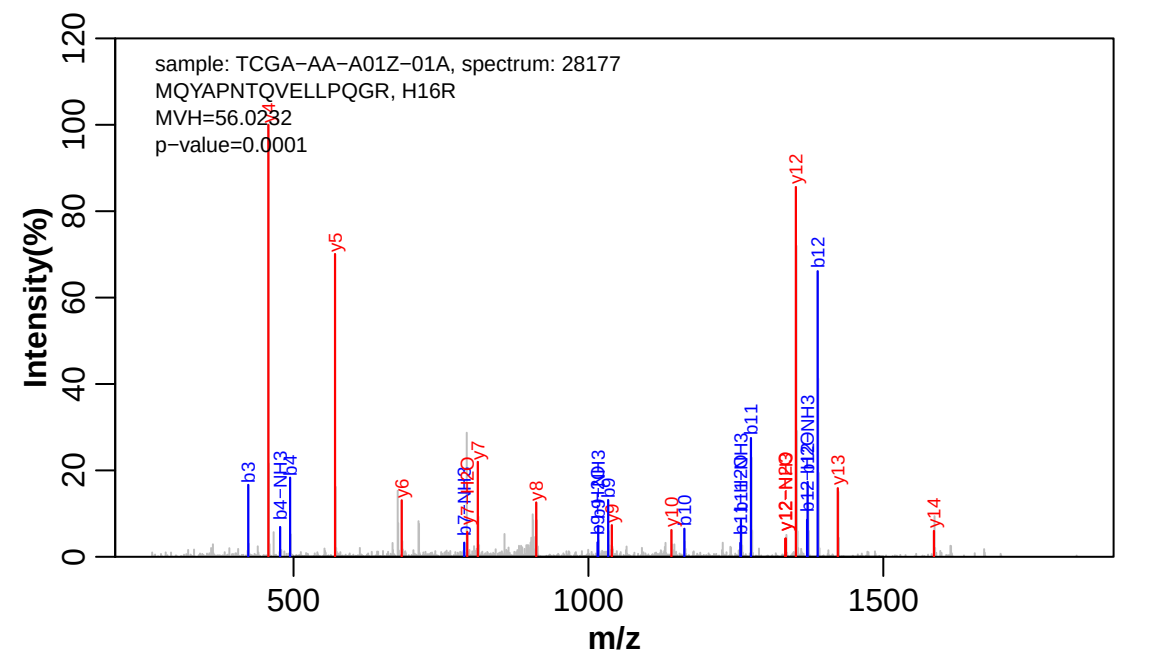

sample: TCGA−AA−A01Z−01A, spectrum: 4523
LEGLLEGLGLR, G6E
MVH=43.9954
p−value=0.0012
Intensity(%)
m/z
y1
b2
y2
b3
y3
b4−H2O
b4
y5
b5
y6
b6
b7
y7
b8
y8
y9
b10
y10−H2O

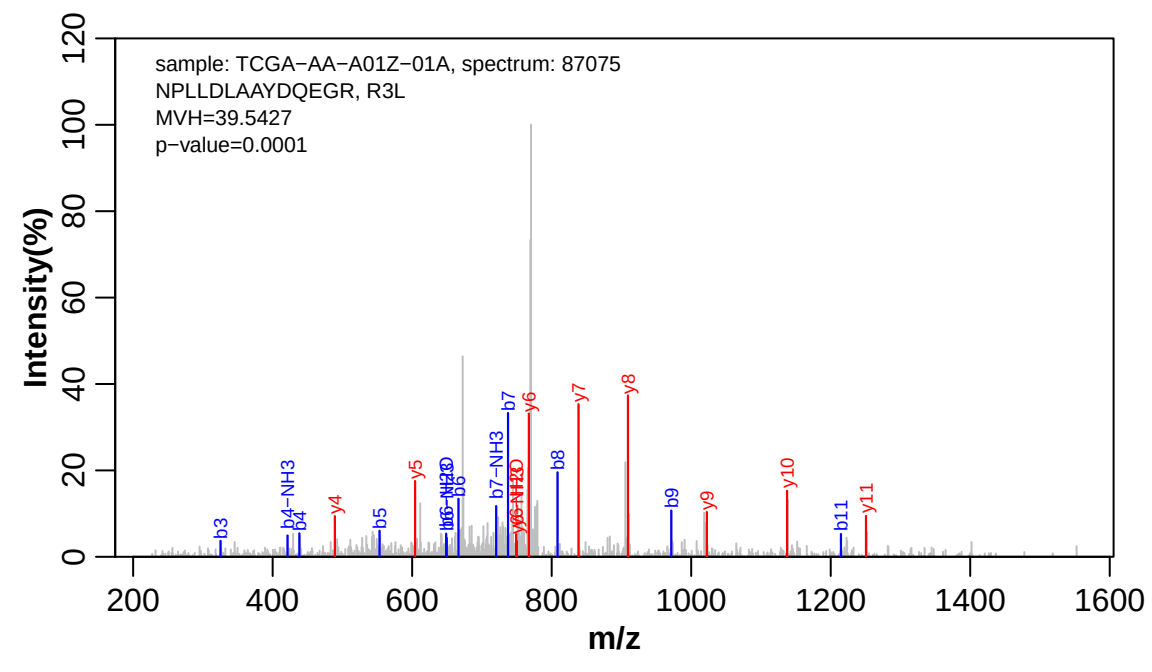

sample: TCGA−AA−A01Z−01A, spectrum: 39895
LFEEDPAVGALVLTGGDK, T1I
MVH=64.7368
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
y7
y6
b5
y5
b4
b6
b7
b10
b11
b12
y14
b13
y15
b14
b16
y16
y12
b9
y4
b3

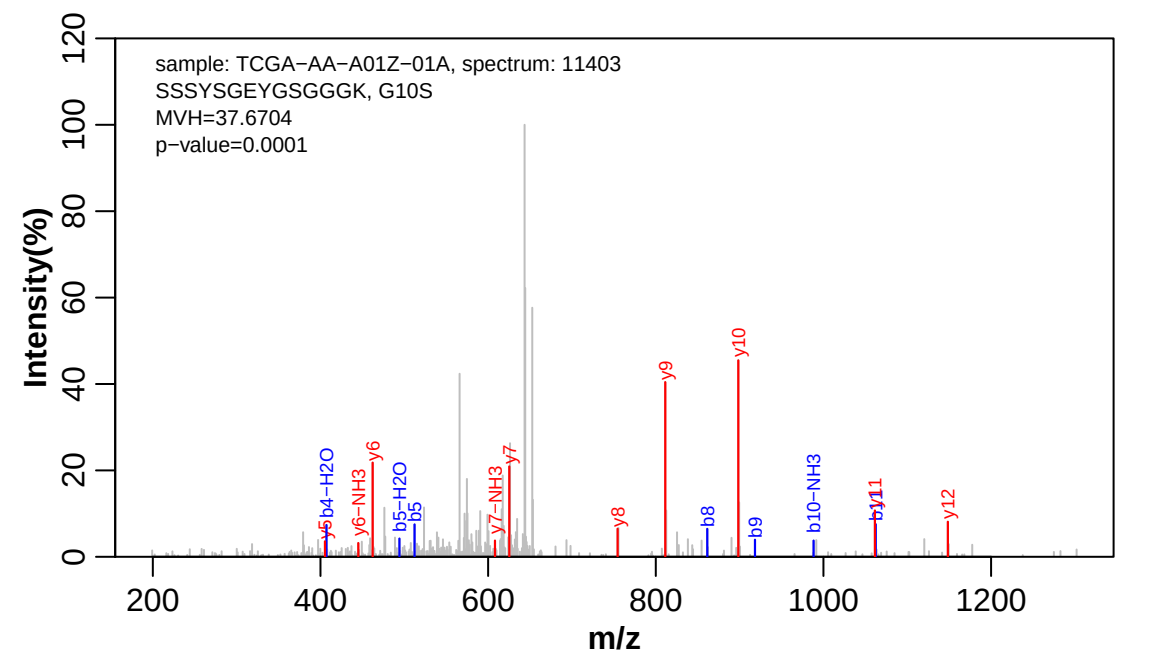

sample: TCGA−AA−A01Z−01A, spectrum: 26259
LHVLVEPDHFK, Q2H
MVH=69.1396
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y6+++−H2
y6++
y5++
y7++
b4
y5+++
b4++
y6+++−H2O
y5++−H2O
y6++−NH3
b3
b5++
y7+++
b6++
y10+++
b5
y5

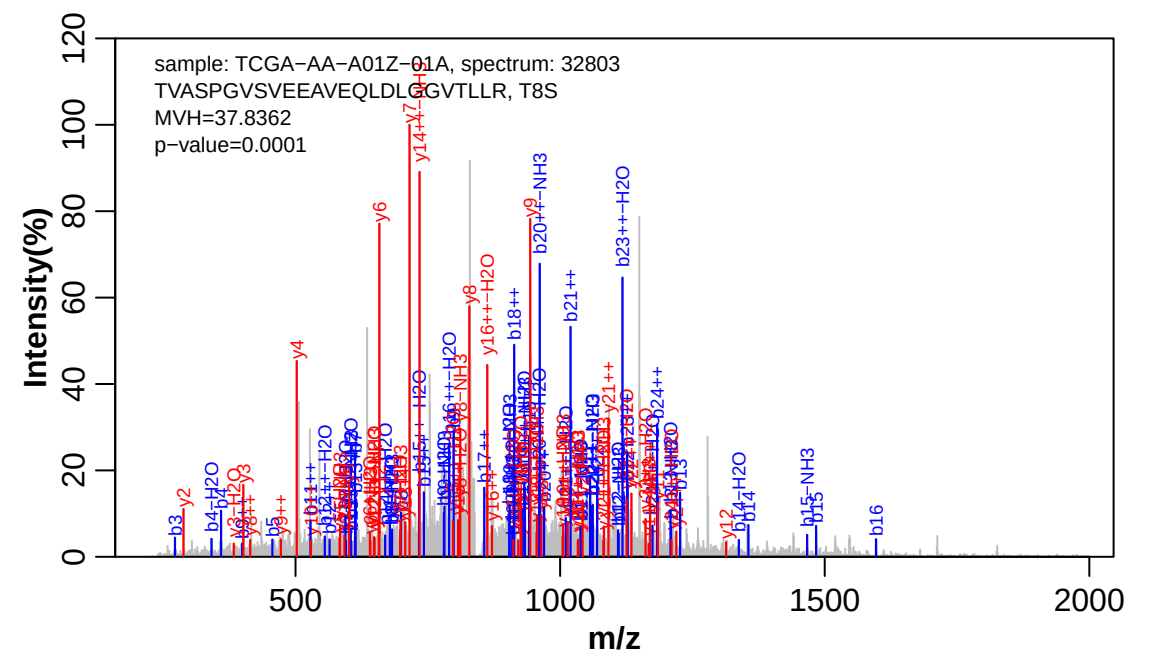

sample: TCGA−AA−A01Z−01A, spectrum: 10712
LLNLLADLVER, R4L
MVH=52.9781
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b7−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

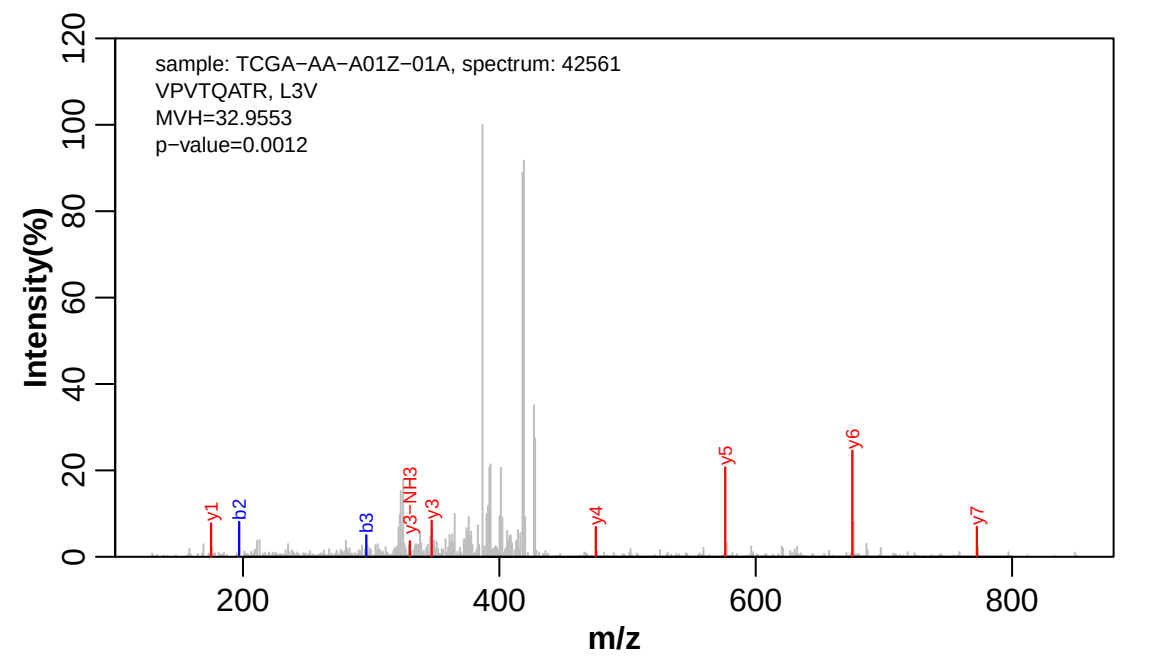

sample: TCGA−AA−A01Z−01A, spectrum: 19616
LSVFSTLDAPVAPSDK, V7I
MVH=41.0411
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y4
y9
y8
b5−NH3
b3−H2O
y3−H2O
y5−H2O
y7−NH3
b8−H2O
y9−H2O
y10
b11−NH3
b11−H2O
y13

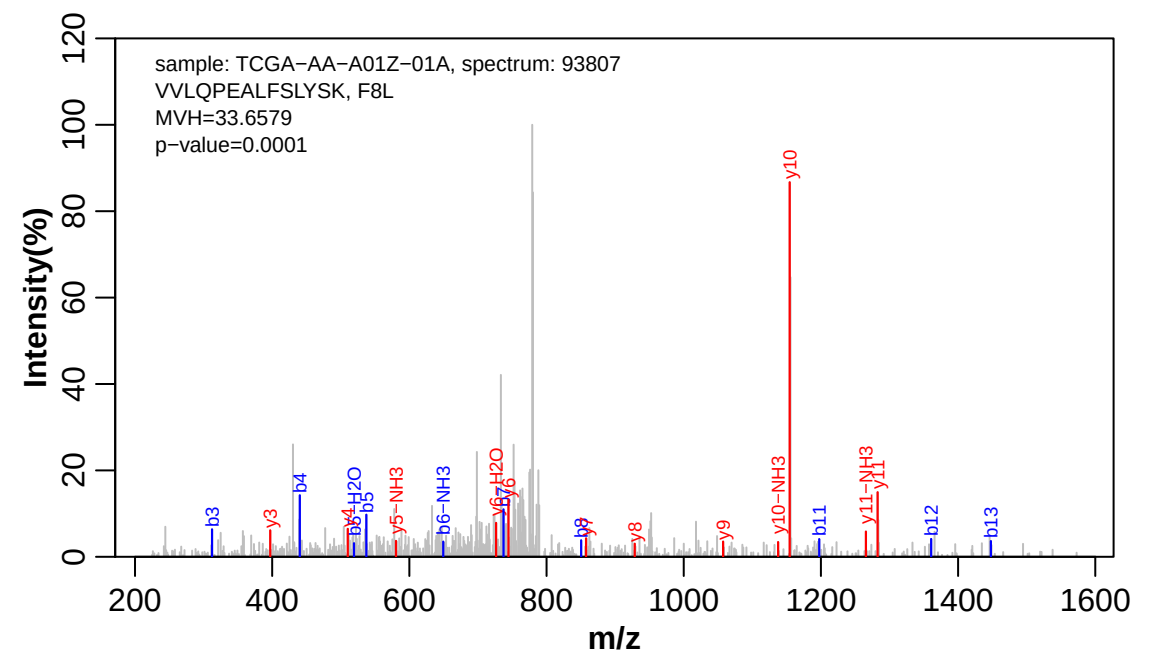

sample: TCGA−AA−A01Z−01A, spectrum: 28177
MQYAPNTQVELLPQGR, H16R
MVH=56.0232
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4
b4−NH3
y4
y5
y6
y7
y7−NH3
y8
b9
b9−H2O
b9−NH3
y9
y10
b10
b11
b11−H2O
b11−NH3
y12
y12−NH3
b12
b12−H2O
b12−NH3
y13
y14

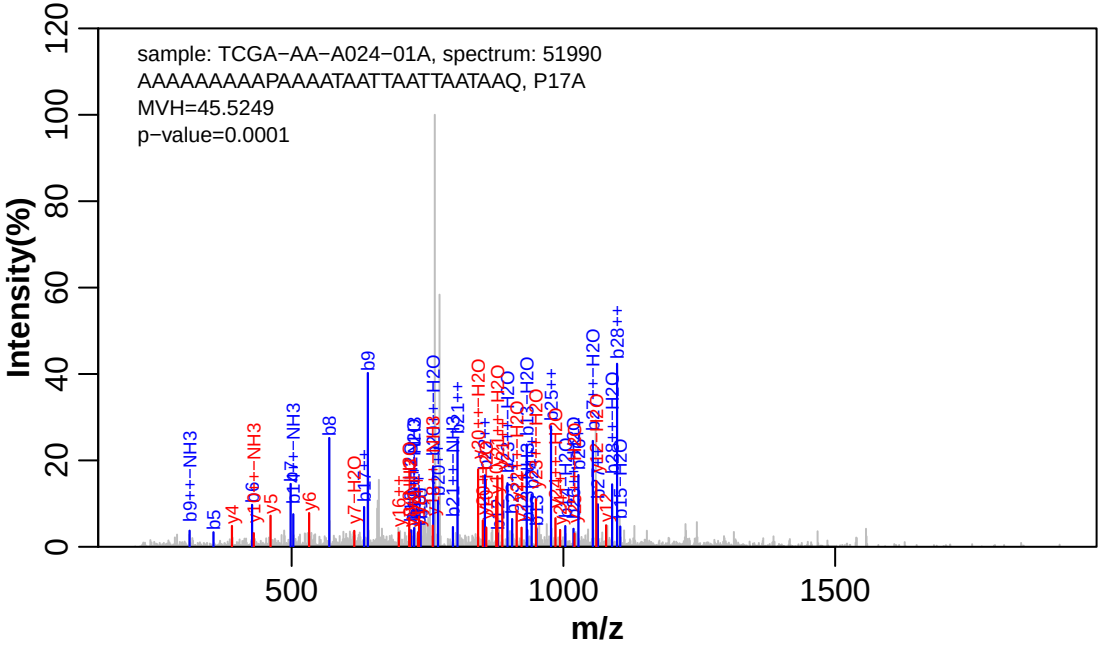

sample: TCGA−AA−A01Z−01A, spectrum: 87075
NPLLDLAAYDQEGR, R3L
MVH=39.5427
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4−NH3
b4
y4
b5
y5
b7−NH3
b7
y6
y7
y8
b8
b9
y9
y10
b11
y11

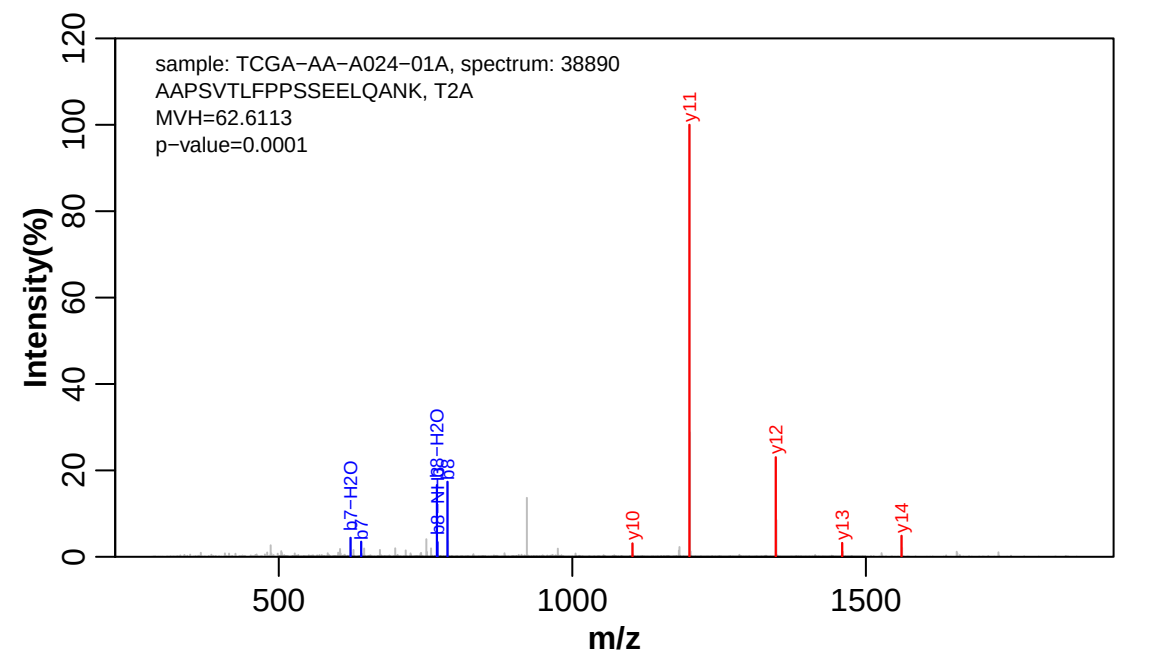

sample: TCGA−AA−A01Z−01A, spectrum: 11403
SSSYSGEYGSGGGK, G10S
MVH=37.6704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y5
b4−H2O
y6−NH3
y6
b5−H2O
b5
y7−NH3
y7
y8
y9
y10
b8
b9
b10−NH3
b11
y11
y12

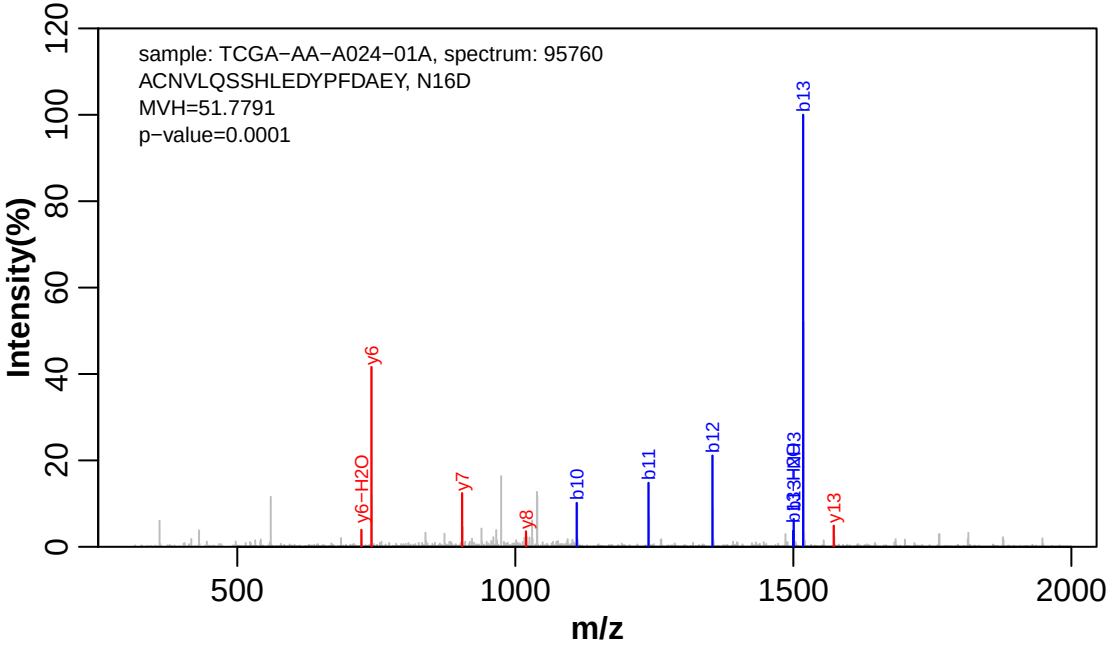

sample: TCGA−AA−A01Z−01A, spectrum: 32803
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=37.8362
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

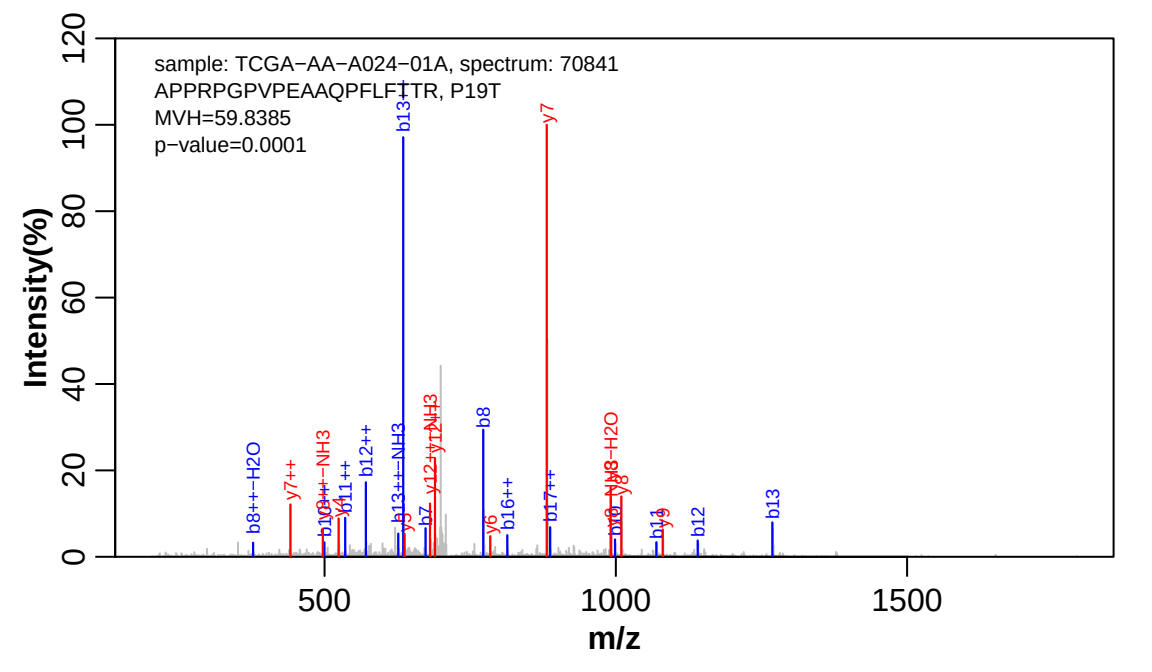

sample: TCGA−AA−A01Z−01A, spectrum: 42561
VPVTQATR, L3V
MVH=32.9553
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3−NH3
y3
y4
y5
y6
y7

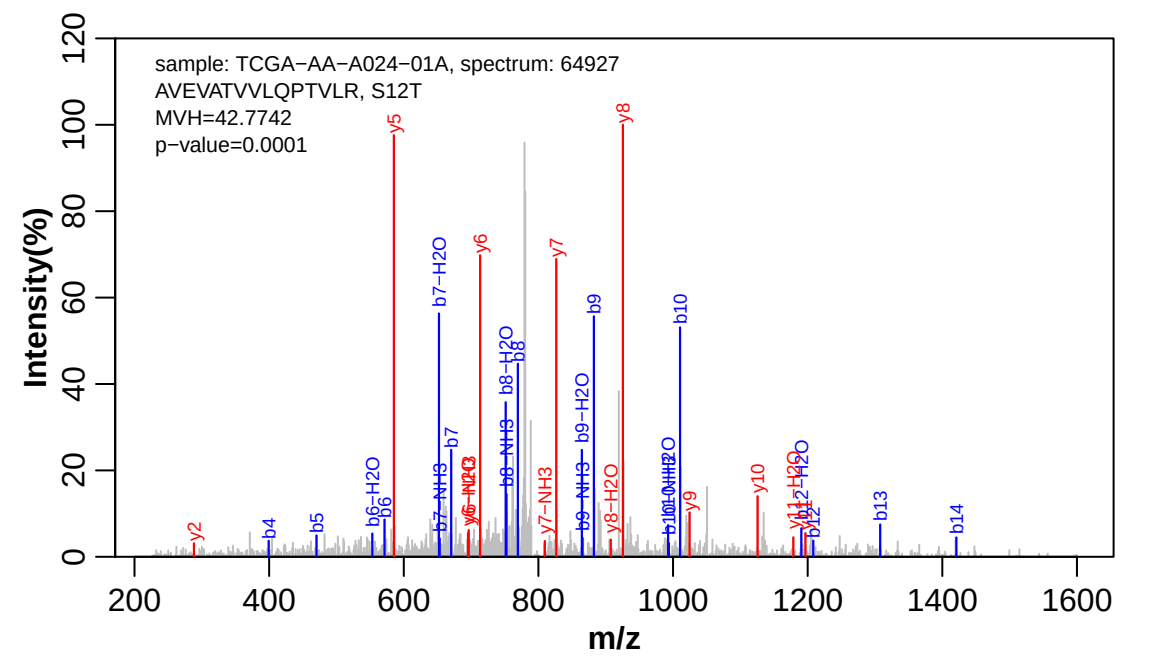

sample: TCGA−AA−A01Z−01A, spectrum: 93807
VVLQPEALFSLYSK, F8L
MVH=33.6579
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y4−H2O
b5
y5−NH3
b6−NH3
y7−H2O
y6
b9
y8
y9
y10
y10−NH3
b11
y11−NH3
y11
b12
b13

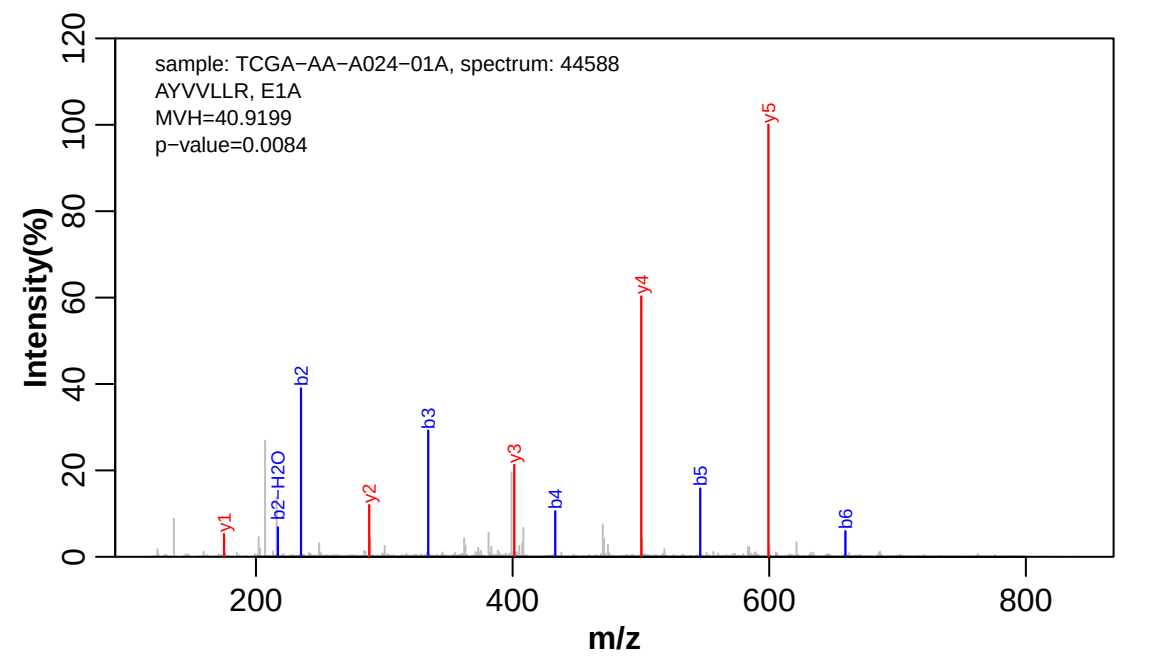

sample: TCGA−AA−A024−01A, spectrum: 51990
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=45.5249
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9++−NH3
b5
y4
y6++−NH3
y5
b7++−NH3
y6
b8
y7−H2O
b17++
b9
b21++−NH3
b20++−H2O
b21++
y25++
b28++
b28++−H2O

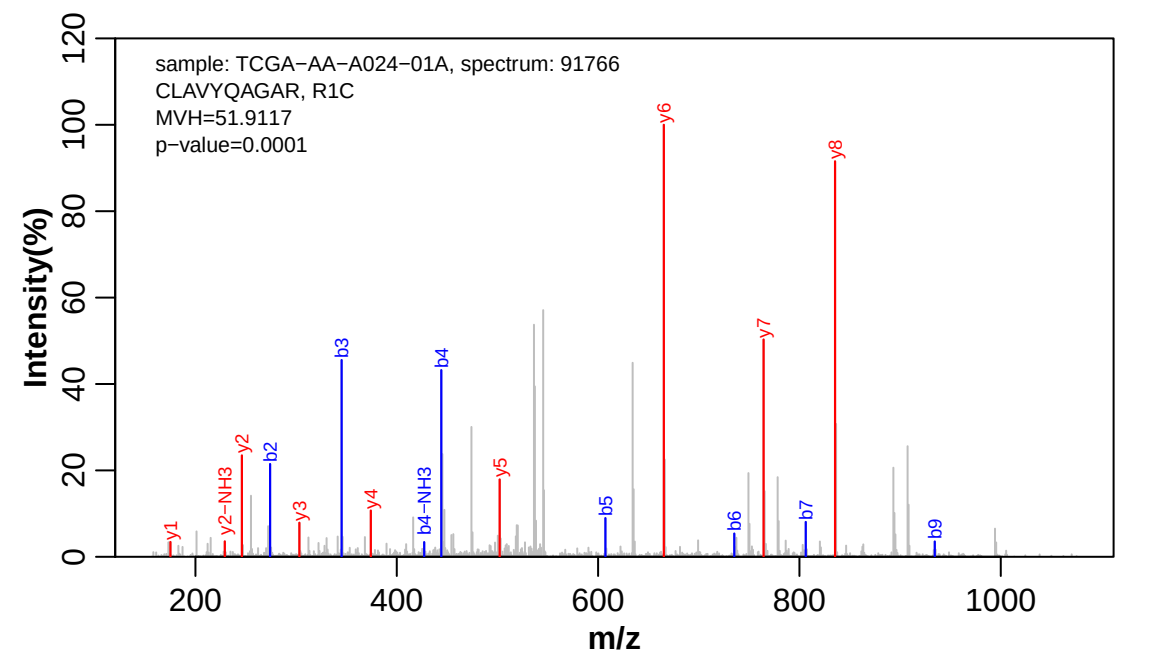

sample: TCGA−AA−A024−01A, spectrum: 38890
AAPSVTLFPPSSEELQANK, T2A
MVH=62.6113
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y10
y13
y14
b7−H2O
b7
b8−H2O
b8

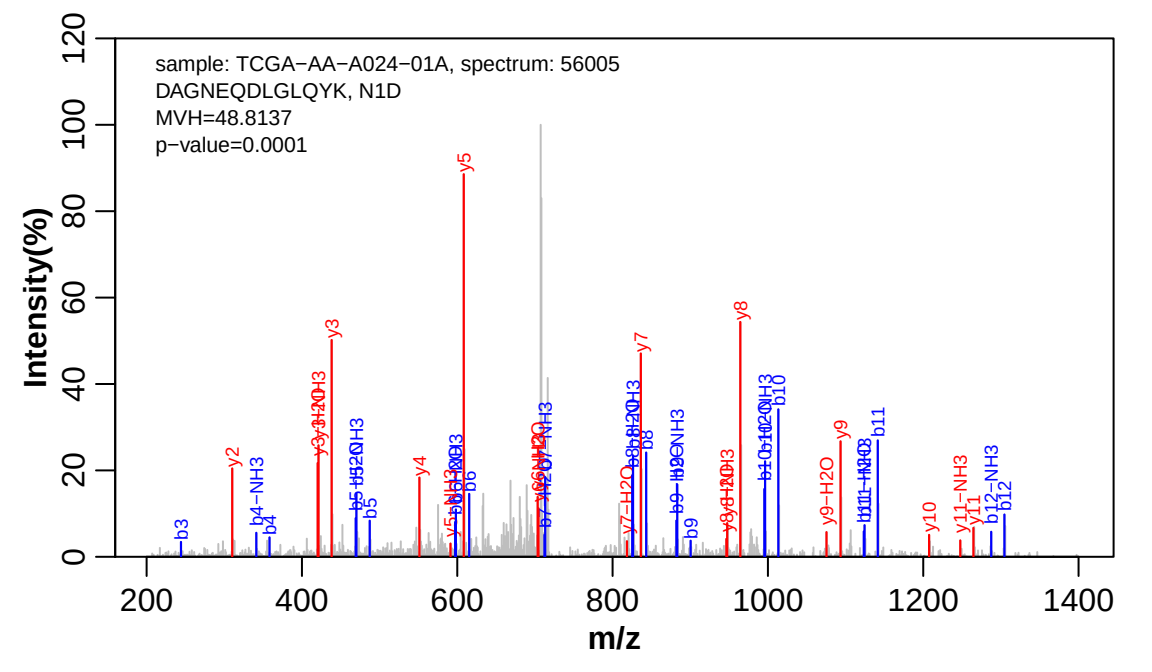

sample: TCGA−AA−A024−01A, spectrum: 95760
ACNVLQSSHLEDYPFDAEY, N16D
MVH=51.7791
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y6
y6−H2O
y7
y8
b10
b11
b12
b13
y13

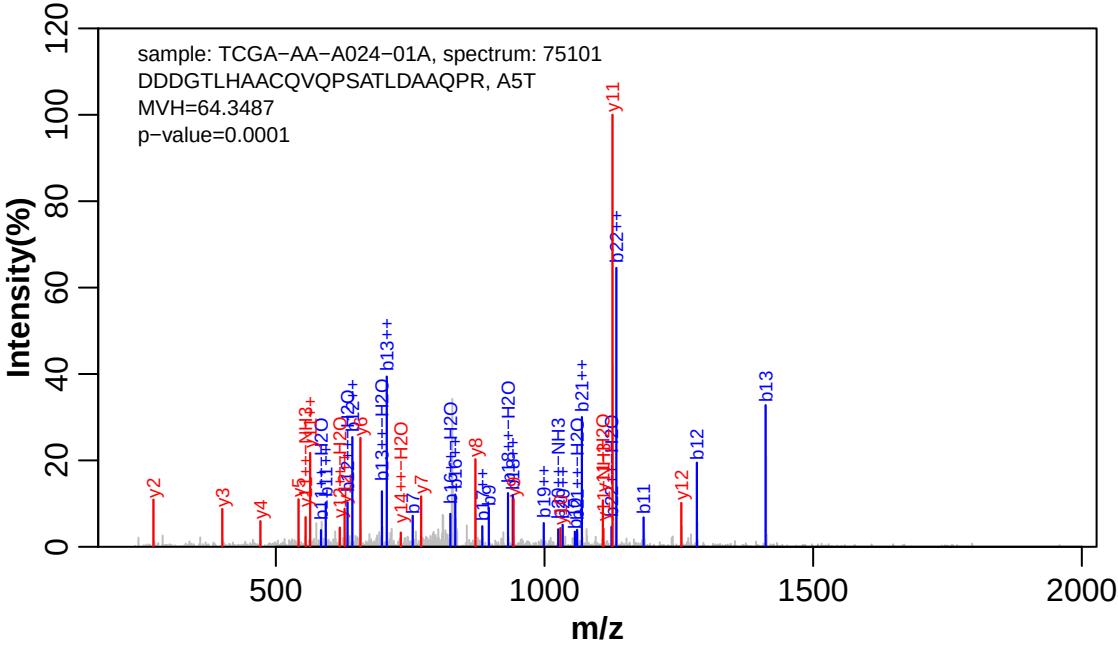

sample: TCGA−AA−A024−01A, spectrum: 70841
APPRPGPVPEAAQPFLFTTR, P19T
MVH=59.8385
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++−H2O
y7++
b10++−NH3
y11++
b12++
b13++−NH3
y9
b7
y12++−NH3
b8
y6
b16++
b17++
b10++−NH3−H2O
y8
b11
y5
b12
b13
b13+
y7

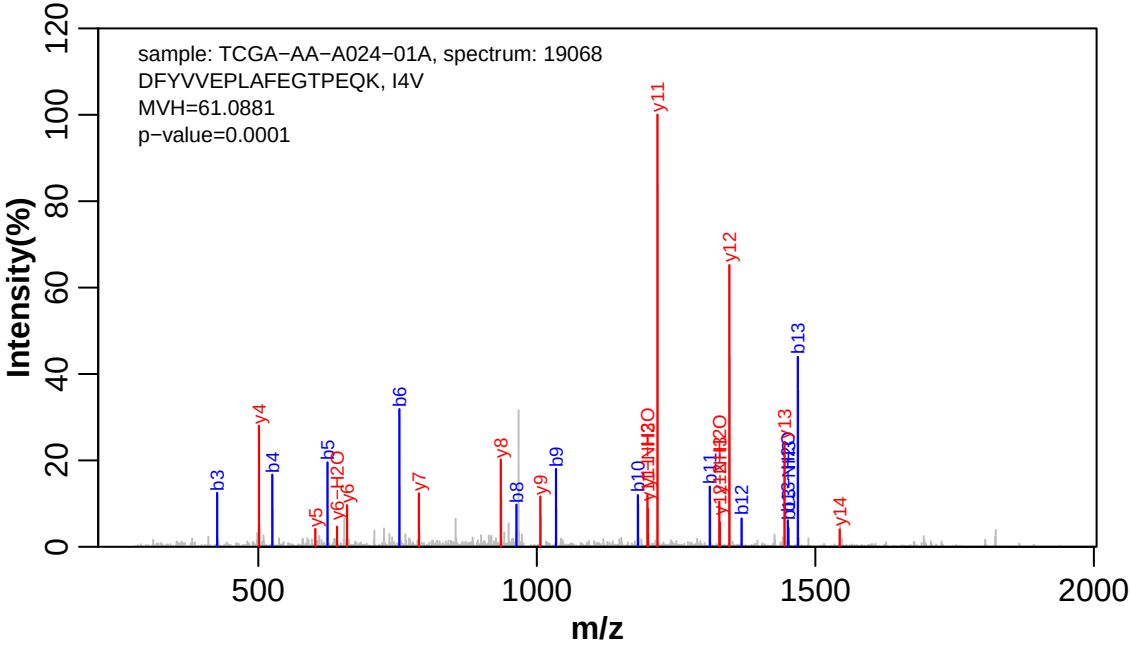

sample: TCGA−AA−A024−01A, spectrum: 64927
AVEVATVVLQPTVLR, S12T
MVH=42.7742
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b4
b5
b6−H2O
b6
y5
b7−NH3
b7
b7−H2O
y6
y6−H2O
y6−NH3
b8−NH3
b8−H2O
b8
y7−NH3
y7
b9−NH3
b9−H2O
b9
y8−H2O
y8
b10−NH3
b10−H2O
b10
y9
y10
y11−H2O
y11
y12−H2O
b12
b13
b14

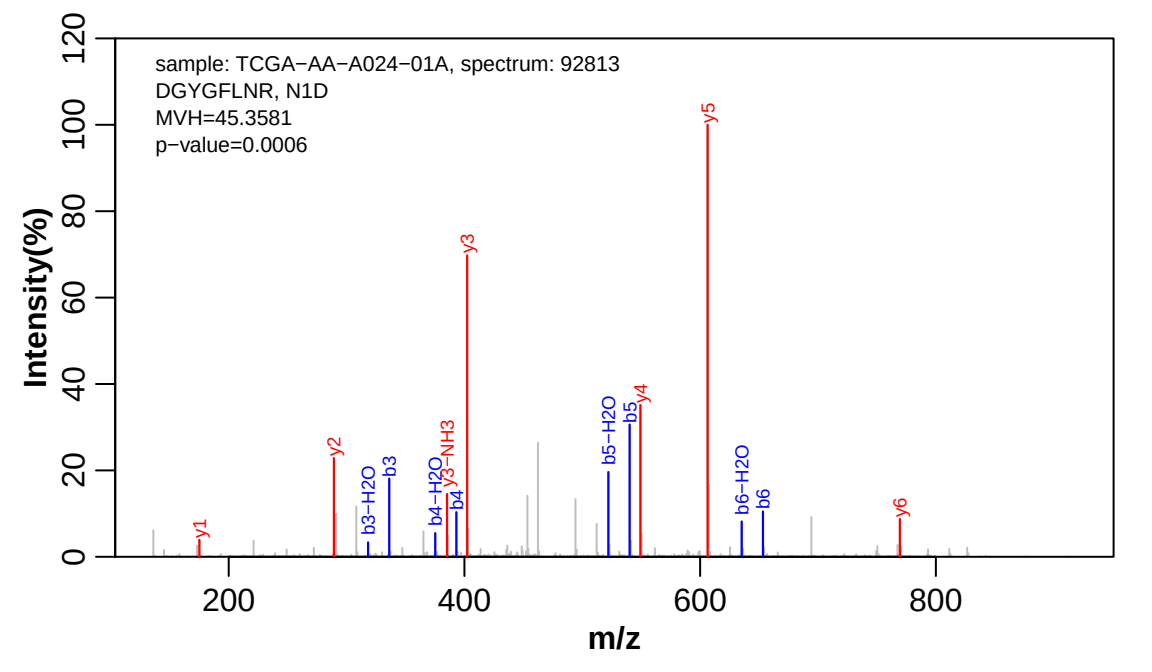

sample: TCGA−AA−A024−01A, spectrum: 44588
AYVVLLR, E1A
MVH=40.9199
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

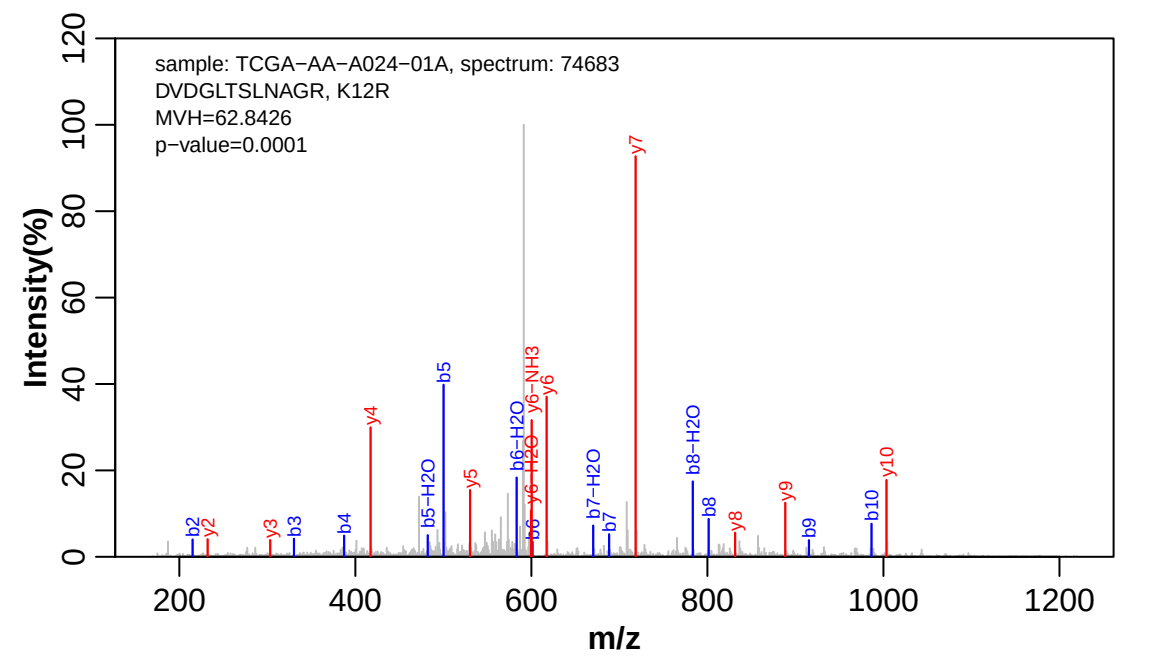

sample: TCGA−AA−A024−01A, spectrum: 91766
CLAVYQAGAR, R1C
MVH=51.9117
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
y2−NH3
y2
b2
y3
b3
y4
b4−NH3
b4
y5
b5
y6
b6
y7
b7
y8
b9

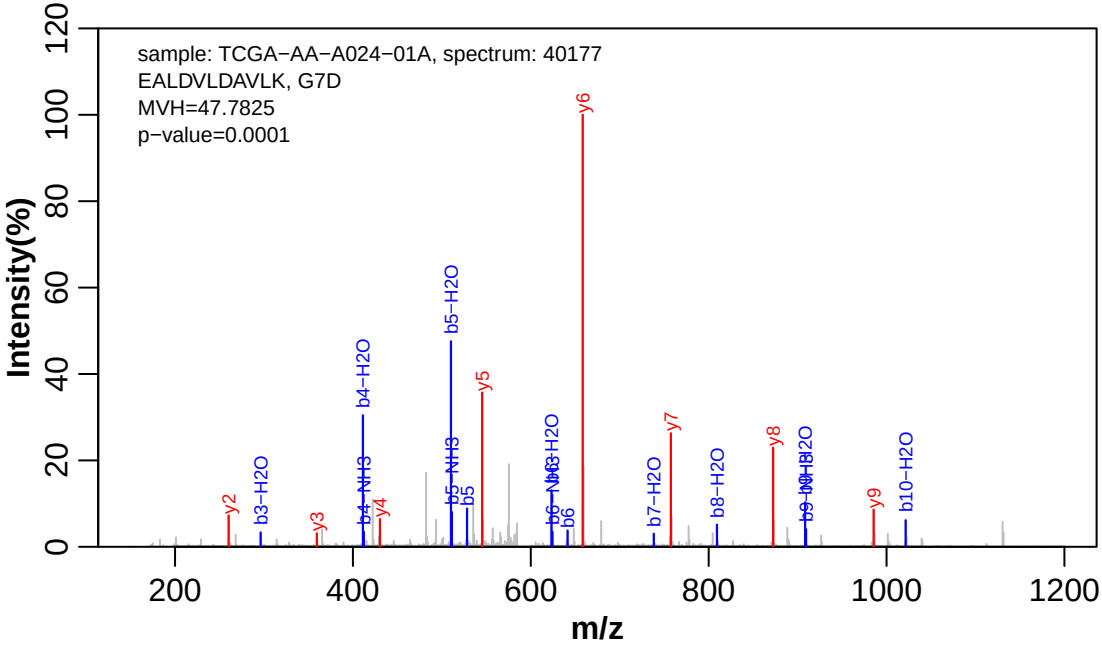

sample: TCGA−AA−A024−01A, spectrum: 56005
DAGNEQDLGLQYK, N1D
MVH=48.8137
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4−NH3
b4
y3
y5
y4
b5
b6
y7
y8
b8
b9
b10
y9
b11
y9−H2O
y10
y11−NH3
y11
b12−NH3
b12

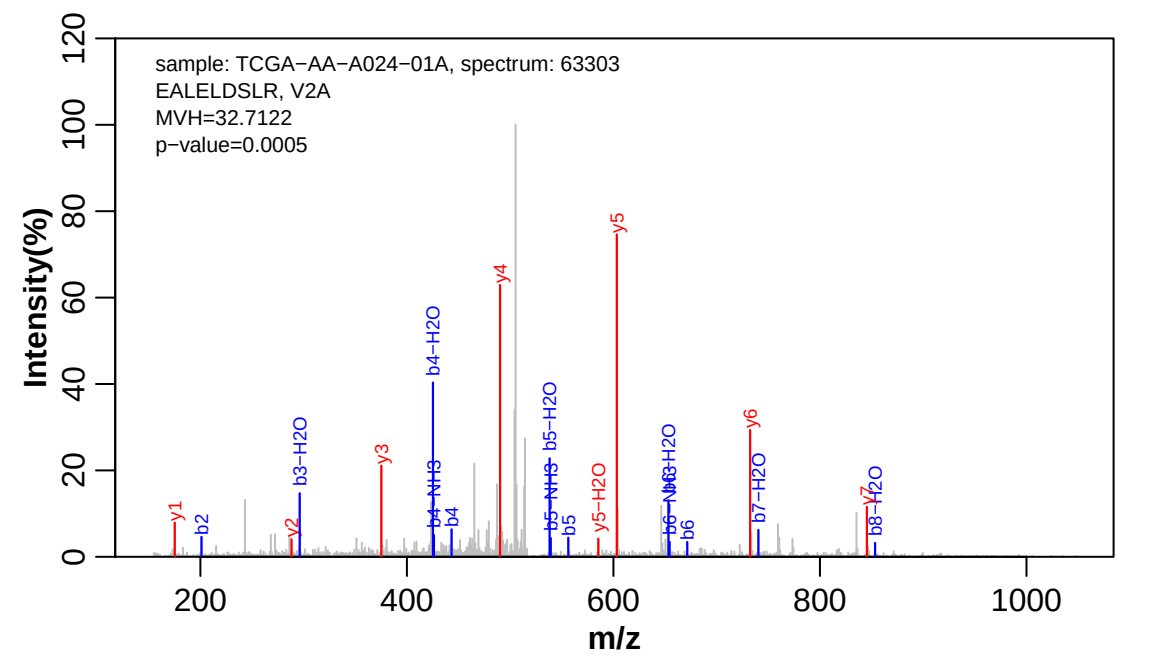

sample: TCGA−AA−A024−01A, spectrum: 75101
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=64.3487
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y5
y5++−NH3
y5++−H2O
y6
y6++−NH3
y6++−H2O
y7
y7++−NH3
y7++−H2O
y8
y8++−NH3
y8++−H2O
y9
y9++−NH3
y9++−H2O
y10
y10++−NH3
y10++−H2O
y11
y11++−NH3
y11++−H2O
y12
y12++−NH3
y12++−H2O
y14++−H2O
b5
b5++−H2O
b6
b6++−H2O
b7
b7++−H2O
b8
b8++−H2O
b9
b9++−NH3
b9++−H2O
b10
b10++−NH3
b10++−H2O
b11
b11++−NH3
b11++−H2O
b12
b12++−NH3
b12++−H2O
b13
b13++−H2O
b16++−H2O
b18++−H2O
b19++
b21++
b22++

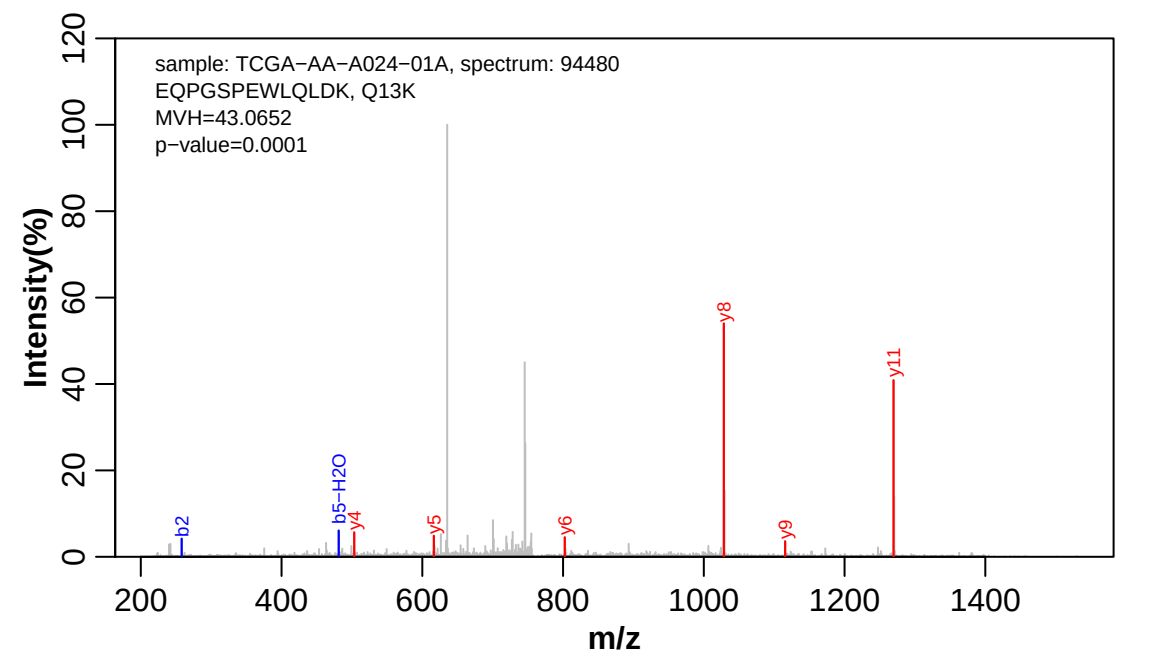

sample: TCGA−AA−A024−01A, spectrum: 19068
DFYVVEPLAFEGTPEQK, I4V
MVH=61.0881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
y6-H2O
y6
b5
b6
y7
y8
b8
y9
b9
b10
y11-NH3
y11-H2O
y11
b11
y12-NH3
y12-H2O
y12
b12
b13
y13-NH3
y13-H2O
y13
y14

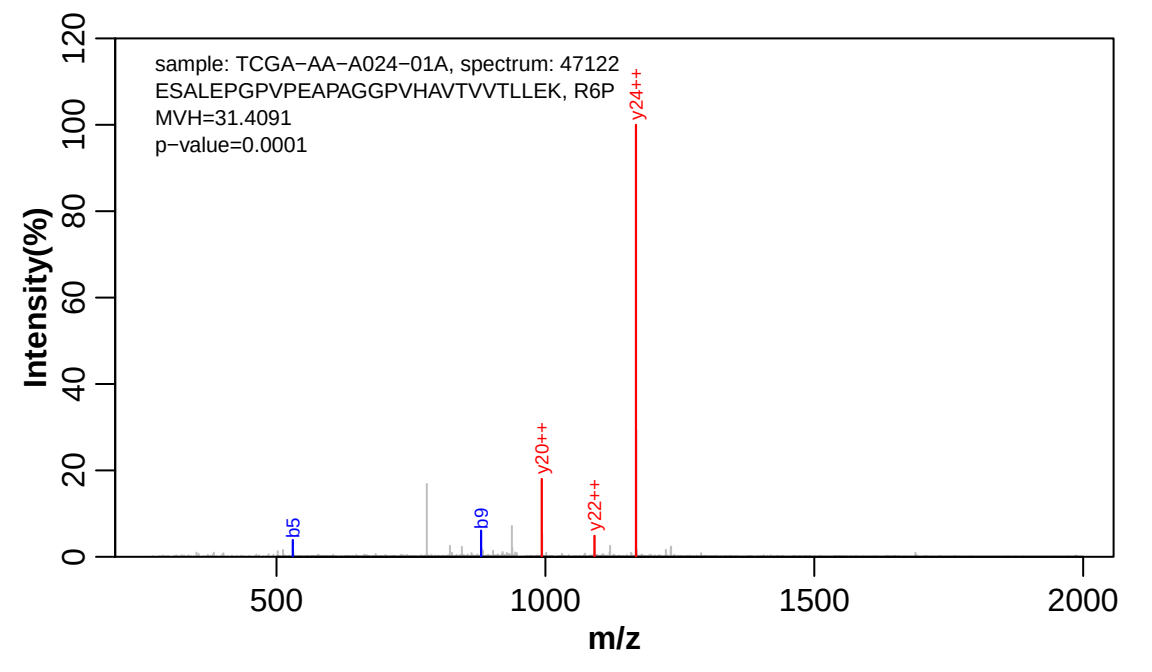

sample: TCGA−AA−A024−01A, spectrum: 92813
DGYGFLNR, N1D
MVH=45.3581
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

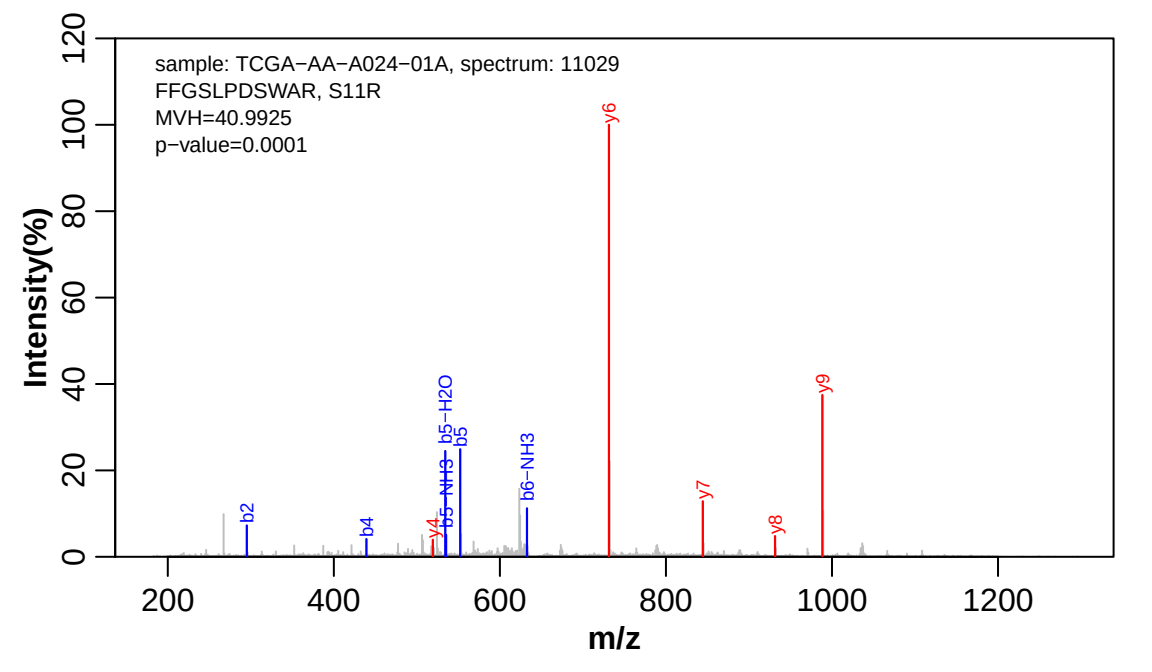

sample: TCGA−AA−A024−01A, spectrum: 74683
DVDGLTSLNAGR, K12R
MVH=62.8426
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−H2O
y6−H2O
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
y9
b9
b10
y10

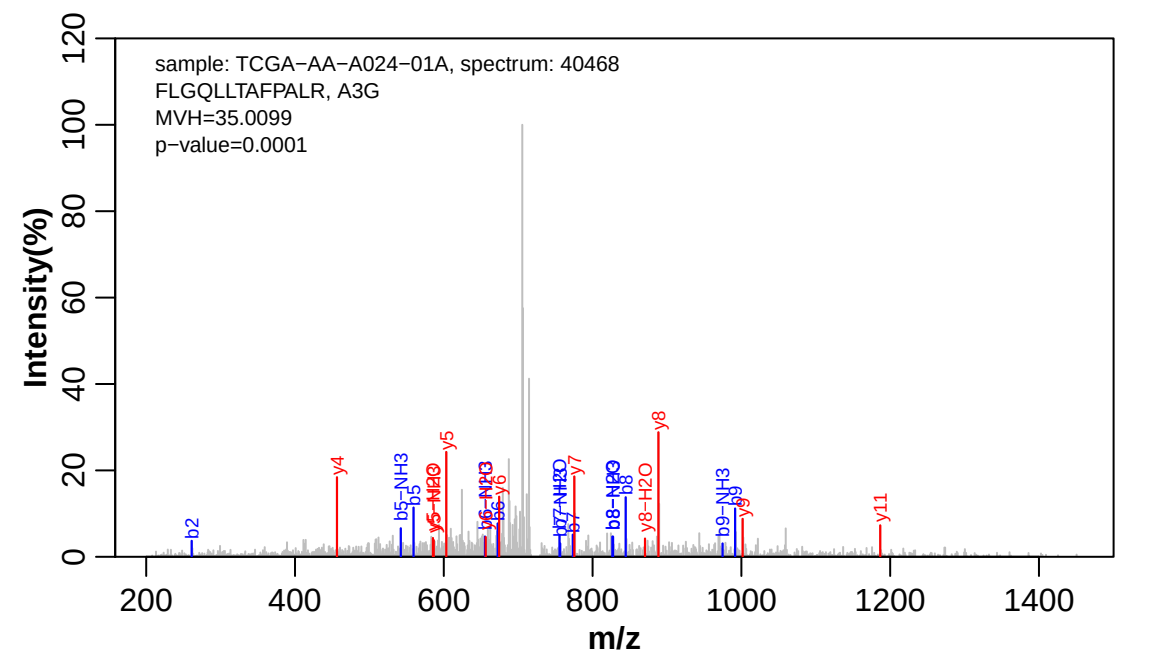

sample: TCGA−AA−A024−01A, spectrum: 40177
EALDVLDAVLK, G7D
MVH=47.7825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−NH3
b9−H2O
y9
b10−H2O

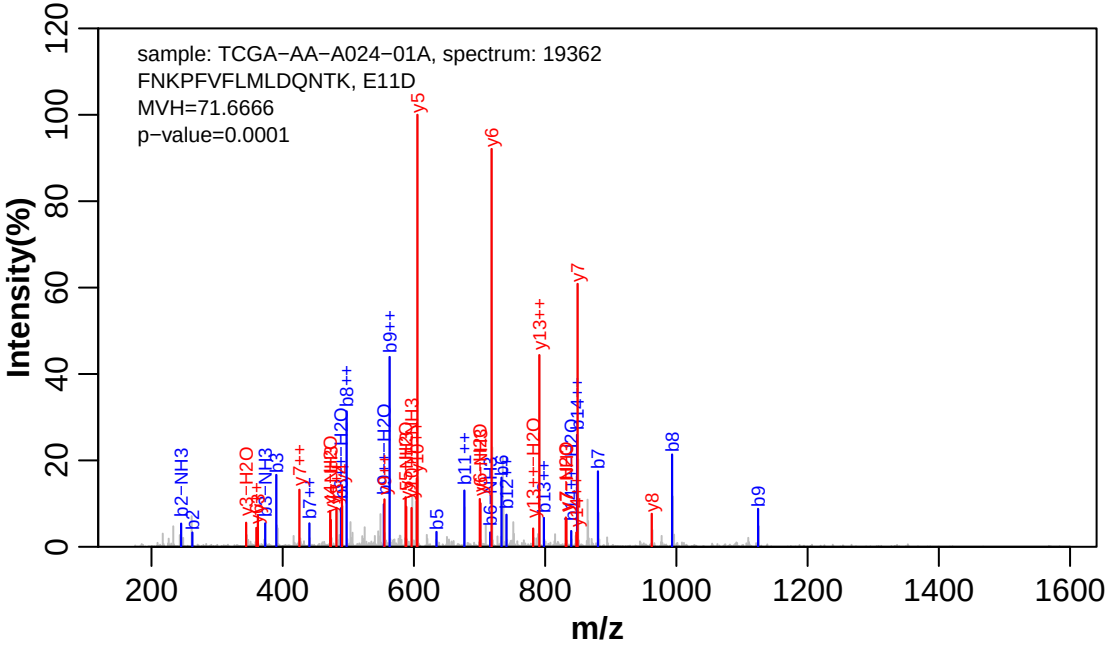

sample: TCGA−AA−A024−01A, spectrum: 63303
EALELDSLR, V2A
MVH=32.7122
p−value=0.0005
Intensity(%)
m/z
y1
b2
y2
b3−H2O
y3
b4−NH3
b4
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
y5−H2O
b6−NH3
b6
b6−H2O
y6
b7−H2O
y7
b8−H2O

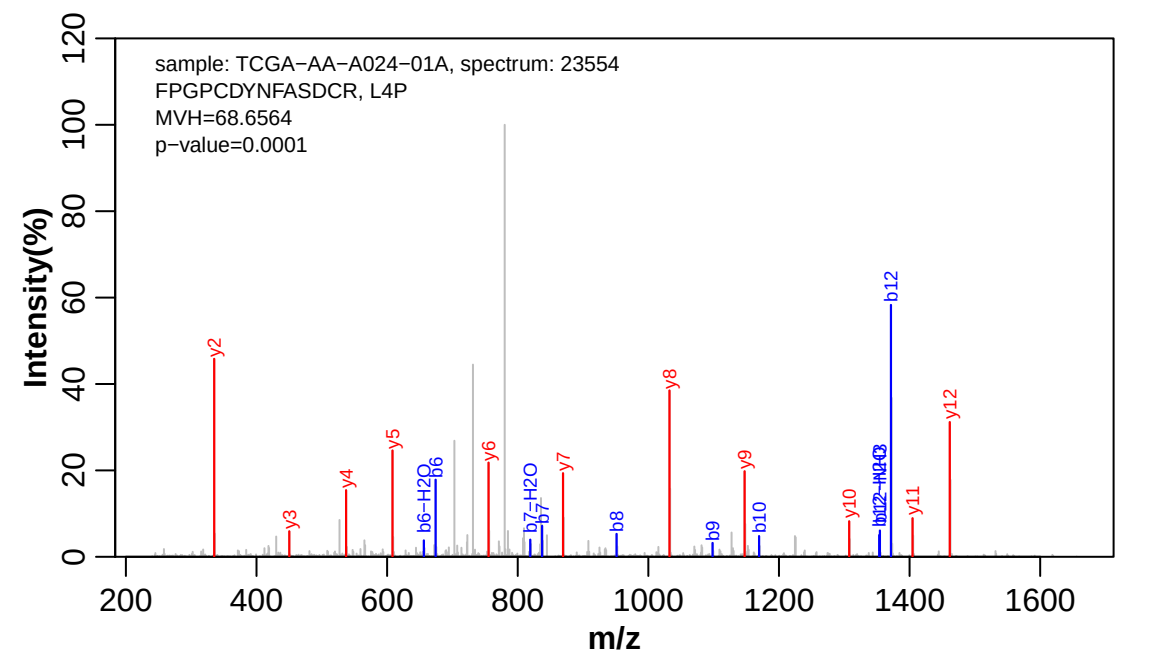

sample: TCGA−AA−A024−01A, spectrum: 94480
EQPGSPEWLQLDK, Q13K
MVH=43.0652
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b2
b5−H2O
y4
y5
y6
y8
y9
y11

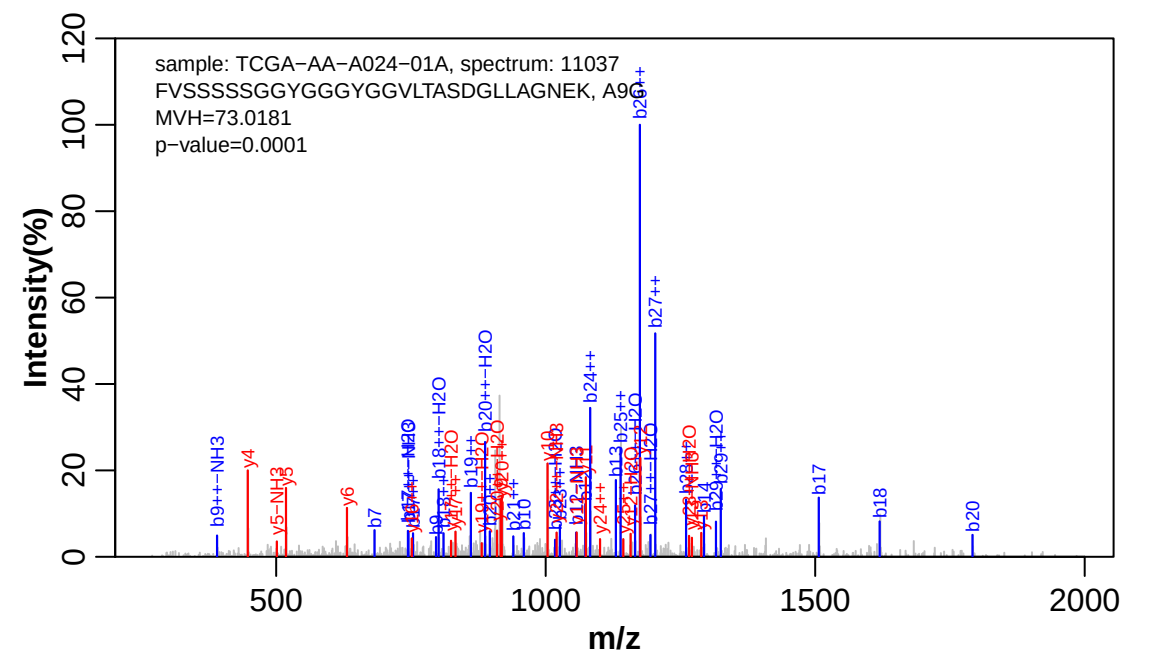

sample: TCGA−AA−A024−01A, spectrum: 47122
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=31.4091
p−value=0.0001
y24++
y20++
y22++
b9
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

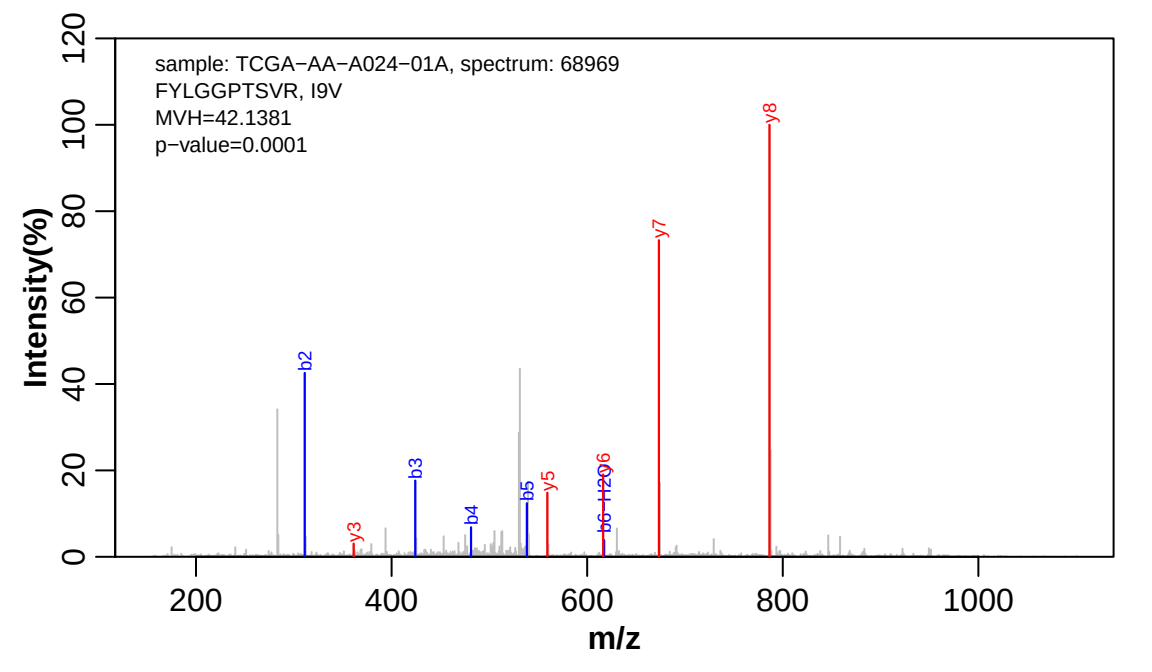

sample: TCGA−AA−A024−01A, spectrum: 11029
FFGSLPDSWAR, S11R
MVH=40.9925
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3

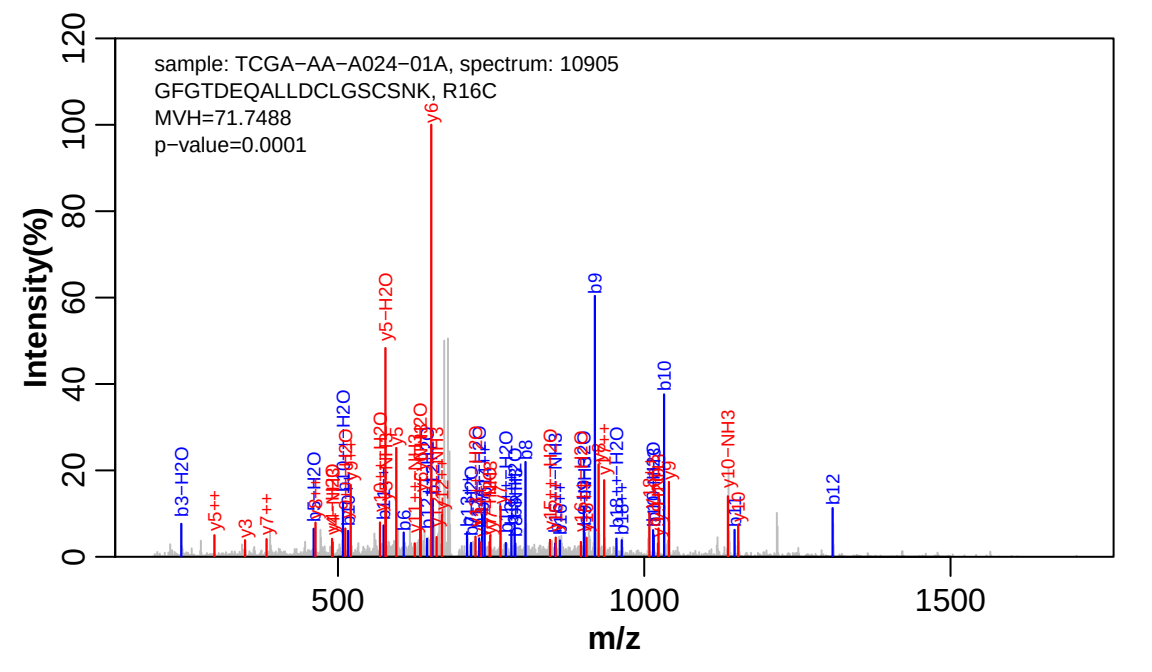

sample: TCGA−AA−A024−01A, spectrum: 40468
FLGQLLTAFPALR, A3G
MVH=35.0099
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4
b5−NH3
b5
y5
y5−H2O
y5−NH3
b6−NH3
b6
y6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8
y8
y8−H2O
b9−NH3
b9
y9
y11

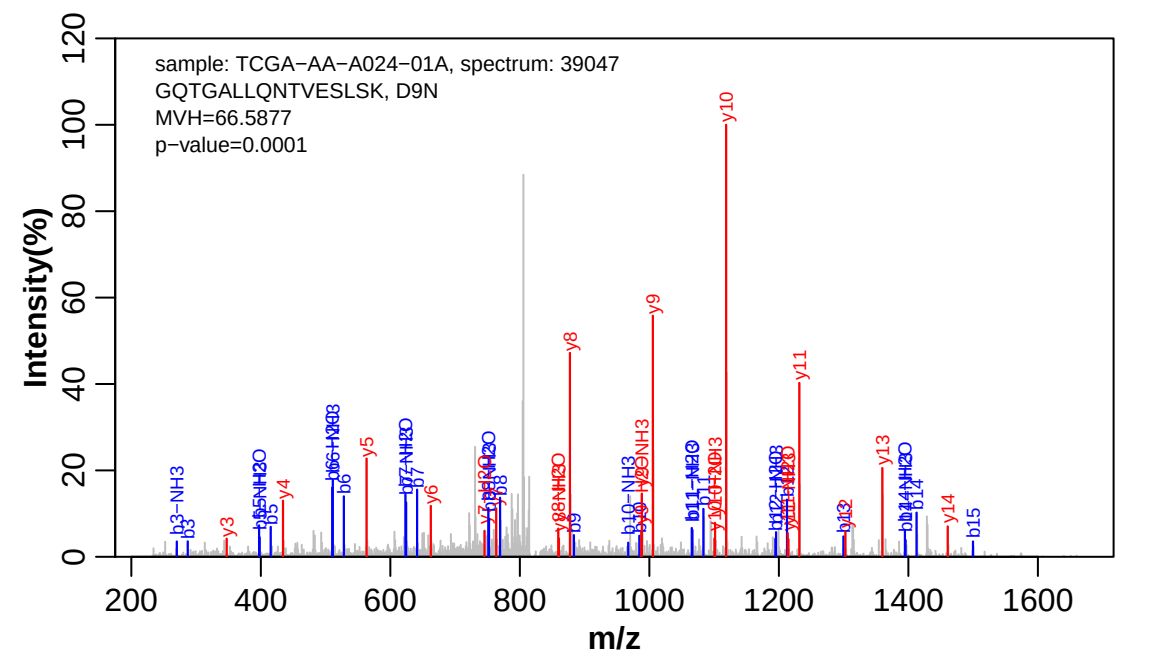

sample: TCGA−AA−A024−01A, spectrum: 19362
FNKPFVFLMLDQNTK, E11D
MVH=71.6666
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y13++
b9++
b8++
b11++
b7
b8
b9
y8
b5
b2−NH3
b2
y3−H2O
b3−NH3
b3
y7++
b7++

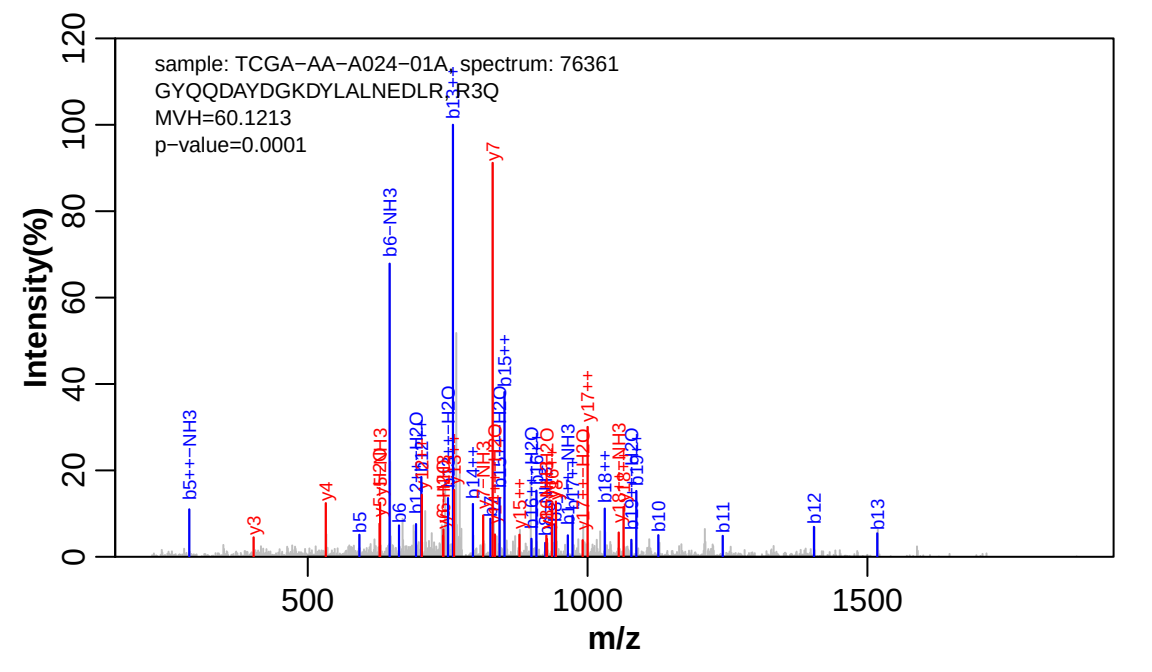

sample: TCGA−AA−A024−01A, spectrum: 23554
FPGPCDYNFASDCR, L4P
MVH=68.6564
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8
y8
b9
y9
b10
y10
b12−H2O
b12−NH3
b12
y11
y12

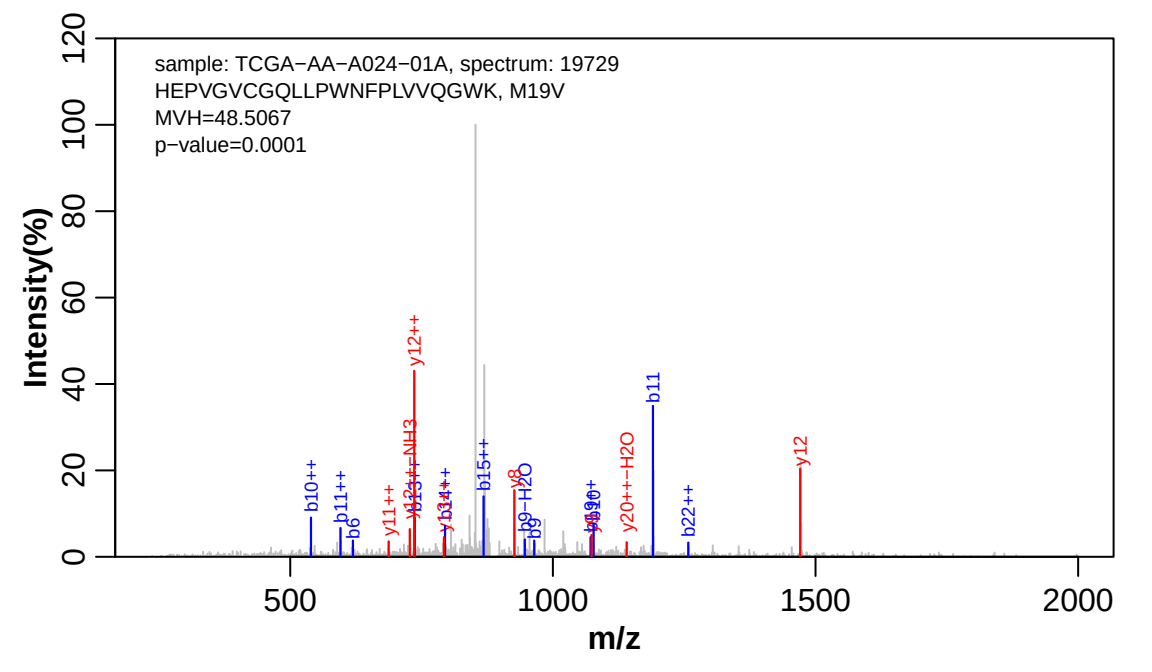

sample: TCGA−AA−A024−01A, spectrum: 11037
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=73.0181
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5−NH3
y3
y6
b7
b18++−H2O
b19++
b20++−H2O
b21++
b10++
y24++
b13
b25++
b27++−H2O
b24++
b26++
b27++
b17
b18
b20

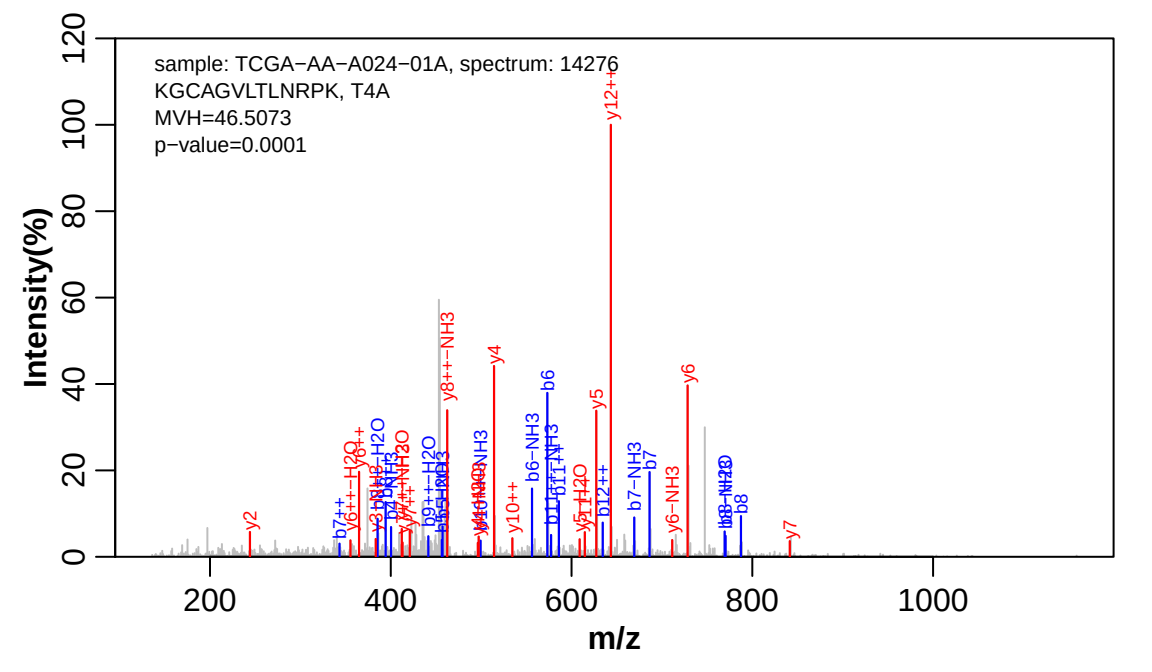

sample: TCGA−AA−A024−01A, spectrum: 68969
FYLGGPTSVR, I9V
MVH=42.1381
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b3
b4
b5
y5
b6−H2O
b6
y7
y8

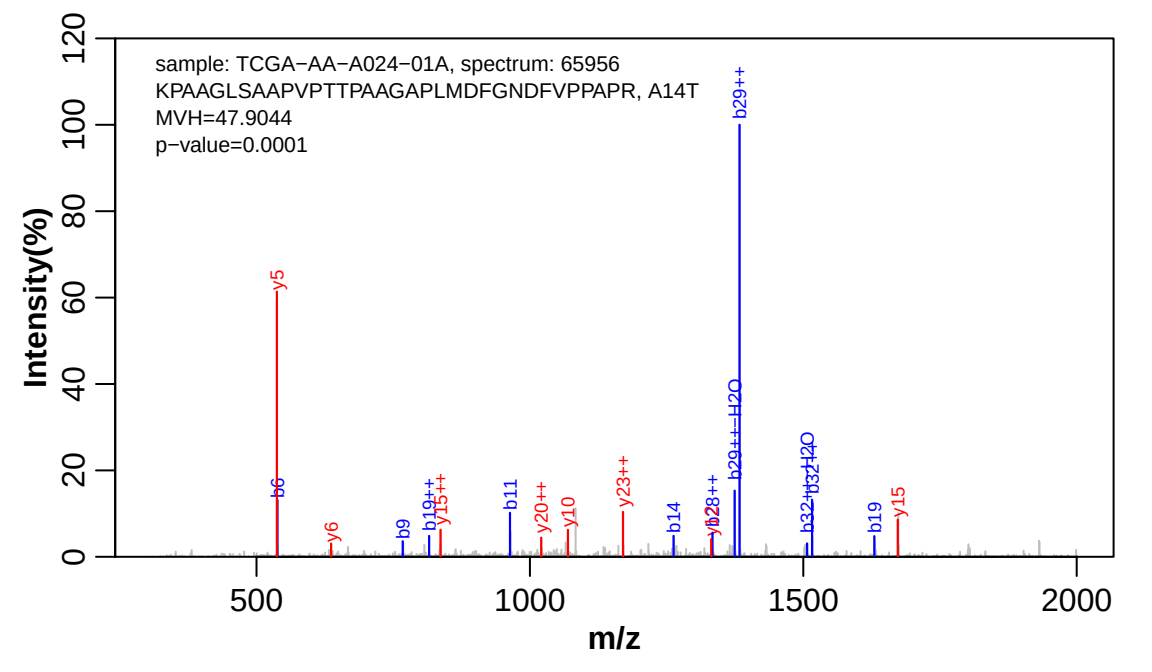

sample: TCGA−AA−A024−01A, spectrum: 10905
GFGTDEQALLDCLGSCSNK, R16C
MVH=71.7488
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
y10−NH3
b12
b3−H2O
y5++
y3
y7++

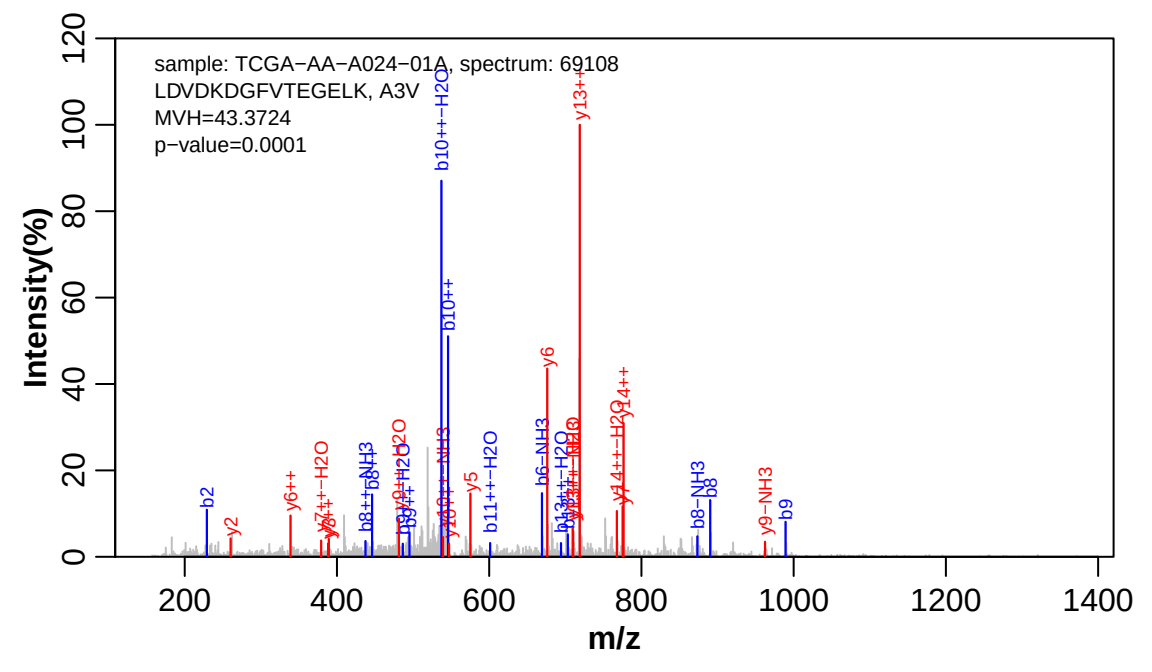

sample: TCGA−AA−A024−01A, spectrum: 39047
GQTGALLQNTVESLSK, D9N
MVH=66.5877
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y6
y4
y3
y14
b15
b10−NH3
b3−NH3

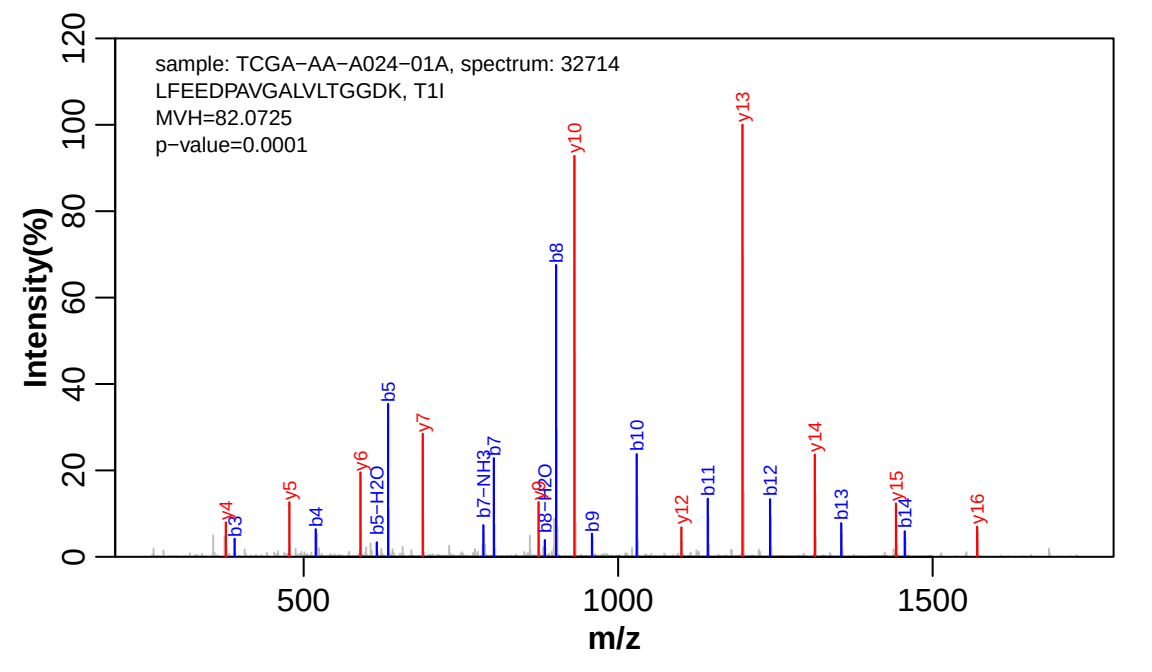

sample: TCGA−AA−A024−01A, spectrum: 76361
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=60.1213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
y7
b6−NH3
b5++−NH3
y4
y3
b5
b6
b12
b14++
b15++
y17++
b18++
b10
b11
b12
b13

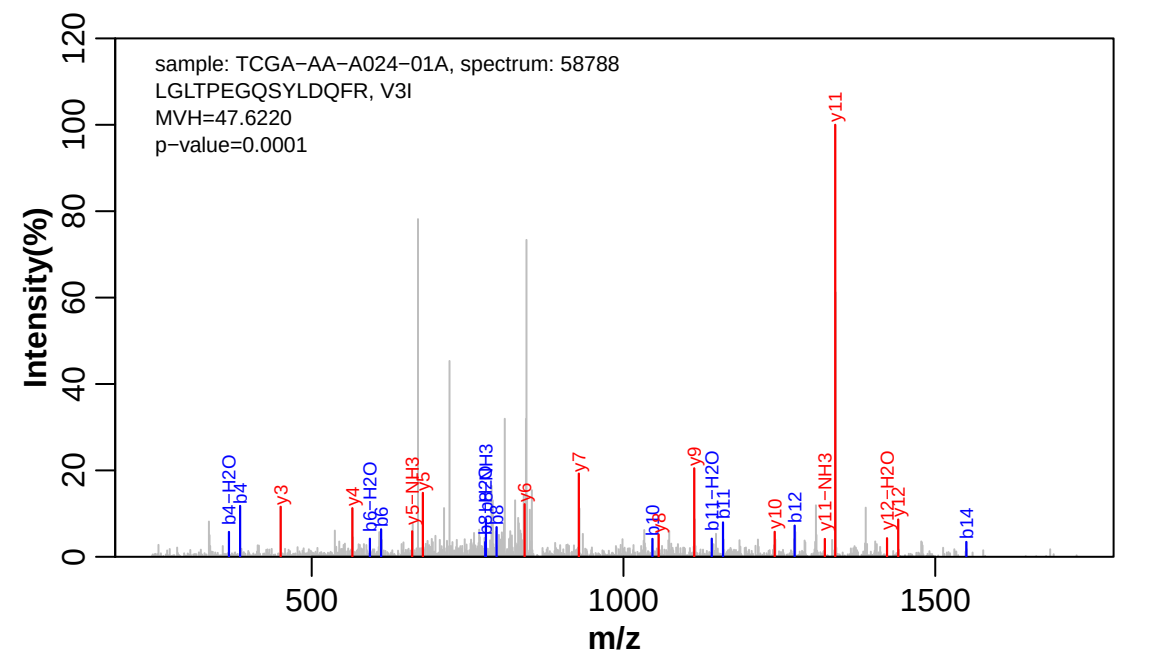

sample: TCGA−AA−A024−01A, spectrum: 19729
HEPVGVCGQLLPWNFPLVVQGWK, M19V
MVH=48.5067
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b10++
b11++
b6
y11++
y12++
y12++−NH3
y13++
b15++
y8
b9−H2O
b9
b11
y20++−H2O
b22++
y12

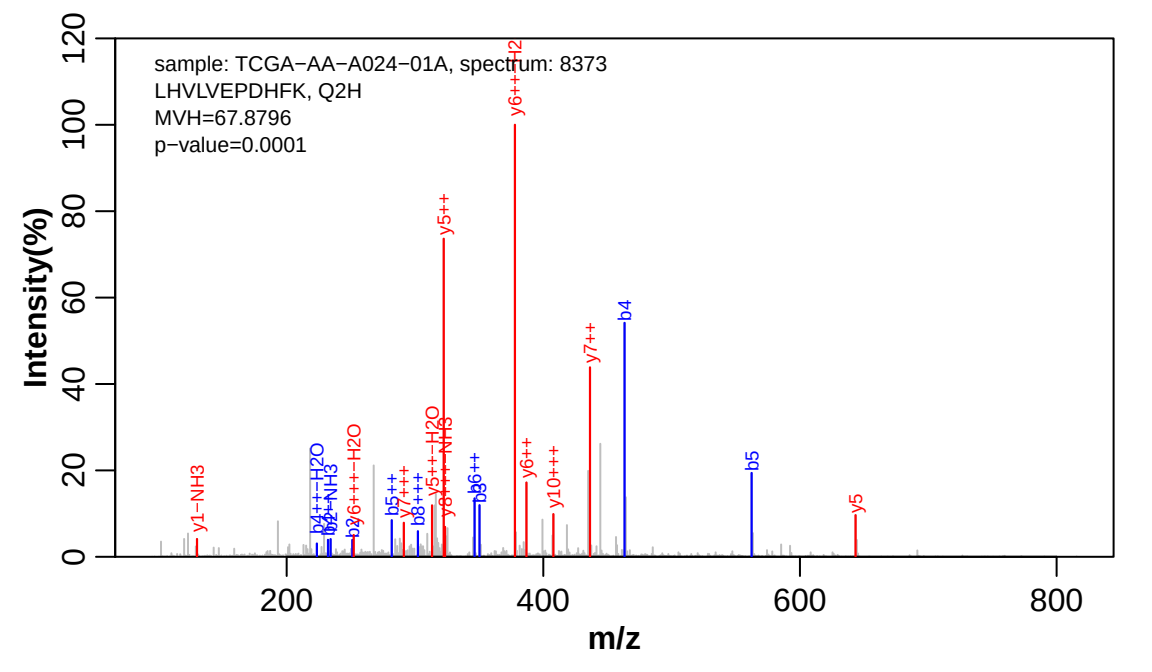

sample: TCGA−AA−A024−01A, spectrum: 14276
KGCAGVLTLNRPK, T4A
MVH=46.5073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y12++
y8++−NH3
y4
b6
y5
y6
b6−NH3
b7
b7−NH3
y6−NH3
y10++
y7
y2
b7++
b8
b8−NH3

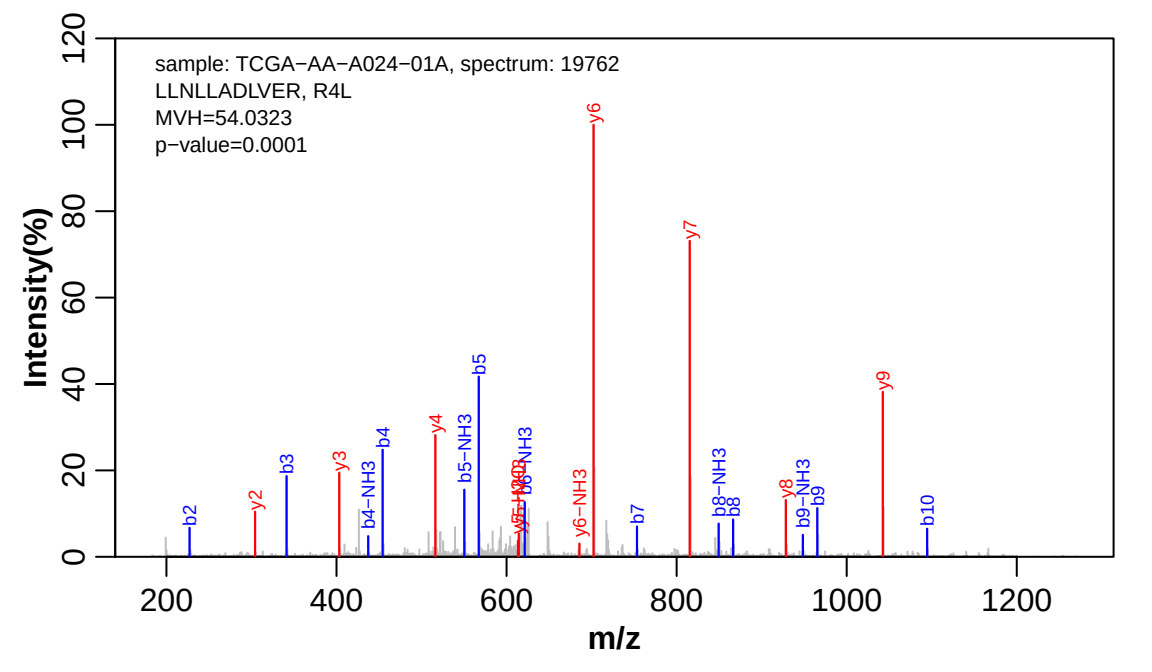

sample: TCGA−AA−A024−01A, spectrum: 65956
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=47.9044
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b29++
y5
b6
y6
b9
b19++
y15++
b11
y20++
y10
y23++
b14
y28++
b29++−H2O
b32++−H2O
b19
y15

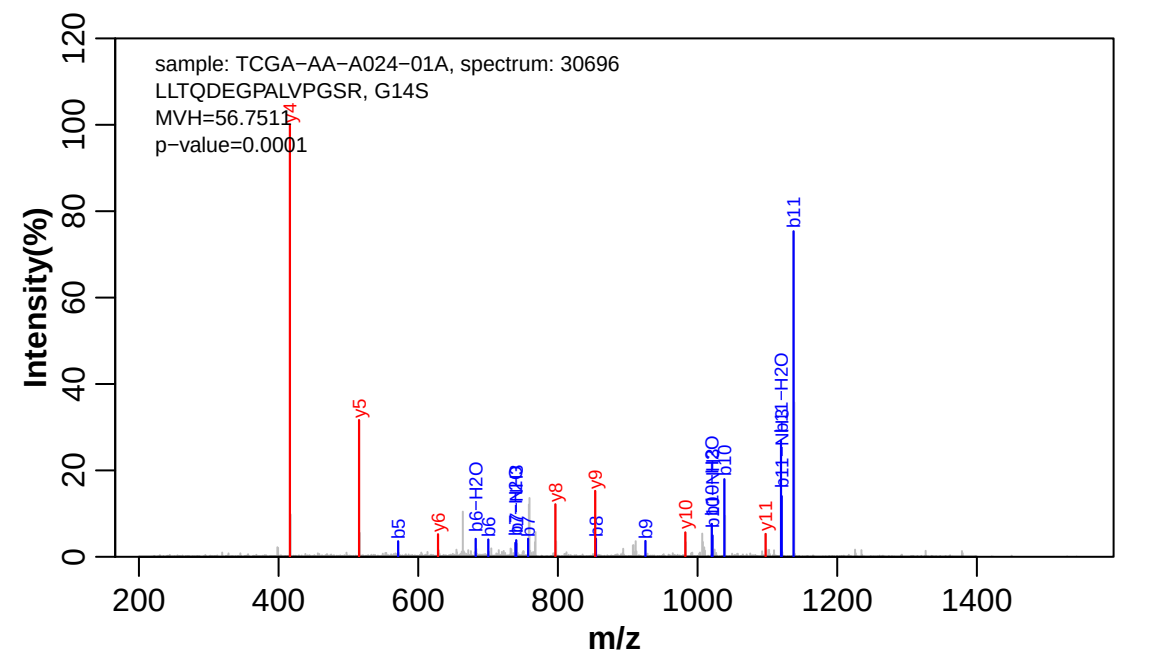

sample: TCGA−AA−A024−01A, spectrum: 69108
LDVDKDGFVTEGELK, A3V
MVH=43.3724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y6++
y7++−H2O
y8++
b8++−NH3
b8
b9++−H2O
y10++−NH3
b10++−H2O
b10++
y5
b11++−H2O
b6−NH3
y6
y13++
y14++−H2O
y14++
b8−NH3
b8
y9−NH3
b9

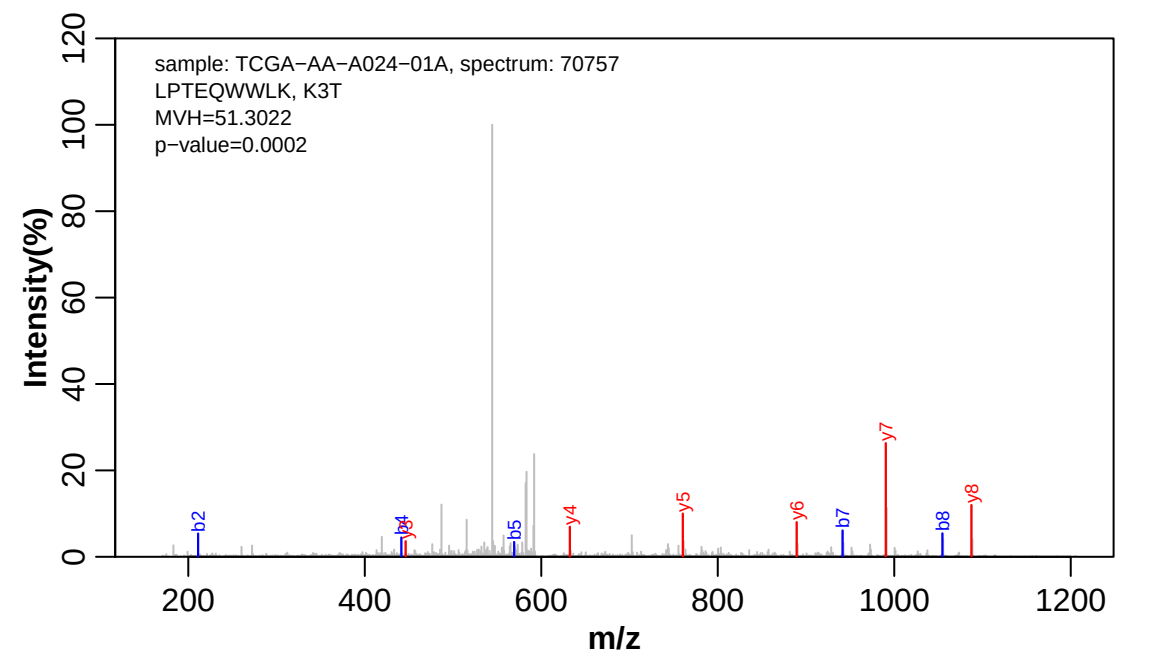

sample: TCGA−AA−A024−01A, spectrum: 32714
LFEEDPAVGALVLTGGDK, T1I
MVH=82.0725
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5−H2O
b5
y7
b7−NH3
b7
b8−NH3
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

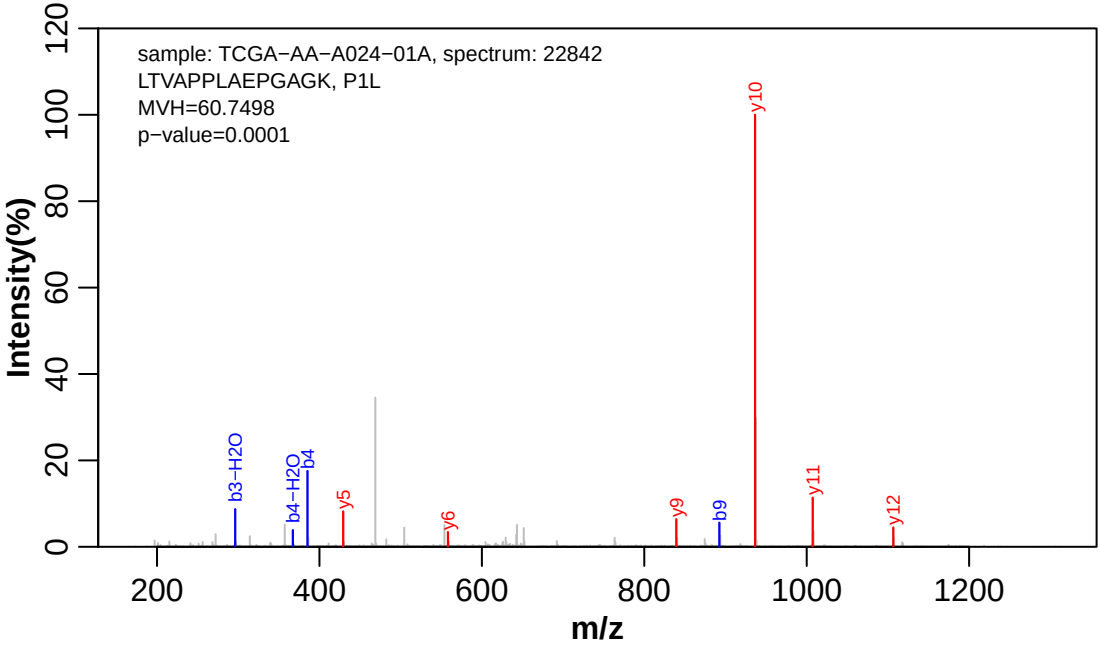

sample: TCGA−AA−A024−01A, spectrum: 58788
LGLTPEGQSYLDQFR, V3I
MVH=47.6220
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−H2O
b4
y3
y4
b6−H2O
b6
y5−NH3
y5
b8−NH3
b8−H2O
b8
y6
y7
b10
y8
y9
b11−H2O
b11
y10
b12
y11−NH3
y11
y12−H2O
y12
b14

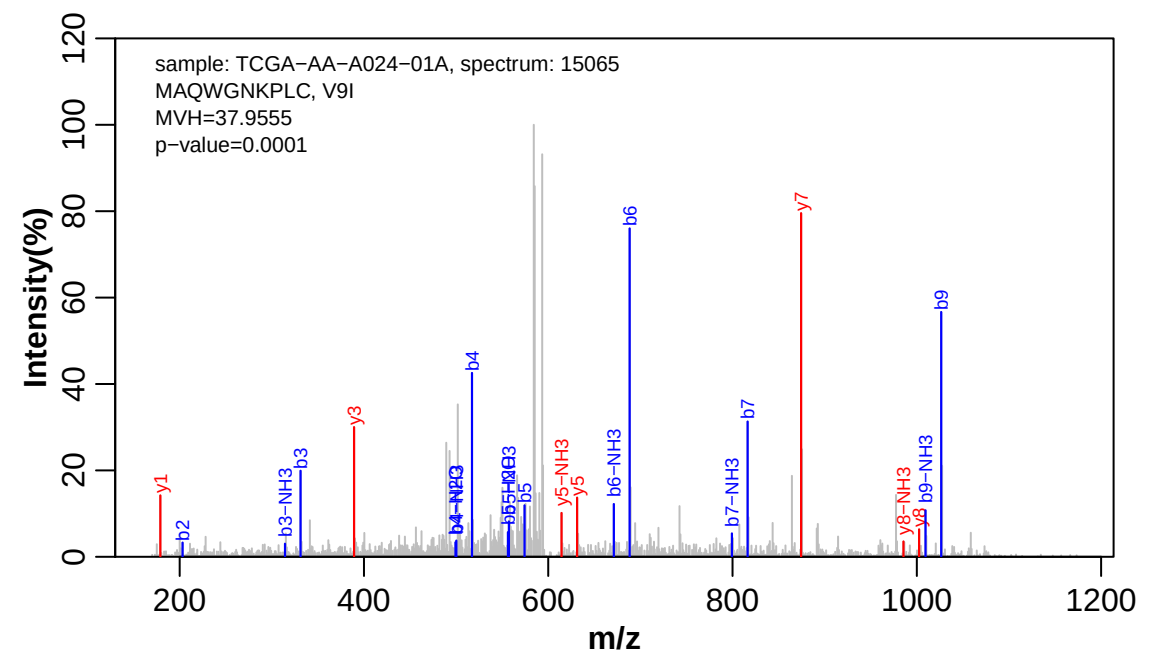

sample: TCGA−AA−A024−01A, spectrum: 8373
LHVLVEPDHFK, Q2H
MVH=67.8796
p−value=0.0001
Intensity(%)
m/z
y6++−H2
y5++
b4
y7++
y6++
y10+++
b5
y5
y1−NH3
b4++−H2O
b4++−NH3
b2
b6+++−H2O
b5++
y7+++
b8+++
y5+++−H2O
y5+++−NH3
b6++

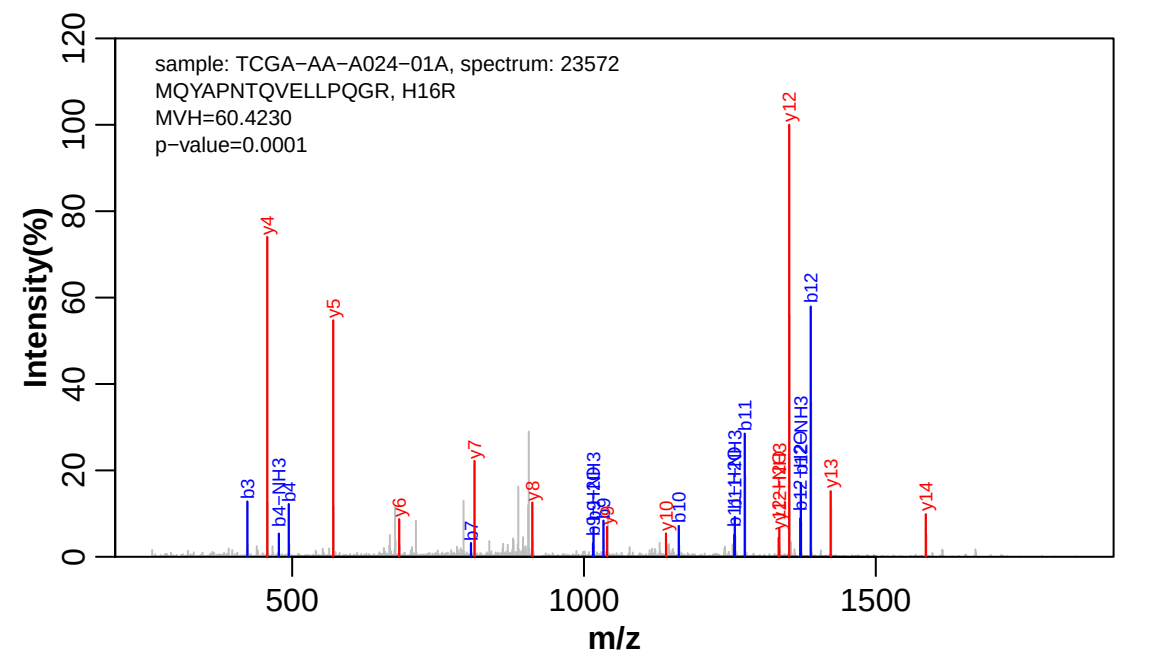

sample: TCGA−AA−A024−01A, spectrum: 19762
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y6−NH3
b7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10
y6
y7

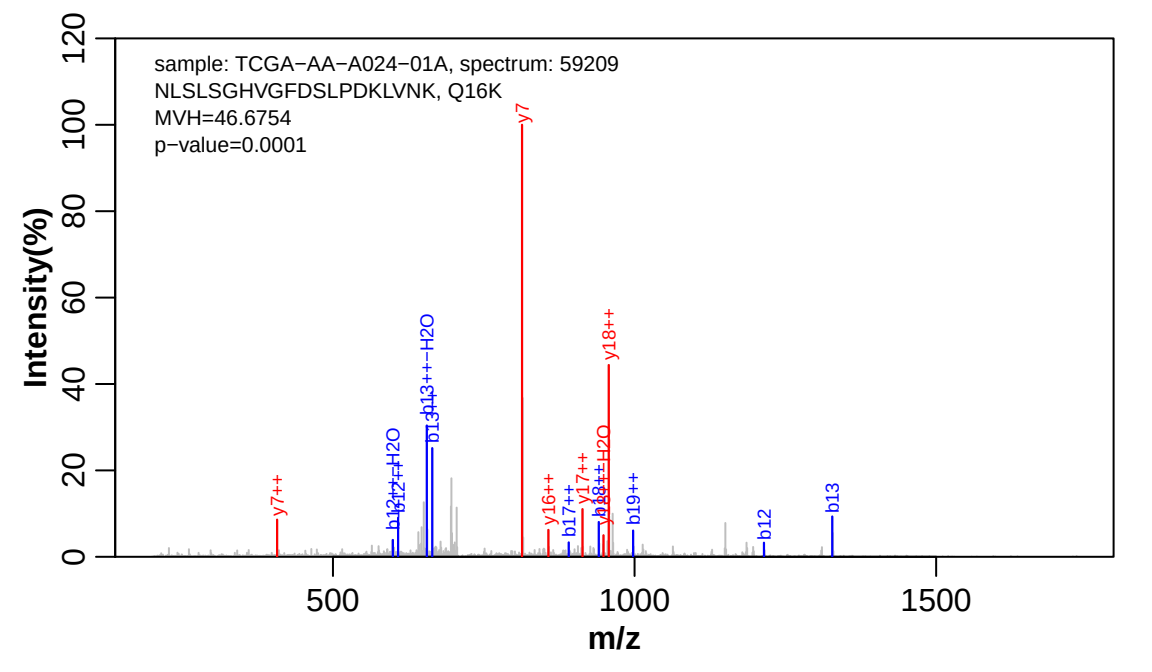

sample: TCGA−AA−A024−01A, spectrum: 30696
LLTQDEGPALVPGSR, G14S
MVH=56.7511
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
b5
b6
b6−H2O
y8
y9
b8
b9
y10
b10
y11
b11
b11−H2O

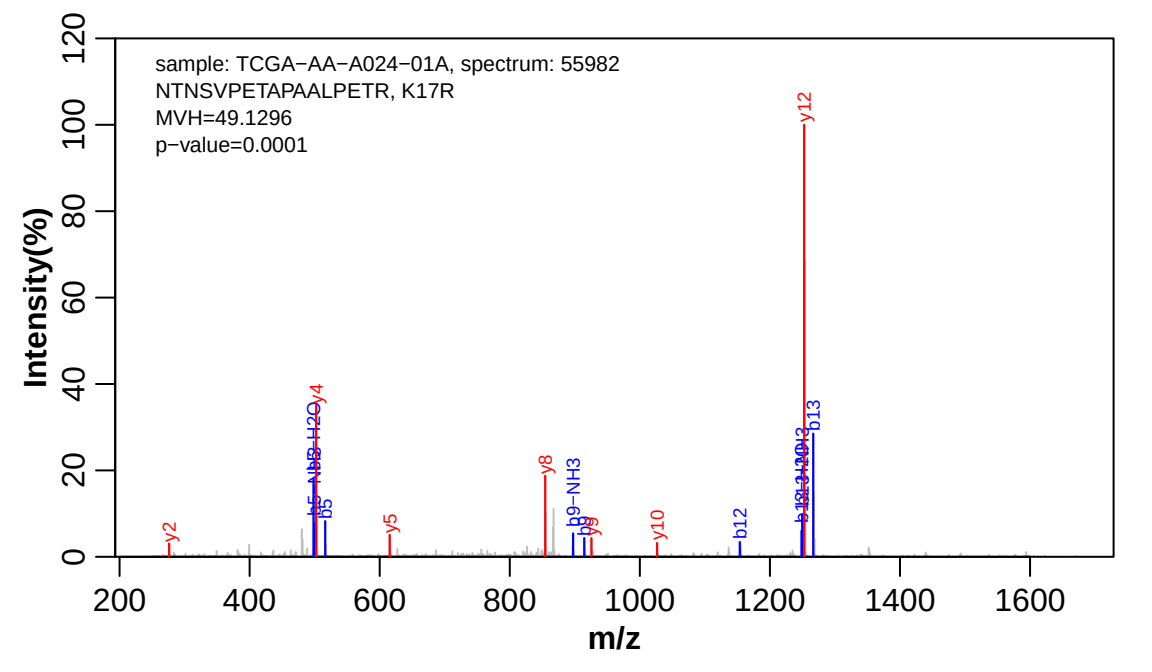

sample: TCGA−AA−A024−01A, spectrum: 70757
LPTEQWWLK, K3T
MVH=51.3022
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4
y3
b5
y4
y5
y6
b7
y7
b8
y8

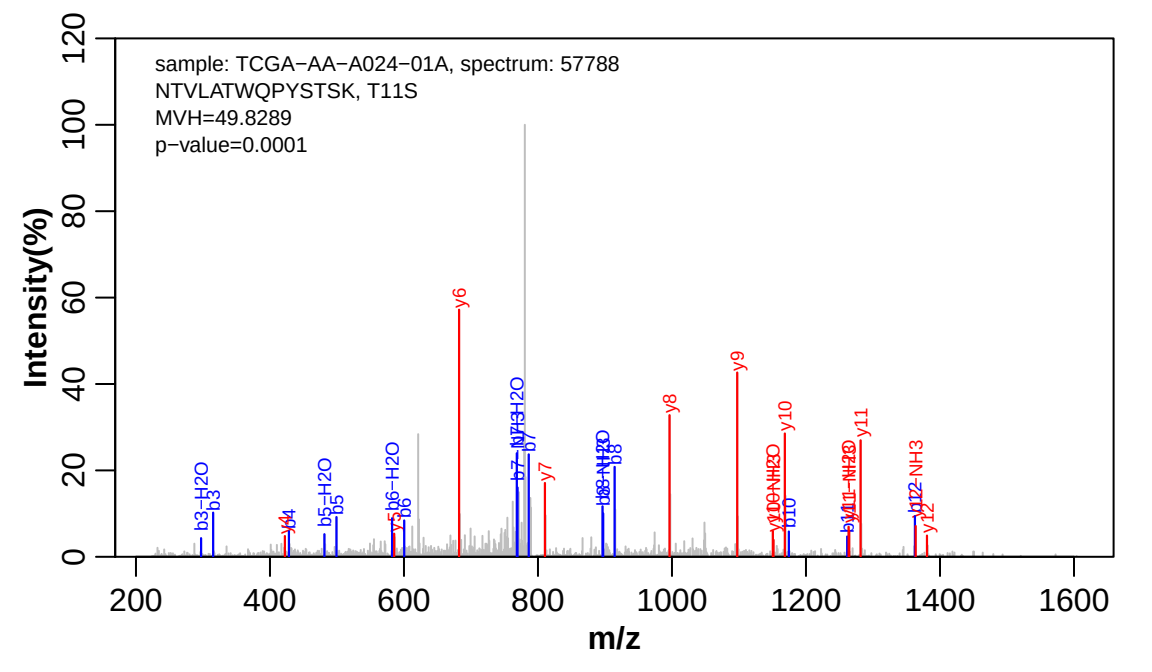

sample: TCGA−AA−A024−01A, spectrum: 22842
LTVAPPLAEPGAGK, P1L
MVH=60.7498
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3−H2O
b4−H2O
b4
y5
y6
y9
b9
y10
y11
y12

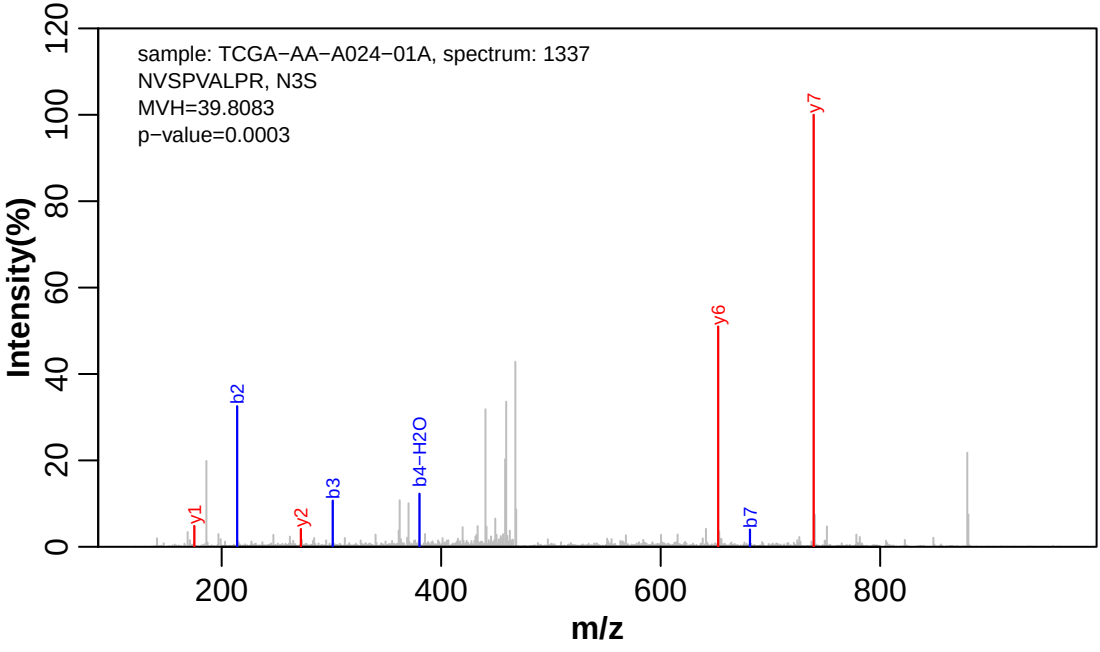

sample: TCGA−AA−A024−01A, spectrum: 15065
MAQWGNKPLC, V9I
MVH=37.9555
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
b3−NH3
b3
y3
b4
b5
y5−NH3
y5
b6−NH3
b6
b7−NH3
b7
y7
y8−NH3
y8
b9−NH3
b9

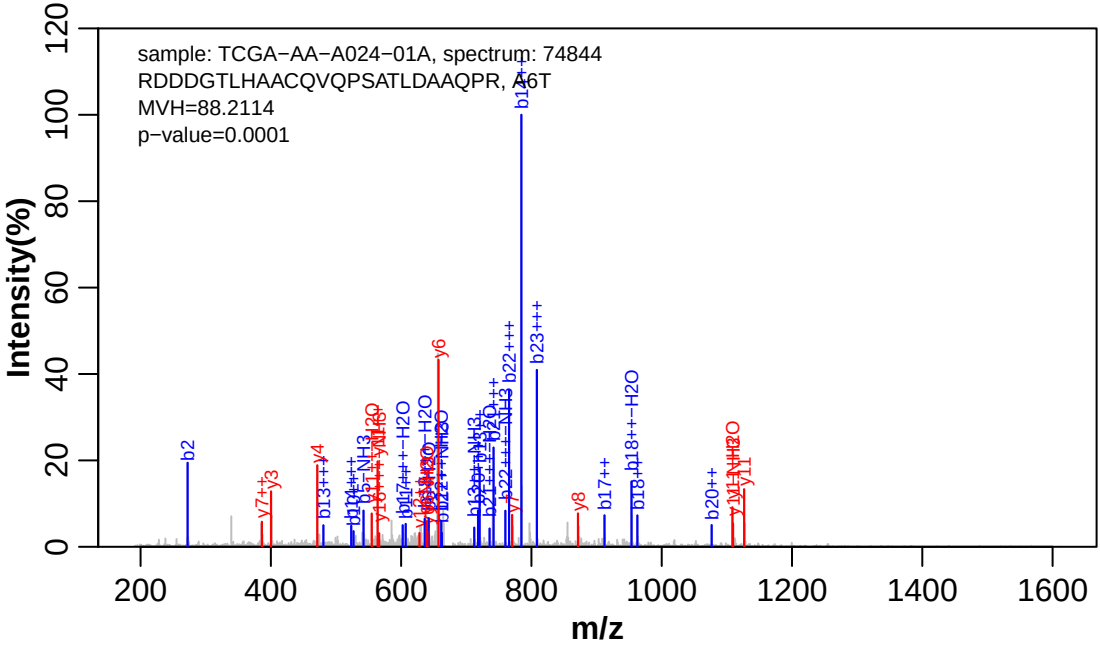

sample: TCGA−AA−A024−01A, spectrum: 23572
MQYAPNTQVELLPQGR, H16R
MVH=60.4230
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y7
y8
y10
y12
y13
y14
b3
b4−NH3
b4
b7
b10
b11
b12
b12−NH3

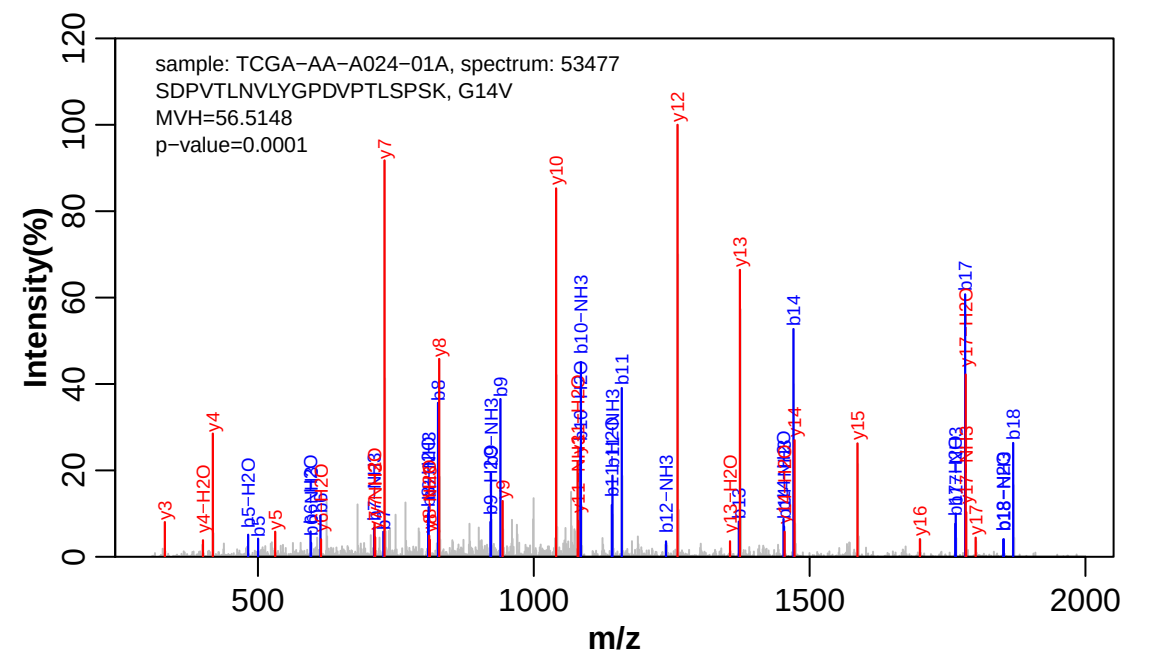

sample: TCGA−AA−A024−01A, spectrum: 59209
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=46.6754
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y7++
y18++
y16++
y17++
b17++
b19++
b12
b13
b12++−H2O
b13++−H2O

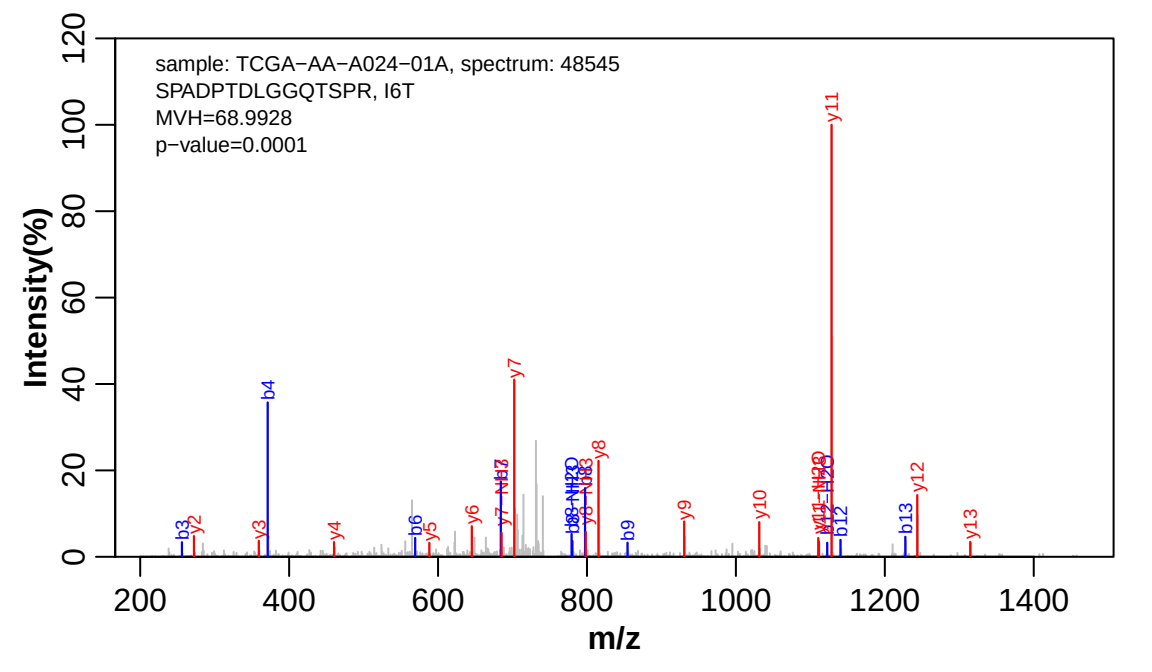

sample: TCGA−AA−A024−01A, spectrum: 55982
NTNSVPETAPAALPETR, K17R
MVH=49.1296
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y12
y8
y4
y5
y2
y10
b12
b13
b9−NH3
b5
y9

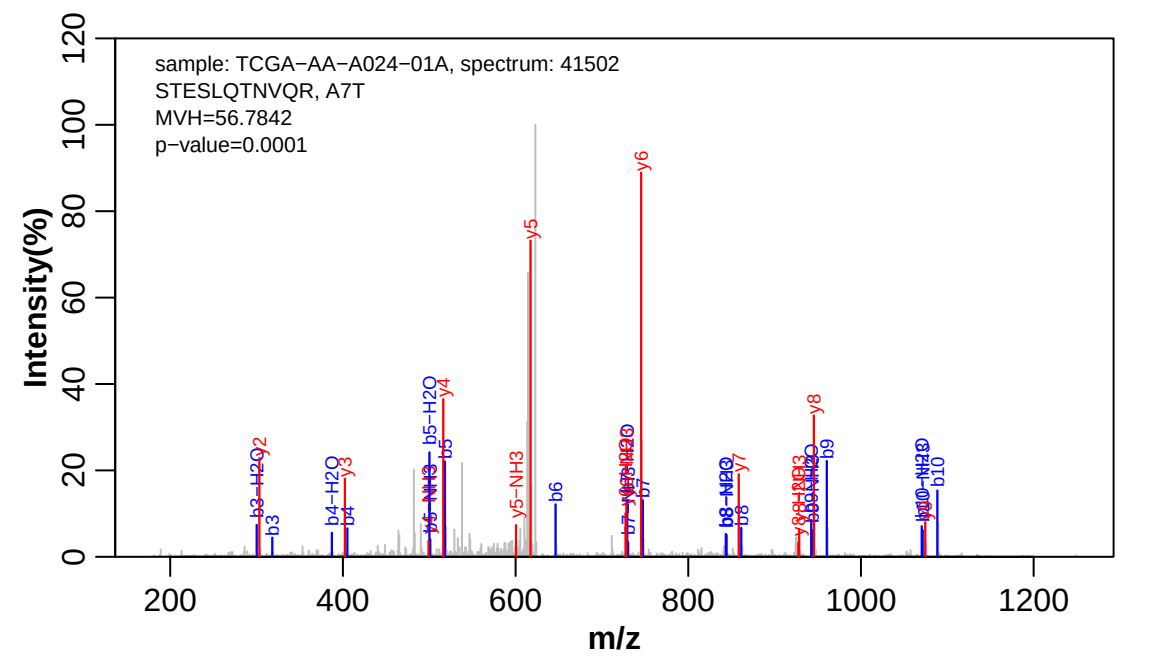

sample: TCGA−AA−A024−01A, spectrum: 57788
NTVLATWQPYSTSK, T11S
MVH=49.8289
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y9
y8
y10
y11
y7
b3−H2O
b3
y4
b5−H2O
b5
b6−H2O
b6
b7−NH3−H2O
b7
b8−NH3−H2O
b8
y12−NH3
y12
b10

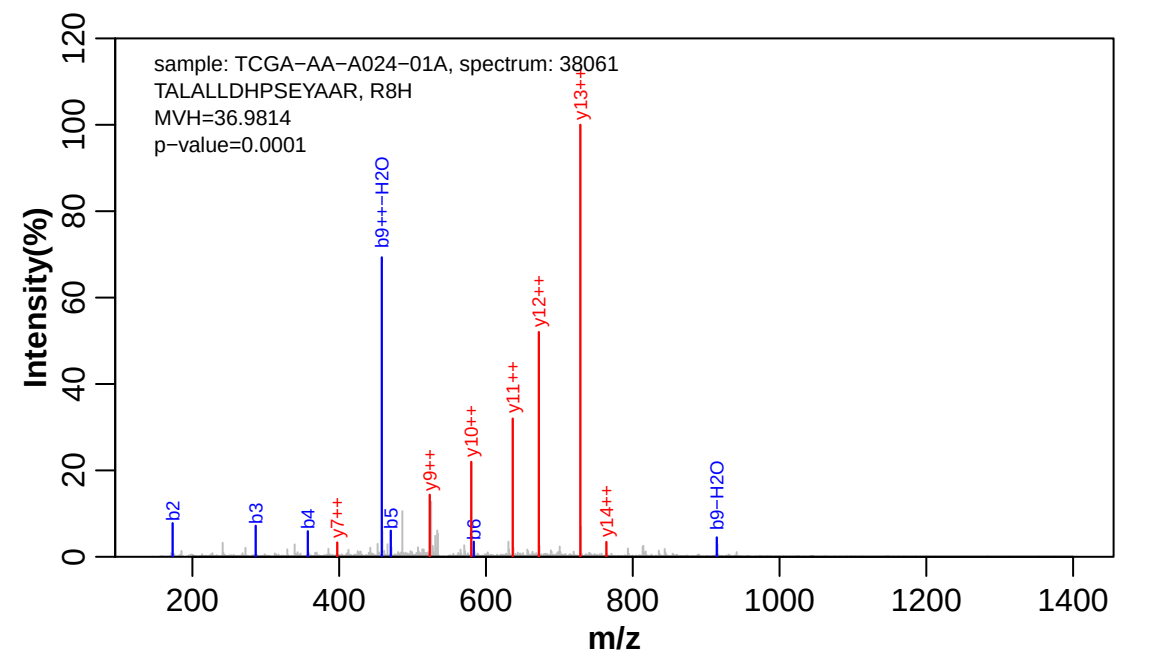

sample: TCGA−AA−A024−01A, spectrum: 1337
NVSPVALPR, N3S
MVH=39.8083
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
b4−H2O
y6
b7
y7

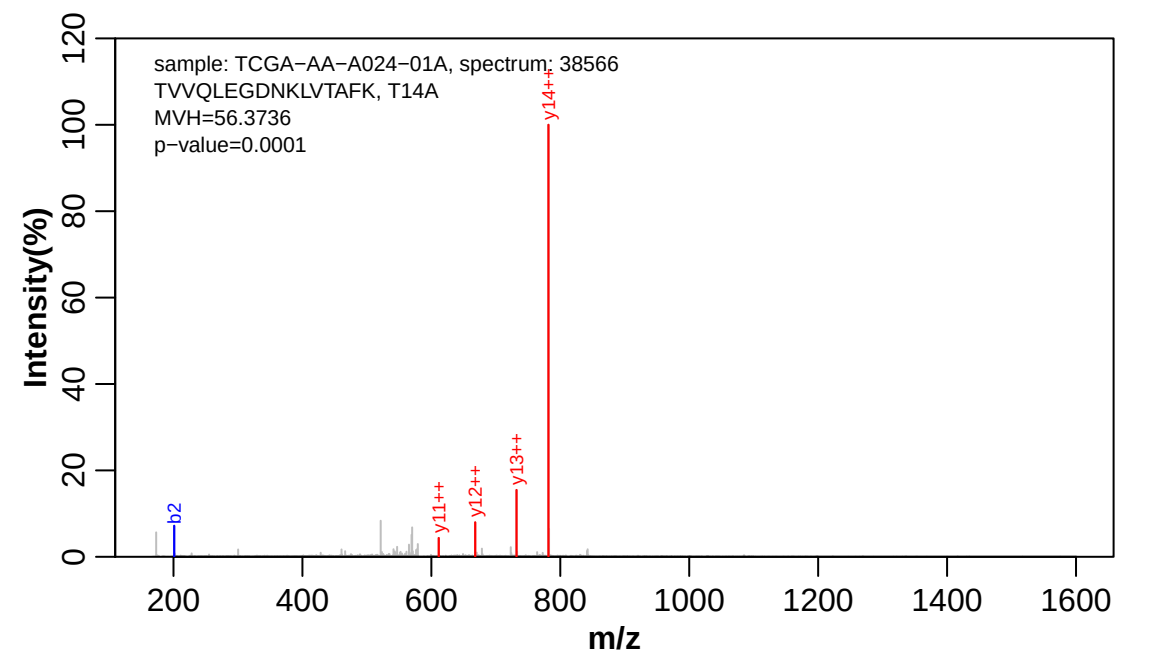

sample: TCGA−AA−A024−01A, spectrum: 74844
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=88.2114
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y7++
y3
b13+++
y4
b17+++−H2O
b23+++
y6
b22+++
b18++−H2O
y8
b17++
b20++
y11

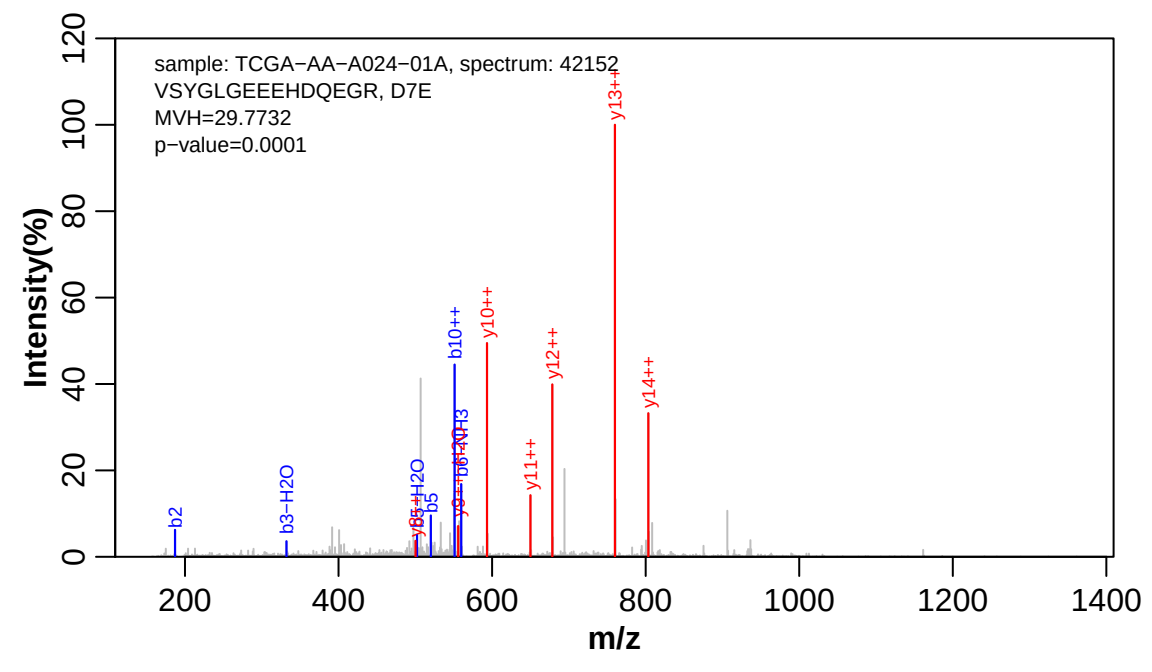

sample: TCGA−AA−A024−01A, spectrum: 53477
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=56.5148
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4−H2O
y4
b5−H2O
b5
y5
y7
y8
b8
b9−H2O−NH3
b9
y9
y10
b10−NH3
y12
b11
b12−NH3
y13
y13−H2O
b14
y14
y15
y16
y17−H2O
b17
y17−NH3
y17
b18−NH3
b18

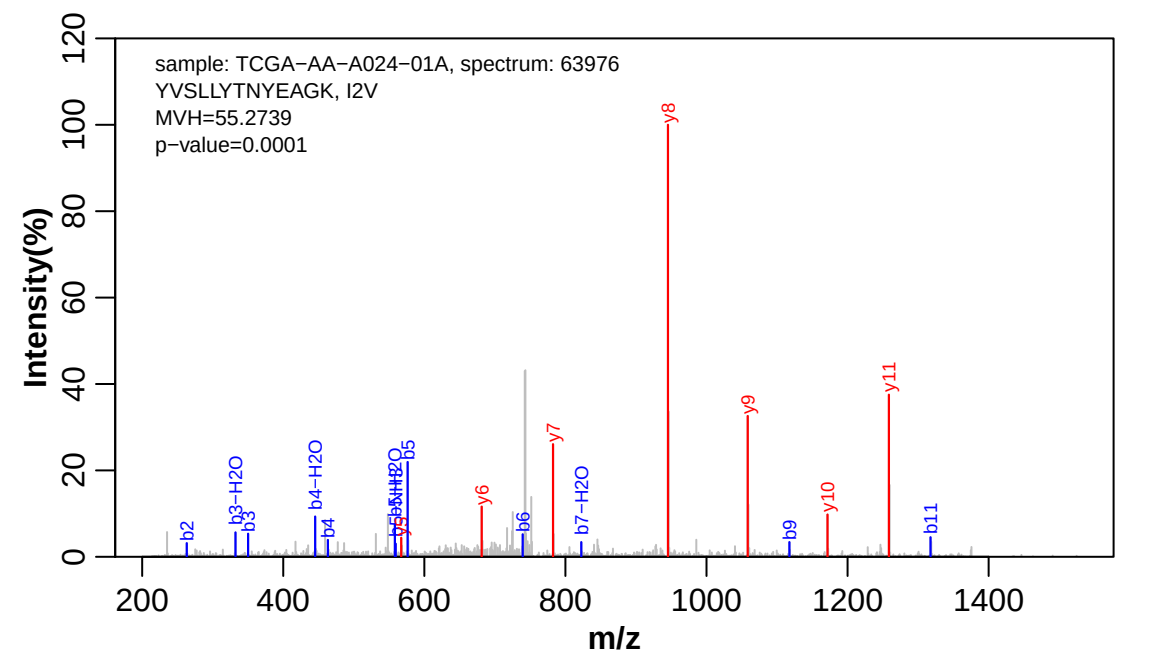

sample: TCGA−AA−A024−01A, spectrum: 48545
SPADPTDLGGQTSPR, I6T
MVH=68.9928
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
y7
y7-NH3
y7
b8-NH3
b8-H2O
y8-NH3
y8
y8
b9
y9
y10
y11-NH3
y11-H2O
y11
b12
y11
b13
y12
y13

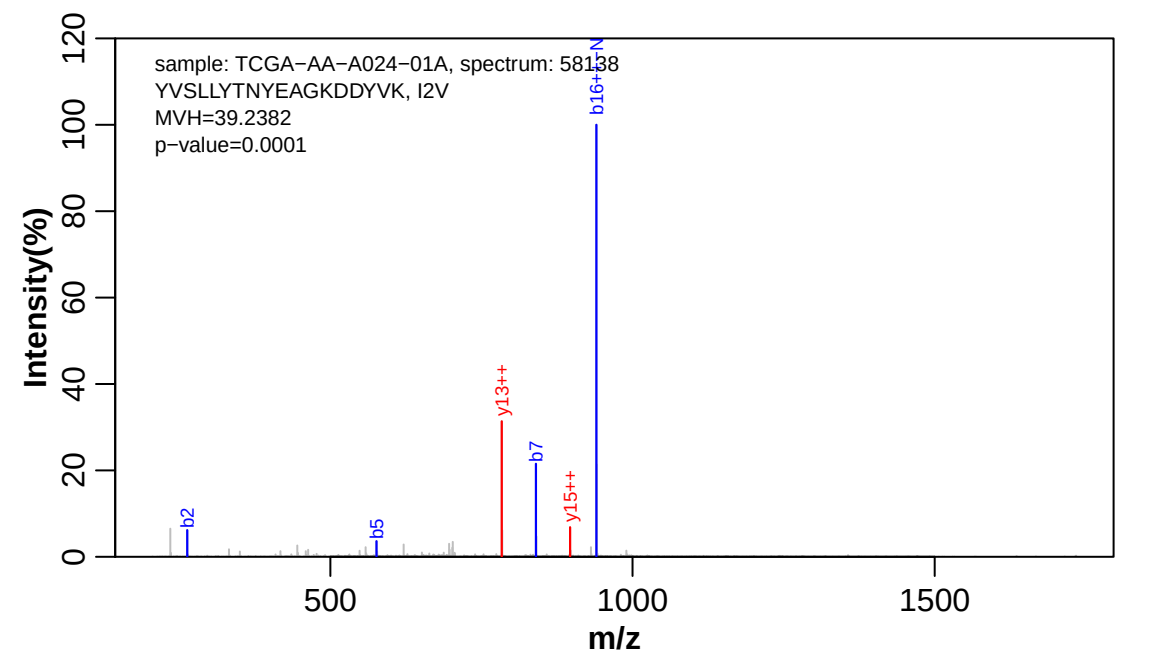

sample: TCGA−AA−A024−01A, spectrum: 41502
STESLQTNVQR, A7T
MVH=56.7842
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y8
y4
y2
y3
y7
b9
b10
b6
b5
b3
b4
b8
y5−NH3
b5−H2O
b4−H2O
b3−H2O

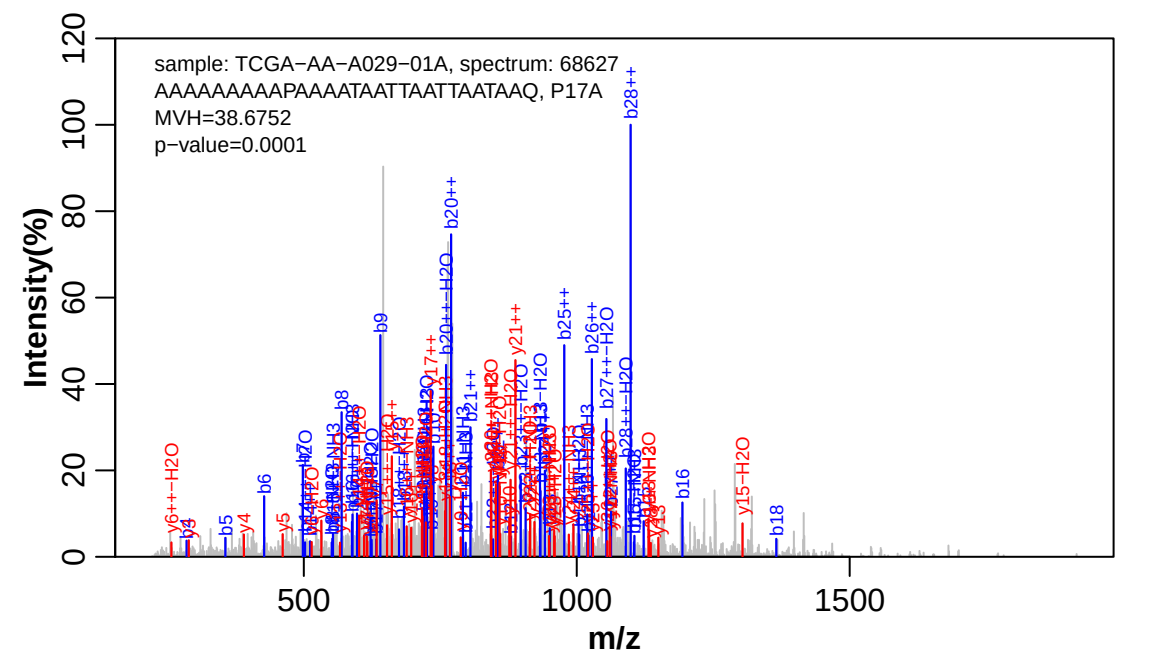

sample: TCGA−AA−A024−01A, spectrum: 38061
TALALLDHPSEYAAR, R8H
MVH=36.9814
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
b4
y7++
b5
b9++−H2O
y9++
b6
y10++
y11++
y12++
y13++
y14++
b9−H2O

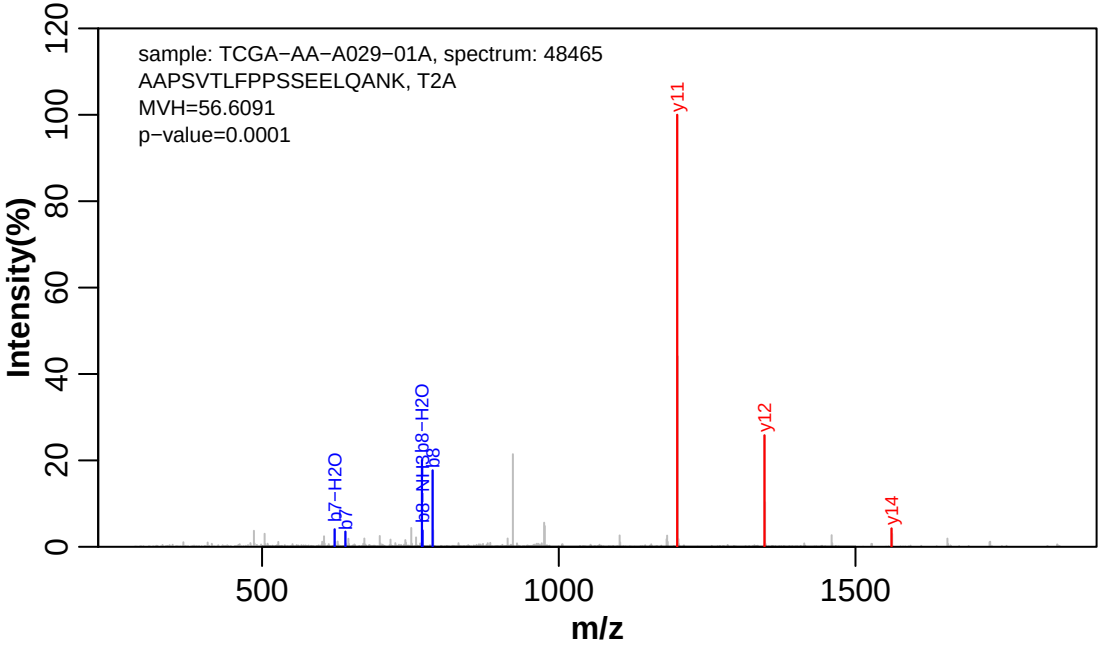

sample: TCGA−AA−A024−01A, spectrum: 38566
TVVQLEGDNKLVTAFK, T14A
MVH=56.3736
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

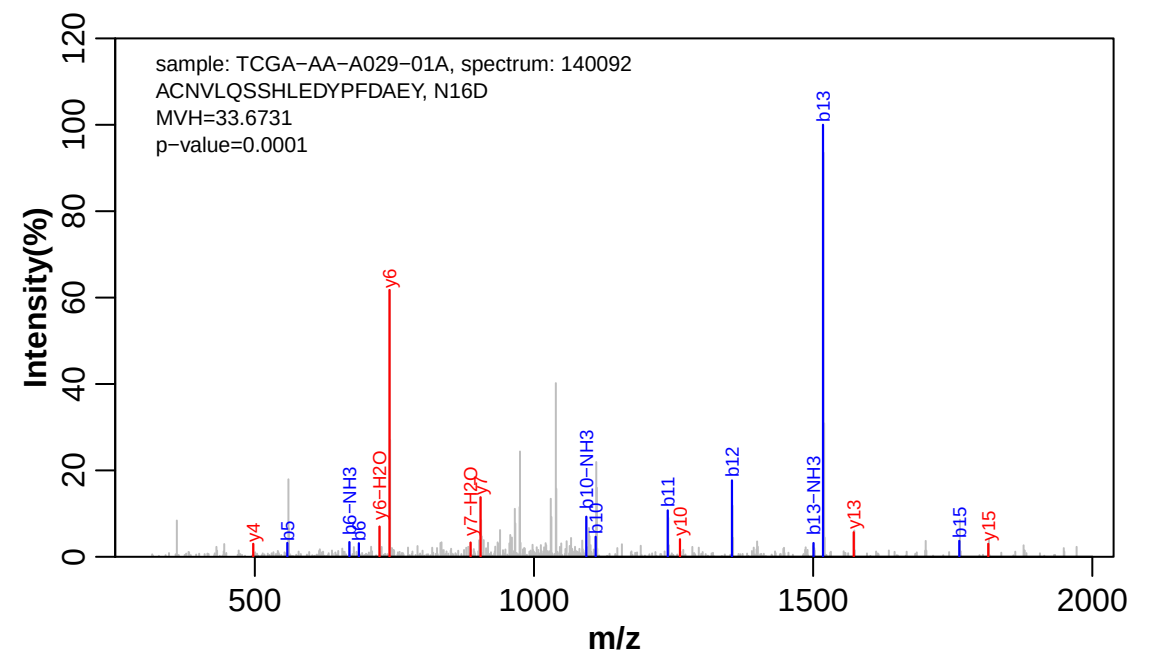

sample: TCGA−AA−A024−01A, spectrum: 42152
VSYGLGEEEHDQEGR, D7E
MVH=29.7732
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
y8++H2O
b5
y8++
b6−H2O
b10++
y10++
y11++
y12++
y13++
y14++

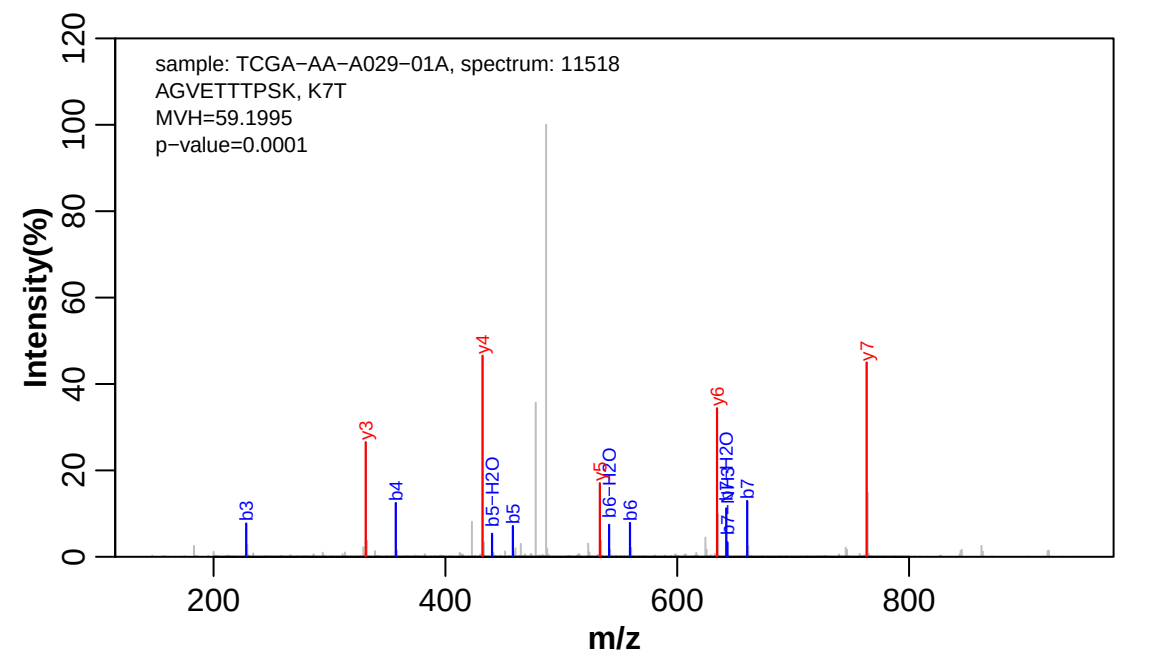

sample: TCGA−AA−A024−01A, spectrum: 63976
YVSLLYTNYEAGK, I2V
MVH=55.2739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b3
b4−H2O
b4
b5
y6
y7
b6
b7−H2O
y8
y9
b9
y10
y11
b11

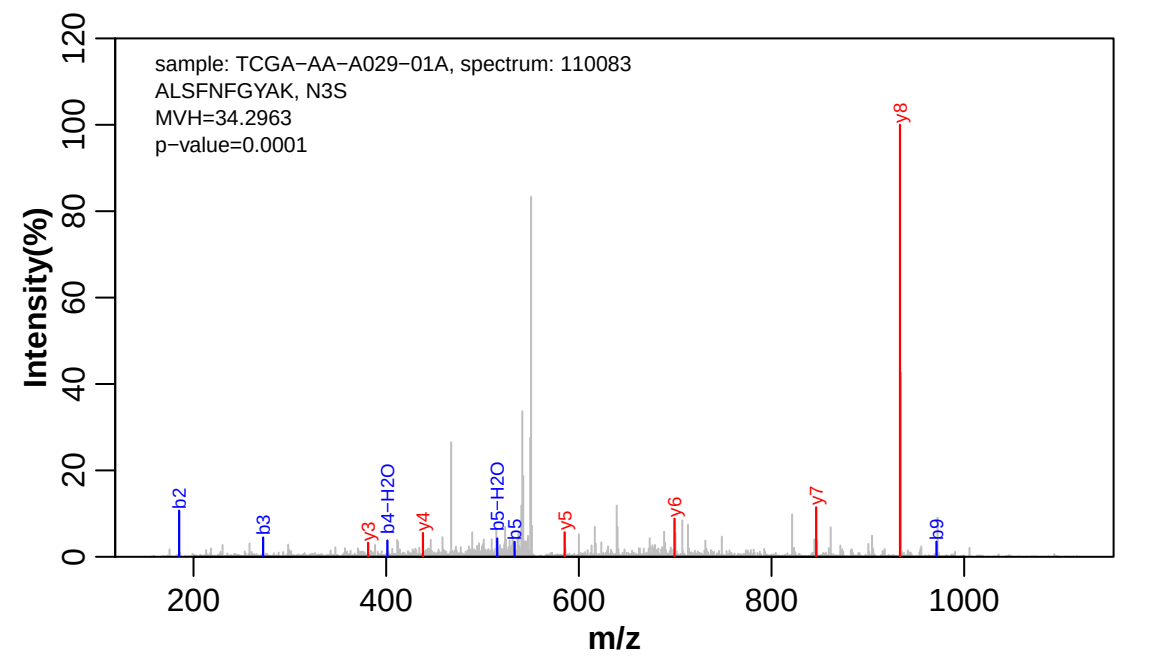

sample: TCGA−AA−A024−01A, spectrum: 58138
YVSLLYTNYEAGKDDYVK, I2V
MVH=39.2382
p−value=0.0001
b16++-N
y13++
b7
y15++
b2
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

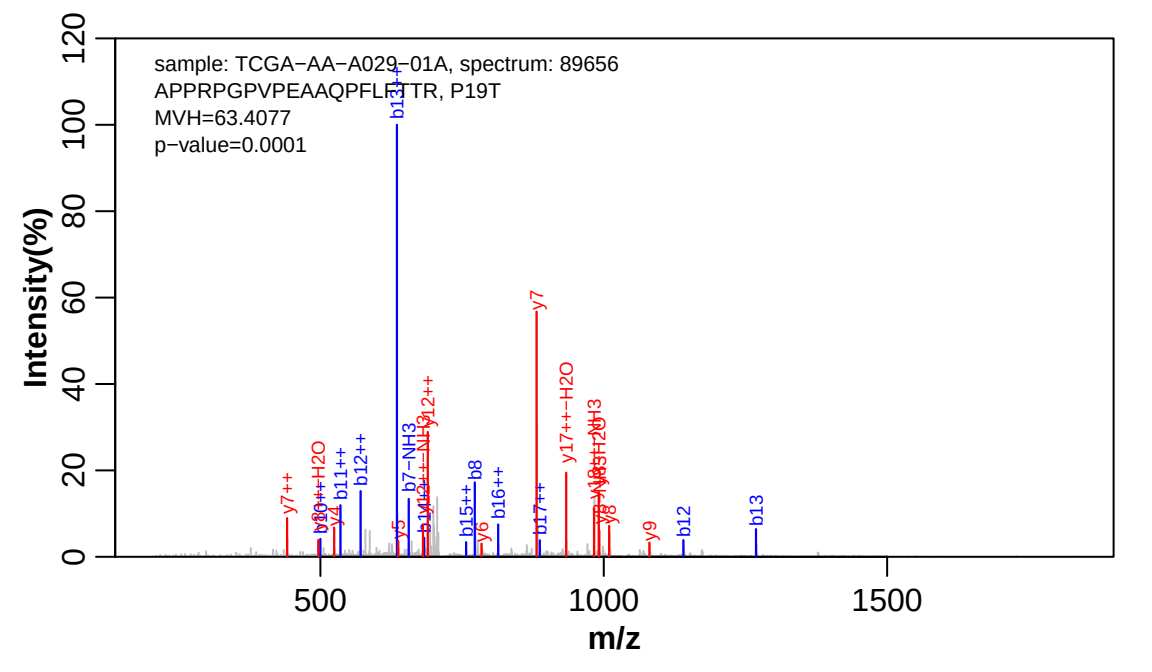

sample: TCGA−AA−A029−01A, spectrum: 68627
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=38.6752
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++
b20++−H2O
b9
b25++
b26++
b27++−H2O
b28++−H2O
y21++
y21++−H2O
b16
y15−H2O
b18
b6
y5
b5
y4
y6++−H2O

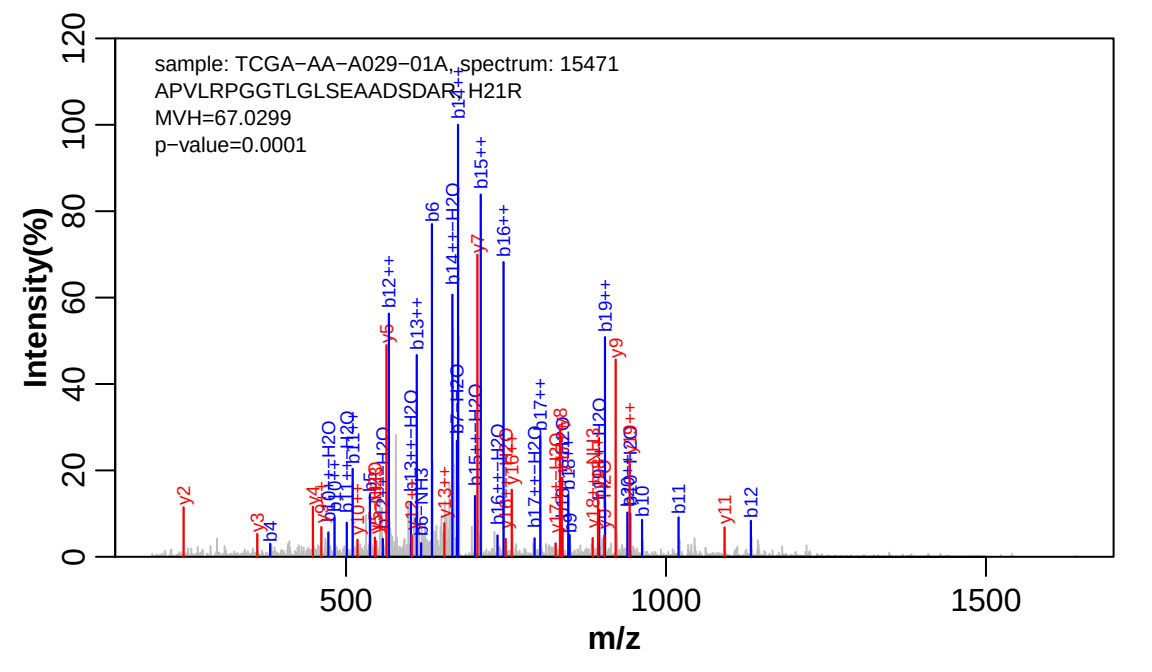

sample: TCGA−AA−A029−01A, spectrum: 48465
AAPSVTLFPPSSEELQANK, T2A
MVH=56.6091
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

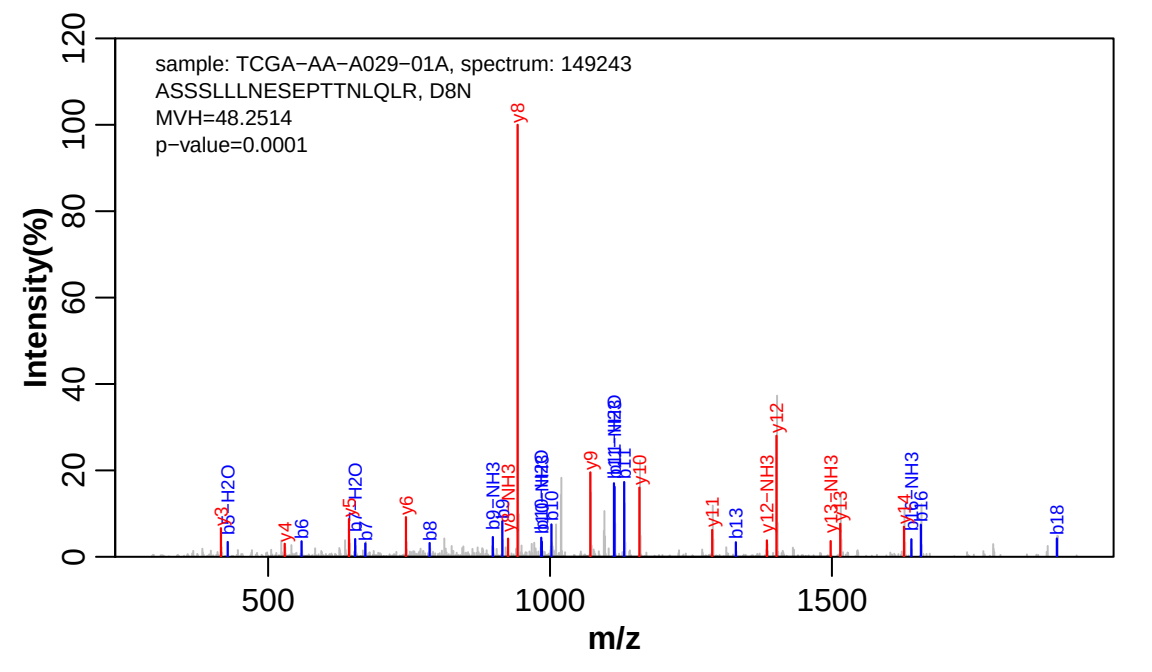

sample: TCGA−AA−A029−01A, spectrum: 140092
ACNVLQSSHLEDYPFDAEY, N16D
MVH=33.6731
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−NH3
b6
y6−H2O
y6
y7−H2O
y7
b10−NH3
b10
b11
y10
b12
b13−NH3
b13
y13
b15
y15

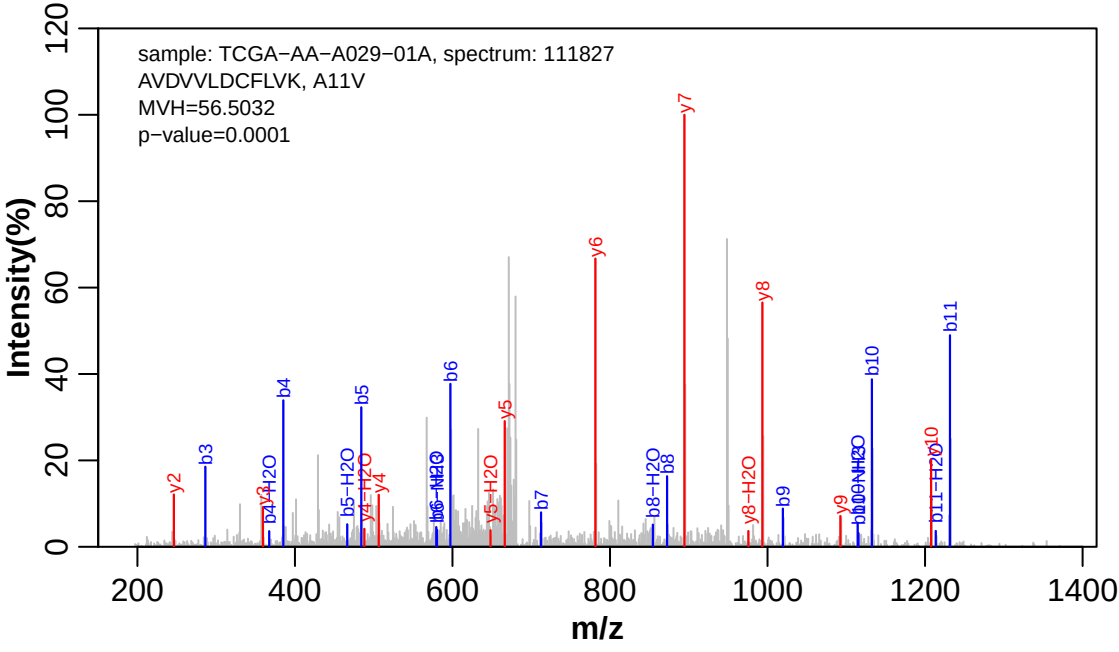

sample: TCGA−AA−A029−01A, spectrum: 11518
AGVETTTPSK, K7T
MVH=59.1995
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7

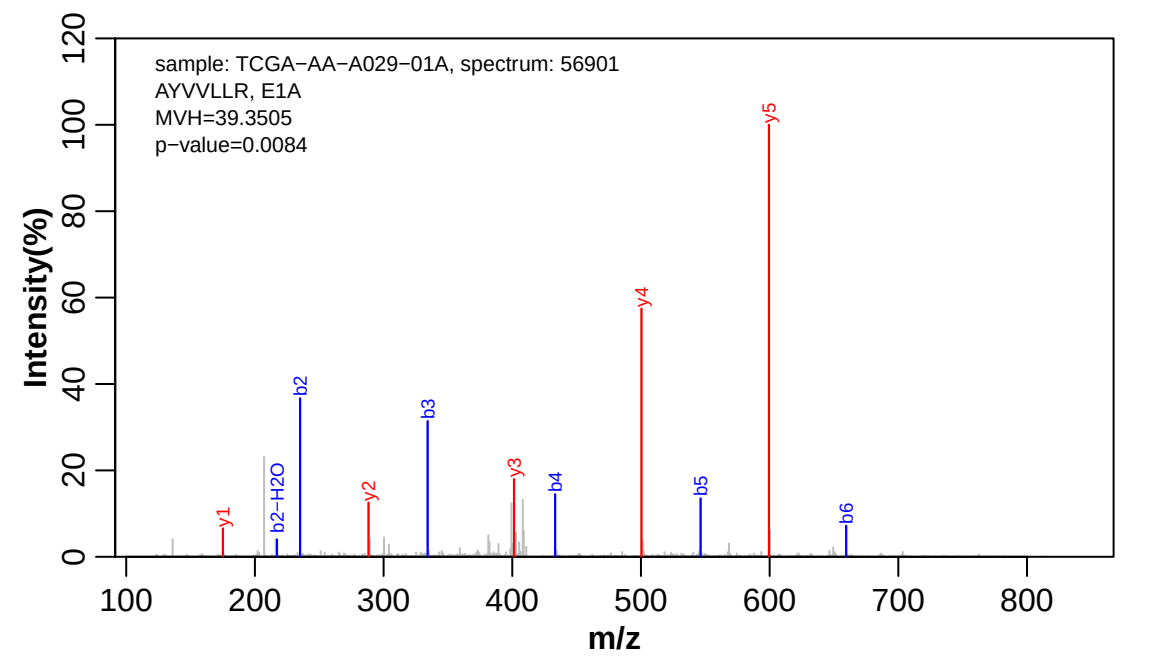

sample: TCGA−AA−A029−01A, spectrum: 110083
ALSFNFGYAK, N3S
MVH=34.2963
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
y6
y7
y8
b9

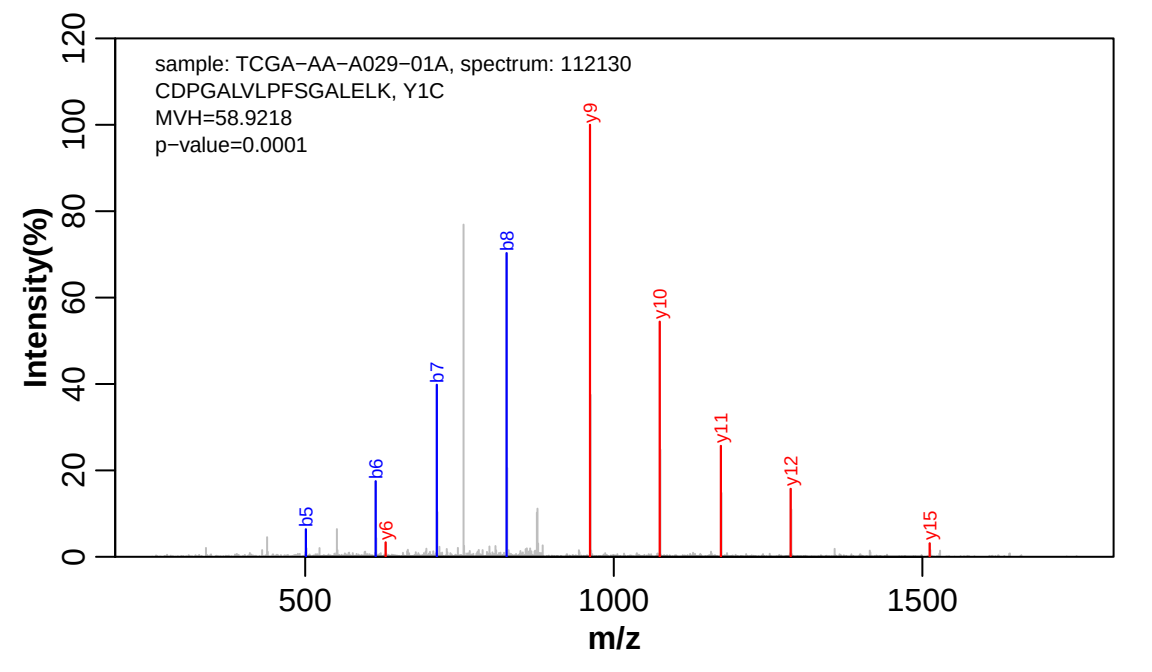

sample: TCGA−AA−A029−01A, spectrum: 89656
APPRPGPVPEAAQPFLFTTR, P19T
MVH=63.4077
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
y7
y7++
y17++−H2O
b7−NH3
y12++
b8
b15++
b16++
y6
b17++
y9
b12
b13
b12++
b11++
y5

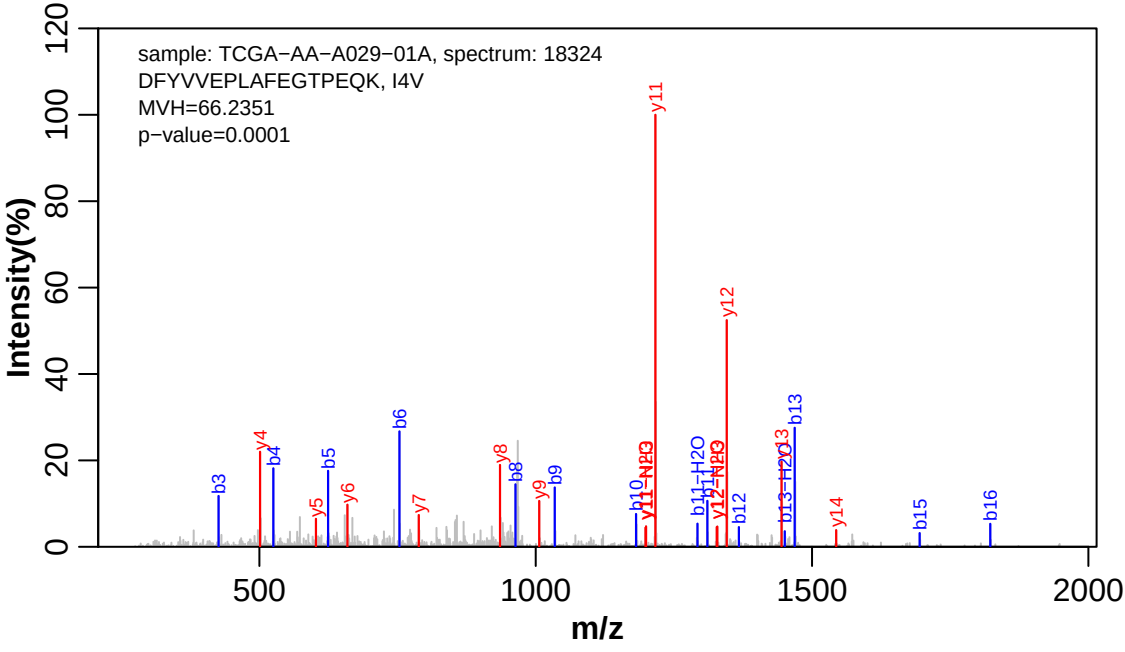

sample: TCGA−AA−A029−01A, spectrum: 15471
APVLRPGGTLGLSEAADSDAR+H21R
MVH=67.0299
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
b4
y4
b5
b5−H2O
b5−NH3
y5
b6
b6−H2O
b6−NH3
y6
b7
b7−H2O
b7−NH3
y7
b8
b8−H2O
b8−NH3
y8
b9
b9−H2O
b9−NH3
y9
b10
b10−H2O
b10−NH3
y10
b11
b11−H2O
b11−NH3
y11
b12
b12−H2O
b12−NH3
y12
b13
b13−H2O
b13−NH3
y13
b14
b14−H2O
b14−NH3
y14
b15
b15−H2O
b15−NH3
y15
b16
b16−H2O
b16−NH3
y16
b17
b17−H2O
b17−NH3
y17
b18
b18−H2O
b18−NH3
y18
b19
b19−H2O
b19−NH3
y19
b20
b20−H2O
b20−NH3
y20

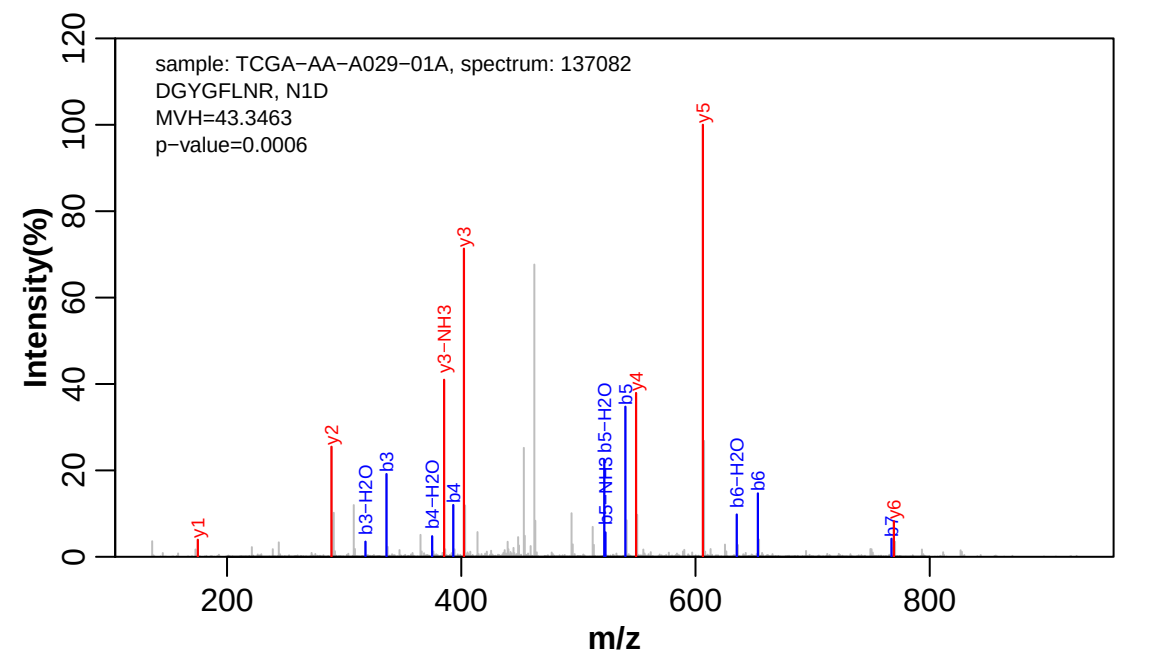

sample: TCGA−AA−A029−01A, spectrum: 149243
ASSSLLLNESEPTTNLQLR, D8N
MVH=48.2514
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y11
y12
y12−NH3
y13
y13−NH3
y14
y6
y5
y5−H2O
y4
y3
y3−H2O
b18
b16
b16−NH3
b13
b8
b8−NH3
b7
b6
b5

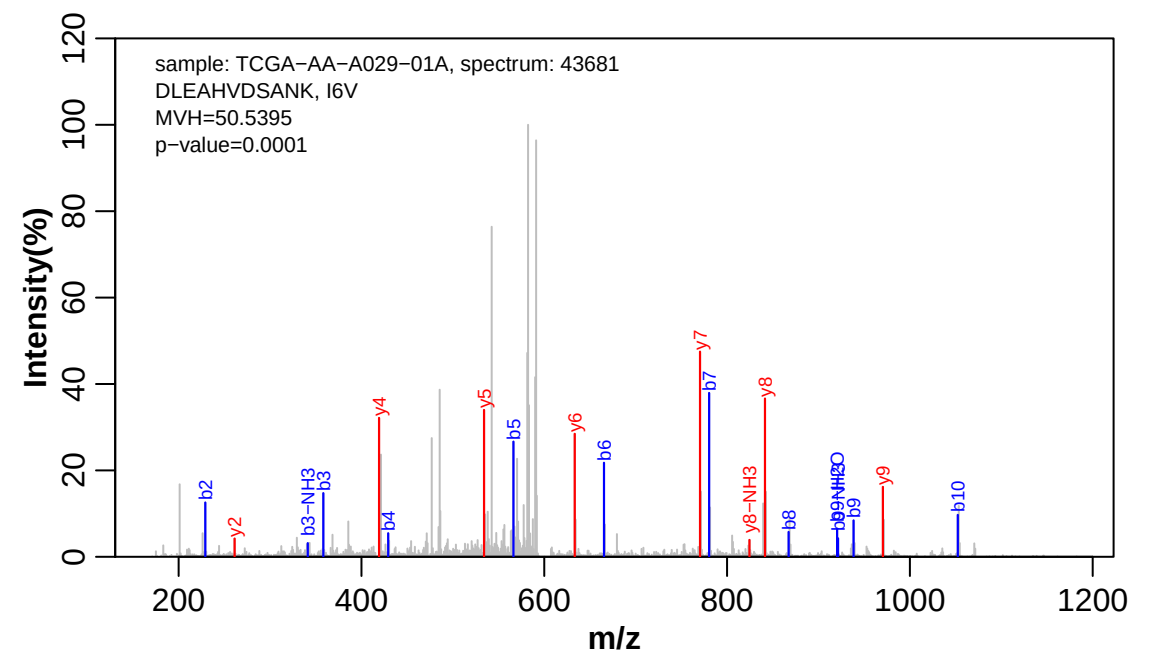

sample: TCGA−AA−A029−01A, spectrum: 111827
AVDVVLDCFLVK, A11V
MVH=56.5032
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
b4
y3
b4−H2O
b5
b5−H2O
y4
y4−H2O
b6
b6−NH3
b6−H2O
y5
y5−H2O
b7
y6
b8
b8−H2O
y7
y8
y8−H2O
b9
y9
b10
b10−NH3
b10−H2O
y10
b11
b11−H2O

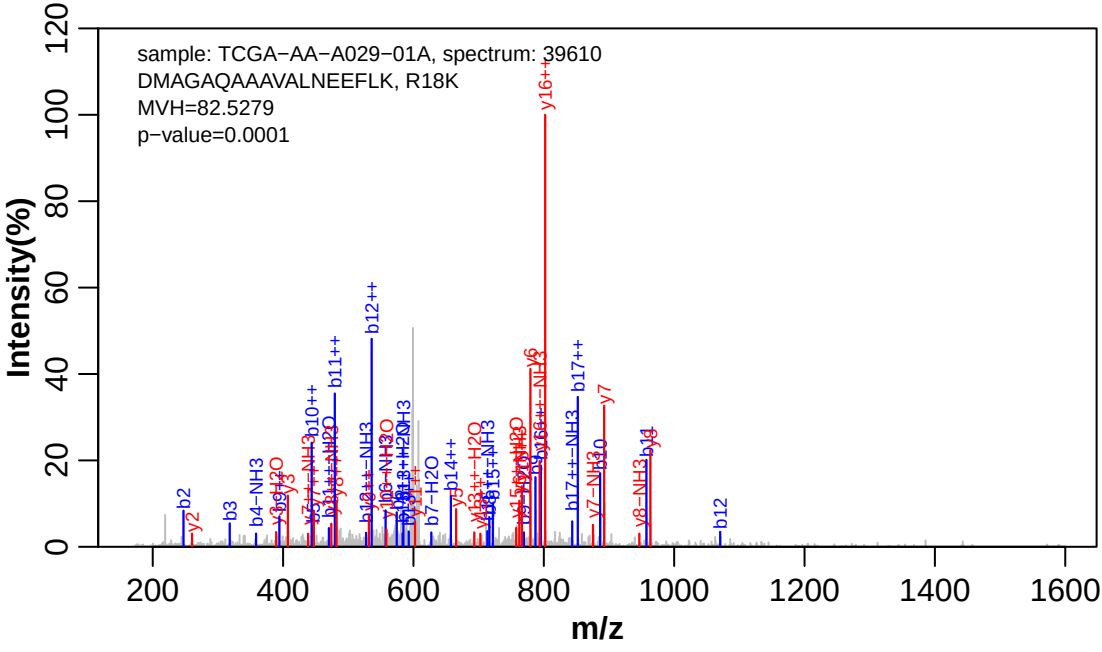

sample: TCGA−AA−A029−01A, spectrum: 56901
AYVVLLR, E1A
MVH=39.3505
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

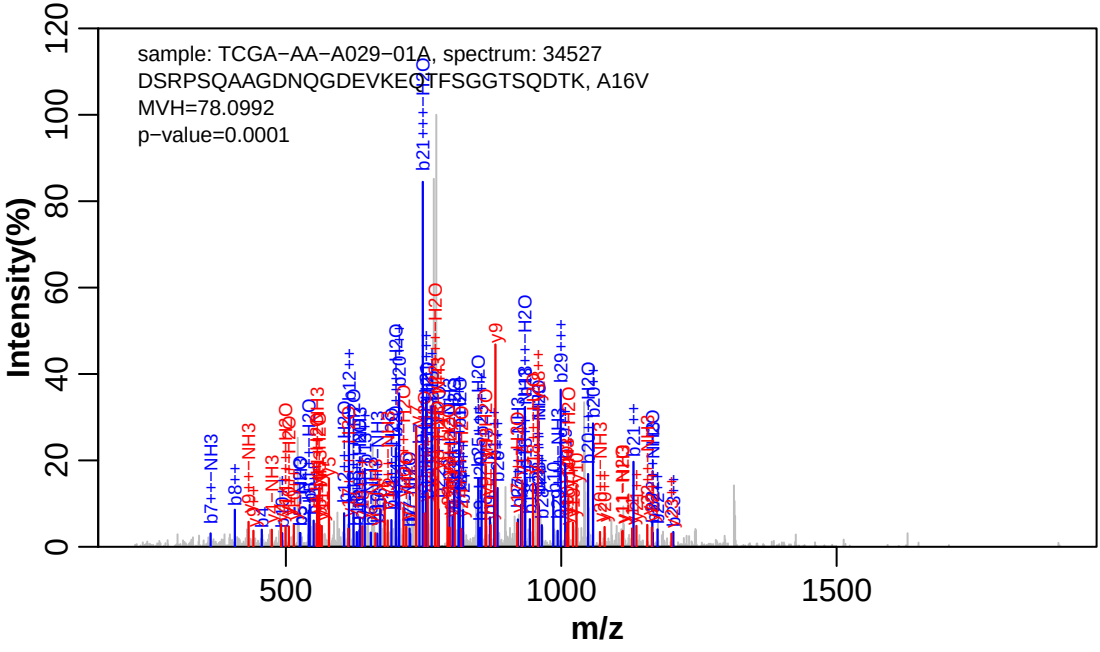

sample: TCGA−AA−A029−01A, spectrum: 112130
CDPGALVLPFSGALELK, Y1C
MVH=58.9218
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
y6
b6
b7
b8
y9
y10
y11
y12
y15

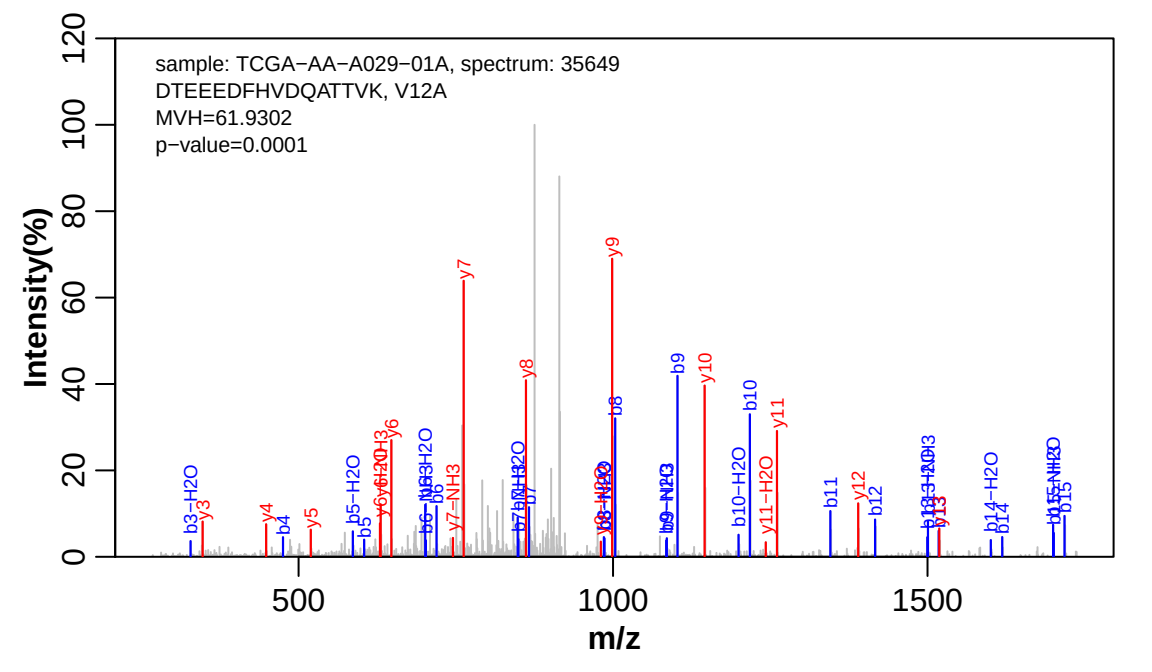

sample: TCGA−AA−A029−01A, spectrum: 18324
DFYVVEPLAFEGTPEQK, I4V
MVH=66.2351
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6
b6
y7
y8
b8
y9
b9
b10
y11
b11−H2O
b11
y12
b12
b13−H2O
b13
y14
b15
b16
y11
y12

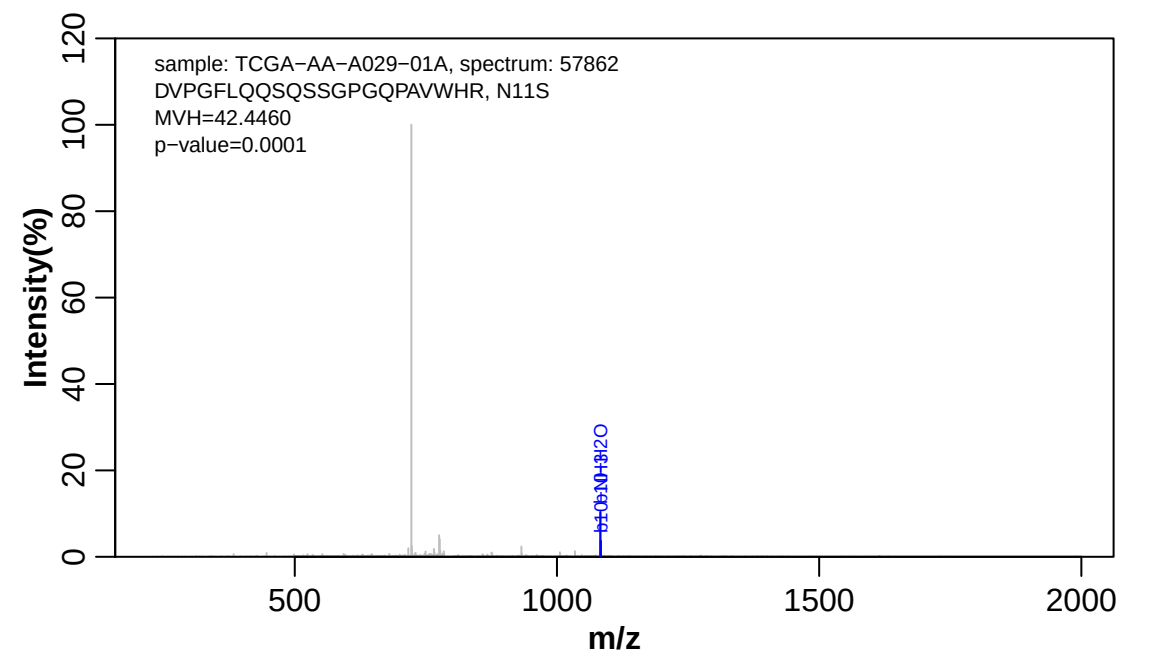

sample: TCGA−AA−A029−01A, spectrum: 137082
DGYGFLNR, N1D
MVH=43.3463
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

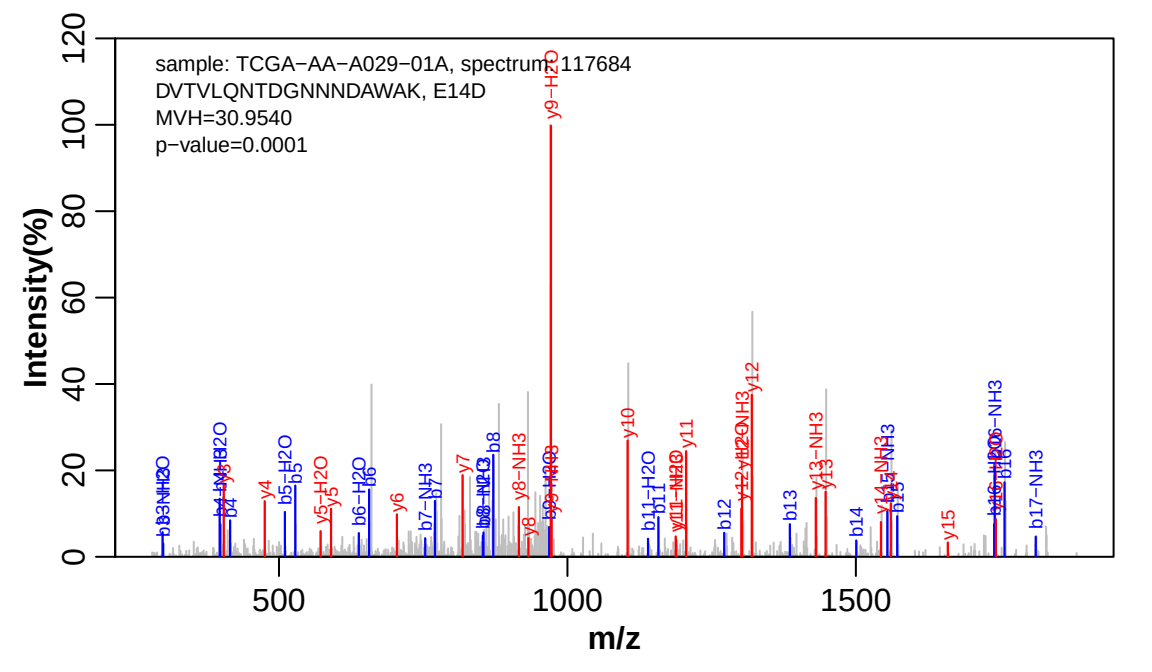

sample: TCGA−AA−A029−01A, spectrum: 43681
DLEAHVDSANK, I6V
MVH=50.5395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−NH3
b3
y4
b4
y5
b5
y6
b6
y7
b7
y8
y8−NH3
b8
b9
y9
b10

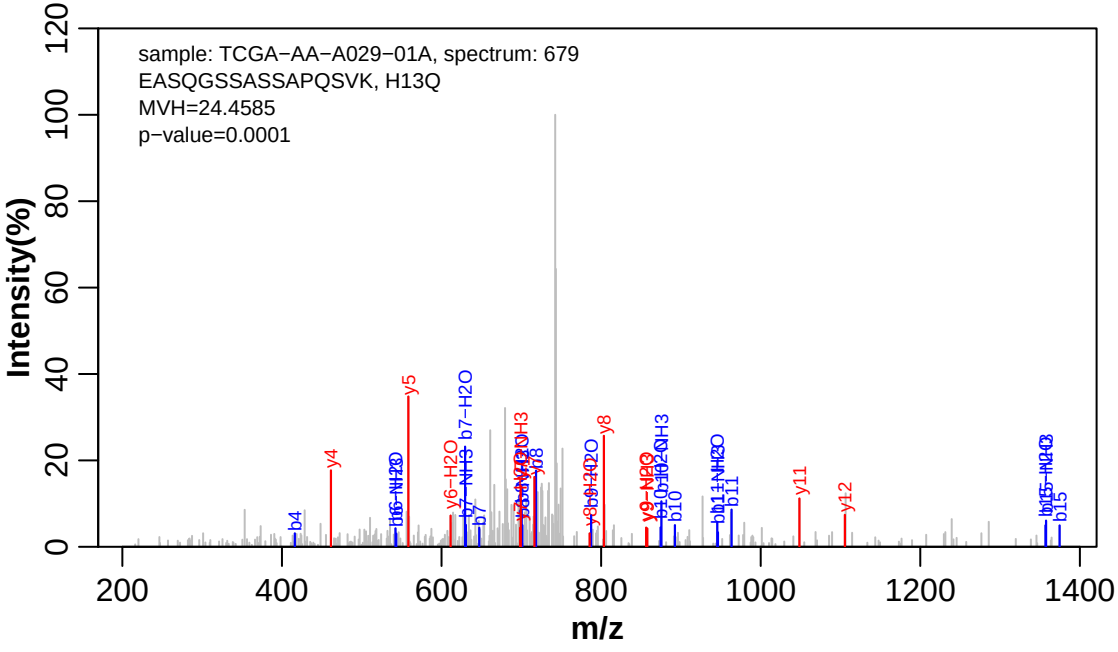

sample: TCGA−AA−A029−01A, spectrum: 39610
DMAGAQAAAVALNEEFLK, R18K
MVH=82.5279
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y16++
b12++
b11++
b17++
y7
y8
b12
b2
y2
b3
b4−NH3
y3
b7−H2O
b14++
y6
b17++−NH3
y7−NH3
y8−NH3
b12

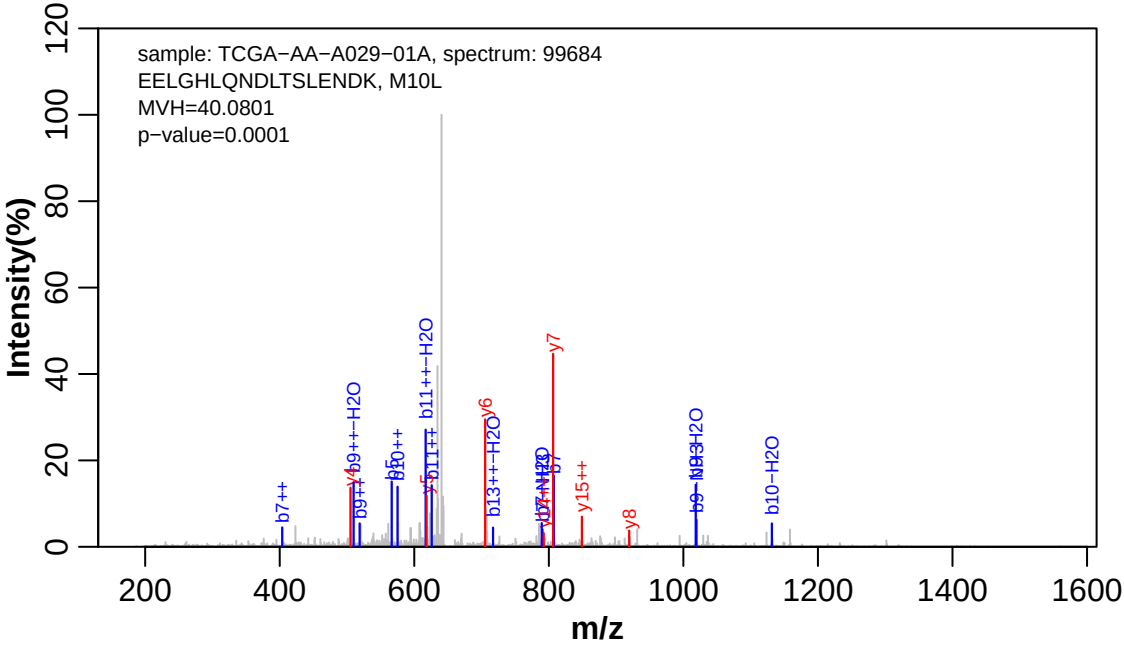

sample: TCGA−AA−A029−01A, spectrum: 34527
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=78.0992
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

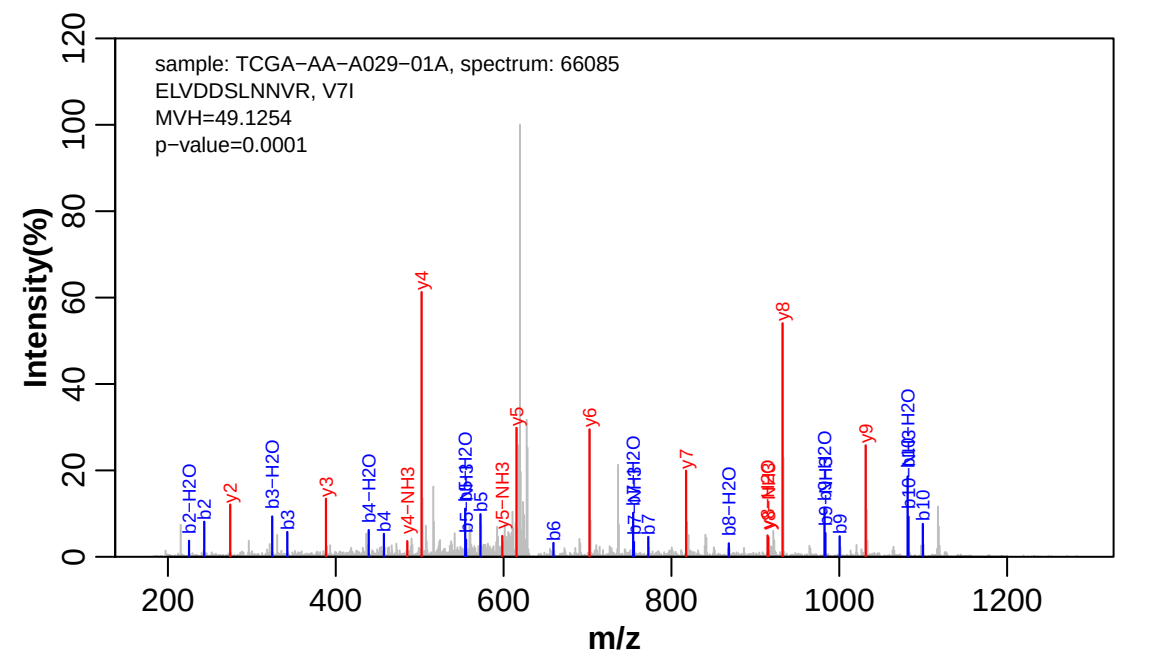

sample: TCGA−AA−A029−01A, spectrum: 35649
DTEEEDFHVDQATTVK, V12A
MVH=61.9302
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y4
b4
y5
b5−H2O
b5
y6
b6
y7−NH3
y7
y8
b7
b8
y9
b9
y10
b10
b10−H2O
y11−H2O
y11
b11
y12
b12
b14−H2O
b14
b15
y13

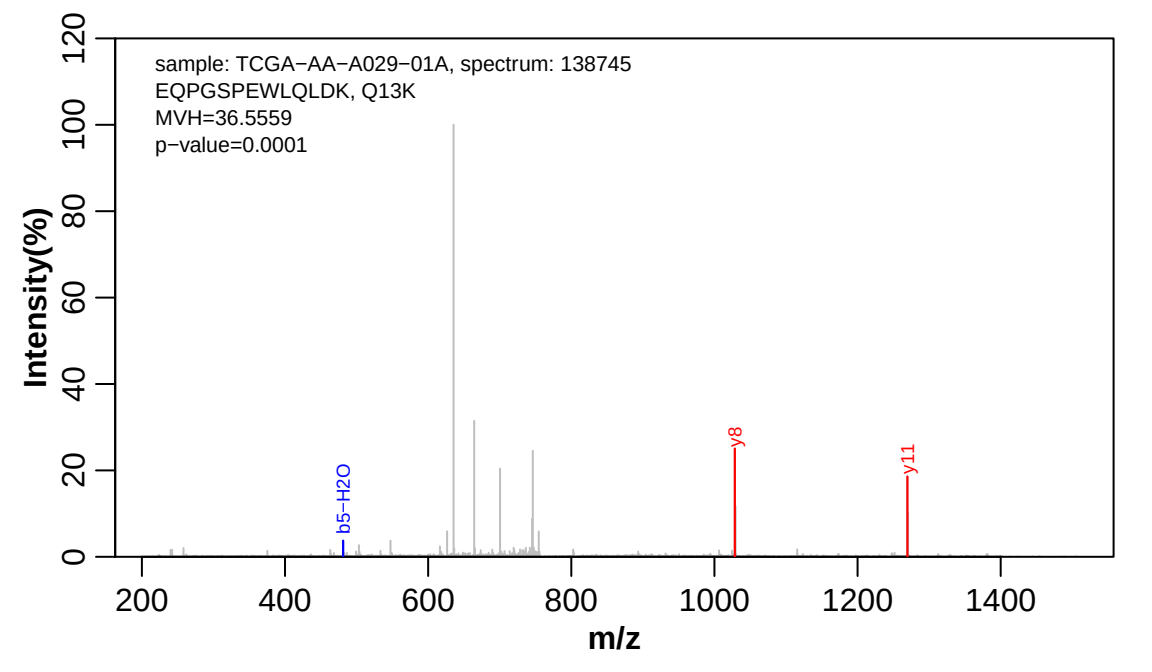

sample: TCGA−AA−A029−01A, spectrum: 57862
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=42.4460
p−value=0.0001
b10-NH3
b10-H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

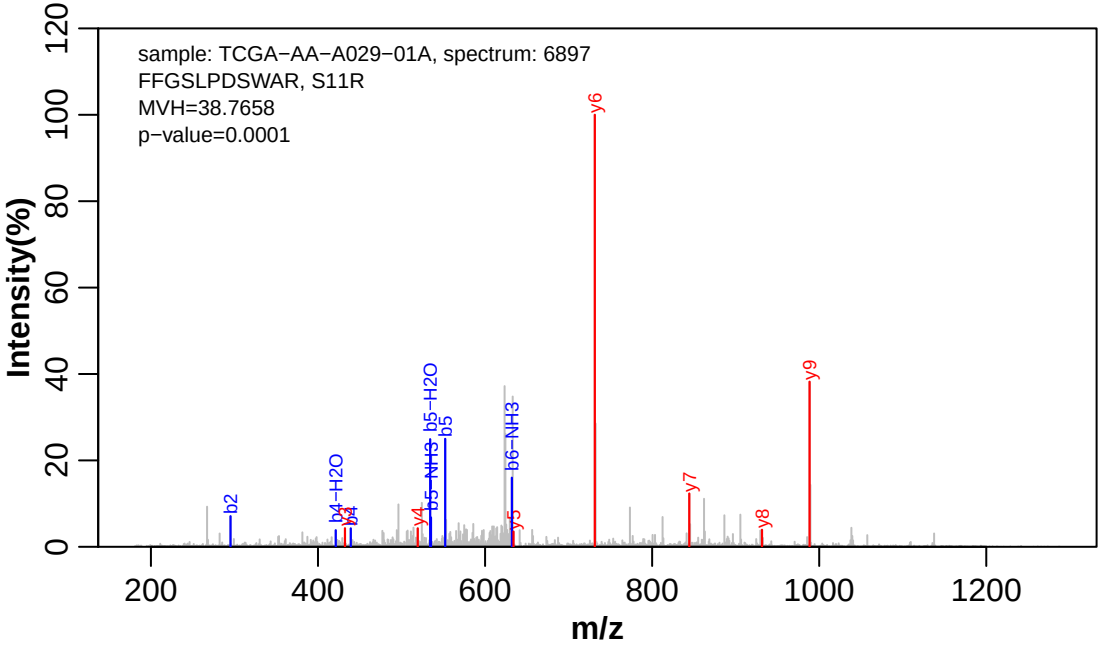

sample: TCGA−AA−A029−01A, spectrum: 117684
DVTVLQNTDGNNNDAWAK, E14D
MVH=30.9540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9−H2O
y10
y11
y12
y4
y5
y6
y7
y8
y8−NH3
y13
y15
b5
b6−H2O
b7−NH3
b8
b11−H2O
b12
b13
b14
b17−NH3

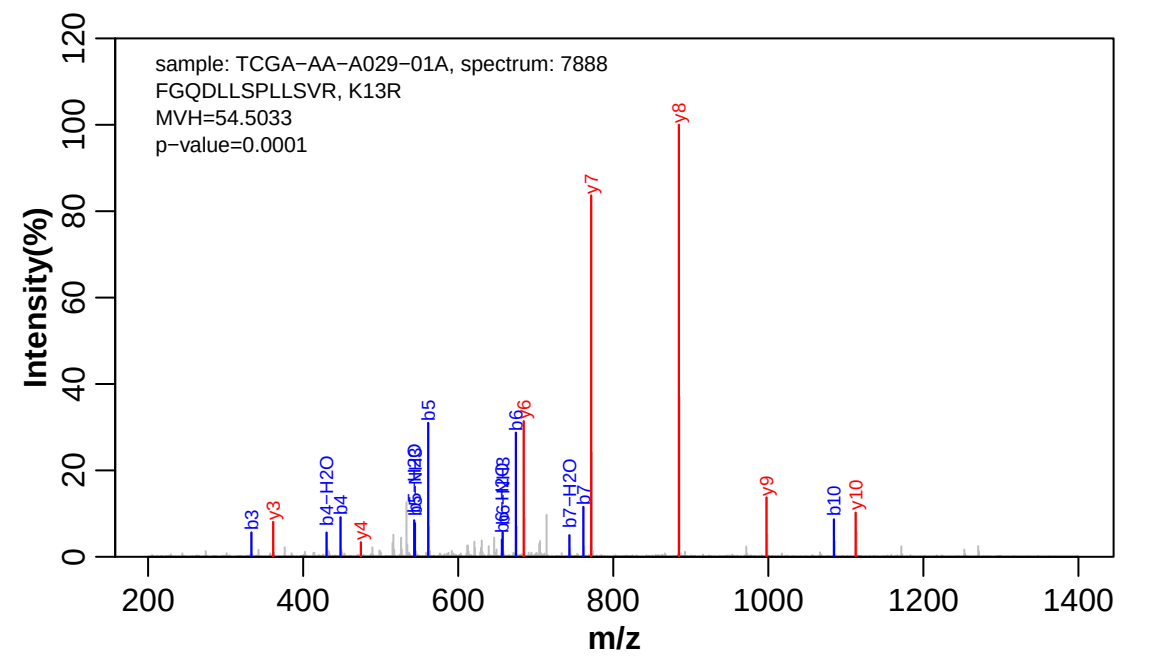

sample: TCGA−AA−A029−01A, spectrum: 679
EASQGSSASSAPQSVK, H13Q
MVH=24.4585
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y4
y5
y6−H2O
b7−NH3
b7
y8
b10
y11
y12
b15

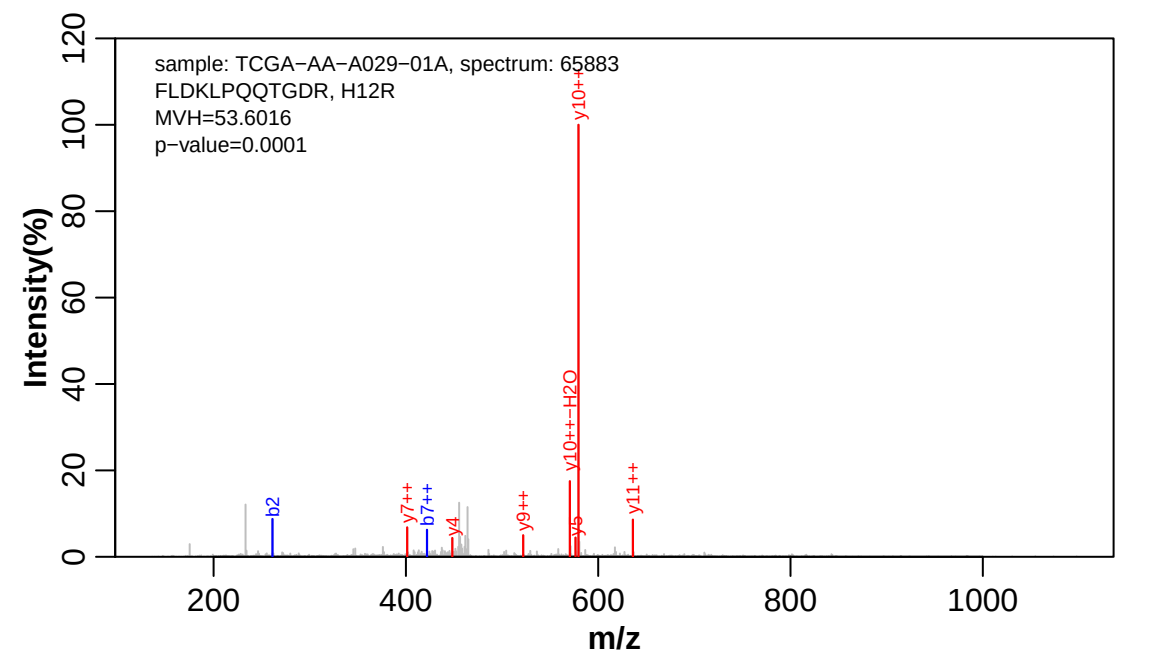

sample: TCGA−AA−A029−01A, spectrum: 99684
EELGHLQNDLTSLENDK, M10L
MVH=40.0801
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7++
b9++−H2O
y4
b9++
b10++
y5
b11++
b11++−H2O
b13++−H2O
y6
y7
y15++
y8
b9−NH3
b9−H2O
b10−H2O

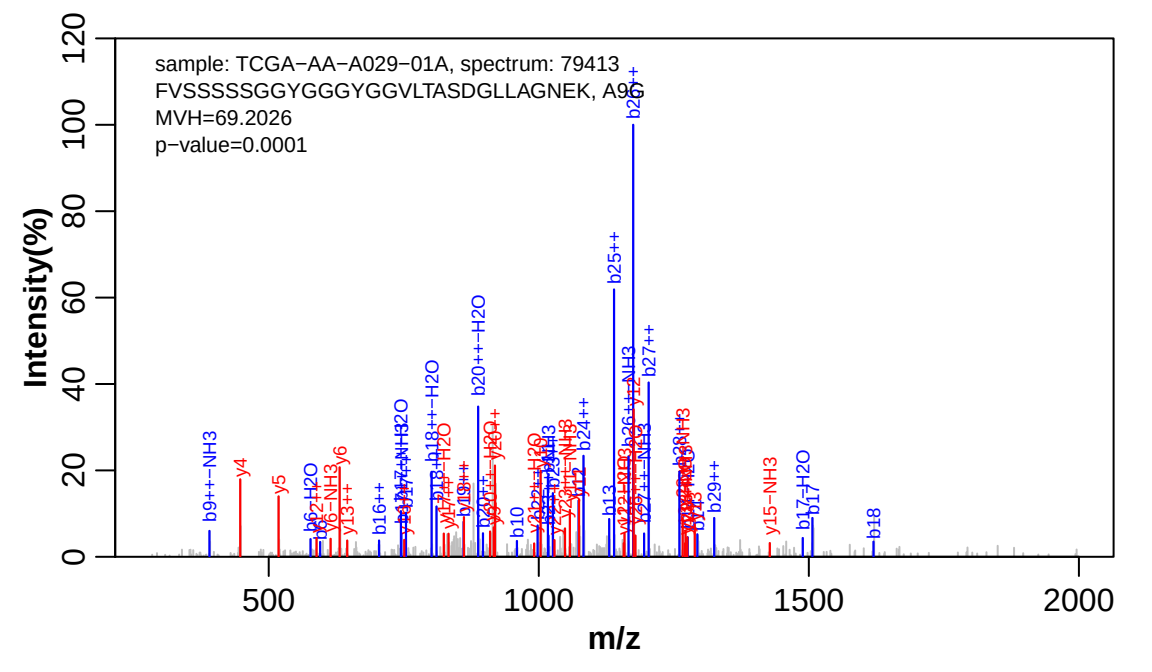

sample: TCGA−AA−A029−01A, spectrum: 66085
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5−NH3
y5
b6
y6
b7−H2O
b7
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

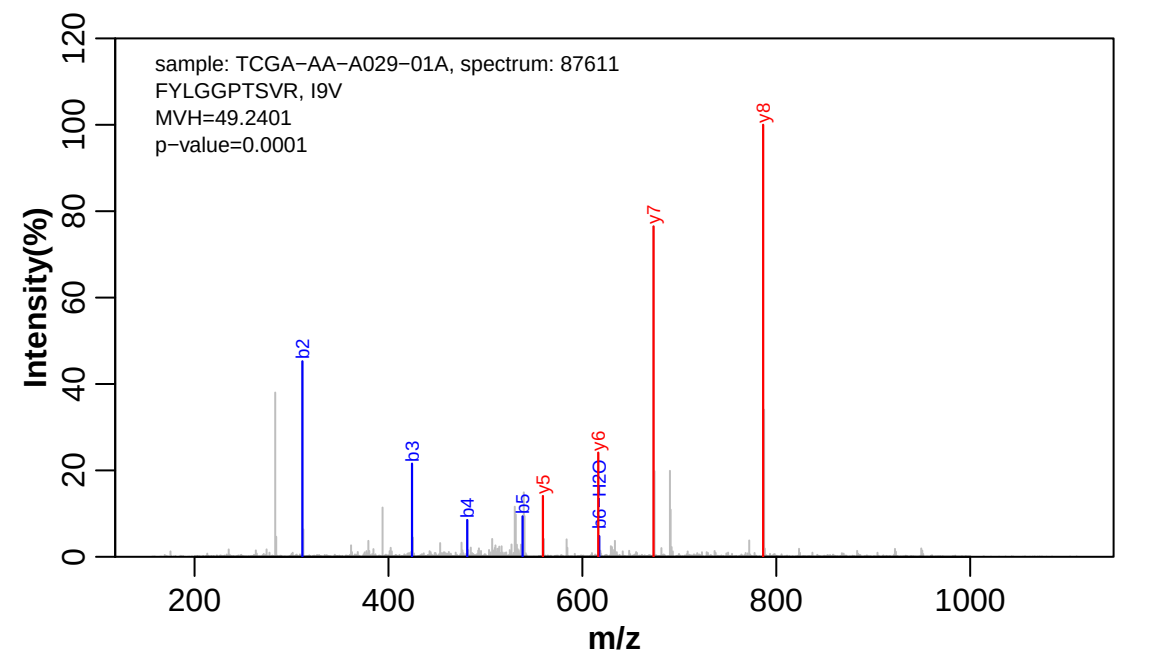

sample: TCGA−AA−A029−01A, spectrum: 138745
EQPGSPEWLQLDK, Q13K
MVH=36.5559
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y8
y11

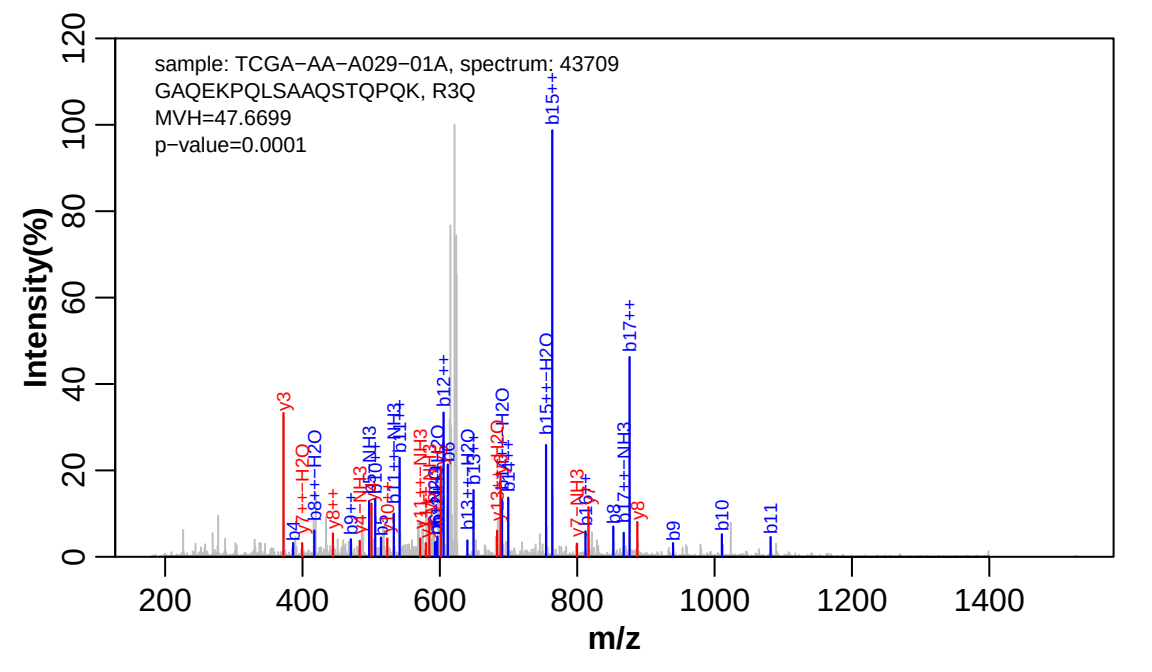

sample: TCGA−AA−A029−01A, spectrum: 6897
FFGSLPDSWAR, S11R
MVH=38.7658
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
y6
y7
y8
y9

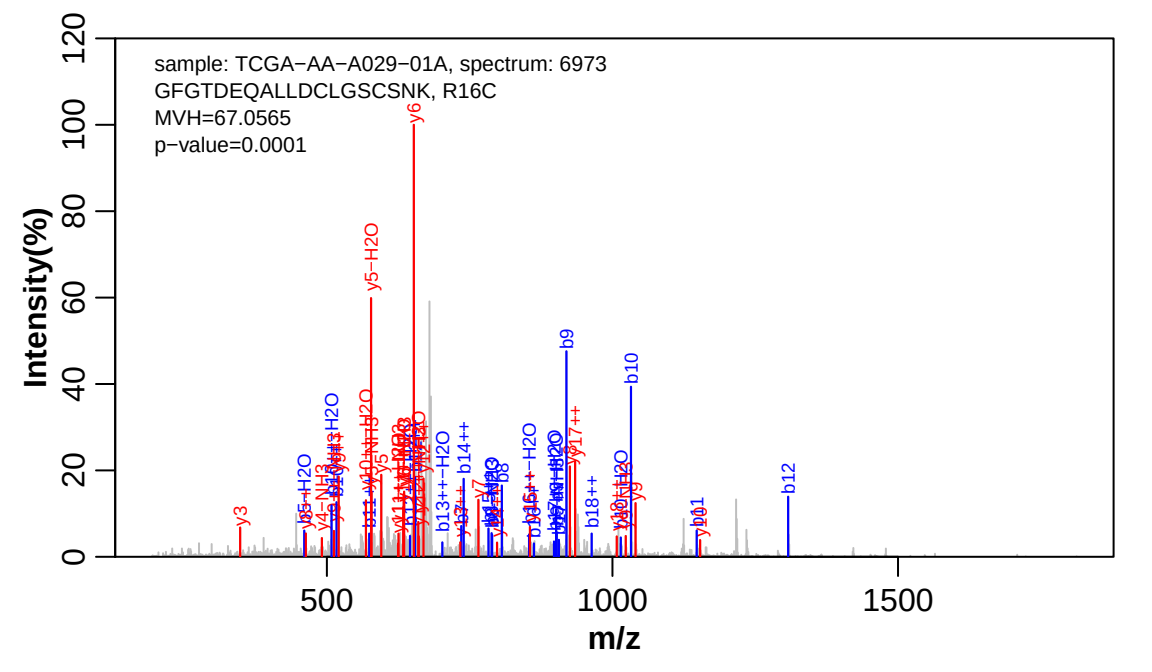

sample: TCGA−AA−A029−01A, spectrum: 7888
FGQDLLSPLLSVR, K13R
MVH=54.5033
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

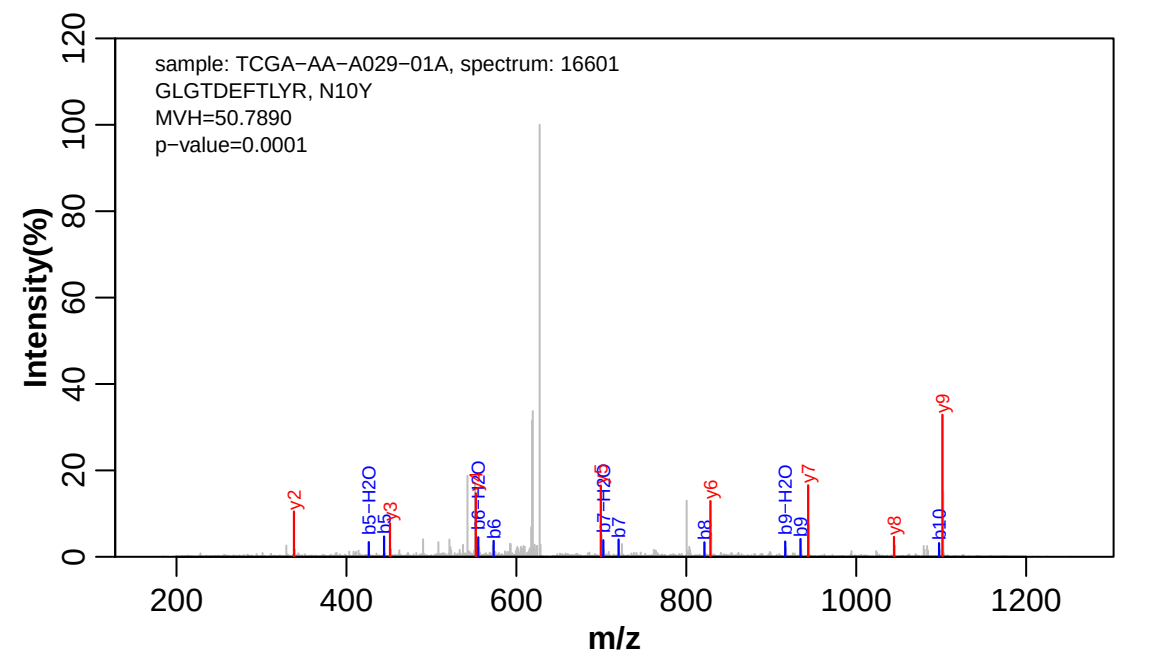

sample: TCGA−AA−A029−01A, spectrum: 65883
FLDKLPQQTGDR, H12R
MVH=53.6016
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

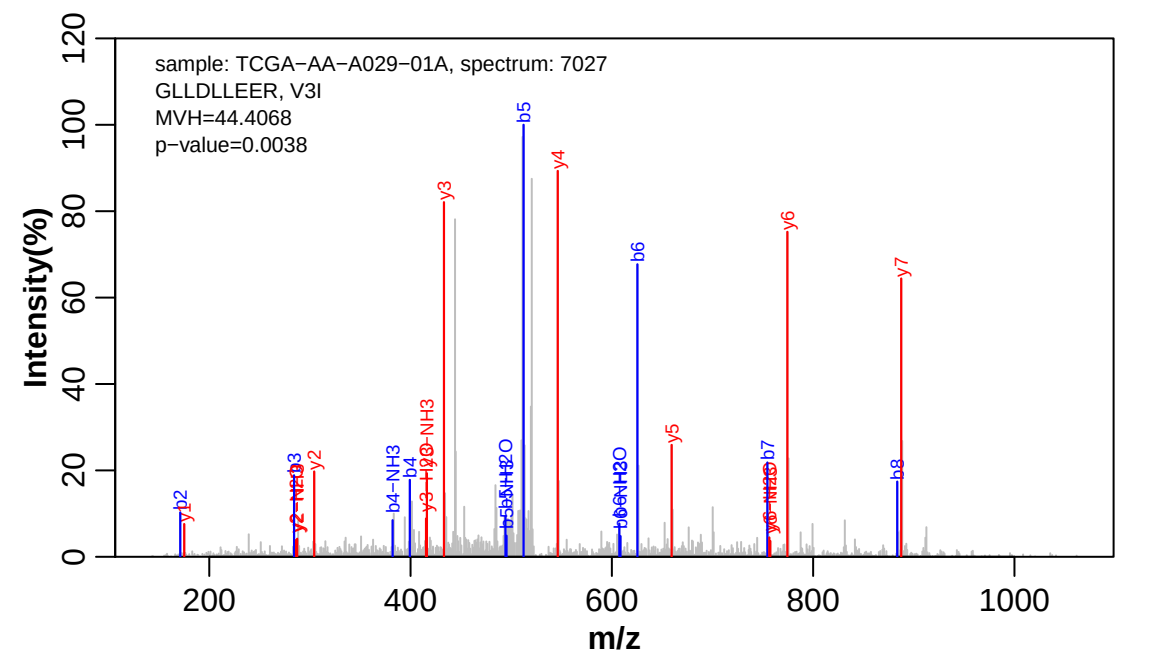

sample: TCGA−AA−A029−01A, spectrum: 79413
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=69.2026
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
b6−H2O
b6−NH3
y6
y13++
b16++
b18++−H2O
b20++−H2O
b10
b24++
b13
b25++
b26++−NH3
b26++
b27++
b29++
y15−NH3
b17−H2O
b18

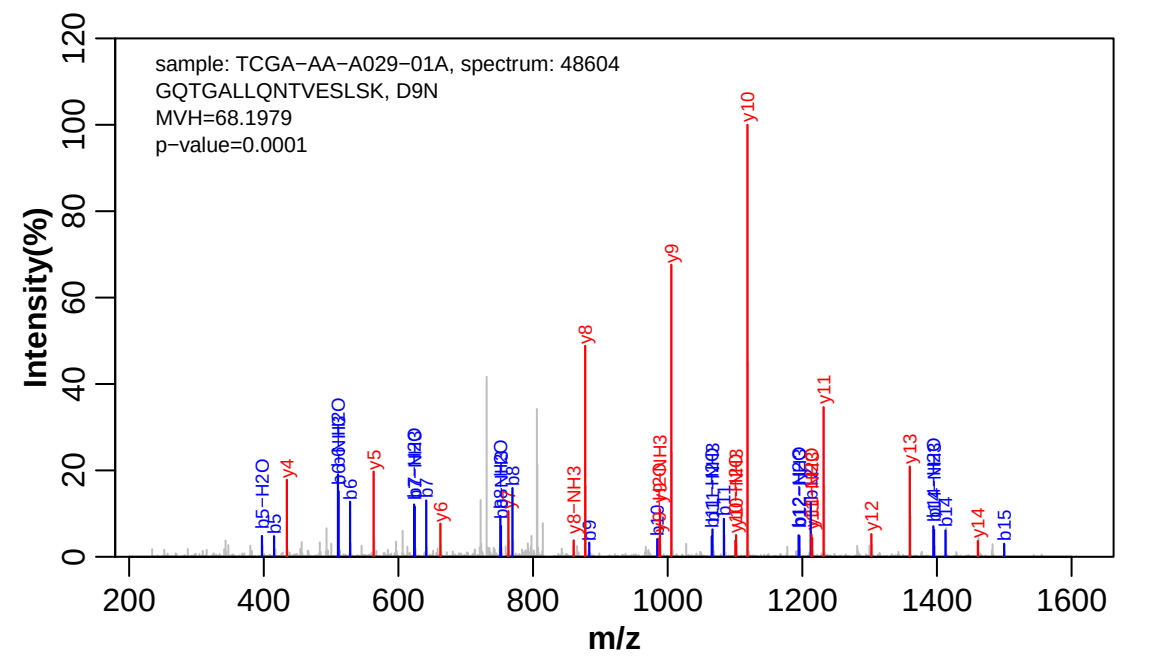

sample: TCGA−AA−A029−01A, spectrum: 87611
FYLGGPTSVR, I9V
MVH=49.2401
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

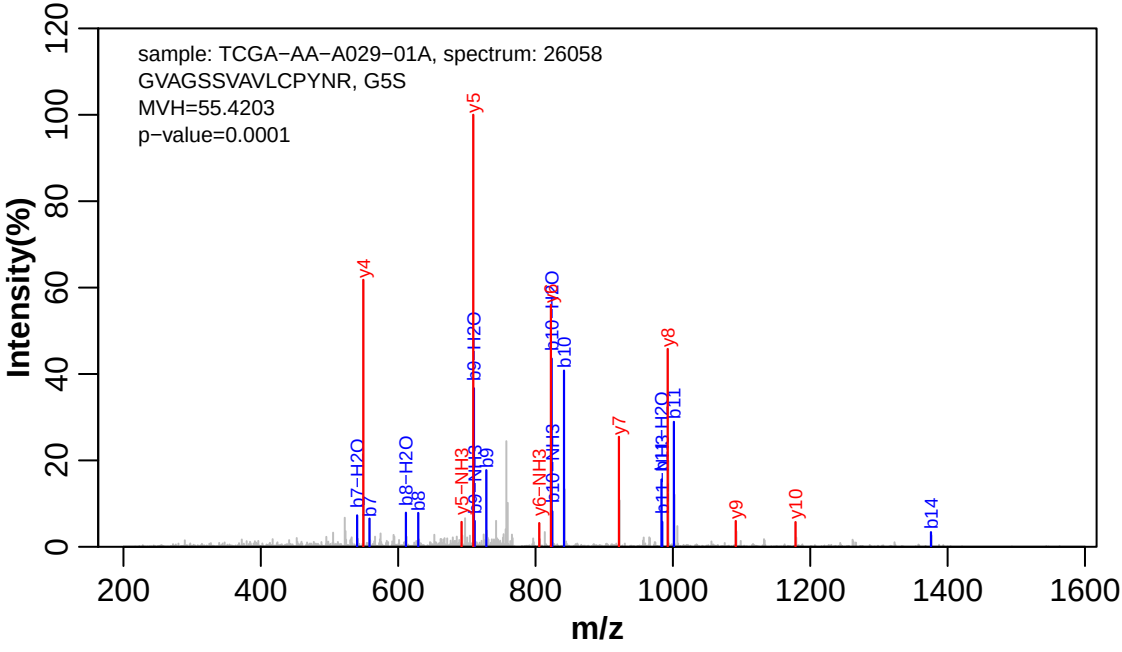

sample: TCGA−AA−A029−01A, spectrum: 43709
GAQEKPQLSAAQSTQPQK, R3Q
MVH=47.6699
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b15++
y3
b17++
b12++
b15++−H2O
b8++−H2O
y8++−H2O
b17++−NH3
y8++
b9
b10
b11
b4

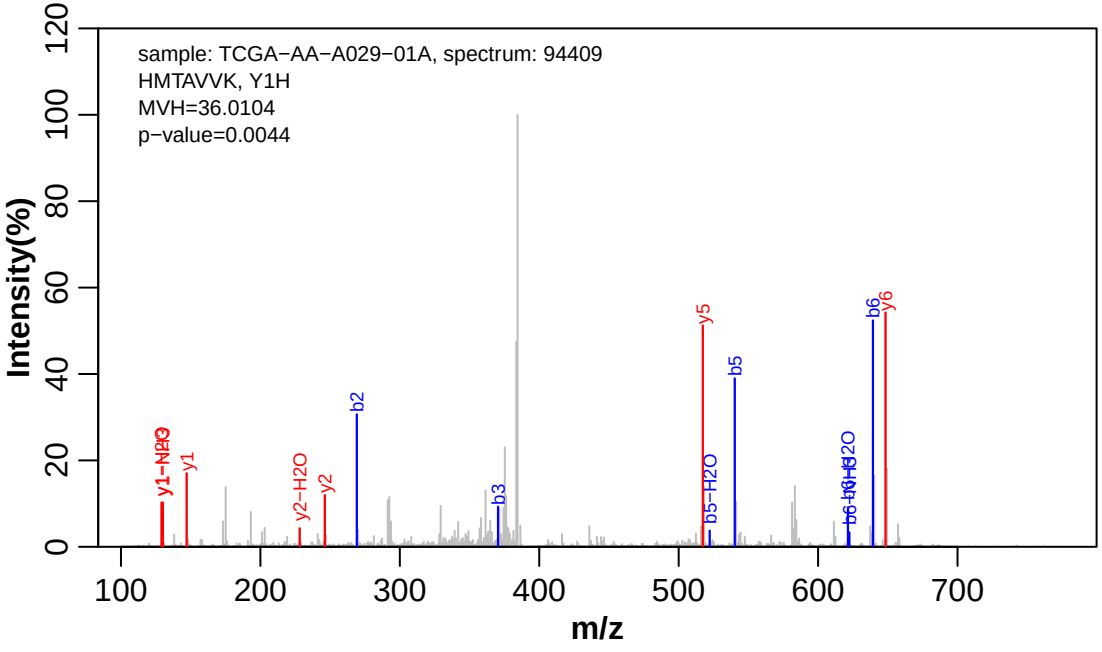

sample: TCGA−AA−A029−01A, spectrum: 6973
GFGTDEQALLDCLGSCSNK, R16C
MVH=67.0565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5
y3
b9
b10
b12
b14++
b13++−H2O
y17++
b18++
y9
y10
y11
b8
b5−H2O
y4−NH3
y4
b11
y8
b16++−H2O
y7
b17++
y12
b15++
y13++
y14++
b6
y15++
y16++
b7
y18++
b4
y19++
b3
y20++
b2
y21++
b1
y22++
y1
y2

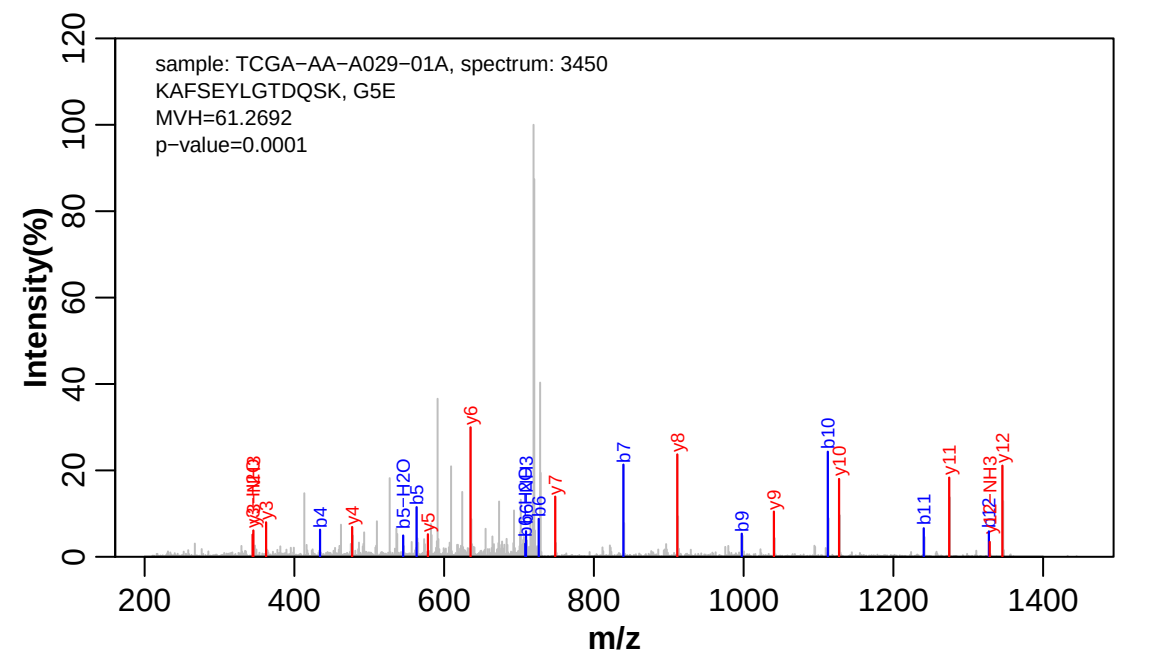

sample: TCGA−AA−A029−01A, spectrum: 16601
GLGTDEFTLYR, N10Y
MVH=50.7890
p−value=0.0001
Intensity(%)
m/z
y2
b5−H2O
b5
y3
b6−H2O
b6
b7−H2O
b7
y6
b8
b9−H2O
b9
y7
y8
b10
y9

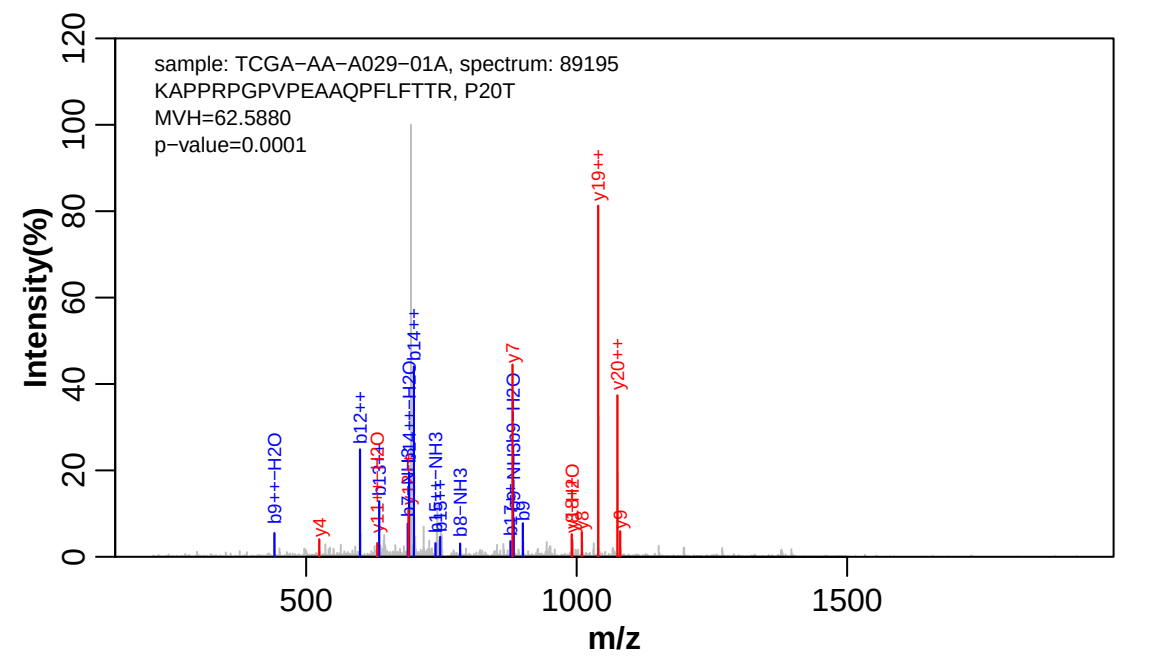

sample: TCGA−AA−A029−01A, spectrum: 7027
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
b6
y6
y7
y5
b7
b8
y2
b4
b4−NH3
y3−NH3
b5−NH3
b5−H2O
b6−NH3
b6−H2O
y6−NH3
y6−H2O
y2−NH3
y2−H2O
b2
y2

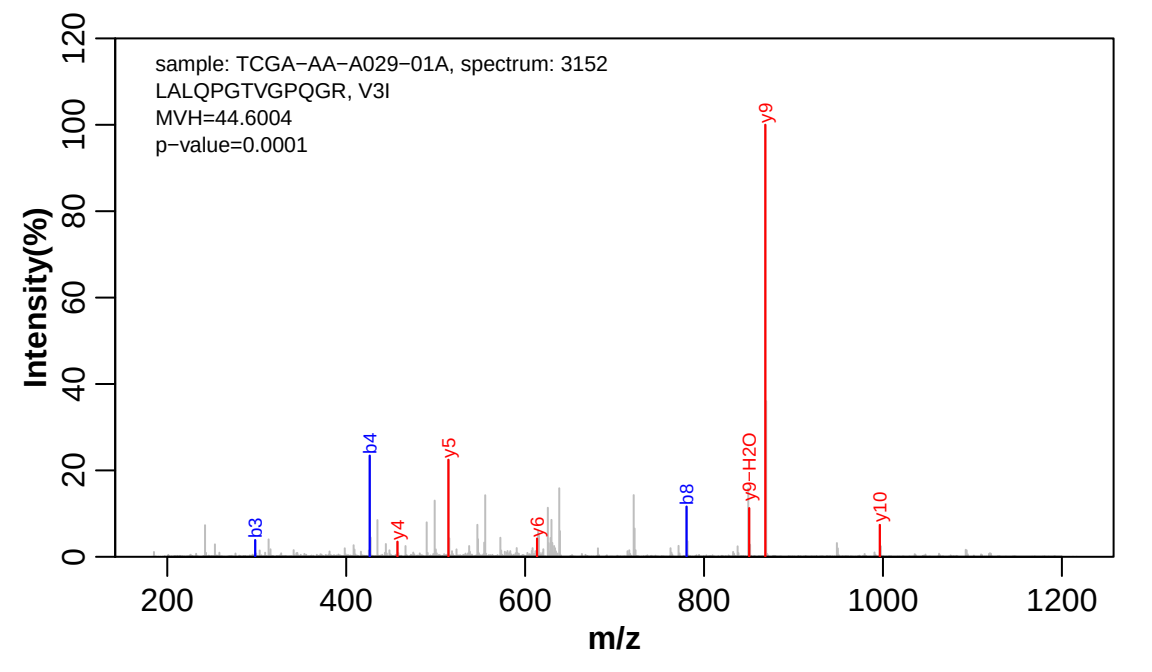

sample: TCGA−AA−A029−01A, spectrum: 48604
GQTGALLQNTVESLSK, D9N
MVH=68.1979
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
b15
y4
y5
y6
b5−H2O
b5
b6
b8
b9
y8−NH3

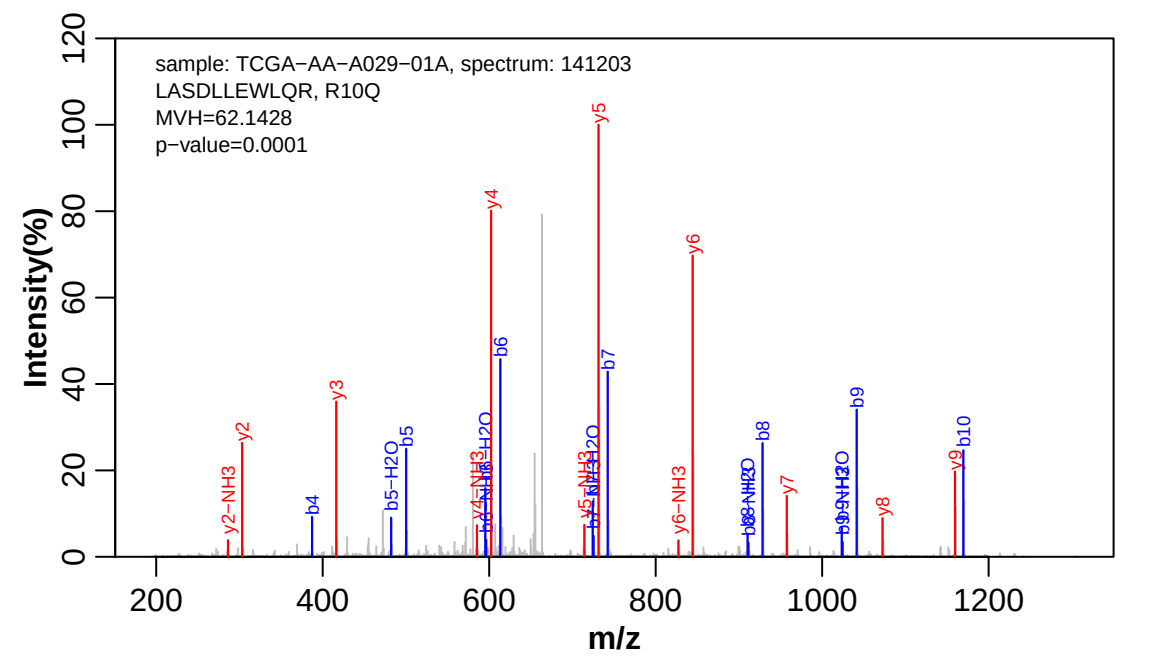

sample: TCGA−AA−A029−01A, spectrum: 26058
GVAGSSVAVLCPYNR, G5S
MVH=55.4203
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y5
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
b9−H2O
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11−H2O
b11
y9
y10
b14

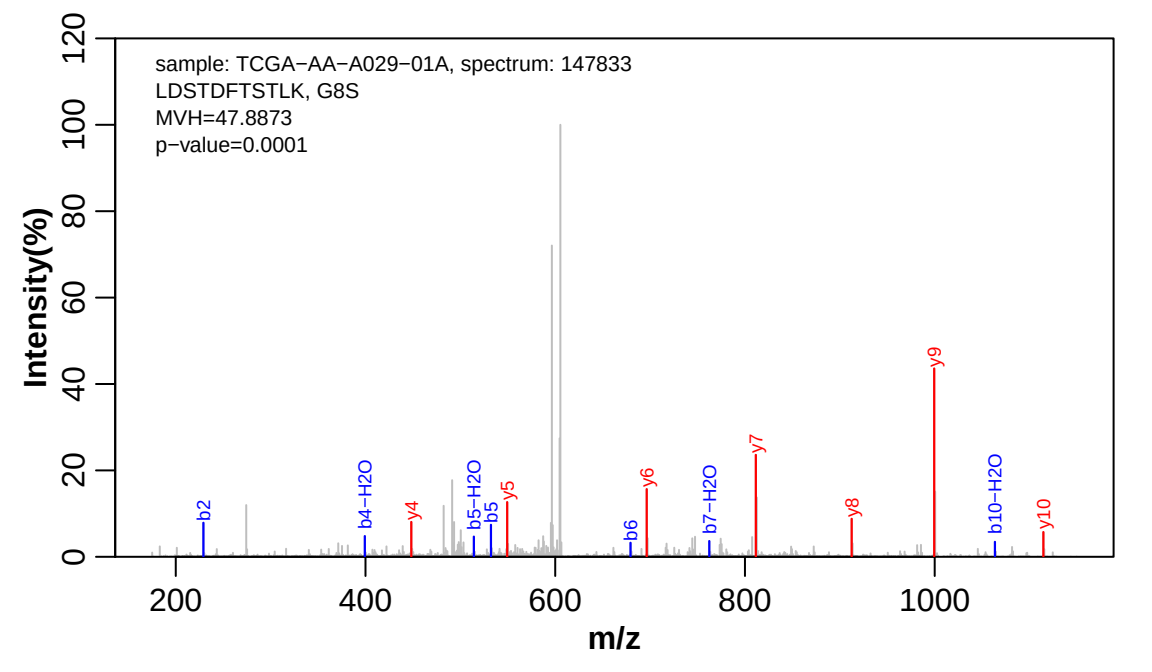

sample: TCGA−AA−A029−01A, spectrum: 94409
HMTAVVK, Y1H
MVH=36.0104
p−value=0.0044
Intensity(%)
m/z
y1
y2
y2−H2O
b2
b3
y5
b5
b5−H2O
b6
y6
0
20
40
60
80
100
120
100
200
300
400
500
600
700

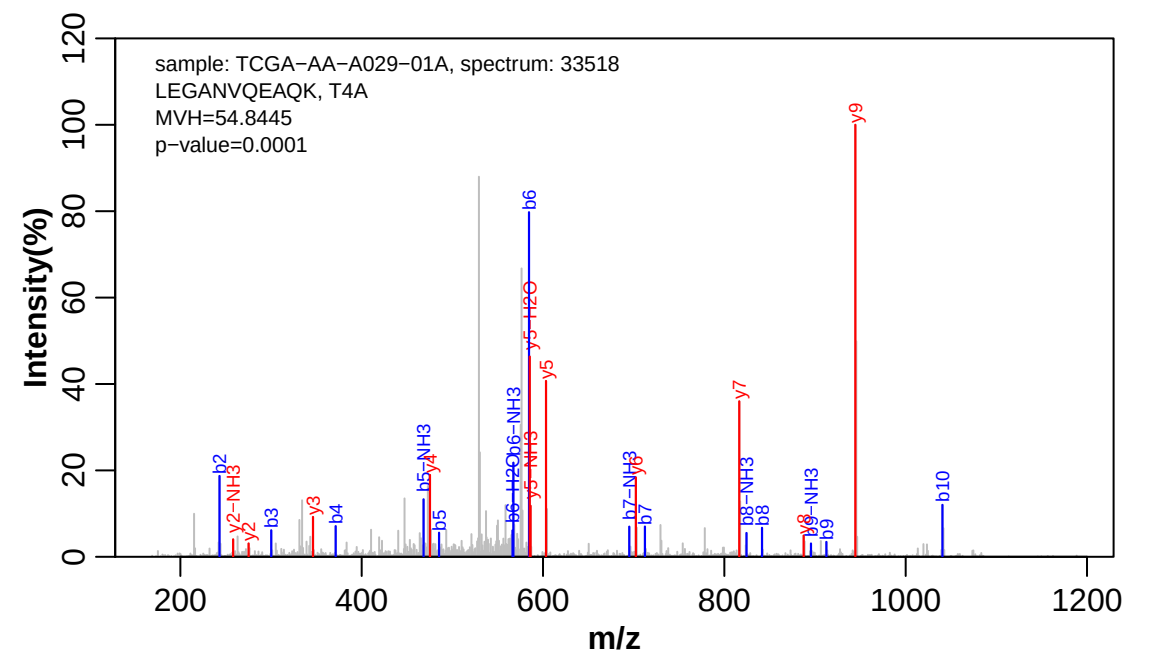

sample: TCGA−AA−A029−01A, spectrum: 3450
KAFSEYLGTDQSK, G5E
MVH=61.2692
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y4
b5−H2O
b5
y5
y6
b6
y7
b7
y8
b9
y9
b10
y10
b11
y11
y12−NH3
y12

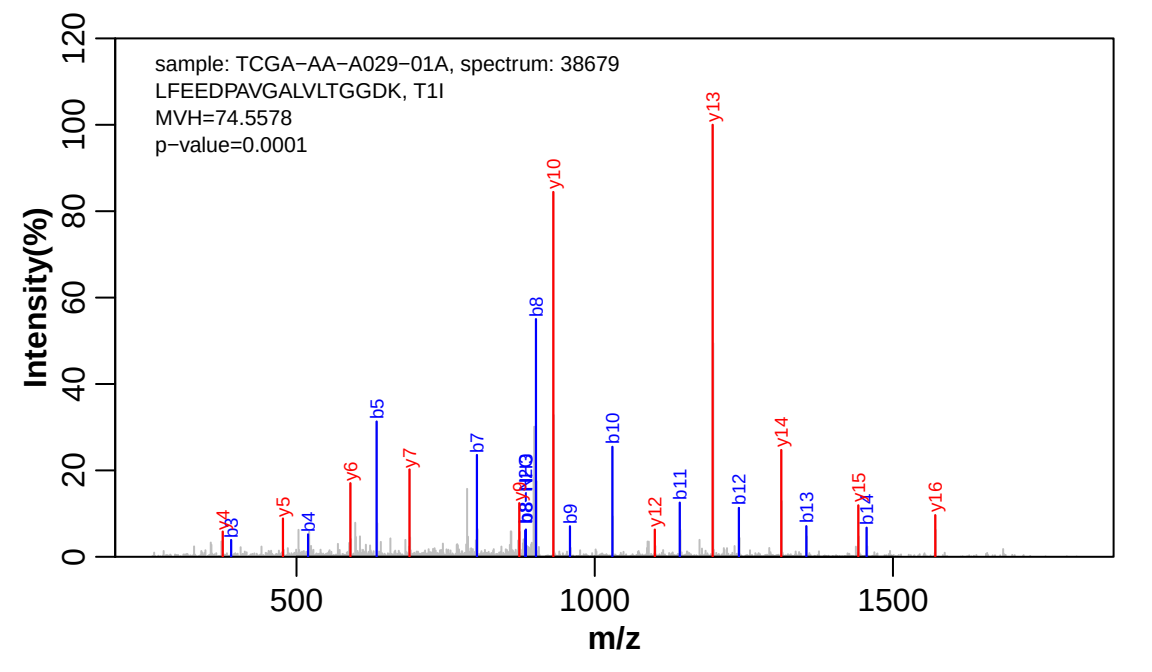

sample: TCGA−AA−A029−01A, spectrum: 89195
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=62.5880
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9++−H2O
y4
b12++
y11−b13+2H2O
b14++−H2O
b14++
b15++−NH3
b8−NH3
b9
y19++
y20++
y8
y9

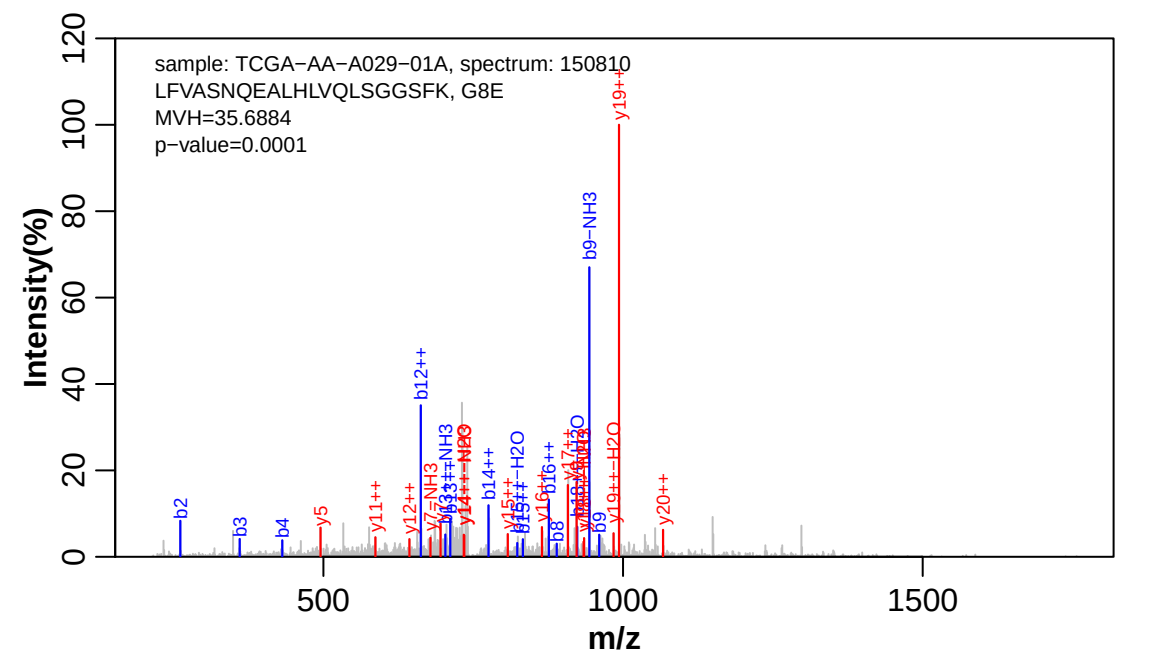

sample: TCGA−AA−A029−01A, spectrum: 3152
LALQPGTVGPQGR, V3I
MVH=44.6004
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b4
y4
y5
y6
b8
y9−H2O
y9
y10

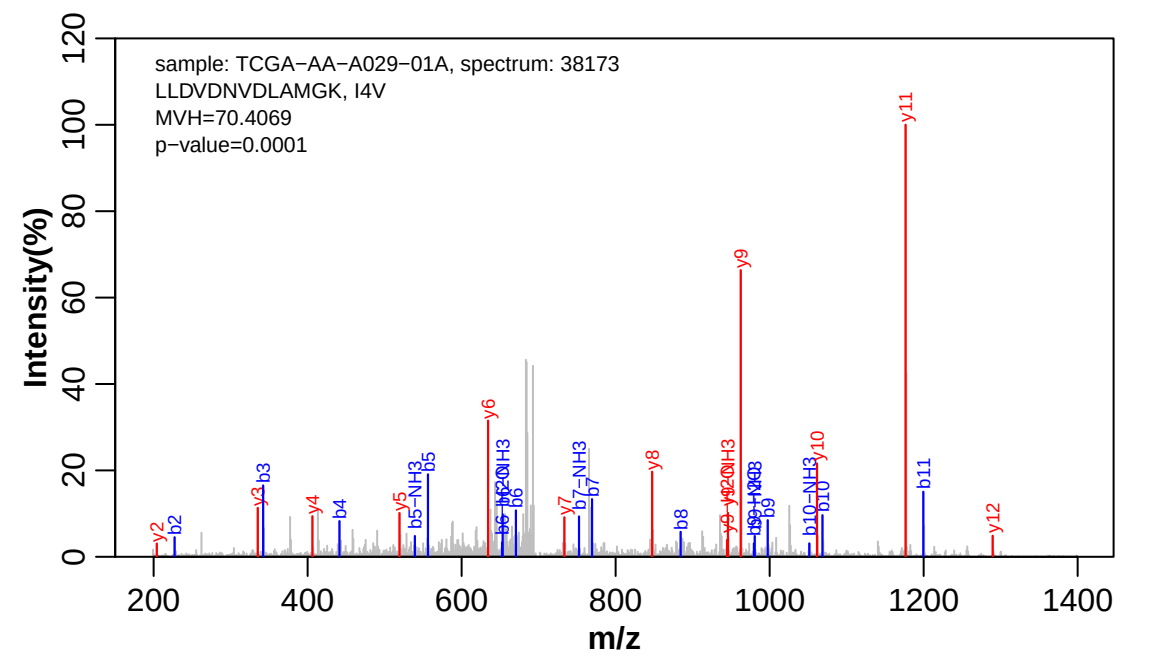

sample: TCGA−AA−A029−01A, spectrum: 141203
LASDLLEWLQR, R10Q
MVH=62.1428
p−value=0.0001
Intensity(%)
m/z
y5
y4
y6
y3
y2
b6
b7
b5
b4
b8
b9
b10
y7
y8
y9
y2−NH3
b5−H2O
y6−NH3

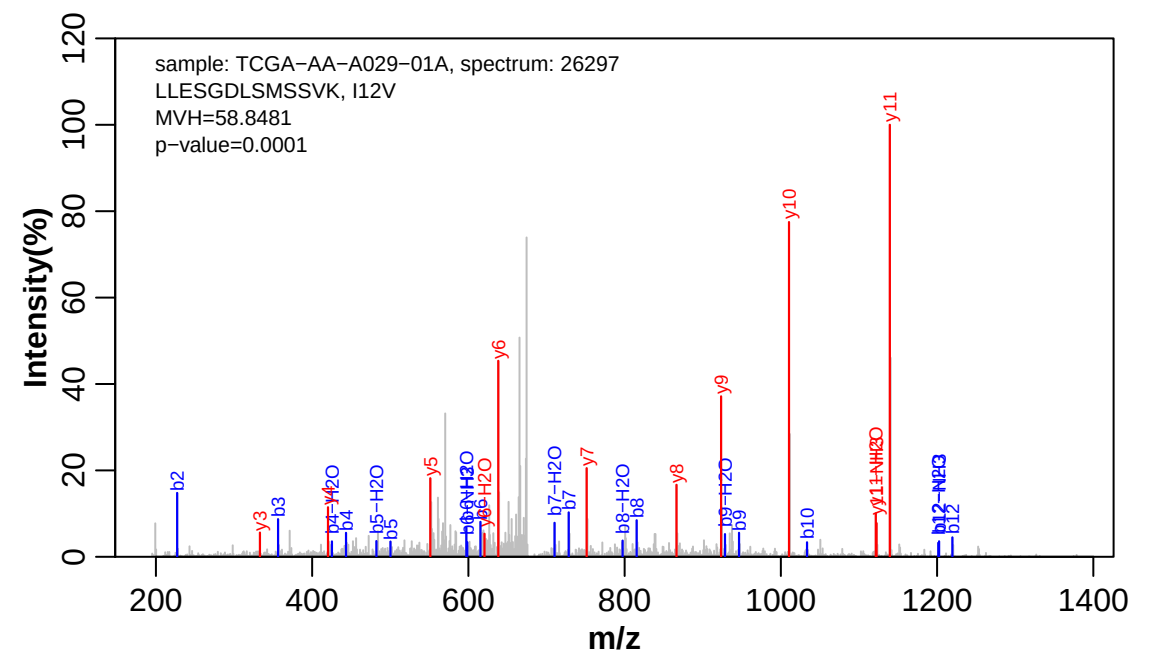

sample: TCGA−AA−A029−01A, spectrum: 147833
LDSTDFTSTLK, G8S
MVH=47.8873
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4−H2O
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
y7
y8
y9
b10−H2O
y10

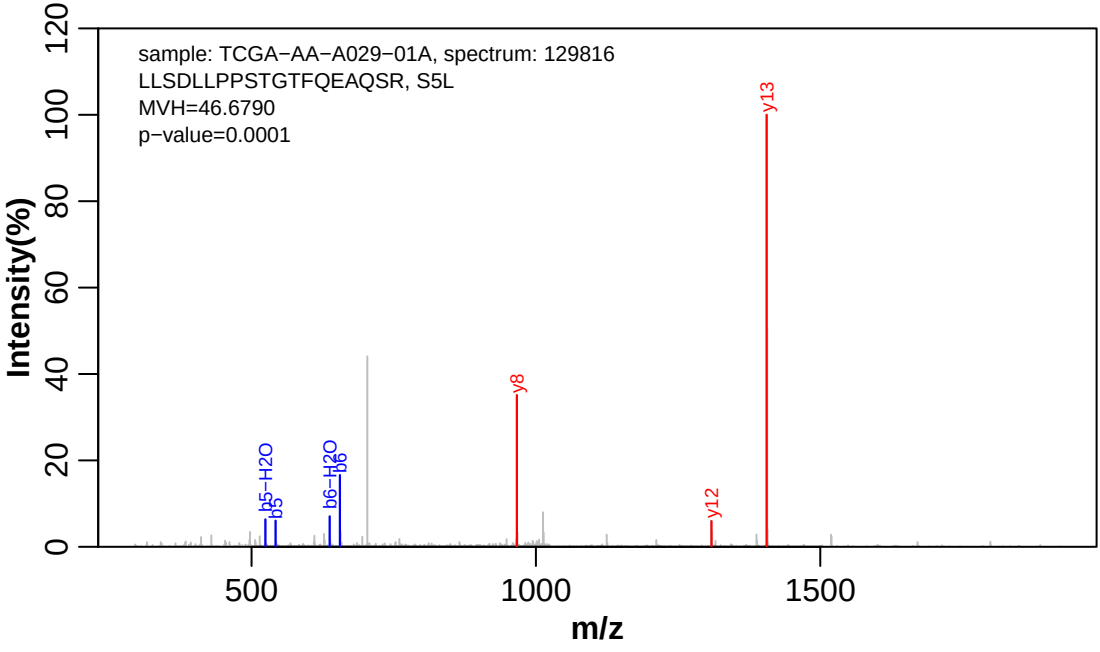

sample: TCGA−AA−A029−01A, spectrum: 33518
LEGANVQEAQK, T4A
MVH=54.8445
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
y2
b3
y3
b4
b5−NH3
y4
b5
b6−H2O
b6−NH3
y5−NH3
y5−H2O
b6
y5
b7−NH3
y6
b7
y7
b8−NH3
b8
y8
y8−NH3
b9
y9
b10

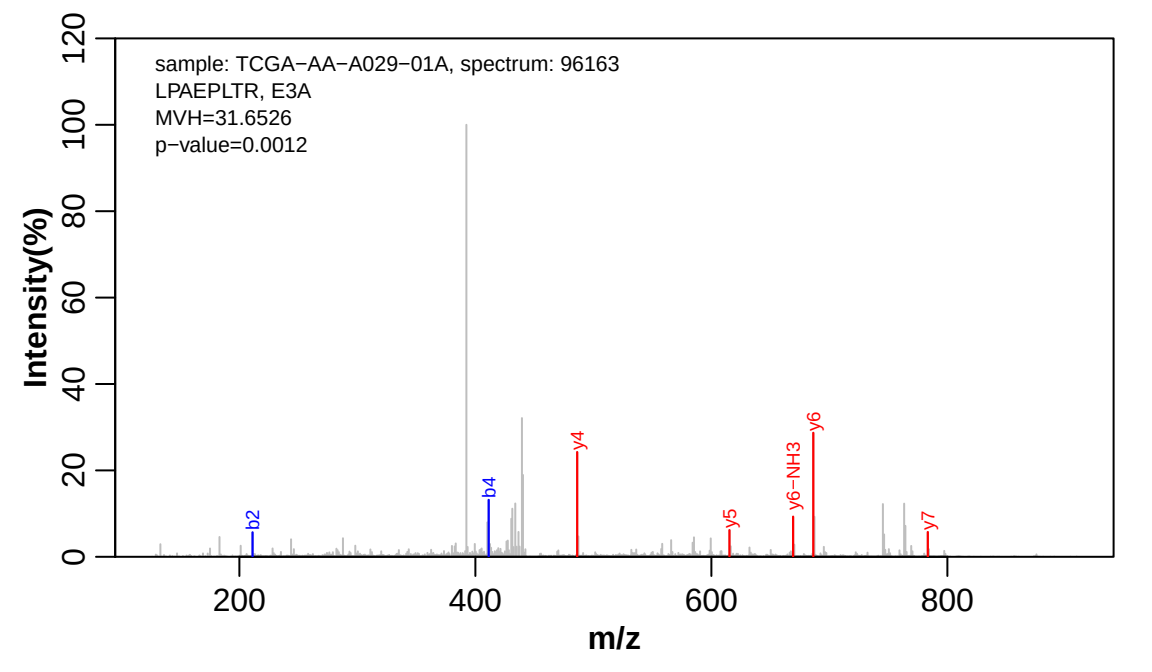

sample: TCGA−AA−A029−01A, spectrum: 38679
LFEEDPAVGALVLTGGDK, T1I
MVH=74.5578
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y6
y7
b7
b10
y14
b11
b12
b13
y15
y16
y5
b4
b9
y12
b3
y4

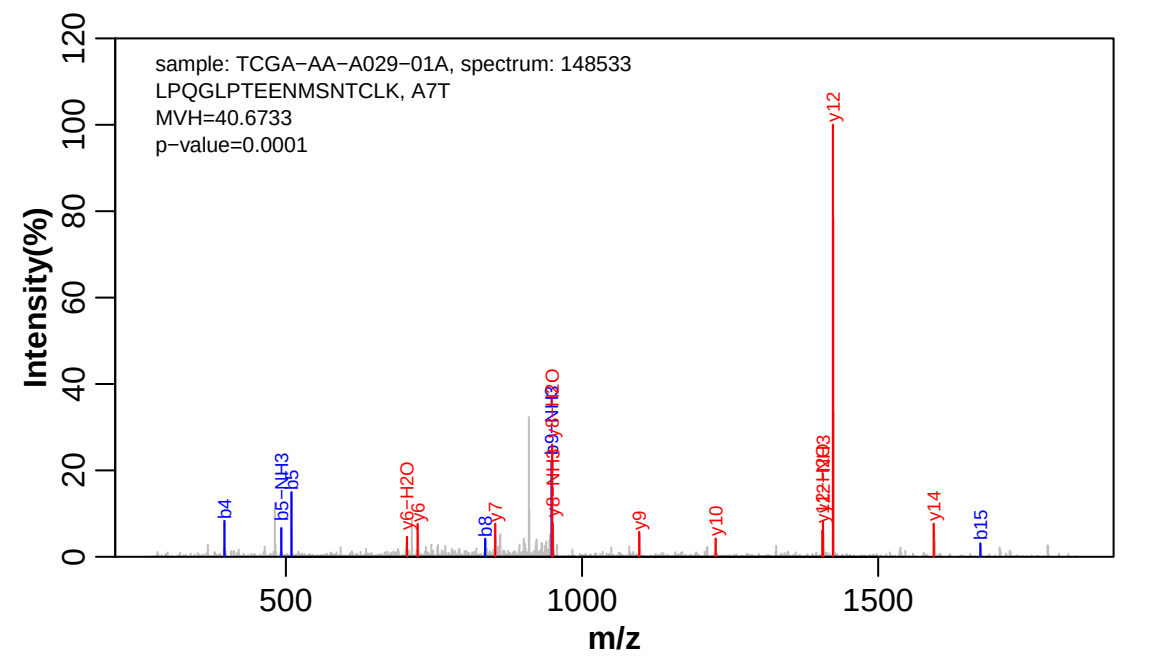

sample: TCGA−AA−A029−01A, spectrum: 150810
LFVASNQEALHLVQLSGGSFK, G8E
MVH=35.6884
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4
y5
y11++
y12++
y7−NH3
b12++
b14++
y15++
y15++−H2O
b16++
b8
b9
b9−NH3
y19++
y19++−H2O
y20++

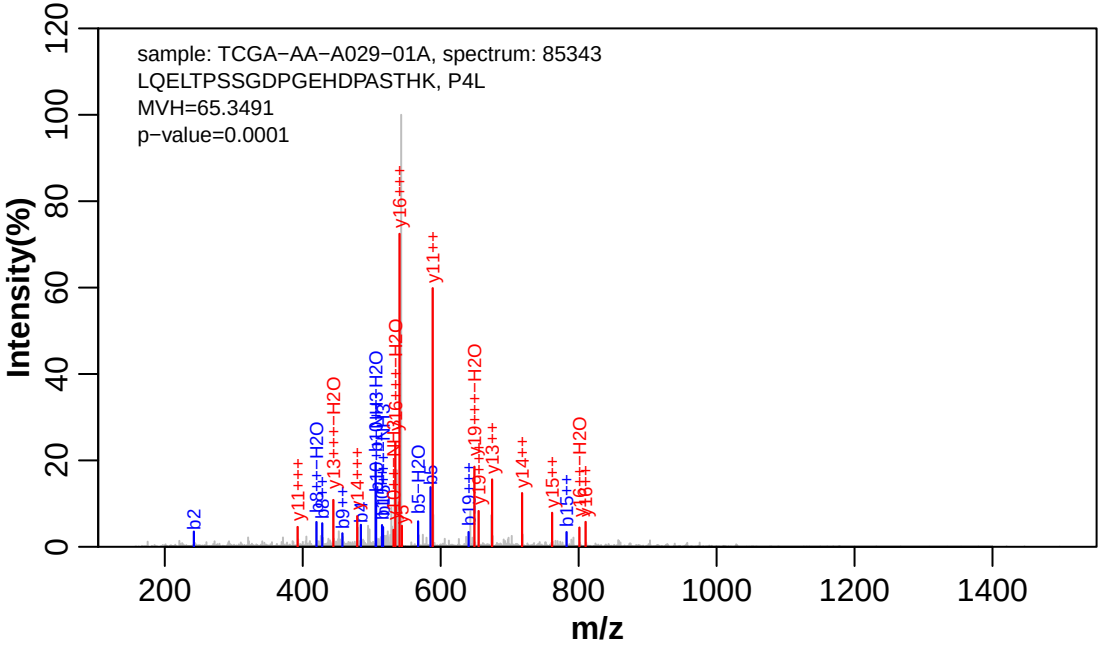

sample: TCGA−AA−A029−01A, spectrum: 38173
LLDVDNVDLAMGK, I4V
MVH=70.4069
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b2
y3
b3
y4
b4
y5
b5−NH3
b5
y6
b6
b6−NH3
y7
b7−NH3
b7
y8
b8
y9
b9
b9−NH3
y10
b10−NH3
b10
y11
b11
y12

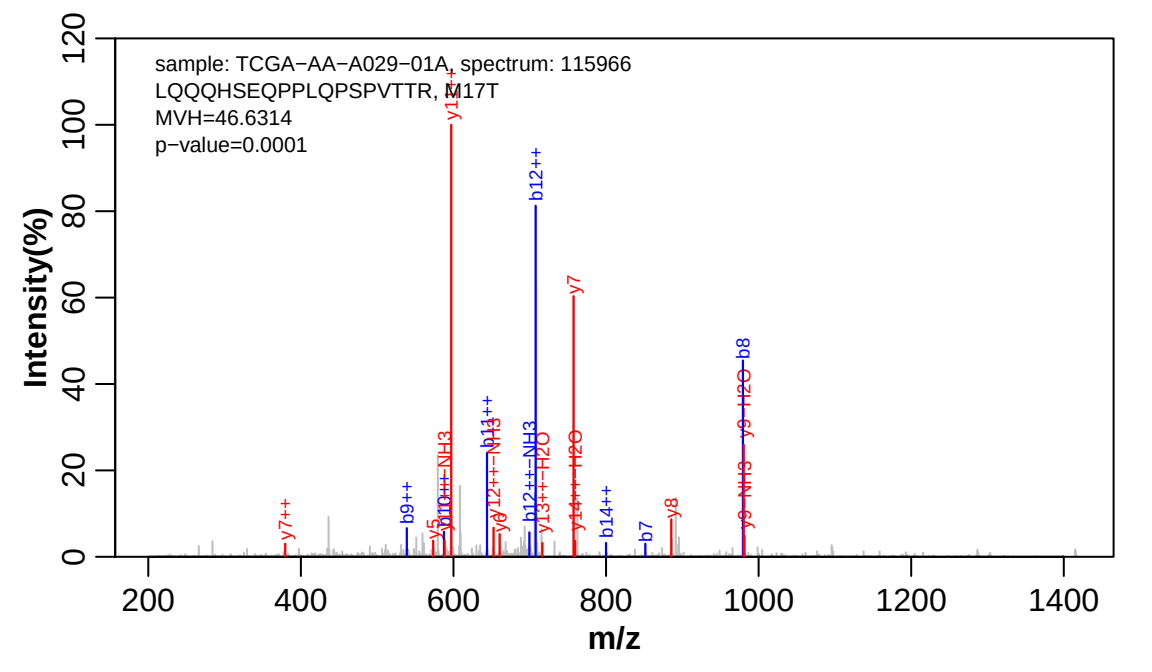

sample: TCGA−AA−A029−01A, spectrum: 26297
LLESGDLSMSSVK, I12V
MVH=58.8481
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b3
b4−Y4H2O
b4
b5−H2O
b5
y5
b6−NH3
b6
y6−H2O
y6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
y9
b9−H2O
b9
b10
y10
y11−NH3
y11
y11
b12−NH3
b12−NH3
b12

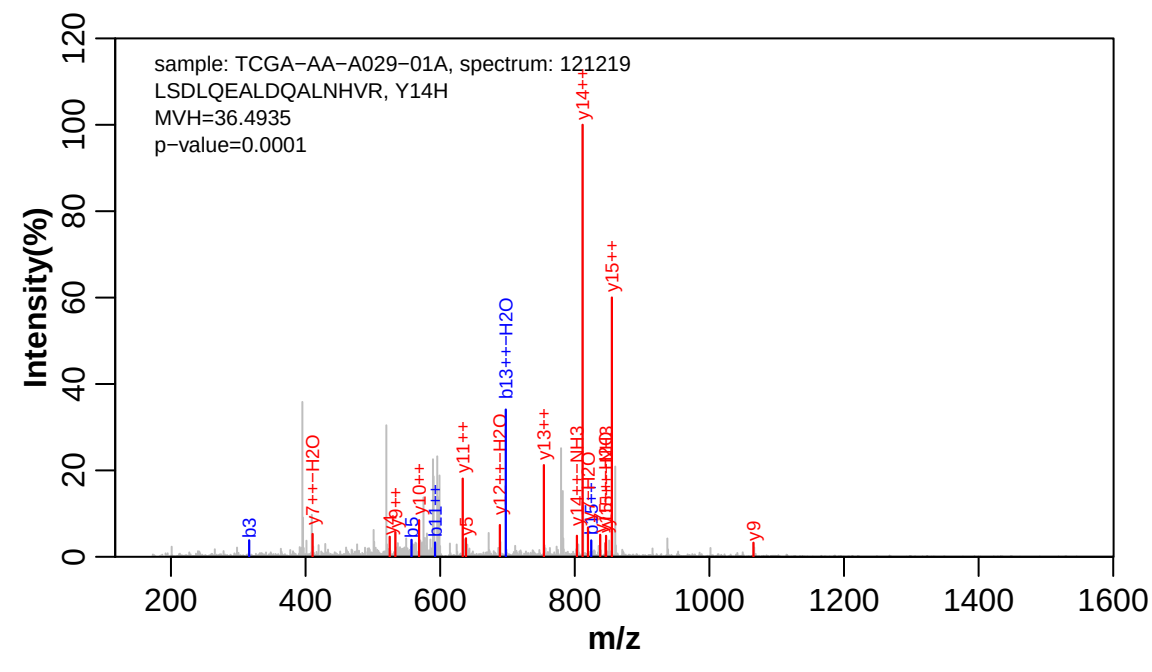

sample: TCGA−AA−A029−01A, spectrum: 129816
LLSDLLPPSTGTFQEAQSR, S5L
MVH=46.6790
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y8
y12
b5−H2O
b5
b6−H2O
b6

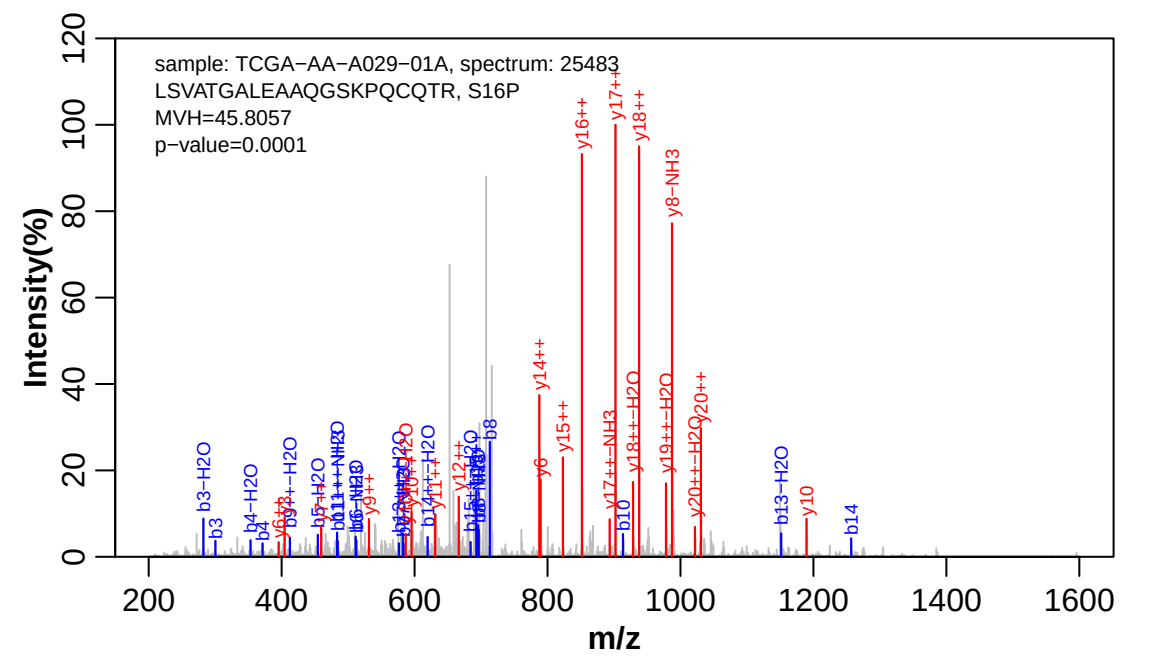

sample: TCGA−AA−A029−01A, spectrum: 96163
LPAEPLTR, E3A
MVH=31.6526
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6−NH3
y6
y7

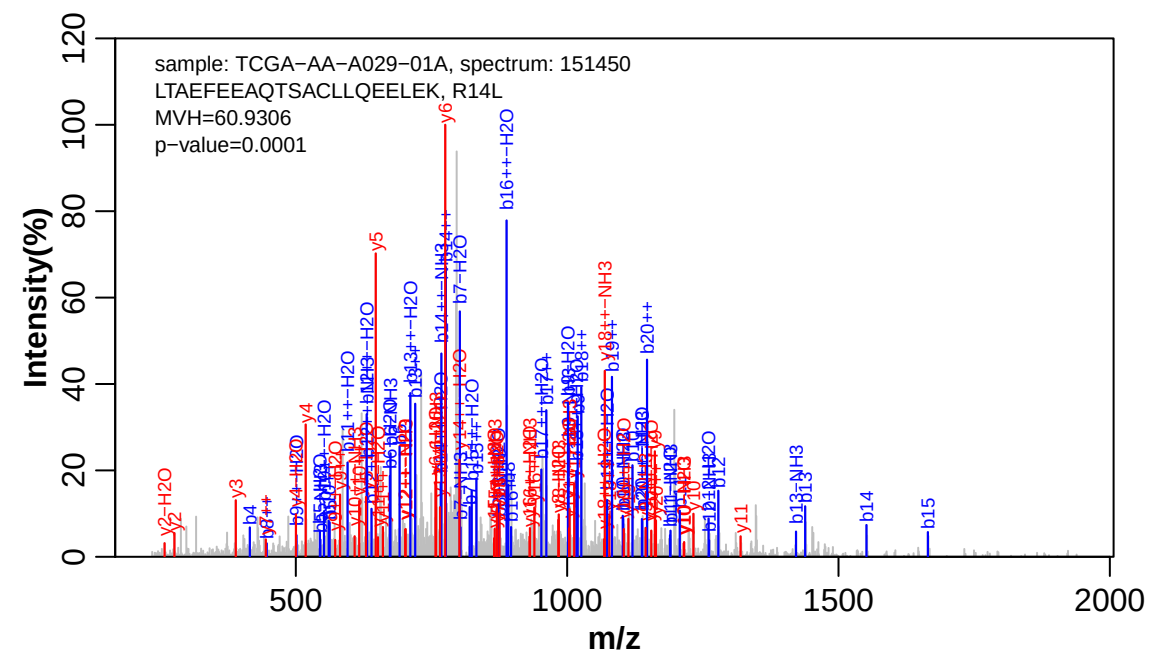

sample: TCGA−AA−A029−01A, spectrum: 148533
LPQGLPTEENMSNTCLK, A7T
MVH=40.6733
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−NH3
b5
y6−H2O
y6
b8
y7
y8−NH3
y8−NH3
y8−H2O
y9
y10
y12−H2O
y12−H2O
y12
y14
b15

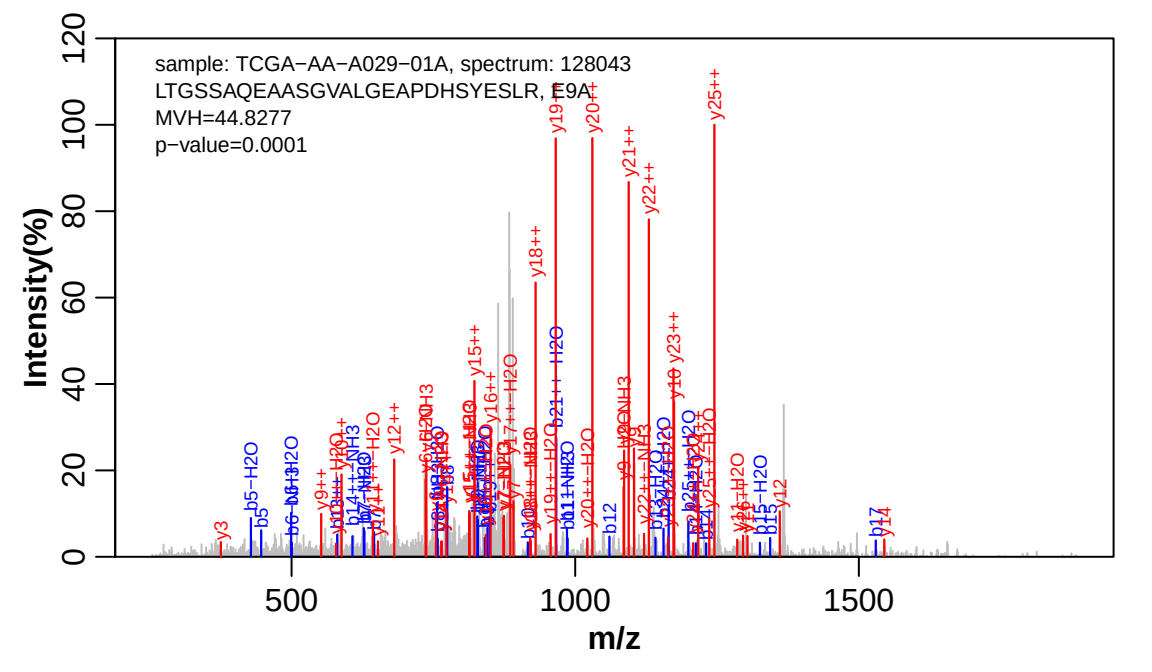

sample: TCGA−AA−A029−01A, spectrum: 85343
LQELTPSSGDPGEHDPASTHK, P4L
MVH=65.3491
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b8++−H2O
b8++
y13+++−H2O
b9++
y13+++
b4++
y14+++
b5−H2O
b5
y16+++
y11++
b19+++
y19++
y19+++−H2O
y13++
y14++
y15++
b15++
y16++−H2O

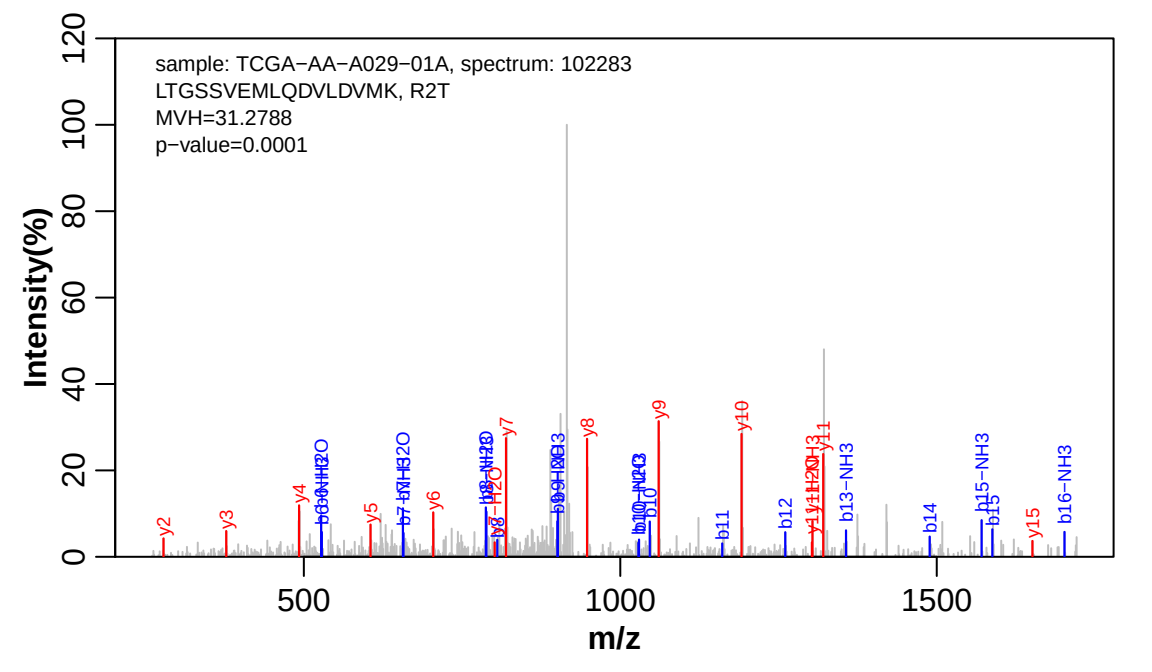

sample: TCGA−AA−A029−01A, spectrum: 115966
LQQQHSEQPPLQPSPVTTR, M17T
MVH=46.6314
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11++
b12++
y7
b8
y9++H2O
y9++NH3
y8
b7
b14++
y14++H2O
y13++H2O
b12++NH3
y12++NH3
b11++
y10++NH3
y5
b9++
y7++

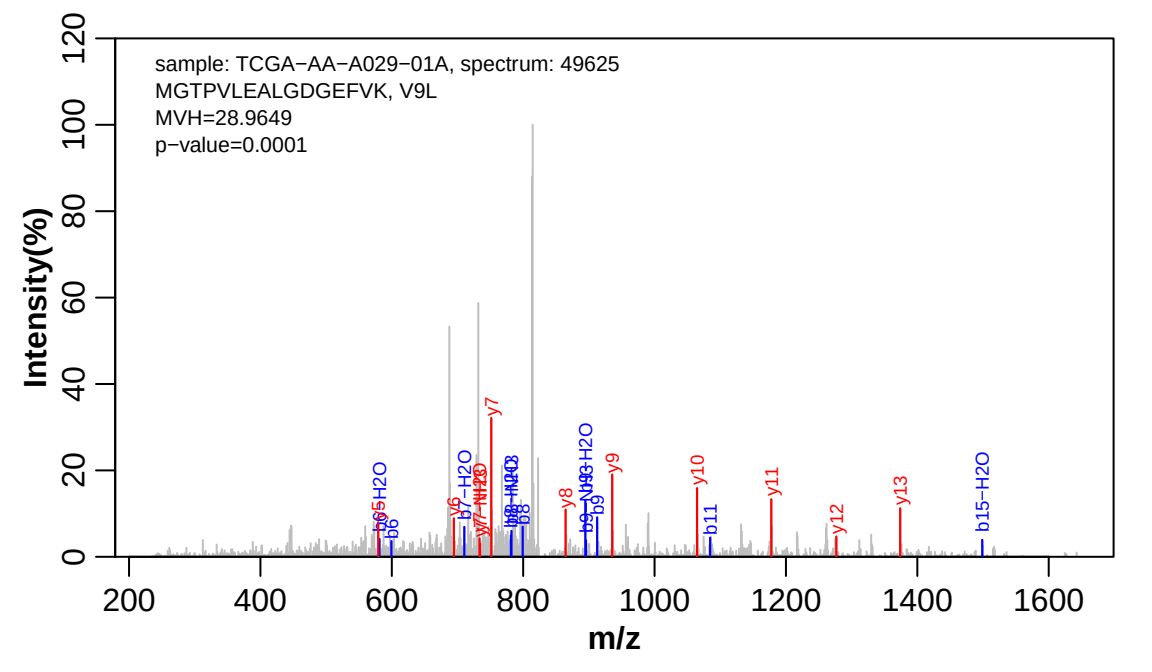

sample: TCGA−AA−A029−01A, spectrum: 121219
LSDLQEALDQALNHVR, Y14H
MVH=36.4935
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y7++−H2O
y9++
b5
y10++
b11++
y5
y11++
y12++−H2O
b13++−H2O
y13++
y14++−NH3
y14++−H2O
y14++
y15++
y9

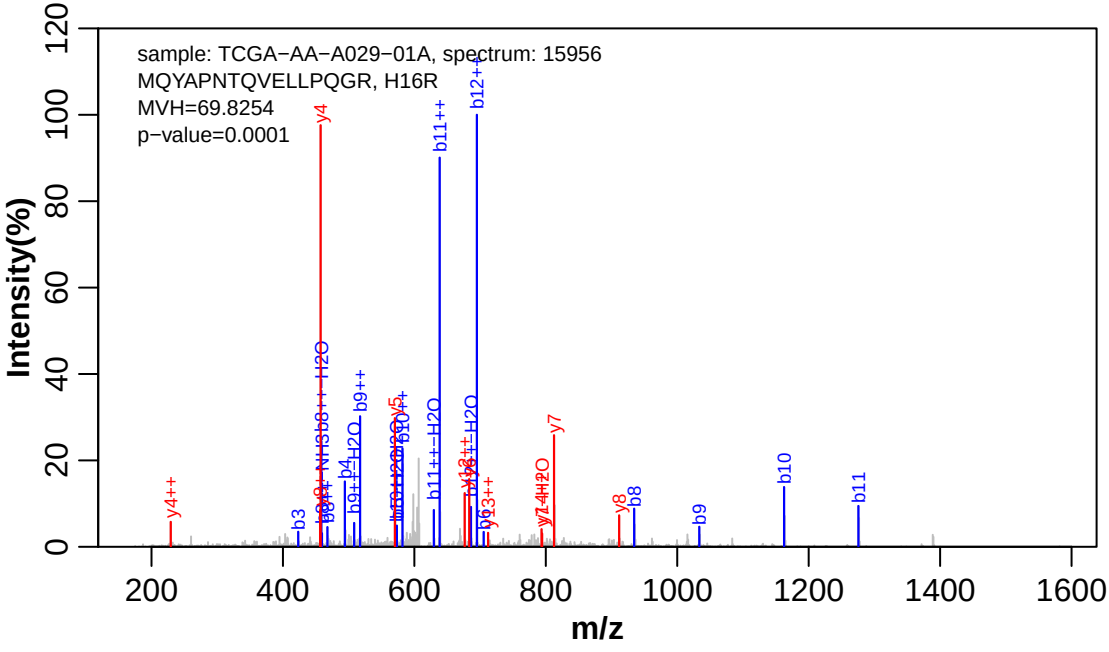

sample: TCGA−AA−A029−01A, spectrum: 25483
LSVATGALEAAQGSKPQCQTR, S16P
MVH=45.8057
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4−H2O
b4
y6++
b5−H2O
y7++−H2O
b6−NH3
y9++
b11++−H2O
y11++−H2O
y12++
b8
y6
y14++
y15++
y16++
y17++
y17++−NH3
b10
y18++
y18++−H2O
y8−NH3
y19++−H2O
y20++−H2O
y20++
b13−H2O
y10
b14

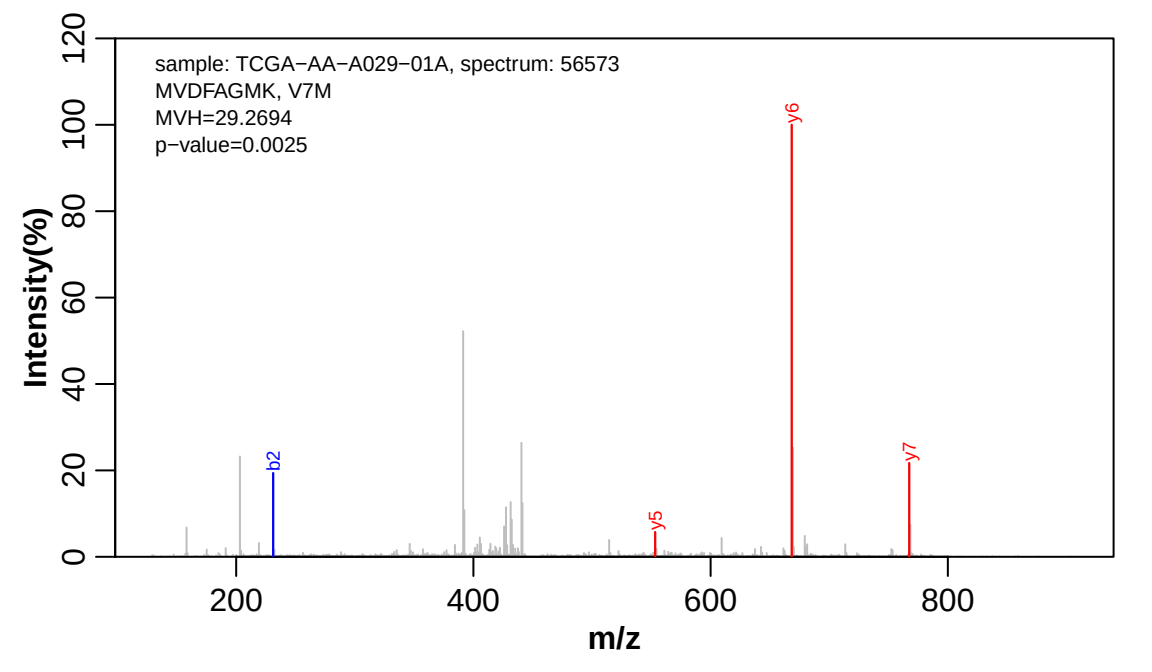

sample: TCGA−AA−A029−01A, spectrum: 151450
LTAEFEEAQTSACLLQEELEK, R14L
MVH=60.9306
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
y5
y4
y3
b16++−H2O
b7−H2O
b20++
b14
b15
y11
b13−NH3

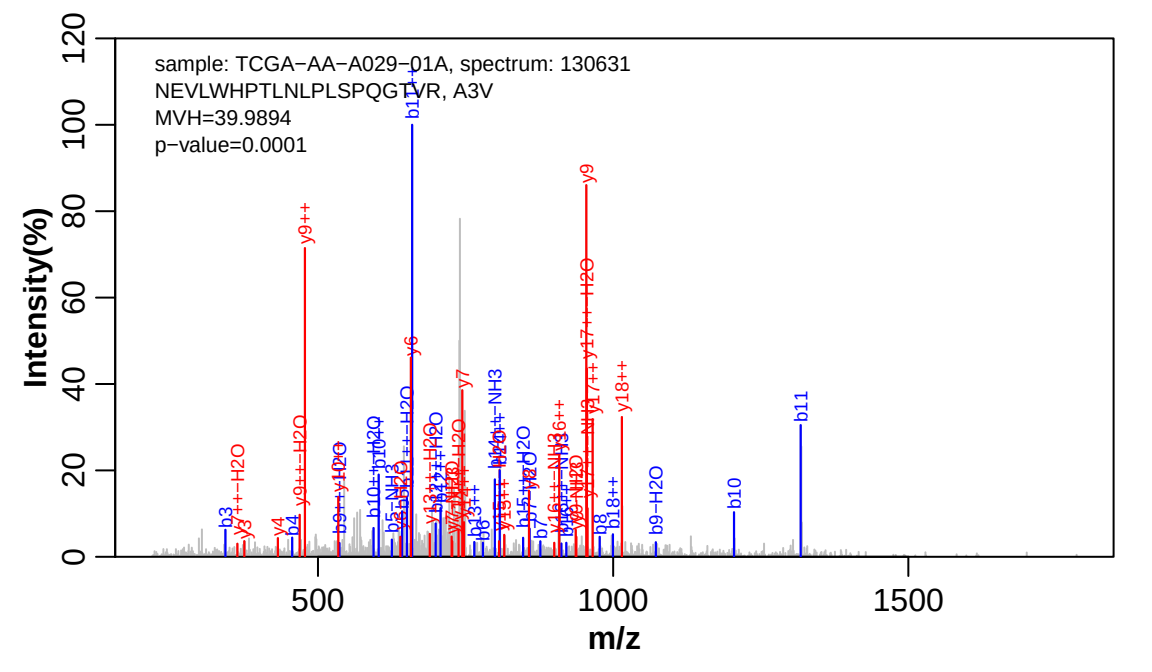

sample: TCGA−AA−A029−01A, spectrum: 128043
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=44.8277
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5−H2O
b5
y9++
y12++
y15++
y16++
y18++
y19++−H2O
y19++
y20++
b21++−H2O
y20++−H2O
b12
y21++
y22++
y25++
y23++
b25++−H2O
y11++−H2O
b15−H2O
y12
b17

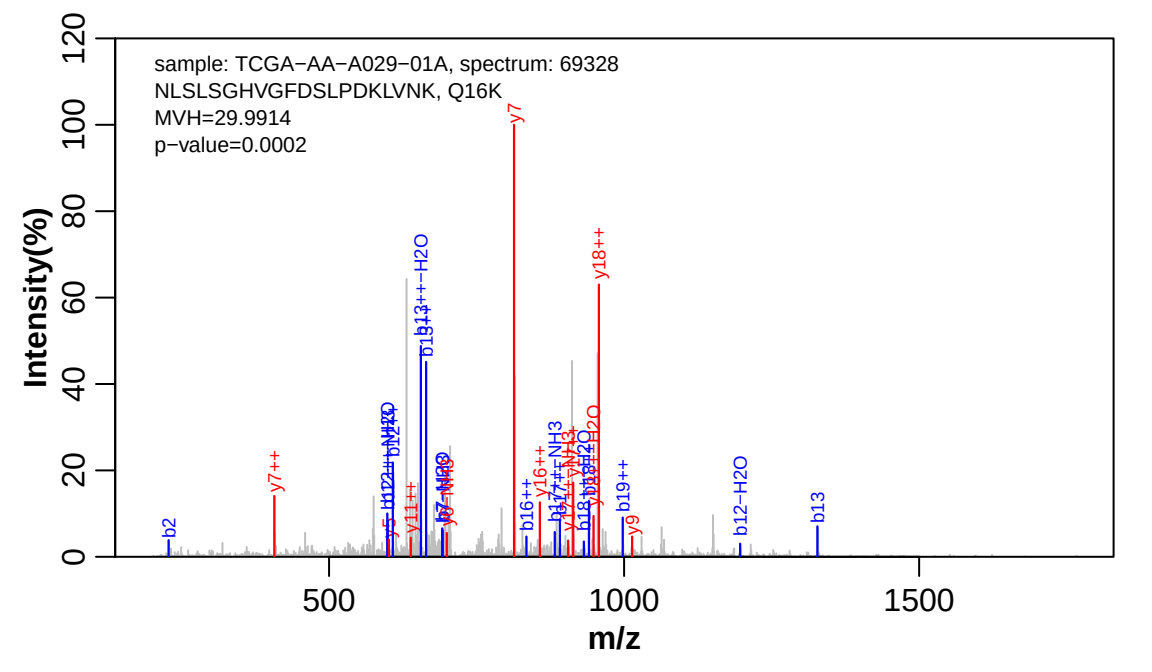

sample: TCGA−AA−A029−01A, spectrum: 102283
LTGSSVEMLQDVLDVMK, R2T
MVH=31.2788
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
y4
y5
y6
y7
y8
y9
y10
y11
b11
b12
b13−NH3
b14
b15−NH3
y15
b16−NH3

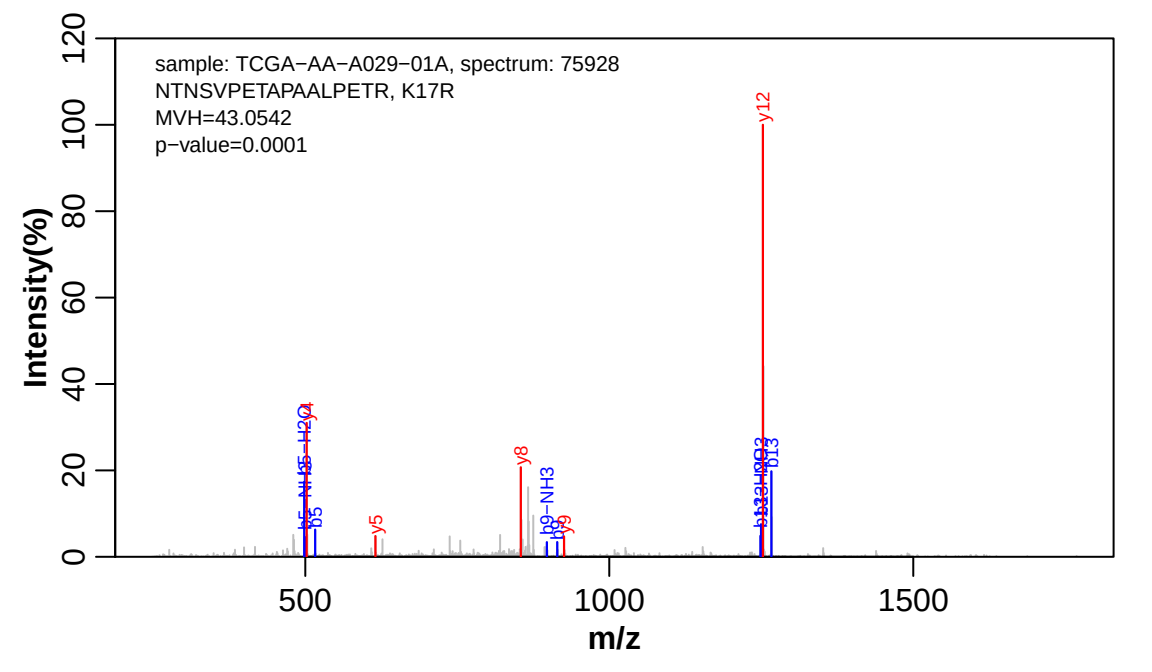

sample: TCGA−AA−A029−01A, spectrum: 49625
MGTPVLEALGDGEFVK, V9L
MVH=28.9649
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b6
b6−H2O
b7
b7−H2O
y6
y7
y7−NH3
b8
b8−NH3
b8−H2O
y8
b9
b9−NH3
b9−H2O
y9
y10
b11
y11
y12
y13
b15−H2O

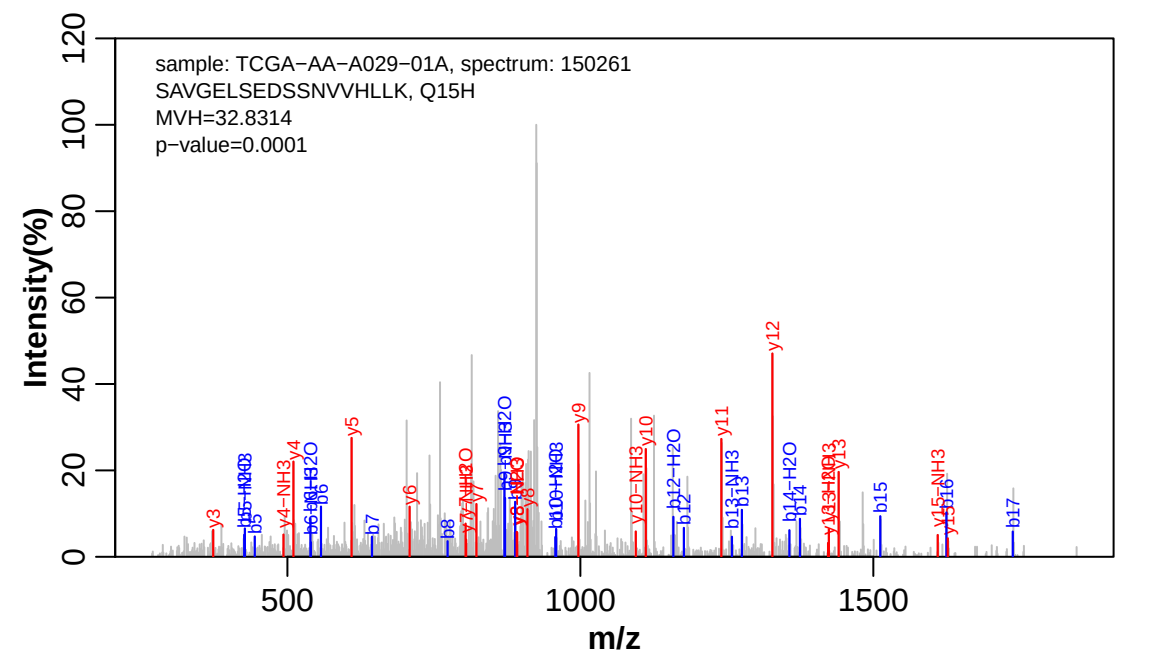

sample: TCGA−AA−A029−01A, spectrum: 15956
MQYAPNTQVELLPQGR, H16R
MVH=69.8254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y4++
b3
b4
b9++
b11++
b12++
b11++−H2O
b10++
y7
y8
b8
b9
b10
b11
y13++

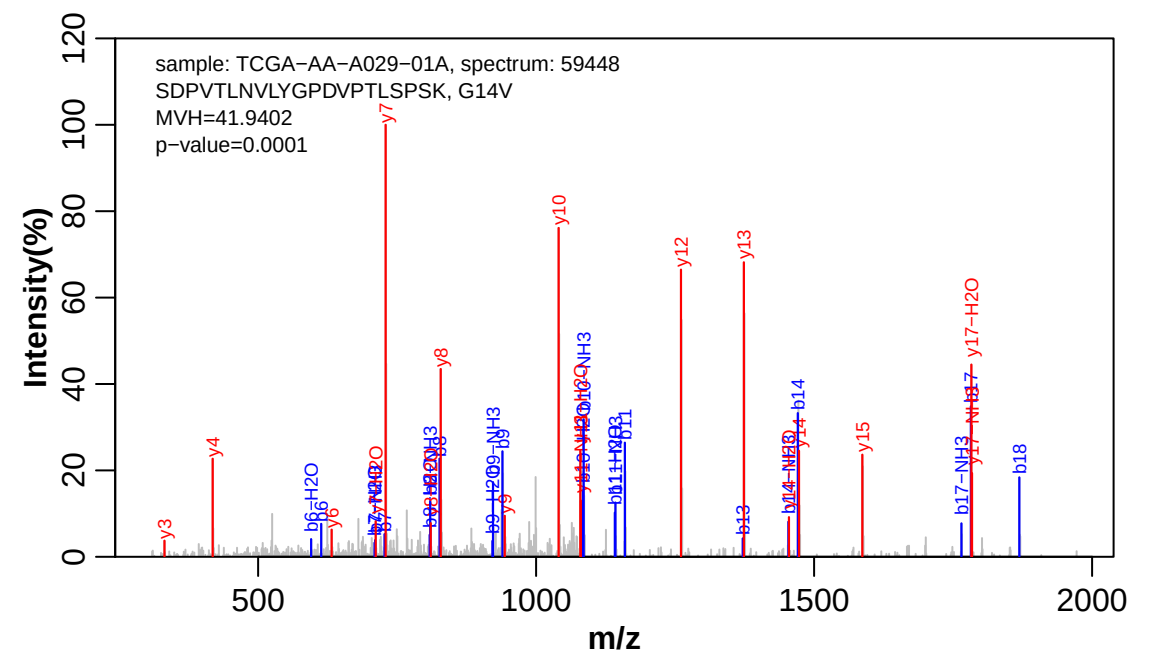

sample: TCGA−AA−A029−01A, spectrum: 56573
MVDFAGMK, V7M
MVH=29.2694
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y5
y6
y7

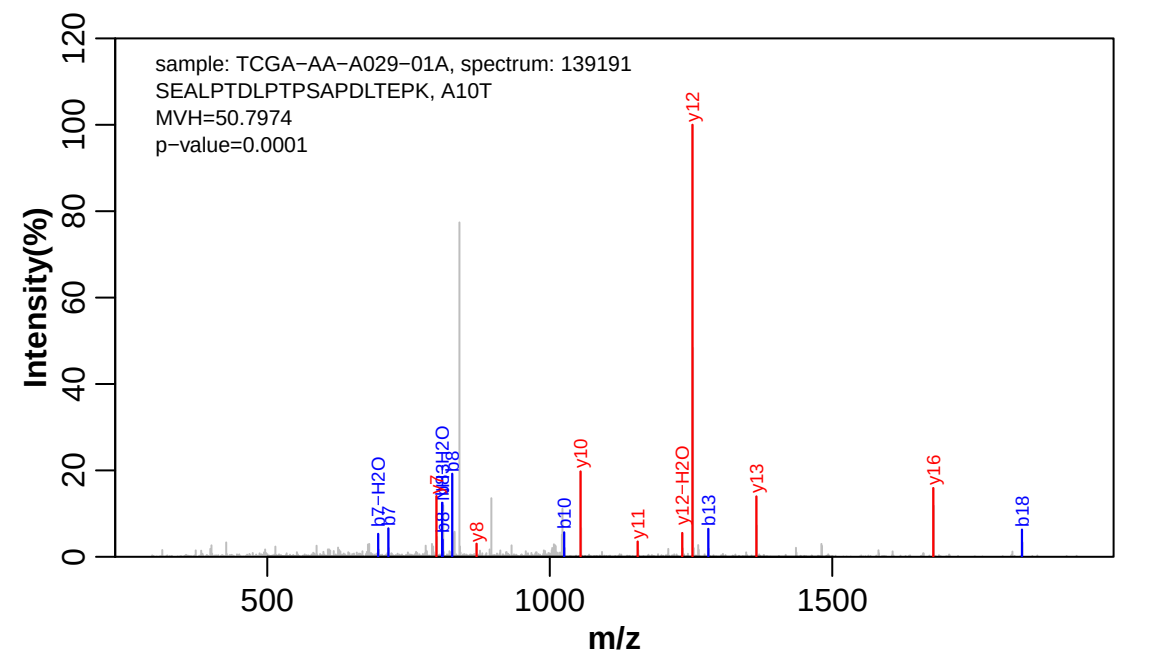

sample: TCGA−AA−A029−01A, spectrum: 130631
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=39.9894
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y9++
y9
y6
y7
y17++ H2O
y18++
b11
b10
b9−H2O
b18++
y9++−H2O
y3++−H2O
b3
y4
b4
y17++ NH3
y16++ NH3
b8
b7
b5−H2O
b10++ NH3

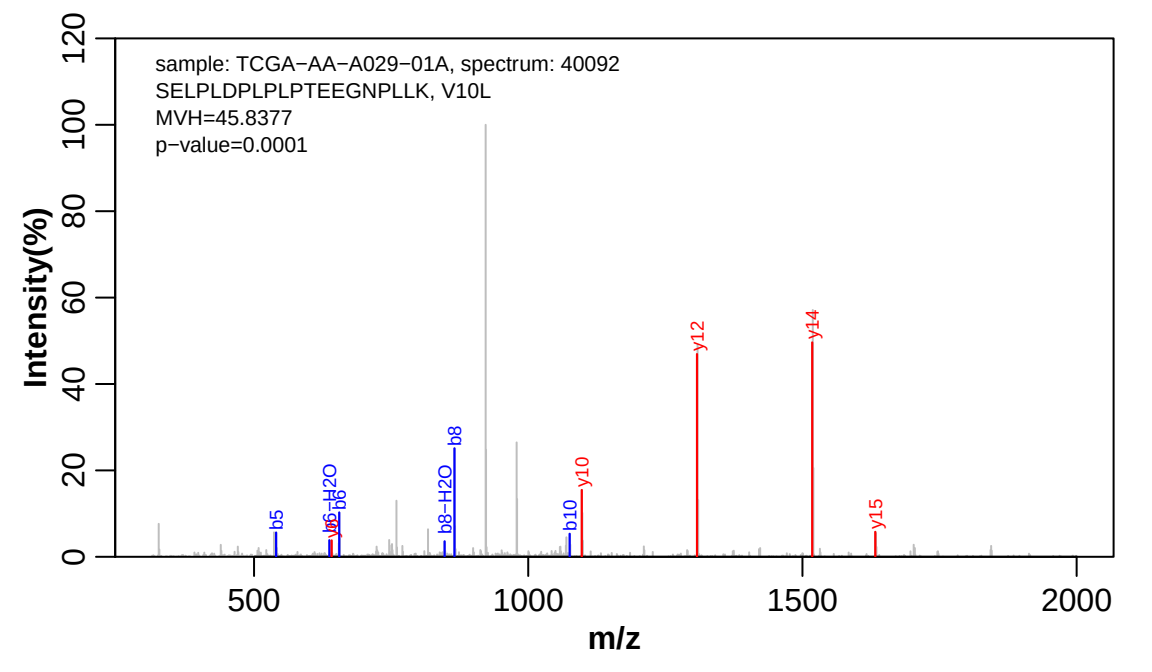

sample: TCGA−AA−A029−01A, spectrum: 69328
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=29.9914
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y7++
y7
y11++
b13++−H2O
b13
y18++
b16++
y16++
b19++
y9
b12−H2O
b13

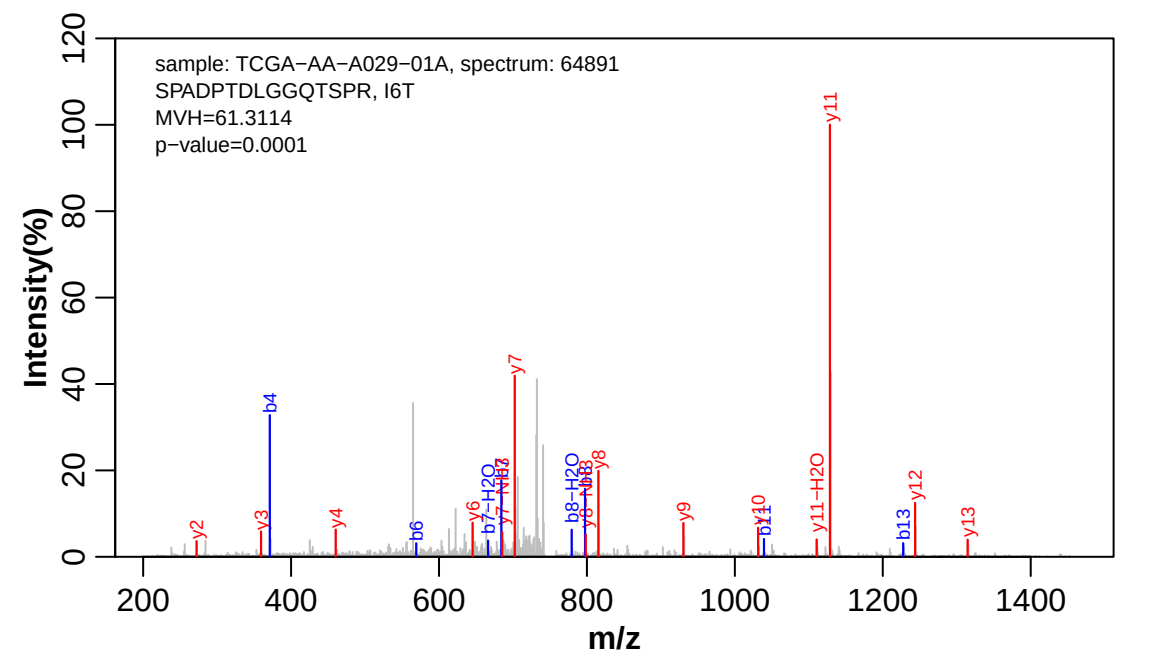

sample: TCGA−AA−A029−01A, spectrum: 75928
NTNSVPETAPAALPETR, K17R
MVH=43.0542
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b9−NH3
b13

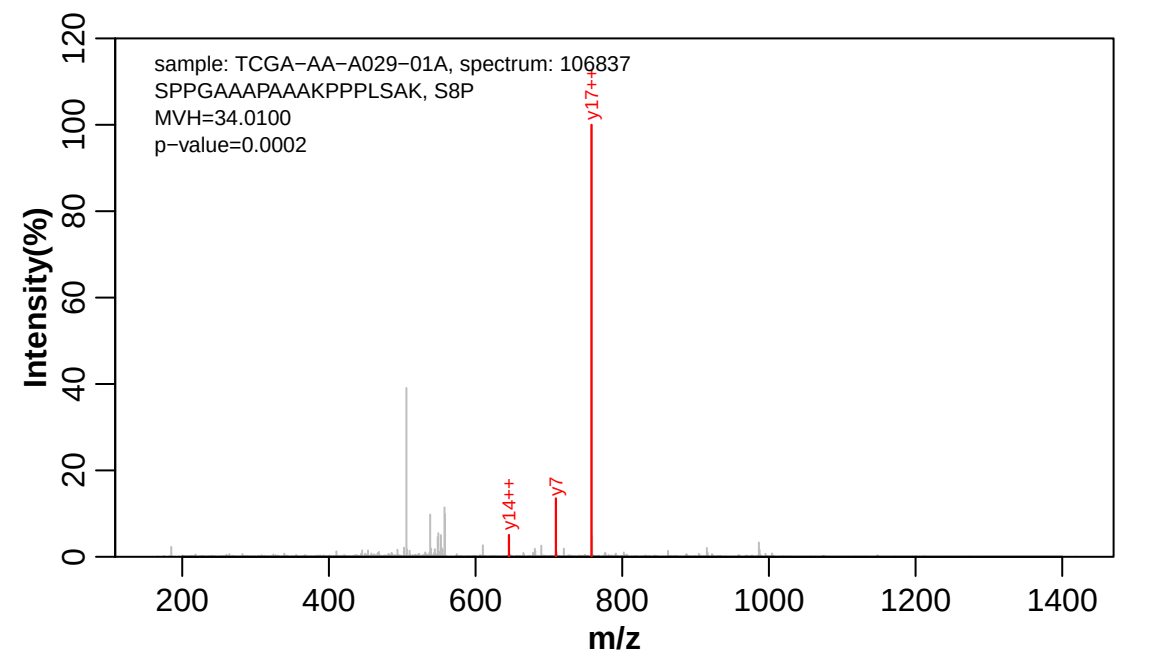

sample: TCGA−AA−A029−01A, spectrum: 150261
SAVGELSEDSSNVVHLLK, Q15H
MVH=32.8314
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y4−NH3
y5
y6
b7
b8
y9
y10
y10−NH3
b12
b12−H2O
y11
b13
b13−NH3
y12
b14
b14−H2O
b15
y15−NH3
b16
b17

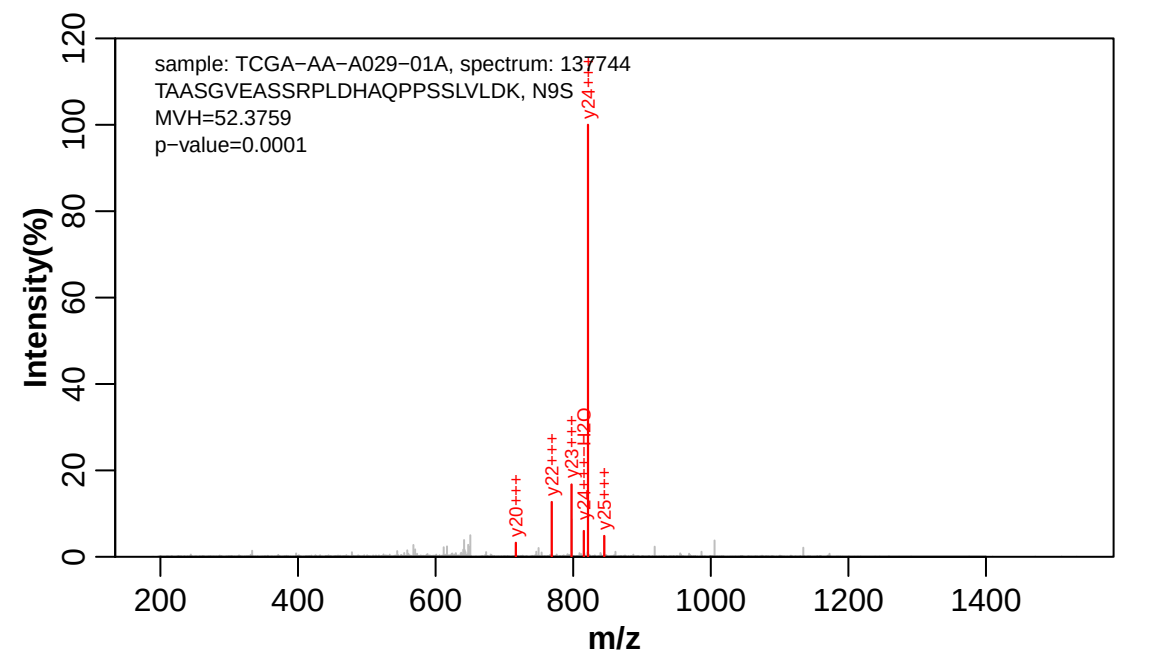

sample: TCGA−AA−A029−01A, spectrum: 59448
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=41.9402
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y6
y7
y8
y9
y10
y12
y13
y15
y17−H2O
b18
b17−NH3
b14
b11
b13
b6−H2O

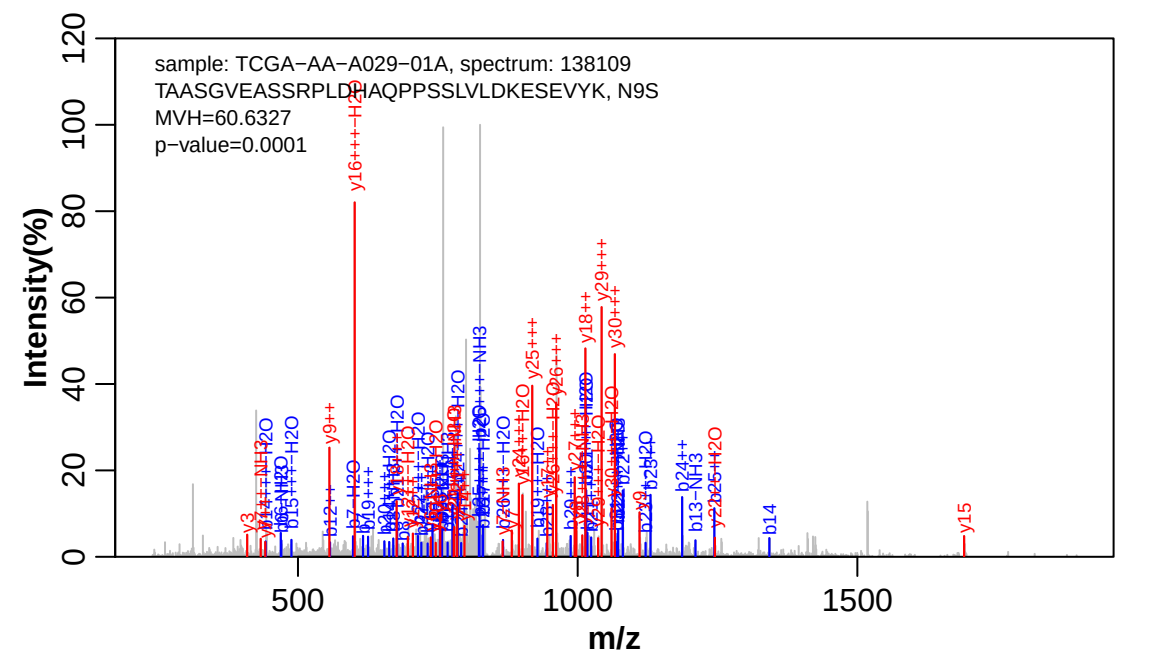

sample: TCGA−AA−A029−01A, spectrum: 139191
SEALPTDLPTPSAPDLTEPK, A10T
MVH=50.7974
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y10
y12−H2O
y13
y16
b13
b10
b18
y11
y8
b7−H2O
b7
b8−H2O
b8

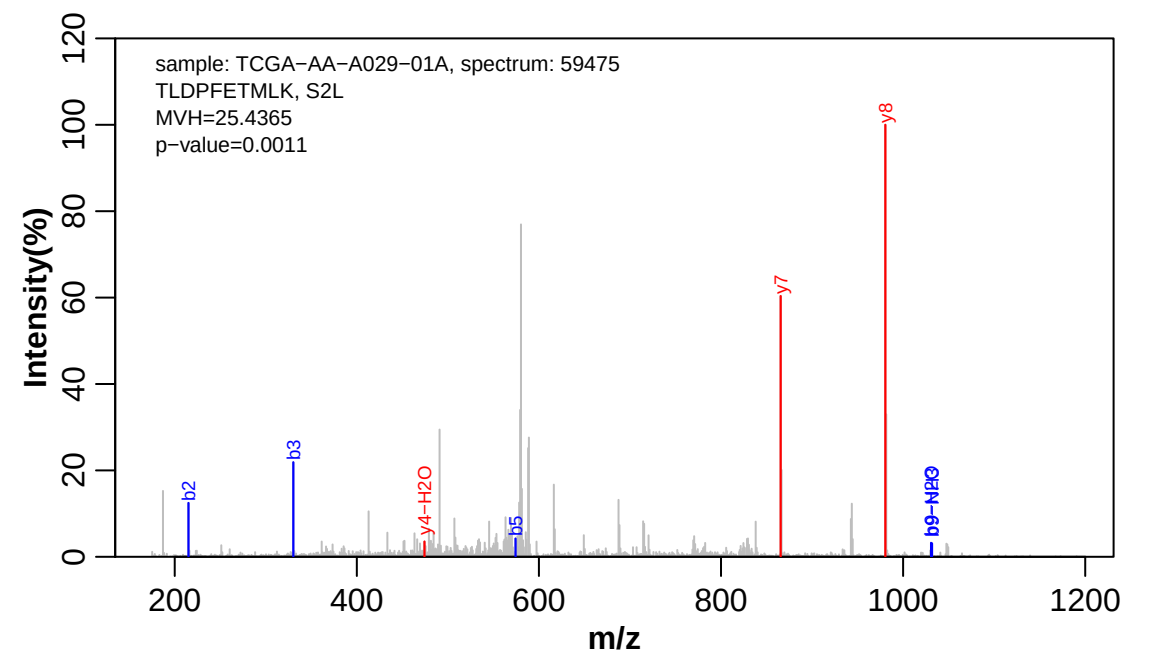

sample: TCGA−AA−A029−01A, spectrum: 40092
SELPLDPLPLPTEEGNPLLK, V10L
MVH=45.8377
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
y6−H2O
y6
b6
b8−H2O
b8
b10
y10
y12
y14
y15

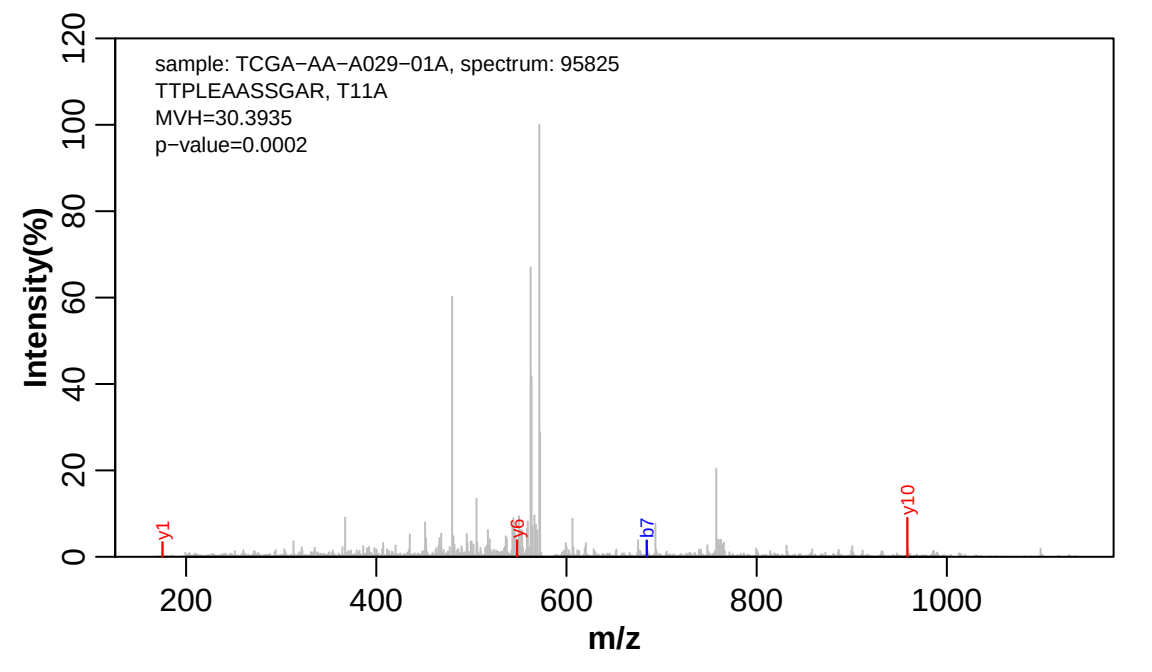

sample: TCGA−AA−A029−01A, spectrum: 64891
SPADPTDLGGQTSPR, I6T
MVH=61.3114
p−value=0.0001
Intensity(%)
m/z
y11
y7
b4
y8
y11−H2O
y12
b8−H2O
y9
y10
b11
b13
y13
y2
y3
y4
b6
y6
b7−H2O
b7−NH3
y7−NH3
b8−NH3
y8−NH3

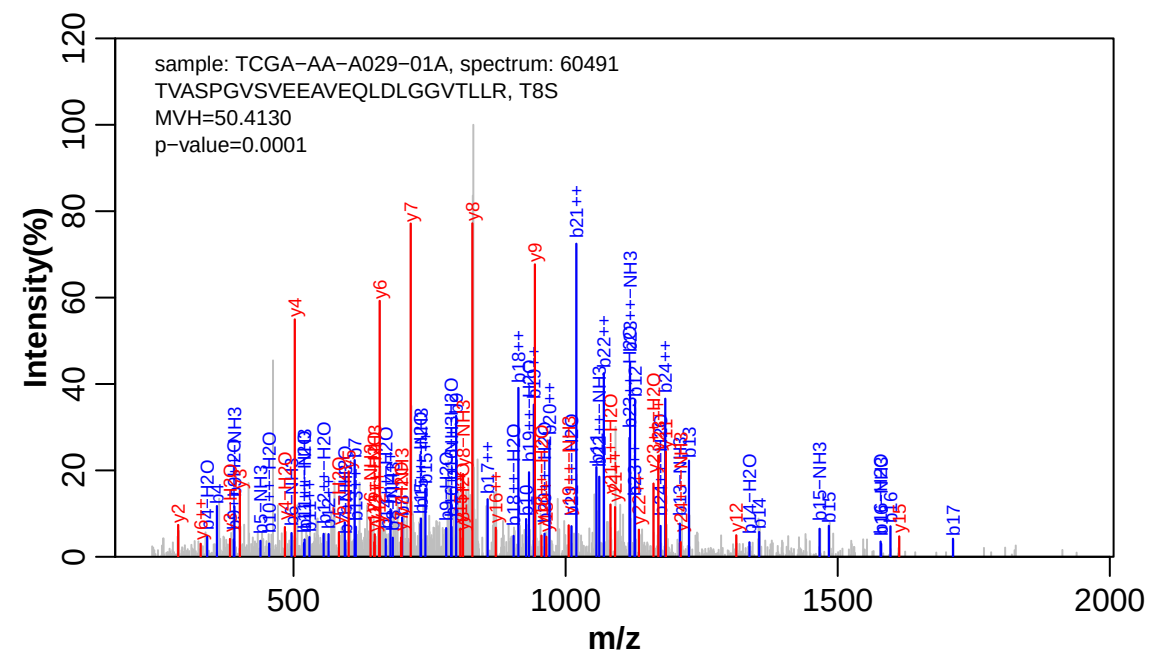

sample: TCGA−AA−A029−01A, spectrum: 106837
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.0100
p−value=0.0002
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

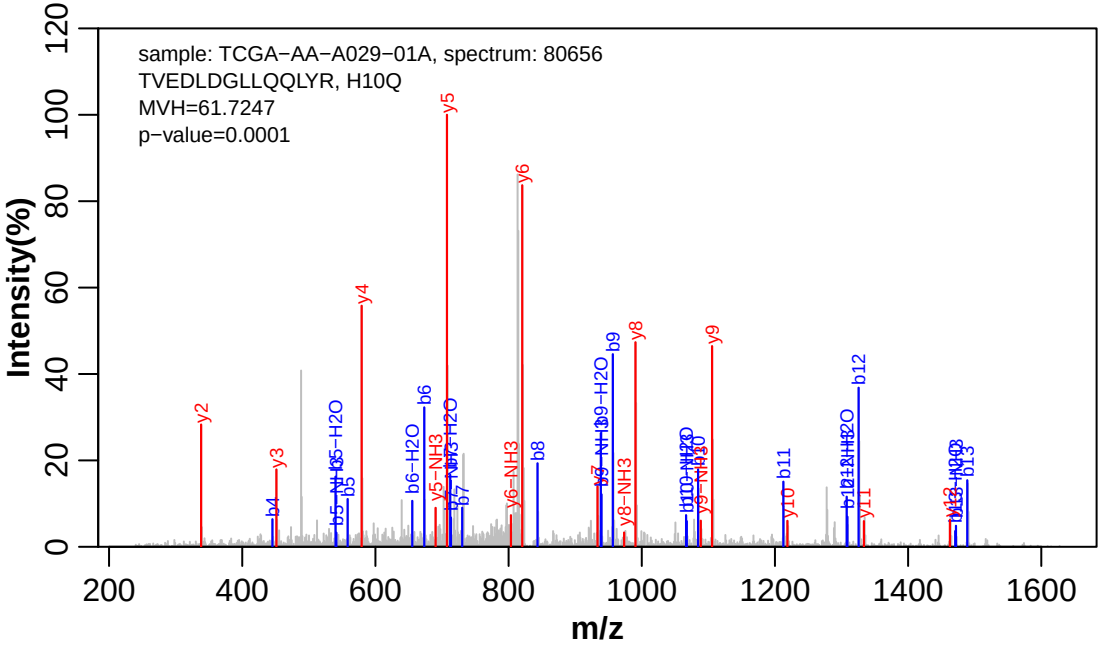

sample: TCGA−AA−A029−01A, spectrum: 137744
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=52.3759
p−value=0.0001
y24+++
y20+++
y22+++
y23+++
y24+++−H2O
y25+++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

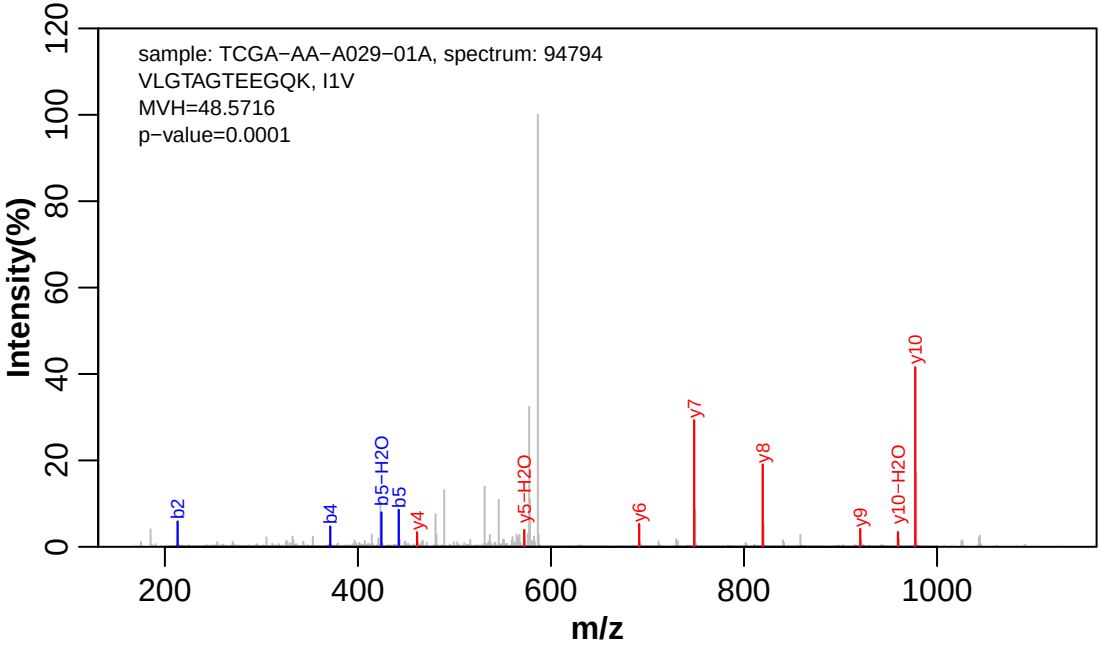

sample: TCGA−AA−A029−01A, spectrum: 138109
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=60.6327
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16+++−H2O
y9++
y18++
y29+++
y30+++
y25+++
y26+++
b24++
b13−NH3
y15
b14

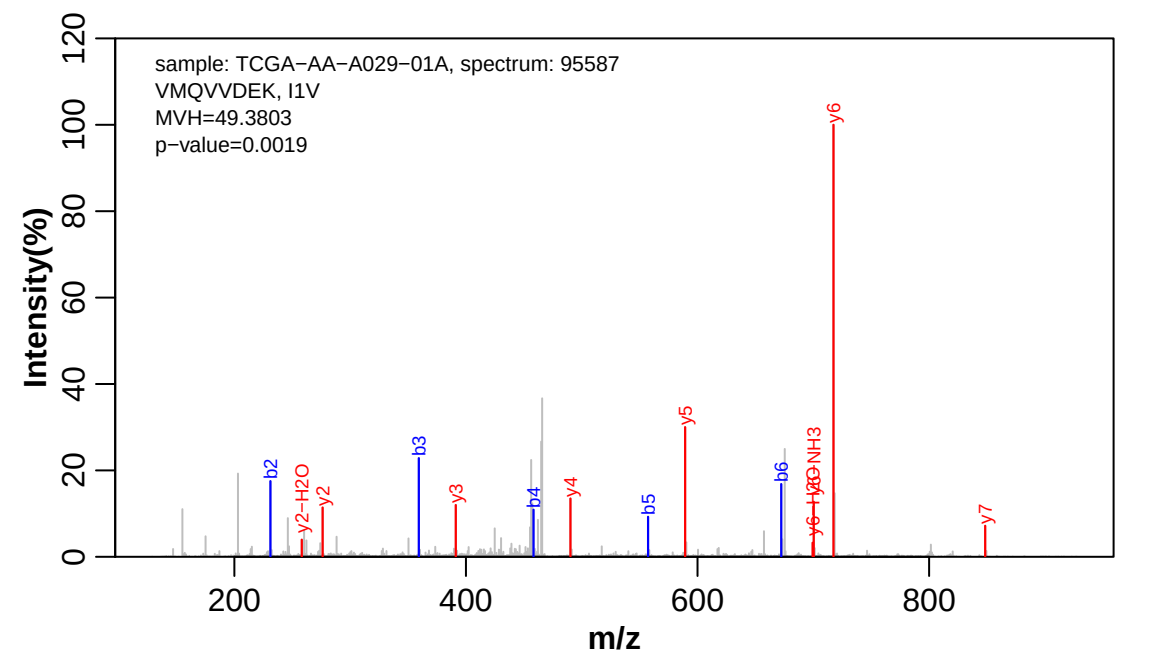

sample: TCGA−AA−A029−01A, spectrum: 59475
TLDPFETMLK, S2L
MVH=25.4365
p−value=0.0011
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4−H2O
b5
y7
y8

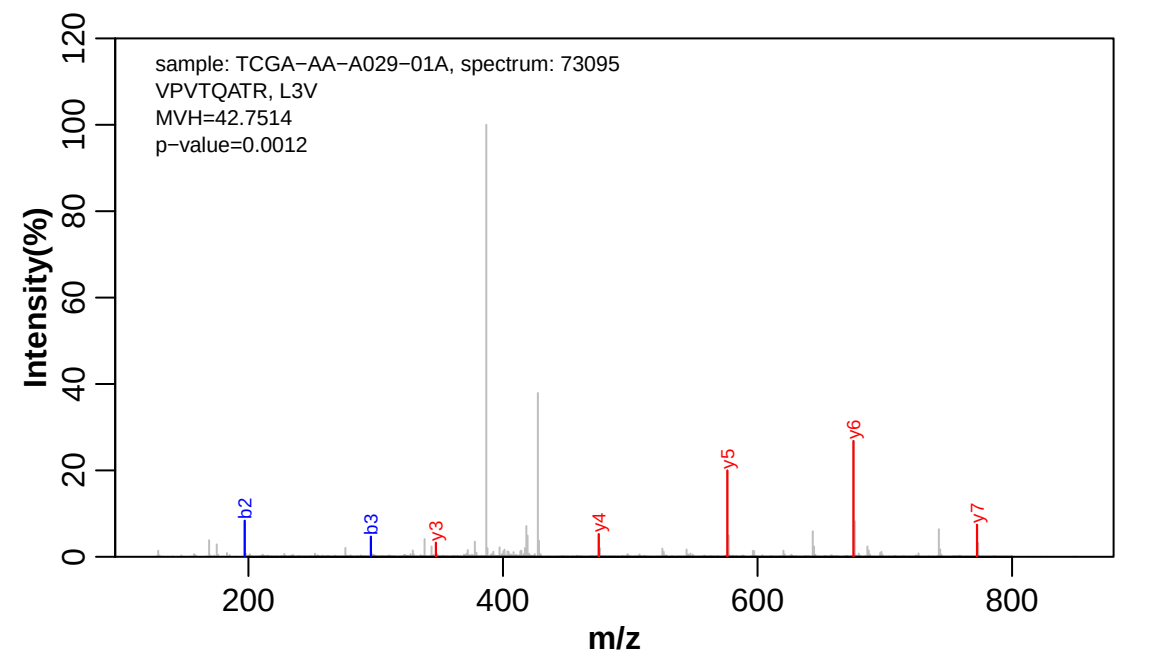

sample: TCGA−AA−A029−01A, spectrum: 95825
TTPLEAASSGAR, T11A
MVH=30.3935
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
y6
b7
y10

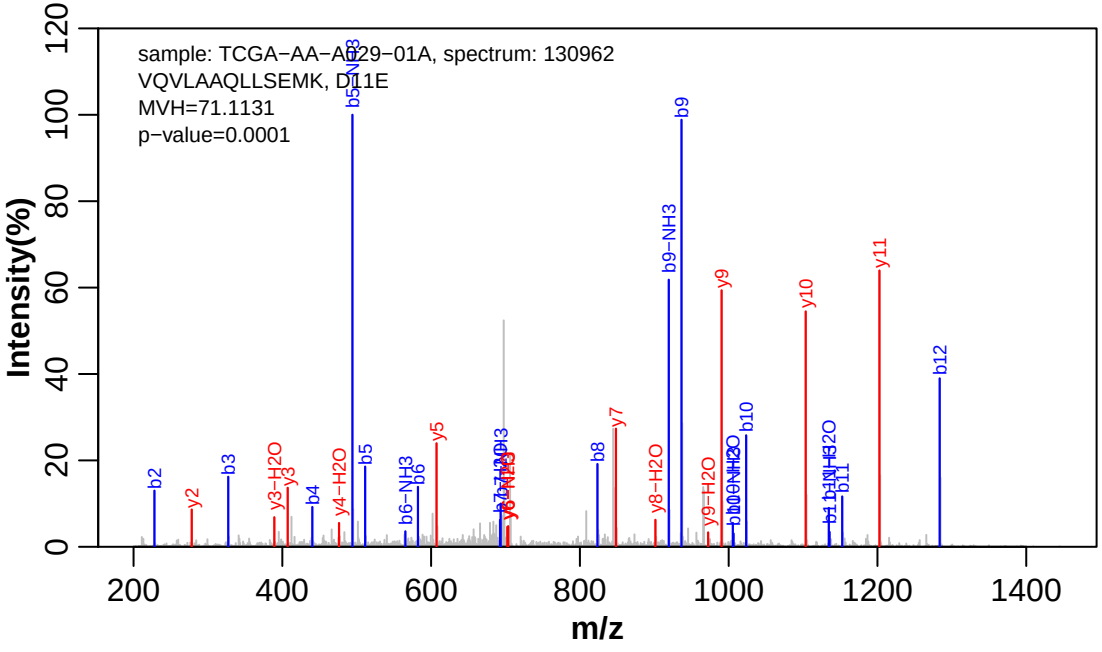

sample: TCGA−AA−A029−01A, spectrum: 60491
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=50.4130
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

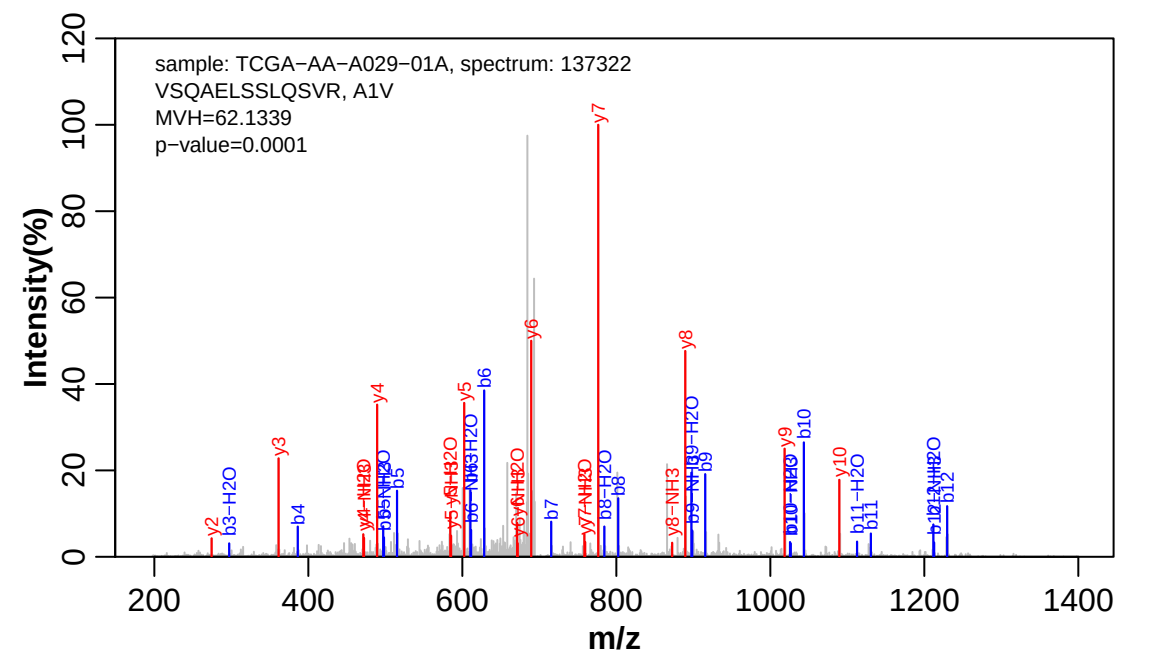

sample: TCGA−AA−A029−01A, spectrum: 80656
TVEDLDGLLQQLYR, H10Q
MVH=61.7247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
b6
b6−H2O
y5
y5−NH3
y6
y6−NH3
b8
b9
b9−H2O
y8
y8−NH3
y9
b11
y10
b12
y11
b13

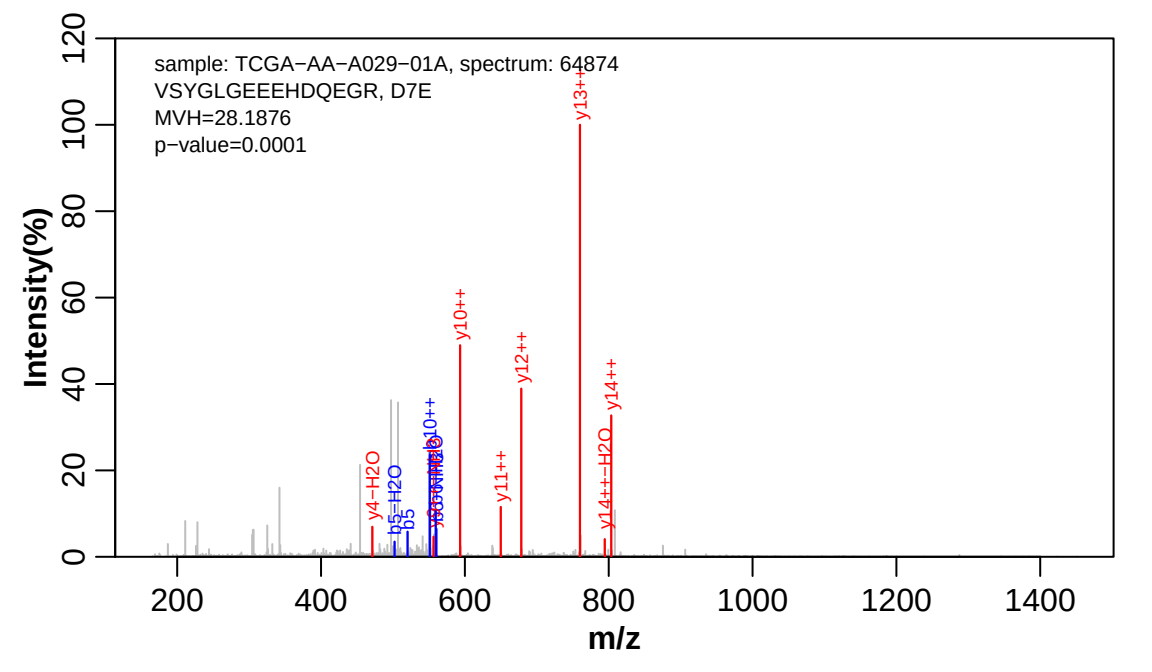

sample: TCGA−AA−A029−01A, spectrum: 94794
VLGTAGTEEGQK, I1V
MVH=48.5716
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
b5−H2O
b5
y4
y5−H2O
y6
y7
y8
y9
y10−H2O
y10

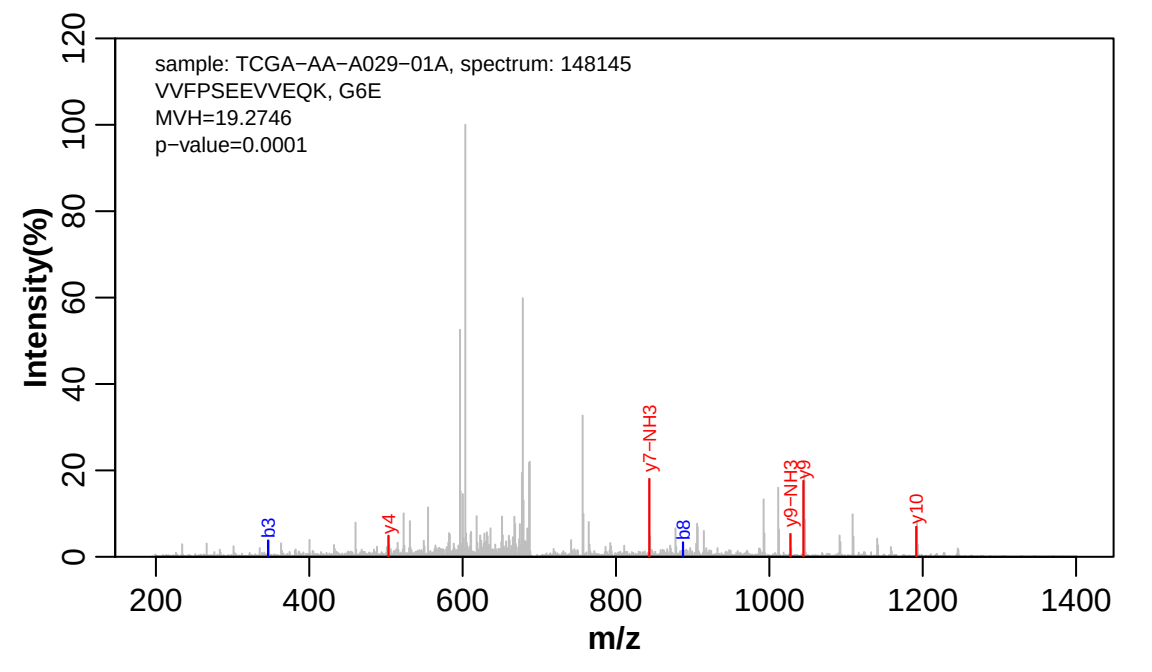

sample: TCGA−AA−A029−01A, spectrum: 95587
VMQVVDEK, I1V
MVH=49.3803
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6−NH3
y6
y7

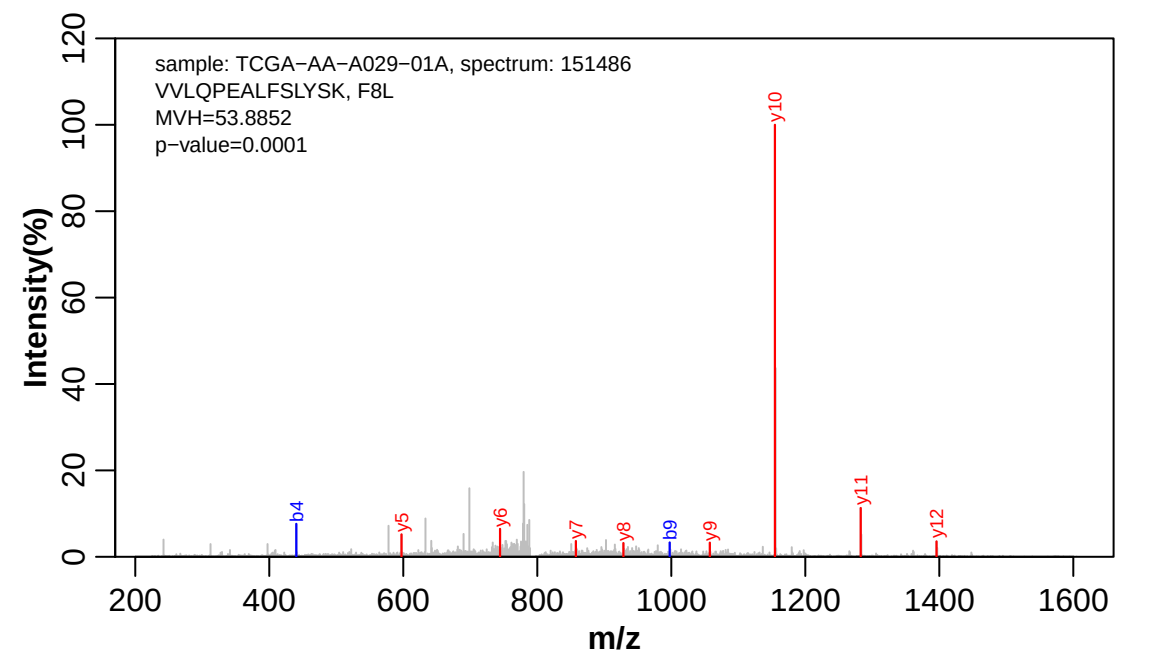

sample: TCGA−AA−A029−01A, spectrum: 73095
VPVTQATR, L3V
MVH=42.7514
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

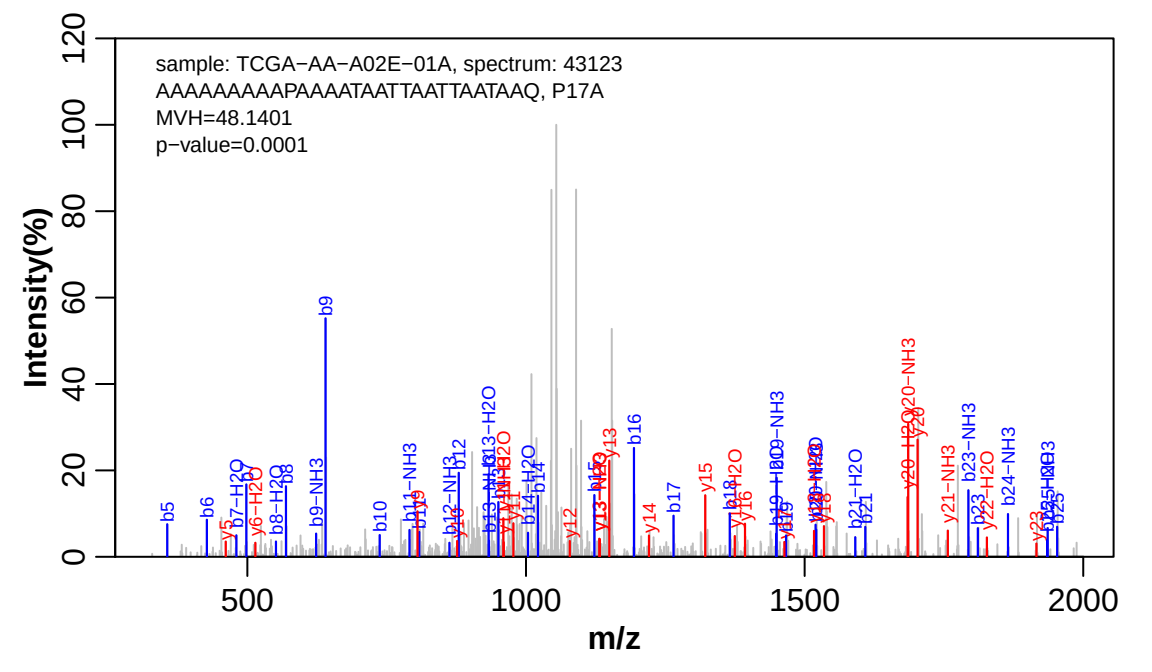

sample: TCGA−AA−A029−01A, spectrum: 130962
VQVLAAQLLSEMK, D11E
MVH=71.1131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5−NH3
b5
b6
y5
b8
y7
y8−H2O
b9−NH3
b9
y9−H2O
y9
b10
y10
b11
y11
b12

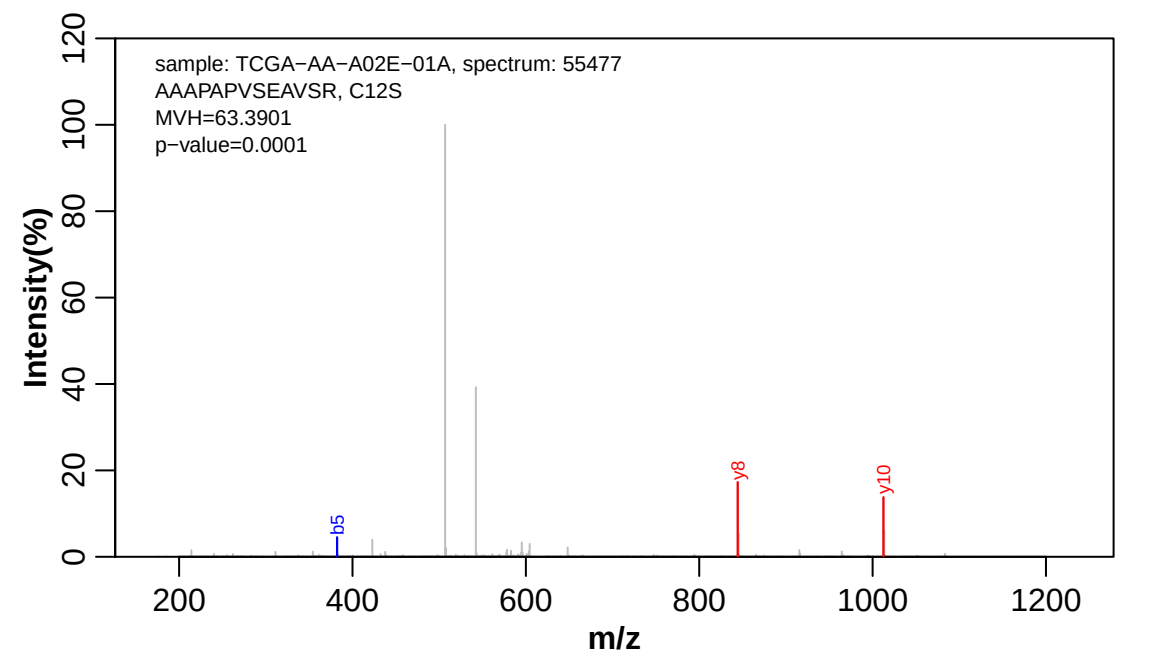

sample: TCGA−AA−A029−01A, spectrum: 137322
VSQAELSSLQSVR, A1V
MVH=62.1339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y8
y4
y5
b6
y3
b7
y9
b10
y10
b12
b8
b9
b5
b4
y2
b3−H2O
b11−H2O
b11
y8−NH3
y9−NH3
y7−H2O
y6−H2O
y5−H2O
y5−NH3
y6−NH3
y7−NH3
b8−H2O
b9−H2O
b10−H2O
b12−H2O
b12−NH3
b5−NH3
b6−NH3
y4−NH3
y4−H2O

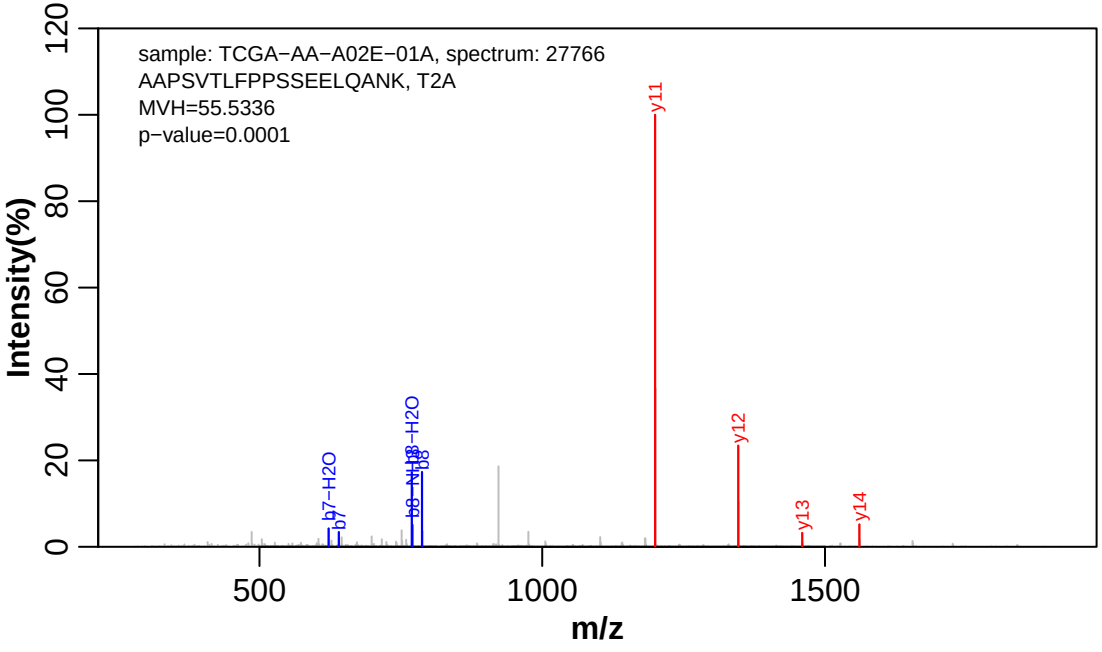

sample: TCGA−AA−A029−01A, spectrum: 64874
VSYGLGEEEHDQEGR, D7E
MVH=28.1876
p−value=0.0001
Intensity(%)
m/z
y13++
y10++
y12++
y14++
y11++
y14++−H2O
y4−H2O
b5−H2O
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

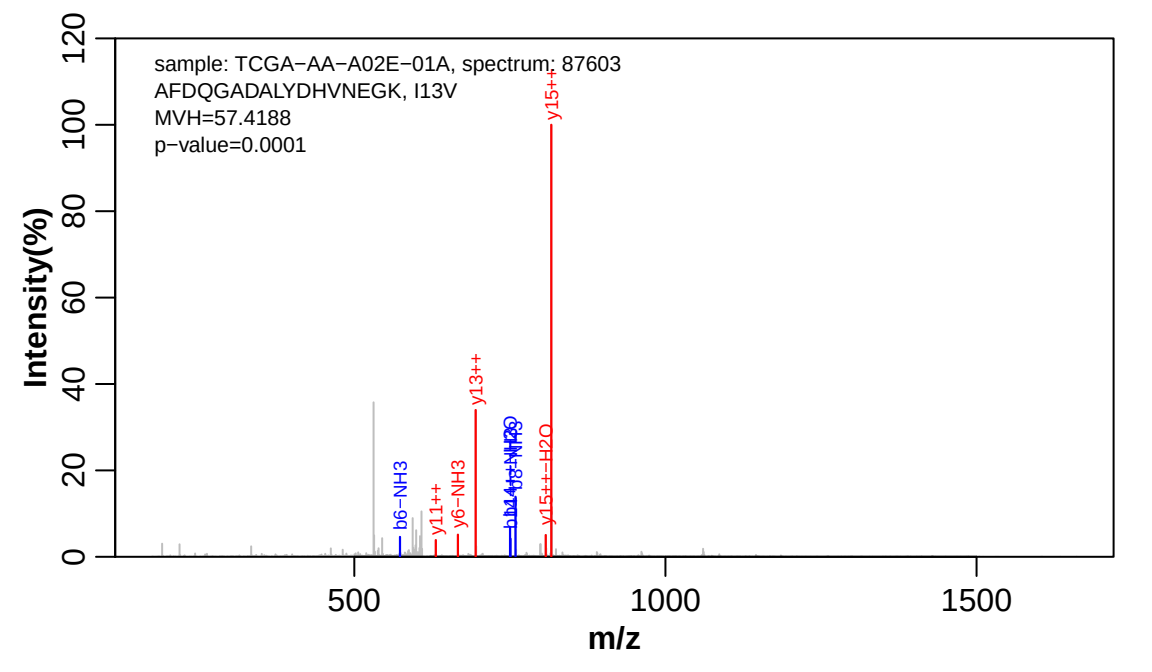

sample: TCGA−AA−A029−01A, spectrum: 148145
VVFPSEEVVEQK, G6E
MVH=19.2746
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b3
y4
y7−NH3
b8
y9−NH3
y9
y10

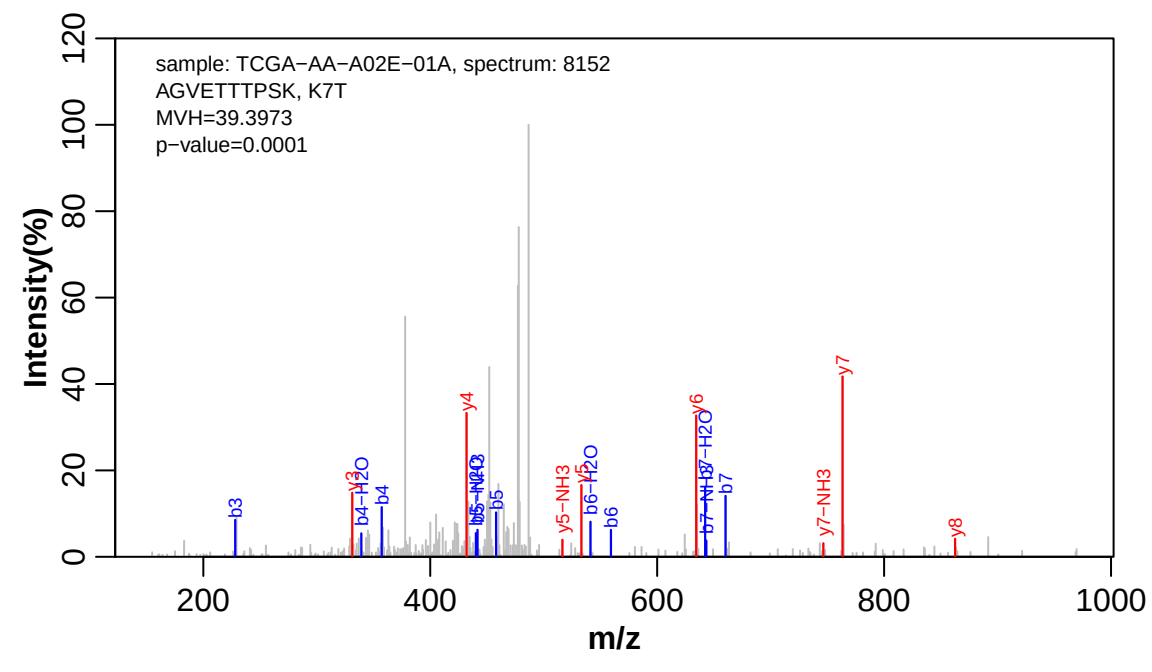

sample: TCGA−AA−A029−01A, spectrum: 151486
VVLQPEALFSLYSK, F8L
MVH=53.8852
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
y7
y8
b9
y9
y10
y11
y12

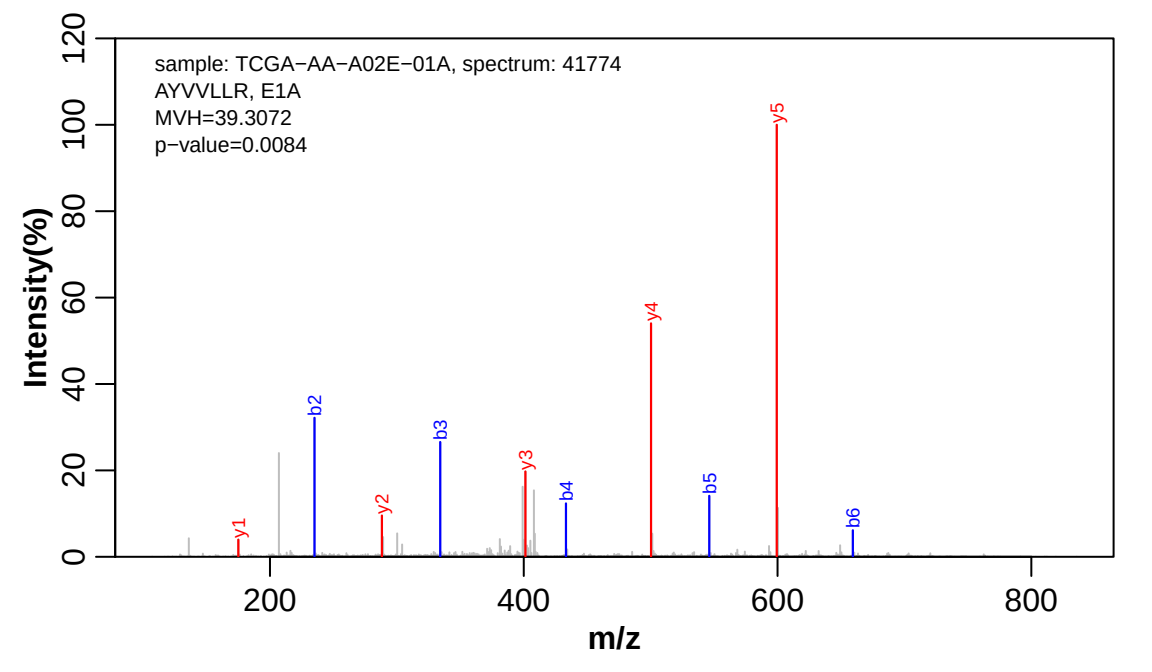

sample: TCGA−AA−A02E−01A, spectrum: 43123
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=48.1401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
b6
y5
b7−H2O
b7
y6−H2O
b8−H2O
b8
b9−NH3
b9
b10
b11−NH3
b11
b12−NH3
b12
b13−NH3
b13−H2O
b14−H2O
b14
y12
y13−NH3
y13
b16
y14
b17
y15
b18
y16
b19−NH3
b19
b21−H2O
b21
y20−NH3
y20
y21−NH3
b23−NH3
b23
y22−H2O
b24−NH3

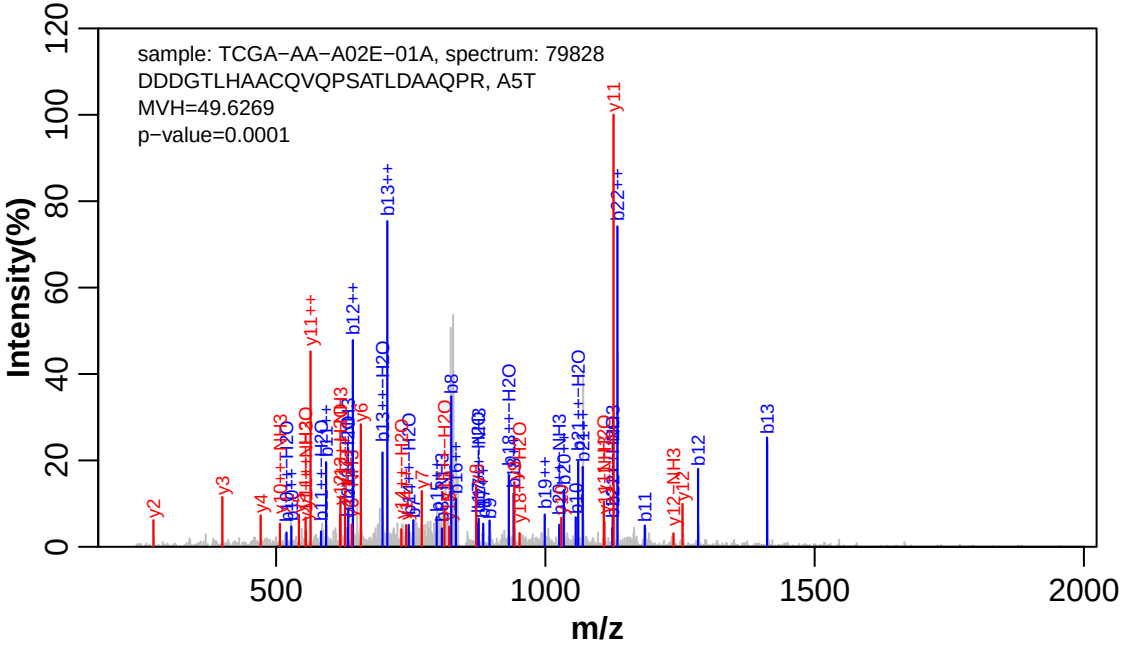

sample: TCGA−AA−A02E−01A, spectrum: 55477
AAAPAPVSEAVSR, C12S
MVH=63.3901
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

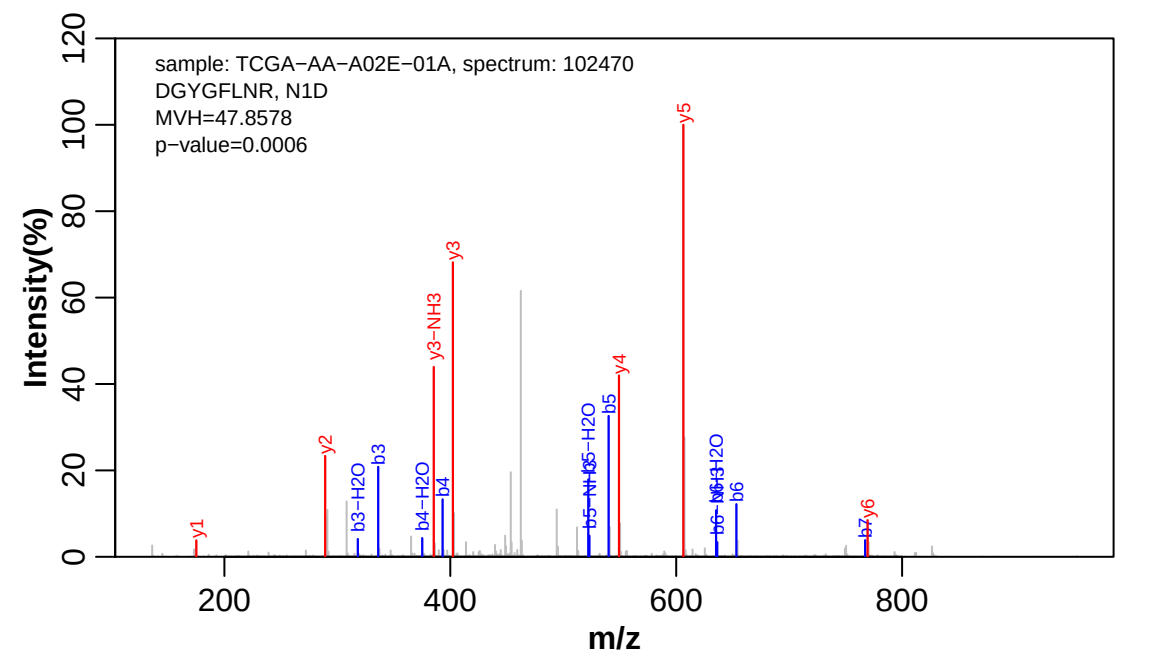

sample: TCGA−AA−A02E−01A, spectrum: 27766
AAPSVTLFPPSSEELQANK, T2A
MVH=55.5336
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b8
b8−NH3
b8−H2O

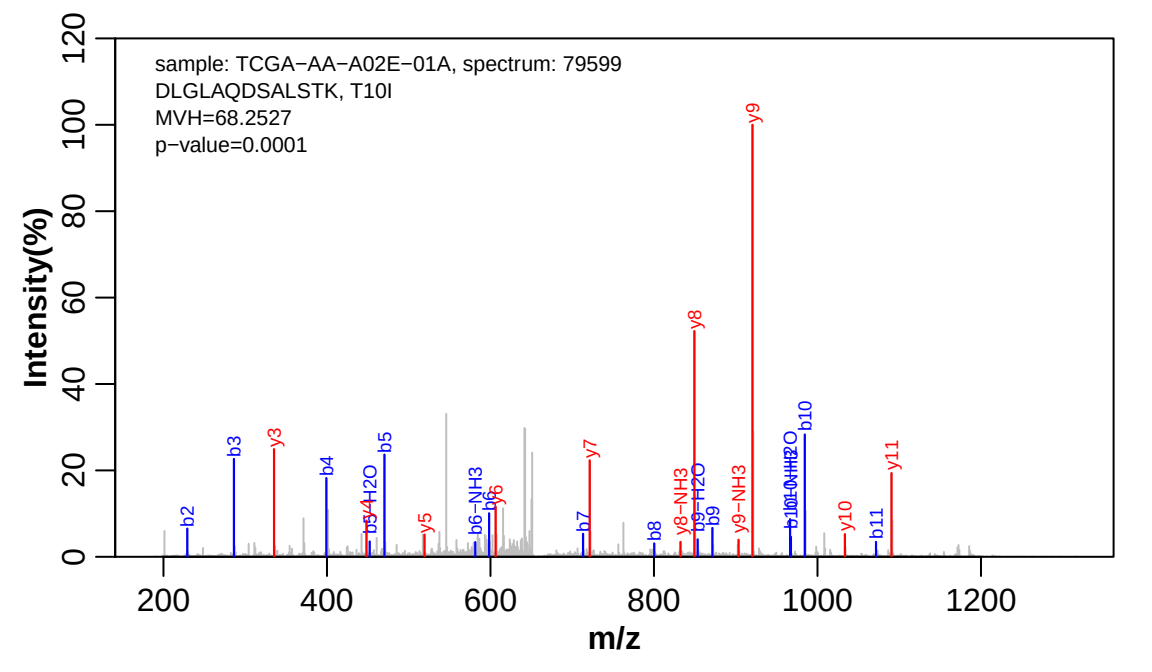

sample: TCGA−AA−A02E−01A, spectrum: 87603
AFDQGADALYDHVNEGK, I13V
MVH=57.4188
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b6−NH3
y11++
y6−NH3
y13++
y15++
y15++−H2O

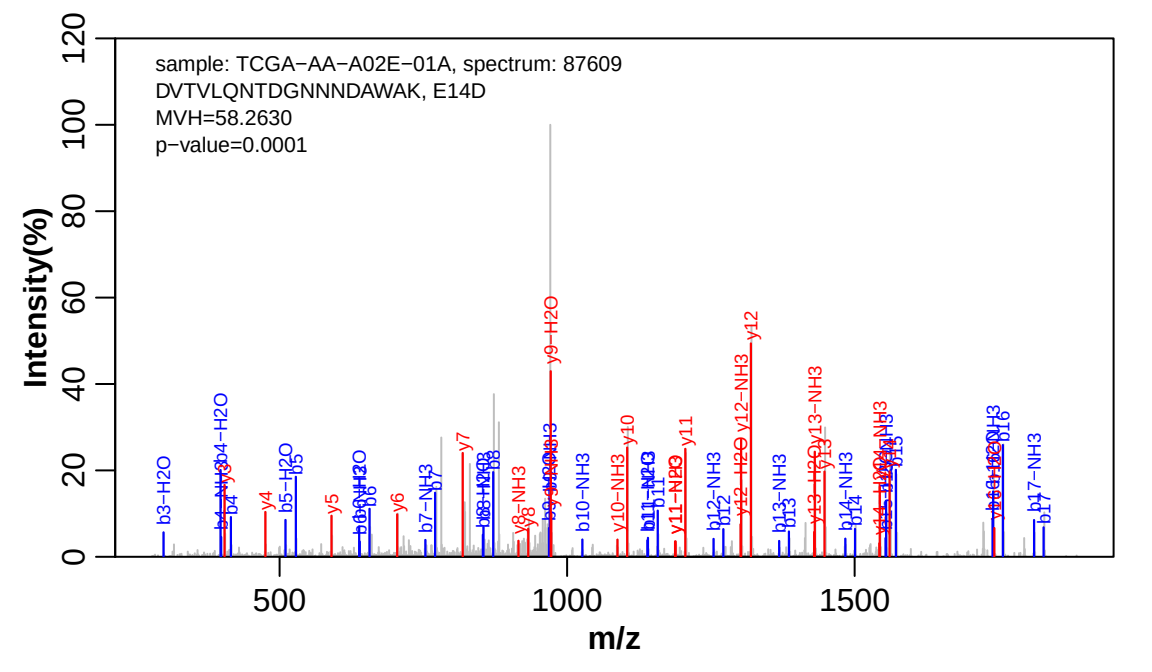

sample: TCGA−AA−A02E−01A, spectrum: 8152
AGVETTTPSK, K7T
MVH=39.3973
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3
y3
b4−H2O
b4
y4
b5−NH3
b5
y5−NH3
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y7−NH3
y8

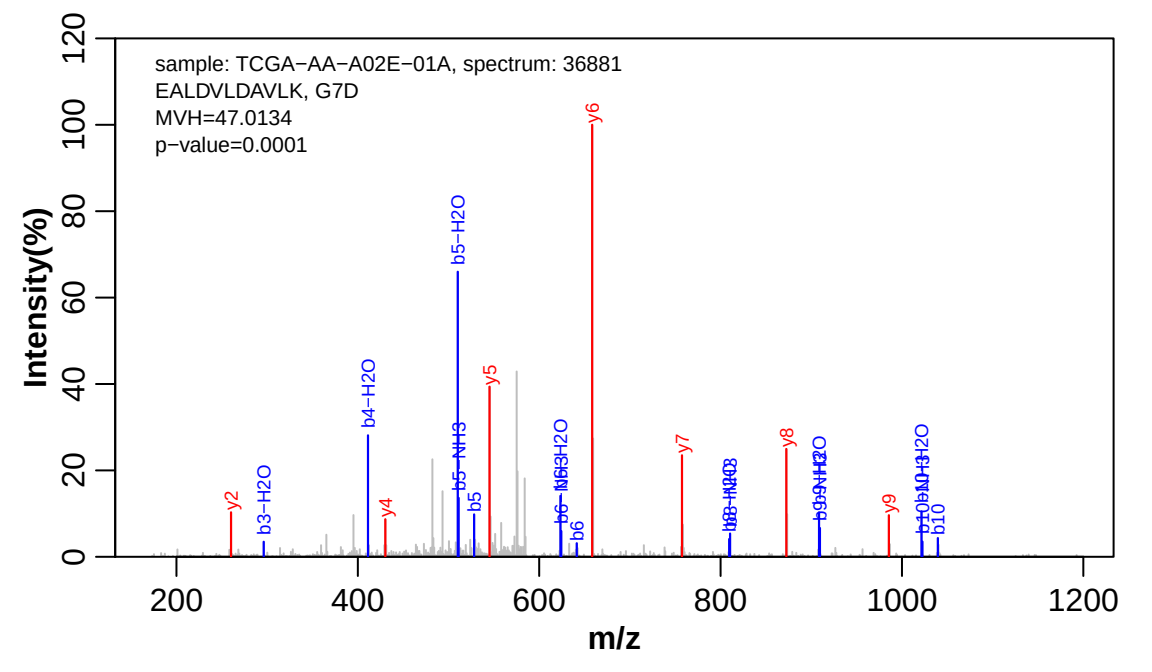

sample: TCGA−AA−A02E−01A, spectrum: 41774
AYVVLLR, E1A
MVH=39.3072
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

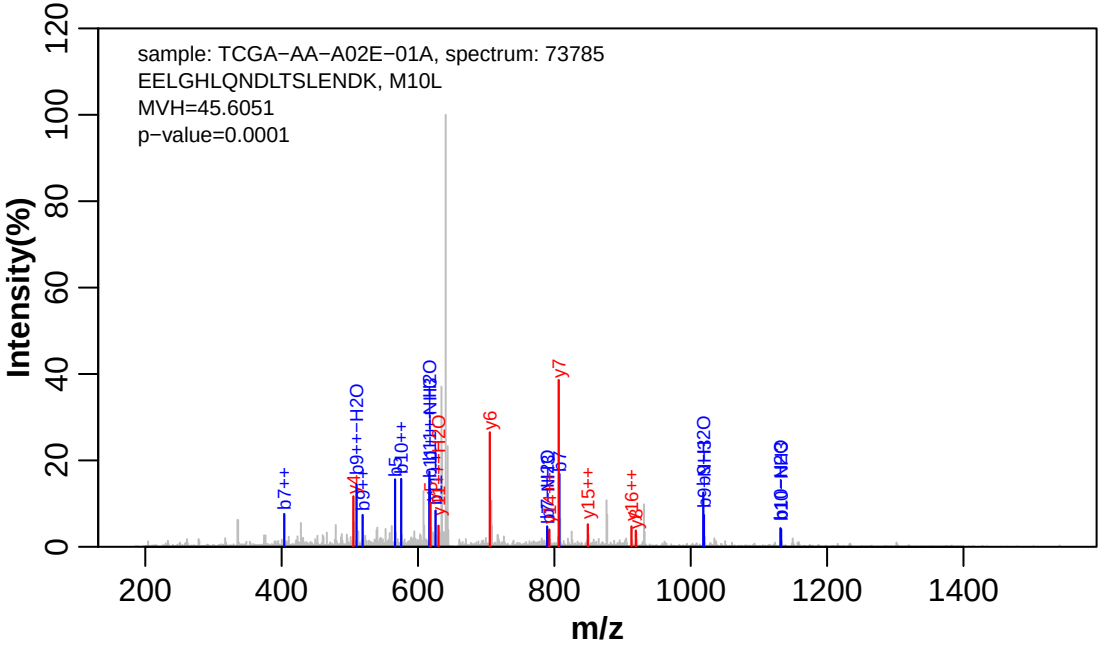

sample: TCGA−AA−A02E−01A, spectrum: 79828
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=49.6269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y6
y7
y11
y11++
y12
y12−NH3
b11
b12
b12++
b13
b13++
b13++−H2O
b19++
b21++−H2O
b22++
b8

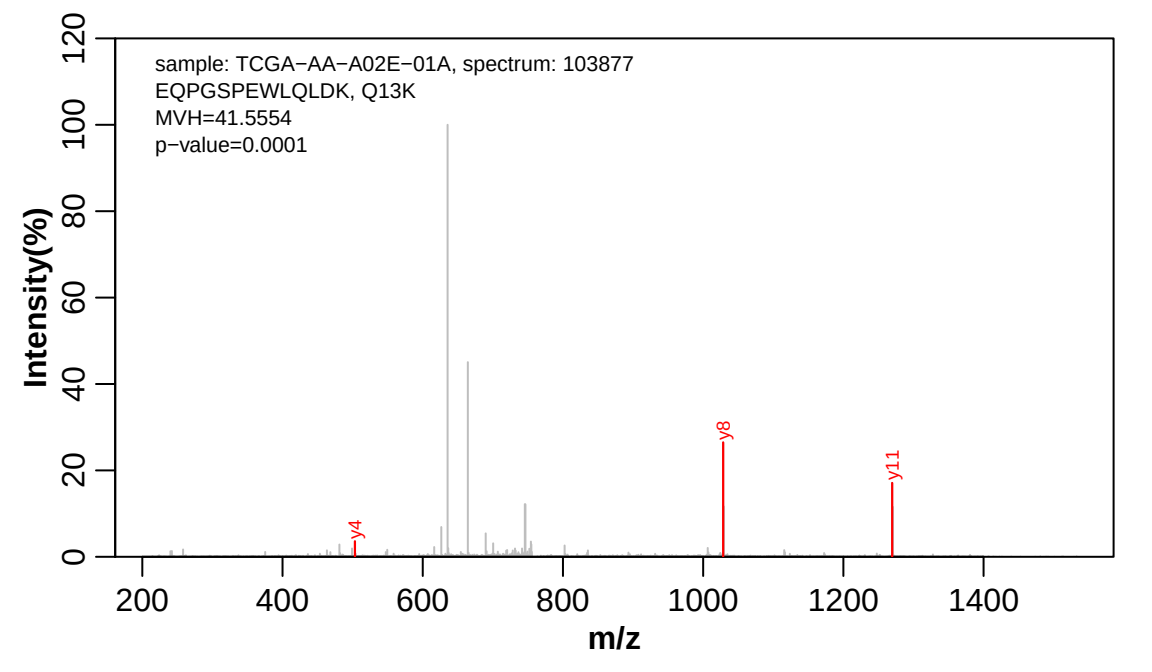

sample: TCGA−AA−A02E−01A, spectrum: 102470
DGYGFLNR, N1D
MVH=47.8578
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−H2O
b5
y4
y5
b6
b7
y6

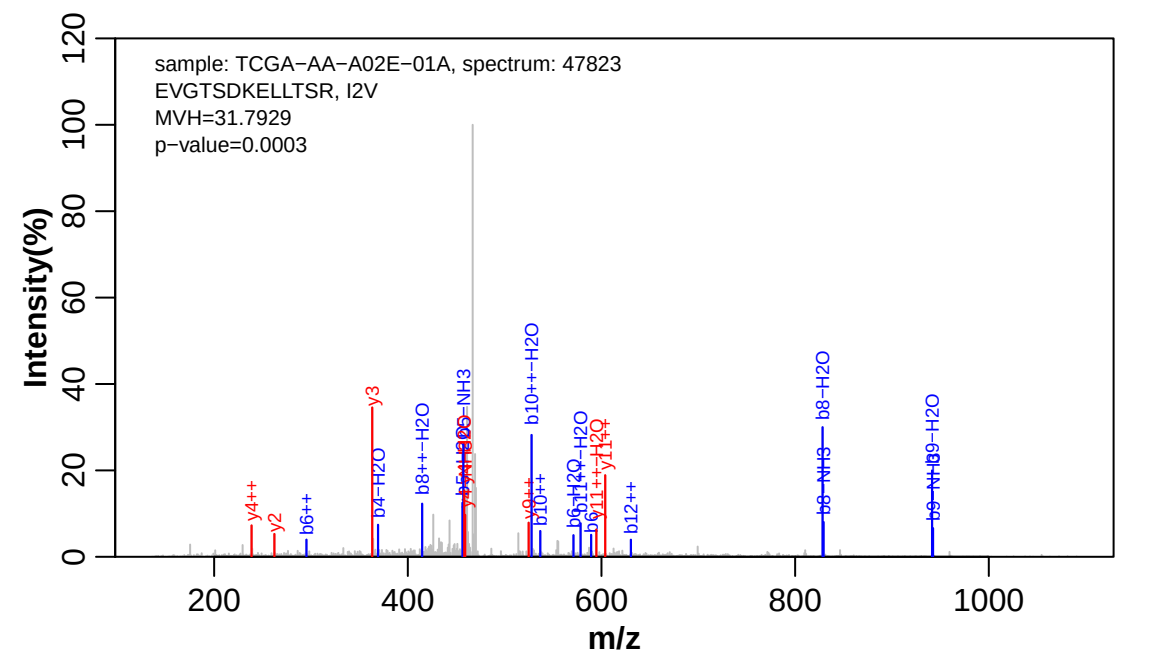

sample: TCGA−AA−A02E−01A, spectrum: 79599
DLGLAQDSALSTK, T10I
MVH=68.2527
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4
b5
b5/4−H2O
y5
b6−NH3
b6
y6
y7
b7
b8
y8−NH3
b9−H2O
b9
y8
y9−NH3
y9
b10−NH3
b10−H2O
b10
y10
b11
y11

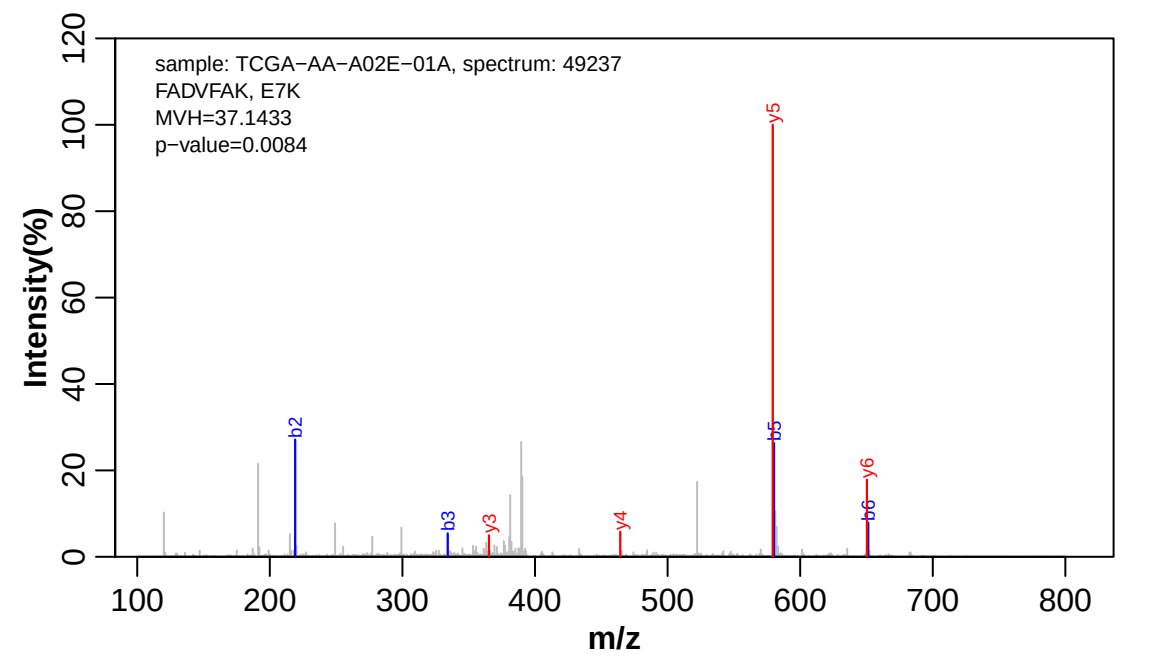

sample: TCGA−AA−A02E−01A, spectrum: 87609
DVTVLQNTDGNNNDAWAK, E14D
MVH=58.2630
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y4
b5−H2O
y5
y6
b7−NH3
y7
y9−H2O
b10−NH3
y10−NH3
y10
y11
b12−NH3
y12−NH3
y12
b13−NH3
y13−NH3
b14−NH3
b17−NH3

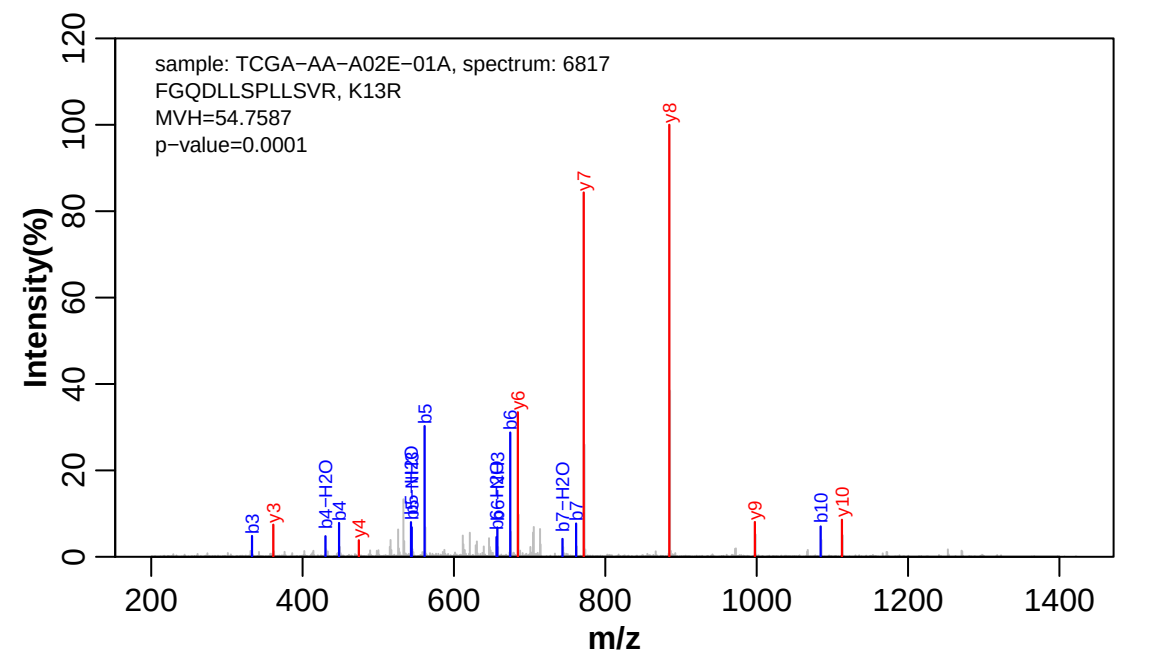

sample: TCGA−AA−A02E−01A, spectrum: 36881
EALDVLDAVLK, G7D
MVH=47.0134
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6
y6
y7
y8
y9
b10

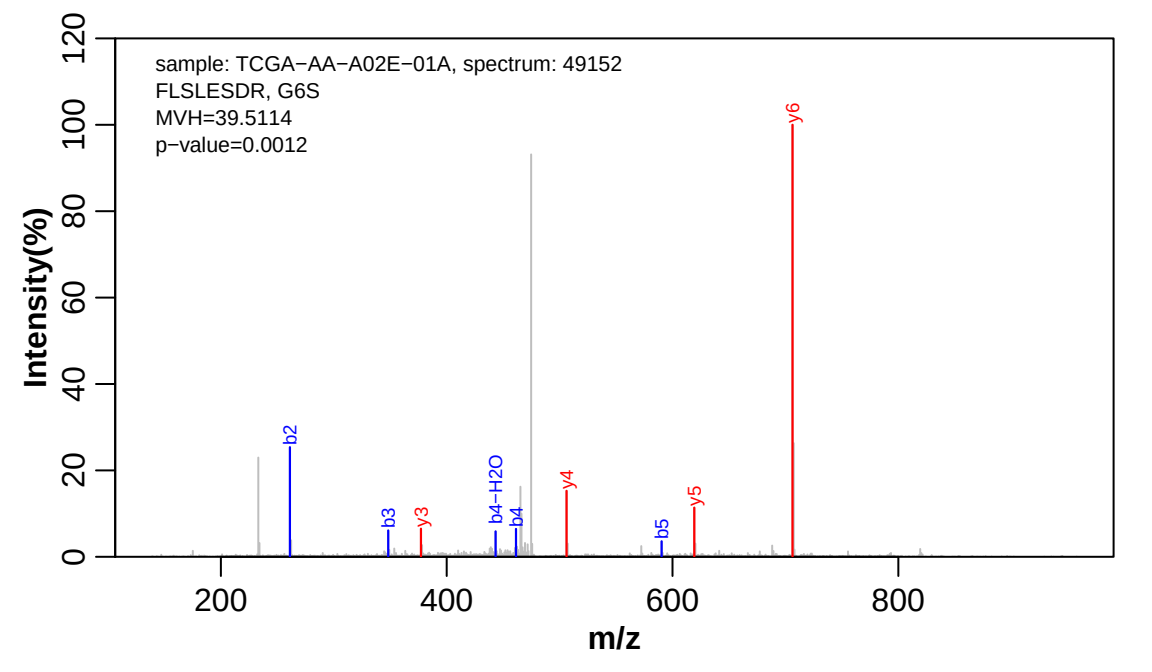

sample: TCGA−AA−A02E−01A, spectrum: 73785
EELGHLQNDLTSLENDK, M10L
MVH=45.6051
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b7++
b9++−H2O
y4
b5++
b10++
y6
y7
y15++
y16++
b9++−H2O
b10−NH3

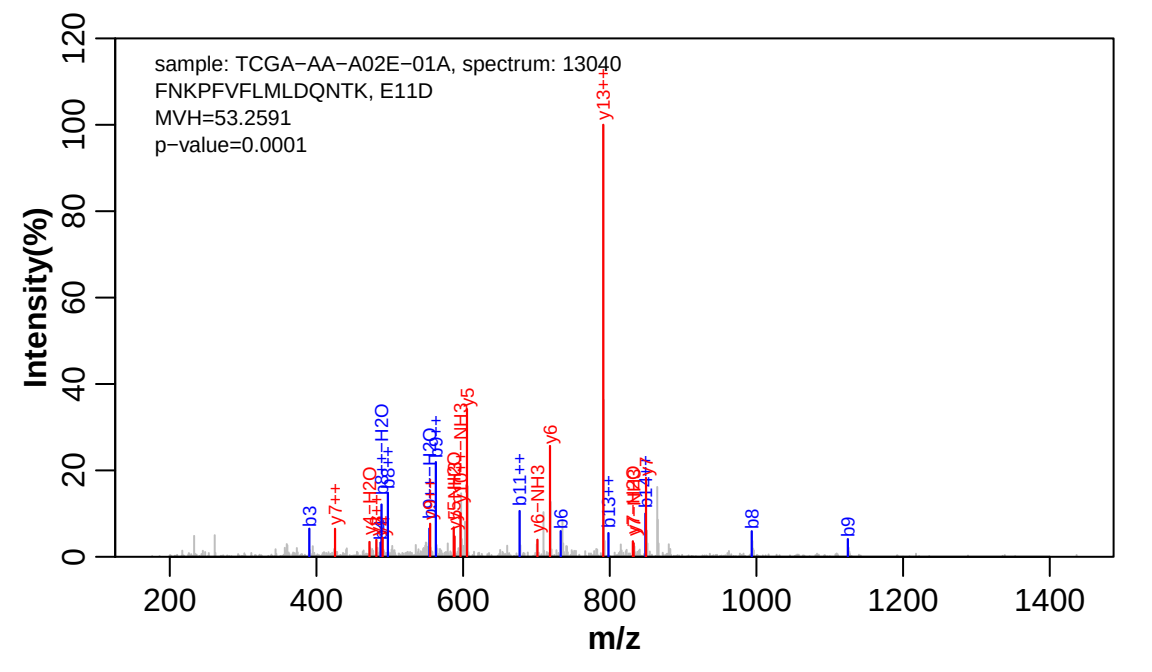

sample: TCGA−AA−A02E−01A, spectrum: 103877
EQPGSPEWLQLDK, Q13K
MVH=41.5554
p−value=0.0001
y4
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

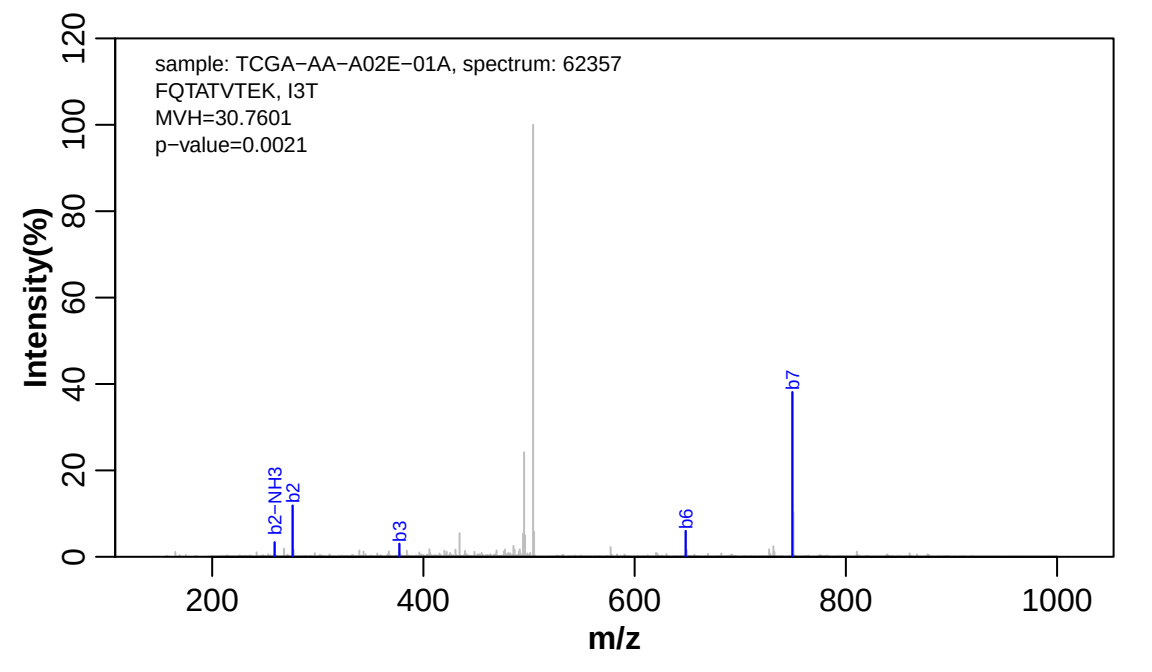

sample: TCGA−AA−A02E−01A, spectrum: 47823
EVGTSDKELLTSR, I2V
MVH=31.7929
p−value=0.0003
Intensity(%)
m/z
y4++
y2
b6++
y3
b4−H2O
b8++−H2O
b5++−NH3
y7++−H2O
y8++
b10++
b10++−H2O
b6−H2O
b11++−H2O
y11++−H2O
b12++
b8−H2O
b8−NH3
b9−H2O
b9−NH3

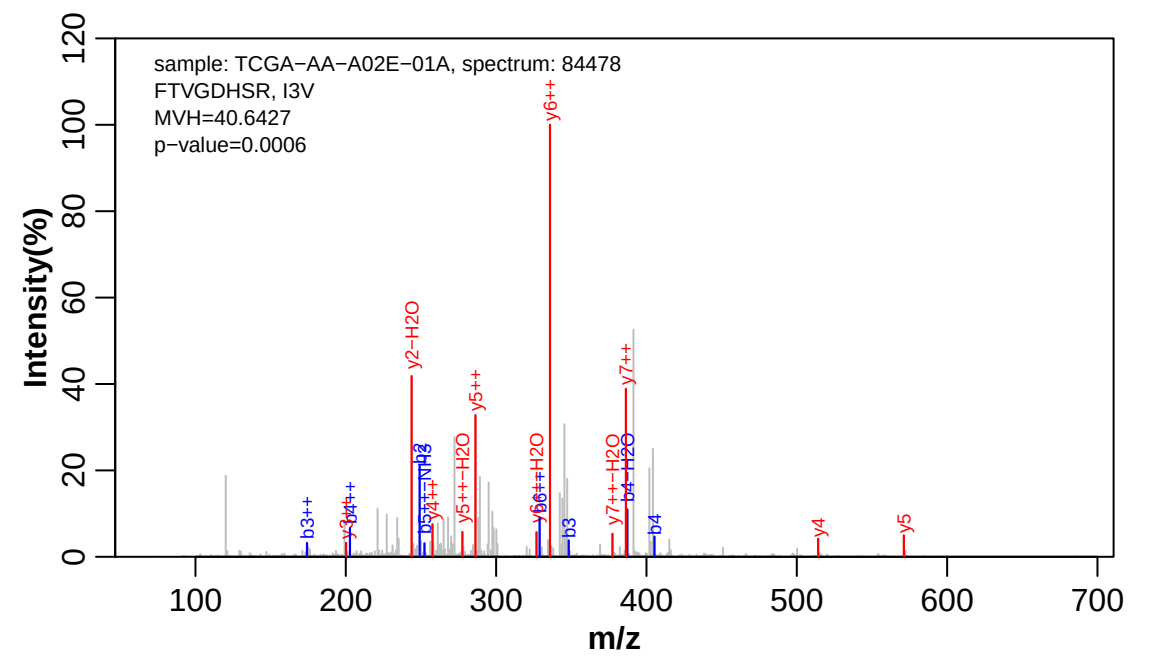

sample: TCGA−AA−A02E−01A, spectrum: 49237
FADVFAK, E7K
MVH=37.1433
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

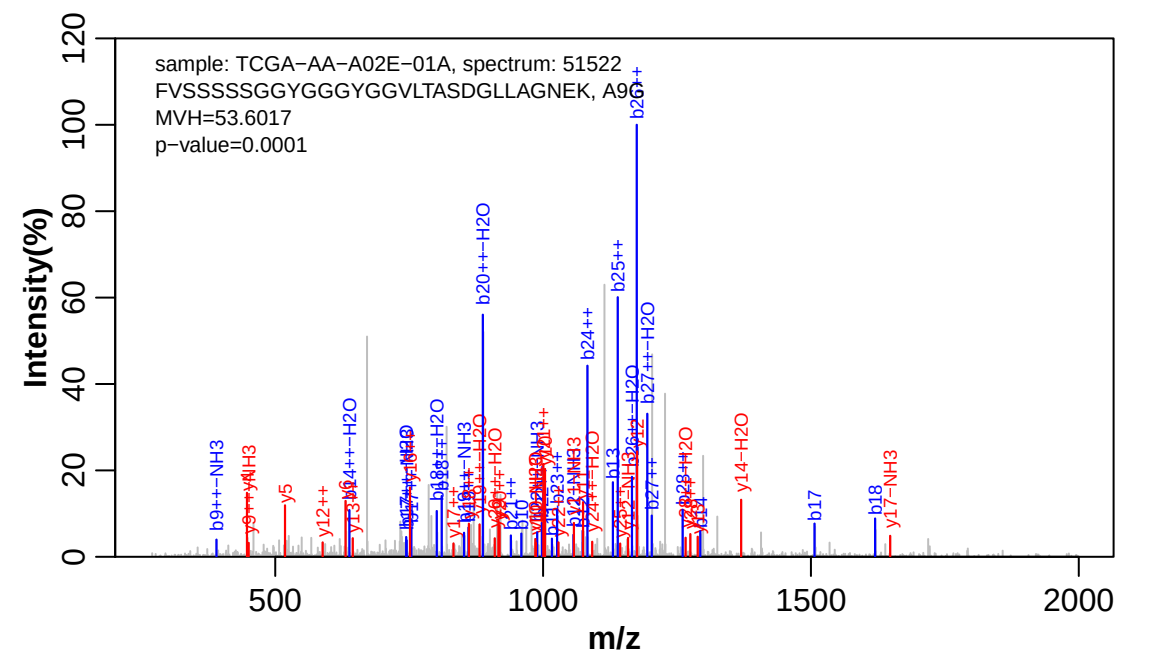

sample: TCGA−AA−A02E−01A, spectrum: 6817
FGQDLLSPLLSVR, K13R
MVH=54.7587
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

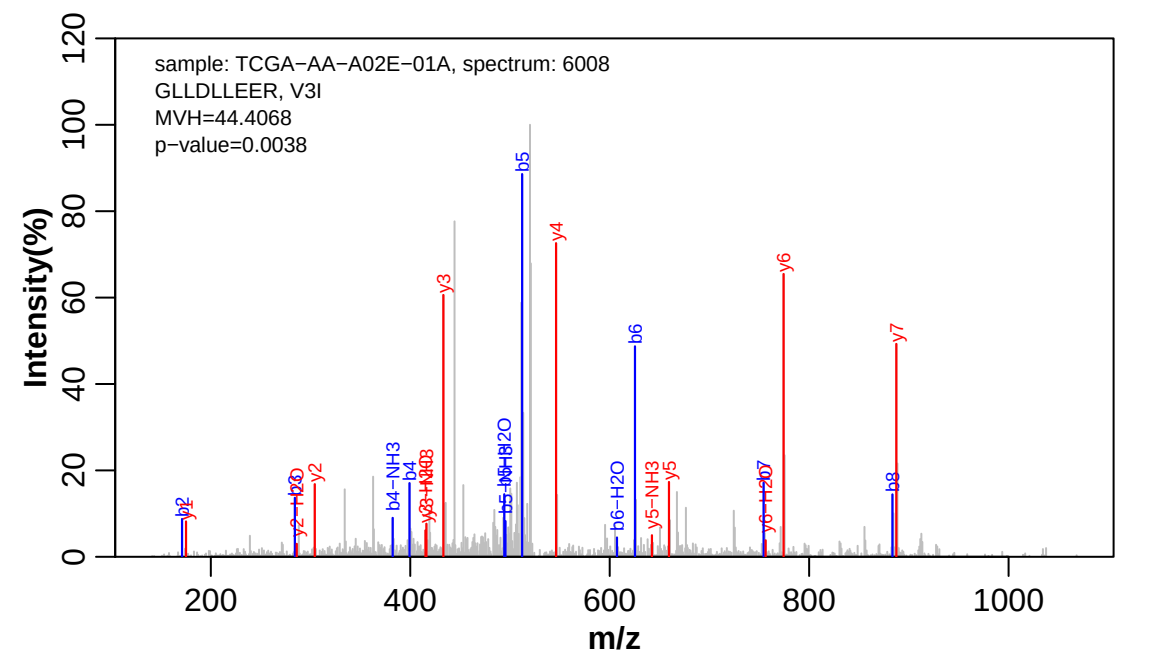

sample: TCGA−AA−A02E−01A, spectrum: 49152
FLSLESDR, G6S
MVH=39.5114
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4−H2O
b4
y4
b5
y5
y6

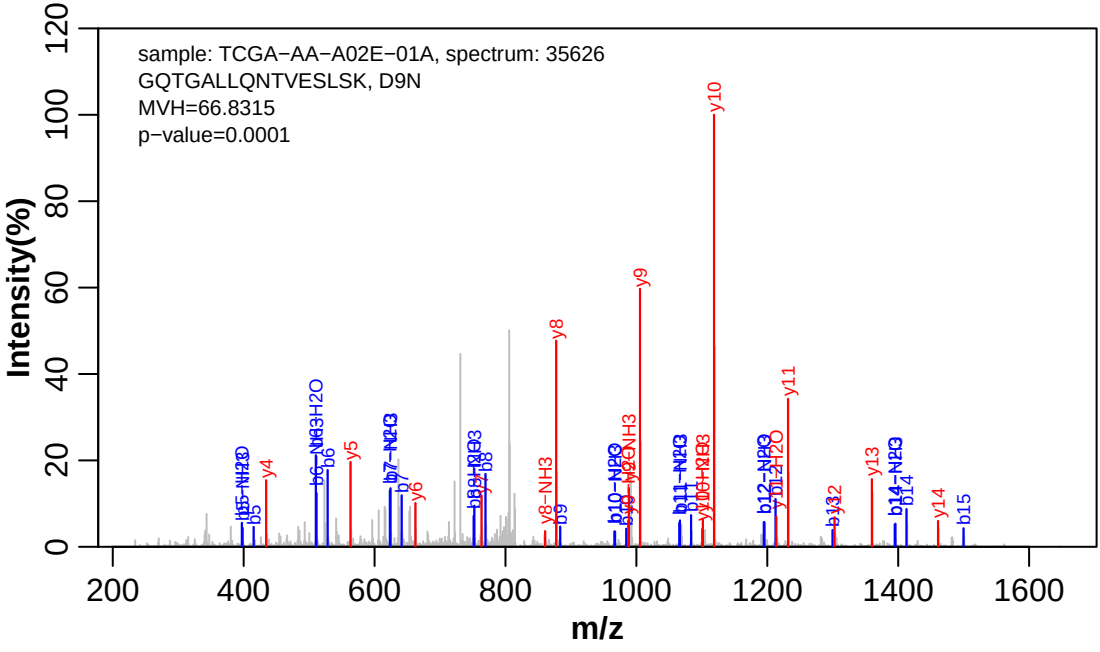

sample: TCGA−AA−A02E−01A, spectrum: 13040
FNKPFVFLMLDQNTK, E11D
MVH=53.2591
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
y7++
y6
y5
b3
b6
b8
b9
b11++
b13++
y6−NH3

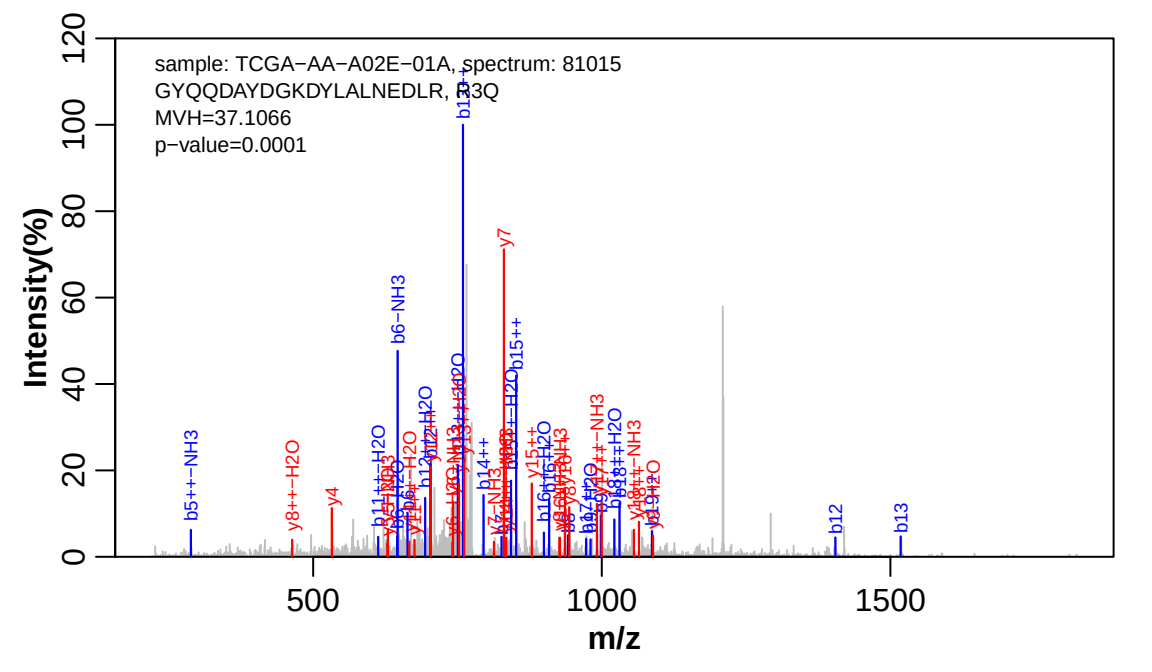

sample: TCGA−AA−A02E−01A, spectrum: 62357
FQTATVTEK, I3T
MVH=30.7601
p−value=0.0021
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b6
b7

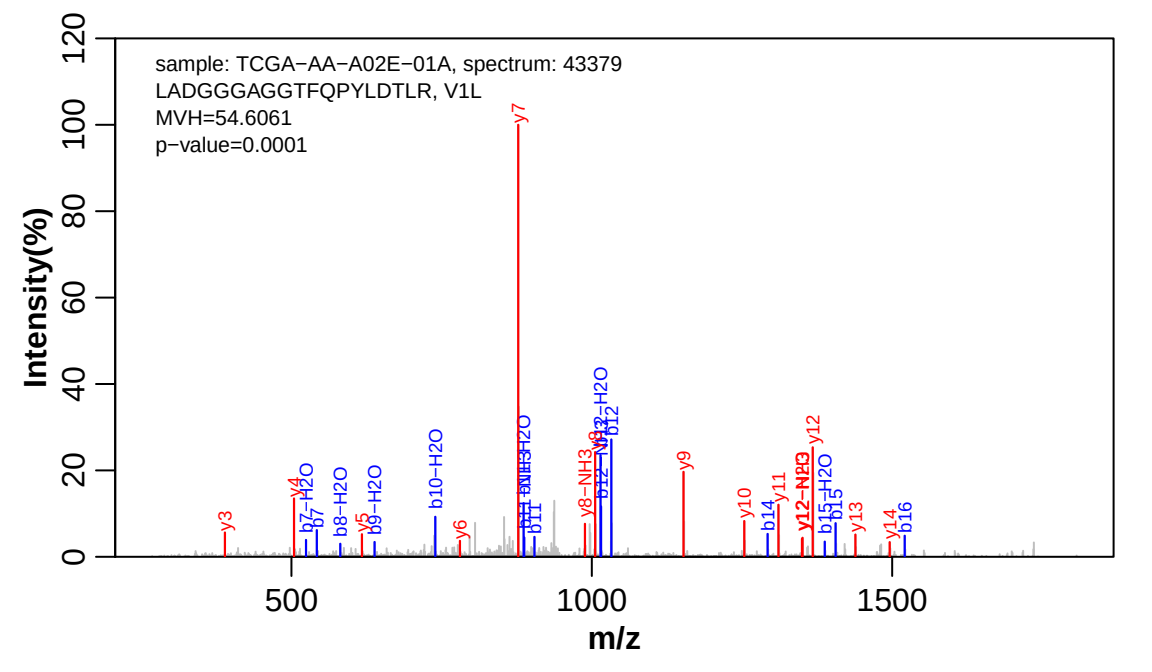

sample: TCGA−AA−A02E−01A, spectrum: 84478
FTVGDHSR, I3V
MVH=40.6427
p−value=0.0006
Intensity(%)
m/z
y6++
y2−H2O
y5++
y7++
y5++−H2O
y6++−H2O
y7++−H2O
b4−H2O
b3++
y3++
b4++
b5++−NH3
y4++
b3
b4
y4
y5

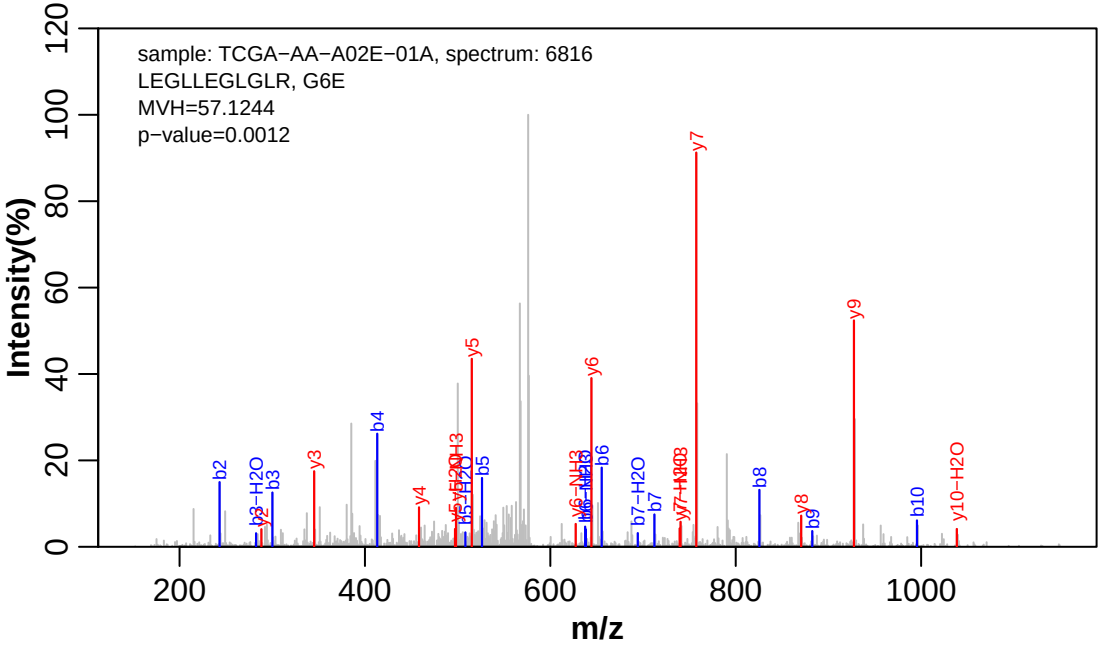

sample: TCGA−AA−A02E−01A, spectrum: 51522
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=53.6017
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y9++−NH3
y5
y12++
y13++−H2O
b14++−H2O
b18++−H2O
b18++−NH3
y15++−H2O
b20++−H2O
b21++
b10
b24++
y24++−H2O
b13
b25++
b26++
b27++−H2O
b27++
y14−H2O
b17
b18
y17−NH3

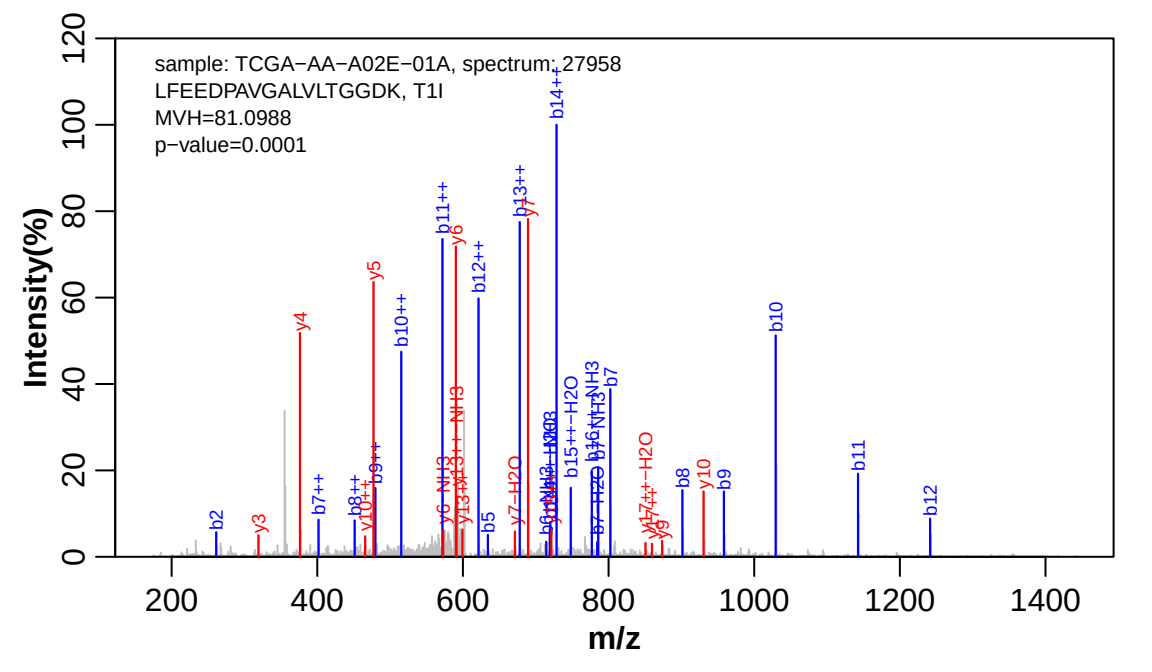

sample: TCGA−AA−A02E−01A, spectrum: 6008
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
y2−H2O
b4−NH3
b4
y3
b5
b5−NH3
b5−H2O
y4
b6
b6−H2O
y5−NH3
y5
y6
y6−H2O
y7
b8

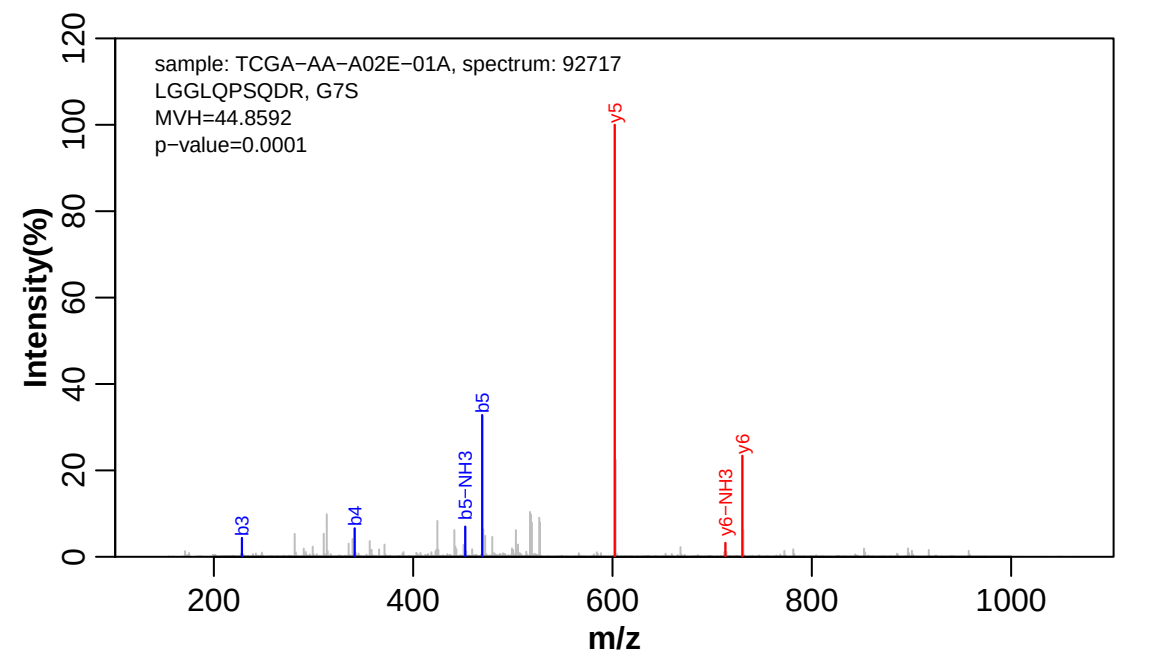

sample: TCGA−AA−A02E−01A, spectrum: 35626
GQTGALLQNTVESLSK, D9N
MVH=66.8315
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y8−NH3
y11
y13
y14
b15
y4
y5
y6
b9

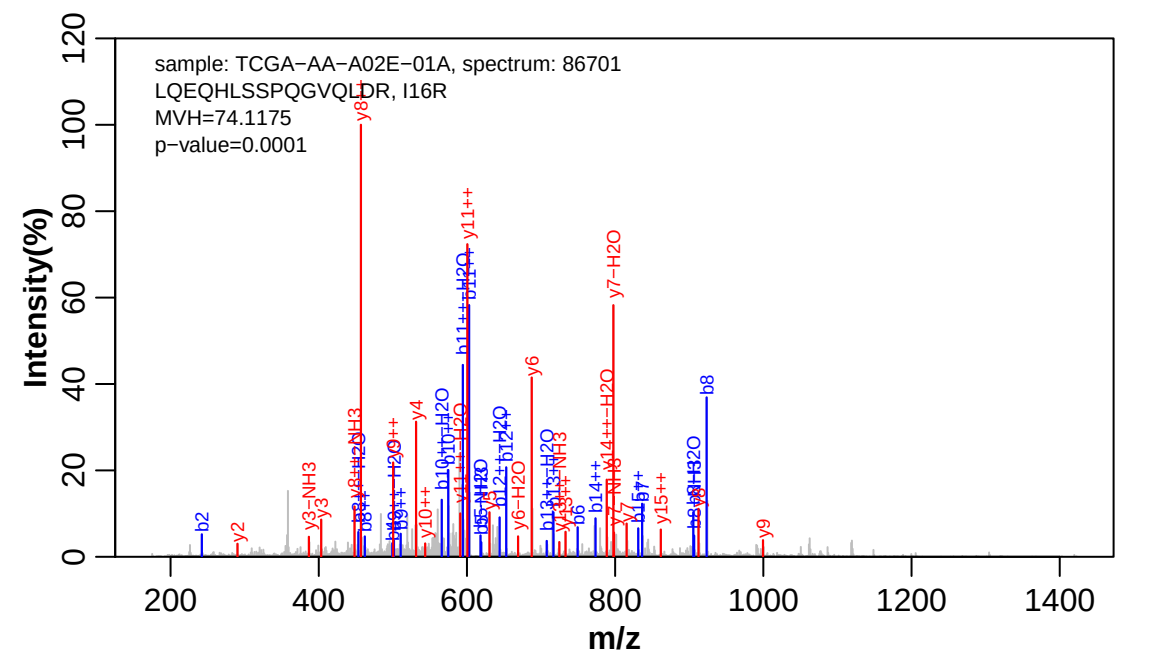

sample: TCGA−AA−A02E−01A, spectrum: 81015
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=37.1066
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
y8++−H2O
y4
b6−NH3
b12++
y7
b15++
b14++
b12
b13

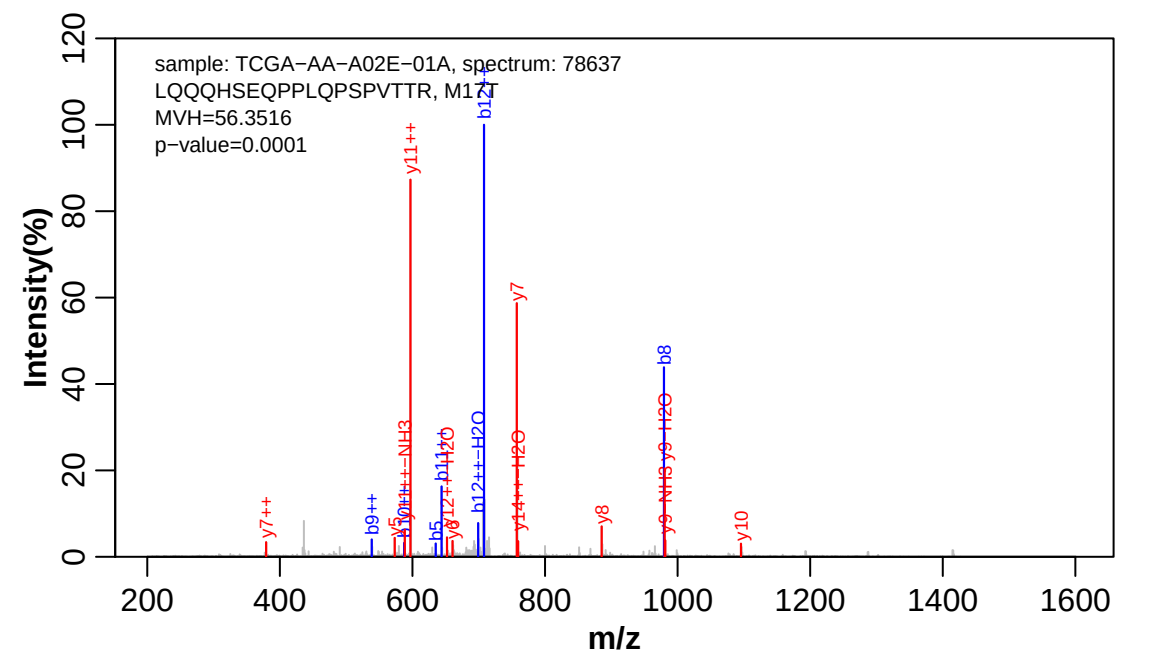

sample: TCGA−AA−A02E−01A, spectrum: 43379
LADGGGAGGTFQPYLDTLR, V1L
MVH=54.6061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b7−H2O
b7
b8−H2O
y5
b9−H2O
b10−H2O
y6
y7
b11−H2O
b11−NH3
b11
y8−NH3
y8
b12−NH3
b12−H2O
b12
y9
y10
b14
y11
y12−NH3
y12
b15−H2O
b15
y13
y14
b16

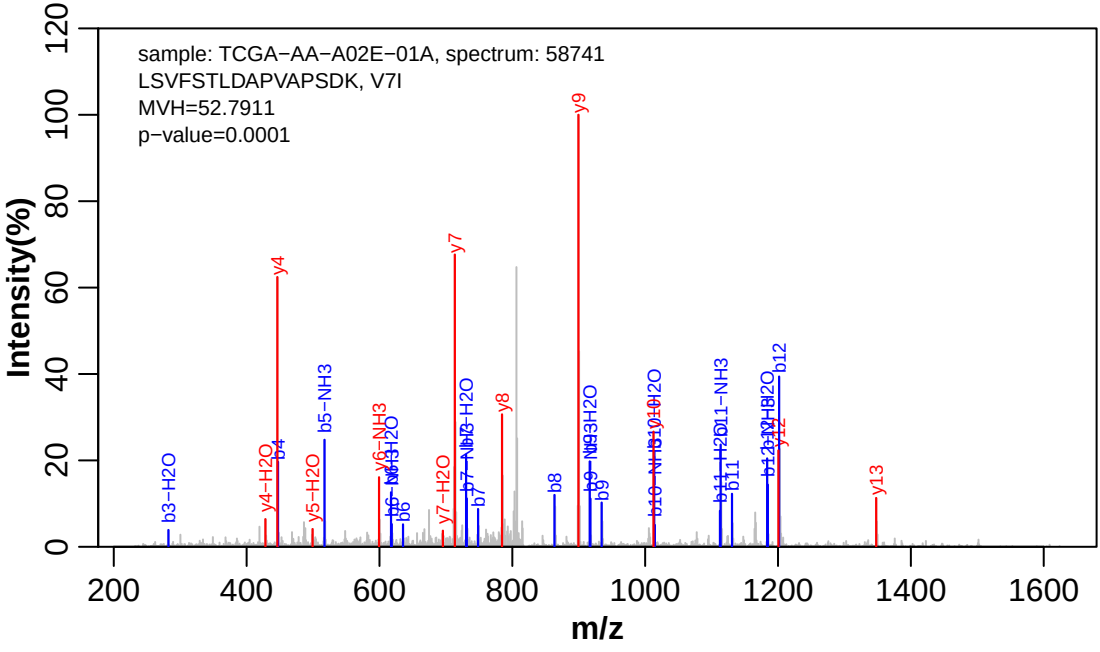

sample: TCGA−AA−A02E−01A, spectrum: 6816
LEGLLEGLGLR, G6E
MVH=57.1244
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b2−H2O
b3
y3
b4
y4
y5
b5
b5−H2O
y6
b6
b6−NH3
b7−H2O
b7
y7
y7−H2O
y7−NH3
b8
y8
b9
y9
b10
y10−H2O

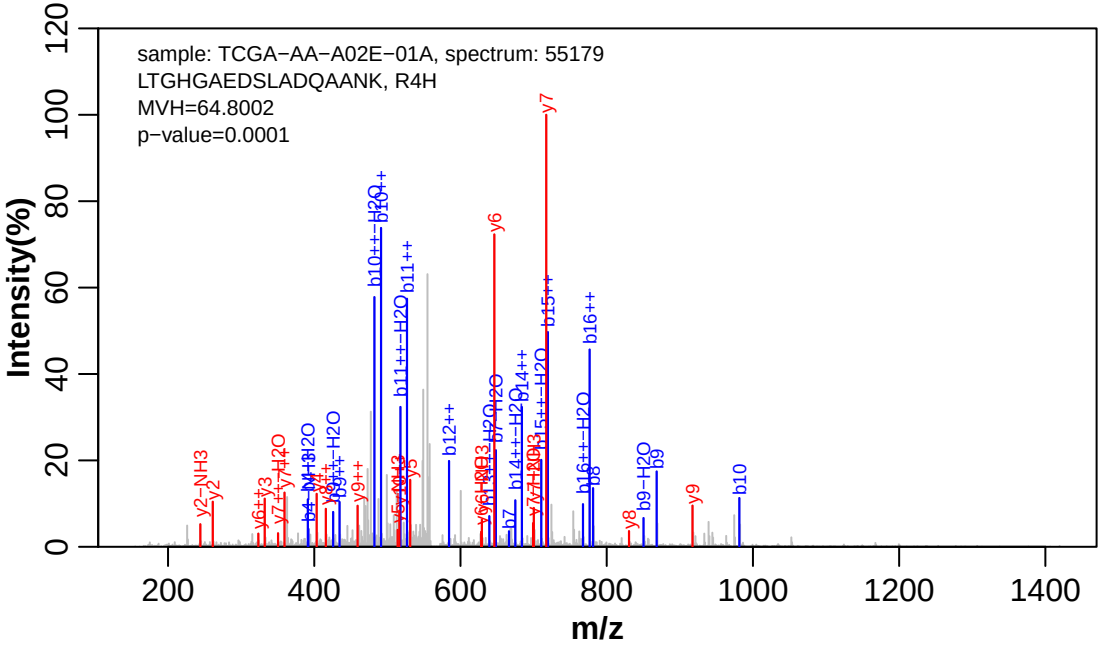

sample: TCGA−AA−A02E−01A, spectrum: 27958
LFEEDPAVGALVLTGGDK, T1I
MVH=81.0988
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b7++
b8++
y10++
b9++
y5
b10++
b11++
y6
b12++
y13++
y13++−NH3
y6−NH3
y7−H2O
b5
b13++
y7
b14++
b15++−H2O
b15++−NH3
b7
y17++−H2O
y9
b8
y10
b9
b10
b11
b12

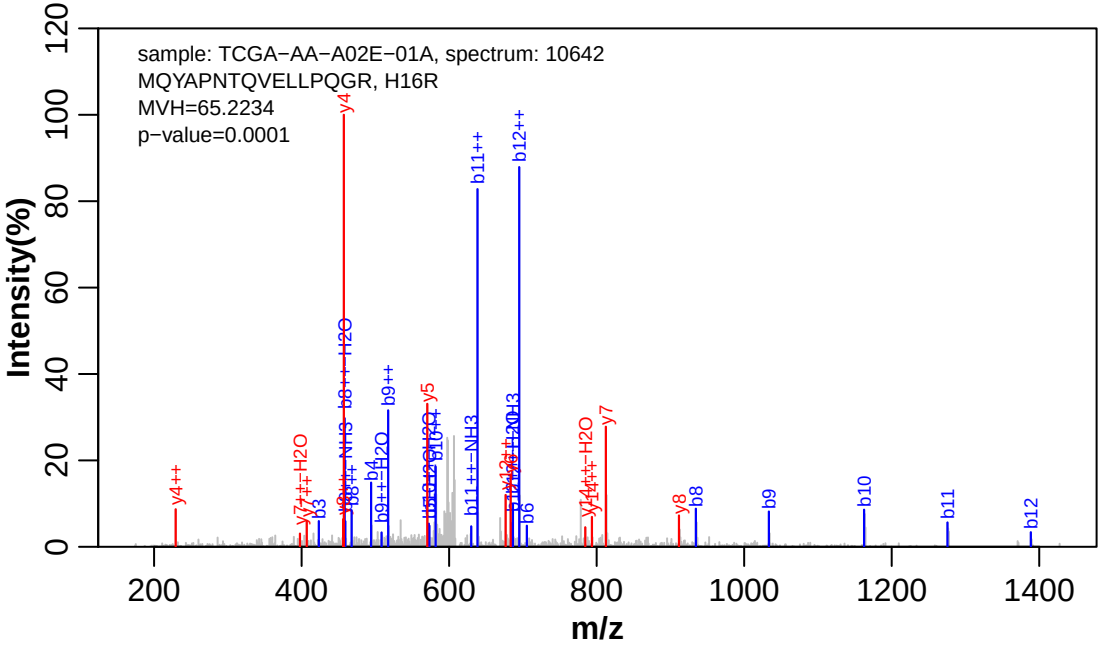

sample: TCGA−AA−A02E−01A, spectrum: 92717
LGGLQPSQDR, G7S
MVH=44.8592
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
b4
b5−NH3
b5
y5
y6−NH3
y6

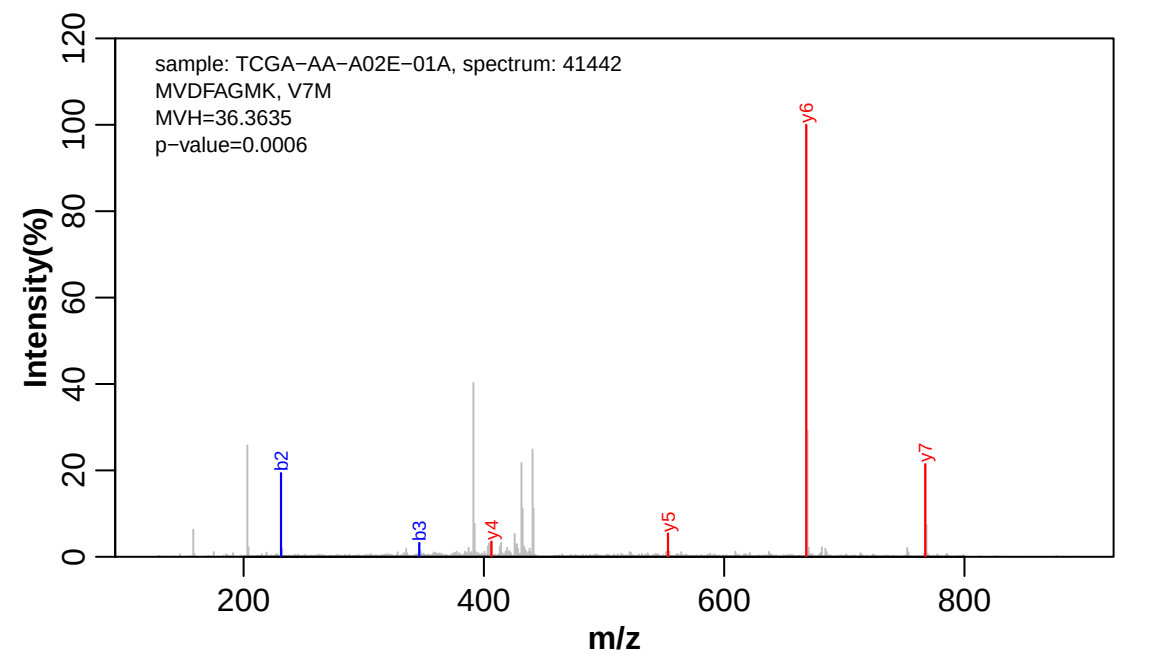

sample: TCGA−AA−A02E−01A, spectrum: 86701
LQEQHLSSPQGVQLDR, I16R
MVH=74.1175
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y3−NH3
y3
y8++
y8
b8++−H2O−NH3
b8++−NH3
b8++−H2O
b8++
b9++−H2O
b9++
y4
y10++
b10++−H2O
b10++
y11++−H2O
y11++
b11++−H2O
b11++
y12++
y5−NH3
y5
b12++−H2O
b12++
y6−H2O
y6
b13++−H2O
b13++−NH3
b13++
y13++−NH3
y13++
b6
b14++
y7−NH3
y14++−H2O
y7
b15++
y15++
y7−H2O
b8−H2O
b8
y9

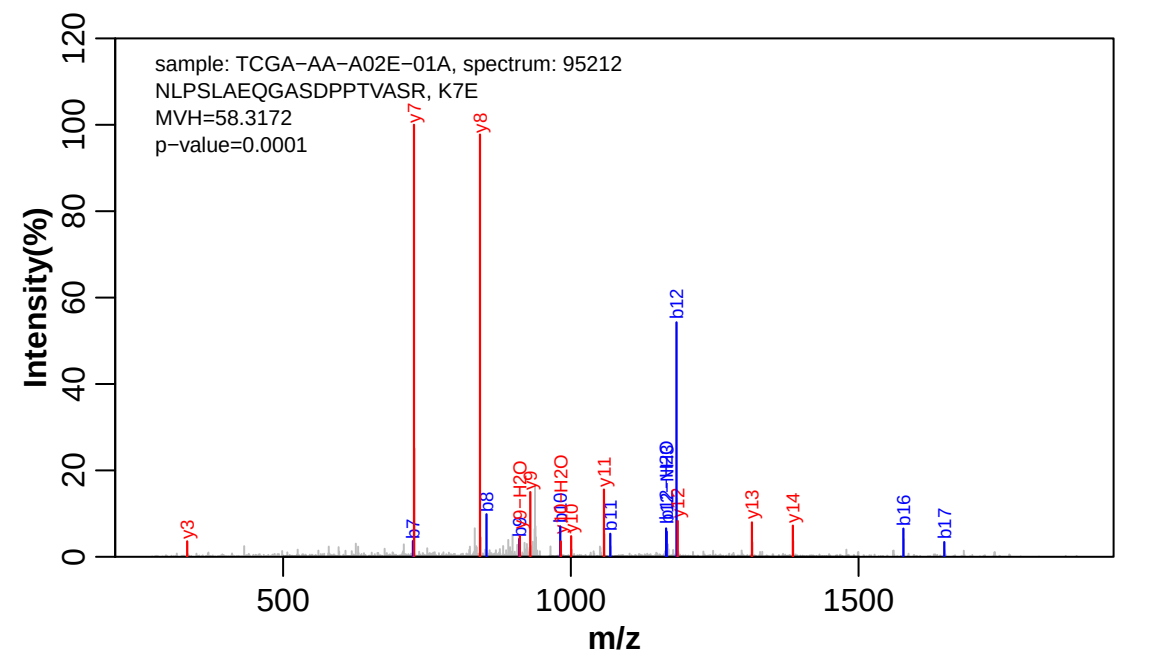

sample: TCGA−AA−A02E−01A, spectrum: 78637
LQQQHSEQPPLQPSPVTTR, M12T
MVH=56.3516
p−value=0.0001
Intensity(%)
m/z
y7++
b9++
y11++
b12++
y11++−NH3
b5
y12++−H2O
b12++−H2O
y7
y14++−H2O
y8
b8
y9−NH3
y9−H2O
y10

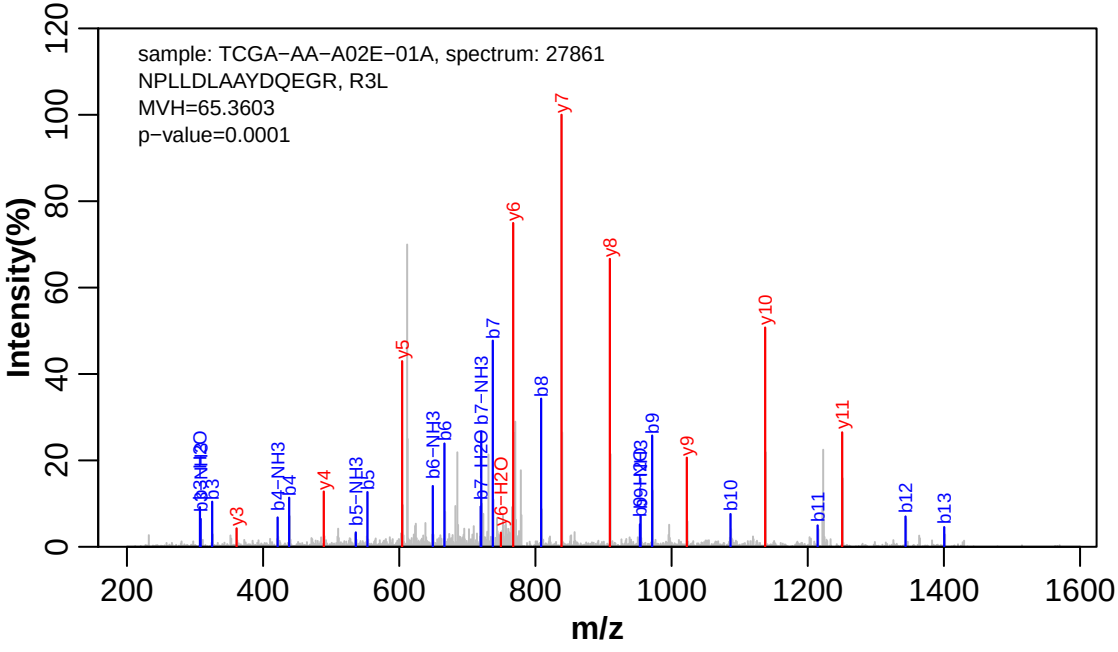

sample: TCGA−AA−A02E−01A, spectrum: 58741
LSVFSTLDAPVAPSDK, V7I
MVH=52.7911
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y4
y7
y8
y13
b12
b5−NH3
b3−H2O
y4−H2O
y5−H2O
y6−NH3
y7−H2O
b8
b10−H2O
b11−NH3
b11
b11−H2O
b12−H2O

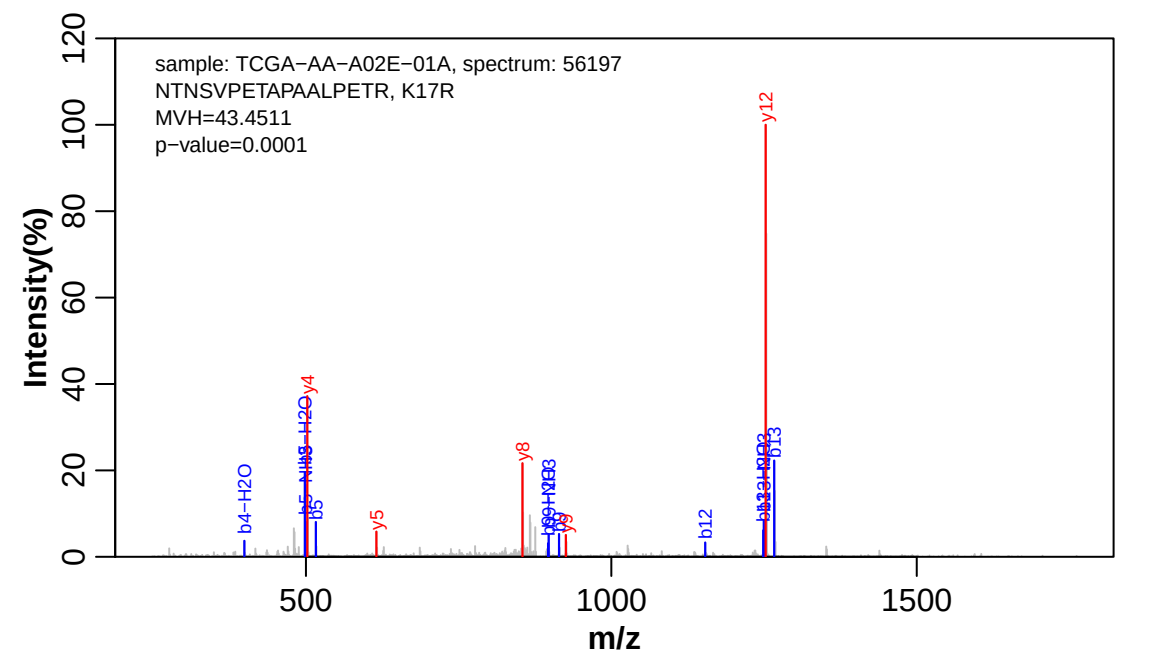

sample: TCGA−AA−A02E−01A, spectrum: 55179
LTGHGAEDSLADQAANK, R4H
MVH=64.8002
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
b10++−H2O
b10++
b11++
b11++−H2O
b12++
b15++
b15++−H2O
b16++
b16++−H2O
y2−NH3
y2
y9++
y9
b10
b9−H2O
b9
y8
b8
b7
b14++
b14++−H2O

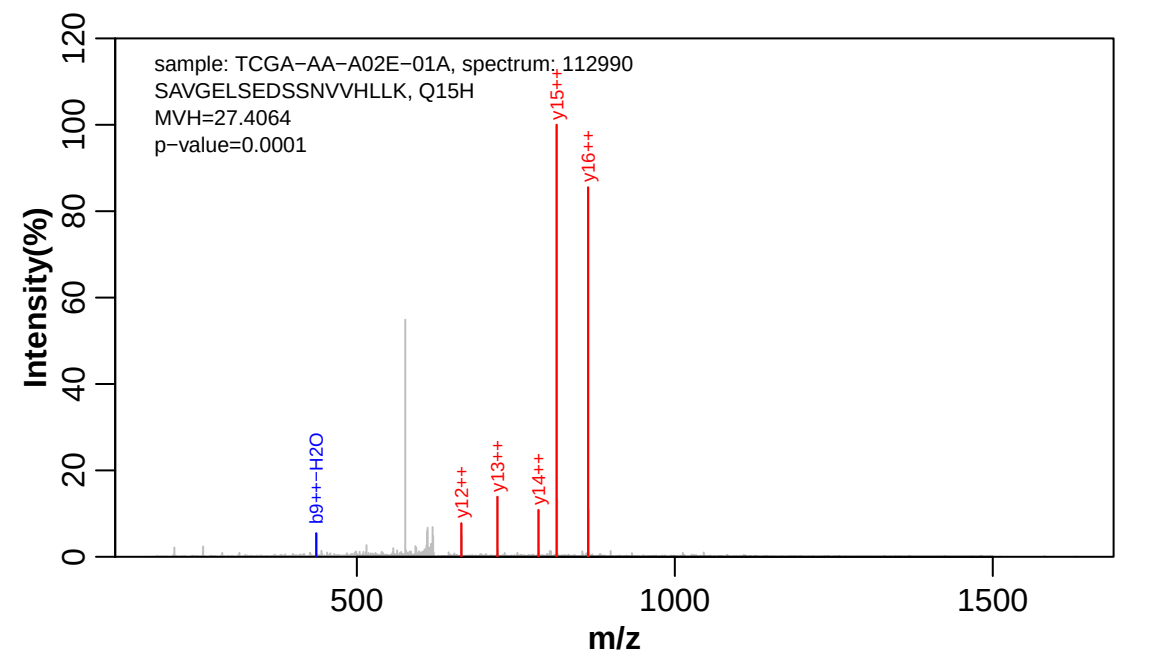

sample: TCGA−AA−A02E−01A, spectrum: 10642
MQYAPNTQVELLPQGR, H16R
MVH=65.2234
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4++
y4
y7++−H2O
y3
b3
b8++−NH3
b8++−H2O
b4
b9++−H2O
b9++
y5
b11++−NH3
b11++
b12++
y7
y8
b8
b9
b10
b11
b12

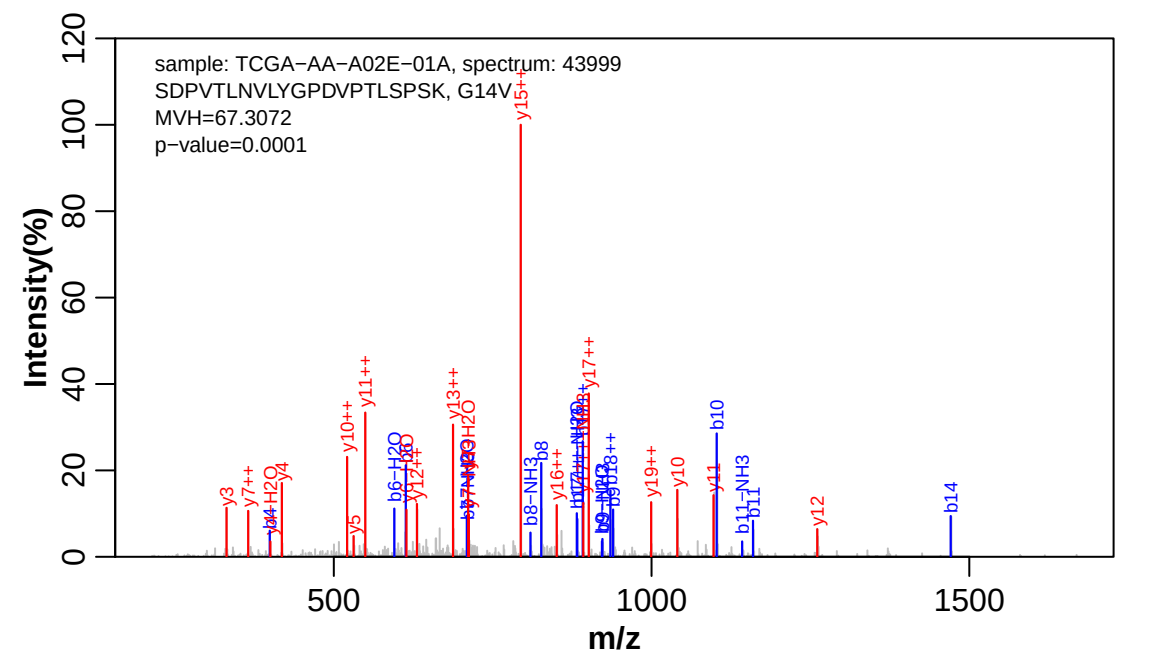

sample: TCGA−AA−A02E−01A, spectrum: 41442
MVDFAGMK, V7M
MVH=36.3635
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

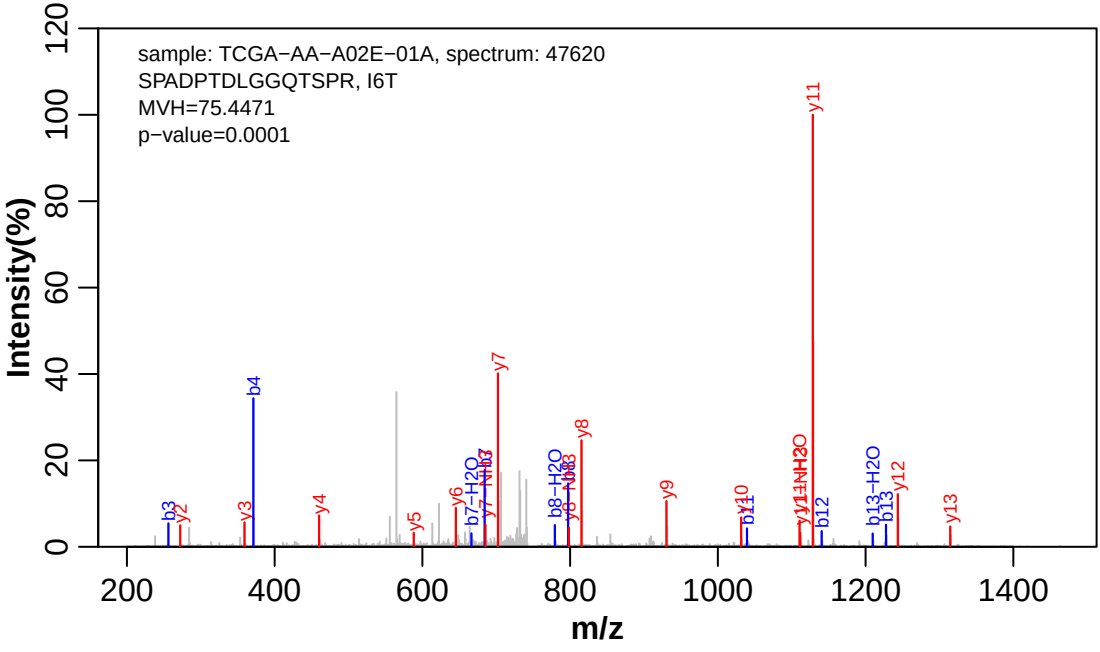

sample: TCGA−AA−A02E−01A, spectrum: 95212
NLPSLAEQGASDPPTVASR, K7E
MVH=58.3172
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b7
y7
b8
y8
b9−H2O
y9
y10−H2O
y10
y11
b11
b12
b12−NH3
b12−H2O
y12
y13
y14
b16
b17

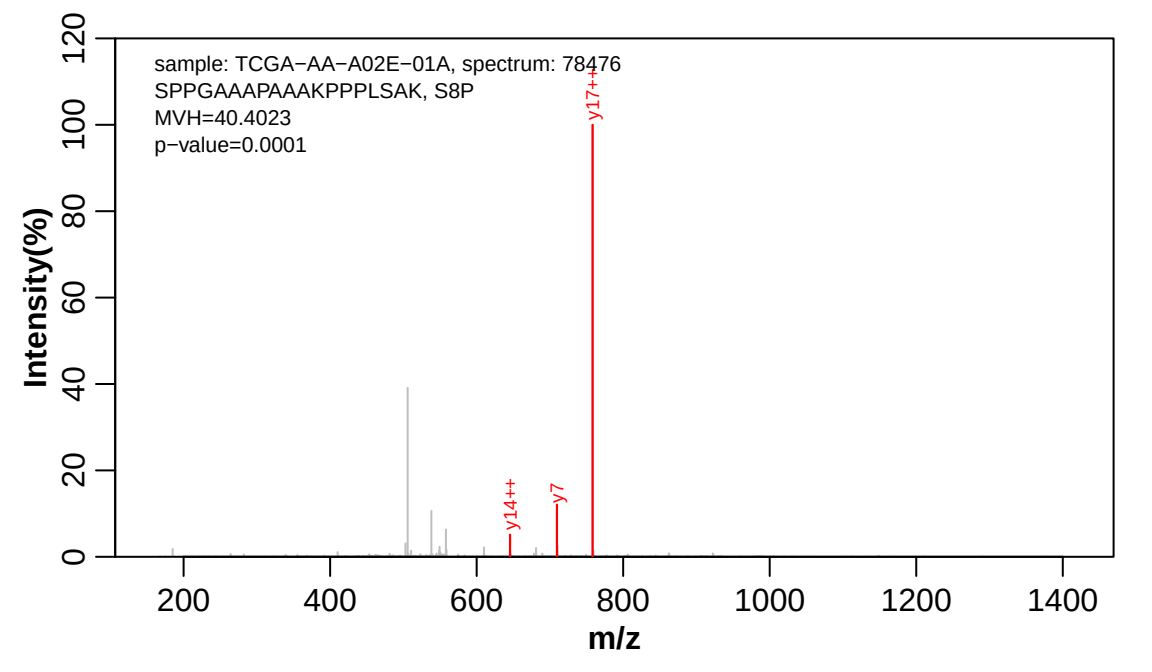

sample: TCGA−AA−A02E−01A, spectrum: 27861
NPLLDLAAYDQEGR, R3L
MVH=65.3603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y6
y10
y5
b7
b8
y11
b6−NH3
b6
b7−NH3
b9
y9
y4
b4−NH3
b4
b5−NH3
b5
y3
b3
b10
b11
b12
b13
y6−H2O

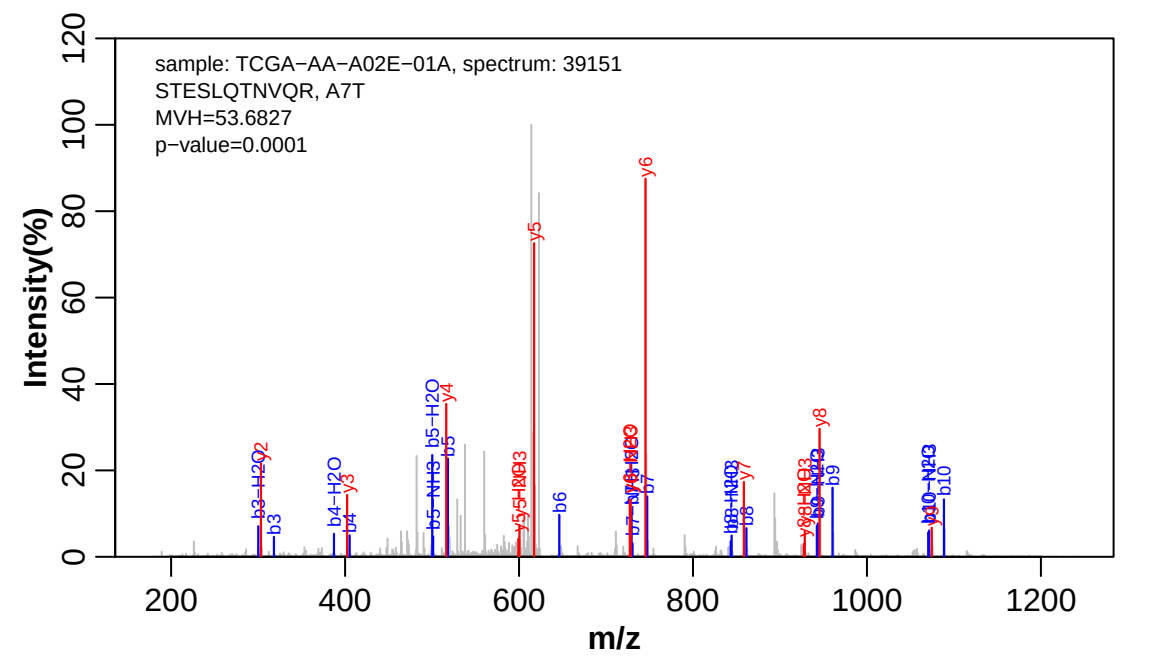

sample: TCGA−AA−A02E−01A, spectrum: 56197
NTNSVPETAPAALPETR, K17R
MVH=43.4511
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y8
y4
y5
b4−H2O
b5
b12
b13

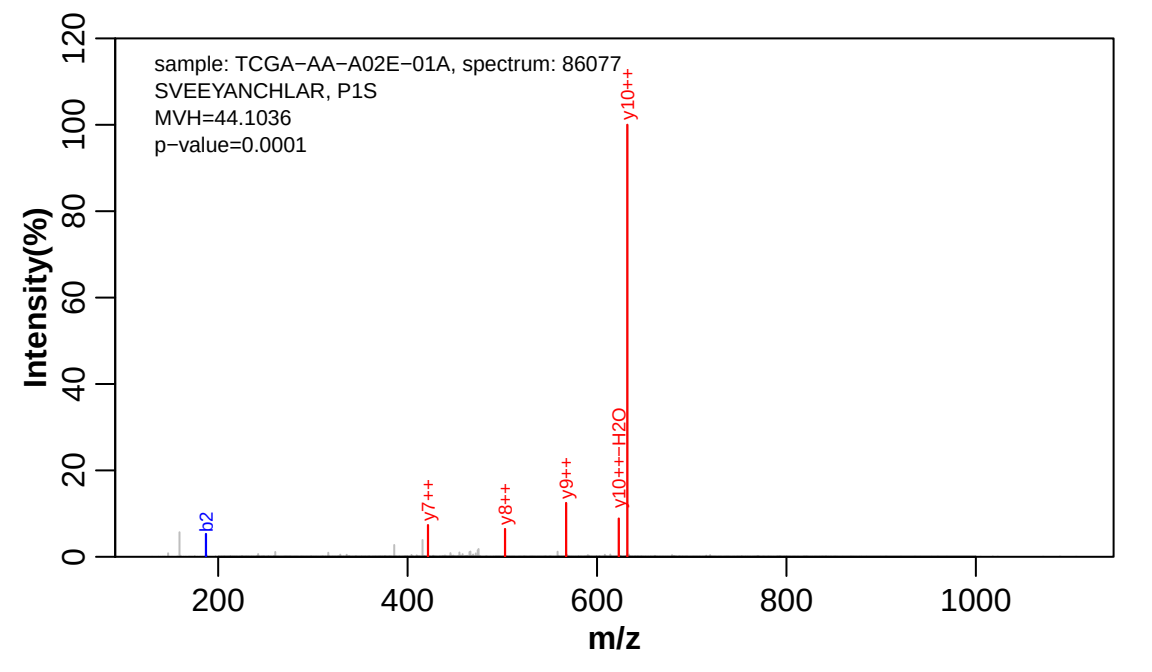

sample: TCGA−AA−A02E−01A, spectrum: 112990
SAVGELSEDSSNVVHLLK, Q15H
MVH=27.4064
p−value=0.0001
b9++−H2O
y12++
y13++
y14++
y15++
y16++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

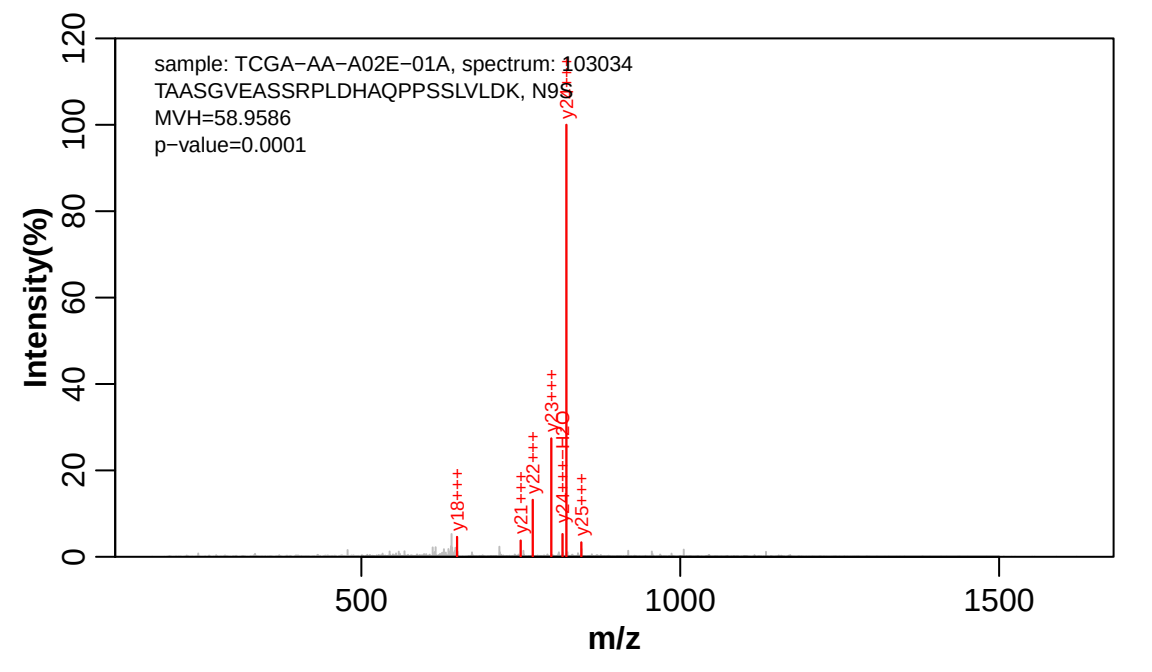

sample: TCGA−AA−A02E−01A, spectrum: 43999
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=67.3072
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y11++
y10++
y13++
y17++
b10
y3
y7++
y4
y5
b6−H2O
b8
b8−NH3
y16++
y19++
y10
y11
b11−NH3
b11
y12
b14

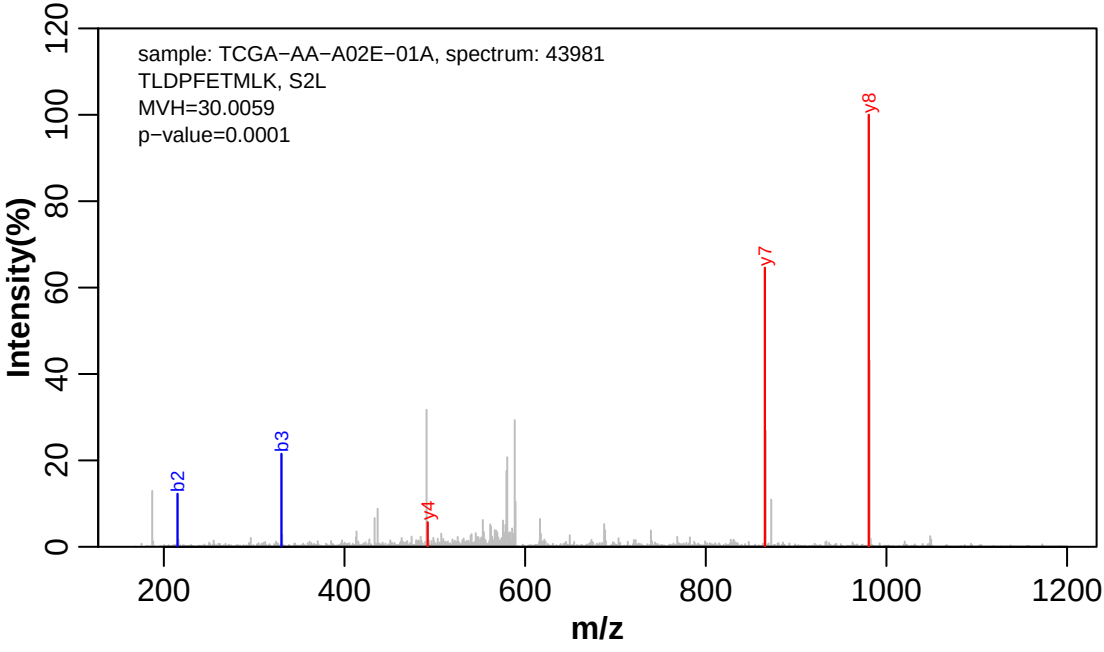

sample: TCGA−AA−A02E−01A, spectrum: 47620
SPADPTDLGGQTSPR, I6T
MVH=75.4471
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y5
y6
b7−H2O
y7−NH3
y7
b8−H2O
y8−NH3
y8
y9
y10
b11
y11−NH3
y11−H2O
y11
b12
b13−H2O
b13
y12
y13

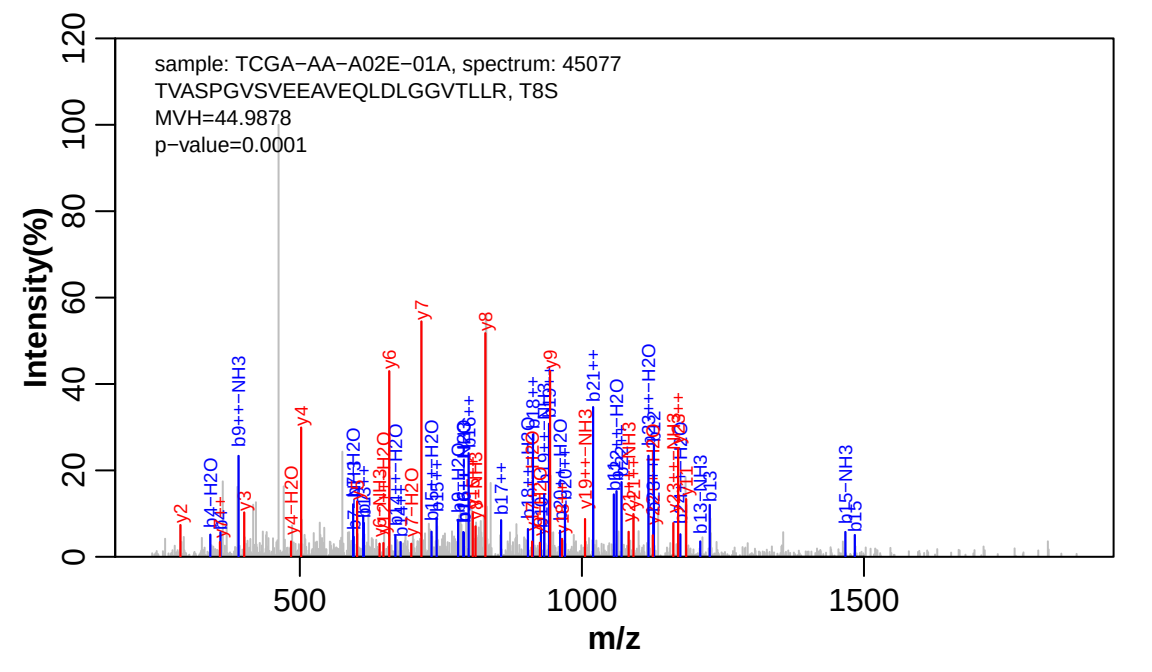

sample: TCGA−AA−A02E−01A, spectrum: 78476
SPPGAAAPAAAKPPPLSAK, S8P
MVH=40.4023
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

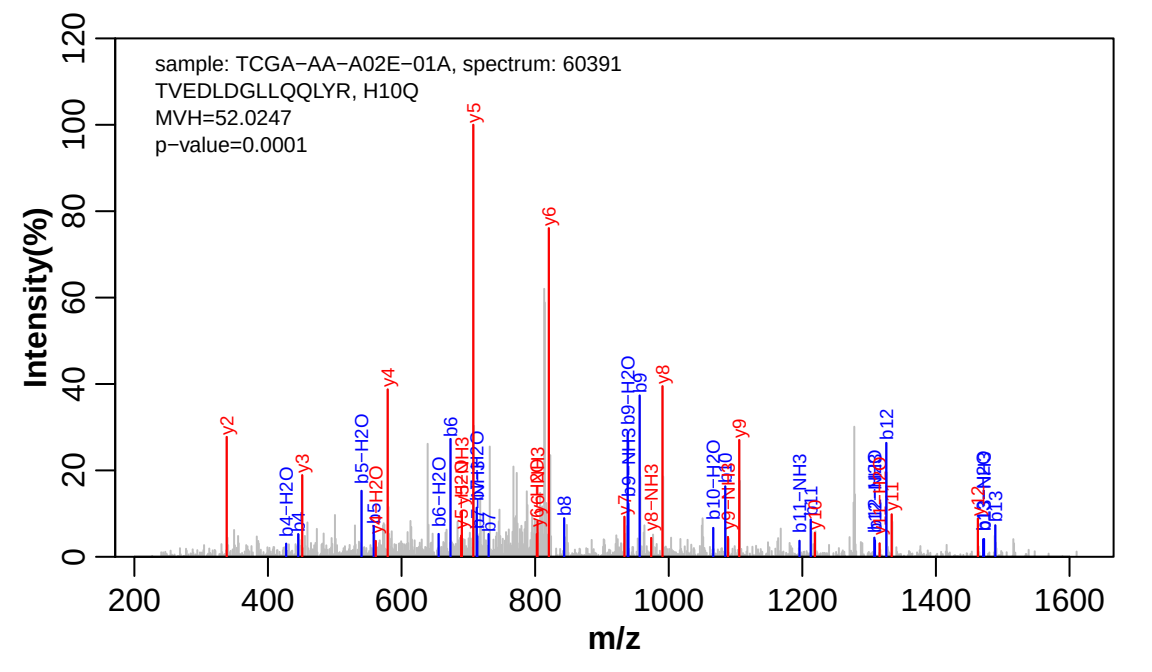

sample: TCGA−AA−A02E−01A, spectrum: 39151
STESLQTNVQR, A7T
MVH=53.6827
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y4
y8
b6
b7
b9
b10
b3
b4
b5
y3
b8
y7

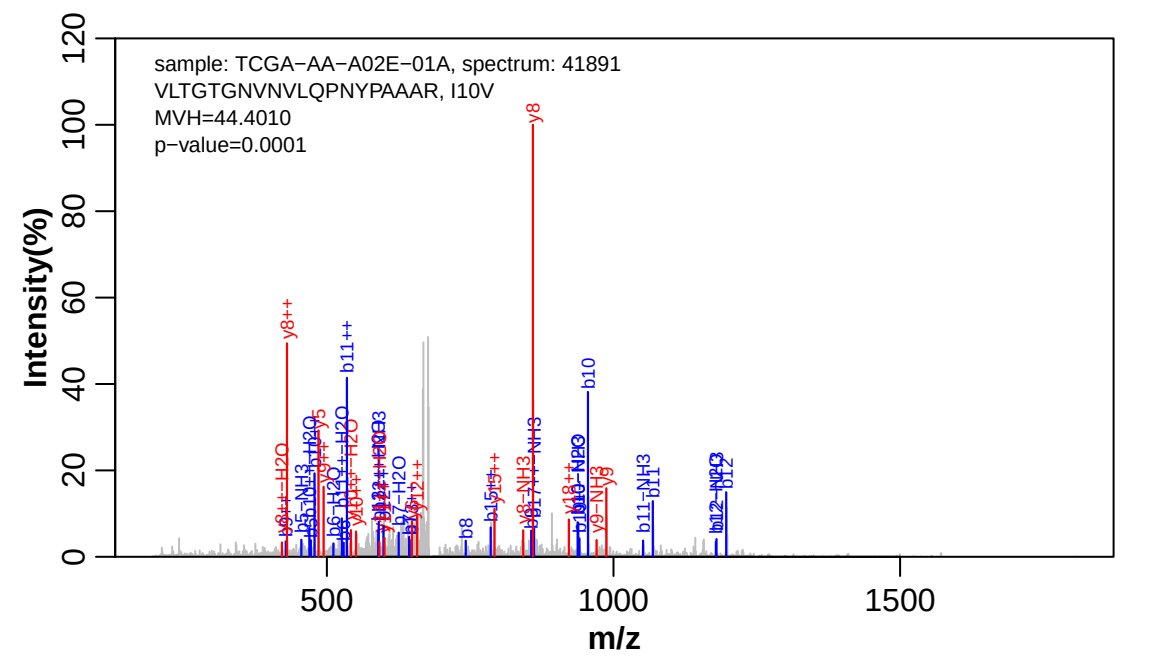

sample: TCGA−AA−A02E−01A, spectrum: 86077
SVEEYANCHLAR, P1S
MVH=44.1036
p−value=0.0001
y10++
y10++−H2O
y9++
y8++
y7++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

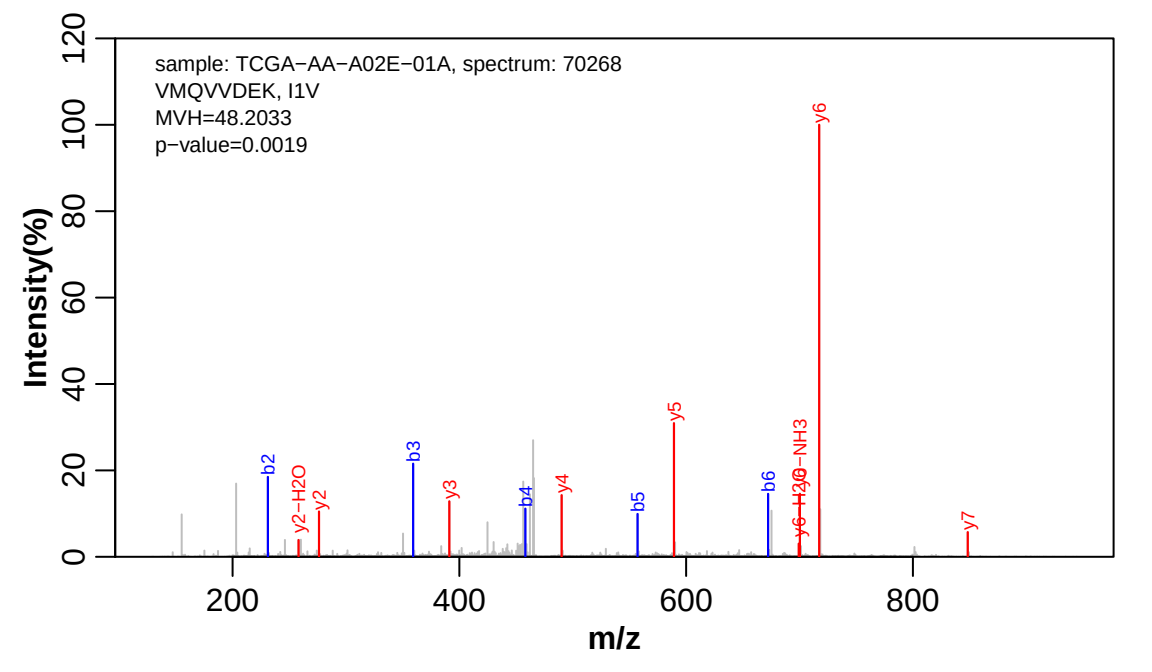

sample: TCGA−AA−A02E−01A, spectrum: 103034
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=58.9586
p−value=0.0001
y26++
y23+++
y24+++−H2O
y22+++
y21++
y18+++
y25+++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

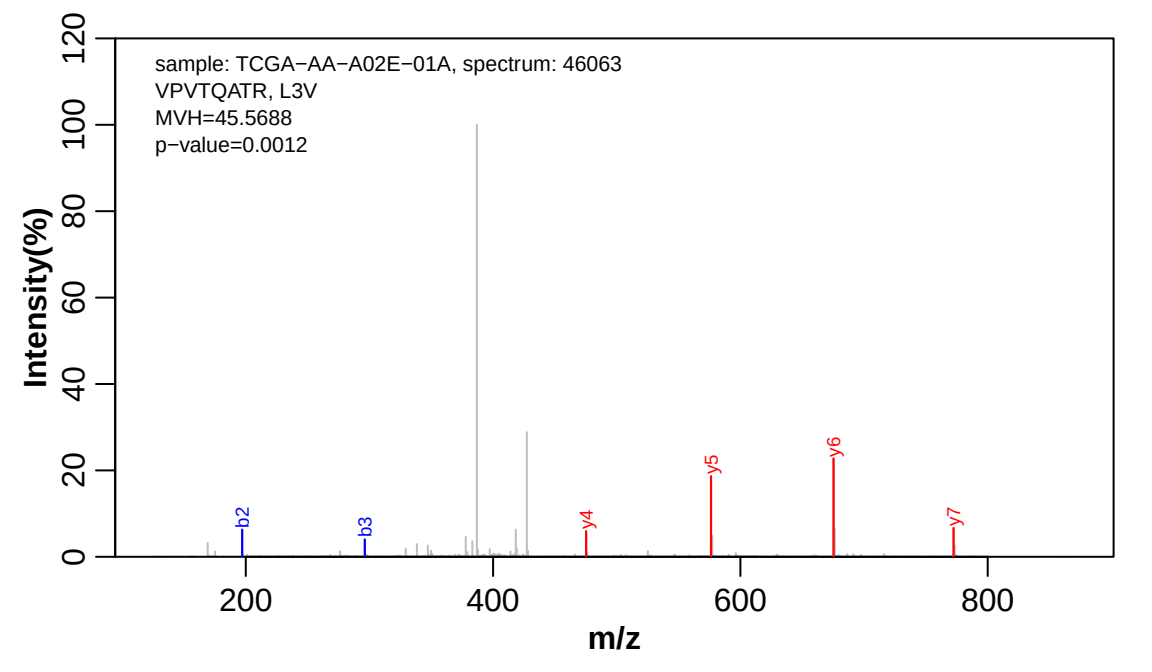

sample: TCGA−AA−A02E−01A, spectrum: 43981
TLDPFETMLK, S2L
MVH=30.0059
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y7
y8

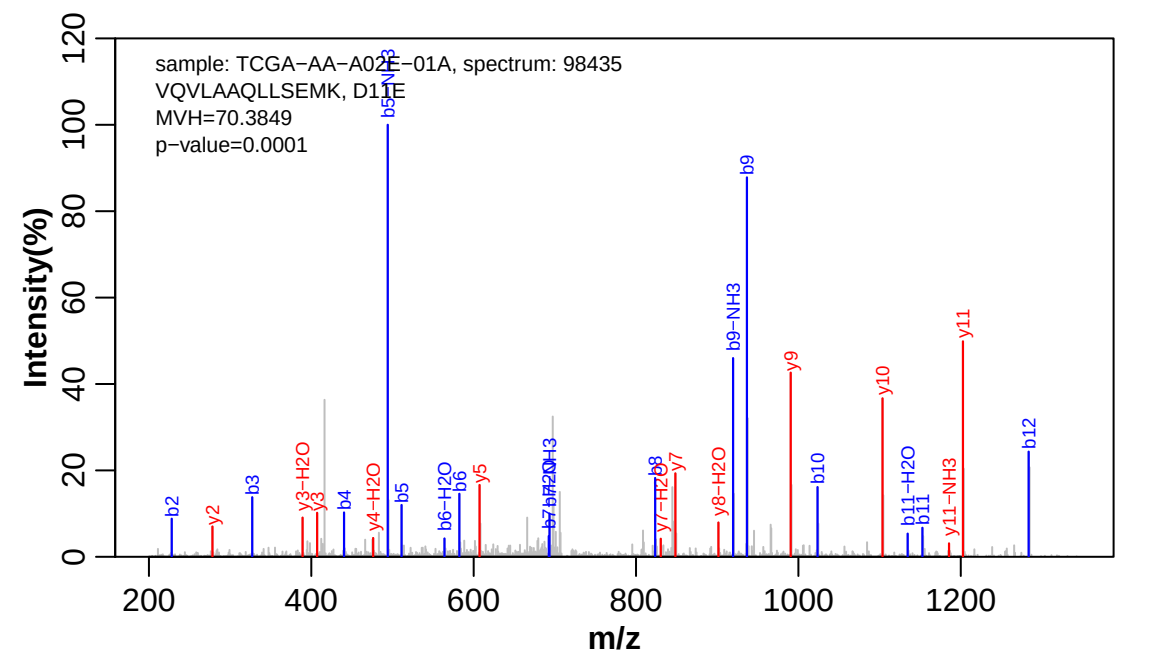

sample: TCGA−AA−A02E−01A, spectrum: 45077
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=44.9878
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b4−H2O
y4++
y3
b9++−NH3
y4−H2O
y4
y6
y7
y8
b17++
y19++−NH3
b21++
y9
b15−NH3

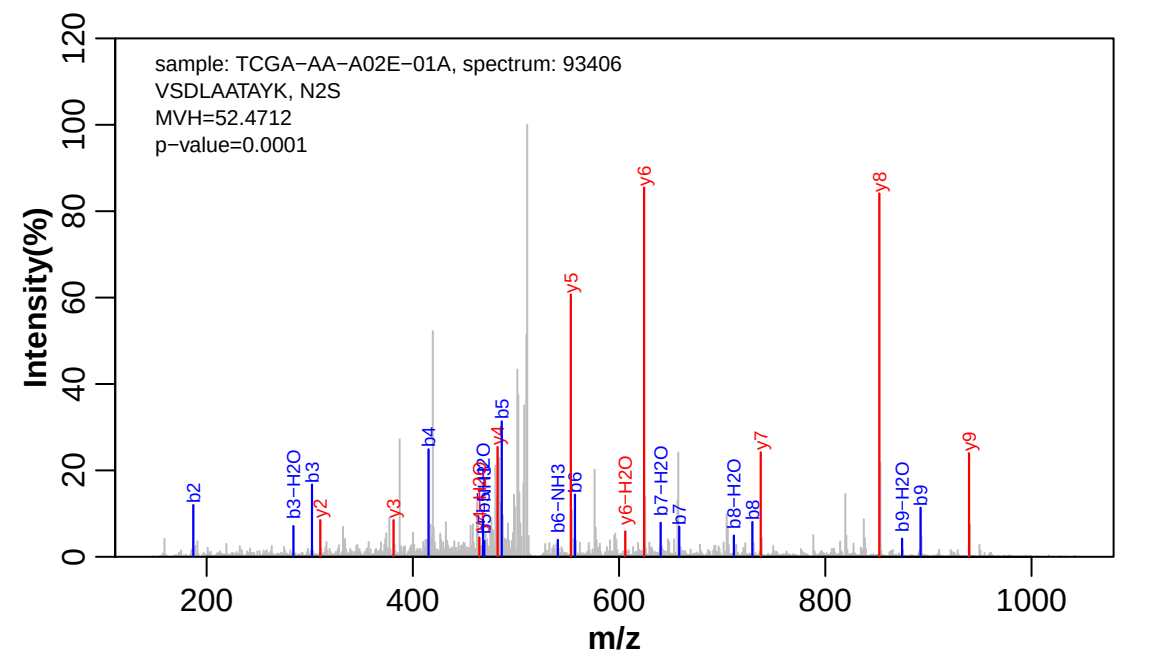

sample: TCGA−AA−A02E−01A, spectrum: 60391
TVEDLDGLLQQLYR, H10Q
MVH=52.0247
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y2
y4
y3
y8
y9
b9
b12
b8
b6
b5−H2O
b6−H2O
b4−H2O
b4
b9−H2O
b10−H2O
b11−NH3
b13
y5−H2O
y5−NH3
y6−H2O
y6−NH3
y7−NH3
y8−NH3
y9−NH3
y10
y11
b12−NH3
b13−NH3

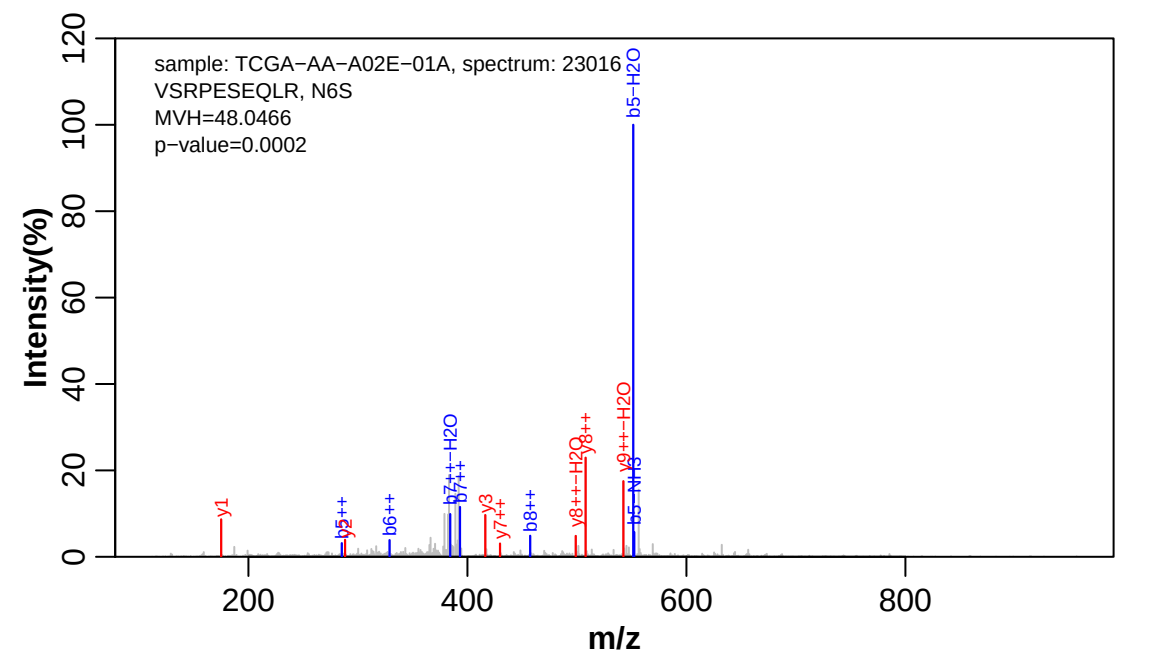

sample: TCGA−AA−A02E−01A, spectrum: 41891
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=44.4010
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y8++
b11++
b10
b8
y9-NH3
b11-NH3
b12
b12-NH3

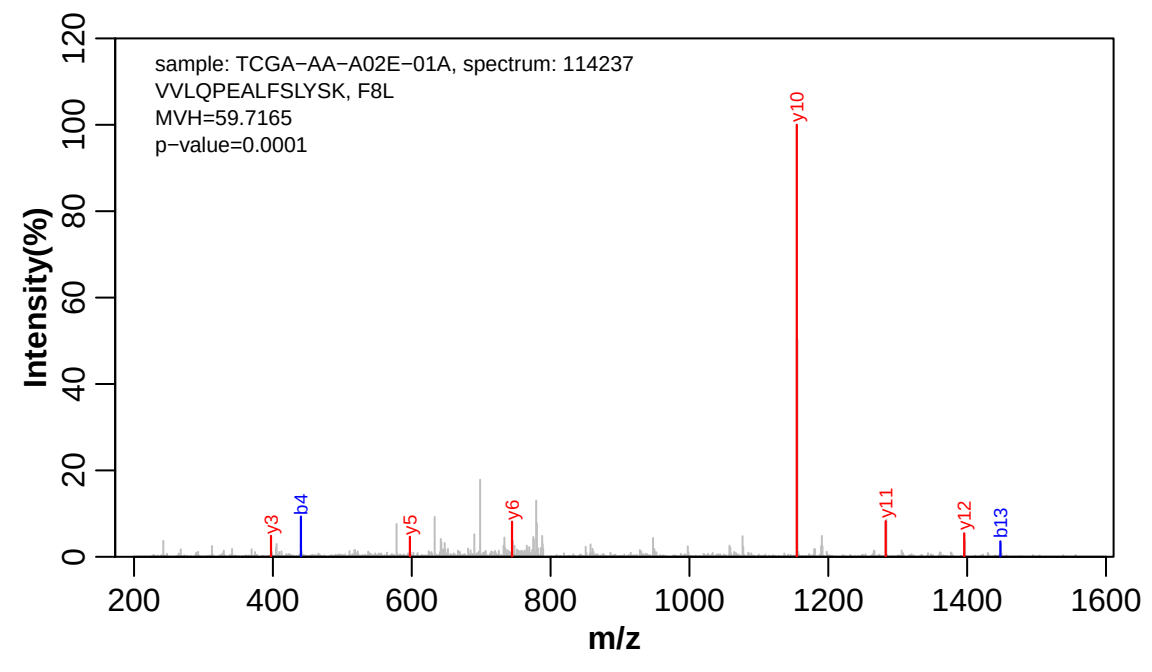

sample: TCGA−AA−A02E−01A, spectrum: 70268
VMQVVDEK, I1V
MVH=48.2033
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4
y4
b5
y5
b6
y6−NH3
y6
y7

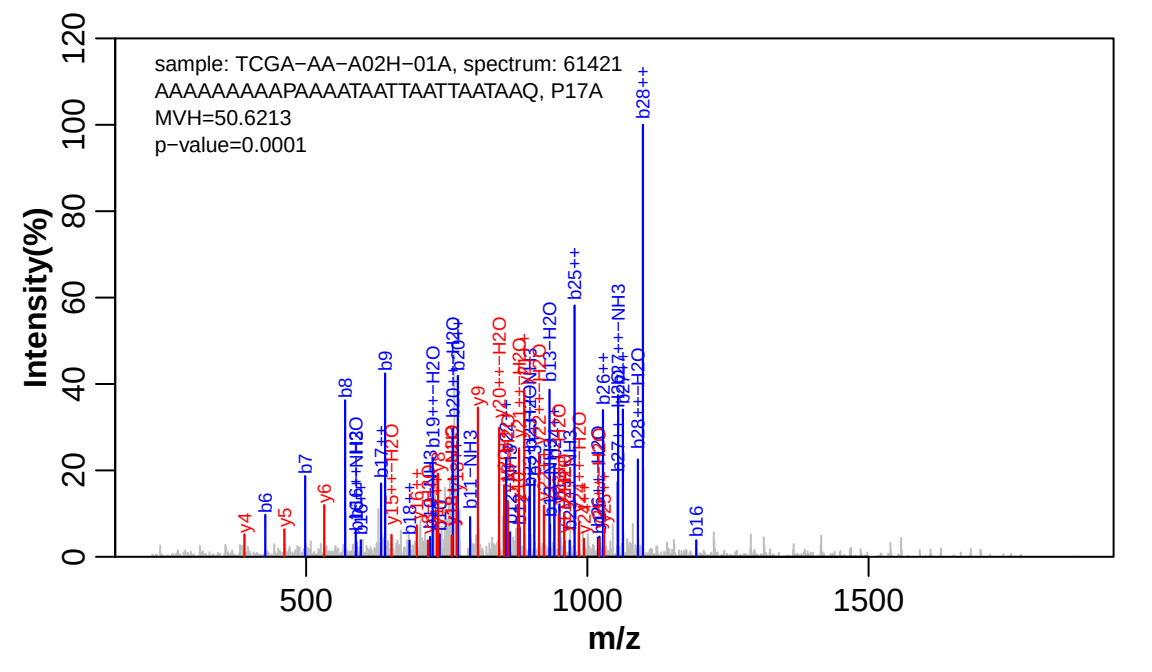

sample: TCGA−AA−A02E−01A, spectrum: 46063
VPVTQATR, L3V
MVH=45.5688
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

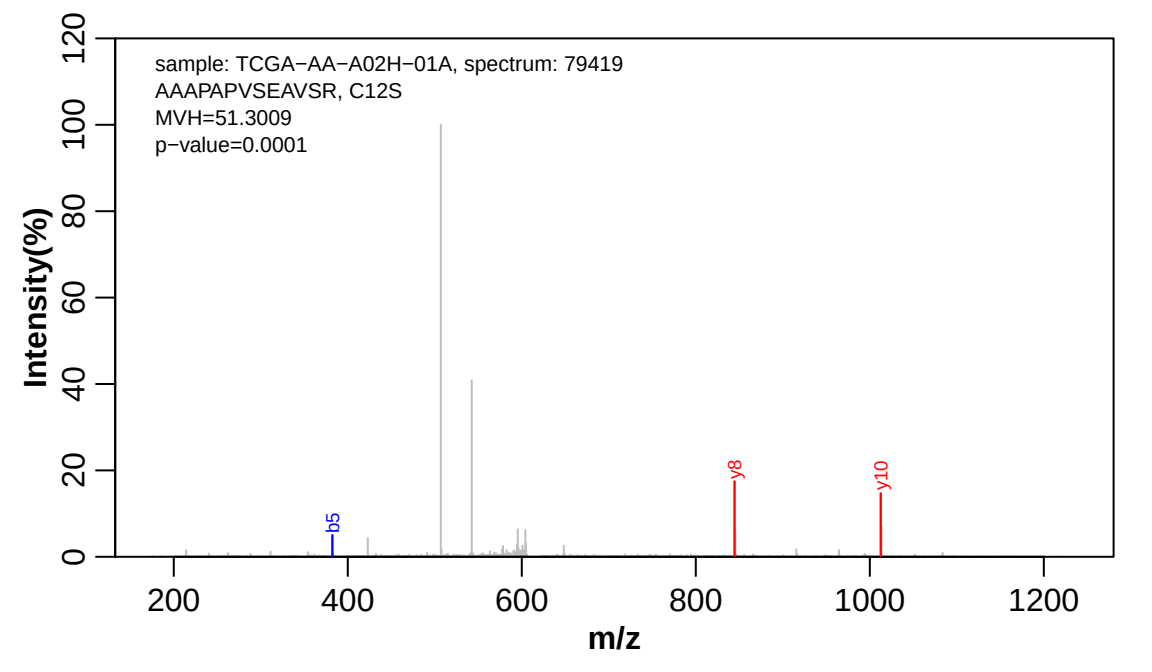

sample: TCGA−AA−A02E−01A, spectrum: 98435
VQVLAAQLLSEMK, D11E
MVH=70.3849
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5−NH3
b5
b6−H2O
b6
y5
b7−H2O
b7−NH3
b8
y7−H2O
y7
y8−H2O
b9
b9−NH3
y9
b10
y10
b11−H2O
b11
y11−NH3
y11
b12

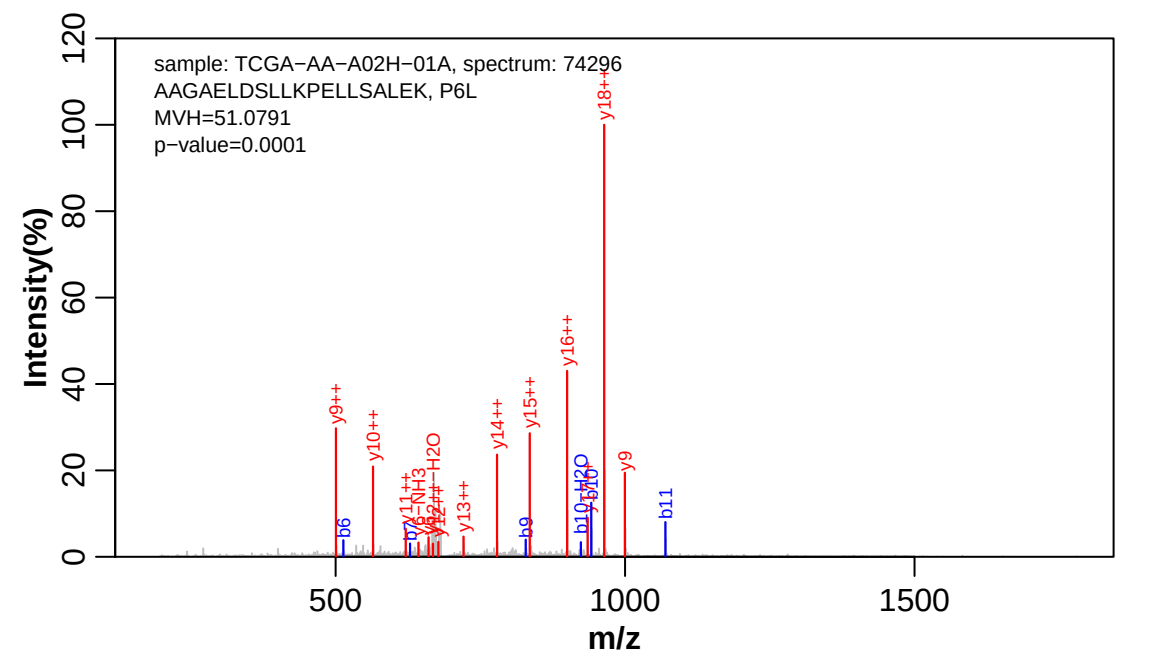

sample: TCGA−AA−A02E−01A, spectrum: 93406
VSDLAATAYK, N2S
MVH=52.4712
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5
y4
y5
b6−NH3
b6
y6−H2O
y6
b7−H2O
b7
b8−H2O
b8
y7
y8
b9−H2O
b9
y9

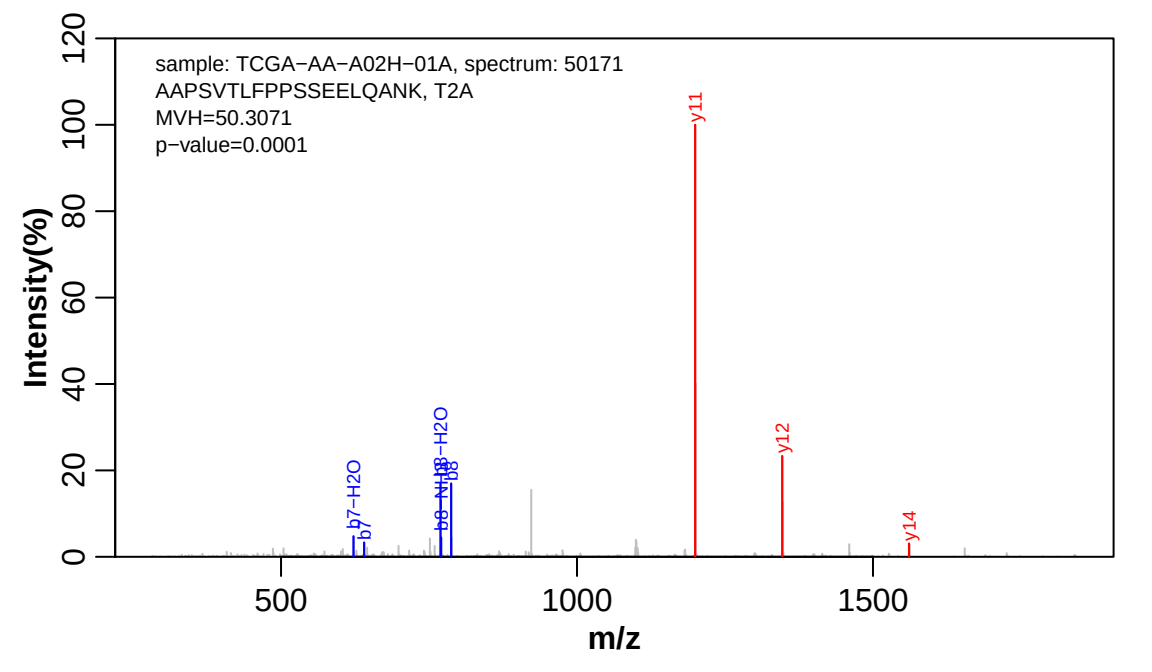

sample: TCGA−AA−A02E−01A, spectrum: 23016
VSRPESEQLR, N6S
MVH=48.0466
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b5++
y2
b6++
b7++−H2O
b7++
y3
y7++
b8++
y8+++−H2O
y8++
y9++−H2O
b5−NH3
b5−H2O

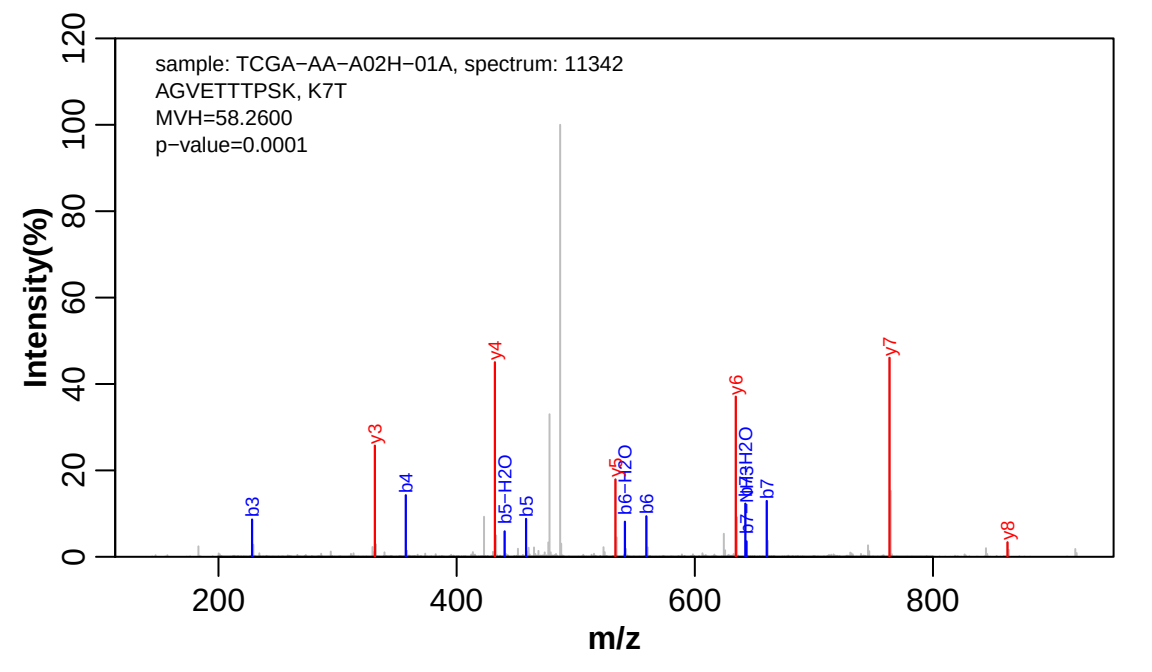

sample: TCGA−AA−A02E−01A, spectrum: 114237
VVLQPEALFSLYSK, F8L
MVH=59.7165
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
y5
y6
y10
y11
y12
b13

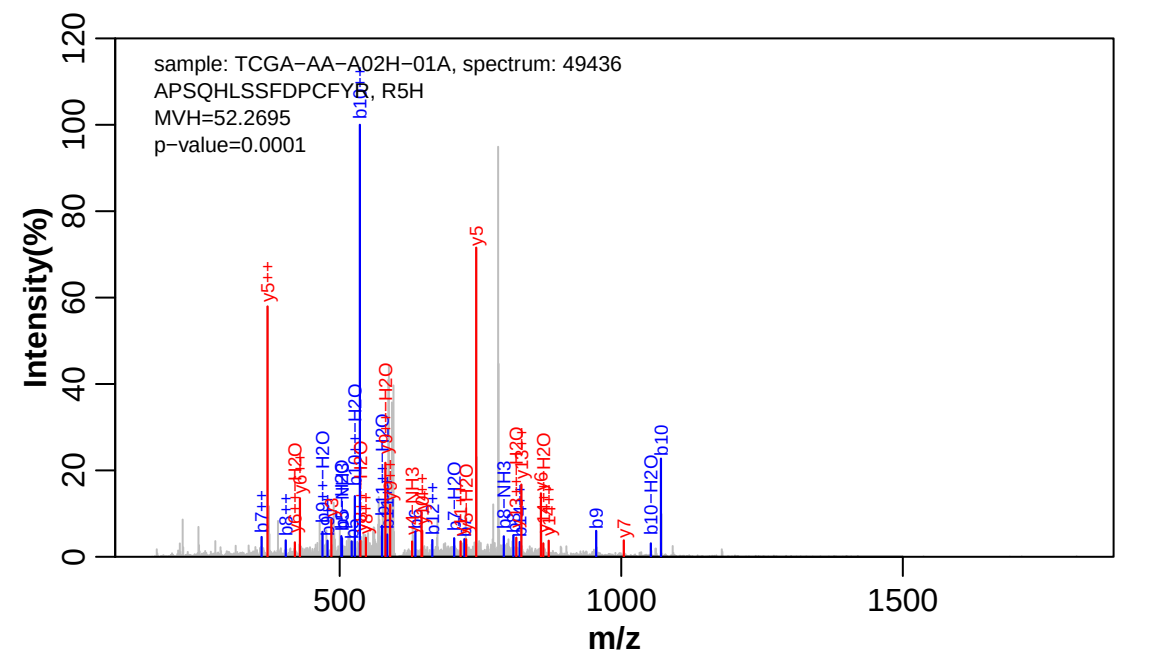

sample: TCGA−AA−A02H−01A, spectrum: 61421
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=50.6213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b8
b9
b7
y6
y5
y4
b6
y9
b16
b11−NH3
b13−H2O
b26++
b28++−H2O
b28++−NH3
b19++−H2O
b17++
y15++−H2O
y20++−H2O

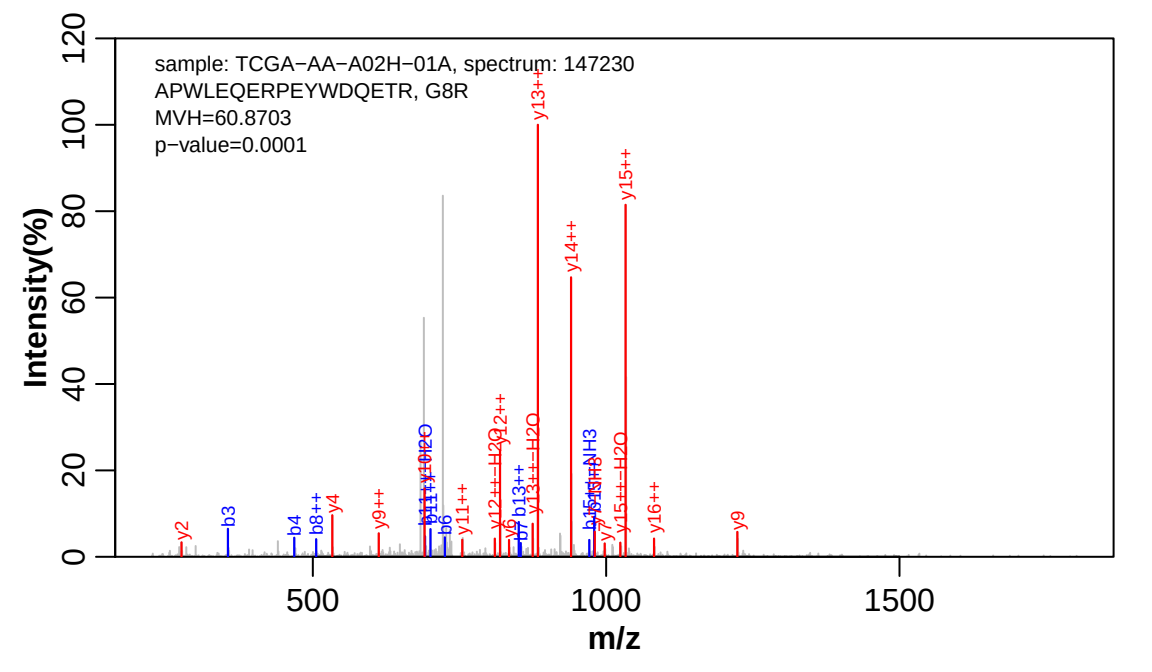

sample: TCGA−AA−A02H−01A, spectrum: 79419
AAAPAPVSEAVSR, C12S
MVH=51.3009
p−value=0.0001
b5
y8
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

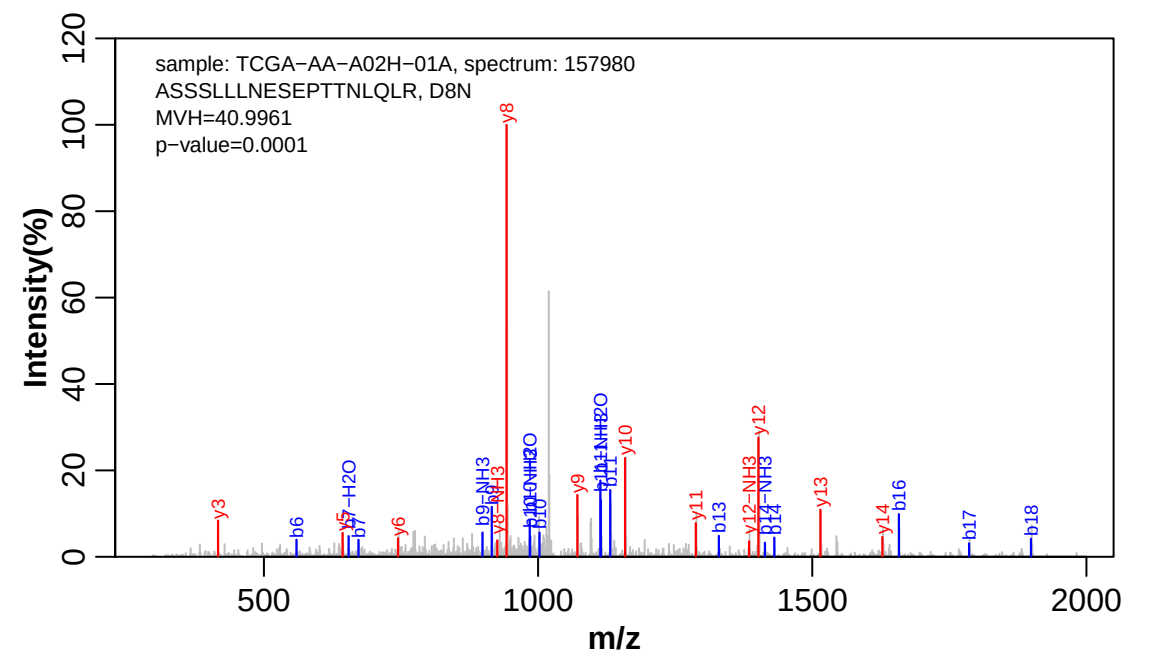

sample: TCGA−AA−A02H−01A, spectrum: 74296
AAGAELDSLLKPELLSALEK, P6L
MVH=51.0791
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y18++
y16++
y15++
y14++
y13++
y10++
y9++
y9
b11
b10
b9
b6

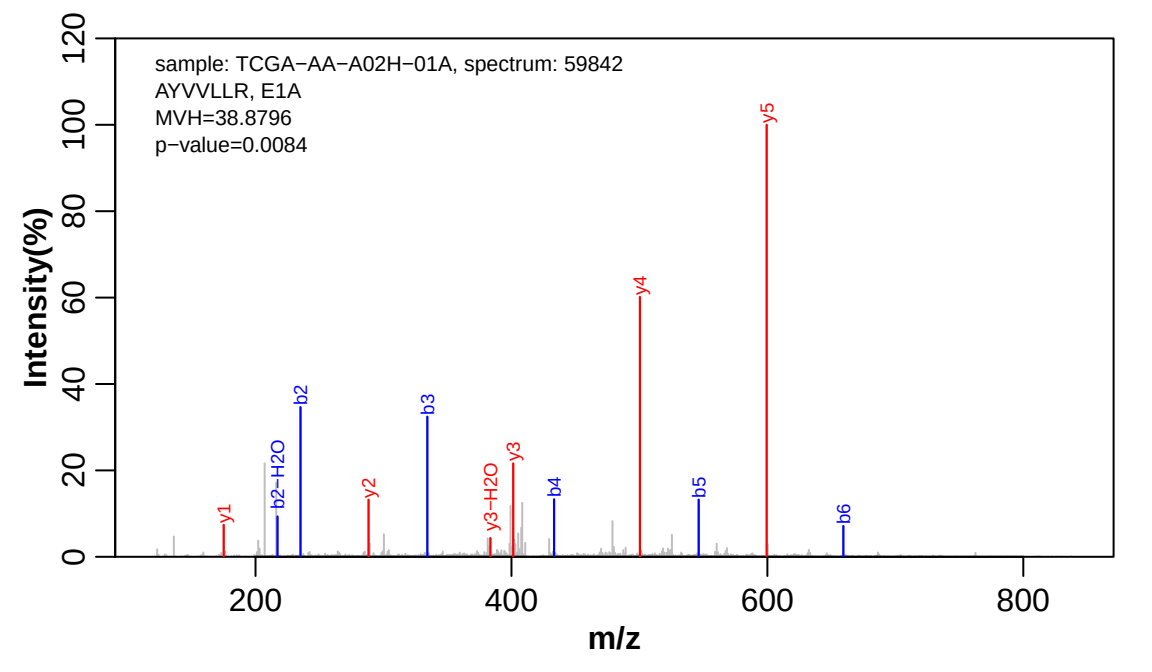

sample: TCGA−AA−A02H−01A, spectrum: 50171
AAPSVTLFPPSSEELQANK, T2A
MVH=50.3071
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

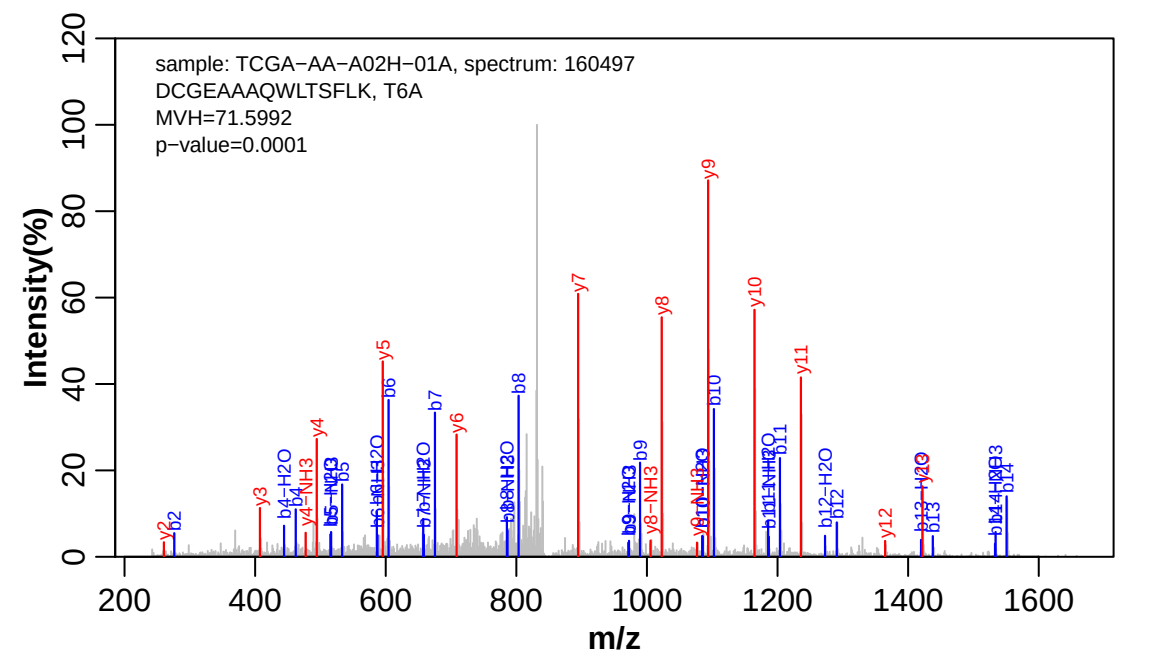

sample: TCGA−AA−A02H−01A, spectrum: 11342
AGVETTTPSK, K7T
MVH=58.2600
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y8

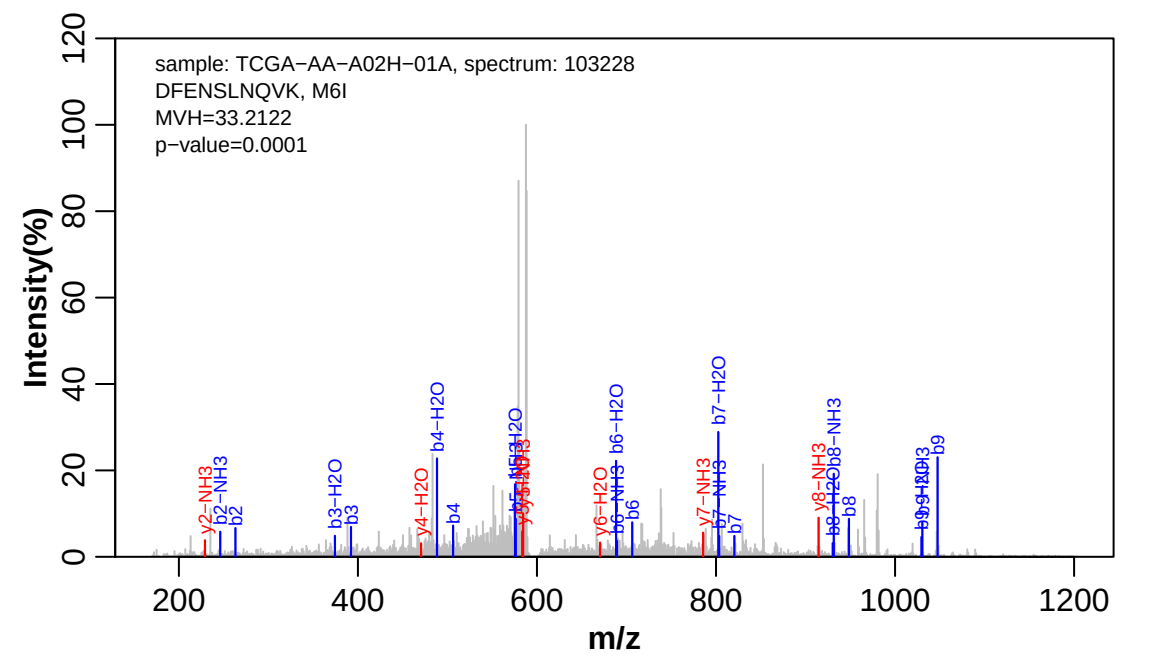

sample: TCGA−AA−A02H−01A, spectrum: 49436
APSQHLSSFDPCFYR, R5H
MVH=52.2695
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b10++
y5++
y5
b10
b10−H2O
b9
y7
b7++
b8++
b8−NH3
b7−H2O
b8−H2O
b12++
y6+++
y6+++−H2O
y6+++−NH3
y6+++−H2O
y6++
y6++−H2O
y6++−NH3
y6++−H2O
b10++−H2O
b10++−NH3
b10++−H2O
b8++
b8++−H2O
b8++−NH3
b8++−H2O
y6++
y6++−H2O
y6++−NH3
y6++−H2O
b7++
b7++−H2O
b7++−NH3
b7++−H2O

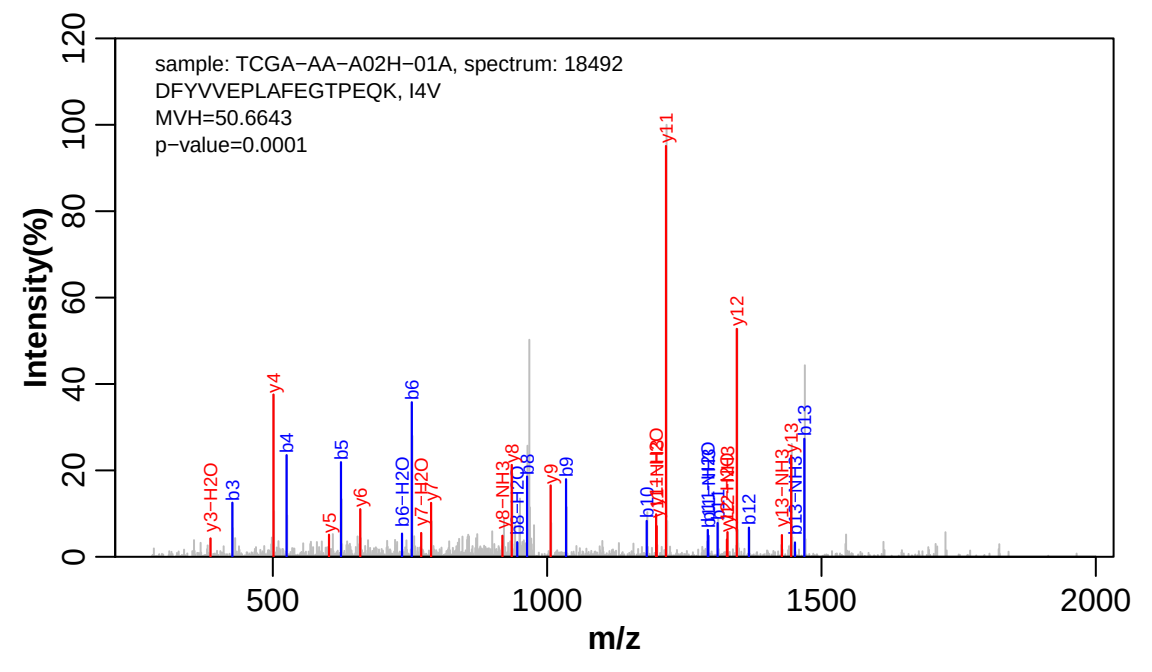

sample: TCGA−AA−A02H−01A, spectrum: 147230
APWLEQERPEYWDQETR, G8R
MVH=60.8703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b3
b4
b8++
y4
y9++
b11*-H2O
b11*+H2O
b6
y11++
y12++-H3O
y12++
y6
b7
b13++
y13++-H2O
y13++
b15++-NH3
y7
y15++-H2O
y14++
y15++
y16++
y9

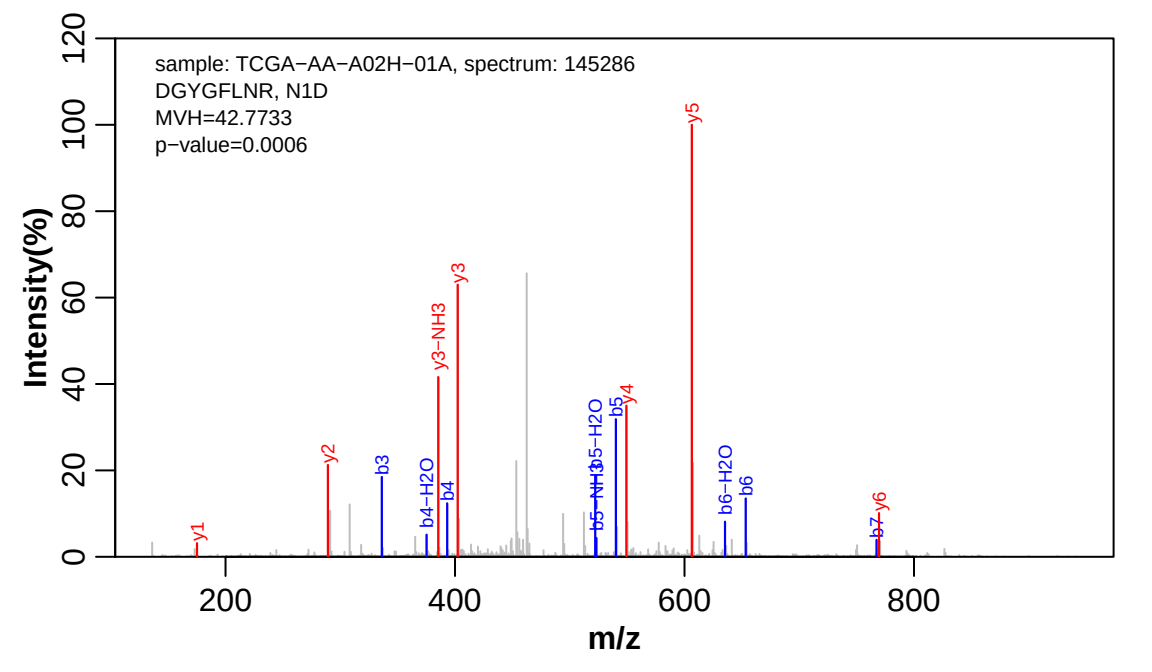

sample: TCGA−AA−A02H−01A, spectrum: 157980
ASSSLLLNESEPTTNLQLR, D8N
MVH=40.9961
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b6
y5−H2O
b7
y6
b9−NH3
y8−NH3
y8
b10−NH3
b10−H2O
b10
y9
b11−NH3
b11−H2O
y10
y11
b13
y12−NH3
y12
b14−NH3
b14
y13
y14
b16
b17
b18

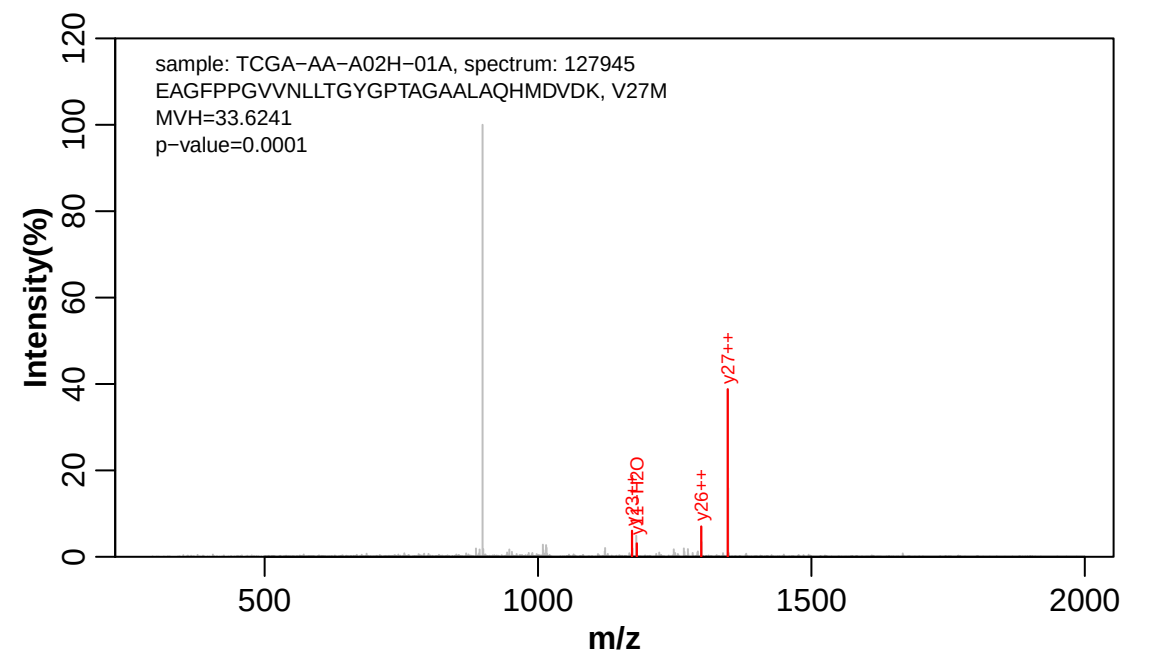

sample: TCGA−AA−A02H−01A, spectrum: 59842
AYVVLLR, E1A
MVH=38.8796
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
y2
b3
y3−H2O
y3
b4
y4
b5
y5
b6

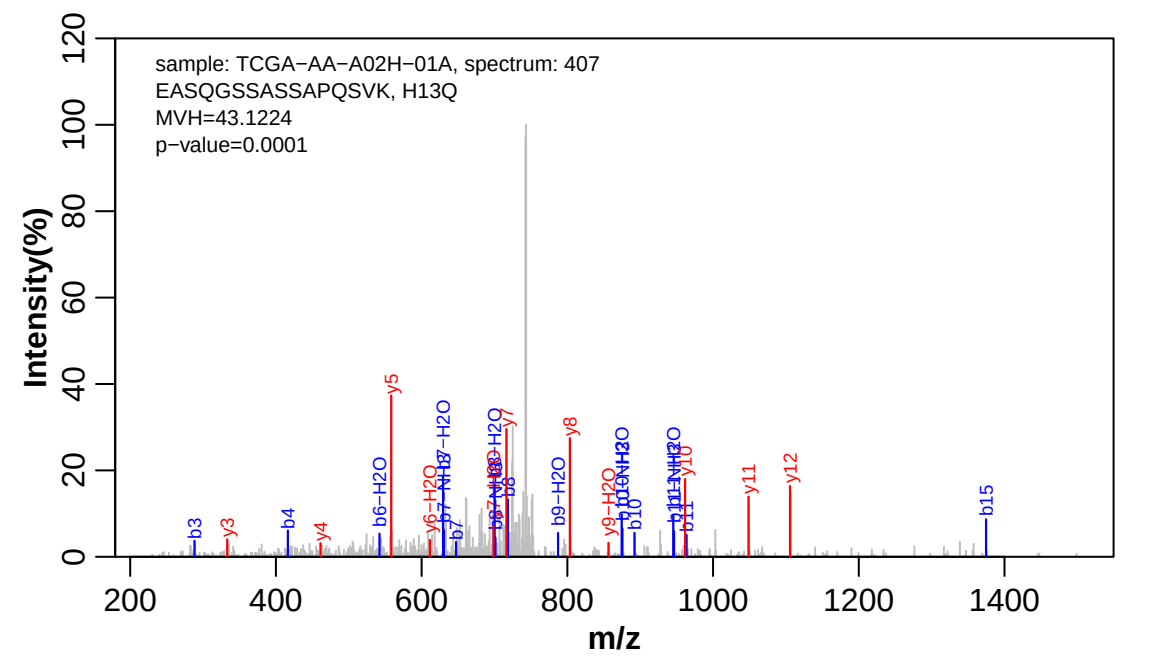

sample: TCGA−AA−A02H−01A, spectrum: 160497
DCGEAAAQWLTSFLK, T6A
MVH=71.5992
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b2
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5
b6−NH3
b6−H2O
y5
b6
b7−NH3
b7−H2O
b7
y6
b8−NH3
b8−H2O
b8
b9−NH3
b9
y7
y8−NH3
y8
b10−NH3
b10
y9
b11−NH3
b11−H2O
b11
y10
b12−H2O
b12
y11
y12
b13−H2O
b13
b14−NH3
b14

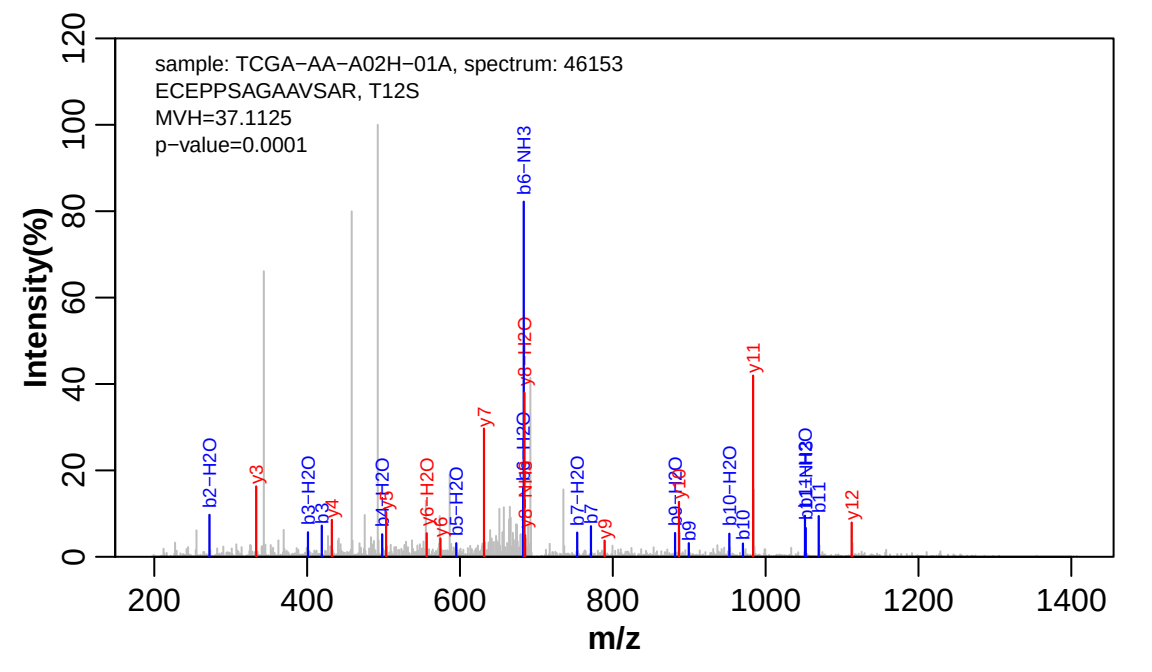

sample: TCGA−AA−A02H−01A, spectrum: 103228
DFENSLNQVK, M6I
MVH=33.2122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2−NH3
b2−NH3
b2
b3−H2O
b3
y4−H2O
b4−H2O
b4
b5−H2O
b6−H2O
y6−H2O
b6−NH3
b6
y7−NH3
b7−H2O
b7−NH3
b7
y8−NH3
b8−H2O
b8−NH3
b8
b9
b9−H2O
b9−NH3

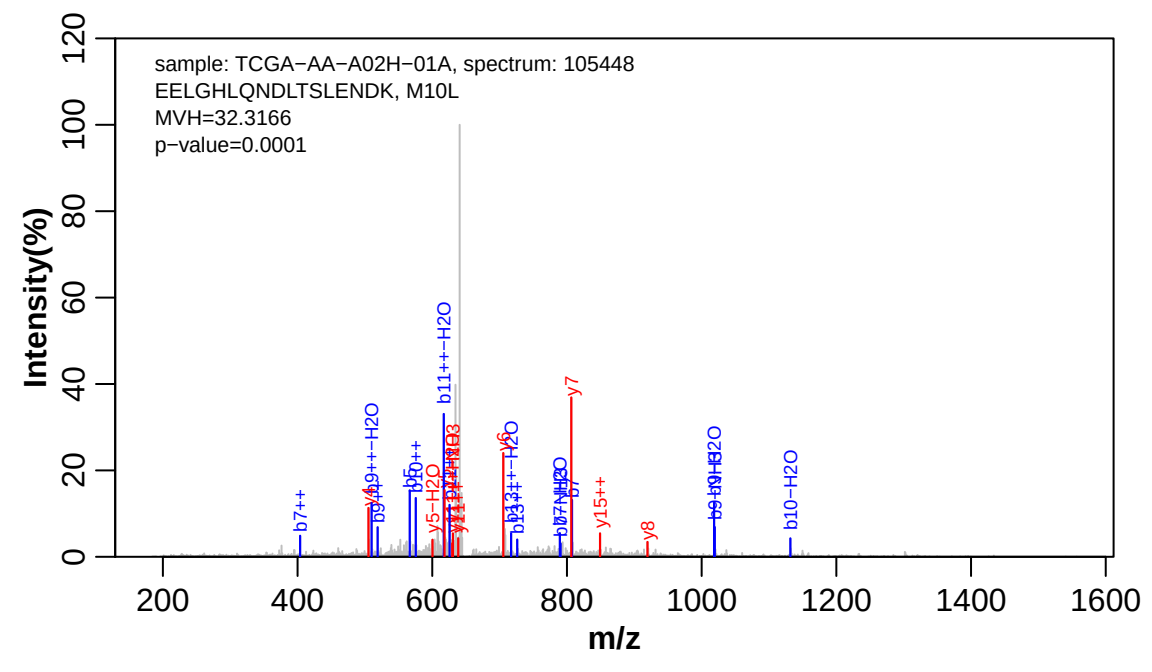

sample: TCGA−AA−A02H−01A, spectrum: 18492
DFYVVEPLAFEGTPEQK, I4V
MVH=50.6643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
y12
y4
b4
b5
b6
b3
y3−H2O
y5
y6
b6−H2O
y7−H2O
y8−NH3
y8
b8−H2O
b8
y9
b9
b10
y11−NH3
y11−H2O
b12
y12−NH3
y12−H2O
y13−NH3
y13
b13

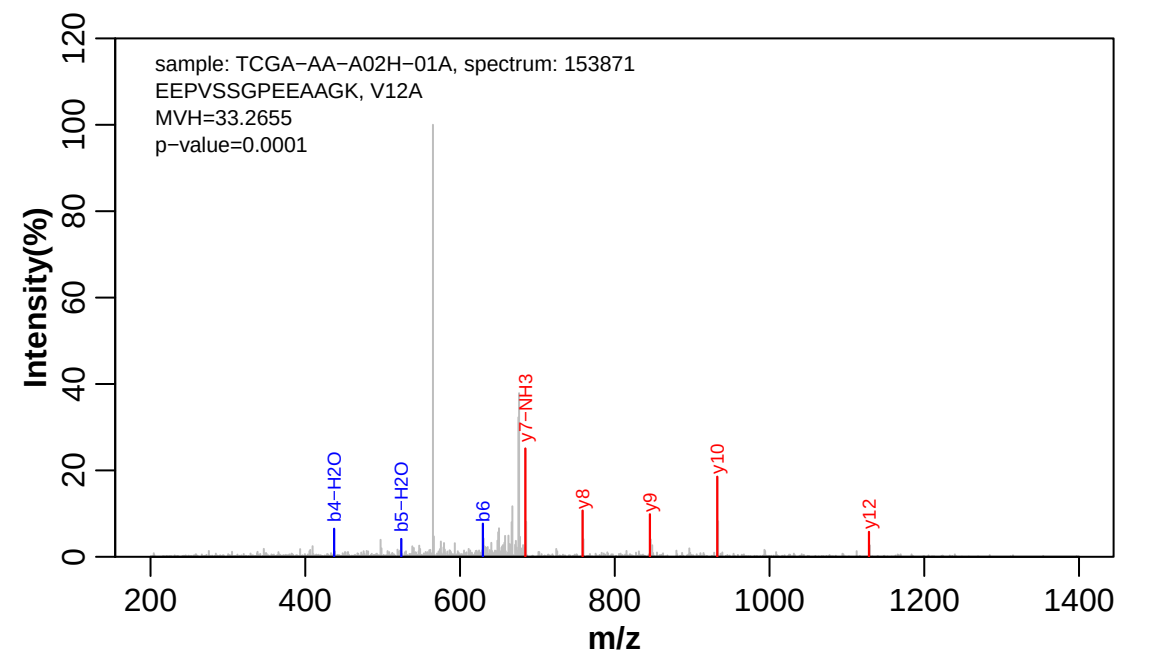

sample: TCGA−AA−A02H−01A, spectrum: 145286
DGYGFLNR, N1D
MVH=42.7733
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

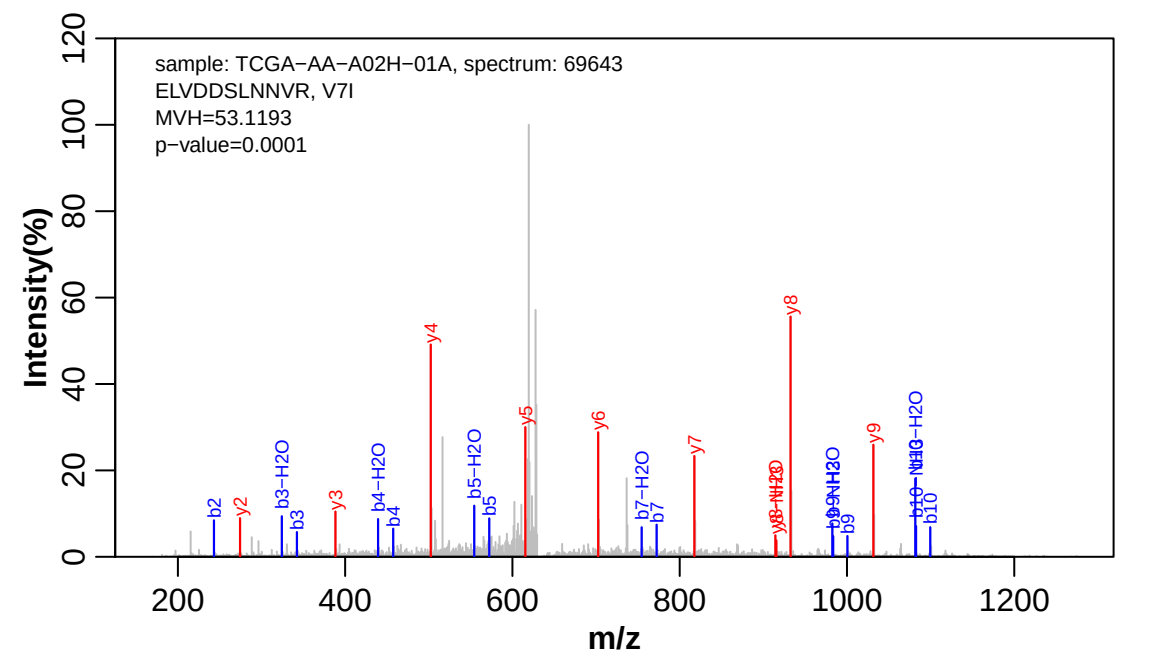

sample: TCGA−AA−A02H−01A, spectrum: 127945
EAGFPPGVVNLLTGYGPTAGAALAQHMDVDK, V27M
MVH=33.6241
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y27++
y26++
y23−H2O
y23

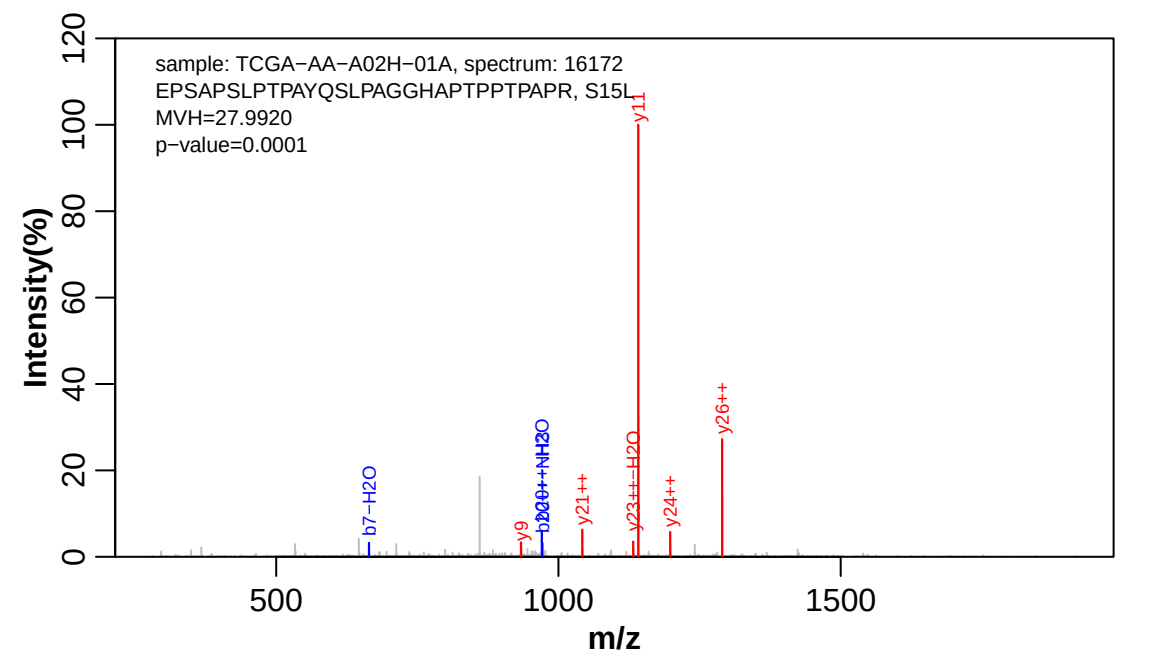

sample: TCGA−AA−A02H−01A, spectrum: 407
EASQGSSASSAPQSVK, H13Q
MVH=43.1224
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
y4
b6−H2O
y5
y6−H2O
b7−NH3
b7−H2O
b7
b8−NH3
b8−H2O
y7
b8
b9−H2O
y8
y9−H2O
b10−NH3
b10−H2O
b10
b11−NH3
b11−H2O
b11
y10
y11
y12
b15

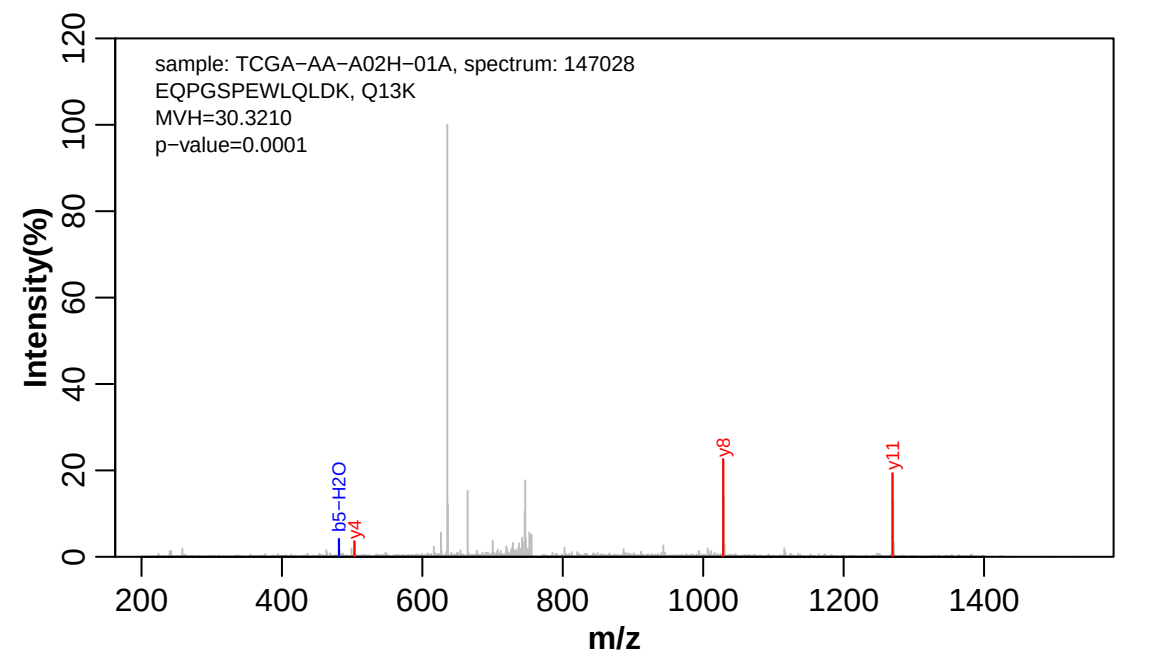

sample: TCGA−AA−A02H−01A, spectrum: 46153
ECEPPSAGAAVSAR, T12S
MVH=37.1125
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
y3
b3−H2O
b3
y4
b4−H2O
y5
y6−H2O
y6
b5−H2O
b6−NH3
y7
y8−NH3−H2O
y8−H2O
b7−H2O
b7
y9
b9−H2O
b9
y10
b10−H2O
b10
y11
b11−NH3
b11−H2O
b11
y12

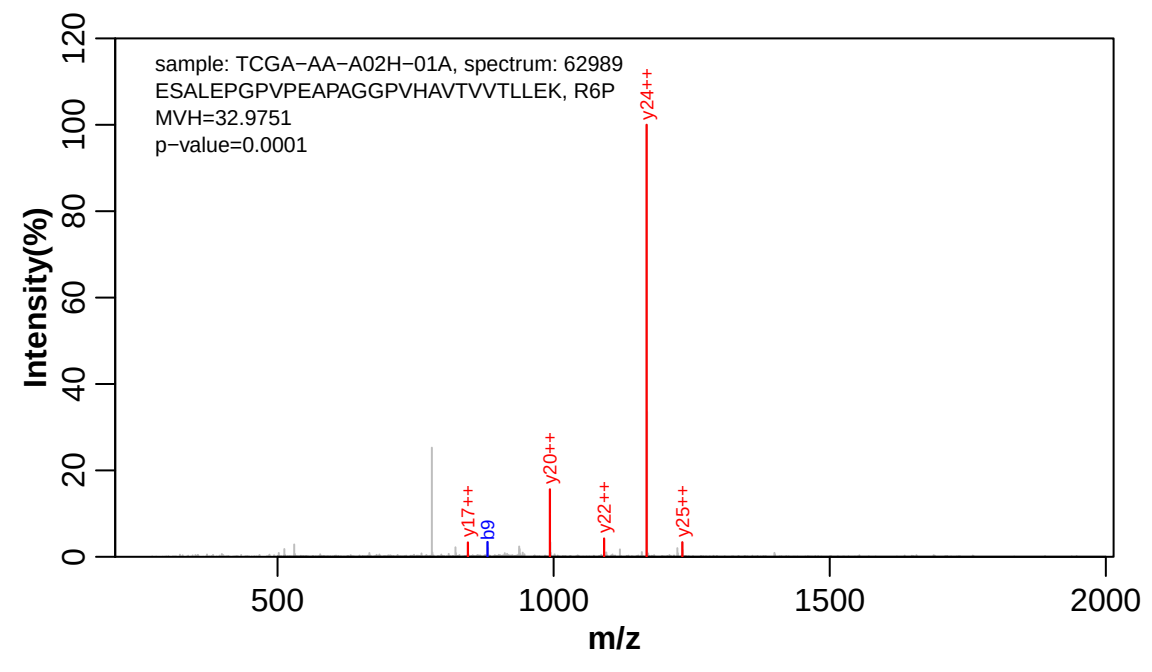

sample: TCGA−AA−A02H−01A, spectrum: 105448
EELGHLQNDLTSLENDK, M10L
MVH=32.3166
p−value=0.0001
Intensity(%)
m/z
b7++
b11++−H2O
y7
y15++
y8
b10−H2O

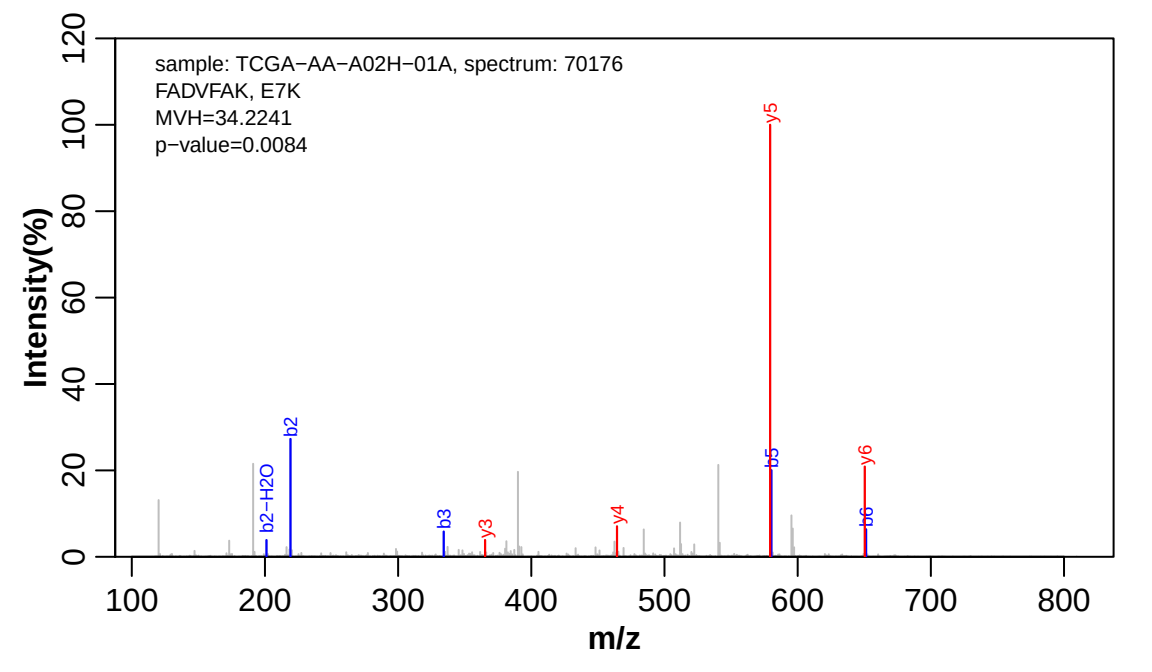

sample: TCGA−AA−A02H−01A, spectrum: 153871
EEPVSSGPEEAAGK, V12A
MVH=33.2655
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−H2O
b5−H2O
b6
y7−NH3
y8
y9
y10
y12

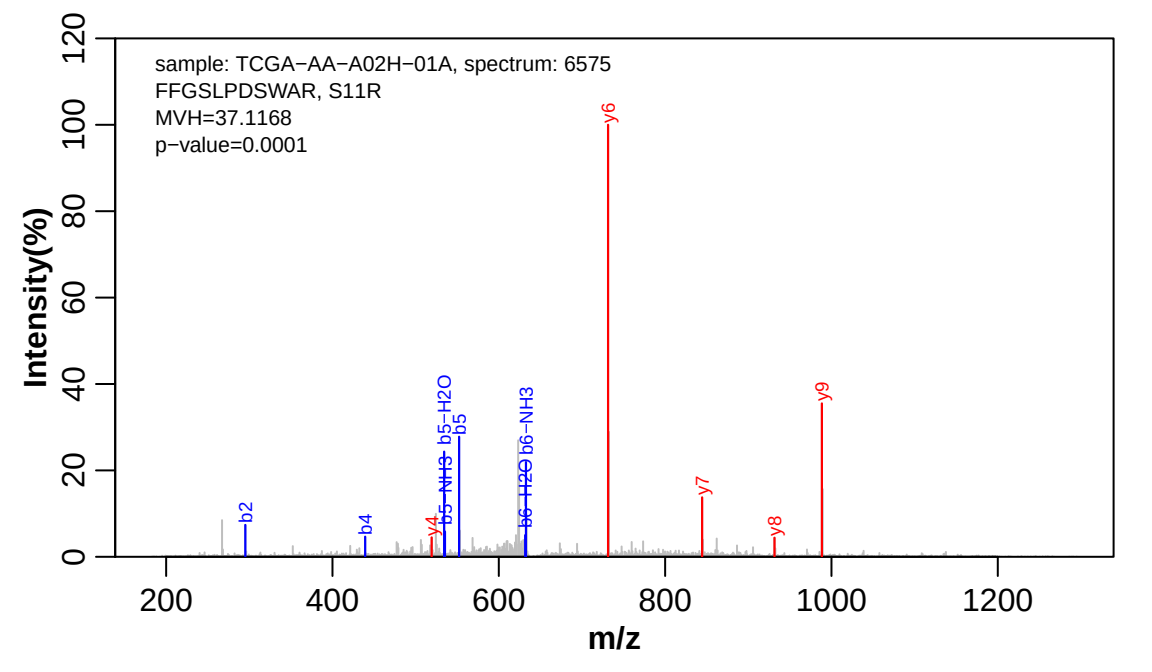

sample: TCGA−AA−A02H−01A, spectrum: 69643
ELVDDSLNNVR, V7I
MVH=53.1193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O
b5
y4
y5
y6
b7−H2O
b7
y7
y8
y9
b10−H2O
b10

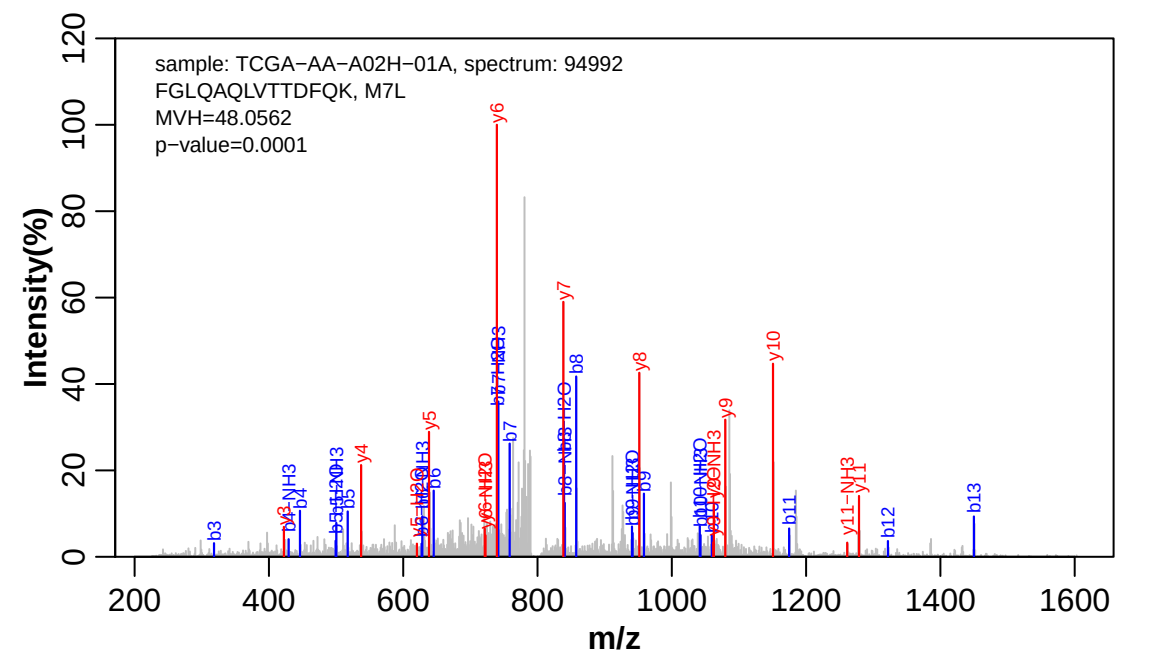

sample: TCGA−AA−A02H−01A, spectrum: 16172
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=27.9920
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
y11
y26++
y23++−H2O
y24++
y21++
y9
b7−H2O

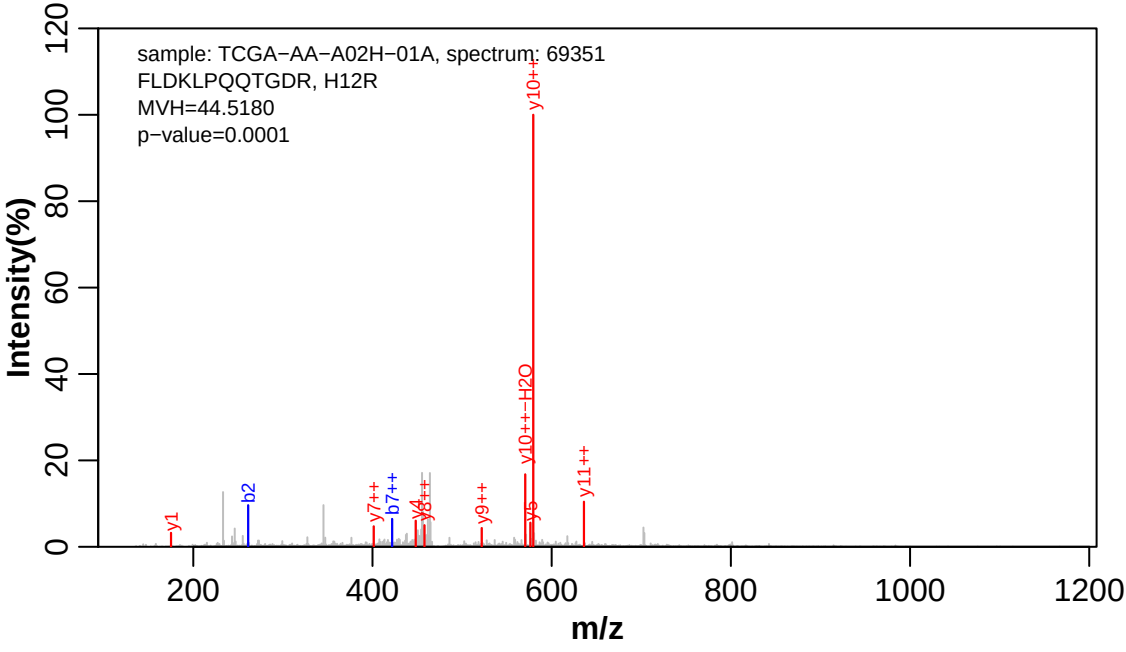

sample: TCGA−AA−A02H−01A, spectrum: 147028
EQPGSPEWLQLDK, Q13K
MVH=30.3210
p−value=0.0001
b5−H2O
y4
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

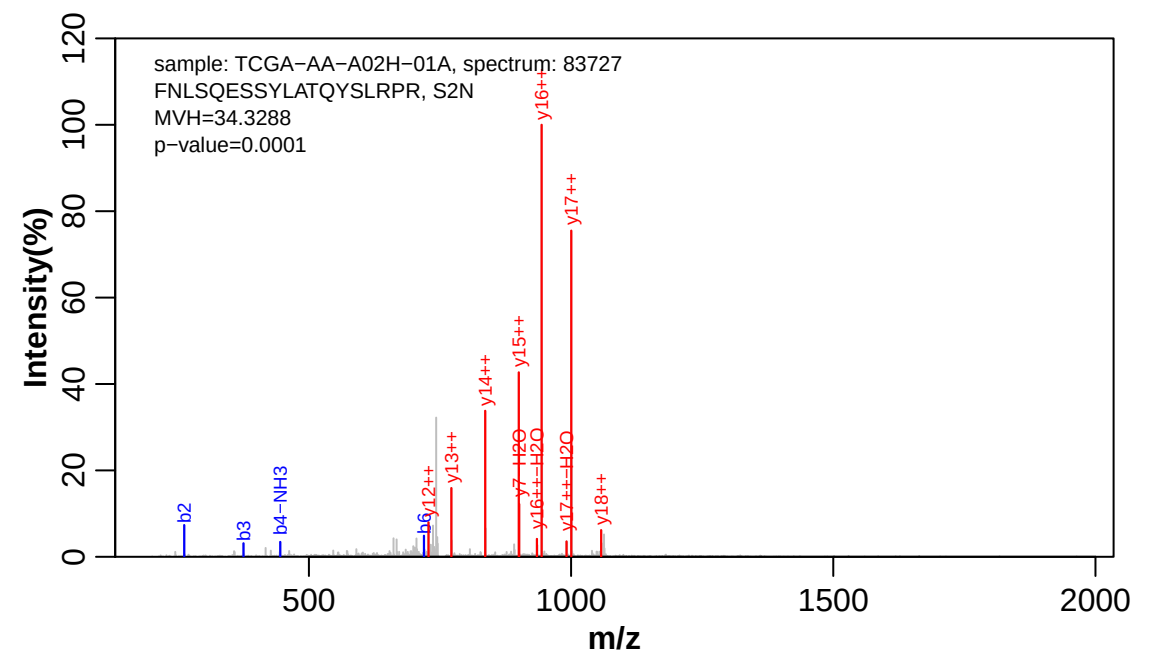

sample: TCGA−AA−A02H−01A, spectrum: 62989
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=32.9751
p−value=0.0001
y24++
y20++
y17++
b9
y22++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

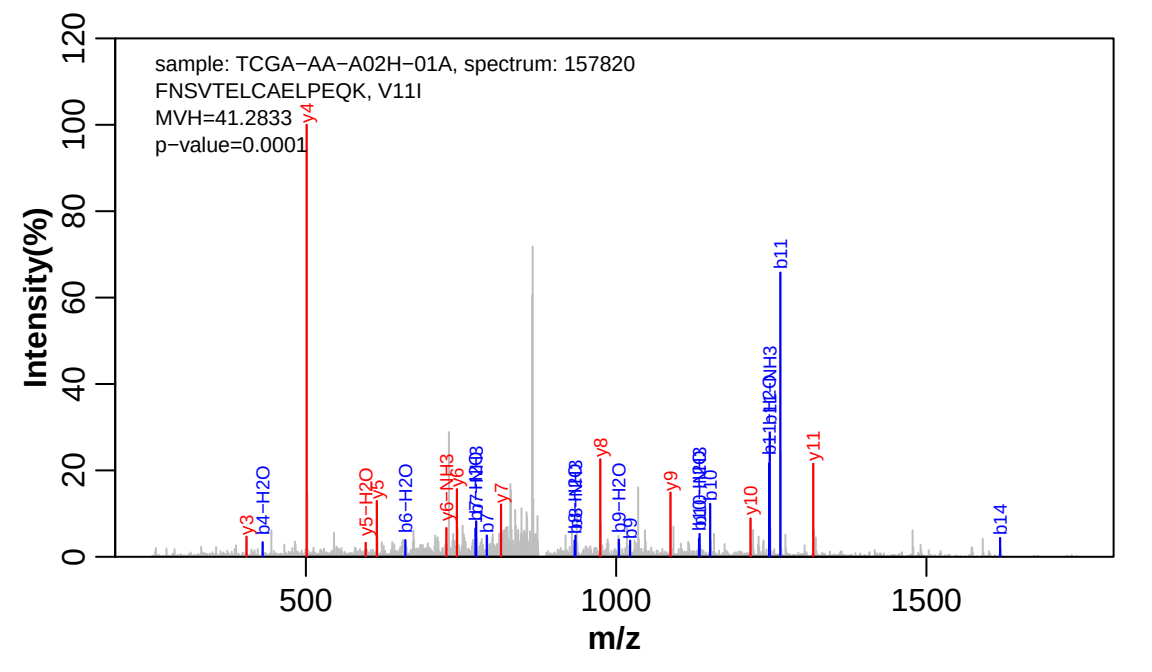

sample: TCGA−AA−A02H−01A, spectrum: 70176
FADVFAK, E7K
MVH=34.2241
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2−H2O
b2
b3
y3
y4
y5
b5
y6
b6

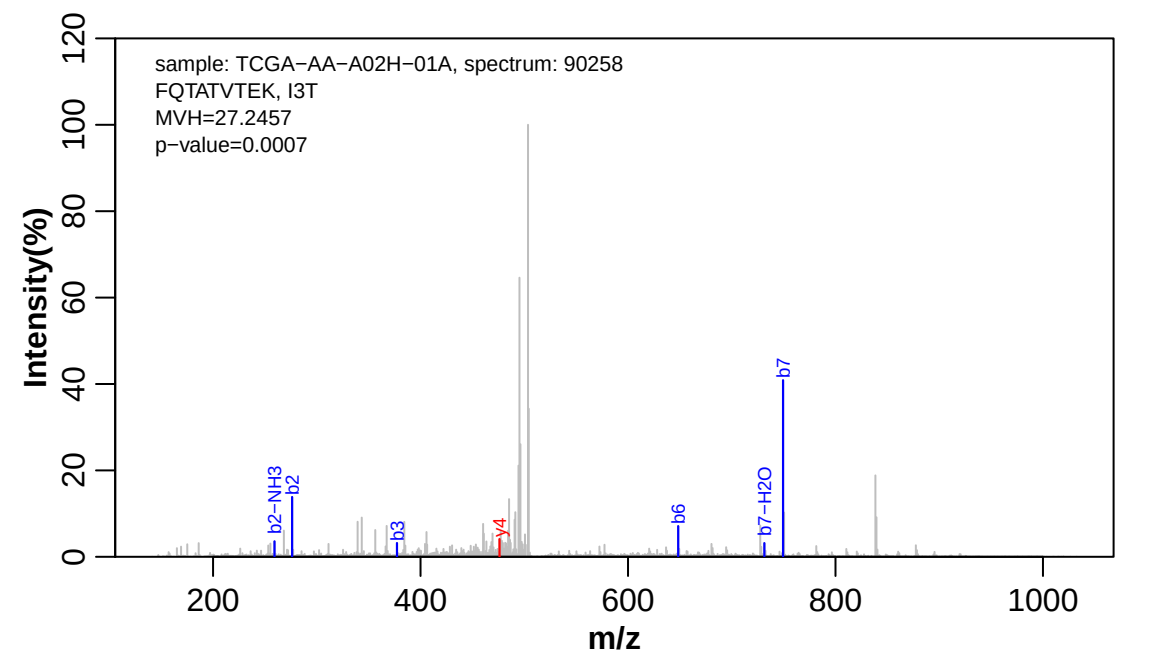

sample: TCGA−AA−A02H−01A, spectrum: 6575
FFGSLPDSWAR, S11R
MVH=37.1168
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y7
y8
y9

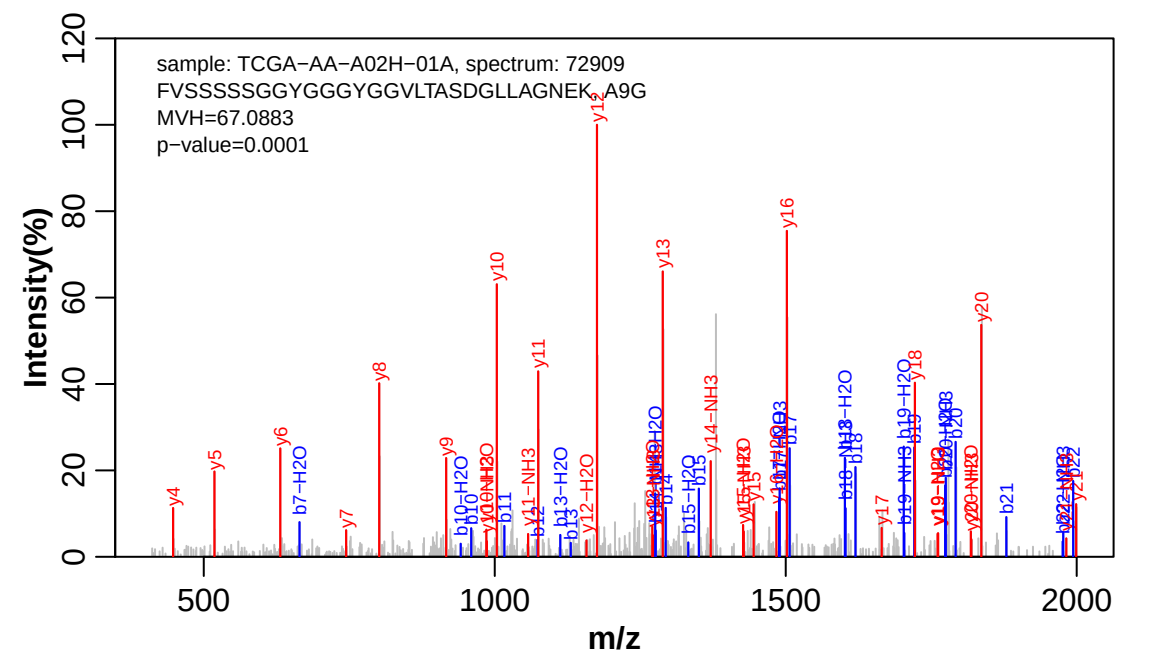

sample: TCGA−AA−A02H−01A, spectrum: 94992
FGLQAQLVTTDFQK, M7L
MVH=48.0562
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y5
y4
y9
b7
b8
b11
b13
b12
b3
b4
b5
b6
b9
y11
y11−NH3

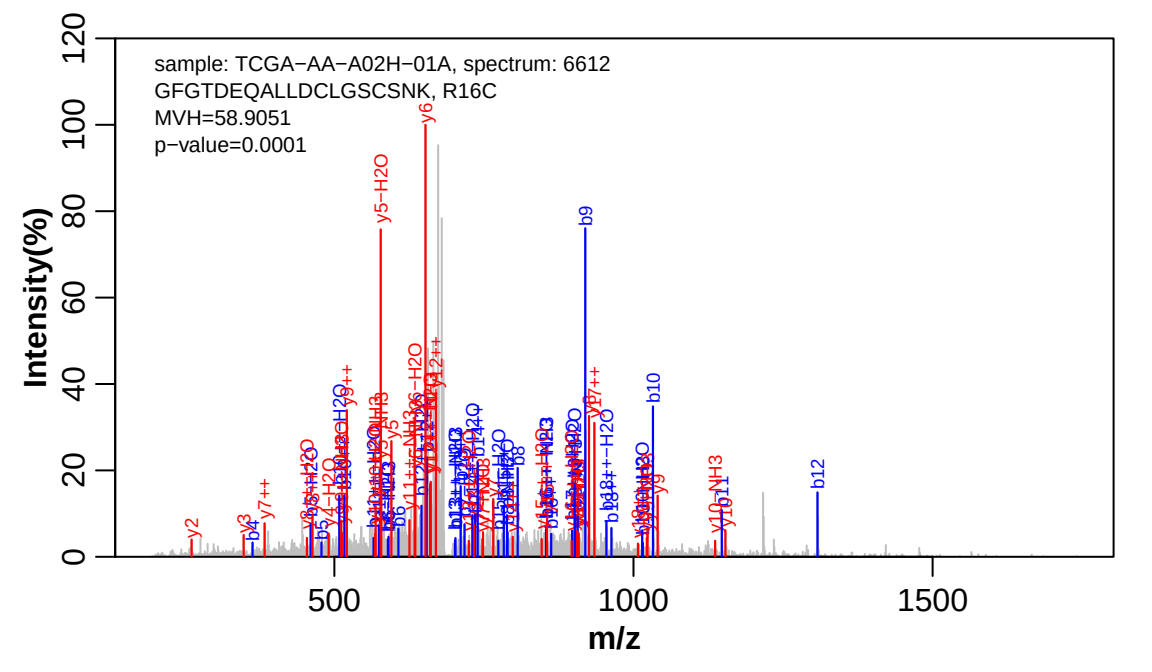

sample: TCGA−AA−A02H−01A, spectrum: 69351
FLDKLPQQTGDR, H12R
MVH=44.5180
p−value=0.0001
Intensity(%)
m/z
y1
b2
y7++
b7++
y8++
y4
y9++
y10++−H2O
y10++
y5
y11++
0
20
40
60
80
100
120
200
400
600
800
1000
1200

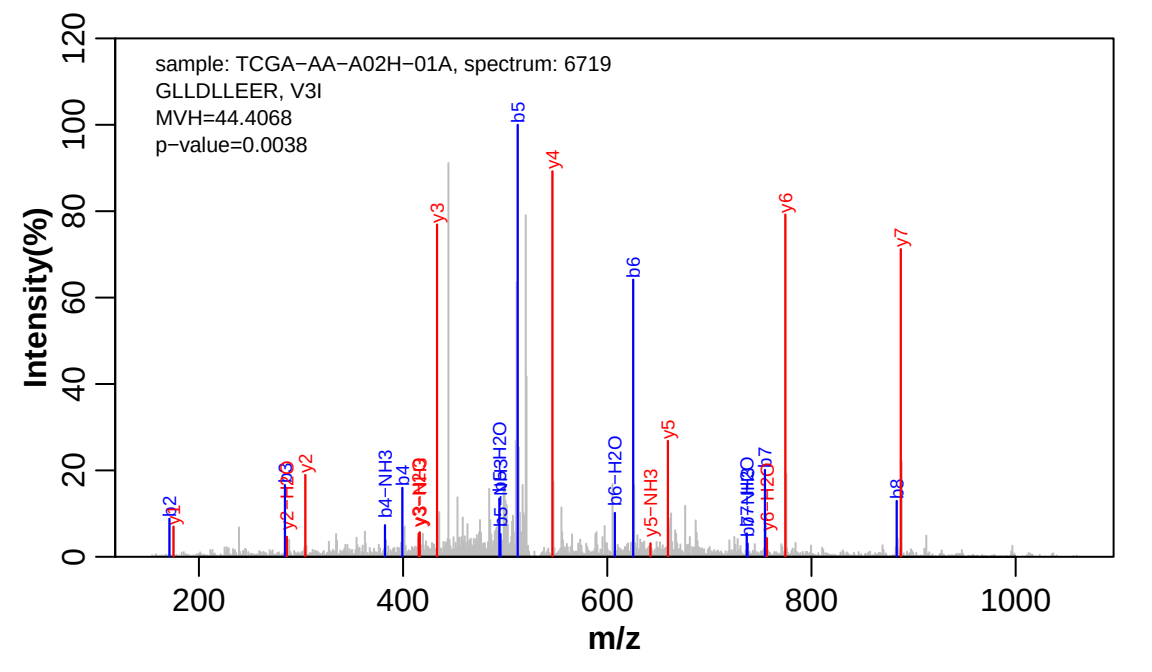

sample: TCGA−AA−A02H−01A, spectrum: 83727
FNLSQESSYLATQYSLRPR, S2N
MVH=34.3288
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
b3
b4−NH3
b6
y12++
y13++
y14++
y7−H2O
y15++
y16++−H2O
y17++−H2O
y16++
y17++
y18++

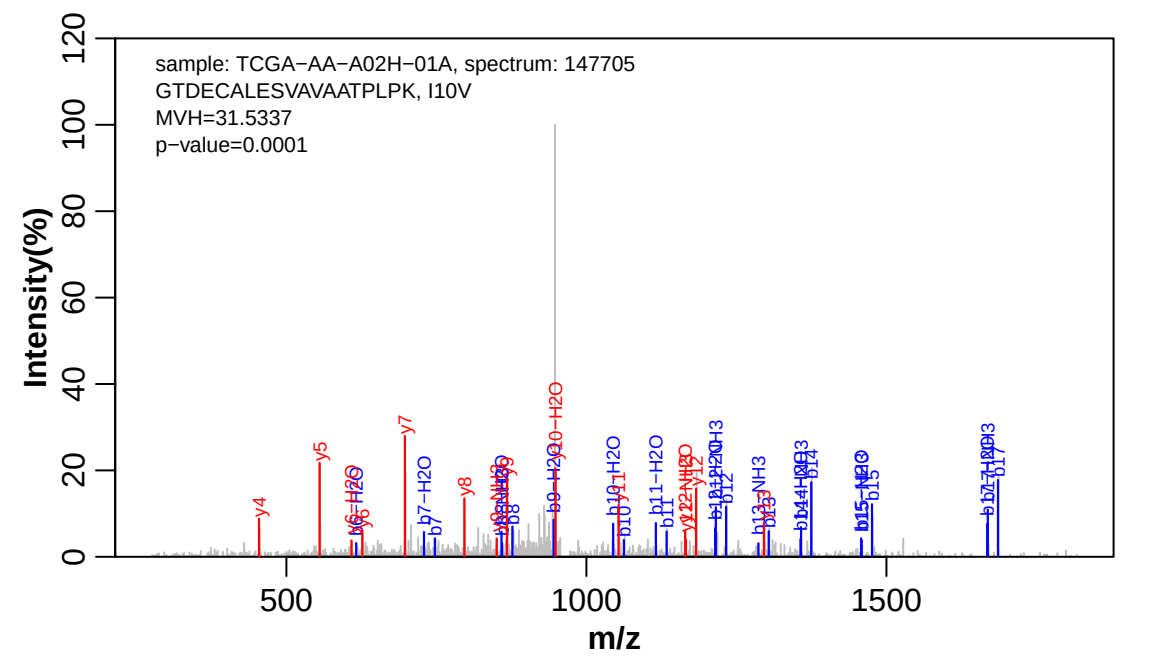

sample: TCGA−AA−A02H−01A, spectrum: 157820
FNSVTELCAELPEQK, V11I
MVH=41.2833
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y3
b4−H2O
y5−H2O
y5
b6−H2O
y6−NH3
y6
y7
y8
b9−H2O
y9
y10
b11
y11
b14

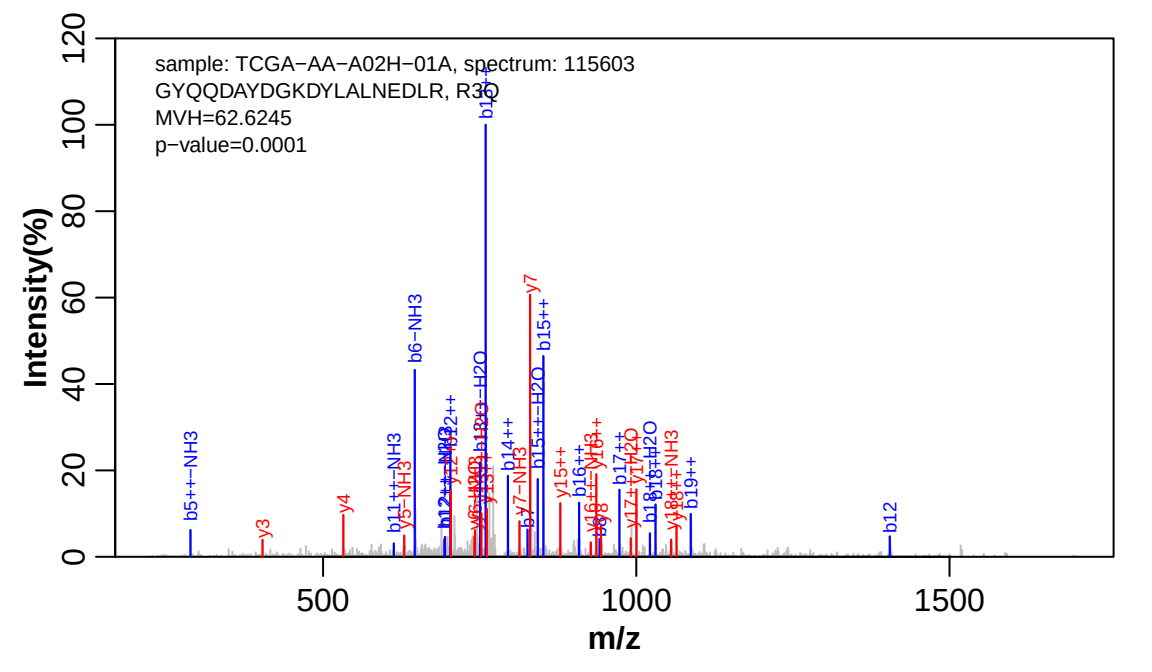

sample: TCGA−AA−A02H−01A, spectrum: 90258
FQTATVTEK, I3T
MVH=27.2457
p−value=0.0007
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
y4
b6
b7−H2O
b7

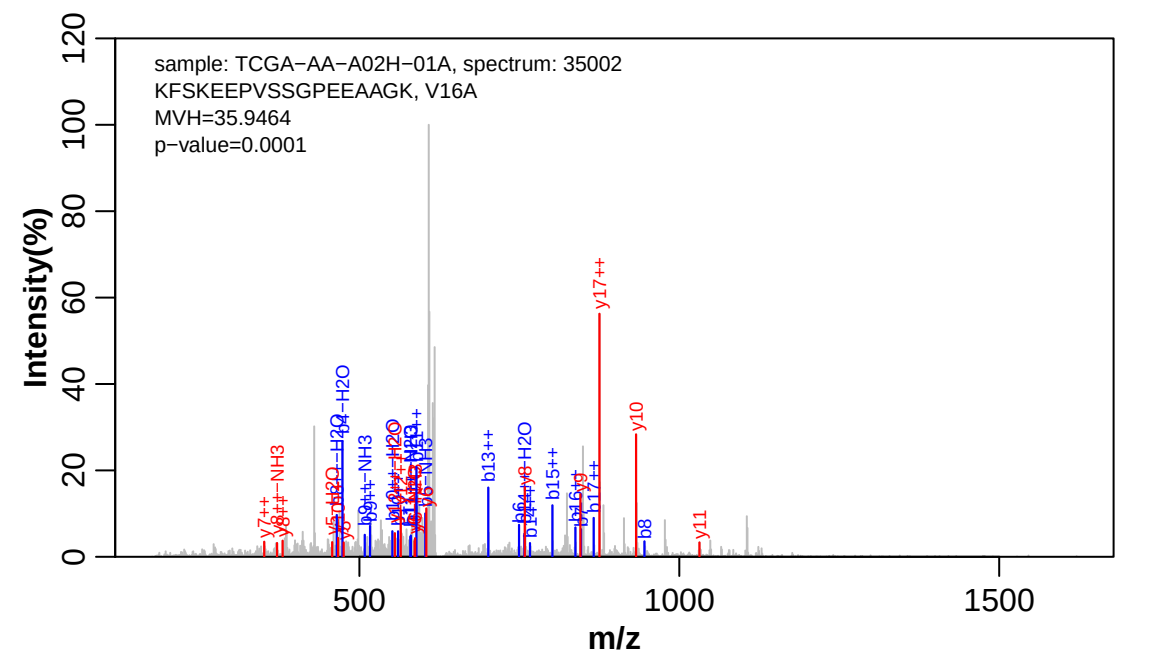

sample: TCGA−AA−A02H−01A, spectrum: 72909
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=67.0883
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
b7−H2O
y7
y8
b10−H2O
y9
b11
y10
y11
y11−NH3
b12
b13−H2O
y12−H2O
y12
y13
b15−H2O
y14−NH3
y16
b17
b18
b18−NH3−H2O
y17
b19−NH3
b19−H2O
y18
b19
b20
y20
b21

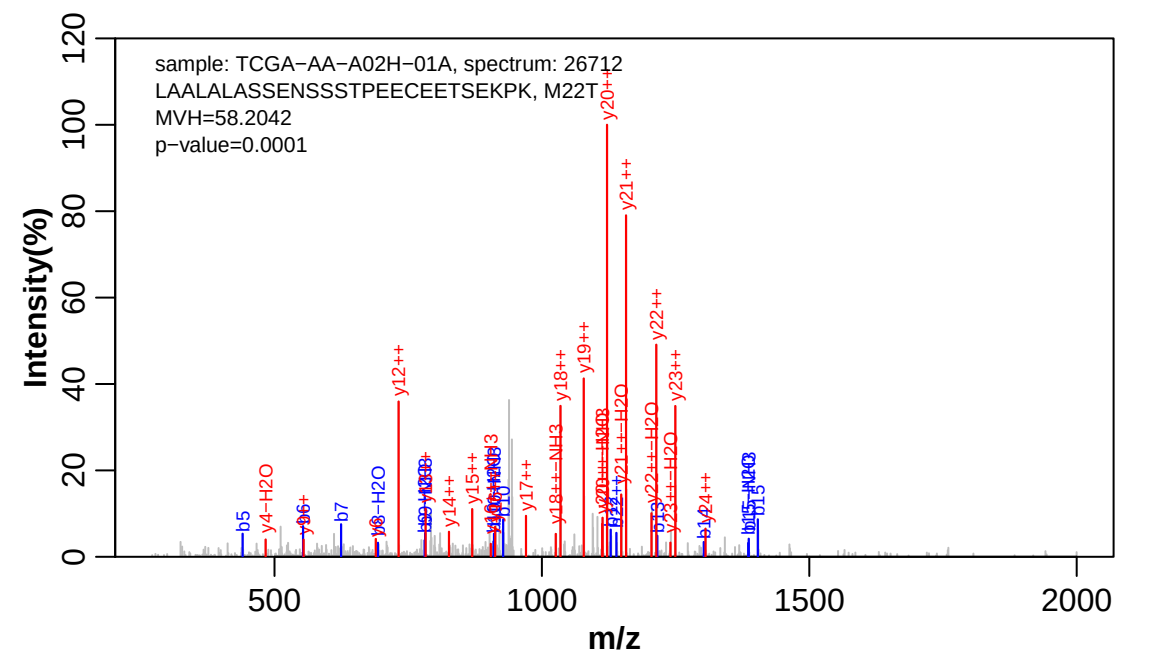

sample: TCGA−AA−A02H−01A, spectrum: 6612
GFGTDEQALLDCLGSCSNK, R16C
MVH=58.9051
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y2
b3
y7++
b4
y10−NH3
y11
y9
y8++
y6++
y5
b8
b7
b6
b5
y4−H2O
y3
y12++
y9++
y8
y7
y5++
b11
b12−H2O
b11−H2O
b11−NH3
b12−NH3
b12−H2O
b11
b12
b10−H2O
b10−NH3
b9++
b9++−H2O
b8−H2O
b7−H2O
b6−H2O
b5−H2O
b4−H2O
b3−H2O
b2−H2O
b2−NH3
b3−NH3
b4−NH3
b5−NH3
b6−NH3
b7−NH3
b8−NH3
b9−NH3
b10−NH3
b11−NH3
b12−NH3

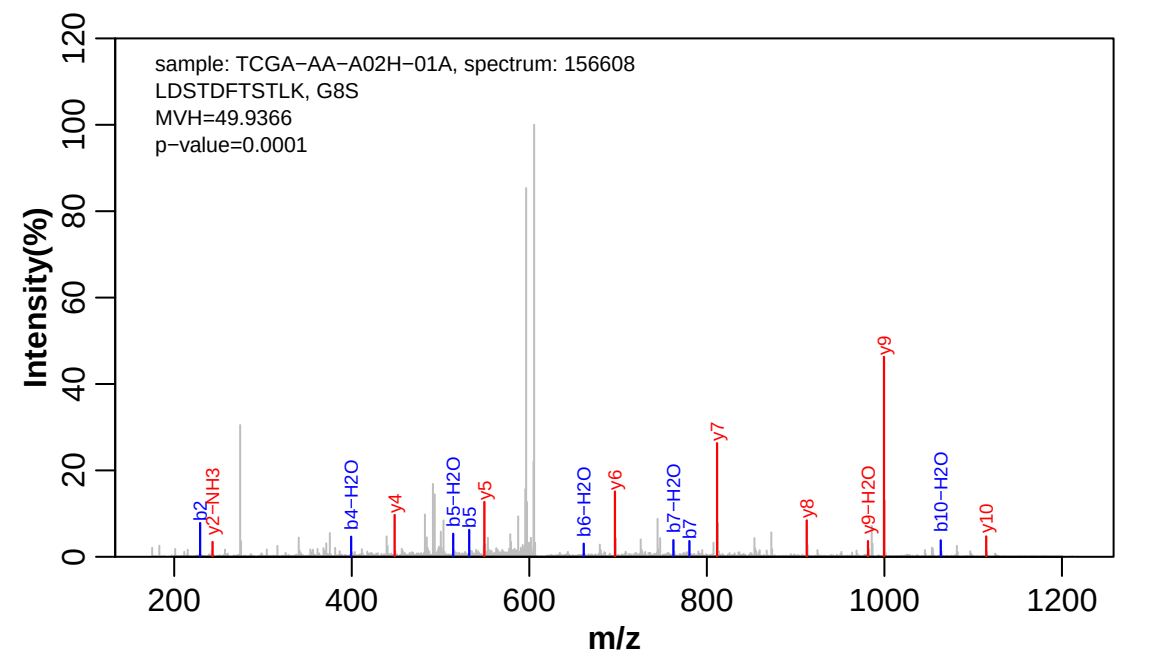

sample: TCGA−AA−A02H−01A, spectrum: 6719
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
y6
y7
b6
y5
b8
b4−NH3
b4
y2
y2−H2O
y2−NH3
y3−NH3
y3−H2O
b5−NH3
b5−H2O
b6−H2O
y5−NH3
b7−NH3
b7−H2O
y6−H2O
b7
y1
b2

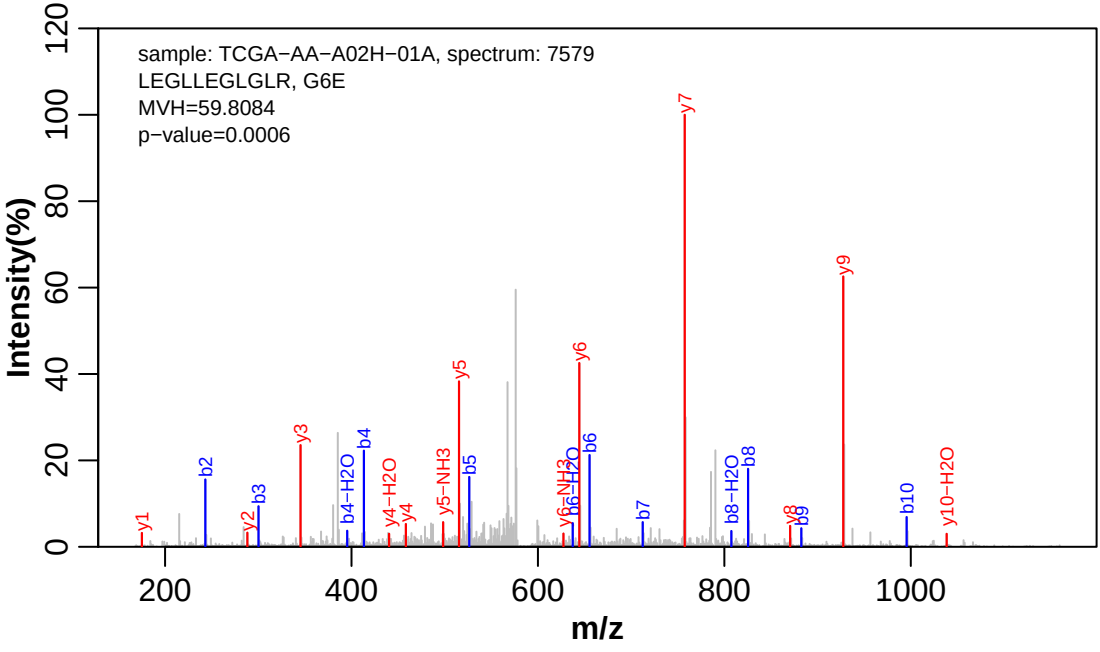

sample: TCGA−AA−A02H−01A, spectrum: 147705
GTDECALESVAVAATPLPK, I10V
MVH=31.5337
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6−H2O
y6
y7
y7−H2O
b7
y8
b8
b9−H2O
b9
b10−H2O
b10
y11
b11−H2O
b11
b12
b13−NH3
b13
b14
b15
b17

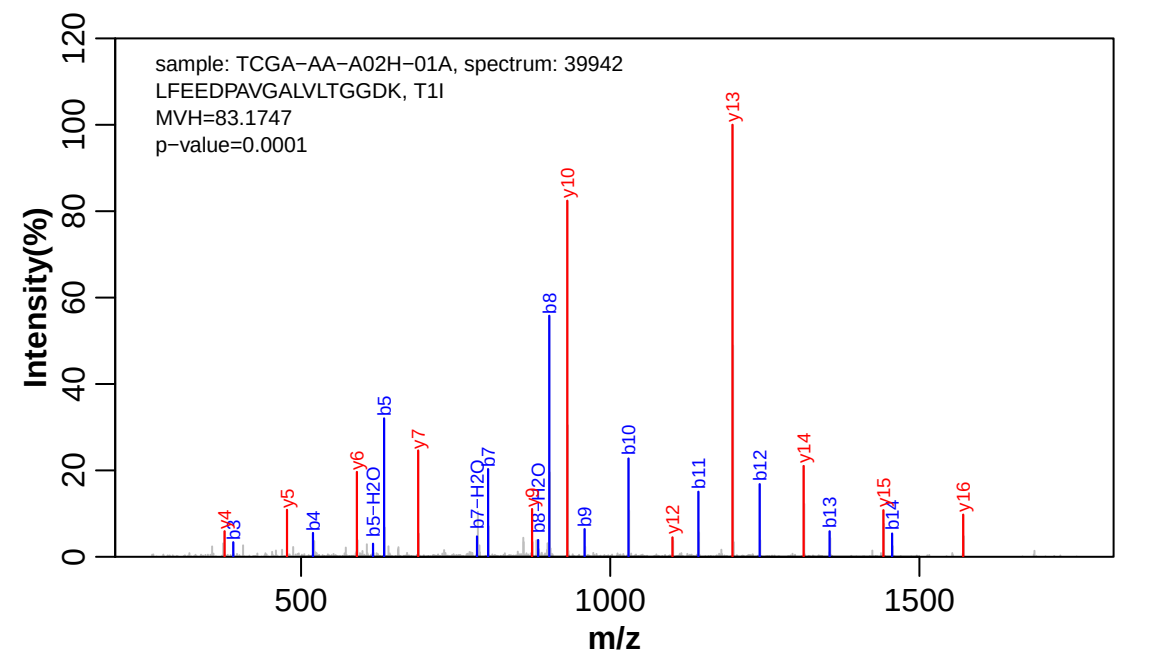

sample: TCGA−AA−A02H−01A, spectrum: 115603
GYQQDAYDGKDYLALNEDLR, R3O
MVH=62.6245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
y3
y4
b11++−NH3
y5−NH3
b6−NH3
b12++
b12++−NH3
b12++−H2O
b12++−H2O−NH3
b13++−H2O
b14++
y7−NH3
b15++−H2O
y7
b15++
y15++
b16++
y16++
y16++−NH3
b17++
y17++
y17++−H2O
b18++−H2O
y18++−NH3
b19++
b12

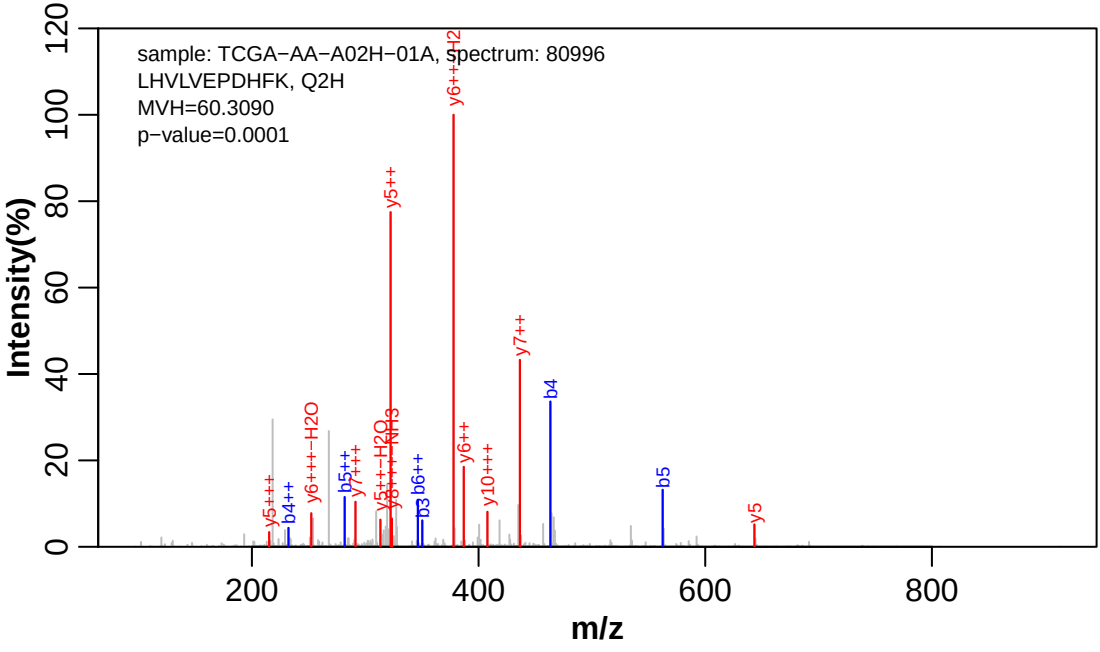

sample: TCGA−AA−A02H−01A, spectrum: 35002
KFSKEEPVSSGPEEAAGK, V16A
MVH=35.9464
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
y8++−NH3
y8++
b9++−NH3
b9++
b10++−H2O
b10++
b13++
b15++
y17++
y10
b8
y11

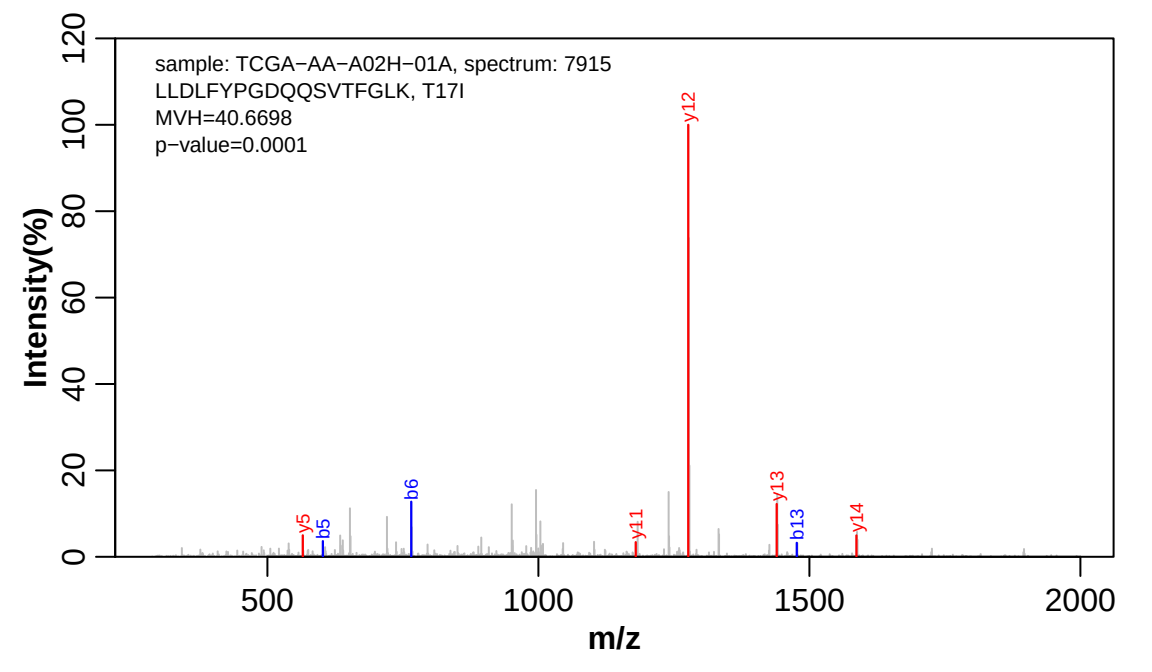

sample: TCGA−AA−A02H−01A, spectrum: 26712
LAALALASSENSSSTPEECEETSEKPK, M22T
MVH=58.2042
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y4−H2O
y16+
b7
y8−H2O
y12++
y14++
y15++
y17++
y18++−NH3
y18++
y19++
y20++
y21++
y21++−H2O
y22++
y22++−H2O
y23++
y23++−H2O
b14++
b15+−H2O
b15+

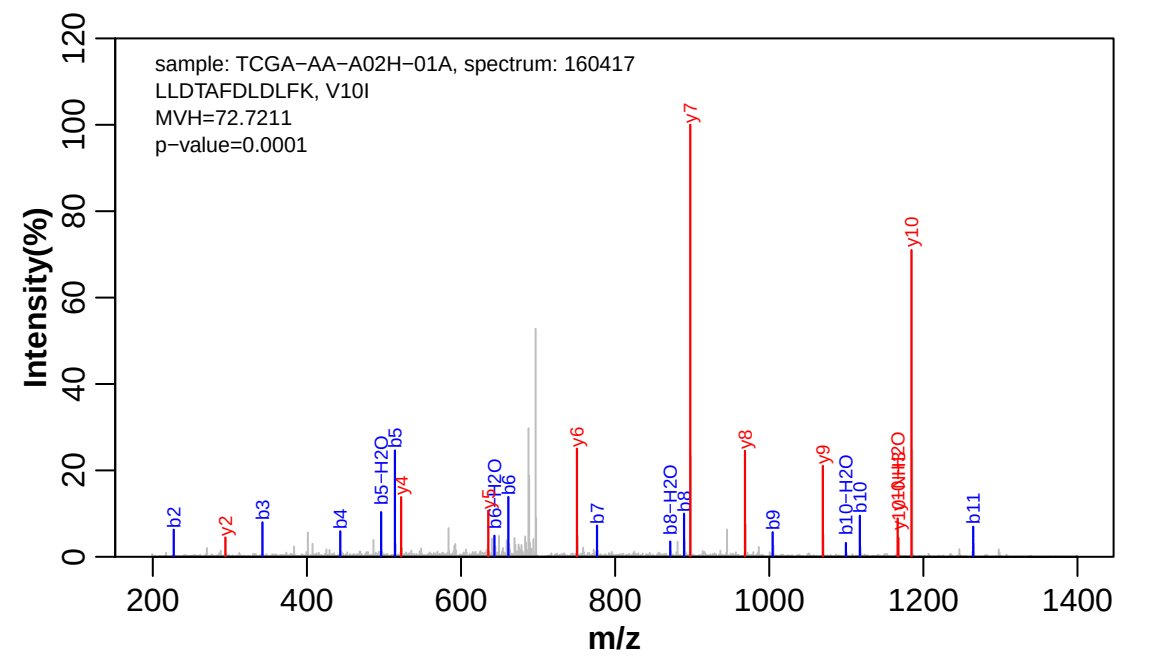

sample: TCGA−AA−A02H−01A, spectrum: 156608
LDSTDFTSTLK, G8S
MVH=49.9366
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
b7−H2O
b7
y7
y8
y9
y9−H2O
b10−H2O
y10

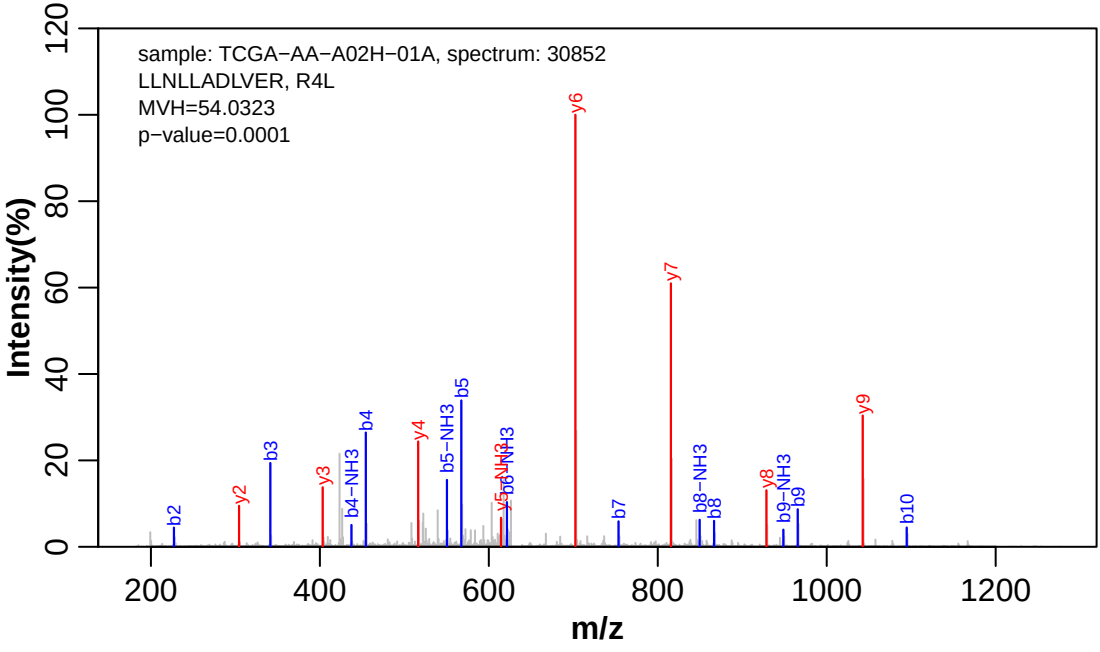

sample: TCGA−AA−A02H−01A, spectrum: 7579
LEGLLEGLGLR, G6E
MVH=59.8084
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
y3
b4−H2O
b4
y4−H2O
y4
y5−NH3
y5
b5
y6−NH3
y6−H2O
y6
b6
b7
y7
b8−H2O
b8
y8
b9
y9
b10
y10−H2O

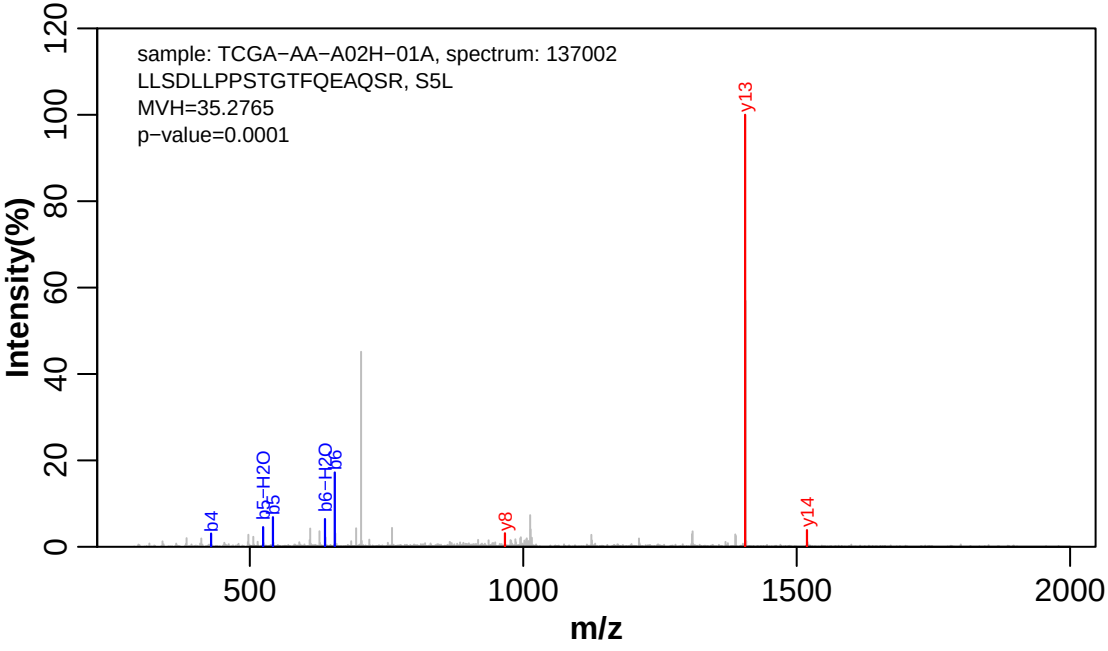

sample: TCGA−AA−A02H−01A, spectrum: 39942
LFEEDPAVGALVLTGGDK, T1I
MVH=83.1747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
y7
b5
y6
b5−H2O
y5
b4
y4
b3
b7
b7−H2O
b8−H2O
b9
b10
y12
b11
b12
y14
b13
y15
b14
y16

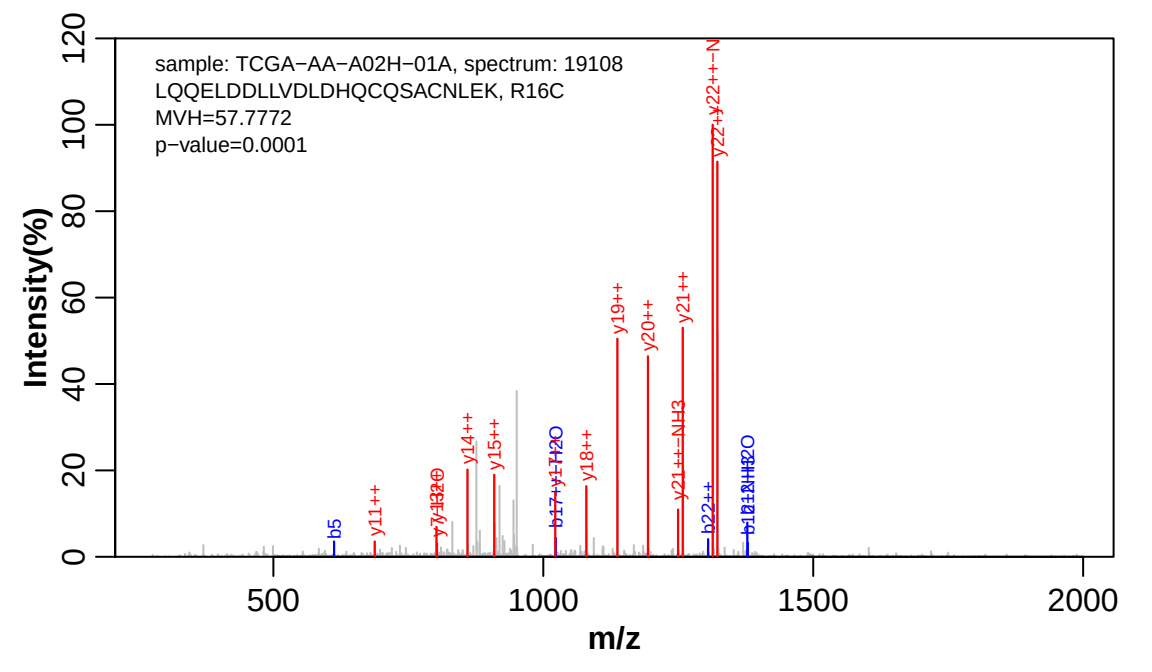

sample: TCGA−AA−A02H−01A, spectrum: 80996
LHVLVEPDHFK, Q2H
MVH=60.3090
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y6++−H2
y5++
y7++
b4
y6++
y5+++
b4++
y6+++−H2O
b5++
y7+++
y5++−H2O
y5++−NH3
b3
b6++
y10+++
b5
y5

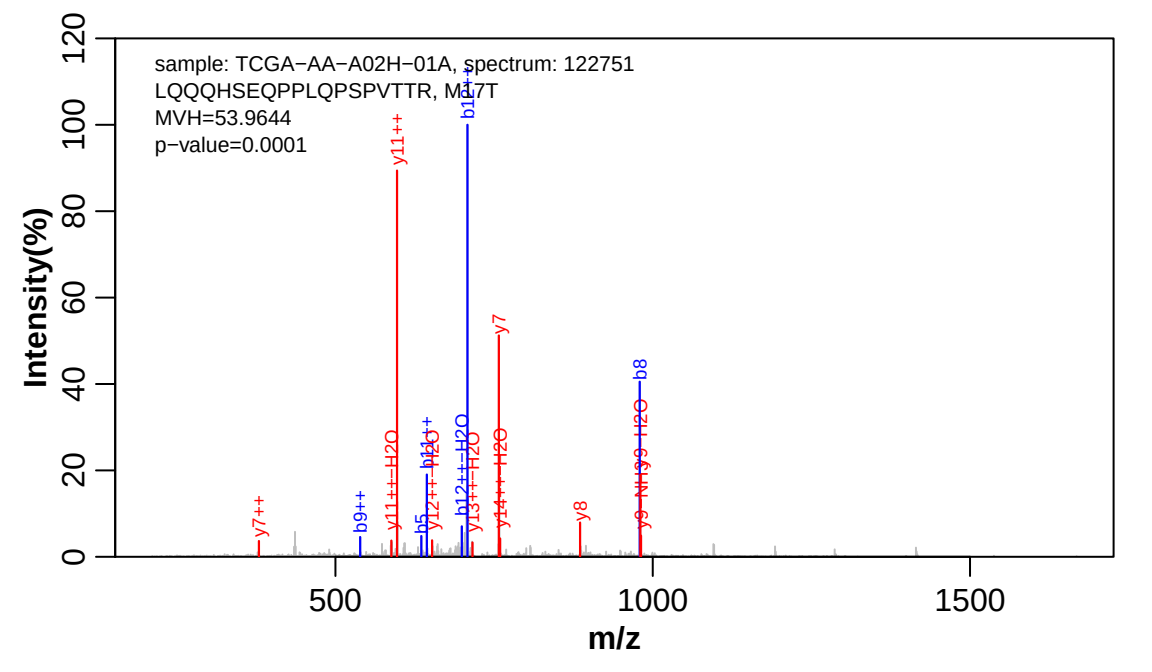

sample: TCGA−AA−A02H−01A, spectrum: 7915
LLDLFYPGDQQSVTFGLK, T17I
MVH=40.6698
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y12
y5
b5
b6
y11
y13
b13
y14

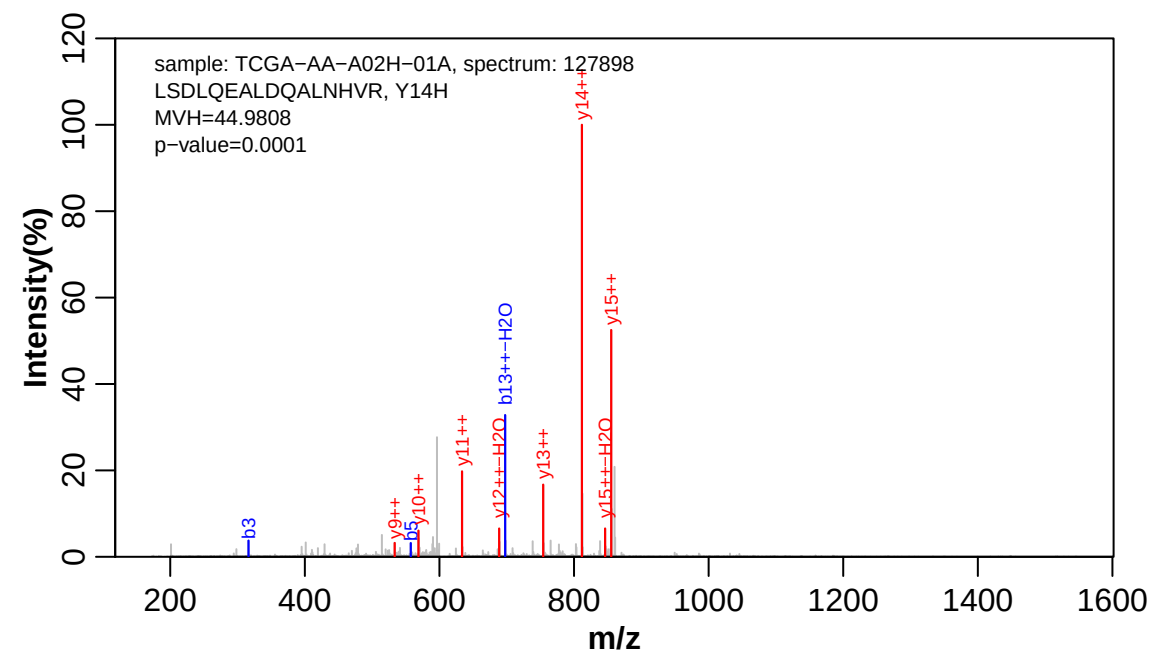

sample: TCGA−AA−A02H−01A, spectrum: 160417
LLDTAFDLDLFK, V10I
MVH=72.7211
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
b4
b5−H2O
b5
y4
y5
b6−H2O
b6
y6
b7
b8−H2O
b8
y7
y8
b9
y9
b10−H2O
b10
y10
b11

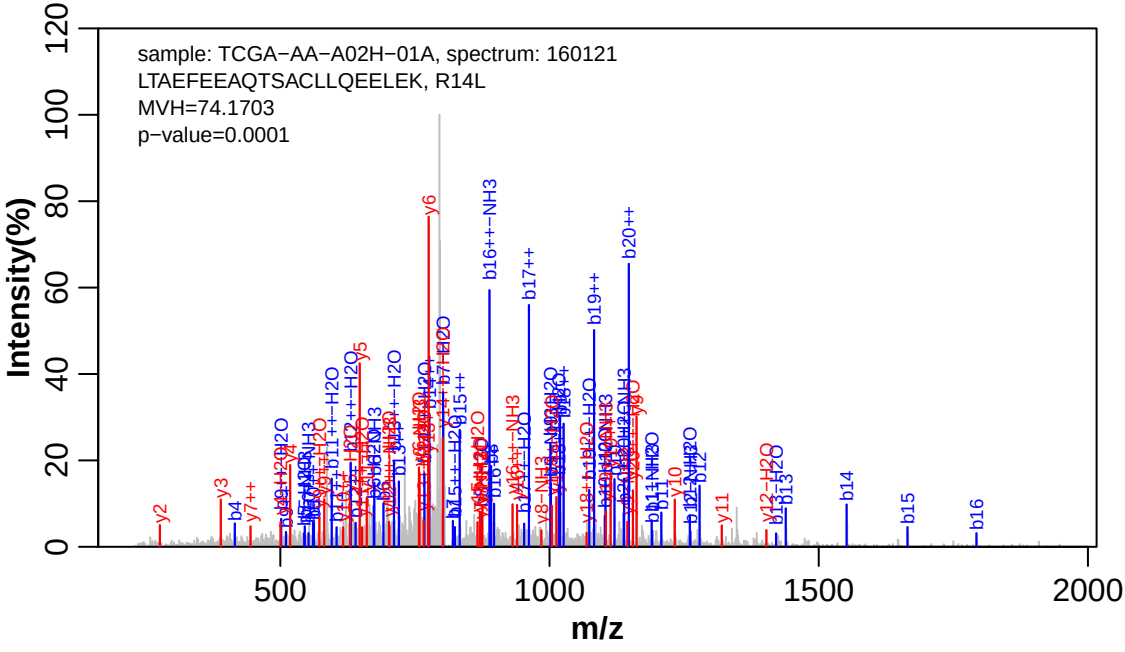

sample: TCGA−AA−A02H−01A, spectrum: 30852
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

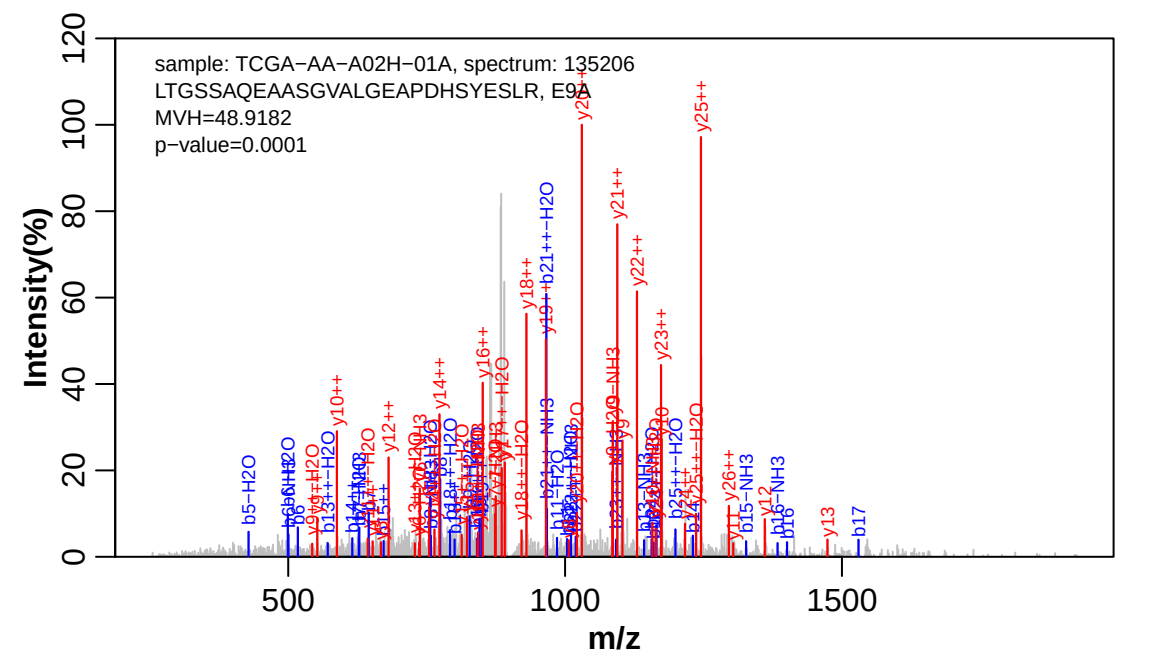

sample: TCGA−AA−A02H−01A, spectrum: 137002
LLSDLLPPSTGTFQEAQSR, S5L
MVH=35.2765
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4
b5−H2O
b5
b6−H2O
b6
y8
y13
y14

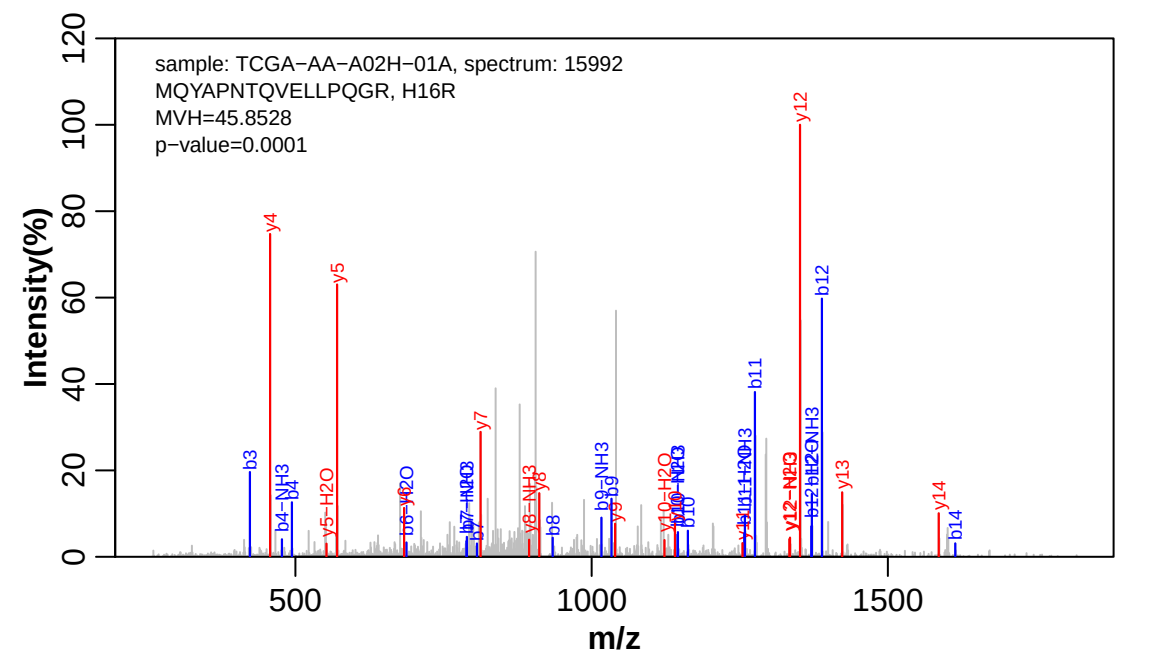

sample: TCGA−AA−A02H−01A, spectrum: 19108
LQQELDDLLVDLDHQCQSACNLEK, R16C
MVH=57.7772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y11++
y14++
y15++
y18++
y19++
y20++
y21++
y21++−NH3
y22++
y22++−N
b22++

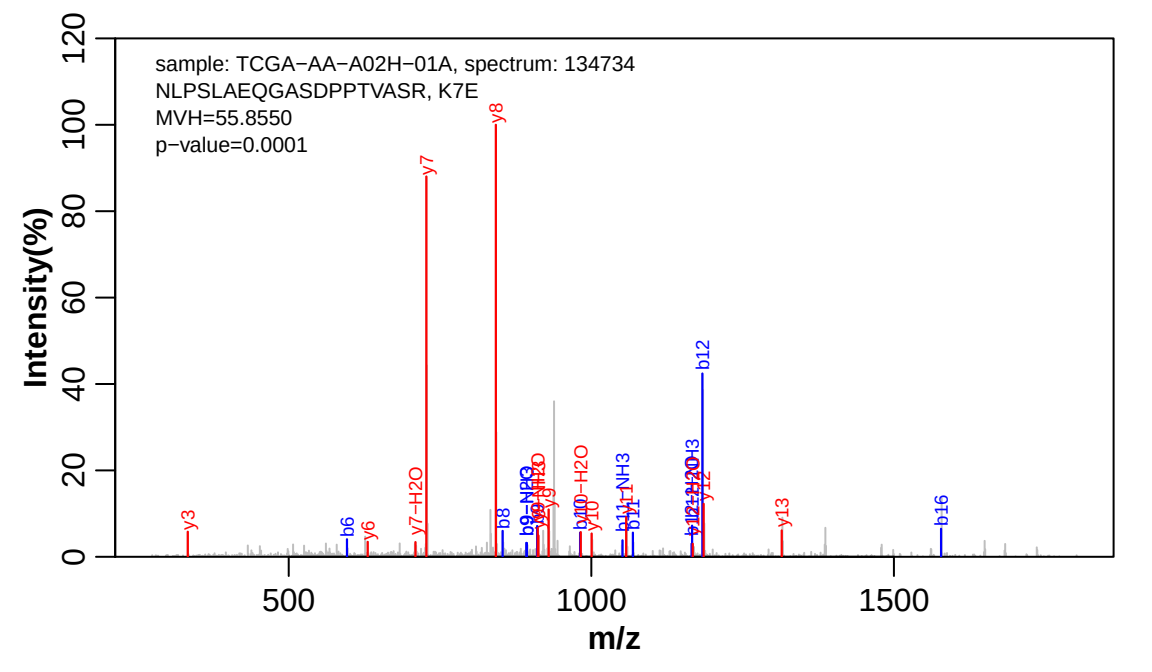

sample: TCGA−AA−A02H−01A, spectrum: 122751
LQQQHSEQPPLQPSPVTTR, M17T
MVH=53.9644
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b9++
y11++−H2O
b5
b11++
y12++−H2O
b12++−H2O
b16++
y13++−H2O
y11++
y14++−H2O
y7
y8
y9−NH3−H2O
b8

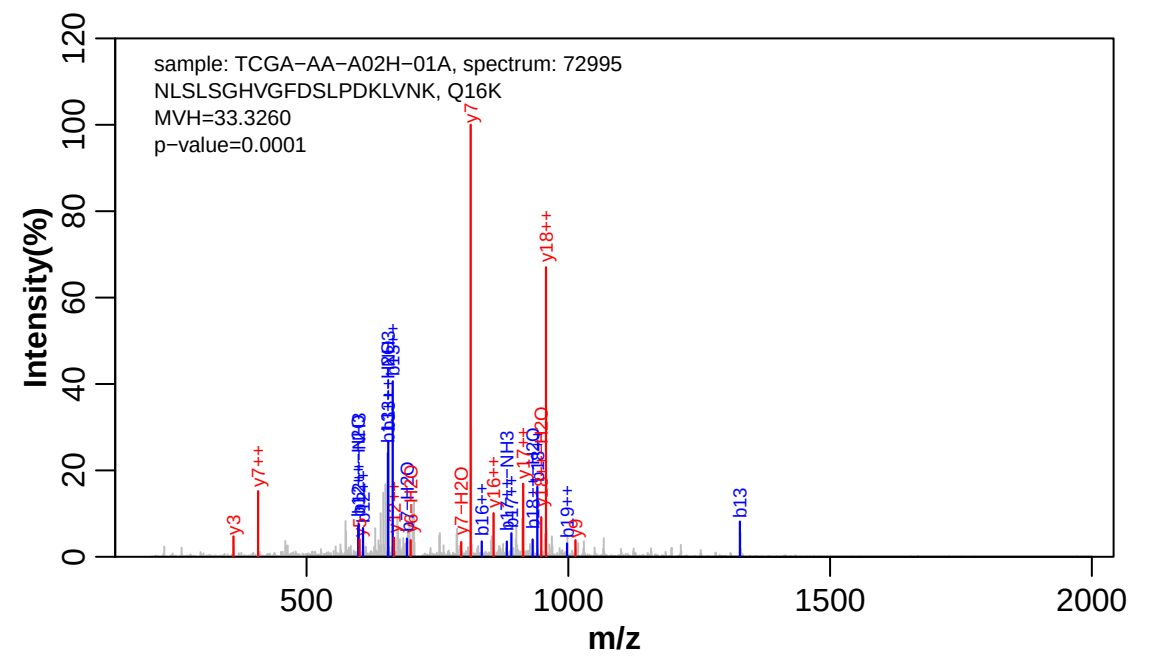

sample: TCGA−AA−A02H−01A, spectrum: 127898
LSDLQEALDQALNHVR, Y14H
MVH=44.9808
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++
y15++−H2O
y15++

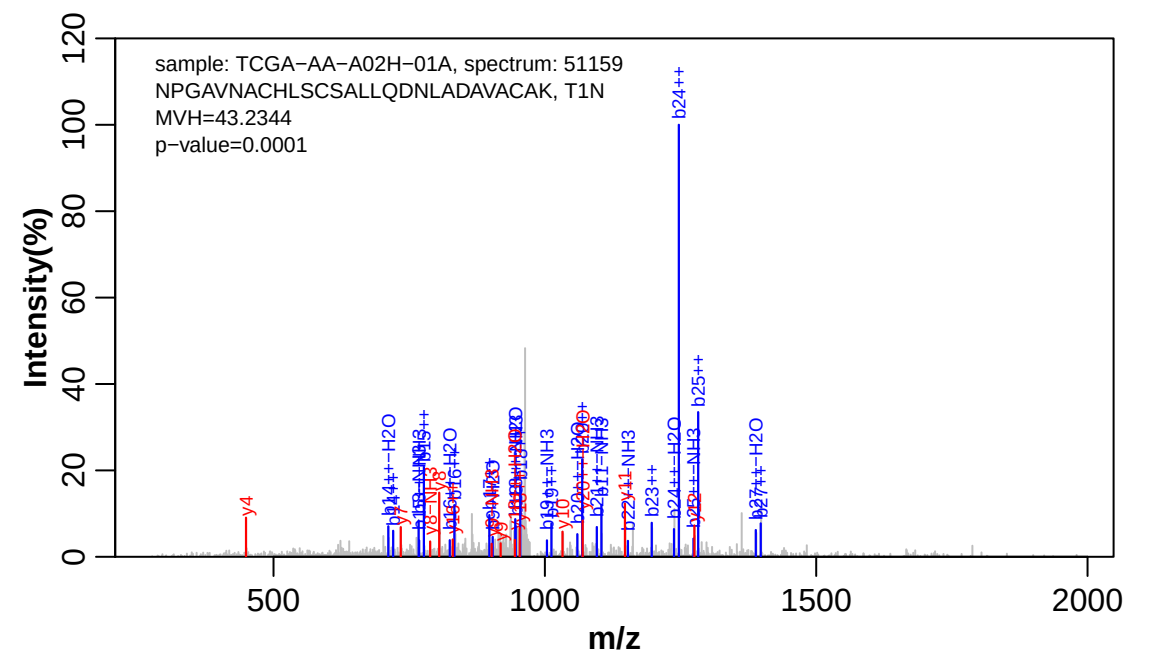

sample: TCGA−AA−A02H−01A, spectrum: 160121
LTAEFEEAQTSACLLQEELEK, R14L
MVH=74.1703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
b4
y7++
y6
y5
b16++−NH3
b17++
b20++
b19++
b15
b16
b14
y11
b13
b12
y10

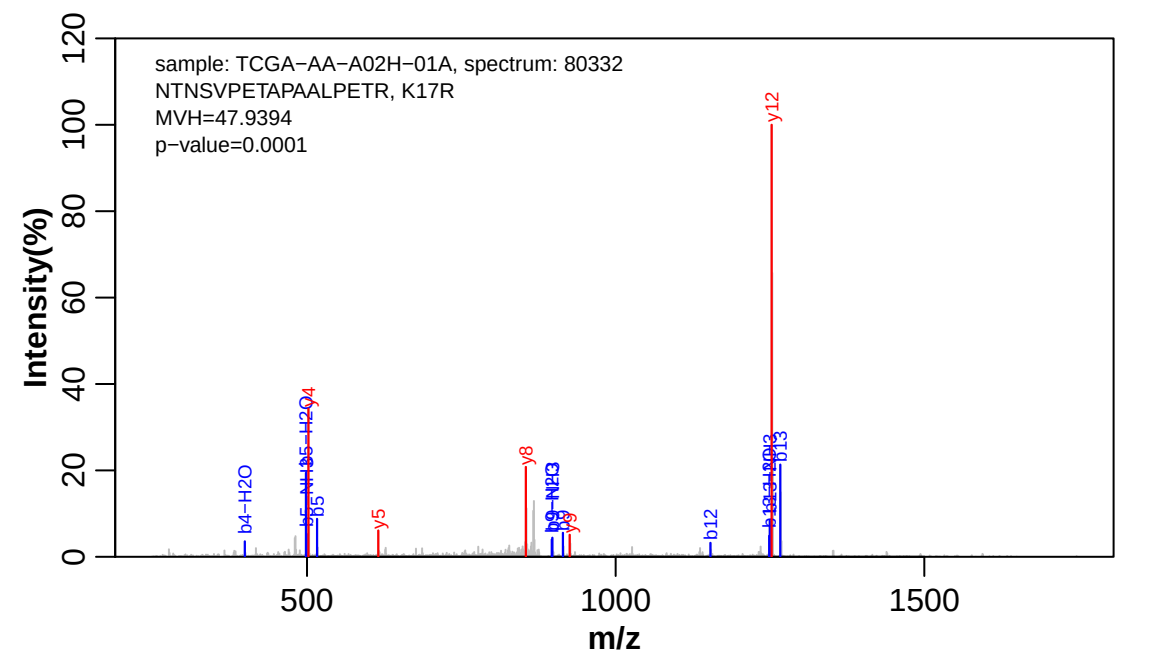

sample: TCGA−AA−A02H−01A, spectrum: 135206
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=48.9182
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
y10++
y12++
y14++
y16++
y18++
y19++−H2O
y21++
y22++
y23++
y25++
y26++
b15−NH3
b16−NH3
b17
y13

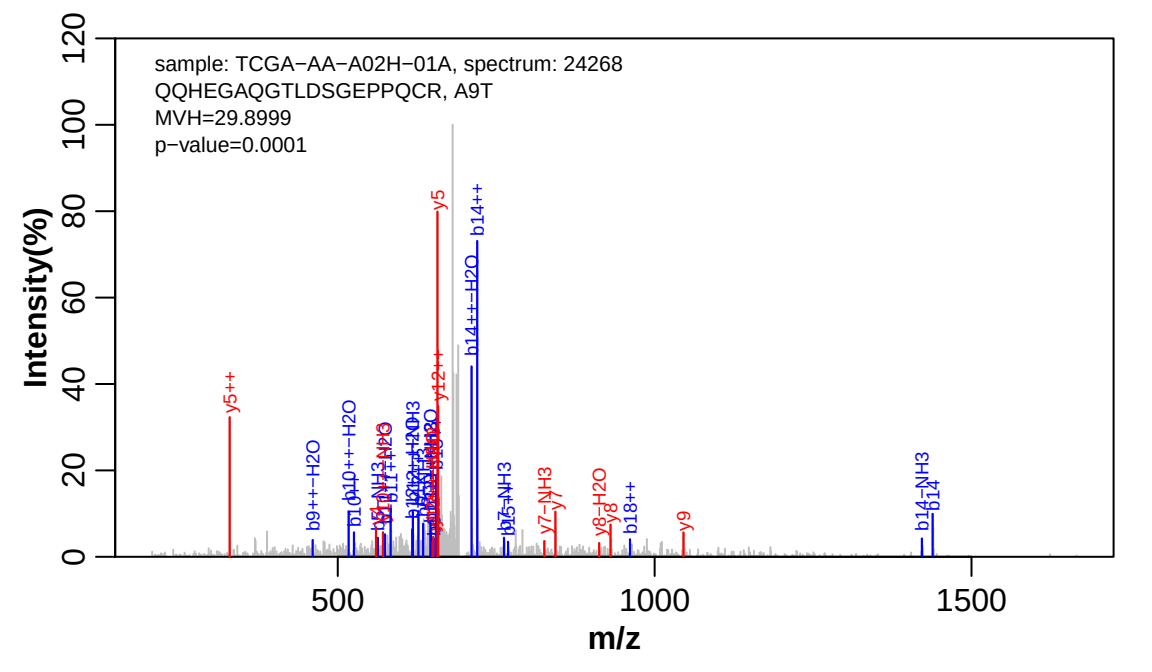

sample: TCGA−AA−A02H−01A, spectrum: 15992
MQYAPNTQVELLPQGR, H16R
MVH=45.8528
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
b4−NH3
y5
y5−H2O
b6−H2O
y7
b7
b7−NH3
b7−H2O
y8
y8−NH3
b8
b9−NH3
y9
b9
y10−H2O
b10
b10−NH3
b10−H2O
y11
y11−NH3
y11−H2O
b11
y12
y12−NH3
b12
b12−H2O
b12−NH3
y13
y14
b14

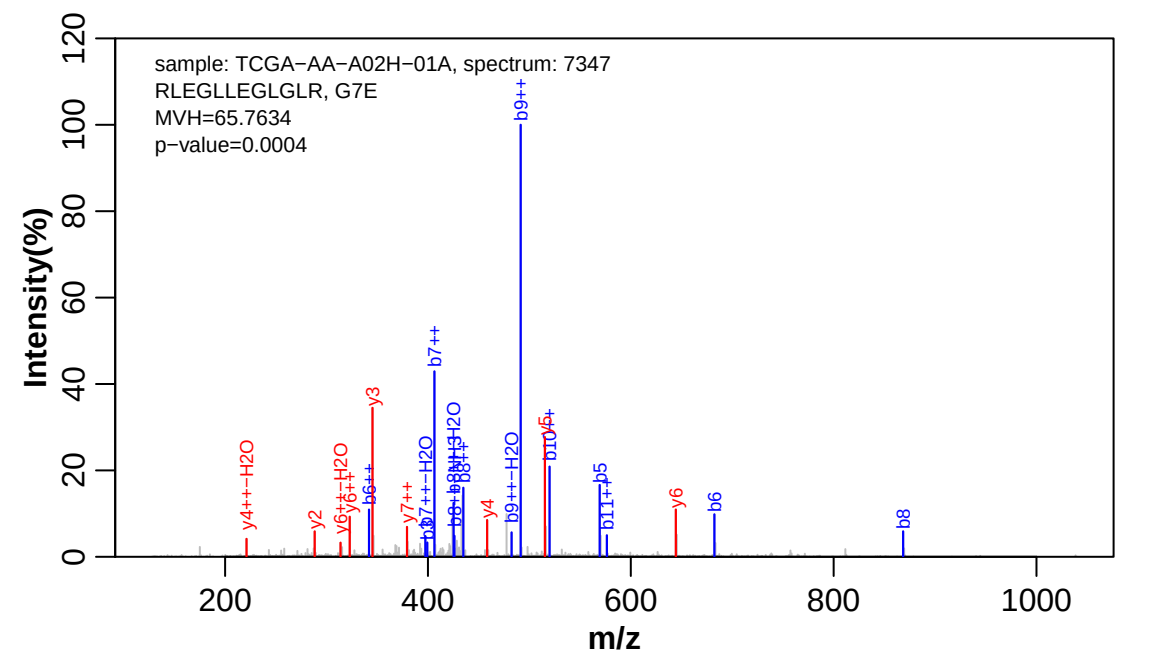

sample: TCGA−AA−A02H−01A, spectrum: 134734
NLPSLAEQGASDPPTVASR, K7E
MVH=55.8550
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b6
y6
y7−H2O
y7
b8
y8
y10−H2O
b11−NH3
b12
y13
b16

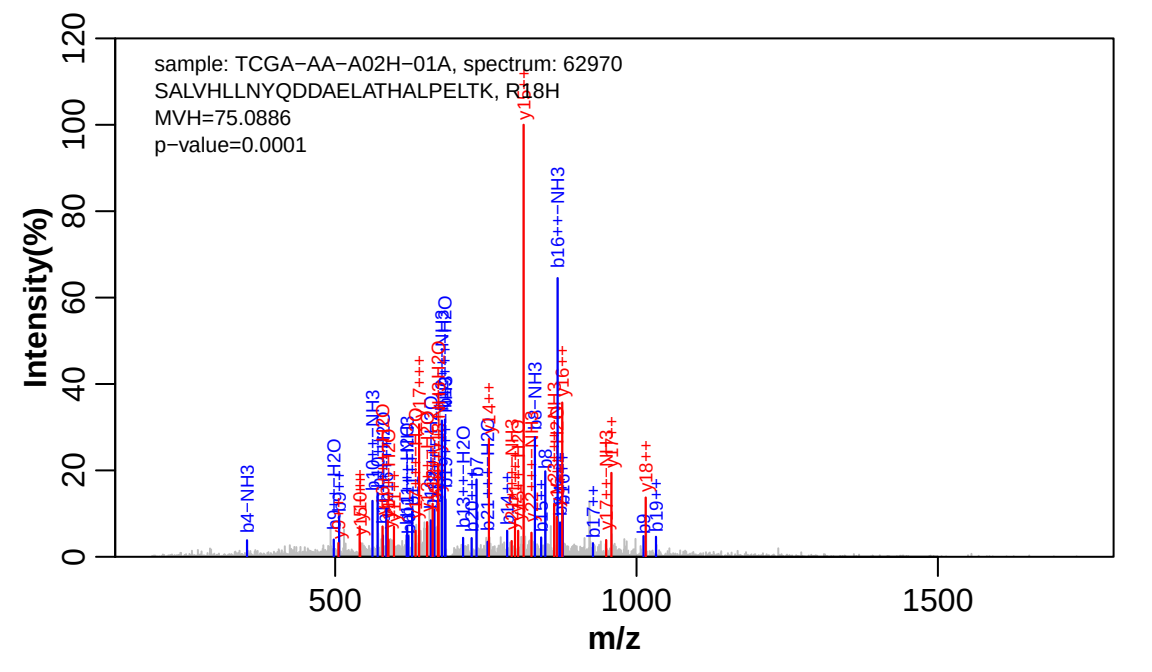

sample: TCGA−AA−A02H−01A, spectrum: 72995
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=33.3260
p−value=0.0001
Intensity(%)
m/z
y7
y18++
y7++
y3
y7−H2O
b16++
b17++−NH3
b19++
b13
0
20
40
60
80
100
120
500
1000
1500
2000

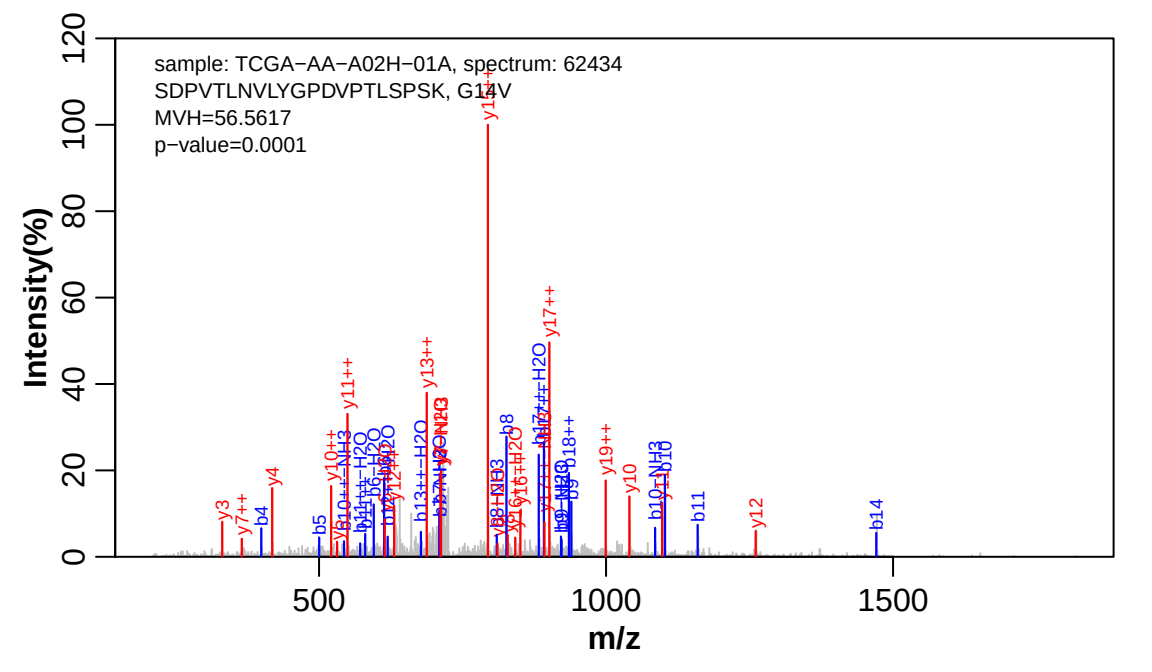

sample: TCGA−AA−A02H−01A, spectrum: 51159
NPGAVNACHLSCSALLQDNLADAVACAK, T1N
MVH=43.2344
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b25++
y4
b24++−H2O
b24++−NH3
b23++
b22++−NH3
b27++−H2O

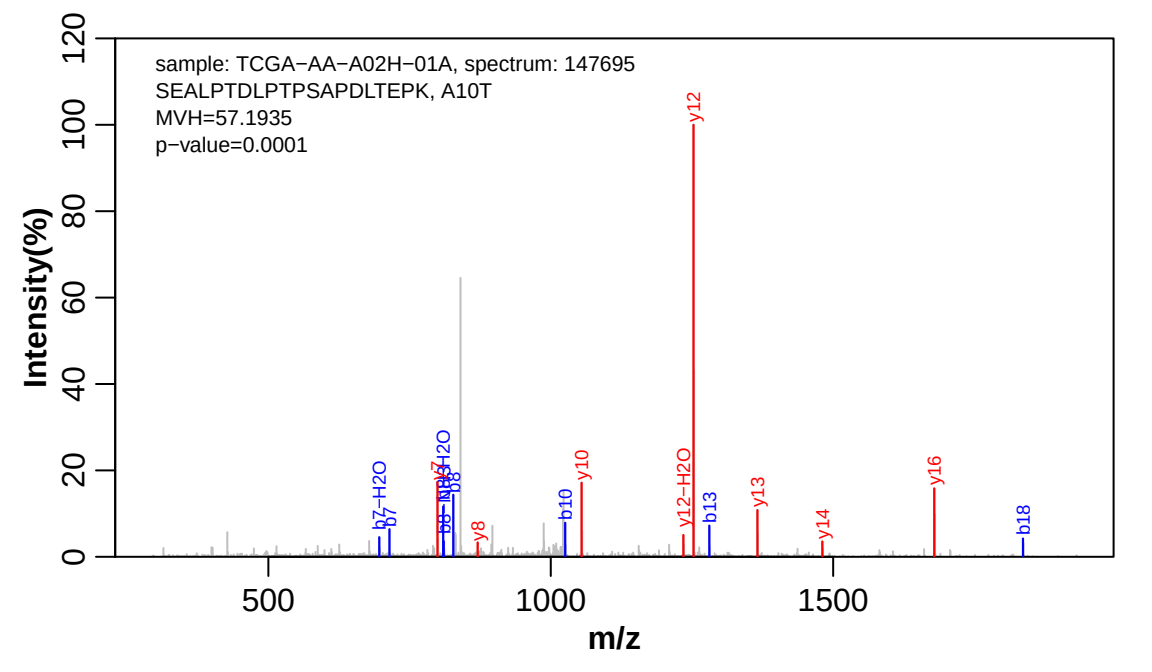

sample: TCGA−AA−A02H−01A, spectrum: 80332
NTNSVPETAPAALPETR, K17R
MVH=47.9394
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y4
y5
b4−H2O
b5
b12
b13

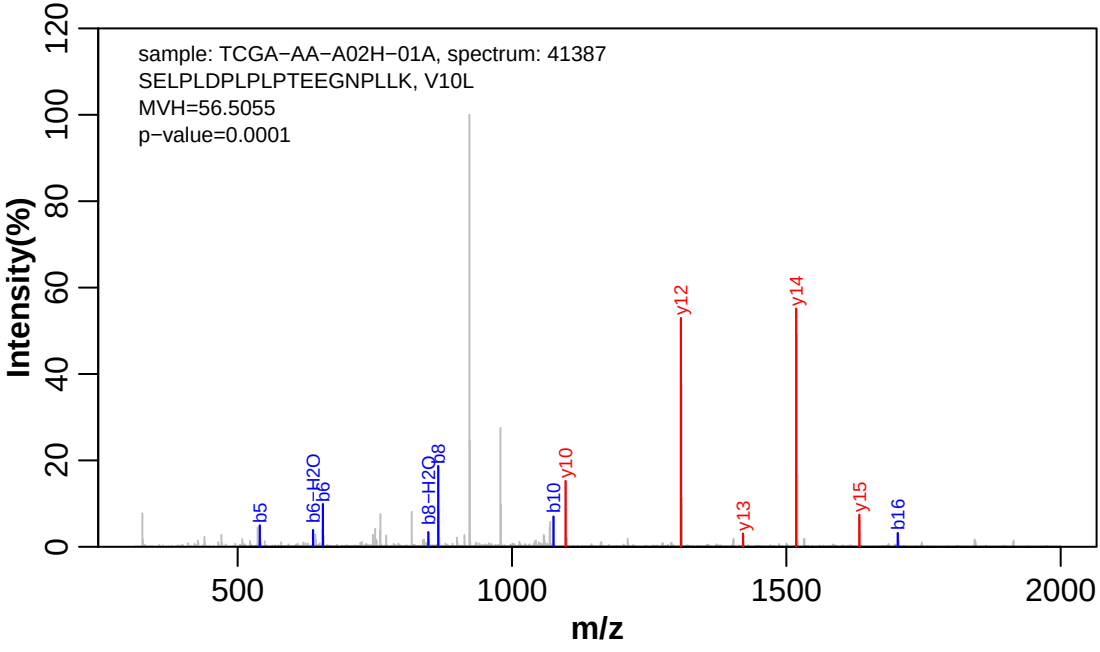

sample: TCGA−AA−A02H−01A, spectrum: 24268
QQHEGAQGTLDSGEPPQCR, A9T
MVH=29.8999
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5++
b9++−H2O
b10++−H2O
y5
b14++
b14++−H2O
y12++
y7−NH3
y8−H2O
y8
b18++
y9
b14−NH3
b14

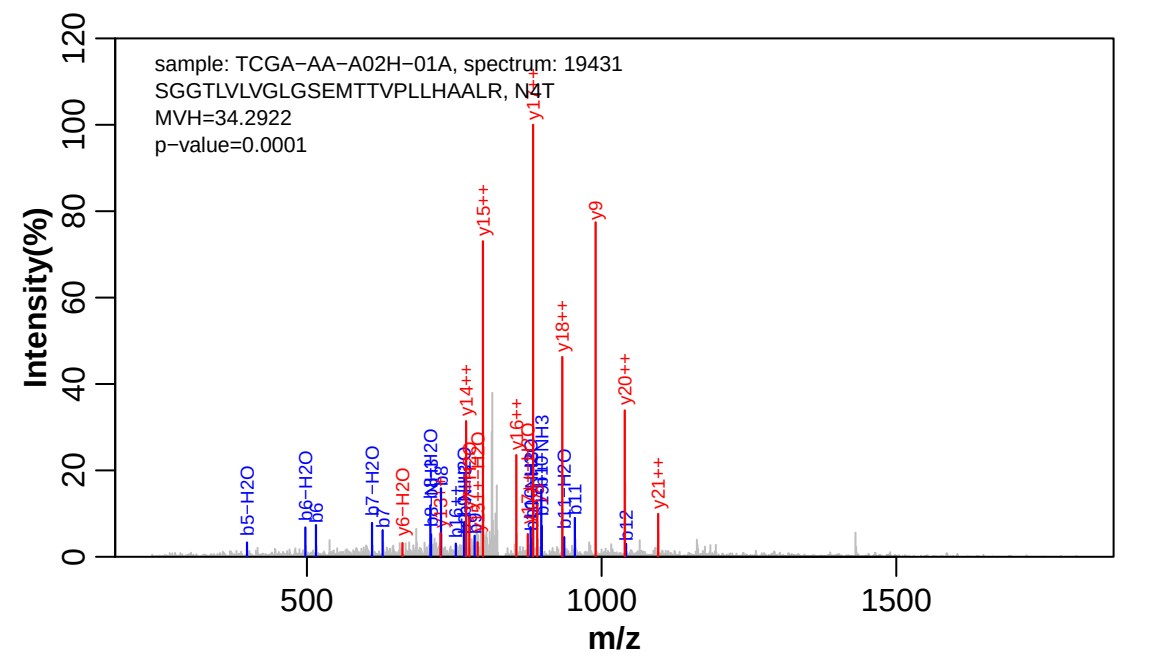

sample: TCGA−AA−A02H−01A, spectrum: 7347
RLEGLLEGLGLR, G7E
MVH=65.7634
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y4++−H2O
y2
y6++−H2O
y6++
b6++
y3
y7++
b7++−H2O
b7++
b8++−H2O
b8++
y4
b9++−H2O
b9++
b10++
b11++
b5
y6
b6
b8

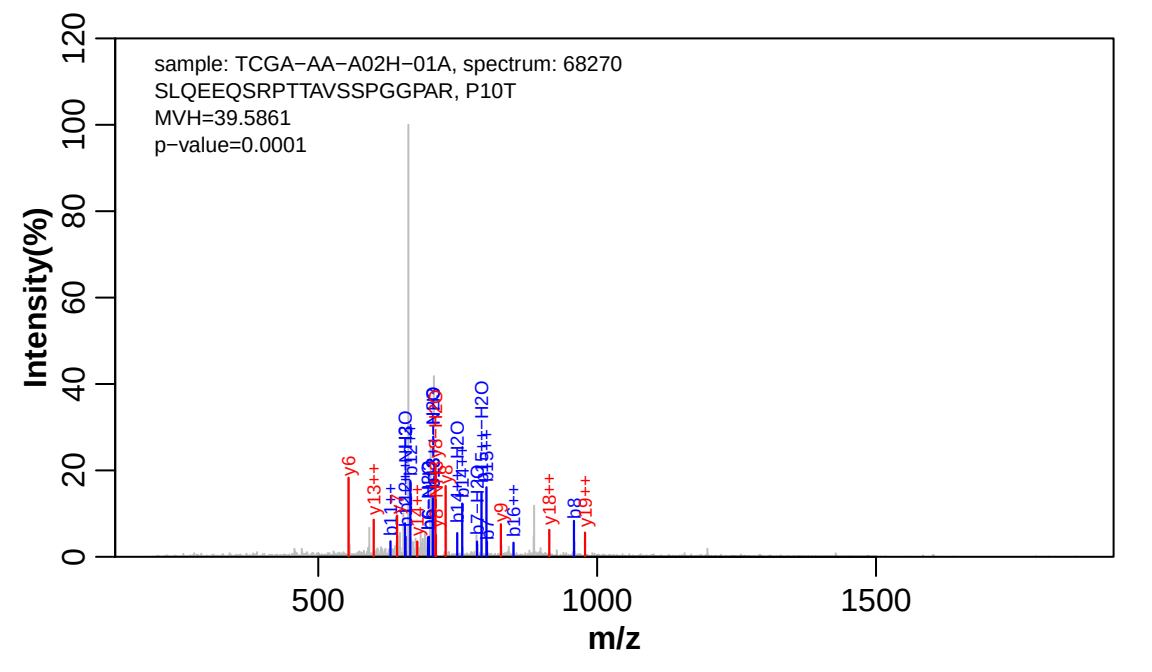

sample: TCGA−AA−A02H−01A, spectrum: 62970
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=75.0886
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−NH3
y9++−H2O
y10++
b10++−NH3
y10++−NH3
y17+++
b13++−H2O
b21++−H2O
y24++
b15++−NH3
b16++−NH3
y16++
b17++
y17++−NH3
b9
y18++
b19++

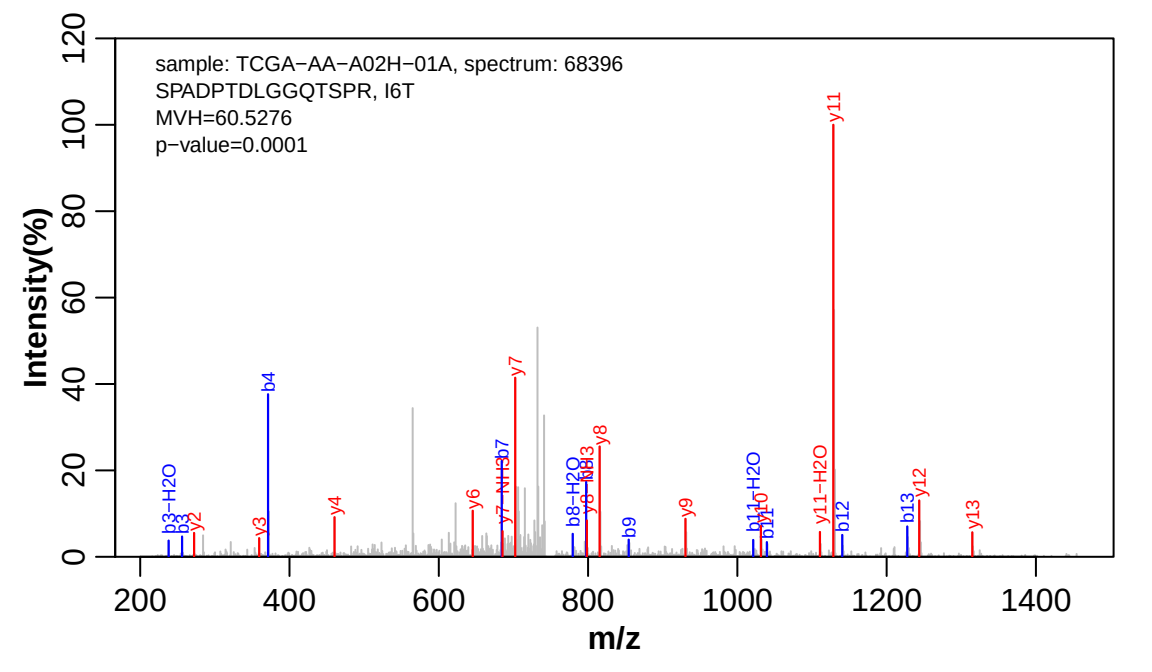

sample: TCGA−AA−A02H−01A, spectrum: 62434
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=56.5617
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y17++
y13++
y11++
y10++
y19++
y10
y12
b14
b11
b10−NH3
y7++
y4
b4
b5
y3

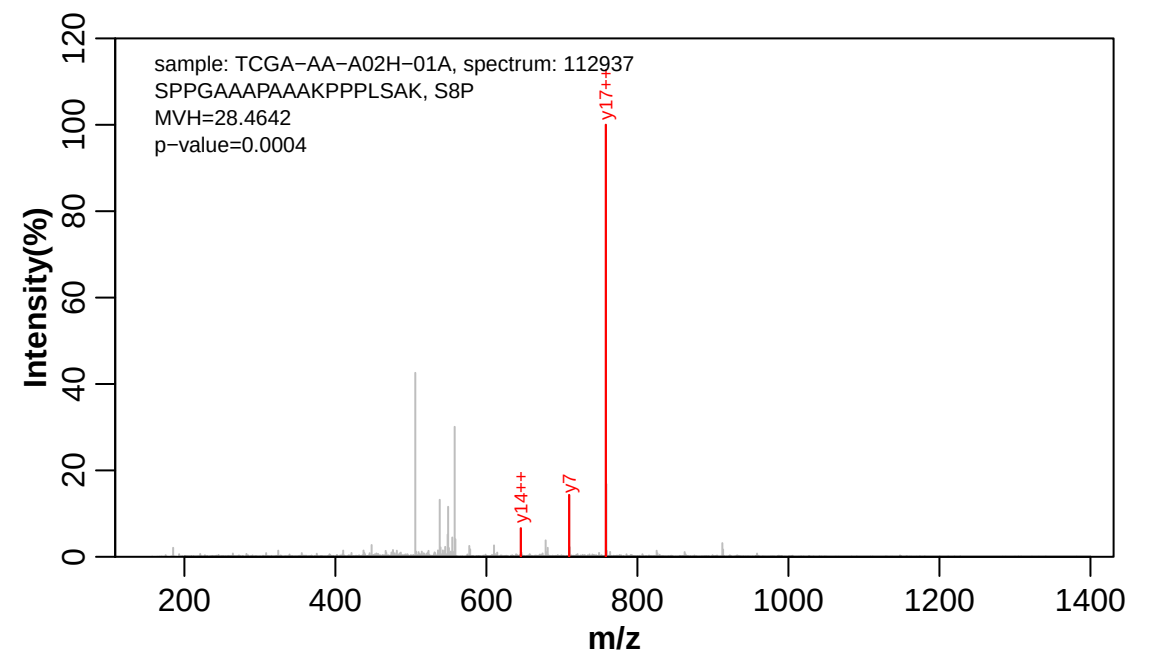

sample: TCGA−AA−A02H−01A, spectrum: 147695
SEALPTDLPTPSAPDLTEPK, A10T
MVH=57.1935
p−value=0.0001
Intensity(%)
m/z
y12
y10
y12−H2O
b13
y13
y14
y16
b18
b10
y8
b7
b7−H2O

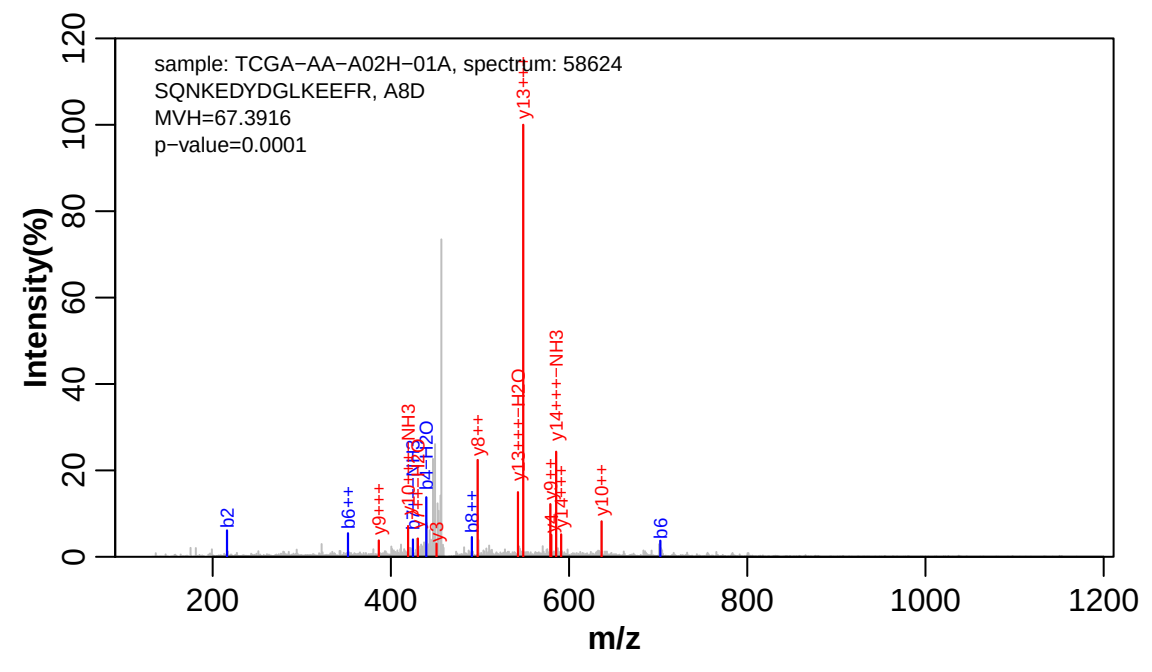

sample: TCGA−AA−A02H−01A, spectrum: 41387
SELPLDPLPLPTEEGNPLLK, V10L
MVH=56.5055
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6−H2O
b6
b8−H2O
b8
b10
y10
y12
y13
y14
y15
b16

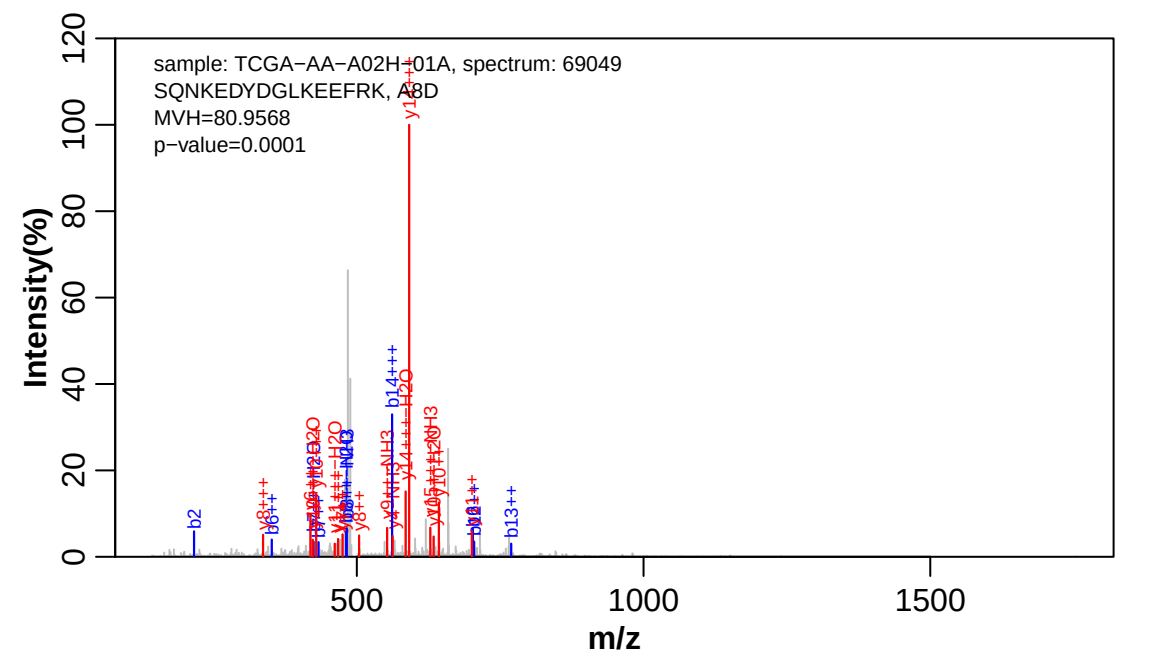

sample: TCGA−AA−A02H−01A, spectrum: 19431
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=34.2922
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y15++
y9
y18++
y14++
y16++
y20++
y21++
b5−H2O
b6−H2O
b6
b7−H2O
b7
y6−H2O
b11+−H2O
b11
b12

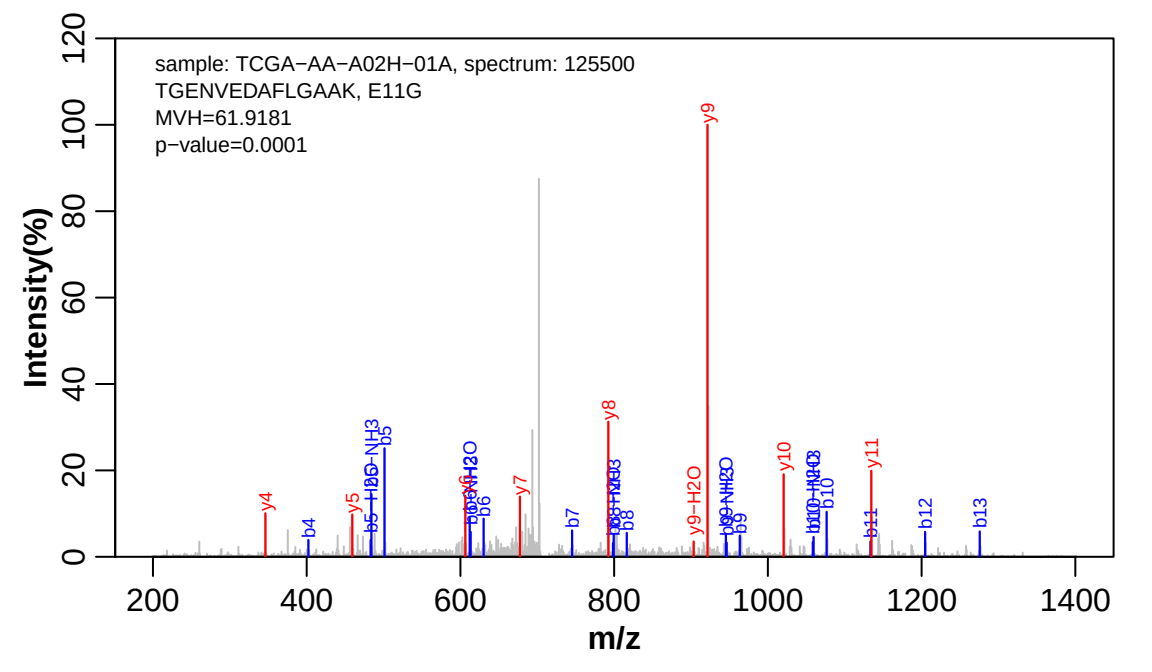

sample: TCGA−AA−A02H−01A, spectrum: 68270
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=39.5861
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6
y13++
b11++
y12++
b12++
y14++
b13++
y15++
b14++
y16++
b15++
y17++
b16++
y18++
b8
y19++
y9
b7−H2O
b14++H2O
y15++−H2O
y6−NH3
y6−H2O
b12++−NH3
b12++−H2O

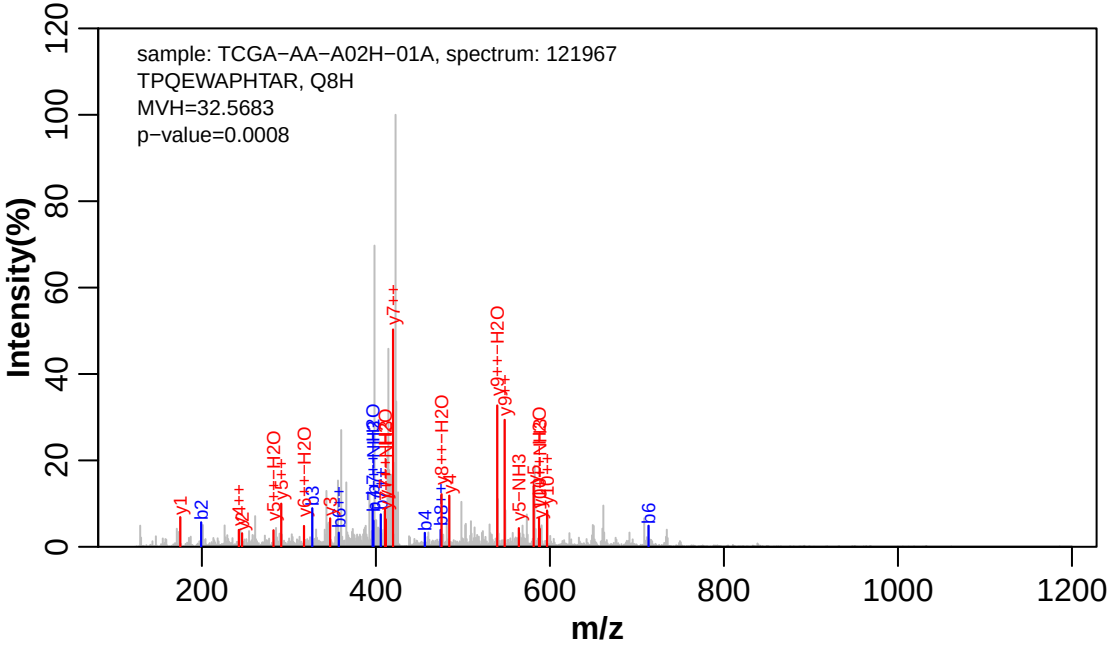

sample: TCGA−AA−A02H−01A, spectrum: 68396
SPADPTDLGGQTSPR, I6T
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y2
y3
b4
y4
y6
y7
y7−NH3
b7
y7
b8−H2O
y8
b8
b9
y9
b11−H2O
b11
b10
y11−H2O
y11
b12
b13
y12
y13

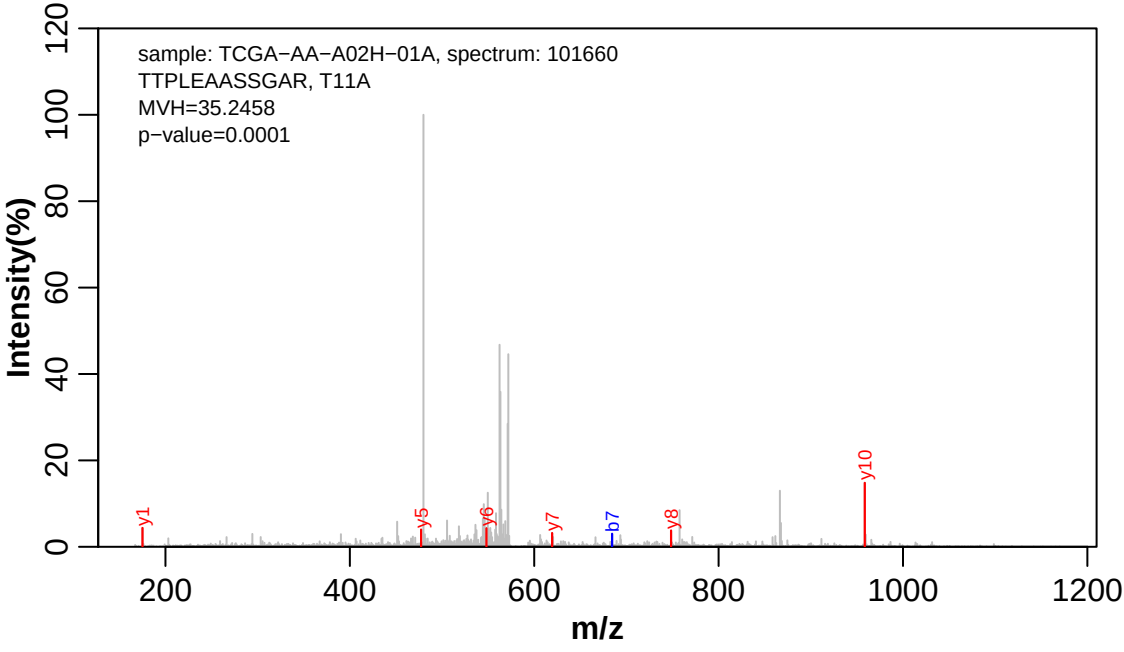

sample: TCGA−AA−A02H−01A, spectrum: 112937
SPPGAAAPAAAKPPPLSAK, S8P
MVH=28.4642
p−value=0.0004
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

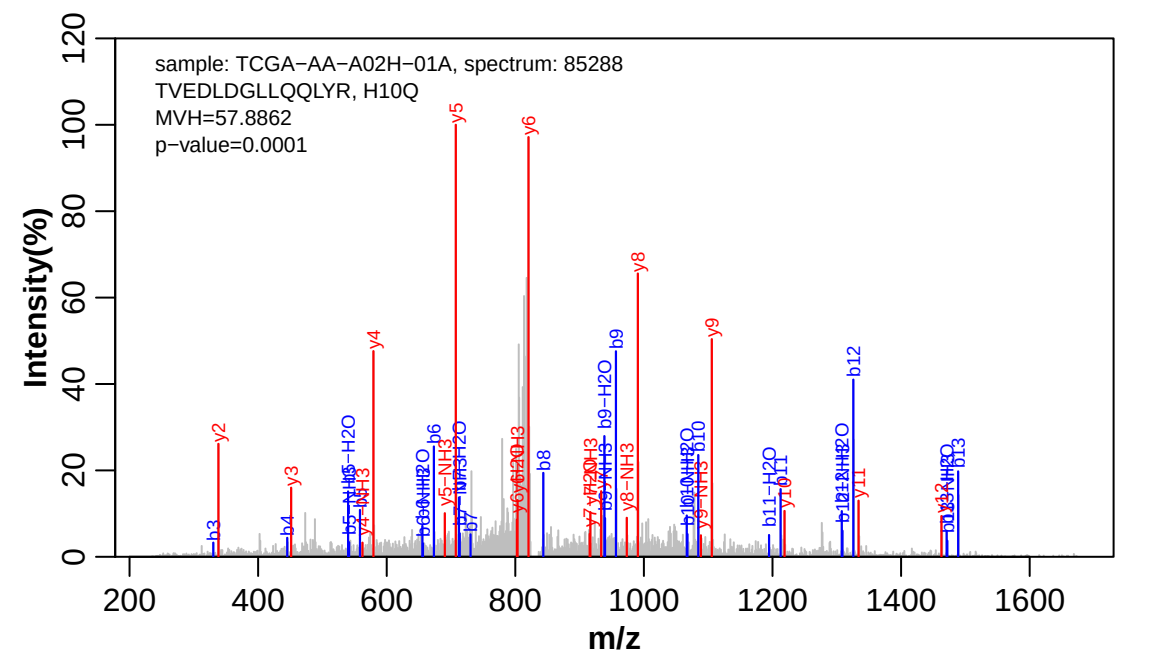

sample: TCGA−AA−A02H−01A, spectrum: 58624
SQNKEDYDGLKEEFR, A8D
MVH=67.3916
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b6++
y9+++
y7++−NH3
y7++
b4−H2O
y3
b8++
y8++
y13+++−H2O
y13++
y14+++−NH3
y14+++
y10++
b6

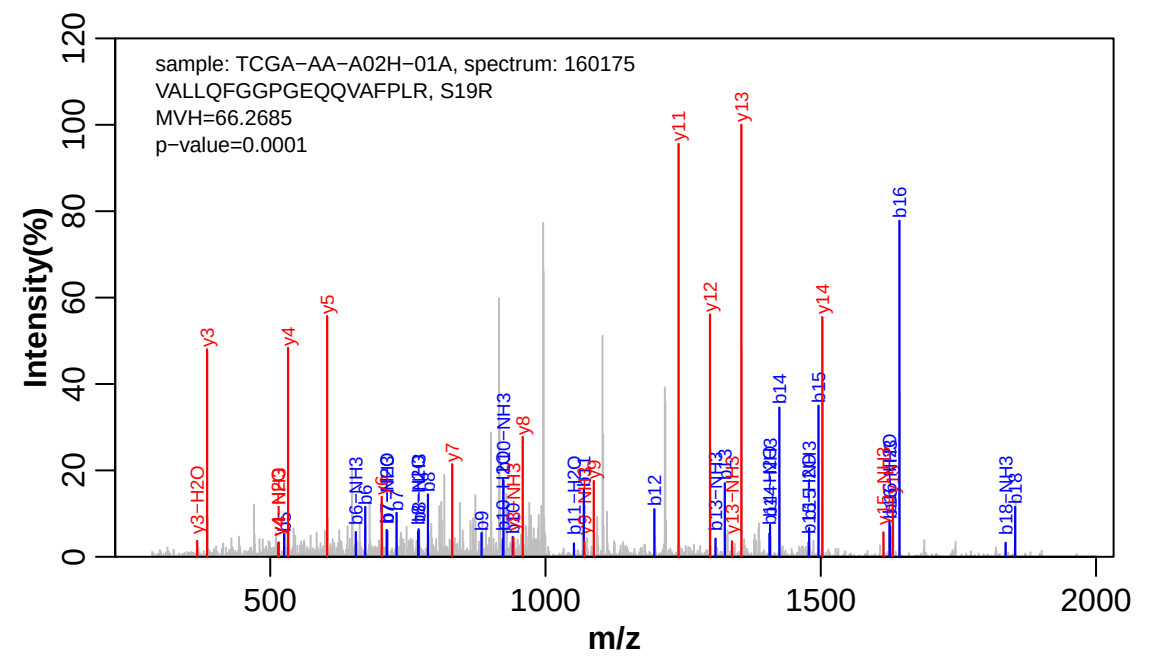

sample: TCGA−AA−A02H−01A, spectrum: 69049
SQNKEDYDGLKEEFRK, A8D
MVH=80.9568
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b2
y8+++
b6++
y8++
b14+++
y14++++−H2O
y14++++−NH3
y10++−NH3
y10++−H2O
y10++−H2O−NH3
b11++
b13++
y16+++

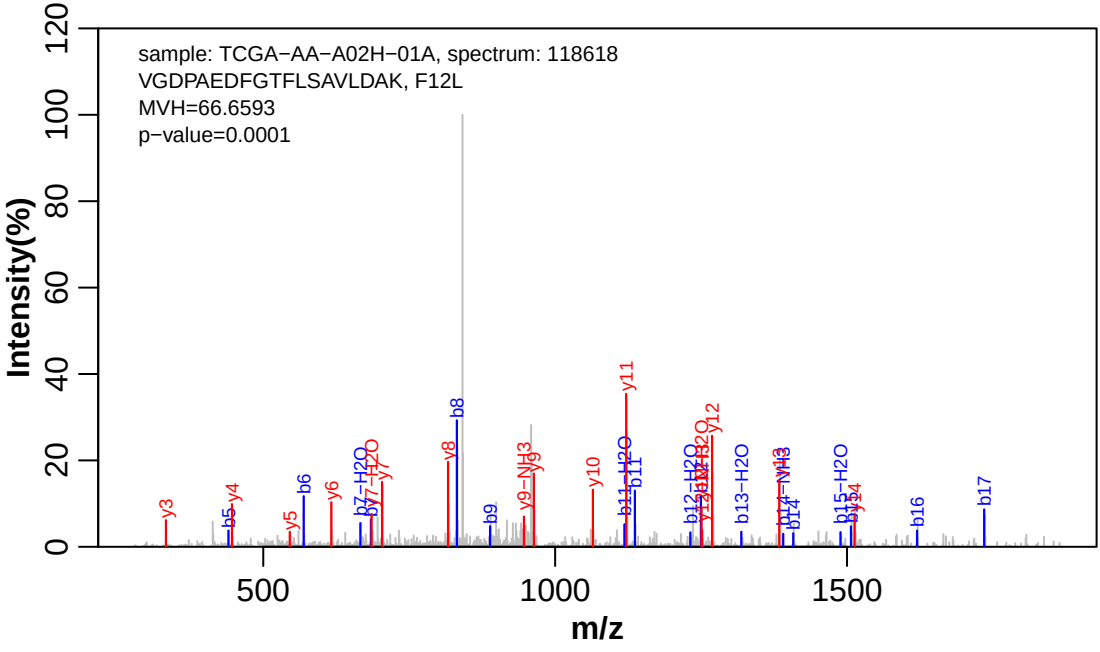

sample: TCGA−AA−A02H−01A, spectrum: 125500
TGENVEDAFLGAAK, E11G
MVH=61.9181
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b4
y5
b5
b5−NH3
b5−H2O
y6
b6
y7
b7
y8
b8
y9
y9−H2O
y9−NH3
b9
y10
b10
y11
b11
b12
b13

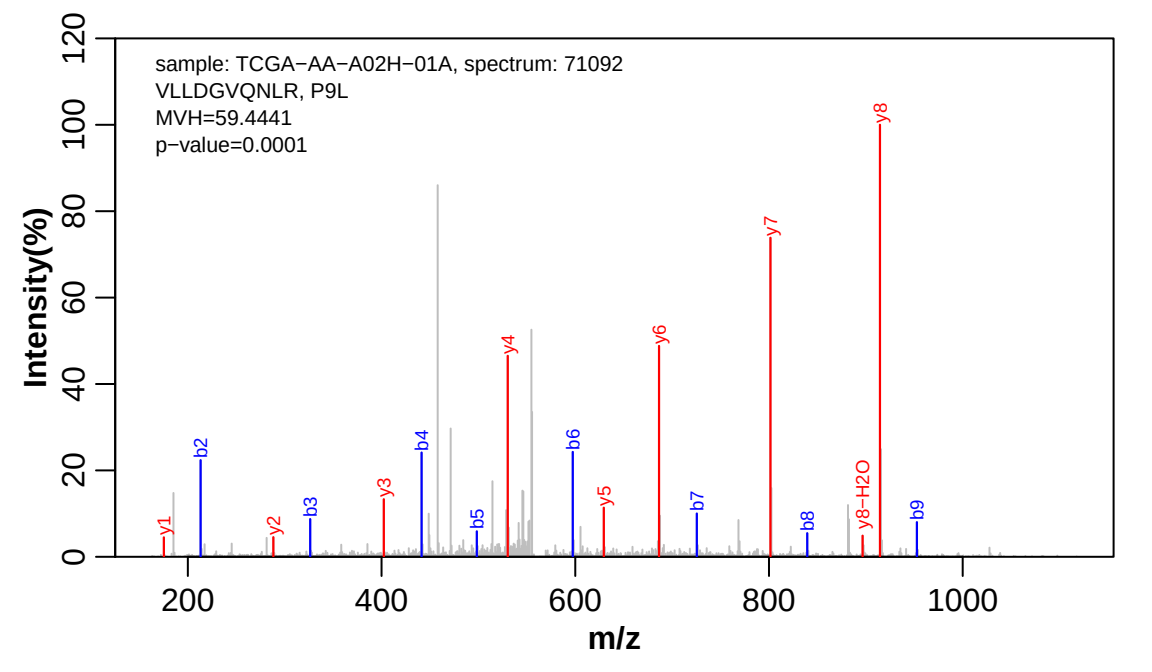

sample: TCGA−AA−A02H−01A, spectrum: 121967
TPQEWAPHTAR, Q8H
MVH=32.5683
p−value=0.0008
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
y2++
y5++H2O
y6++H2O
b3
y3
b6++
y7++
b4
b8++
y8++H2O
y9++H2O
y5−NH3
b6

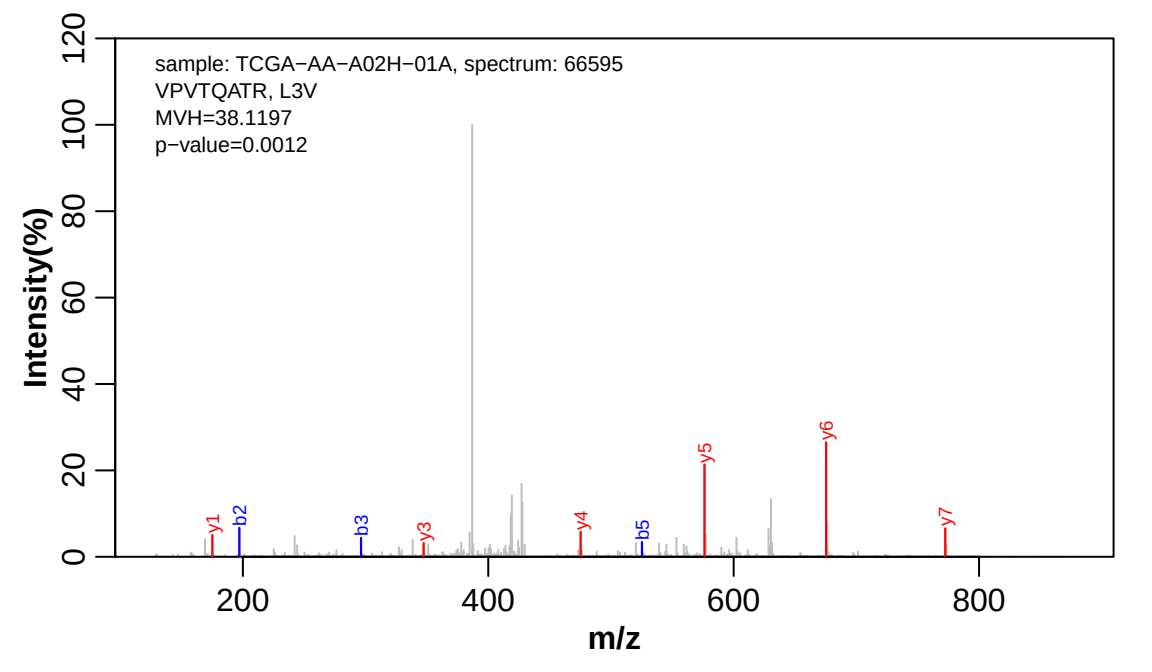

sample: TCGA−AA−A02H−01A, spectrum: 101660
TTPLEAASSGAR, T11A
MVH=35.2458
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
y5
y6
y7
b7
y8
y10

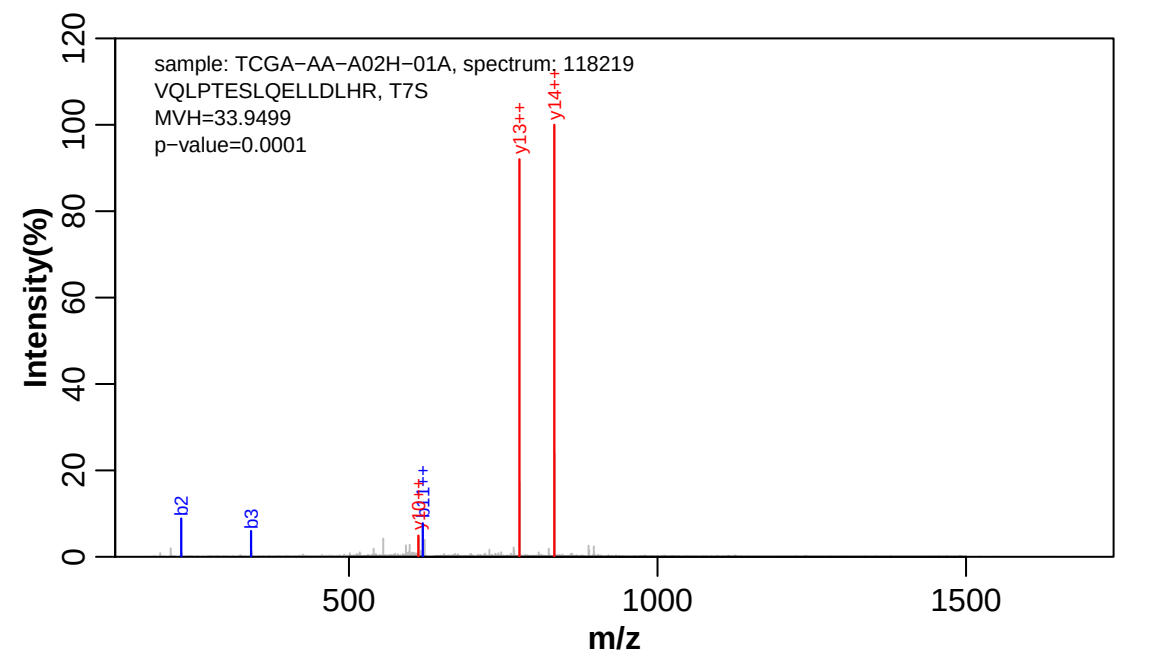

sample: TCGA−AA−A02H−01A, spectrum: 85288
TVEDLDGLLQQLYR, H10Q
MVH=57.8862
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
y4
y2
y9
b12
b9
b8
b3
b4
y3
b13
y11
y10
b11−H2O
b9−H2O
y8−NH3
b9−NH3
y9−NH3
y5−NH3
y6−NH3
b6
b10

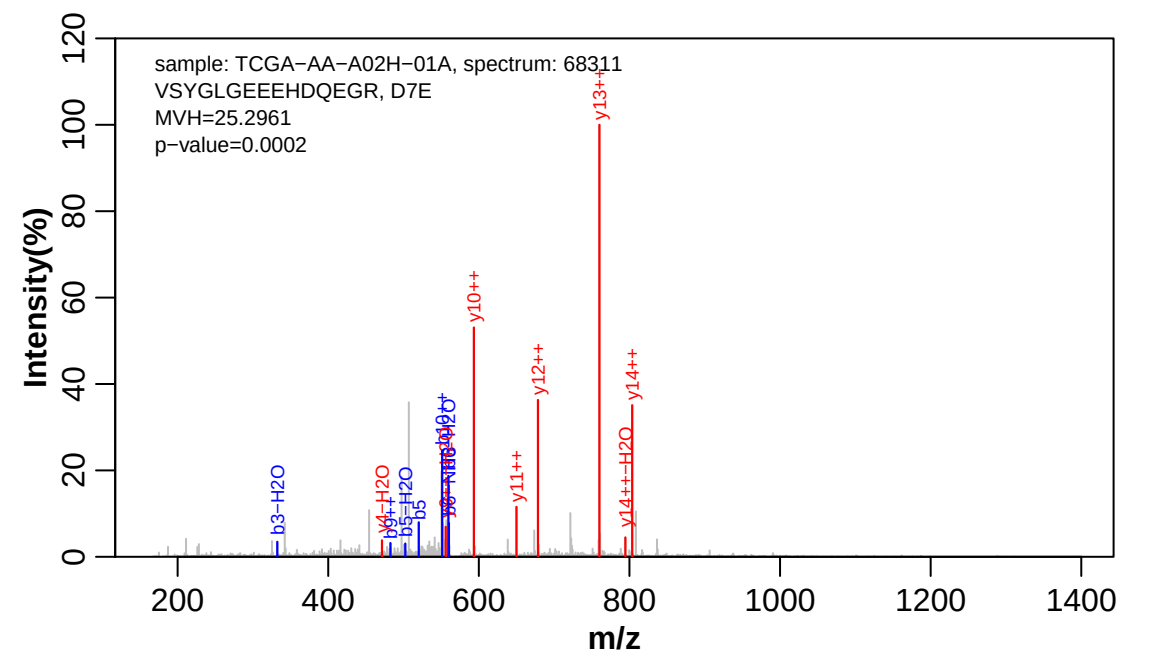

sample: TCGA−AA−A02H−01A, spectrum: 160175
VALLQFGGPGEQQVAFPLR, S19R
MVH=66.2685
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y8
y11
y12
y13
y14
b6−NH3
b9
b11−H2O
b12
b13−NH3
b14
b15
b16
b18−NH3

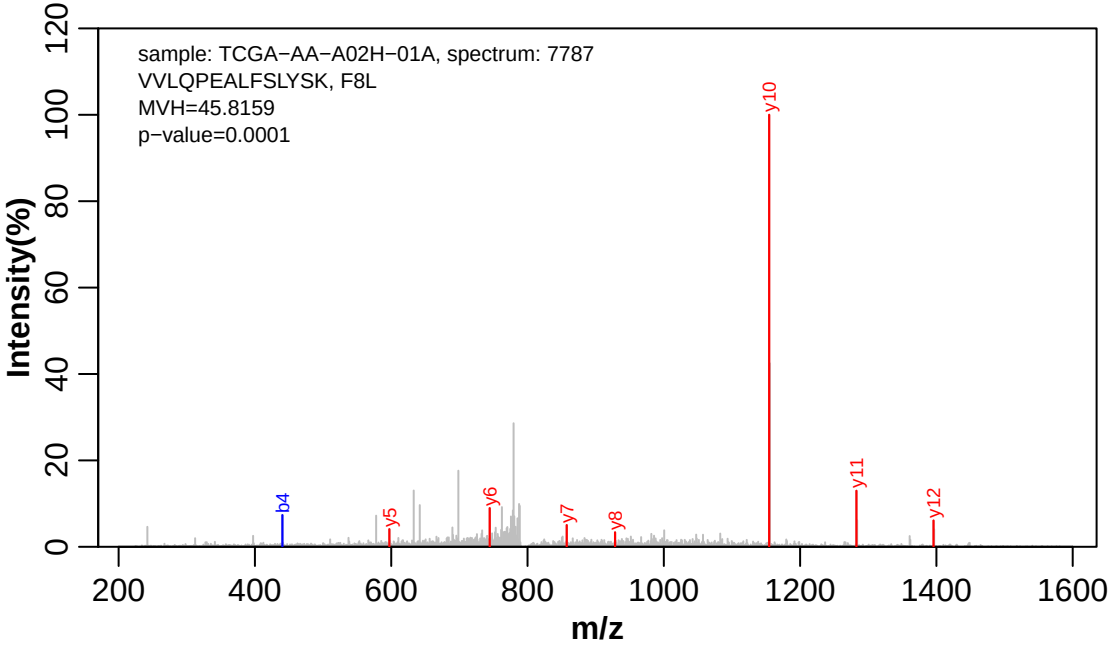

sample: TCGA−AA−A02H−01A, spectrum: 118618
VGDPAEDFGTFLSAVLDAK, F12L
MVH=66.6593
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5−y4
b6
y5
y6
b7−H2O
b7
y7−H2O
y7
b8
y8
b9
y9−NH3
y9
y10
b11−H2O
b11
y11
b12−H2O
b12
y12
b13−H2O
b14−NH3
b14
b15−H2O
b15
b16
b17

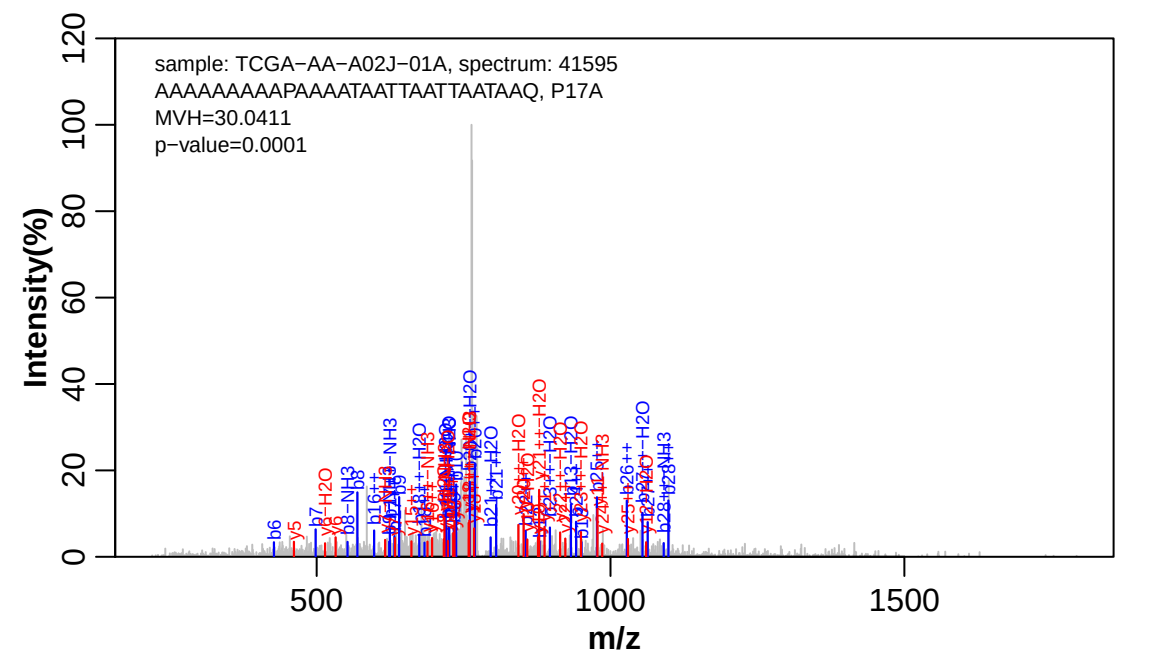

sample: TCGA−AA−A02H−01A, spectrum: 71092
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6
y5
y6
b7
y7
b8
y8−H2O
y8
b9

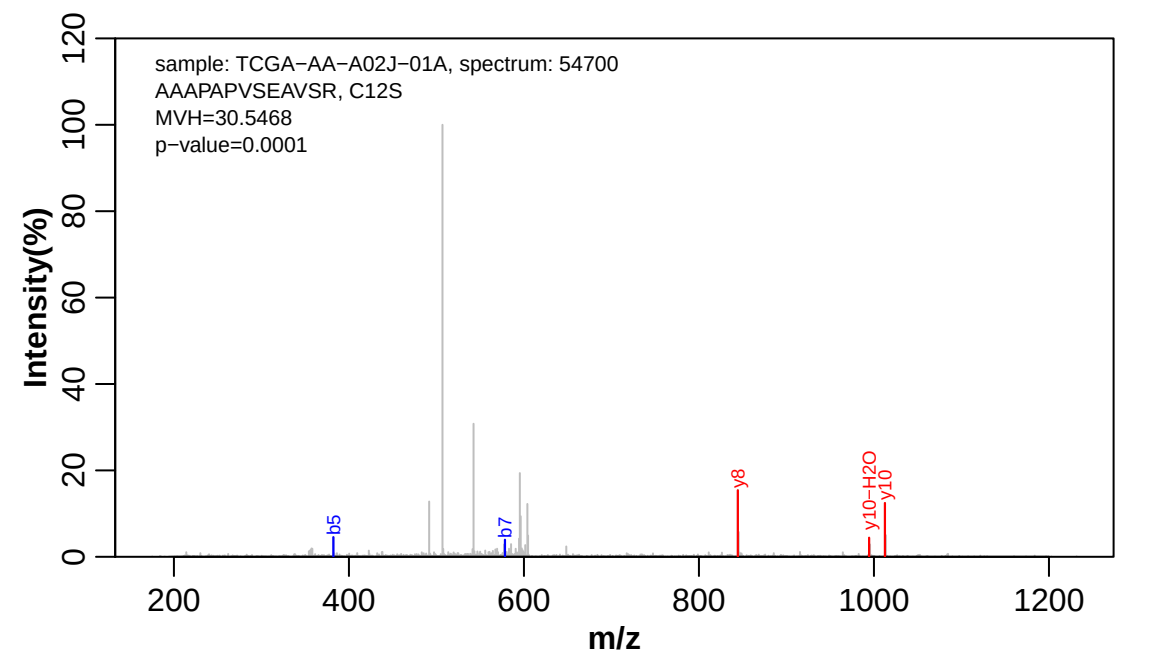

sample: TCGA−AA−A02H−01A, spectrum: 66595
VPVTQATR, L3V
MVH=38.1197
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
b5
y5
y6
y7

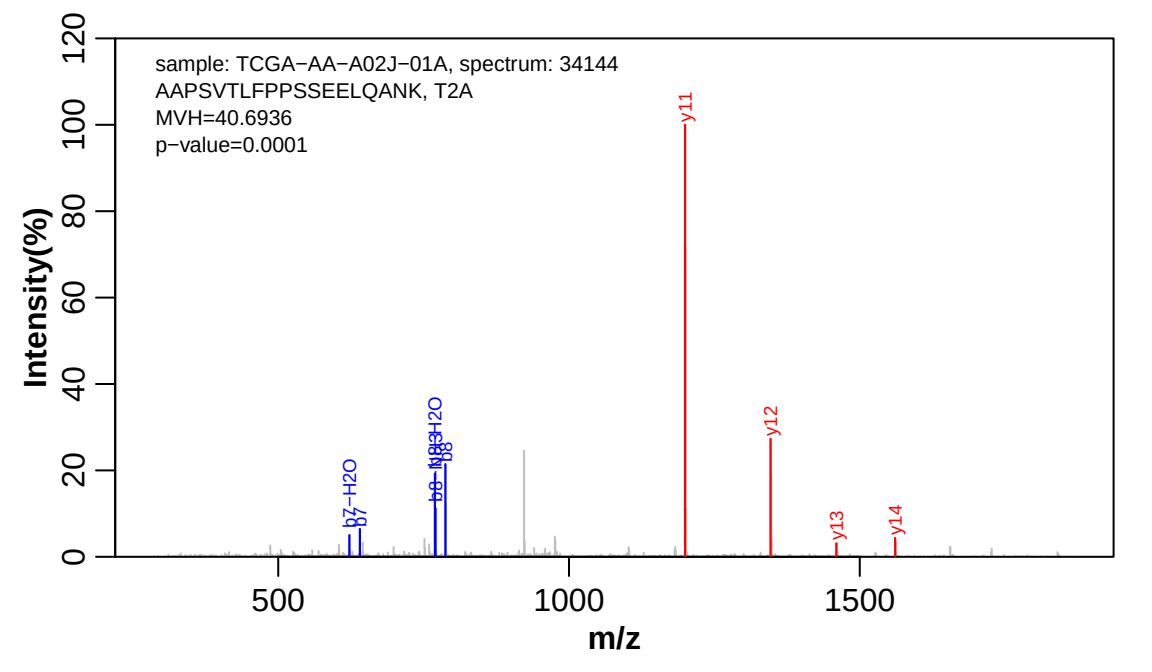

sample: TCGA−AA−A02H−01A, spectrum: 118219
VQLPTESLQELLDLHR, T7S
MVH=33.9499
p−value=0.0001
y13++
y14++
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

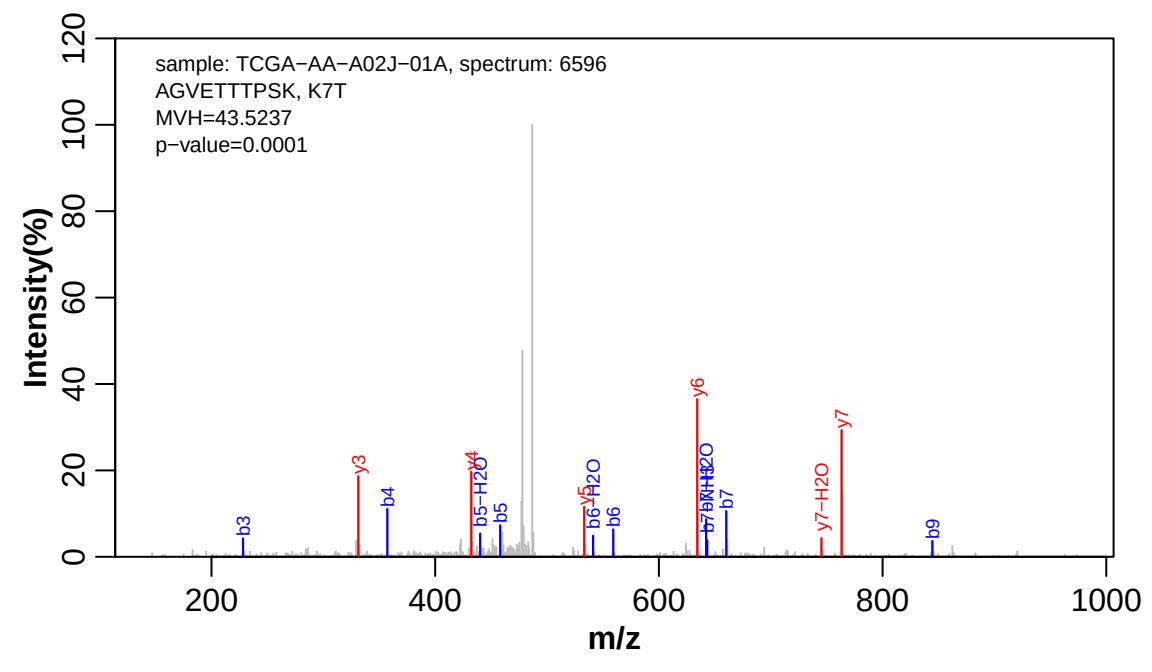

sample: TCGA−AA−A02H−01A, spectrum: 68311
VSYGLGEEEHDQEGR, D7E
MVH=25.2961
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
y10++
y12++
y14++
y11++
y14++−H2O
b3−H2O
y4−H2O
b5−H2O
b5

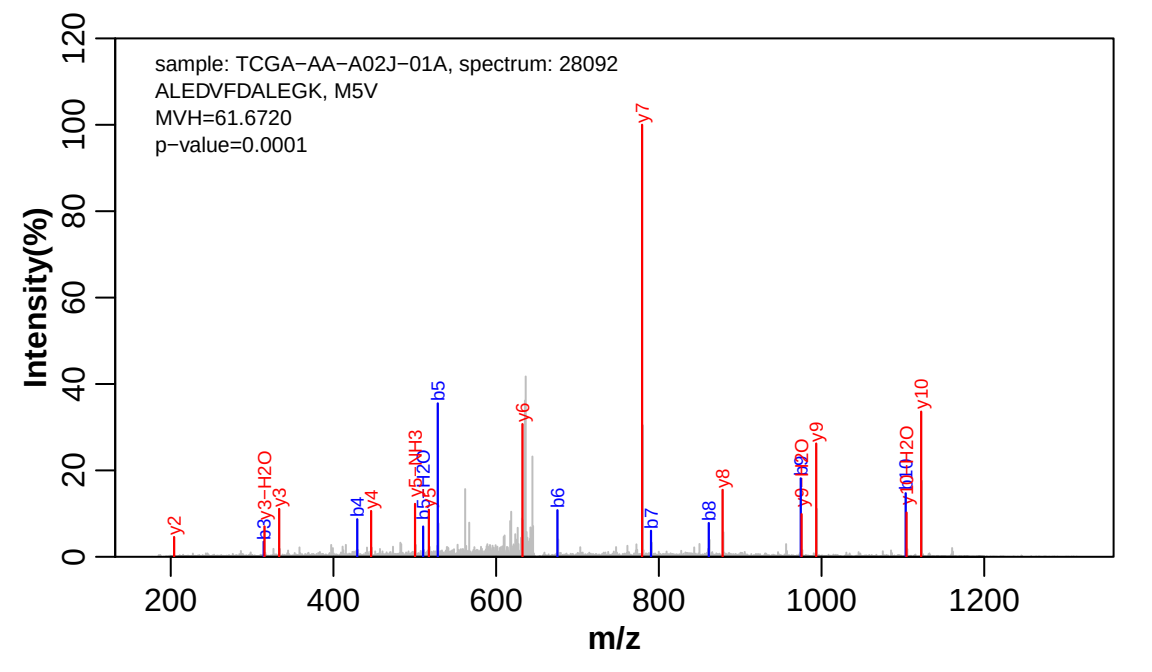

sample: TCGA−AA−A02H−01A, spectrum: 7787
VVLQPEALFSLYSK, F8L
MVH=45.8159
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
y7
y8
y10
y11
y12

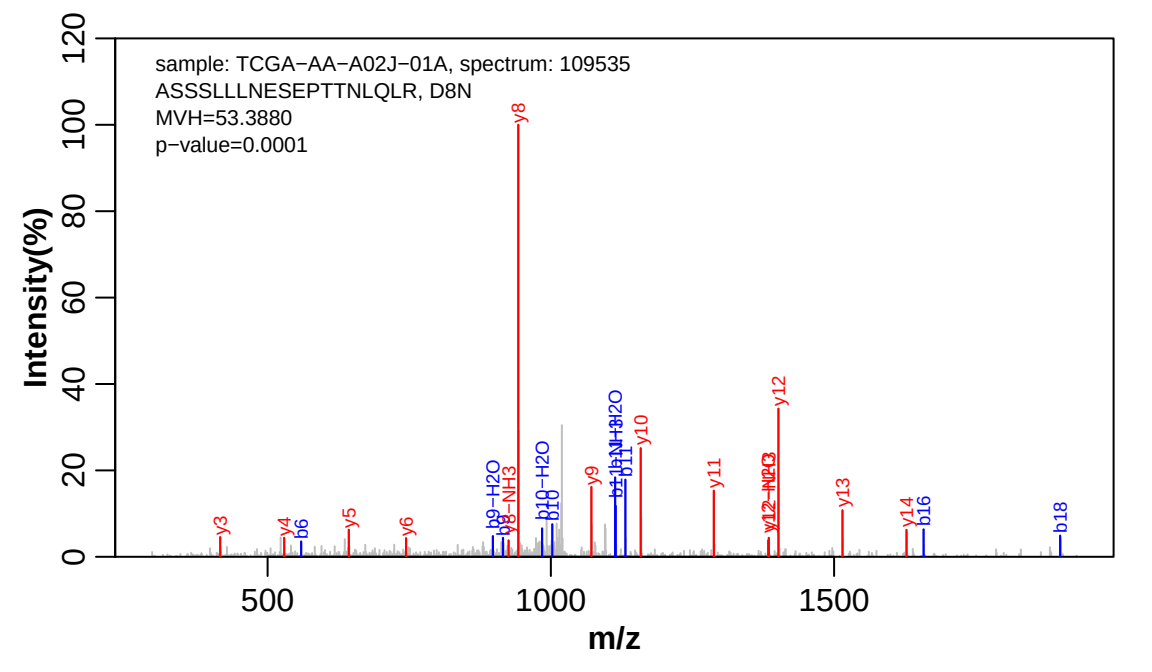

sample: TCGA−AA−A02J−01A, spectrum: 41595
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=30.0411
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

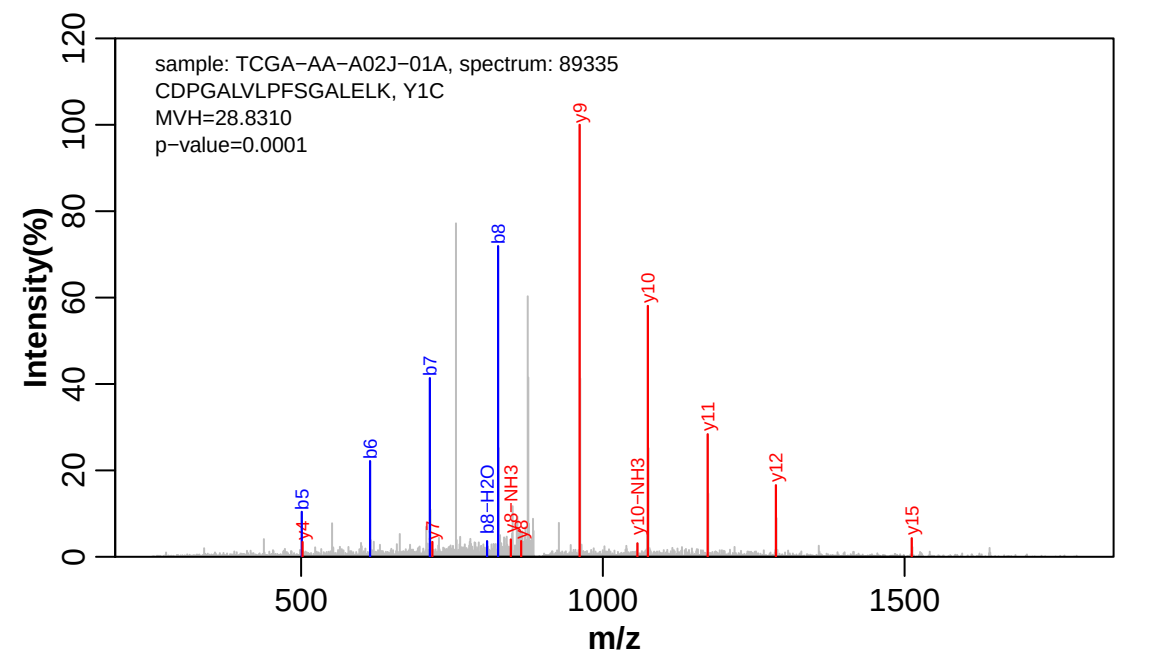

sample: TCGA−AA−A02J−01A, spectrum: 54700
AAAPAPVSEAVSR, C12S
MVH=30.5468
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10−H2O
y10

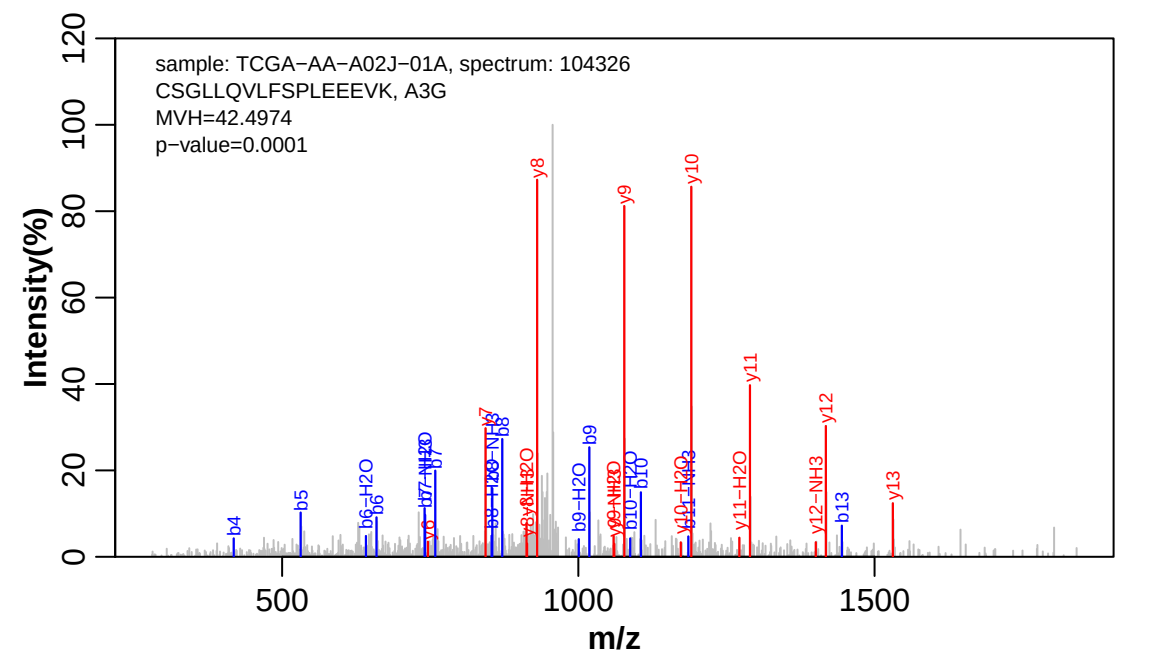

sample: TCGA−AA−A02J−01A, spectrum: 34144
AAPSVTLFPPSSEELQANK, T2A
MVH=40.6936
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b8−NH3−H2O

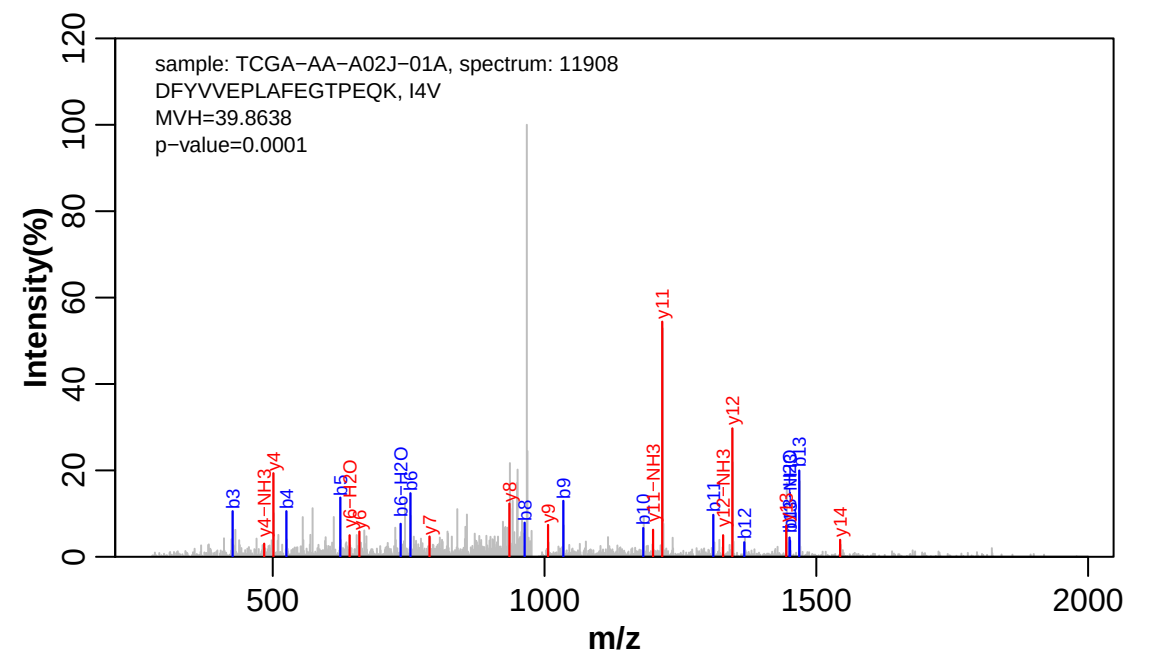

sample: TCGA−AA−A02J−01A, spectrum: 6596
AGVETTTPSK, K7T
MVH=43.5237
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
y4−H2O
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7
b9

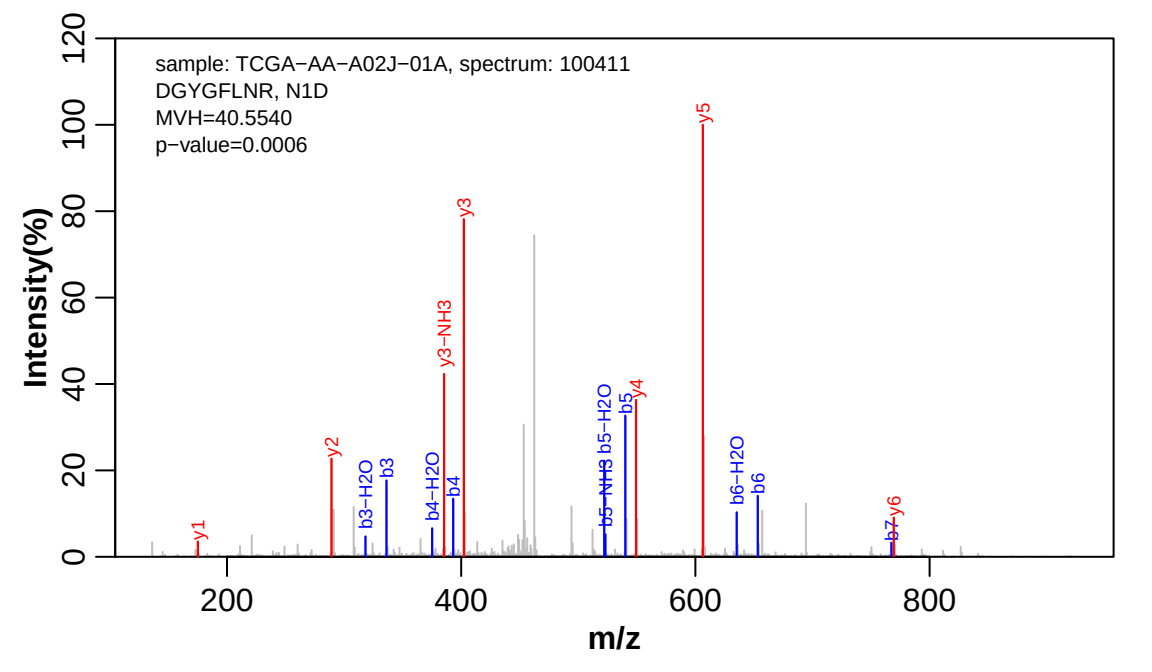

sample: TCGA−AA−A02J−01A, spectrum: 28092
ALEDVFDALEGK, M5V
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y5−NH3
y5−H2O
y5
y6
b6
y7
b7
b8
y8
y9−H2O
y9−NH3
y9
y10−H2O
y10−NH3
y10

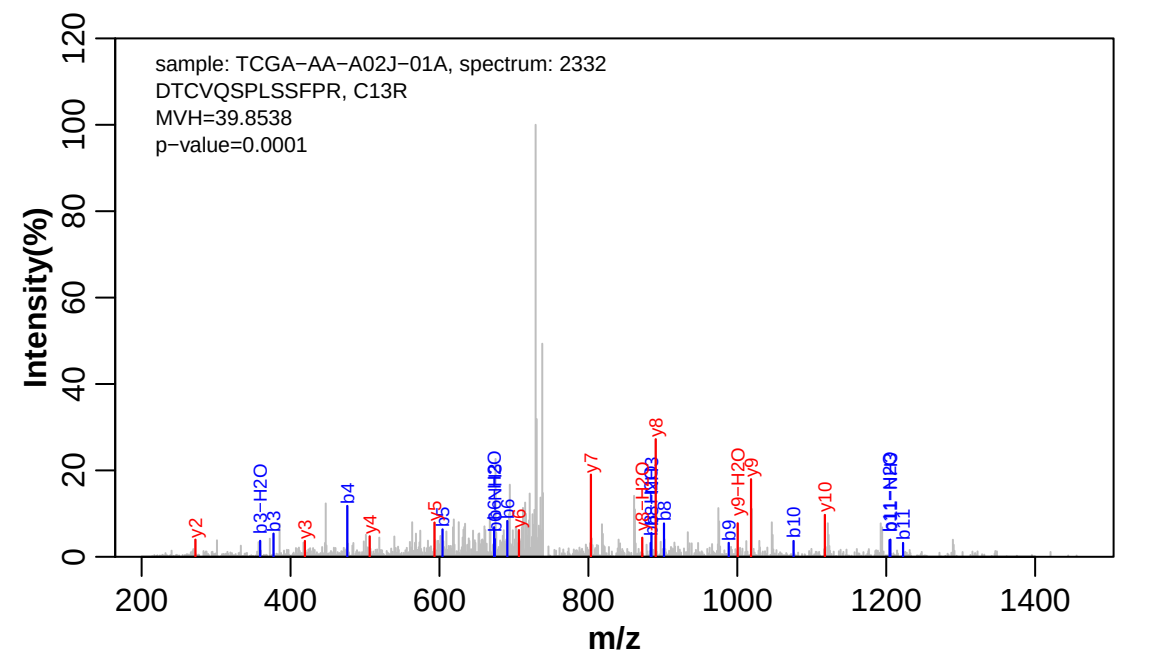

sample: TCGA−AA−A02J−01A, spectrum: 109535
ASSSLLLNESEPTTNLQLR, D8N
MVH=53.3880
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6
y5
y6
b9−H2O
b9−NH3
y8
b10−H2O
b10
y9
b11−H2O
y10
y11
y12
y13
y14
b16
b18

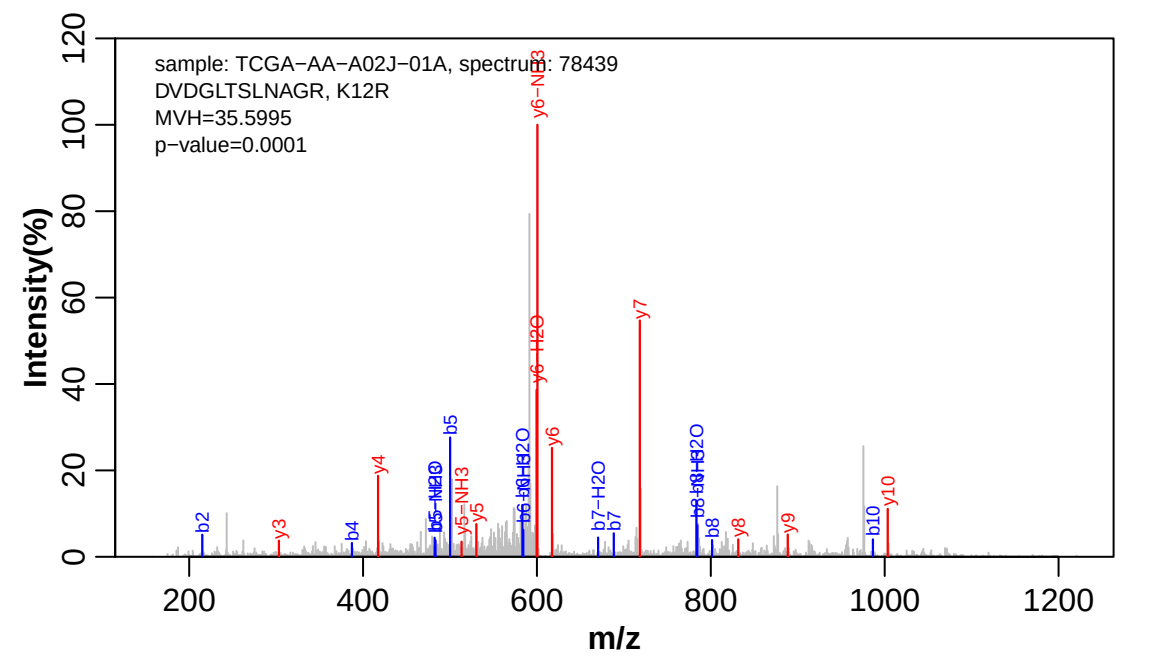

sample: TCGA−AA−A02J−01A, spectrum: 89335
CDPGALVLPFSGALELK, Y1C
MVH=28.8310
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4−b5
b6
b7
y7
b8−H2O
b8
y8−NH3
y8
y9
y10−NH3
y10
y11
y12
y15

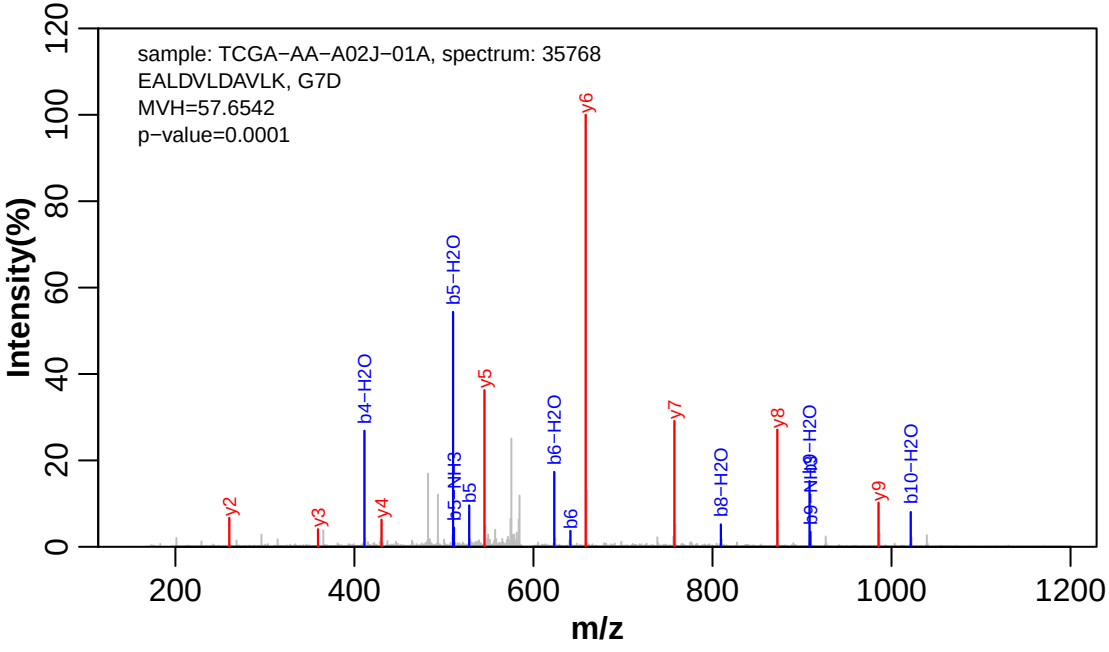

sample: TCGA−AA−A02J−01A, spectrum: 104326
CSGLLQVLFSPLEEEVK, A3G
MVH=42.4974
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5
b6−H2O
b6
b7−NH3
b7
b8−H2O
b8−NH3
b8
y8
y8−H2O
y8−NH3
b9−H2O
b9
y9−NH3
y9
b10−H2O
b10
y10−H2O
y10−NH3
y10
y11−H2O
y11
y12−NH3
y12
b13
y13

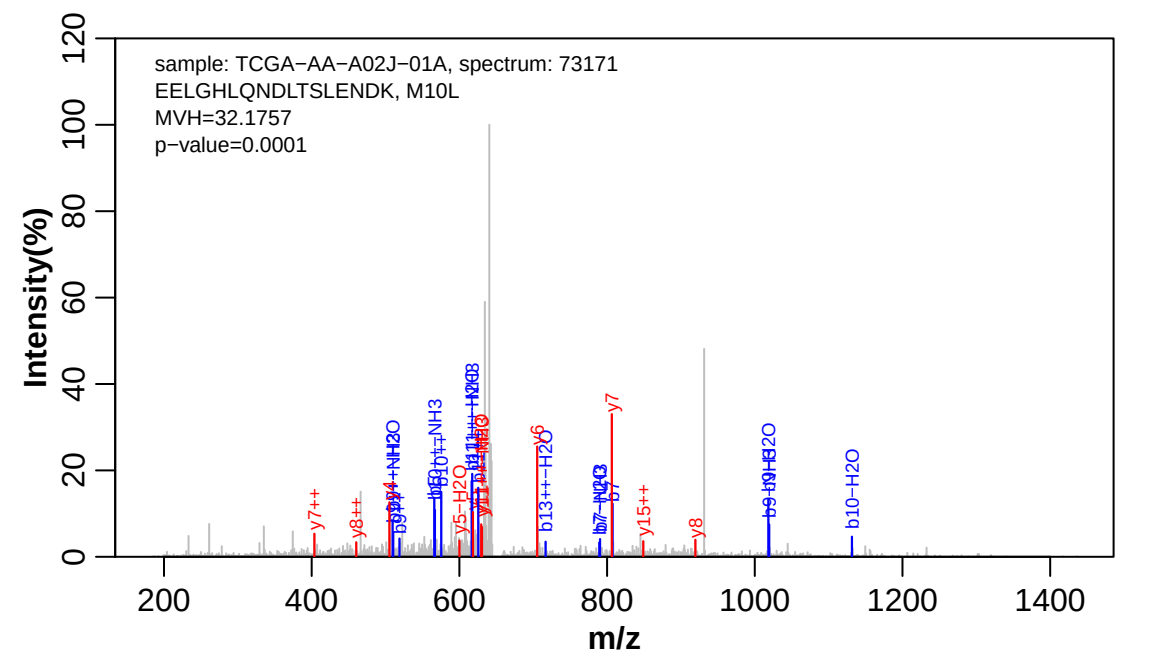

sample: TCGA−AA−A02J−01A, spectrum: 11908
DFYVVEPLAFEGTPEQK, I4V
MVH=39.8638
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3
y4−NH3
y4
b4
b5
y6−H2O
y6
b6−H2O
b6
y7
y8
b8
y9
b9
b10
y11−NH3
y11
b11
y12−NH3
y12
b12
b13
y14

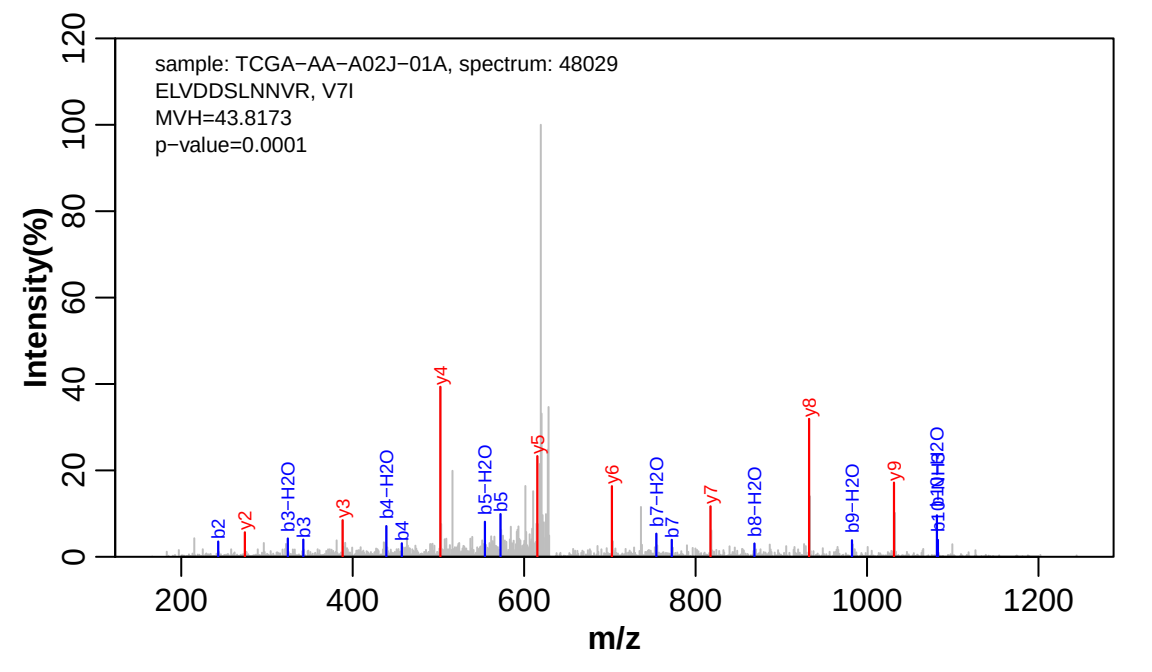

sample: TCGA−AA−A02J−01A, spectrum: 100411
DGYGFLNR, N1D
MVH=40.5540
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

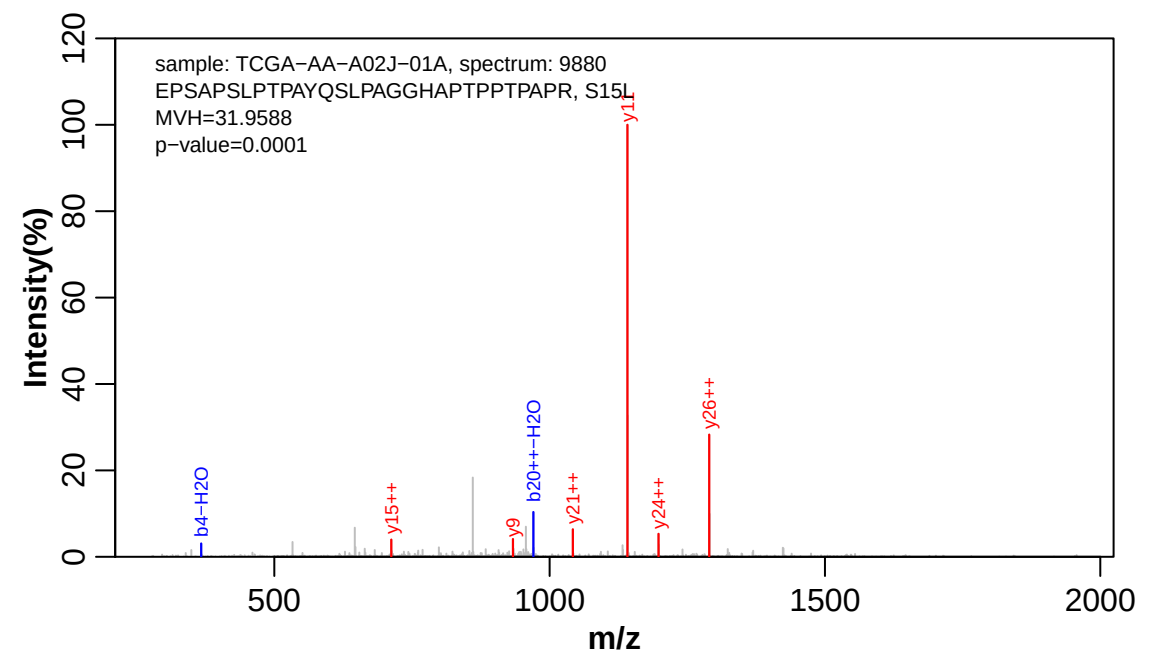

sample: TCGA−AA−A02J−01A, spectrum: 2332
DTCVQSPLSSFPR, C13R
MVH=39.8538
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4
y4
y5
b5
b6−NH3
b6
y6
y7
y8
b8
y9−H2O
y9
b9
b10
y10
b11−NH3
b11

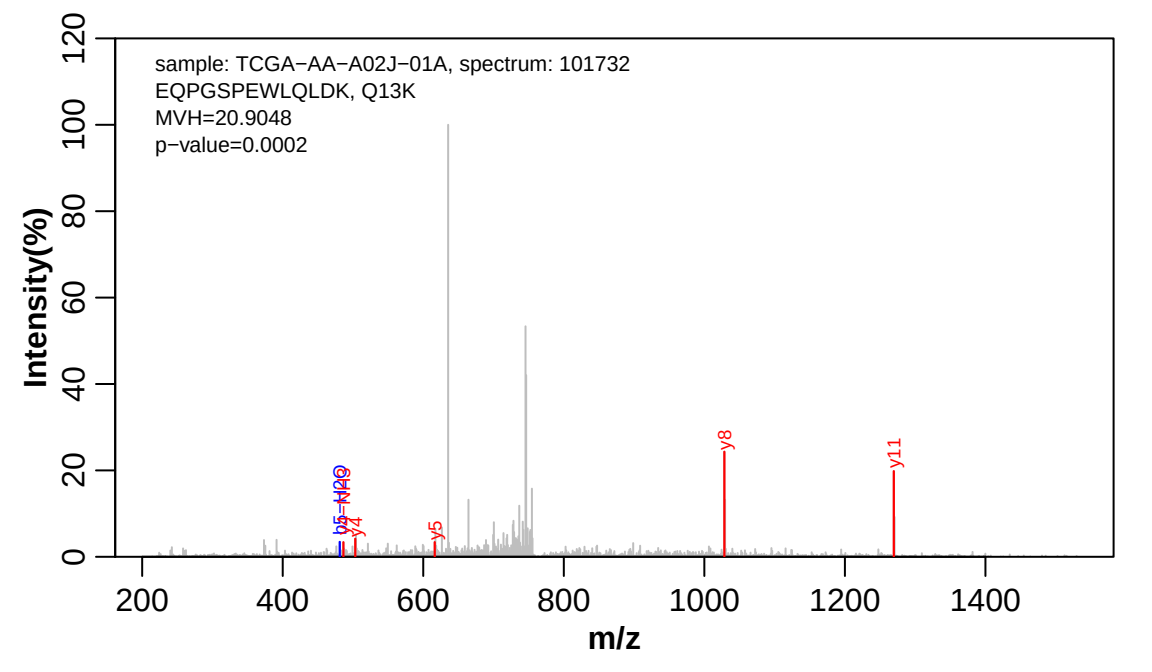

sample: TCGA−AA−A02J−01A, spectrum: 78439
DVDGLTSLNAGR, K12R
MVH=35.5995
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6−NH3
y6−H2O
y7
b5
y4
y6
b7−H2O
b7
y5−NH3
y5
b2
y3
b4
y8
y9
b10
y10

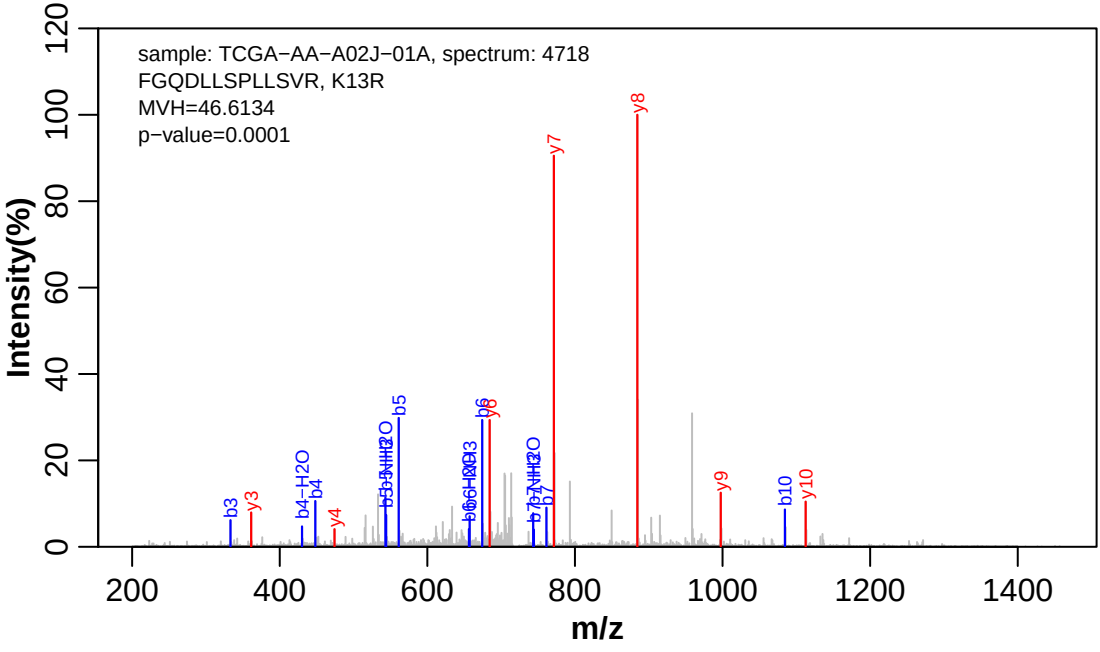

sample: TCGA−AA−A02J−01A, spectrum: 35768
EALDVLDAVLK, G7D
MVH=57.6542
p−value=0.0001
Intensity(%)
m/z
y6
b5−H2O
y5
b4−H2O
b6−H2O
y7
y8
b8−H2O
b9−H2O
b10−H2O
y9
y2
y3
y4
b5−NH3
b5
b6

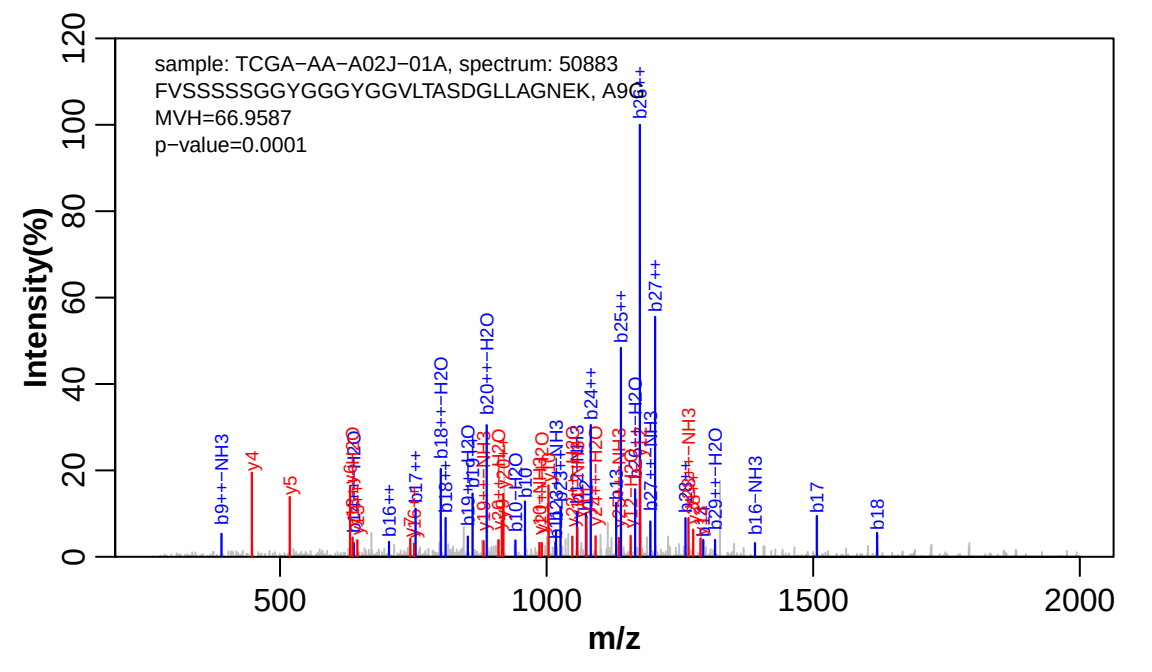

sample: TCGA−AA−A02J−01A, spectrum: 73171
EELGHLQNDLTSLENDK, M10L
MVH=32.1757
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y7++
y8++
y5−H2O
b13++−H2O
y7
y15++
y8
b10−H2O

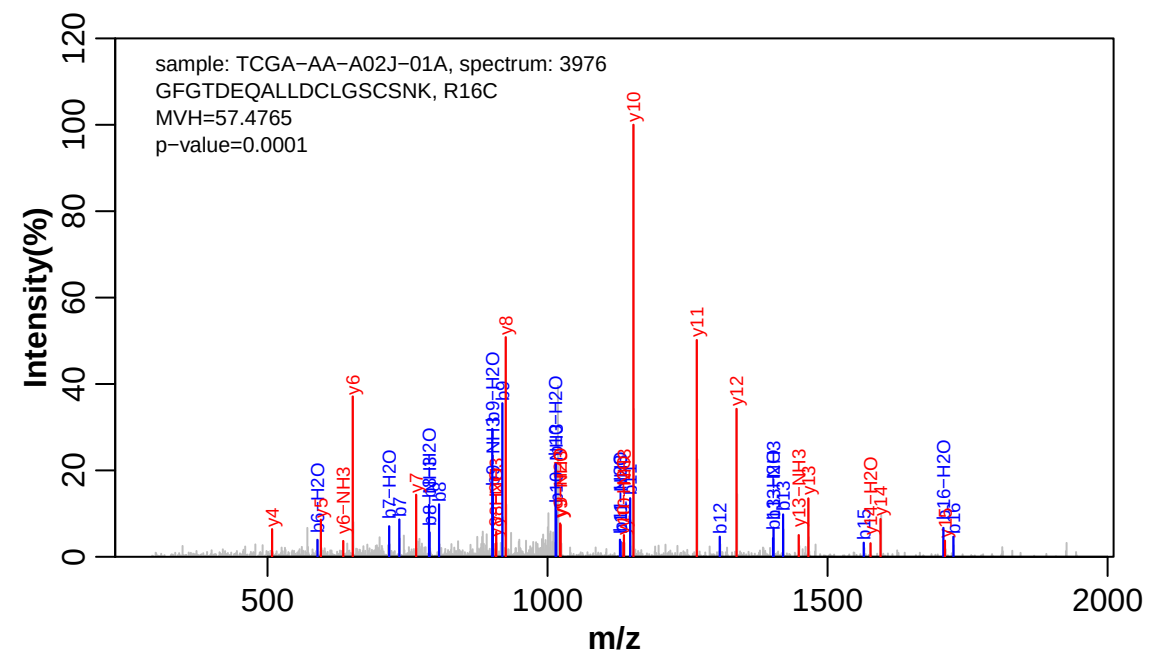

sample: TCGA−AA−A02J−01A, spectrum: 48029
ELVDDSLNNVR, V7I
MVH=43.8173
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
b8−H2O
y8
b9−H2O
y9

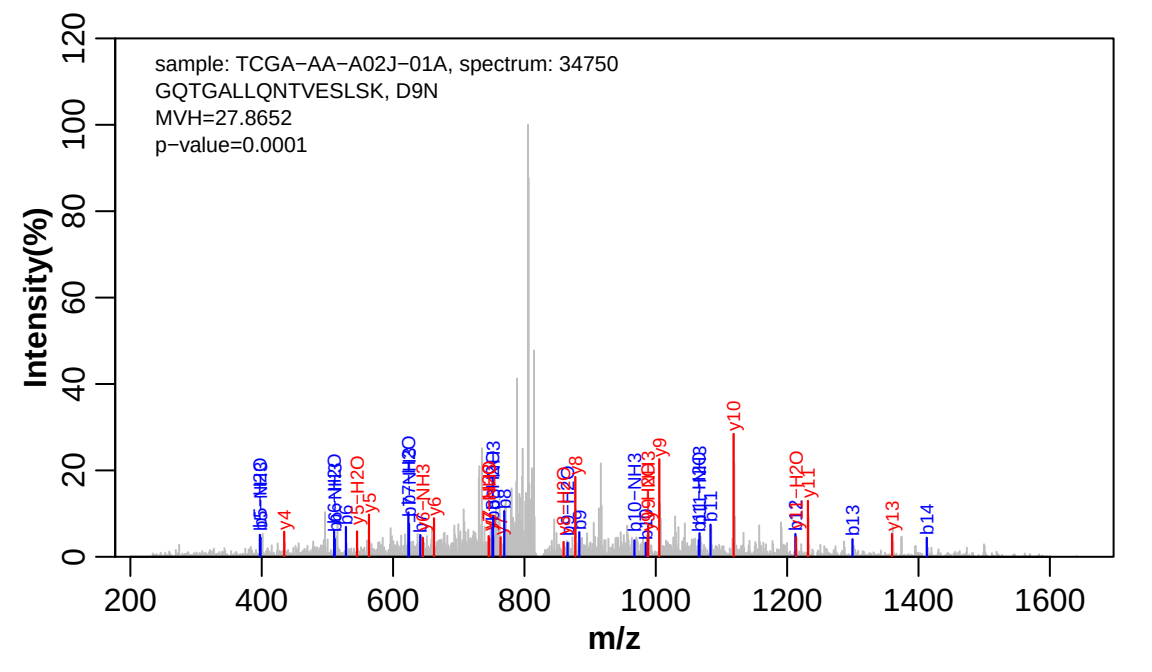

sample: TCGA−AA−A02J−01A, spectrum: 9880
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=31.9588
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y15++
y9
b20++−H2O
y21++
y11
y24++
y26++

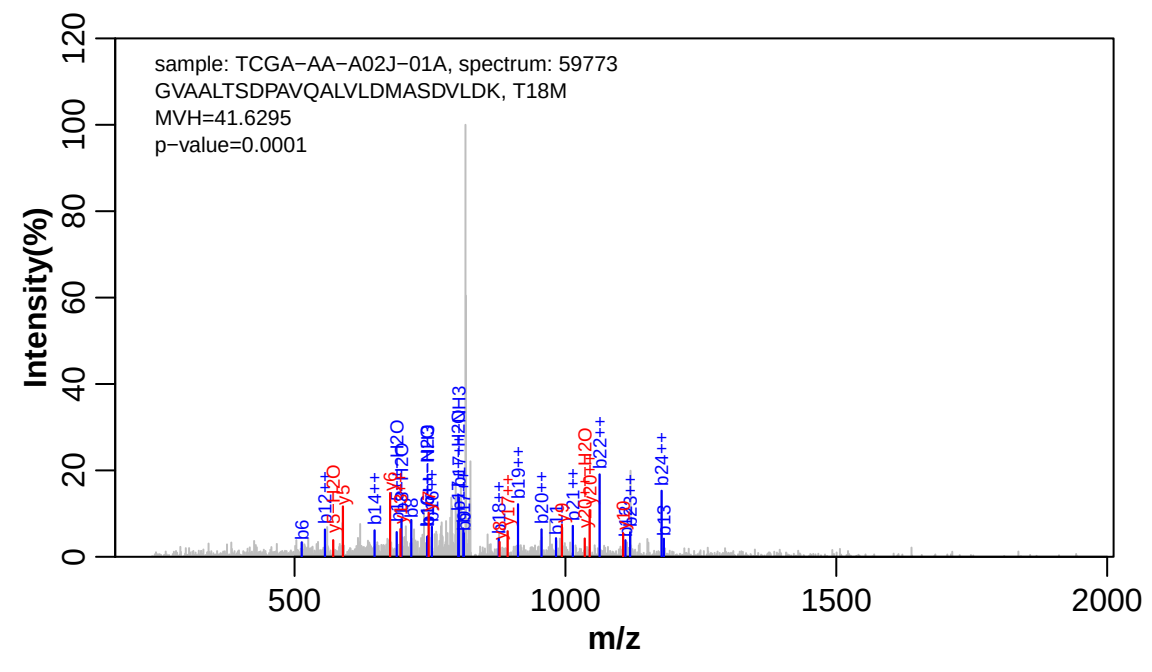

sample: TCGA−AA−A02J−01A, spectrum: 101732
EQPGSPEWLQLDK, Q13K
MVH=20.9048
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y4
y5
y8
y11

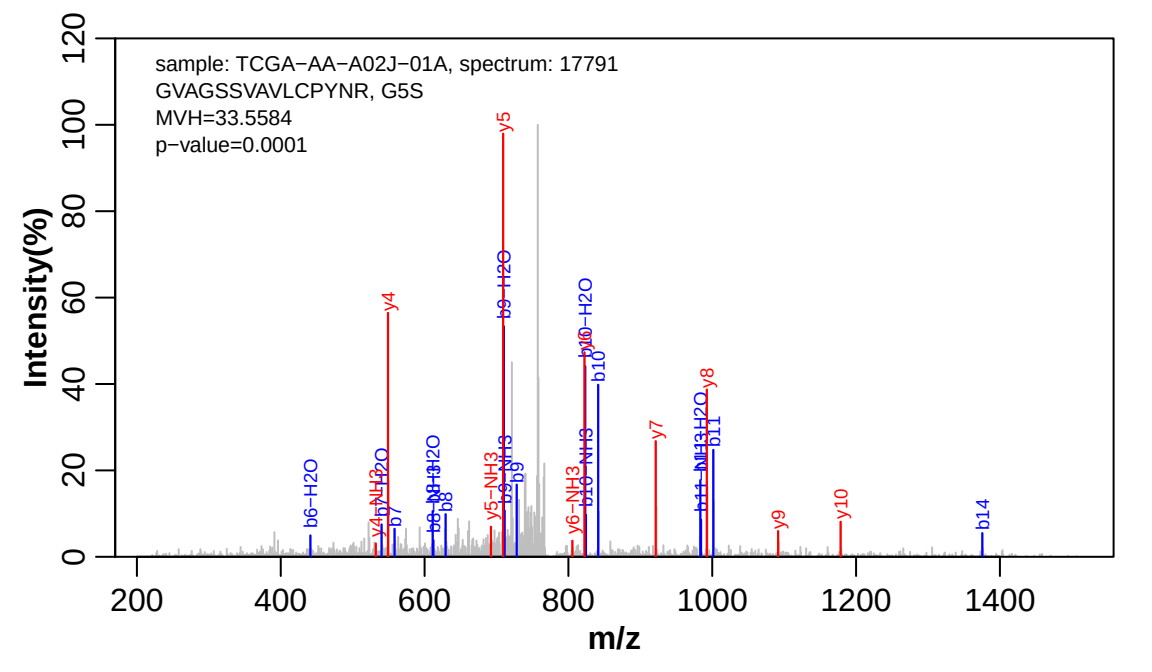

sample: TCGA−AA−A02J−01A, spectrum: 4718
FGQDLLSPLLSVR, K13R
MVH=46.6134
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y8
y7
y9
b10
y10

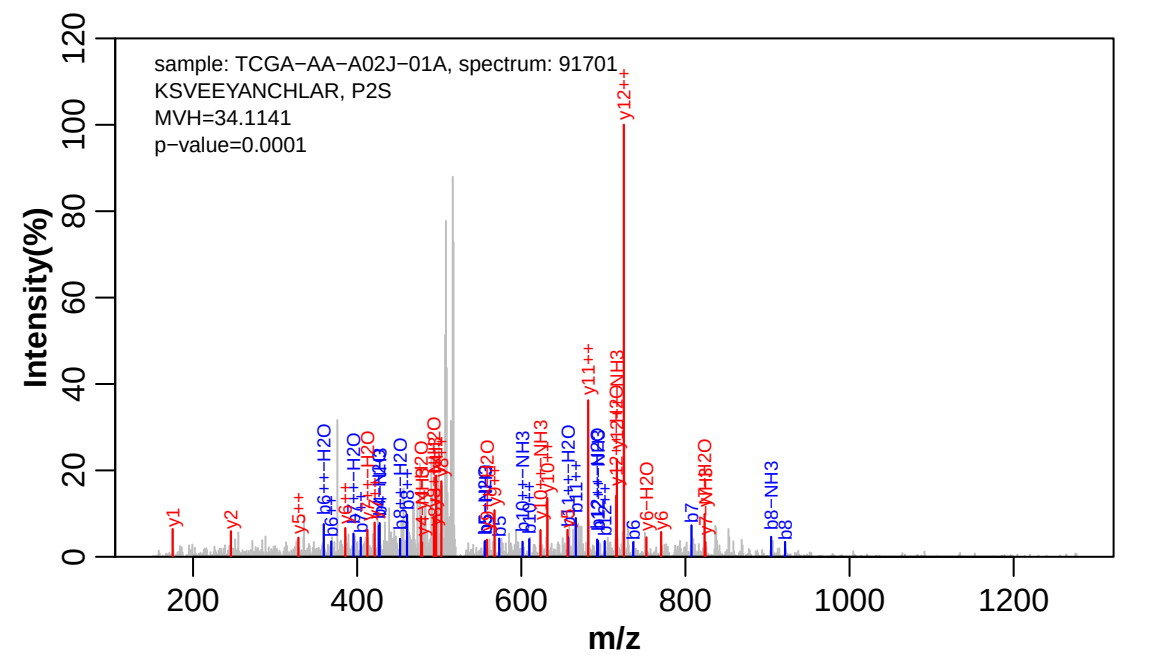

sample: TCGA−AA−A02J−01A, spectrum: 50883
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=66.9587
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
b16++
b17++
b18++−H2O
b20++−H2O
b25++
b24++
b27++
b26++
b16−NH3
b17
b18
b29++−H2O

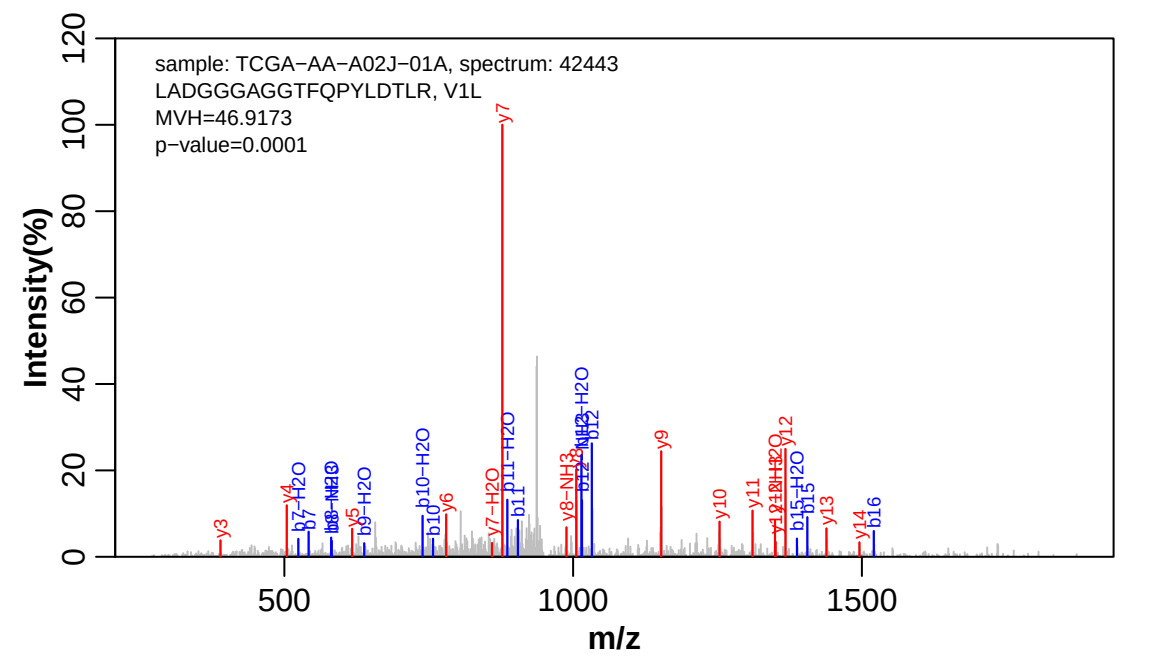

sample: TCGA−AA−A02J−01A, spectrum: 3976
GFGTDEQALLDCLGSCSNK, R16C
MVH=57.4765
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y12
y6
y4
y6−NH3
y7
y13
y14
b12
b15
b16−H2O
b7−H2O
b8−H2O
b9−H2O
b10−H2O

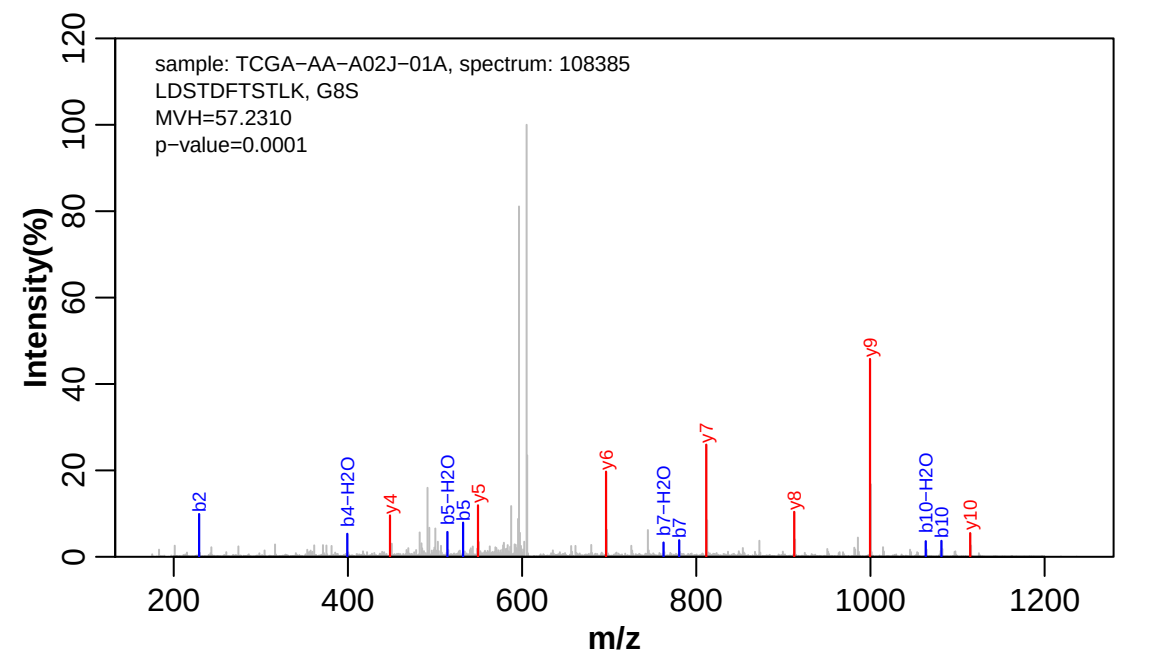

sample: TCGA−AA−A02J−01A, spectrum: 34750
GQTGALLQNTVESLSK, D9N
MVH=27.8652
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
y5−H2O
y6−NH3
y8
y9
y10
y11−H2O
b13
y13
b14

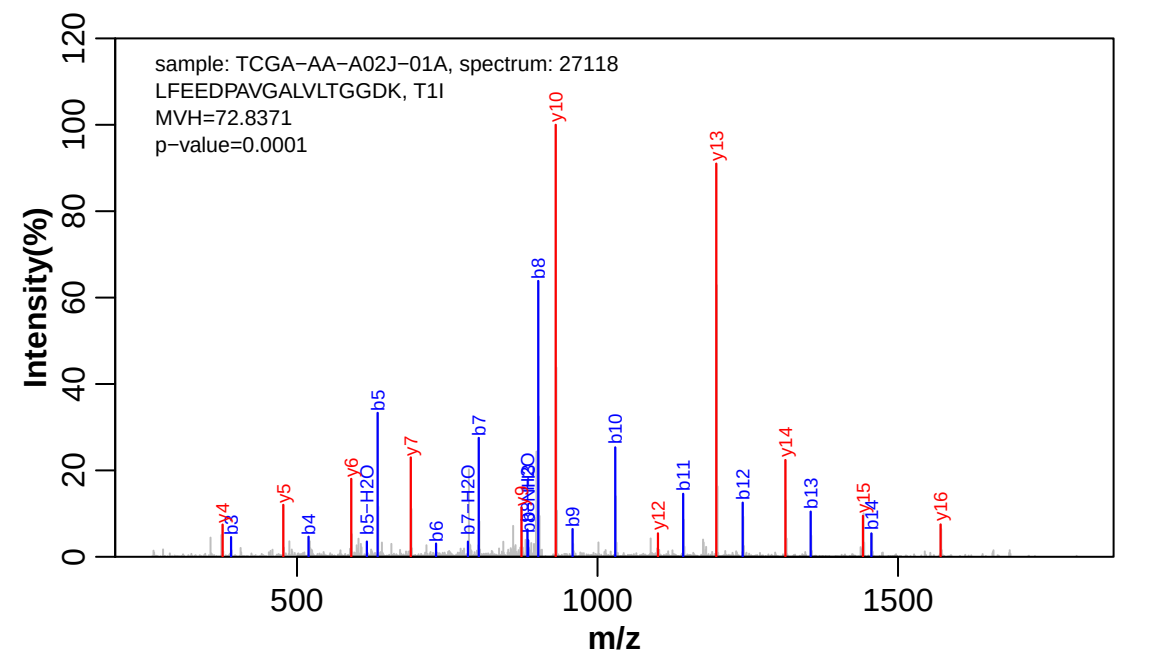

sample: TCGA−AA−A02J−01A, spectrum: 59773
GVAALTSDPAVQALVLDMASDVLDK, T18M
MVH=41.6295
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b6
b12++
y5
y5−H2O
b14++
y6
b8
b16++−NH3
b17++−H2O
b17++
b18++
y17++
b19++
b20++
b21++
y20++−H2O
b22++
b23++
b24++
b13

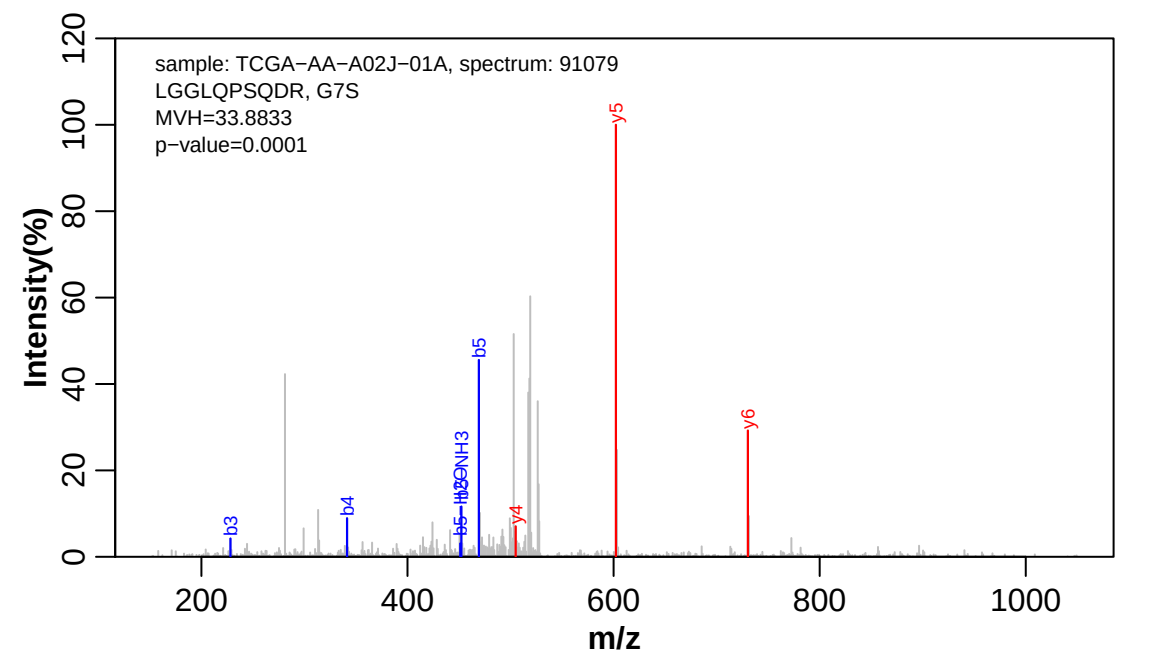

sample: TCGA−AA−A02J−01A, spectrum: 17791
GVAGSSVAVLCPYNR, G5S
MVH=33.5584
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
y7
b11
b6−H2O
y5−NH3
y6−NH3
y9
y10
b14

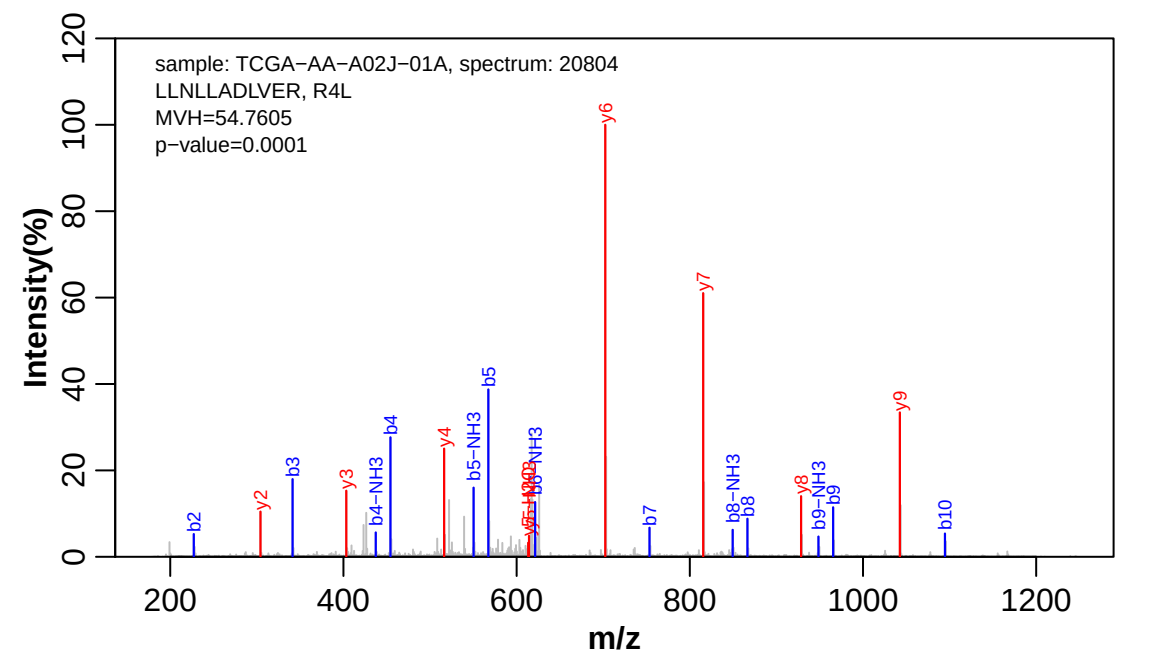

sample: TCGA−AA−A02J−01A, spectrum: 91701
KSVEEYANCHLAR, P2S
MVH=34.1141
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
y2
y5++
b6++−H2O
b6++
y6++−H2O
y6++
b7++−H2O
b7++
y7++−H2O
y7++
b8++−H2O
b8++
y8++−H2O
y8++
b5−NH3
b5
b10++−NH3
y10++−NH3
b11++−H2O
y11++
b6
y6−H2O
y6
b7
y7−NH3−H2O
b8−NH3
b8
y12++

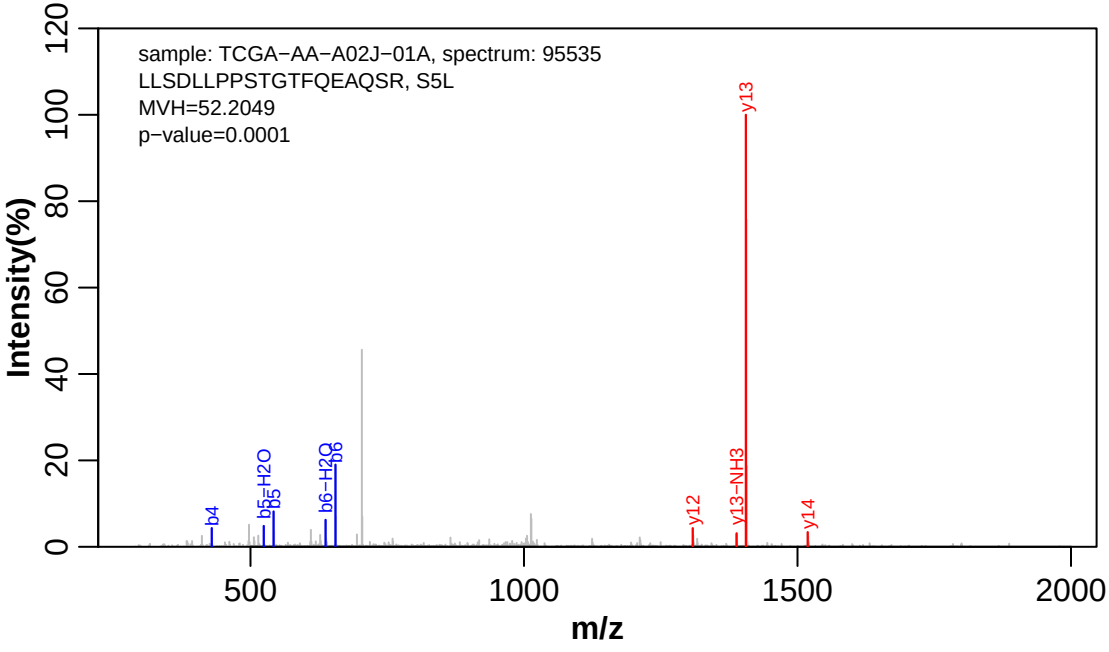

sample: TCGA−AA−A02J−01A, spectrum: 42443
LADGGGAGGTFQPYLDTLR, V1L
MVH=46.9173
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y3
y4
b7−H2O
b7
b8−NH3
b8
y5
b9−H2O
b10−H2O
b10
y6
y7−H2O
b11−H2O
b11
y8−NH3
y8
b12−H2O
b12
y9
y10
y11
y12
b15−H2O
b15
y13
y14
b16

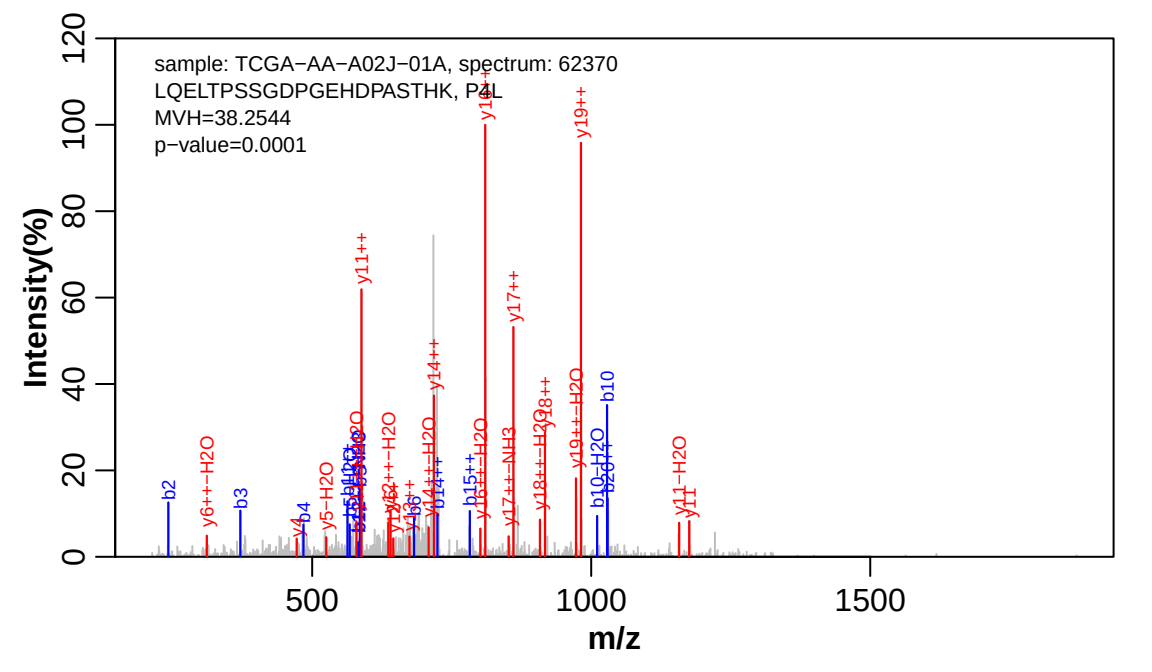

sample: TCGA−AA−A02J−01A, spectrum: 108385
LDSTDFTSTLK, G8S
MVH=57.2310
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8
y9
b10−H2O
b10
y10

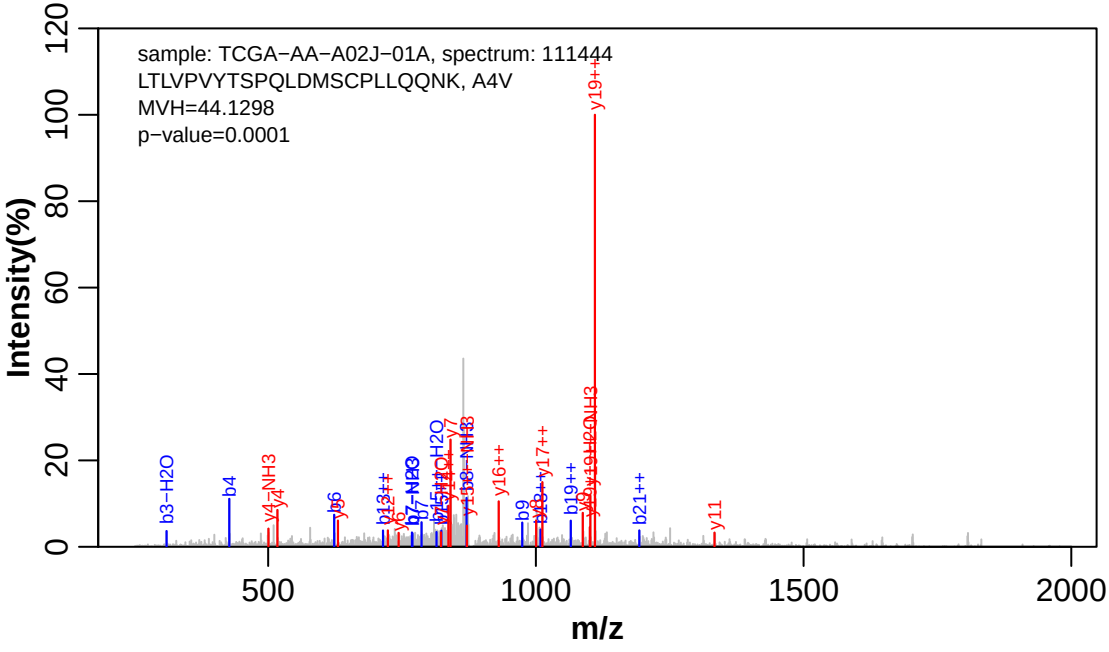

sample: TCGA−AA−A02J−01A, spectrum: 27118
LFEEDPAVGALVLTGGDK, T1I
MVH=72.8371
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
b5
y7
b7
y6
b5−H2O
b7−H2O
y5
y4
b3
b4
b6
b10
b11
b12
y14
b13
y15
b14
y16
y12
b9

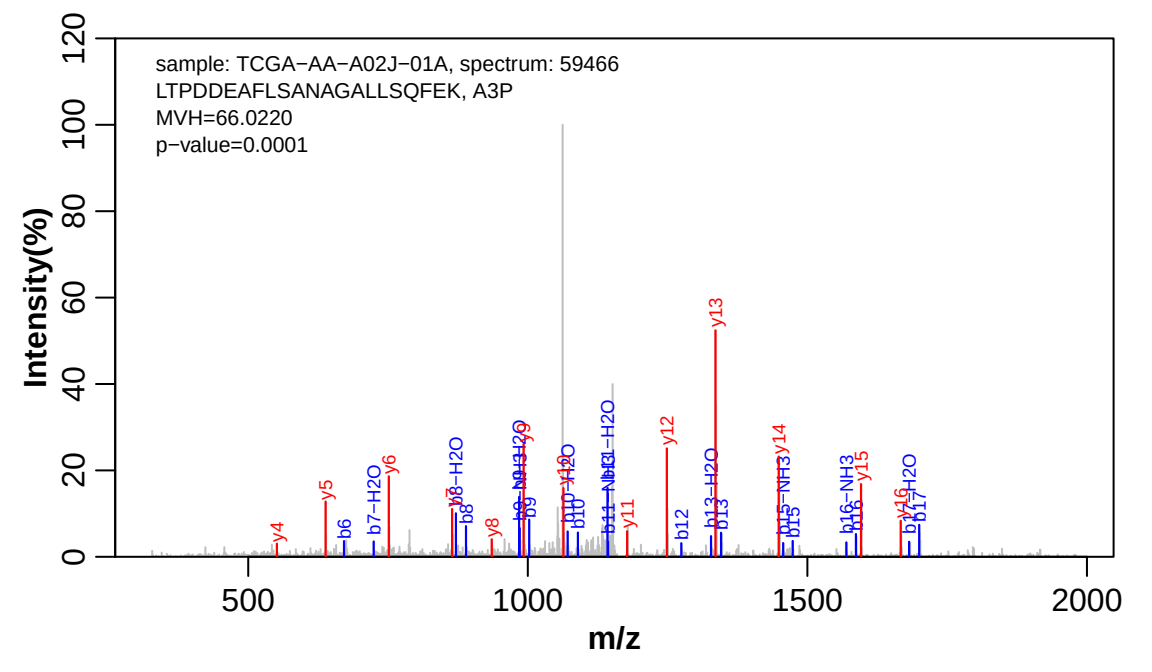

sample: TCGA−AA−A02J−01A, spectrum: 91079
LGGLQPSQDR, G7S
MVH=33.8833
p−value=0.0001
Intensity(%)
m/z
y5
b5
y6
b3
b4
y4
b5−NH3
0
20
40
60
80
100
120
200
400
600
800
1000

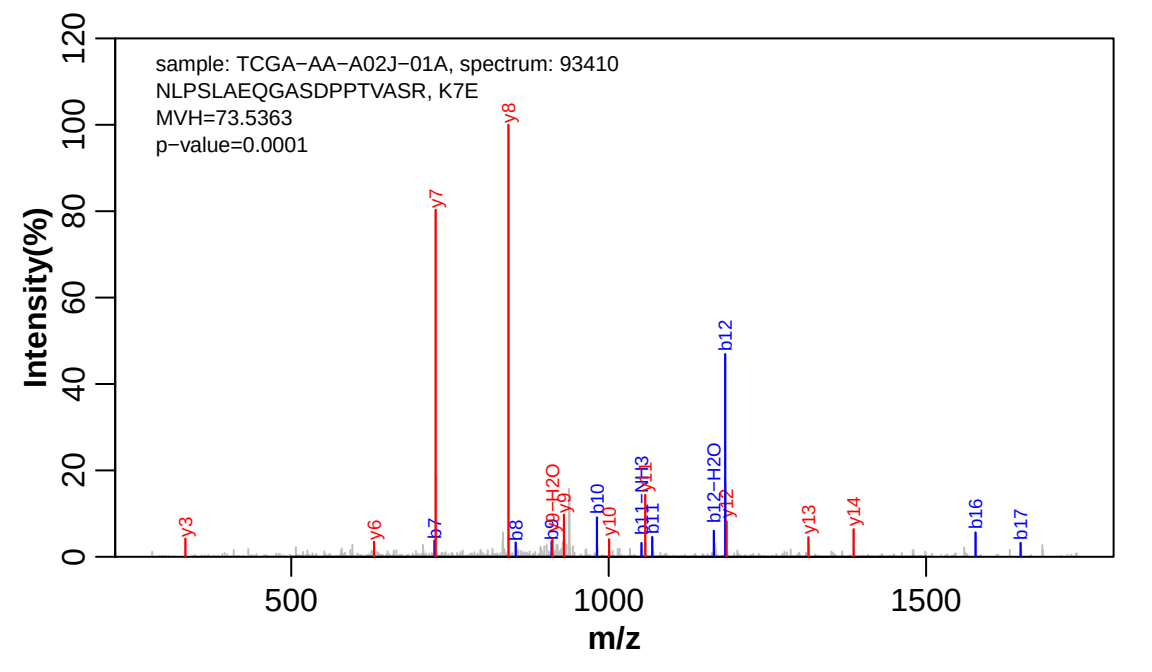

sample: TCGA−AA−A02J−01A, spectrum: 20804
LLNLLADLVER, R4L
MVH=54.7605
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10
y6

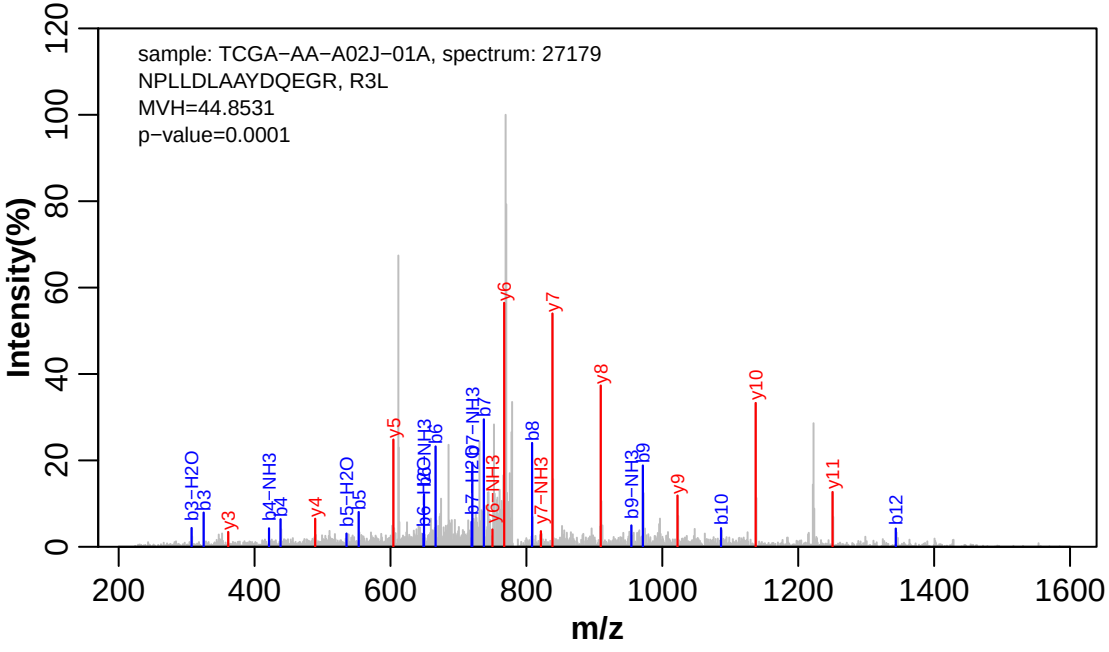

sample: TCGA−AA−A02J−01A, spectrum: 95535
LLSDLLPPSTGTFQEAQSR, S5L
MVH=52.2049
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4
b5
b5−H2O
b6
b6−H2O
y12
y13−NH3
y13
y14

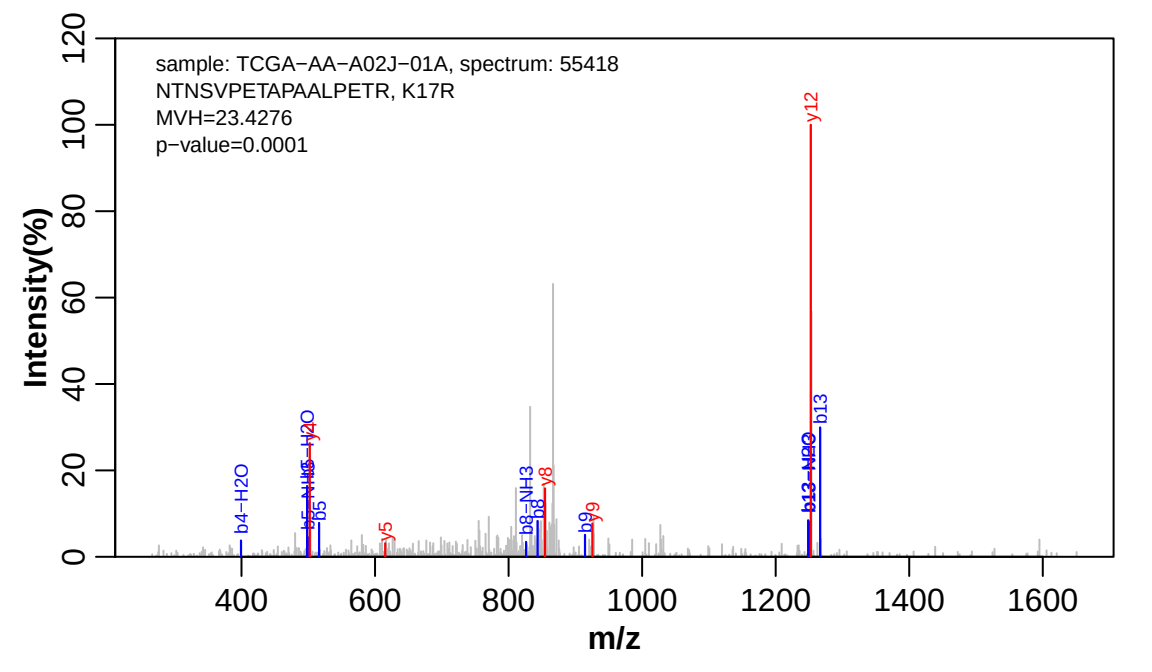

sample: TCGA−AA−A02J−01A, spectrum: 62370
LQELTPSSGDPGEHDPASTHK, P4L
MVH=38.2544
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y6++−H2O
b3
b4
y5−H2O
y11++
y14++
y19++
y17++
y14++−H2O
y15++−H2O
y16++−H2O
y17++−NH3
y18++−H2O
y18++
y19++−H2O
b10
b10−H2O
y11−H2O
y11

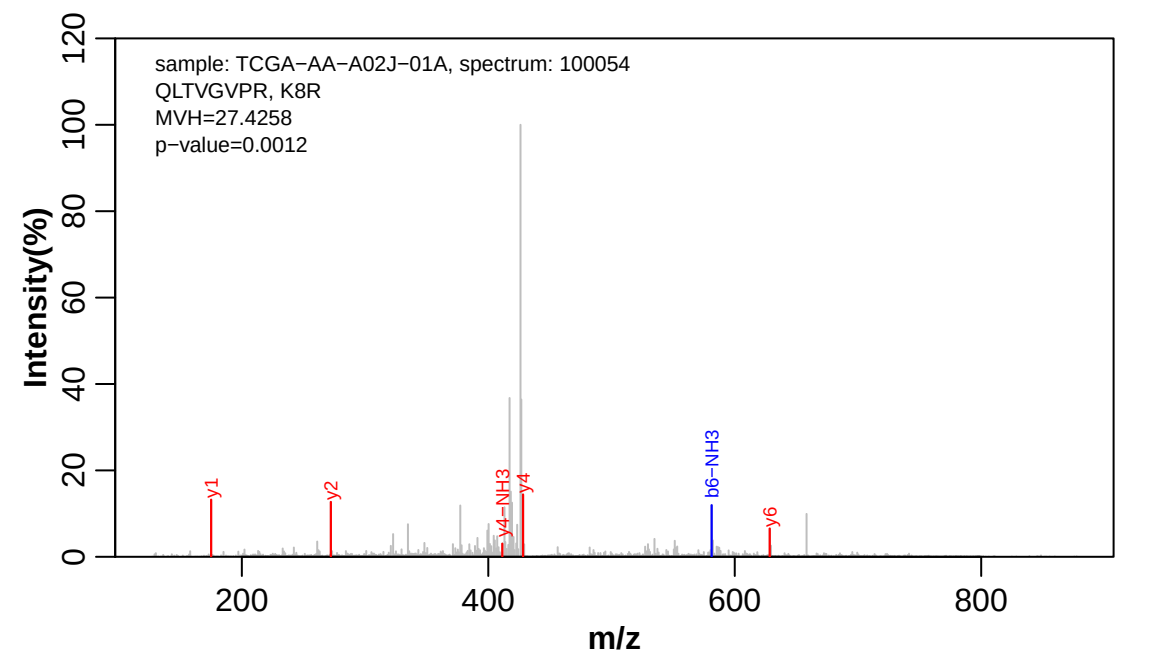

sample: TCGA−AA−A02J−01A, spectrum: 111444
LTLVPVYTSPQLDMSCPLLQQNK, A4V
MVH=44.1298
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b4
y4−NH3
y4
b6
y6
b12++
y6
b7−NH3
b7
b7−H2O
y7
b14++
y15
y15−NH3
y16++
b9
b19++
y17++
b19++
y19++
y19H2ONH3
b21++
y11

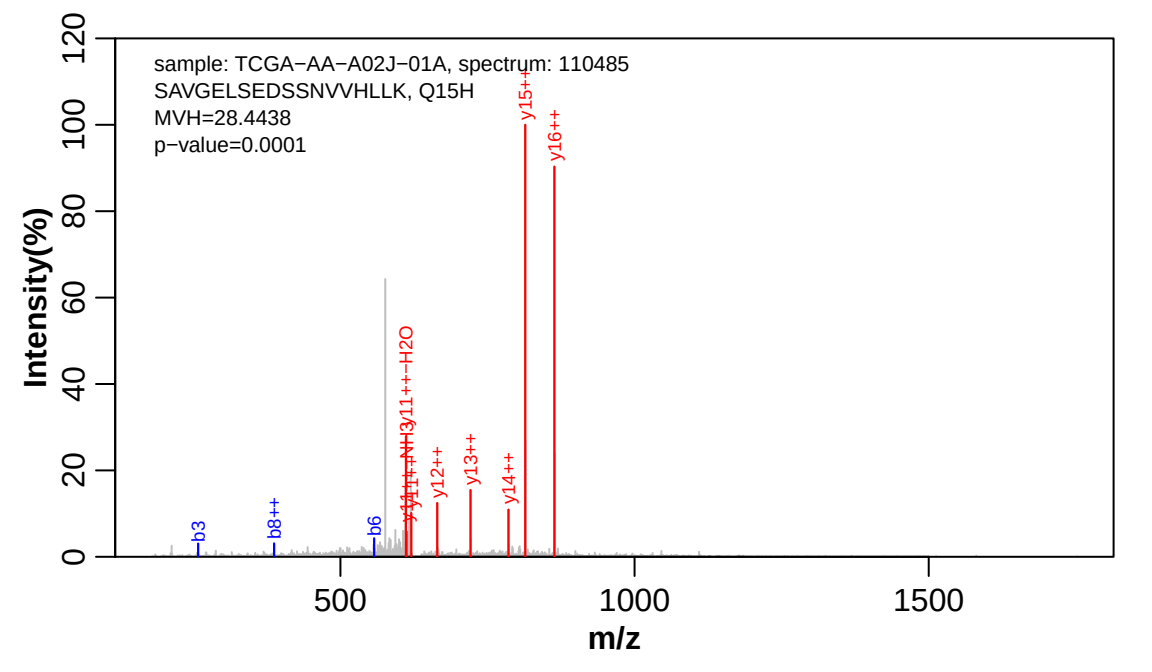

sample: TCGA−AA−A02J−01A, spectrum: 59466
LTPDDEAFLSANAGALLSQFEK, A3P
MVH=66.0220
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
y5
b6
b7−H2O
y6
y7
b8−H2O
b8
y8
b9−NH3−H2O
b9
y9
b10−H2O
b10
y10
b11−NH3−H2O
b11
y11
y12
b12
b13−H2O
b13
y13
b15−NH3
y14
b15
b16−NH3
b16
y15
y16
b17−H2O
b17

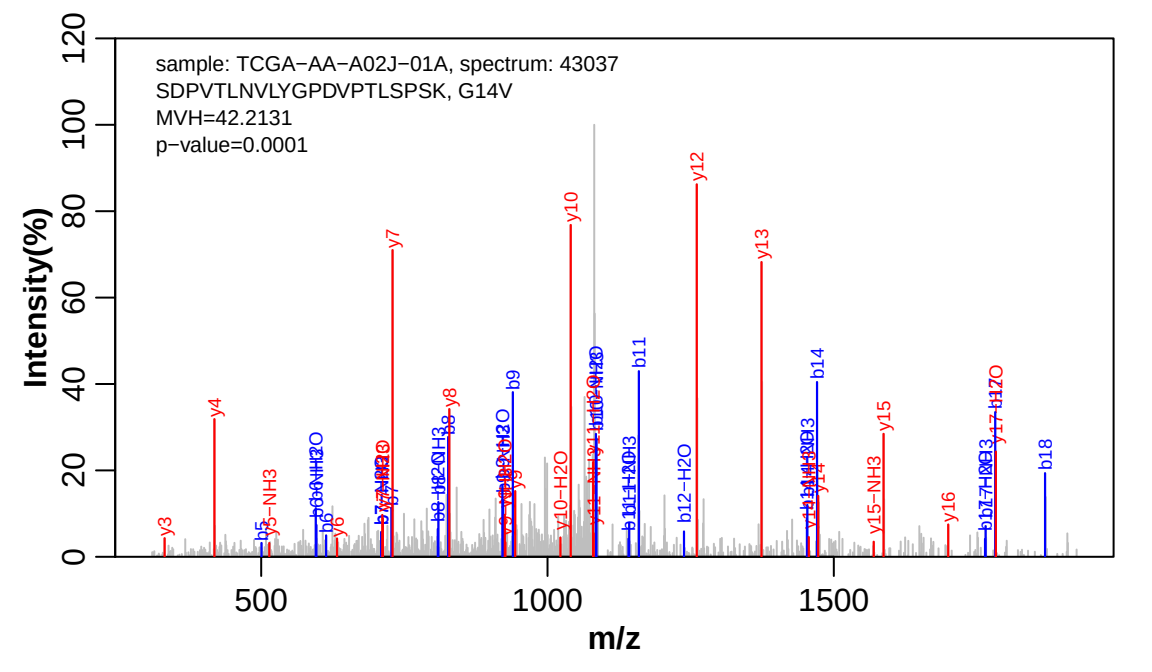

sample: TCGA−AA−A02J−01A, spectrum: 93410
NLPSLAEQGASDPPTVASR, K7E
MVH=73.5363
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y6
b7
y7
y8
b8
b9−H2O
y9
b10
y10
b11−NH3
b11
y11
b12
b12−H2O
y12
y13
y14
b16
b17

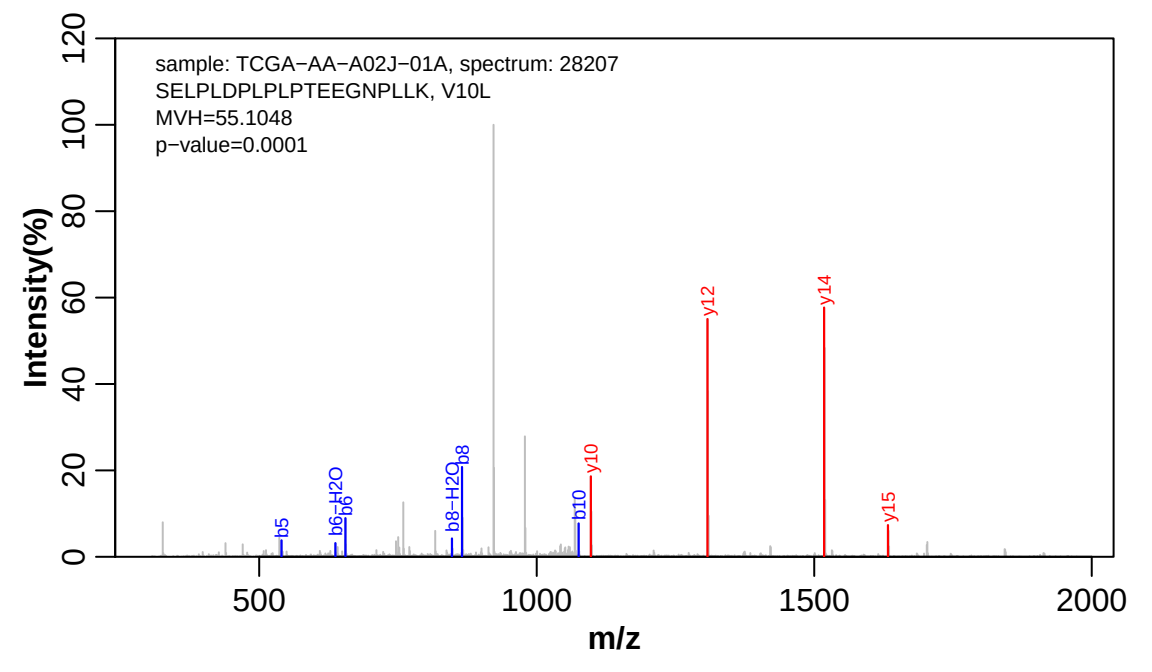

sample: TCGA−AA−A02J−01A, spectrum: 27179
NPLLDLAAYDQEGR, R3L
MVH=44.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y3
b4−NH3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6−NH3
y6
y7
b8
y7−NH3
y8
b9−NH3
b9
y9
b10
y10
y11
b12

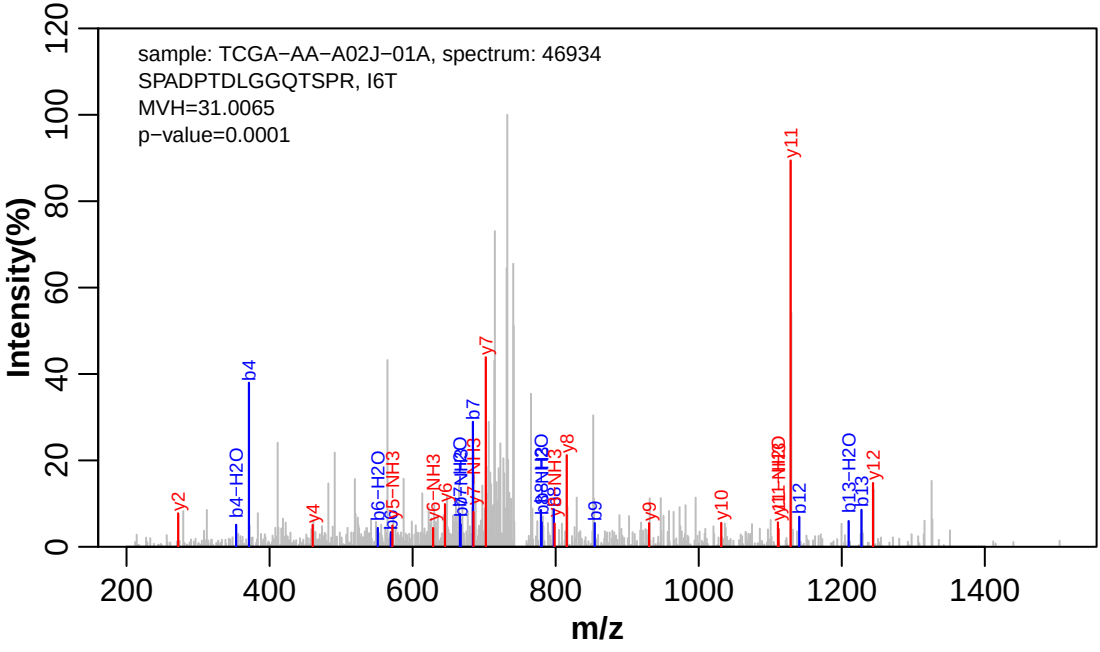

sample: TCGA−AA−A02J−01A, spectrum: 55418
NTNSVPETAPAALPETR, K17R
MVH=23.4276
p−value=0.0001
Intensity(%)
m/z
y12
b13
y8
y9
y5
b4−H2O
b5
y4
b8
b9
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600

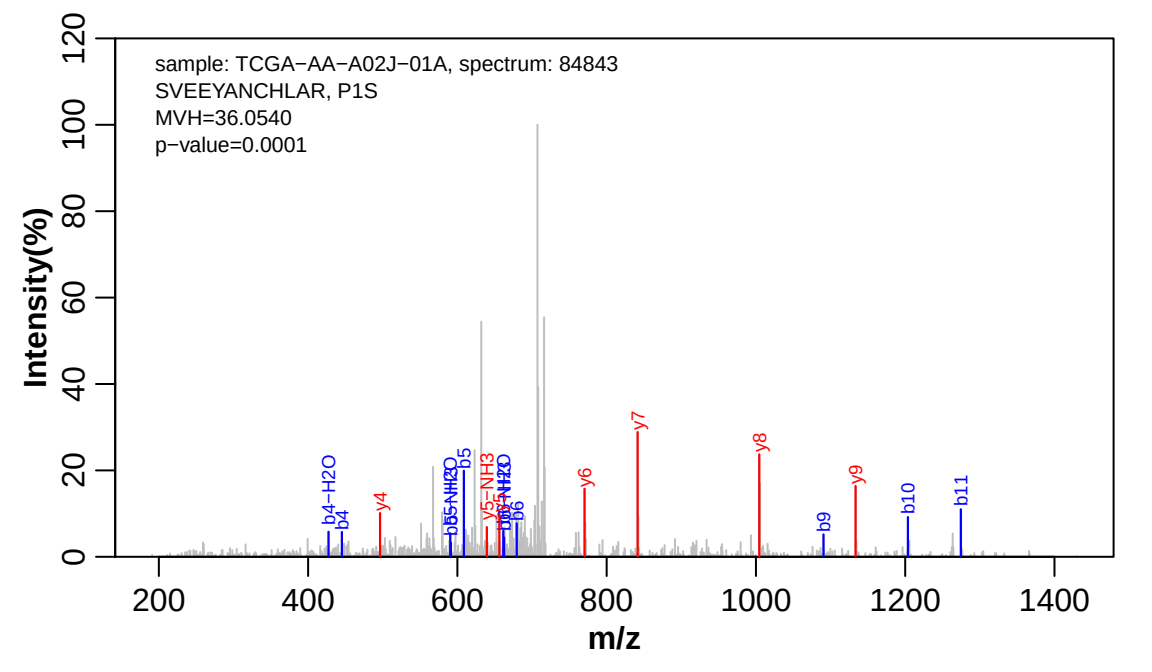

sample: TCGA−AA−A02J−01A, spectrum: 100054
QLTVGVPR, K8R
MVH=27.4258
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
y4−NH3
y4
b6−NH3
y6

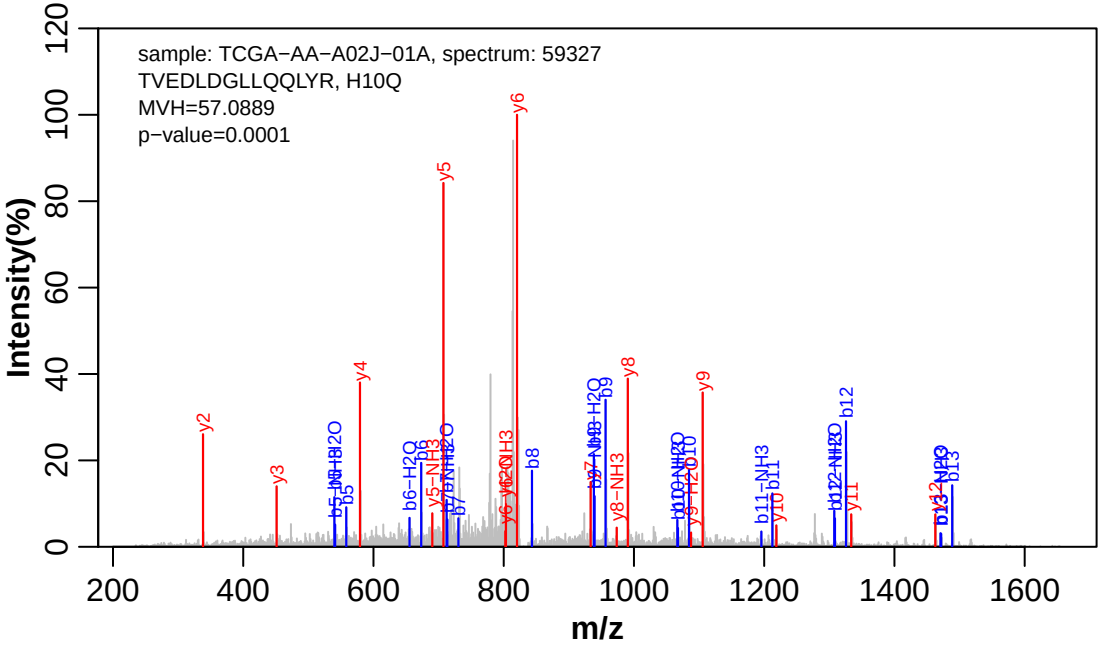

sample: TCGA−AA−A02J−01A, spectrum: 110485
SAVGELSEDSSNVVHLLK, Q15H
MVH=28.4438
p−value=0.0001
y15++
y16++
y11++−H2O
y11++−NH3
y12++
y13++
y14++
b3
b8++
b6
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

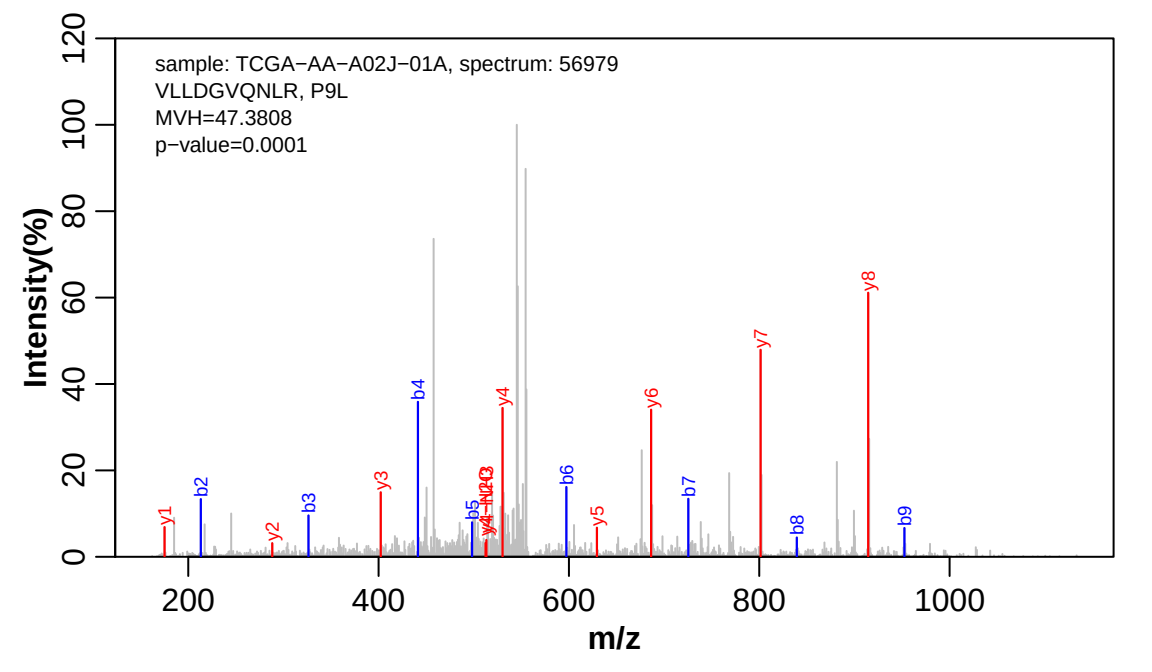

sample: TCGA−AA−A02J−01A, spectrum: 43037
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=42.2131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5−NH3
b5
b6
y6
y7
y8
b8
b9
y10
y10−H2O
b11
y12
b12−H2O
y13
b14
y15
y15−NH3
y16
b18

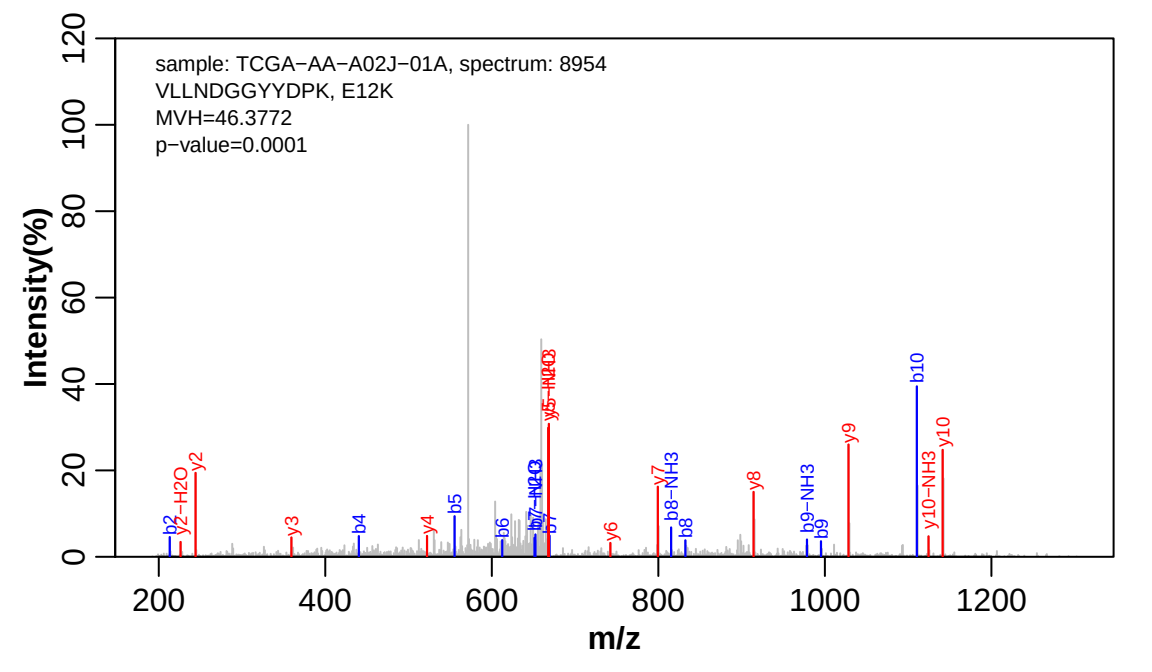

sample: TCGA−AA−A02J−01A, spectrum: 28207
SELPLDPLPLPTEEGNPLLK, V10L
MVH=55.1048
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6
b6−H2O
b8
b8−H2O
b10
y10
y12
y14
y15

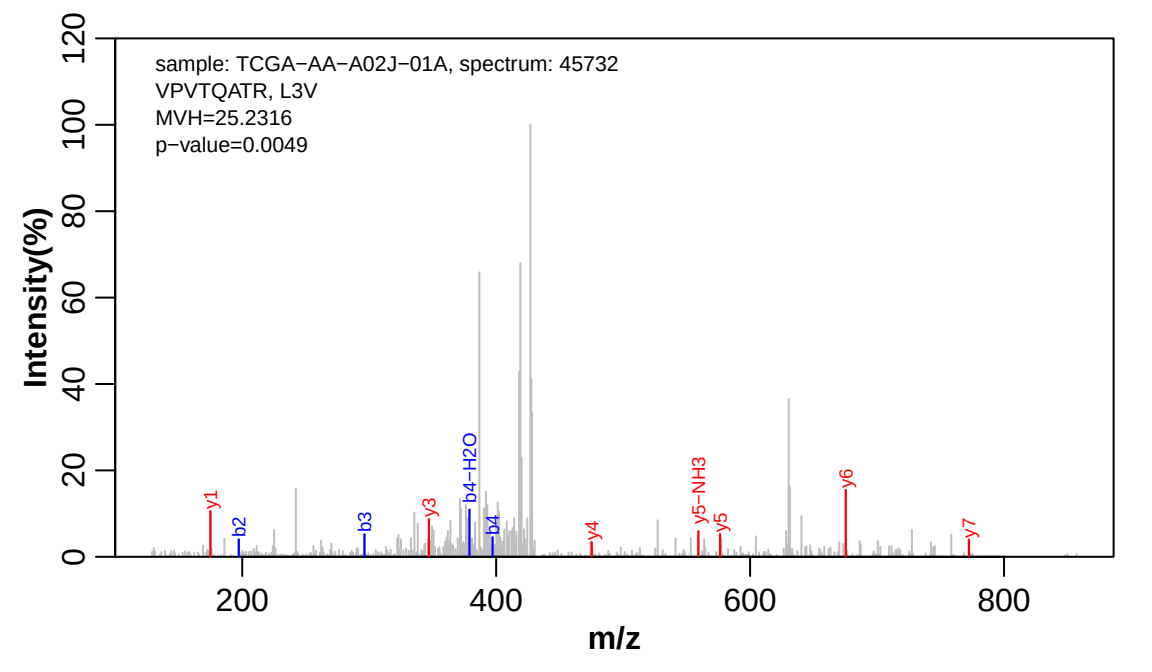

sample: TCGA−AA−A02J−01A, spectrum: 46934
SPADPTDLGGQTSPR, I6T
MVH=31.0065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11
y7
b4
b4−H2O
b7
b6−H2O
b6−NH3
y6−NH3
y8
y2
y4
b9
y9
y10
b12
b13−H2O
b13
y12

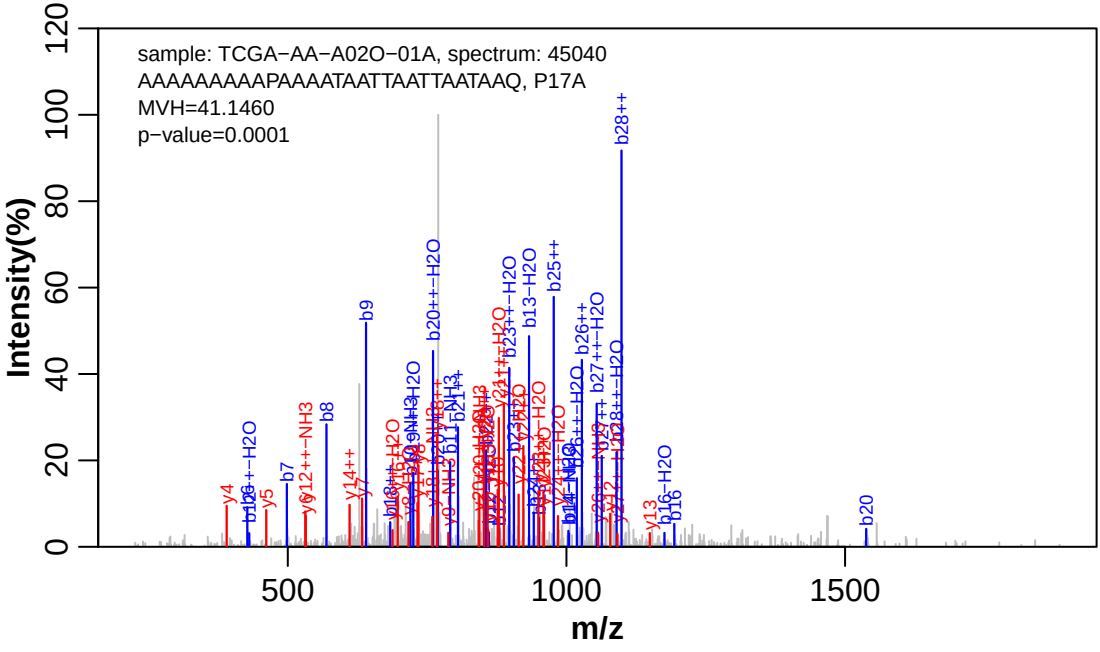

sample: TCGA−AA−A02J−01A, spectrum: 84843
SVEEYANCHLAR, P1S
MVH=36.0540
p−value=0.0001
Intensity(%)
m/z
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
b6−NH3
b6−H2O
b6
y6
y7
y8
b9
y9
b10
b11

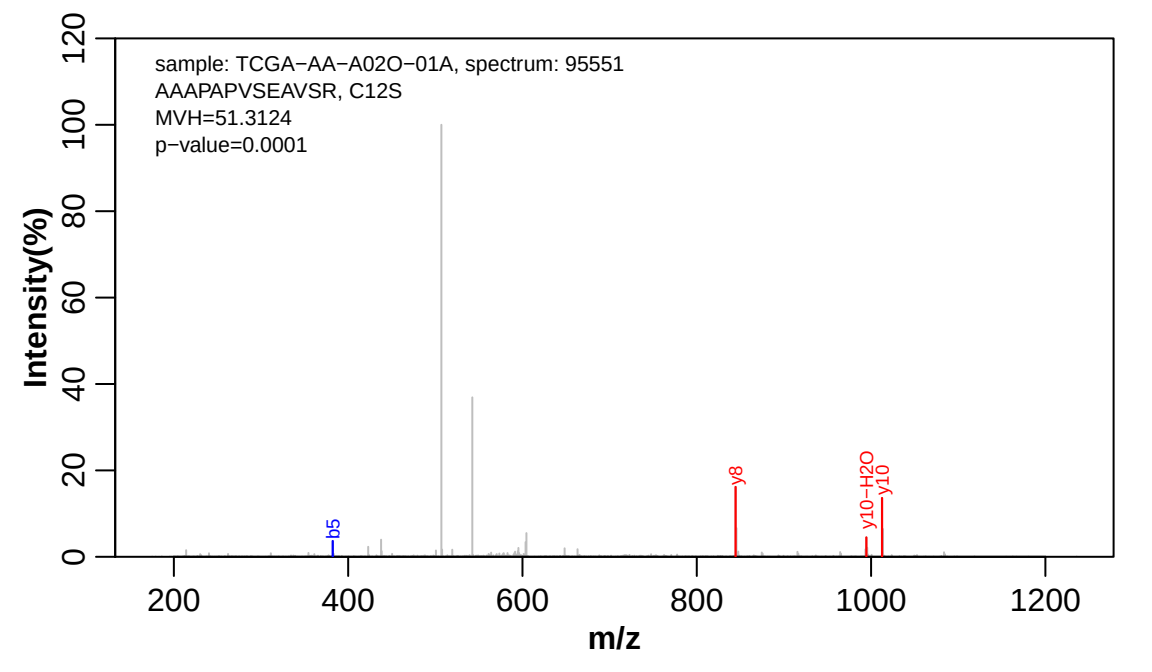

sample: TCGA−AA−A02J−01A, spectrum: 59327
TVEDLDGLLQQLYR, H10Q
MVH=57.0889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
y6
y8
y9
b5
b6−H2O
b8
b9
b11−NH3
b12
b13
y8−NH3
y9−H2O
y10
y11

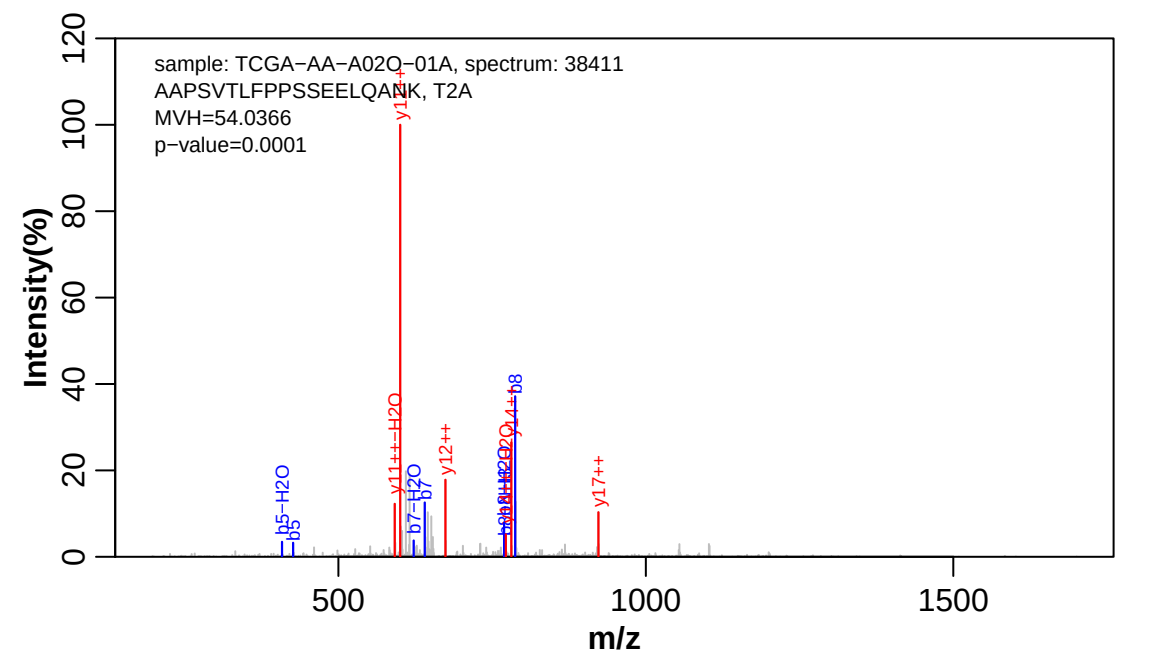

sample: TCGA−AA−A02J−01A, spectrum: 56979
VLLDGVQNLR, P9L
MVH=47.3808
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
y4−NH3
y4−H2O
b6
y5
y6
b7
y7
b8
y8
b9

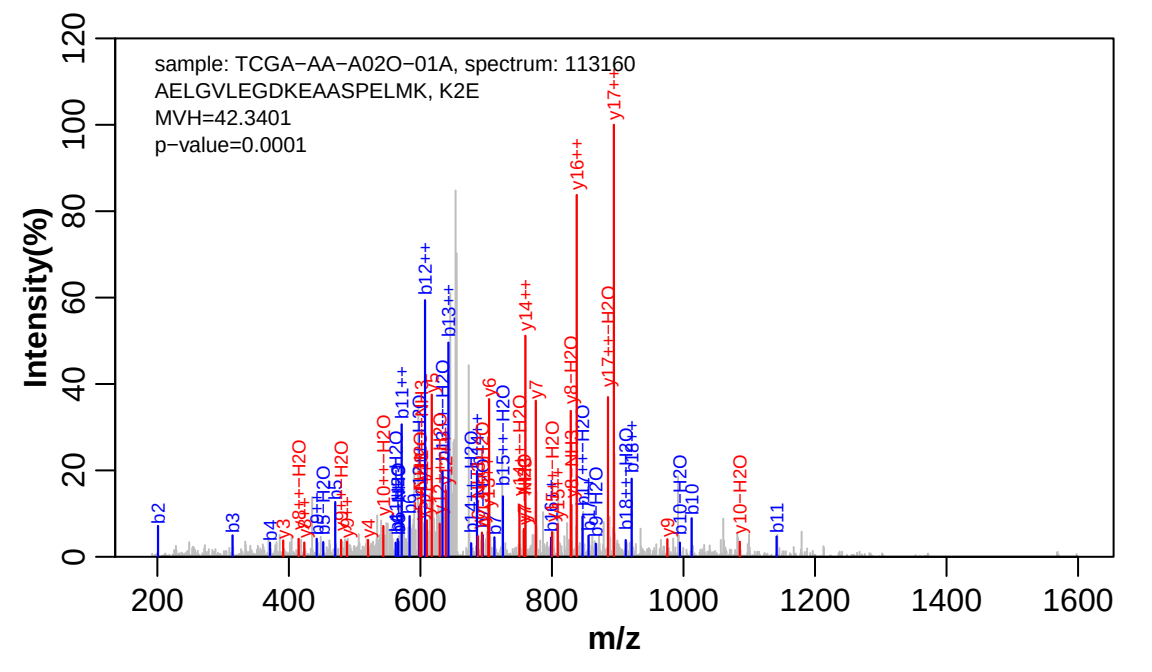

sample: TCGA−AA−A02J−01A, spectrum: 8954
VLLNDGGYYDPK, E12K
MVH=46.3772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−H2O
y2
y3
b4
y4
b5
b6
y6
b8
b8−NH3
y7
y8
b9
b9−NH3
y9
b10
y10
y10−NH3

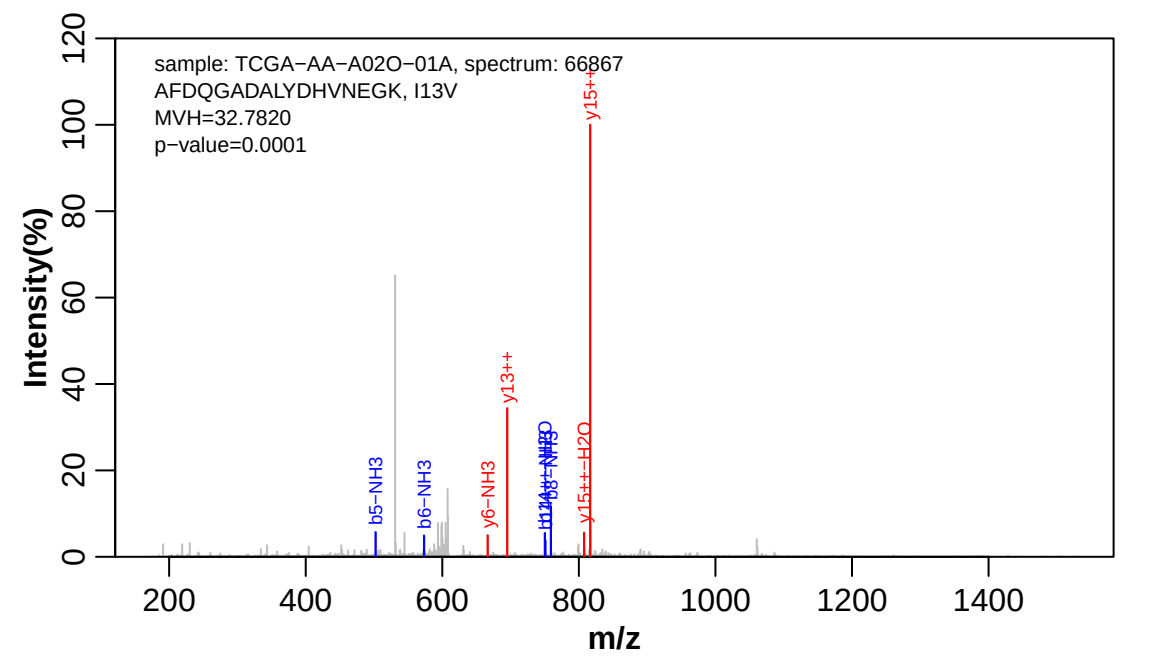

sample: TCGA−AA−A02J−01A, spectrum: 45732
VPVTQATR, L3V
MVH=25.2316
p−value=0.0049
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
b4−H2O
b4
y4
y5−NH3
y5
y6
y7

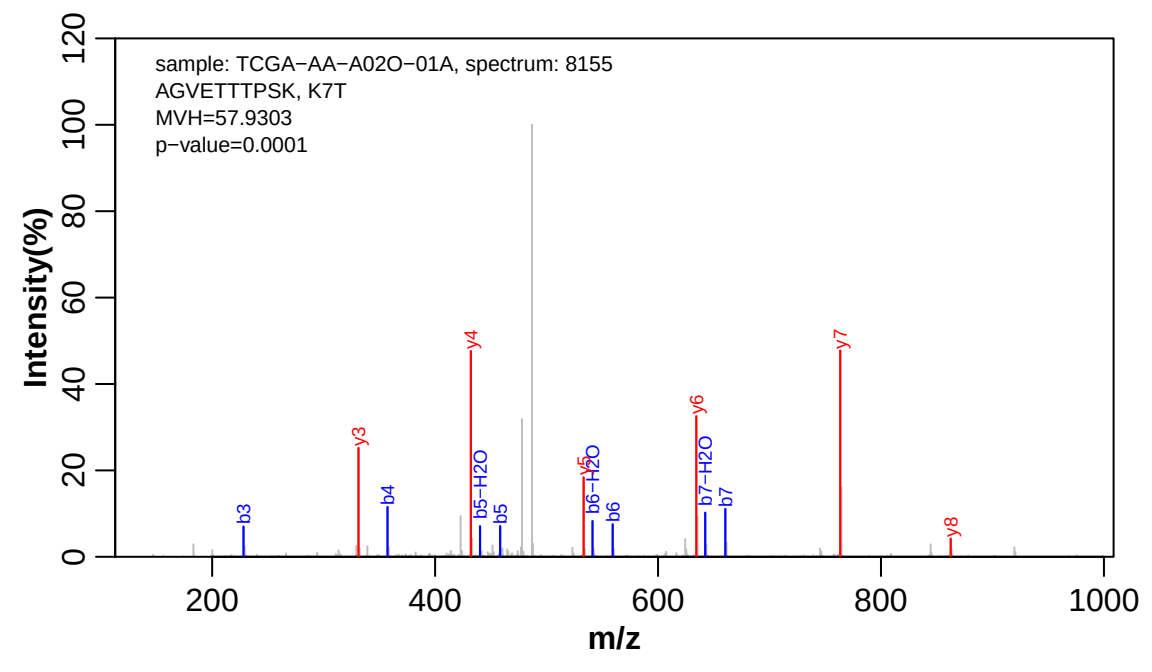

sample: TCGA−AA−A02O−01A, spectrum: 45040
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=41.1460
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++−H2O
b9
b25++
b13−H2O
b8
y4
b7
y5
y12++−NH3
y14++
y7
b16−H2O
b16
y13
b2O

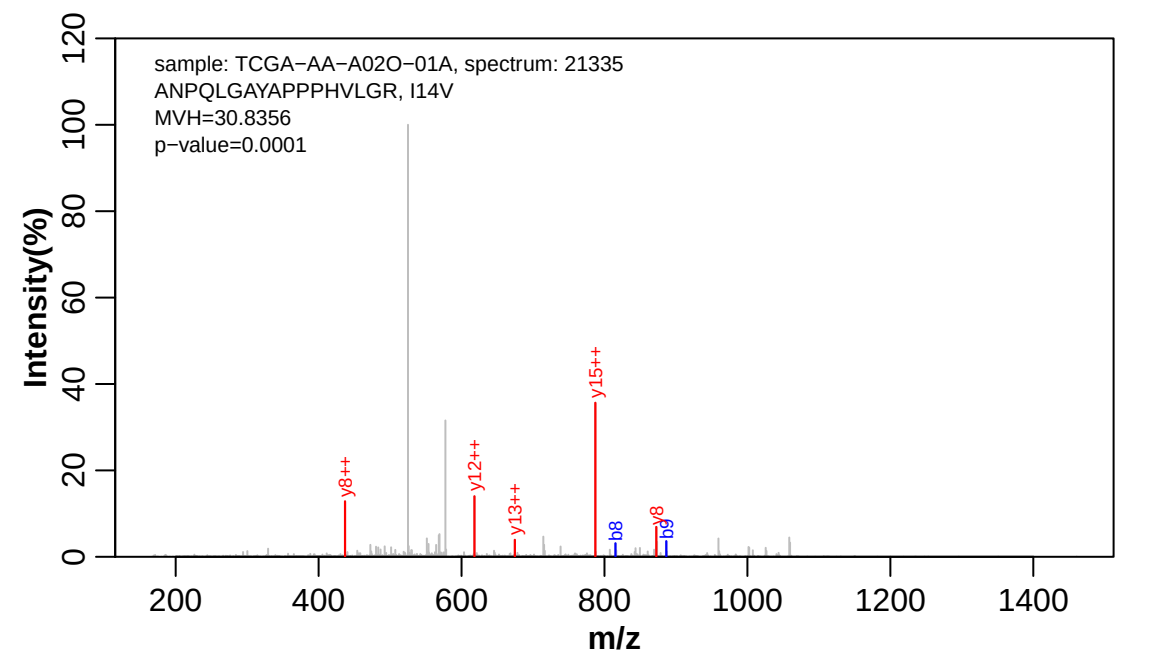

sample: TCGA−AA−A02O−01A, spectrum: 95551
AAAPAPVSEAVSR, C12S
MVH=51.3124
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10−H2O
y10

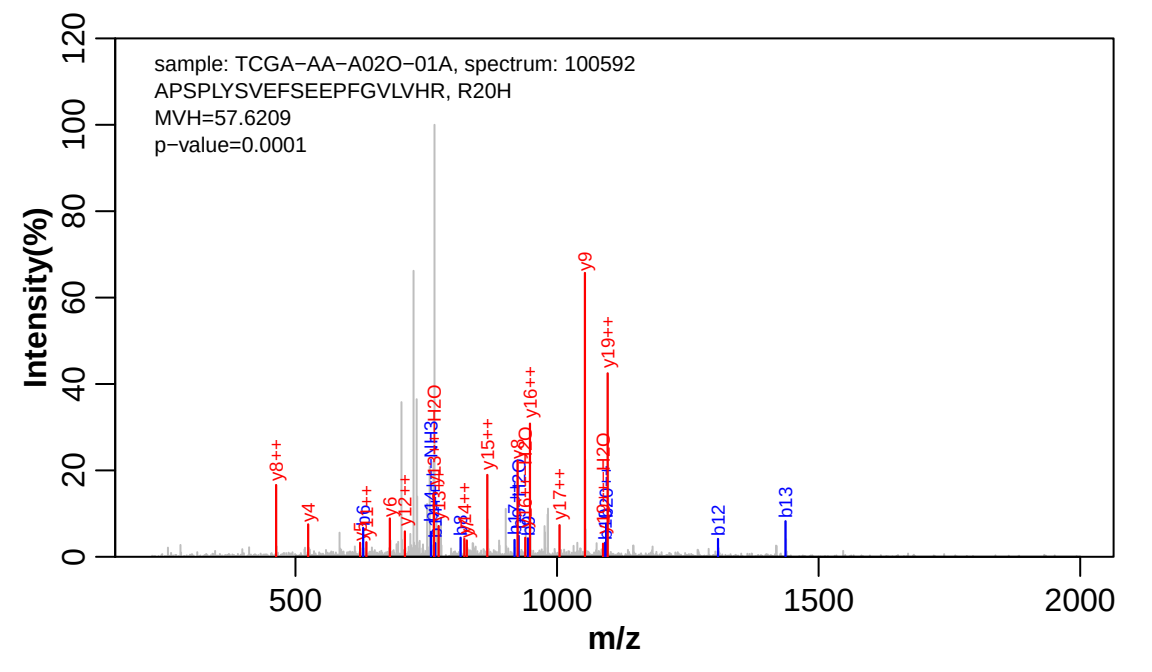

sample: TCGA−AA−A02O−01A, spectrum: 38411
AAPSVTLFPPSSEELQANK, T2A
MVH=54.0366
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y11++−H2O
y12++
y17++
b5−H2O
b5
b7−H2O
b7
b8

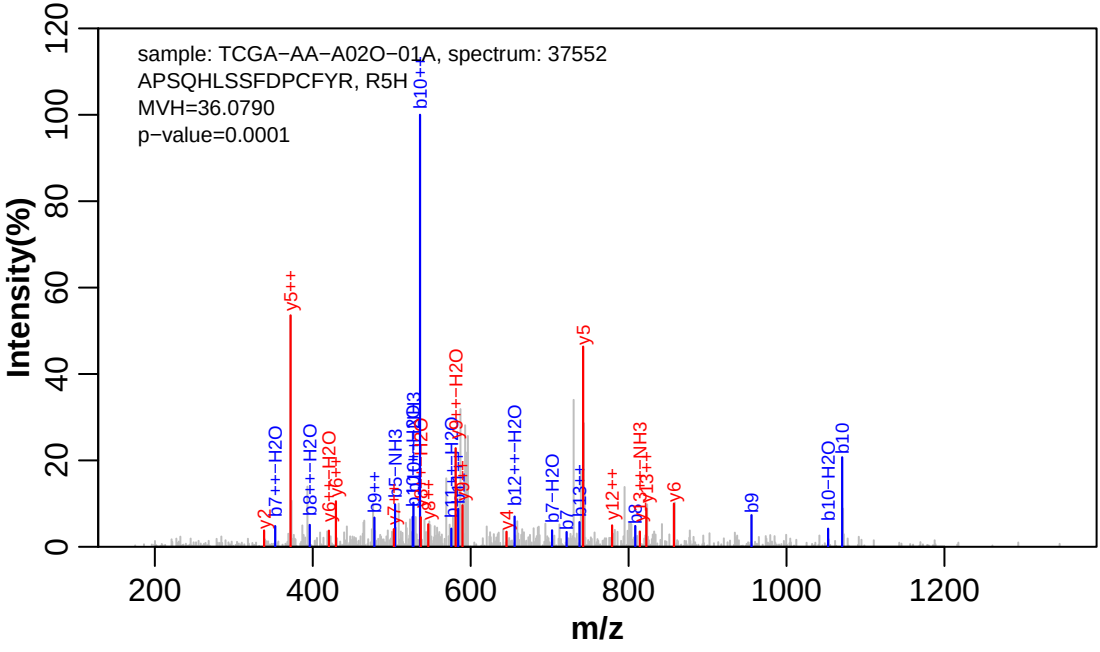

sample: TCGA−AA−A02O−01A, spectrum: 113160
AELGVLEGDKEAASPELMK, K2E
MVH=42.3401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3
b4
y3
b5
y4
b11++
b12++
b13++
y14++
y16++
y17++
y17++−H2O
y10−H2O
b11

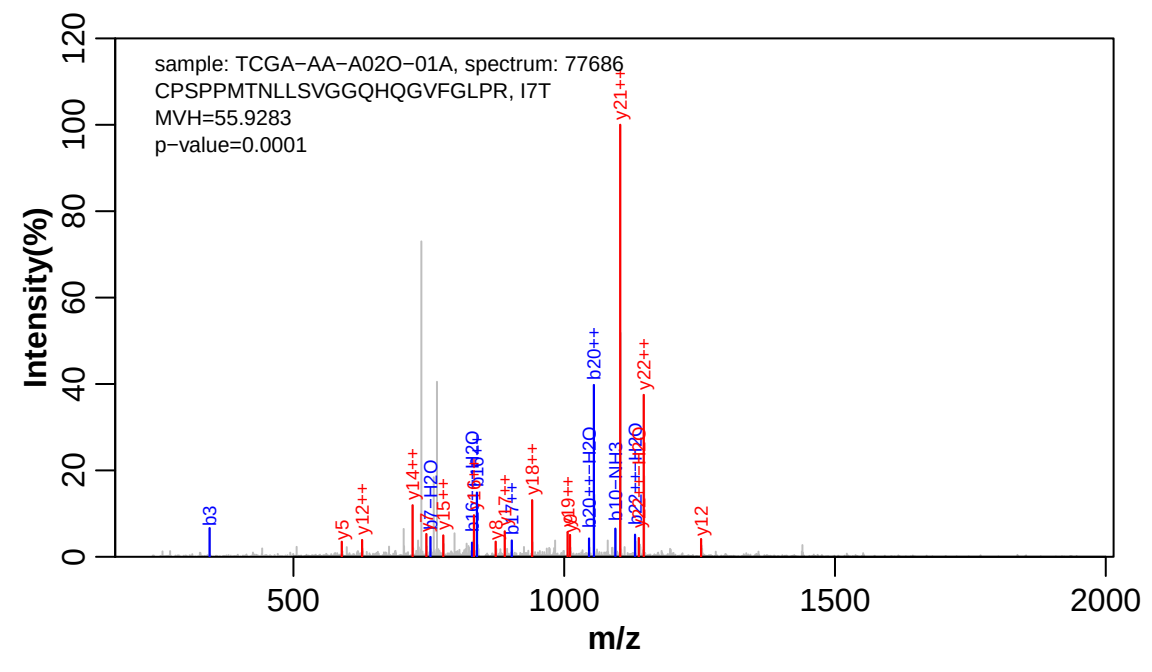

sample: TCGA−AA−A02O−01A, spectrum: 66867
AFDQGADALYDHVNEGK, I13V
MVH=32.7820
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5−NH3
b6−NH3
y6−NH3
y13++
y15++
y15++−H2O

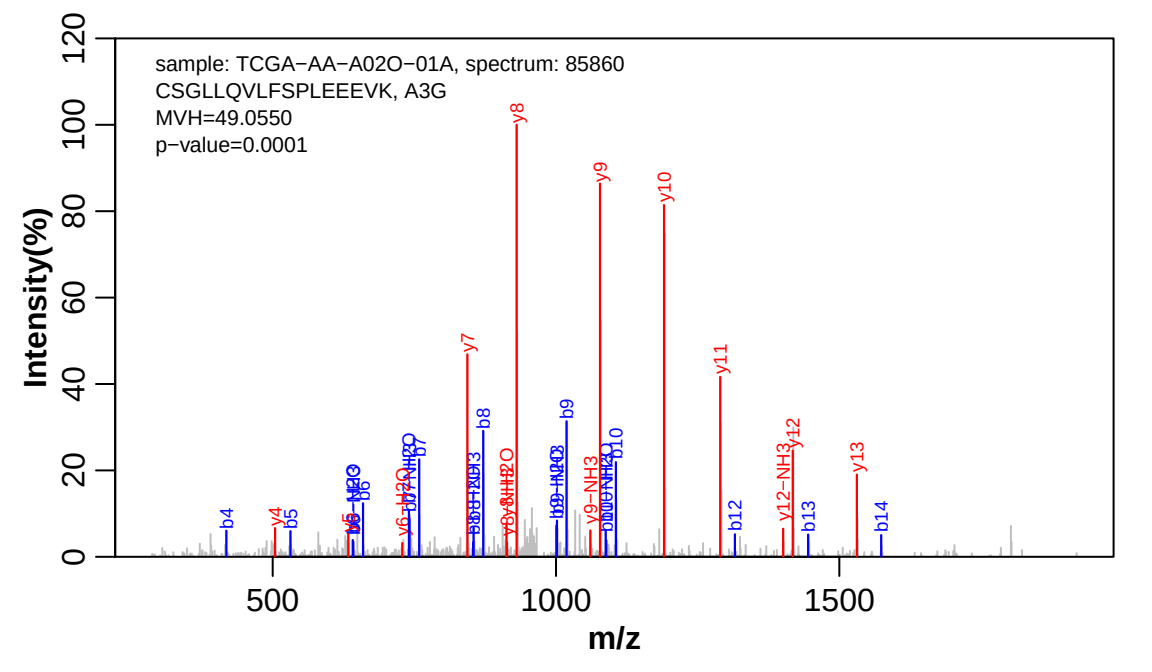

sample: TCGA−AA−A02O−01A, spectrum: 8155
AGVETTTPSK, K7T
MVH=57.9303
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

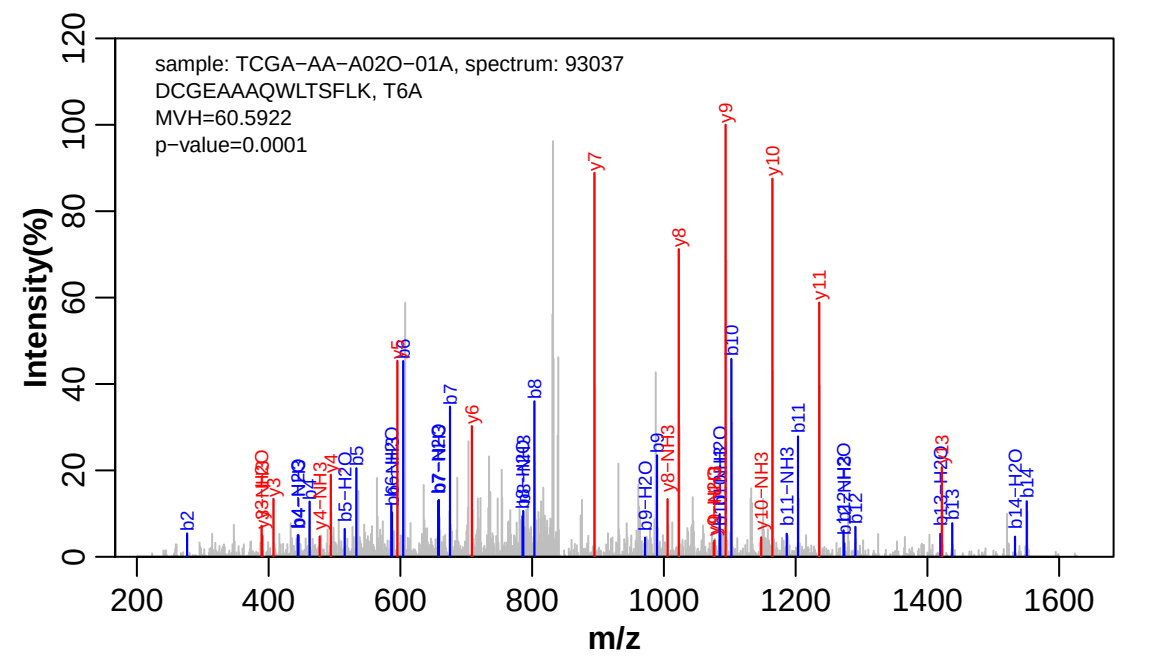

sample: TCGA−AA−A02O−01A, spectrum: 21335
ANPQLGAYAPPPHVLGR, I14V
MVH=30.8356
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y8++
y12++
y13++
y15++
b8
y8
b9

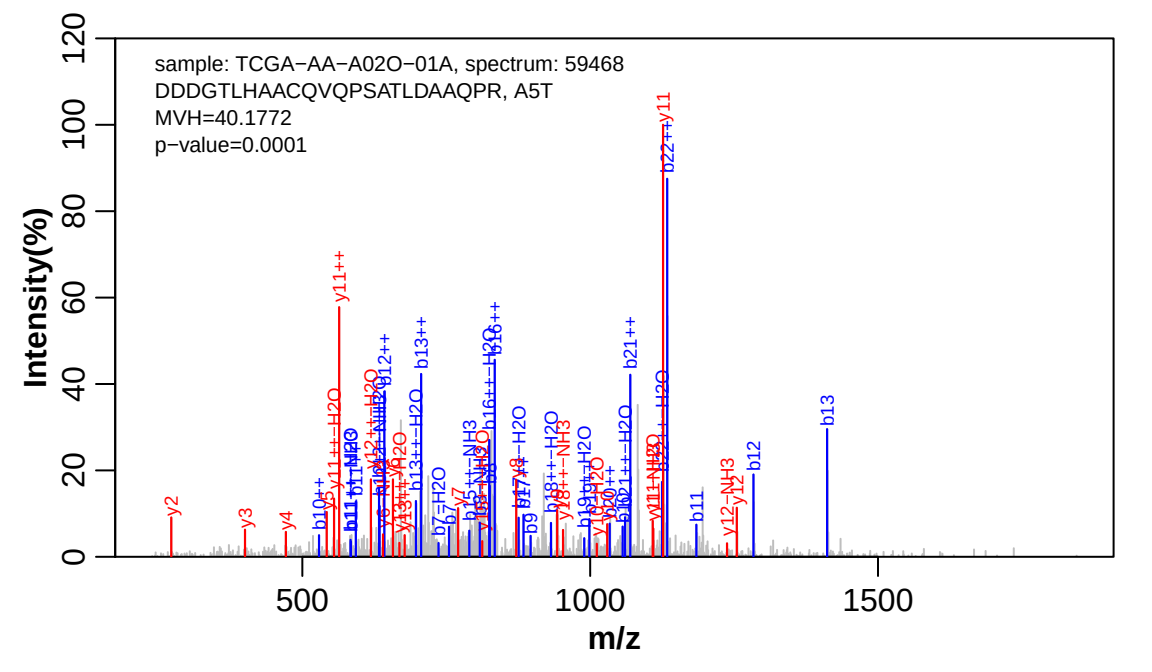

sample: TCGA−AA−A02O−01A, spectrum: 100592
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=57.6209
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8++
y4
y5++
y6
y12++
y15++
y16++
y17++
y9
y19++
b12
b13

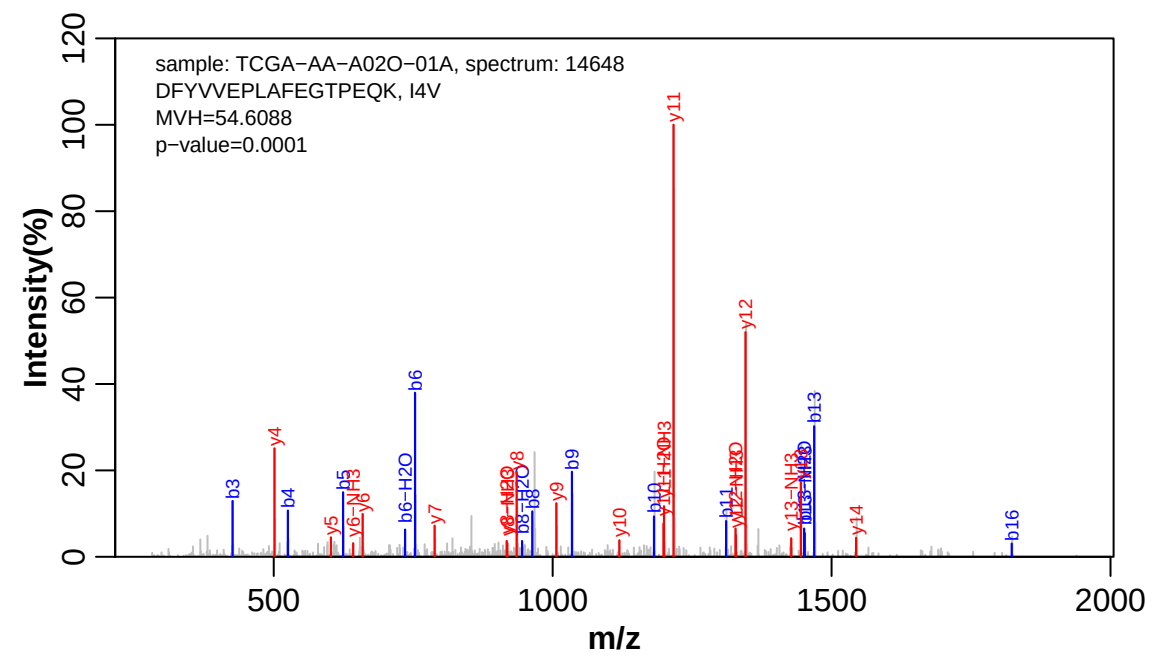

sample: TCGA−AA−A02O−01A, spectrum: 37552
APSQHLSSFDPCFYR, R5H
MVH=36.0790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b10++
y5++
y5
b7++−H2O
b8++−H2O
y6++−H2O
b12++−H2O
b7−H2O
b13++
y12++
y6
b9
b10−H2O
b10
y2
b9++
y7−NH3
y7
b11++−H2O
y9++−H2O
y8++
y8++−H2O
y8++−NH3
y8++
b12++
y4
y13++−NH3
b8
b7
y13++

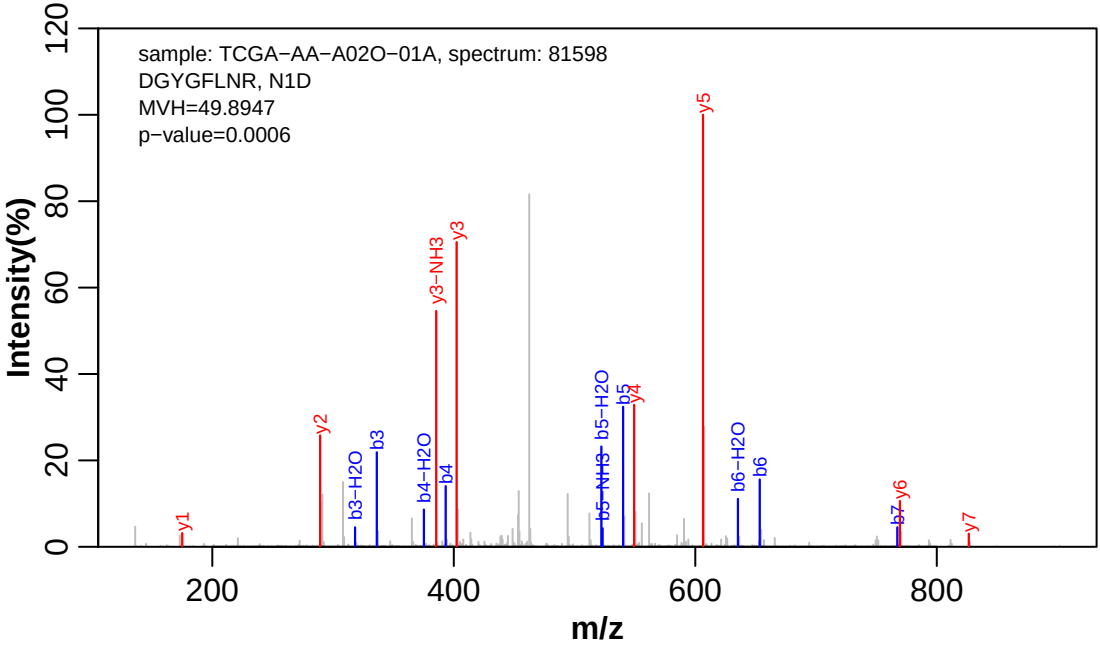

sample: TCGA−AA−A02O−01A, spectrum: 77686
CPSPPMTNLLSVGGQHQGVFGLPR, I7T
MVH=55.9283
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3
y5
y12++
y14++
y7−H2O
y15++
b16−H2O
b16−NH3
y8
b17++
y18++
y19++
b20++−H2O
b20++
b10−NH3
y22++−H2O
y22++
y12

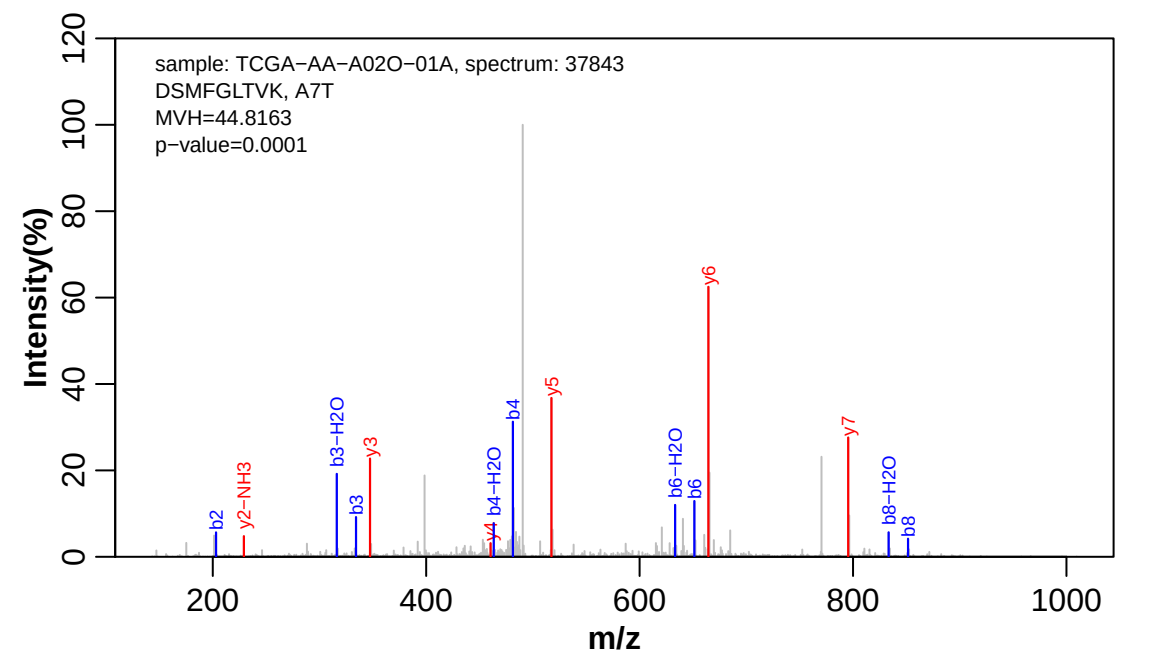

sample: TCGA−AA−A02O−01A, spectrum: 85860
CSGLLQVLFSPLEEEVK, A3G
MVH=49.0550
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y4
b5
y5
b6
y6−H2O
b7
y7
b8
y8
b9
y9−NH3
b10
y9
y10
y11
b12
y12−NH3
y12
b13
y13
b14

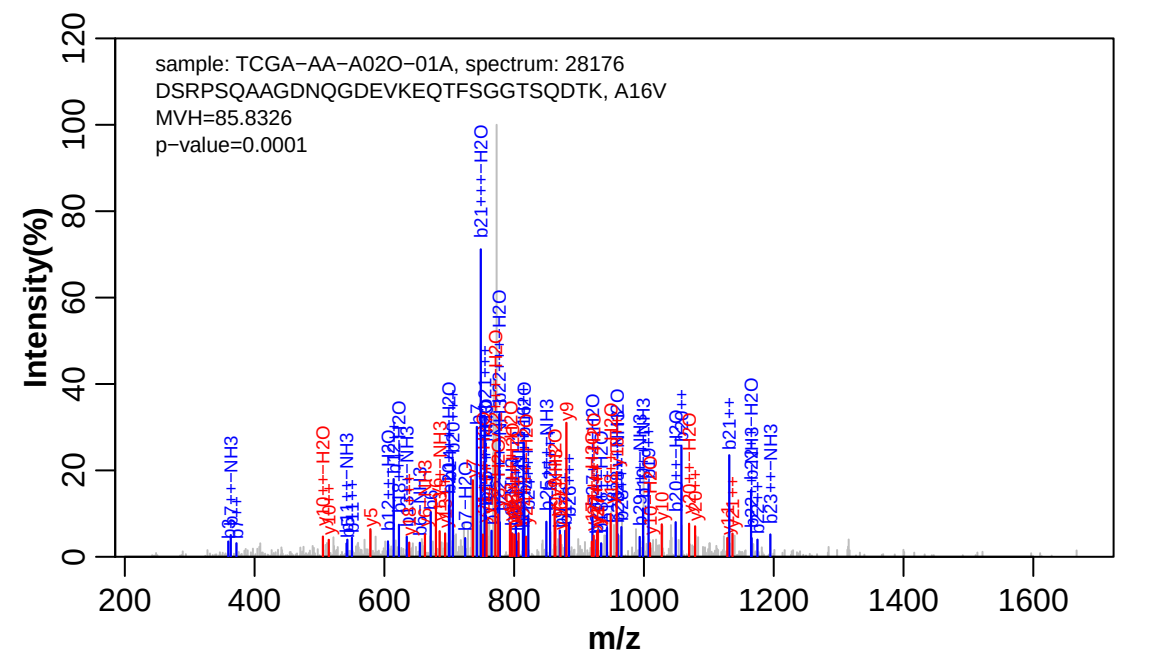

sample: TCGA−AA−A02O−01A, spectrum: 93037
DCGEAAAQWLTSFLK, T6A
MVH=60.5922
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
b4−NH3
y4−NH3
b5−H2O
b5
b6
y6
b7
b8
b9−H2O
y8−NH3
y7
y8
y9
b10
y10
y10−NH3
b11−NH3
b11
y11
b12
b13
b14−H2O
b14

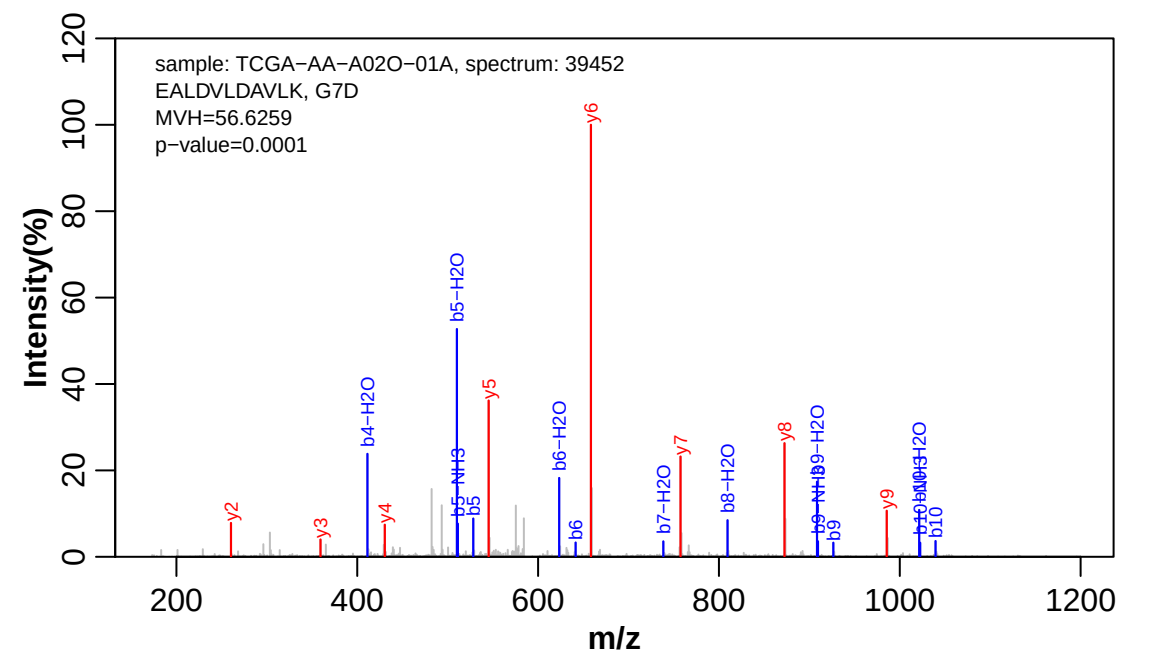

sample: TCGA−AA−A02O−01A, spectrum: 59468
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=40.1772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
b10++
y5
y11++−H2O
y11++
b11
b11−NH3
b11−H2O
y6
b12++
y12++−H2O
y12++
y13++
y13++−H2O
b13++−H2O
b13++
b7−H2O
b7
y7
b15++−NH3
b15++
b8
b16++−NH3
b16++−H2O
b16++
b17++−H2O
b9
b17++
b18++−NH3
b18++−H2O
b18++
y18++−NH3
b19++−H2O
b19++
y19++
b20++
b21++−H2O
b21++
y11++−NH3
y11++−H2O
b22++−H2O
b22++y11
b11
y12−NH3
y12
b12
b13

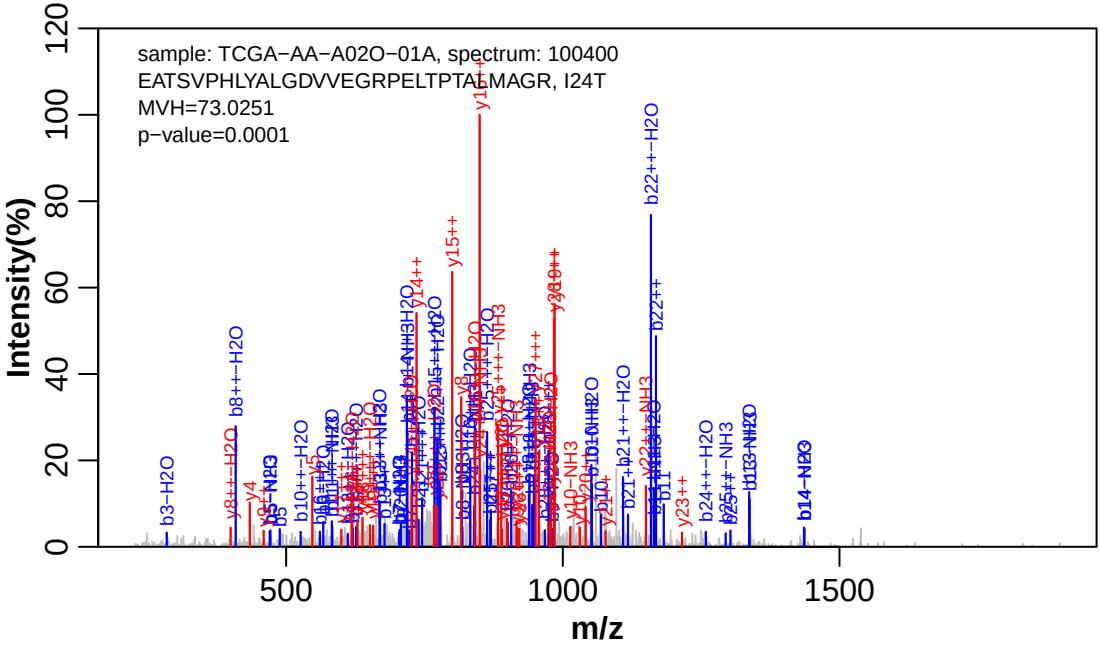

sample: TCGA−AA−A02O−01A, spectrum: 14648
DFYVVEPLAFEGTPEQK, I4V
MVH=54.6088
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
y12
b6
b6−H2O
b13
y4
b3
b4
y5
y6
y6−NH3
b5
y7
b8
b8−H2O
y9
b9
y10
b10
b11
y13−NH3
y14
b16

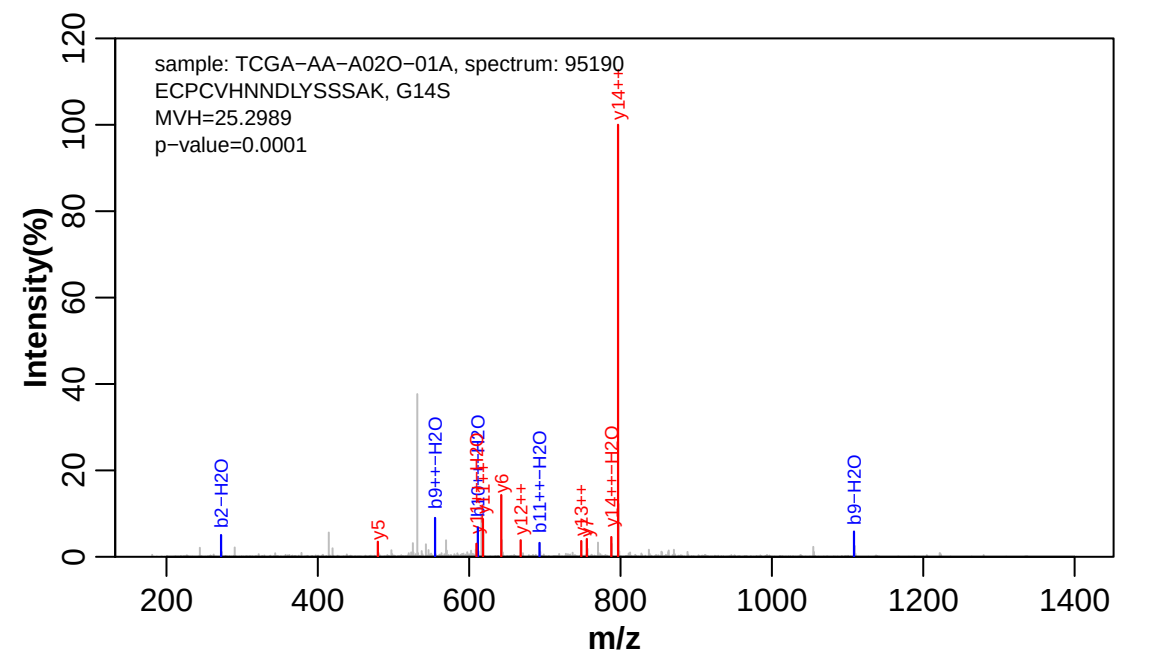

sample: TCGA−AA−A02O−01A, spectrum: 81598
DGYGFLNR, N1D
MVH=49.8947
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6
y7

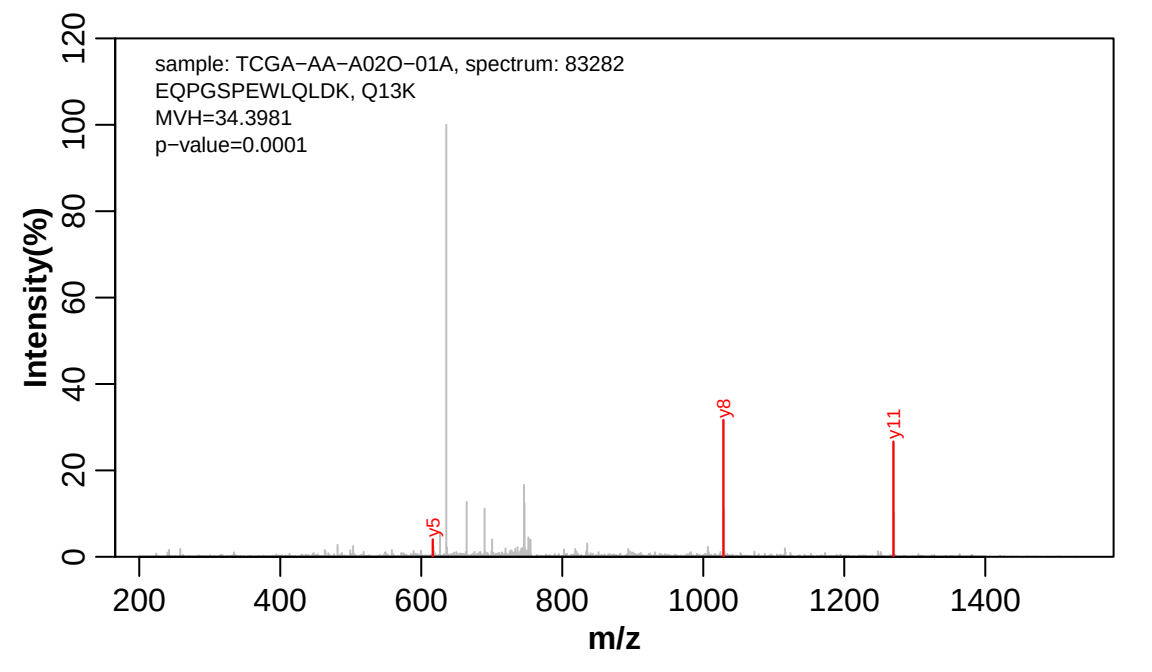

sample: TCGA−AA−A02O−01A, spectrum: 37843
DSMFGLTVK, A7T
MVH=44.8163
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2−NH3
b3−H2O
b3
y3
y4
b4−H2O
b4
y5
b6−H2O
b6
y6
y7
b8−H2O
b8

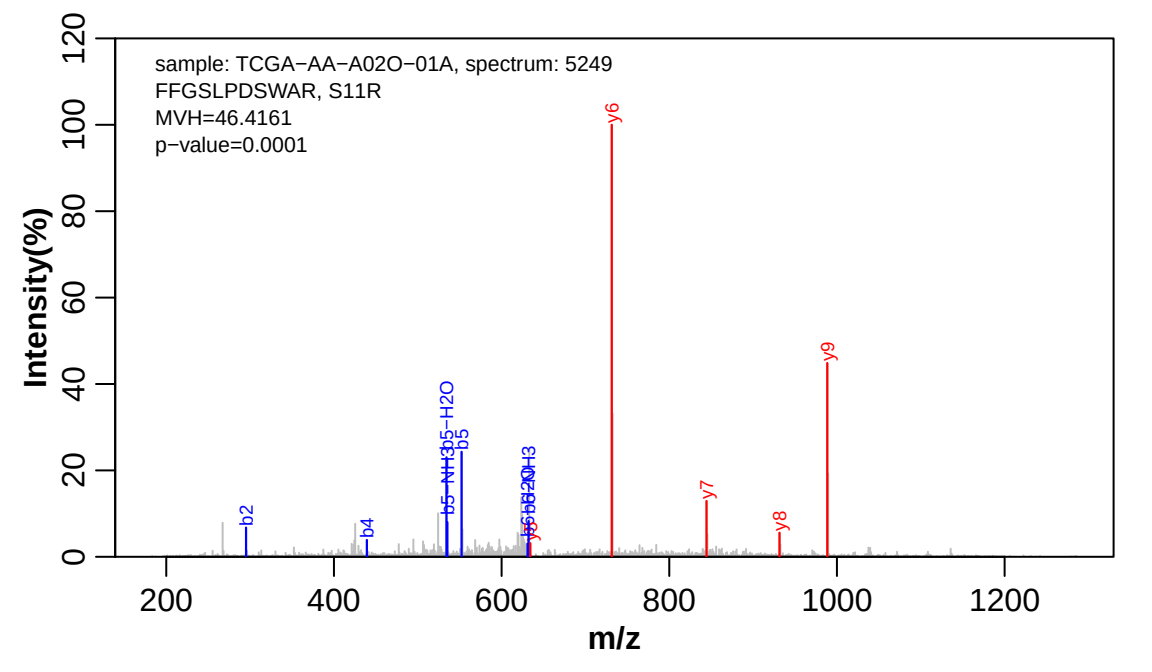

sample: TCGA−AA−A02O−01A, spectrum: 28176
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=85.8326
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b21++−H2O
b7++−NH3
y10++−H2O
b11++−NH3
y5
b12++−H2O
b7++−H2O
y9
b23++−NH3
b21++
y11++
b22++−H2O−NH3

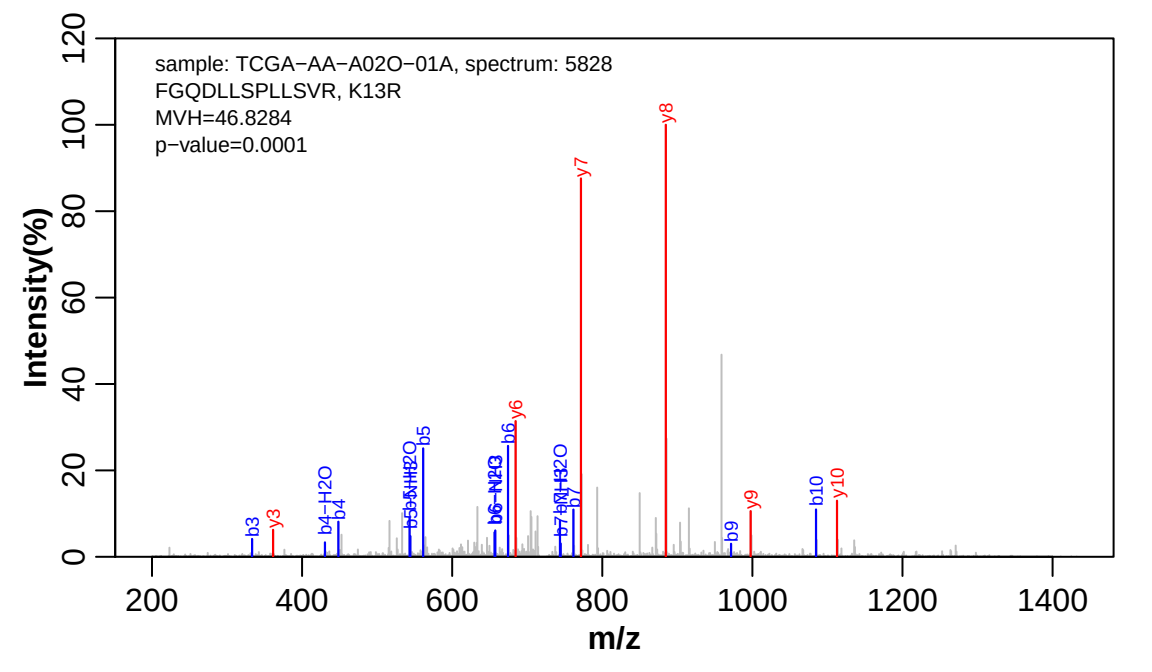

sample: TCGA−AA−A02O−01A, spectrum: 39452
EALDVLDAVLK, G7D
MVH=56.6259
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9−NH3
b9
y9
b10−H2O
b10

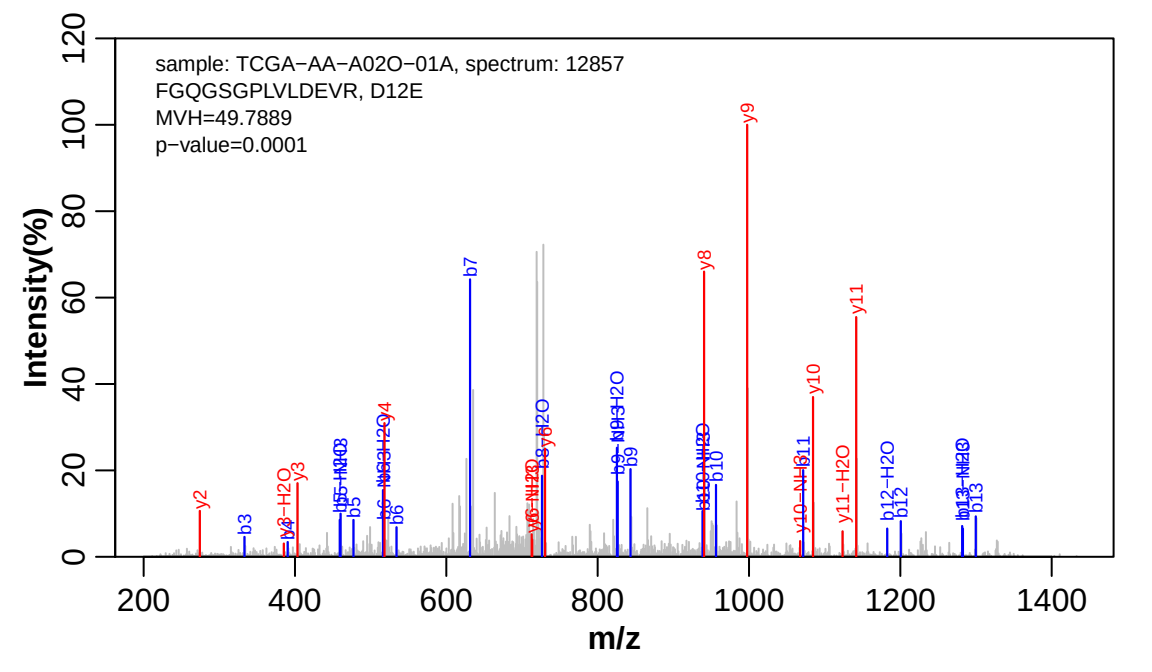

sample: TCGA−AA−A02O−01A, spectrum: 100400
EATSVPHLYALGDVVEGRPELTPTALMAGR, I24T
MVH=73.0251
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y8++−H2O
b8++−H2O
y4
b10++−H2O
y15++
y16++
b22++−H2O
b22++
y23++
b24++−H2O
b14−NH3

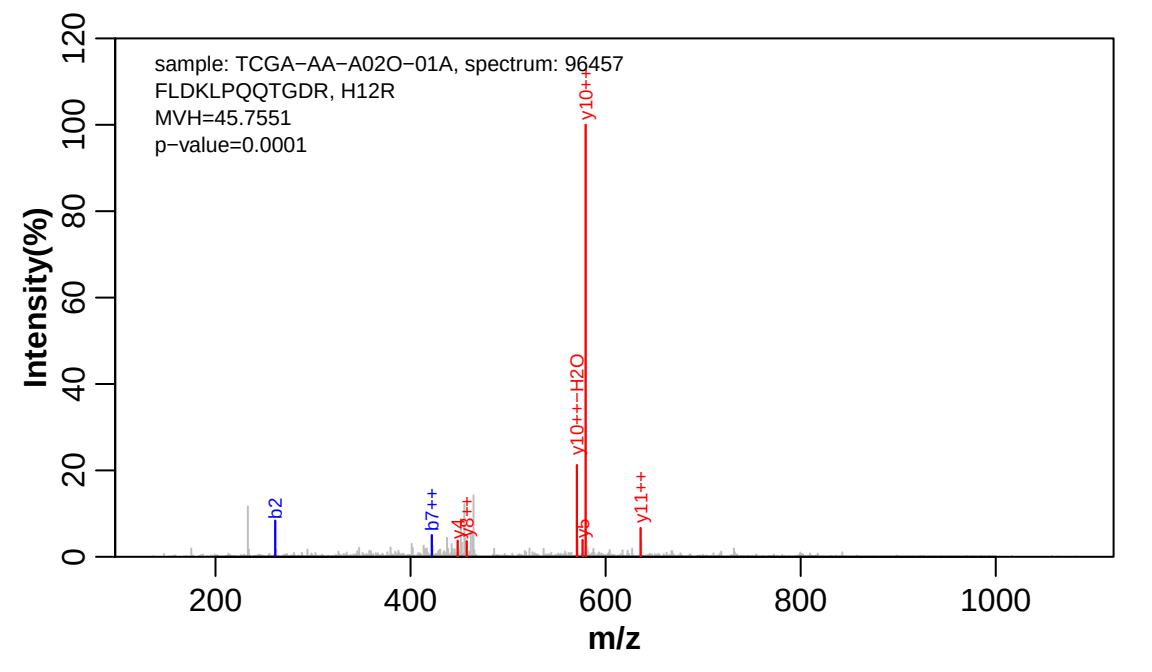

sample: TCGA−AA−A02O−01A, spectrum: 95190
ECPCVHNNDLYSSSAK, G14S
MVH=25.2989
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
y5
b9++−H2O
y6
y12++
b11++−H2O
y13++
y14+++−H2O
y14++
b9−H2O

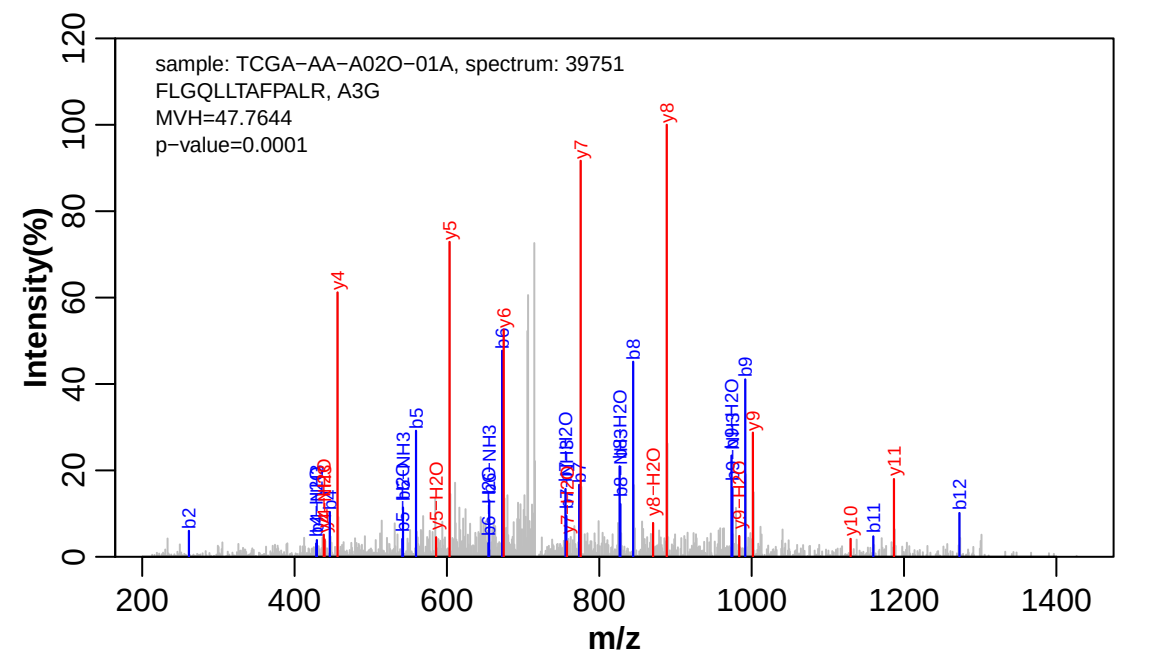

sample: TCGA−AA−A02O−01A, spectrum: 83282
EQPGSPEWLQLDK, Q13K
MVH=34.3981
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y5
y8
y11

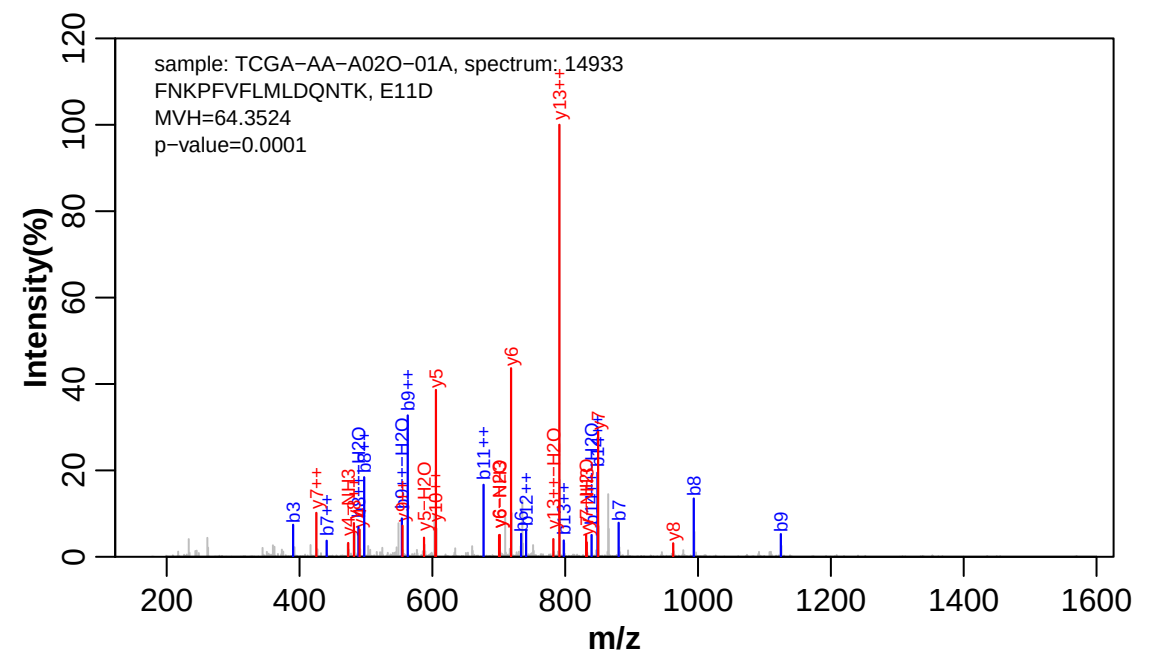

sample: TCGA−AA−A02O−01A, spectrum: 5249
FFGSLPDSWAR, S11R
MVH=46.4161
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
b5−H2O
b5
b5−NH3
y5−H2O
y5
y5−NH3

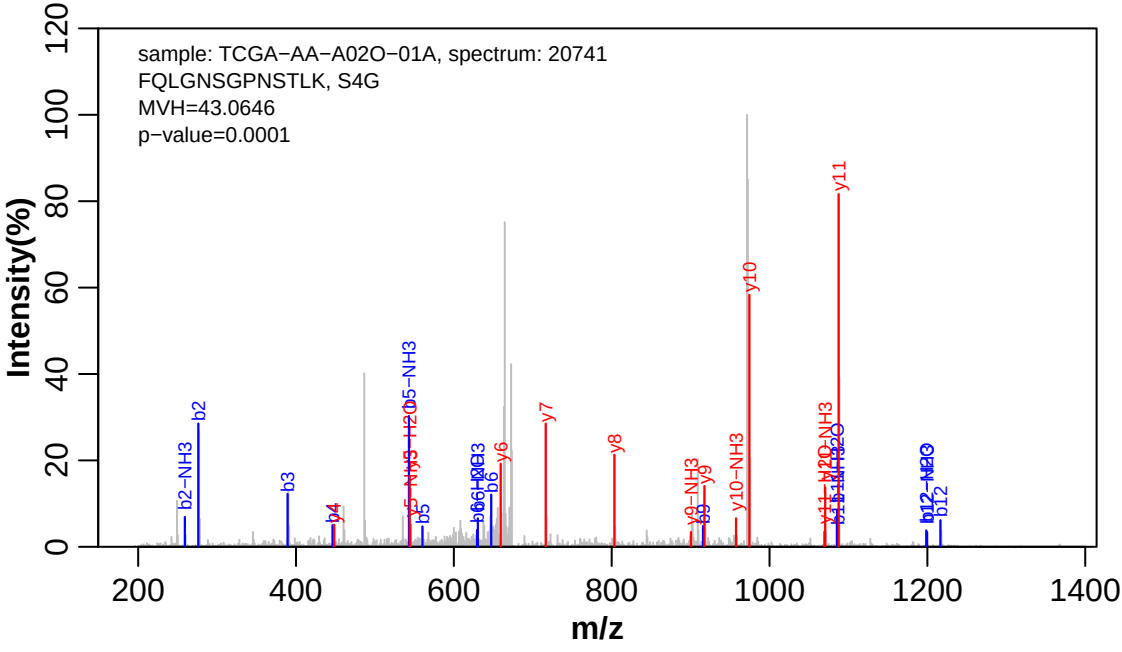

sample: TCGA−AA−A02O−01A, spectrum: 5828
FGQDLLSPLLSVR, K13R
MVH=46.8284
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
y7
y8
y9
b9
b10
y10

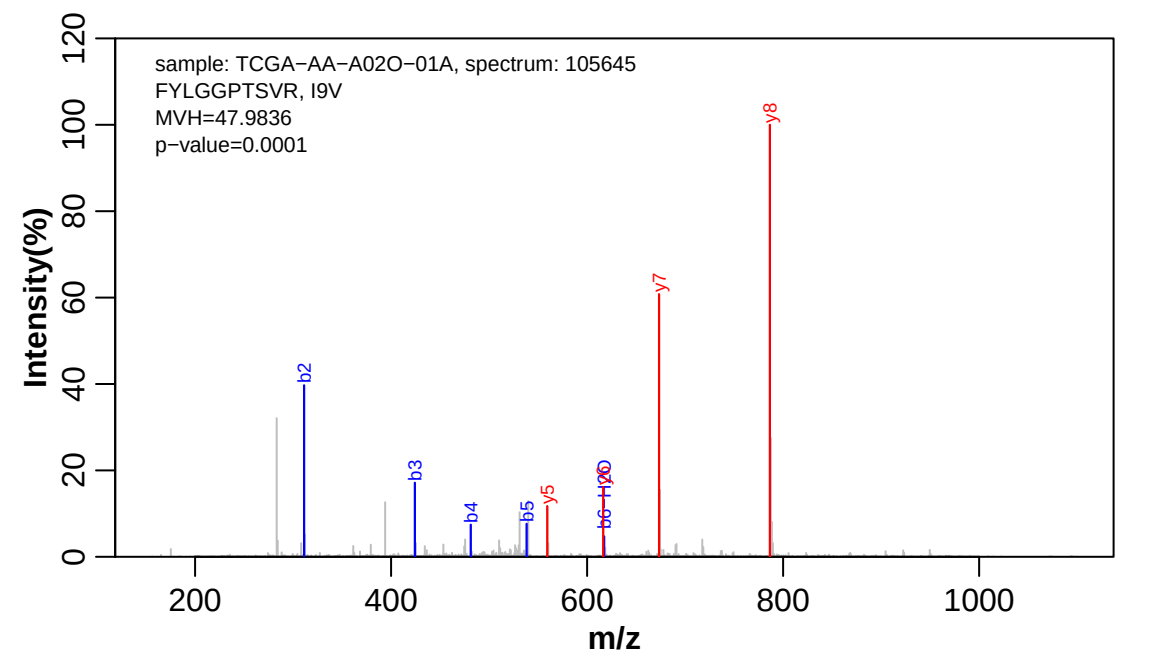

sample: TCGA−AA−A02O−01A, spectrum: 12857
FGQGSGPLVLDEVR, D12E
MVH=49.7889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b5
b6
b7
y9
y8
y11
y10
b12
b13

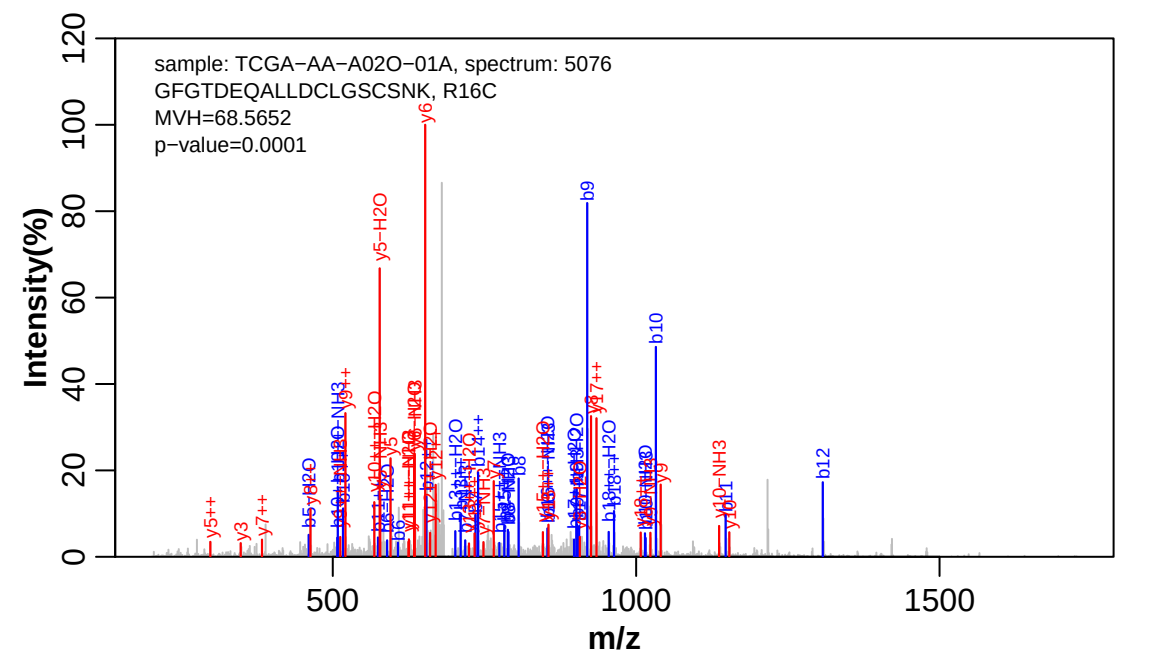

sample: TCGA−AA−A02O−01A, spectrum: 96457
FLDKLPQQTGDR, H12R
MVH=45.7551
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b7++
y4
y8++
y5
y10++−H2O
y10++
y11++

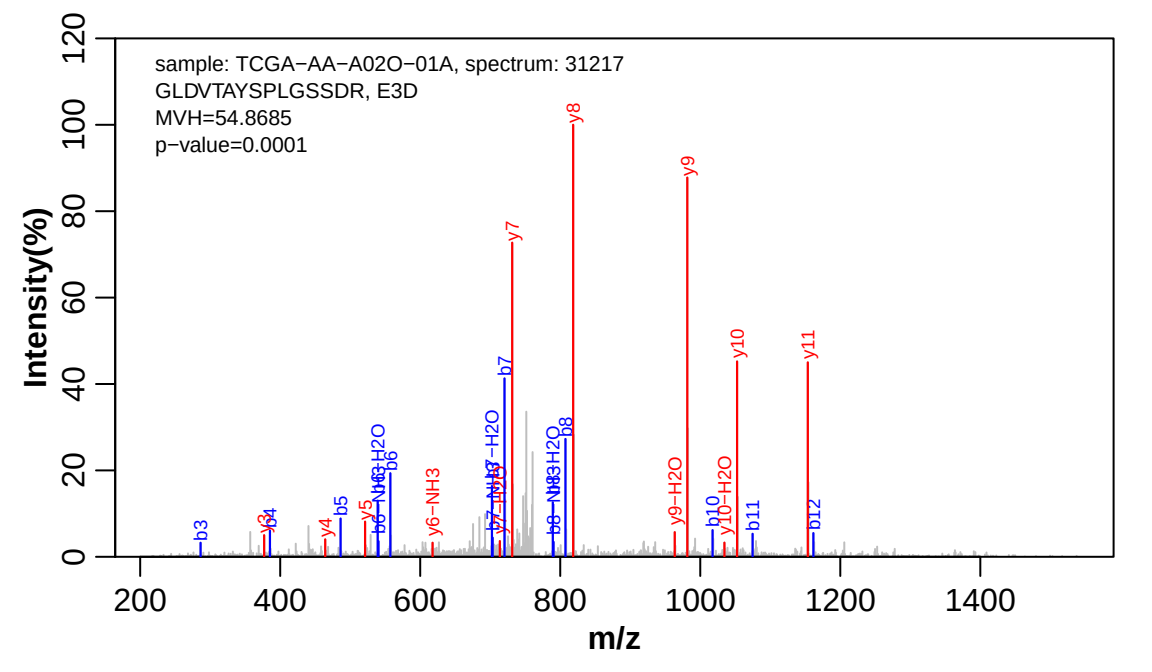

sample: TCGA−AA−A02O−01A, spectrum: 39751
FLGQLLTAFPALR, A3G
MVH=47.7644
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4
y5
y5−H2O
b5
y6
b6
y7
b8
y8
y8−H2O
b9
y9
y10
b11
y11
b12

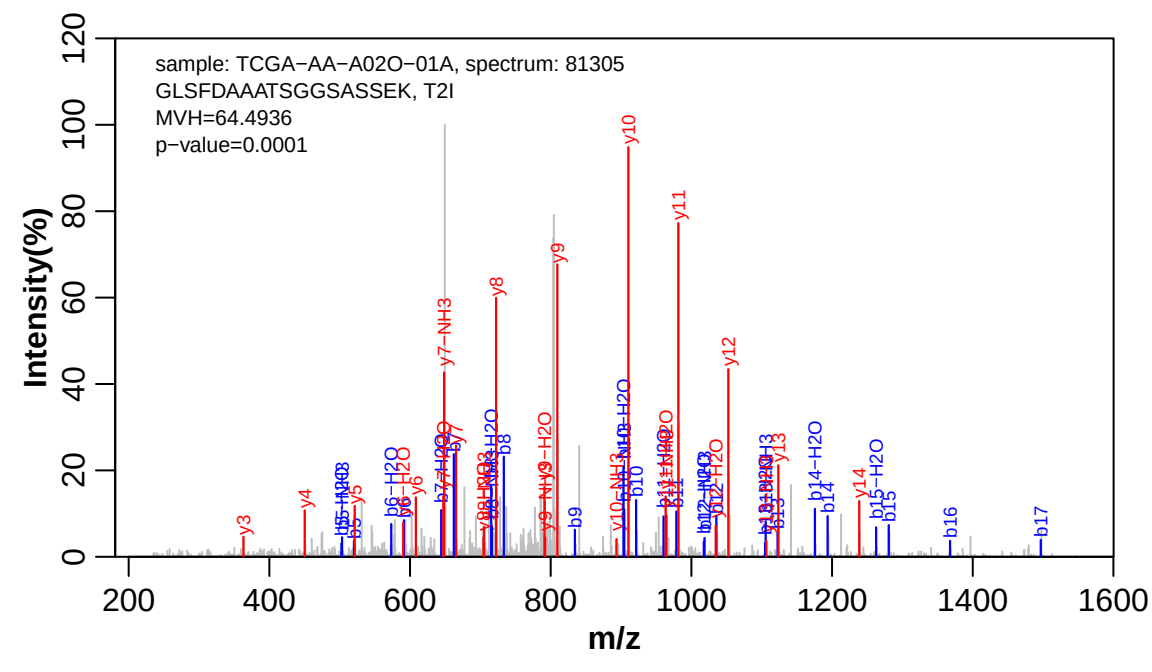

sample: TCGA−AA−A02O−01A, spectrum: 14933
FNKPFVFLMLDQNTK, E11D
MVH=64.3524
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
y6
y5
b9++
b11++
y7++
b3
b7++
b8
b7
y8
b9

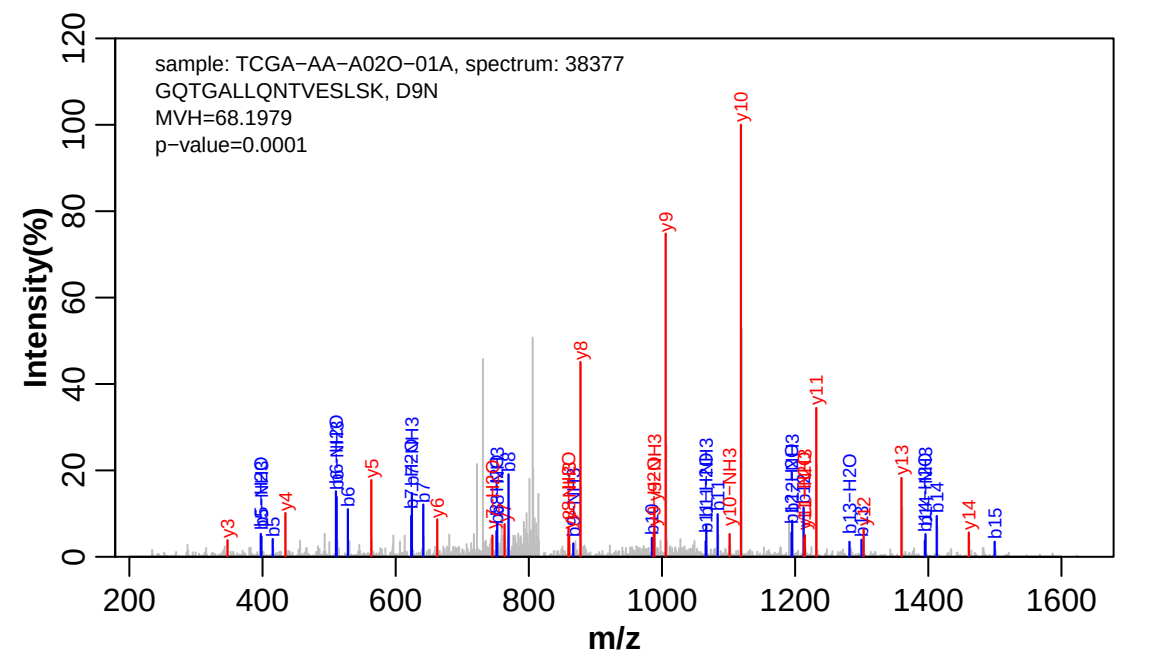

sample: TCGA−AA−A02O−01A, spectrum: 20741
FQLGNSGPNSTLK, S4G
MVH=43.0646
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b2−NH3
b3
b4
y5−NH3
y5−H2O
y5
b5
b6
y6
y7
y8
y9−NH3
y9
y10−NH3
y10
y11−NH3
y11−H2O
y11
b12−NH3
b12

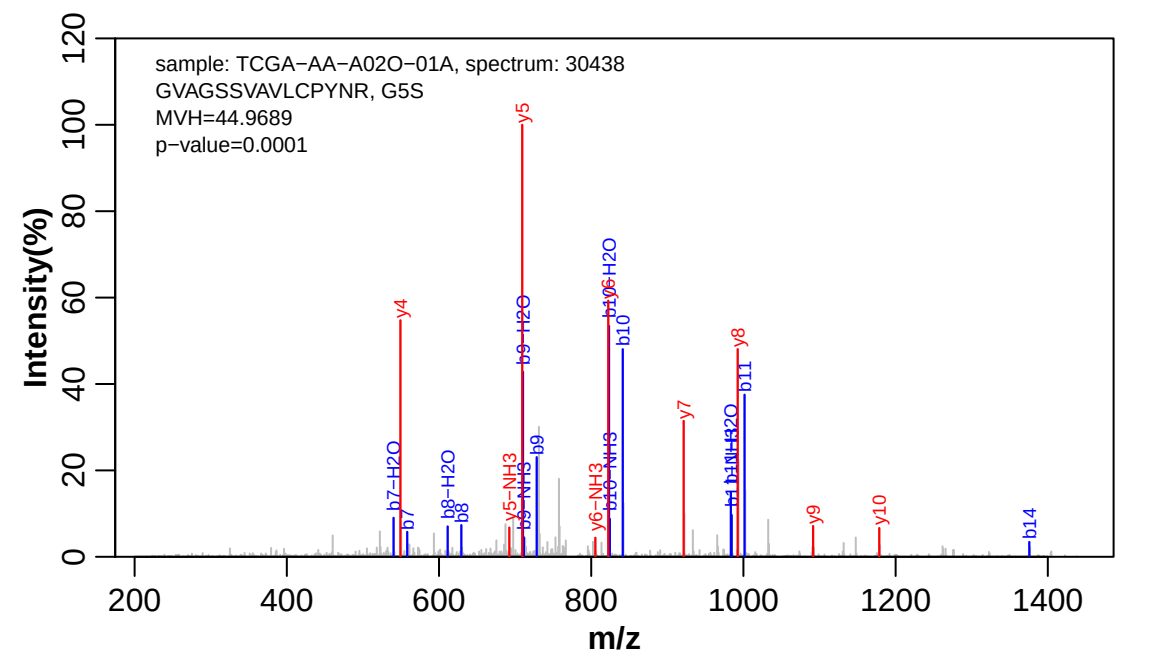

sample: TCGA−AA−A02O−01A, spectrum: 105645
FYLGGPTSVR, I9V
MVH=47.9836
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

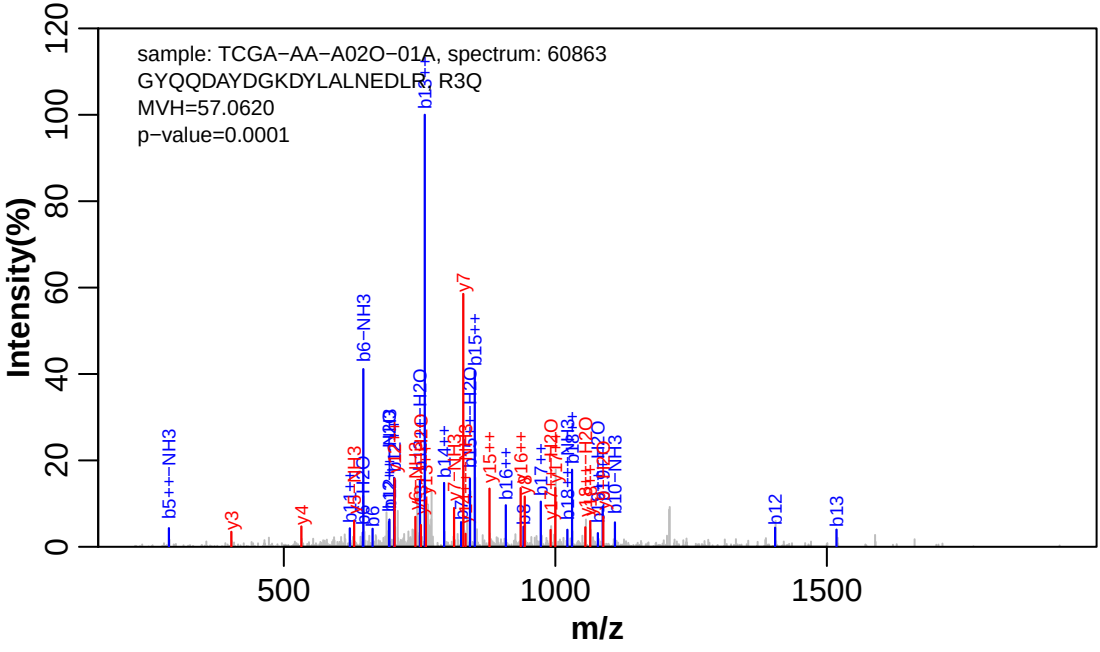

sample: TCGA−AA−A02O−01A, spectrum: 5076
GFGTDEQALLDCLGSCSNK, R16C
MVH=68.5652
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y5++
y3
y7++
y10−NH3
y11
y9
y8++
b5−H2O
b18++−H2O

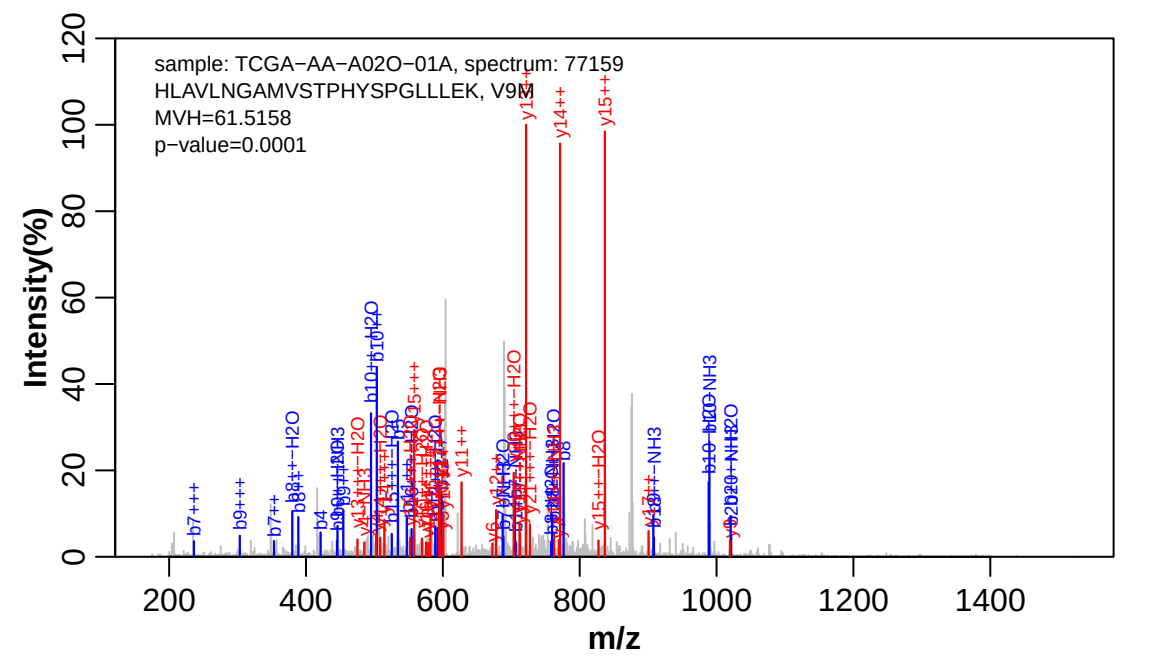

sample: TCGA−AA−A02O−01A, spectrum: 31217
GLDVTAYSPLGSSDR, E3D
MVH=54.8685
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
y4
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9−H2O
y9
b10
y10−H2O
y10
b11
y11
b12

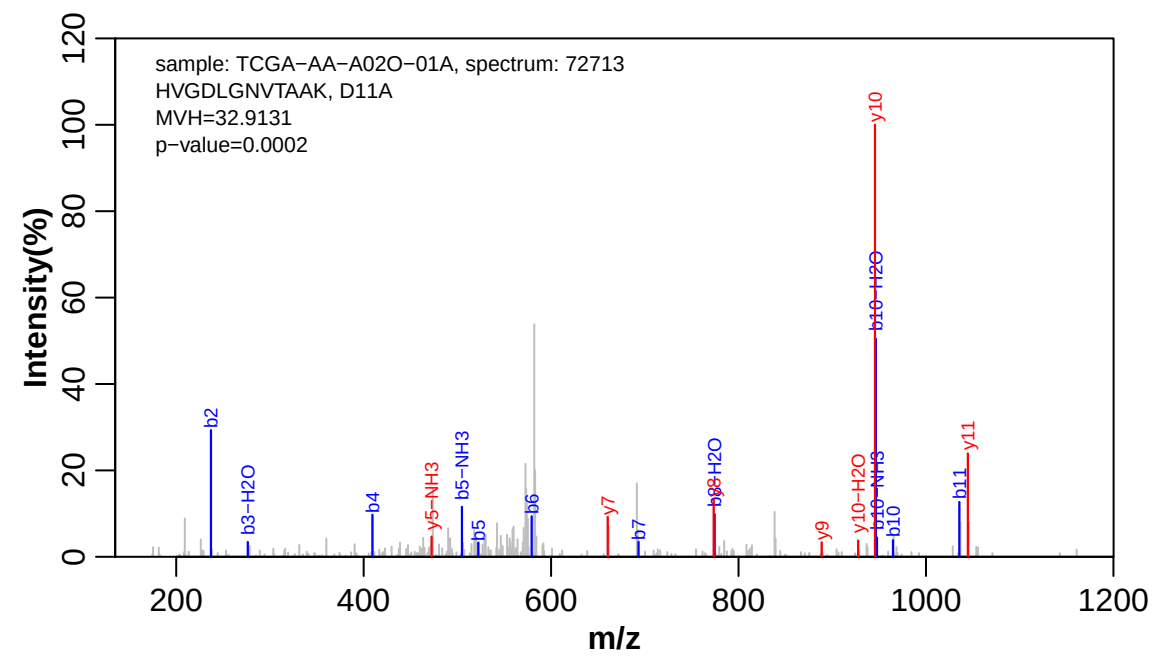

sample: TCGA−AA−A02O−01A, spectrum: 81305
GLSFDAAATSGGSASSEK, T2I
MVH=64.4936
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y11
y9
y8
y7−NH3
y12
y4
y3
y5
y6
y13
y14
b16
b17
b9
b10
b14
b15
b8
b6−H2O
y7−H2O
y9−NH3−H2O
y10−NH3−H2O
b14−H2O
b15−H2O

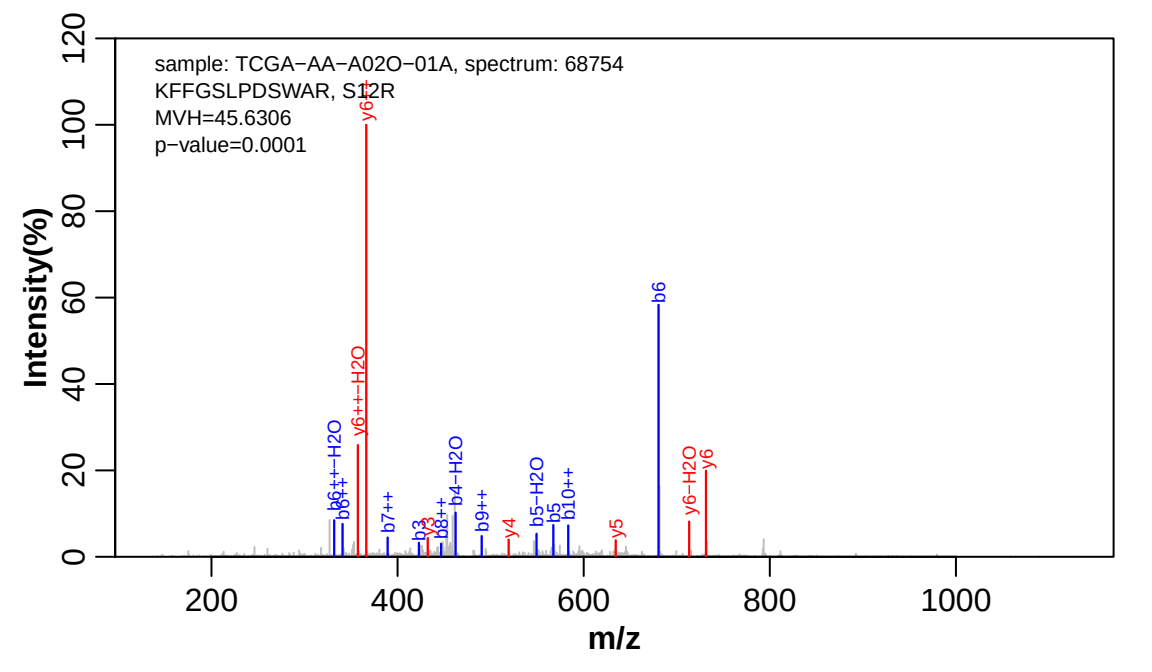

sample: TCGA−AA−A02O−01A, spectrum: 38377
GQTGALLQNTVESLSK, D9N
MVH=68.1979
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y5
y4
y3
y6
b6
b5
b13−H2O
b14

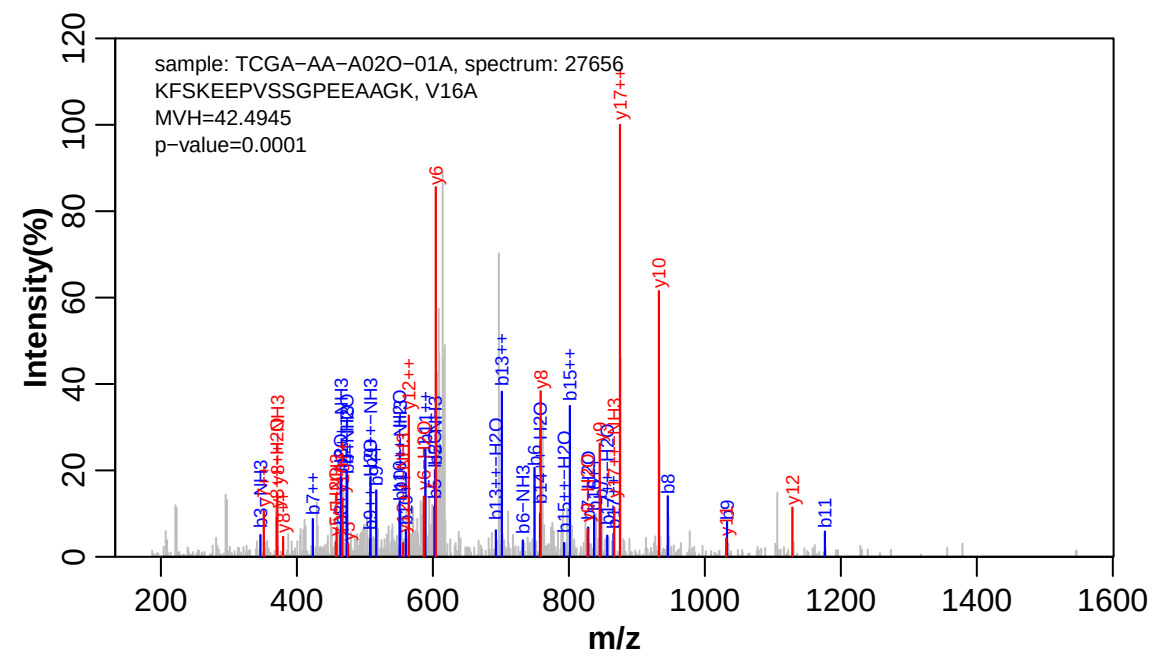

sample: TCGA−AA−A02O−01A, spectrum: 30438
GVAGSSVAVLCPYNR, G5S
MVH=44.9689
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9−H2O
b9
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11
b11−H2O
y9
y10
b14

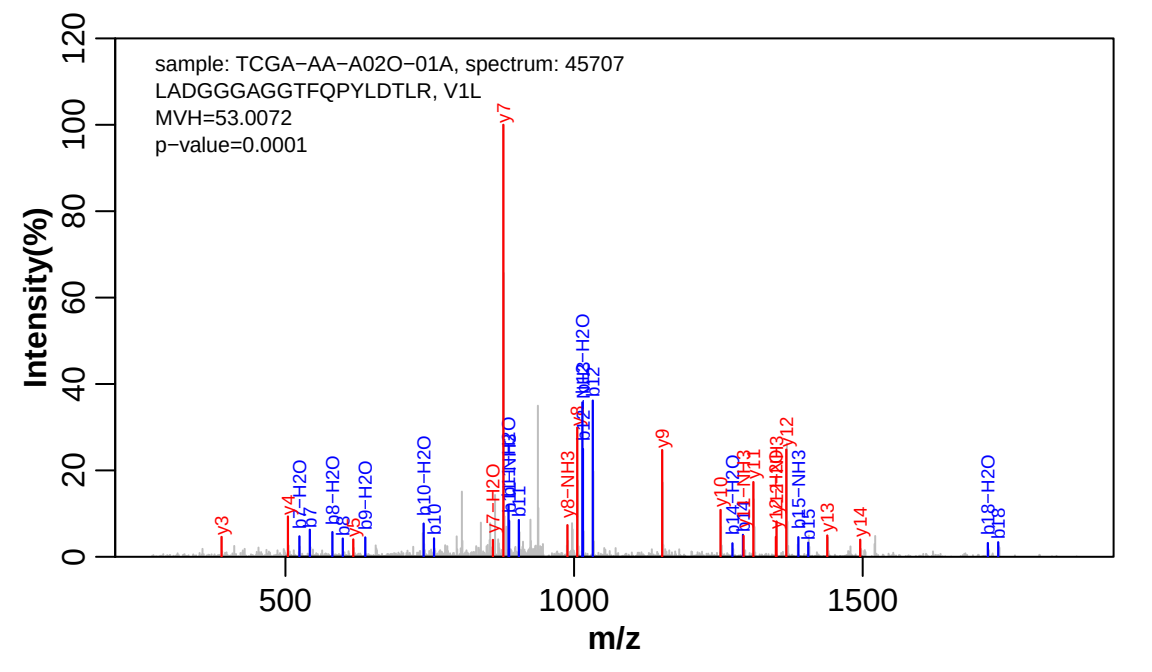

sample: TCGA−AA−A02O−01A, spectrum: 60863
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=57.0620
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b13++
b6−NH3
y7
b15++
b5++−NH3
y3
y4
b12
b13

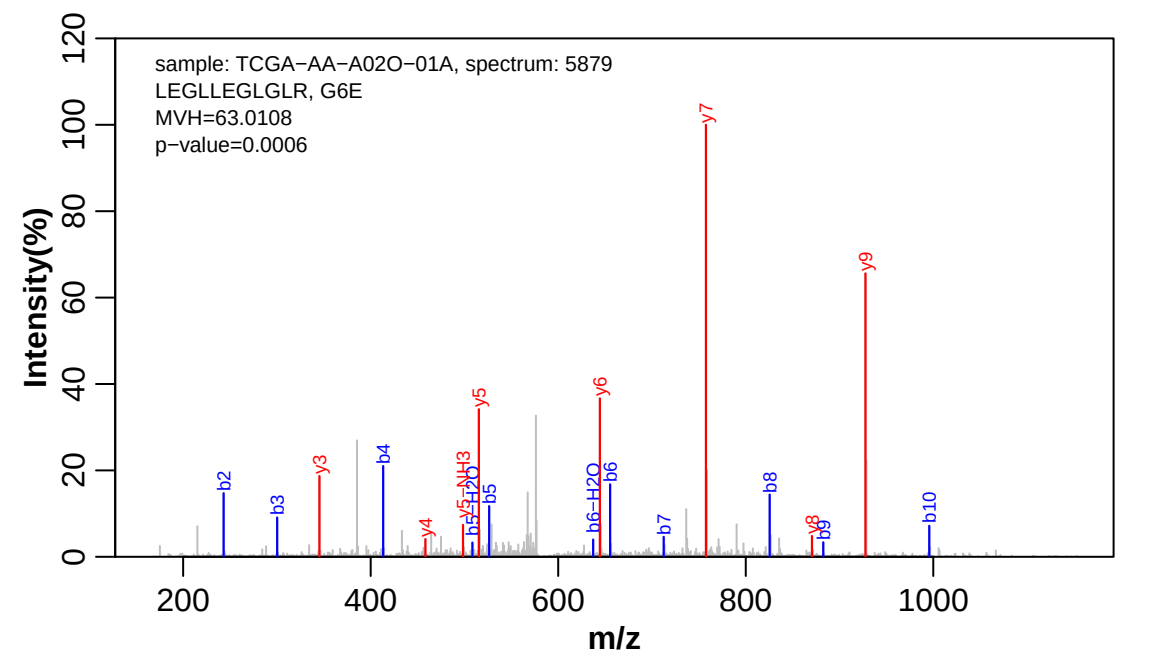

sample: TCGA−AA−A02O−01A, spectrum: 77159
HLAVLNGAMVSTPHYSPGLLLEK, V9M
MVH=61.5158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7+++
b9+++
b7++
b8++−H2O
b8++
b4
y11++
y15++−H2O
y15++
y14++
y13++
b10+−H2O
b10+
y10+−NH3
y10+
b10++−NH3
b10++
y10++−NH3
y10++−H2O
y10++
y17++−NH3
y17++
b10+−NH3
b10+−H2O

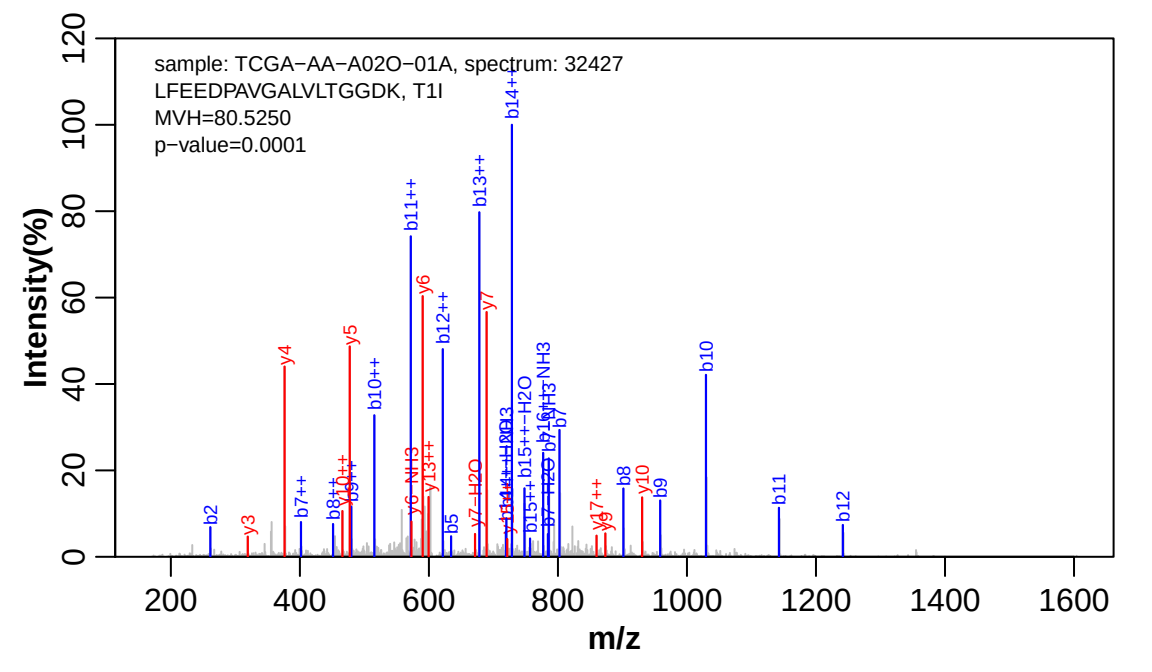

sample: TCGA−AA−A02O−01A, spectrum: 72713
HVGDLGNVTAAK, D11A
MVH=32.9131
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−H2O
b4
y5−NH3
b5−NH3
b5
b6
y7
b7
b8−H2O
y9
y10−H2O
y10−NH3
b10
b11
y11
b10−H2O
y10

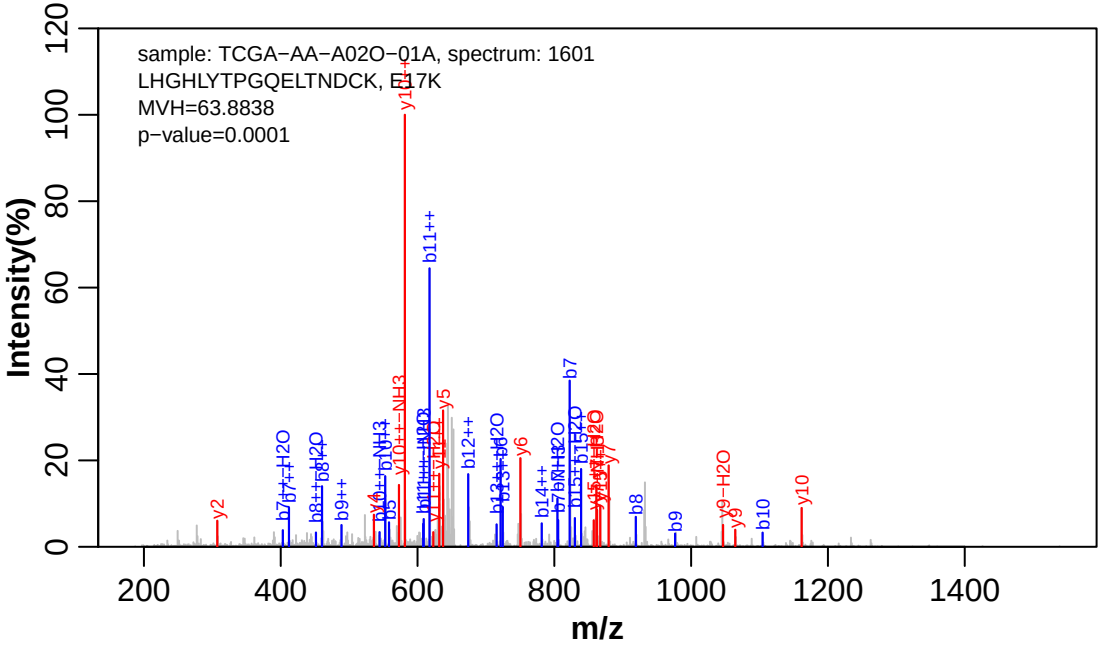

sample: TCGA−AA−A02O−01A, spectrum: 68754
KFFGSLPDSWAR, S12R
MVH=45.6306
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b7++
b3
b8++
b4−H2O
b9++
y4
b5−H2O
b5
b10++
y5
b6
y6−H2O
y6

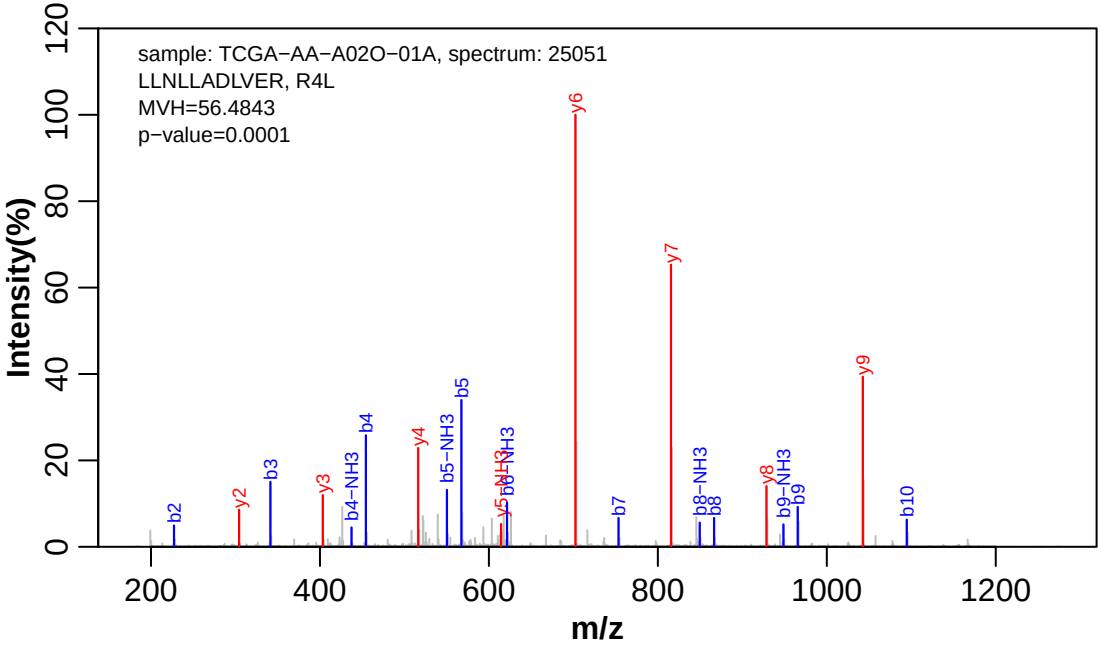

sample: TCGA−AA−A02O−01A, spectrum: 27656
KFSKEEPVSSGPEEAAGK, V16A
MVH=42.4945
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y17++
y6
y10
y8
y12
b11
b8
b13++
b15++
b7++
b6−NH3
b13++−H2O
b15++−H2O
y8−NH3
y8−H2O
y12++
b3−NH3

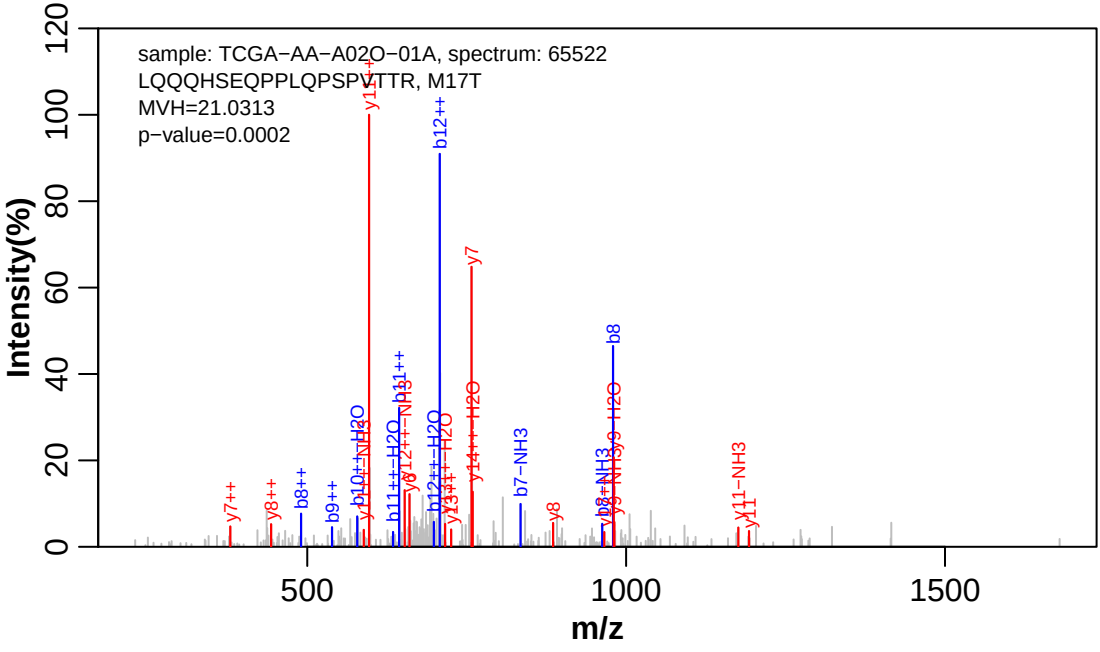

sample: TCGA−AA−A02O−01A, spectrum: 45707
LADGGGAGGTFQPYLDTLR, V1L
MVH=53.0072
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y9
y3
y4
y5
y8−NH3
y10
y13
y14
y12
b7
b8
b9
b10
b11
b12
b15−NH3
b18
−H2O

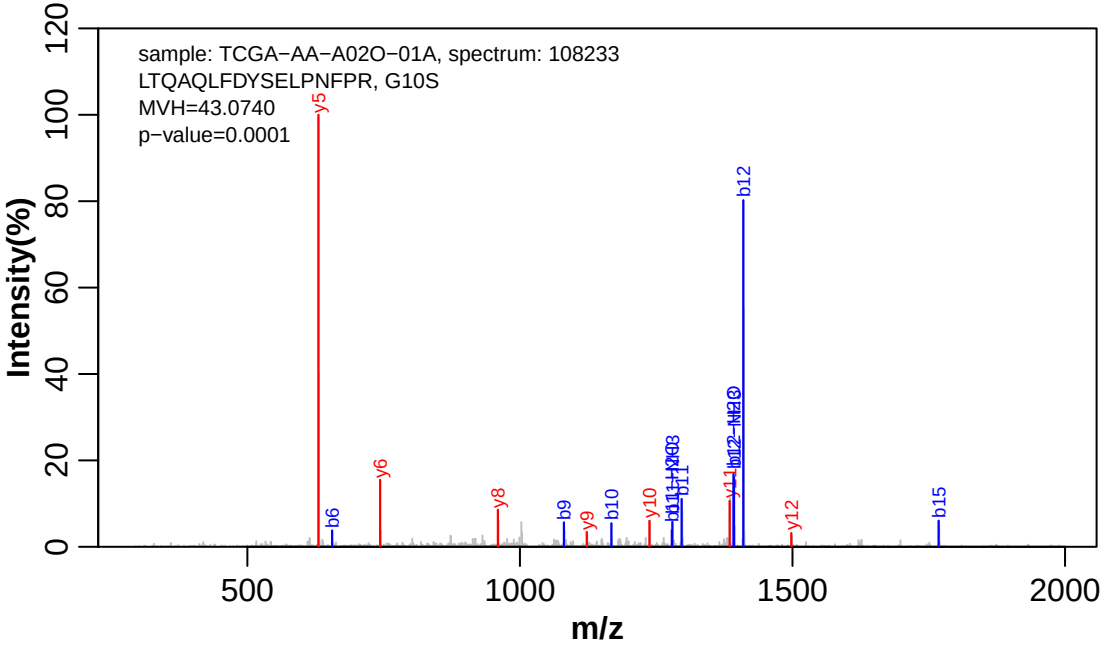

sample: TCGA−AA−A02O−01A, spectrum: 5879
LEGLLEGLGLR, G6E
MVH=63.0108
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
y3
b4
y4
y5−NH3
b5−H2O
y5
b5
y6
b6−H2O
b6
b7
b8
y8
b9
y7
y9
b10

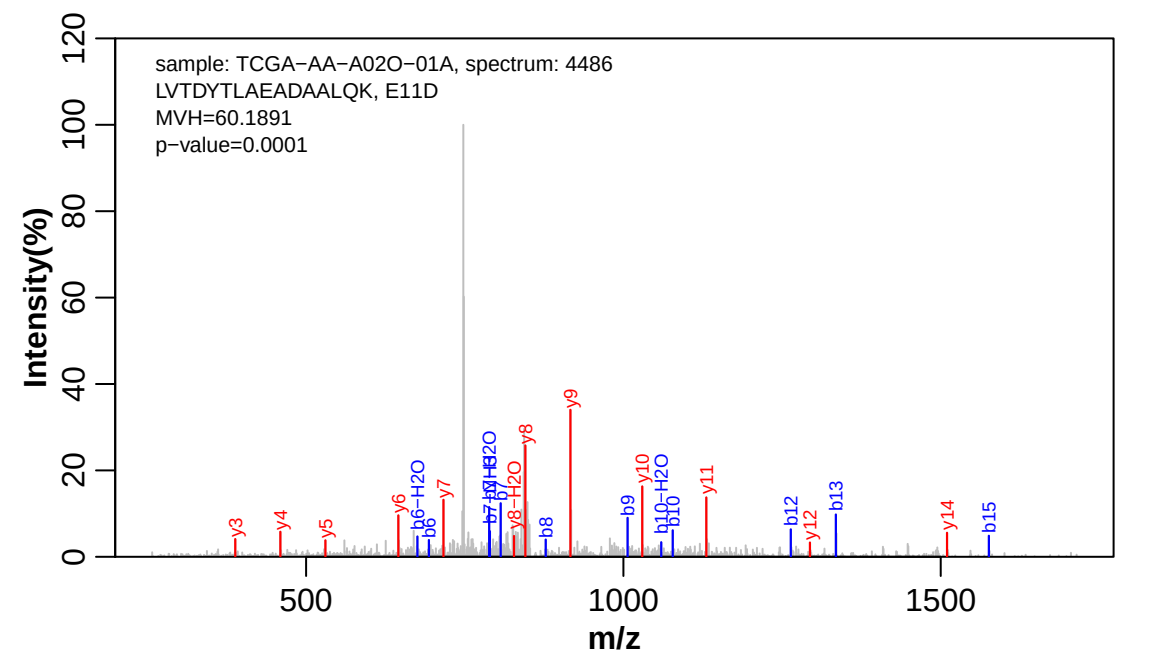

sample: TCGA−AA−A02O−01A, spectrum: 32427
LFEEDPAVGALVLTGGDK, T1I
MVH=80.5250
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
y4
b7++
b8++
y10++
b9++
y5
b10++
b11++
y6
y6−NH3
y13++
b12++
b5
y7−H2O
b13++
y7
b14++
y14++−H2O
y14++−NH3
b15++−H2O
b15++−NH3
b16++
b7
y17++
y9
b8
y10
b9
b10
b11
b12

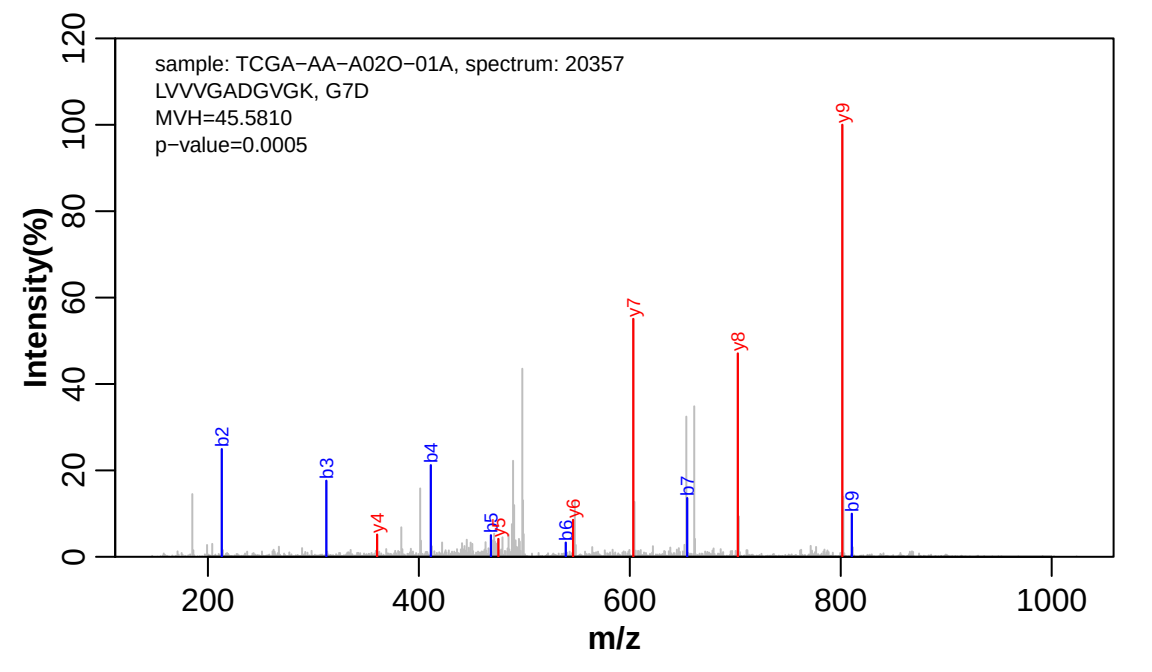

sample: TCGA−AA−A02O−01A, spectrum: 1601
LHGHLYTPGQELTNDCK, E17K
MVH=63.8838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b7++−H2O
b8++−H2O
b9++
y4++−NH3
b5
y10++−NH3
y10++
b11++
y5
b12++
b13++−H2O
y6
b14++
b7
b8
b9
y9−H2O
y9
b10
y10

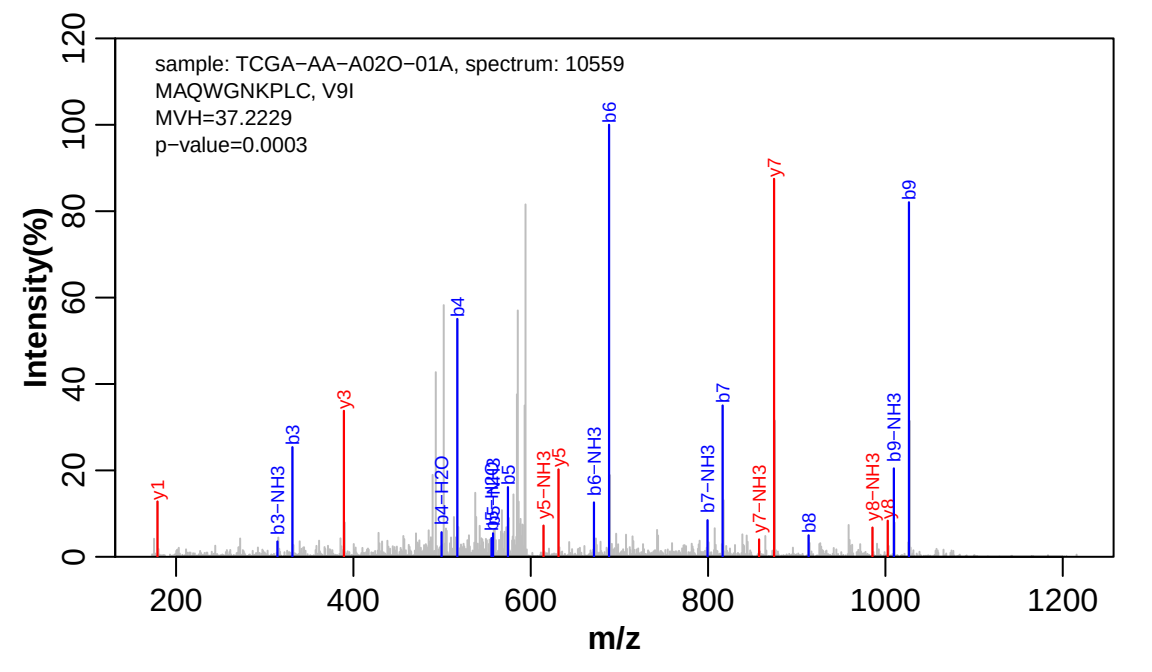

sample: TCGA−AA−A02O−01A, spectrum: 25051
LLNLLADLVER, R4L
MVH=56.4843
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
b4−NH3
y4
b5
b5−NH3
y5−NH3
b6
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

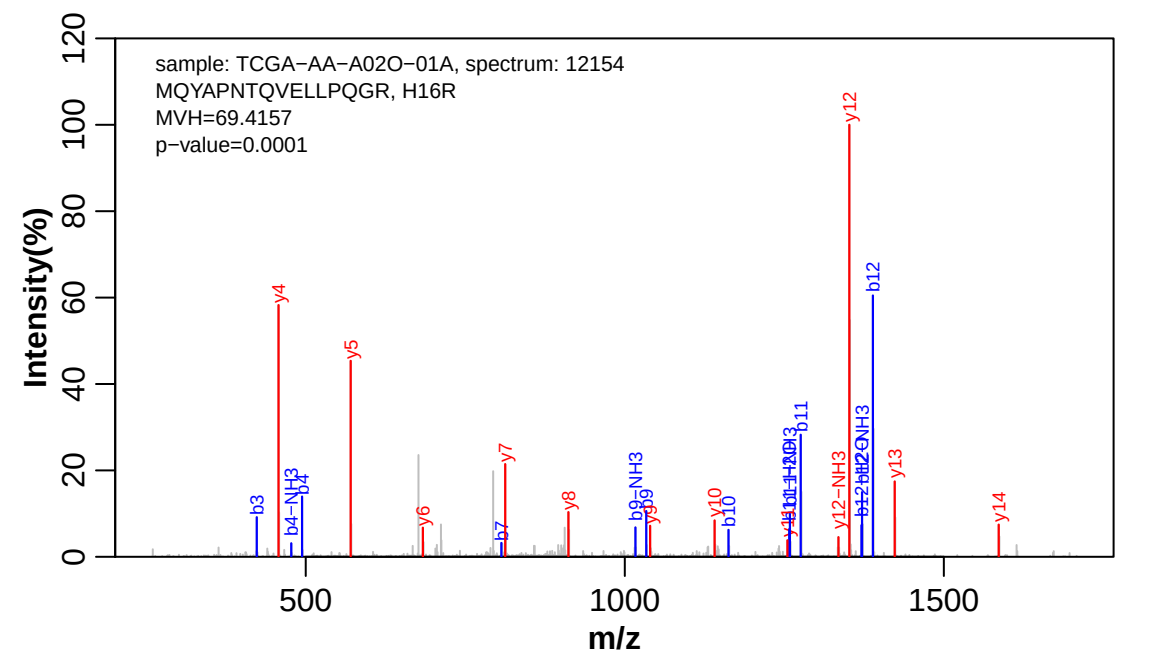

sample: TCGA−AA−A02O−01A, spectrum: 65522
LQQQHSEQPPLQPSPVTTR, M17T
MVH=21.0313
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
y8++
b8++
b9++
y10++−NH3
y10++−H2O
b10++−NH3
b10++−H2O
y11++
b11++−H2O
y12++−NH3
b11++
y12++−H2O
b12++−H2O
y13++−H2O
b12++
y14++−H2O
y7
b7−NH3
y8
b8+NH3
y9−NH3
y9−H2O
b8
y11−NH3

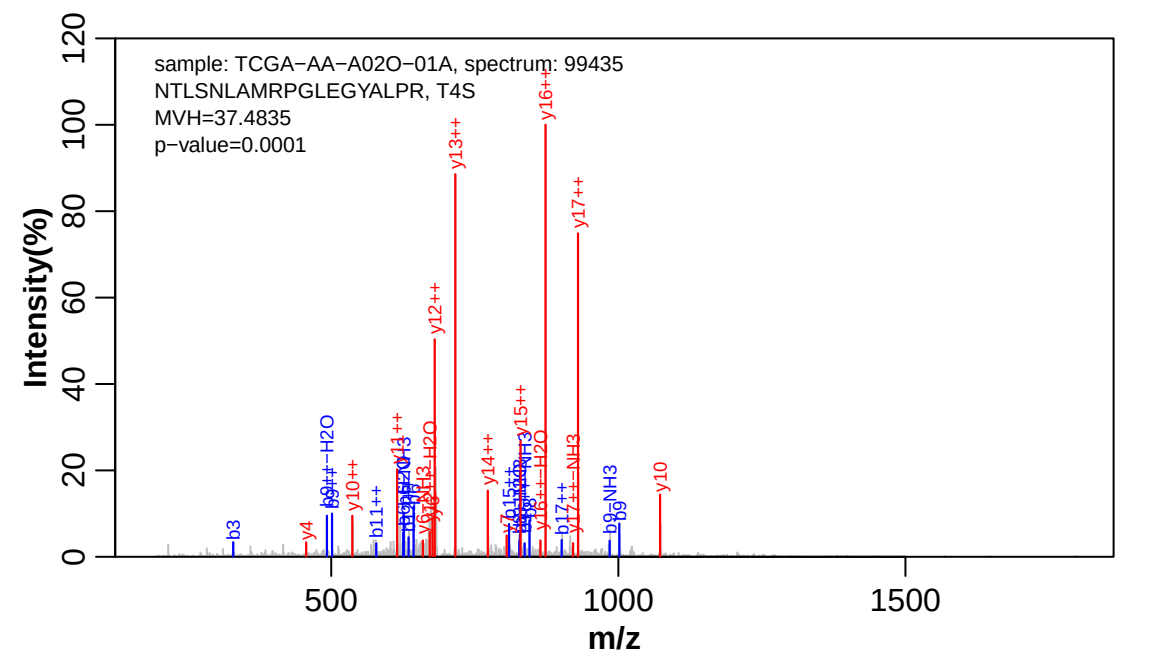

sample: TCGA−AA−A02O−01A, spectrum: 108233
LTQAQLFDYSELPNFPR, G10S
MVH=43.0740
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y5
b6
y6
y8
b9
y9
b10
y10
b11
b12
y11
y12
b15

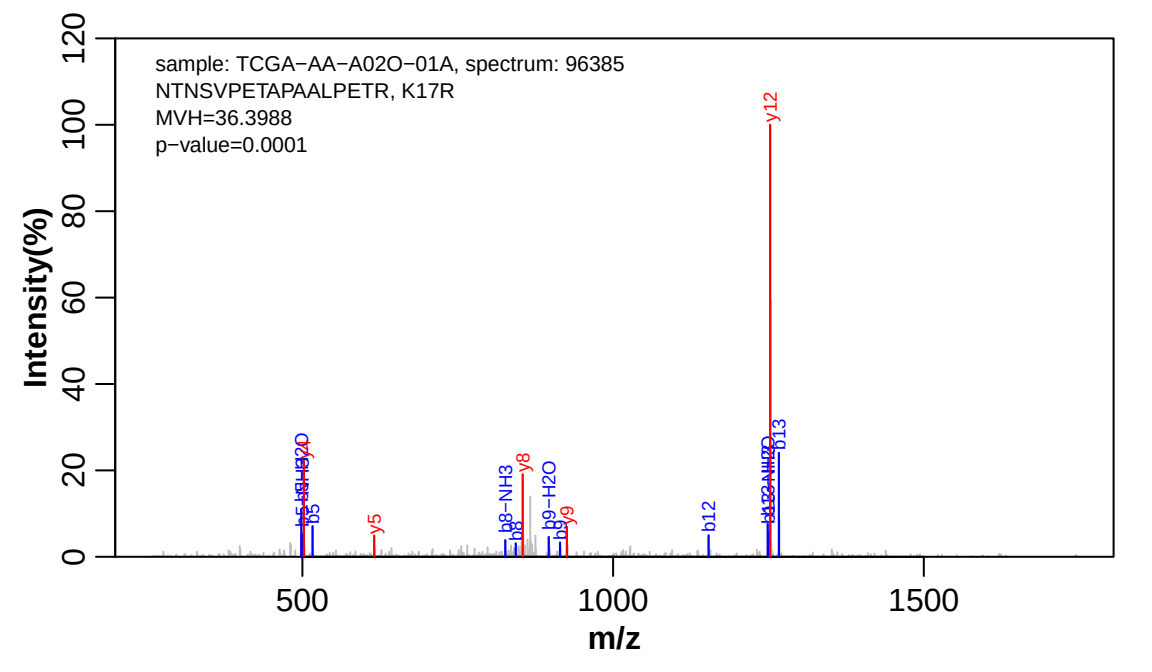

sample: TCGA−AA−A02O−01A, spectrum: 4486
LVTDYTLAEADAALQK, E11D
MVH=60.1891
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
b6−H2O
b6
y7
b7−H2O
b7
y8−H2O
y8
b8
y9
b9
y10
b10−H2O
b10
y11
b12
y12
b13
y14
b15

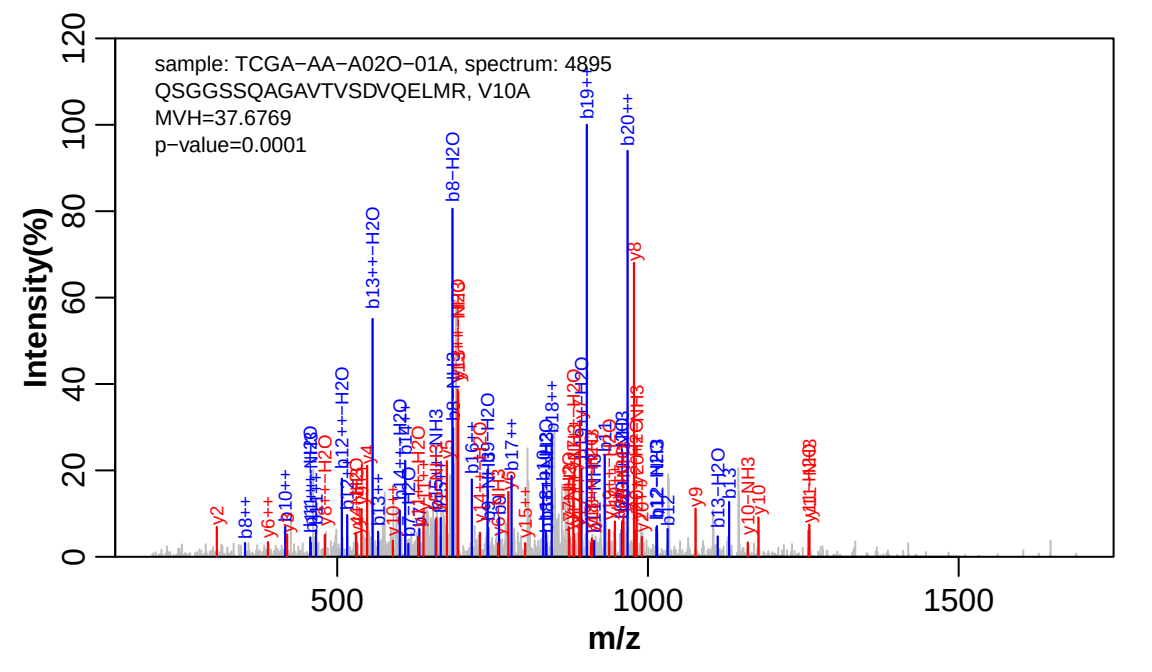

sample: TCGA−AA−A02O−01A, spectrum: 20357
LVVVGADGVGK, G7D
MVH=45.5810
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y4
b4
b5
y5
b6
y6
y7
b7
y8
y9
b9

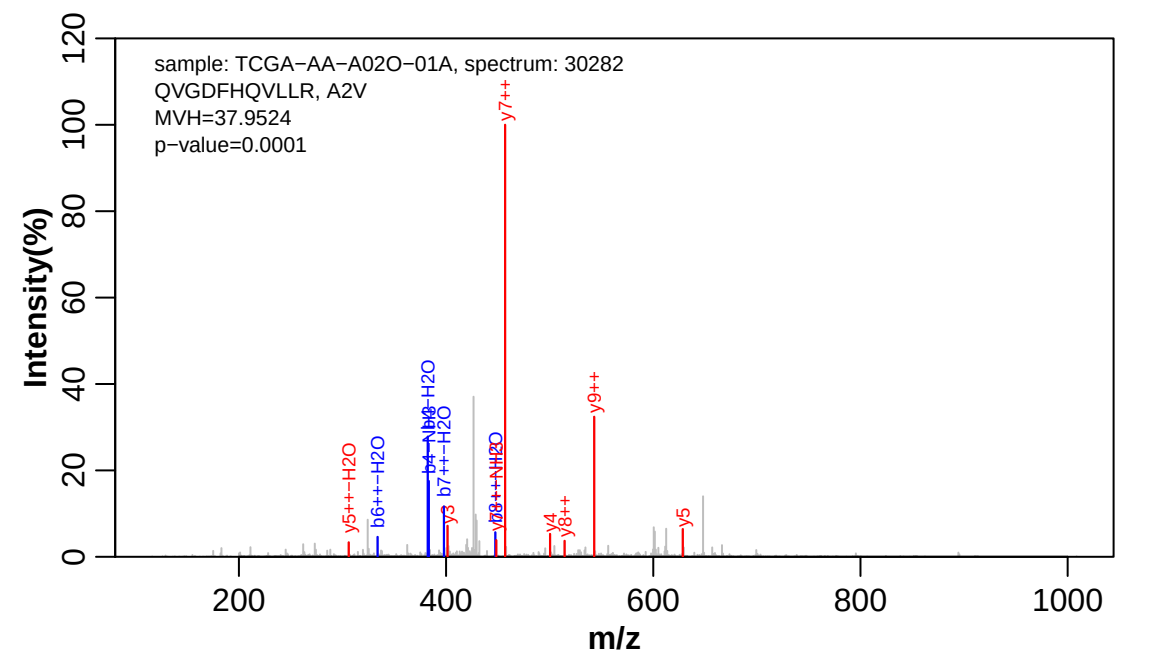

sample: TCGA−AA−A02O−01A, spectrum: 10559
MAQWGNKPLC, V9I
MVH=37.2229
p−value=0.0003
Intensity(%)
m/z
y1
b3−NH3
b3
y3
b4−H2O
b4
b5−NH3
b5
y5−NH3
y5
b6−NH3
b6
b7−NH3
b7
y7−NH3
y7
b8
y8−NH3
y8
b9−NH3
b9

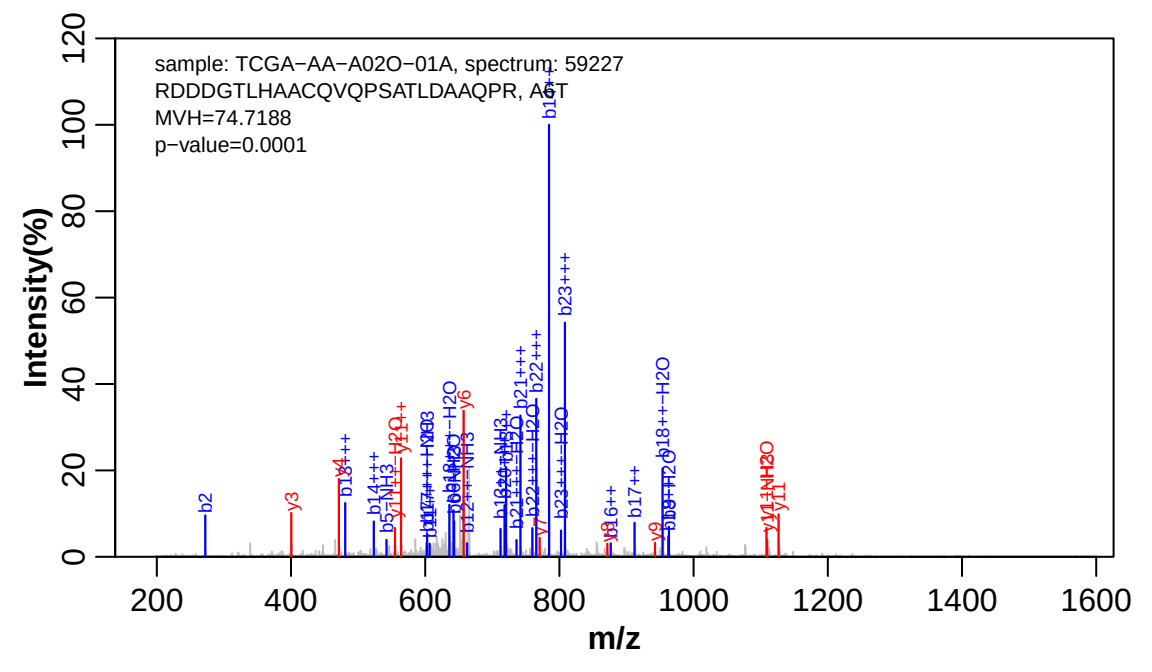

sample: TCGA−AA−A02O−01A, spectrum: 12154
MQYAPNTQVELLPQGR, H16R
MVH=69.4157
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4−NH3
b4
y4
y5
y6
y7
y8
b9−NH3
y9
y10
b10
b11
y12−NH3
y12
b12
y13
y14

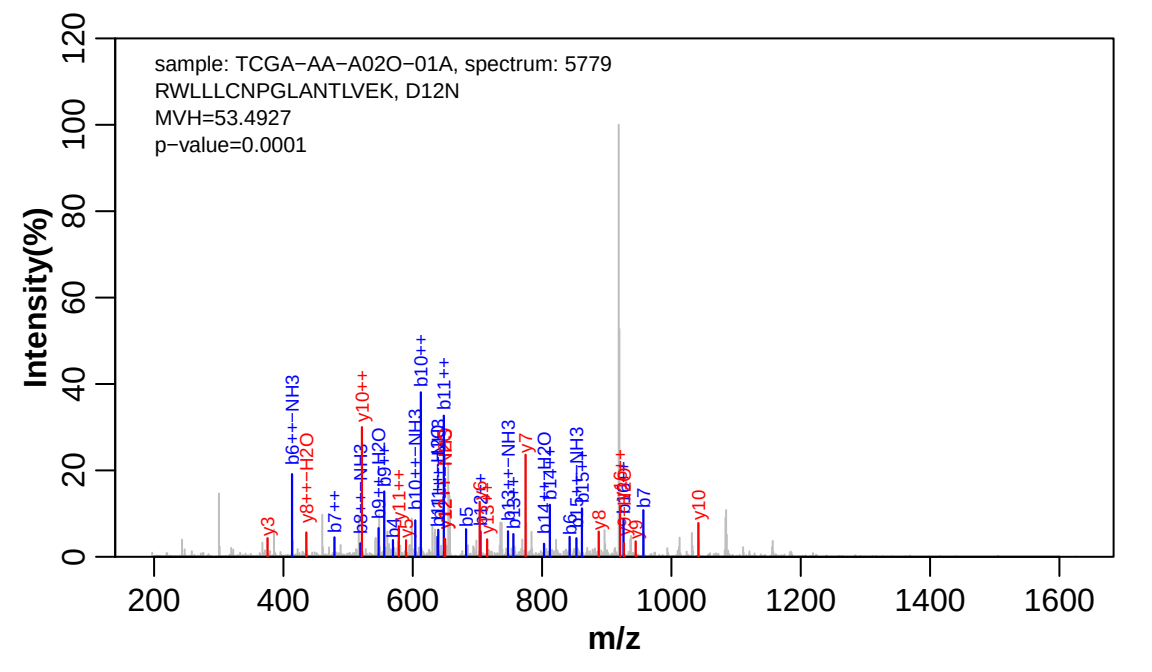

sample: TCGA−AA−A02O−01A, spectrum: 99435
NTLSNLAMRPGLEGYALPR, T4S
MVH=37.4835
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
y10++
b11++
y12++
y13++
y14++
y16++
y17++
y10

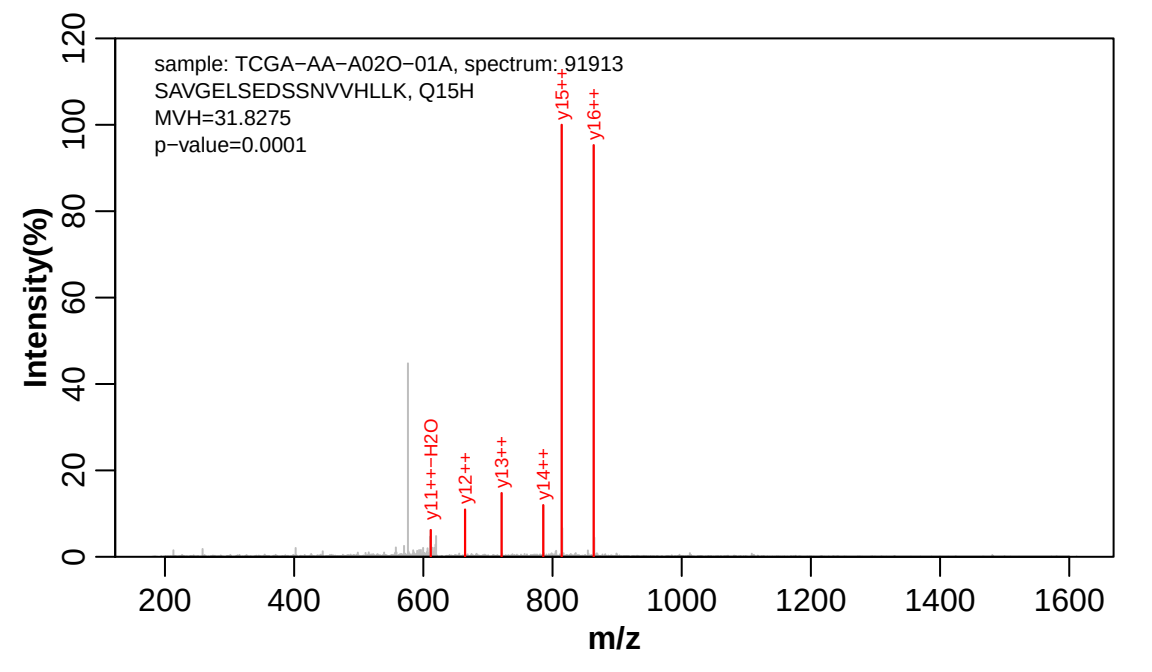

sample: TCGA−AA−A02O−01A, spectrum: 96385
NTNSVPETAPAALPETR, K17R
MVH=36.3988
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b13
y8
y5
b12
b9−NH3
b9−H2O
b5

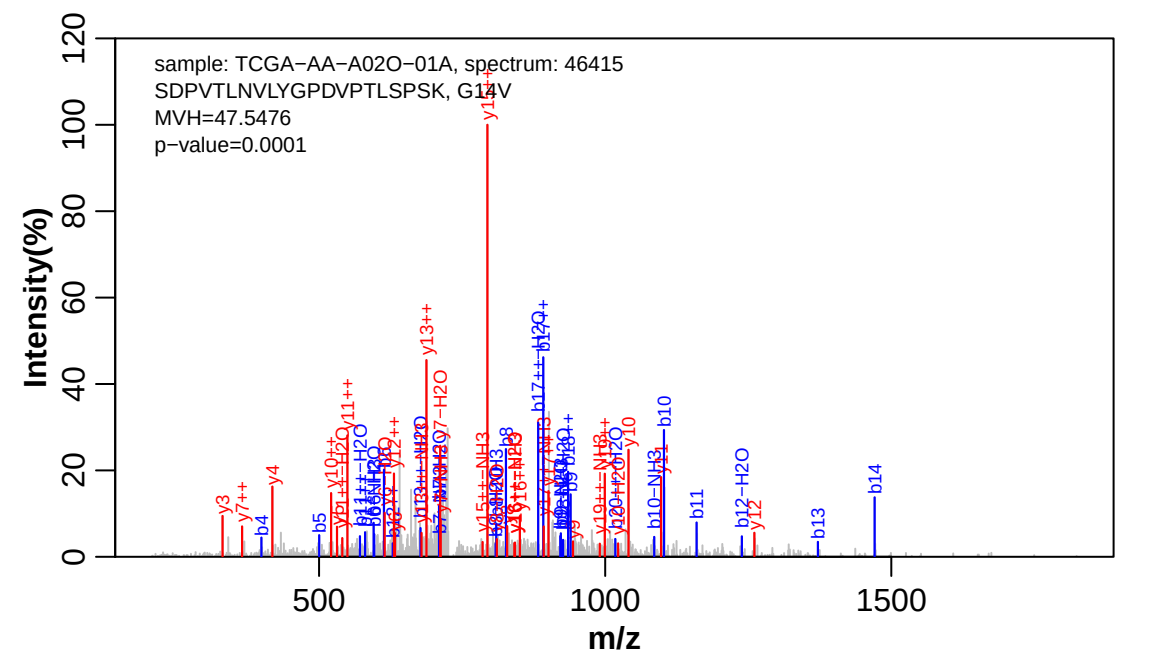

sample: TCGA−AA−A02O−01A, spectrum: 4895
QSGGSSQAGAVTVSDVQELMR, V10A
MVH=37.6769
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b19++
b20++
b8−H2O
b13++−H2O
y8
y2
b8++
y6++
y10++
b12++−H2O
y8++−H2O
b13++
b16++
y9
b13−H2O
y10−NH3
y15++

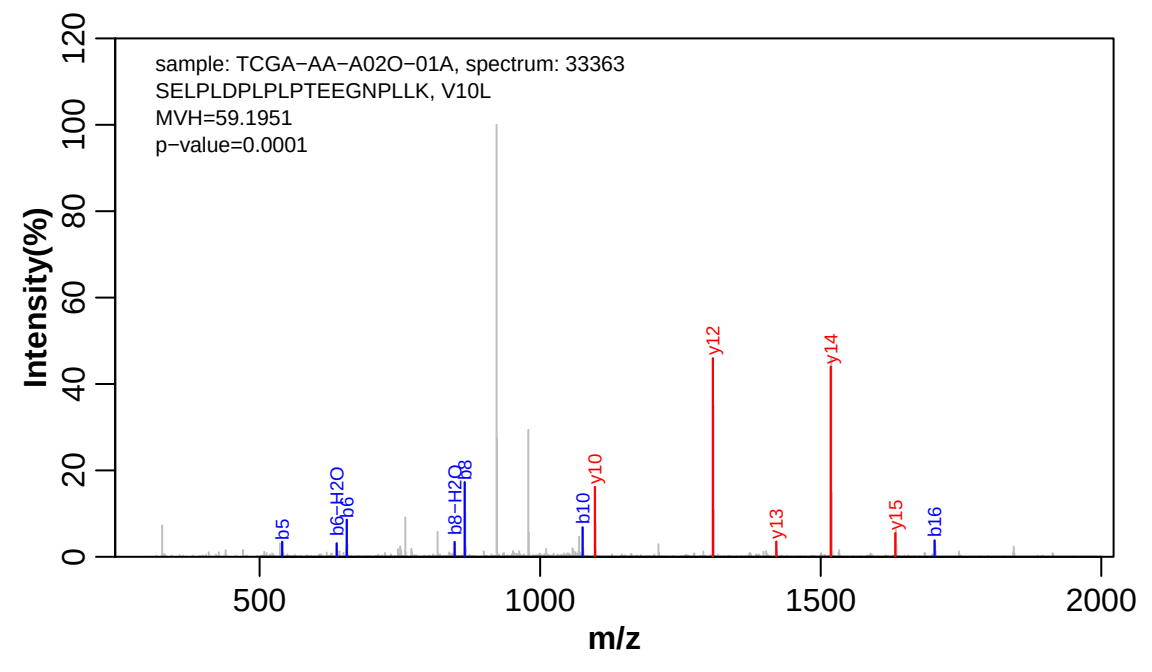

sample: TCGA−AA−A02O−01A, spectrum: 30282
QVGDFHQVLLR, A2V
MVH=37.9524
p−value=0.0001
Intensity(%)
m/z
y7++
y9++
y5++−H2O
b6++−H2O
b4++−H2O
b7++−H2O
y3
y4
y8++
y5
0
20
40
60
80
100
120
200
400
600
800
1000

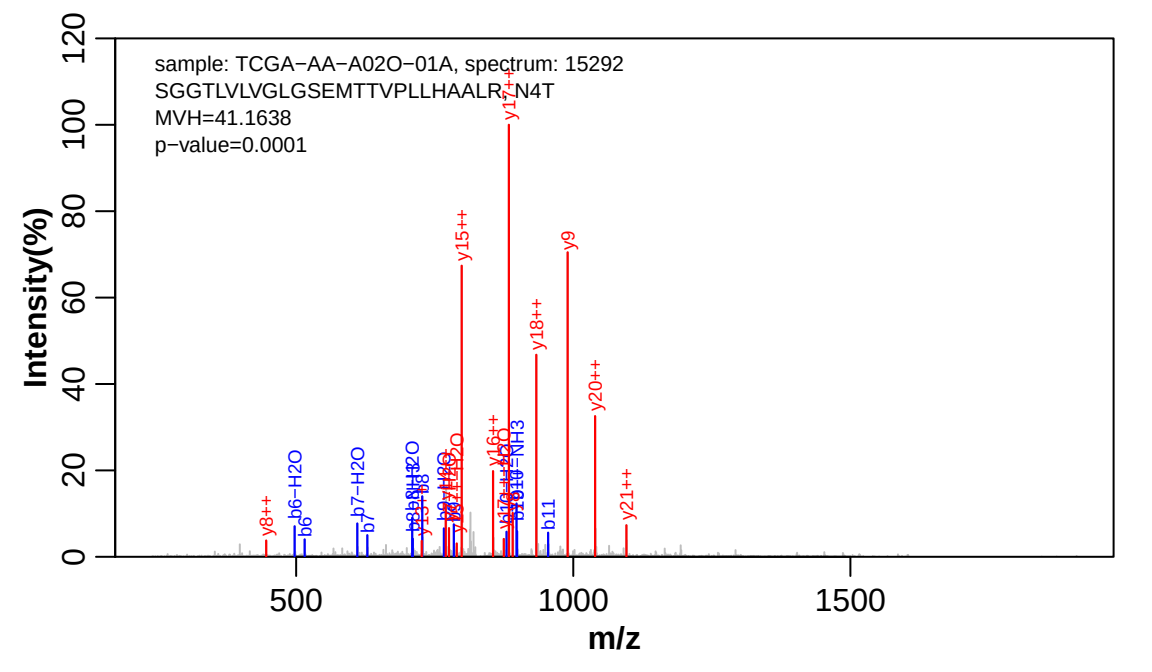

sample: TCGA−AA−A02O−01A, spectrum: 59227
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=74.7188
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
b14+++
b15+++
b18+++
b23+++
b21+++
b22+++
b22+++−H2O
b23+++−H2O
b18+++−H2O
b17++
y11
y11−NH3−H2O
y11−H2O
y6
y9
b16++

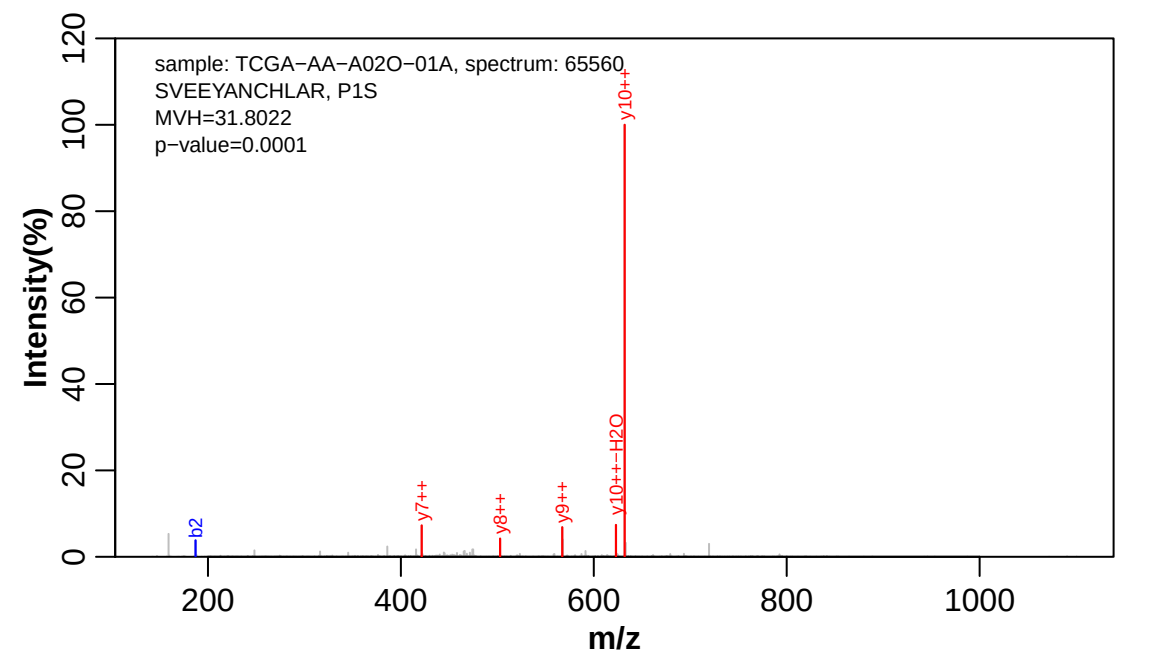

sample: TCGA−AA−A02O−01A, spectrum: 5779
RWLLLCNPGLANTLVEK, D12N
MVH=53.4927
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b6++−NH3
y8++−H2O
b7++
b8++−NH3
y10++
b9++−H2O
b4
y11++
y5
b10++−NH3
b10++
b11++
b5
y13++
b13++−NH3
y7
b14++−H2O
b6
b15++−NH3
y8
y9
b7
y10

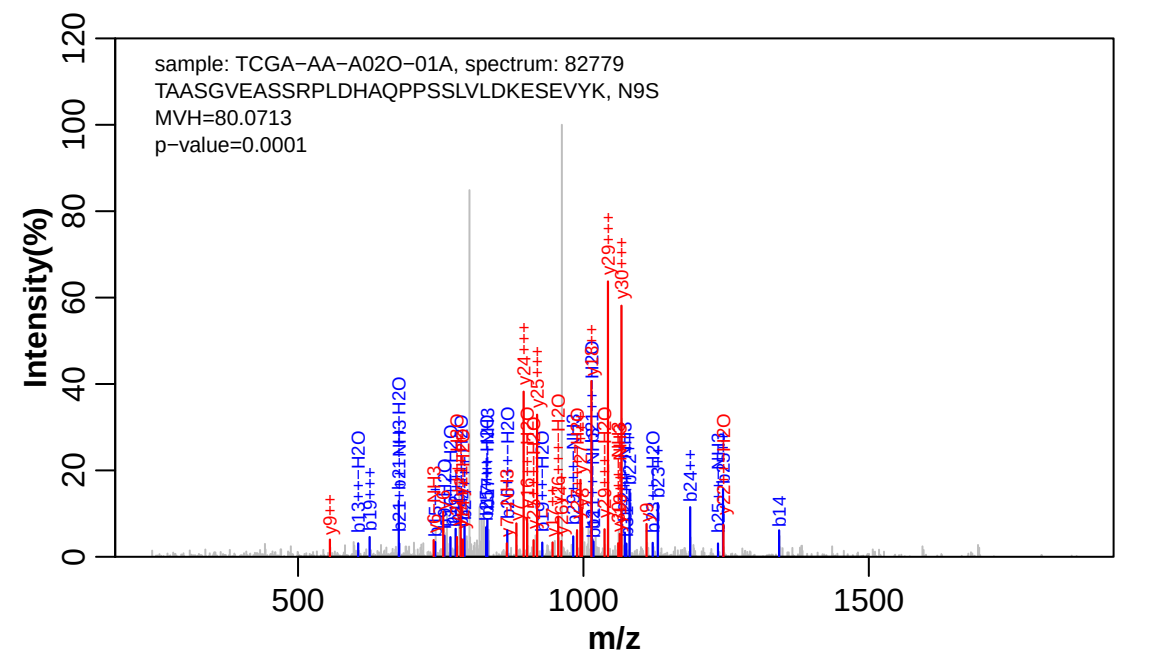

sample: TCGA−AA−A02O−01A, spectrum: 91913
SAVGELSEDSSNVVHLLK, Q15H
MVH=31.8275
p−value=0.0001
y15++
y16++
y11++−H2O
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

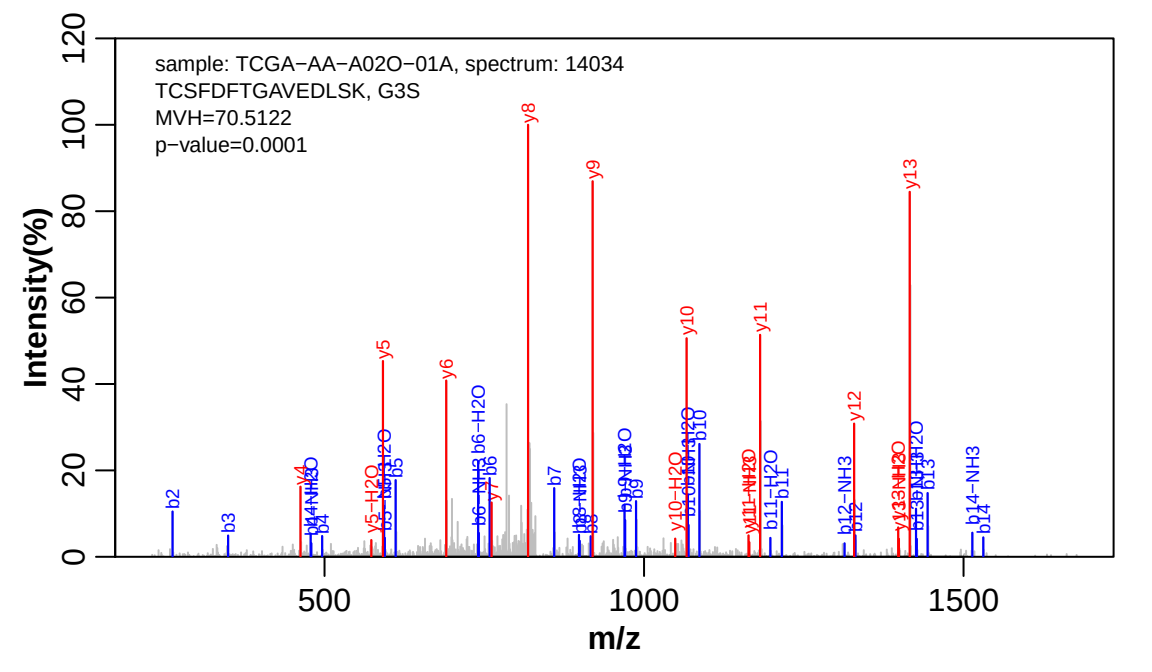

sample: TCGA−AA−A02O−01A, spectrum: 46415
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=47.5476
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y7++
b4
y4
b5
y10++
y11++
y13++
y12++
y15++−NH3
y16++−NH3
y18++−NH3
y19++−NH3
b17++−H2O
b10
b10−NH3
b11
b12−H2O
y12
b13
b14

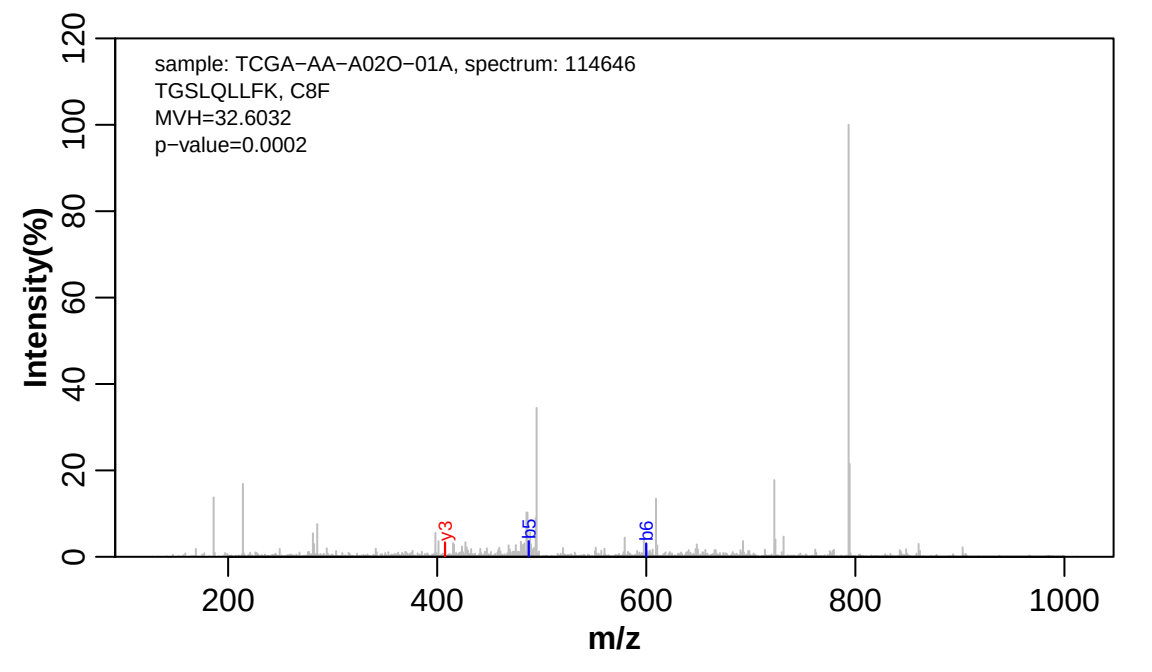

sample: TCGA−AA−A02O−01A, spectrum: 33363
SELPLDPLPLPTEEGNPLLK, V10L
MVH=59.1951
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b5
b6−H2O
b6
b8−H2O
b8
y10
b10
y12
y13
y14
y15
b16

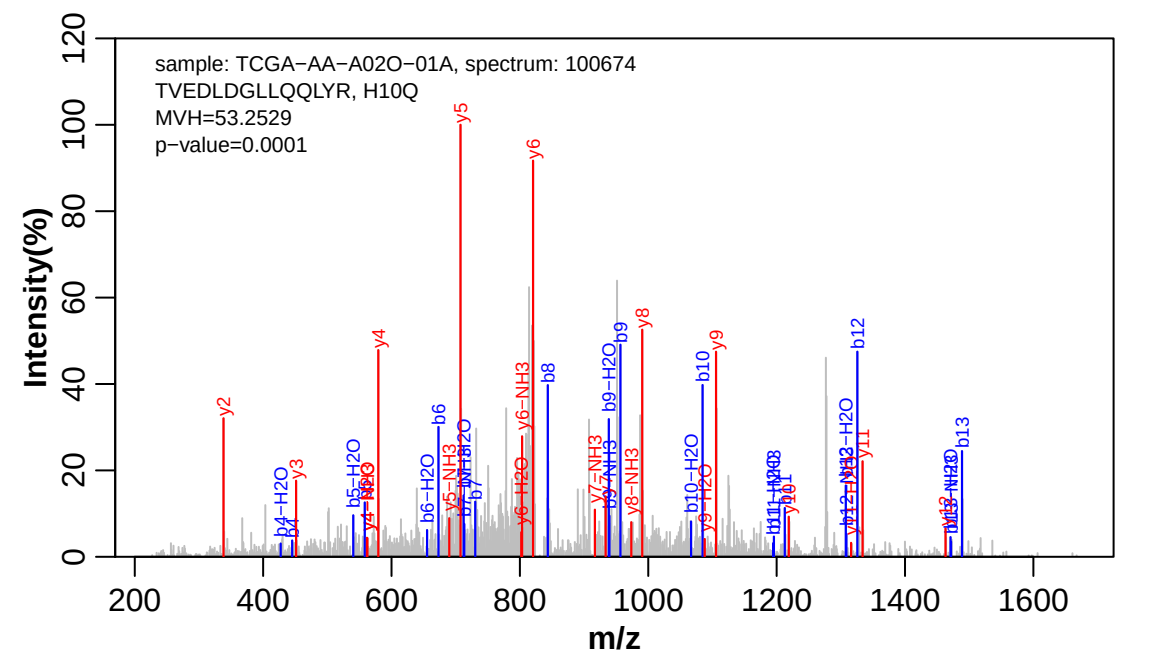

sample: TCGA−AA−A02O−01A, spectrum: 15292
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=41.1638
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y17++
y15++
y9
y18++
y20++
y21++
y8++
b6−H2O
b6
b7−H2O
b7
b11

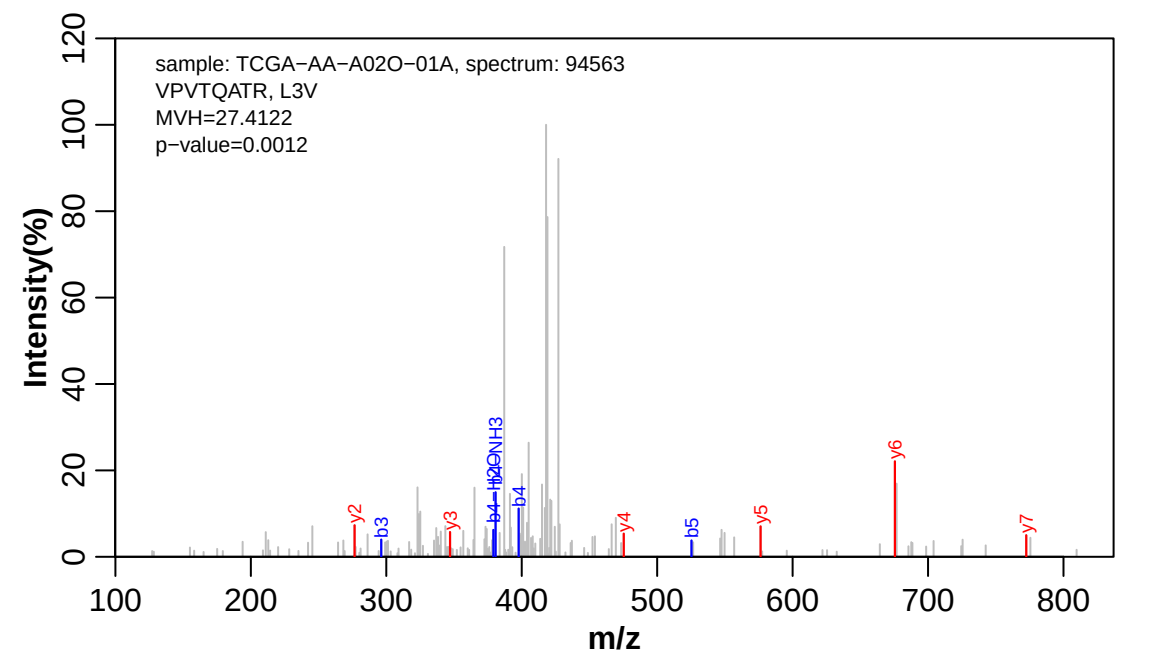

sample: TCGA−AA−A02O−01A, spectrum: 65560
SVEEYANCHLAR, P1S
MVH=31.8022
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
y8++
y9++
y10++−H2O
y10++

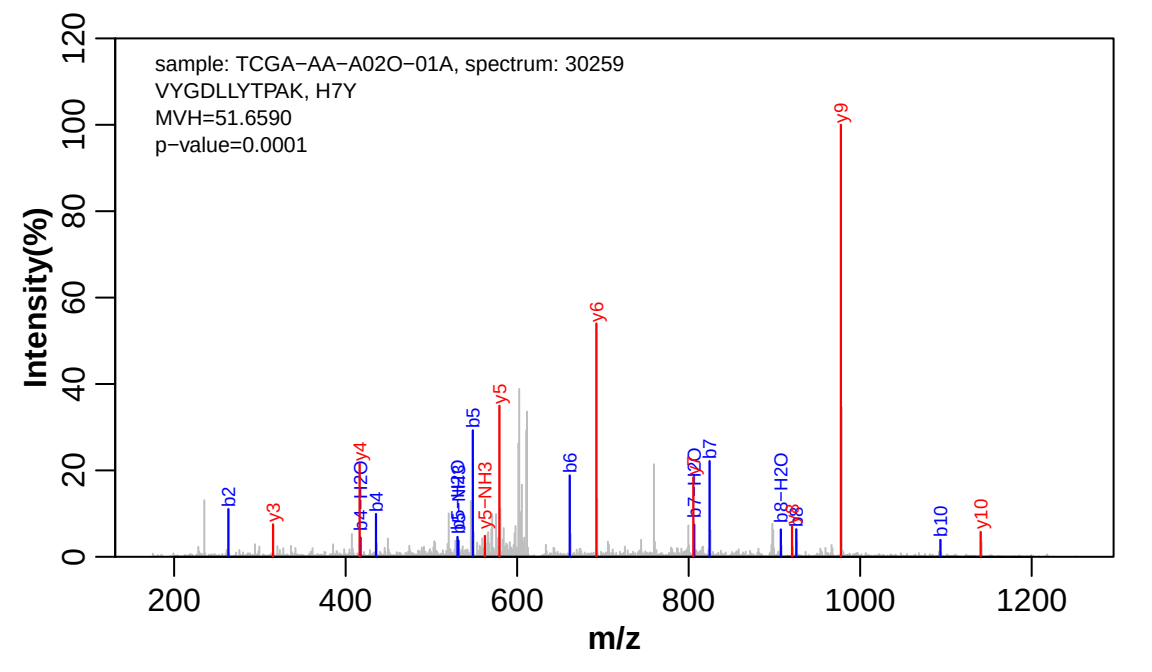

sample: TCGA−AA−A02O−01A, spectrum: 82779
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=80.0713
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9++
b13++−H2O
b19+++
b21+−NH3
b21+−H2O
y24+++
y25+++
y29+++
y30+++
b24++
b14

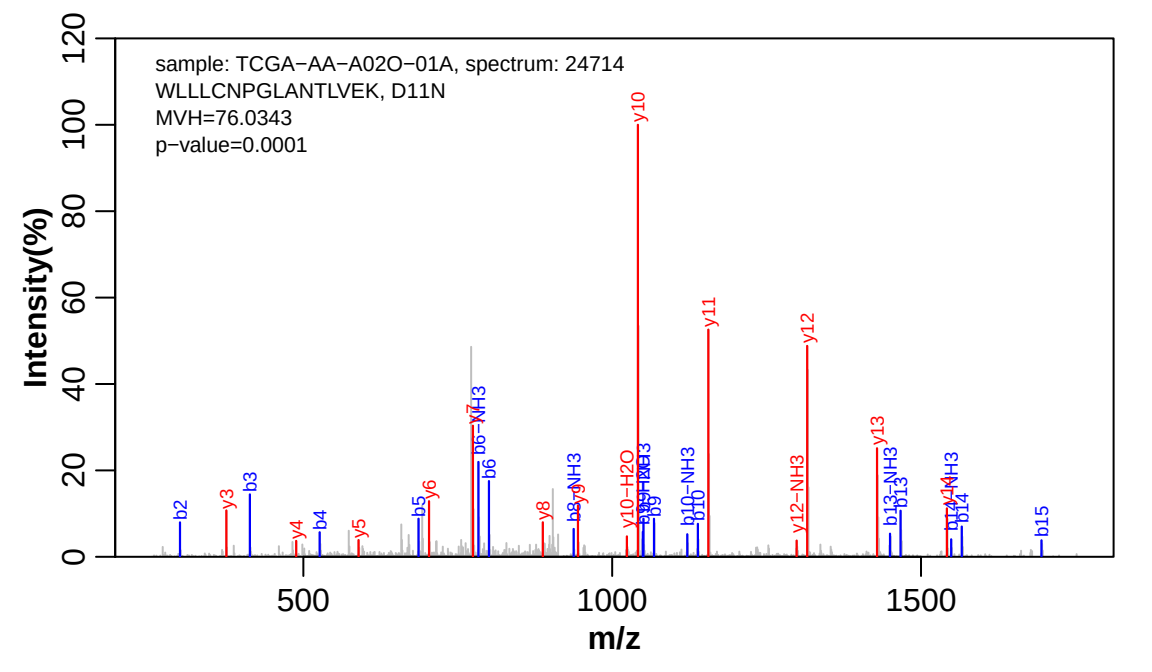

sample: TCGA−AA−A02O−01A, spectrum: 14034
TCSFDFTGAVEDLSK, G3S
MVH=70.5122
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y13
y5
y6
y10
y11
y12
b2
b3
b7
b14−NH3
b12−NH3
b6−NH3
b6−H2O
y5−H2O
y10−H2O
b11−H2O

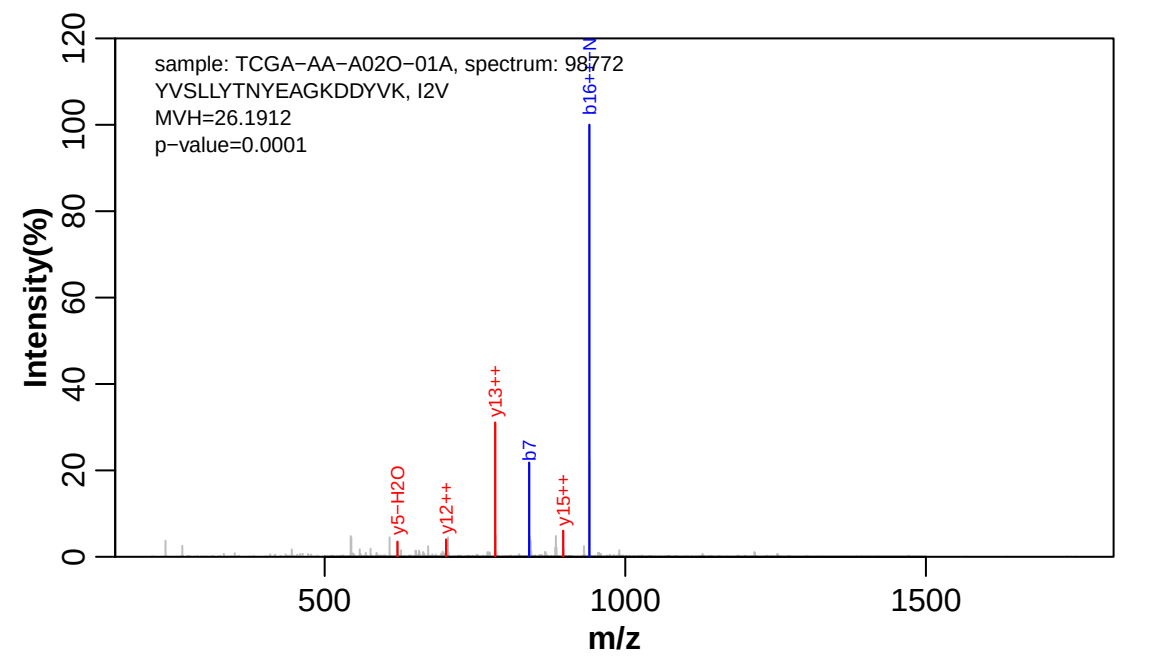

sample: TCGA−AA−A02O−01A, spectrum: 114646
TGSLQLLFK, C8F
MVH=32.6032
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
y3
b5
b6
200
400
600
800
1000
m/z

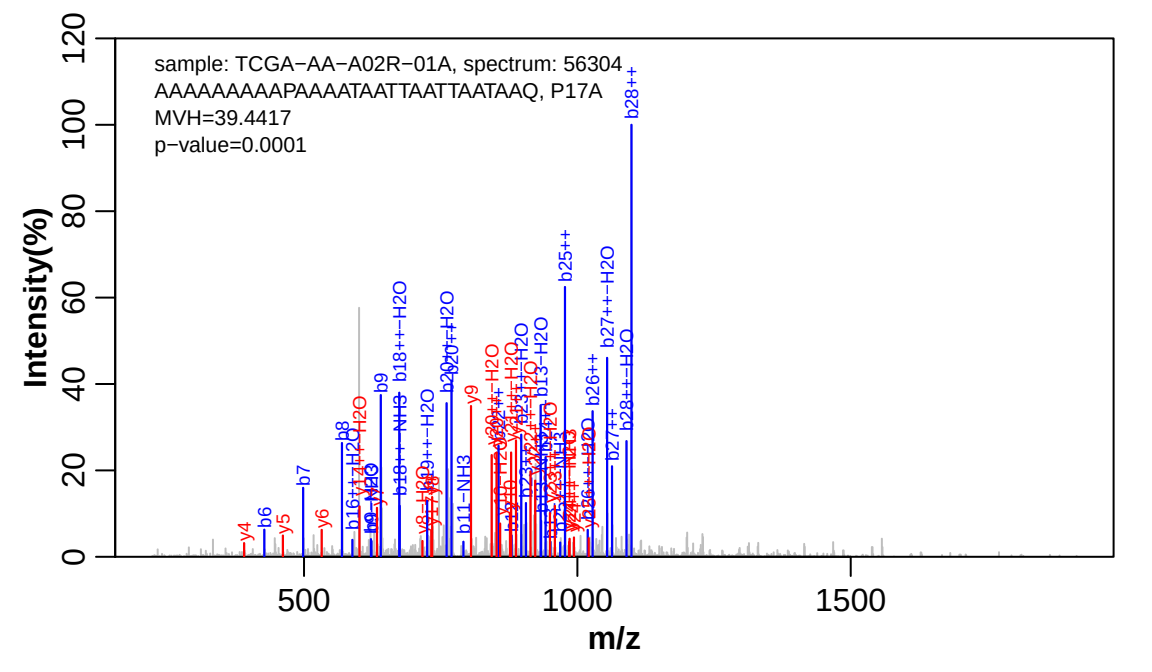

sample: TCGA−AA−A02O−01A, spectrum: 100674
TVEDLDGLLQQLYR, H10Q
MVH=53.2529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4−H2O
b4
y4
b5−H2O
y4−NH3
b5
b6−H2O
b6
y5−NH3
y5
b7−H2O
b7
y5−H2O
y6−H2O
y6−NH3
y6
b8
y7−NH3
b9−NH3
b9−H2O
b9
y8−NH3
y8
b10−H2O
b10
y9−H2O
y9
y10
b11−NH3
b11−H2O
b11
y11−NH3
y11−H2O
y11
b12
y12−NH3
y12−H2O
y12
b13−NH3
b13−H2O
b13

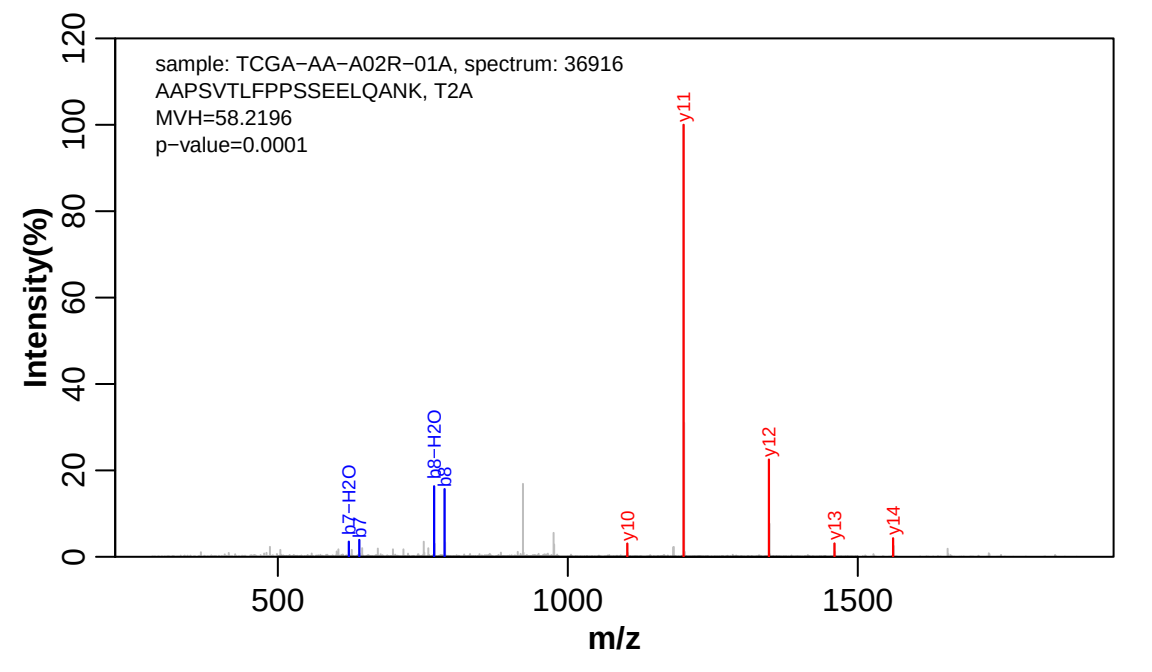

sample: TCGA−AA−A02O−01A, spectrum: 94563
VPVTQATR, L3V
MVH=27.4122
p−value=0.0012
Intensity(%)
m/z
y2
b3
y3
b4−NH3
b4−H2O
b4
y4
b5
y5
y6
y7

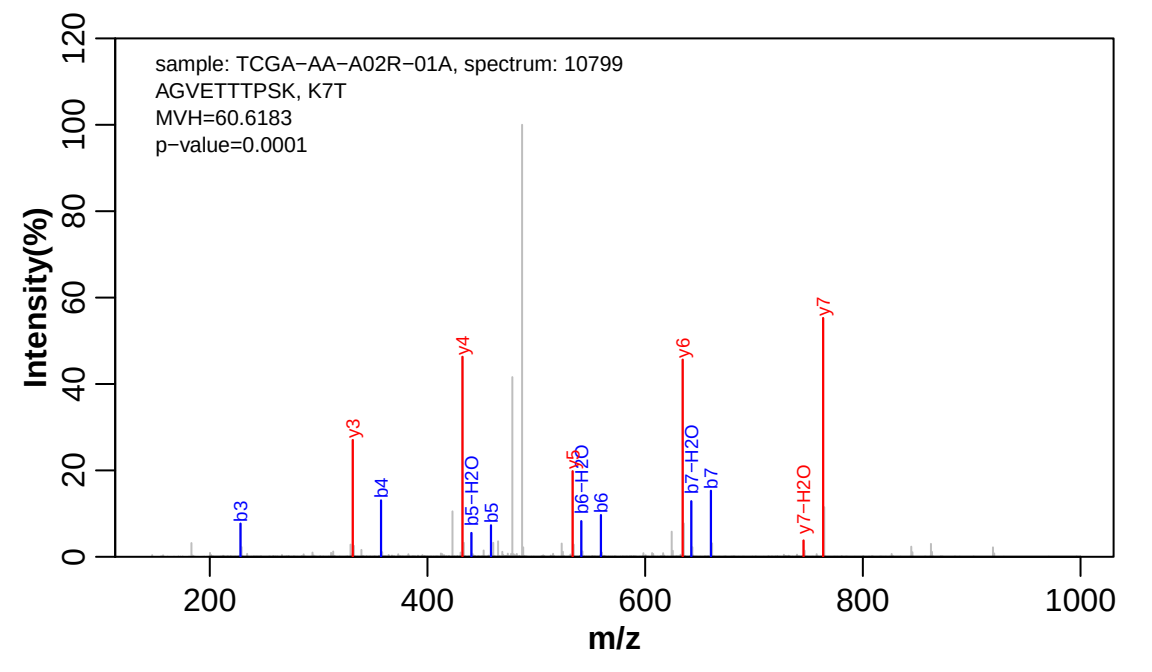

sample: TCGA−AA−A02O−01A, spectrum: 30259
VYGDLLYTPAK, H7Y
MVH=51.6590
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4
b4
b5
b5−NH3
y5−NH3
y5
y6
b6
b7−H2O
b7
b8−H2O
b8
b10
y10
y9

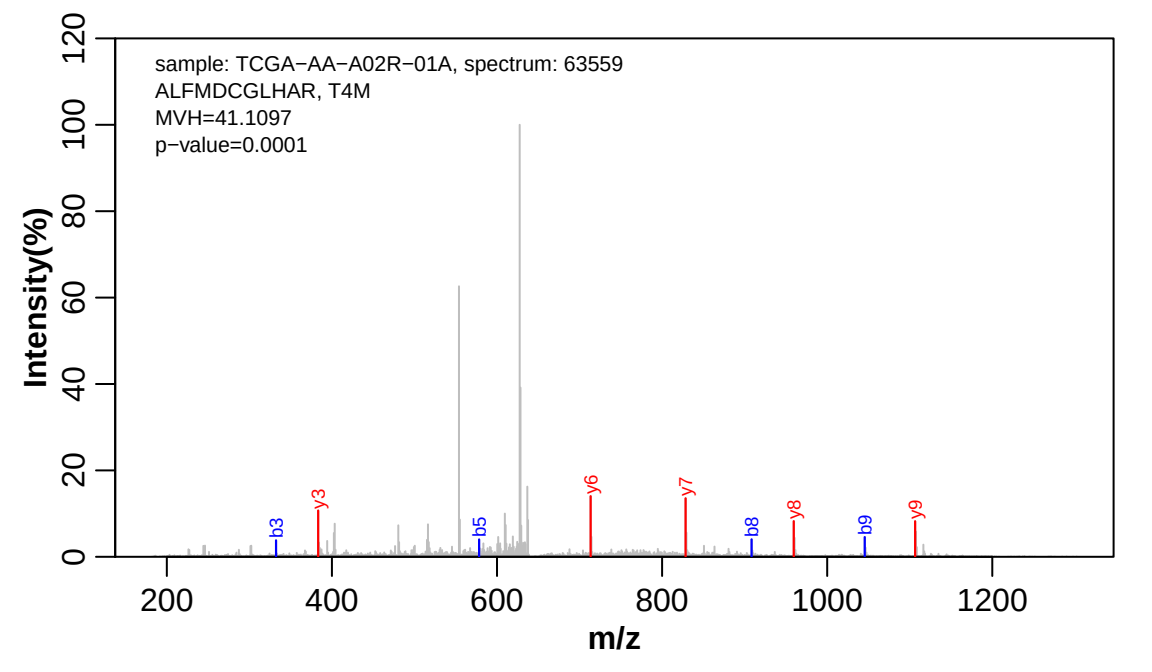

sample: TCGA−AA−A02O−01A, spectrum: 24714
WLLLCNPGLANTLVEK, D11N
MVH=76.0343
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
y4
b4
y5
b5
y6
y7
b6−NH3
b6
b8−NH3
y8
y10−H2O
y10
b10−NH3
b10
y11
y12−NH3
y12
y13
b13−NH3
b13
b14
b15

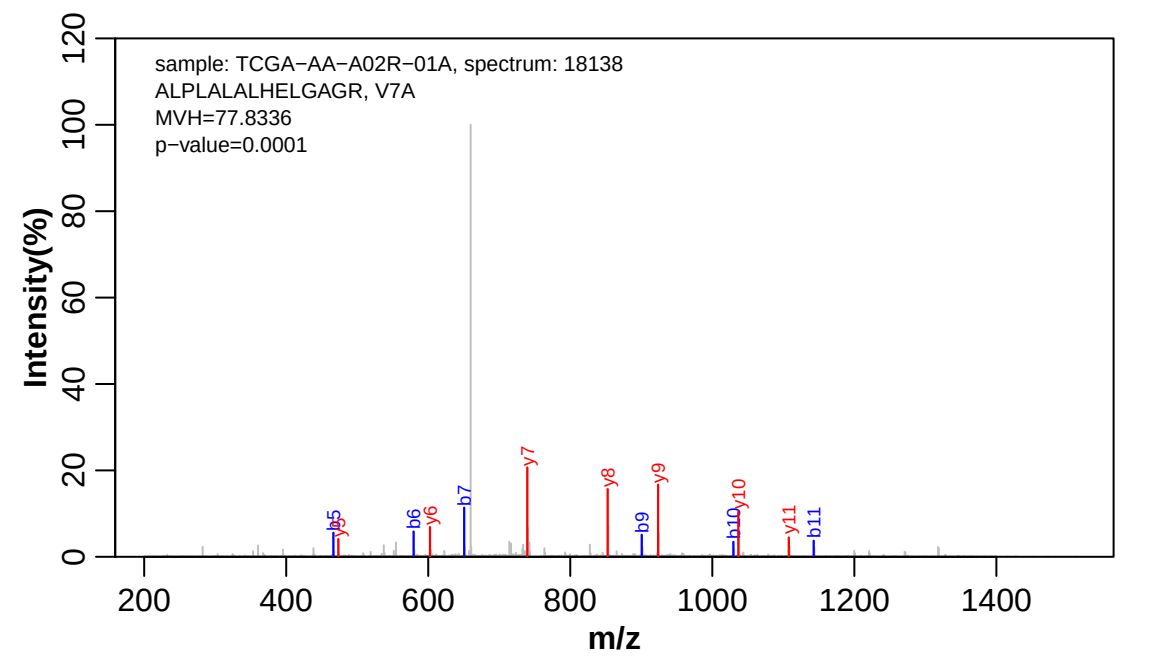

sample: TCGA−AA−A02O−01A, spectrum: 98772
YVSLLYTNYEAGKDDYVK, I2V
MVH=26.1912
p−value=0.0001
b16++−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

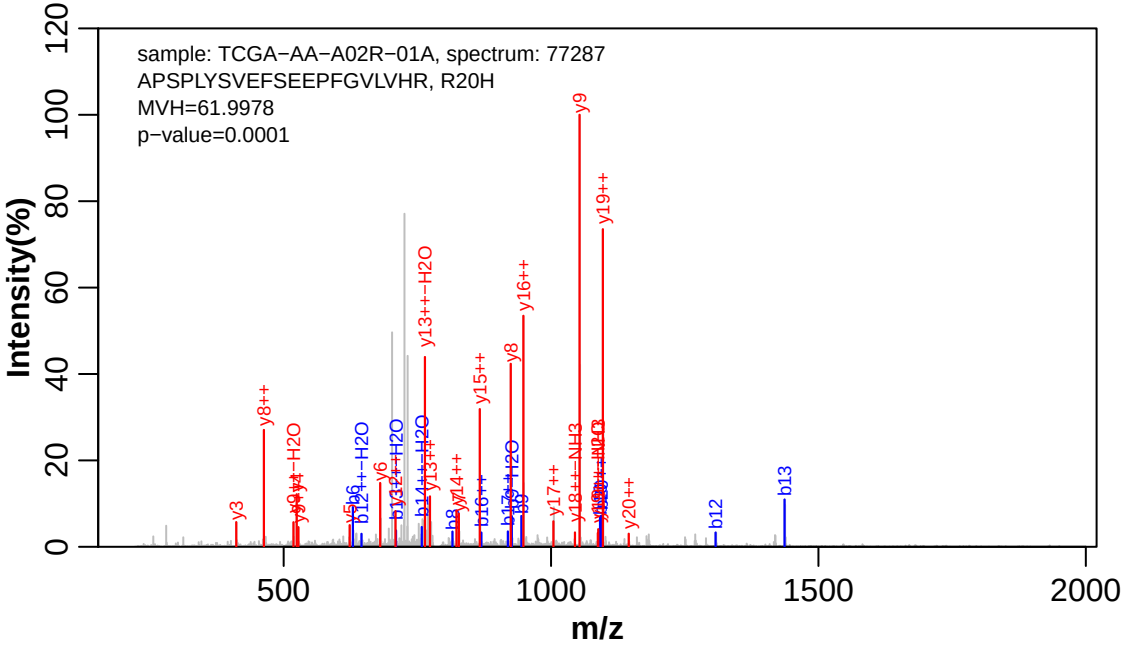

sample: TCGA−AA−A02R−01A, spectrum: 56304
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=39.4417
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b27++−H2O
b28++−H2O
b26++
b27++
b20++−H2O
b18++−H2O
b18++−NH3
b9
b8
b7
b6
y9
y6
y5
y4
b11−NH3
b13−H2O

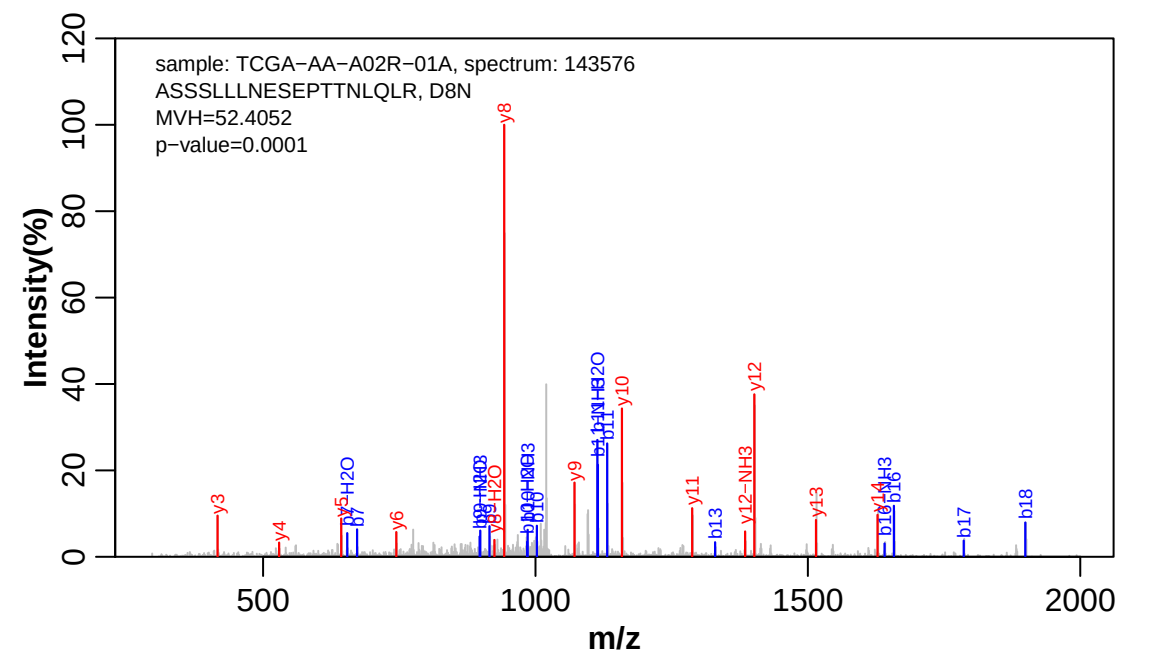

sample: TCGA−AA−A02R−01A, spectrum: 36916
AAPSVTLFPPSSEELQANK, T2A
MVH=58.2196
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7−H2O
b7
b8−H2O
b8
y10
y11
y12
y13
y14

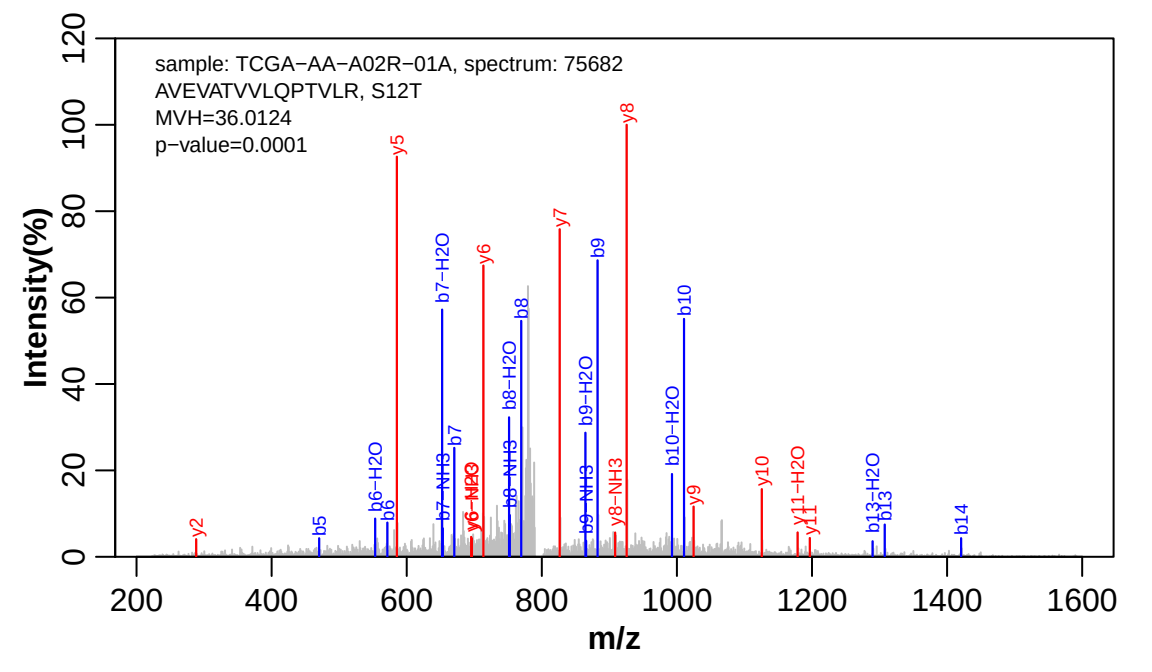

sample: TCGA−AA−A02R−01A, spectrum: 10799
AGVETTTPSK, K7T
MVH=60.6183
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−H2O
y7

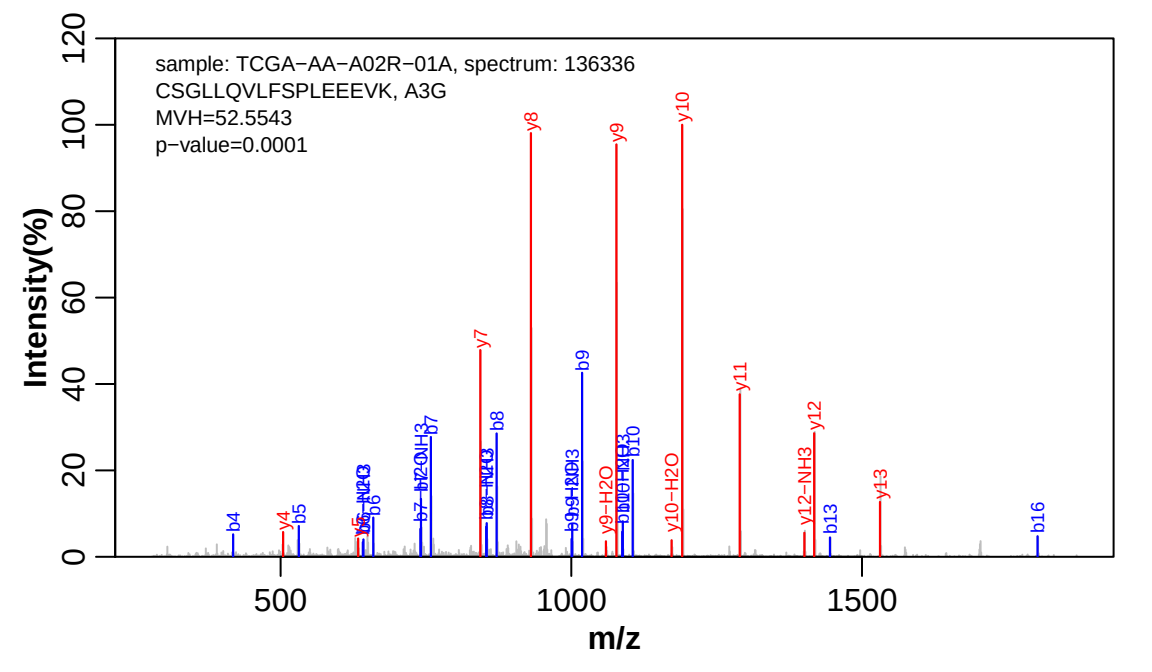

sample: TCGA−AA−A02R−01A, spectrum: 63559
ALFMDCGLHAR, T4M
MVH=41.1097
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
y3
b5
y6
y7
b8
y8
b9
y9

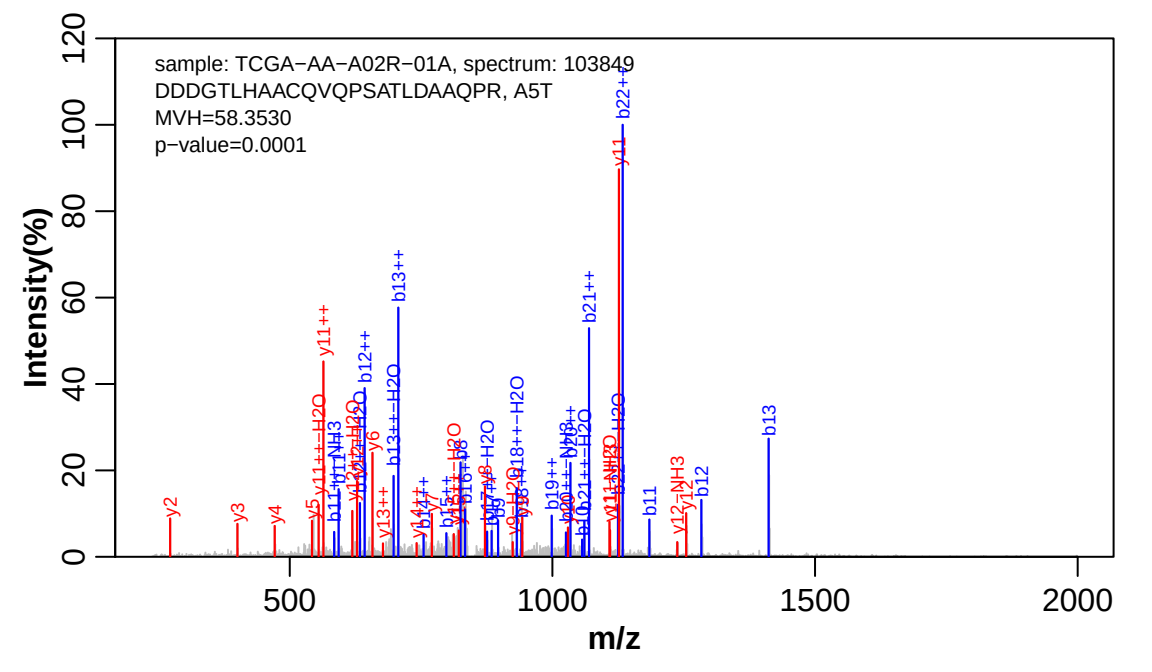

sample: TCGA−AA−A02R−01A, spectrum: 18138
ALPLALALHELGAGR, V7A
MVH=77.8336
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y5
b5
b6
y6
b7
y7
y8
b9
y9
b10
y10
y11
b11

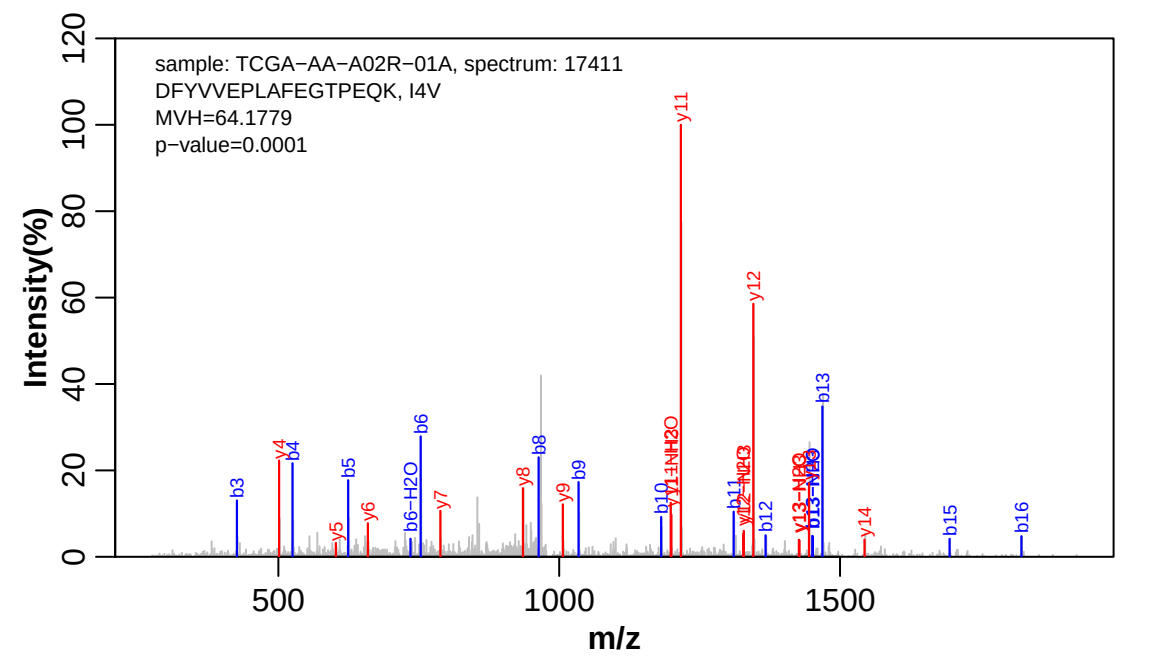

sample: TCGA−AA−A02R−01A, spectrum: 77287
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=61.9978
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y9
y19++
y13++−H2O
y16++
y8++
y15++
y8
y17++
y20++
b13
b12
y3
y6
b12++−H2O
y13++
y14++
b16++
y18++−NH3

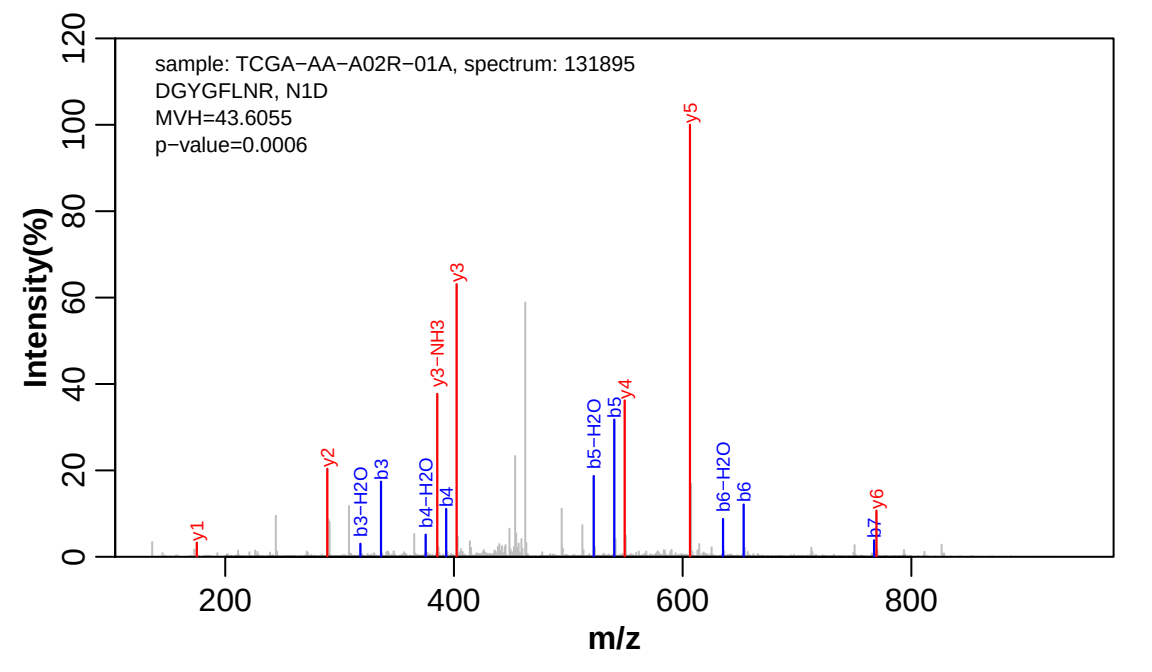

sample: TCGA−AA−A02R−01A, spectrum: 143576
ASSSLLLNESEPTTNLQLR, D8N
MVH=52.4052
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
y5
y6
y9
y10
y11
y12
y13
b13
b17
b18
H2O
NH3

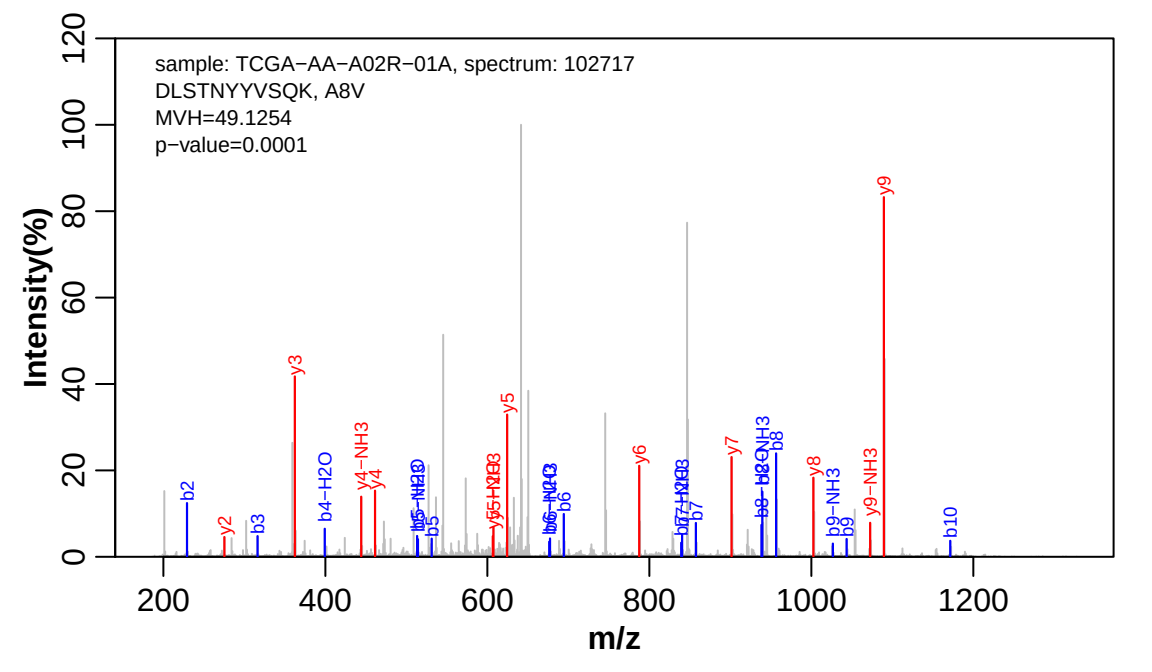

sample: TCGA−AA−A02R−01A, spectrum: 75682
AVEVATVVLQPTVLR, S12T
MVH=36.0124
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5
b6−H2O
b6
b7−NH3
b7
y5
b7−H2O
y6−NH3
y6
b8−NH3
b8
b8−H2O
y6
y7
b9
b9−NH3
b9−H2O
y8−NH3
y8
b10−H2O
b10
y9
y10
y11−H2O
y11
b13−H2O
b13
b14

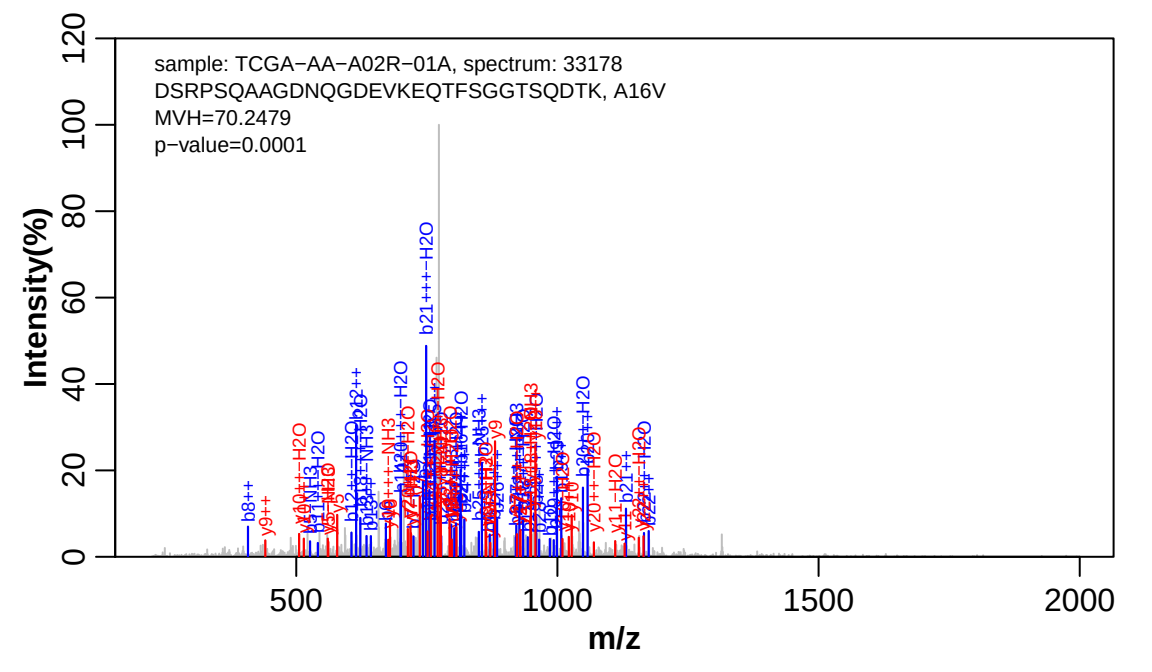

sample: TCGA−AA−A02R−01A, spectrum: 136336
CSGLLQVLFSPLEEEVK, A3G
MVH=52.5543
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y7
b9
y11
y12
b8
b7
b10
y9−H2O
y10−H2O
y12−NH3
y13
b4
y4
b5
b13
b16

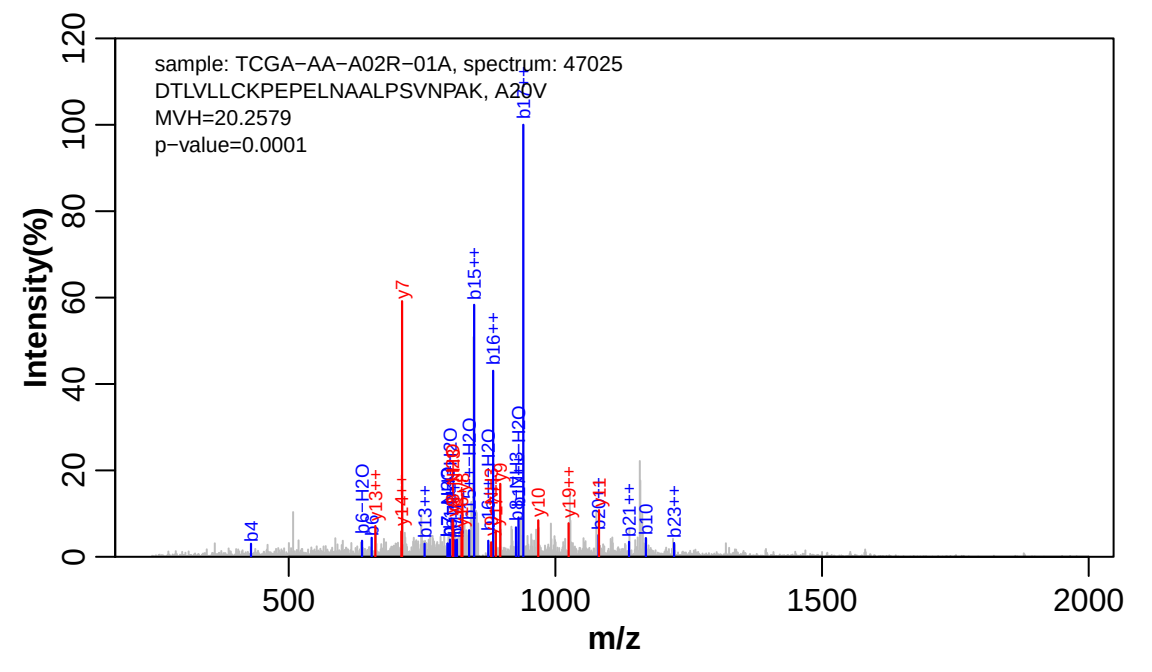

sample: TCGA−AA−A02R−01A, spectrum: 103849
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=58.3530
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y5
y11++−H2O
y11++
b11++NH3
b12++
y6
b13++
b13++−H2O
y13++
b21++
b22++
y11
b11
b13
b12
y12−NH3

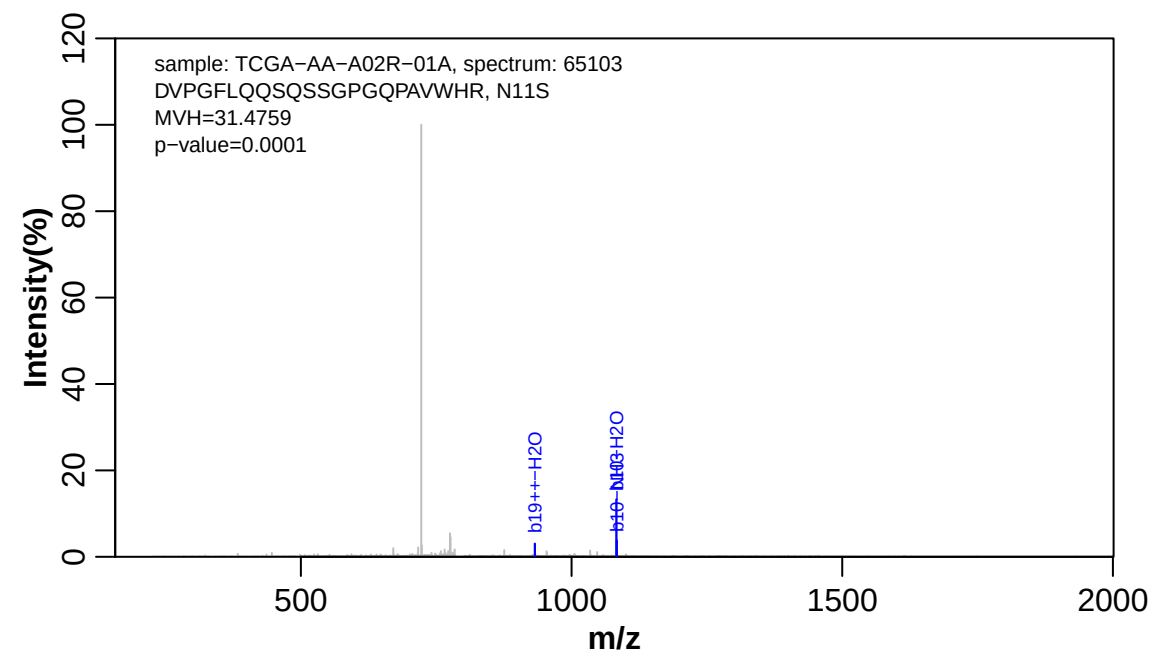

sample: TCGA−AA−A02R−01A, spectrum: 17411
DFYVVEPLAFEGTPEQK, I4V
MVH=64.1779
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y5
y6
b6
b6−H2O
y7
y8
b8
y9
b9
b10
y11−NH2O
y11
b11
y12−NH3
y12
b12
y13−NH3
y13−NH3
b13
y14
b15
b16

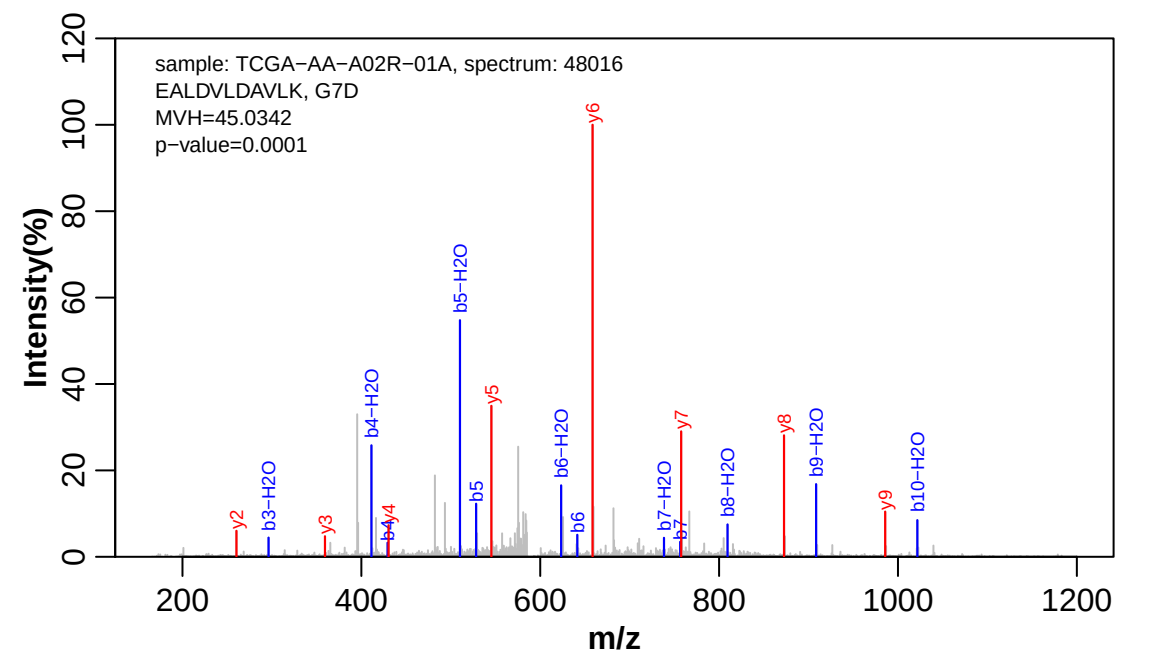

sample: TCGA−AA−A02R−01A, spectrum: 131895
DGYGFLNR, N1D
MVH=43.6055
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

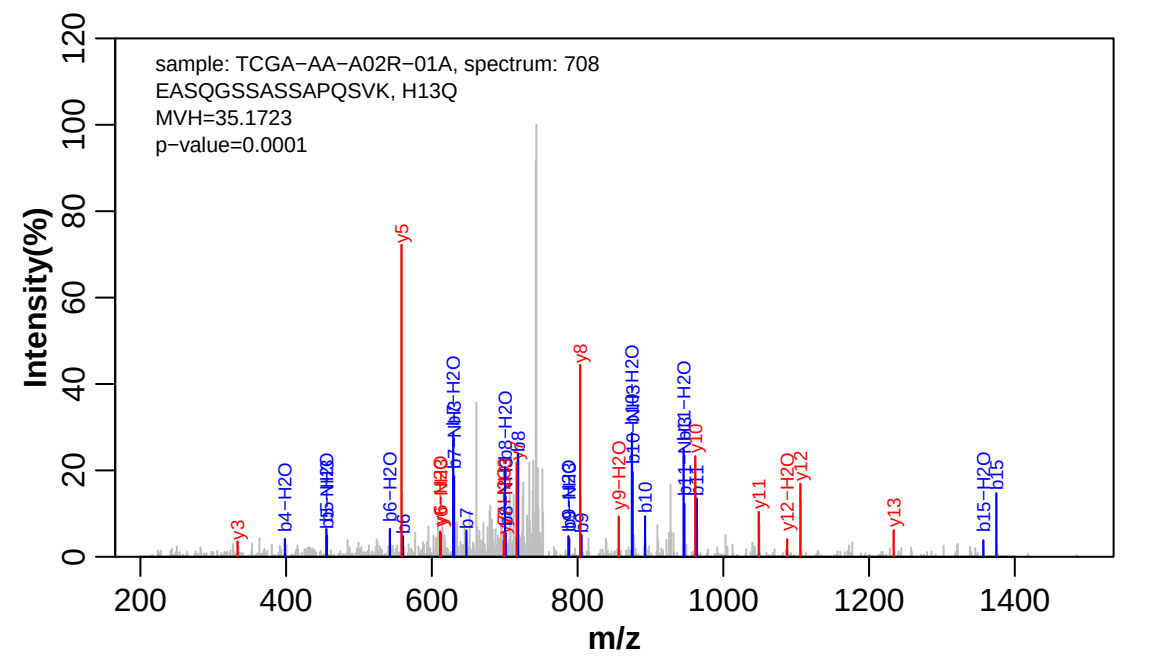

sample: TCGA−AA−A02R−01A, spectrum: 102717
DLSTNYYVSQK, A8V
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−H2O
y4−NH3
y4
y5
y6
b6
b7
y7
b8
b8−NH3
y8
b9−NH3
b9
y9
y9−NH3
b10

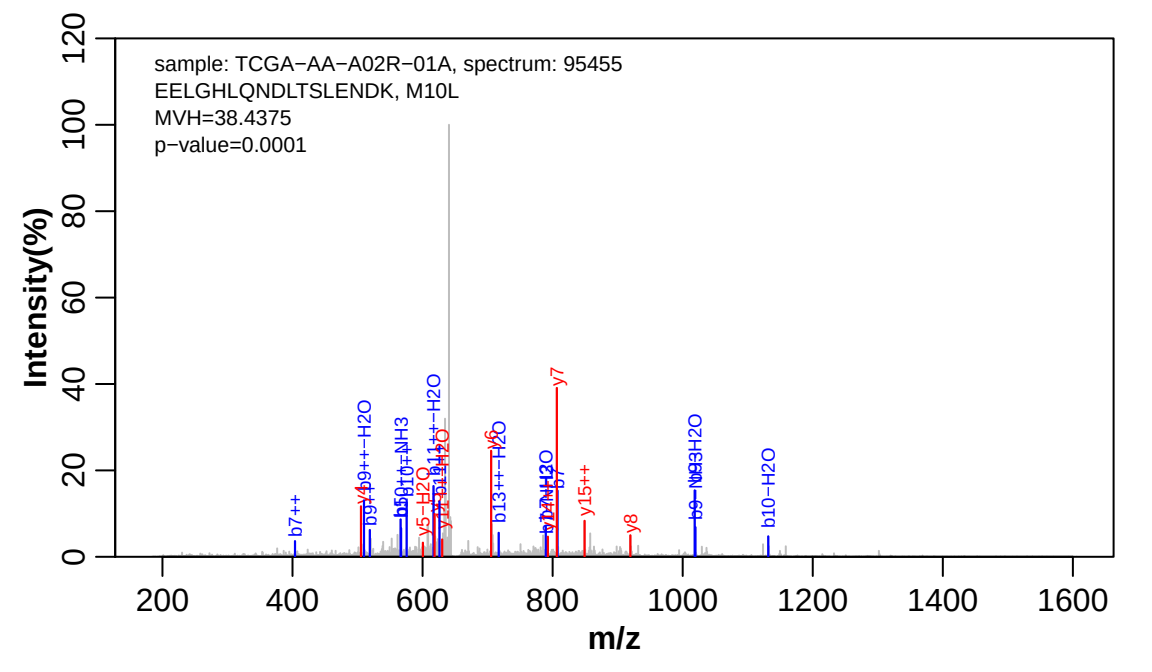

sample: TCGA−AA−A02R−01A, spectrum: 33178
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=70.2479
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21+++−H2O
b8++
y9++

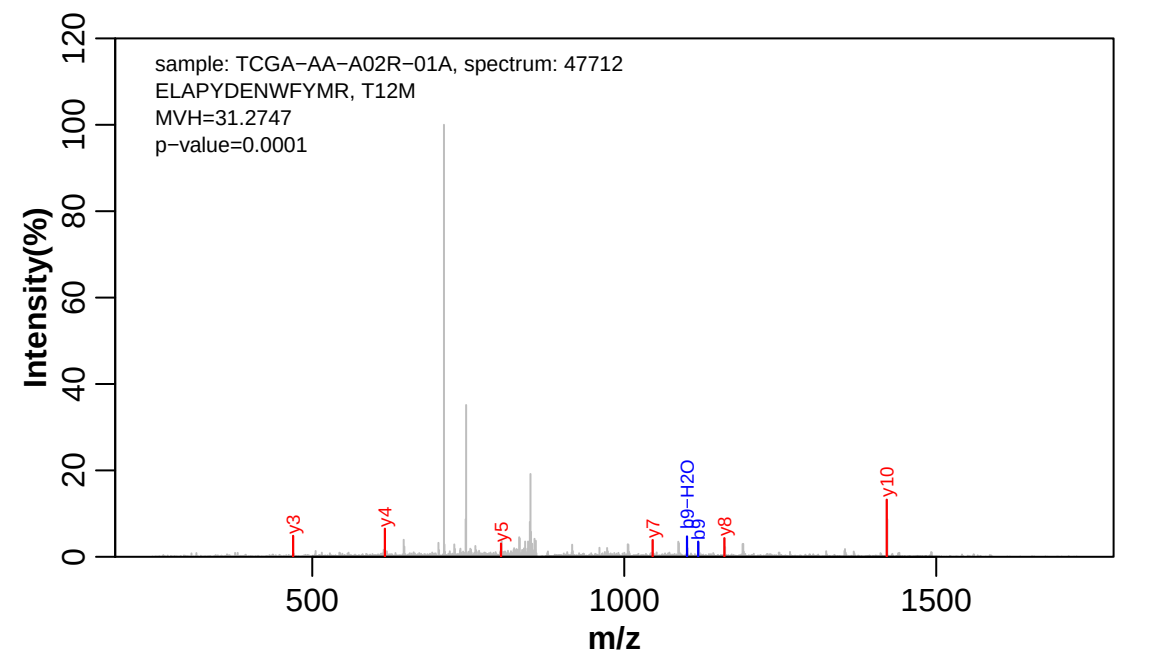

sample: TCGA−AA−A02R−01A, spectrum: 47025
DTLVLLCKPEPELNAALPSVNPAK, A20V
MVH=20.2579
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
b6−H2O
y13++
y14++
y7
b13++
b15++
b16++
y10
y19++
b21++
b10
b23++

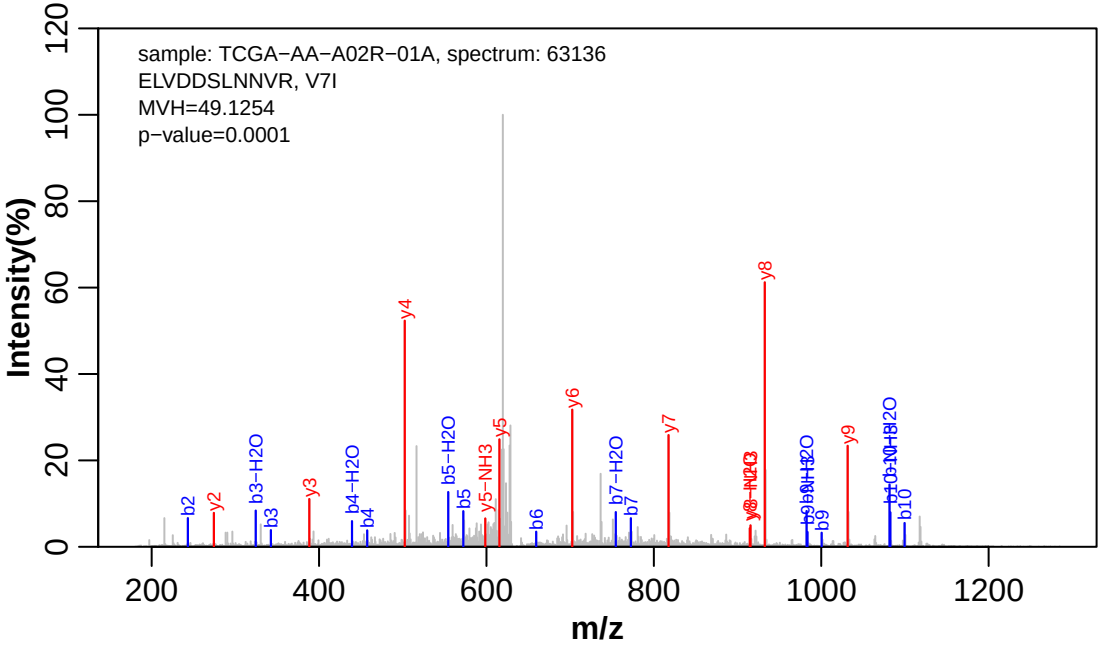

sample: TCGA−AA−A02R−01A, spectrum: 65103
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=31.4759
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b19++−H2O
b19++
b19−NH3−H2O

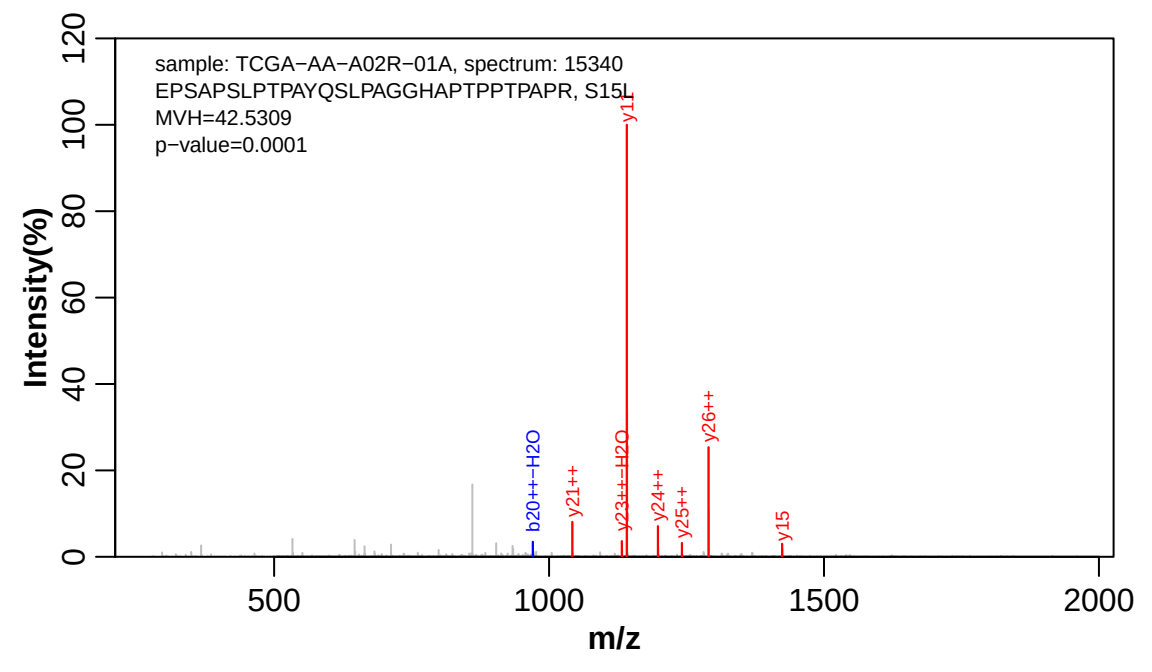

sample: TCGA−AA−A02R−01A, spectrum: 48016
EALDVLDAVLK, G7D
MVH=45.0342
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
b4/y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
y8
b9−H2O
y9
b10−H2O

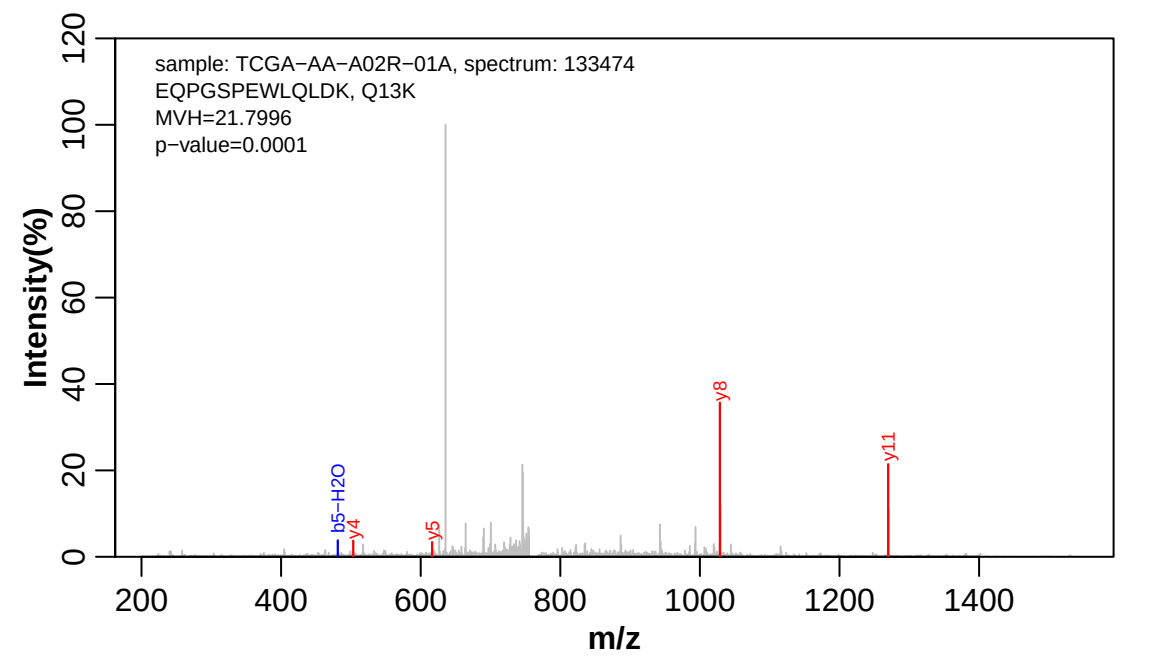

sample: TCGA−AA−A02R−01A, spectrum: 708
EASQGSSASSAPQSVK, H13Q
MVH=35.1723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4−H2O
b6−H2O
b6
y5
b7
b7−NH3−H2O
y8
y9−H2O
b10
b10−NH3−H2O
b11−H2O
y10
y11
y12−H2O
y12
y13
b15−H2O
b15

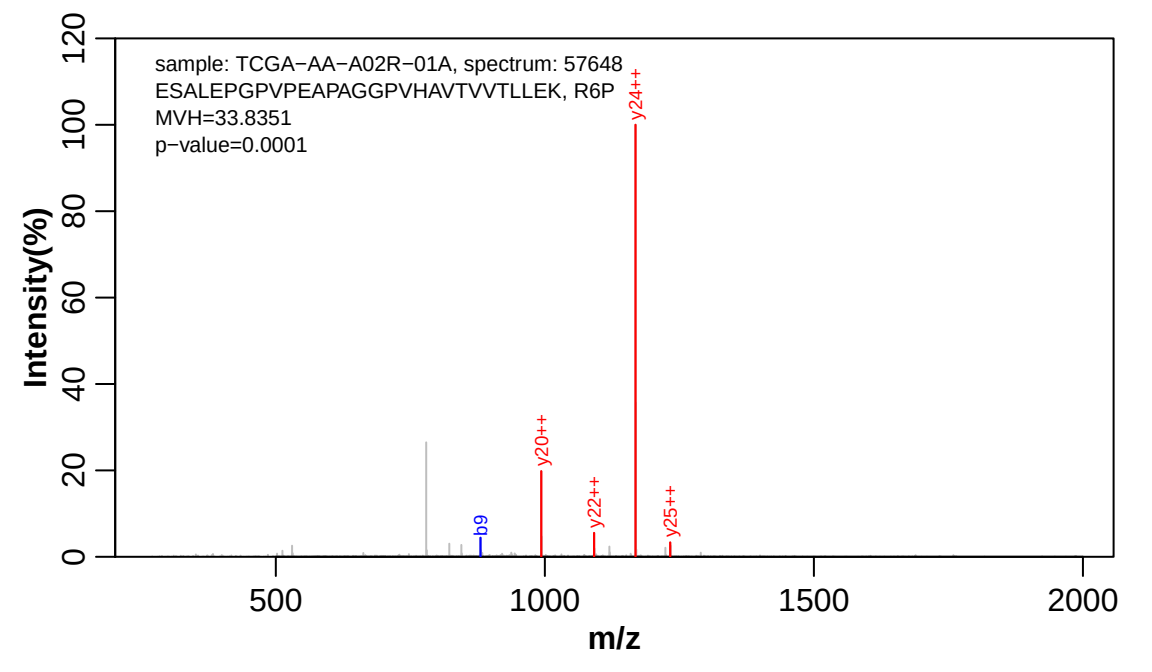

sample: TCGA−AA−A02R−01A, spectrum: 95455
EELGHLQNDLTSLENDK, M10L
MVH=38.4375
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7++
y10++−H2O
b9++
b5++
b10++−NH3
y5−H2O
y11++−H2O
y12++
b13++−H2O
y6
y7
y15++
y8
b9−NH3−H2O
b10−H2O

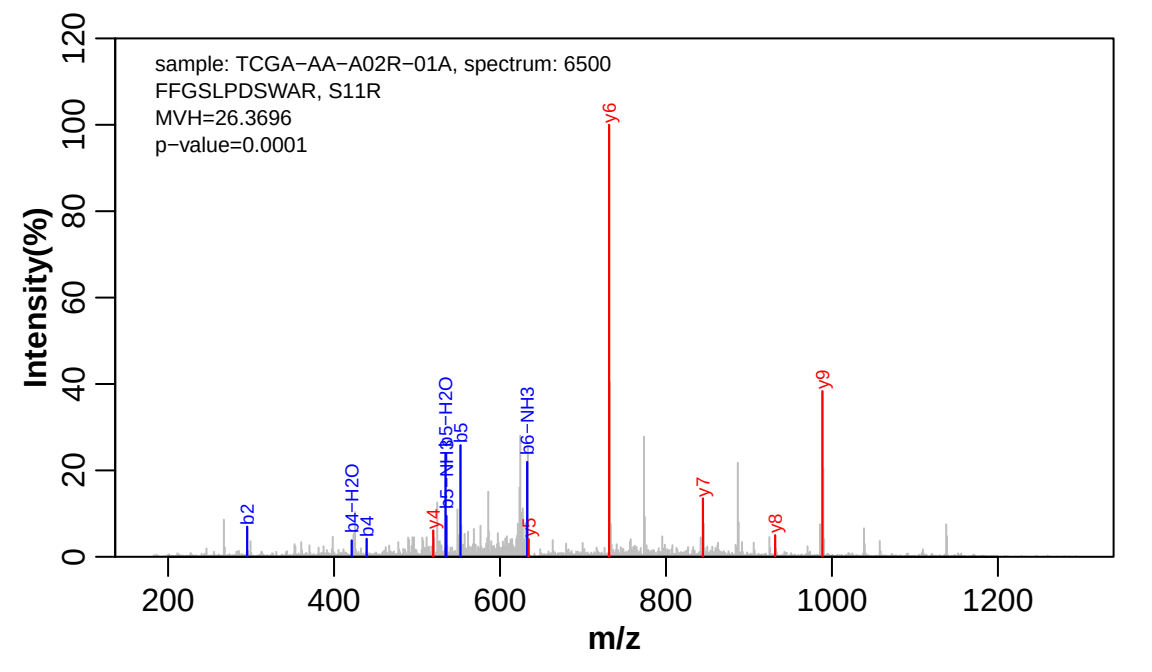

sample: TCGA−AA−A02R−01A, spectrum: 47712
ELAPYDENWFYMR, T12M
MVH=31.2747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y7
b9
b9−H2O
y8
y10

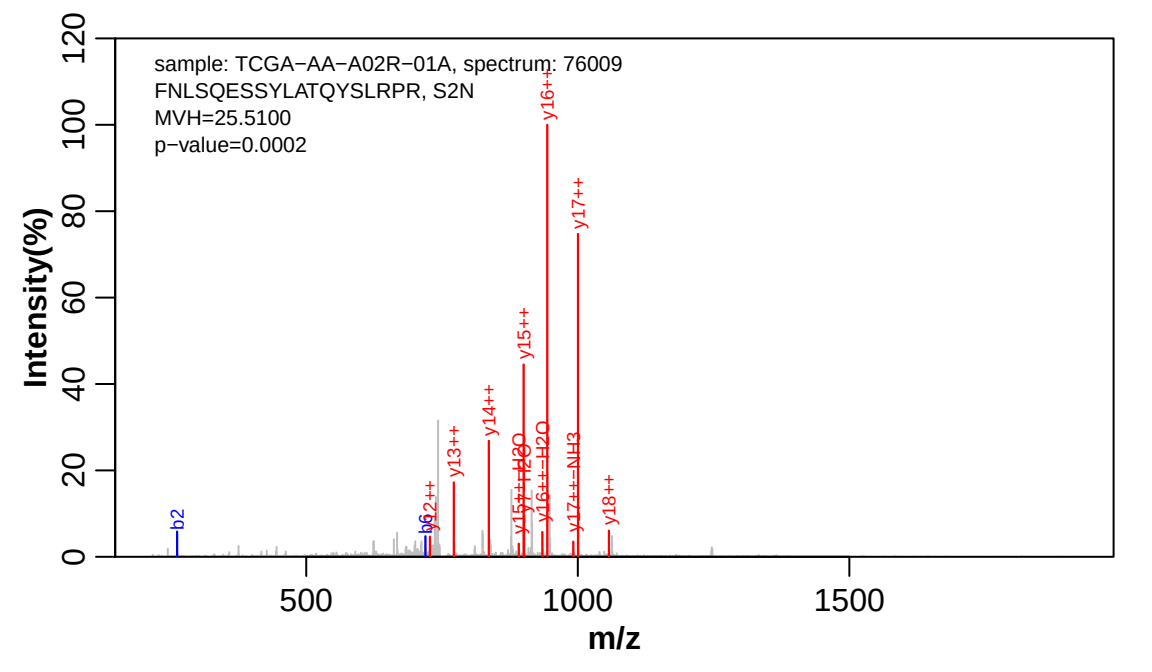

sample: TCGA−AA−A02R−01A, spectrum: 63136
ELVDDSLNNVR, V7I
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
b6
y6
b7−H2O
b7
y7
y8
b9
y9
b10

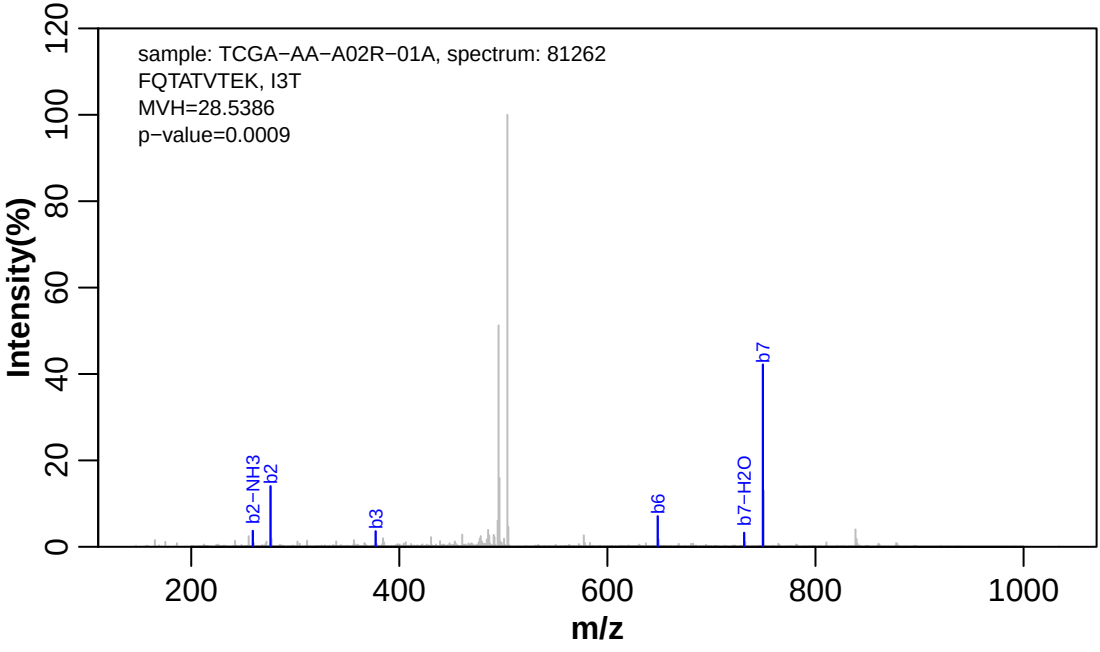

sample: TCGA−AA−A02R−01A, spectrum: 15340
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=42.5309
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
b20++−H2O
y21++
y23++−H2O
y24++
y25++
y26++
y15

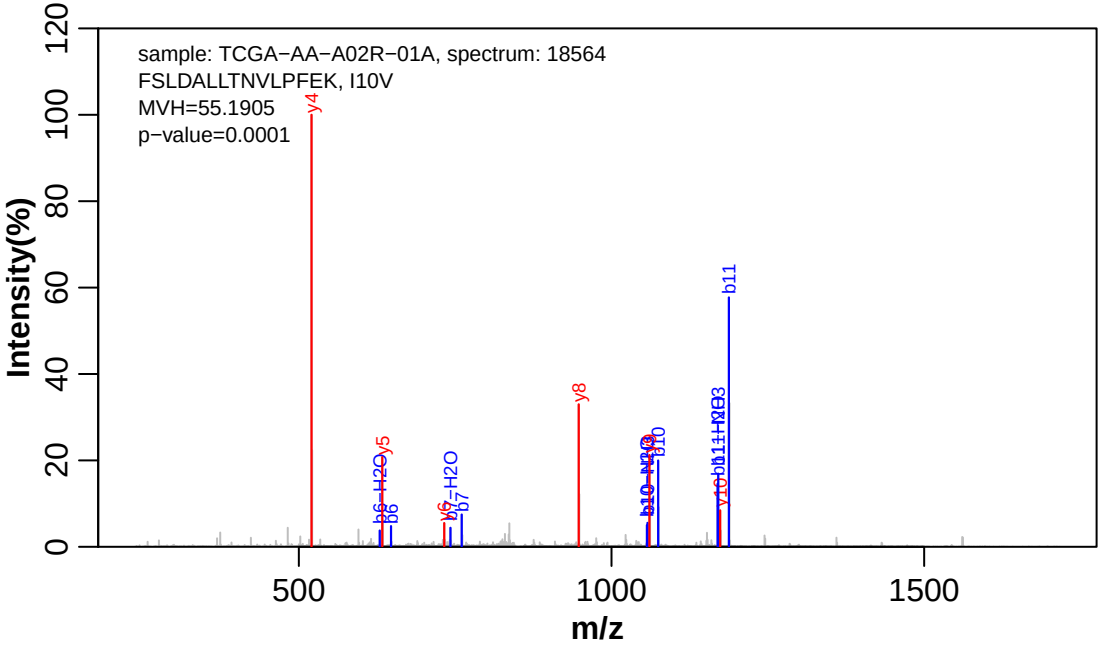

sample: TCGA−AA−A02R−01A, spectrum: 133474
EQPGSPEWLQLDK, Q13K
MVH=21.7996
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

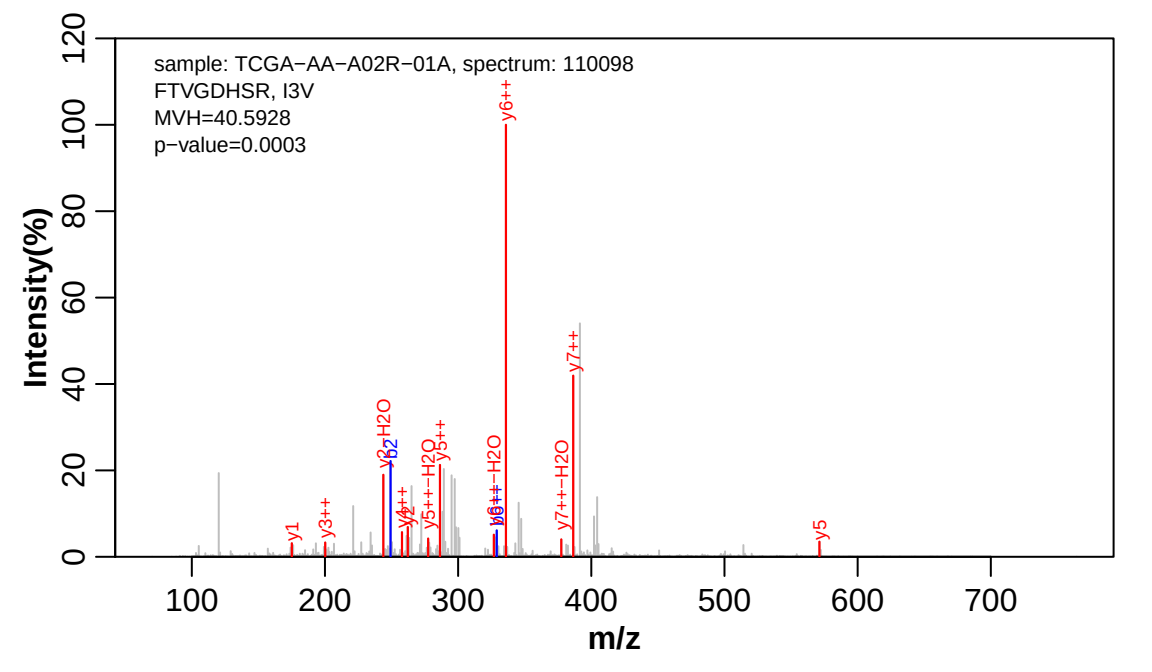

sample: TCGA−AA−A02R−01A, spectrum: 57648
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=33.8351
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

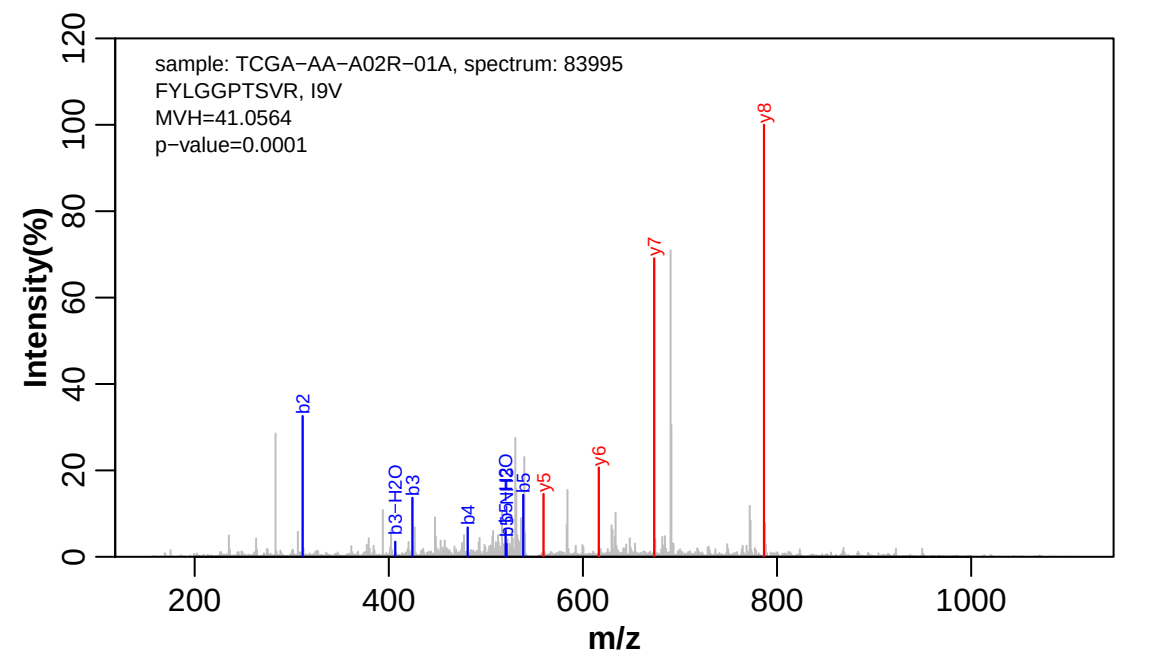

sample: TCGA−AA−A02R−01A, spectrum: 6500
FFGSLPDSWAR, S11R
MVH=26.3696
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y6
b6−NH3
y5
y7
y8
y9

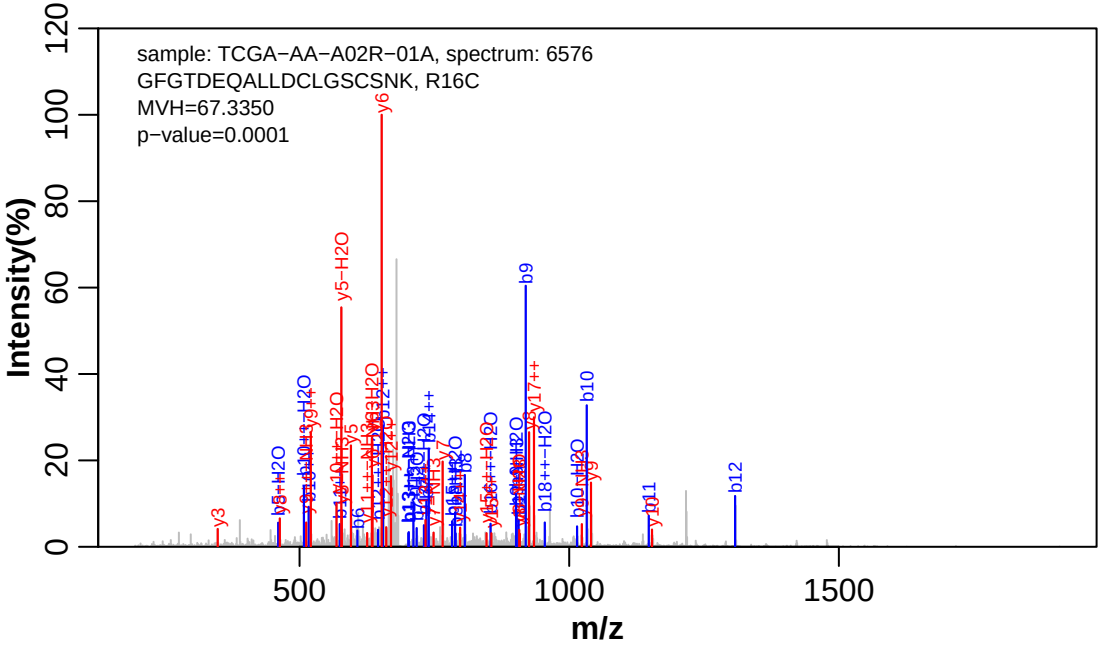

sample: TCGA−AA−A02R−01A, spectrum: 76009
FNLSQESSYLATQYSLRPR, S2N
MVH=25.5100
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
y2++
y13++
y14++
y15++
y15++−H2O
y15++−NH3
y16++−H2O
y16++
y17++−NH3
y17++
y18++

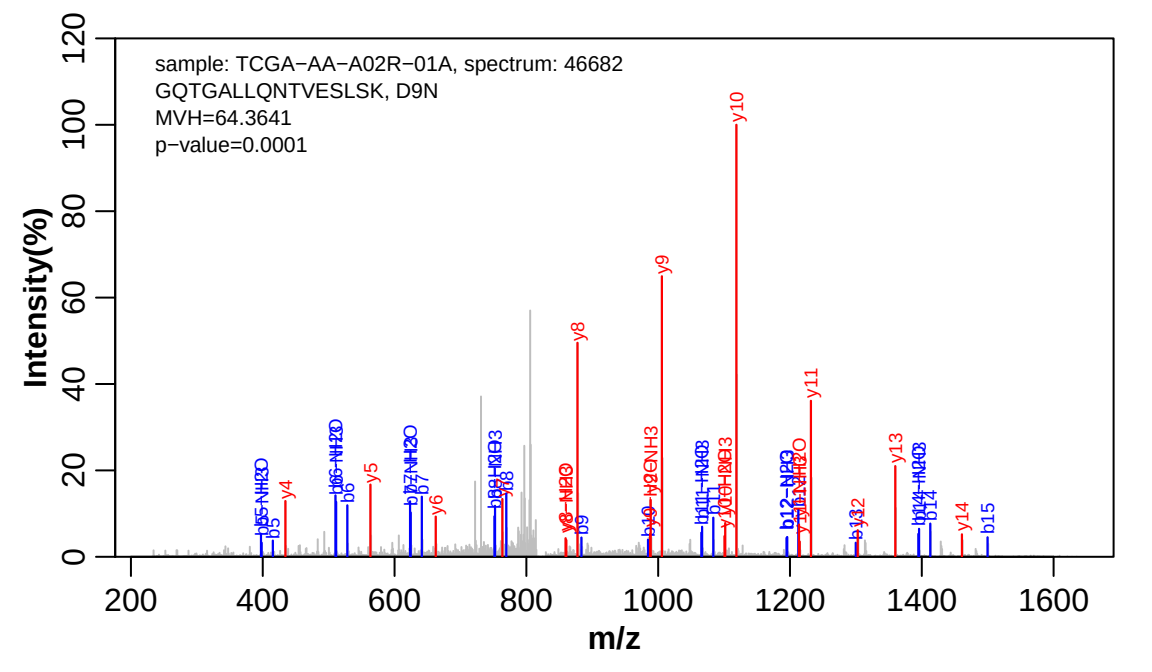

sample: TCGA−AA−A02R−01A, spectrum: 81262
FQTATVTEK, I3T
MVH=28.5386
p−value=0.0009
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b6
b7−H2O
b7

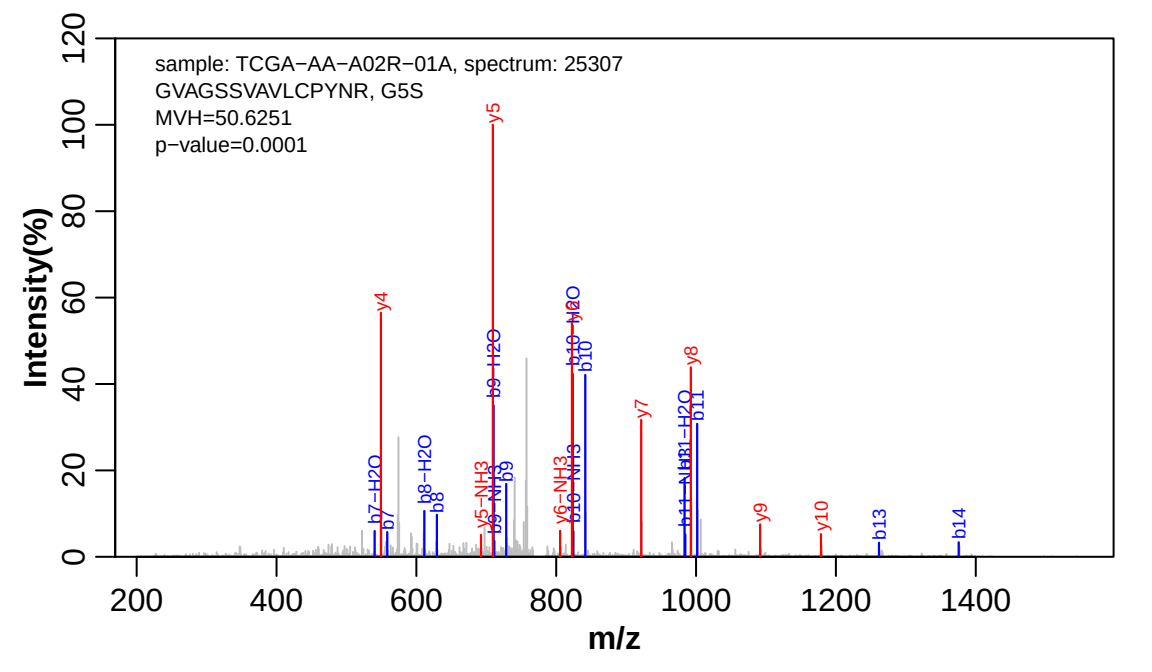

sample: TCGA−AA−A02R−01A, spectrum: 18564
FSLDALLTNVLPFEK, I10V
MVH=55.1905
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y8
b11
y5
b6
b7
b10

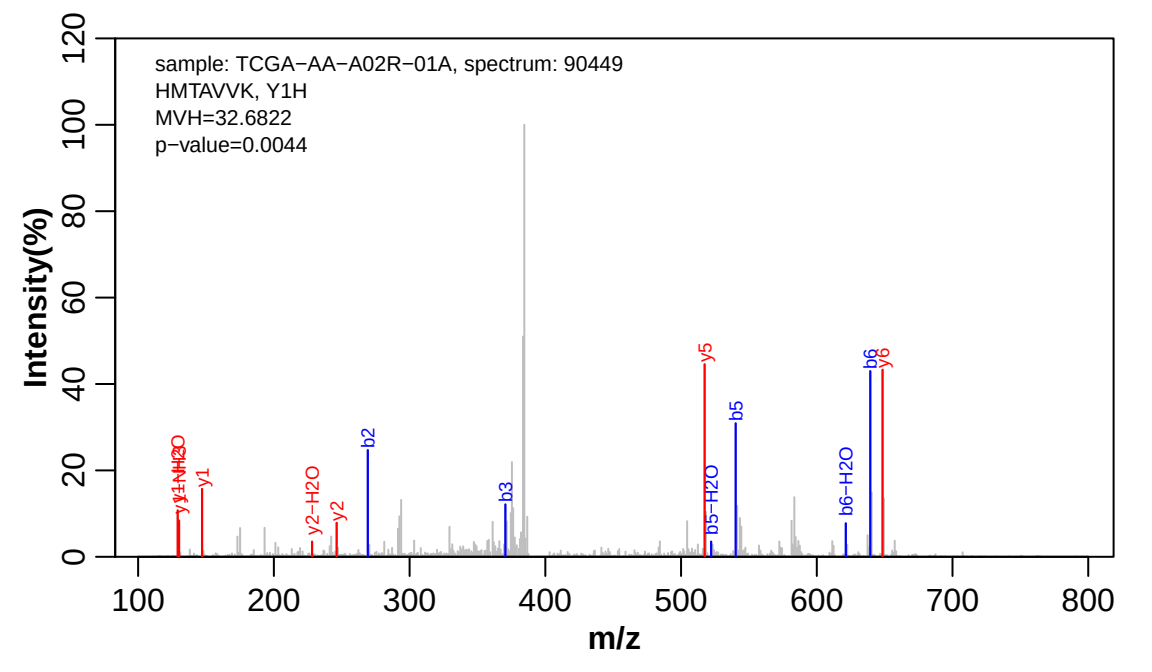

sample: TCGA−AA−A02R−01A, spectrum: 110098
FTVGDHSR, I3V
MVH=40.5928
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y2++−H2O
b2
y5++
y5++−H2O
y6++−H2O
y7++−H2O
y1
y3++
y4++
y2++
y5
0
20
40
60
80
100
120
100
200
300
400
500
600
700

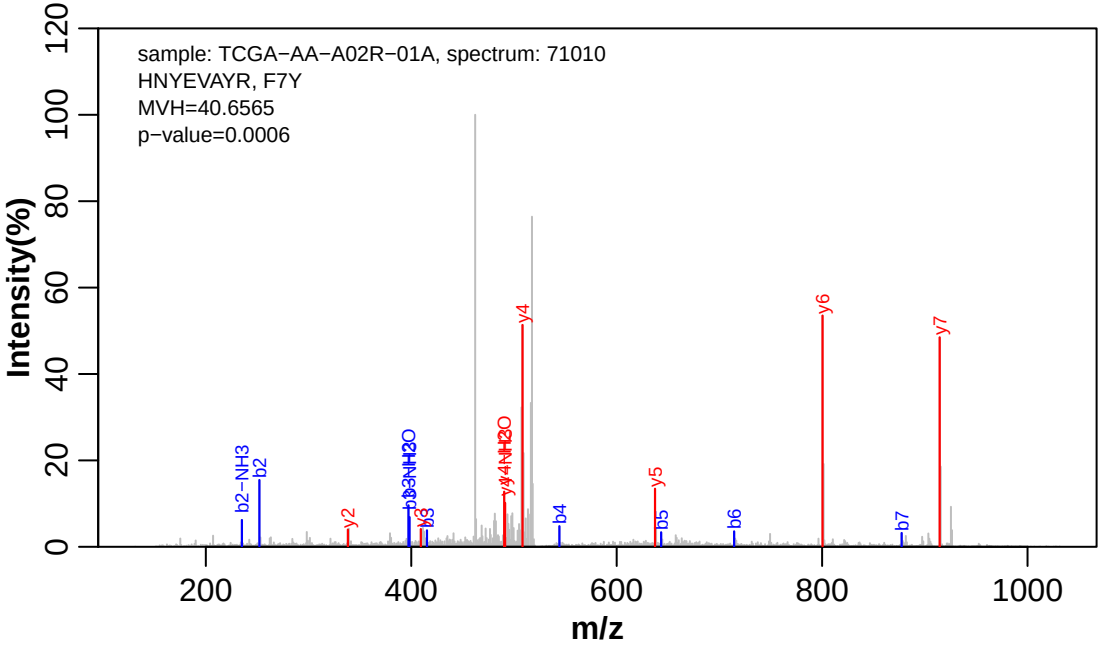

sample: TCGA−AA−A02R−01A, spectrum: 83995
FYLGGPTSVR, I9V
MVH=41.0564
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
b3
b4
b5−NH3
b5−H2O
b5
y5
y6
y7
y8

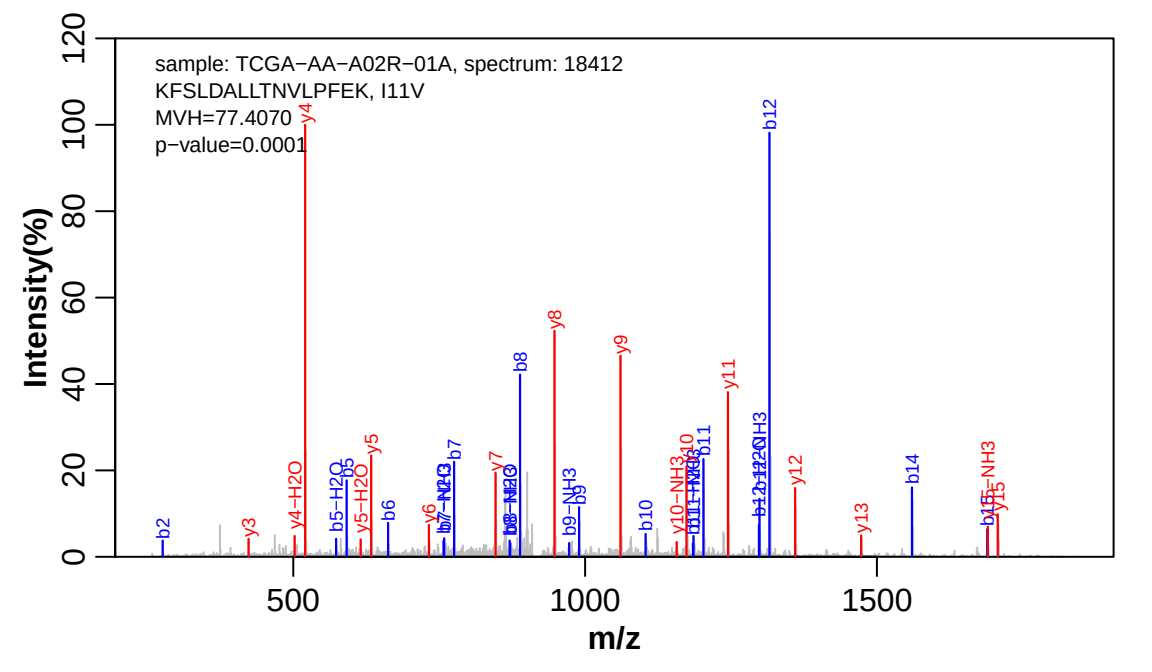

sample: TCGA−AA−A02R−01A, spectrum: 6576
GFGTDEQALLDCLGSCSNK, R16C
MVH=67.3350
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y3
b5+H2O
y9
y10
y11
b18++−H2O
y17++

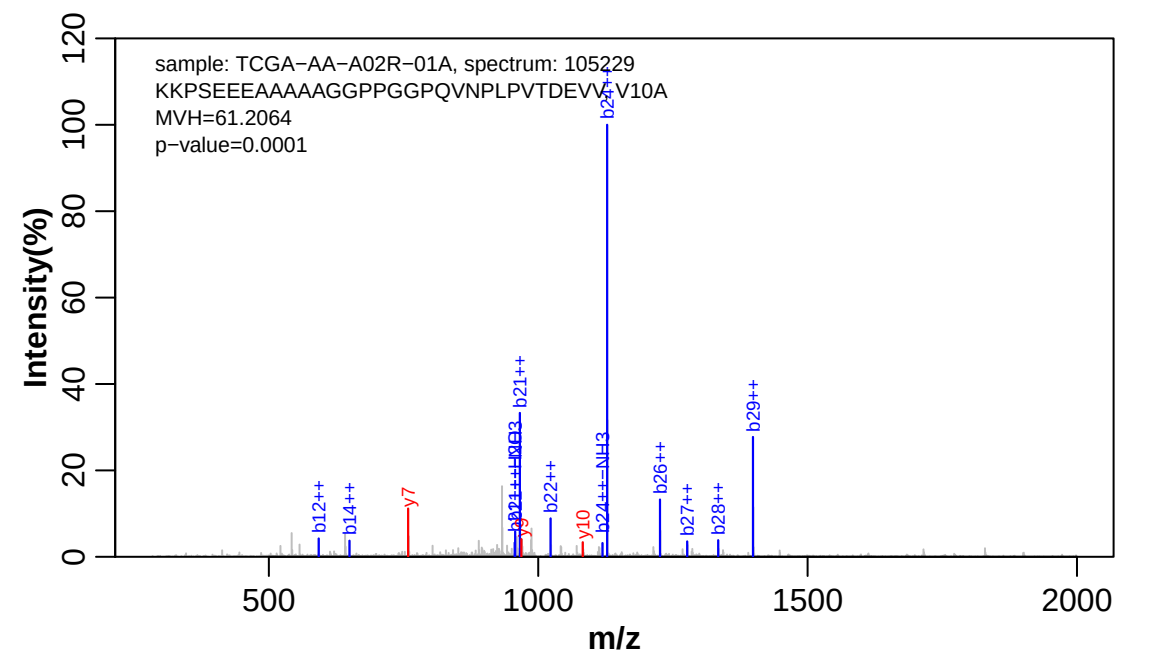

sample: TCGA−AA−A02R−01A, spectrum: 46682
GQTGALLQNTVESLSK, D9N
MVH=64.3641
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y4
y5
y6
b6
b7
b8
b12
b13
b14

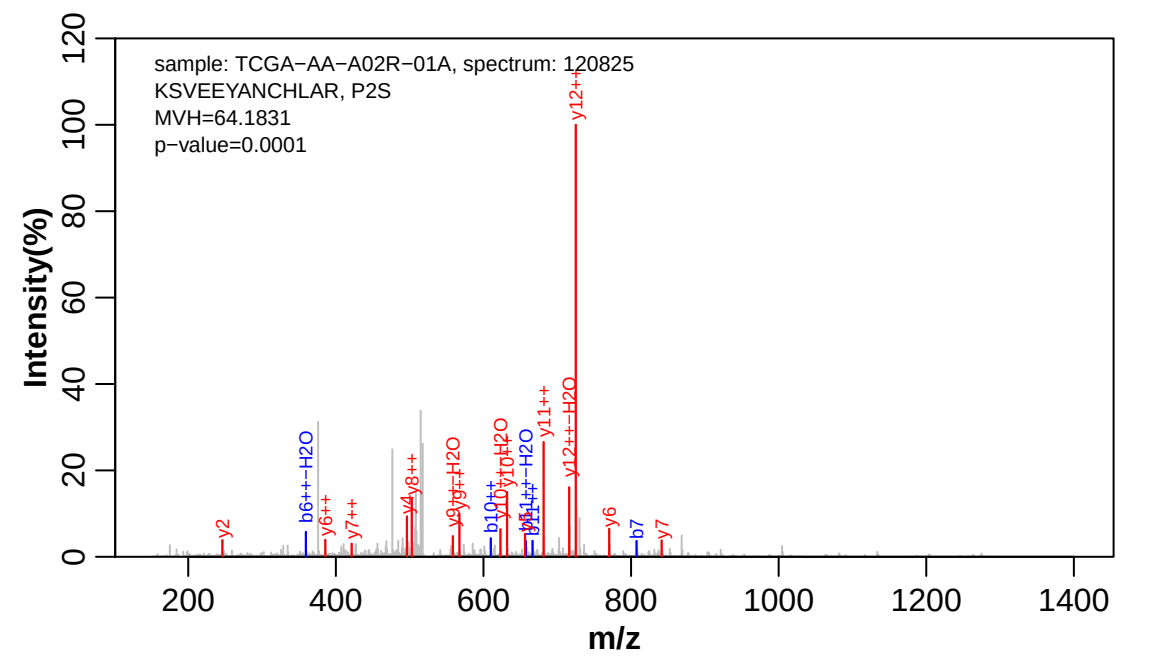

sample: TCGA−AA−A02R−01A, spectrum: 25307
GVAGSSVAVLCPYNR, G5S
MVH=50.6251
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
y8
y7
y9
y10
b13
b14
b7−H2O
b7
b8−H2O
b8
b9−H2O
b9
b10−H2O
b10
b11−H2O
b11
y5−NH3
y6−NH3
b10−NH3

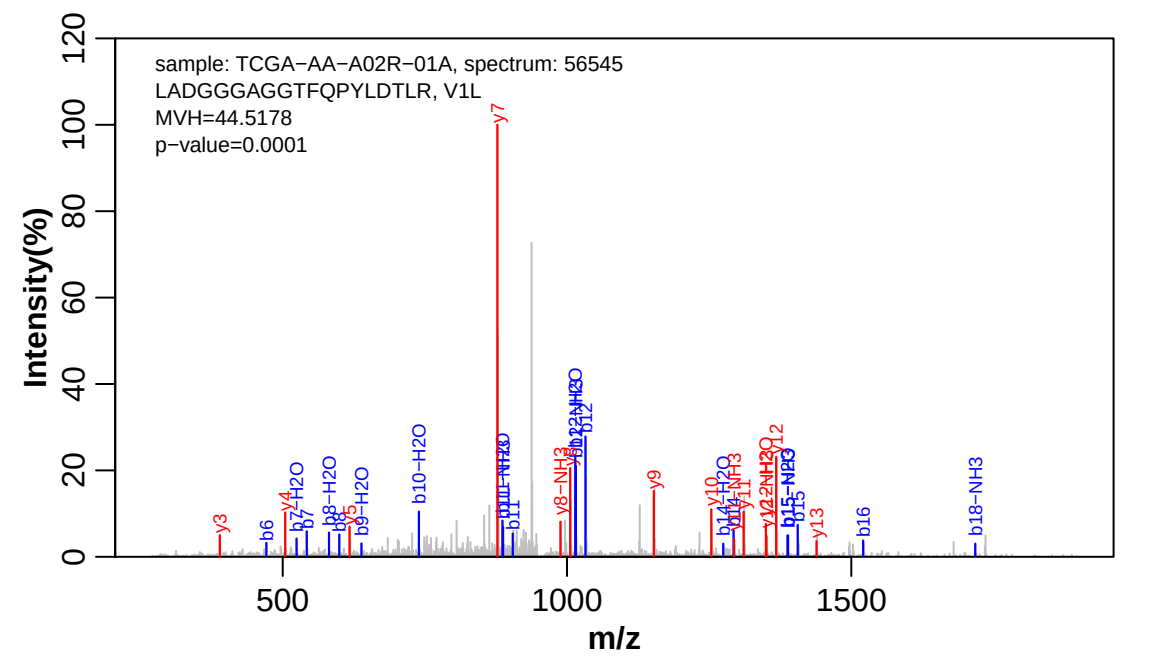

sample: TCGA−AA−A02R−01A, spectrum: 90449
HMTAVVK, Y1H
MVH=32.6822
p−value=0.0044
Intensity(%)
m/z
y1−NH2
y1
y2−H2O
y2
b2
b3
y5
b5
b5−H2O
b6−H2O
b6
y6

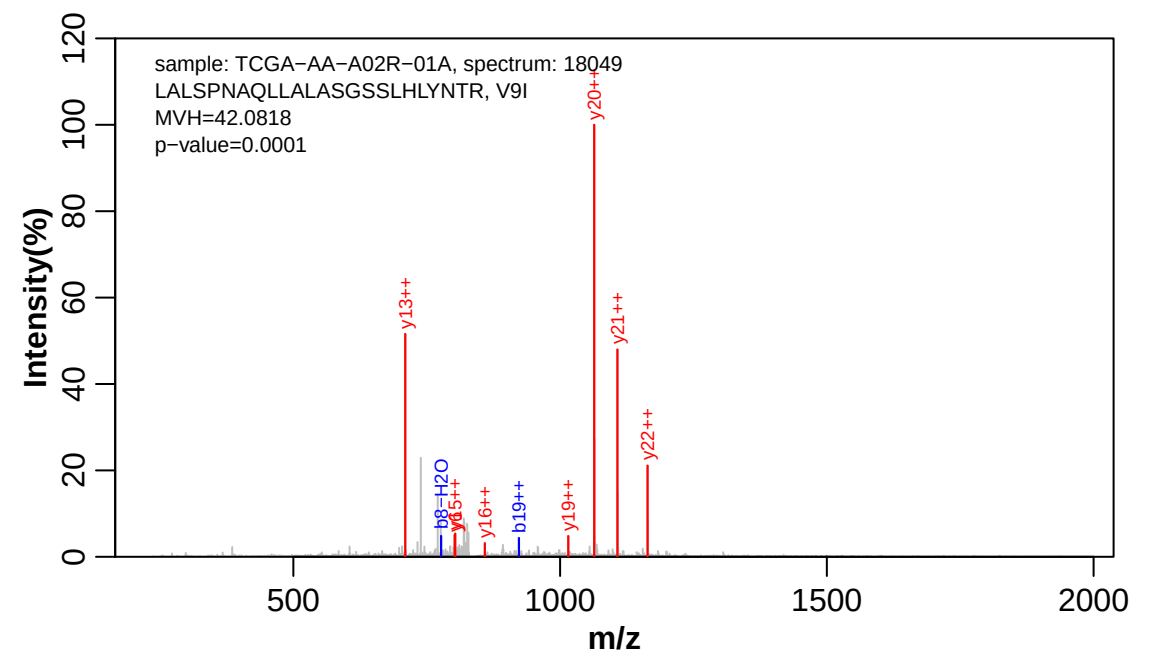

sample: TCGA−AA−A02R−01A, spectrum: 71010
HNYEVAYR, F7Y
MVH=40.6565
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2−NH3
b2
y2
b3−NH3
b3−H2O
b3
y3
y4−NH3
y4−H2O
y4
b4
y5
b5
b6
y6
b7
y7

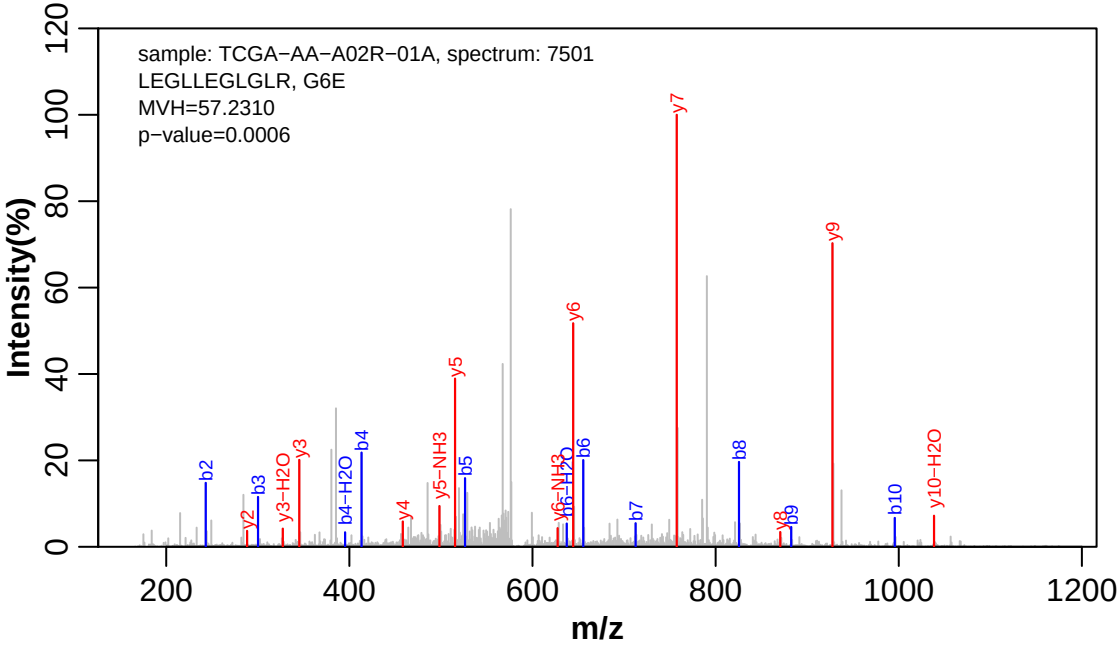

sample: TCGA−AA−A02R−01A, spectrum: 18412
KFSLDALLTNVLPFEK, I11V
MVH=77.4070
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y4−H2O
y4
b5−H2O
b5
y5−H2O
y5
b6
y6
b7
y7
b8
y8
b9−NH3
b9
y9
b10
y10−NH3
y10
b11
y11
b12
y12
y13
b14
b15−NH3
y15

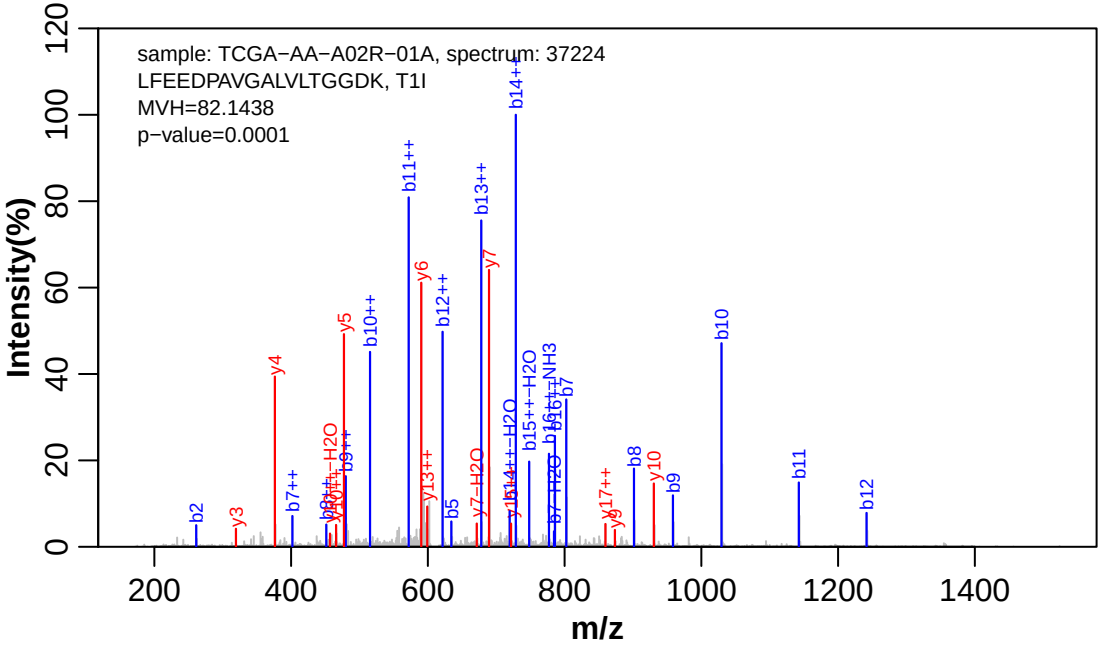

sample: TCGA−AA−A02R−01A, spectrum: 105229
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=61.2064
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b12++
b14++
y7
b21++
b22++
y10
b24++−NH3
b26++
b27++
b28++
b29++
b24++

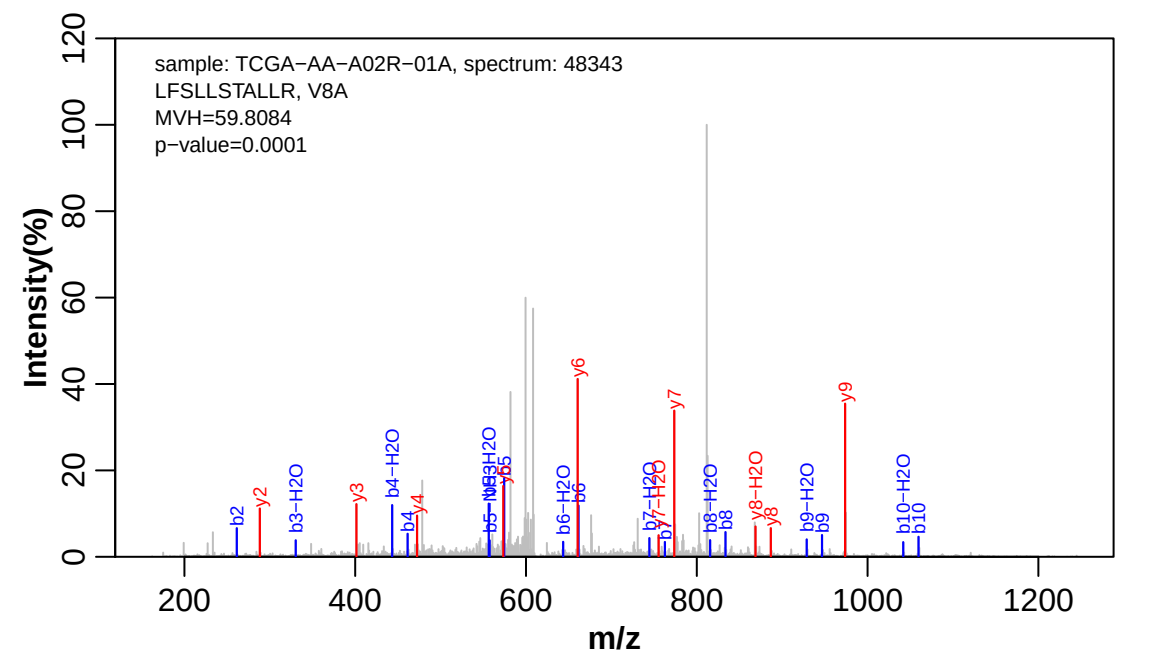

sample: TCGA−AA−A02R−01A, spectrum: 120825
KSVEEYANCHLAR, P2S
MVH=64.1831
p−value=0.0001
Intensity(%)
m/z
y12++
y12++−H2O
y11++
y10++−H2O
y9++−H2O
y8++
y7++
y6++
b6++−H2O
b10++
b11++−H2O
y2
y4
y6
b7
y7

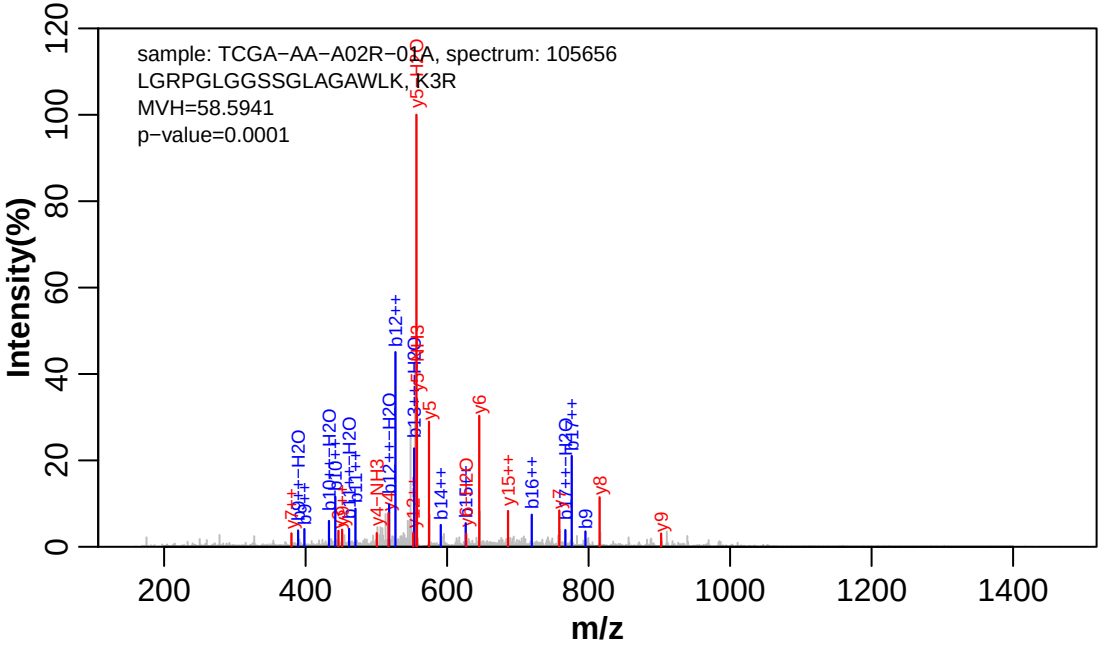

sample: TCGA−AA−A02R−01A, spectrum: 56545
LADGGGAGGTFQPYLDTLR, V1L
MVH=44.5178
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
b6
y4
b7
b7−H2O
b8−H2O
b9−H2O
b10−H2O
y8−NH3
b12
y9
y10
b14−H2O
y11
b15
y13
b16
b18−NH3

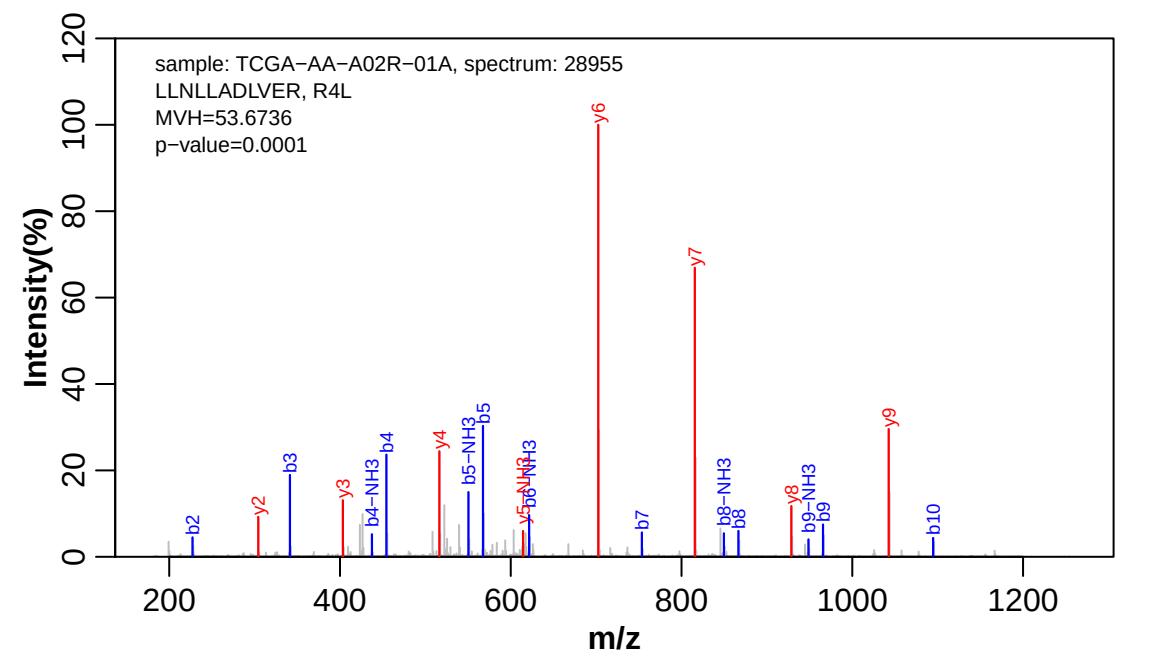

sample: TCGA−AA−A02R−01A, spectrum: 18049
LALSPNAQLLALASGSSLHLYNTR, V9I
MVH=42.0818
p−value=0.0001
y20++
y13++
y21++
y22++
b8−H2O
y15++
y16++
b19++
y19++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

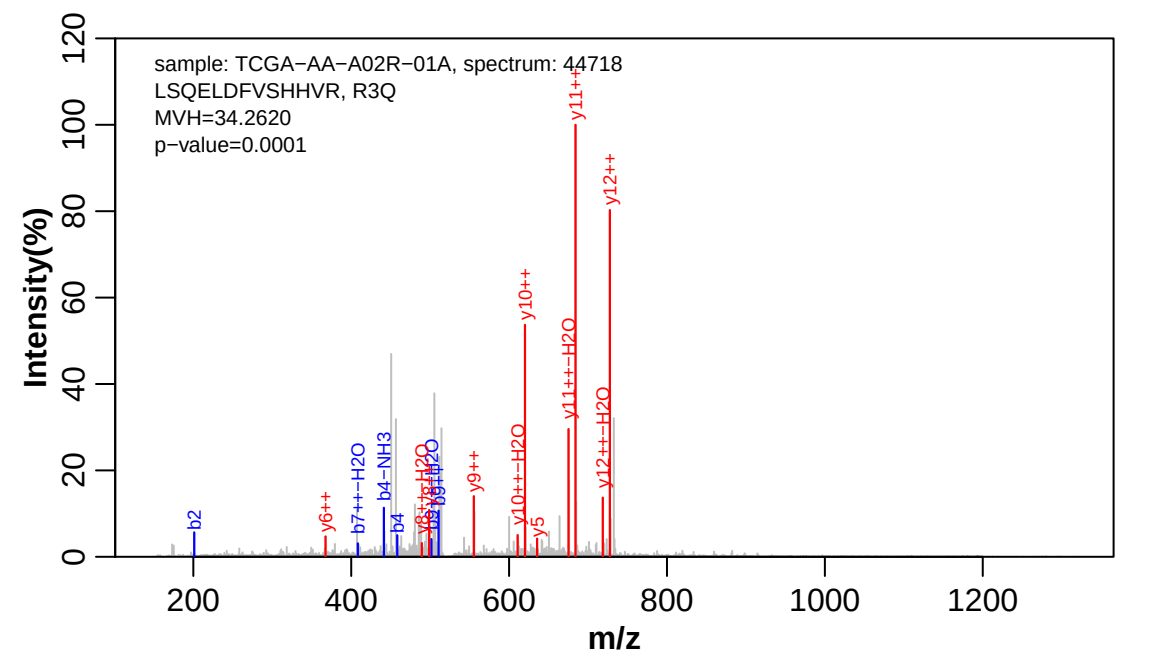

sample: TCGA−AA−A02R−01A, spectrum: 7501
LEGLLEGLGLR, G6E
MVH=57.2310
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3−H2O
y3
b4−H2O
b4
y4
y5−NH3
y5
b5
y6−NH3
y6−H2O
y6
b6
b7
y7
b8
y8
b9
y9
b10
y10−H2O

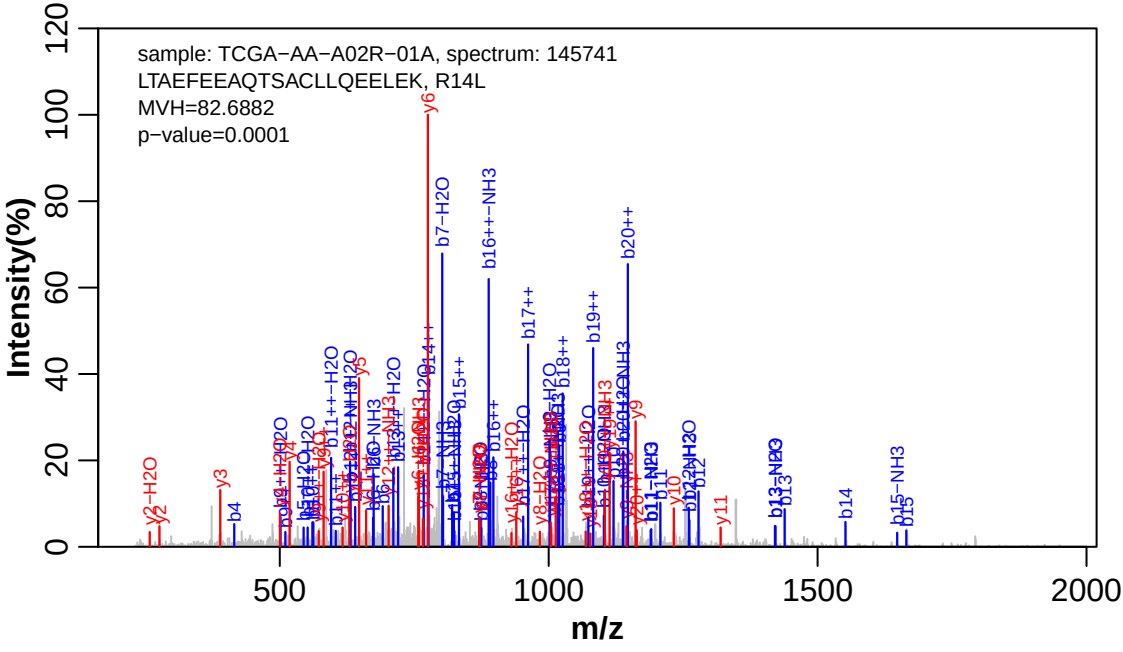

sample: TCGA−AA−A02R−01A, spectrum: 37224
LFEEDPAVGALVLTGGDK, T1I
MVH=82.1438
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b7++
y5
b10++
b11++
y6
b12++
y13++
b5
y7
b13++
b14++
y7−H2O
b15++−H2O
b15++−NH3
b7
b10
b8
y10
b9
y17++
b11
b12

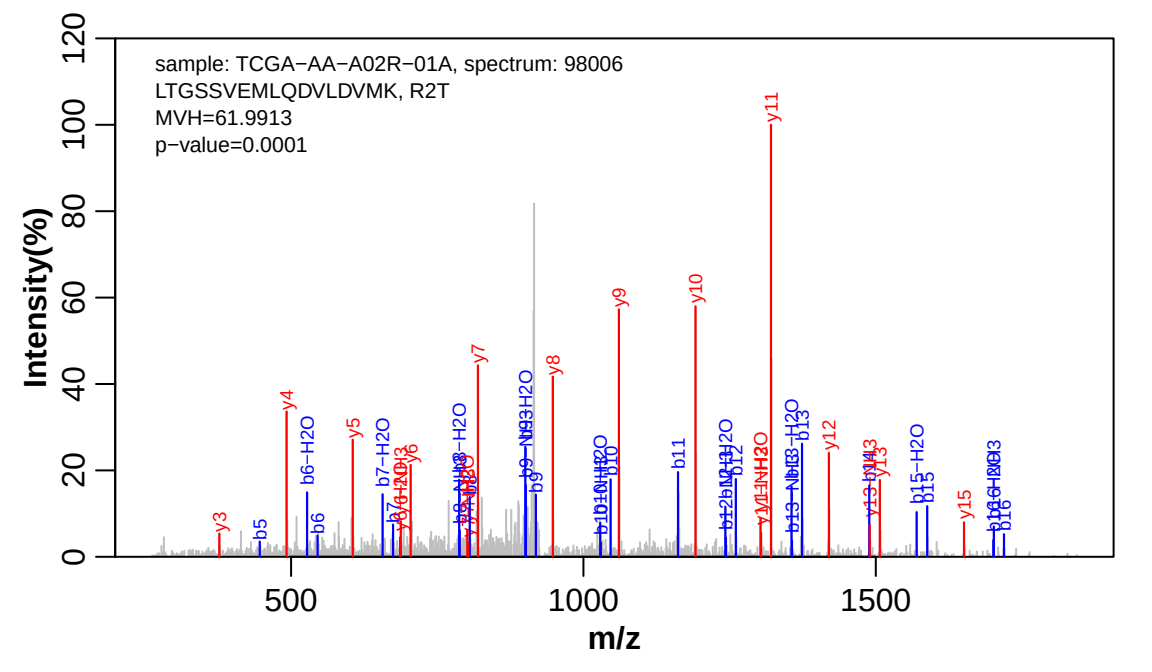

sample: TCGA−AA−A02R−01A, spectrum: 48343
LFSLLSTALLR, V8A
MVH=59.8084
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

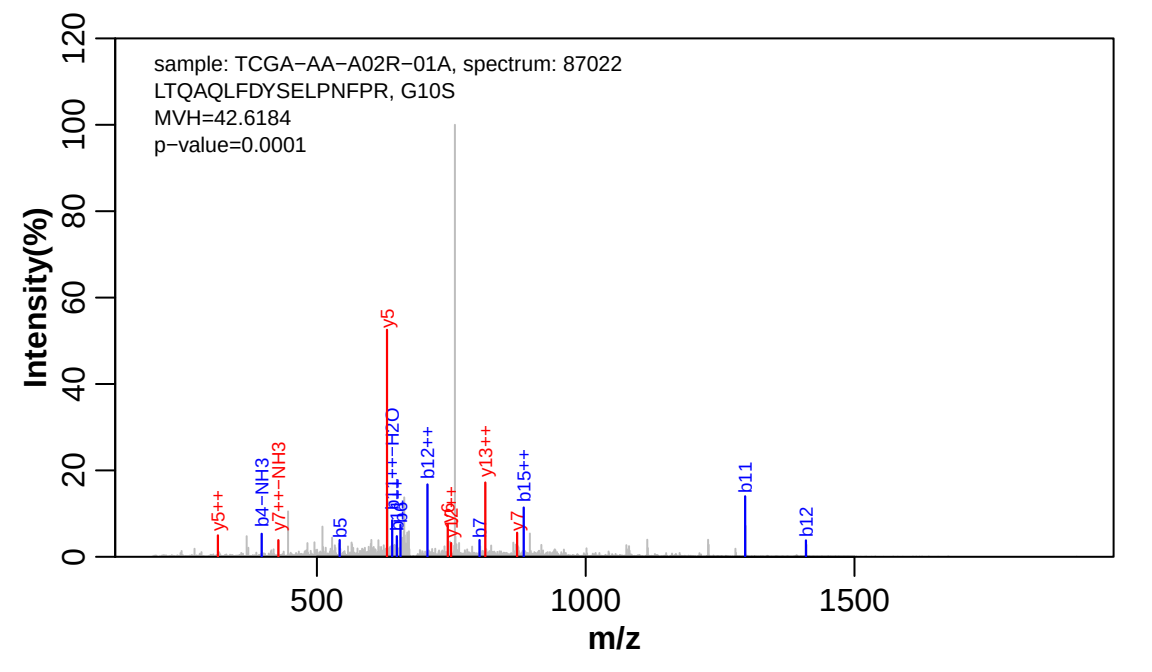

sample: TCGA−AA−A02R−01A, spectrum: 105656
LGRPGLGGSSGLAGAWLK, K3R
MVH=58.5941
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5−H2O
b12++
y5−NH3
y5
y6
y15++
b16++
b17++−H2O
b17++
b19++
y8
b9
y9
b14++
y6−H2O
y4−NH3
b10++−H2O
b11++−H2O
y7++−H2O
y7++

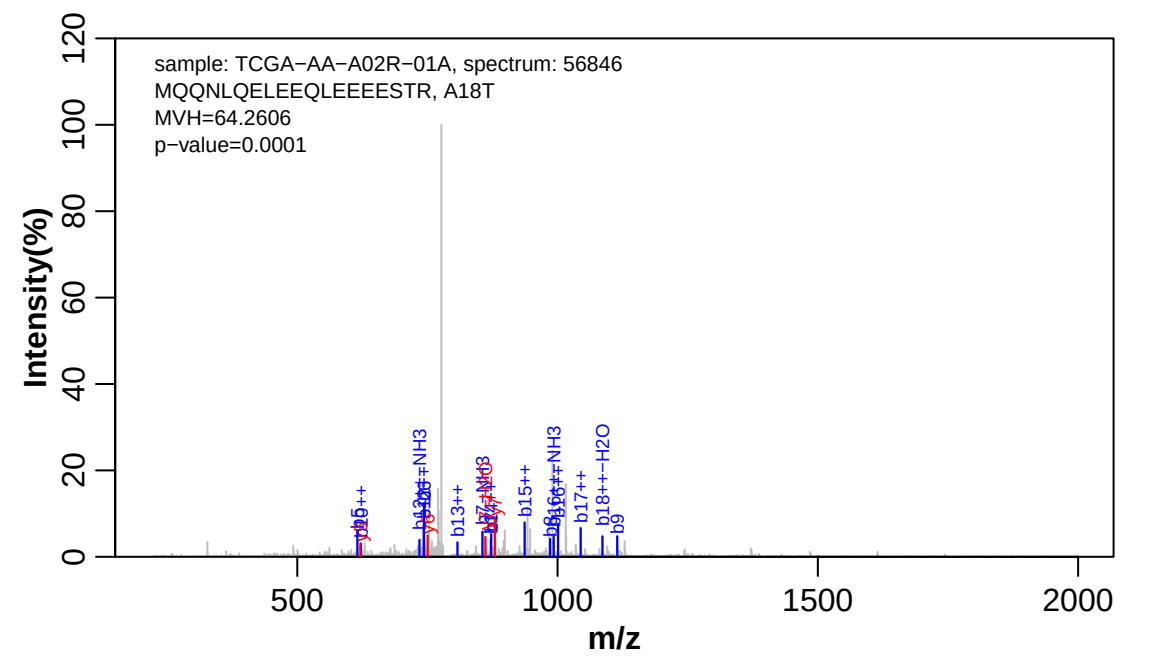

sample: TCGA−AA−A02R−01A, spectrum: 28955
LLNLLADLVER, R4L
MVH=53.6736
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y6
y7
y9
y4
y2
y3
b3
b4
b4−NH3
b5
b5−NH3
y5−NH3
b6−NH3
b7
b8−NH3
b8
y8
b9−NH3
b9
b10
b2

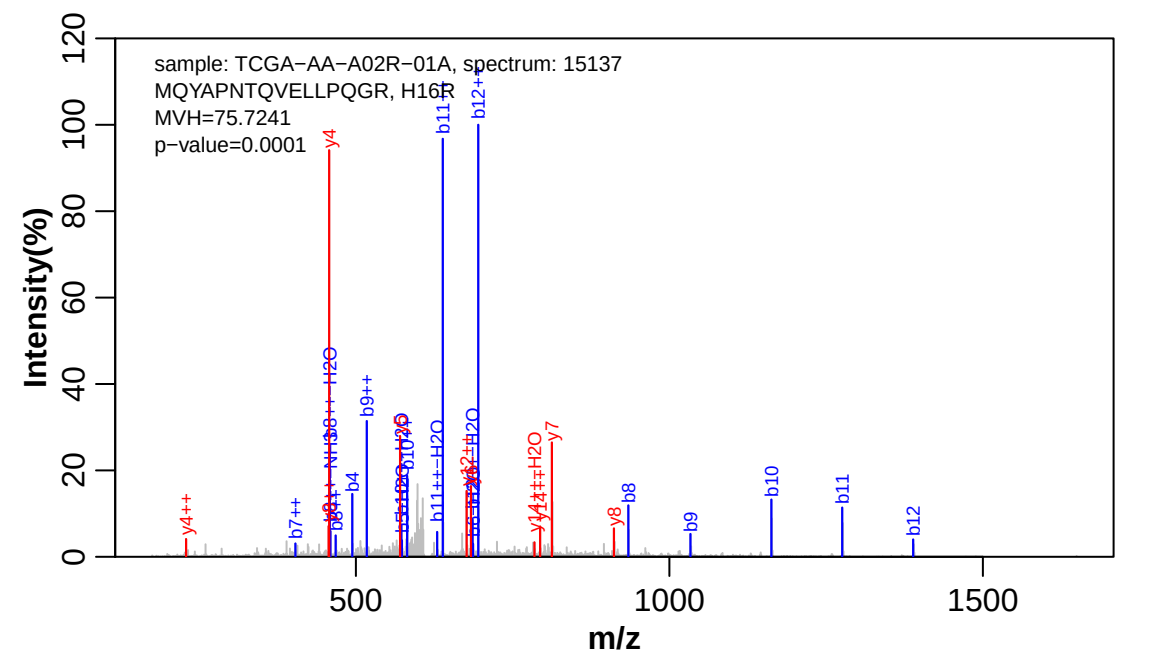

sample: TCGA−AA−A02R−01A, spectrum: 44718
LSQELDFVSHHVR, R3Q
MVH=34.2620
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y6++
b7++−H2O
b4−NH3
b4
y9++
y10++−H2O
y10++
y5
y11++−H2O
y11++
y12++−H2O
y12++

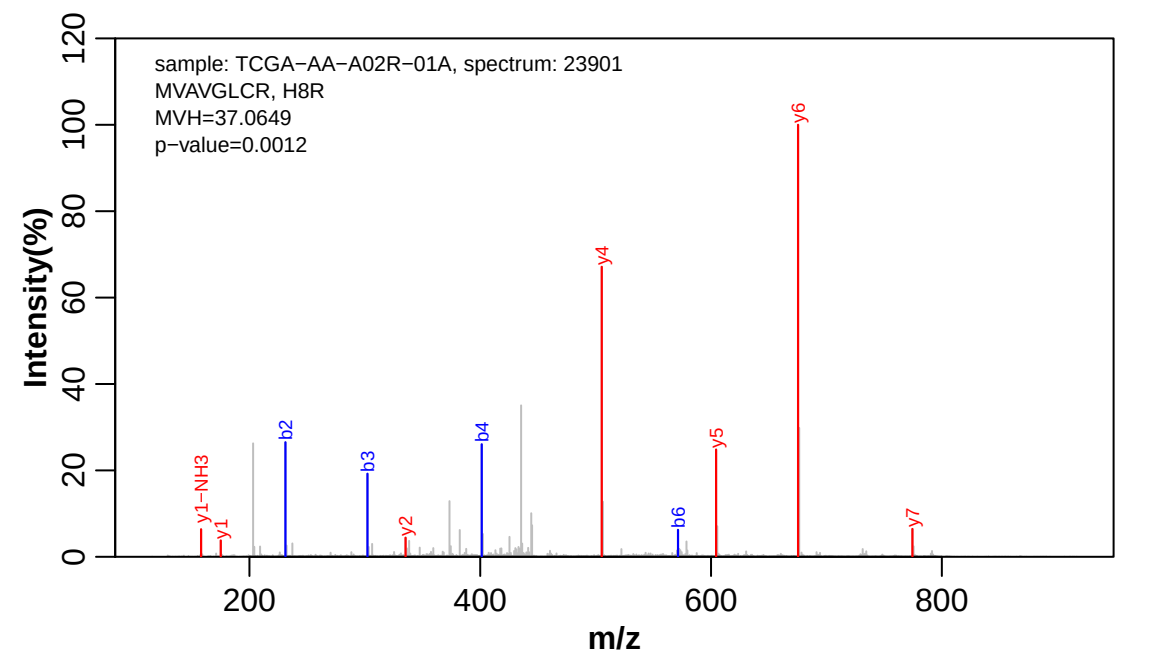

sample: TCGA−AA−A02R−01A, spectrum: 145741
LTAEFEEAQTSACLLQEELEK, R14L
MVH=82.6882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
b7−H2O
b16++−NH3
b20++
b17++
b19++
b14++
b15++
b16++
b18++
y5
y9
y10
y11
b14
b15−NH3
y2−H2O
y3
b4

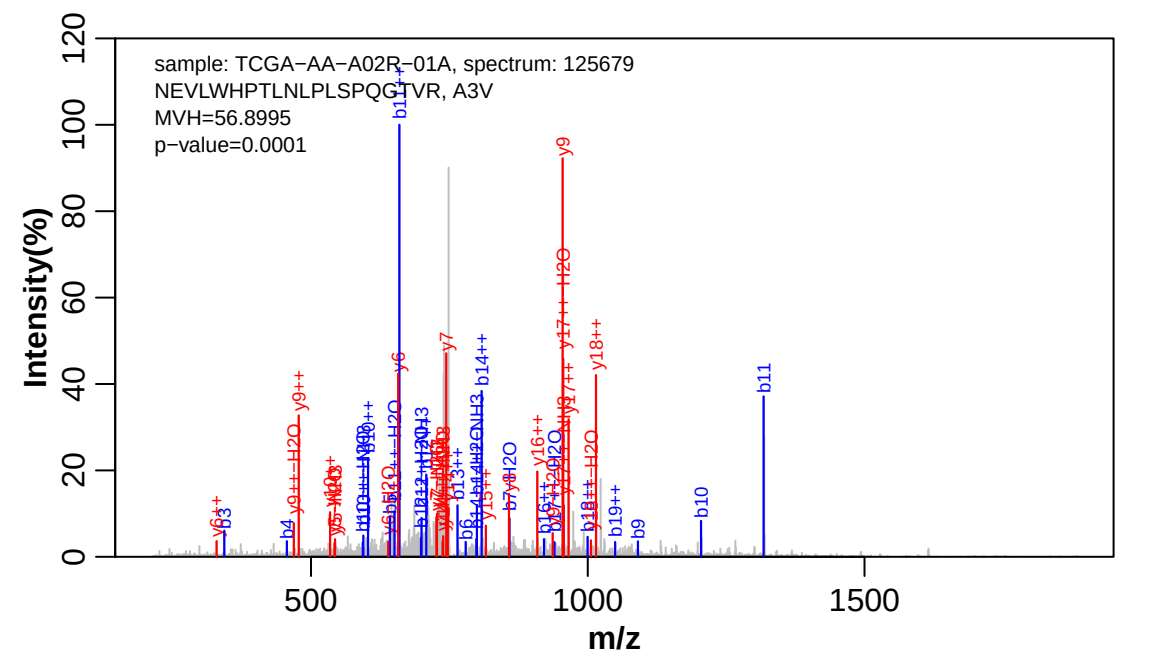

sample: TCGA−AA−A02R−01A, spectrum: 98006
LTGSSVEMLQDVLDVMK, R2T
MVH=61.9913
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y9
y10
y8
y7
y4
y5
y6
y3
y12
y15
b11
b6−H2O
b7−H2O
b9−H2O
b13−H2O
b15−H2O
b5
b6
b7
b10
b13
b15

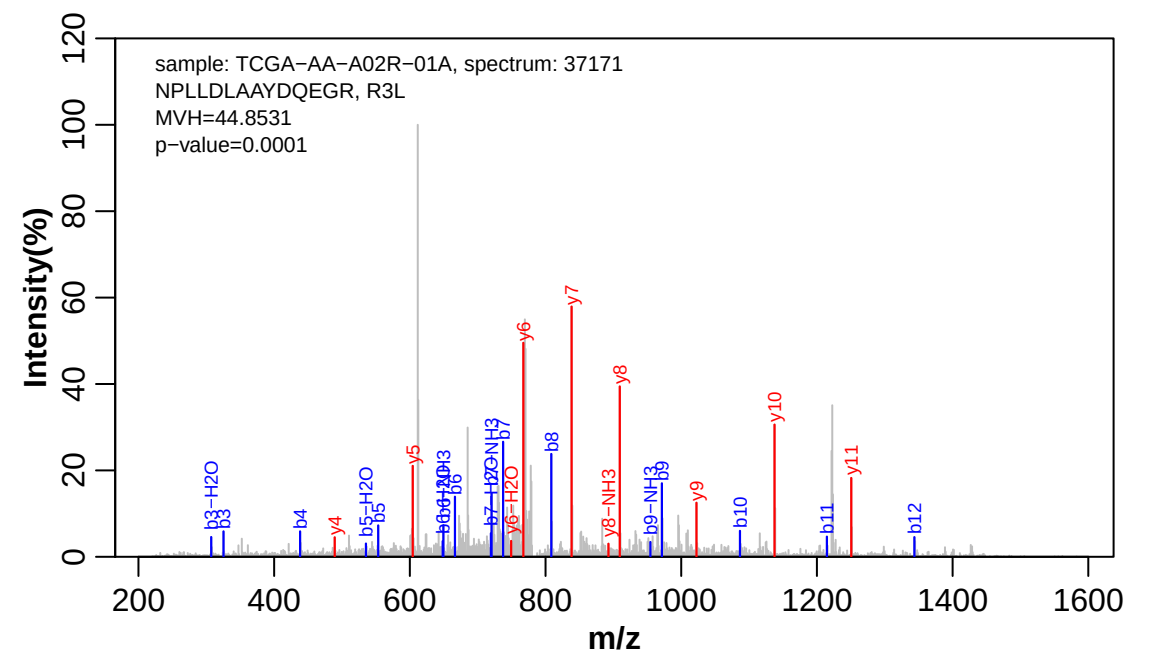

sample: TCGA−AA−A02R−01A, spectrum: 87022
LTQAQLFDYSELPNFPR, G10S
MVH=42.6184
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5++
b4−NH3
y7++−NH3
b5
y5
b11++−H2O
b12++
y13++
b15++
b11
b12

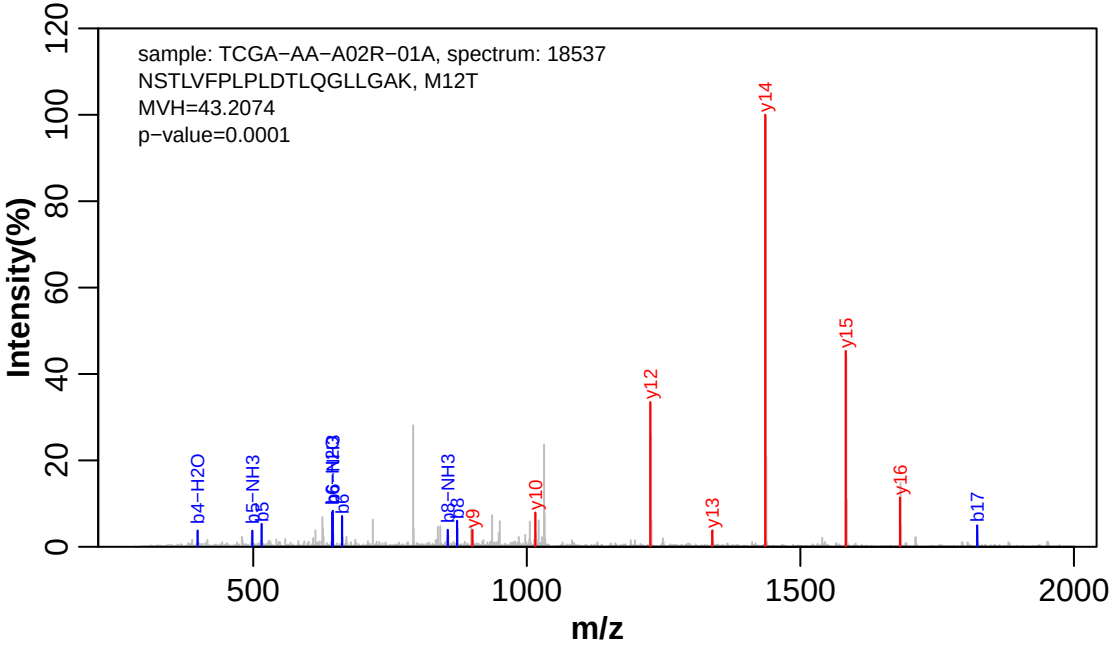

sample: TCGA−AA−A02R−01A, spectrum: 56846
MQQNLQELEEQLEEEESTR, A18T
MVH=64.2606
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b13++
b15++
b17++
b18++−H2O

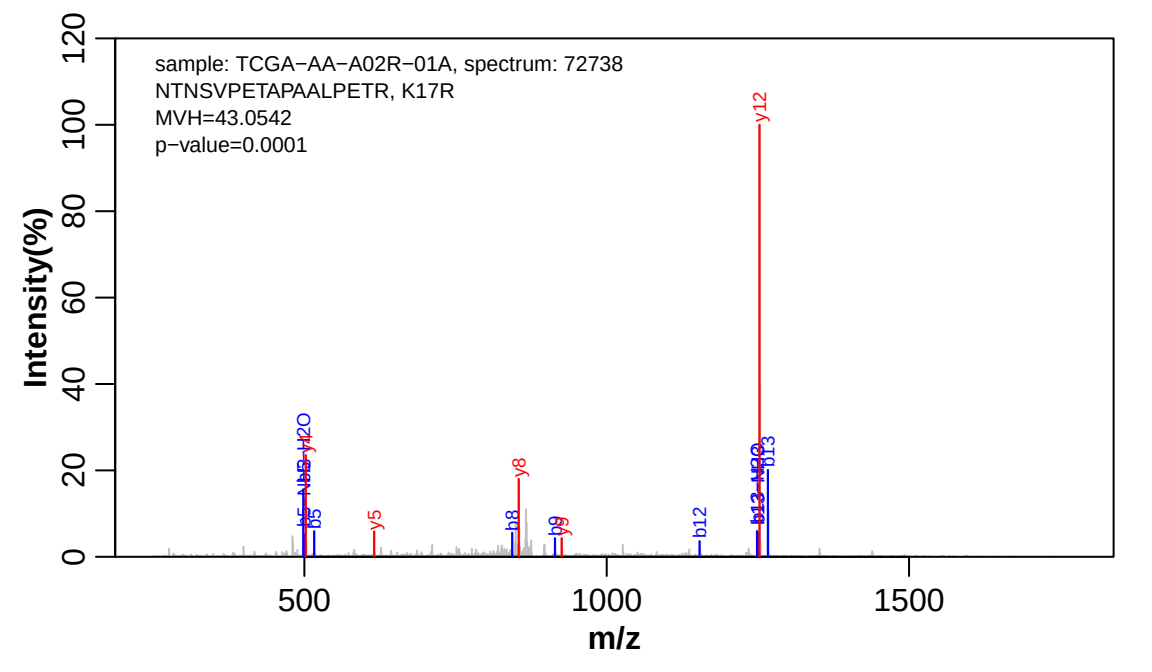

sample: TCGA−AA−A02R−01A, spectrum: 15137
MQYAPNTQVELLPQGR, H16R
MVH=75.7241
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
b11++
b12++
y4++
b7++
b4
b9++
b11++−H2O
y7
y8
b8
b9
b10
b11
b12

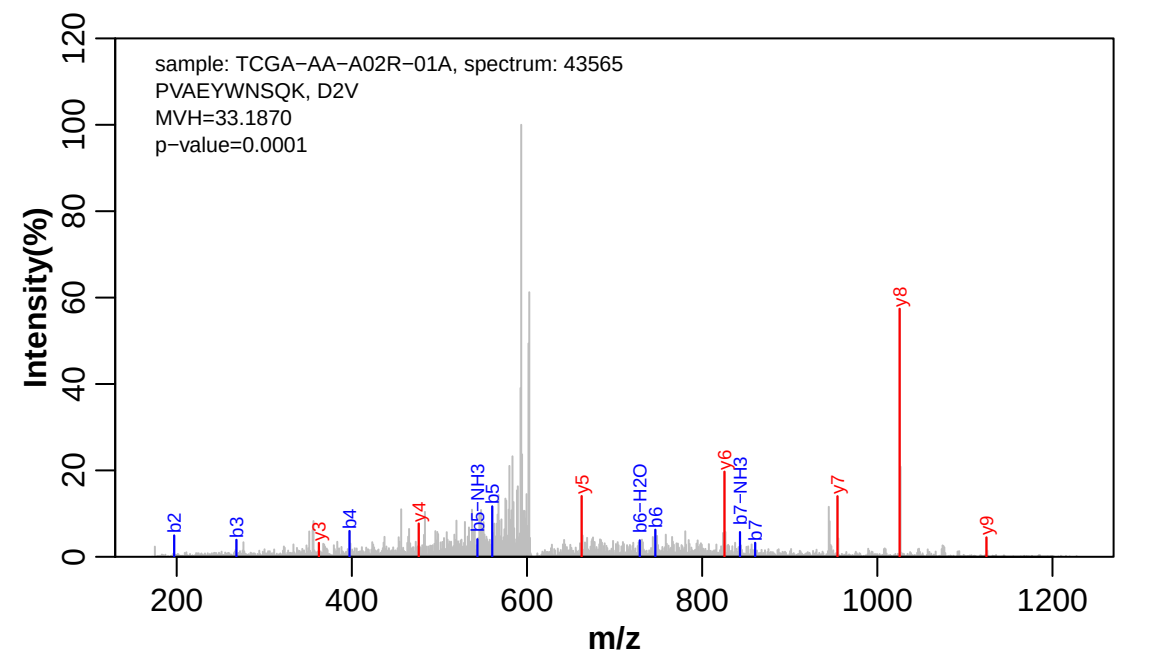

sample: TCGA−AA−A02R−01A, spectrum: 23901
MVAVGLCR, H8R
MVH=37.0649
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y2
b4
y4
b6
y5
y6
y7

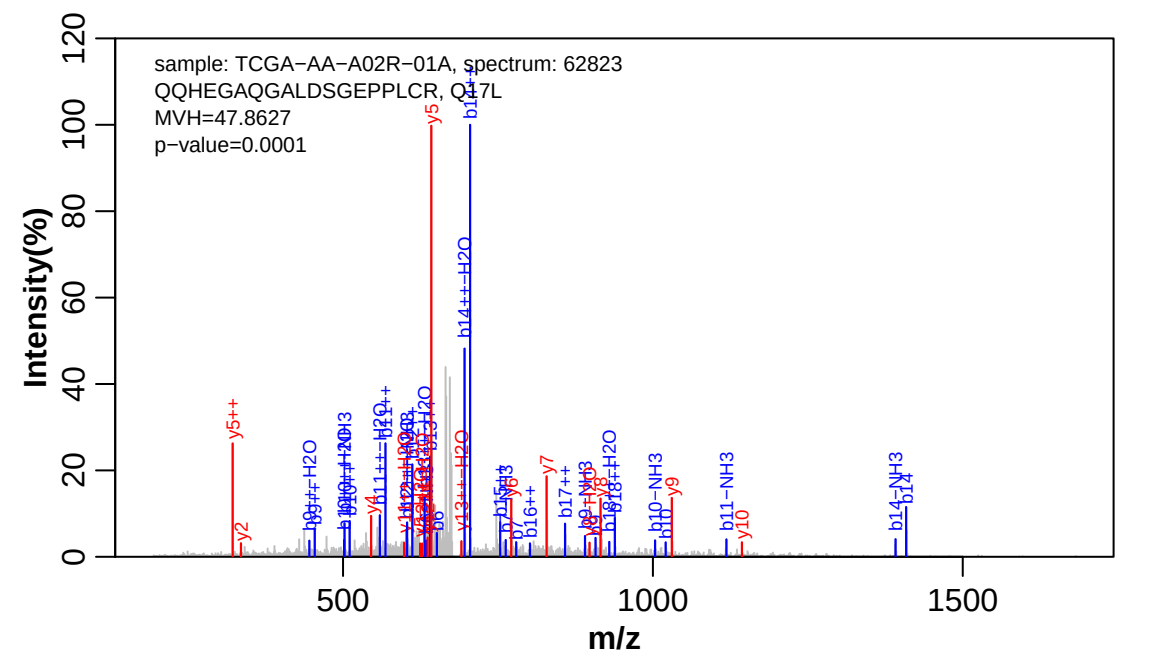

sample: TCGA−AA−A02R−01A, spectrum: 125679
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=56.8995
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y9
y6
y7
y9++
y9++−H2O
y17++ −H2O
y18++
b11
b14++
b10
b9
b19++
y16++
b4
b3
y6++
b5
b13++
y15++
b7++
b18++
b19++
b16++
y5
y4
y3
y2
y1
b2
b8
b12
b15
b17
b20
b21
b22
b23
b24
b25
b26
b27
b28
b29
b30
b31
b32
b33
b34
b35
b36
b37
b38
b39
b40
b41
b42
b43
b44
b45
b46
b47
b48
b49
b50
b51
b52
b53
b54
b55
b56
b57
b58
b59

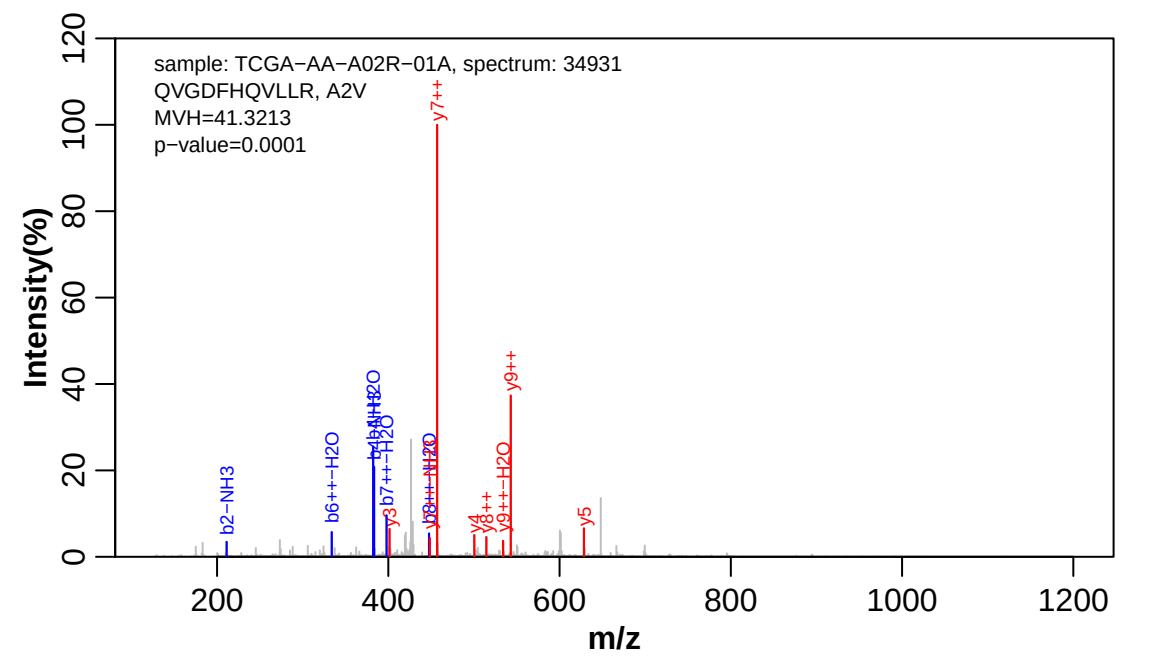

sample: TCGA−AA−A02R−01A, spectrum: 37171
NPLLDLAAYDQEGR, R3L
MVH=44.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4
y4
b5−H2O
b5
y5
b6
b7−H2O−NH3
b7
y6−H2O
y6
b8
y7
y8−NH3
y8
b9−NH3
b9
y9
b10
y10
b11
y11
b12

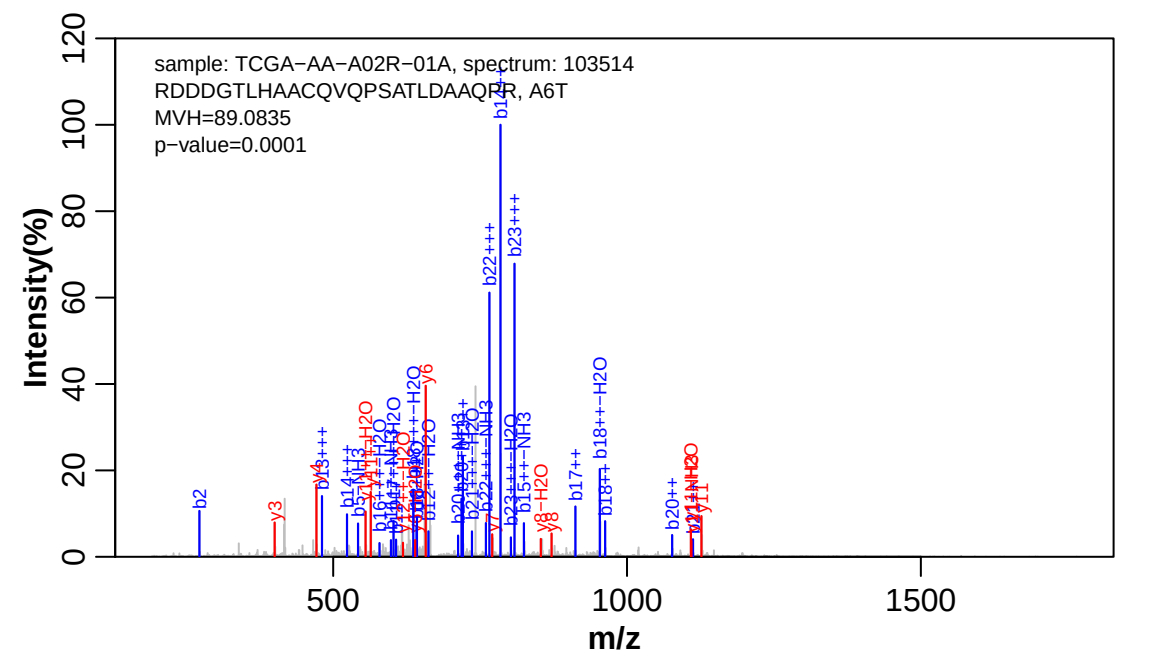

sample: TCGA−AA−A02R−01A, spectrum: 18537
NSTLVFPLPLDTLQGLLGAK, M12T
MVH=43.2074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
b5−NH3
b5
b6−NH3
b6
b8−NH3
b8
y9
y10
y12
y13
y14
y15
y16
b17

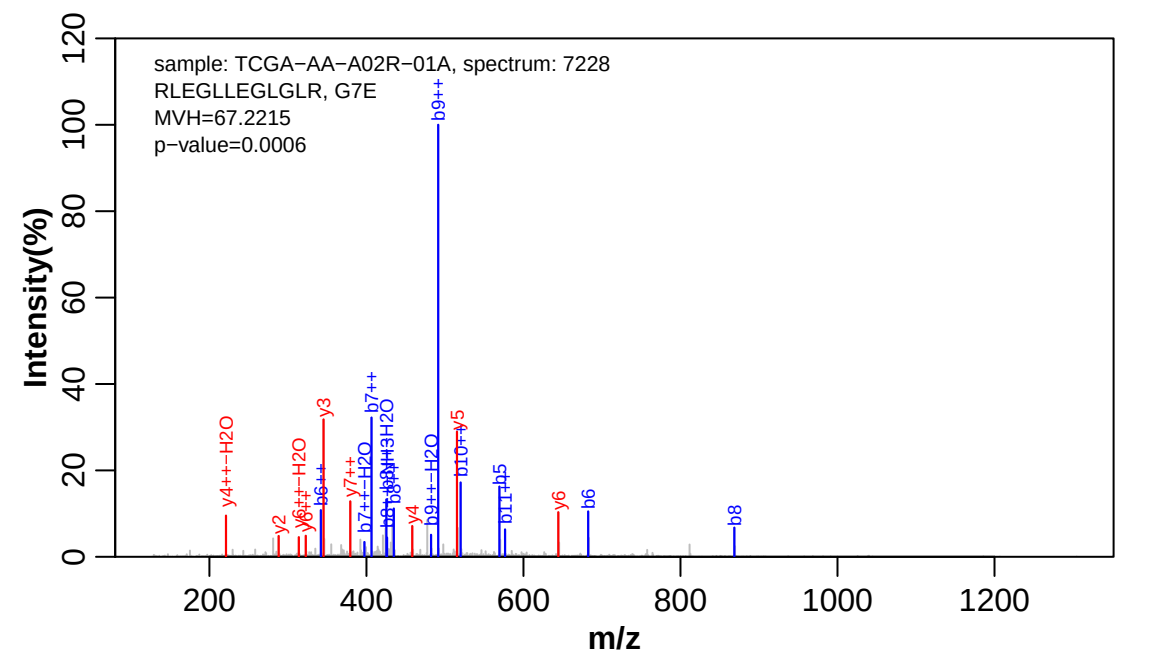

sample: TCGA−AA−A02R−01A, spectrum: 72738
NTNSVPETAPAALPETR, K17R
MVH=43.0542
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b8
b12
b13

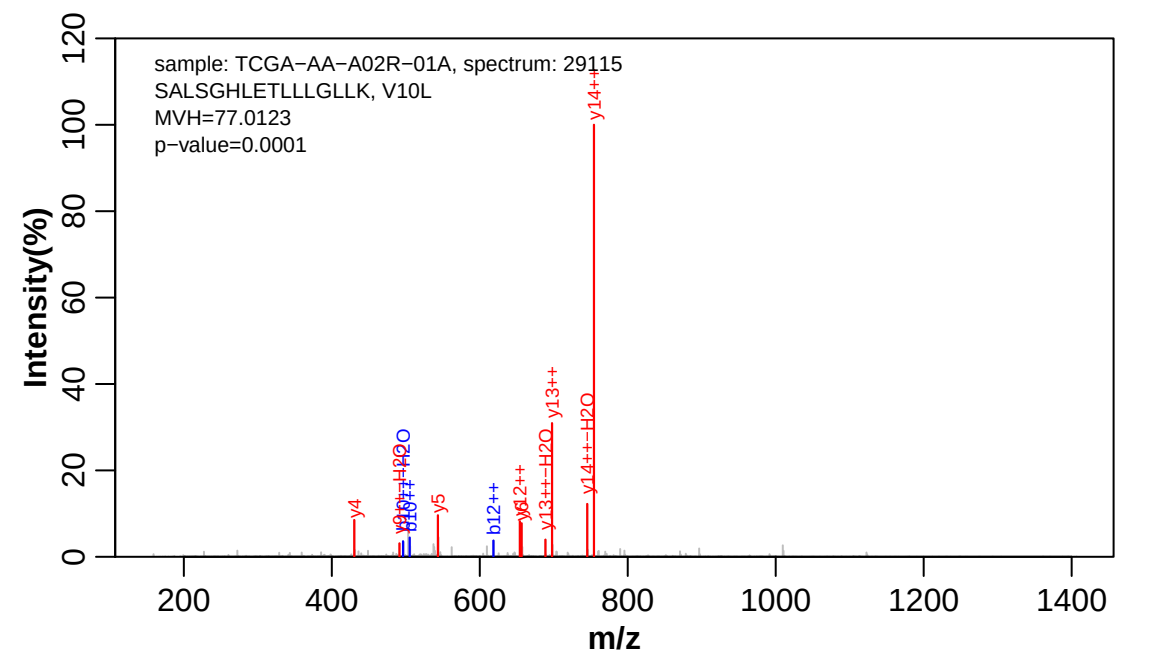

sample: TCGA−AA−A02R−01A, spectrum: 43565
PVAEYWNSQK, D2V
MVH=33.1870
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5−NH3
b5
y5
b6−H2O
b6
y6
b7−NH3
b7
y7
y8
y9

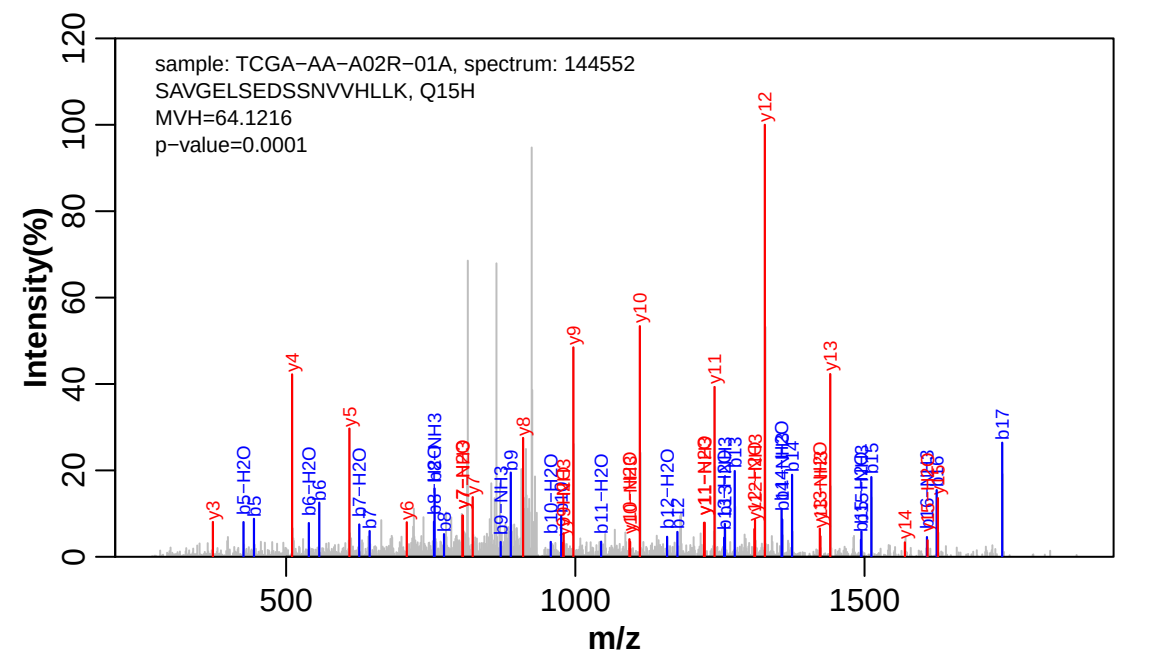

sample: TCGA−AA−A02R−01A, spectrum: 62823
QQHEGAQGALDSGEPPLCR, Q17L
MVH=47.8627
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
b14++
y5++
b14++−H2O
y2
y4
y3
y7
b17++
b16++
b10−NH3
y9
b11−NH3
y10
b14−NH3
b14

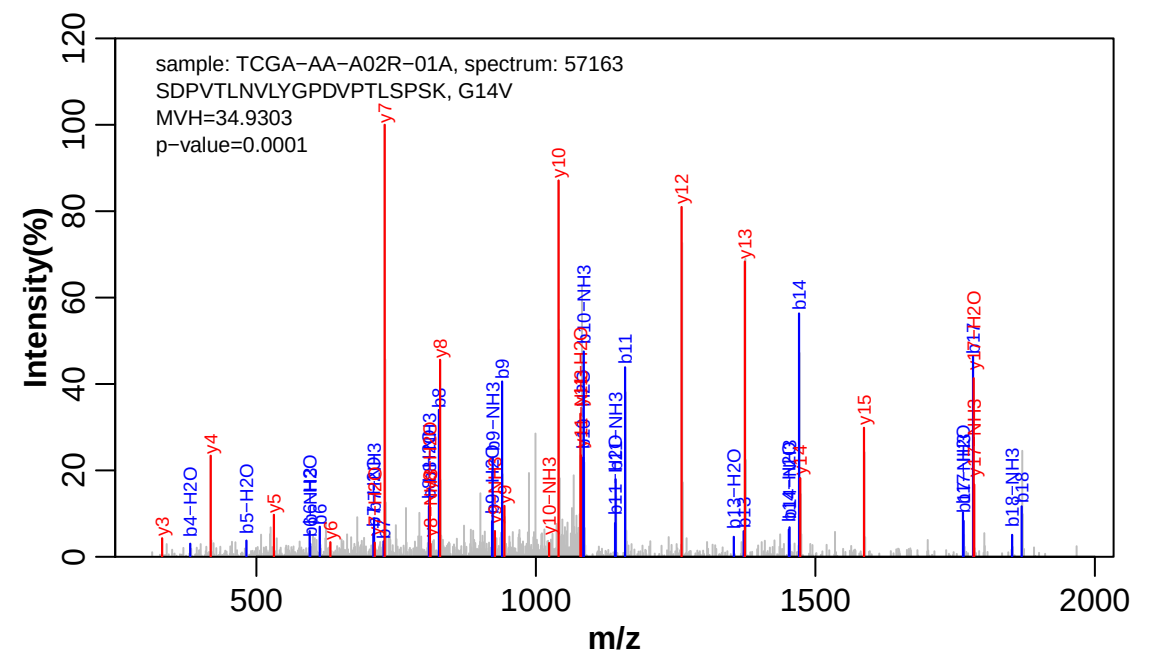

sample: TCGA−AA−A02R−01A, spectrum: 34931
QVGDFHQVLLR, A2V
MVH=41.3213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b6++−H2O
b4++−NH3
b4++−H2O
b7++−H2O
y3
y8++−NH3
y7++
y4
y8++
y9++−H2O
y9++
y5

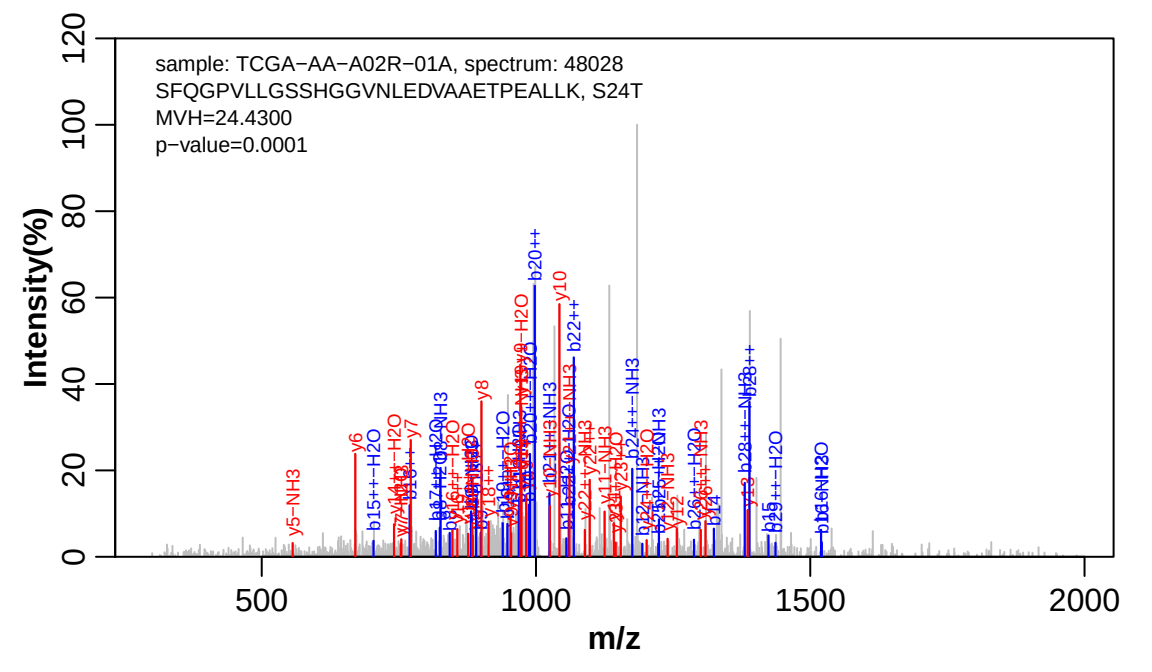

sample: TCGA−AA−A02R−01A, spectrum: 103514
RDDDGTLHAACQVQPSATLDAAQTR, A6T
MVH=89.0835
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y4
b13+++
b14+++
b5−NH3
y14+++−H2O
b16+++−H2O
b16+++−NH3
b17+++−H2O
b17+++−NH3
b18+++−H2O
b18+++−NH3
b19+++−H2O
b19+++−NH3
b12+++−H2O
y6
b20+++−NH3
b21+++−H2O
b21+++−NH3
b22+++−H2O
b22+++−NH3
y7
b12++
b22+++
b23+++
b23+++−H2O
b15++−NH3
y8−H2O
y8
b17++
b18++
b18++−H2O
b20++
y11−H2O
y11

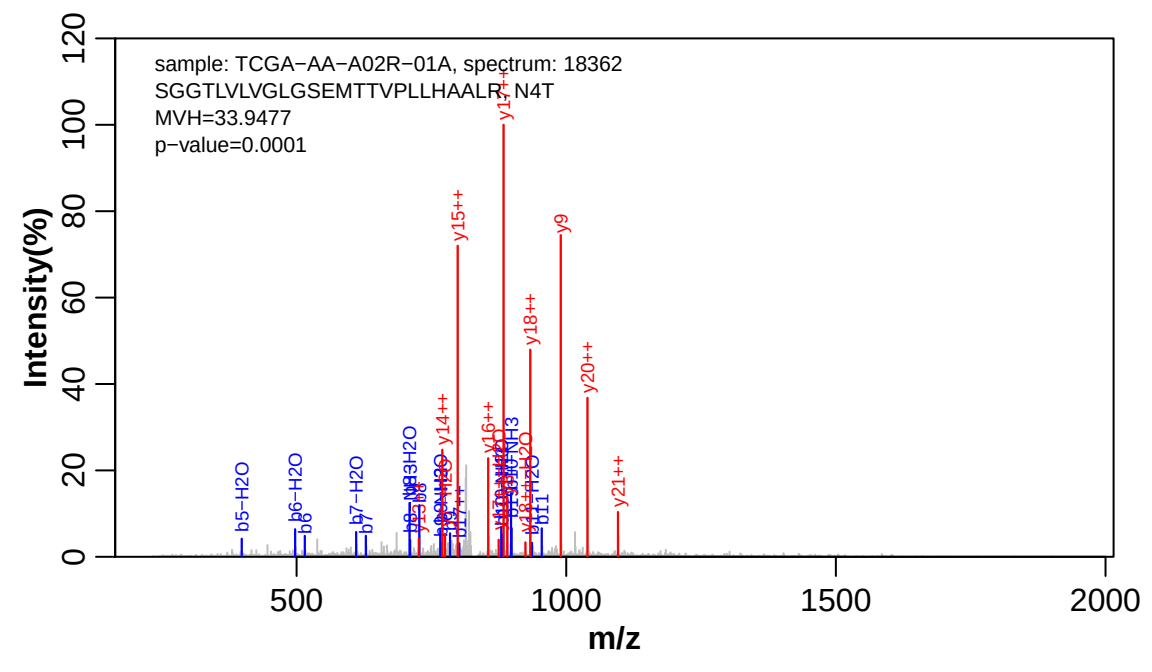

sample: TCGA−AA−A02R−01A, spectrum: 7228
RLEGLLEGLGLR, G7E
MVH=67.2215
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y4++−H2O
y2
y6++−H2O
y6++
b6++
y3
y7++
b7++−H2O
b7++
b9++−H2O−NH3
b9++−H2O
y4
b9++
b10++y5
b11++
b5
y6
b6
b8

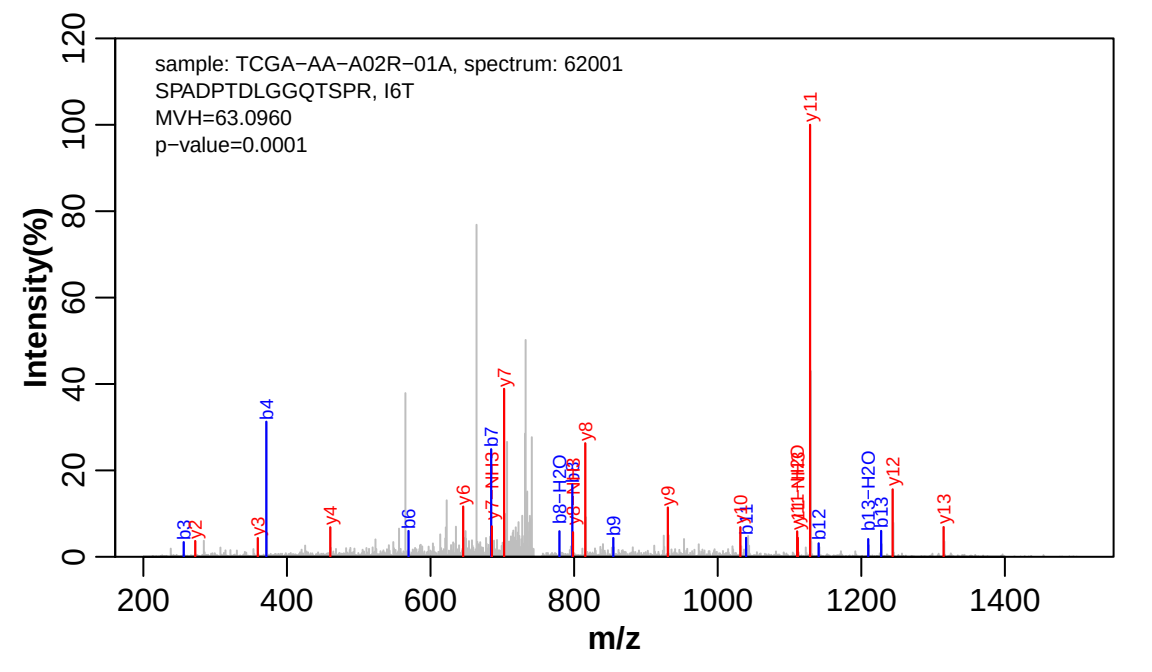

sample: TCGA−AA−A02R−01A, spectrum: 29115
SALSGHLETLLLGLLK, V10L
MVH=77.0123
p−value=0.0001
Intensity(%)
m/z
y14++
y14++−H2O
y13++
y13++−H2O
y12++
b12++
y5
y4

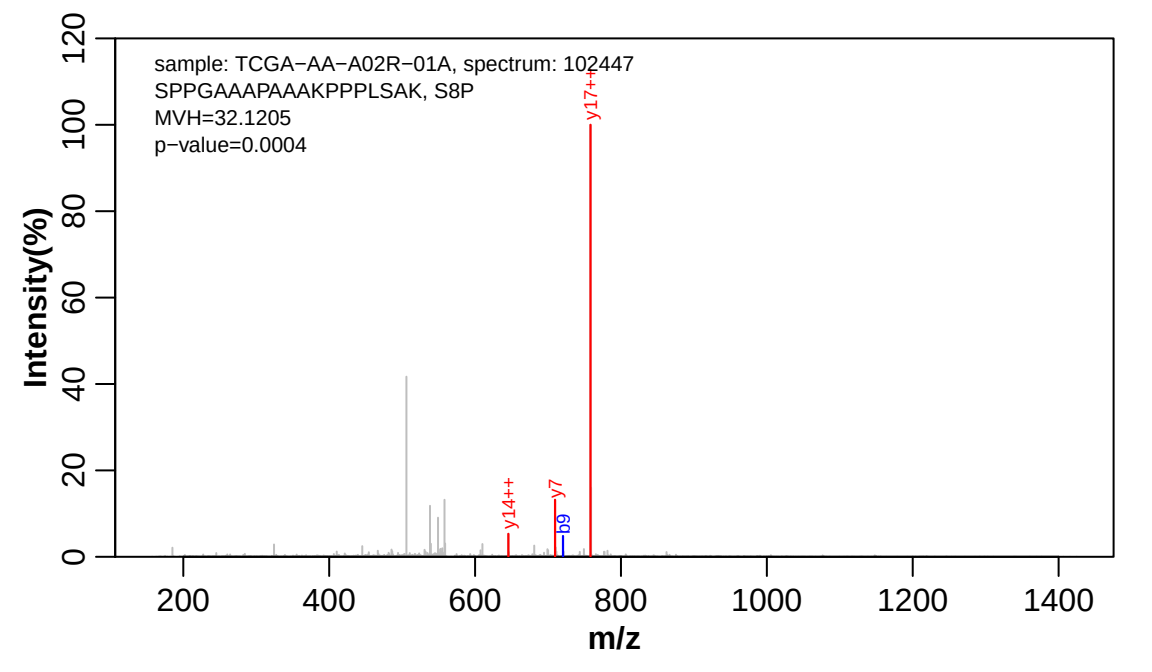

sample: TCGA−AA−A02R−01A, spectrum: 144552
SAVGELSEDSSNVVHLLK, Q15H
MVH=64.1216
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y4
y5
y3
y6
y8
y9
y10
y11
y13
y14
b17
b5−H2O
b6−H2O
b7−H2O
b9−NH3
b11−H2O
b12−H2O

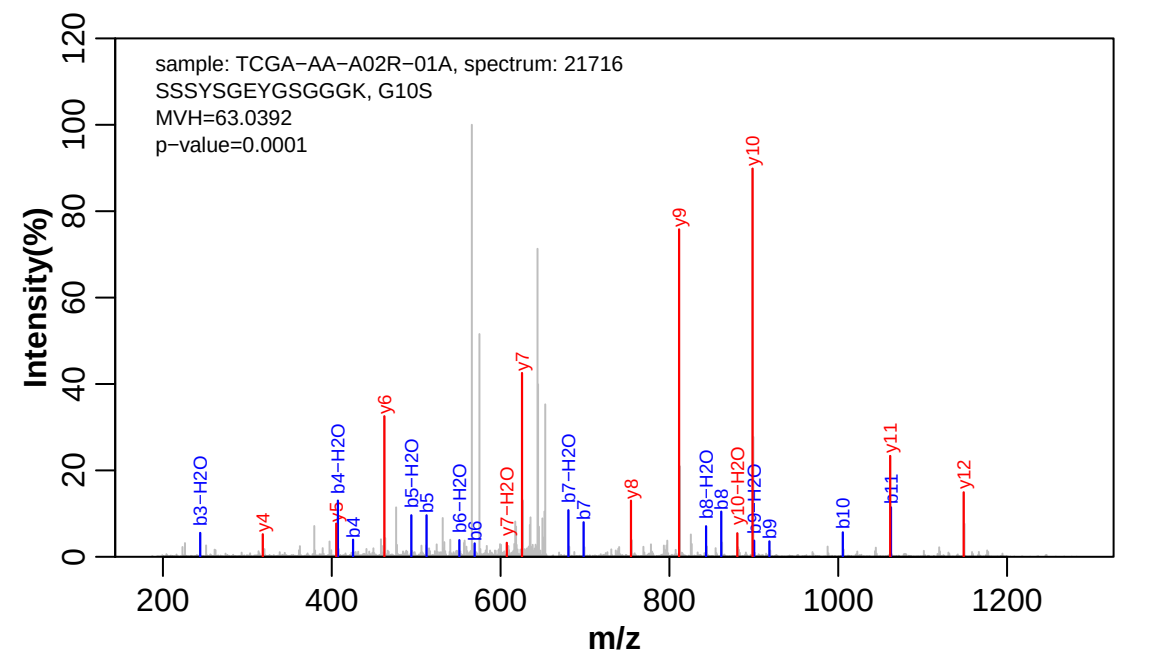

sample: TCGA−AA−A02R−01A, spectrum: 57163
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=34.9303
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
b4−H2O
y4
b5−H2O
y5
y6
y7
y8
b8
y10
y10−NH3
b9
b9−NH3
y9
y10−NH3
b11
b11−NH3
y12
b13−H2O
b13
y13
b14
y14
y15
y17−NH3
y17−H2O
b17−NH3
b17−H2O
b18−NH3
b18

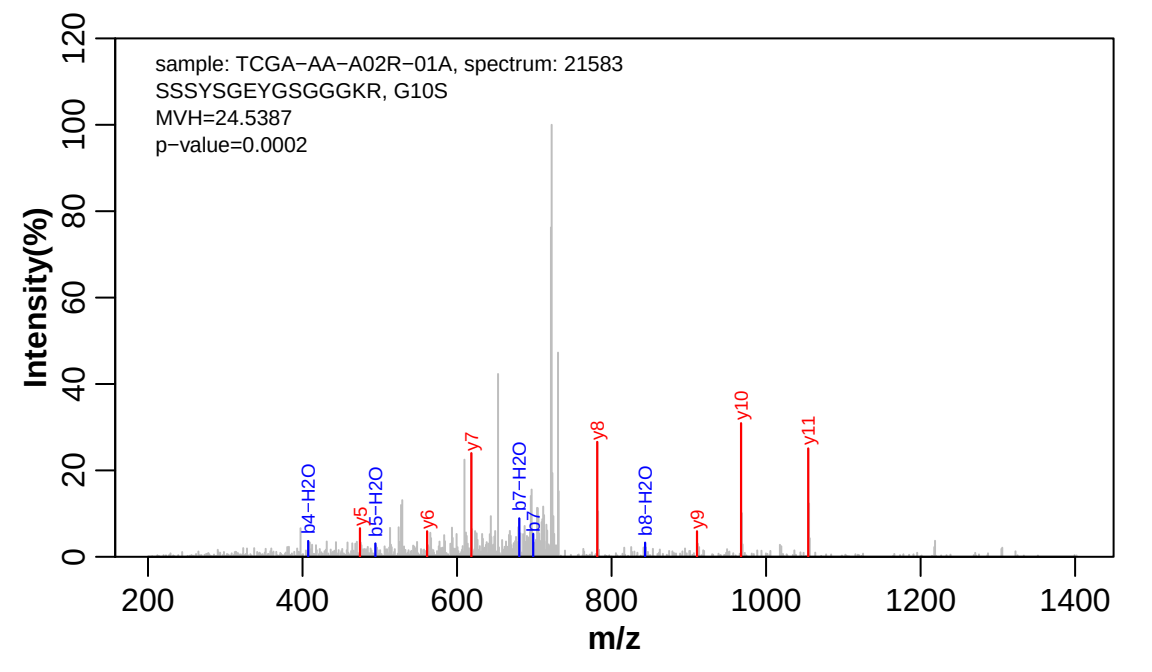

sample: TCGA−AA−A02R−01A, spectrum: 48028
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=24.4300
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5−NH3
y6
b15++−H2O
y8
b20++
y10
b22++
b24++−NH3
b28++
y5++
b16−NH3−H2O

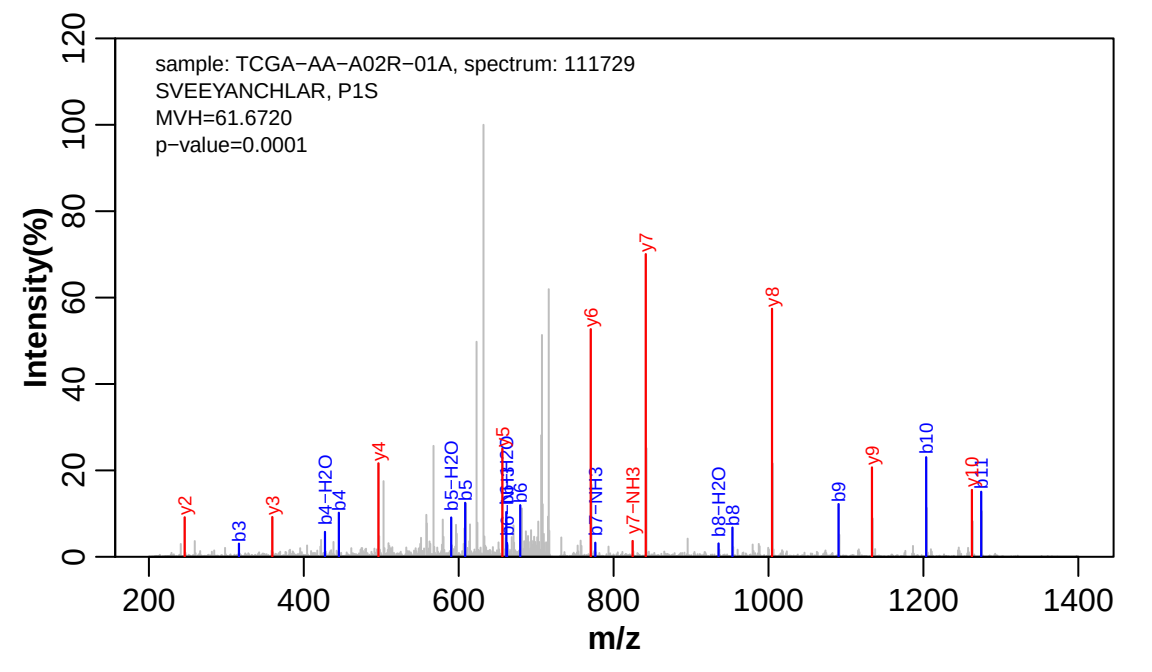

sample: TCGA−AA−A02R−01A, spectrum: 18362
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=33.9477
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y9
y18++
y20++
y14++
y16++
y21++
b5−H2O
b6−H2O
b6
b7−H2O
b7
b11
y18++−H2O

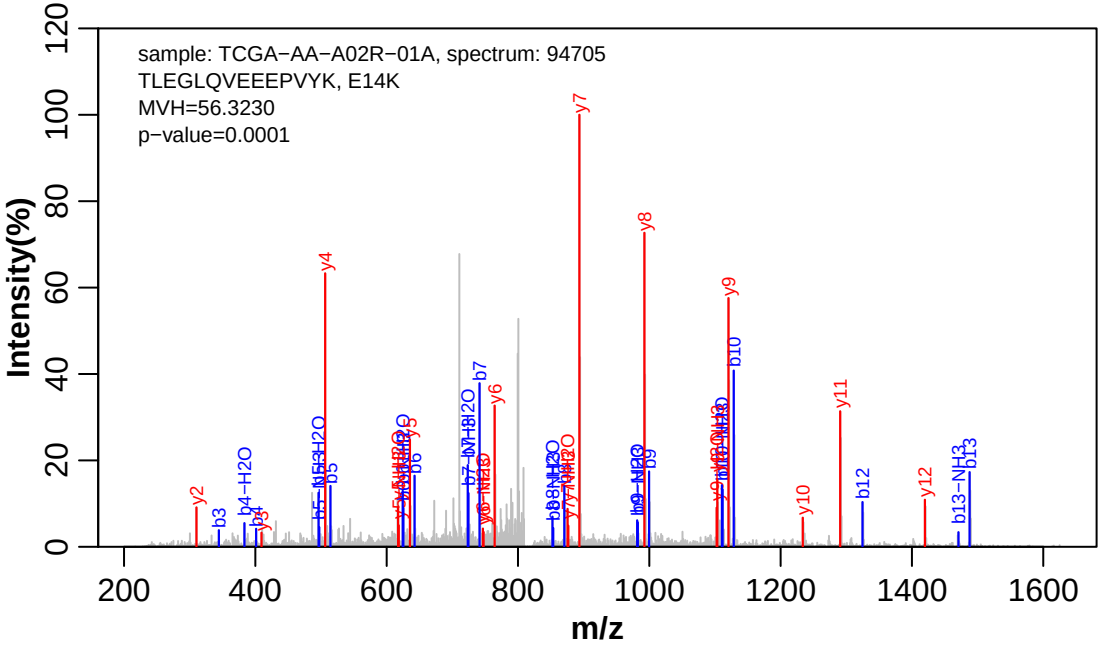

sample: TCGA−AA−A02R−01A, spectrum: 62001
SPADPTDLGGQTSPR, I6T
MVH=63.0960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y6
y7−NH3
b7
y7
b8−H2O
y8
y9
b9
y10
b11
y11−NH3
y11−H2O
b12
b13−H2O
b13
y12
y13

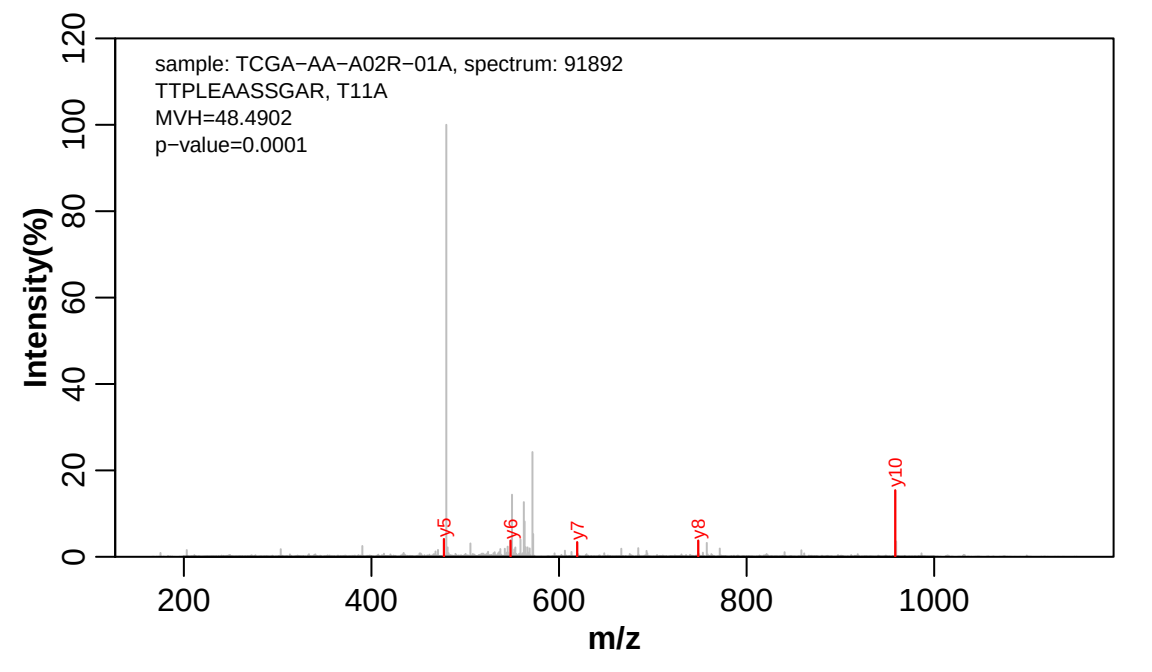

sample: TCGA−AA−A02R−01A, spectrum: 102447
SPPGAAAPAAAKPPPLSAK, S8P
MVH=32.1205
p−value=0.0004
y17++
y14++
y7
b9
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

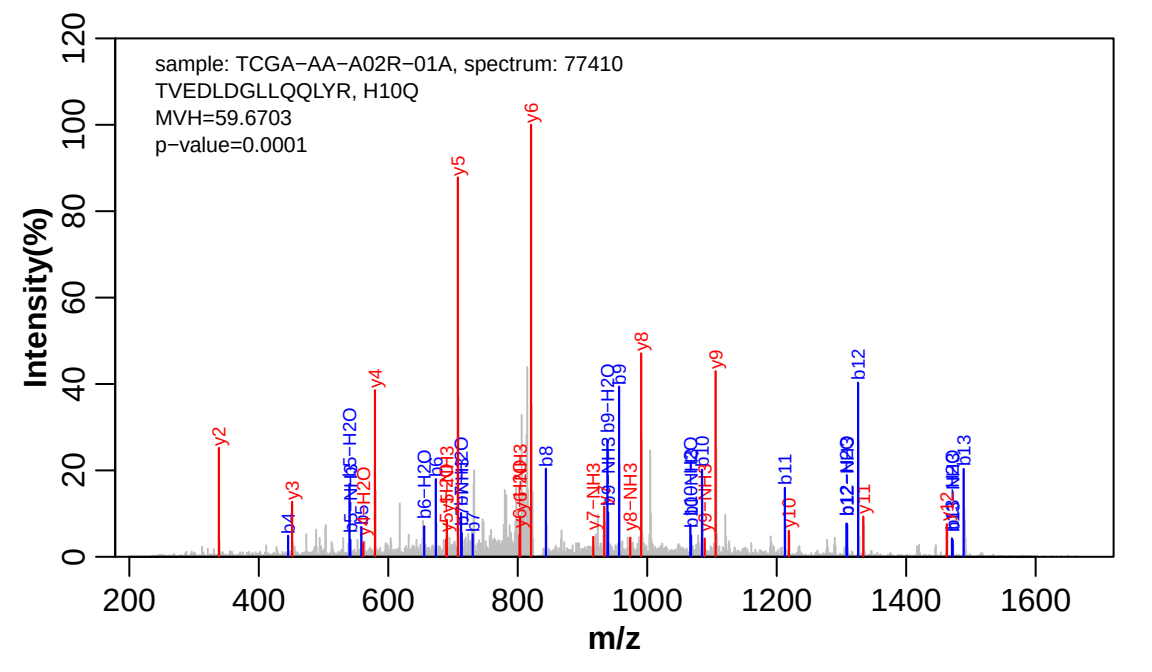

sample: TCGA−AA−A02R−01A, spectrum: 21716
SSSYSGEYGSGGGK, G10S
MVH=63.0392
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
b6−H2O
b6
y7−H2O
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10
b9−H2O
b9
b10
y11
b11
y12

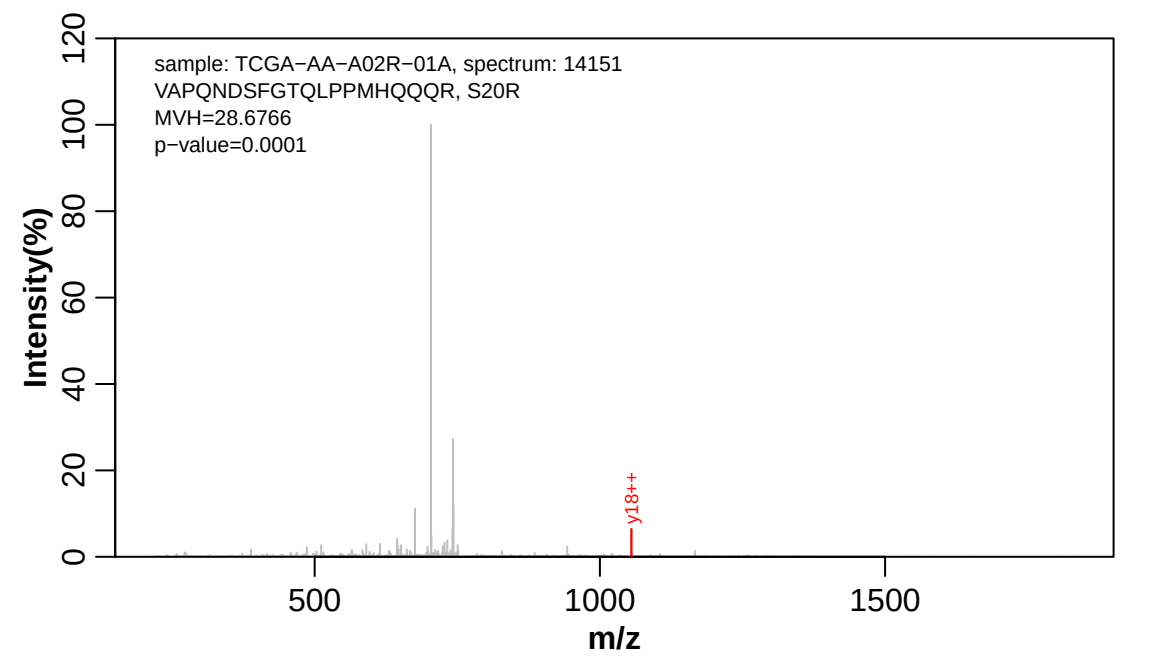

sample: TCGA−AA−A02R−01A, spectrum: 21583
SSSYSGEYGSGGGKR, G10S
MVH=24.5387
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−H2O
y5
b5−H2O
y6
y7
b7−H2O
b7
y8
b8−H2O
y9
y10
y11

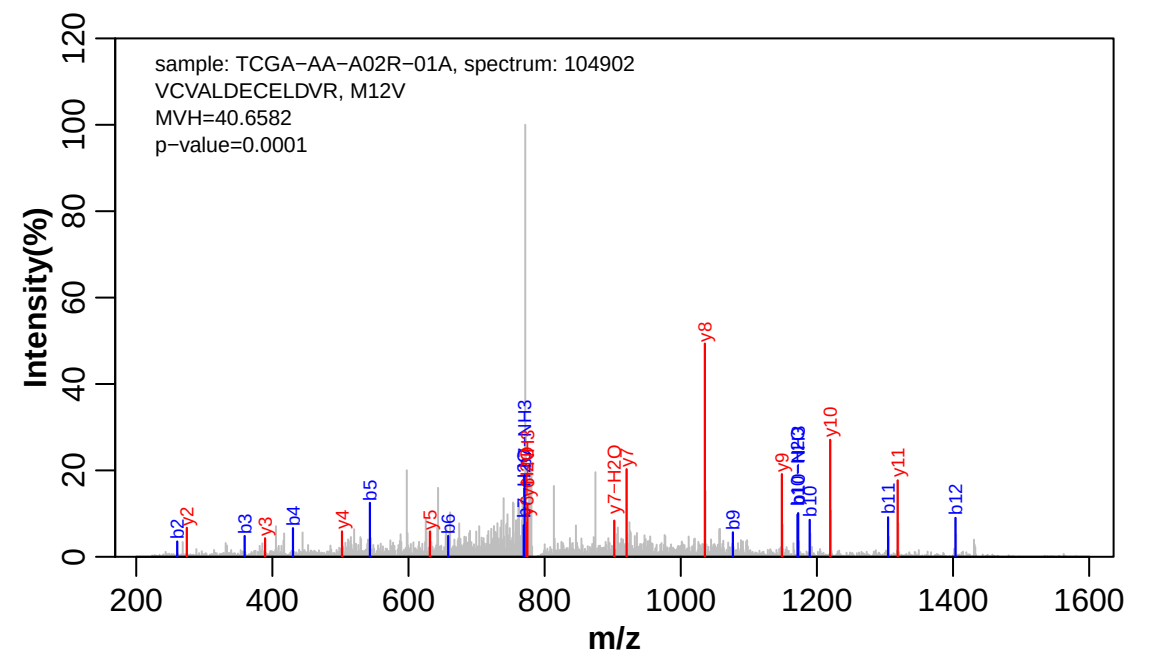

sample: TCGA−AA−A02R−01A, spectrum: 111729
SVEEYANCHLAR, P1S
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
y2
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
b6−NH3
b6
y6
b7−NH3
y7
y7−NH3
b8−H2O
b8
y8
b9
y9
b10
y10
b11

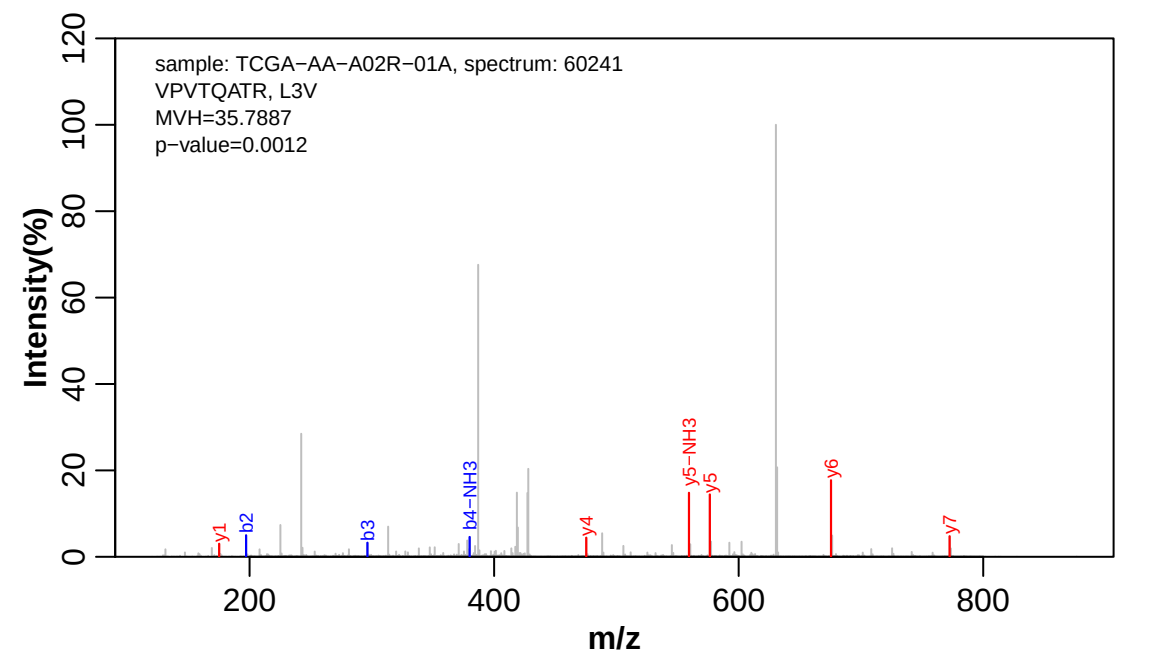

sample: TCGA−AA−A02R−01A, spectrum: 94705
TLEGLQVEEEPVYK, E14K
MVH=56.3230
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y4
y9
b10
y11
y6
b7
y2
b3
b4−H2O
b4
y3
b5
b12
y12
y10
b13−NH3
b13

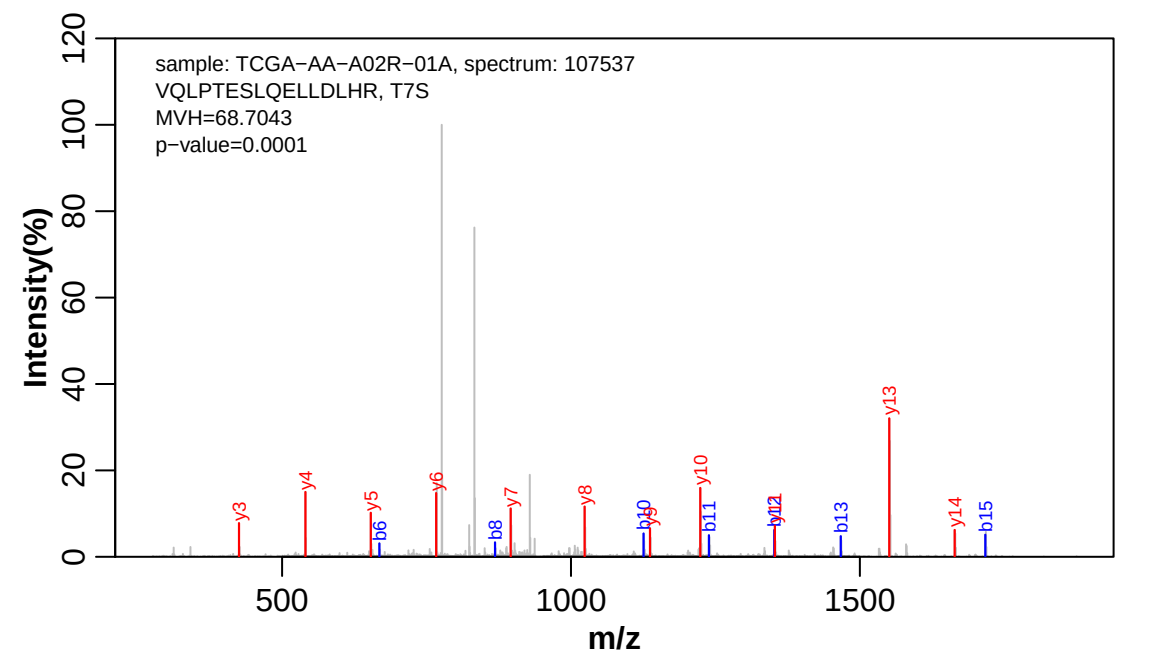

sample: TCGA−AA−A02R−01A, spectrum: 91892
TTPLEAASSGAR, T11A
MVH=48.4902
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y7
y8
y10

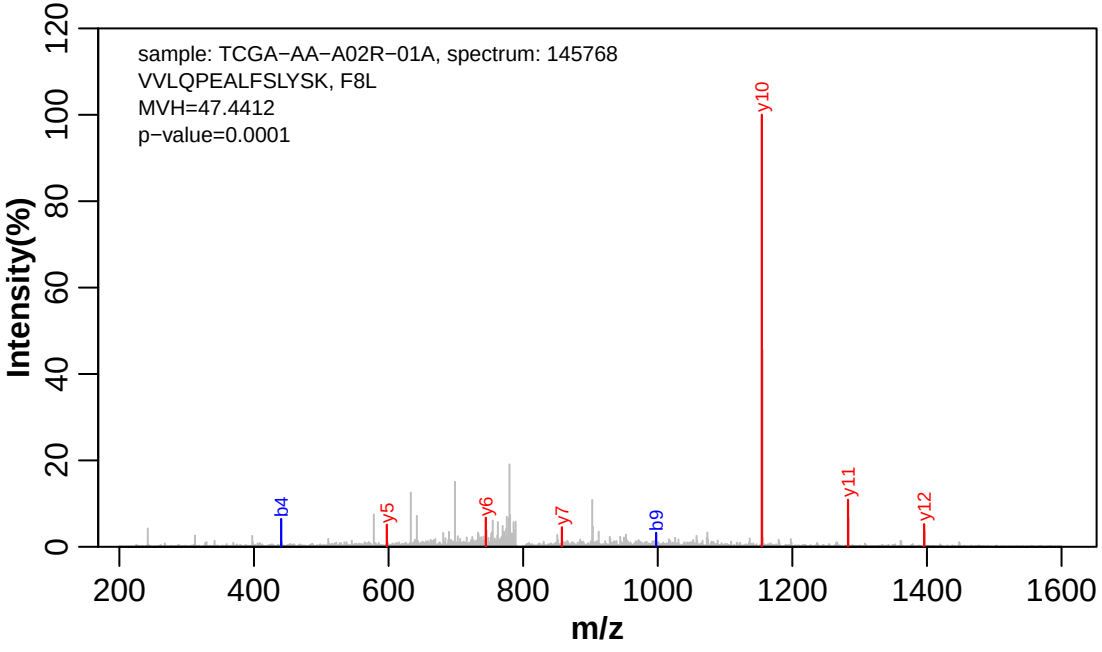

sample: TCGA−AA−A02R−01A, spectrum: 77410
TVEDLDGLLQQLYR, H10Q
MVH=59.6703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y5
y4
y2
y3
y8
y9
b12
b8
b9
b11
y11
b13
y7−NH3
y8−NH3
y10−NH3
b9−NH3
b9−H2O
b6−H2O
b12−NH3
b12−H2O
y10
y12
b5−NH3
b5−H2O
y4−H2O
y5−H2O
y5−NH3
b7
b4

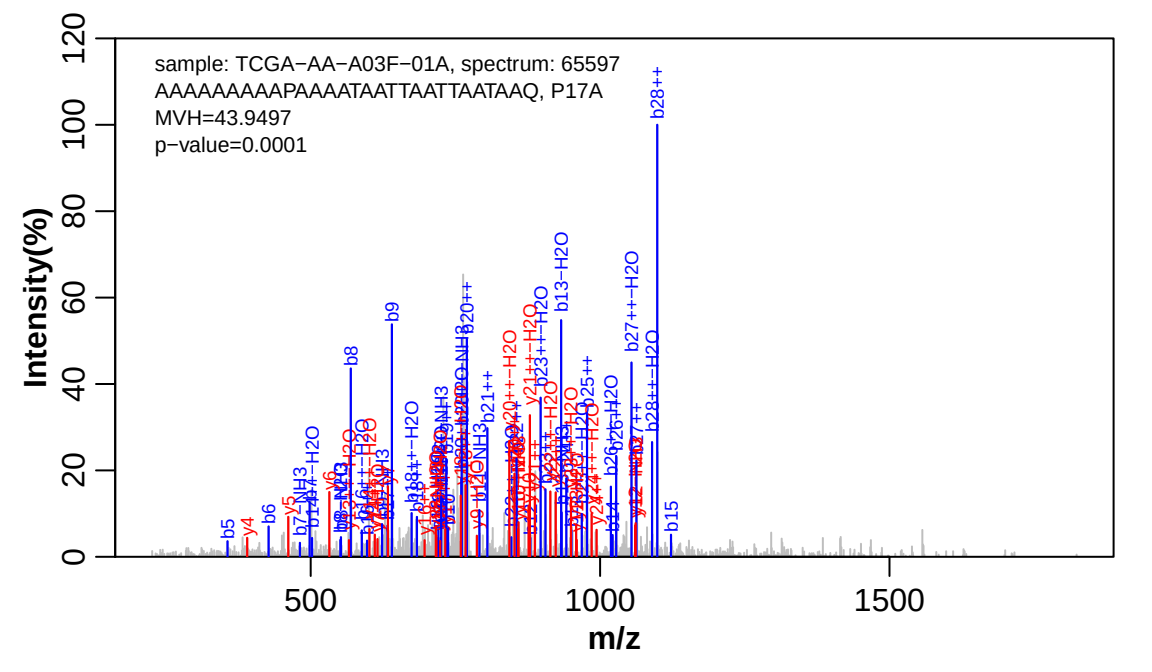

sample: TCGA−AA−A02R−01A, spectrum: 14151
VAPQNDSFGTQLPPMHQQQR, S20R
MVH=28.6766
p−value=0.0001
y18++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

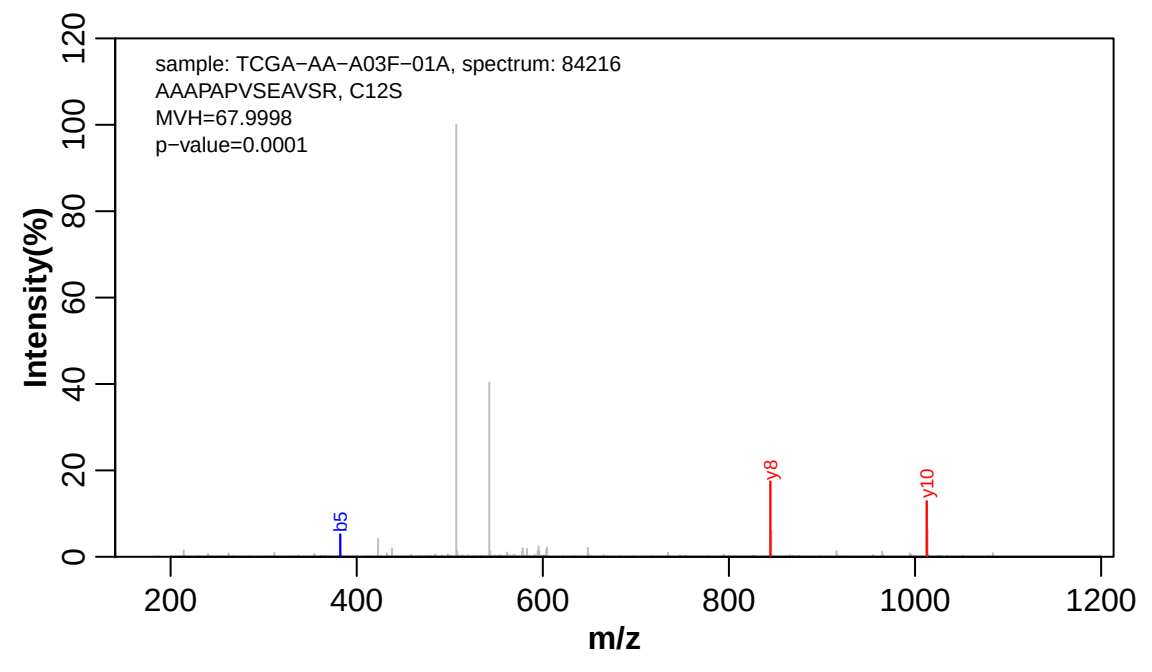

sample: TCGA−AA−A02R−01A, spectrum: 104902
VCVALDECELDVR, M12V
MVH=40.6582
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y2
b3
y3
b4
y4
b5
y5
b6
y8
y7−H2O
y7
b9
y9
b10−NH3
b10
y10
b11
y11
b12

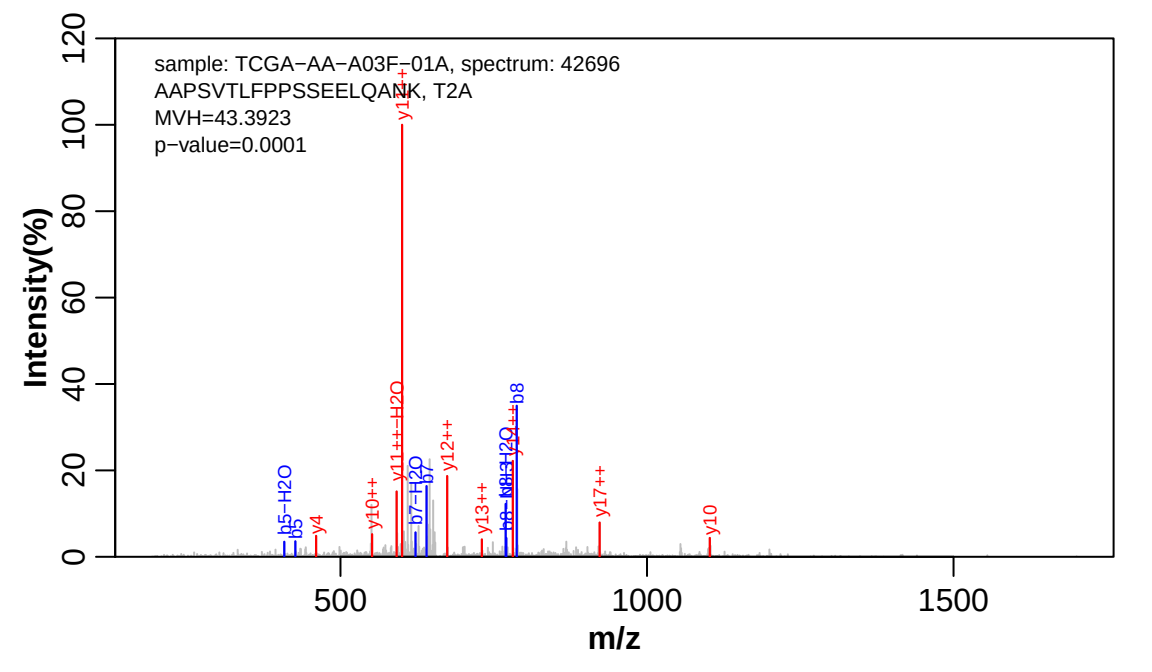

sample: TCGA−AA−A02R−01A, spectrum: 60241
VPVTQATR, L3V
MVH=35.7887
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
b4−NH3
y4
y5−NH3
y5
y6
y7

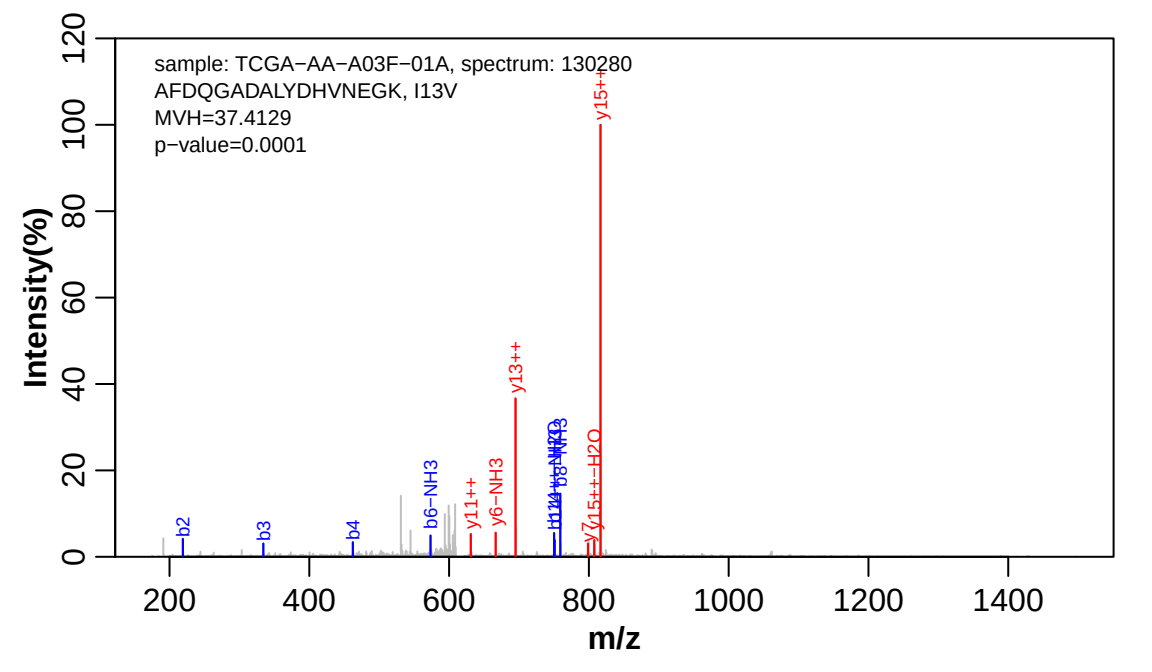

sample: TCGA−AA−A02R−01A, spectrum: 107537
VQLPTESLQELLDLHR, T7S
MVH=68.7043
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b6
y6
b8
y7
y8
b10
y9
y10
b11
y12
b13
y13
y14
b15

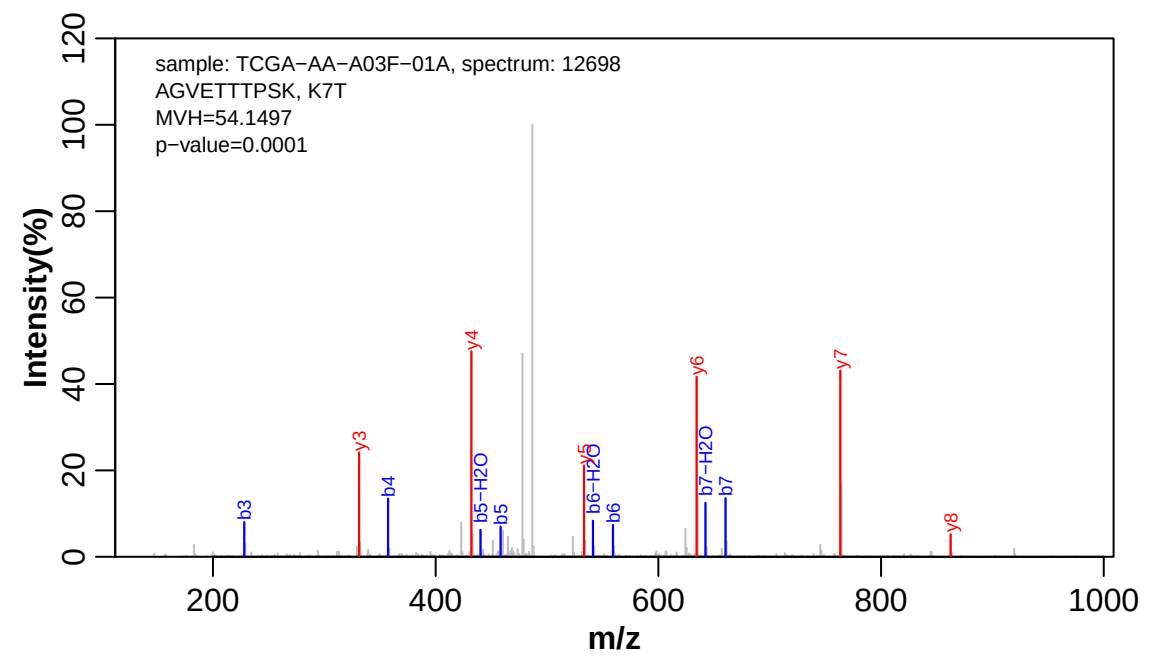

sample: TCGA−AA−A02R−01A, spectrum: 145768
VVLQPEALFSLYSK, F8L
MVH=47.4412
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
y7
b9
y10
y11
y12

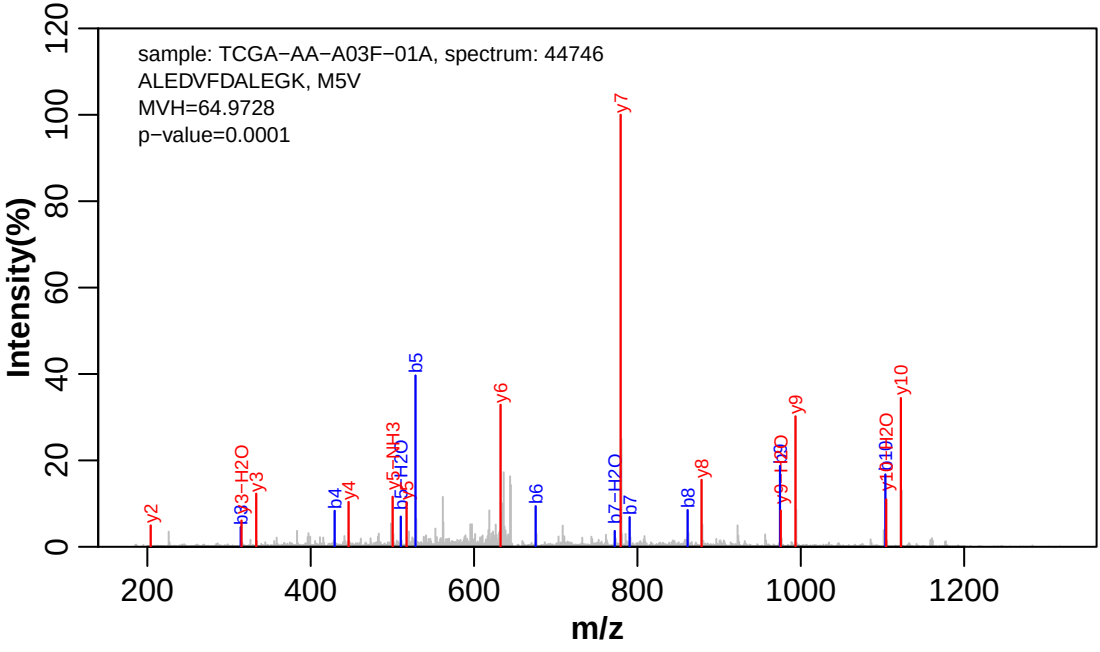

sample: TCGA−AA−A03F−01A, spectrum: 65597
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=43.9497
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b13−H2O
b27++−H2O
b28++−H2O
b9
b8
b21++
b15
b5
y4
b6
y5
b7−NH3
b7−H2O
y6
b8−NH3
b8−H2O
b8++
b8++−H2O
b23++−H2O
b25++
b26−H2O
y22++
y23++
b26++
y24++−H2O

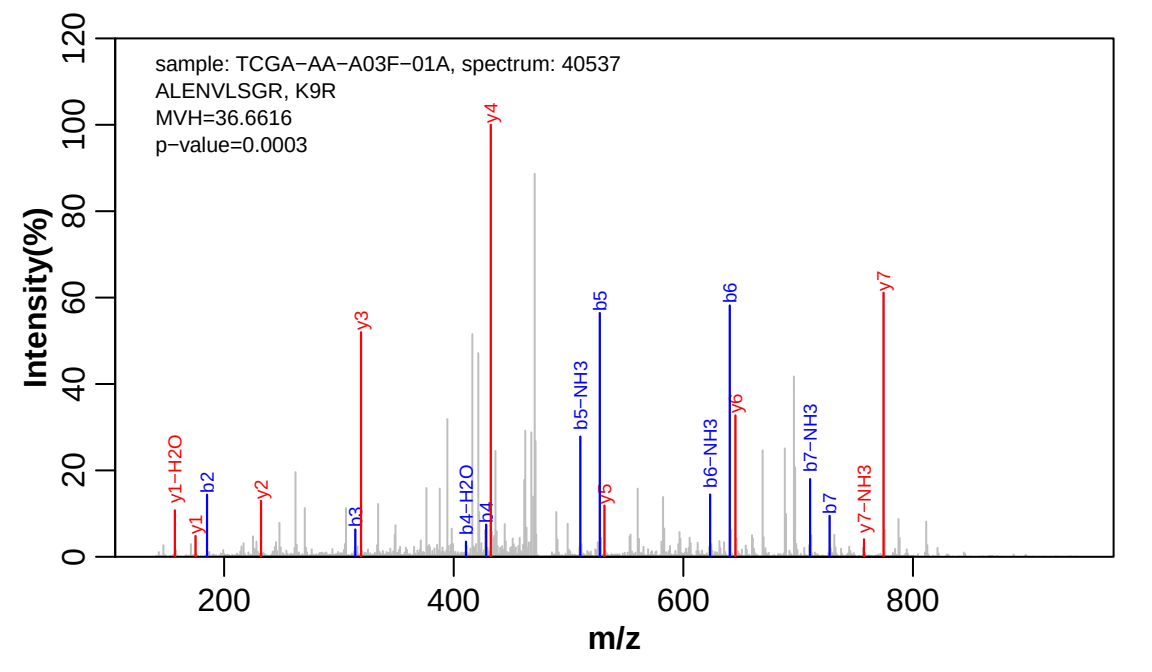

sample: TCGA−AA−A03F−01A, spectrum: 84216
AAAPAPVSEAVSR, C12S
MVH=67.9998
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

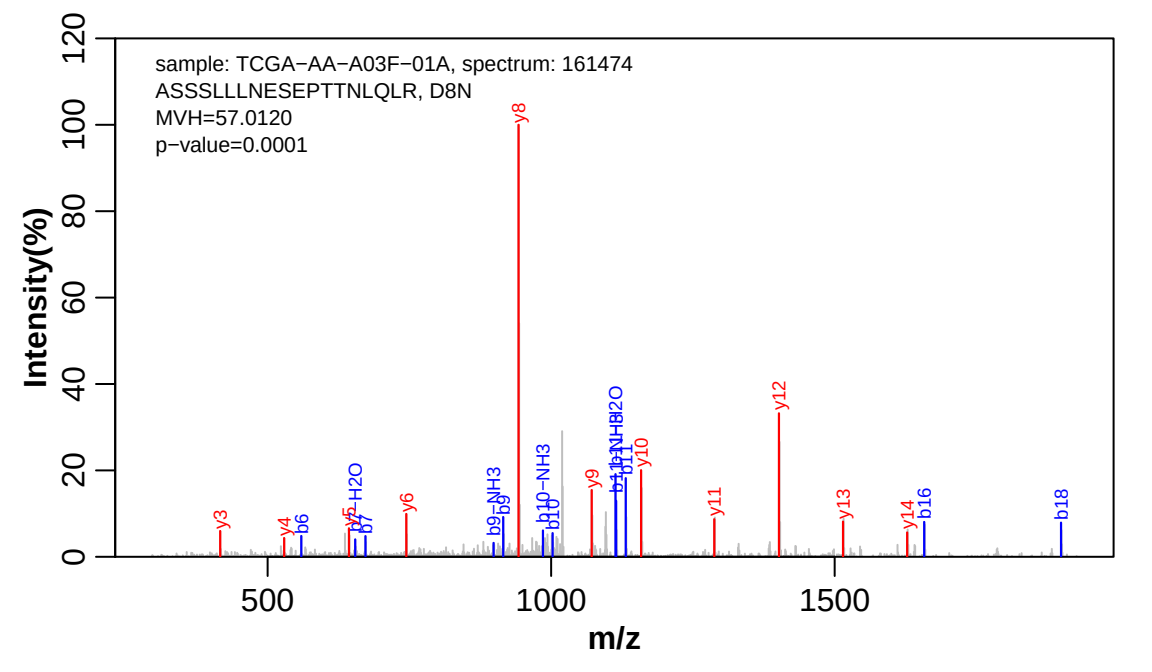

sample: TCGA−AA−A03F−01A, spectrum: 42696
AAPSVTLFPPSSEELQANK, T2A
MVH=43.3923
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y11++−H2O
y12++
y10++
y13++
y17++
y10
b5−H2O
b5
y4
b7−H2O
b7
b8

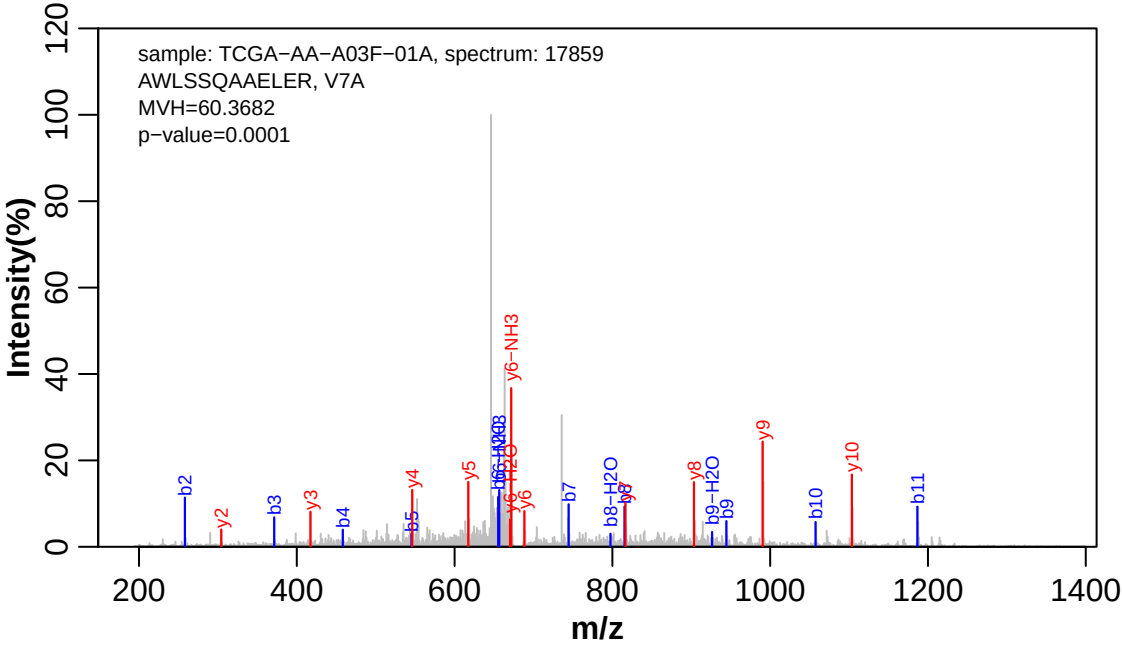

sample: TCGA−AA−A03F−01A, spectrum: 130280
AFDQGADALYDHVNEGK, I13V
MVH=37.4129
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
b4
b6−NH3
y11++
y6−NH3
y13++
y15++
y15++−H2O

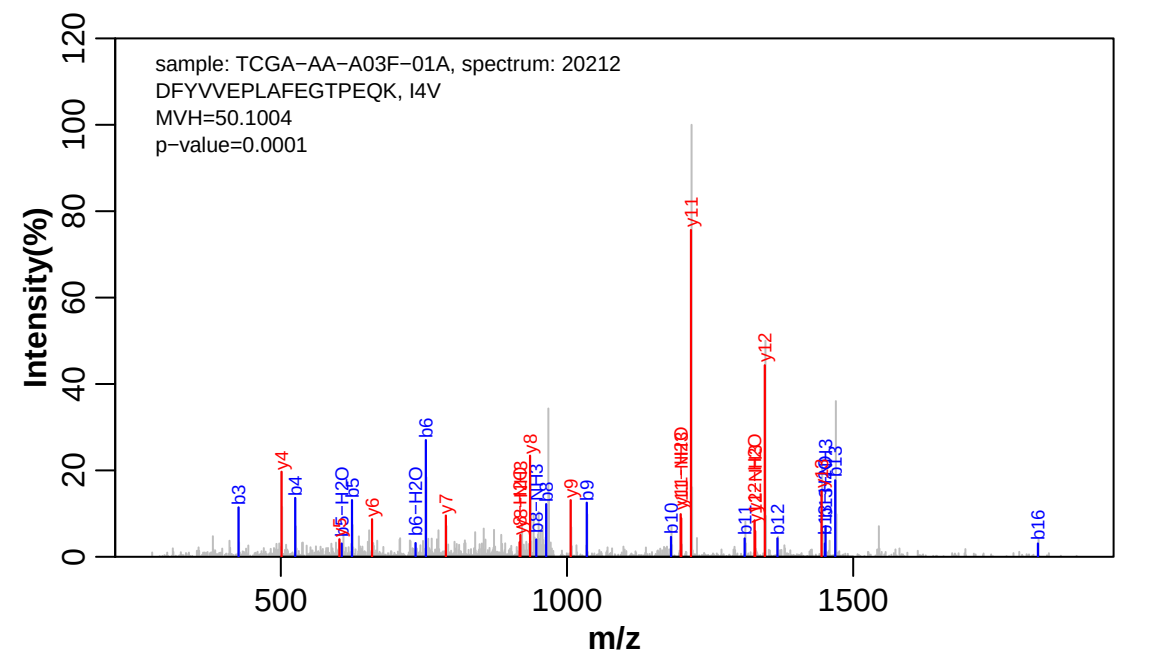

sample: TCGA−AA−A03F−01A, spectrum: 12698
AGVETTTPSK, K7T
MVH=54.1497
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

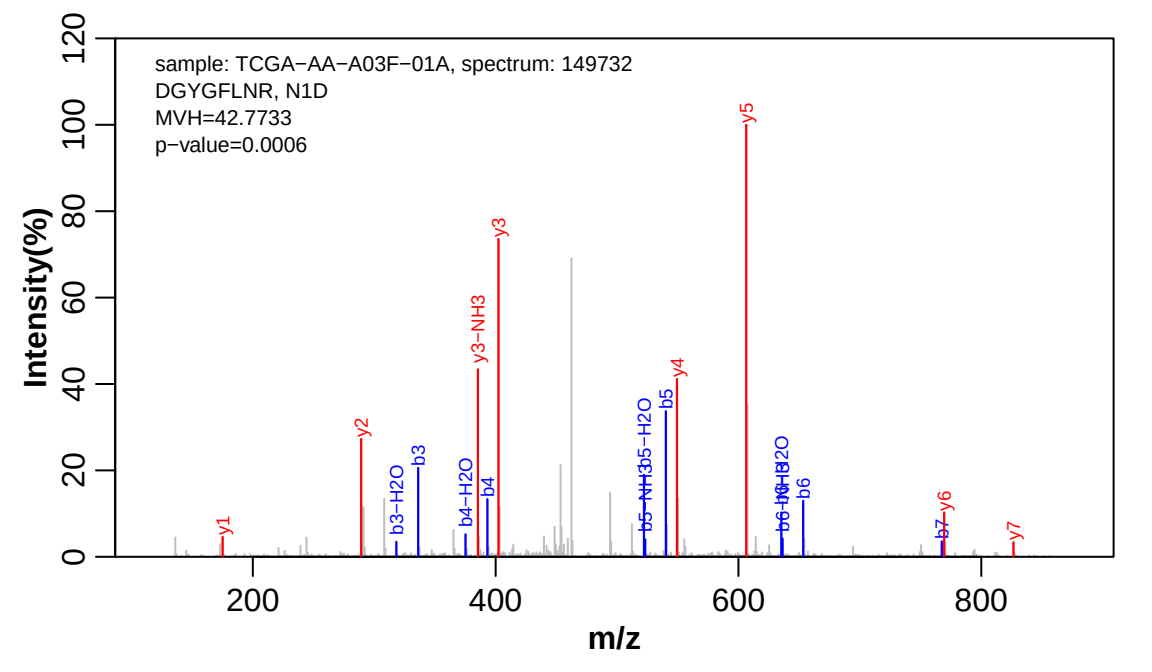

sample: TCGA−AA−A03F−01A, spectrum: 44746
ALEDVFDALEGK, M5V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
b5−H2O
b5−NH3
b5
y6
b6
b7−H2O
b7
y7
b8
y8
y9−H2O
y9
y10−H2O
y10

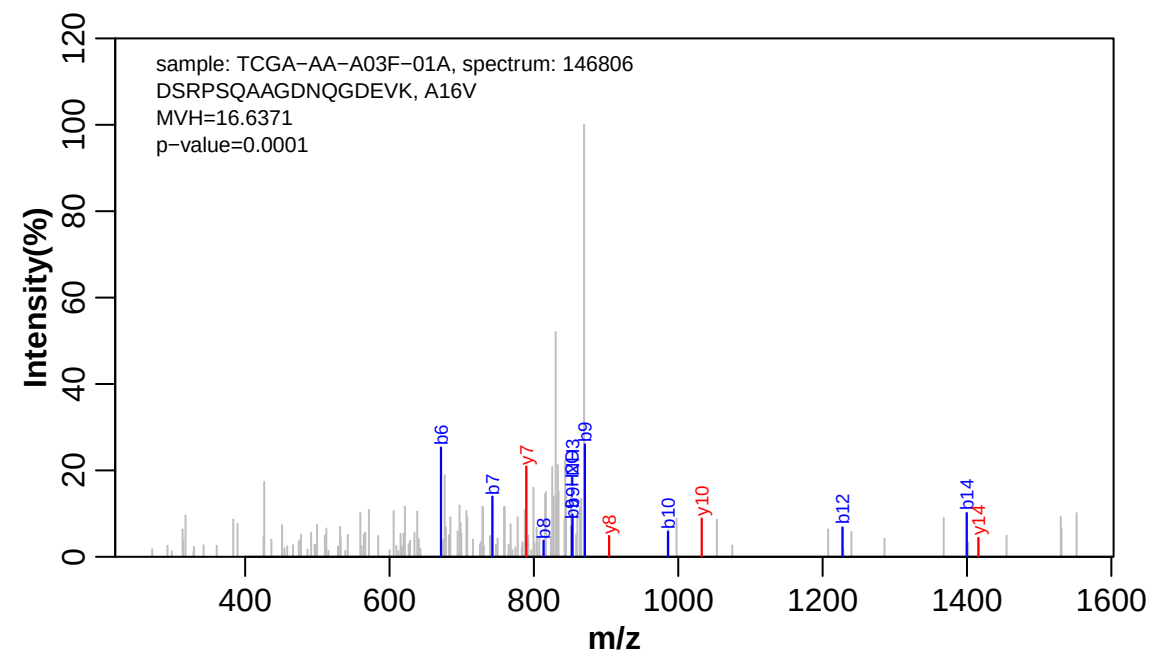

sample: TCGA−AA−A03F−01A, spectrum: 40537
ALENVLSGR, K9R
MVH=36.6616
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−H2O
y1
b2
y2
y3
b3
b4−H2O
b4
y4
b5−NH3
b5
y5
b6−NH3
b6
y6
b7−NH3
b7
y7−NH3
y7

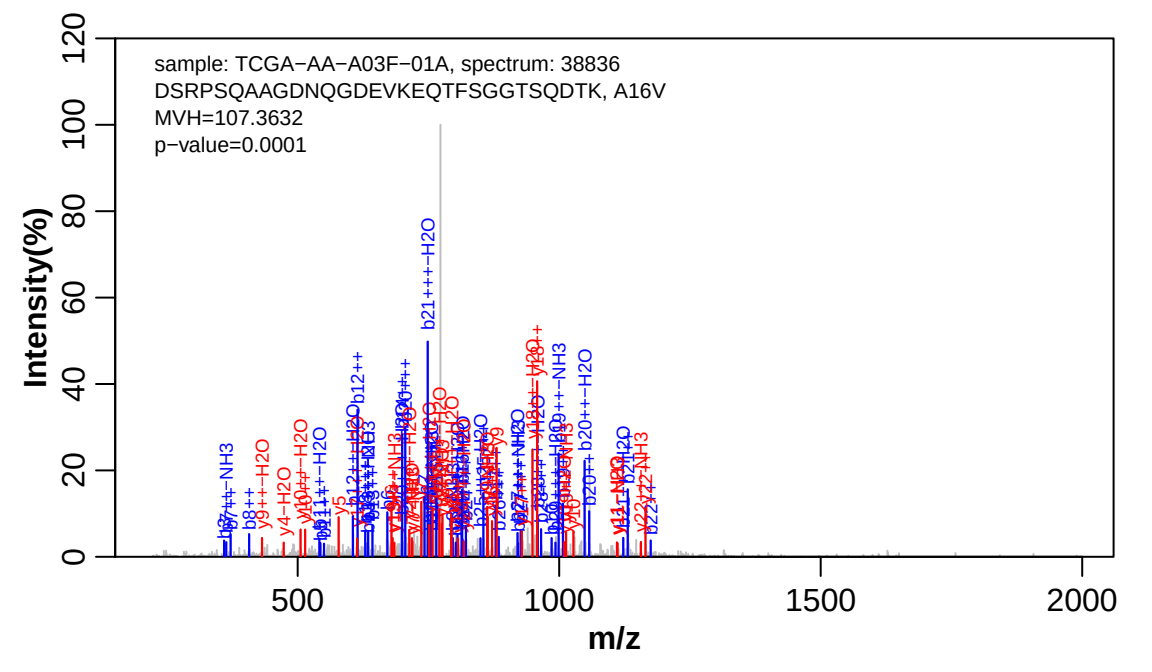

sample: TCGA−AA−A03F−01A, spectrum: 161474
ASSSLLLNESEPTTNLQLR, D8N
MVH=57.0120
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6
y5−H2O
b7
y6
b9−NH3
b9
b10−NH3
b10
y8
y9
b11−H2O
b11
y10
y12
y11
y13
y14
b16
b18

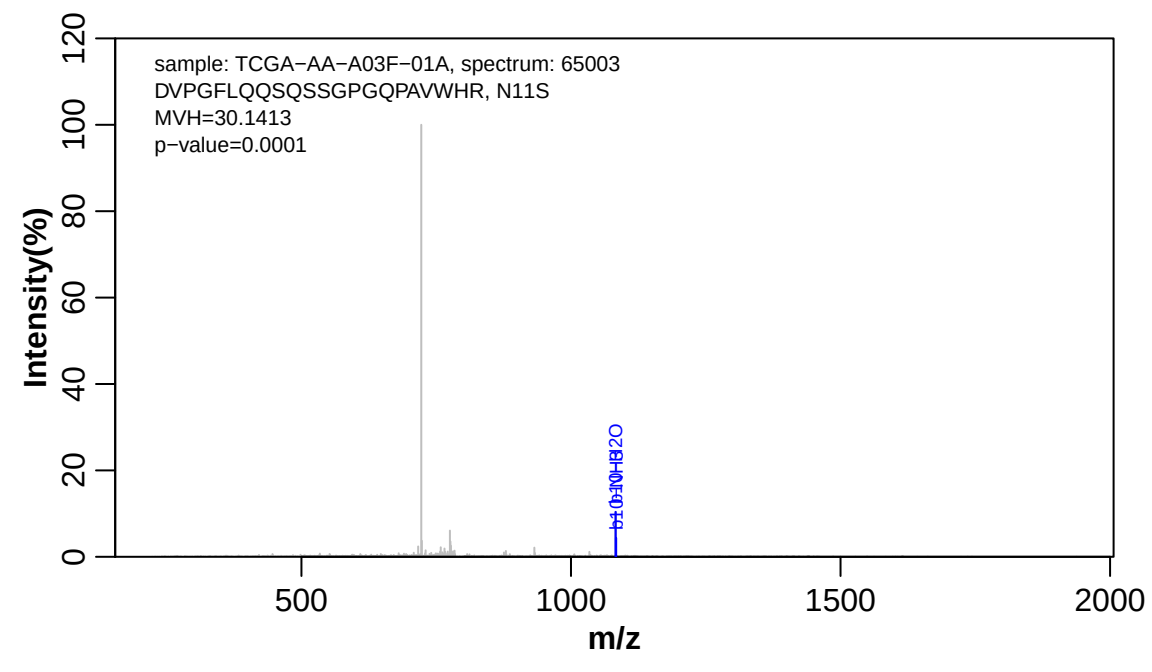

sample: TCGA−AA−A03F−01A, spectrum: 17859
AWLSSQAAELER, V7A
MVH=60.3682
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5
y4
y5
b6−H2O
b6−NH3
b6
y6−H2O
y6
y6−NH3
b7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10
y10
b11

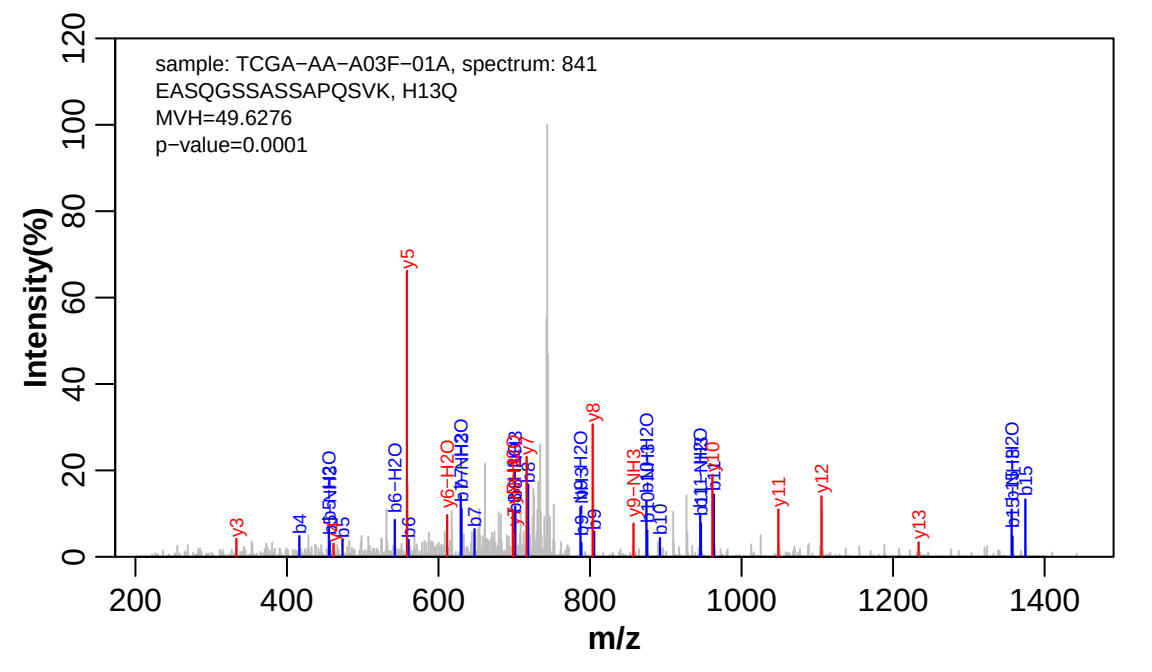

sample: TCGA−AA−A03F−01A, spectrum: 20212
DFYVVEPLAFEGTPEQK, I4V
MVH=50.1004
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5−H2O
b5
y6
b6−H2O
b6
y7
y8−NH3
y8
b8−NH3
b8
y9
b9
y11−NH3
y11
b10
y12−NH3
y12−H2O
y12
b11
b12
b13
b16

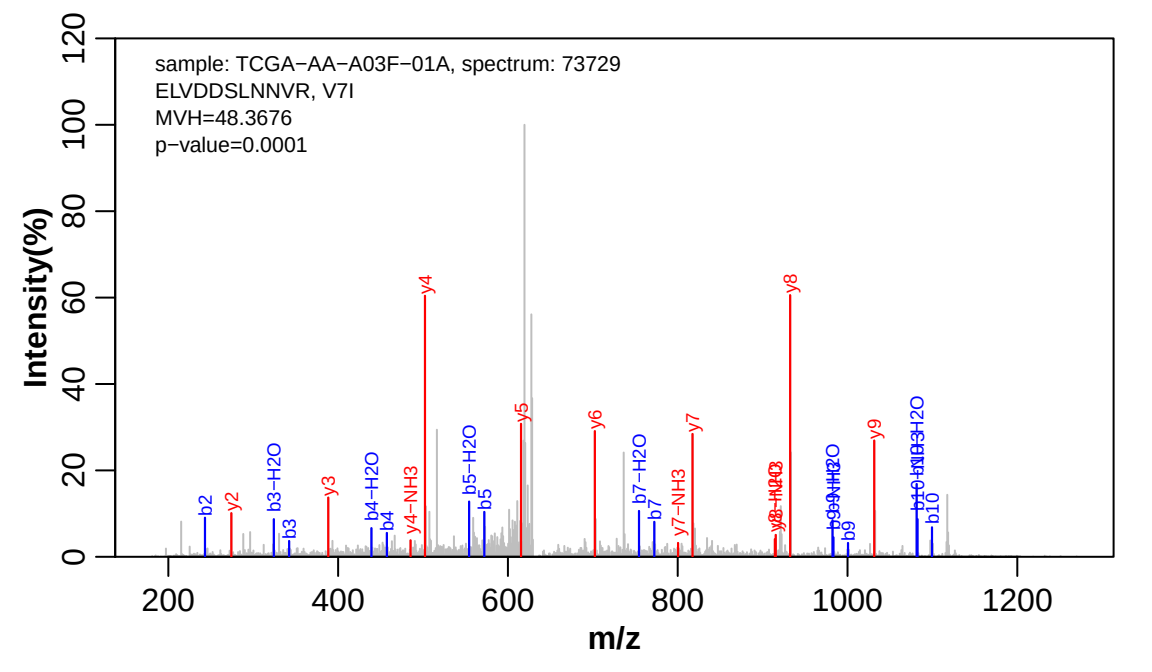

sample: TCGA−AA−A03F−01A, spectrum: 149732
DGYGFLNR, N1D
MVH=42.7733
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6
b7
y6
y7

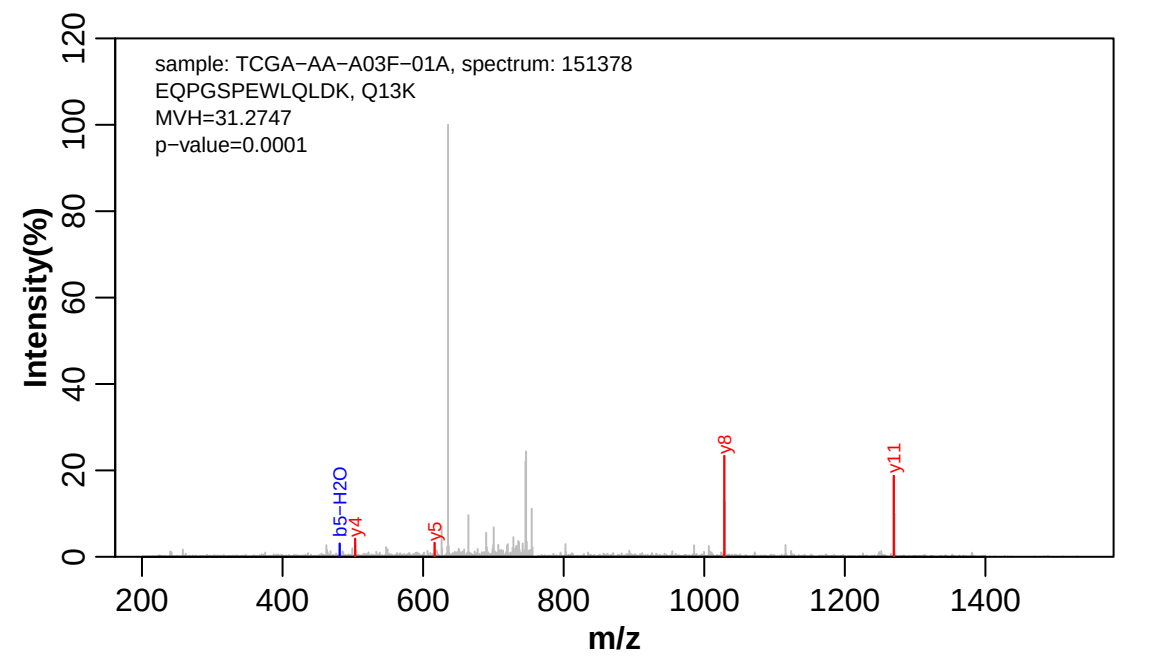

sample: TCGA−AA−A03F−01A, spectrum: 146806
DSRPSQAAGDNQGDEVK, A16V
MVH=16.6371
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
400
600
800
1000
1200
1400
1600
b6
b7
y7
b8
b9
y8
b10
y10
b12
b14
y14

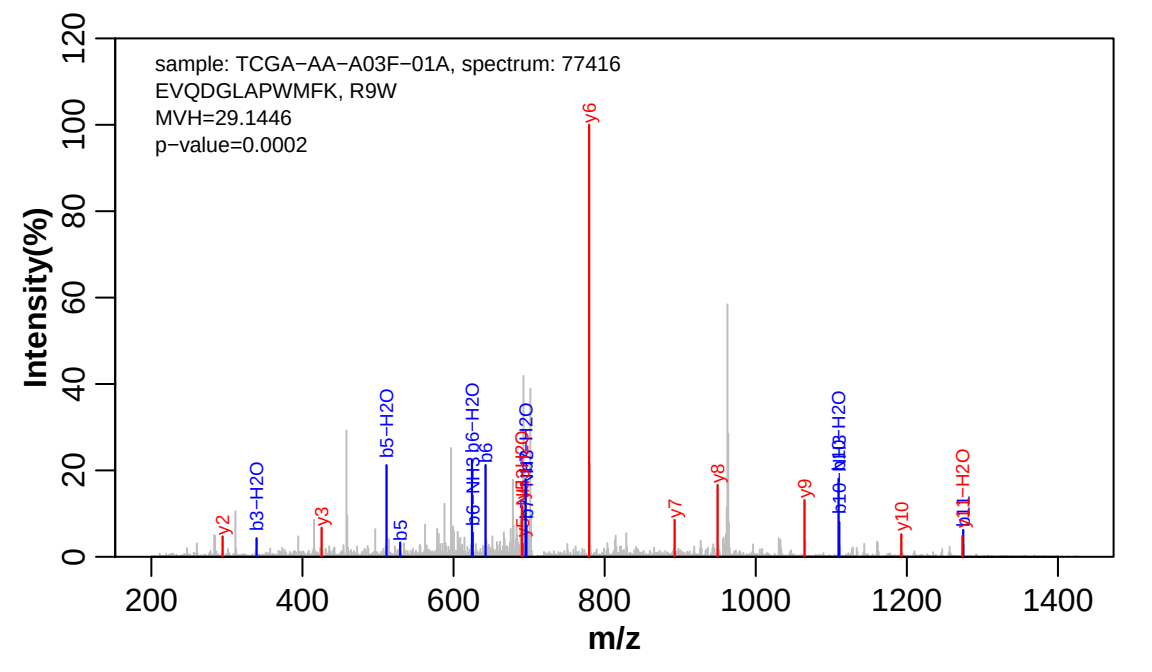

sample: TCGA−AA−A03F−01A, spectrum: 38836
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=107.3632
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

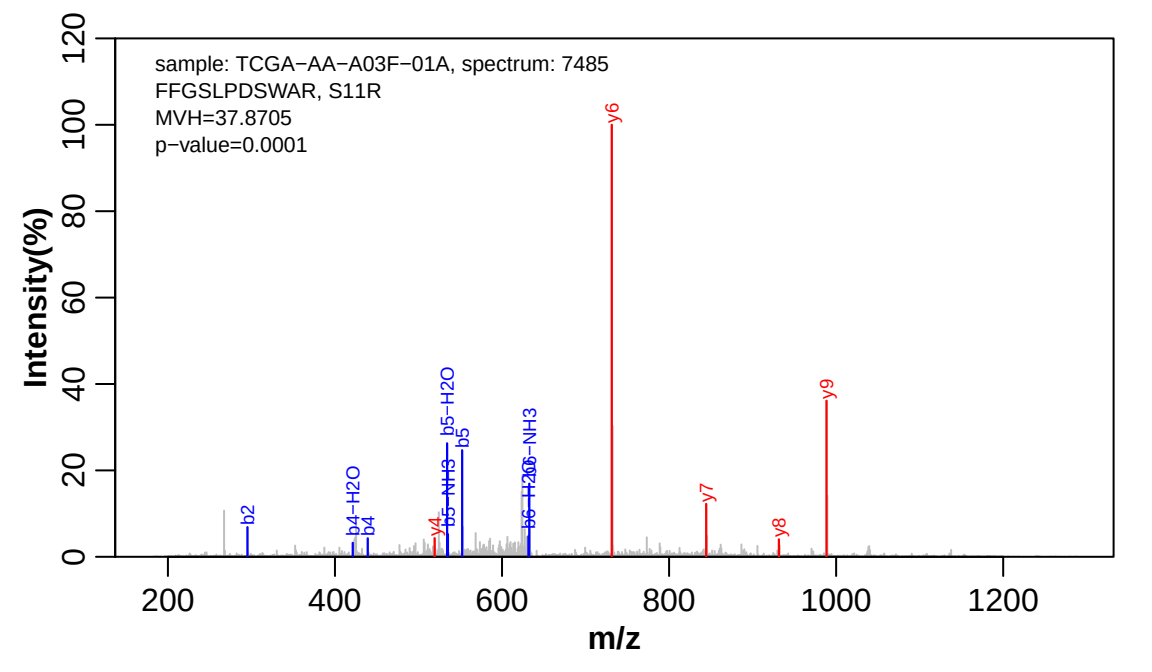

sample: TCGA−AA−A03F−01A, spectrum: 65003
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=30.1413
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

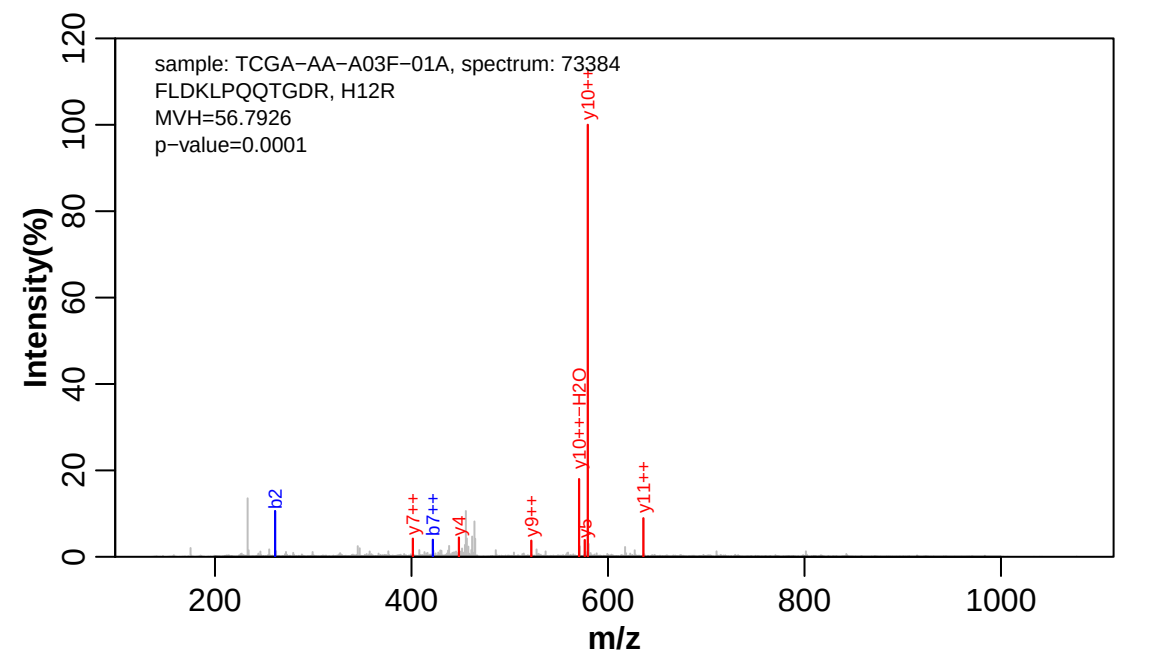

sample: TCGA−AA−A03F−01A, spectrum: 841
EASQGSSASSAPQSVK, H13Q
MVH=49.6276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y11
y12
y13
y3
b4
b5
b6
b7
b15
b6−H2O
y6−H2O
y9−NH3
b10
b11−NH3
b11
b13−H2O
b15

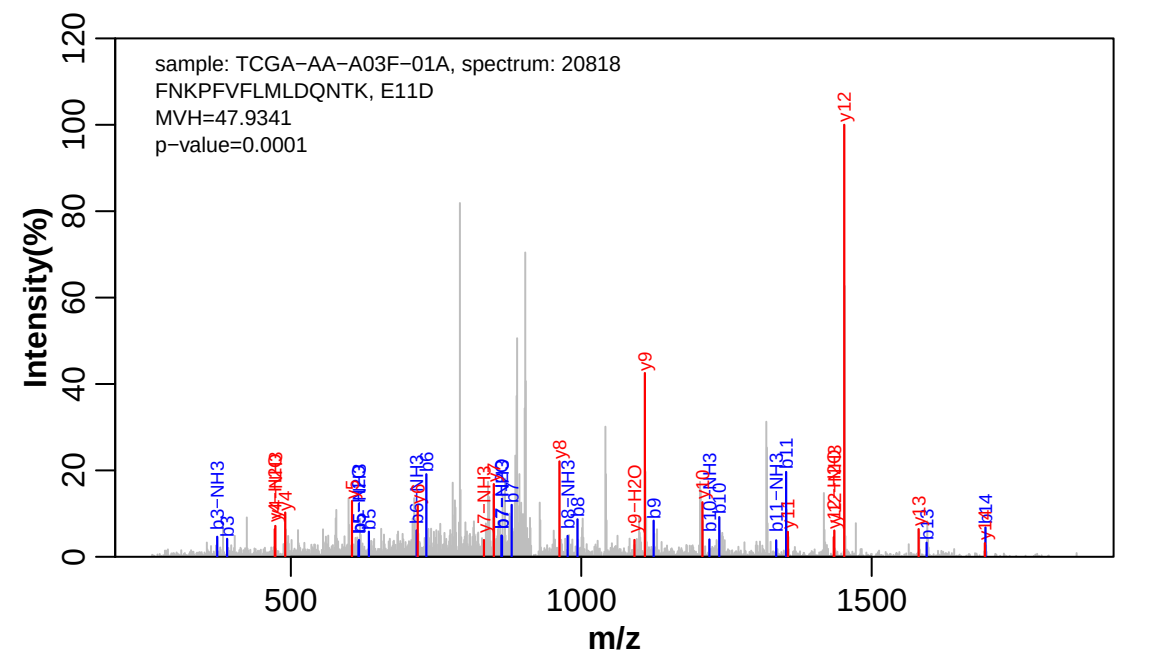

sample: TCGA−AA−A03F−01A, spectrum: 73729
ELVDDSLNNVR, V7I
MVH=48.3676
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7−NH3
y7
y8
y9
b10
b9

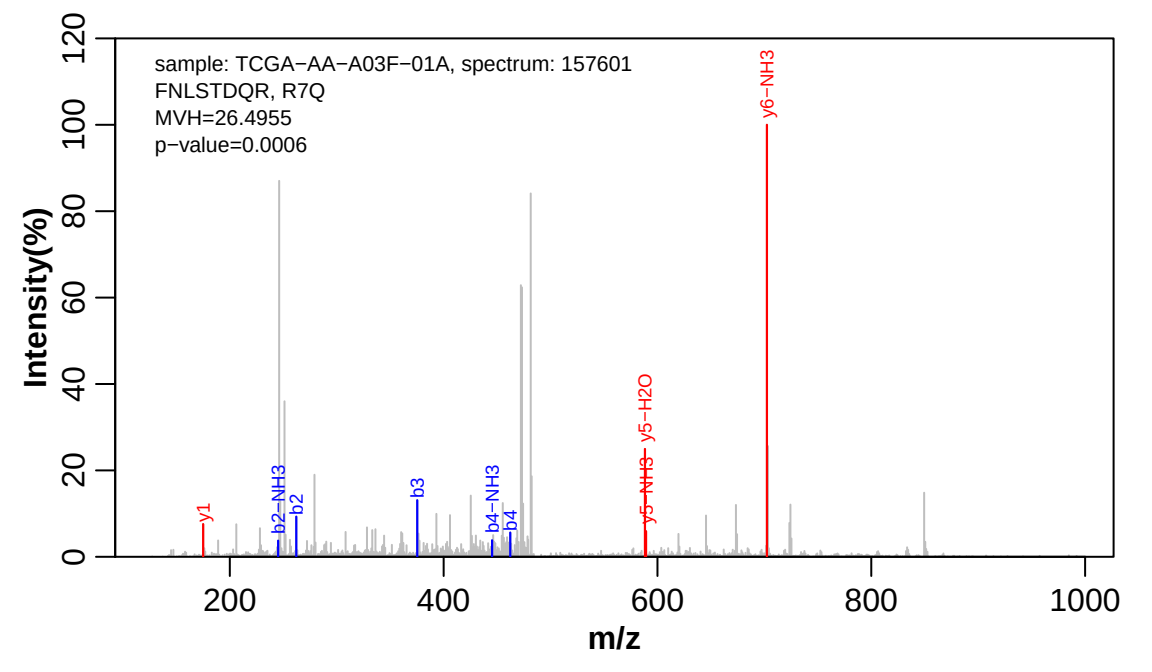

sample: TCGA−AA−A03F−01A, spectrum: 151378
EQPGSPEWLQLDK, Q13K
MVH=31.2747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

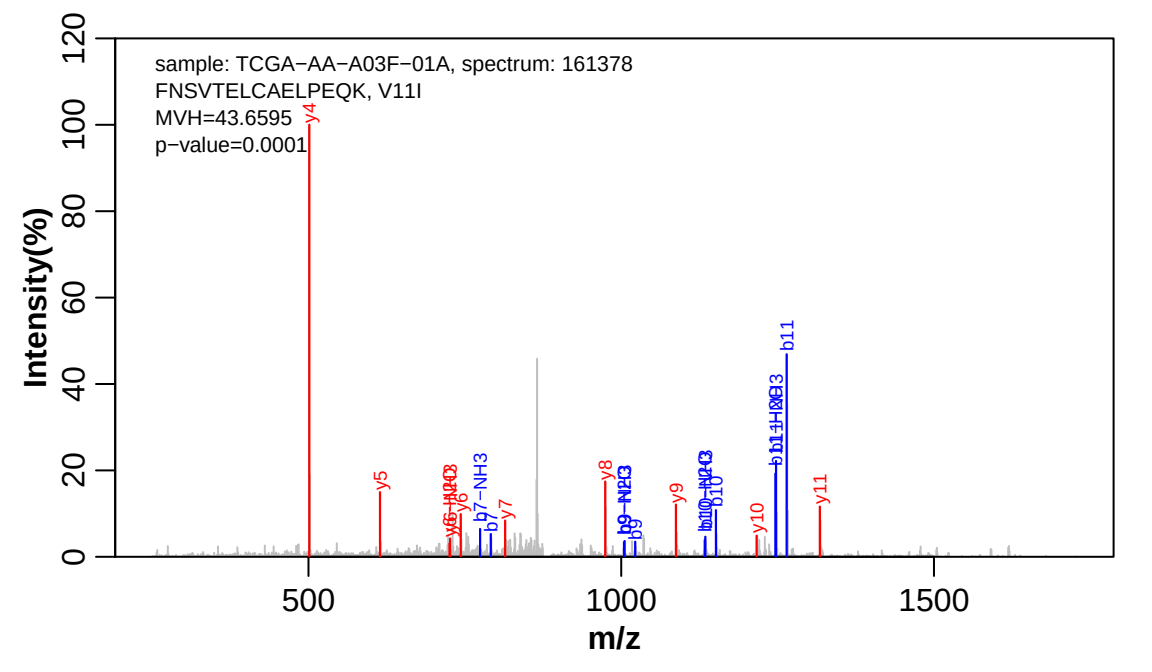

sample: TCGA−AA−A03F−01A, spectrum: 77416
EVQDGLAPWMFK, R9W
MVH=29.1446
p−value=0.0002
Intensity(%)
m/z
y6
y2
b3−H2O
y3
b5−H2O
b5
b6−NH3
b6−H2O
b6
y7
y8
y9
y10
b11−H2O

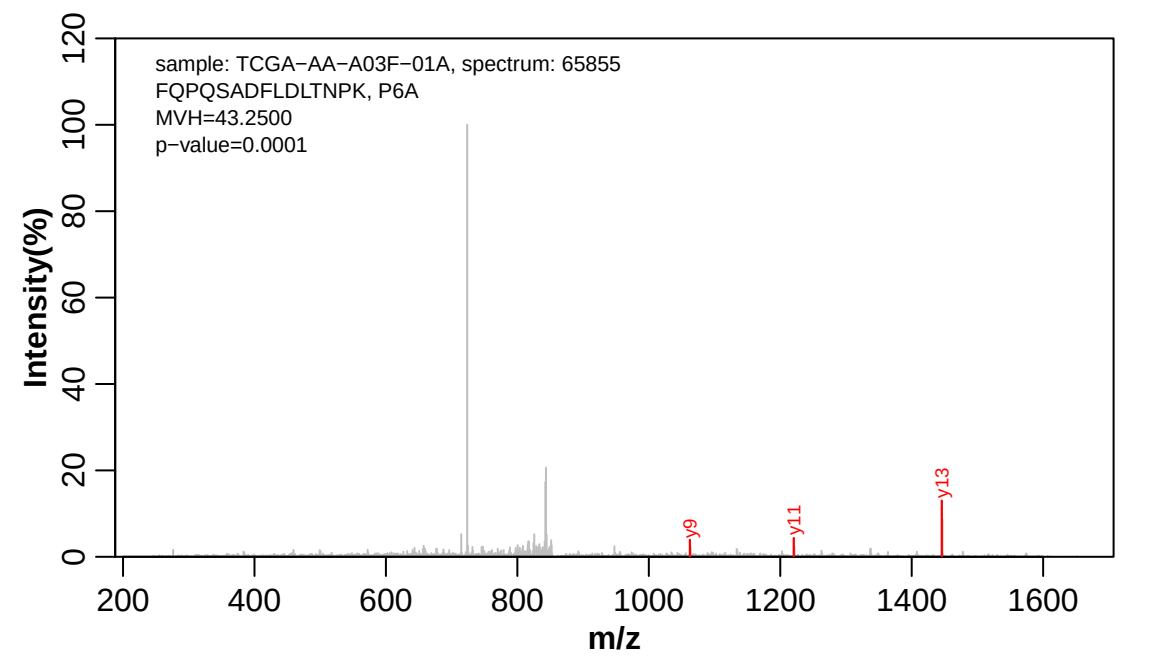

sample: TCGA−AA−A03F−01A, spectrum: 7485
FFGSLPDSWAR, S11R
MVH=37.8705
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

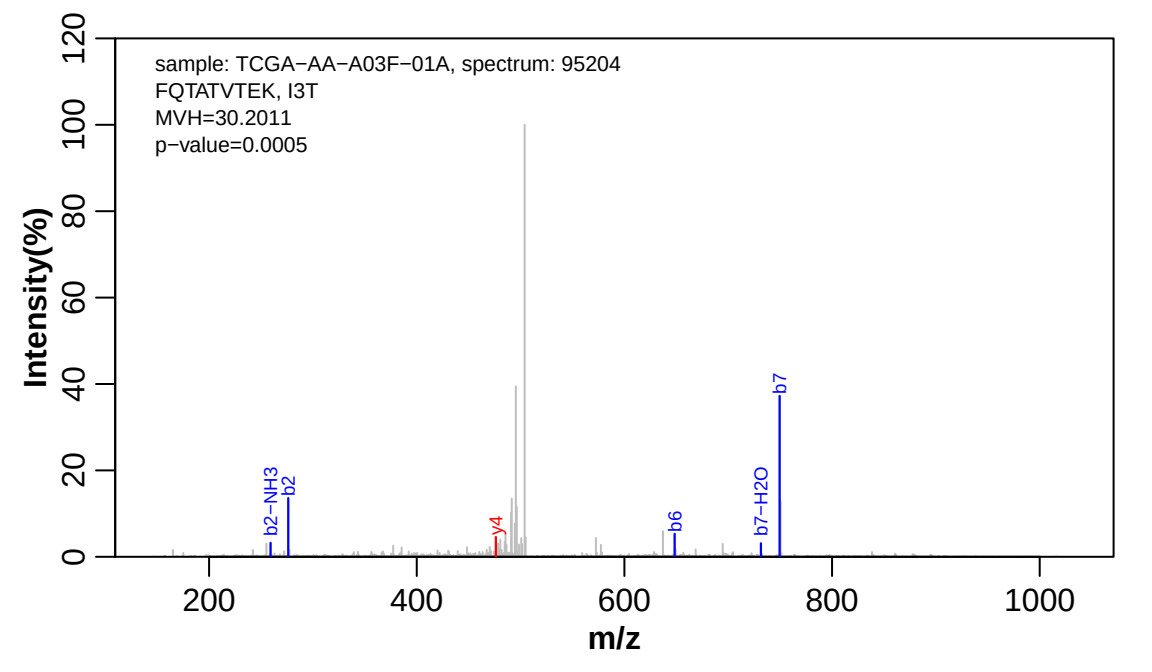

sample: TCGA−AA−A03F−01A, spectrum: 73384
FLDKLPQQTGDR, H12R
MVH=56.7926
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

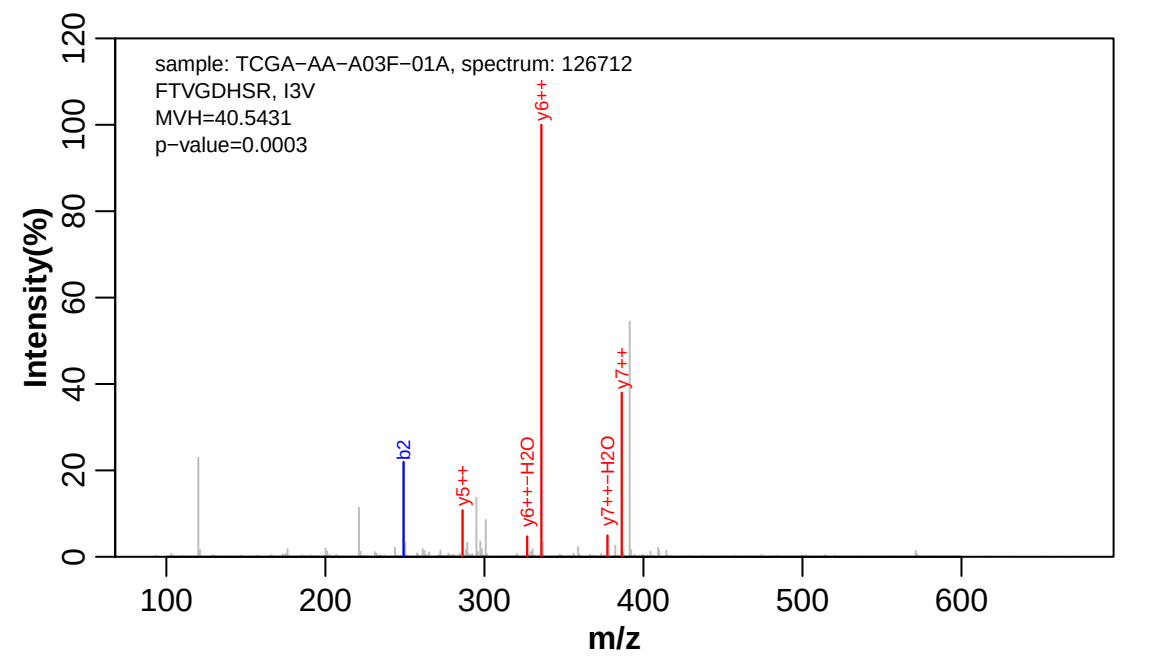

sample: TCGA−AA−A03F−01A, spectrum: 20818
FNKPFVFLMLDQNTK, E11D
MVH=47.9341
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y8
y9−H2O
b3−NH3
b3
b5
b6
b6−NH3
b7−NH3
b8−NH3
b8
b9
b10−NH3
b10
b11−NH3
b11
y11
y13
b13
y14

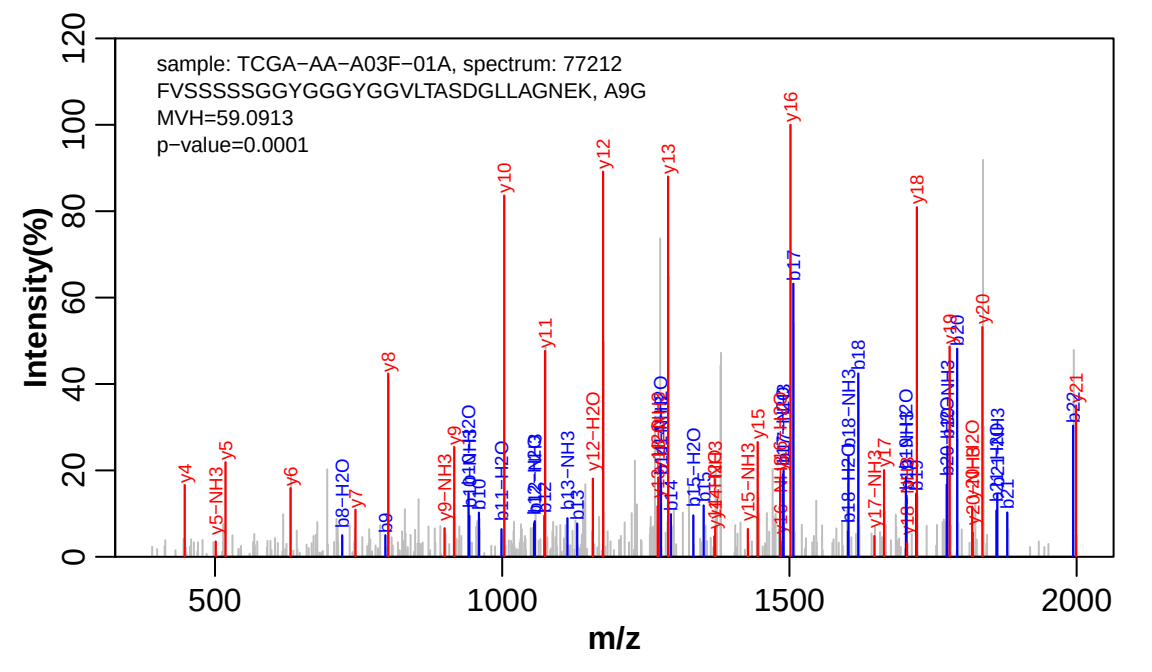

sample: TCGA−AA−A03F−01A, spectrum: 157601
FNLSTDQR, R7Q
MVH=26.4955
p−value=0.0006
Intensity(%)
m/z
y6−NH3
y5−NH3
y5−H2O
b4−NH3
b2−NH3
y1
b2
b3
b4

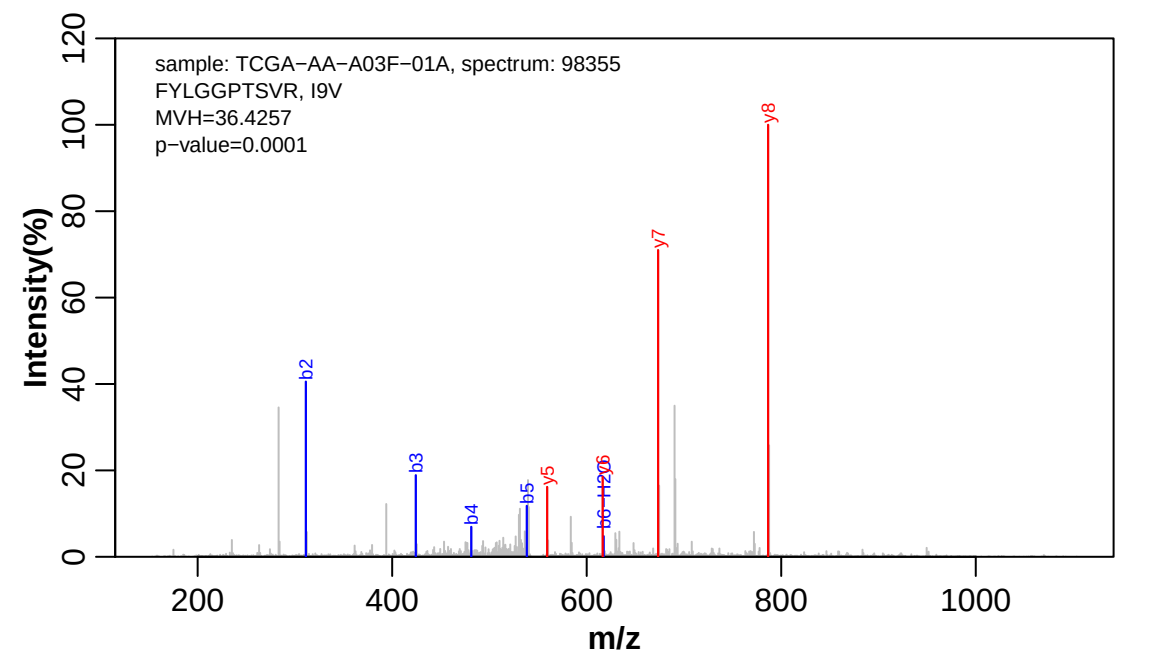

sample: TCGA−AA−A03F−01A, spectrum: 161378
FNSVTELCAELPEQK, V11I
MVH=43.6595
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y7
b7−NH3
y8
y9
y10
b10
b11
y11

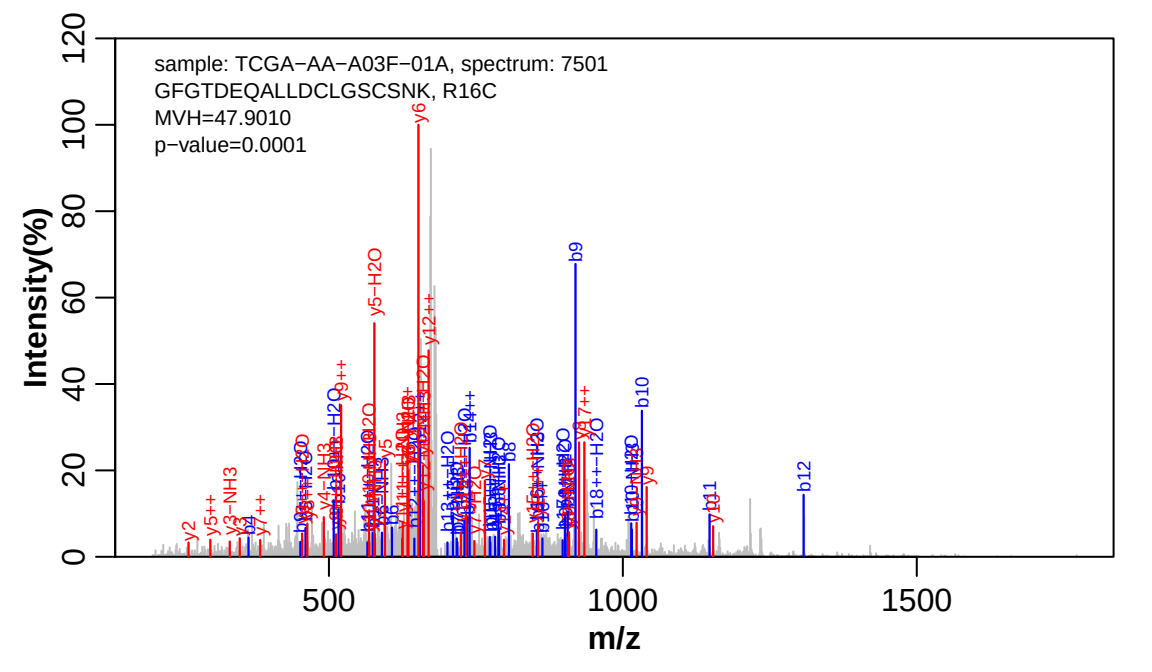

sample: TCGA−AA−A03F−01A, spectrum: 65855
FQPQSADFLDLTNPK, P6A
MVH=43.2500
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
y9
y11
y13

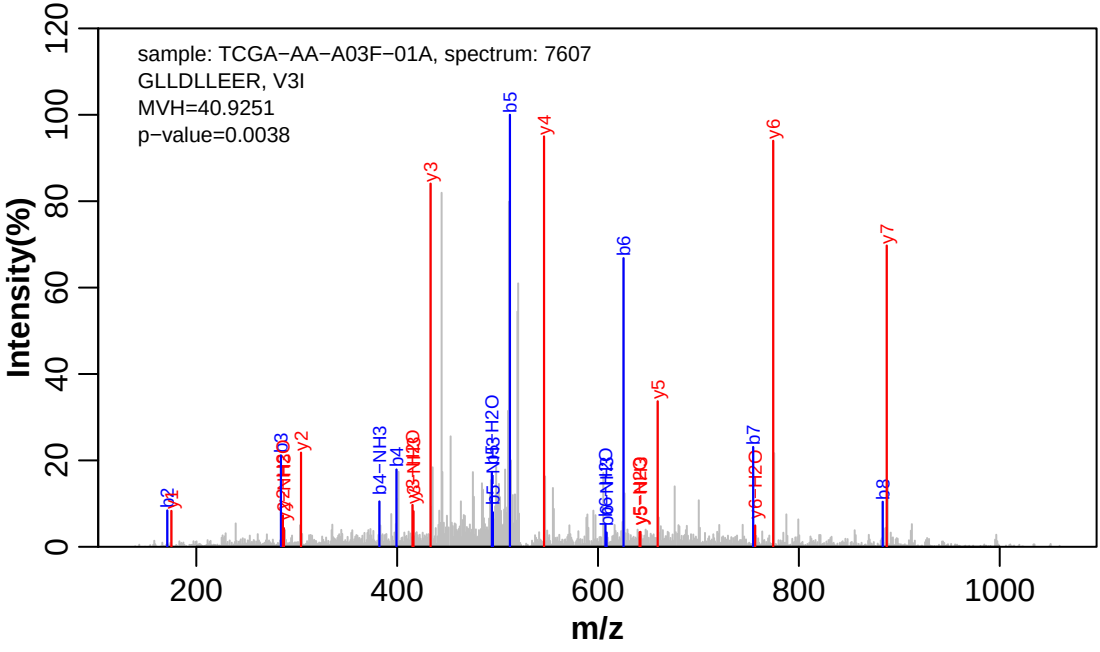

sample: TCGA−AA−A03F−01A, spectrum: 95204
FQTATVTEK, I3T
MVH=30.2011
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
y4
b6
b7−H2O
b7

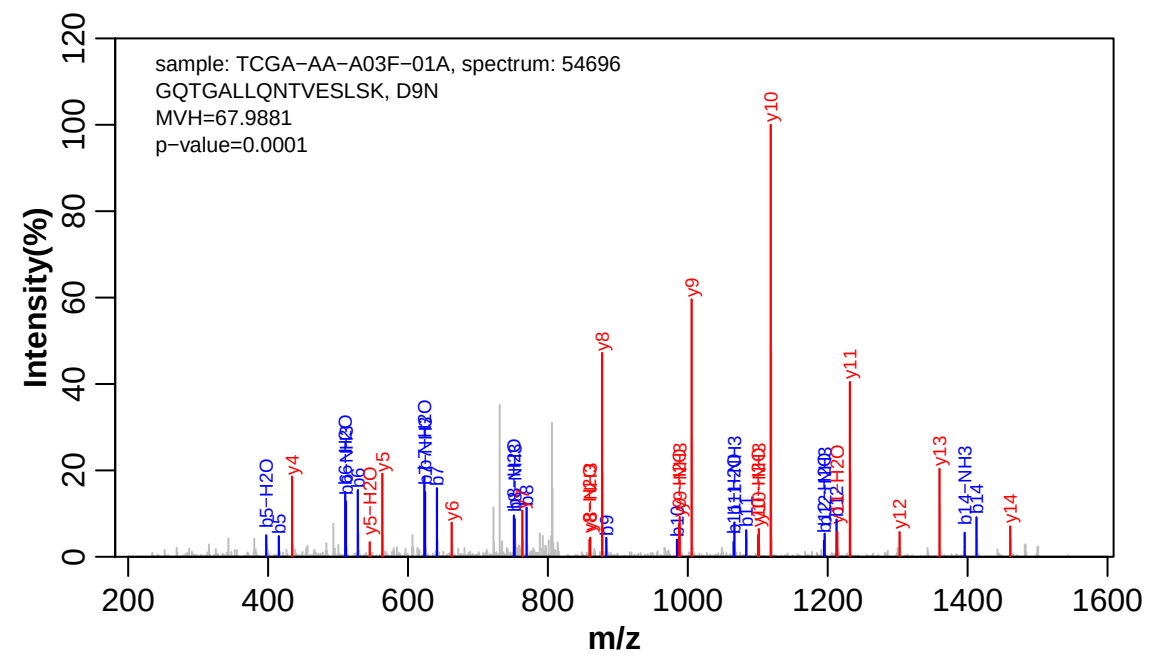

sample: TCGA−AA−A03F−01A, spectrum: 126712
FTVGDHSR, I3V
MVH=40.5431
p−value=0.0003
y6++
b2
y5++
y6++−H2O
y7++−H2O
y7++
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
m/z

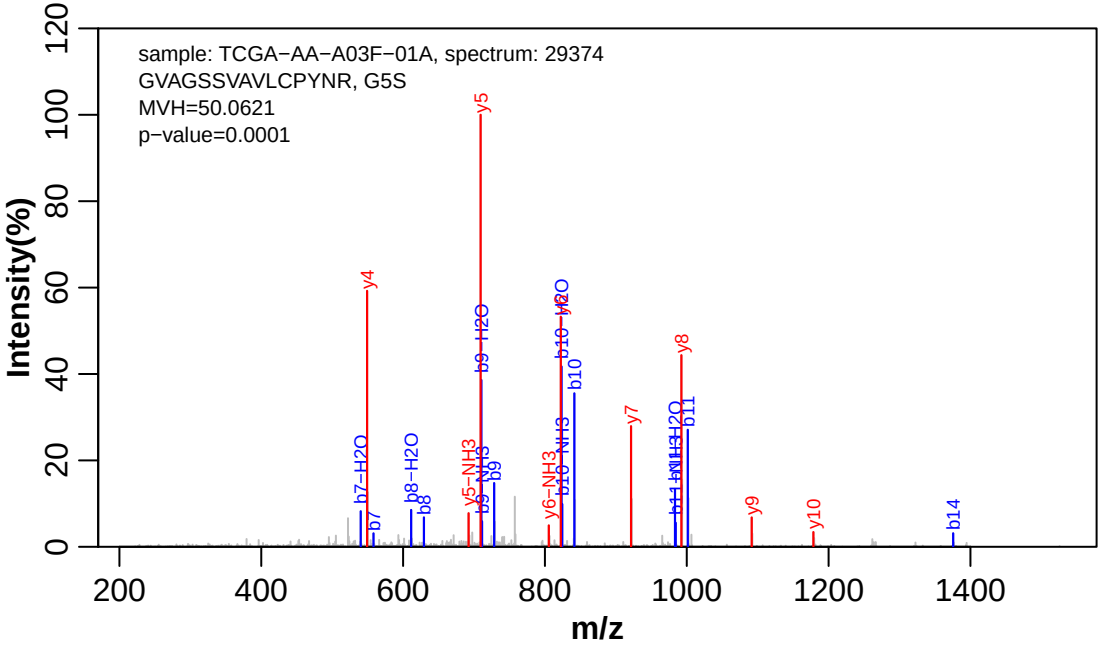

sample: TCGA−AA−A03F−01A, spectrum: 77212
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=59.0913
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5−NH3
y5
y6
b8−H2O
y7
y8
b9
y9−NH3
y9
b10−NH3
b10−H2O
b11−H2O
y10
b12−NH3
b12
b13−NH3
b13
y11
y12−H2O
y12
b14
b15−H2O
b15
y15−NH3
y15
y16
b17
b18−NH3
b18
b18−H2O
y17−NH3
y17
y18
y20
b21
b22
y21

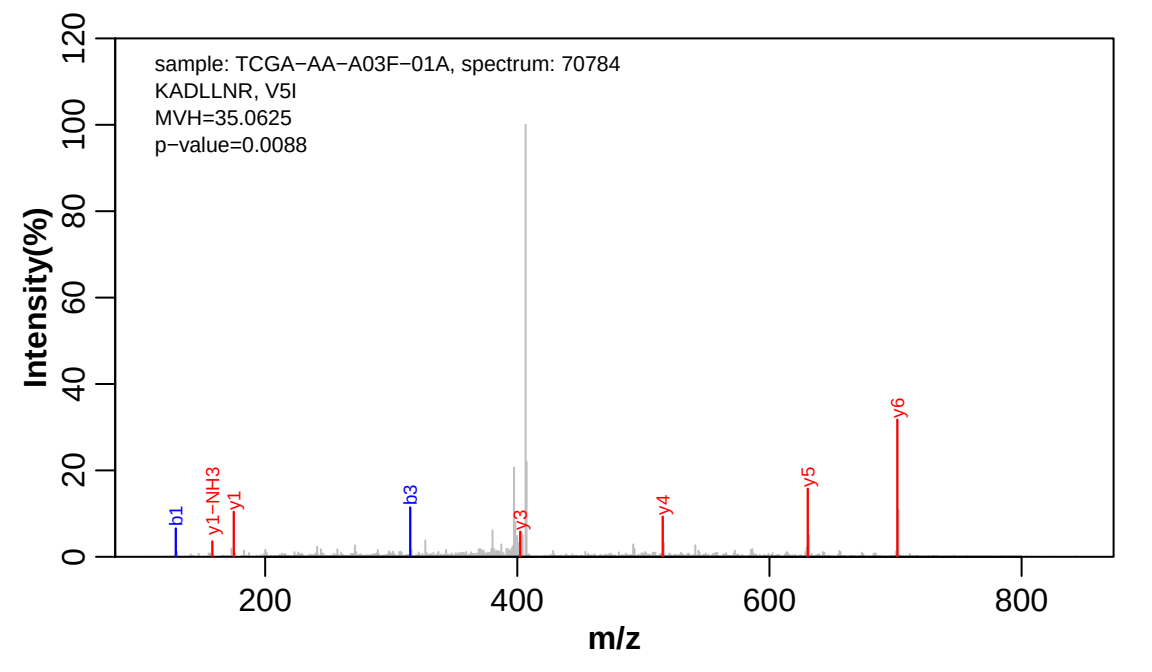

sample: TCGA−AA−A03F−01A, spectrum: 98355
FYLGGPTSVR, I9V
MVH=36.4257
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

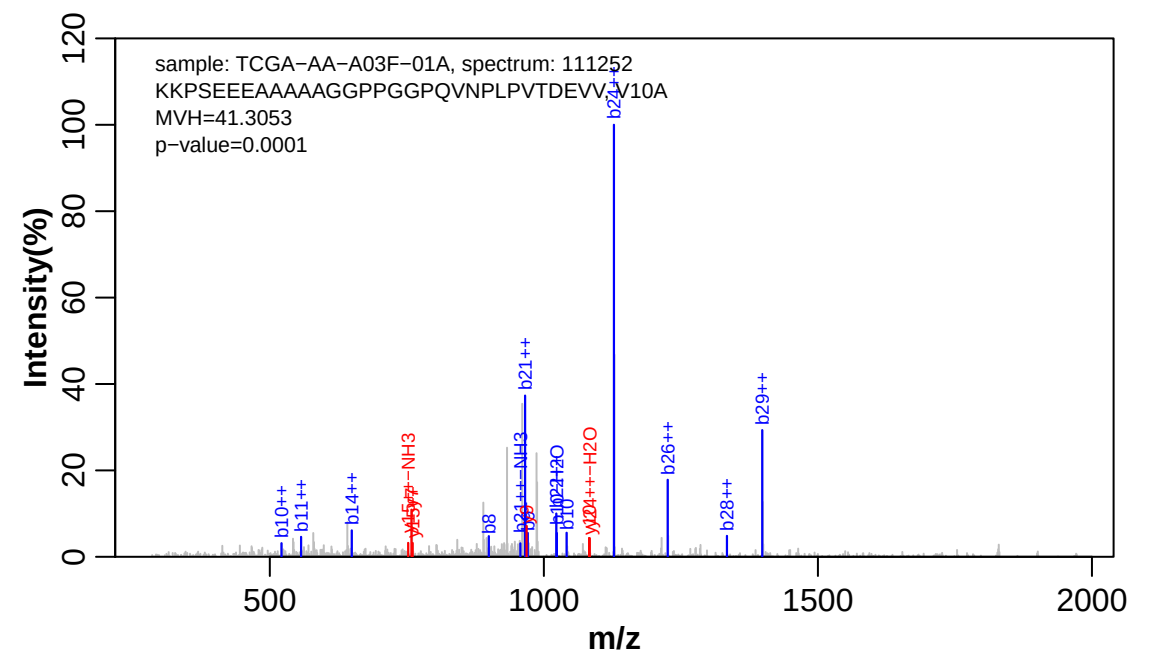

sample: TCGA−AA−A03F−01A, spectrum: 7501
GFGTDEQALLDCLGSCSNK, R16C
MVH=47.9010
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y12++
b9
b10
b12
y11
y2
y5++
y3−NH3
y4
y7++
y9++
y8++
b18++−H2O

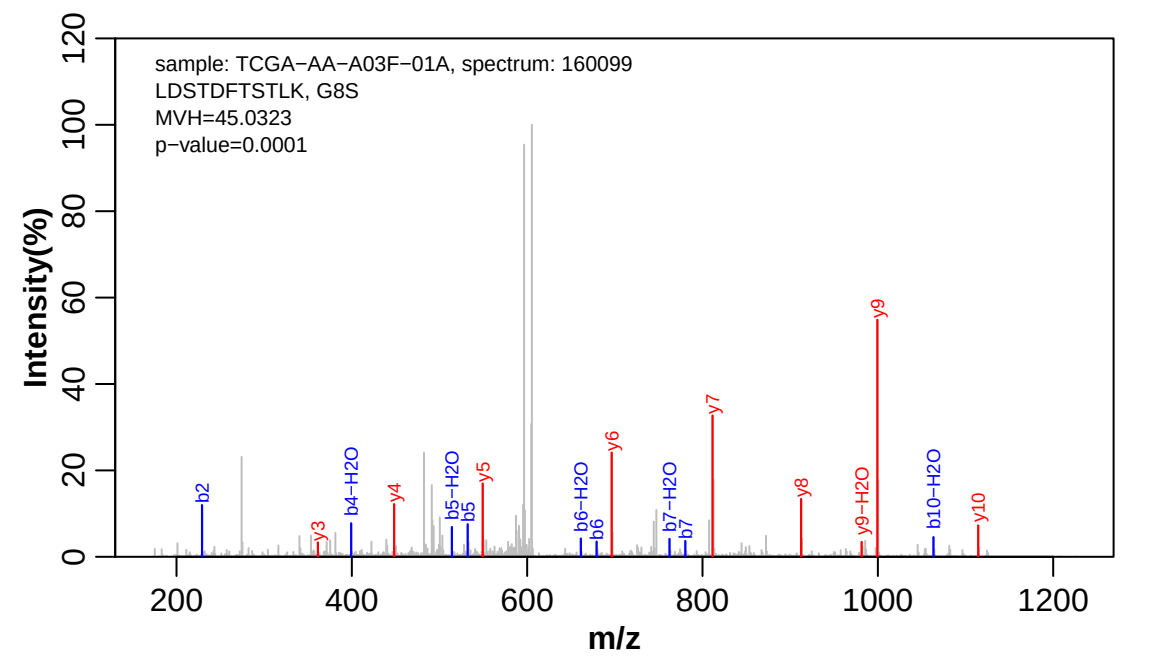

sample: TCGA−AA−A03F−01A, spectrum: 7607
GLLDLLEER, V3I
MVH=40.9251
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
y6
y7
b6
y5
b7
b8
y2
b4−NH3
b4
b5−H2O
y6−H2O
y5−NH3

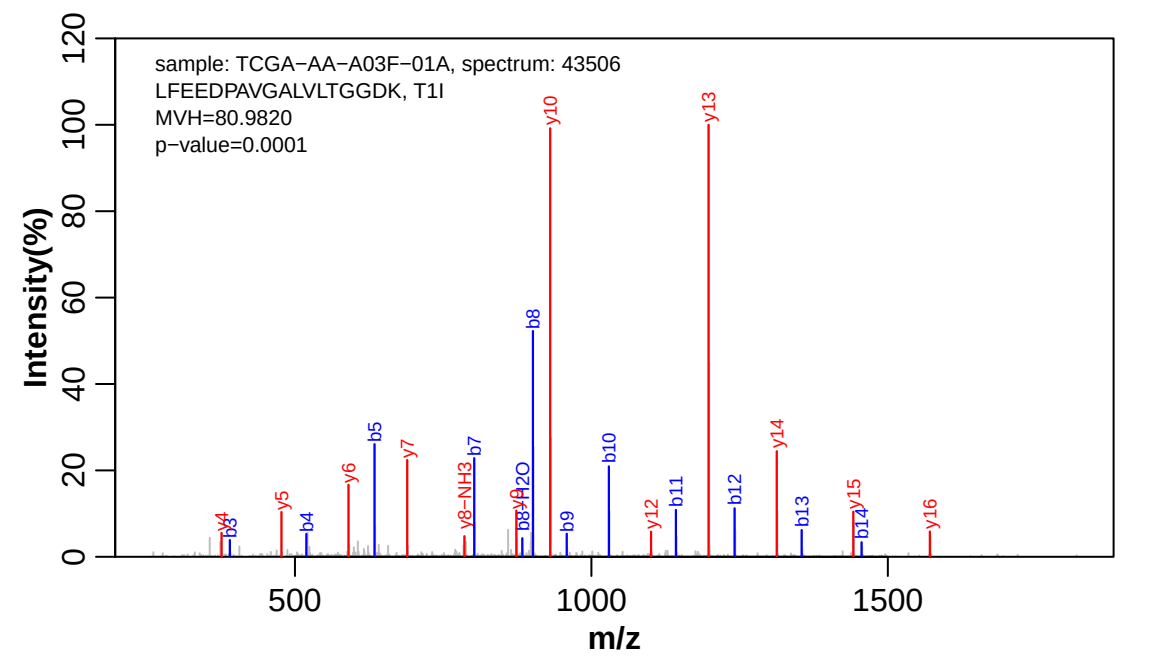

sample: TCGA−AA−A03F−01A, spectrum: 54696
GQTGALLQNTVESLSK, D9N
MVH=67.9881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
y4
y5
y6
b5−H2O
b5
y5−H2O
b14−NH3

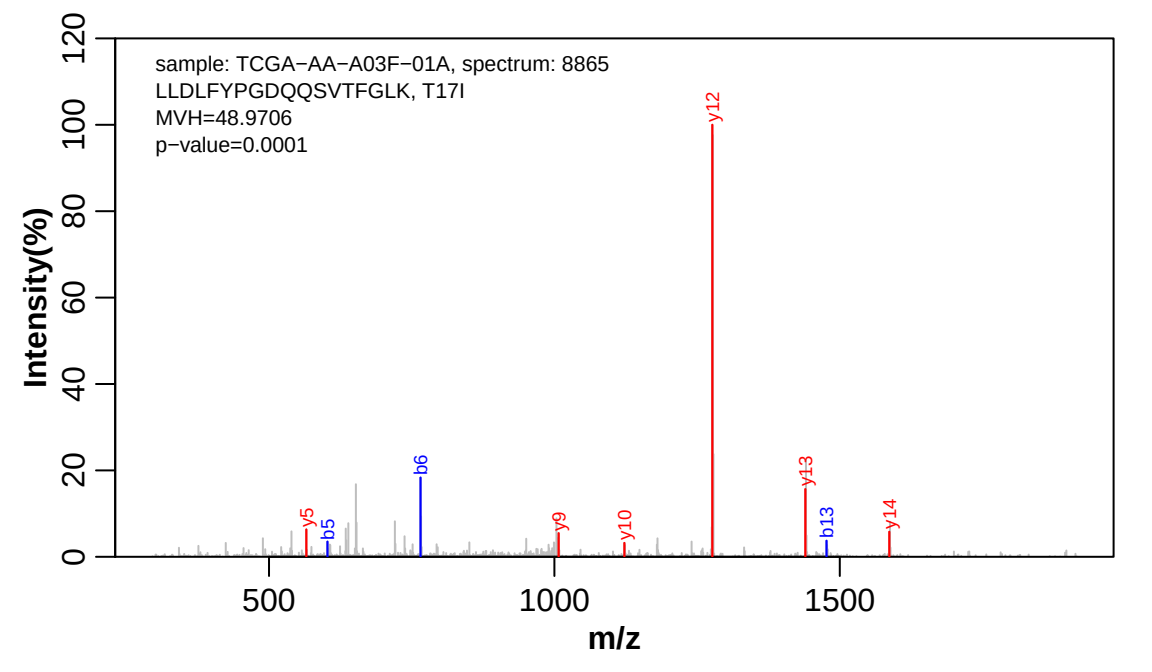

sample: TCGA−AA−A03F−01A, spectrum: 29374
GVAGSSVAVLCPYNR, G5S
MVH=50.0621
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
y8
b10
y7
b11
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b7
b8
y9
y10
b14

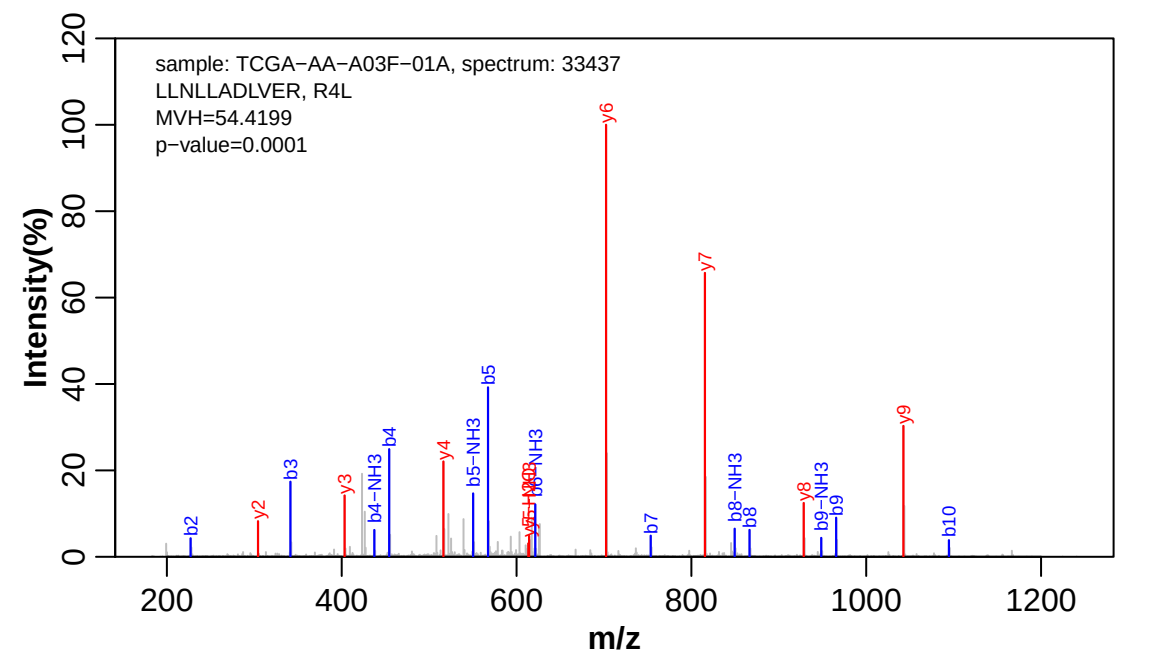

sample: TCGA−AA−A03F−01A, spectrum: 70784
KADLLNR, V5I
MVH=35.0625
p−value=0.0088
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1−NH3
y1
b3
y3
y4
y5
y6

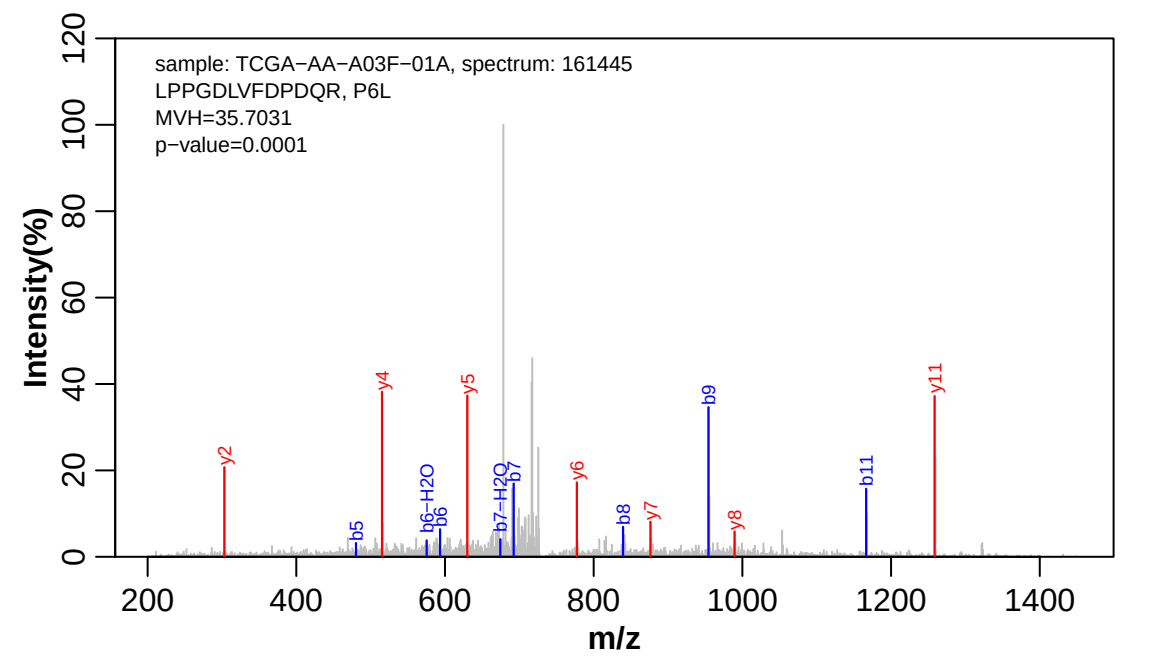

sample: TCGA−AA−A03F−01A, spectrum: 111252
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=41.3053
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b10++
b11++
b14++
b8
b21++
b21++−NH3
b10
b21++−H2O
y20++−H2O
b26++
b28++
b29++

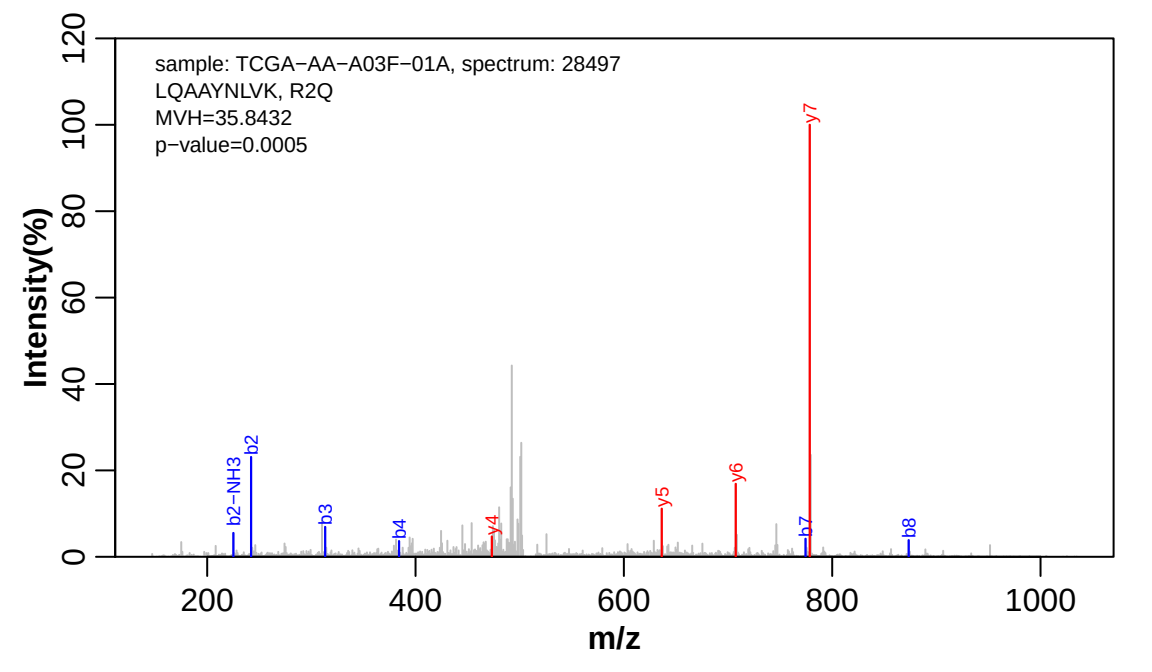

sample: TCGA−AA−A03F−01A, spectrum: 160099
LDSTDFTSTLK, G8S
MVH=45.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
y10

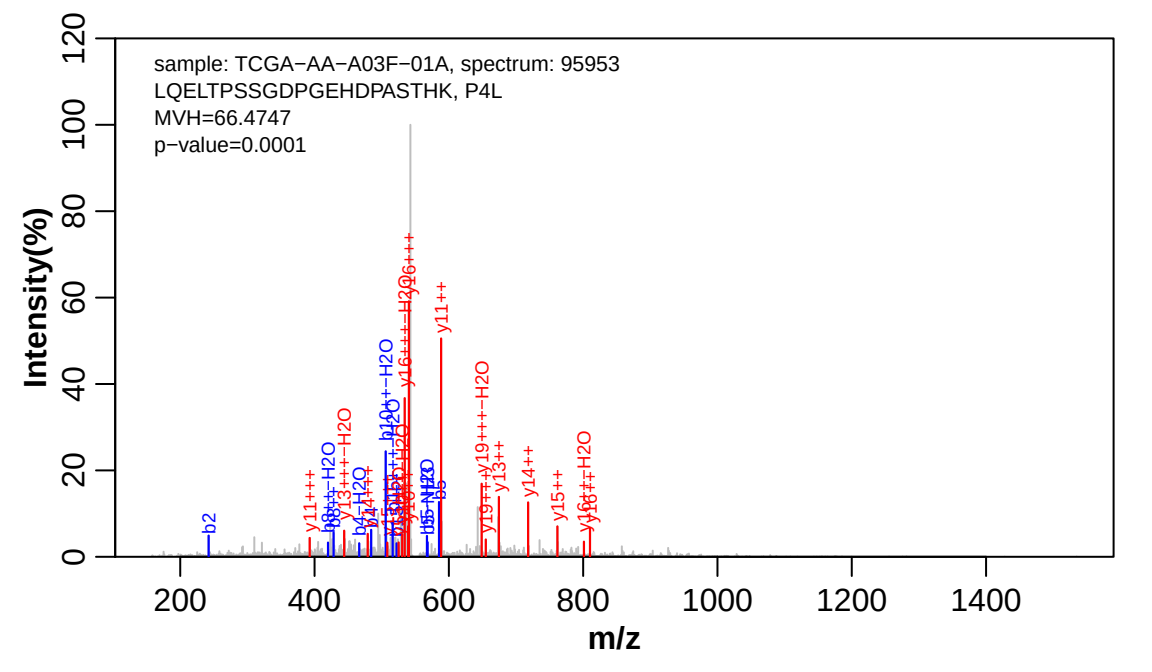

sample: TCGA−AA−A03F−01A, spectrum: 43506
LFEEDPAVGALVLTGGDK, T1I
MVH=80.9820
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
y5
b7
y8−NH3
b8−H2O
b10
y14
b11
b12
b13
y15
b14
y16
b9
y12
b4
y4
b3

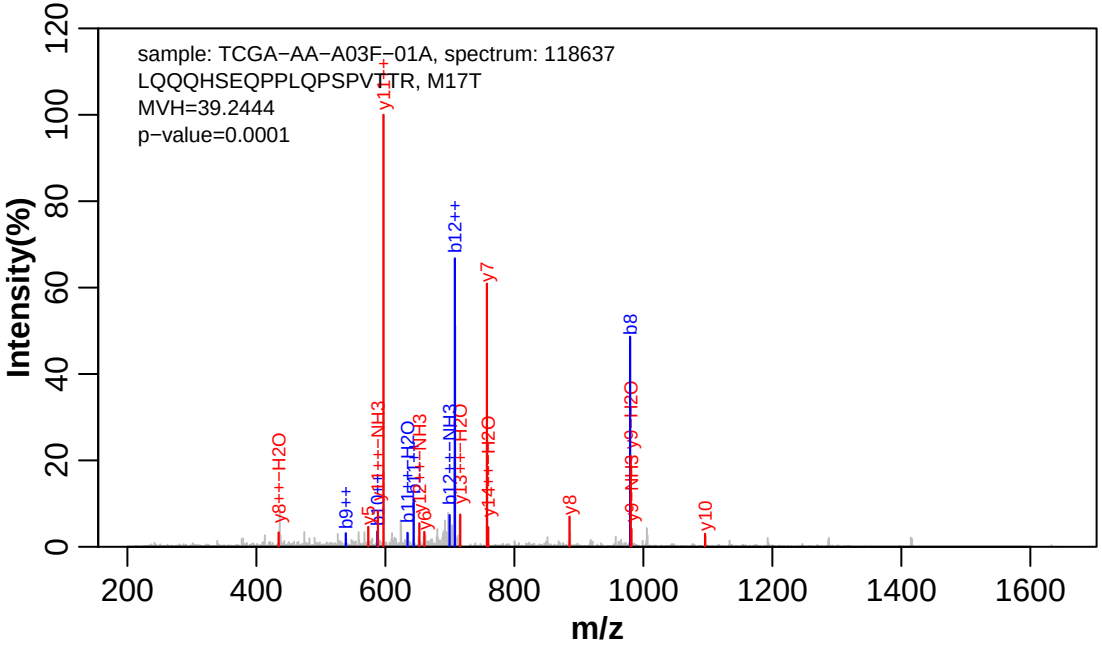

sample: TCGA−AA−A03F−01A, spectrum: 8865
LLDLFYPGDQQSVTFGLK, T17I
MVH=48.9706
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b5
b6
y9
y10
y12
y13
b13
y14

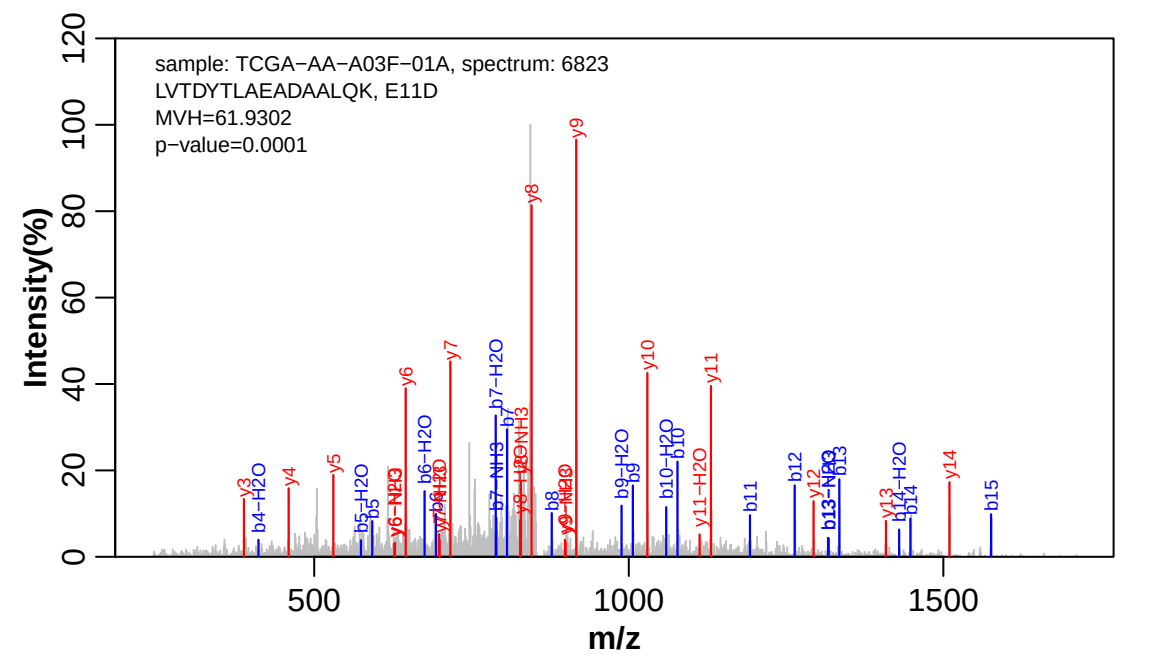

sample: TCGA−AA−A03F−01A, spectrum: 33437
LLNLLADLVER, R4L
MVH=54.4199
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

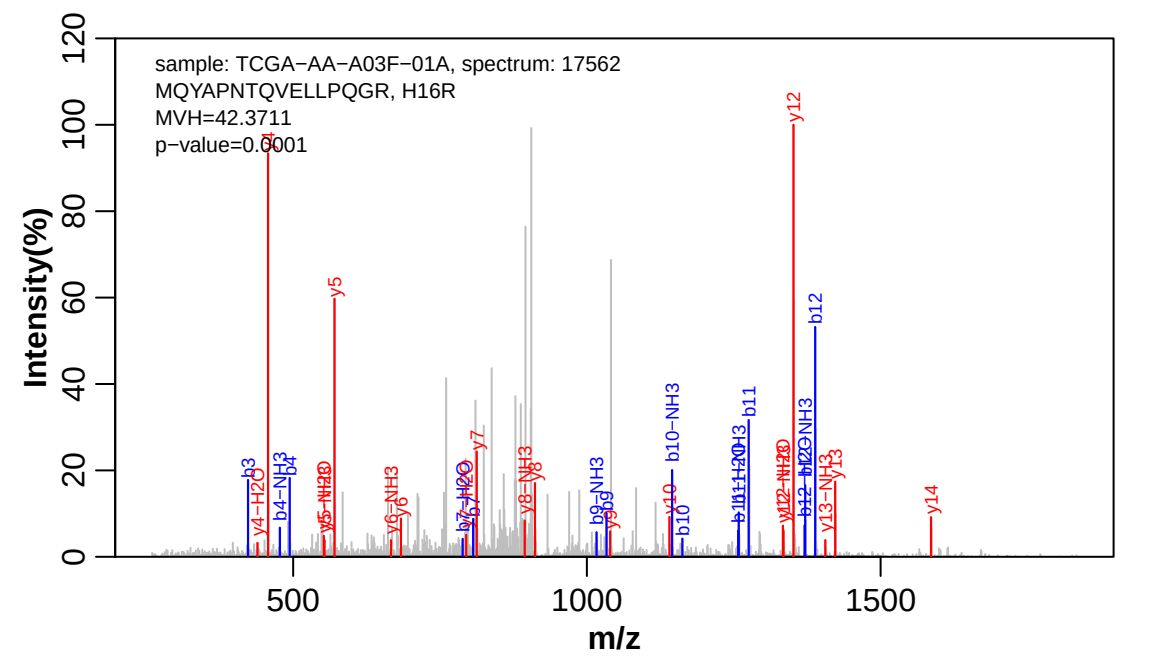

sample: TCGA−AA−A03F−01A, spectrum: 161445
LPPGDLVFDPDQR, P6L
MVH=35.7031
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y2
b5
y4
b6−H2O
b6
y5
b7−H2O
b7
y6
b8
y7
b9
y8
b11
y11

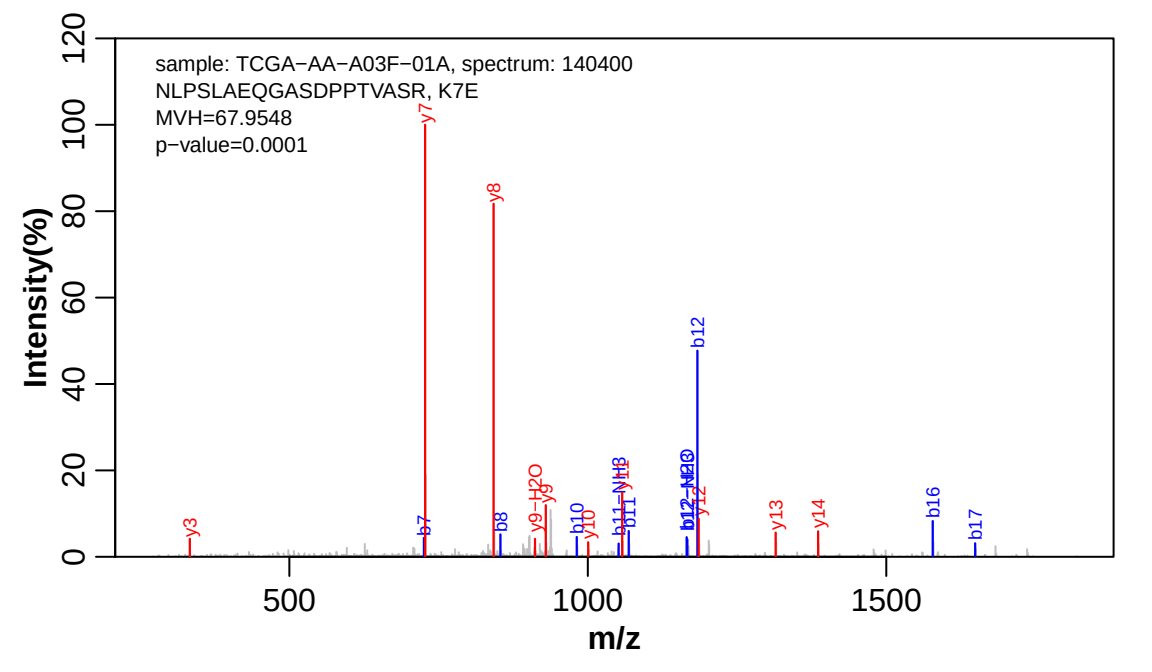

sample: TCGA−AA−A03F−01A, spectrum: 28497
LQAAYNLVK, R2Q
MVH=35.8432
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2−NH3
b2
b3
b4
y4
y5
y6
y7
b7
b8

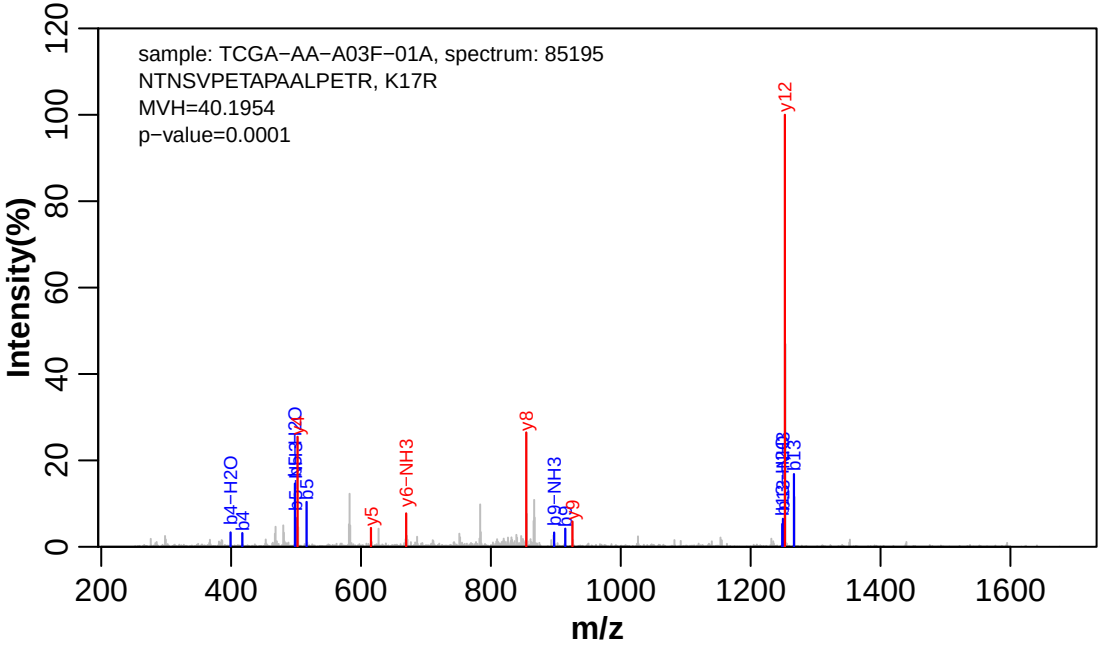

sample: TCGA−AA−A03F−01A, spectrum: 95953
LQELTPSSGDPGEHDPASTHK, P4L
MVH=66.4747
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b8+++−H2O
y13+++−H2O
b4−H2O
b4++
b10++−H2O
y16+++−H2O
y11++
b5−NH3
b5
y19++
y19+++−H2O
y13++
y14++
y15++
y16++−H2O

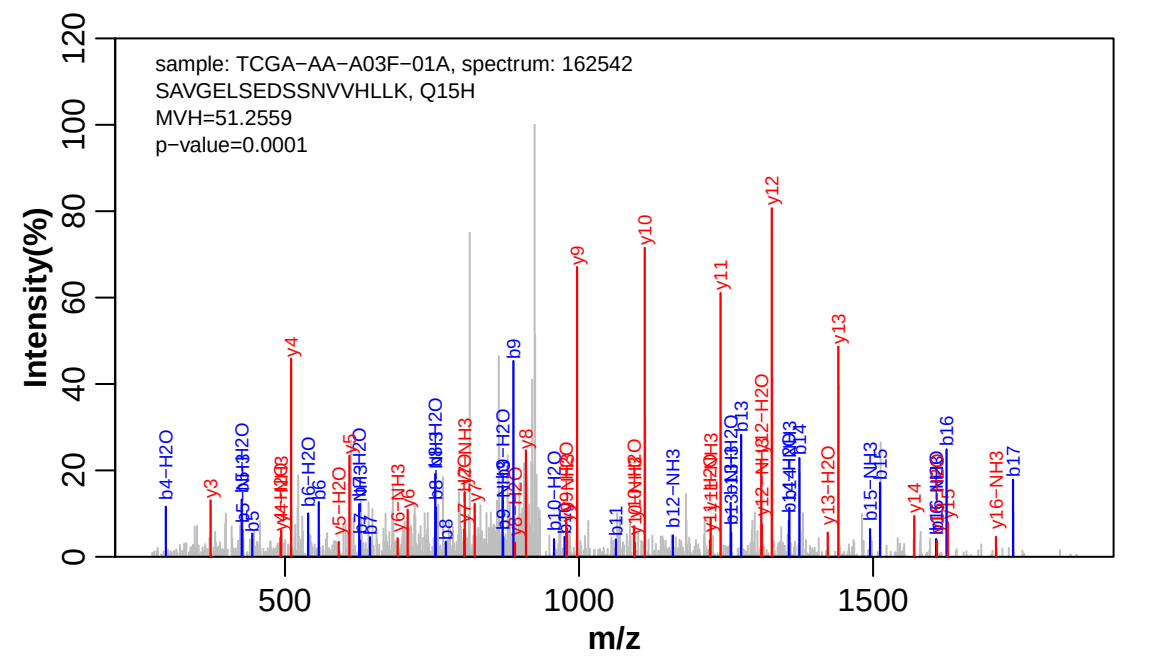

sample: TCGA−AA−A03F−01A, spectrum: 118637
LQQQHSEQPPLQPSPVTTR, M17T
MVH=39.2444
p−value=0.0001
Intensity(%)
m/z
y11++
b12++
y7
b8
y8++−H2O
b9++
y5
y9++−NH3
b11++−H2O
b11++−NH3
y6
y12++−NH3
b13++−NH3
b13++−H2O
y14++−H2O
y8
y9−NH3
y9−H2O
y10

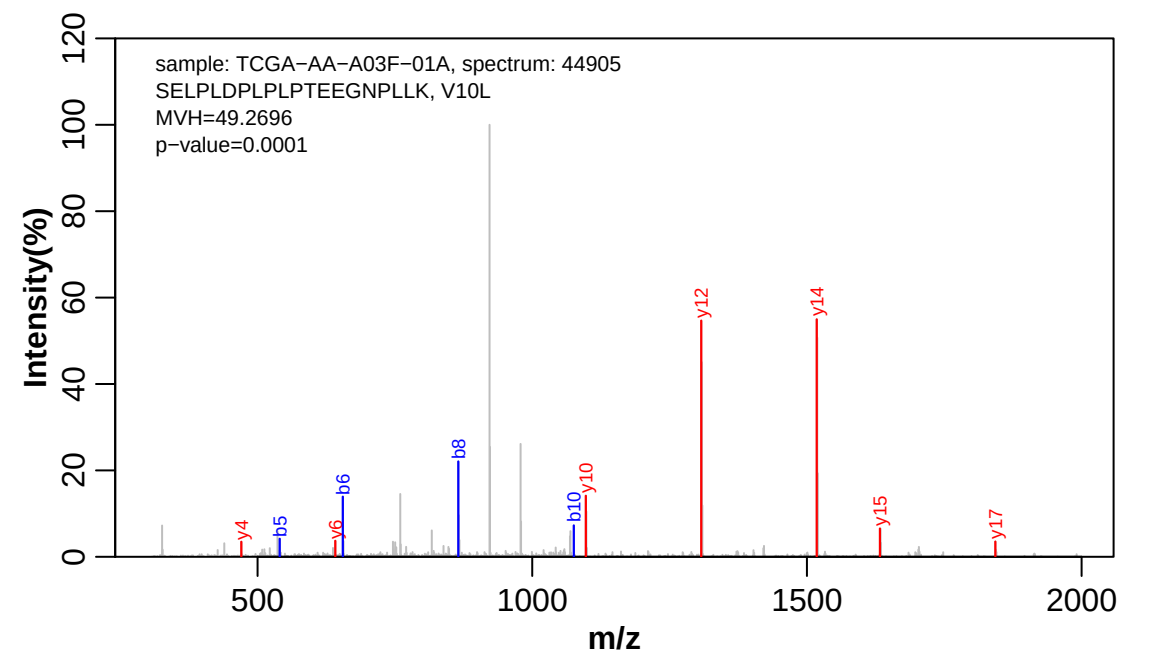

sample: TCGA−AA−A03F−01A, spectrum: 6823
LVTDYTLAEADAALQK, E11D
MVH=61.9302
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y8
y7
y6
y5
y4
y3
y10
y11
y14
b4−H2O
b5−H2O
b6−H2O
b7−NH3
b7−H2O
b9−H2O
b10−H2O
y11−H2O
b14−H2O
b15

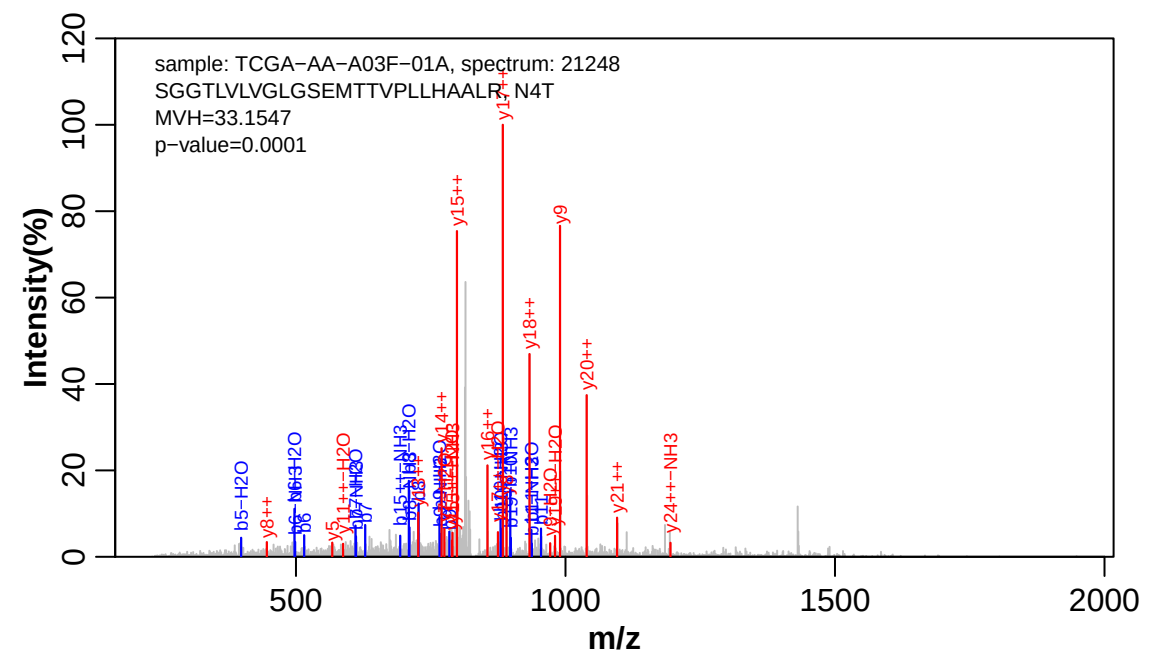

sample: TCGA−AA−A03F−01A, spectrum: 17562
MQYAPNTQVELLPQGR, H16R
MVH=42.3711
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b10−NH3
b11
y14
y13−NH3
b3
y4−H2O
b4
b4−NH3
y6
y6−NH3
y7
y8
y8−NH3
b9−NH3
y9
y10
b10
b11−H2O
b11−NH3
y12−NH3
b12−H2O
b12−NH3
y13

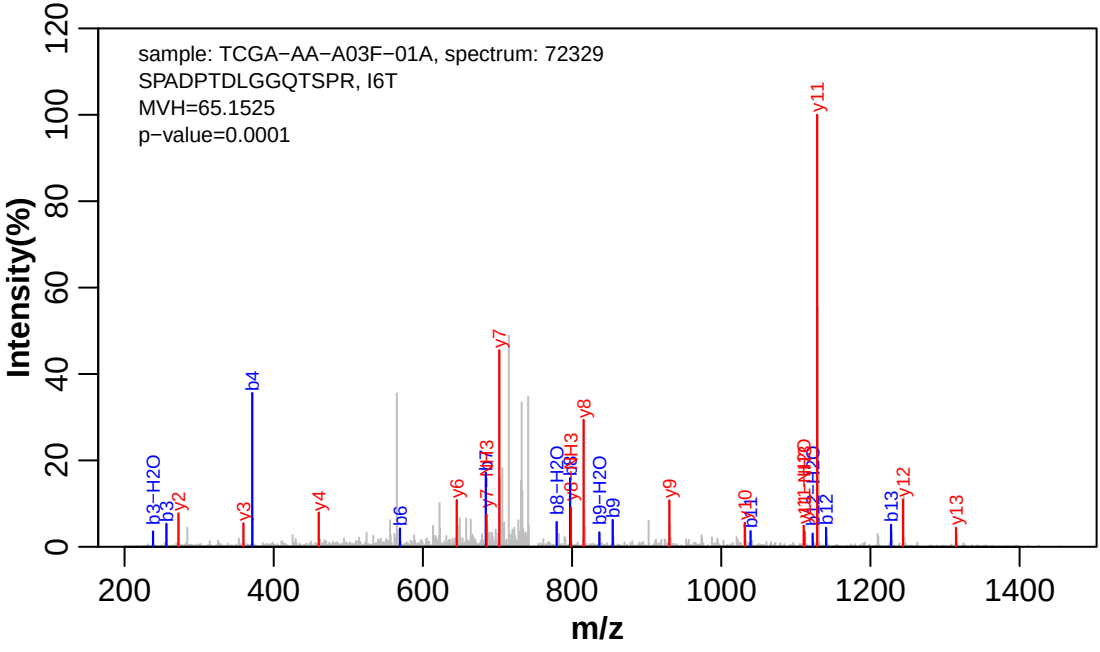

sample: TCGA−AA−A03F−01A, spectrum: 140400
NLPSLAEQGASDPPTVASR, K7E
MVH=67.9548
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y8
b12
y3
b7
b8
y9−H2O
y9
b10
y10
b11−NH3
b11
y12
y13
y14
b16
b17

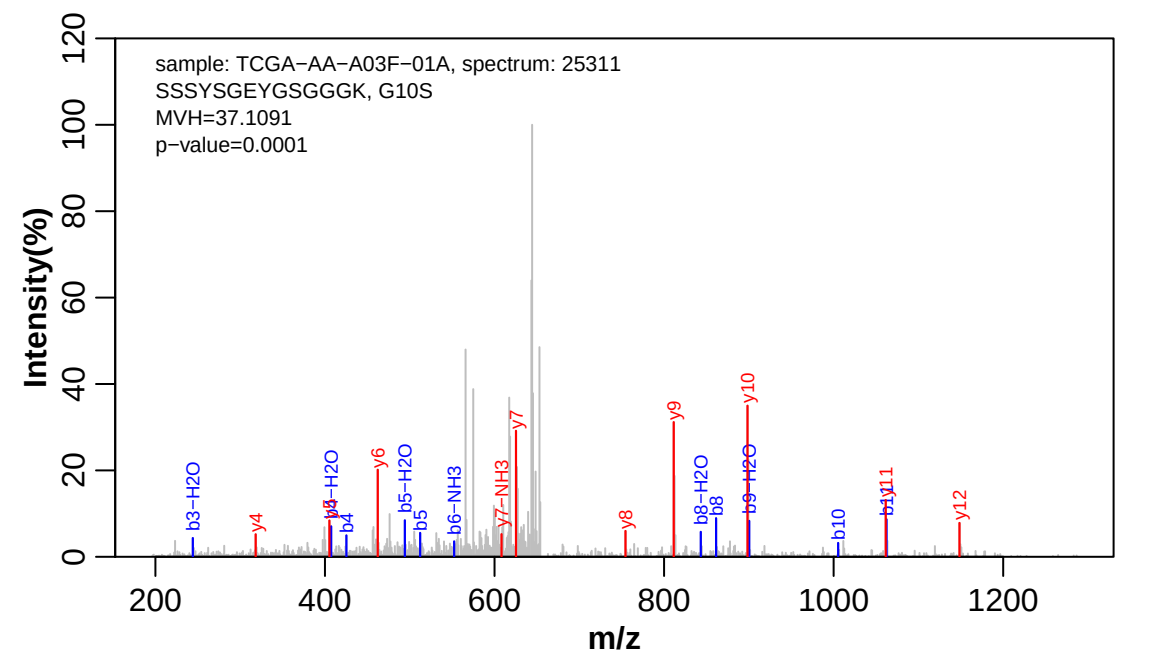

sample: TCGA−AA−A03F−01A, spectrum: 85195
NTNSVPETAPAALPETR, K17R
MVH=40.1954
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4−H2O
b4
b5−NH3
b5−H2O
b5
y5
y6−NH3
y8
b8−NH3
b8
y9
y12
b12−H2O
b12−NH3
b13

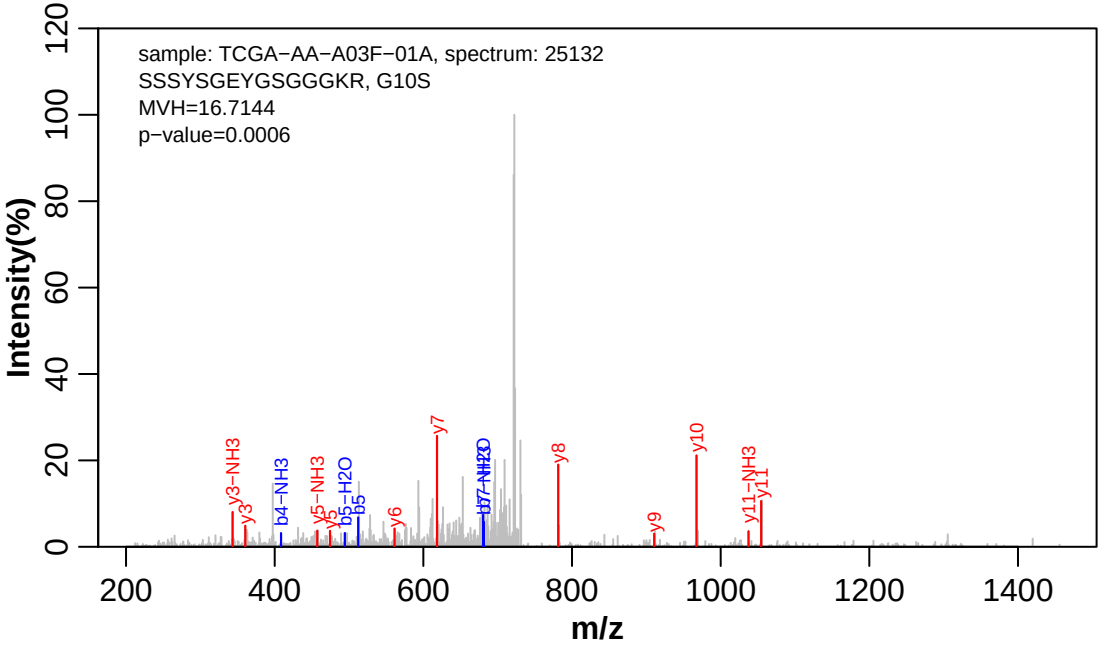

sample: TCGA−AA−A03F−01A, spectrum: 162542
SAVGELSEDSSNVVHLLK, Q15H
MVH=51.2559
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−H2O
y3
y4
b6−H2O
y5−H2O
y5−NH3
y6
b9
y8
b10−H2O
y9
y10
b11
b12−NH3
y11
b13
y12
y12−H2O
b14
y13
y13−H2O
b15−NH3
y14
b16
y16−NH3
b17

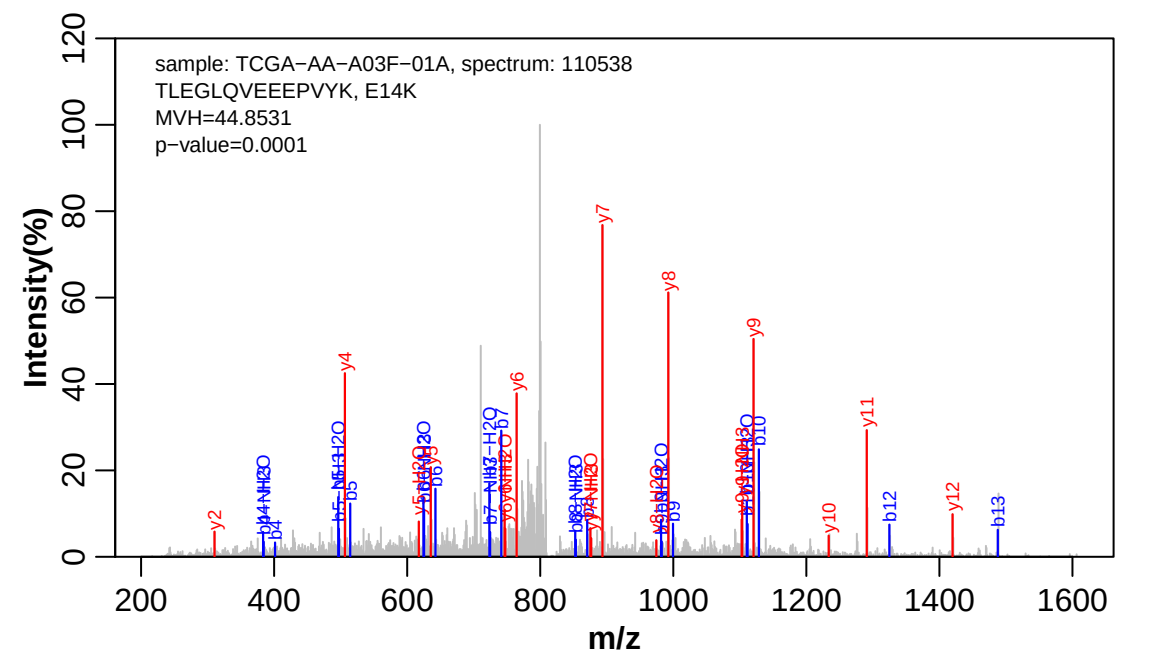

sample: TCGA−AA−A03F−01A, spectrum: 44905
SELPLDPLPLPTEEGNPLLK, V10L
MVH=49.2696
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
y6
b6
b8
b10
y10
y12
y14
y15
y17

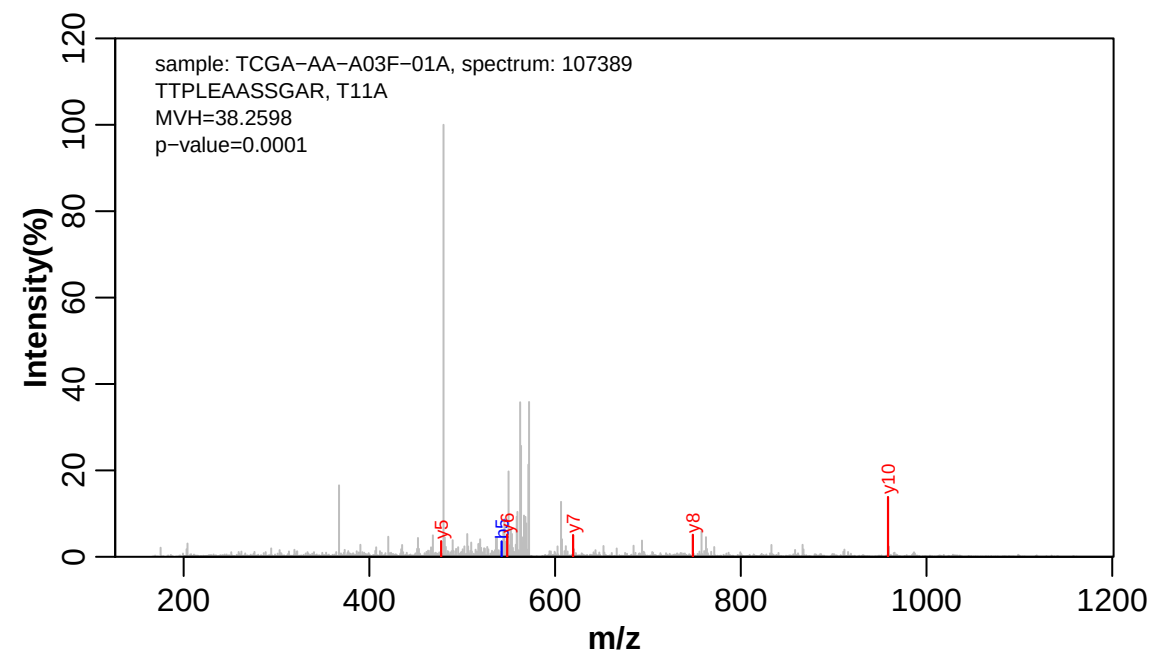

sample: TCGA−AA−A03F−01A, spectrum: 21248
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=33.1547
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y14++
y15++
y9
y18++
y20++
y21++
y24++−NH3
b5−H2O
y8++

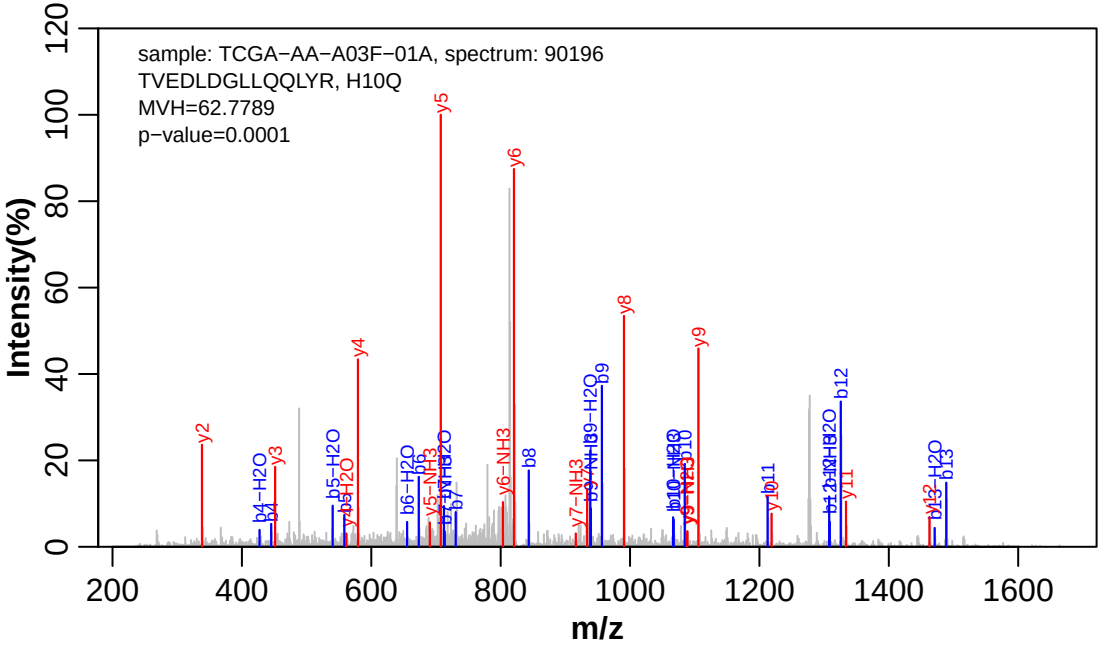

sample: TCGA−AA−A03F−01A, spectrum: 72329
SPADPTDLGGQTSPR, I6T
MVH=65.1525
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y2
y3
b4
y4
b6
y6
y7−NH3
y7
b8−H2O
y8−NH3
y8
b9−H2O
b9
y9
b10
y10−NH3
y10−H2O
y10
b12
b13
y12
y13
y11

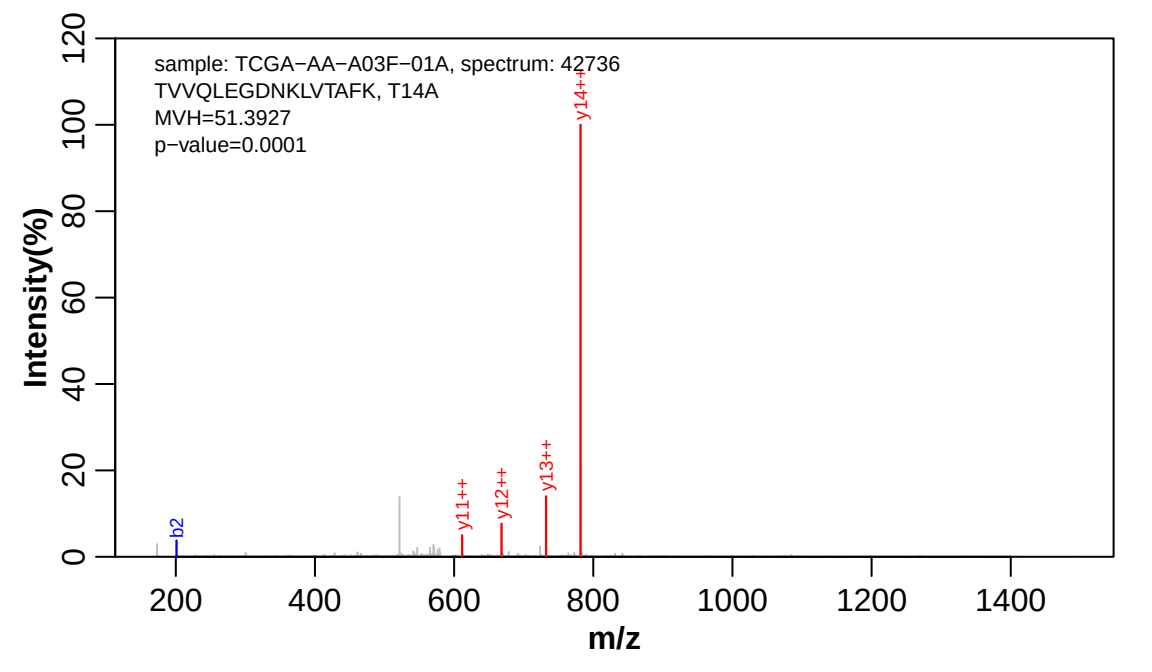

sample: TCGA−AA−A03F−01A, spectrum: 25311
SSSYSGEYGSGGGK, G10S
MVH=37.1091
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4−H2O
b4
y6
b5−H2O
b5
b6−NH3
y7−NH3
y7
y8
y9
b8−H2O
b8
y10
b9−H2O
b10
b11
y11
y12

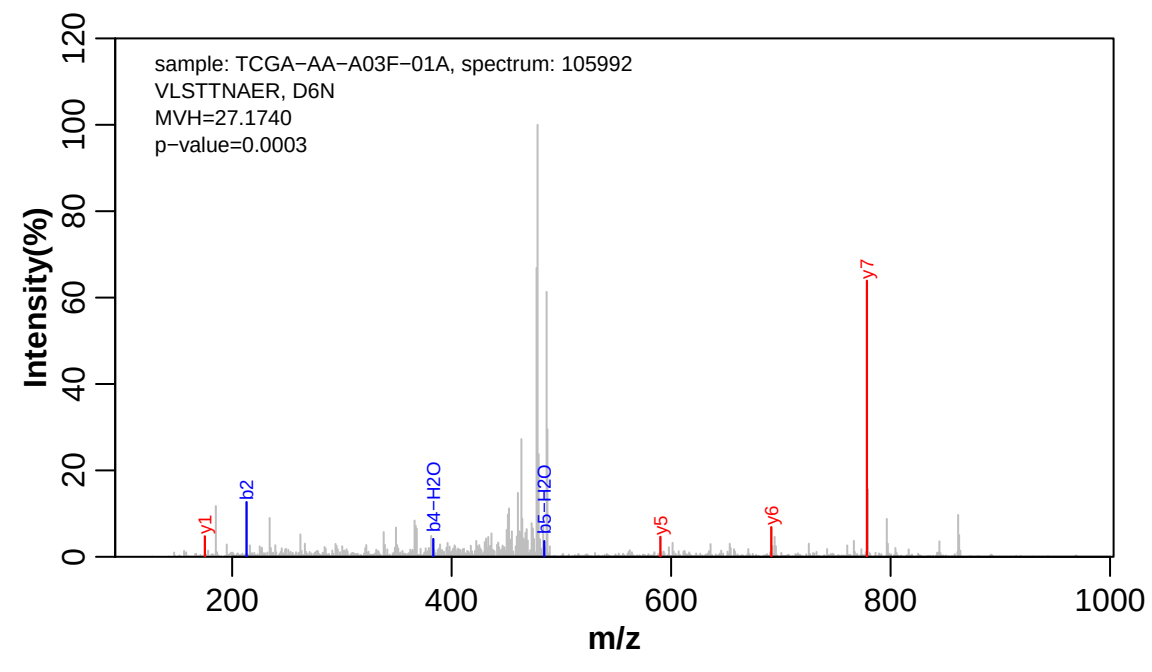

sample: TCGA−AA−A03F−01A, spectrum: 25132
SSSYSGEYGSGGGKR, G10S
MVH=16.7144
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y3−NH3
y3
b4−NH3
y5−NH3
y5
b5−H2O
b5
y6
y7
y8
y9
y10
y11−NH3
y11

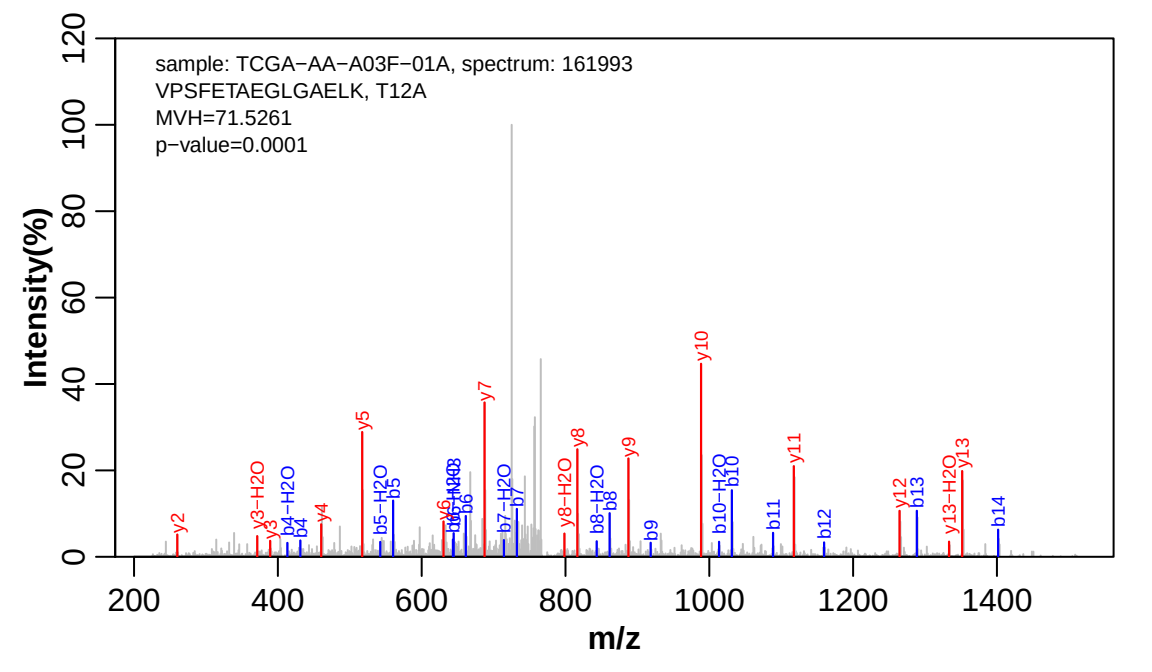

sample: TCGA−AA−A03F−01A, spectrum: 110538
TLEGLQVEEEPVYK, E14K
MVH=44.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y4
y6
y7
y8
y9
y10
y11
y12
b12
b13

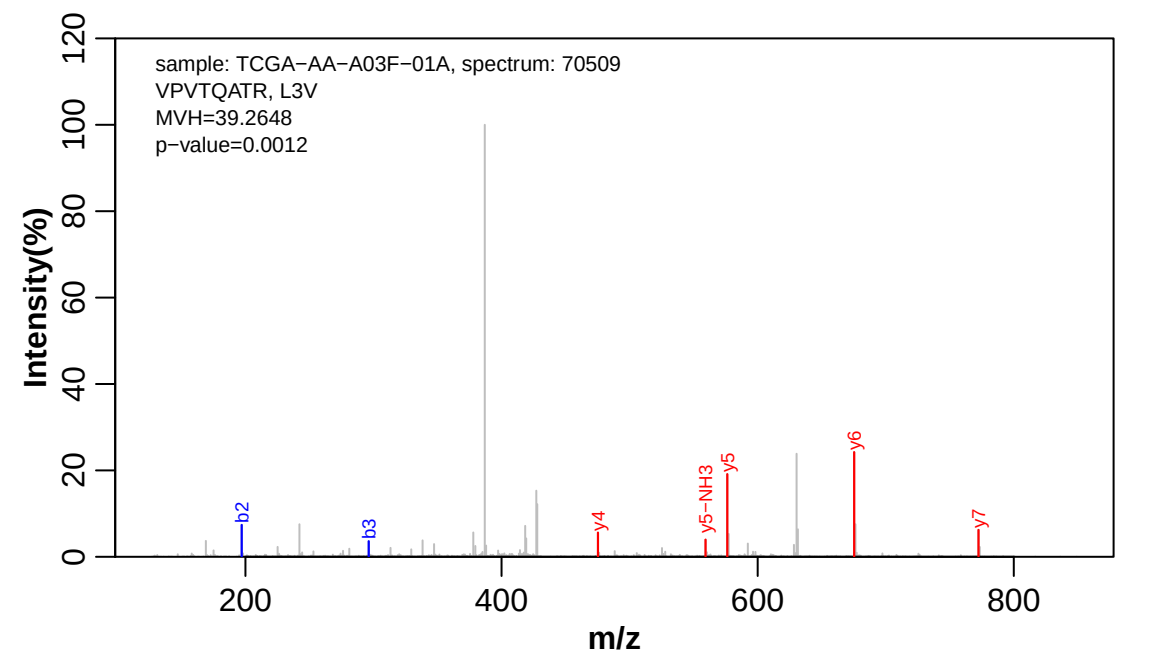

sample: TCGA−AA−A03F−01A, spectrum: 107389
TTPLEAASSGAR, T11A
MVH=38.2598
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y5
b5
y6
y7
y8
y10

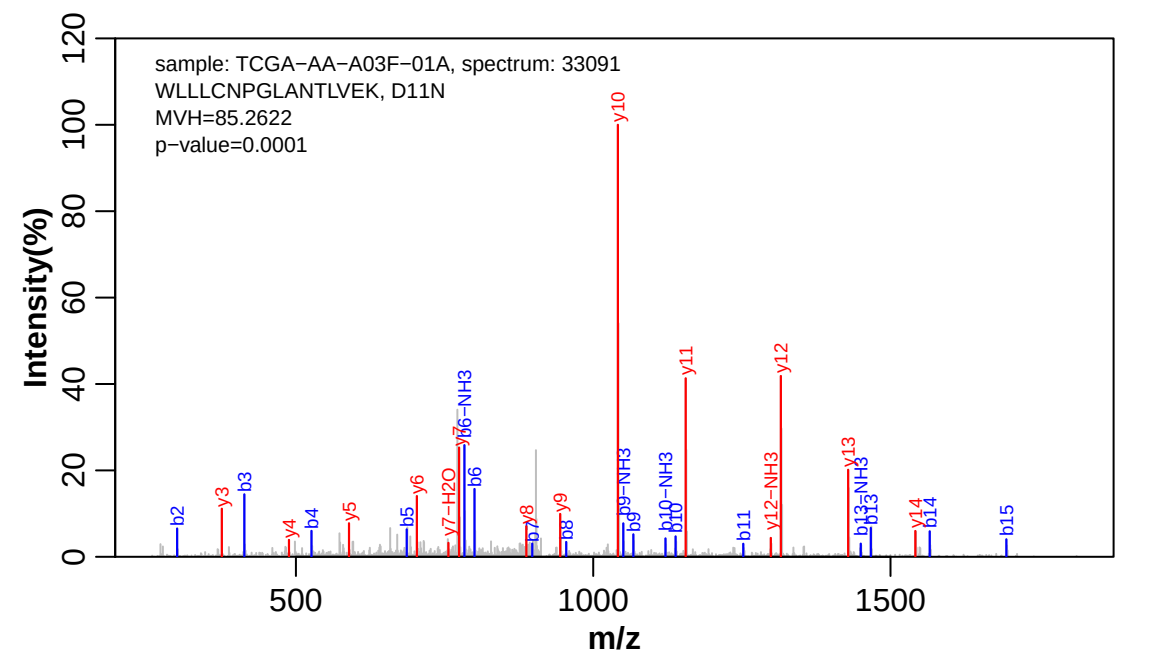

sample: TCGA−AA−A03F−01A, spectrum: 90196
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
y9
y4
y2
y3
b8
b12
b9
b5−H2O
b6−H2O
y6−NH3
y7−NH3
b4−H2O
y11
y10
b13
b12−H2O
b9−H2O
b10−H2O
b13−H2O

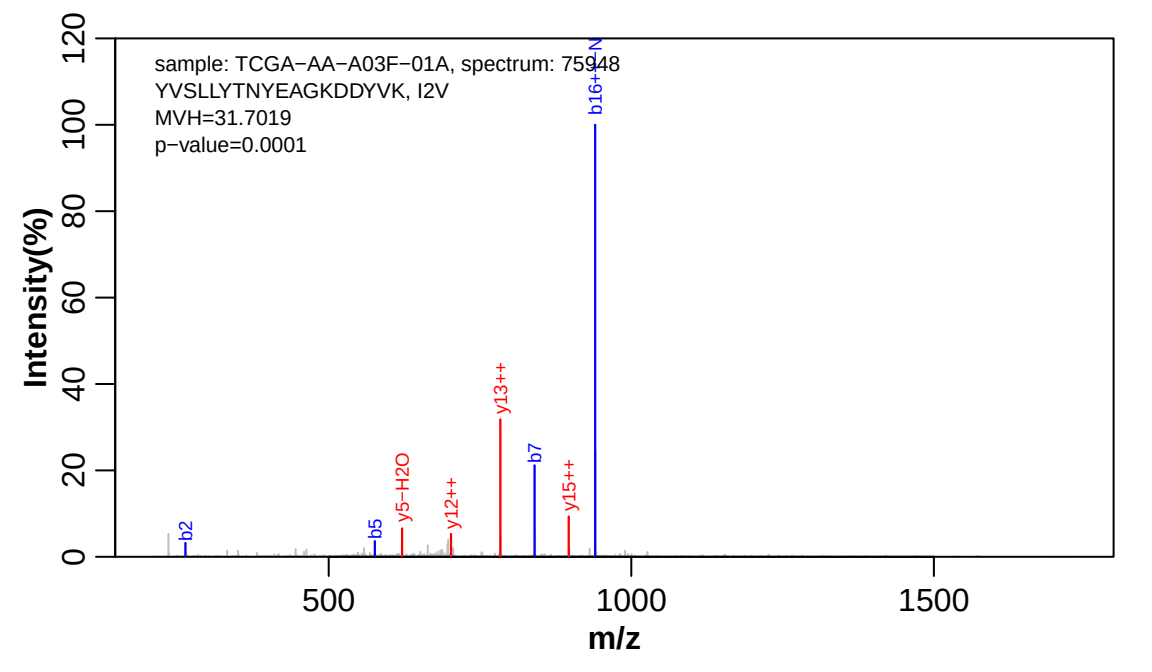

sample: TCGA−AA−A03F−01A, spectrum: 42736
TVVQLEGDNKLVTAFK, T14A
MVH=51.3927
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

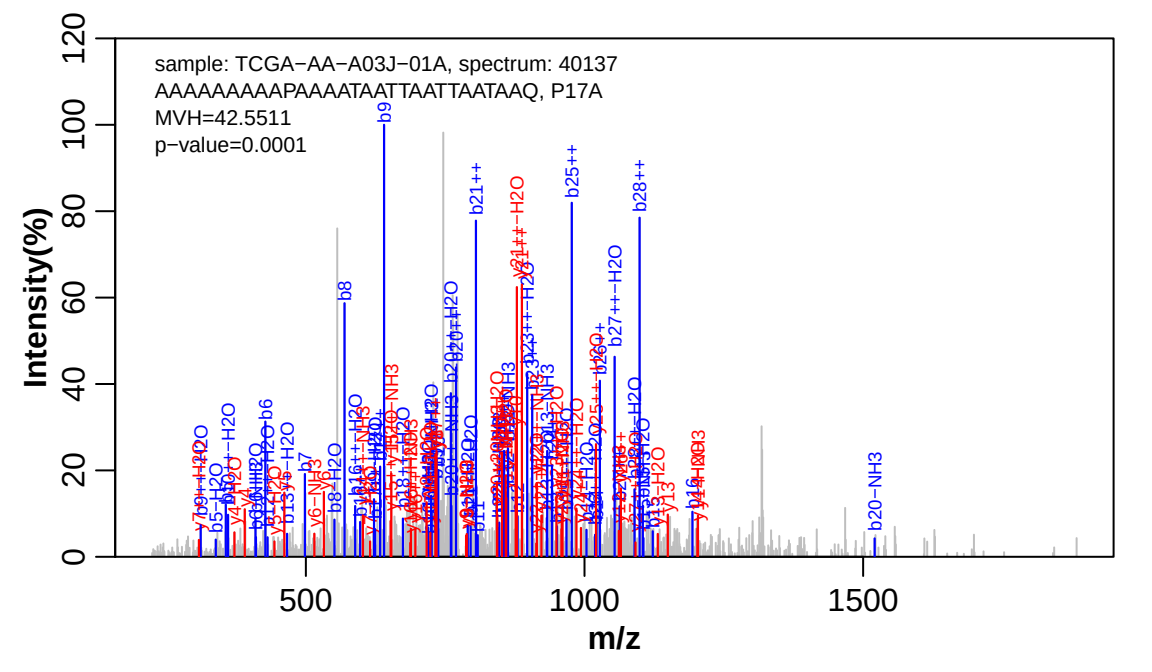

sample: TCGA−AA−A03F−01A, spectrum: 105992
VLSTTNAER, D6N
MVH=27.1740
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b4−H2O
b5−H2O
y5
y6
y7

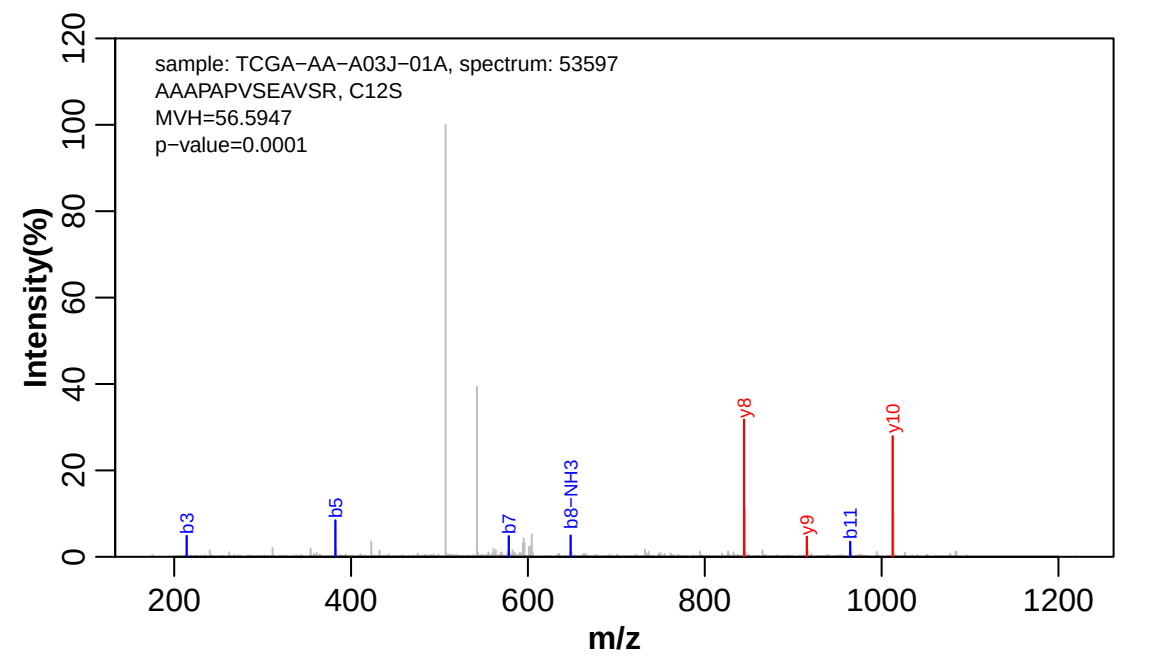

sample: TCGA−AA−A03F−01A, spectrum: 161993
VPSFETAEGLGAELK, T12A
MVH=71.5261
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3−H2O
y3
b4−H2O
b4
y4
y5
b5−H2O
b5
y6
b6
y7
b7−H2O
b7
y8−H2O
y8
b8−H2O
b8
y9
b9
y10
b10−H2O
b10
b11
y11
b12
y12
b13
y13−H2O
y13
b14

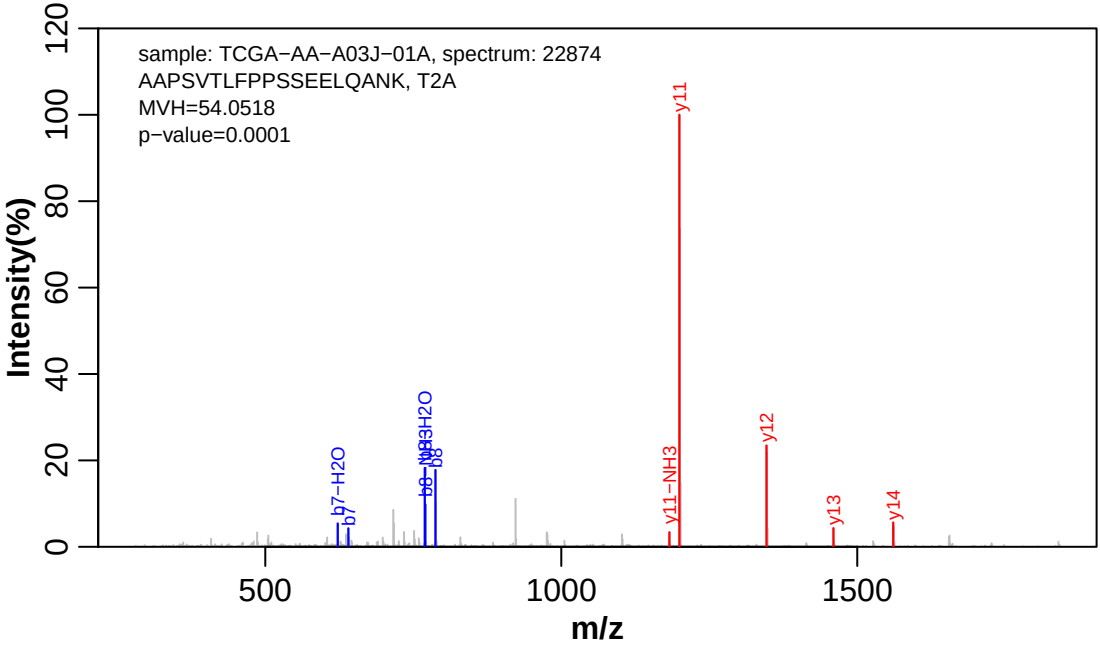

sample: TCGA−AA−A03F−01A, spectrum: 70509
VPVTQATR, L3V
MVH=39.2648
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5−NH3
y5
y6
y7

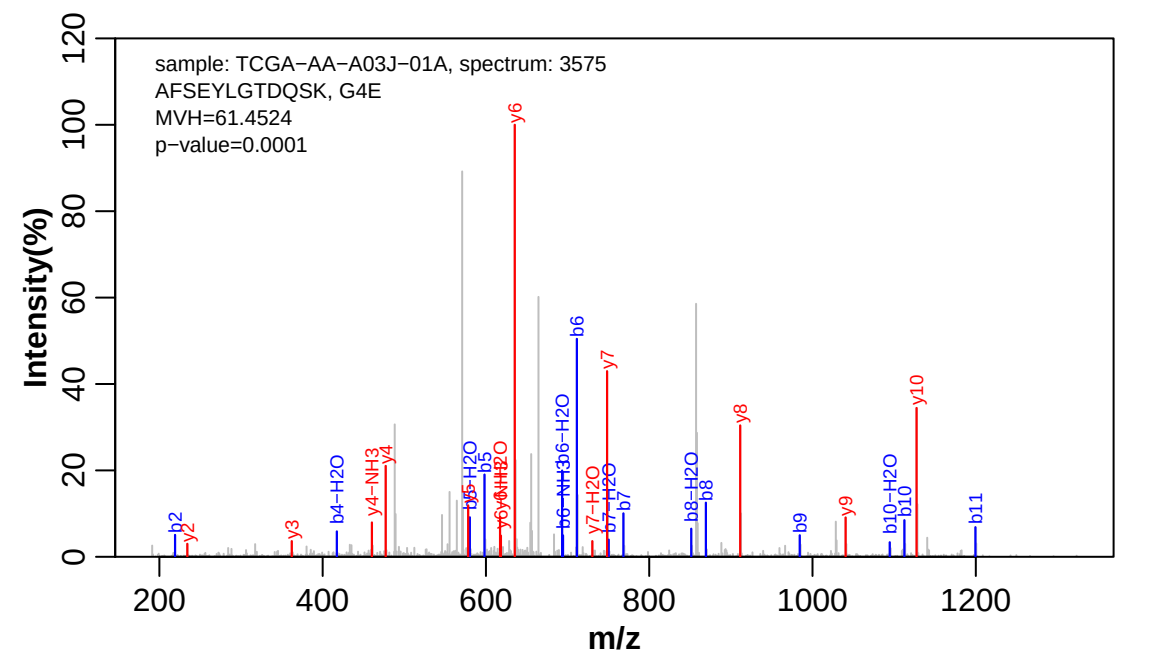

sample: TCGA−AA−A03F−01A, spectrum: 33091
WLLLCNPGLANTLVEK, D11N
MVH=85.2622
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
y4
b4
y5
y6
b5
y7−H2O
y6−NH3
b6
b7
y8
y9
b8
y10
b9
b9−NH3
b10
b10−NH3
y11
b11
y12
y12−NH3
y13
b13
b13−NH3
y14
b14
b15

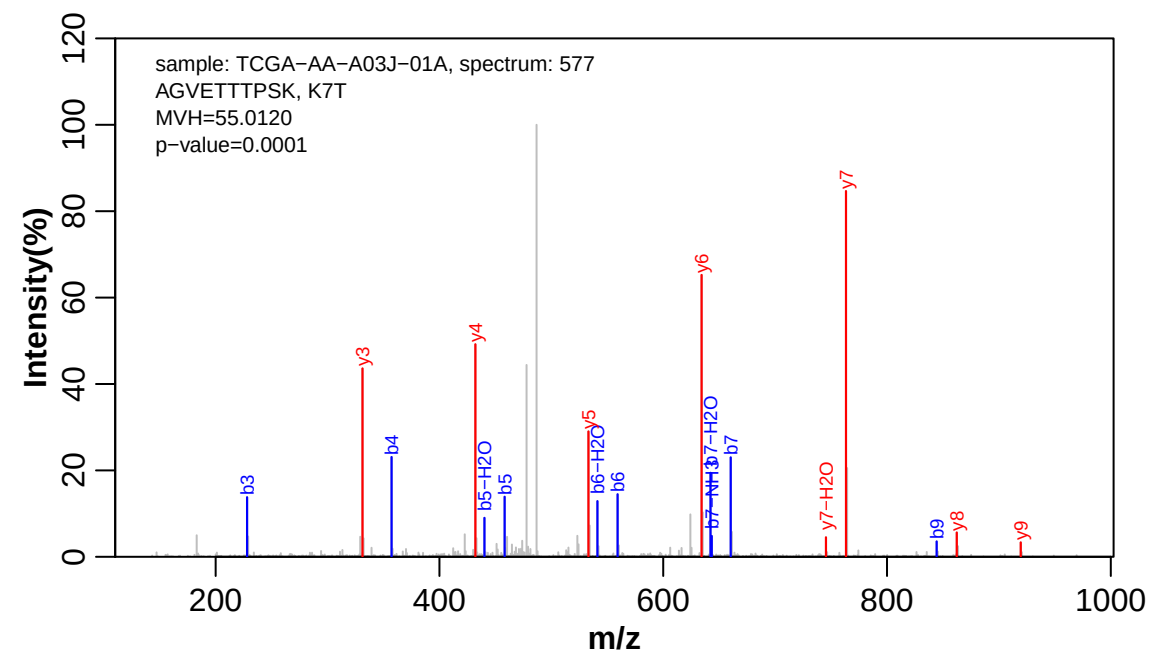

sample: TCGA−AA−A03F−01A, spectrum: 75948
YVSLLYTNYEAGKDDYVK, I2V
MVH=31.7019
p−value=0.0001
b16+-N
y13++
b7
y15++
y5−H2O
y12++
b5
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

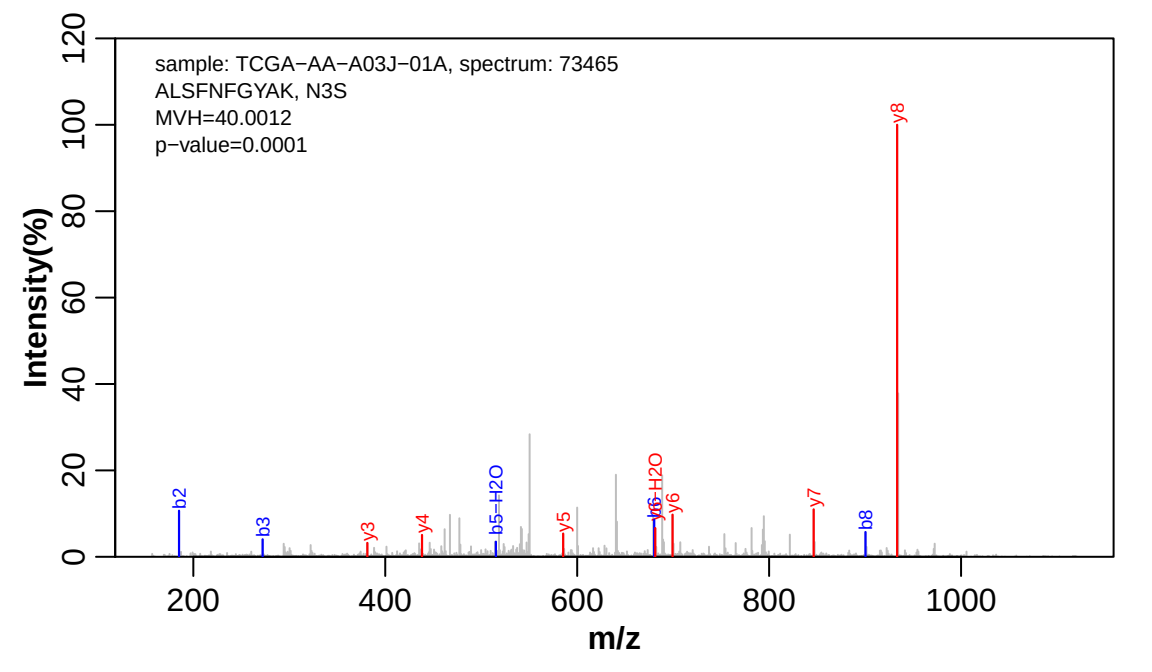

sample: TCGA−AA−A03J−01A, spectrum: 40137
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=42.5511
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b8
b21++
b25++
b28++
b20−NH3

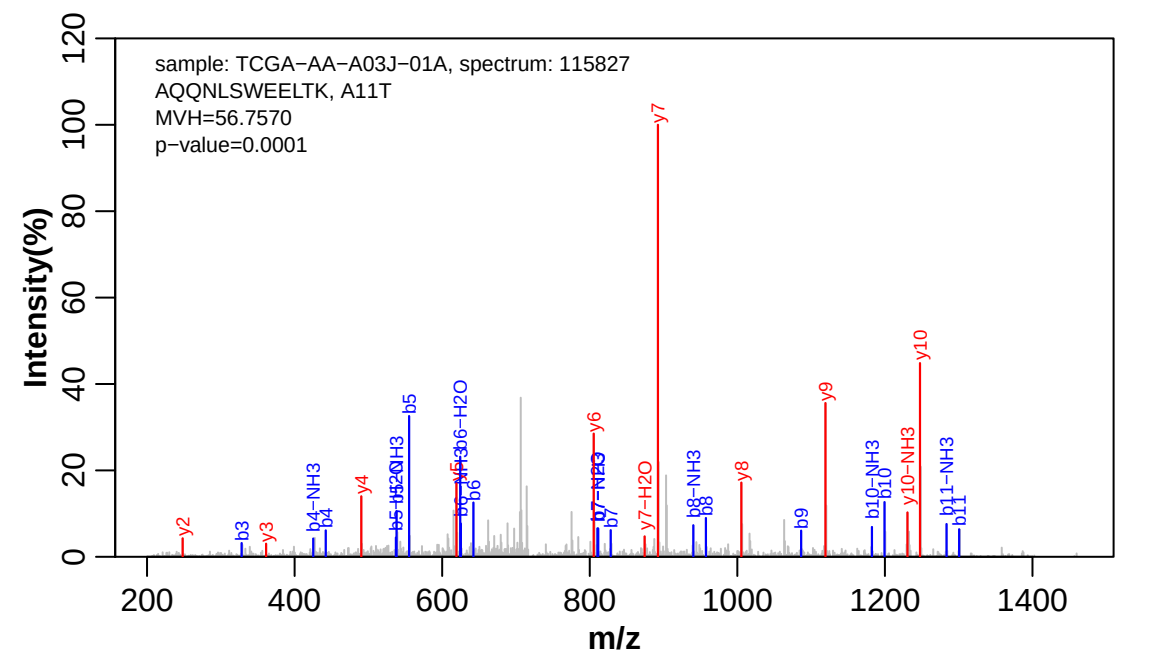

sample: TCGA−AA−A03J−01A, spectrum: 53597
AAAPAPVSEAVSR, C12S
MVH=56.5947
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b5
b7
b8−NH3
y8
y9
b11
y10

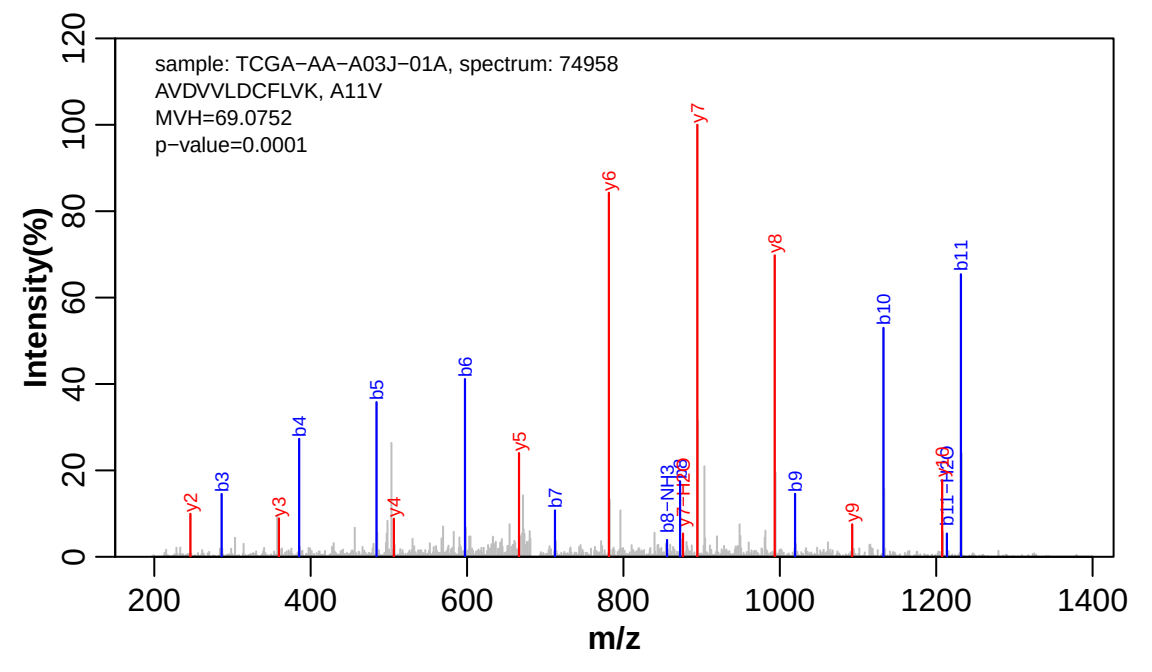

sample: TCGA−AA−A03J−01A, spectrum: 22874
AAPSVTLFPPSSEELQANK, T2A
MVH=54.0518
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y11−NH3
y12
y13
y14
b7−H2O
b8

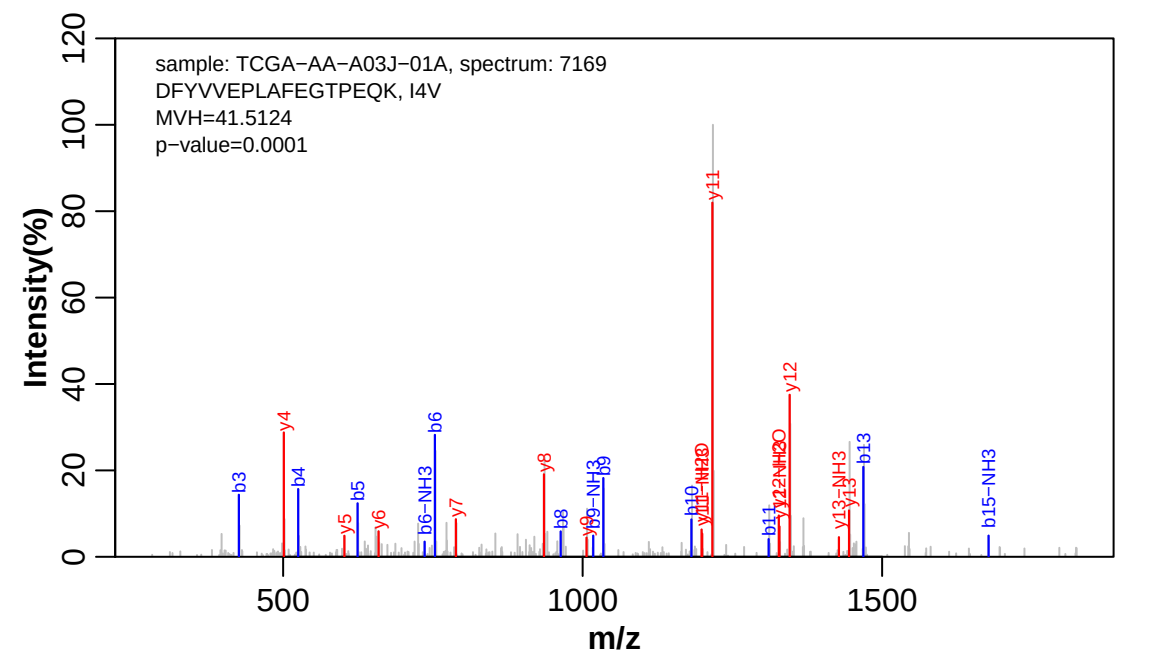

sample: TCGA−AA−A03J−01A, spectrum: 3575
AFSEYLGTDQSK, G4E
MVH=61.4524
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b4−H2O
y4−NH3
y4
b5−H2O
b5
y6−NH3
y6−H2O
b6
b6−NH3
b6−H2O
y7
y7−H2O
b7−H2O
b7
b8−H2O
b8
y8
b9
y9
b10−H2O
b10
y10
b11

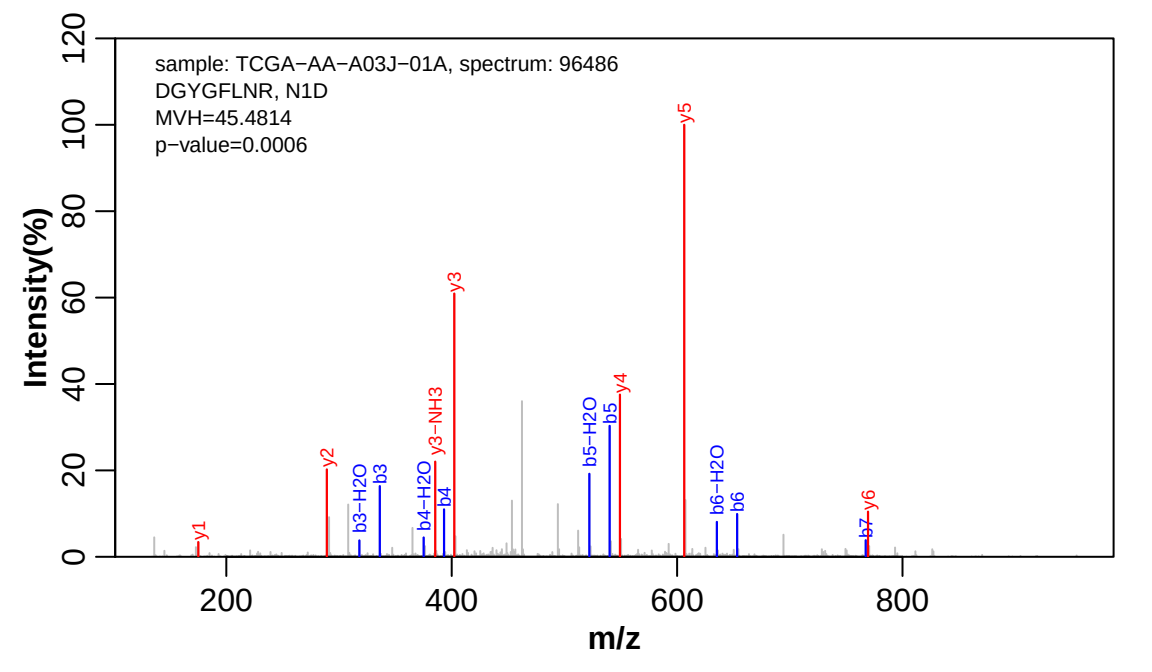

sample: TCGA−AA−A03J−01A, spectrum: 577
AGVETTTPSK, K7T
MVH=55.0120
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

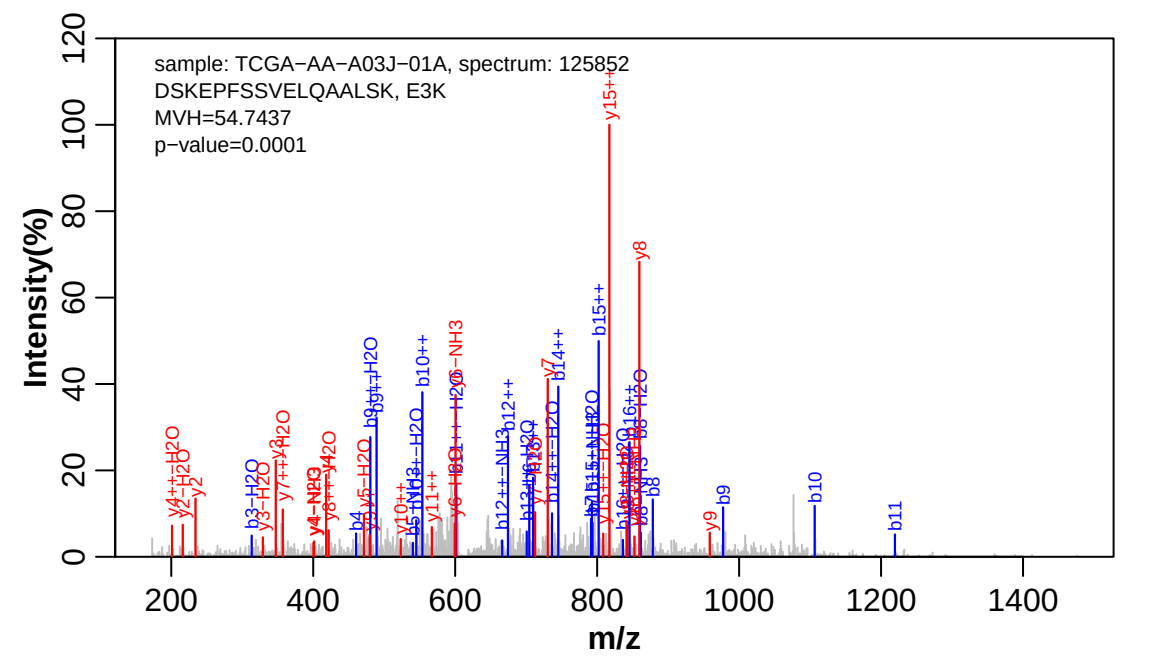

sample: TCGA−AA−A03J−01A, spectrum: 73465
ALSFNFGYAK, N3S
MVH=40.0012
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y3
y4
b5−H2O
y5
y6−H2O
y6
y7
b8
y8

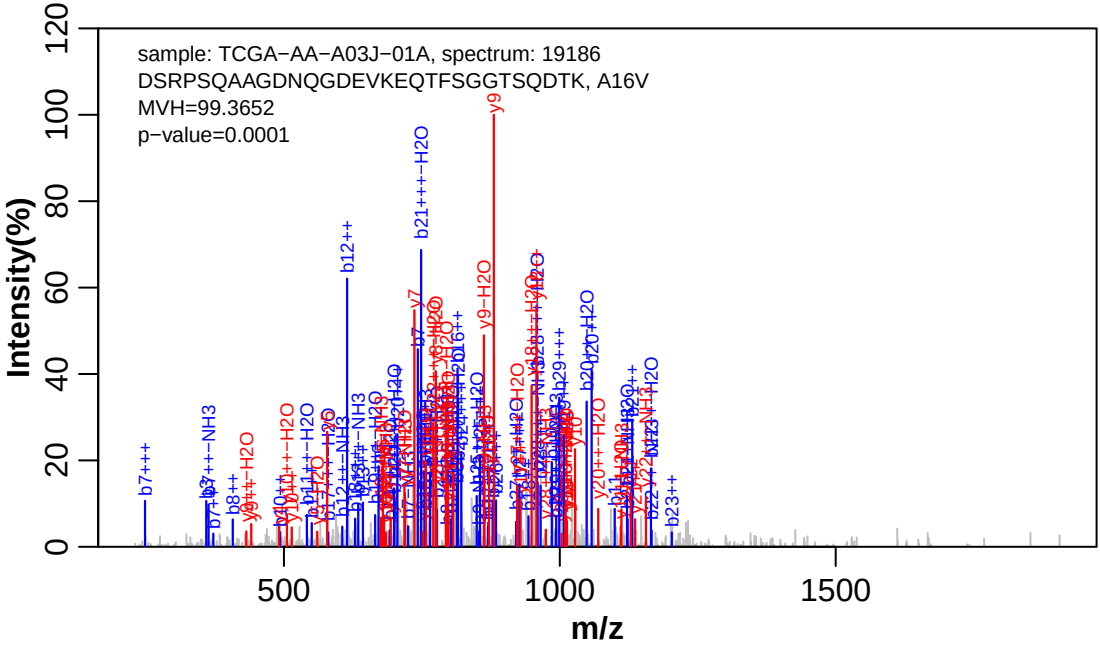

sample: TCGA−AA−A03J−01A, spectrum: 115827
AQQNLSWEELTK, A11T
MVH=56.7570
p−value=0.0001
Intensity(%)
m/z
y7
y10
y9
y6
y8
y4
y2
y3
b3
b4
b4−NH3
b5
b5−H2O
b5−NH3
b6−H2O
b6
b7
b7−NH3
y7−H2O
b8−NH3
b8
b9
b10−NH3
b10
y10−NH3
b11−NH3
b11

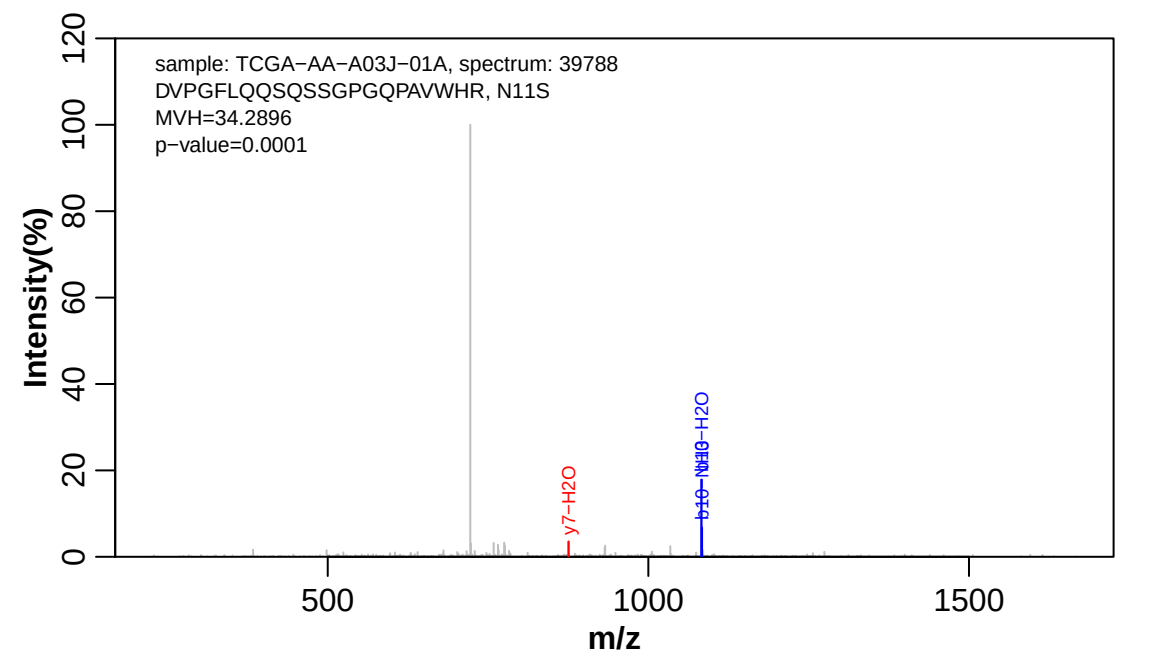

sample: TCGA−AA−A03J−01A, spectrum: 74958
AVDVVLDCFLVK, A11V
MVH=69.0752
p−value=0.0001
Intensity(%)
m/z
y2
b3
y3
b4
b5
y4
b6
y5
b7
y6
b8−NH3
y7−H2O
y7
y8
b9
y9
b10
b11
y10
b11−H2O

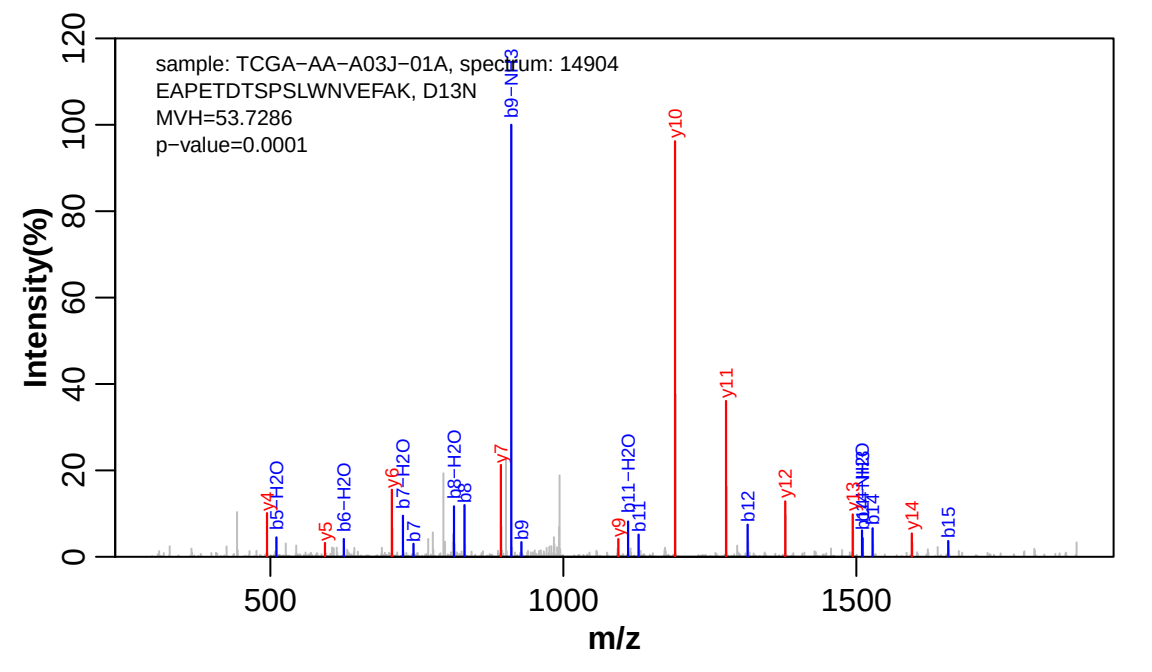

sample: TCGA−AA−A03J−01A, spectrum: 7169
DFYVVEPLAFEGTPEQK, I4V
MVH=41.5124
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6
b6−NH3
y7
y8
b8
y9
b9
b9−NH3
b10
y11
b11
y12
y13−NH3
y13
b13
b15−NH3

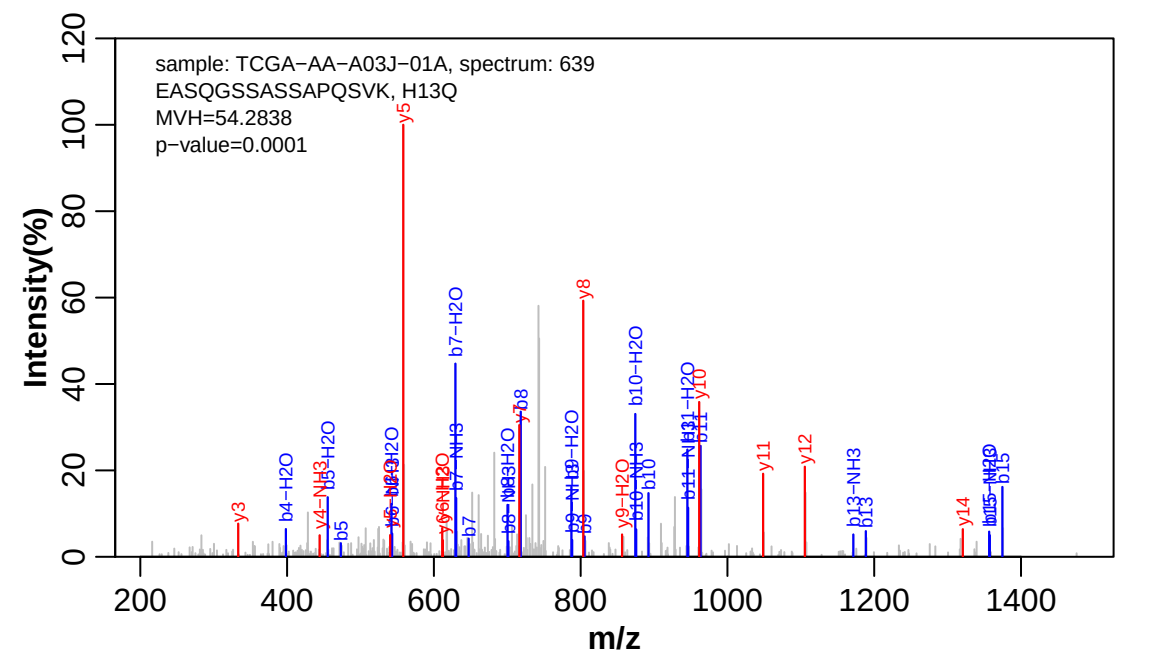

sample: TCGA−AA−A03J−01A, spectrum: 96486
DGYGFLNR, N1D
MVH=45.4814
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

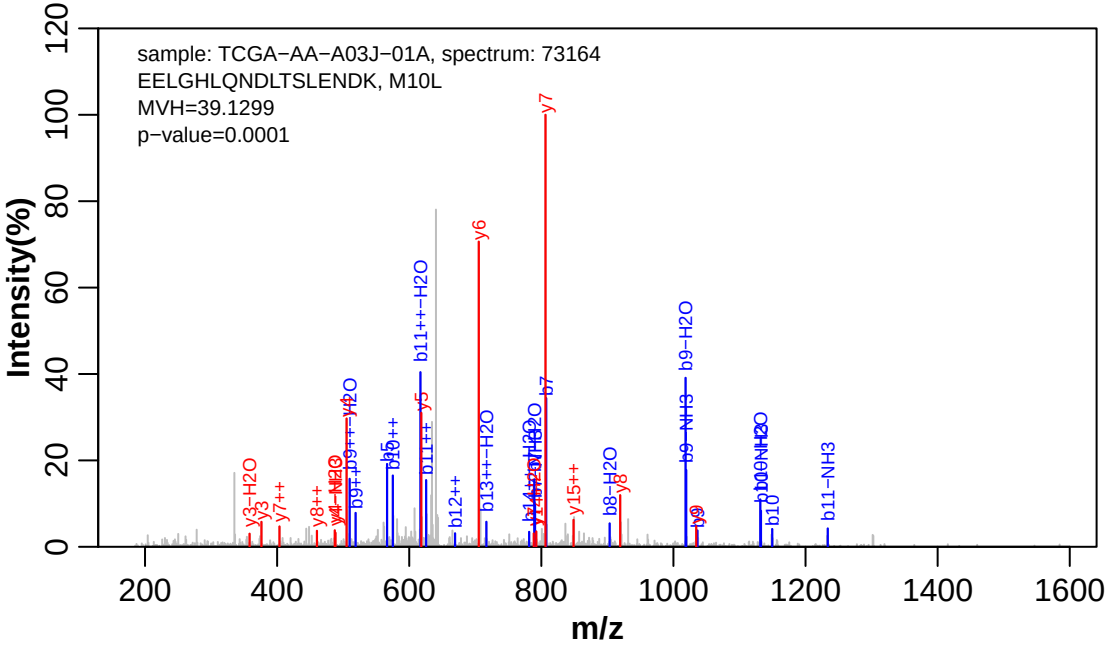

sample: TCGA−AA−A03J−01A, spectrum: 125852
DSKEPFSSVELQAALSK, E3K
MVH=54.7437
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y15++
y8
b15++
b10++
b14++
b12++−NH3
y9
b9
b10
b11

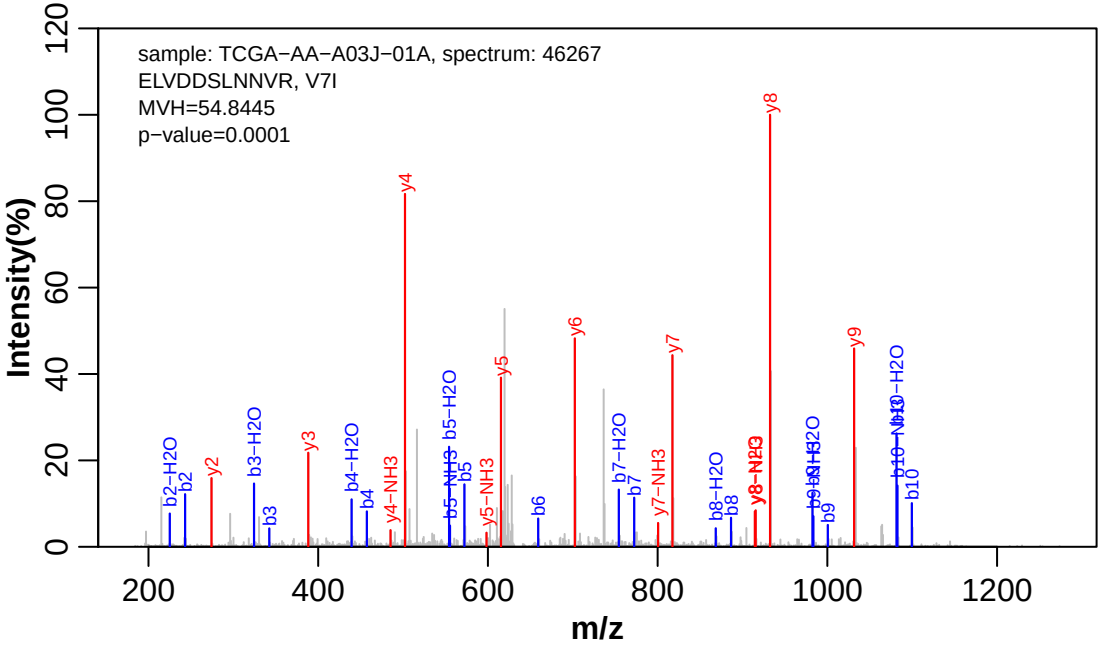

sample: TCGA−AA−A03J−01A, spectrum: 19186
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=99.3652
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b7+++
b7++−NH3
b7++−H2O
b8++
y9++−H2O
y10++−H2O
b12++−NH3
b12++
b21+++−H2O
y9
y9−H2O
y7
b16++
y10++−H2O
b20−H2O
y20++−H2O
b23++

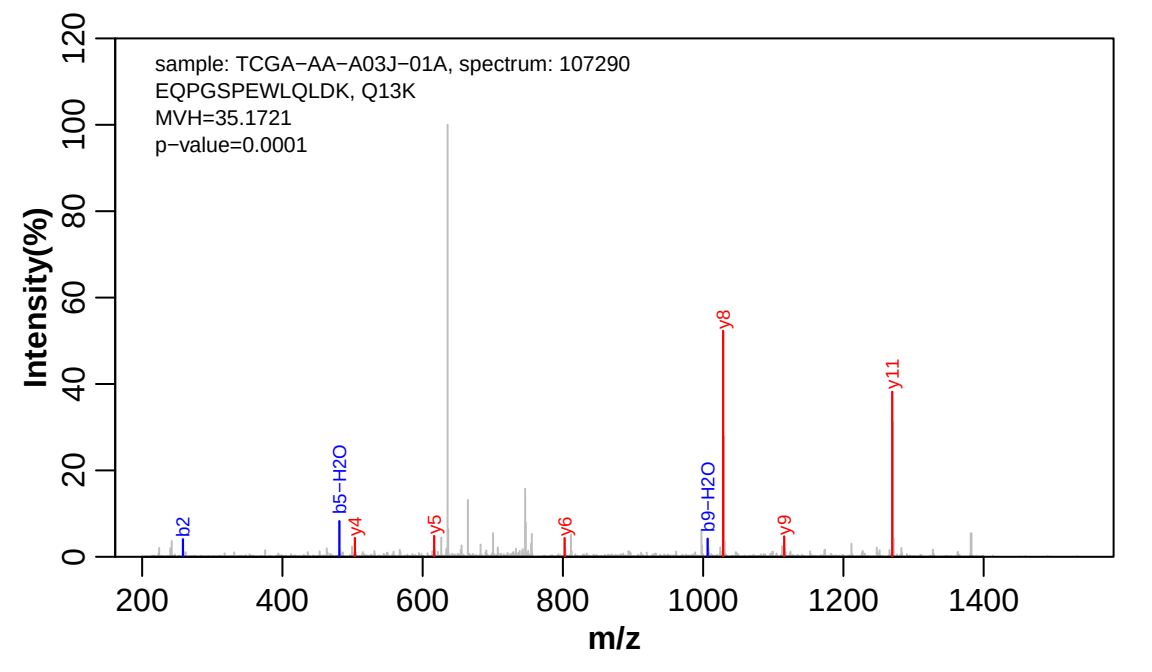

sample: TCGA−AA−A03J−01A, spectrum: 39788
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=34.2896
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7−H2O
b10−H2O

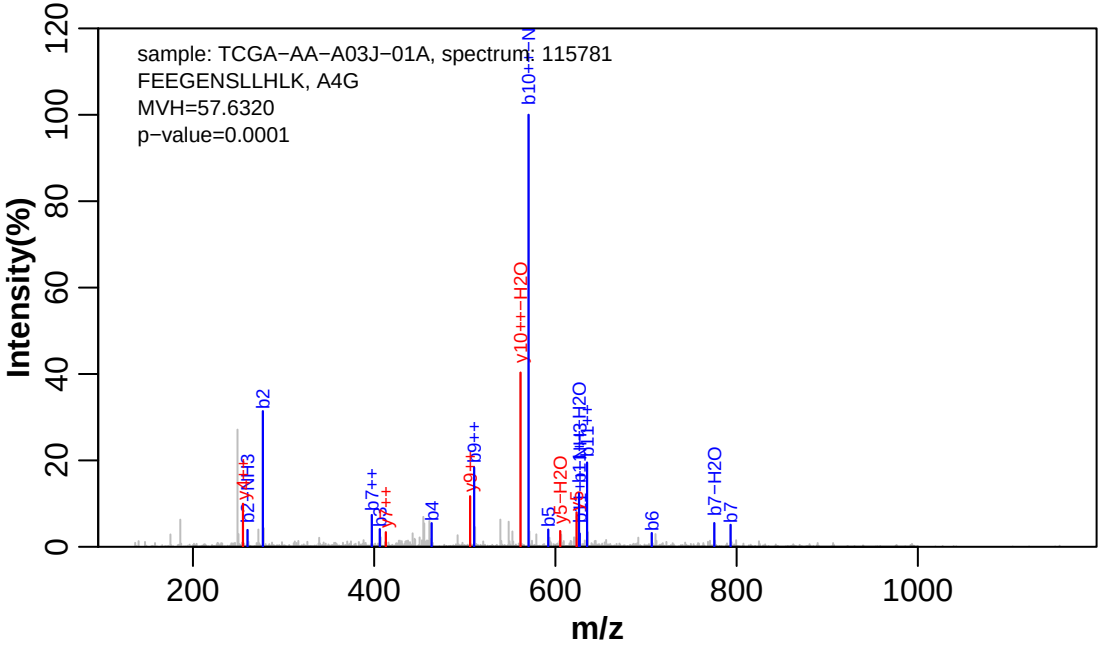

sample: TCGA−AA−A03J−01A, spectrum: 14904
EAPETDTSPSLWNVEFAK, D13N
MVH=53.7286
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b9−NH3
y10
y11
y12
y7
y6
y5
y4
b5−H2O
b6−H2O
b7−H2O
b8−H2O
b7
b8
b9
b11−H2O
y9
b11
b12
y13
y14
b15

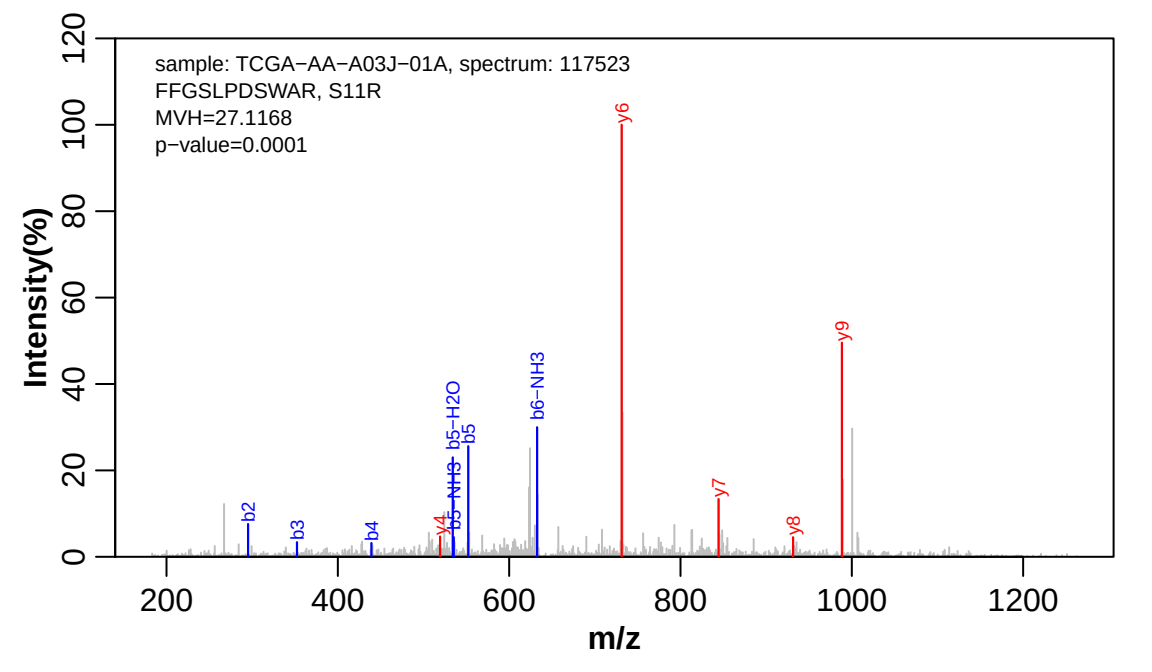

sample: TCGA−AA−A03J−01A, spectrum: 639
EASQGSSASSAPQSVK, H13Q
MVH=54.2838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y3
b4−H2O
y4−NH3
b5
b5−H2O
b7−H2O
b7−NH3
b7
y7−H2O
y7
b8−NH3
b8−H2O
y8
b9−NH3
b9−H2O
b9
b10−H2O
y9−H2O
b10−NH3
b10
b11−NH3
b11−H2O
y10
y11
y12
b13−NH3
b13
y14
b15

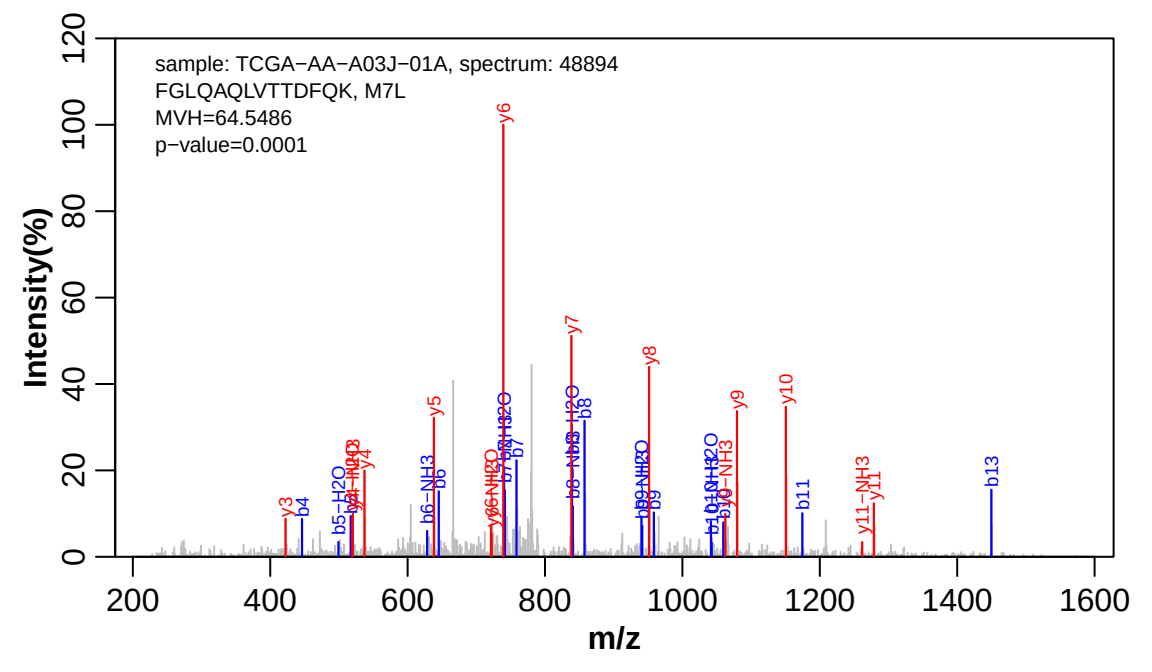

sample: TCGA−AA−A03J−01A, spectrum: 73164
EELGHLQNDLTSLENDK, M10L
MVH=39.1299
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y5
y4
y3
y2
b11++−H2O
b9−H2O
b9−NH3
b13++−H2O
b11−NH3
b11++
b5++
b9++−H2O
b12++
b7
b8−H2O
y8
y15++
y7++
y3−H2O
y8++
b10
b9

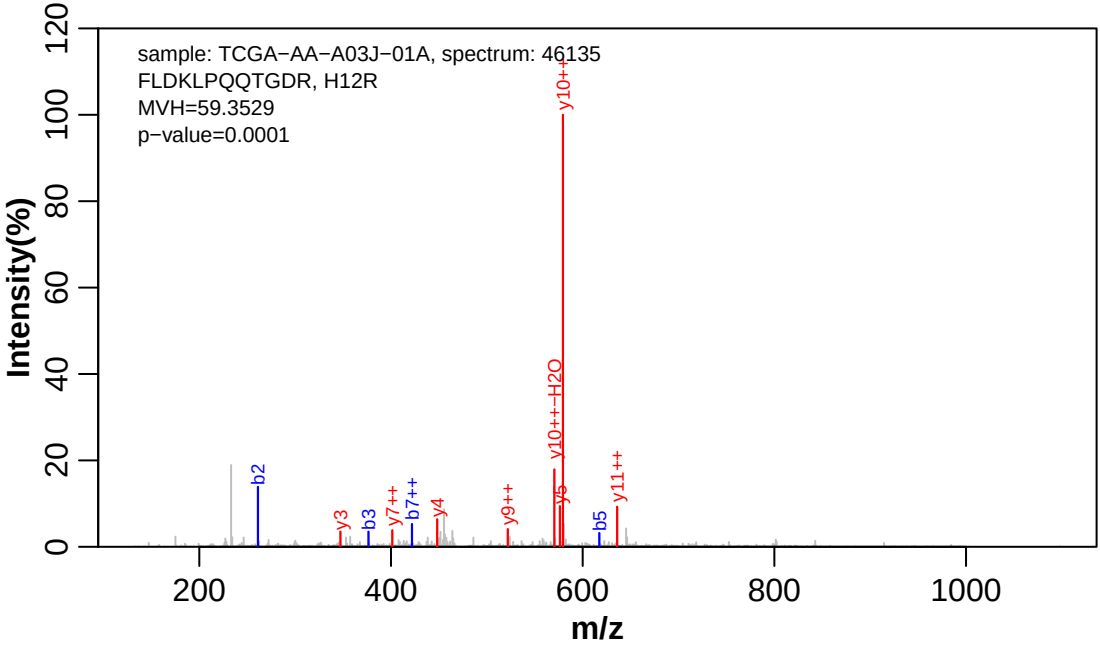

sample: TCGA−AA−A03J−01A, spectrum: 46267
ELVDDSLNNVR, V7I
MVH=54.8445
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
y4
y4−NH3
y5
y5−NH3
y6
y7
y7−NH3
y8
y9
b2−H2O
b2
b3−H2O
b3
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6
b7−H2O
b7
b8−H2O
b8
b9
b10
b10−H2O

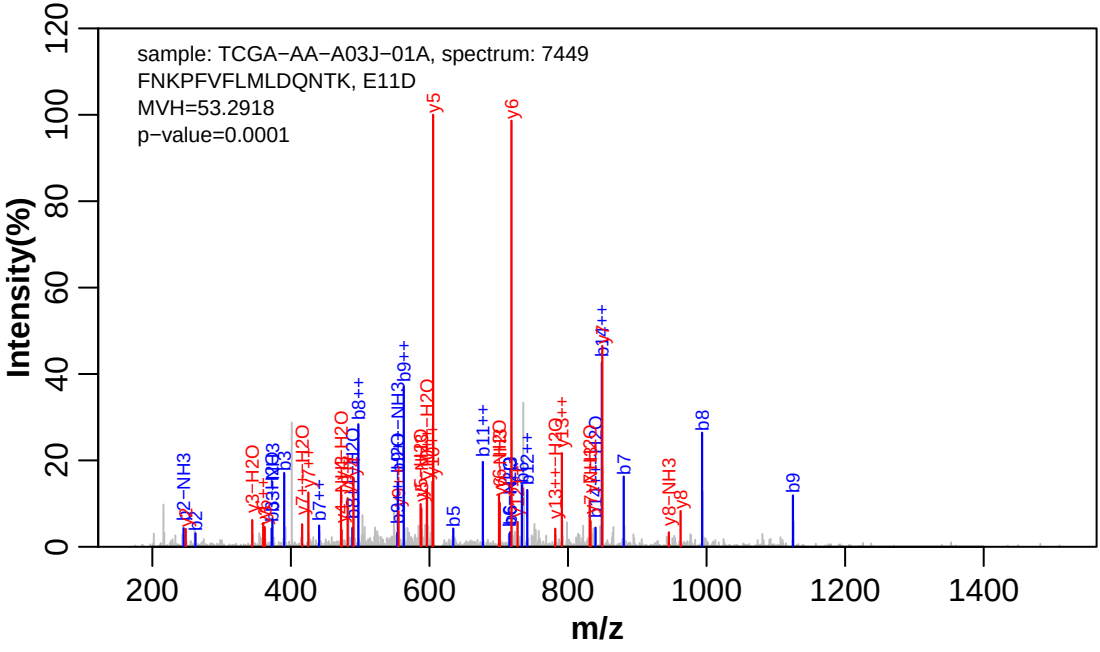

sample: TCGA−AA−A03J−01A, spectrum: 107290
EQPGSPEWLQLDK, Q13K
MVH=35.1721
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2
b5−H2O
y4
y5
y6
b9−H2O
y8
y9
y11

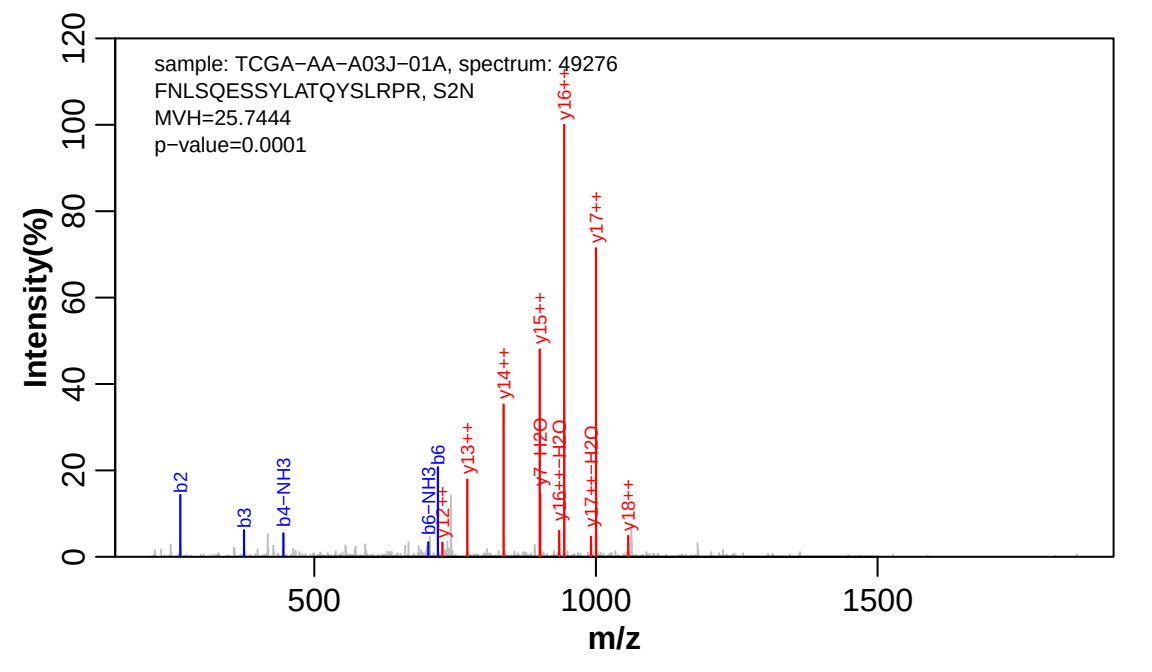

sample: TCGA−AA−A03J−01A, spectrum: 115781
FEEGENSLLHLK, A4G
MVH=57.6320
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b10++−NH3
y10++−H2O
b2
b2−NH3
b7++
y3++
b4
y9++
b9++
b5
y5−H2O
b6
b7−H2O
b7

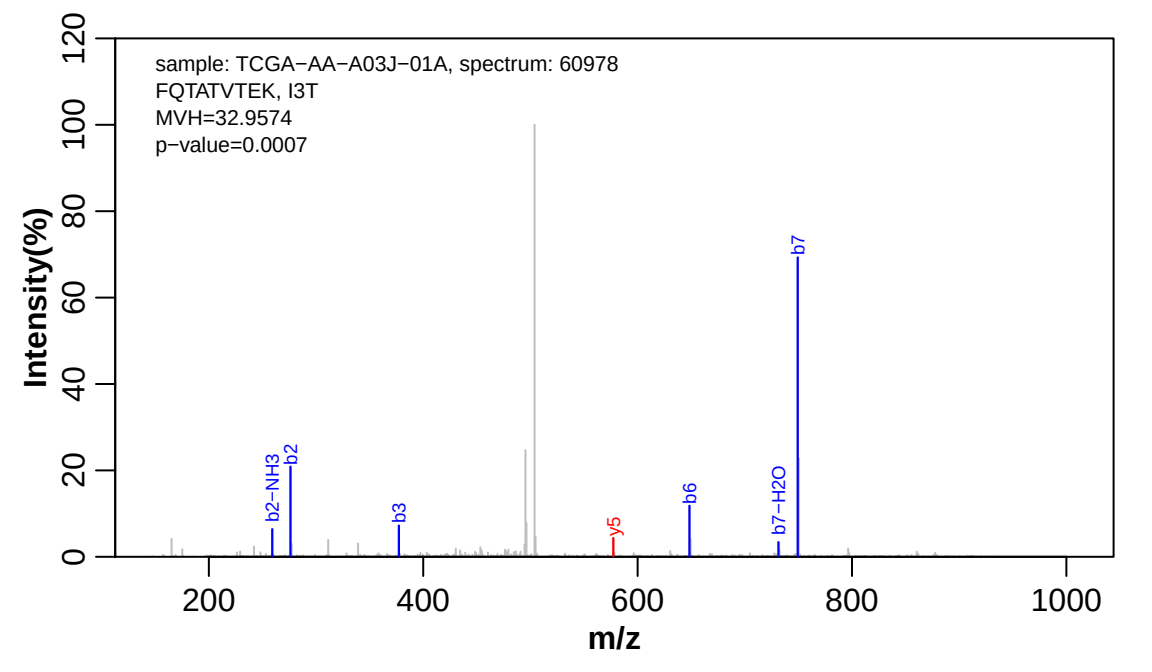

sample: TCGA−AA−A03J−01A, spectrum: 117523
FFGSLPDSWAR, S11R
MVH=27.1168
p−value=0.0001
Intensity(%)
m/z
y6
y9
y7
y8
b6−NH3
b5−H2O
b5
b5−NH3
y4
b2
b3
b4

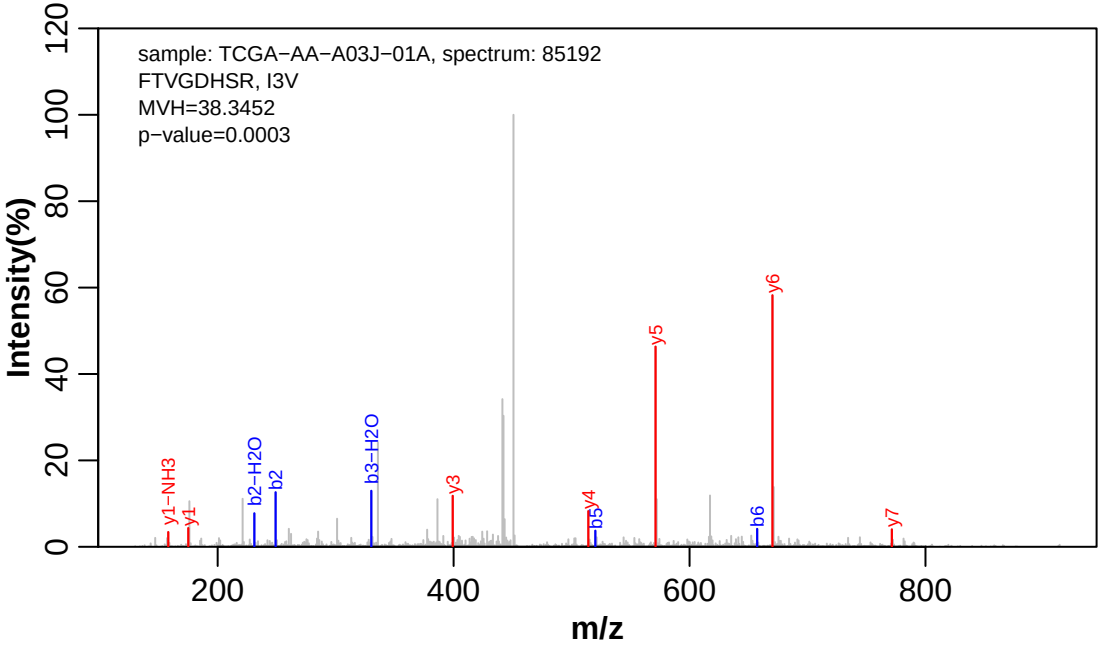

sample: TCGA−AA−A03J−01A, spectrum: 48894
FGLQAQLVTTDFQK, M7L
MVH=64.5486
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y9
y5
y3
b4
b5−H2O
b6−NH3
b6
b8
b11
b13
y11−NH3
y11

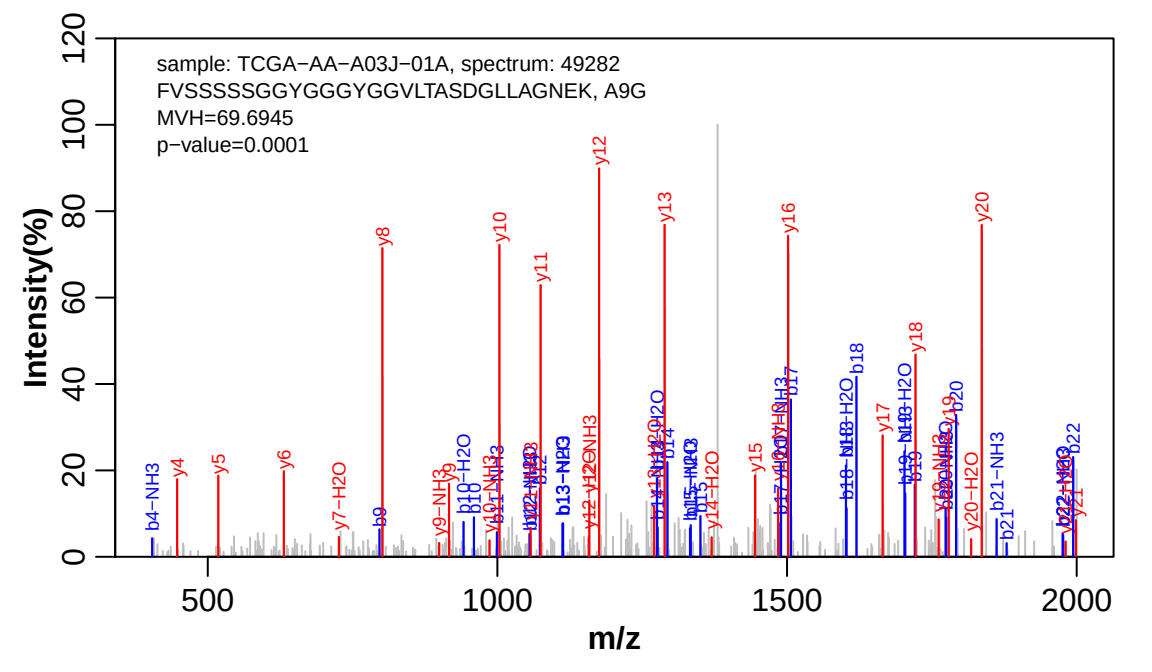

sample: TCGA−AA−A03J−01A, spectrum: 46135
FLDKLPQQTGDR, H12R
MVH=59.3529
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y10++
y10++-H2O
y11++
b2
y3
b3
y7++
b7++
y4
y9++
y5
b5

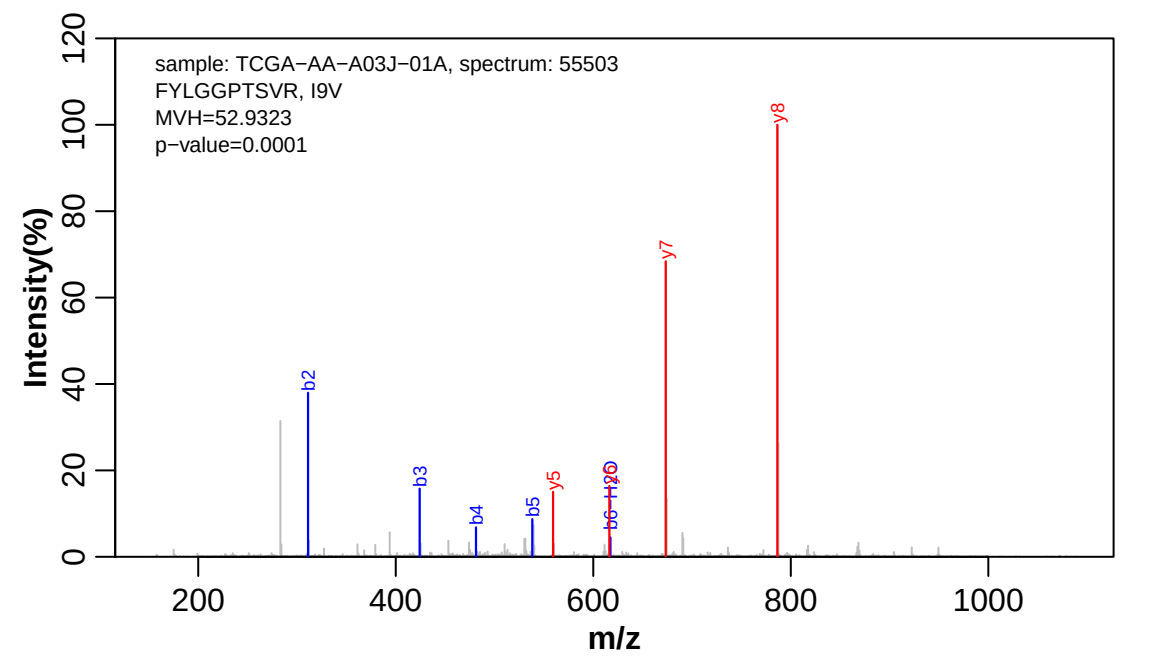

sample: TCGA−AA−A03J−01A, spectrum: 7449
FNKPFVFLMLDQNTK, E11D
MVH=53.2918
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y6
b17++
b9++
b8++
b11++
b8
b9
b7
b5
y8−NH3
b2−NH3

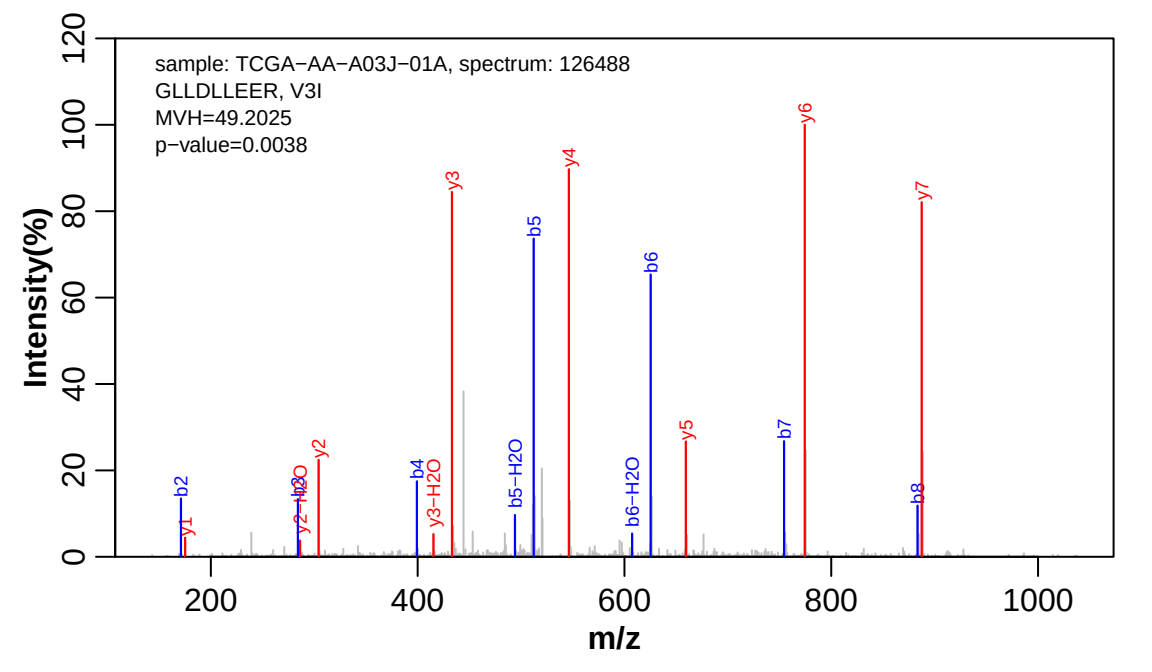

sample: TCGA−AA−A03J−01A, spectrum: 49276
FNLSQESSYLATQYSLRPR, S2N
MVH=25.7444
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4−NH3
b6−NH3
b6
y12++
y13++
y14++
y7−H2O
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

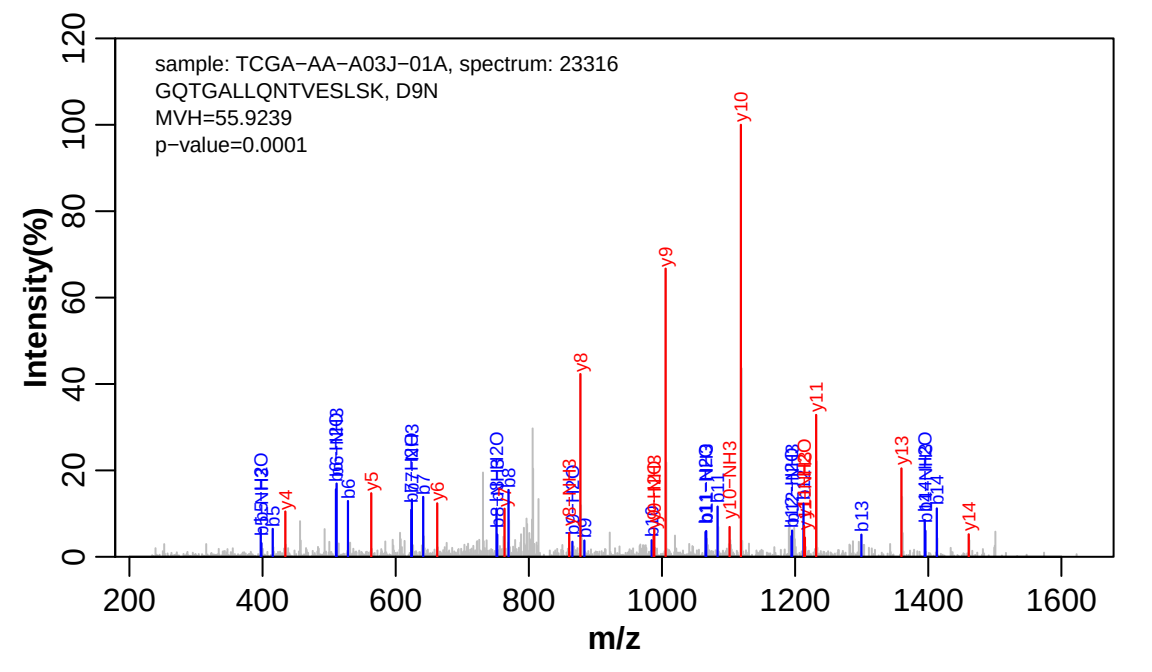

sample: TCGA−AA−A03J−01A, spectrum: 60978
FQTATVTEK, I3T
MVH=32.9574
p−value=0.0007
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
y5
b6
b7−H2O
b7

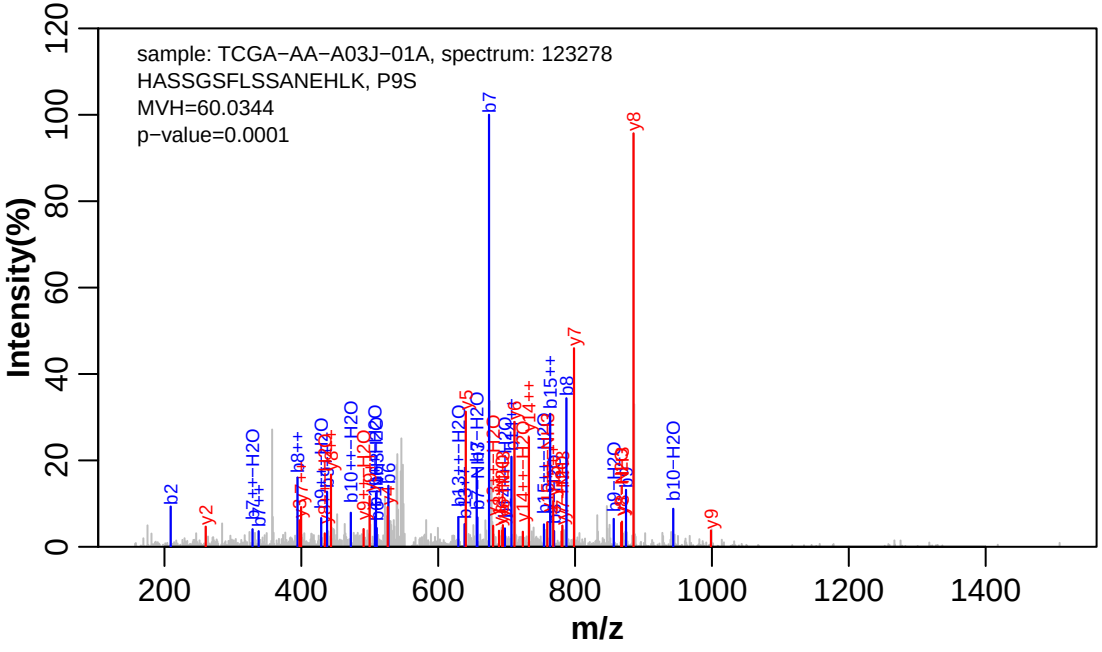

sample: TCGA−AA−A03J−01A, spectrum: 85192
FTVGDHSR, I3V
MVH=38.3452
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2−H2O
b2
b3−H2O
y3
b5
y4
y5
y6
b6
y7

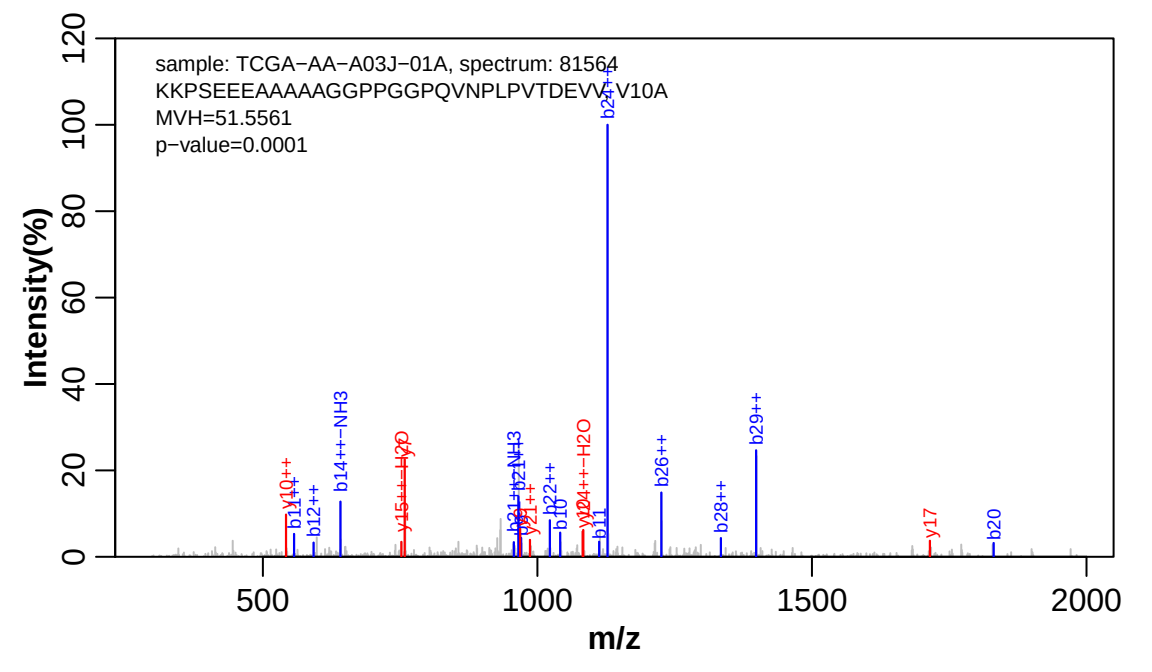

sample: TCGA−AA−A03J−01A, spectrum: 49282
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=69.6945
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−NH3
y4
y5
y6
y7−H2O
b9
y8
y9−NH3
b10−H2O
y10
y11
y12
y13
y15
y16
b18
y17
y18
y19
b20
y20
y20−H2O
b21−NH3
b22
y21

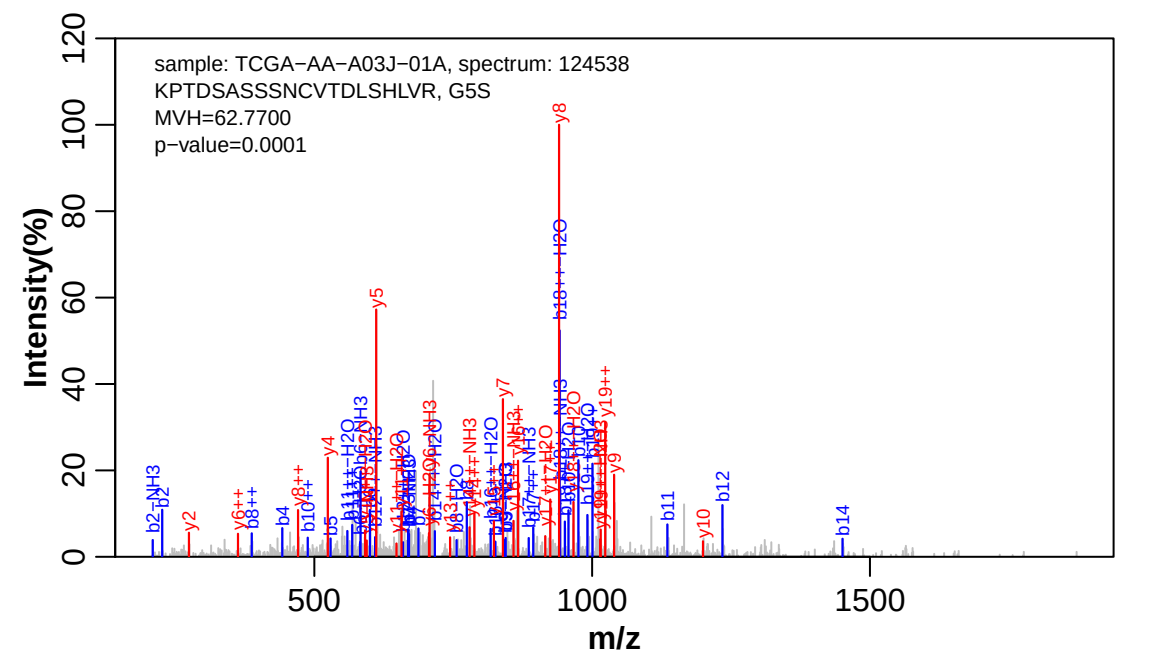

sample: TCGA−AA−A03J−01A, spectrum: 55503
FYLGGPTSVR, I9V
MVH=52.9323
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

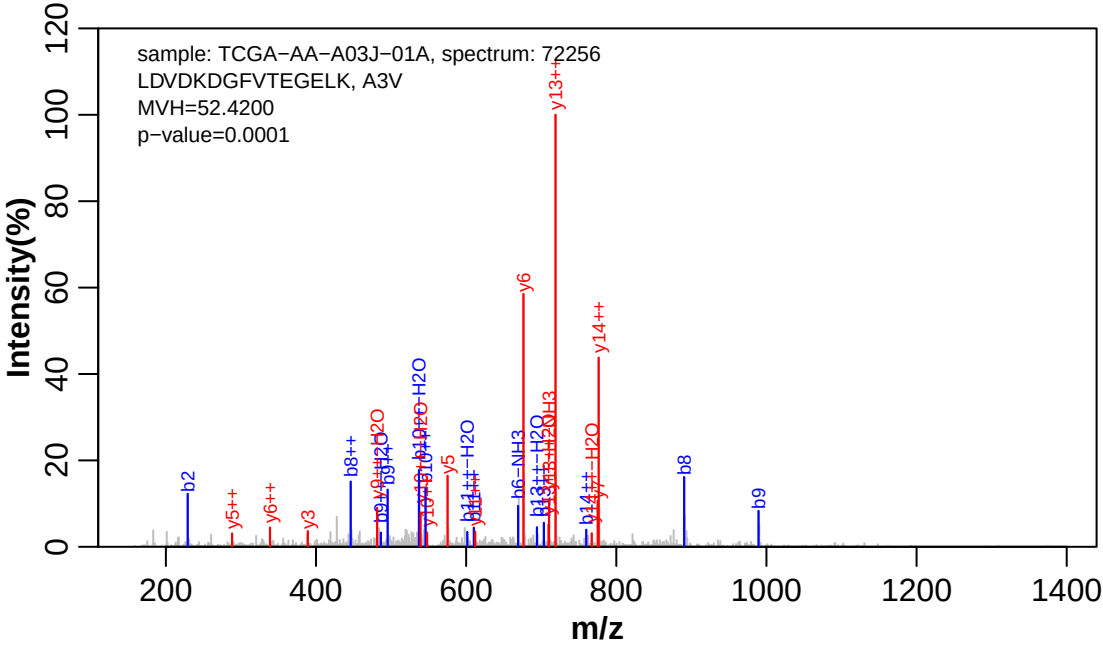

sample: TCGA−AA−A03J−01A, spectrum: 126488
GLLDLLEER, V3I
MVH=49.2025
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
y2−H2O
b4
y3−H2O
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7
y6
b8
y7

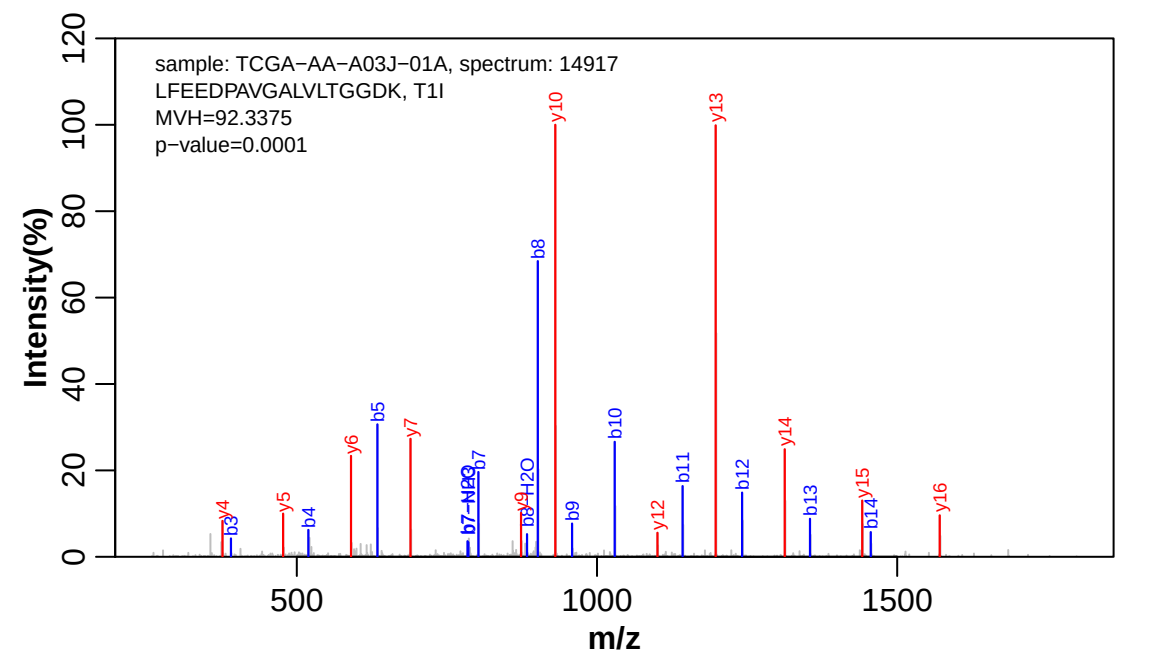

sample: TCGA−AA−A03J−01A, spectrum: 23316
GQTGALLQNTVESLSK, D9N
MVH=55.9239
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y6
y4
b6
b13
b14
y10−NH3

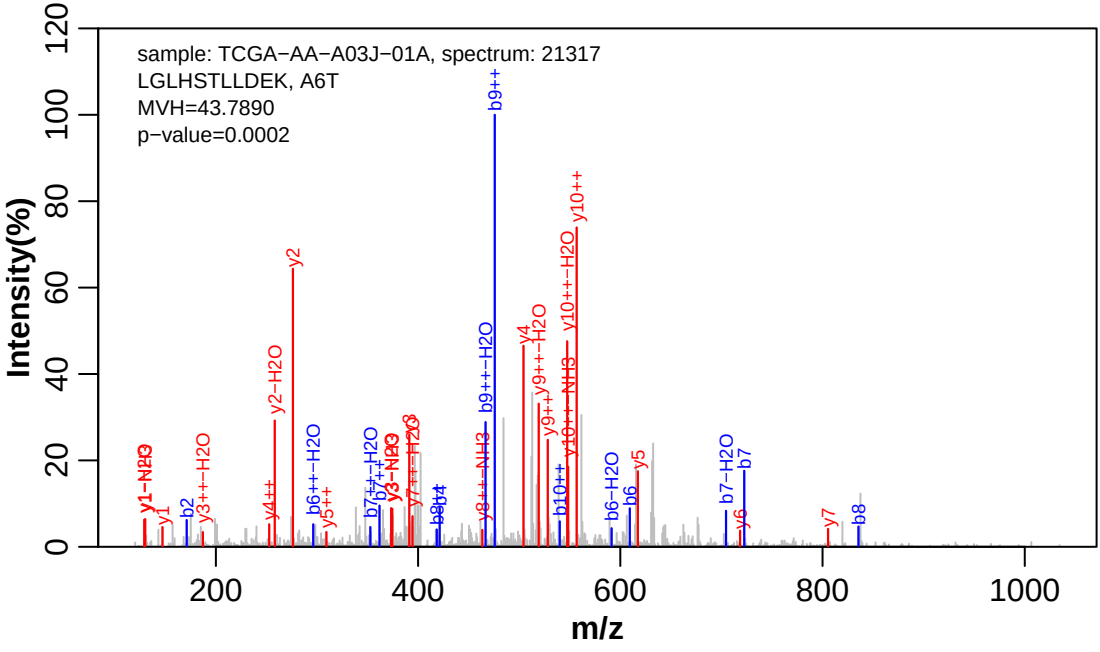

sample: TCGA−AA−A03J−01A, spectrum: 123278
HASSGSFLSSANEHLK, P9S
MVH=60.0344
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b7
y8
y7
b8
b10−H2O
y9

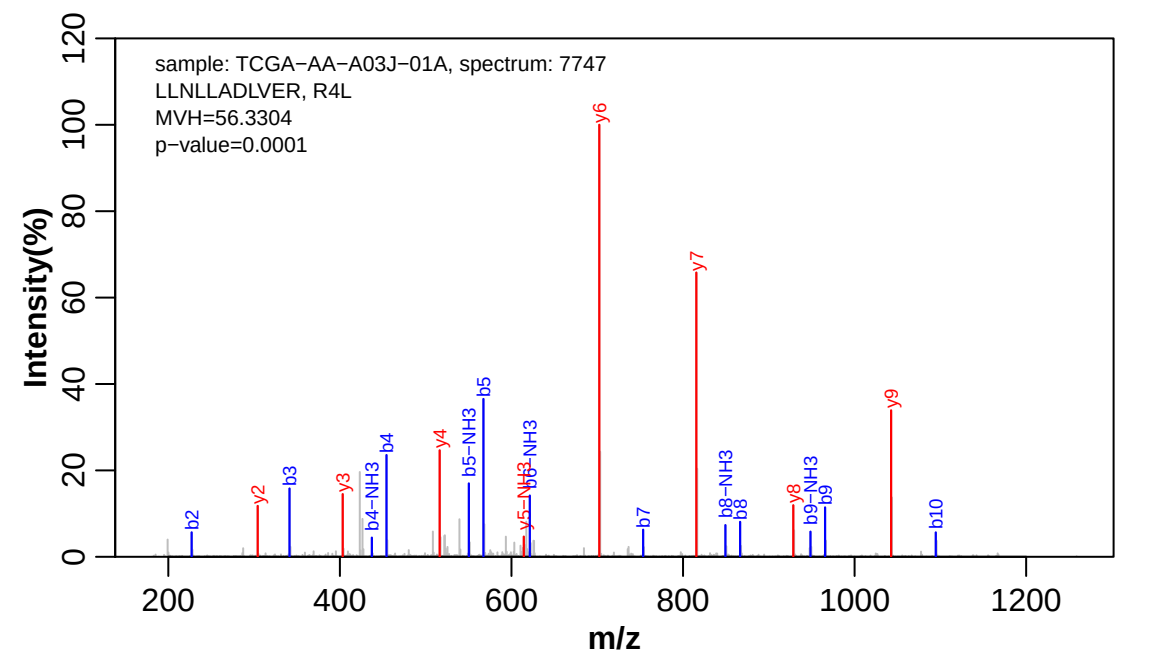

sample: TCGA−AA−A03J−01A, spectrum: 81564
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=51.5561
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b14++−NH3
y15++−H2O
b21++−NH3
y10++
b11++
b12++
y21++
b22++
b10
y24++−H2O
b11
b26++
b29++
b28++
y17
b20

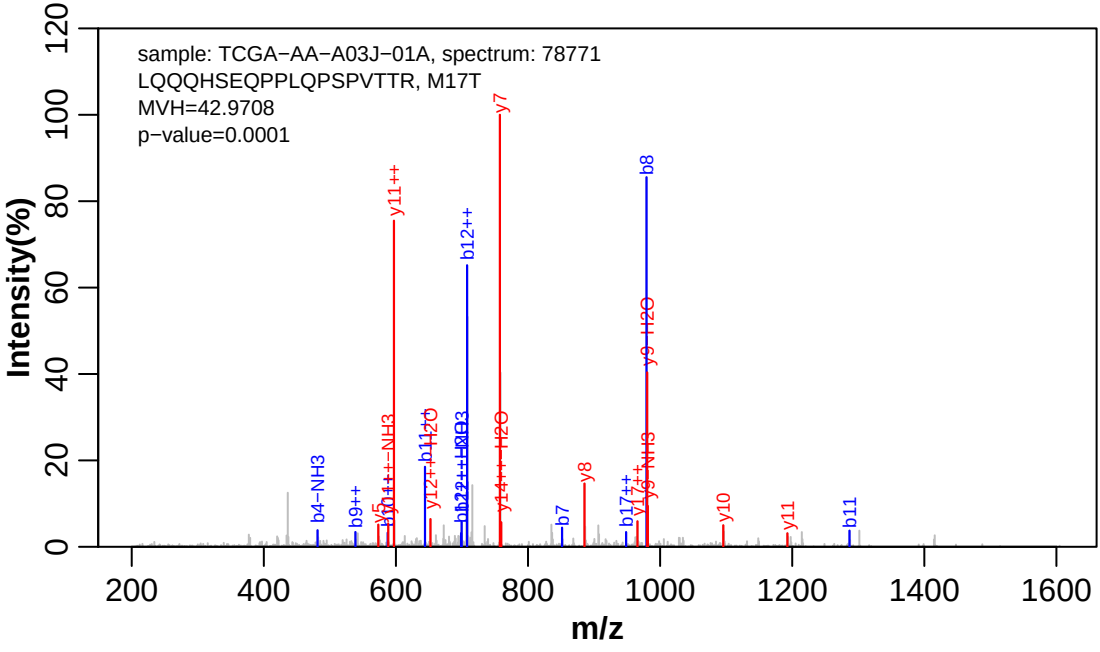

sample: TCGA−AA−A03J−01A, spectrum: 124538
KPTDSASSSNCVTDLSHLVR, G5S
MVH=62.7700
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y5
y4
y7
y9
y10
y11
y12
y14
y19++
b2−NH3
b2
y2
y6++
b8++
b4
b10++
b5
b18++ H2O
b11
b12
b14

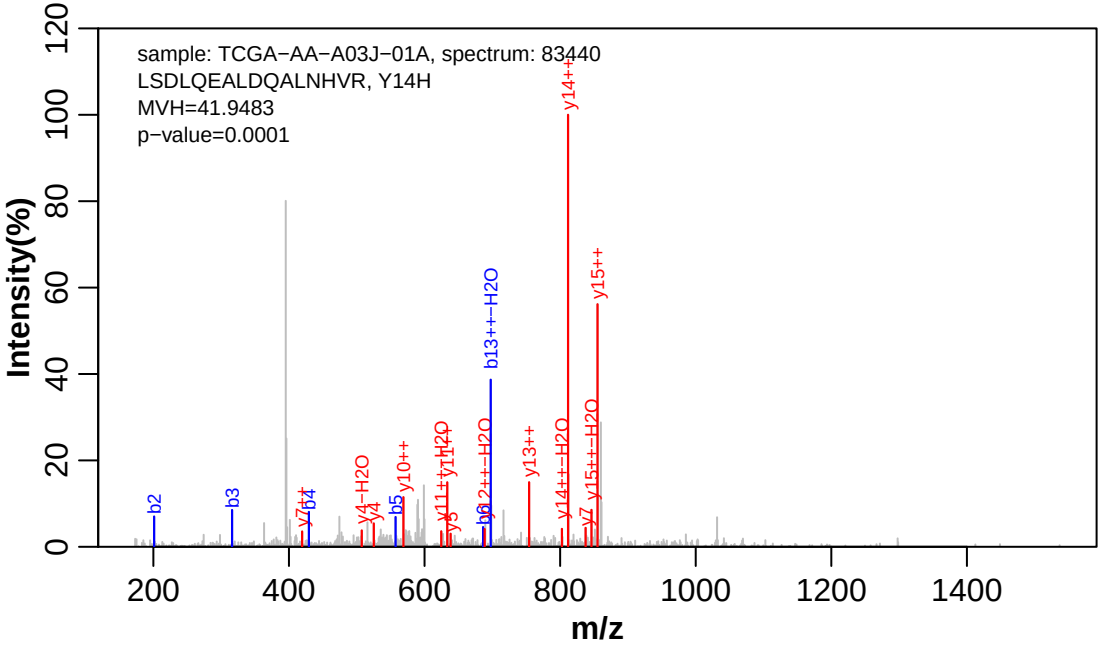

sample: TCGA−AA−A03J−01A, spectrum: 72256
LDVDKDGFVTEGELK, A3V
MVH=52.4200
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y5++
y6++
y3
b8++
b9++
y8++−H2O
b9++−H2O
y10++−H2O
y10++−NH3
y5
b11++−H2O
y6
b6−NH3
b13++−H2O
b13++−NH3
y14++
b14++−H2O
b8
b9

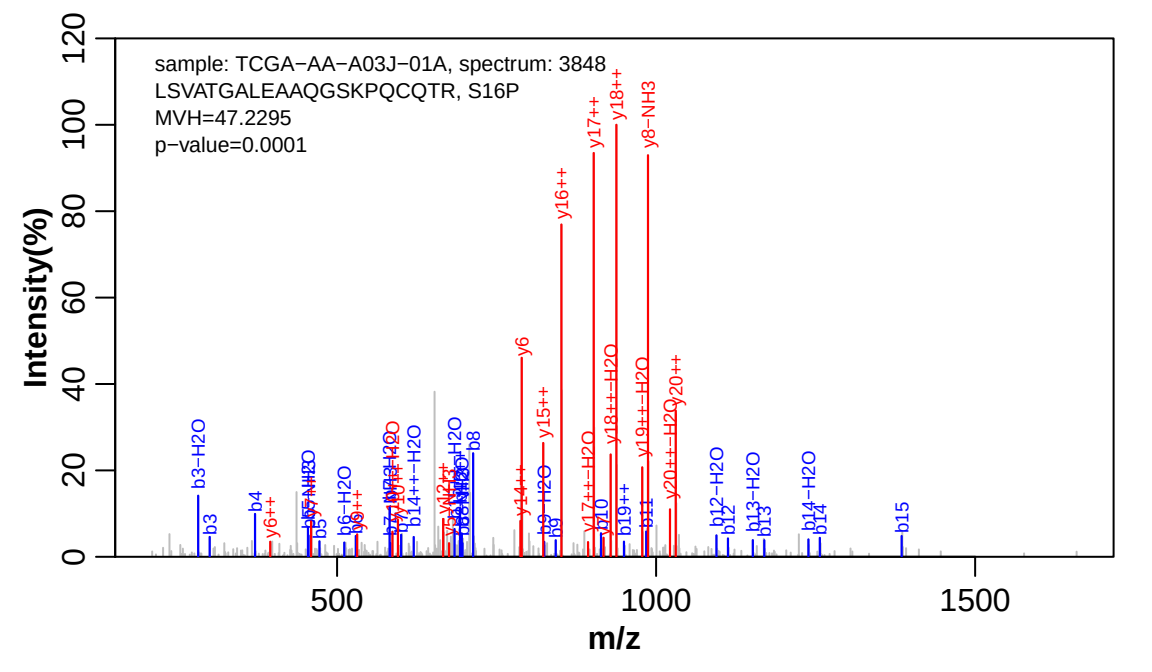

sample: TCGA−AA−A03J−01A, spectrum: 14917
LFEEDPAVGALVLTGGDK, T1I
MVH=92.3375
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
b5
y7
y6
b10
b11
b12
y14
y15
y16
b13
b14
y12
b9
b7
y4
y5
b4
b3

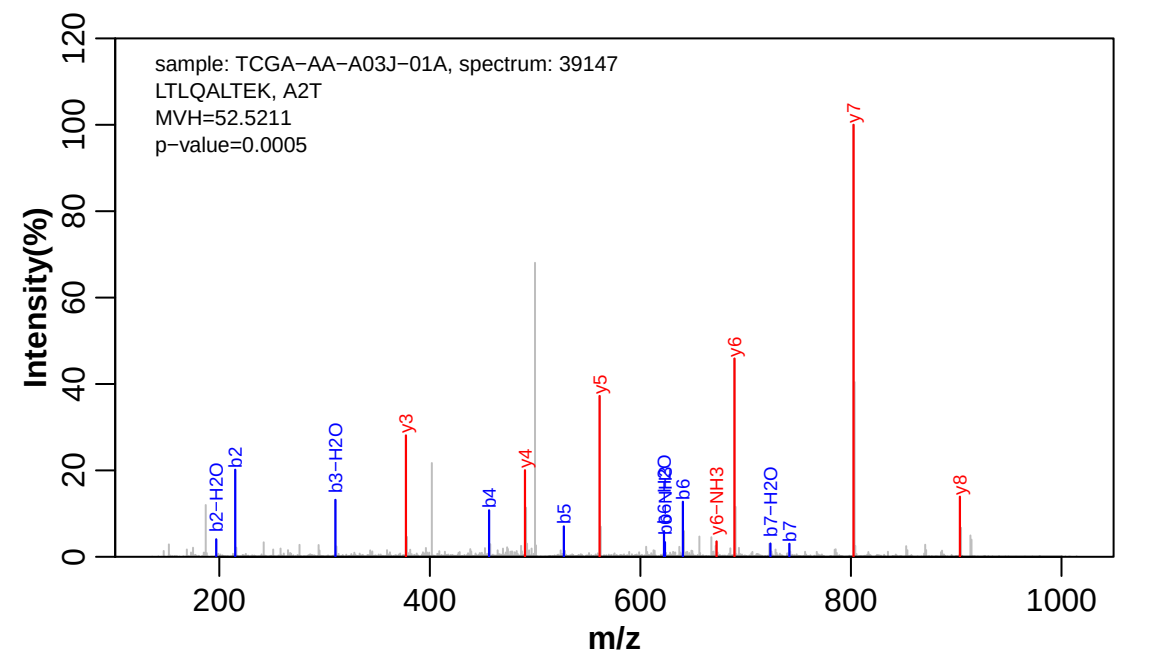

sample: TCGA−AA−A03J−01A, spectrum: 21317
LGLHSTLLDEK, A6T
MVH=43.7890
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1−NH3
y1
b2
y3++−H2O
y2
y2−H2O
y4++
b6++−H2O
y5++
b7++−H2O
b7++
y3−NH3
y3−H2O
y7++−H2O
b8++
b9++
b9++−H2O
y8++−NH3
y4
y9++
y9++−H2O
y10++
y10++−H2O
y10++−NH3
b10++
b6−H2O
b6
y5
b7−H2O
b7
y6
y7
b8

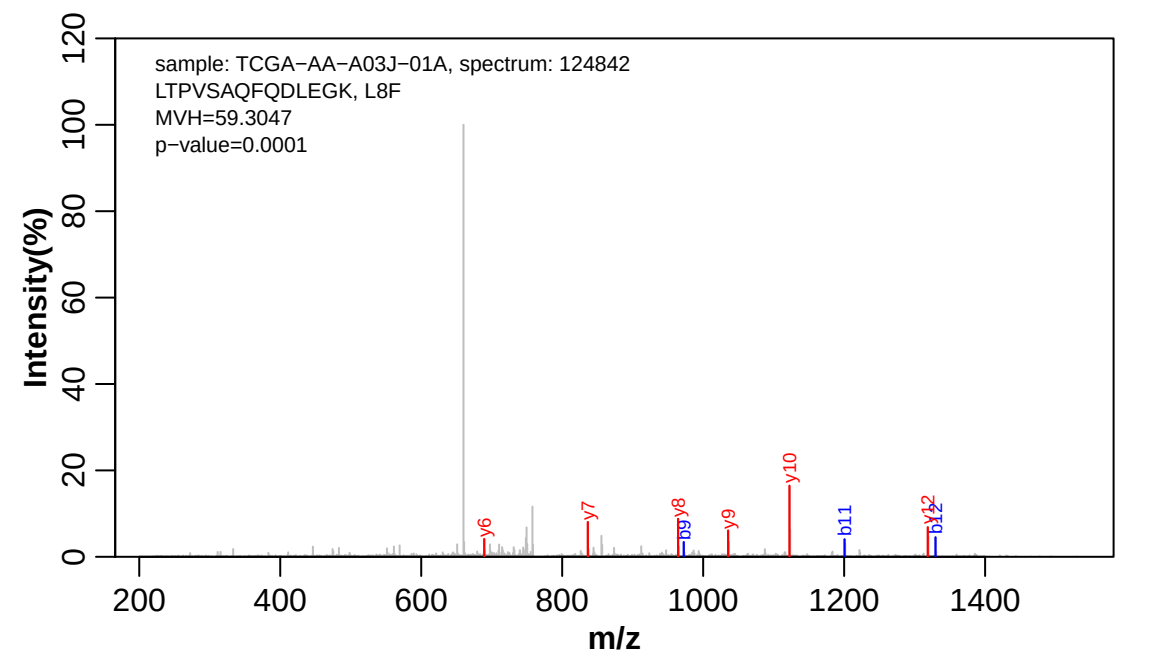

sample: TCGA−AA−A03J−01A, spectrum: 7747
LLNLLADLVER, R4L
MVH=56.3304
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

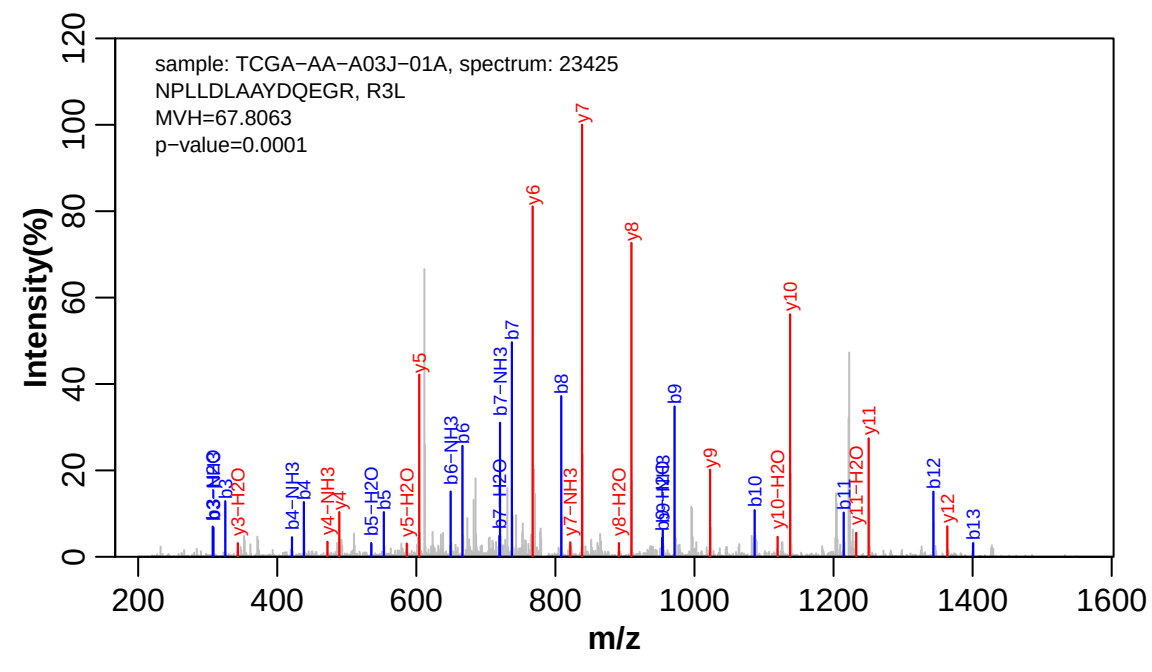

sample: TCGA−AA−A03J−01A, spectrum: 78771
LQQQHSEQPPLQPSPVTTR, M17T
MVH=42.9708
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y11++
b8
b12++
y9−H2O
y14++−H2O
y8
y9−NH3
b7
b17++
y10
y11
b11
b4−NH3
b9++

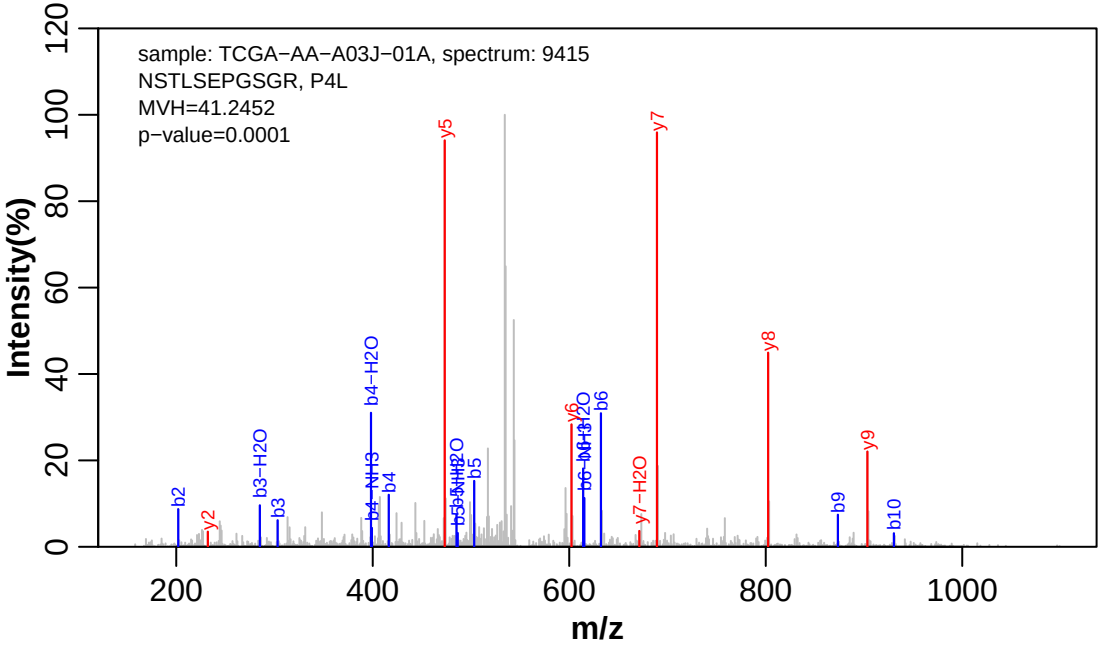

sample: TCGA−AA−A03J−01A, spectrum: 83440
LSDLQEALDQALNHVR, Y14H
MVH=41.9483
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y7++
b4
y4−H2O
y4
b5
y10++
y11++
y11++−H2O
y3
b9
b9 2++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y7
y15++−H2O
y15++

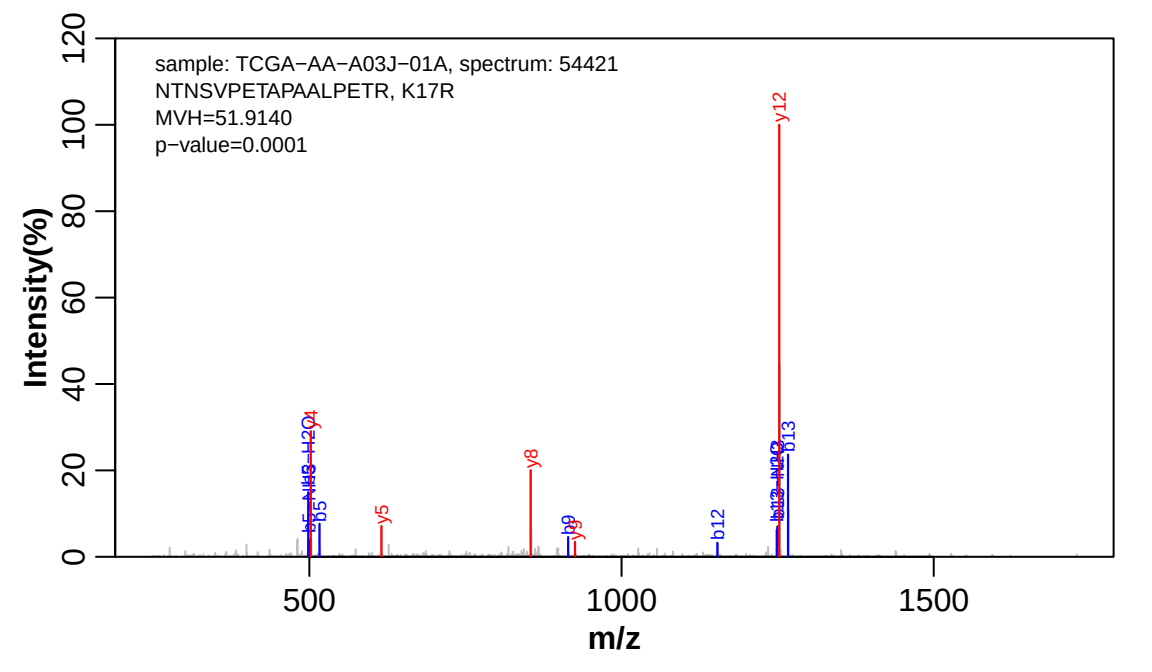

sample: TCGA−AA−A03J−01A, spectrum: 3848
LSVATGALEAAQGSKPQCQTR, S16P
MVH=47.2295
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b3
b4
y6++
b5−NH3
b5
b6−H2O
y9++
b7−H2O
b7−NH3
b14++−H2O
b8
y12++
y6
y14++
y15++
b9−H2O
b9
y16++
y17++−H2O
y10
y18++−H2O
y19++
b11
y19++−H2O
y17++
y18++
y8−NH3
y20++−H2O
y20++
b12−H2O
b12
b13−H2O
b13
b14−H2O
b14
b15

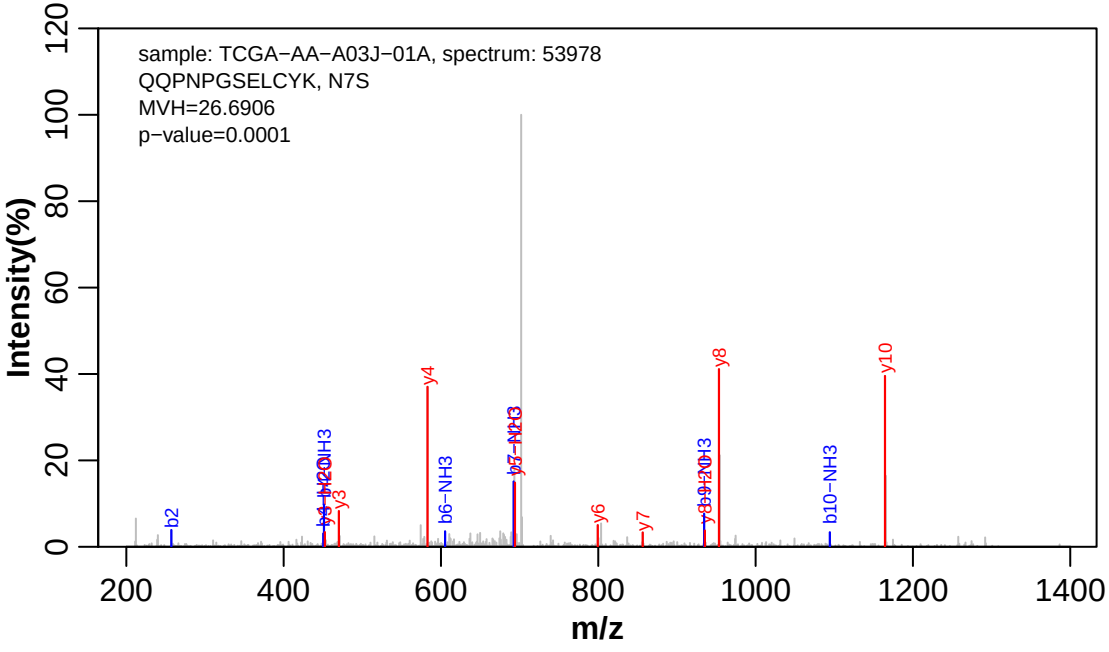

sample: TCGA−AA−A03J−01A, spectrum: 39147
LTLQALTEK, A2T
MVH=52.5211
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2−H2O
b2
b3−H2O
y3
b4
y4
b5
y5
b6
y6
y6−NH3
b7−H2O
b7
y7
y8

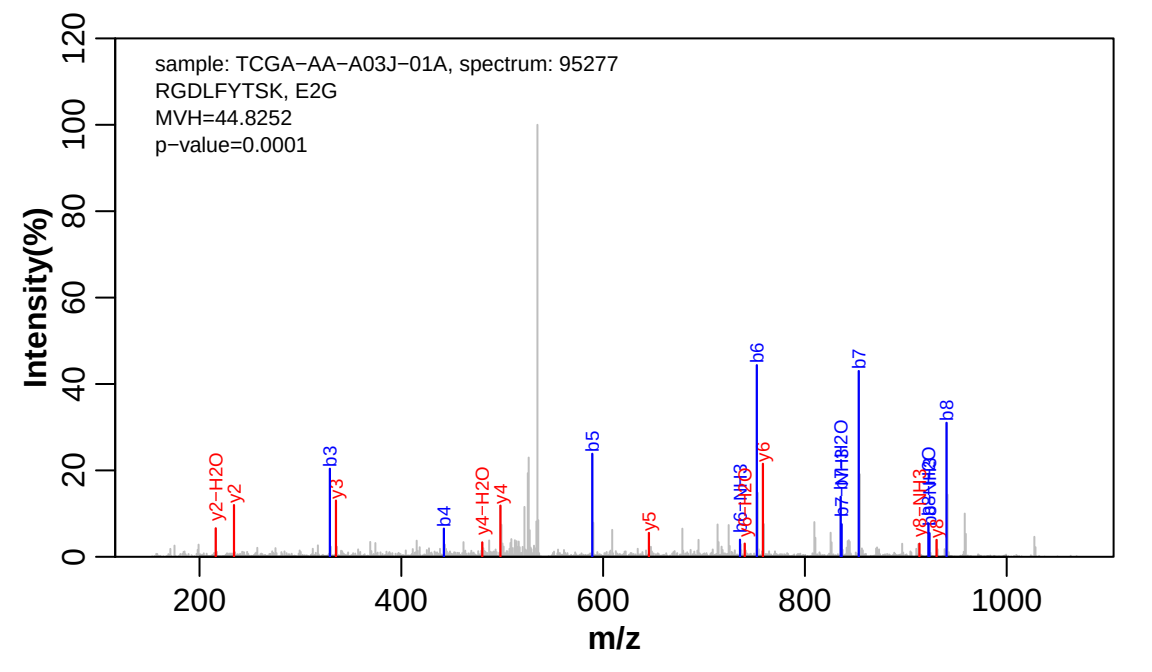

sample: TCGA−AA−A03J−01A, spectrum: 124842
LTPVSAQFQDLEGK, L8F
MVH=59.3047
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y6
y7
b9
y8
y9
y10
b11
y12
b12

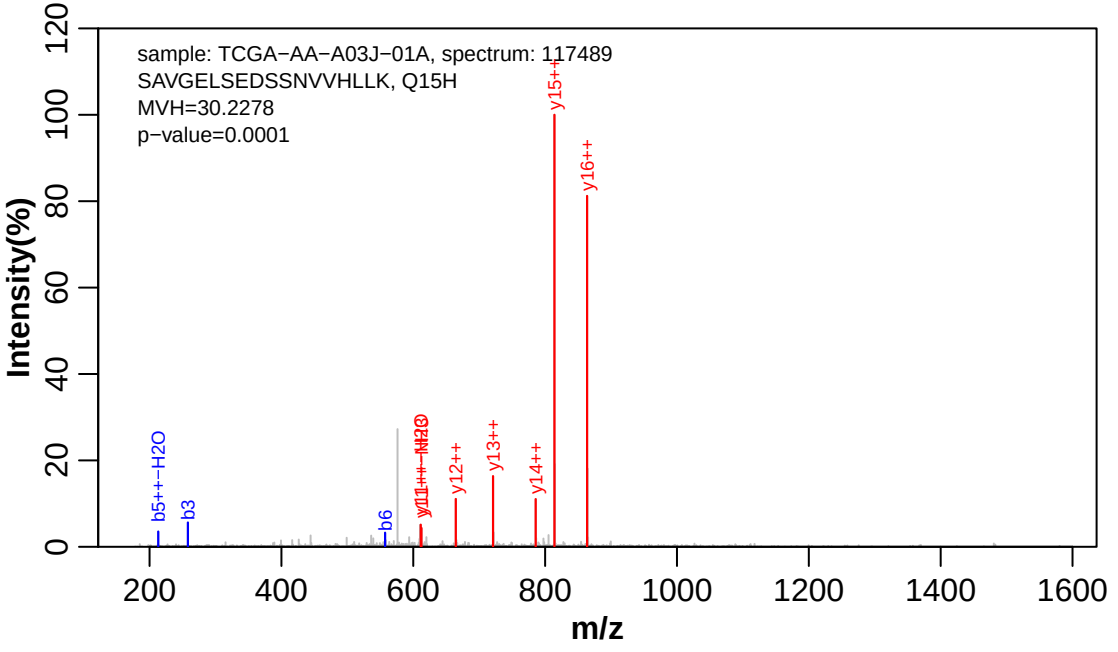

sample: TCGA−AA−A03J−01A, spectrum: 23425
NPLLDLAAYDQEGR, R3L
MVH=67.8063
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
b7
b8
b9
y9
b10
y11
b12
y12
b13
b7−NH3
b6−NH3
y7−NH3
y8−H2O
y10−H2O
y11−H2O
y5−H2O
b7−H2O
b6
b5
b4
b3
y4
y3
y4−NH3
b5−H2O
b4−NH3
b3−NH3
b3−H2O

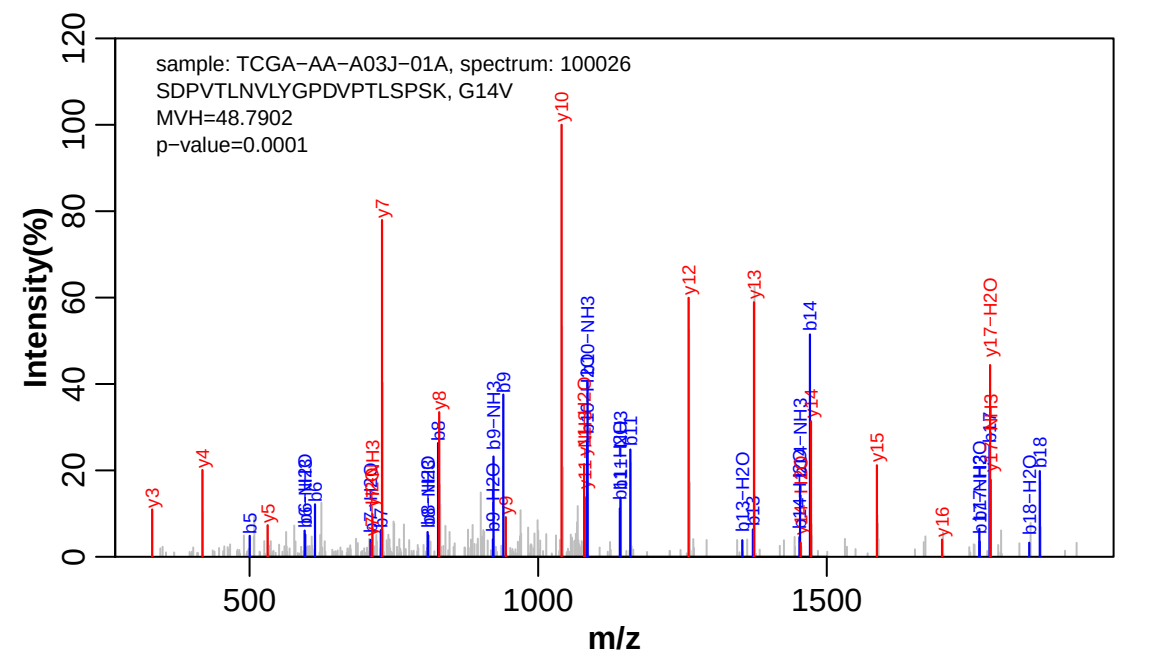

sample: TCGA−AA−A03J−01A, spectrum: 9415
NSTLSEPGSGR, P4L
MVH=41.2452
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
b3−H2O
b3
b4−H2O
b4−NH3
b4
y5
b5−NH3−H2O
b5
y6
b6−NH3−H2O
b6
y7
y7−H2O
y8
b9
y9
b10

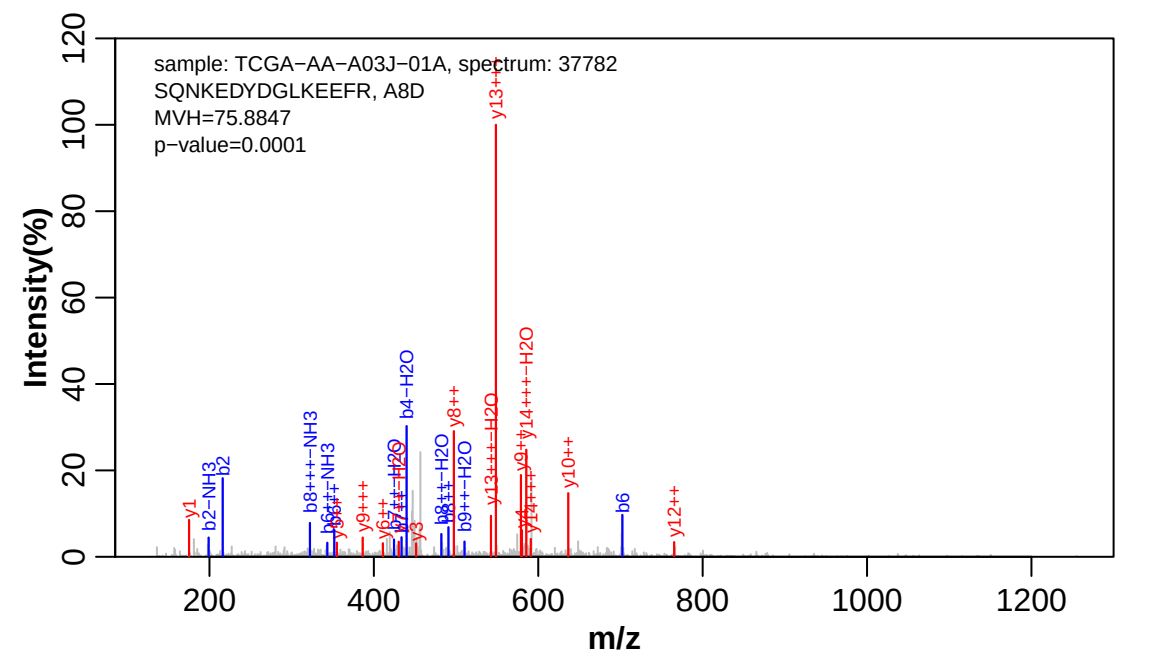

sample: TCGA−AA−A03J−01A, spectrum: 54421
NTNSVPETAPAALPETR, K17R
MVH=51.9140
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b5
b12
b13

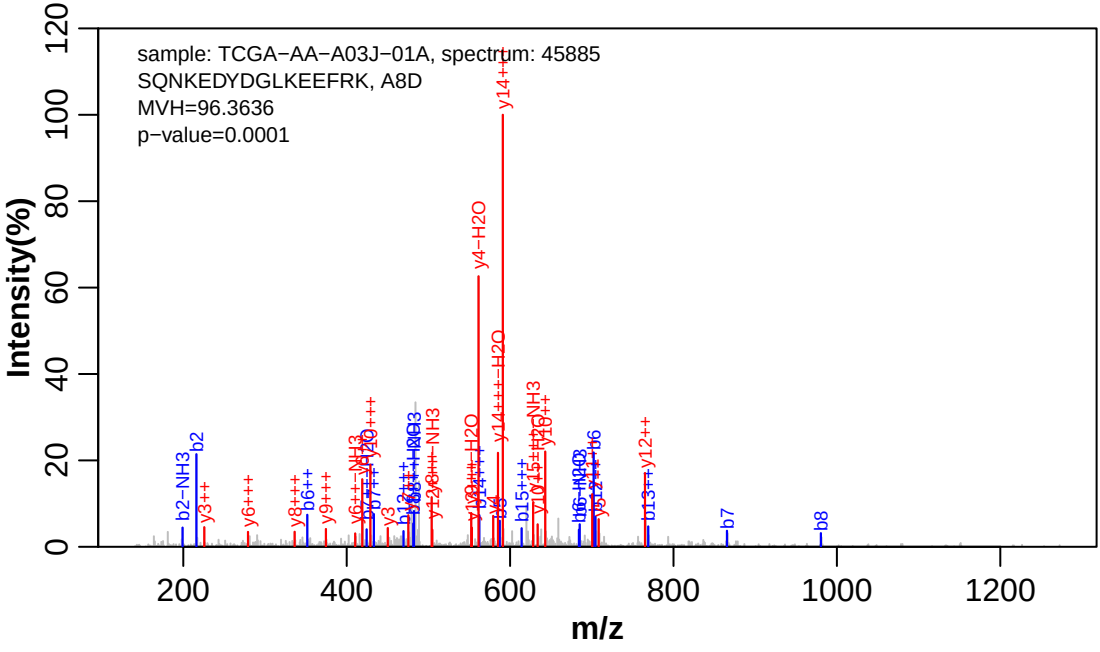

sample: TCGA−AA−A03J−01A, spectrum: 53978
QQPNPGSELCYK, N7S
MVH=26.6906
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y4
b6−NH3
y6
y7
y8
b10−NH3
y10

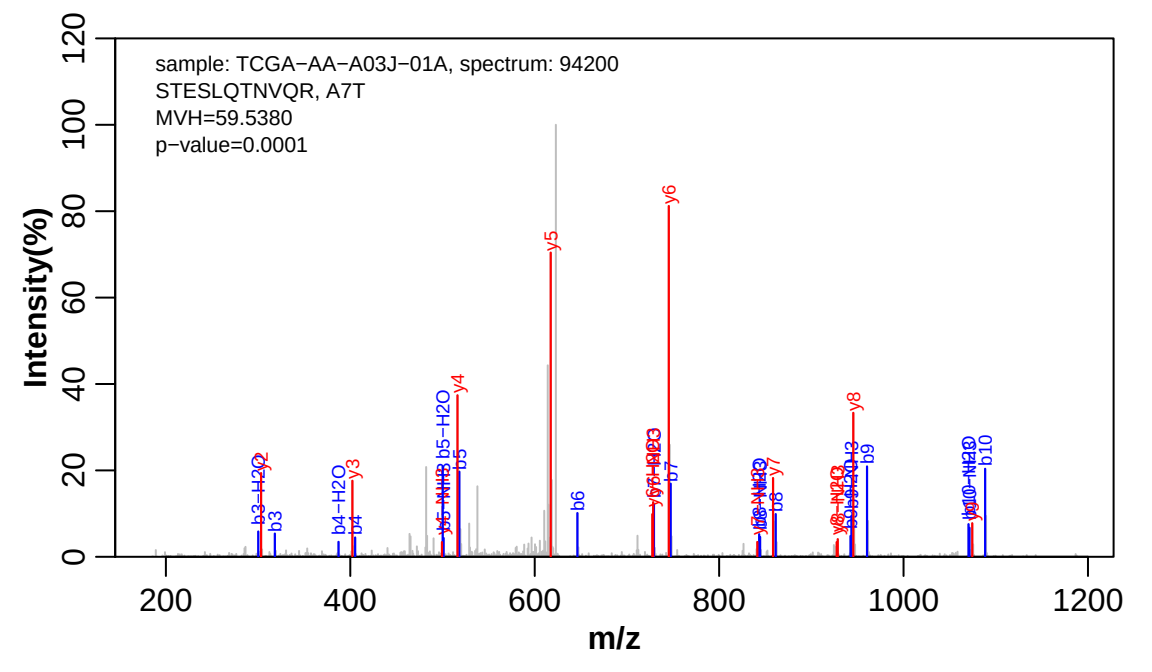

sample: TCGA−AA−A03J−01A, spectrum: 95277
RGDLFYTSK, E2G
MVH=44.8252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2−H2O
y2
b3
y3
b4
y4−H2O
y4
b5
y5
b6
y6
b7
b8

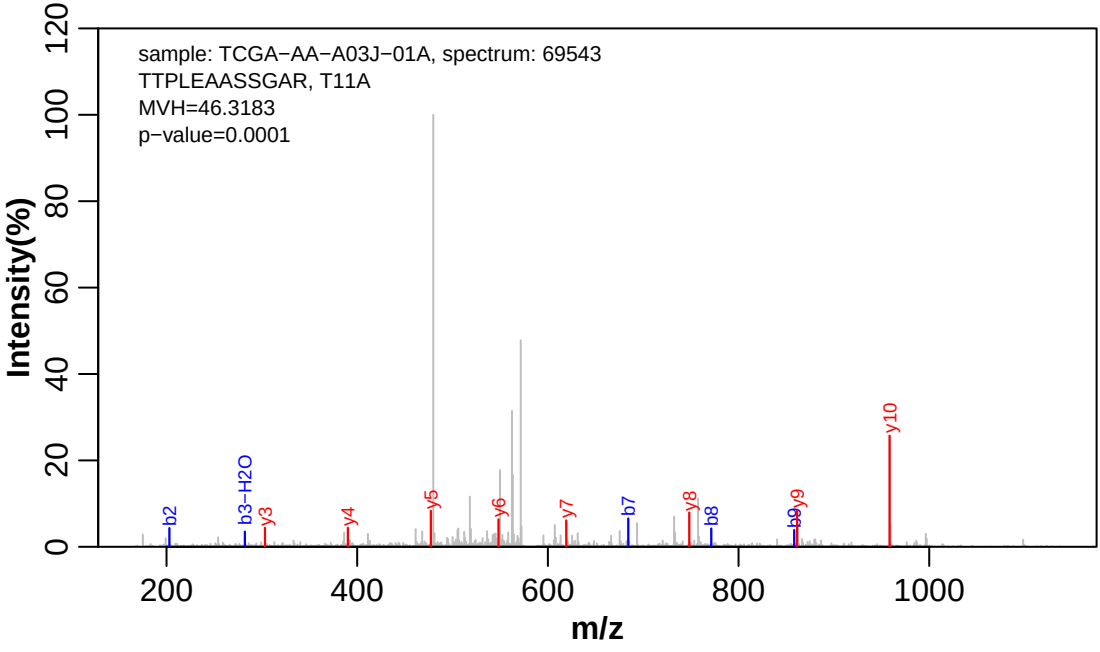

sample: TCGA−AA−A03J−01A, spectrum: 117489
SAVGELSEDSSNVVHLLK, Q15H
MVH=30.2278
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5++−H2O
b3
b6
y12++
y13++
y14++
y15++
y16++

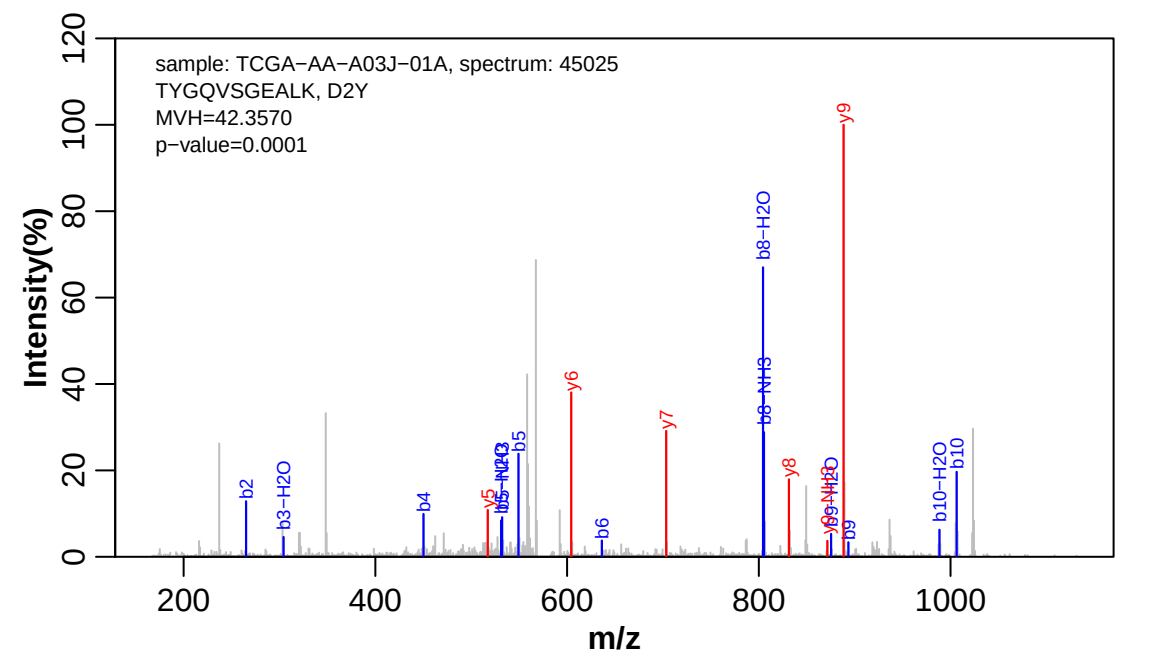

sample: TCGA−AA−A03J−01A, spectrum: 100026
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=48.7902
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y7
y12
y13
b14
y8
y4
y3
y5
b5
y15
y16
y17−H2O
b18−H2O
b13−H2O
b9−NH3
b9
y14
b11

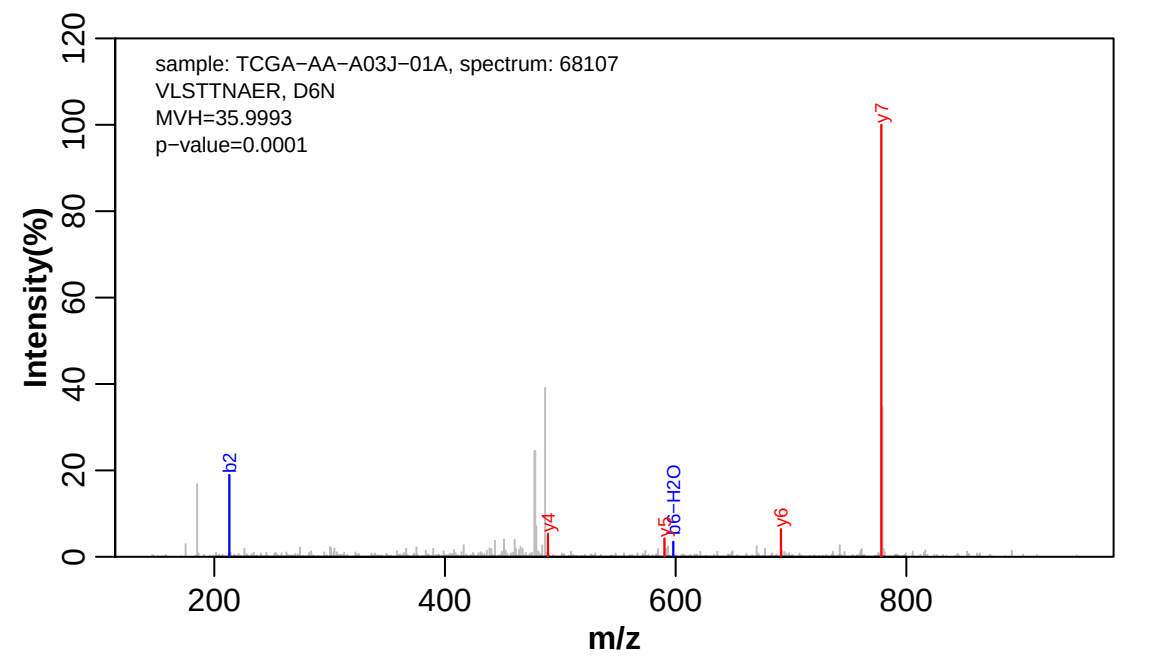

sample: TCGA−AA−A03J−01A, spectrum: 37782
SQNKEDYDGLKEEFR, A8D
MVH=75.8847
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2−NH3
b2
b8+++−NH3
y6++
y9+++
y6++
y7++−H2O
y7++
y3
b4−H2O
b8++−H2O
b9++−H2O
y8++
y13+++−H2O
y13+++
y14+++−H2O
y14++++
y10++
b6
y12++

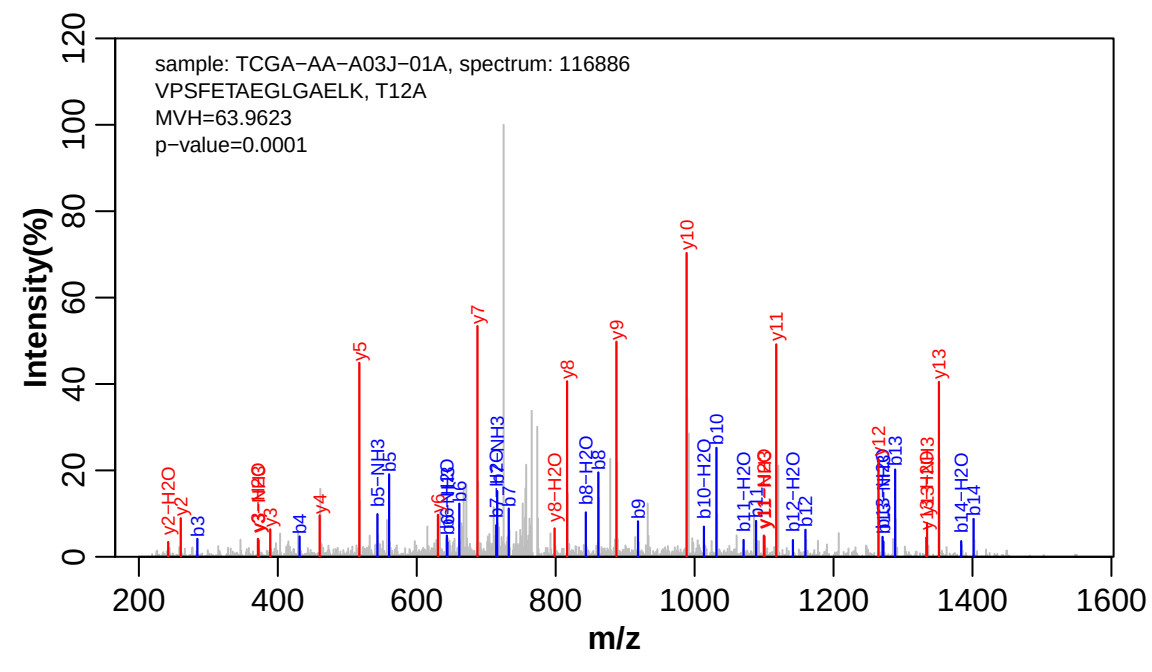

sample: TCGA−AA−A03J−01A, spectrum: 45885
SQNKEDYDGLKEEFRK, A8D
MVH=96.3636
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y14++
y4−H2O
y14++−H2O
b2−NH3
b2
y3++
y6+++
y8+++
b6++
y9+++
b15+++
y12++
b7
b8

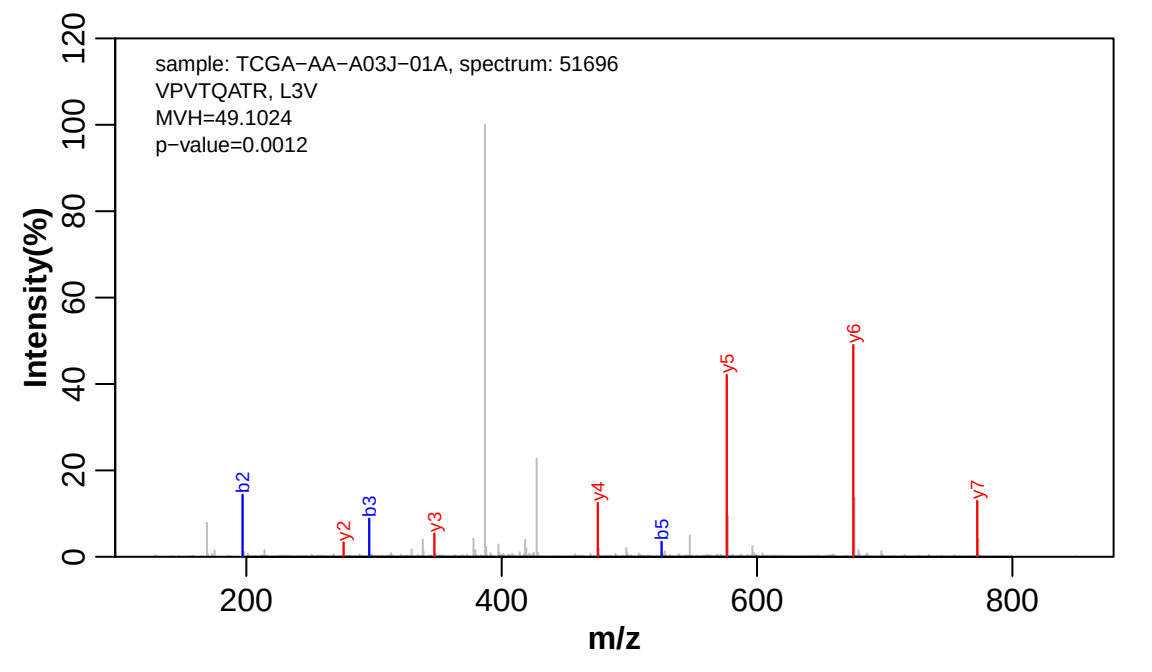

sample: TCGA−AA−A03J−01A, spectrum: 94200
STESLQTNVQR, A7T
MVH=59.5380
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y5
y6
y4
y8
b6
b7
b9
b10
b5−H2O
b5
y3
b4−H2O
b4
b3−H2O
y2
b3

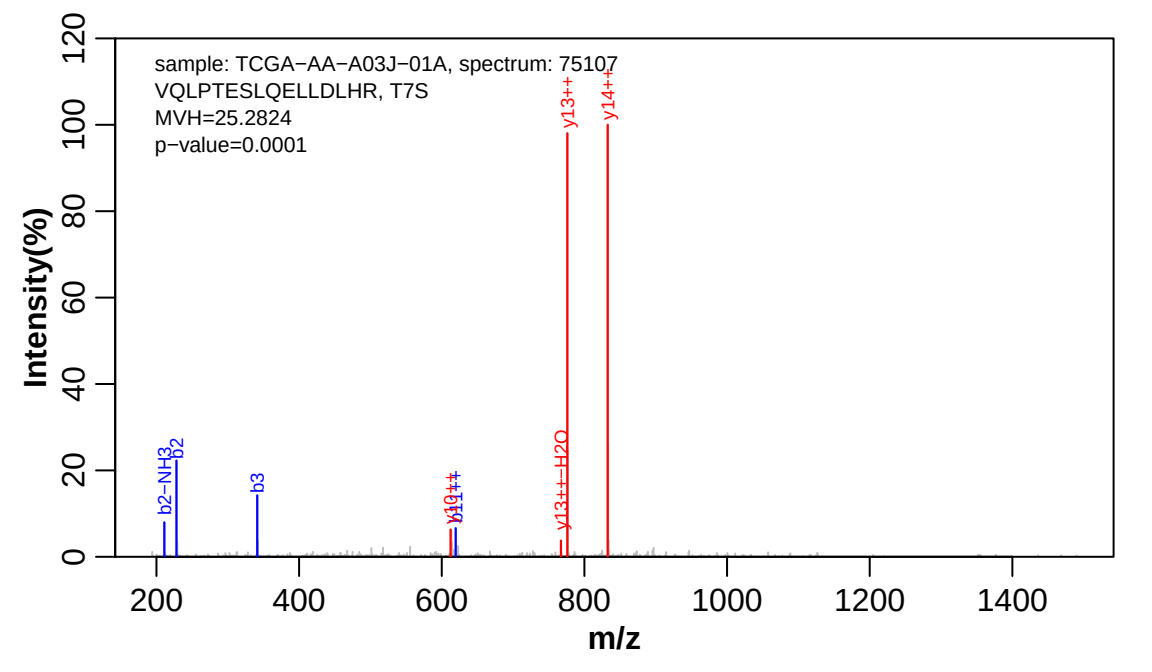

sample: TCGA−AA−A03J−01A, spectrum: 69543
TTPLEAASSGAR, T11A
MVH=46.3183
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
y3
y4
y5
y6
y7
b7
y8
b8
b9
y9
y10

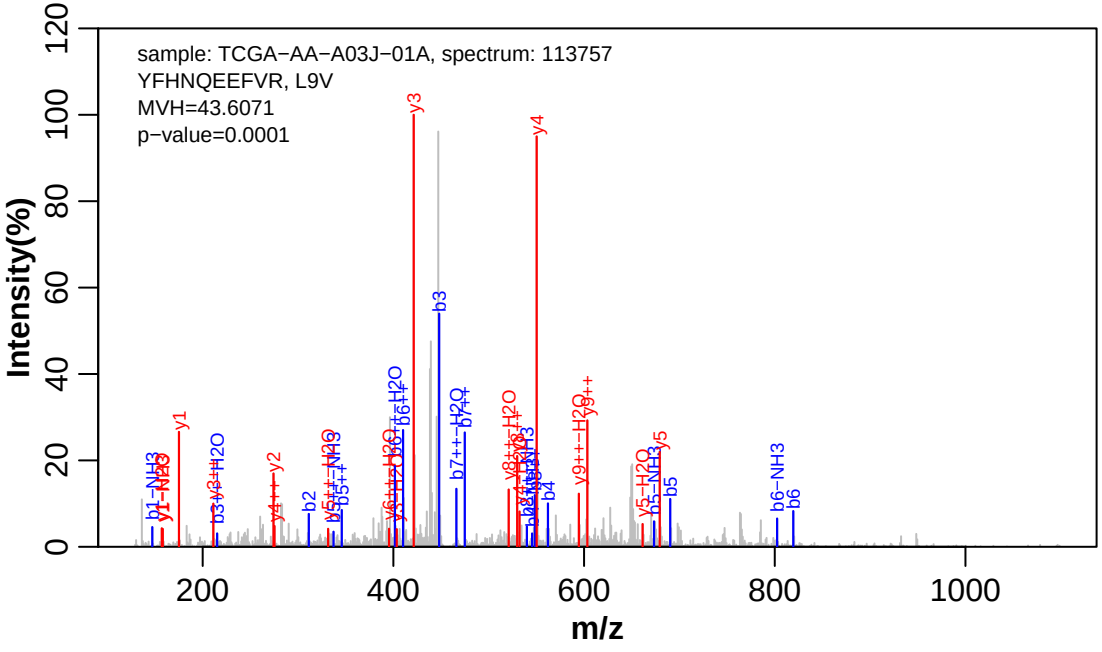

sample: TCGA−AA−A03J−01A, spectrum: 45025
TYGQVSGEALK, D2Y
MVH=42.3570
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
b4
y5
b5
y6
b6
y7
b8−H2O
b8−NH3
y8
y9
b9
b10−H2O
b10

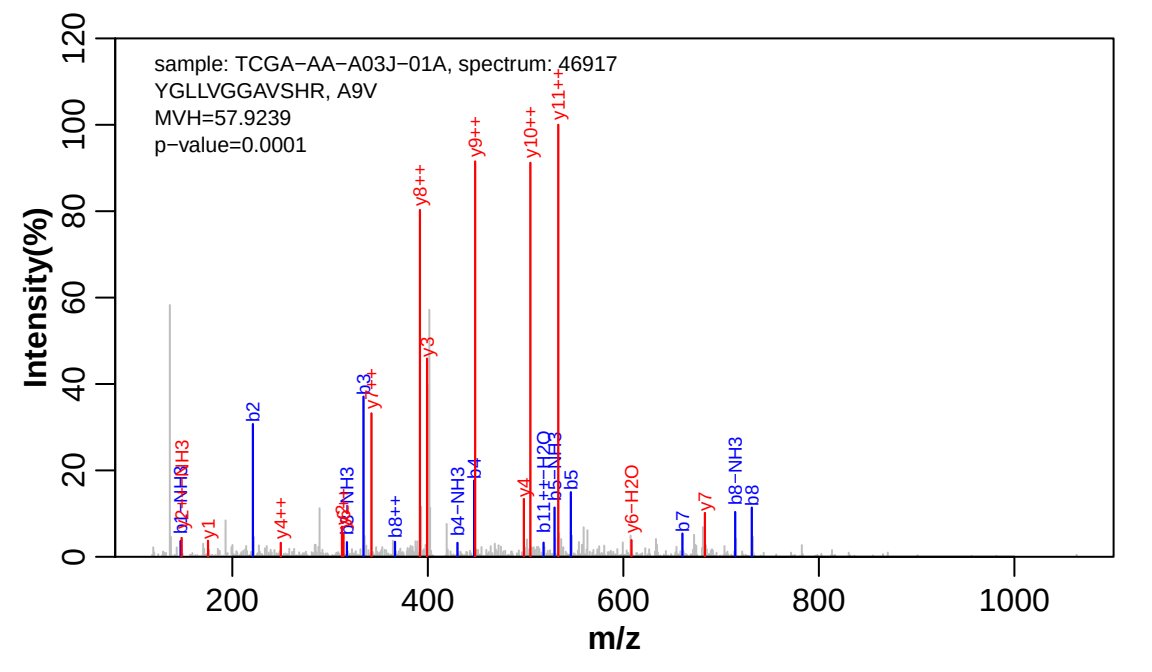

sample: TCGA−AA−A03J−01A, spectrum: 68107
VLSTTNAER, D6N
MVH=35.9993
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y4
y5
b6−H2O
y6
y7

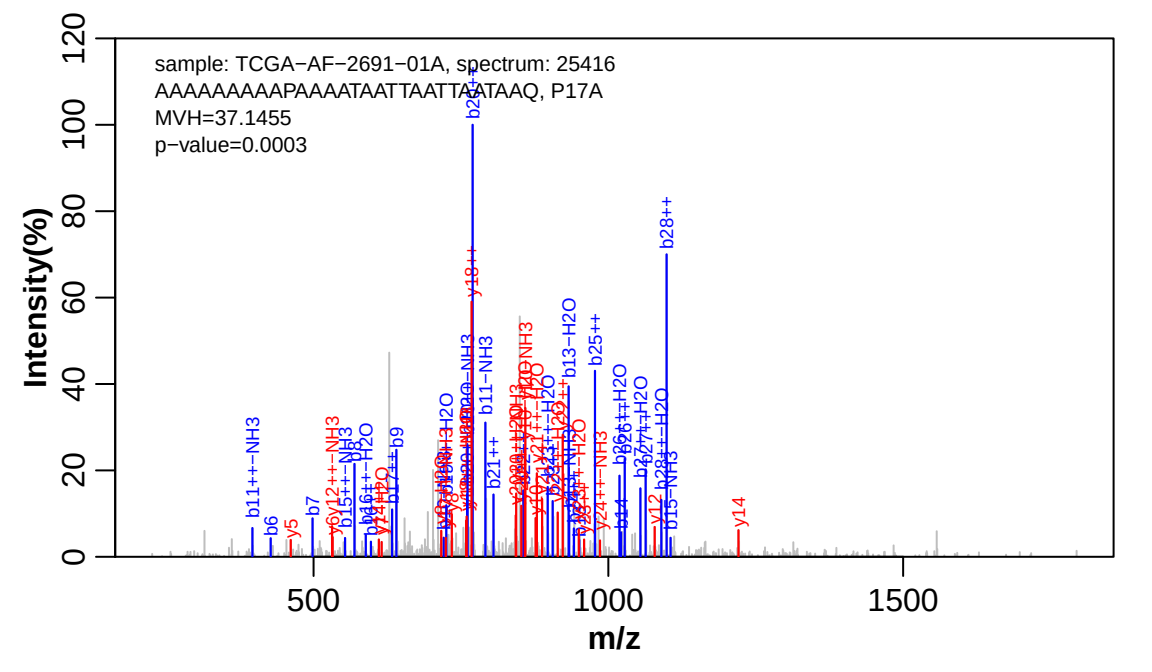

sample: TCGA−AA−A03J−01A, spectrum: 116886
VPSFETAEGLGAELK, T12A
MVH=63.9623
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2−H2O
y2
b3
y4
b5−NH3
b5
y5
y7
y8−H2O
y8
b8−H2O
b8
y9
b9
y10
b10−H2O
b10
b11−H2O
y11
b12−H2O
b12
y12
b13
y13
b14−H2O
b14

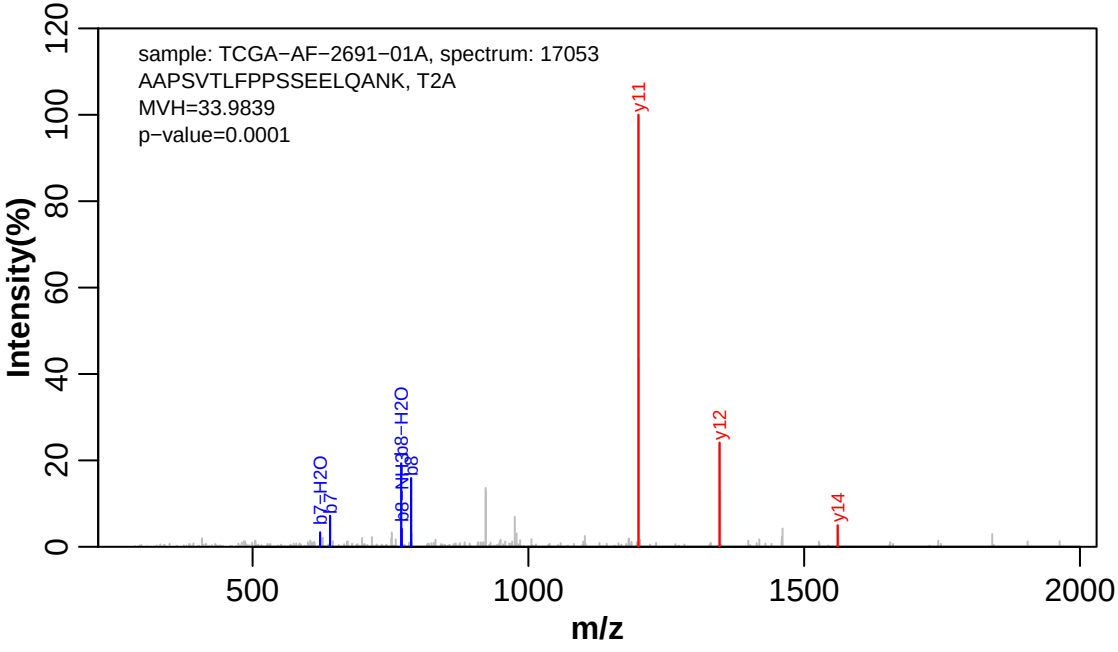

sample: TCGA−AA−A03J−01A, spectrum: 51696
VPVTQATR, L3V
MVH=49.1024
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
y4
b5
y5
y6
y7

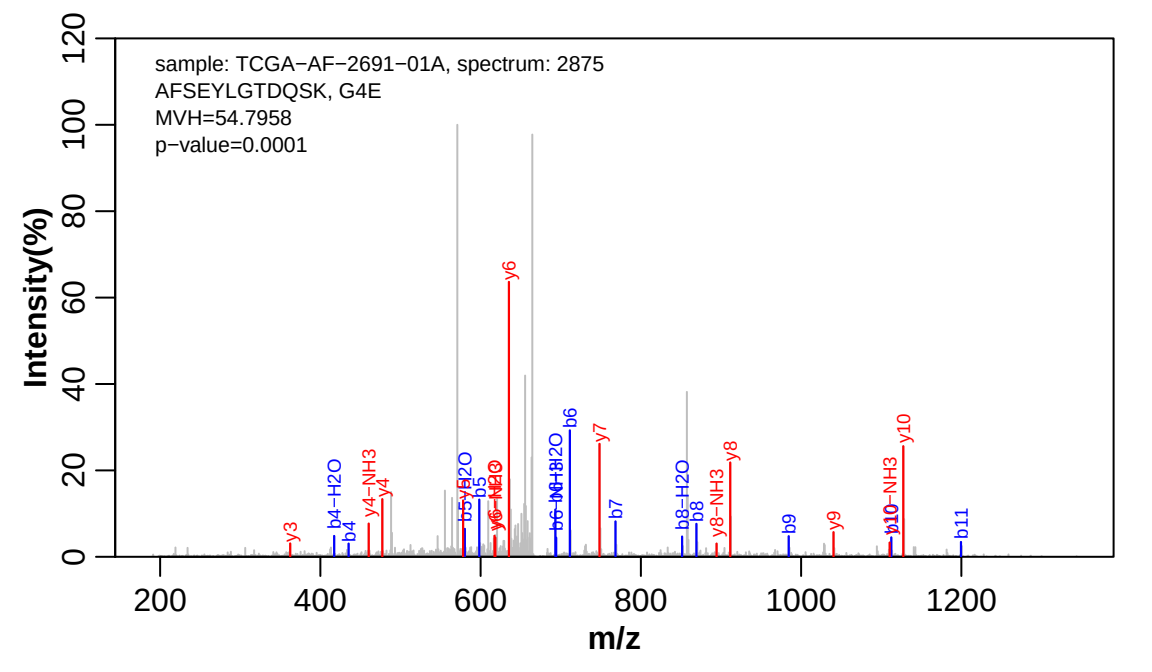

sample: TCGA−AA−A03J−01A, spectrum: 75107
VQLPTESLQELLDLHR, T7S
MVH=25.2824
p−value=0.0001
Intensity(%)
m/z
b2−NH3
b2
b3
y10++
y11++
y13++−H2O
y13++
y14++
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

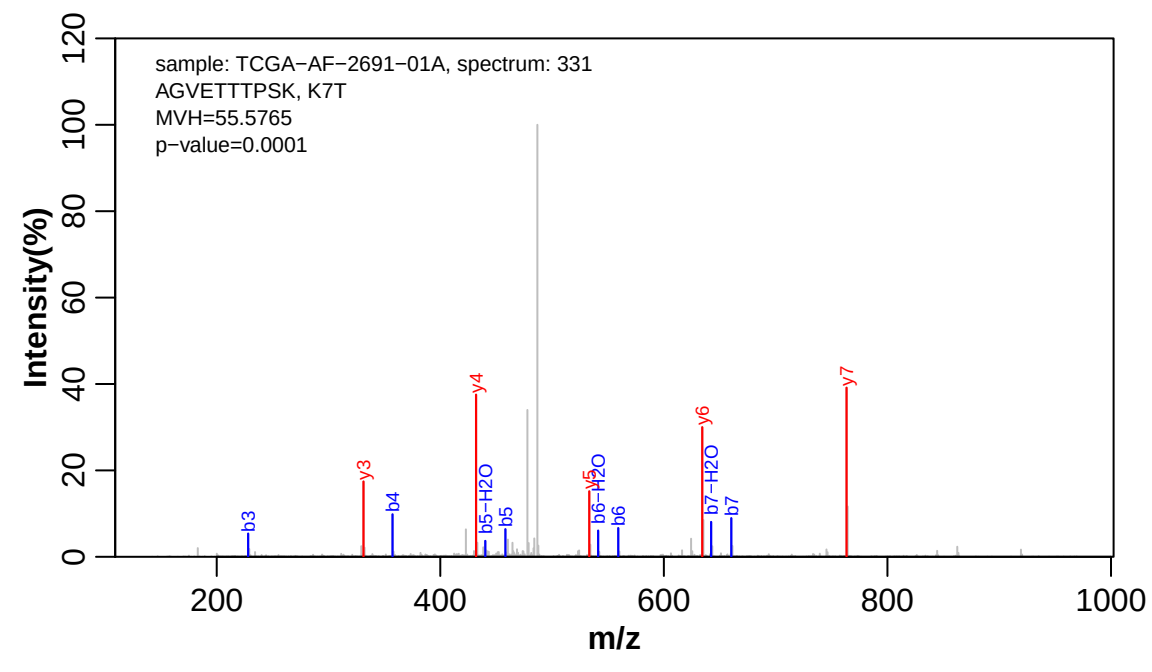

sample: TCGA−AA−A03J−01A, spectrum: 113757
YFHNQEEFVR, L9V
MVH=43.6071
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y3
y4
b3
y1
b2
b4
b5
b6
y5
b1−NH3
y1−NH3
b3−H2O
y4++−y2
b5++−NH3
b6+−H2O
b7++−H2O
b7+−H2O
y9++−H2O
y9++
y5−H2O
y5−NH3
b6−NH3

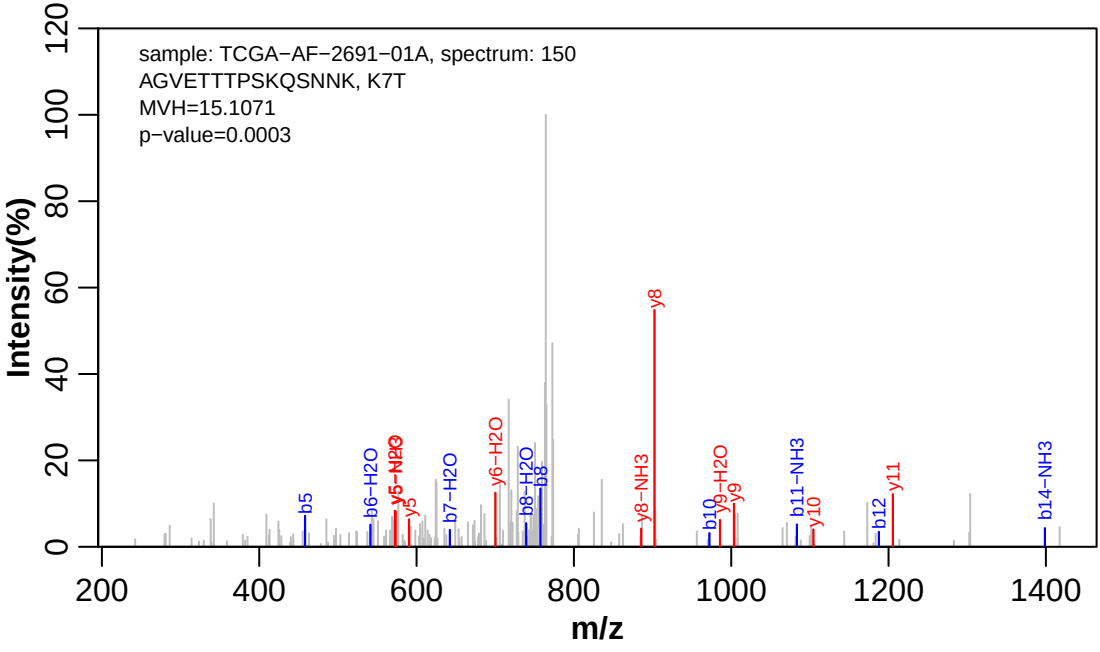

sample: TCGA−AA−A03J−01A, spectrum: 46917
YGLLVGGAVSHR, A9V
MVH=57.9239
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y11++
y10++
y9++
y8++
y3
b2
y4++
b8++
b4−NH3
b4
y4
b5
b11++−H2O
b5−NH3
y6−H2O
b7
y7
b8−NH3
b8

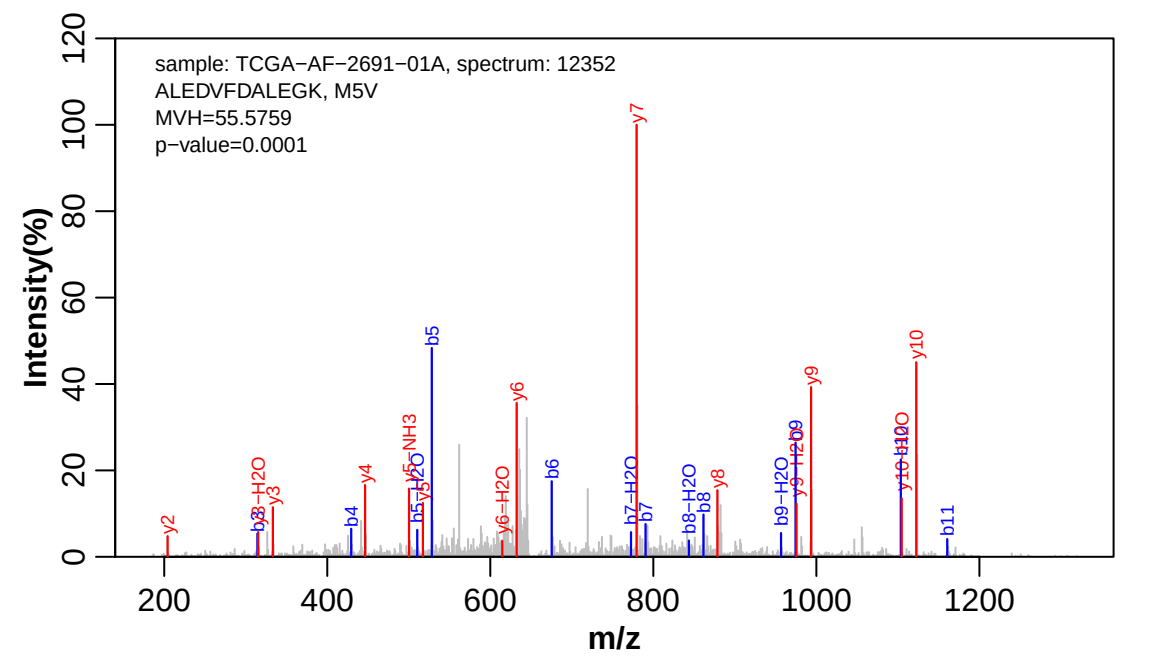

sample: TCGA−AF−2691−01A, spectrum: 25416
AAAAAAAAAPAAAATAATTAATTATAAQ, P17A
MVH=37.1455
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
y18++
b11−NH3
b13−H2O
b25++
b28++
b11++−NH3
b6
y5
b7
y6/y12++−NH3
b15++−NH3
b8
b16++−H2O
y14++H2O
b17++
b9
b21++
y24++−NH3
b26++H2O
b27++H2O
y12
b24++−H2O
b15−NH3
y14

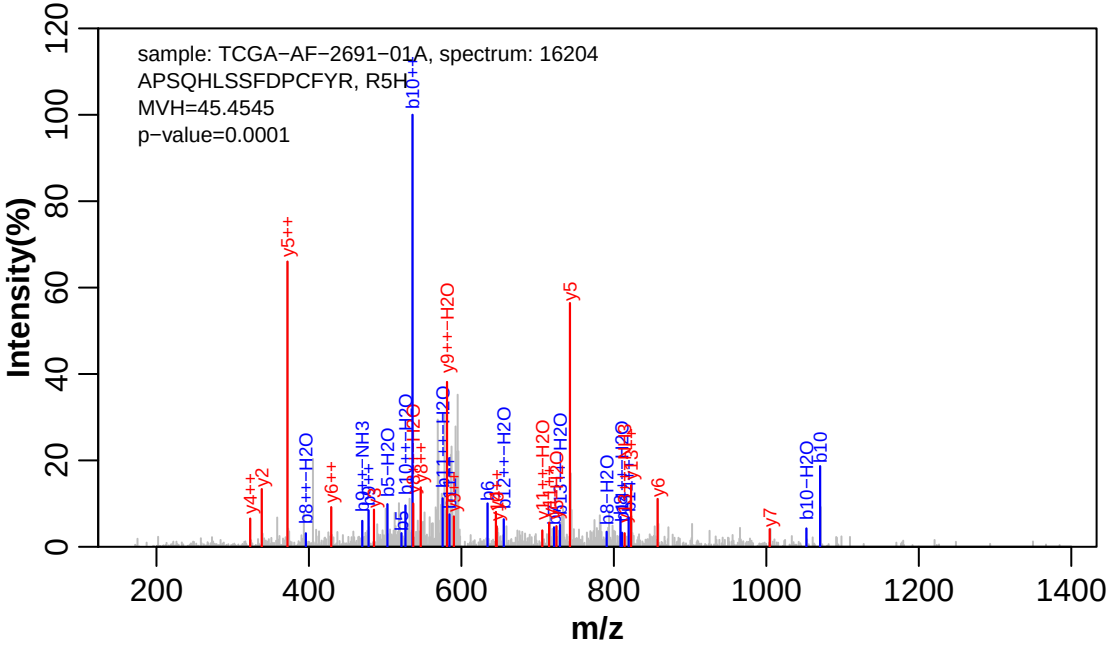

sample: TCGA−AF−2691−01A, spectrum: 17053
AAPSVTLFPPSSEELQANK, T2A
MVH=33.9839
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

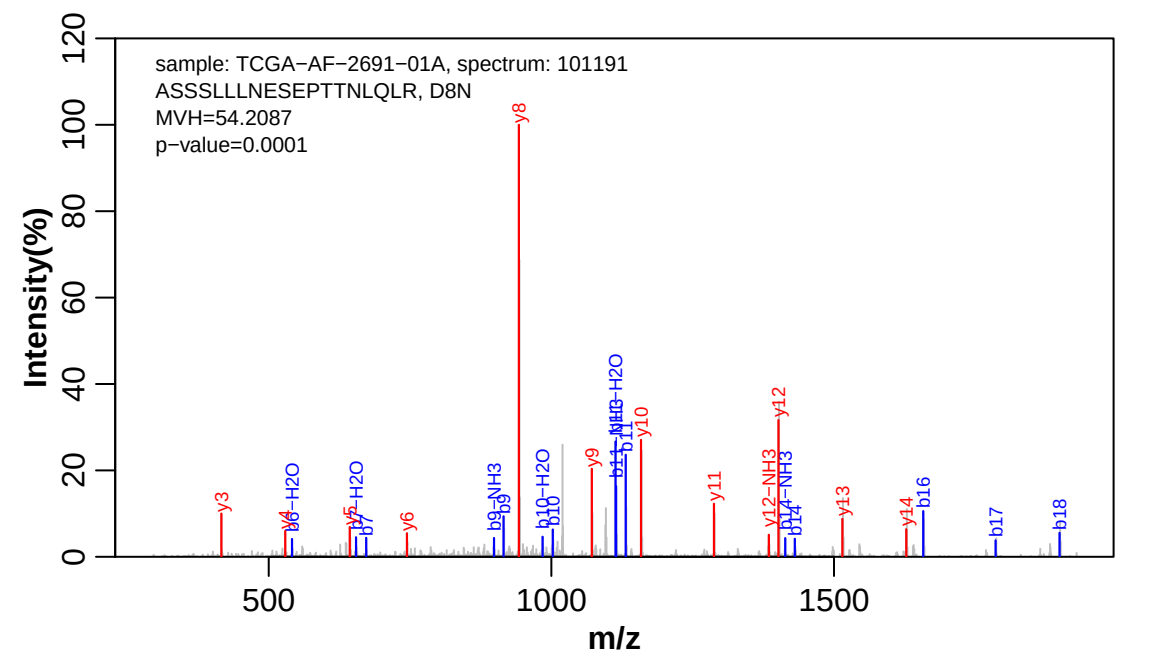

sample: TCGA−AF−2691−01A, spectrum: 2875
AFSEYLGTDQSK, G4E
MVH=54.7958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y6
b6
y7
b7
b8−H2O
b8
y8−NH3
y8
b9
y9
y10−NH3
y10
b11

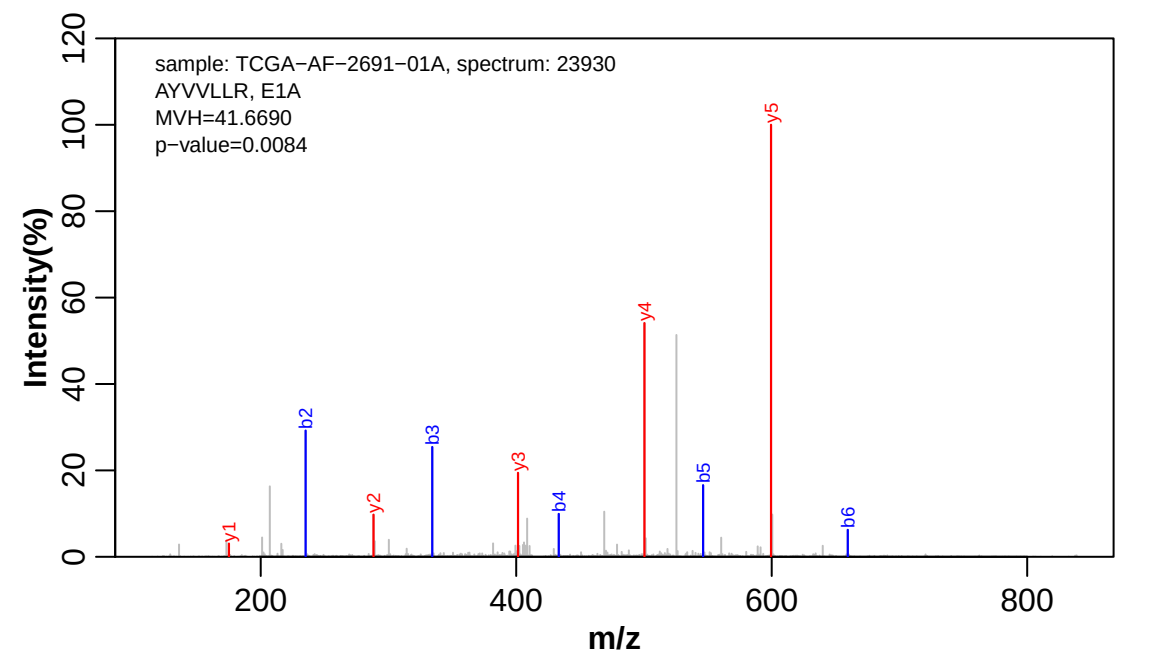

sample: TCGA−AF−2691−01A, spectrum: 331
AGVETTTPSK, K7T
MVH=55.5765
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

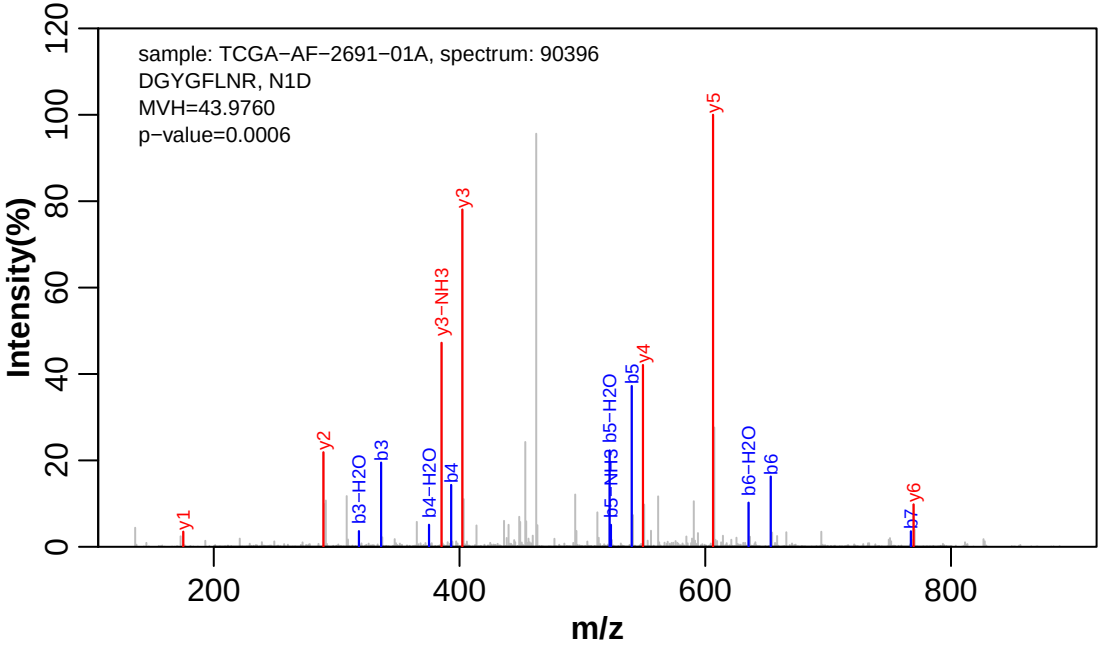

sample: TCGA−AF−2691−01A, spectrum: 150
AGVETTTPSKQSNNK, K7T
MVH=15.1071
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5
b6−H2O
y5−NH3
y5
b7−H2O
y6−H2O
b8−H2O
b8
y8
y8−NH3
b10
y9−H2O
y9
b11−NH3
y10
b12
y11
b14−NH3

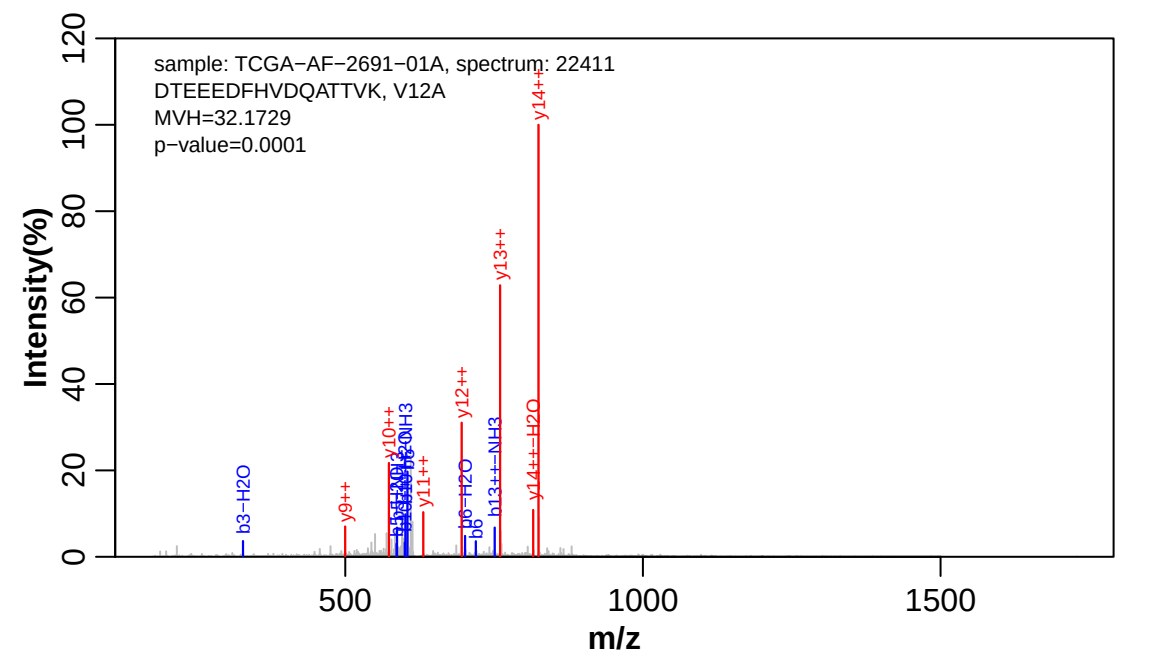

sample: TCGA−AF−2691−01A, spectrum: 12352
ALEDVFDALEGK, M5V
MVH=55.5759
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
b5−H2O
y5−NH3
y5−H2O
b5
y6−H2O
y6
b6
b7−H2O
b7
b8−H2O
b8
y8
b9−H2O
y9−H2O
y9
y10−H2O
y10
b11

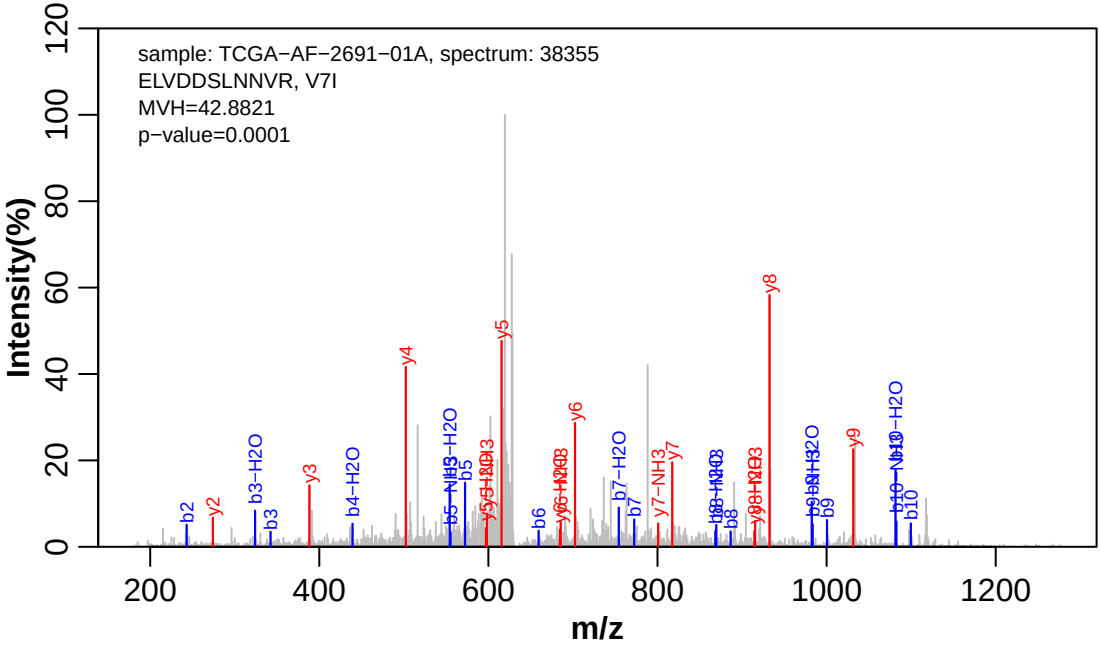

sample: TCGA−AF−2691−01A, spectrum: 16204
APSQHLSSFDPCFYR, R5H−
MVH=45.4545
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10++
y5++
y9++−H2O
y5
y4++
y2
b8++−H2O
y6++
b9++−NH3
b5−H2O
y6
y7
b10−H2O
b10

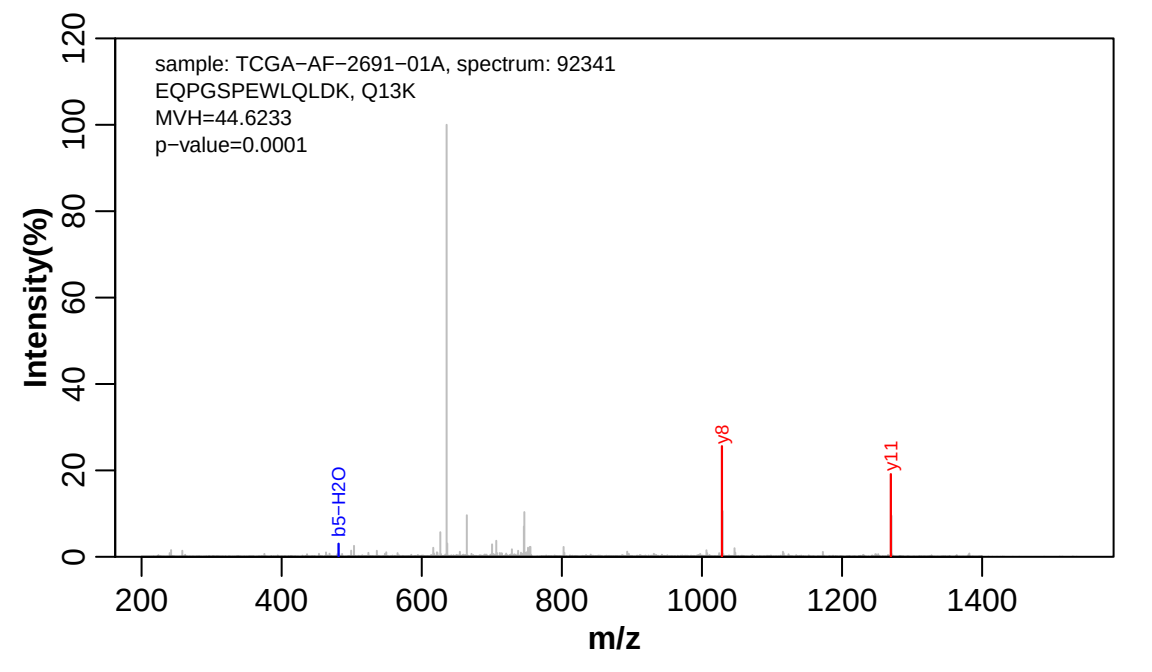

sample: TCGA−AF−2691−01A, spectrum: 101191
ASSSLLLNESEPTTNLQLR, D8N
MVH=54.2087
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6−H2O
y5
b7−H2O
b7
y6
b9−NH3
b9
b10−H2O
b10
y8
y9
b11−NH3
b11
b12−H2O
y10
y11
y12−NH3
y12
b14−NH3
b14
y13
y14
b16
b17
b18

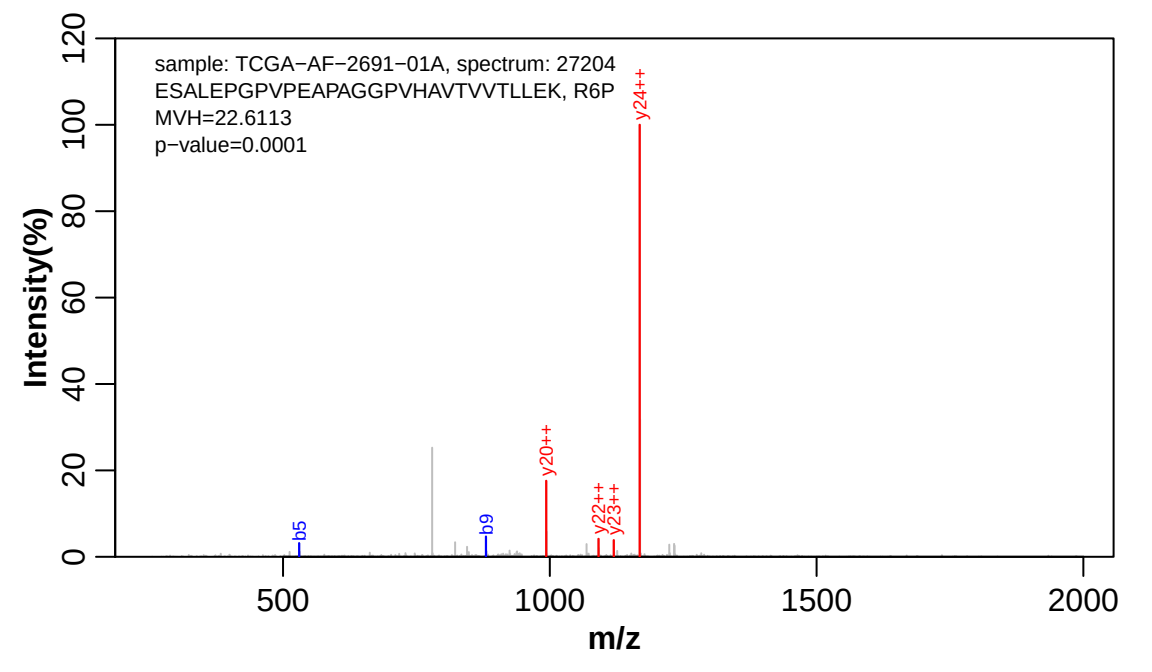

sample: TCGA−AF−2691−01A, spectrum: 23930
AYVVLLR, E1A
MVH=41.6690
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

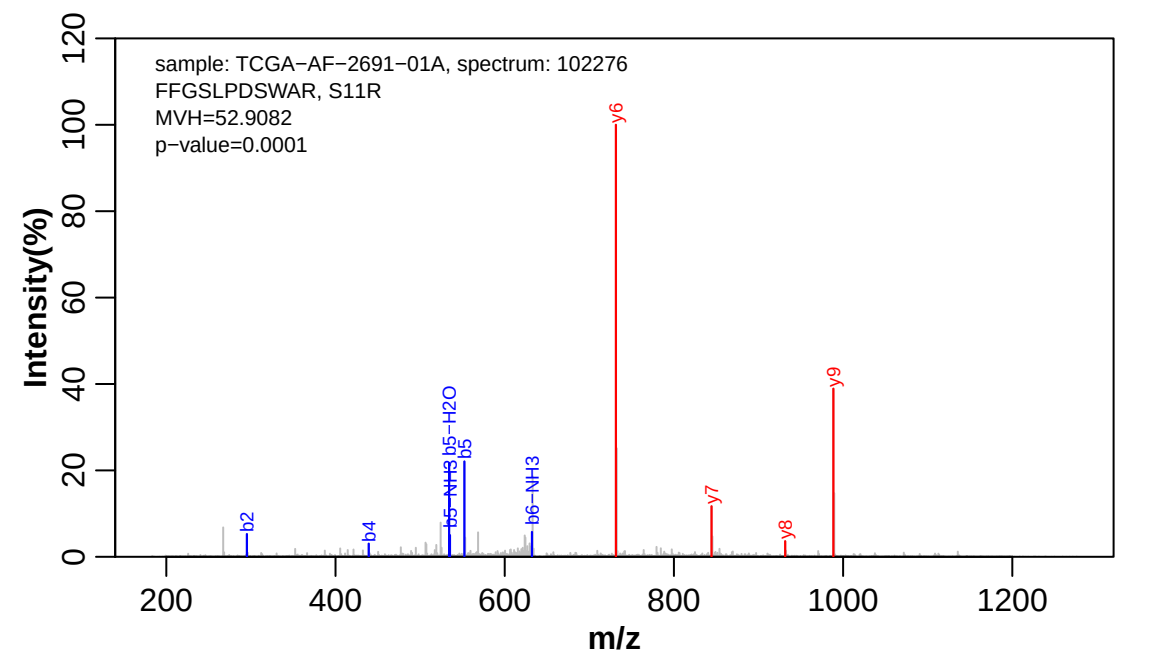

sample: TCGA−AF−2691−01A, spectrum: 90396
DGYGFLNR, N1D
MVH=43.9760
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

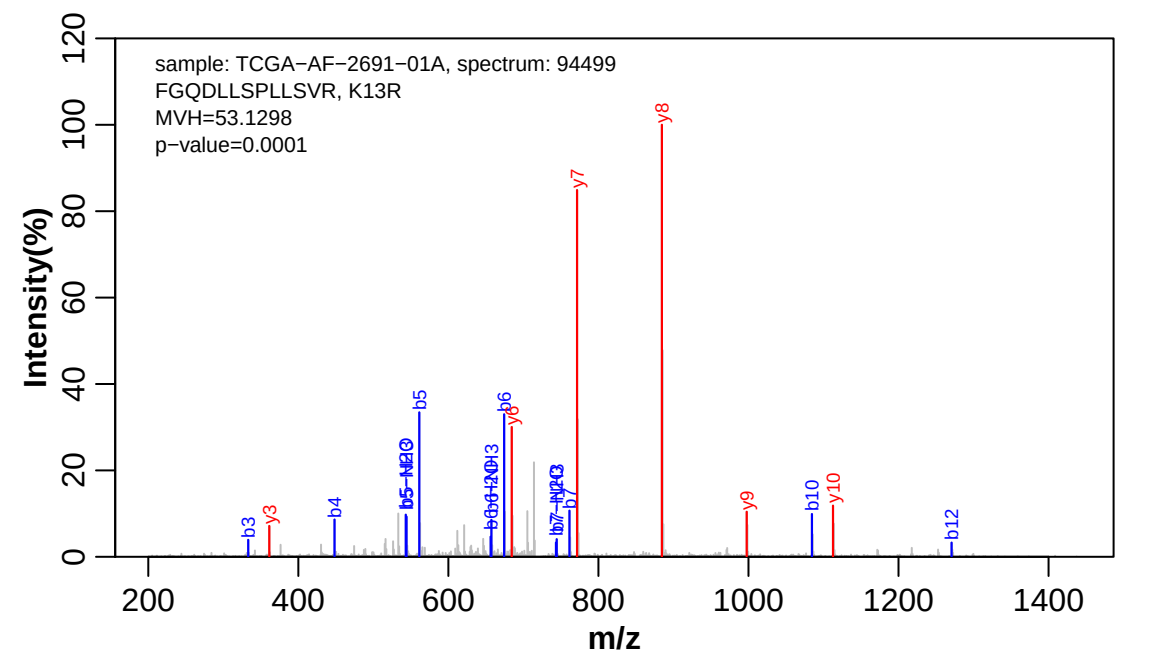

sample: TCGA−AF−2691−01A, spectrum: 22411
DTEEEDFHVDQATTVK, V12A
MVH=32.1729
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y9++
y10++
y11++
y12++
b6−H2O
b6
b13++−NH3
y13++
y14++−H2O
y14++

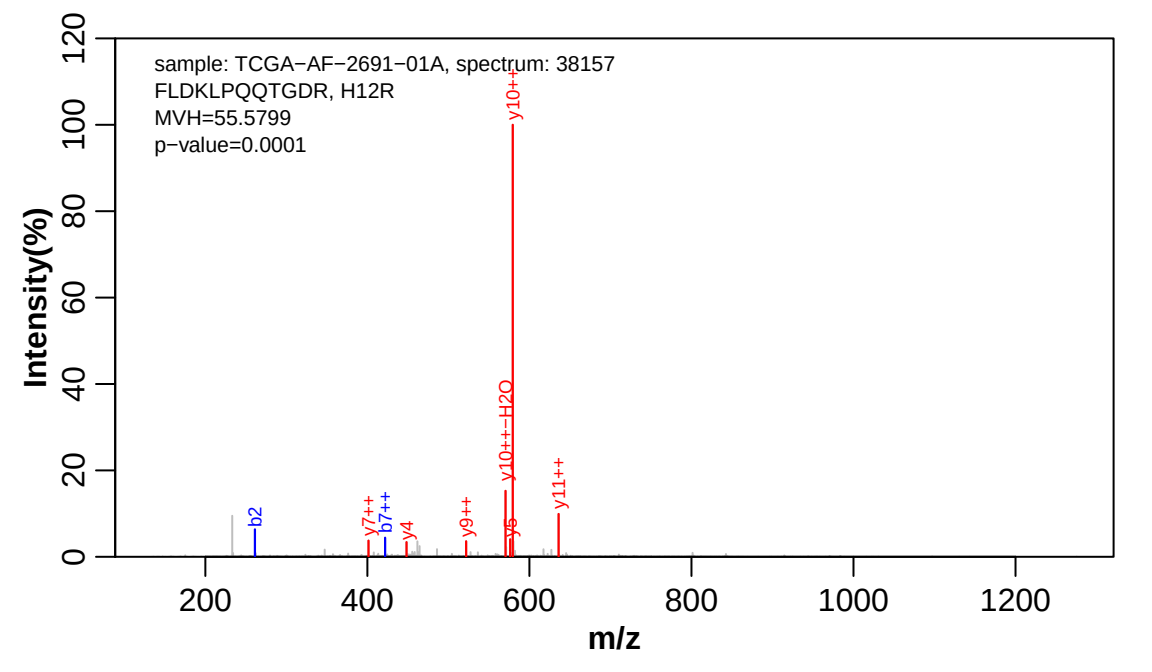

sample: TCGA−AF−2691−01A, spectrum: 38355
ELVDDSLNNVR, V7I
MVH=42.8821
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7−NH3
y7
y8
y9
b9
b10−H2O
b10

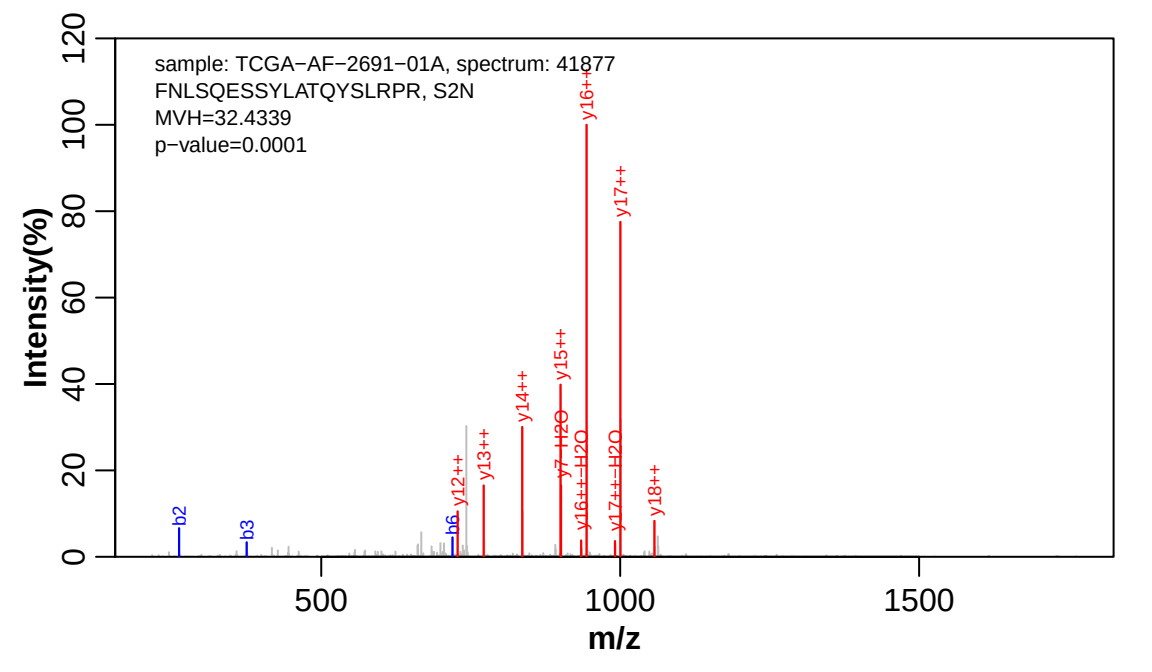

sample: TCGA−AF−2691−01A, spectrum: 92341
EQPGSPEWLQLDK, Q13K
MVH=44.6233
p−value=0.0001
b5−H2O
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

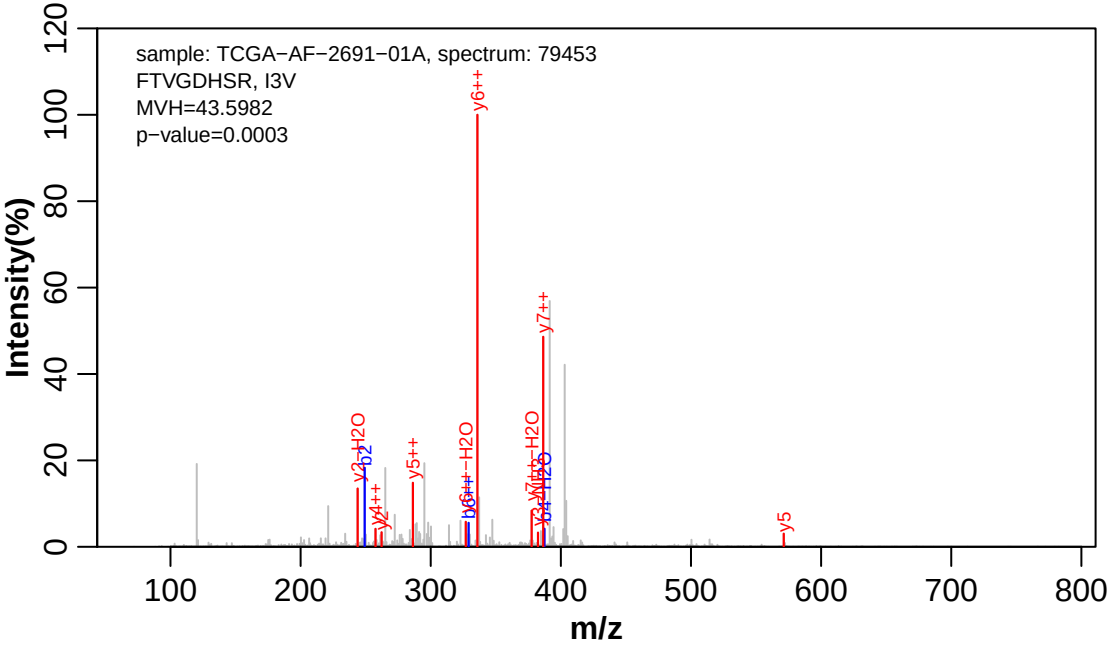

sample: TCGA−AF−2691−01A, spectrum: 27204
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=22.6113
p−value=0.0001
y24++
y20++
y22++
y23++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

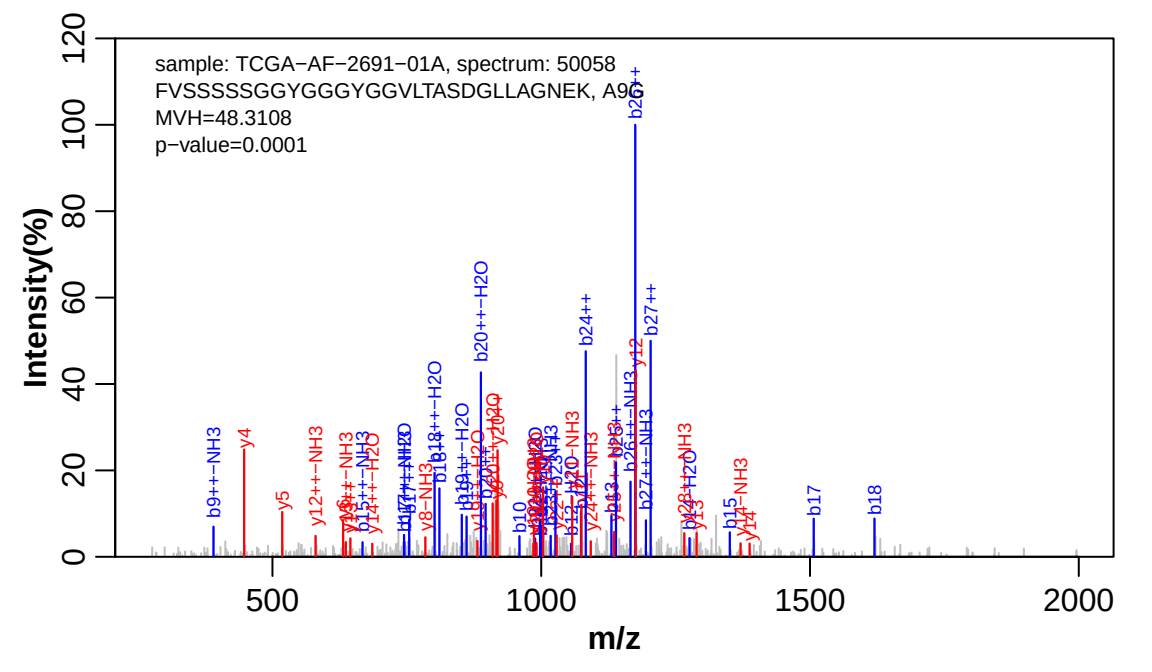

sample: TCGA−AF−2691−01A, spectrum: 102276
FFGSLPDSWAR, S11R
MVH=52.9082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
b5−NH3
b5−H2O
b5
b6−NH3

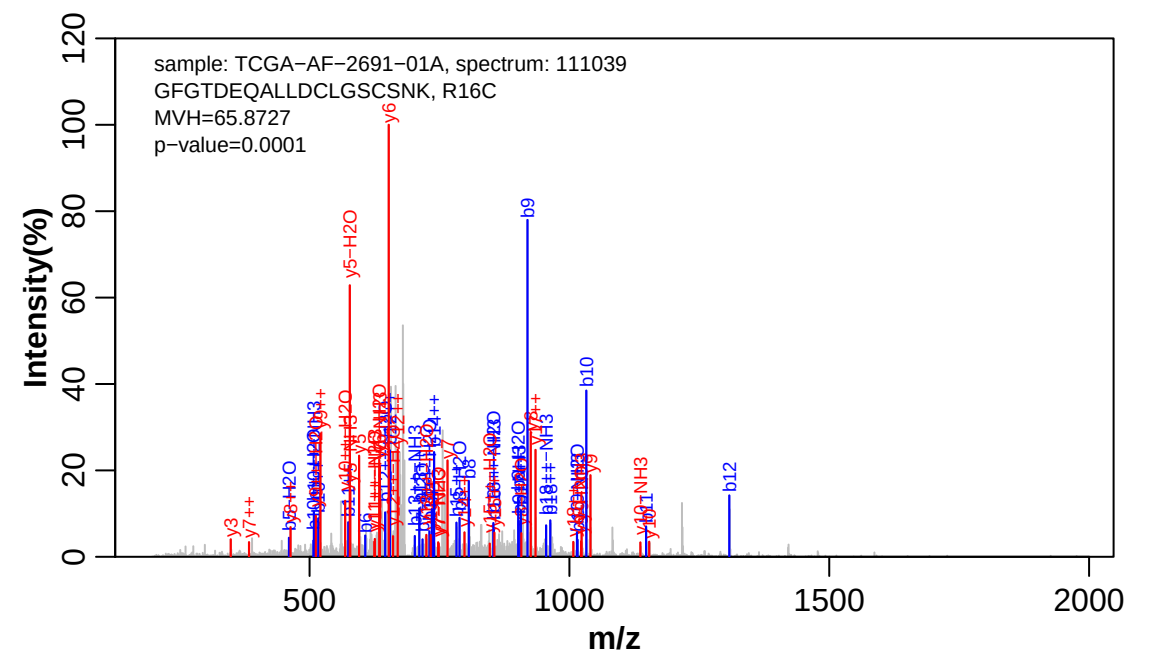

sample: TCGA−AF−2691−01A, spectrum: 94499
FGQDLLSPLLSVR, K13R
MVH=53.1298
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
b5
b6
y6
y7
y8
y9
b10
y10
b12

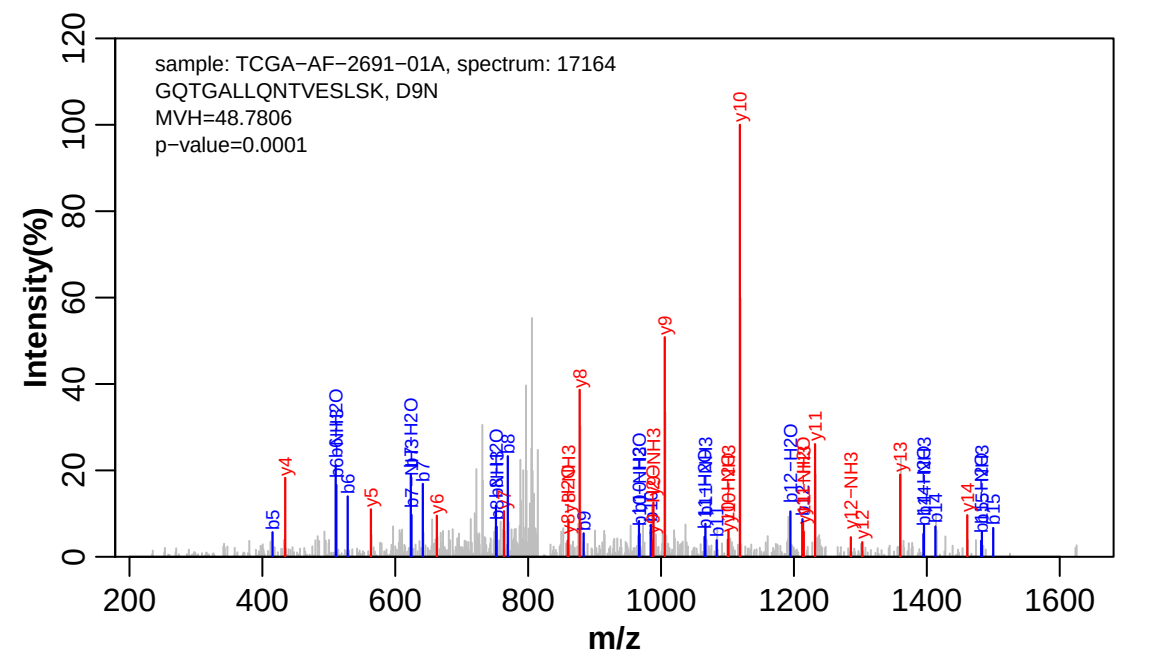

sample: TCGA−AF−2691−01A, spectrum: 38157
FLDKLPQQTGDR, H12R
MVH=55.5799
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y7++
b7++
y4
y9++
y5
y10++−H2O
y10++
y11++

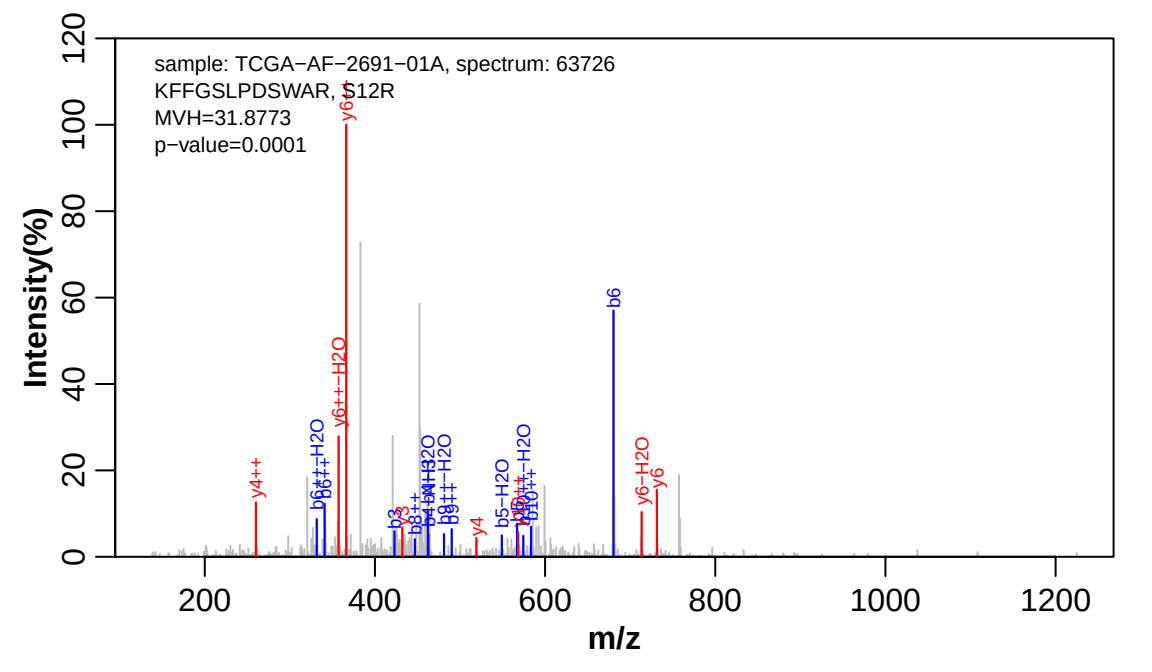

sample: TCGA−AF−2691−01A, spectrum: 41877
FNLSQESSYLATQYSLRPR, S2N
MVH=32.4339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b6
y12++
y13++
y14++
y15++
y7−H2O
y16++−H2O
y16++
y17++−H2O
y17++
y18++

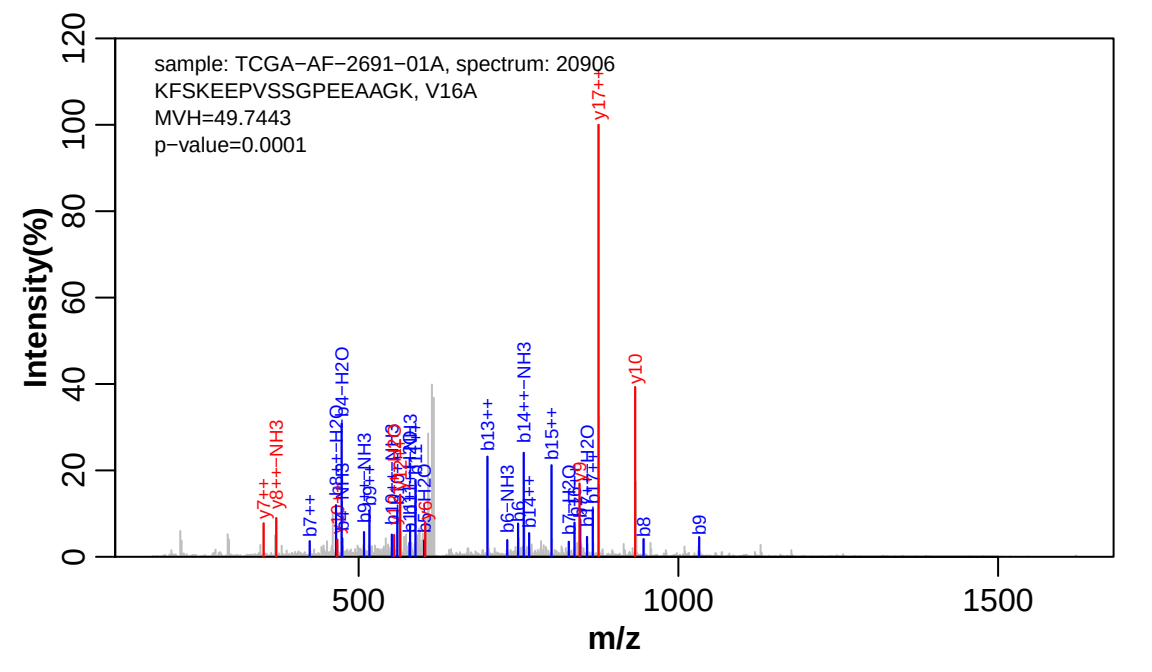

sample: TCGA−AF−2691−01A, spectrum: 79453
FTVGDHSR, I3V
MVH=43.5982
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
y5++
y5
b2
y4++
y3++−H2O
b6++−H2O
y7++−H2O
y4++−H2O

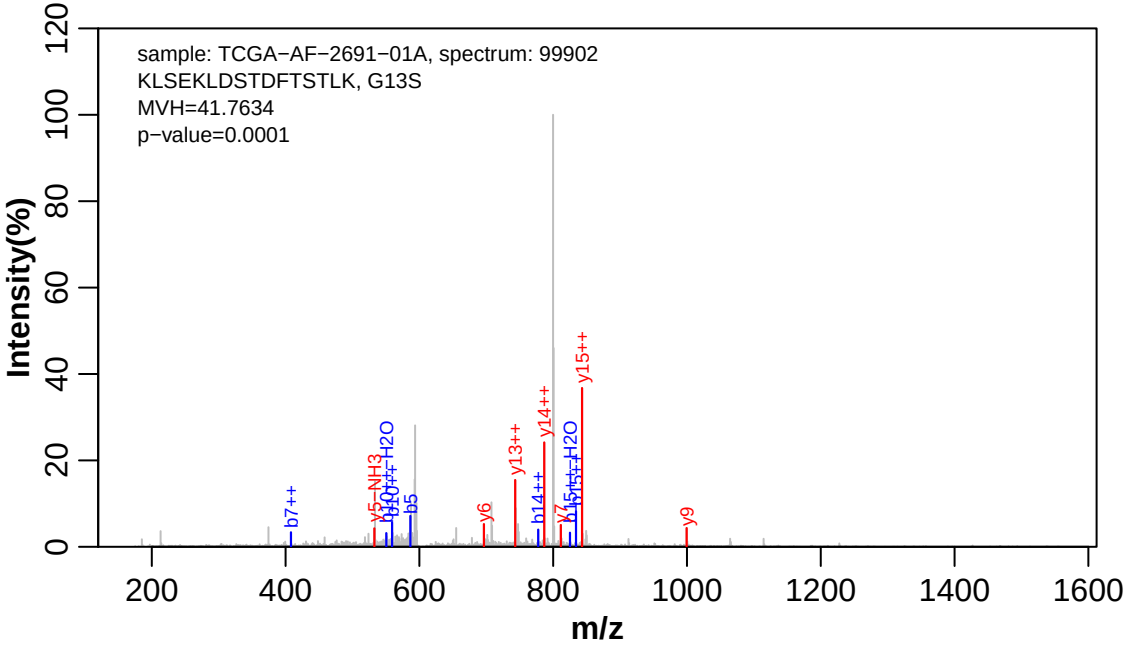

sample: TCGA−AF−2691−01A, spectrum: 50058
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=48.3108
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y12++−NH3
b20++−H2O
b24++
b27++
b26++
y12
b17
b18
y14−NH3
b15

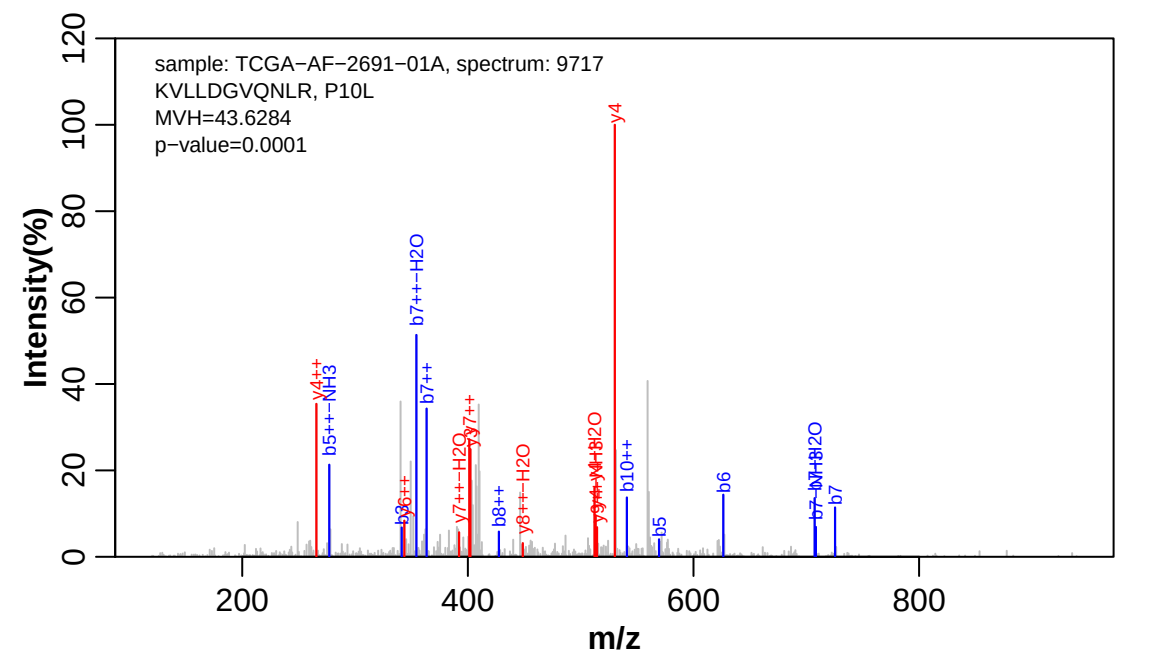

sample: TCGA−AF−2691−01A, spectrum: 111039
GFGTDEQALLDCLGSCSNK, R16C
MVH=65.8727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
y5−H2O
b9
b10
b12
y3
y7++
b8−H2O
b8
y10−NH3
b18++−NH3

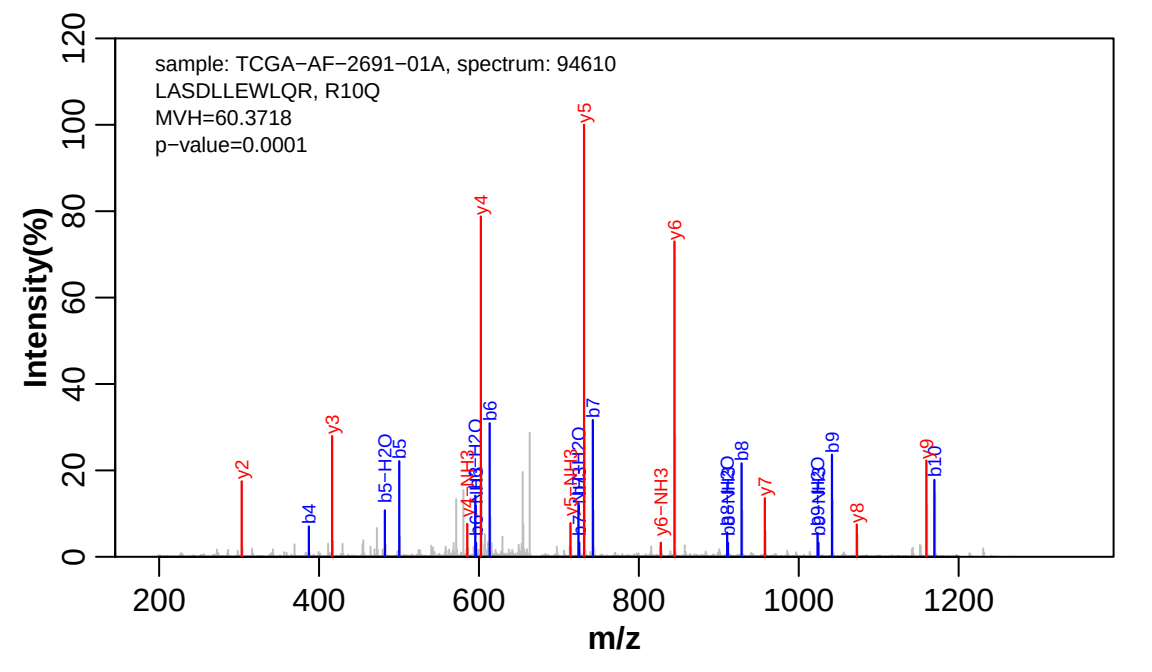

sample: TCGA−AF−2691−01A, spectrum: 17164
GQTGALLQNTVESLSK, D9N
MVH=48.7806
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y4
y5
y6
b5
b6
b7
b8
b9
b14
b15

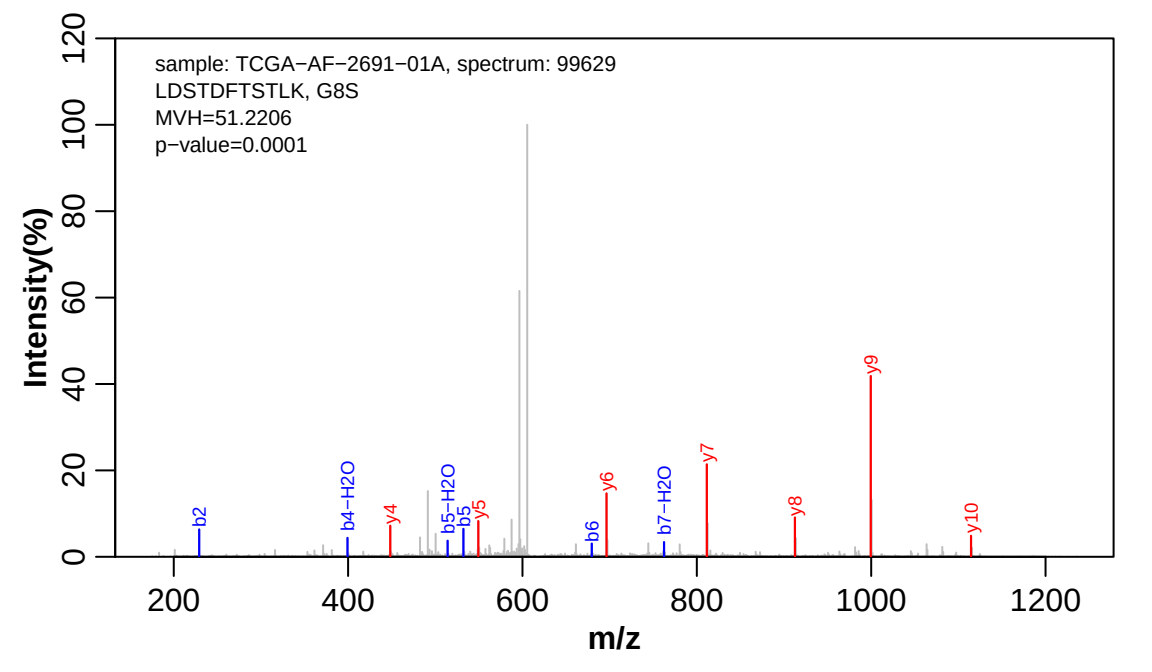

sample: TCGA−AF−2691−01A, spectrum: 63726
KFFGSLPDSWAR, S12R
MVH=31.8773
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++
y6++−H2O
y4++
b6++−H2O
b6++
b6
y6−H2O
y6
y4
b5−H2O
b3
b3++
b9++−H2O
b9++
b10++−H2O
b10++

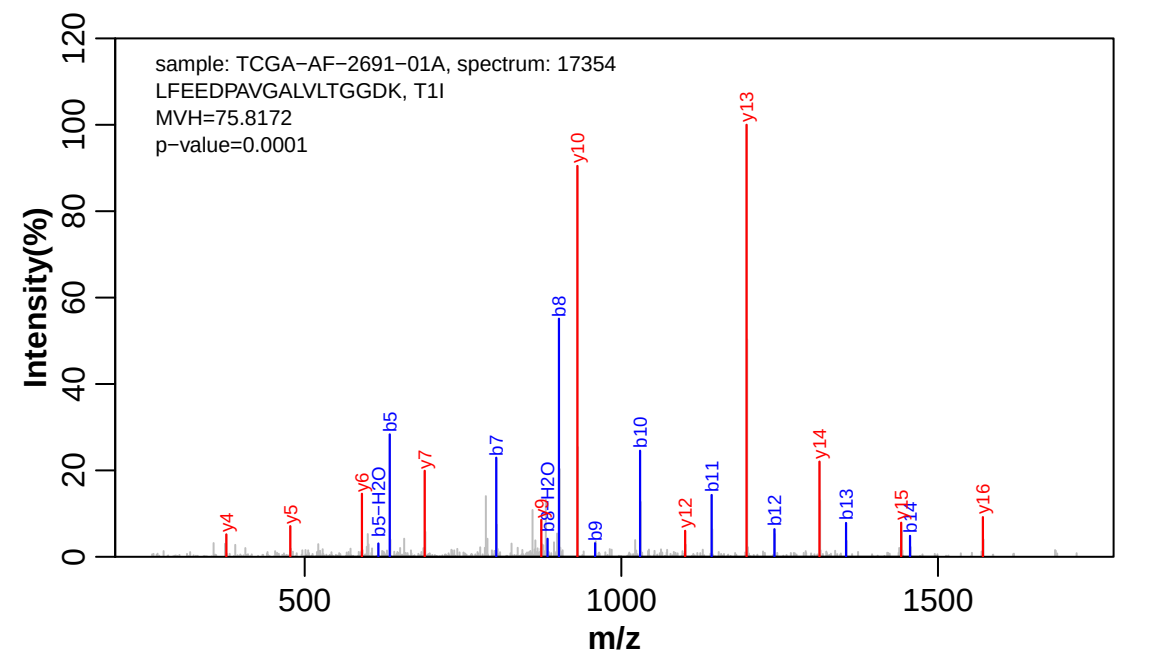

sample: TCGA−AF−2691−01A, spectrum: 20906
KFSKEEPVSSGPEEAAGK, V16A
MVH=49.7443
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y10
y8++−NH3
y7++
b7++
b13++
b14++−NH3
b15++
b14++
b8
b9

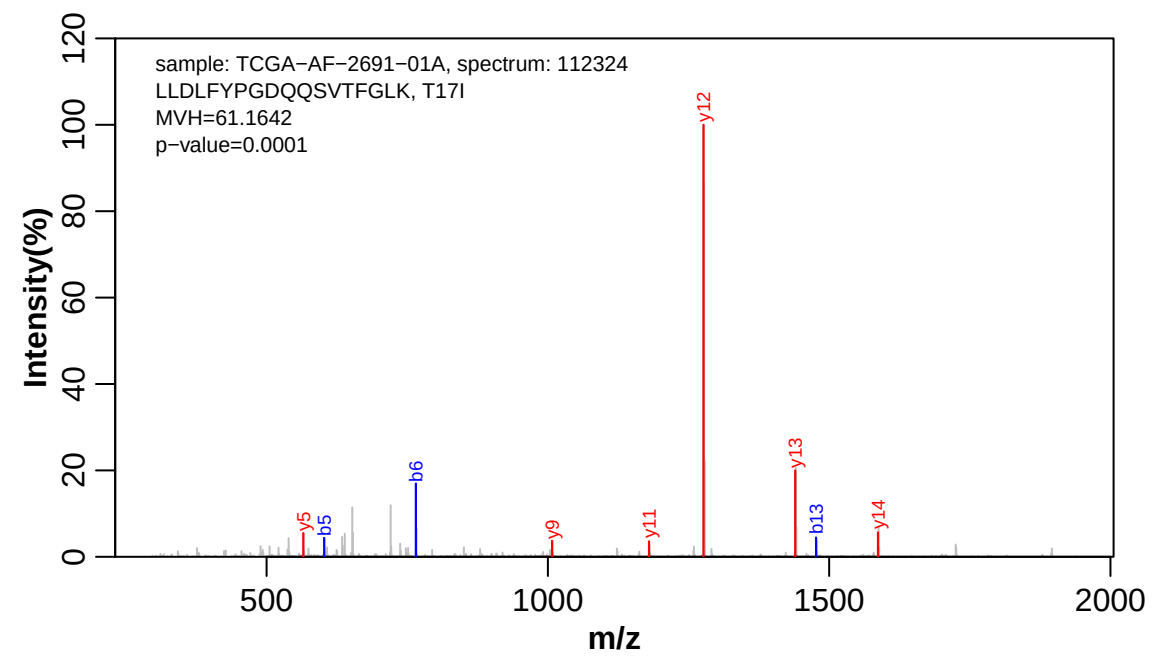

sample: TCGA−AF−2691−01A, spectrum: 99902
KLSEKLDSTDFTSTLK, G13S
MVH=41.7634
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b7++
y5−NH3
b10++−H2O
b10++
b5
y6
y13++
b14++
y14++
y7
b15++−H2O
y15++
y9

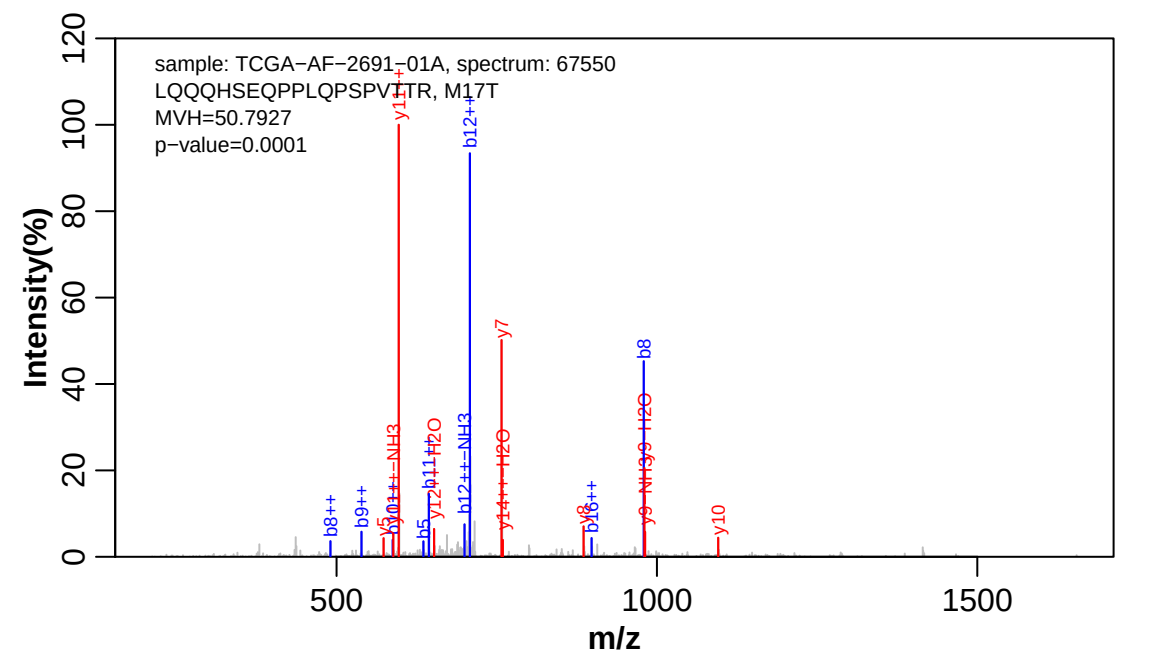

sample: TCGA−AF−2691−01A, spectrum: 9717
KVLLDGVQNLR, P10L
MVH=43.6284
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y4
b7++−H2O
y4++
b5++−NH3
b7++
y7++
y7++−H2O
b6++
b8++
y8++−H2O
y4++−H2O
b10++
b5
b6
b7++−H2O
b7

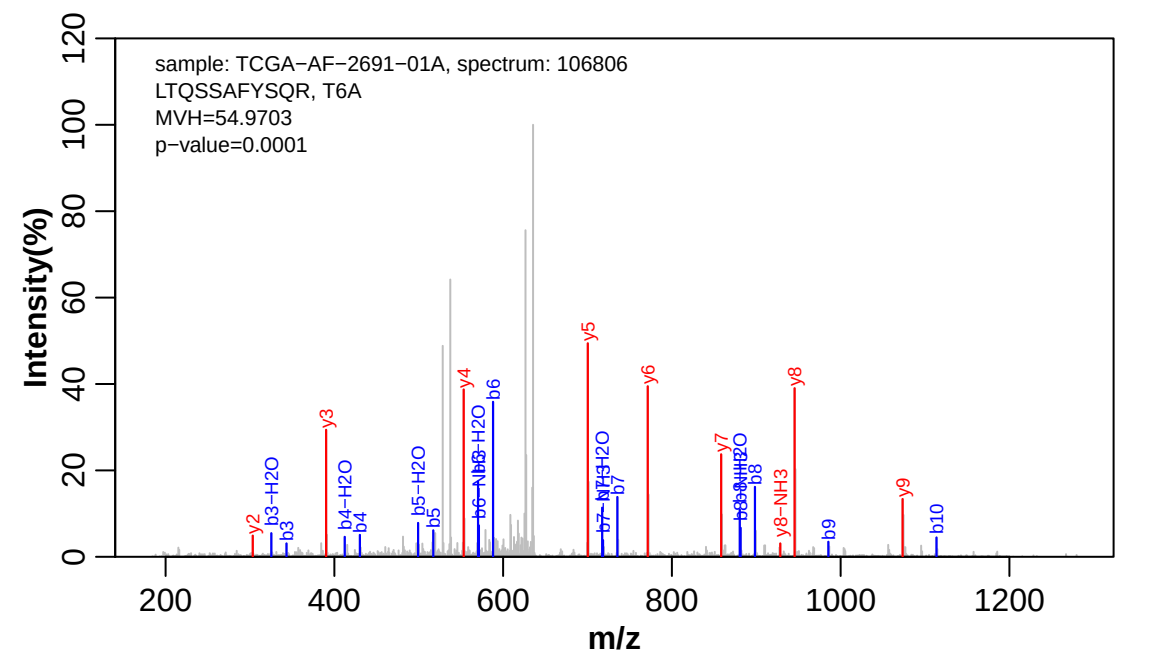

sample: TCGA−AF−2691−01A, spectrum: 94610
LASDLLEWLQR, R10Q
MVH=60.3718
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b4
y3
b5−H2O
b5
y4
y4−NH3
b6−NH3
b6−H2O
b6
y5
y5−NH3
b7−NH3
b7−H2O
b7
y6
y6−NH3
b8−NH3
b8−H2O
b8
y7
b9−NH3
b9−H2O
b9
y8
y9
b10

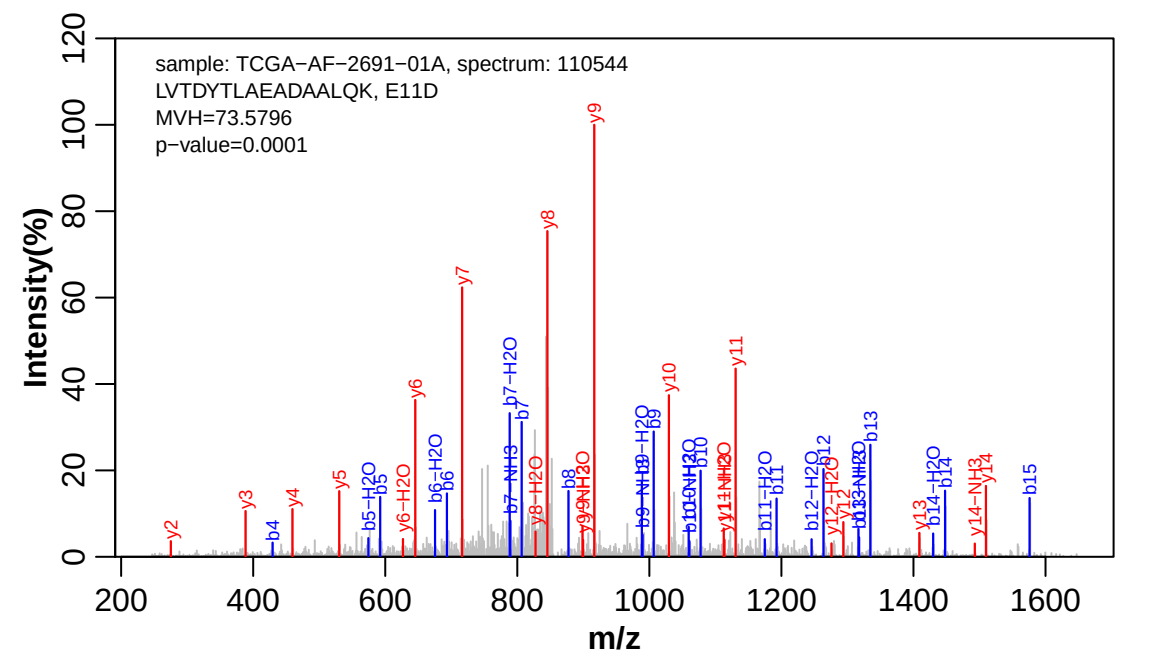

sample: TCGA−AF−2691−01A, spectrum: 99629
LDSTDFTSTLK, G8S
MVH=51.2206
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
y7
y8
y9
y10

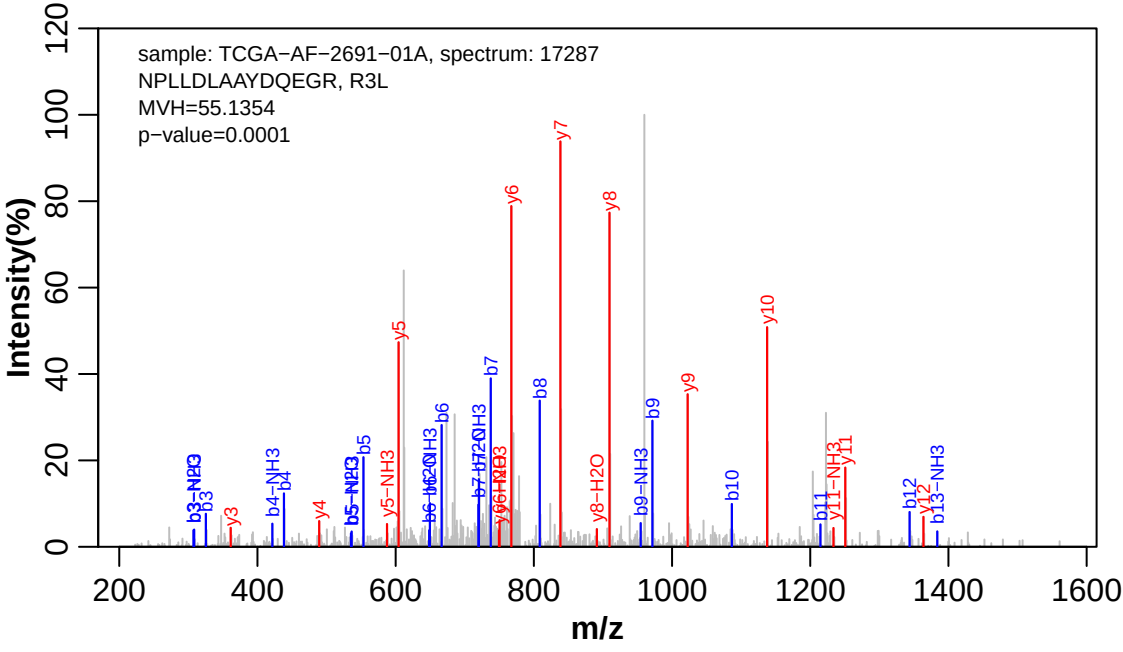

sample: TCGA−AF−2691−01A, spectrum: 17354
LFEEDPAVGALVLTGGDK, T1I
MVH=75.8172
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
b5−H2O
b5
y7
b7
b8−H2O
b8
y9
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

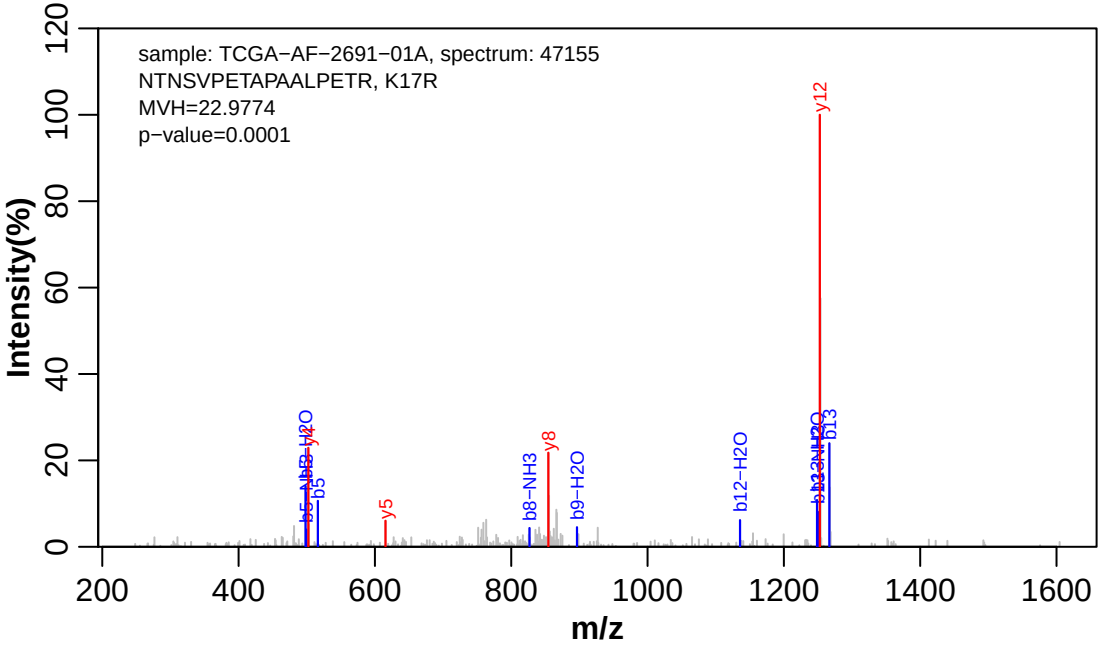

sample: TCGA−AF−2691−01A, spectrum: 112324
LLDLFYPGDQQSVTFGLK, T17I
MVH=61.1642
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y12
y13
b6
y5
b5
y9
y11
b13
y14

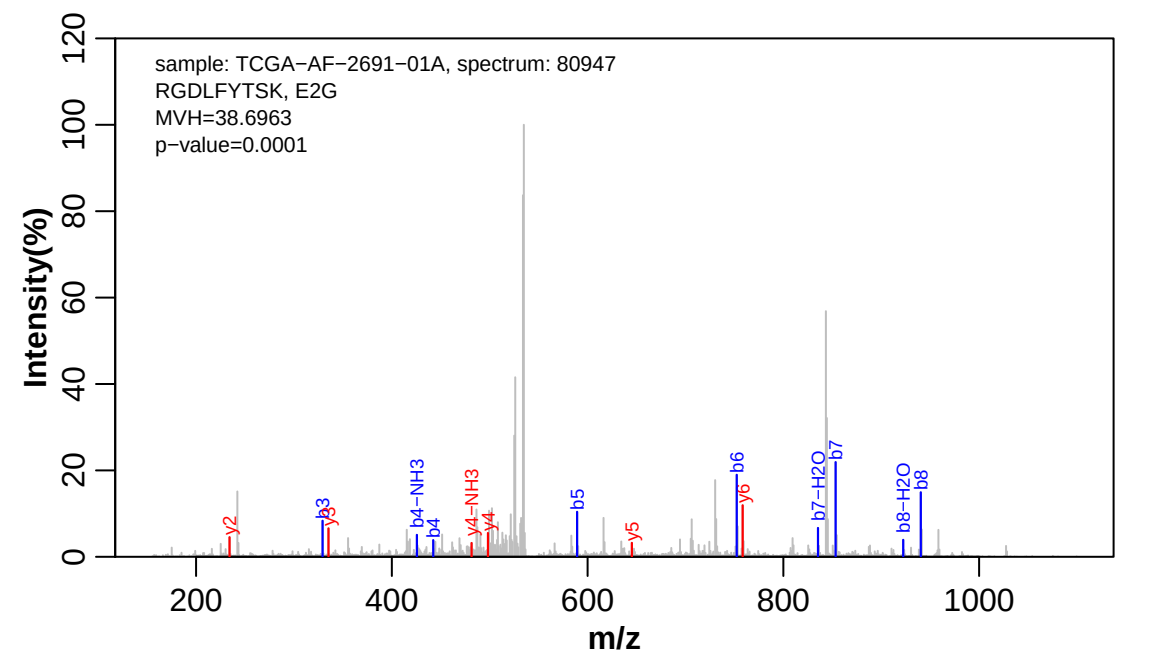

sample: TCGA−AF−2691−01A, spectrum: 67550
LQQQHSEQPPLQPSPVTTR, M17T
MVH=50.7927
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7
b8
y9−NH3
y9−H2O
y14++−H2O
b12++−NH3
y11++−NH3
y11++−H2O
y12++−H2O
b8++
b9++
y5
b5
y8
b16++
y10

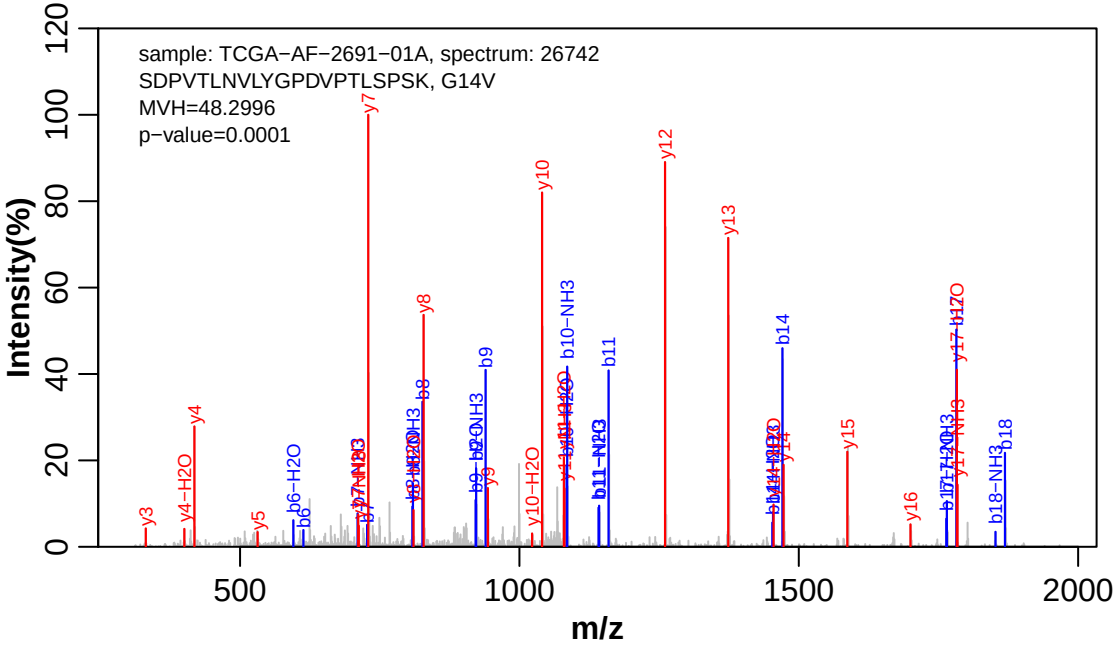

sample: TCGA−AF−2691−01A, spectrum: 106806
LTQSSAFYSQR, T6A
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O
b5
y4
b6
y5
y6
y7
b8
y8
y8−NH3
b9
y9
b10

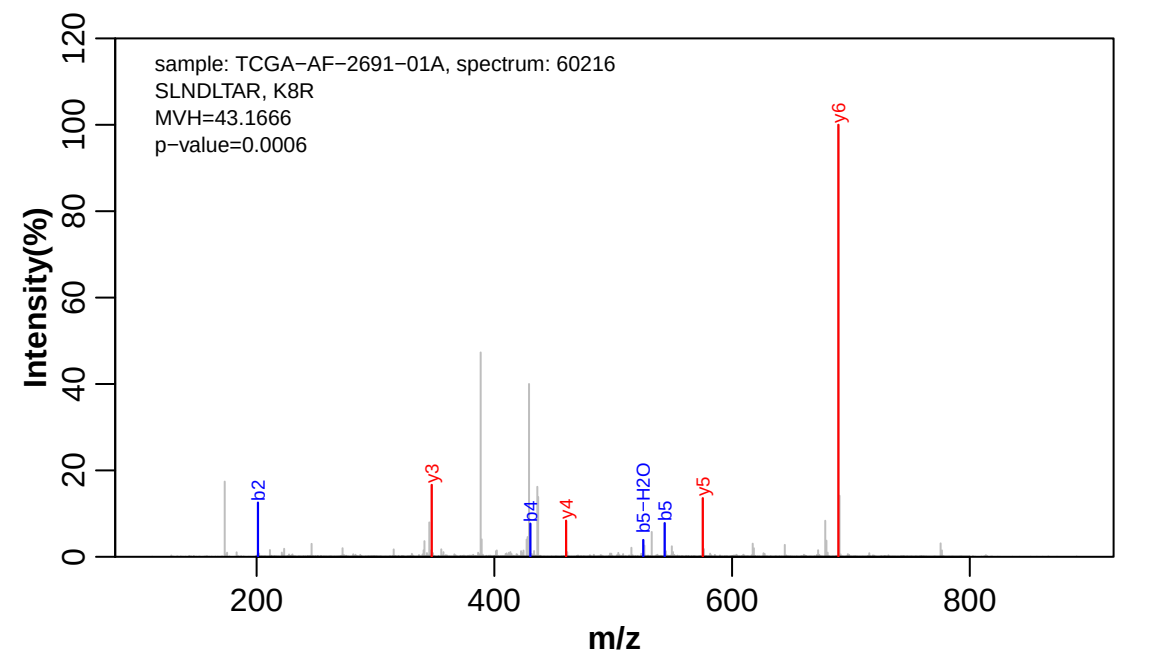

sample: TCGA−AF−2691−01A, spectrum: 110544
LVTDYTLAEADAALQK, E11D
MVH=73.5796
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
y5
b5−H2O
b5
y6−H2O
y6
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y8−H2O
y8
b8
y9−NH3
y9−H2O
y9
b9−NH3
b9−H2O
b9
y10
b10−H2O
b10
y11−NH3
y11−H2O
y11
b11−H2O
b11
b12−H2O
b12
y12−H2O
y12
b13−NH3
b13−H2O
b13
y13
b14−H2O
b14
y14−NH3
y14
b15

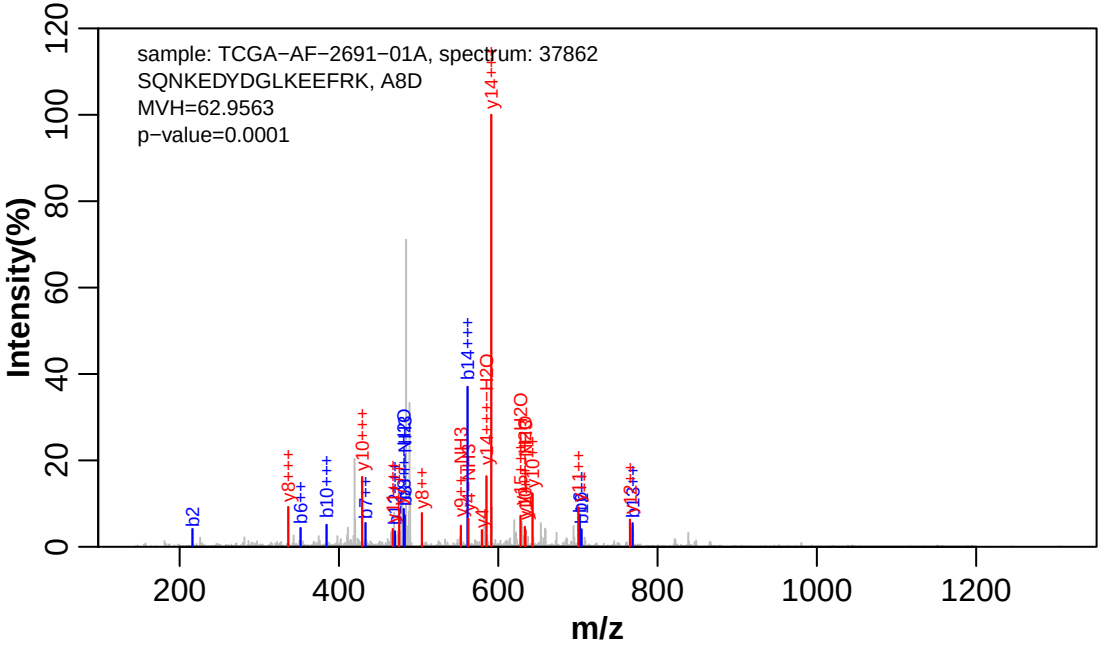

sample: TCGA−AF−2691−01A, spectrum: 17287
NPLLDLAAYDQEGR, R3L
MVH=55.1354
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y5
y10
y9
b7
b8
b6
b9
b5
b10
b4−NH3
y4
y5−NH3
y8−H2O
b9−NH3
y11
y11−NH3
b12
b13−NH3
y3
b3

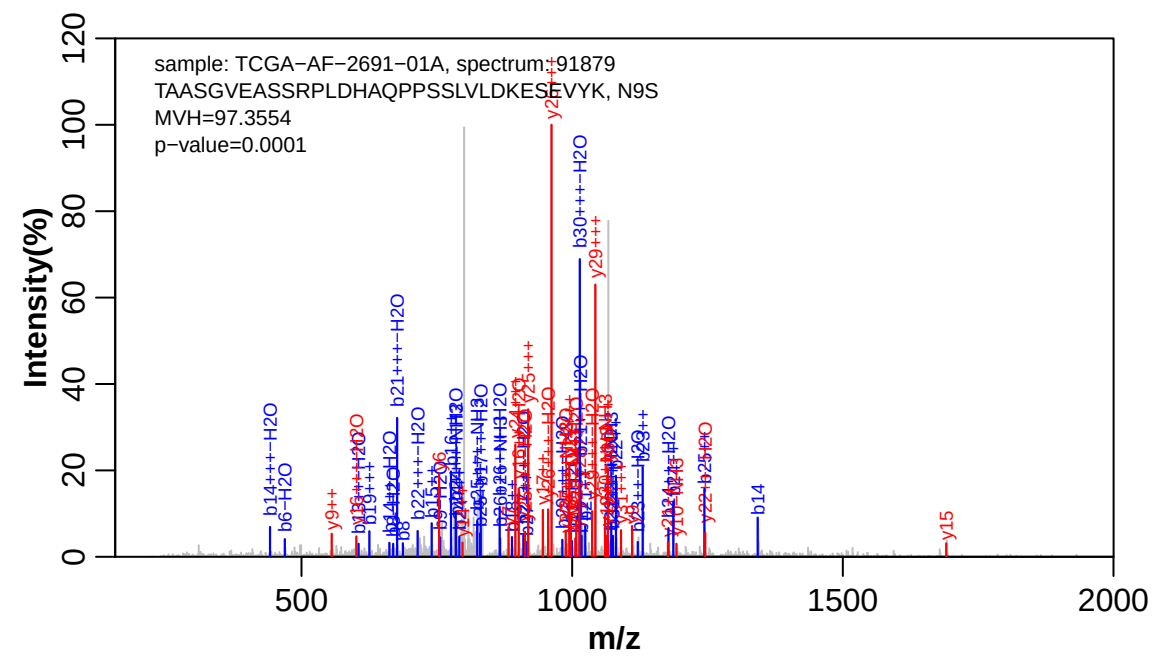

sample: TCGA−AF−2691−01A, spectrum: 47155
NTNSVPETAPAALPETR, K17R
MVH=22.9774
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y12
y8
y5
b5
b8−NH3
b9−H2O
b12−H2O
b13

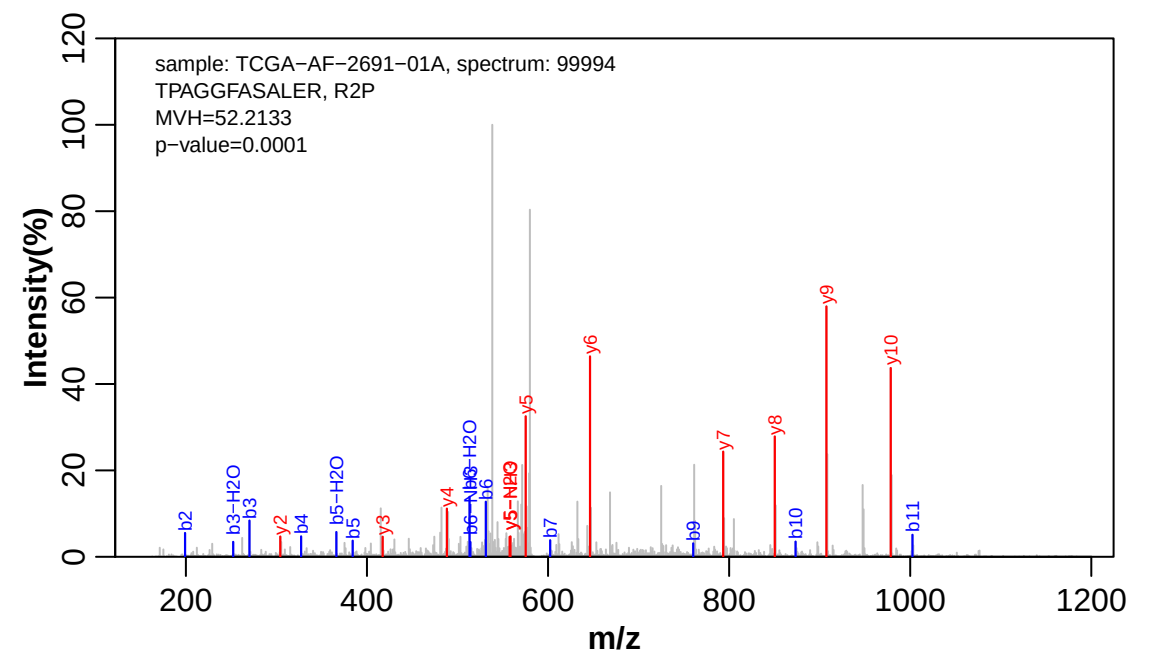

sample: TCGA−AF−2691−01A, spectrum: 80947
RGDLFYTSK, E2G
MVH=38.6963
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
b3
y3
b4−NH3
b4
y4−NH3
y4
b5
y5
b6
y6
b7−H2O
b7
b8−H2O
b8

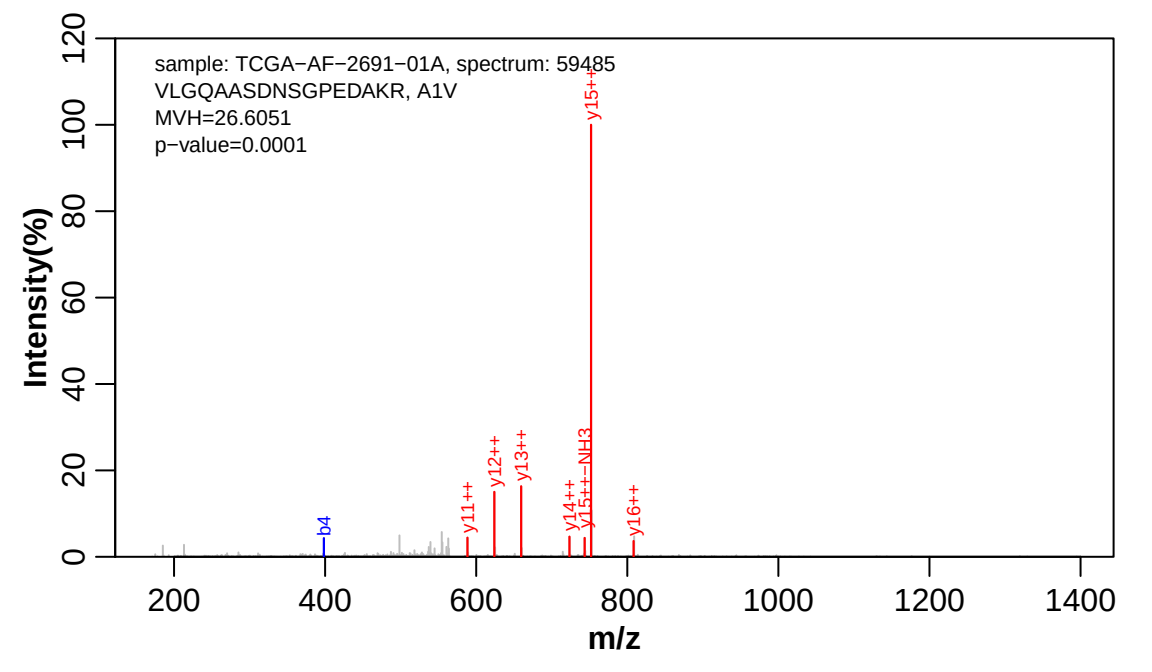

sample: TCGA−AF−2691−01A, spectrum: 26742
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=48.2996
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y4−H2O
y5
b6
b6−H2O
y7
y8
b8
b9
y9
y10
y10−H2O
b10−NH3
b11
y12
y13
b14
y15
y16
y17
y17−NH3
b18
b18−NH3

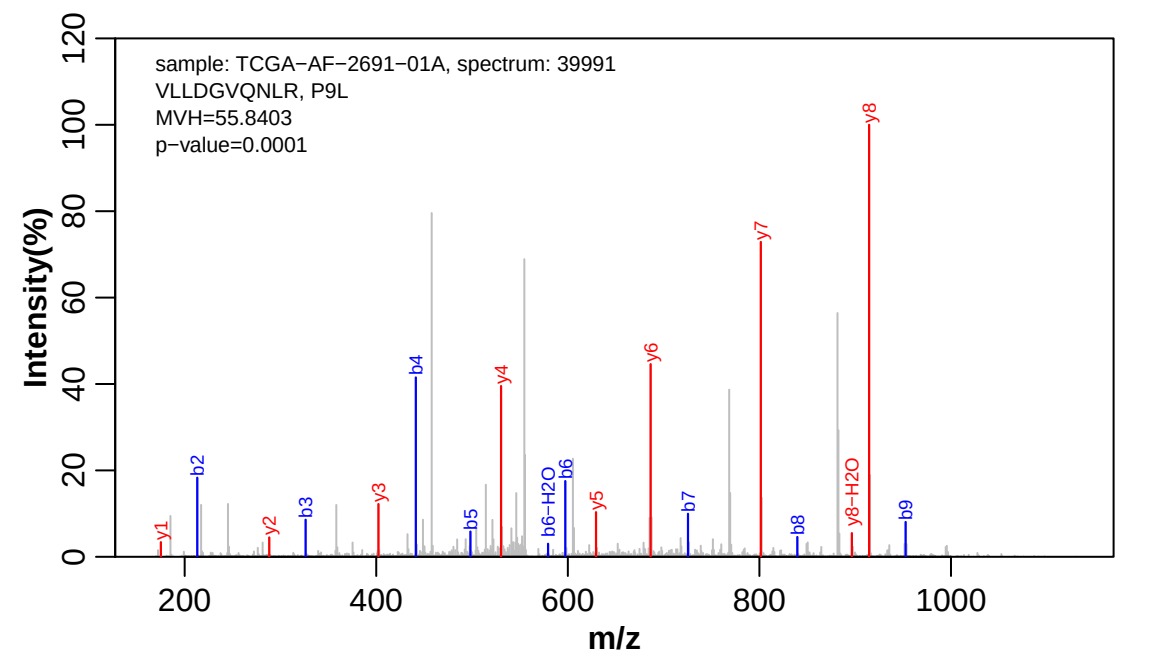

sample: TCGA−AF−2691−01A, spectrum: 60216
SLNDLTAR, K8R
MVH=43.1666
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y3
b4
y4
b5−H2O
b5
y5
y6

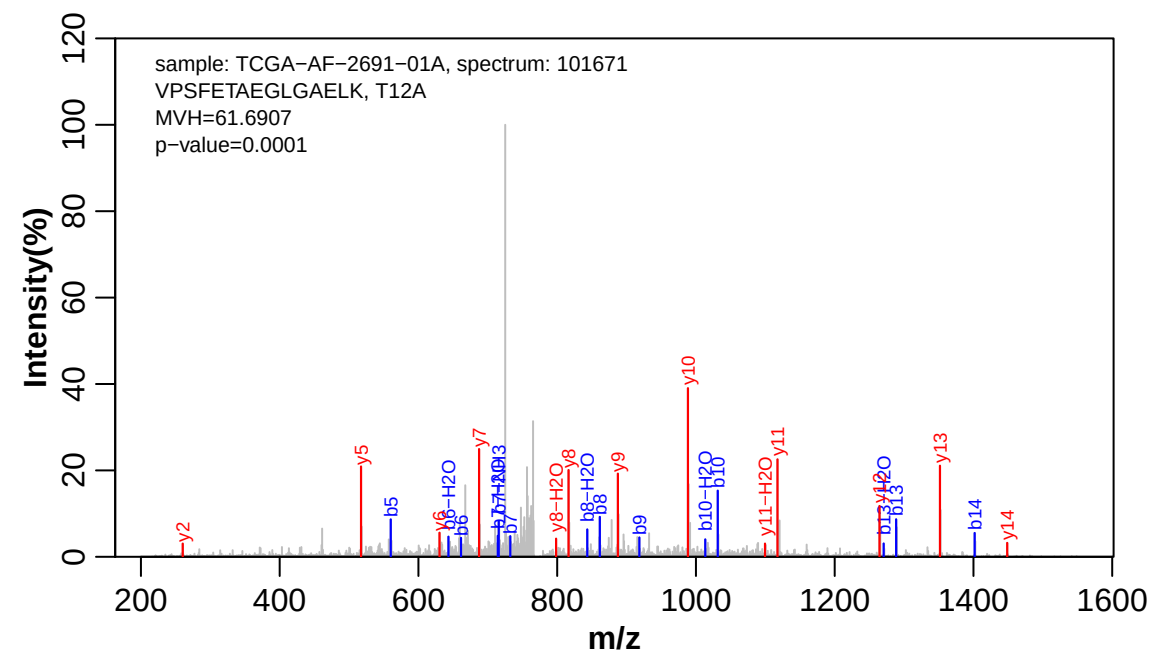

sample: TCGA−AF−2691−01A, spectrum: 37862
SQNKEDYDGLKEEFRK, A8D
MVH=62.9563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y8+++
b6++
b10+++
b7++
y10+++
y8++
b14+++
y14++
y14+++−H2O
y14++−NH3
b11++
b12++

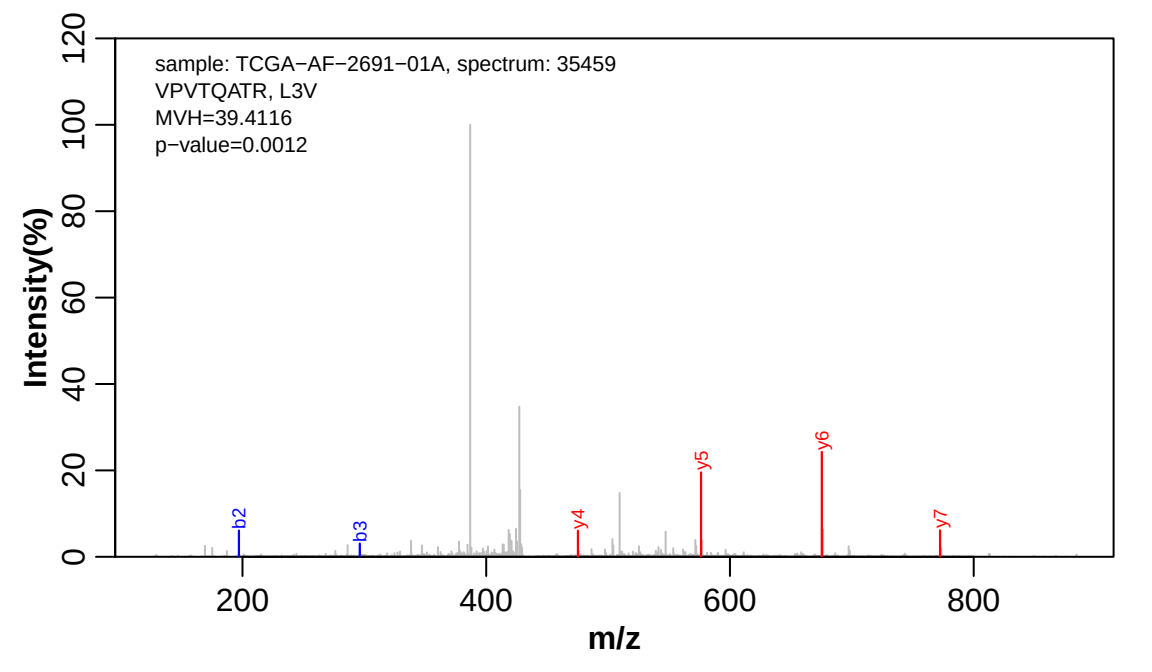

sample: TCGA−AF−2691−01A, spectrum: 91879
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=97.3554
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2+++
b30+++−H2O
y29+++
b21+++−H2O
b14+++−H2O
b6−H2O
y9++
b14
y15

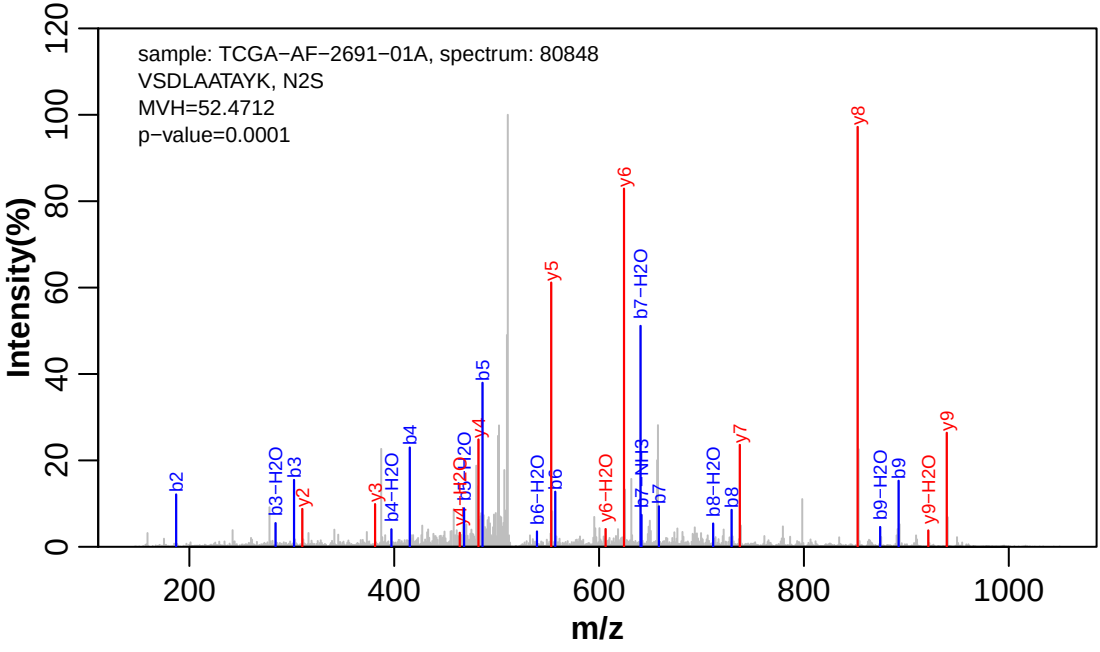

sample: TCGA−AF−2691−01A, spectrum: 99994
TPAGGFASALER, R2P
MVH=52.2133
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−H2O
b3
y2
b4
b5−H2O
b5
y3
y4
b6−NH3
b6−H2O
b6
y5−NH3
y5−H2O
y5
b7
y6
b9
y7
y8
b10
y9
y10
b11

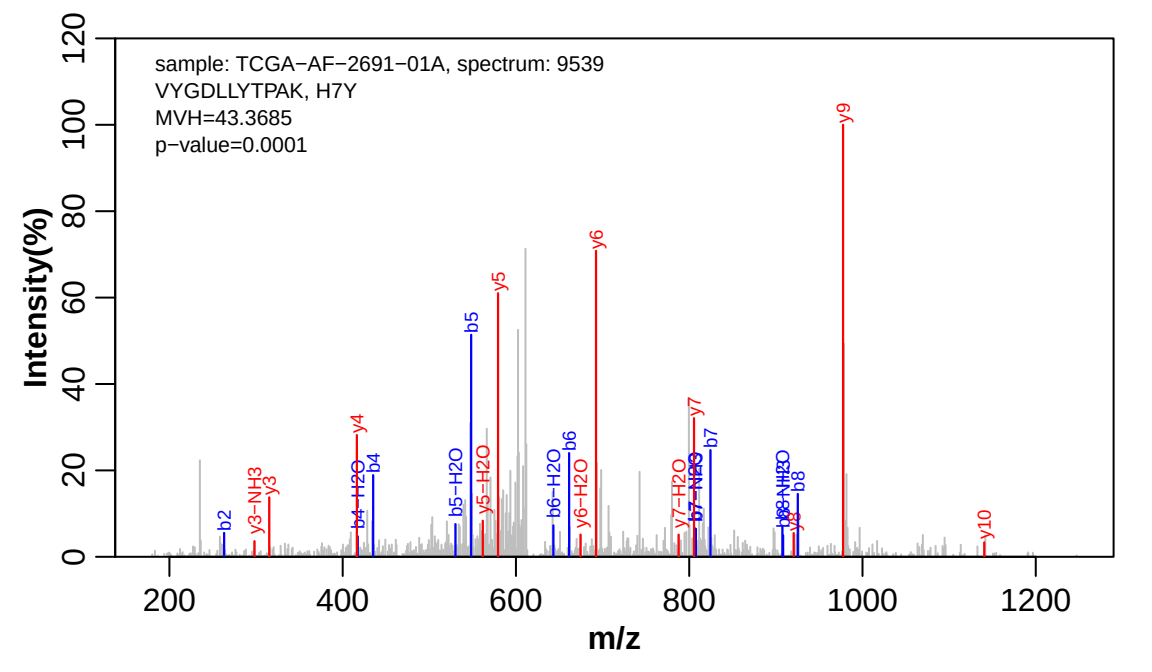

sample: TCGA−AF−2691−01A, spectrum: 59485
VLGQAASDNSGPEDAKR, A1V
MVH=26.6051
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y11++
y12++
y13++
y14++
y15++−NH3
y15++
y16++

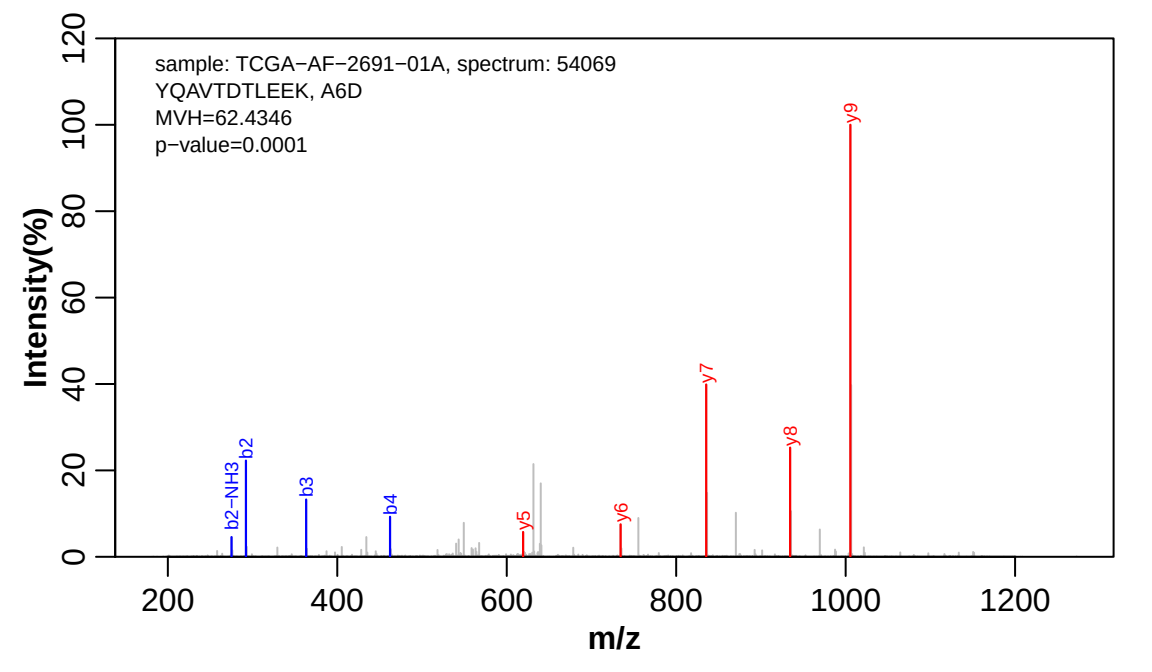

sample: TCGA−AF−2691−01A, spectrum: 39991
VLLDGVQNLR, P9L
MVH=55.8403
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8−H2O
y8
b9

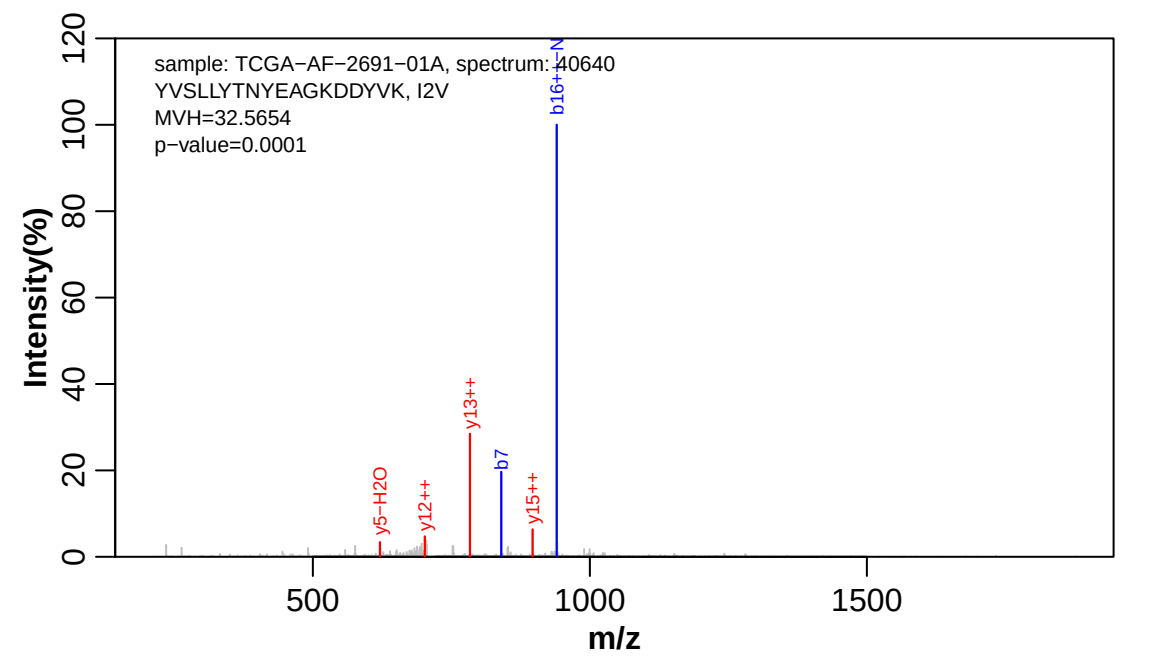

sample: TCGA−AF−2691−01A, spectrum: 101671
VPSFETAEGLGAELK, T12A
MVH=61.6907
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y5
b5
y6
b6−H2O
b6
y7
b7−H2O
b7
y8−H2O
y8
b8−H2O
b8
y9
b9
y10
b10−H2O
b10
y11−H2O
y11
b13−H2O
b13
y13
b14
y14

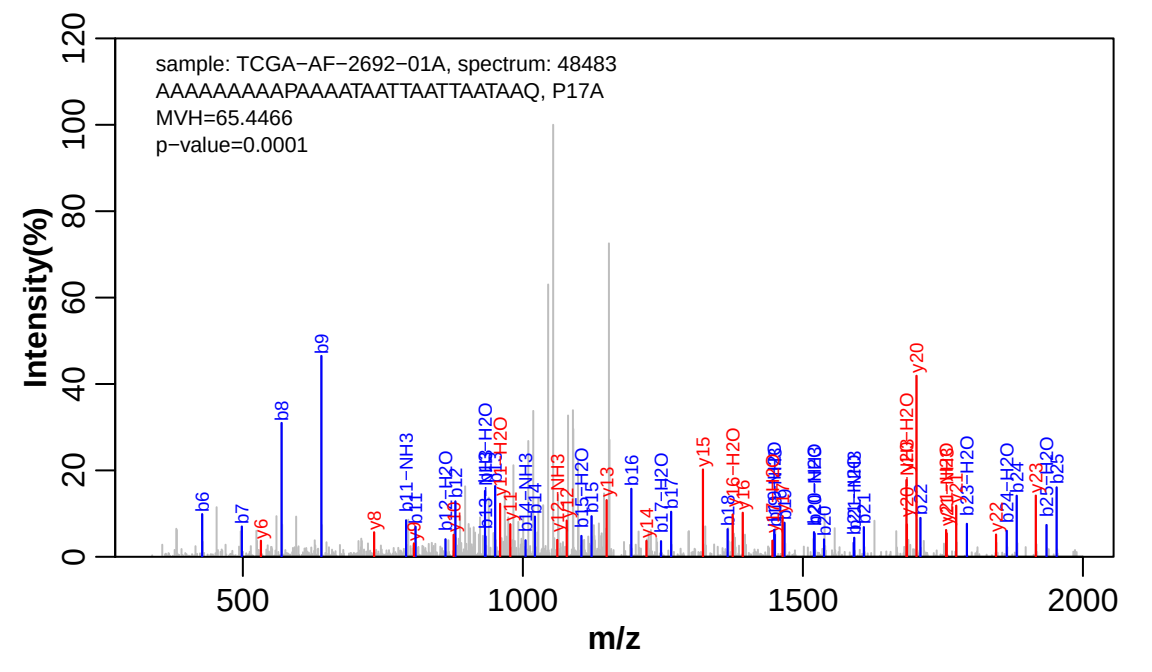

sample: TCGA−AF−2691−01A, spectrum: 35459
VPVTQATR, L3V
MVH=39.4116
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y4
y5
y6
y7

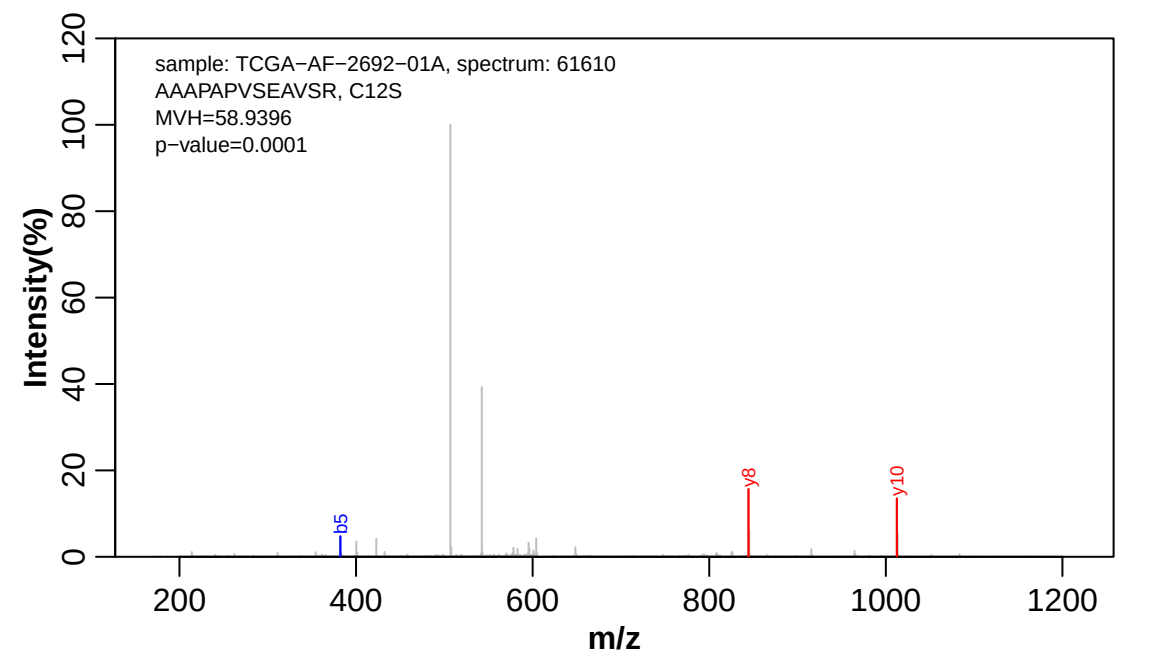

sample: TCGA−AF−2691−01A, spectrum: 80848
VSDLAATAYK, N2S
MVH=52.4712
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4−H2O
b4
y4−H2O
y4
b5
b6−H2O
y5
b6
y6−H2O
y6
b7−NH3
b7−H2O
b7
b8−H2O
b8
y7
y8
b9−H2O
b9
y9−H2O
y9

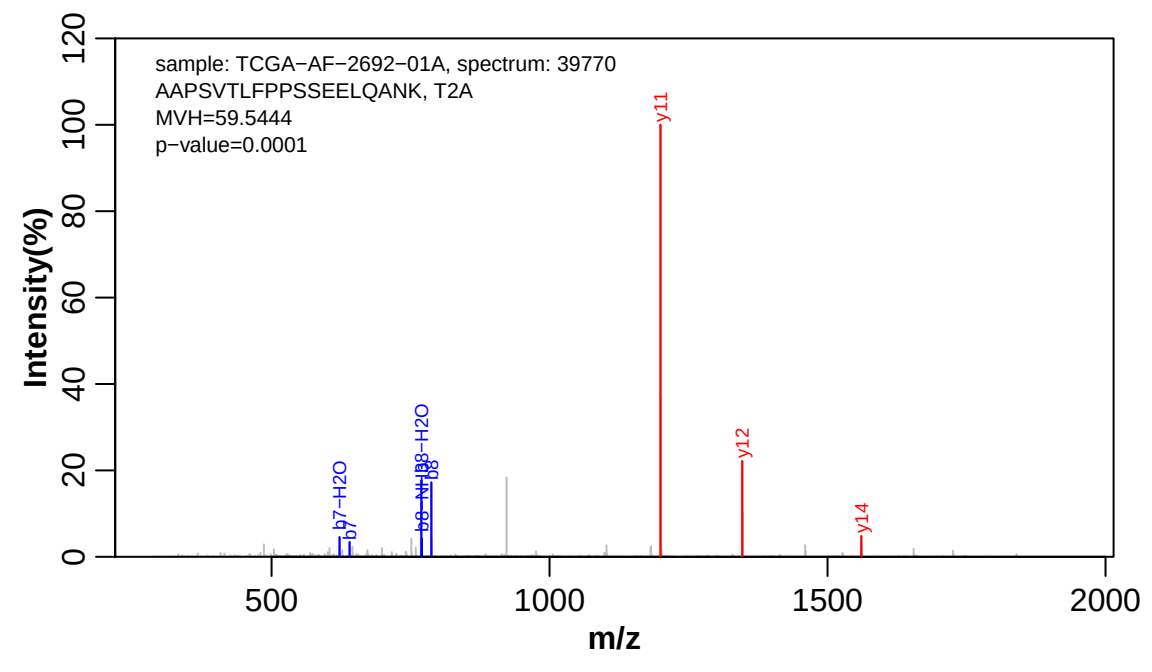

sample: TCGA−AF−2691−01A, spectrum: 9539
VYGDLLYTPAK, H7Y
MVH=43.3685
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3−NH3
y3
y4
b4−H2O
b4
b5
b5−H2O
y5−H2O
y5
y6
b6−H2O
b6
y6−H2O
y7
y7−H2O
b7−NH3
b7
b8−NH3
b8
y9
y10

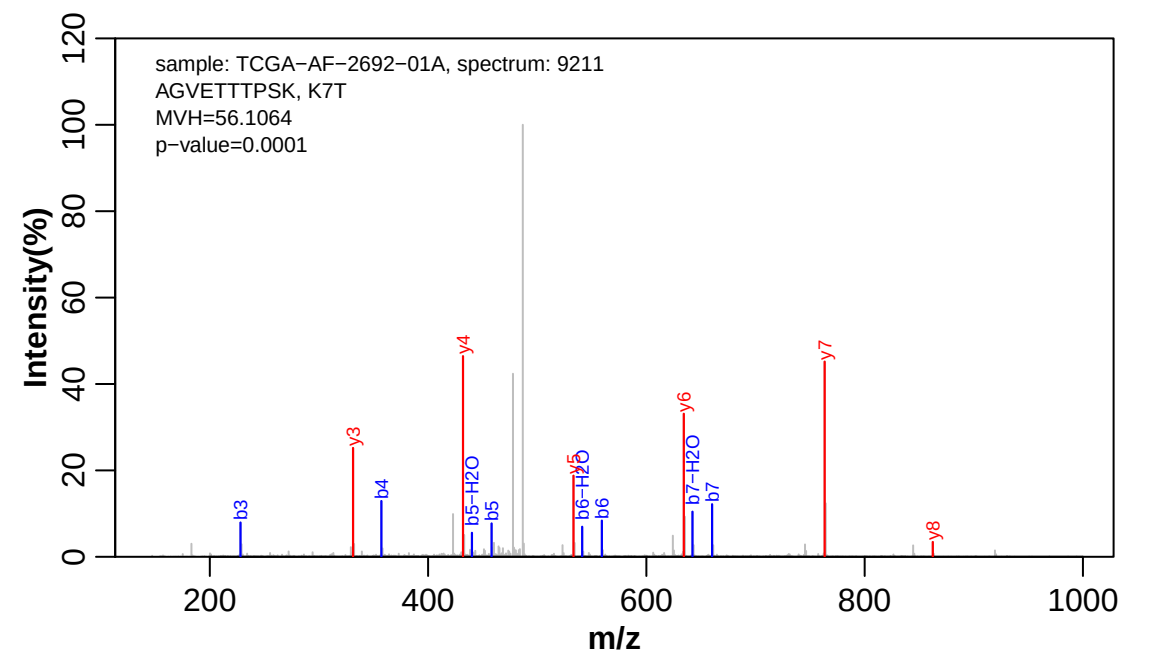

sample: TCGA−AF−2691−01A, spectrum: 54069
YQAVTDTLEEK, A6D
MVH=62.4346
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−NH3
b2
b3
b4
y5
y6
y7
y8
y9

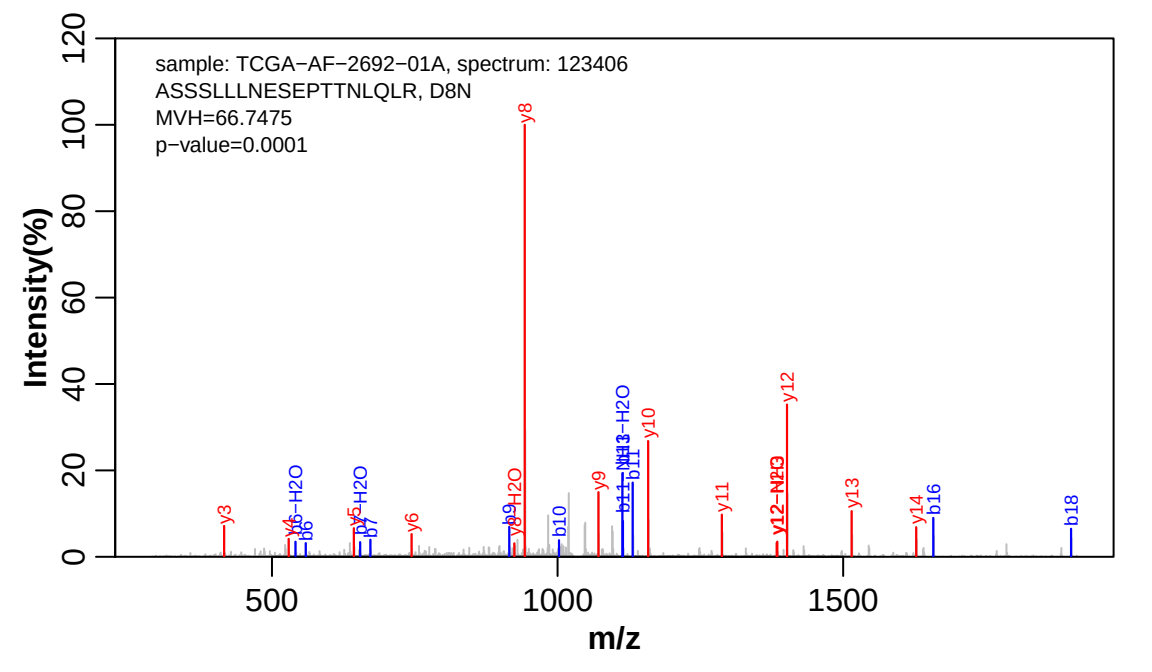

sample: TCGA−AF−2691−01A, spectrum: 40640
YVSLLYTNYEAGKDDYVK, I2V
MVH=32.5654
p−value=0.0001
b16++−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

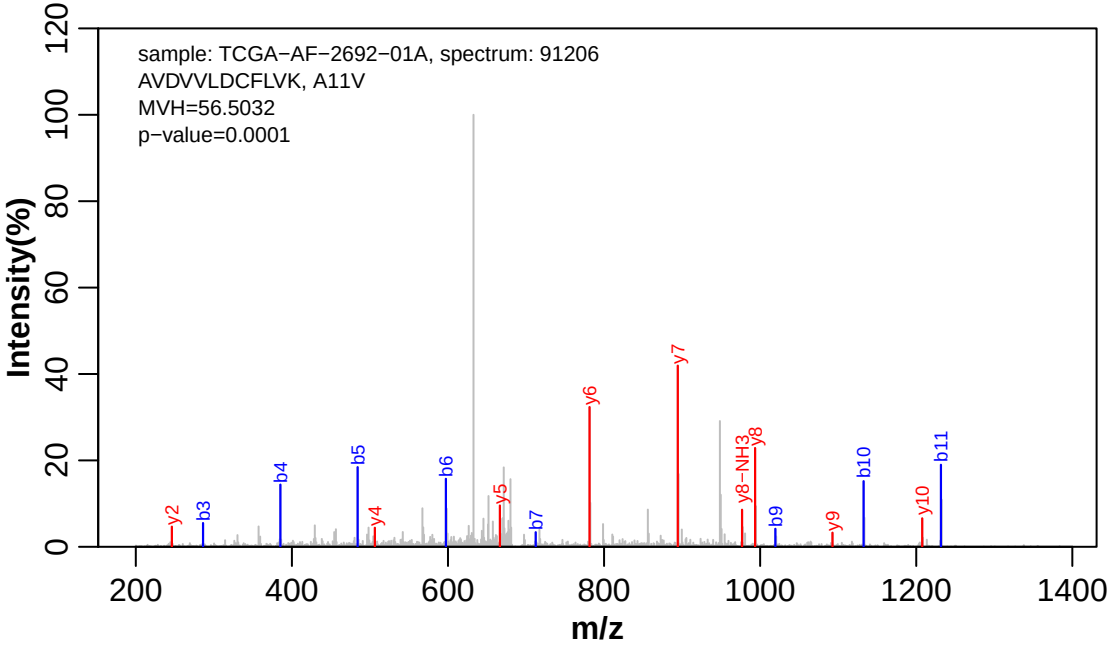

sample: TCGA−AF−2692−01A, spectrum: 48483
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=65.4466
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b6
b7
y6
b8
b9
y8
b11−NH3
b12−H2O
b12
b13−NH3
b13−H2O
y11−H2O
b14
b14−NH3
y12−NH3
b15−H2O
b15
y13
b16
b17−H2O
b17
y14
y15
b18
y16−H2O
y16
y20
y20−NH3
y20−H2O
b22
b23−H2O
y22
b24−H2O
b24
y23
b25−H2O
b25

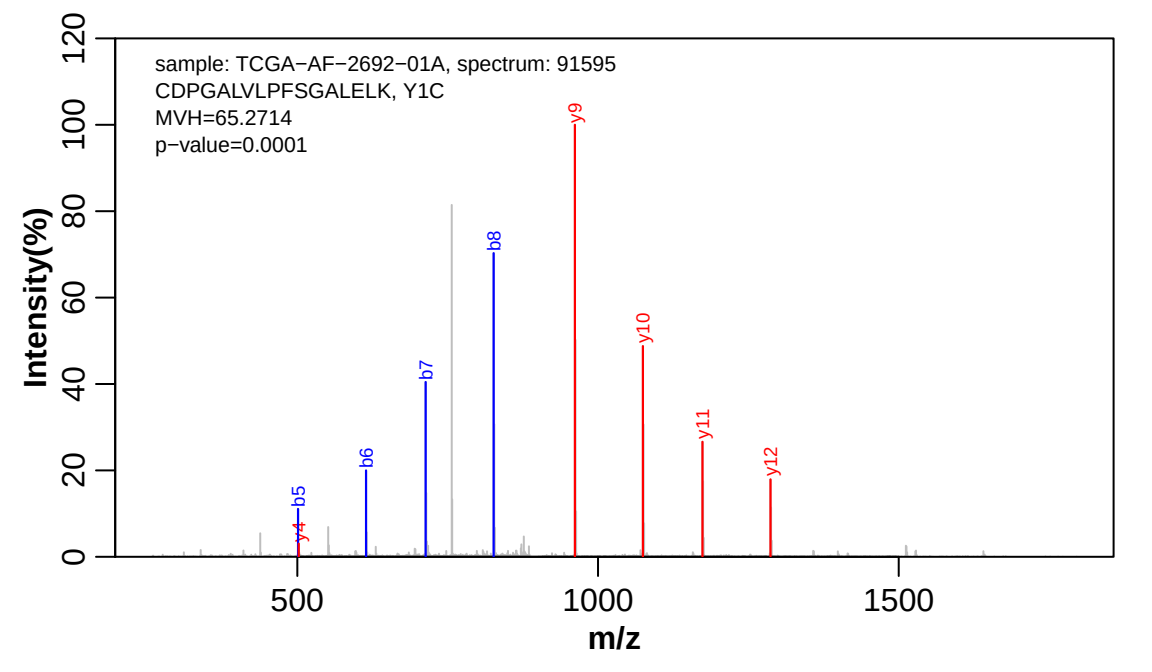

sample: TCGA−AF−2692−01A, spectrum: 61610
AAAPAPVSEAVSR, C12S
MVH=58.9396
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

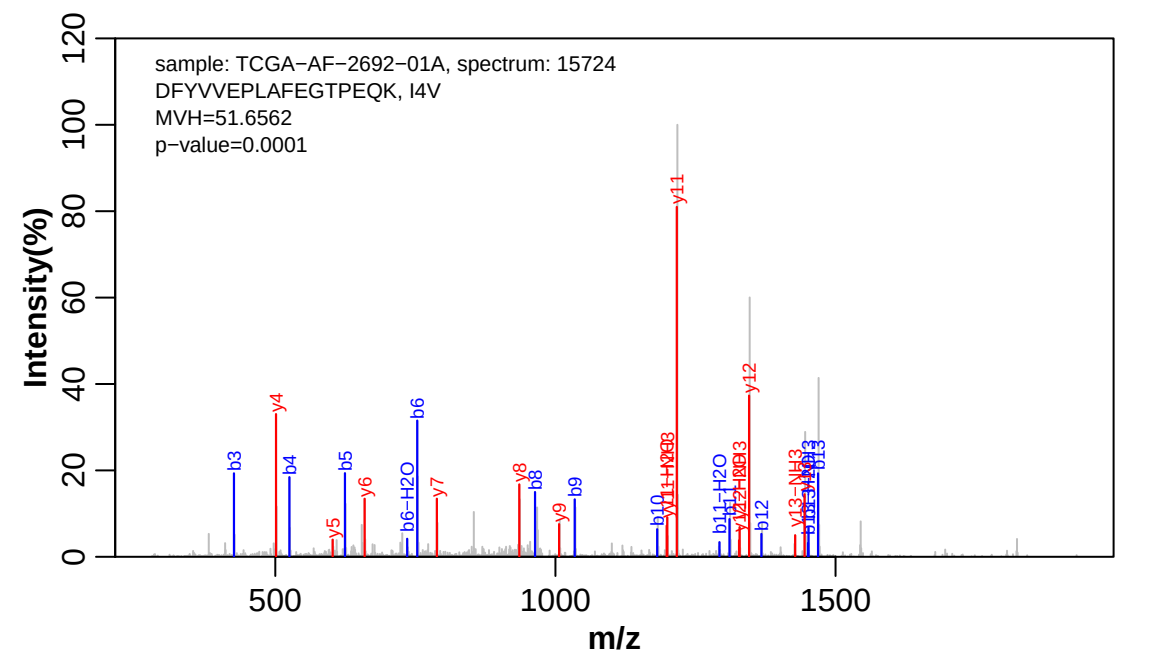

sample: TCGA−AF−2692−01A, spectrum: 39770
AAPSVTLFPPSSEELQANK, T2A
MVH=59.5444
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8
b8−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

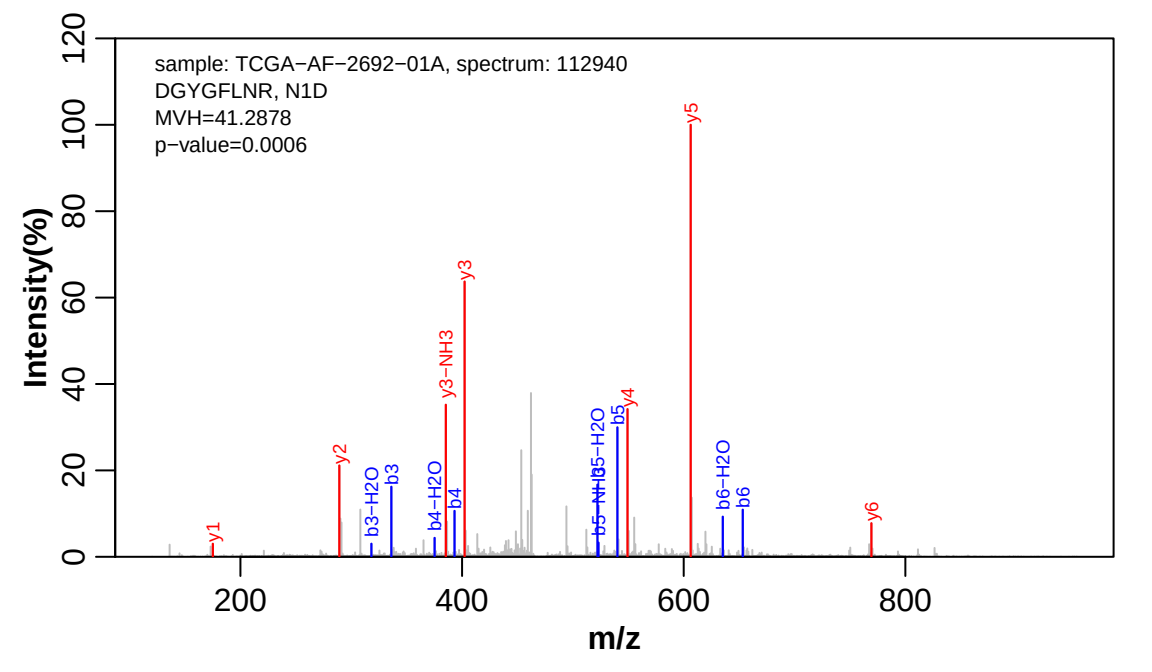

sample: TCGA−AF−2692−01A, spectrum: 9211
AGVETTTPSK, K7T
MVH=56.1064
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

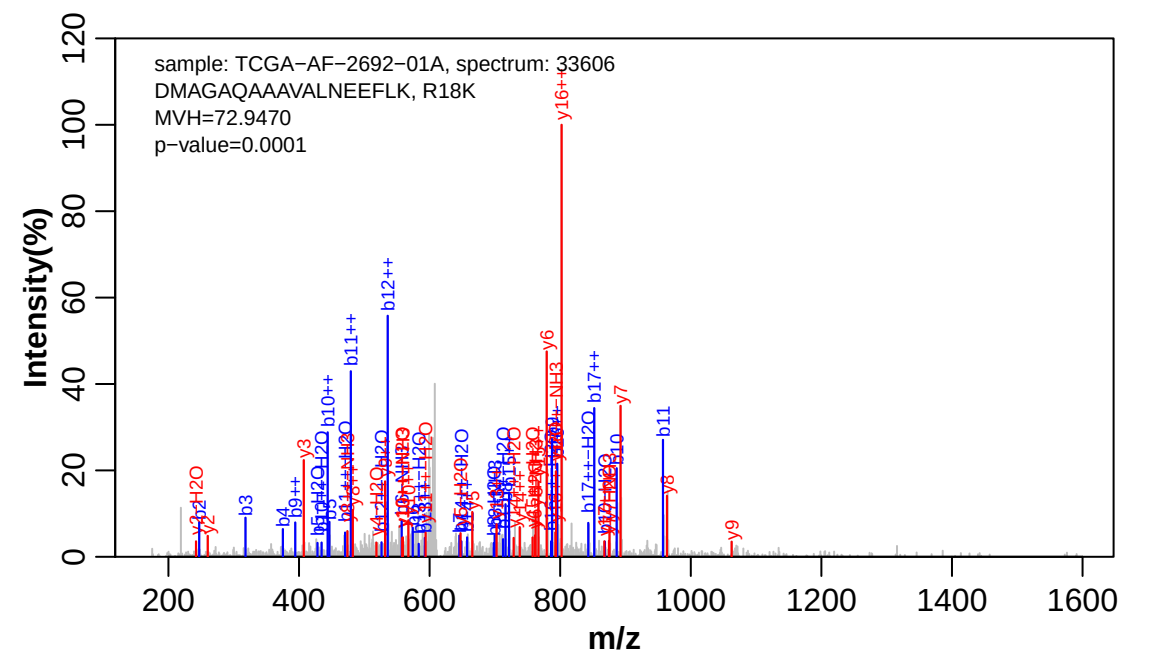

sample: TCGA−AF−2692−01A, spectrum: 123406
ASSSLLLNESEPTTNLQLR, D8N
MVH=66.7475
p−value=0.0001
Intensity(%)
m/z
y8
y12
y10
y9
y11
y13
b18
y3
y6
b10
b16
y14
0
20
40
60
80
100
120
500
1000
1500

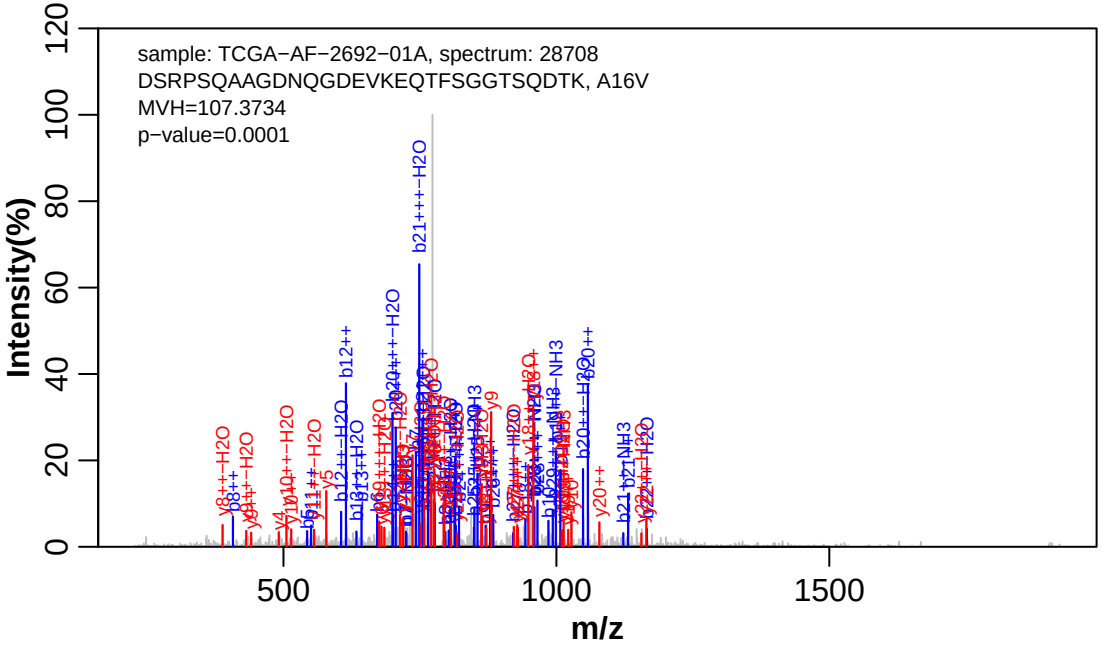

sample: TCGA−AF−2692−01A, spectrum: 91206
AVDVVLDCFLVK, A11V
MVH=56.5032
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y2
b3
b4
b5
y4
b6
y5
b7
y6
y7
y8−NH3
y8
b9
y9
b10
y10
b11

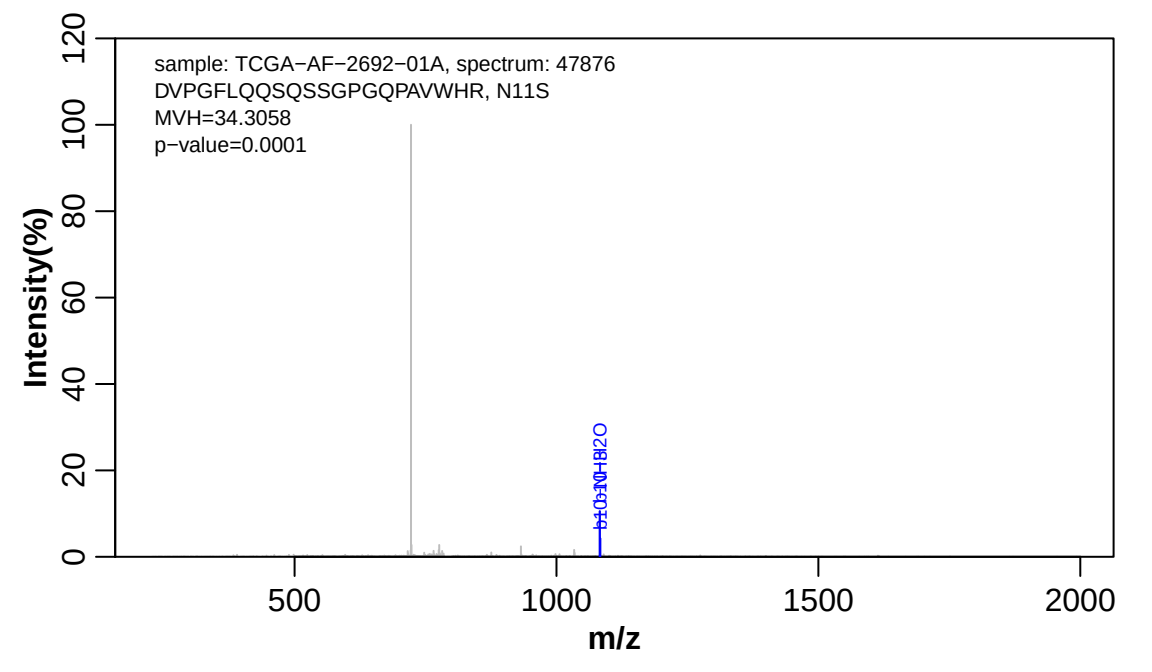

sample: TCGA−AF−2692−01A, spectrum: 91595
CDPGALVLPFSGALELK, Y1C
MVH=65.2714
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
b7
b8
y9
y10
y11
y12

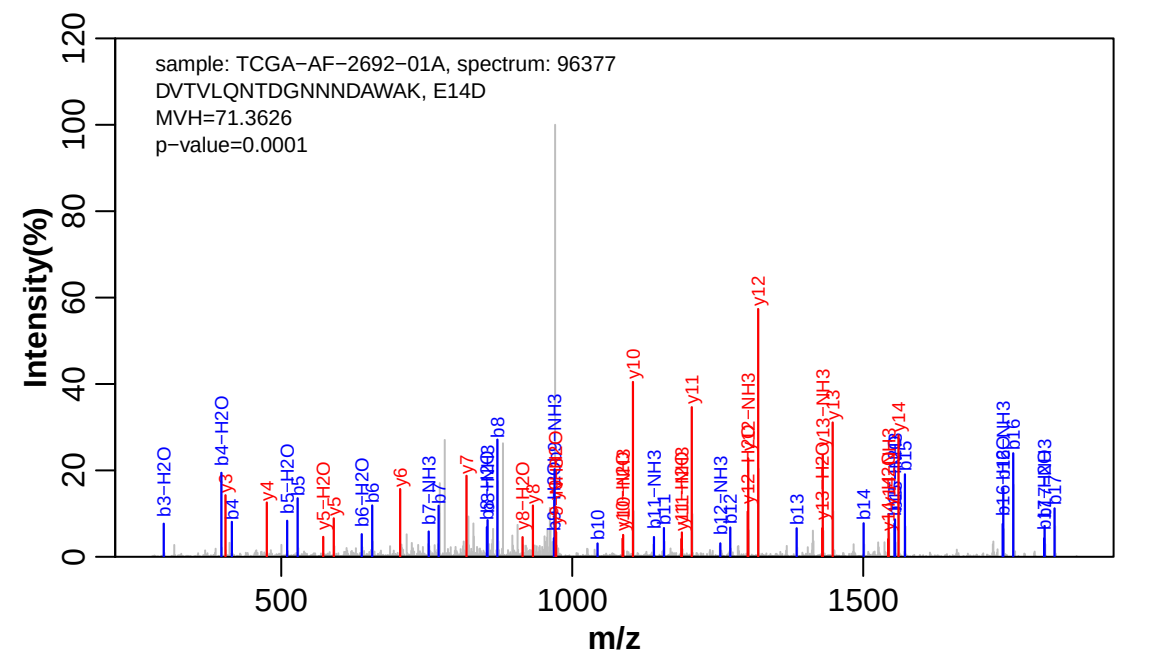

sample: TCGA−AF−2692−01A, spectrum: 15724
DFYVVEPLAFEGTPEQK, I4V
MVH=51.6562
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
b5
y5
y6
b6−H2O
b6
y7
y8
b8
y9
b9
b10
y11
y11−H2O
y11−NH3
b11−H2O
y12
y12−H2O
y12−NH3
b12
y13−NH3
b13

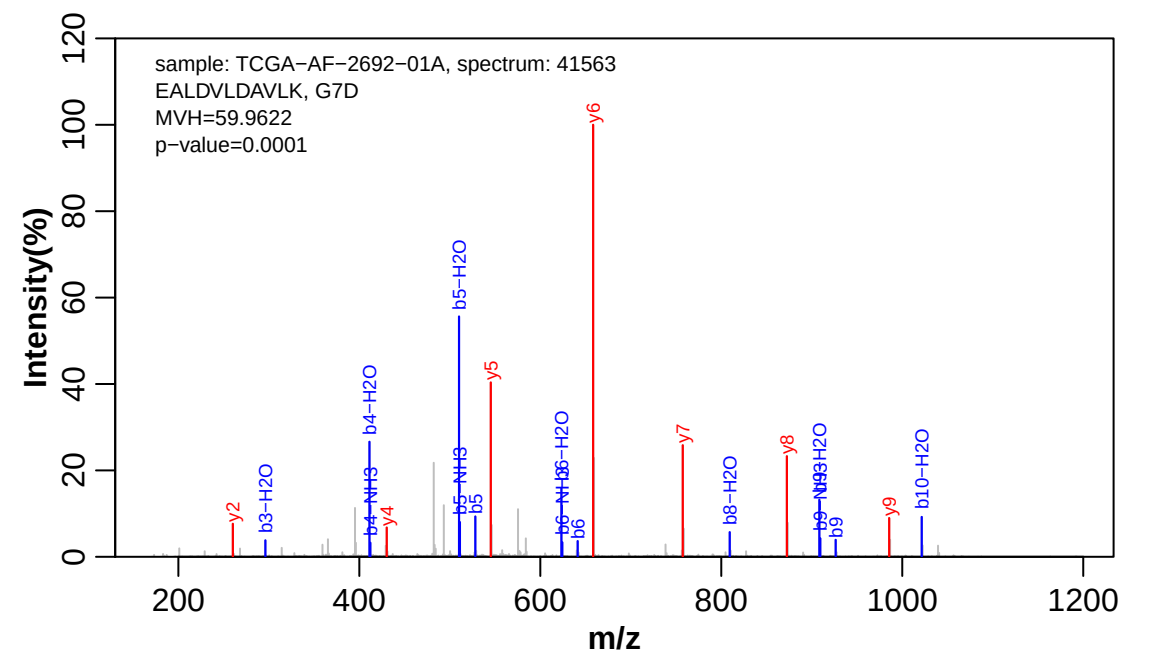

sample: TCGA−AF−2692−01A, spectrum: 112940
DGYGFLNR, N1D
MVH=41.2878
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−H2O
b5
y4
y5
b6−H2O
b6
y6

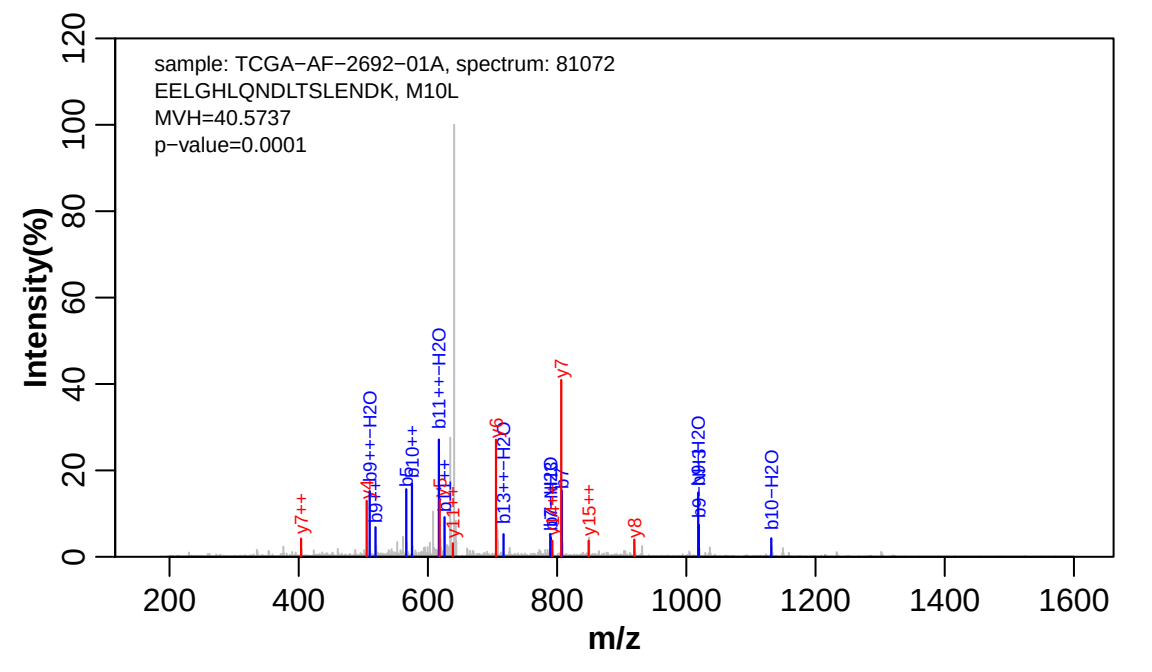

sample: TCGA−AF−2692−01A, spectrum: 33606
DMAGAQAAAVALNEEFLK, R18K
MVH=72.9470
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y16++
y6
b12++
b11++
b10++
b17++
y7
b11
y8
y9
y3
b3
b4
y2
y2−H2O

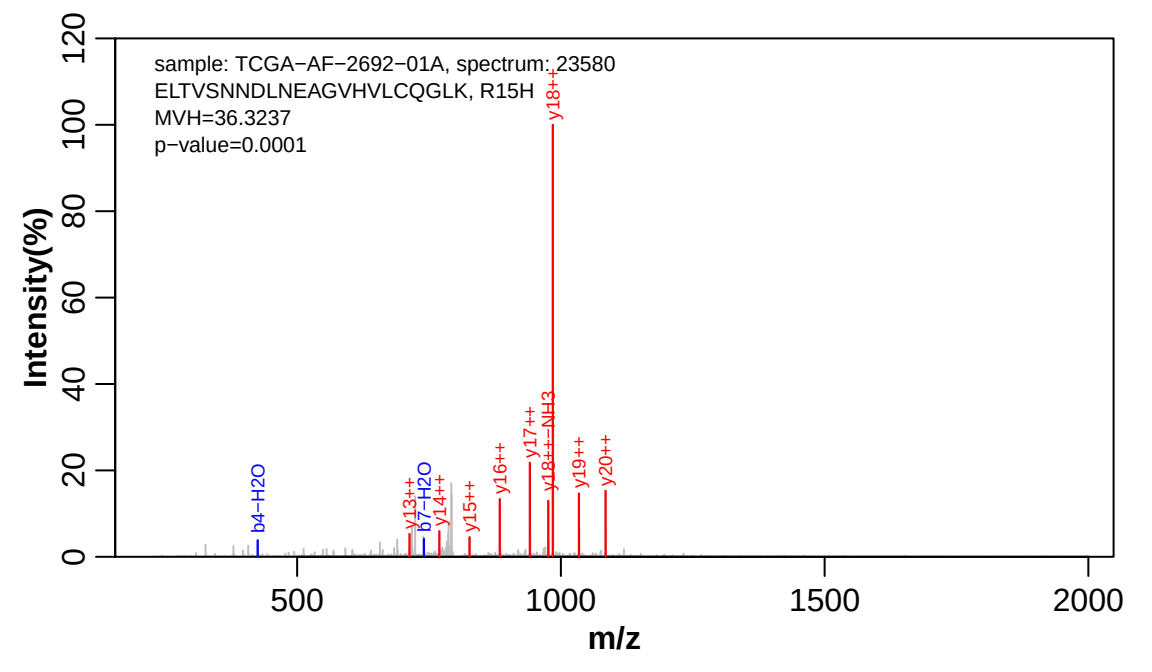

sample: TCGA−AF−2692−01A, spectrum: 28708
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=107.3734
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

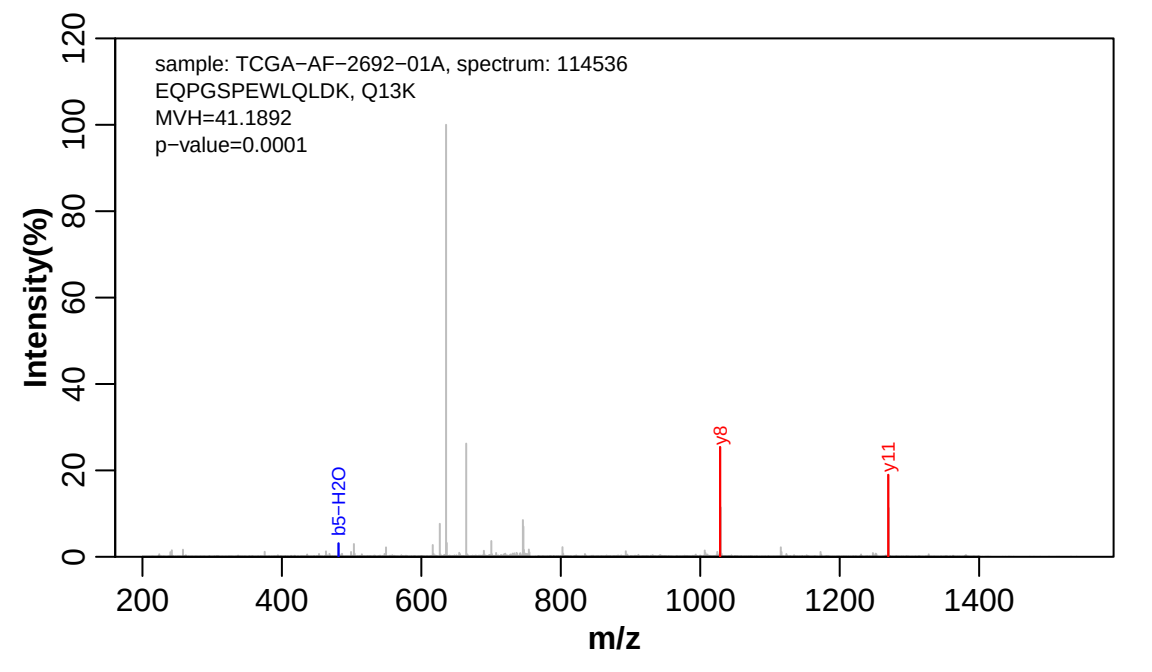

sample: TCGA−AF−2692−01A, spectrum: 47876
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=34.3058
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

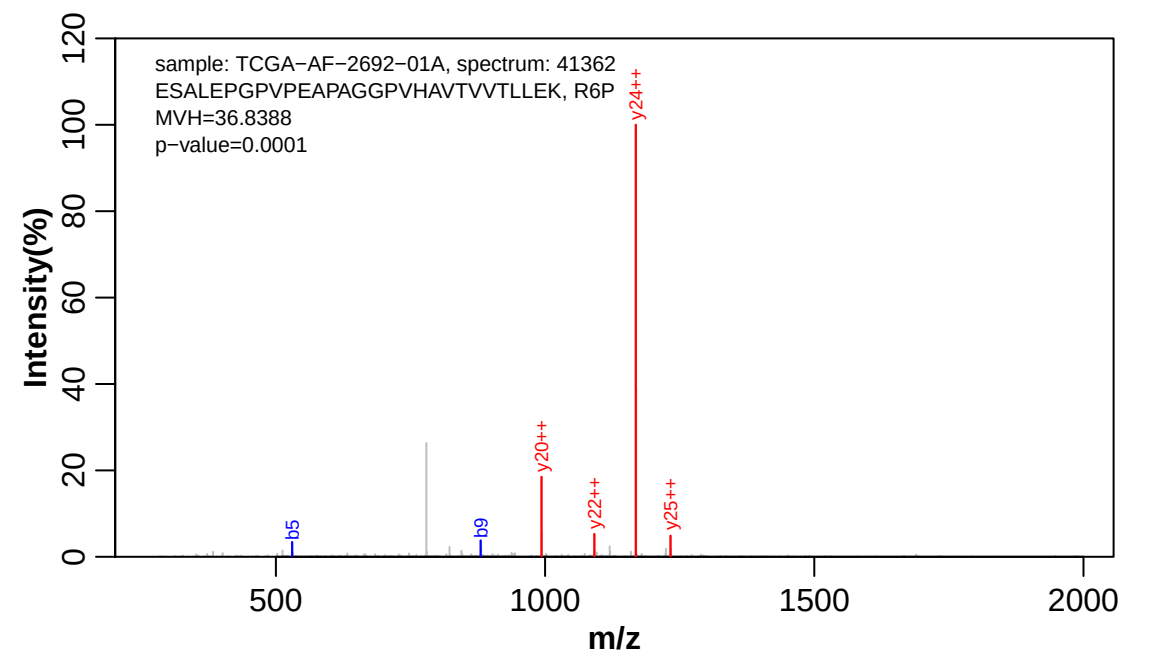

sample: TCGA−AF−2692−01A, spectrum: 96377
DVTVLQNTDGNNNDAWAK, E14D
MVH=71.3626
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4−H2O
b4
y3
y4
b5
b5−H2O
y5
y5−H2O
b6
b6−H2O
y6
b7
b7−NH3
y7
b8
y8
y8−H2O
b10
y10
b11
b11−NH3
y11
b12
b12−NH3
y12
y12−H2O
y12−NH3
b13
y13
y13−H2O
y13−NH3
b14
y14
b16
b16−NH3
b17
b17−NH3

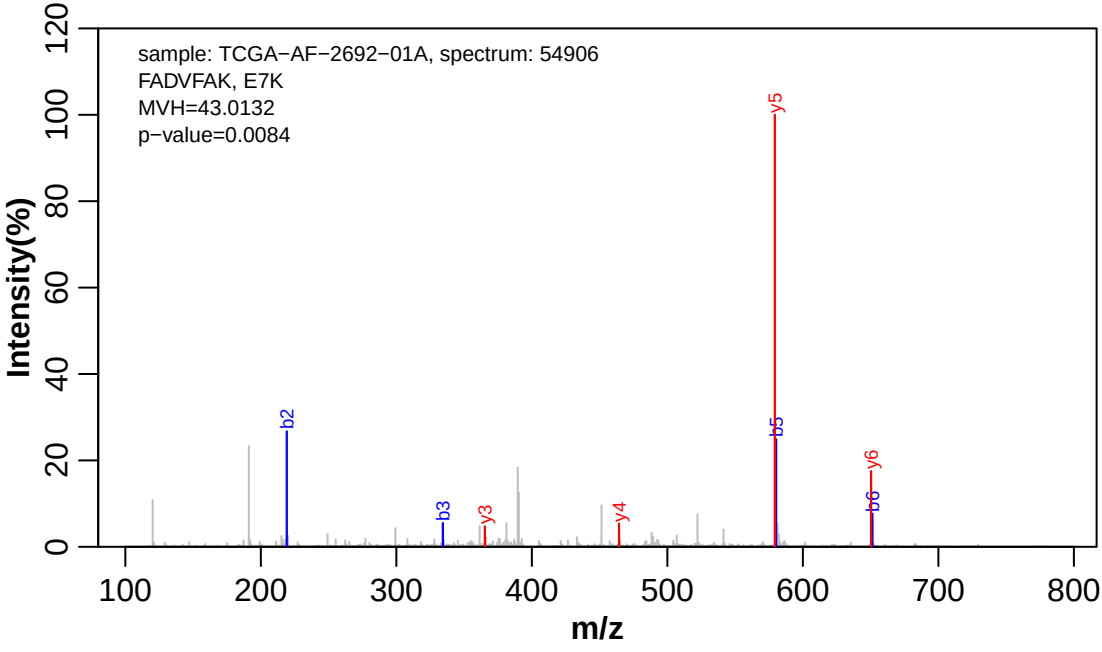

sample: TCGA−AF−2692−01A, spectrum: 41563
EALDVLDAVLK, G7D
MVH=59.9622
p−value=0.0001
Intensity(%)
m/z
y6
b5−H2O
y5
b4−H2O
y7
y8
b10−H2O
y2
b3−H2O
b4−NH3
y4
b5−NH3
b5
b6−NH3
b6−H2O
b6
b8−H2O
b9−NH3
b9−H2O
b9
y9

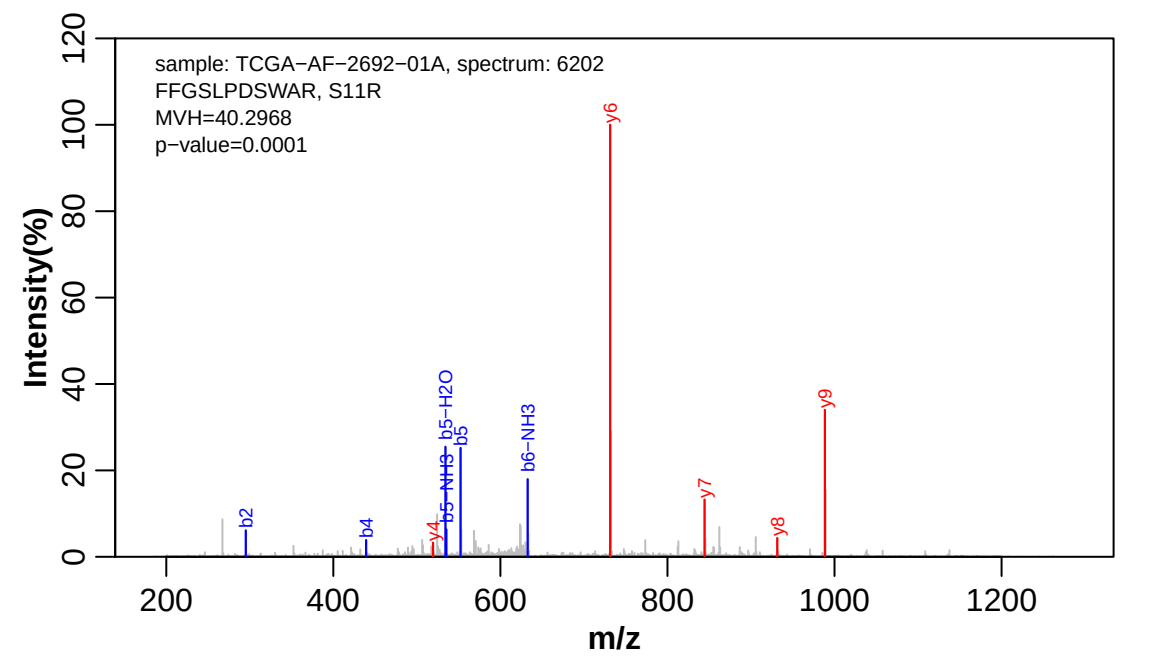

sample: TCGA−AF−2692−01A, spectrum: 81072
EELGHLQNDLTSLENDK, M10L
MVH=40.5737
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7++
b9++−H2O
b10++
b11++−H2O
y7
b13++−H2O
y15++
y8
b10−H2O

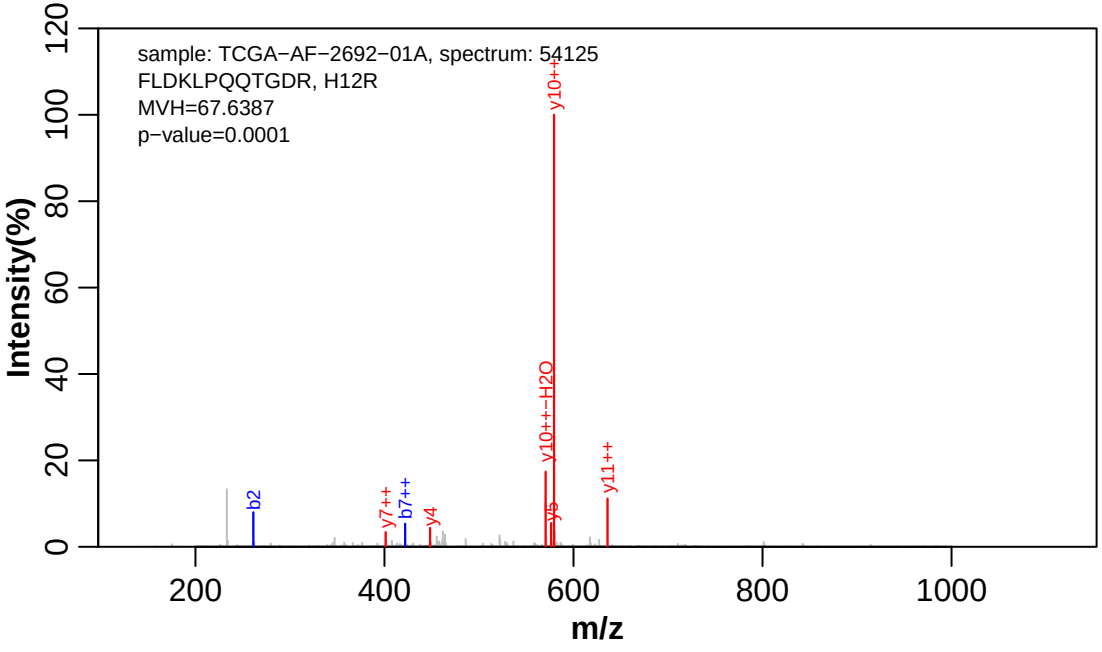

sample: TCGA−AF−2692−01A, spectrum: 23580
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=36.3237
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
y13++
b7−H2O
y14++
y15++
y16++
y17++
y18++−NH3
y18++
y19++
y20++

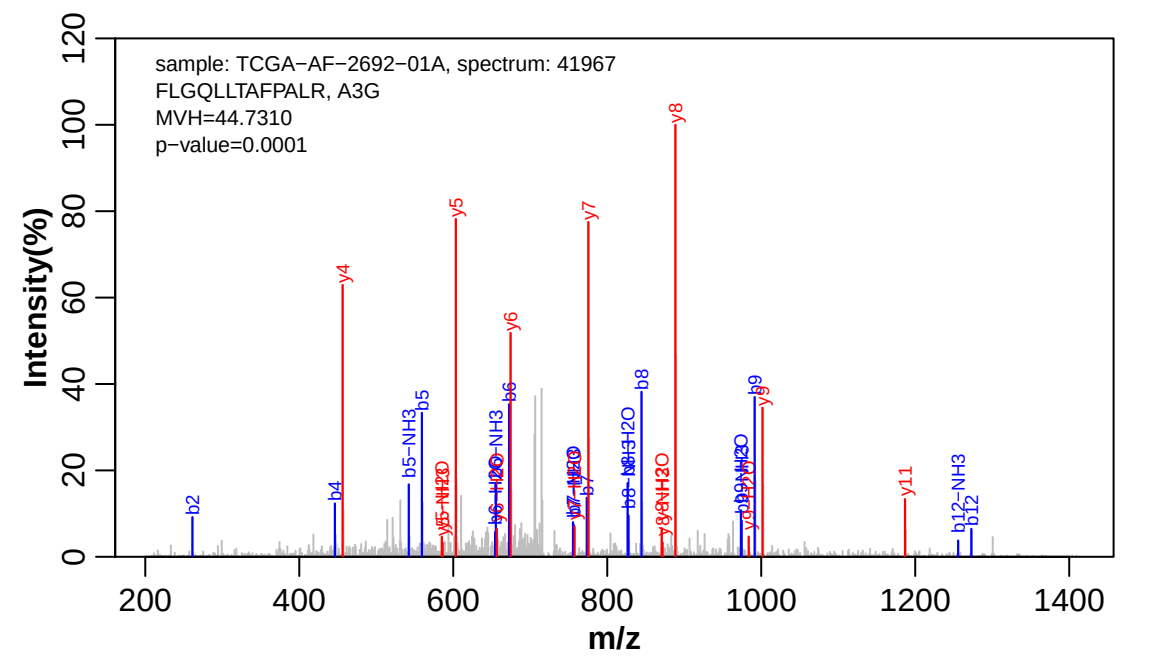

sample: TCGA−AF−2692−01A, spectrum: 114536
EQPGSPEWLQLDK, Q13K
MVH=41.1892
p−value=0.0001
b5−H2O
y8
y11
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

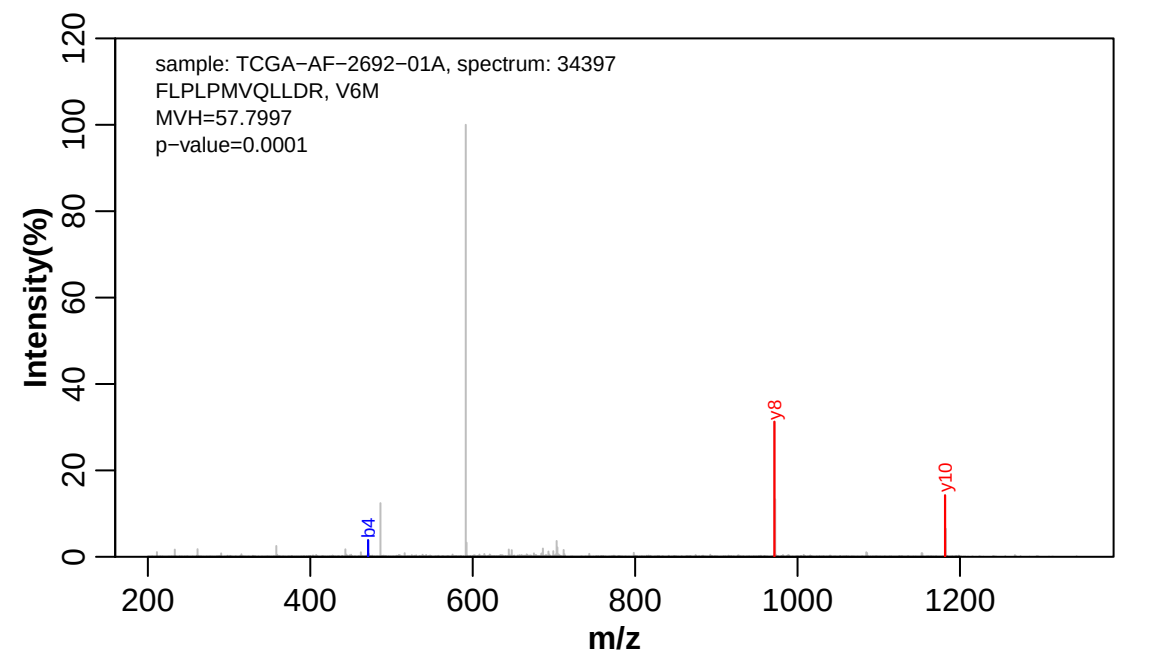

sample: TCGA−AF−2692−01A, spectrum: 41362
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=36.8388
p−value=0.0001
y24++
y20++
y22++
y25++
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

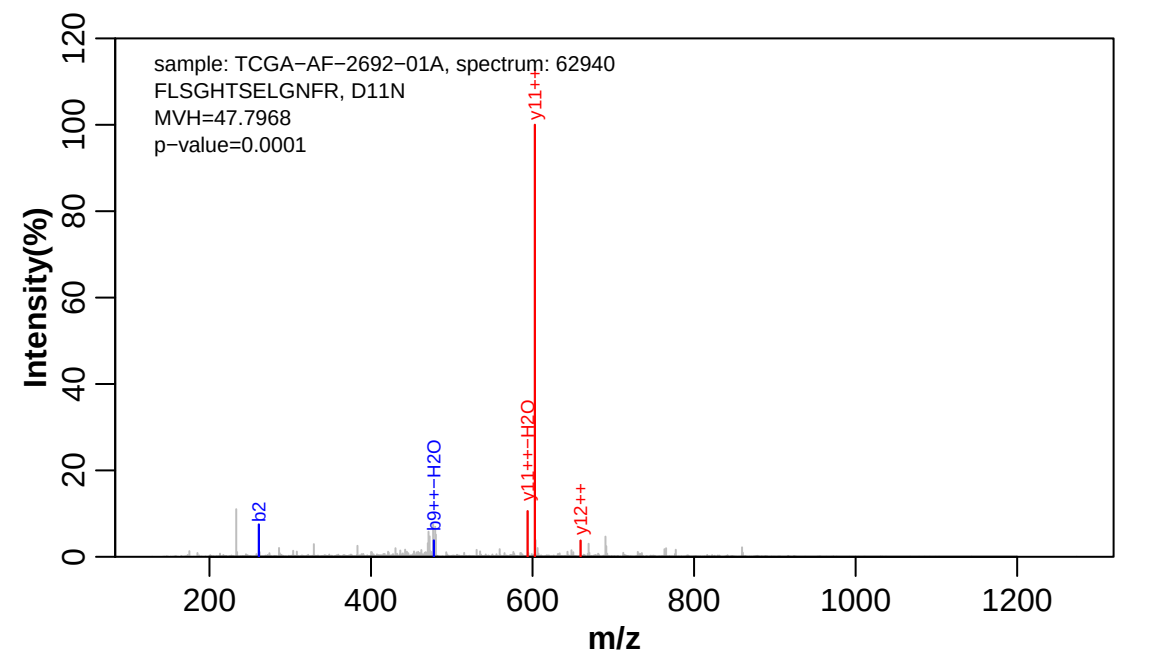

sample: TCGA−AF−2692−01A, spectrum: 54906
FADVFAK, E7K
MVH=43.0132
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z
b2
b3
y3
y4
y5
b5
b6
y6

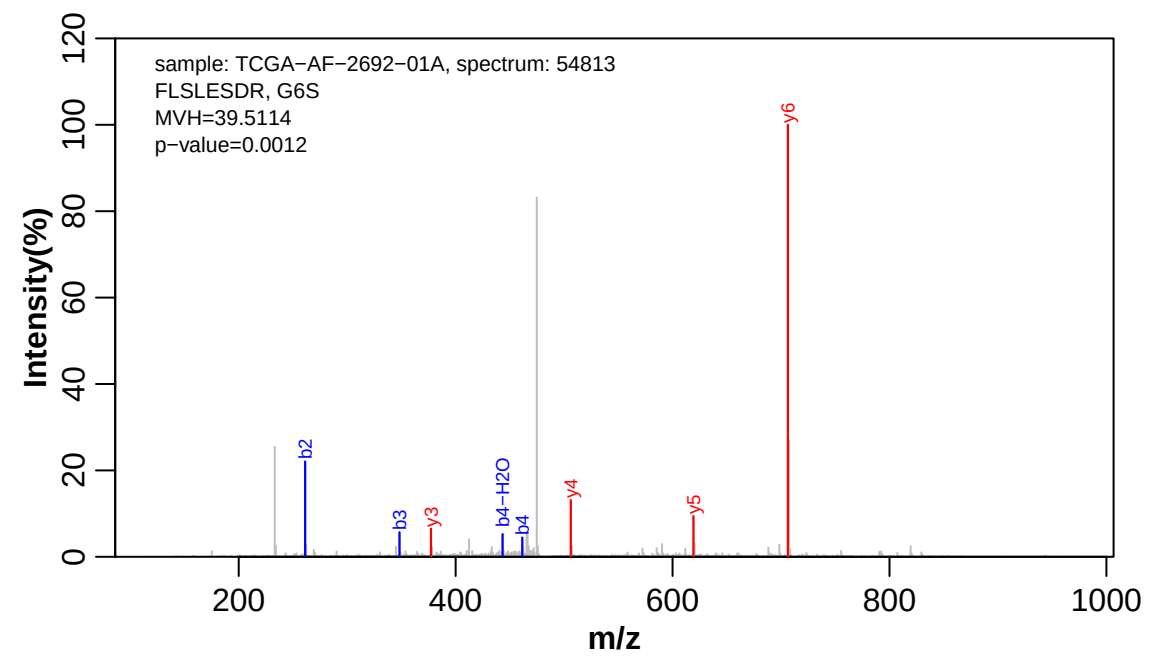

sample: TCGA−AF−2692−01A, spectrum: 6202
FFGSLPDSWAR, S11R
MVH=40.2968
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

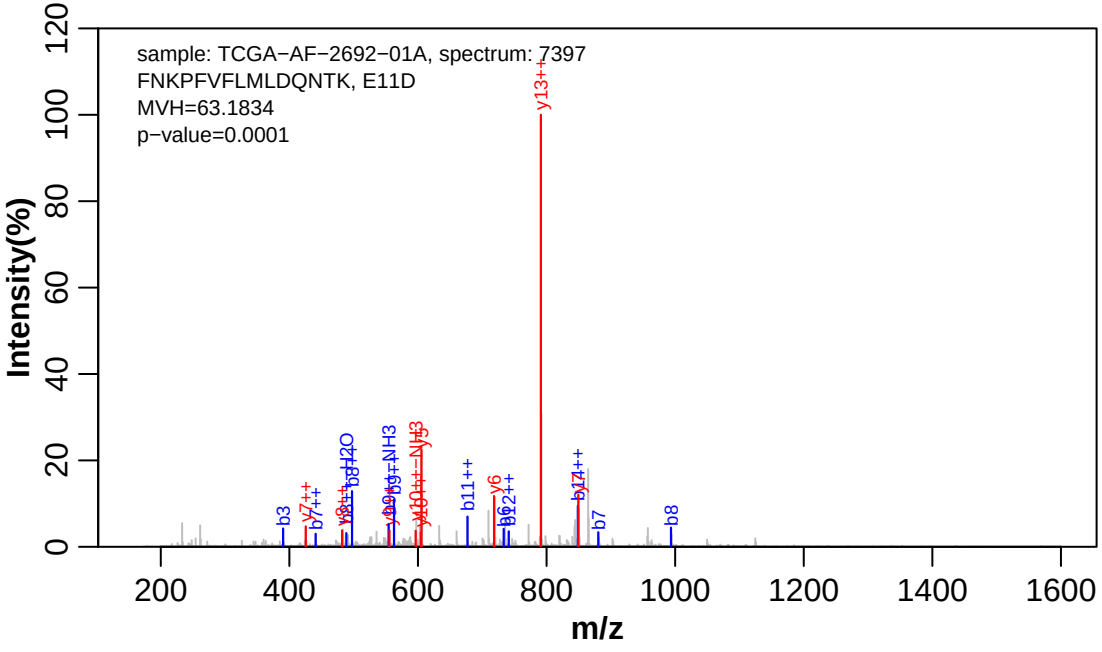

sample: TCGA−AF−2692−01A, spectrum: 54125
FLDKLPQQTGDR, H12R
MVH=67.6387
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y10++
y10++−H2O
y11++
b2
y7++
b7++
y4
y8

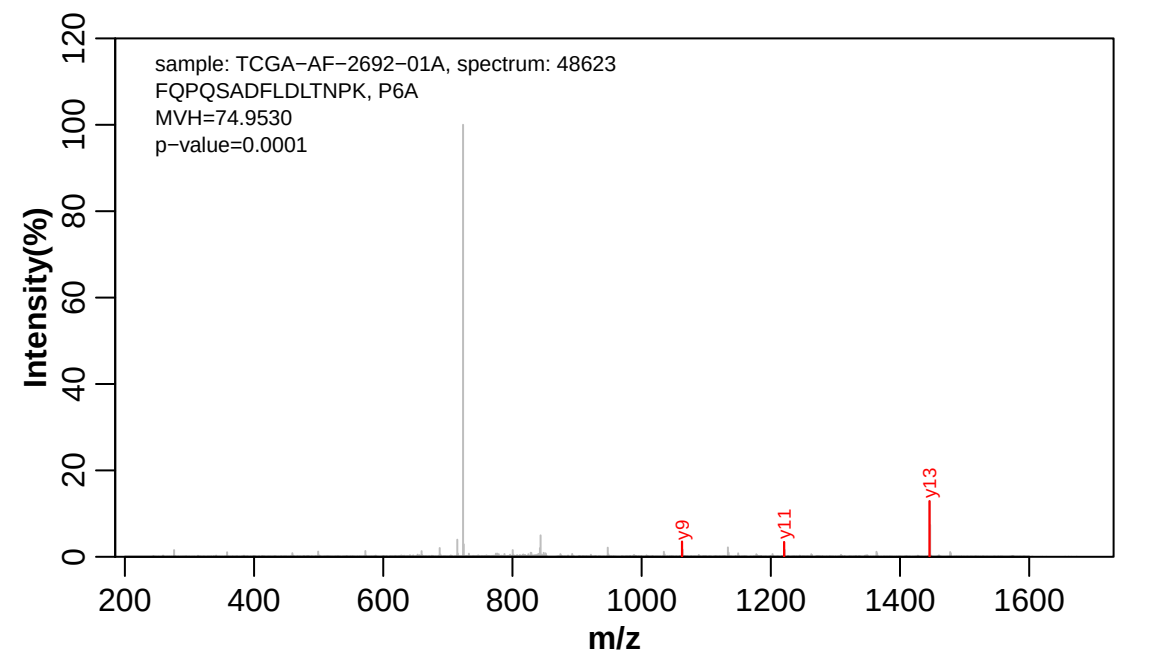

sample: TCGA−AF−2692−01A, spectrum: 41967
FLGQLLTAFPALR, A3G
MVH=44.7310
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
y4
b5−NH3
b5
y5
y6
b6
y7
b8
y8
y9
b9
y11
b12−NH3
b12

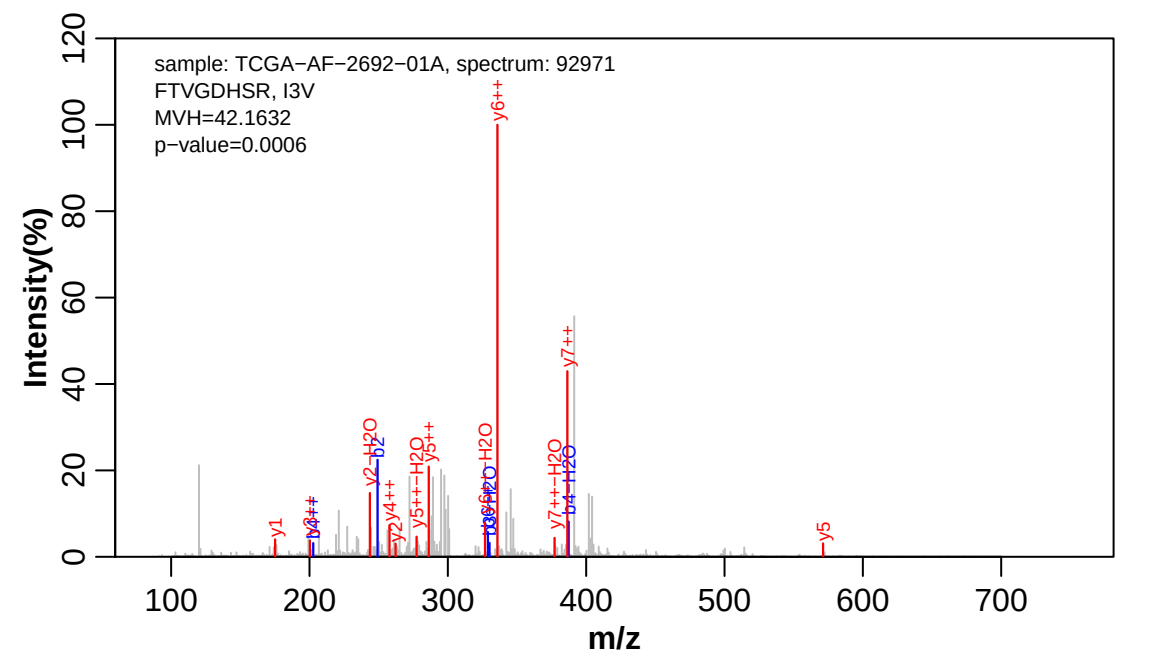

sample: TCGA−AF−2692−01A, spectrum: 34397
FLPLPMVQLLDR, V6M
MVH=57.7997
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b4
y8
y10

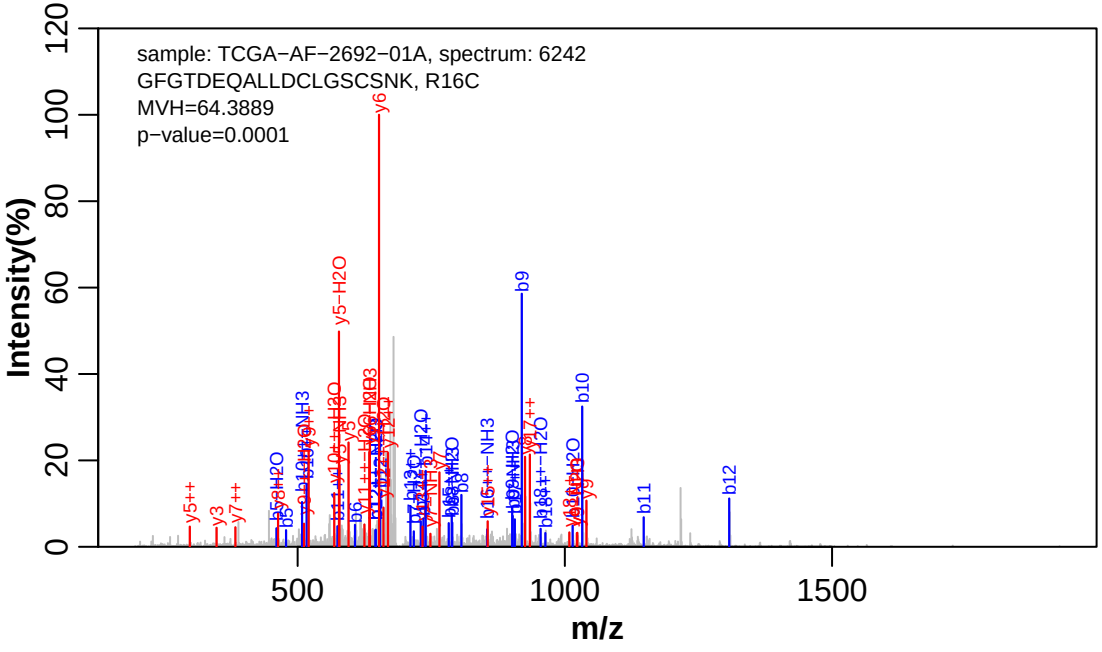

sample: TCGA−AF−2692−01A, spectrum: 62940
FLSGHTSELGNFR, D11N
MVH=47.7968
p−value=0.0001
y11++
y11++−H2O
b9++−H2O
y12++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

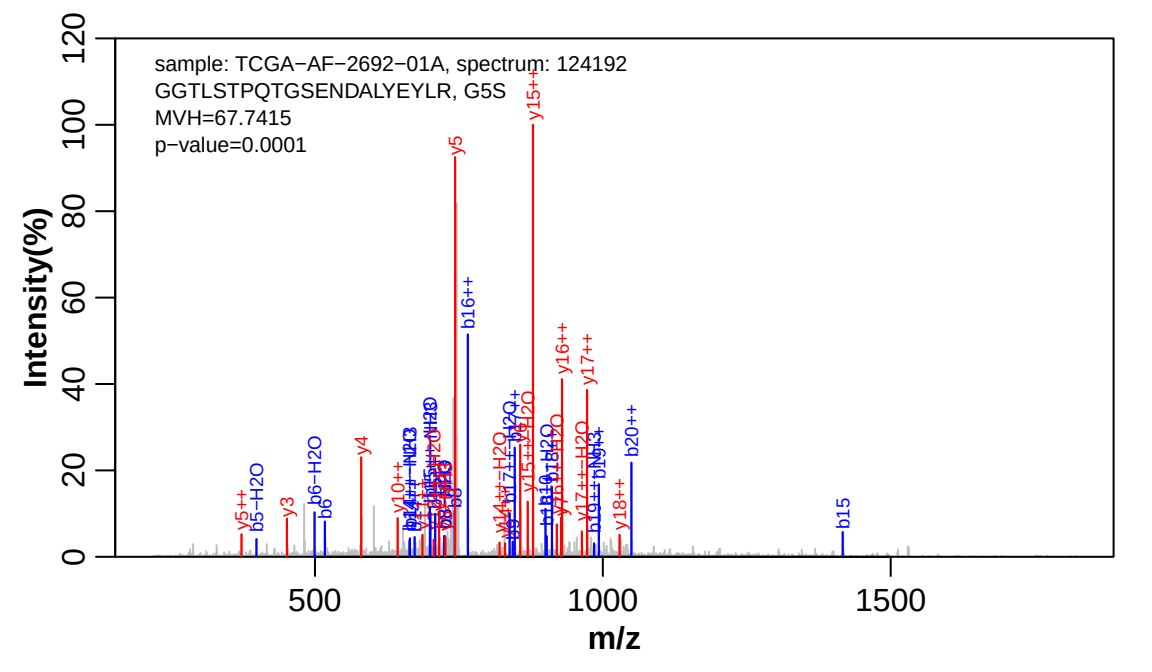

sample: TCGA−AF−2692−01A, spectrum: 54813
FLSLESDR, G6S
MVH=39.5114
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
y3
b4−H2O
b4
y4
y5
y6

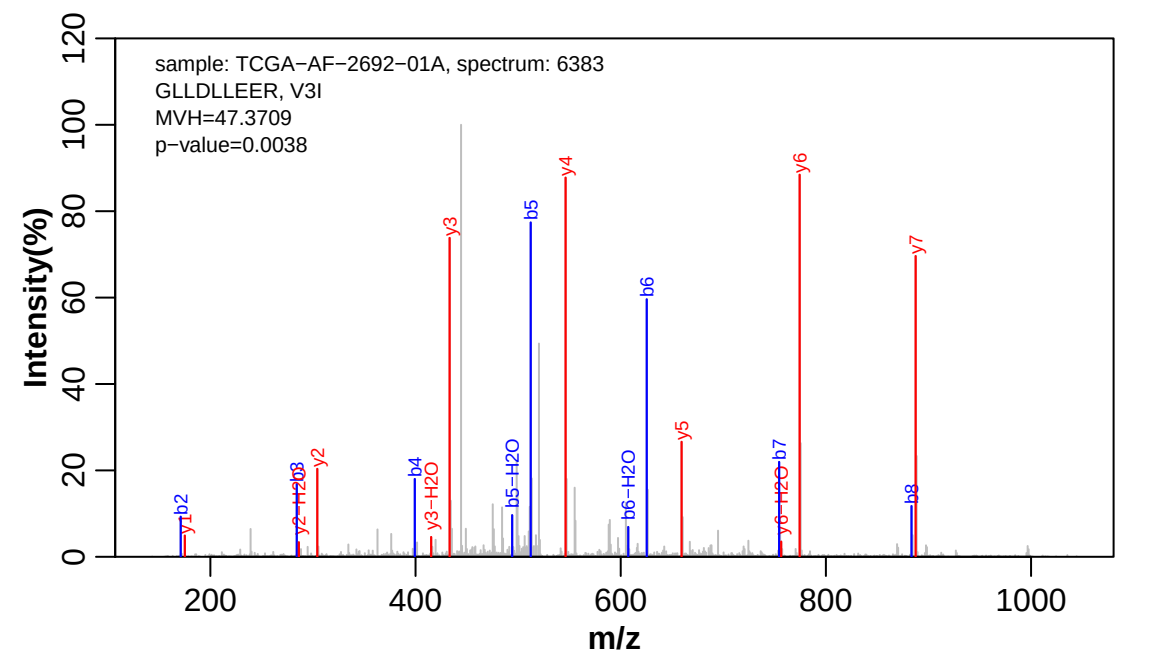

sample: TCGA−AF−2692−01A, spectrum: 7397
FNKPFVFLMLDQNTK, E11D
MVH=63.1834
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
b3
y7++
b7++
b8++
b8++−H2O
y9++−NH3
y9++
y10++−NH3
y10++
b11++
y6
b12++
b17++
b7
b8

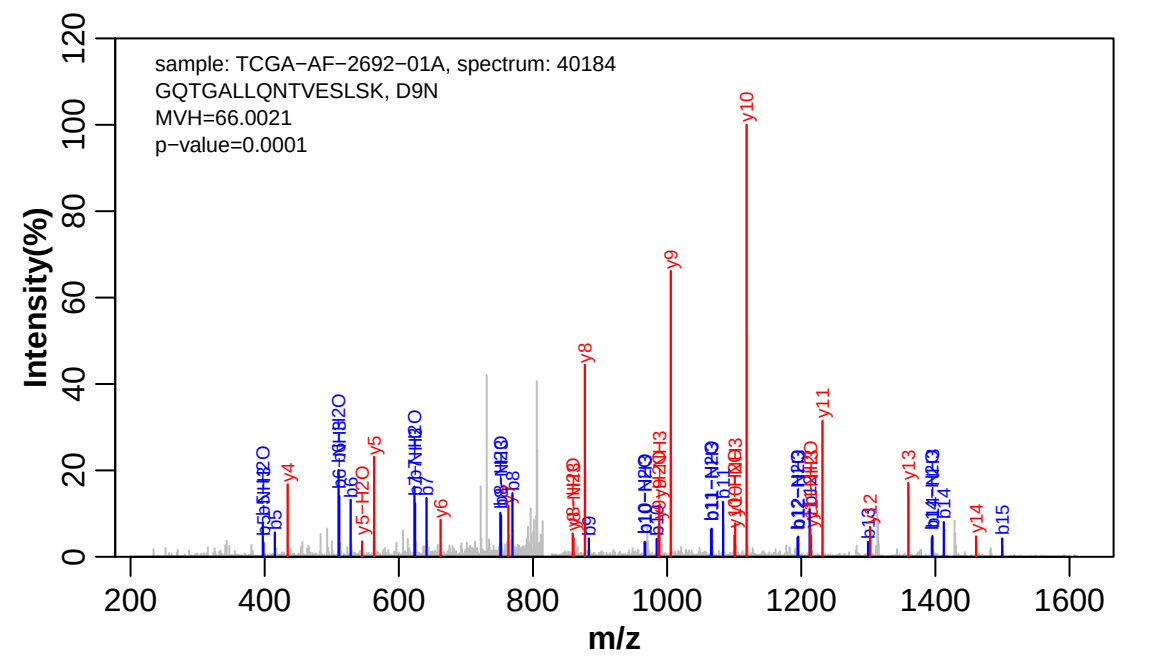

sample: TCGA−AF−2692−01A, spectrum: 48623
FQPQSADFLDLTNPK, P6A
MVH=74.9530
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
y9
y11
y13

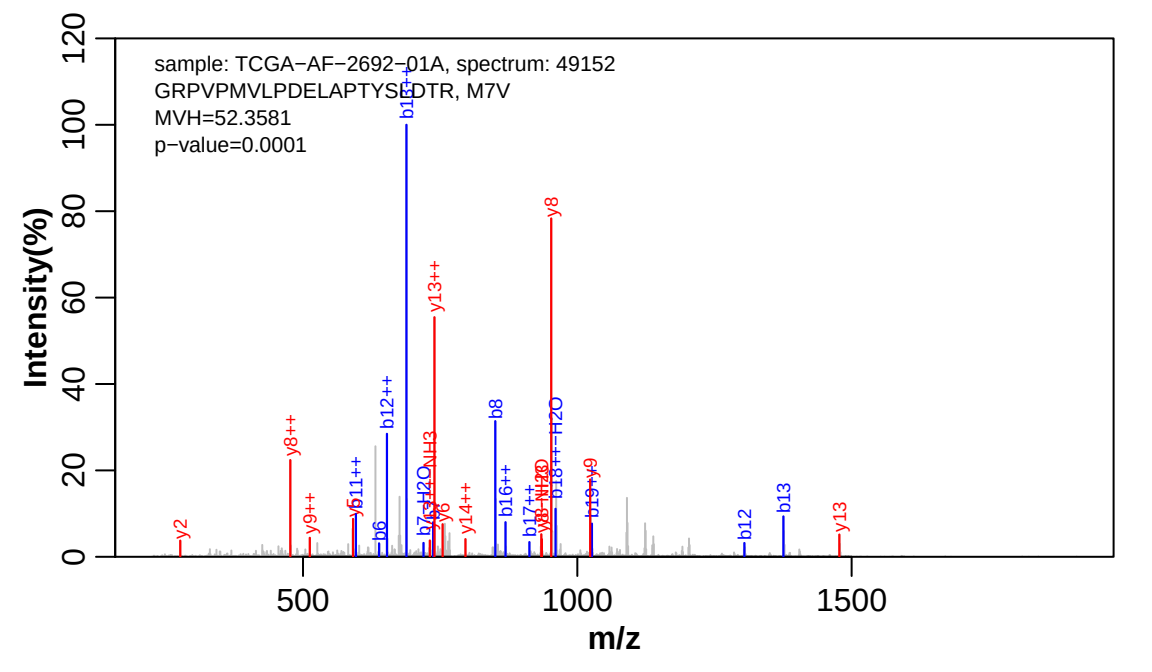

sample: TCGA−AF−2692−01A, spectrum: 92971
FTVGDHSR, I3V
MVH=42.1632
p−value=0.0006
Intensity(%)
m/z
y6++
y7++
y2−b2
y4++
y5++−H2O
y5++
y7++−H2O
b4−H2O
y1
y5

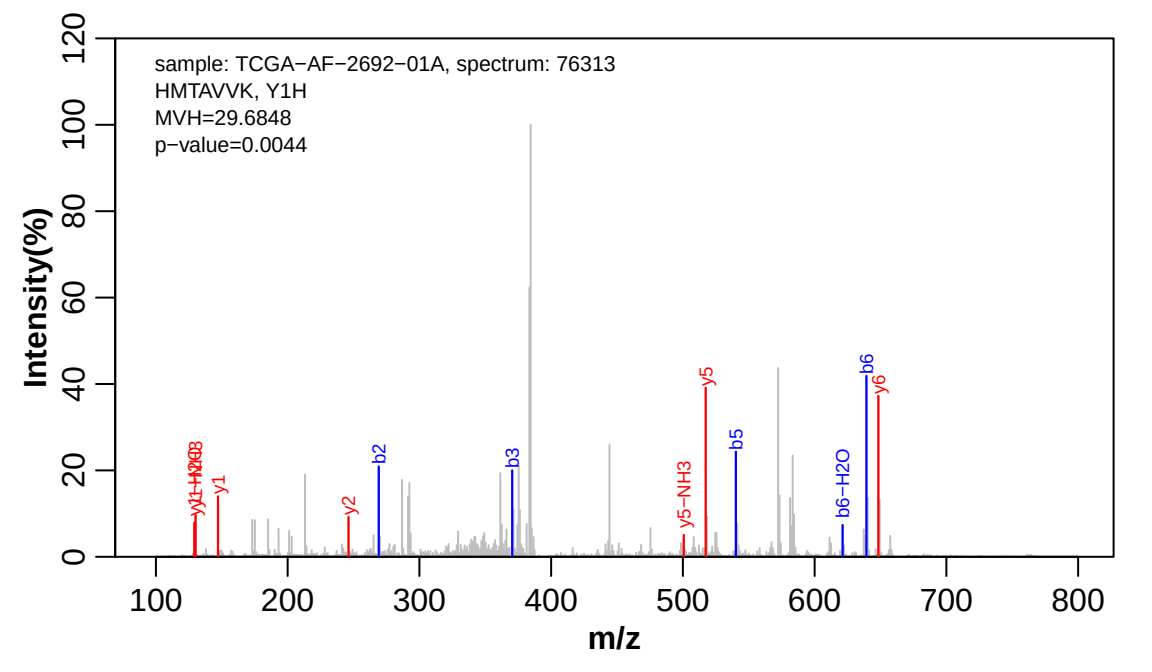

sample: TCGA−AF−2692−01A, spectrum: 6242
GFGTDEQALLDCLGSCSNK, R16C
MVH=64.3889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
b11
y5++
y3
y7++
b5−H2O
b5
b6
b8
y9
y10
y11
y12
b15++−NH3
b7++−H2O
y7
y8
y4
y2
b2
b3
b4

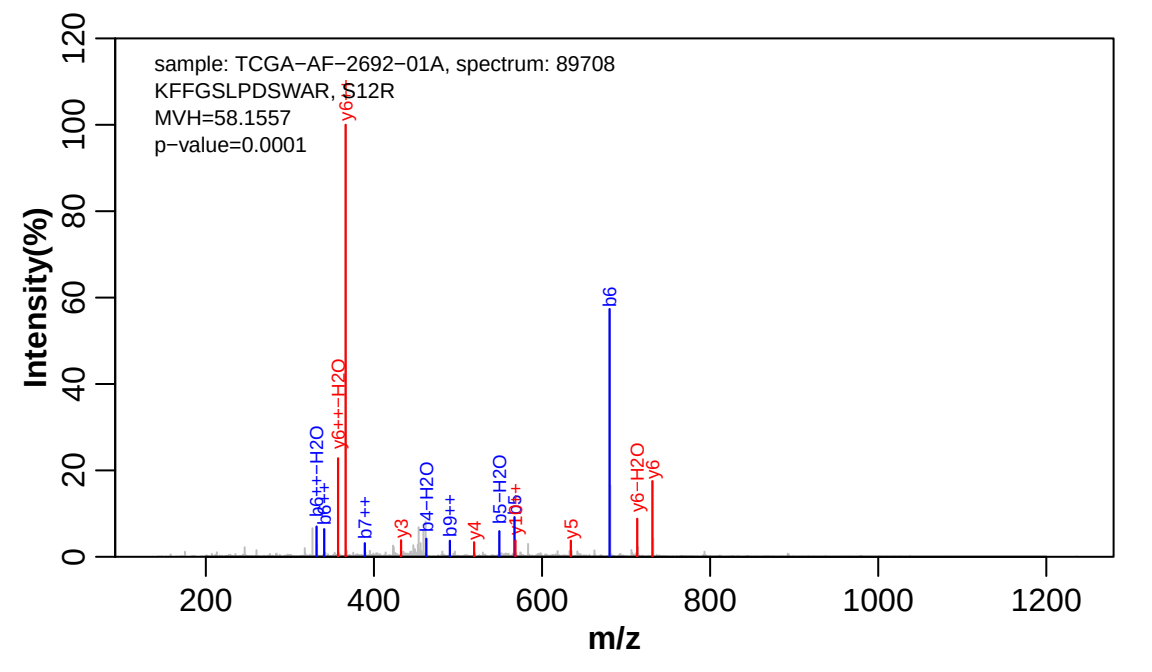

sample: TCGA−AF−2692−01A, spectrum: 124192
GGTLSTPQTGSENDALYEYLR, G5S
MVH=67.7415
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y5
b16++
y16++
y17++
y4
b20++
y5++
b5−H2O
y3
b6−H2O
b6
y10++
b15

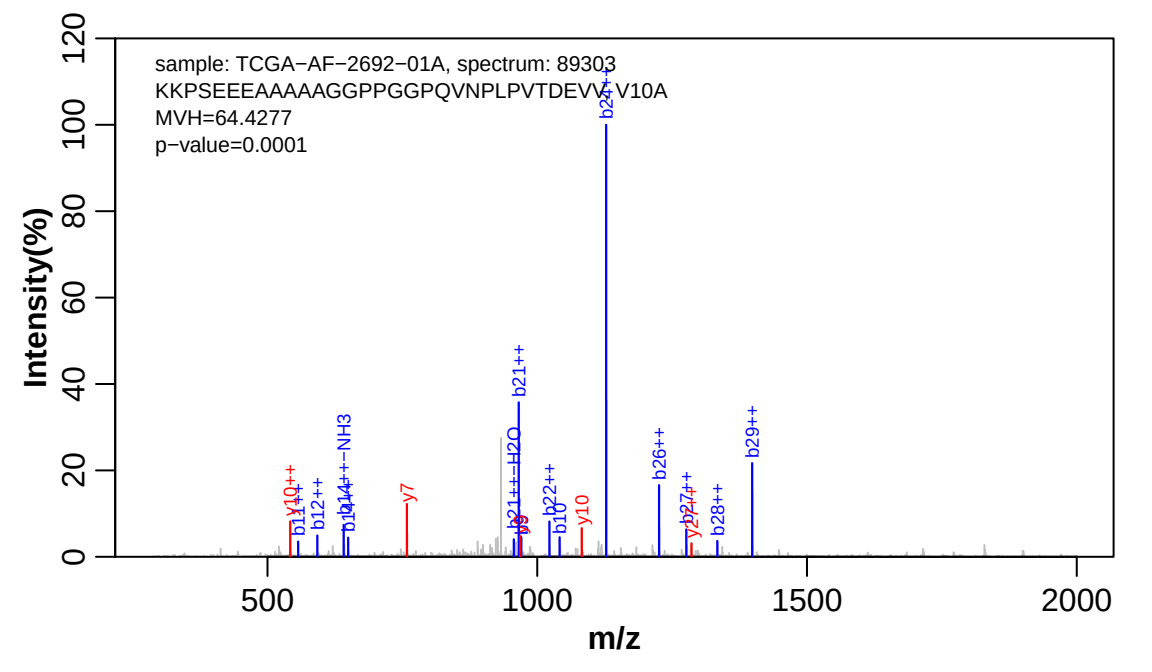

sample: TCGA−AF−2692−01A, spectrum: 6383
GLLDLLEER, V3I
MVH=47.3709
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2−H2O
b3
y2
b4
y3−H2O
y3
b5
b5−H2O
y4
b6−H2O
b6
y5
y6−H2O
b7
y6
b8
y7

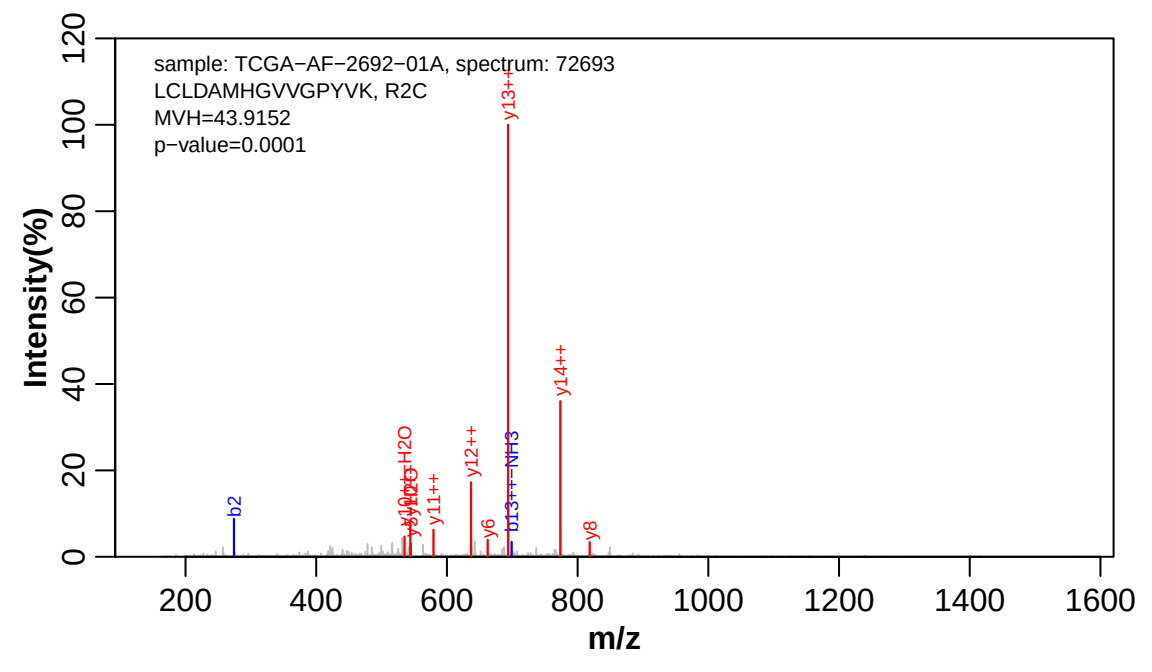

sample: TCGA−AF−2692−01A, spectrum: 40184
GQTGALLQNTVESLSK, D9N
MVH=66.0021
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y4
y5
y6
b15

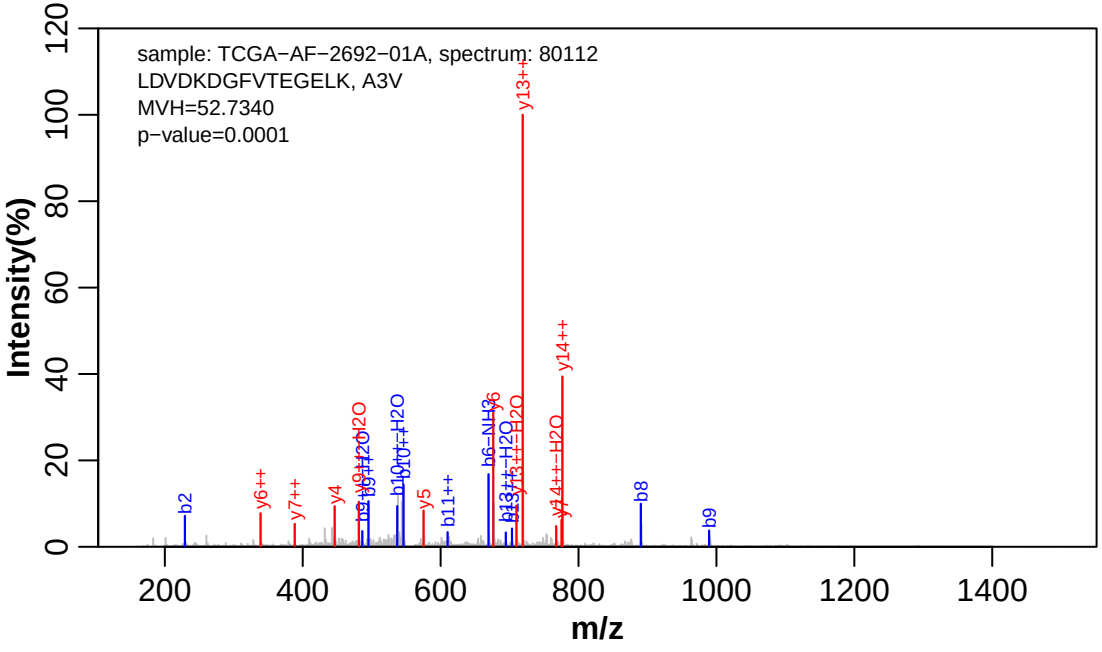

sample: TCGA−AF−2692−01A, spectrum: 49152
GRPVPMVLPDELAPTYSEDTR, M7V
MVH=52.3581
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y8++
y9++
y11++
b6
b12++
b7-H2O
b7-NH3
y8
y13++
b1++
y14++
b8
b16++
b17++
y8-NH3
y8-H2O
b18++-H2O
b19++y9
b12
b13
y13

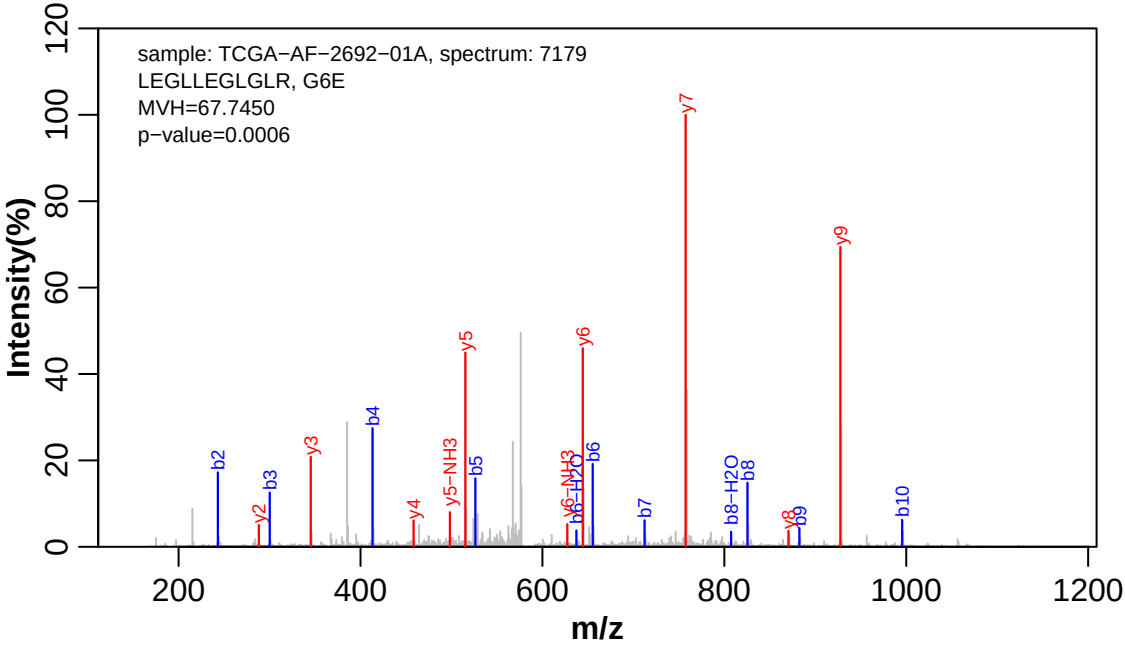

sample: TCGA−AF−2692−01A, spectrum: 76313
HMTAVVK, Y1H
MVH=29.6848
p−value=0.0044
Intensity(%)
m/z
y1
b2
b3
y5
y5−NH3
b5
b6−H2O
b6
y6

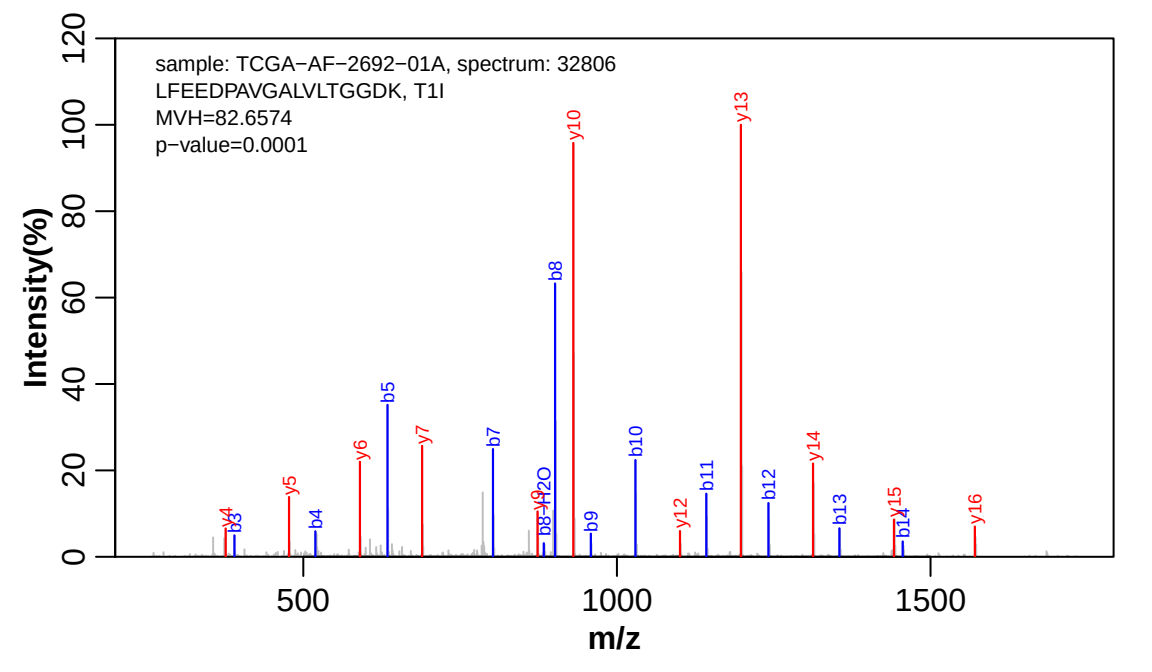

sample: TCGA−AF−2692−01A, spectrum: 89708
KFFGSLPDSWAR, S12R
MVH=58.1557
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++
y6++−H2O
b6++−H2O
b6++
b7++
y3
b4−H2O
b9++
y4
b5−H2O
y10b5+
y5
b6
y6−H2O
y6

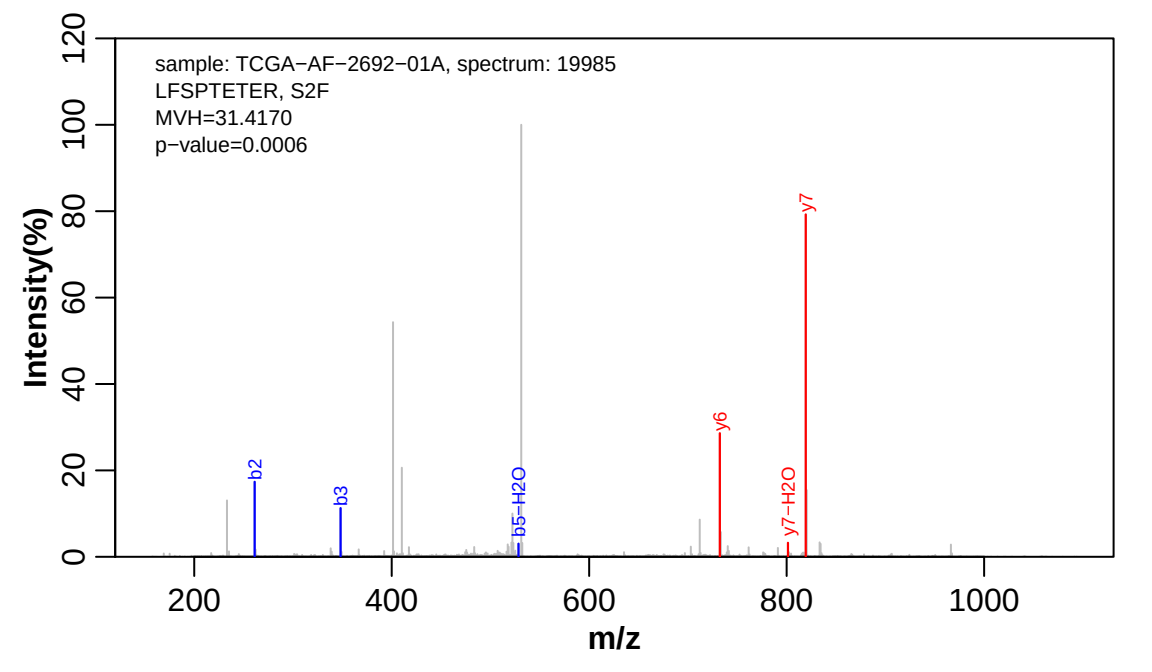

sample: TCGA−AF−2692−01A, spectrum: 89303
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=64.4277
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b21++
b21++−NH3
b21++−H2O
b29++
b26++
b22++
b27++
y10++
b11++
b12++
b14++
y7
y9
b10
y10
y27++
b28++

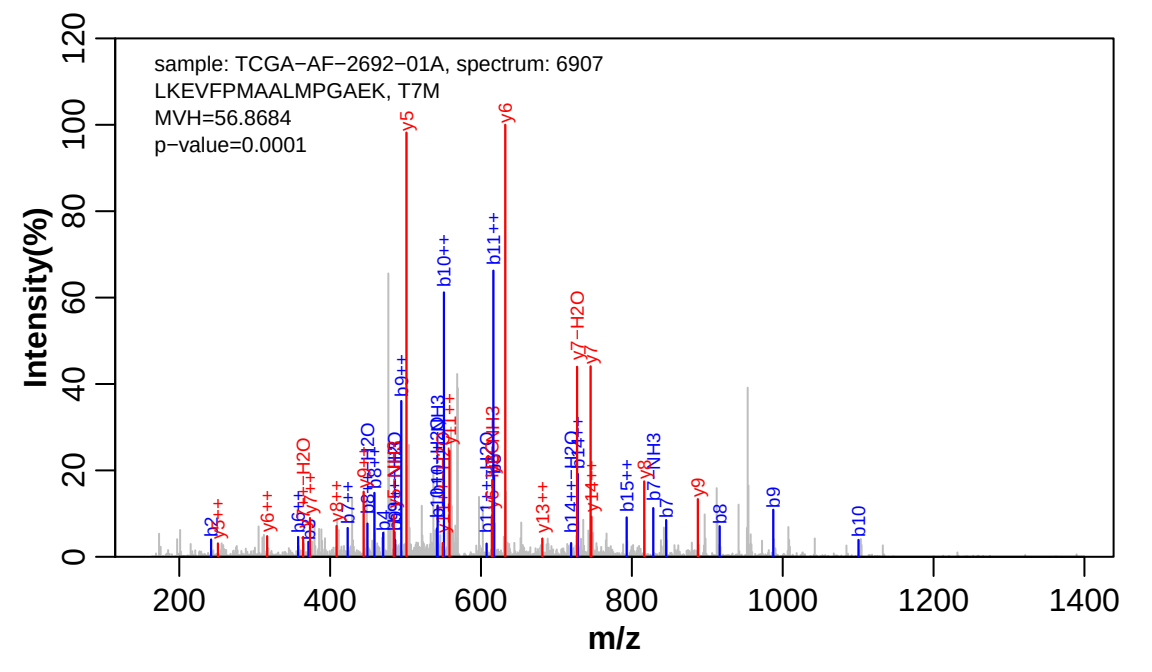

sample: TCGA−AF−2692−01A, spectrum: 72693
LCLDAMHGVVGPYVK, R2C
MVH=43.9152
p−value=0.0001
Intensity(%)
m/z
b2
y11++
y12++
y6
b13++−NH3
y13++
y14++
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

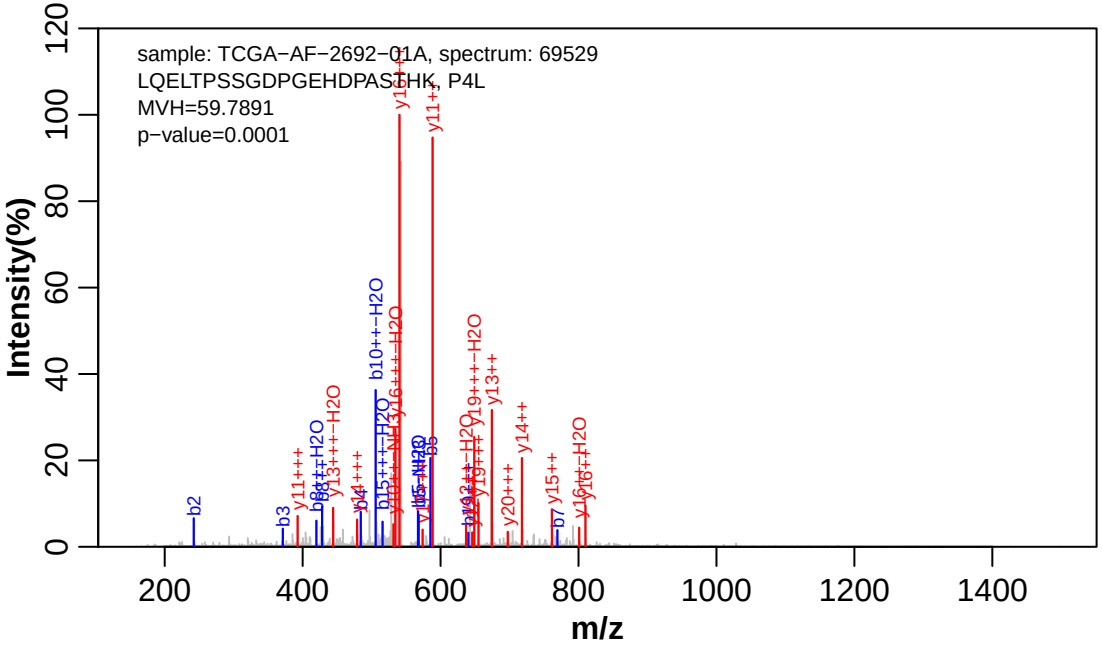

sample: TCGA−AF−2692−01A, spectrum: 80112
LDVDKDGFVTEGELK, A3V
MVH=52.7340
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y6++
y7++
y4
y5
b11++
y13++
y14++
b8
b9

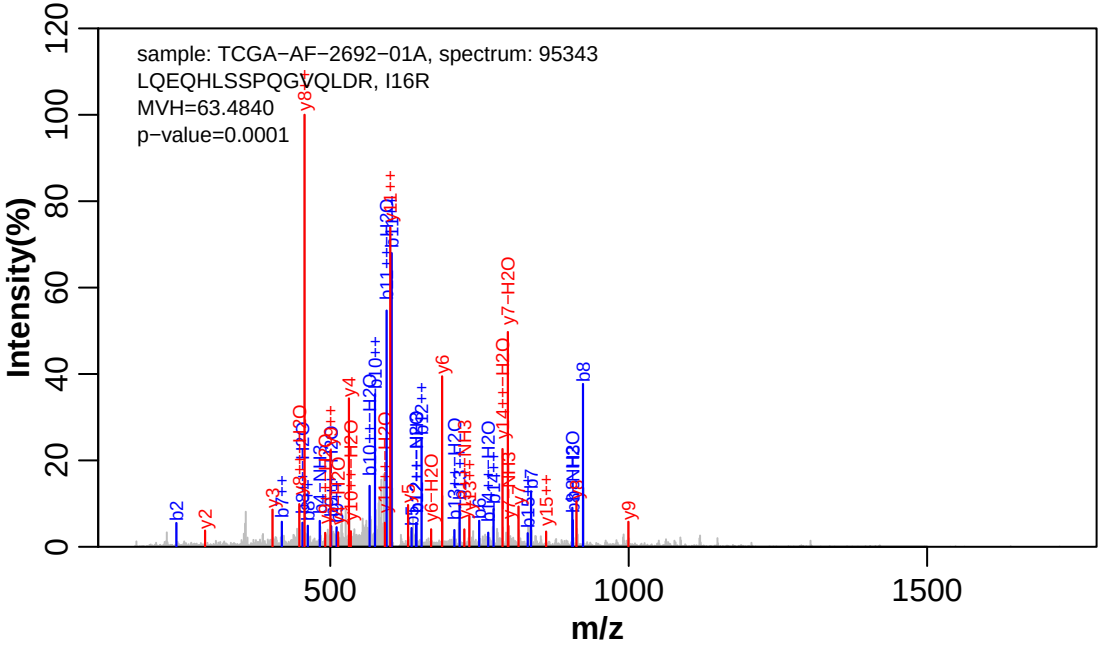

sample: TCGA−AF−2692−01A, spectrum: 7179
LEGLLEGLGLR, G6E
MVH=67.7450
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4
y5−NH3
y5
b5
y6−NH3
b6−H2O
y6
b6
b7
b8−H2O
b8
y8
b9
y7
y9
b10

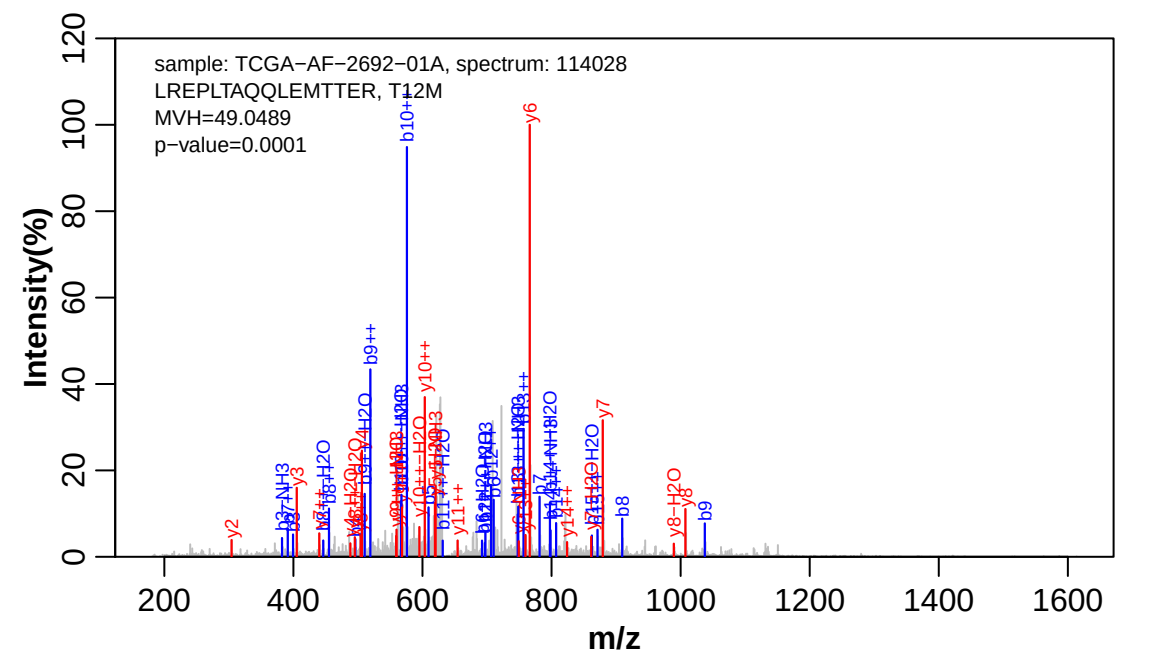

sample: TCGA−AF−2692−01A, spectrum: 32806
LFEEDPAVGALVLTGGDK, T1I
MVH=82.6574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
b7
y5
b4
b3
y4
b8−H2O
b10
b9
y12
b11
b12
y14
b13
y15
b14
y16

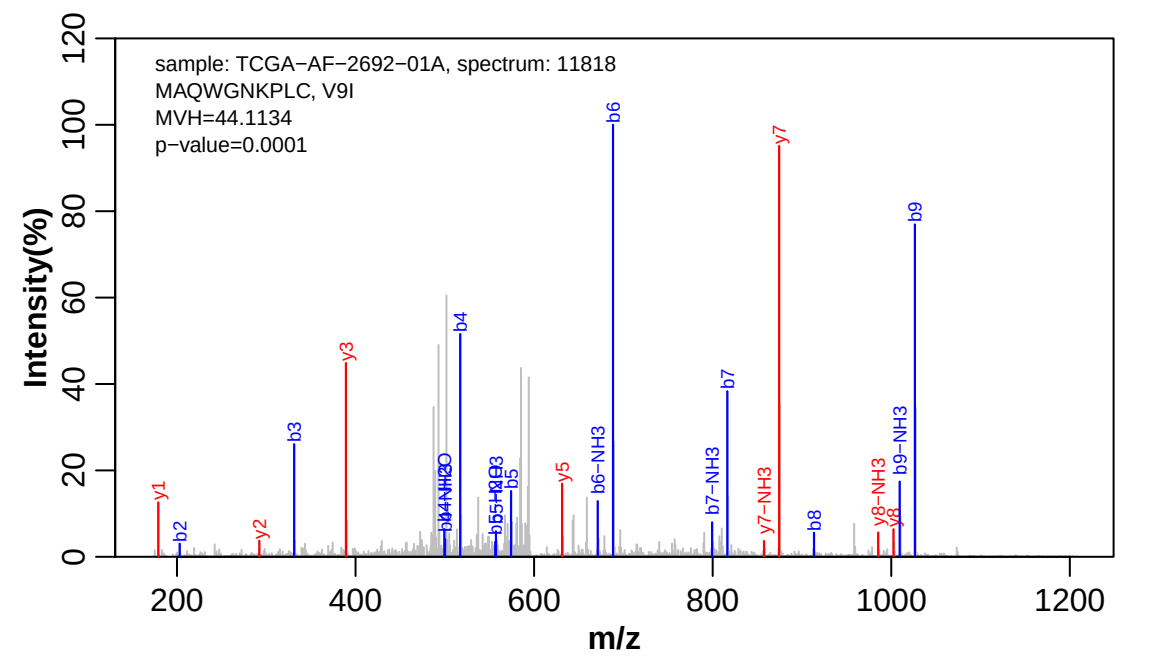

sample: TCGA−AF−2692−01A, spectrum: 19985
LFSPTETER, S2F
MVH=31.4170
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b5−H2O
y6
y7
y7−H2O

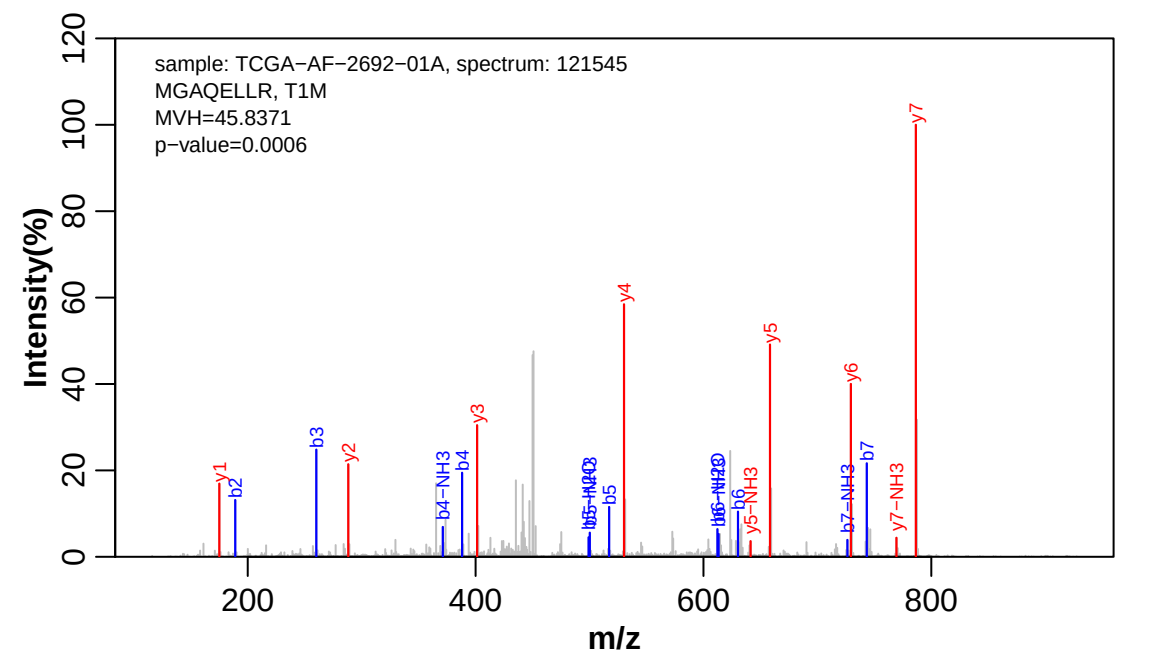

sample: TCGA−AF−2692−01A, spectrum: 6907
LKEVFPMAALMPGAEK, T7M
MVH=56.8684
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y6
b10++
b11++
y7−H2O
b9++
y11++
y6++
b2
y5++
b14++−H2O
y14++
b15++
y13++
b7−NH3
y9
b8
b9
b10

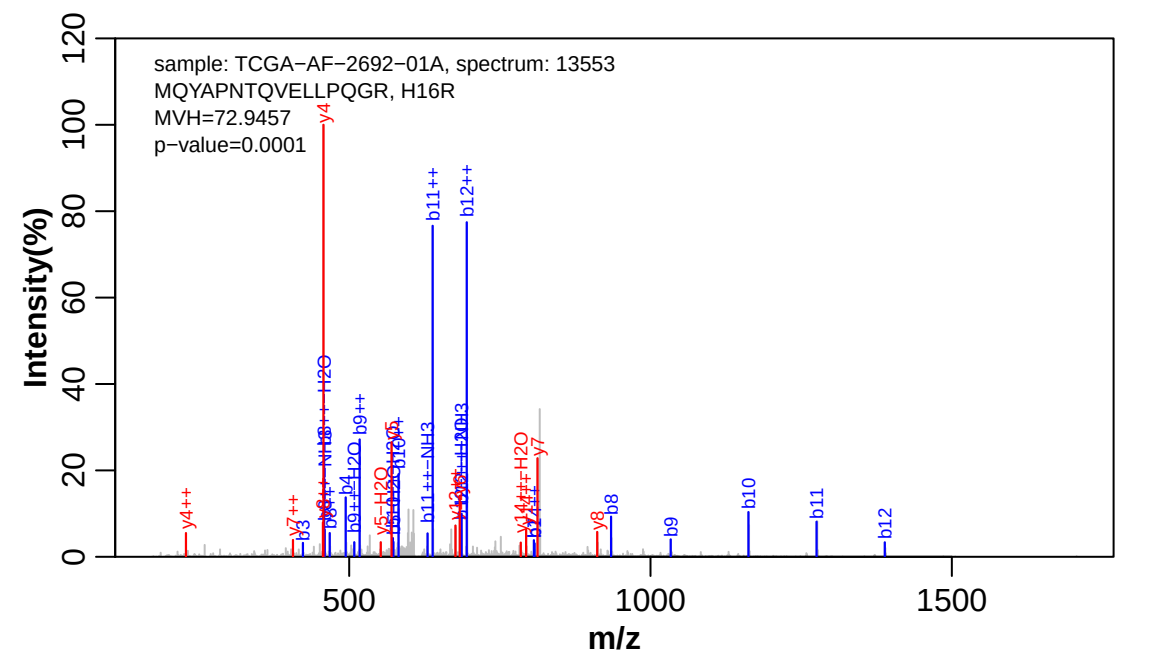

sample: TCGA−AF−2692−01A, spectrum: 69529
LQELTPSSGDPGEHDPASTHK, P4L
MVH=59.7891
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y11+++
b8++−H2O
y13+++−H2O
y14+++
b10++−H2O
y11++
y19+++−H2O
y13++
y14++
y20++
b7
y15++
y16++−H2O

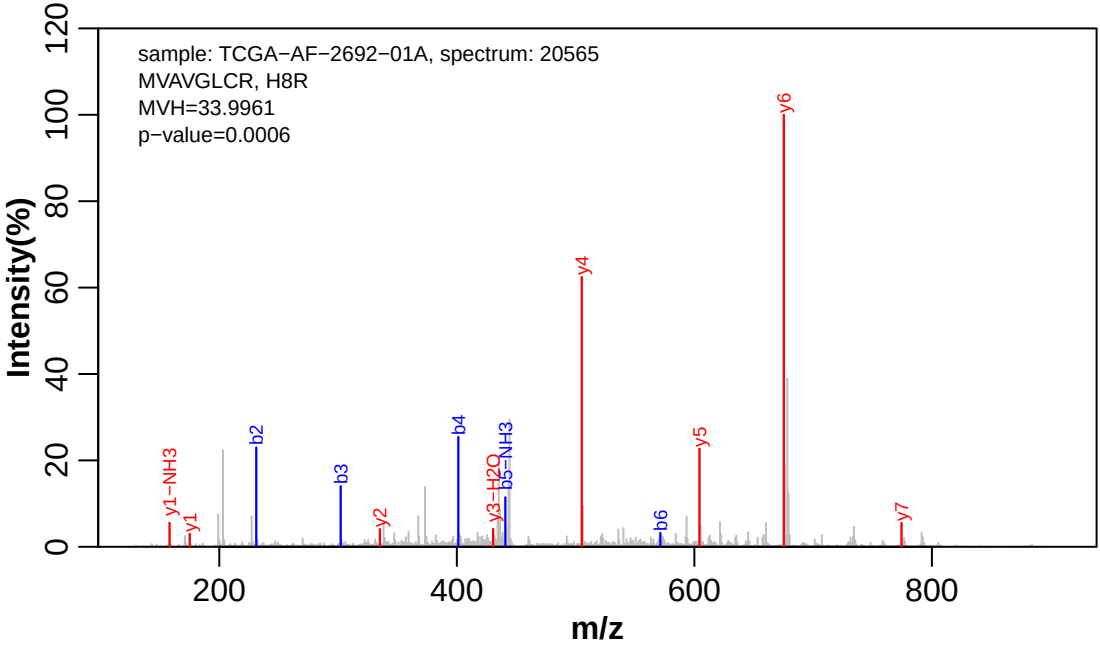

sample: TCGA−AF−2692−01A, spectrum: 95343
LQEQHLSSPQGVQLDR, I16R
MVH=63.4840
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
y3
b7++
y8++
y8
y7−H2O
b8
y9
y6
y6−H2O
y4
y7
b11++−H2O
b10++−H2O
y14++−H2O
b8−NH3
b8−H2O

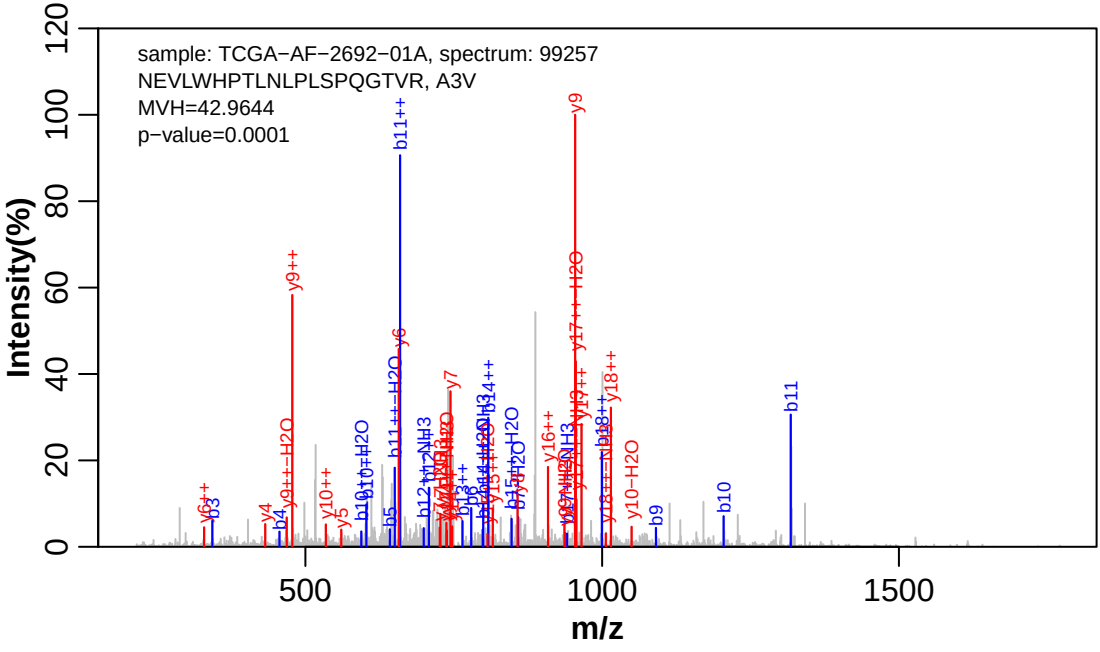

sample: TCGA−AF−2692−01A, spectrum: 114028
LREPLTAQQLEMTTER, T12M
MVH=49.0489
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++
y6
b9++
y10++
y7
b8
y8−H2O
y8
b9
y2
y3
y11++

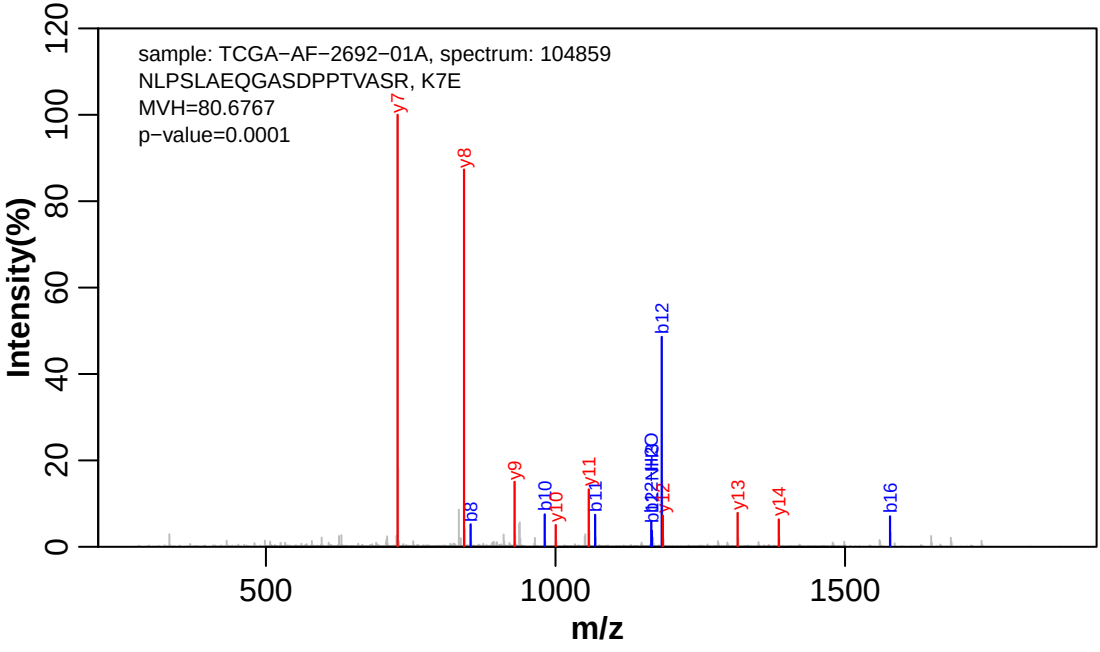

sample: TCGA−AF−2692−01A, spectrum: 11818
MAQWGNKPLC, V9I
MVH=44.1134
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
y2
b3
y3
b4
b4−NH2O
b4−NH3
b5
b5−H2O
b5−NH3
y5
b6
b6−NH3
b7
b7−NH3
y7
y7−NH3
b8
y8
y8−NH3
b9
b9−NH3

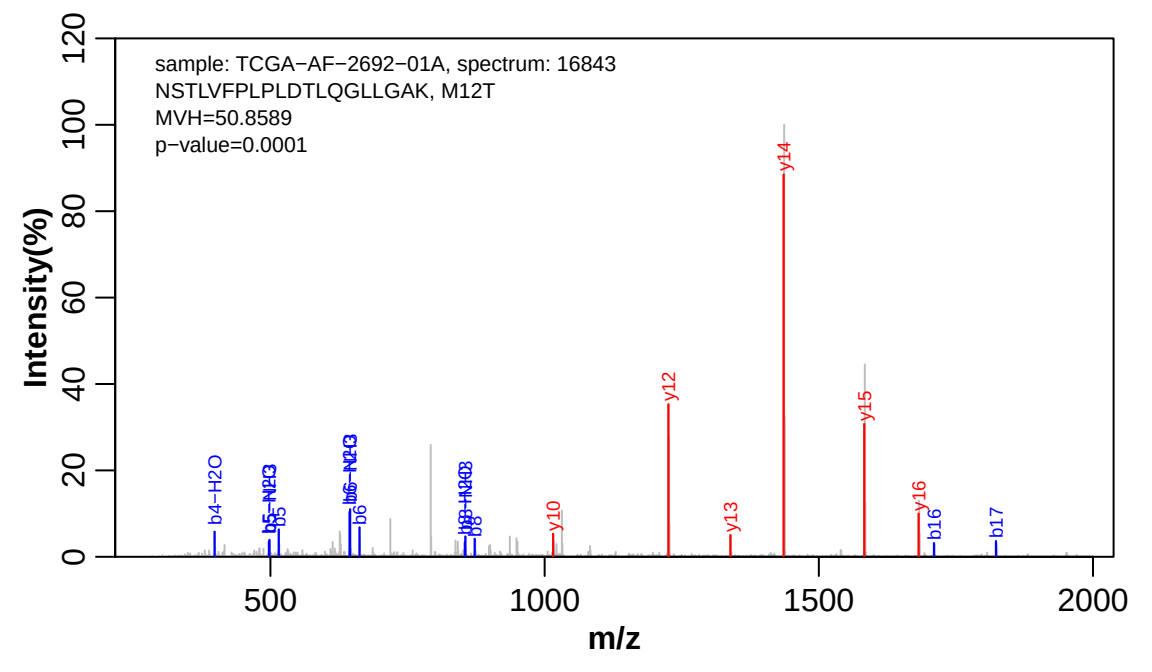

sample: TCGA−AF−2692−01A, spectrum: 121545
MGAQELLR, T1M
MVH=45.8371
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y2
b4−NH3
b4
y3
y4
b5
y5
b6
y5−NH3
y6
b7−NH3
b7
y7−NH3
y7

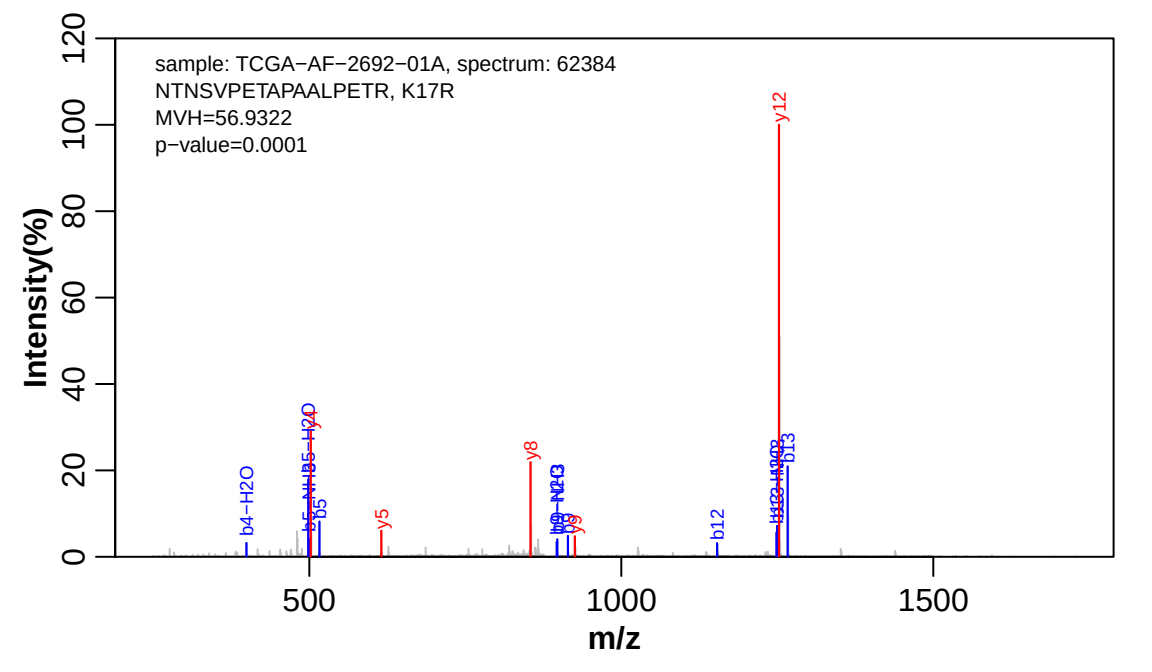

sample: TCGA−AF−2692−01A, spectrum: 13553
MQYAPNTQVELLPQGR, H16R
MVH=72.9457
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y4++
y7++
b3
b11++
b12++
b11++−NH3
b9++
b4
y5−H2O
y7
y8
b8
b9
b10
b11
b12

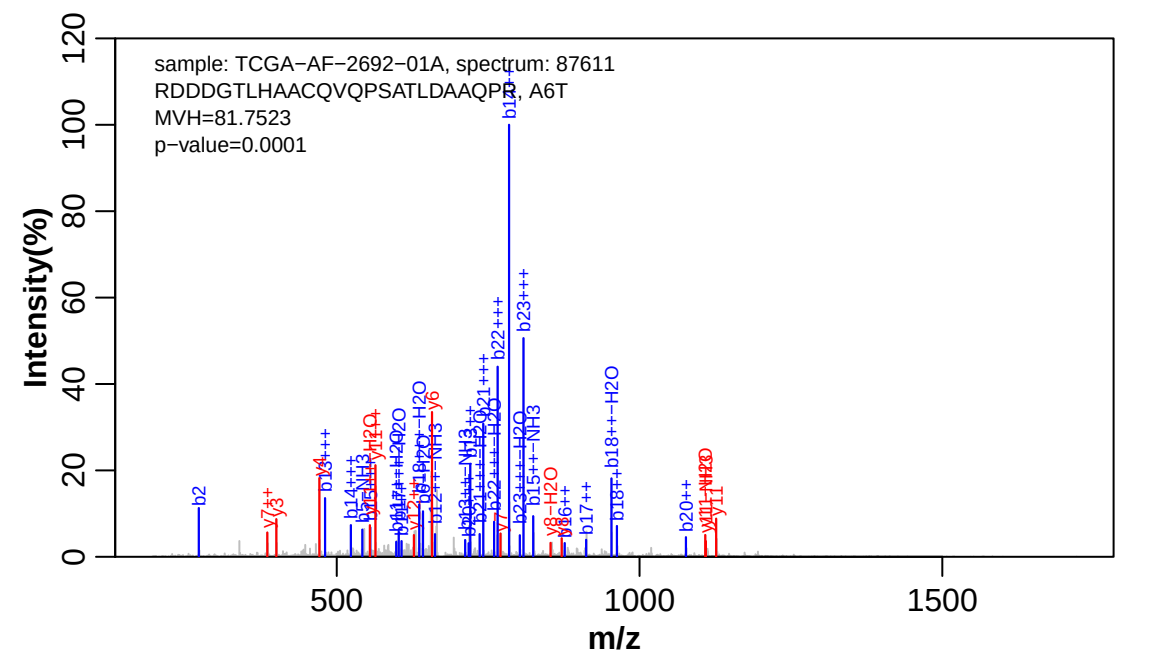

sample: TCGA−AF−2692−01A, spectrum: 20565
MVAVGLCR, H8R
MVH=33.9961
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y2
b4
y3−H2O
b5−NH3
y4
b6
y5
y6
y7

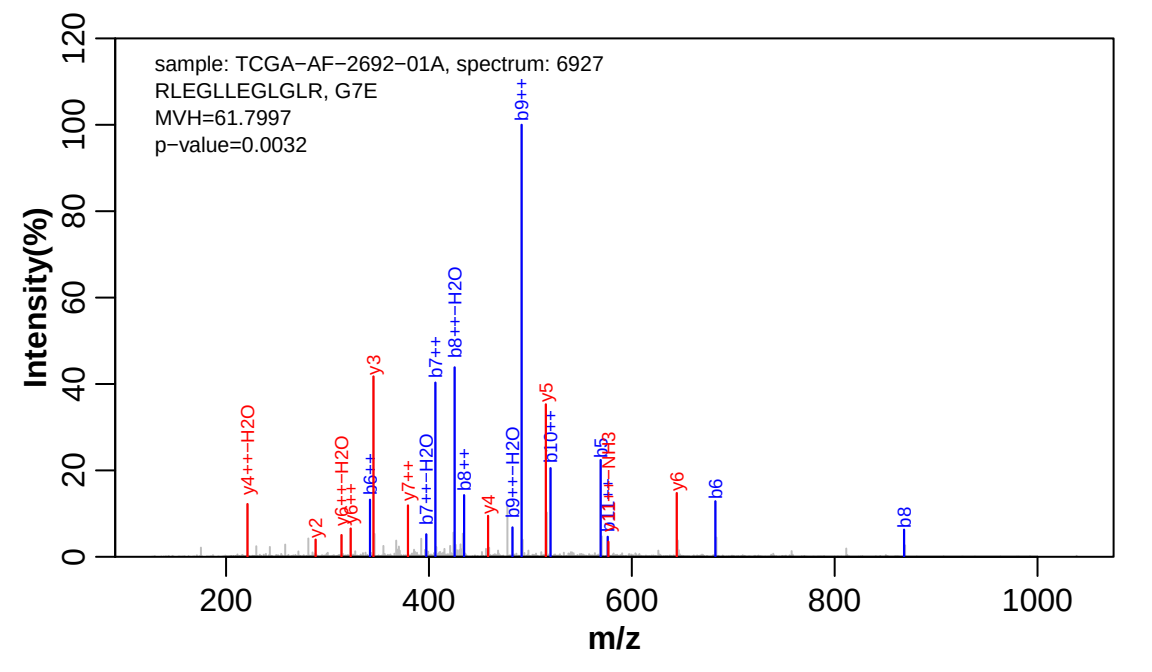

sample: TCGA−AF−2692−01A, spectrum: 99257
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=42.9644
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y9
y9++
y6
y7
y17++ H2O
y18++
b11
b10
b9
y10−H2O
y16++
y6++
b3
y4
b4
y5
y10++
b10+H2O
b5
b11++ H2O
b15++ H2O
b18++

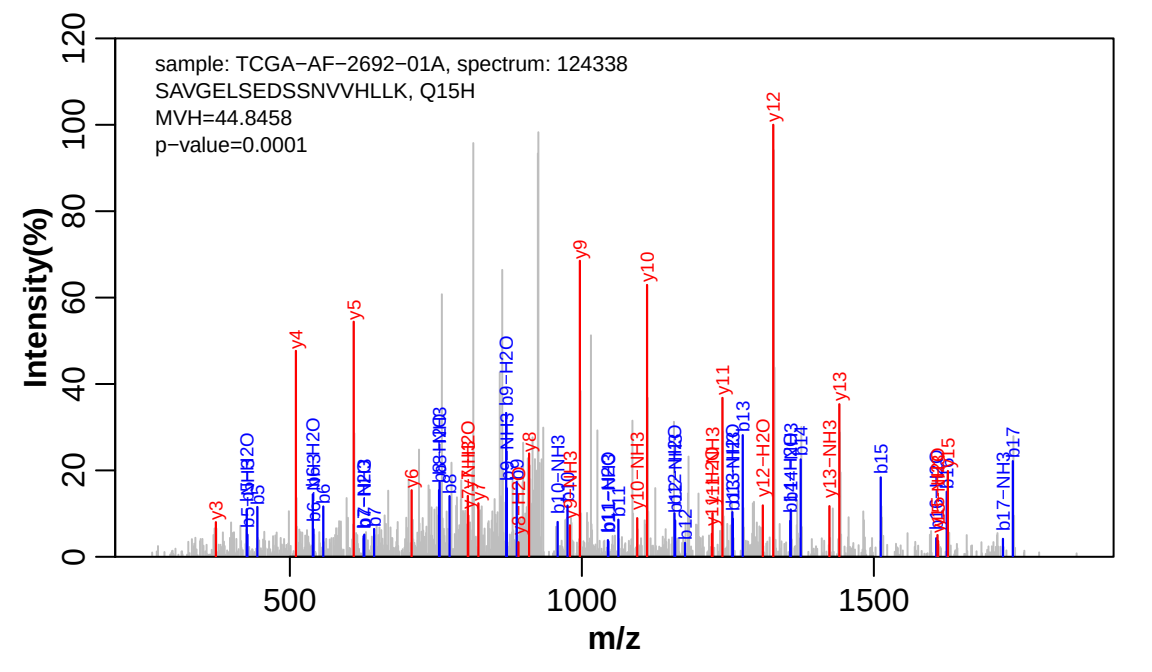

sample: TCGA−AF−2692−01A, spectrum: 104859
NLPSLAEQGASDPPTVASR, K7E
MVH=80.6767
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y8
y9
b8
b10
y10
b11
y11
b12
y12
y13
y14
b16

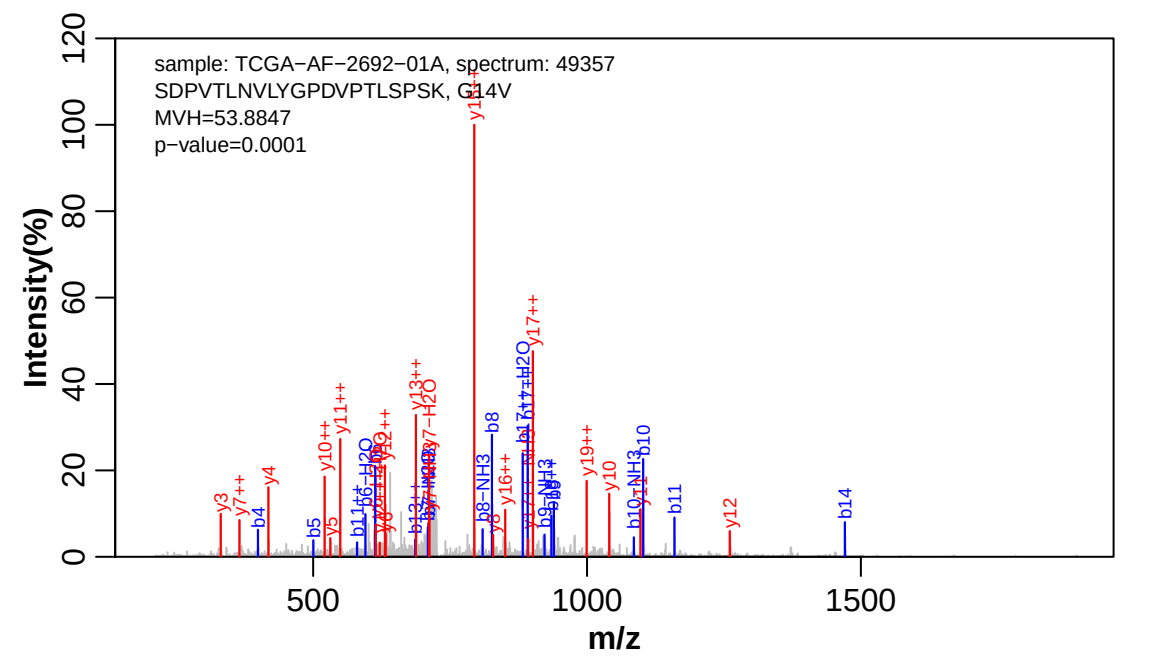

sample: TCGA−AF−2692−01A, spectrum: 16843
NSTLVFPLPLDTLQGLLGAK, M12T
MVH=50.8589
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4−H2O
b5
b6
y10
y12
y13
y14
y15
y16
b16
b17

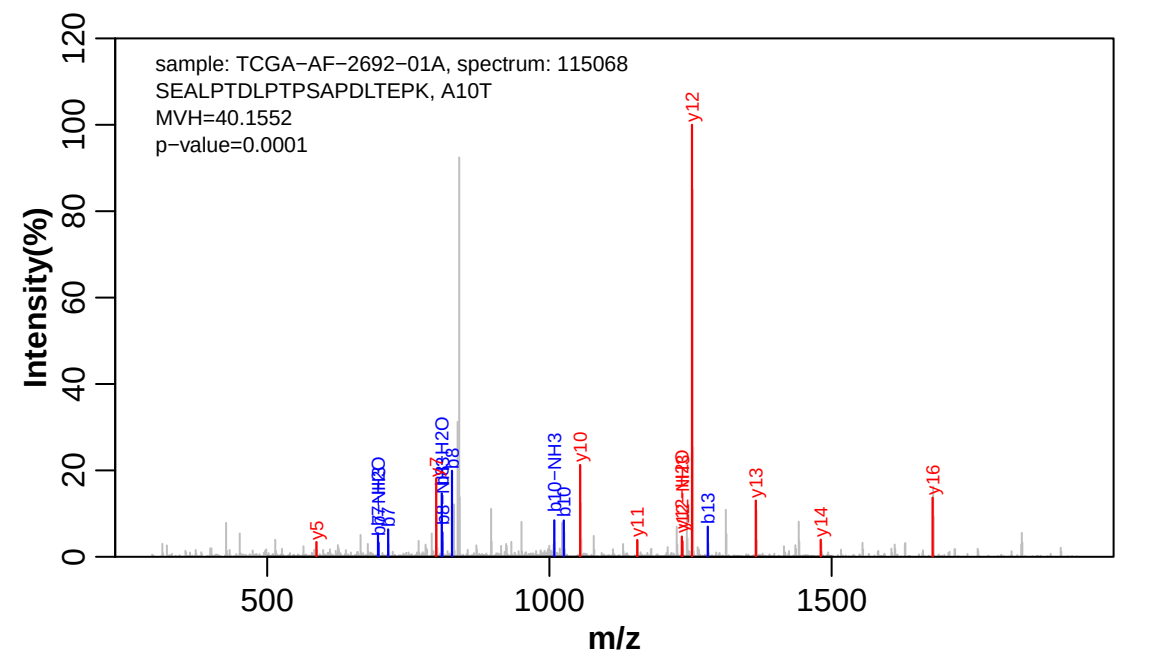

sample: TCGA−AF−2692−01A, spectrum: 62384
NTNSVPETAPAALPETR, K17R
MVH=56.9322
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b4−H2O
b5
b12
b13

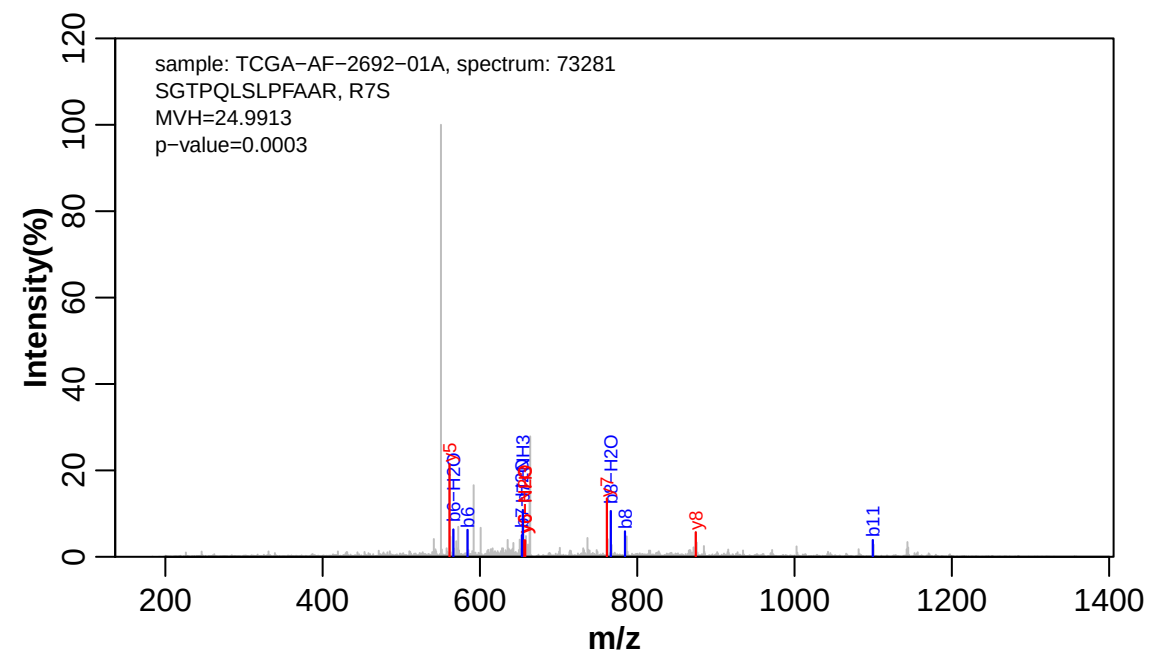

sample: TCGA−AF−2692−01A, spectrum: 87611
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=81.7523
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3++
y3+
b3++
b14+++
b15+++
b16+++
b17+++
b18+++
b19+++
b20+++
b21+++
b22+++
b23+++
b12++−NH3
b12++−H2O
b15++−NH3
b15++−H2O
b18++−H2O
b17++
b20++
y11++

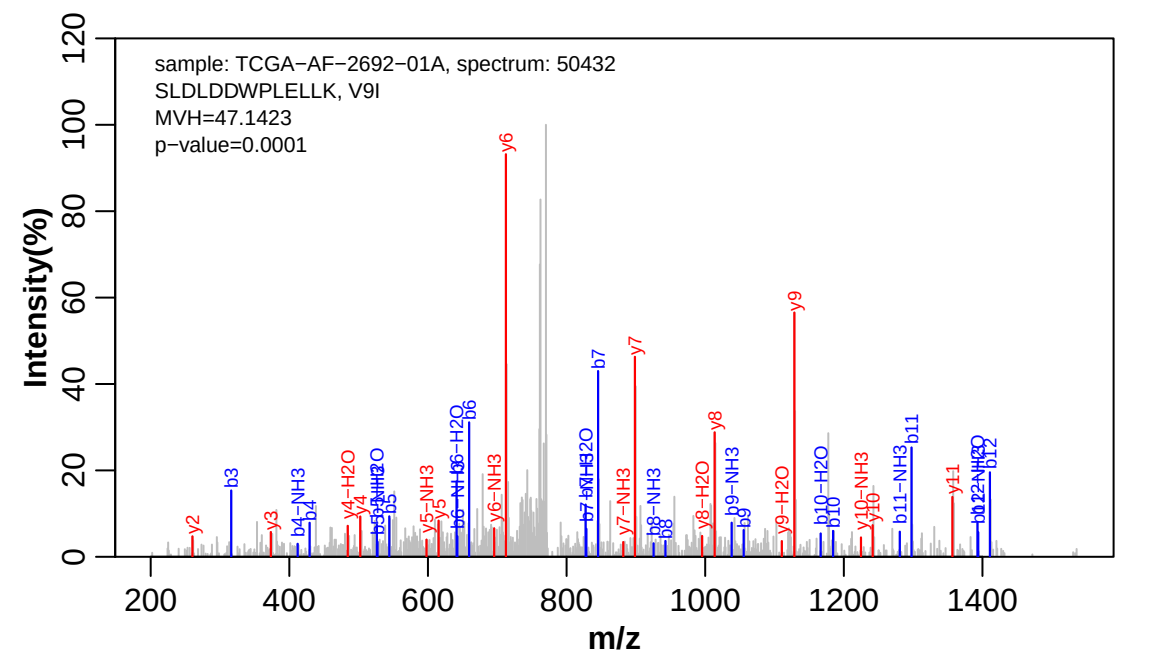

sample: TCGA−AF−2692−01A, spectrum: 6927
RLEGLLEGLGLR, G7E
MVH=61.7997
p−value=0.0032
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y4++−H2O
y2
y6++−H2O
y6++
b6++
y3
b7++−H2O
y7++
b7++
b8++−H2O
b8++
y4
b9++−H2O
b9++
b10++
y5
b5
y11++−NH3
y6
b6
b8

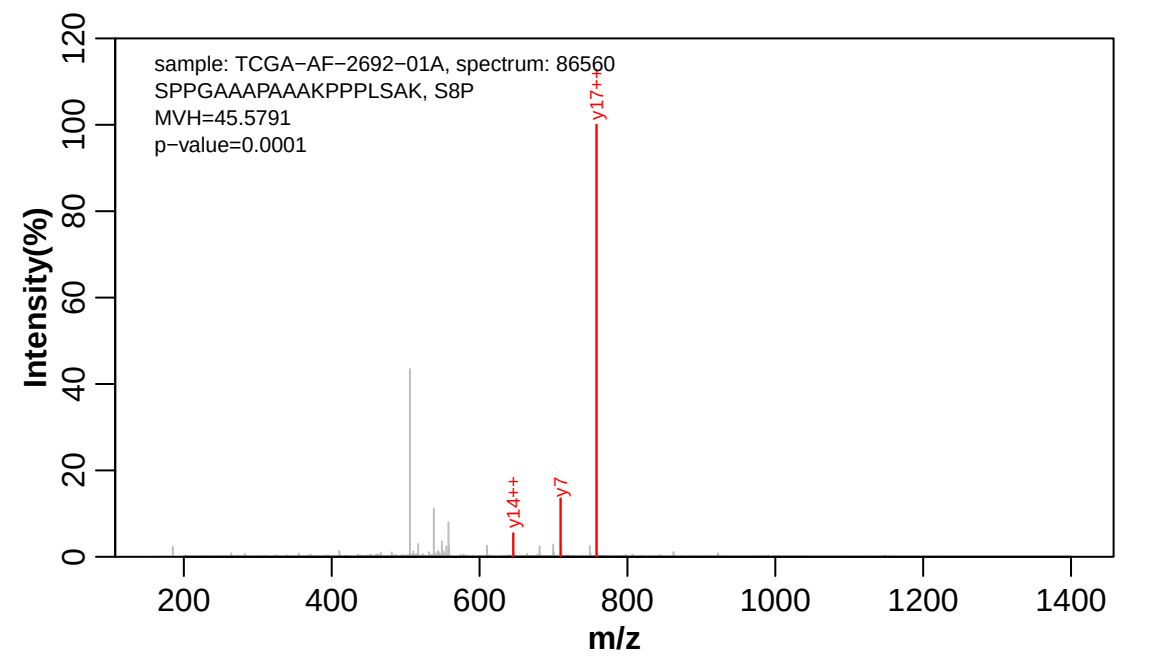

sample: TCGA−AF−2692−01A, spectrum: 124338
SAVGELSEDSSNVVHLLK, Q15H
MVH=44.8458
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y10
y5
y4
y13
y11
b9−H2O
b15
b17
b17−NH3
y13−NH3
y12−H2O
y10−NH3
y8
y6
y3

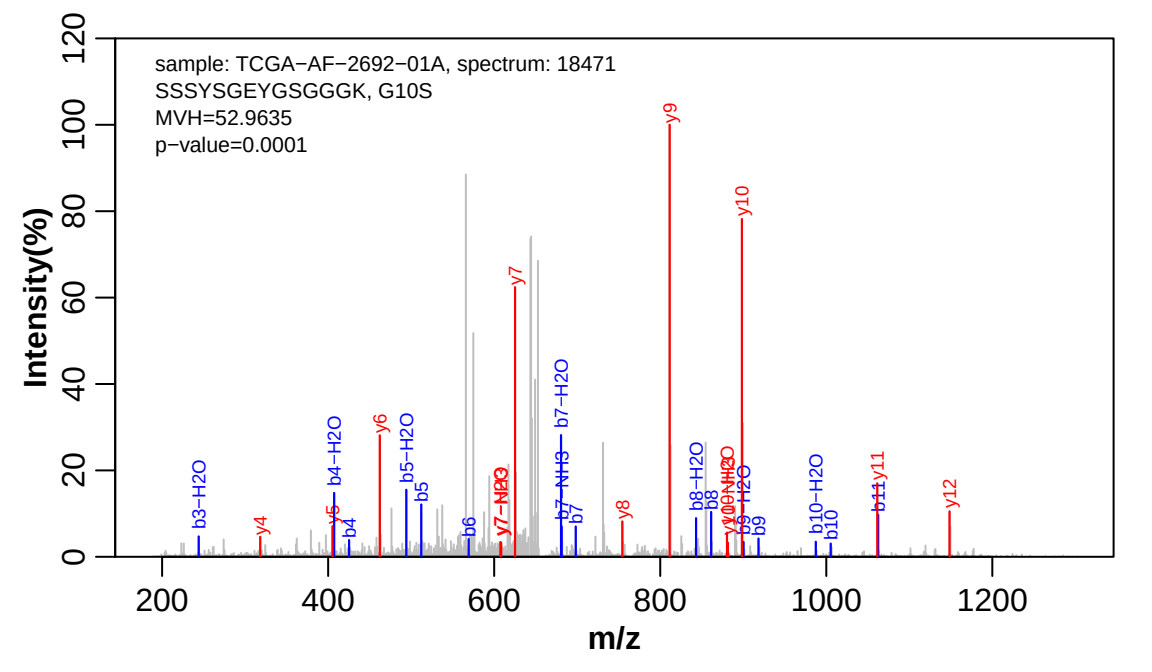

sample: TCGA−AF−2692−01A, spectrum: 49357
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=53.8847
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y7++
b4
y4
b5
y5
y10++
y11++
b11−H2O
b6−H2O
y12++
y13++
b13++
y8−H2O
y18++
b8−NH3
b8
y6
y16++
y17++
b17++−H2O
y19++
y10
b10−NH3
b10
b11
y12
b14

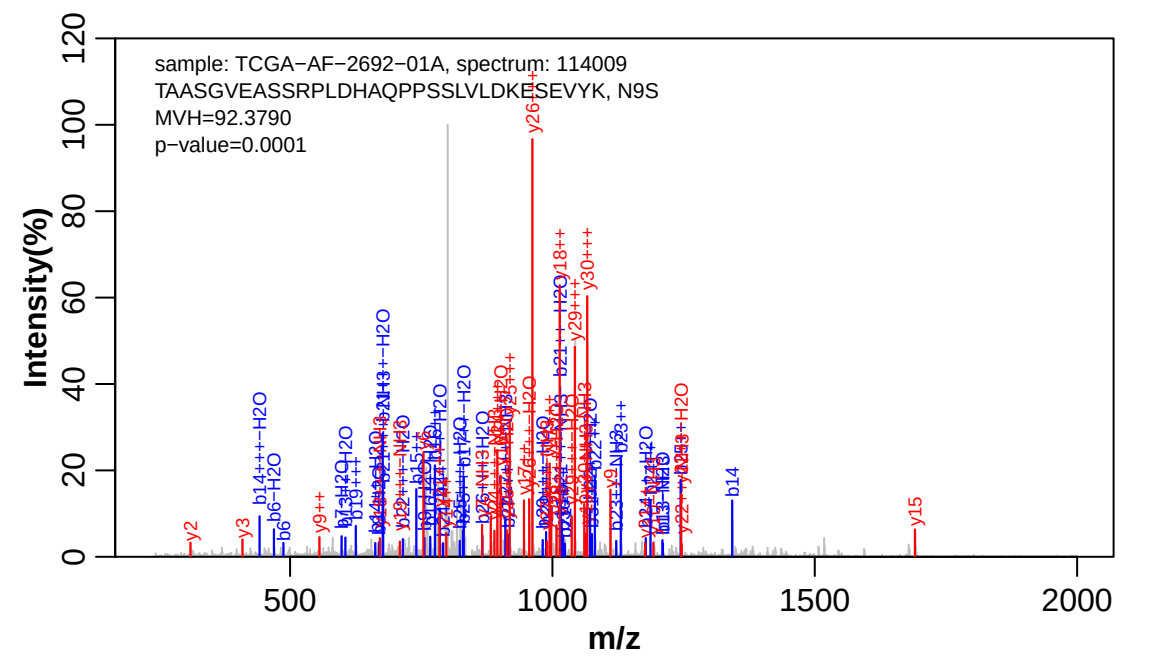

sample: TCGA−AF−2692−01A, spectrum: 115068
SEALPTDLPTPSAPDLTEPK, A10T
MVH=40.1552
p−value=0.0001
Intensity(%)
m/z
y5
y10
y11
y12
y13
y14
y16
b13

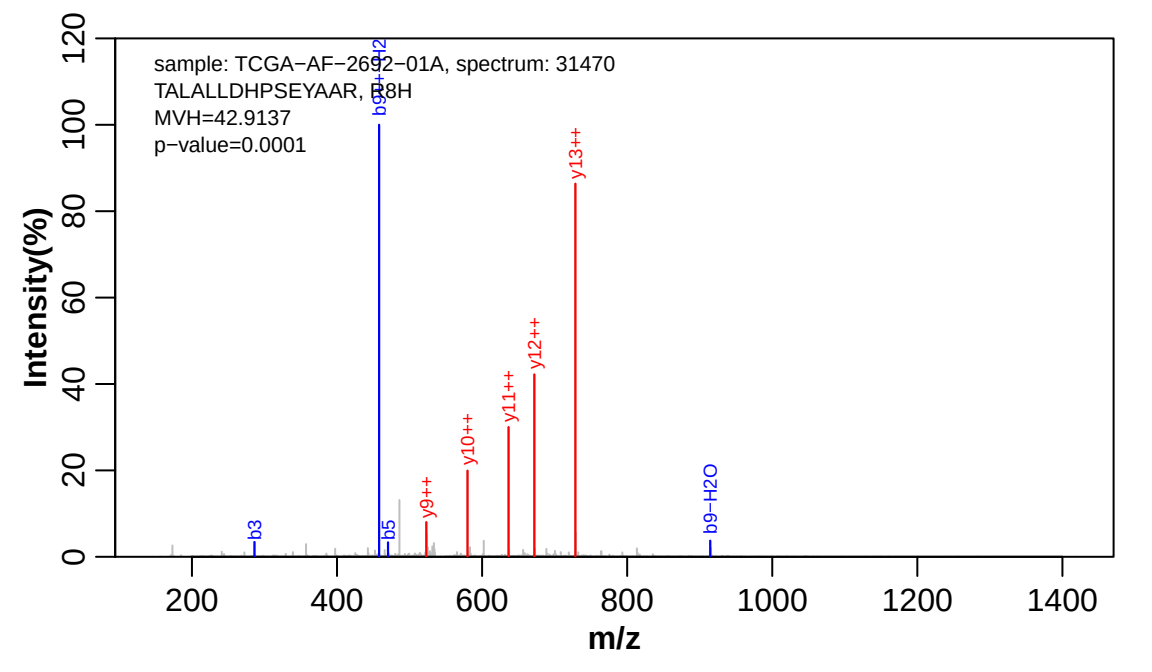

sample: TCGA−AF−2692−01A, spectrum: 73281
SGTPQLSLPFAAR, R7S
MVH=24.9913
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b6
b8
y8
b11

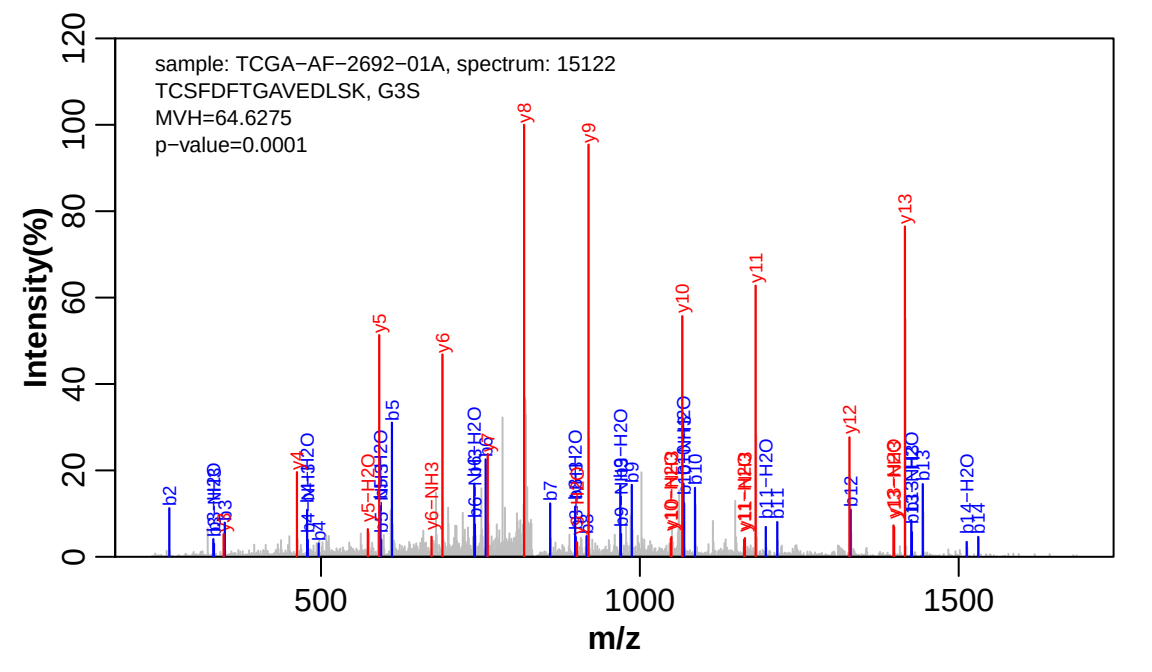

sample: TCGA−AF−2692−01A, spectrum: 50432
SLDLDDWPLELLK, V9I
MVH=47.1423
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y9
y7
b7
y8
b11
y11
b12
b3
y2
y3
b4
y4
b5
b6
b10
y10
b9
b8

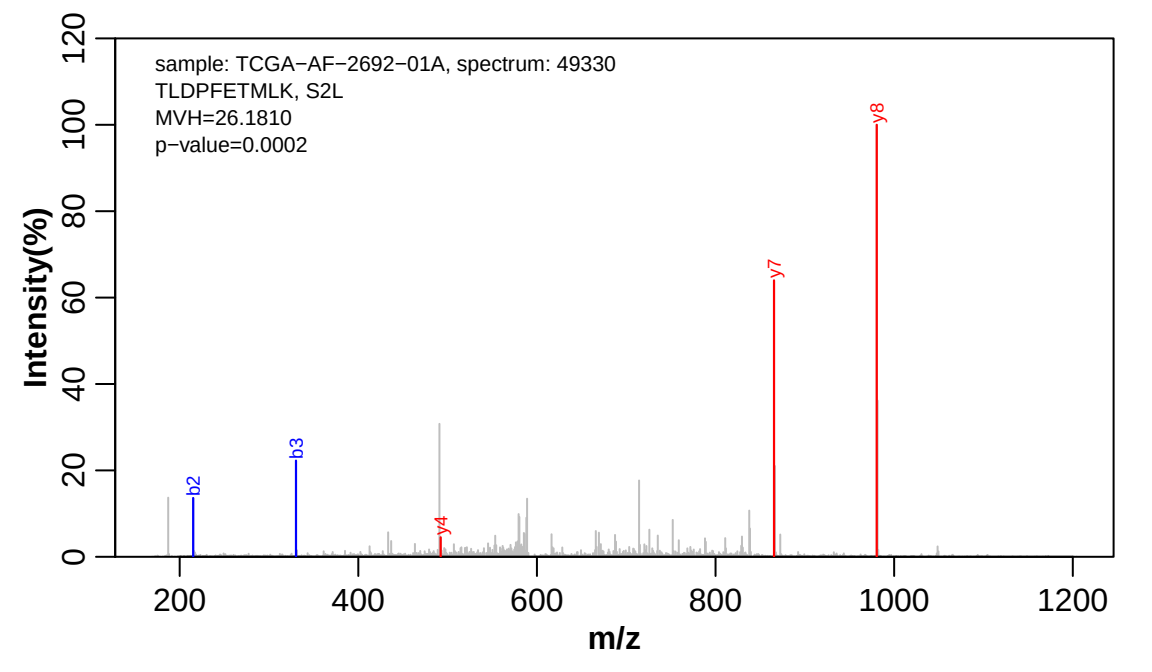

sample: TCGA−AF−2692−01A, spectrum: 86560
SPPGAAAPAAAKPPPLSAK, S8P
MVH=45.5791
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

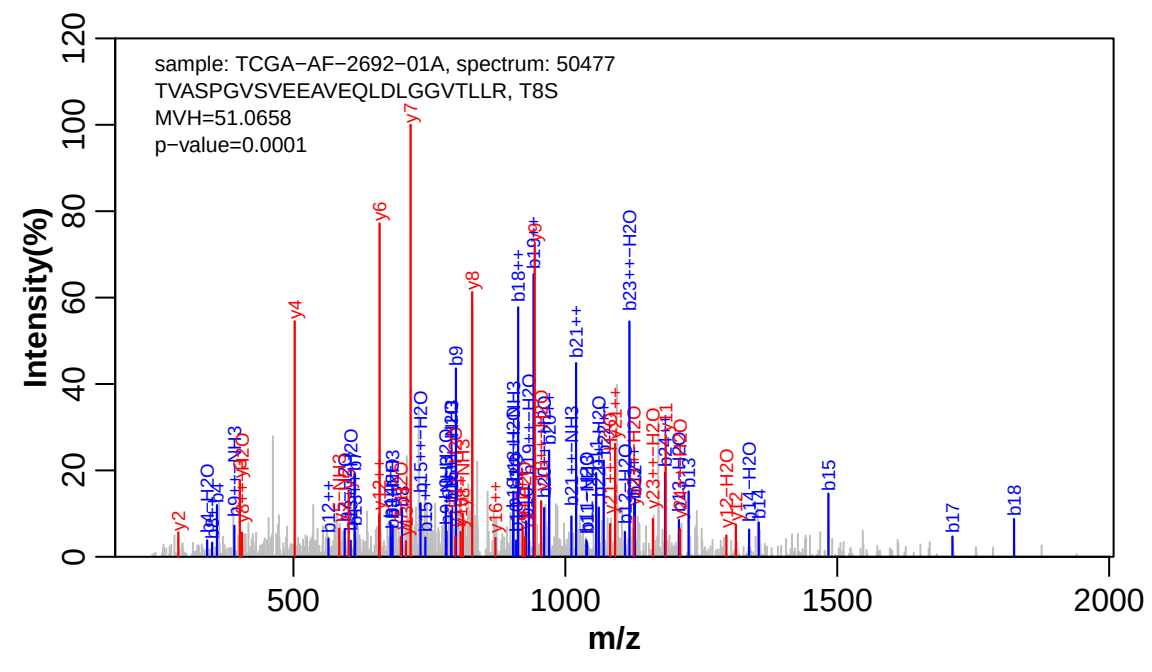

sample: TCGA−AF−2692−01A, spectrum: 18471
SSSYSGEYGSGGGK, G10S
MVH=52.9635
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4
b4−H2O
y6
b5−H2O
b5
b6
y7
y7−NH3
b7−H2O
b7−NH3
b7
y8
b8−H2O
b8
y9
y9−NH3
y9−H2O
b9
b10−H2O
b10
b11
y11
y12
y10

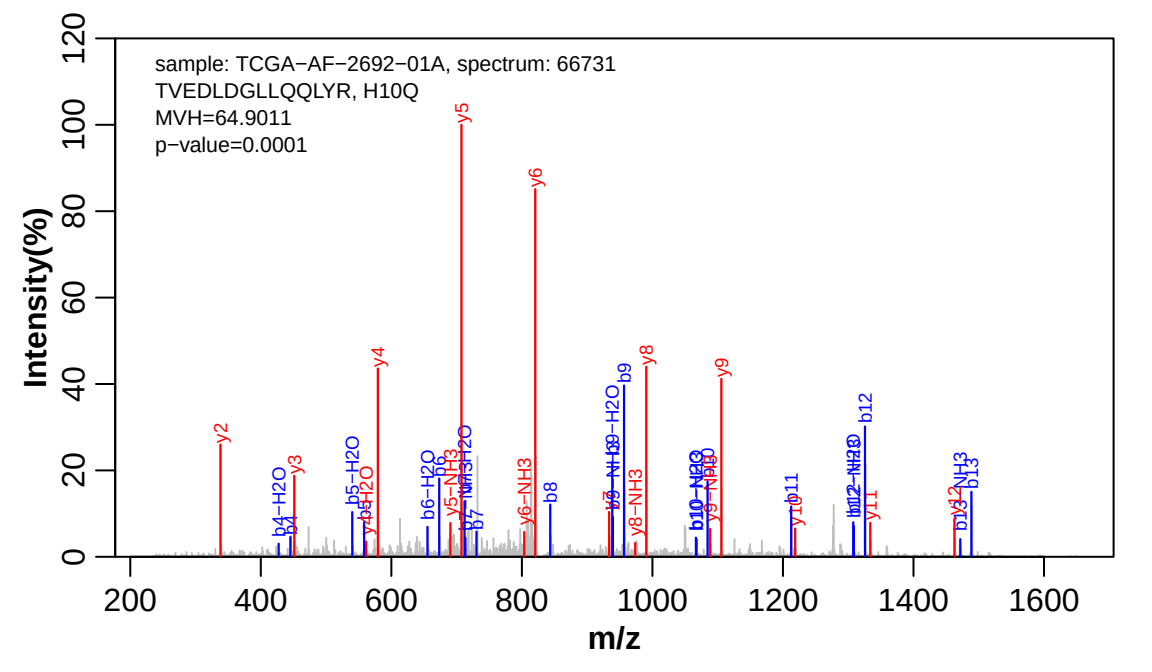

sample: TCGA−AF−2692−01A, spectrum: 114009
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=92.3790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y26++
y2
y3
b14++−H2O
b6−H2O
b6
y9++
y30+++
y15
b14

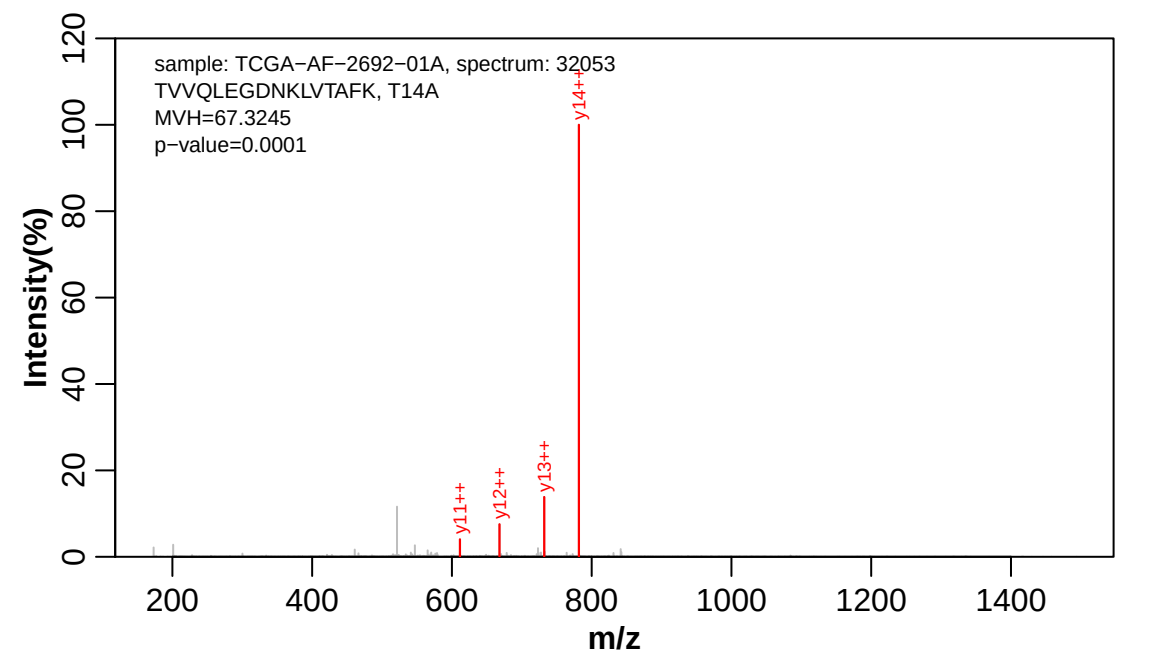

sample: TCGA−AF−2692−01A, spectrum: 31470
TALALLDHPSEYAAR, R8H
MVH=42.9137
p−value=0.0001
b9++H2O
y13++
y12++
y11++
y10++
y9++
b3
b5
b9−H2O
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

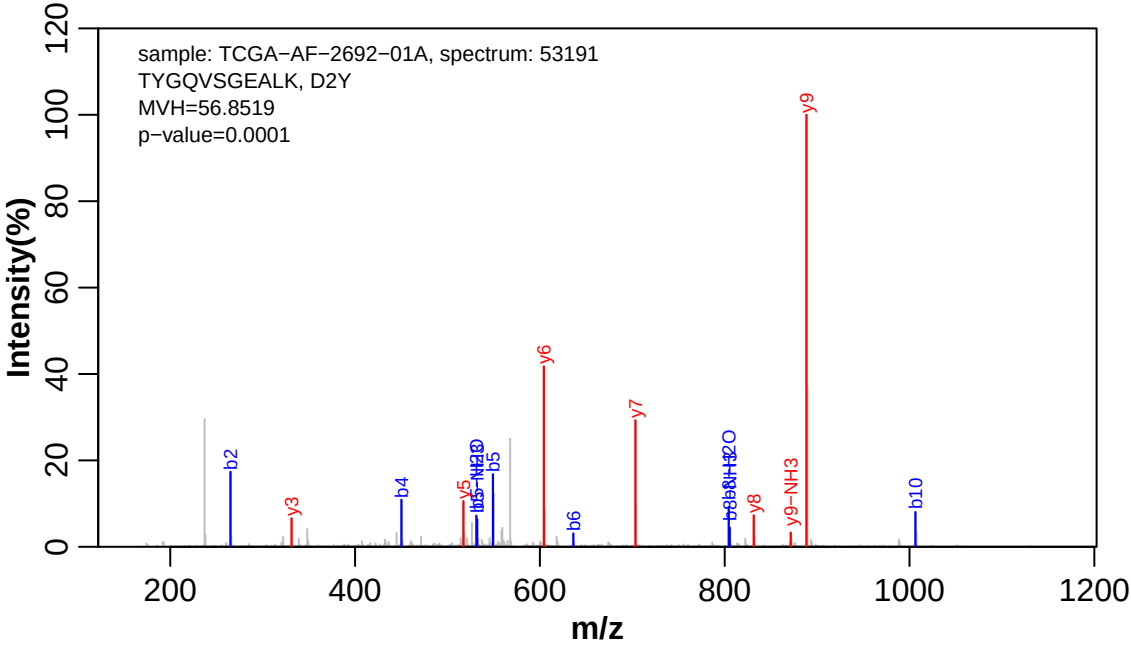

sample: TCGA−AF−2692−01A, spectrum: 15122
TCSFDFTGAVEDLSK, G3S
MVH=64.6275
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y8
y9
y13
y5
y6
y11
y10
y12
b5
b7
b9
b11
b12
b13
b14
y4
y5−H2O
y6−NH3
b14−H2O

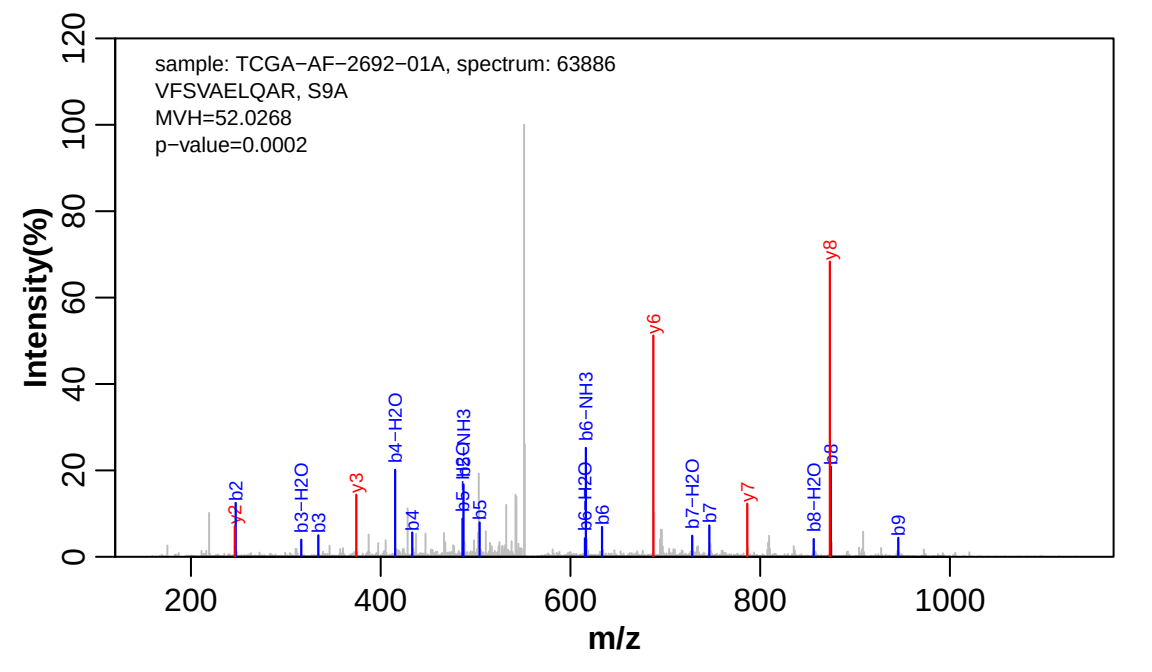

sample: TCGA−AF−2692−01A, spectrum: 49330
TLDPFETMLK, S2L
MVH=26.1810
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y7
y8

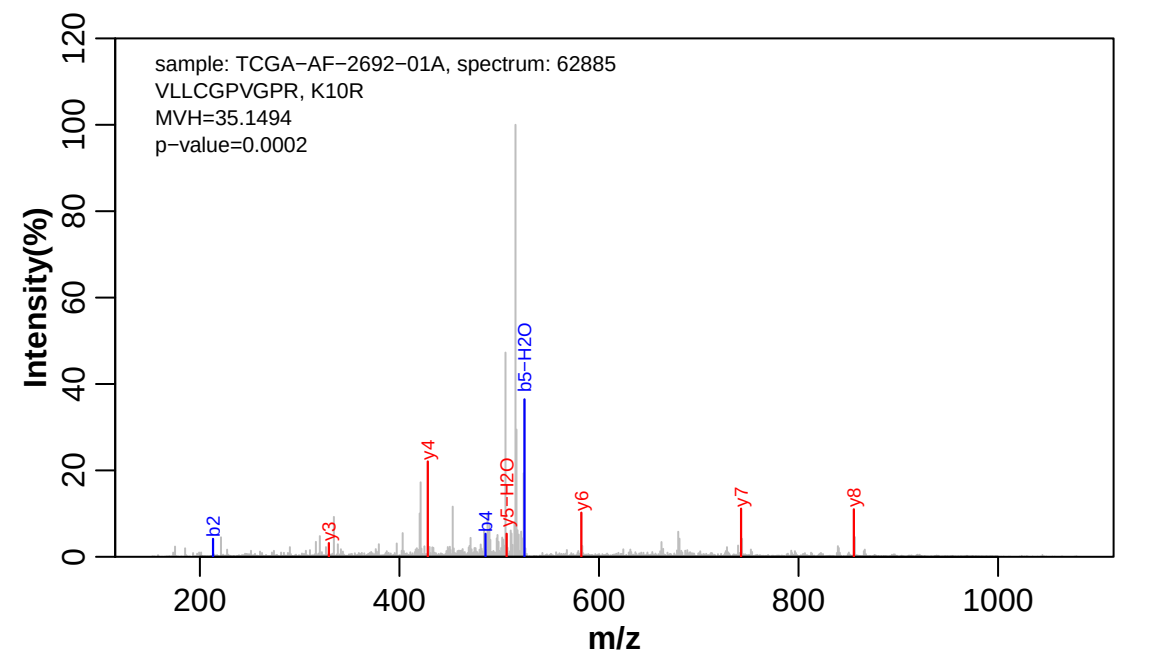

sample: TCGA−AF−2692−01A, spectrum: 50477
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=51.0658
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y4
y8
y2
b9
b15
b17
b18
b15 −H2O
b14 −H2O
y12 −H2O
b23++ −H2O
b21++
b18++
y16++
y15++ −H2O

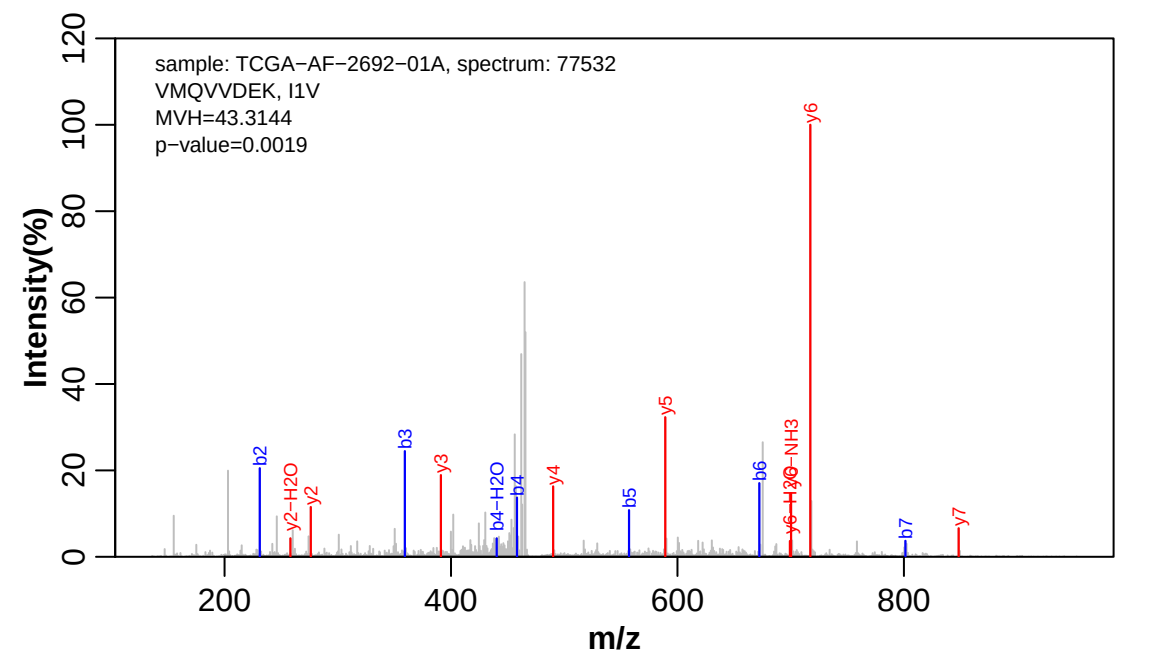

sample: TCGA−AF−2692−01A, spectrum: 66731
TVEDLDGLLQQLYR, H10Q
MVH=64.9011
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
y5
y6
y8
y9
b4−H2O
b4
b5−H2O
b6−H2O
b6
y5−NH3
b7
y6−NH3
b8
b9
y8−NH3
b12
y11
b13

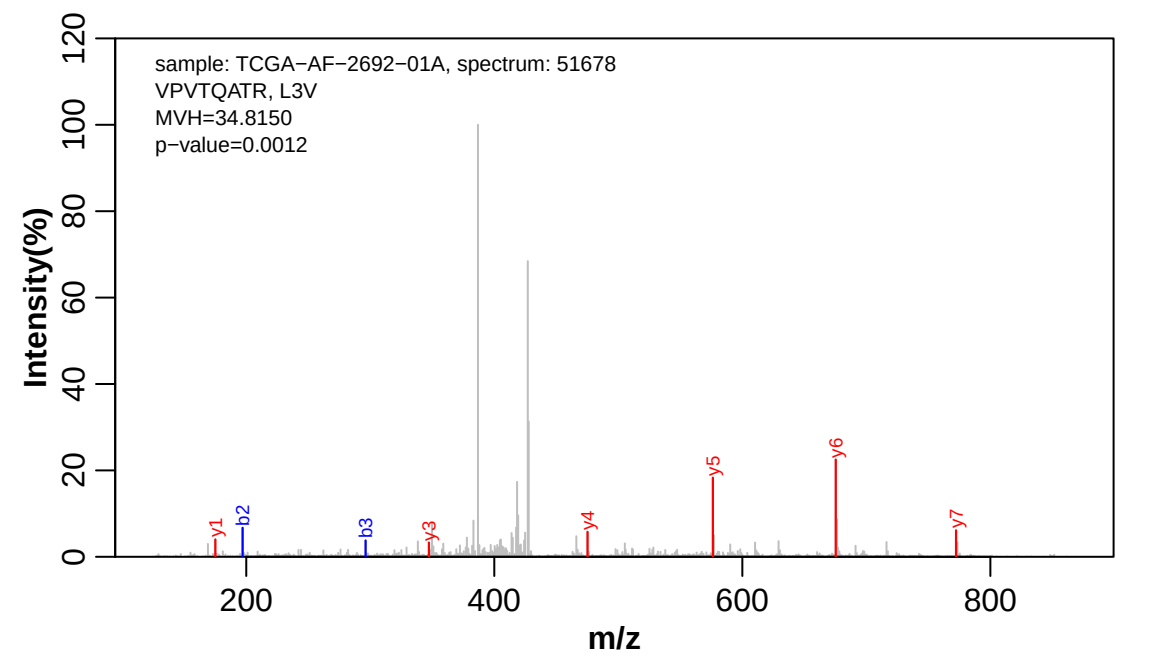

sample: TCGA−AF−2692−01A, spectrum: 32053
TVVQLEGDNKLVTAFK, T14A
MVH=67.3245
p−value=0.0001
y14++
y13++
y12++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

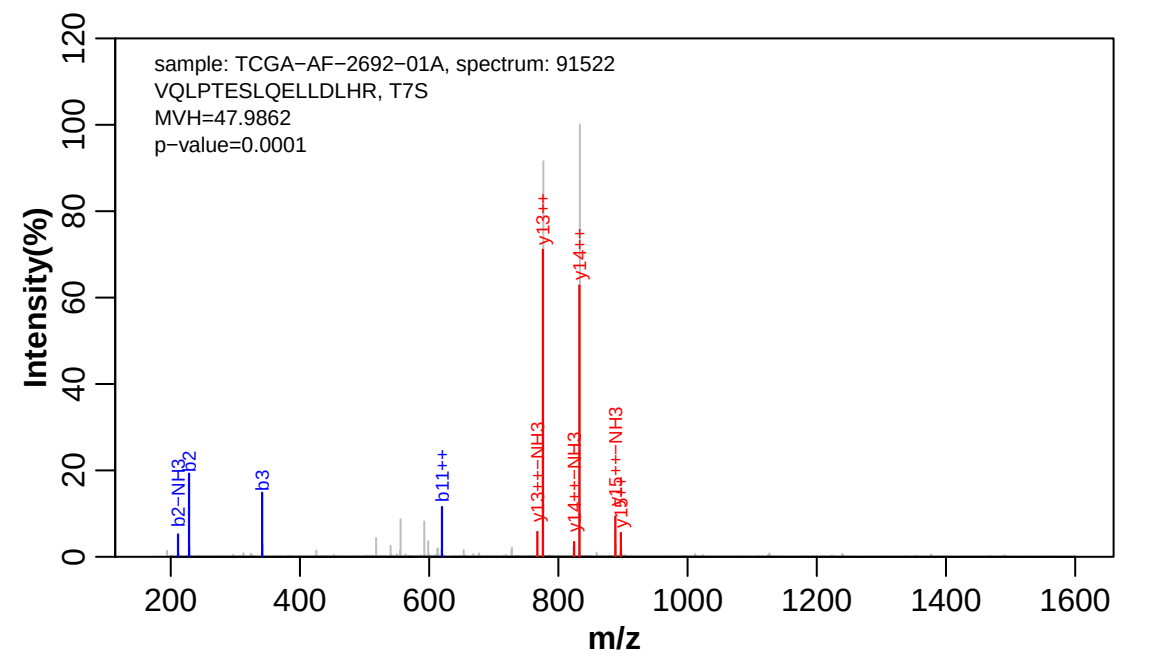

sample: TCGA−AF−2692−01A, spectrum: 53191
TYGQVSGEALK, D2Y
MVH=56.8519
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4
y5
b5
y6
b6
y7
y8
y9
y9−NH3
b10

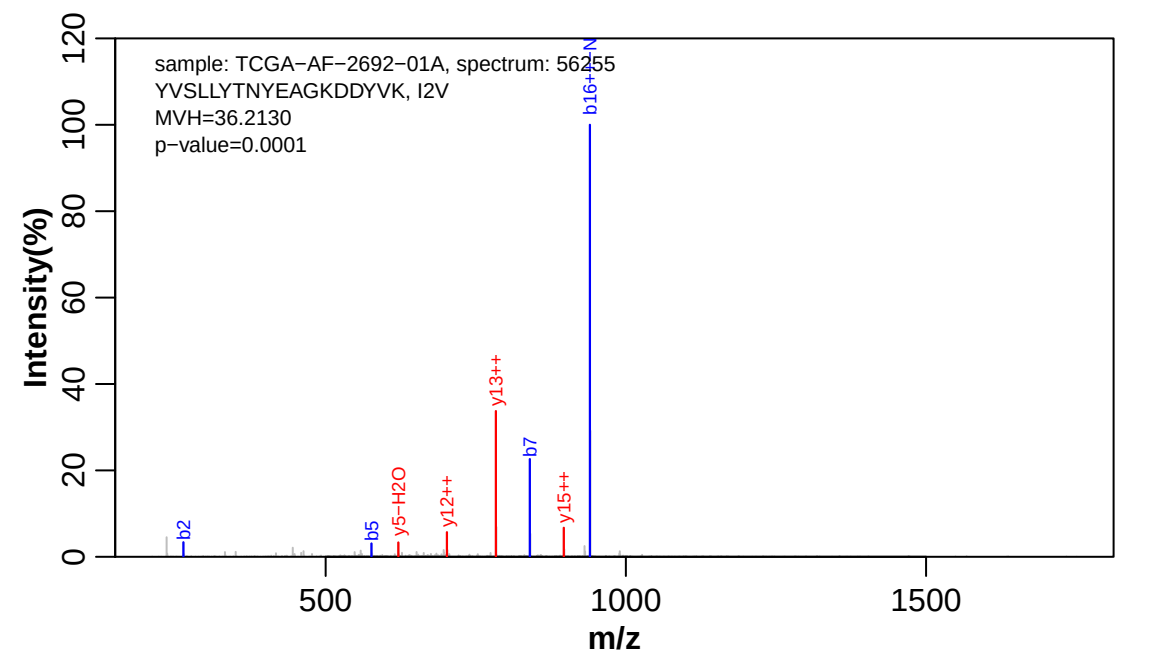

sample: TCGA−AF−2692−01A, spectrum: 63886
VFSVAELQAR, S9A
MVH=52.0268
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b2
b3−H2O
b3
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
b6−NH3
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9

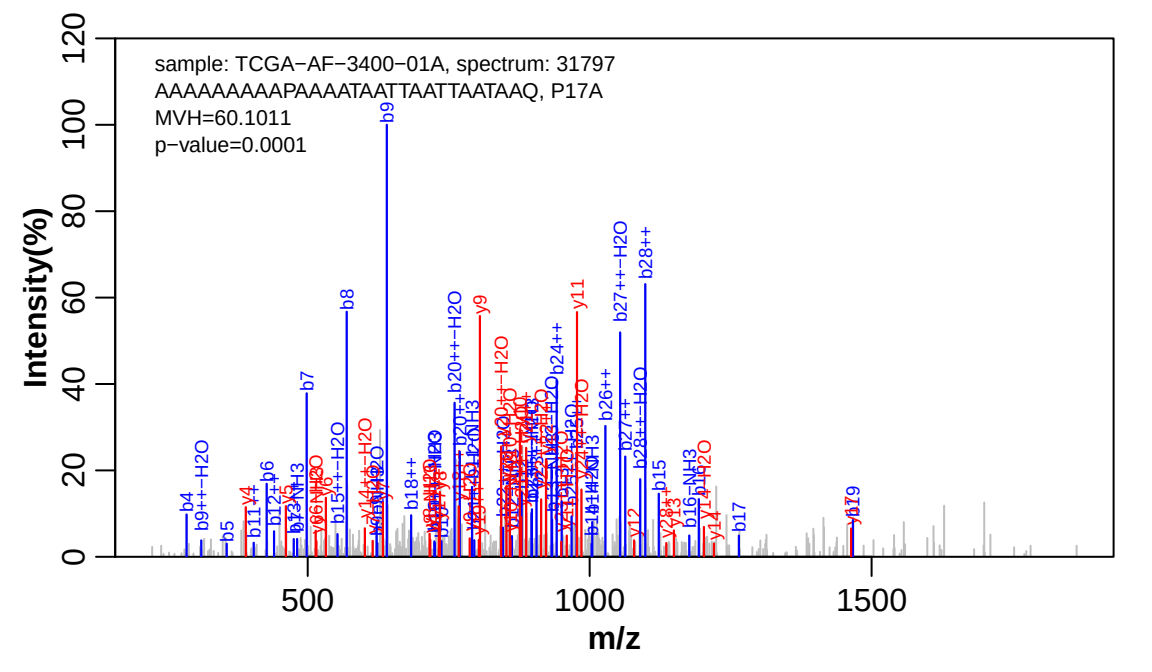

sample: TCGA−AF−2692−01A, spectrum: 62885
VLLCGPVGPR, K10R
MVH=35.1494
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
y4
b4
y5−H2O
b5−H2O
y6
y7
y8

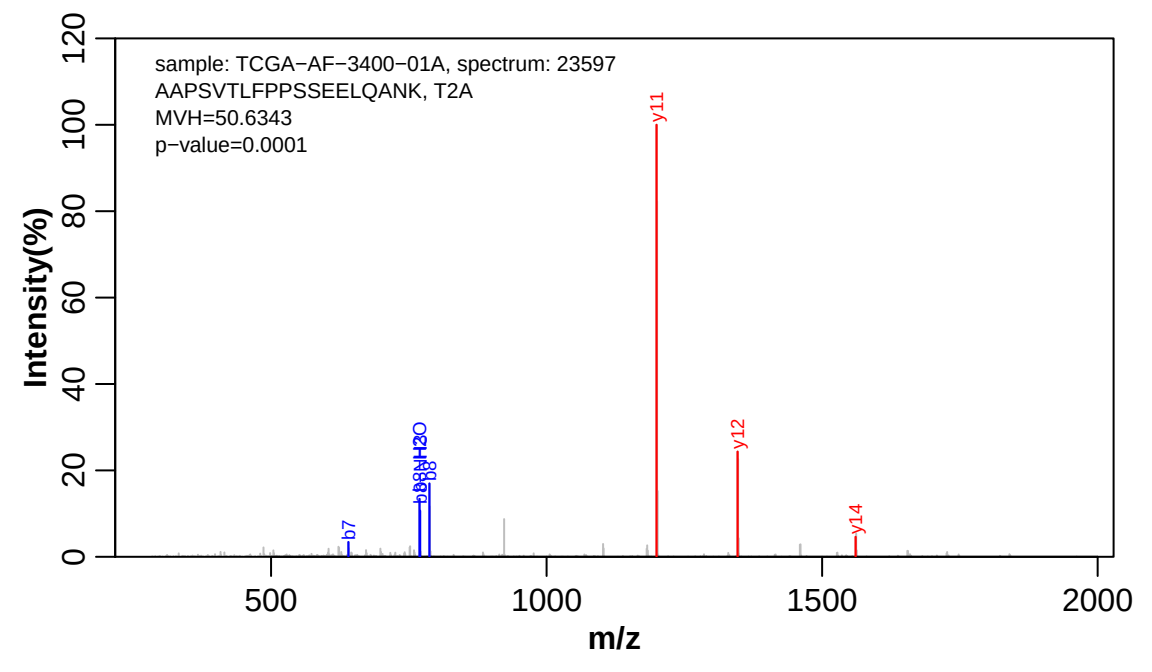

sample: TCGA−AF−2692−01A, spectrum: 77532
VMQVVDEK, I1V
MVH=43.3144
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2−H2O
y2
b3
y3
b4−H2O
b4
y4
b5
y5
b6
y6−NH3
y6−H2O
y6
b7
y7

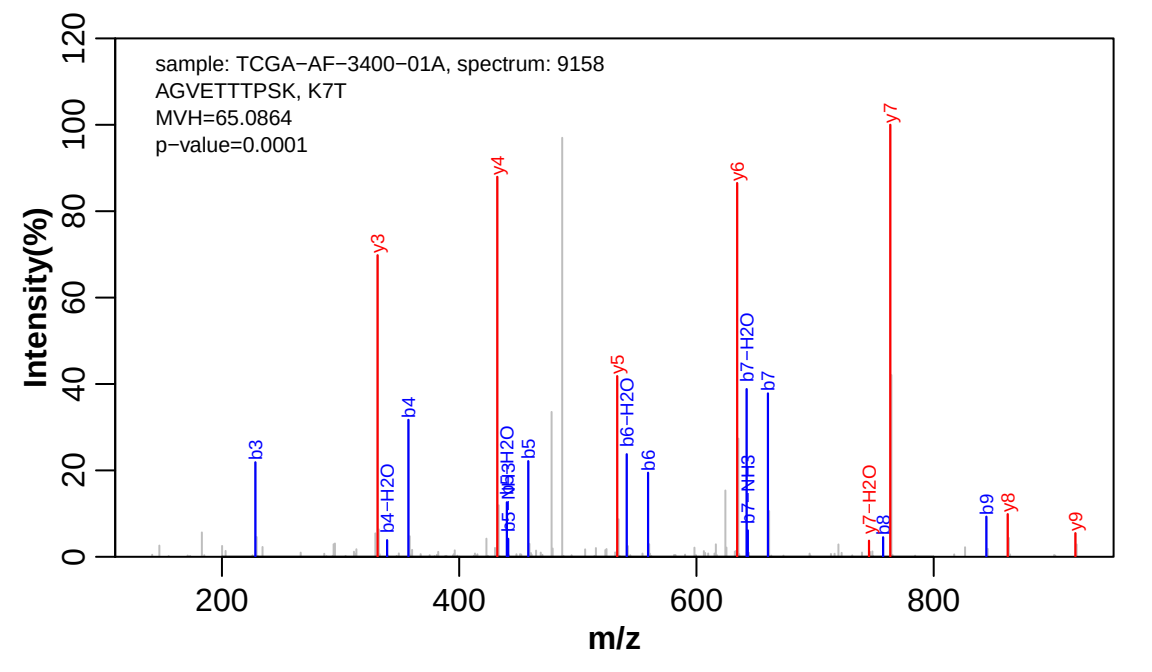

sample: TCGA−AF−2692−01A, spectrum: 51678
VPVTQATR, L3V
MVH=34.8150
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

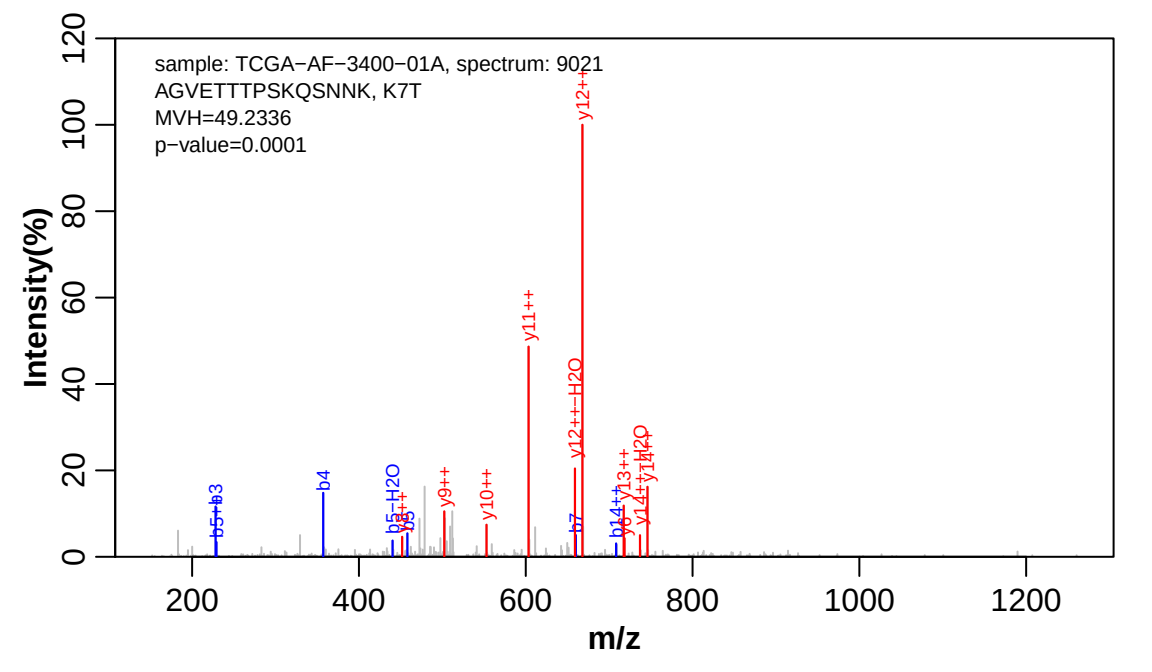

sample: TCGA−AF−2692−01A, spectrum: 91522
VQLPTESLQELLDLHR, T7S
MVH=47.9862
p−value=0.0001
Intensity(%)
m/z
b2−NH3
b2
b3
b11++
y13++−NH3
y13++
y14++−NH3
y14++
y15++−NH3

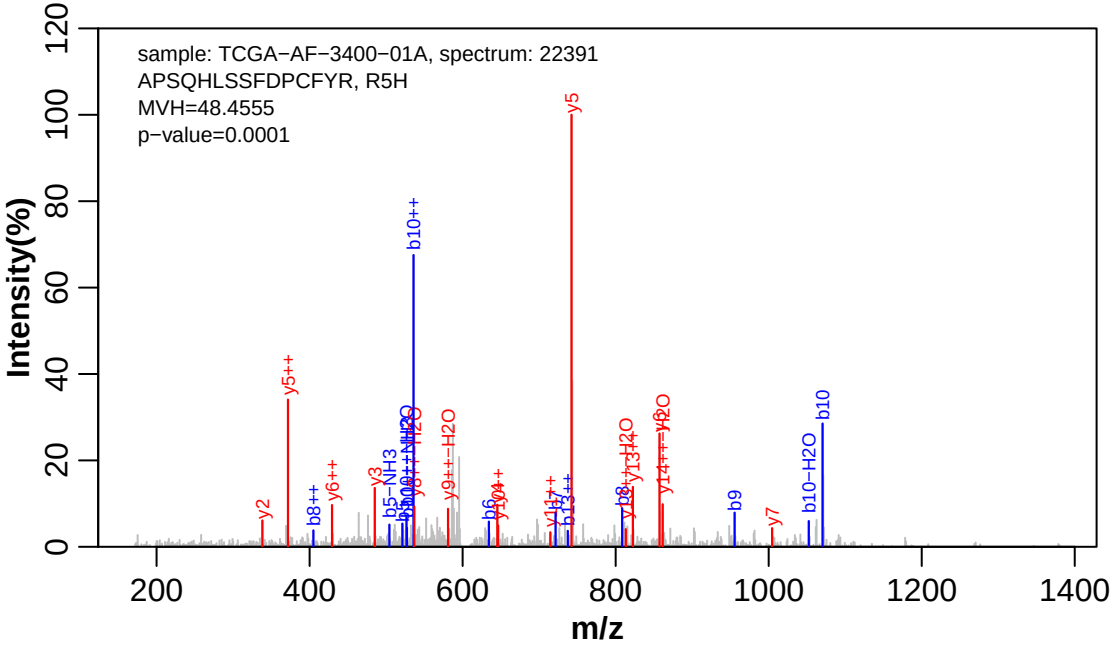

sample: TCGA−AF−2692−01A, spectrum: 56255
YVSLLYTNYEAGKDDYVK, I2V
MVH=36.2130
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
y5−H2O
b5
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

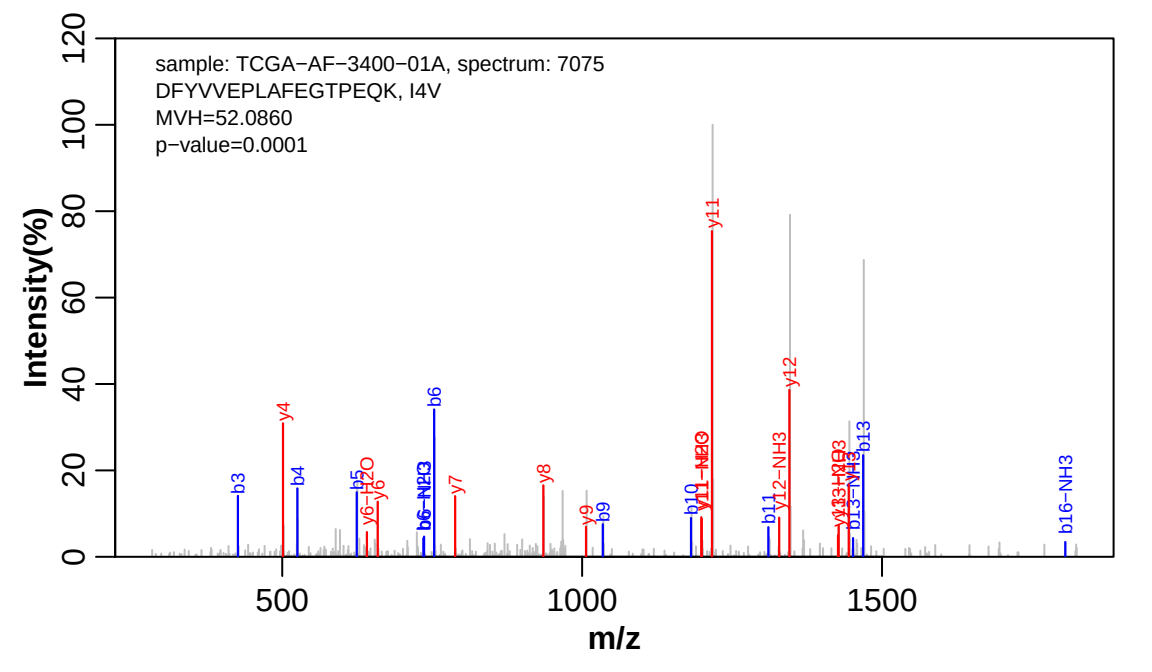

sample: TCGA−AF−3400−01A, spectrum: 31797
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=60.1011
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b8
b7
b4
b5
b6
b9++−H2O
b15++−H2O
b18++
b20++−H2O
b24++
b26++
b27++−H2O
b28++
y9
y11
y12
y14
y17
y19

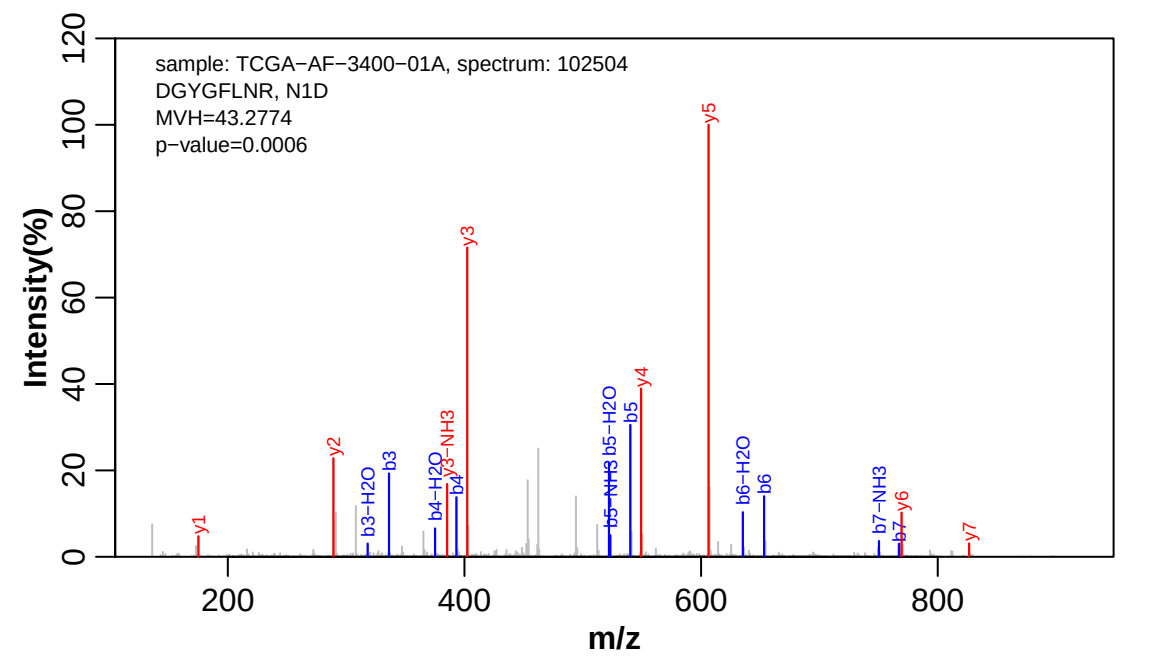

sample: TCGA−AF−3400−01A, spectrum: 23597
AAPSVTLFPPSSEELQANK, T2A
MVH=50.6343
p−value=0.0001
Intensity(%)
m/z
y11
y12
y14
b7
0
20
40
60
80
100
120
500
1000
1500
2000

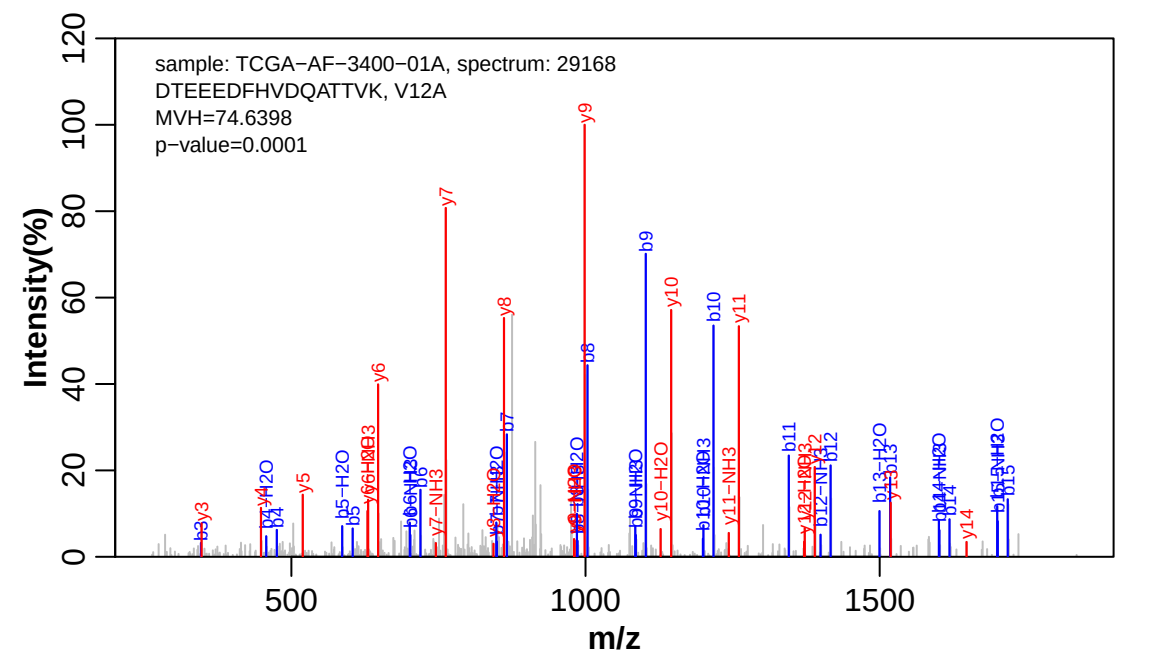

sample: TCGA−AF−3400−01A, spectrum: 9158
AGVETTTPSK, K7T
MVH=65.0864
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7−NH3
b7
y7
y7−H2O
b8
b9
y8
y9

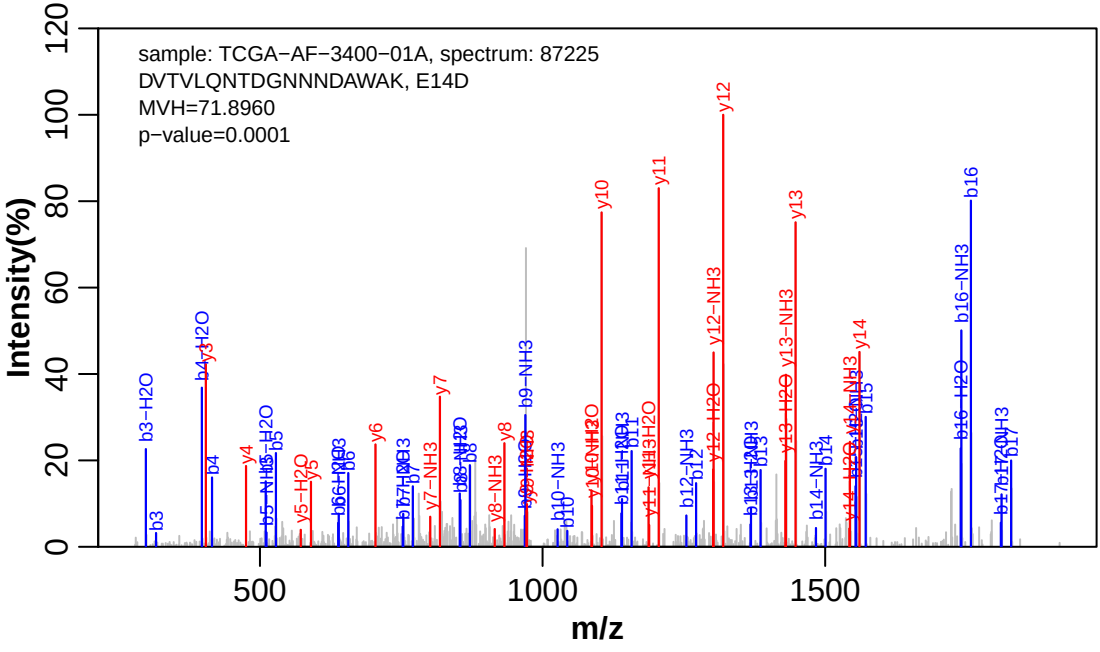

sample: TCGA−AF−3400−01A, spectrum: 9021
AGVETTTPSKQSNNK, K7T
MVH=49.2336
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b5+b3
b4
b5−H2O
y8++
y5++
y9++
y10++
y11++
y12++
y12++−H2O
b7
b14++
y6++
y13++
y14++
y14++−H2O

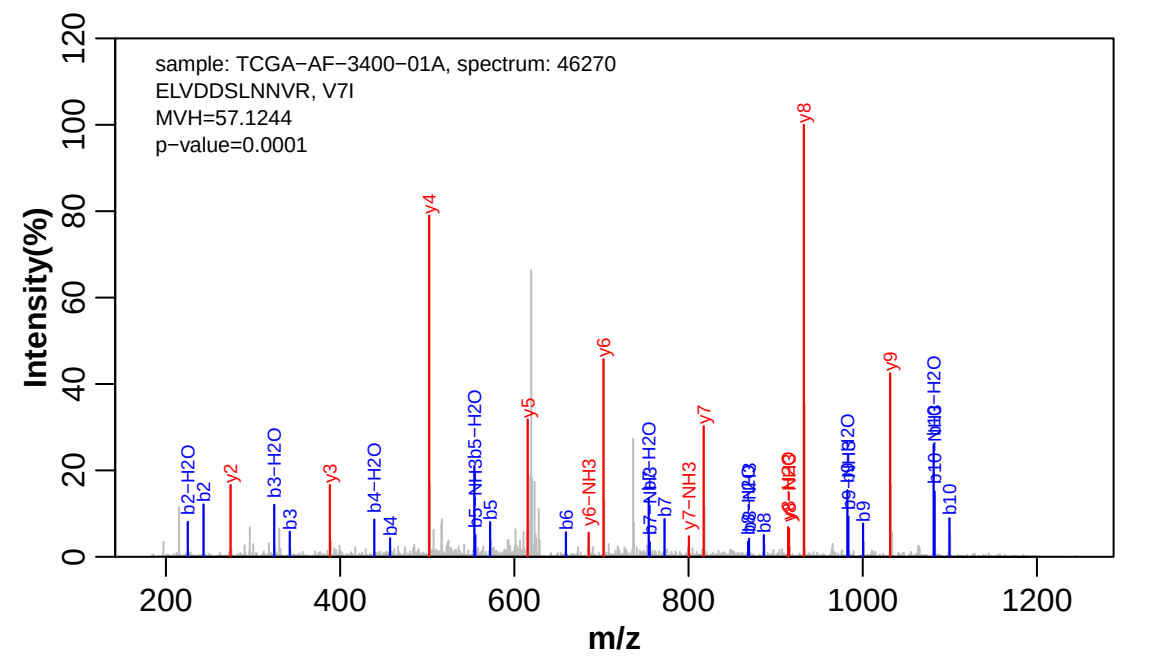

sample: TCGA−AF−3400−01A, spectrum: 22391
APSQHLSSFDPCFYR, R5H
MVH=48.4555
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y5++
b10++
y2
b8++
y6++
y3
b5−NH3
y9++−H2O
b6
y10++
y11++
b13++
y8
y13++
y14++−H2O
b9
y7
b10−H2O
b10

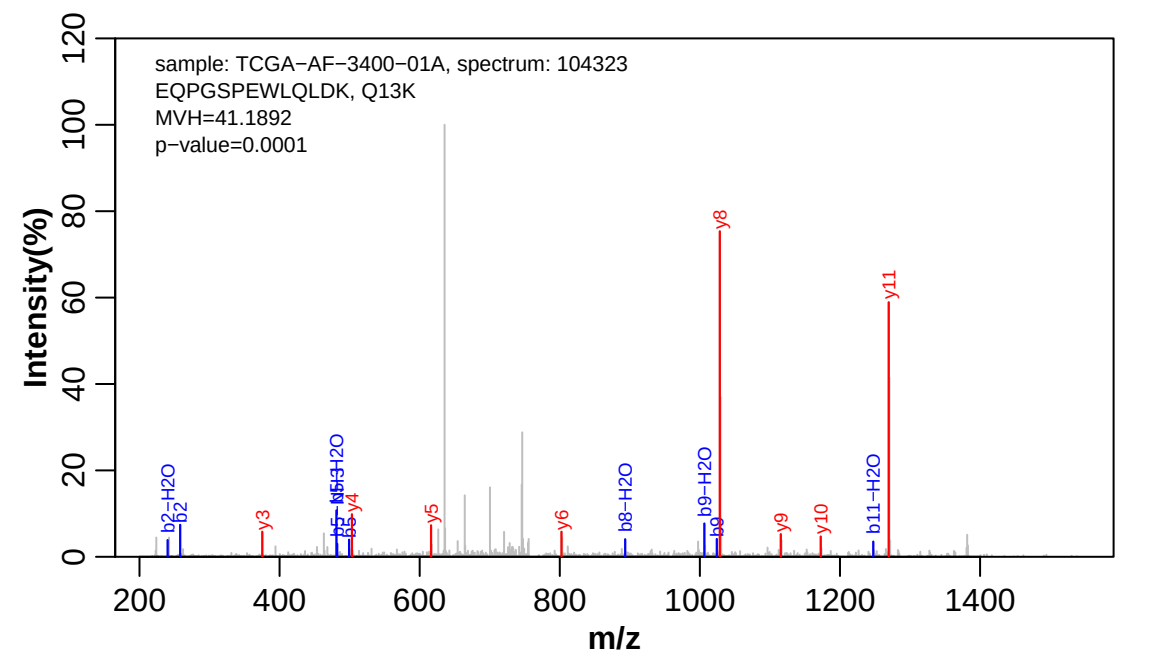

sample: TCGA−AF−3400−01A, spectrum: 7075
DFYVVEPLAFEGTPEQK, I4V
MVH=52.0860
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6−H2O
y6
b6
y7
y8
y9
b9
y11
y12
b11
y12−NH3
b13
b16−NH3

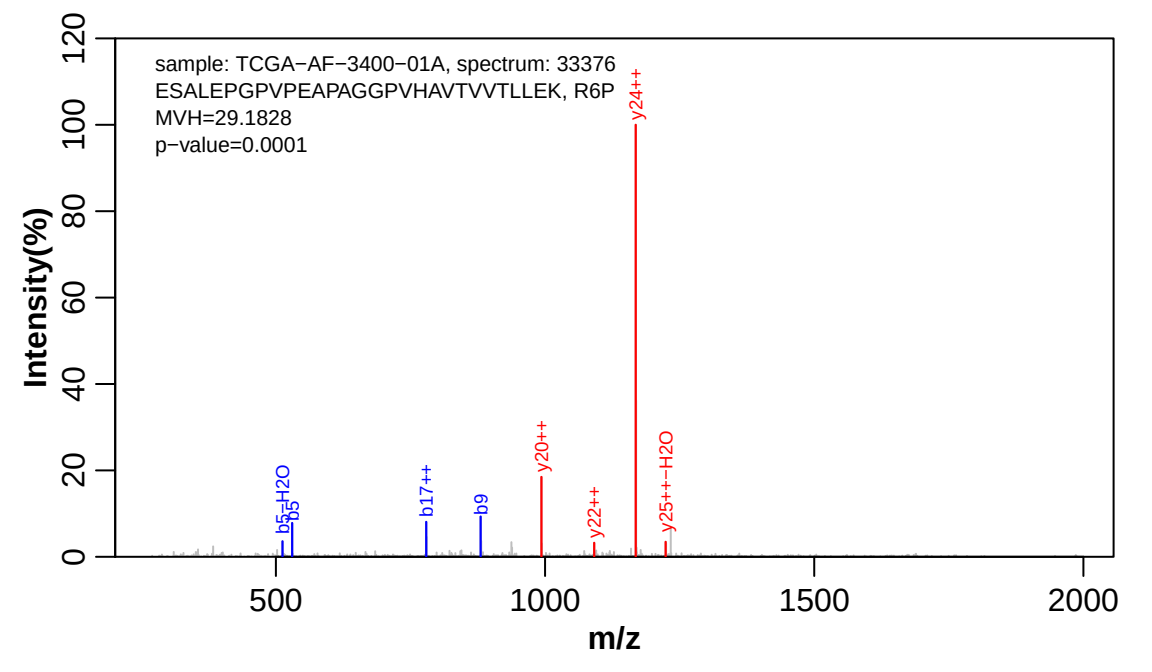

sample: TCGA−AF−3400−01A, spectrum: 102504
DGYGFLNR, N1D
MVH=43.2774
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−NH3
b7
y6
y7

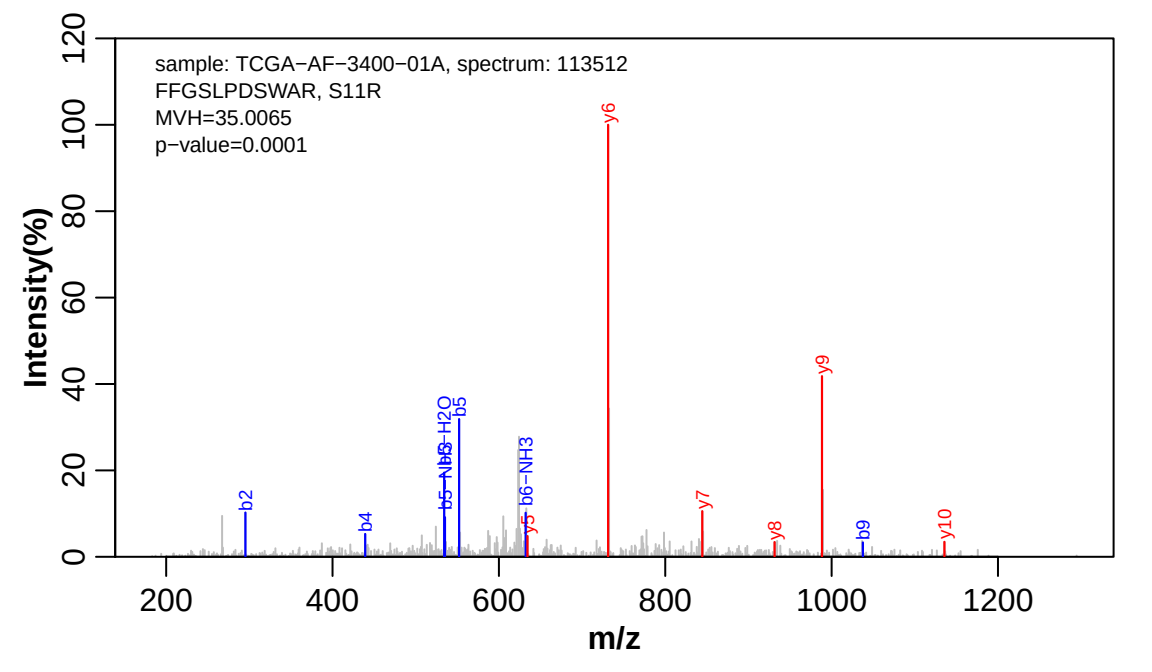

sample: TCGA−AF−3400−01A, spectrum: 29168
DTEEEDFHVDQATTVK, V12A
MVH=74.6398
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y7
y8
b9
y10
b10
y11
b8
y6
b7
b11
b12
b13−H2O
y13
y14
b15
y5
b5−H2O
y10−H2O
y11−NH3
y7−NH3
b3
y3
y4
b4
b5
b6
b12−NH3

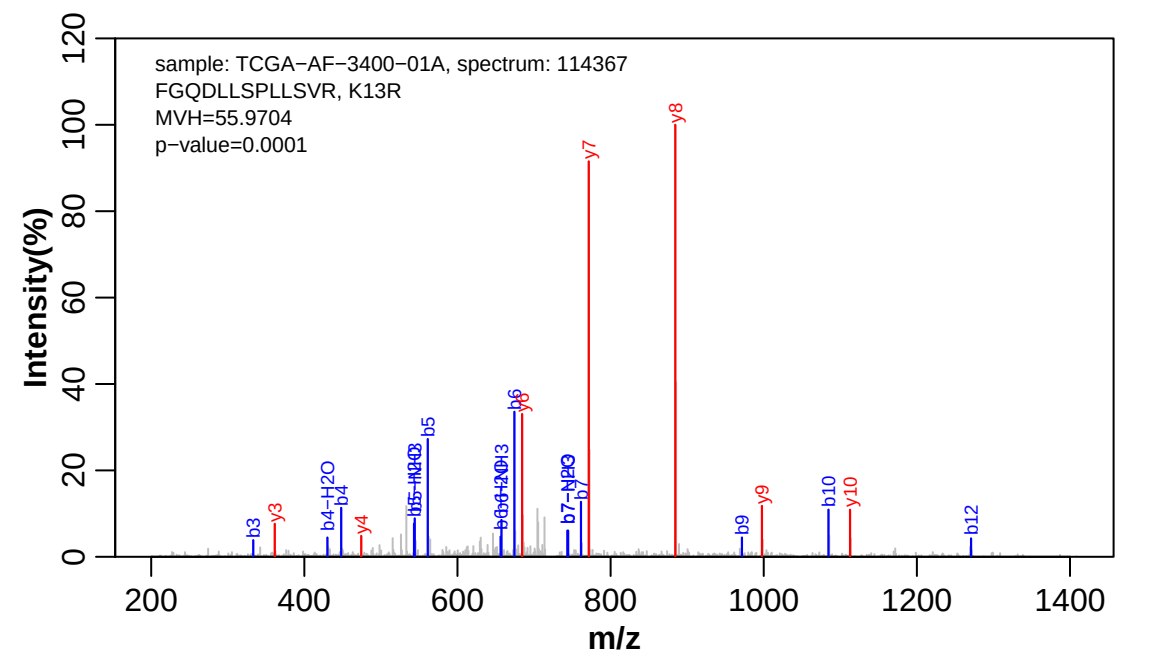

sample: TCGA−AF−3400−01A, spectrum: 87225
DVTVLQNTDGNNNDAWAK, E14D
MVH=71.8960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−NH3
y7
b8−NH3
b8
y8−NH3
y8
b9−NH3
b10−NH3
y10
y10−NH3
y10−H2O
b11−H2O
b11
y11−NH3
y11−H2O
y11
b12−NH3
b12
y12−H2O
y12−NH3
y12
b13−H2O
b13
y13−H2O
y13−NH3
y13
b14−NH3
b14
y14−H2O
y14−NH3
y14
b15
b16−H2O
b16−NH3
b16
b17−H2O
b17−NH3
b17

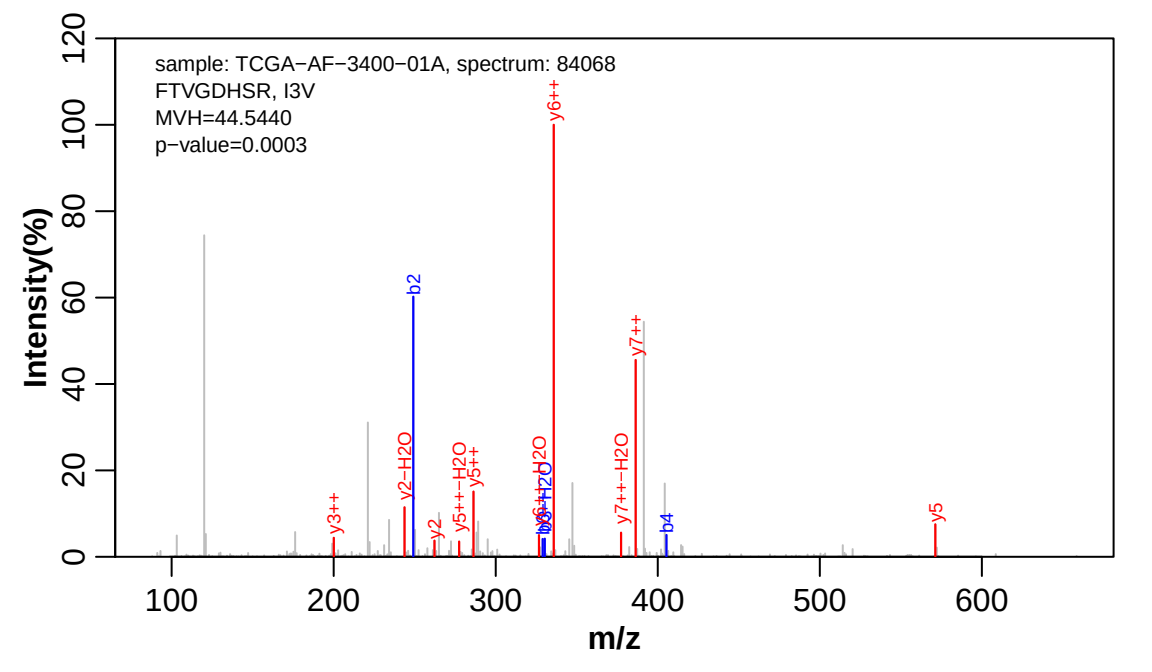

sample: TCGA−AF−3400−01A, spectrum: 46270
ELVDDSLNNVR, V7I
MVH=57.1244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y4
y8
y6
y5
y7
y9
y2
y3
b2−H2O
b2
b3−H2O
b3
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6
y6−NH3
b7−H2O
b7
y7−NH3
b8
b9
b10
b10−H2O

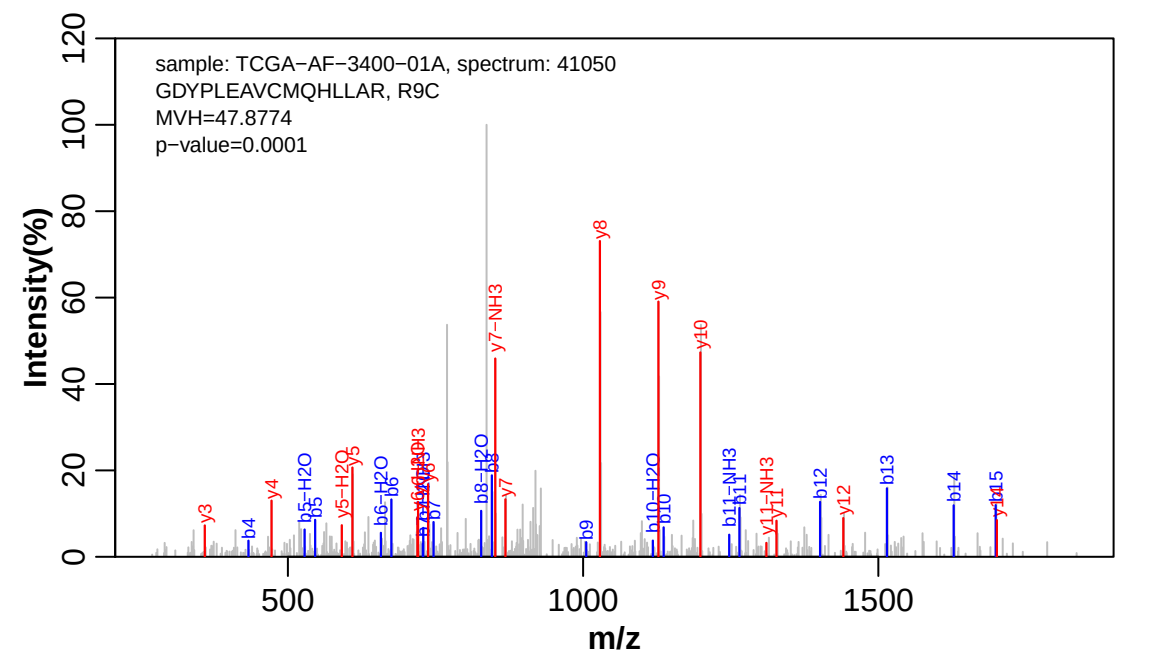

sample: TCGA−AF−3400−01A, spectrum: 104323
EQPGSPEWLQLDK, Q13K
MVH=41.1892
p−value=0.0001
Intensity(%)
m/z
b2−H2O
b2
y3
b5−H2O
b5
b5−y4
y5
y6
b8−H2O
b9−H2O
b9
y8
y9
y10
y11
b11−H2O

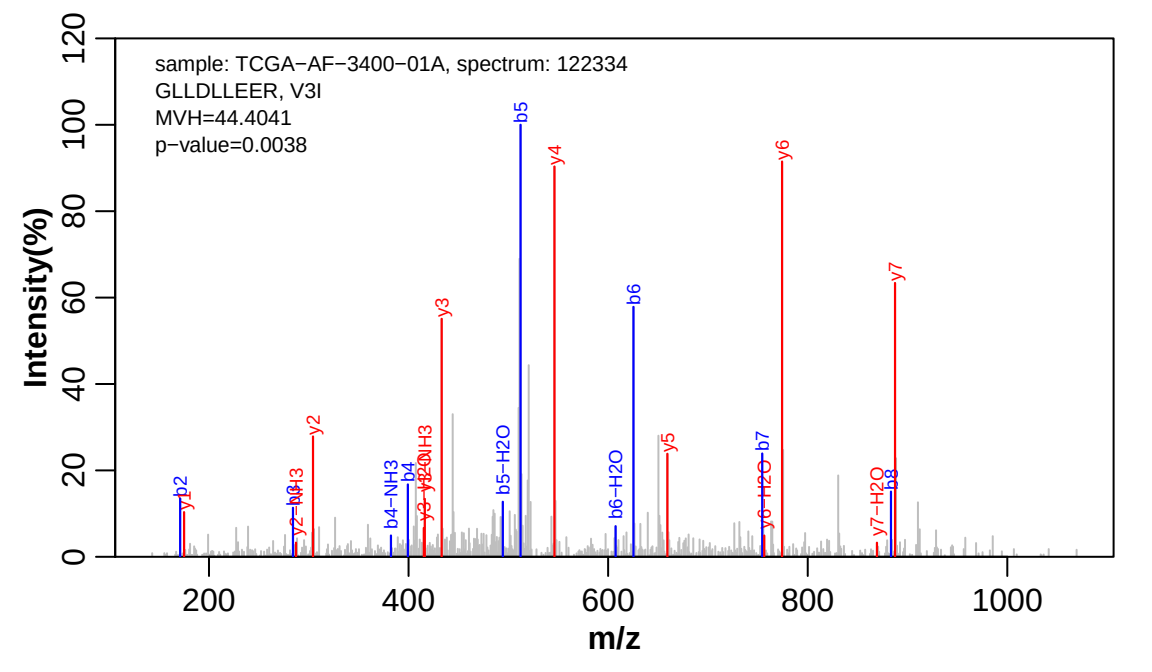

sample: TCGA−AF−3400−01A, spectrum: 33376
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=29.1828
p−value=0.0001
y24++
y20++
y22++
y25++−H2O
b17++
b9
b5−H2O
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

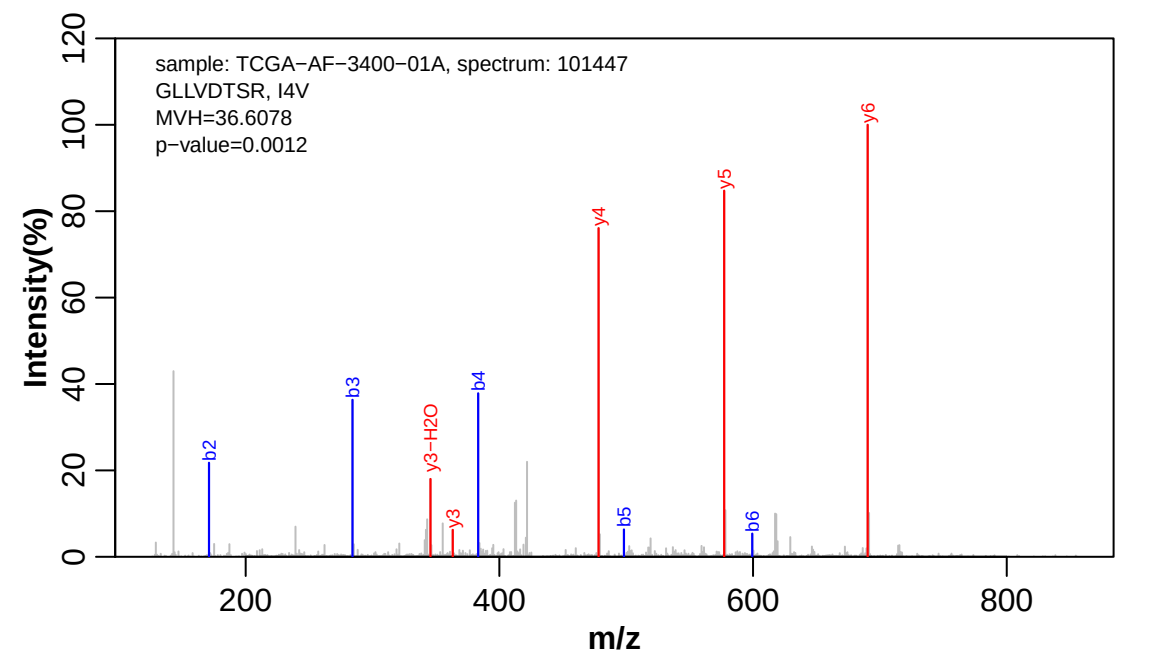

sample: TCGA−AF−3400−01A, spectrum: 113512
FFGSLPDSWAR, S11R
MVH=35.0065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9
b9
y10

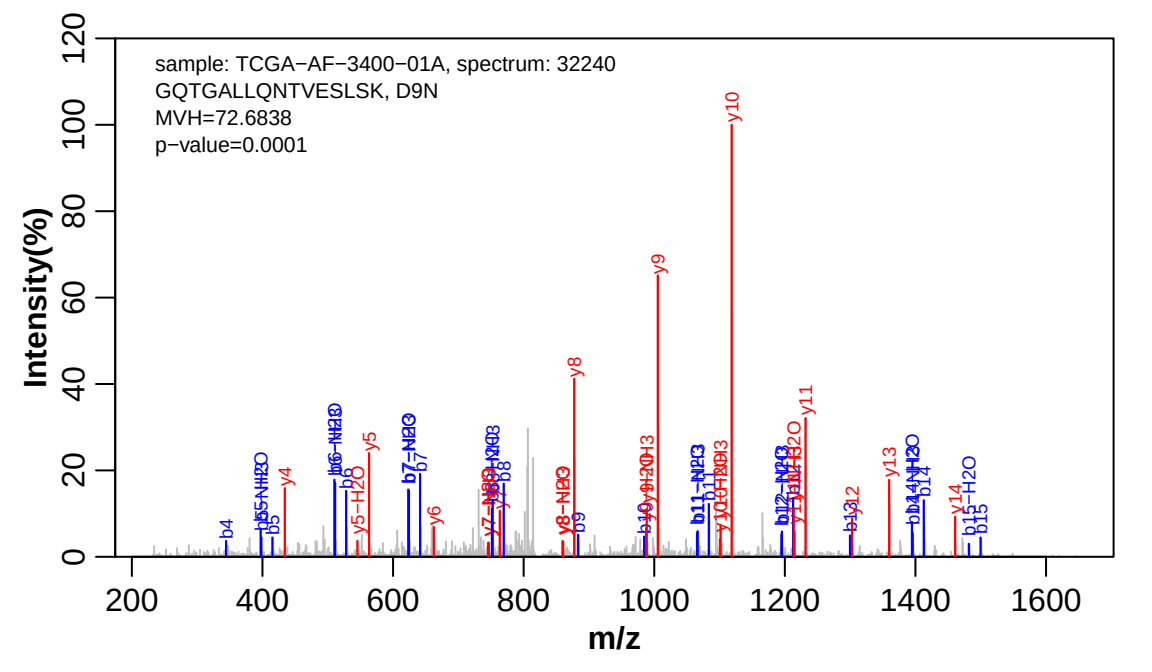

sample: TCGA−AF−3400−01A, spectrum: 114367
FGQDLLSPLLSVR, K13R
MVH=55.9704
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y8
b6
y7
b7−NH3
b7
y9
b9
b10
y10
b12

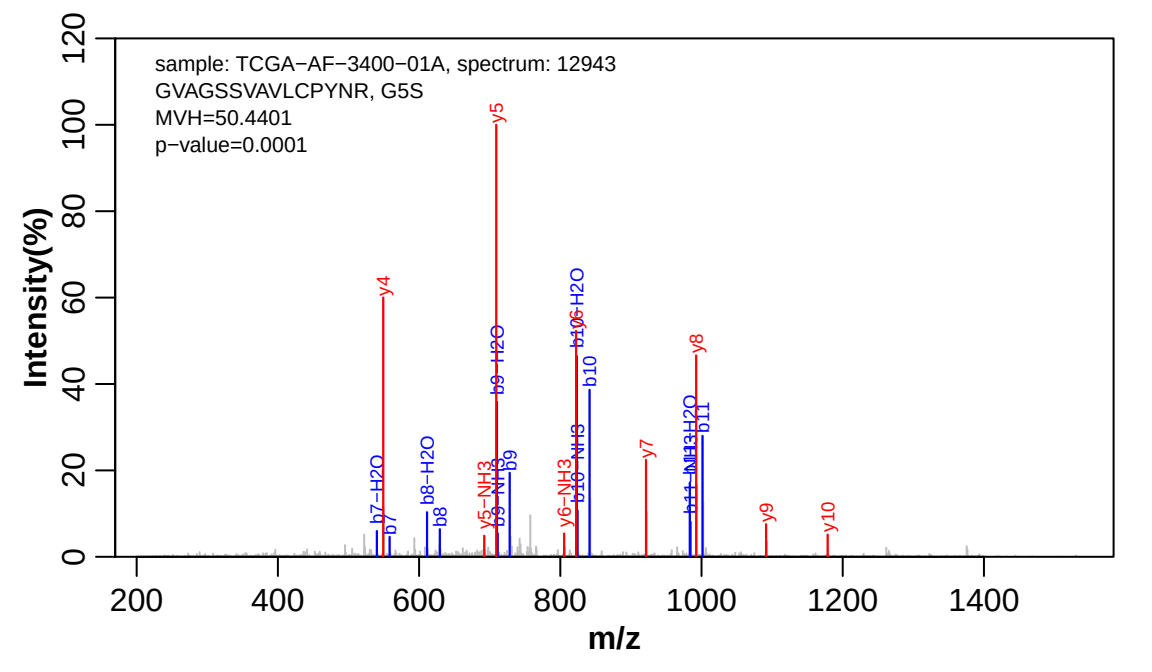

sample: TCGA−AF−3400−01A, spectrum: 84068
FTVGDHSR, I3V
MVH=44.5440
p−value=0.0003
Intensity(%)
m/z
y6++
b2
y7++
y2−H2O
y2
y5++−H2O
y5++
y6++−H2O
b3−H2O
y7++−H2O
b4
y3++
y5

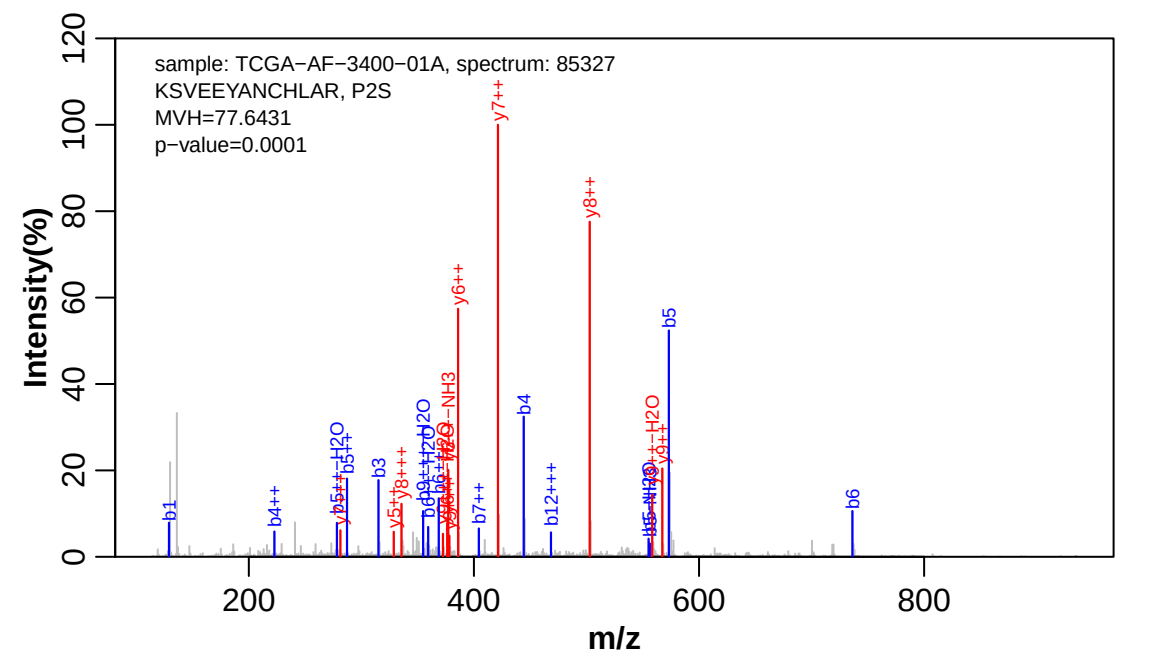

sample: TCGA−AF−3400−01A, spectrum: 41050
GDYPLEAVCMQHLLAR, R9C
MVH=47.8774
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
b7
b8−H2O
b8
y7
y7−NH3
b9
y8
b10−H2O
b10
y9
b11−NH3
b11
y10
y11−NH3
y11
b12
y12
b13
b14
y14
y15

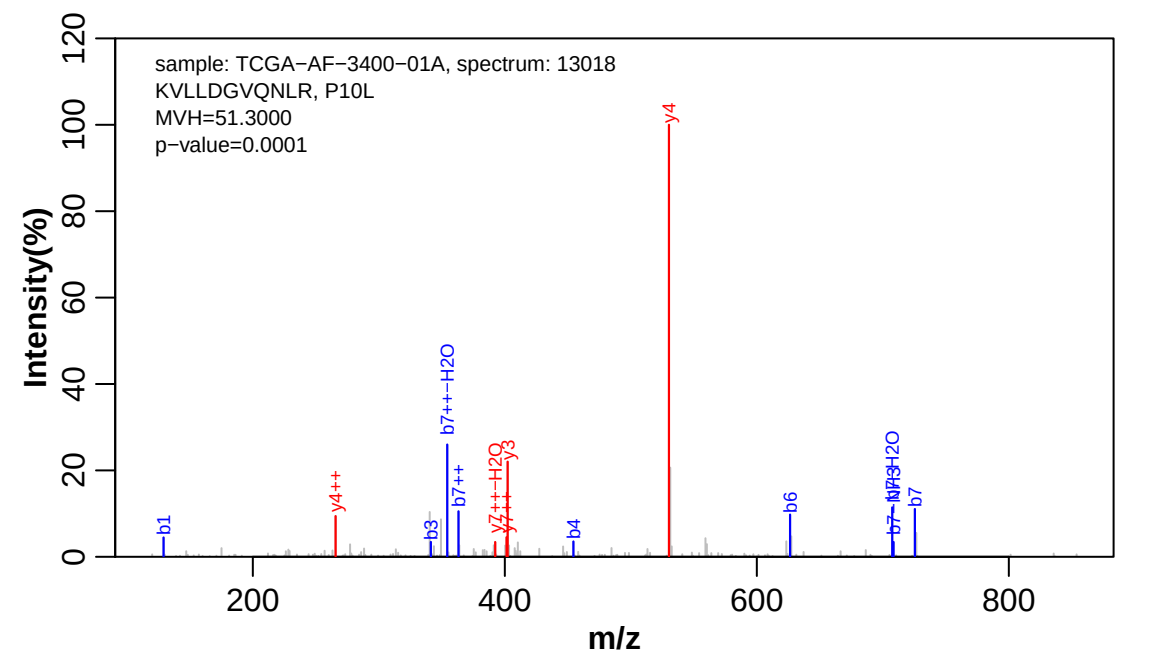

sample: TCGA−AF−3400−01A, spectrum: 122334
GLLDLLEER, V3I
MVH=44.4041
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2
y2−NH3
b4−NH3
b4
y3−H2O
y3−NH3
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−H2O
b7
y6
y7−H2O
b8
y7

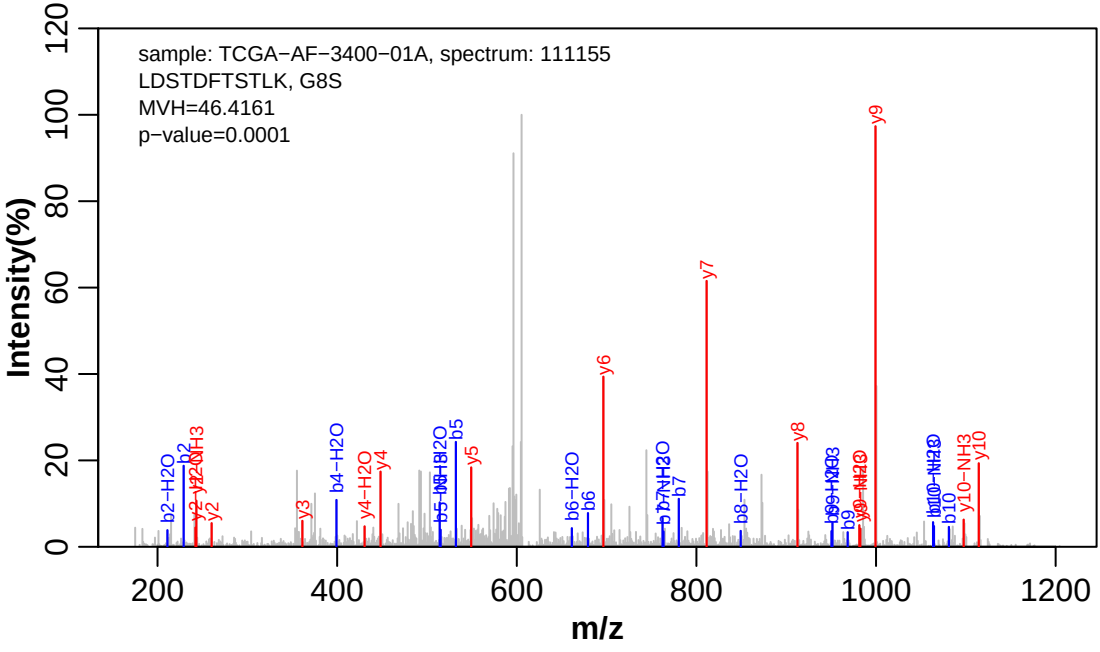

sample: TCGA−AF−3400−01A, spectrum: 101447
GLLVDTSR, I4V
MVH=36.6078
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3−H2O
y3
b4
y4
b5
y5
b6
y6

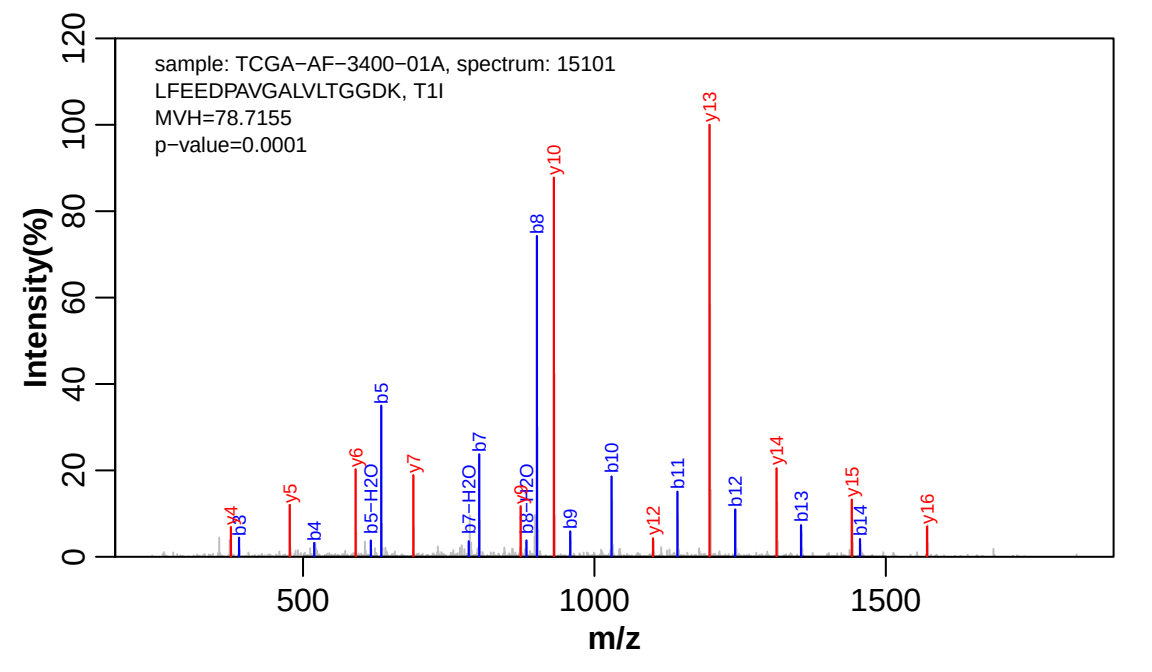

sample: TCGA−AF−3400−01A, spectrum: 32240
GQTGALLQNTVESLSK, D9N
MVH=72.6838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y5
y6
y4
y13
y14
b4
b5
b6
b7
b8
b9
b11
b12
b14
b15

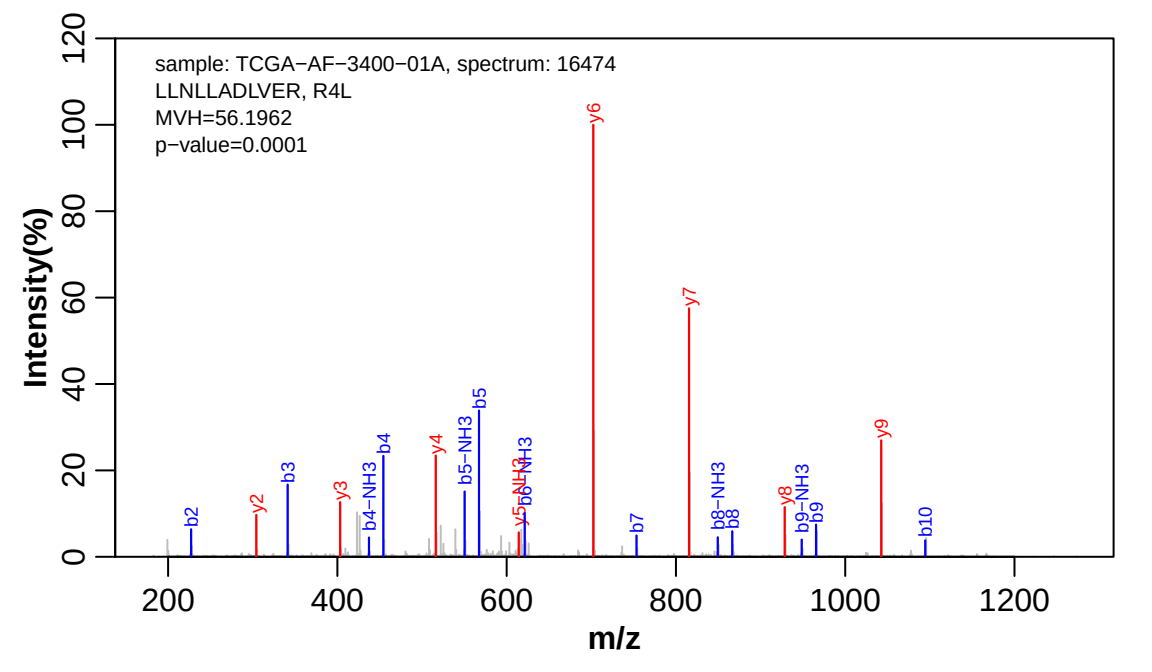

sample: TCGA−AF−3400−01A, spectrum: 12943
GVAGSSVAVLCPYNR, G5S
MVH=50.4401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y8
b7−H2O
b8−H2O
b11
y7
y5−NH3
y6−NH3
b9
b8
b7
y9
y10

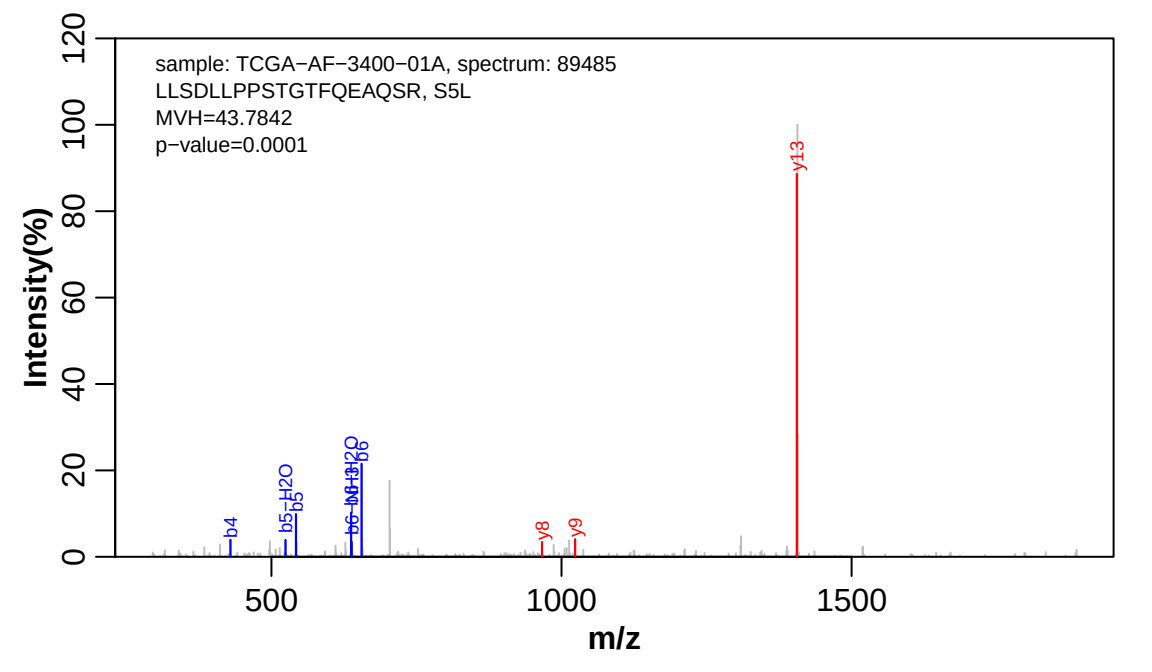

sample: TCGA−AF−3400−01A, spectrum: 85327
KSVEEYANCHLAR, P2S
MVH=77.6431
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b1
b4++
b5++−H2O
b5++
b3
y5++
y8+++
b9++−H2O
b9++
y6++−NH3
y6++
b7++
y7++
b4
b12+++
y8++
b5
y4++−H2O
y4++
b6

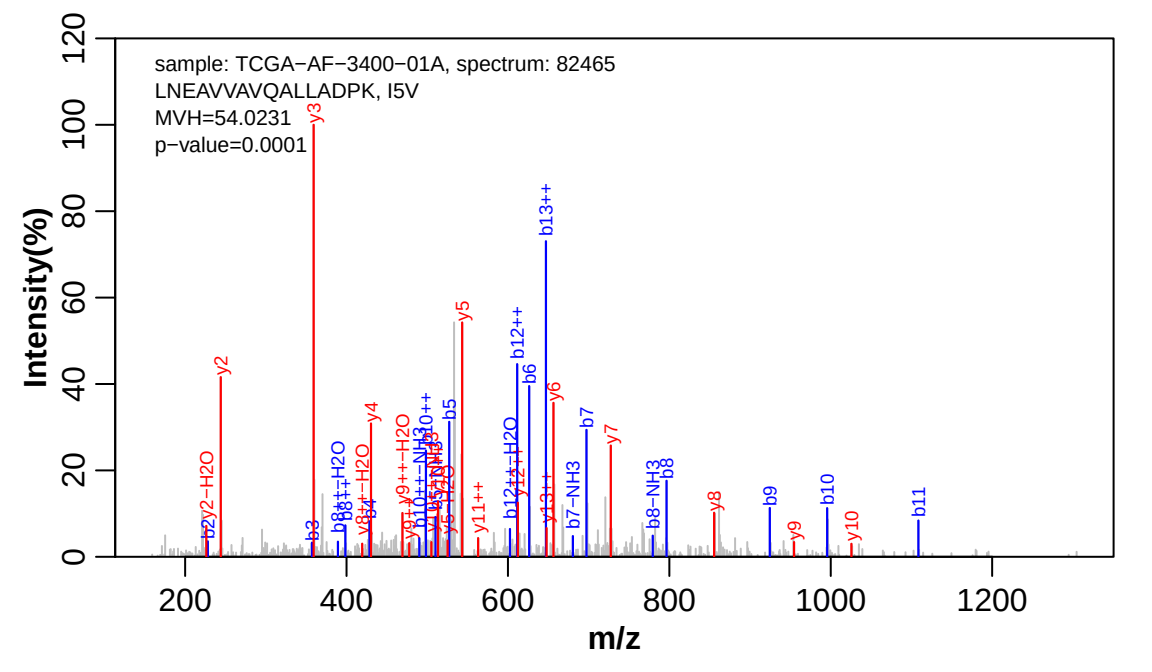

sample: TCGA−AF−3400−01A, spectrum: 13018
KVLLDGVQNLR, P10L
MVH=51.3000
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b1
y4++
b3
b7++−H2O
b7++
y7++−H2O
y3
y7++
b4
y4
b6
b7−NH3−H2O
b7

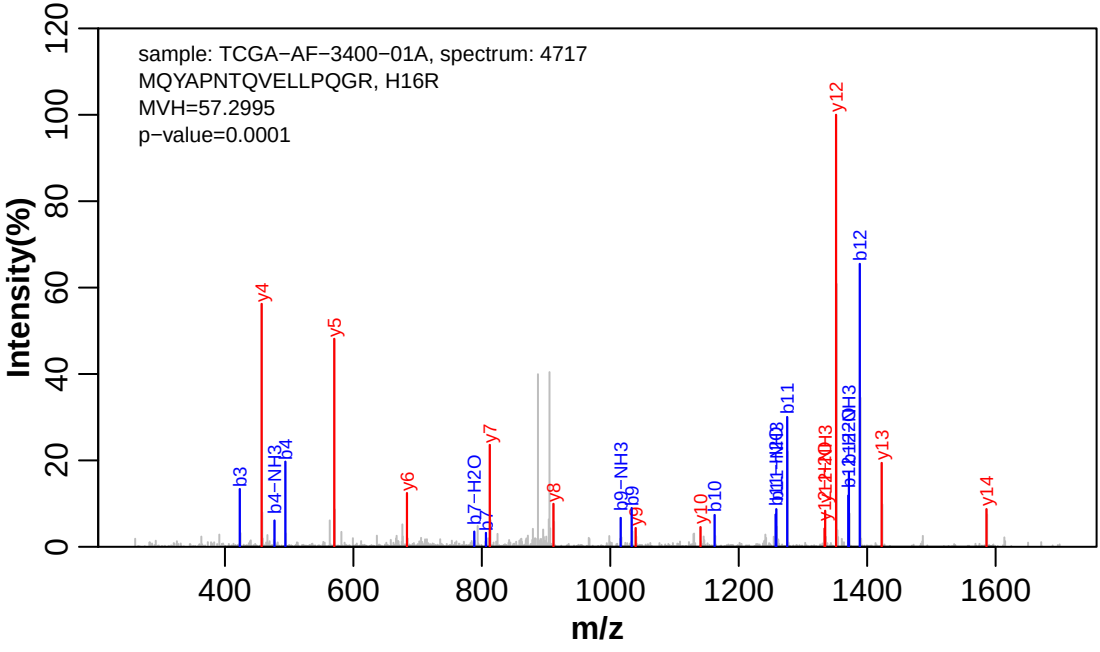

sample: TCGA−AF−3400−01A, spectrum: 111155
LDSTDFTSTLK, G8S
MVH=46.4161
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2−NH3
y2
y3
b4−H2O
y4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
y8
b9
y9
b10−NH3
b10
y10−NH3
y10

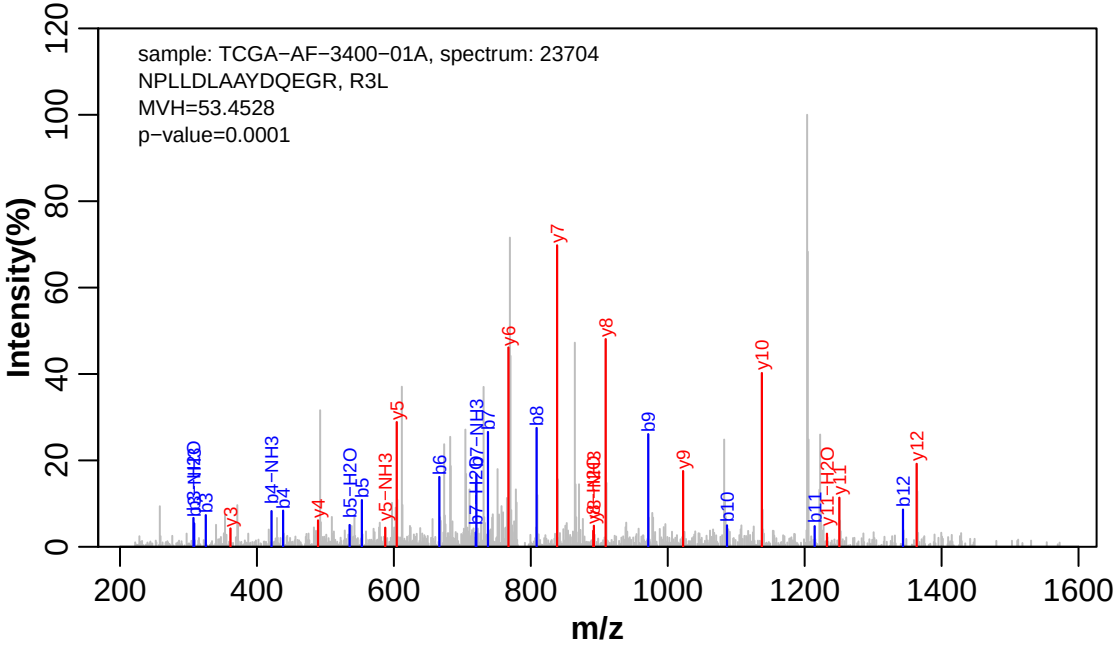

sample: TCGA−AF−3400−01A, spectrum: 15101
LFEEDPAVGALVLTGGDK, T1I
MVH=78.7155
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y6
y7
b7
b5−H2O
b7−H2O
b8−H2O
y5
y4
b3
b4
b9
b10
y12
b11
b12
y14
b13
y15
b14
y16

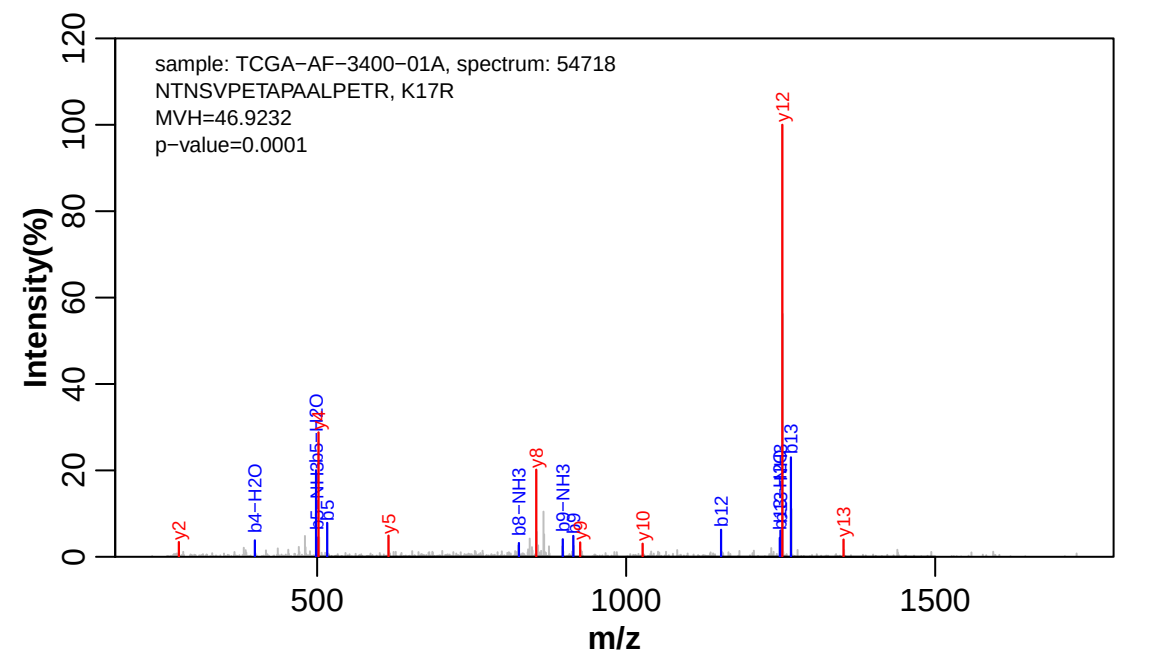

sample: TCGA−AF−3400−01A, spectrum: 16474
LLNLLADLVER, R4L
MVH=56.1962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y4
y3
y2
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
b9−NH3
b9
b10
y5−NH3
b6
b6−NH3

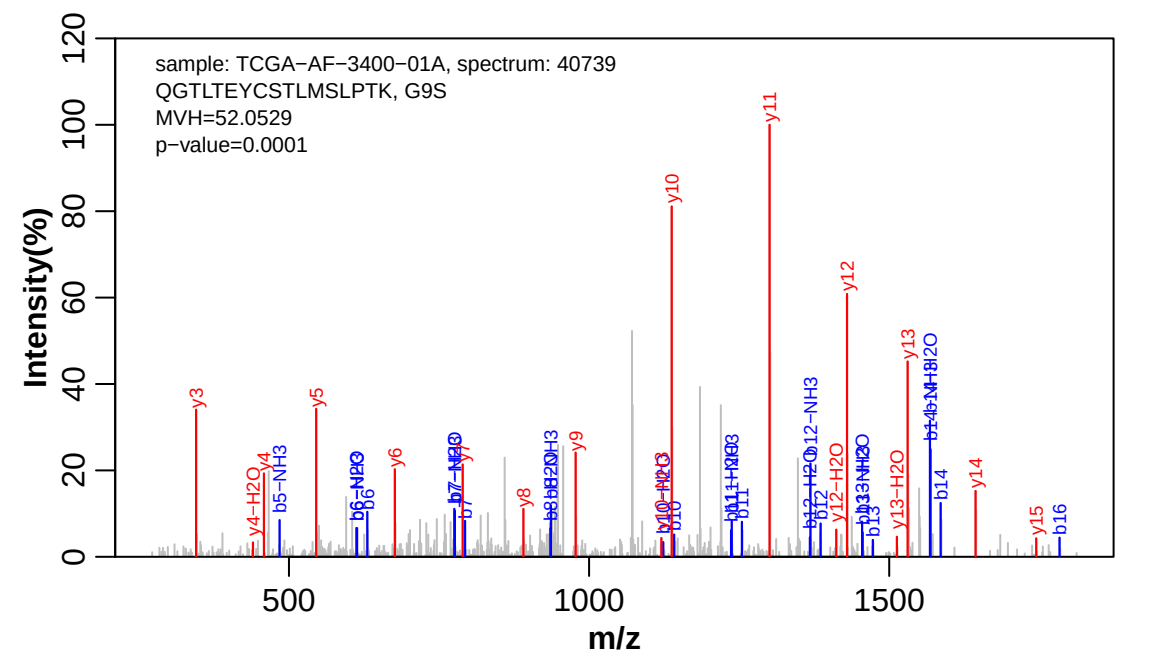

sample: TCGA−AF−3400−01A, spectrum: 89485
LLSDLLPPSTGTFQEAQSR, S5L
MVH=43.7842
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−H2O
b5
b6−NH3
b6−H2O
b6
y8
y9
y13

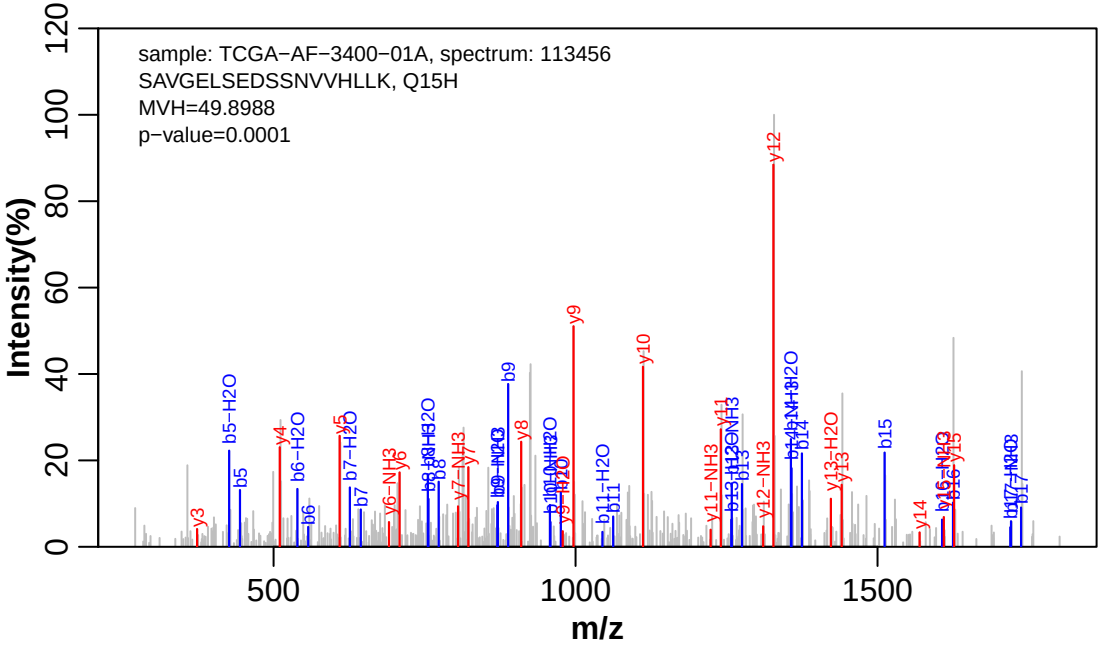

sample: TCGA−AF−3400−01A, spectrum: 82465
LNEAVVAVQALLADPK, I5V
MVH=54.0231
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
y2
y2−H2O
y4
y5
y6
y7
y8
y9
y10
y11++
y13++
b2
b3
b5
b6
b7
b7−NH3
b8
b8−NH3
b9
b10
b11
b12++
b13++

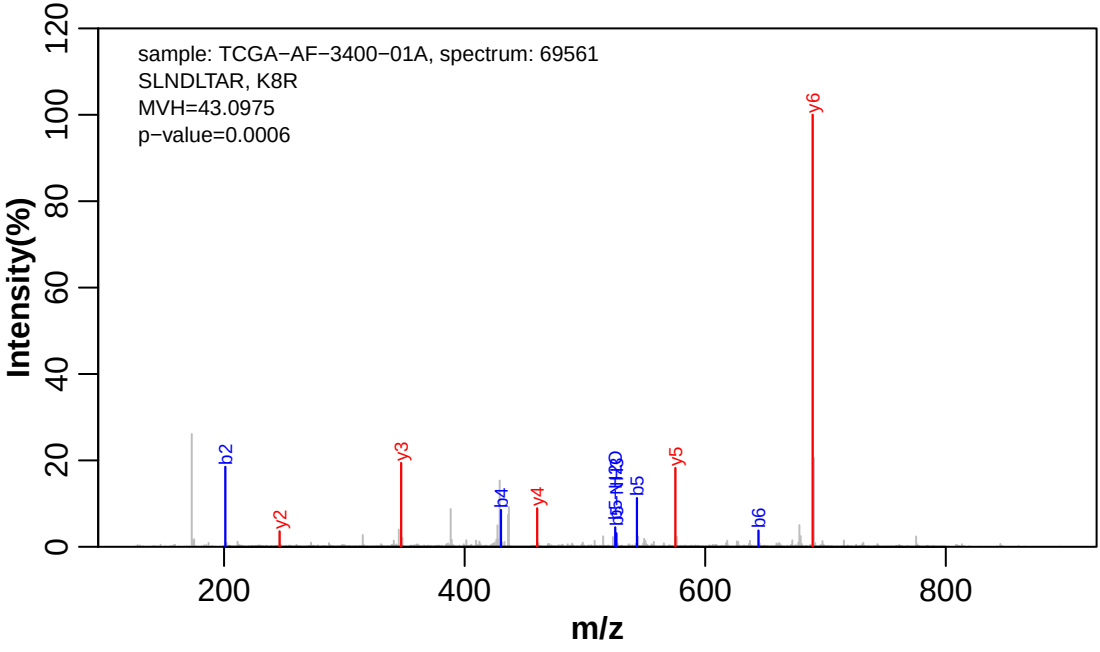

sample: TCGA−AF−3400−01A, spectrum: 4717
MQYAPNTQVELLPQGR, H16R
MVH=57.2995
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
b3
y4
b4−NH3
b4
y5
y6
b7−H2O
y7
b7
y8
b9−NH3
y9
y10
b10
b11
y12
b12
y13
y14

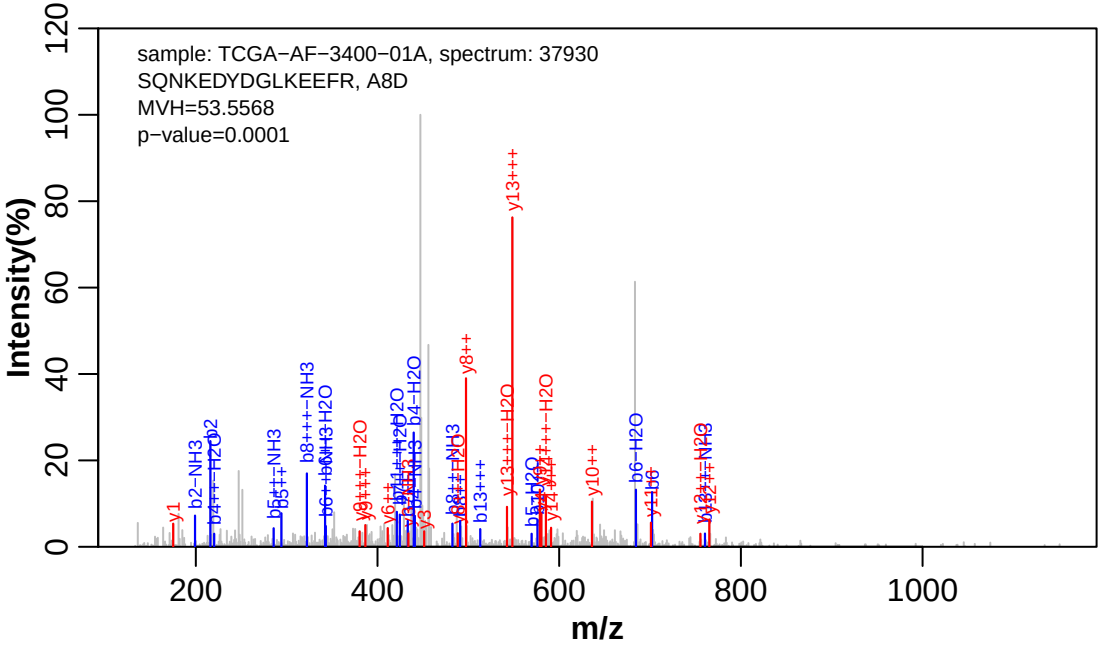

sample: TCGA−AF−3400−01A, spectrum: 23704
NPLLDLAAYDQEGR, R3L
MVH=53.4528
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4−NH3
b4
y4
b5−H2O
b5
y5−NH3
y5
b6
b7−H2O
b7−NH3
b7
y6
b8
y7
y8
b9
y9
y10
b10
b11
y11−H2O
y11
b12
y12

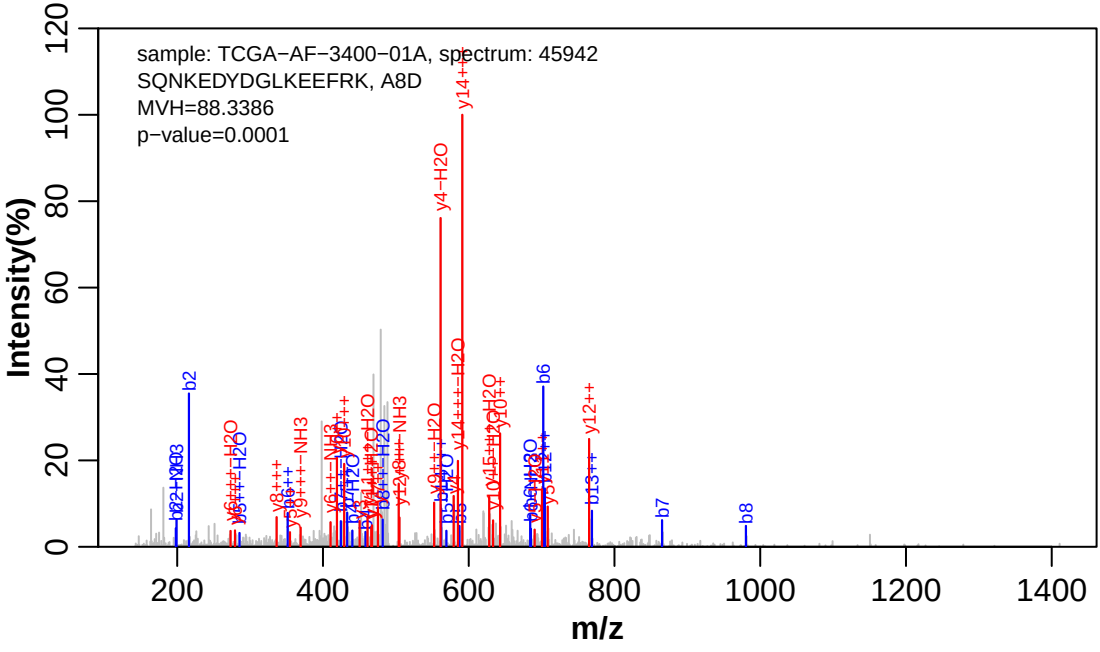

sample: TCGA−AF−3400−01A, spectrum: 54718
NTNSVPETAPAALPETR, K17R
MVH=46.9232
p−value=0.0001
Intensity(%)
m/z
y12
y8
b13
y2
b4−H2O
b5
y5
b8−NH3
b9−NH3
y9
y10
b12
y13

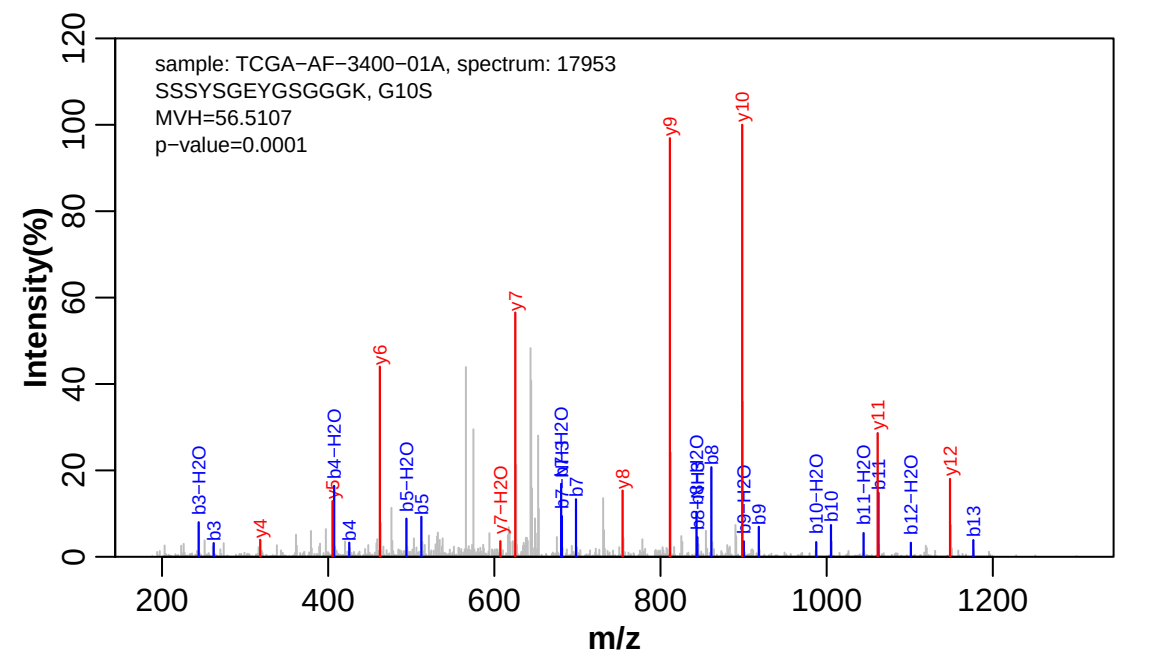

sample: TCGA−AF−3400−01A, spectrum: 40739
QGTLTEYCSTLMSLPTK, G9S
MVH=52.0529
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4−H2O
y4
b5−NH3
y5
b6−NH3
b6
y6
b7−NH3
b7
y7
y8
b8−H2O
b8−NH3
y9
y10−NH3
y10
b10
b11−H2O
b11−NH3
b11
y11
b12−H2O
b12−NH3
b12
y12−H2O
y12
b13−NH3
b13−H2O
b13
y13−H2O
y13
b14−NH3
b14−H2O
b14
y14
y15
b16

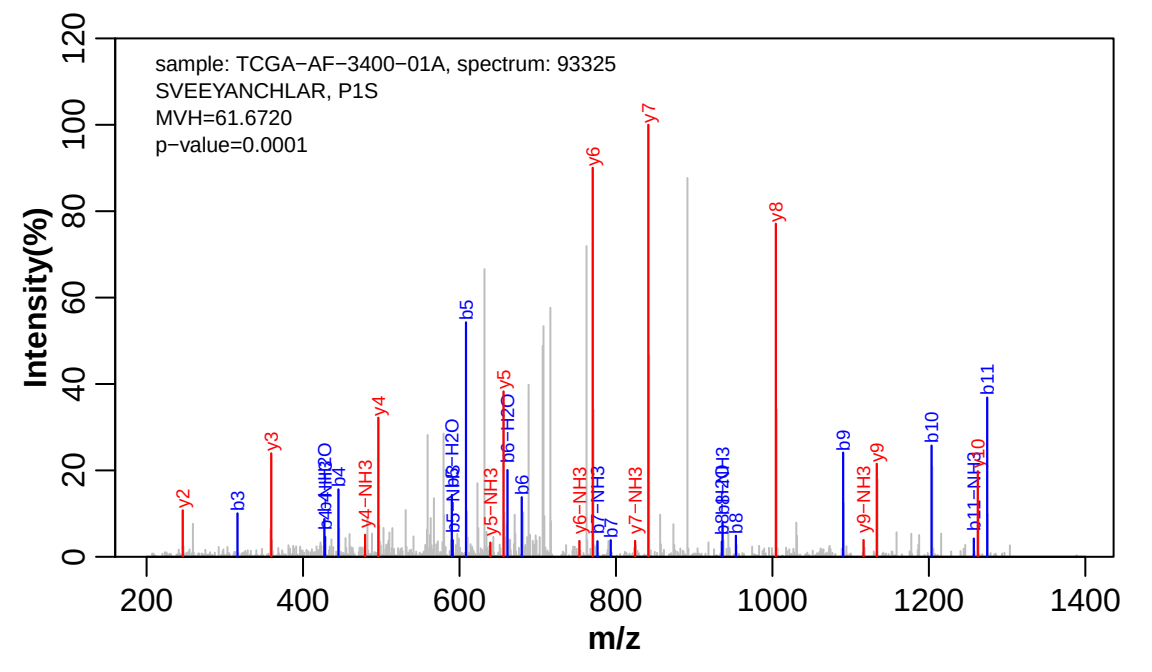

sample: TCGA−AF−3400−01A, spectrum: 113456
SAVGELSEDSSNVVHLLK, Q15H
MVH=49.8988
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y9
y10
b5−H2O
b5
y4
b6−H2O
b6
y5
b7−H2O
b7
y6−NH3
y6
b9
y8
y7−NH3
y7
y11
y11−NH3
y12−NH3
y13−H2O
y13
b15
y14
y15
b11−H2O

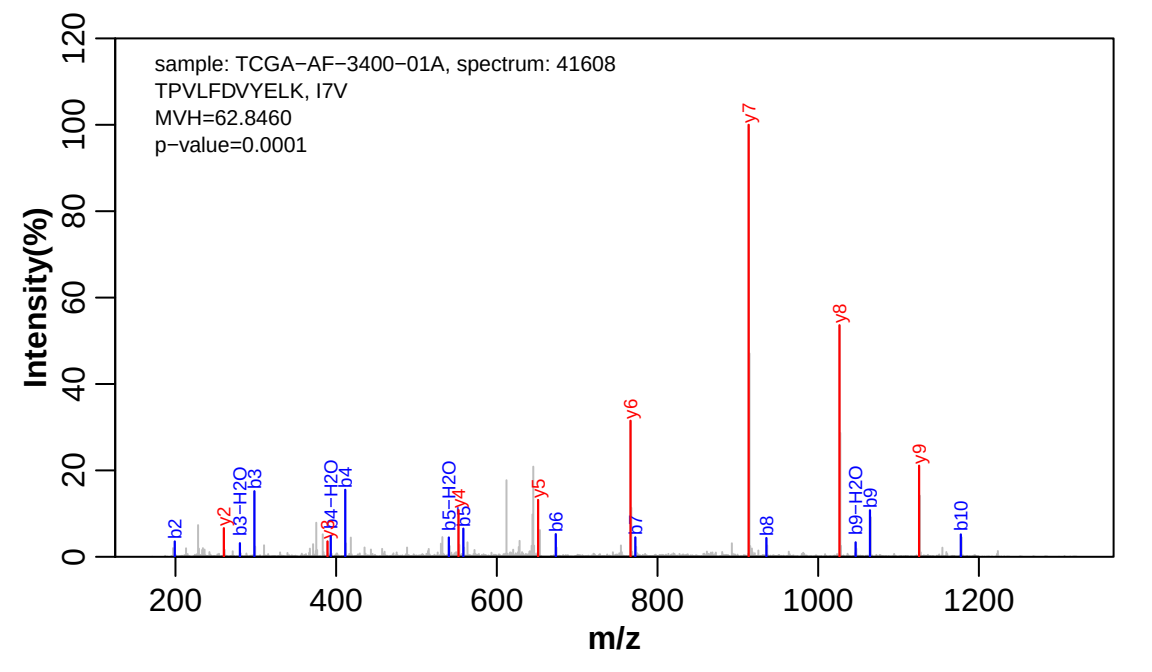

sample: TCGA−AF−3400−01A, spectrum: 69561
SLNDLTAR, K8R
MVH=43.0975
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
y3
b4
y4
b5
y5
b6
y6

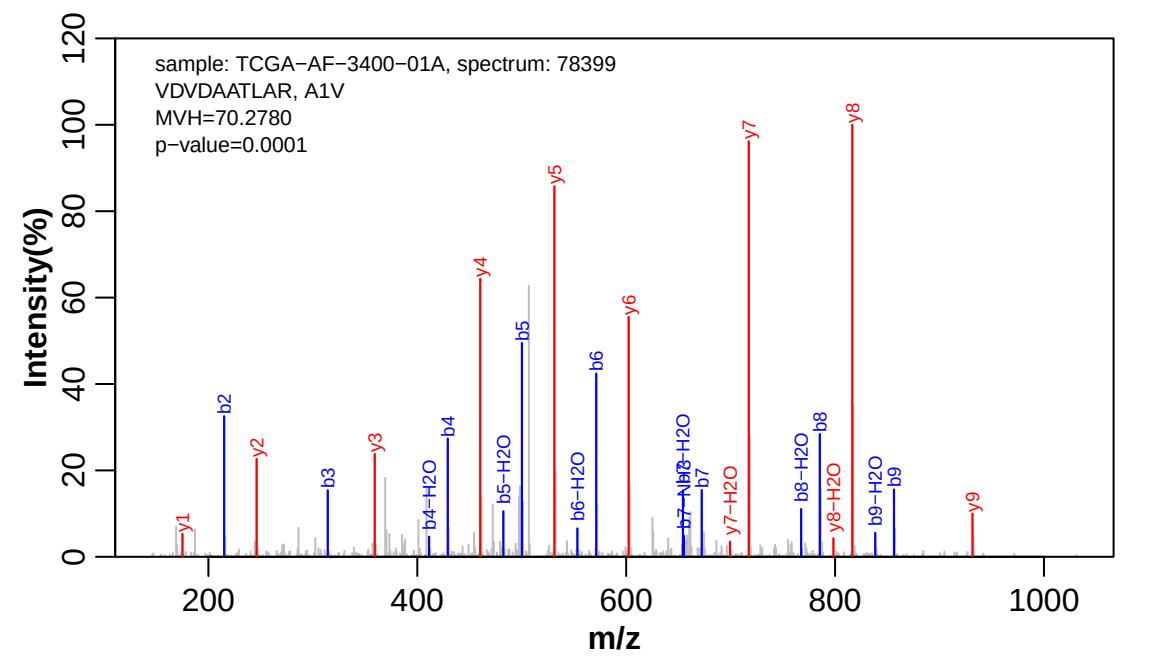

sample: TCGA−AF−3400−01A, spectrum: 37930
SQNKEDYDGLKEEFR, A8D
MVH=53.5568
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2−NH3
b2
b4++−H2O
b5++−NH3
b5++
b8+++−NH3
b6++−H2O
b6++−NH3
y9+++−H2O
y9+++
y6++
b4−H2O
y3
y8++
b13+++
y13+++
y13+++−H2O
y10++
b6−H2O
y11−b6
y12++−NH3

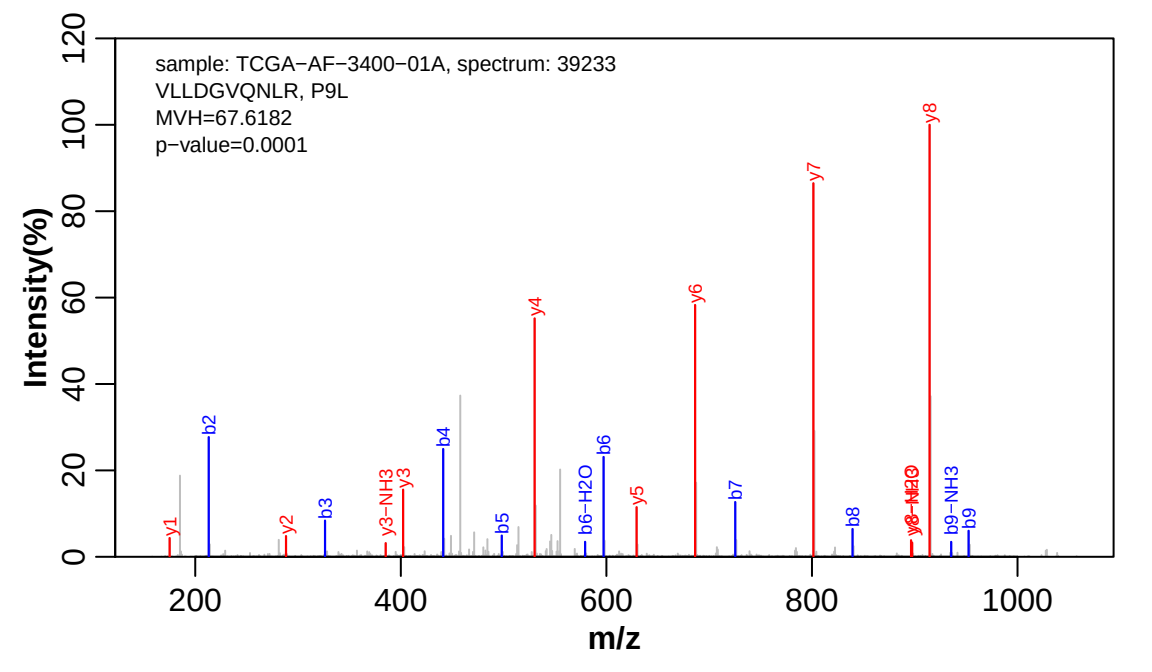

sample: TCGA−AF−3400−01A, spectrum: 45942
SQNKEDYDGLKEEFRK, A8D
MVH=88.3386
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4−H2O
y14++
b6
y12++
b13++
b7
b8

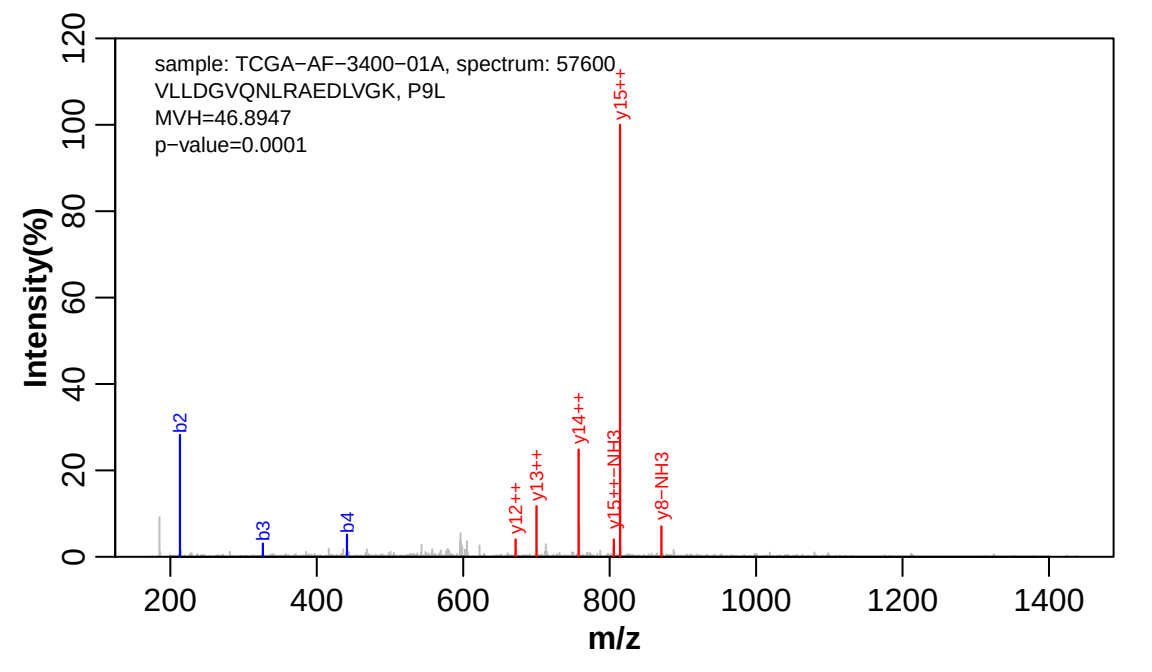

sample: TCGA−AF−3400−01A, spectrum: 17953
SSSYSGEYGSGGGK, G10S
MVH=56.5107
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9
y10
y7
y6
y11
y12
y8
b3−H2O
b3
y4
b4−H2O
y5
b4
b5−H2O
b5
y7−H2O
b7−H2O
b7
b8
b9−H2O
b9
b10−H2O
b10
b11−H2O
b11
b12−H2O
b13

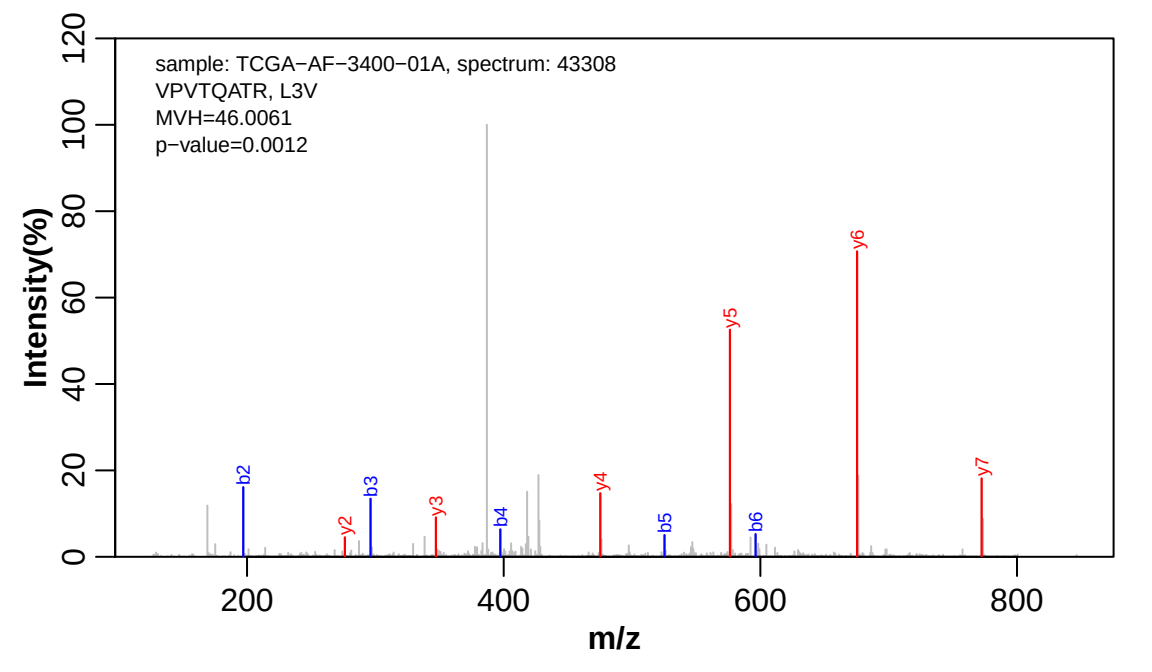

sample: TCGA−AF−3400−01A, spectrum: 93325
SVEEYANCHLAR, P1S
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
y4−NH3
b5
b5−H2O
y5
y5−NH3
b6
b6−H2O
y6
y6−NH3
b7
b7−NH3
y7
y7−NH3
b8
b8−H2O
b8−NH3
y8
b9
y9
y9−NH3
b10
b10−NH3
b11
b11−NH3

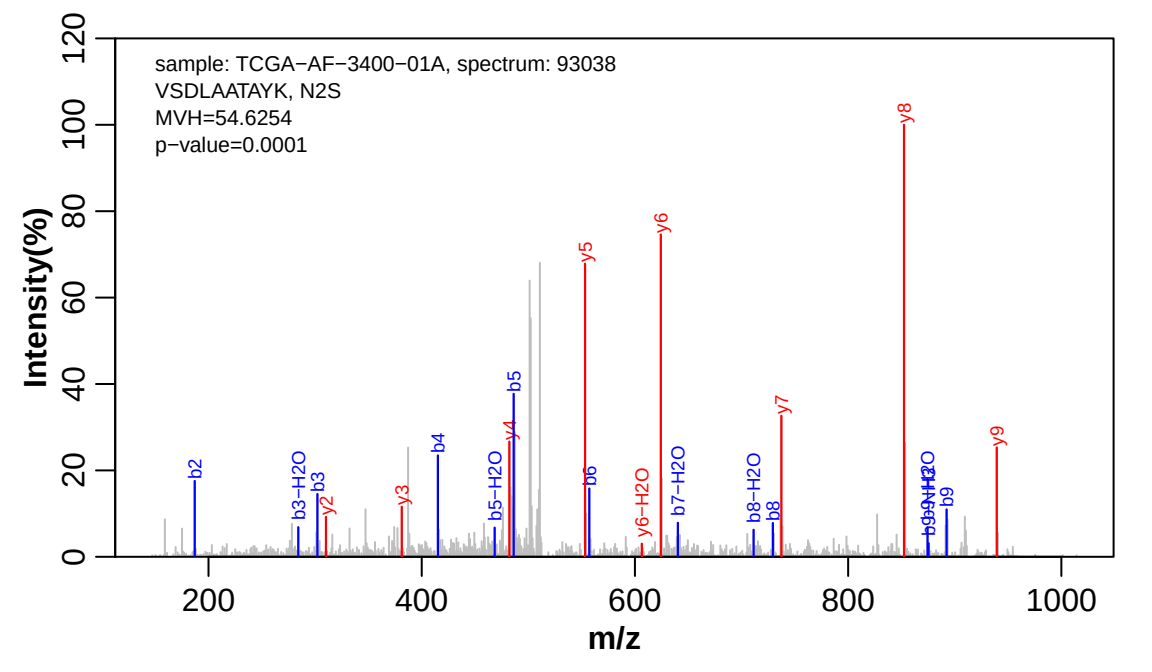

sample: TCGA−AF−3400−01A, spectrum: 41608
TPVLFDVYELK, I7V
MVH=62.8460
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
y4−H2O
b4
b5−H2O
b5
y4
y5
b6
y6
b7
y7
b8
y8
b9−H2O
b9
y9
b10

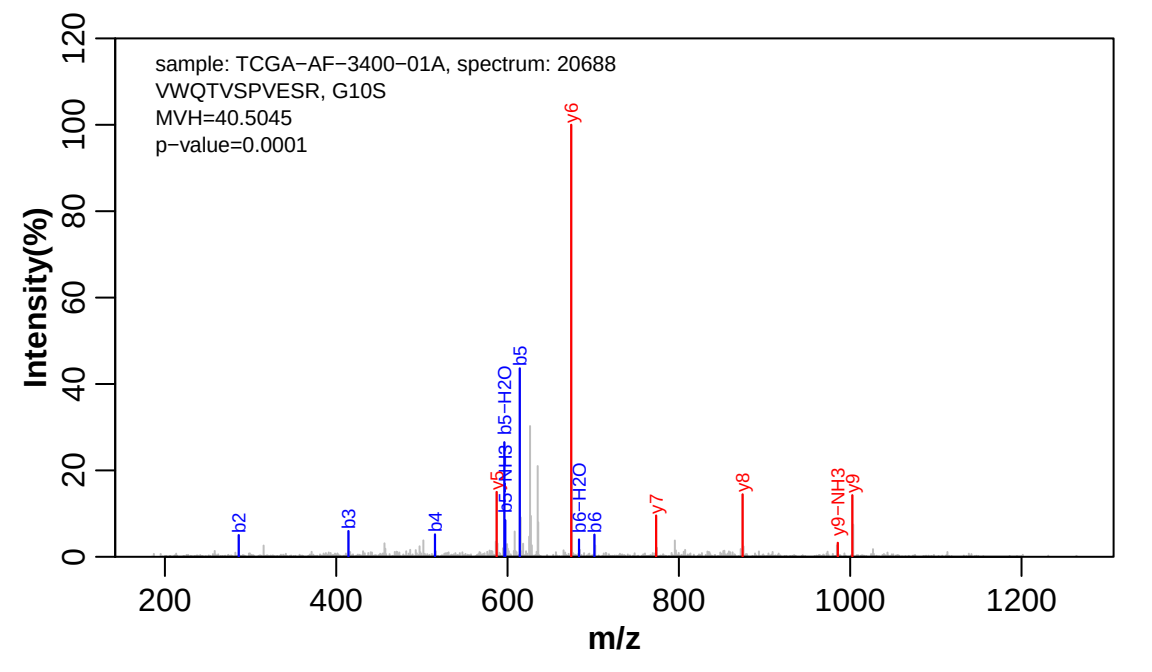

sample: TCGA−AF−3400−01A, spectrum: 78399
VDVDAATLAR, A1V
MVH=70.2780
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3
b4
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−H2O
y7
b8−H2O
b8
y8−H2O
y8
b9−H2O
b9
y9

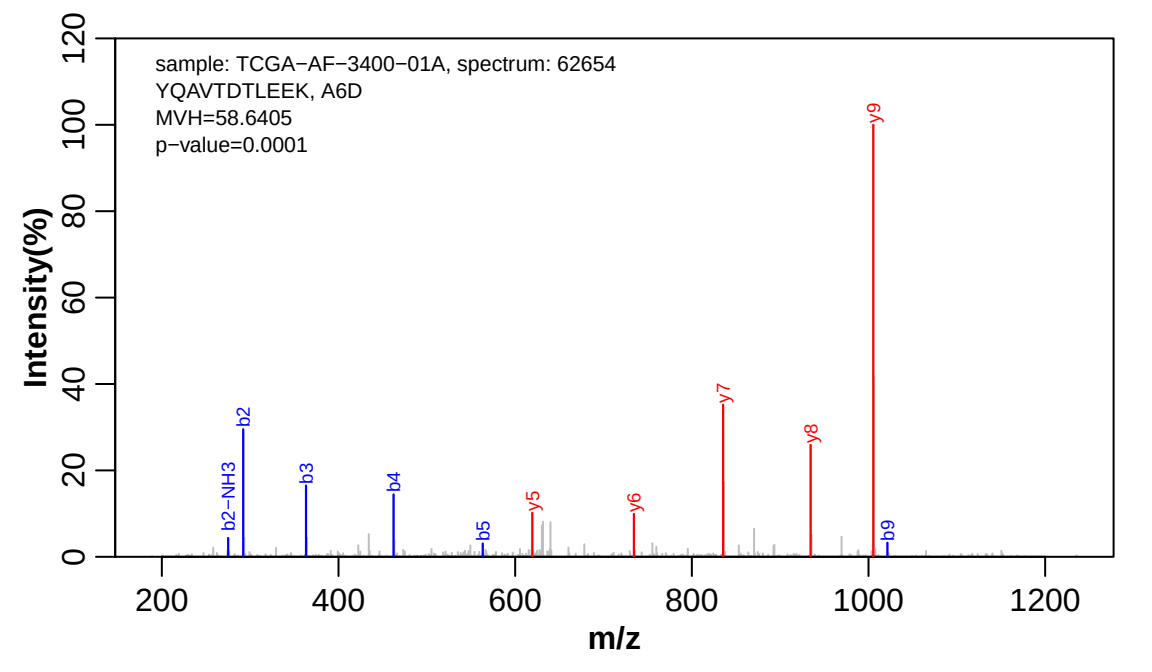

sample: TCGA−AF−3400−01A, spectrum: 39233
VLLDGVQNLR, P9L
MVH=67.6182
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3−NH3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9−NH3
b9

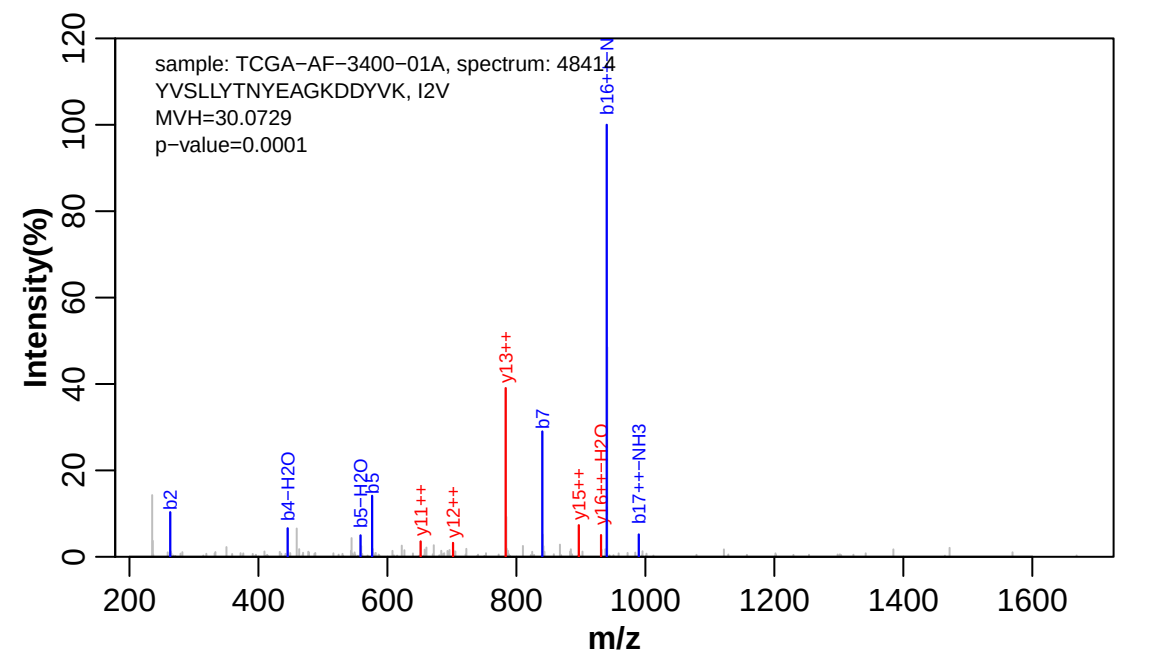

sample: TCGA−AF−3400−01A, spectrum: 57600
VLLDGVQNLRAEDLVGK, P9L
MVH=46.8947
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
b4
y12++
y13++
y14++
y15++−NH3
y15++
y8−NH3

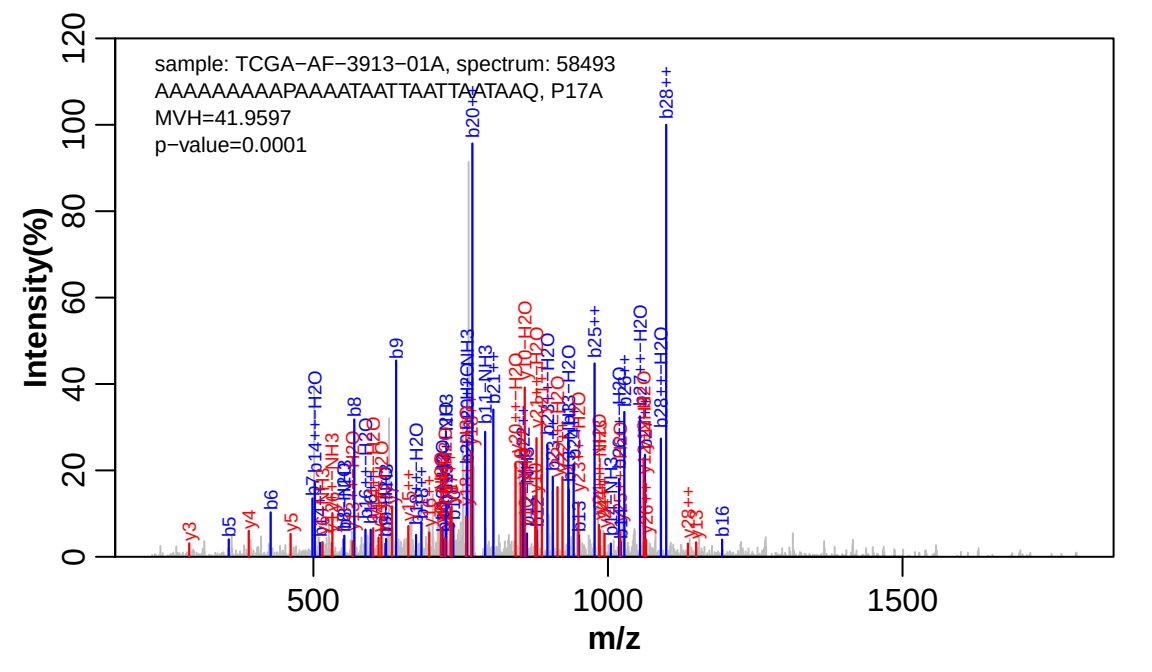

sample: TCGA−AF−3400−01A, spectrum: 43308
VPVTQATR, L3V
MVH=46.0061
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
b4
y4
b5
y5
b6
y6
y7

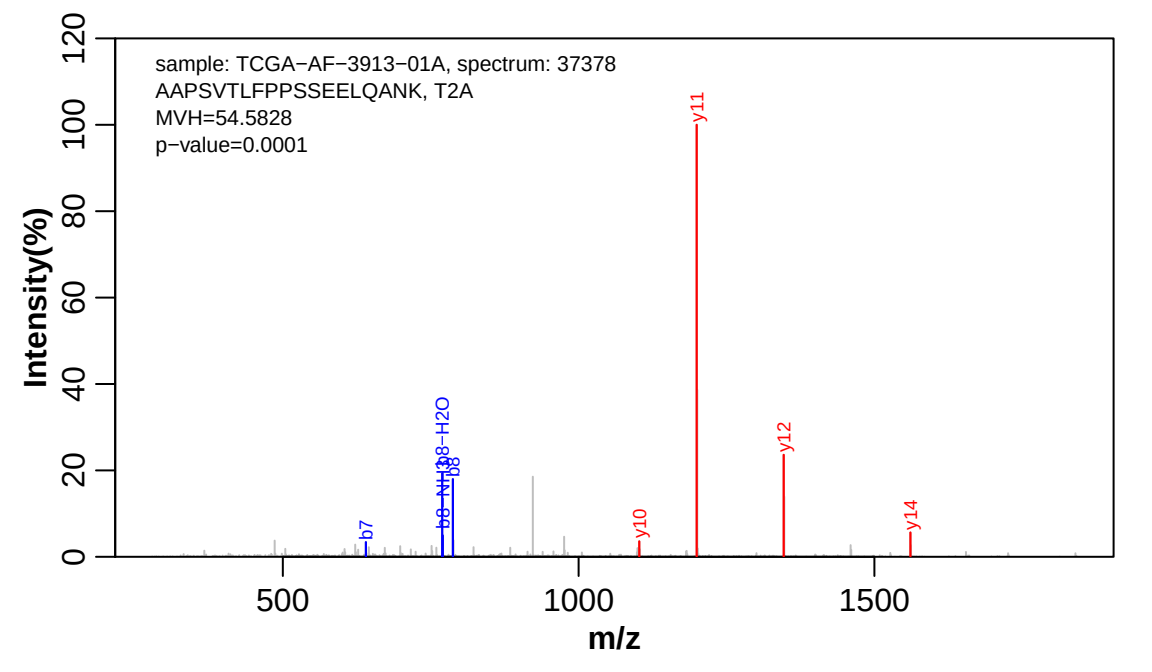

sample: TCGA−AF−3400−01A, spectrum: 93038
VSDLAATAYK, N2S
MVH=54.6254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−H2O
y4
b5
y5
b6
y6−H2O
y6
b7−H2O
b8−H2O
b8
y7
y8
b9
y9

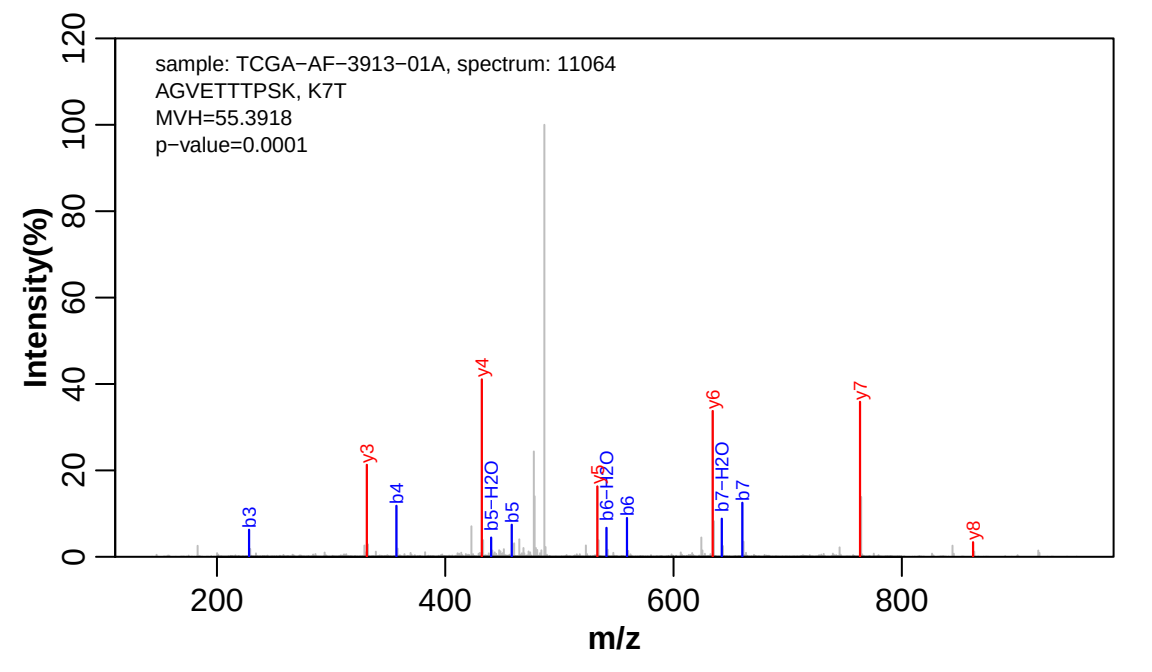

sample: TCGA−AF−3400−01A, spectrum: 20688
VWQTVSPVESR, G10S
MVH=40.5045
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
y6
b5
b5−H2O
b5−NH3
y5
b6−H2O
b6
y7
y8
y9−NH3
y9

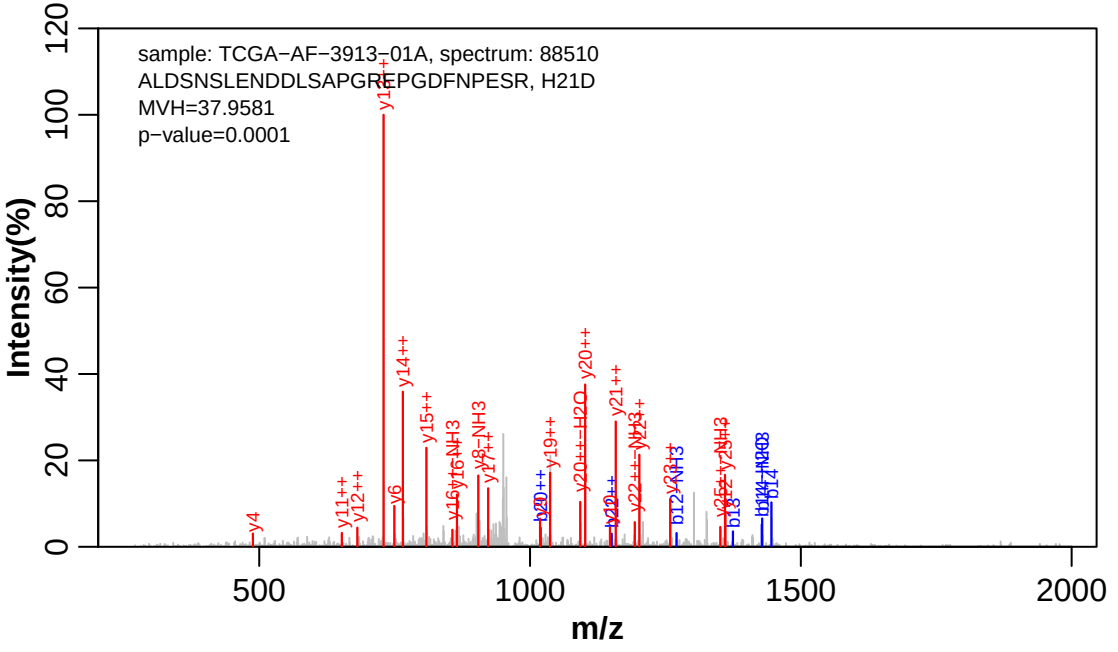

sample: TCGA−AF−3400−01A, spectrum: 62654
YQAVTDTLEEK, A6D
MVH=58.6405
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−NH3
b2
b3
b4
b5
y5
y6
y7
y8
y9
b9

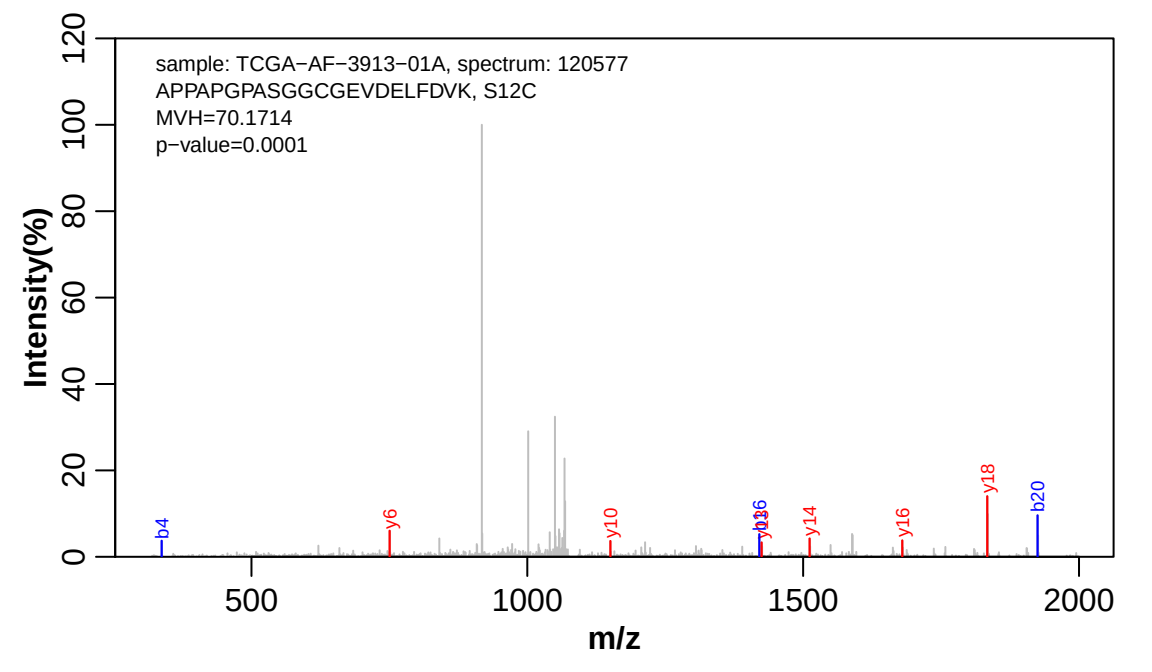

sample: TCGA−AF−3400−01A, spectrum: 48414
YVSLLYTNYEAGKDDYVK, I2V
MVH=30.0729
p−value=0.0001
Intensity(%)
m/z
b2
b4−H2O
b5−H2O
b5
y11++
y12++
y13++
b7
y15++
y16++−H2O
b16++N
b17++−NH3

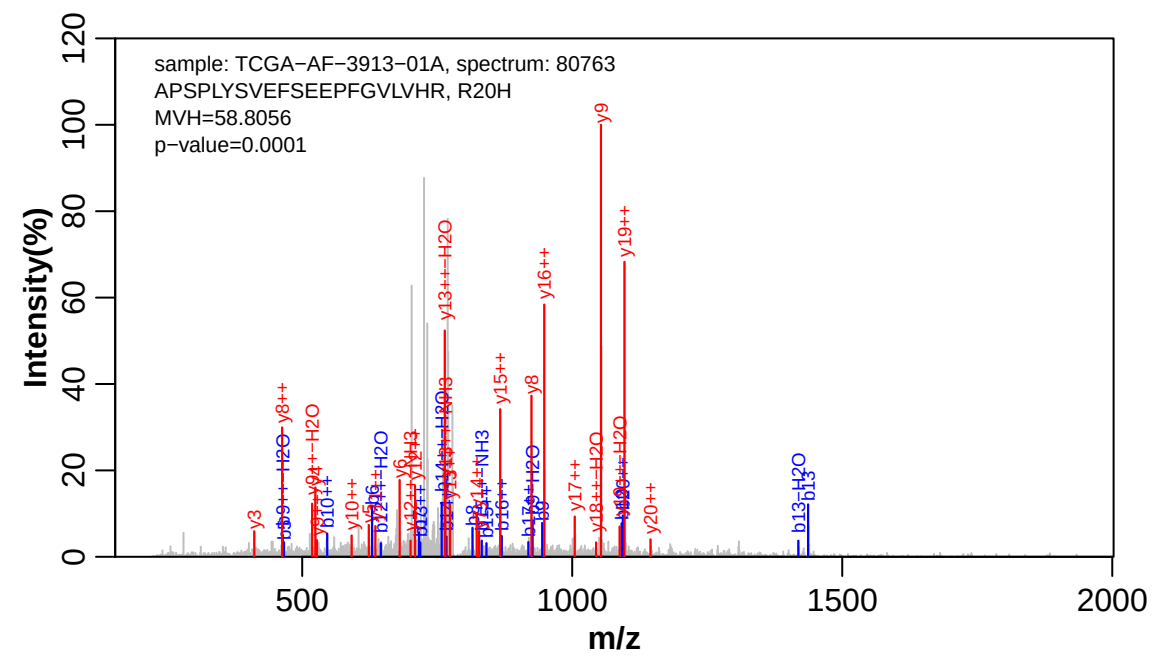

sample: TCGA−AF−3913−01A, spectrum: 58493
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=41.9597
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++
b25++
b9
b14++−H2O
b14++−NH3
b8
b6
b5
y4
y5
y3
b16
y28++
b2−NH3
b2
b14−NH3
b14−H2O
b14
b16++
y16++
y16++−H2O
y16++−NH3
b28++−H2O
b28++−NH3
b28++−2H2O
b20++−H2O
b20++−NH3
b20++−2H2O
b13
b13−NH3
b13−H2O
y23++−H2O
y23++−NH3
y23++−2H2O
b28++−H2O−NH3
b28++−2NH3
b28++−H2O−2NH3
b28++−3H2O
b28++−4H2O
b28++−2NH3−H2O
b28++−2H2O−NH3
b28++−3NH3
b28++−4NH3
b28++−3H2O−NH3
b28++−2H2O−2NH3
b28++−3H2O−2NH3
b28++−4H2O−NH3
b28++−4H2O−2NH3
b28++−3H2O−3NH3
b28++−4H2O−3NH3
b28++−4H2O−4NH3
b28++−H2O
b28++−NH3
b28++−2H2O
b28++−2NH3
b28++−H2O−NH3
b28++−3H2O
b28++−4H2O
b28++−2NH3−H2O
b28++−2H2O−NH3
b28++−3NH3
b28++−4NH3
b28++−3H2O−NH3
b28++−2H2O−2NH3
b28++−3H2O−2NH3
b28++−4H2O−NH3
b28++−4H2O−2NH3
b28++−3H2O−3NH3
b28++−4H2O−3NH3
b28++−4H2O−4NH3
b28++
y28++
y28++−H2O
y28++−NH3
y28++−2H2O
y28++−2NH3
y28++−H2O−NH3
y28++−3H2O
y28++−4H2O
y28++−2NH3−H2O
y28++−2H2O−NH3
y28++−3NH3
y28++−4NH3
y28++−3H2O−NH3
y28++−2H2O−2NH3
y28++−3H2O−2NH3
y28++−4H2O−NH3
y28++−4H2O−2NH3
y28++−3H2O−3NH3
y28++−4H2O−3NH3
y28++−4H2O−4NH3
y28++−H2O
y28++−NH3
y28++−2H2O
y28++−2NH3
y28++−H2O−NH3
y28++−3H2O
y28++−4H2O
y28++−2NH3−H2O
y28++−2H2O−NH3
y28++−3NH3
y28++−4NH3
y28++−3H2O−NH3
y28++−2H2O−2NH3
y28++−3H2O−2NH3
y28++−4H2O−NH3
y28++−4H2O−2NH3
y28++−3H2O−3NH3
y28++−4H2O−3NH3
y28++−4H2O−4NH3

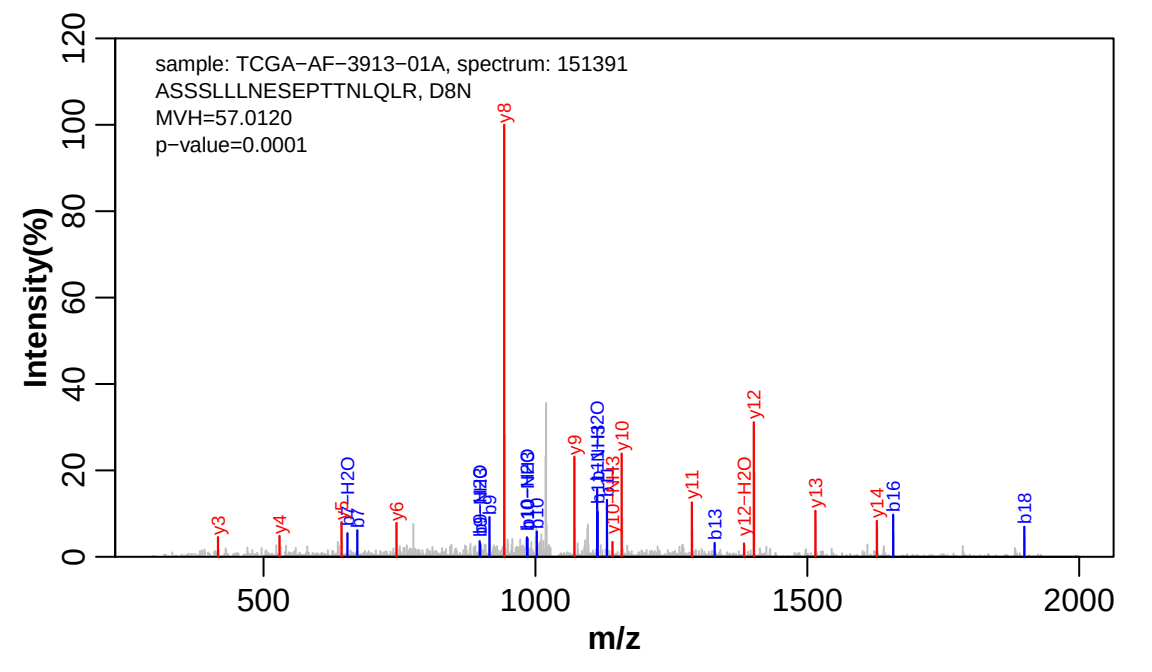

sample: TCGA−AF−3913−01A, spectrum: 37378
AAPSVTLFPPSSEELQANK, T2A
MVH=54.5828
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
b8−NH3
b8
b8−H2O
y10
y11
y12
y14

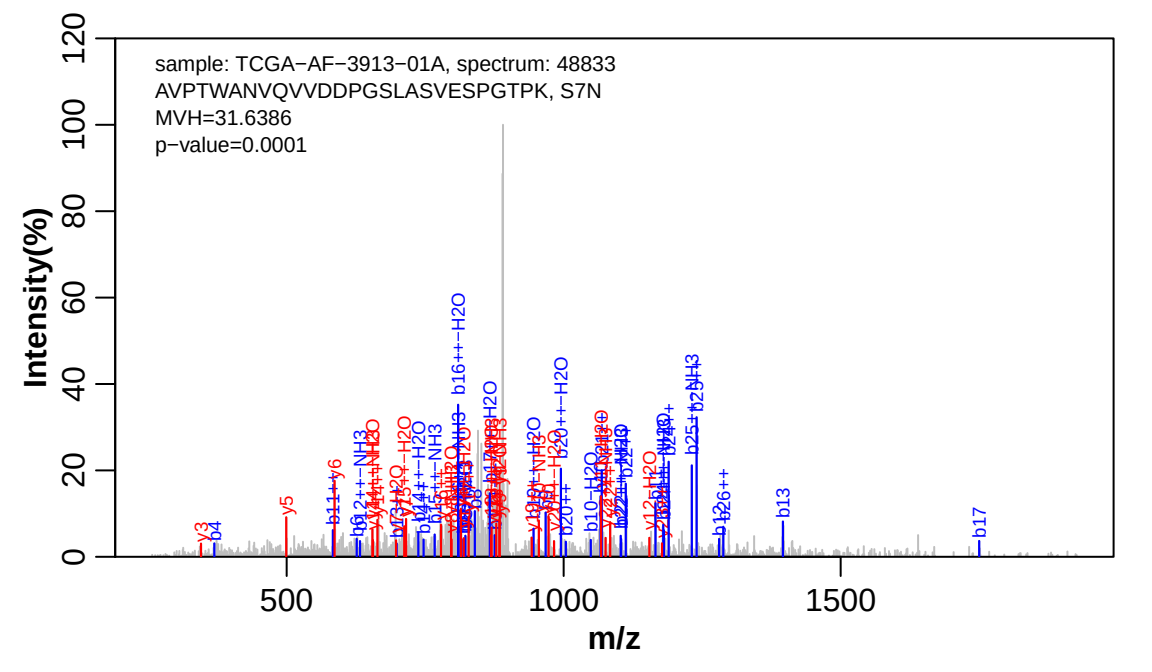

sample: TCGA−AF−3913−01A, spectrum: 11064
AGVETTTPSK, K7T
MVH=55.3918
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

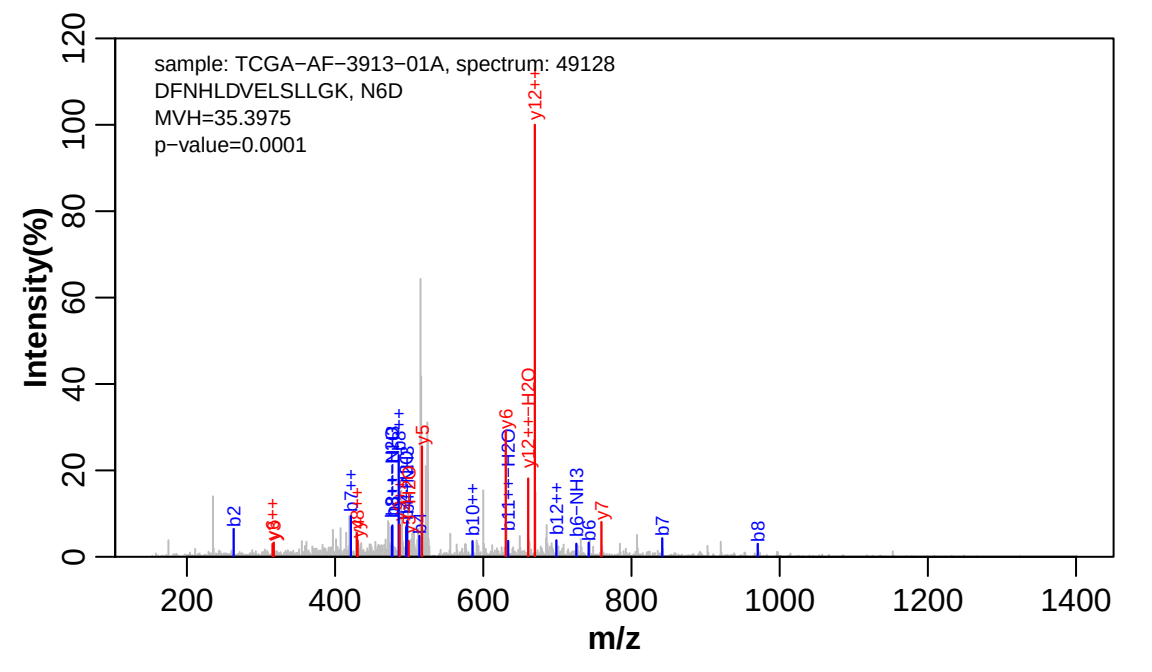

sample: TCGA−AF−3913−01A, spectrum: 88510
ALDSNSLENDDLSAPGREPGDFNPESR, H21D
MVH=37.9581
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y11++
y12++
y16++
y6
y14++
y15++
y16++−NH3
y8−NH3
y17++
b20++
y19++
y20++−H2O
y20++
y21++
b21++
y22++−NH3
y22++
b23++
b12++−NH3
y25++−NH3
b13
b14

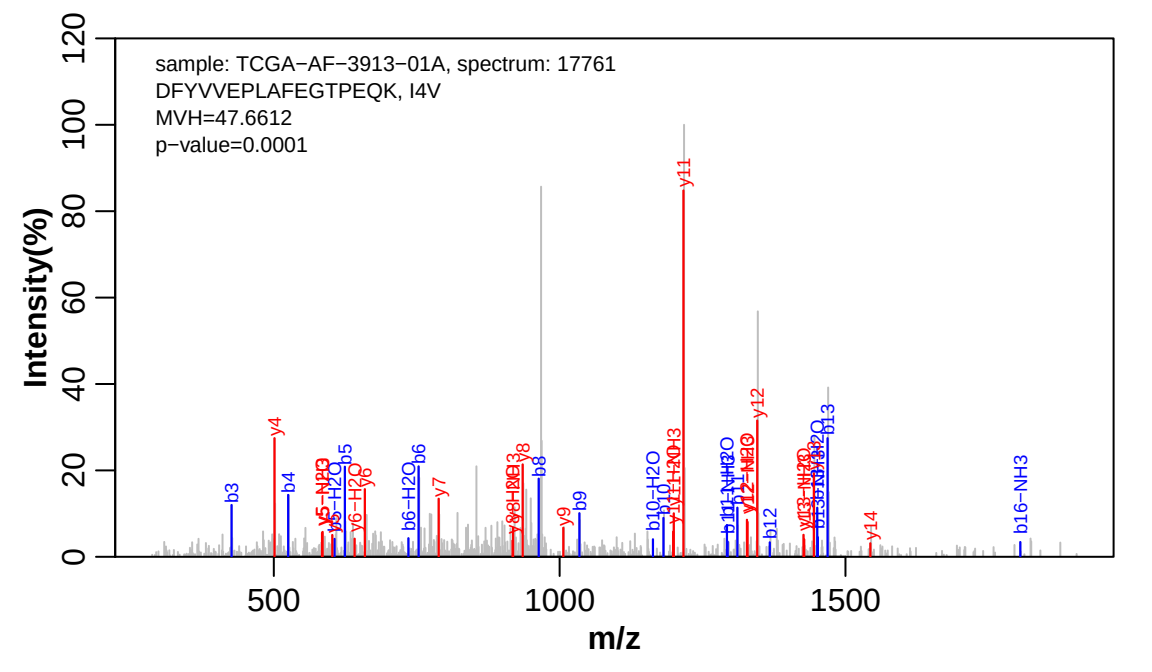

sample: TCGA−AF−3913−01A, spectrum: 120577
APPAPGPASGGCGEVDELFDVK, S12C
MVH=70.1714
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4
y6
y10
y16
y14
y16
y18
b20

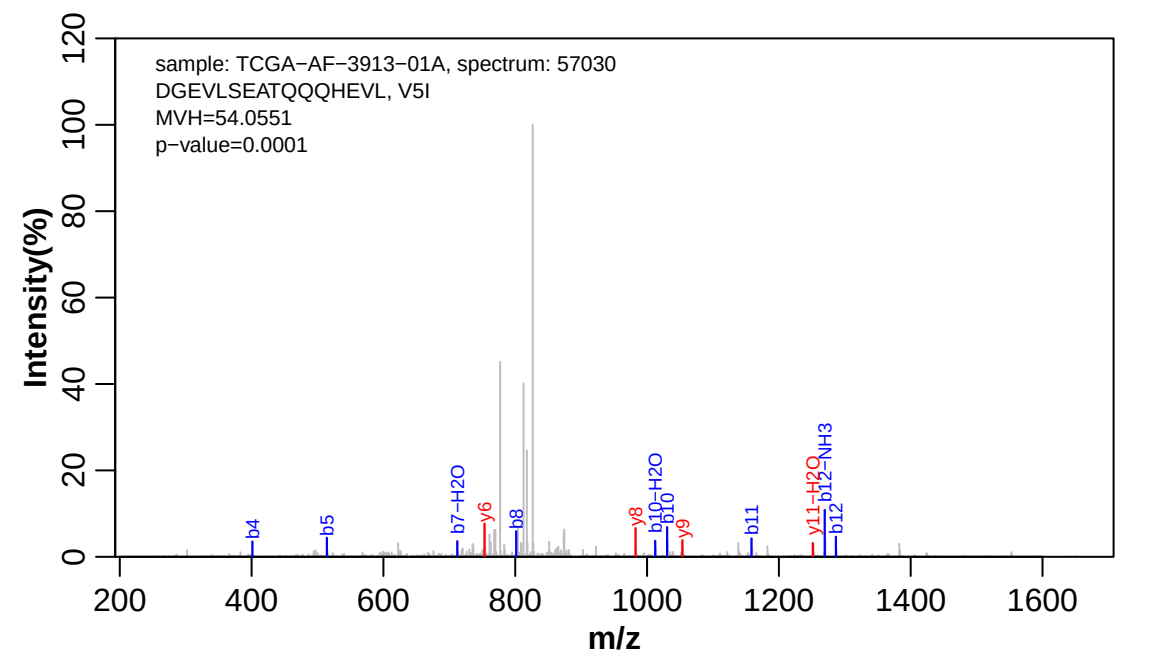

sample: TCGA−AF−3913−01A, spectrum: 80763
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=58.8056
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y8++
y9
y19++
y16++
y15++
y8
y17++
y20++
b13−H2O
b13

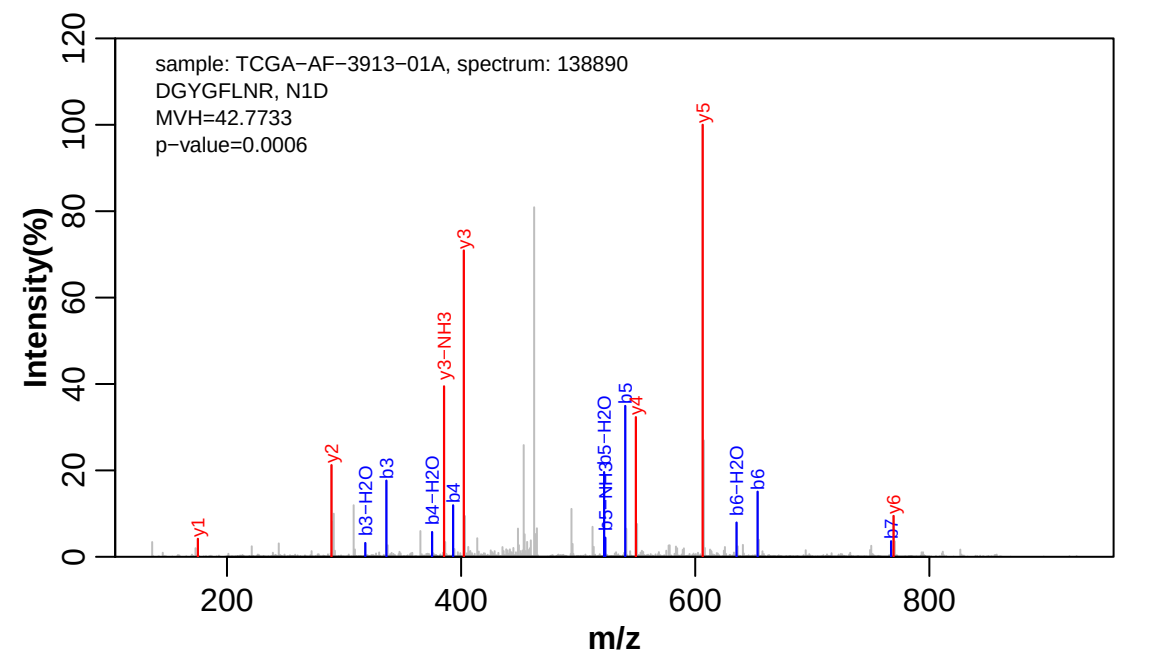

sample: TCGA−AF−3913−01A, spectrum: 151391
ASSSLLLNESEPTTNLQLR, D8N
MVH=57.0120
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y9
y10
y11
y12
y12−H2O
y13
y14
b16
b18
y3
y4
y5
y5−H2O
b7
y6
b13

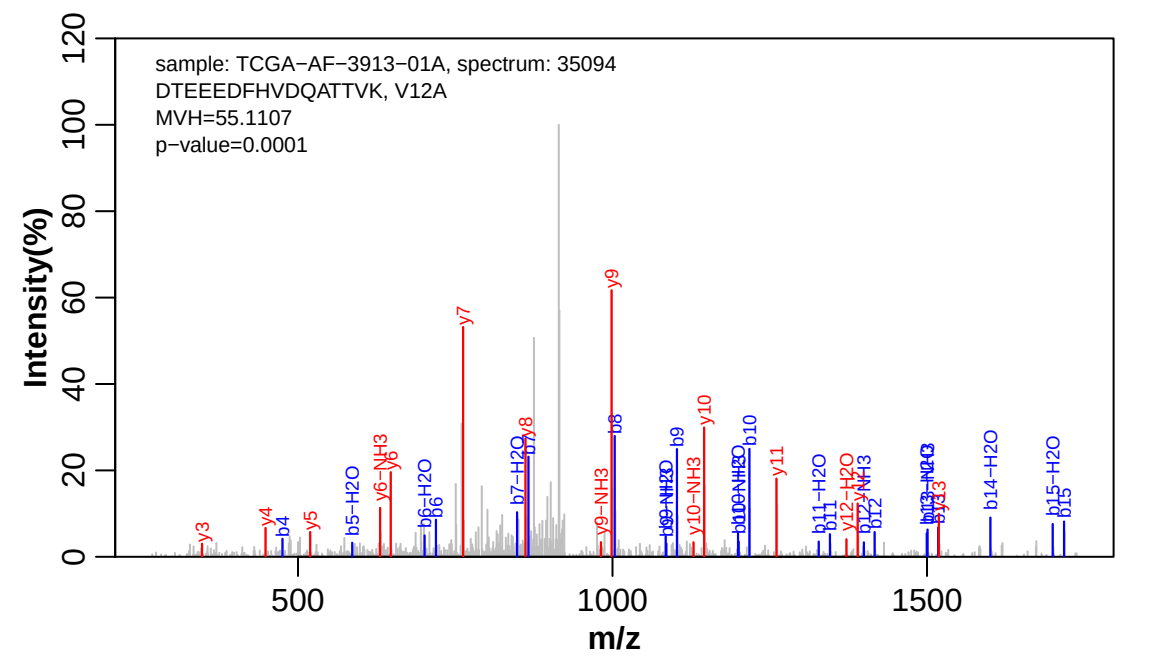

sample: TCGA−AF−3913−01A, spectrum: 48833
AVPTWANVQVVDDPGSLASVESPGTPK, S7N
MVH=31.6386
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
b17
b13

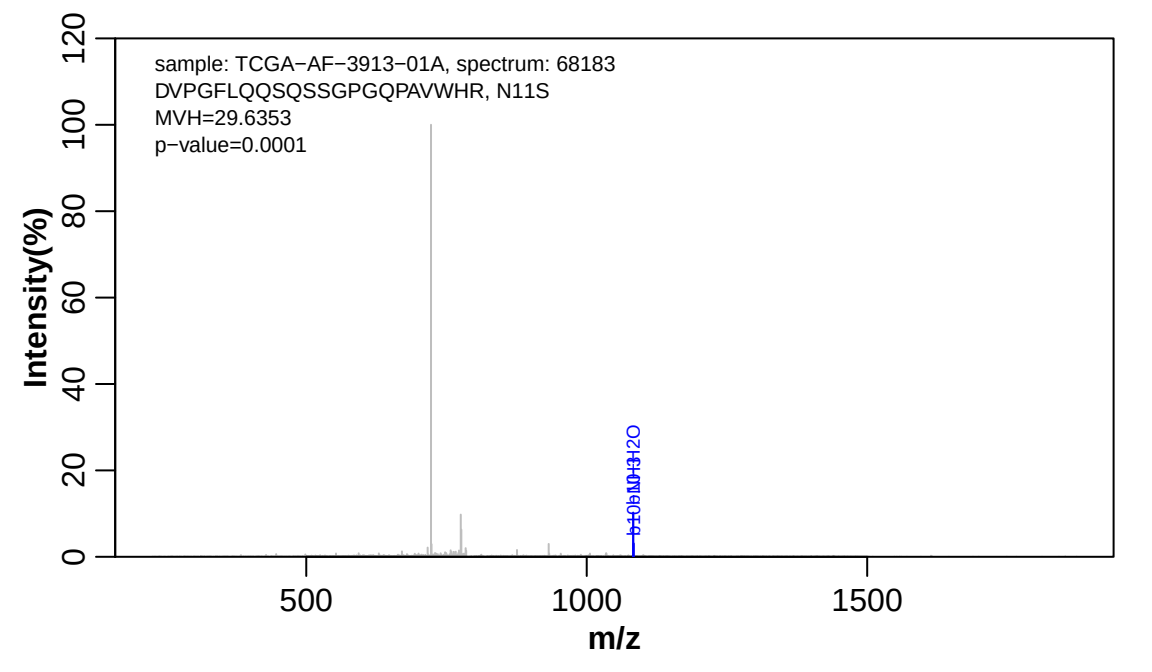

sample: TCGA−AF−3913−01A, spectrum: 49128
DFNHLDVELSLLGK, N6D
MVH=35.3975
p−value=0.0001
Intensity(%)
m/z
y12++
y12++−H2O
y6
y5
b2
b10++
b11++−H2O
b12++
b6−NH3
y7
b7
b8

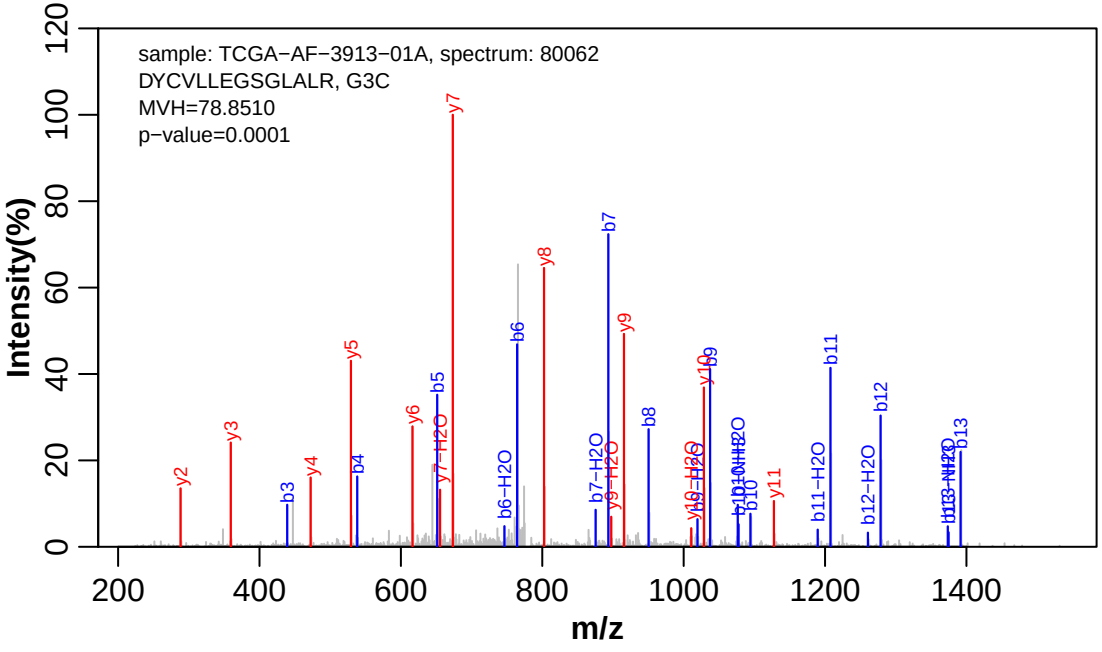

sample: TCGA−AF−3913−01A, spectrum: 17761
DFYVVEPLAFEGTPEQK, I4V
MVH=47.6612
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y4
b3
b4
b5
b6
b8
b9
y7
y8
y9
y12
b12
b13
y14
b16−NH3
b6−H2O
b10−H2O

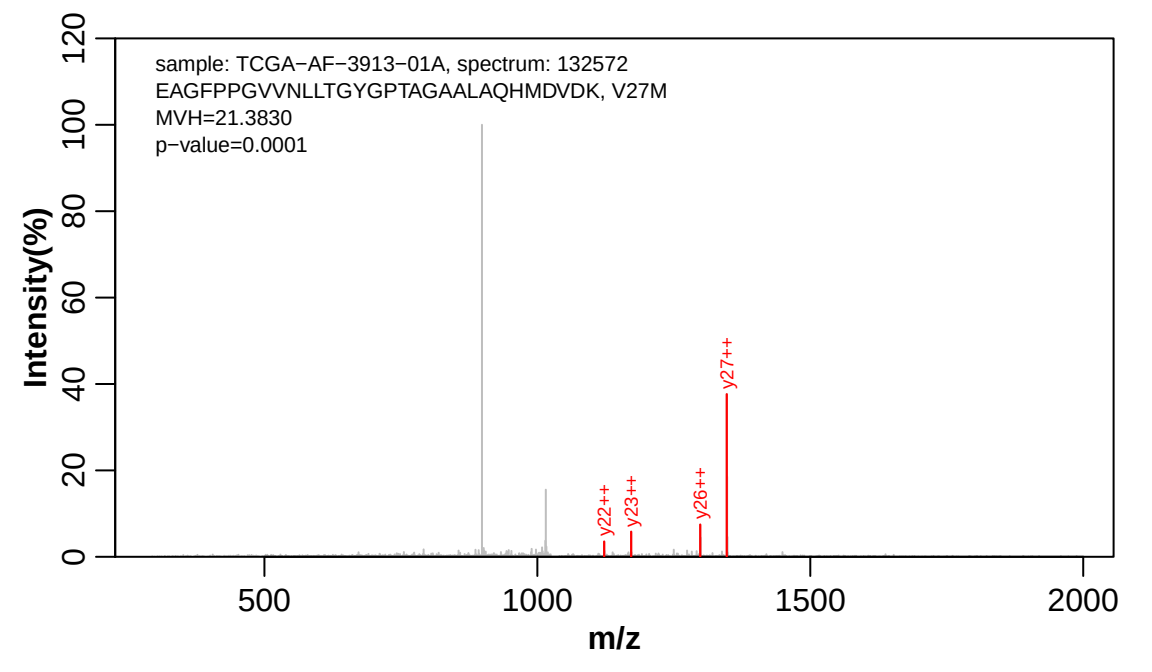

sample: TCGA−AF−3913−01A, spectrum: 57030
DGEVLSEATQQQHEVL, V5I
MVH=54.0551
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
b5
b7−H2O
y6
b8
y8
b10−H2O
b10
y9
b11
y11−H2O
b12−NH3
b12

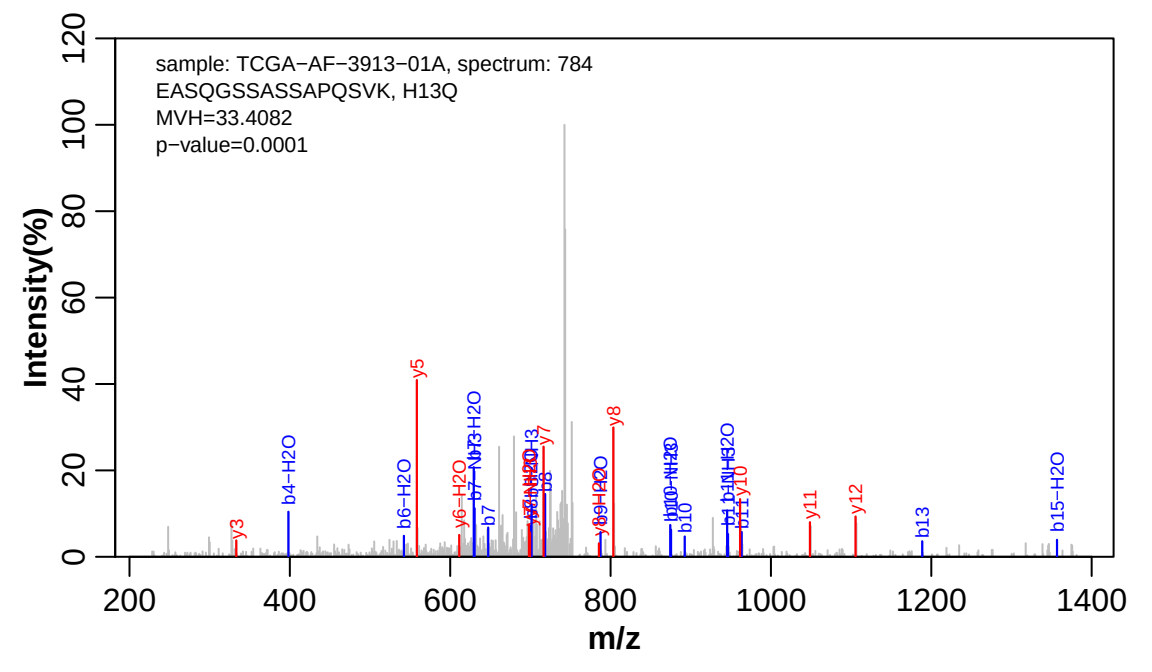

sample: TCGA−AF−3913−01A, spectrum: 138890
DGYGFLNR, N1D
MVH=42.7733
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

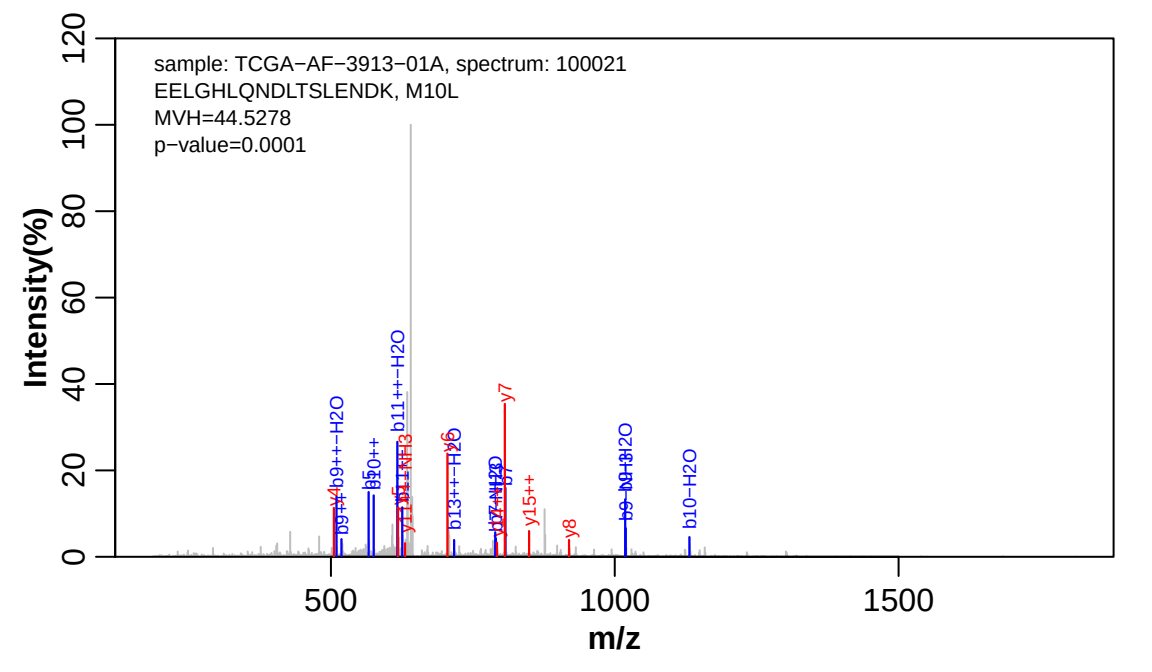

sample: TCGA−AF−3913−01A, spectrum: 35094
DTEEEDFHVDQATTVK, V12A
MVH=55.1107
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
b4
y5
b5−H2O
y6−NH3
y6
b6−H2O
b6
y7
b7−H2O
b7
y8
y9
y9−NH3
b8
y10
y10−NH3
b9
b10
y11
b11−H2O
b11
y12−H2O
y12−NH3
b12
b14−H2O
b15−H2O
b15

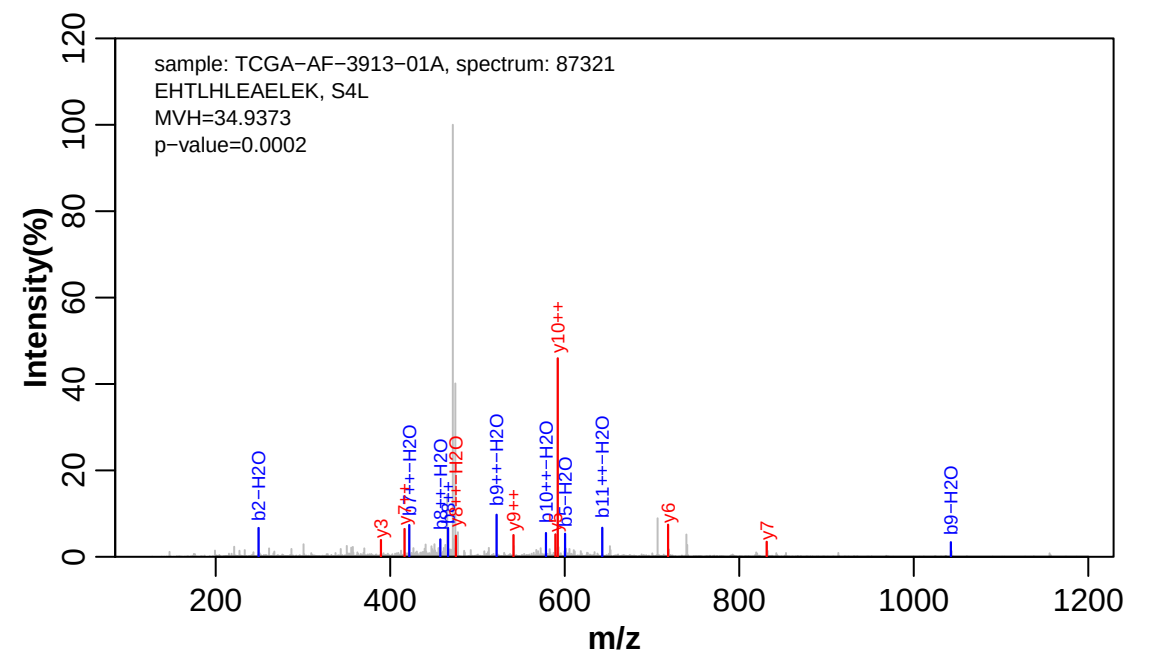

sample: TCGA−AF−3913−01A, spectrum: 68183
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=29.6353
p−value=0.0001
b10(M+3H)2+
b10(M+3H)2+−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

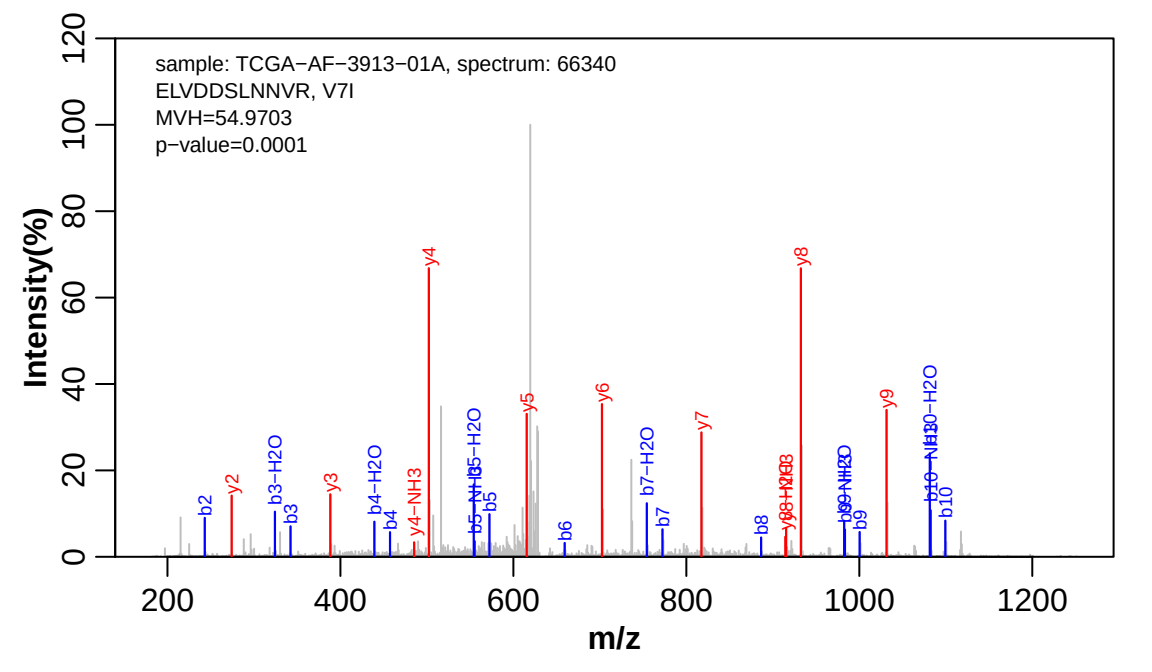

sample: TCGA−AF−3913−01A, spectrum: 80062
DYCVLLEGSGLALR, G3C
MVH=78.8510
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b3
y4
y5
b4
y6
b5
y7
y7−H2O
b6
b6−H2O
y8
b7
b7−H2O
y9
y9−H2O
b8
y10
b9
y10−H2O
b9−H2O
b10
b10−NH2O
y11
b11
b11−H2O
b12
b12−H2O
b13
b13−NH2O

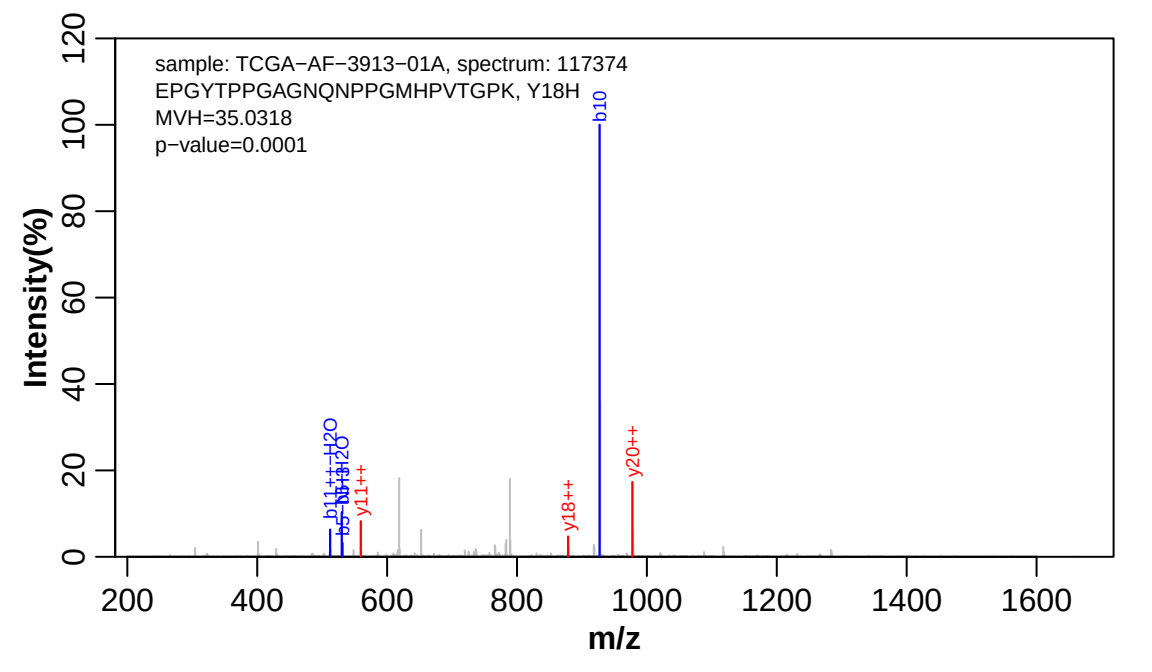

sample: TCGA−AF−3913−01A, spectrum: 132572
EAGFPPGVVNLLTGYGPTAGAALAQHMDVDK, V27M
MVH=21.3830
p−value=0.0001
y22++
y23++
y26++
y27++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

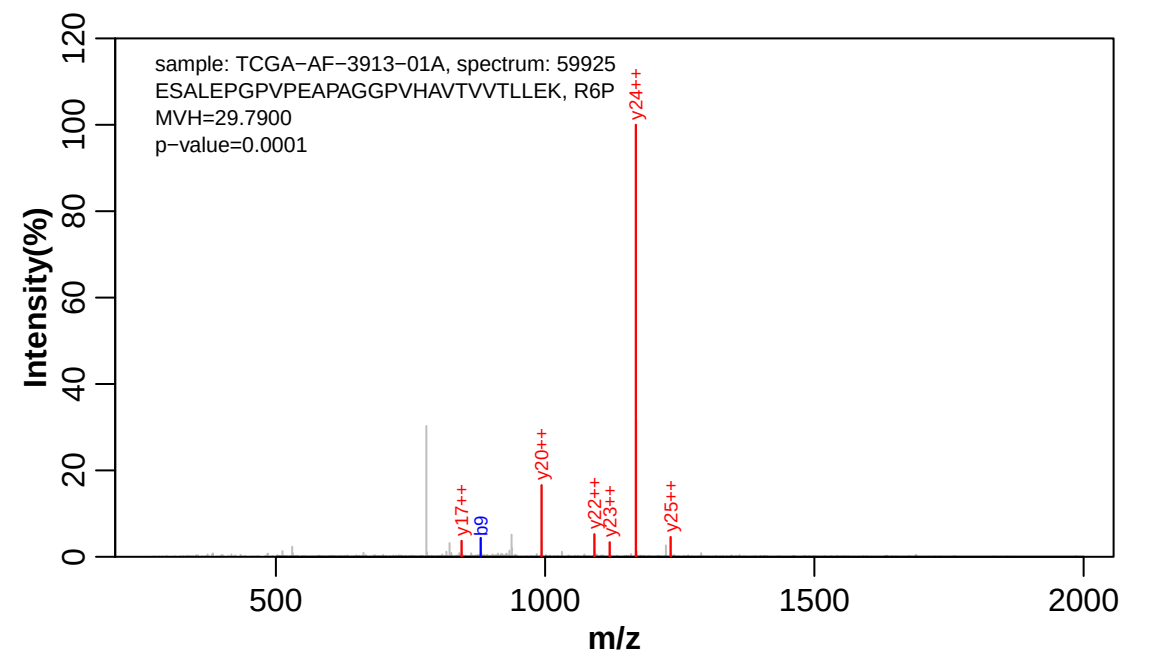

sample: TCGA−AF−3913−01A, spectrum: 784
EASQGSSASSAPQSVK, H13Q
MVH=33.4082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4−H2O
y5
b6−H2O
y6−H2O
b7−NH3−H2O
b7
y7
b8
y8
y9−H2O
b10
b11−H2O
y10
y11
y12
b13
b15−H2O

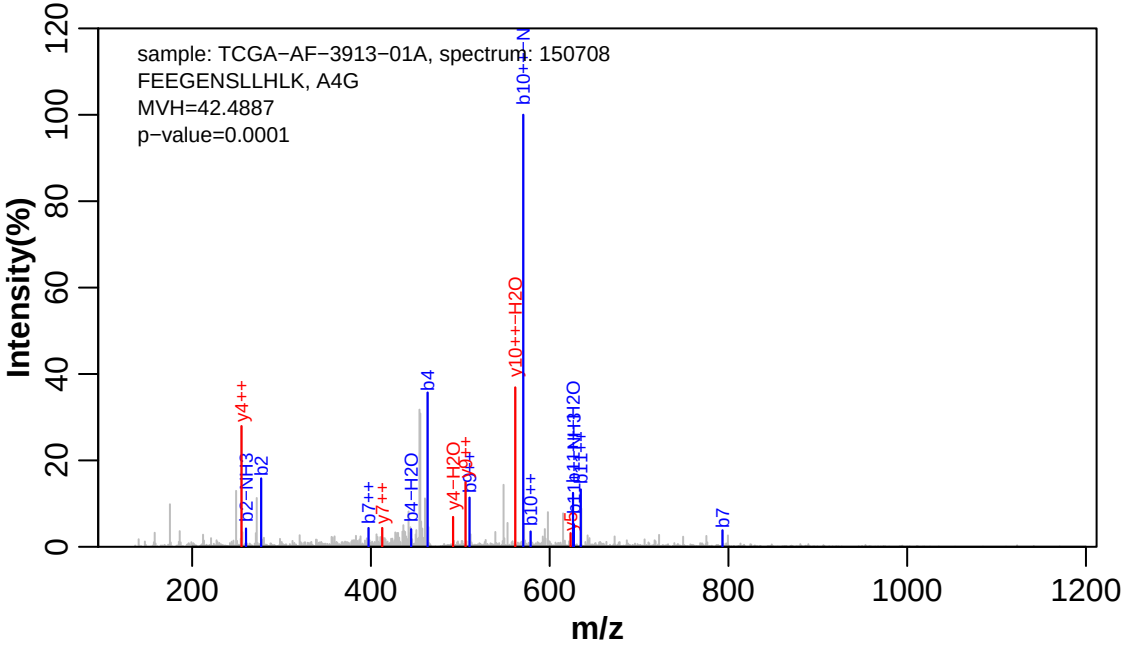

sample: TCGA−AF−3913−01A, spectrum: 100021
EELGHLQNDLTSLENDK, M10L
MVH=44.5278
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b9++−H2O
b5++
b10++
b11++−H2O
y7
y15++
y8
b13++−H2O
b10−H2O

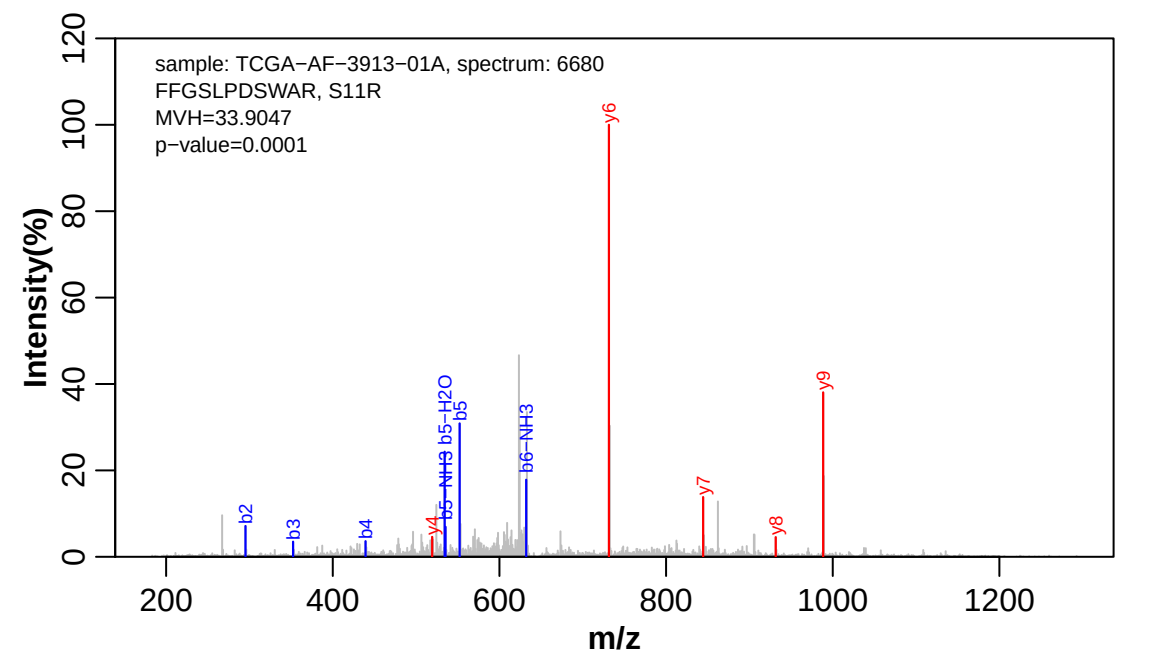

sample: TCGA−AF−3913−01A, spectrum: 87321
EHTLHLEAELEK, S4L
MVH=34.9373
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
y3
y7++−H2O
y7++
b8++−H2O
b8++
y8++−H2O
y8++
b9++−H2O
y9++
y10++
b10++−H2O
b10++
b5−H2O
b11++−H2O
y6
y7
b9−H2O

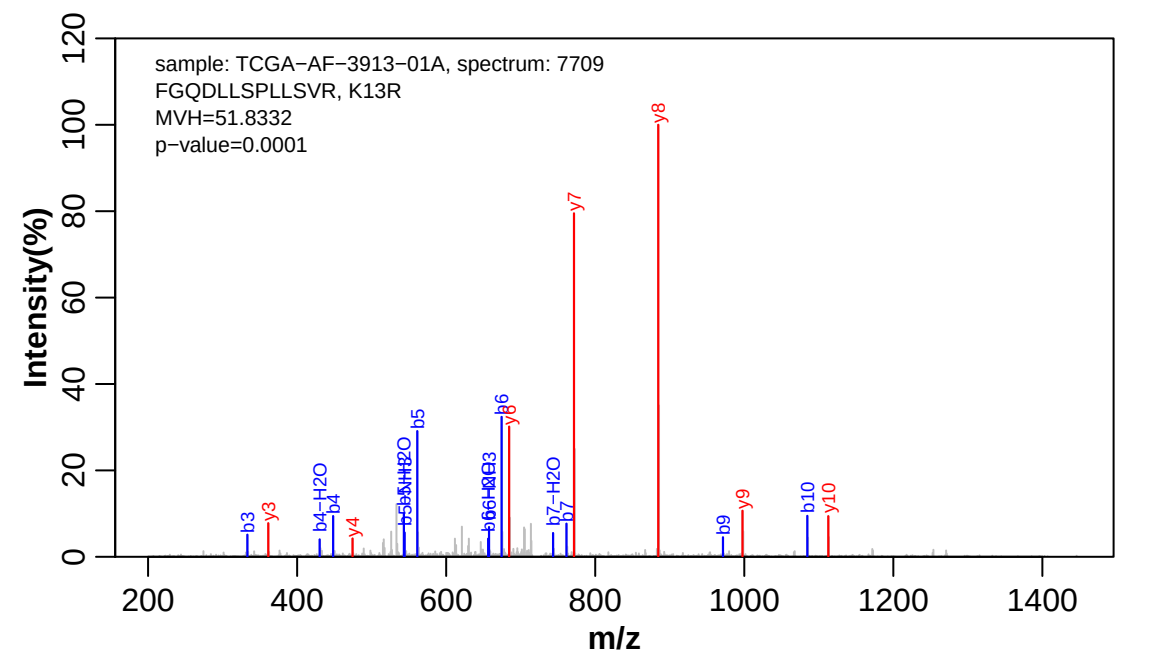

sample: TCGA−AF−3913−01A, spectrum: 66340
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
b8
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

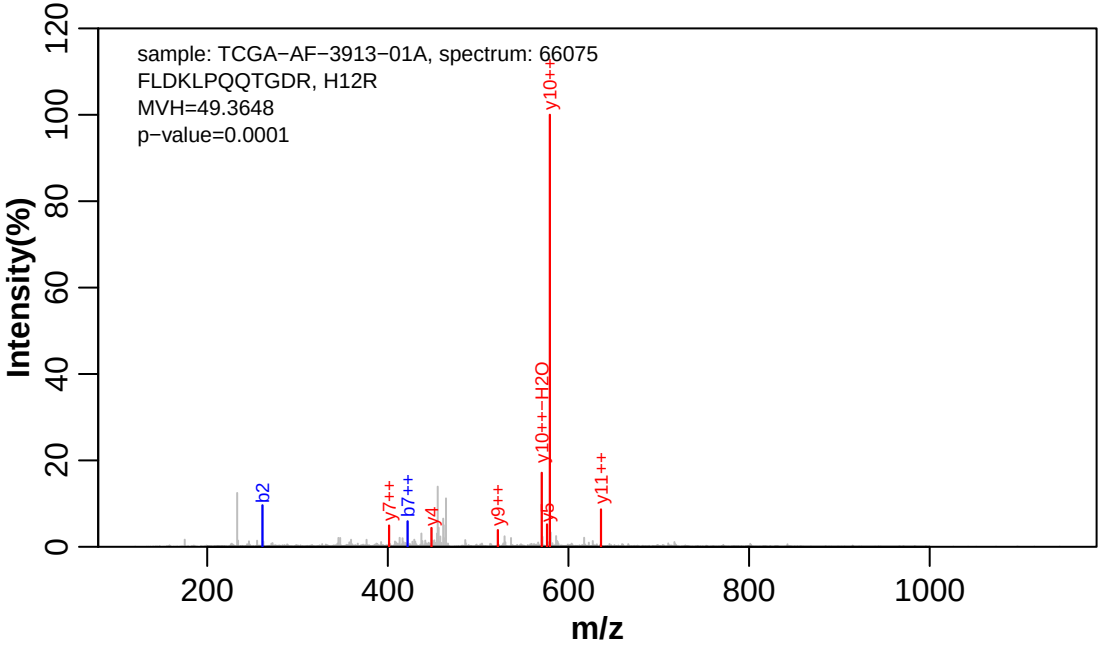

sample: TCGA−AF−3913−01A, spectrum: 117374
EPGYTPPGAGNQNPPGMHPVTGPK, Y18H
MVH=35.0318
p−value=0.0001
b10
y20++
y18++
y11++
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

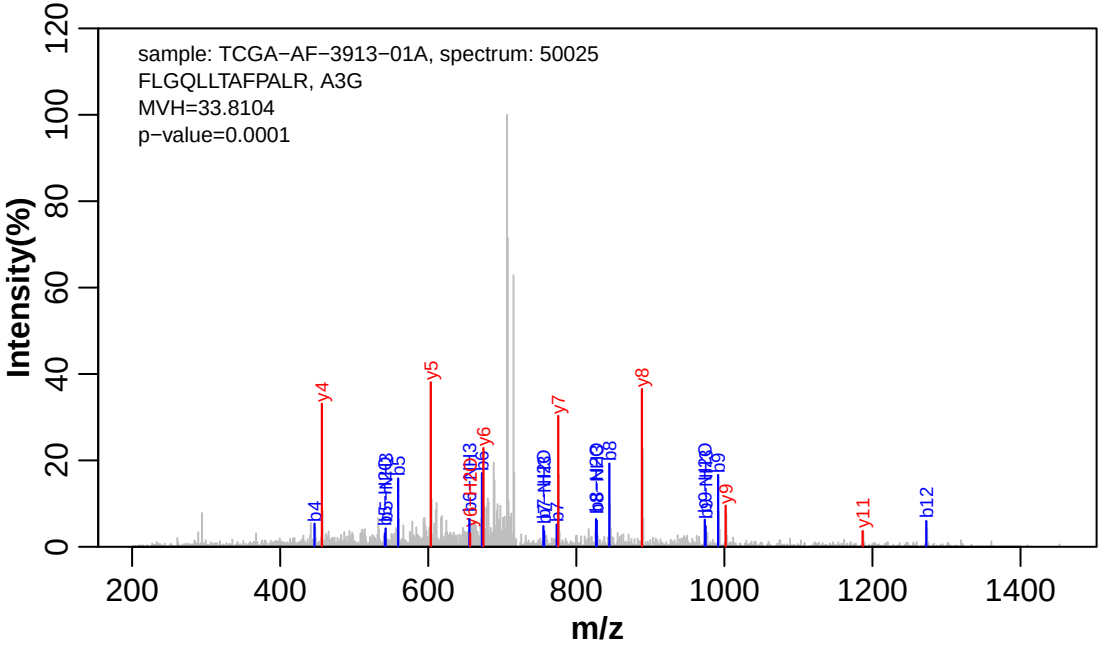

sample: TCGA−AF−3913−01A, spectrum: 59925
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=29.7900
p−value=0.0001
y24++
y20++
y17++
b9
y22++
y23++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

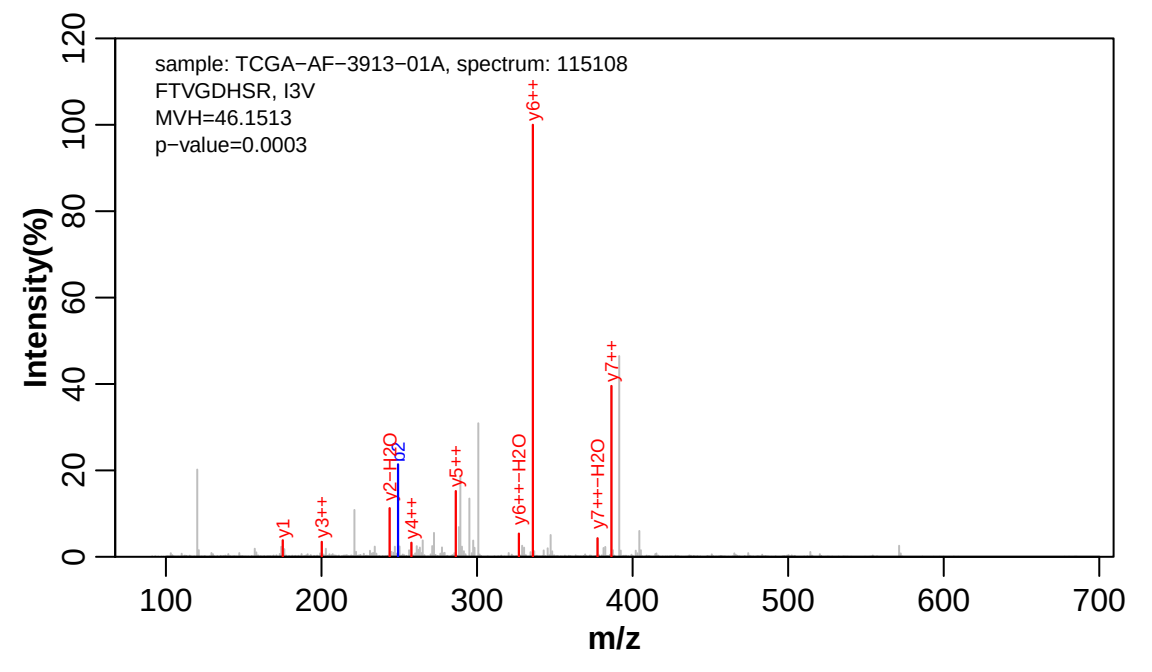

sample: TCGA−AF−3913−01A, spectrum: 150708
FEEGENSLLHLK, A4G
MVH=42.4887
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b10++−N
y10++−H2O
b4
y4++
b2
b2−NH3
b7++
y7++
b4−H2O
y4−H2O
b10++
b7

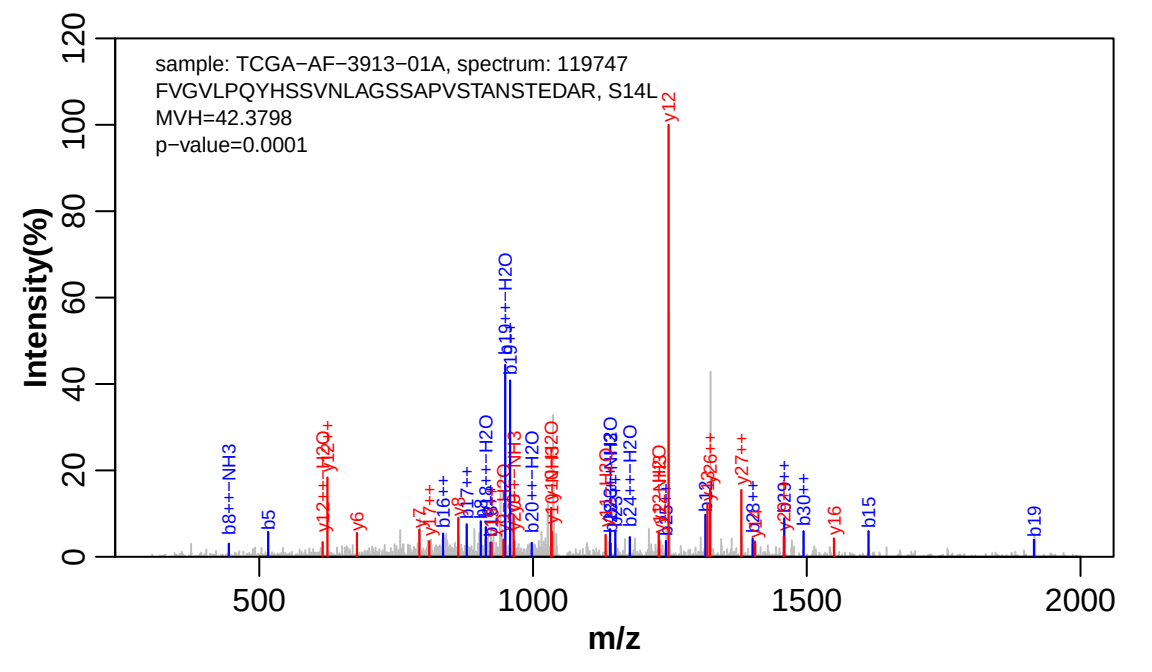

sample: TCGA−AF−3913−01A, spectrum: 6680
FFGSLPDSWAR, S11R
MVH=33.9047
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b3
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3

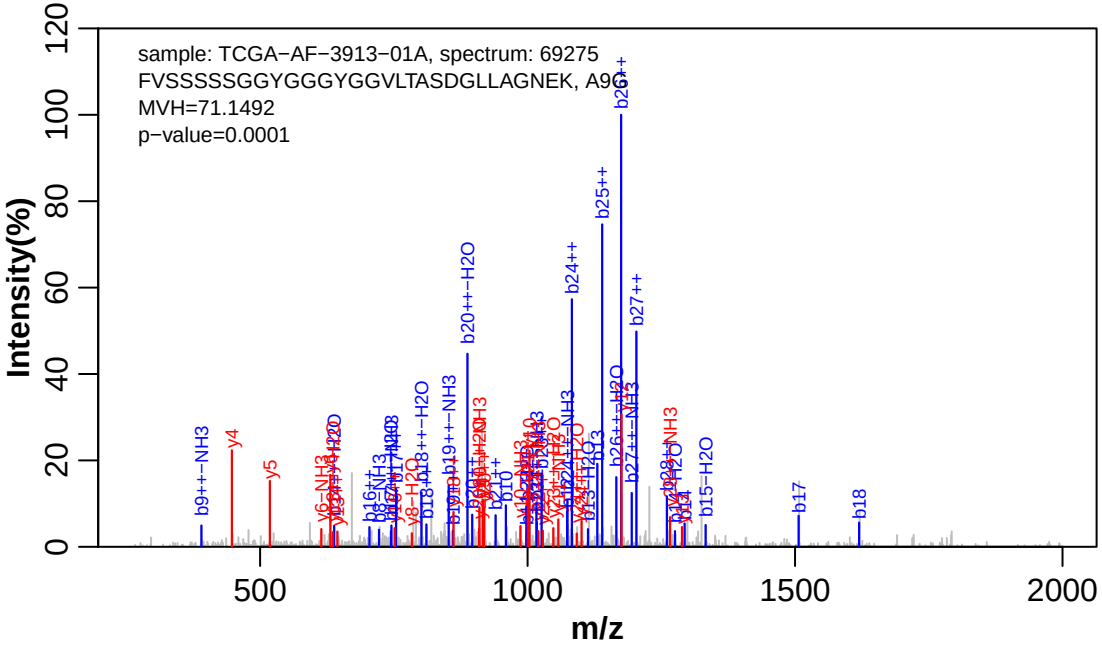

sample: TCGA−AF−3913−01A, spectrum: 7709
FGQDLLSPLLSVR, K13R
MVH=51.8332
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
b6
y8
b7−H2O
b7
y7
y8
b9
y9
b10
y10

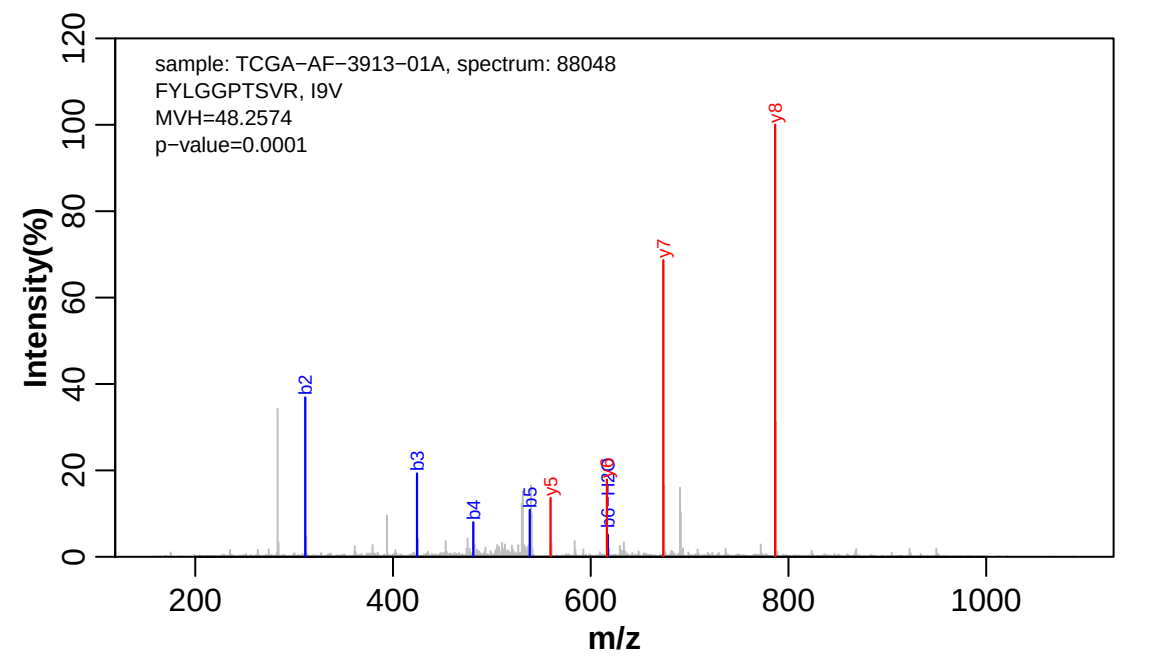

sample: TCGA−AF−3913−01A, spectrum: 66075
FLDKLPQQTGDR, H12R
MVH=49.3648
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y8
y10++
y11++

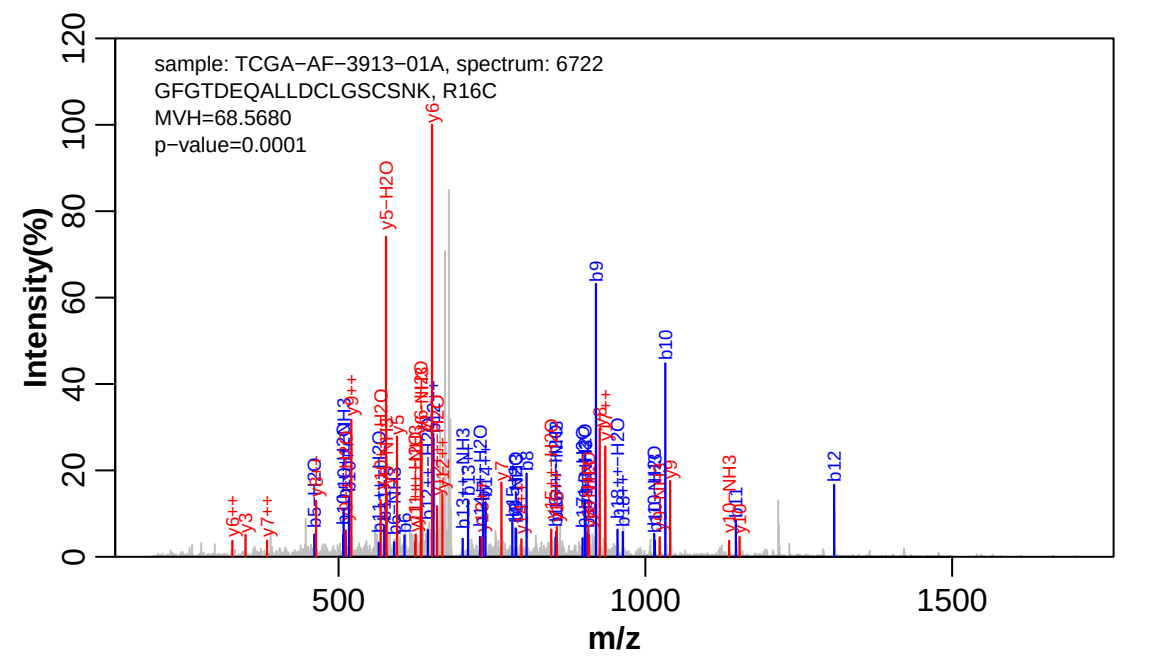

sample: TCGA−AF−3913−01A, spectrum: 50025
FLGQLLTAFPALR, A3G
MVH=33.8104
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y4
y5
y6
y7
y8
y9
y11
b4
b5
b8
b9
b12

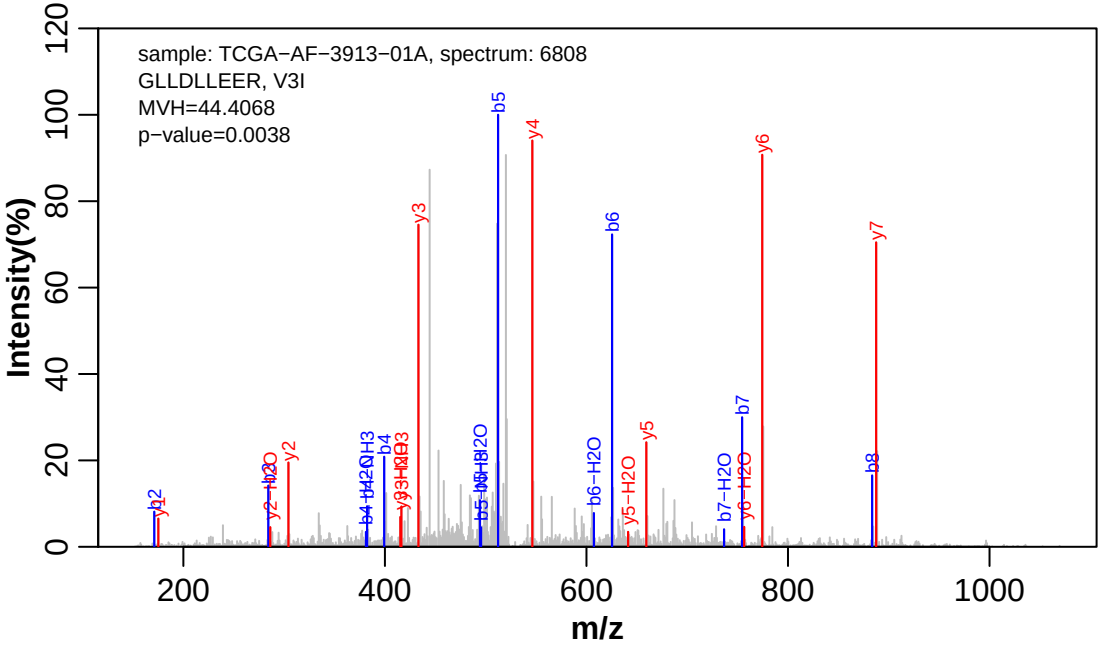

sample: TCGA−AF−3913−01A, spectrum: 115108
FTVGDHSR, I3V
MVH=46.1513
p−value=0.0003
Intensity(%)
m/z
y1
y3++
y2−H2O
b2
y4++
y5++
y6++−H2O
y6++
y7++−H2O
y7++

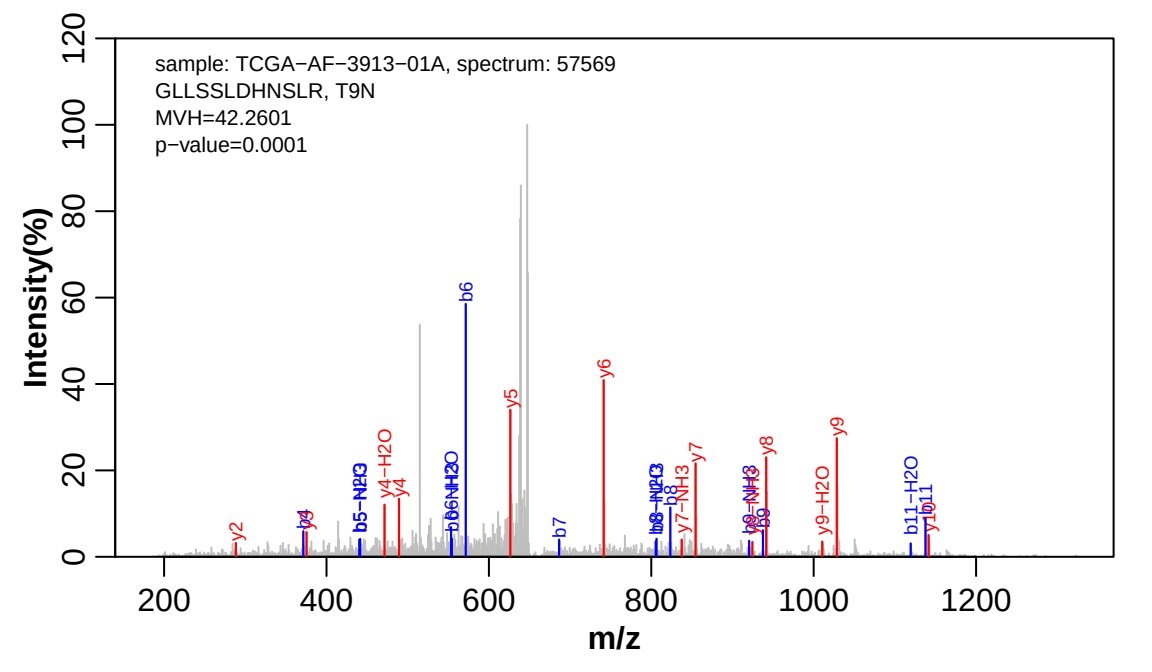

sample: TCGA−AF−3913−01A, spectrum: 119747
FVGVLPQYHSSVNLAGSSAPVSTANSTEDAR, S14L
MVH=42.3798
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
b19++−H2O
b8++−NH3
b5
y12++−H2O
y12++
y6
y7++
b16++
y8
b17++
b8++−H2O
b20++−NH3
b20++−H2O
y10+−NH3
y10+−H2O
b24++−H2O
b26++
y27++
y28++
y29++
b30++
y16
b15
b19

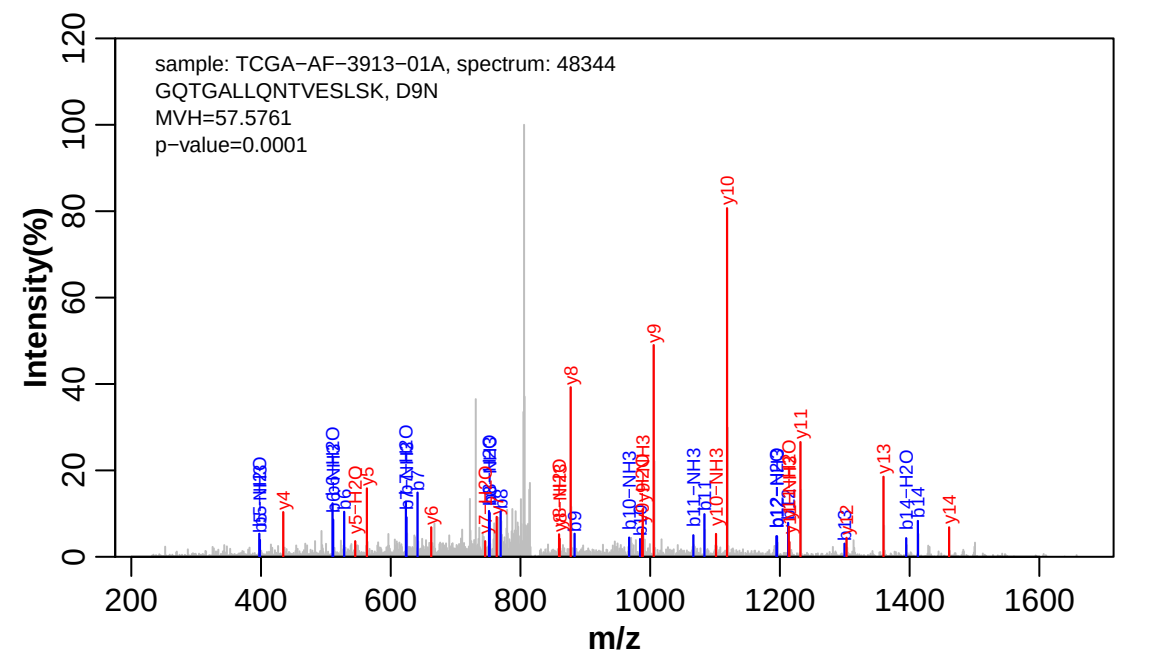

sample: TCGA−AF−3913−01A, spectrum: 69275
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=71.1492
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
b18
b17
b15−H2O
b25++
b26++
b27++
b24++
b20++−H2O

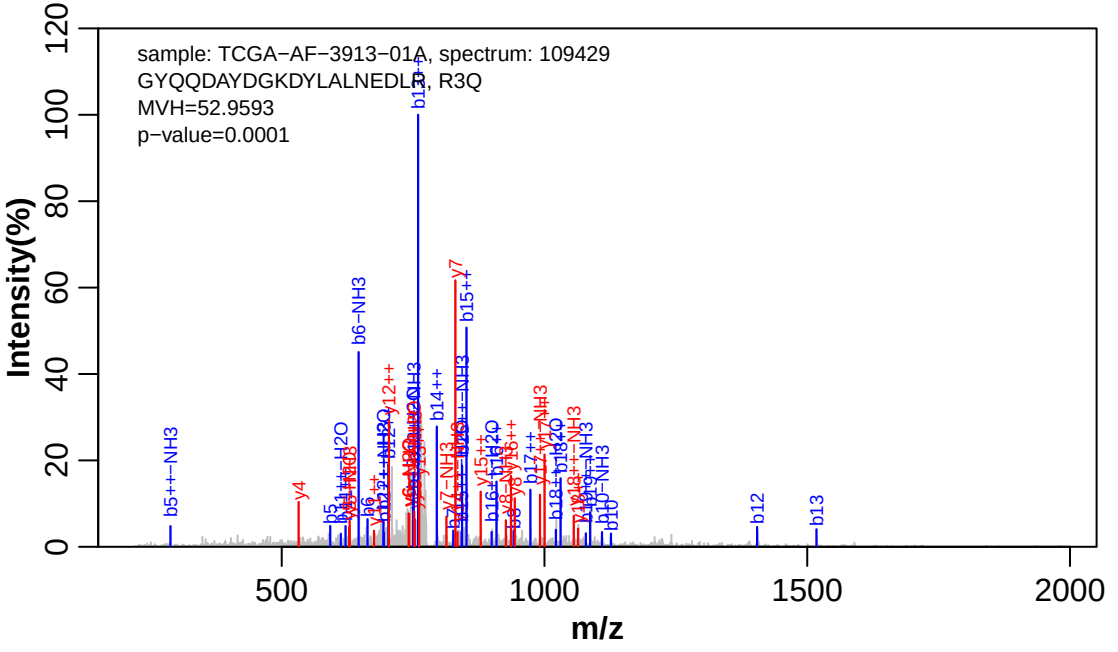

sample: TCGA−AF−3913−01A, spectrum: 88048
FYLGGPTSVR, I9V
MVH=48.2574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

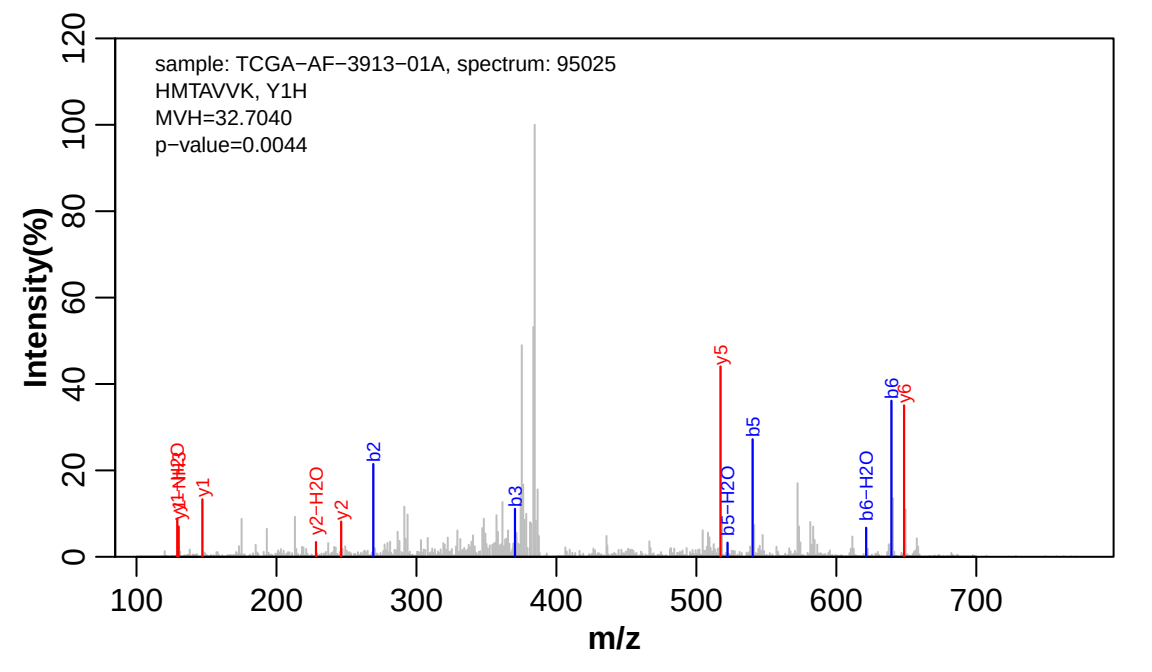

sample: TCGA−AF−3913−01A, spectrum: 6722
GFGTDEQALLDCLGSCSNK, R16C
MVH=68.5680
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y6++
y3
y7++
y5
y3++
b13−NH3
b13
y7
y8
y8++
y9
y10−NH3
y10
y11

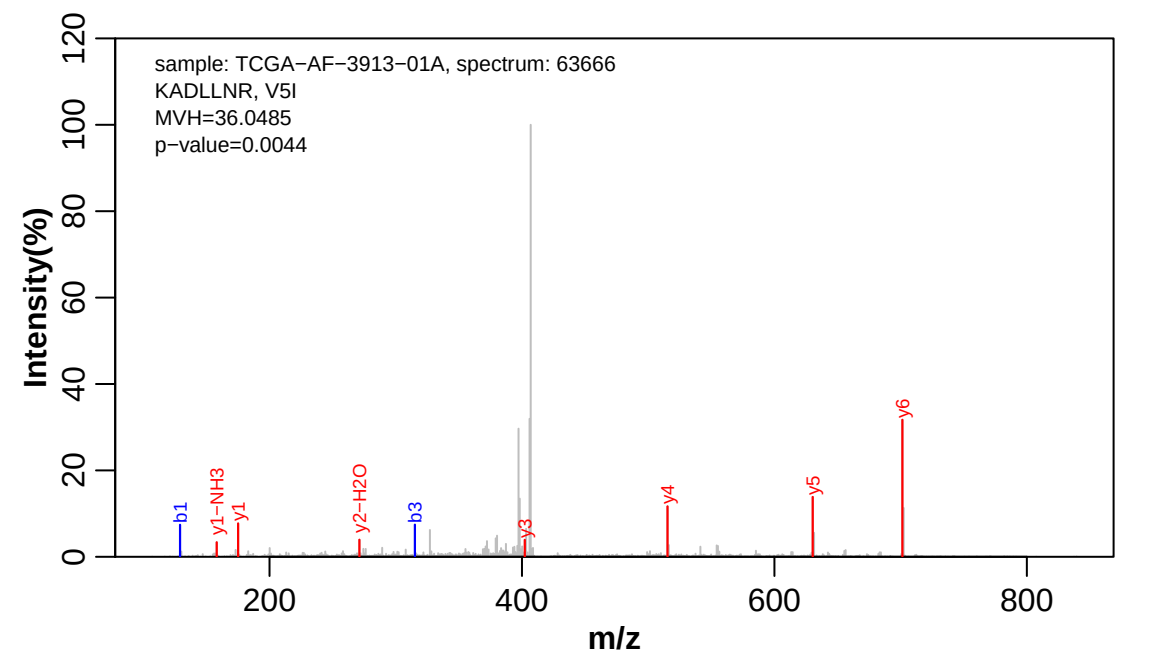

sample: TCGA−AF−3913−01A, spectrum: 6808
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y6
y3
b6
y7
y5
b7
b8
y2
b4
y2−H2O
b6−H2O
y5−H2O
b7−H2O
y6−H2O
b5−H2O
y2
b2

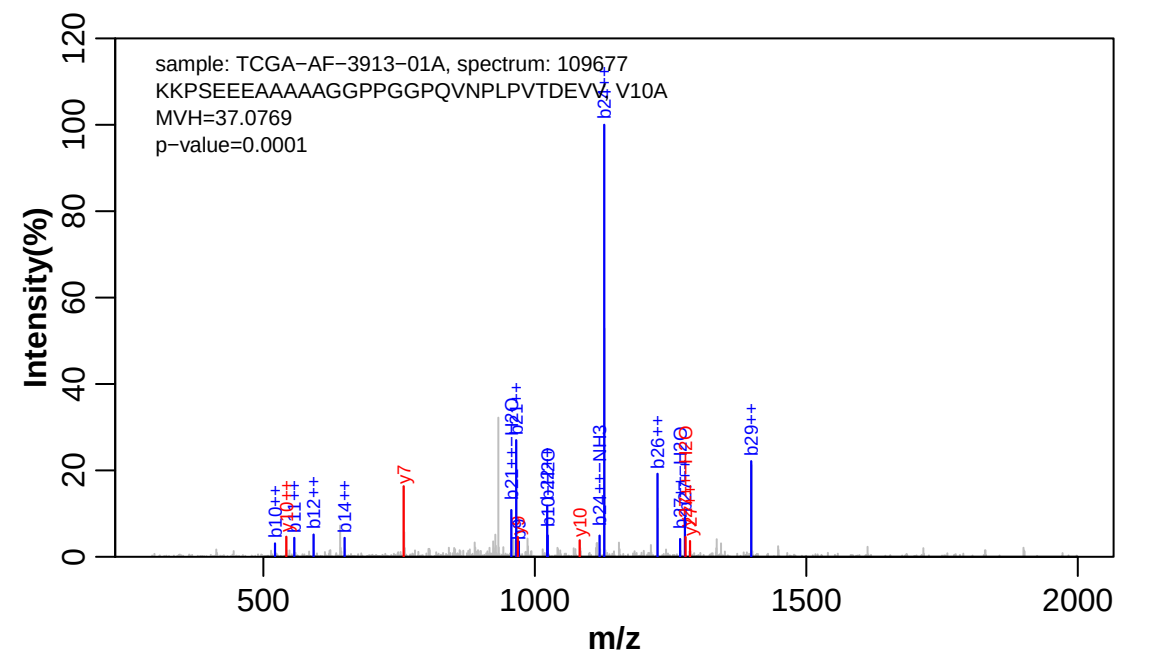

sample: TCGA−AF−3913−01A, spectrum: 57569
GLLSSLDHNSLR, T9N
MVH=42.2601
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b4
y3
b5−NH3
b5−H2O
y4−H2O
y4
b6−NH3
b6−H2O
b6
y5
b7
y6
b8−NH3
b8−H2O
b8
y7−NH3
y7
y8−NH3
y8−H2O
y8
y9
y9−H2O
b11−H2O
y10
b11

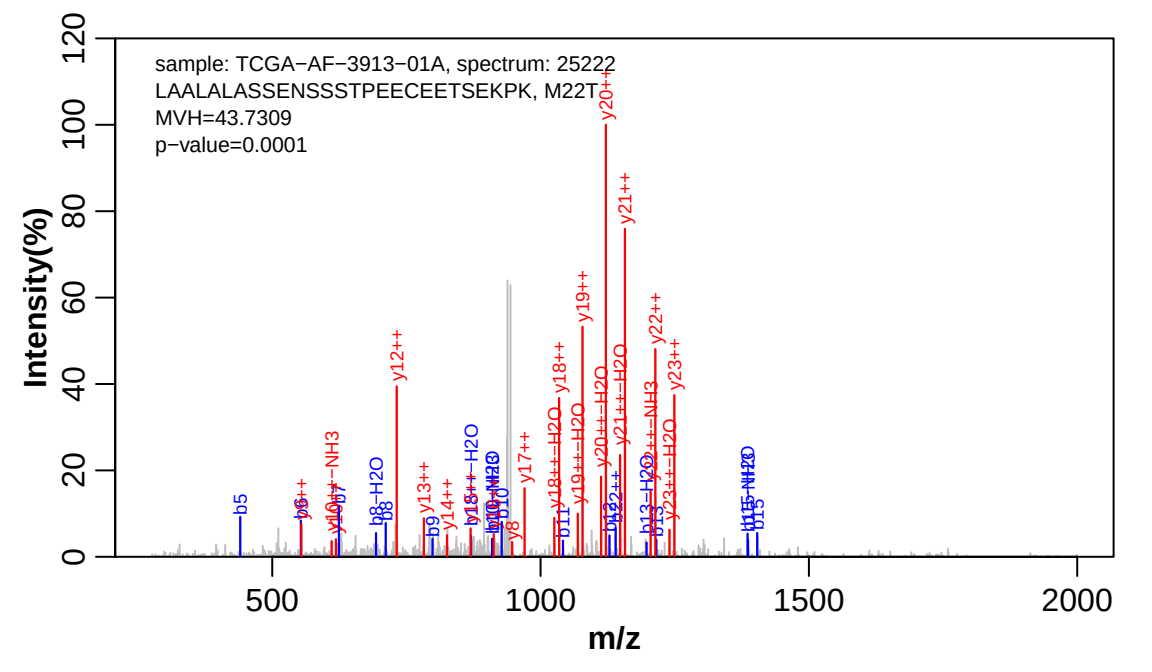

sample: TCGA−AF−3913−01A, spectrum: 48344
GQTGALLQNTVESLSK, D9N
MVH=57.5761
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y4
y5
y6
b14−H2O
b11−NH3
b10−NH3

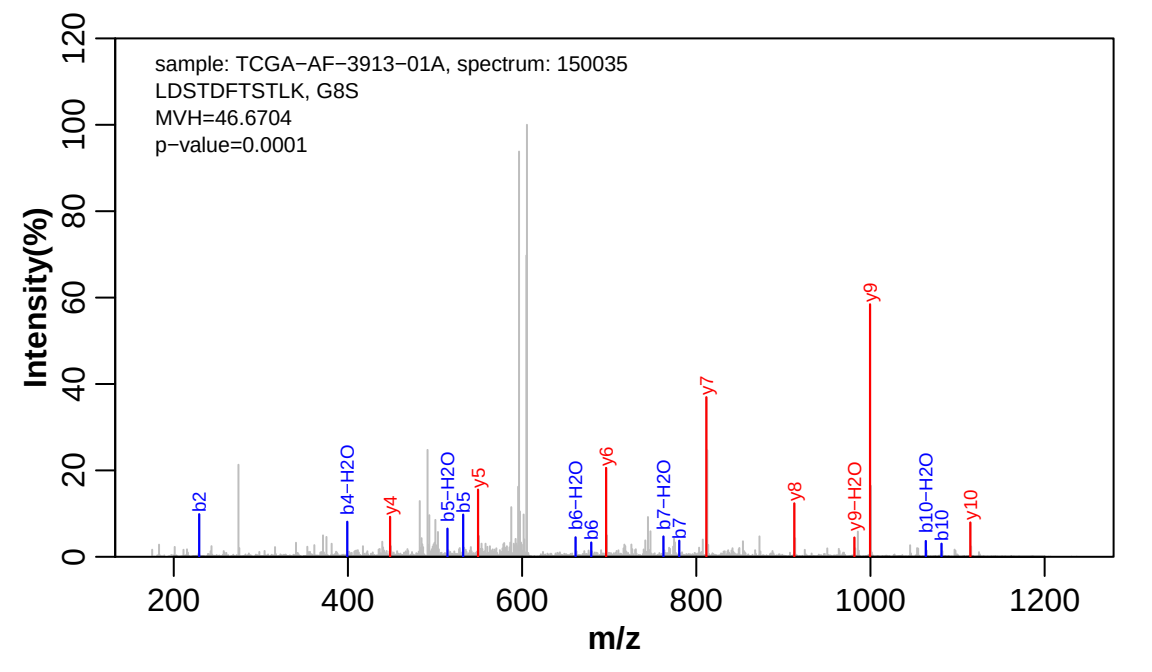

sample: TCGA−AF−3913−01A, spectrum: 109429
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=52.9593
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5++−NH3
y4
b6−NH3
b12++
b14++
y7
b15++
b12
b13

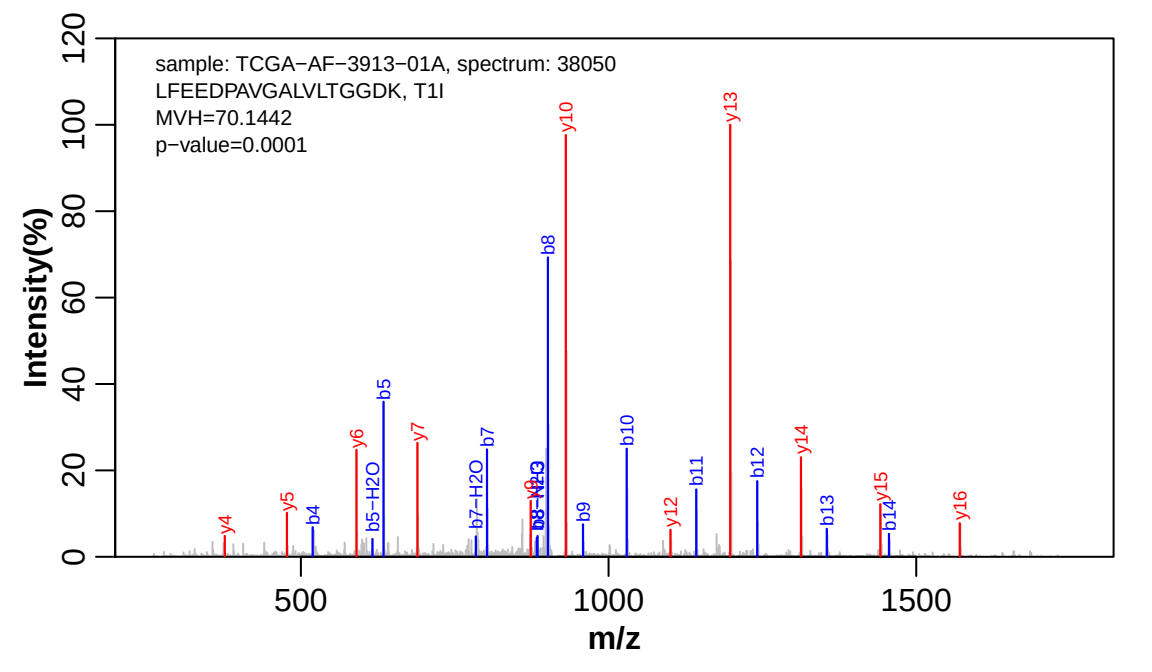

sample: TCGA−AF−3913−01A, spectrum: 95025
HMTAVVK, Y1H
MVH=32.7040
p−value=0.0044
Intensity(%)
m/z
y1
y2−H2O
y2
b2
b3
y5
b5−H2O
b5
b6−H2O
b6
y6

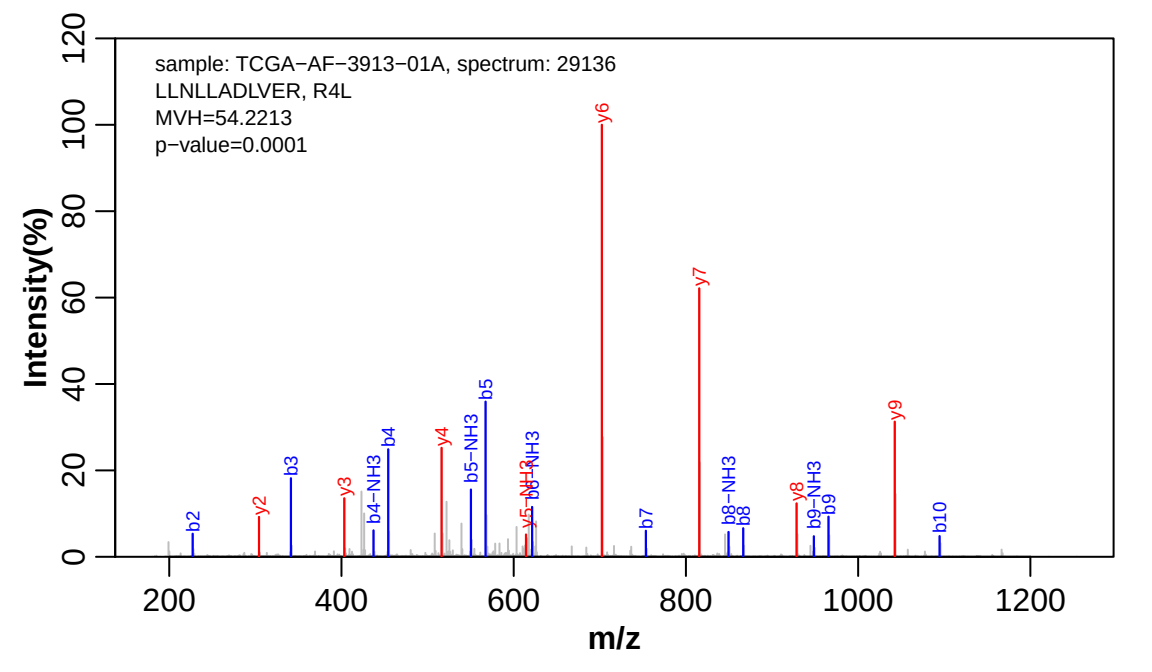

sample: TCGA−AF−3913−01A, spectrum: 63666
KADLLNR, V5I
MVH=36.0485
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1−NH3
y1
y2−H2O
b3
y3
y4
y5
y6

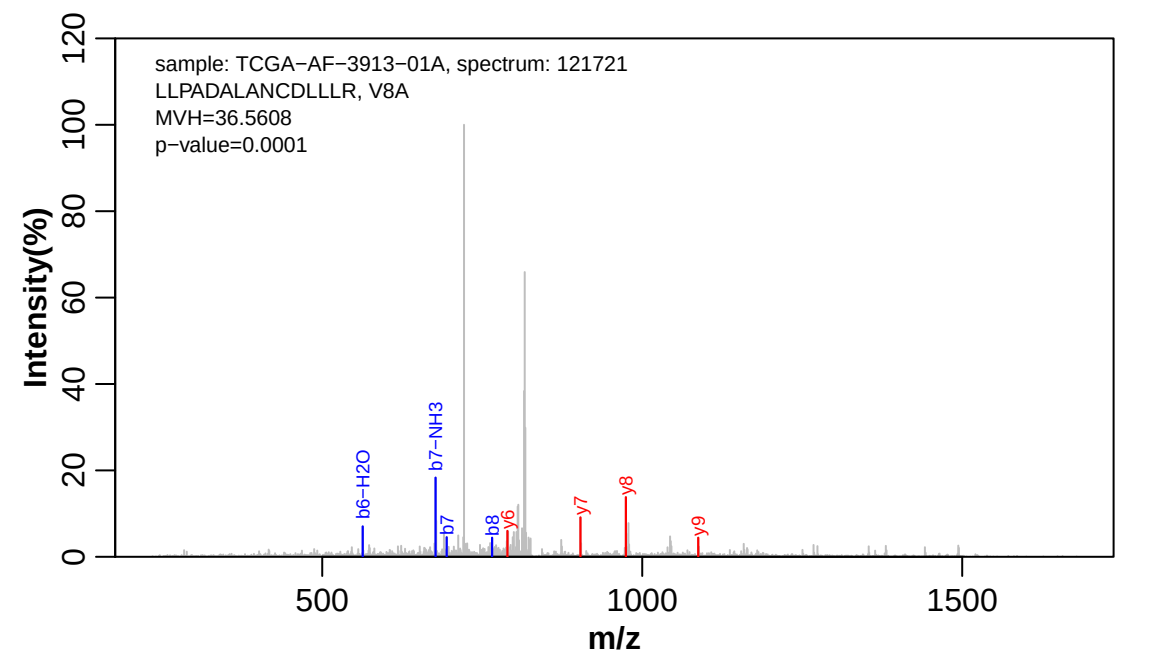

sample: TCGA−AF−3913−01A, spectrum: 109677
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV-V10A
MVH=37.0769
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b10++
b11++
b12++
b14++
y7
b21++-H2O
b21++
b24++-NH3
y10
b24++
b26++
b29++

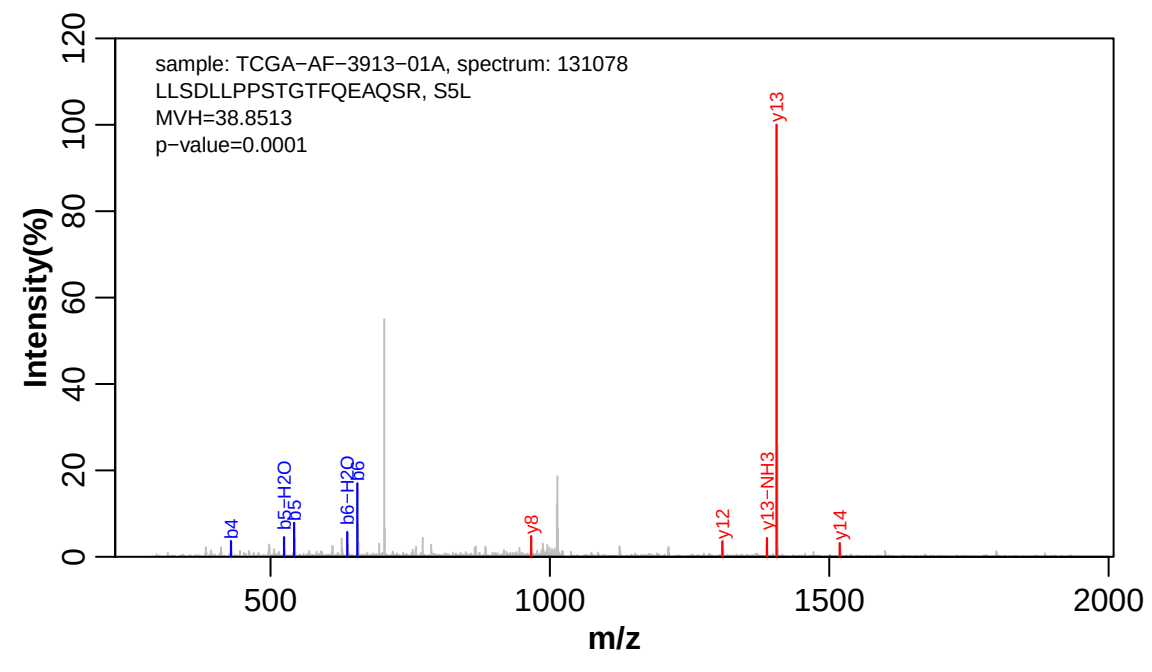

sample: TCGA−AF−3913−01A, spectrum: 25222
LAALALASSENSSSTPEECEETSEKPK, M22T
MVH=43.7309
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y6++
y10++−NH3
y9++
b8−H2O
b8
y12++
b9
y13++
y14++
b18++−H2O
b10
y8
y17++
y18++−H2O
y18++
b11
y19++−H2O
y19++
y20++−H2O
b12++
y21++−H2O
y21++
b13−H2O
b13
y22++−NH3
y22++
y23++−H2O
y23++
b15−H2O
b15

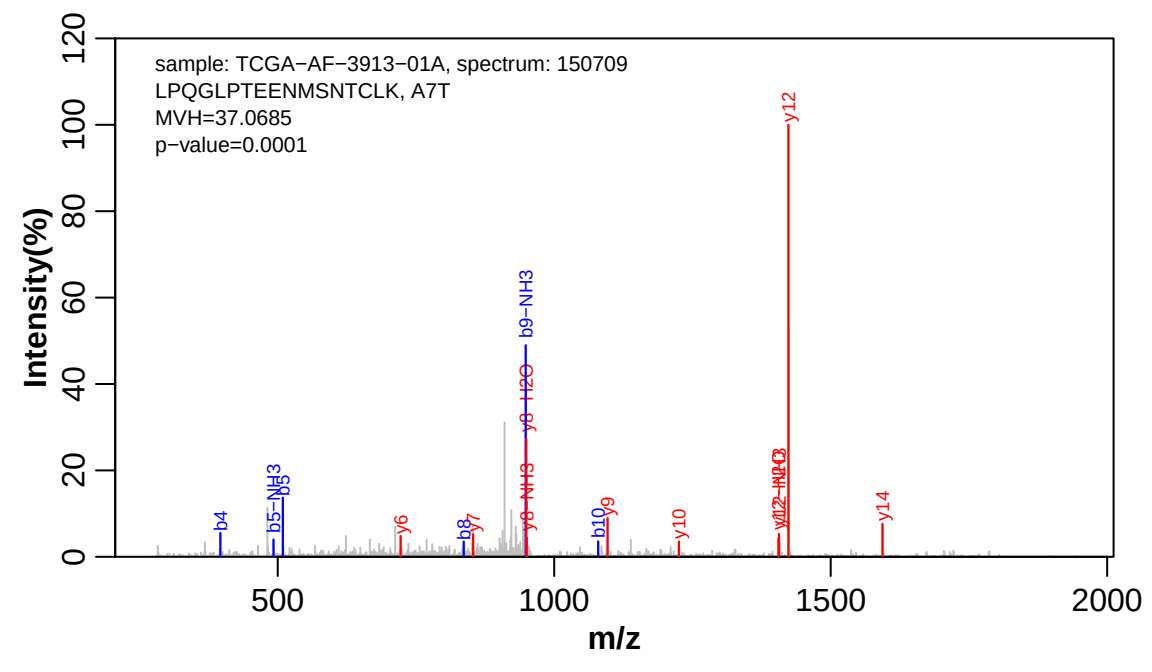

sample: TCGA−AF−3913−01A, spectrum: 150035
LDSTDFTSTLK, G8S
MVH=46.6704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

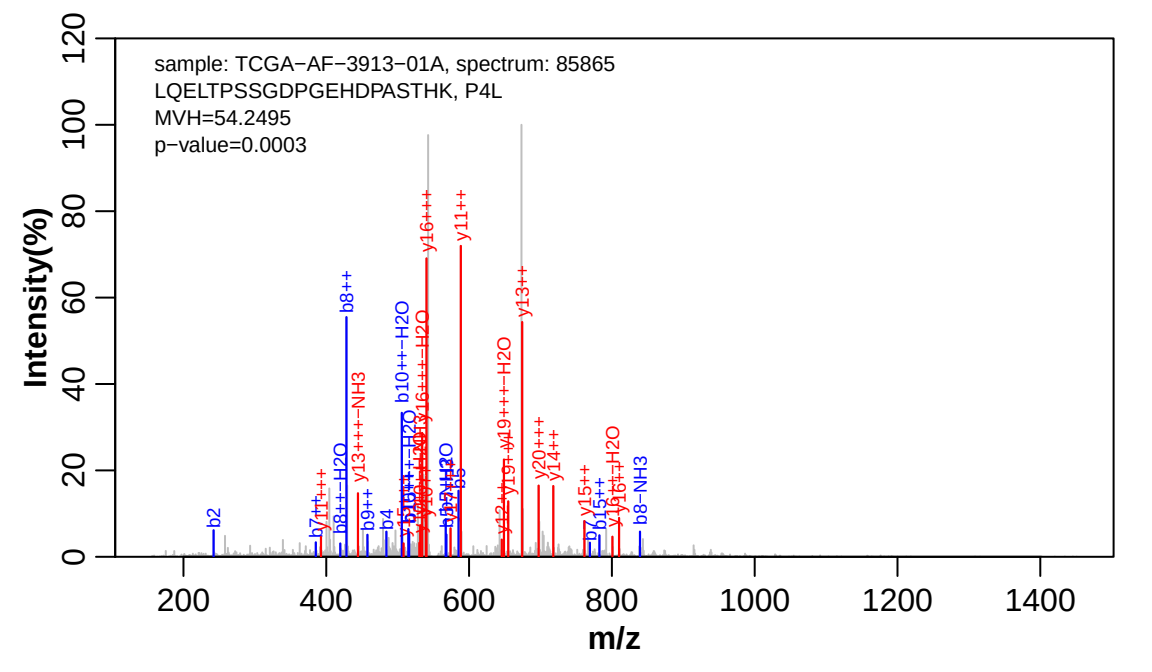

sample: TCGA−AF−3913−01A, spectrum: 38050
LFEEDPAVGALVLTGGDK, T1I
MVH=70.1442
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y8
b8−NH3
b8
y9
b9
y10
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

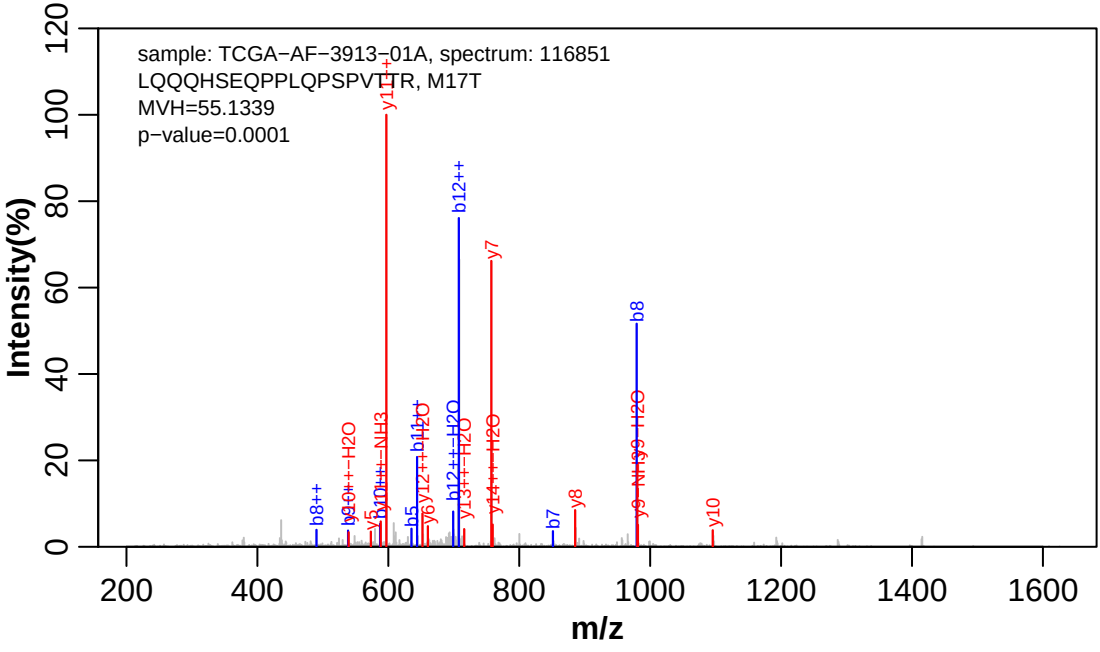

sample: TCGA−AF−3913−01A, spectrum: 29136
LLNLLADLVER, R4L
MVH=54.2213
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

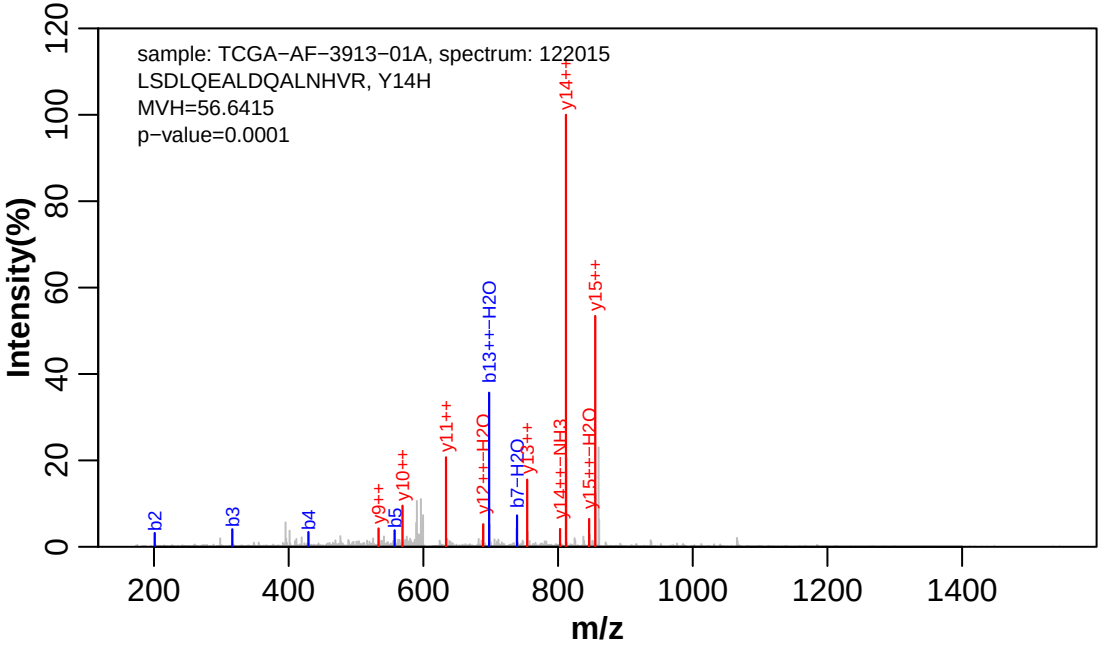

sample: TCGA−AF−3913−01A, spectrum: 121721
LLPADALANCDLLLR, V8A
MVH=36.5608
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b6−H2O
b7−NH3
b7
b8
y6
y7
y8
y9

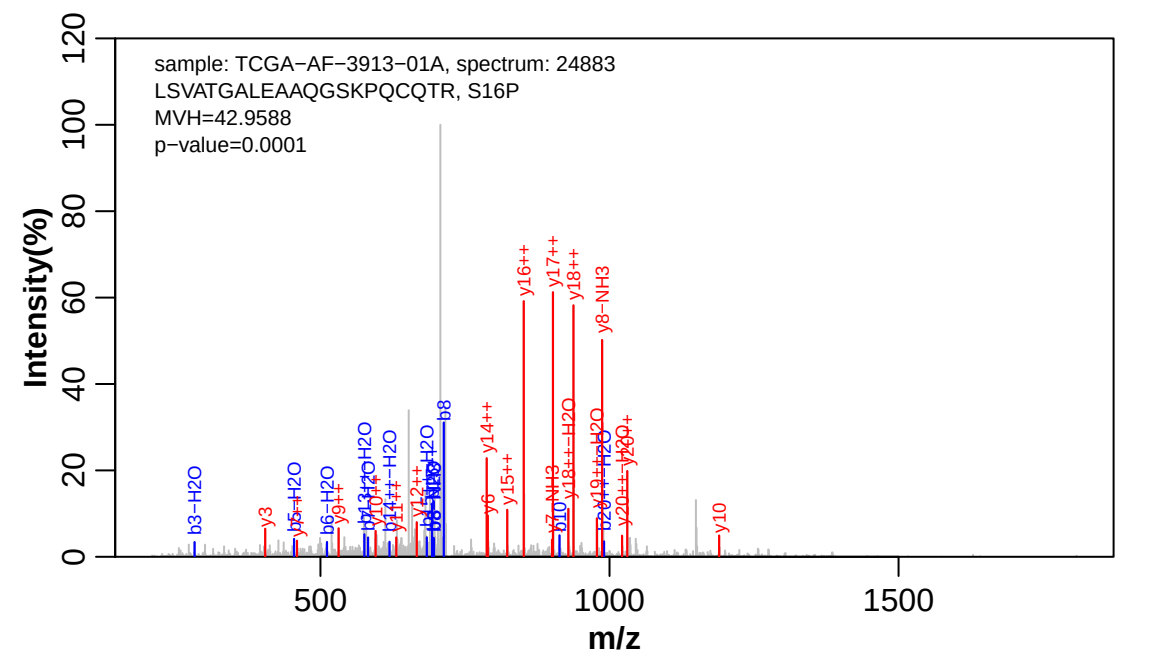

sample: TCGA−AF−3913−01A, spectrum: 131078
LLSDLLPPSTGTFQEAQSR, S5L
MVH=38.8513
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4
b5−H2O
b5
b6−H2O
b6
y8
y12
y13−NH3
y13
y14

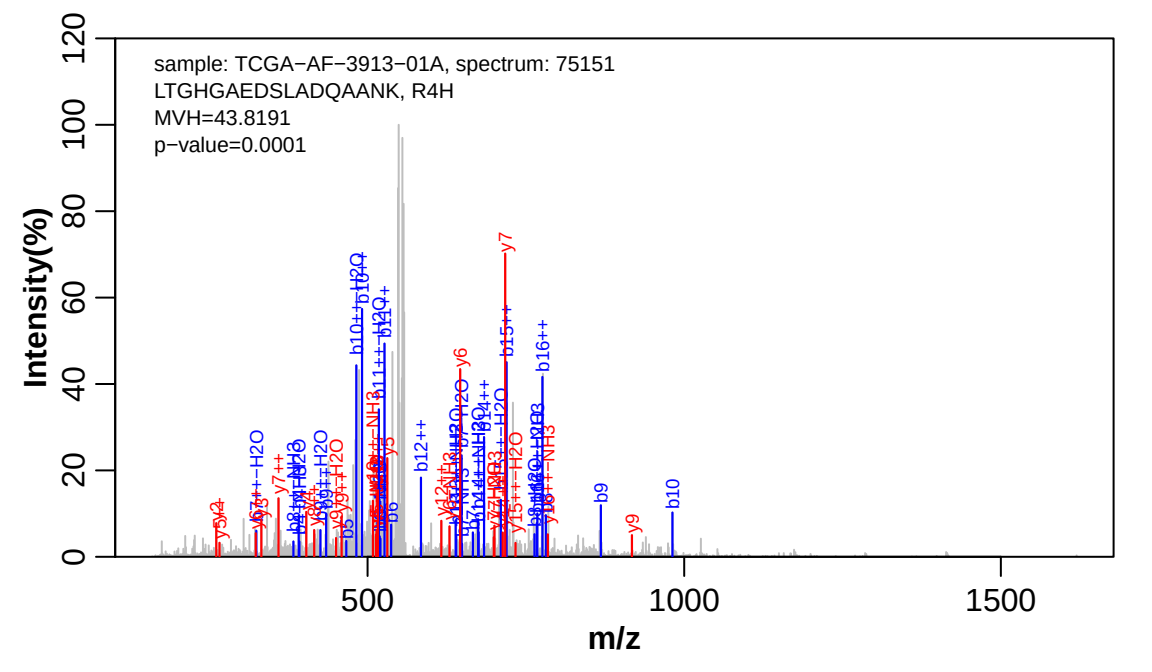

sample: TCGA−AF−3913−01A, spectrum: 150709
LPQGLPTEENMSNTCLK, A7T
MVH=37.0685
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b4
b5−NH3
b5
y6
b8
y7
b9−NH3
y8−H2O
y8−NH3
b10
y9
y10
y12
y12−H2O
y12−NH3
y14

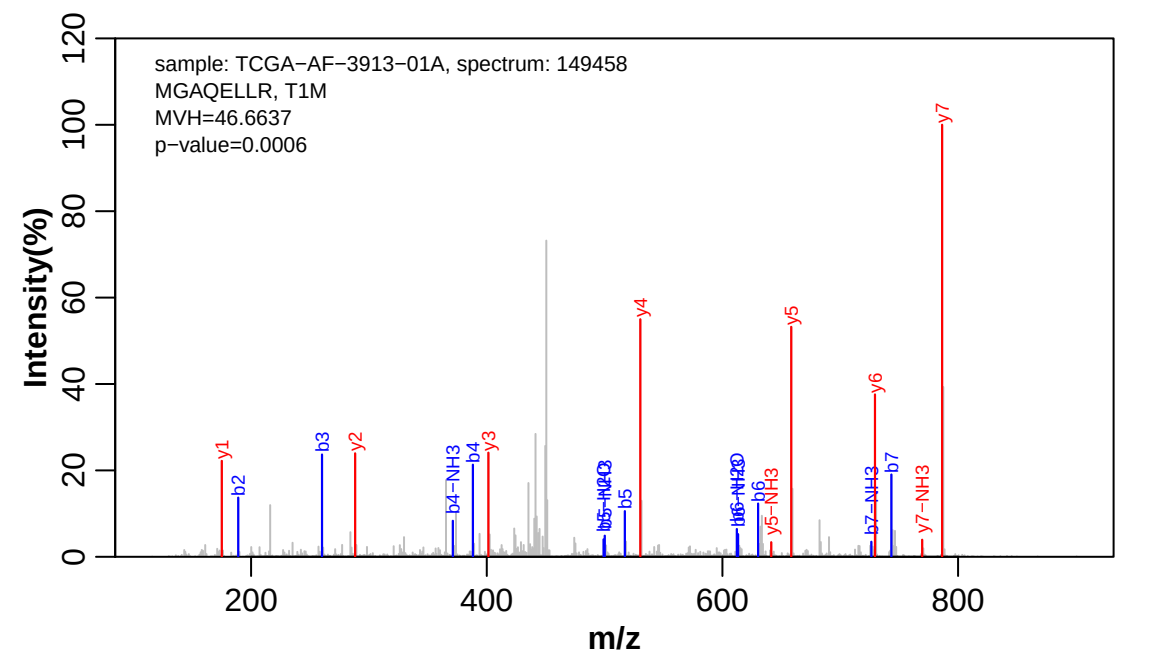

sample: TCGA−AF−3913−01A, spectrum: 85865
LQELTPSSGDPGEHDPASTHK, P4L
MVH=54.2495
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b7++
y11++
b8++−H2O
b8++−NH3
y13+++−NH3
b9++
b4
b10++−H2O
y16+++
y11++
y13++
y12++
y19++
y19+++−H2O
y20+++
y14++
b7
y15++
b15++
y16++−H2O
b8−NH3

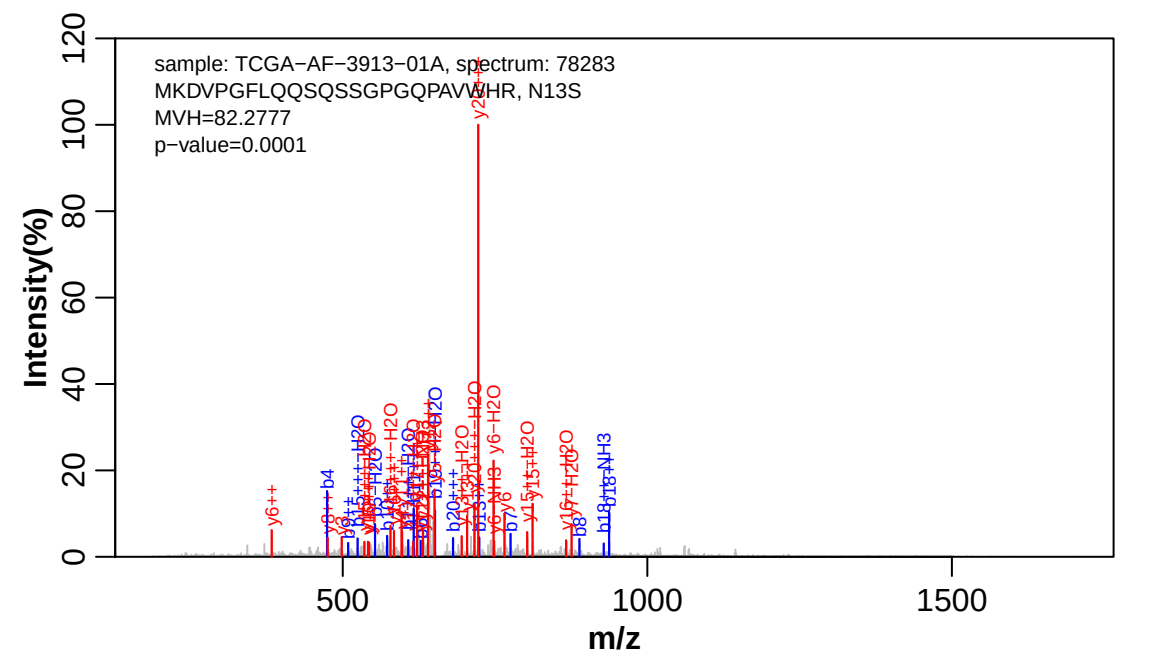

sample: TCGA−AF−3913−01A, spectrum: 116851
LQQQHSEQPPLQPSPVTTR, M17T
MVH=55.1339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y11++
b12++
y7
b8
b8++
b10++−H2O
y5
b10++−NH3
b5
b11++
y6
y12++
b12++−H2O
y13++−H2O
y14++−H2O
b7
y8
y9−NH3
y9−H2O
y10

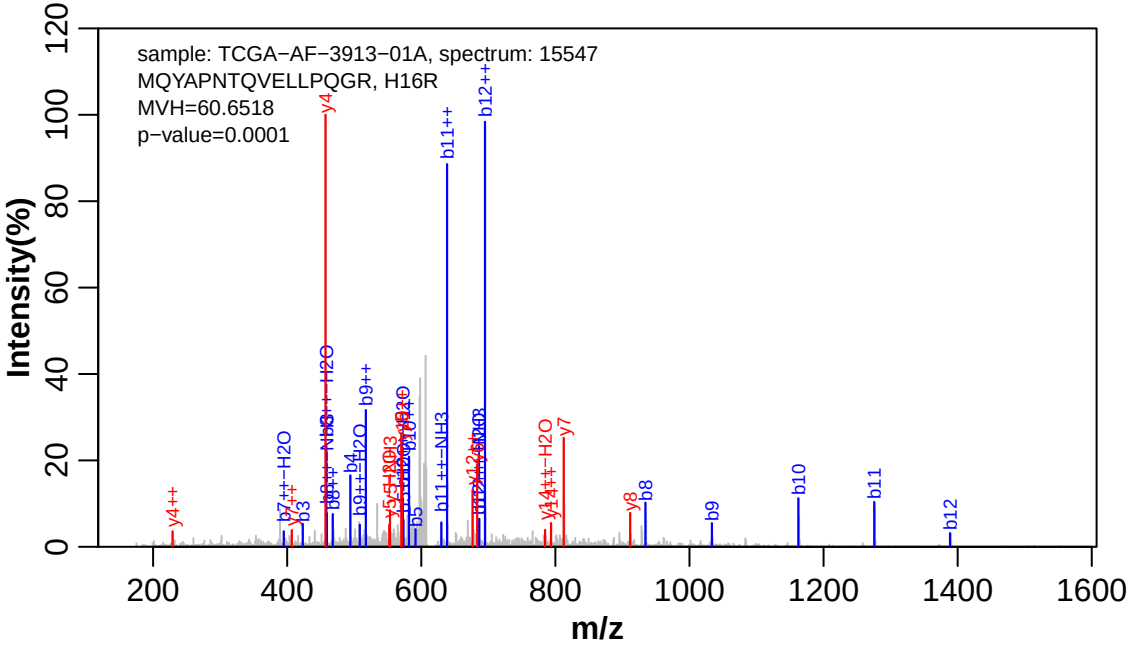

sample: TCGA−AF−3913−01A, spectrum: 122015
LSDLQEALDQALNHVR, Y14H
MVH=56.6415
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
b4
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
b7−H2O
y13++
y14++−NH3
y14++
y15++−H2O
y15++

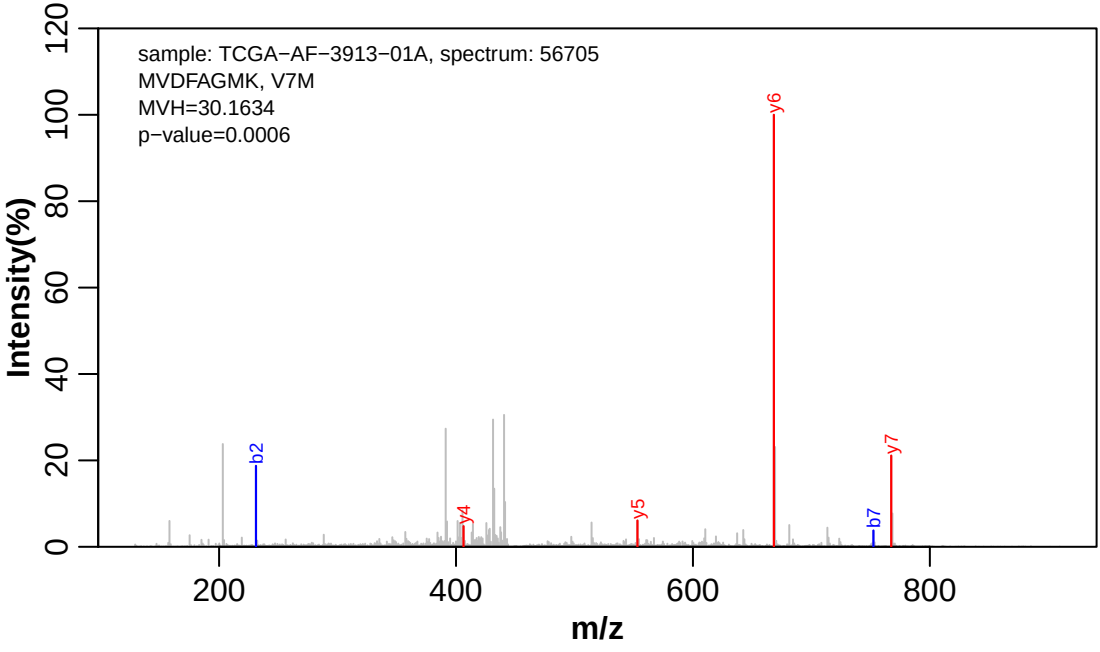

sample: TCGA−AF−3913−01A, spectrum: 24883
LSVATGALEAAQGSKPQCQTR, S16P
MVH=42.9588
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y5−H2O
b6−H2O
y9++
b8
y14++
y15++
y16++
y17++
y18++
y8−NH3
y10

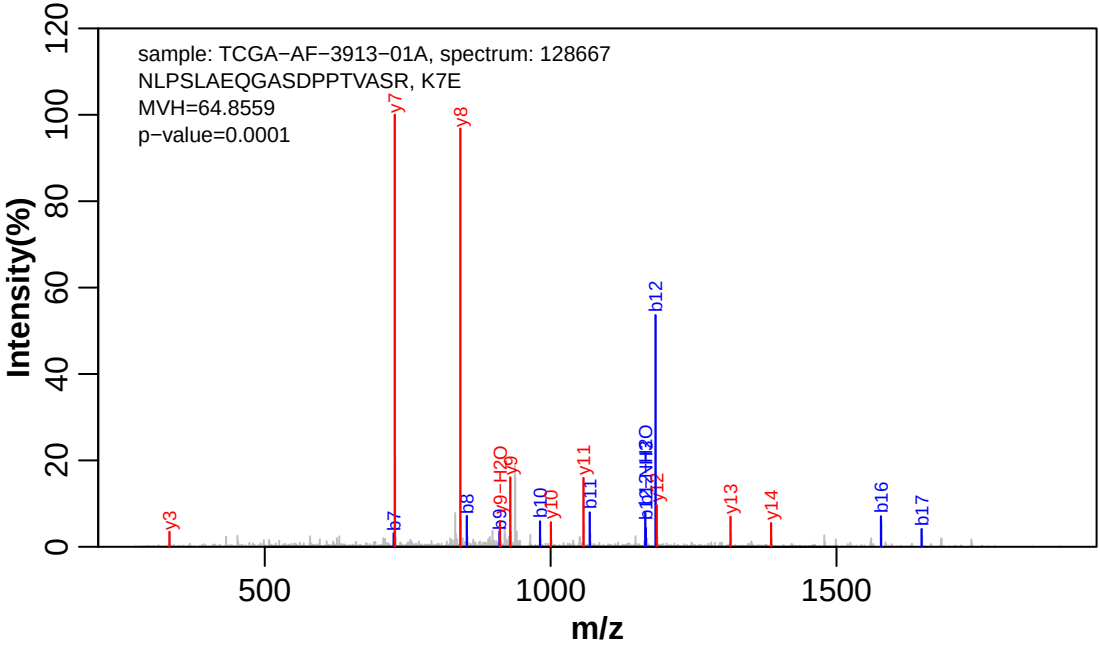

sample: TCGA−AF−3913−01A, spectrum: 75151
LTGHGAEDSLADQAANK, R4H
MVH=43.8191
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b12++
y7
b15++
b16++
y6
b9
y9
b10

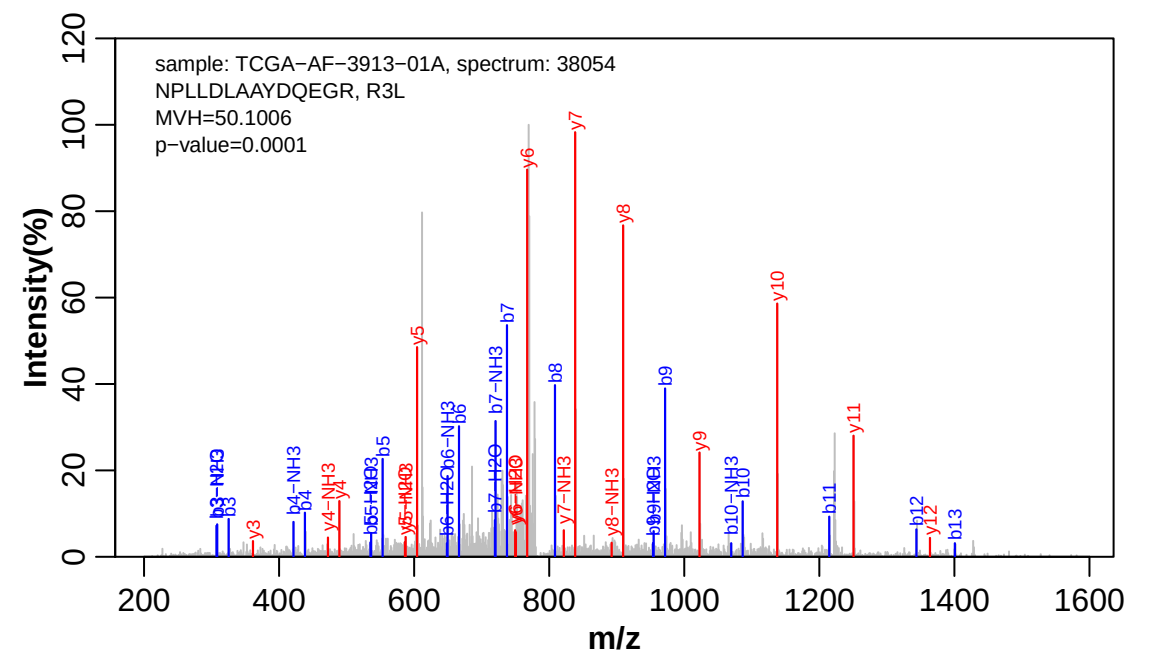

sample: TCGA−AF−3913−01A, spectrum: 149458
MGAQELLR, T1M
MVH=46.6637
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y2
b4−NH3
b4
y3
b5
y4
y5
b6
y5−NH3
y6
b7−NH3
b7
y7−NH3
y7

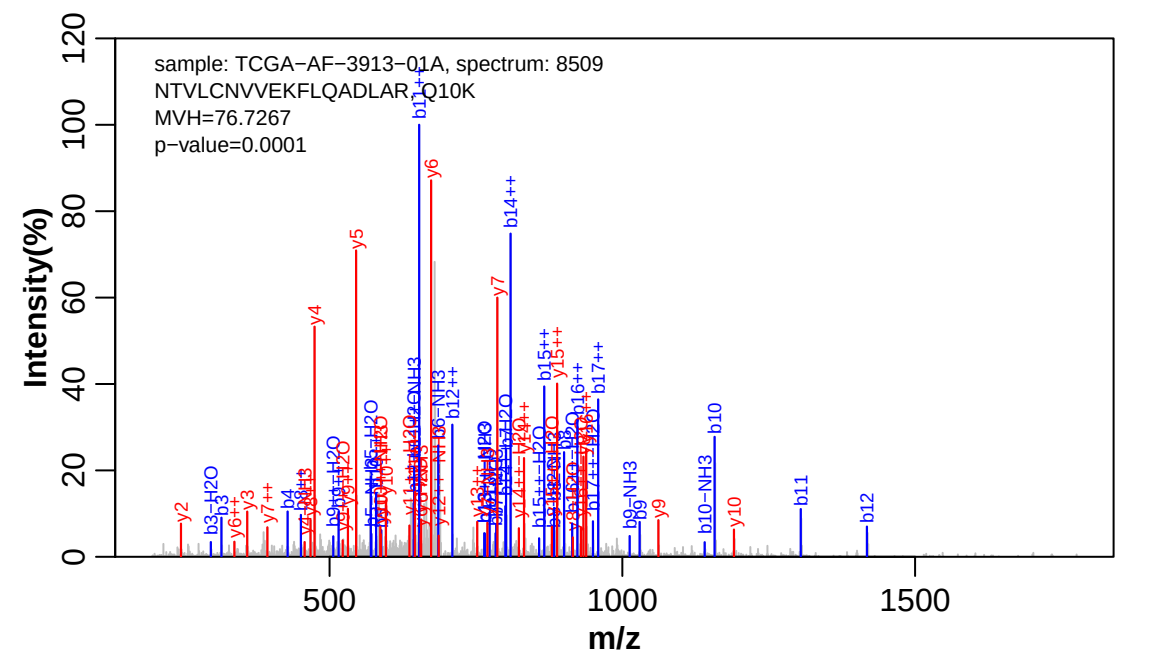

sample: TCGA−AF−3913−01A, spectrum: 78283
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=82.2777
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6++
b4
y8++
y6+
b15+++
b15+++−H2O
b15+++−NH3
b16+++
b16+++−H2O
b16+++−NH3
b17+++
b17+++−H2O
b17+++−NH3
b18+++
b18+++−H2O
b18+++−NH3
b19+++
b19+++−H2O
b19+++−NH3
b20+++
b20+++−H2O
b20+++−NH3
y20++
y20++−H2O
y20++−NH3
b13++−H2O
y6−NH3
y6−H2O
b7
y15++
y15++−H2O
y16++
y16++−H2O
b8
b18+−NH3

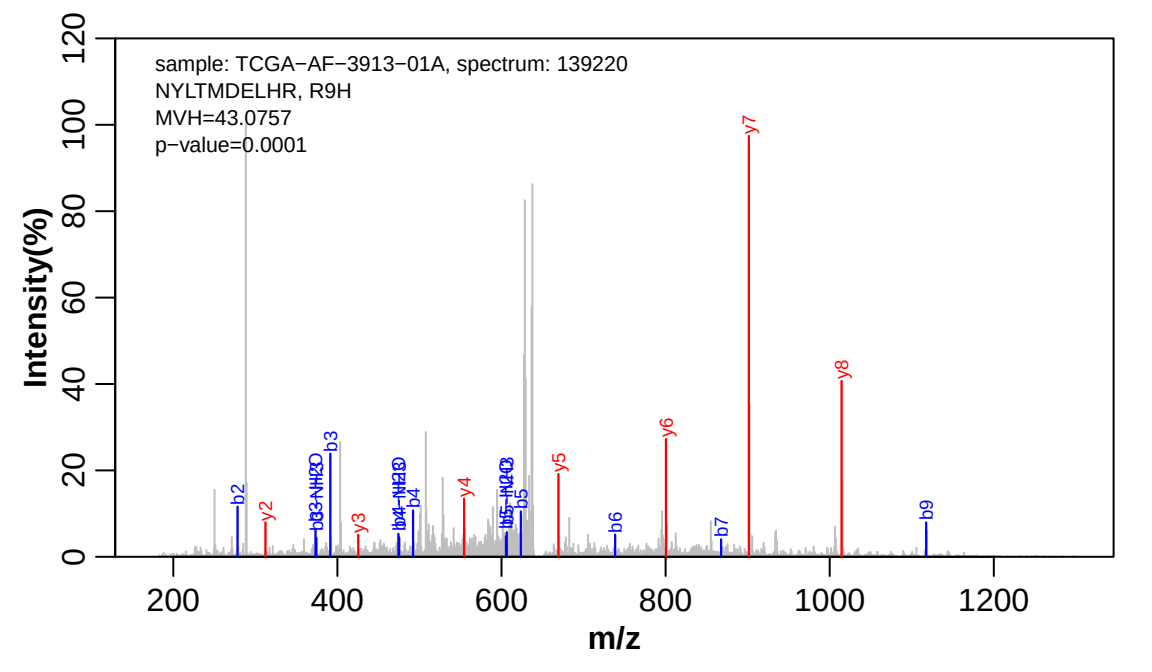

sample: TCGA−AF−3913−01A, spectrum: 15547
MQYAPNTQVELLPQGR, H16R
MVH=60.6518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4++
y4
b12++
b11++
b9++
b11++−NH3
y7++−H2O
y7
y8
b8
b10
b11
b12
b9

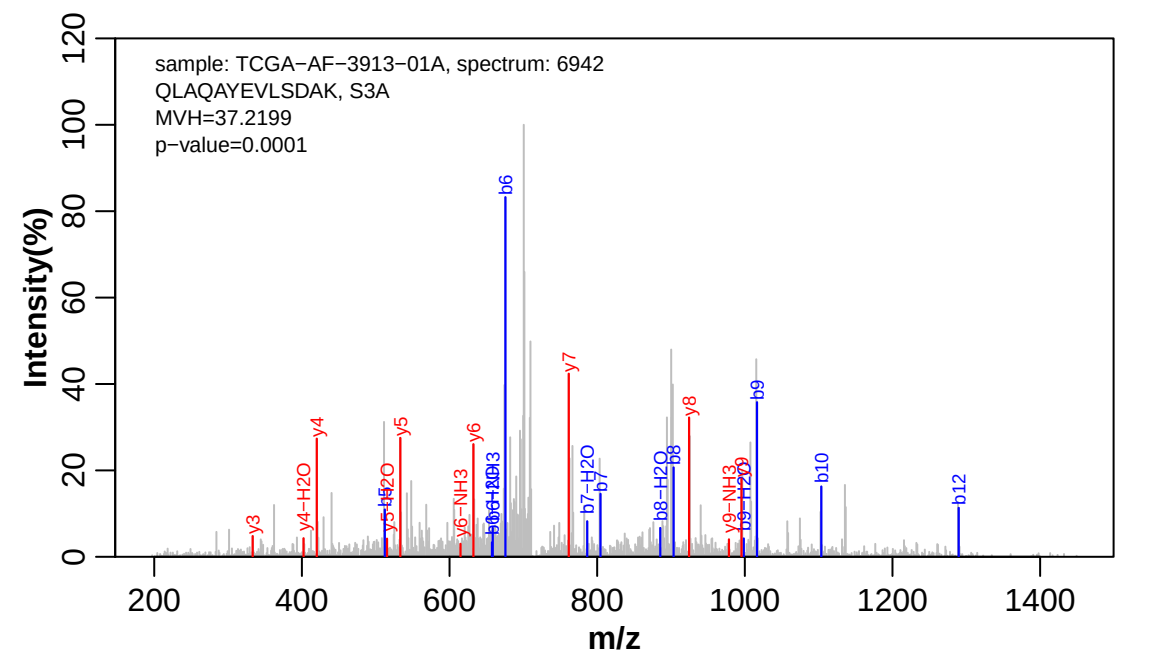

sample: TCGA−AF−3913−01A, spectrum: 56705
MVDFAGMK, V7M
MVH=30.1634
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y4
y5
y6
b7
y7

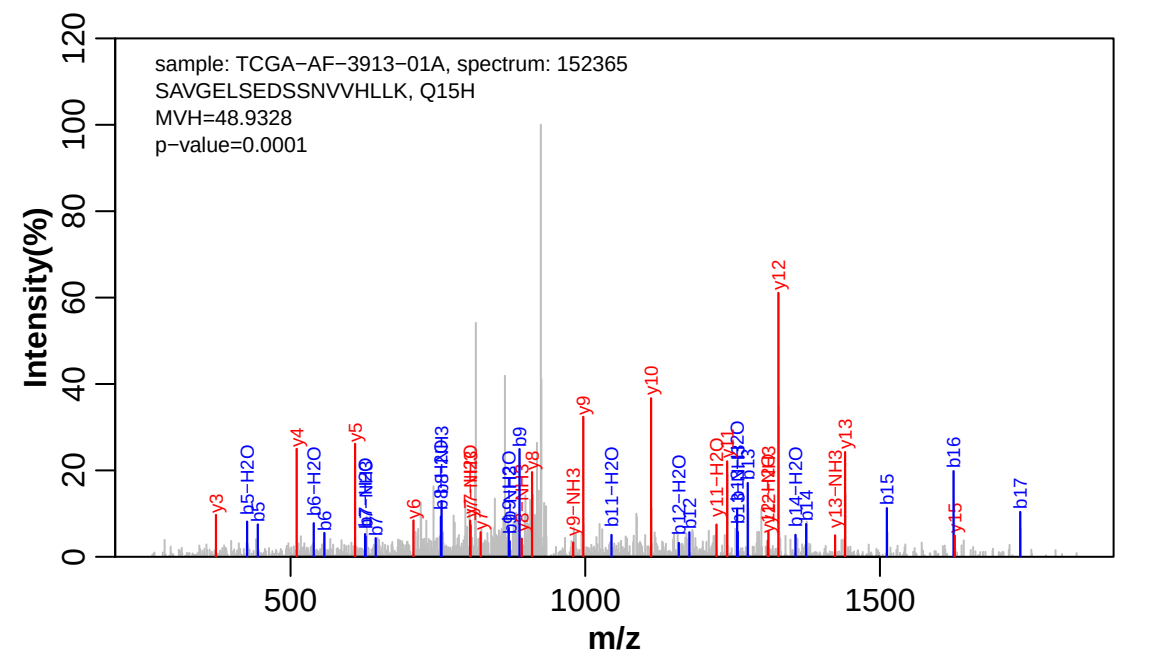

sample: TCGA−AF−3913−01A, spectrum: 128667
NLPSLAEQGASDPPTVASR, K7E
MVH=64.8559
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b7
y7
b8
y8
b9-H2O
y9
b10
y10
y11
b11
b12
y12
y13
y14
b16
b17

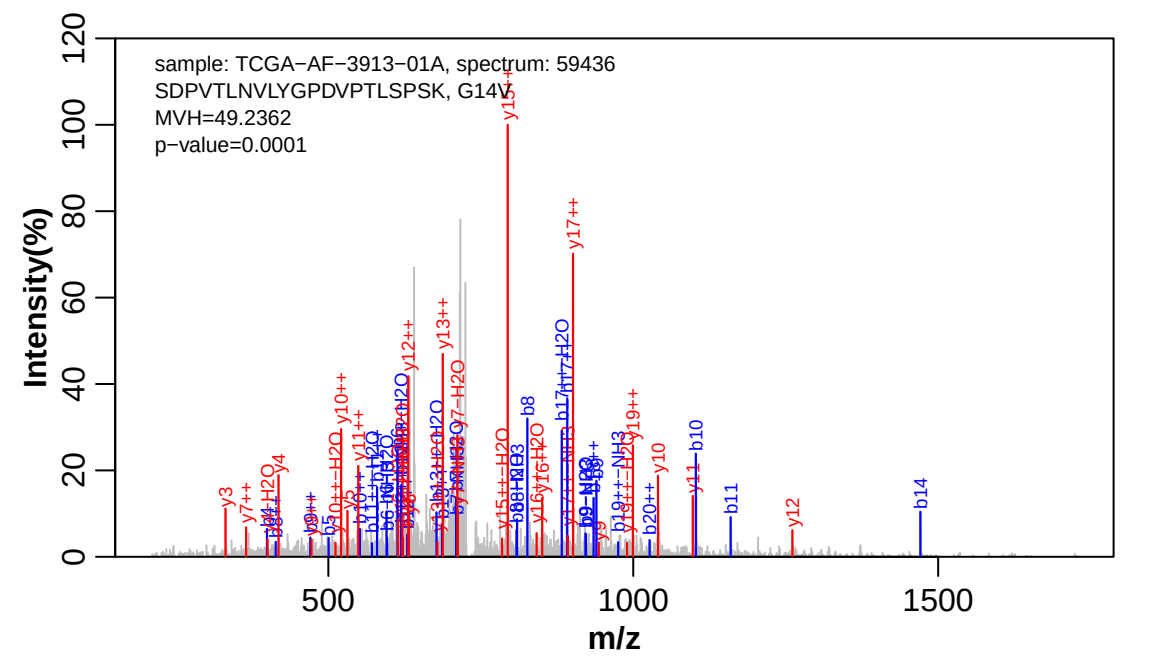

sample: TCGA−AF−3913−01A, spectrum: 38054
NPLLDLAAYDQEGR, R3L
MVH=50.1006
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
b7
b8
b9
y9
y11
b6
b5
b11
b12
b13
y3
y4
b4
b3
y12
b10
b7−NH3
y7−NH3
y8−NH3
y4−NH3
b4−NH3
b6−H2O−NH3
b10−NH3

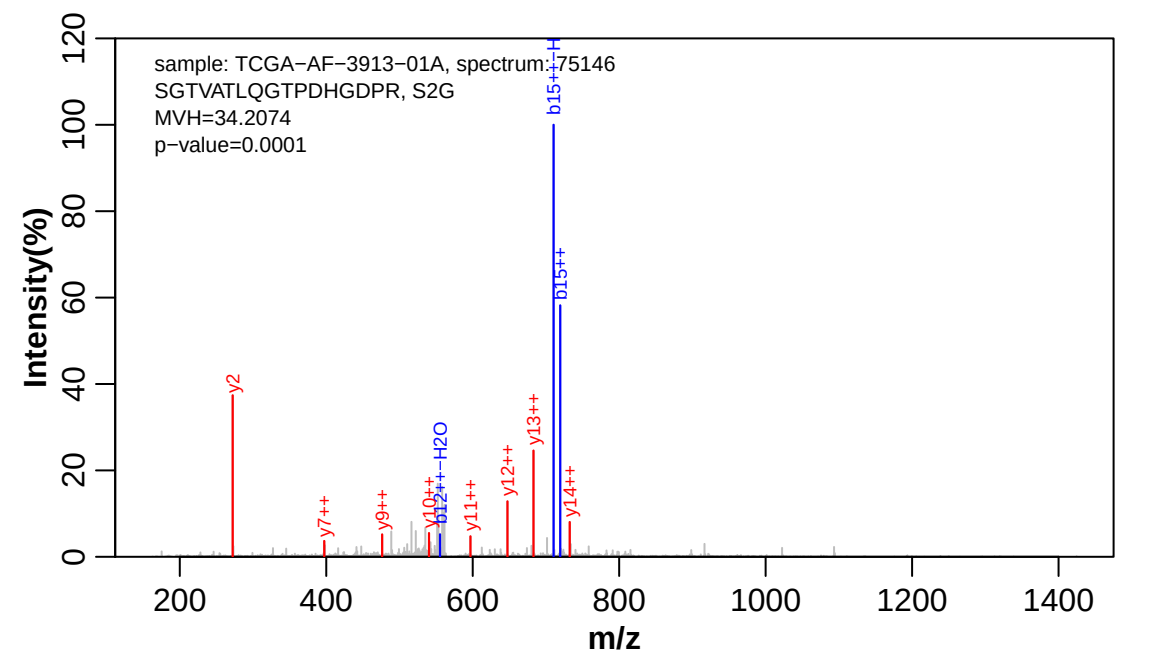

sample: TCGA−AF−3913−01A, spectrum: 8509
NTVLCNVVEKFLQADLAR, Q10K
MVH=76.7267
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
b3−H2O
b3
y6++
y3
y7++
b4
y4
y5
b11++
y6
b14++
y7
b12++
b15++
y15++
b17++
b8−NH3
y9
b10−NH3
b10
y10
b11
b12

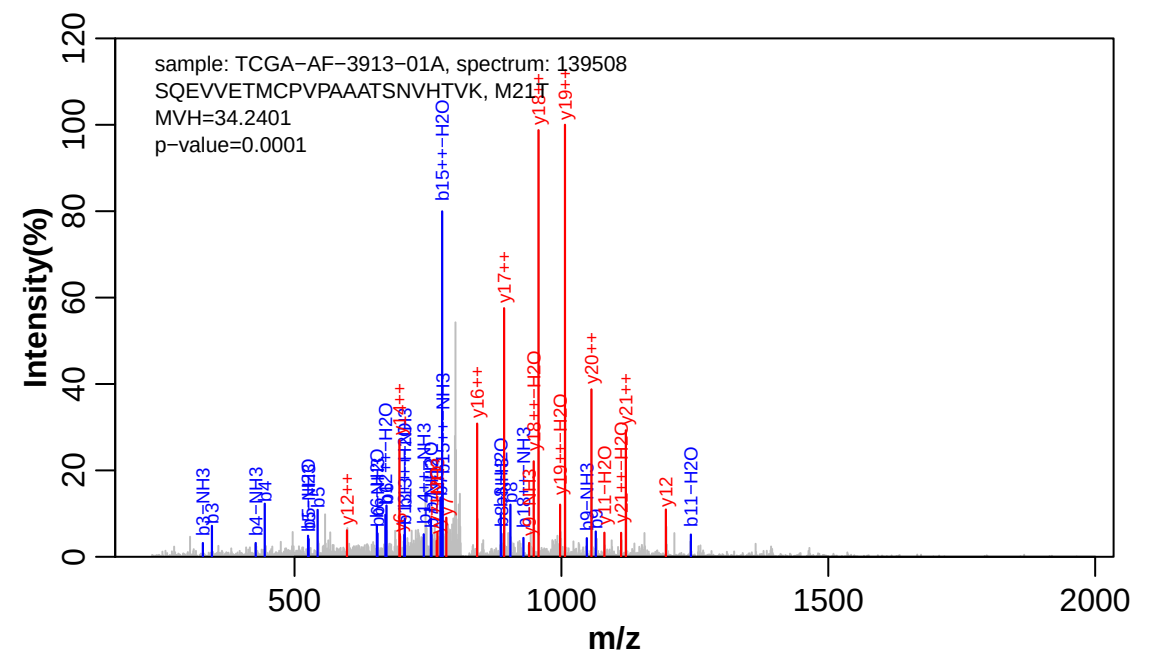

sample: TCGA−AF−3913−01A, spectrum: 139220
NYLTMDELHR, R9H
MVH=43.0757
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4
y5
b5
b6
y6
b7
y7
y8
b9

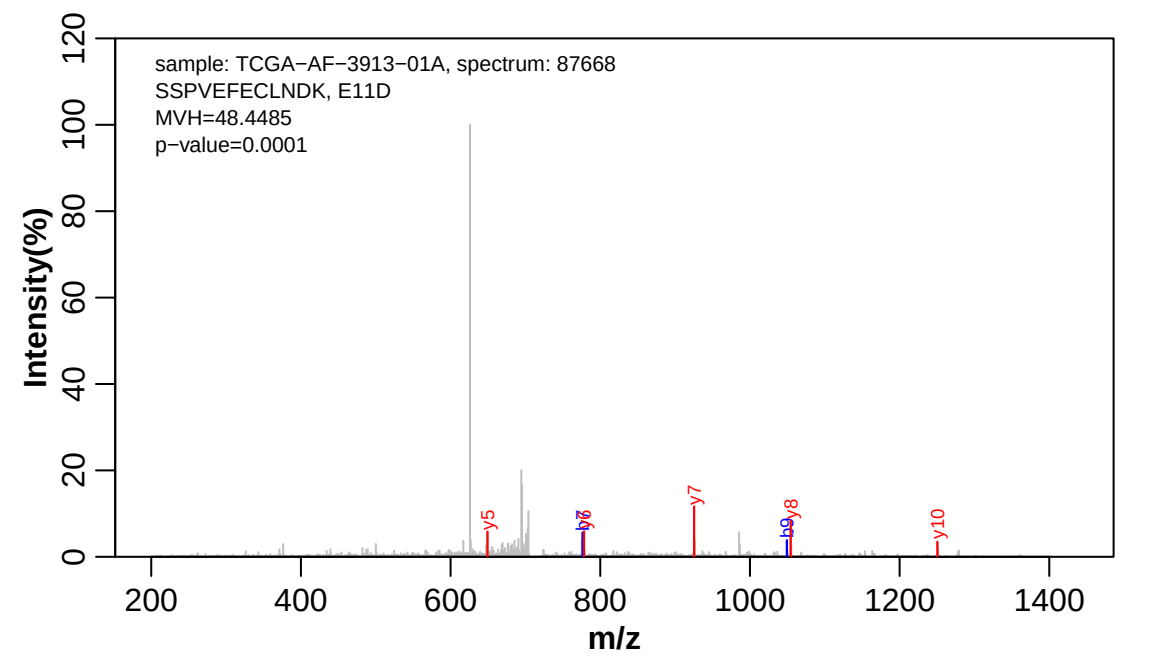

sample: TCGA−AF−3913−01A, spectrum: 6942
QLAQAYEVLSDAK, S3A
MVH=37.2199
p−value=0.0001
Intensity(%)
m/z
y3
y4−H2O
y4
y5−H2O
y5
y6−NH3
y6
b6
y7
b7−H2O
b7
b8−H2O
b8
y8
y9−NH3
b9−H2O
b9
b10
b12

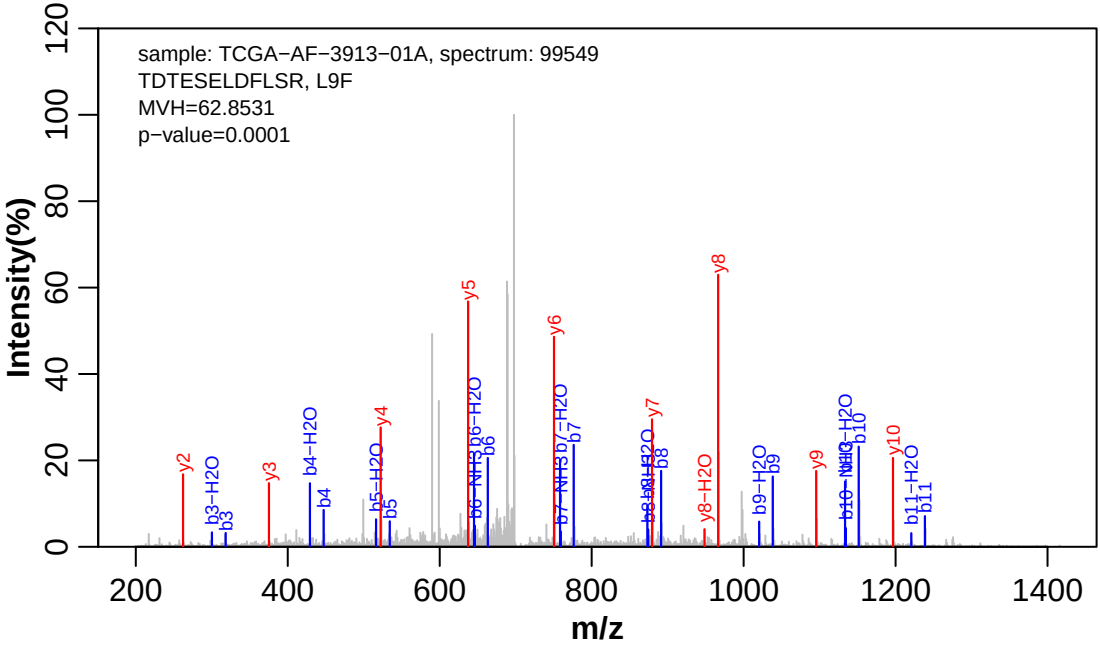

sample: TCGA−AF−3913−01A, spectrum: 152365
SAVGELSEDSSNVVHLLK, Q15H
MVH=48.9328
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6
y9−NH3
b11−H2O
y9
y10
b12−H2O
b12
y11−H2O
y12
b14−H2O
b14
y13−NH3
y13
b15
b16
y15
b17

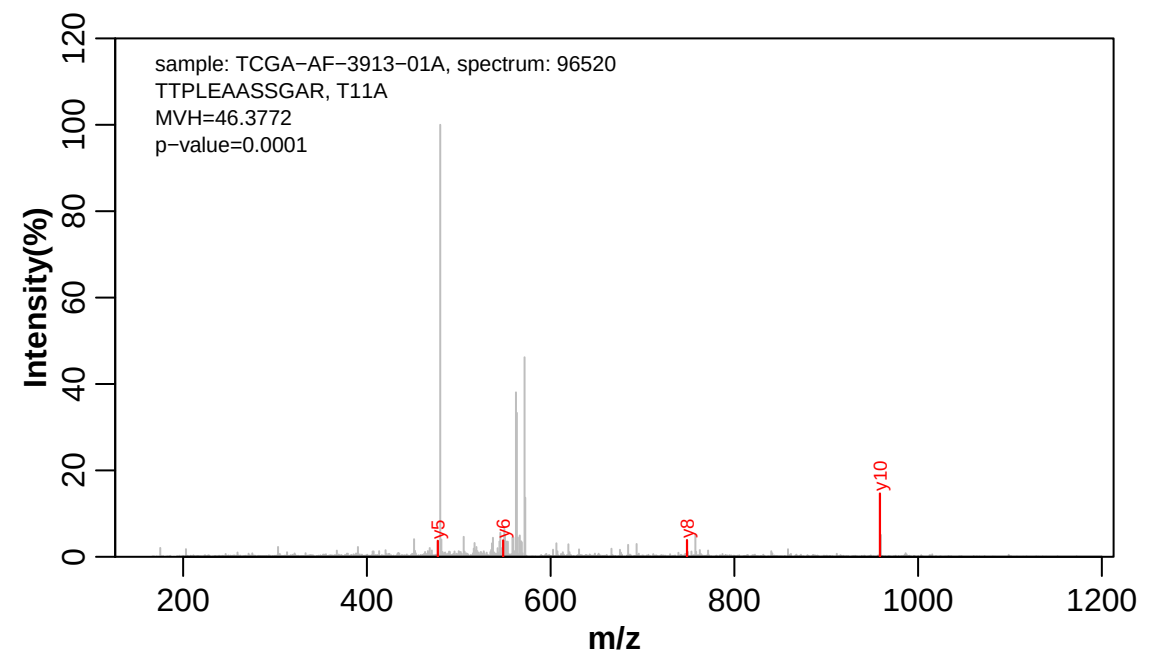

sample: TCGA−AF−3913−01A, spectrum: 59436
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=49.2362
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y17++
y13++
y12++
y10++
y3
y7++
y4
y5
y11++
y10
b11
b14
y12
b10
b8
y19++
y20++
y15++−H2O
y16−H2O
y17++−H2O
y13++−H2O
y12++−H2O
y10++−H2O
y7−H2O
y4−H2O

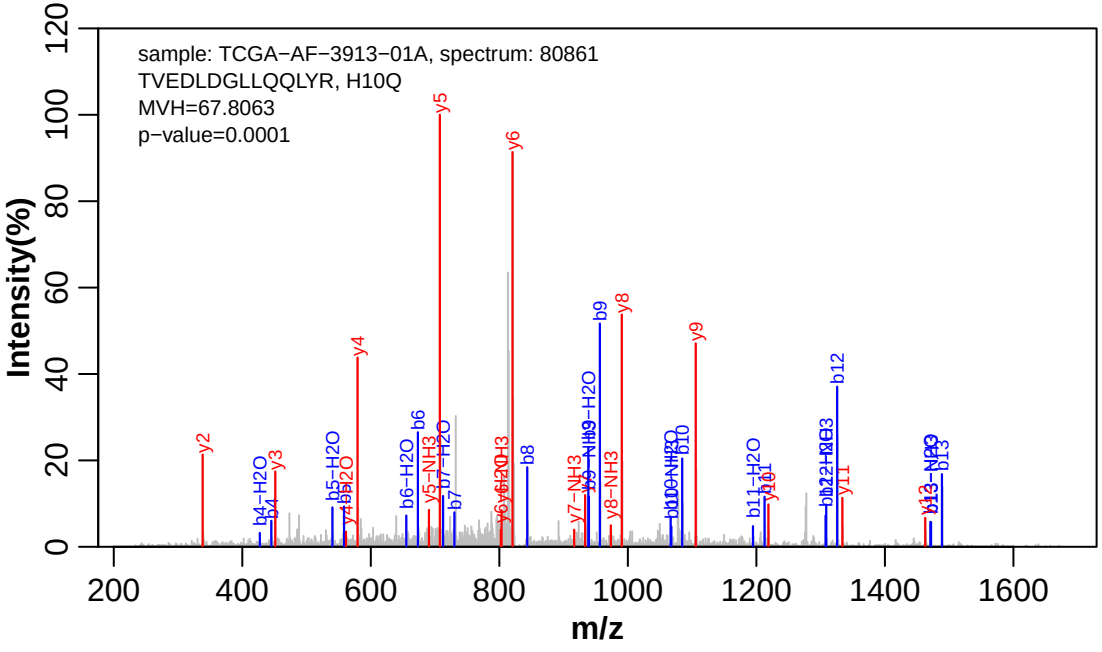

sample: TCGA−AF−3913−01A, spectrum: 75146
SGTVATLQGTPDHGDPR, S2G
MVH=34.2074
p−value=0.0001
b15++−H
b15++
y2
y7++
y9++
y10++
b12++−H2O
y11++
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

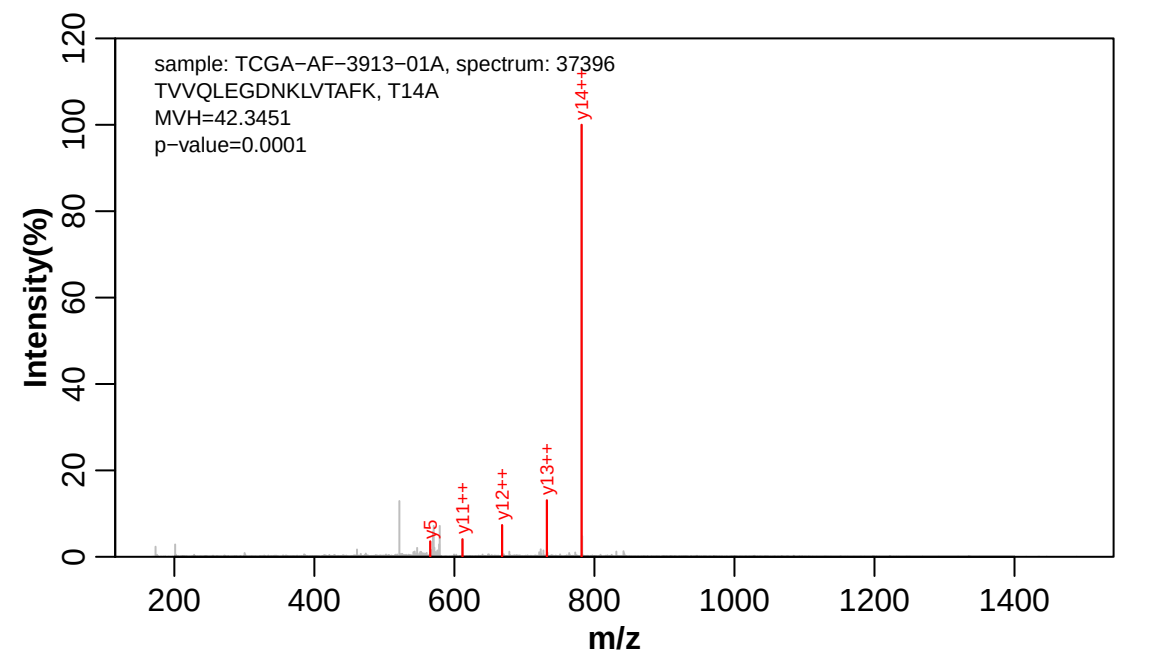

sample: TCGA−AF−3913−01A, spectrum: 139508
SQEVVETMCPVPAAATSNVHTVK, M21+
MVH=34.2401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b15++−H2O
y18++
y19++
y17++
y16++
y20++
y21++
y21++−H2O
y12++
y12
b11−H2O
b4−NH3
b3−NH3
y19++−H2O
y18++−H2O
y11−H2O
b9−NH3

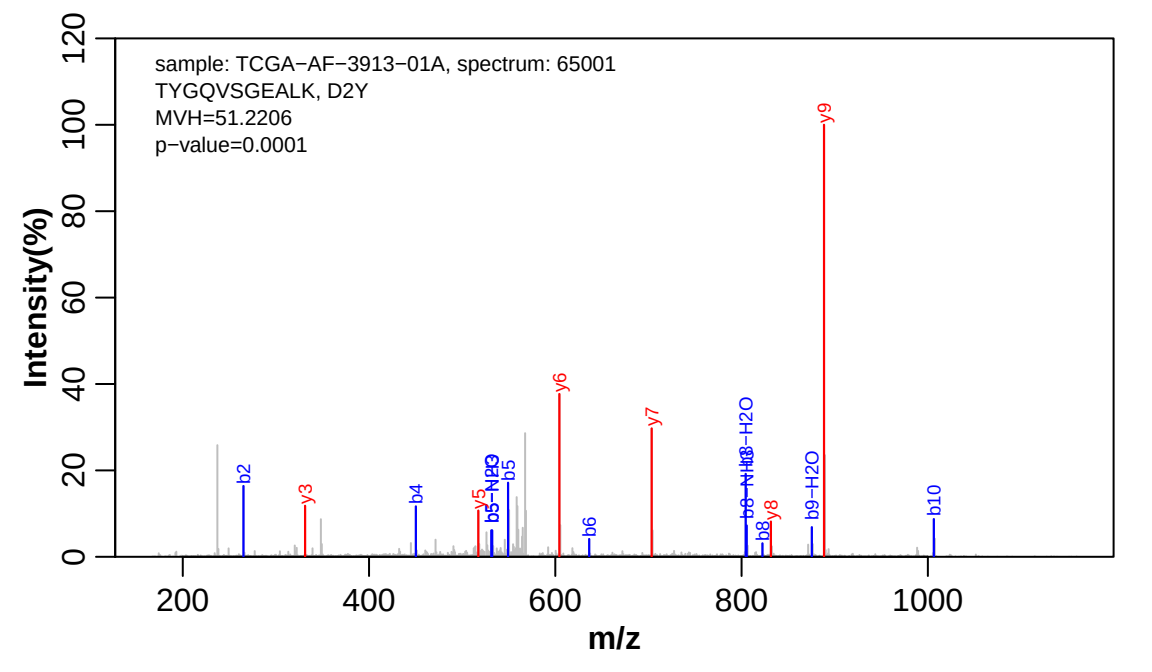

sample: TCGA−AF−3913−01A, spectrum: 87668
SSPVEFECLNDK, E11D
MVH=48.4485
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y5
b7
y7
b9
y8
y10

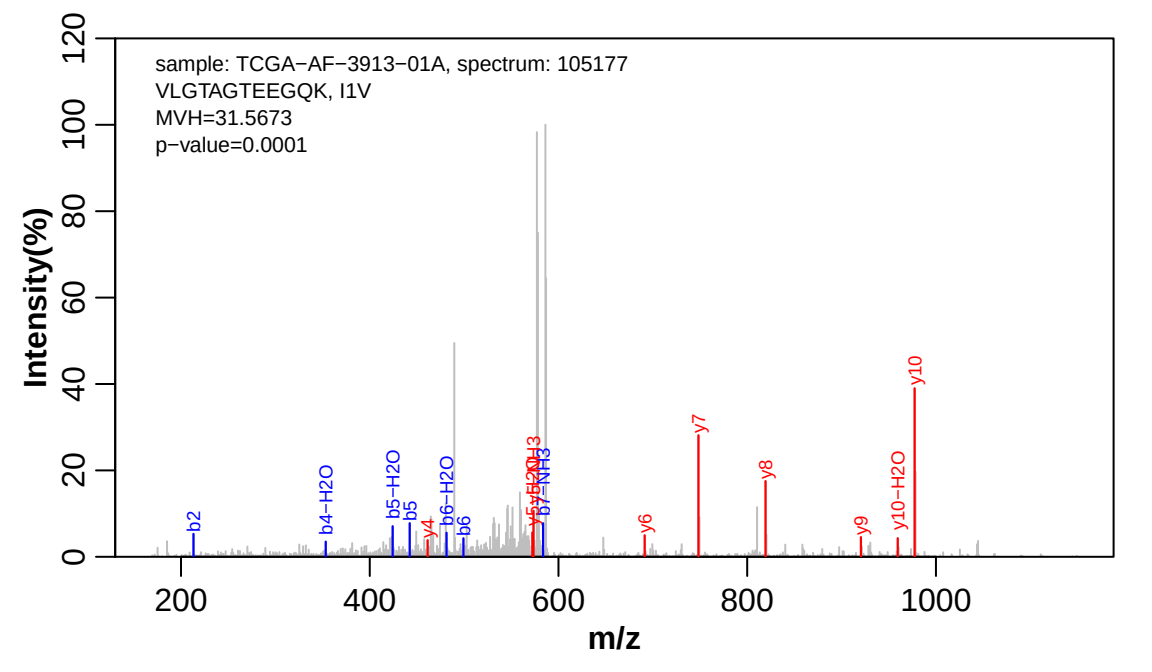

sample: TCGA−AF−3913−01A, spectrum: 99549
TDTESELDFLSR, L9F
MVH=62.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
b8−NH3
b8−H2O
y7
b8
y8
y8−H2O
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10
y10
b11−H2O
b11

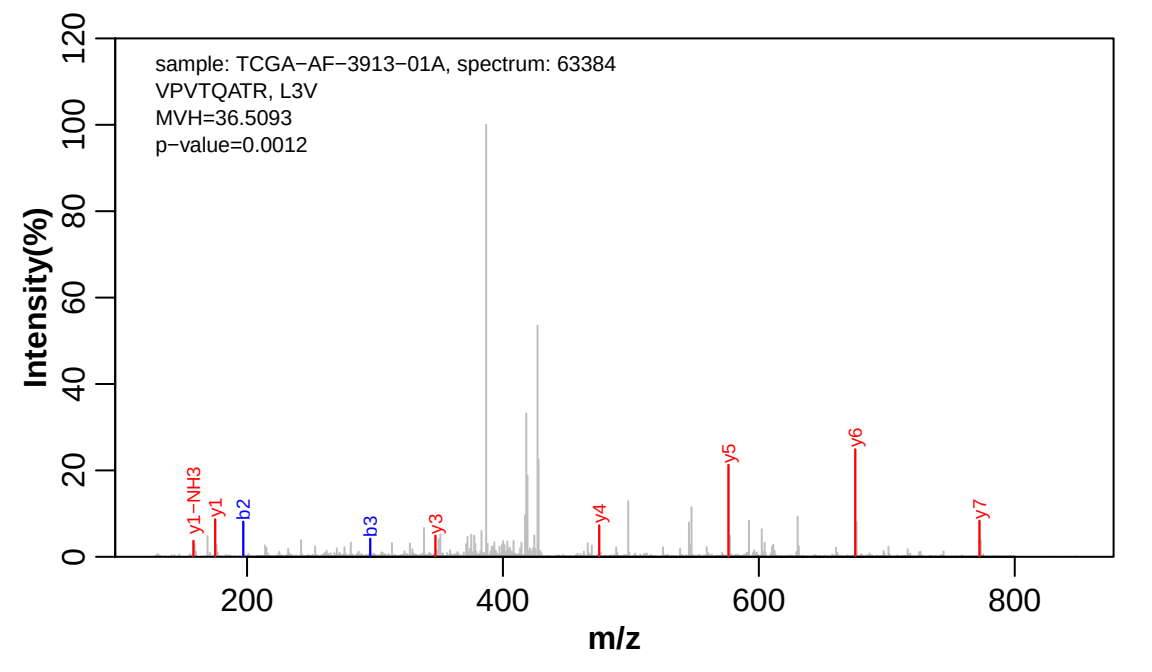

sample: TCGA−AF−3913−01A, spectrum: 96520
TTPLEAASSGAR, T11A
MVH=46.3772
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
y5
y6
y8
y10
200
400
600
800
1000
1200
m/z

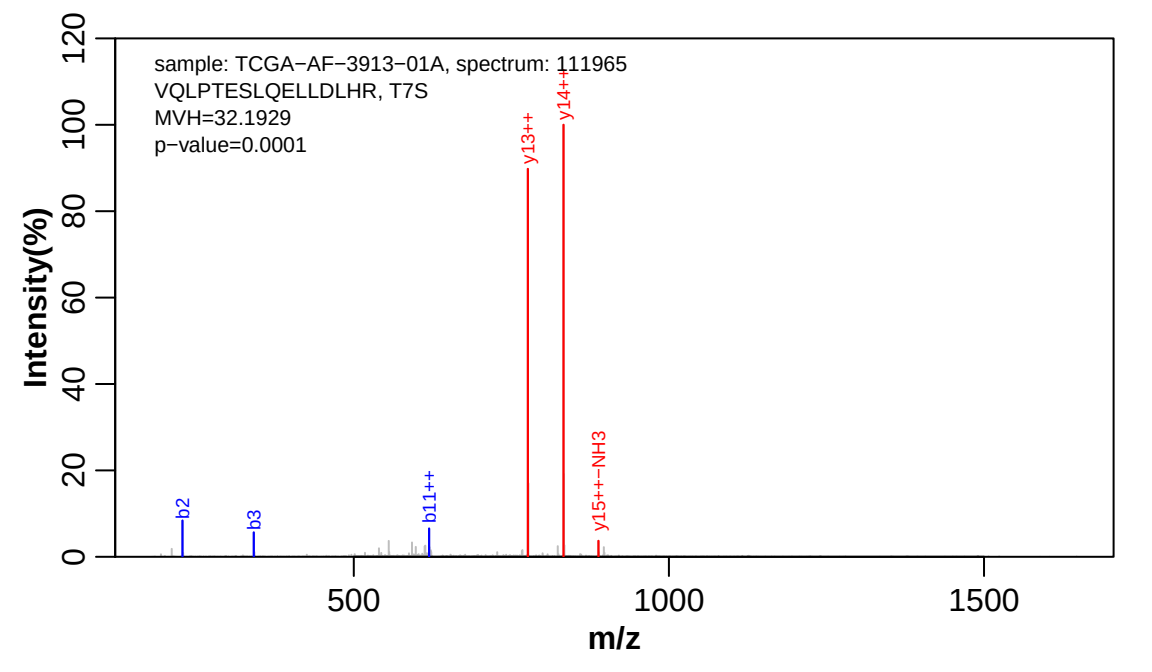

sample: TCGA−AF−3913−01A, spectrum: 80861
TVEDLDGLLQQLYR, H10Q
MVH=67.8063
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4−H2O
b4
b5−H2O
y4
b6−H2O
b6
y5−NH3
y5
b7−H2O
b7
b8
y6
y7−NH3
b9−NH3
b9−H2O
b9
y8−NH3
y8
b10−NH3
b10
y9
b11−H2O
y10
b12
y11
b13−NH3
b13

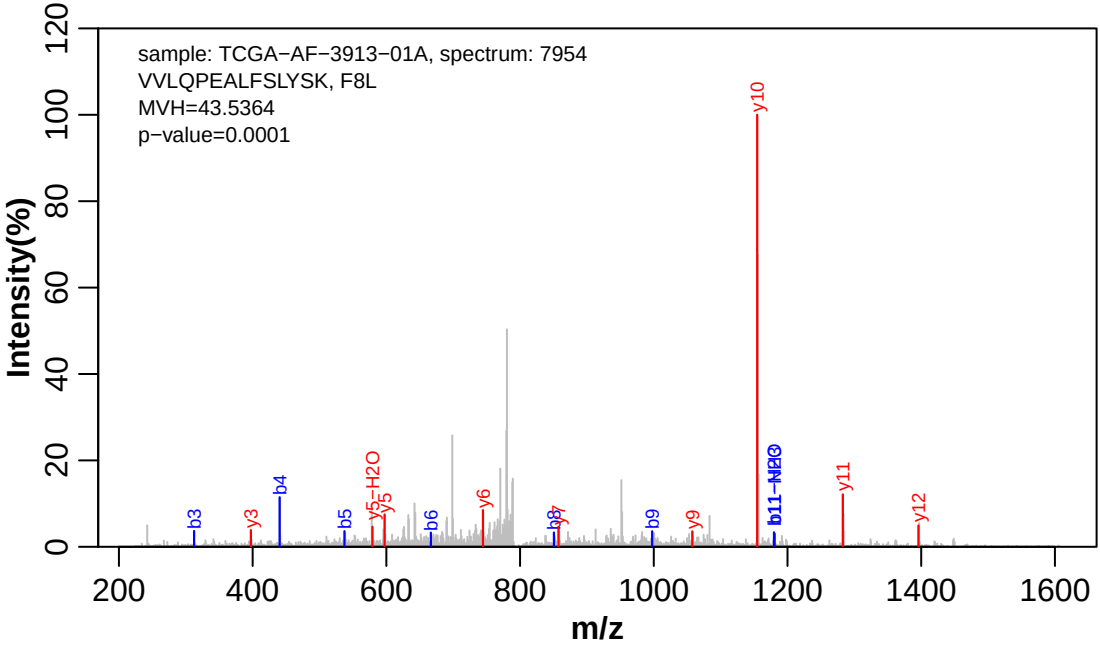

sample: TCGA−AF−3913−01A, spectrum: 37396
TVVQLEGDNKLVTAFK, T14A
MVH=42.3451
p−value=0.0001
y14++
y13++
y12++
y11++
y5
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

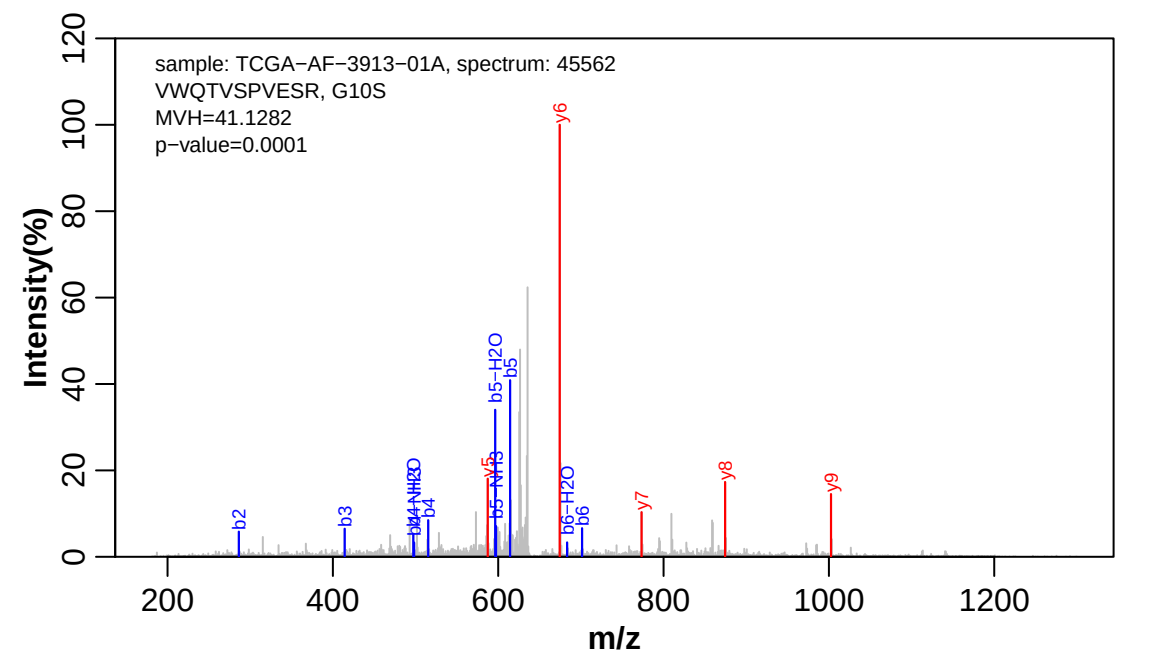

sample: TCGA−AF−3913−01A, spectrum: 65001
TYGQVSGEALK, D2Y
MVH=51.2206
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3
b4
y5
b5−NH3
b5
y6
b6
y7
b8−NH3
b8−H2O
b8
y8
b9−H2O
y9
b10

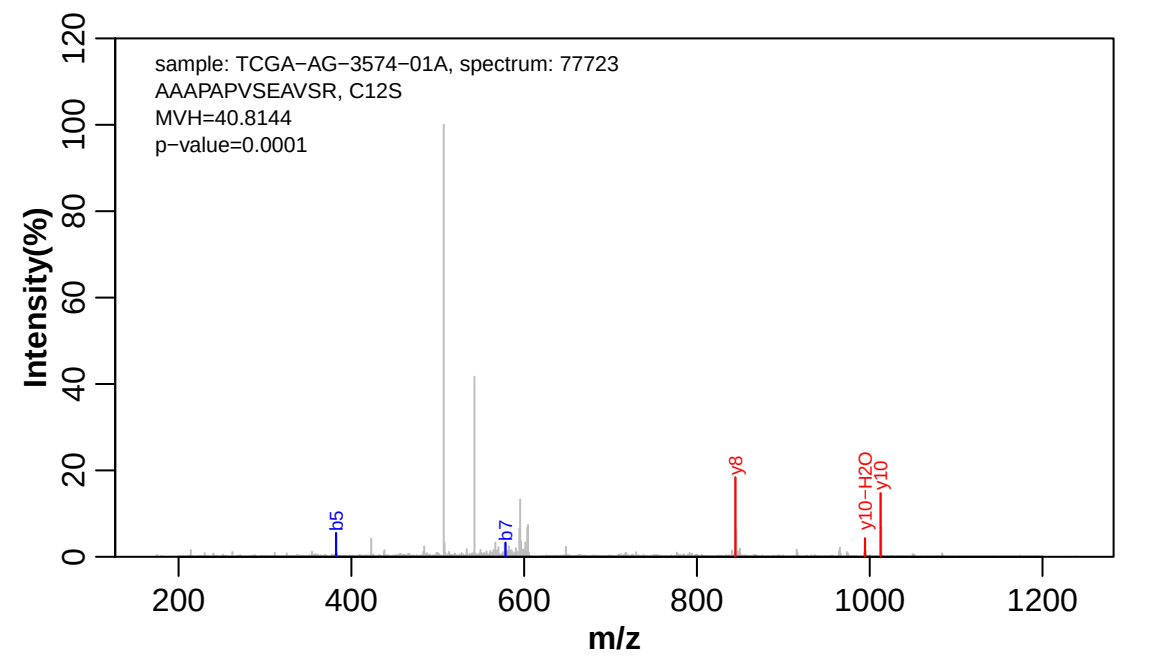

sample: TCGA−AF−3913−01A, spectrum: 105177
VLGTAGTEEGQK, I1V
MVH=31.5673
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b4−H2O
b5−H2O
b5
y4
b6−H2O
b6
y5−H2O+3
y5−NH3
b7−NH3
y6
y7
y8
y9
y10−H2O
y10

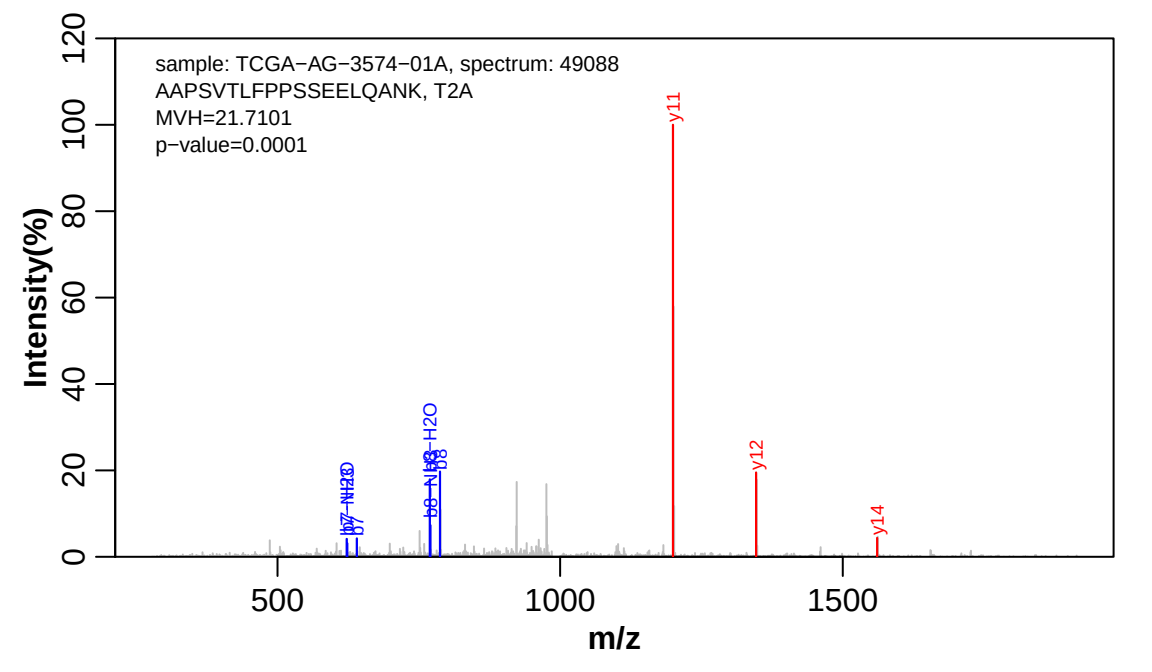

sample: TCGA−AF−3913−01A, spectrum: 63384
VPVTQATR, L3V
MVH=36.5093
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y3
y4
y5
y6
y7

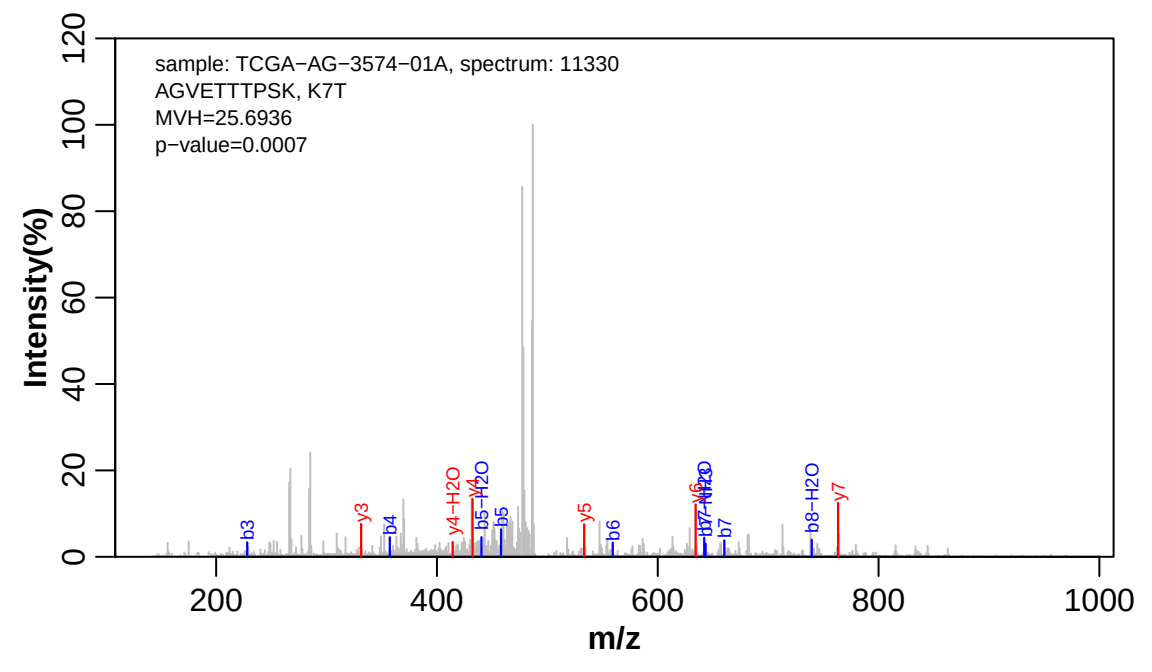

sample: TCGA−AF−3913−01A, spectrum: 111965
VQLPTESLQELLDLHR, T7S
MVH=32.1929
p−value=0.0001
y13++
y14++
b2
b3
b11++
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

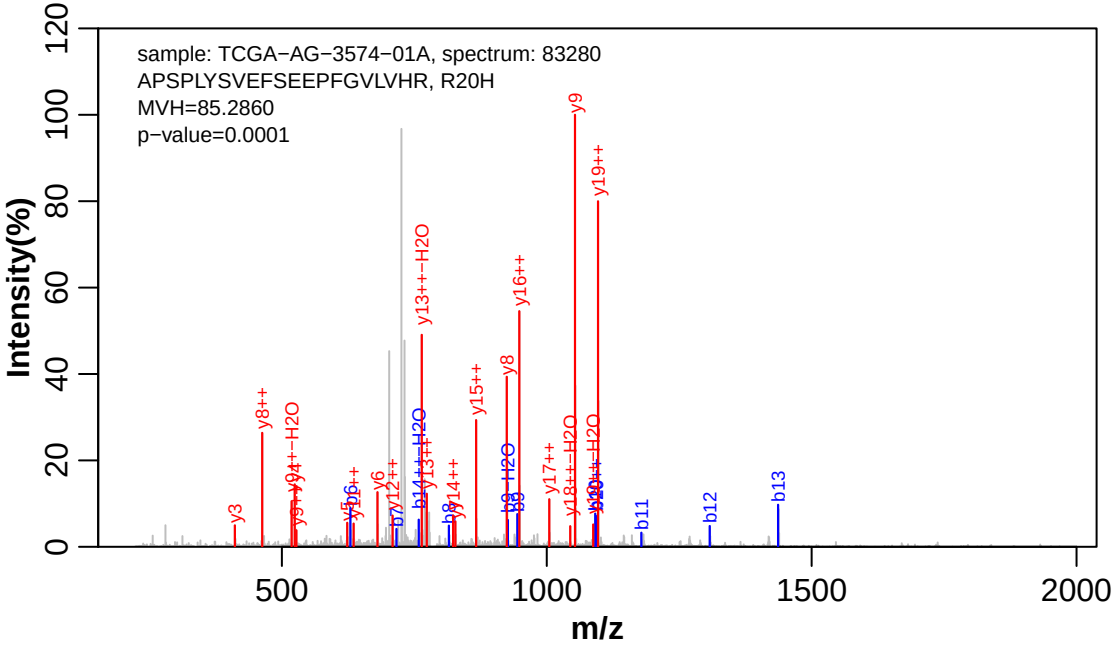

sample: TCGA−AF−3913−01A, spectrum: 7954
VVLQPEALFSLYSK, F8L
MVH=43.5364
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
b5
y5−H2O
y5
b6
y6
b8
y7
b9
y9
y10
b11−NH3
b11−H2O
y11
y12

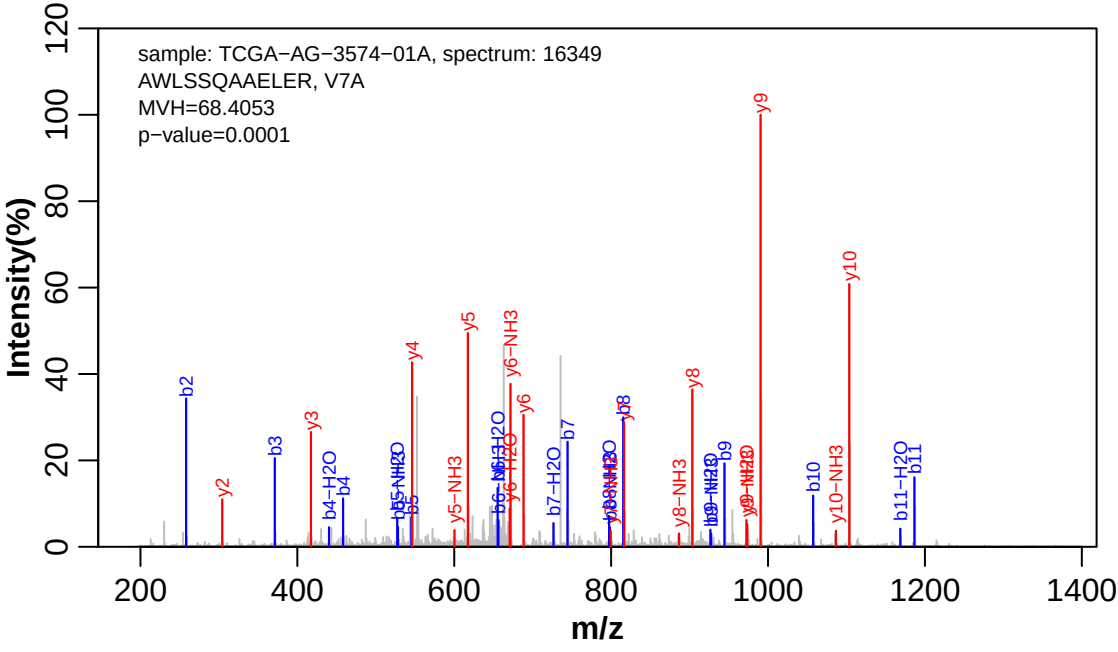

sample: TCGA−AF−3913−01A, spectrum: 45562
VWQTVSPVESR, G10S
MVH=41.1282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
b4
b5
b5−H2O
b5−NH3
b6
b6−H2O
y5
y6
y7
y8
y9

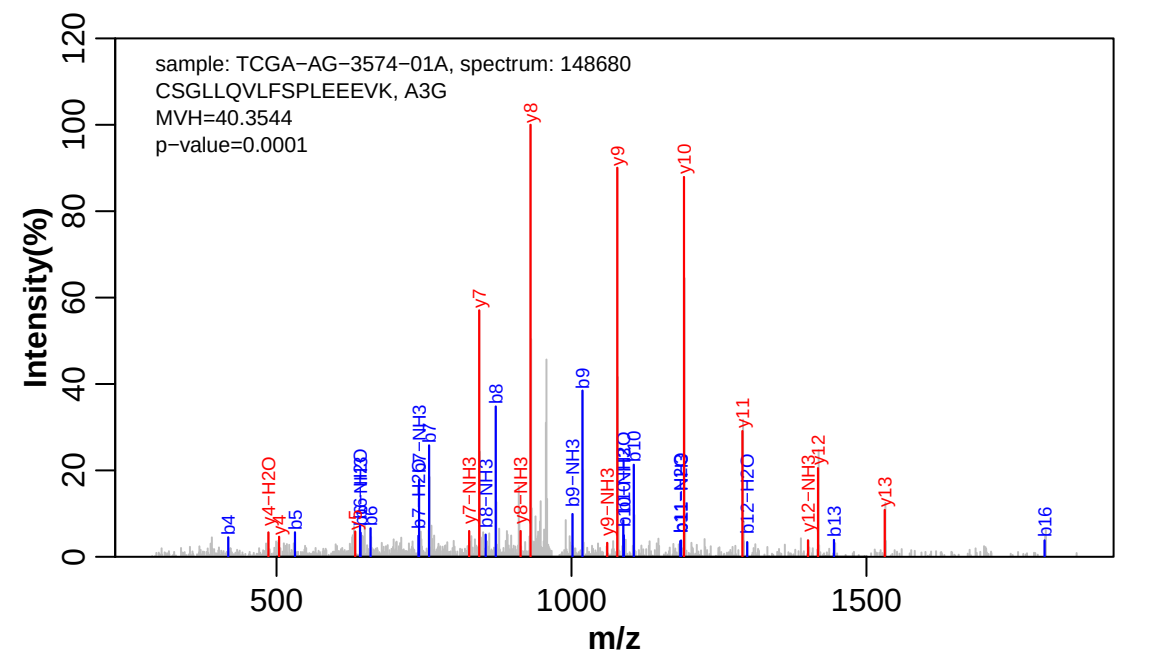

sample: TCGA−AG−3574−01A, spectrum: 77723
AAAPAPVSEAVSR, C12S
MVH=40.8144
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10−H2O
y10

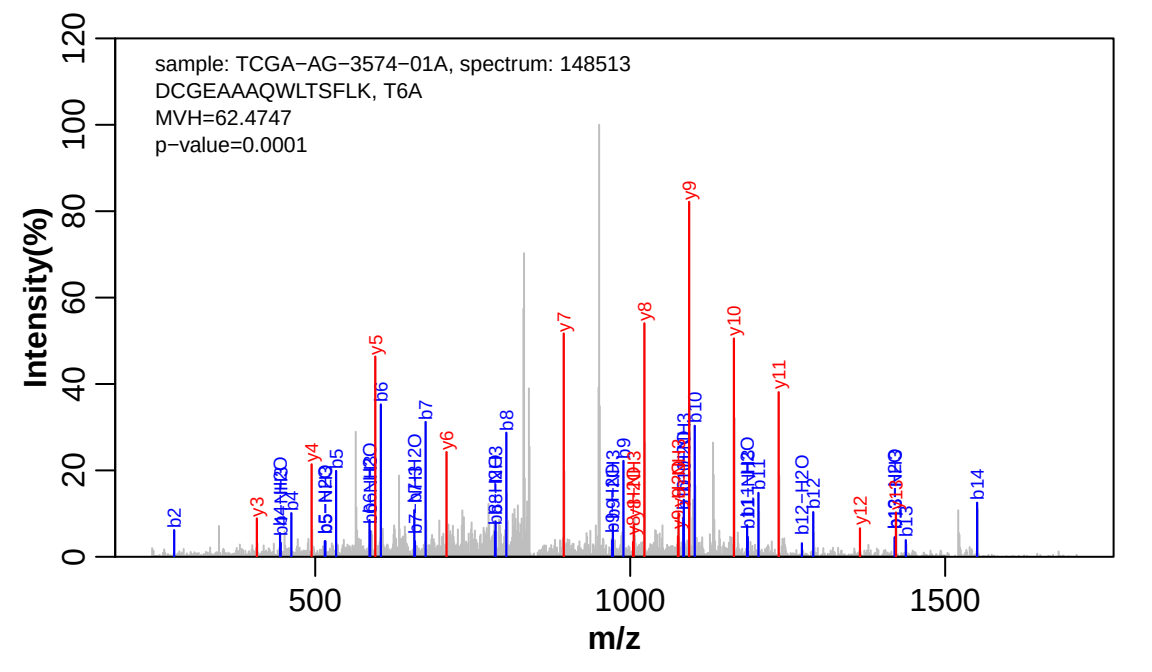

sample: TCGA−AG−3574−01A, spectrum: 49088
AAPSVTLFPPSSEELQANK, T2A
MVH=21.7101
p−value=0.0001
y11
y12
y14
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

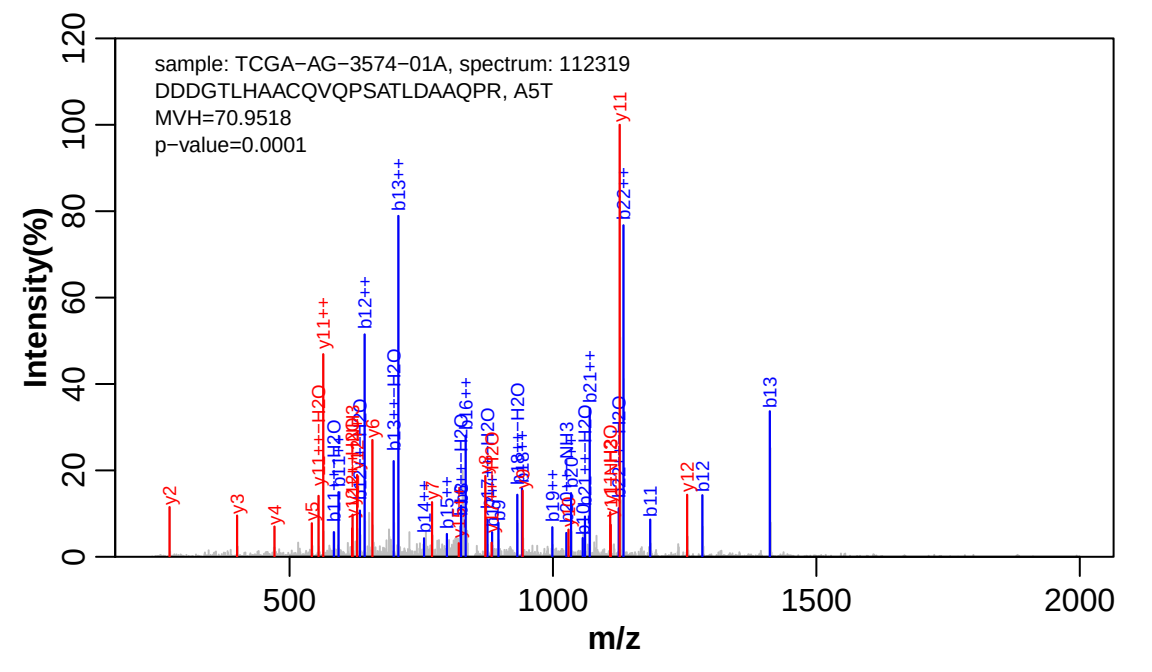

sample: TCGA−AG−3574−01A, spectrum: 11330
AGVETTTPSK, K7T
MVH=25.6936
p−value=0.0007
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4−H2O
y4
b5−H2O
b5
y5
b6
y6
b7−NH3
b7
b8−H2O
y7

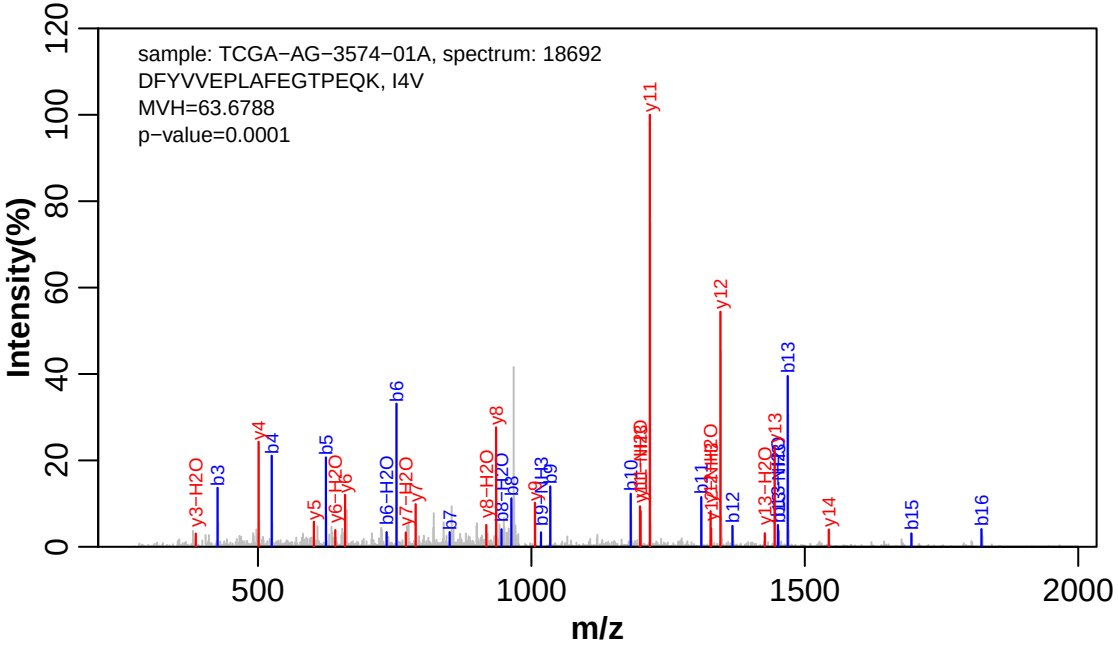

sample: TCGA−AG−3574−01A, spectrum: 83280
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=85.2860
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y8++
y9++−H2O
y9++
y5
y10++
y6
b7++
y12++
b14++−H2O
y13++−H2O
b8
y14++
y15++
b8−H2O
b9
y8
y16++
y17++
y18++−H2O
y19++−H2O
y19++
y9
b11
b12
b13

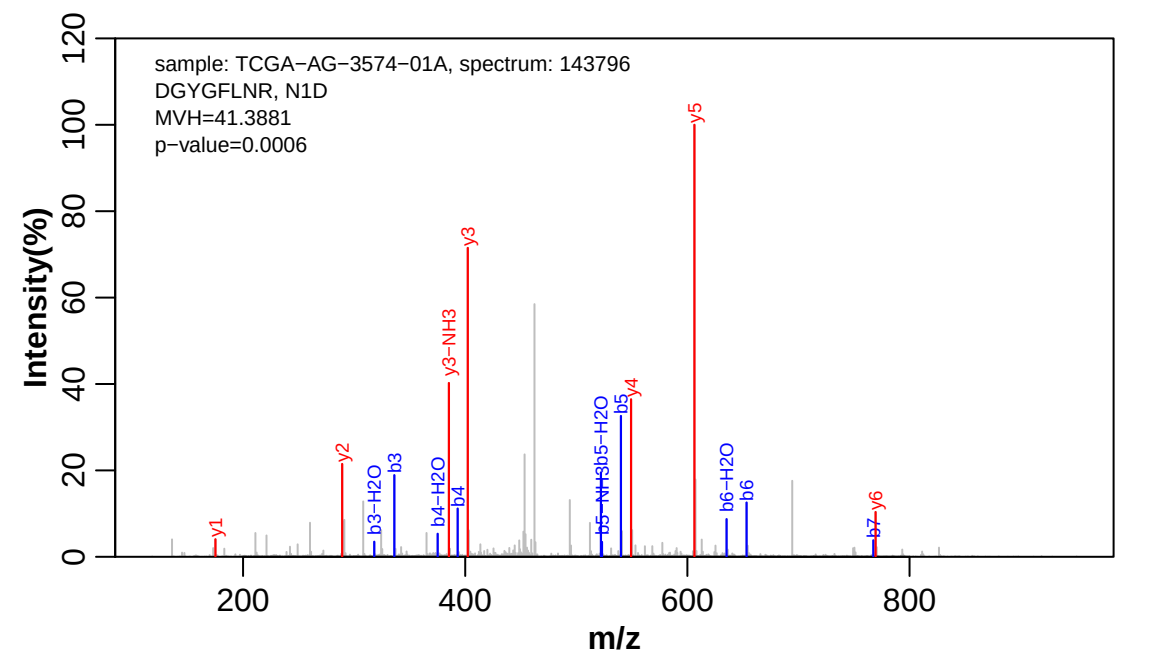

sample: TCGA−AG−3574−01A, spectrum: 16349
AWLSSQAAELER, V7A
MVH=68.4053
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y5−NH3
y6−NH3
y6
b7−H2O
b7
y8
y8−NH3
b9
b10
y9
y10
y10−NH3
b11−H2O
b11

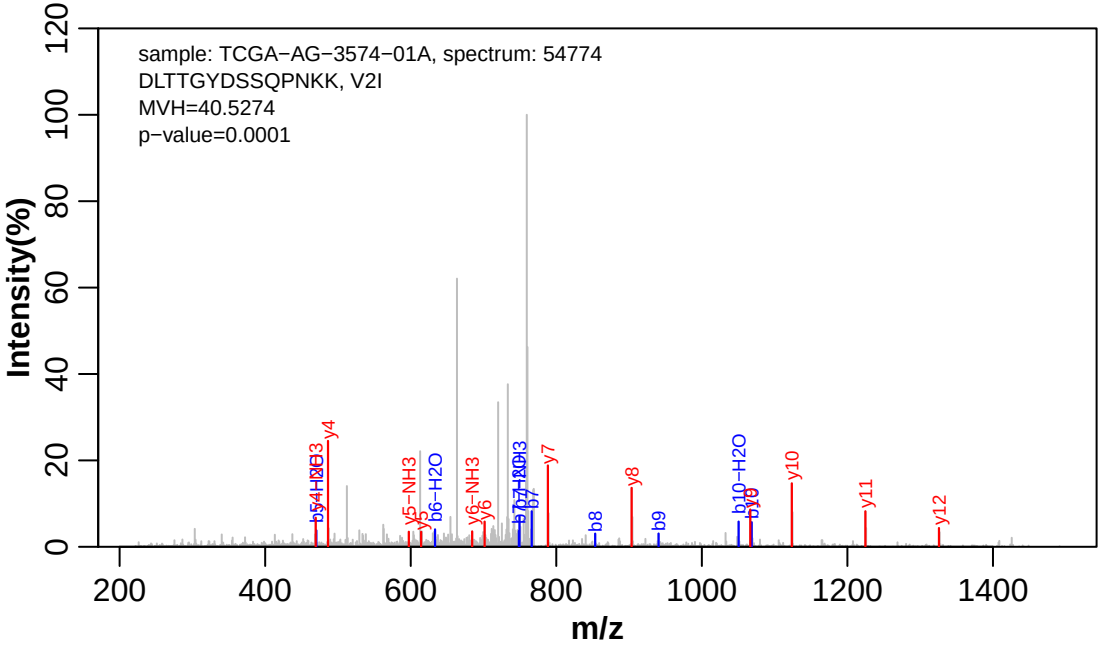

sample: TCGA−AG−3574−01A, spectrum: 148680
CSGLLQVLFSPLEEEVK, A3G
MVH=40.3544
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y7
b9
b8
y11
y12
y13
b16
b4
y4−H2O
b5
y4
b7−NH3
y7−NH3
b8−NH3
y8−NH3
b9−NH3
y9−NH3
b12−H2O
y12−NH3
b13

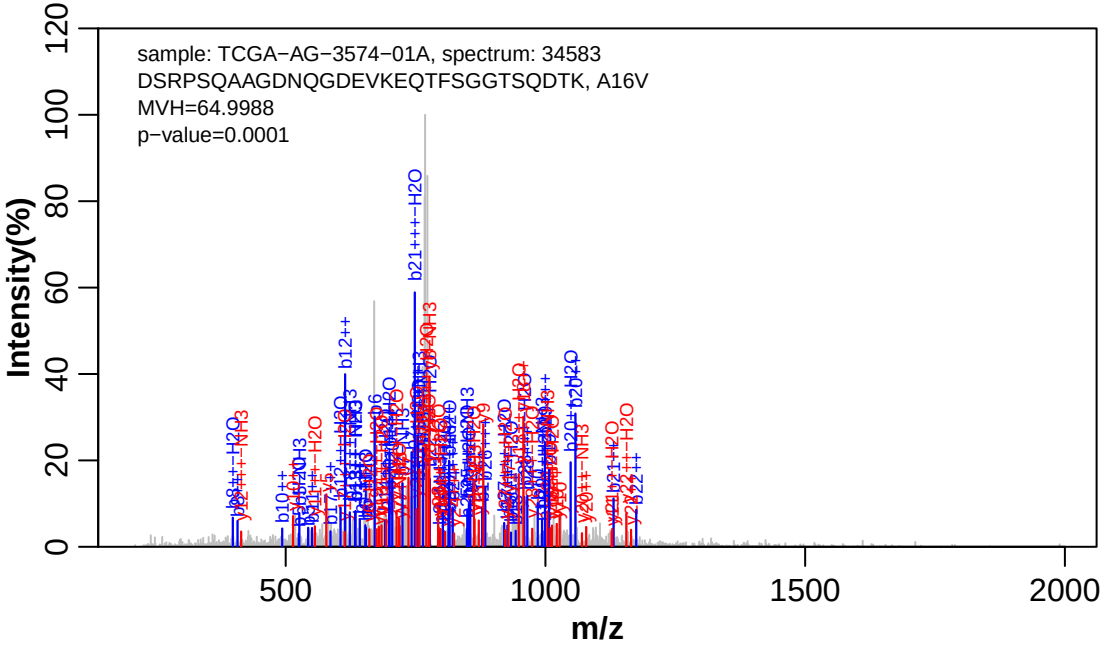

sample: TCGA−AG−3574−01A, spectrum: 148513
DCGEAAAQWLTSFLK, T6A
MVH=62.4747
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
b14

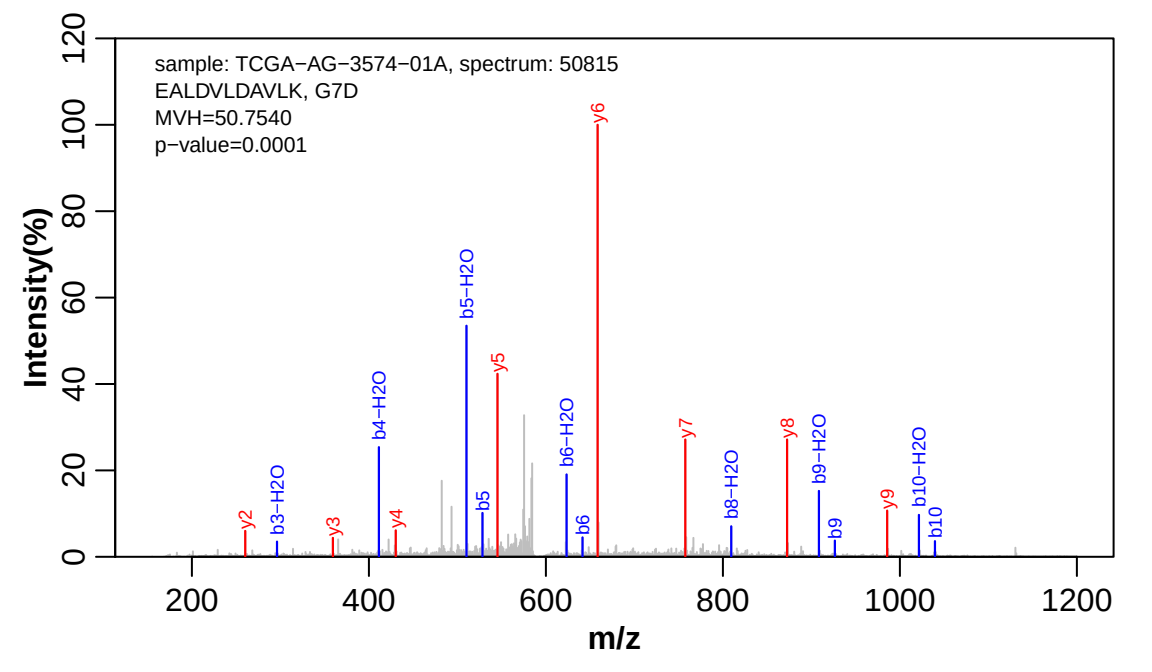

sample: TCGA−AG−3574−01A, spectrum: 112319
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=70.9518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y5
y11++−H2O
y11++
b11++H2O
b12++
b13++
b13++−H2O
y6
b14++
b15++
b16++
b16++−H2O
b18++−H2O
b19++
b21++−H2O
b21++
y11
b22++
b13
y12
b12
b11

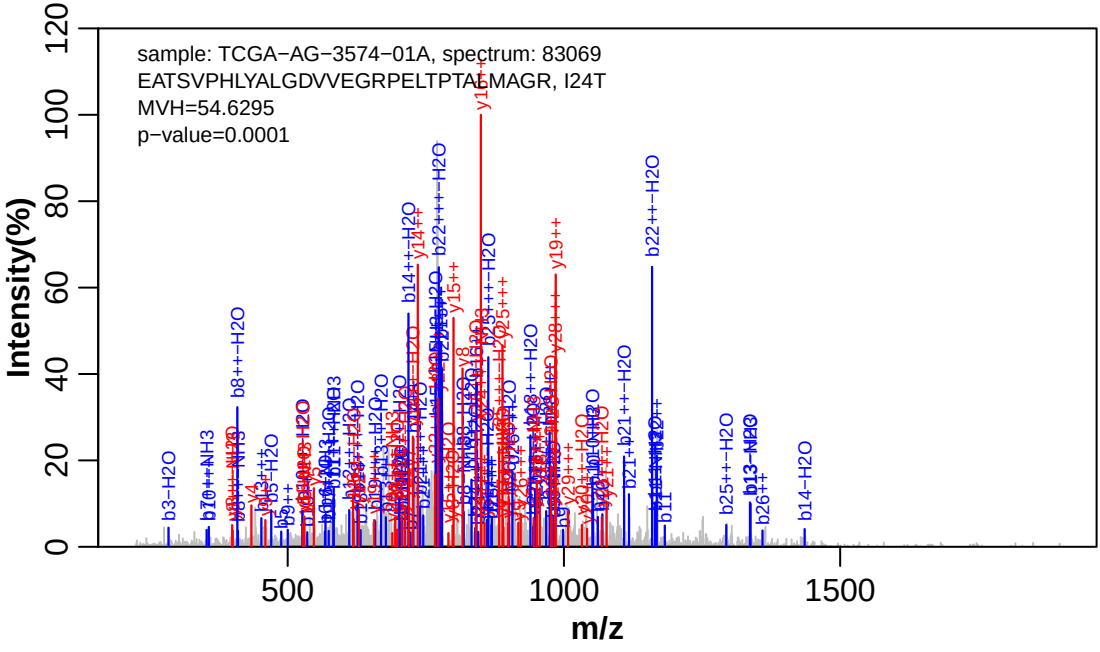

sample: TCGA−AG−3574−01A, spectrum: 18692
DFYVVEPLAFEGTPEQK, I4V
MVH=63.6788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y11
y12
y4
b4
b3
b5
b6
b13
y8
y14
b15
b16
y3−H2O
y5
y6−H2O
y6
b6−H2O
y7−H2O
b7
y8−H2O
b8−H2O
b8
b9−H2O
b9
b10
b11
b12
y13−H2O
y13

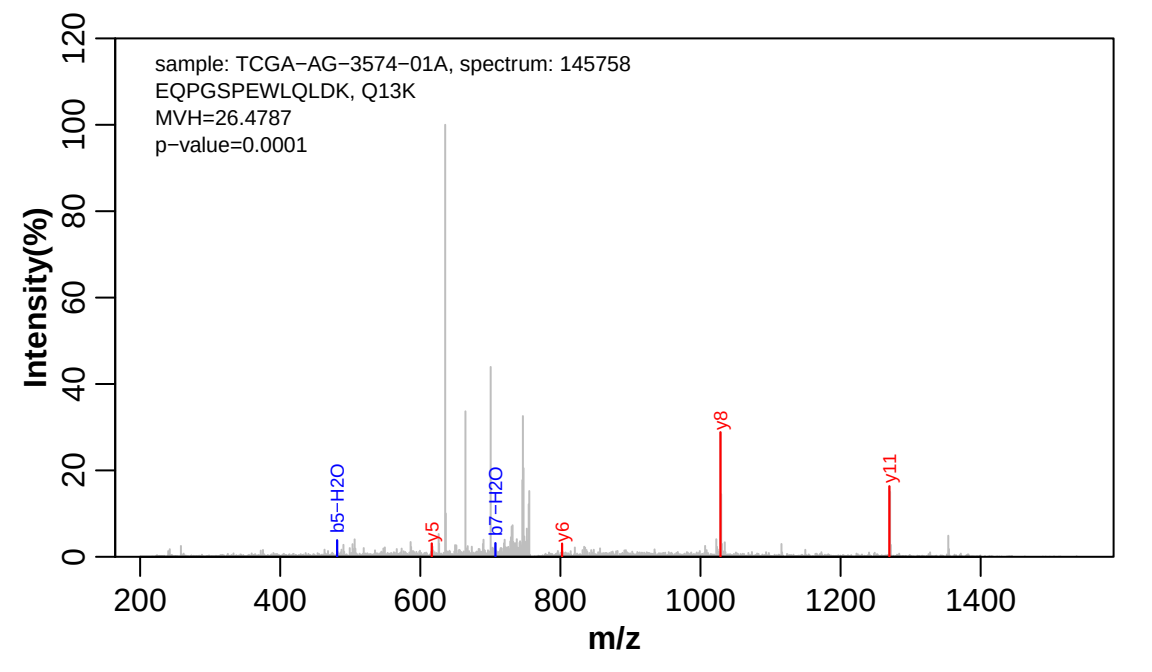

sample: TCGA−AG−3574−01A, spectrum: 143796
DGYGFLNR, N1D
MVH=41.3881
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

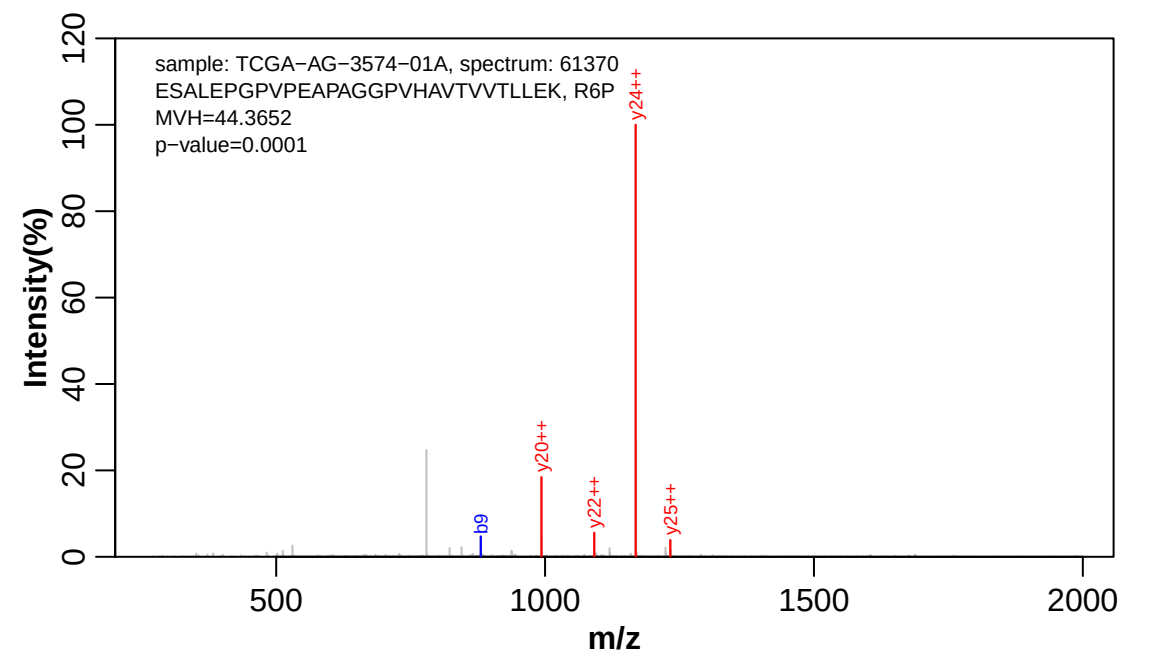

sample: TCGA−AG−3574−01A, spectrum: 54774
DLTTGYDSSQPNKK, V2I
MVH=40.5274
p−value=0.0001
Intensity(%)
m/z
y4
y5−NH3
y5
b6−H2O
y6−NH3
y6
y7
b8
y8
b9
b10−H2O
y10
y11
y12

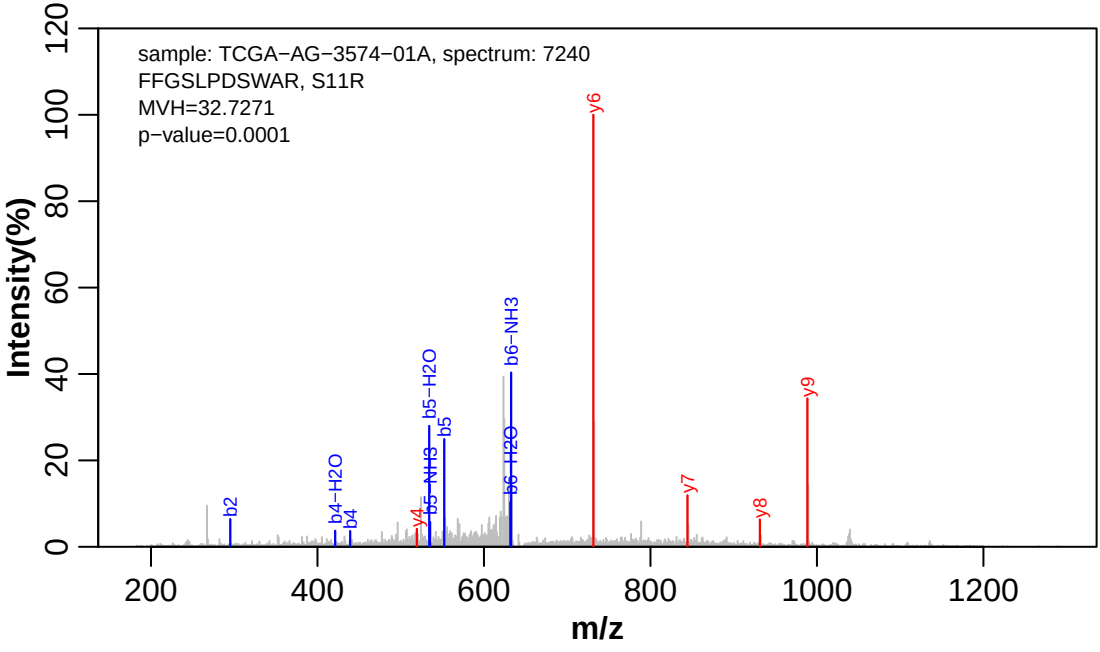

sample: TCGA−AG−3574−01A, spectrum: 34583
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=64.9988
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

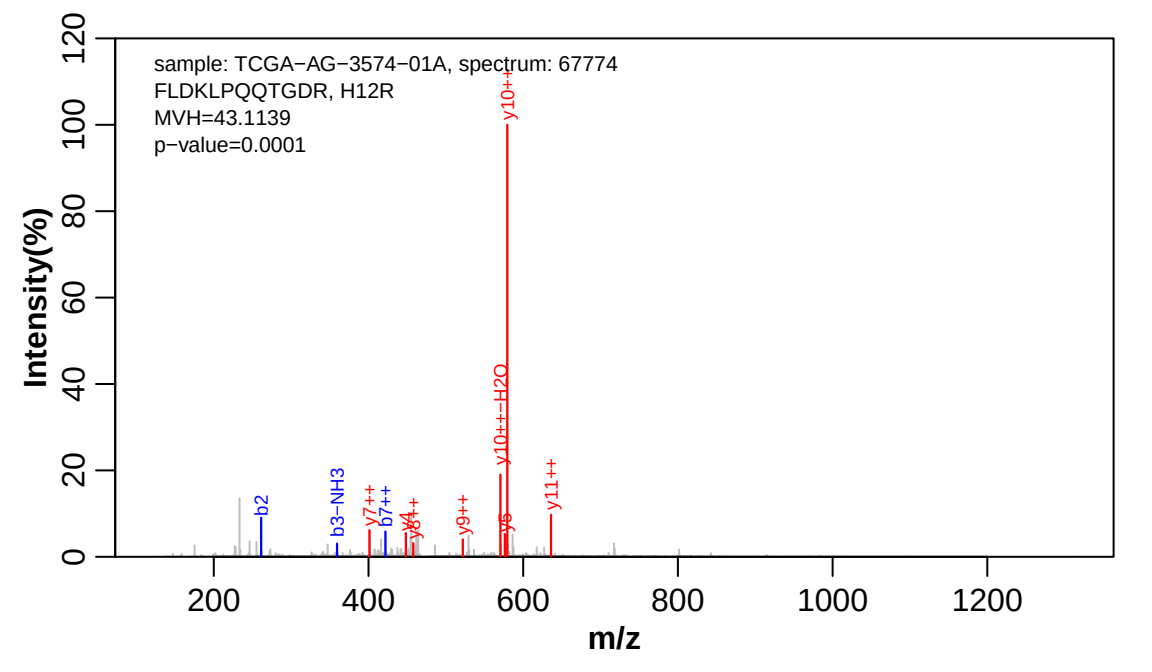

sample: TCGA−AG−3574−01A, spectrum: 50815
EALDVLDAVLK, G7D
MVH=50.7540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

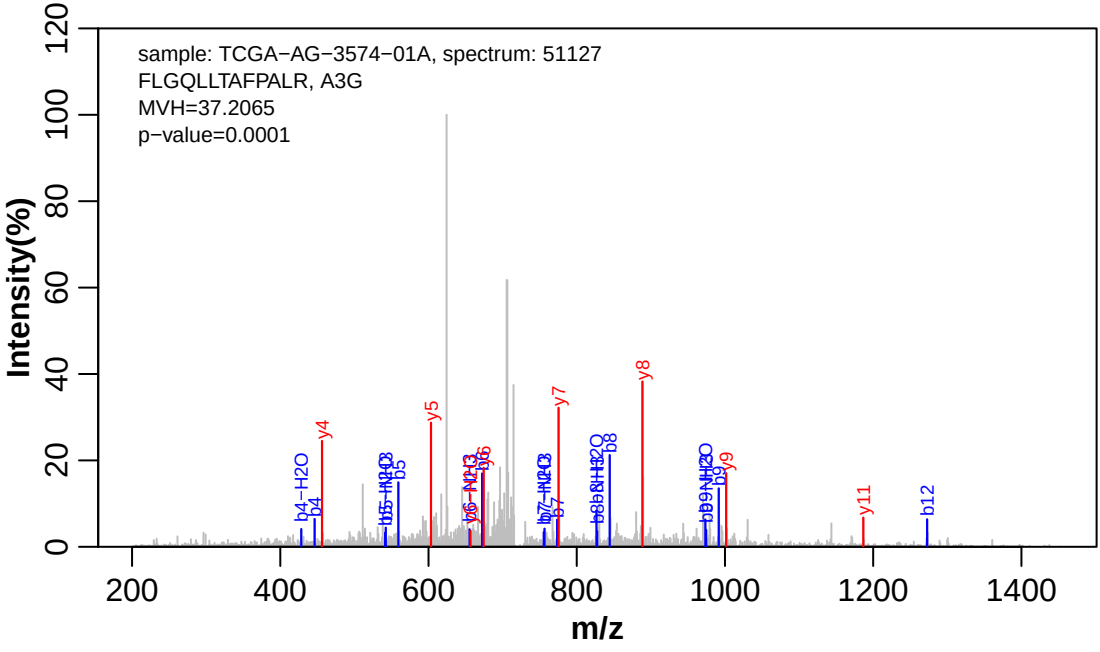

sample: TCGA−AG−3574−01A, spectrum: 83069
EATSVPHLYALGDVVEGRPELTPTALMAGR, I24T
MVH=54.6295
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

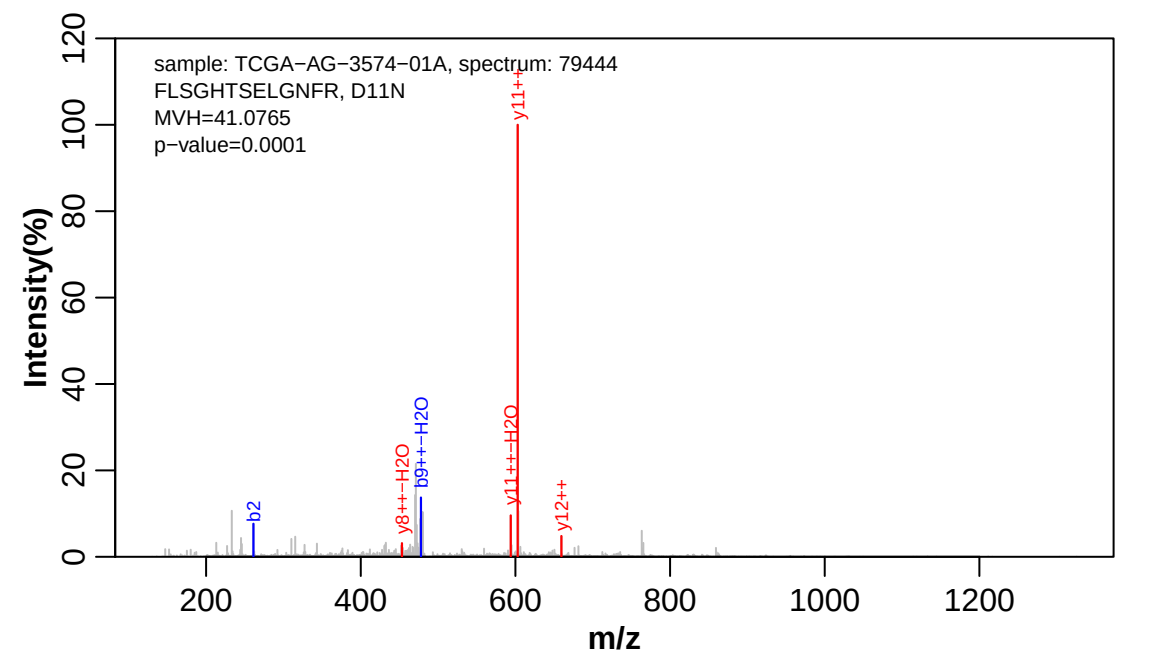

sample: TCGA−AG−3574−01A, spectrum: 145758
EQPGSPEWLQLDK, Q13K
MVH=26.4787
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y5
b7−H2O
y6
y8
y11

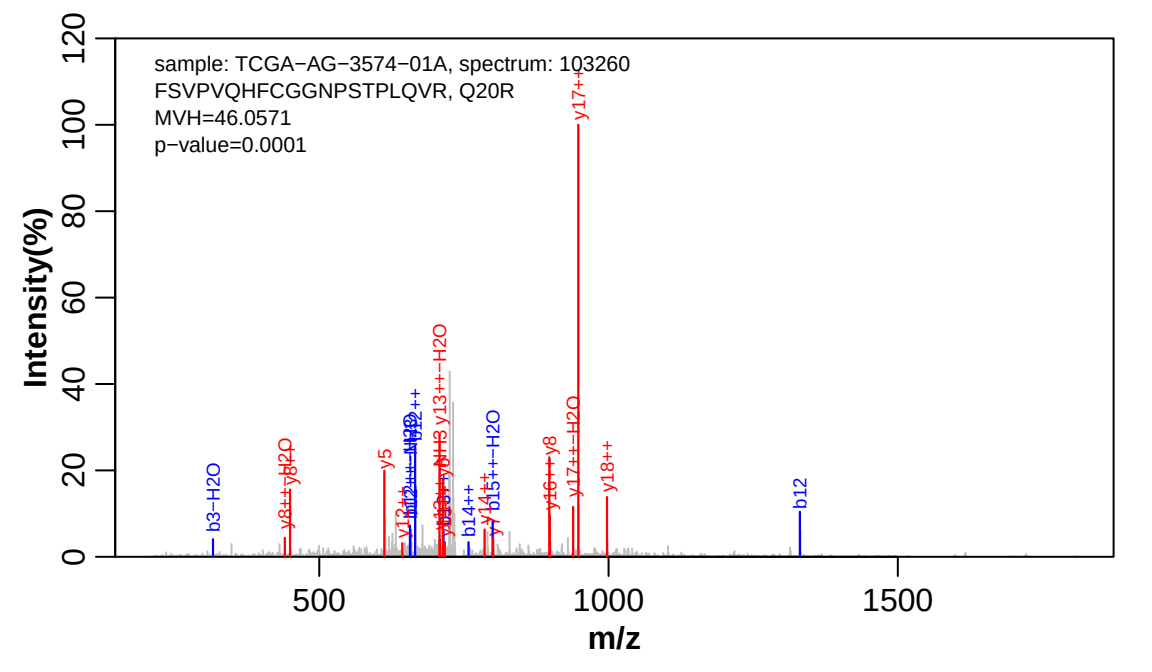

sample: TCGA−AG−3574−01A, spectrum: 61370
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=44.3652
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

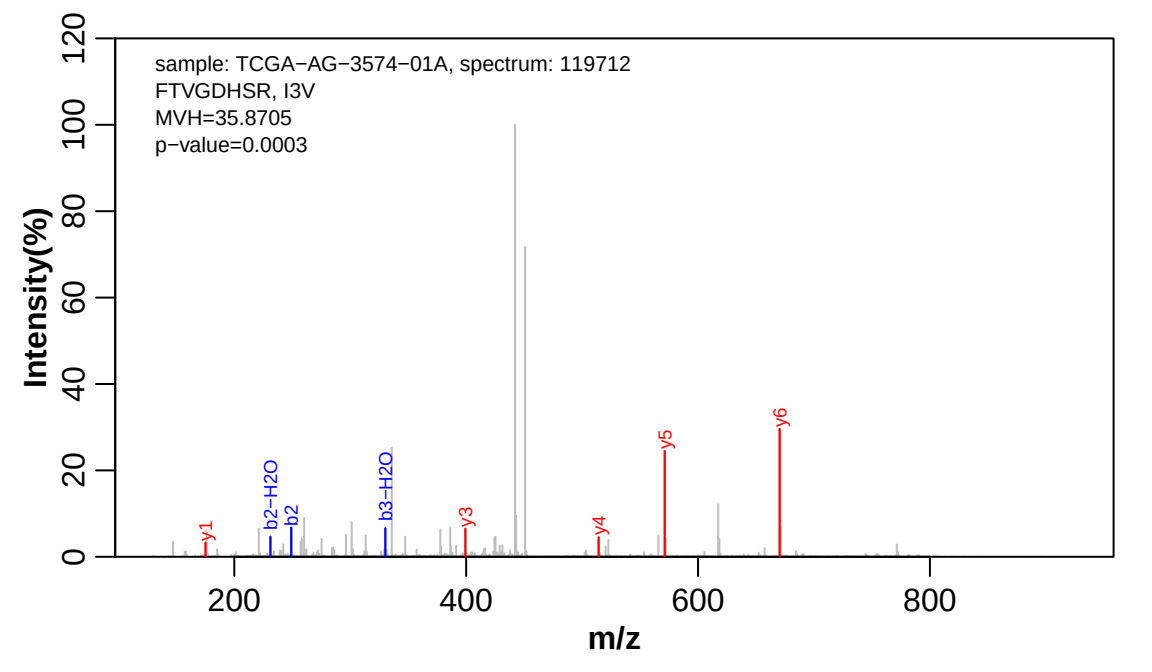

sample: TCGA−AG−3574−01A, spectrum: 7240
FFGSLPDSWAR, S11R
MVH=32.7271
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

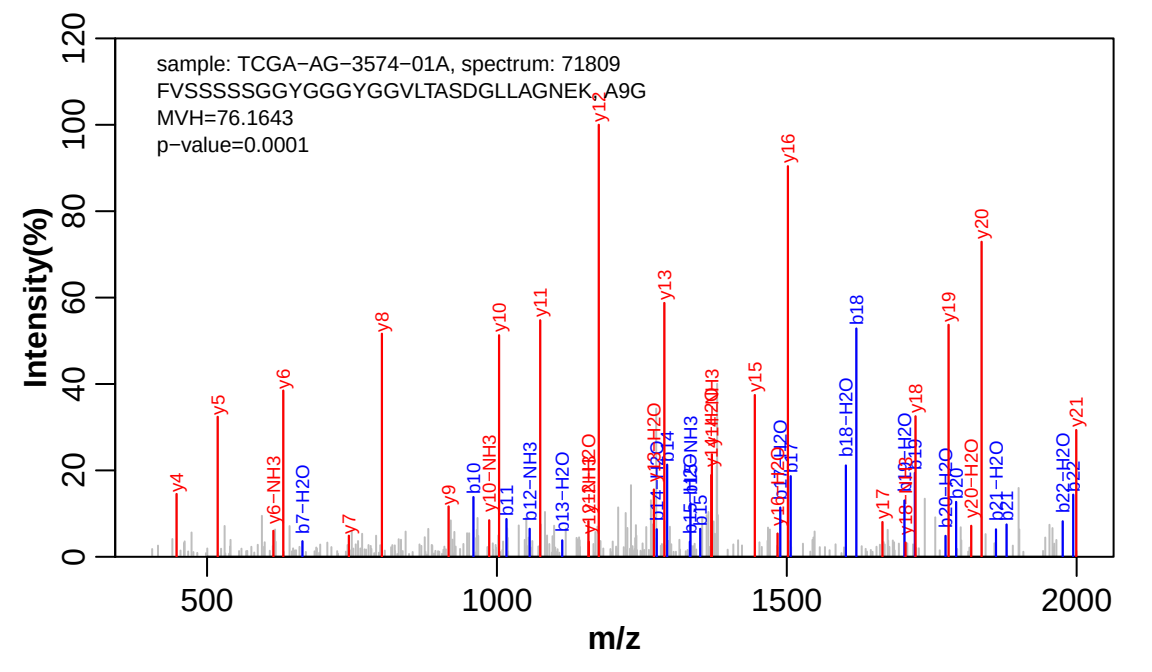

sample: TCGA−AG−3574−01A, spectrum: 67774
FLDKLPQQTGDR, H12R
MVH=43.1139
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3−NH3
y7++
b7++
y8++
y8+
y9++
y10++−H2O
y6
y10++
y11++

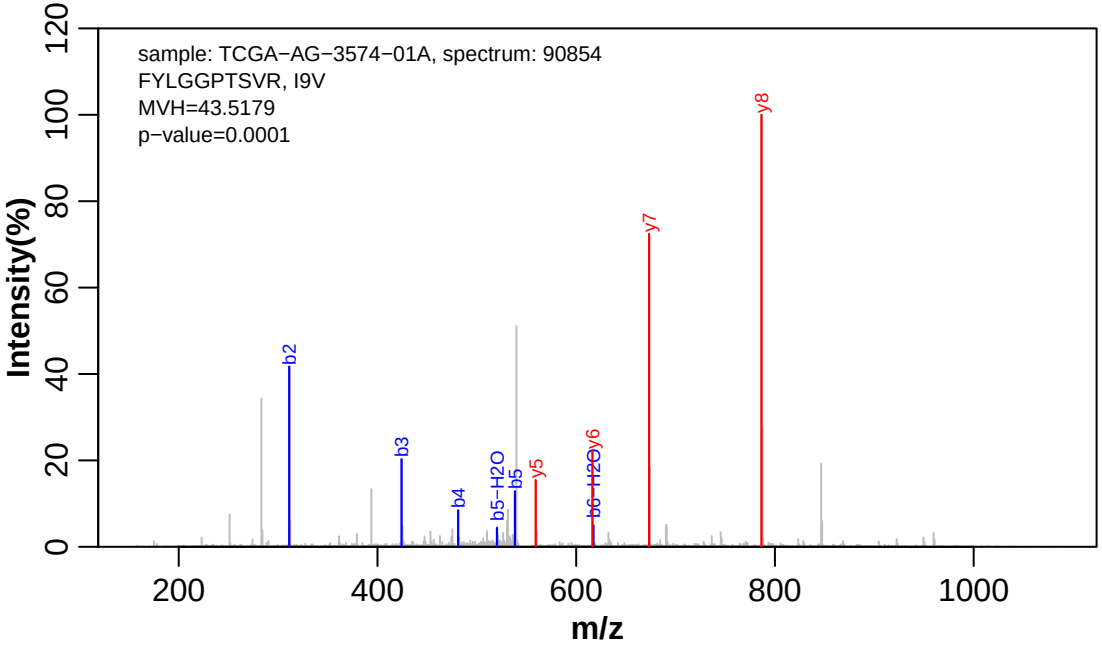

sample: TCGA−AG−3574−01A, spectrum: 51127
FLGQLLTAFPALR, A3G
MVH=37.2065
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4−H2O
b4
y4
b5
y5
y6
y7
b8
y8
y9
y11
b12

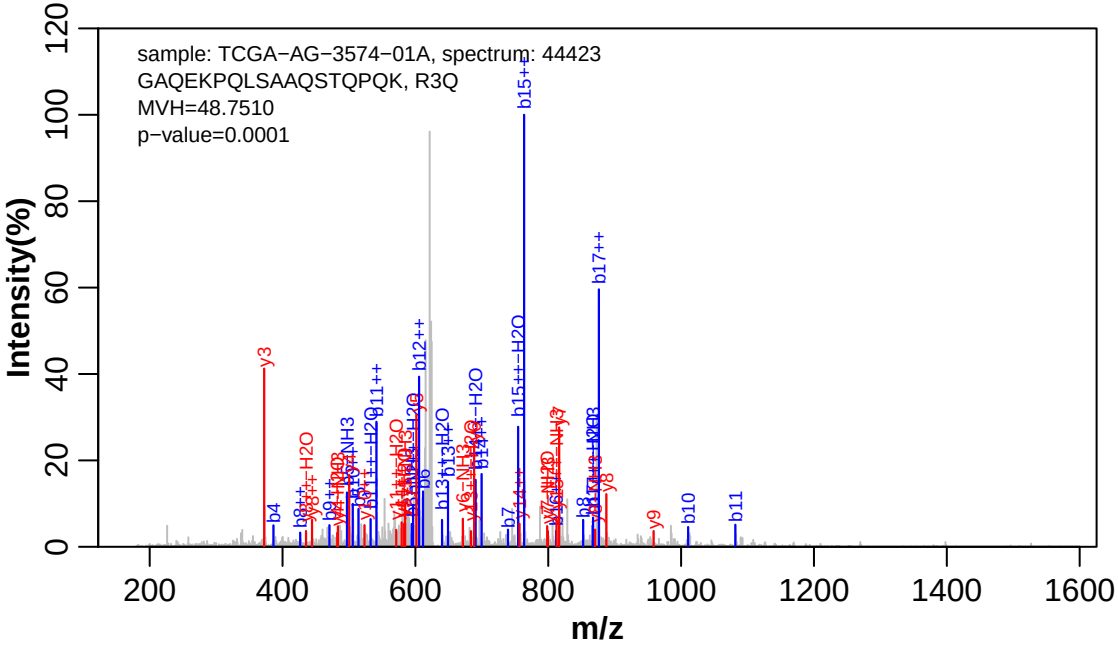

sample: TCGA−AG−3574−01A, spectrum: 79444
FLSGHTSELGNFR, D11N
MVH=41.0765
p−value=0.0001
y11++
y11++−H2O
b9++−H2O
y8++−H2O
b2
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

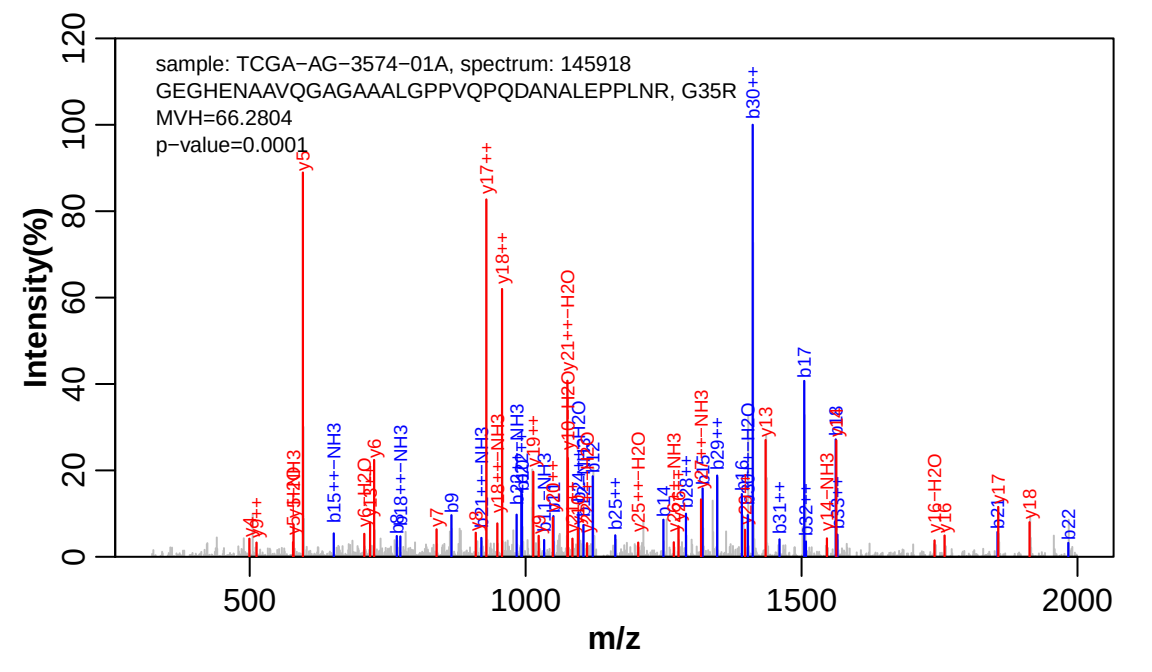

sample: TCGA−AG−3574−01A, spectrum: 103260
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=46.0571
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y8++
y8++−H2O
y5
y13++−H2O
b14++
y14++
y7
b15++−H2O
y16++
y8
y17++−H2O
y18++
b12
y17++

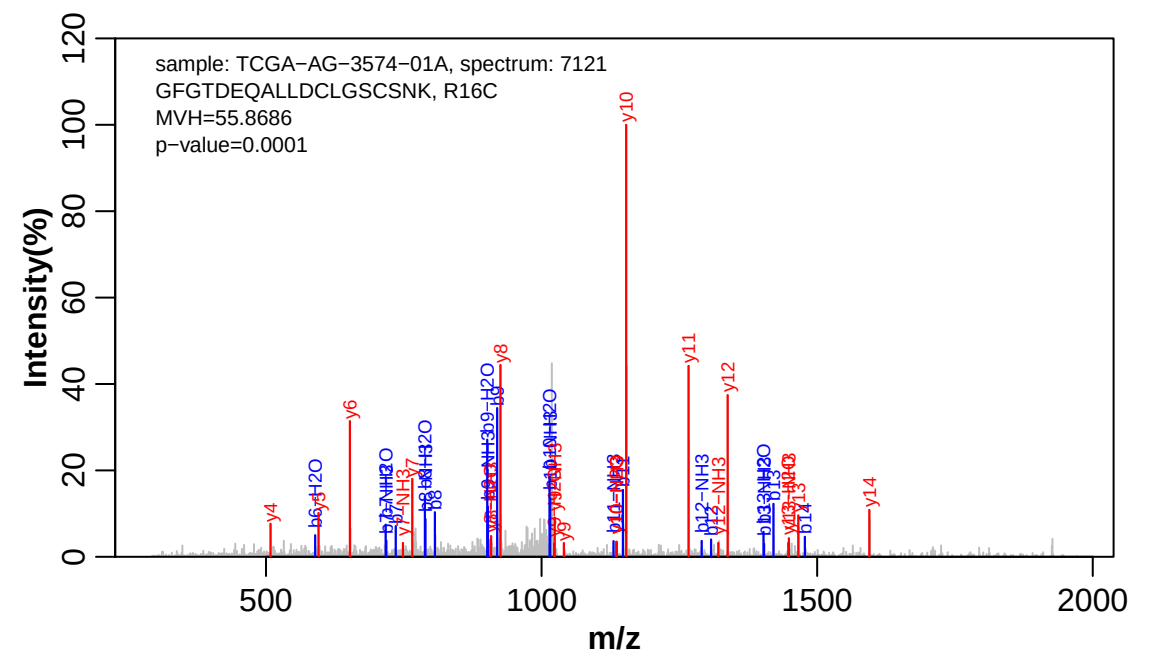

sample: TCGA−AG−3574−01A, spectrum: 119712
FTVGDHSR, I3V
MVH=35.8705
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
y5
y6

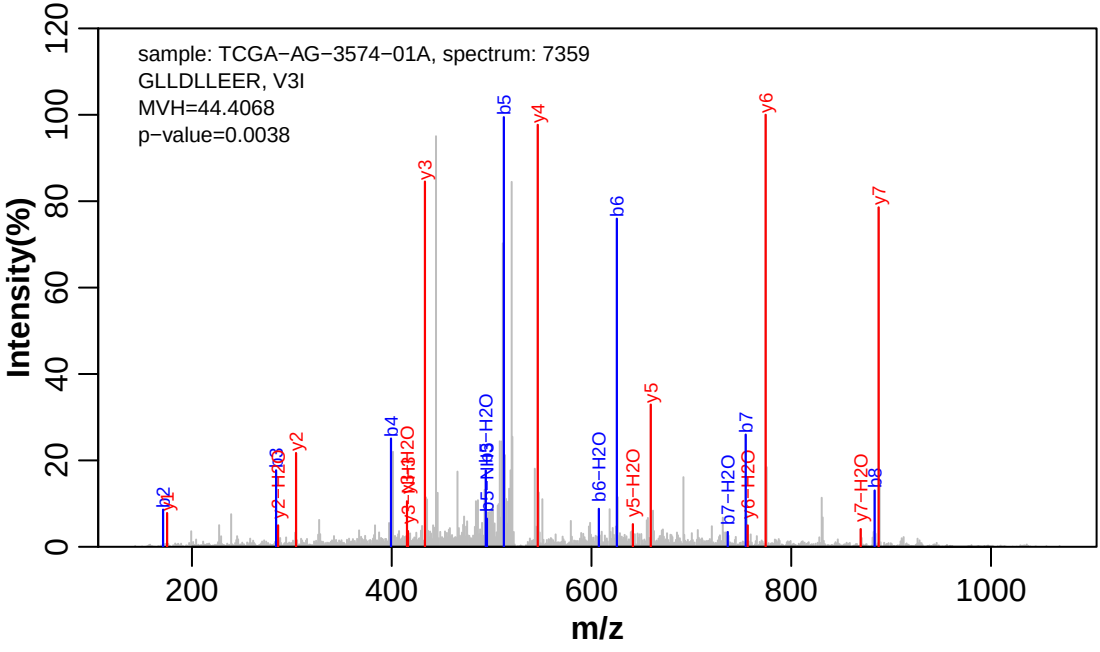

sample: TCGA−AG−3574−01A, spectrum: 71809
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK_A9G
MVH=76.1643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
y6−NH3
b7−H2O
y7
y8
y9
b10
y10−NH3
b11
y10
b12−NH3
y11
b13−H2O
y12
y13
y15
y16
b18
b18−H2O
y17
y18
y19
y20
y20−H2O
b20−H2O
b21−H2O
y21
b22−H2O

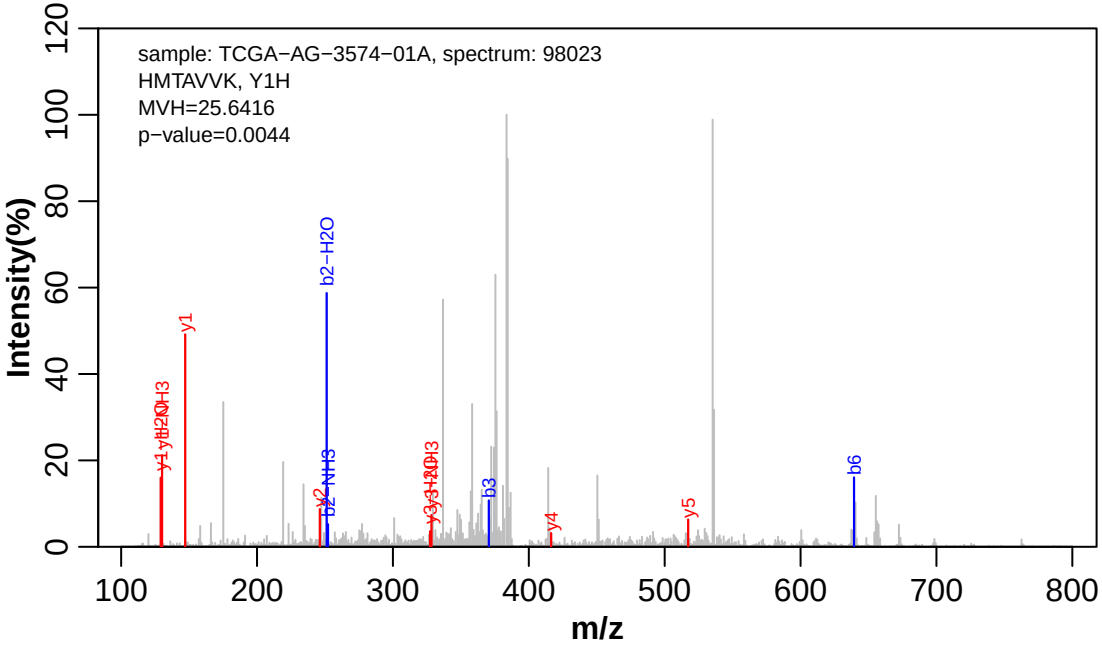

sample: TCGA−AG−3574−01A, spectrum: 90854
FYLGGPTSVR, I9V
MVH=43.5179
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5−H2O
b5
y5
b6−H2O
y6
y7
y8

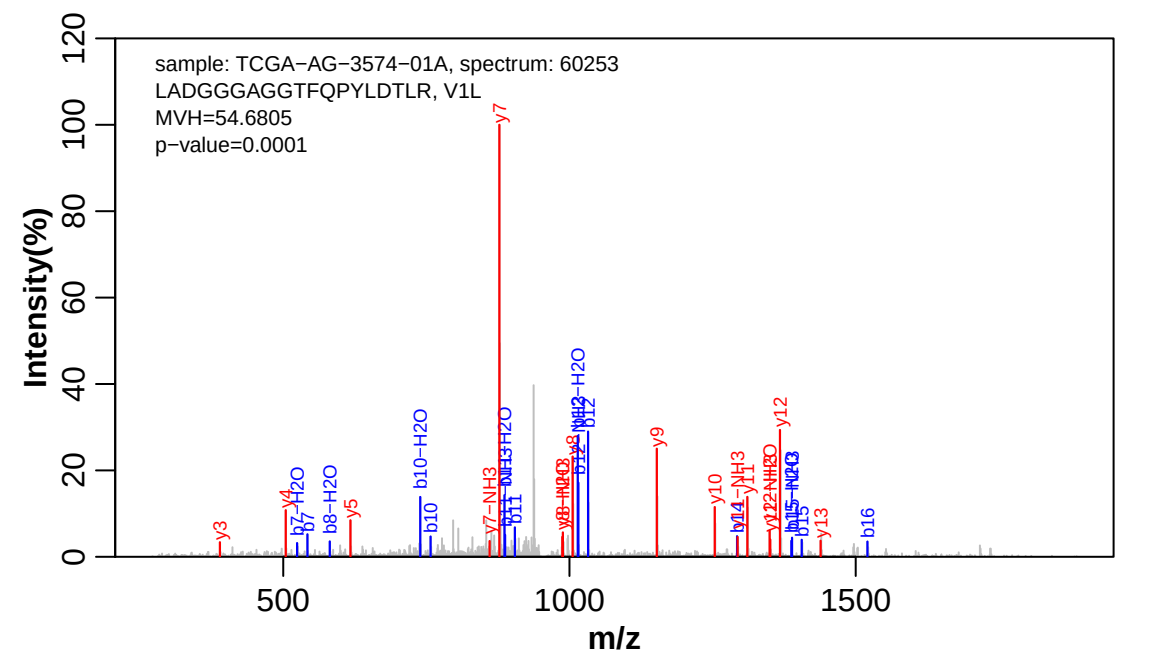

sample: TCGA−AG−3574−01A, spectrum: 44423
GAQEKPQLSAAQSTQPQK, R3Q
MVH=48.7510
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4
b15++
b17++
b15++−H2O
b12++
b11++
b13+−H2O
b7
b8
y8
y9
b10
b11

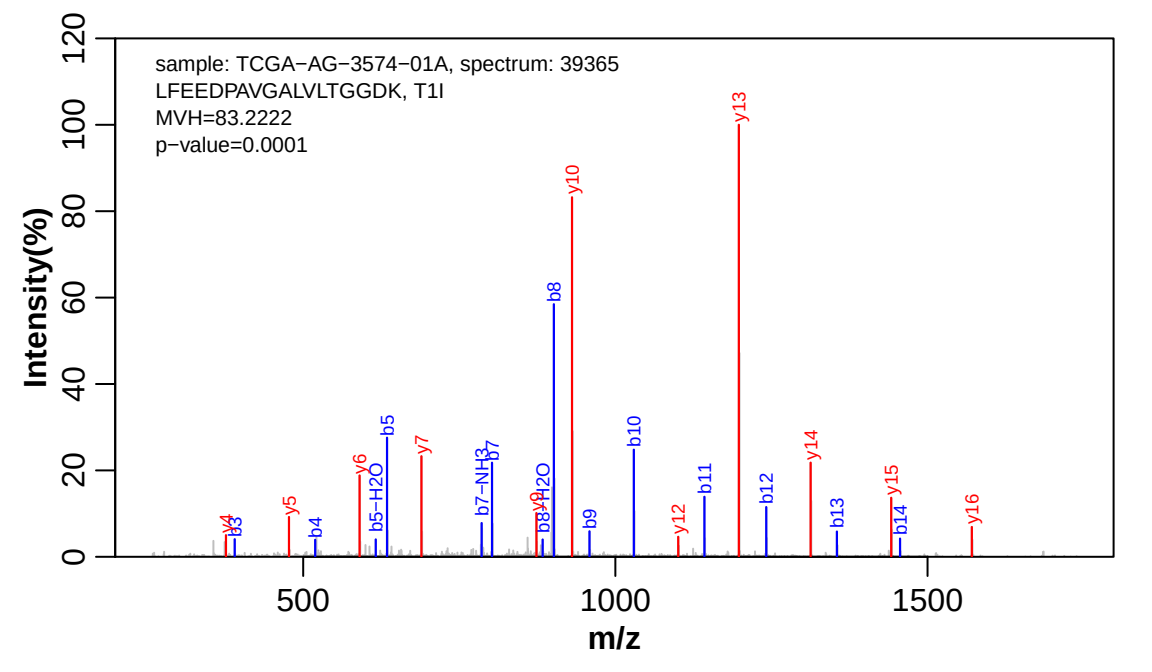

sample: TCGA−AG−3574−01A, spectrum: 145918
GEGHENAAVQGAGAAALGPPVQPQDANALEPPLNR, G35R
MVH=66.2804
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
b30++
y17++
y18++
b15++−NH3
y6
y6−H2O
b18++−NH3
y7
b9
y8
y21++−NH3
y18++−NH3
y19++
y20++
y10−H2O
y21++−H2O
b12
b25++
y25++−H2O
b14
b28++
y25++−NH3
b29++
y13
b17
b31++
b32++
y14−NH3
y16−H2O
y16
b2y17
y18
b22

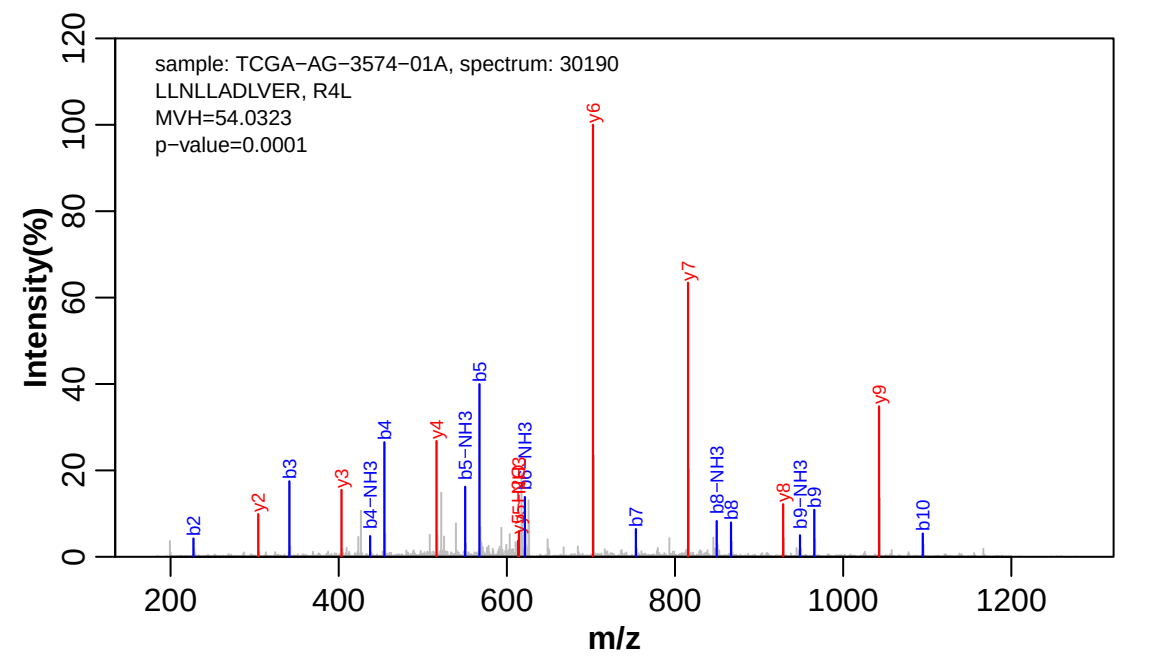

sample: TCGA−AG−3574−01A, spectrum: 7121
GFGTDEQALLDCLGSCSNK, R16C
MVH=55.8686
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y8
y6
y4
y14
b6−H2O
b12−NH3
y12−NH3
y11−NH3
y7−NH3
b13
b14
y13

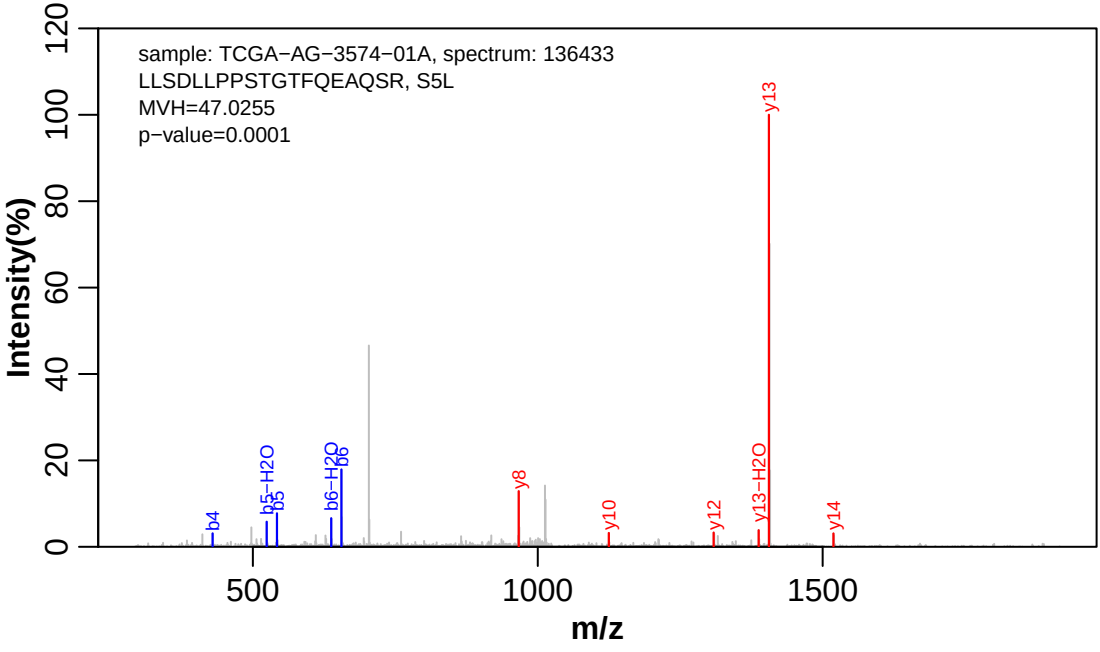

sample: TCGA−AG−3574−01A, spectrum: 7359
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
y2−H2O
b3
y3
b4
y3−NH3
y3−H2O
b5
b5−NH3
b5−H2O
y4
b6
b6−H2O
y5
y5−H2O
b7
b7−H2O
y6
y6−H2O
y7
y7−H2O
b8

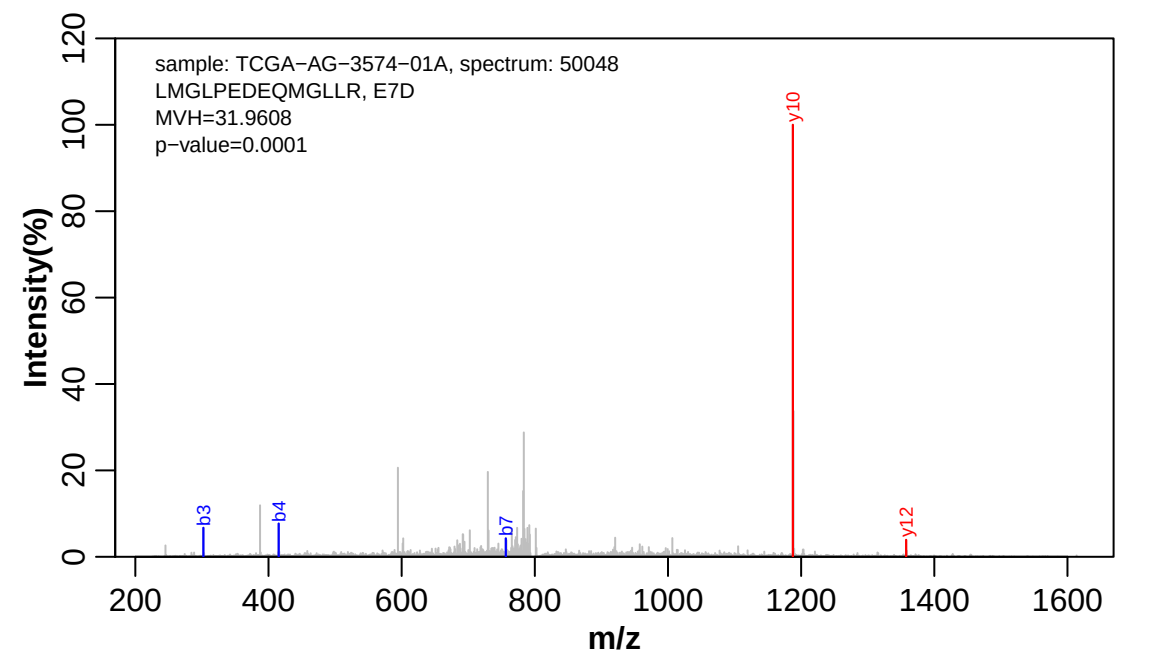

sample: TCGA−AG−3574−01A, spectrum: 98023
HMTAVVK, Y1H
MVH=25.6416
p−value=0.0044
Intensity(%)
m/z
y1
b2−H2O
b2−NH3
b3
y4
y5
b6

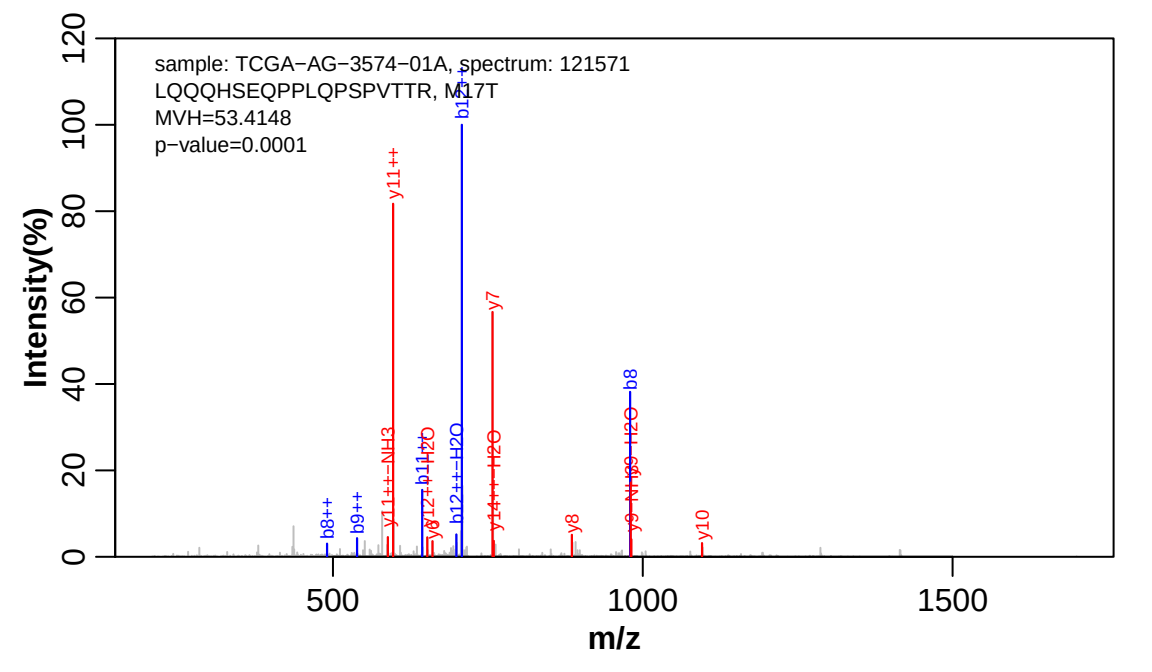

sample: TCGA−AG−3574−01A, spectrum: 60253
LADGGGAGGTFQPYLDTLR, V1L
MVH=54.6805
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b7
b8−H2O
y5
b10−H2O
b10
y7−NH3
b11−H2O
b11
b12−H2O
b12
y9
y10
y11−NH3
y11
y12
b15
y13
b16

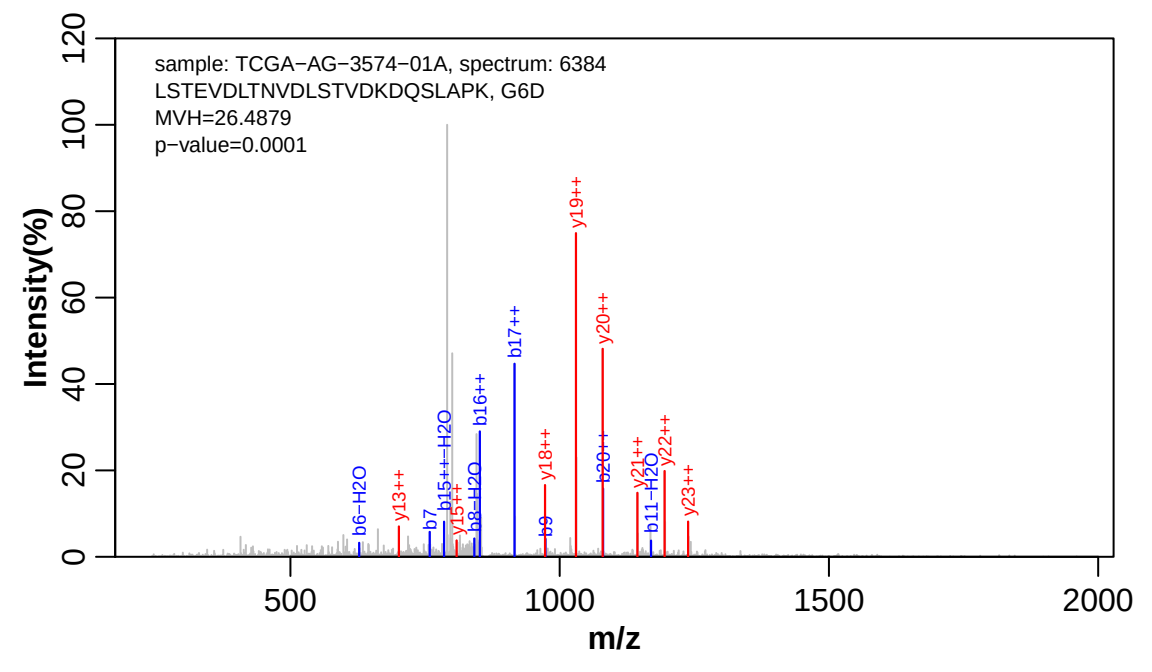

sample: TCGA−AG−3574−01A, spectrum: 39365
LFEEDPAVGALVLTGGDK, T1I
MVH=83.2222
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5−H2O
b5
y7
b7−NH3
b7
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

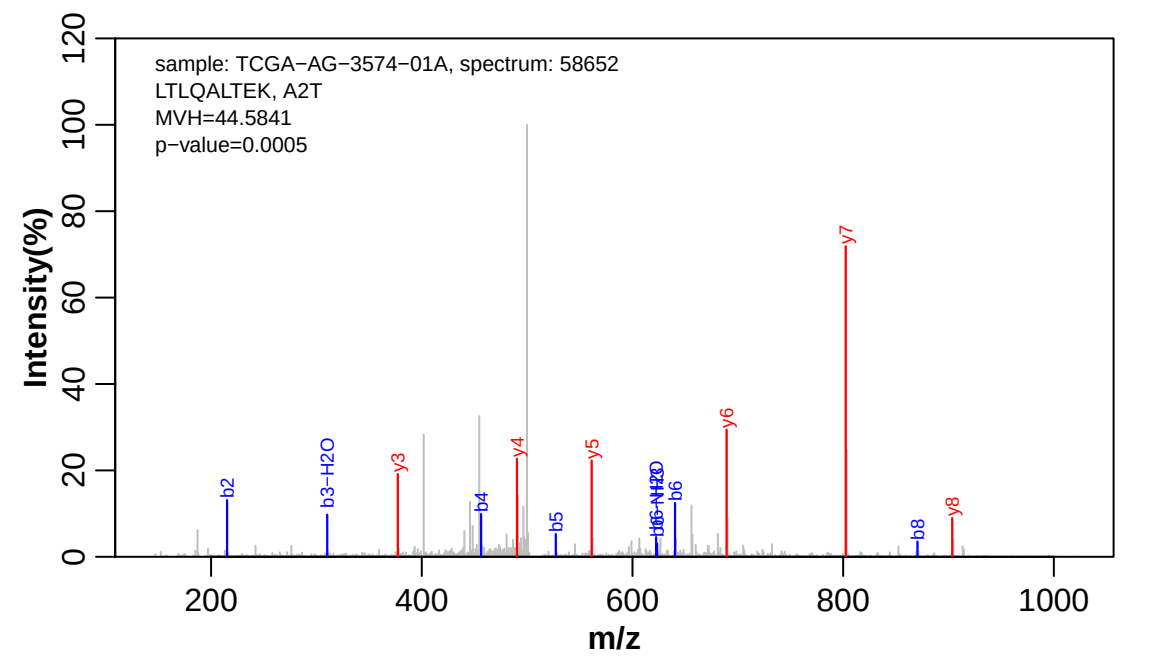

sample: TCGA−AG−3574−01A, spectrum: 30190
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y4
y3
y2
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
b9−NH3
b9
b10

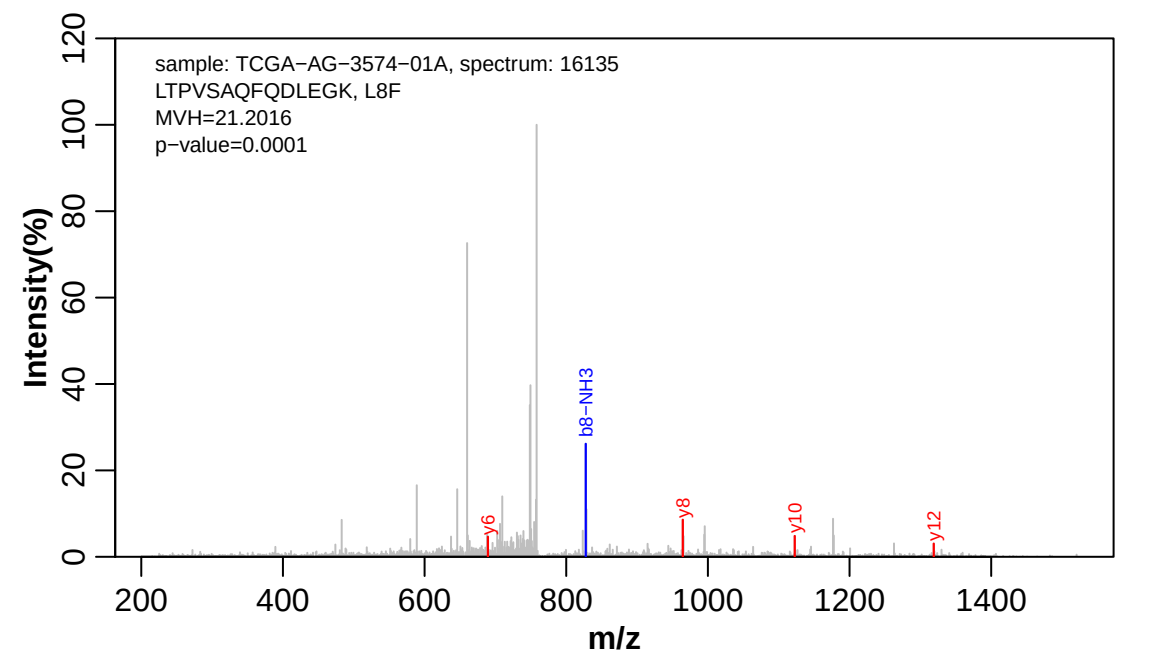

sample: TCGA−AG−3574−01A, spectrum: 136433
LLSDLLPPSTGTFQEAQSR, S5L
MVH=47.0255
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−H2O
b5
b6−H2O
b6
y8
y10
y12
y13−H2O
y13
y14

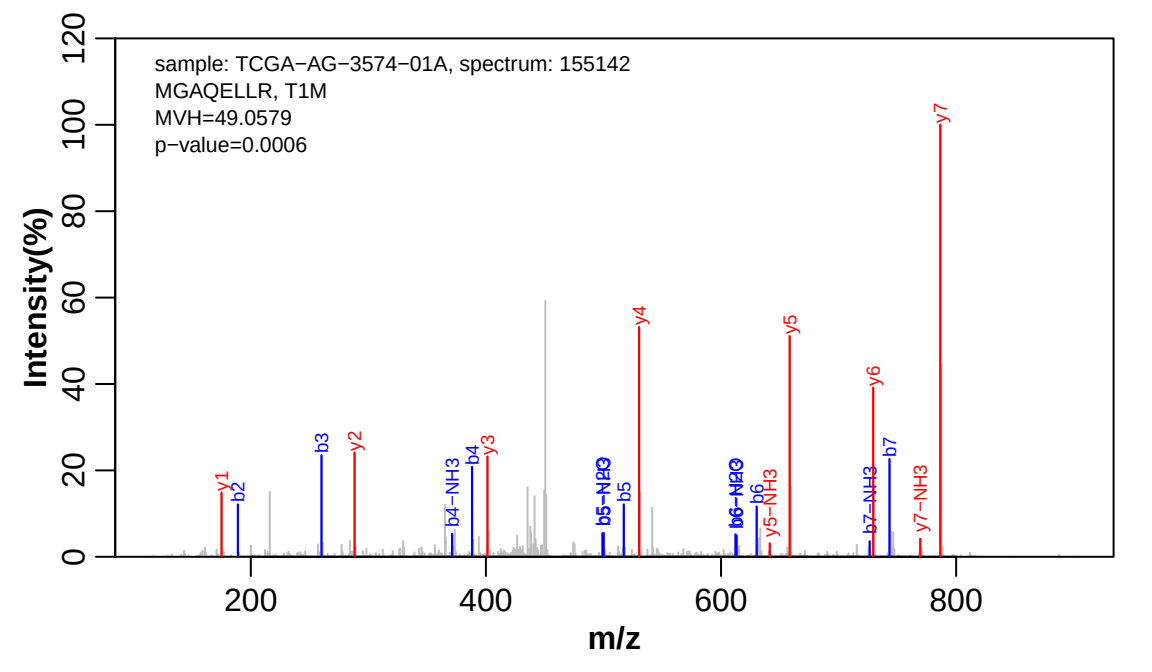

sample: TCGA−AG−3574−01A, spectrum: 50048
LMGLPEDEQMGLLR, E7D
MVH=31.9608
p−value=0.0001
y10
b3
b4
b7
y12
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

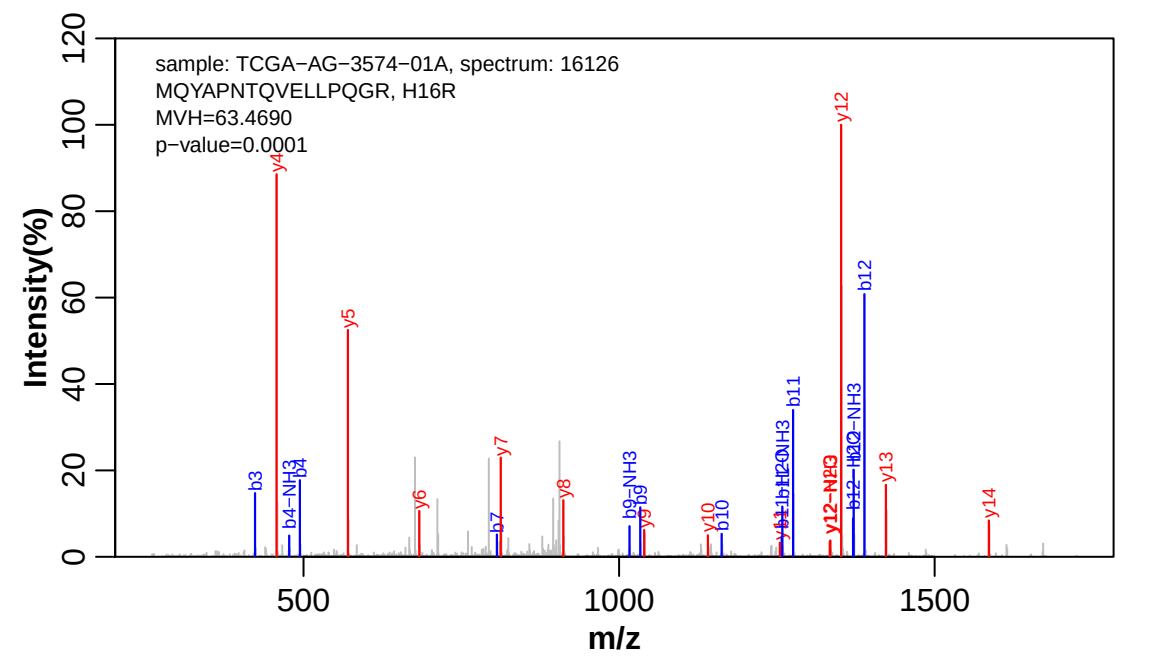

sample: TCGA−AG−3574−01A, spectrum: 121571
LQQQHSEQPPLQPSPVTTR, M17T
MVH=53.4148
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++
b9++
y11++−NH3
y12++
b11++
y8
b12++−H2O
b12++
y11++
y14++−H2O
y7
y8
y9−NH3−H2O
b8
y10

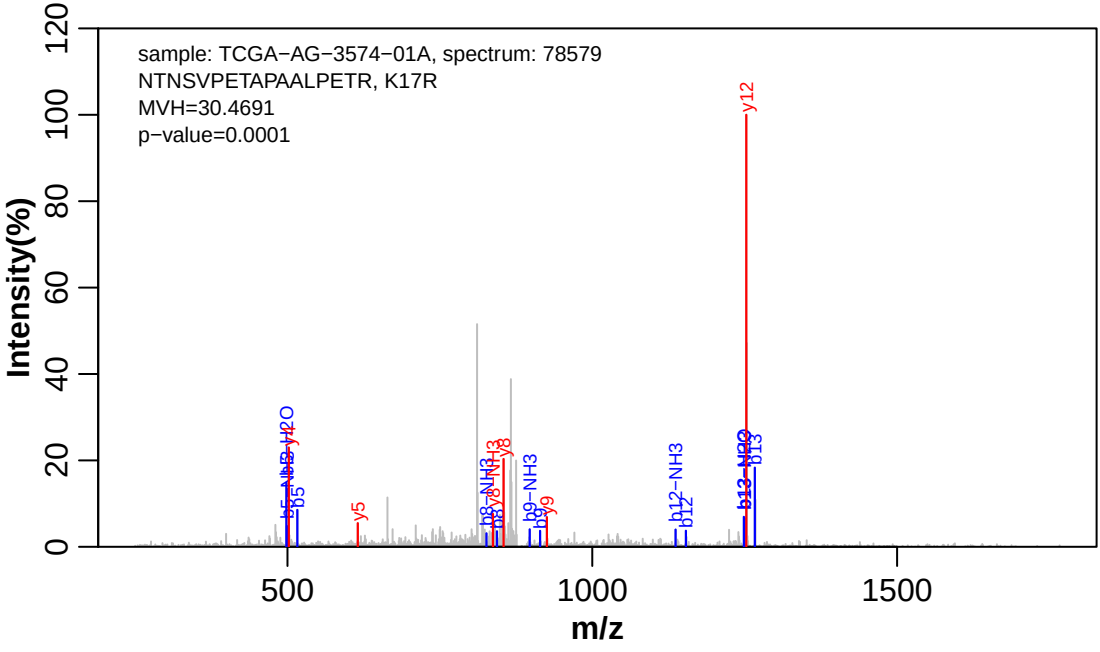

sample: TCGA−AG−3574−01A, spectrum: 6384
LSTEVDLTNVDLSTVDKDQSLAPK, G6D
MVH=26.4879
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b6−H2O
y13++
b7
b15++−H2O
y15++
b8−H2O
b16++
b17++
b9
y18++
y19++
b20++
y20++
y21++
b11−H2O
y22++
y23++

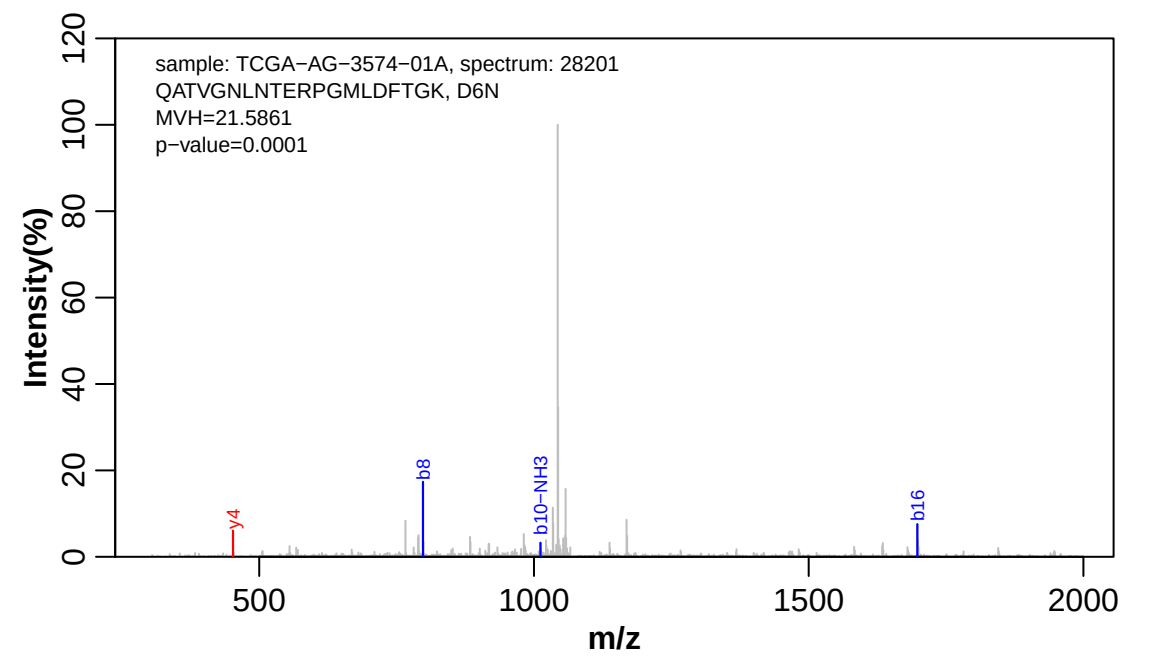

sample: TCGA−AG−3574−01A, spectrum: 58652
LTLQALTEK, A2T
MVH=44.5841
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
y3
b4
y4
b5
y5
y6
b6
y7
b8
y8

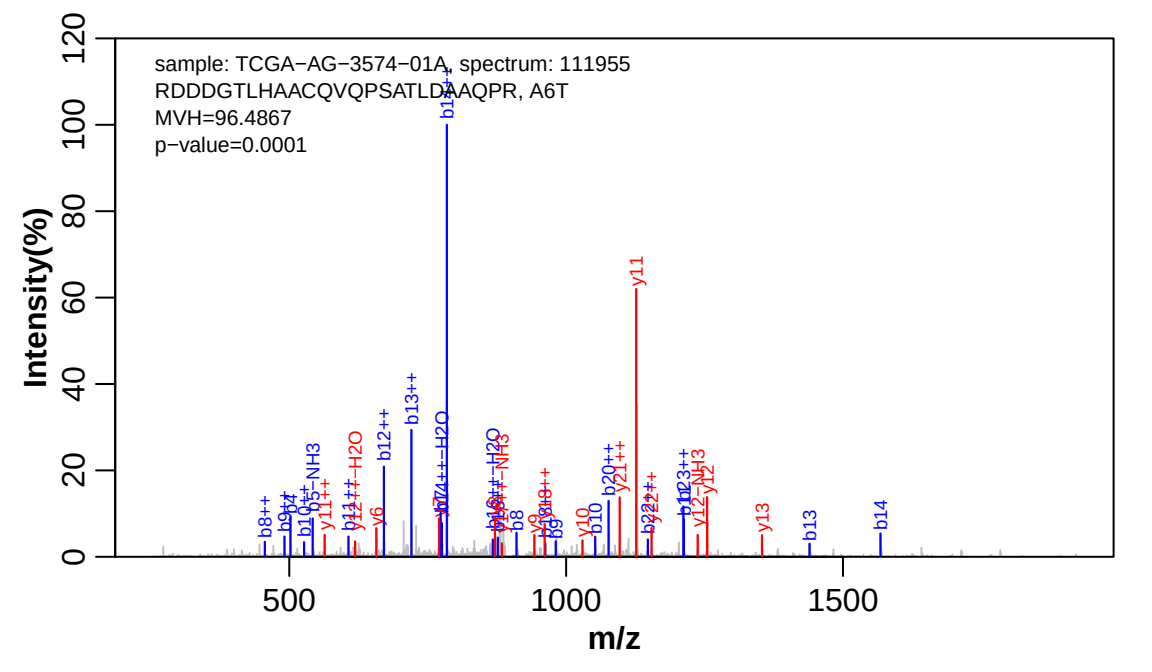

sample: TCGA−AG−3574−01A, spectrum: 16135
LTPVSAQFQDLEGK, L8F
MVH=21.2016
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b8−NH3
y6
y8
y10
y12

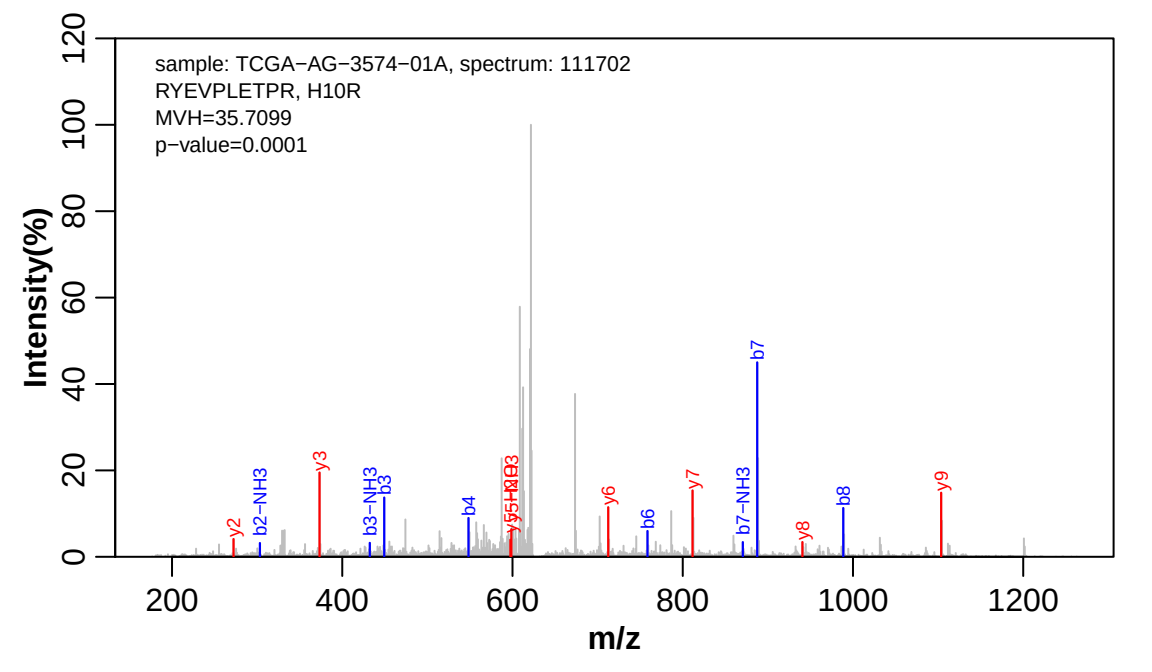

sample: TCGA−AG−3574−01A, spectrum: 155142
MGAQELLR, T1M
MVH=49.0579
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
b3
y2
b4−NH3
b4
y3
b5−NH3
b5
y4
b6−NH3
b6
y5−NH3
y5
b7−NH3
y6
b7
y7−NH3
y7

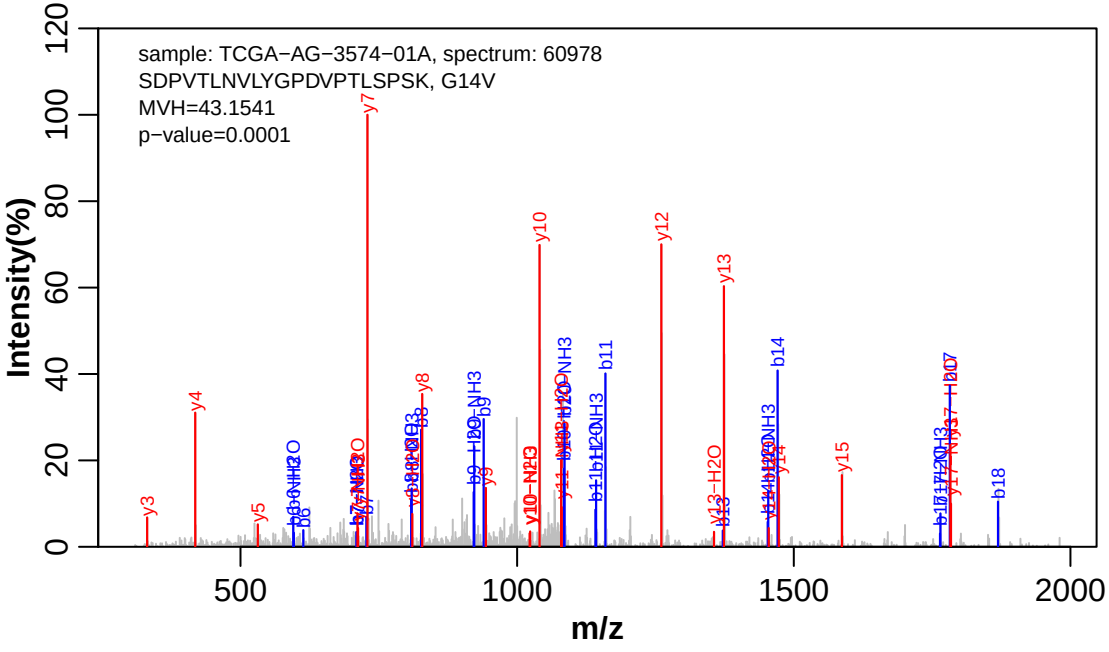

sample: TCGA−AG−3574−01A, spectrum: 16126
MQYAPNTQVELLPQGR, H16R
MVH=63.4690
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y10
y12
y13
y14
b3
b4−NH3
b4
b7
b9−NH3
b9
b10
b11
b12
b12−NH3

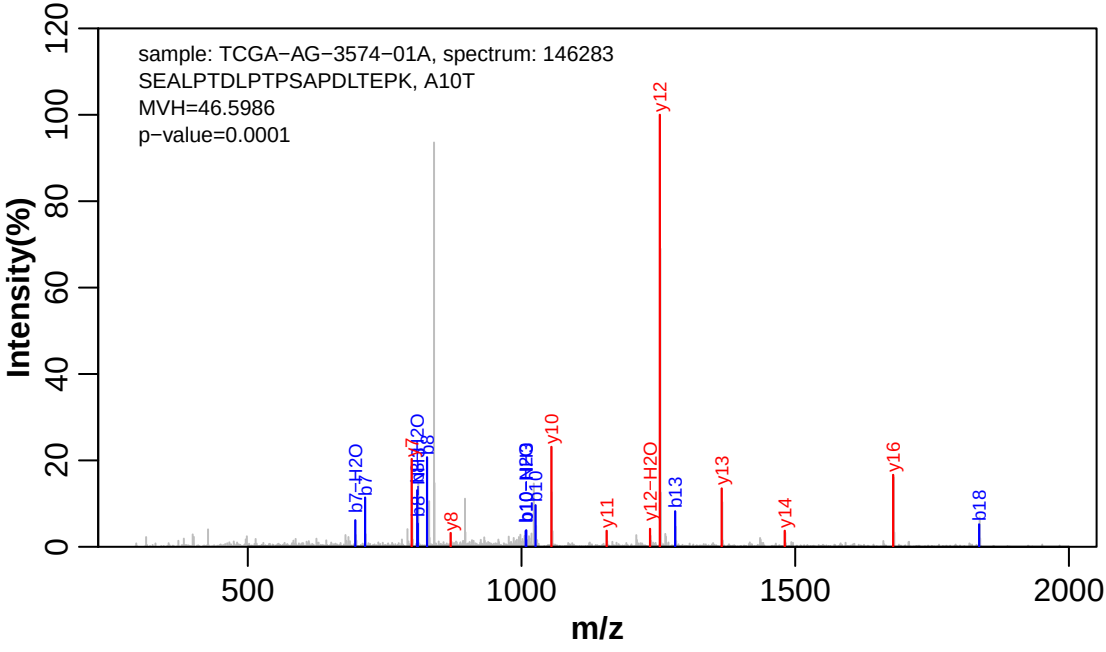

sample: TCGA−AG−3574−01A, spectrum: 78579
NTNSVPETAPAALPETR, K17R
MVH=30.4691
p−value=0.0001
Intensity(%)
m/z
y12
y5
y8
y9
b5
b8−NH3
b9−NH3
b12−NH3
b13

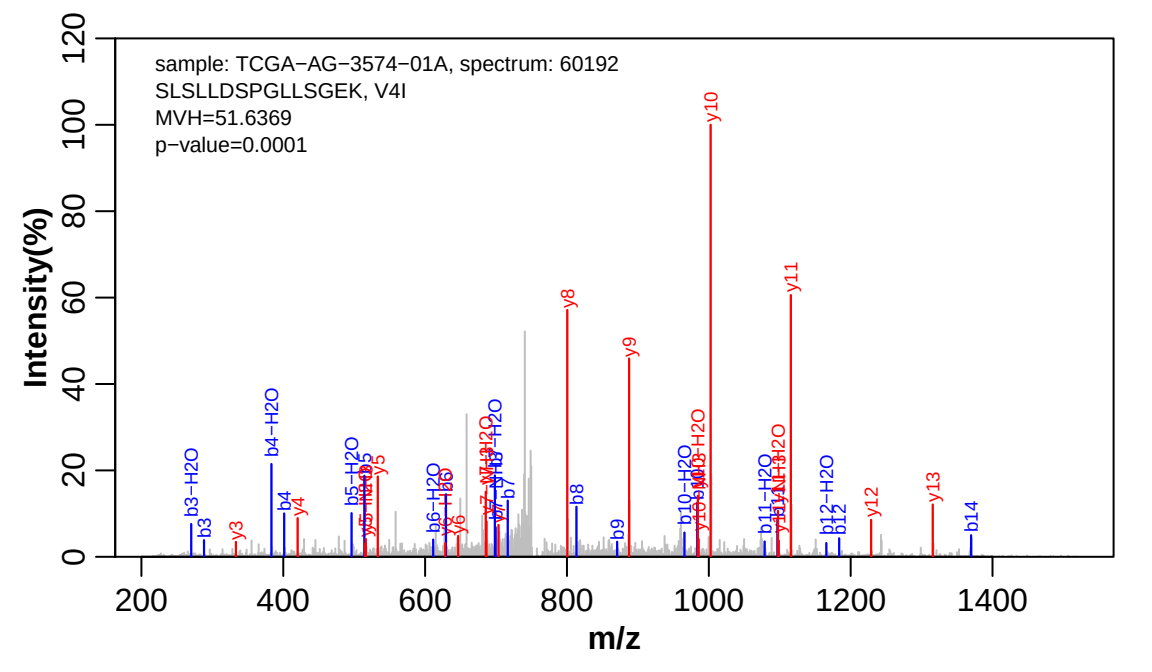

sample: TCGA−AG−3574−01A, spectrum: 28201
QATVGNLNTERPGMLDFTGK, D6N
MVH=21.5861
p−value=0.0001
y4
b8
b10−NH3
b16
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

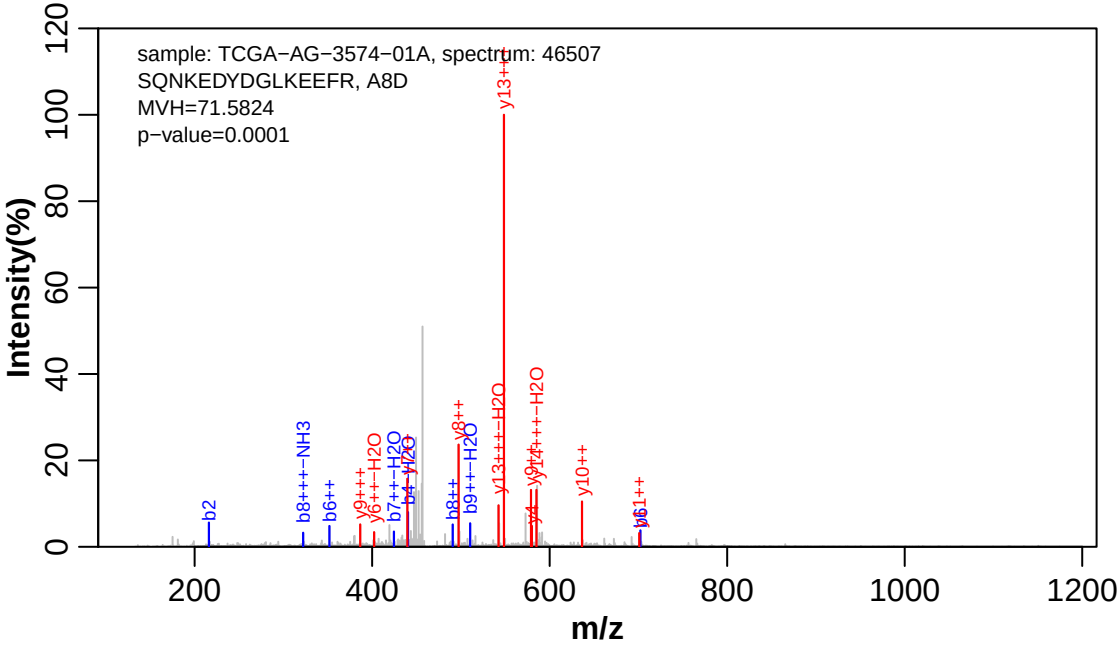

sample: TCGA−AG−3574−01A, spectrum: 111955
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=96.4867
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b8++
b9++
b10++
y11++
b5−NH3
b11++−H2O
y6
b12++
b13++
y7++−H2O
b14++
b16++−H2O
b16++−NH3
b8
y8
b9
y10
b10
b20++
y21++
y11
b22++
b23++
y12
y12−NH3
y13
b13
b14

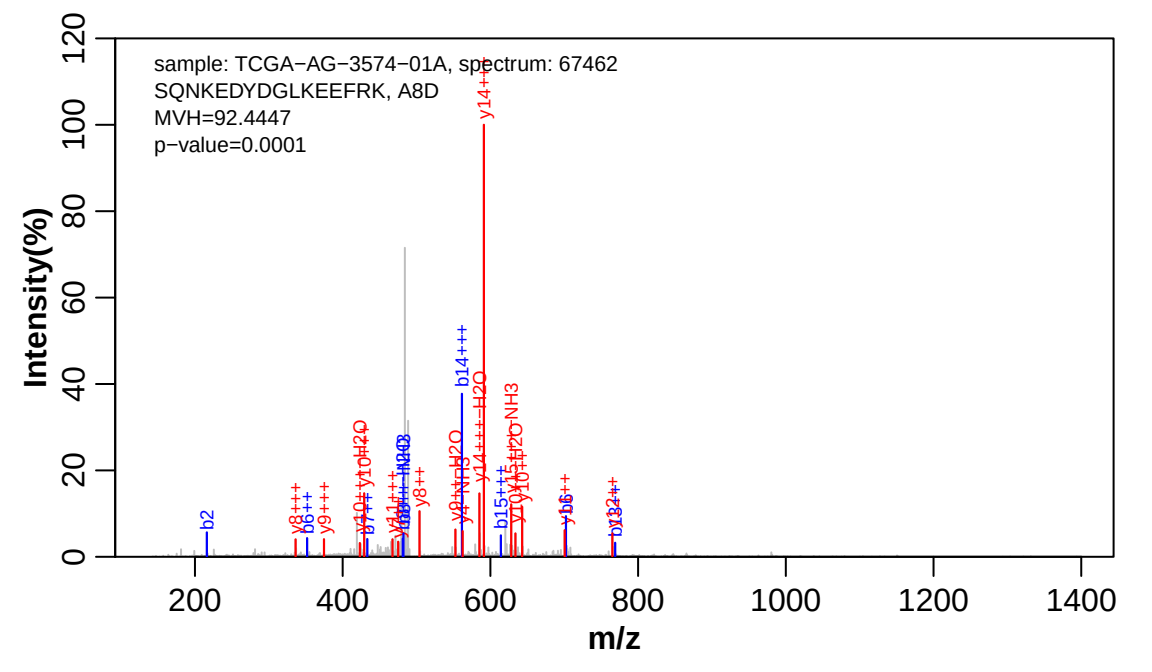

sample: TCGA−AG−3574−01A, spectrum: 111702
RYEVPLETPR, H10R
MVH=35.7099
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b2−NH3
y3
b3−NH3
b3
b4
y5−NH3
y5
y6
b6
y7
b7−NH3
b7
y8
b8
y9

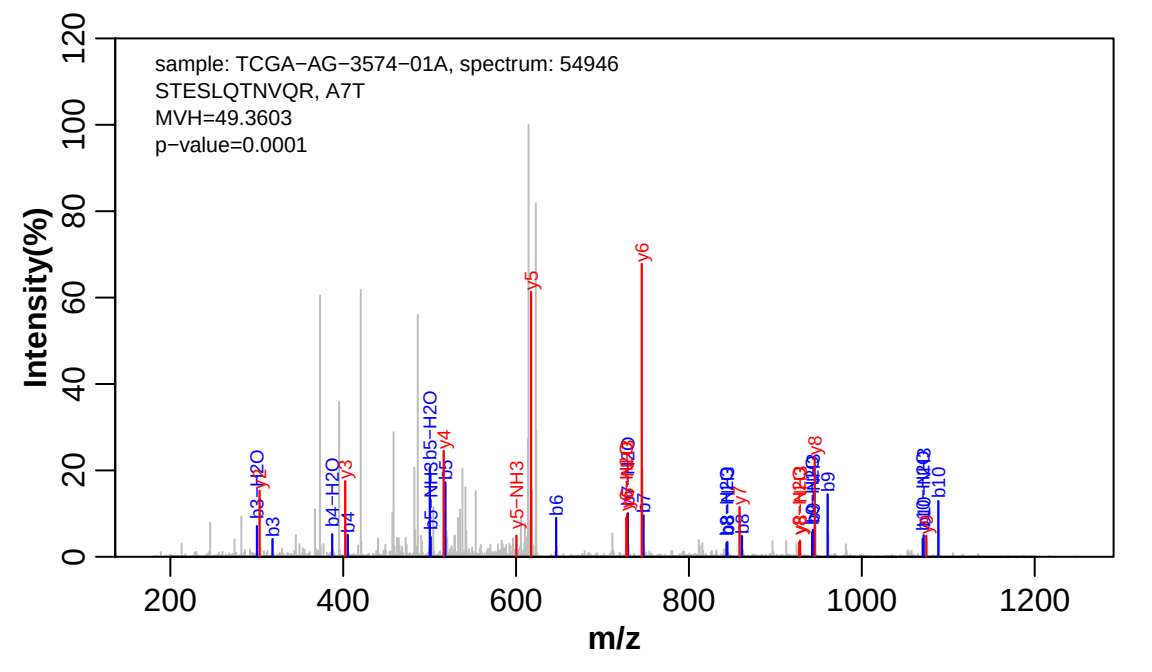

sample: TCGA−AG−3574−01A, spectrum: 60978
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=43.1541
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y8
y10
y12
y13
y14
y15
b11
b14
b18

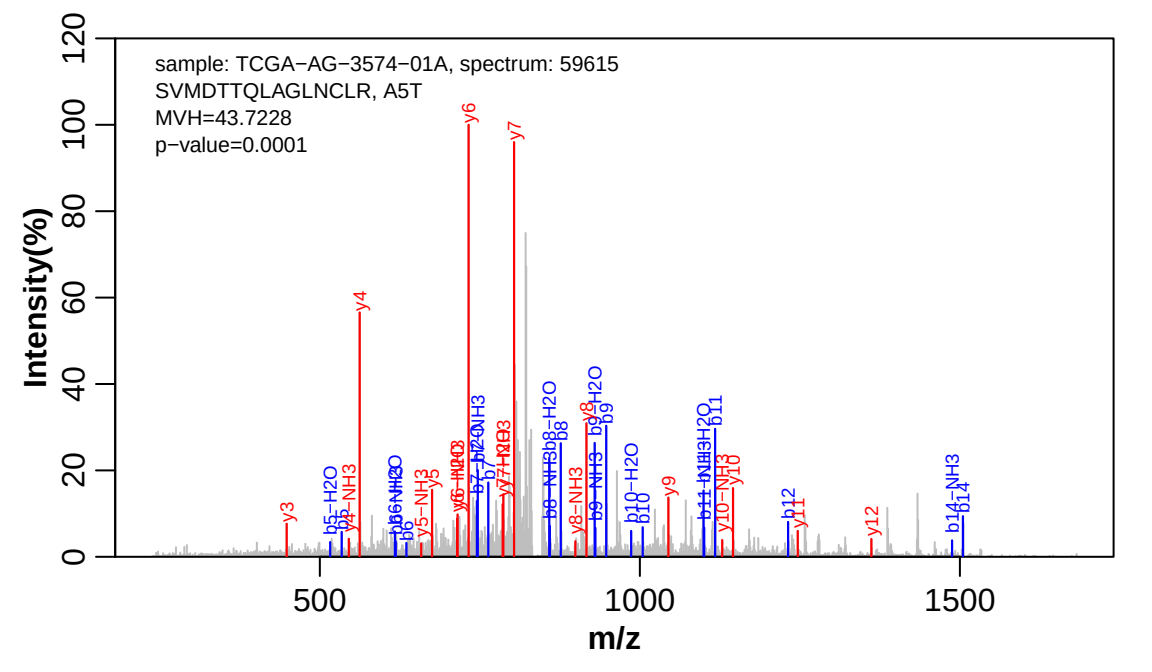

sample: TCGA−AG−3574−01A, spectrum: 146283
SEALPTDLPTPSAPDLTEPK, A10T
MVH=46.5986
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
b7−H2O
b7
y8
y10
y11
y12−H2O
b13
y13
y14
y16
b18

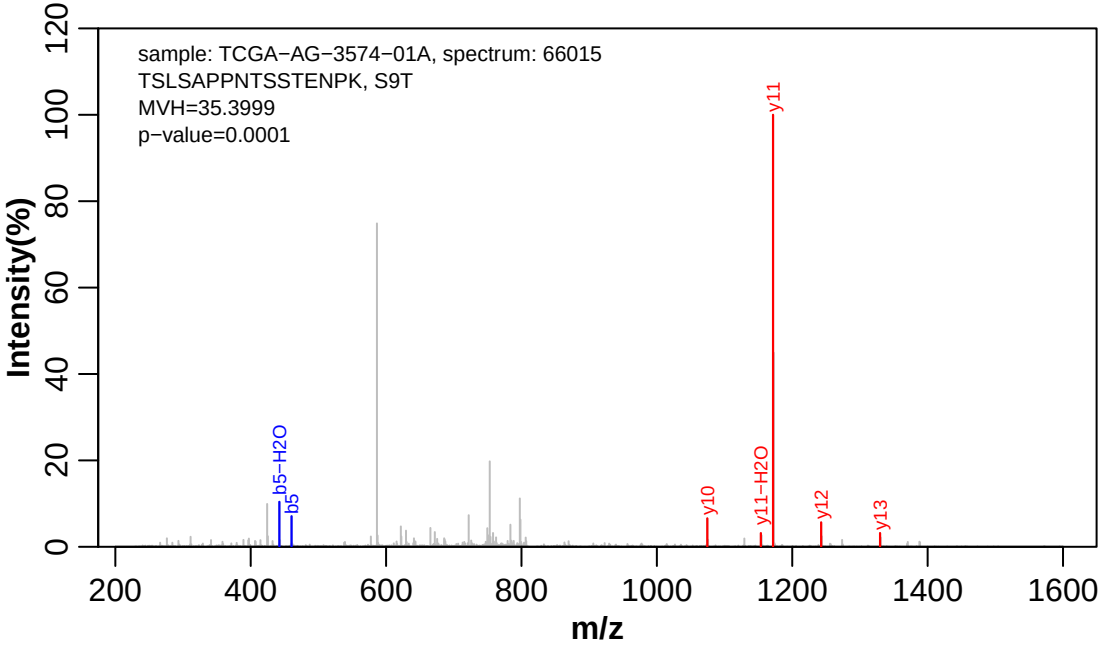

sample: TCGA−AG−3574−01A, spectrum: 60192
SLSLLDSPGLLSGEK, V4I
MVH=51.6369
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y8
y9
b4−H2O
b3−H2O
b5−H2O
b6−H2O
b10−H2O
b11−H2O
b12−H2O
b3
y3
b4
y4
y5
b8
y6
b7
b9
y12
y13
b14

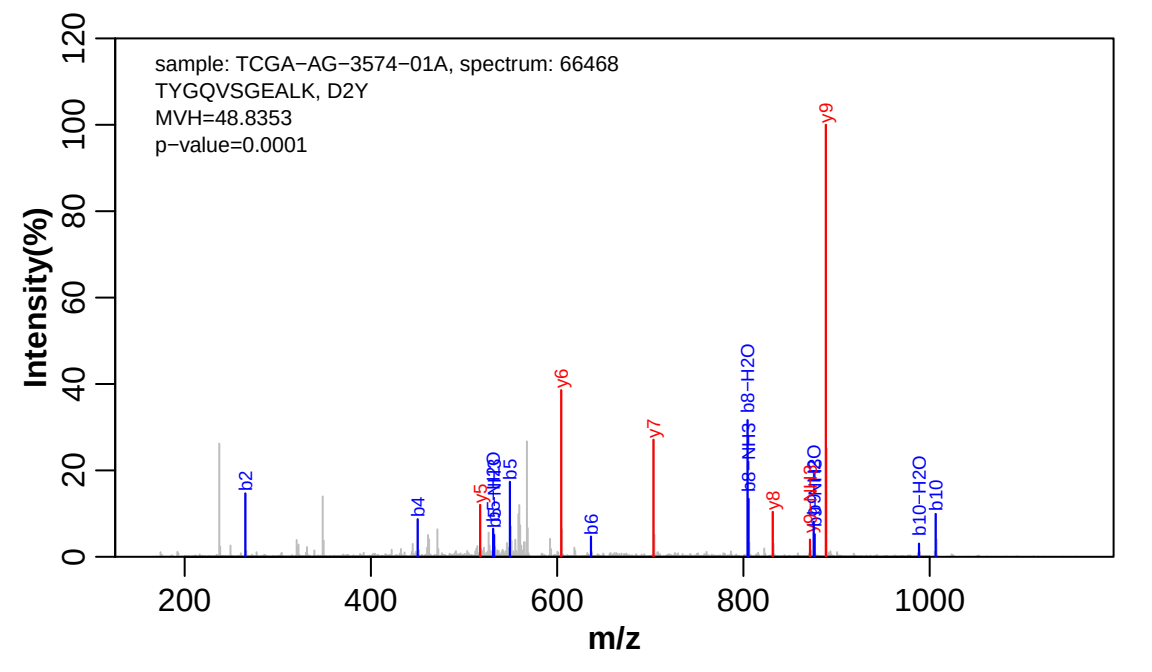

sample: TCGA−AG−3574−01A, spectrum: 46507
SQNKEDYDGLKEEFR, A8D
MVH=71.5824
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b8+++−NH3
b6++
y9+++
y6++−H2O
b7++−H2O
b4−H2O
b8++
y8++
b9++−H2O
y13+++−H2O
y13+++
y4
y9++−H2O
y10++
b61++

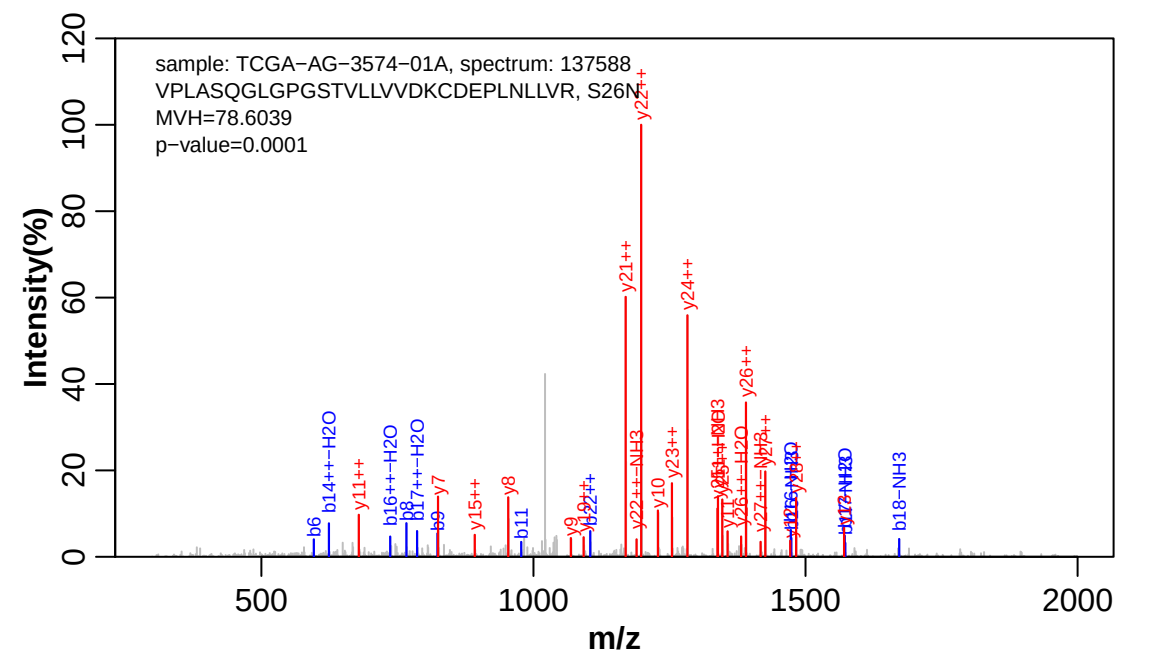

sample: TCGA−AG−3574−01A, spectrum: 67462
SQNKEDYDGLKEEFRK, A8D
MVH=92.4447
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y14++
b14+++
y14+++−H2O
y14+++−NH3
y8++
y9+++
b15+++
y16++
b132++

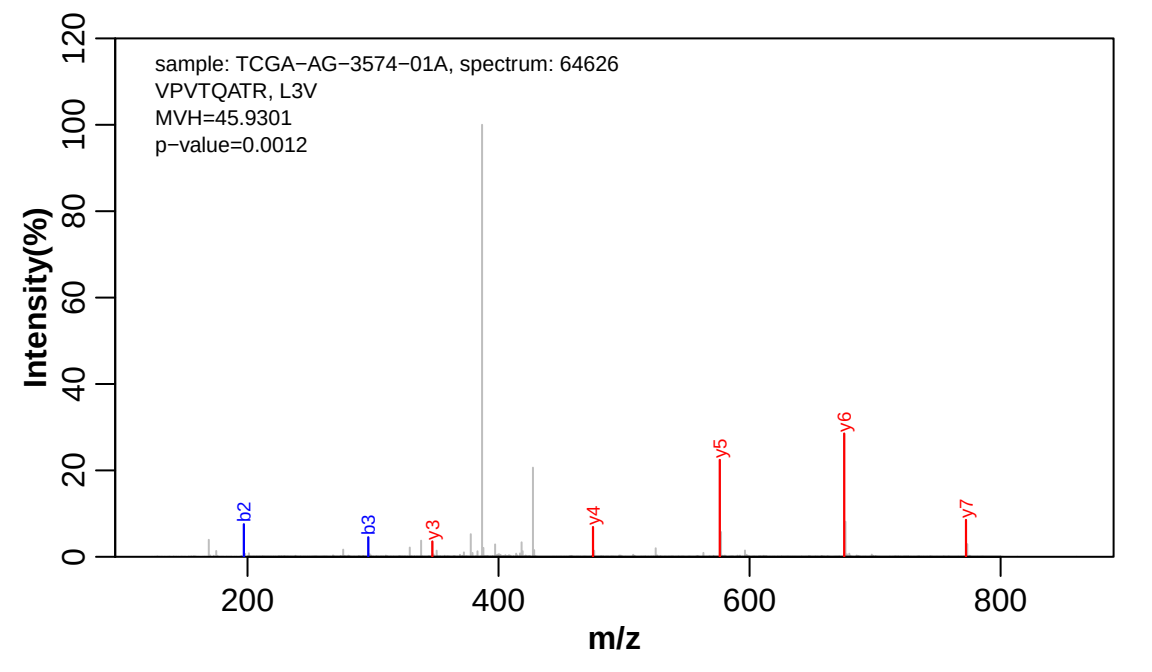

sample: TCGA−AG−3574−01A, spectrum: 54946
STESLQTNVQR, A7T
MVH=49.3603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
b4−H2O
y3
b4
b5−NH3
b5−H2O
b5
y4
y5−NH3
y5
b6
y6
b7
b8−NH3
y7
b8
y8
b9
b10
b10−H2O

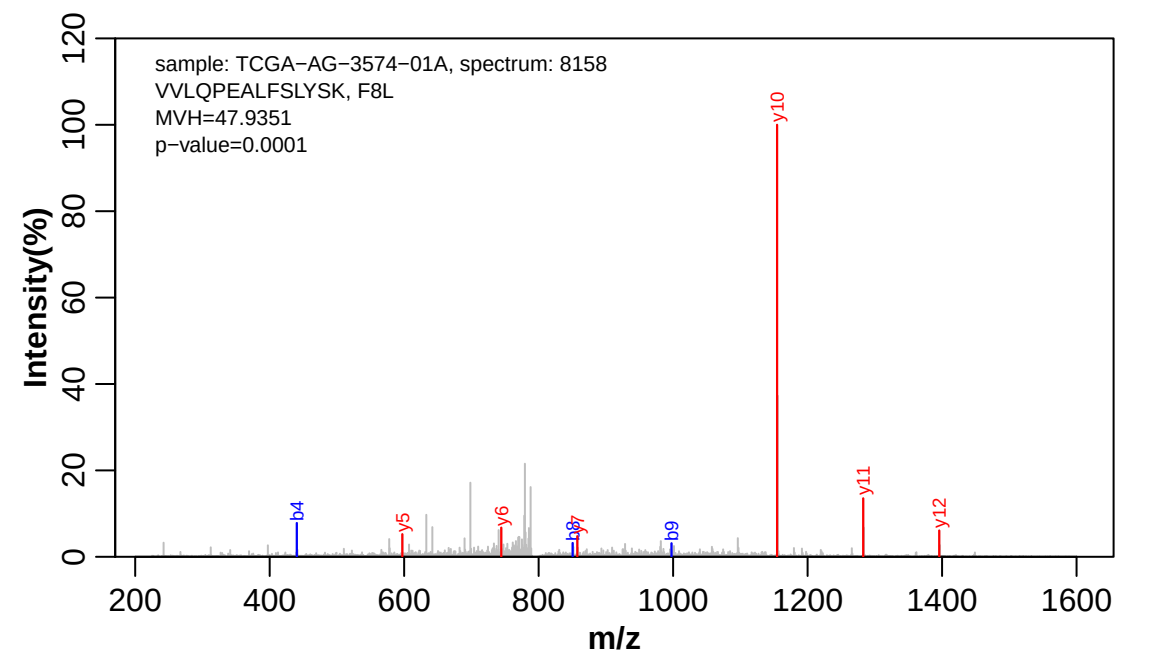

sample: TCGA−AG−3574−01A, spectrum: 59615
SVMDTTQLAGLNCLR, A5T
MVH=43.7228
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y7
y4
y3
y5−NH3
y8−NH3
y9
y10−NH3
y12
b14−NH3
b10−H2O
b9−NH3
b8−NH3
b8−H2O
b9−H2O

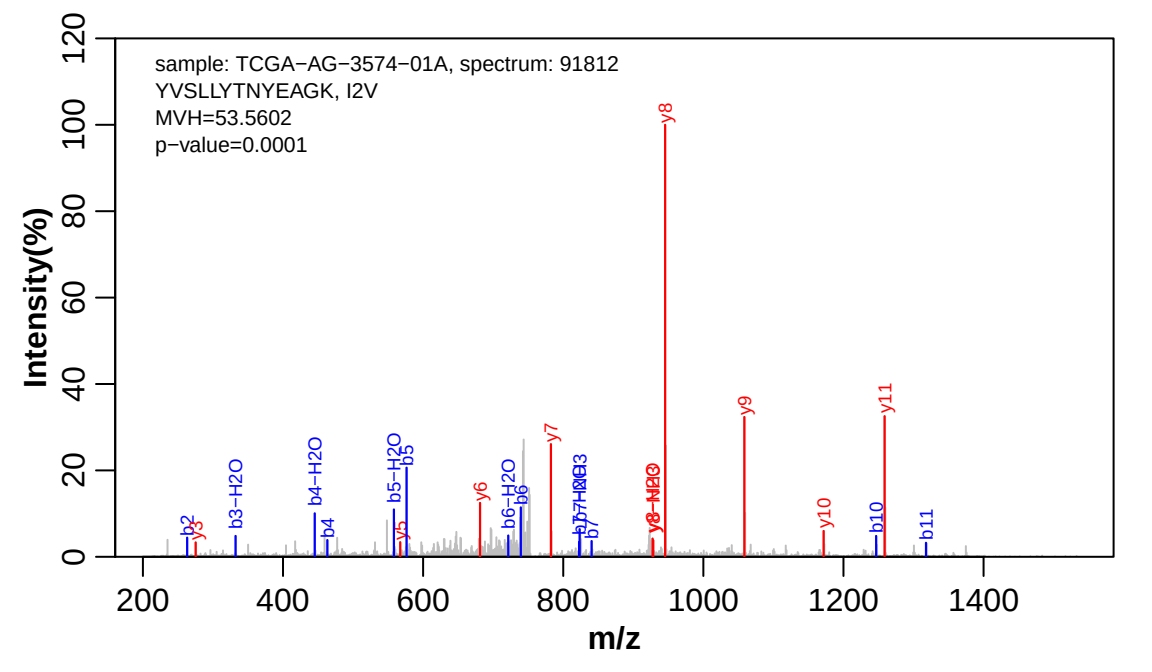

sample: TCGA−AG−3574−01A, spectrum: 66015
TSLSAPPNTSSTENPK, S9T
MVH=35.3999
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y10
y11−H2O
y11
y12
y13

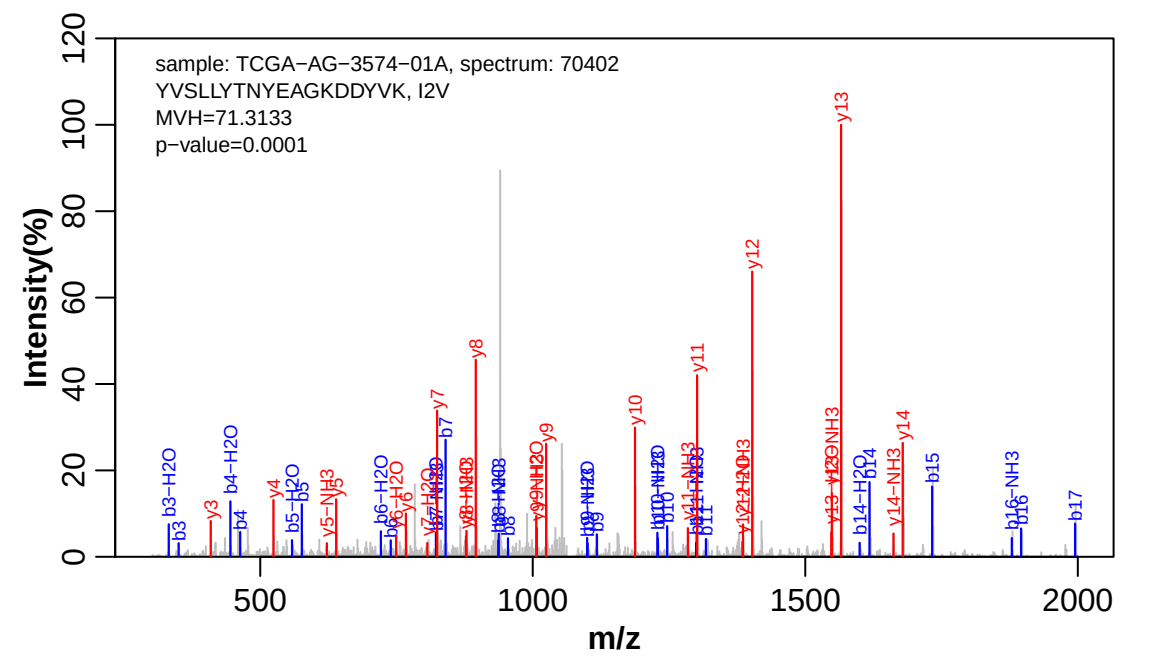

sample: TCGA−AG−3574−01A, spectrum: 66468
TYGQVSGEALK, D2Y
MVH=48.8353
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y9
y6
y7
b8−H2O
b8−NH3
y8
b2
b4
y5
b5
b6
b10−H2O
b10

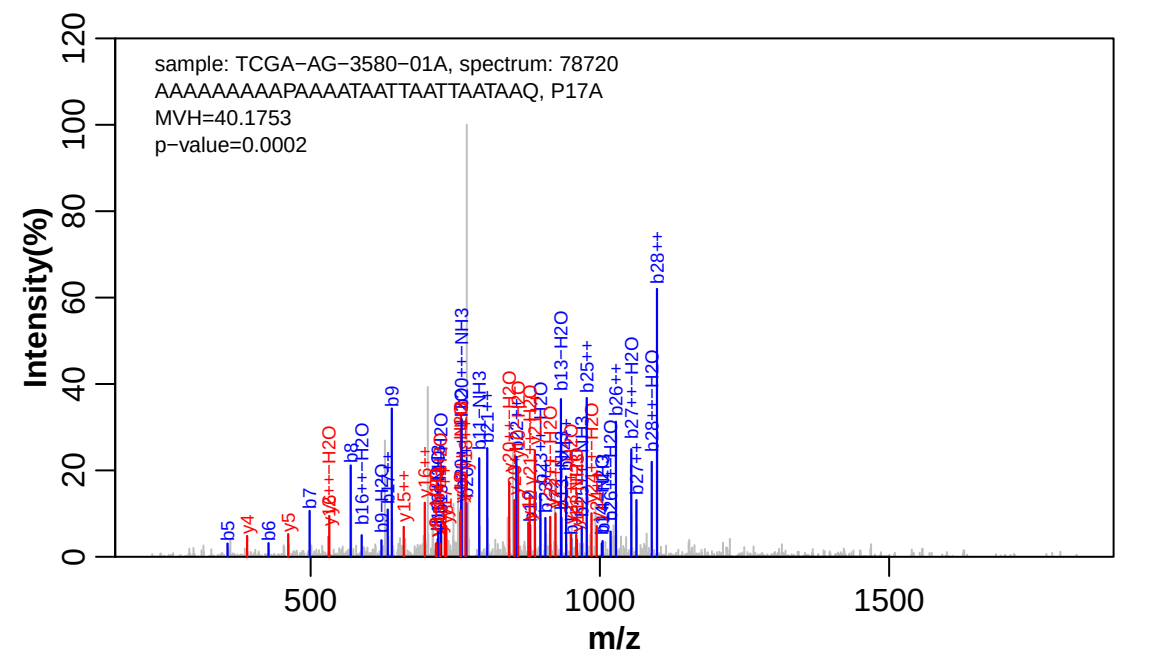

sample: TCGA−AG−3574−01A, spectrum: 137588
VPLASQGLGPGSTVLLVVDKCDEPLNLLVR, S26N
MVH=78.6039
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y22++
y21++
y24++
y26++
y23++
y10
y22++−NH3
y11++
b14++−H2O
b16++−H2O
b17++−H2O
b6
b8
b9
y7
y15++
y8
b11
y9
y19++
b22++
b18−NH3

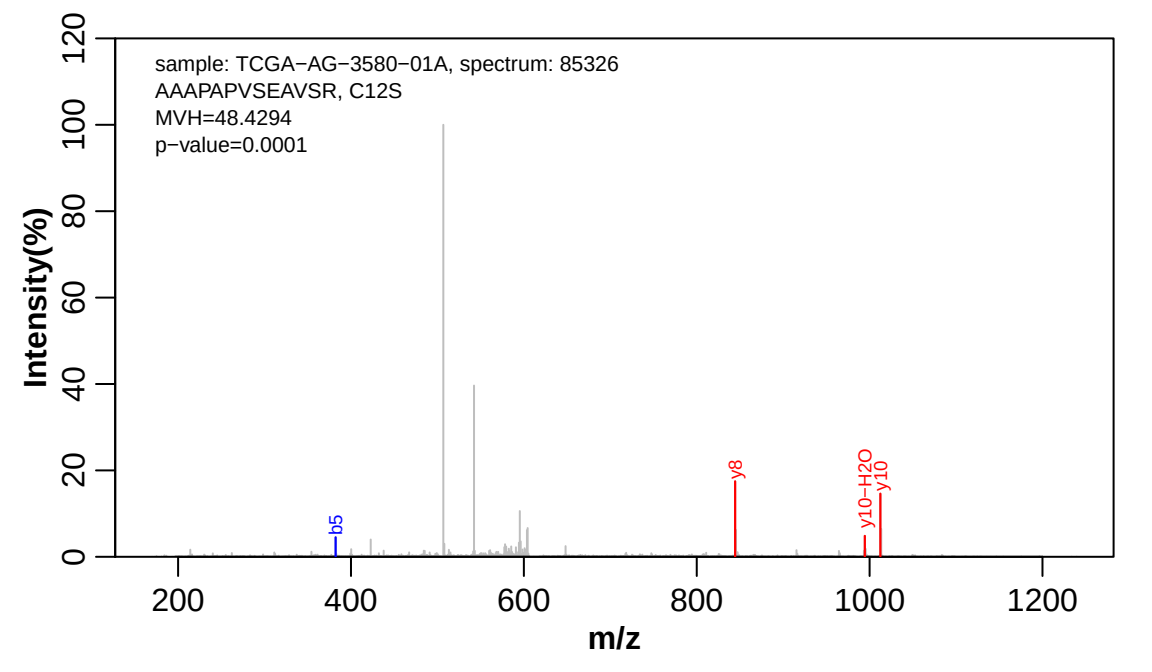

sample: TCGA−AG−3574−01A, spectrum: 64626
VPVTQATR, L3V
MVH=45.9301
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

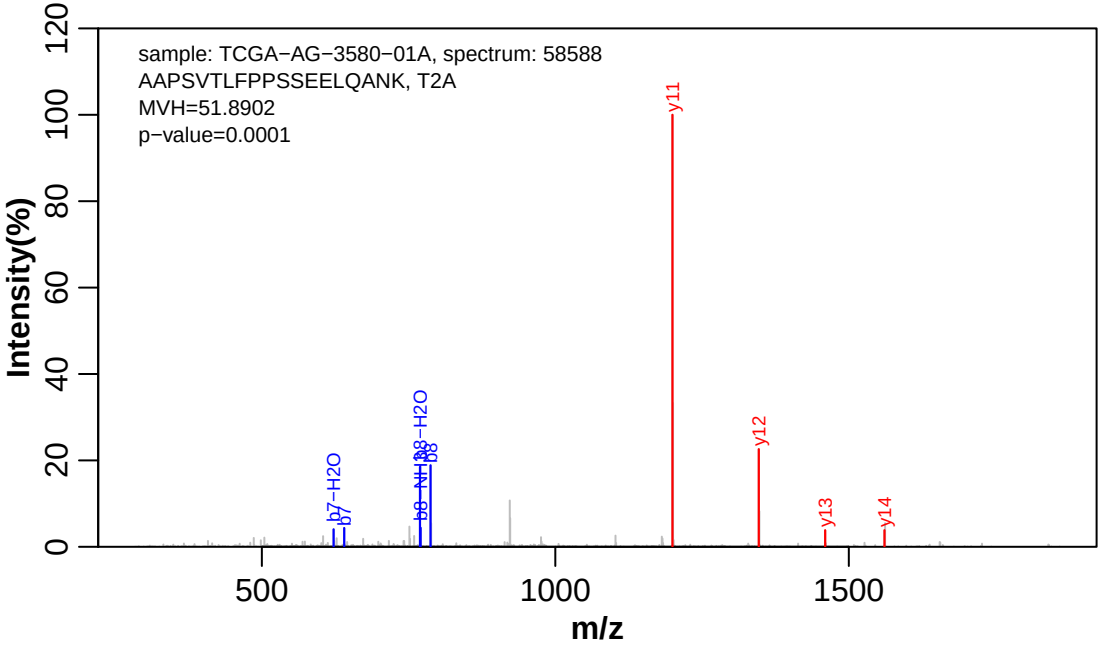

sample: TCGA−AG−3574−01A, spectrum: 8158
VVLQPEALFSLYSK, F8L
MVH=47.9351
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
y6
b8
y7
b9
y10
y11
y12

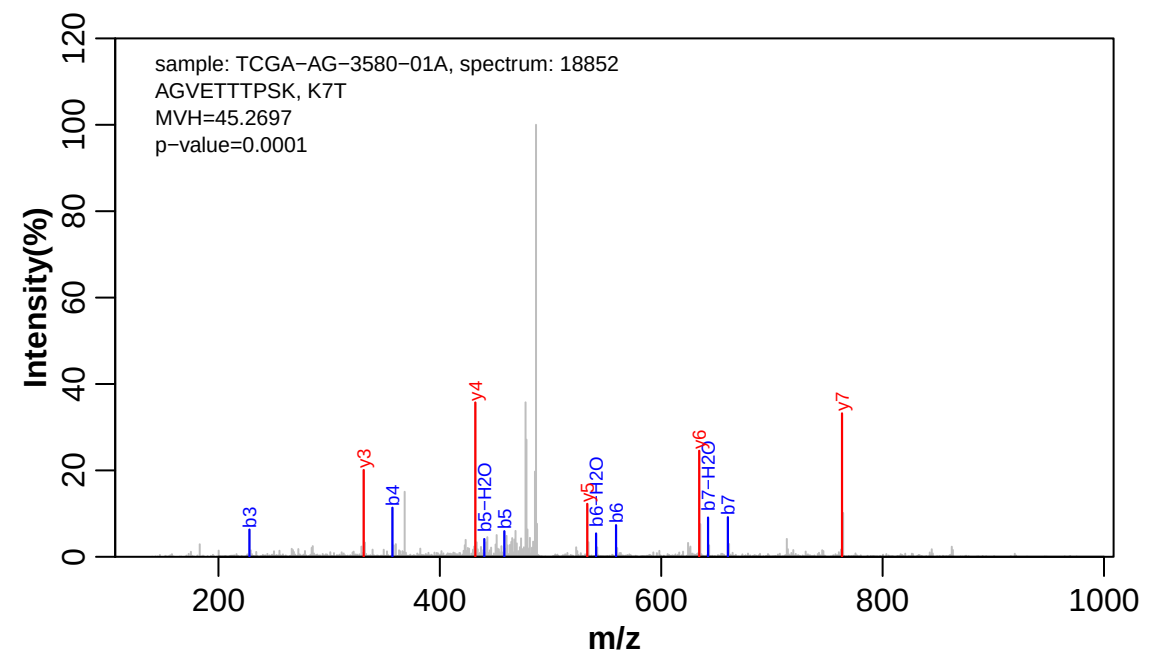

sample: TCGA−AG−3574−01A, spectrum: 91812
YVSLLYTNYEAGK, I2V
MVH=53.5602
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y8
y9
y11
y7
y6
y10
b10
b11
b3−H2O
b4−H2O
b5−H2O
b6−H2O
b2
y3
b4
b5
y5
b6
b7

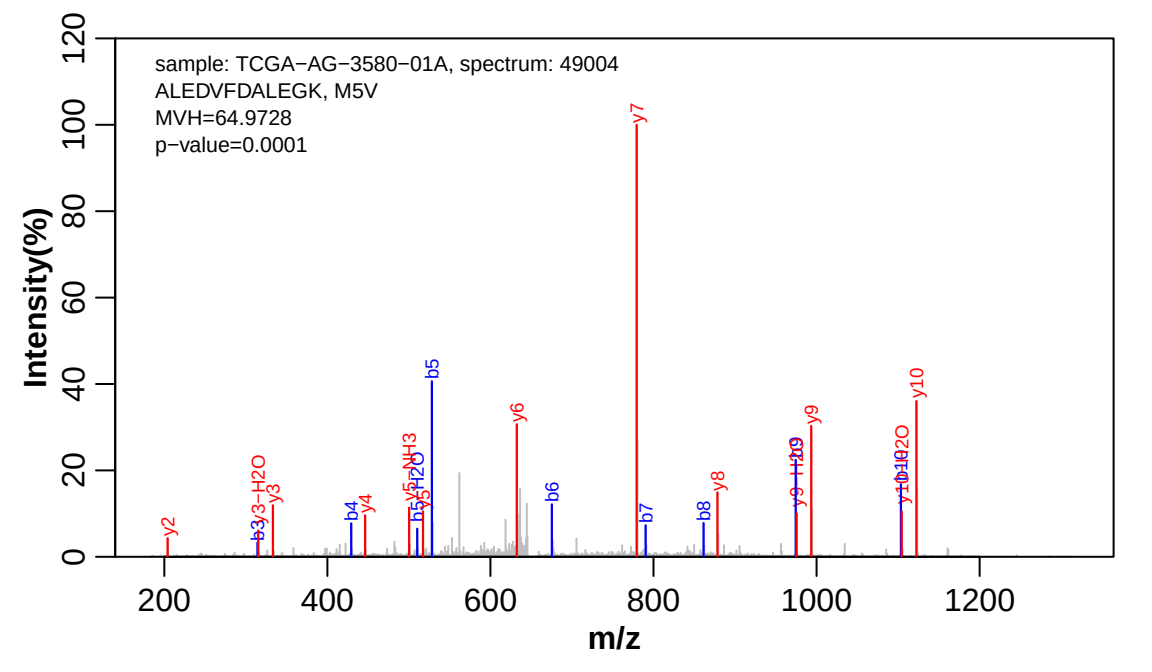

sample: TCGA−AG−3574−01A, spectrum: 70402
YVSLLYTNYEAGKDDYVK, I2V
MVH=71.3133
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y13
y12
y11
y10
y9
y8
y7
y6
y5
y4
y3
b3
b4
b5
b6
b7
b14
b15
b16
b17
b3−H2O
b4−H2O
b5−H2O
b6−H2O
b14−H2O
b14−NH3
b16−NH3
y14−NH3
y13−NH3
y12−NH3

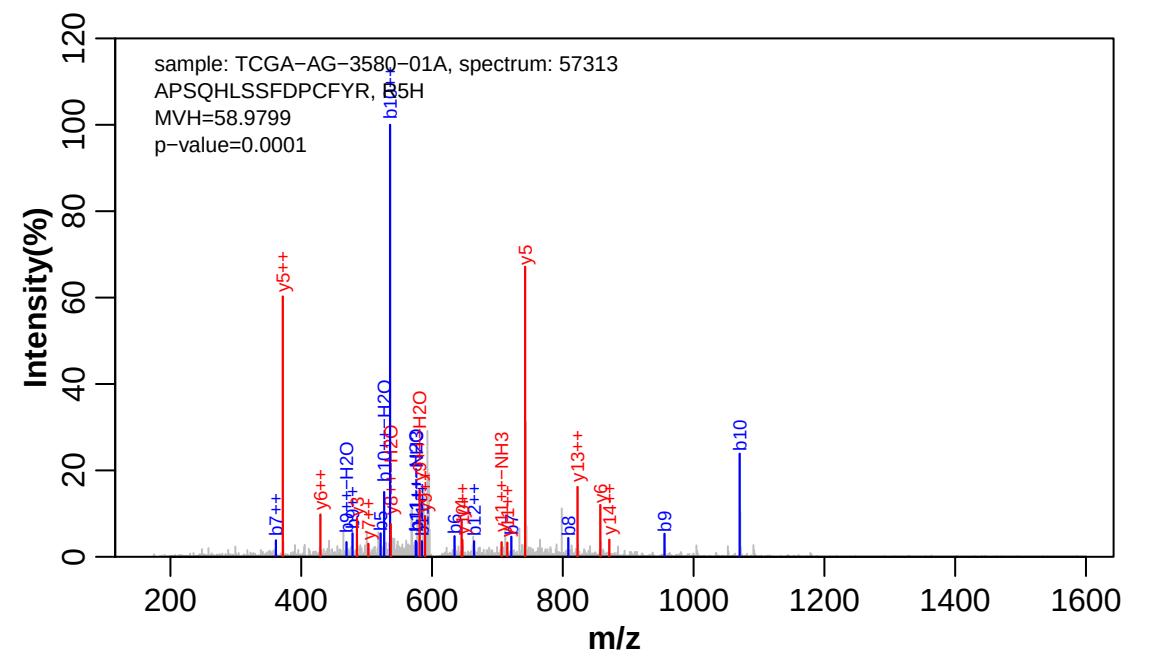

sample: TCGA−AG−3580−01A, spectrum: 78720
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=40.1753
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
y4
b6
y5
b7
b8
b9
y15++
b21−NH3
b13−H2O
b25++
b26++
b27++−H2O
b28++
b28++−H2O

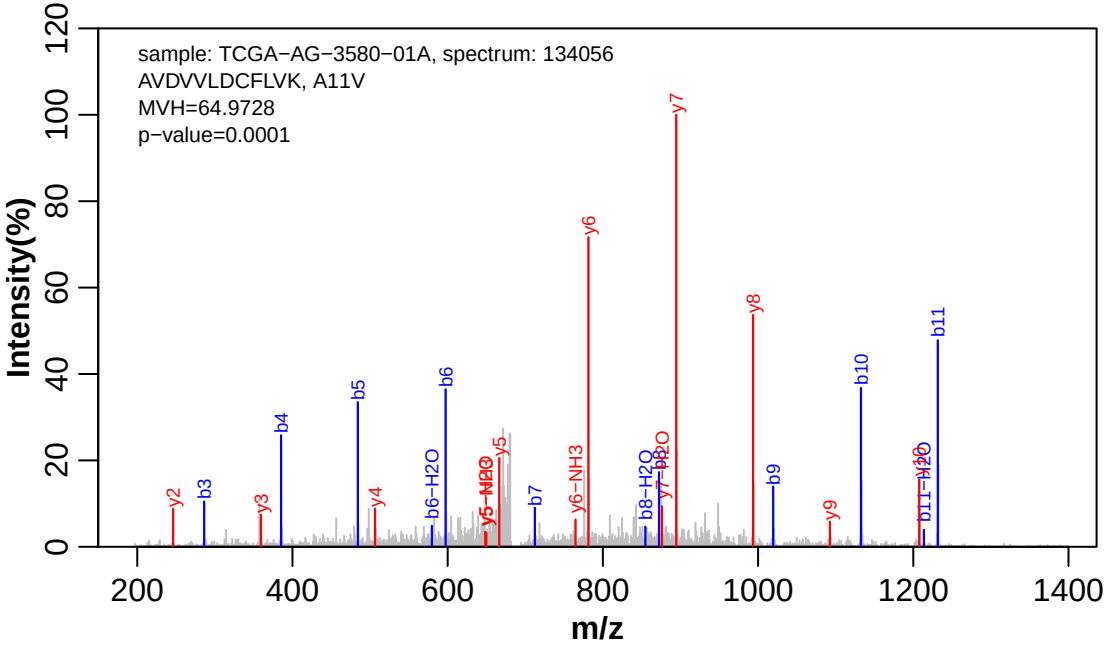

sample: TCGA−AG−3580−01A, spectrum: 85326
AAAPAPVSEAVSR, C12S
MVH=48.4294
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10−H2O
y10

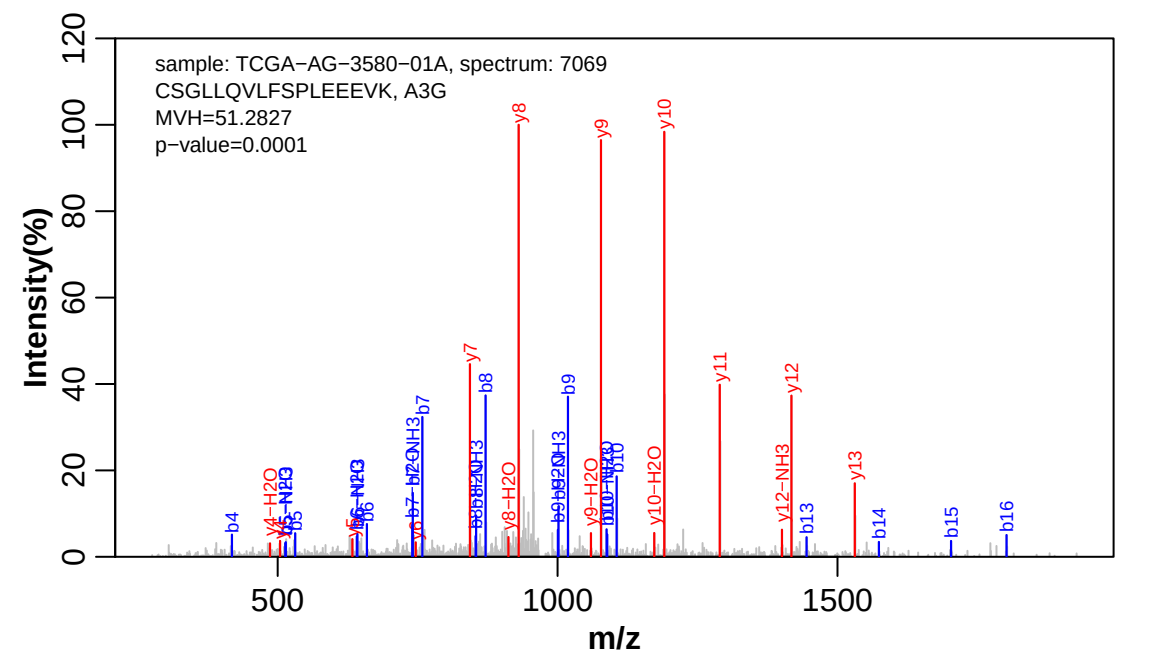

sample: TCGA−AG−3580−01A, spectrum: 58588
AAPSVTLFPPSSEELQANK, T2A
MVH=51.8902
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

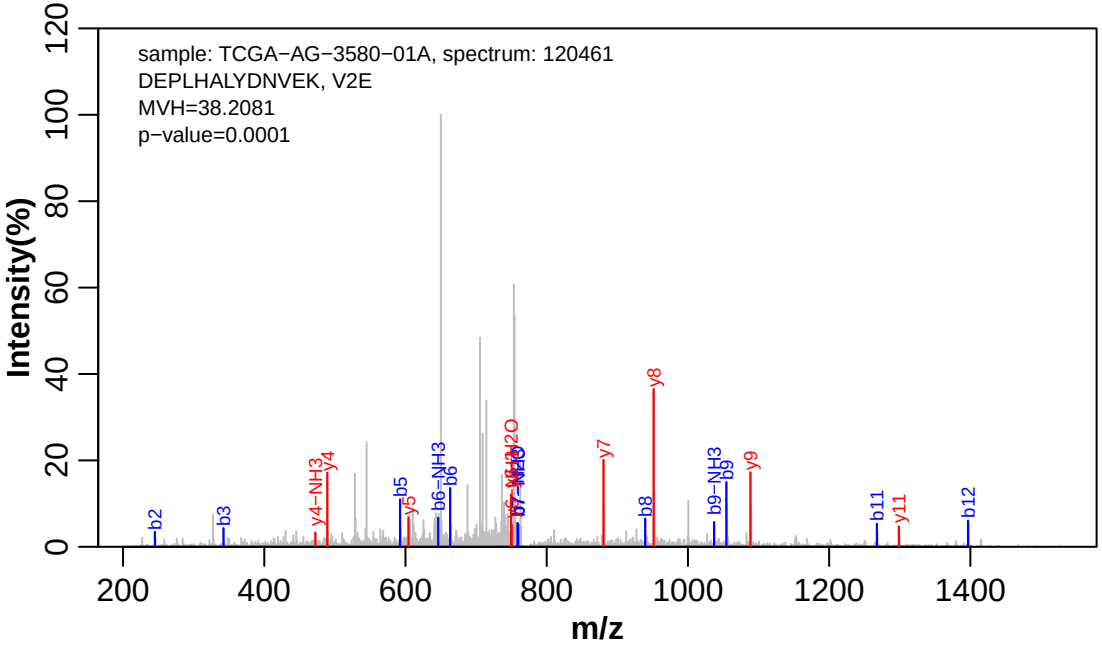

sample: TCGA−AG−3580−01A, spectrum: 18852
AGVETTTPSK, K7T
MVH=45.2697
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

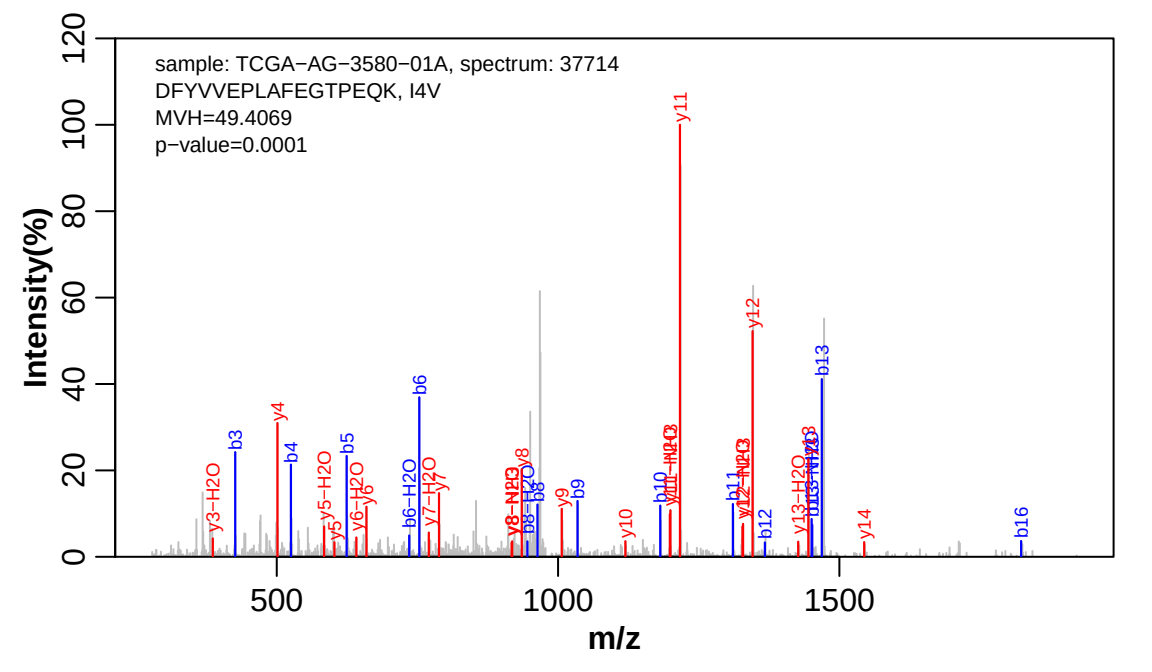

sample: TCGA−AG−3580−01A, spectrum: 49004
ALEDVFDALEGK, M5V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
b3−H2O
y3
b4
y4
b5
y5−NH3
y5−H2O
y5
b6
y6
b7
y7
b8
y8
y9−H2O
y9−NH3
y9
y10−H2O
y10−NH3
y10

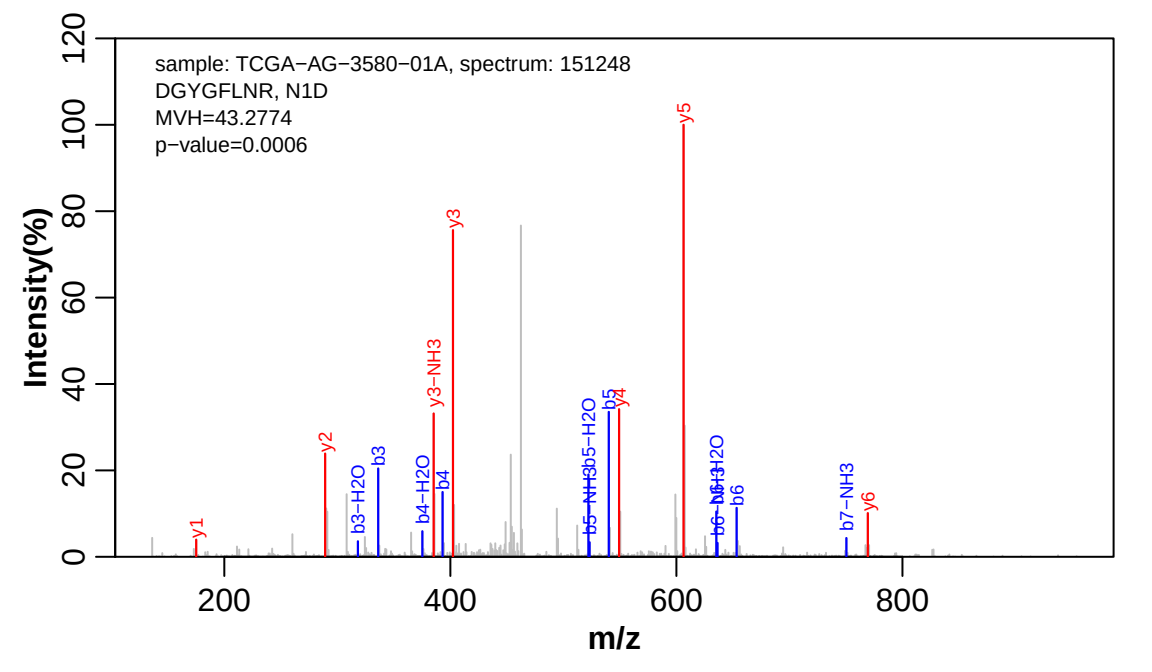

sample: TCGA−AG−3580−01A, spectrum: 57313
APSQHLSSFDPCFYR, B5H
MVH=58.9799
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7++
y5++
y6++
b9++−H2O
y7++
b5
y8++−H2O
b10++−H2O
b11++−NH3
b11++
y9++−H2O
b6++
b12++
y11++−NH3
y9++
y5
b8
y13++
y6
y14/6
b9
b10

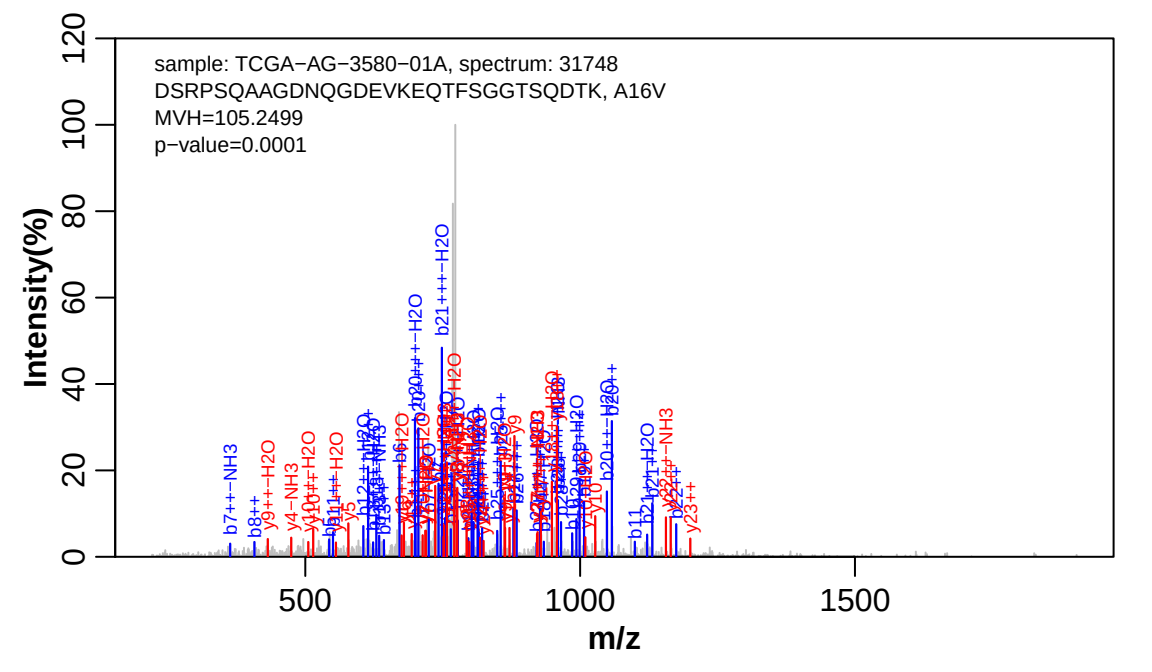

sample: TCGA−AG−3580−01A, spectrum: 134056
AVDVVLDCFLVK, A11V
MVH=64.9728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
y4
b5
b6
b6−H2O
y5−NH3
y5
b7
y6−NH3
y6
b8−H2O
y7−H2O
y7
y8
b9
y9
b10
b11−H2O
b11

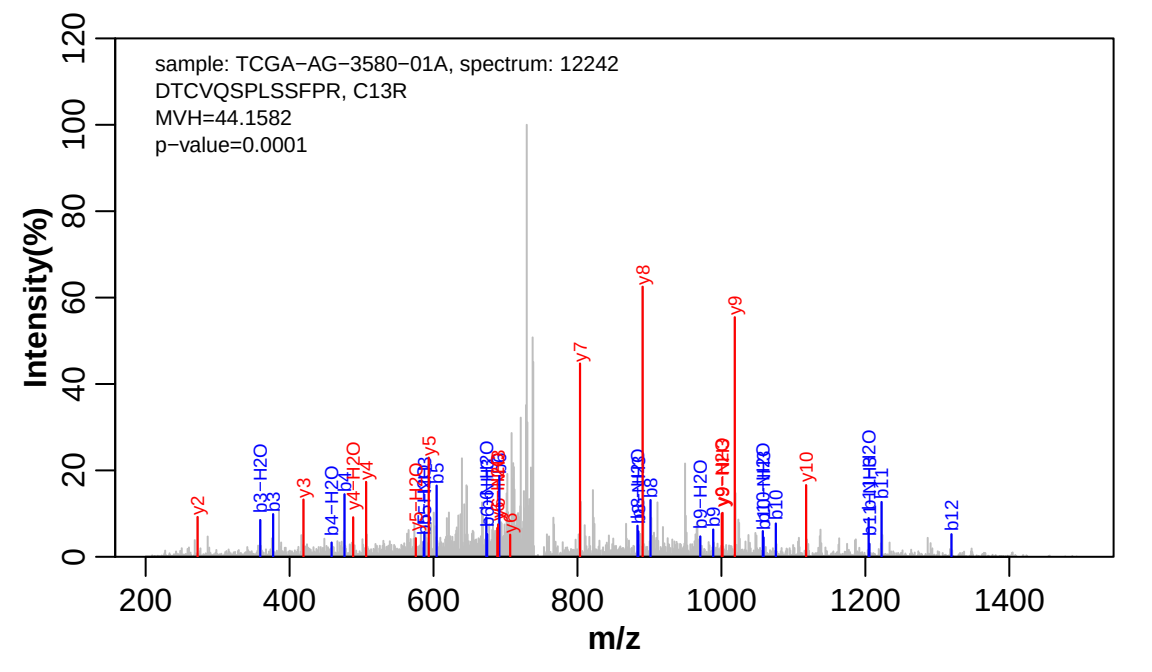

sample: TCGA−AG−3580−01A, spectrum: 7069
CSGLLQVLFSPLEEEVK, A3G
MVH=51.2827
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y10
y7
b8
b9
y11
y12
y8−H2O
y9−H2O
y10−H2O
y12−NH3
y13
b4
b13
b14
b15
b16

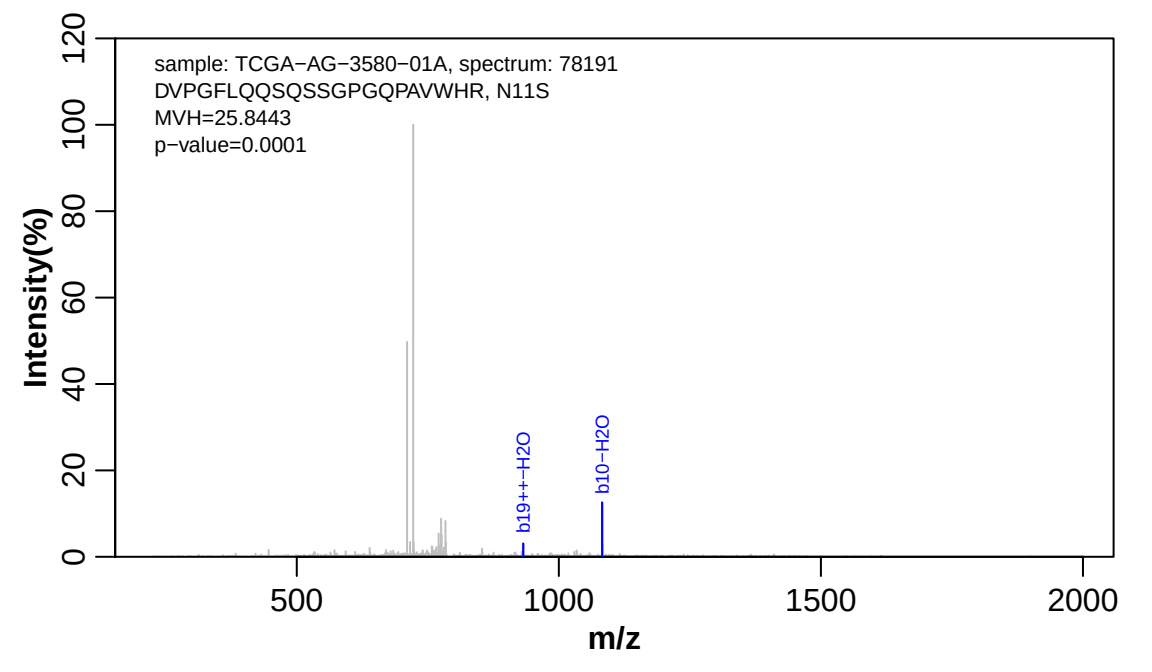

sample: TCGA−AG−3580−01A, spectrum: 120461
DEPLHALYDNVEK, V2E
MVH=38.2081
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y4−NH3
y4
b5
y5
b6−NH3
b6
y7
b8
y8
b9−NH3
b9
y9
b11
y11
b12

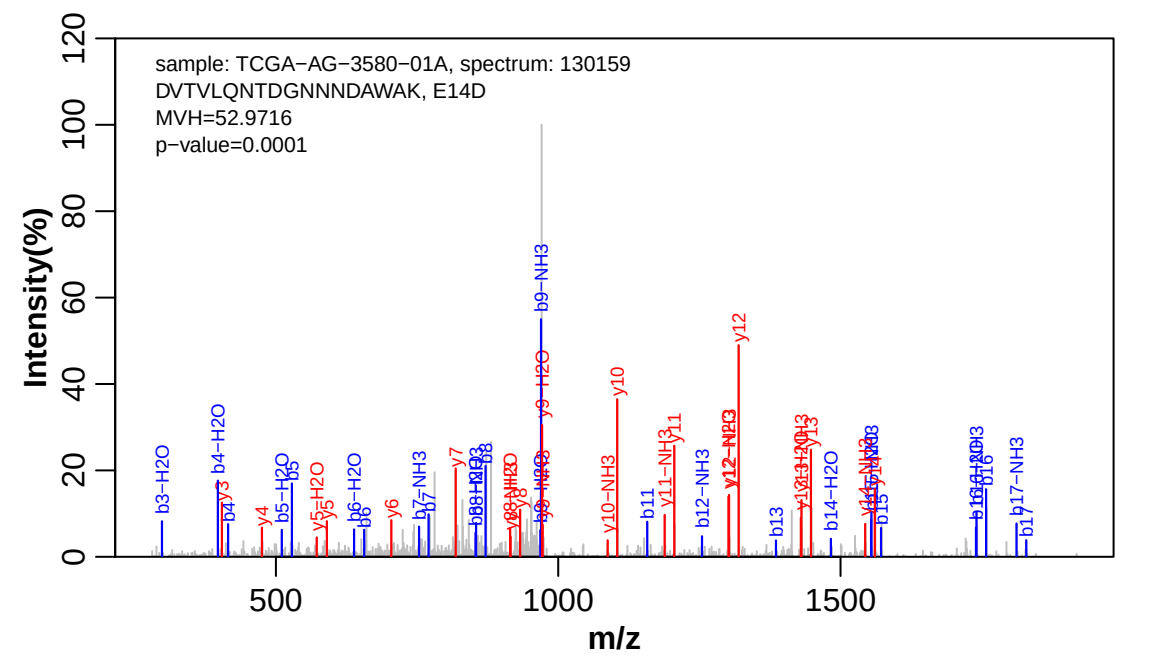

sample: TCGA−AG−3580−01A, spectrum: 37714
DFYVVEPLAFEGTPEQK, I4V
MVH=49.4069
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
b13
y4
b3
b4
b5
b6
y14
b16
y10
b9
b12

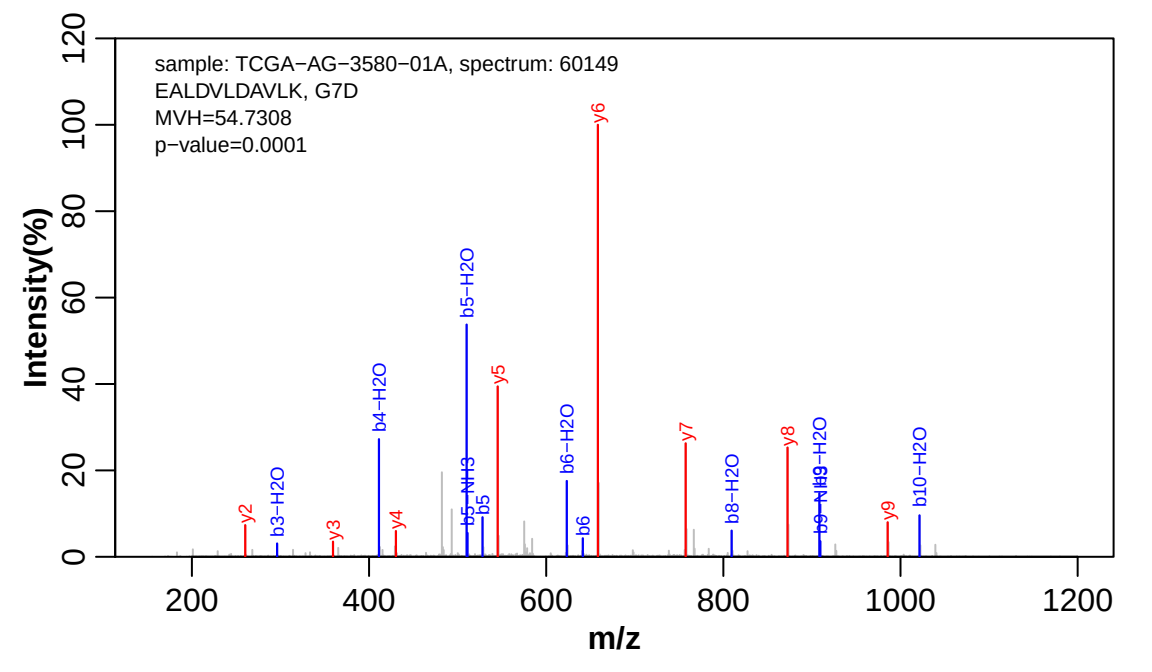

sample: TCGA−AG−3580−01A, spectrum: 151248
DGYGFLNR, N1D
MVH=43.2774
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−NH3
b6−H2O
b6
b7−NH3
y6

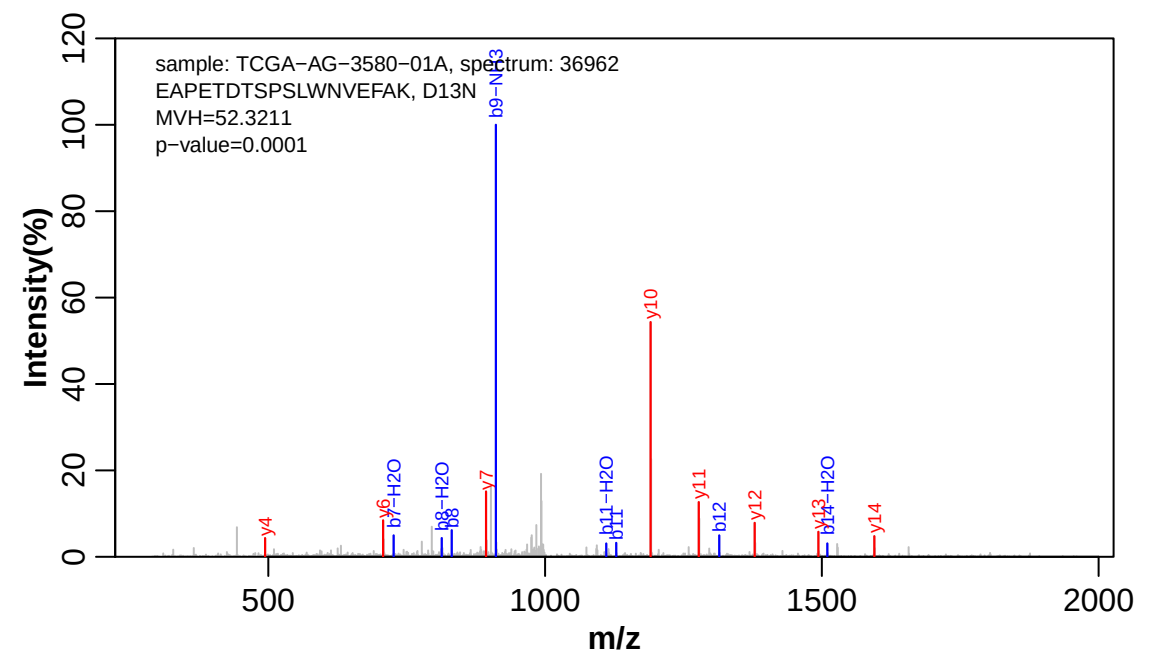

sample: TCGA−AG−3580−01A, spectrum: 31748
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=105.2499
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++−NH3
b8++
y9++−H2O
y4−NH3
y10++−H2O
b11++−H2O
b21++−H2O
b20++
y23++

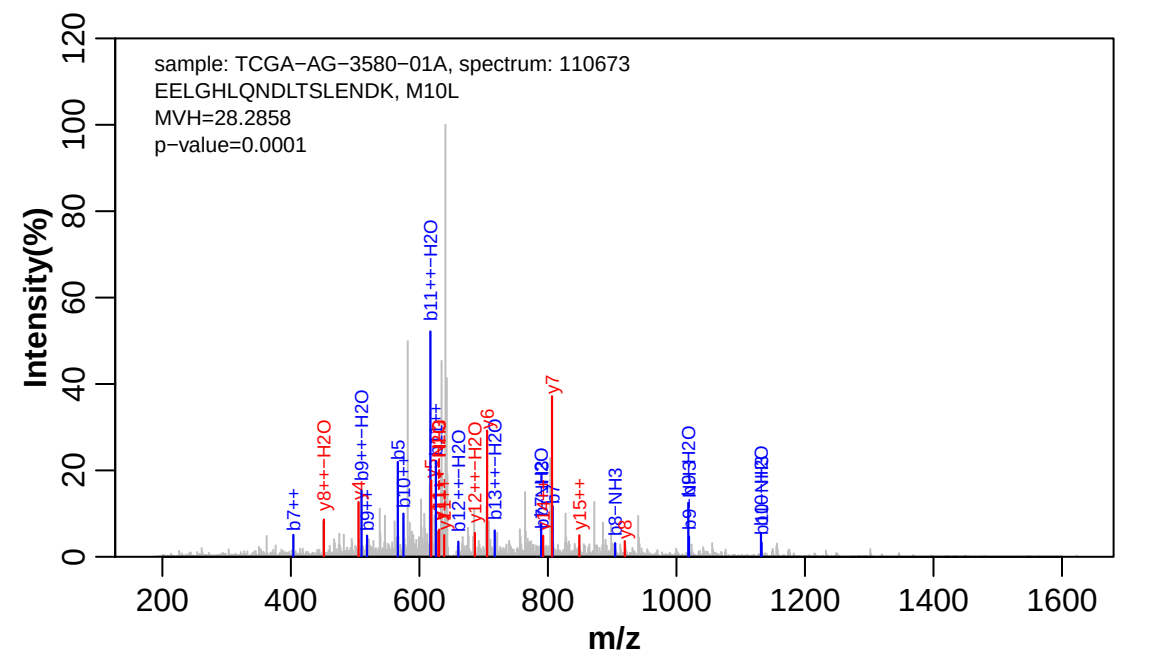

sample: TCGA−AG−3580−01A, spectrum: 12242
DTCVQSPLSSFPR, C13R
MVH=44.1582
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−H2O
y4
y5
b5
y8
y7
y8
y9
b8
b9−H2O
b9
y10
b10
b11
b12

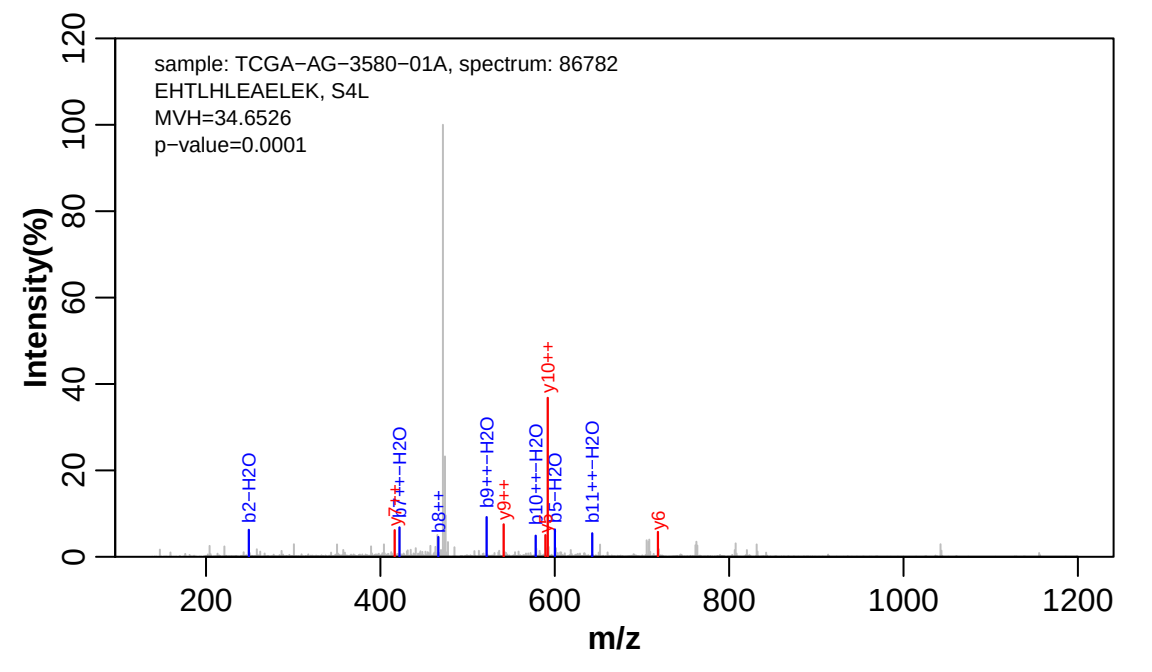

sample: TCGA−AG−3580−01A, spectrum: 78191
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=25.8443
p−value=0.0001
b19++−H2O
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

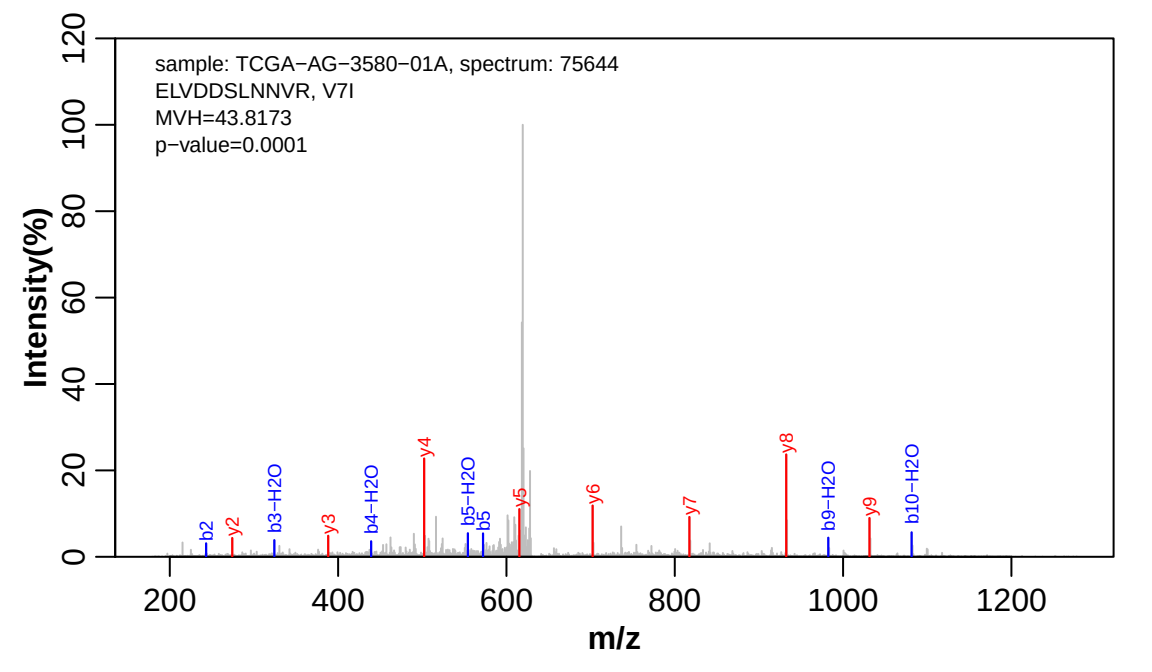

sample: TCGA−AG−3580−01A, spectrum: 130159
DVTVLQNTDGNNNDAWAK, E14D
MVH=52.9716
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4−H2O
y3
b4
b5−H2O
b5
y4
y5−H2O
y5
b6−H2O
b6
y6
b7−NH3
b7
y7
b8
b9−NH3
y8−H2O
y8
y9−NH3
y9
y9−H2O
y10
y10−NH3
b11
y11−NH3
y11
b12−NH3
y12
y12−NH3
b13
y13
b14−H2O
b15
b16
b17−NH3
b17

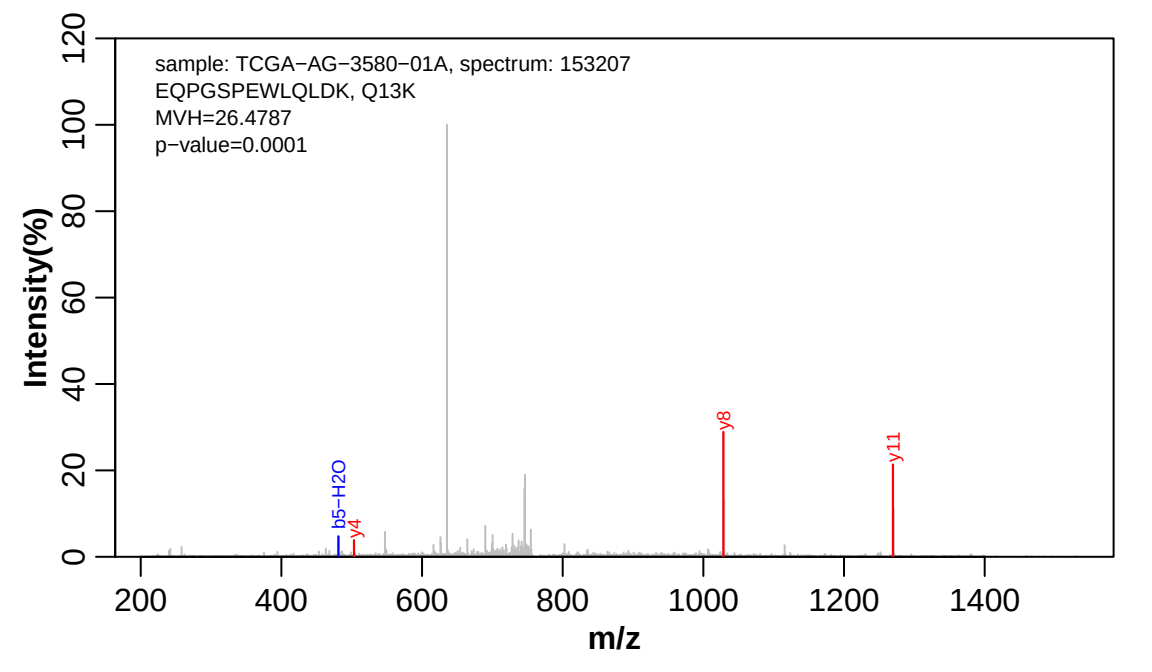

sample: TCGA−AG−3580−01A, spectrum: 60149
EALDVLDAVLK, G7D
MVH=54.7308
p−value=0.0001
Intensity(%)
m/z
y6
y7
y8
y9
y5
y4
y3
y2
b10−H2O
b9−NH3
b9−H2O
b8−H2O
b6−H2O
b6
b5−NH3
b5
b5−H2O
b4−H2O
b3−H2O

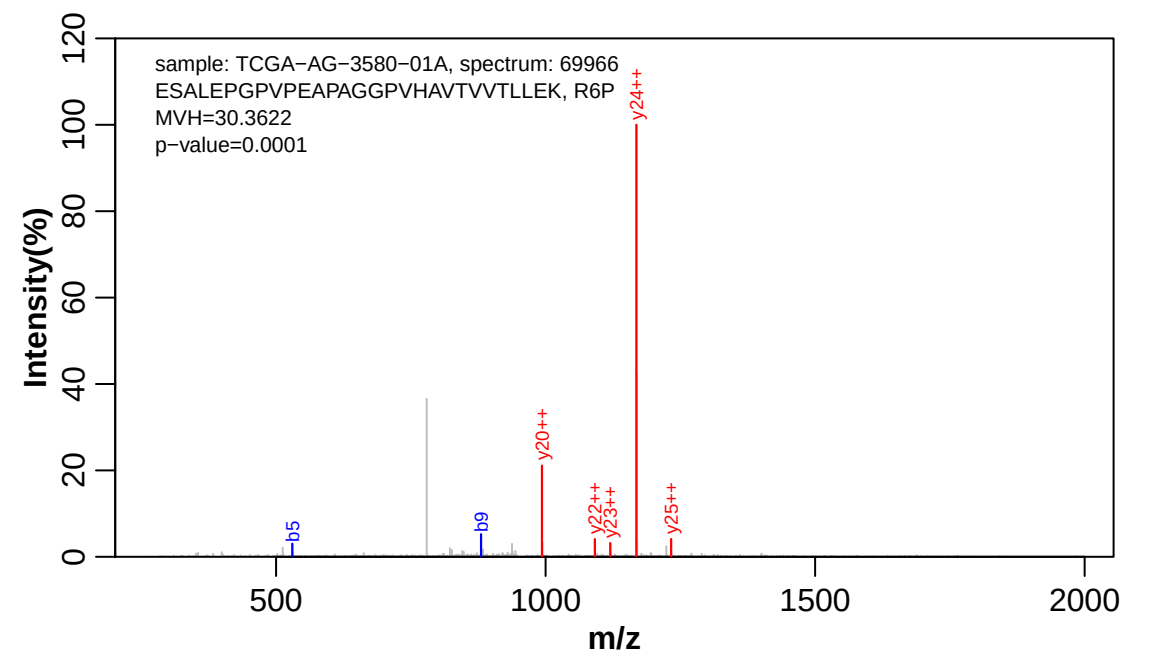

sample: TCGA−AG−3580−01A, spectrum: 36962
EAPETDTSPSLWNVEFAK, D13N
MVH=52.3211
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9−NH3
y10
y4
y6
b7−H2O
b8−H2O
b8
y7
b11−H2O
b11
y11
b12
y12
y13
b14−H2O
y14

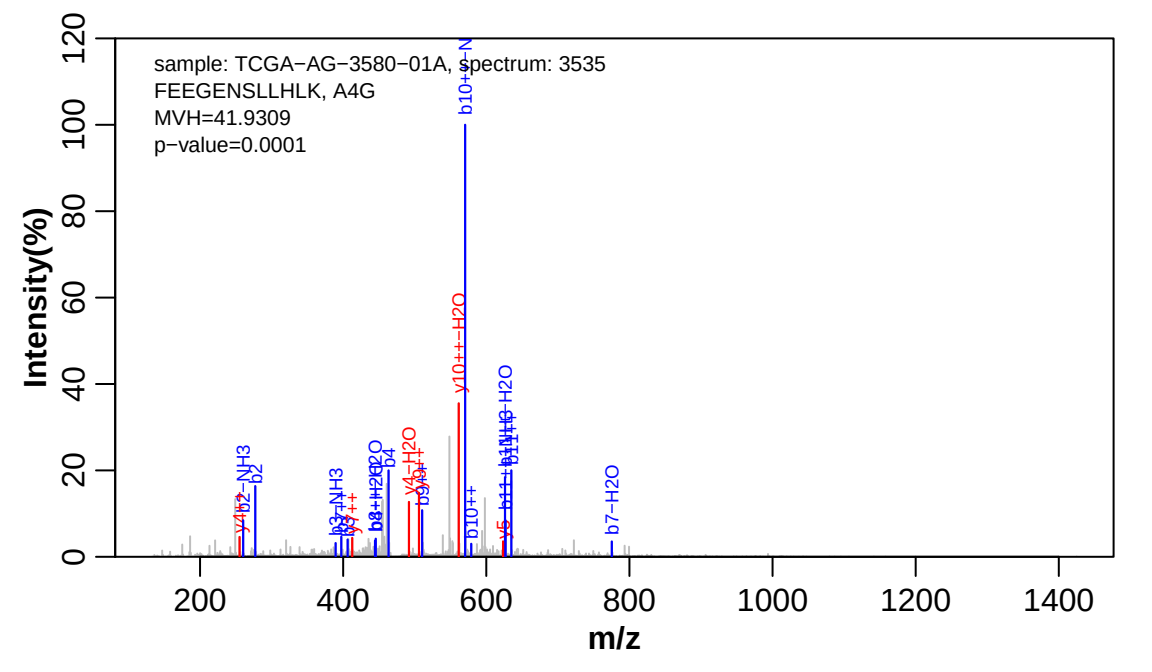

sample: TCGA−AG−3580−01A, spectrum: 110673
EELGHLQNDLTSLENDK, M10L
MVH=28.2858
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7++
y8++−H2O
b9++−H2O
b10++
b11++−H2O
b12++−H2O
y12++−H2O
b13++−H2O
y7
y15++
b8−NH3
y8
b9−H2O
b10−NH3

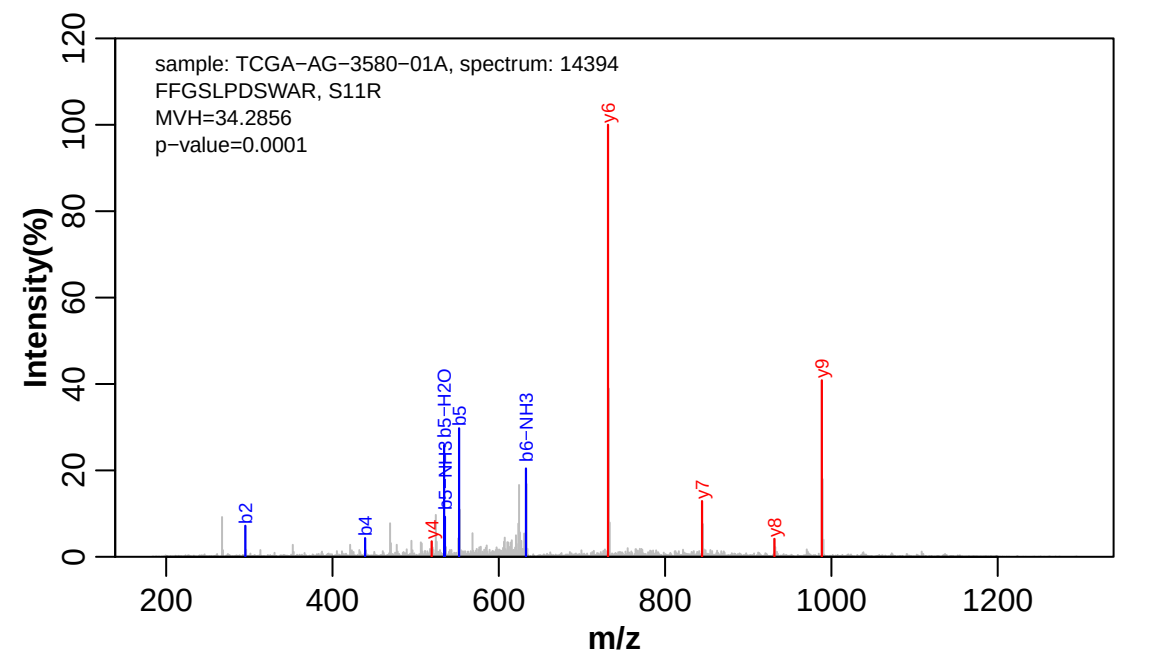

sample: TCGA−AG−3580−01A, spectrum: 86782
EHTLHLEAELEK, S4L
MVH=34.6526
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
y7++
y7++−H2O
b8++
b9++−H2O
y9++
y10++
b10++−H2O
y8−H2O
b11++−H2O
y6

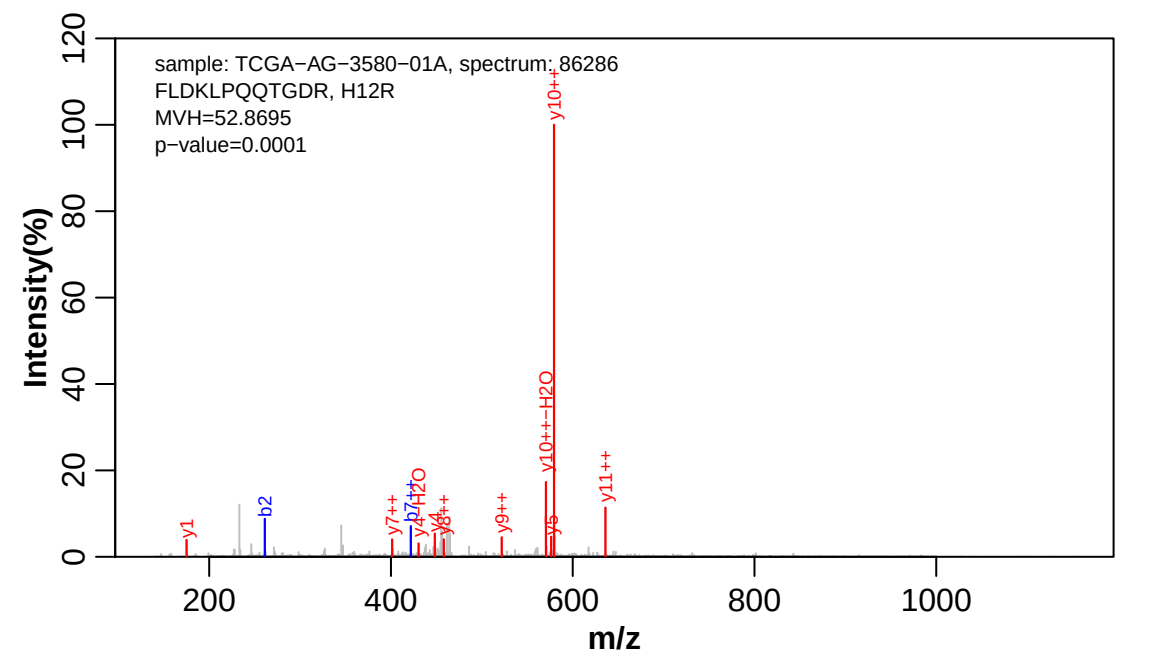

sample: TCGA−AG−3580−01A, spectrum: 75644
ELVDDSLNNVR, V7I
MVH=43.8173
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
y4
b5−H2O
b5
y5
y6
y7
y8
b9−H2O
y9
b10−H2O

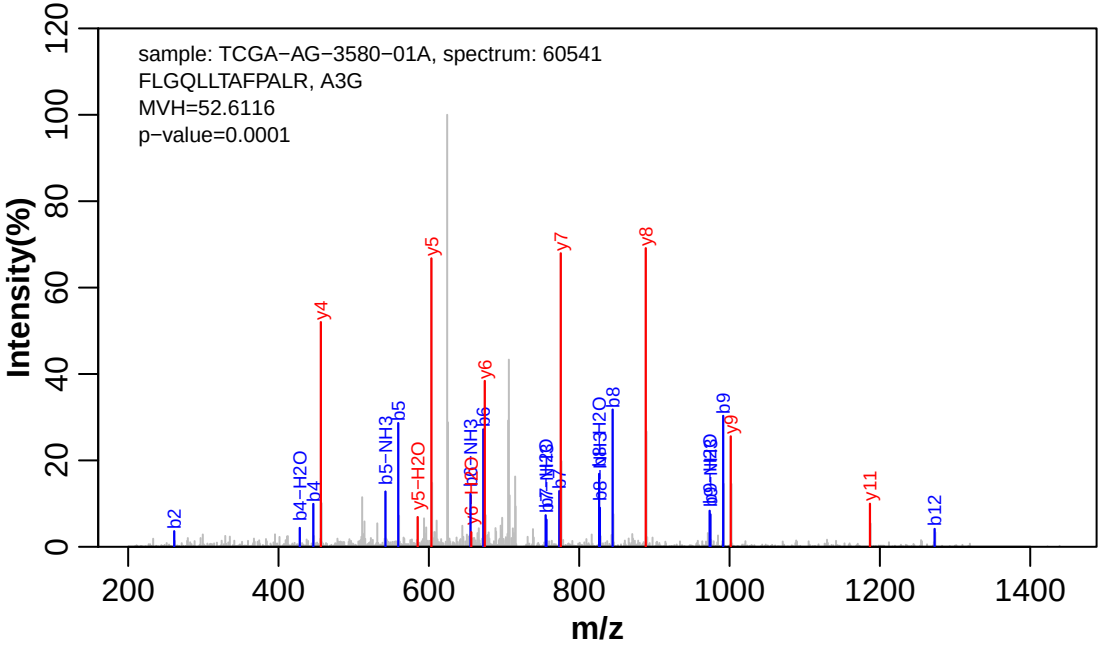

sample: TCGA−AG−3580−01A, spectrum: 153207
EQPGSPEWLQLDK, Q13K
MVH=26.4787
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

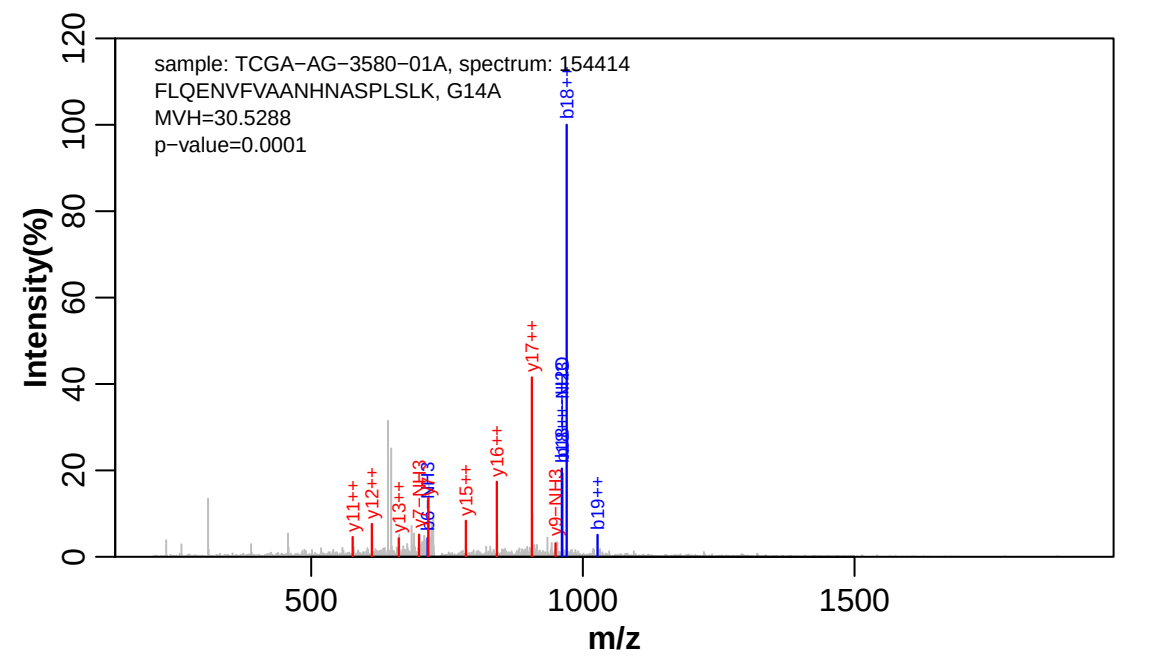

sample: TCGA−AG−3580−01A, spectrum: 69966
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=30.3622
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b5
b9
y20++
y22++
y23++
y24++
y25++

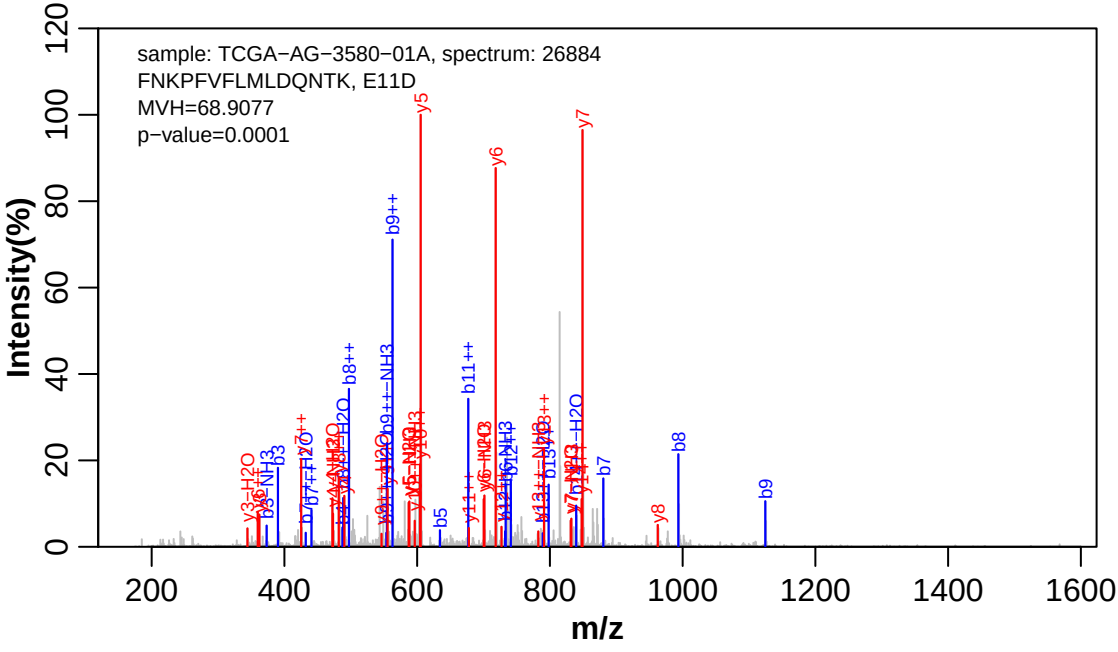

sample: TCGA−AG−3580−01A, spectrum: 3535
FEEGENSLLHLK, A4G
MVH=41.9309
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10+−N
y10++−H2O
b10++
b7−H2O
y7−NH3
b2
b7−NH3
b7++
b4
y4−H2O
b9++

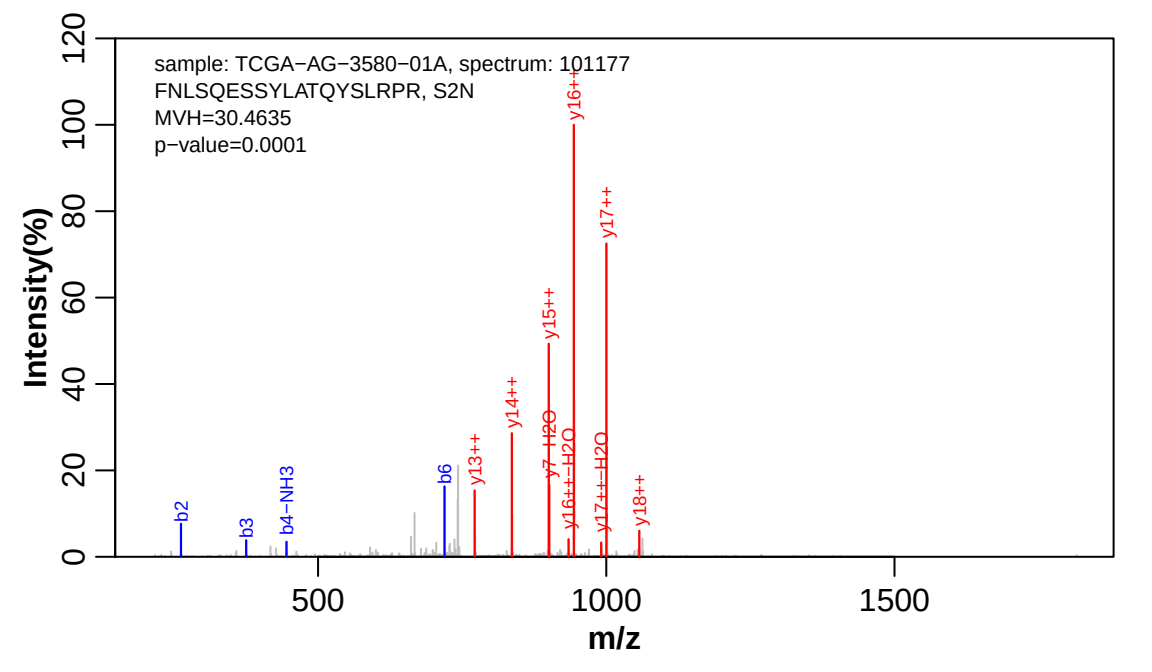

sample: TCGA−AG−3580−01A, spectrum: 14394
FFGSLPDSWAR, S11R
MVH=34.2856
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3

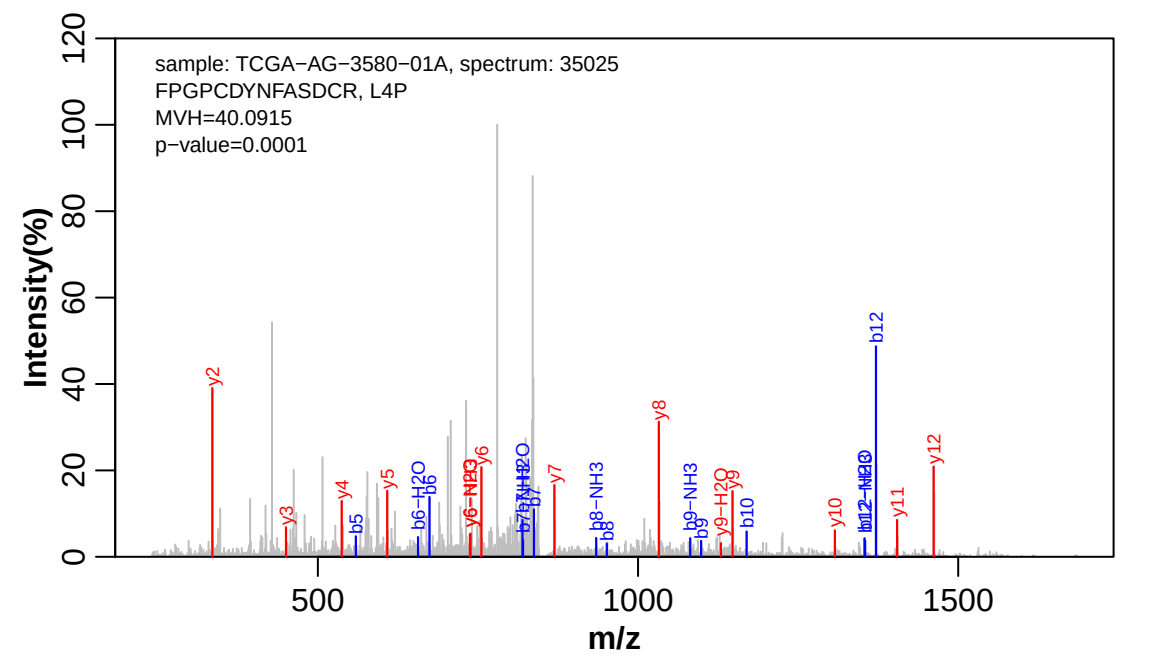

sample: TCGA−AG−3580−01A, spectrum: 86286
FLDKLPQQTGDR, H12R
MVH=52.8695
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y7++
b7++
y4
H2O
y8++
y9++
y10++
y10++−H2O
y6
y11++

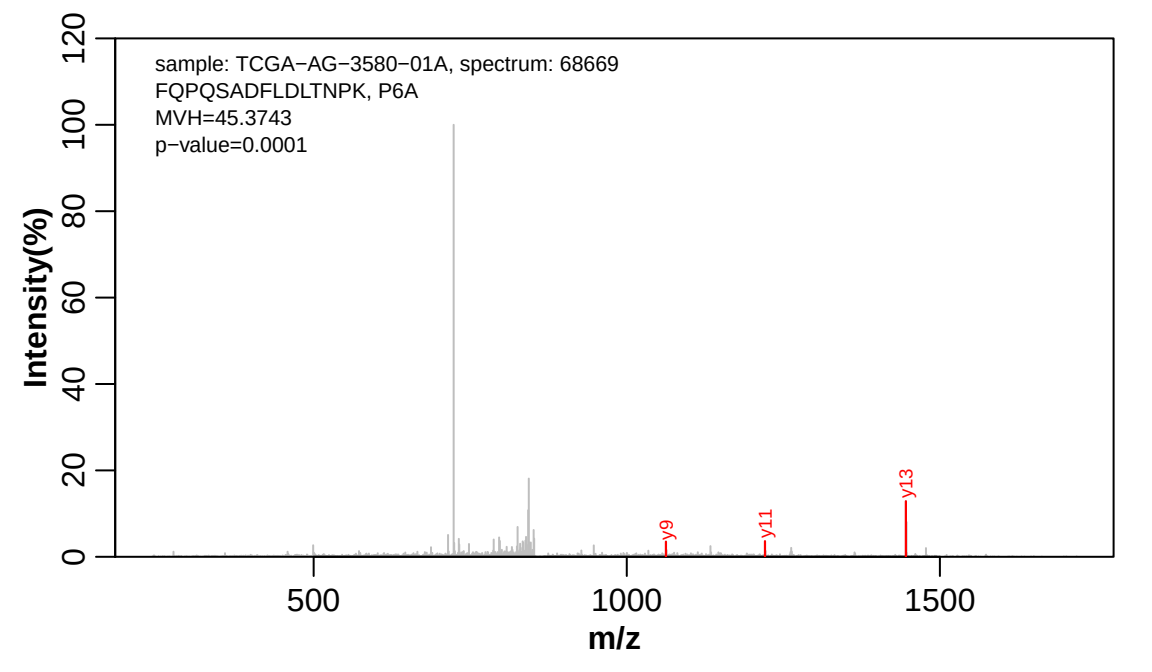

sample: TCGA−AG−3580−01A, spectrum: 60541
FLGQLLTAFPALR, A3G
MVH=52.6116
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4−H2O
b4
y4
b5−NH3
b5
y5−H2O
y5
y6
b6
b7
y7
b8
y8
y9
b9
y11
b12

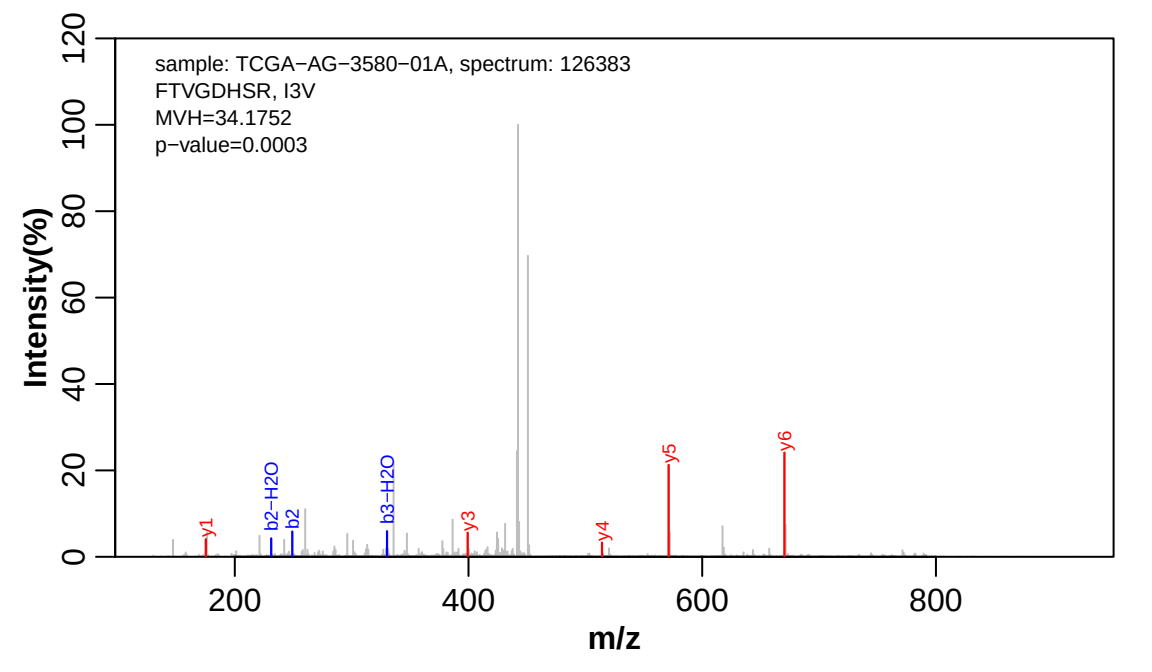

sample: TCGA−AG−3580−01A, spectrum: 154414
FLQENVFVAANHNASPLSLK, G14A
MVH=30.5288
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b18++
y17++
y16++
y15++
y13++
y12++
y11++
b19++

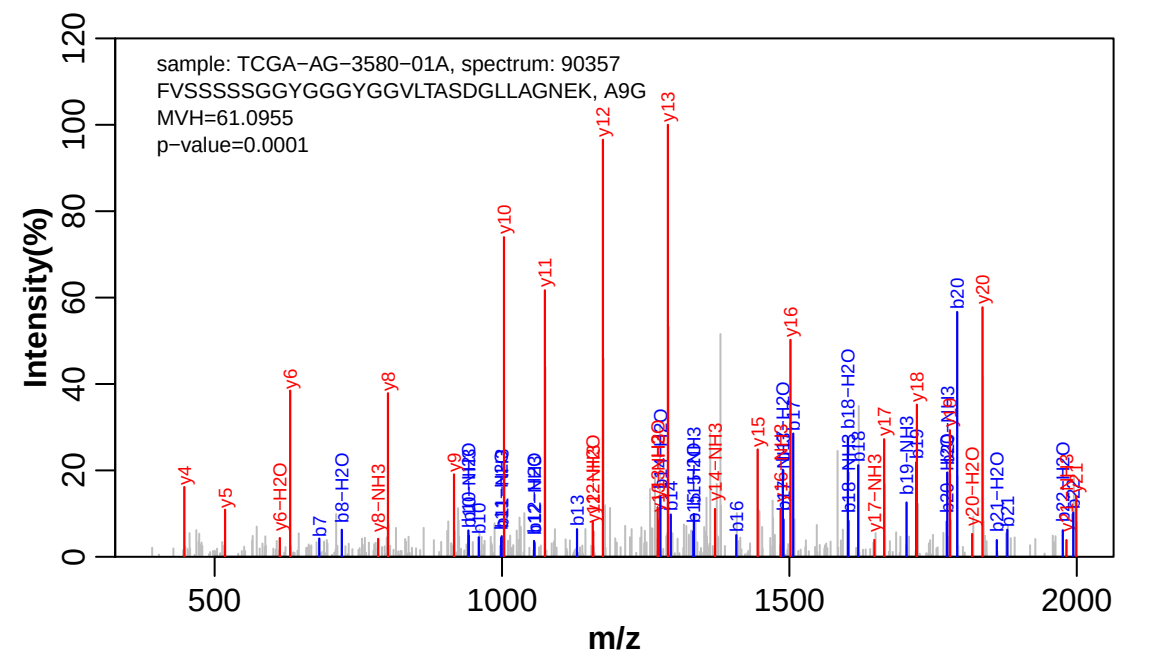

sample: TCGA−AG−3580−01A, spectrum: 26884
FNKPFVFLMLDQNTK, E11D
MVH=68.9077
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y7
y6
b9++
b8++
b11++
b5
b7
b8
b9
y8
y3−H2O
b3−NH3
b3
b7++−H2O
b9++−NH3
b9++−H2O
y11++
y6−H2O
y7−NH3
y7−H2O

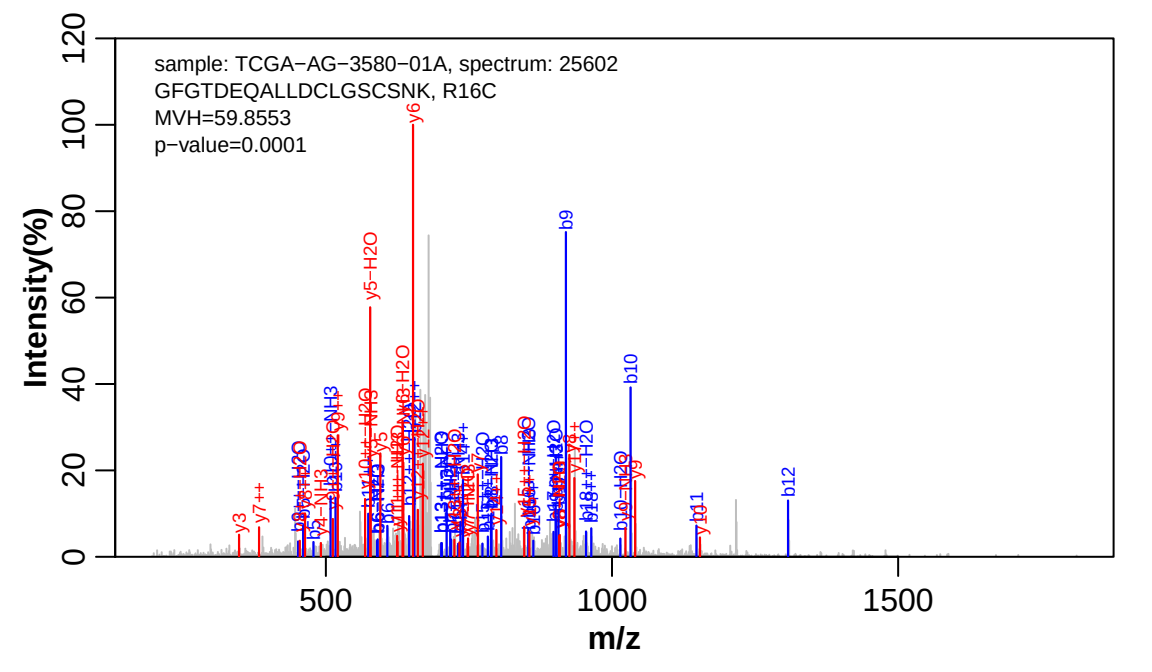

sample: TCGA−AG−3580−01A, spectrum: 101177
FNLSQESSYLATQYSLRPR, S2N
MVH=30.4635
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4−NH3
b6
y13++
y14++
y7−H2O
y15++
y16++−H2O
y16++
y17++−H2O
y17++
y18++

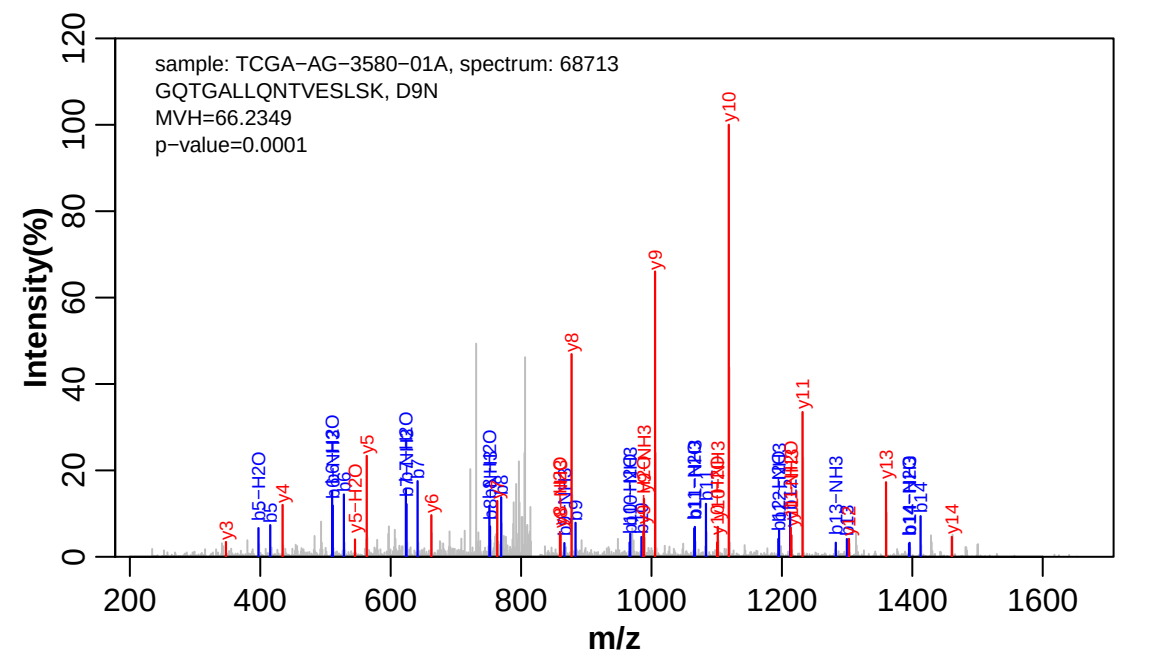

sample: TCGA−AG−3580−01A, spectrum: 35025
FPGPCDYNFASDCR, L4P
MVH=40.0915
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
y4
b5
y5
b6−H2O
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9−H2O
y9
b10
y10
b12−NH3
b12−H2O
b12
y11
y12

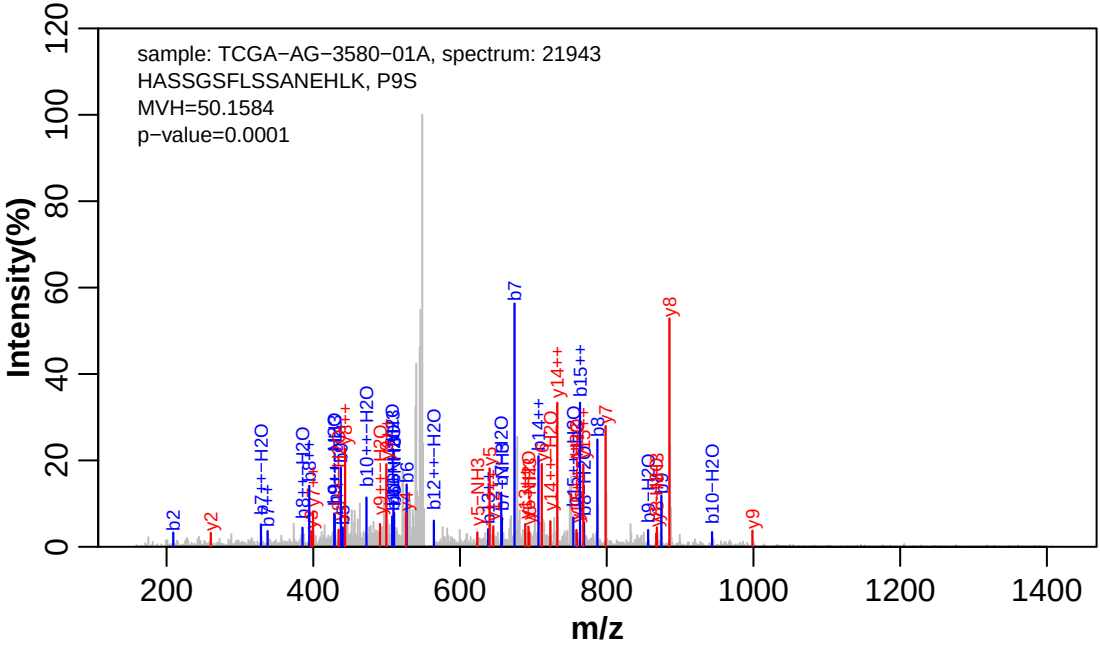

sample: TCGA−AG−3580−01A, spectrum: 68669
FQPQSADFLDLTNPK, P6A
MVH=45.3743
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y9
y11
y13

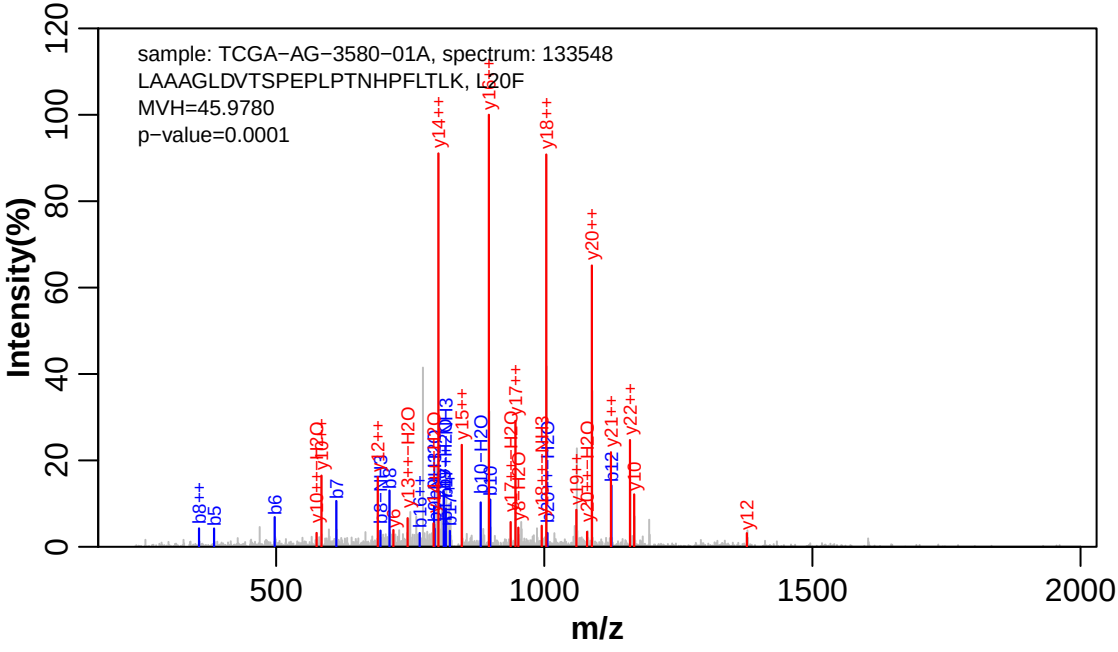

sample: TCGA−AG−3580−01A, spectrum: 126383
FTVGDHSR, I3V
MVH=34.1752
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
y5
y6

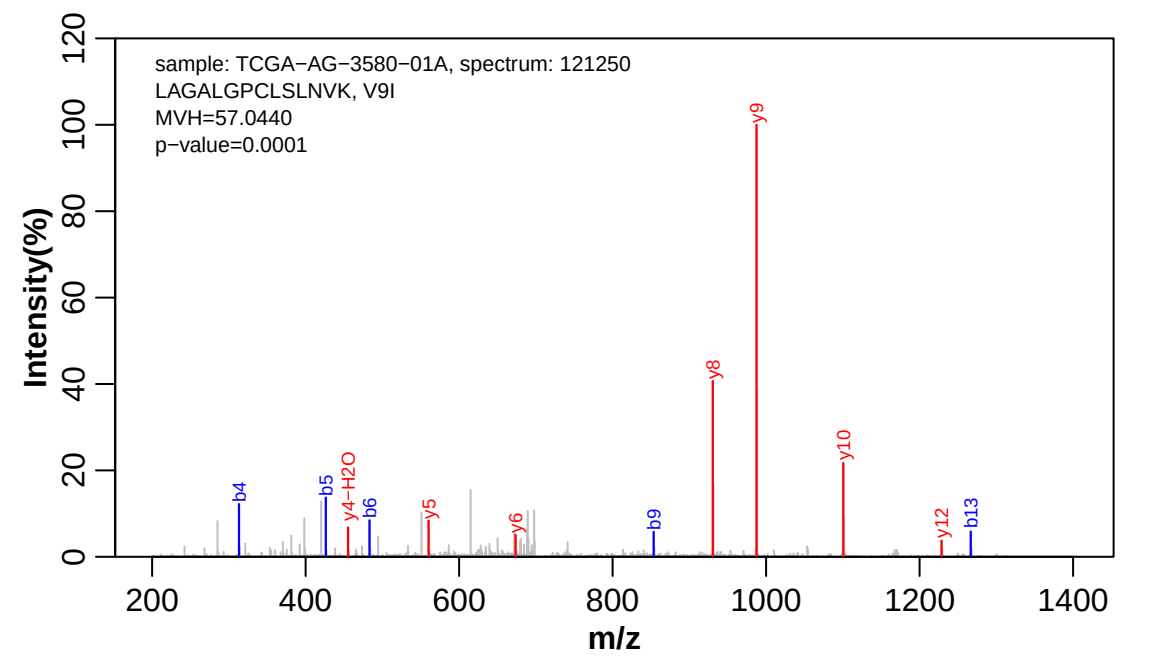

sample: TCGA−AG−3580−01A, spectrum: 90357
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=61.0955
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6−H2O
y6
b7
b8−H2O
y8−NH3
y8
y9
b10−NH3
b10
b11−NH3
b11−H2O
b12−NH3
b12−H2O
b13
y12−NH3
y12−H2O
y12
y10
y11
y13
b14
b15−H2O
b15−NH3
y14−NH3
b16
y15
b17−NH3
b17−H2O
b17
y16
b18−NH3
b18−H2O
b18
y17−NH3
y17
b19−NH3
b19
y18
b20−H2O−NH3
b20
y20−H2O
y20
b21−H2O
b21
b22−H2O
b22−NH3
y21

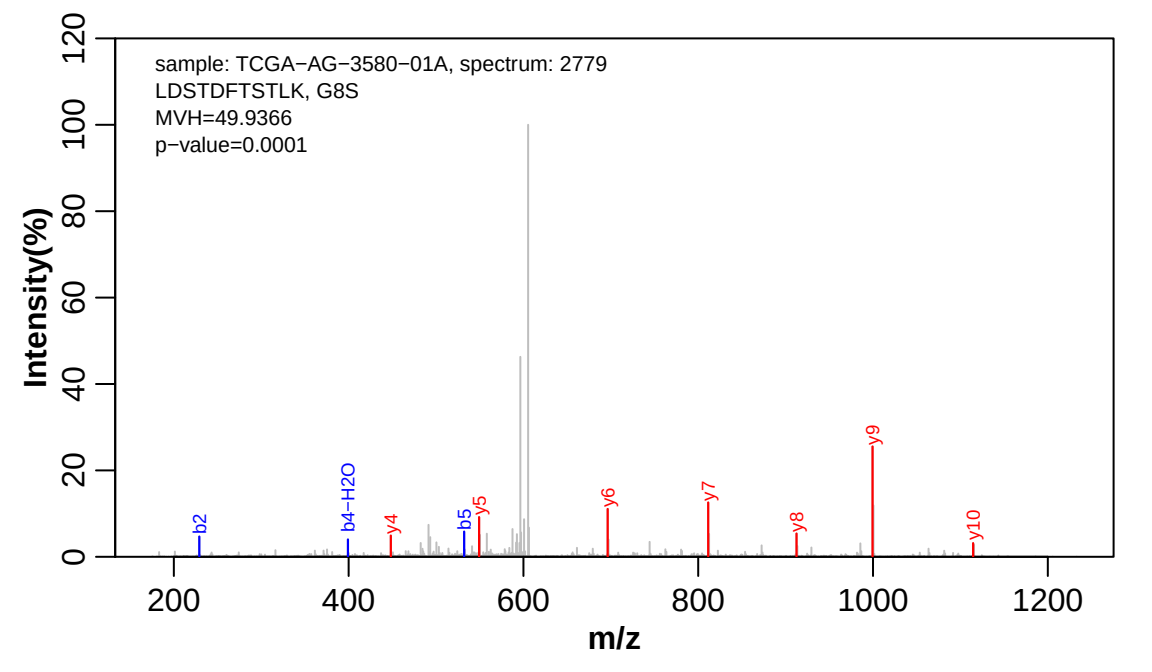

sample: TCGA−AG−3580−01A, spectrum: 25602
GFGTDEQALLDCLGSCSNK, R16C
MVH=59.8553
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y3
y7++
y9
y11

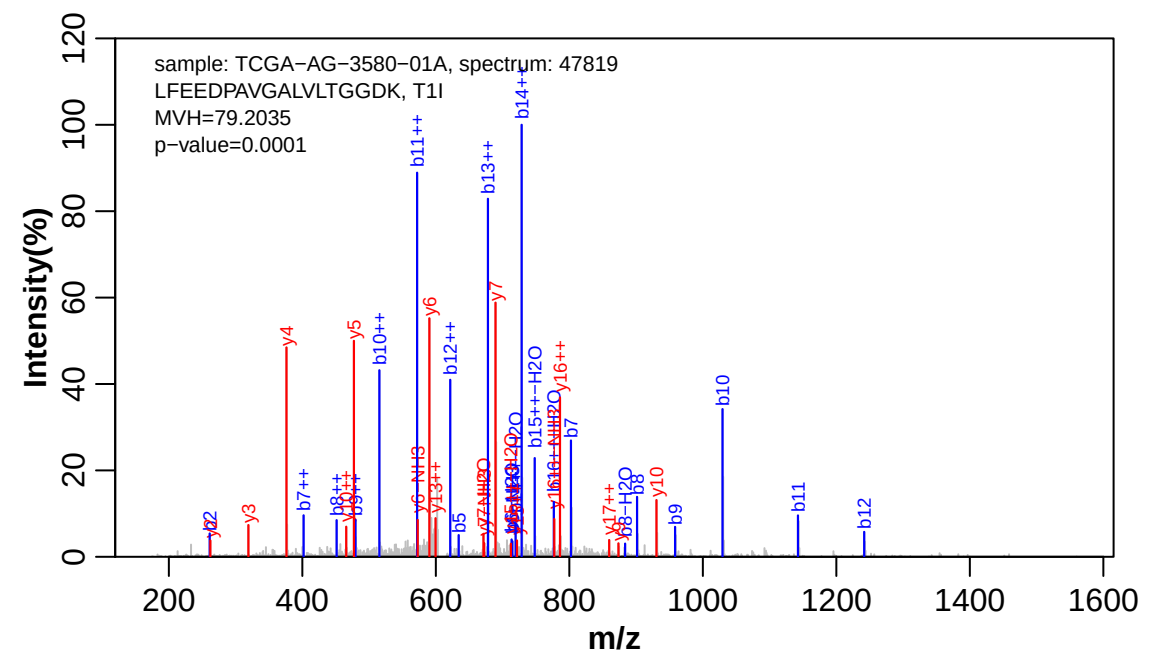

sample: TCGA−AG−3580−01A, spectrum: 68713
GQTGALLQNTVESLSK, D9N
MVH=66.2349
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y6
y3
y4
b5−H2O
b5
b6
b6−NH3
b6−H2O
b7
b7−NH3
b7−H2O
b8
b8−NH3
b8−H2O
b9
b9−NH3
b9−H2O
b10−H2O
b10
b11−NH3
b11
b11−H2O
b12−NH3
b12
b12−H2O
b13−NH3
b13
b14−NH3
b14
b14−H2O
y5−H2O

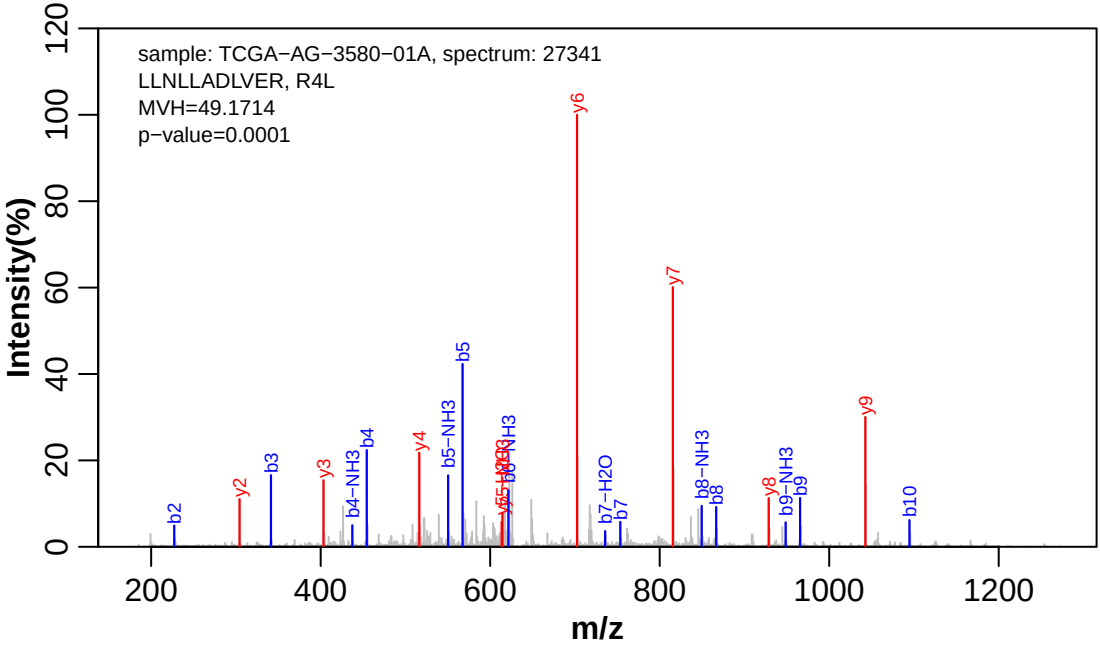

sample: TCGA−AG−3580−01A, spectrum: 21943
HASSGSFLSSANEHLK, P9S
MVH=50.1584
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b7++−H2O
b8++−H2O
b10++−H2O
b12++−H2O
b7
y8
b15++
y14++
y7
b10−H2O
y9

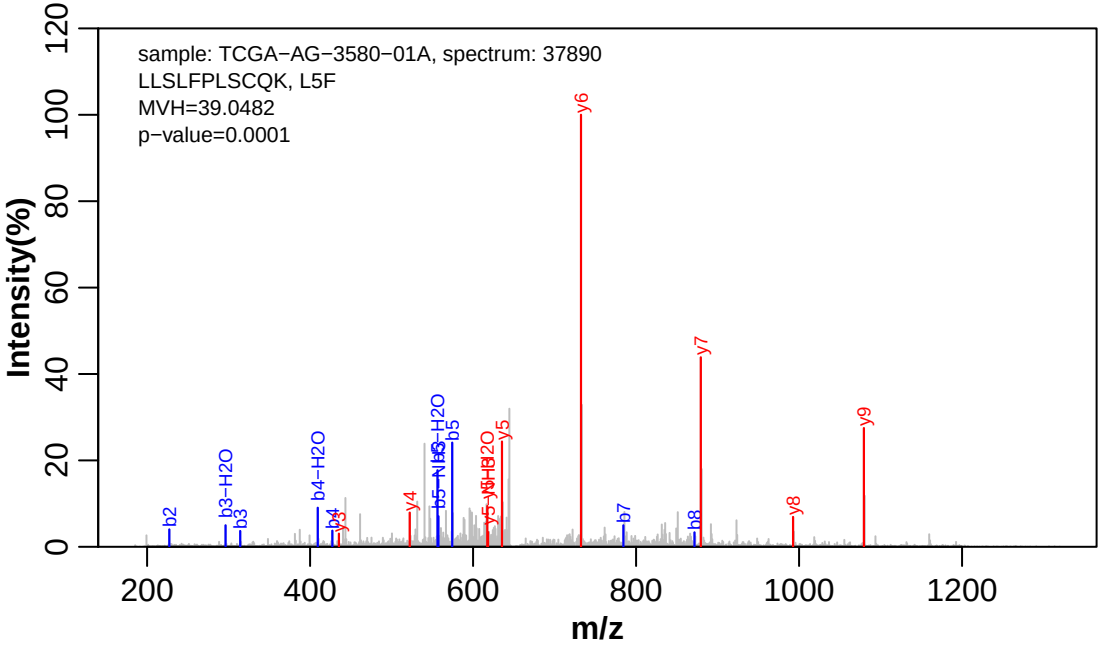

sample: TCGA−AG−3580−01A, spectrum: 133548
LAAAGLDVTSPEPLPTNHPFLTLK, F20F
MVH=45.9780
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y14++
y16++
y18++
y20++
y15++
y17++
y21++
y22++
y12
b8++
b5
b6
b7
b10−H2O
y10++
y13++−H2O
y6
b16++

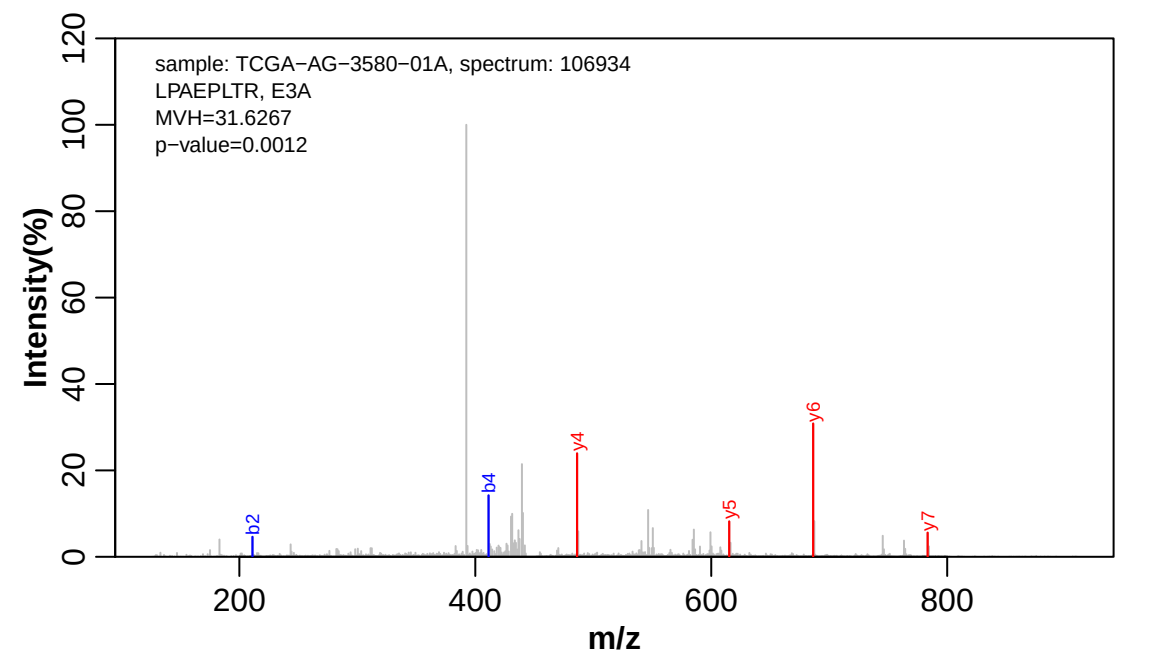

sample: TCGA−AG−3580−01A, spectrum: 121250
LAGALGPCLSLNVK, V9I
MVH=57.0440
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b4
b5
y4−H2O
b6
y5
y6
b9
y8
y9
y10
y12
b13

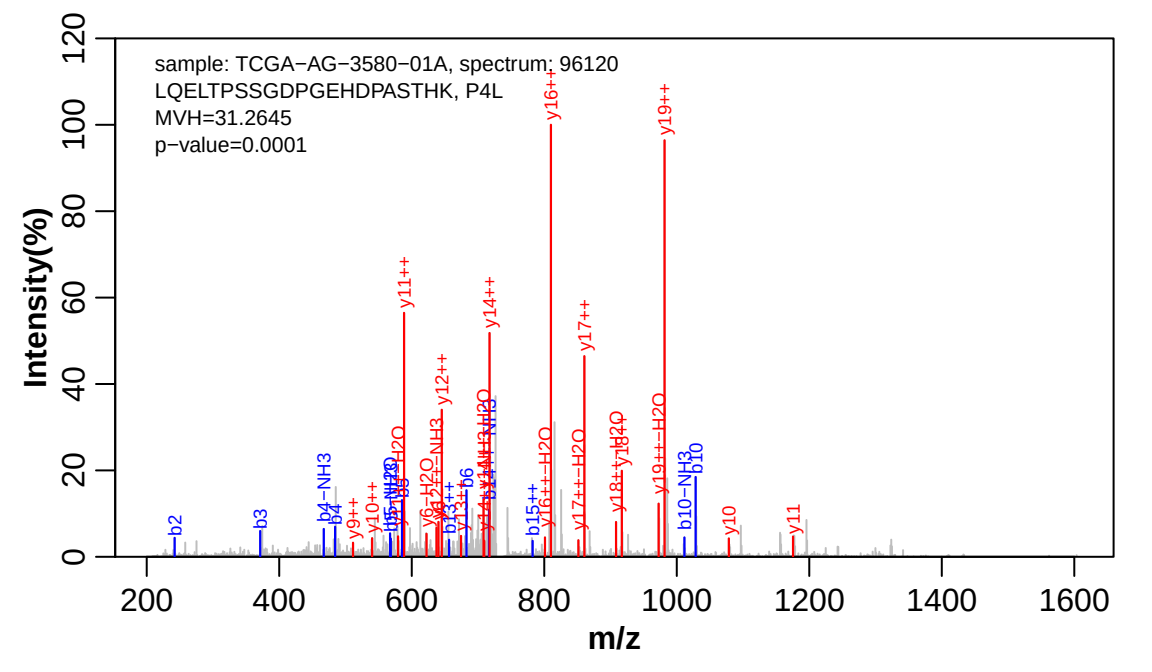

sample: TCGA−AG−3580−01A, spectrum: 2779
LDSTDFTSTLK, G8S
MVH=49.9366
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4−H2O
y4
b5
y5
y6
y7
y8
y9
y10

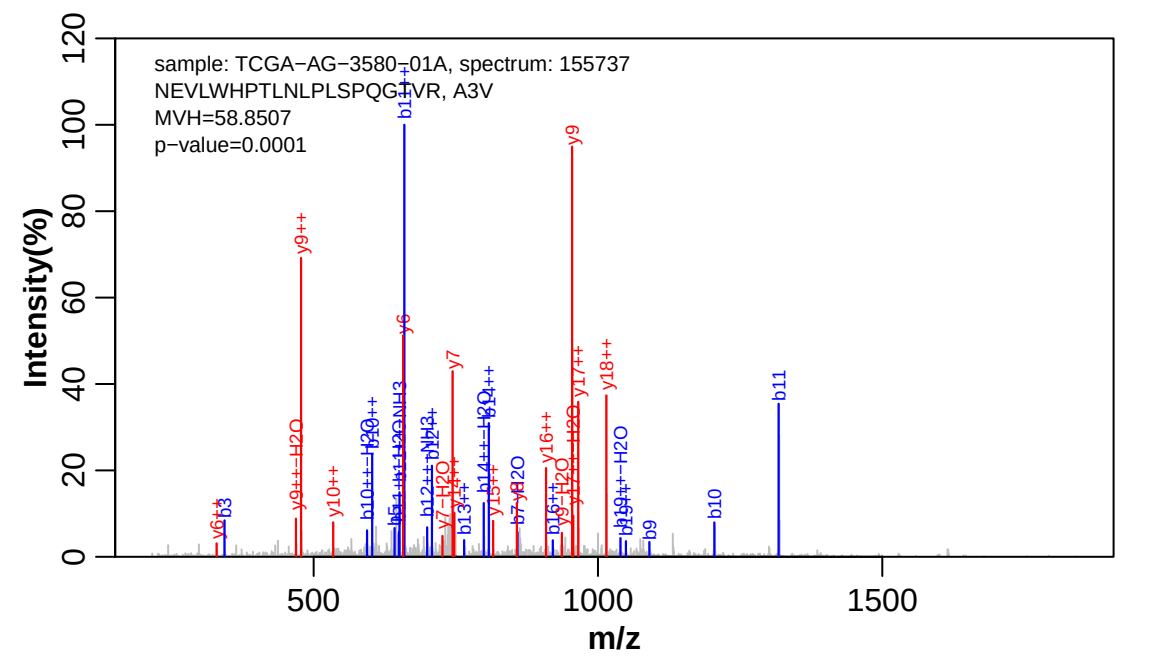

sample: TCGA−AG−3580−01A, spectrum: 47819
LFEEDPAVGALVLTGGDK, T1I
MVH=79.2035
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b14++
b11++
b13++
y6
y7
y4
y5
b10++
b12++
y16++
b15++−H2O
b7
b10
y10
b11
b12
b9
b5
b7++
y3
y2
b2
b8
b8−H2O
y17++

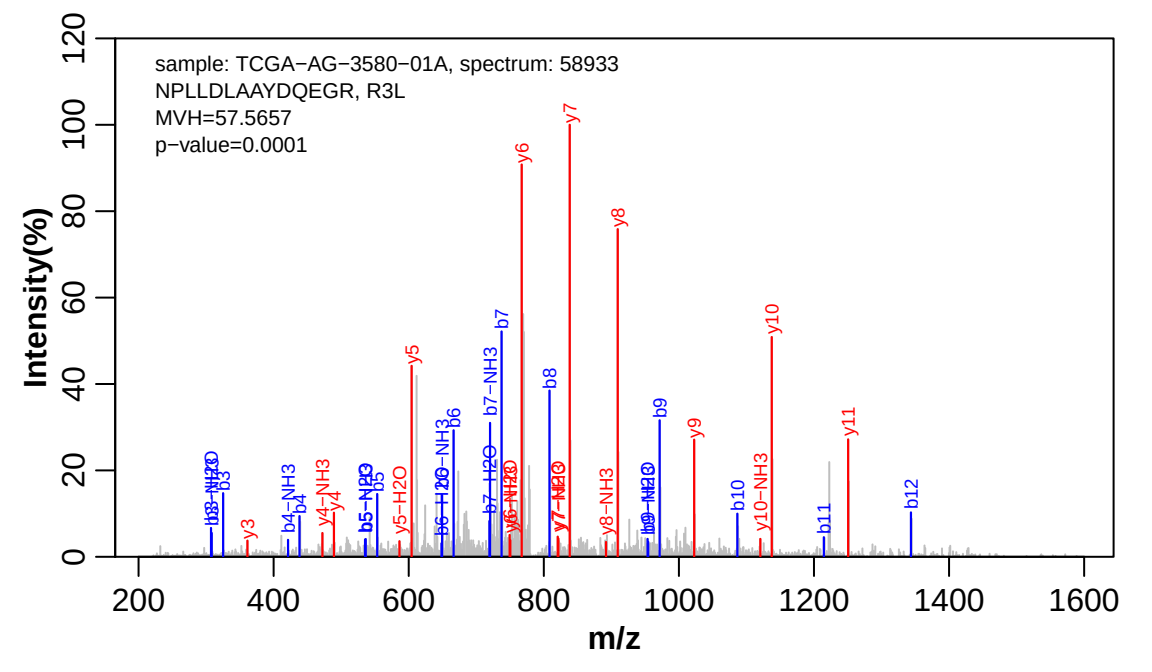

sample: TCGA−AG−3580−01A, spectrum: 27341
LLNLLADLVER, R4L
MVH=49.1714
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y8
y4
y3
y2
b5
b5−NH3
b4
b4−NH3
b3
b2
b7−H2O
b7
b8−NH3
b8
b9−NH3
b9
b10

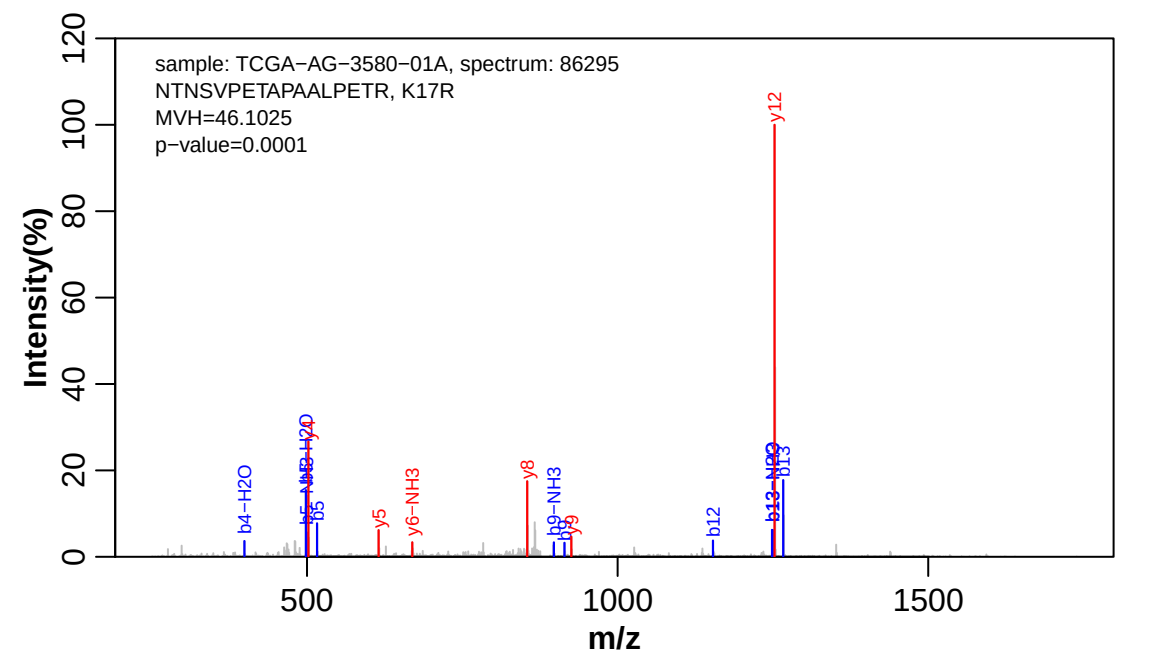

sample: TCGA−AG−3580−01A, spectrum: 37890
LLSLFPLSCQK, L5F
MVH=39.0482
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−H2O
b3
b4−H2O
b4
y3
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5−H2O
y5
b7
y6
b8
y7
y8
y9

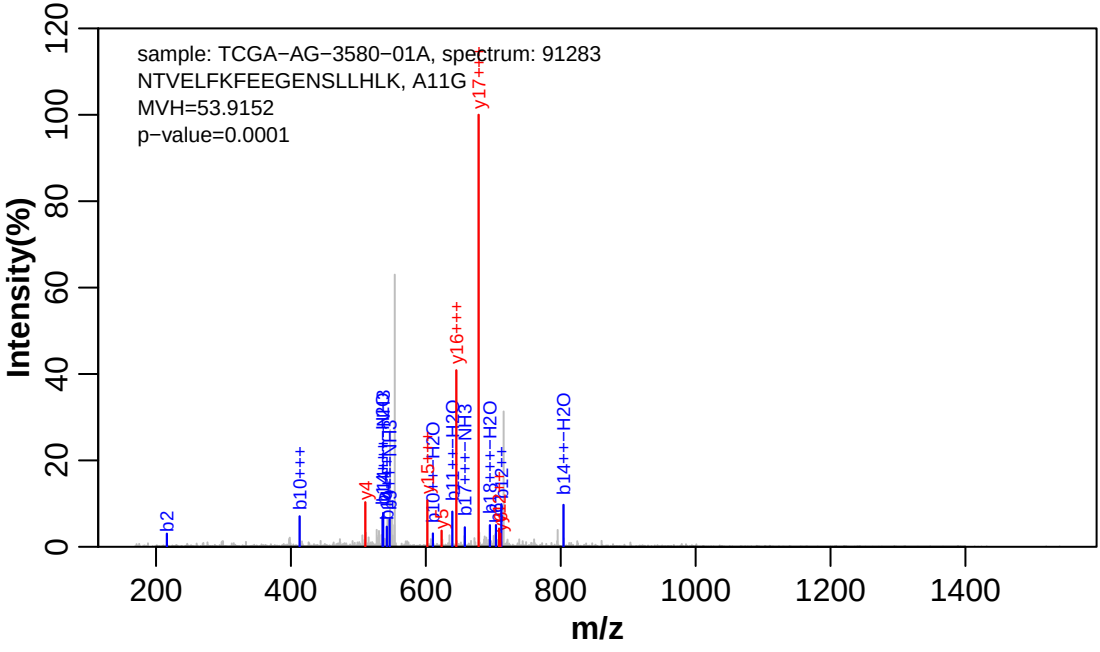

sample: TCGA−AG−3580−01A, spectrum: 106934
LPAEPLTR, E3A
MVH=31.6267
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6
y7

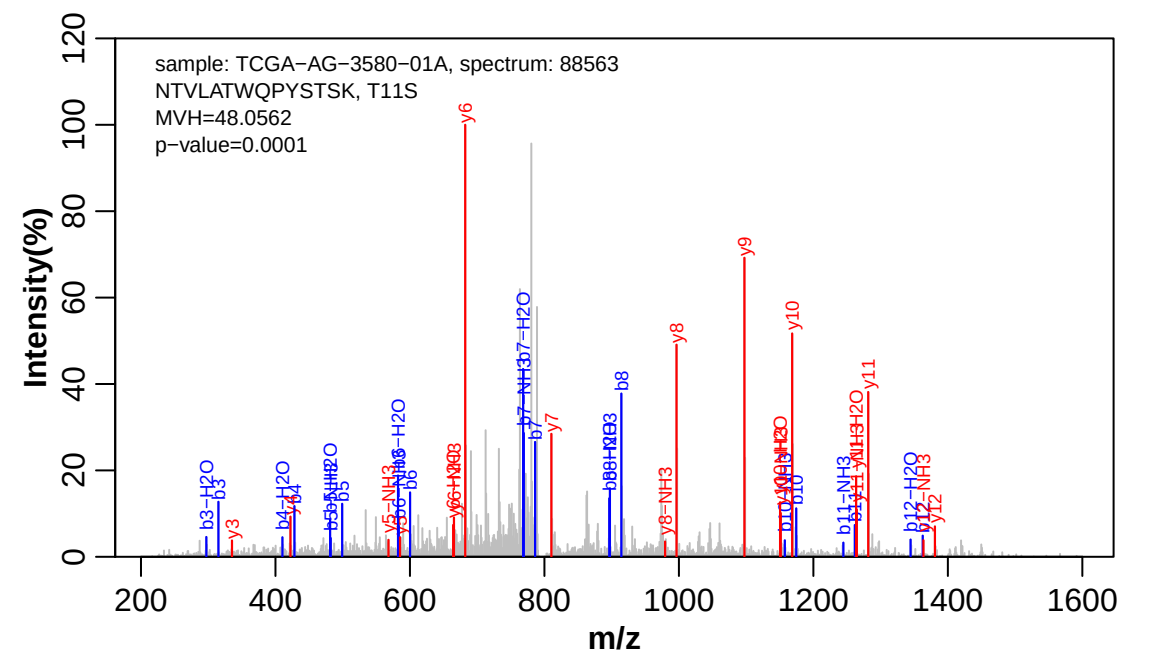

sample: TCGA−AG−3580−01A, spectrum: 96120
LQELTPSSGDPGEHDPASTHK, P4L
MVH=31.2645
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3
b4−NH3
b4
y9++
y10++
y11++
y12++
y14++
y16++
y17++
y19++
y19++−H2O
b10−NH3
b10
y10
y11

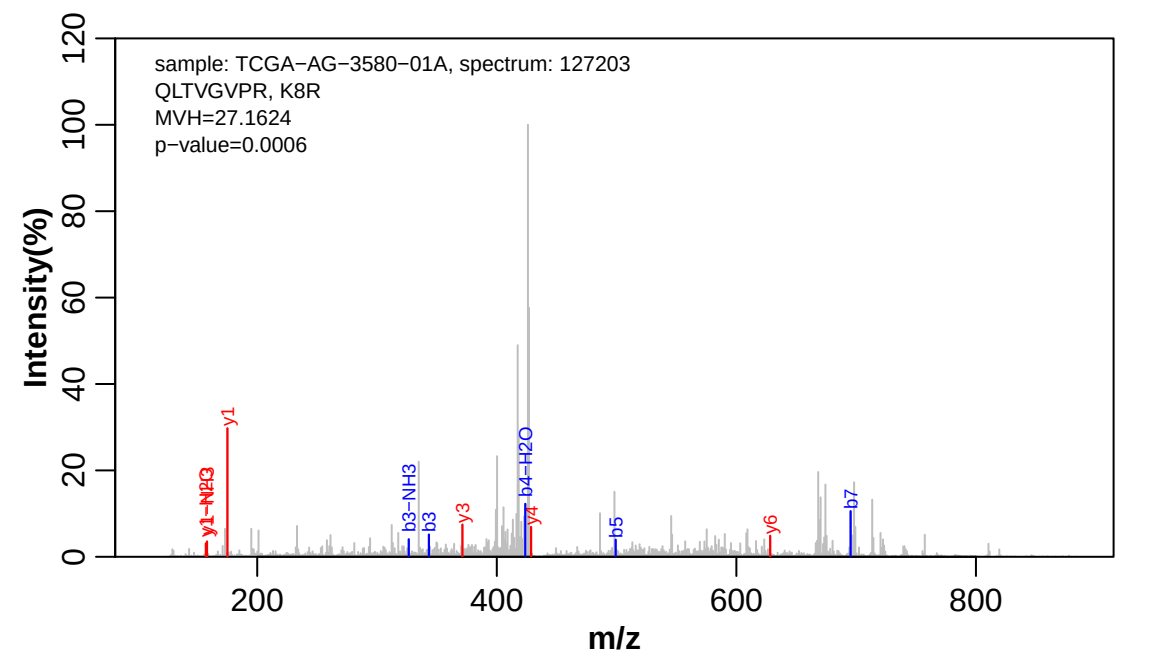

sample: TCGA−AG−3580−01A, spectrum: 155737
NEVLWHPTLNLPLSPQGHVR, A3V
MVH=58.8507
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y9++
y6
y9
y7
y18++
b11
y9++−H2O
y10++
b10
b9
b3
y6++
y16++
y17++
y15++
b13++
b14++
b7++H2O

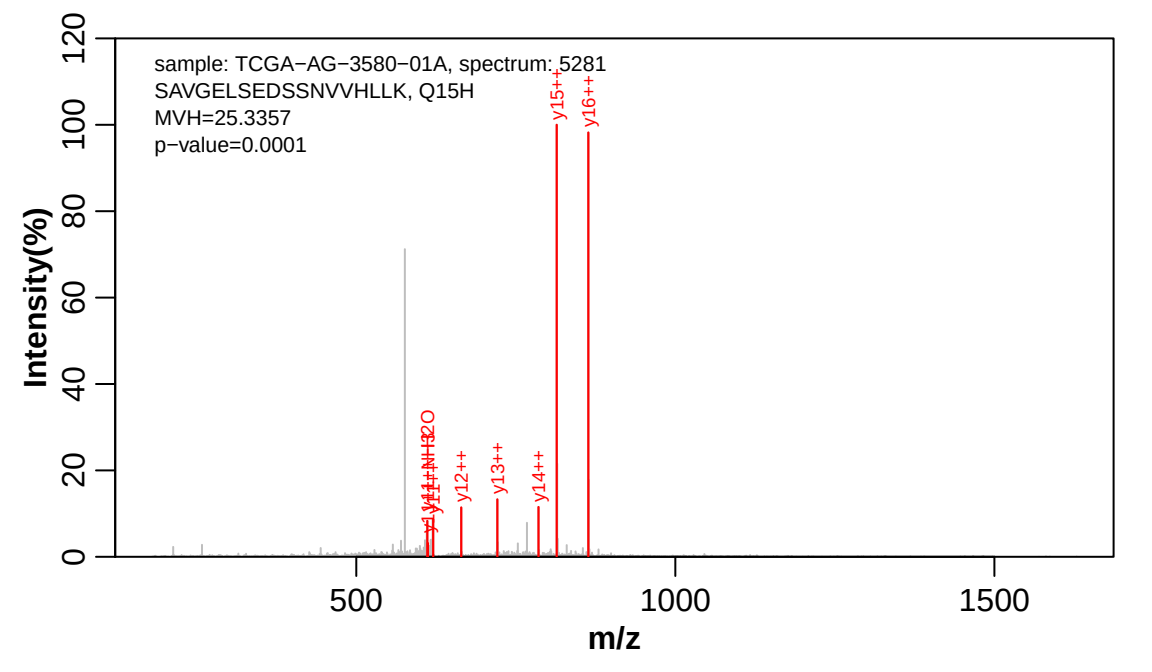

sample: TCGA−AG−3580−01A, spectrum: 58933
NPLLDLAAYDQEGR, R3L
MVH=57.5657
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
b7
b8
y9
y11
b9
b6
b7−NH3
y5−H2O
y8−NH3
b10
y10−NH3
b11
b12
b4−NH3
y4−NH3
y3
b4
y4
b5
b3

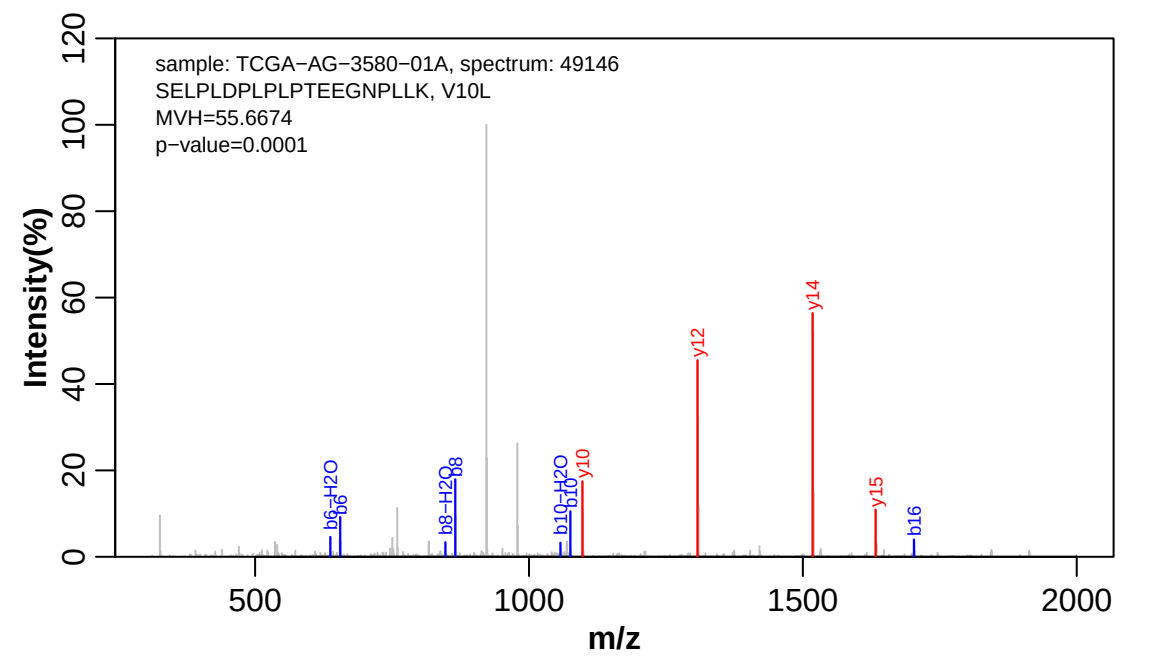

sample: TCGA−AG−3580−01A, spectrum: 86295
NTNSVPETAPAALPETR, K17R
MVH=46.1025
p−value=0.0001
Intensity(%)
m/z
b4−H2O
y5
y6−NH3
y8
b9−NH3
b12
y12
b13

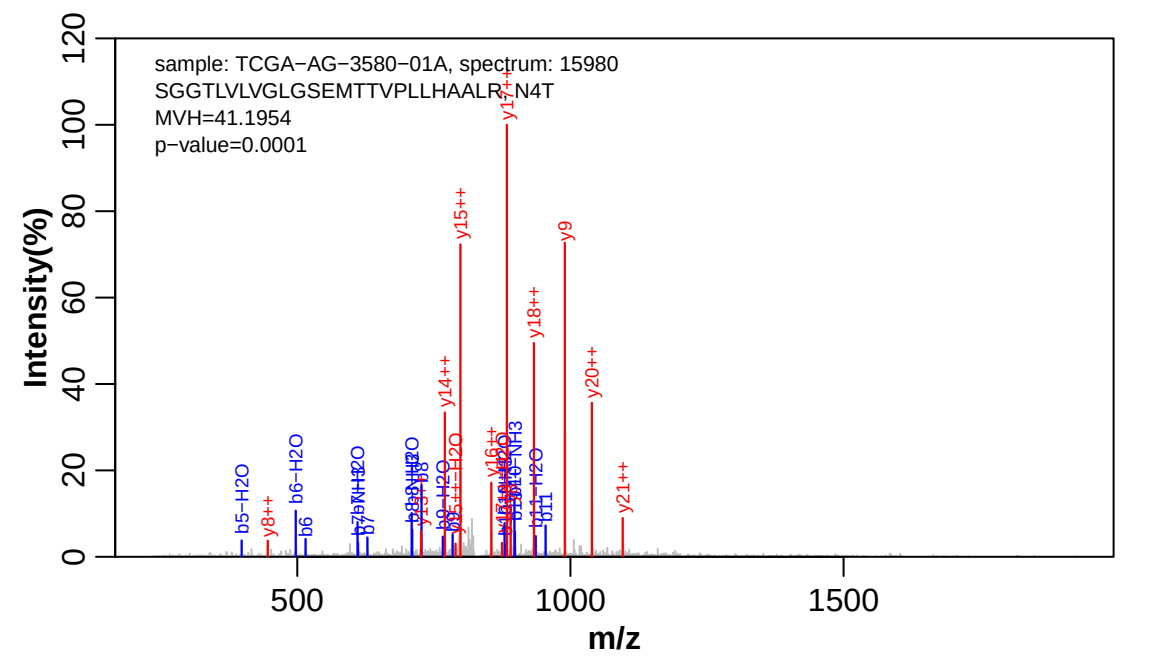

sample: TCGA−AG−3580−01A, spectrum: 91283
NTVELFKFEEGENSLLHLK, A11G
MVH=53.9152
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b10+++
y4
y15++−H2O
y16+++
b11+++−NH3
b11+++−H2O
b18+++−H2O
b14++−H2O
y17++

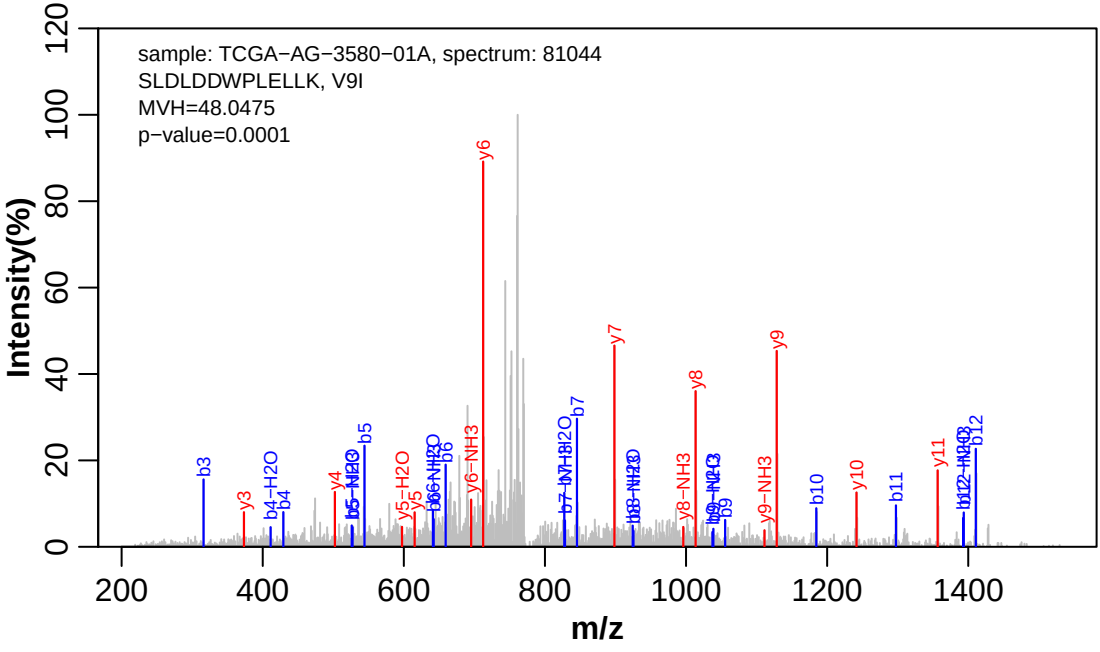

sample: TCGA−AG−3580−01A, spectrum: 88563
NTVLATWQPYSTSK, T11S
MVH=48.0562
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y9
y10
y8
y11
y7
b8
b7
b7−NH3
b7−H2O
b6
b6−H2O
b5
b4
b3
y5−NH3
y8−NH3
b10
b11−NH3
b12−H2O
b12−NH3
y12
y3

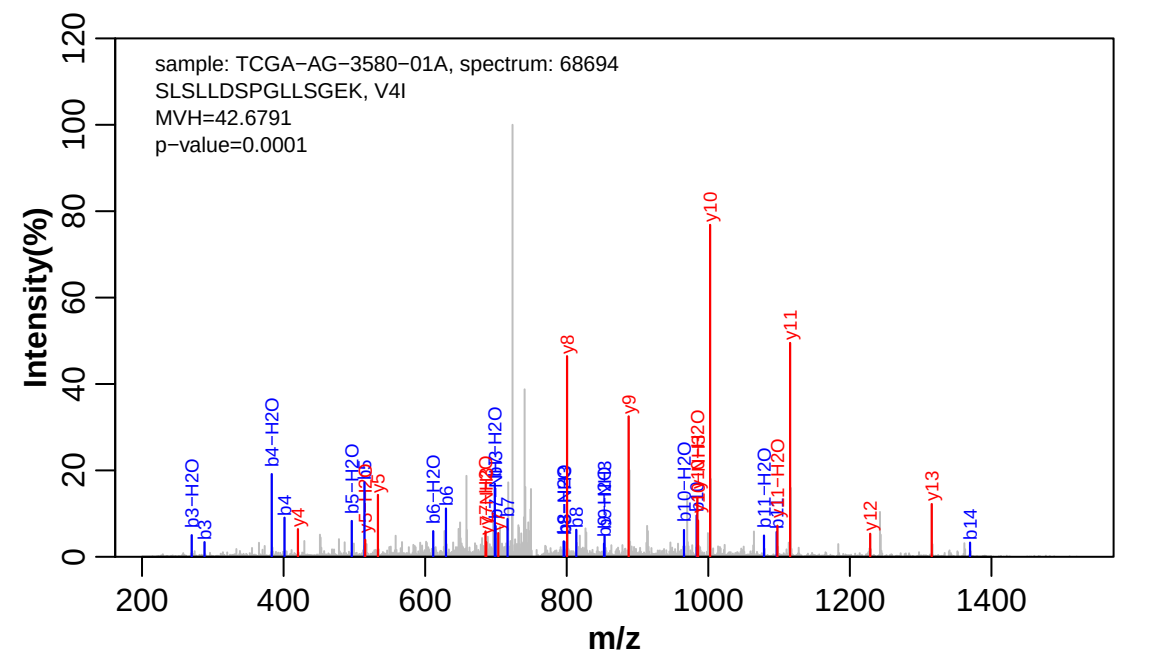

sample: TCGA−AG−3580−01A, spectrum: 127203
QLTVGVPR, K8R
MVH=27.1624
p−value=0.0006
Intensity(%)
m/z
y1
y1−NH3
b3−NH3
b3
y3
y4
b4−H2O
b5
y6
b7

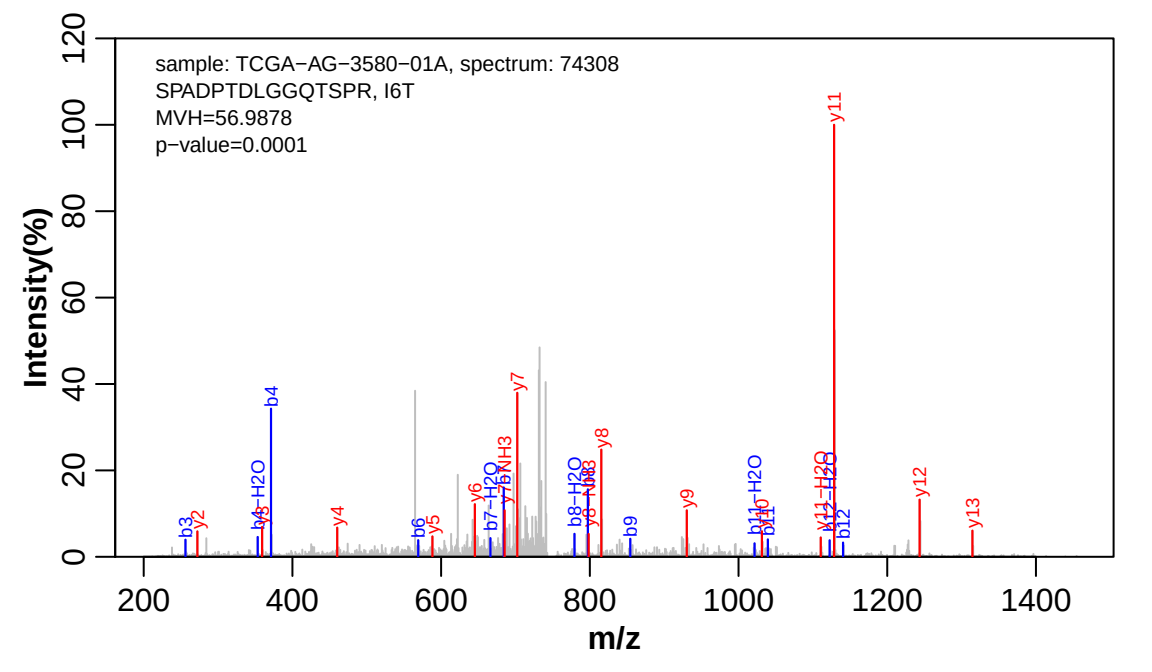

sample: TCGA−AG−3580−01A, spectrum: 5281
SAVGELSEDSSNVVHLLK, Q15H
MVH=25.3357
p−value=0.0001
y15++
y16++
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

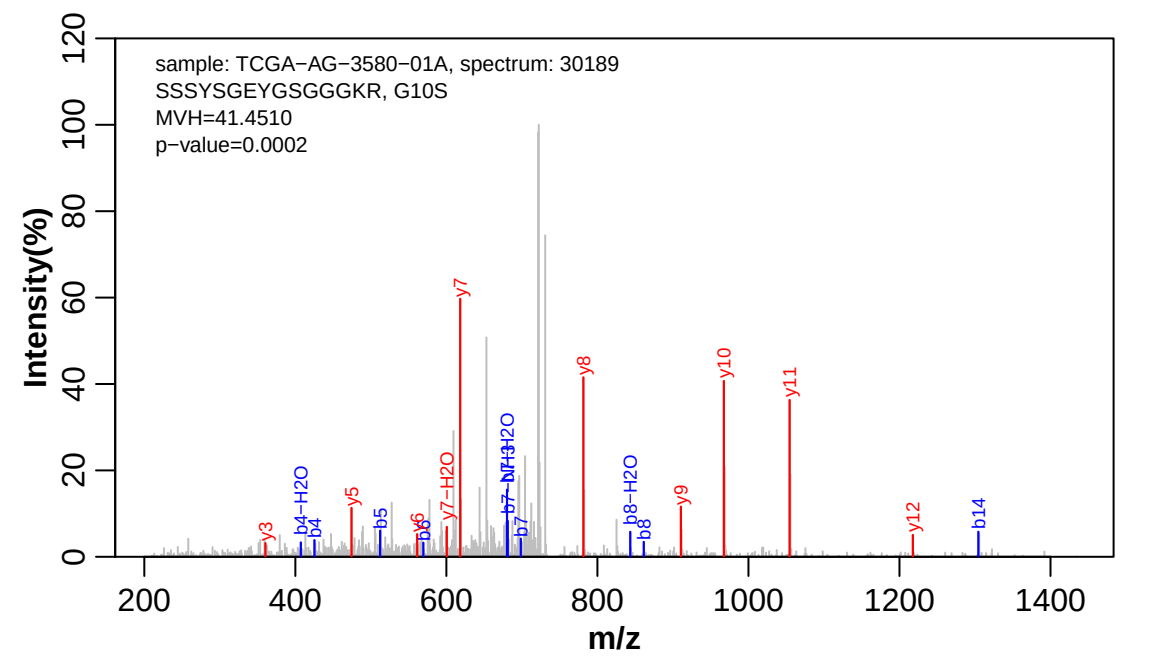

sample: TCGA−AG−3580−01A, spectrum: 49146
SELPLDPLPLPTEEGNPLLK, V10L
MVH=55.6674
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b6−H2O
b6
b8−H2O
b8
b10−H2O
b10
y10
y12
y14
y15
b16

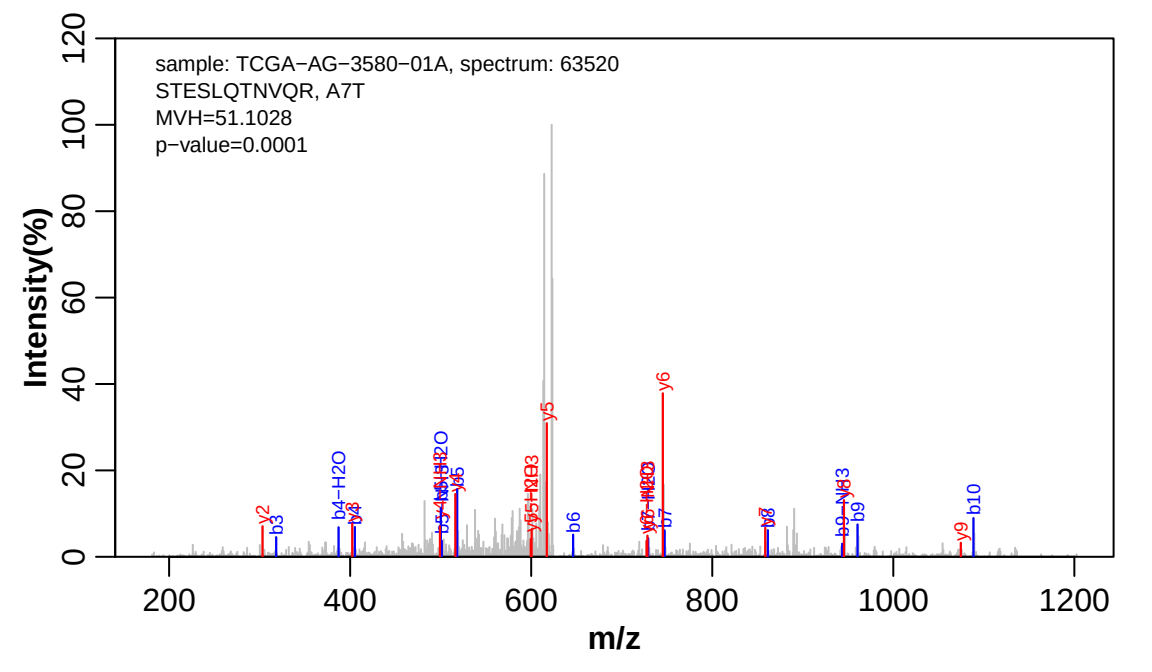

sample: TCGA−AG−3580−01A, spectrum: 15980
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=41.1954
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y14++
y21++
b5−H2O
y8++
b6−H2O
b6
b7
b11
y11−H2O

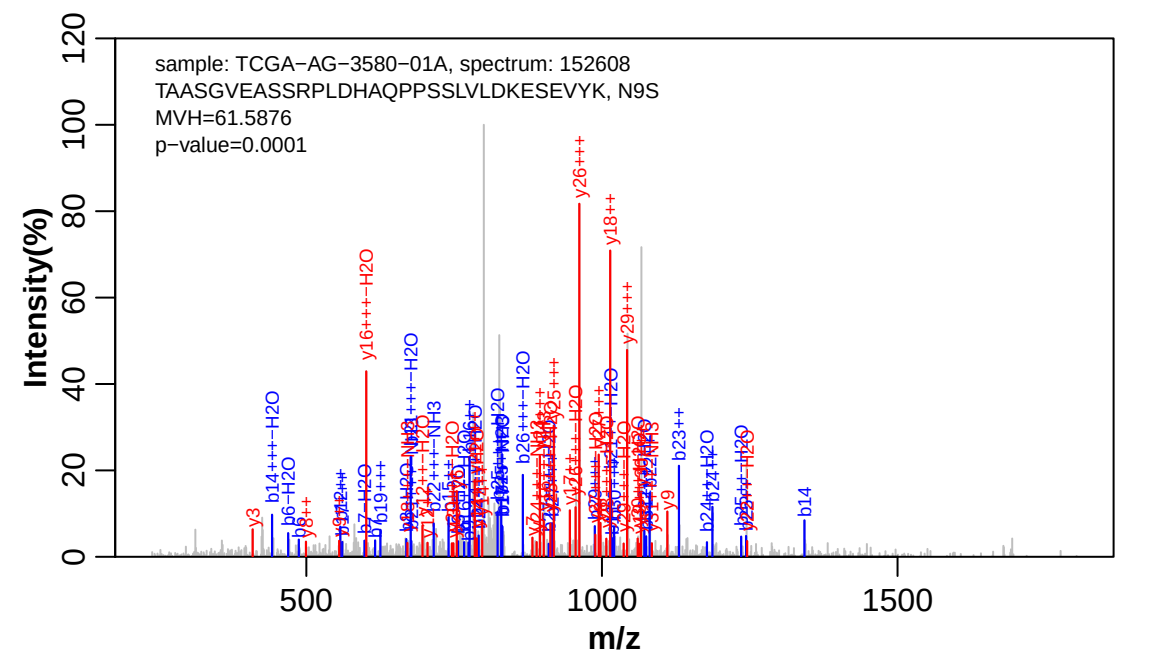

sample: TCGA−AG−3580−01A, spectrum: 81044
SLDLDDWPLELLK, V9I
MVH=48.0475
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y5−H2O
y5
b6
y6−NH3
y6
b7
y7
y8
y8−NH3
y9
y9−NH3
b10
y10
b11
y11
b12

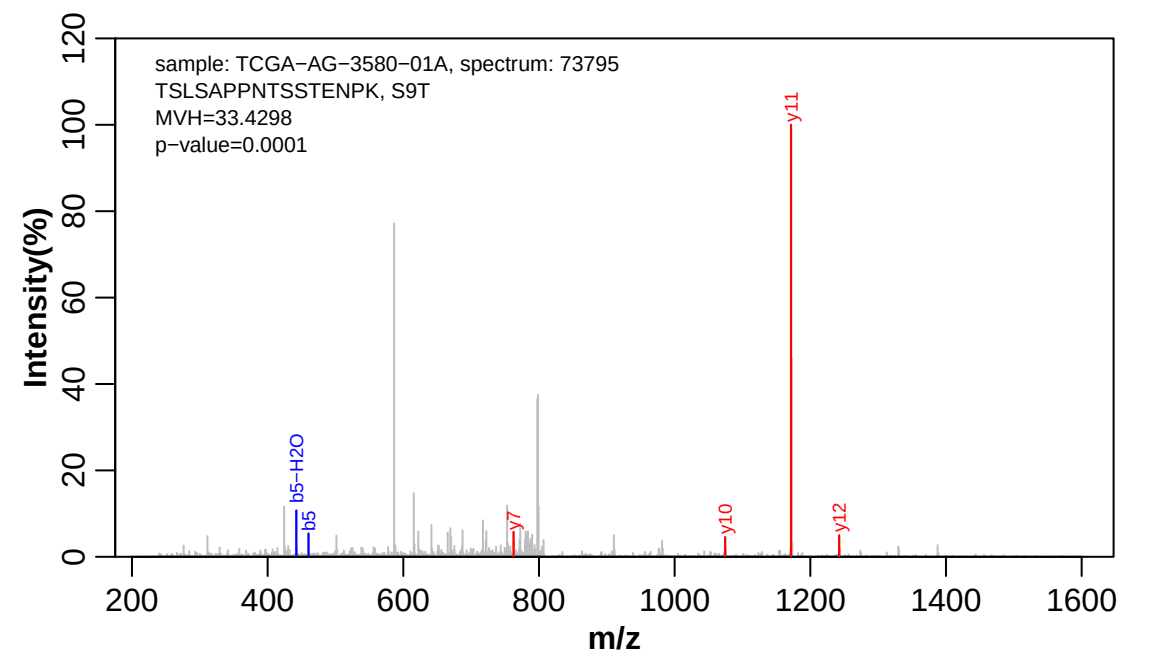

sample: TCGA−AG−3580−01A, spectrum: 68694
SLSLLDSPGLLSGEK, V4I
MVH=42.6791
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
y5−H2O
y5
b6−H2O
b6
b7−H2O
b7
y8
y9
y10
y11
b10−H2O
b11−H2O
y11−H2O
y12
y13
b14

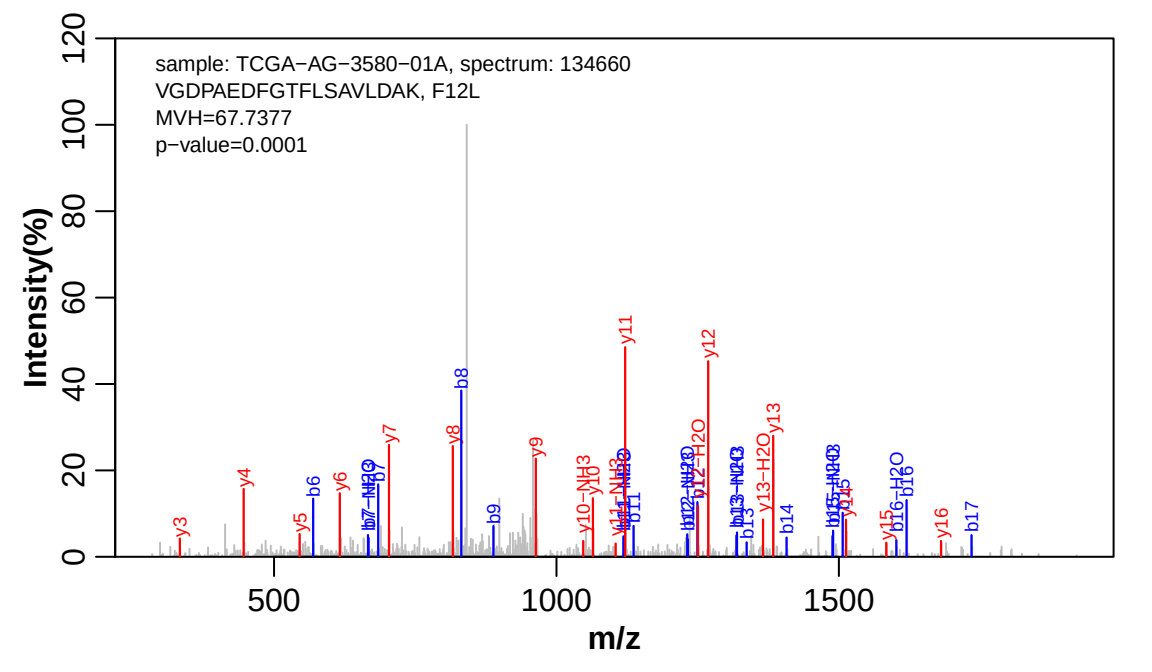

sample: TCGA−AG−3580−01A, spectrum: 74308
SPADPTDLGGQTSPR, I6T
MVH=56.9878
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
b4
b4−H2O
y4
b6
y5
y6
b7−H2O
y7
y7−NH3
y8
b8−H2O
b8−NH3
y8−NH3
b9
y9
b11−H2O
b11
b10
y11
y11−H2O
y12−H2O
b12
y12
y13

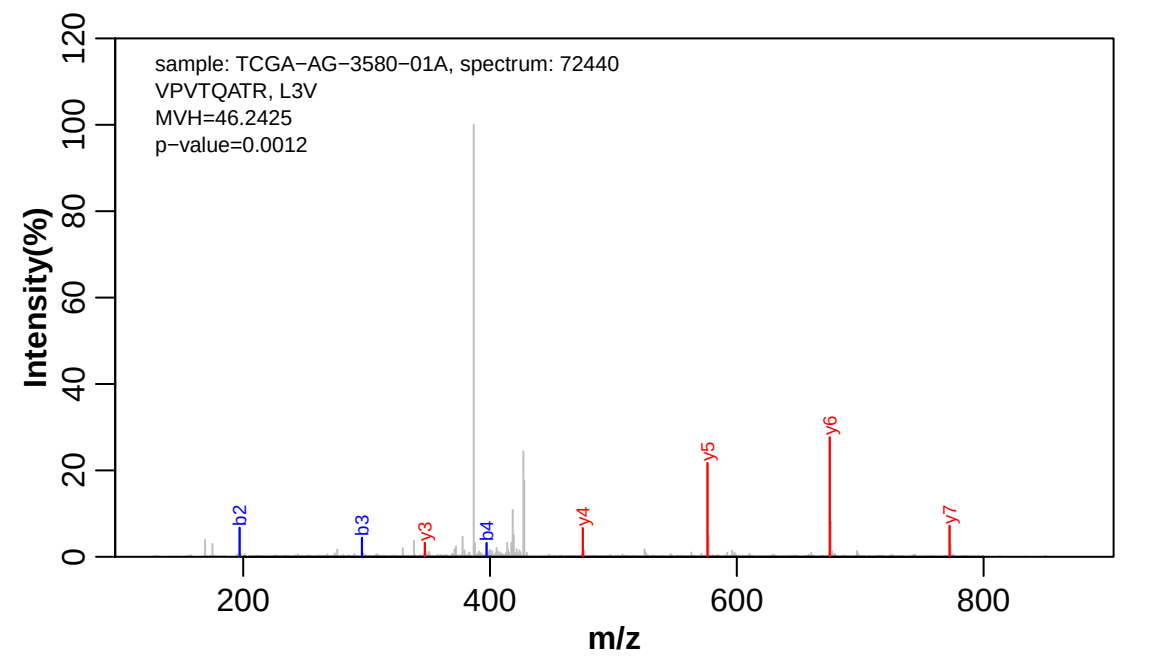

sample: TCGA−AG−3580−01A, spectrum: 30189
SSSYSGEYGSGGGKR, G10S
MVH=41.4510
p−value=0.0002
Intensity(%)
m/z
y3
b4−H2O
b4
y5
b5
b6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−H2O
b8
y9
y10
y11
y12
b14

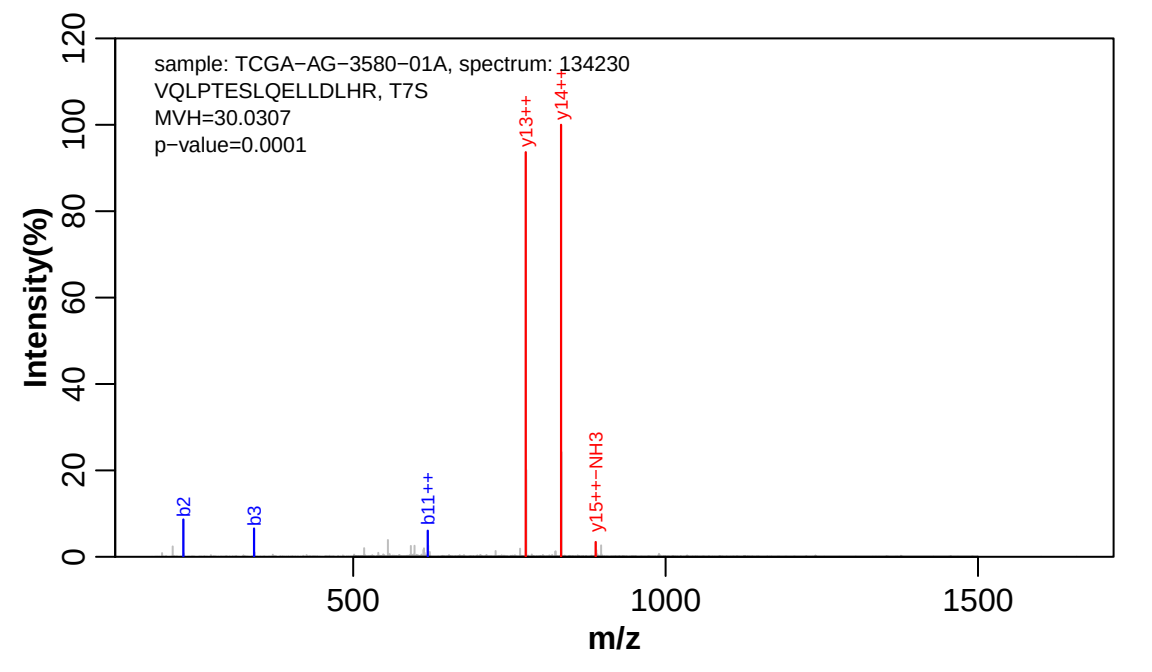

sample: TCGA−AG−3580−01A, spectrum: 63520
STESLQTNVQR, A7T
MVH=51.1028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
b4−H2O
b4
y5
b6
y6
b7
b8
b9−NH3
b9
b10
y9

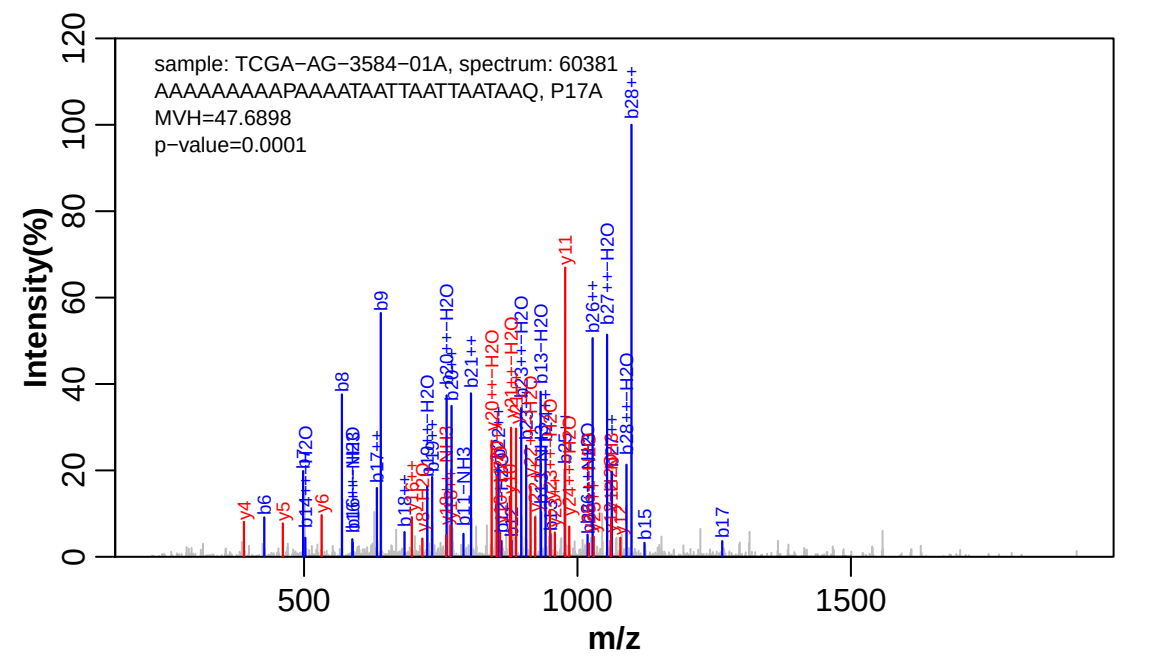

sample: TCGA−AG−3580−01A, spectrum: 152608
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=61.5876
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b14+++−H2O
b6−H2O
y8++
y16+++−H2O
b19+++
y26+++
y18++
y29+++
b23++
b14

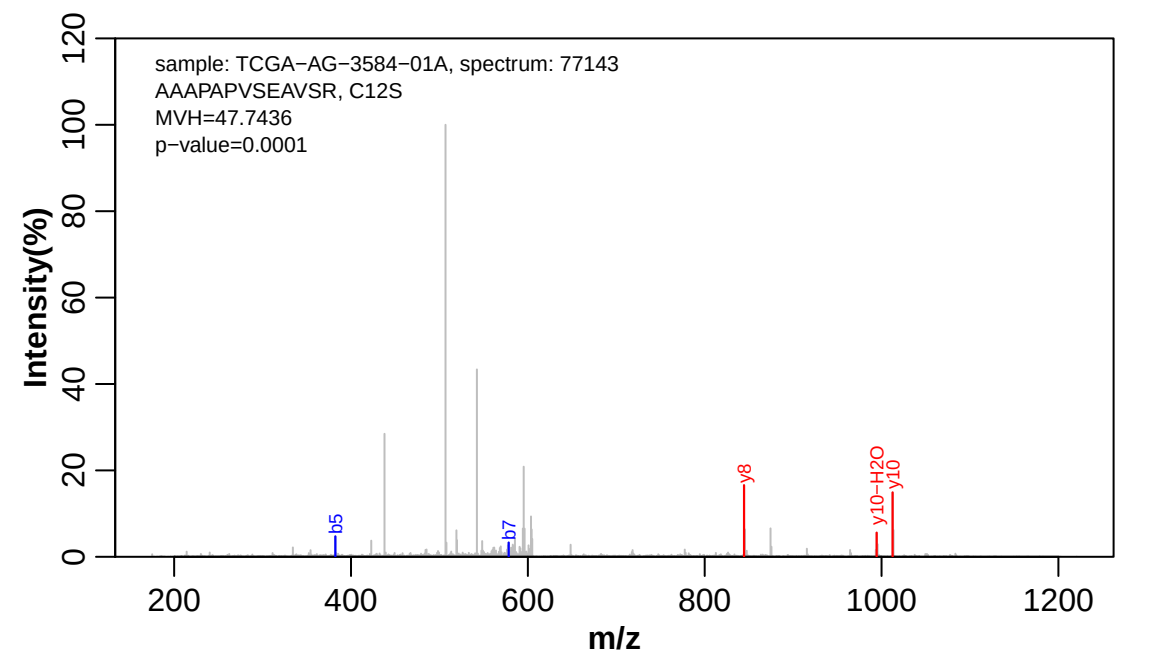

sample: TCGA−AG−3580−01A, spectrum: 73795
TSLSAPPNTSSTENPK, S9T
MVH=33.4298
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y7
y10
y11
y12

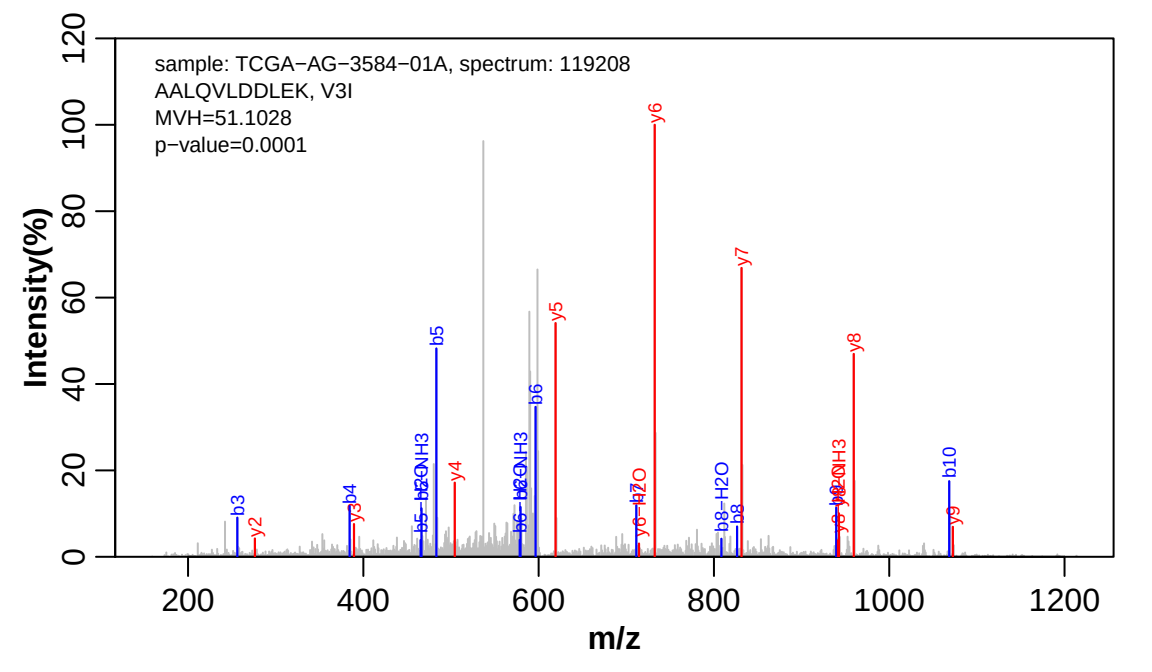

sample: TCGA−AG−3580−01A, spectrum: 134660
VGDPAEDFGTFLSAVLDAK, F12L
MVH=67.7377
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b6
y6
b7
y7
y8
b8
b9
y9
y10−NH3
y10
y11
y12
y12−H2O
y13
y13−H2O
b14
y15
b16
b16−H2O
y16
b17

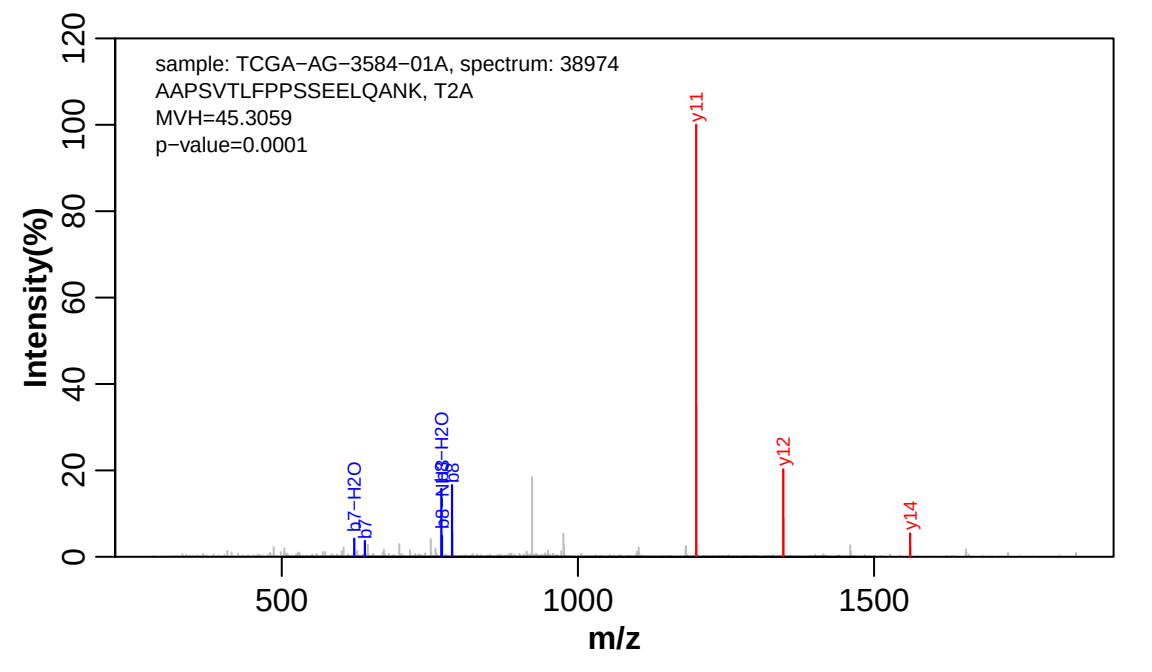

sample: TCGA−AG−3580−01A, spectrum: 72440
VPVTQATR, L3V
MVH=46.2425
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4
y4
y5
y6
y7

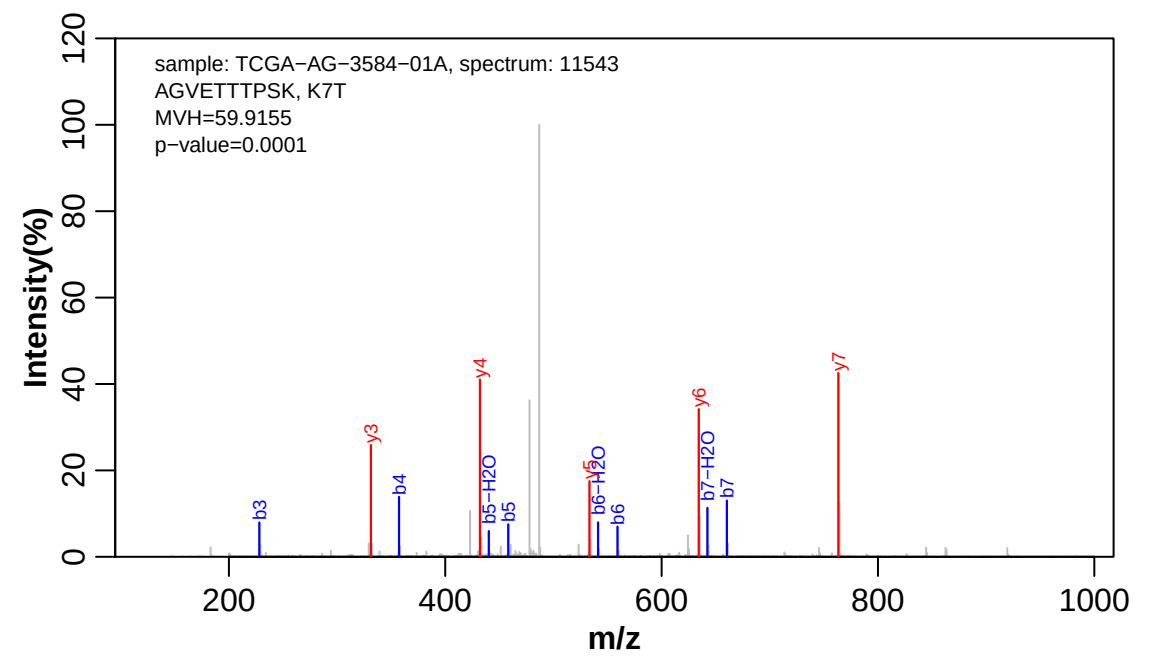

sample: TCGA−AG−3580−01A, spectrum: 134230
VQLPTESLQELLDLHR, T7S
MVH=30.0307
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
b11++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

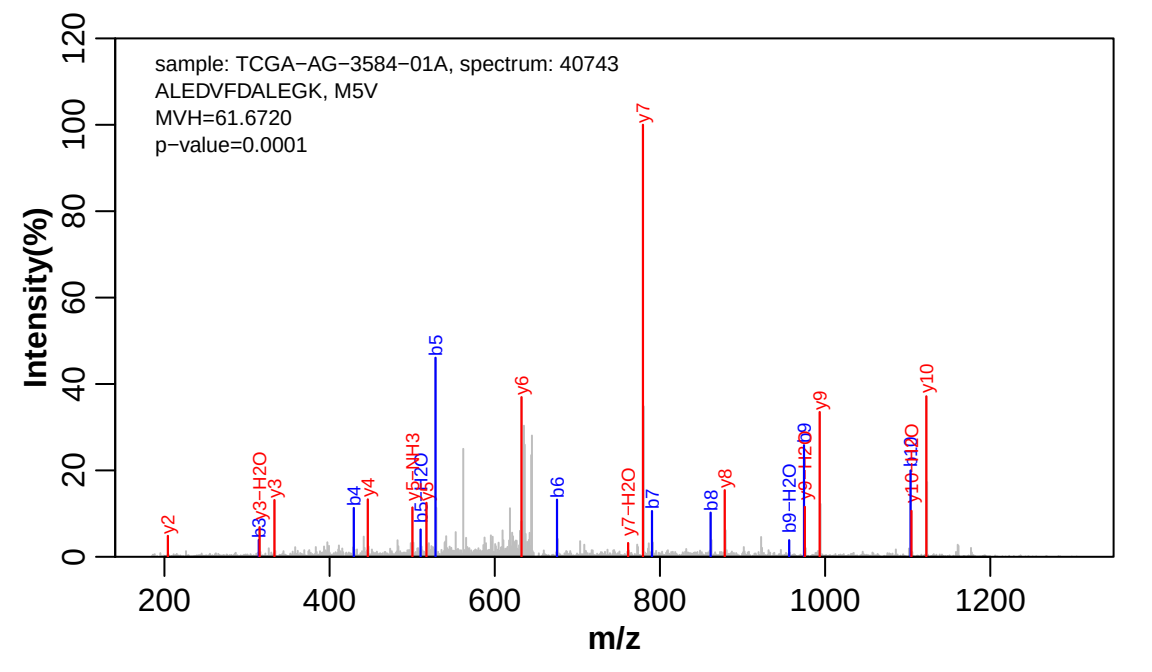

sample: TCGA−AG−3584−01A, spectrum: 60381
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=47.6898
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
y11
b26++
b27++−H2O
b28++−H2O
b15
b17
b9
b8
y4
b6
y5
y6
b21++
b20++−H2O
b13−H2O
b11−NH3
b18++
b17++
b14++−H2O

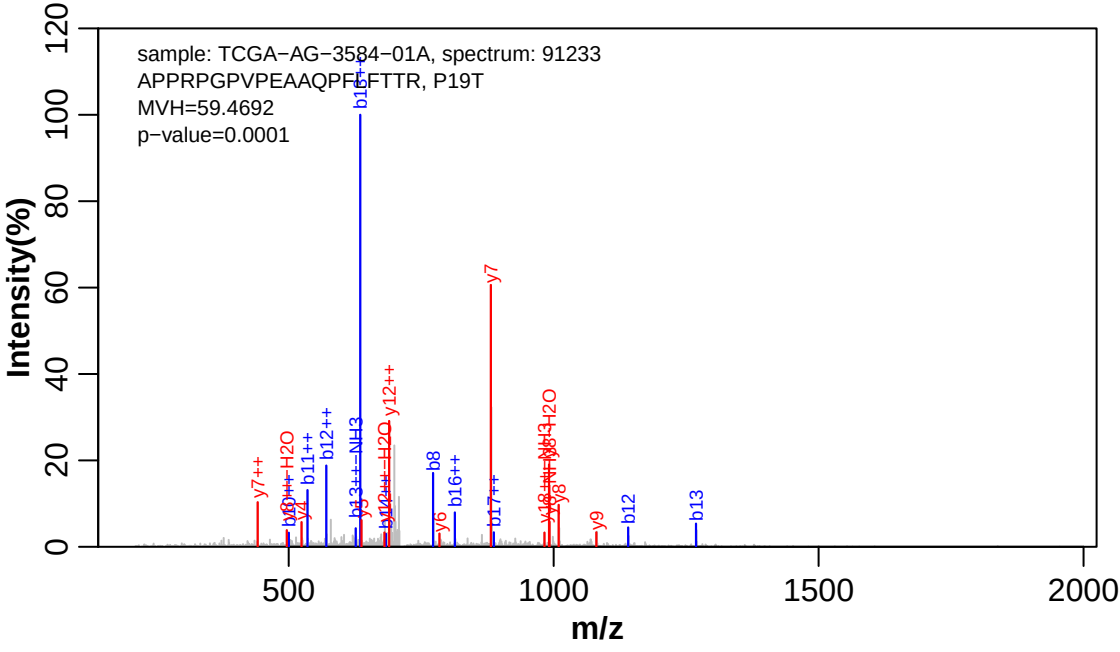

sample: TCGA−AG−3584−01A, spectrum: 77143
AAAPAPVSEAVSR, C12S
MVH=47.7436
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10−H2O
y10

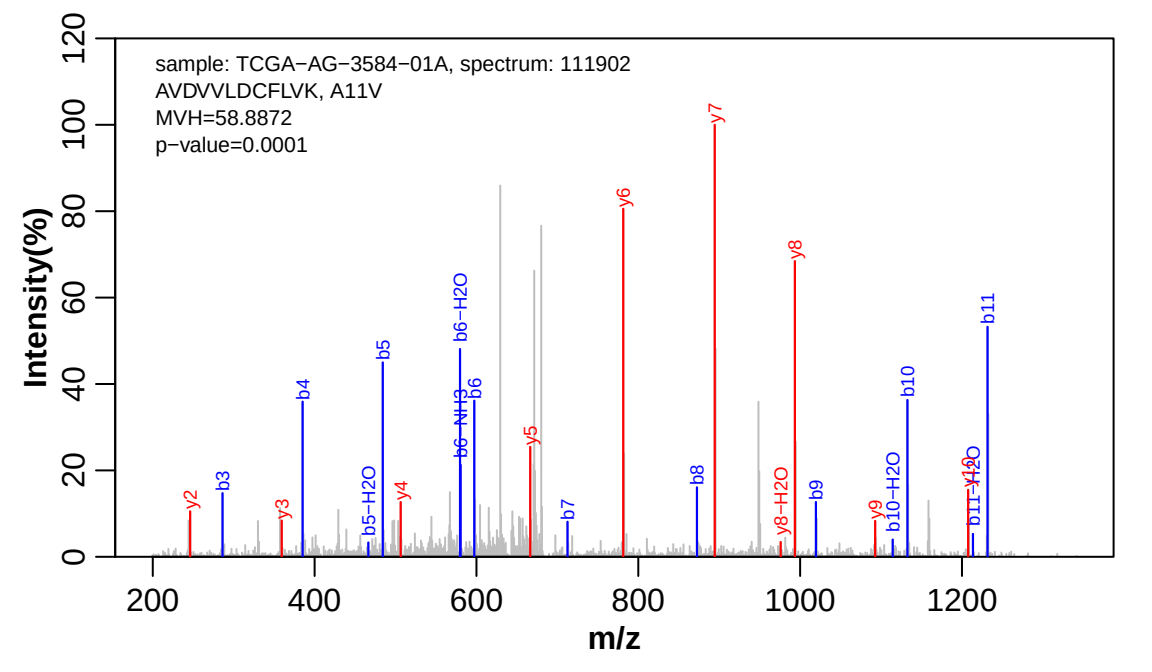

sample: TCGA−AG−3584−01A, spectrum: 119208
AALQVLDDLEK, V3I
MVH=51.1028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y2
b4
y3
b5
y4
b6
y5
y6
y7
y8
b10
y9
b8−H2O
b8
y6−H2O

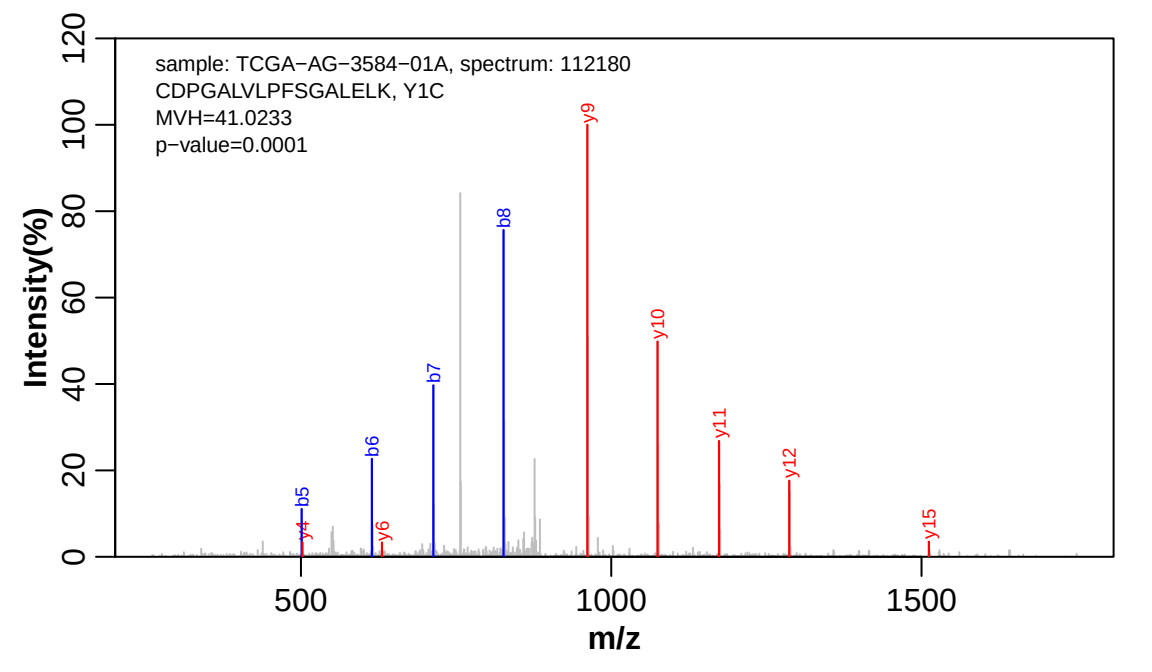

sample: TCGA−AG−3584−01A, spectrum: 38974
AAPSVTLFPPSSEELQANK, T2A
MVH=45.3059
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

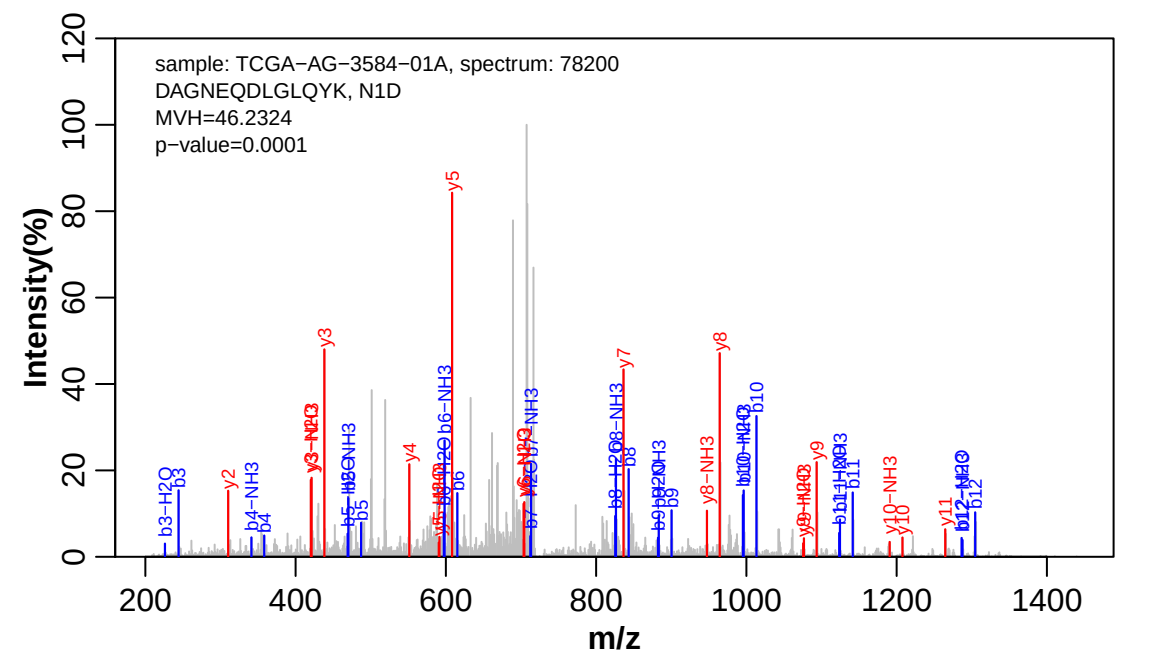

sample: TCGA−AG−3584−01A, spectrum: 11543
AGVETTTPSK, K7T
MVH=59.9155
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

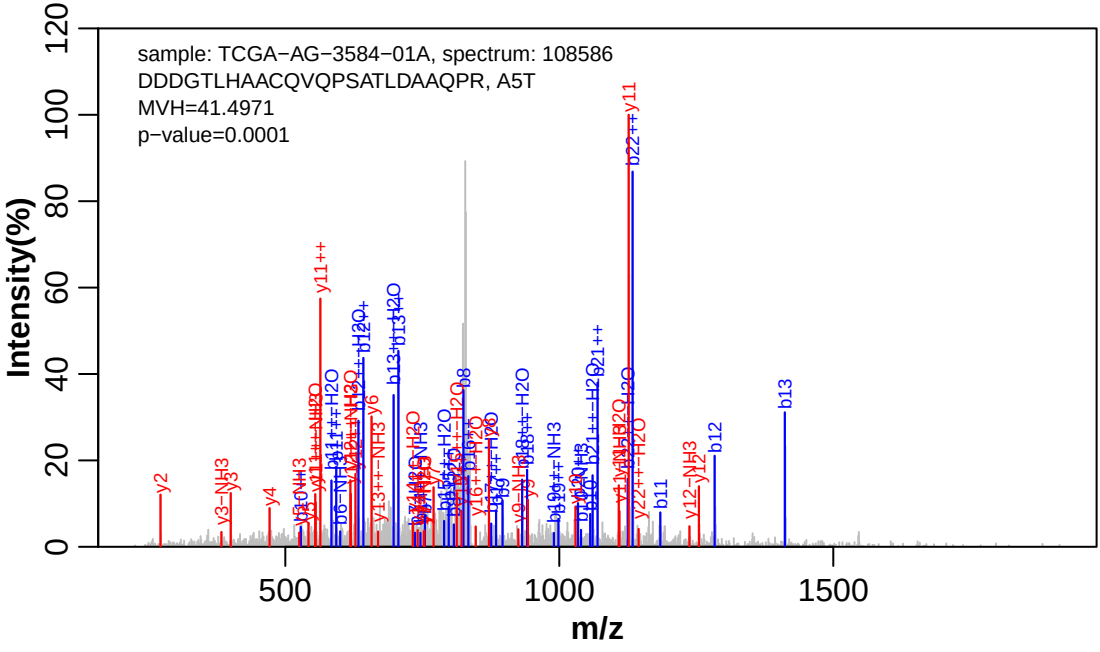

sample: TCGA−AG−3584−01A, spectrum: 40743
ALEDVFDALEGK, M5V
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
b3−H2O
y3
b4
y4
y5−NH3
b5−H2O
y5
b5
y6
b6
y7−H2O
y7
b7
b8
y8
b9−H2O
y9−H2O
y9
y10−H2O
y10

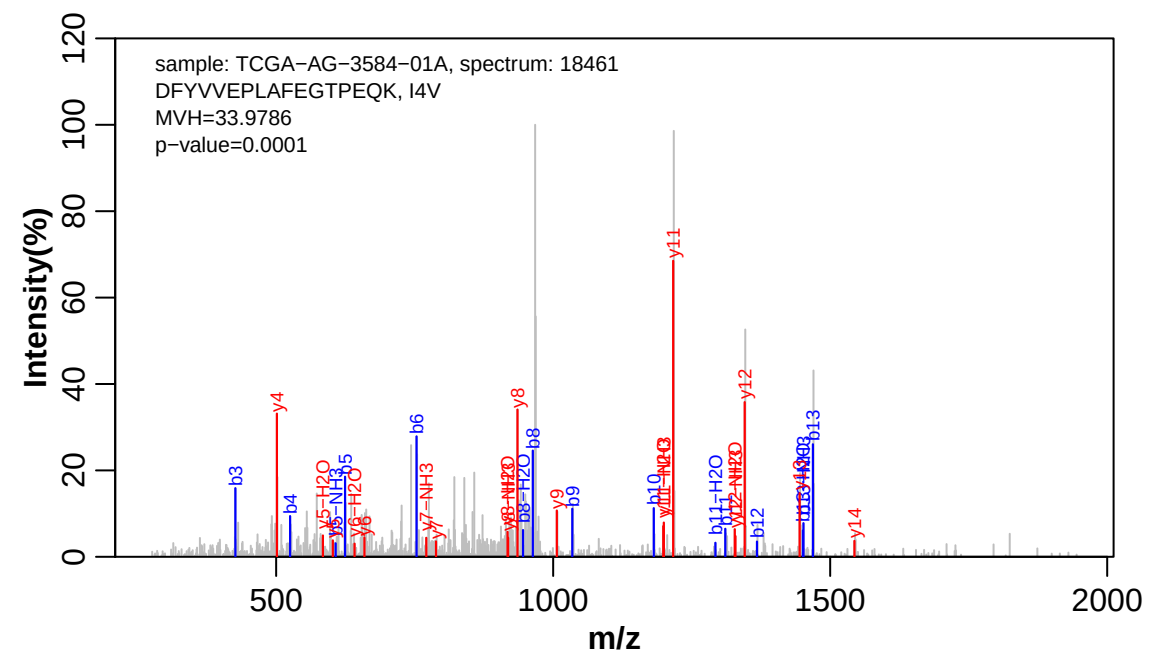

sample: TCGA−AG−3584−01A, spectrum: 91233
APPRPGPVPEAAQPFLFTTR, P19T
MVH=59.4692
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b16++
y7++
b10++−H2O
y10++
b11++
b12++
b13++−NH3
y12++
b8
b16++
y7
b17++
y8
y9
b12
b13

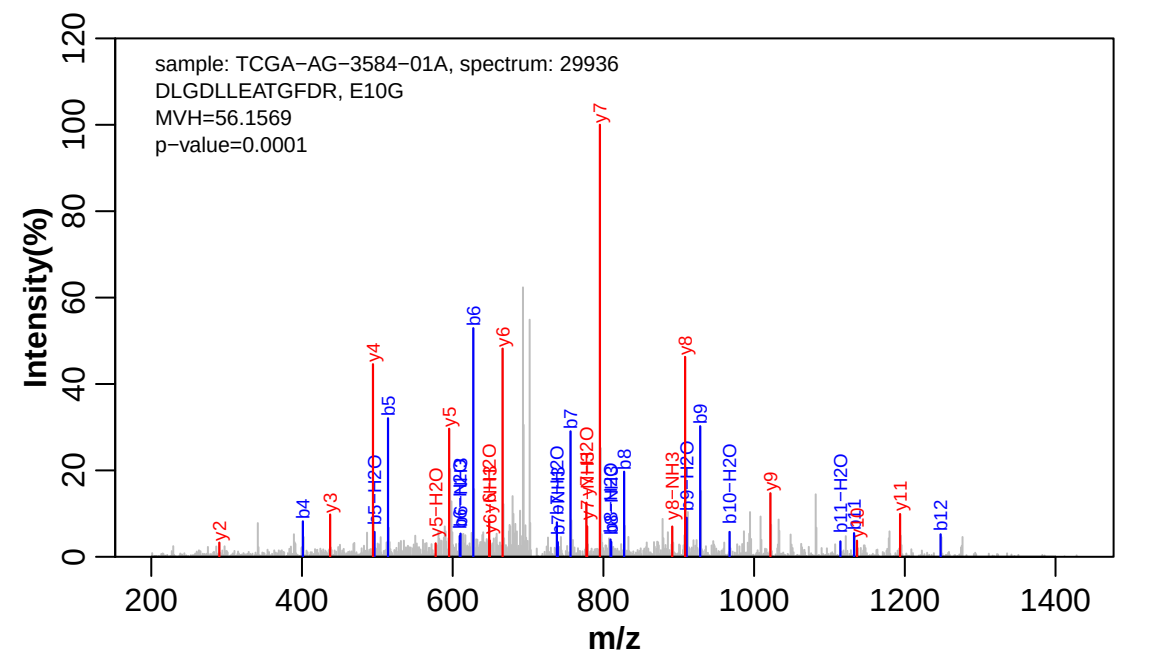

sample: TCGA−AG−3584−01A, spectrum: 111902
AVDVVLDCFLVK, A11V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3
b4
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
y5
b7
y6
b8
y7
y8−H2O
y8
b9
y9
b10−H2O
b10
b11−H2O
b11

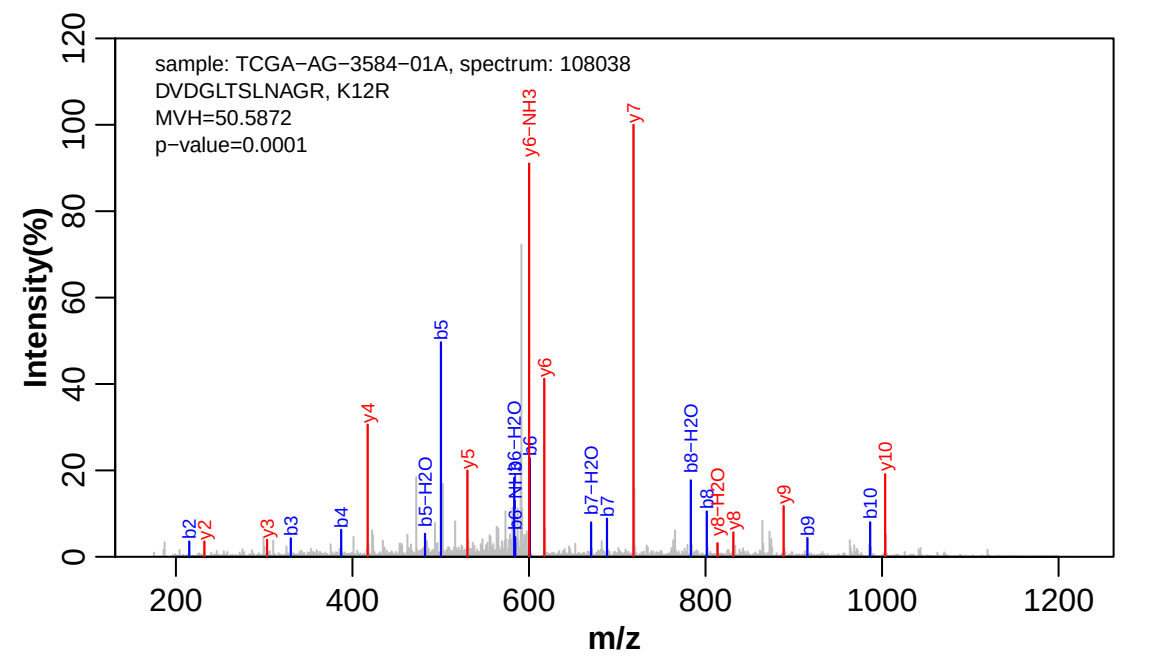

sample: TCGA−AG−3584−01A, spectrum: 112180
CDPGALVLPFSGALELK, Y1C
MVH=41.0233
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
y6
b7
b8
y9
y10
y11
y12
y15

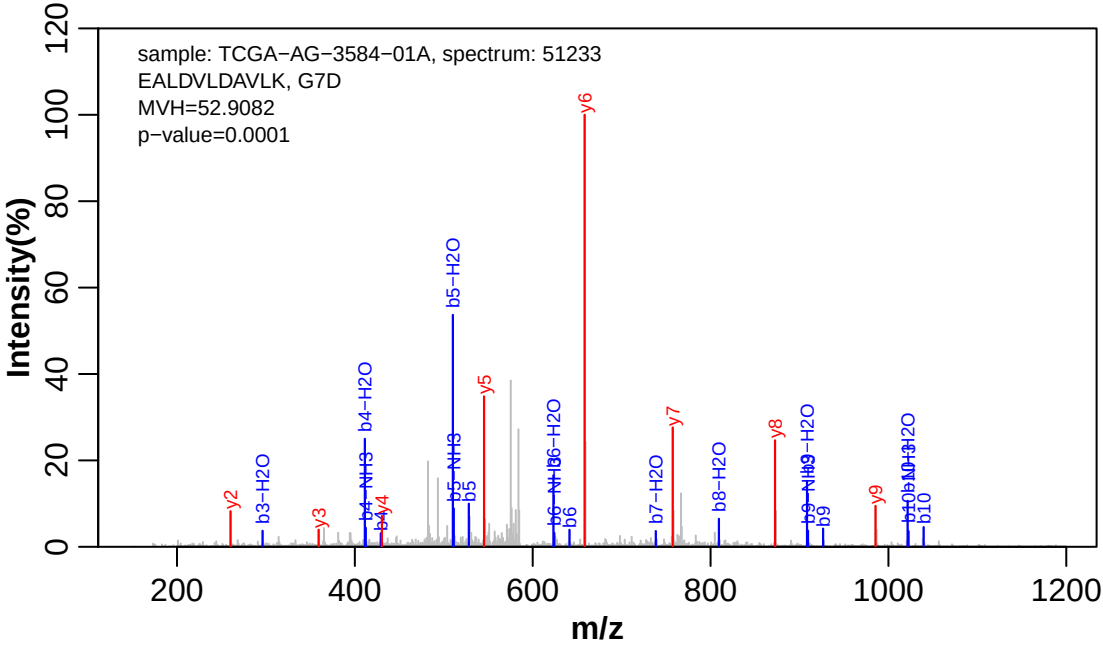

sample: TCGA−AG−3584−01A, spectrum: 78200
DAGNEQDLGLQYK, N1D
MVH=46.2324
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y3
y4
y2
y8
y7
y8−NH3
y10−NH3
y9
y11
b6−NH3
b10
b3−H2O
b3
b4−NH3
b4
b5
b6
b8
b9
b11
b12

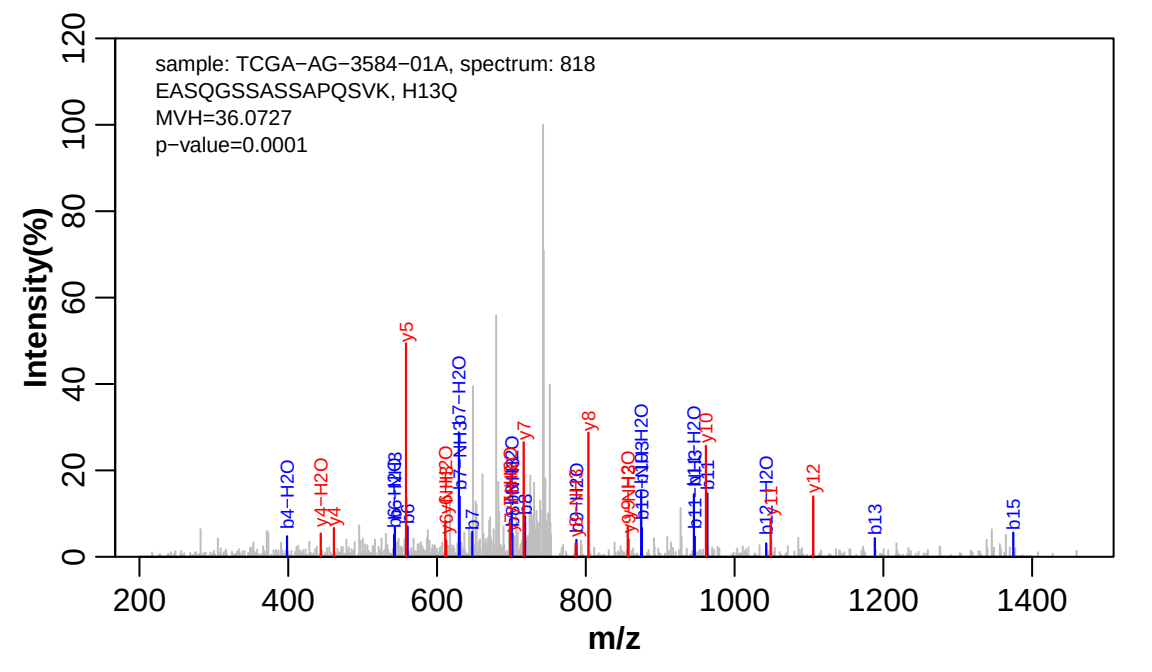

sample: TCGA−AG−3584−01A, spectrum: 108586
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=41.4971
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3−NH3
y4
y11++
b13
b12
b11
y12−NH3
b22++y11
b21++
y22++H2O

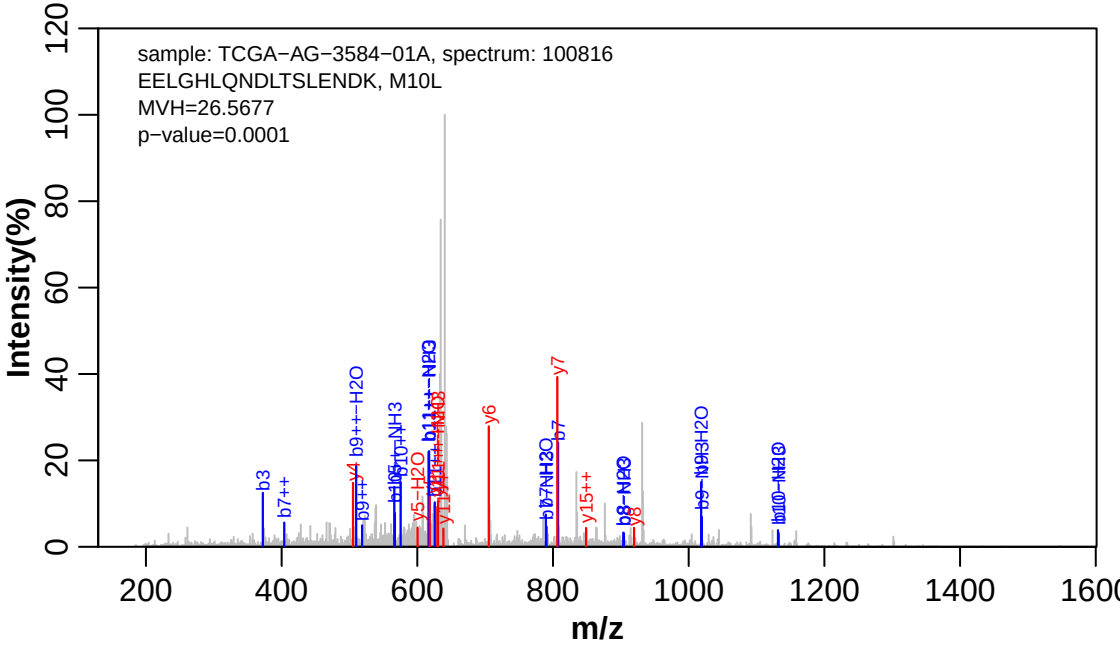

sample: TCGA−AG−3584−01A, spectrum: 18461
DFYVVEPLAFEGTPEQK, I4V
MVH=33.9786
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b3
y4
b4
y5−H2O
b5−NH3
b5
y6−H2O
y6
b6
y7−NH3
y8
b8−H2O
b8
y9
b9
y11
b10
b11−H2O
y12
b12
b13
y14

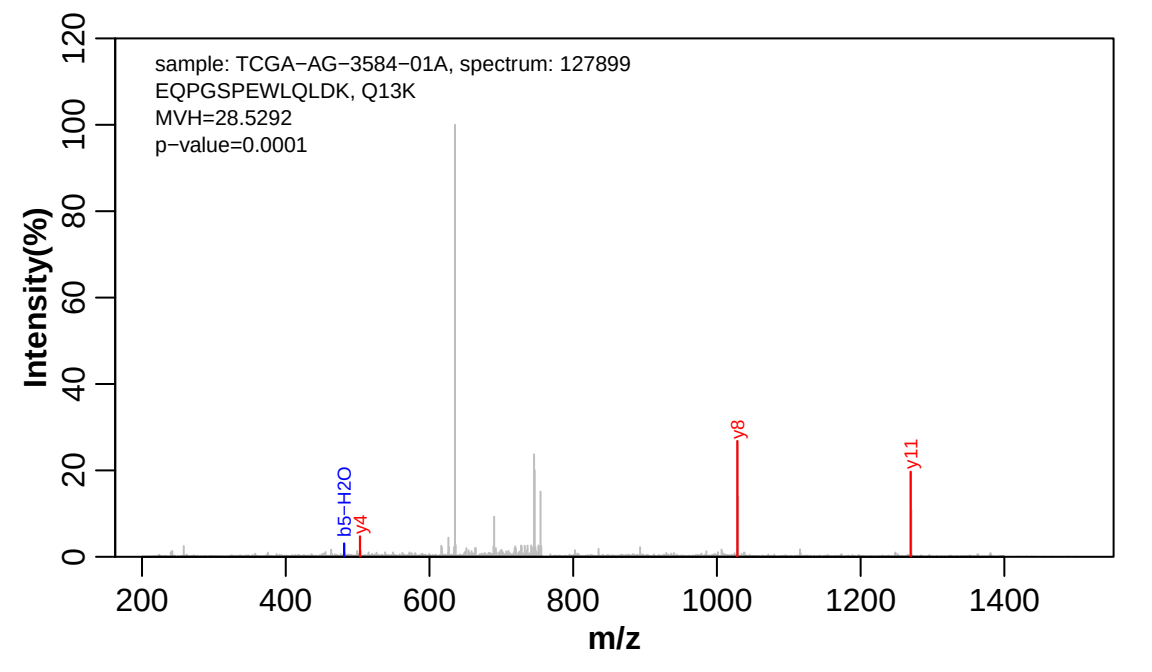

sample: TCGA−AG−3584−01A, spectrum: 29936
DLGDLLEATGFDR, E10G
MVH=56.1569
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4
y3
b5−H2O
y4
b5
y5−H2O
y5
b6
y6
b7
b8
y7
y8
b9
y8−NH3
b9−H2O
b10−H2O
y9
b11−H2O
y11
b12

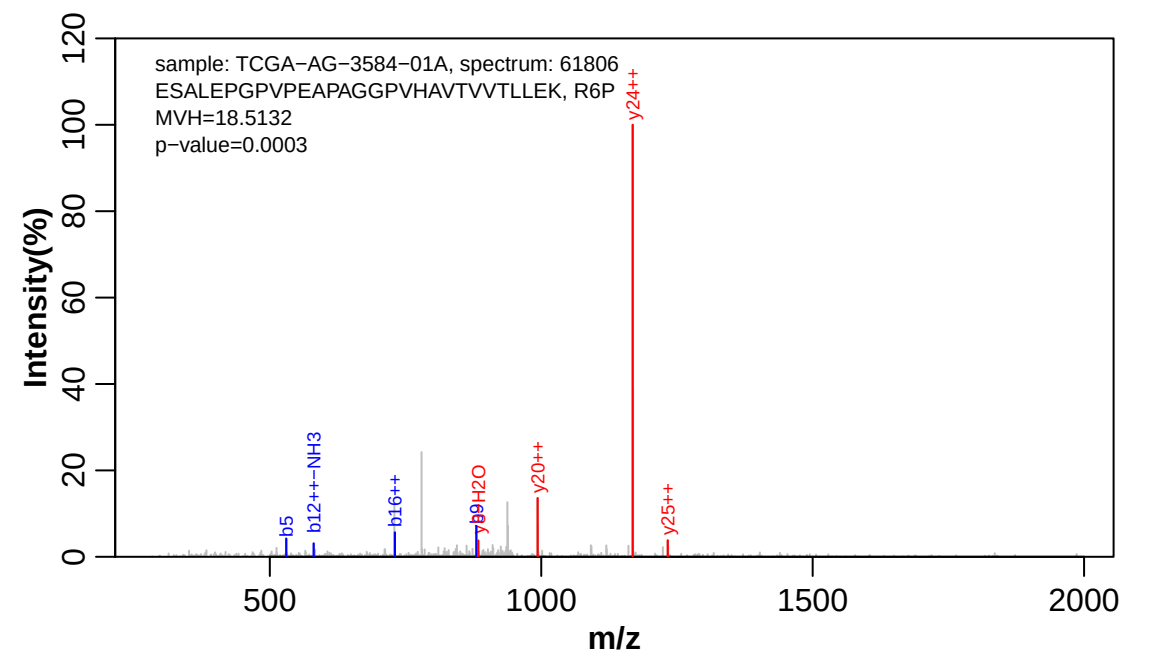

sample: TCGA−AG−3584−01A, spectrum: 108038
DVDGLTSLNAGR, K12R
MVH=50.5872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
b5−H2O
b5
y4
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−H2O
y8
y9
b9
b10
y10

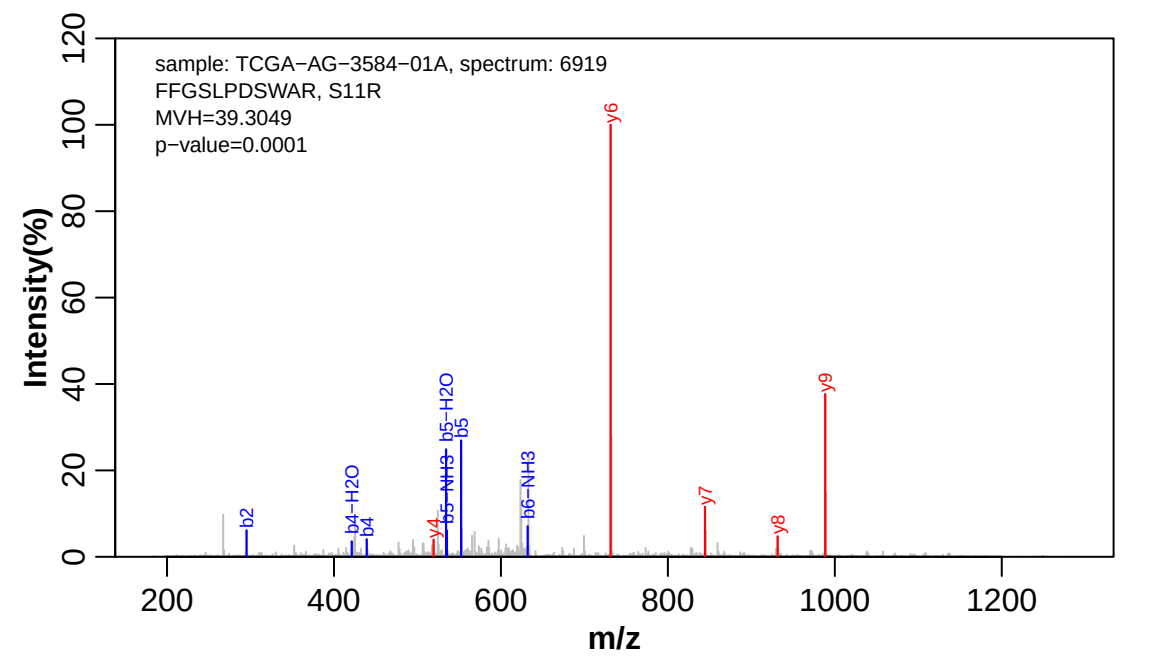

sample: TCGA−AG−3584−01A, spectrum: 51233
EALDVLDAVLK, G7D
MVH=52.9082
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−NH3
b4−H2O
b4
y4
b5−H2O
b5−NH3
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

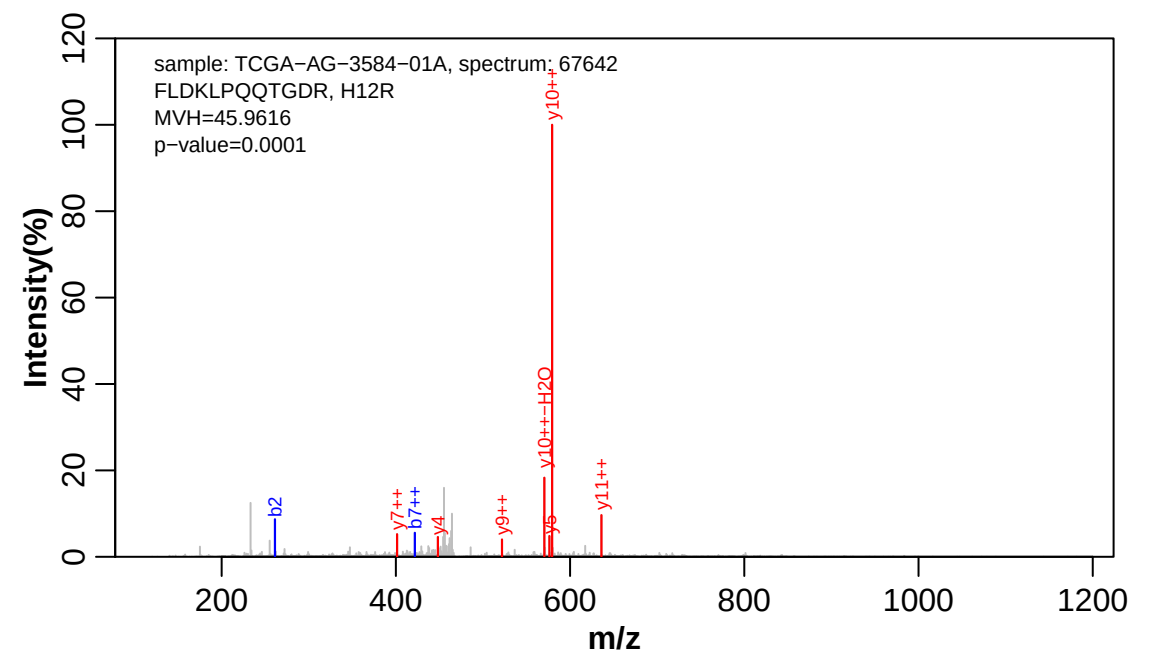

sample: TCGA−AG−3584−01A, spectrum: 818
EASQGSSASSAPQSVK, H13Q
MVH=36.0727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4−H2O
y4−H2O
y4
y5
b7−NH3
b7−H2O
b7
y7
y8
b11−NH3
b11−H2O
y10
b11
b12−H2O
y11
y12
b13
b15

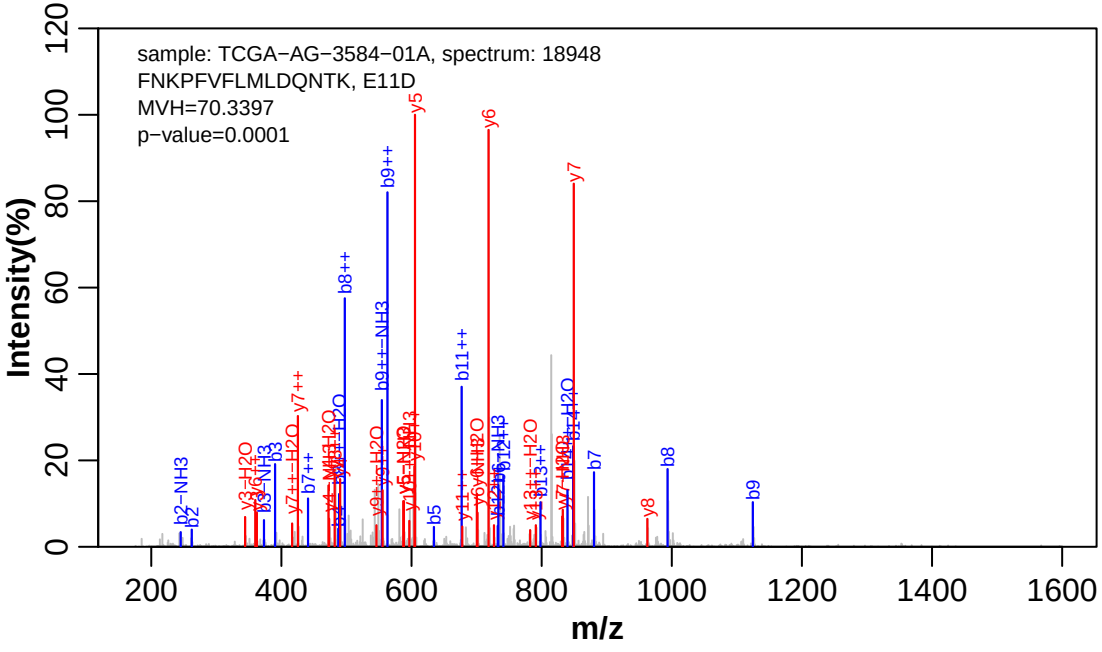

sample: TCGA−AG−3584−01A, spectrum: 100816
EELGHLQNDLTSLENDK, M10L
MVH=26.5677
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b7++
y4
b9++−H2O
b9++−NH3
y5−H2O
y6
b7
y7
y15++
y8
b9−NH3
b9−H2O

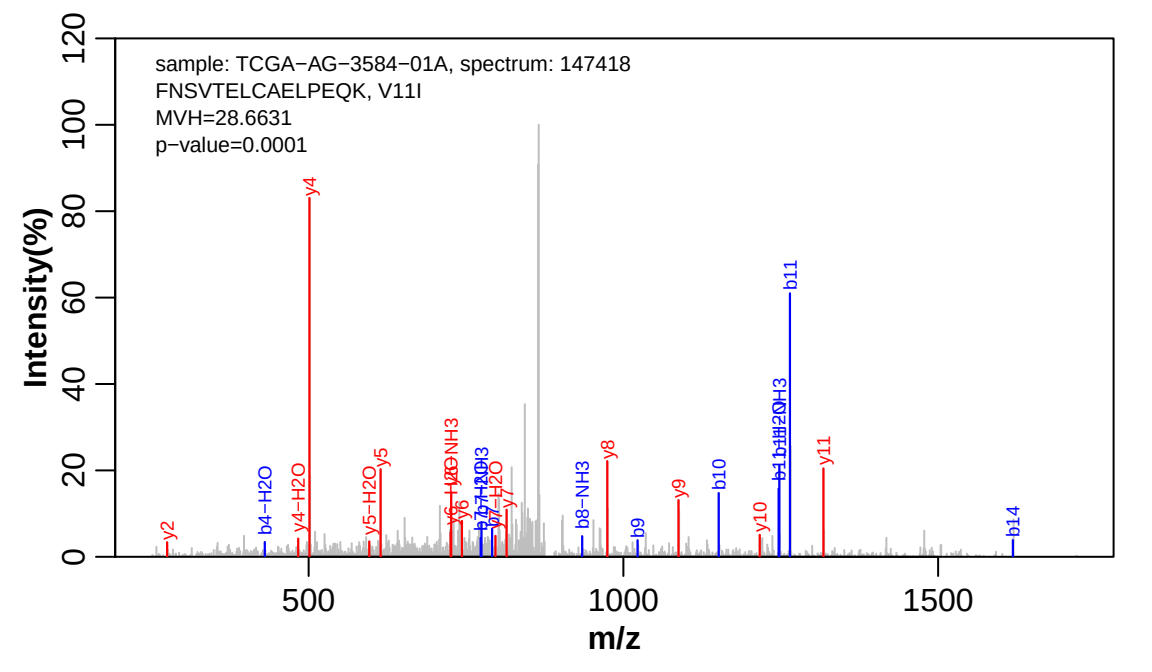

sample: TCGA−AG−3584−01A, spectrum: 127899
EQPGSPEWLQLDK, Q13K
MVH=28.5292
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

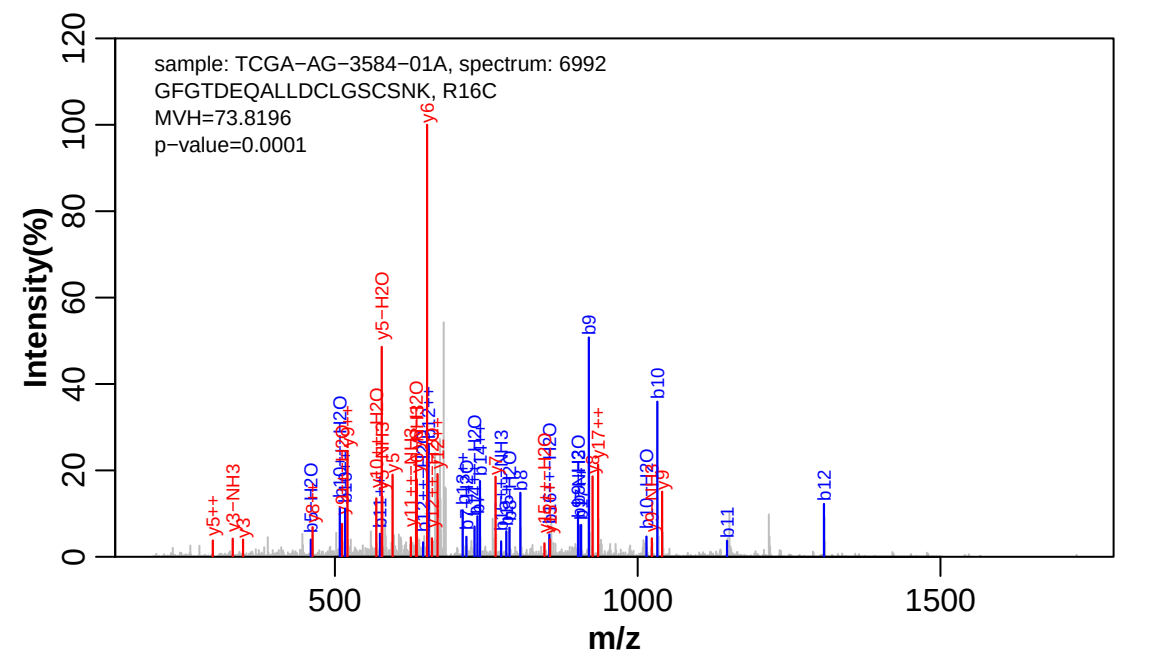

sample: TCGA−AG−3584−01A, spectrum: 61806
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=18.5132
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
b12++−NH3
b16++
y9
y9−H2O
y20++
y24++
y25++

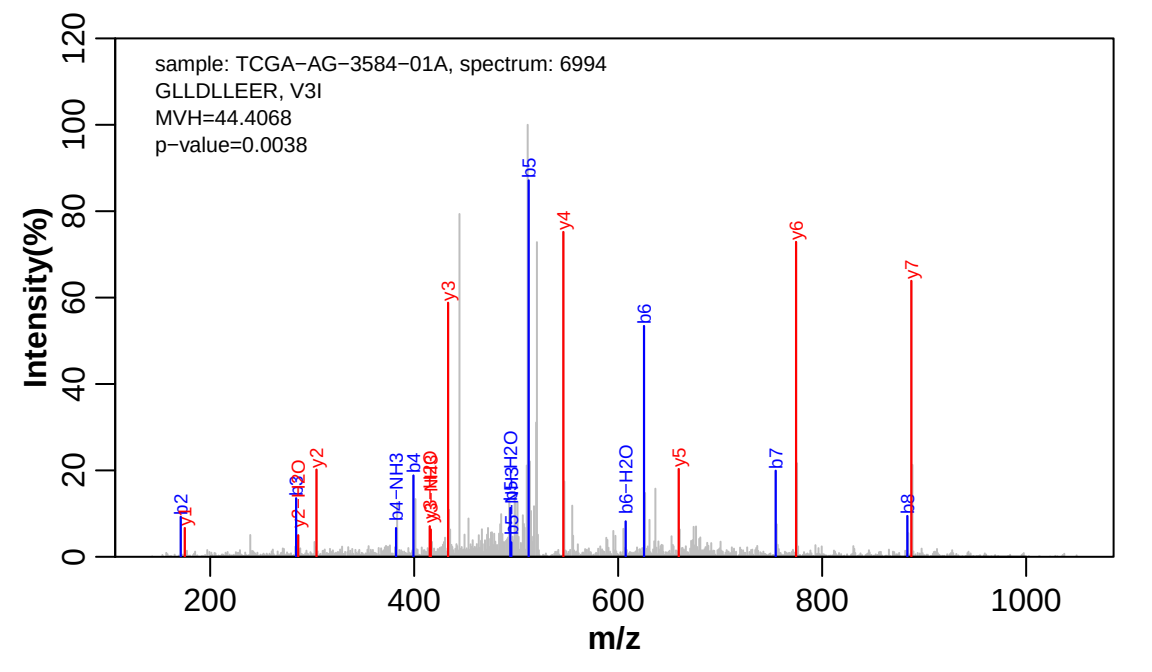

sample: TCGA−AG−3584−01A, spectrum: 6919
FFGSLPDSWAR, S11R
MVH=39.3049
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

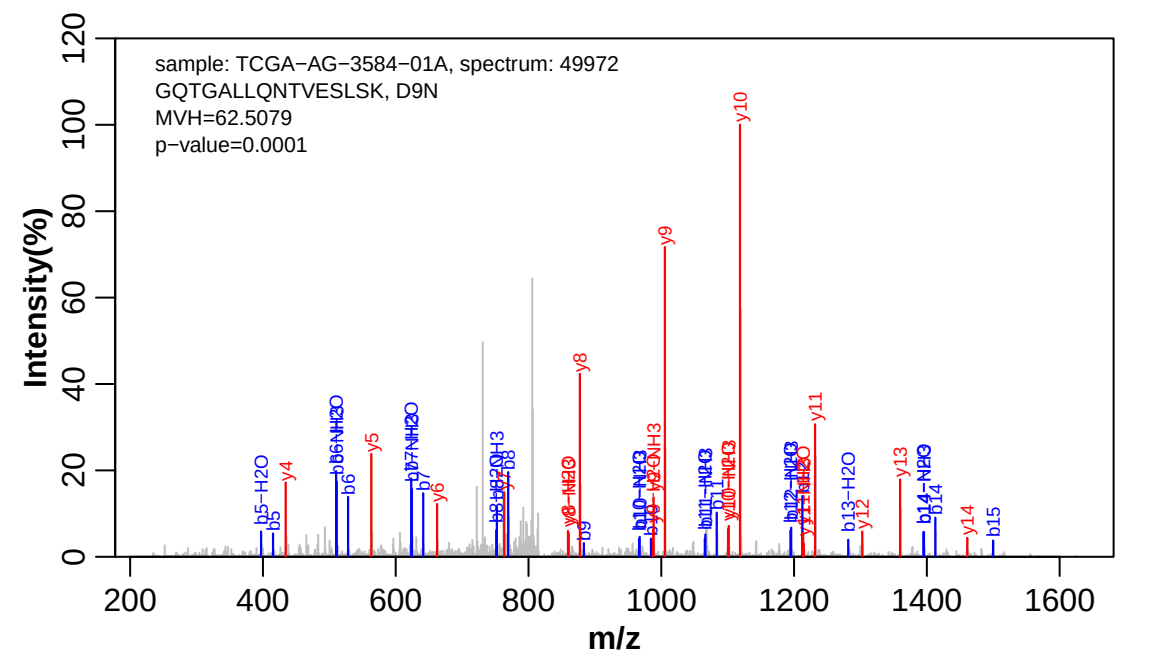

sample: TCGA−AG−3584−01A, spectrum: 67642
FLDKLPQQTGDR, H12R
MVH=45.9616
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y10++
y10++−H2O
y11++
y7++
b7++
y4
y9++
y8
b2

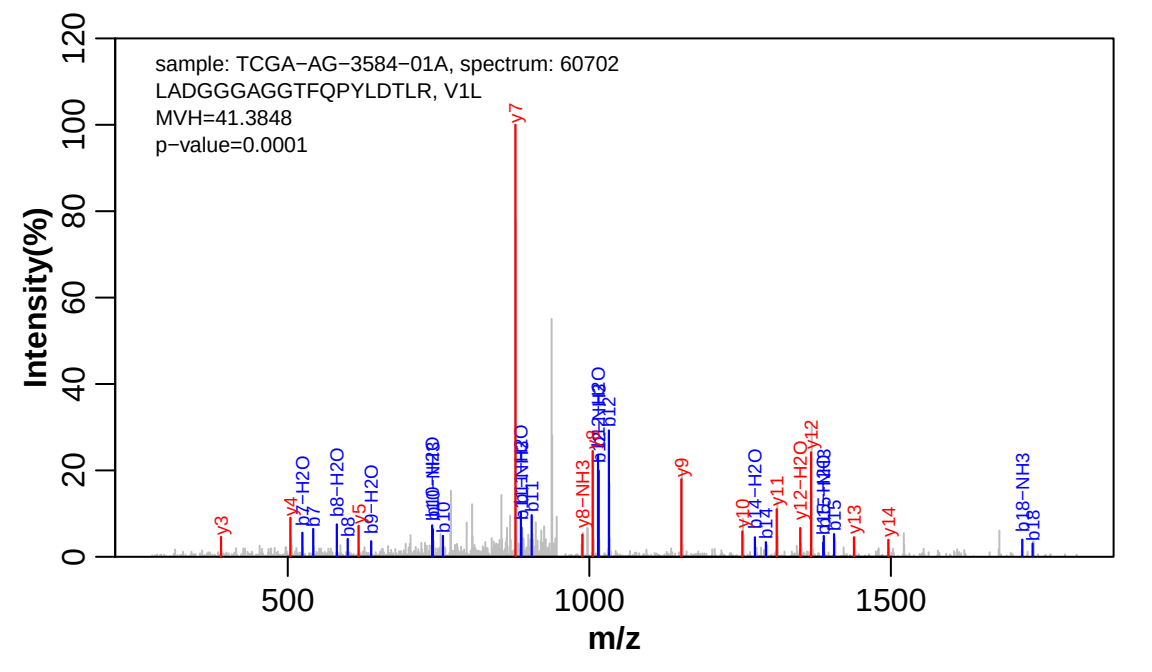

sample: TCGA−AG−3584−01A, spectrum: 18948
FNKPFVFLMLDQNTK, E11D
MVH=70.3397
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b9++
b8++
b9++−NH3
b11++
y7++
b2−NH3
b2
b7++
b5
b7
b8
b9
y8

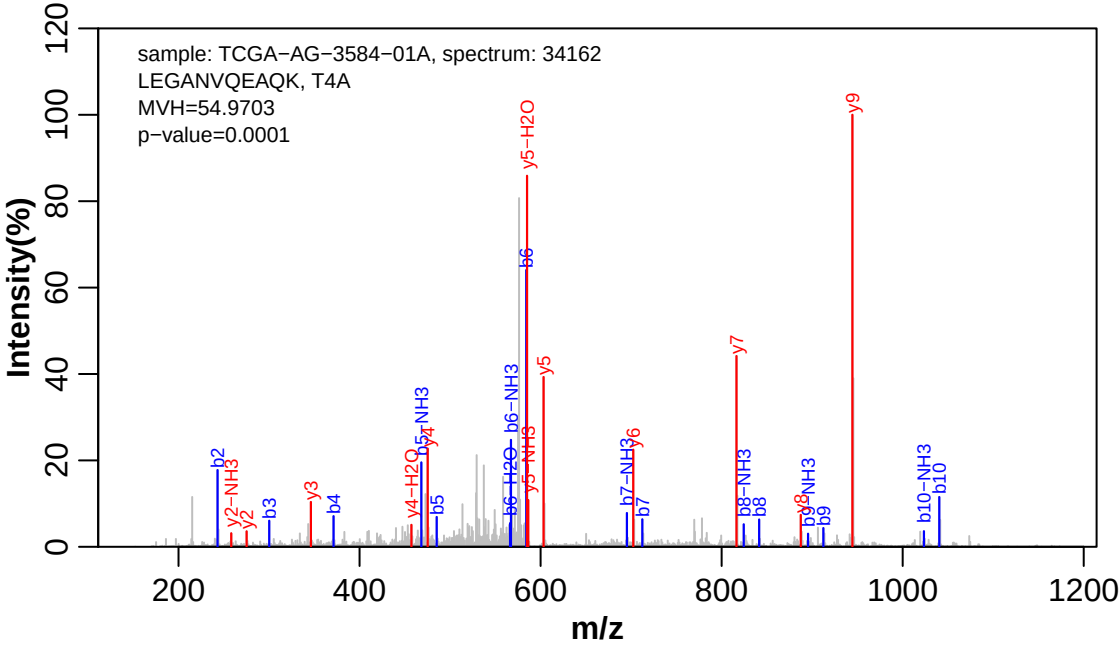

sample: TCGA−AG−3584−01A, spectrum: 147418
FNSVTELCAELPEQK, V11I
MVH=28.6631
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y2
b4−H2O
y4−H2O
y5−H2O
y5
b8−NH3
y8
b9
y9
b10
y10
b11
y11
b14

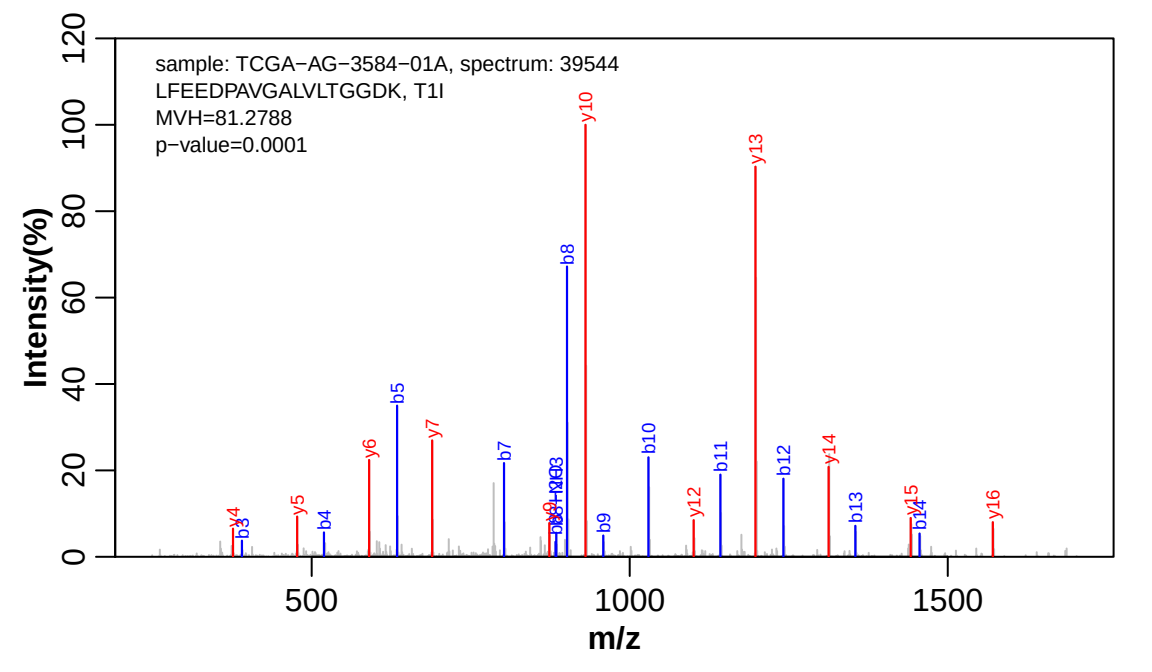

sample: TCGA−AG−3584−01A, spectrum: 6992
GFGTDEQALLDCLGSCSNK, R16C
MVH=73.8196
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
y5
y5++
y3−NH3
y3
b5−H2O
b9
b10
y9
y17++
b12
b11
b8

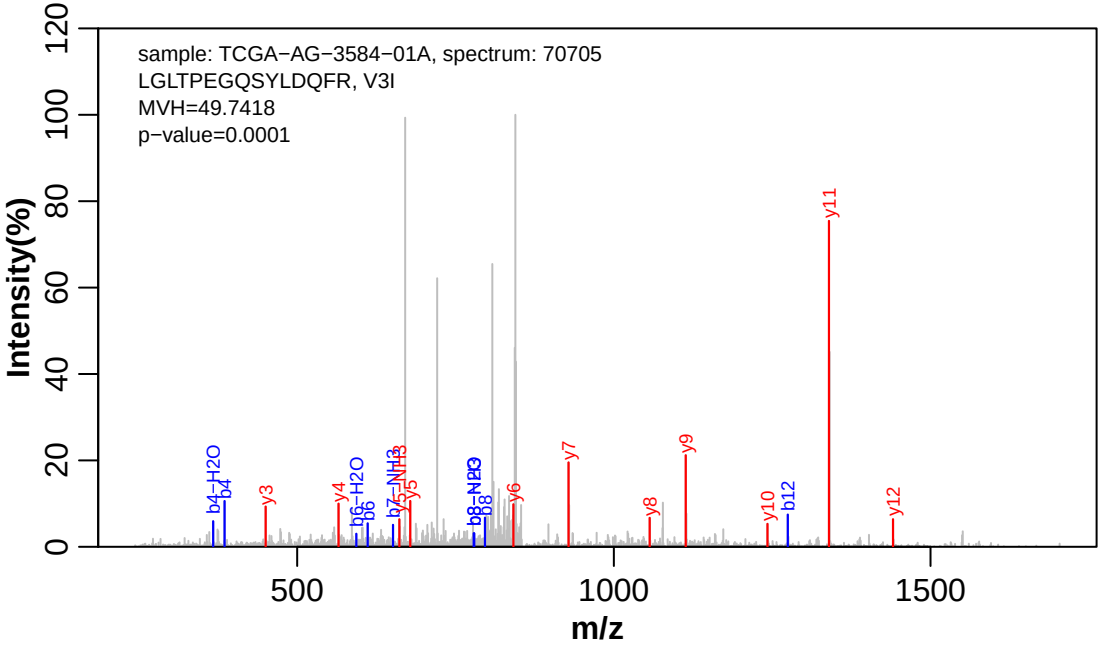

sample: TCGA−AG−3584−01A, spectrum: 6994
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y6
y7
y3
b6
b2
y1
y2
y2−H2O
b4−NH3
b4
b6−H2O
y5
b7
b8

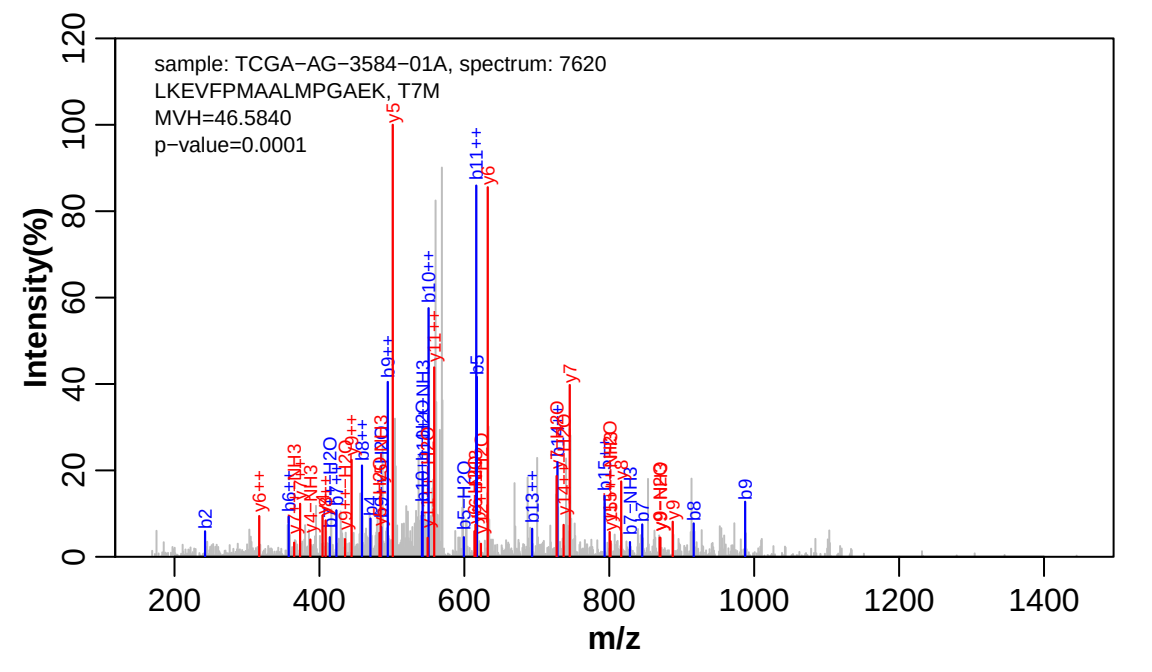

sample: TCGA−AG−3584−01A, spectrum: 49972
GQTGALLQNTVESLSK, D9N
MVH=62.5079
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y4
y6
y14
b15
b14−N2H3
b13−H2O
y12
b5−H2O
b5
b6
y7
b8
b9
b10
y10−NH3
y11−NH3
b12
b12−NH3
b12−H2O
b14
b6−NH3
b6−H2O
b7−NH3
b7−H2O
b8−NH3
b8−H2O
y8−NH3
y8−H2O
y9−NH3
y9−H2O
b10−NH3
b10−H2O
b11
b11−NH3
b11−H2O
y11−H2O

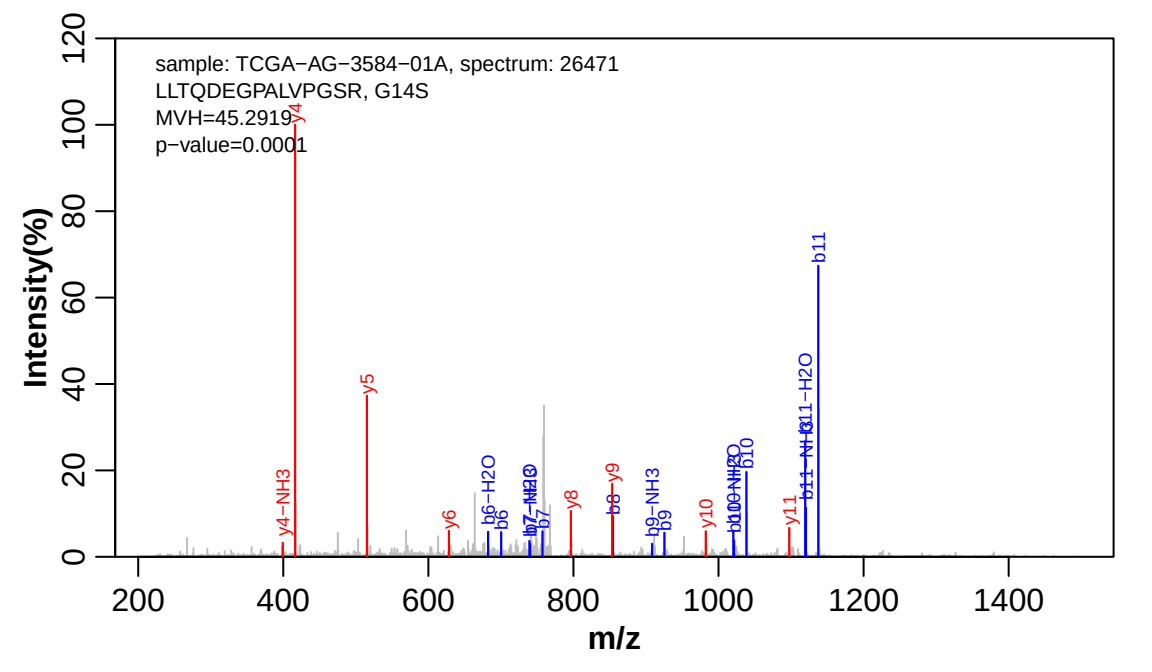

sample: TCGA−AG−3584−01A, spectrum: 60702
LADGGGAGGTFQPYLDTLR, V1L
MVH=41.3848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b8−H2O
b8
y5
b9−H2O
y8−NH3
y9
y10
b14−H2O
y11
y12−H2O
y12
y13
y14
b18−NH3

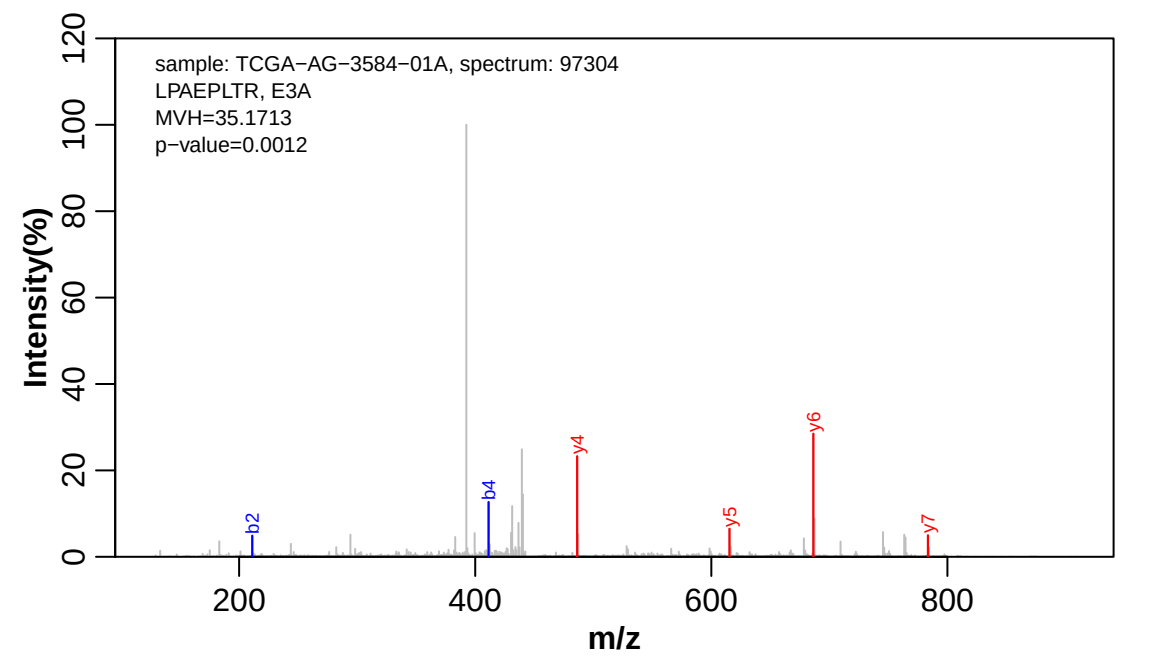

sample: TCGA−AG−3584−01A, spectrum: 34162
LEGANVQEAQK, T4A
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9
y5−H2O
b6
y7
y5
y5−NH3
b6−NH3
b6−H2O
y4
y4−H2O
b5−NH3
y6
b7−NH3
b8−NH3
y8−NH3
b10−NH3
b10
y3
b4
b5
b7
b8
b9
y8
y2−NH3
y2
b2
b3

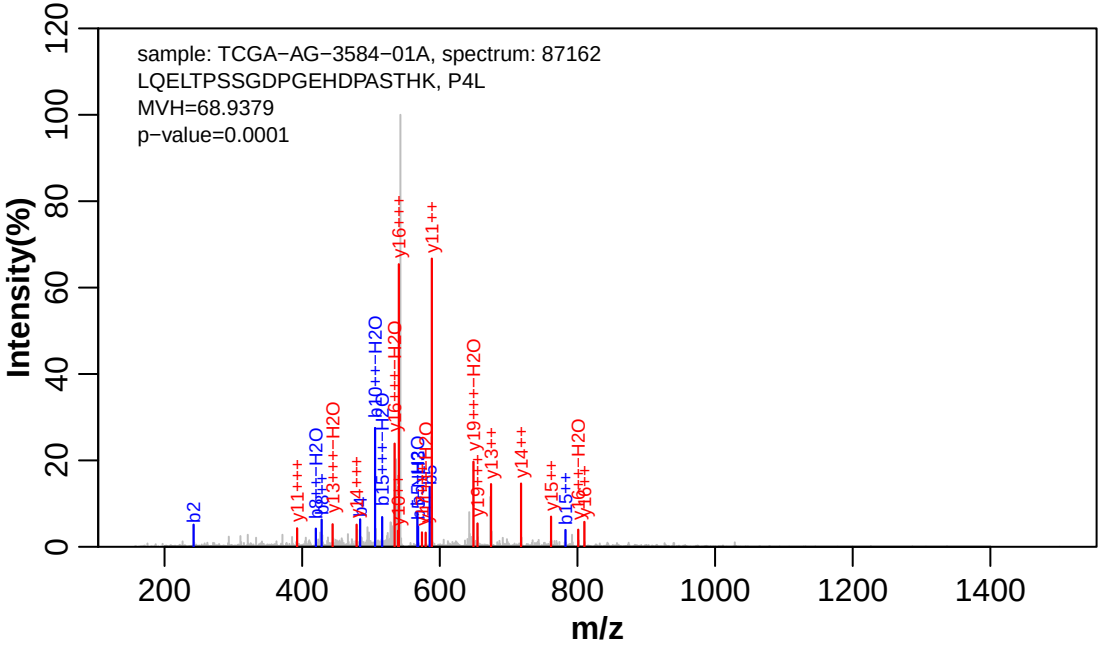

sample: TCGA−AG−3584−01A, spectrum: 39544
LFEEDPAVGALVLTGGDK, T1I
MVH=81.2788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
b5
y7
y6
b7
b10
y12
b11
b12
y14
b13
y15
y16
y5
b4
y4
b3
b9

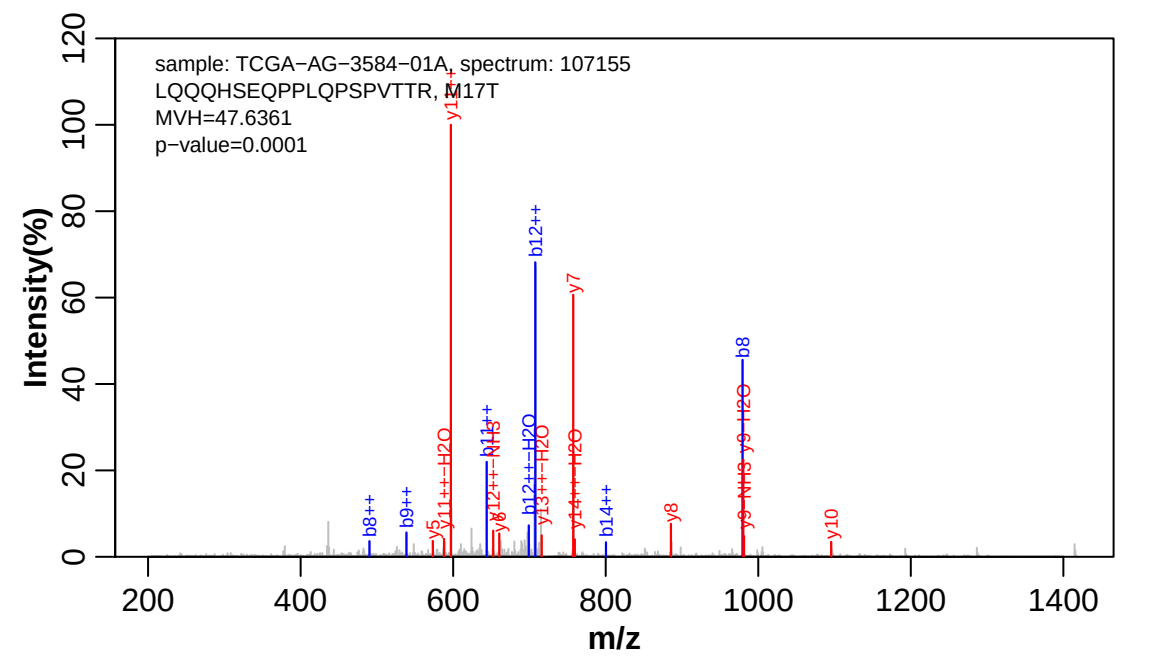

sample: TCGA−AG−3584−01A, spectrum: 70705
LGLTPEGQSYLDQFR, V3I
MVH=49.7418
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
b6−H2O
b6
b7−NH3
y5
b8−NH3
b8
y6
y7
y8
y9
y10
b12
y11
y12

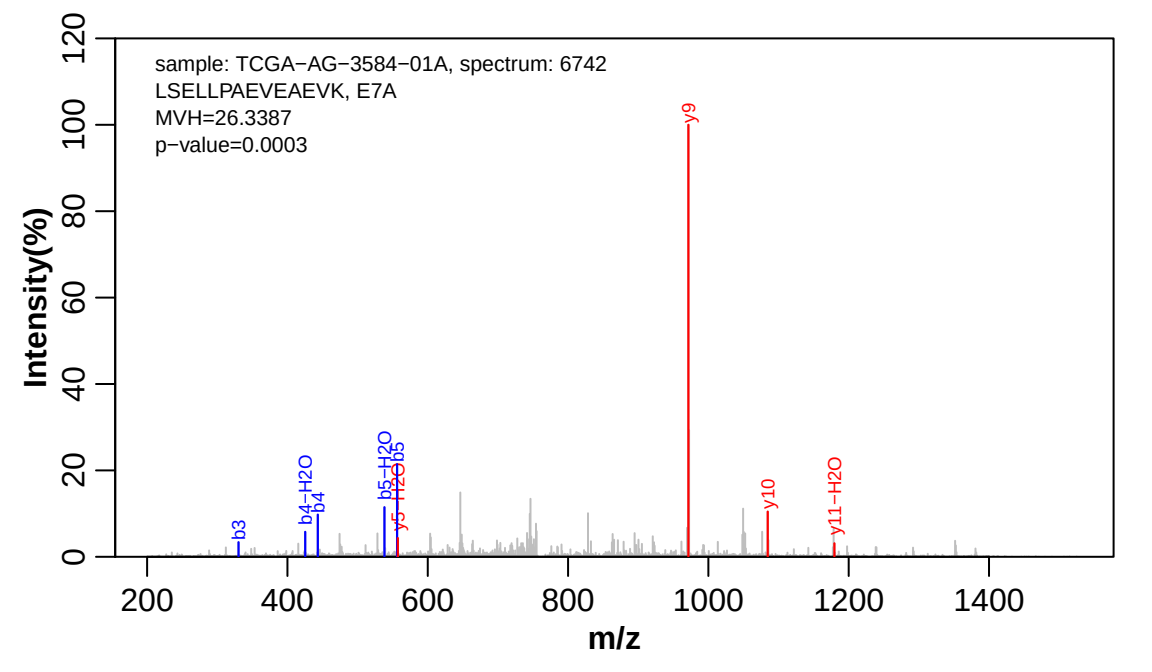

sample: TCGA−AG−3584−01A, spectrum: 7620
LKEVFPMAALMPGAEK, T7M
MVH=46.5840
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
b11++
y6
b10++
y11+++
b9++
b5
y7
b2
y6++
b13++
b9
b8

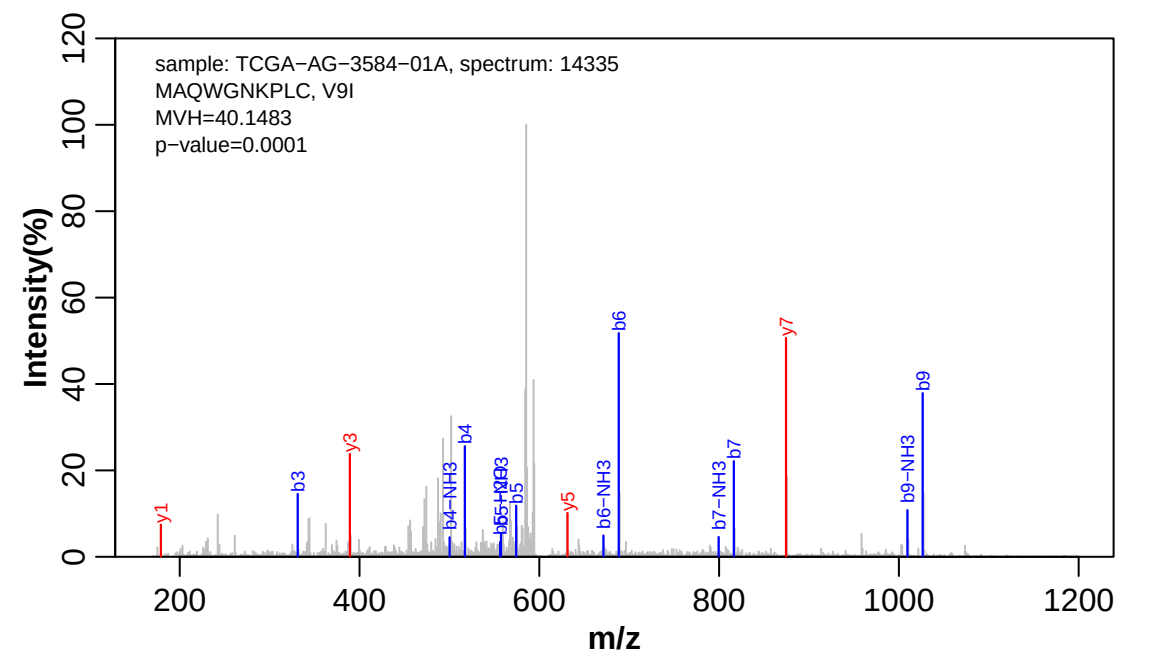

sample: TCGA−AG−3584−01A, spectrum: 26471
LLTQDEGPALVPGSR, G14S
MVH=45.2919
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
y8
y10
y11
y4−NH3
b6−H2O
b6
b8−y9
b9−NH3
b9
b10
b11
b11−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

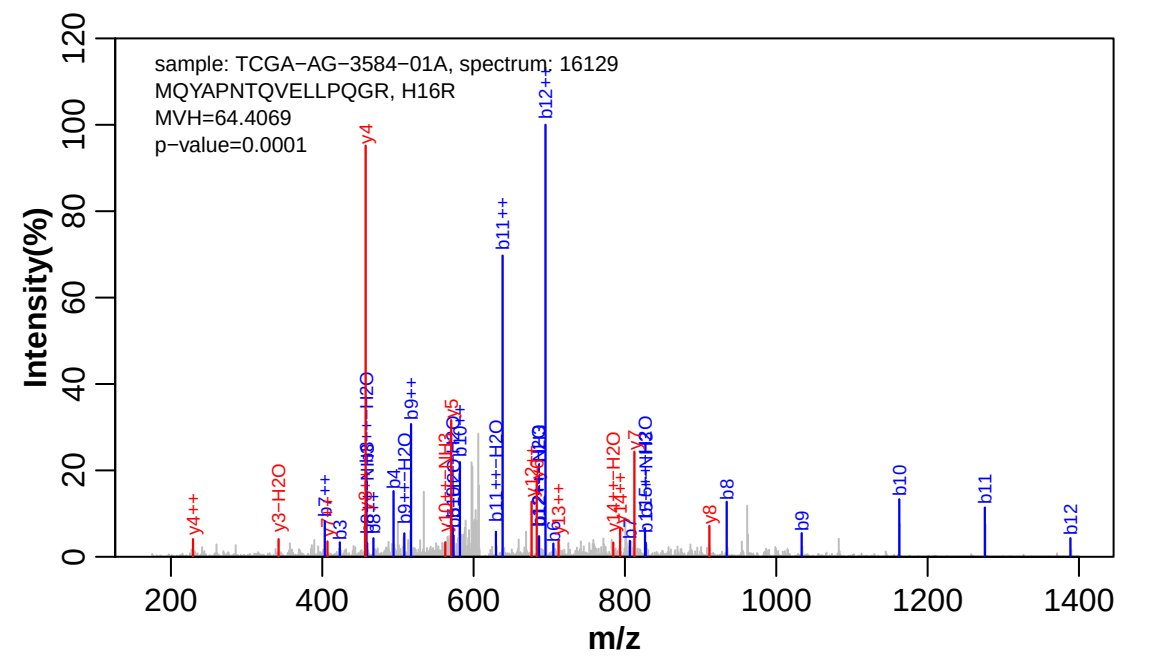

sample: TCGA−AG−3584−01A, spectrum: 97304
LPAEPLTR, E3A
MVH=35.1713
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6
y7

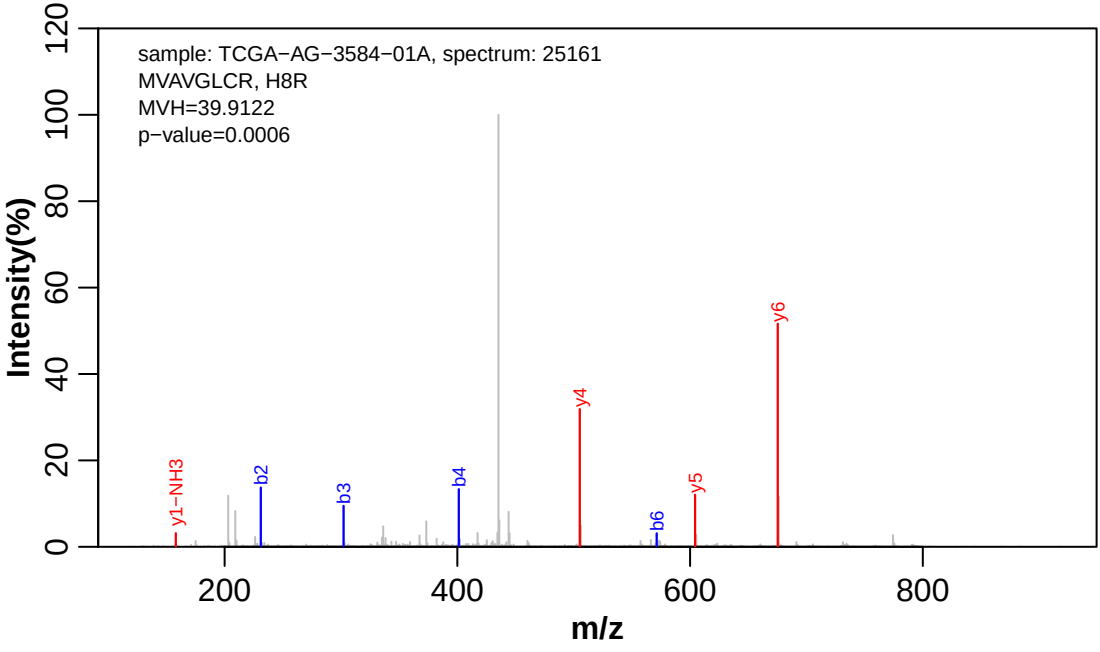

sample: TCGA−AG−3584−01A, spectrum: 87162
LQELTPSSGDPGEHDPASTHK, P4L
MVH=68.9379
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
b8+++−H2O
y13+++−H2O
b4+++
b15+++−H2O
b10+++−H2O
y16+++−H2O
y16+++
y11++
y19+++−H2O
y13++
y14++
y15++
b15++
y16++−H2O

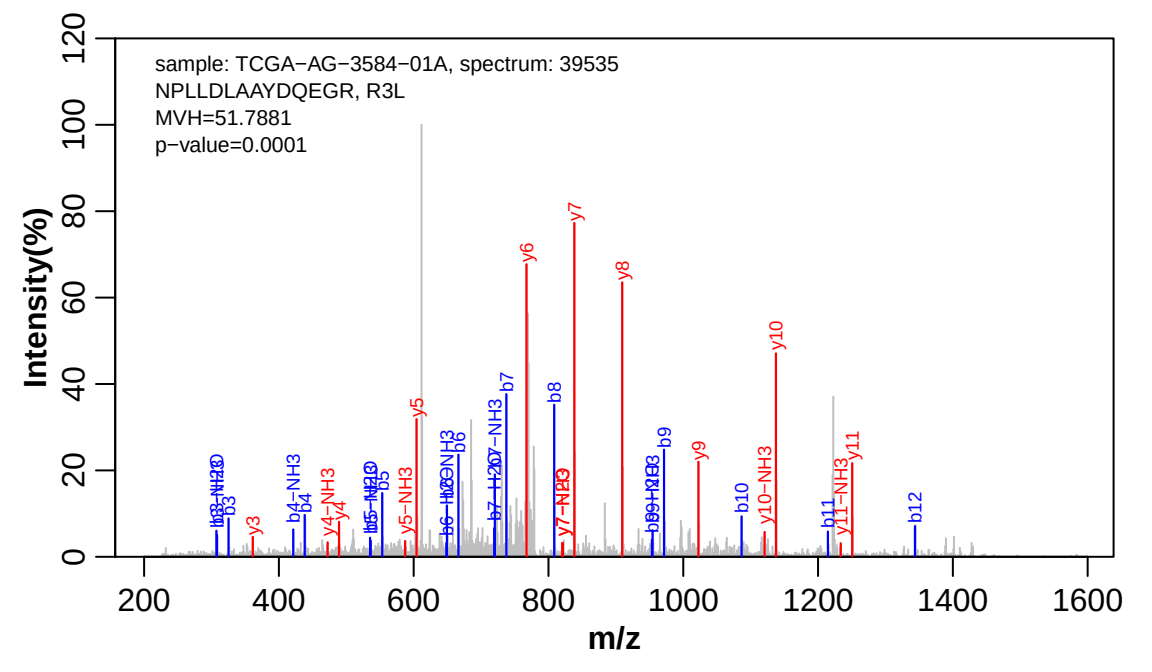

sample: TCGA−AG−3584−01A, spectrum: 107155
LQQQHSEQPPLQPSPVTTR, M17T
MVH=47.6361
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11++
b8++
b9++
y5
y11++−H2O
y8
b11++
b12++−NH3
b12++−H2O
y13++−H2O
b12++
y7
y14++−H2O
b14++
y8
b8
y9−NH3
y9−H2O
y10

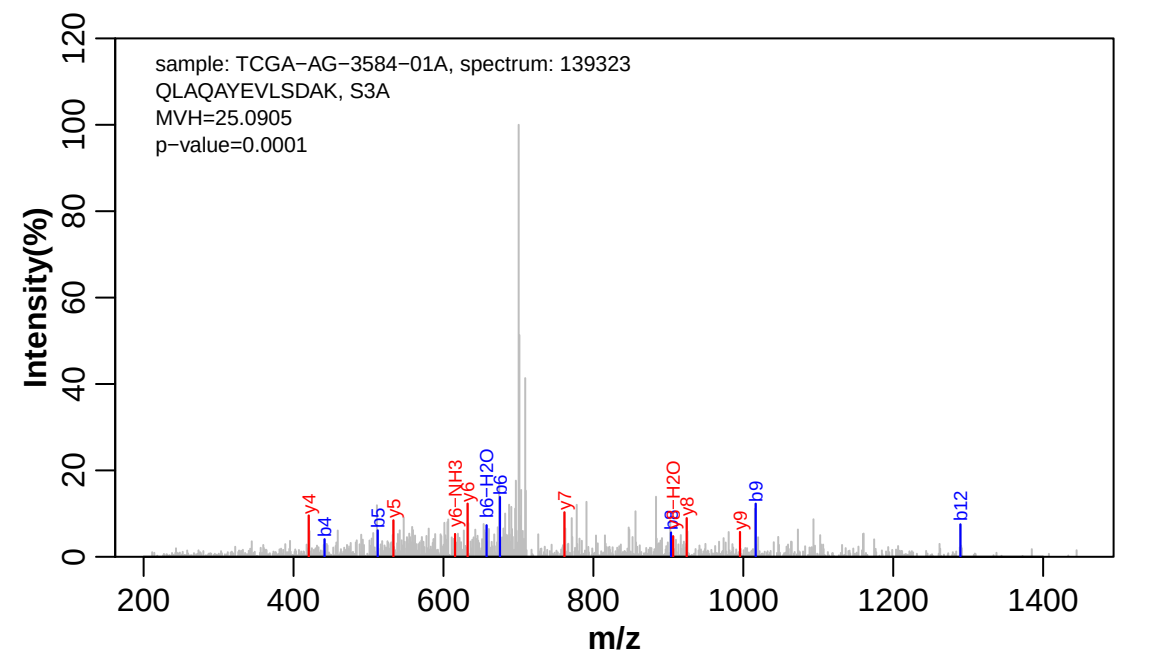

sample: TCGA−AG−3584−01A, spectrum: 6742
LSELLPAEVEAEVK, E7A
MVH=26.3387
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b3
b4−H2O
b4
b5−H2O
y5−H2O
b5
y9
y10
y11−H2O

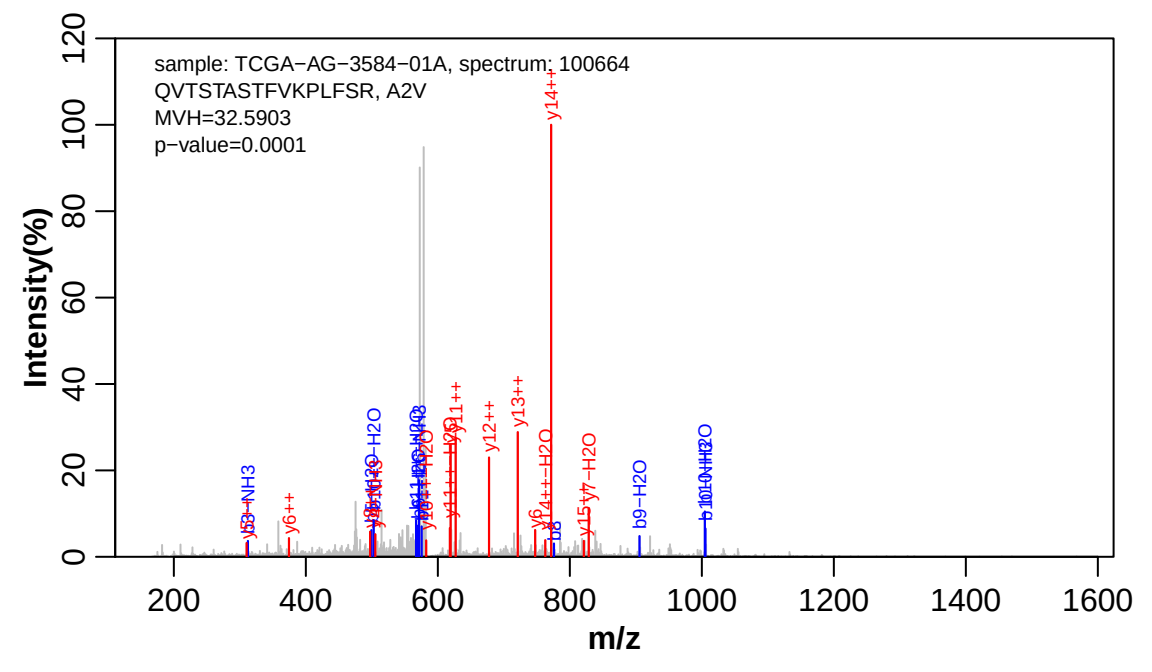

sample: TCGA−AG−3584−01A, spectrum: 14335
MAQWGNKPLC, V9I
MVH=40.1483
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y1
b3
y3
b4−NH3
b4
b5
y5
b6−NH3
b6
b7−NH3
b7
y7
b9−NH3
b9

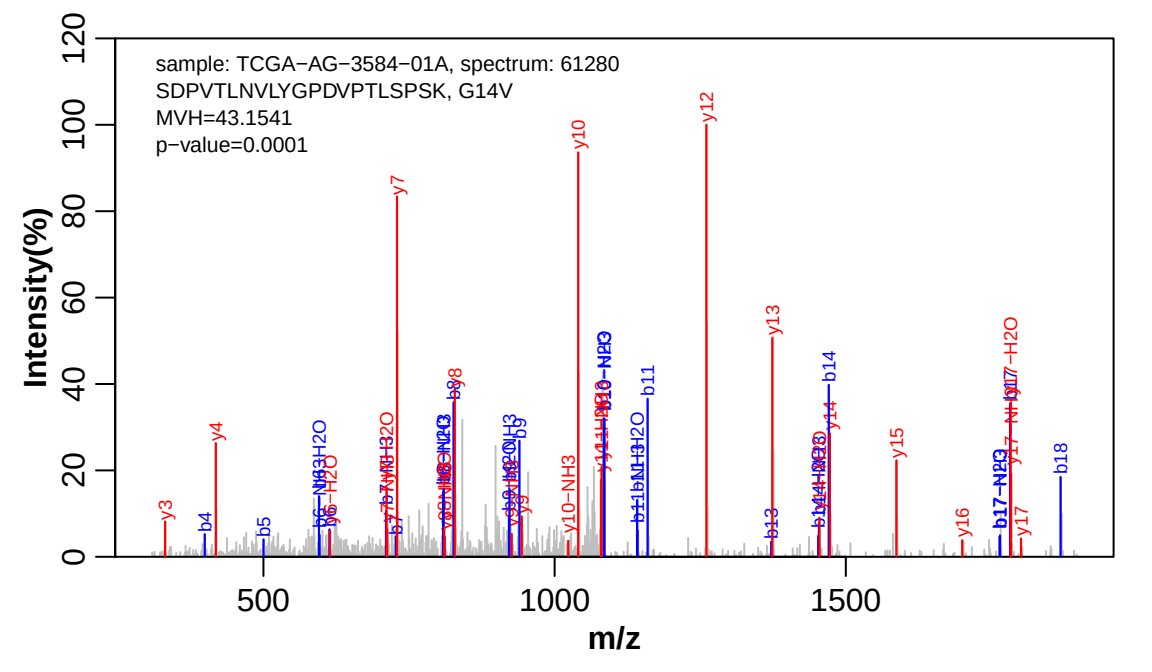

sample: TCGA−AG−3584−01A, spectrum: 16129
MQYAPNTQVELLPQGR, H16R
MVH=64.4069
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4++
y3−H2O
b3
y4
b4
b9++
b9++−H2O
b9++
b11++
b11++−H2O
b12++
b13++
y14++−H2O
y8
b8
b9
b10
b11
b12

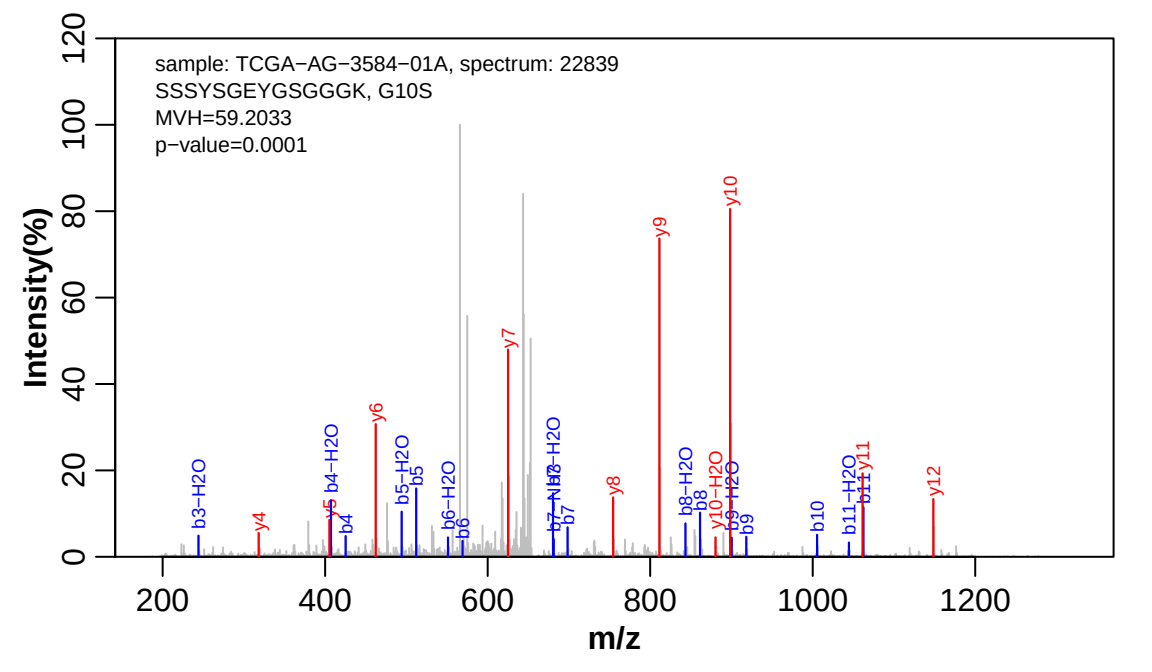

sample: TCGA−AG−3584−01A, spectrum: 25161
MVAVGLCR, H8R
MVH=39.9122
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
b4
y4
b6
y5
y6

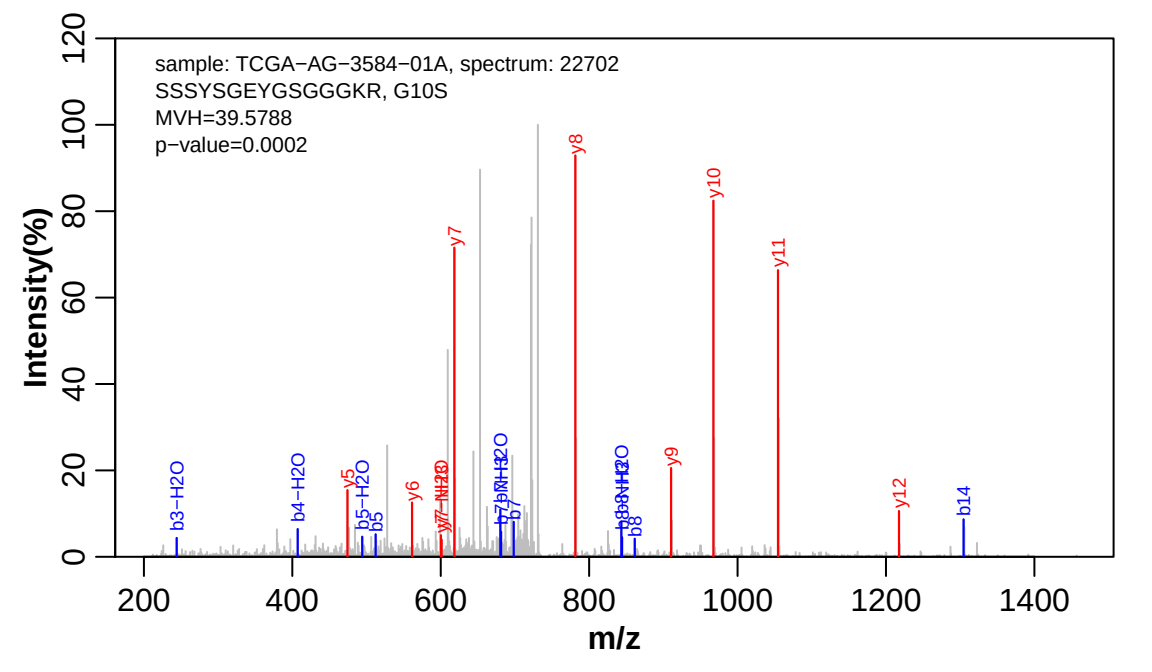

sample: TCGA−AG−3584−01A, spectrum: 39535
NPLLDLAAYDQEGR, R3L
MVH=51.7881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b3
b4
b4−NH3
y4
y4−NH3
y5
y5−NH3
b6
b7
b7−NH3
y6
y7
y7−NH3
b8
b9
y8
y9
b10
y10
y10−NH3
b11
y11
y11−NH3
b12

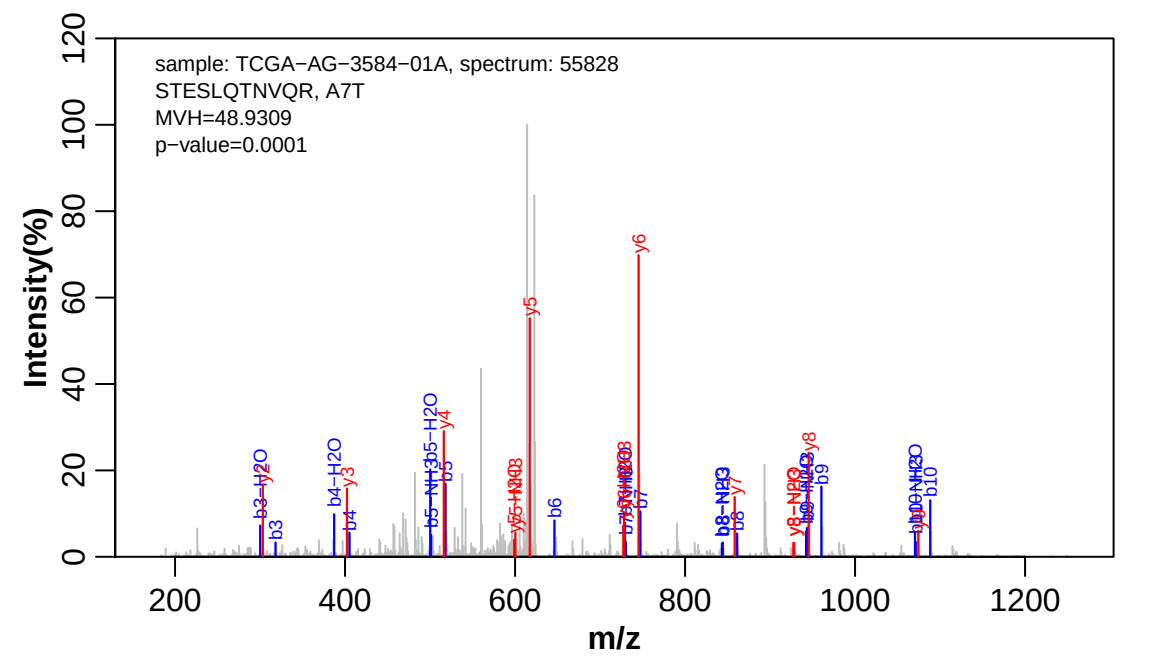

sample: TCGA−AG−3584−01A, spectrum: 139323
QLAQAYEVLSDAK, S3A
MVH=25.0905
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y4
b4
b5
y5
y6−NH3
y6
b6−H2O
b6
y7
b8−H2O
y8
b9
y9
b12

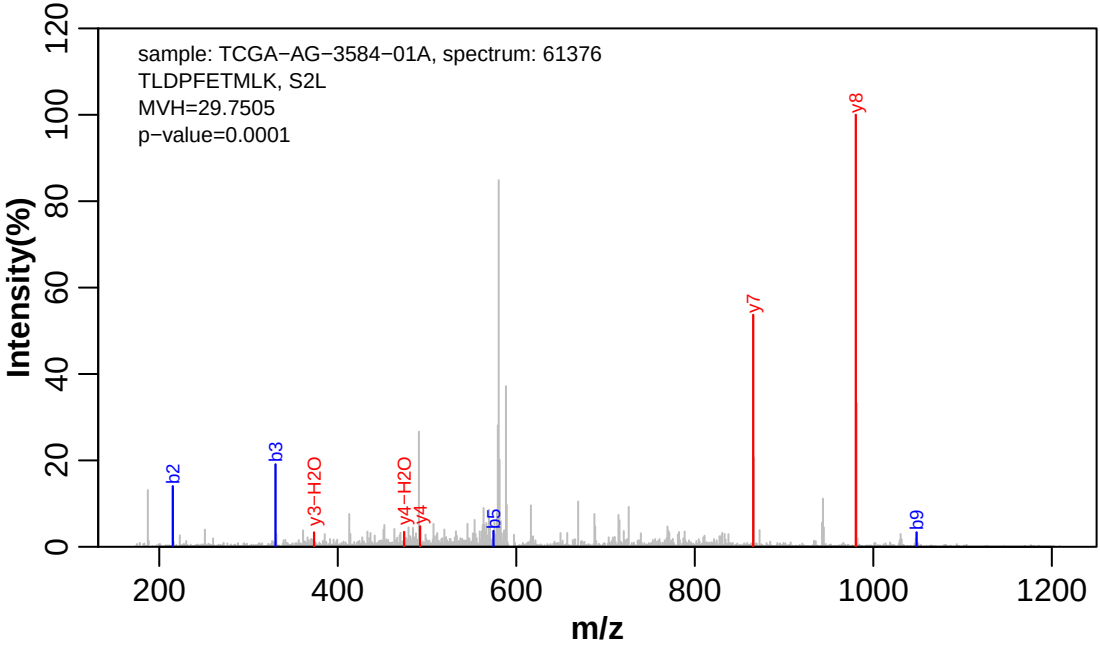

sample: TCGA−AG−3584−01A, spectrum: 100664
QVTSTASTFVKPLFSR, A2V
MVH=32.5903
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y12++
y11++
y6++
y3−NH3
b9−H2O
y7−H2O
y14++−H2O
y6
b8
y15++
b10−NH3
b10−H2O
y11++−H2O
y10++−H2O
y9++−H2O
y8++−H2O
b11−H2O
b11−NH3
y16++−H2O
y16++−NH3

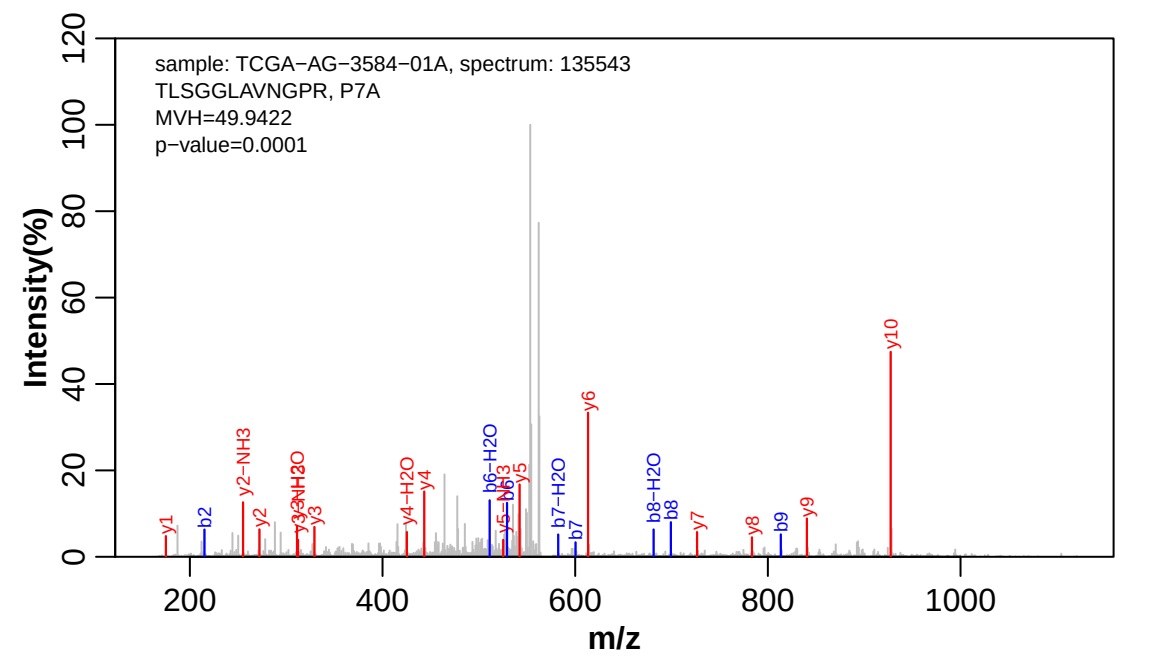

sample: TCGA−AG−3584−01A, spectrum: 61280
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=43.1541
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y10
y7
y13
y15
y4
y3
y16
y17
b18
b11
b14
b4
b5
b13
y10−NH3

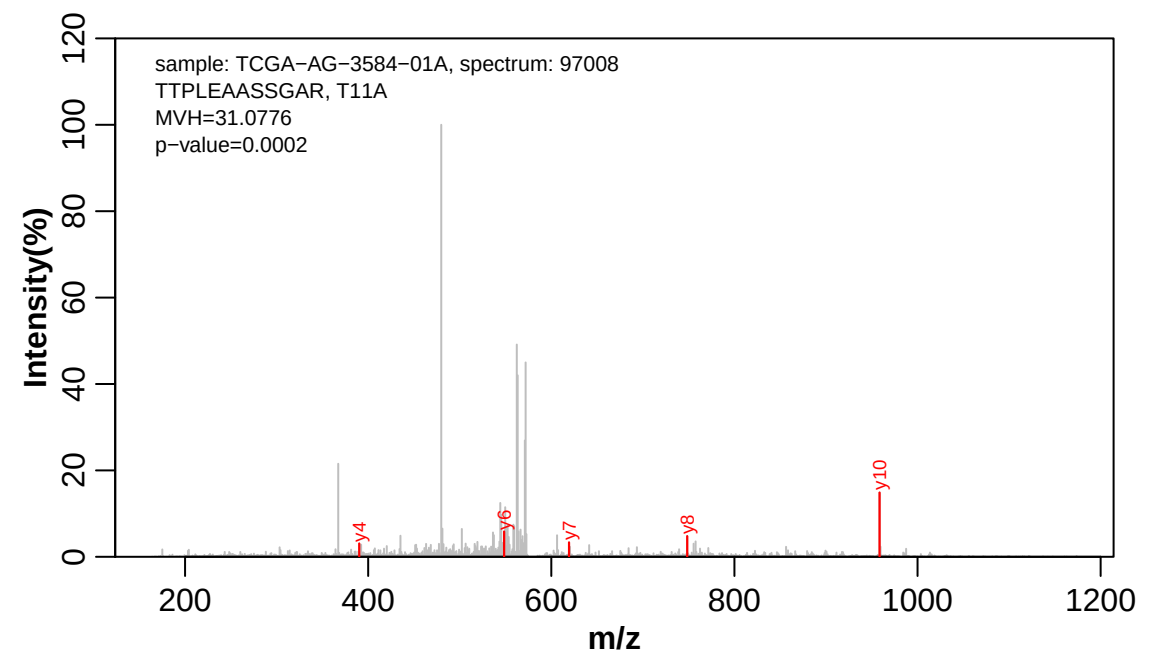

sample: TCGA−AG−3584−01A, spectrum: 22839
SSSYSGEYGSGGGK, G10S
MVH=59.2033
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4−H2O
y5
b4
y6
b5−H2O
b5
b6−H2O
b6
y7
b7−H2O
b7
y8
b8−H2O
b8
y9
y10−H2O
y10
b9−H2O
b9
b10
b11−H2O
b11
y11
y12

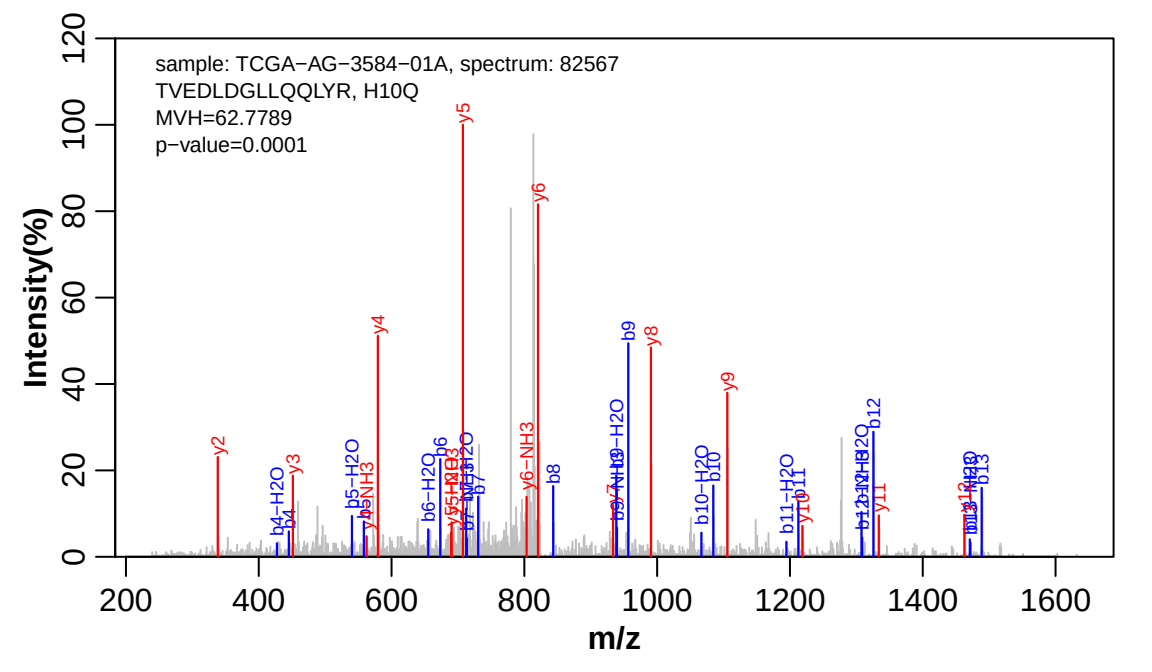

sample: TCGA−AG−3584−01A, spectrum: 22702
SSSYSGEYGSGGGKR, G10S
MVH=39.5788
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b4−H2O
y5
b5−H2O
b5
y6
y7
y8
y9
y10
y11
y12
b14
b8

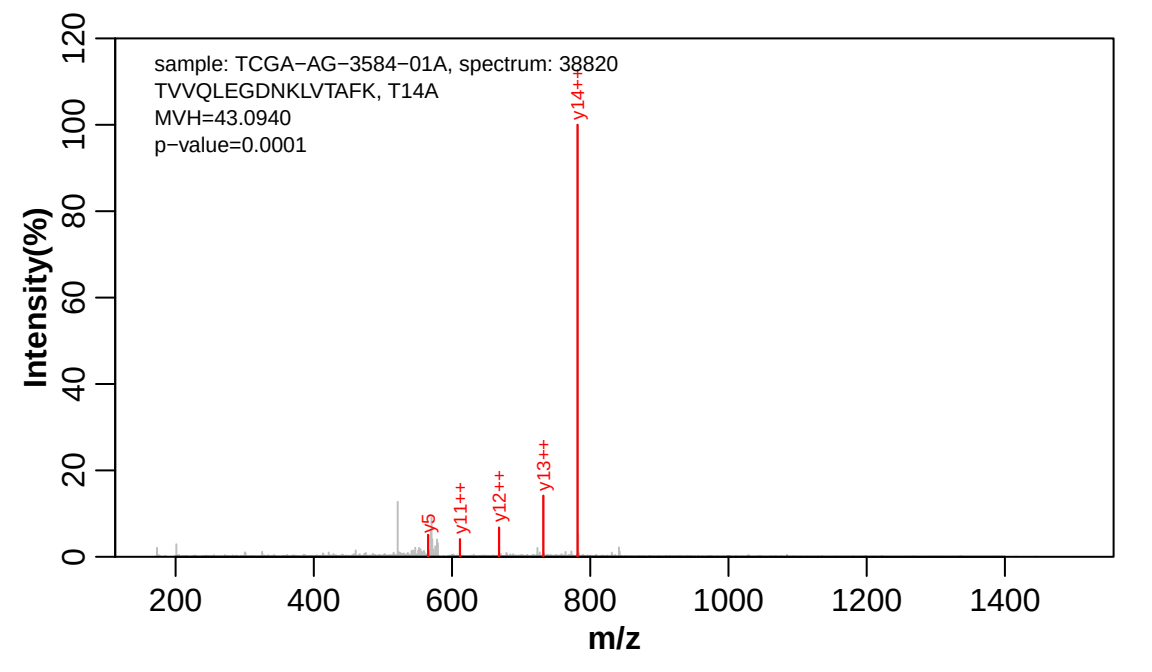

sample: TCGA−AG−3584−01A, spectrum: 55828
STESLQTNVQR, A7T
MVH=48.9309
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
b4−H2O
y3
b4
b5−NH3
b5−H2O
y4
b5
y5−H2O
y5
b6
y6
b7
b8−NH3
b8−H2O
b8
y7
y8−NH3
y8−H2O
y8
b9
b10−NH3
b10−H2O
b10

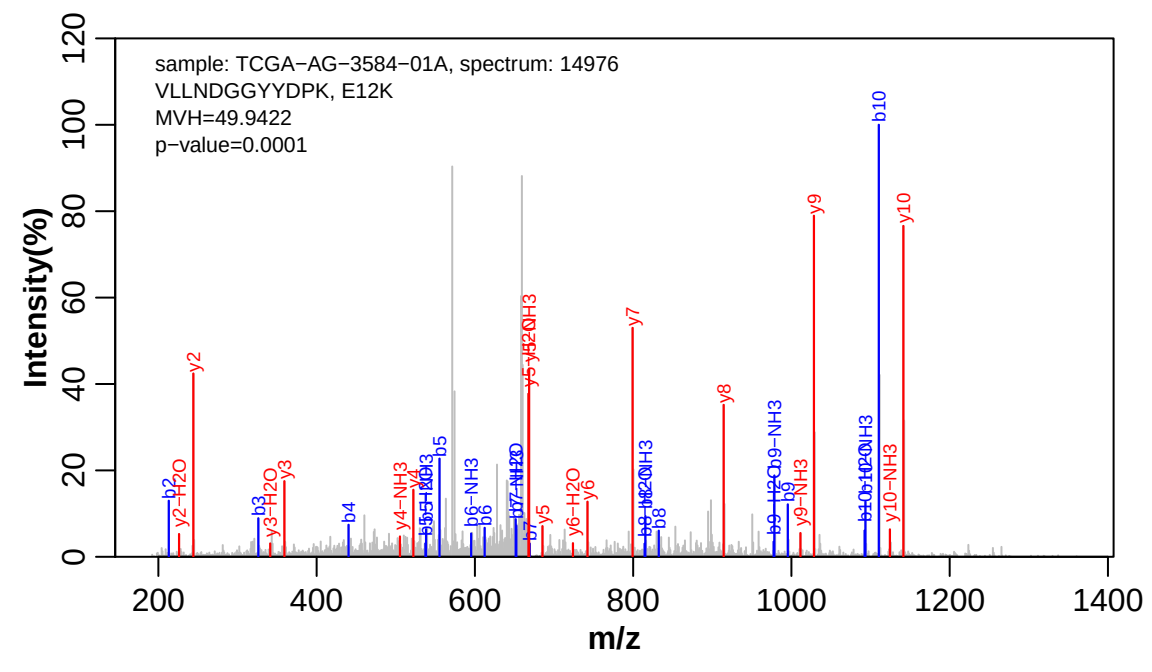

sample: TCGA−AG−3584−01A, spectrum: 61376
TLDPFETMLK, S2L
MVH=29.7505
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3−H2O
y4−H2O
y4
b5
y7
y8
b9

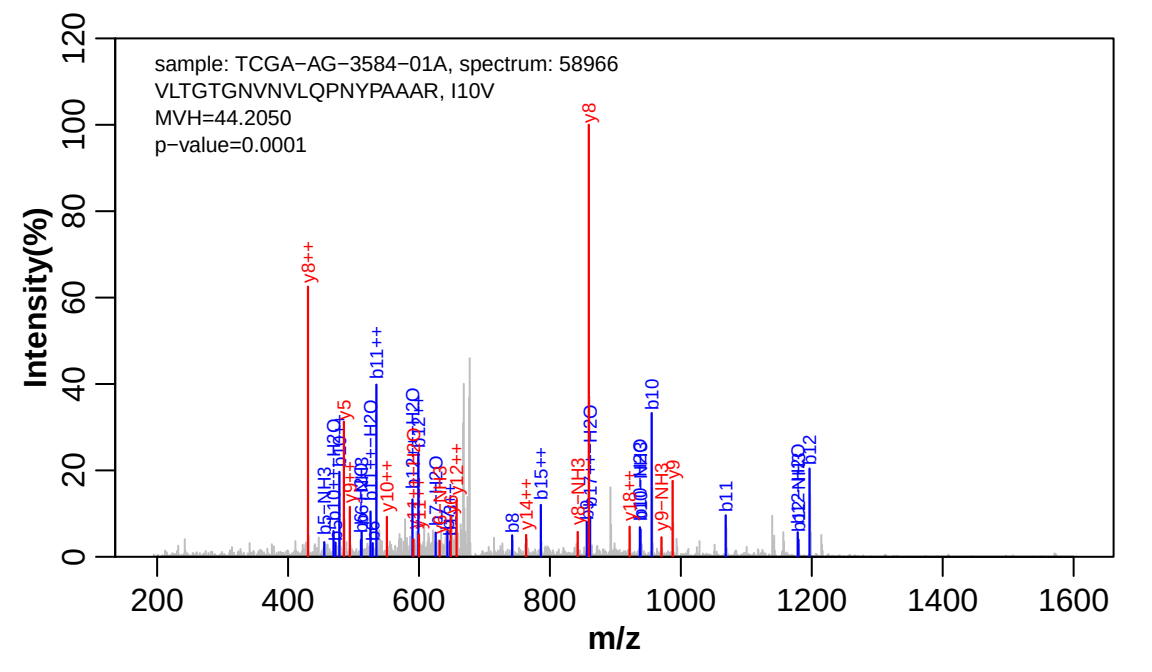

sample: TCGA−AG−3584−01A, spectrum: 135543
TLSGGLAVNGPR, P7A
MVH=49.9422
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2−NH3
y2
y3−NH3
y3
y4−H2O
y4
b6−H2O
b6
y5
y5−NH3
b7−H2O
b7
y6
b8−H2O
b8
y7
y8
b9
y9
y10

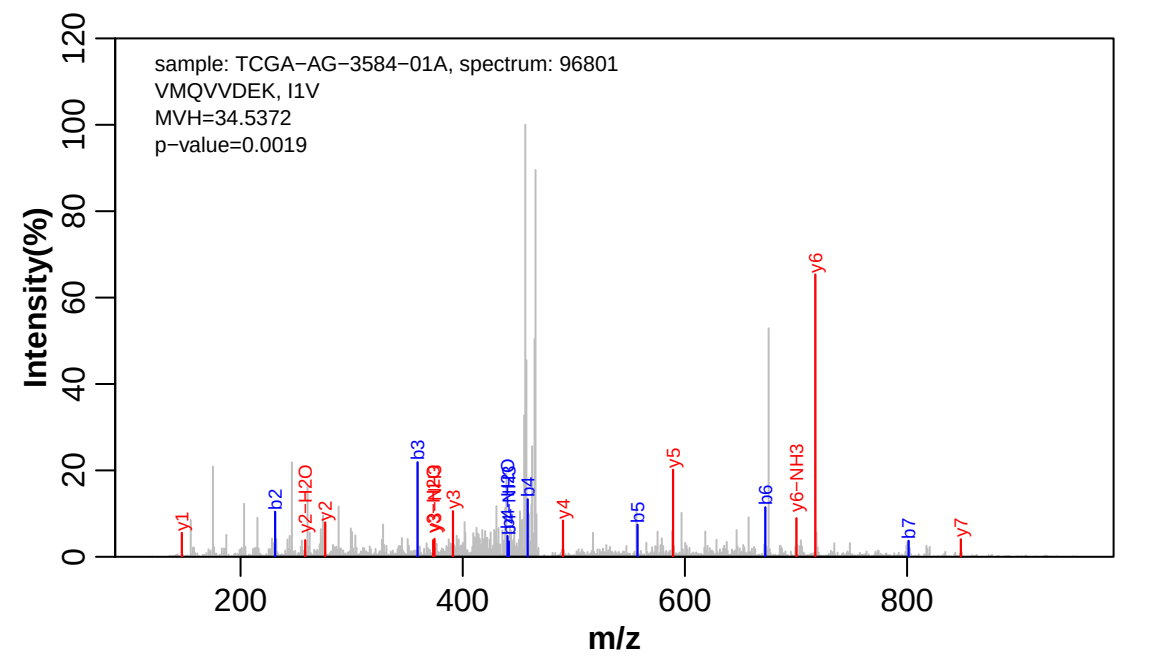

sample: TCGA−AG−3584−01A, spectrum: 97008
TTPLEAASSGAR, T11A
MVH=31.0776
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y4
y6
y7
y8
y10

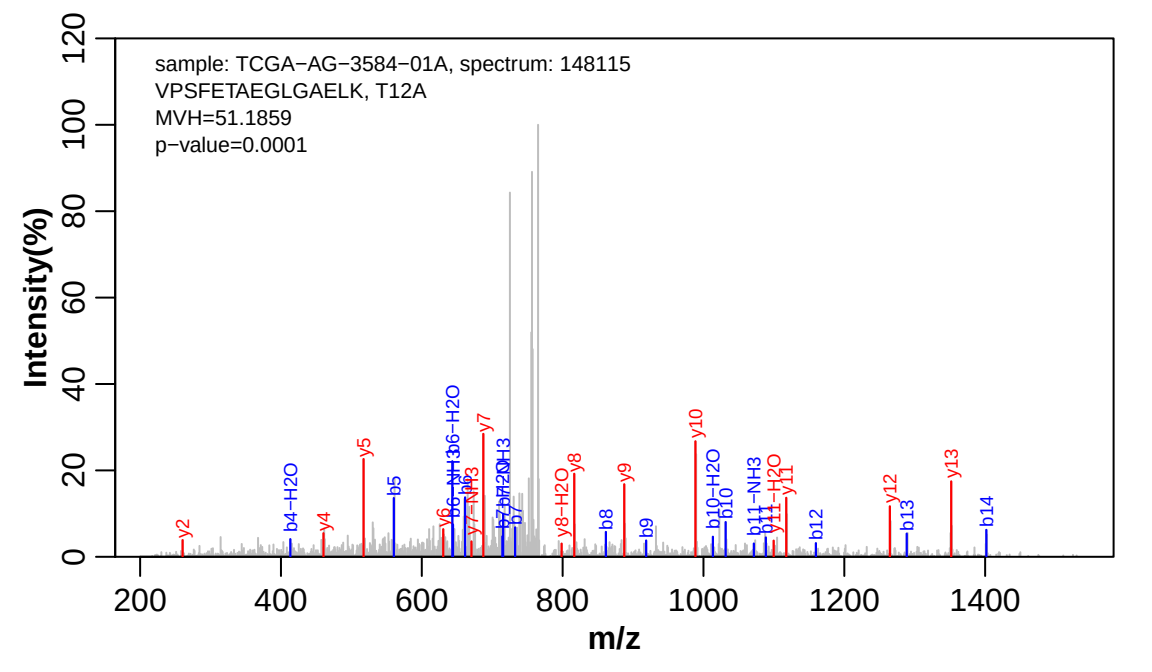

sample: TCGA−AG−3584−01A, spectrum: 82567
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
b9
y9
b8
b12
y11
b13
y6−NH3
b9−H2O
b10−H2O
b11−H2O
b5−H2O
b6−H2O
b4−H2O
y5−NH3

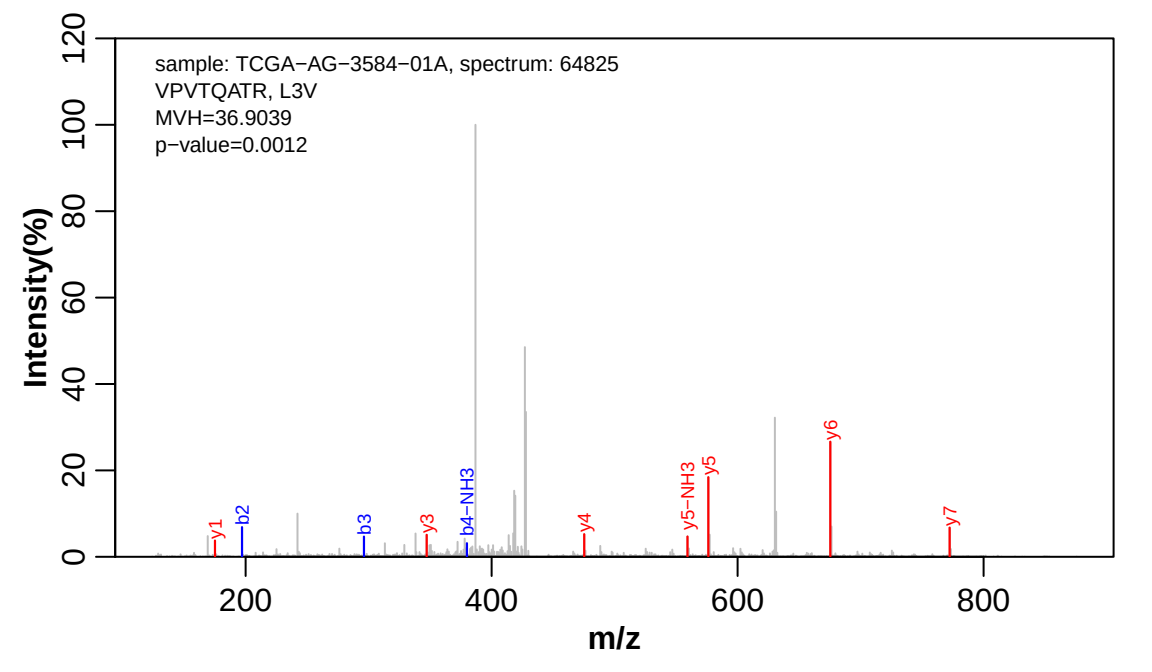

sample: TCGA−AG−3584−01A, spectrum: 38820
TVVQLEGDNKLVTAFK, T14A
MVH=43.0940
p−value=0.0001
y14++
y13++
y12++
y11++
y5
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

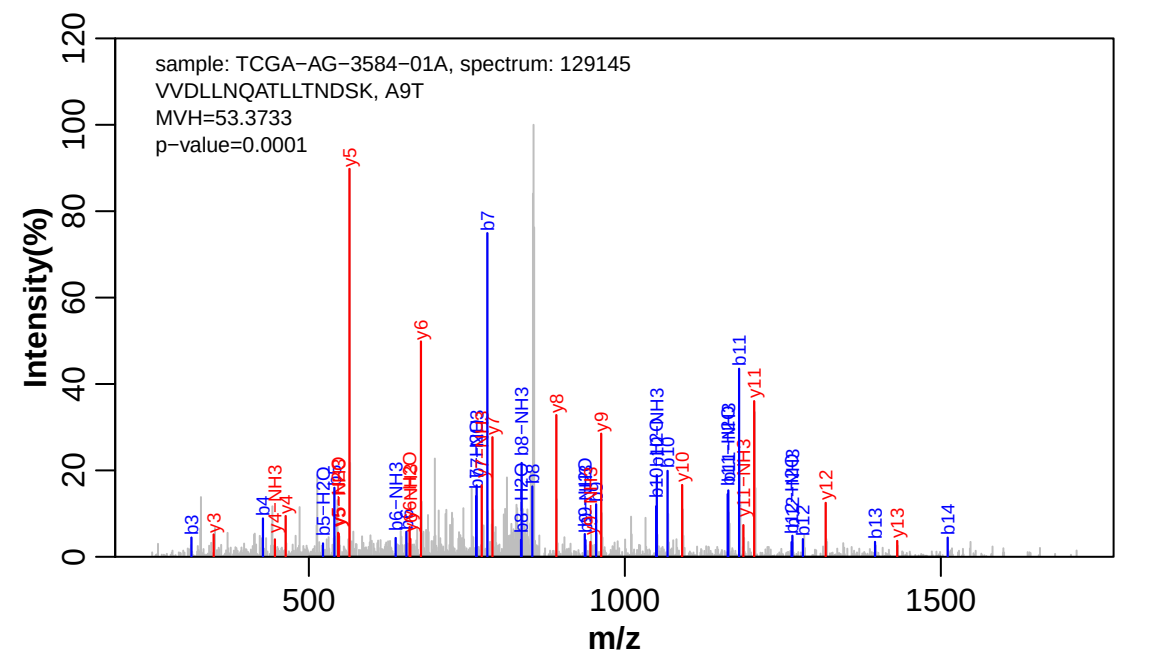

sample: TCGA−AG−3584−01A, spectrum: 14976
VLLNDGGYYDPK, E12K
MVH=49.9422
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b10
y10
y9
y8
y7
y2
y2−H2O
b2
y3
y3−H2O
b3
b4
y4−NH3
y4
b5
b6−NH3
b6
y5
y6−H2O
y6
b8
y9−NH3
b9
y10−NH3

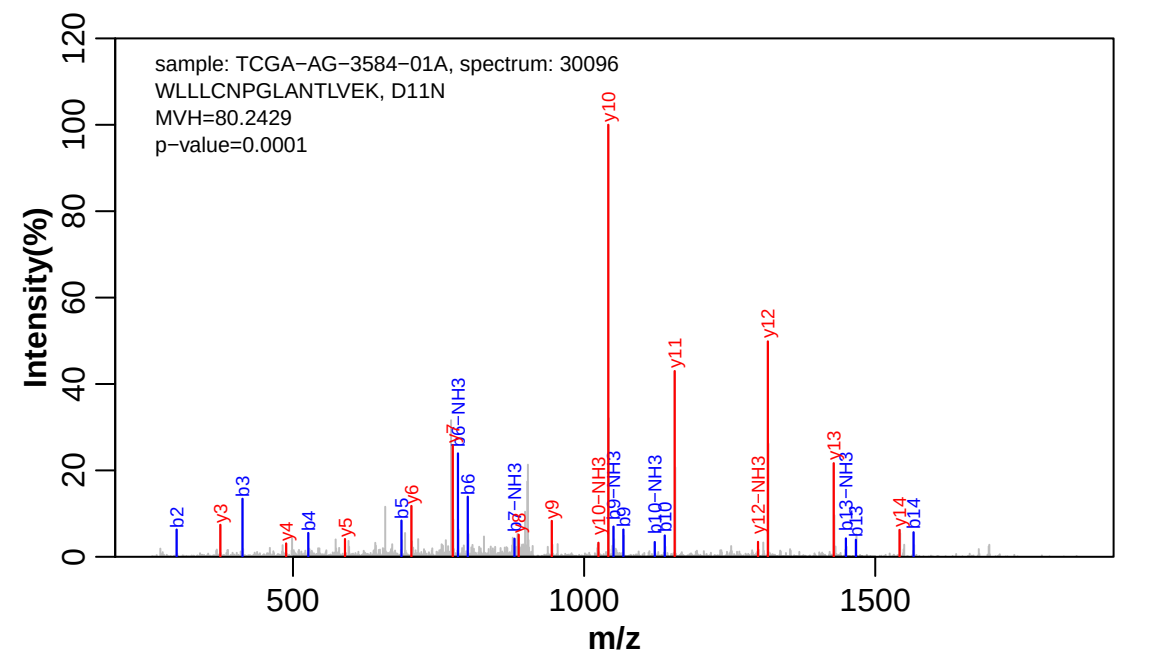

sample: TCGA−AG−3584−01A, spectrum: 58966
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=44.2050
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y8++
b11++
y10++
b15++
y14++
b8
b10
b11
b12
y9
y5

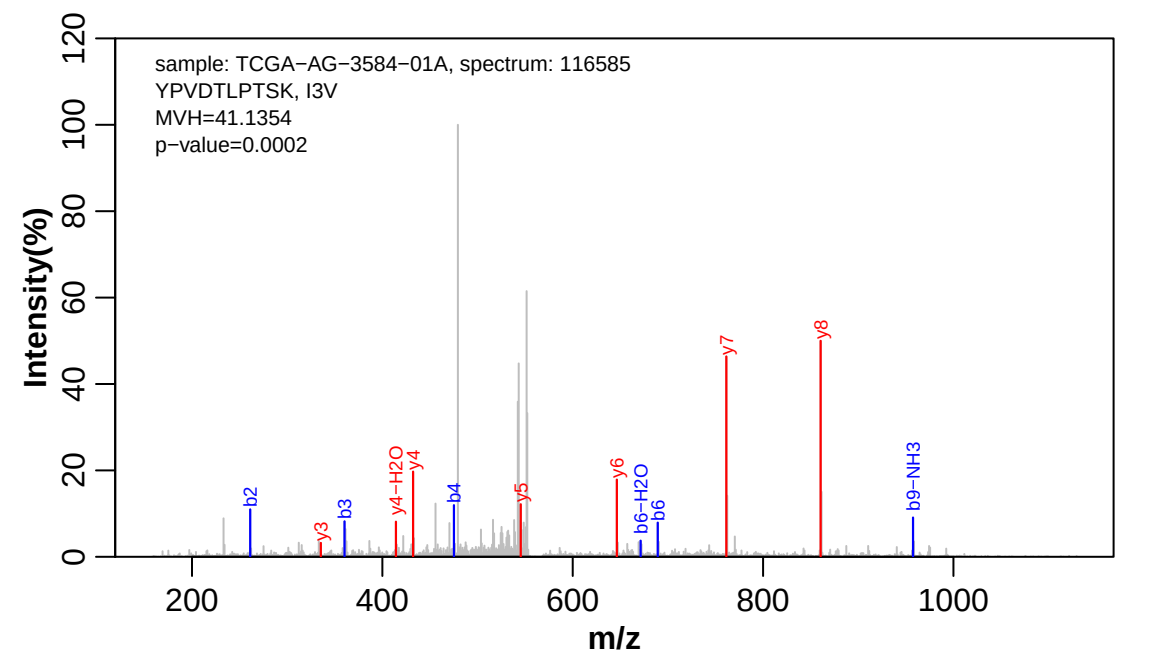

sample: TCGA−AG−3584−01A, spectrum: 96801
VMQVVDEK, I1V
MVH=34.5372
p−value=0.0019
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2−H2O
y2
b3
y3−NH3
y3
b4−NH3
b4−H2O
b4
y4
b5
y5
b6
y6−NH3
y6
b7
y7

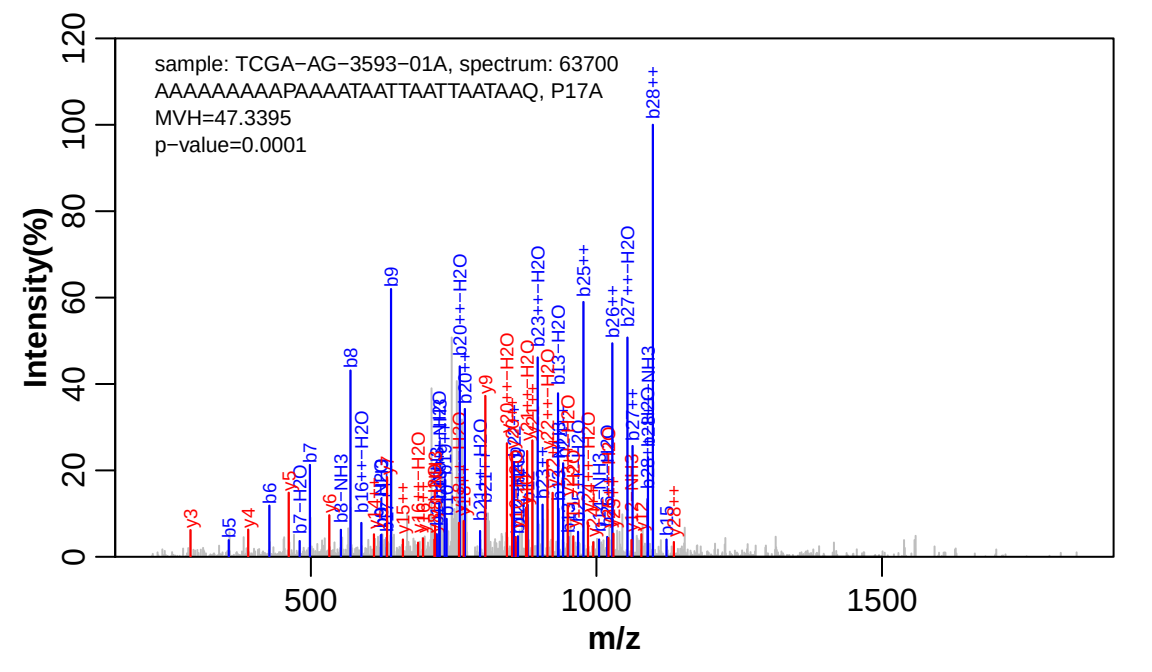

sample: TCGA−AG−3584−01A, spectrum: 148115
VPSFETAEGLGAELK, T12A
MVH=51.1859
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−H2O
y4
y5
b5
y6
b6−NH3
b6−H2O
y7
y7−NH3
b7
y8−H2O
y8
b8
y9
b9
y10
b10−H2O
b10
b11−NH3
y11−H2O
y11
b12
y12
b13
y13
b14

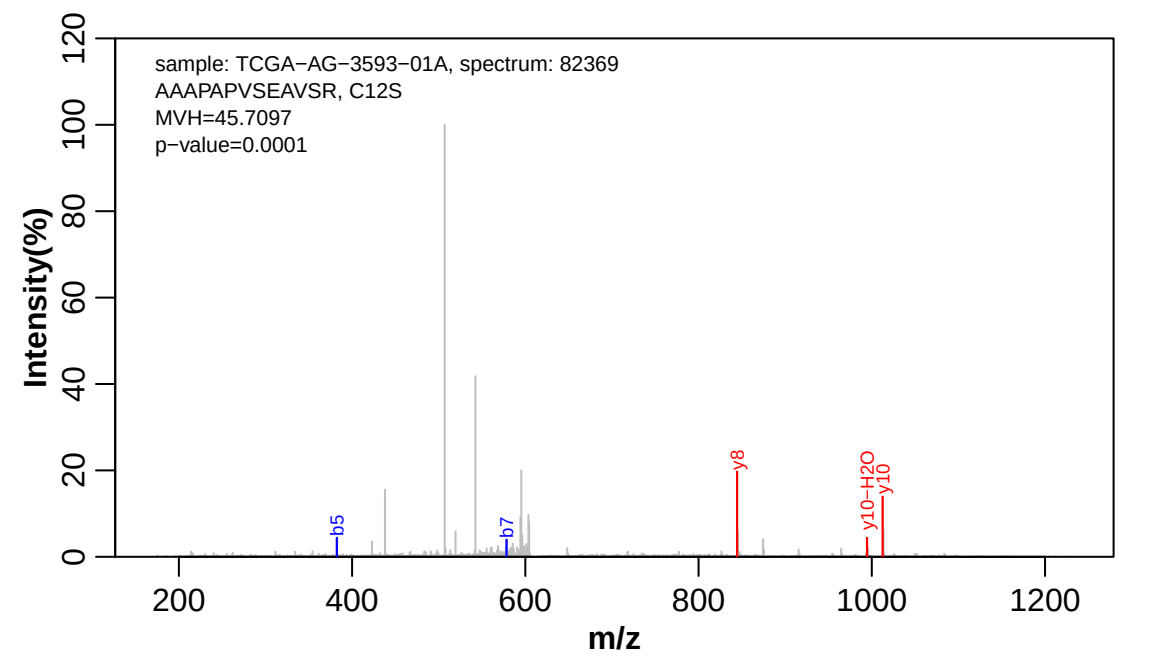

sample: TCGA−AG−3584−01A, spectrum: 64825
VPVTQATR, L3V
MVH=36.9039
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
b4−NH3
y4
y5−NH3
y5
y6
y7

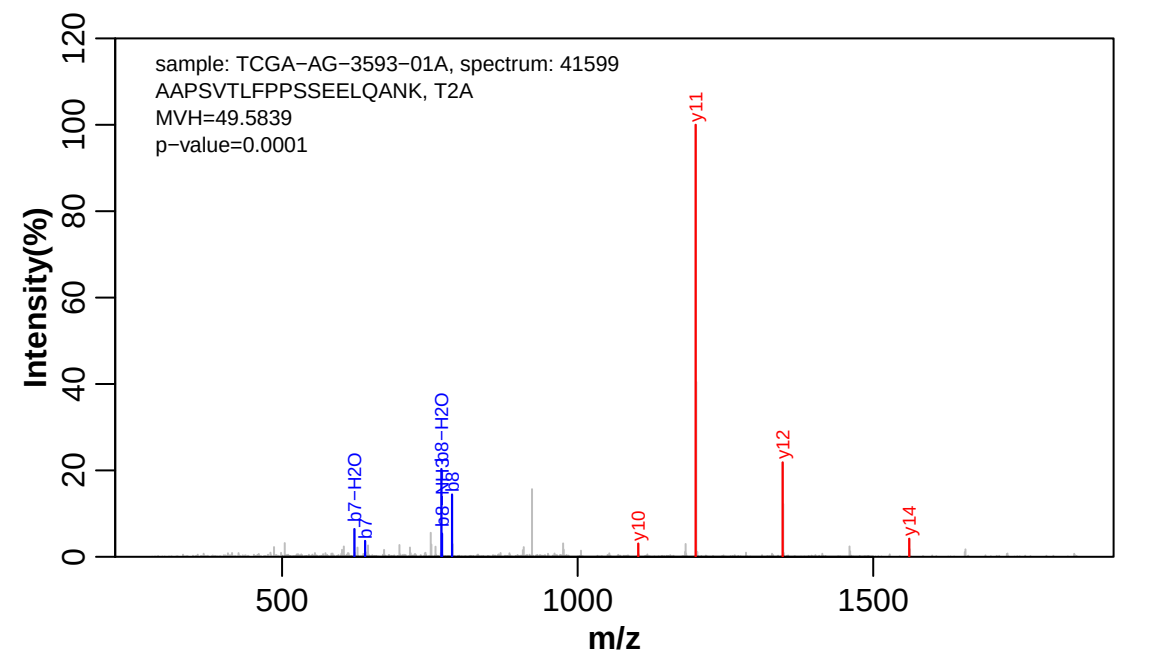

sample: TCGA−AG−3584−01A, spectrum: 129145
VVDLLNQATLLTNDSK, A9T
MVH=53.3733
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y3
b4
y4−NH3
y4
b5−H2O
y5
y5−NH3
b6−NH3
y6−NH3
y6−H2O
y6
b7
b7−NH3
y7
b8−NH3
b8−H2O
b8
y8
y9
b10
b10−H2O−NH3
y10
b11
b11−NH3
y11
y11−NH3
b12
y12
b13
y13
b14

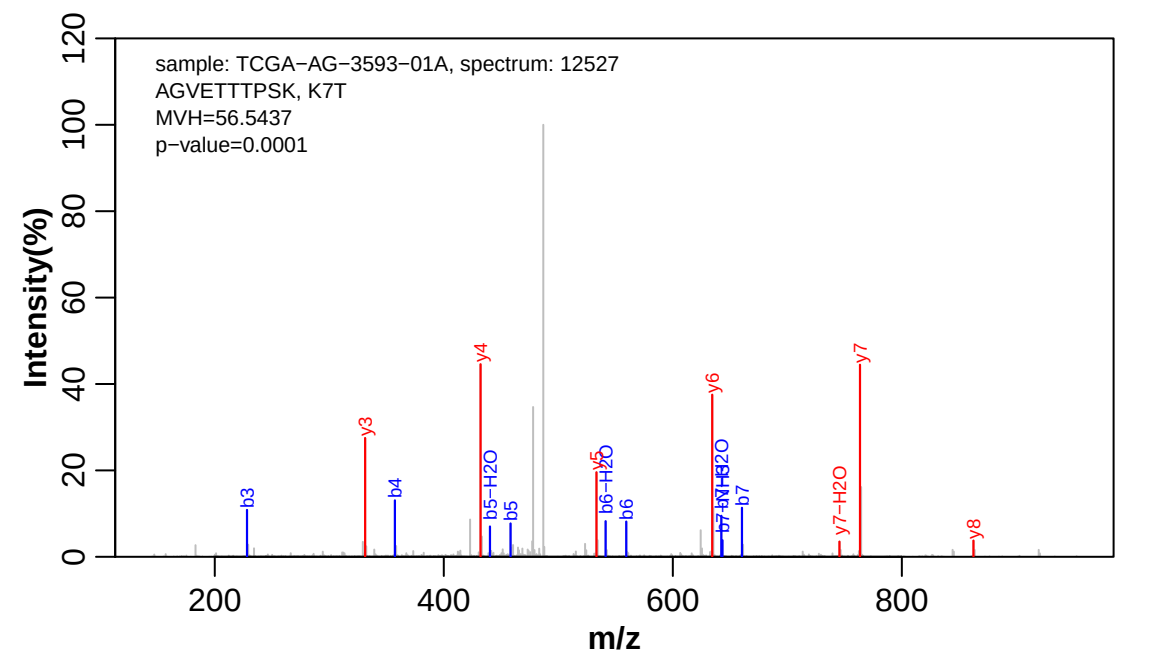

sample: TCGA−AG−3584−01A, spectrum: 30096
WLLLCNPGLANTLVEK, D11N
MVH=80.2429
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
y4
b4
y5
b5
y6
b6
y7
b7−NH3
b8−NH3
y9
y10
y10−NH3
b9−NH3
b9
b10−NH3
b10
y11
y12
y12−NH3
y13
b13−NH3
b13
y14
b14

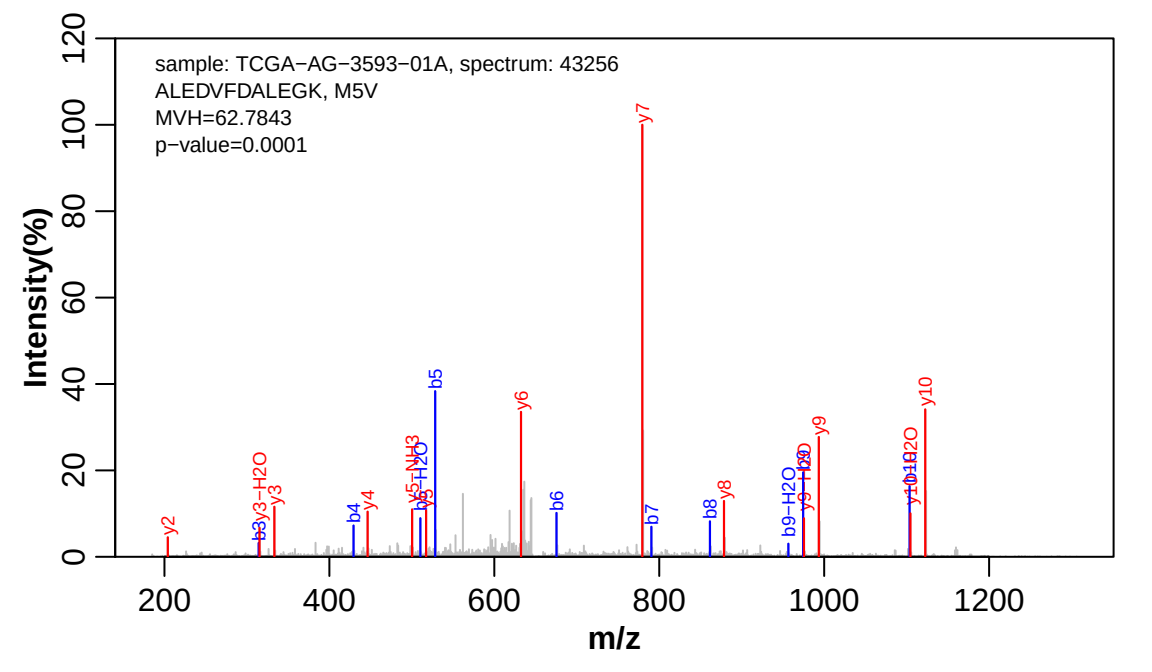

sample: TCGA−AG−3584−01A, spectrum: 116585
YPVDTLPTSK, I3V
MVH=41.1354
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b3
y4−H2O
y4
b4
y5
y6
b6−H2O
b6
y7
y8
b9−NH3

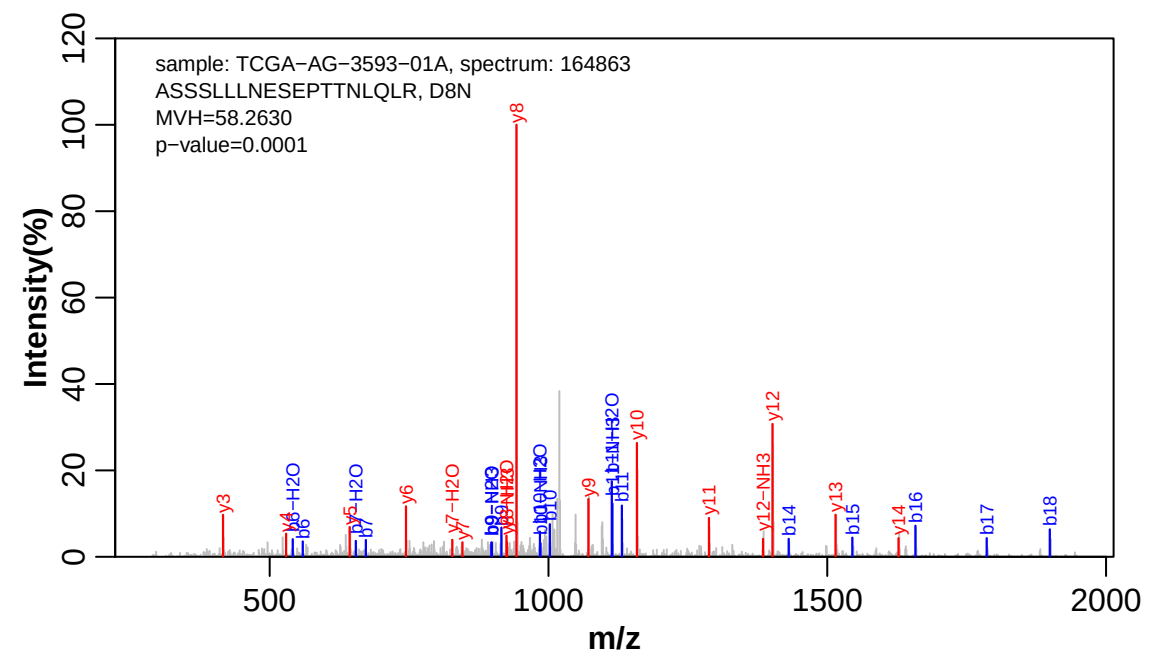

sample: TCGA−AG−3593−01A, spectrum: 63700
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=47.3395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
y4
b6
y5
b7−H2O
b7
y6
b8−NH3
b8
b16++−H2O
b9
y15++
y16++−H2O
b20++−H2O
b20++
y9
b22++−H2O
b23++−H2O
b13−H2O
b25++
b26++
b27++−H2O
b28++
y15
y28++

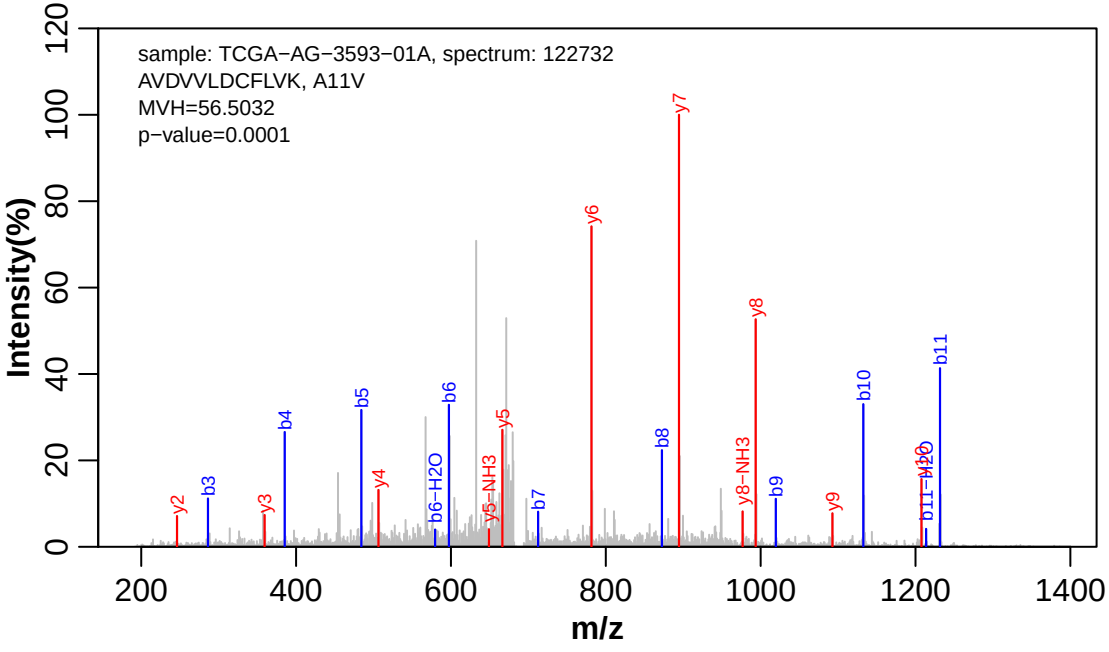

sample: TCGA−AG−3593−01A, spectrum: 82369
AAAPAPVSEAVSR, C12S
MVH=45.7097
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10−H2O
y10

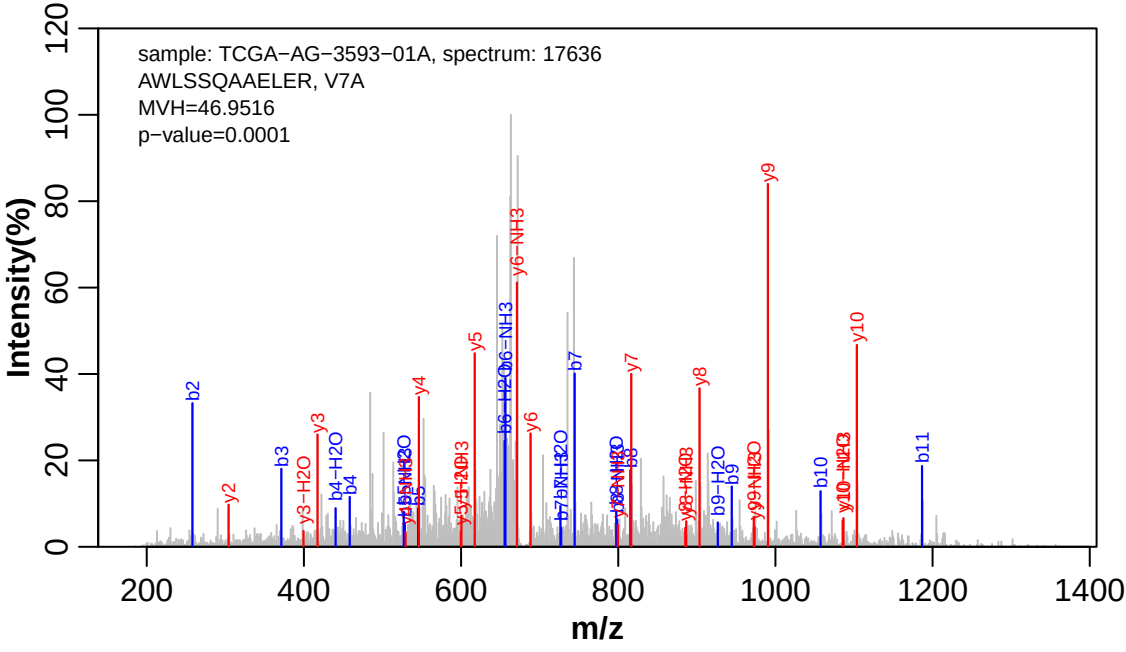

sample: TCGA−AG−3593−01A, spectrum: 41599
AAPSVTLFPPSSEELQANK, T2A
MVH=49.5839
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7−H2O
b7
b8−NH3
b8−H2O
b8
y10
y11
y12
y14

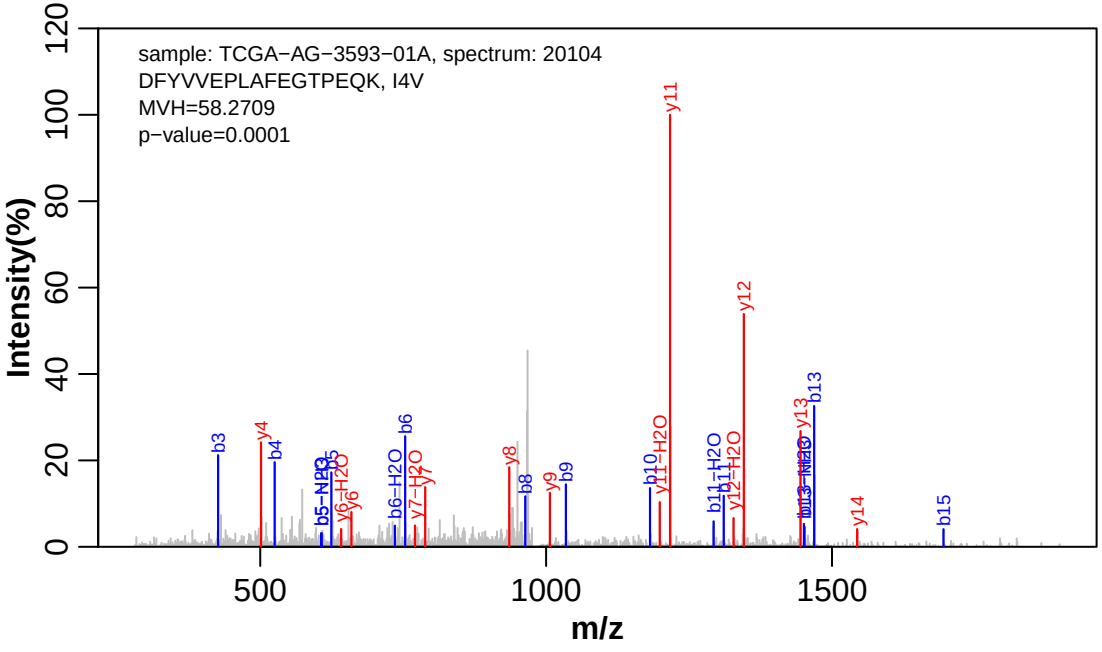

sample: TCGA−AG−3593−01A, spectrum: 12527
AGVETTTPSK, K7T
MVH=56.5437
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7−H2O
y7
y8

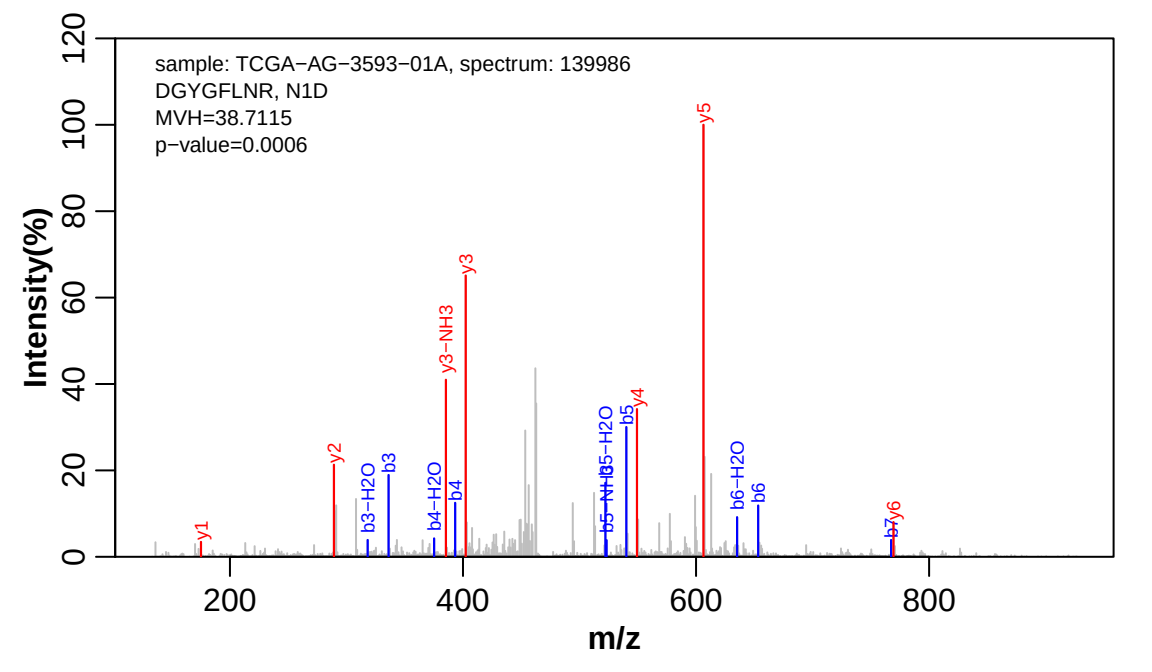

sample: TCGA−AG−3593−01A, spectrum: 43256
ALEDVFDALEGK, M5V
MVH=62.7843
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y6
b6
y7
b7
b8
y8
b9−H2O
y9
y10
y10−H2O

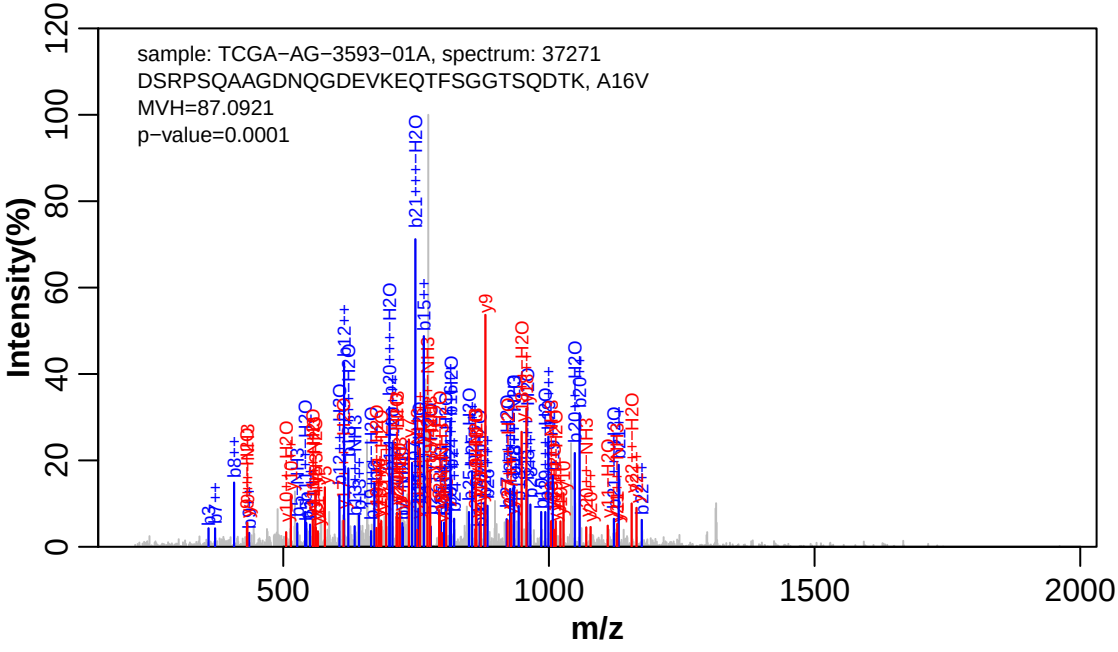

sample: TCGA−AG−3593−01A, spectrum: 164863
ASSSLLLNESEPTTNLQLR, D8N
MVH=58.2630
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y6
y9
y10
y11
y12
y13
b14
b15
y14
b16
b17
b18

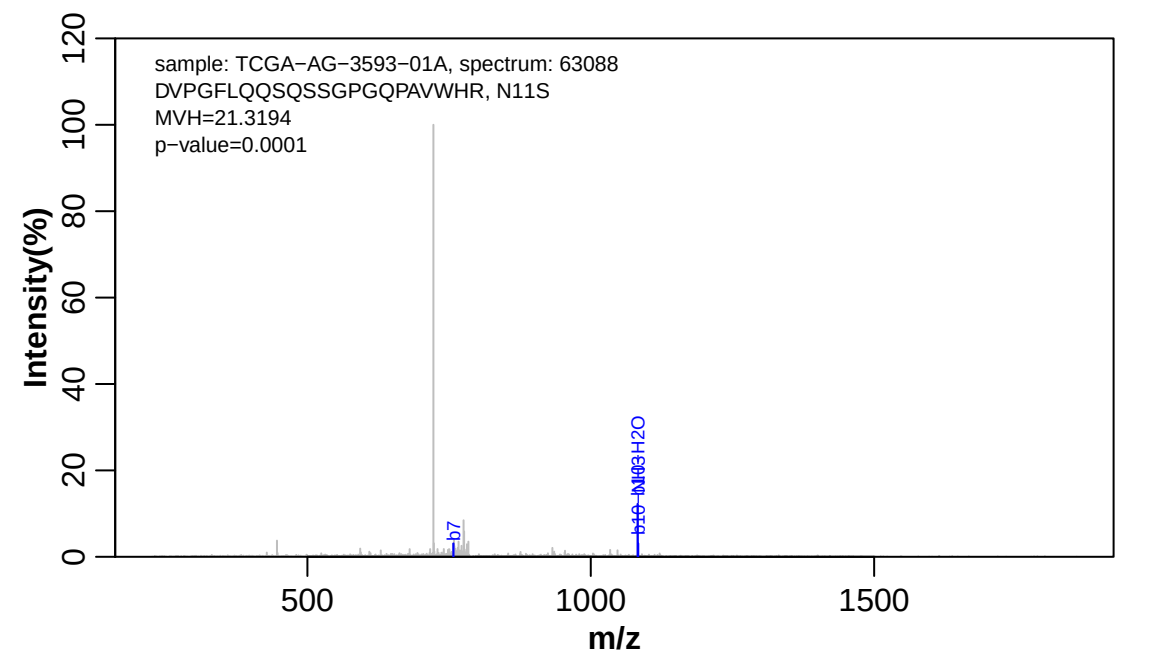

sample: TCGA−AG−3593−01A, spectrum: 122732
AVDVVLDCFLVK, A11V
MVH=56.5032
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3
b4
b5
y4
b6
b6−H2O
y5−NH3
y5
b7
y6
b8
y7
y8
y8−NH3
b9
y9
b10
b11
b11−H2O
b11−NH3

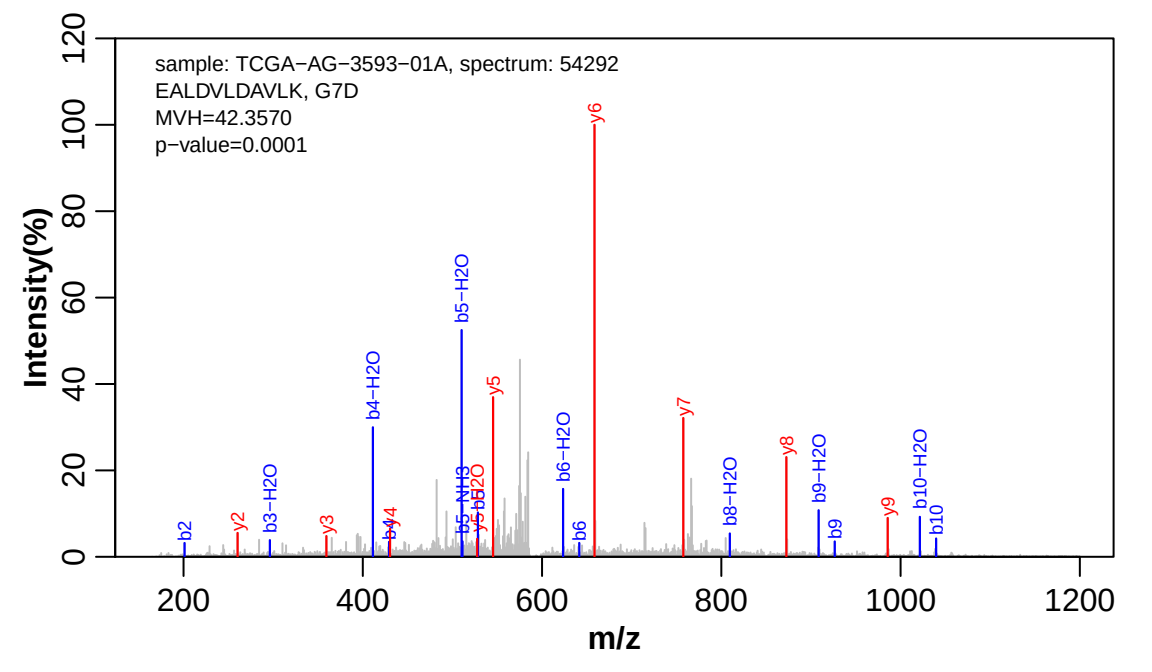

sample: TCGA−AG−3593−01A, spectrum: 17636
AWLSSQAAELER, V7A
MVH=46.9516
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4−H2O
b4
b5
y4
y5
b6−H2O
b6−NH3
y6−NH3
y6
b7
b7−H2O
y7
y8
b9−H2O
b9
y9
b10
y10
b11

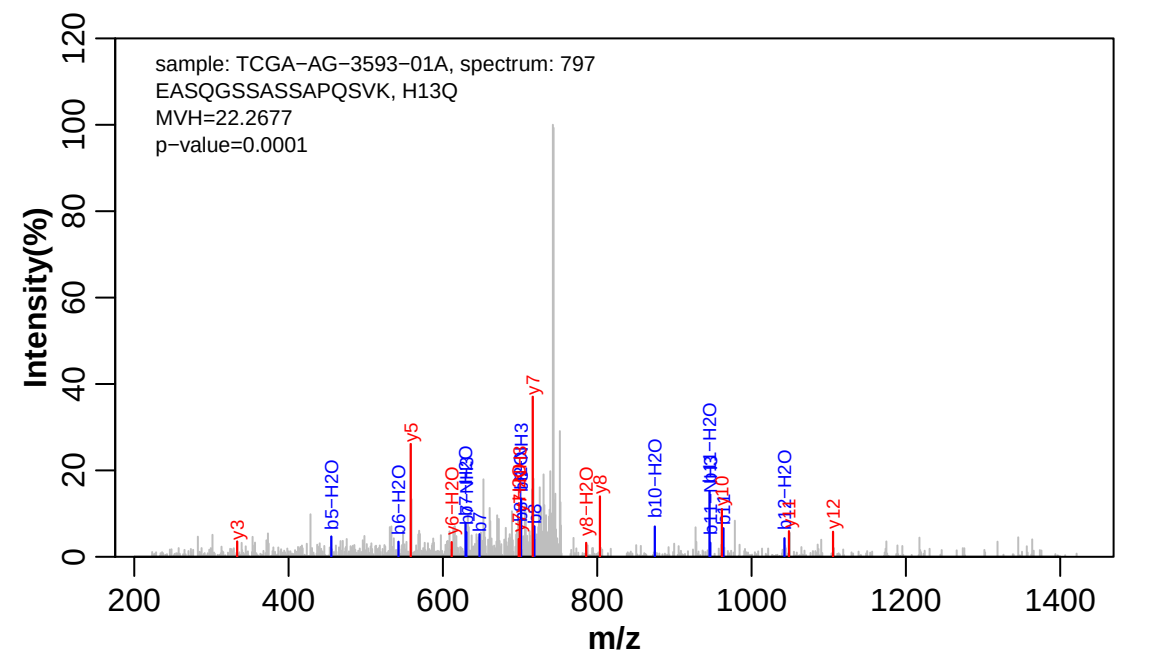

sample: TCGA−AG−3593−01A, spectrum: 20104
DFYVVEPLAFEGTPEQK, I4V
MVH=58.2709
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5−NH3
b5
y6−H2O
y6
b6−H2O
b6
y7−H2O
y7
y8
b8
y9
b9
b10
y11−H2O
y11
b11−H2O
b11
y12−H2O
y12
y13
b13
y14
b15

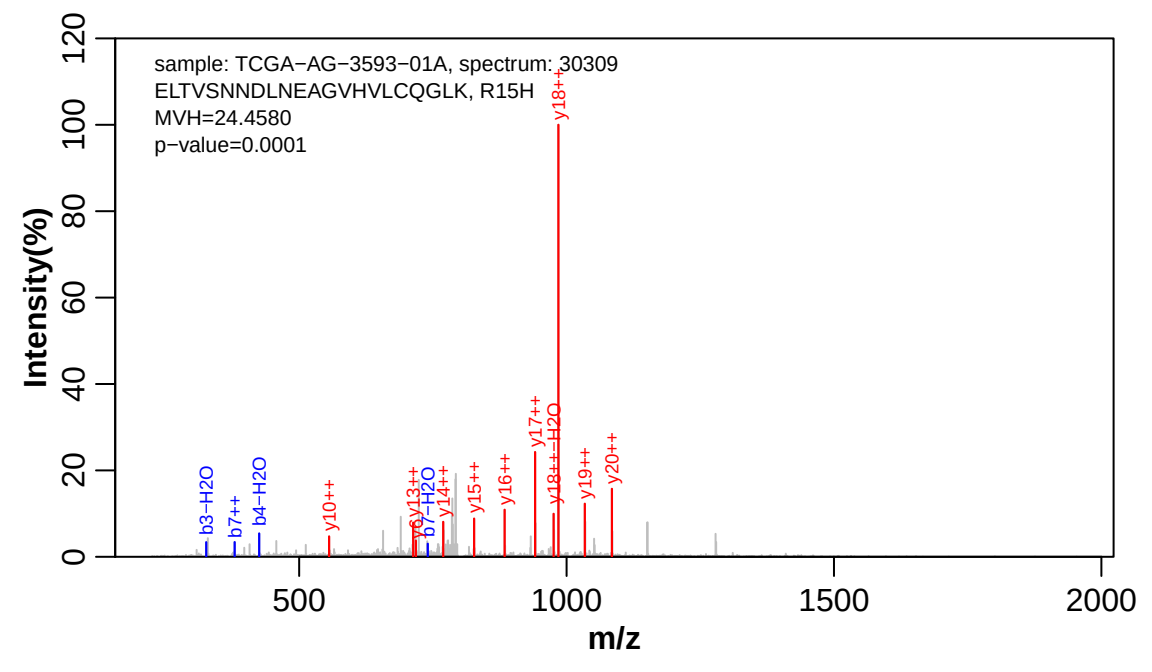

sample: TCGA−AG−3593−01A, spectrum: 139986
DGYGFLNR, N1D
MVH=38.7115
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

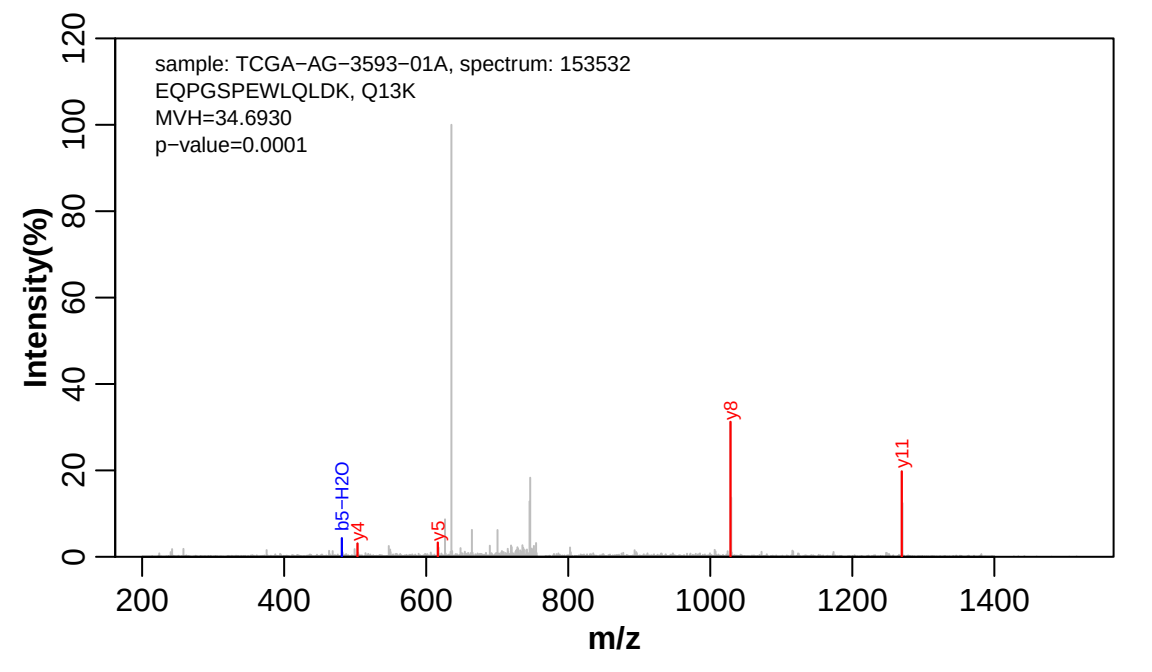

sample: TCGA−AG−3593−01A, spectrum: 37271
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=87.0921
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

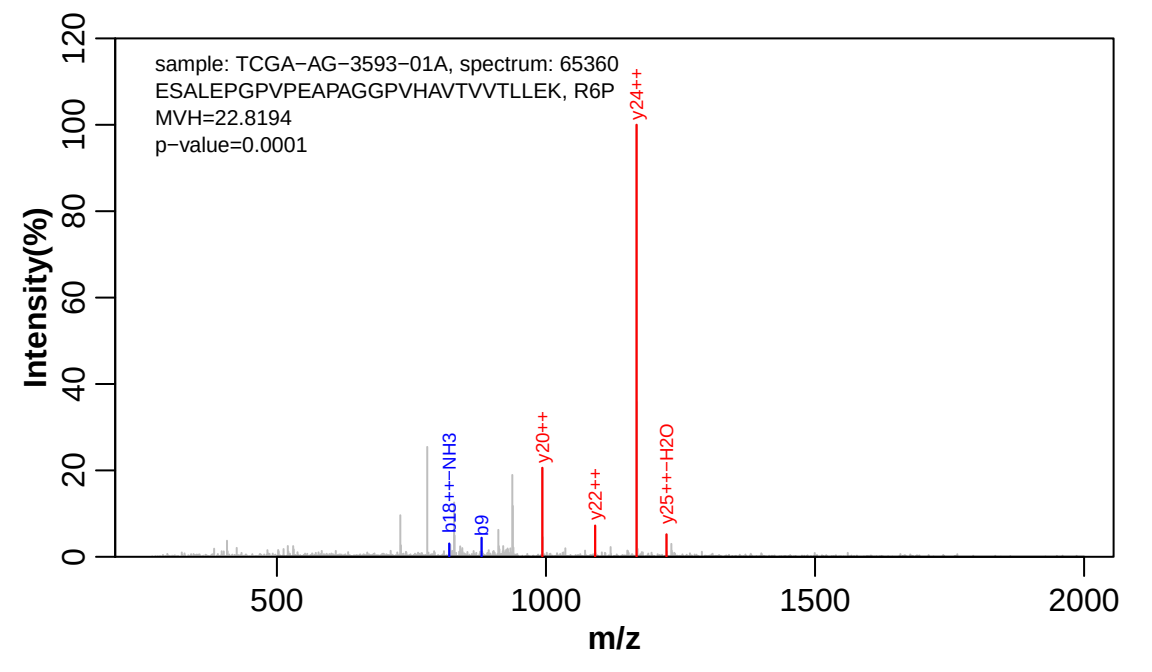

sample: TCGA−AG−3593−01A, spectrum: 63088
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=21.3194
p−value=0.0001
b7
b10−NH3
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

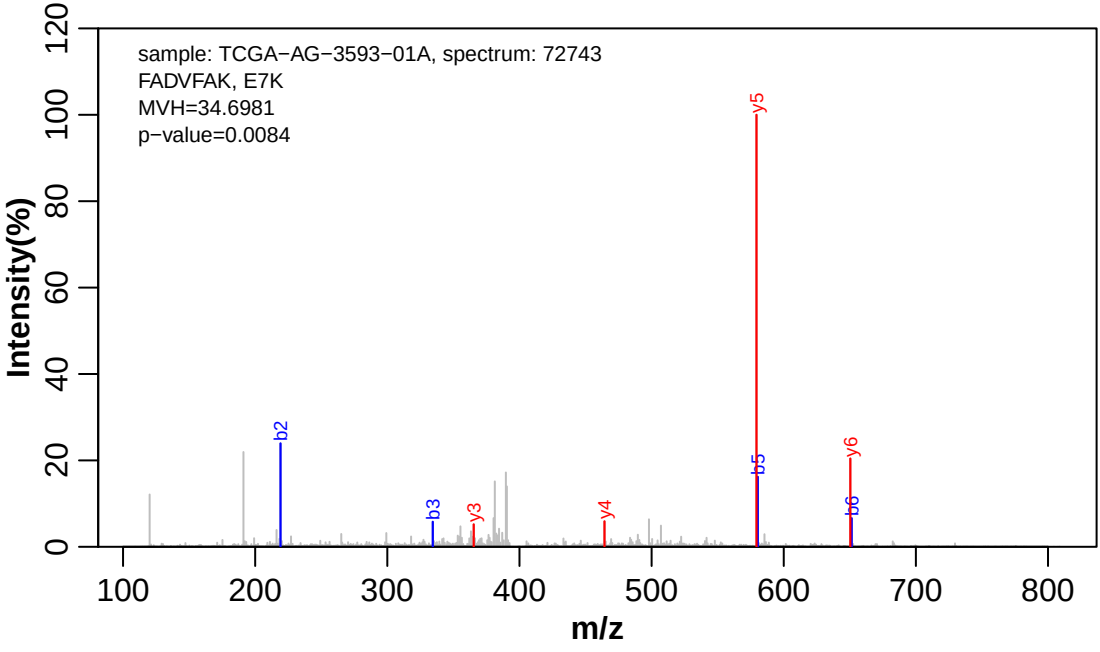

sample: TCGA−AG−3593−01A, spectrum: 54292
EALDVLDAVLK, G7D
MVH=42.3570
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
b4
b5−NH3
b5
y4
b5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

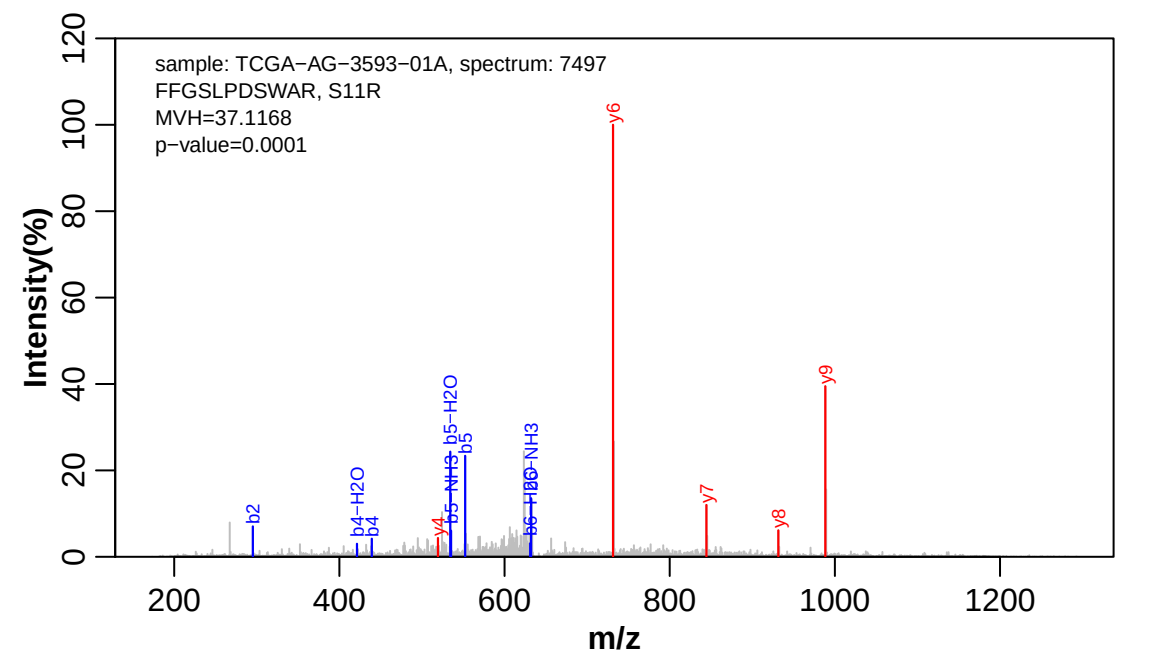

sample: TCGA−AG−3593−01A, spectrum: 797
EASQGSSASSAPQSVK, H13Q
MVH=22.2677
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b5−H2O
y5
b6−H2O
y6−H2O
b7−NH3
b7
y7
y8
y8−H2O
b10−H2O
b11−NH3
b11−H2O
y10
b12−H2O
y12

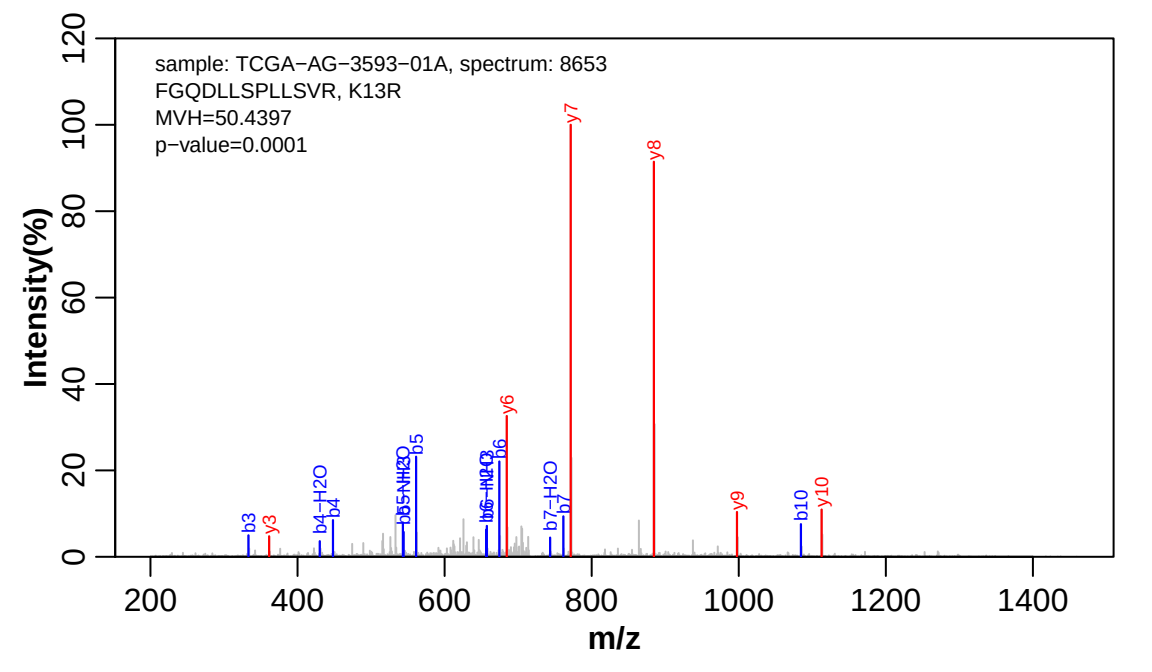

sample: TCGA−AG−3593−01A, spectrum: 30309
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=24.4580
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b7++
b4−H2O
y10++
y6
y13++
b7−H2O
y14++
y15++
y16++
y17++
y18++−H2O
y18++
y19++
y20++

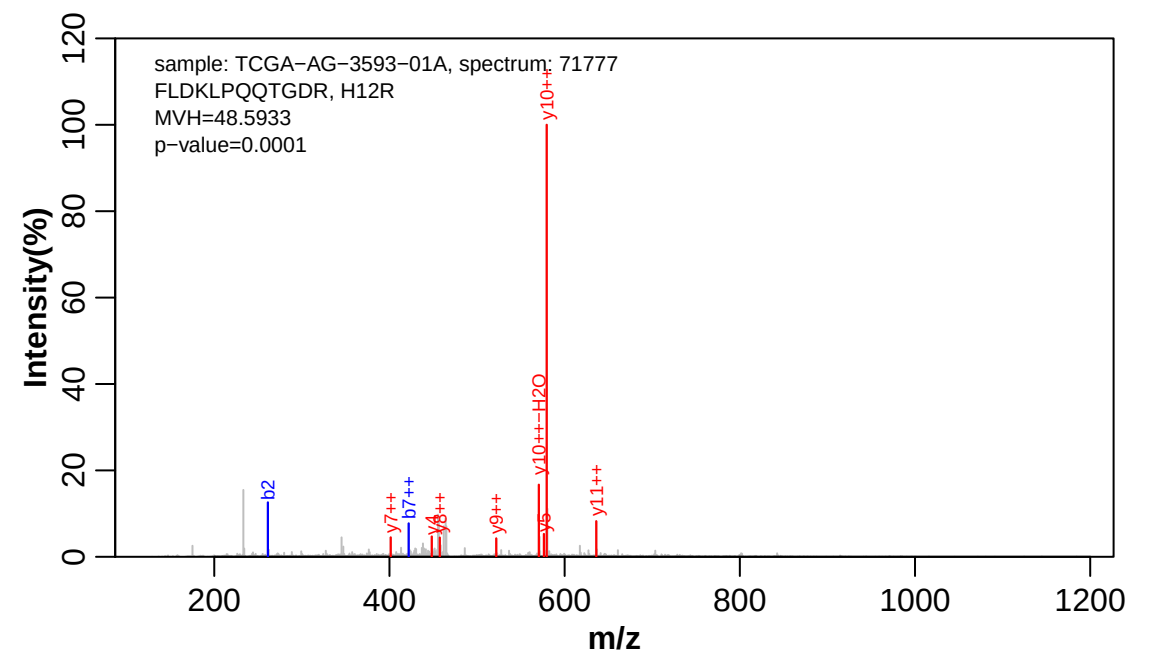

sample: TCGA−AG−3593−01A, spectrum: 153532
EQPGSPEWLQLDK, Q13K
MVH=34.6930
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

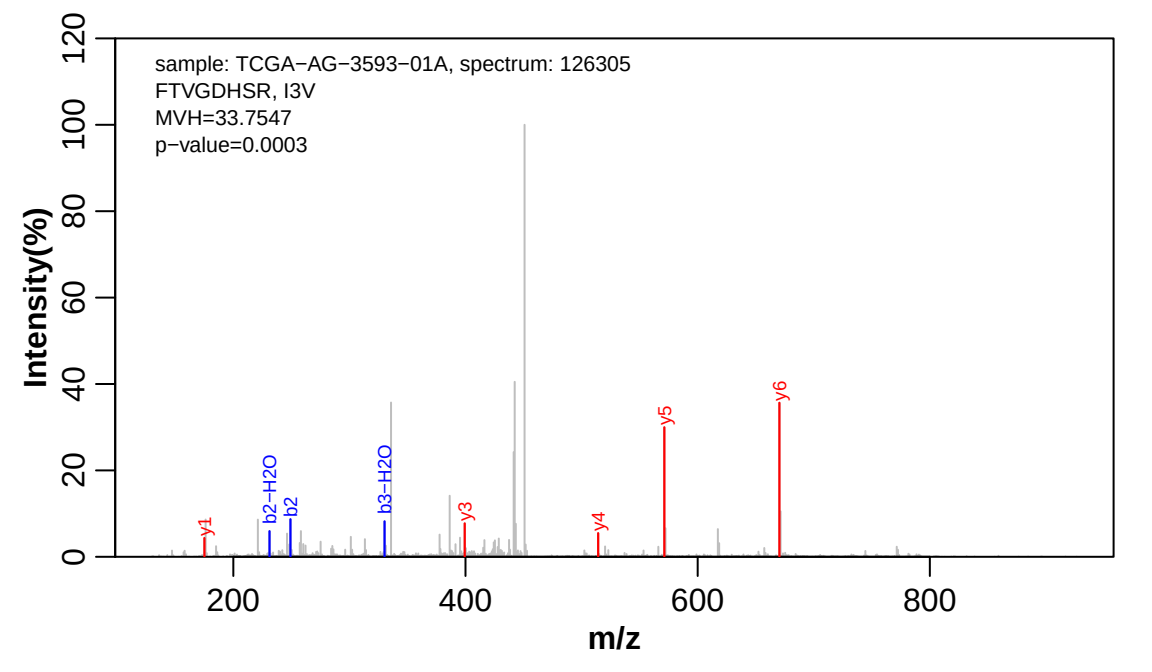

sample: TCGA−AG−3593−01A, spectrum: 65360
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=22.8194
p−value=0.0001
y24++
y20++
b18++−NH3
b9
y22++
y25++−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

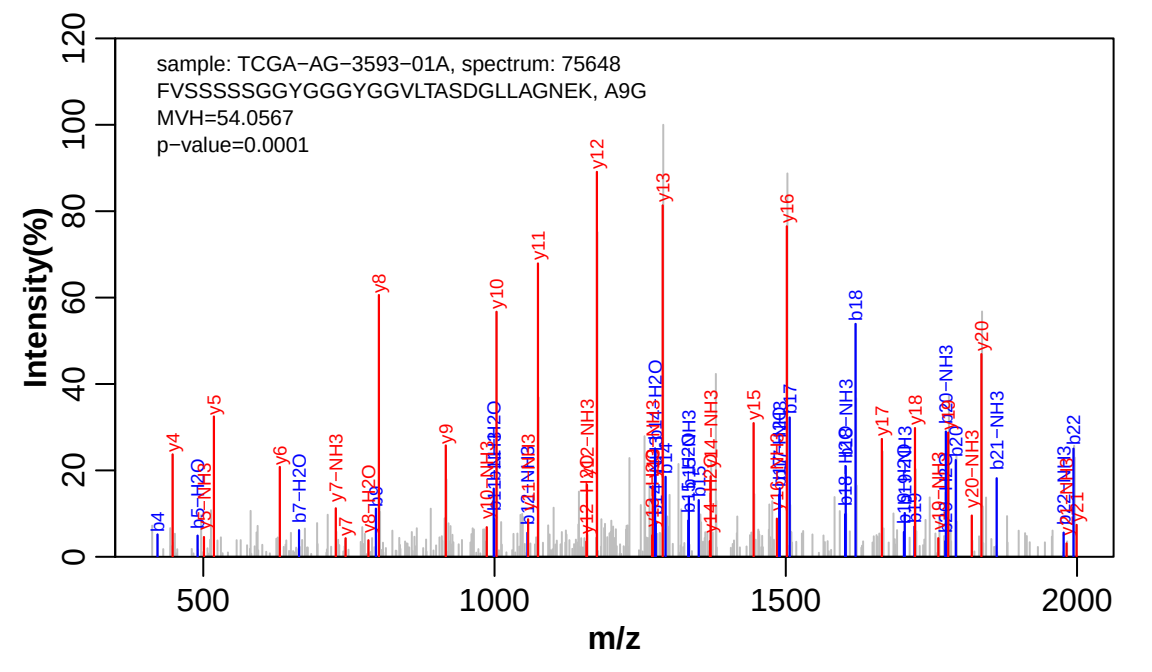

sample: TCGA−AG−3593−01A, spectrum: 72743
FADVFAK, E7K
MVH=34.6981
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

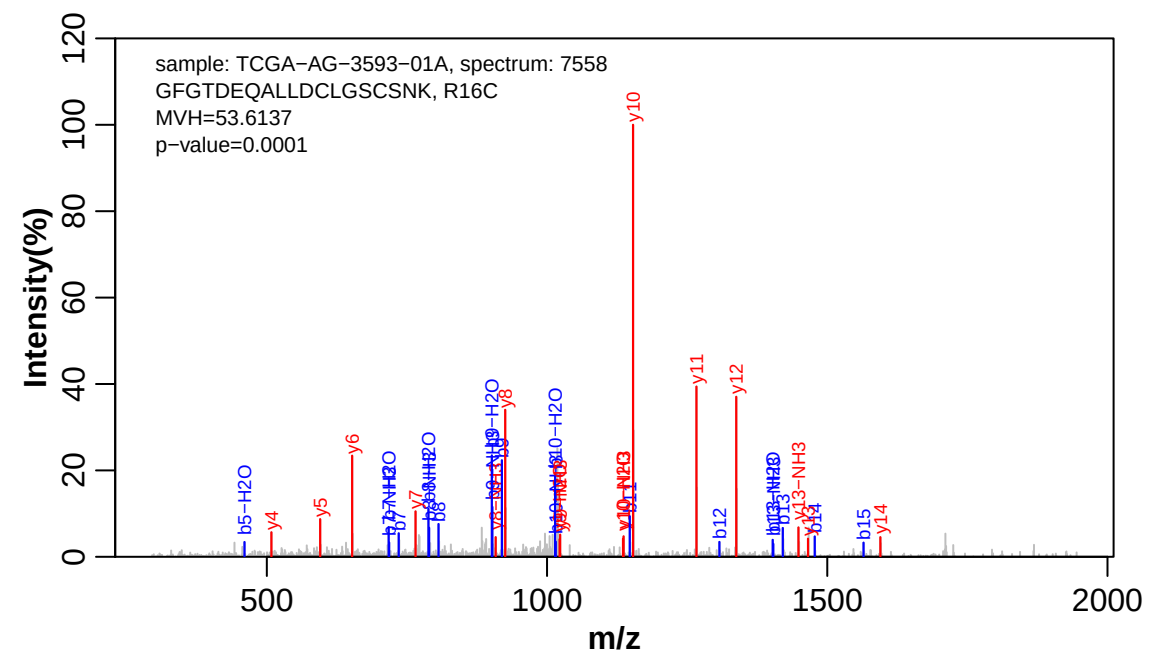

sample: TCGA−AG−3593−01A, spectrum: 7497
FFGSLPDSWAR, S11R
MVH=37.1168
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
y4
b2
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6−NH3

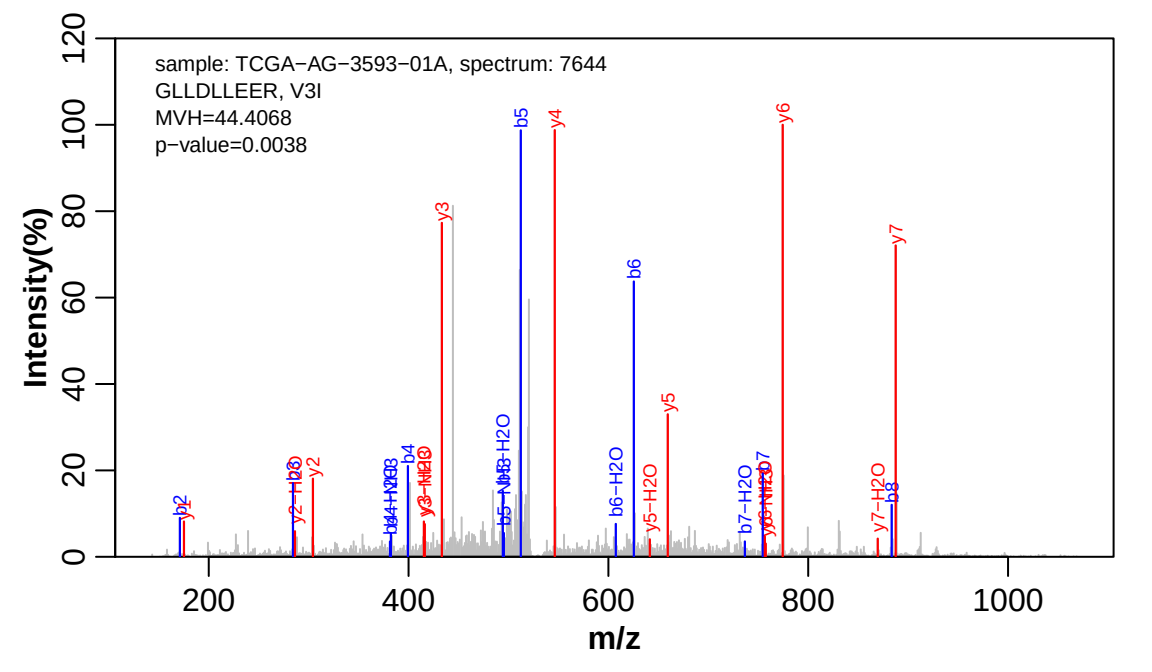

sample: TCGA−AG−3593−01A, spectrum: 8653
FGQDLLSPLLSVR, K13R
MVH=50.4397
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6−NH3
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

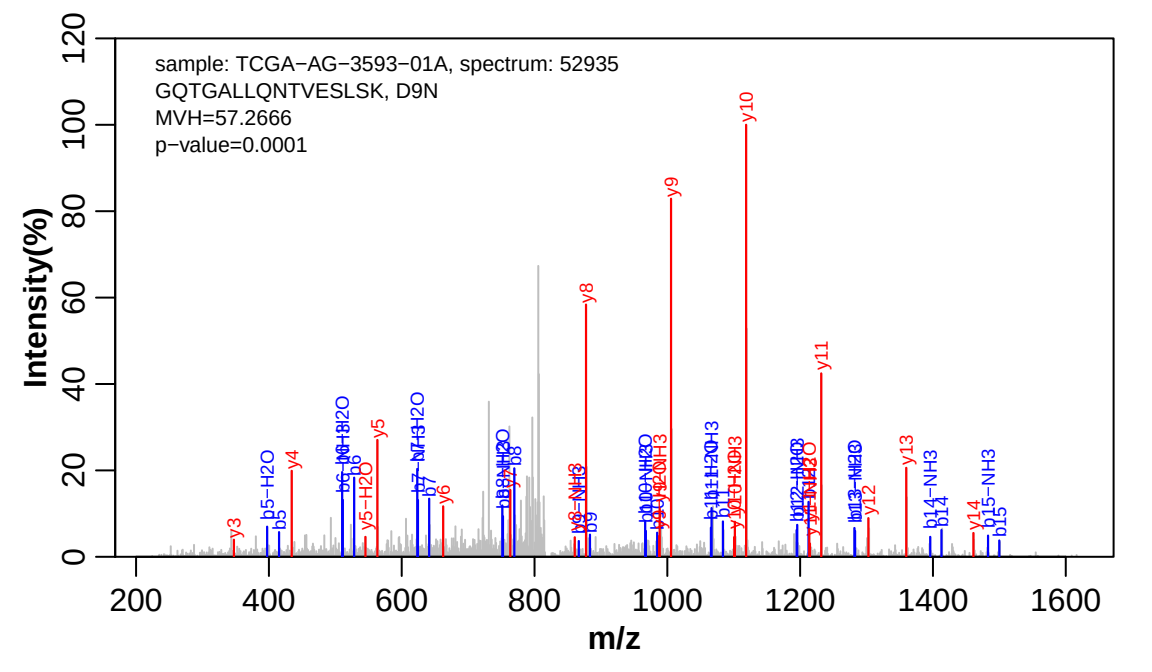

sample: TCGA−AG−3593−01A, spectrum: 71777
FLDKLPQQTGDR, H12R
MVH=48.5933
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
y10++
y10++−H2O
b2
y7++
b7++
y8++
y9++
y8
y11++

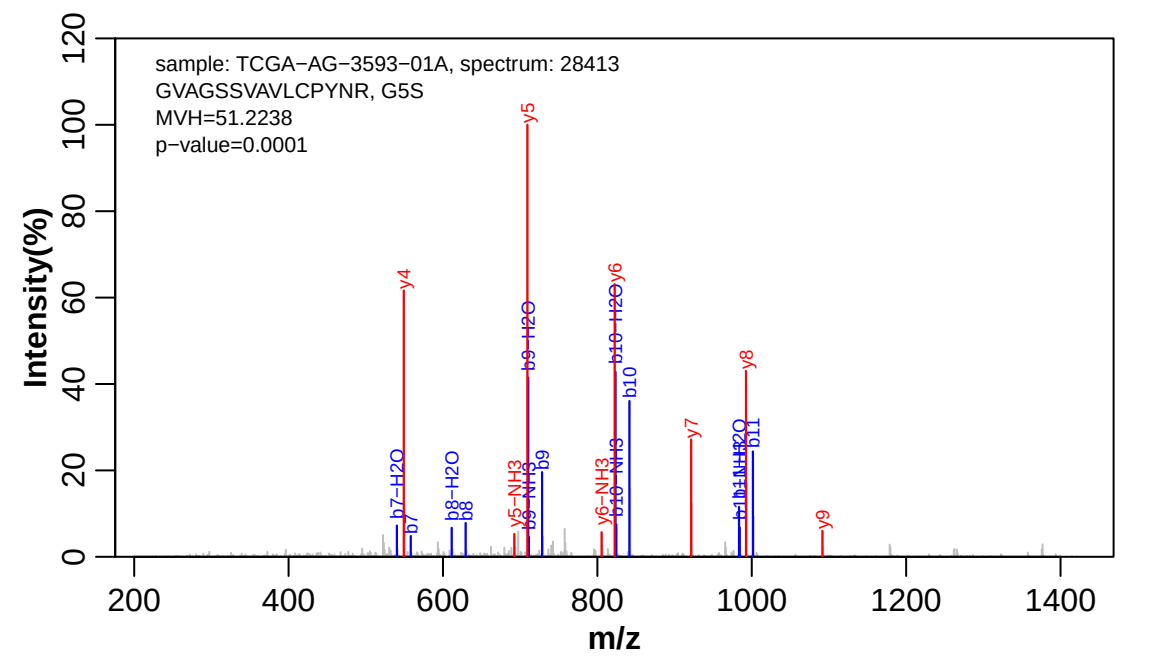

sample: TCGA−AG−3593−01A, spectrum: 126305
FTVGDHSR, I3V
MVH=33.7547
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
y5
y6

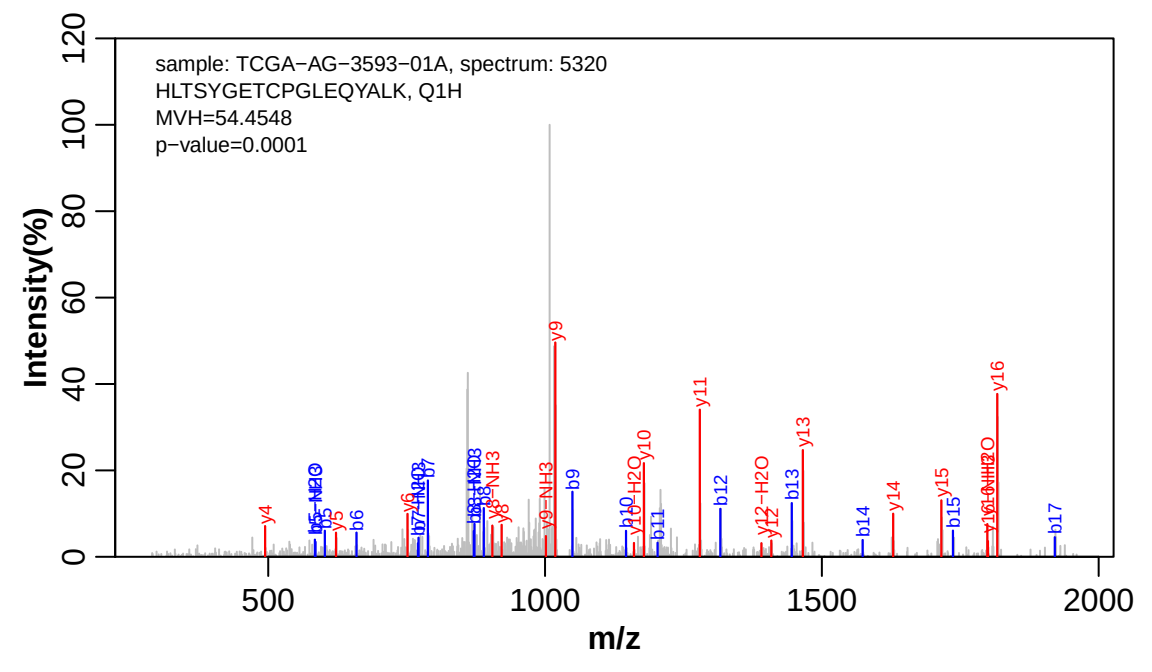

sample: TCGA−AG−3593−01A, spectrum: 75648
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=54.0567
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
y4
b5−NH3
y5
b5−H2O
y5−NH3
y6
b7−H2O
y7−NH3
y7
y8−H2O
y8
y9
y10−NH3
y10−H2O
y10
b12−NH3
y11
y12−H2O−NH3
y12
y13
y14−H2O
y14−NH3
y15
b17
b18
b18−NH3
y16
y17
y18
b20−NH3
y20
y20−NH3
b21−NH3
b22
b22−NH3
y21

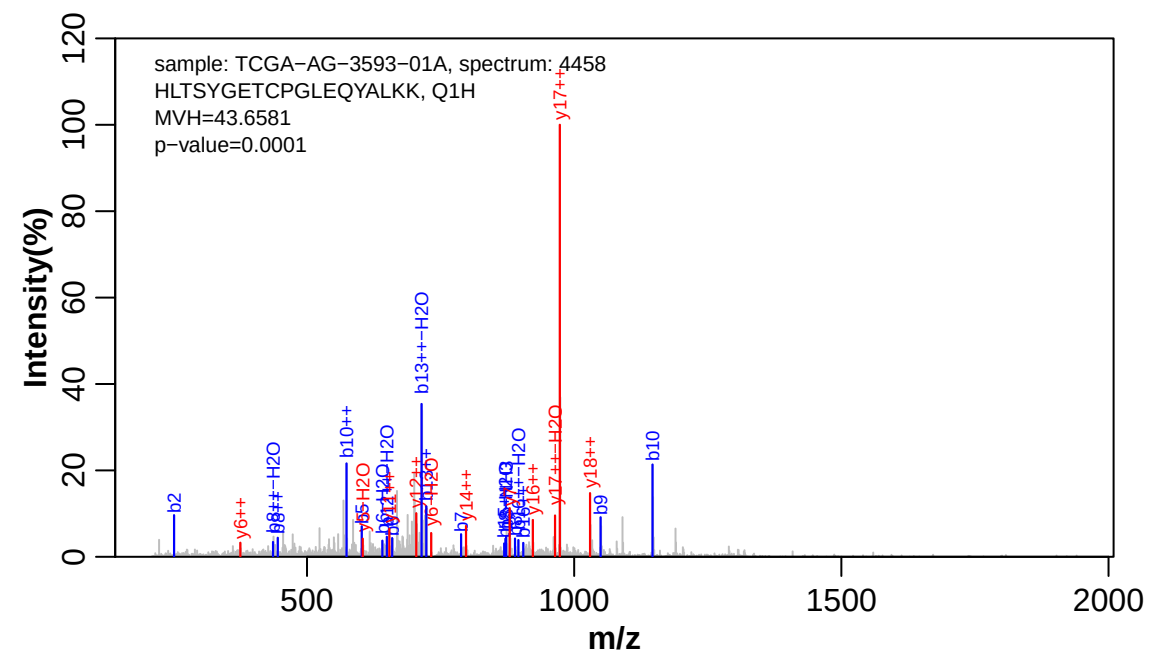

sample: TCGA−AG−3593−01A, spectrum: 7558
GFGTDEQALLDCLGSCSNK, R16C
MVH=53.6137
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y6
y8
y5
y4
b5−H2O
b12
b15
y14
y13−NH3

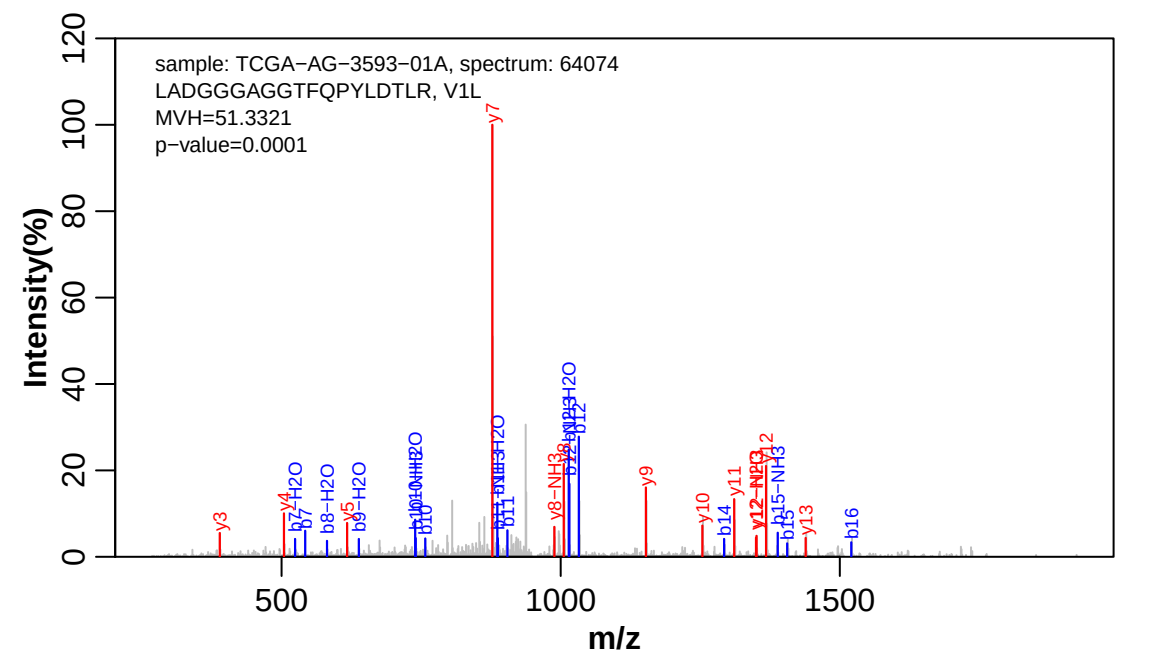

sample: TCGA−AG−3593−01A, spectrum: 7644
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2
y2−H2O
b4
b5
b5−H2O
y3
y4
b6
b6−H2O
y5
y5−H2O
b7−H2O
y6
y7
y7−H2O
b8

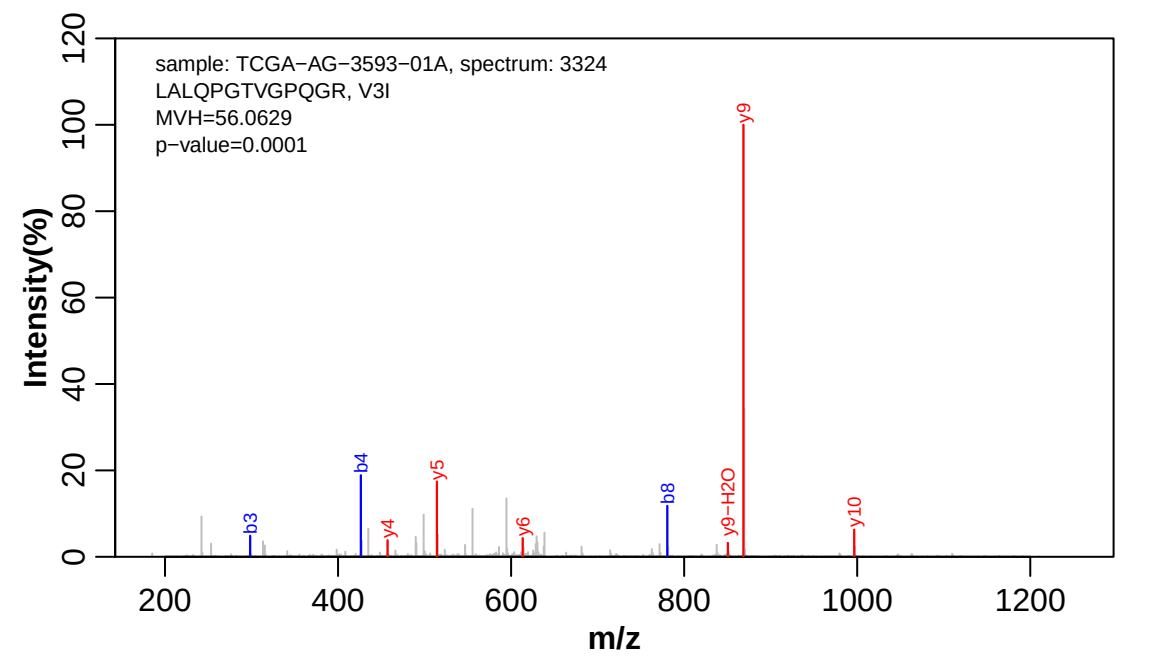

sample: TCGA−AG−3593−01A, spectrum: 52935
GQTGALLQNTVESLSK, D9N
MVH=57.2666
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y5
y4
y3
y6
y14
b5−H2O
b5
b6
b14−NH3
b15−NH3
b15

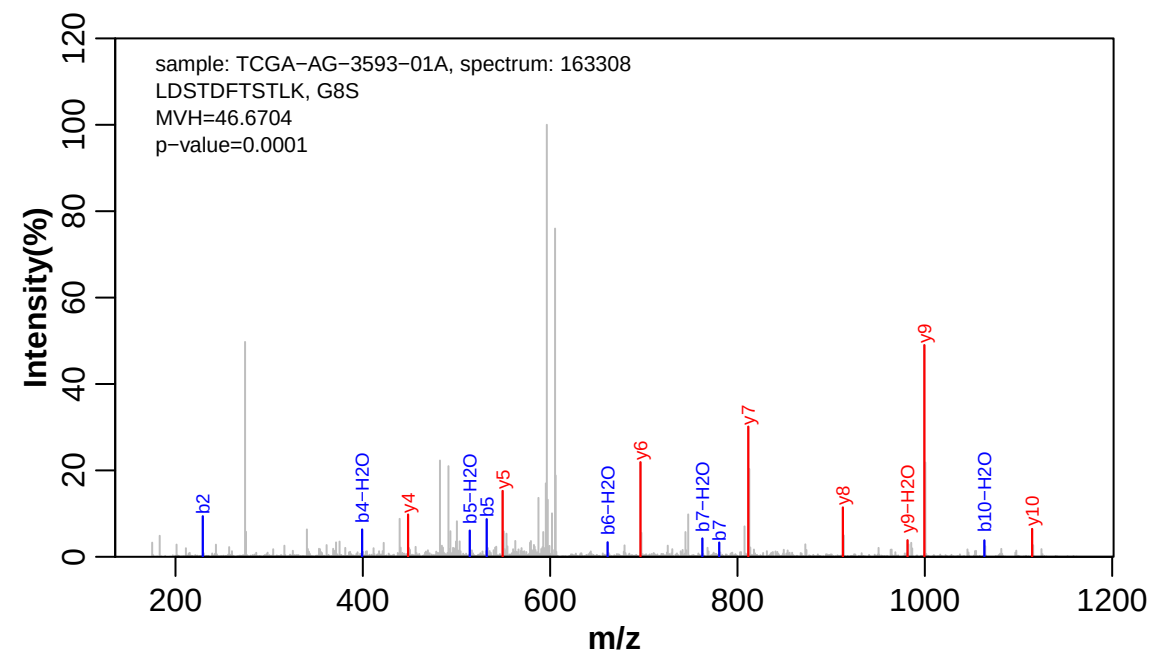

sample: TCGA−AG−3593−01A, spectrum: 28413
GVAGSSVAVLCPYNR, G5S
MVH=51.2238
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
y6
b9−H2O
b10−H2O
y8
b10
y7
b11
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y9
b7
b8

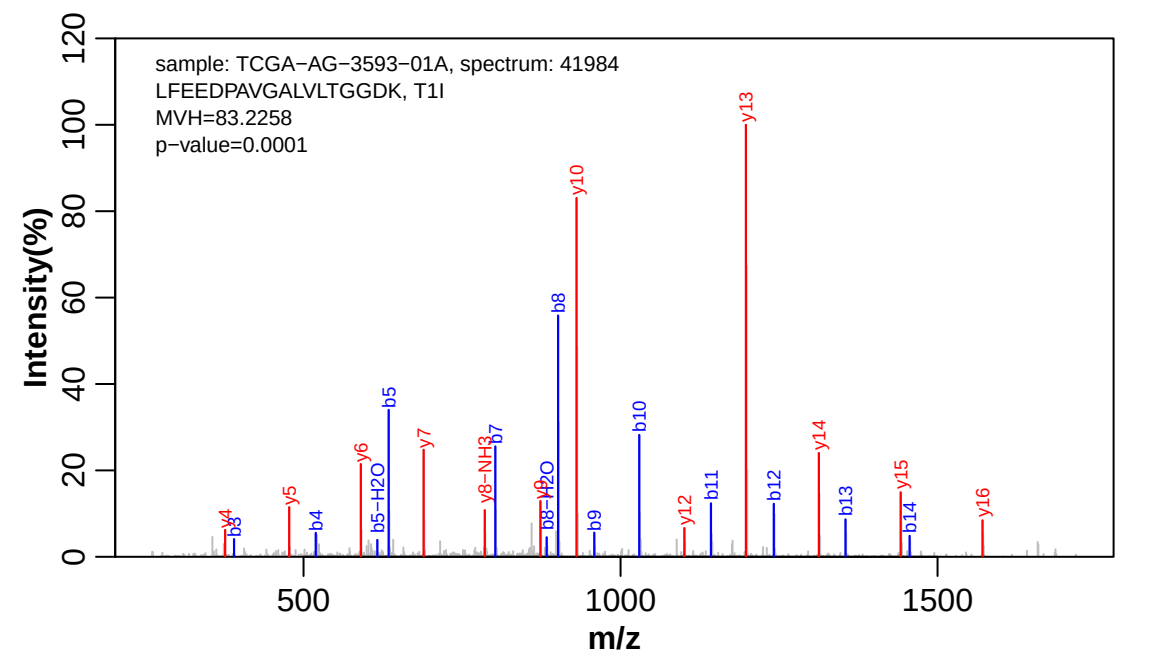

sample: TCGA−AG−3593−01A, spectrum: 5320
HLTSYGETCPGLEQYALK, Q1H
MVH=54.4548
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5
y5
b6
y6
b7
b8
y8
y9−NH3
y9
b9
y10
y11
b12
y12−H2O
y13
b13
b14
y14
y15
b15
y16
b17

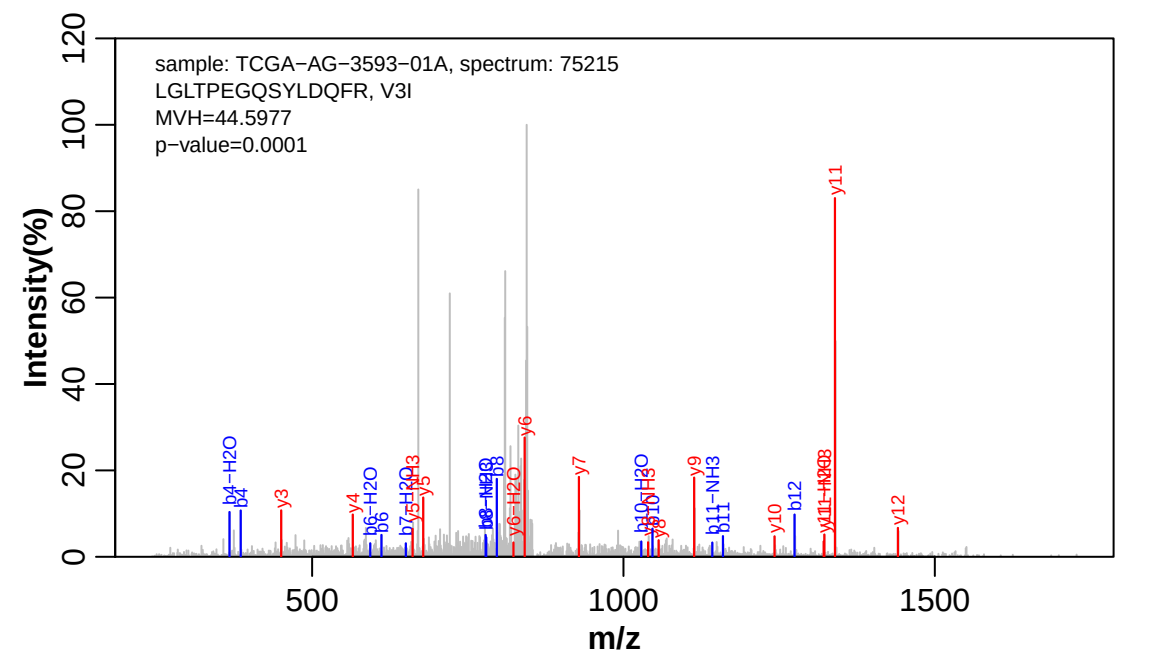

sample: TCGA−AG−3593−01A, spectrum: 4458
HLTSYGETCPGLEQYALKK, Q1H
MVH=43.6581
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
y6++
b8++−H2O
b10++
y5 H2O
b13++−H2O
y12++
y6 H2O
b7
y14++
y16++
y17++−H2O
y18++
b9
b10
y17++

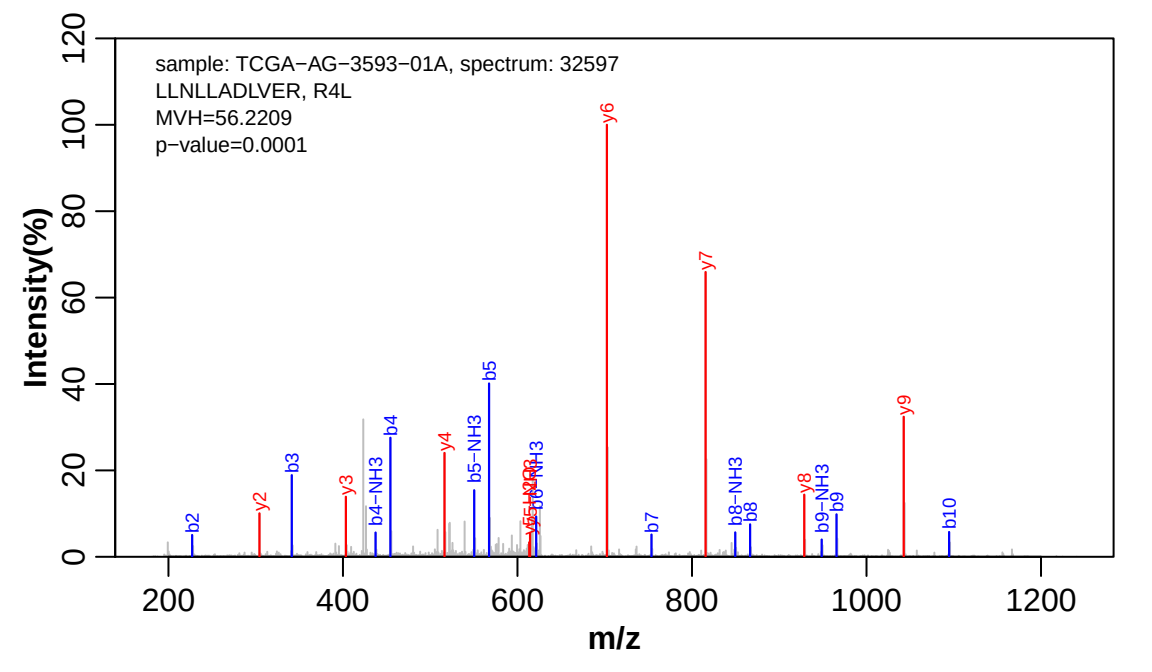

sample: TCGA−AG−3593−01A, spectrum: 64074
LADGGGAGGTFQPYLDTLR, V1L
MVH=51.3321
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7
b7−H2O
b8−H2O
y5
b9−H2O
b10
b10−NH3
b10−H2O
b11
b11−NH3
b11−H2O
y8−NH3
b12
b12−NH3
b12−H2O
y9
y10
b14
y11
y12
y12−NH3
b15
b15−NH3
y13
b16

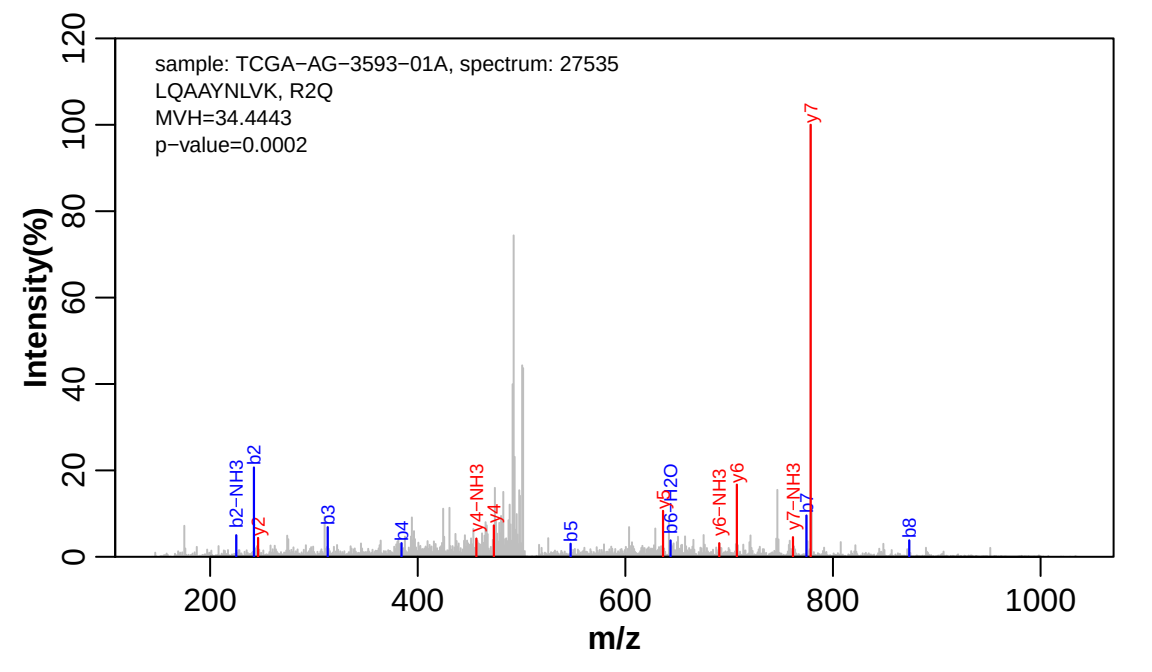

sample: TCGA−AG−3593−01A, spectrum: 3324
LALQPGTVGPQGR, V3I
MVH=56.0629
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b4
y4
y5
y6
b8
y9−H2O
y9
y10

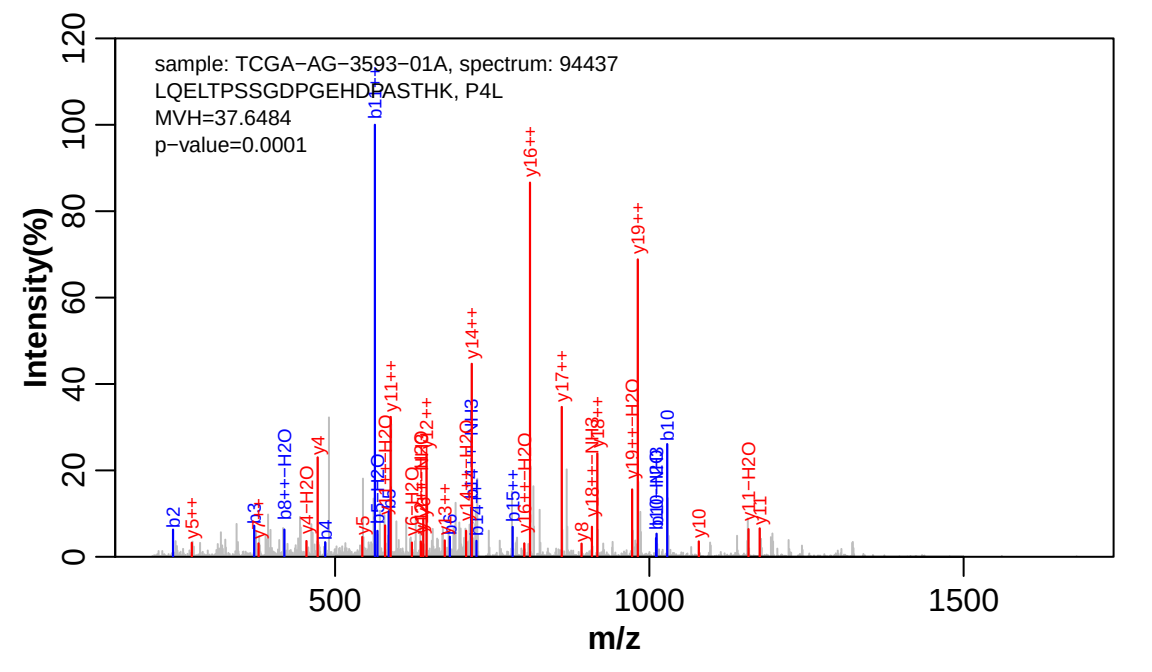

sample: TCGA−AG−3593−01A, spectrum: 163308
LDSTDFTSTLK, G8S
MVH=46.6704
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
y10

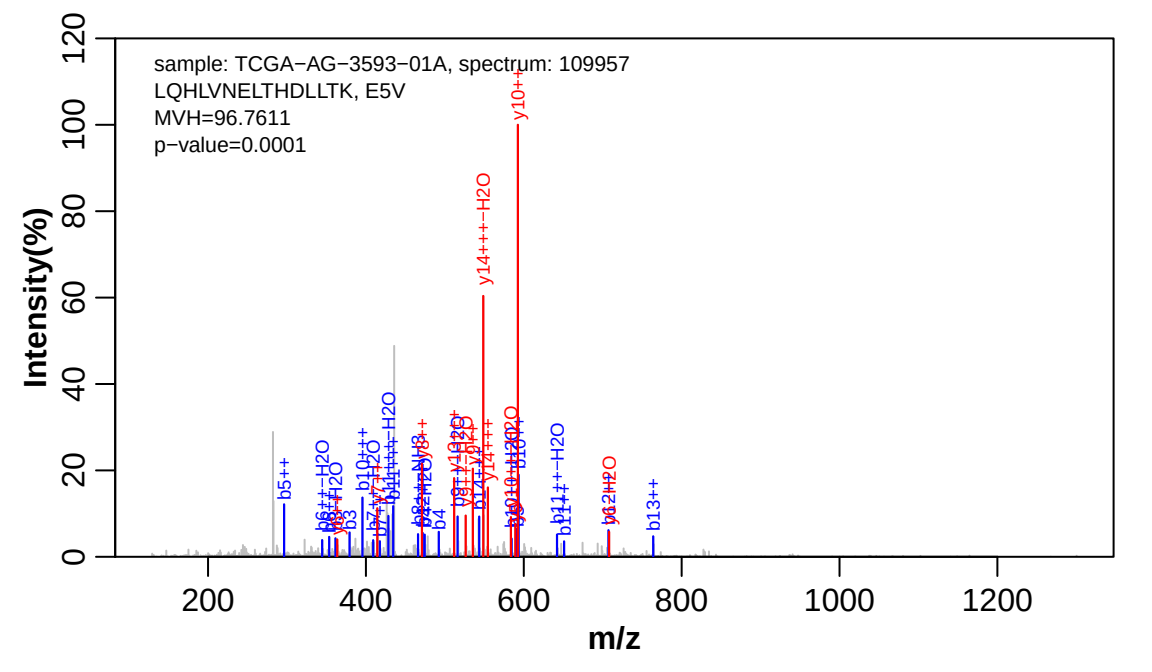

sample: TCGA−AG−3593−01A, spectrum: 41984
LFEEDPAVGALVLTGGDK, T1I
MVH=83.2258
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y6
y7
b7
y8−NH3
b10
y14
y5
b5−H2O
b8−H2O
b11
b12
y15
y12
b13
b4
b9
b14
y16
y4
b3

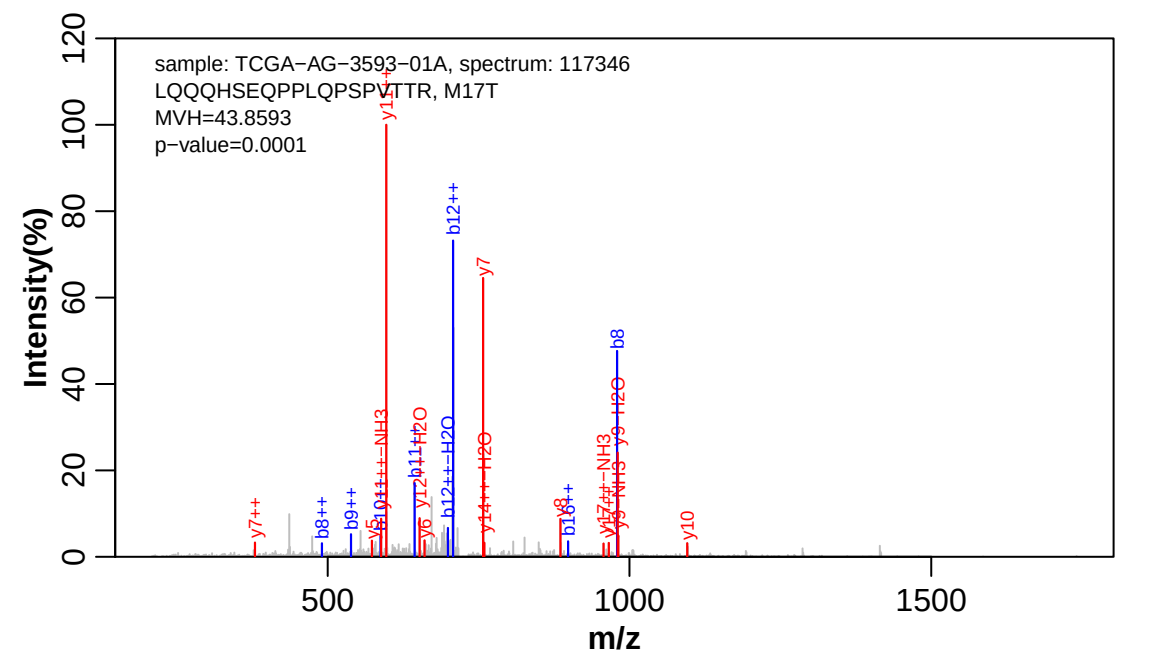

sample: TCGA−AG−3593−01A, spectrum: 75215
LGLTPEGQSYLDQFR, V3I
MVH=44.5977
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
b6
b6−H2O
b7−H2O
y5
y6
y6−H2O
y7
b10−H2O
b10−NH3
y8
y9
b11−NH3
b11
y10
b12
y11
y11−H2O
y12

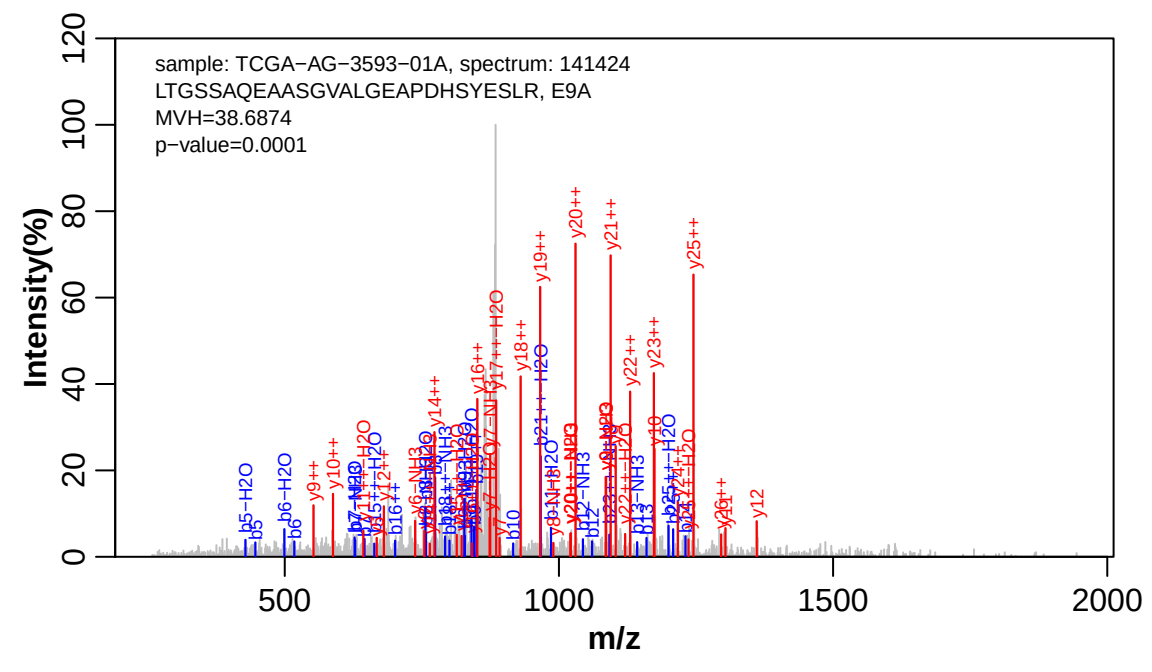

sample: TCGA−AG−3593−01A, spectrum: 32597
LLNLLADLVER, R4L
MVH=56.2209
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

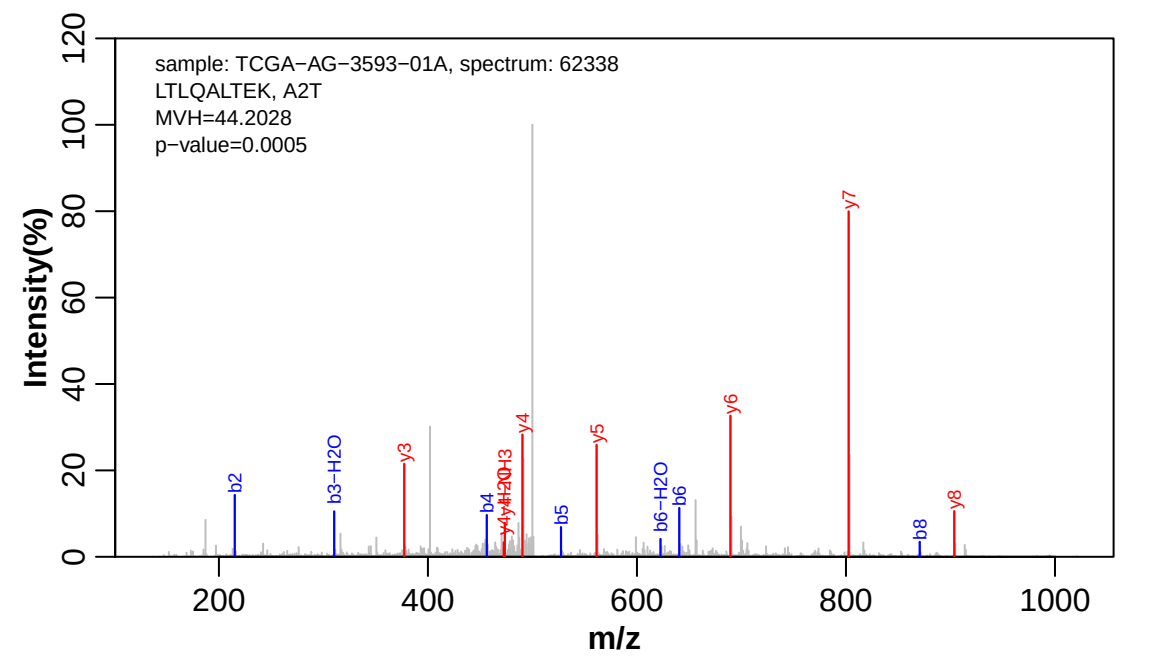

sample: TCGA−AG−3593−01A, spectrum: 27535
LQAAYNLVK, R2Q
MVH=34.4443
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−NH3
b2
y2
b3
b4
y4−NH3
y4
b5
y5
b6−H2O
y6−NH3
y6
y7−NH3
b7
y7
b8

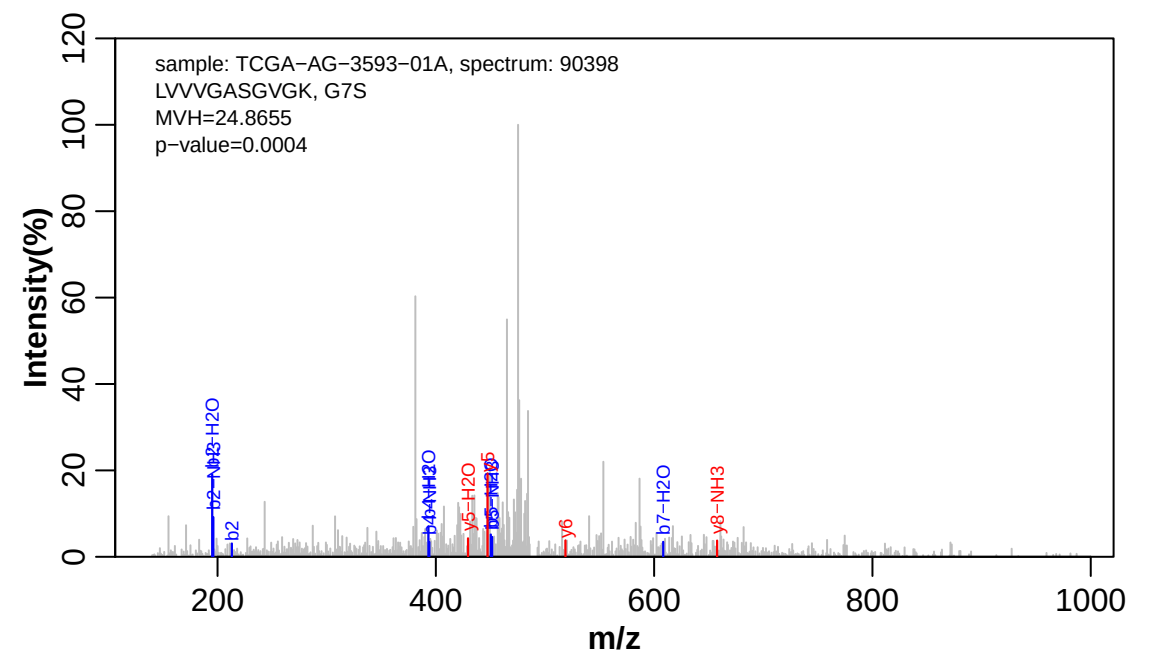

sample: TCGA−AG−3593−01A, spectrum: 94437
LQELTPSSGDPGEHDPASTHK, P4L
MVH=37.6484
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y16++
y19++
y14++
y17++
y11++
b2
y5++
b8++−H2O
y4−H2O
y4
b4
y5
y11+++−H2O
y19+++−H2O
b10
y10
y11−H2O
y11
b15++
y16+++−H2O
y8
b10−H2O

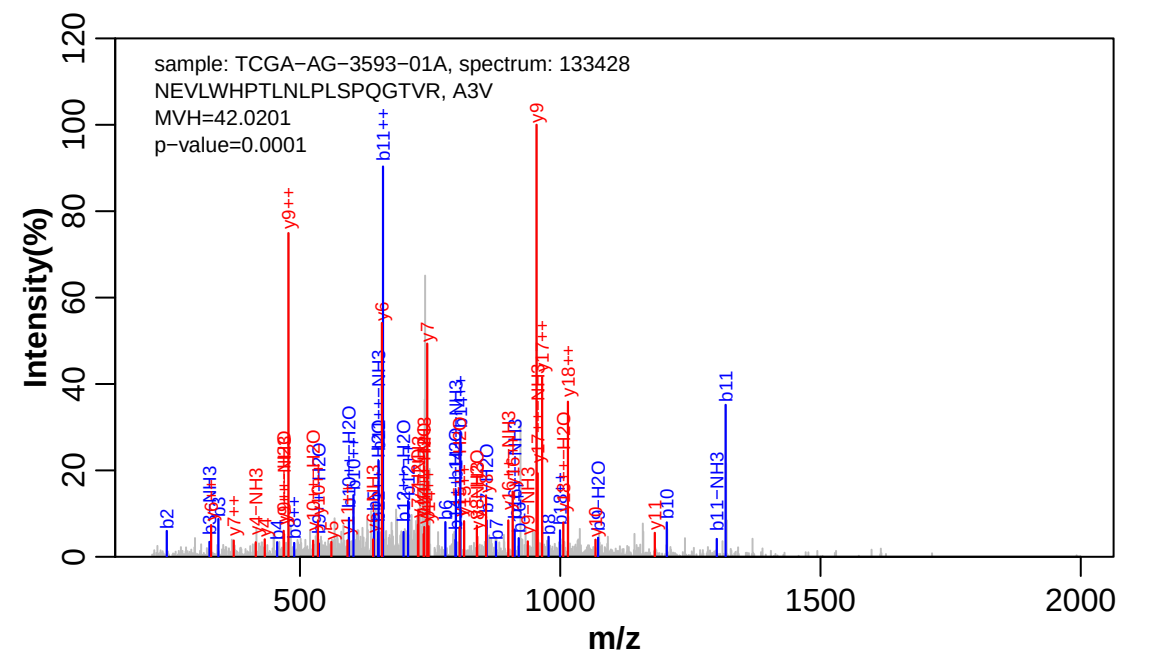

sample: TCGA−AG−3593−01A, spectrum: 109957
LQHLVNELTHDLLTK, E5V
MVH=96.7611
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y10++
y14+++−H2O
b5++
b13++

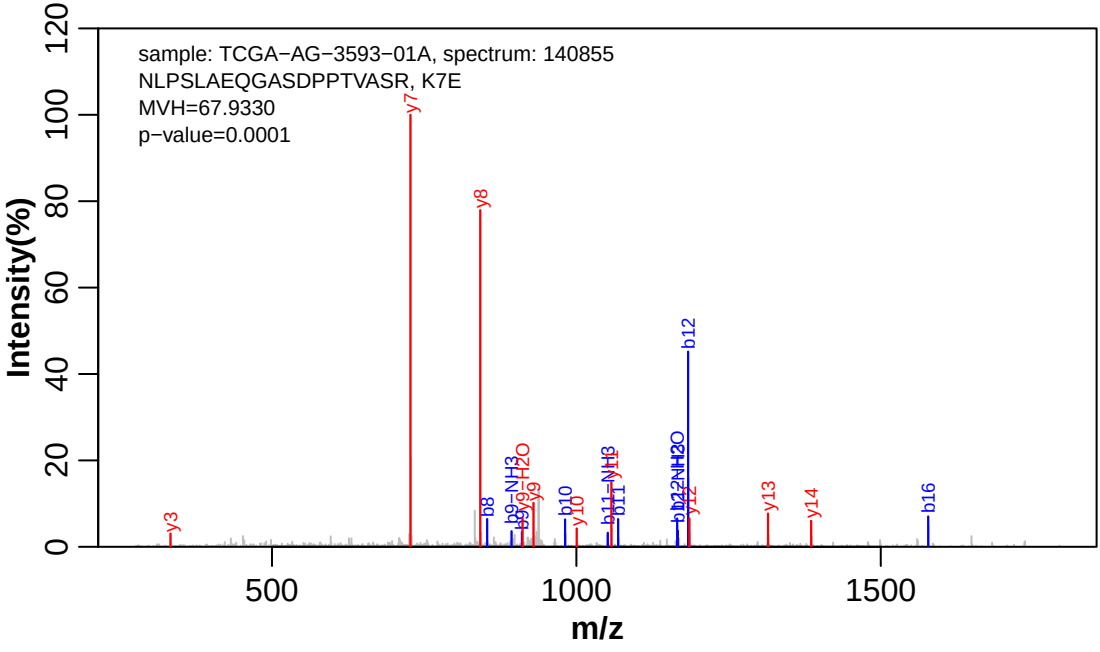

sample: TCGA−AG−3593−01A, spectrum: 117346
LQQQHSEQPPLQPSPVTTR, M17T
MVH=43.8593
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7
b8
y7++
b8++
b9++
y5
b11++−NH3
y6
y12
b11++H2O
b12++−H2O
y14++−H2O
y8
b16++
y17++−NH3
y9−NH3
y9−H2O
y10

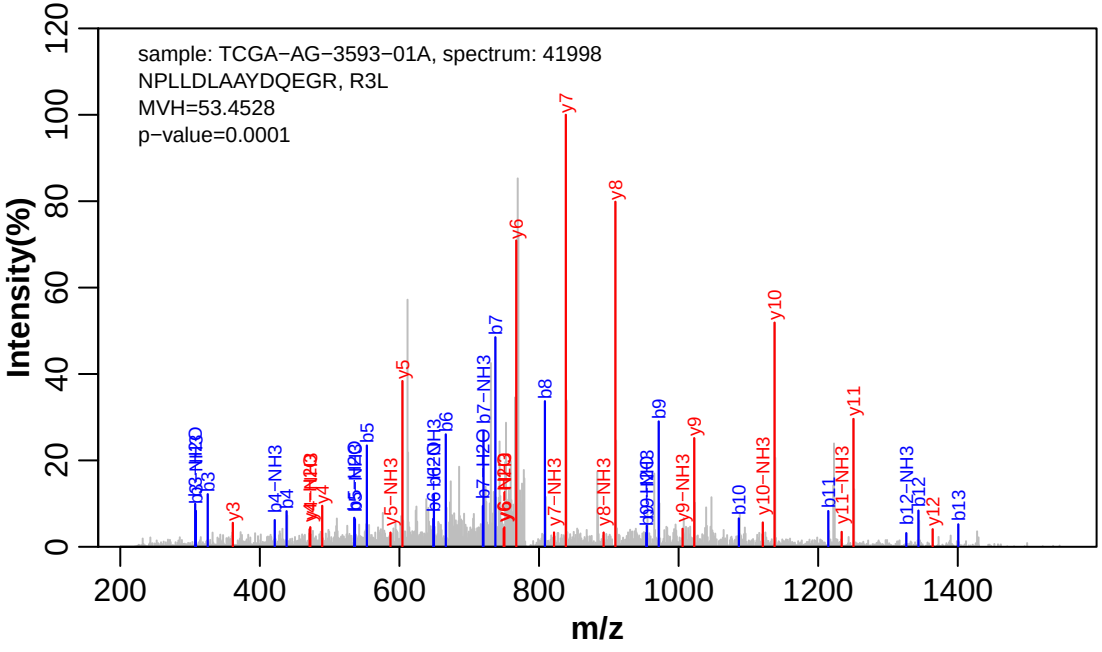

sample: TCGA−AG−3593−01A, spectrum: 141424
LTGSSAQEAASGVALGEAPDHSYESLR, E9A
MVH=38.6874
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5−H2O
b6−H2O
y9++
y10++
y12++
b16++
y16++
y17++−H2O
y18++
y19++
y20++
y21++
y22++
y23++
y25++
b21++−H2O
b10
y12

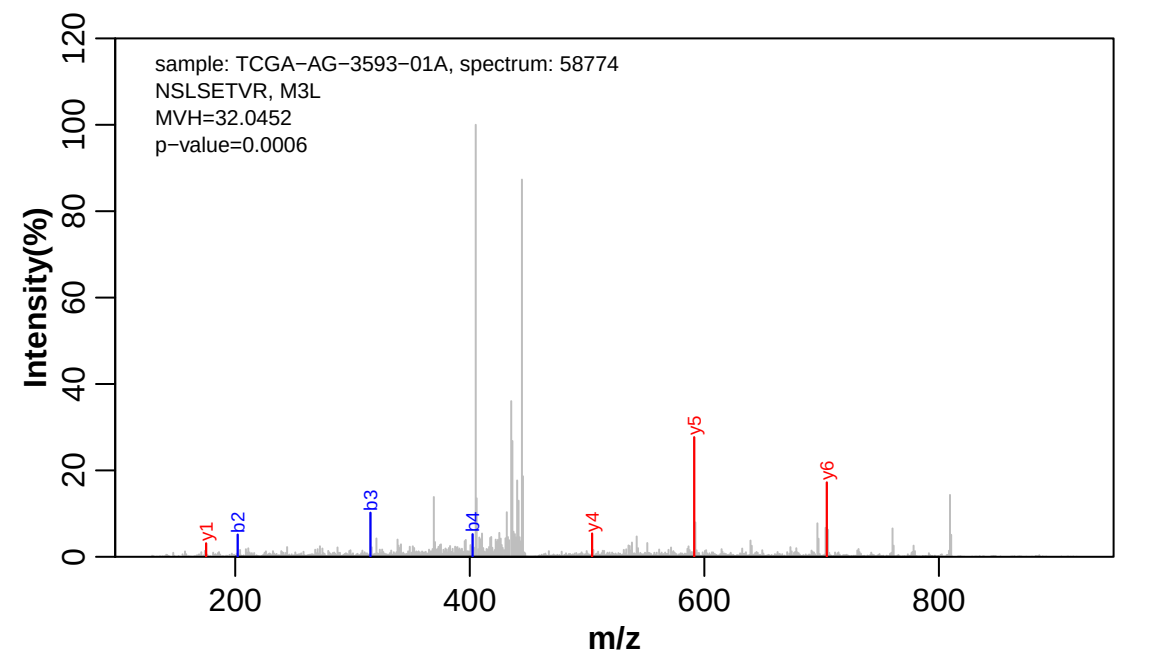

sample: TCGA−AG−3593−01A, spectrum: 62338
LTLQALTEK, A2T
MVH=44.2028
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
b8
y8

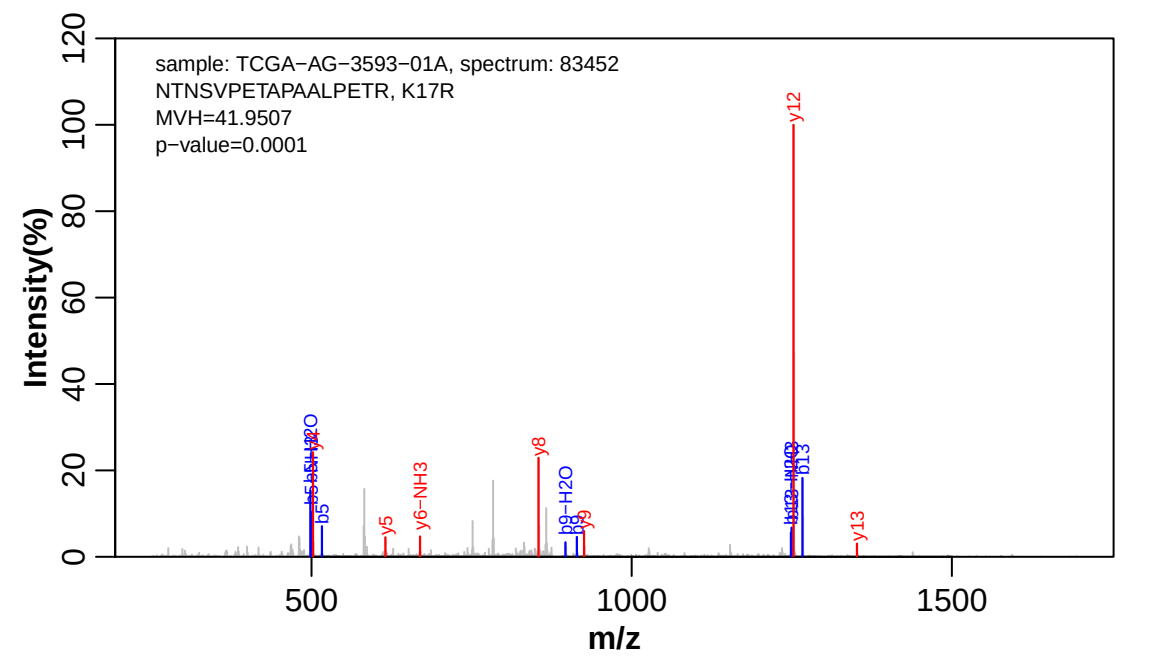

sample: TCGA−AG−3593−01A, spectrum: 90398
LVVVGASGVGK, G7S
MVH=24.8655
p−value=0.0004
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−H2O
b2
y5−H2O
y6
b7−H2O
y8−NH3

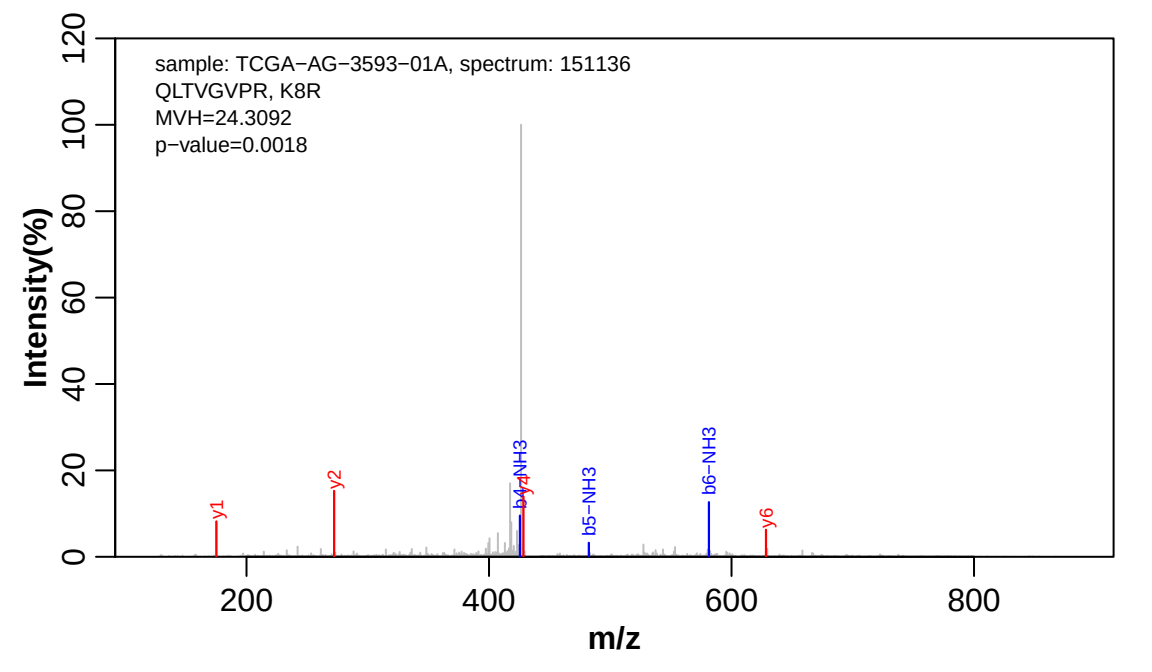

sample: TCGA−AG−3593−01A, spectrum: 133428
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=42.0201
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
b3−NH3
b3
y7++
y4−NH3
y4
b8++
y9++
y5
y6
b11++
y7
y9
y17++
y18++
b11
b11−NH3
b10
y11
y10−H2O

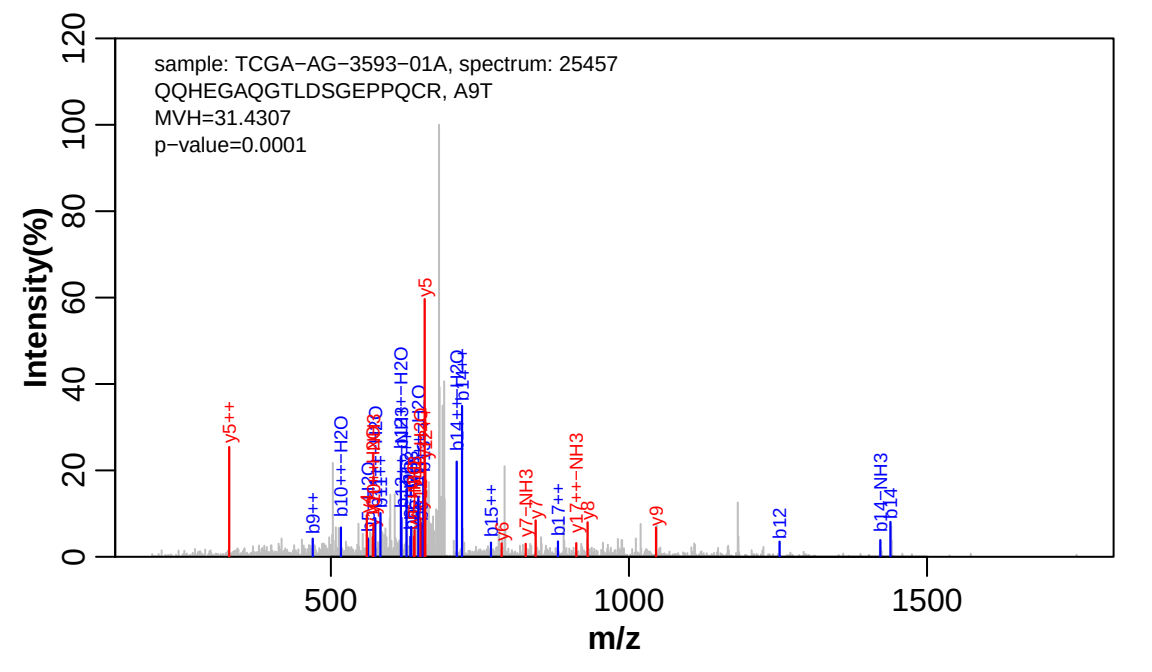

sample: TCGA−AG−3593−01A, spectrum: 140855
NLPSLAEQGASDPPTVASR, K7E
MVH=67.9330
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y8
b12
y3
b8
b9−NH3
b9−H2O
y9
b10
y10
b11−NH3
b11
y11
y12
y13
y14
b16

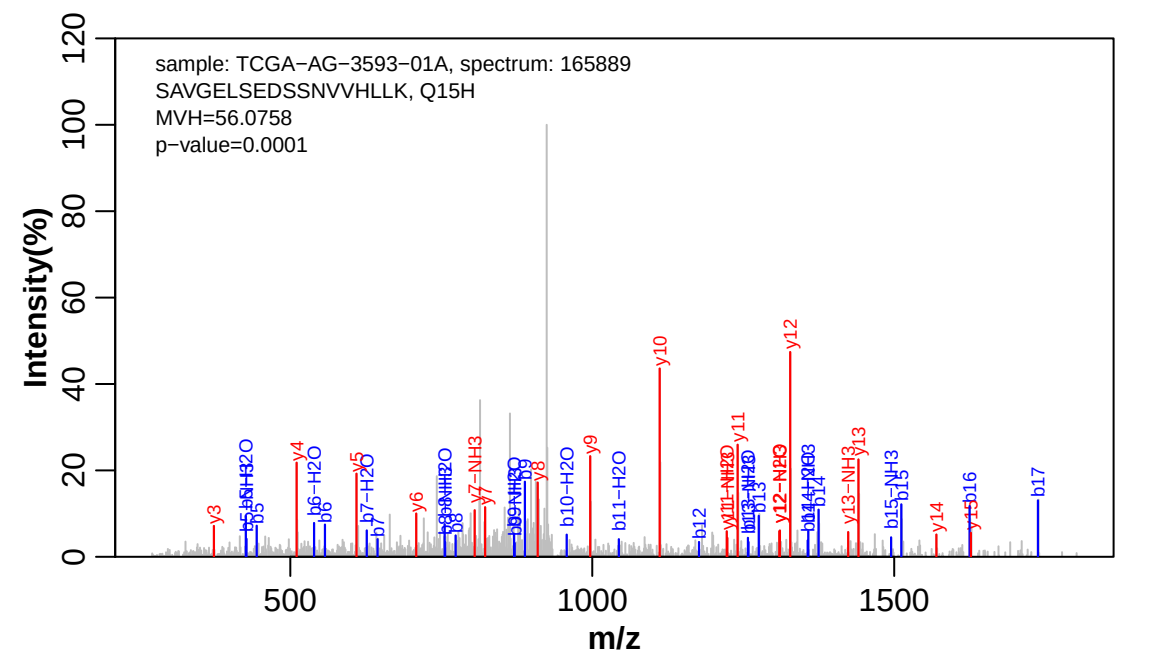

sample: TCGA−AG−3593−01A, spectrum: 41998
NPLLDLAAYDQEGR, R3L
MVH=53.4528
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y8
y6
y5
y10
y11
b7
b8
b9
y9
b5
b6
y3
b3
b4
b10
b11
b12
b13
y12
y5−NH3
y7−NH3
y8−NH3
y9−NH3
y10−NH3
y11−NH3
b4−NH3
b12−NH3

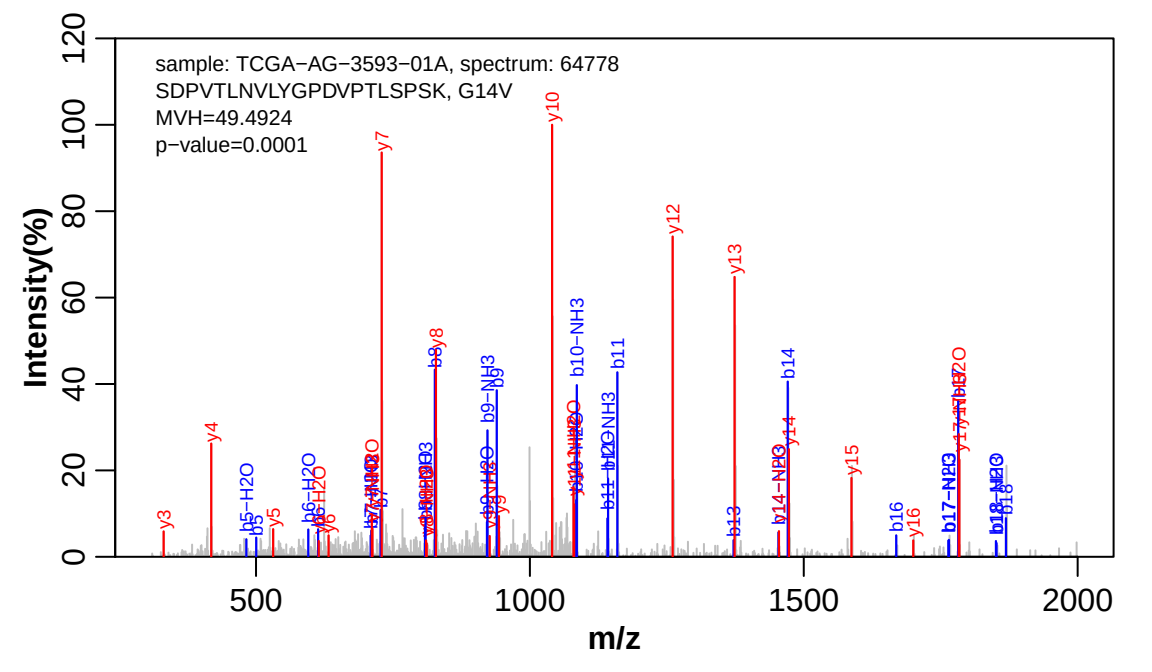

sample: TCGA−AG−3593−01A, spectrum: 58774
NSLSETVR, M3L
MVH=32.0452
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
b4
y4
y5
y6

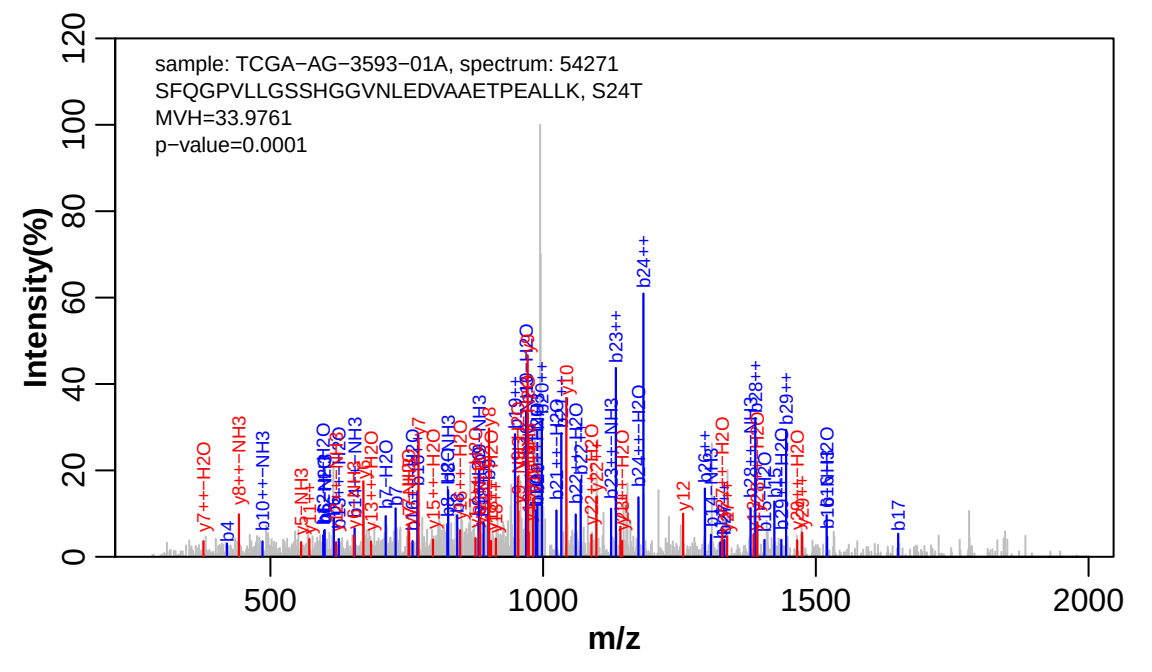

sample: TCGA−AG−3593−01A, spectrum: 83452
NTNSVPETAPAALPETR, K17R
MVH=41.9507
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y6−NH3
b5
b9−H2O
b9
b13
y13

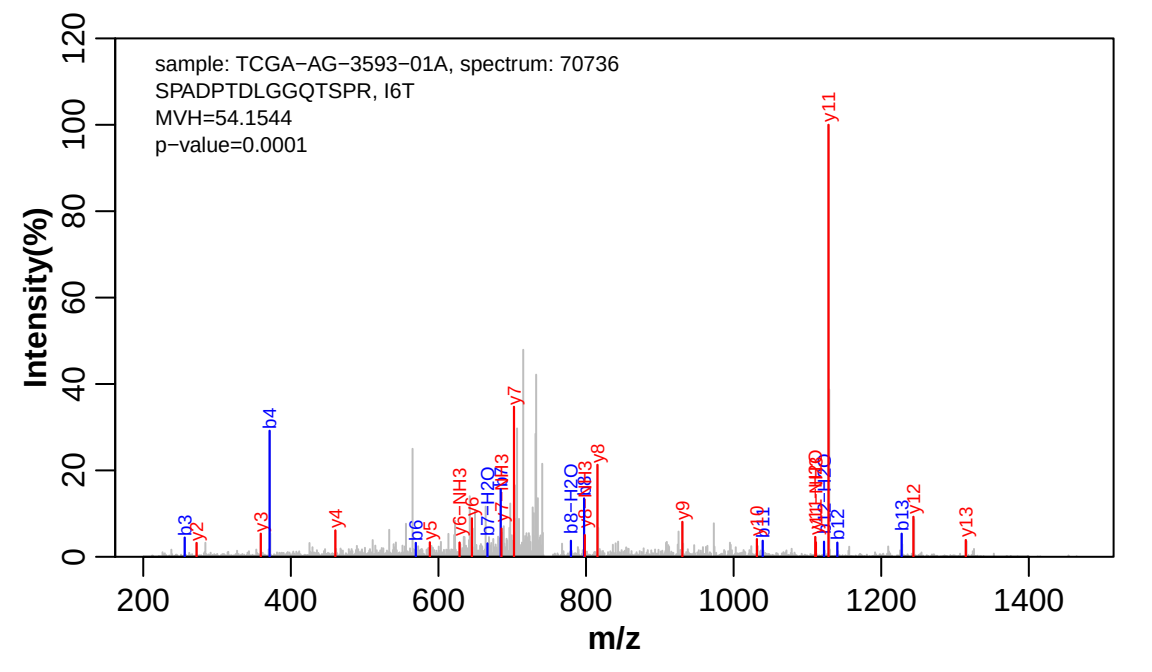

sample: TCGA−AG−3593−01A, spectrum: 151136
QLTVGVPR, K8R
MVH=24.3092
p−value=0.0018
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
b4−NH3
y4
b5−NH3
b6−NH3
y6

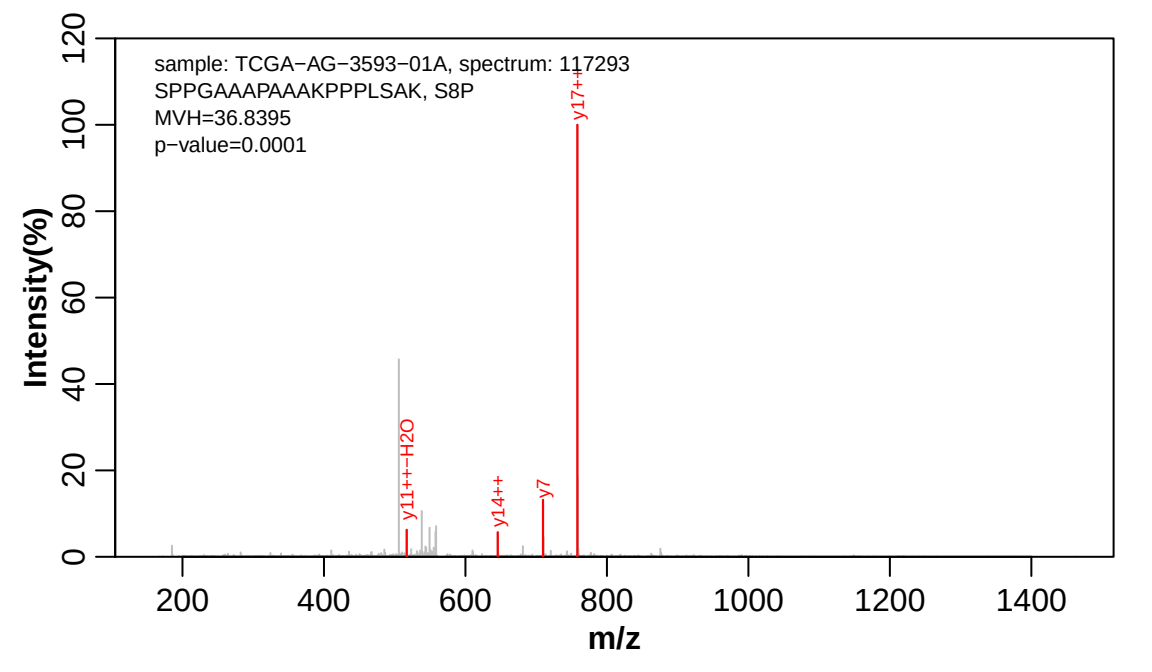

sample: TCGA−AG−3593−01A, spectrum: 25457
QQHEGAQGTLDSGEPPQCR, A9T
MVH=31.4307
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5++
y5
b9++
b10++−H2O
b14++−H2O
b15++
y6
y7−NH3
y7
b17++
y17++−NH3
y8
y9
b12
b14−NH3
b14

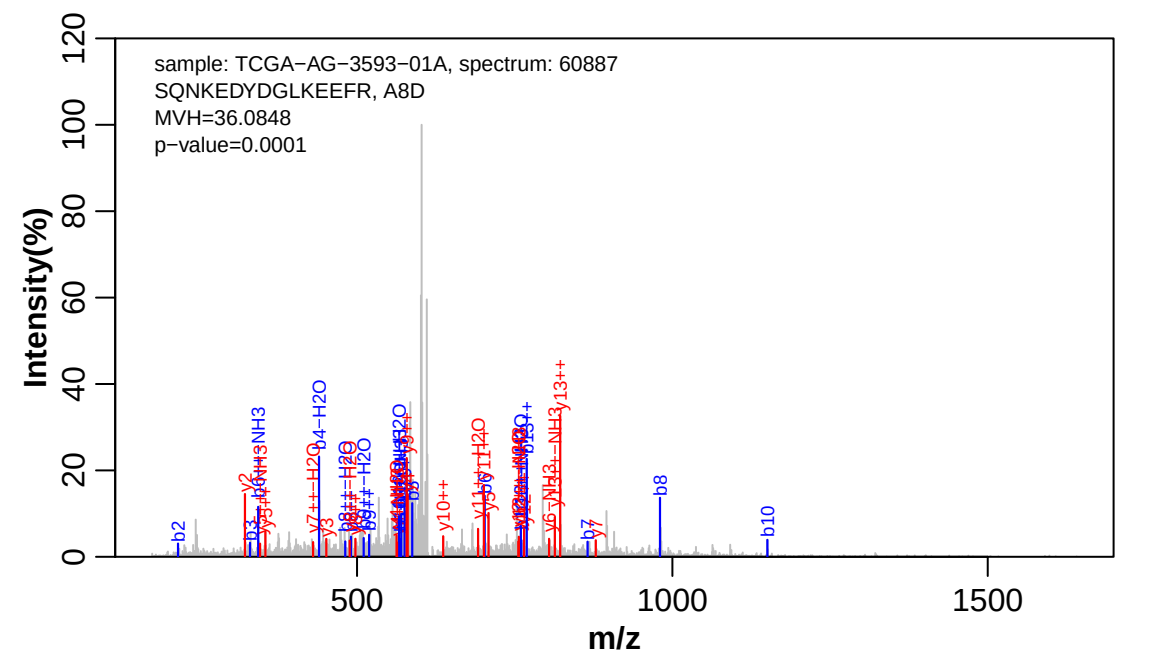

sample: TCGA−AG−3593−01A, spectrum: 165889
SAVGELSEDSSNVVHLLK, Q15H
MVH=56.0758
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
y5
y6
y7−NH3
y8
y9
b10−H2O
b11−H2O
y10
b12
y11
y12
y13
y13−NH3
b15−NH3
y14
b16
b17

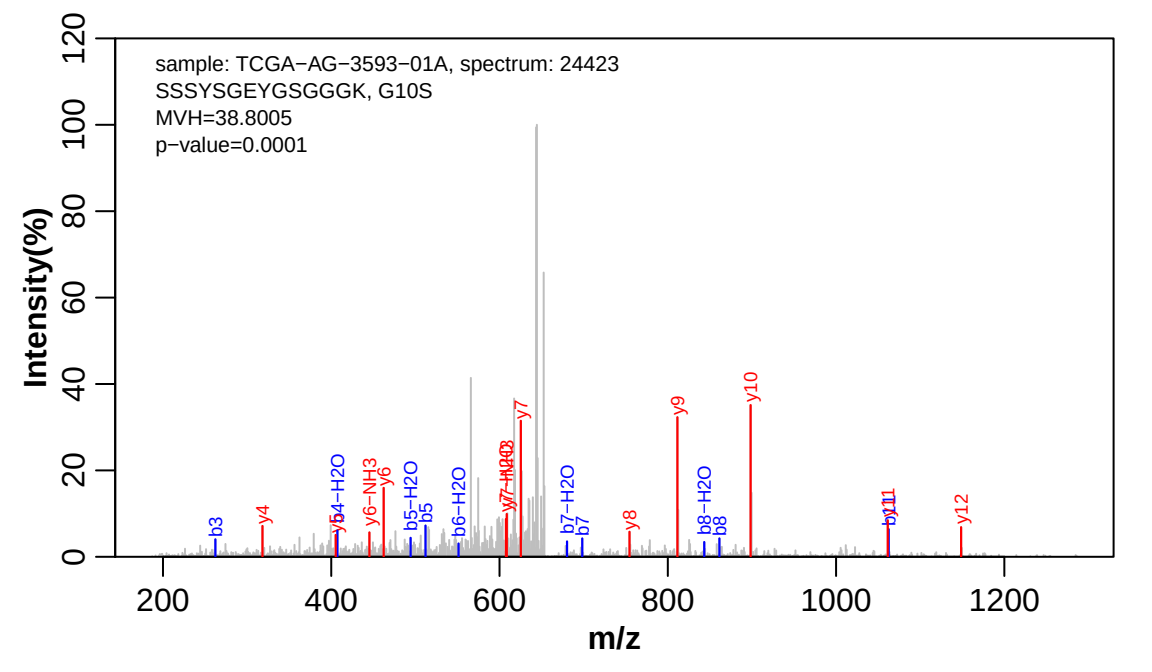

sample: TCGA−AG−3593−01A, spectrum: 64778
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=49.4924
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y8
y10
y12
y13
y14
y15
y16
b5−H2O
b6−H2O
b8
b9−NH3
b10−NH3
b11
b13
b14
b16
b17−NH3

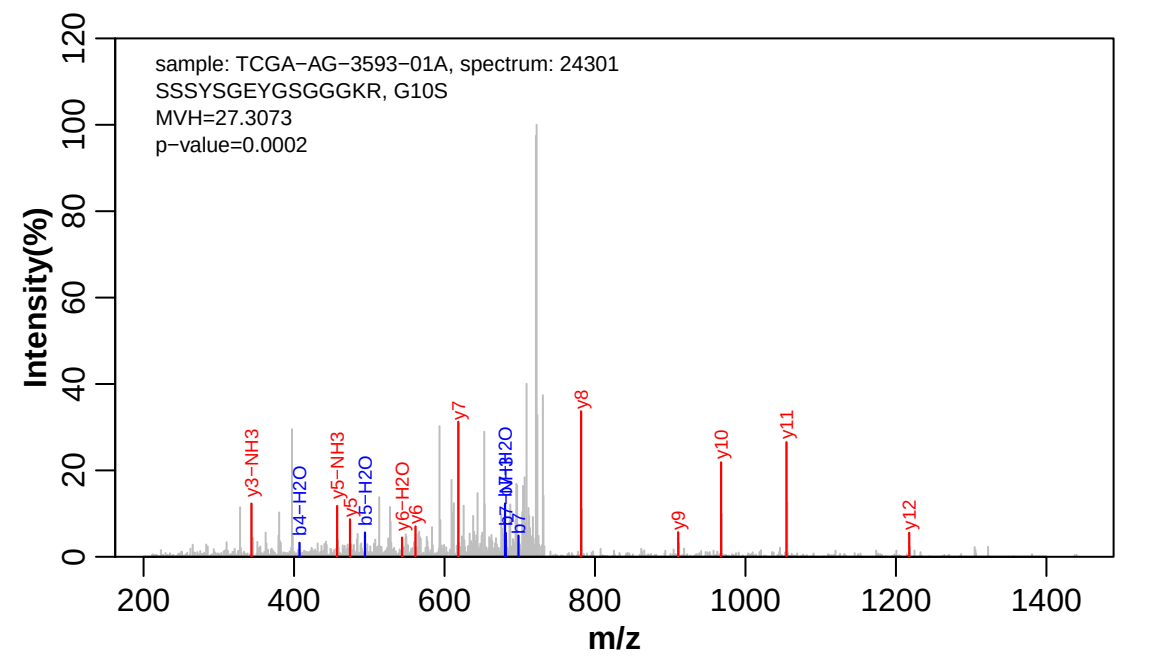

sample: TCGA−AG−3593−01A, spectrum: 54271
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=33.9761
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7++−H2O
b4
y8++−NH3
b10++−NH3
y13++−H2O
b7−H2O
y15++−H2O
b21++−H2O
y22++−H2O
b23++−NH3
y23++−H2O
b24++−H2O
b24++
y12
b17

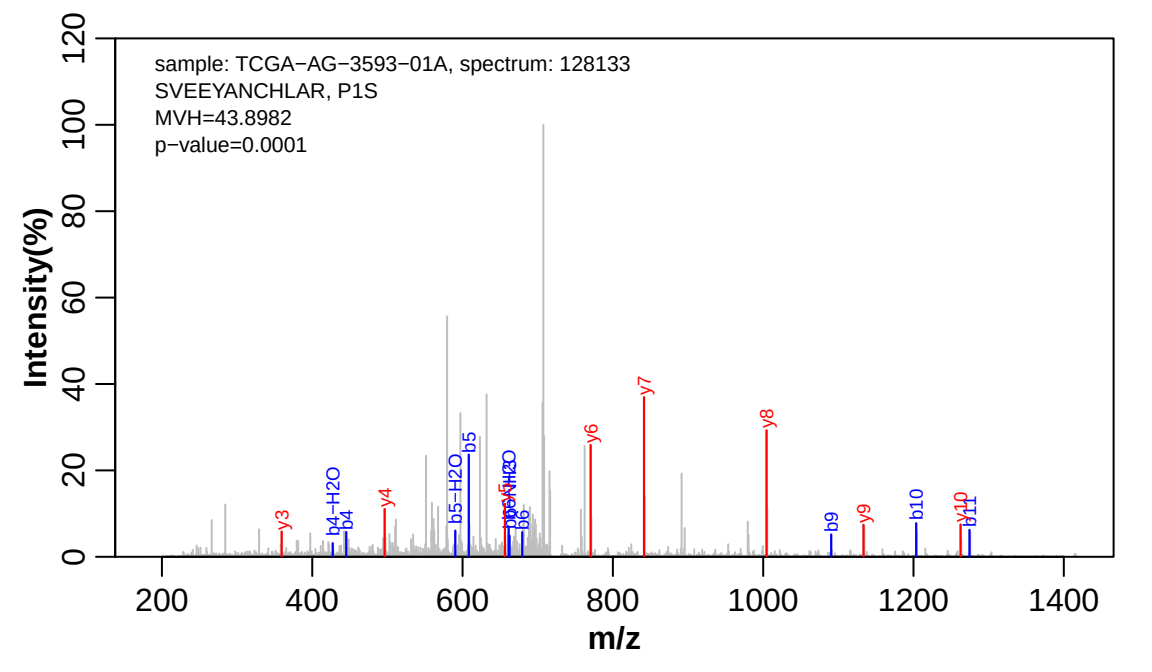

sample: TCGA−AG−3593−01A, spectrum: 70736
SPADPTDLGGQTSPR, I6T
MVH=54.1544
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6−NH3
y6
b7−H2O
b7
y7−NH3
y7
y8
b8−H2O
b8
y8−NH3
y9
b11
y10
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

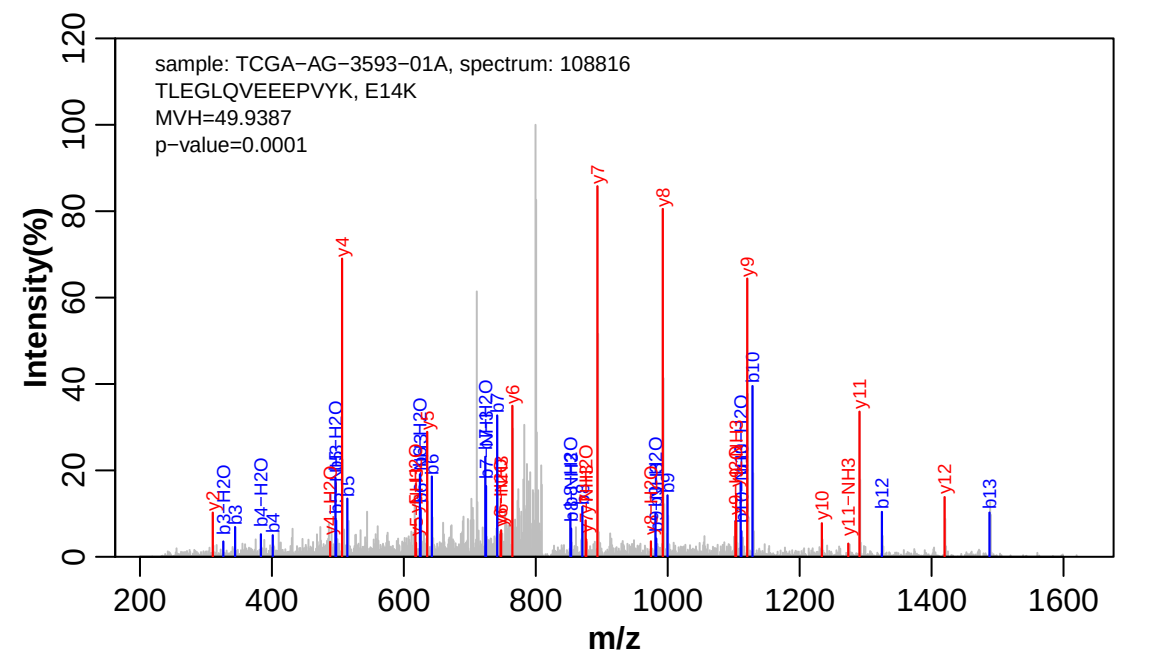

sample: TCGA−AG−3593−01A, spectrum: 117293
SPPGAAAPAAAKPPPLSAK, S8P
MVH=36.8395
p−value=0.0001
y17++
y11++−H2O
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

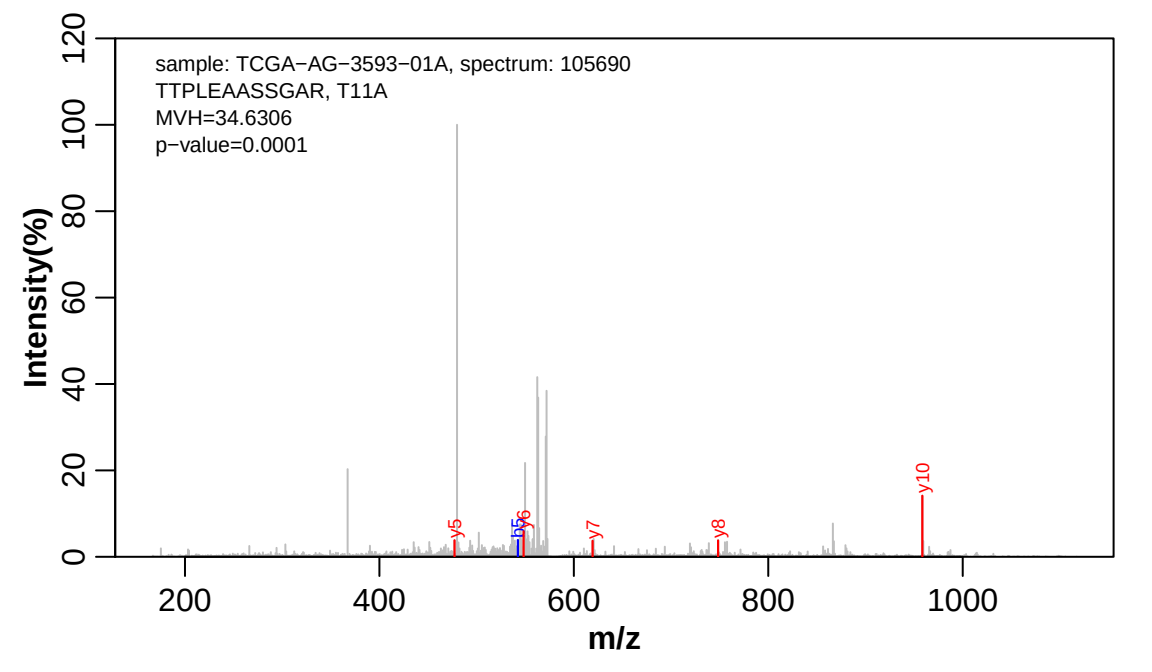

sample: TCGA−AG−3593−01A, spectrum: 60887
SQNKEDYDGLKEEFR, A8D
MVH=36.0848
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
y3
y3−H2O
y3−NH3
y4−H2O
y7++−H2O
y3++−H2O
b8++−H2O
b9++−H2O
y10++
y11++−H2O
y13++−NH3
b8
b7
b10

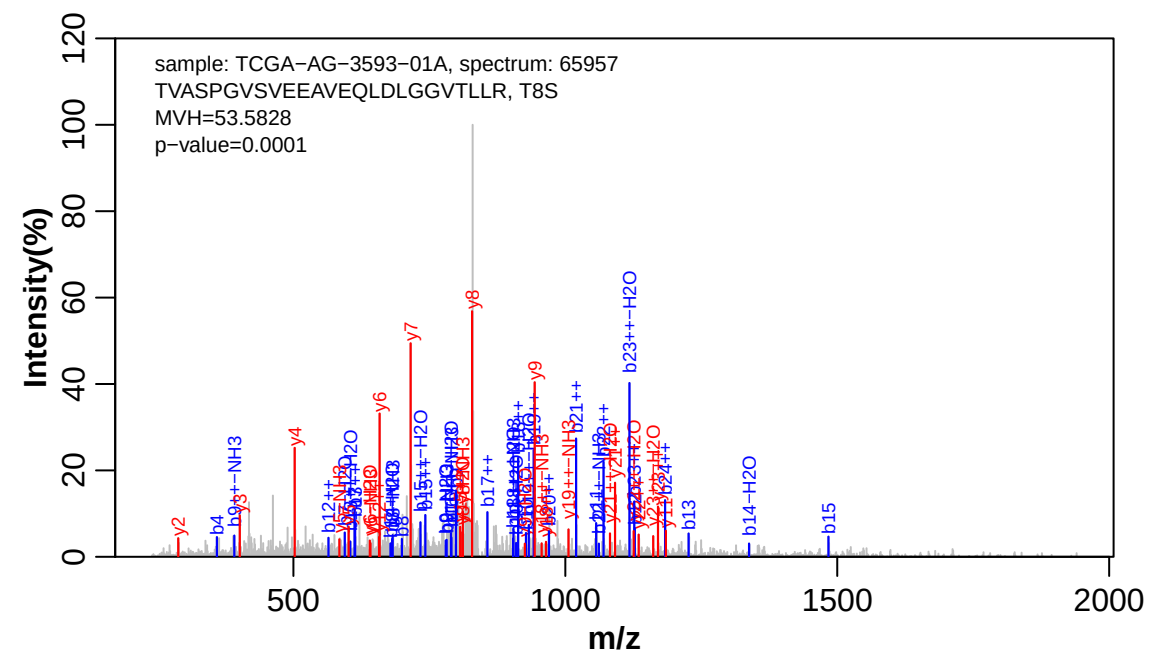

sample: TCGA−AG−3593−01A, spectrum: 24423
SSSYSGEYGSGGGK, G10S
MVH=38.8005
p−value=0.0001
Intensity(%)
m/z
b3
y4
y5−H2O
y6−NH3
y6
b5−H2O
b5
b6−H2O
y7−H2O
y7−NH3
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
by11
y12

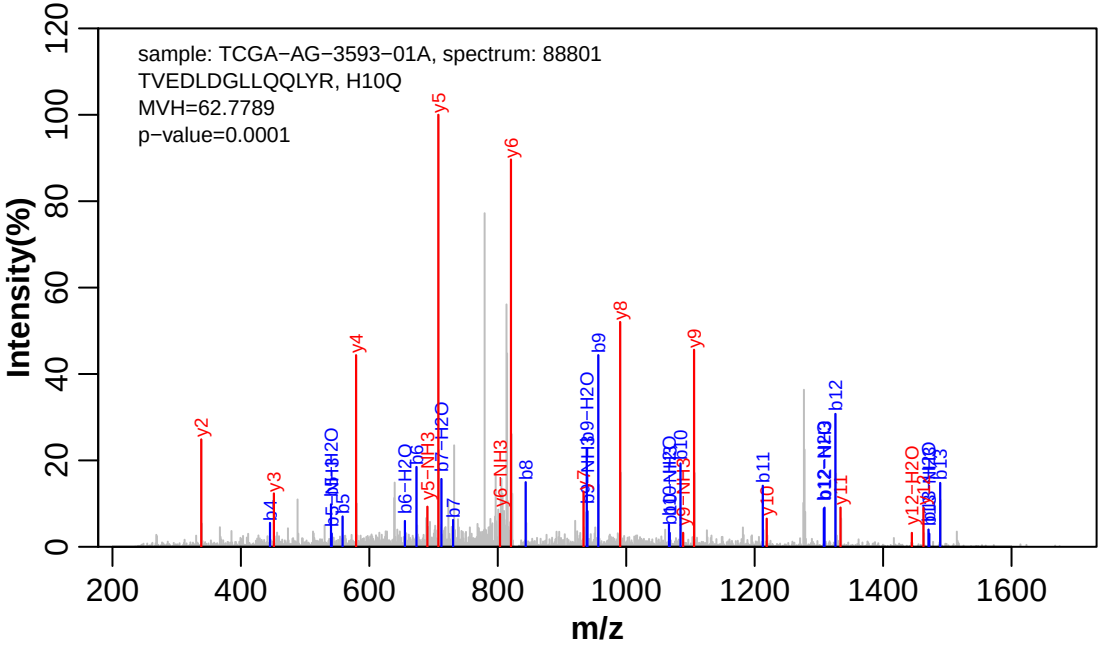

sample: TCGA−AG−3593−01A, spectrum: 24301
SSSYSGEYGSGGGKR, G10S
MVH=27.3073
p−value=0.0002
Intensity(%)
m/z
y3−NH3
b4−H2O
y5−NH3
y5
b5−H2O
y6−H2O
y6
y7
b7−NH3
b7−H2O
b7
y8
y9
y10
y11
y12

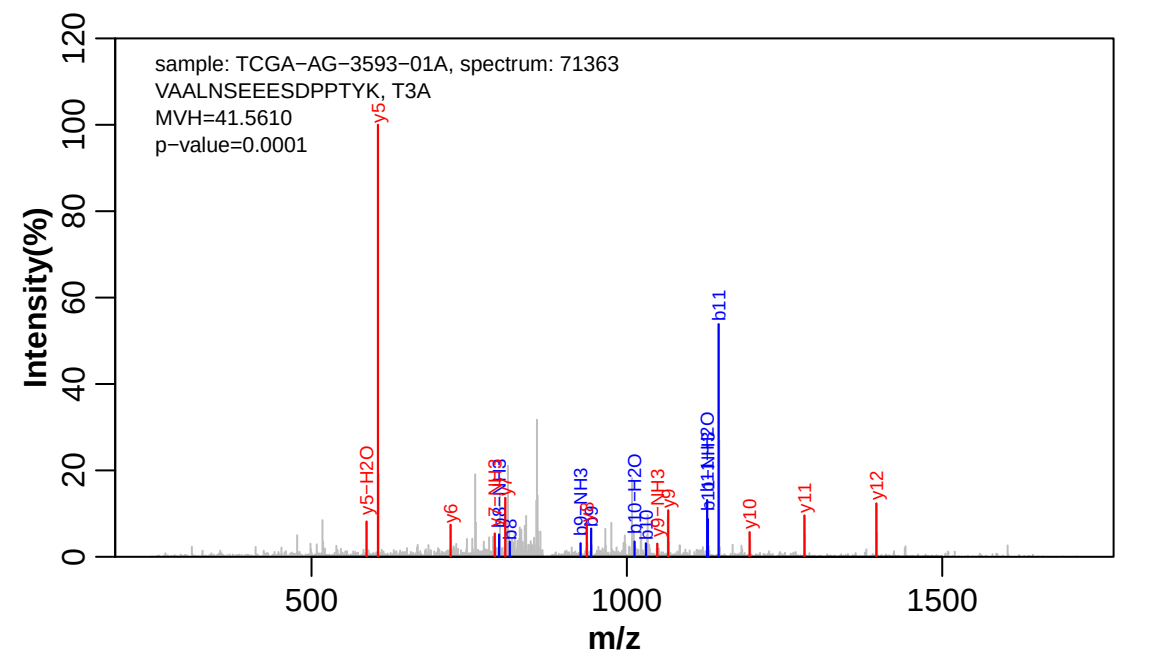

sample: TCGA−AG−3593−01A, spectrum: 128133
SVEEYANCHLAR, P1S
MVH=43.8982
p−value=0.0001
Intensity(%)
m/z
y3
b4−H2O
b4
y4
b5−H2O
b5
y6
y7
y8
b9
y9
b10
y10
b11

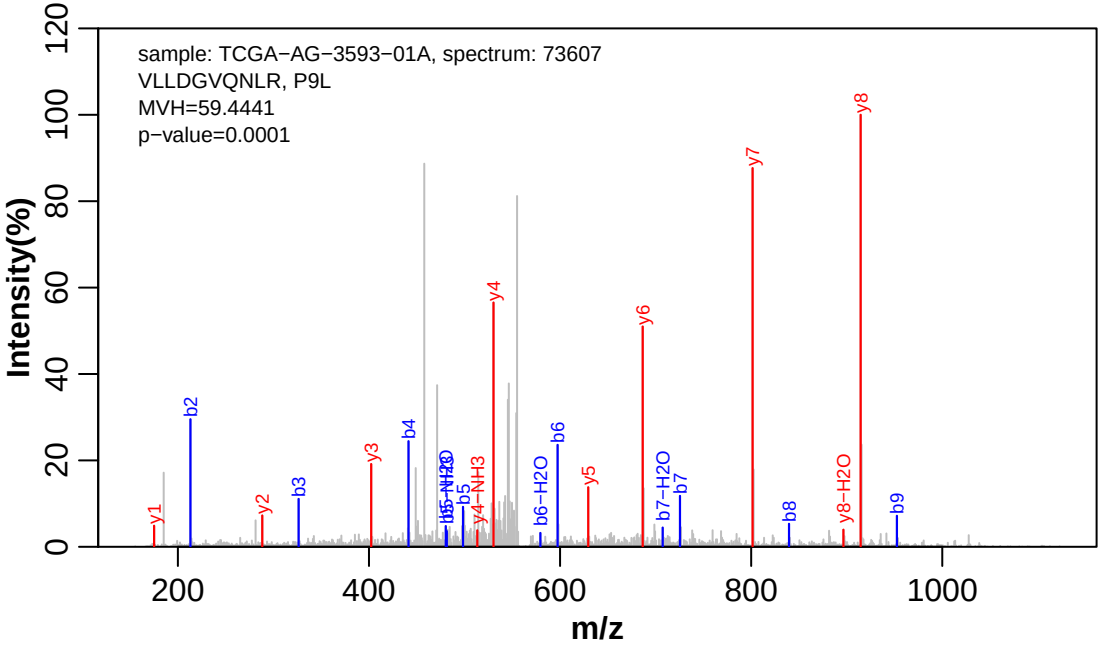

sample: TCGA−AG−3593−01A, spectrum: 108816
TLEGLQVEEEPVYK, E14K
MVH=49.9387
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y4
y9
y6
y5
y11
b10
b8
b7
b5
b4
b3
b12
b13
y12
y10
y2

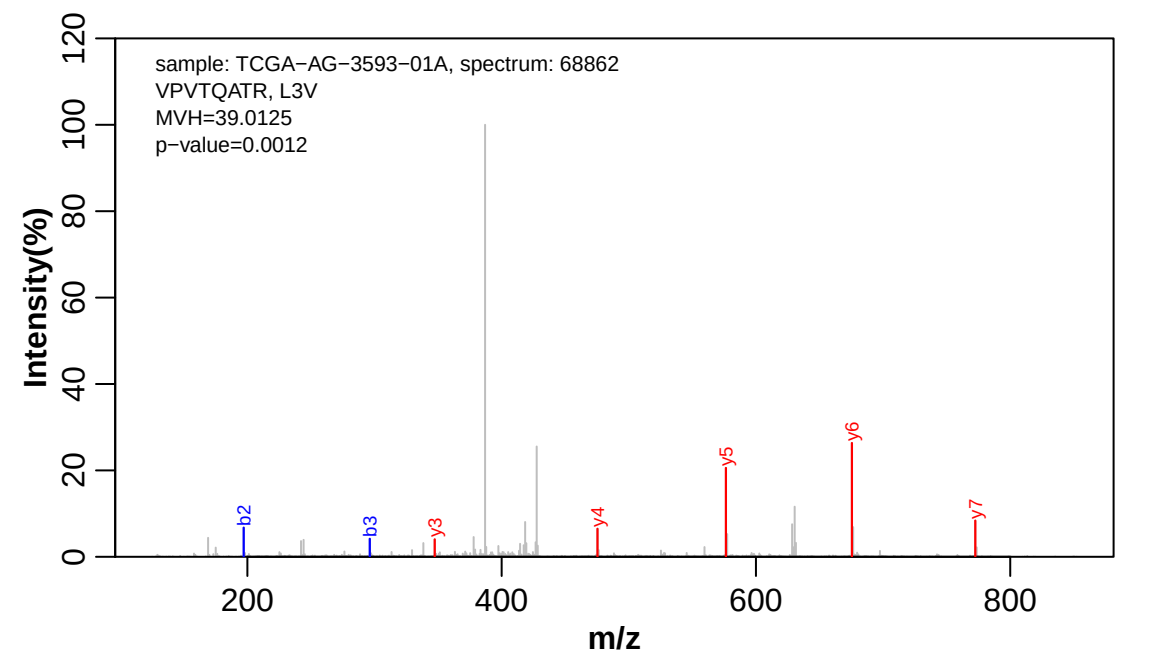

sample: TCGA−AG−3593−01A, spectrum: 105690
TTPLEAASSGAR, T11A
MVH=34.6306
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
b5
y6
y7
y8
y10

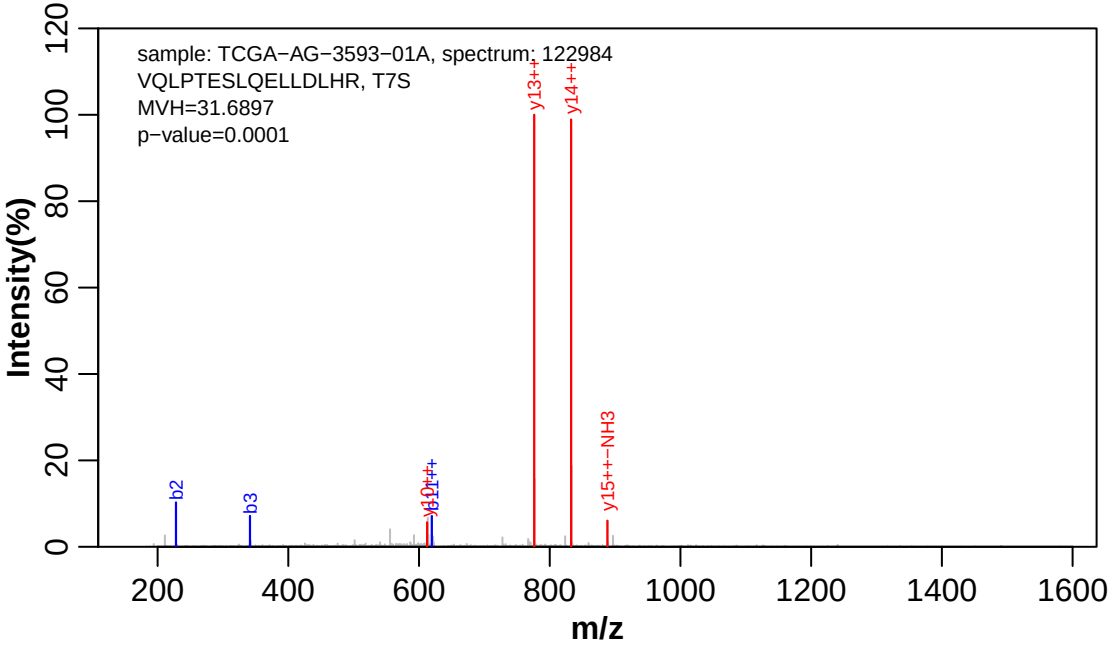

sample: TCGA−AG−3593−01A, spectrum: 65957
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=53.5828
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
b9++−NH3
y3
y4
b12++
y6
y7
b15++−H2O
y8
b17++
y9
b19++
b21++
y19++−NH3
b23++−H2O
b13
b14−H2O
b15

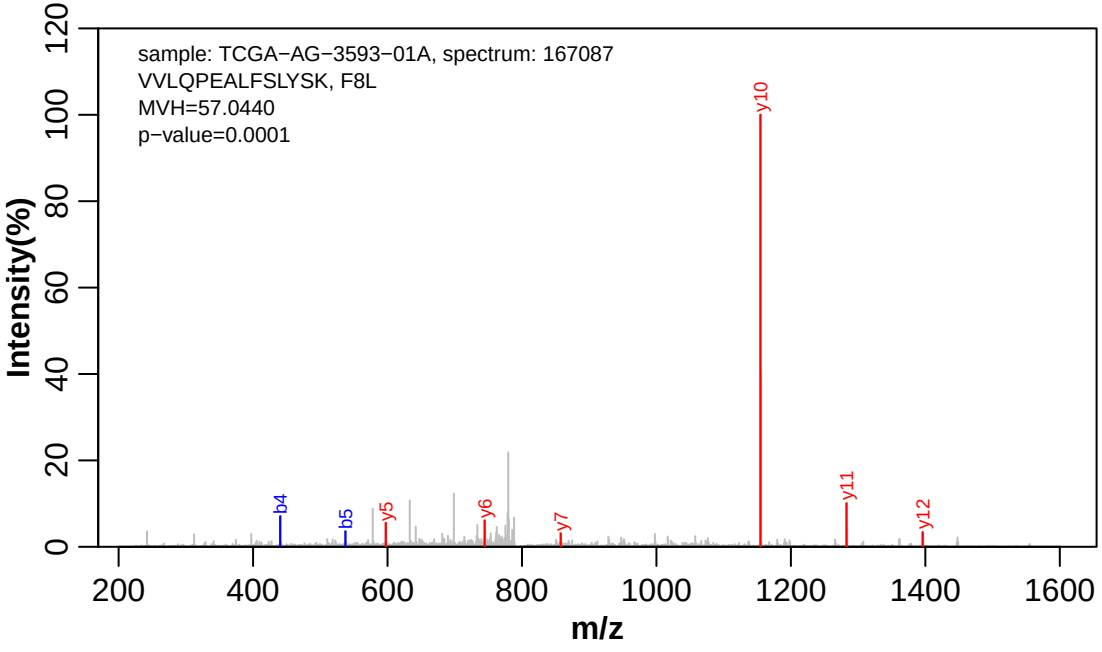

sample: TCGA−AG−3593−01A, spectrum: 88801
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
b5
y5
b6−H2O
y5−NH3
b7−H2O
b7
y6
y6−NH3
b8
b9−H2O
b9
y8
y9
y10
b11
b12
y11
y12−H2O
b13

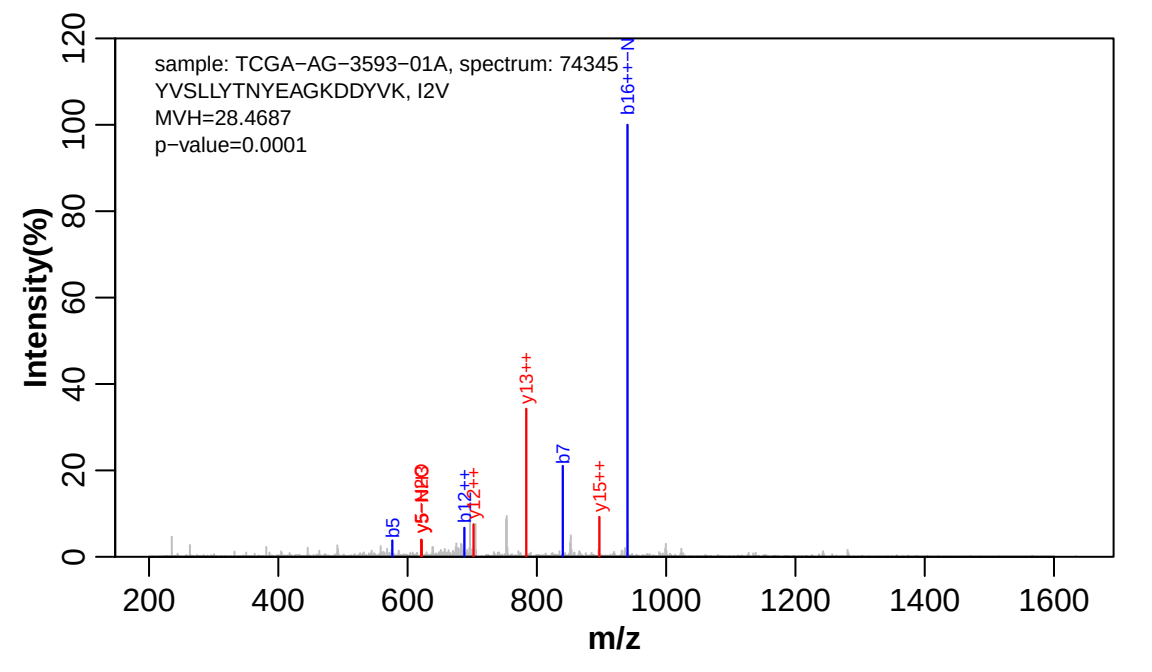

sample: TCGA−AG−3593−01A, spectrum: 71363
VAALNSEEESDPPTYK, T3A
MVH=41.5610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y5−H2O
y6
b8−NH3
y7
b8
b9−NH3
b9
b10−H2O
b10
y9−NH3
y9
b11
b11−NH2O
y10
y11
y12

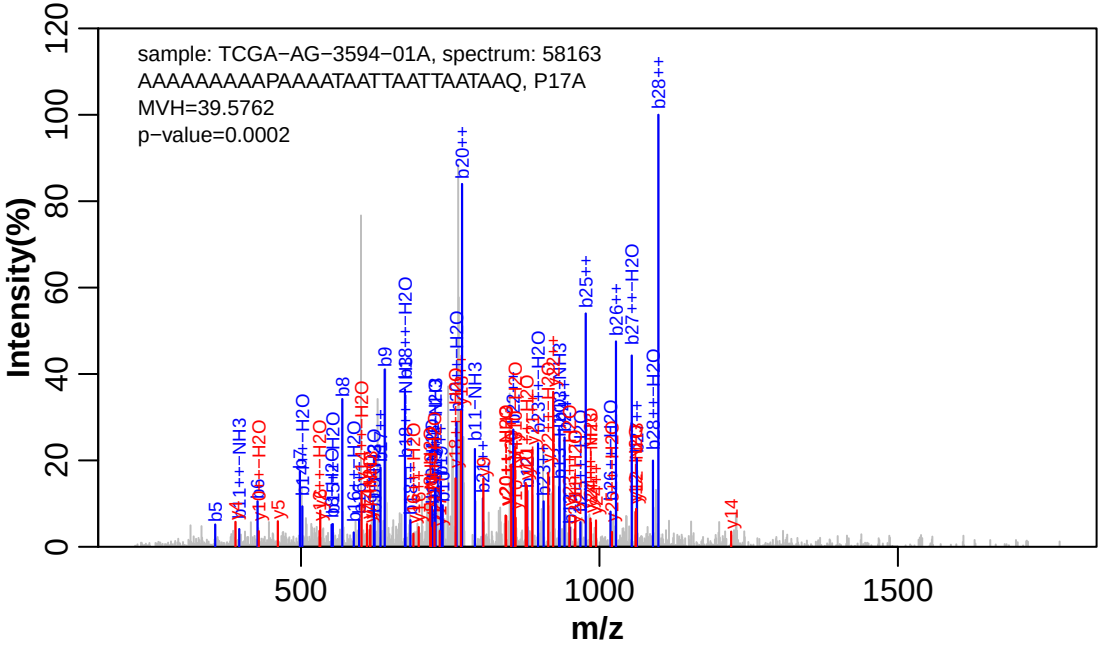

sample: TCGA−AG−3593−01A, spectrum: 73607
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3
b4
b5−NH3
b5
y4−NH3
y4
b6−H2O
b6
y5
y6
b7−H2O
b7
b8
y7
y8−H2O
y8
b9

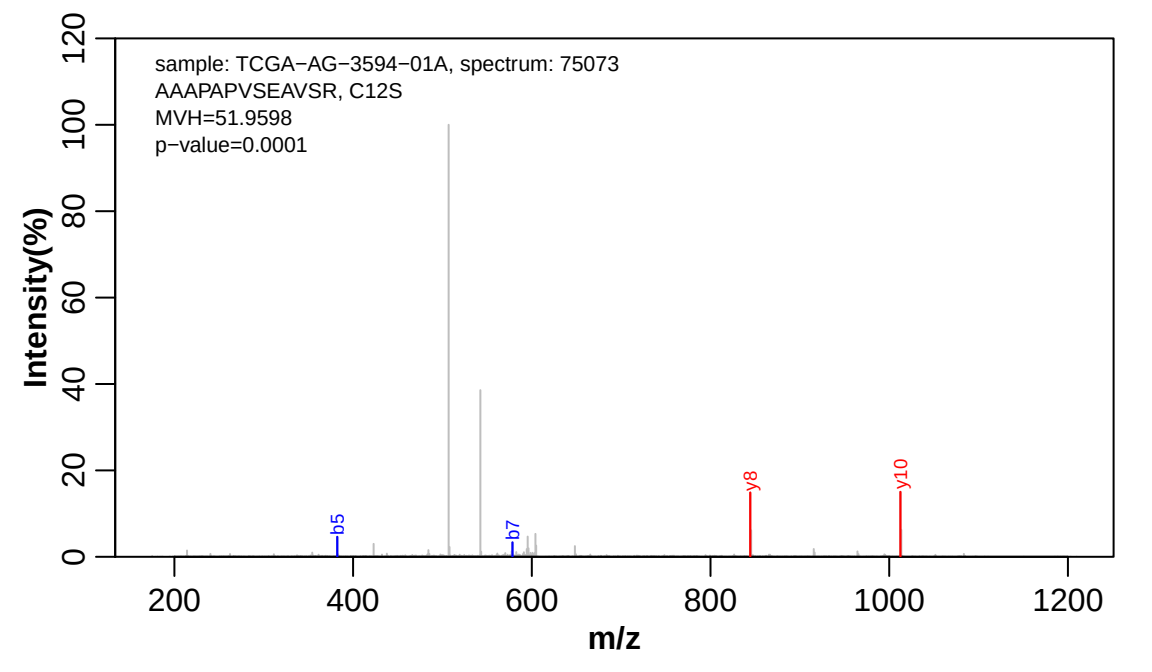

sample: TCGA−AG−3593−01A, spectrum: 68862
VPVTQATR, L3V
MVH=39.0125
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

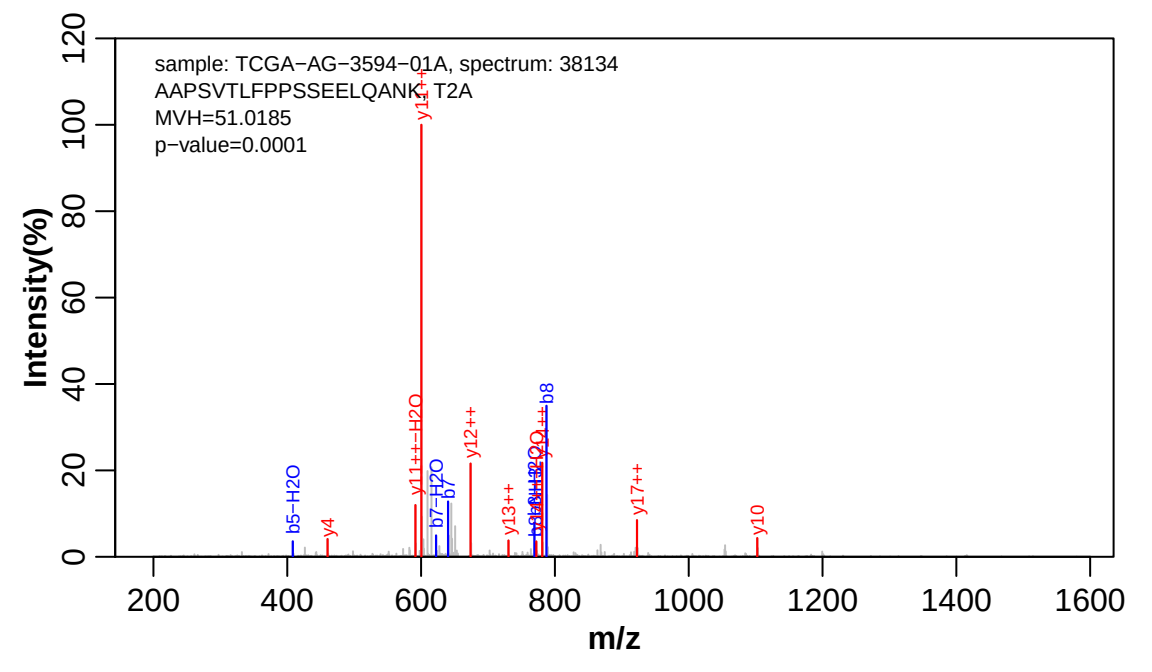

sample: TCGA−AG−3593−01A, spectrum: 122984
VQLPTESLQELLDLHR, T7S
MVH=31.6897
p−value=0.0001
Intensity(%)
m/z
b2
b3
y13++
y14++
y15++−NH3

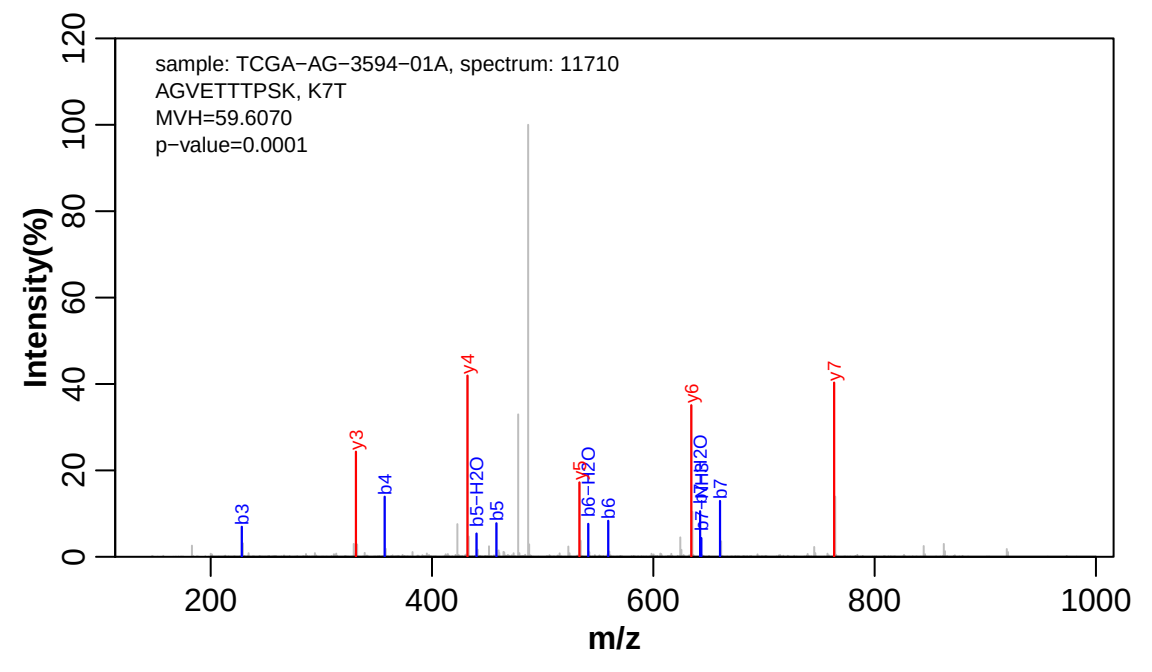

sample: TCGA−AG−3593−01A, spectrum: 167087
VVLQPEALFSLYSK, F8L
MVH=57.0440
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
b5
y5
y6
y7
y10
y11
y12

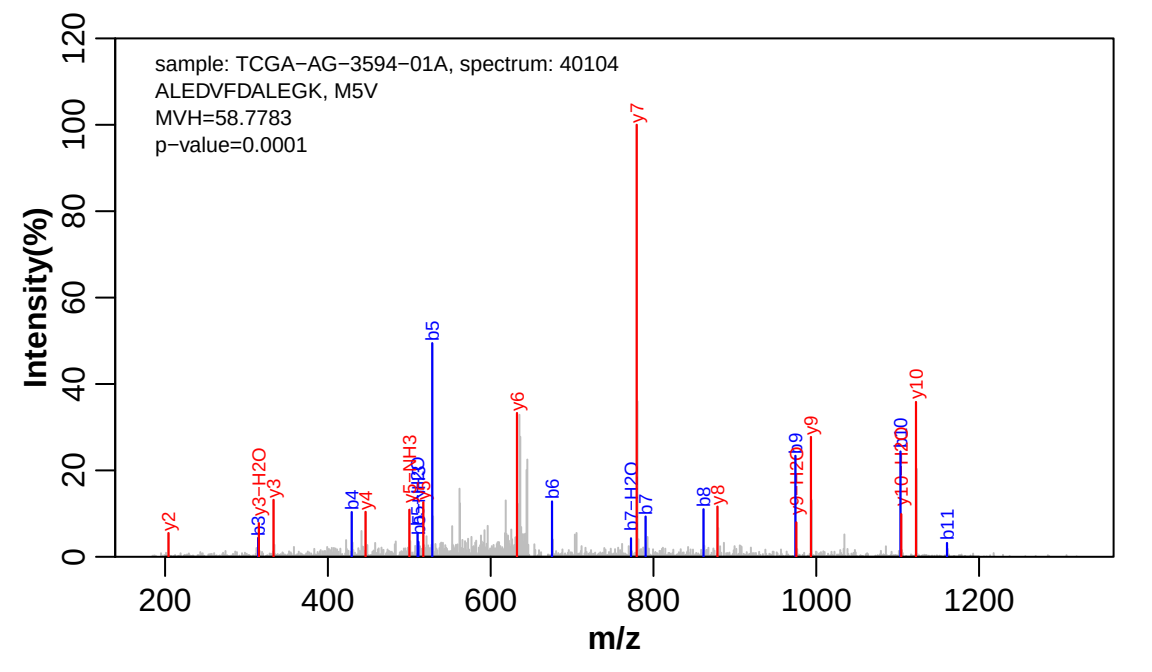

sample: TCGA−AG−3593−01A, spectrum: 74345
YVSLLYTNYEAGKDDYVK, I2V
MVH=28.4687
p−value=0.0001
b16++−N
y13++
b7
y15++
b12++
y12++
y5−NH3
b5
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

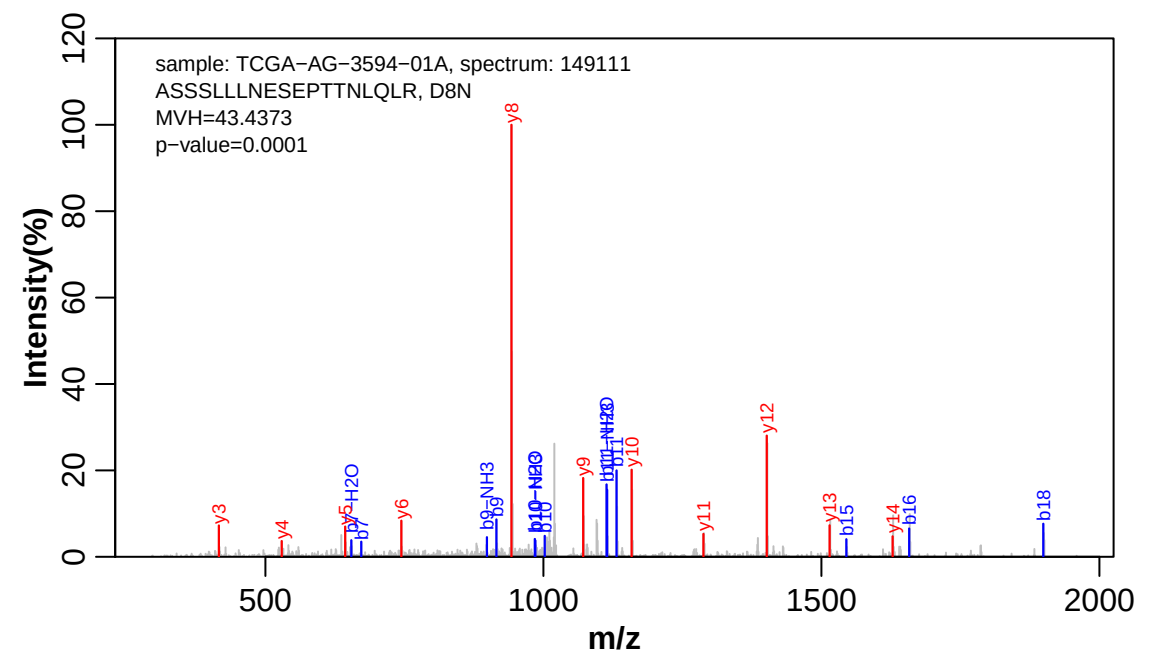

sample: TCGA−AG−3594−01A, spectrum: 58163
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=39.5762
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++
b25++
b26++
b27++−H2O
b28++−H2O
b11−NH3
b9
b8
y14
b5

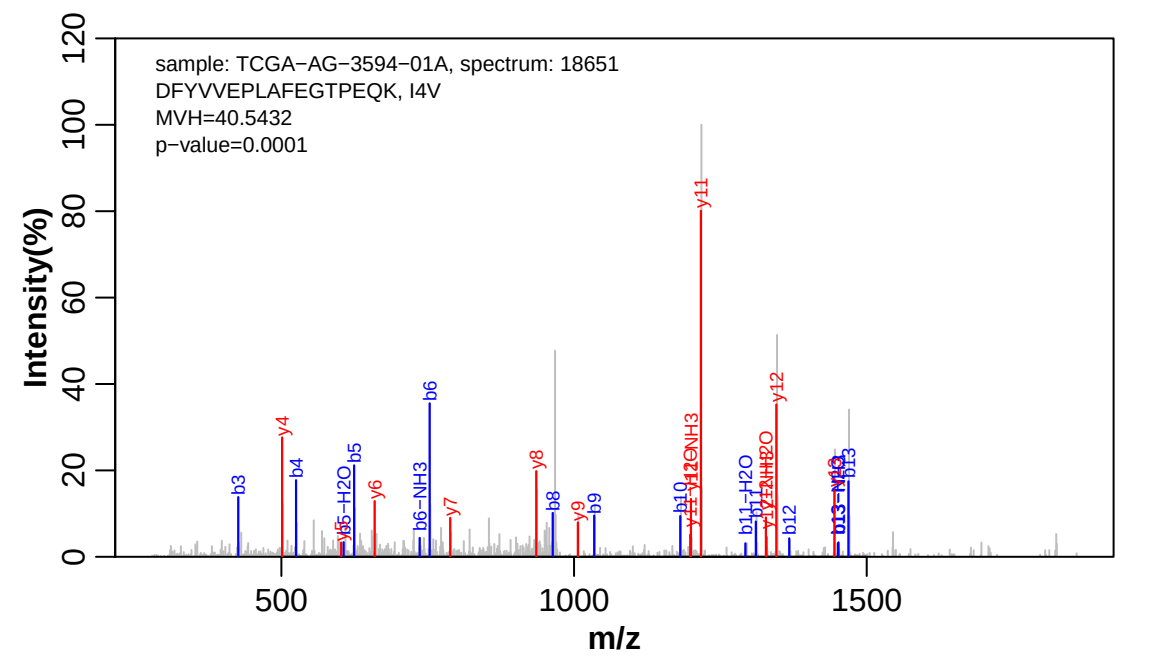

sample: TCGA−AG−3594−01A, spectrum: 75073
AAAPAPVSEAVSR, C12S
MVH=51.9598
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
y8
y10

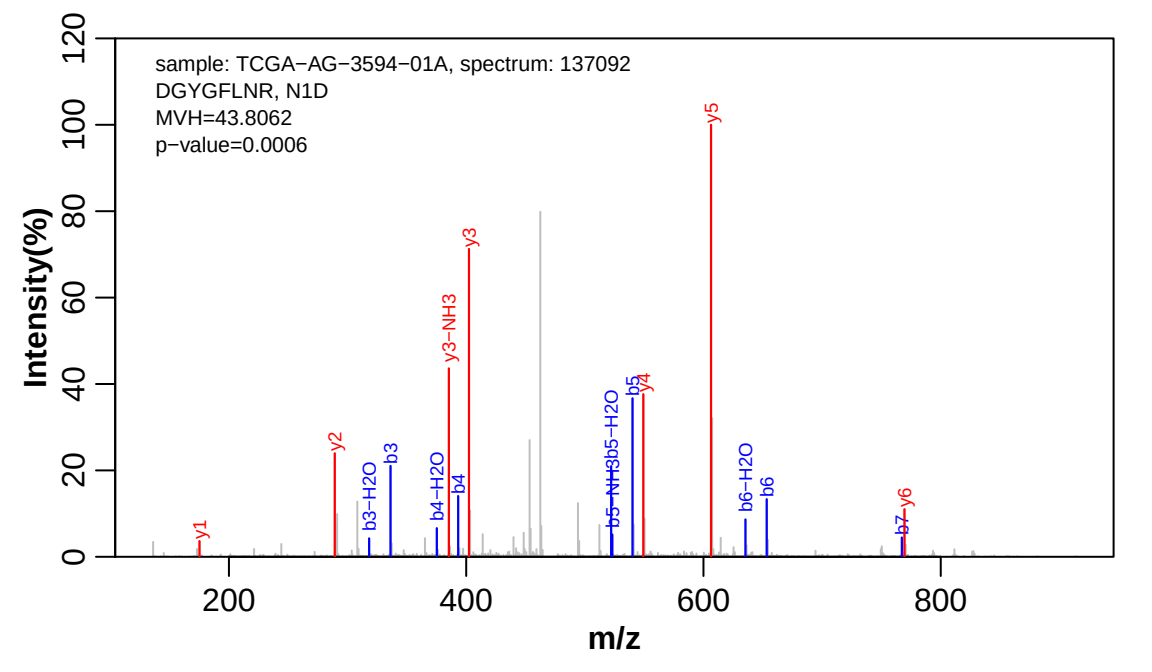

sample: TCGA−AG−3594−01A, spectrum: 38134
AAPSVTLFPPSSEELQANK_T2A
MVH=51.0185
p−value=0.0001
Intensity(%)
m/z
y14++
y11++−H2O
y12++
b5−H2O
y4
b7−H2O
b7
y13++
b8
y17++
y10
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

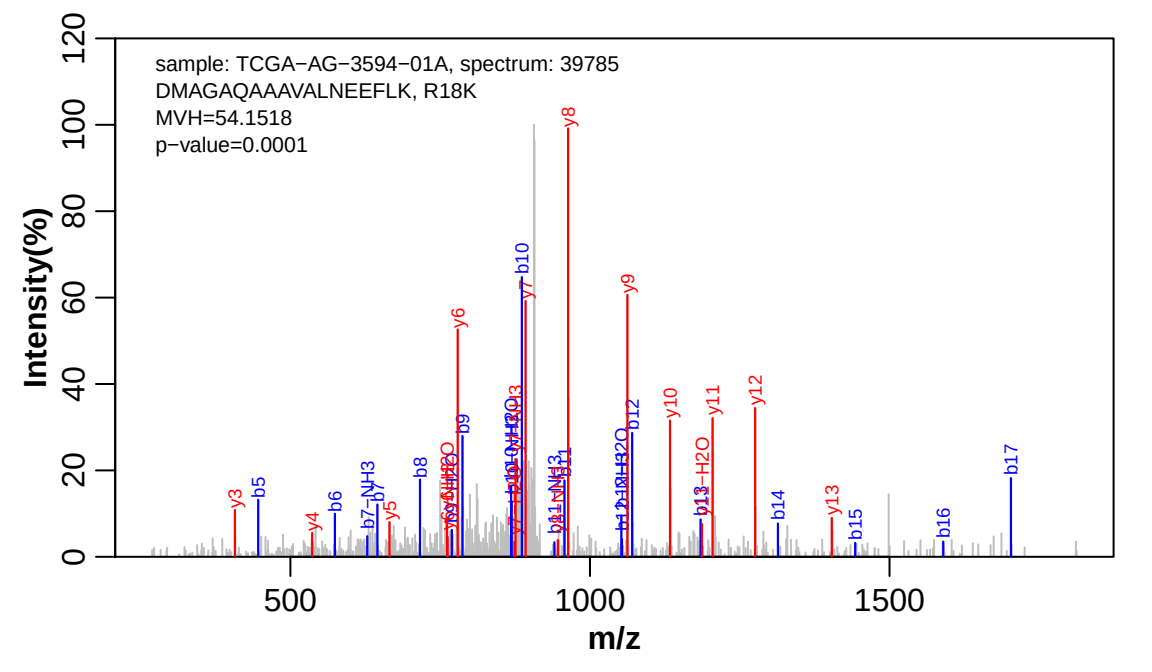

sample: TCGA−AG−3594−01A, spectrum: 11710
AGVETTTPSK, K7T
MVH=59.6070
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7

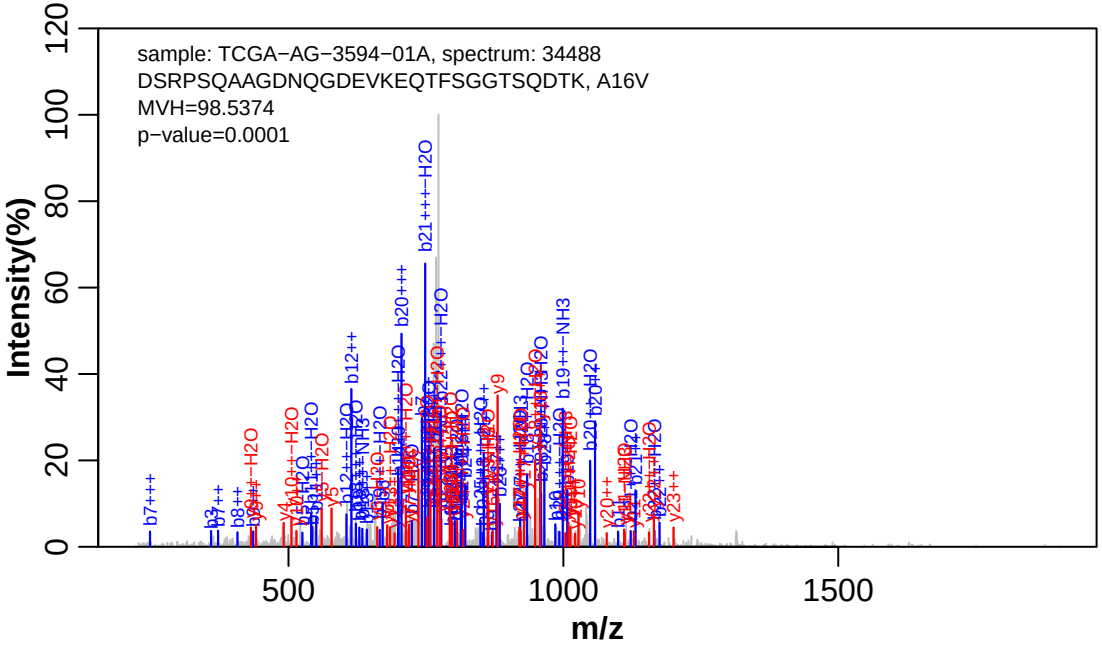

sample: TCGA−AG−3594−01A, spectrum: 40104
ALEDVFDALEGK, M5V
MVH=58.7783
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y6
b6
y7
b7
b8
y8
y9
y10
b11

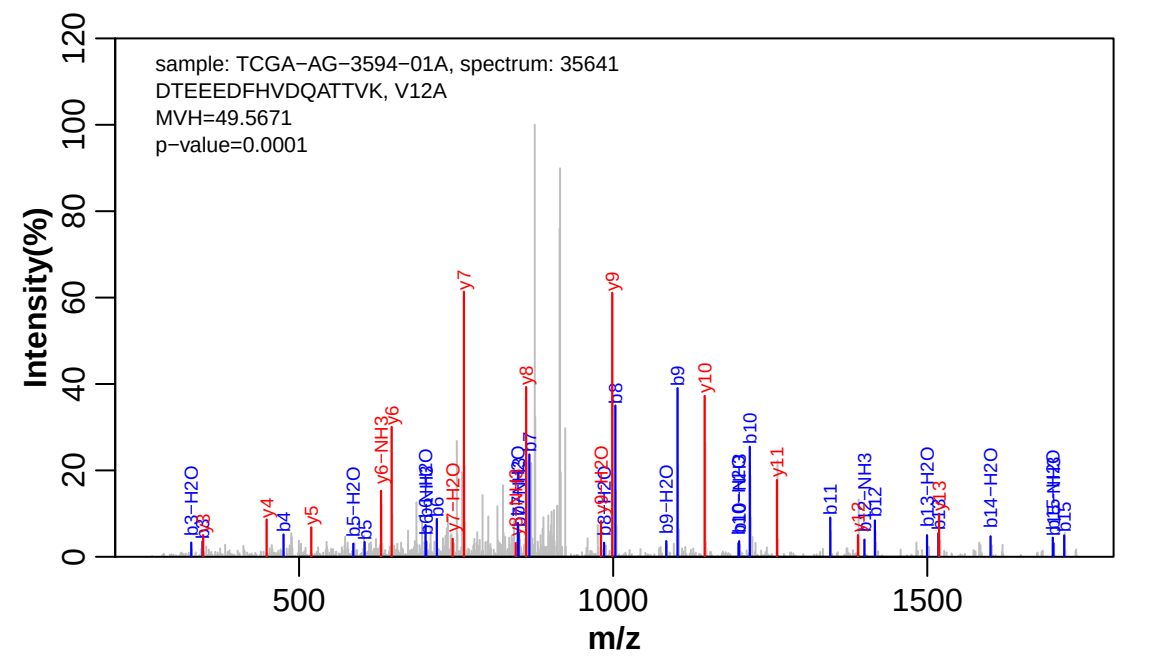

sample: TCGA−AG−3594−01A, spectrum: 149111
ASSSLLLNESEPTTNLQLR, D8N
MVH=43.4373
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y12
y10
y9
y11
y6
y5−H2O
y4
y3
y13
b18
b16
b15
y14
b9−NH3
b7
b8

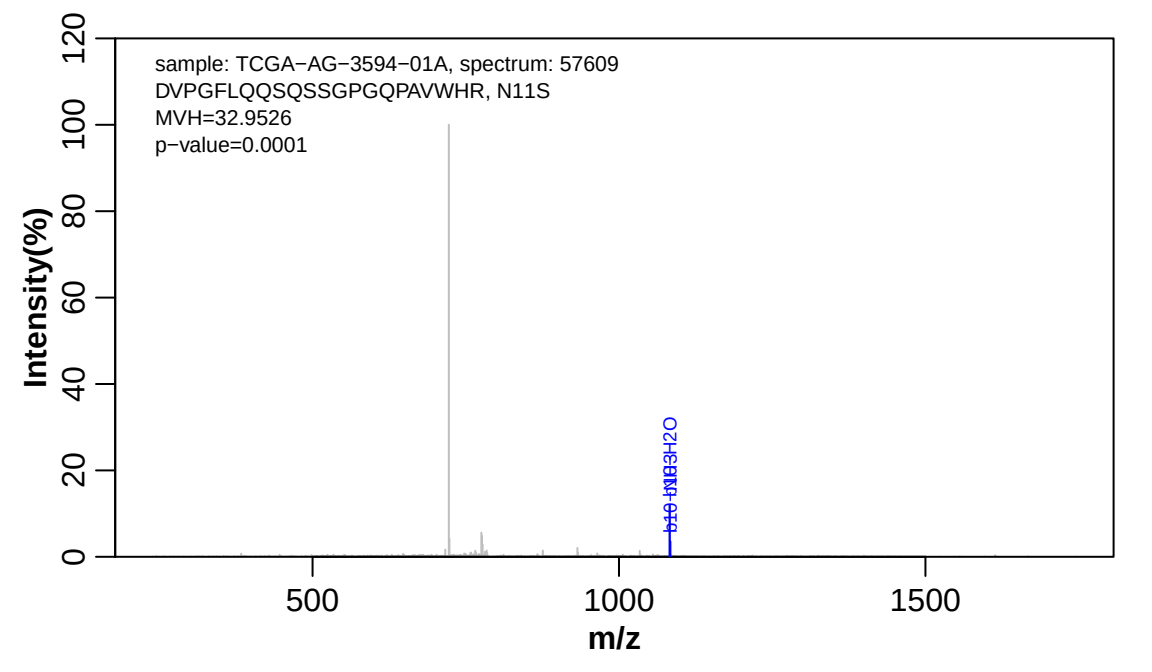

sample: TCGA−AG−3594−01A, spectrum: 18651
DFYVVEPLAFEGTPEQK, I4V
MVH=40.5432
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6
b6
b6−NH3
y7
y8
b8
y9
b9
y11
b10
b11−H2O
y12
b12
b13

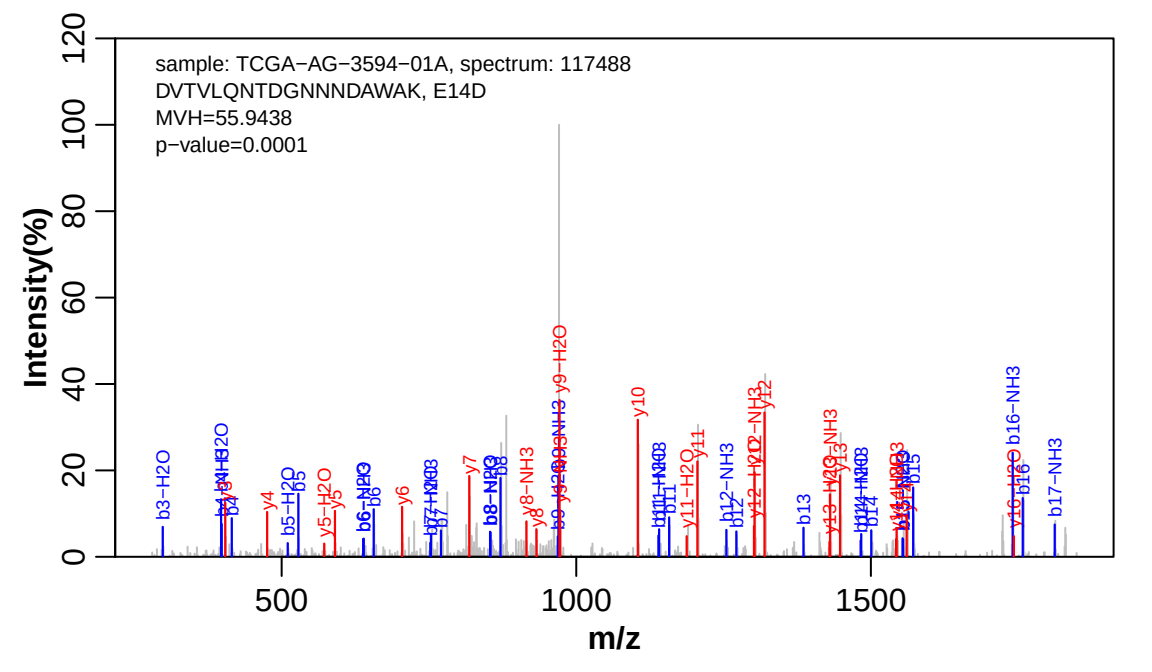

sample: TCGA−AG−3594−01A, spectrum: 137092
DGYGFLNR, N1D
MVH=43.8062
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

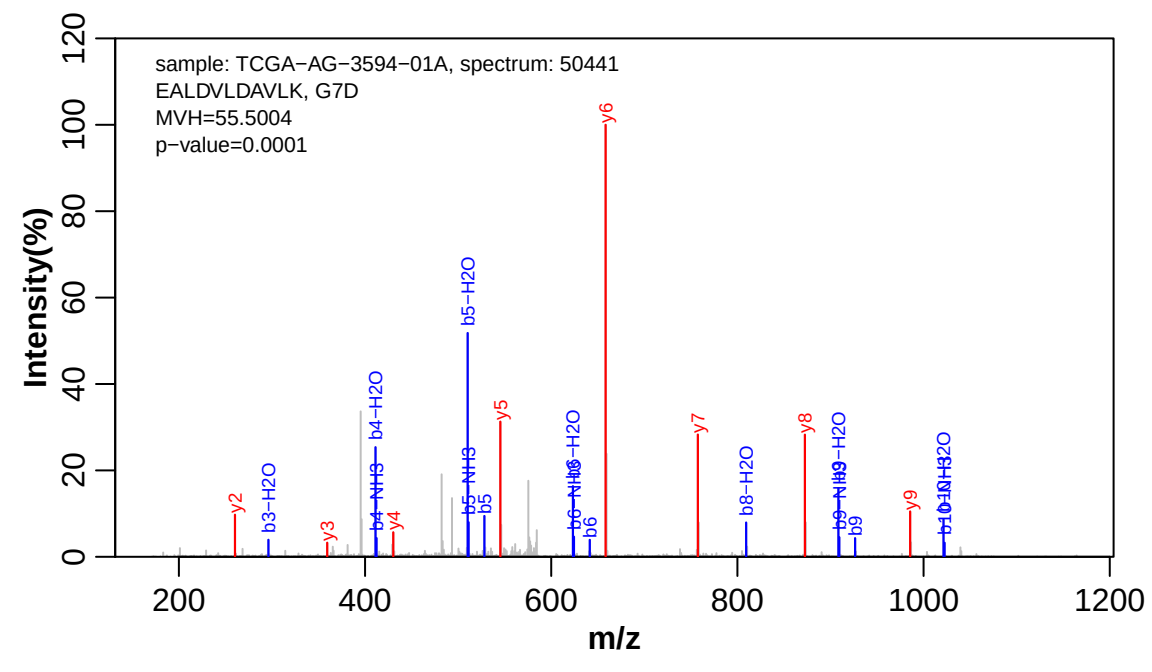

sample: TCGA−AG−3594−01A, spectrum: 39785
DMAGAQAAAVALNEEFLK, R18K
MVH=54.1518
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5
y4
b6
b7−NH3
y5
b8
y6
b9
y7
b10
y8
y9
b12
y10
y11
b13−H2O
y12
b14
y13
b15
b16
b17

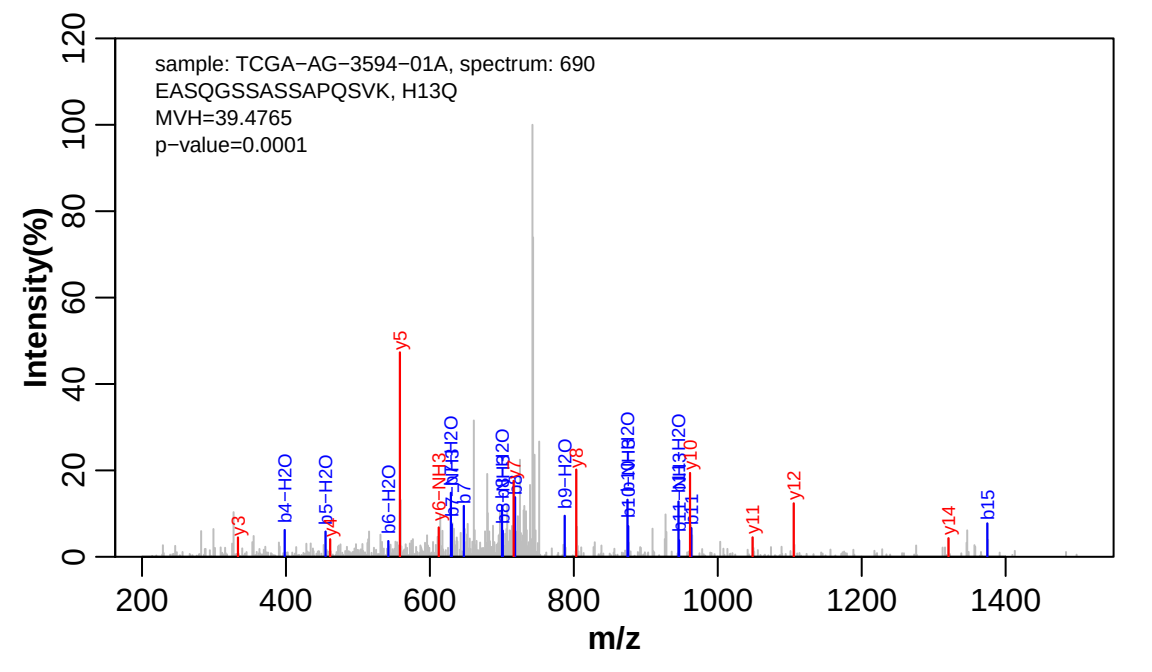

sample: TCGA−AG−3594−01A, spectrum: 34488
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=98.5374
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

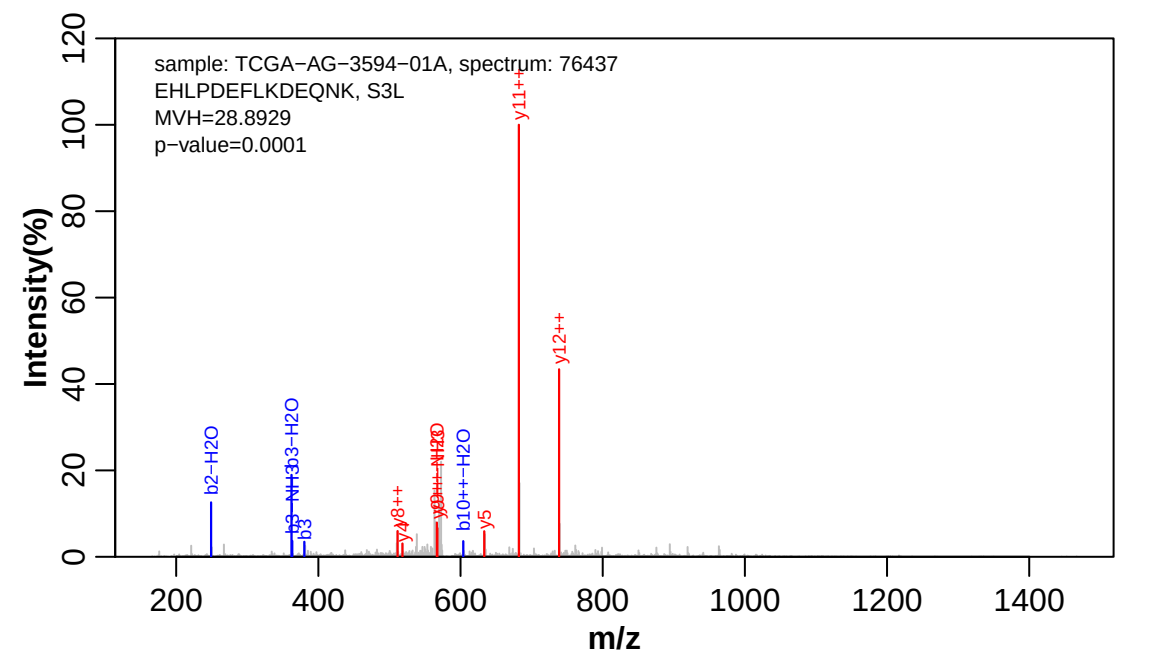

sample: TCGA−AG−3594−01A, spectrum: 35641
DTEEEDFHVDQATTVK, V12A
MVH=49.5671
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b3
y4
b4
y5
b5−H2O
b5
y6−NH3
y6
y7−H2O
y7
y8
b8
y9
b9
y10
b9−H2O
b10
y11
b11
b12
y12−NH3
b13−H2O
b13
b14−H2O
b15−NH3
b15

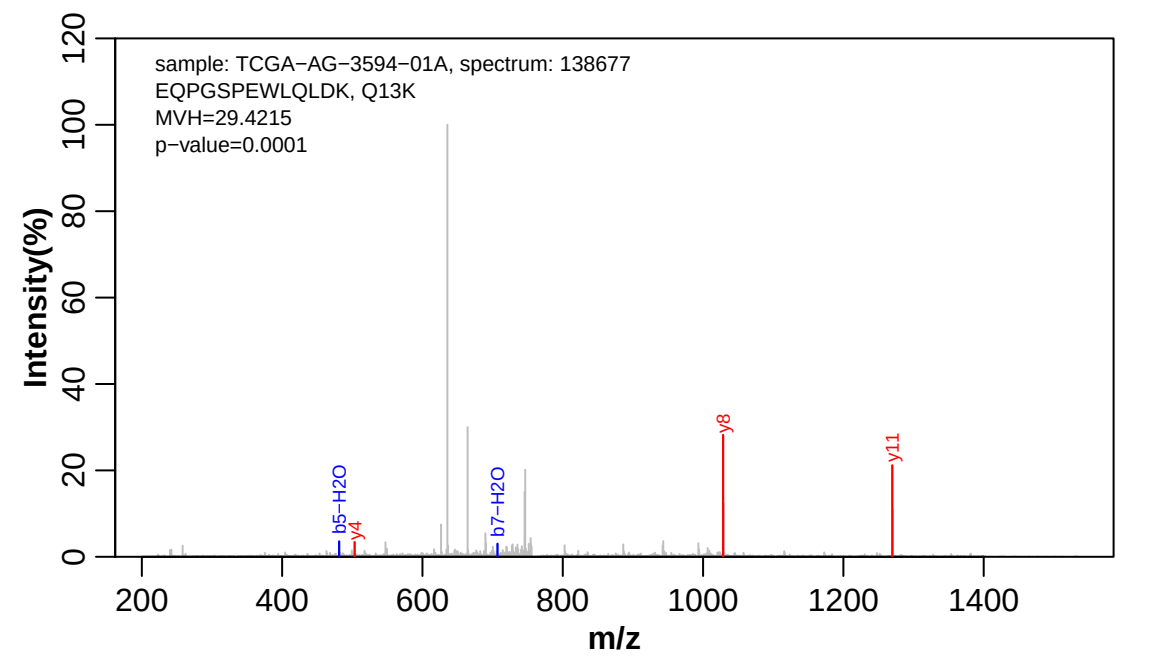

sample: TCGA−AG−3594−01A, spectrum: 57609
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=32.9526
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

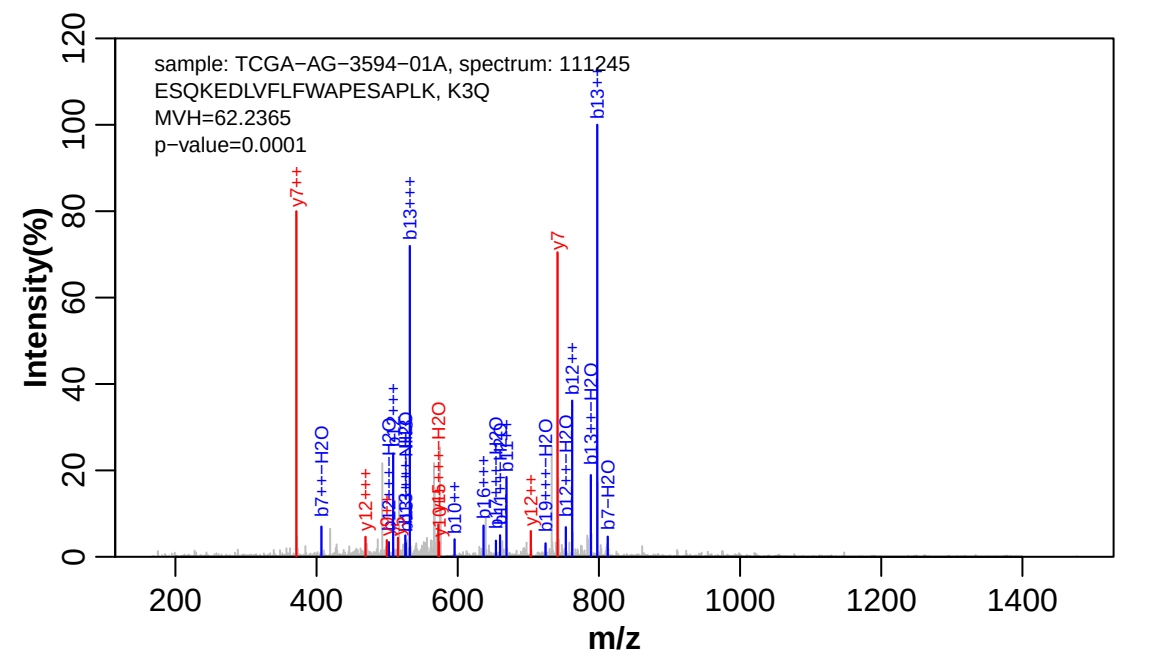

sample: TCGA−AG−3594−01A, spectrum: 117488
DVTVLQNTDGNNNDAWAK, E14D
MVH=55.9438
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y4
b5−H2O
y5
y5−H2O
y6
y7
y8−NH3
y9−H2O
y10
y11
y11−H2O
b12−NH3
y12−NH3
b13
y13−NH3
b16−NH3
b17−NH3

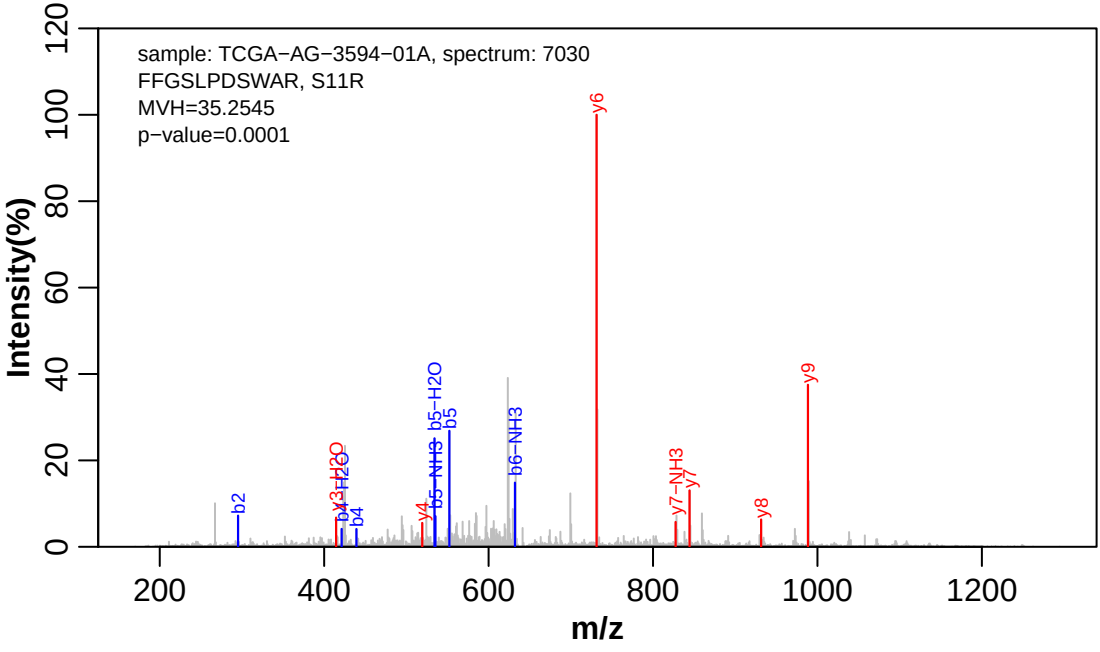

sample: TCGA−AG−3594−01A, spectrum: 50441
EALDVLDAVLK, G7D
MVH=55.5004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−NH3
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−NH3
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9

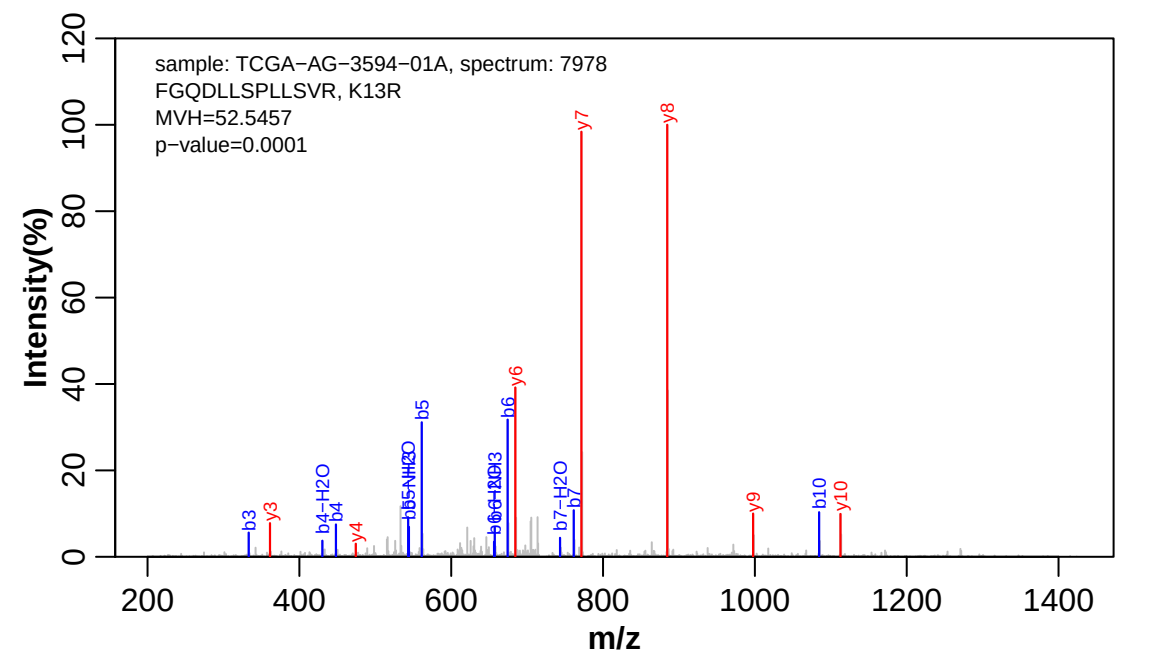

sample: TCGA−AG−3594−01A, spectrum: 690
EASQGSSASSAPQSVK, H13Q
MVH=39.4765
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4−H2O
y4
b5−H2O
b6−H2O
y5
y6−NH3
b7−NH3
b7−H2O
b7
b8−H2O
b8
b9
b9−H2O
y8
b10−NH3
b10−H2O
b10
b11−NH3
b11−H2O
b11
y10
y11
y12
y14
b15

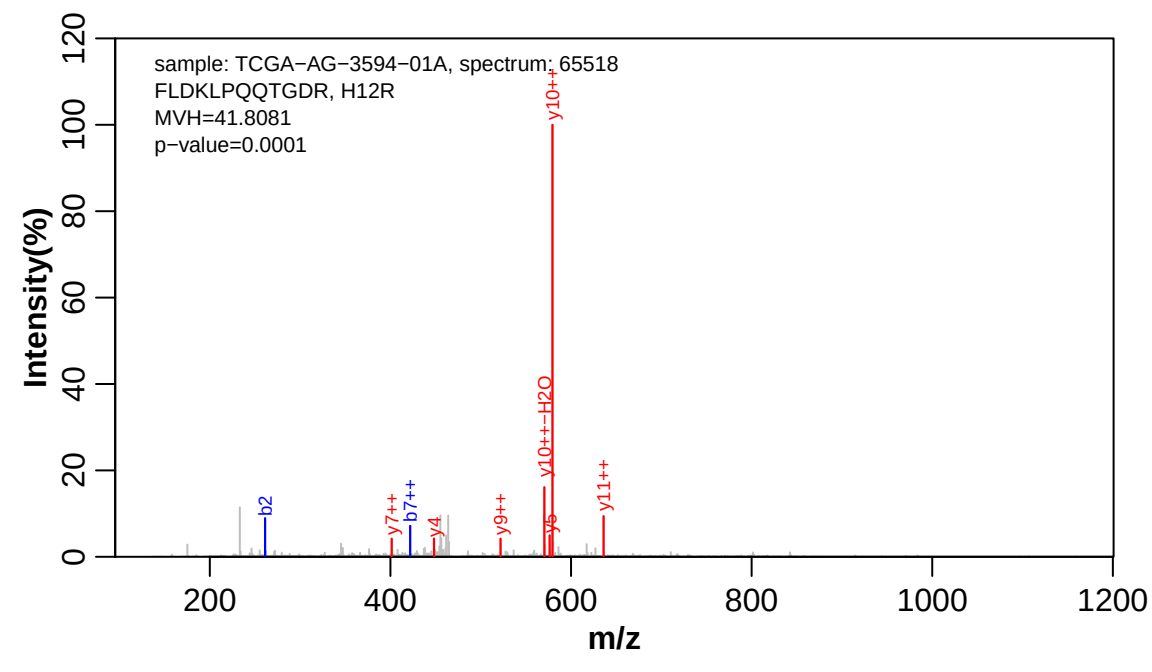

sample: TCGA−AG−3594−01A, spectrum: 76437
EHLPDEFLKDEQNK, S3L
MVH=28.8929
p−value=0.0001
Intensity(%)
m/z
y11++
y12++
b2−H2O
b3−H2O
b3−NH3
b3
y8++
b10++−H2O
y5

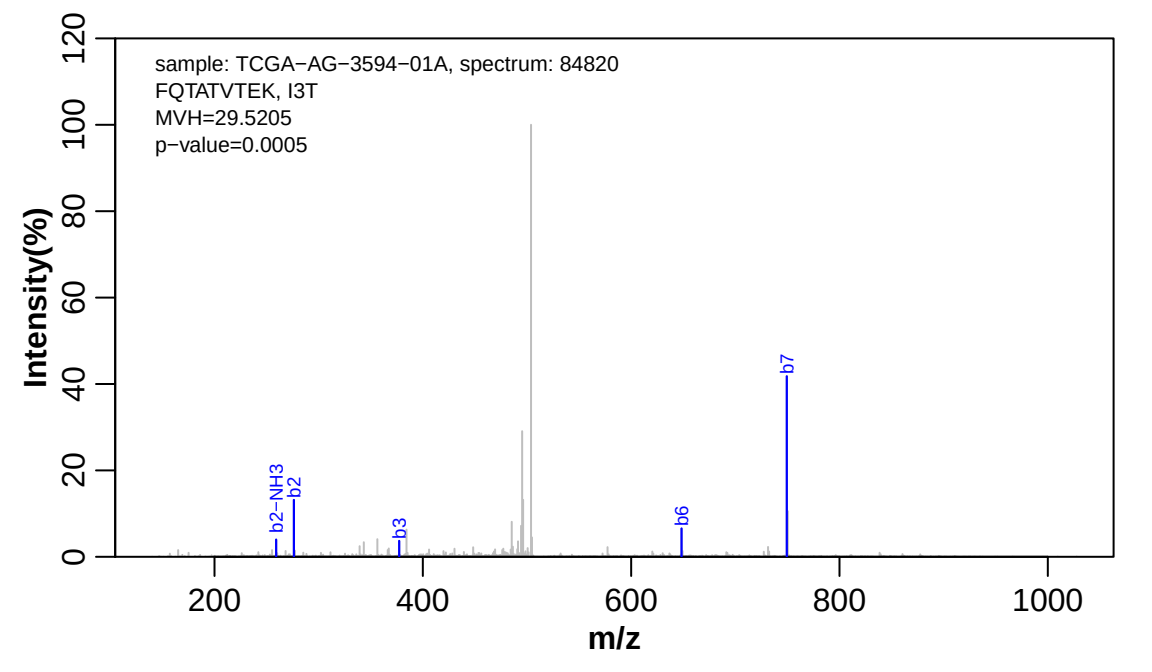

sample: TCGA−AG−3594−01A, spectrum: 138677
EQPGSPEWLQLDK, Q13K
MVH=29.4215
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
y8
y11

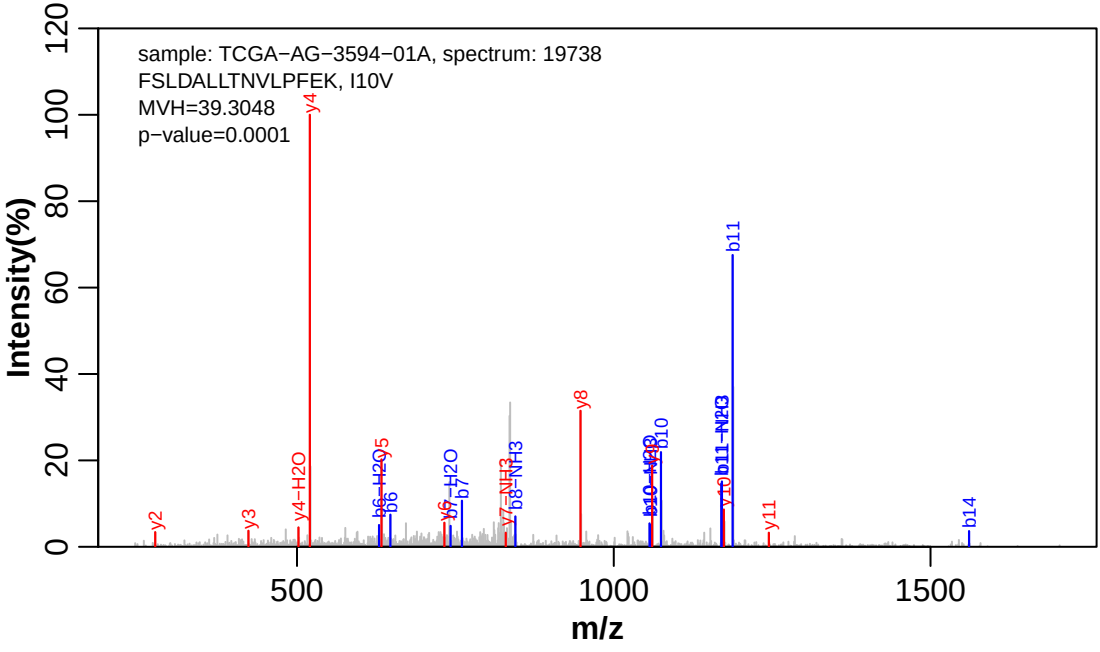

sample: TCGA−AG−3594−01A, spectrum: 111245
ESQKEDLVFLFWAPESAPLK, K3Q
MVH=62.2365
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7++
b13+++
b7++−H2O
y12+++
b10++
y7
b12++
b13++−H2O
b7−H2O
y12++
b19+++−H2O
b12++−H2O
b16+++
b13++
b13+++−H2O

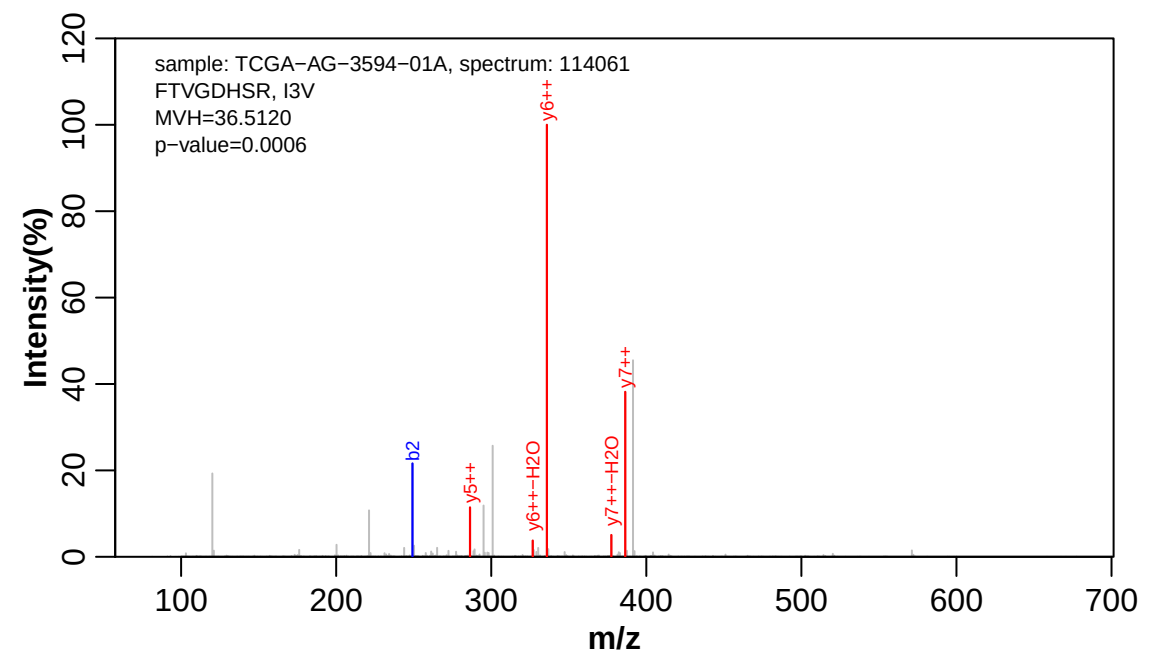

sample: TCGA−AG−3594−01A, spectrum: 7030
FFGSLPDSWAR, S11R
MVH=35.2545
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
b5−H2O
b5
b6−NH3
y3−H2O
y3
b4
y4
b5−NH3
y7−NH3
y7
y8
b2

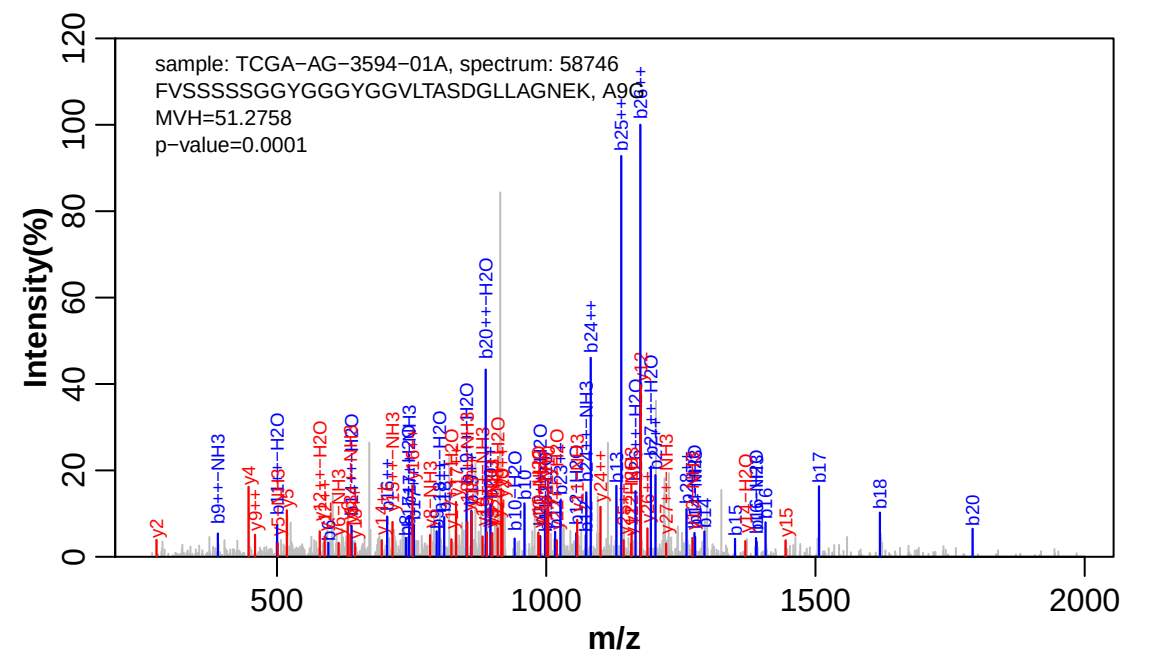

sample: TCGA−AG−3594−01A, spectrum: 7978
FGQDLLSPLLSVR, K13R
MVH=52.5457
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
y4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

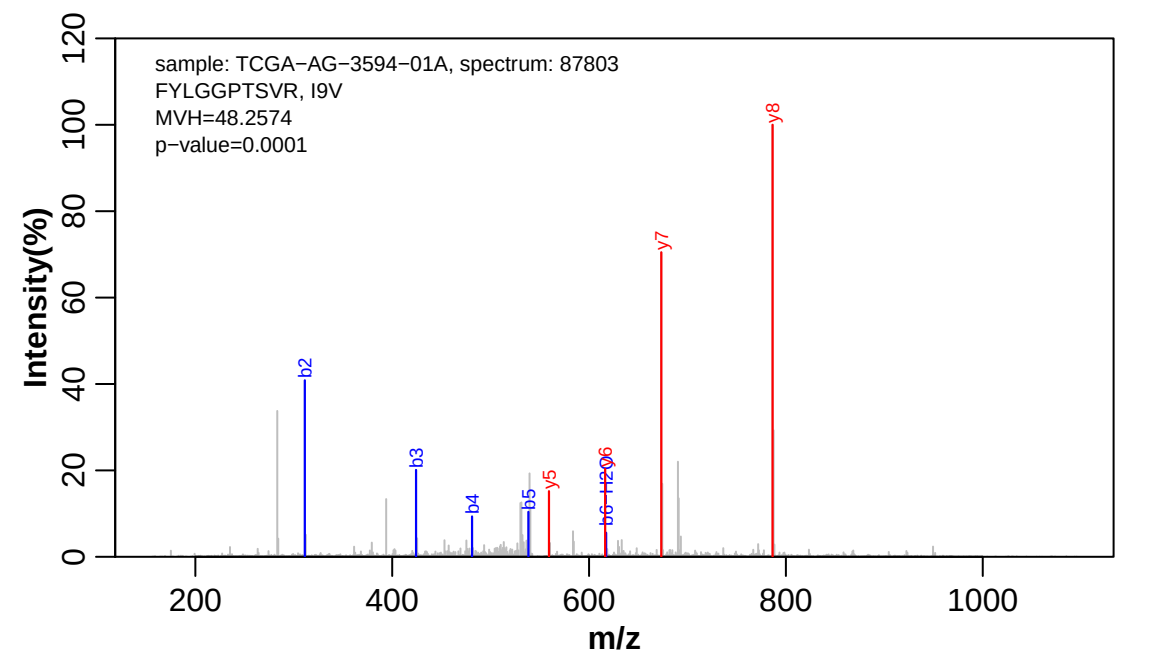

sample: TCGA−AG−3594−01A, spectrum: 65518
FLDKLPQQTGDR, H12R
MVH=41.8081
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b2
y7++
b7++
y4
y9++
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200

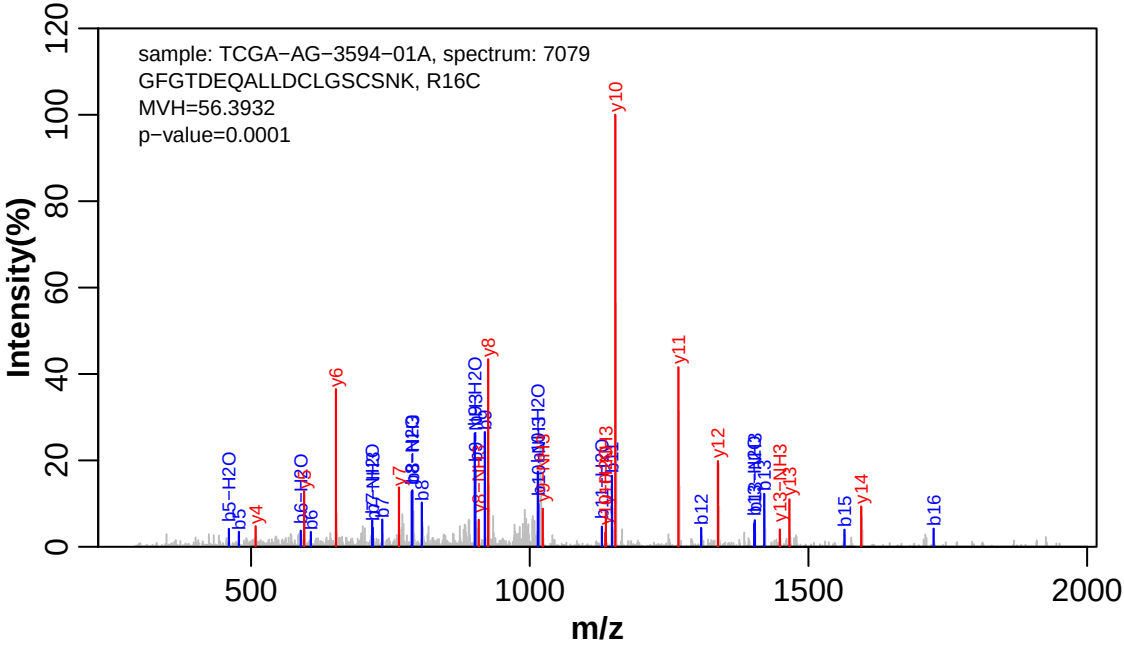

sample: TCGA−AG−3594−01A, spectrum: 84820
FQTATVTEK, I3T
MVH=29.5205
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b6
b7

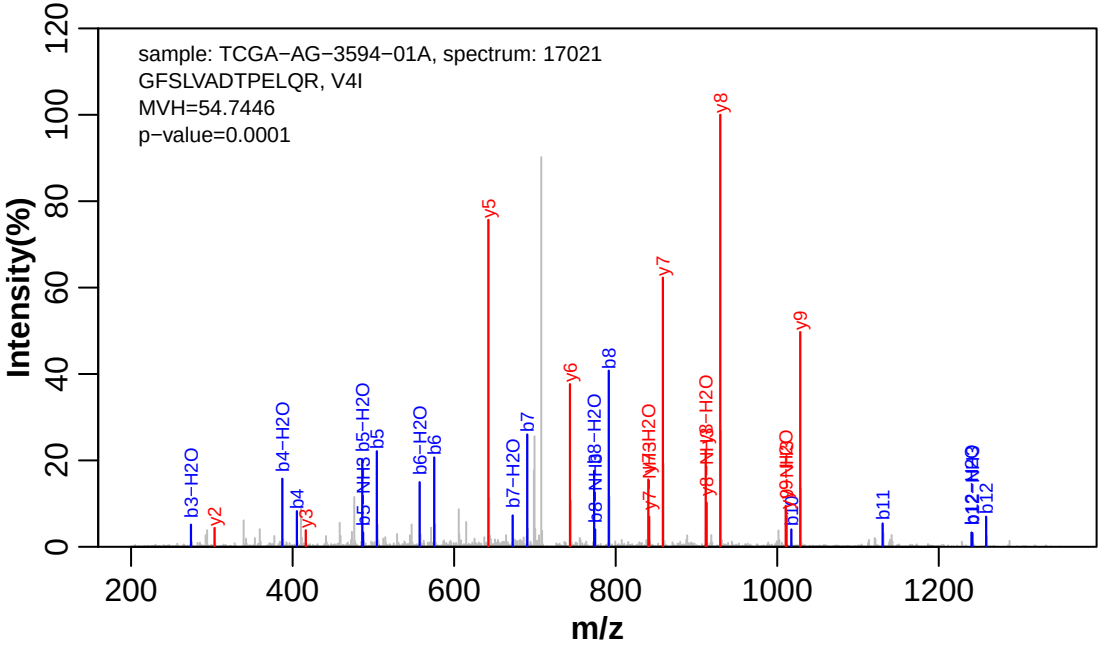

sample: TCGA−AG−3594−01A, spectrum: 19738
FSLDALLTNVLPFEK, I10V
MVH=39.3048
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y4−H2O
b6−H2O
b6
y6
y6−H2O
b7
y7−NH3
b8−NH3
y8
b10
b11
y11
b14

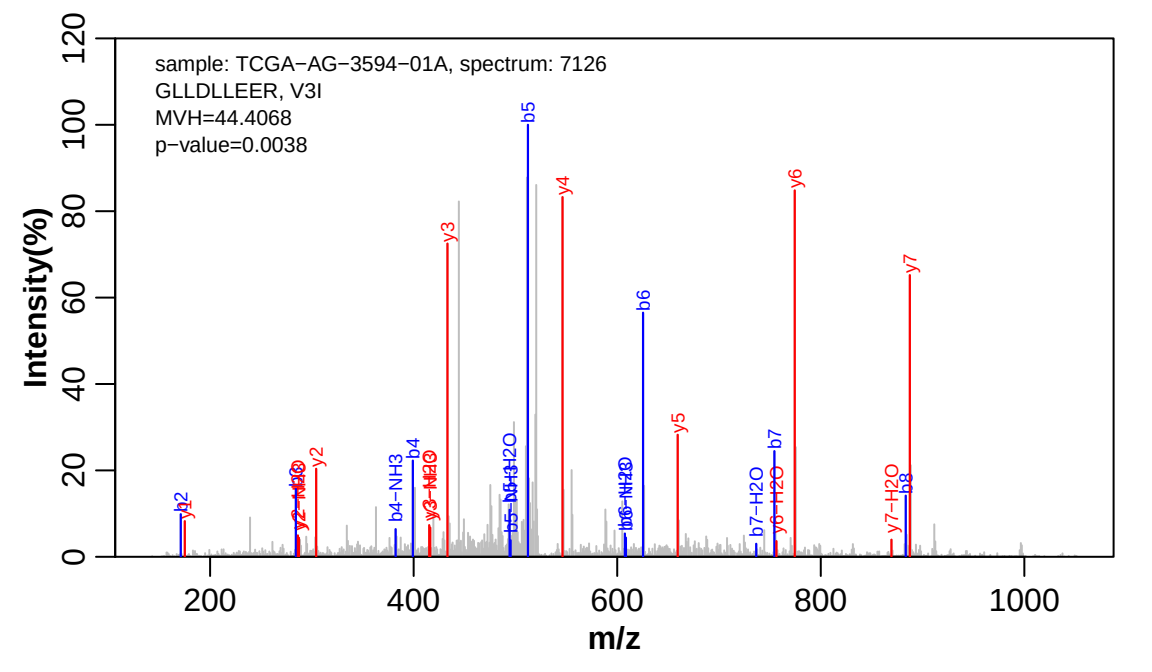

sample: TCGA−AG−3594−01A, spectrum: 114061
FTVGDHSR, I3V
MVH=36.5120
p−value=0.0006
y6++
b2
y5++
y6++−H2O
y7++−H2O
y7++
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z

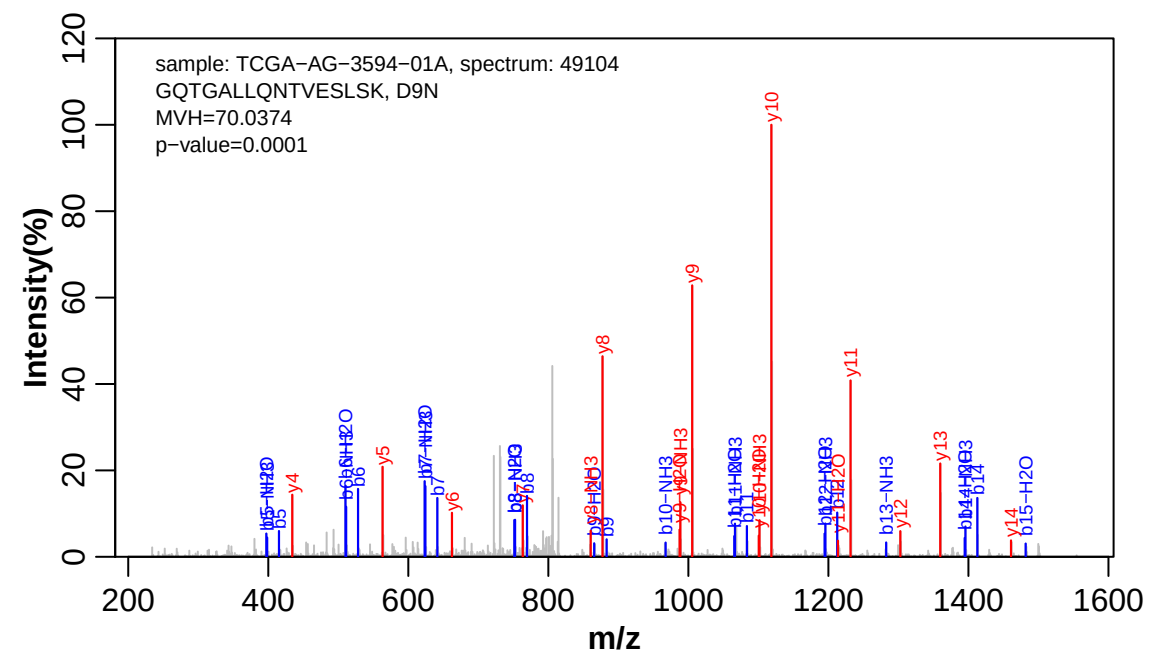

sample: TCGA−AG−3594−01A, spectrum: 58746
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=51.2758
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y9++
y4
y5++−NH3−H2O
y5++
b12++−H2O
b12++
y12++−H2O
y12++
b20++−H2O
b20++
b20++−H2O
b24++
b25++
b26++
y24++
b10++−H2O
b10++
y27++−NH3
y27++
b17
b18
b20
y15
y2

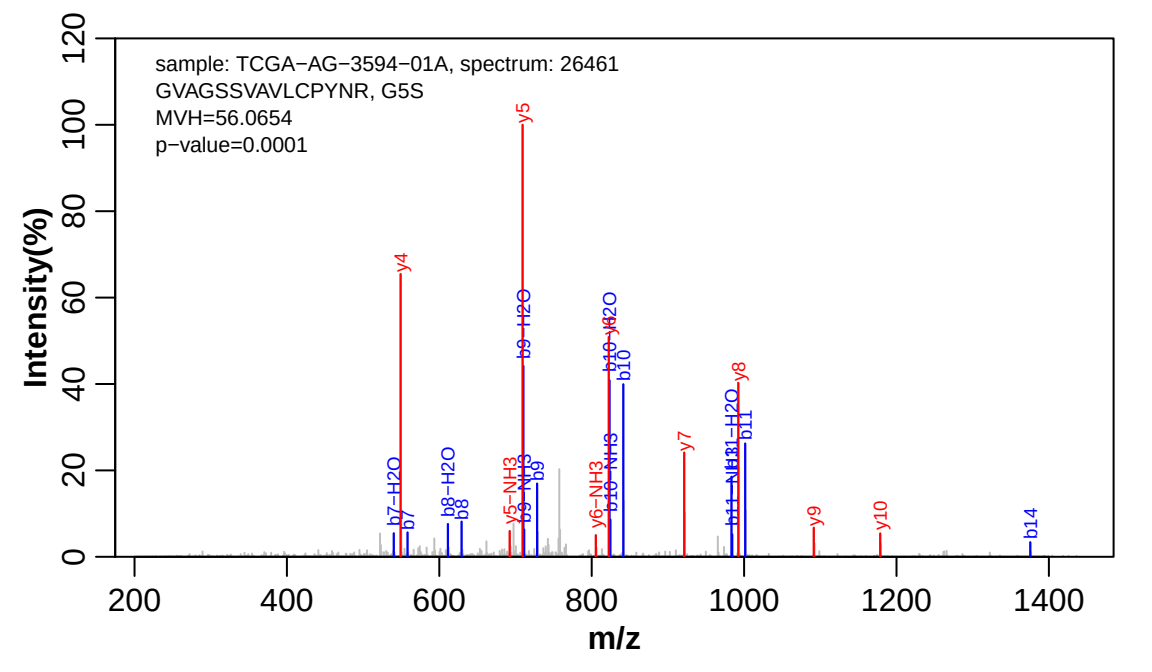

sample: TCGA−AG−3594−01A, spectrum: 87803
FYLGGPTSVR, I9V
MVH=48.2574
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5
y5
b6−H2O
y7
y8

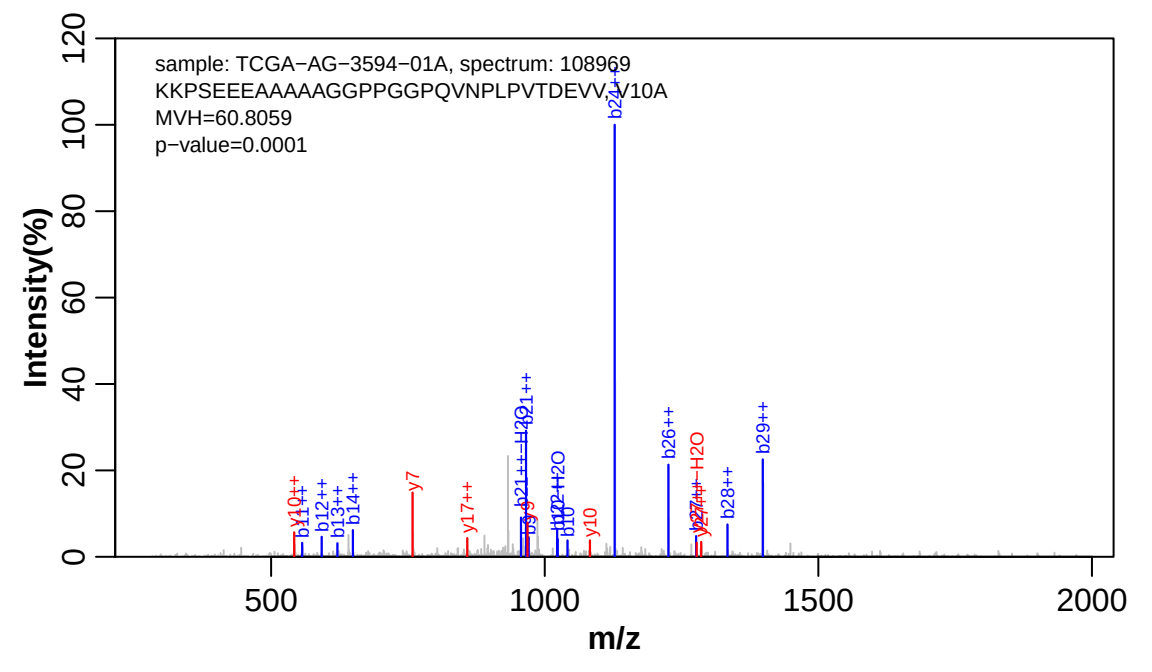

sample: TCGA−AG−3594−01A, spectrum: 7079
GFGTDEQALLDCLGSCSNK, R16C
MVH=56.3932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y6
y12
y14
b16
b15
b12
y4
y7

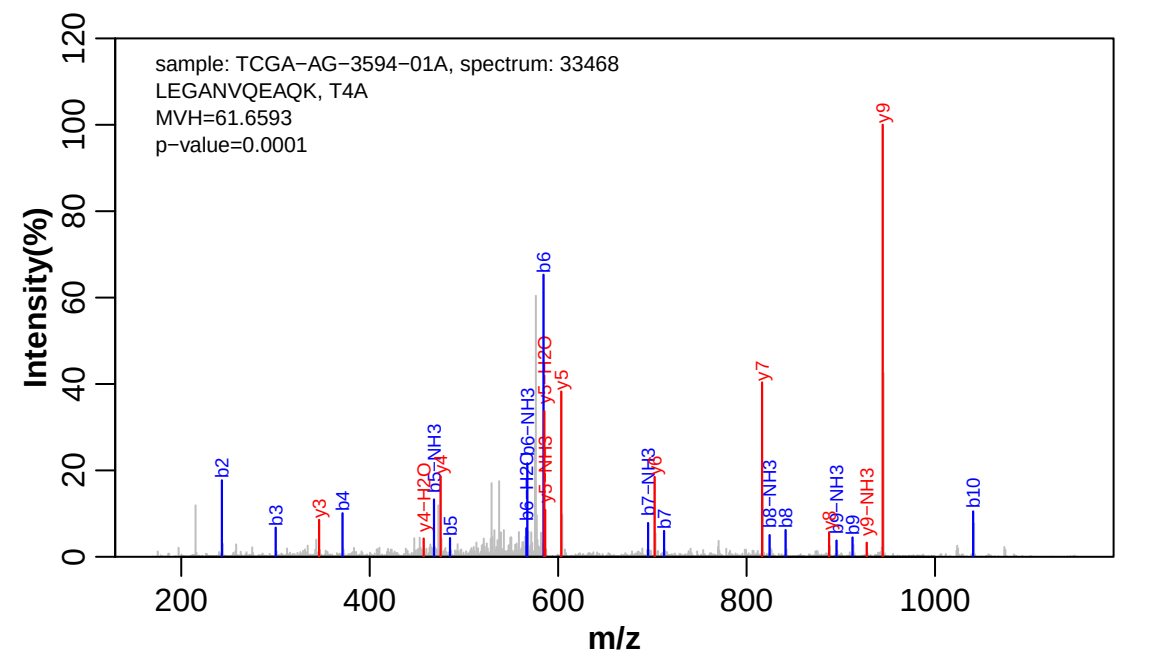

sample: TCGA−AG−3594−01A, spectrum: 17021
GFSLVADTPELQR, V4I
MVH=54.7446
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
b4−H2O
b4
y3
b5−NH3
b5−H2O
b5
b6−H2O
b6
y5
b7−H2O
b7
y6
b8−NH3
b8−H2O
b8
y7−NH3
y7−H2O
y7
y8−NH3
y8−H2O
y8
y9
b11
b12−NH3
b12

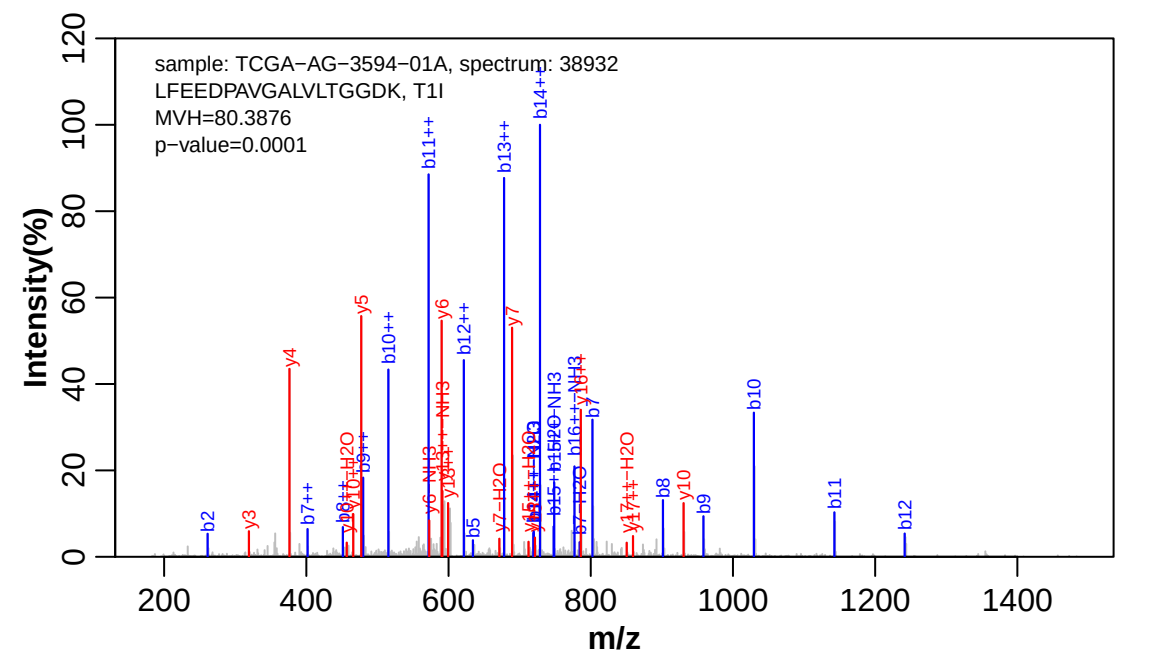

sample: TCGA−AG−3594−01A, spectrum: 7126
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y6
y3
y7
b6
y5
b7
b4
y2
b2
y1
b4−NH3
b5−H2O
b7−H2O
y6−H2O
y7−H2O
b8

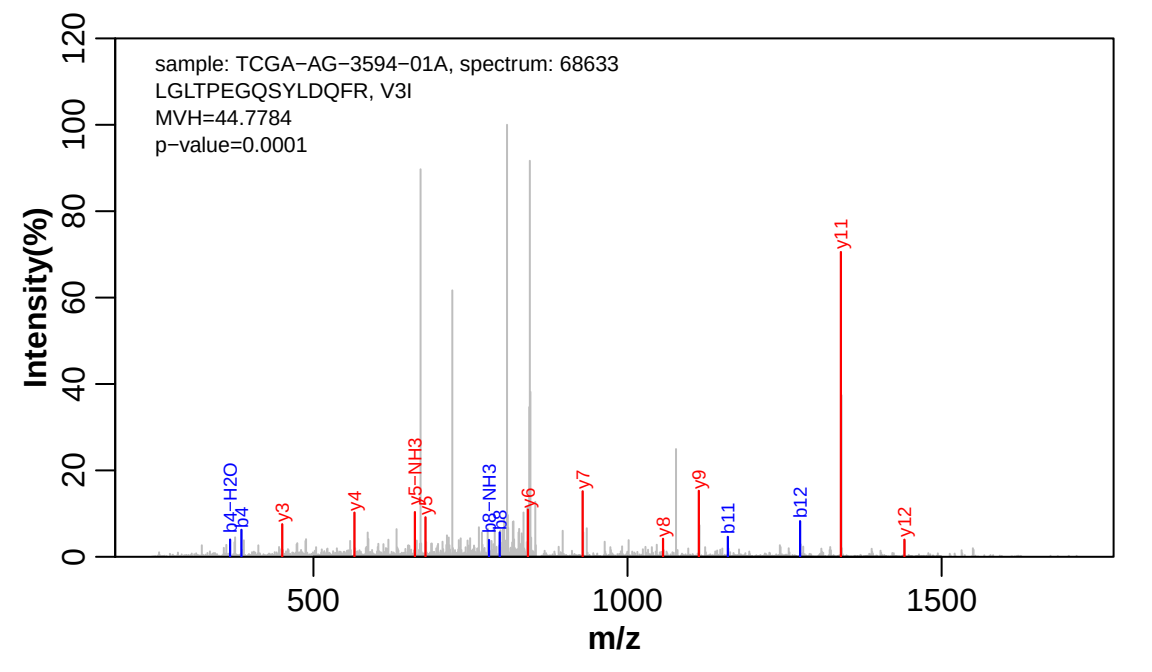

sample: TCGA−AG−3594−01A, spectrum: 49104
GQTGALLQNTVESLSK, D9N
MVH=70.0374
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y5
y4
y6
y12
y14
b10−NH3
b13−NH3
b15−H2O

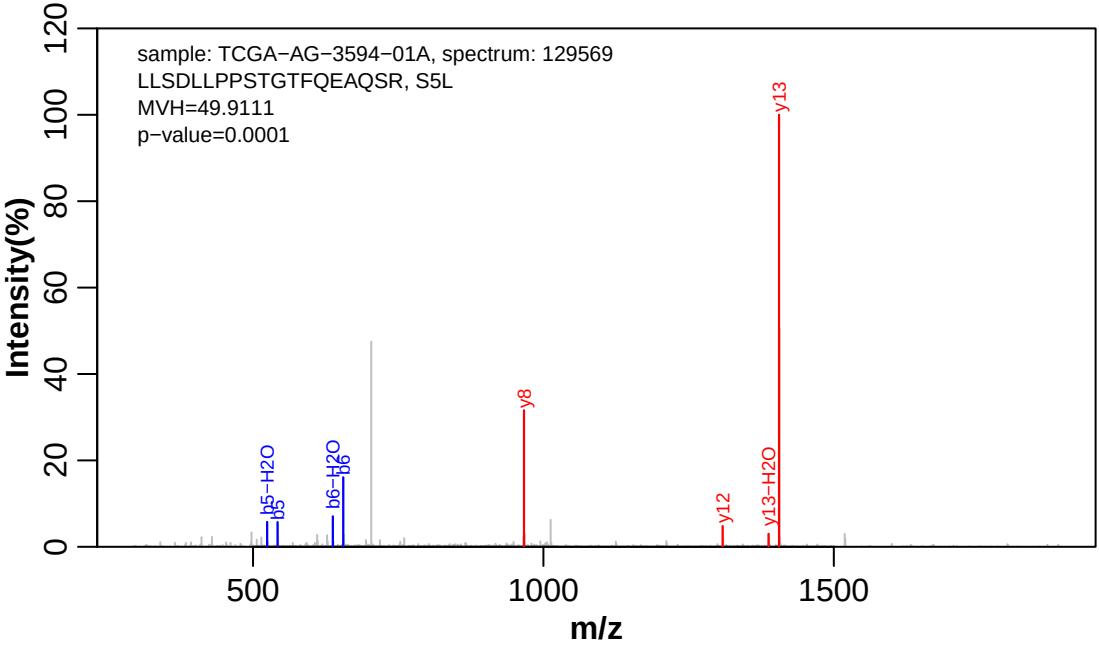

sample: TCGA−AG−3594−01A, spectrum: 26461
GVAGSSVAVLCPYNR, G5S
MVH=56.0654
p−value=0.0001
Intensity(%)
m/z
y5
y4
b9−H2O
b10−H2O
y6−H2O
b10
y8
b11−H2O
b11
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
y7
b11−NH3
y9
y10
b14

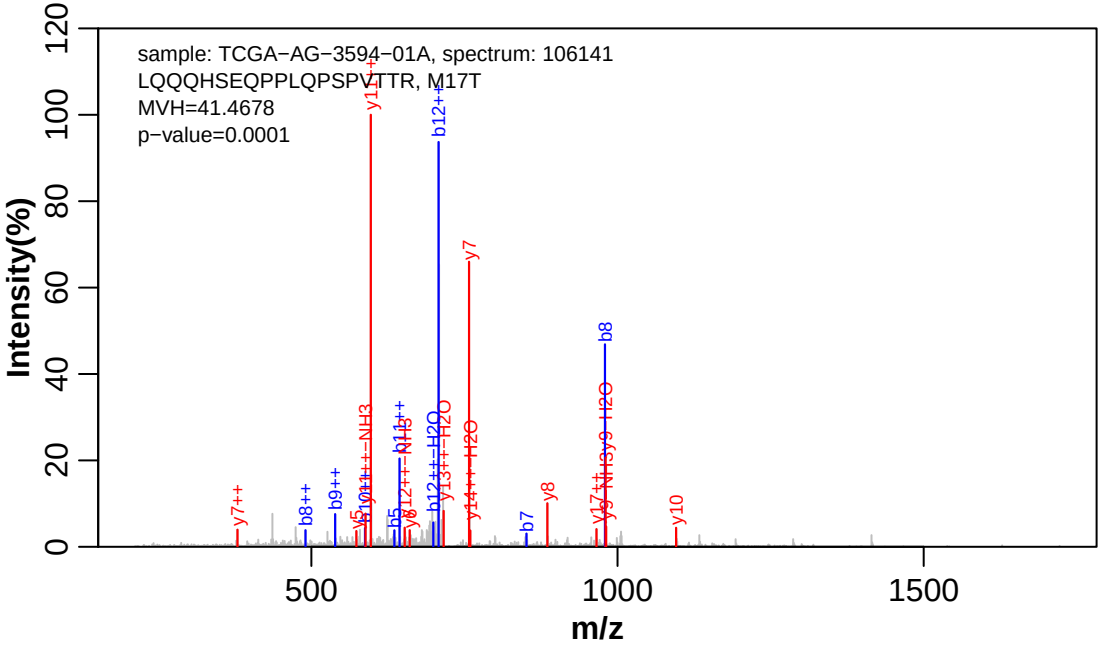

sample: TCGA−AG−3594−01A, spectrum: 108969
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=60.8059
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
b26++
b29++
b21++
b21++−H2O
b28++
y17++
y7
y10++
b11++
b12++
b13++
b14++
b10++−H2O
b10
y10

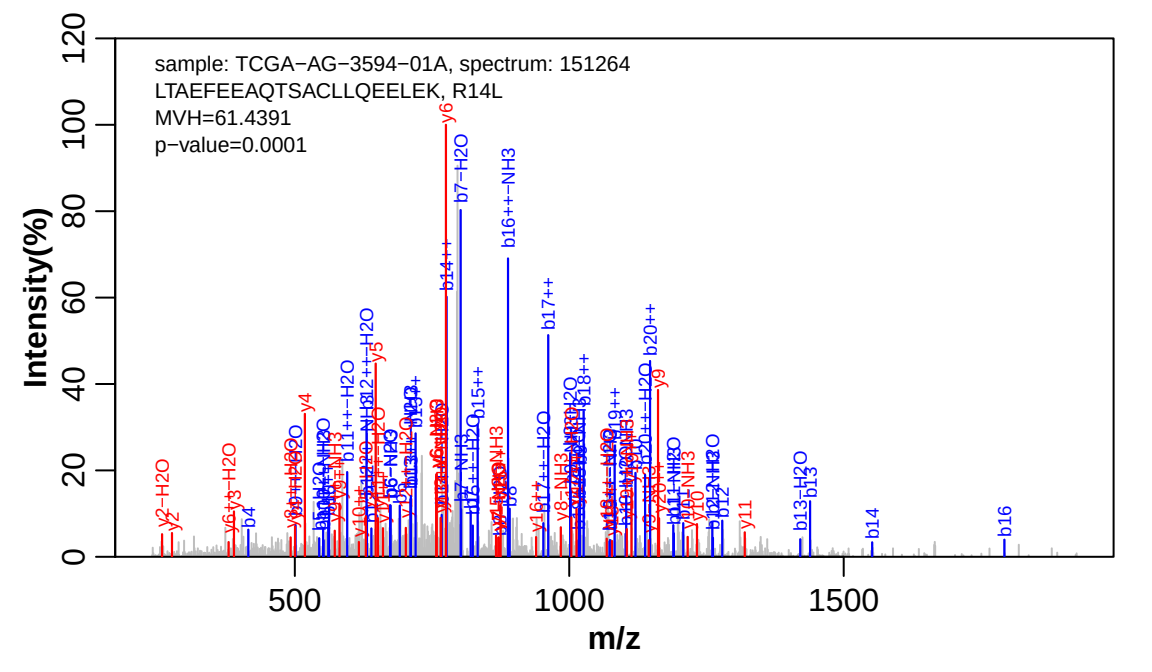

sample: TCGA−AG−3594−01A, spectrum: 33468
LEGANVQEAQK, T4A
MVH=61.6593
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
y3
b4
y4−H2O
y4−NH3
y4
b5
b6
b6−H2O
b6−NH3
y5−NH3
y5−H2O
y5
b7−NH3
y8
b7
y7
b8−NH3
b8
y8−NH3
b9
y9−NH3
y9
b10

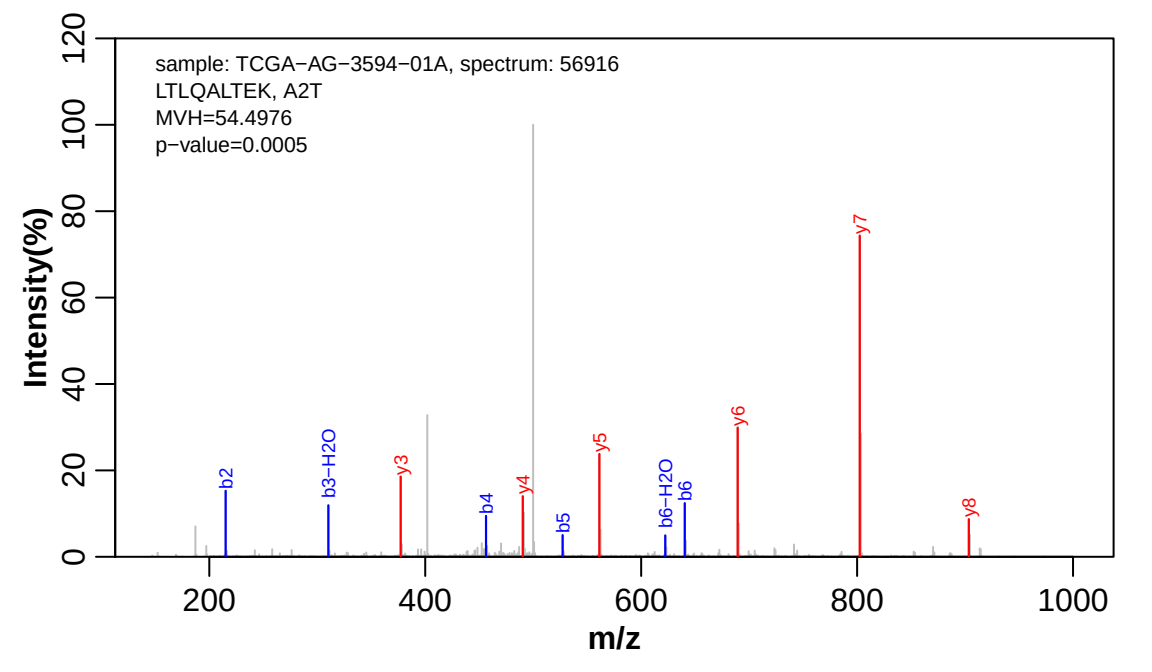

sample: TCGA−AG−3594−01A, spectrum: 38932
LFEEDPAVGALVLTGGDK, T1I
MVH=80.3876
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b7++
y4
y5
b10++
b9++
b11++
b12++
b5
b13++
y7
b14++
b7
b10
b8
y10
b9
b11
b12

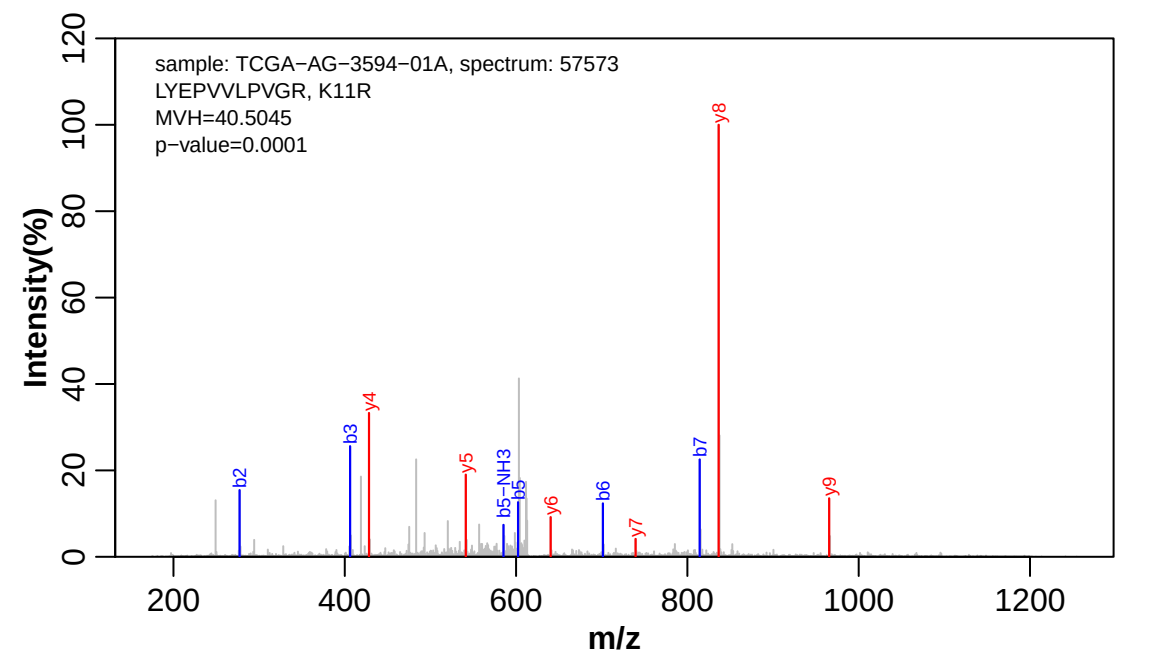

sample: TCGA−AG−3594−01A, spectrum: 68633
LGLTPEGQSYLDQFR, V3I
MVH=44.7784
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
y3
y4
y5−NH3
y5
b8−NH3
b8
y6
y7
y8
y9
b11
b12
y11
y12

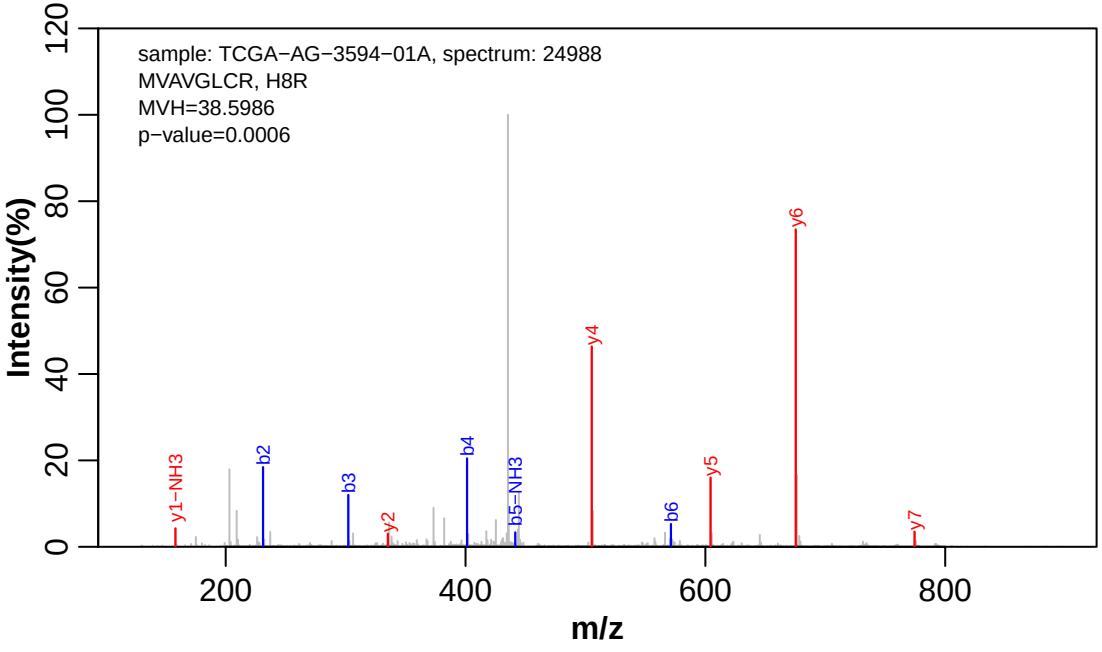

sample: TCGA−AG−3594−01A, spectrum: 129569
LLSDLLPPSTGTFQEAQSR, S5L
MVH=49.9111
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
b5
b6−H2O
b6
y8
y12
y13−H2O
y13

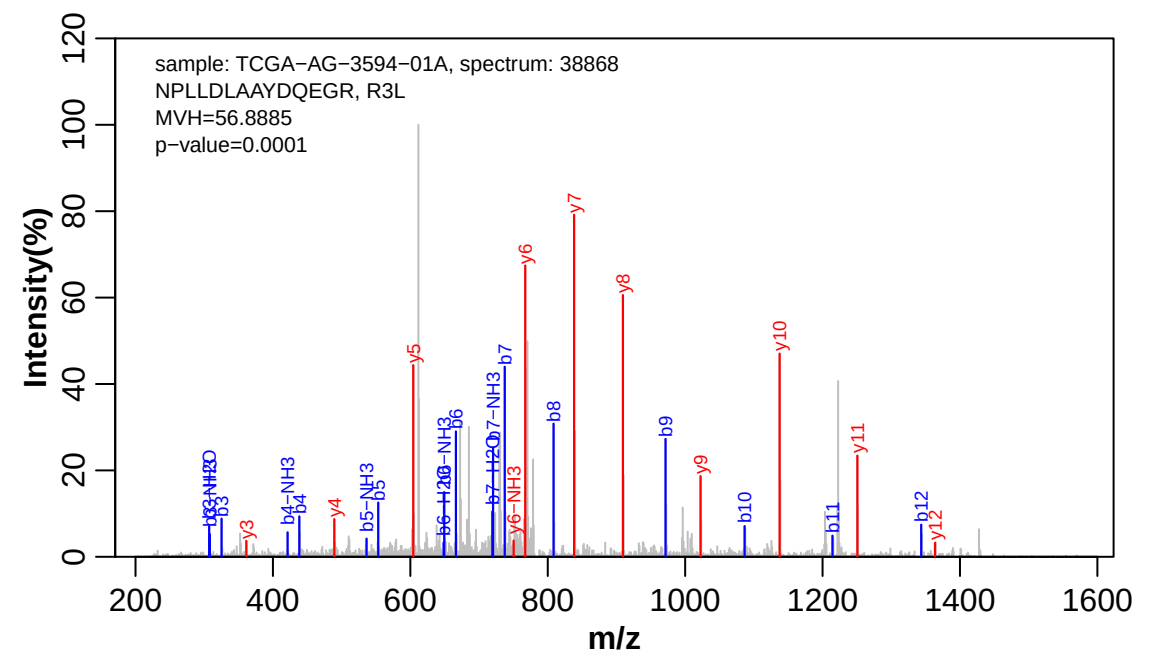

sample: TCGA−AG−3594−01A, spectrum: 106141
LQQQHSEQPPLQPSPVTTR, M17T
MVH=41.4678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b8++
b9++
y5++
b10++−NH3
y11++
b5
b11++
y8
b12++−NH3
b12++−H2O
b13++−H2O
b12++
y7
y14++−H2O
b7
y8
y7++
y9−NH3
y9−H2O
b8
y10

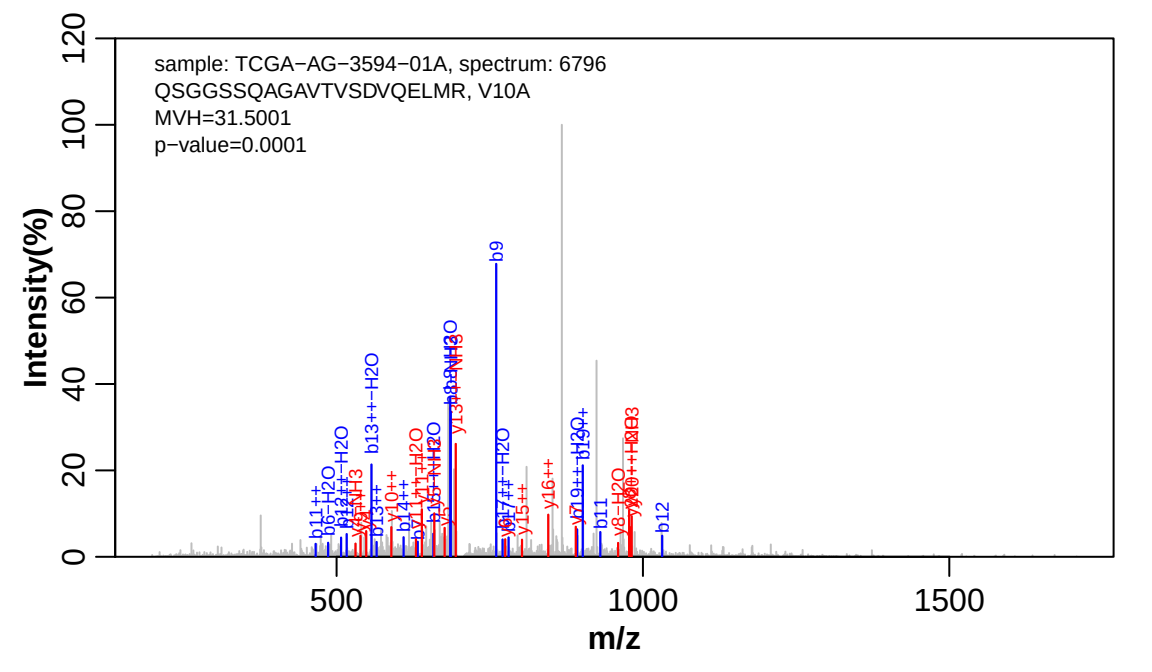

sample: TCGA−AG−3594−01A, spectrum: 151264
LTAEFEEAQTSACLLQEELEK, R14L
MVH=61.4391
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
b7−H2O
b16++−NH3
b14++
b17++
y2−H2O
y2
y6−H2O
y3−H2O
b4
y5
b15++
y9
b20++
b13−H2O
b13
b14
b16
y11

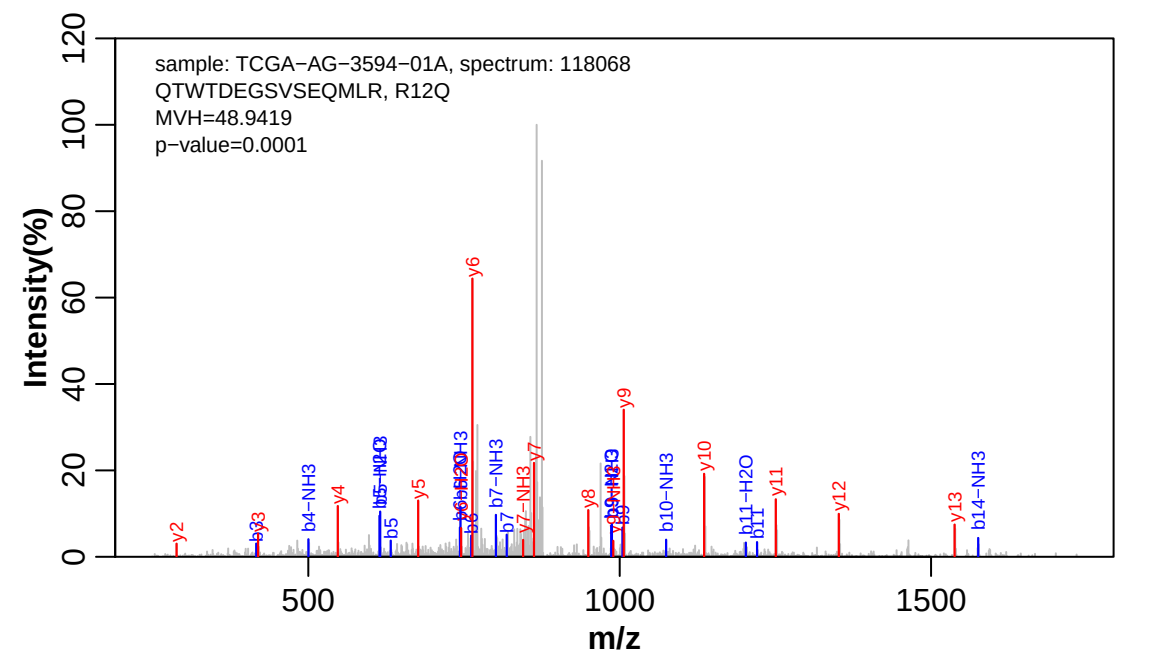

sample: TCGA−AG−3594−01A, spectrum: 56916
LTLQALTEK, A2T
MVH=54.4976
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
y8

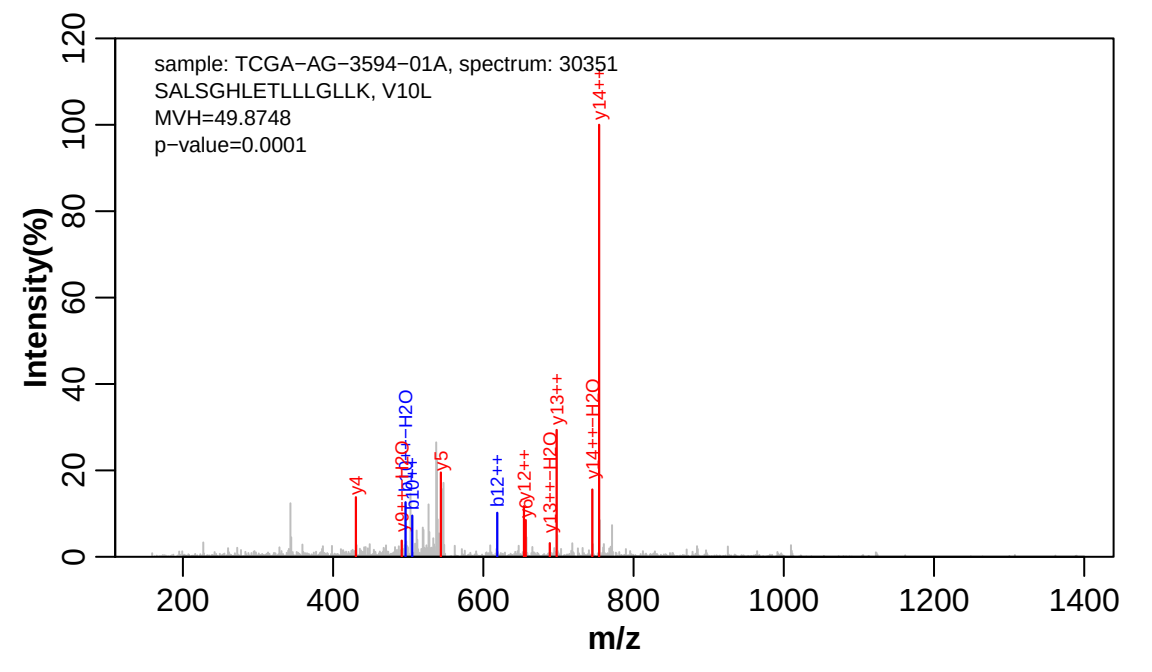

sample: TCGA−AG−3594−01A, spectrum: 57573
LYEPVVLPVGR, K11R
MVH=40.5045
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y4
y5
b5−NH3
b5
y6
b6
y7
b7
y8
y9

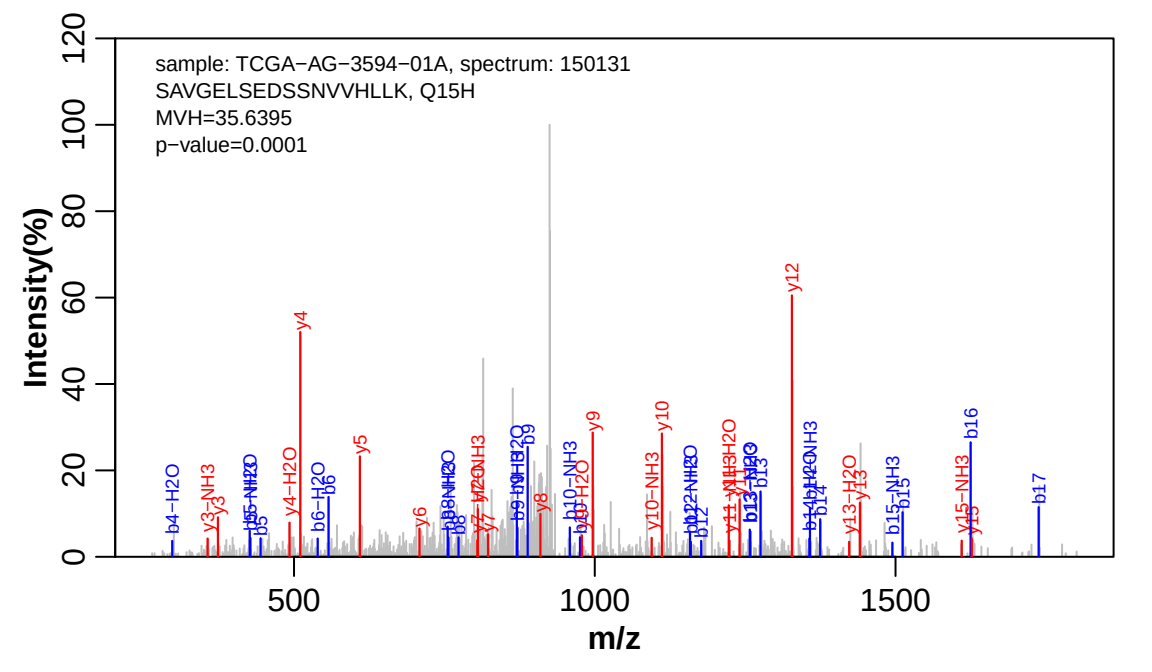

sample: TCGA−AG−3594−01A, spectrum: 24988
MVAVGLCR, H8R
MVH=38.5986
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
b5−NH3
y4
b6
y5
y6
y7

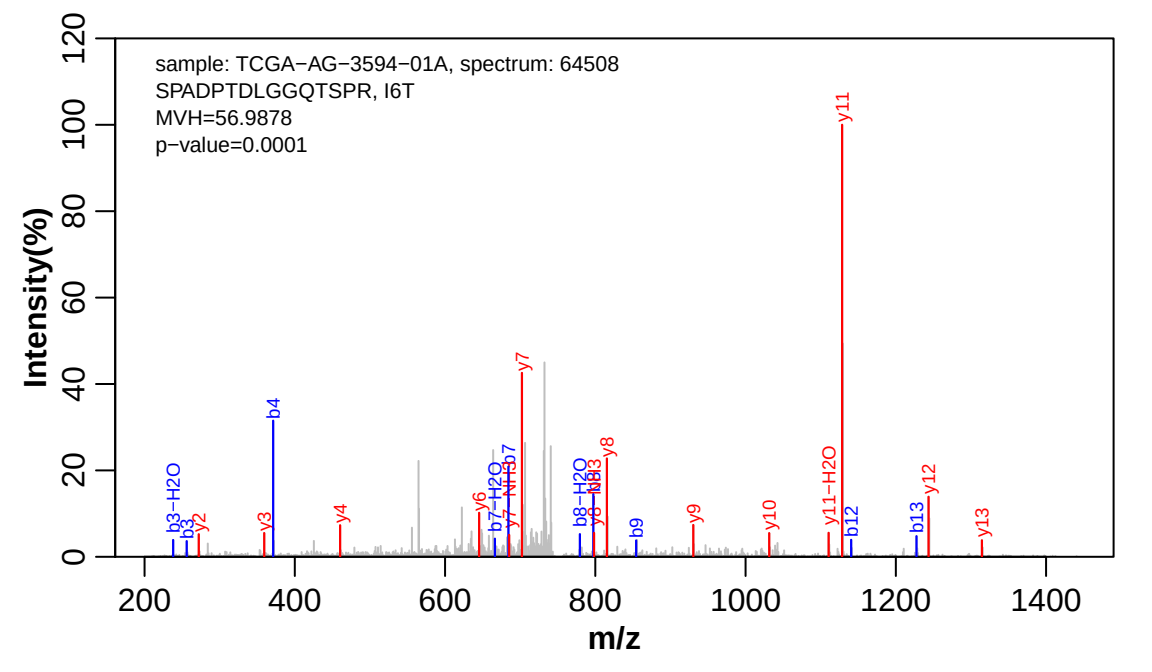

sample: TCGA−AG−3594−01A, spectrum: 38868
NPLLDLAAYDQEGR, R3L
MVH=56.8885
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b3
b3−NH3
b3−H2O
b4
b4−NH3
y4
b5
b5−NH3
y5
b6
b6−H2O
b6−NH3
b7
b7−H2O
b7−NH3
y6
y6−NH3
b8
y7
y8
b9
y9
b10
y10
b11
y11
b12
y12

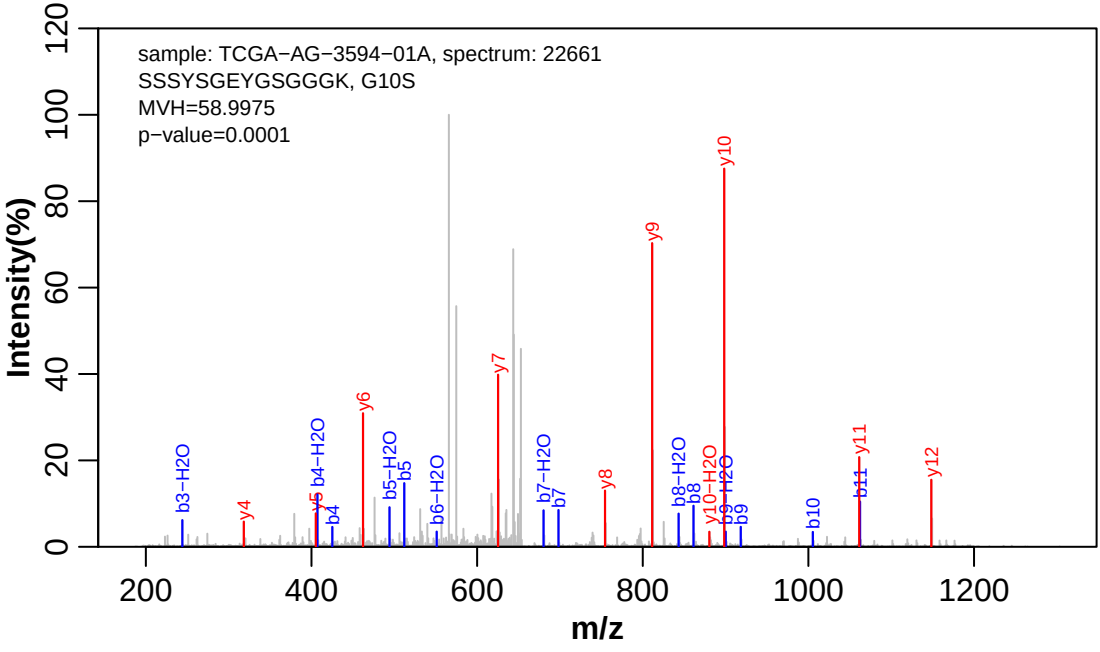

sample: TCGA−AG−3594−01A, spectrum: 6796
QSGGSSQAGAVTVSDVQELMR, V10A
MVH=31.5001
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b9
b13++−H2O
b11++
b6−H2O
b12++−H2O
b13++
b10++
b12++
y16++
y15++
b11
b12

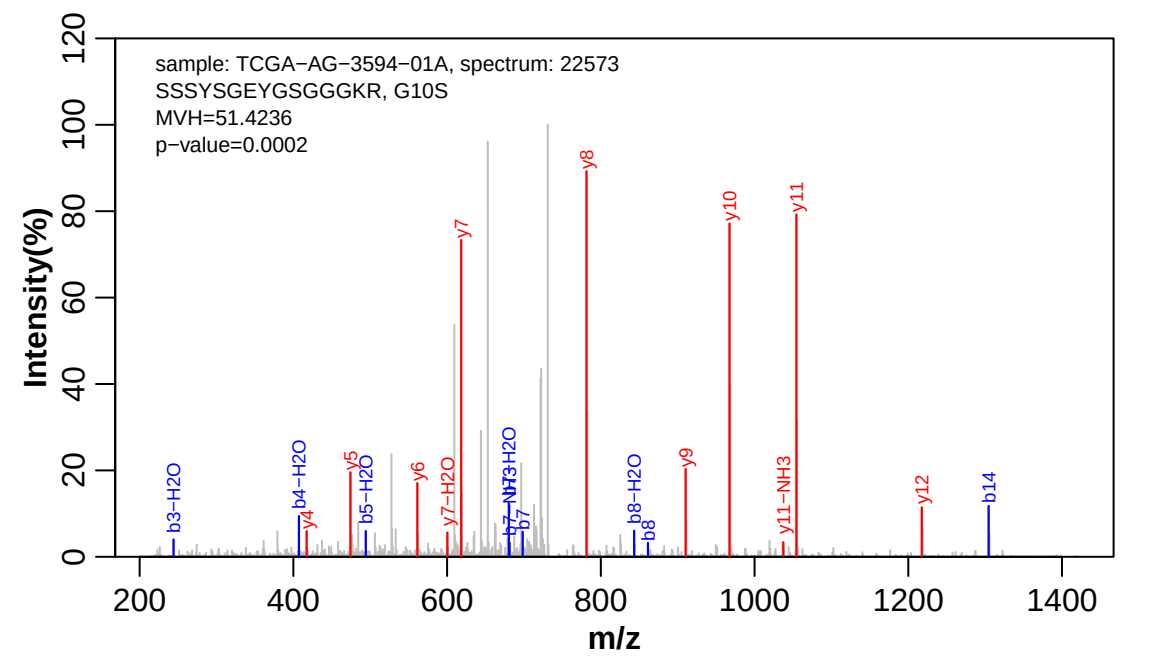

sample: TCGA−AG−3594−01A, spectrum: 118068
QTWTDEGSVSEQMLR, R12Q
MVH=48.9419
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
b4−NH3
y4
b5
y5
y6
b7−NH3
y7−NH3
y7
y8
y9
b10−NH3
y10
b11−H2O
y11
y12
y13
b14−NH3

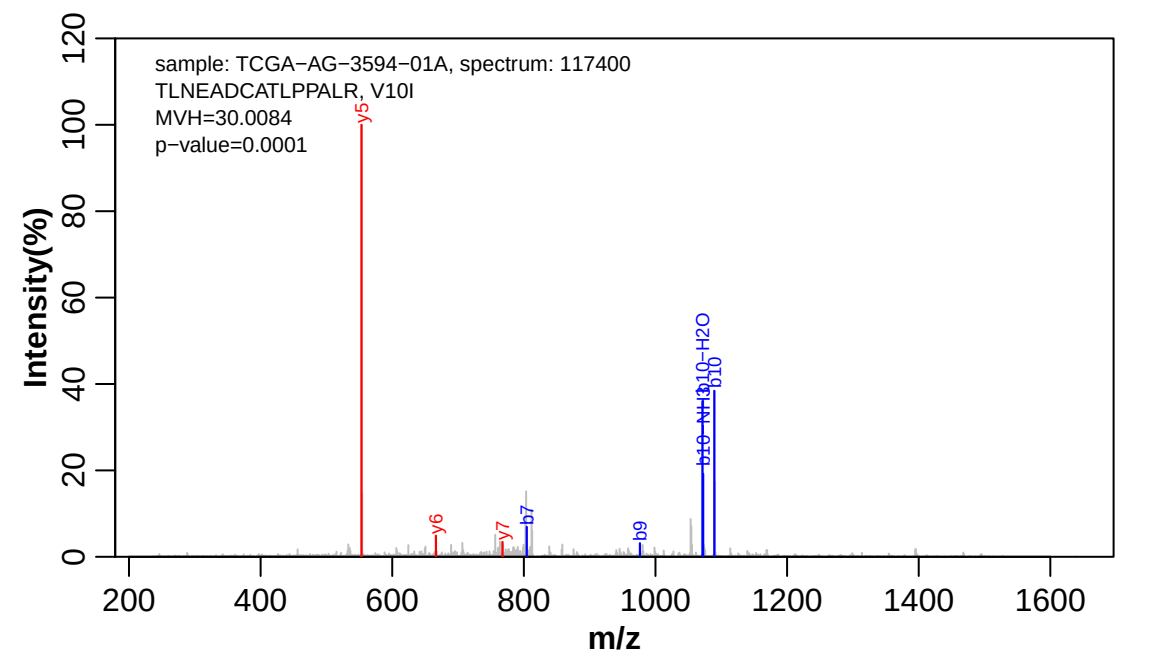

sample: TCGA−AG−3594−01A, spectrum: 30351
SALSGHLETLLLGLLK, V10L
MVH=49.8748
p−value=0.0001
Intensity(%)
m/z
y14++
y14++−H2O
y13++
y13++−H2O
y12++
y6
b12++
y5
b10++
y9++−H2O
y9++
y4

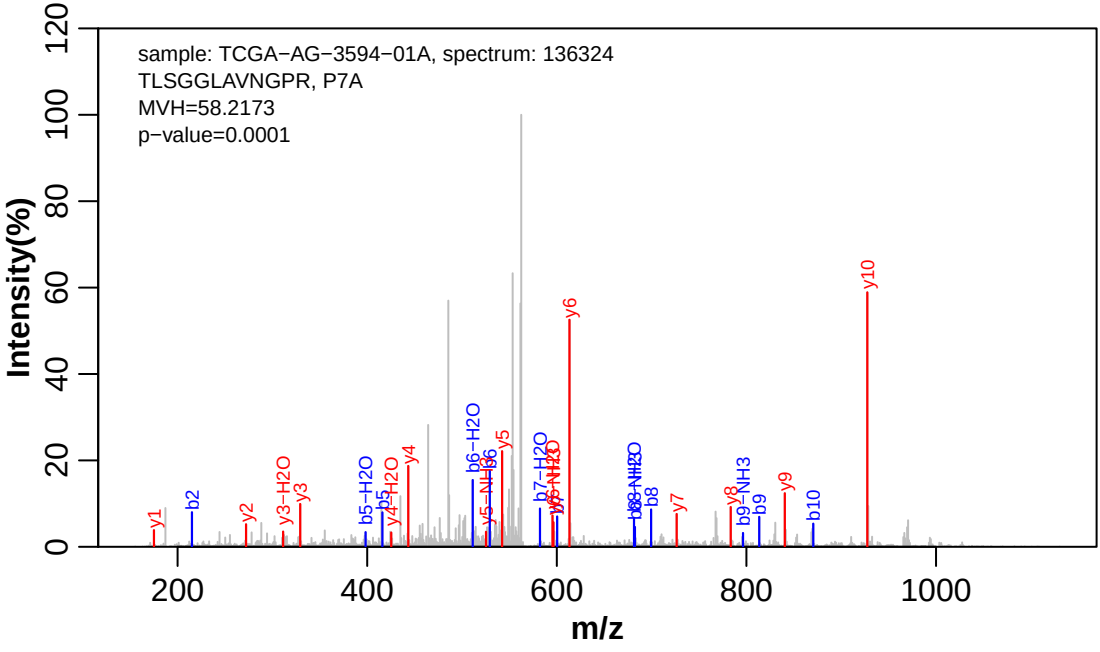

sample: TCGA−AG−3594−01A, spectrum: 150131
SAVGELSEDSSNVVHLLK, Q15H
MVH=35.6395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−H2O
y3−NH3
y3
y4
y4−H2O
b6−H2O
b6
y5
y6
y7
y8
y9
b10−NH3
y10
y10−NH3
y11
y12
y13−H2O
y13
b15−NH3
b15
y15−NH3
b16
b17

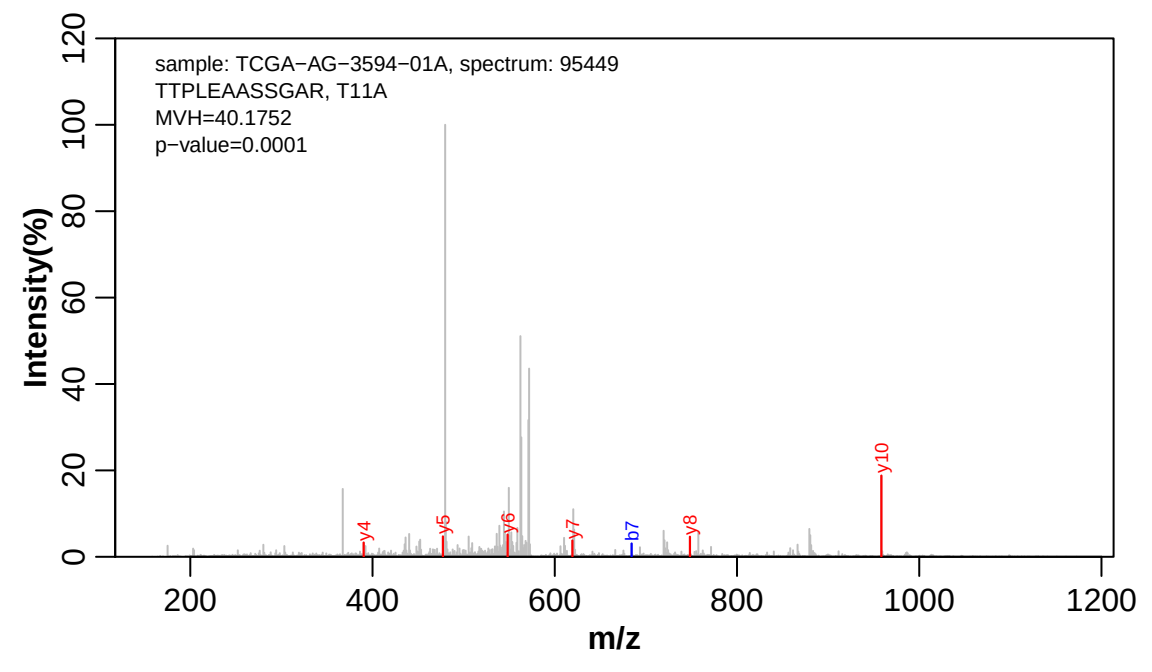

sample: TCGA−AG−3594−01A, spectrum: 64508
SPADPTDLGGQTSPR, I6T
MVH=56.9878
p−value=0.0001
Intensity(%)
m/z
b3−H2O
b3
y2
y3
b4
y4
y6
b7−H2O
y7−NH3
b7
y7
b8−H2O
y8
b8
y8−NH3
b9
y9
y10
y11−H2O
b12
y11
b13
y12
y13

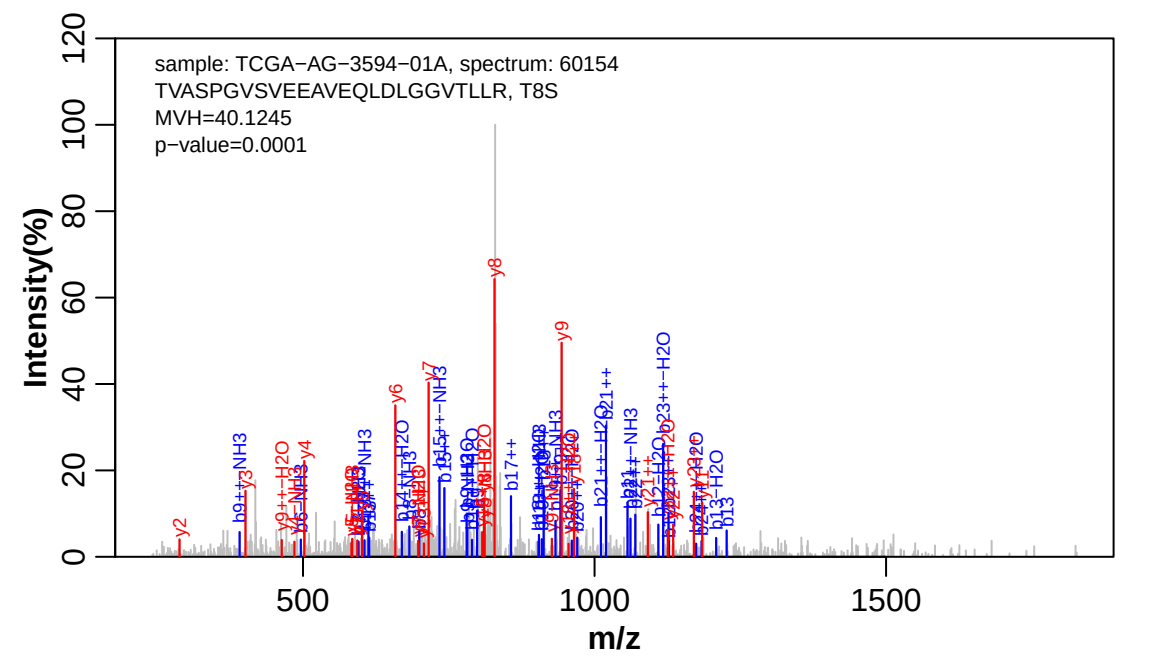

sample: TCGA−AG−3594−01A, spectrum: 22661
SSSYSGEYGSGGGK, G10S
MVH=58.9975
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
b6−H2O
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
y10−H2O
b9−H2O
b9
b10
y11
b11
y12

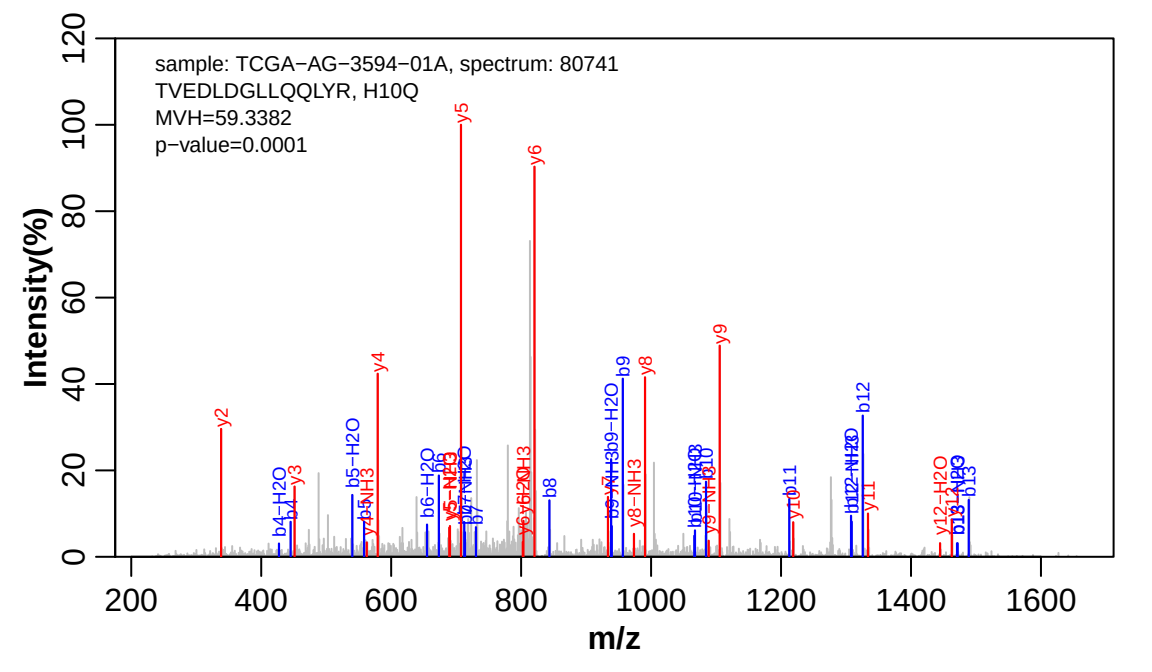

sample: TCGA−AG−3594−01A, spectrum: 22573
SSSYSGEYGSGGGKR, G10S
MVH=51.4236
p−value=0.0002
Intensity(%)
m/z
b3−H2O
y4
b4−H2O
y5
b5−H2O
y6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−H2O
b8
y9
y10
y11
y11−NH3
y12
b14

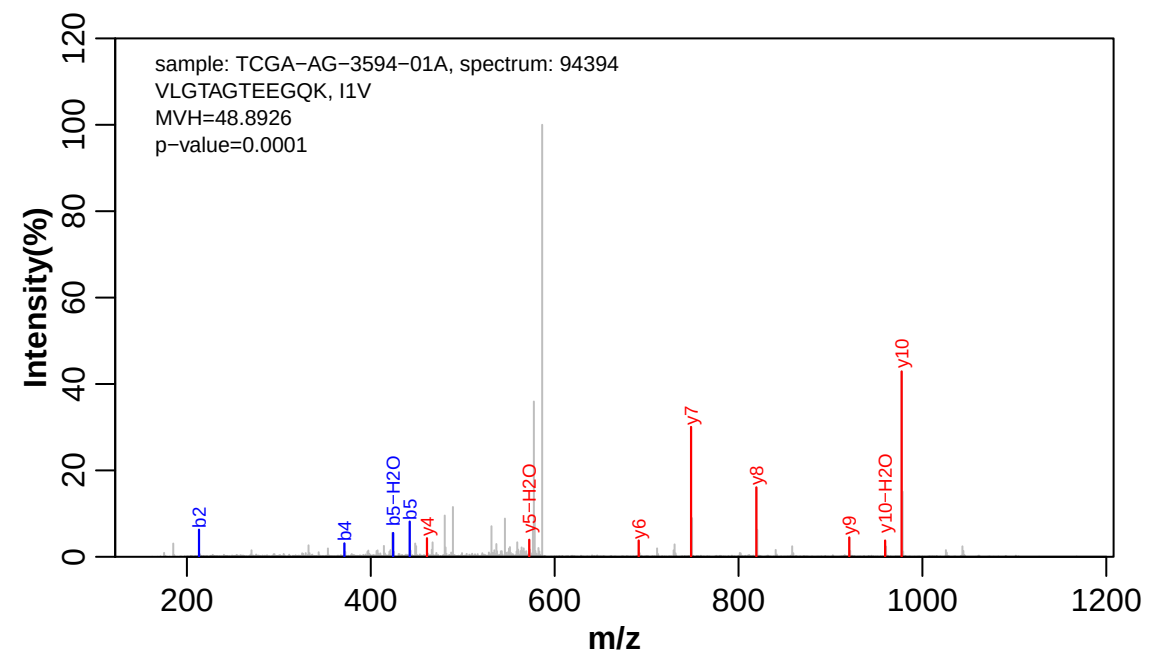

sample: TCGA−AG−3594−01A, spectrum: 117400
TLNEADCATLPPALR, V10I
MVH=30.0084
p−value=0.0001
y5
y6
y7
b7
b9
b10−NH3
b10−H2O
b10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

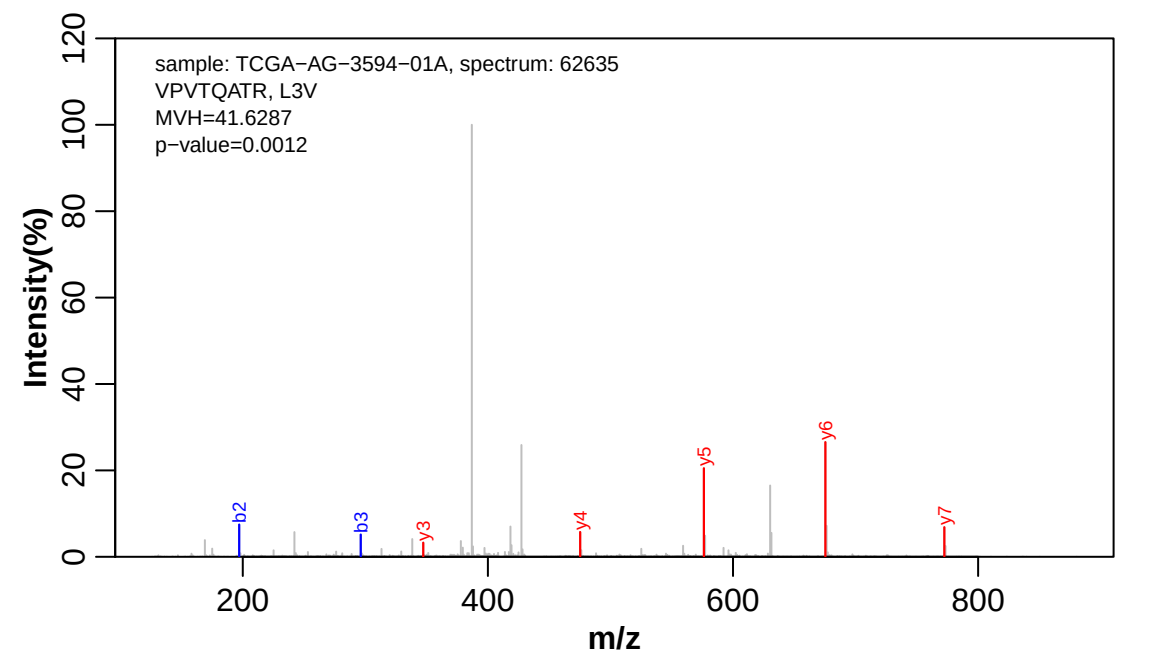

sample: TCGA−AG−3594−01A, spectrum: 136324
TLSGGLAVNGPR, P7A
MVH=58.2173
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
y3−H2O
y3
b5−H2O
b5
y4−H2O
y4
b6−H2O
y5−NH3
y5
b7−H2O
b7−NH3
y6
b8−NH3
b8
y7
y8
b9−NH3
b9
y9
b10
y10

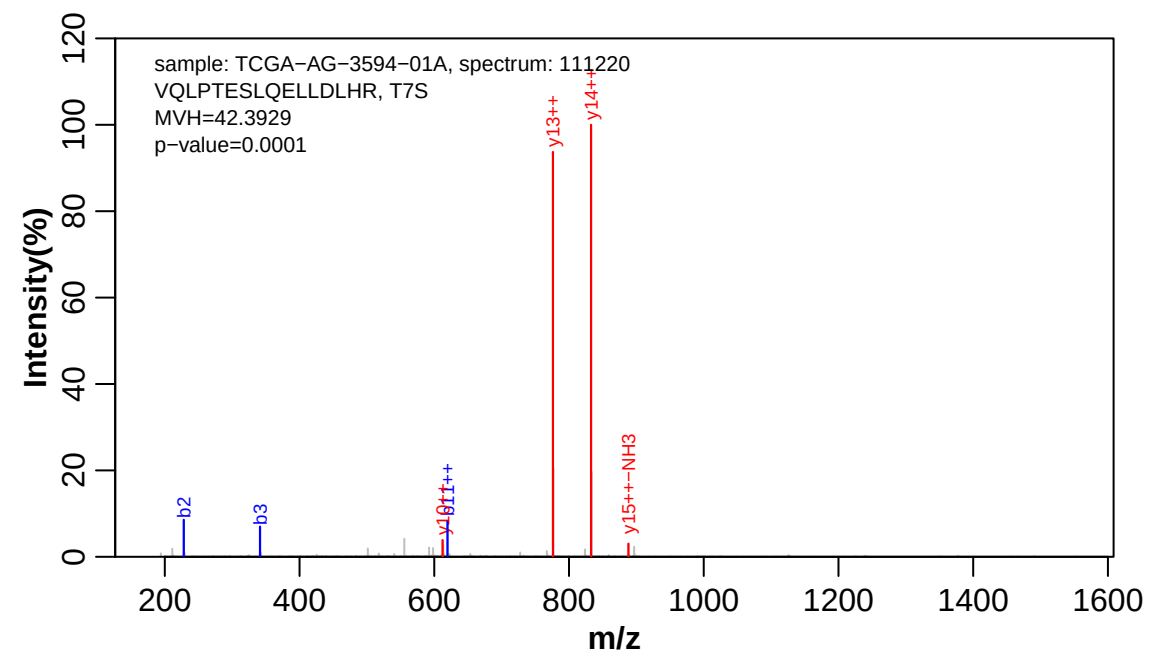

sample: TCGA−AG−3594−01A, spectrum: 95449
TTPLEAASSGAR, T11A
MVH=40.1752
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y4
y5
y6
y7
b7
y8
y10

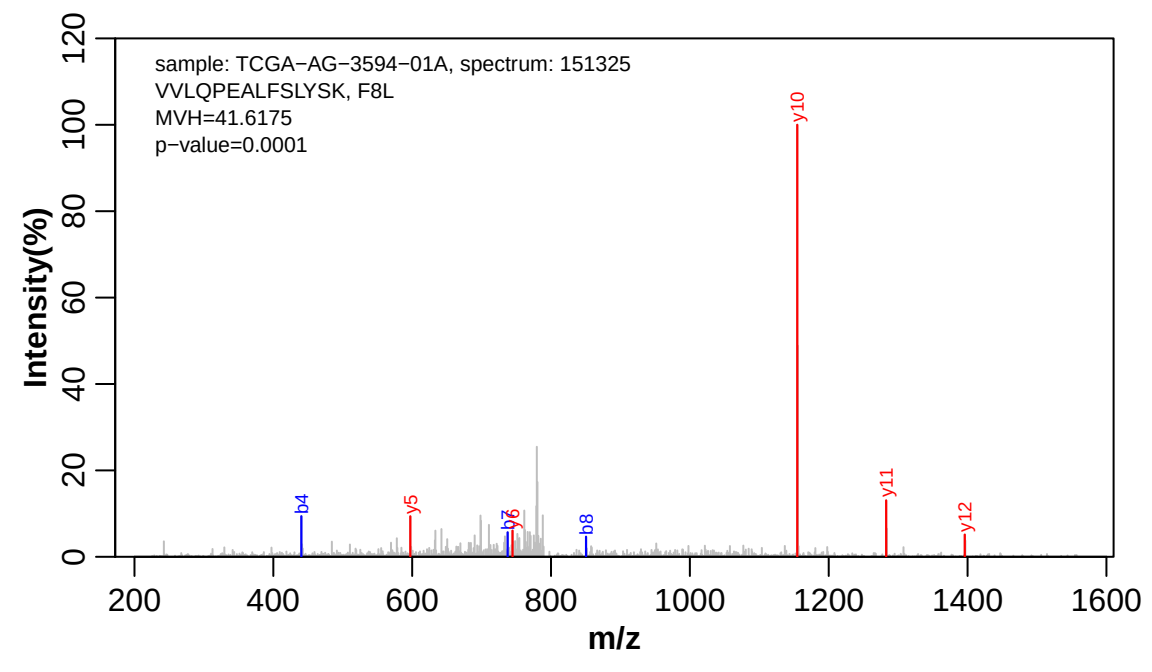

sample: TCGA−AG−3594−01A, spectrum: 60154
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=40.1245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y7
y6
y2
y3
y4
b9++−NH3
b17++
b21++
b21++−H2O
b21++−NH3
b13−H2O
b13

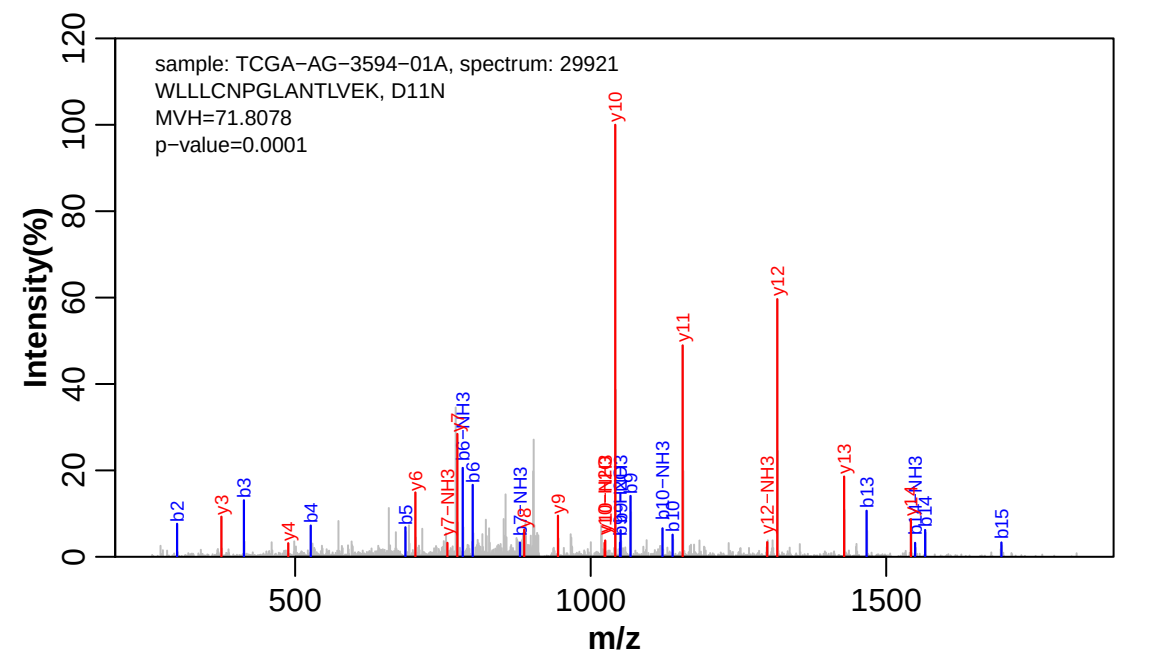

sample: TCGA−AG−3594−01A, spectrum: 80741
TVEDLDGLLQQLYR, H10Q
MVH=59.3382
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4−H2O
b4
y4
b5−H2O
b5−NH3
y5
y5−NH3
b6−H2O
b6
b7
y6
y6−H2O
y6−NH3
b8
y7
b9−NH3
b9−H2O
b9
y8
y8−NH3
y9
y9−NH3
y10
b11
b12
y11
y12−H2O
y12
b13

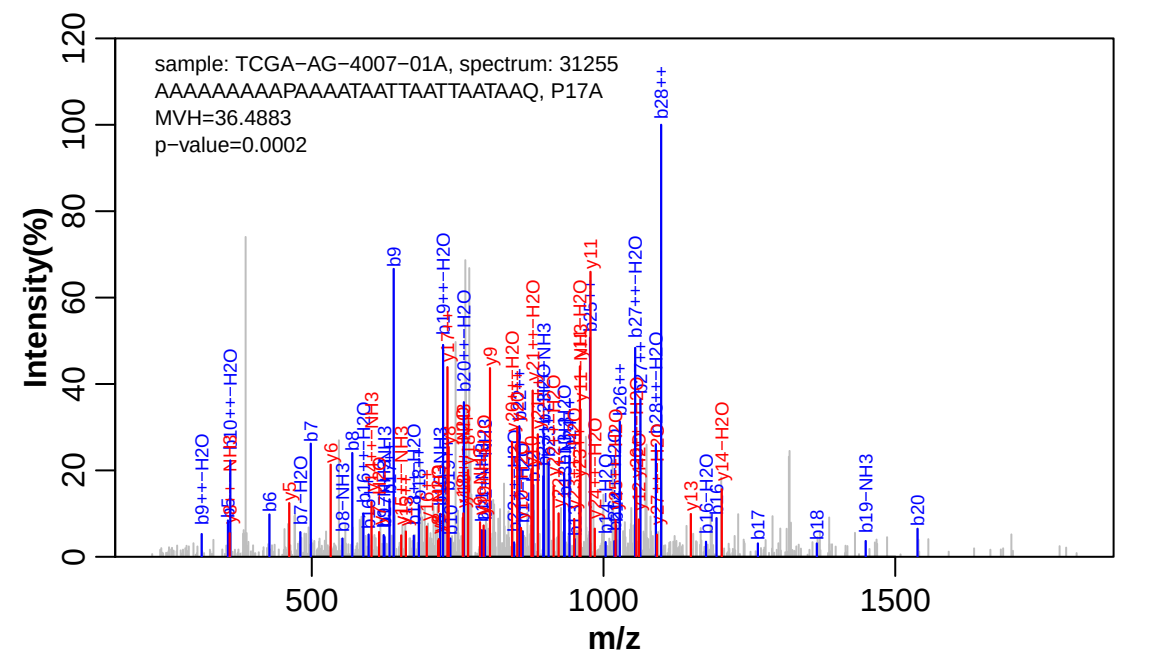

sample: TCGA−AG−3594−01A, spectrum: 94394
VLGTAGTEEGQK, I1V
MVH=48.8926
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4
b5−H2O
b5
y4
y5−H2O
y6
y7
y8
y9
y10−H2O
y10

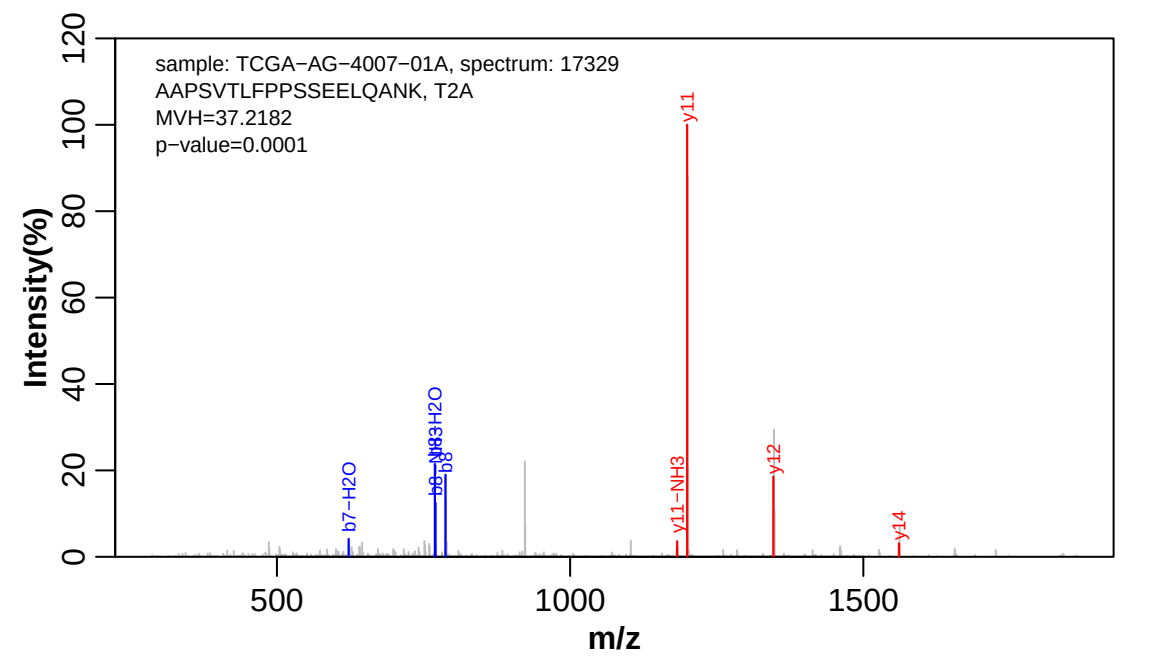

sample: TCGA−AG−3594−01A, spectrum: 62635
VPVTQATR, L3V
MVH=41.6287
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

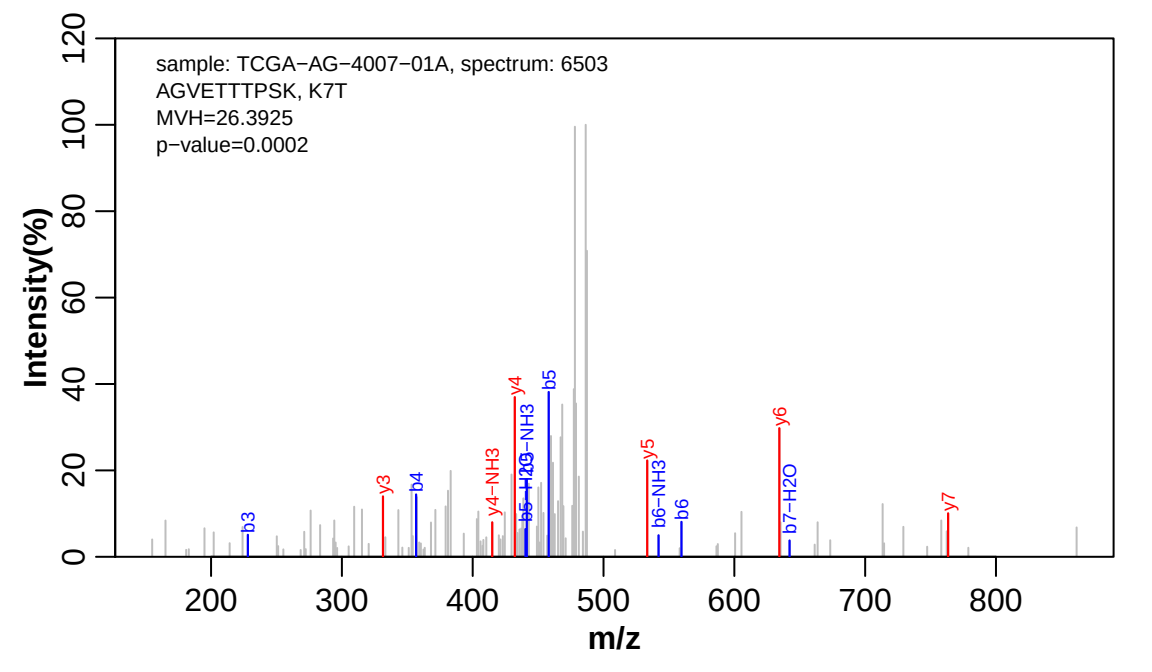

sample: TCGA−AG−3594−01A, spectrum: 111220
VQLPTESLQELLDLHR, T7S
MVH=42.3929
p−value=0.0001
y13++
y14++
b2
b3
y10++
y11++
y15++−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

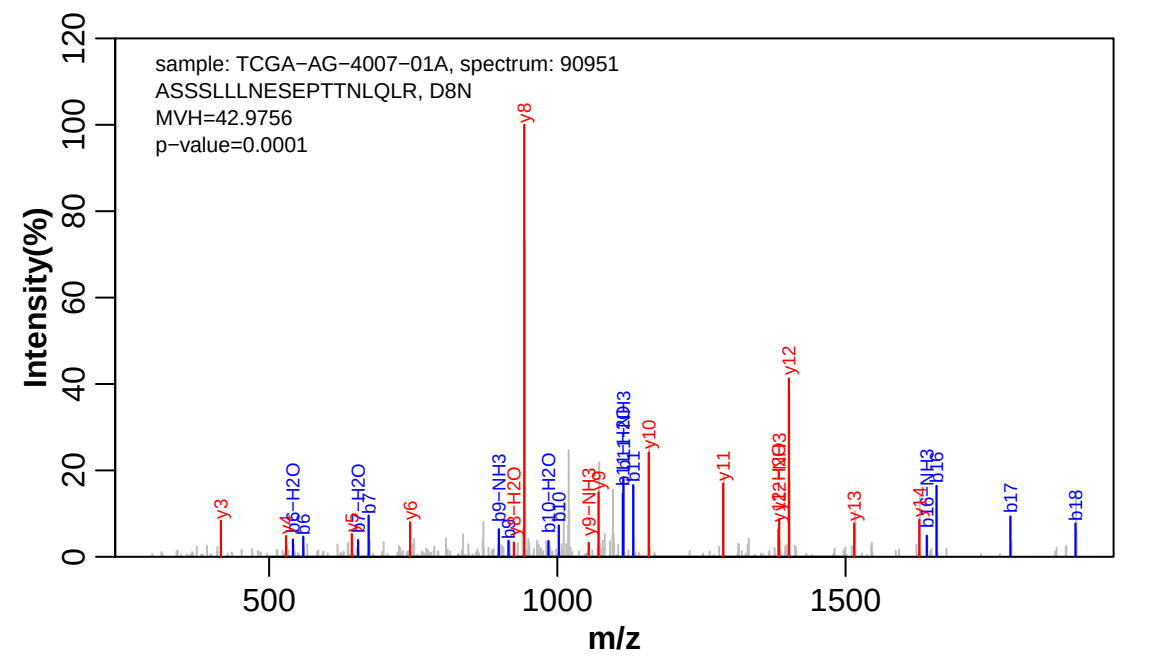

sample: TCGA−AG−3594−01A, spectrum: 151325
VVLQPEALFSLYSK, F8L
MVH=41.6175
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b4
y5
b7
y6
b8
y10
y11
y12

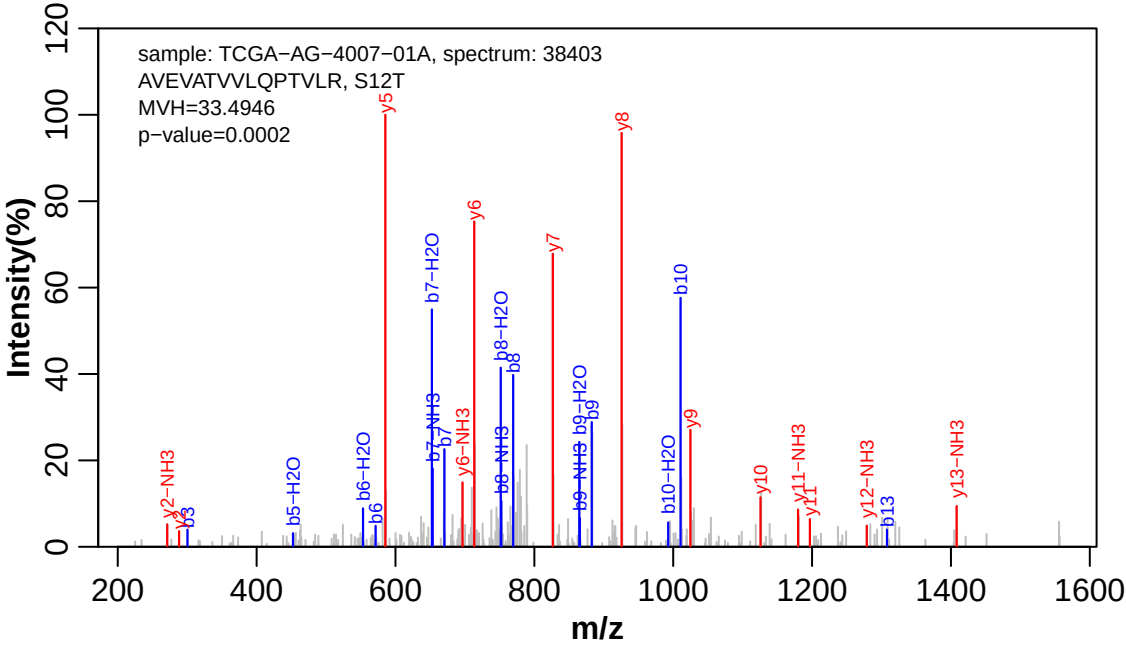

sample: TCGA−AG−3594−01A, spectrum: 29921
WLLLCNPGLANTLVEK, D11N
MVH=71.8078
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b3
y4
b4
b5
y6
y7−NH3
b6−NH3
b6
y7
b7−NH3
b8
y9
y10−NH3
y10
b9
b10−NH3
b10
y11
y12−NH3
y12
y13
b13
b14
b15

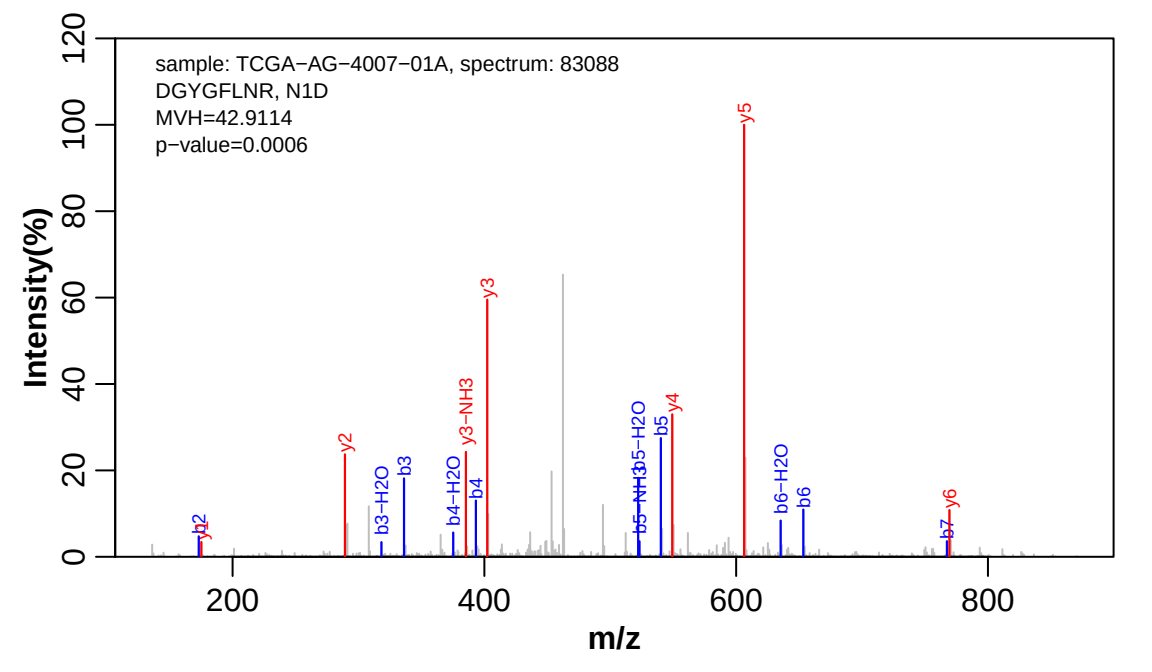

sample: TCGA−AG−4007−01A, spectrum: 31255
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=36.4883
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9++−H2O
b10++−H2O
b6
b7
b7−H2O
y6
b8−NH3
b8
b9
b19++−H2O
b20++−H2O
y9
b27++−H2O
y11
b28++
y13
y14−H2O
b16
b17
b18
b19−NH3
b20

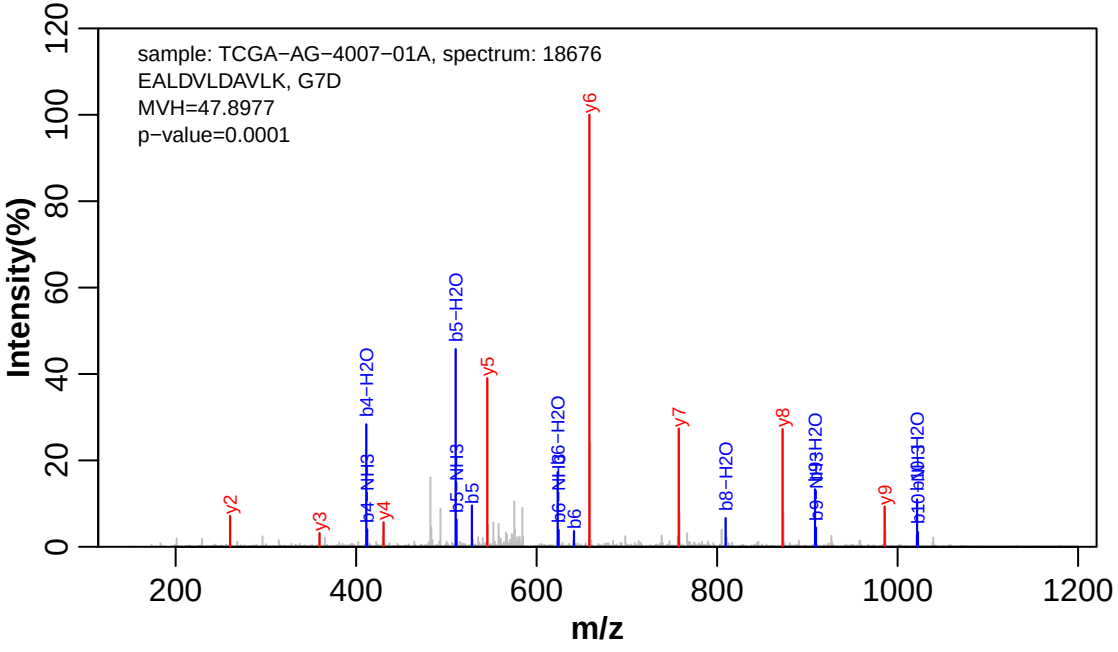

sample: TCGA−AG−4007−01A, spectrum: 17329
AAPSVTLFPPSSEELQANK, T2A
MVH=37.2182
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7−H2O
b8−NH3
b8−H2O
b8
y11
y11−NH3
y12
y14

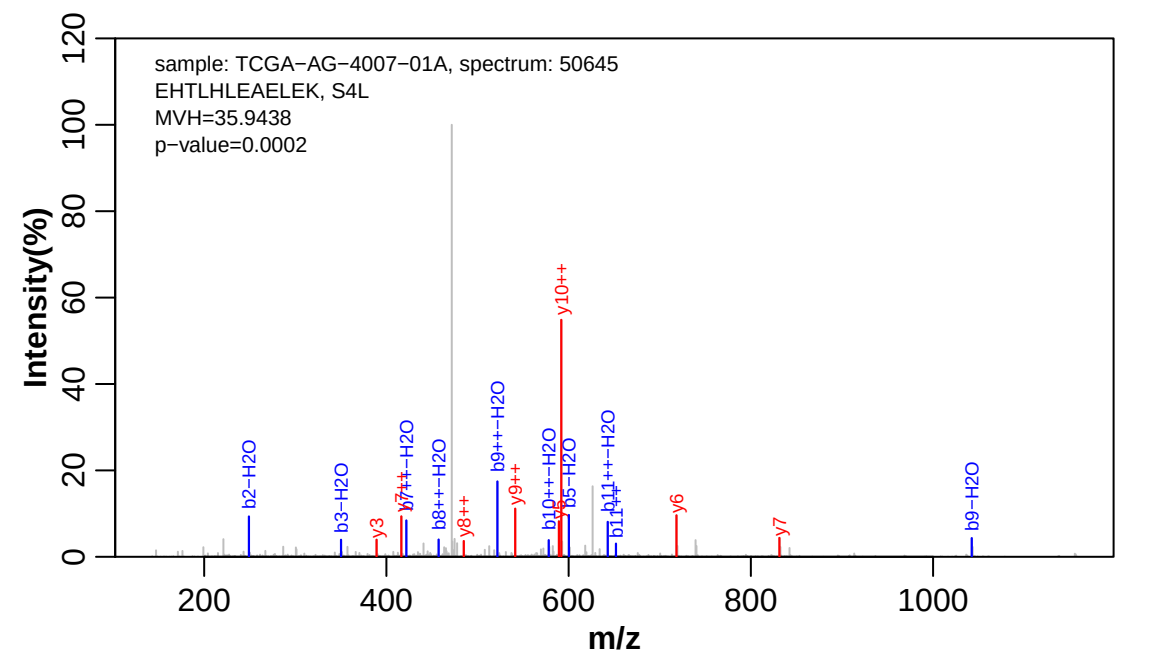

sample: TCGA−AG−4007−01A, spectrum: 6503
AGVETTTPSK, K7T
MVH=26.3925
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
800
m/z
b3
y3
b4
y4−NH3
y4
b6−NH3
b5
y5
b6−NH3
b6
y6
b7−H2O
y7

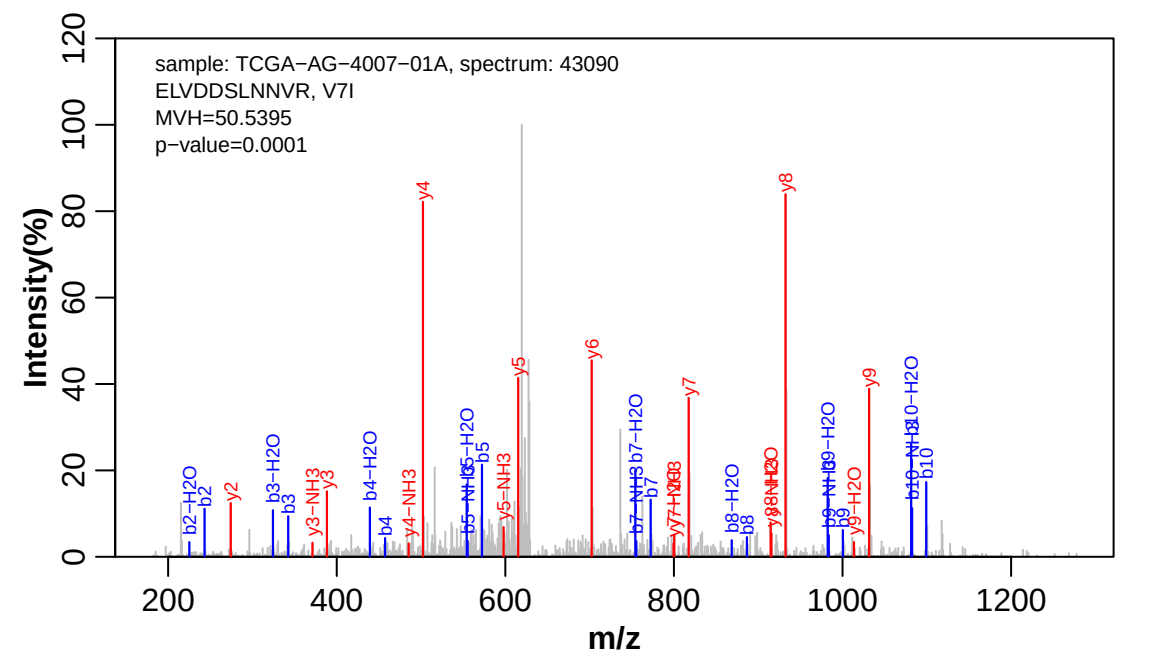

sample: TCGA−AG−4007−01A, spectrum: 90951
ASSSLLLNESEPTTNLQLR, D8N
MVH=42.9756
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y12
y10
y11
y13
b17
b18
y3
y6−H2O
b6
b7−H2O
y6
b9−NH3
b8−H2O
b10−H2O
y9−NH3
y9
b11
y14
b16−NH3
b18

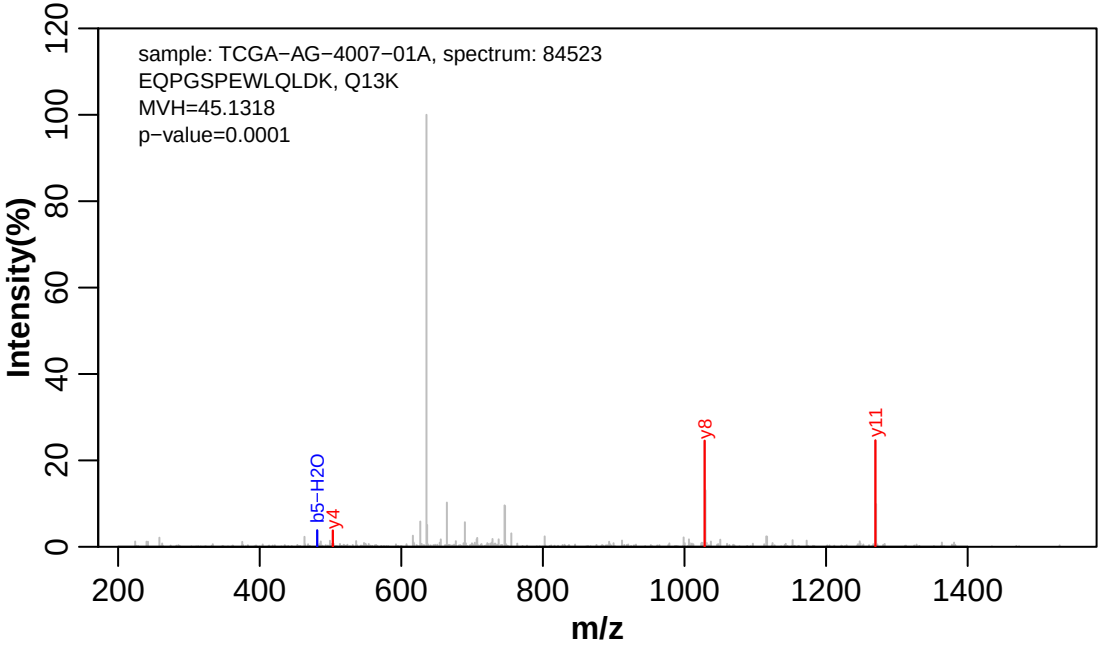

sample: TCGA−AG−4007−01A, spectrum: 38403
AVEVATVVLQPTVLR, S12T
MVH=33.4946
p−value=0.0002
Intensity(%)
m/z
y5
y8
y6
y7
b10
b7−H2O
b8−H2O
b8
b7
b7−NH3
y6−NH3
b8−NH3
b9−H2O
b9
b9−NH3
y9
b10−H2O
y10
y11−NH3
y11
y12−NH3
b13
y13−NH3
y2−NH3
y2
b3
b5−H2O
b6−H2O
b6

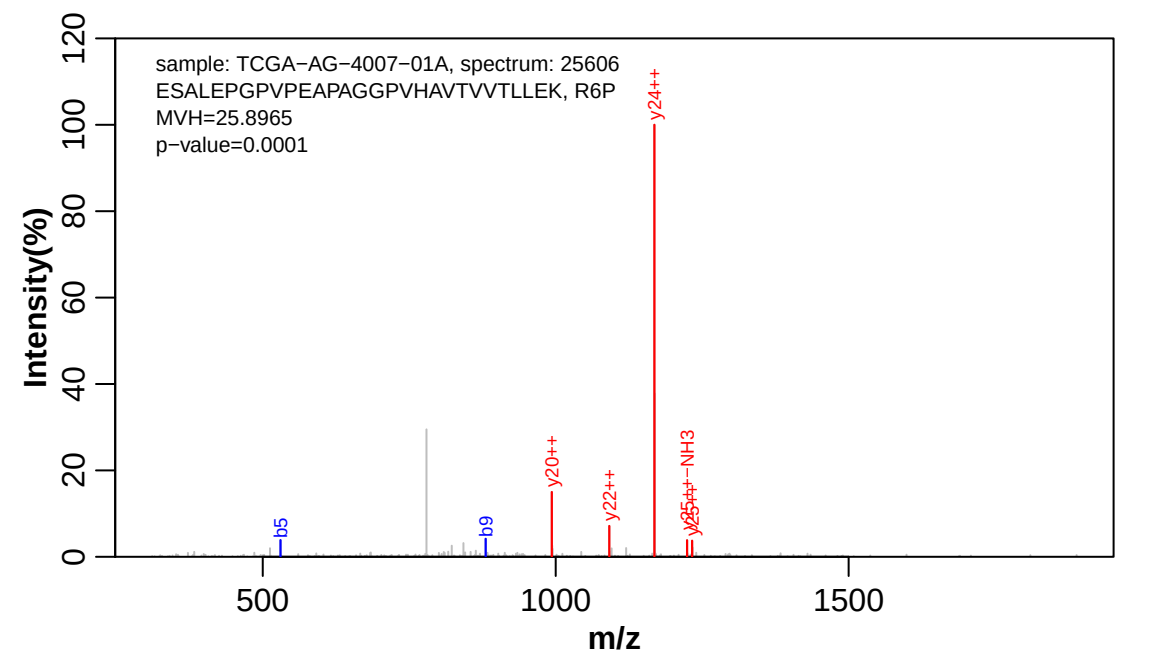

sample: TCGA−AG−4007−01A, spectrum: 83088
DGYGFLNR, N1D
MVH=42.9114
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y3−NH3
y2
y4
b5
b5−H2O
b5−NH3
b3−H2O
b3
b4−H2O
b4
b6−H2O
b6
b7
y6
b2
y2

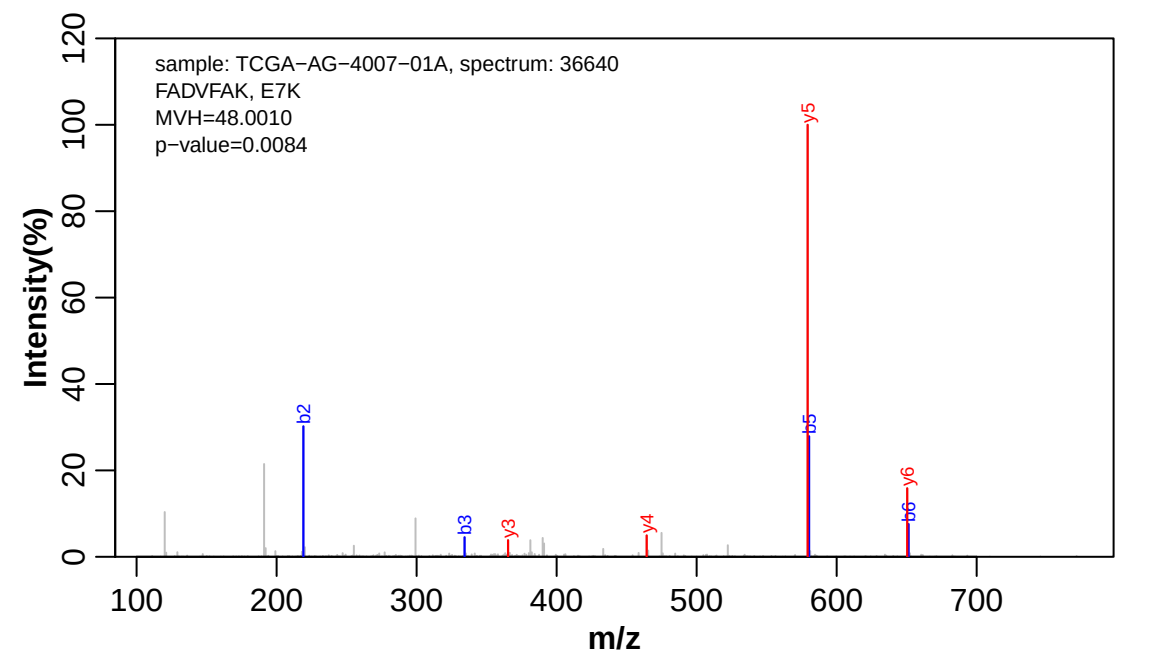

sample: TCGA−AG−4007−01A, spectrum: 18676
EALDVLDAVLK, G7D
MVH=47.8977
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−NH3
b9−H2O
y9
b10−NH3
b10−H2O

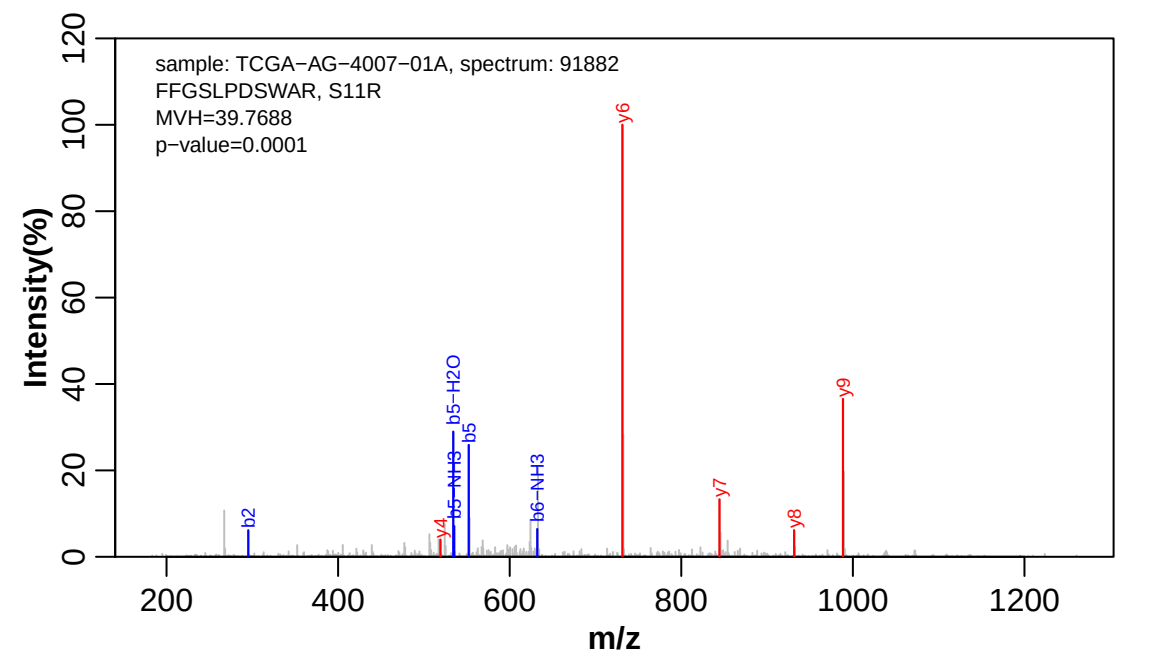

sample: TCGA−AG−4007−01A, spectrum: 50645
EHTLHLEAELEK, S4L
MVH=35.9438
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−H2O
b3−H2O
y3
y7++
y7++−H2O
b8++−H2O
y8++
b9++−H2O
y9++
y10++
b10++−H2O
b5−H2O
b11++−H2O
y6
y7
b9−H2O

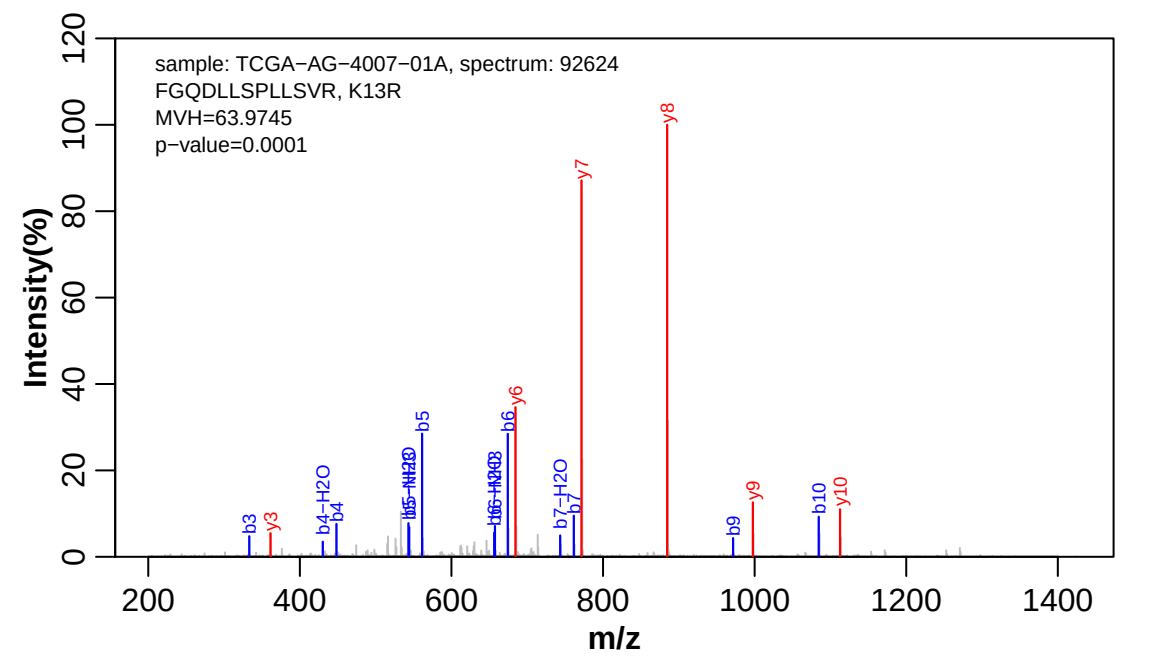

sample: TCGA−AG−4007−01A, spectrum: 43090
ELVDDSLNNVR, V7I
MVH=50.5395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3−NH3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
y6
b7−H2O
b7−NH3
b7
y7
b8−H2O
b8
y8
b9−NH3
b9−H2O
b9
y9−H2O
y9
b10−NH3
b10−H2O
b10

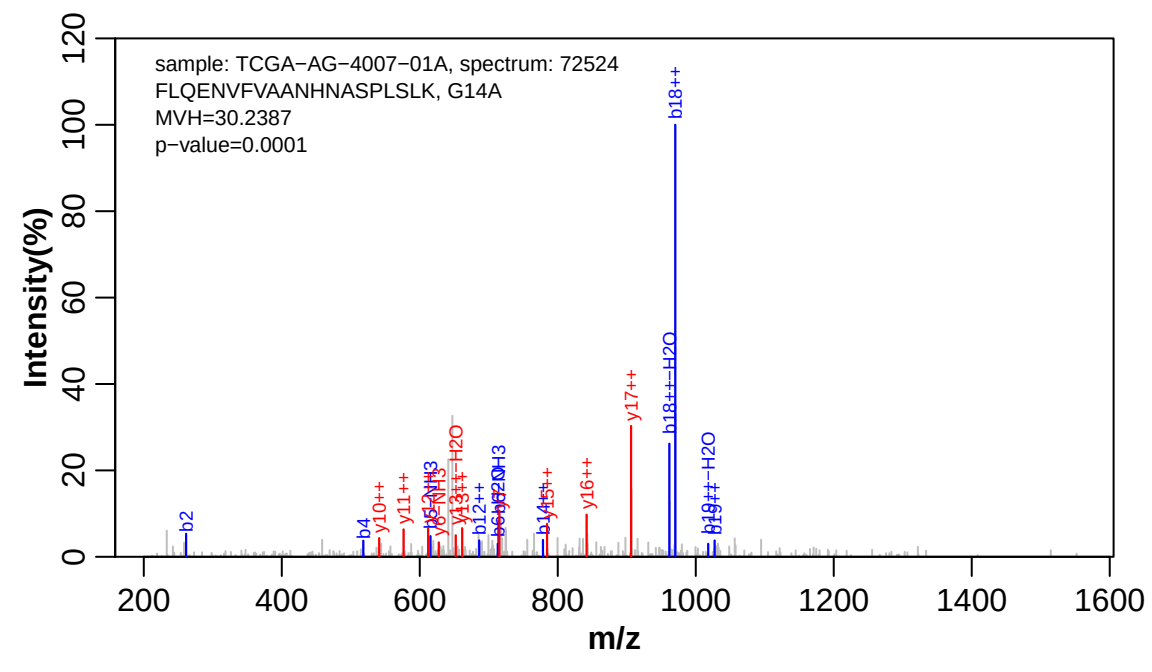

sample: TCGA−AG−4007−01A, spectrum: 84523
EQPGSPEWLQLDK, Q13K
MVH=45.1318
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

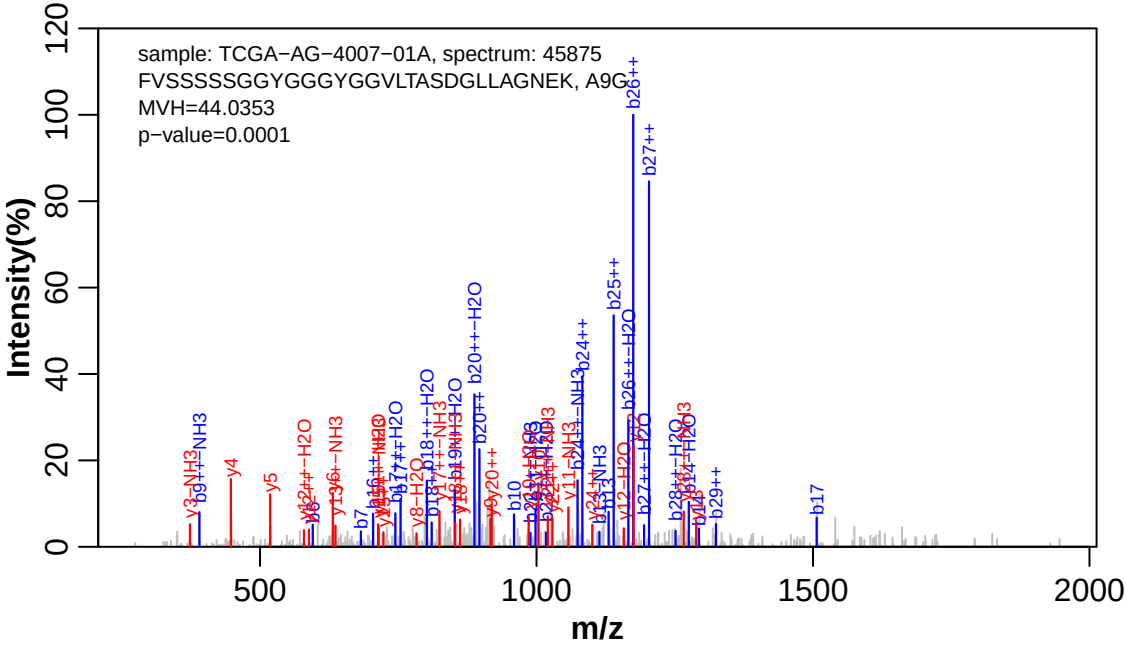

sample: TCGA−AG−4007−01A, spectrum: 25606
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=25.8965
p−value=0.0001
y24++
y20++
y22++
y25++−NH3
b5
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

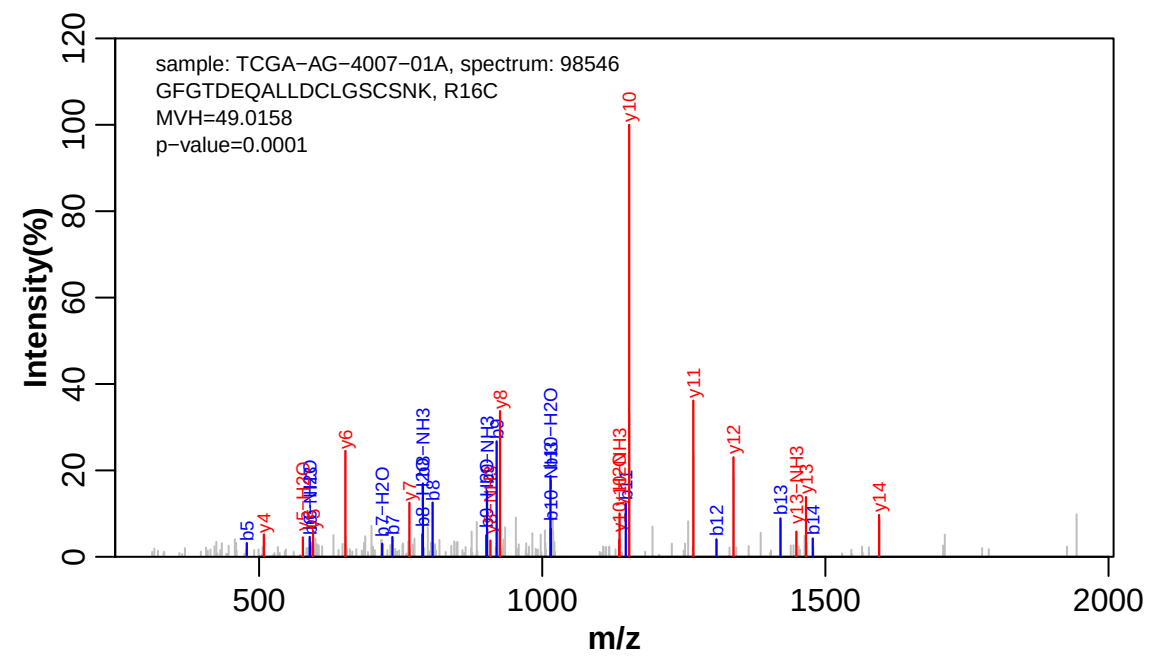

sample: TCGA−AG−4007−01A, spectrum: 36640
FADVFAK, E7K
MVH=48.0010
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z
b2
b3
y3
y4
y5
b5
b6
y6

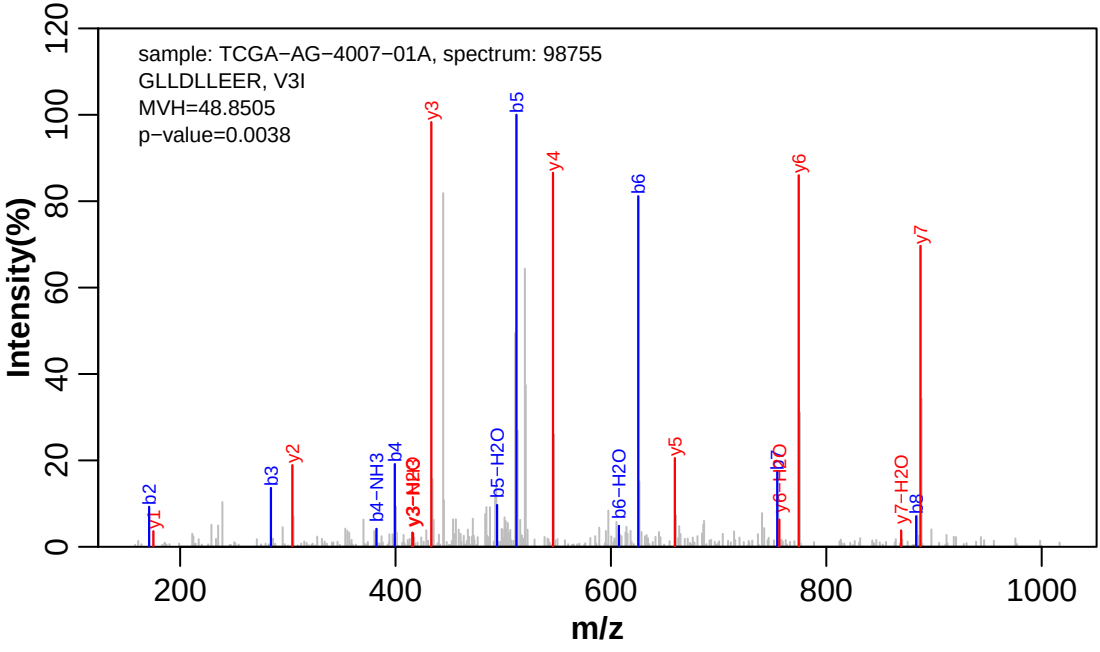

sample: TCGA−AG−4007−01A, spectrum: 91882
FFGSLPDSWAR, S11R
MVH=39.7688
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

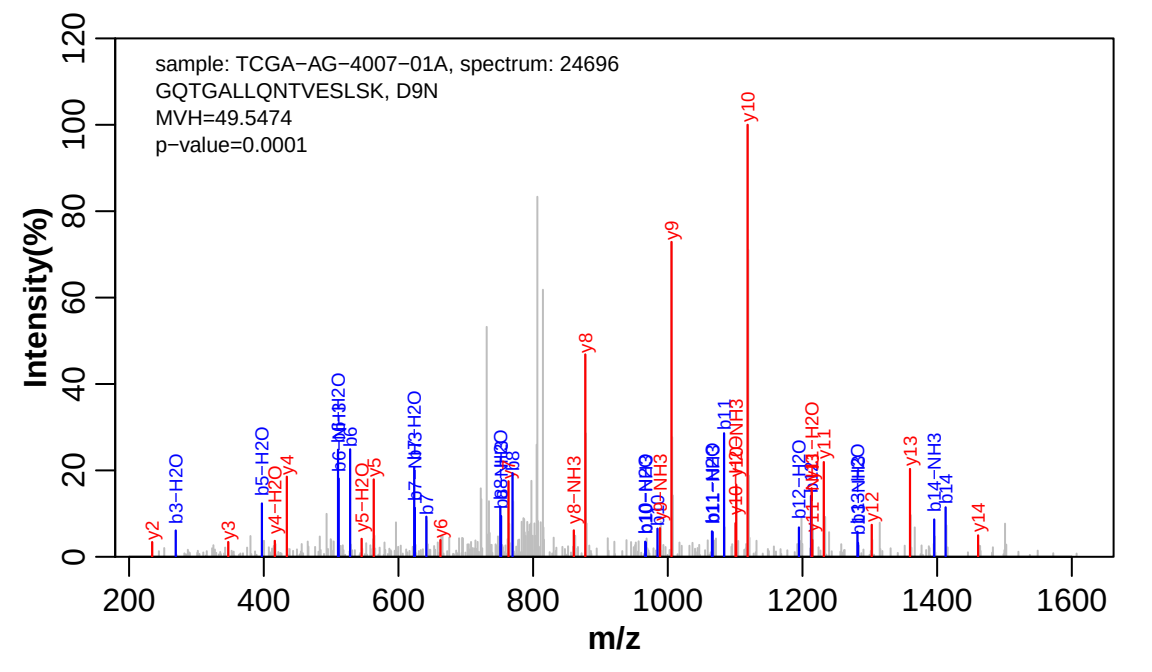

sample: TCGA−AG−4007−01A, spectrum: 92624
FGQDLLSPLLSVR, K13R
MVH=63.9745
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
b6
y6
b7−H2O
b7
y7
y8
b9
y9
b10
y10

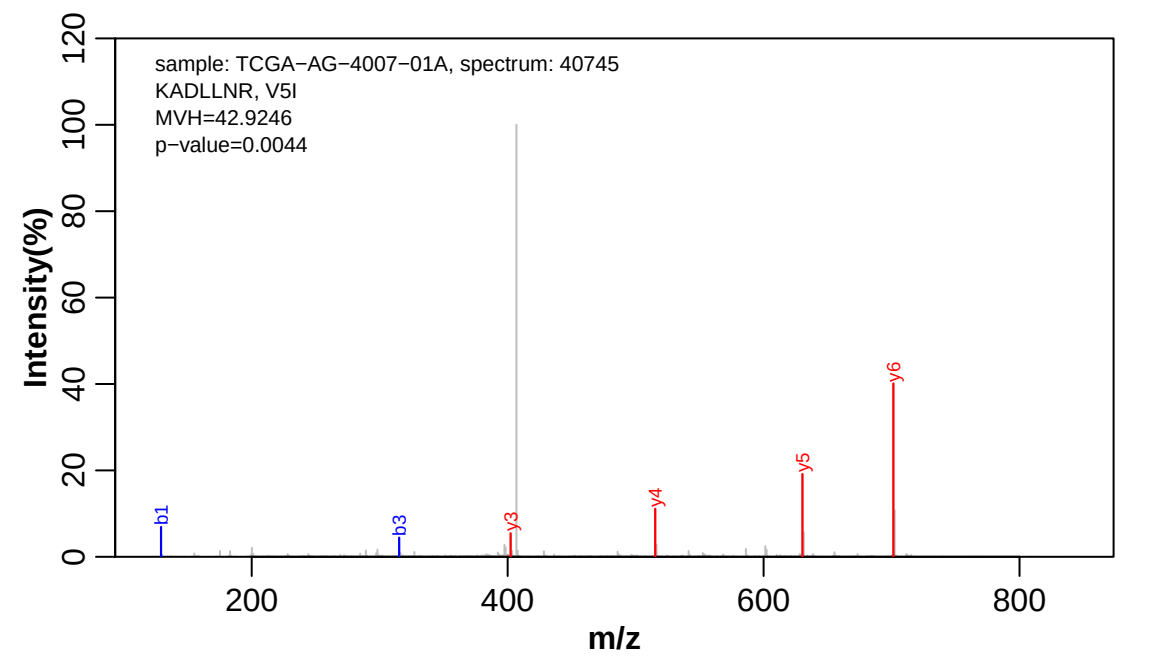

sample: TCGA−AG−4007−01A, spectrum: 72524
FLQENVFVAANHNASPLSLK, G14A
MVH=30.2387
p−value=0.0001
Intensity(%)
m/z
b2
b4
y10++
y11++
b12++
y16++
y17++
b18++
b18++−H2O
b19++−H2O

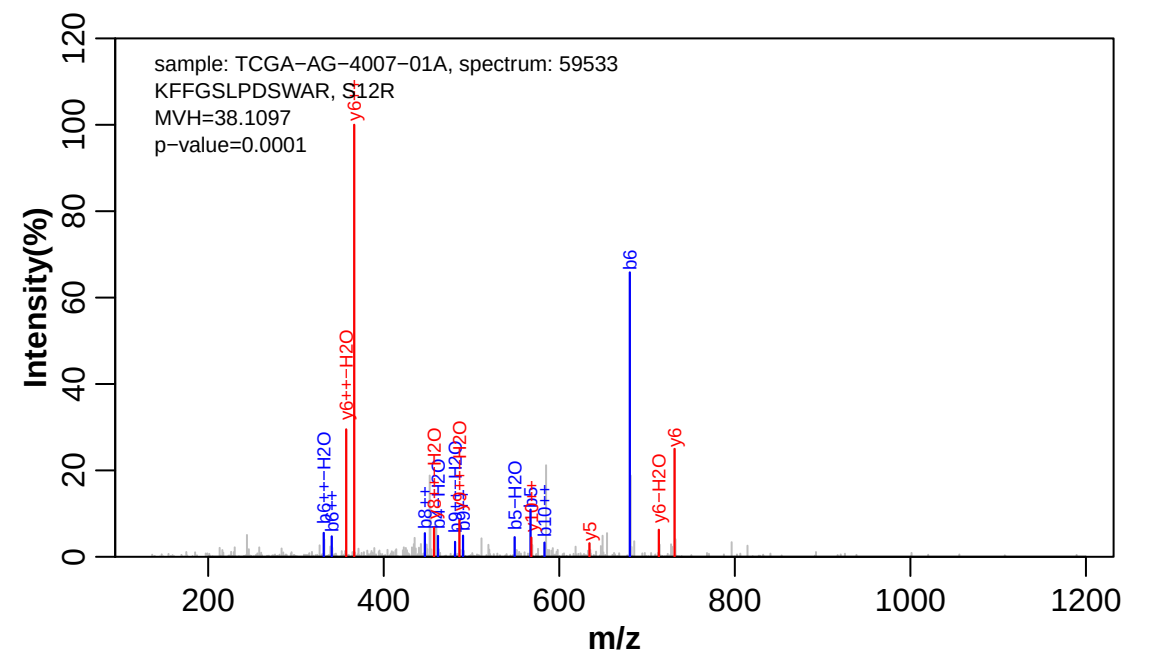

sample: TCGA−AG−4007−01A, spectrum: 45875
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=44.0353
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b26++
b27++
b25++
b20++−H2O
b24++
y3−NH3
y4
y5
b17
b29++

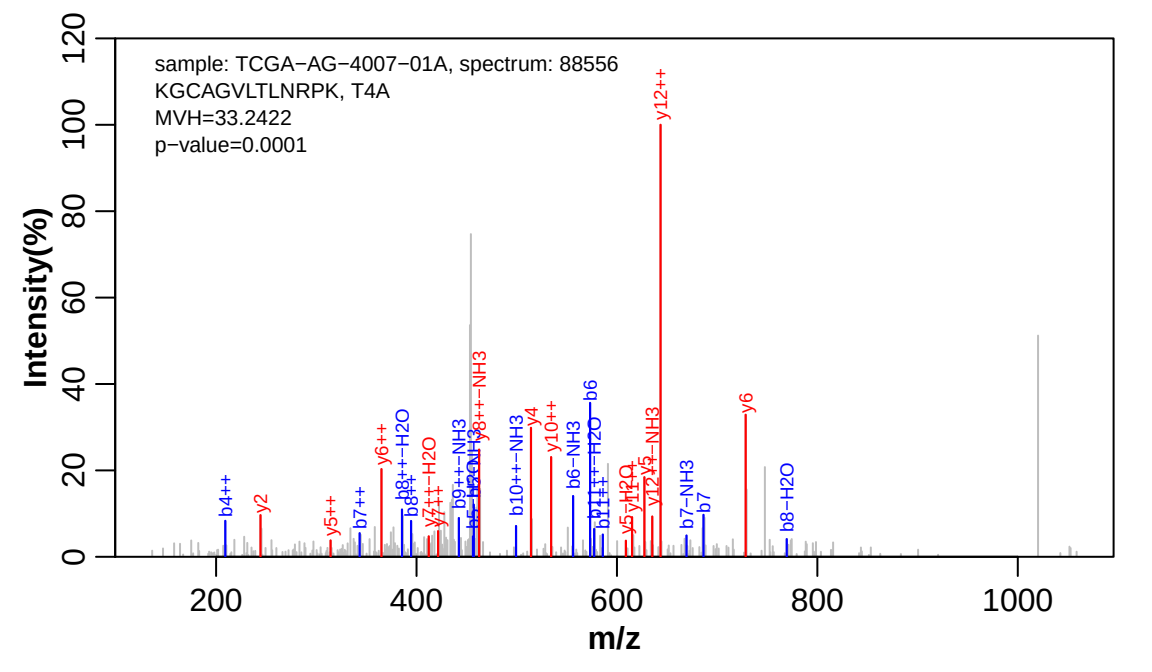

sample: TCGA−AG−4007−01A, spectrum: 98546
GFGTDEQALLDCLGSCSNK, R16C
MVH=49.0158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y14
y8
y6
y4
b5
b7−H2O
b10−H2O
b12
b13
b14

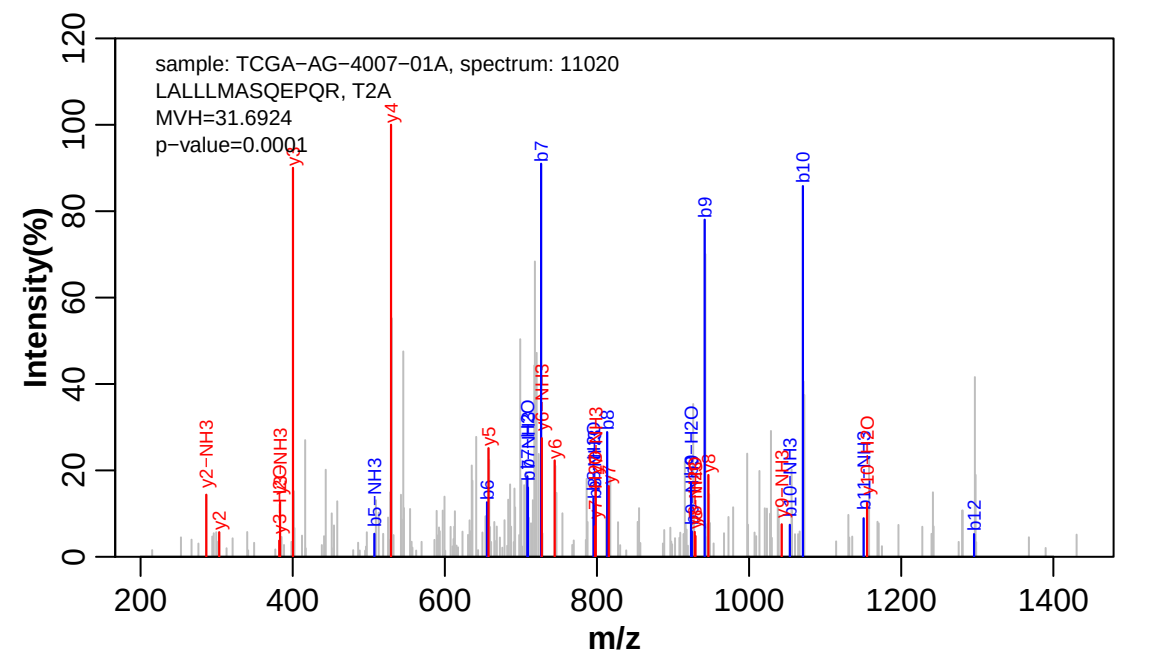

sample: TCGA−AG−4007−01A, spectrum: 98755
GLLDLLEER, V3I
MVH=48.8505
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
b4−NH3
b4
y3−NH3
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−H2O
y6
y7−H2O
b8
y7

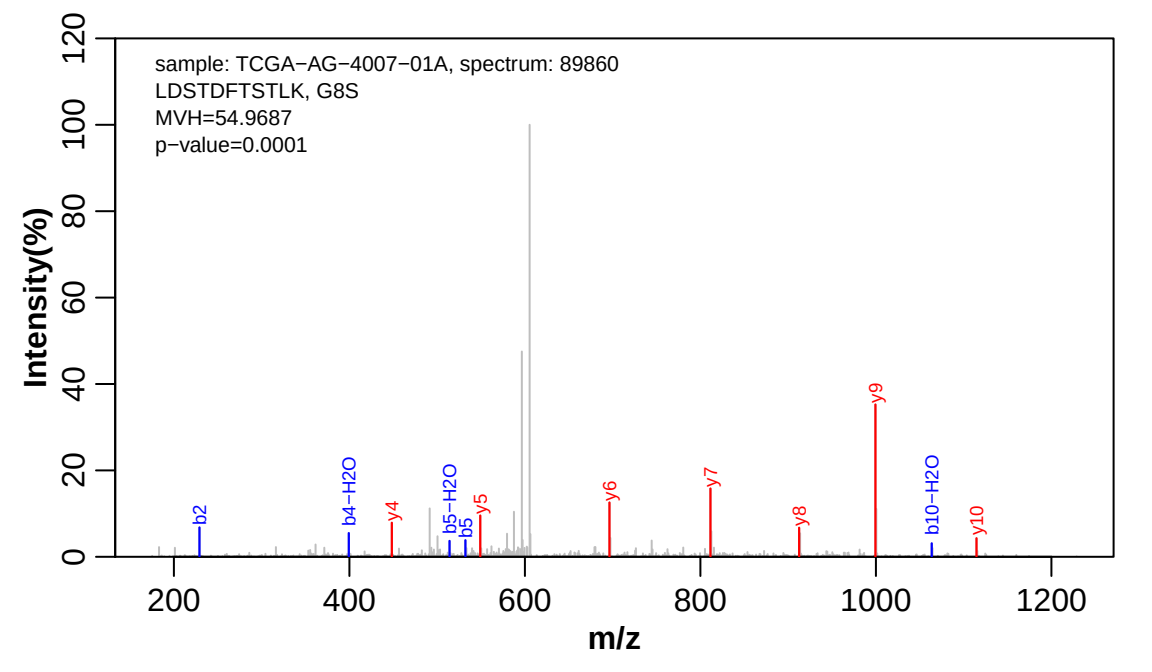

sample: TCGA−AG−4007−01A, spectrum: 24696
GQTGALLQNTVESLSK, D9N
MVH=49.5474
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y8−NH3
y13
y14
y12
b3−H2O
b5−H2O
y4
y5−H2O
y5
y6
b14−NH3
y2
y3
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

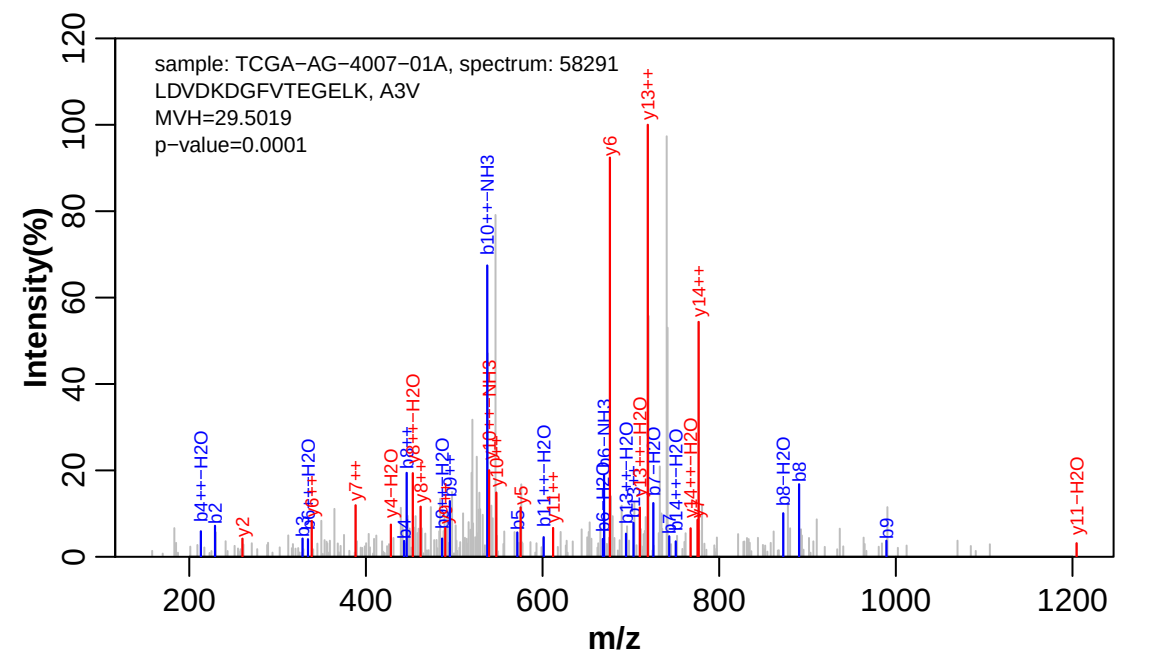

sample: TCGA−AG−4007−01A, spectrum: 40745
KADLLNR, V5I
MVH=42.9246
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
b3
y3
y4
y5
y6

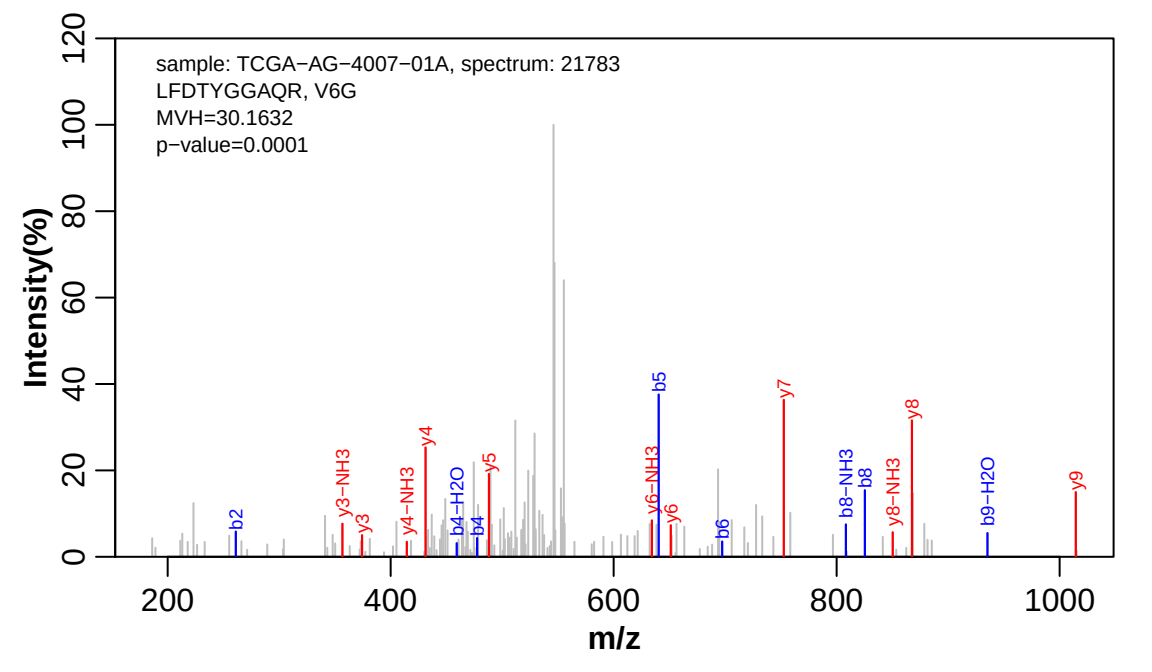

sample: TCGA−AG−4007−01A, spectrum: 59533
KFFGSLPDSWAR, S12R
MVH=38.1097
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b8++
b8++−H2O
b9++
b9++−H2O
b5−H2O
b10++
y5
b6
y6
y6−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200

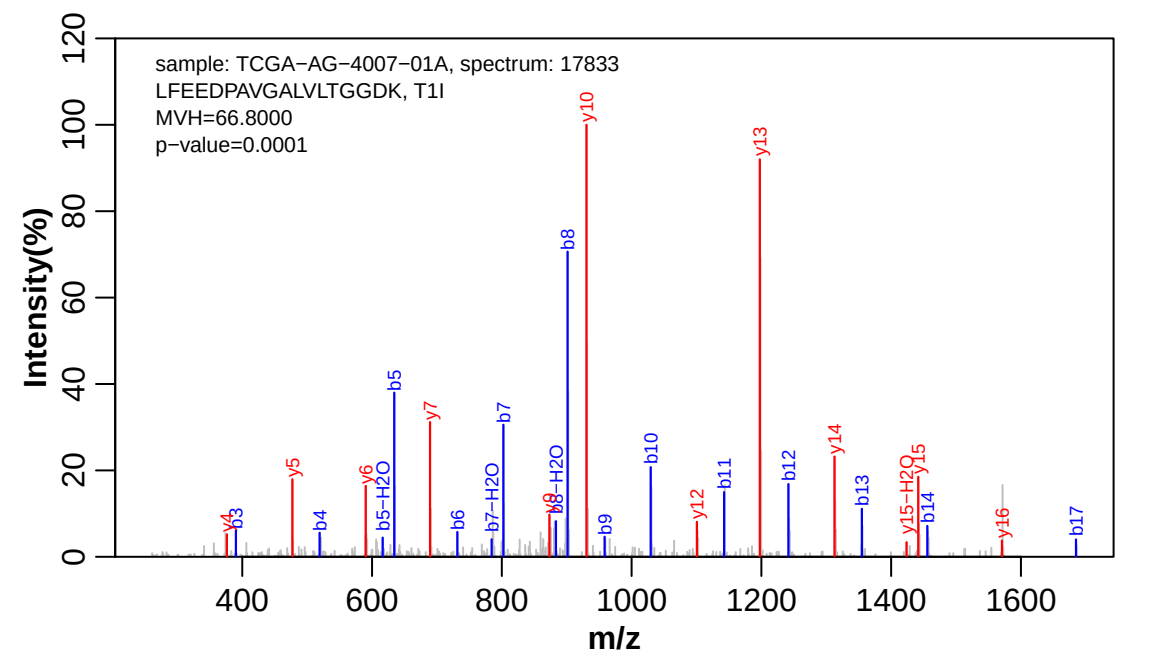

sample: TCGA−AG−4007−01A, spectrum: 88556
KGCAGVLTLNRPK, T4A
MVH=33.2422
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b4++
y2
y5++
b7++
y6++
b8++−H2O
b8++
y7++−H2O
y7++
b9++−NH3
b5−H2O
b5−NH3
y8++−NH3
b10++−NH3
y4
y10++
b6−NH3
b6
b11++−H2O
b11++
y5−H2O
y12++
y5−NH3
b7−NH3
b7
y6
b8−H2O

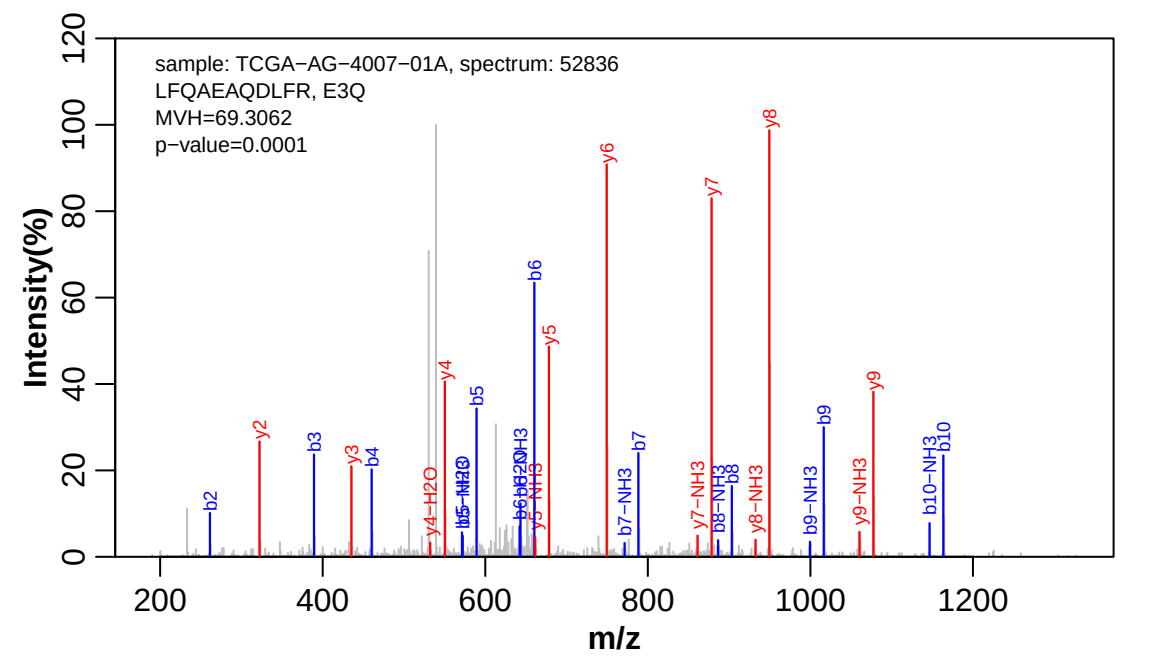

sample: TCGA−AG−4007−01A, spectrum: 11020
LALLLMASQEPQR, T2A
MVH=31.6924
p−value=0.0001
Intensity(%)
m/z
y1
y4
b7
b10
b9
y5
y6
b8
y7
b6
y8
b12
y2−NH3
y2
b5−NH3
y5−NH3
y6−NH3
y6−H2O
y9−NH3
y9
y10−NH3
b11−NH3
b11−H2O
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

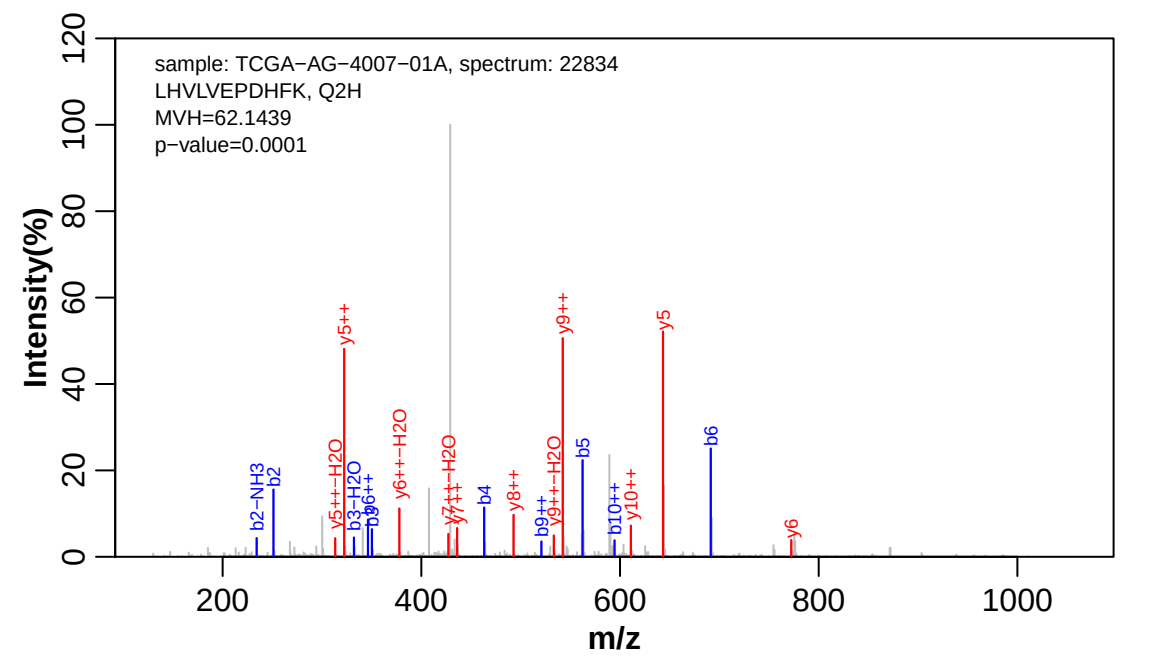

sample: TCGA−AG−4007−01A, spectrum: 89860
LDSTDFTSTLK, G8S
MVH=54.9687
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
y7
y8
y9
b10−H2O
y10

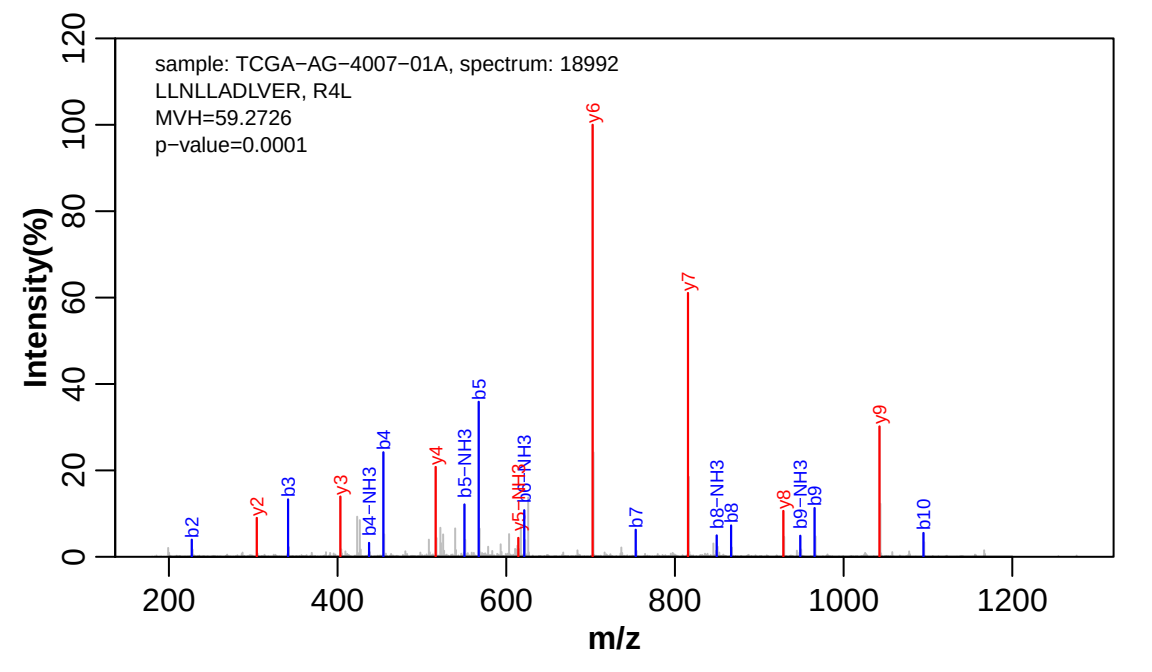

sample: TCGA−AG−4007−01A, spectrum: 58291
LDVDKDGFVTEGELK, A3V
MVH=29.5019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4++−H2O
b2
y2
b3
b3++−H2O
b5++−H2O
y7++
y4−H2O
b4
b8++
y8++−H2O
b9++−H2O
b9++
b10++−NH3
y10++−NH3
b5
y5
b11++−H2O
y6
b6−H2O
b6−NH3
b13++−H2O
b13++
y13++
b7−H2O
b7
b14++−H2O
y14++−H2O
y14++
b8−H2O
b8
b9
y11−H2O

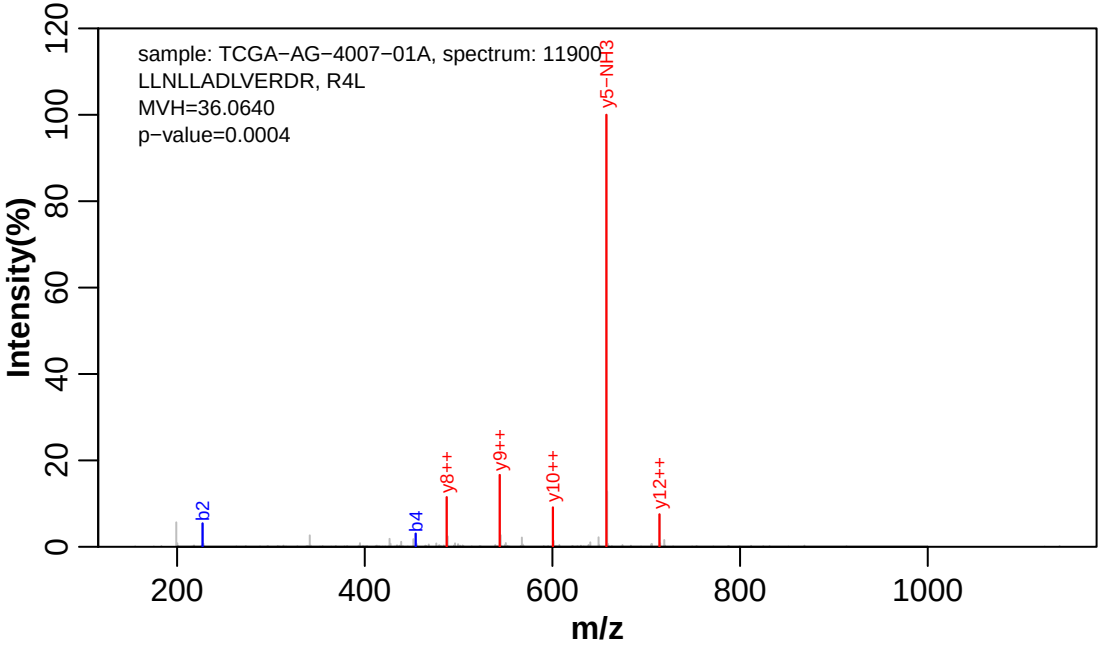

sample: TCGA−AG−4007−01A, spectrum: 21783
LFDTYGGAQR, V6G
MVH=30.1632
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y3−NH3
y3
y4−NH3
y4
b4−H2O
b4
y5
b5
y6−NH3
y6
b6
y7
b8−NH3
b8
y8−NH3
y8
b9−H2O
y9

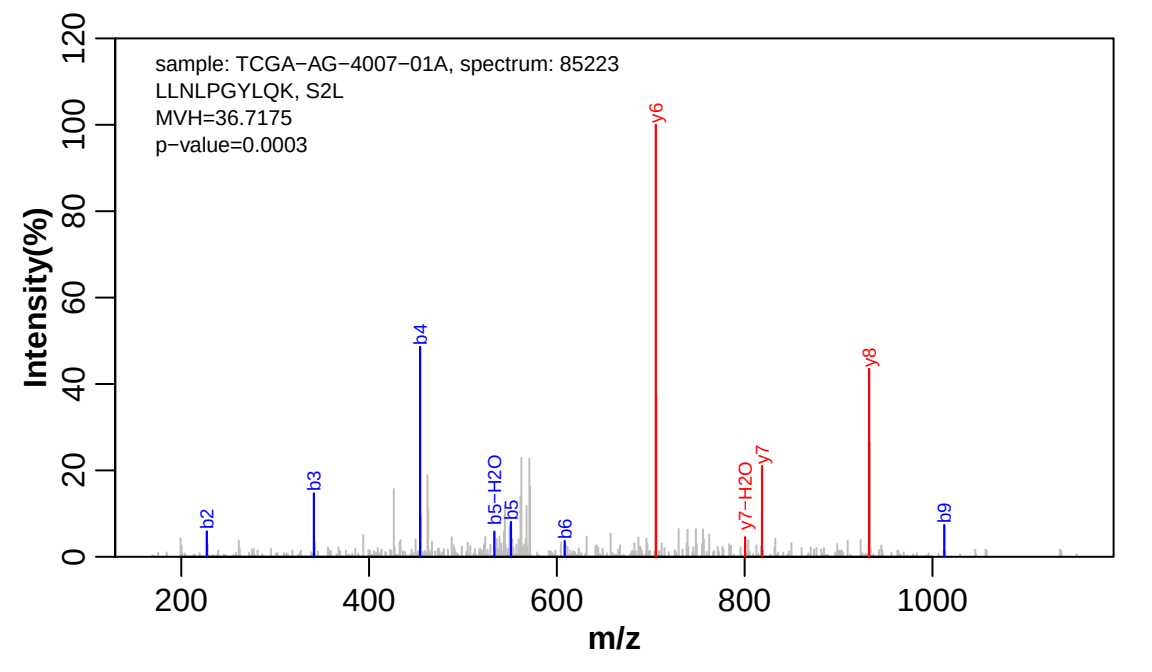

sample: TCGA−AG−4007−01A, spectrum: 17833
LFEEDPAVGALVLTGGDK, T1I
MVH=66.8000
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y10
y13
b8
b5
y7
b7
y5
y6
b5−H2O
b7−H2O
b8−H2O
b10
y14
b11
b12
y12
b13
y15−H2O
y15
b14
y16
b17
y4
b3
b4
b6
b9

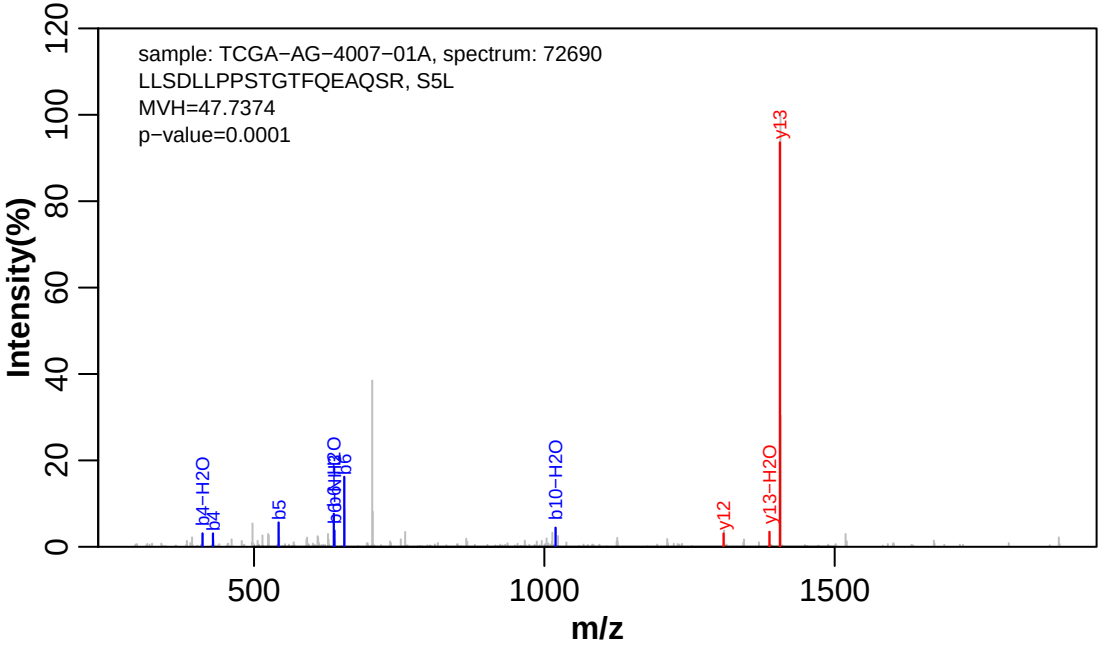

sample: TCGA−AG−4007−01A, spectrum: 52836
LFQAEAQDLFR, E3Q
MVH=69.3062
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4−H2O
y4
b5
b6
y5−NH3
y5
b6
b7−NH3
b7
y7−NH3
b8−NH3
b8
y8−NH3
y6
y7
y8
b9−NH3
b9
y9−NH3
y9
b10−NH3
b10

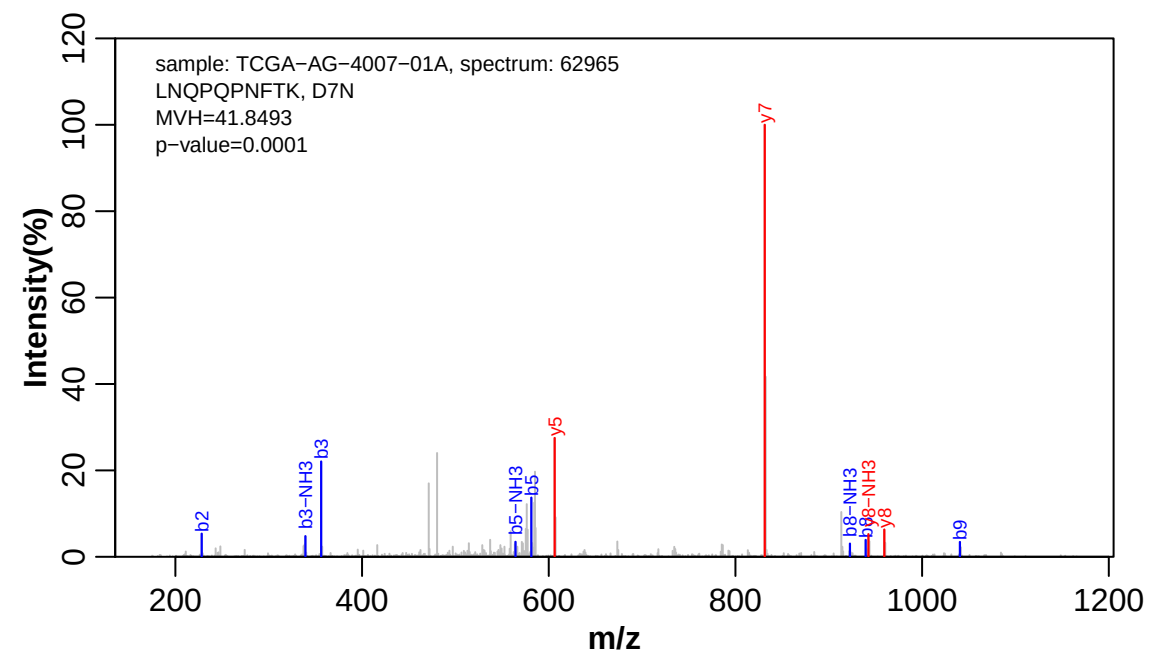

sample: TCGA−AG−4007−01A, spectrum: 22834
LHVLVEPDHFK, Q2H
MVH=62.1439
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−NH3
b2
y5++−H2O
y5++
b3−H2O
b3
b6++
y6++−H2O
y7++−H2O
y7++
b4
y8++
b9++
y9++−H2O
y9++
b5
b10++
y10++
y5
b6
y6

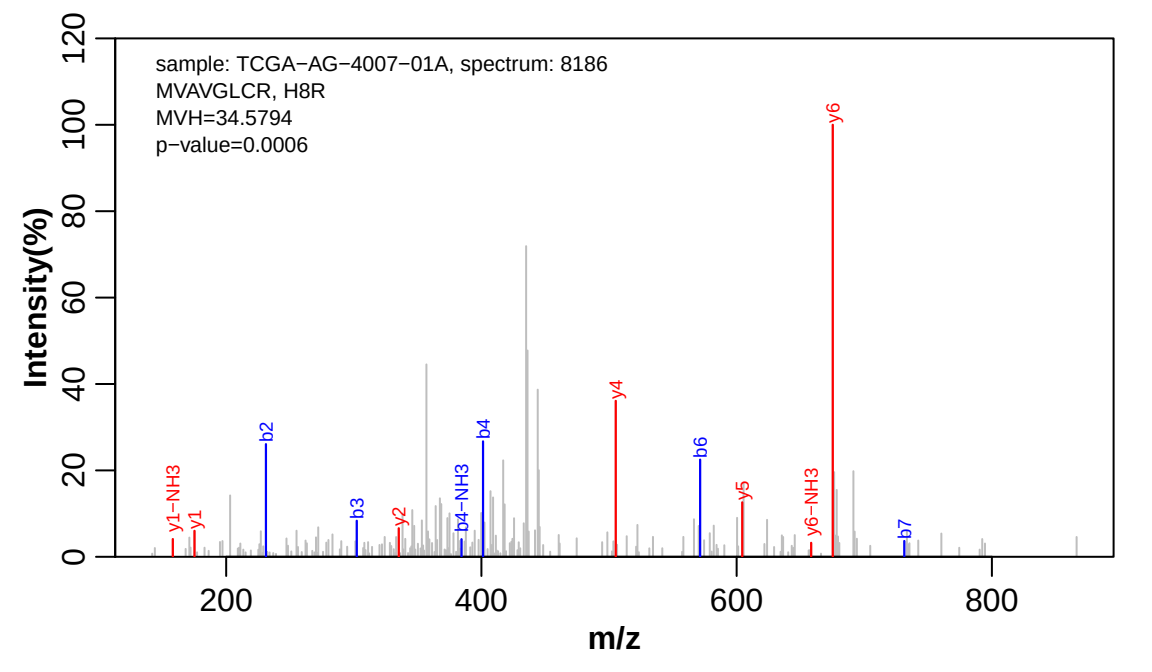

sample: TCGA−AG−4007−01A, spectrum: 18992
LLNLLADLVER, R4L
MVH=59.2726
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

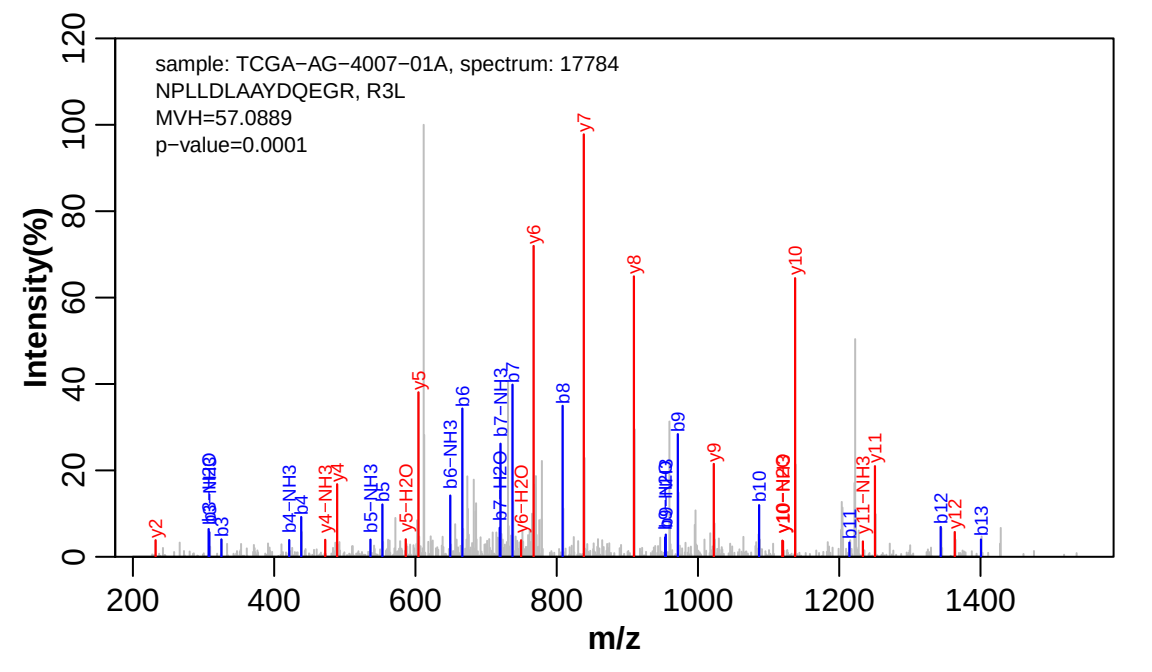

sample: TCGA−AG−4007−01A, spectrum: 11900
LLNLLADLVERDR, R4L
MVH=36.0640
p−value=0.0004
y5−NH3
y8++
y9++
y10++
y12++
b2
b4
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

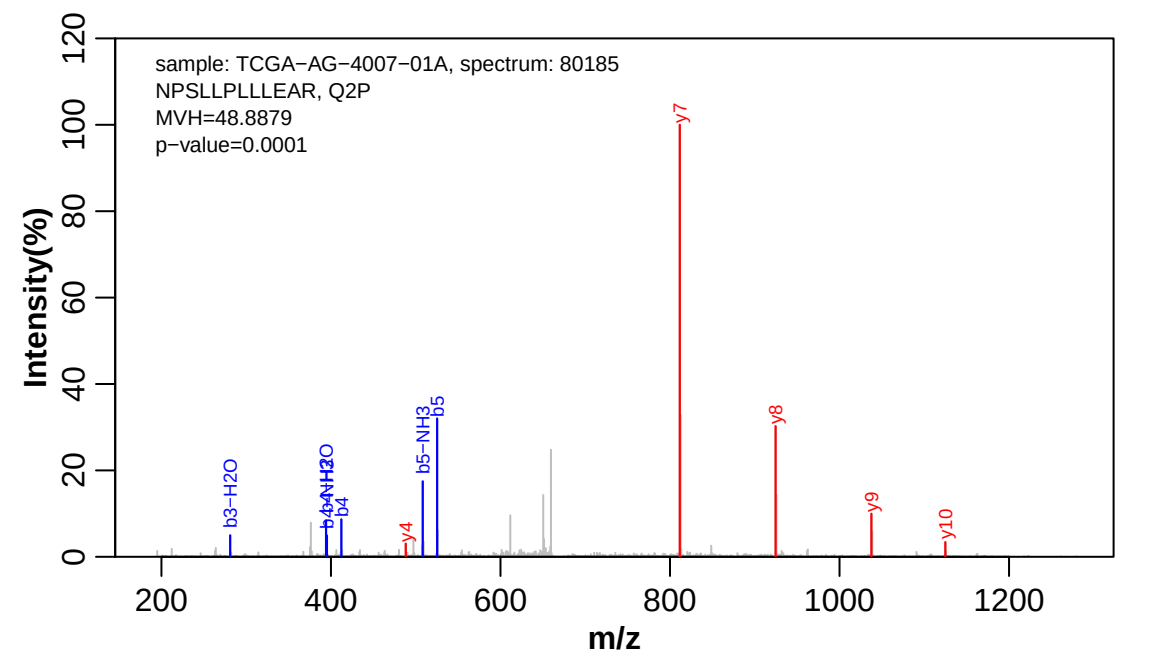

sample: TCGA−AG−4007−01A, spectrum: 85223
LLNLPGYLQK, S2L
MVH=36.7175
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5−H2O
b5
b6
y6
y7−H2O
y7
y8
b9

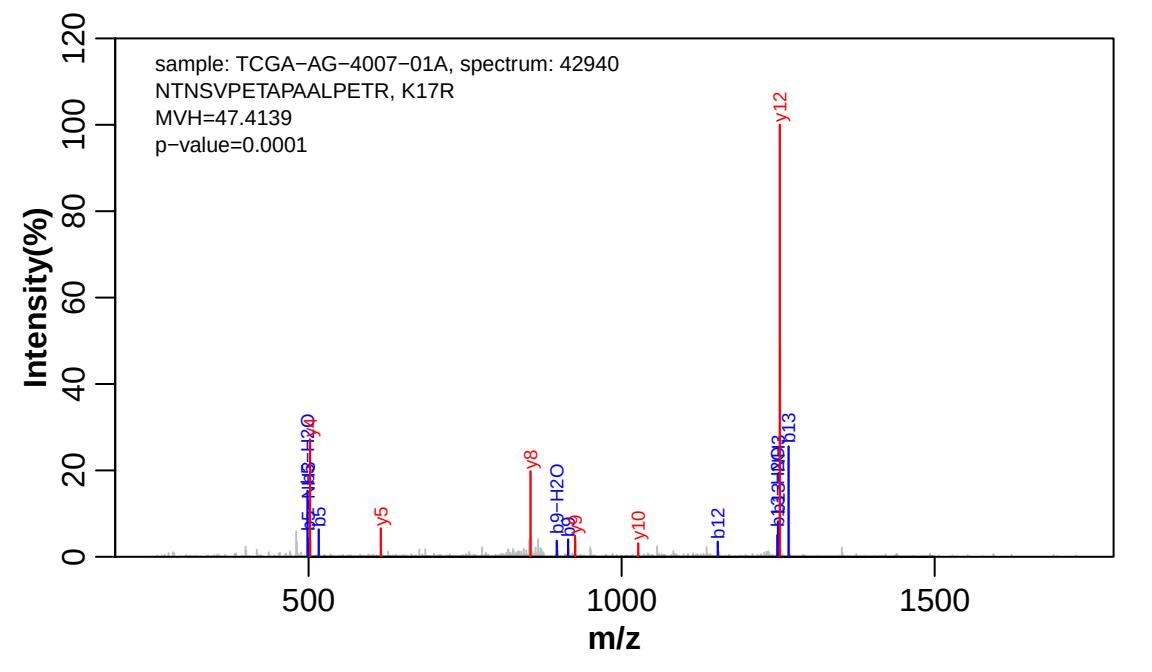

sample: TCGA−AG−4007−01A, spectrum: 72690
LLSDLLPPSTGTFQEAQSR, S5L
MVH=47.7374
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
b5
b6
b10−H2O
y12
y13
y13−H2O

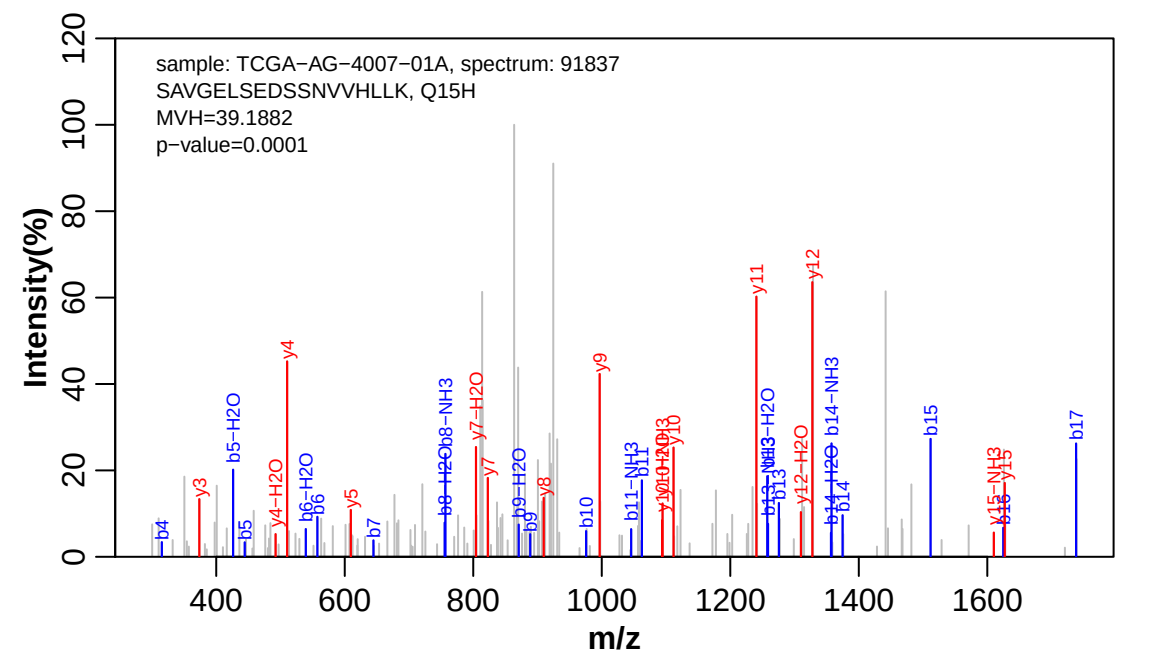

sample: TCGA−AG−4007−01A, spectrum: 62965
LNQPQPNFTK, D7N
MVH=41.8493
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−NH3
b3
b5−NH3
b5
y5
y7
b8−NH3
b8
y8
b9

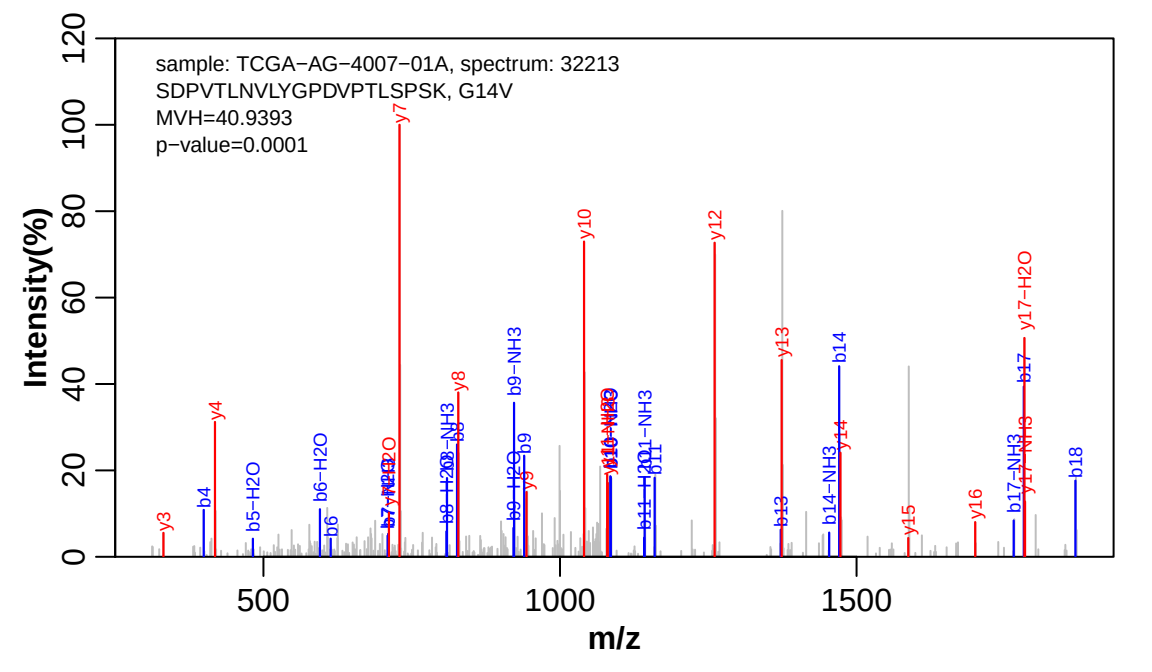

sample: TCGA−AG−4007−01A, spectrum: 8186
MVAVGLCR, H8R
MVH=34.5794
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1−NH3
y1
b2
b3
y2
b4−NH3
b4
y4
b6
y5
y6−NH3
y6
b7

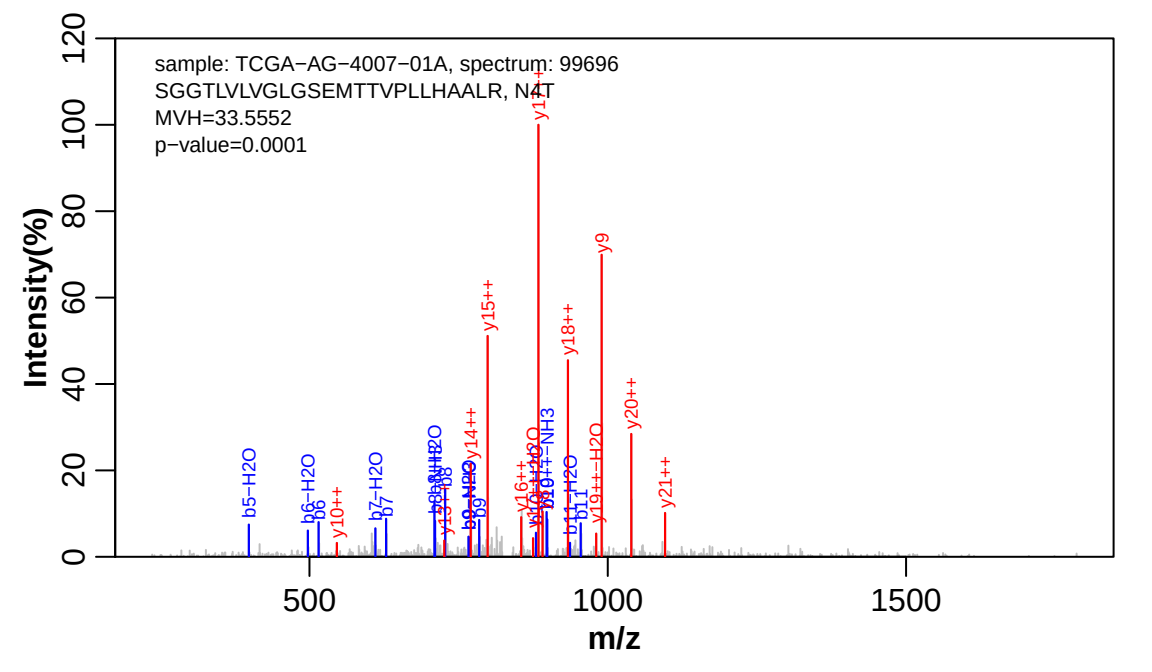

sample: TCGA−AG−4007−01A, spectrum: 17784
NPLLDLAAYDQEGR, R3L
MVH=57.0889
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
b4
b4−NH3
y4
y4−NH3
b5
b5−NH3
y5
y5−H2O
b6
b6−NH3
b7
b7−NH3
y6
y6−H2O
b8
y7
y8
b9
y9
b10
y10
y10−NH3
b11
y11
y11−NH3
b12
y12
b13

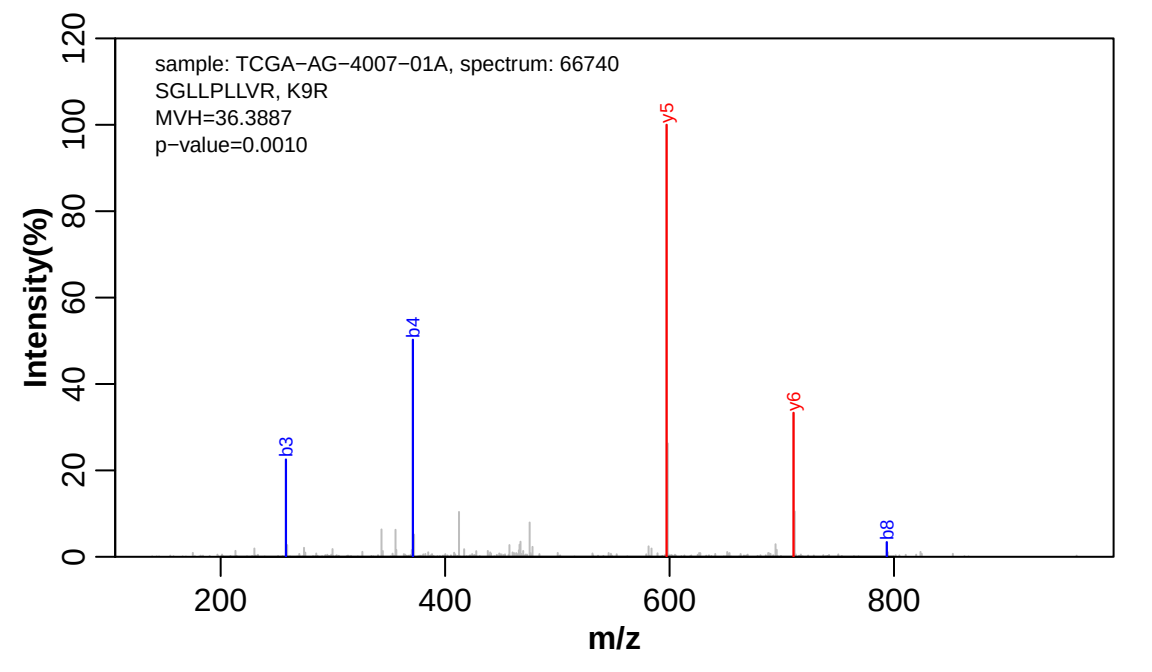

sample: TCGA−AG−4007−01A, spectrum: 80185
NPSLLPLLLEAR, Q2P
MVH=48.8879
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b4−NH3
b4−H2O
b4
y4
b5−NH3
b5
y7
y8
y9
y10

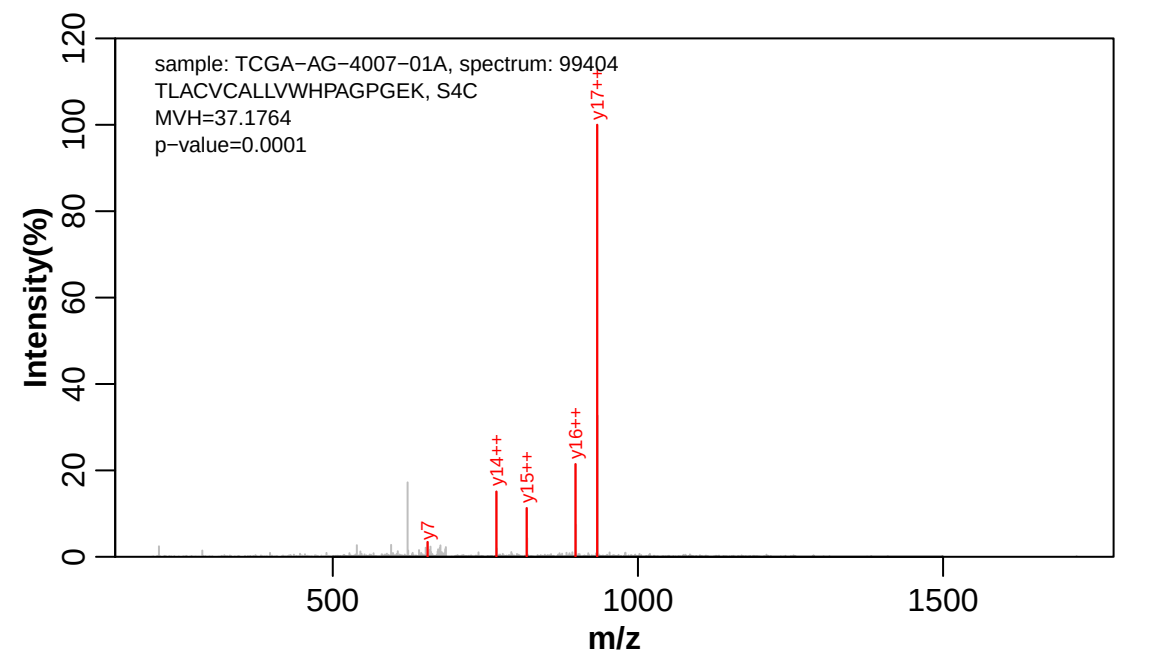

sample: TCGA−AG−4007−01A, spectrum: 42940
NTNSVPETAPAALPETR, K17R
MVH=47.4139
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y10
b12
b13
b5
y9
b9−H2O

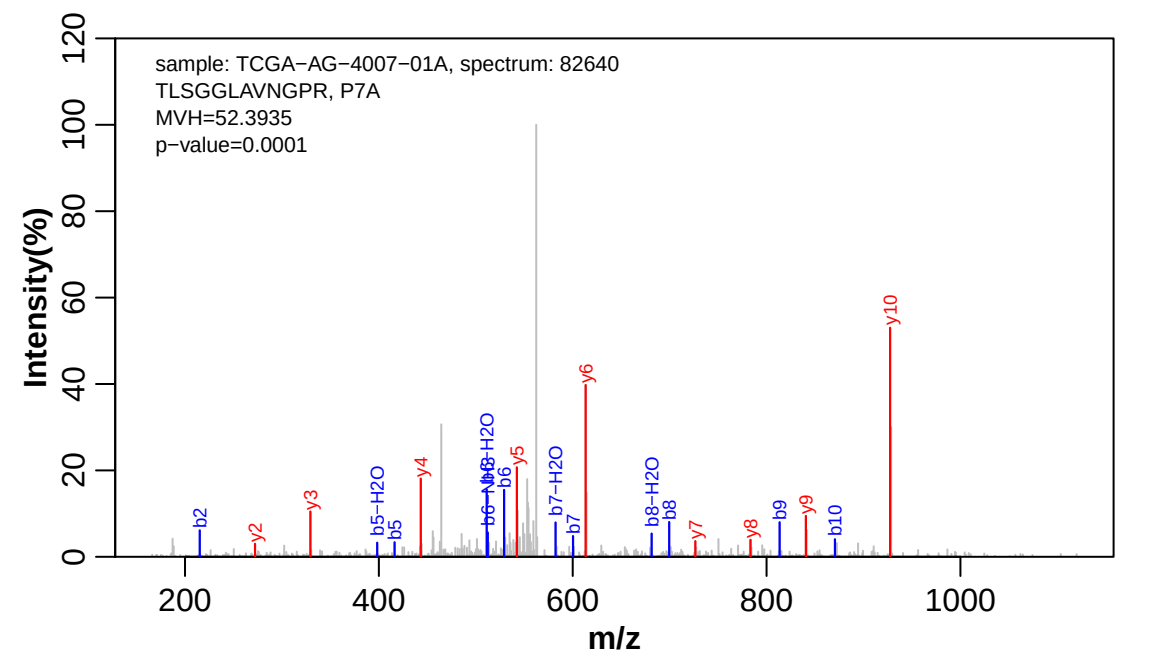

sample: TCGA−AG−4007−01A, spectrum: 91837
SAVGELSEDSSNVVHLLK, Q15H
MVH=39.1882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
b4
y3
b5−H2O
b5
y4−H2O
y4
b6−H2O
b6
y5
b7
b8−H2O
b8−NH3
y7−H2O
y7
b9−H2O
b9
y8
b10
y9
b11−NH3
b11
y10−H2O
y10
y11
b13−NH3−H2O
b13
y12−H2O
y12
b14−H2O
b14−NH3
b14
b15
y15−NH3
y15
b17

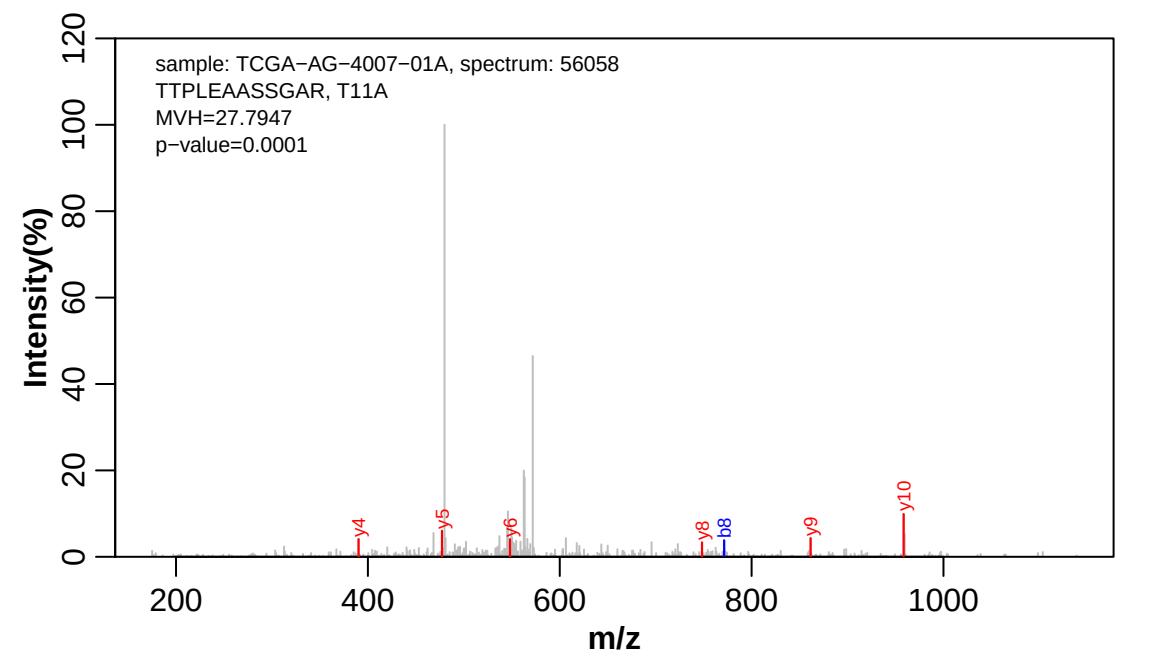

sample: TCGA−AG−4007−01A, spectrum: 32213
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=40.9393
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b4
b5−H2O
b6−H2O
b6
y7
y8
b9−NH3
b9
b9−H2O
y9
y10
y12
y13
b11−NH3
b11
b12
b14
b14−NH3
y14
y15
y16
b17−NH3
y17−NH3
b17
y17−H2O
b18

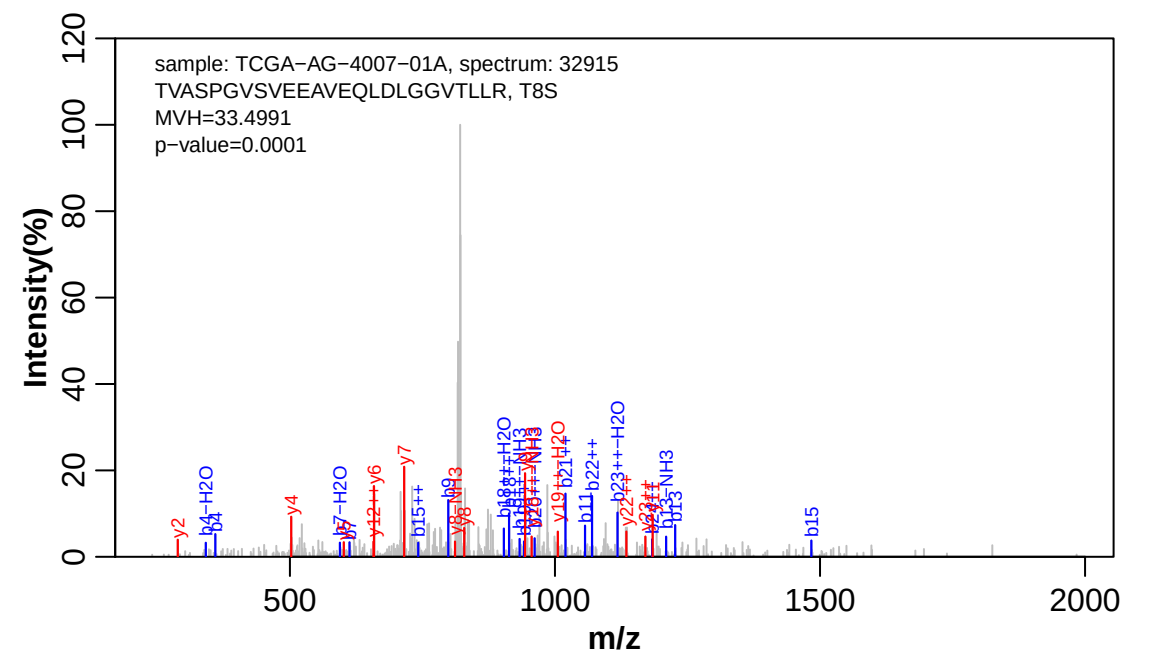

sample: TCGA−AG−4007−01A, spectrum: 99696
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=33.5552
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y14++
y9
y15++
y18++
y20++
y21++
y10++
b5−H2O
b6−H2O
b6
b7−H2O
b7
y14++
y16++
y19++−H2O
y19++−NH3
b11−H2O
b11

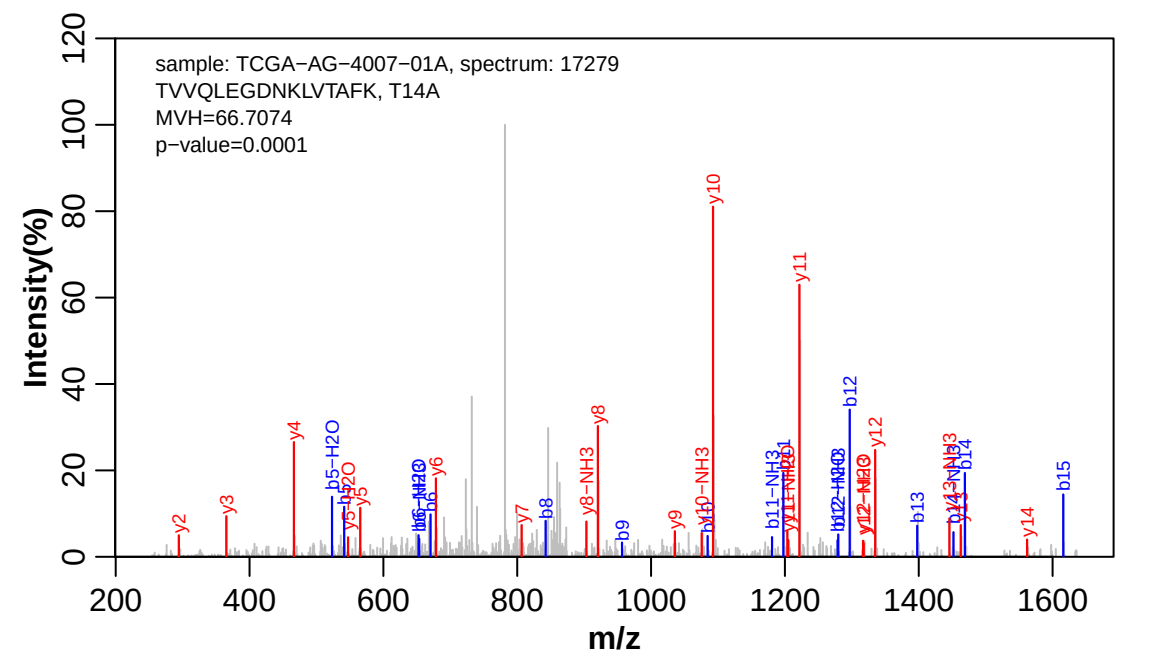

sample: TCGA−AG−4007−01A, spectrum: 66740
SGLLPLLVR, K9R
MVH=36.3887
p−value=0.0010
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
b4
y5
y6
b8

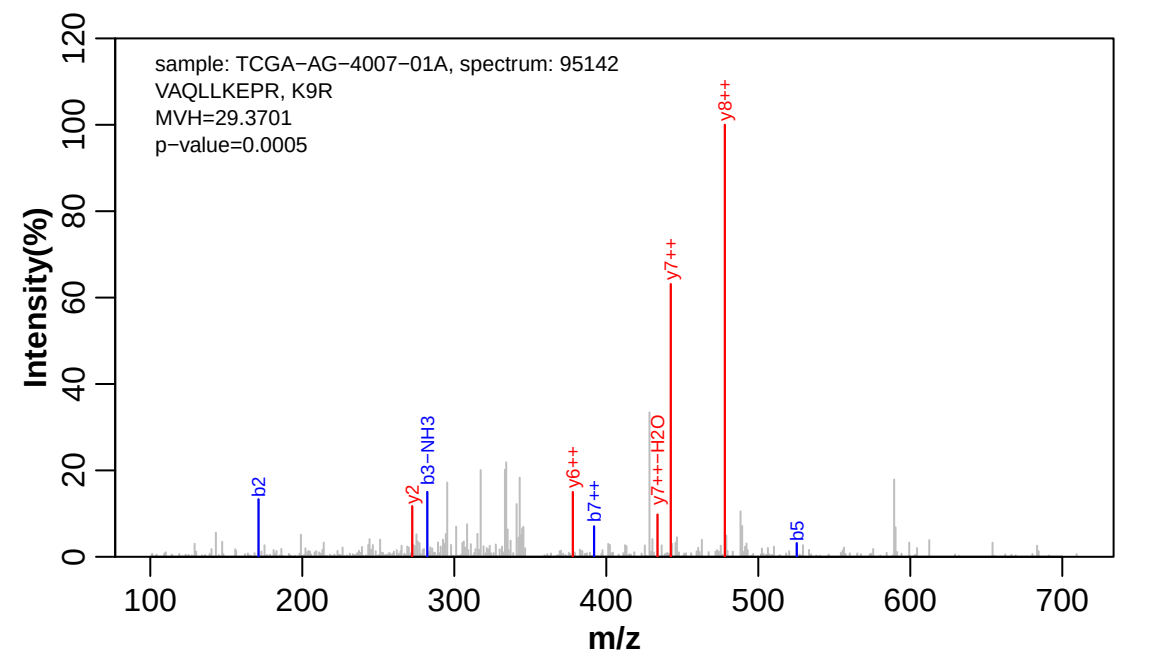

sample: TCGA−AG−4007−01A, spectrum: 99404
TLACVCALLVWHPAGPGEK, S4C
MVH=37.1764
p−value=0.0001
y17++
y16++
y14++
y15++
y7
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

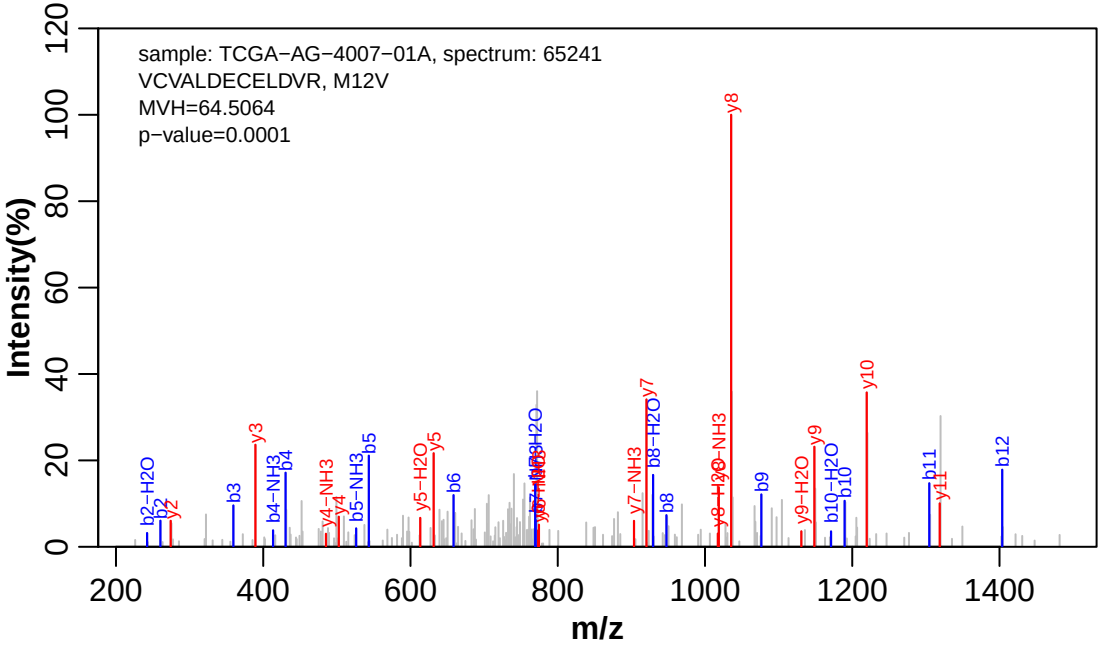

sample: TCGA−AG−4007−01A, spectrum: 82640
TLSGGLAVNGPR, P7A
MVH=52.3935
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7−H2O
b7
y6
b8−H2O
b8
y7
y8
b9
y9
b10
y10

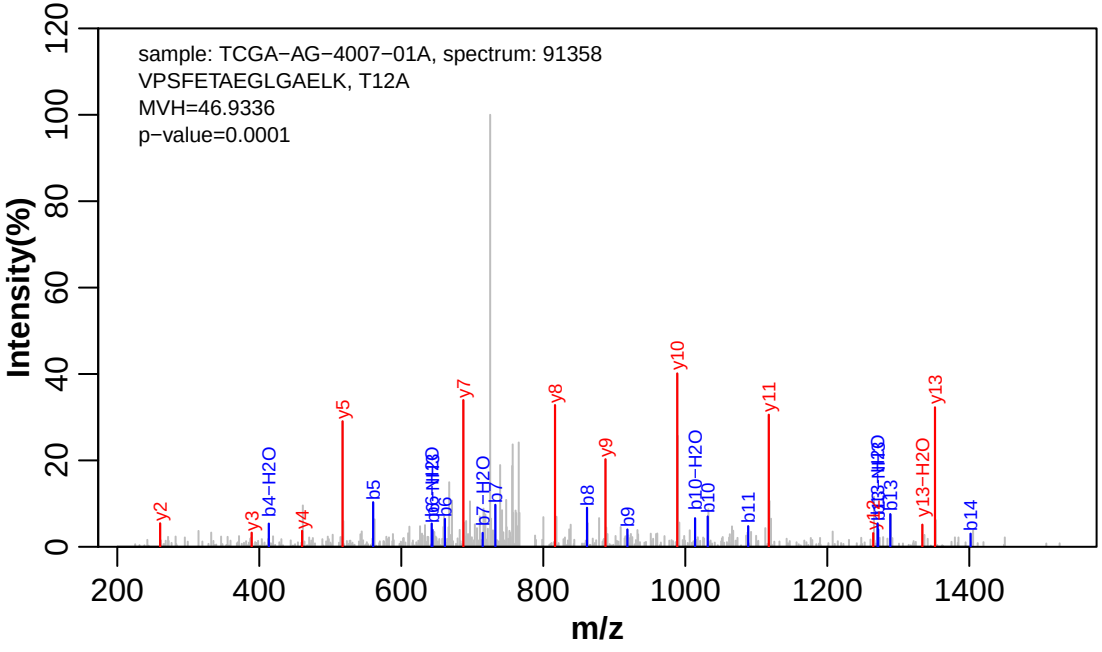

sample: TCGA−AG−4007−01A, spectrum: 56058
TTPLEAASSGAR, T11A
MVH=27.7947
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y4
y5
y6
y8
b8
y9
y10

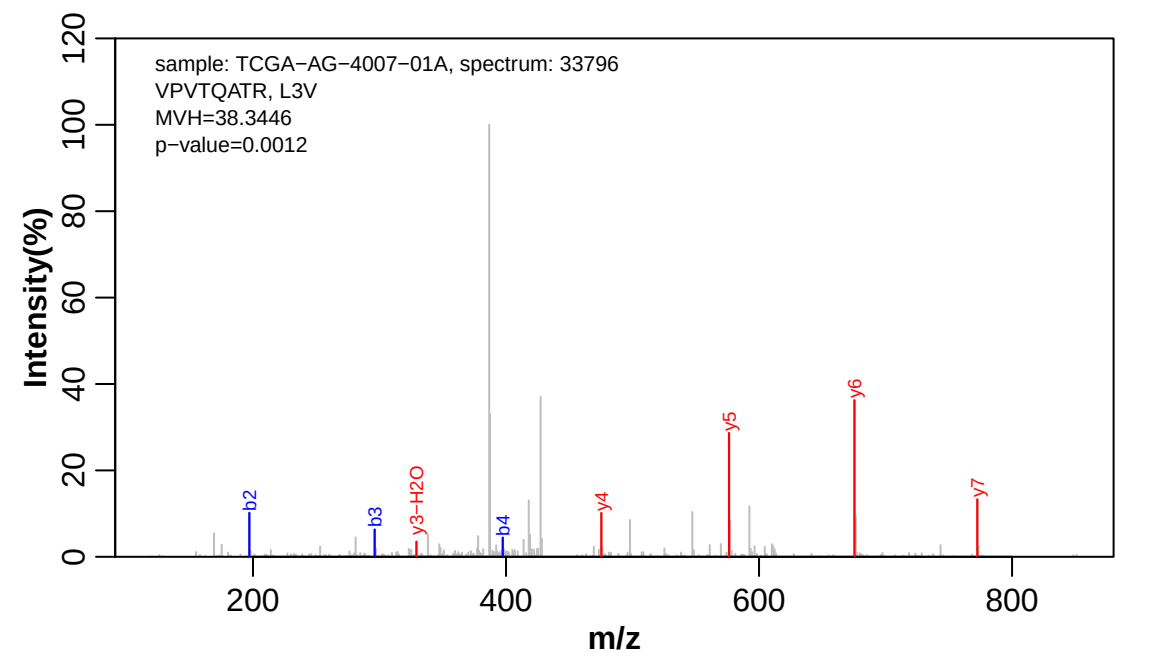

sample: TCGA−AG−4007−01A, spectrum: 32915
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=33.4991
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b4
b4−H2O
y4
b7
b7−H2O
y12++y6
y7
b15++
b9
b9−NH3
y8
b18++
b18++−H2O
b20++
b20++−NH3
y19++
y19++−H2O
b21++
b11
b22++
b23++−H2O
y22++
y22++−NH3
b13
b13−NH3
b15

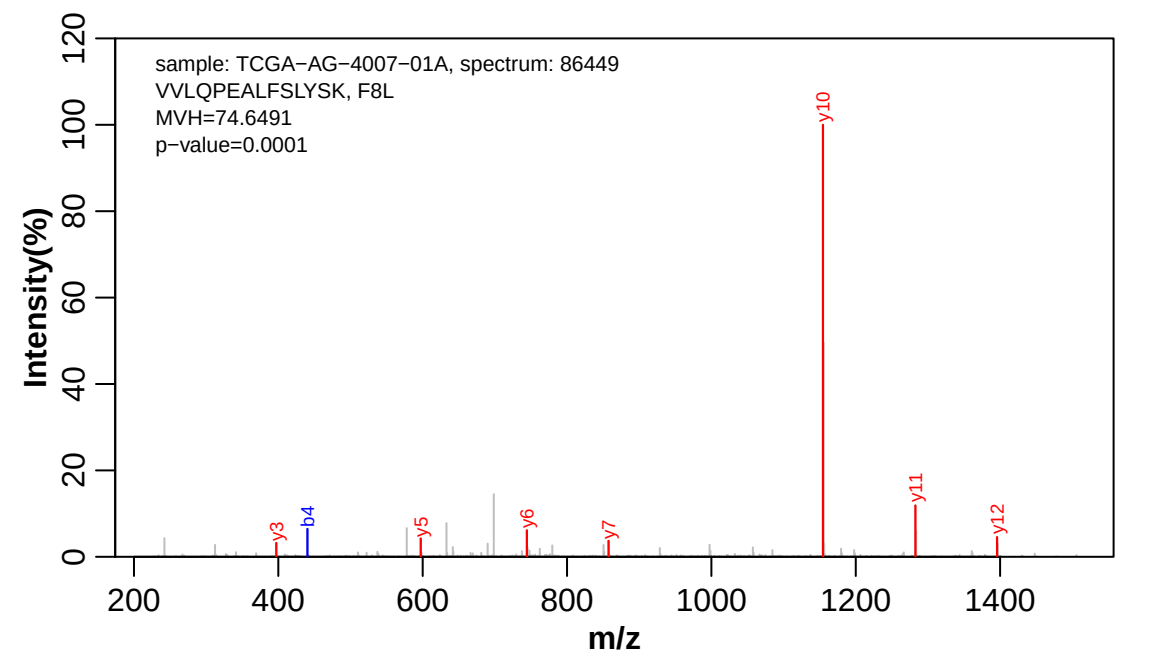

sample: TCGA−AG−4007−01A, spectrum: 17279
TVVQLEGDNKLVTAFK, T14A
MVH=66.7074
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
y4
b5−H2O
y5−H2O
y5
y6
b8
y7
y8−NH3
y8
b9
y9
b10−NH3
y10
b11−NH3
y11
b12
y12
b13
b14
y14
b15

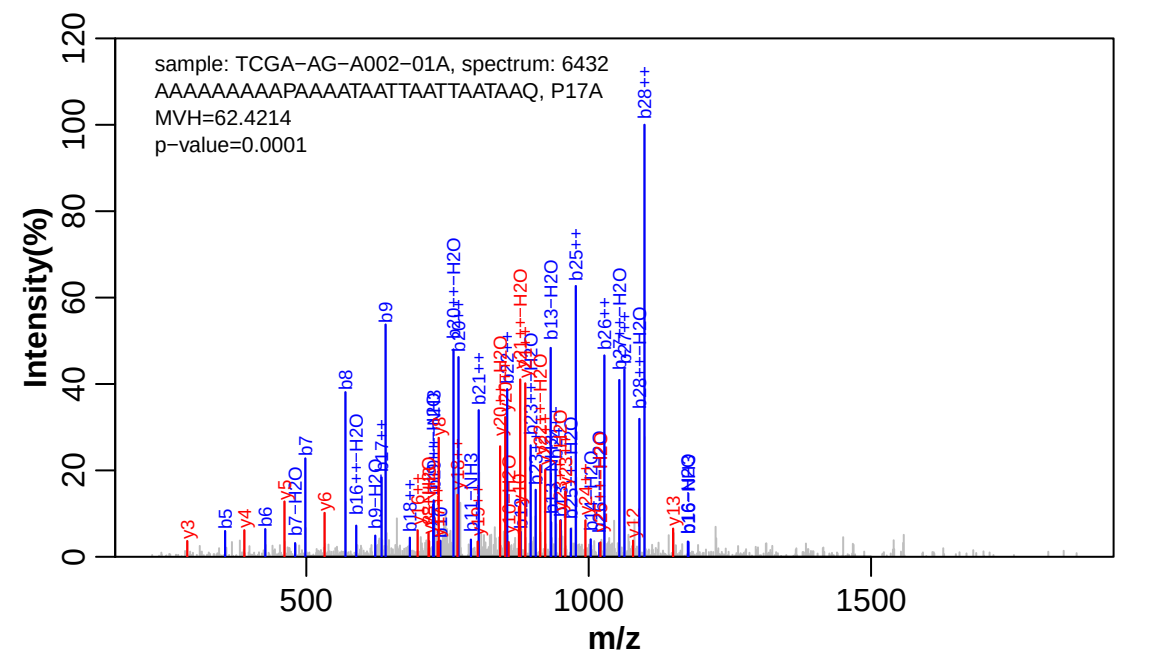

sample: TCGA−AG−4007−01A, spectrum: 95142
VAQLLKEPR, K9R
MVH=29.3701
p−value=0.0005
Intensity(%)
m/z
b2
y2
b3−NH3
y6++
b7++
y7++−H2O
y7++
y8++
b5

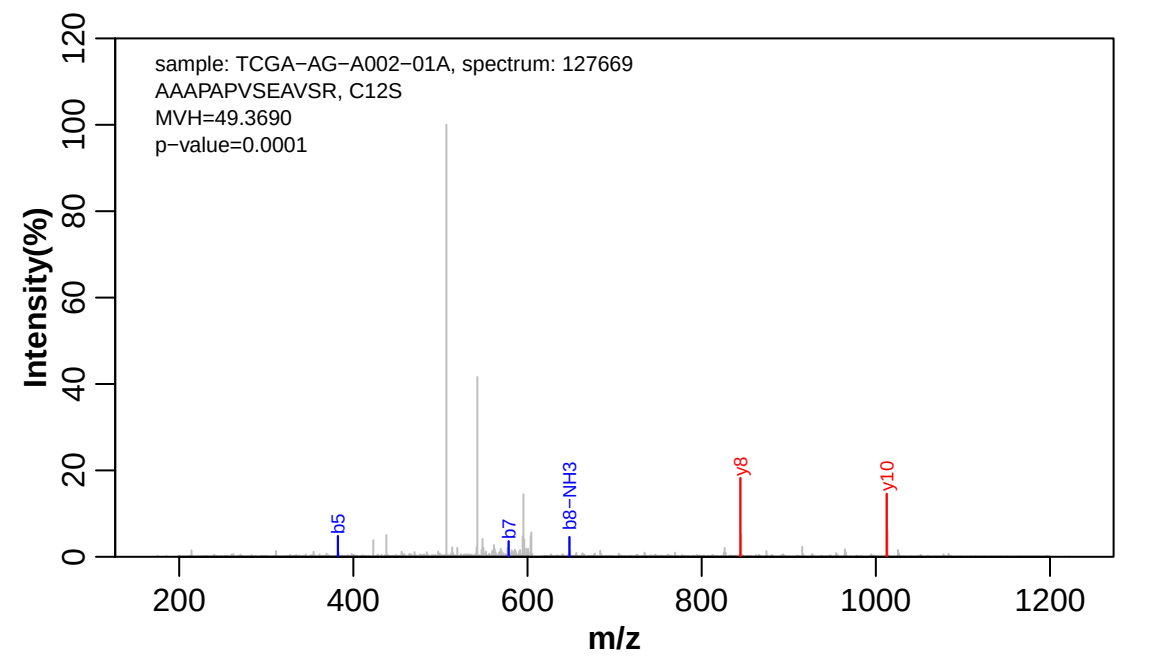

sample: TCGA−AG−4007−01A, spectrum: 65241
VCVALDECELDVR, M12V
MVH=64.5064
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b2
y2
b3
y3
b4−NH3
b4
y4−NH3
y4
b5−NH3
b5
y5−H2O
y5
b6
y7−NH3
b8−H2O
y7
b8
y8−NH3
y8
b9
y9−H2O
y9
b10−H2O
b10
y10
b11
y11
b12

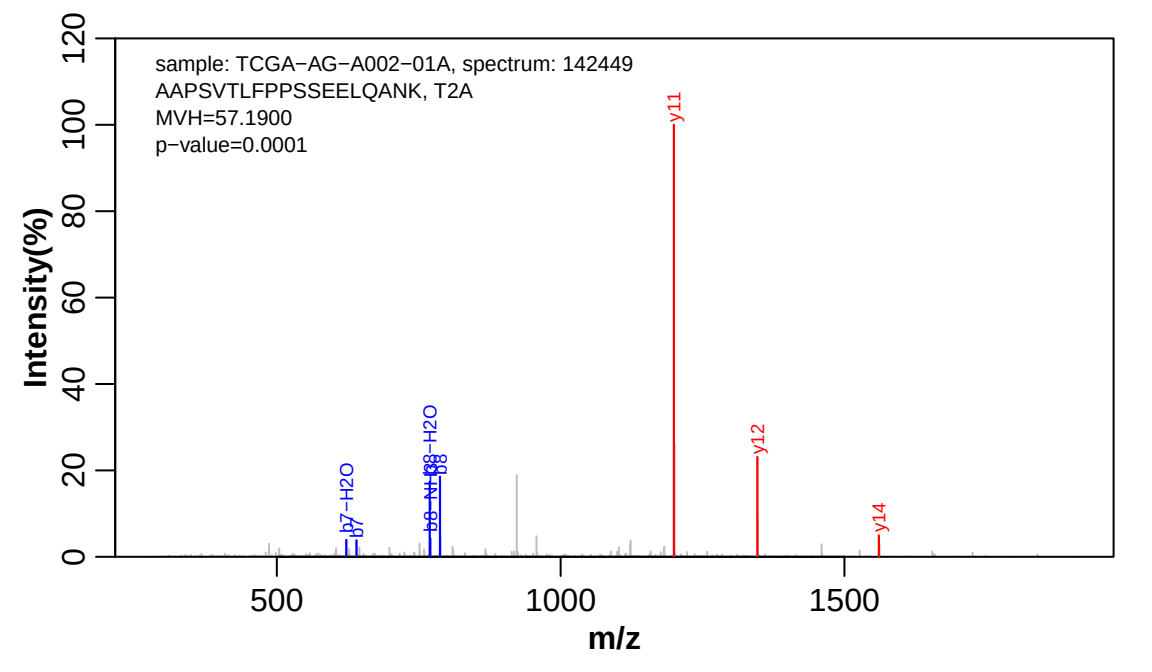

sample: TCGA−AG−4007−01A, spectrum: 91358
VPSFETAEGLGAELK, T12A
MVH=46.9336
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b4−H2O
y4
y5
b5
y7
b7−H2O
b7
y8
b8
y9
b9
y10
b10−H2O
b10
b11
y11
y13
y13−H2O
b13
b14

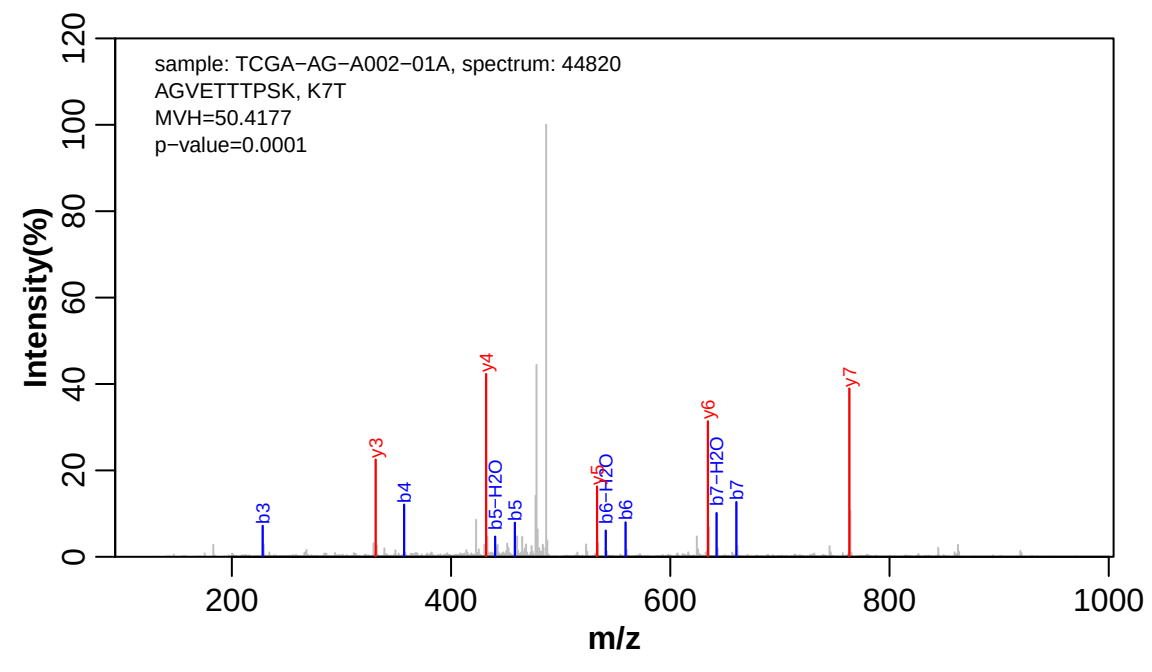

sample: TCGA−AG−4007−01A, spectrum: 33796
VPVTQATR, L3V
MVH=38.3446
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3−H2O
b4
y4
y5
y6
y7

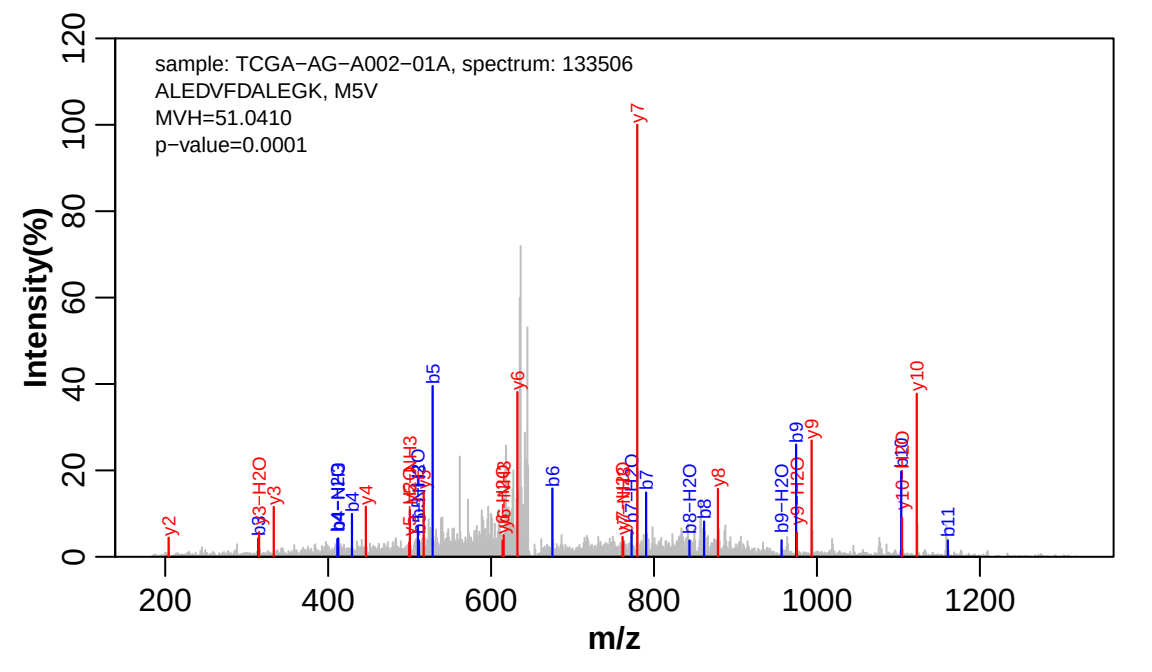

sample: TCGA−AG−4007−01A, spectrum: 86449
VVLQPEALFSLYSK, F8L
MVH=74.6491
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y3
b4
y5
y6
y7
y10
y11
y12

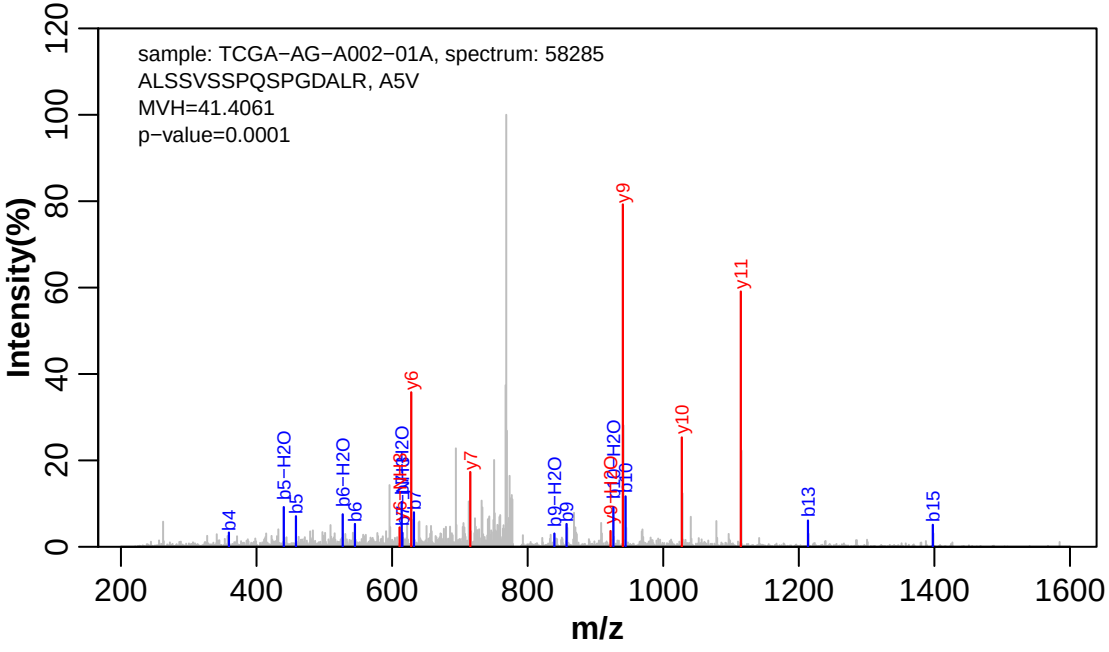

sample: TCGA−AG−A002−01A, spectrum: 6432
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=62.4214
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b9
b8
b7
b7−H2O
b6
b5
b4
y6
y5
y4
y3
b16++−H2O
b9−H2O
b17++
b21++
b11−NH3
b13−H2O
b26++
b27++−H2O
b28++−H2O
y13
y12
b16−NH3

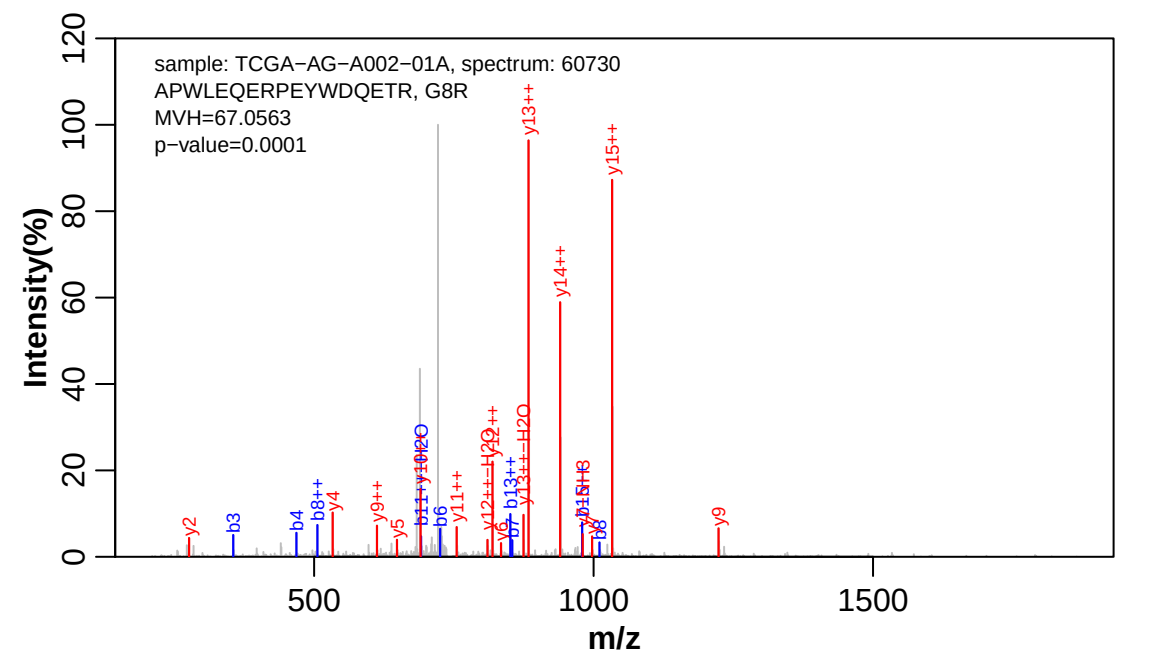

sample: TCGA−AG−A002−01A, spectrum: 127669
AAAPAPVSEAVSR, C12S
MVH=49.3690
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b5
b7
b8−NH3
y8
y10

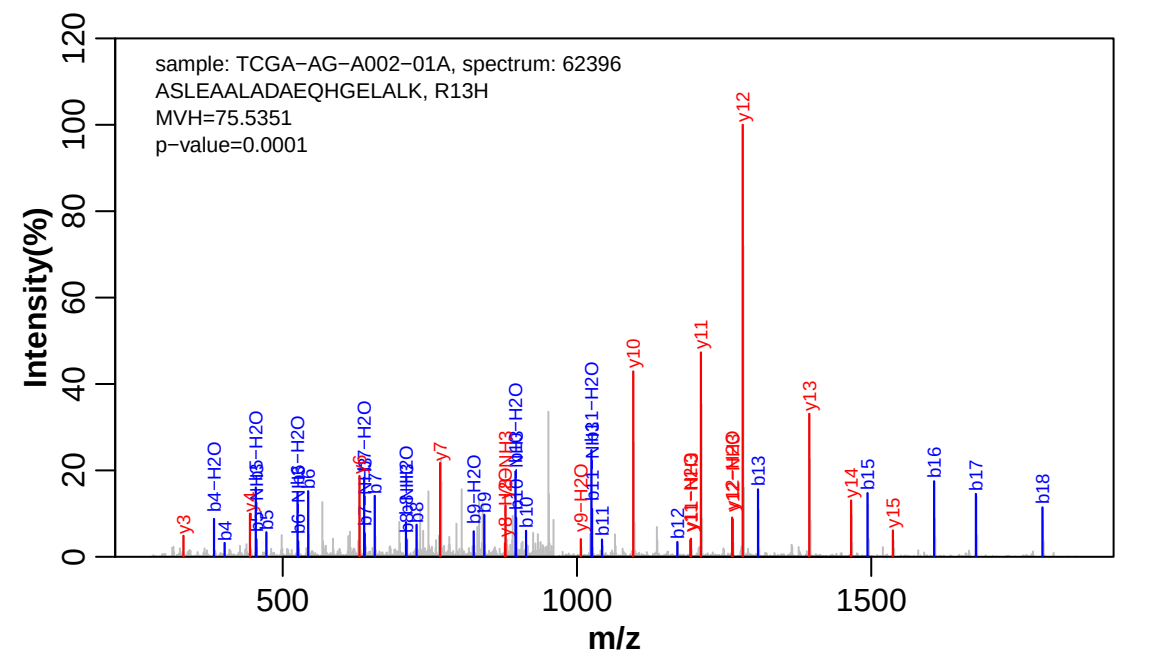

sample: TCGA−AG−A002−01A, spectrum: 142449
AAPSVTLFPPSSEELQANK, T2A
MVH=57.1900
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8
b8−H2O

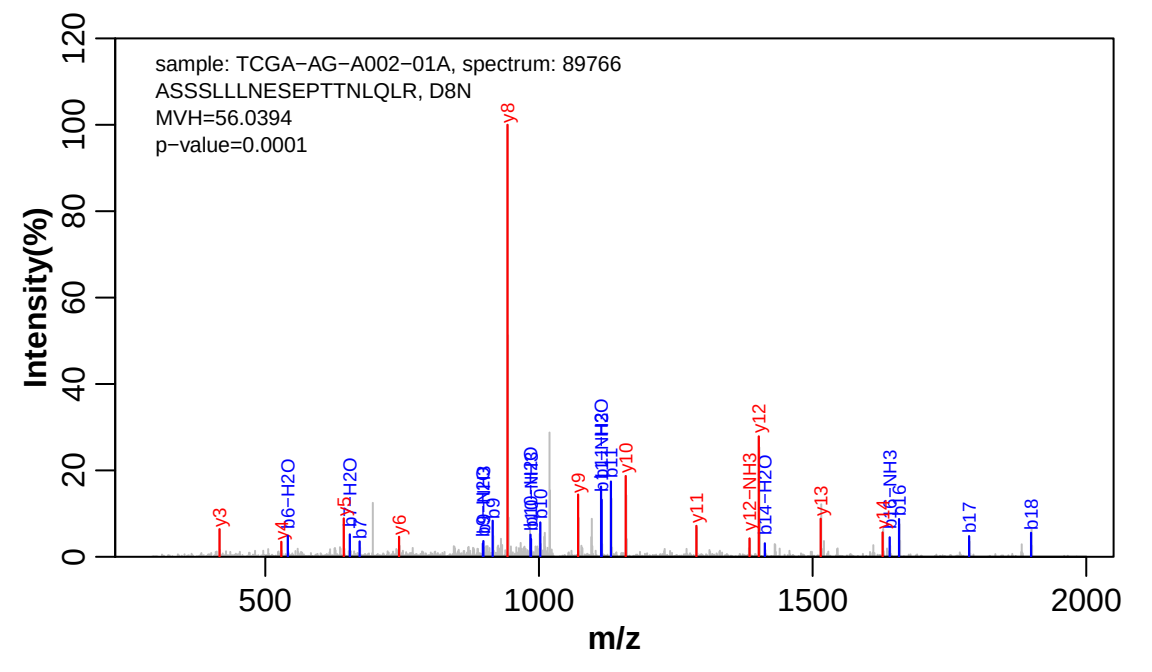

sample: TCGA−AG−A002−01A, spectrum: 44820
AGVETTTPSK, K7T
MVH=50.4177
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

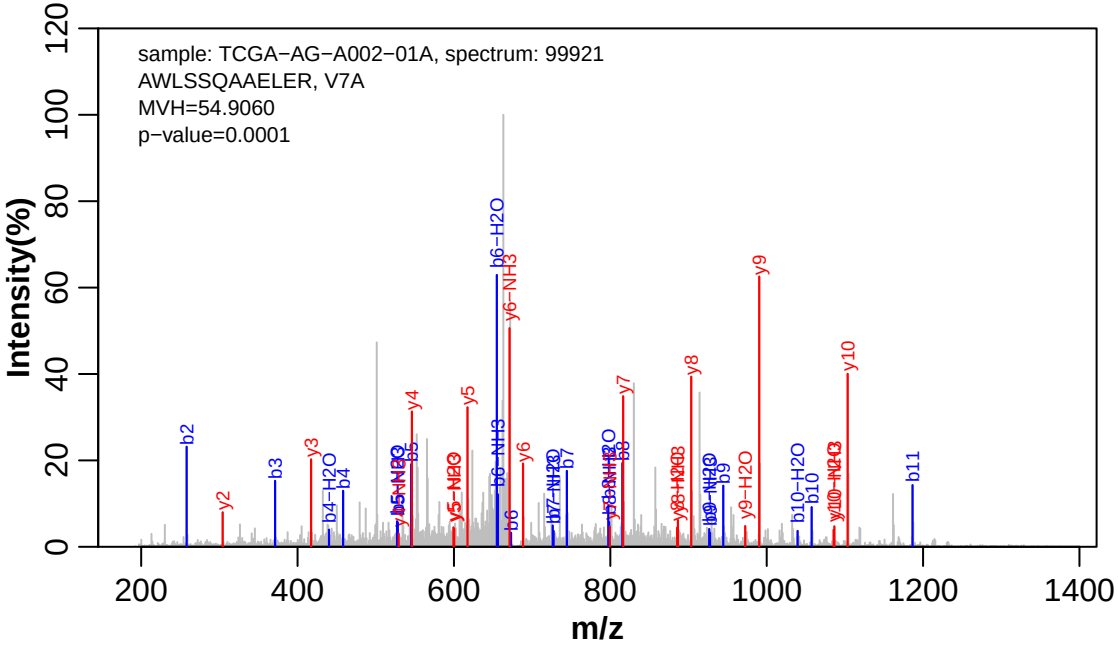

sample: TCGA−AG−A002−01A, spectrum: 133506
ALEDVFDALEGK, M5V
MVH=51.0410
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
b5
y6
b6
y7
b7
b8−H2O
b8
y8
b9−H2O
y9−H2O
b9
y9
y10−H2O
y10
b11

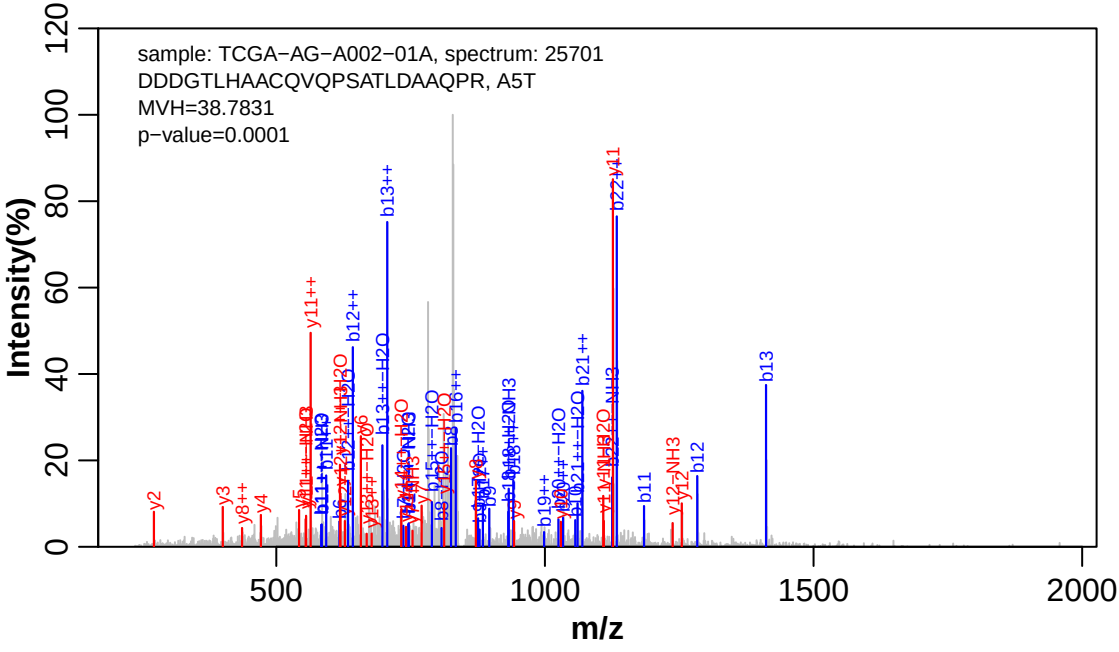

sample: TCGA−AG−A002−01A, spectrum: 58285
ALSSVSSPQSPGDALR, A5V
MVH=41.4061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
b5−H2O
b5
b6−H2O
b6
y6
y7
b8−H2O
b9
y9
y9−H2O
b10
y10
y11
b13
b15

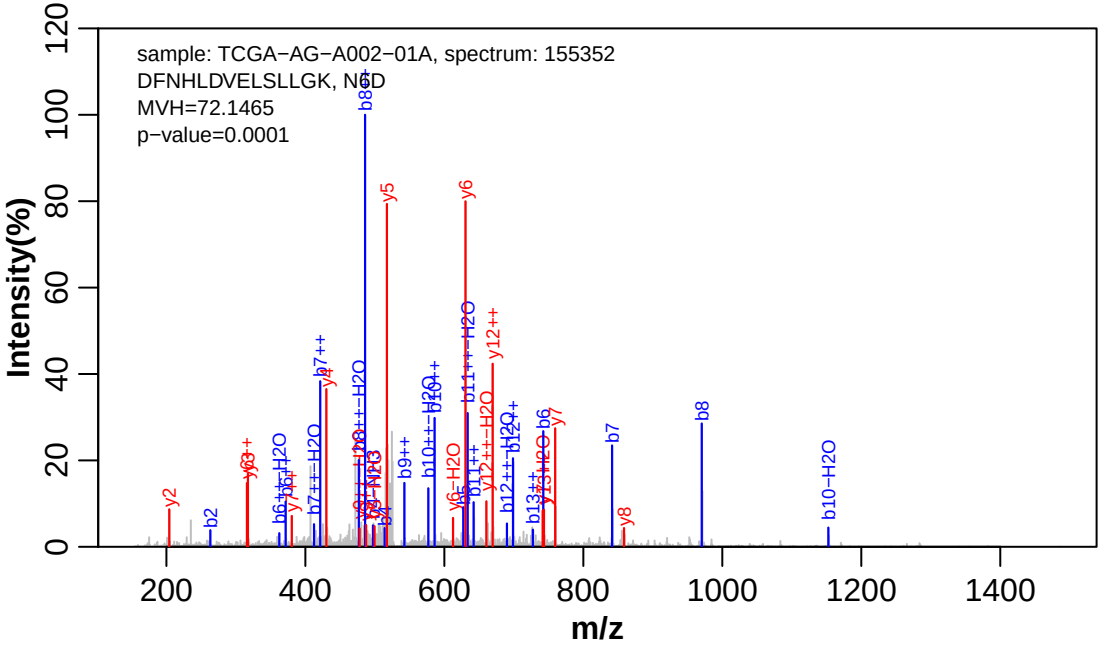

sample: TCGA−AG−A002−01A, spectrum: 60730
APWLEQERPEYWDQETR, G8R
MVH=67.0563
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
b3
b4
b8++
y4
y9++
y5
b11++−H2O
b6
y11++
y12++−H2O
y12++
y6
b7
b13++
y13++−H2O
y13++
y14++
y15++
y9

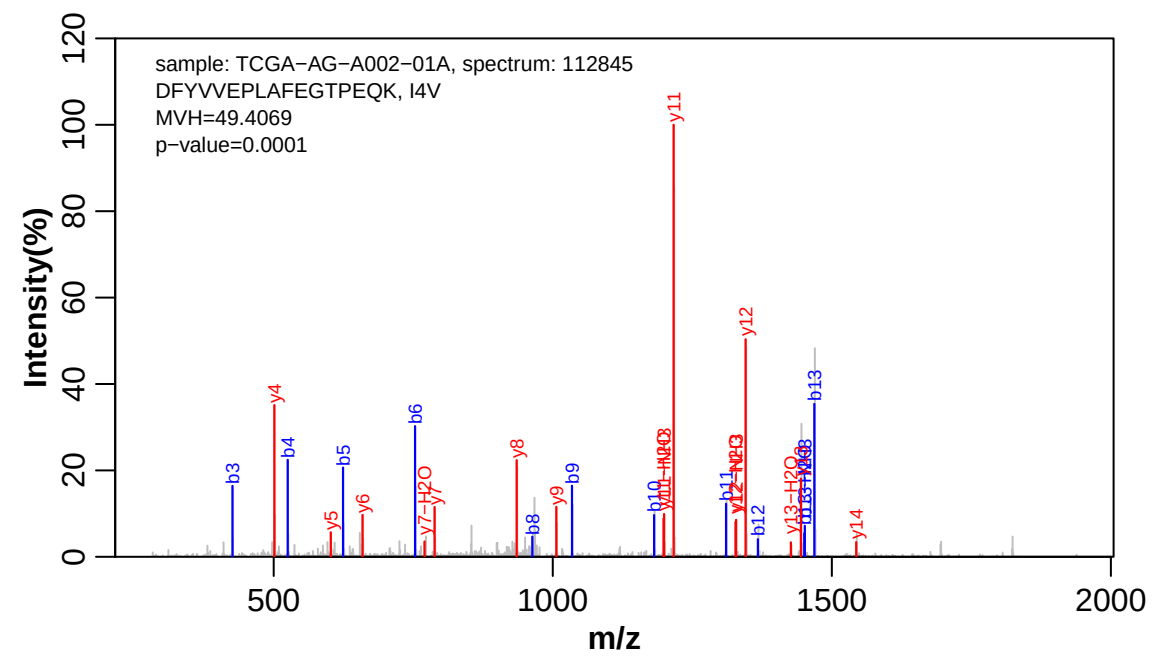

sample: TCGA−AG−A002−01A, spectrum: 62396
ASLEAALADAEQHGELALK, R13H
MVH=75.5351
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4−H2O
b4
y4
b5−H2O
b5
b6−H2O
b6
b7−H2O
b7
y7
b9−H2O
b9
y8−H2O
b10−H2O
b10
y9−H2O
b11−H2O
b11
y10
b12
y11−NH3
y11
y12−H2O
y12−NH3
y12
b13
y13
y14
b15
y15
b16
b17
b18

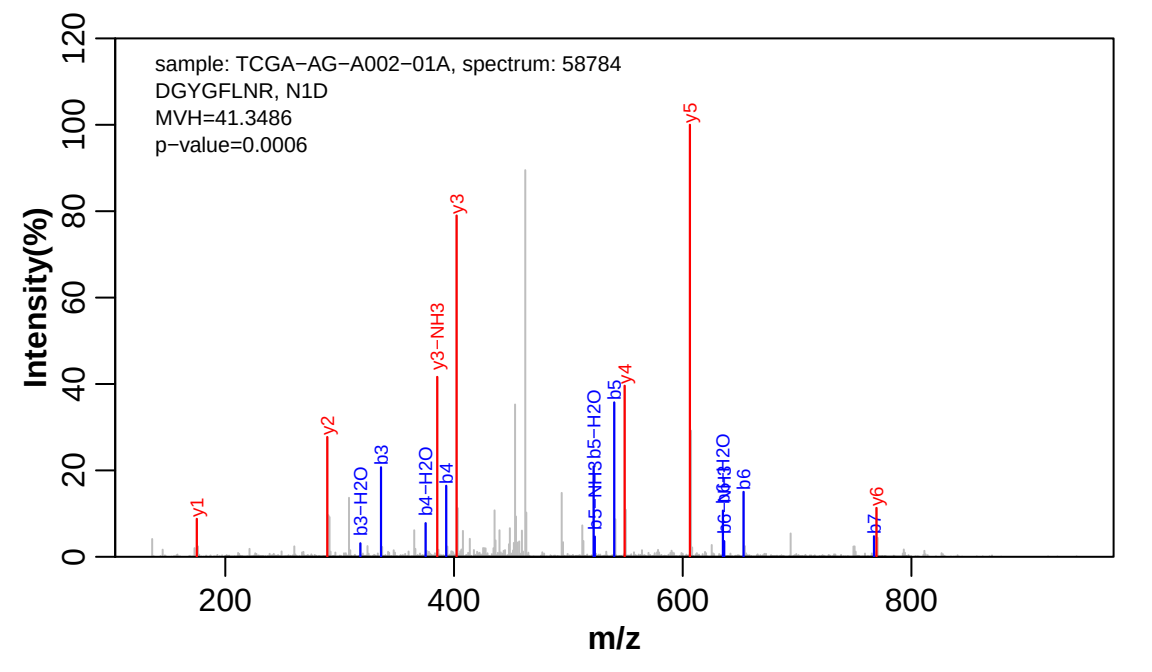

sample: TCGA−AG−A002−01A, spectrum: 89766
ASSSLLLNESEPTTNLQLR, D8N
MVH=56.0394
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
y6−H2O
y5
b5−H2O
b7
y6
b9−NH3
b9
b10−NH3
b10
y9
b11−NH3
b11−H2O
b11
y10
y11
y12−NH3
y12
b14−H2O
y13
y14
b16−NH3
b16
b17
b18

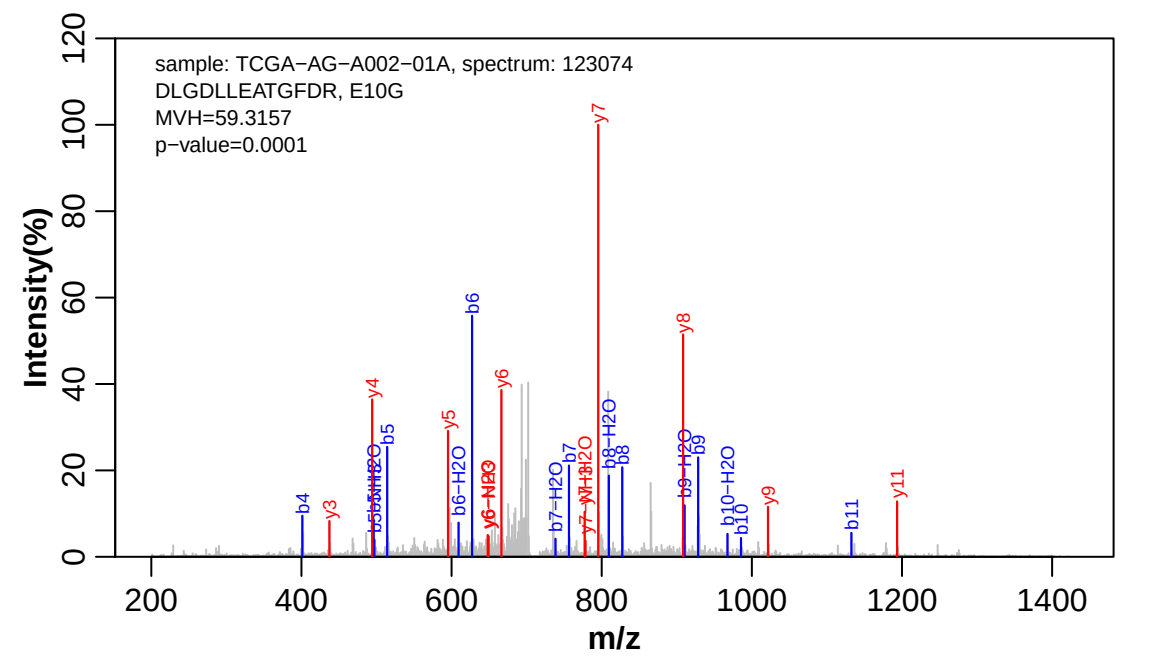

sample: TCGA−AG−A002−01A, spectrum: 99921
AWLSSQAAELER, V7A
MVH=54.9060
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4−H2O
b4
y4
y5
b6−H2O
b6−NH3
y6−NH3
b6
y6
b7
y7
b8
y8
y9
y9−H2O
b10−H2O
b10
y10
b11

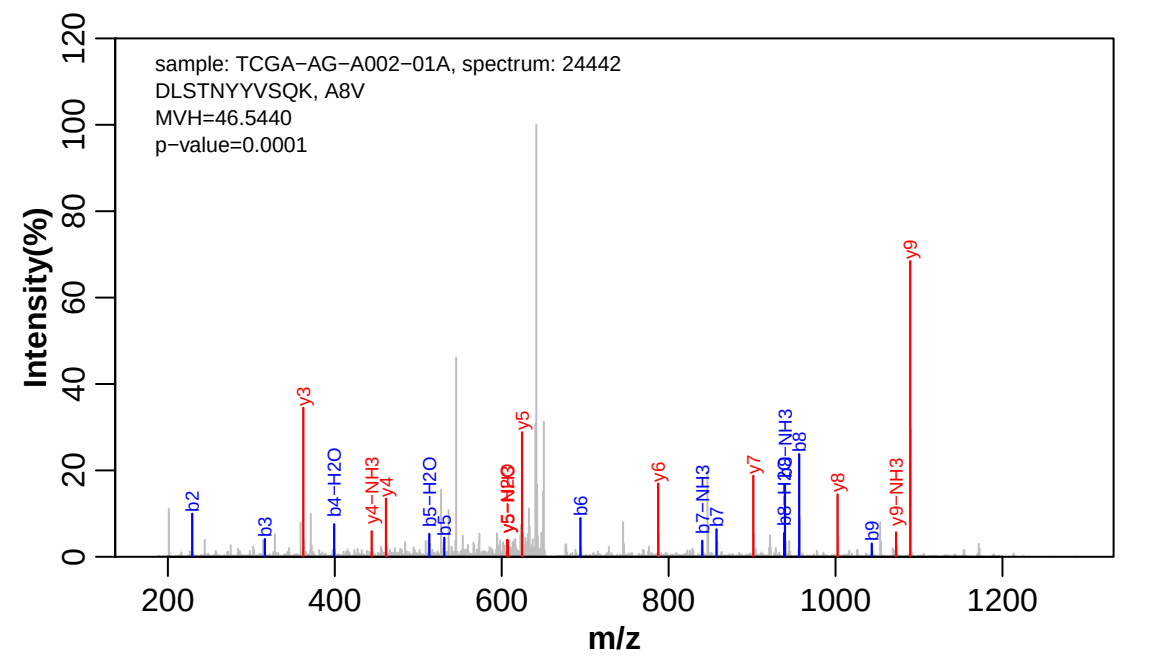

sample: TCGA−AG−A002−01A, spectrum: 25701
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=38.7831
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y8++
y4
y11++
b12++
b13++
b13++ − H2O
b22++
y11
b21++
b21++ − H2O
b13
b11
b12
y12 − NH3
b19++
b19++ − H2O

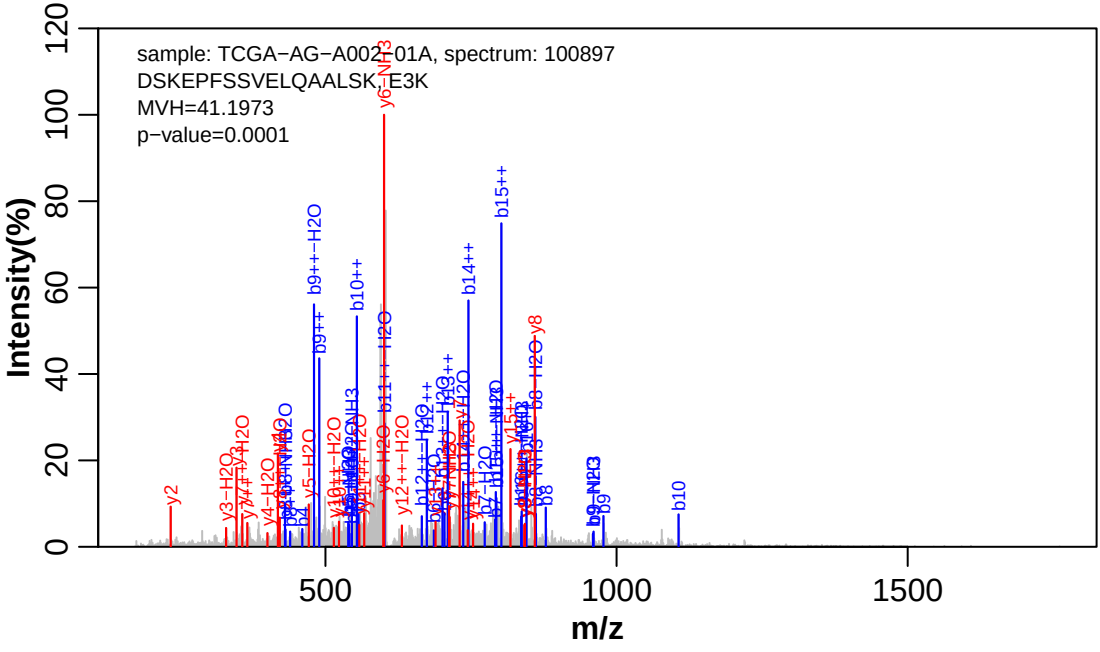

sample: TCGA−AG−A002−01A, spectrum: 155352
DFNHLDVELSLLGK, N6D
MVH=72.1465
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b8++
y5
y6
y12++
y7++
b7++
b8
b7
b10−H2O
y2
b2
y8

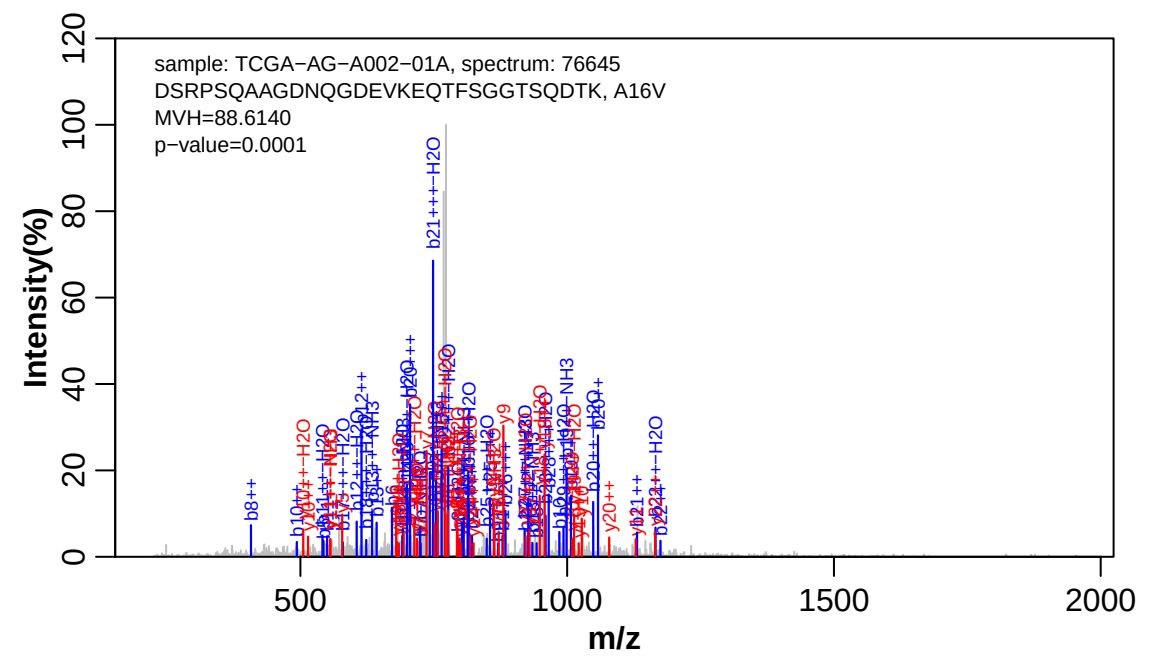

sample: TCGA−AG−A002−01A, spectrum: 112845
DFYVVEPLAFEGTPEQK, I4V
MVH=49.4069
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
b5
y5
y6
b6
y7−H2O
y7
y8
b8
y9
b9
b10
y11
y12
b12
b13
y13−H2O
y14

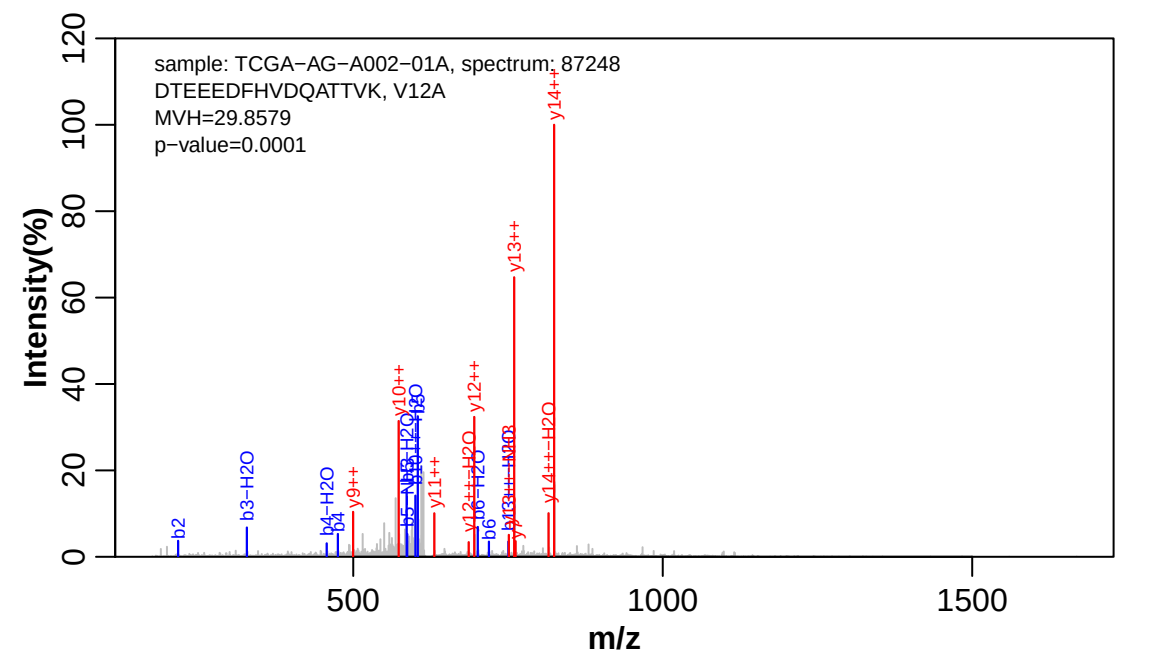

sample: TCGA−AG−A002−01A, spectrum: 58784
DGYGFLNR, N1D
MVH=41.3486
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6
y6
0
20
40
60
80
100
120
200
400
600
800

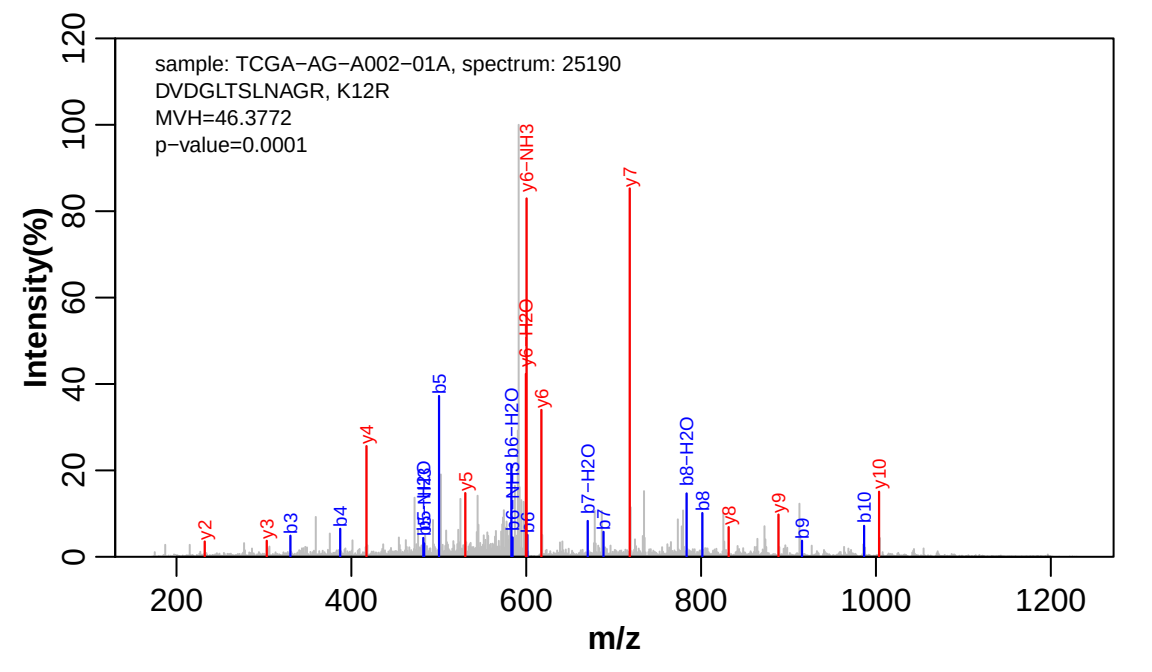

sample: TCGA−AG−A002−01A, spectrum: 123074
DLGDLLEATGFDR, E10G
MVH=59.3157
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y3
y4
b5
b5−NH3
b5−H2O
b6
b6−H2O
y5
y6
y6−NH3
y6−H2O
b7
b7−H2O
y7
y7−NH3
y7−H2O
b8
b8−H2O
y8
b9
b9−H2O
b10
b10−H2O
y9
b11
y11

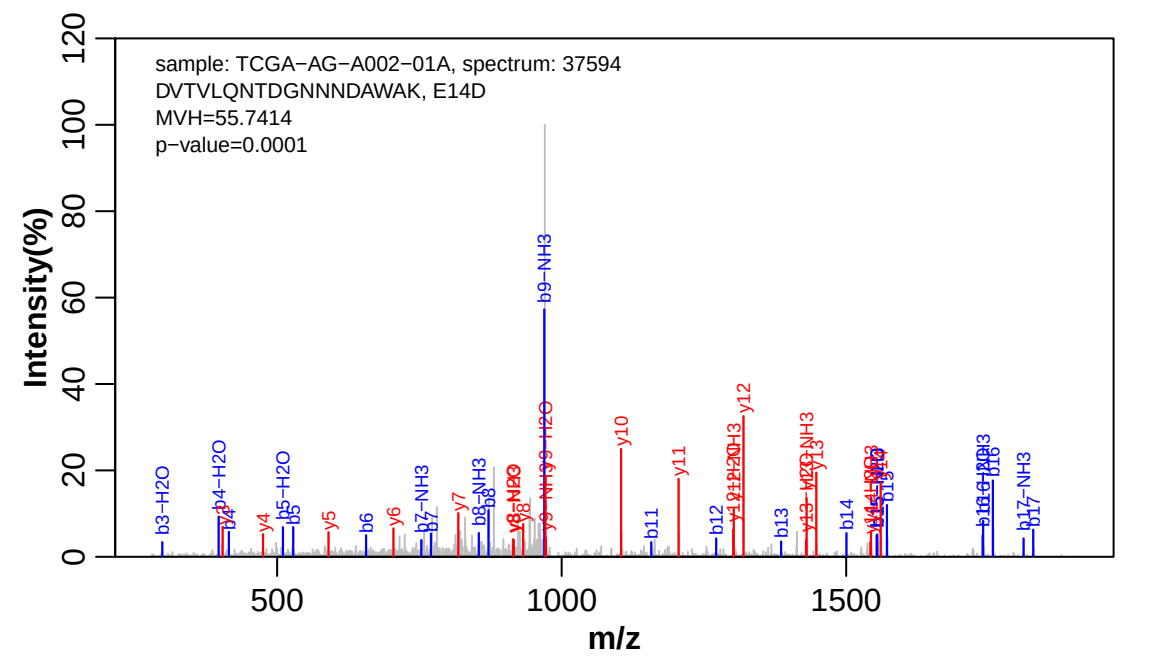

sample: TCGA−AG−A002−01A, spectrum: 24442
DLSTNYYVSQK, A8V
MVH=46.5440
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4−H2O
y4−NH3
y4
b5−H2O
b5
y5−NH3
y5
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9
y9−NH3
y9

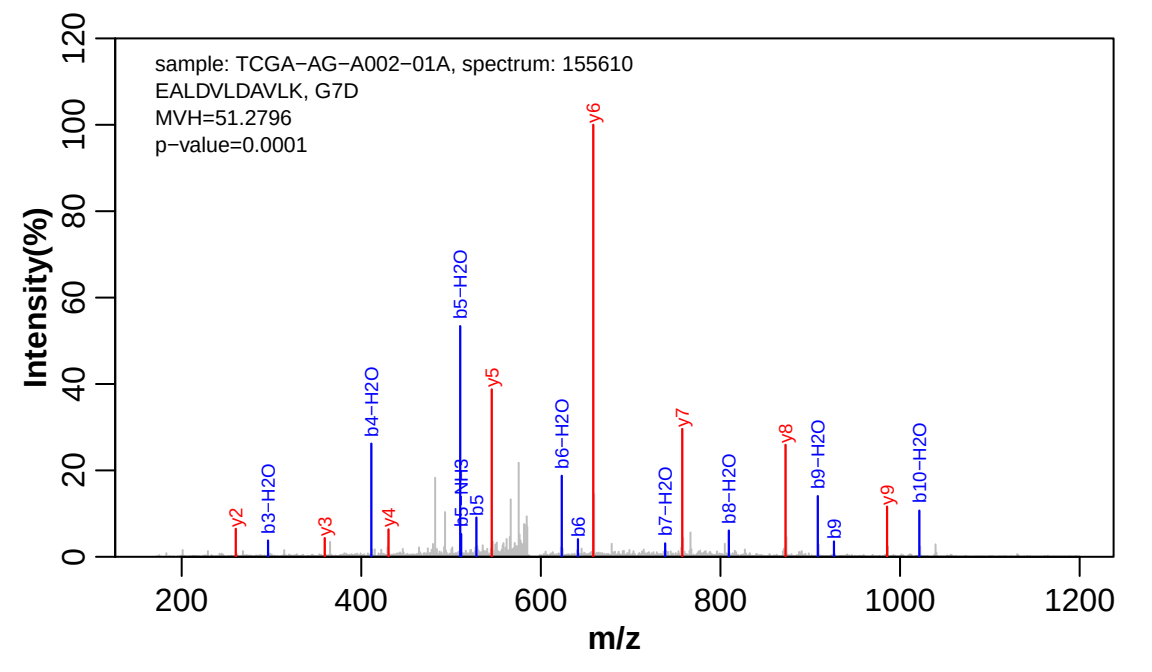

sample: TCGA−AG−A002−01A, spectrum: 100897
DSKEPFSSVELQAALSK_E3K
MVH=41.1973
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3−H2O
y4−H2O
y5−H2O
y6−NH3
y6−H2O
y8
y12++−H2O
b9++−H2O
b9++
b10++
b11++−H2O
b14++
b15++
b10

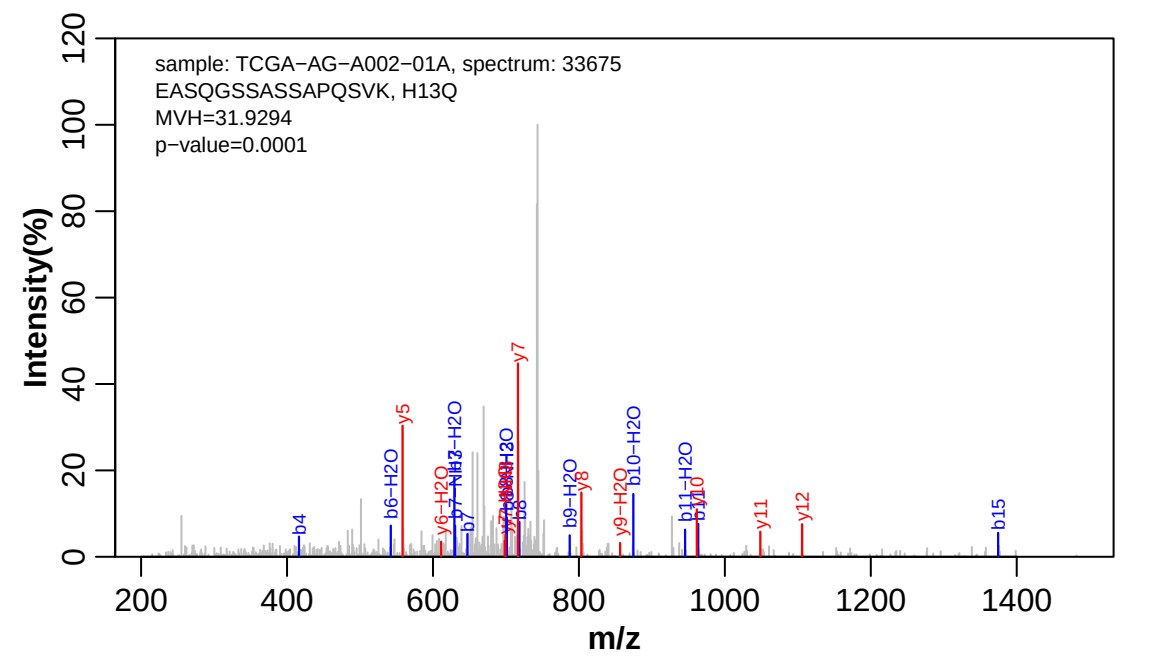

sample: TCGA−AG−A002−01A, spectrum: 76645
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=88.6140
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b21++−H2O
b8++
y20++
y21++
b22++−H2O

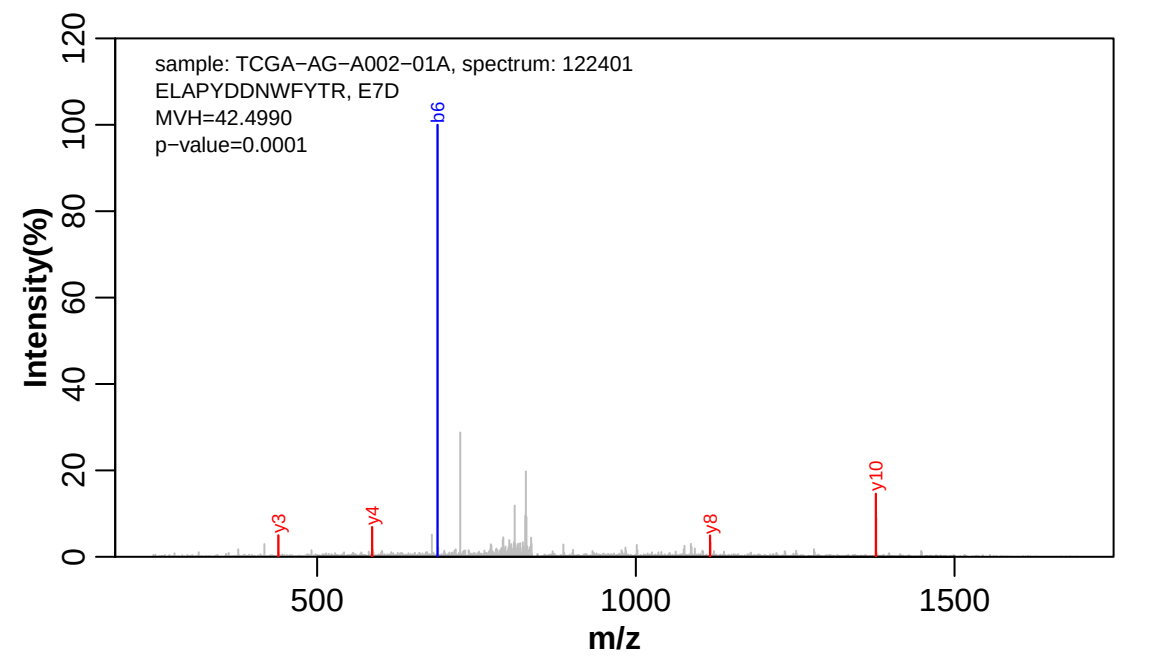

sample: TCGA−AG−A002−01A, spectrum: 87248
DTEEEDFHVDQATTVK, V12A
MVH=29.8579
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3−H2O
b4−H2O
b4
y9++
y10++
y11++
y12++−H2O
y12++
b6−H2O
y13++
y13++−H2O
y14++−H2O
y14++

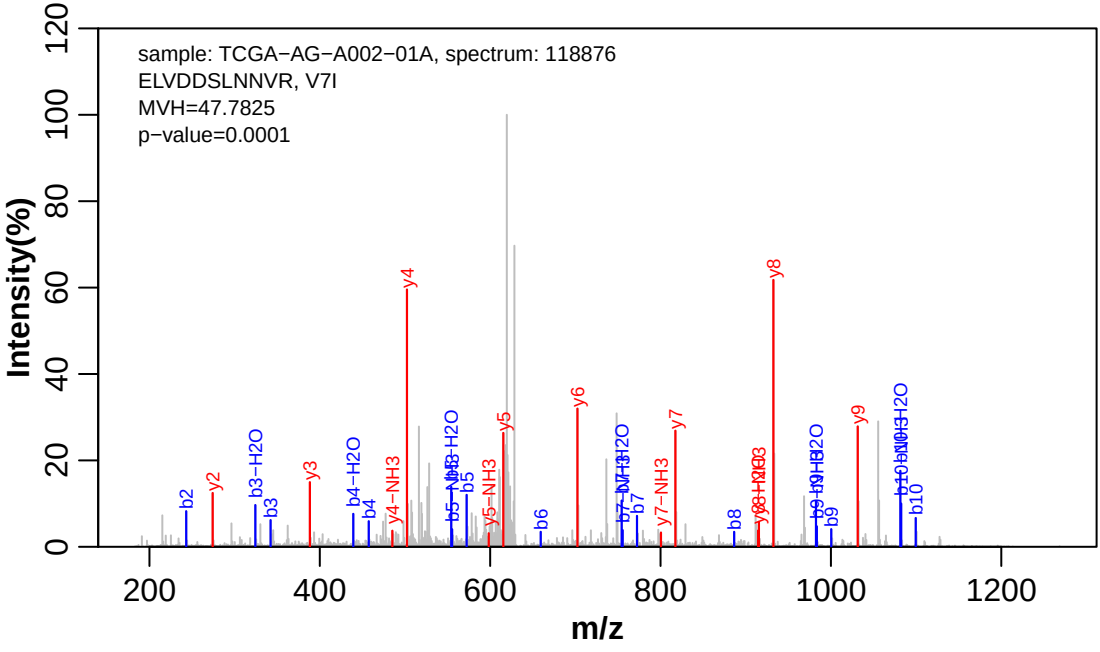

sample: TCGA−AG−A002−01A, spectrum: 25190
DVDGLTSLNAGR, K12R
MVH=46.3772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b3
b4
y4
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6−H2O
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
y9
b9
b10
y10

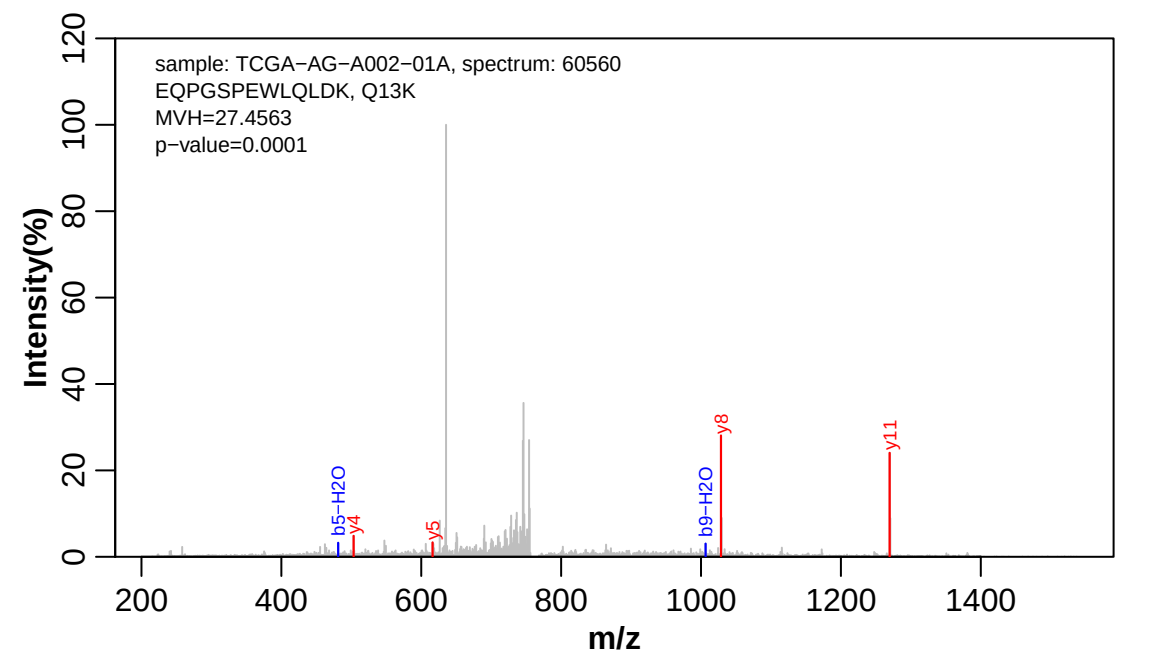

sample: TCGA−AG−A002−01A, spectrum: 37594
DVTVLQNTDGNNNDAWAK, E14D
MVH=55.7414
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b4−H2O
b5−H2O
y4
y5
b6
y6
b7−NH3
y7
b8−NH3
b9−NH3
y10
b11
y11
b12
y12
b13
y13
b14
b17−NH3

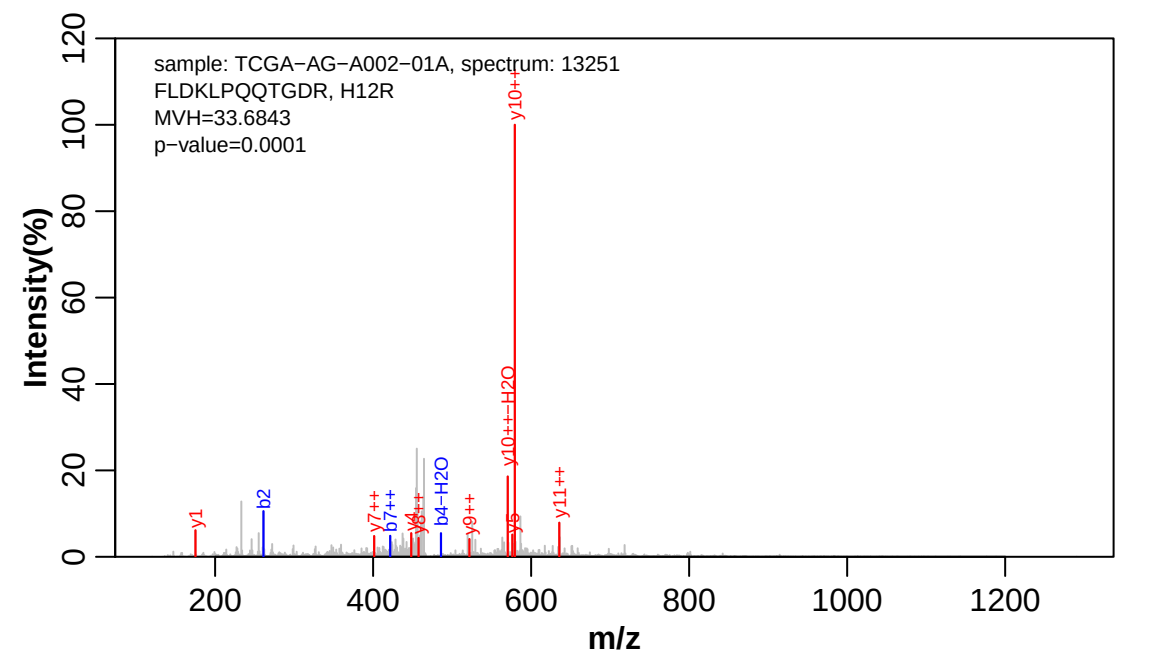

sample: TCGA−AG−A002−01A, spectrum: 155610
EALDVLDAVLK, G7D
MVH=51.2796
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O

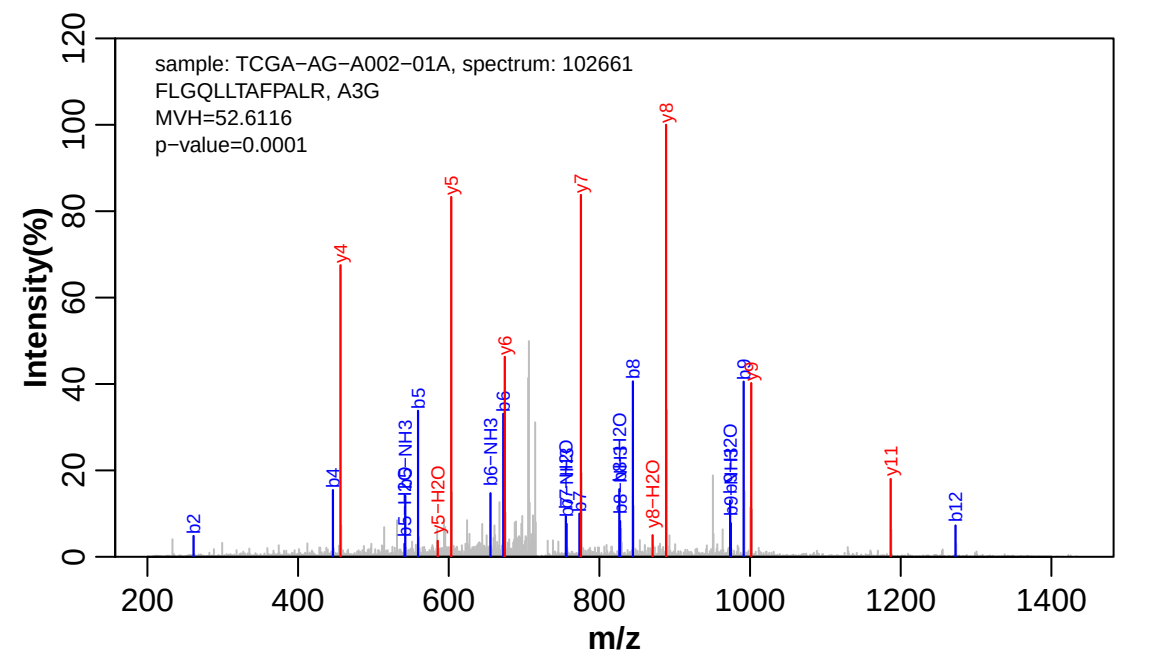

sample: TCGA−AG−A002−01A, spectrum: 33675
EASQGSSASSAPQSVK, H13Q
MVH=31.9294
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
b6−H2O
y5
y6−H2O
b7−NH3
b7−H2O
y7
b8
b9−H2O
y8
y9−H2O
b10−H2O
b11−H2O
b11
y11
y12
b15

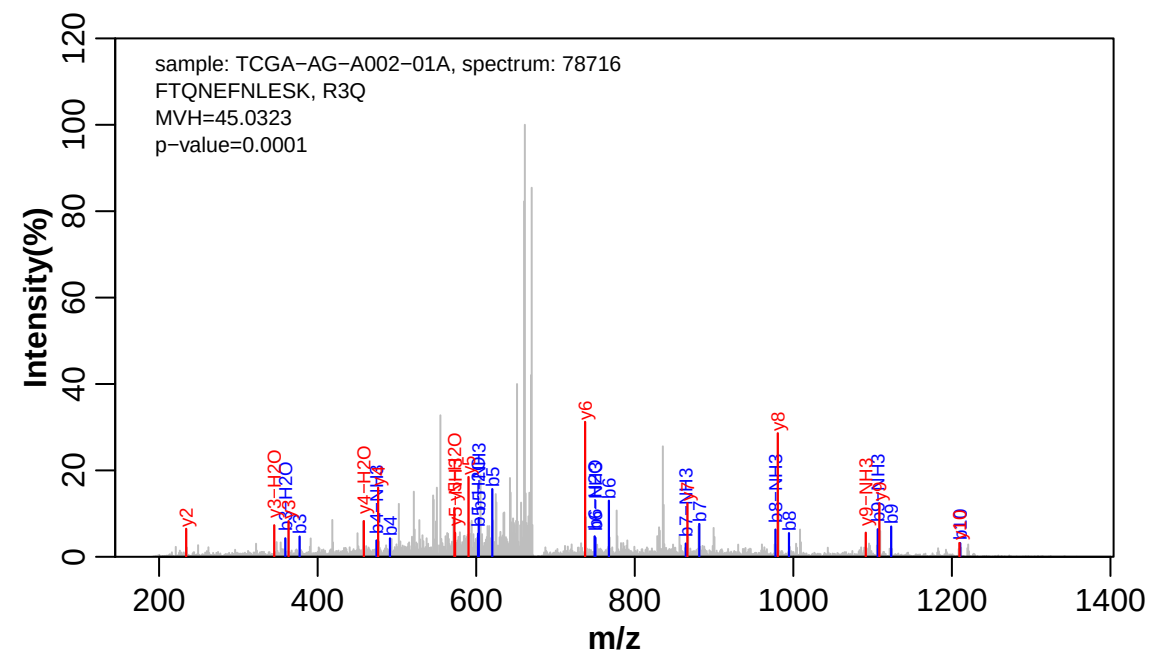

sample: TCGA−AG−A002−01A, spectrum: 122401
ELAPYDDNWFYTR, E7D
MVH=42.4990
p−value=0.0001
b6
y3
y4
y8
y10
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

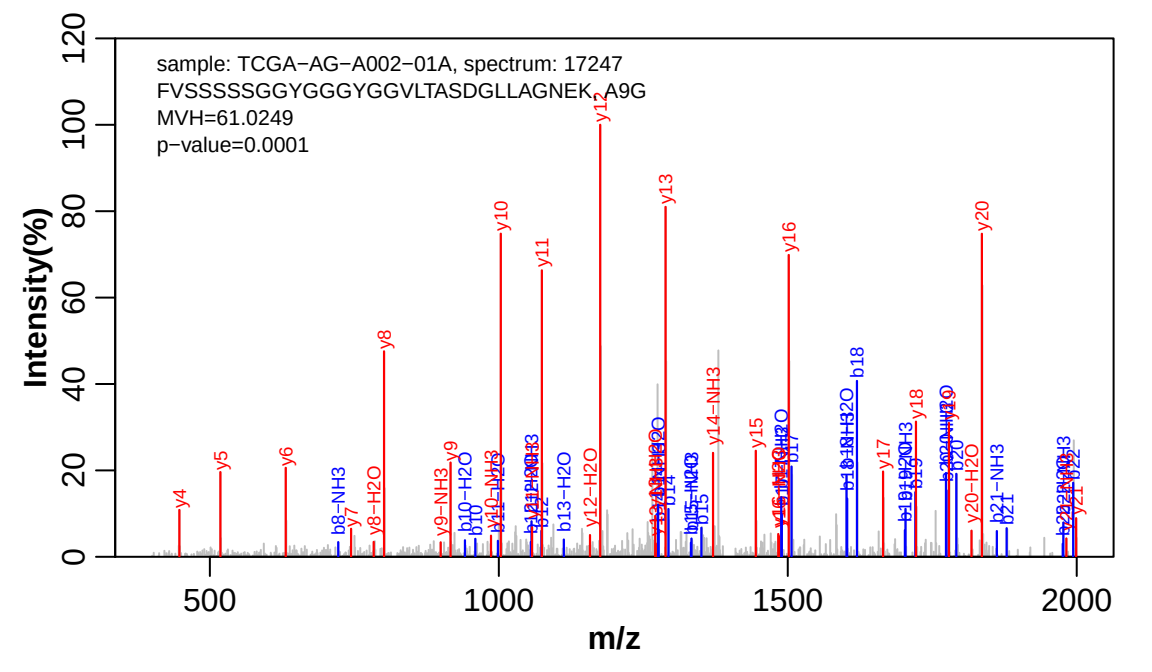

sample: TCGA−AG−A002−01A, spectrum: 118876
ELVDDSLNNVR, V7I
MVH=47.7825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
b6
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7
b8
y8−NH3
y8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

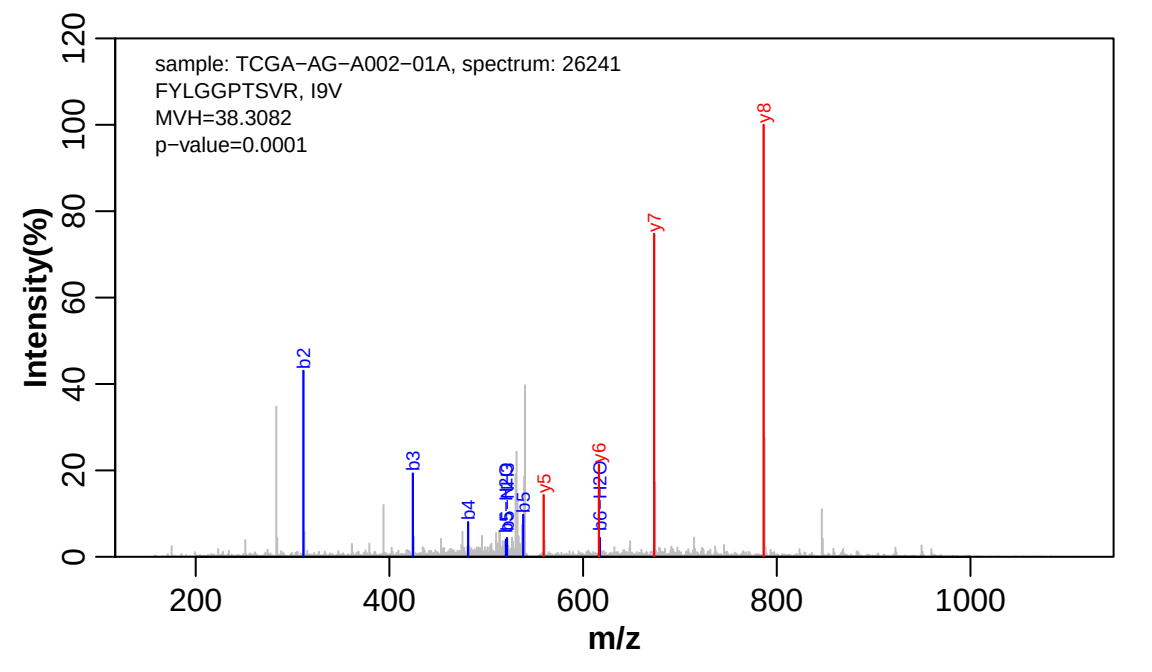

sample: TCGA−AG−A002−01A, spectrum: 60560
EQPGSPEWLQLDK, Q13K
MVH=27.4563
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
b9−H2O
y8
y11

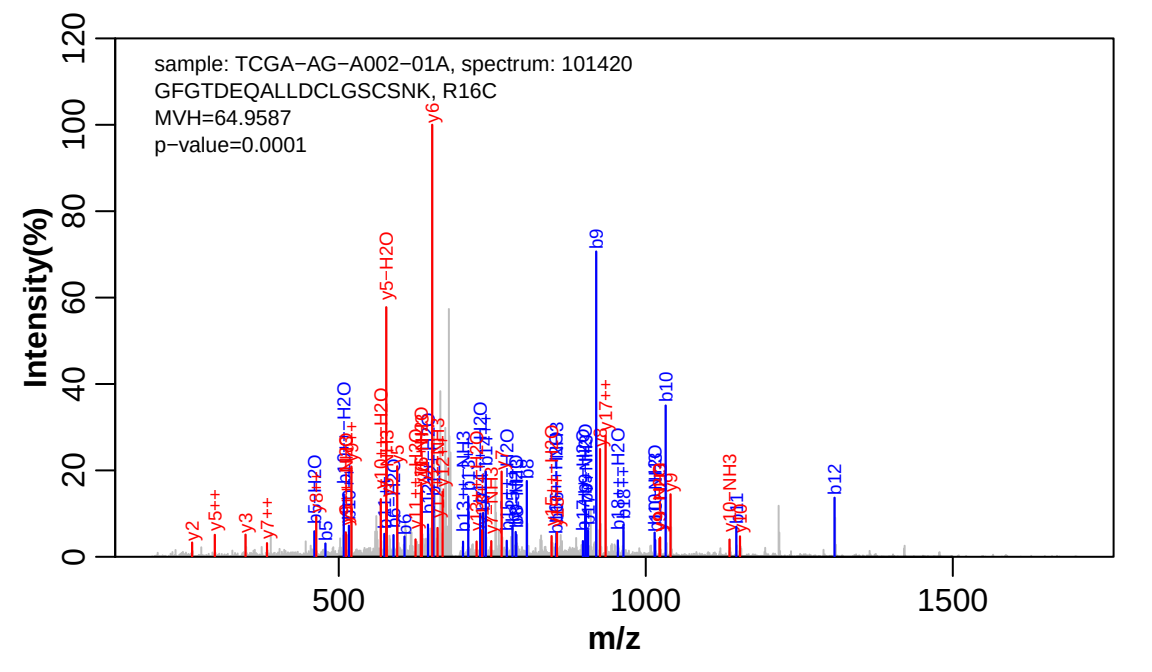

sample: TCGA−AG−A002−01A, spectrum: 13251
FLDKLPQQTGDR, H12R
MVH=33.6843
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
y9++
y8++
y7++
b7++
b4−H2O
b2
y1
y6
0
20
40
60
80
100
120
200
400
600
800
1000
1200

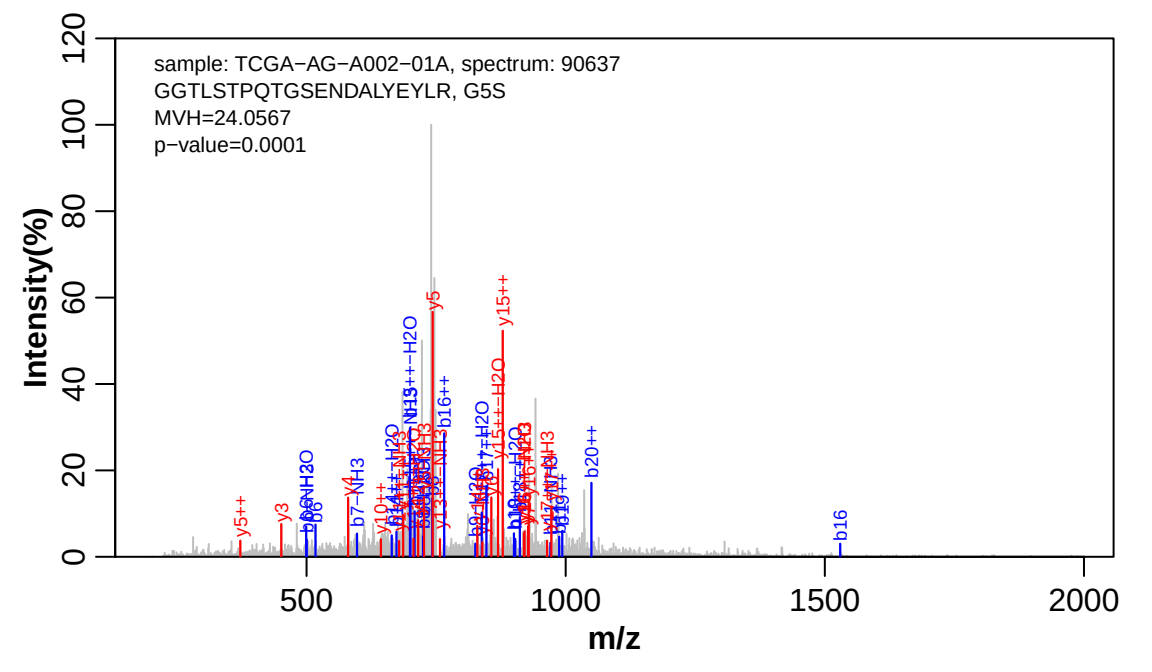

sample: TCGA−AG−A002−01A, spectrum: 102661
FLGQLLTAFPALR, A3G
MVH=52.6116
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
b5
b5−NH3
y5−H2O
y4
y5
b6
b6−NH3
y6
y7
b8
b8−H2O
y8−H2O
y8
b9
b9−NH3
b9−H2O
y9
y11
b12

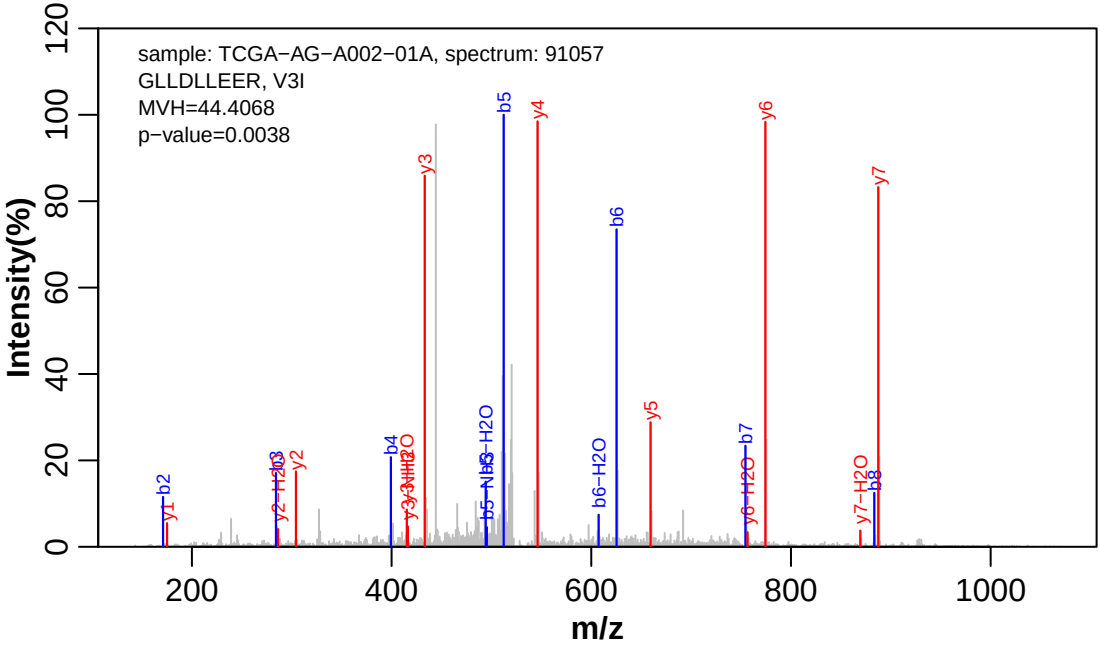

sample: TCGA−AG−A002−01A, spectrum: 78716
FTQNEFNLESK, R3Q
MVH=45.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3−H2O
y3−NH3
b3
y4−H2O
y4−NH3
b4
y5−H2O
y5−NH3
y6
b6−NH3
b6
b7−NH3
b7
y8
b8−NH3
b8
y8−NH3
y9
y9−NH3
b9
y10

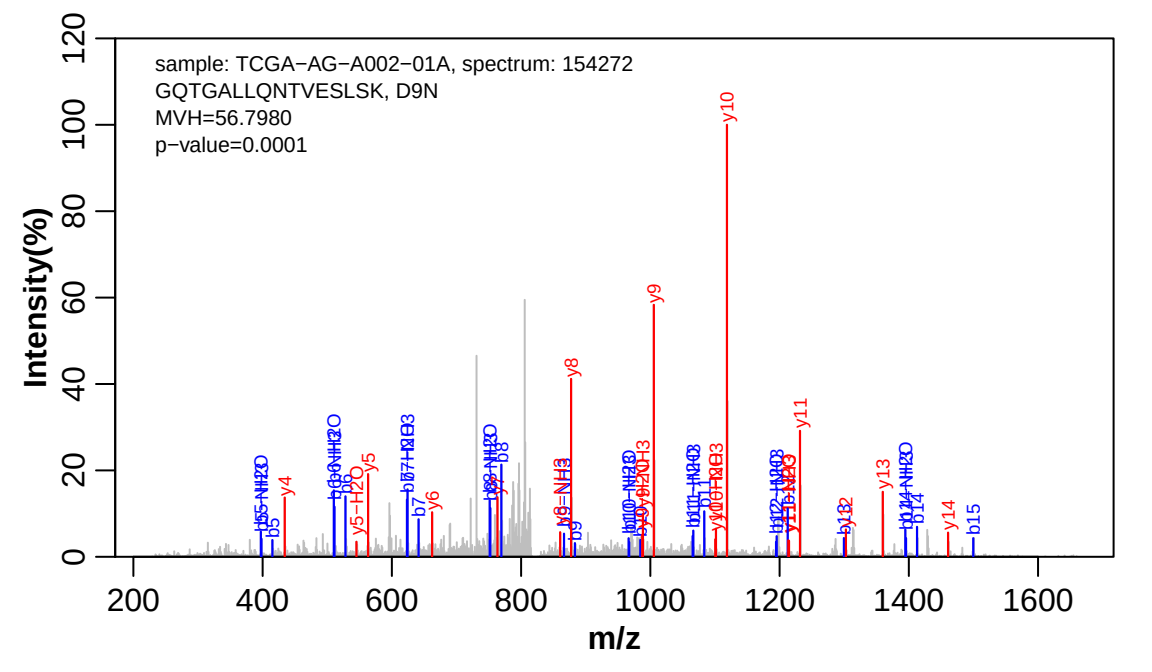

sample: TCGA−AG−A002−01A, spectrum: 17247
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=61.0249
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
b8−NH3
y7
y8−H2O
y8
y9−NH3
y9
b10−H2O
b10
b10−NH3
y10
b12
b13−H2O
y11
y12−H2O
y12
b14
b15
y13
y14−NH3
y15
y16
b18
y17
y18
y20
y20−H2O
b21−NH3
b21

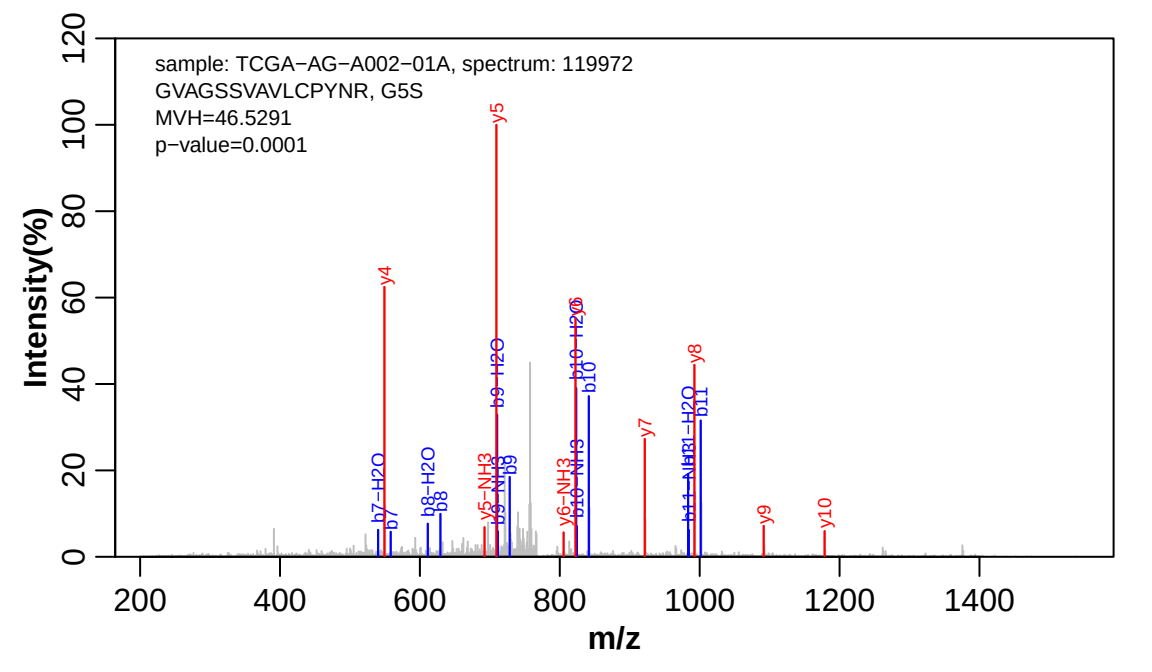

sample: TCGA−AG−A002−01A, spectrum: 26241
FYLGGPTSVR, I9V
MVH=38.3082
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
y6
y7
y8

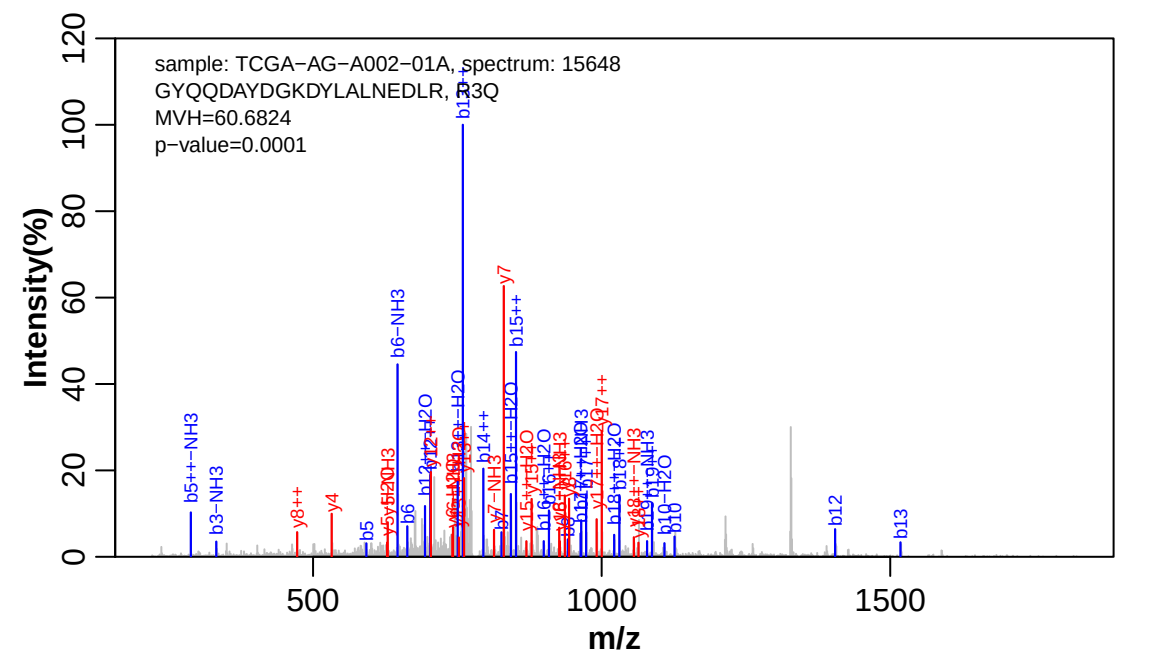

sample: TCGA−AG−A002−01A, spectrum: 101420
GFGTDEQALLDCLGSCSNK, R16C
MVH=64.9587
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y2
y5++
y3
y7++
y17++
y10−NH3

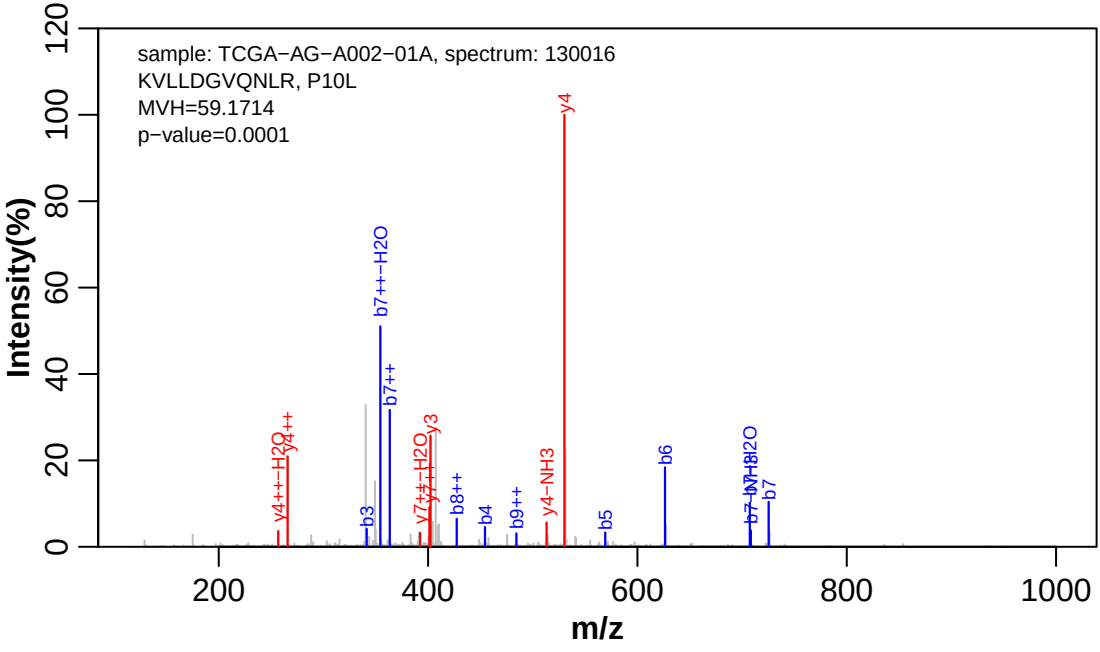

sample: TCGA−AG−A002−01A, spectrum: 90637
GGTLSTPQTGSENDALYEYLR, G5S
MVH=24.0567
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5++
y3
y5
y15++
y15++−H2O
b16++
b20++
b16

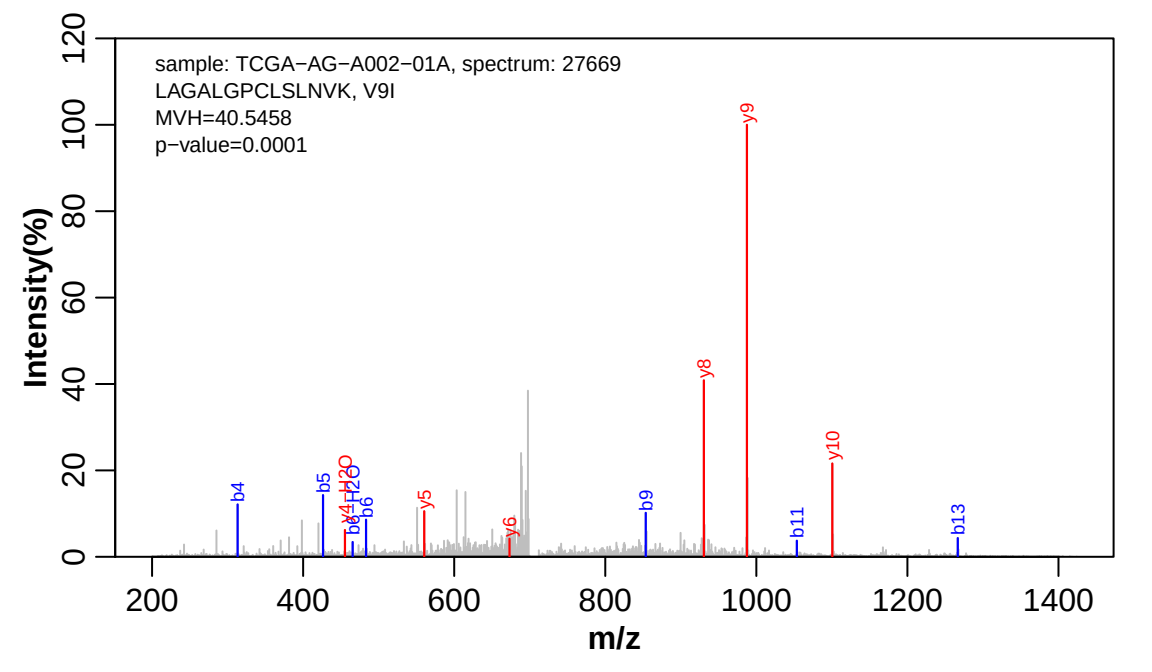

sample: TCGA−AG−A002−01A, spectrum: 91057
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2−H2O
y2
b4
y3−NH3
y3−H2O
y3
b5
y4
b5−NH3
b5−H2O
b6
b6−H2O
y5
y6−H2O−b7
y6
y7−H2O
b8
y7

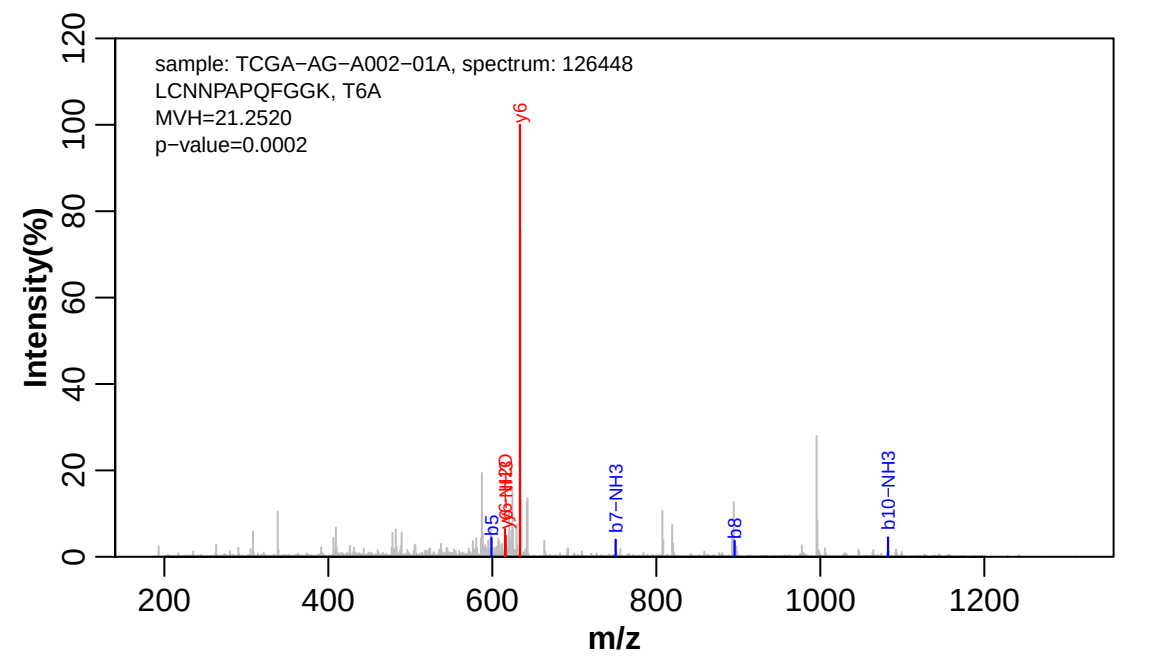

sample: TCGA−AG−A002−01A, spectrum: 154272
GQTGALLQNTVESLSK, D9N
MVH=56.7980
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y4
y5
y6
b7
b8
b5
b6

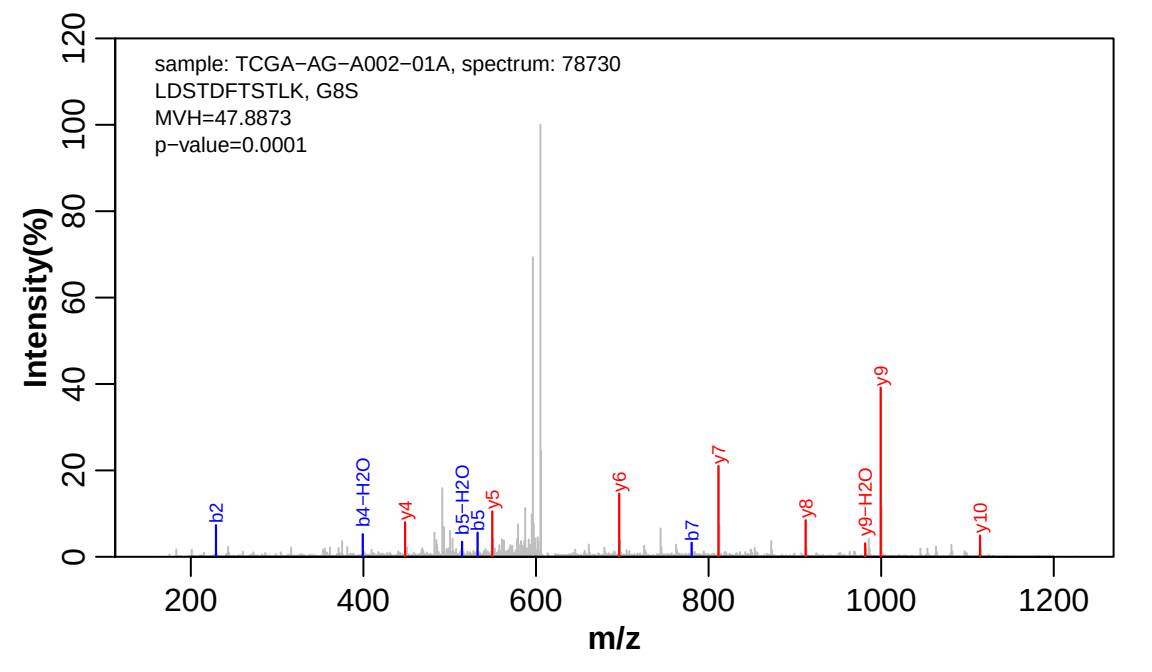

sample: TCGA−AG−A002−01A, spectrum: 119972
GVAGSSVAVLCPYNR, G5S
MVH=46.5291
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
y8
y7
y9
y10
b7−H2O
b7
b8−H2O
b8
y5−NH3
b9−H2O
b9
y6−NH3
b10−NH3
b10−H2O
b10
b11
b11−NH3
b11−H2O

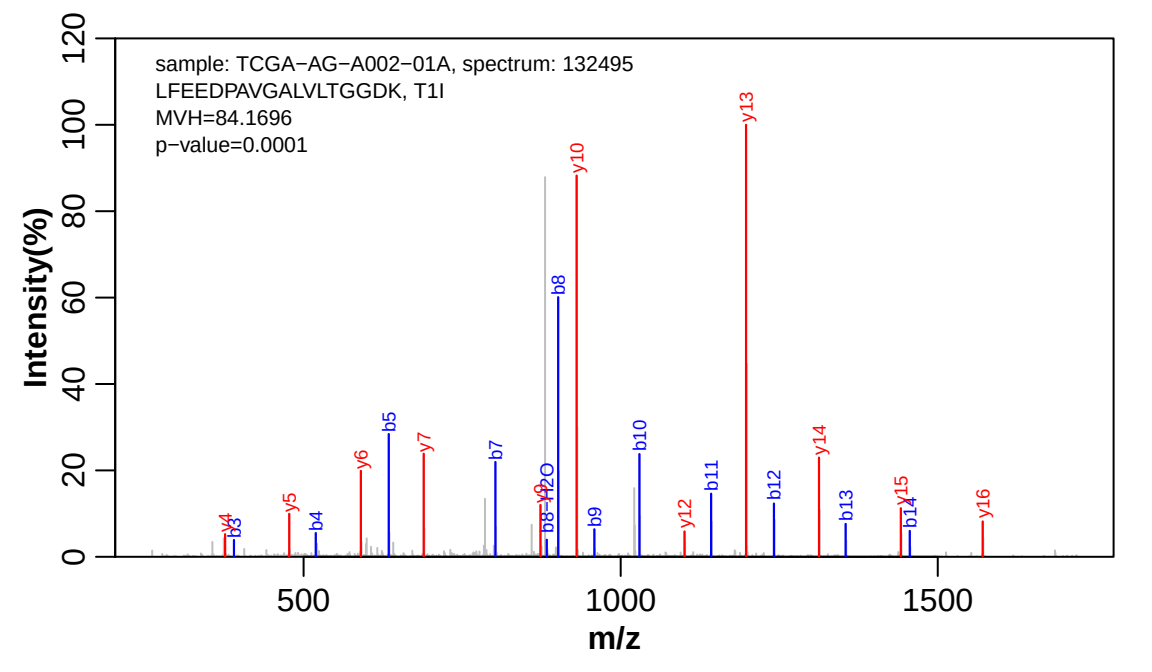

sample: TCGA−AG−A002−01A, spectrum: 15648
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=60.6824
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
b3−NH3
y8++
y4
b5
b6
b6−NH3
b12++
b12++−H2O
y12++
y10++
y8++−H2O
b14++
y7−NH3
b15++−H2O
y7
b15++
y15++−H2O
b16++−H2O
b17++−H2O
b17++−NH3
b18++−H2O
y17++
b18++
b19++−NH3
b19++
b10−H2O
b10
b12
b13

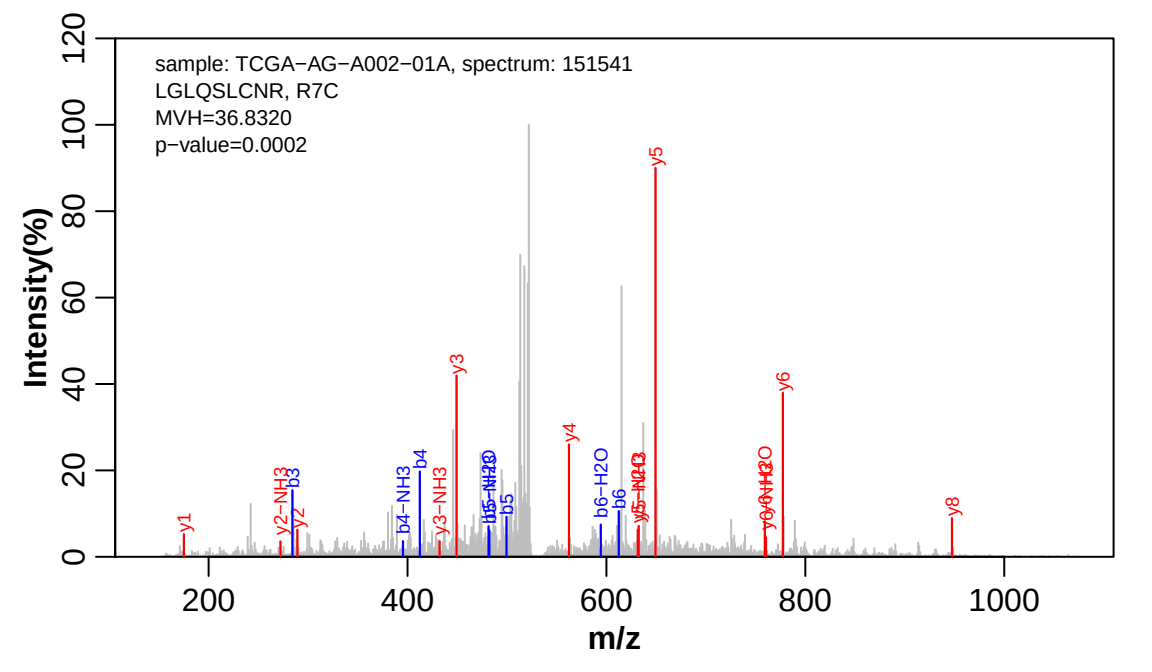

sample: TCGA−AG−A002−01A, spectrum: 130016
KVLLDGVQNLR, P10L
MVH=59.1714
p−value=0.0001
Intensity(%)
m/z
y4
b7++−H2O
b7++
y4++−H2O
y4++
y7++−H2O
y7++
y3
b3
b8++
b4
b9++
y4−NH3
b5
b6
b7−NH3
b7−H2O
b7

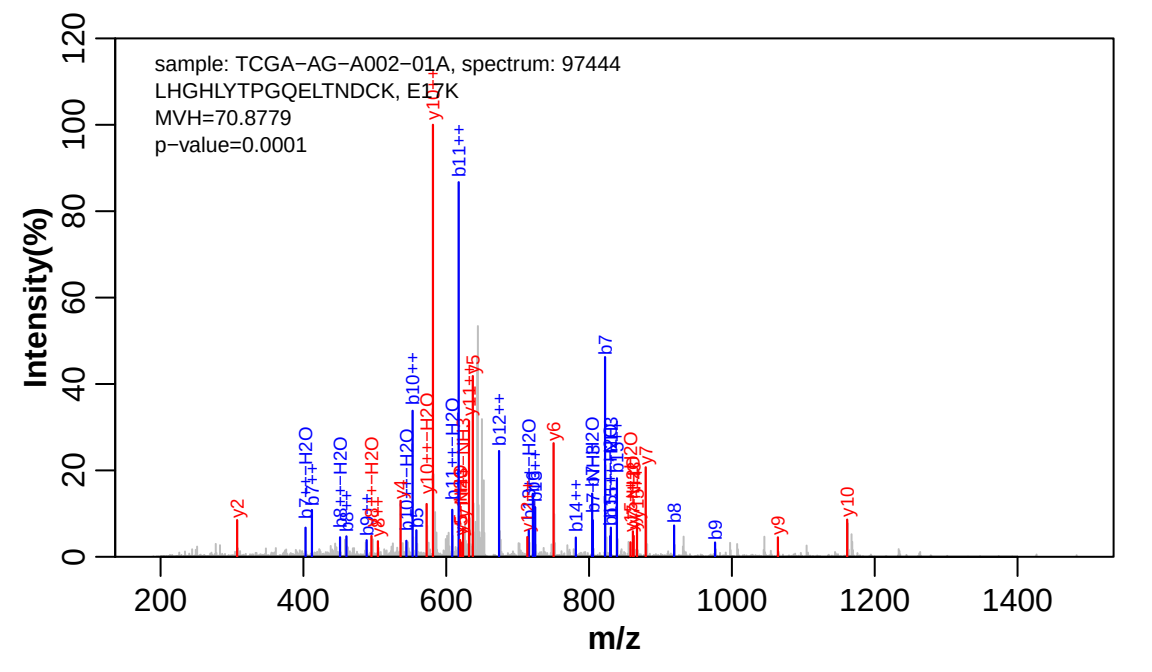

sample: TCGA−AG−A002−01A, spectrum: 27669
LAGALGPCLSLNVK, V9I
MVH=40.5458
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
b5
y4−H2O
b6
y5
y6
b9
y8
y9
y10
b11
b13

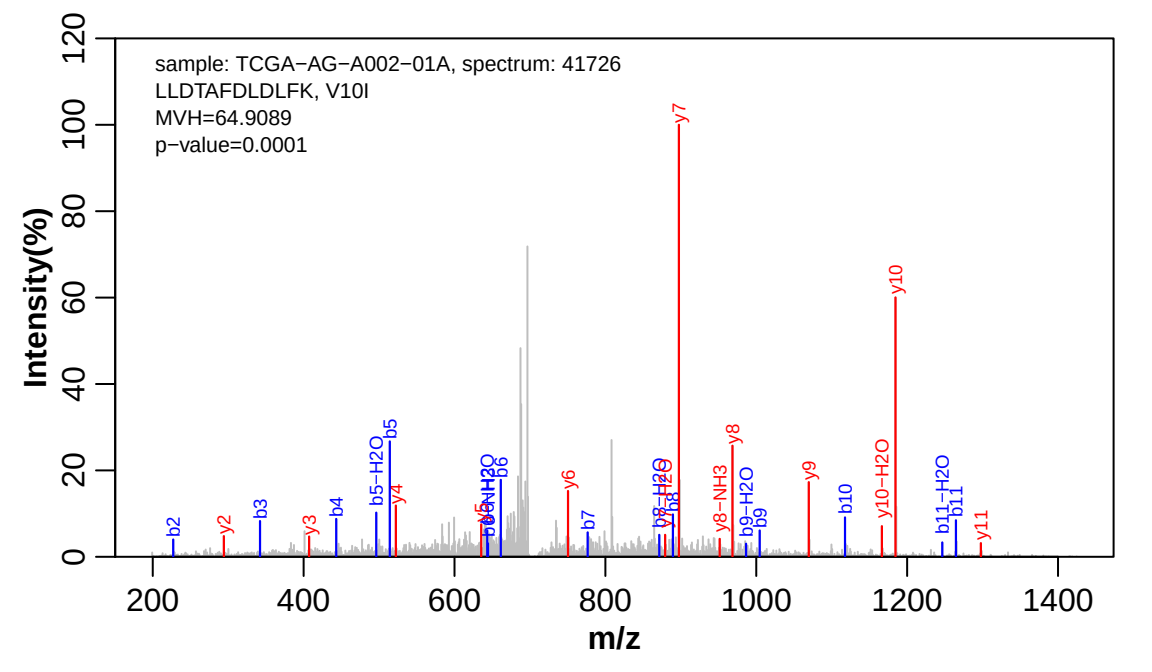

sample: TCGA−AG−A002−01A, spectrum: 126448
LCNNPAPQFGGK, T6A
MVH=21.2520
p−value=0.0002
y6
b5
b7−NH3
b8
b10−NH3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

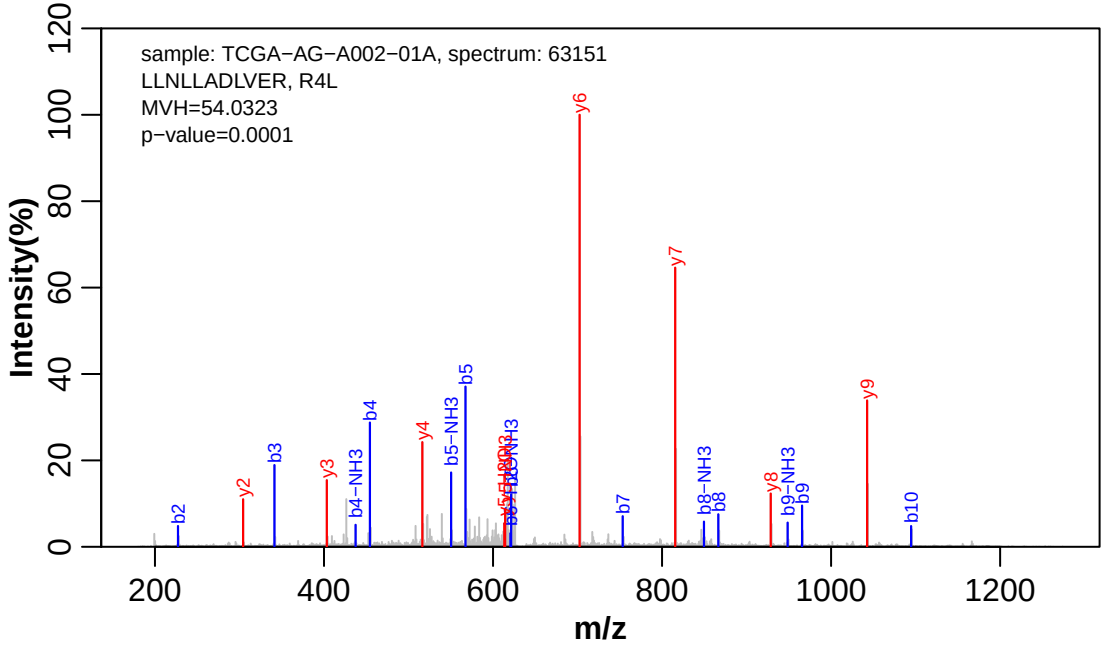

sample: TCGA−AG−A002−01A, spectrum: 78730
LDSTDFTSTLK, G8S
MVH=47.8873
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
b7
y7
y8
y9−H2O
y9
y10

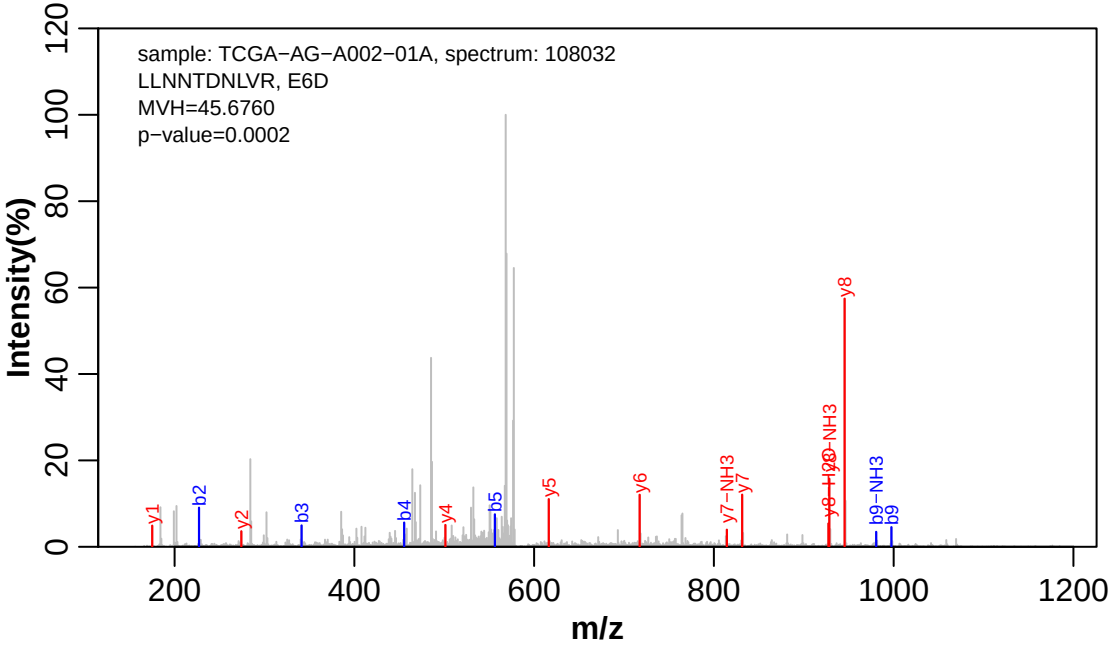

sample: TCGA−AG−A002−01A, spectrum: 132495
LFEEDPAVGALVLTGGDK, T1I
MVH=84.1696
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5
y7
b7
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

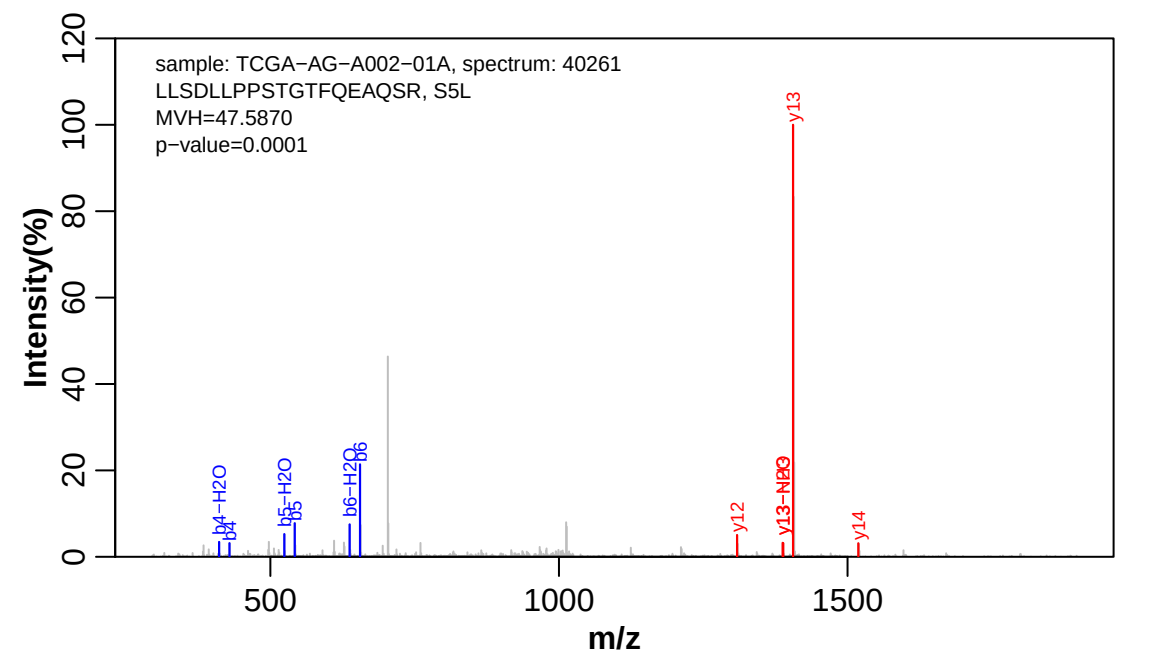

sample: TCGA−AG−A002−01A, spectrum: 151541
LGLQSLCNR, R7C
MVH=36.8320
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
y2−NH3
b3
y2
b4
b4−NH3
y3−NH3
y3
b5−NH3
b5
y4
b6−H2O
b6
y5
y6
y8

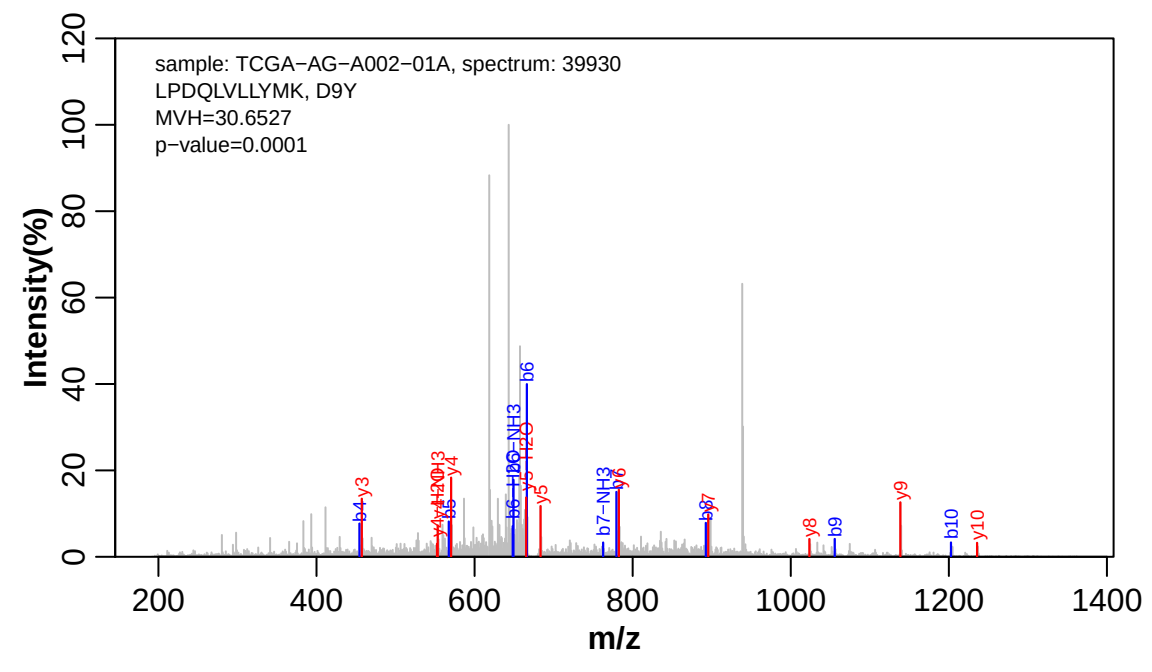

sample: TCGA−AG−A002−01A, spectrum: 97444
LHGHLYTPGQELTNDCK, E17K
MVH=70.8779
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10++
b11++
b10++
b12++
y6
b7
y2
y10
y9
b8
b9
b14++

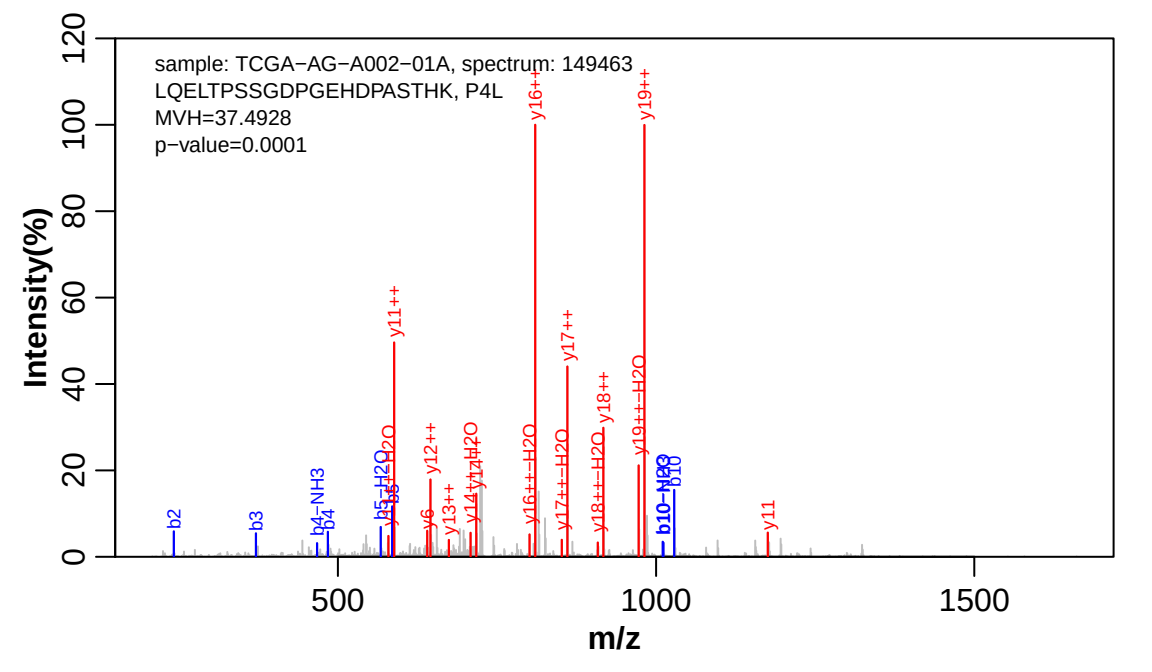

sample: TCGA−AG−A002−01A, spectrum: 41726
LLDTAFDLDLFK, V10I
MVH=64.9089
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
y5
b6−NH3
b6
y6
b7
b8−H2O
b8
y7
y8−NH3
y8
b9−H2O
b9
y9
b10
y10−H2O
y10
b11−H2O
b11
y11

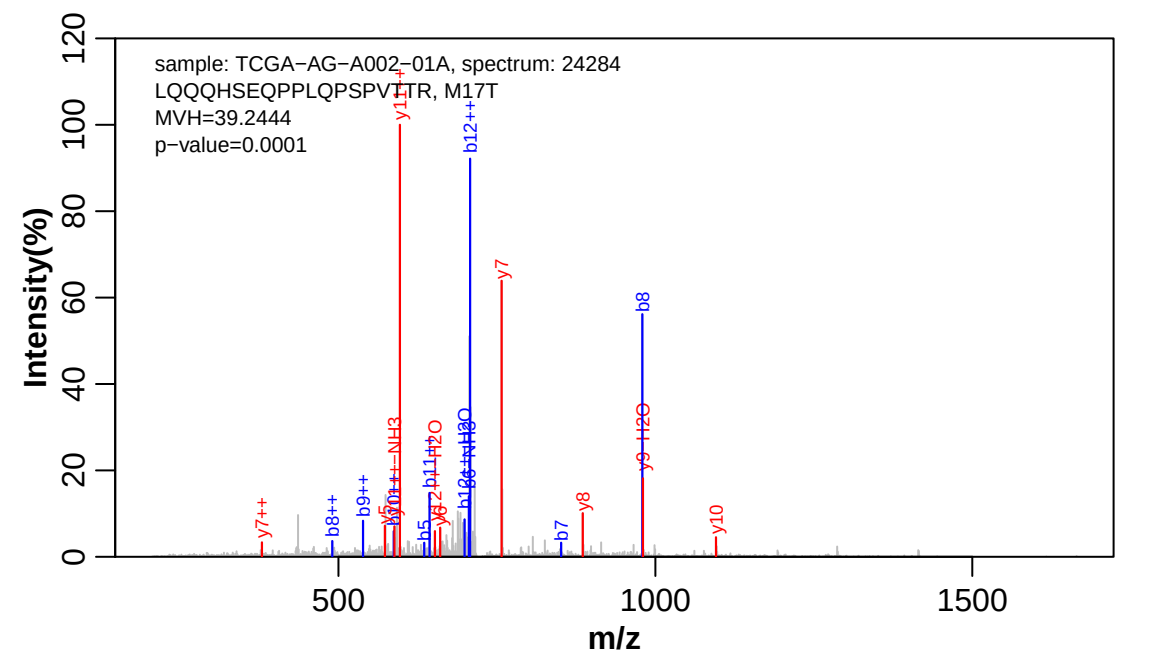

sample: TCGA−AG−A002−01A, spectrum: 63151
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y6
y7
y9
y2
y3
y4
y8
b2
b3
b4
b4−NH3
b5
b5−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

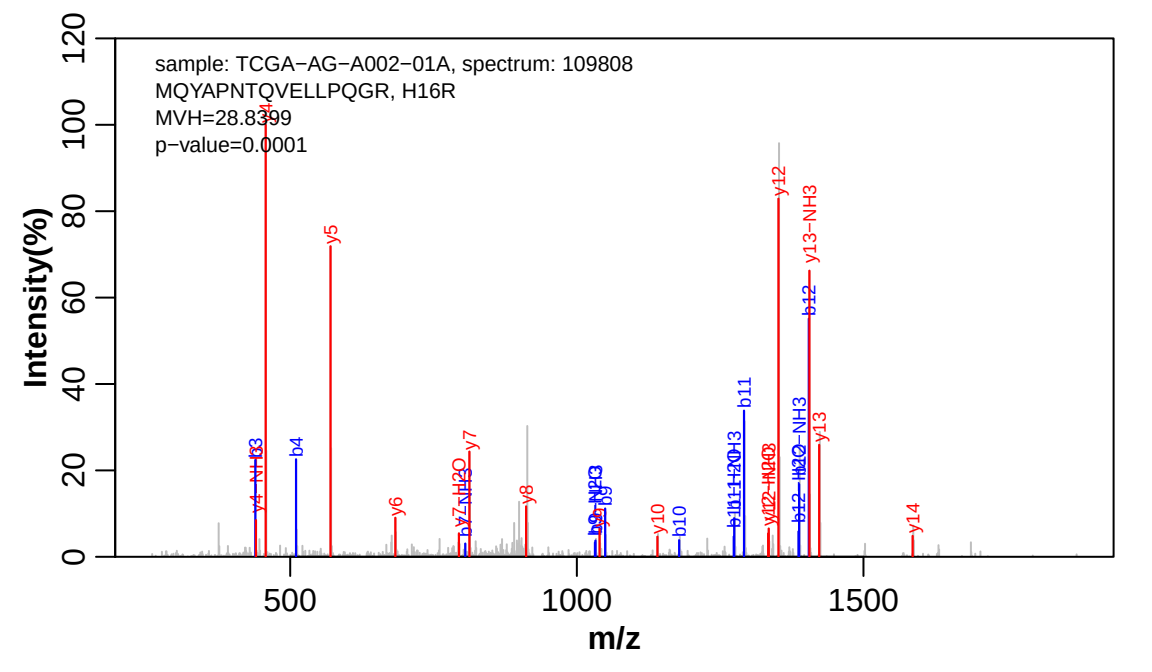

sample: TCGA−AG−A002−01A, spectrum: 108032
LLNNTDNLVR, E6D
MVH=45.6760
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b2
y2
b3
b4
y4
b5
y5
y6
y7−NH3
y7
y8−H2O−NH3
y8
b9−NH3
b9

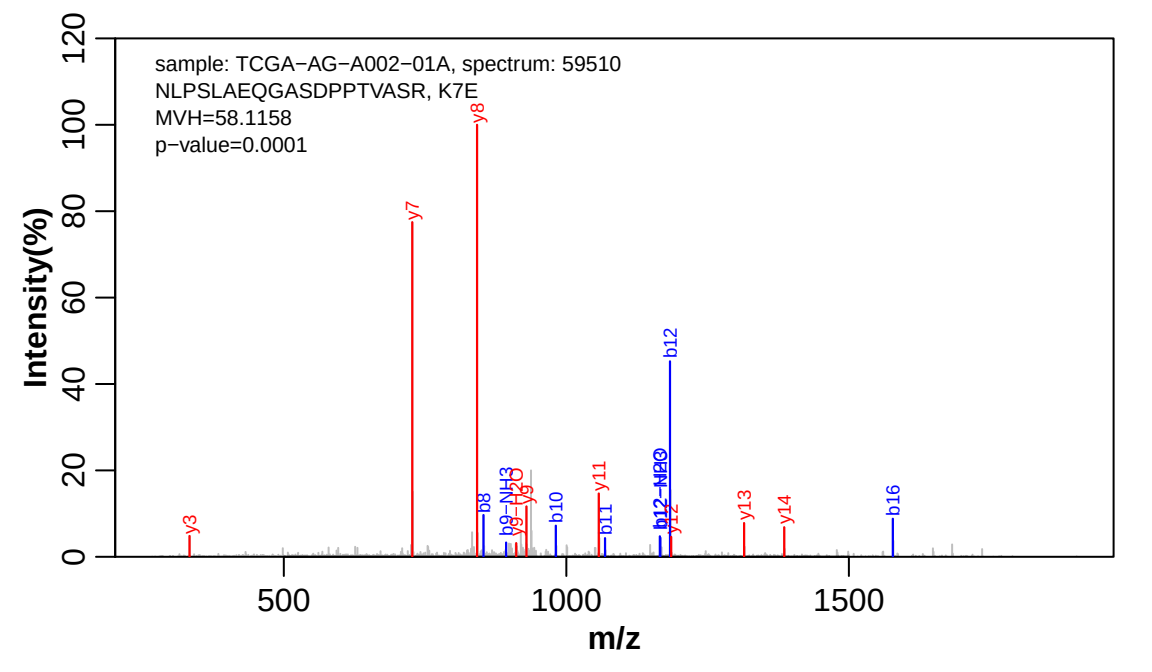

sample: TCGA−AG−A002−01A, spectrum: 40261
LLSDLLPPSTGTFQEAQSR, S5L
MVH=47.5870
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b4
b5−H2O
b5
b6−H2O
b6
y12
y13−NH3
y13
y14

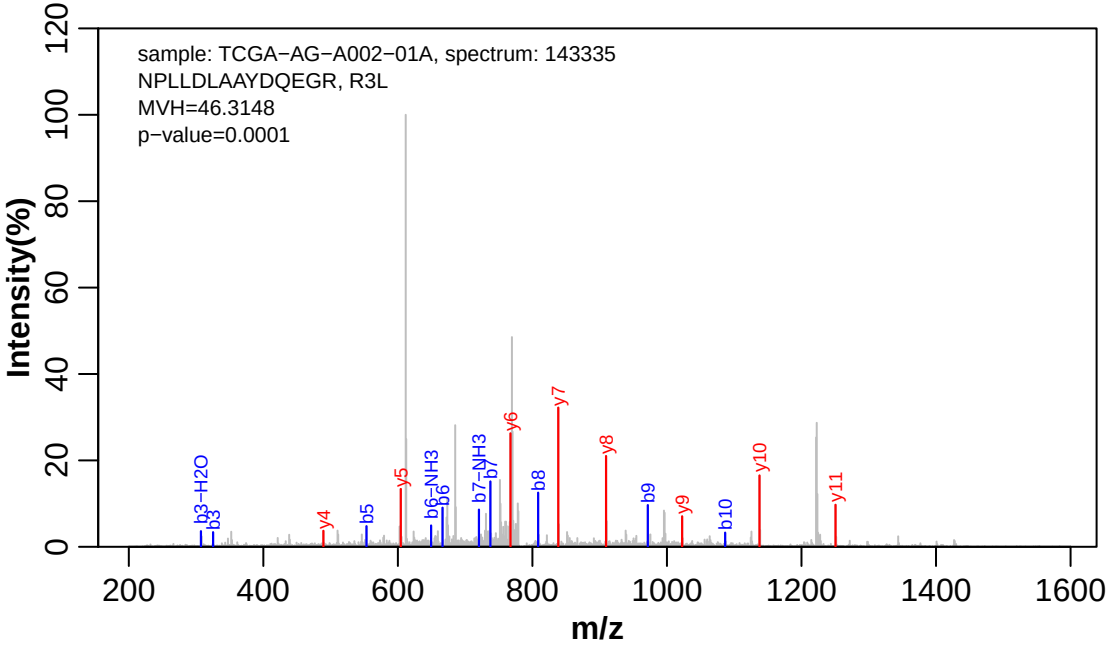

sample: TCGA−AG−A002−01A, spectrum: 39930
LPDQLVLLYMK, D9Y
MVH=30.6527
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
y3
y4
b6
b6−NH3
b6−H2O
y5
b7−NH3
y6
b7
y8
b9
y9
b10
y10

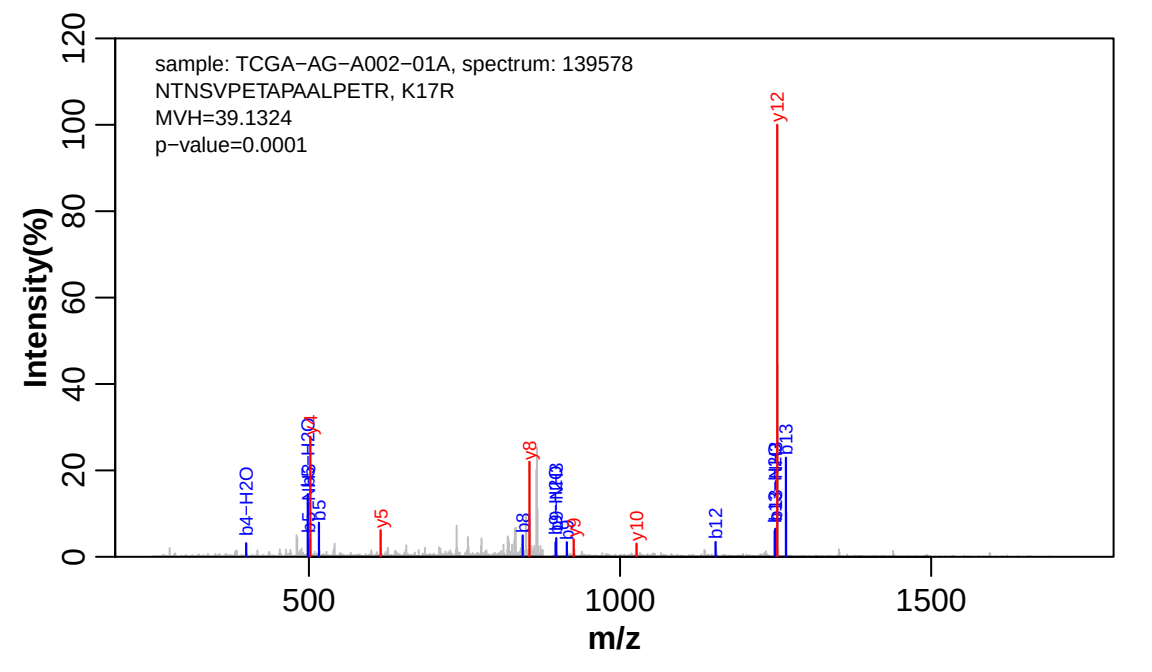

sample: TCGA−AG−A002−01A, spectrum: 149463
LQELTPSSGDPGEHDPASTHK, P4L
MVH=37.4928
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4−NH3
b4
b5−H2O
b5
b8
y11++
y6
y12++
y13++
y14++
y14++−H2O
y16++−H2O
y16++
y17++−H2O
y17++
y18++−H2O
y18++
y19++−H2O
y19++
b10−NH3
b10
y11

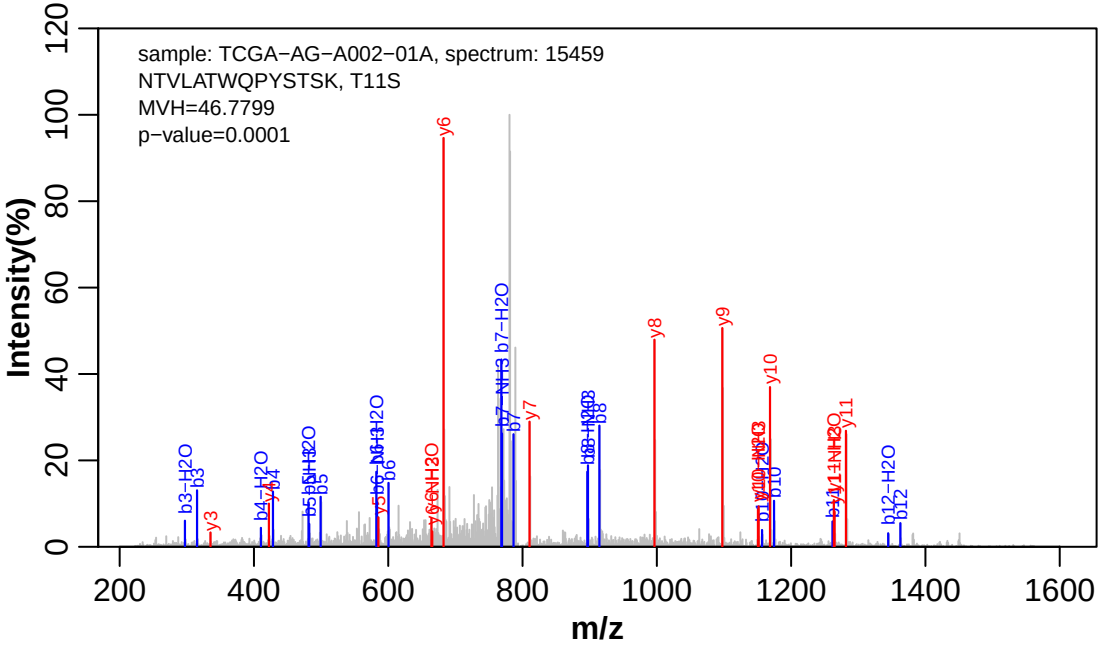

sample: TCGA−AG−A002−01A, spectrum: 24284
LQQQHSEQPPLQPSPVTTR, M17T
MVH=39.2444
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b8++
b9++
y11++
y11++−NH3
b5
y3
y2
b11++H2O
b12++
b12++−NH3
y7
b7
y8
b8
y9−H2O
y10

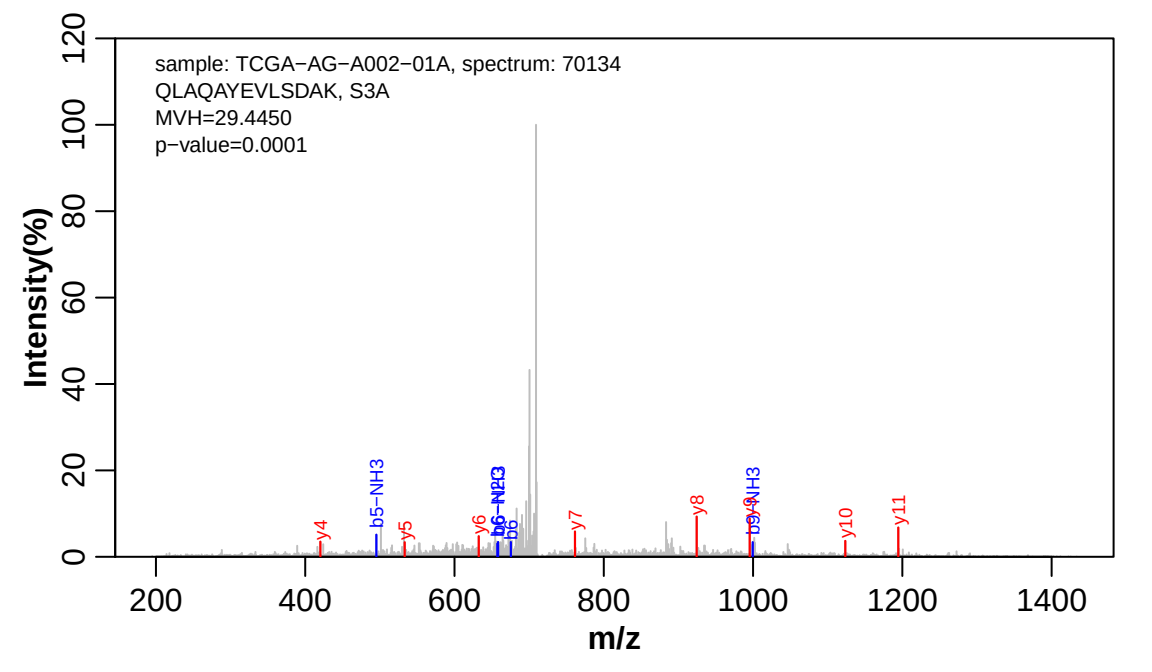

sample: TCGA−AG−A002−01A, spectrum: 109808
MQYAPNTQVELLPQGR, H16R
MVH=28.8399
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
b4
y6
y7
y8
y10
b10
b11
y12
y13−NH3
b12
y13
y14

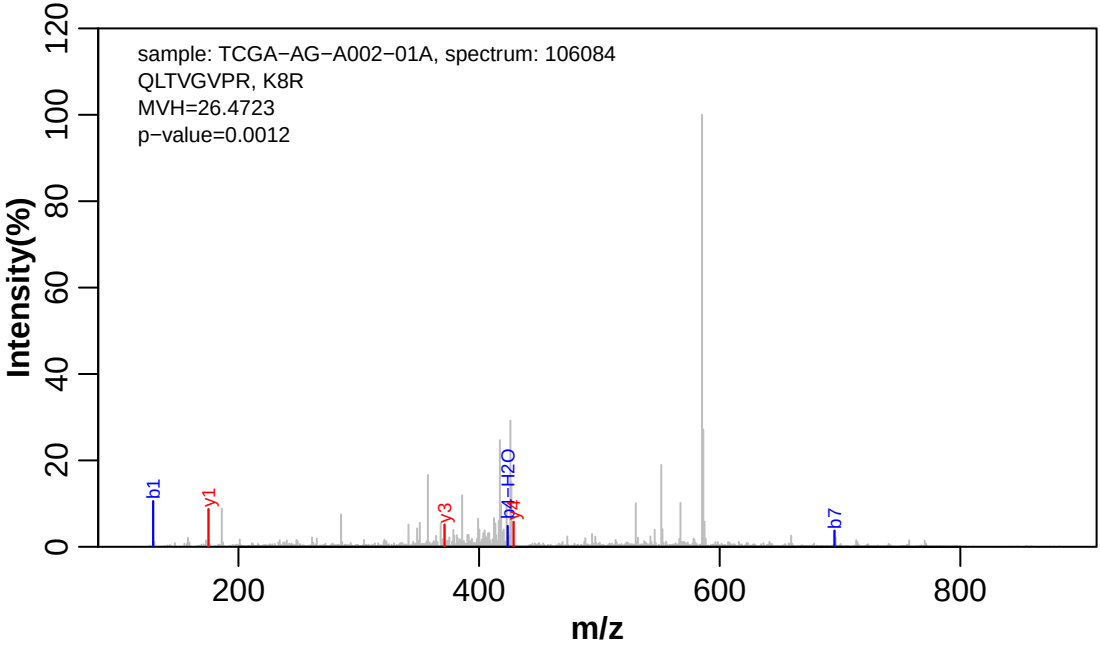

sample: TCGA−AG−A002−01A, spectrum: 59510
NLPSLAEQGASDPPTVASR, K7E
MVH=58.1158
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y7
y8
b8
b9−NH3
y9
y9−
b10
y11
b11
b12
b12−NH3
b12−H2O
y12
y13
y14
b16

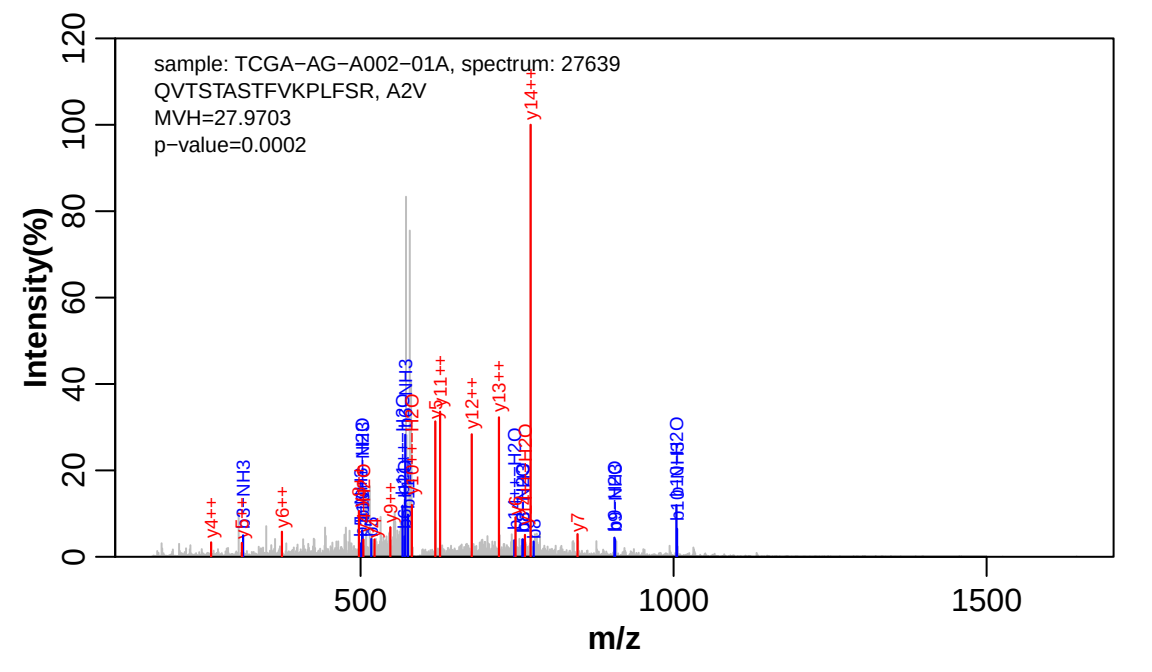

sample: TCGA−AG−A002−01A, spectrum: 143335
NPLLDLAAYDQEGR, R3L
MVH=46.3148
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
y4
b5
y5
b6−NH3
b6
b7−NH3
b7
y6
y7
b8
y8
b9
y9
b10
y10
y11

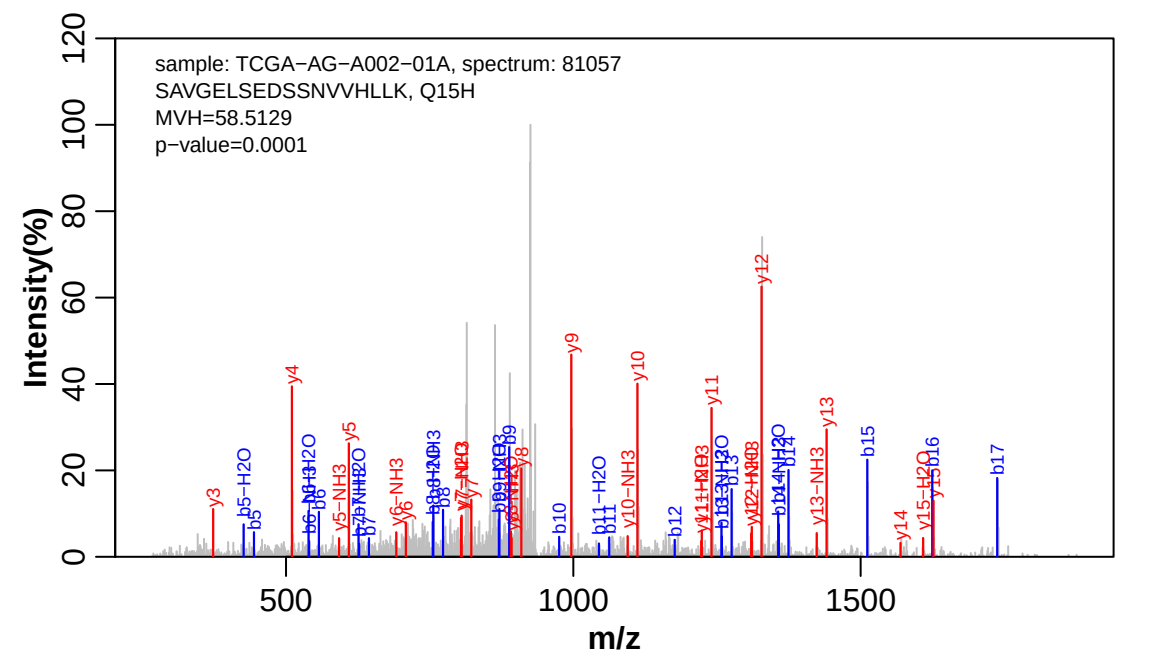

sample: TCGA−AG−A002−01A, spectrum: 139578
NTNSVPETAPAALPETR, K17R
MVH=39.1324
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b4−H2O
y5
y8
y10
b12
b13

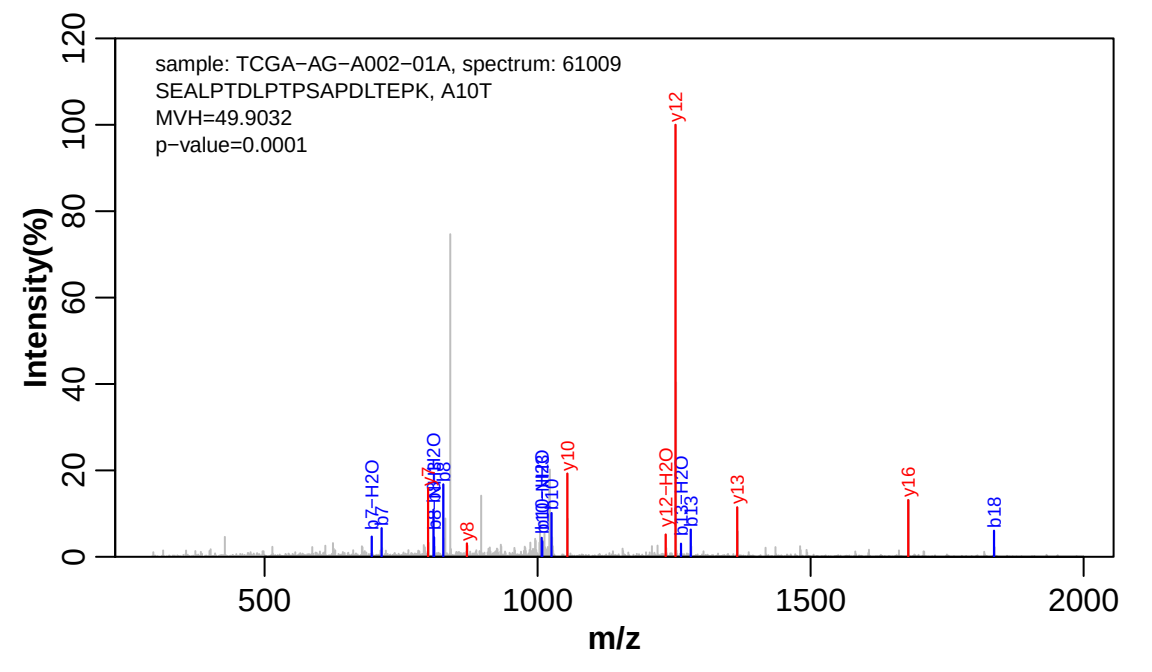

sample: TCGA−AG−A002−01A, spectrum: 15459
NTVLATWQPYSTSK, T11S
MVH=46.7799
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y8
y9
y10
y11
y7
b7−NH3
b7−H2O
b3−H2O
b4−H2O
b12−H2O
y3

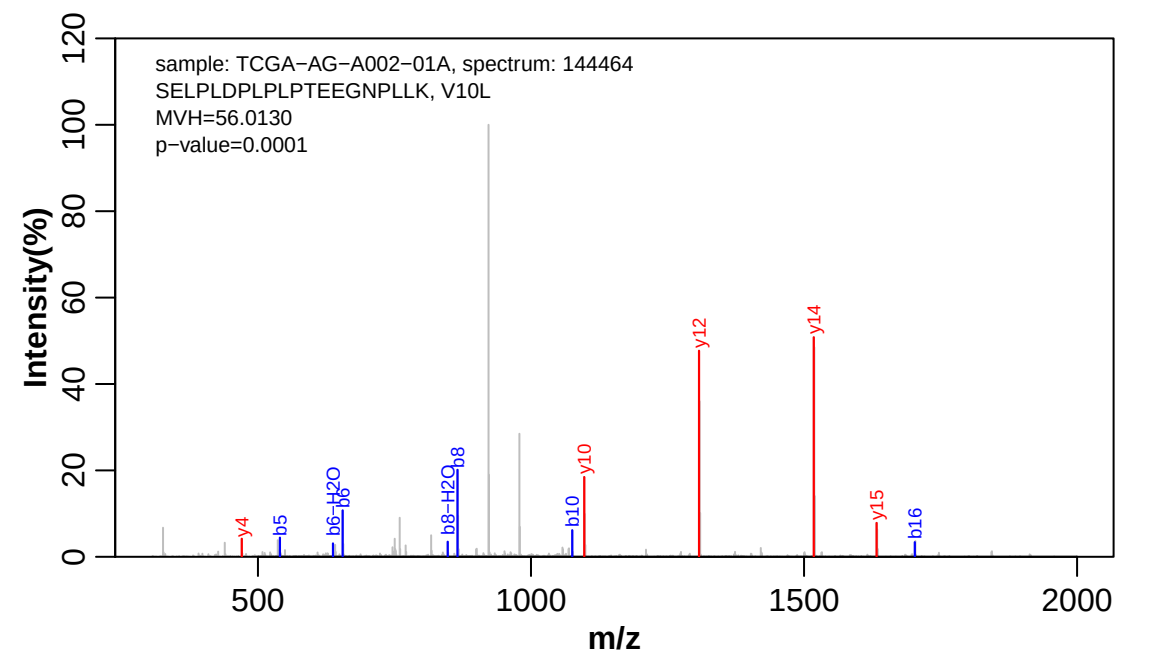

sample: TCGA−AG−A002−01A, spectrum: 70134
QLAQAYEVLSDAK, S3A
MVH=29.4450
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y4
b5−NH3
y5
y6
y7
y8
y10
y11

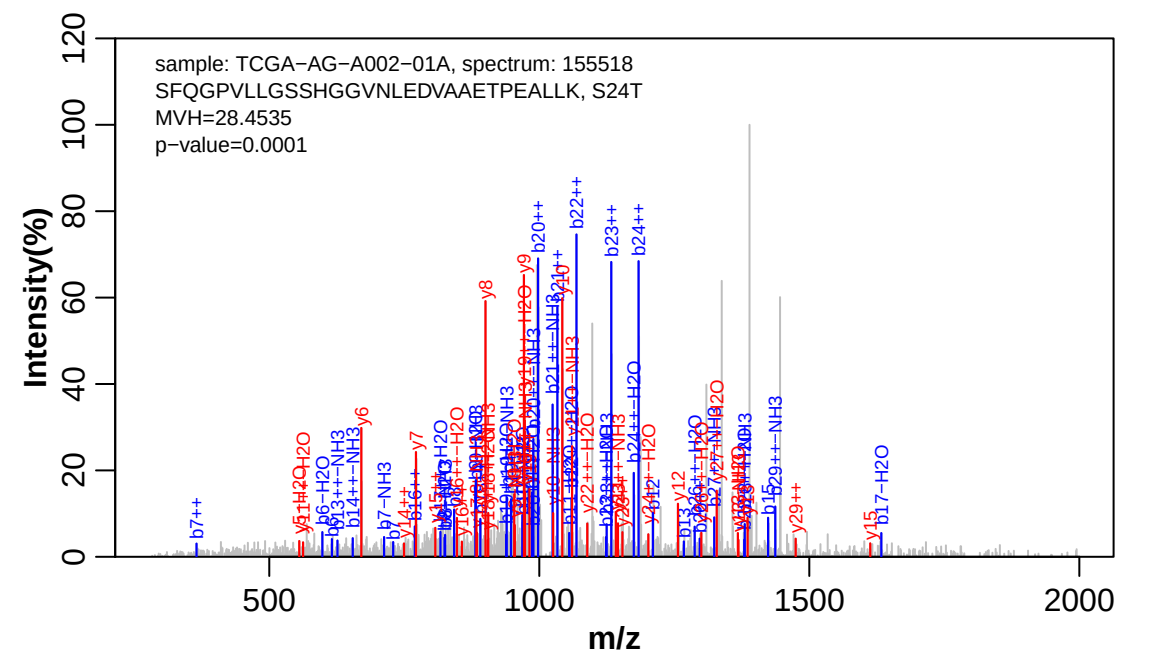

sample: TCGA−AG−A002−01A, spectrum: 106084
QLTVGVPR, K8R
MVH=26.4723
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1
y3
b4−H2O
y4
b7

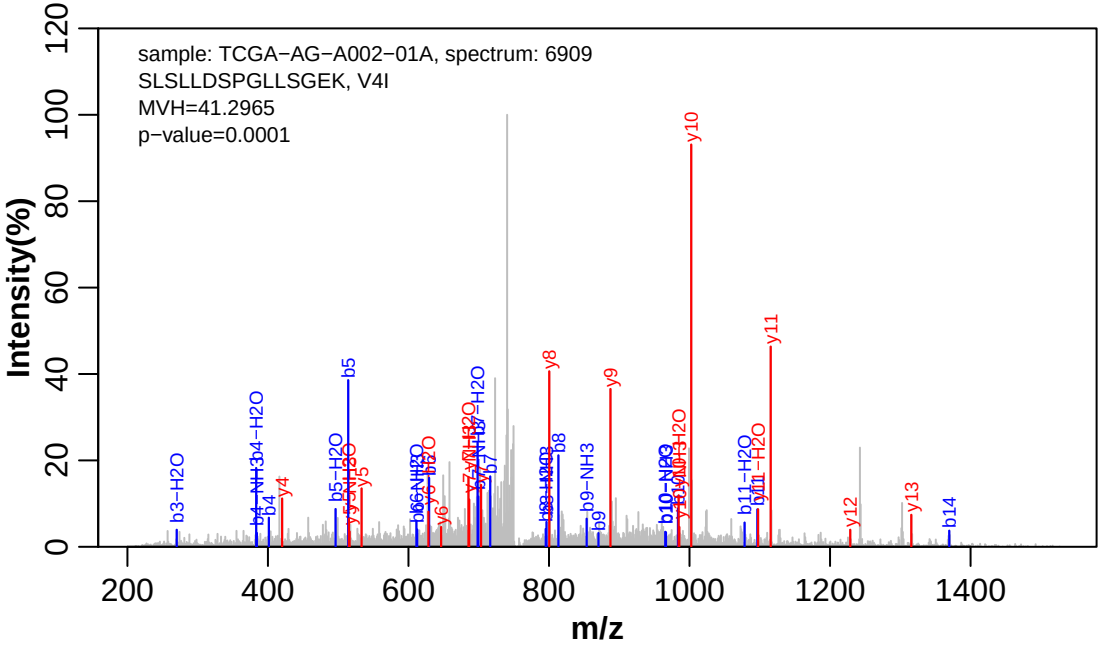

sample: TCGA−AG−A002−01A, spectrum: 27639
QVTSTASTFVKPLFSR, A2V
MVH=27.9703
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y14++
y11++
y12++
y13++
y5
y4++
y6++
y7
y9++

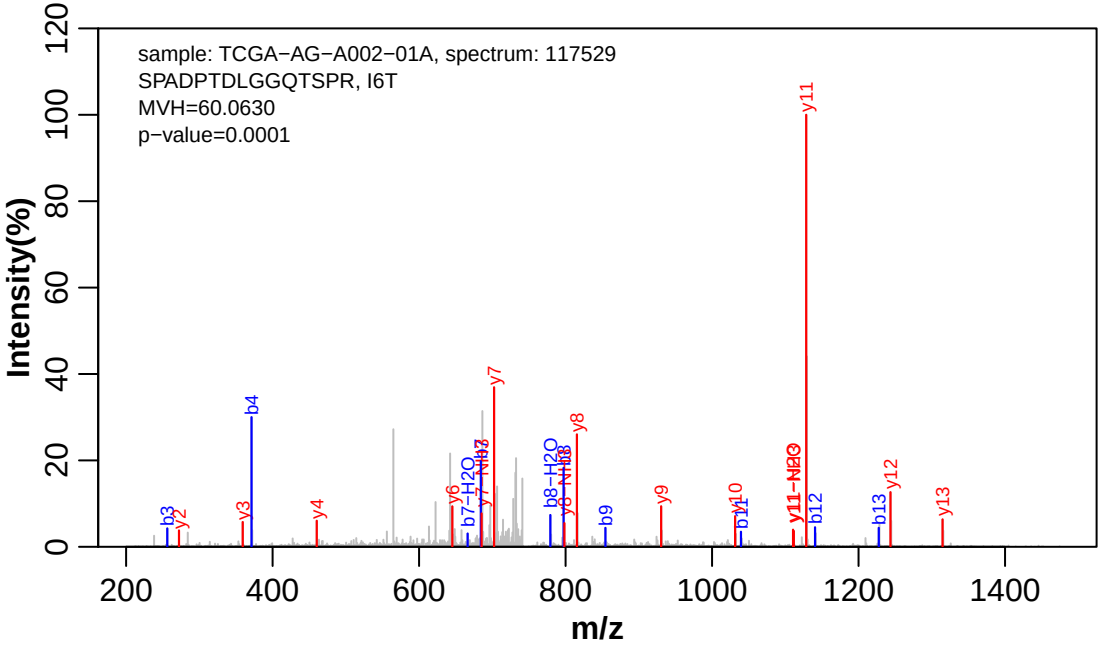

sample: TCGA−AG−A002−01A, spectrum: 81057
SAVGELSEDSSNVVHLLK, Q15H
MVH=58.5129
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
y5
y5−NH3
b7
y6
y6−NH3
y7
y8
b10
y9
b11−H2O
b11
y10
y10−NH3
b12
y11
b13
y12
y12−NH3
b14
y13
y13−NH3
b15
y14
y15−H2O
y15
b16
b17

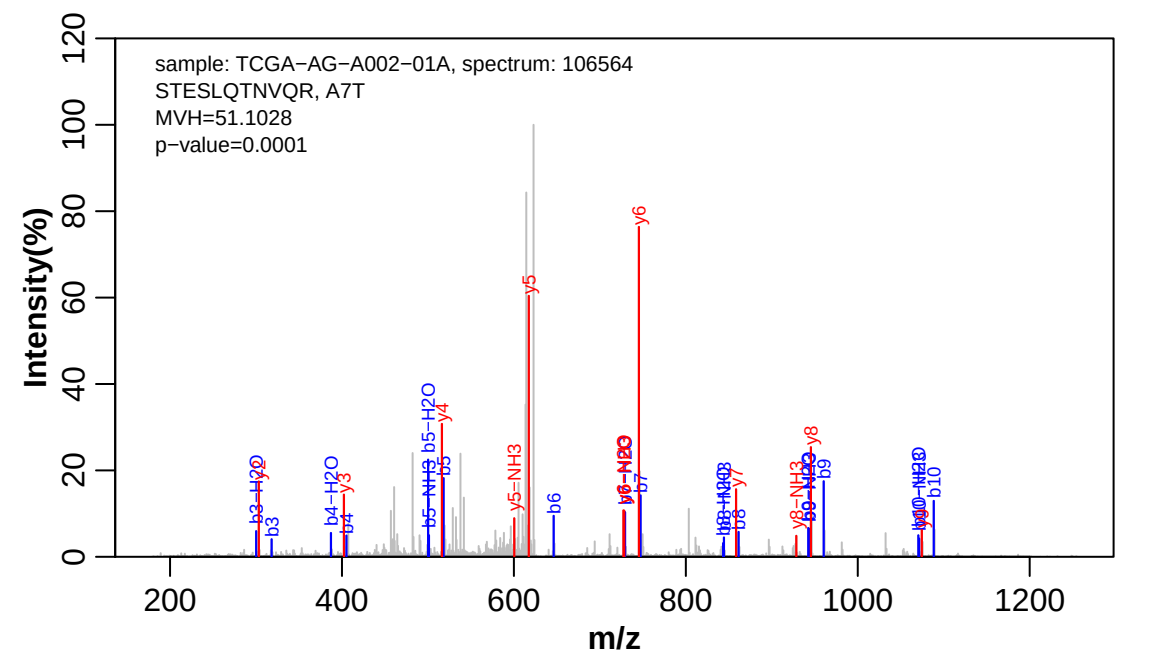

sample: TCGA−AG−A002−01A, spectrum: 61009
SEALPTDLPTPSAPDLTEPK, A10T
MVH=49.9032
p−value=0.0001
Intensity(%)
m/z
y12
y10
y13
y16
b18
y8
b7
b7−H2O
y12−H2O
b13−H2O
0
20
40
60
80
100
120
500
1000
1500
2000

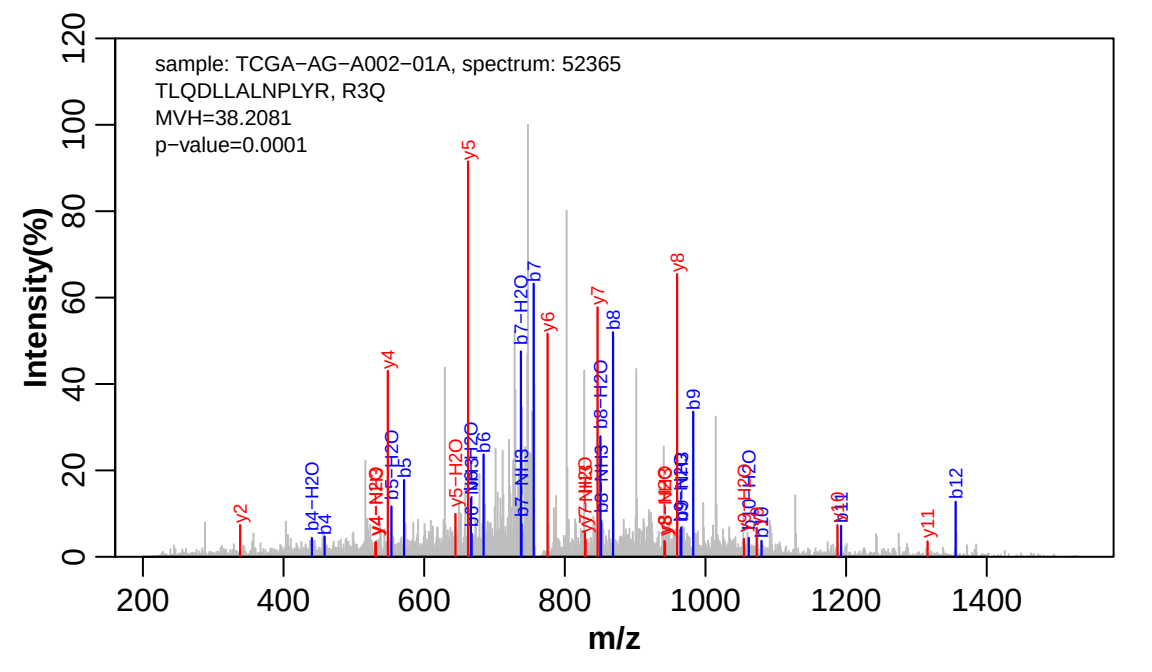

sample: TCGA−AG−A002−01A, spectrum: 144464
SELPLDPLPLPTEEGNPLLK, V10L
MVH=56.0130
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−H2O
b6
b8−H2O
b8
b10
y10
y12
y14
y15
b16

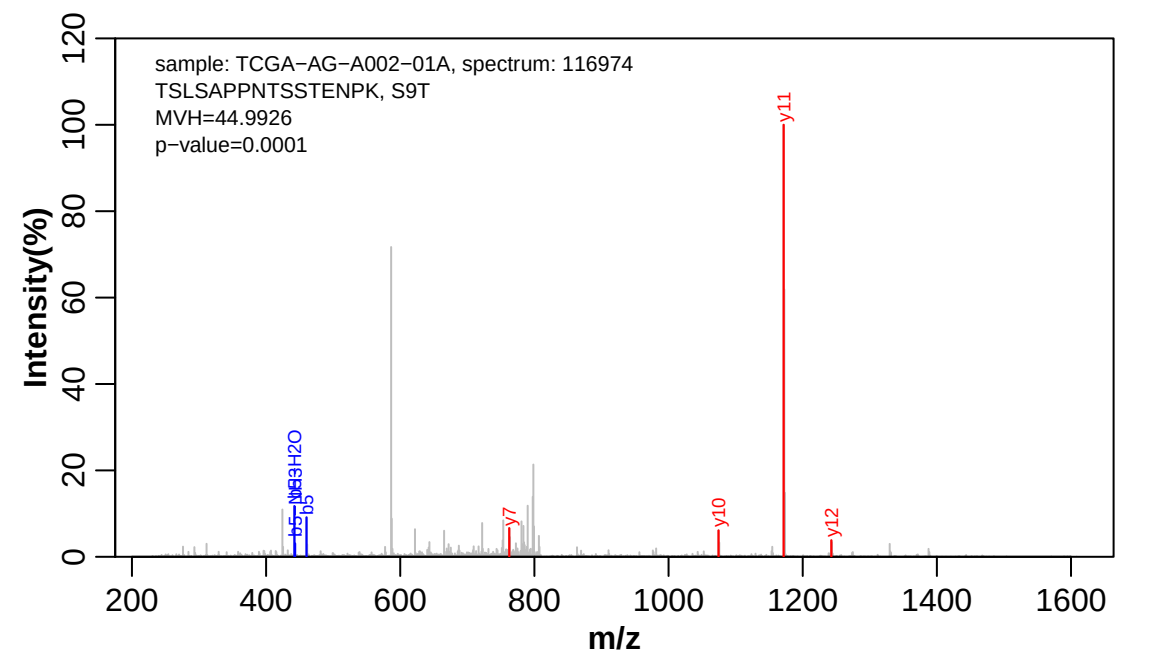

sample: TCGA−AG−A002−01A, spectrum: 155518
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S24T
MVH=28.4535
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b7++
y8
b20++
b22++
b23++
b24++
y6
y7
b17−H2O

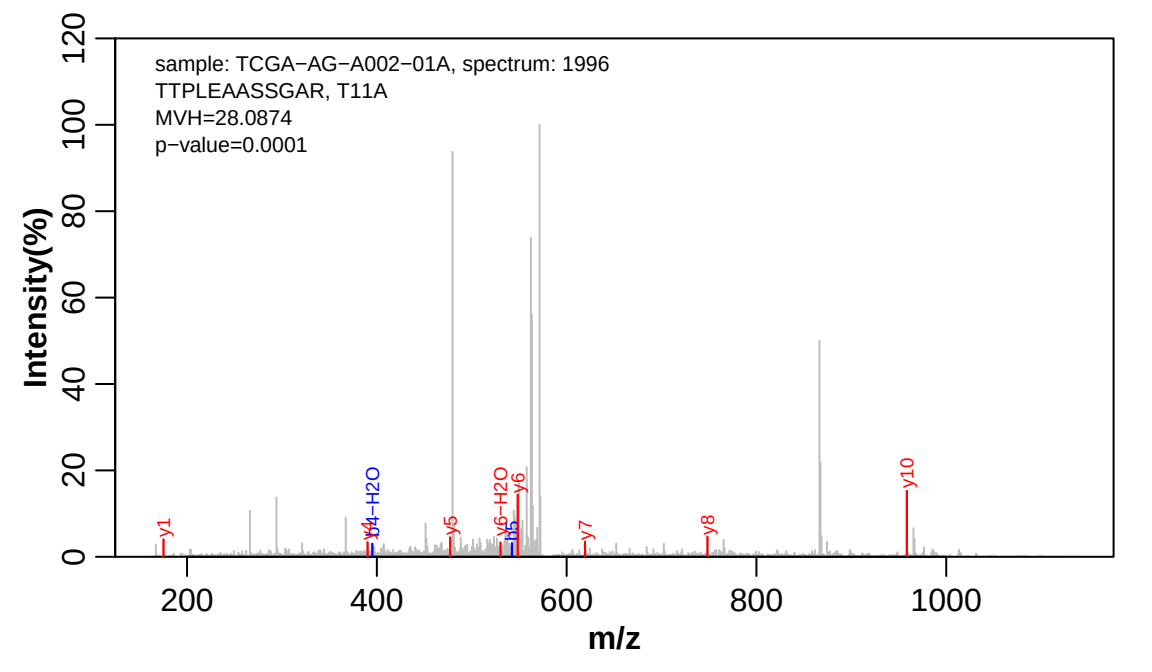

sample: TCGA−AG−A002−01A, spectrum: 6909
SLSLLDSPGLLSGEK, V4I
MVH=41.2965
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b4−NH3
b4−H2O
b4
y4
b5
b5−H2O
y5−NH3
y5
b6−NH3
b6−H2O
b6
y6
y7−NH3
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−NH3
b8−H2O
b8
b9−NH3
b9
y9
b10−NH3
b10−H2O
b10
y10−NH3
y10−H2O
y10
b11−H2O
b11
y11−H2O
y11
y12
y13
b14

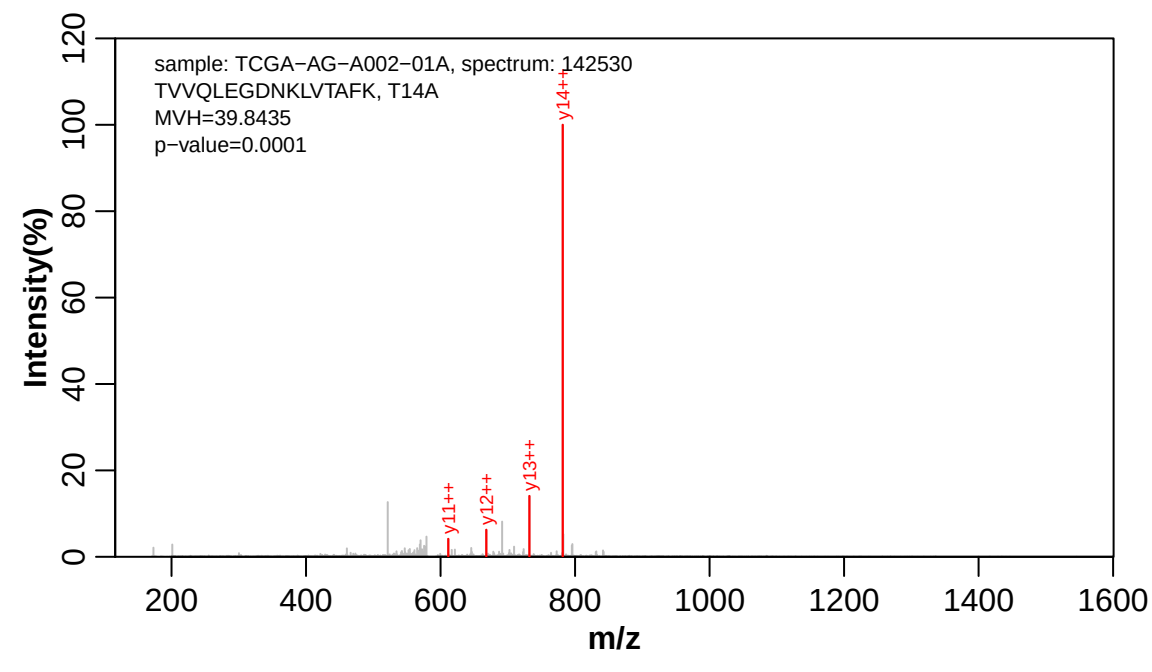

sample: TCGA−AG−A002−01A, spectrum: 117529
SPADPTDLGGQTSPR, I6T
MVH=60.0630
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y6
b7−H2O
y7
y7−NH3
b8−H2O
y8−NH3
y8
b9
y9
b10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

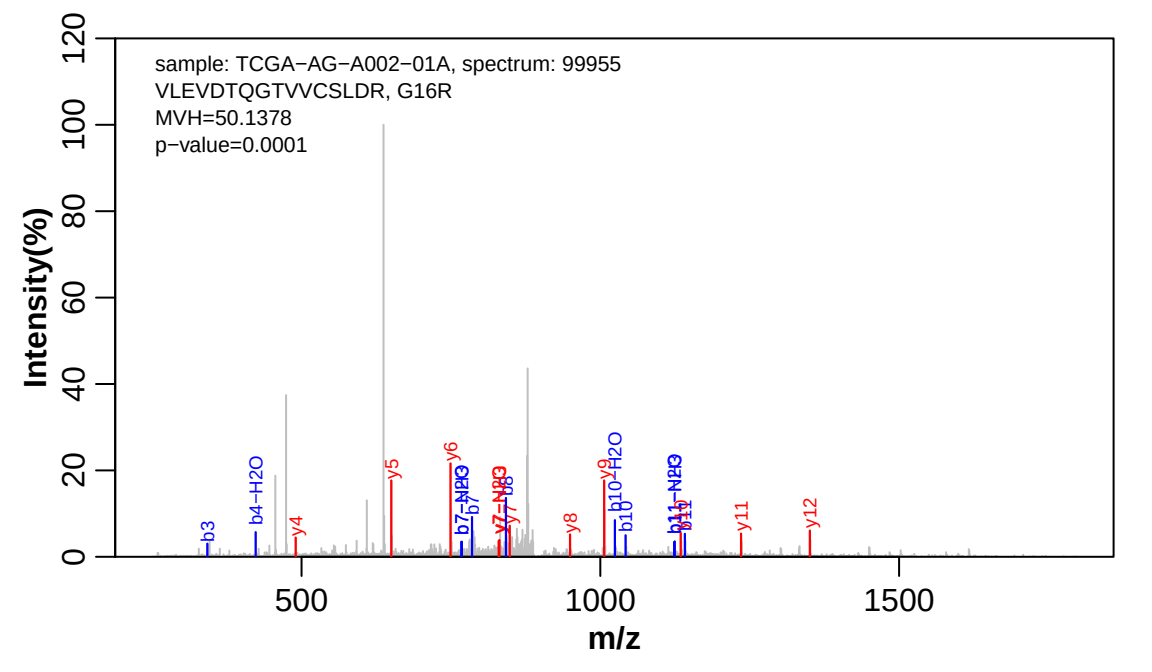

sample: TCGA−AG−A002−01A, spectrum: 106564
STESLQTNVQR, A7T
MVH=51.1028
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y4
b5−H2O
b5−NH3
b5
y5−NH3
b6
b4−H2O
y3
b4
b3−H2O
b3
b7
y7
b8
y8
y8−NH3
b9
b10

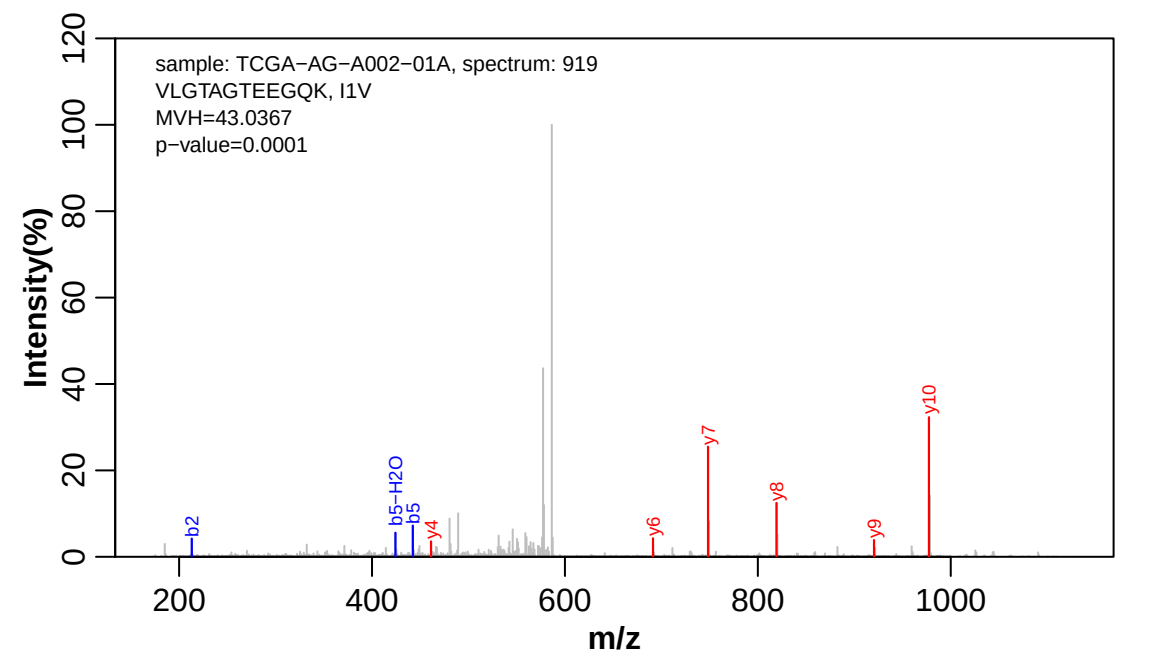

sample: TCGA−AG−A002−01A, spectrum: 52365
TLQDLLALNPLYR, R3Q
MVH=38.2081
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−H2O
b4
y4−NH3
y4
b5
y5−H2O
y5
b6−NH3
b6−H2O
b6
b7−NH3
b7−H2O
b7
y6
y7−NH3
y7−H2O
y7
b8−NH3
b8−H2O
b8
y8−NH3
y8−H2O
y8
b9−NH3
b9
y9−H2O
y9
b10
y11
b12

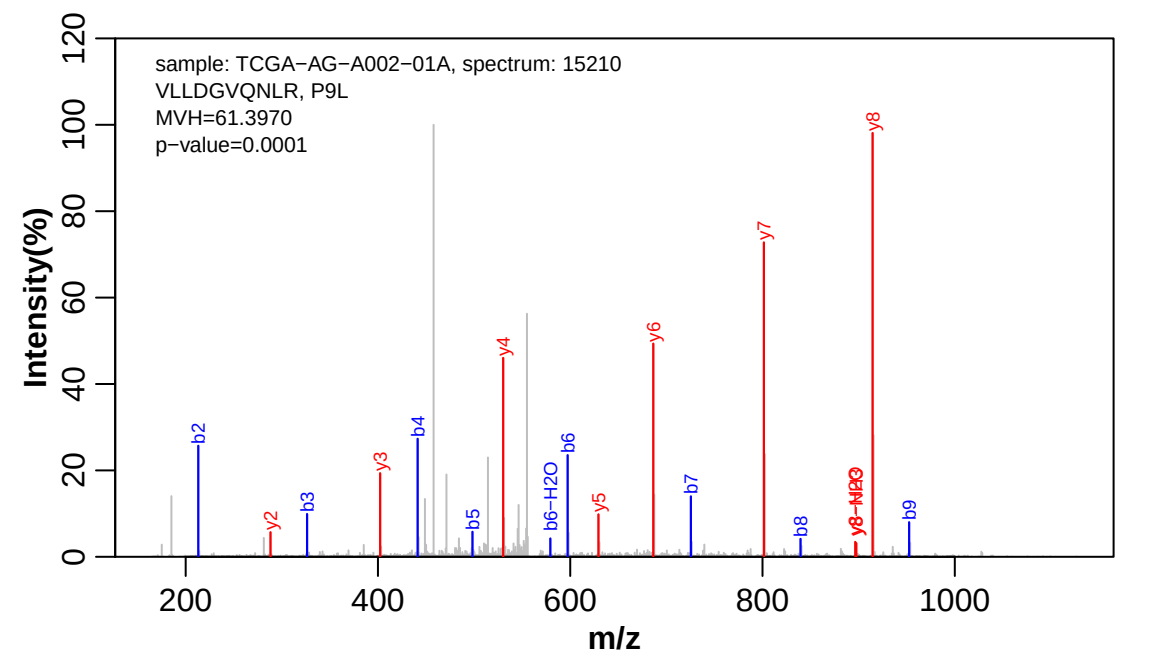

sample: TCGA−AG−A002−01A, spectrum: 116974
TSLSAPPNTSSTENPK, S9T
MVH=44.9926
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z
b5
b5-NH3
b5-H2O
y7
y10
y11
y12

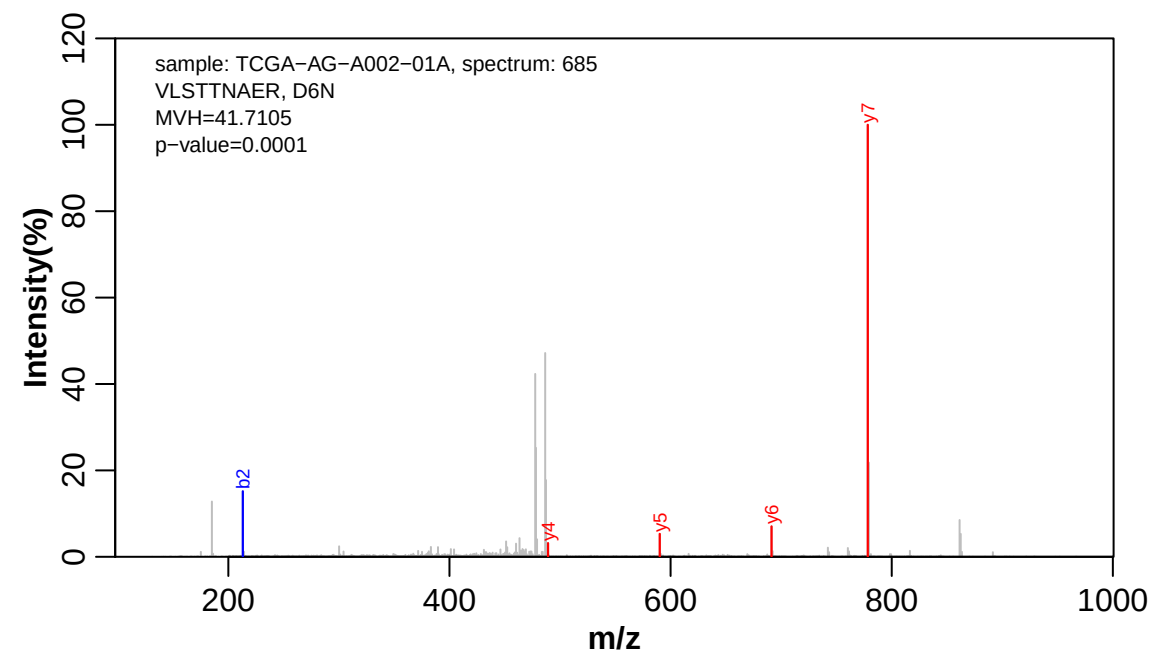

sample: TCGA−AG−A002−01A, spectrum: 1996
TTPLEAASSGAR, T11A
MVH=28.0874
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
y4−H2O
y4
y5
y6−H2O
b5
y6
y7
y8
y10

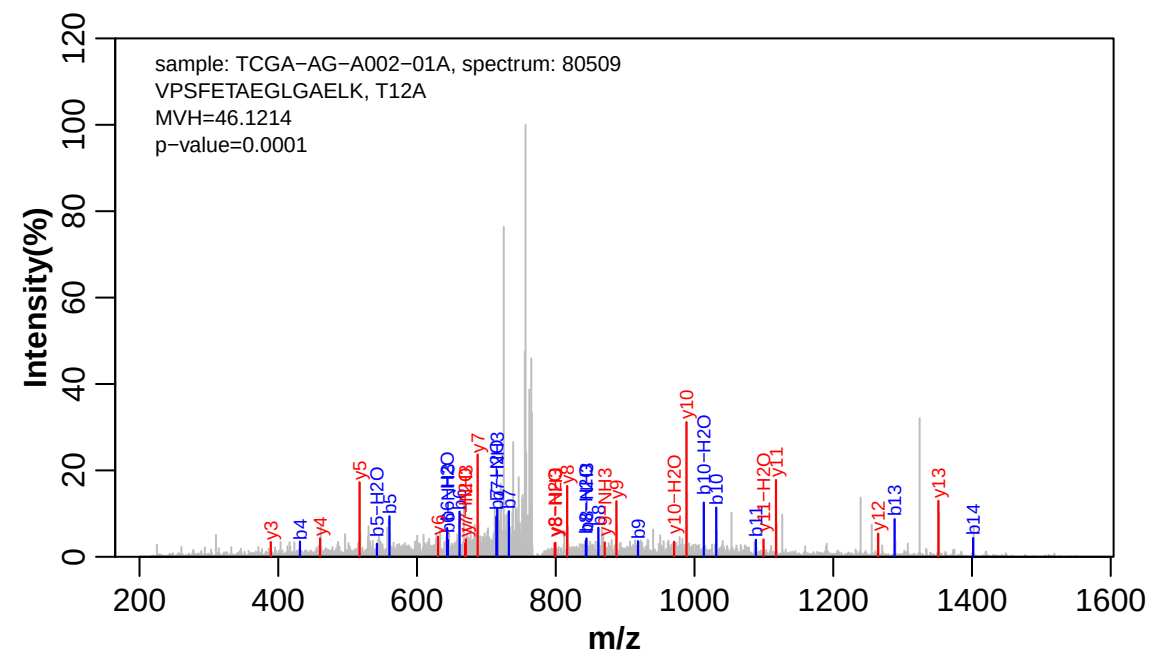

sample: TCGA−AG−A002−01A, spectrum: 142530
TVVQLEGDNKLVTAFK, T14A
MVH=39.8435
p−value=0.0001
y14++
y13++
y12++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

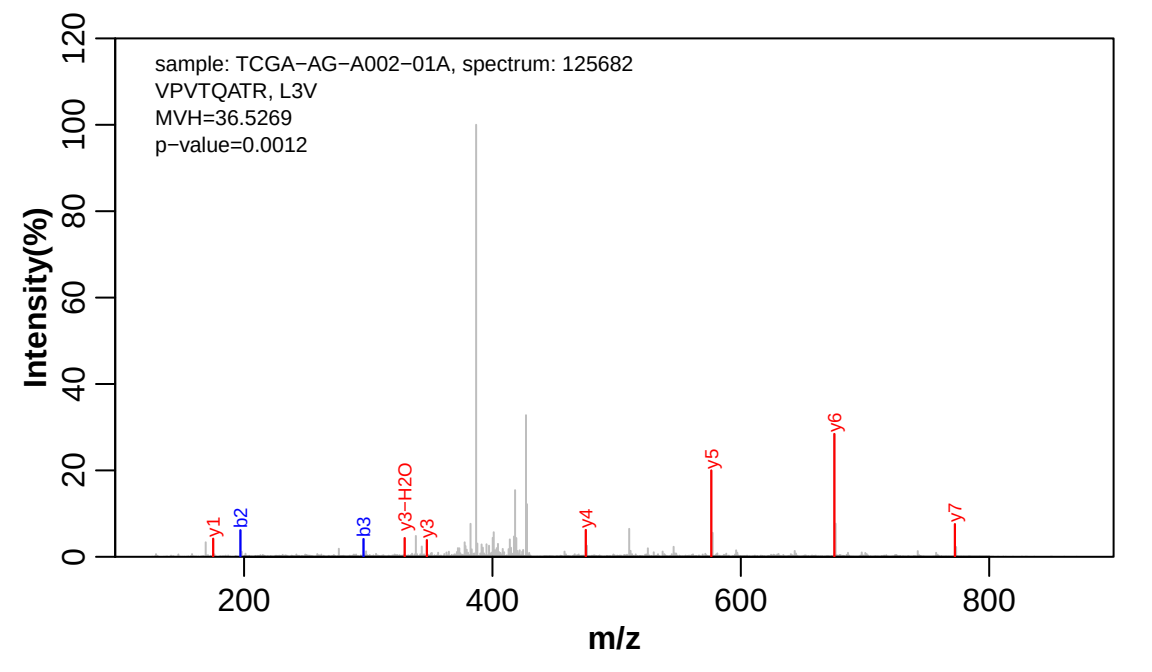

sample: TCGA−AG−A002−01A, spectrum: 99955
VLEVDTQGTVVCSLDR, G16R
MVH=50.1378
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b4−H2O
y4
y5
y6
b7−NH3
b7
y7−NH3
y7
b8
y8
y9
b10−H2O
b10
b11−NH3
b11
y11
y12

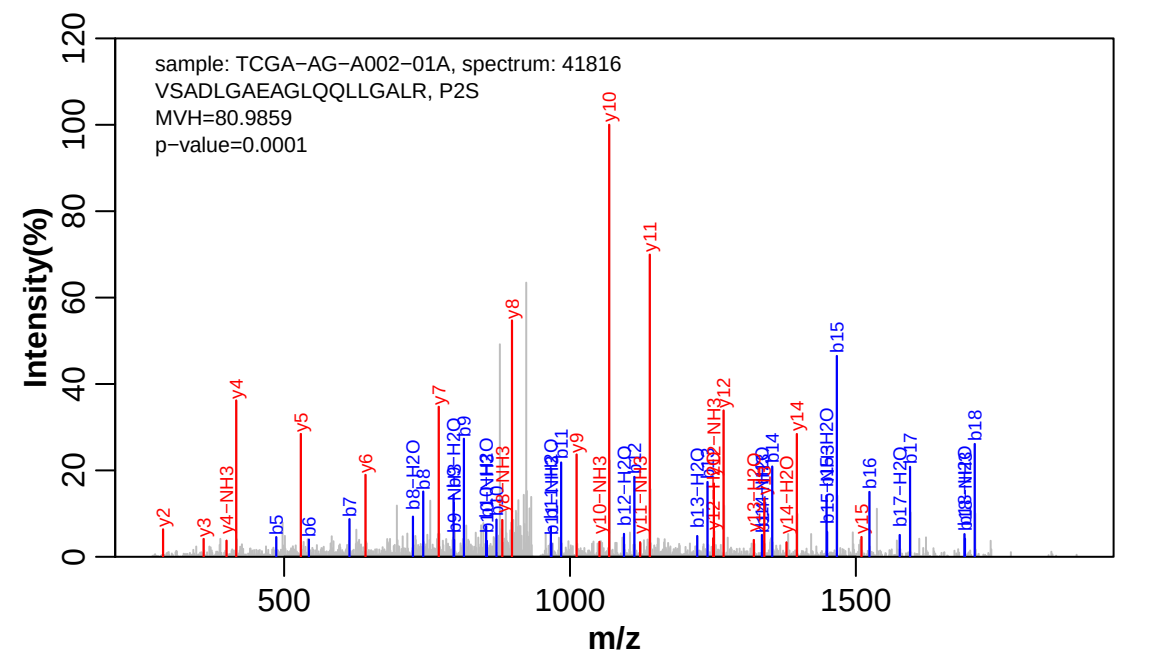

sample: TCGA−AG−A002−01A, spectrum: 919
VLGTAGTEEGQK, I1V
MVH=43.0367
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b5−H2O
b5
y4
y6
y7
y8
y9
y10

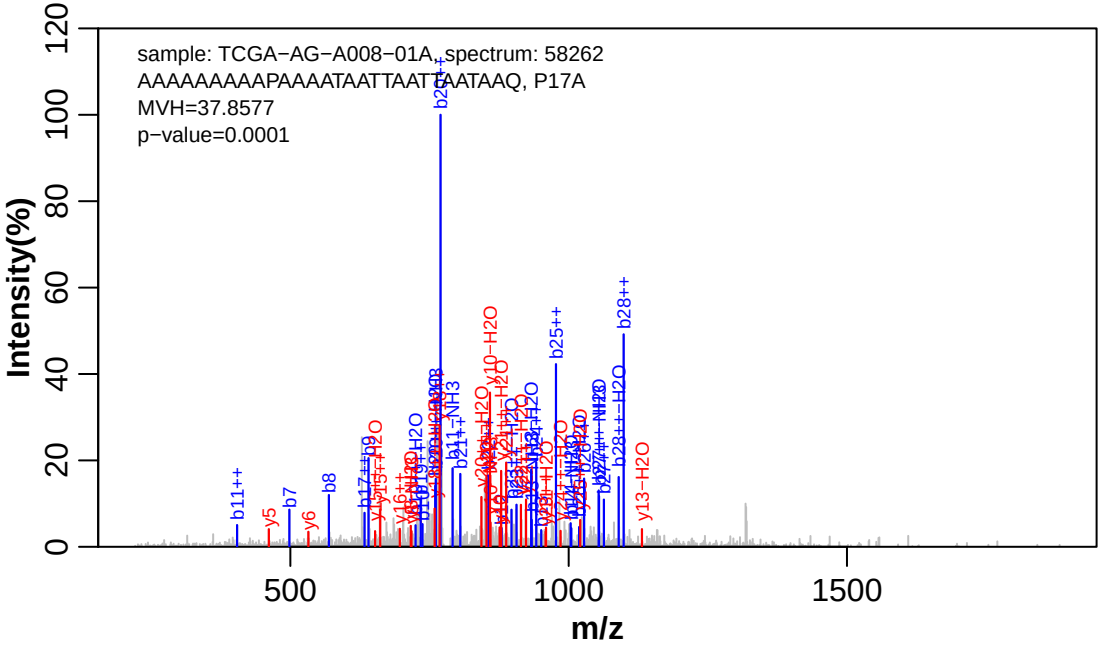

sample: TCGA−AG−A002−01A, spectrum: 15210
VLLDGVQNLR, P9L
MVH=61.3970
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8−NH3
y8
b9

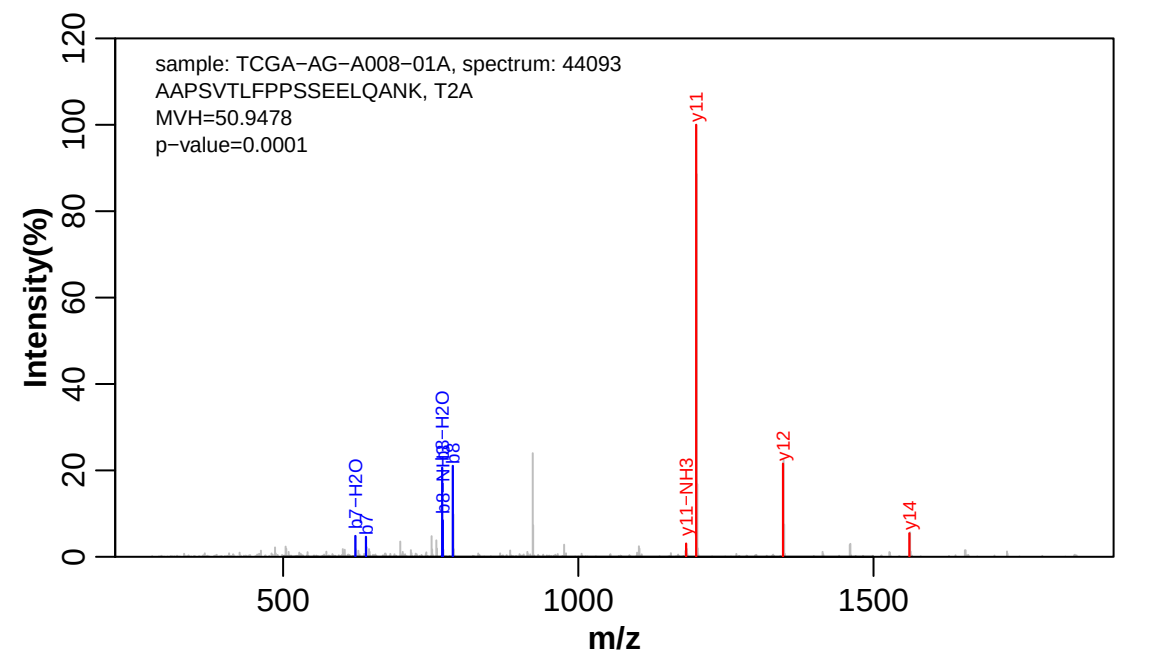

sample: TCGA−AG−A002−01A, spectrum: 685
VLSTTNAER, D6N
MVH=41.7105
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y4
y5
y6
y7

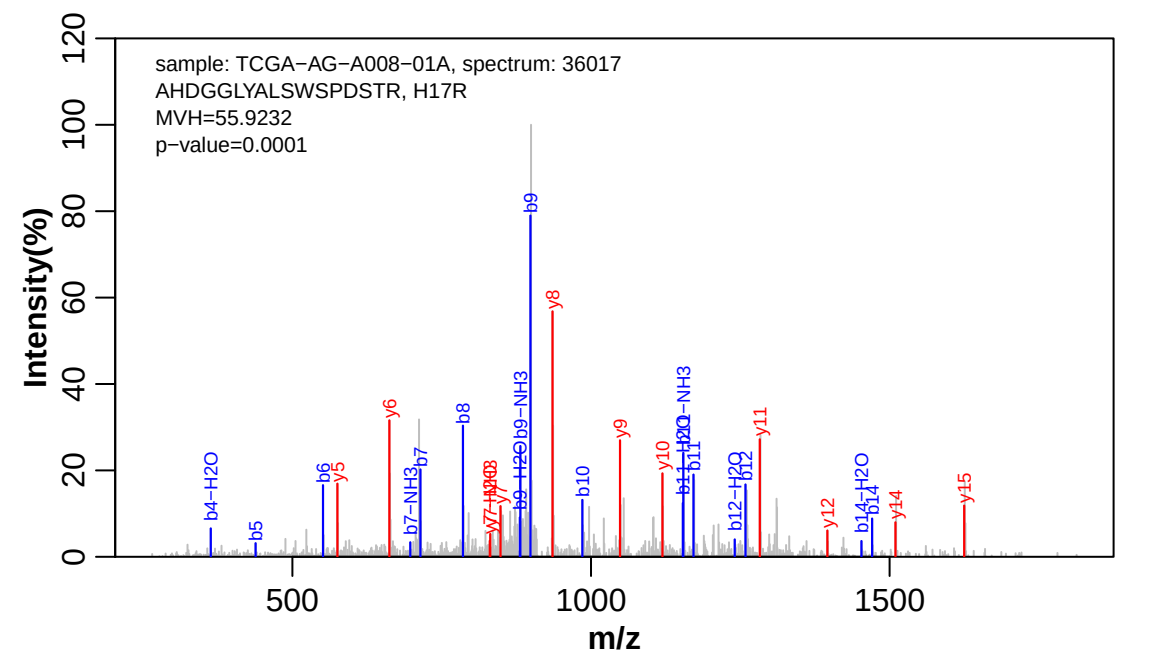

sample: TCGA−AG−A002−01A, spectrum: 80509
VPSFETAEGLGAELK, T12A
MVH=46.1214
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4
y4
y5
b5−H2O
b5
y6
y7
y8
y8−NH3
y9
b9
y10−H2O
y10
b10−H2O
b10
y11−H2O
y11
b11
y12
b13
y13
b14

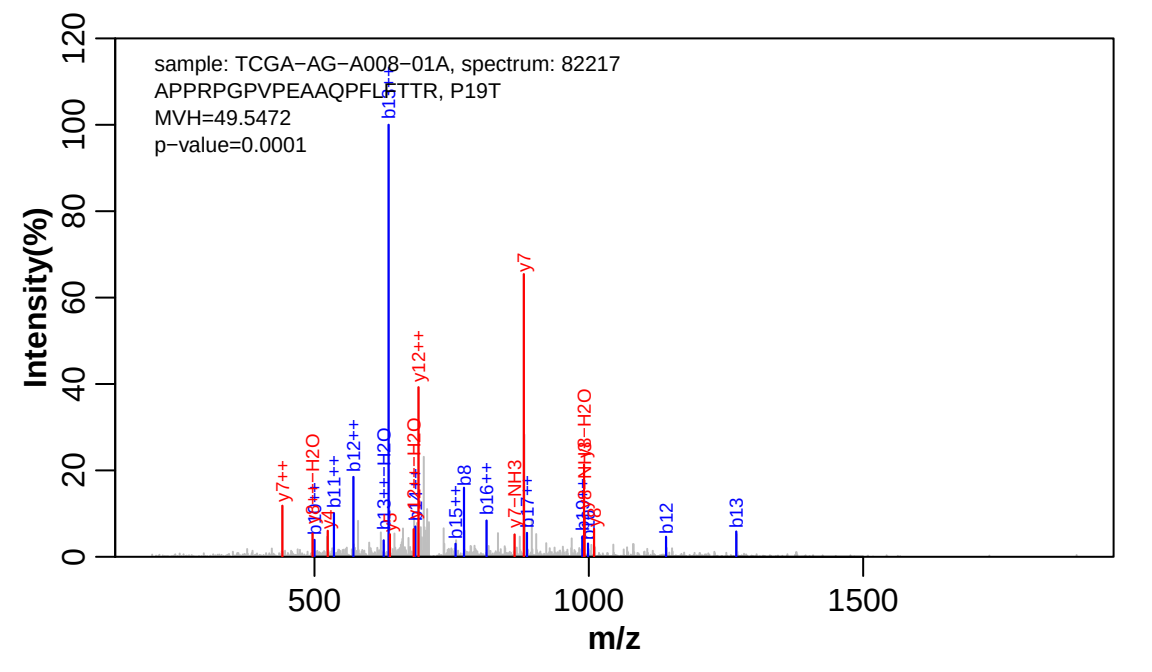

sample: TCGA−AG−A002−01A, spectrum: 125682
VPVTQATR, L3V
MVH=36.5269
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3−H2O
y3
y4
y5
y6
y7

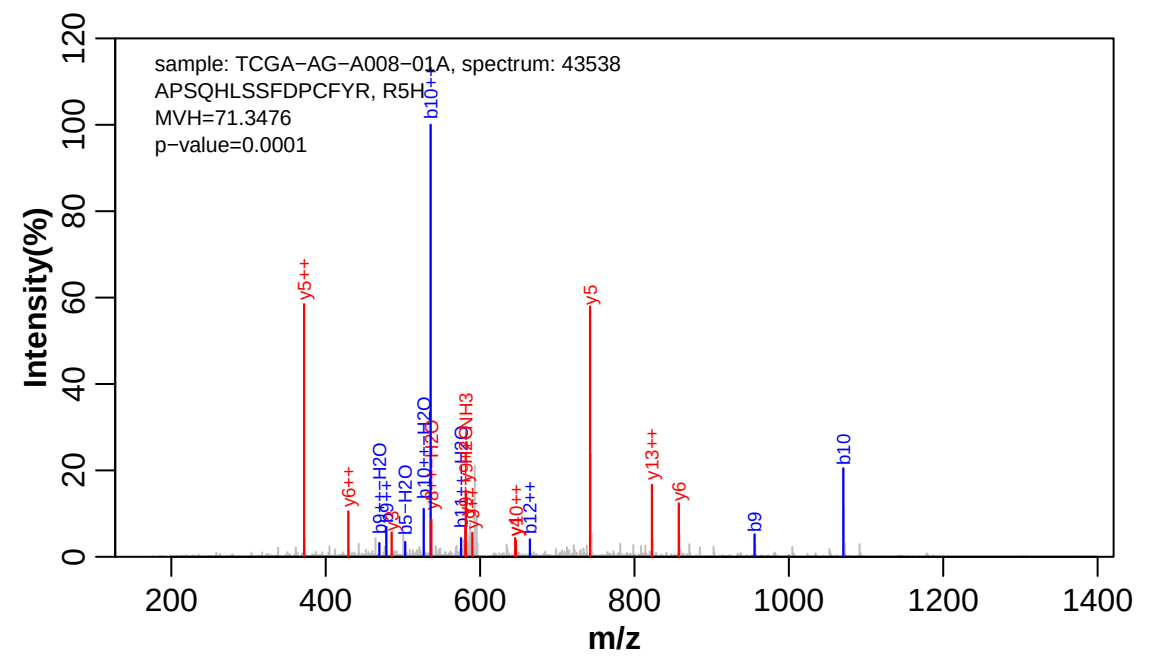

sample: TCGA−AG−A002−01A, spectrum: 41816
VSADLGAEAGLQQLLGALR, P2S
MVH=80.9859
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y11
y8
y4
y5
y7
y6
y2
y3
y4−NH3
b5
b6
b7
b8−H2O
b15
y14−H2O
y14
y12
y10−NH3
y9
b11
b12−H2O
b13−H2O
y12−NH3
b15−H2O
b16
b17−H2O
b17
b18

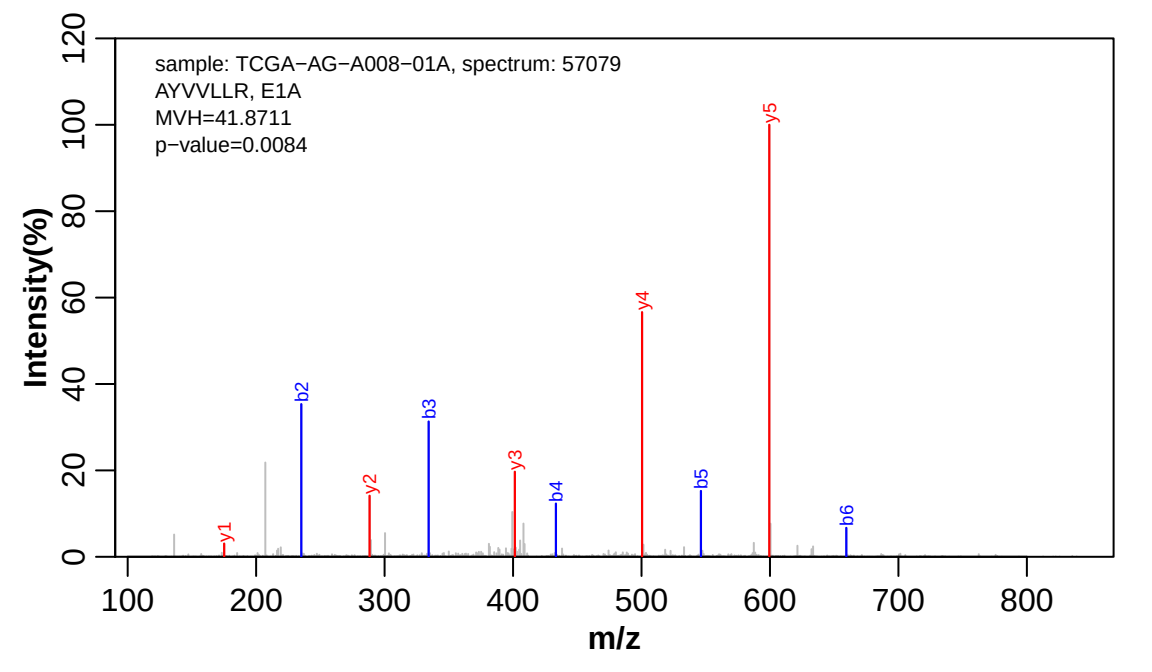

sample: TCGA−AG−A008−01A, spectrum: 58262
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.8577
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y5
b7
y6
b8
b25++
b28++
y13−H2O

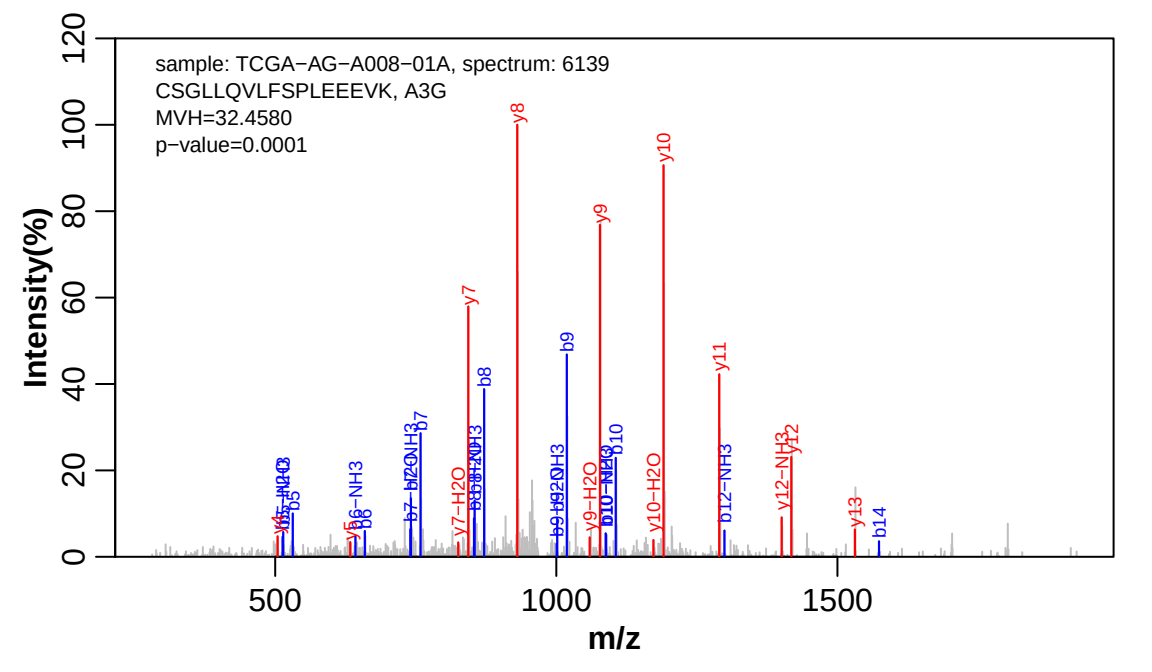

sample: TCGA−AG−A008−01A, spectrum: 44093
AAPSVTLFPPSSEELQANK, T2A
MVH=50.9478
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
y11−NH3
b7−H2O

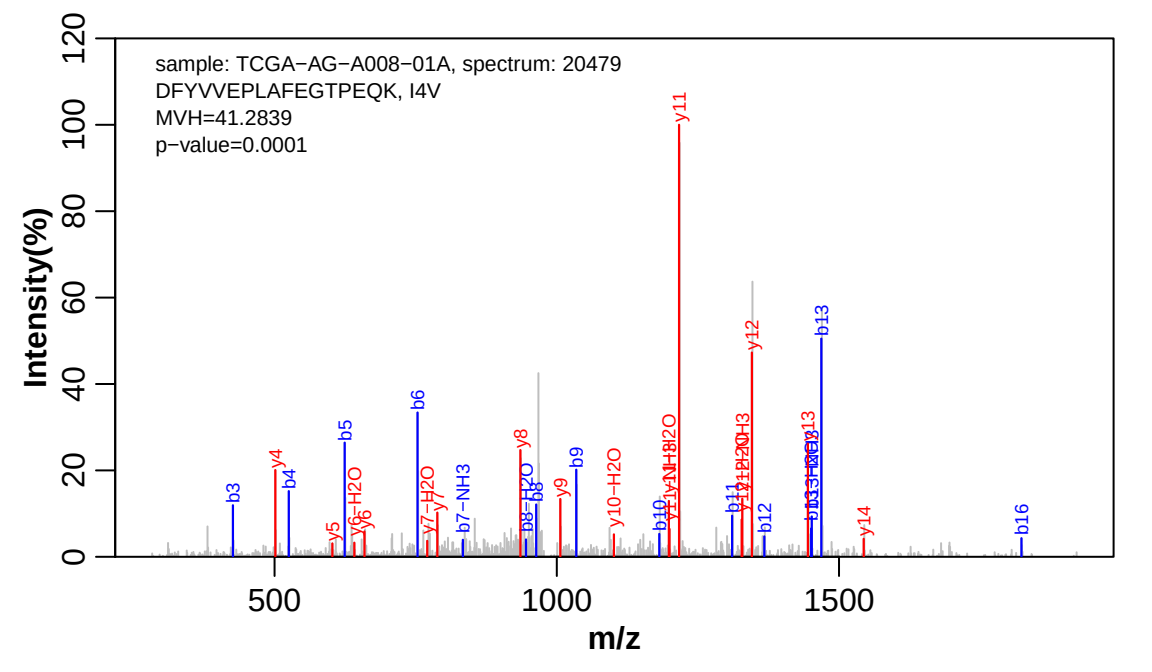

sample: TCGA−AG−A008−01A, spectrum: 36017
AHDGGLYALSWSPDSTR, H17R
MVH=55.9232
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b5
b6
y5
y6
b7−NH3
b7
b8
b9
b9−H2O
b9−NH3
y8
b10
y9
y10
b11−H2O
b11−NH3
b11
b12−H2O
b12
y11
y12
b14−H2O
b14
y14
y15

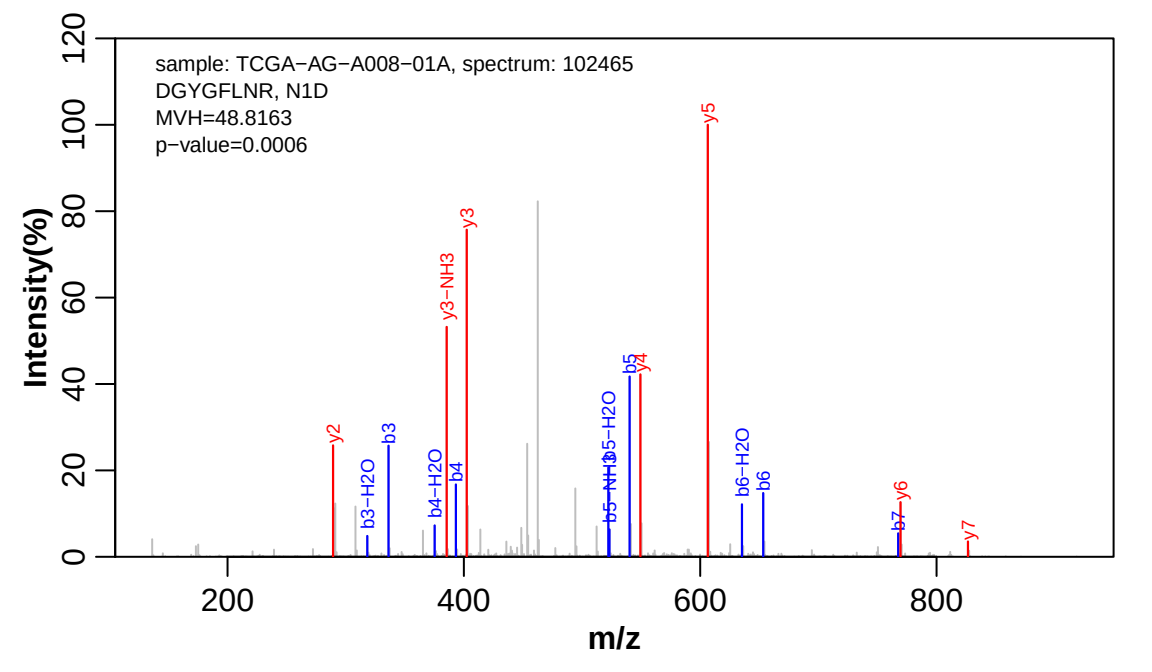

sample: TCGA−AG−A008−01A, spectrum: 82217
APPRPGPVPEAAQPFLSTTR, P19T
MVH=49.5472
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7++
y10++−H2O
y2
b11++
b12++
b15++
b13++−H2O
y9
y12++−H2O
y12++
b15++
b8
b16++
y7−NH3
b17++
y7
b18++−NH3−H2O
y8
b12
b13

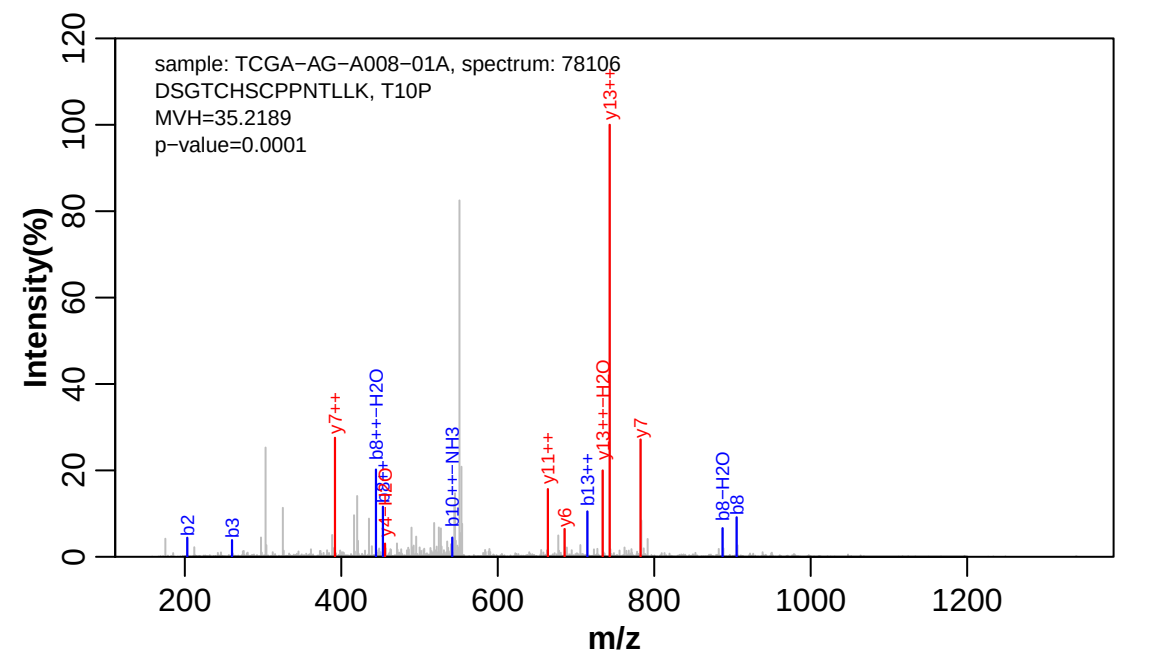

sample: TCGA−AG−A008−01A, spectrum: 43538
APSQHLSSFDPCFYR, R5H−
MVH=71.3476
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5++
b10++
y5
y6++
b9++−H2O
b5−H2O
b10++−H2O
y13++
y6
b10
b9
y10++
b12++

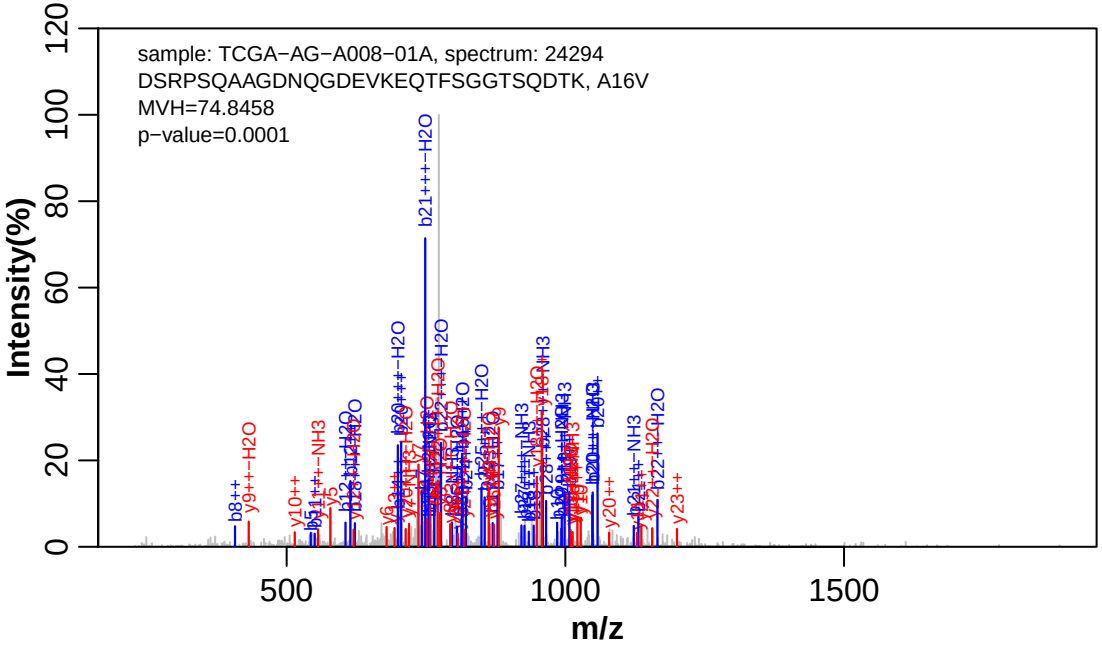

sample: TCGA−AG−A008−01A, spectrum: 57079
AYVVLLR, E1A
MVH=41.8711
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6

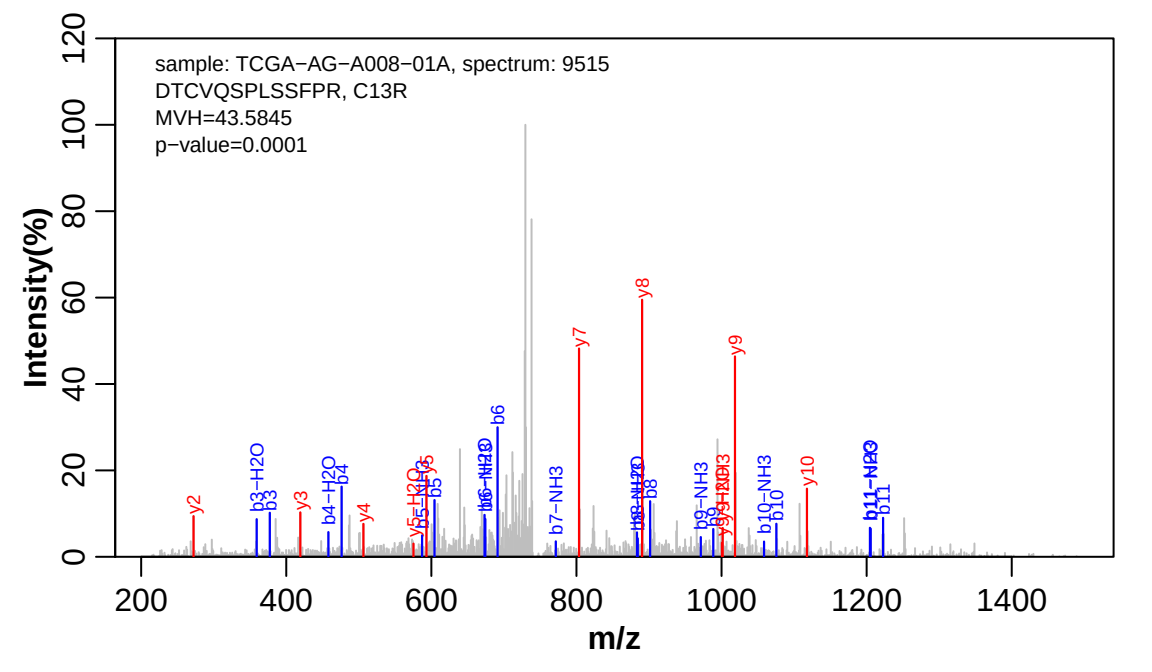

sample: TCGA−AG−A008−01A, spectrum: 6139
CSGLLQVLFSPLEEEVK, A3G
MVH=32.4580
p−value=0.0001
Intensity(%)
m/z
y8
y10
y9
y7
b9
b8
y11
y12
y13
b14
y7−H2O
y9−H2O
y10−H2O
y12−NH3
y12−NH3
b6−NH3
b7
b10

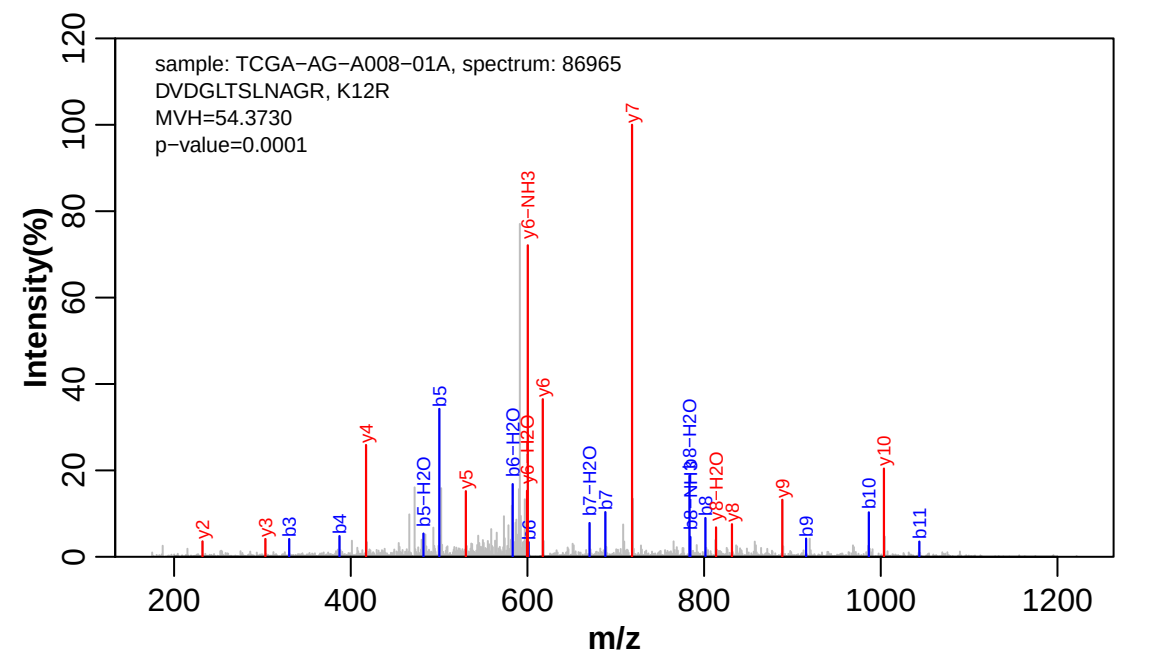

sample: TCGA−AG−A008−01A, spectrum: 20479
DFYVVEPLAFEGTPEQK, I4V
MVH=41.2839
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4
b4
y5
y6−H2O
y6
b5
b6
y7−H2O
y7
b7−NH3
y8
b8−H2O
b8
y9
b9
y10−H2O
b10
y11
b11
y12
b12
b13
y14
b16

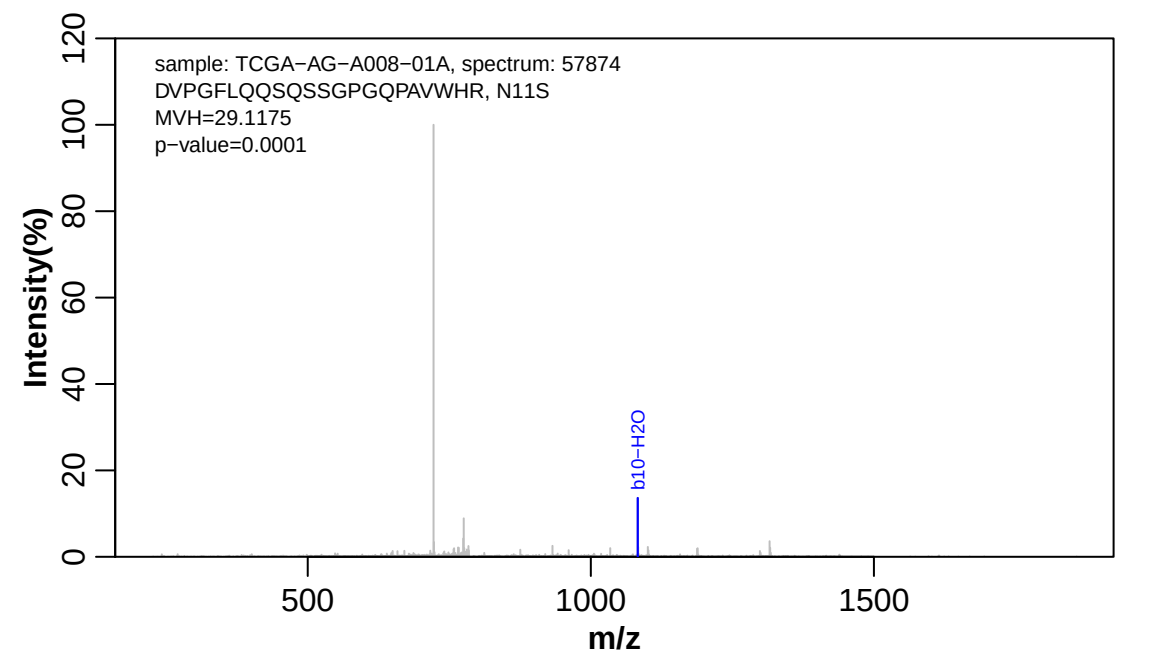

sample: TCGA−AG−A008−01A, spectrum: 102465
DGYGFLNR, N1D
MVH=48.8163
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y3−NH3
y2
b3
b3−H2O
b4−H2O
b4
b5−NH3
b5−H2O
b5
y4
b6−H2O
b6
b7
y6
y7

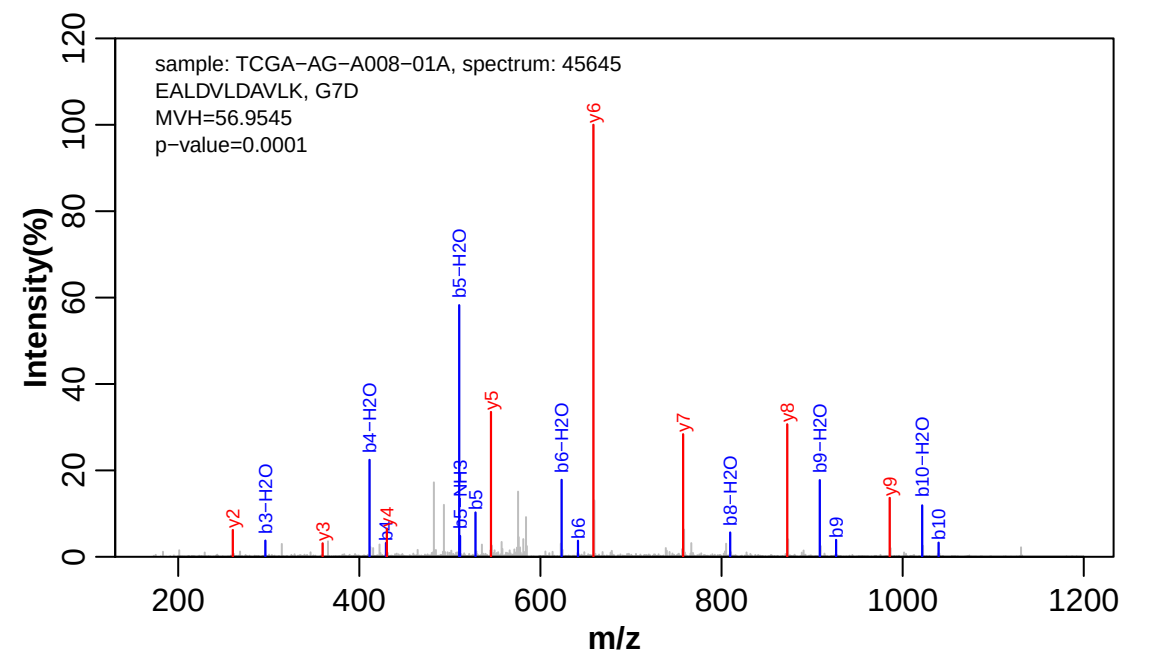

sample: TCGA−AG−A008−01A, spectrum: 78106
DSGTCHSCPPNTLLK, T10P
MVH=35.2189
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y7++
b8++−H2O
y4−H2O
b10++−NH3
y11++
y6
b13++
y13++−H2O
y13++
y7
b8−H2O
b8

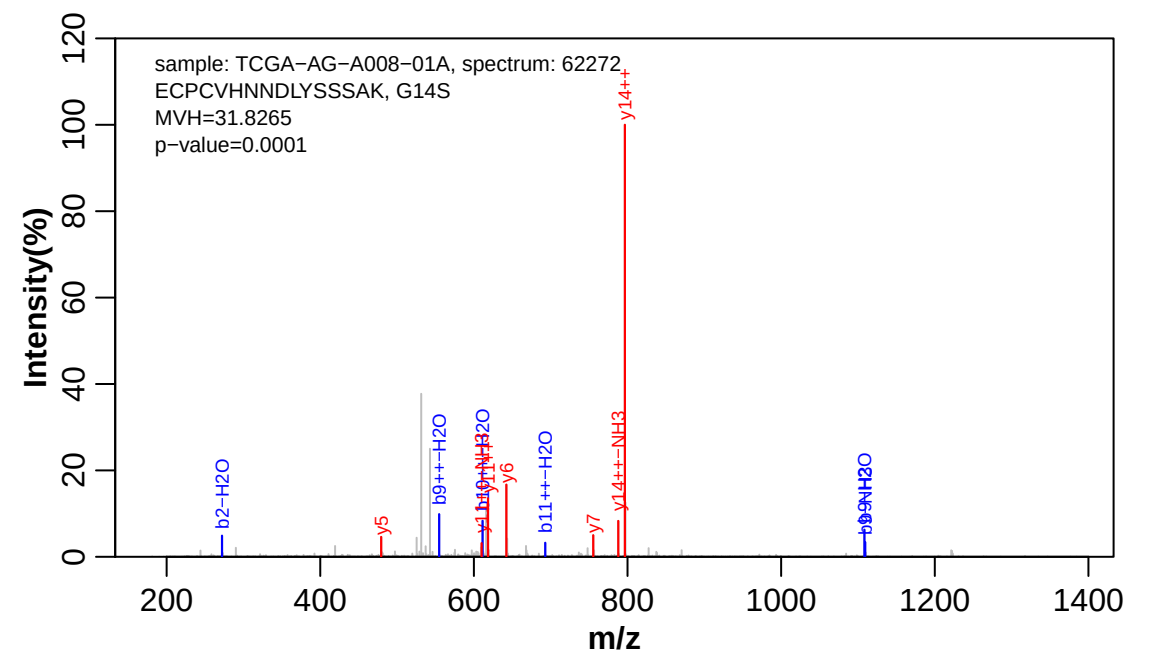

sample: TCGA−AG−A008−01A, spectrum: 24294
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=74.8458
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b21+++−H2O
b8++
y9++−H2O
y10++
y11++−NH3
y5+
y20++
y23++

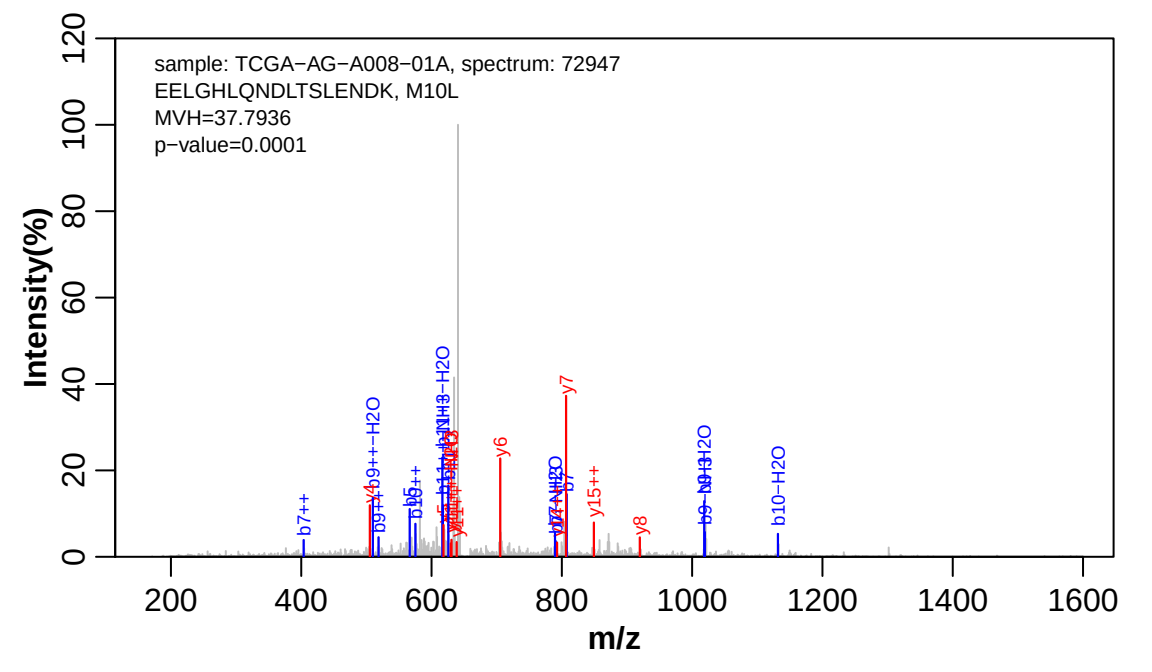

sample: TCGA−AG−A008−01A, spectrum: 9515
DTCVQSPLSSFPR, C13R
MVH=43.5845
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b6
y7
b7−NH3
y8
b8
y9
b9−NH3
b10−NH3
b10
y10
b11
b11−NH3

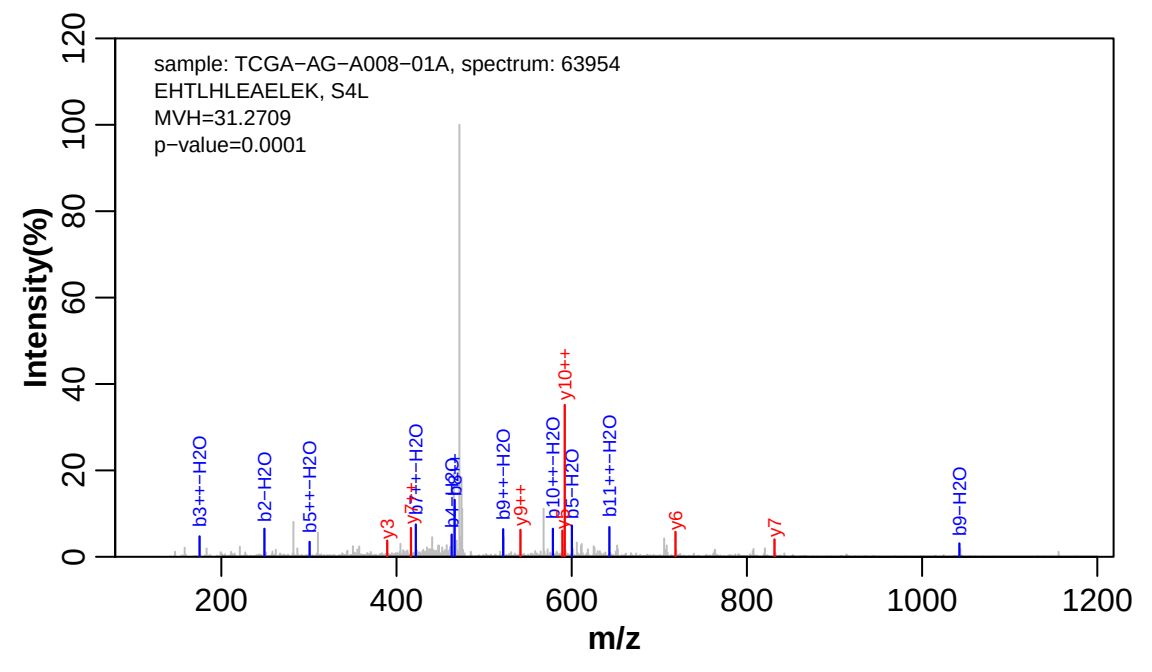

sample: TCGA−AG−A008−01A, spectrum: 86965
DVDGLTSLNAGR, K12R
MVH=54.3730
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−H2O
y6−H2O
y6−NH3
y6
b6
b7−H2O
b7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y7
y9
b9
b10
y10
b11

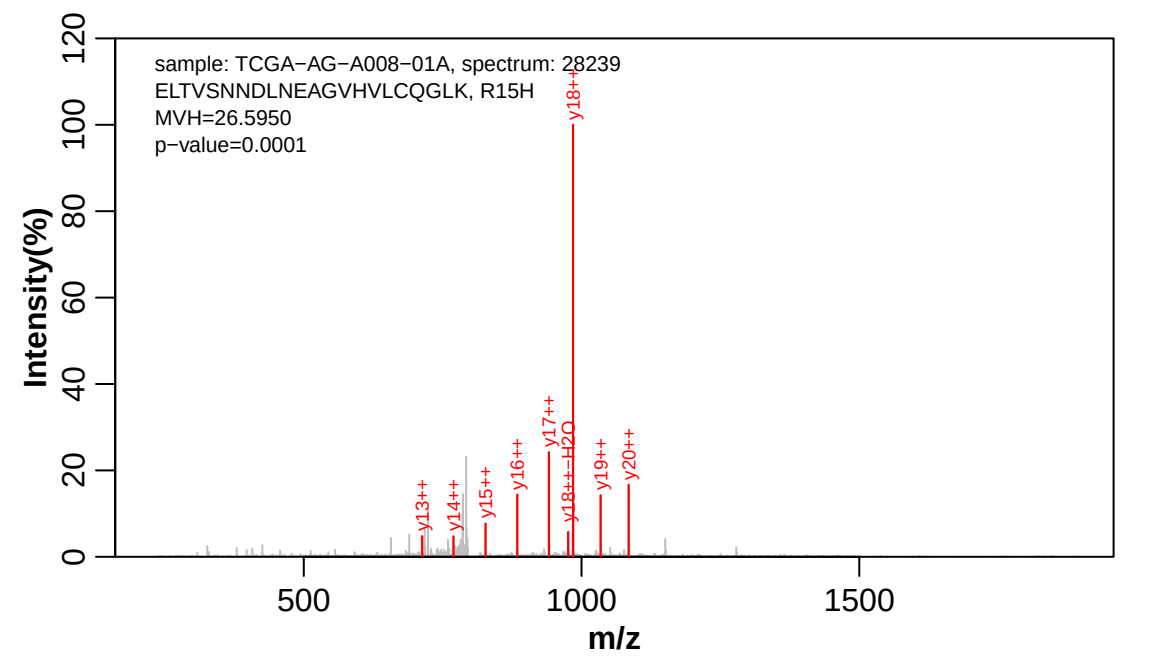

sample: TCGA−AG−A008−01A, spectrum: 57874
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=29.1175
p−value=0.0001
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

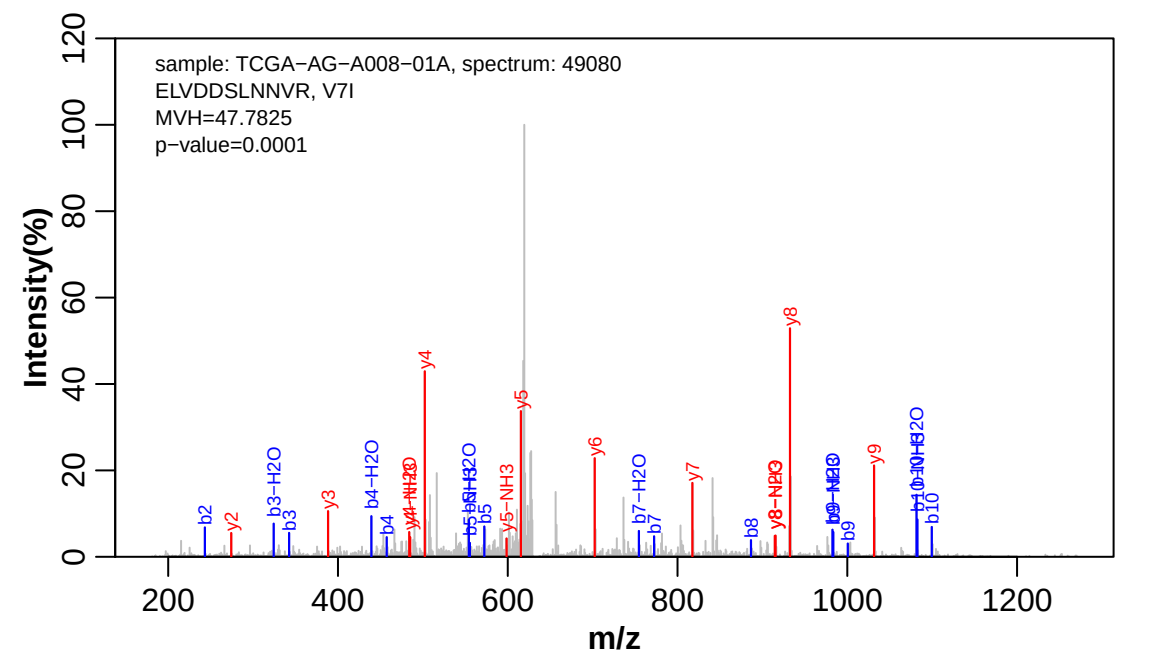

sample: TCGA−AG−A008−01A, spectrum: 45645
EALDVLDAVLK, G7D
MVH=56.9545
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
b4
b5−NH3
b5
b5−H2O
y5
y6
b6−H2O
b6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

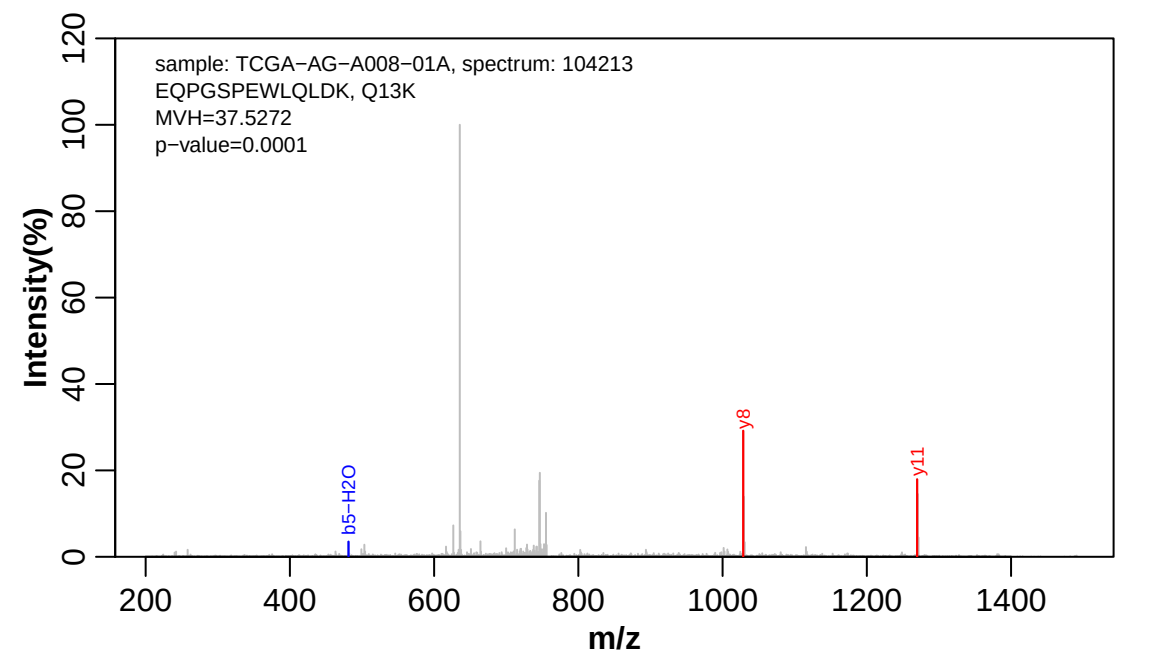

sample: TCGA−AG−A008−01A, spectrum: 62272
ECPCVHNNDLYSSSAK, G14S
MVH=31.8265
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
y5
b9++−H2O
y6
b11++−H2O
y7
y14++−NH3
y14++

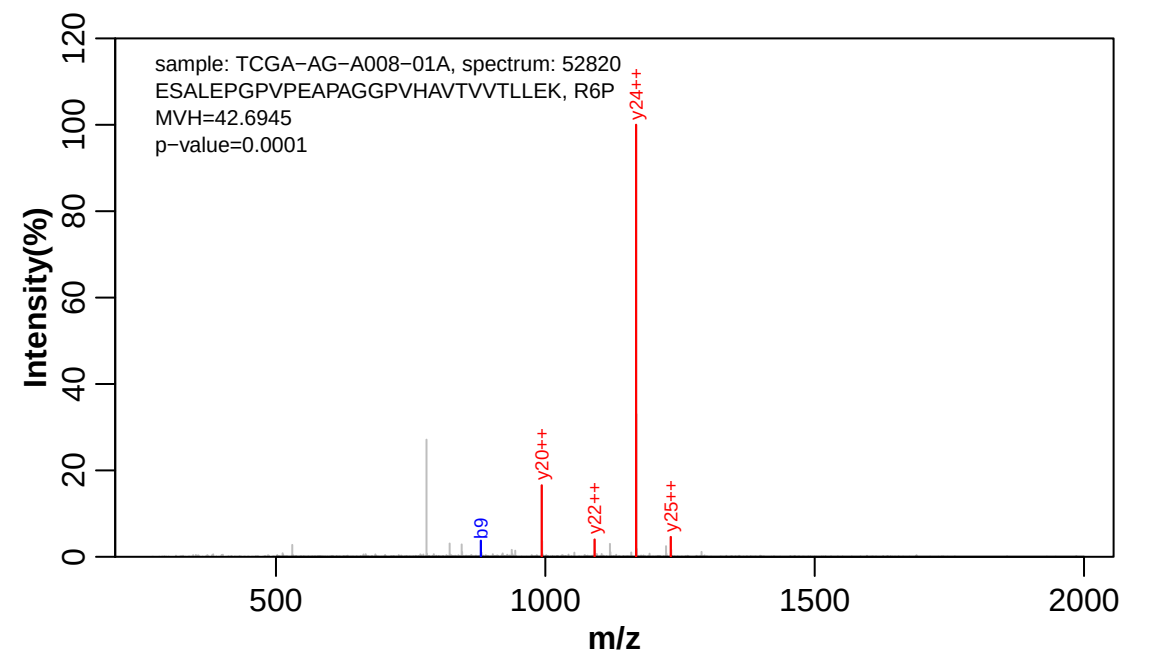

sample: TCGA−AG−A008−01A, spectrum: 72947
EELGHLQNDLTSLENDK, M10L
MVH=37.7936
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b7++
y9++−H2O
y6
y7
y15++
y8
b10−H2O

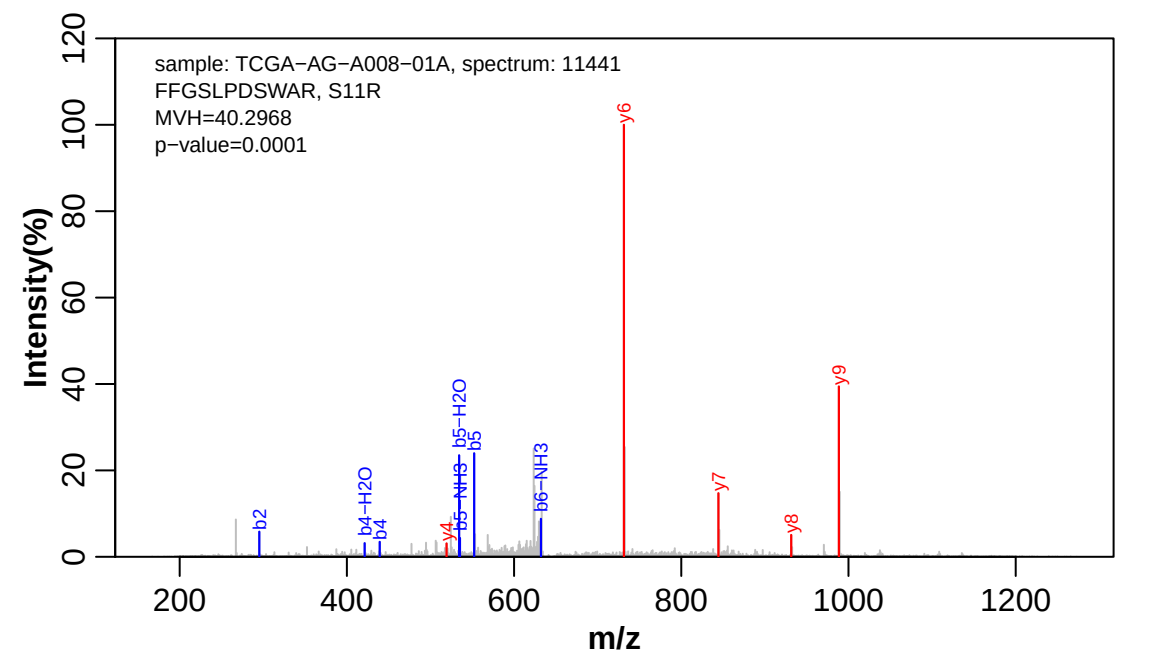

sample: TCGA−AG−A008−01A, spectrum: 63954
EHTLHLEAELEK, S4L
MVH=31.2709
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3++−H2O
b2−H2O
b5++−H2O
y3
y7++
y7++−H2O
b4−H2O
b9++−H2O
y9++
y10++
b10++−H2O
y8
b5−H2O
b11++−H2O
y6
y7
b9−H2O

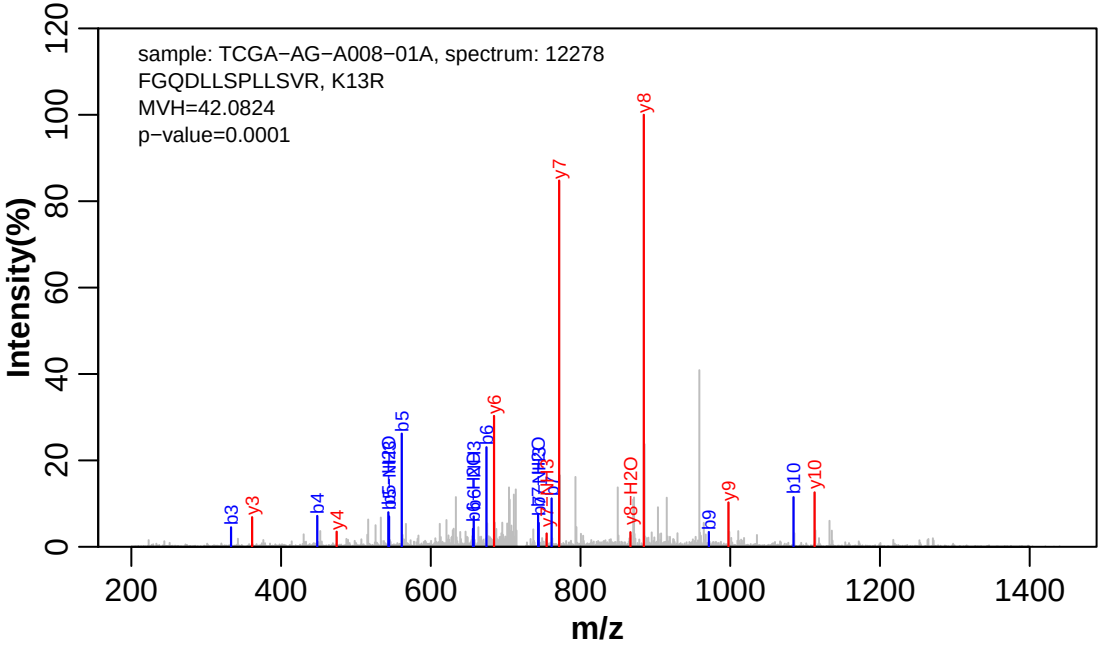

sample: TCGA−AG−A008−01A, spectrum: 28239
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=26.5950
p−value=0.0001
y18++
y17++
y18++−H2O
y16++
y19++
y20++
y15++
y14++
y13++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

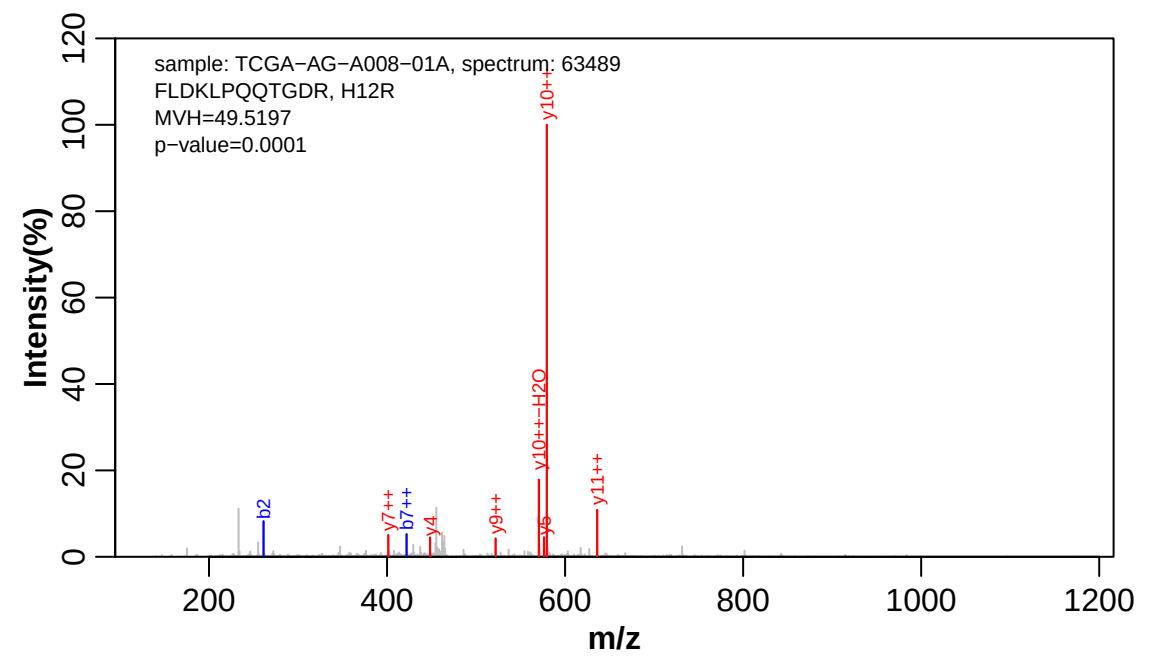

sample: TCGA−AG−A008−01A, spectrum: 49080
ELVDDSLNNVR, V7I
MVH=47.7825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
y5
b5
y5−NH3
y6
b7−H2O
b7
y7
b8
y8
y8−NH3
y9
b9
b10
b10−NH3−H2O

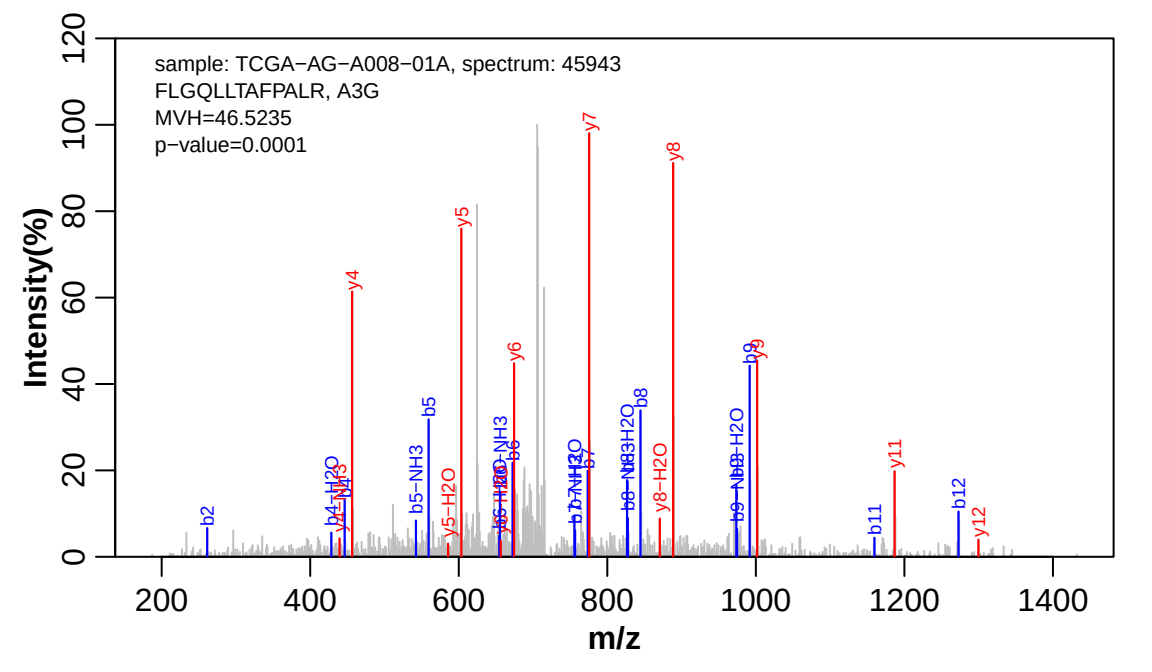

sample: TCGA−AG−A008−01A, spectrum: 104213
EQPGSPEWLQLDK, Q13K
MVH=37.5272
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y8
y11

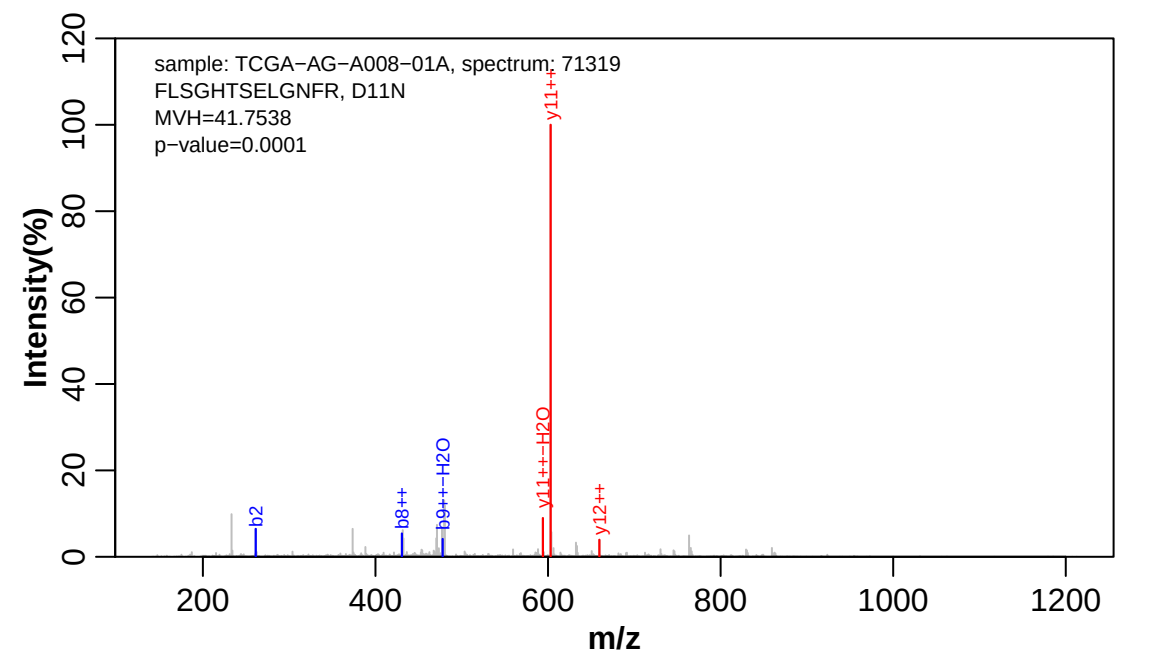

sample: TCGA−AG−A008−01A, spectrum: 52820
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=42.6945
p−value=0.0001
y24++
y20++
y22++
y25++
b9
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

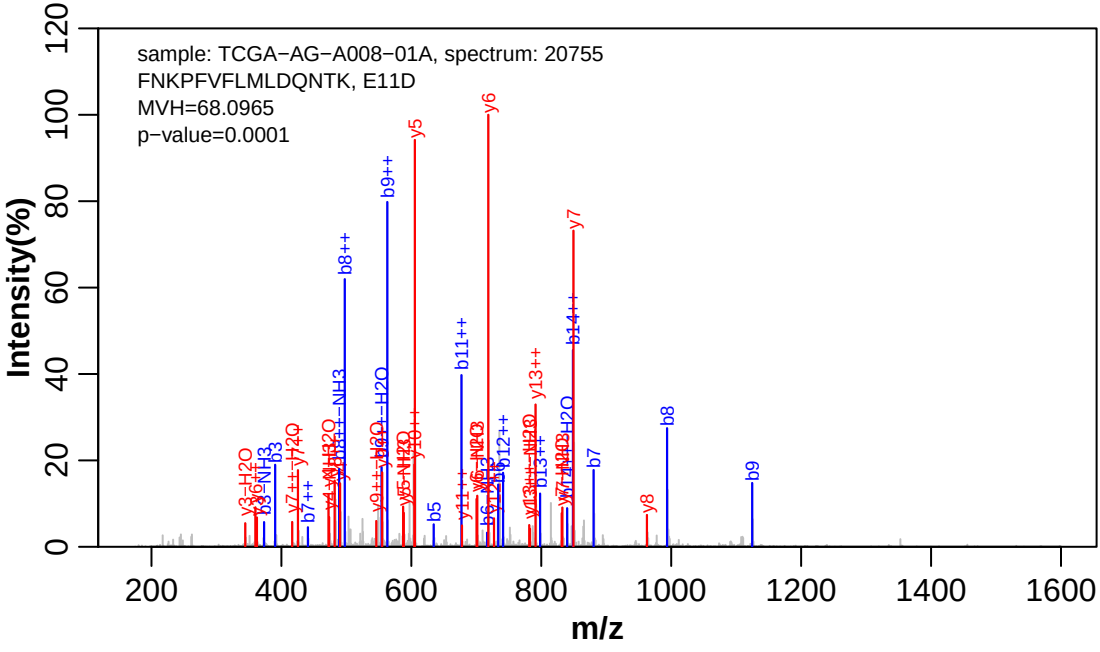

sample: TCGA−AG−A008−01A, spectrum: 11441
FFGSLPDSWAR, S11R
MVH=40.2968
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3

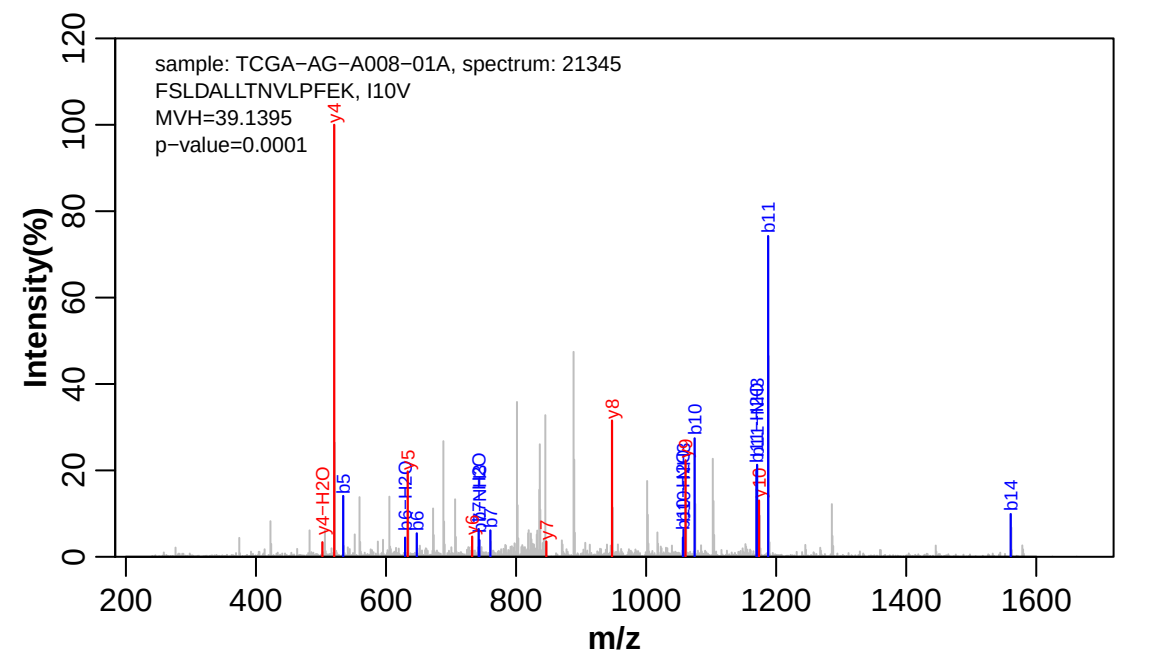

sample: TCGA−AG−A008−01A, spectrum: 12278
FGQDLLSPLLSVR, K13R
MVH=42.0824
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4
y4
b5
y6
y7
y8
y8−H2O
y9
b9
b10
y10

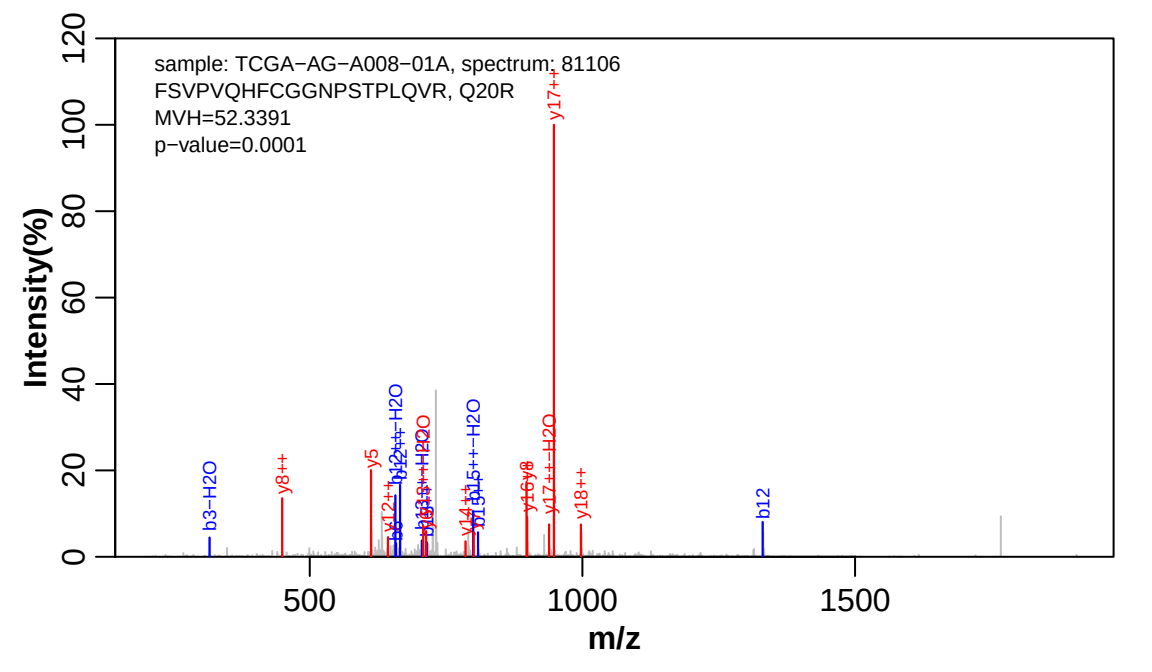

sample: TCGA−AG−A008−01A, spectrum: 63489
FLDKLPQQTGDR, H12R
MVH=49.5197
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y7++
b7++
y4
y9++
y10++−H2O
y5
y10++
y11++

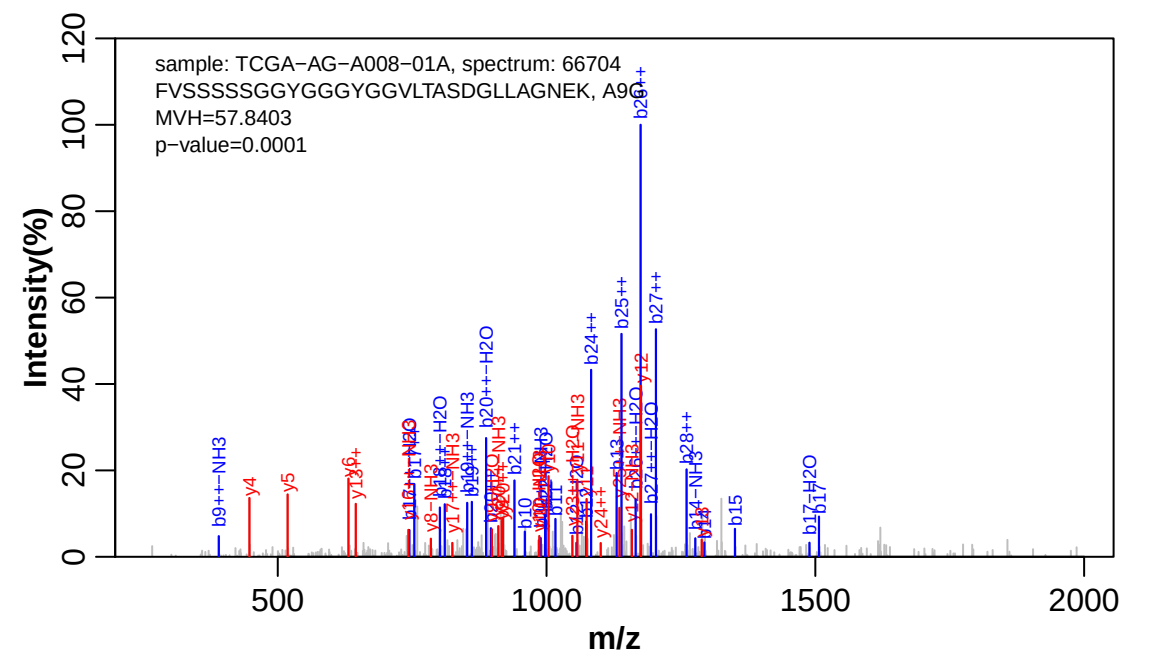

sample: TCGA−AG−A008−01A, spectrum: 45943
FLGQLLTAFPALR, A3G
MVH=46.5235
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4
b5
y5
y6
y7
y8
b8
y9
b9
y11
b12
y12
b11
b5−NH3
y5−H2O
y8−H2O
b9−H2O

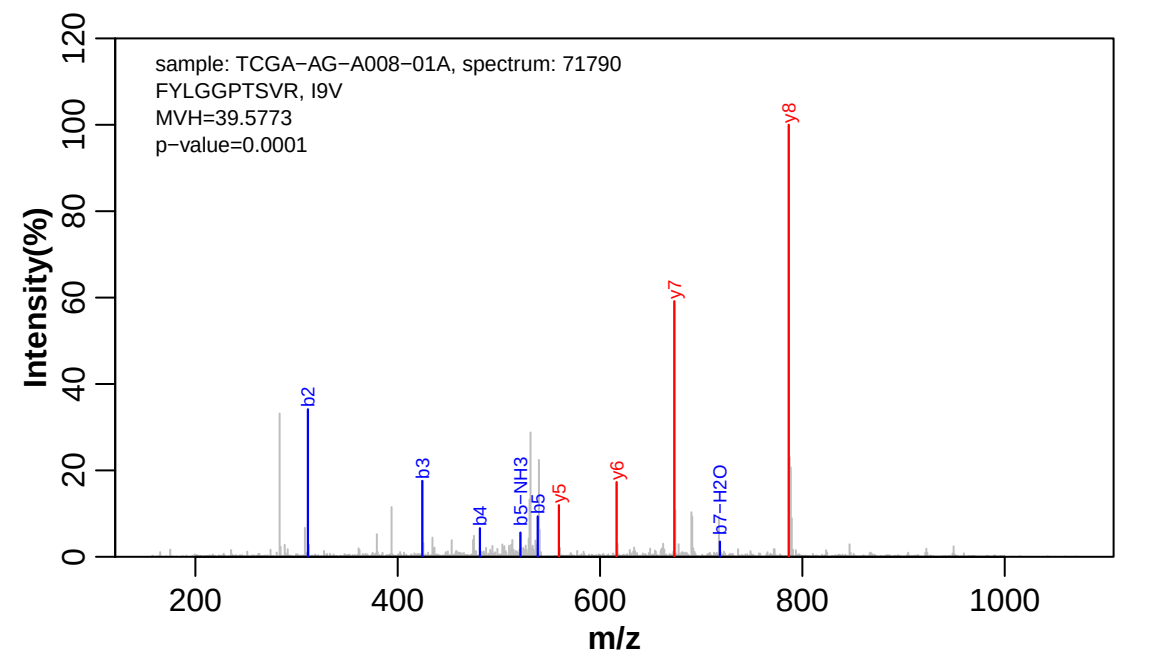

sample: TCGA−AG−A008−01A, spectrum: 71319
FLSGHTSELGNFR, D11N
MVH=41.7538
p−value=0.0001
y11++
y11++−H2O
y12++
b8++
b9++−H2O
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

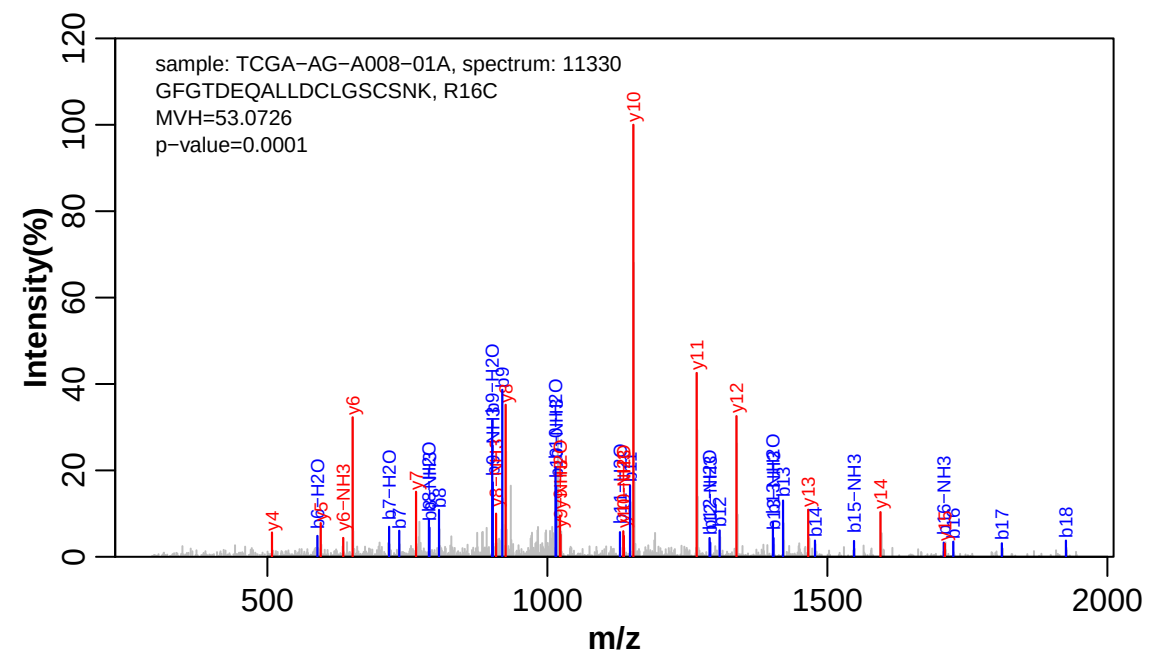

sample: TCGA−AG−A008−01A, spectrum: 20755
FNKPFVFLMLDQNTK, E11D
MVH=68.0965
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y5
b9++
b8++
y7
b14++
b11++
y13++
b8
b7
b9
y8
b5
b7++
y7++
b12++

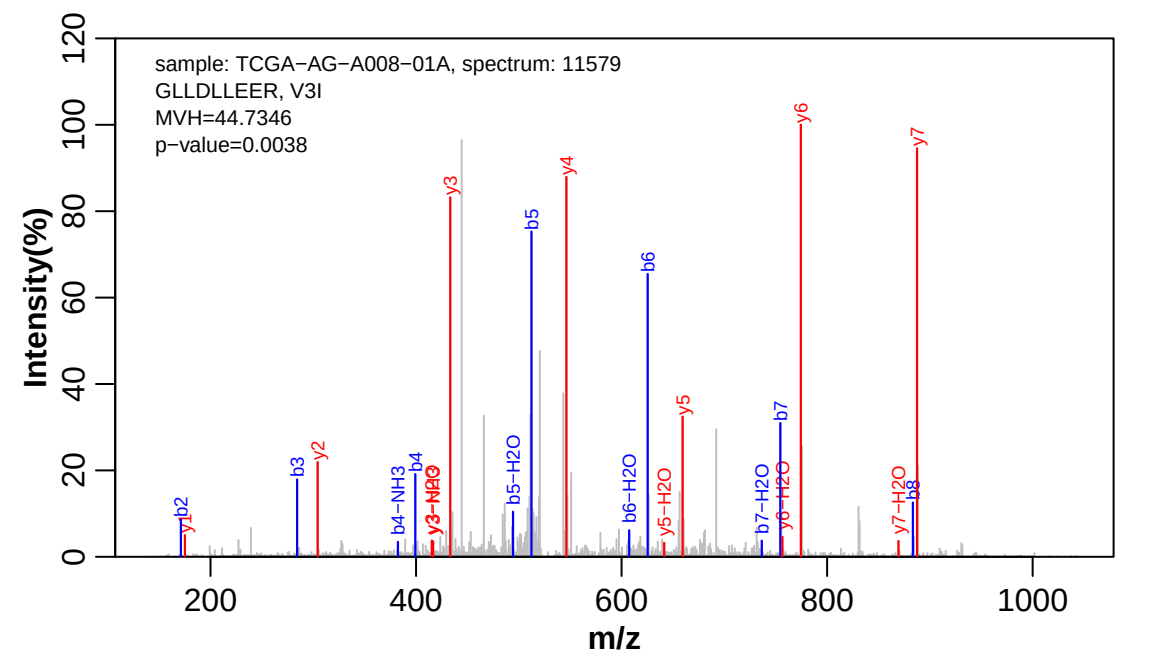

sample: TCGA−AG−A008−01A, spectrum: 21345
FSLDALLTNVLPFEK, I10V
MVH=39.1395
p−value=0.0001
Intensity(%)
m/z
y4
y4−H2O
b5
b6−H2O
b8
y6
y7
b7
y8
b10
b11
b14

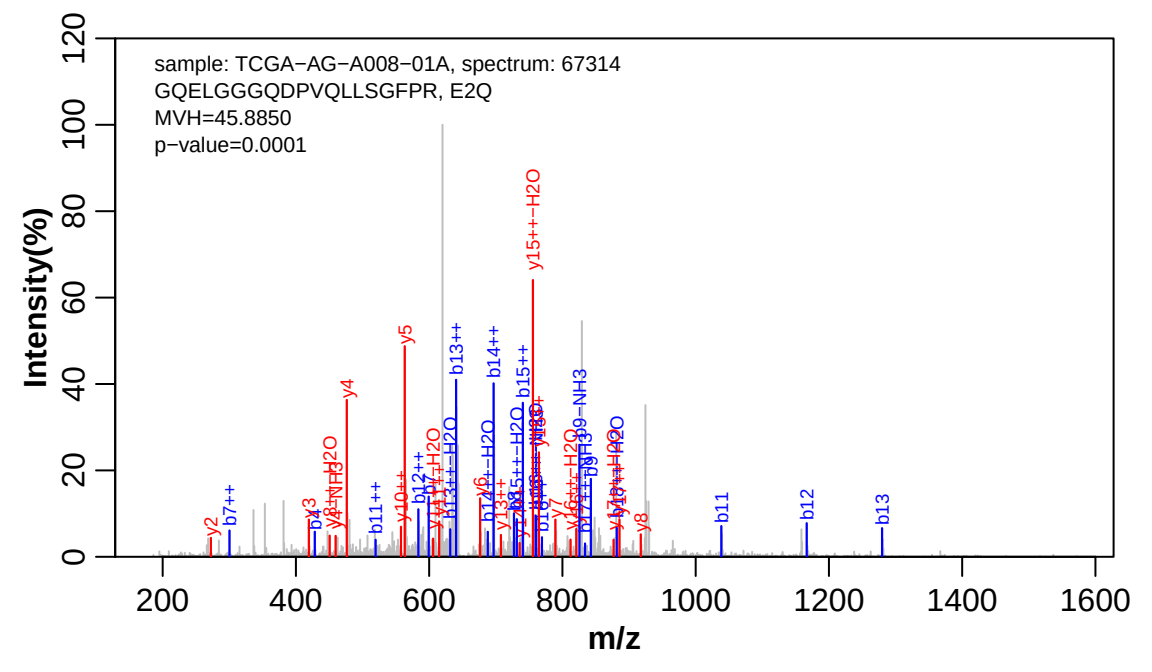

sample: TCGA−AG−A008−01A, spectrum: 81106
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=52.3391
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y8++
y5
y12++
b12++−H2O
b12++
y14++
b13++
y15++−H2O
y16y8
y17++−H2O
y17++
y18++
b12

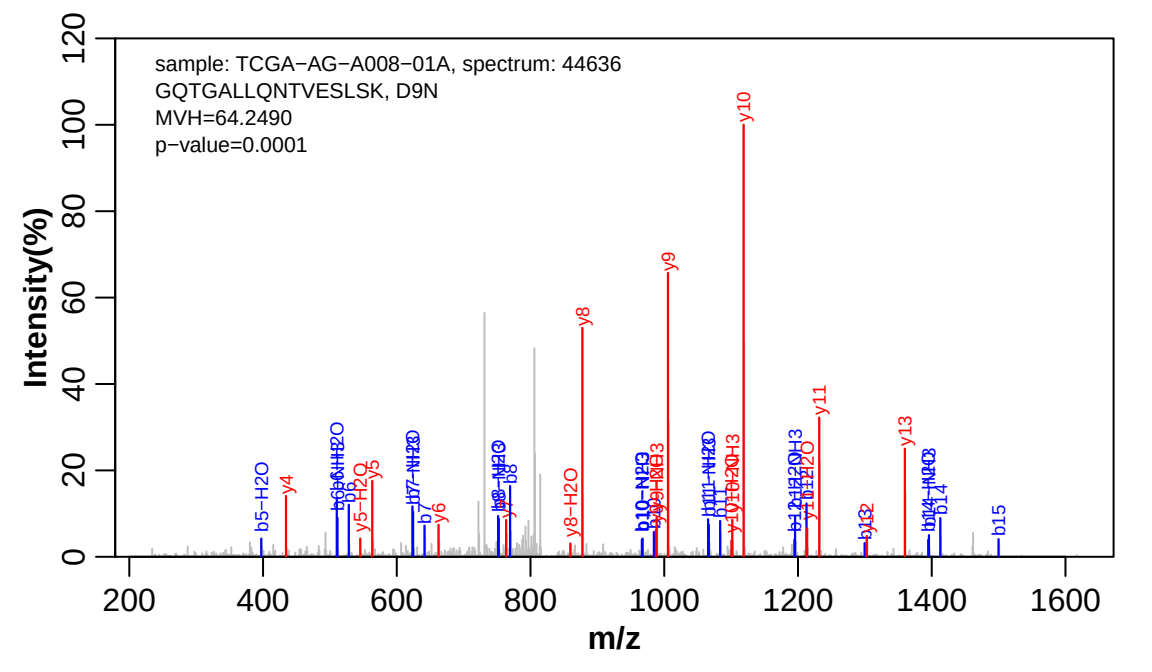

sample: TCGA−AG−A008−01A, spectrum: 66704
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=57.8403
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y13++
y6
b17++−NH3
b17++−H2O
b18++−NH3
b19++−NH3
b20++−H2O
b21++
b10
y24++
b24++
b25++
b27++
y12
b27++−H2O
b28++
b14−NH3
b15
b17−H2O
b17

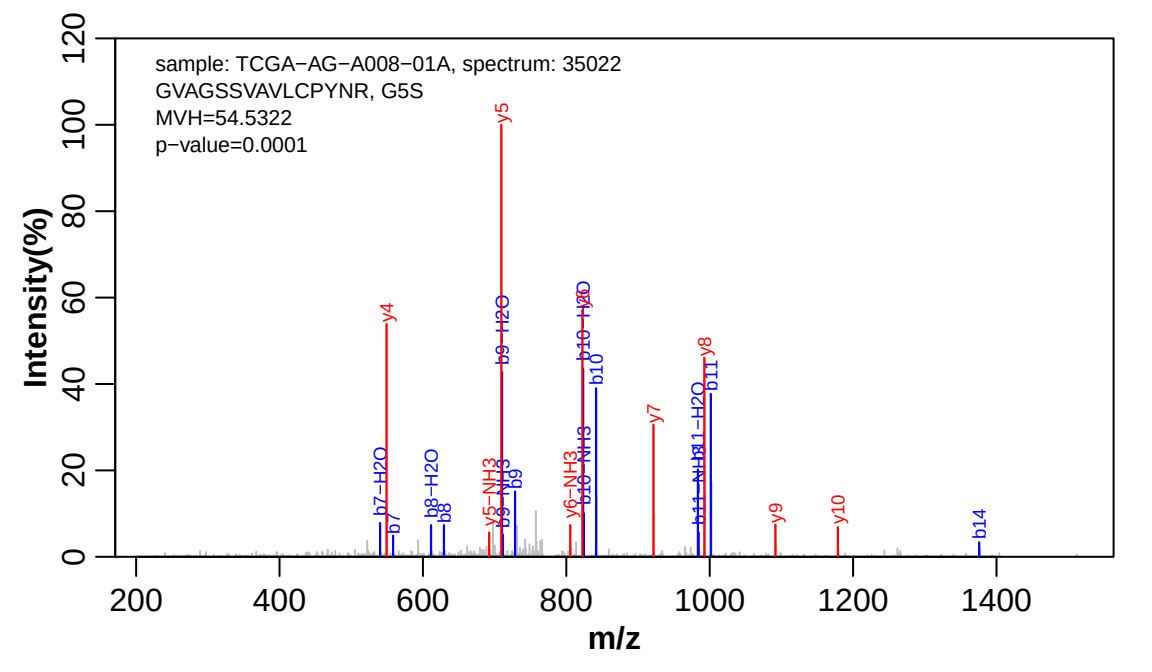

sample: TCGA−AG−A008−01A, spectrum: 71790
FYLGGPTSVR, I9V
MVH=39.5773
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5−NH3
b5
y5
y6
y7
y8
b7−H2O

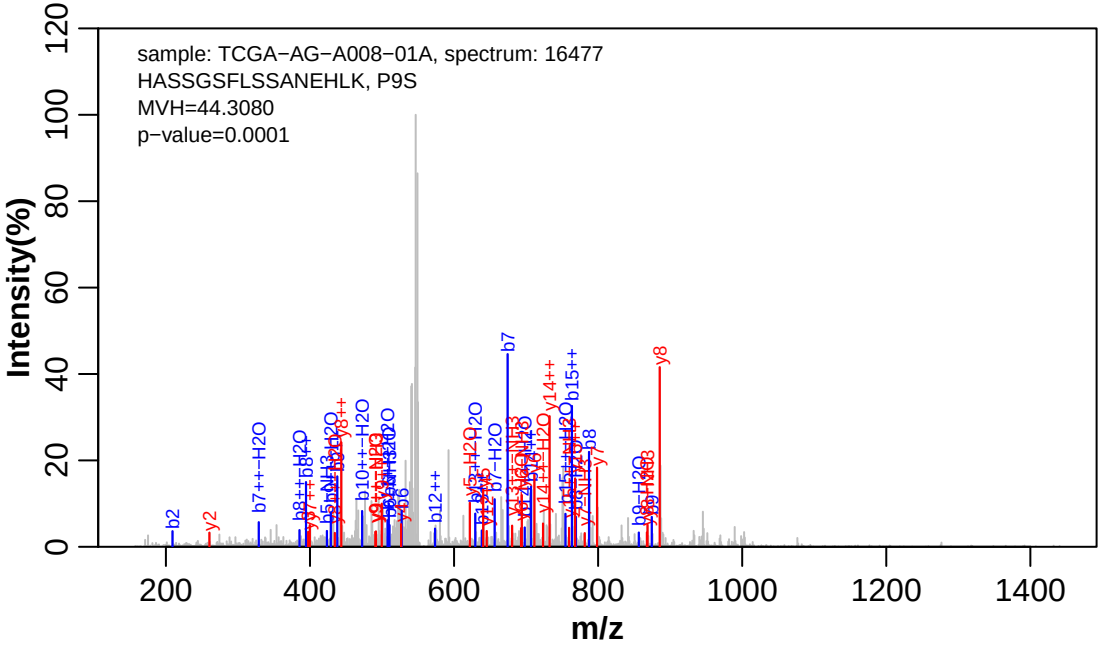

sample: TCGA−AG−A008−01A, spectrum: 11330
GFGTDEQALLDCLGSCSNK, R16C
MVH=53.0726
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y12
y6
y4
y14
y13
y7
b17
b18
b15−NH3
b16−NH3
b6−H2O
b7−H2O

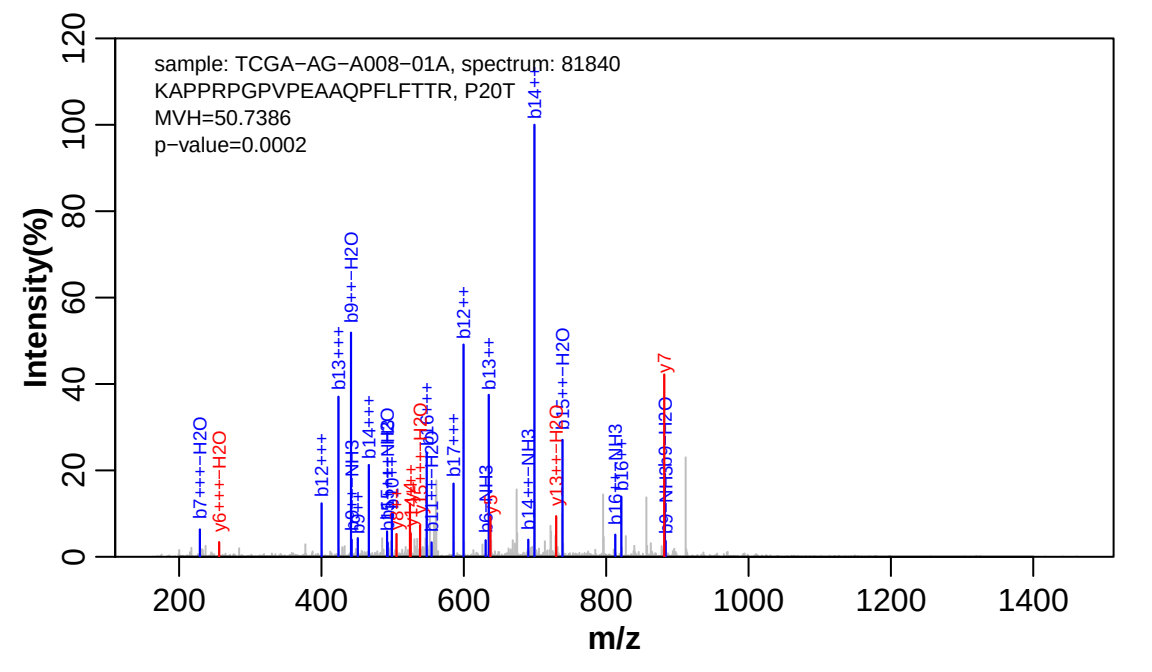

sample: TCGA−AG−A008−01A, spectrum: 11579
GLLDLLEER, V3I
MVH=44.7346
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b3
y2
b4−NH3
b4
y3−NH3
y3
b5−H2O
b5
y4
b6−H2O
b6
y5−H2O
y5
b7−H2O
y6−H2O
b7
y6
y7−H2O
b8
y7

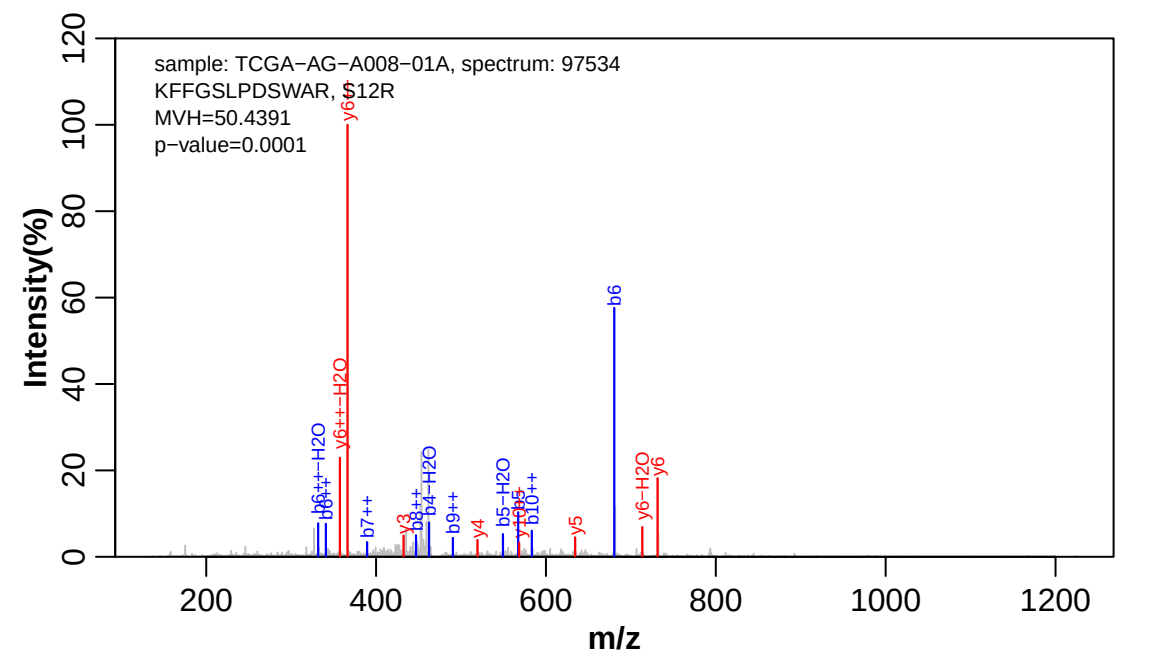

sample: TCGA−AG−A008−01A, spectrum: 67314
GQELGGGQDPVQLLSGFPR, E2Q
MVH=45.8850
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b7++
b4
y3
y8−NH3
y8−H2O
y4
y4−NH3
y4−H2O
b11++
y5
y10++
b12++
y11++
y11++−H2O
b13++
b13++−H2O
y6
b12+−H2O
b14++
y13++
b15++−H2O
b15++
y15++−H2O
y15++
y7
y6++−H2O
y6++
b9++−NH3
b9++
y15++−NH3
y15++
b14+−H2O
y10++−H2O
y8
b11
b12
b13

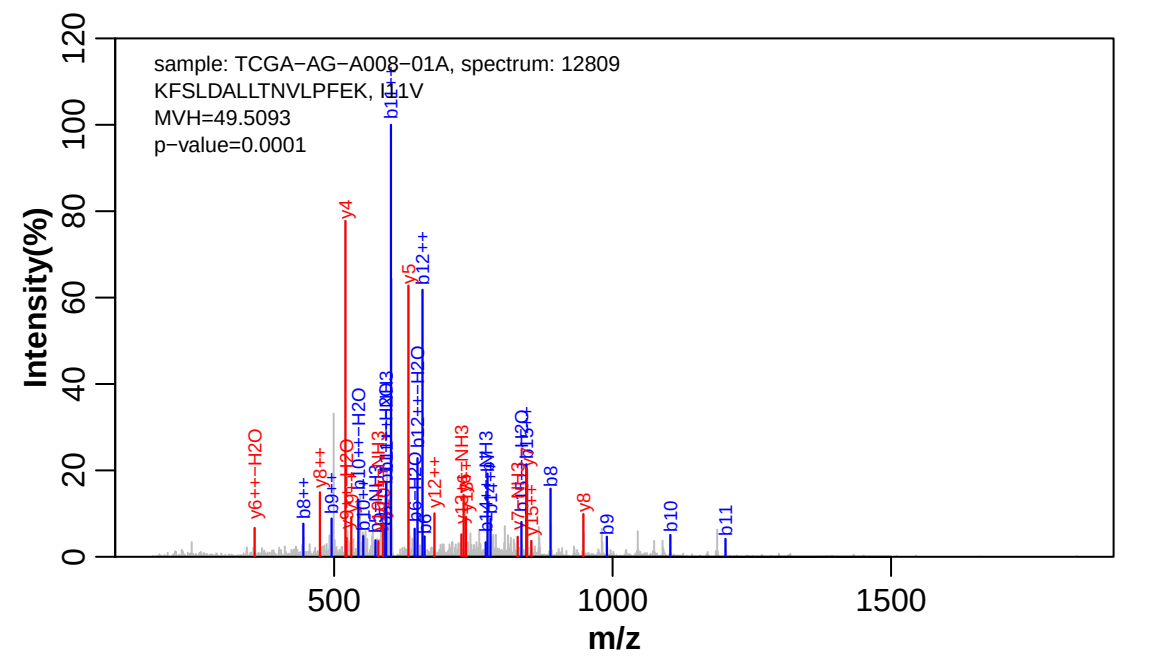

sample: TCGA−AG−A008−01A, spectrum: 44636
GQTGALLQNTVESLSK, D9N
MVH=64.2490
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5−H2O
y4
y5−H2O
y5
b7
y6
y8−H2O
y8
y9
y10
y11
y13
b15

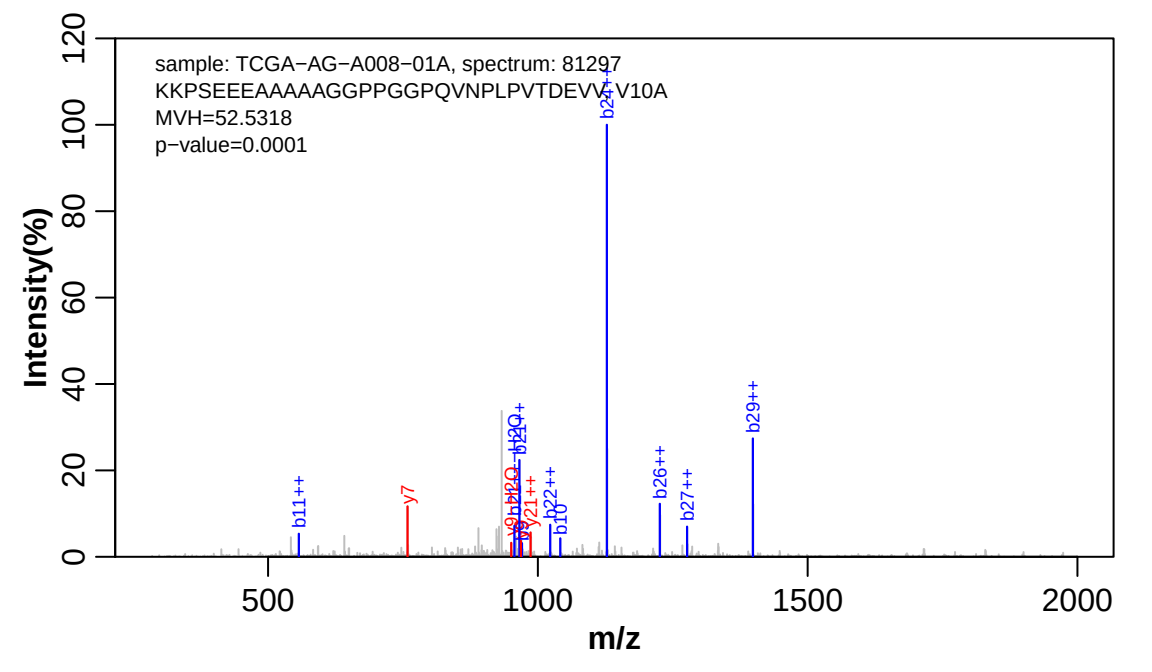

sample: TCGA−AG−A008−01A, spectrum: 35022
GVAGSSVAVLCPYNR, G5S
MVH=54.5322
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
y8
b10
b11
y7
b11−H2O
b7−H2O
b8−H2O
y5−NH3
y6−NH3
b10−NH3
y9
y10
b14
b7
b8
b9

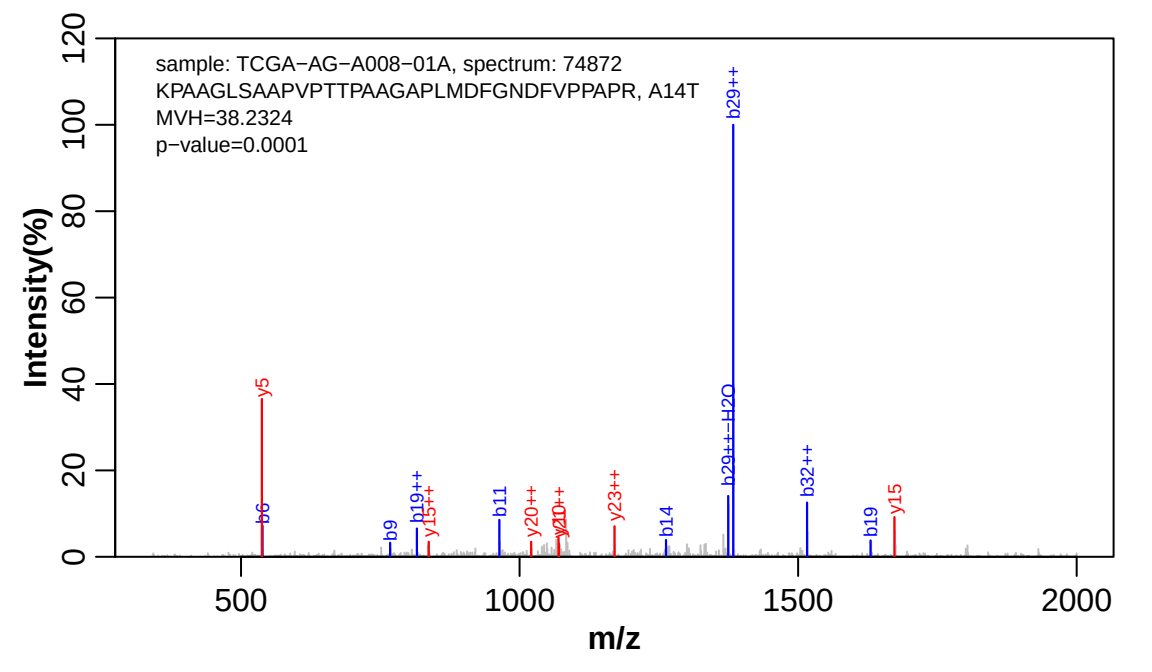

sample: TCGA−AG−A008−01A, spectrum: 16477
HASSGSFLSSANEHLK, P9S
MVH=44.3080
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b7++−H2O
b8++
y8++
b10++−H2O
b12++
b7
y14++
b15++
y8
b8++−H2O

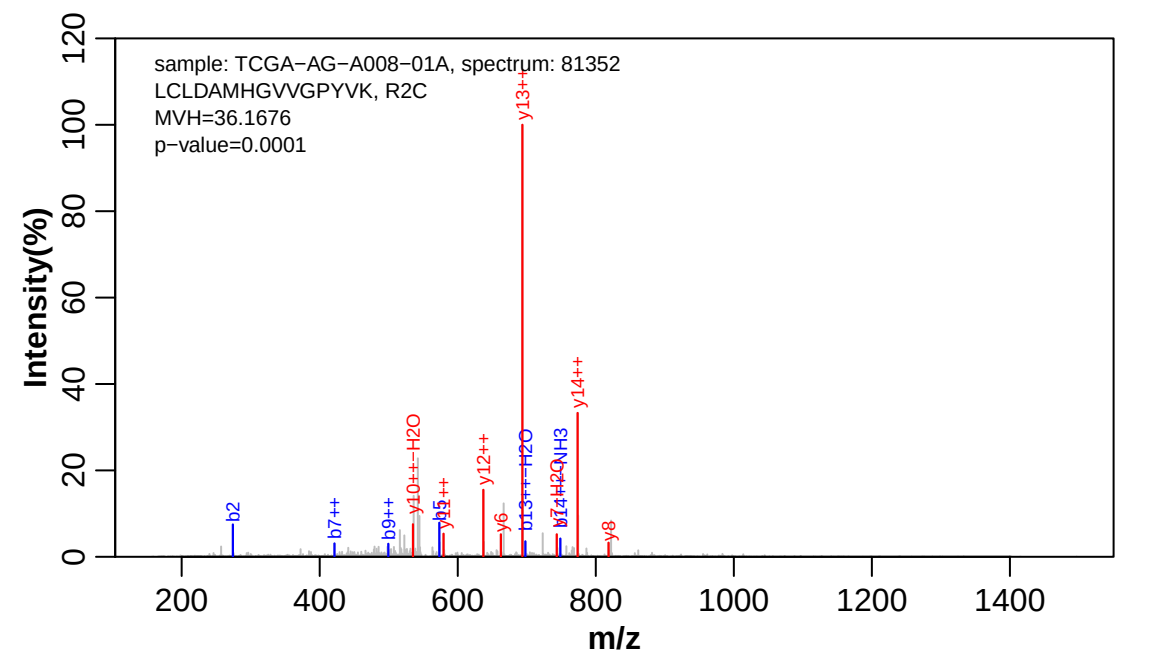

sample: TCGA−AG−A008−01A, spectrum: 81840
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=50.7386
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b7+++−H2O
y6+++−H2O
b12+++
b13+++
b9++−H2O
b14+++
b12++
b13++
b17+++
b14++−NH3
y13++−H2O
b15+++−H2O
y7
b16++−NH3
b9−NH3
b9−H2O
b14++

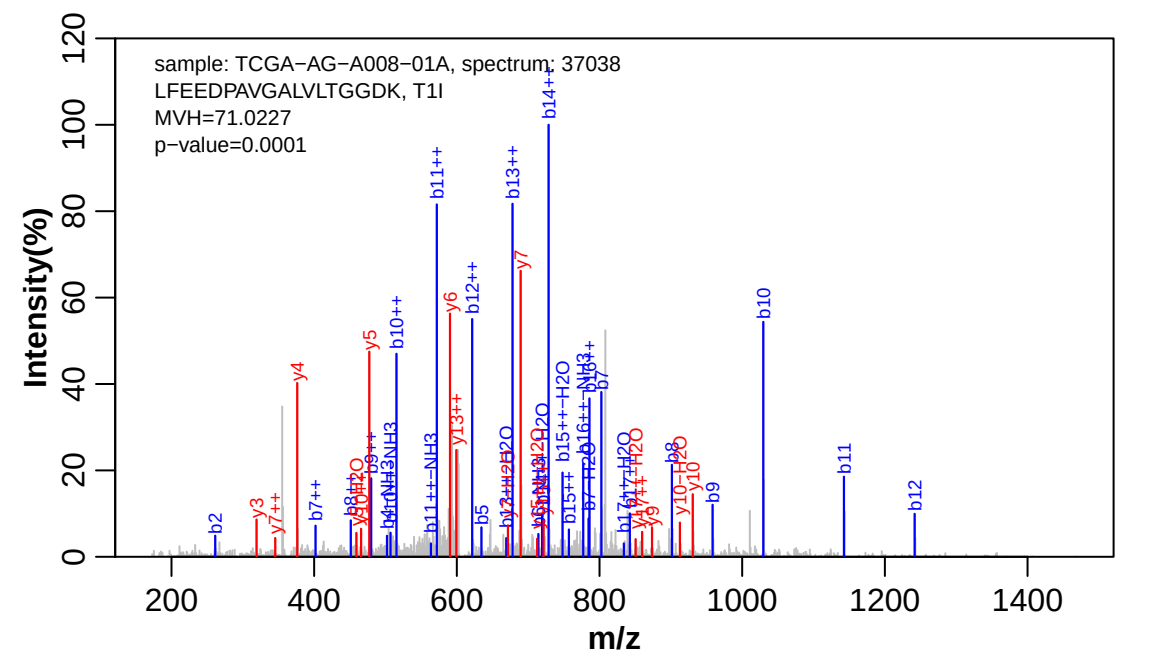

sample: TCGA−AG−A008−01A, spectrum: 97534
KFFGSLPDSWAR, S12R
MVH=50.4391
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++
y6++−H2O
b6++−H2O
b6++
b7++
y3
b3++
b4−H2O
b9++
y4
b5−H2O
b10++
y5
b6
y6−H2O
y6

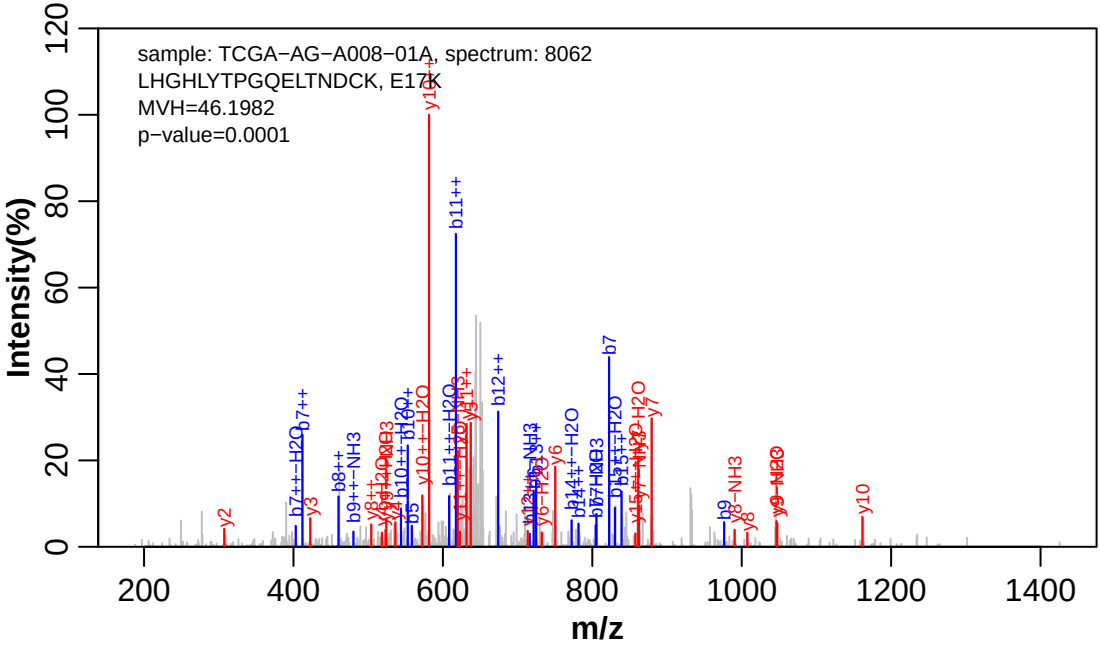

sample: TCGA−AG−A008−01A, spectrum: 12809
KFSLDALLTNVLPFEK, I11V
MVH=49.5093
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y4
y5
b12++
y6++−H2O
b8++
y8++
b9++
b10++−H2O
b12++−H2O
b8
y12++
y8
b9
b10
b11

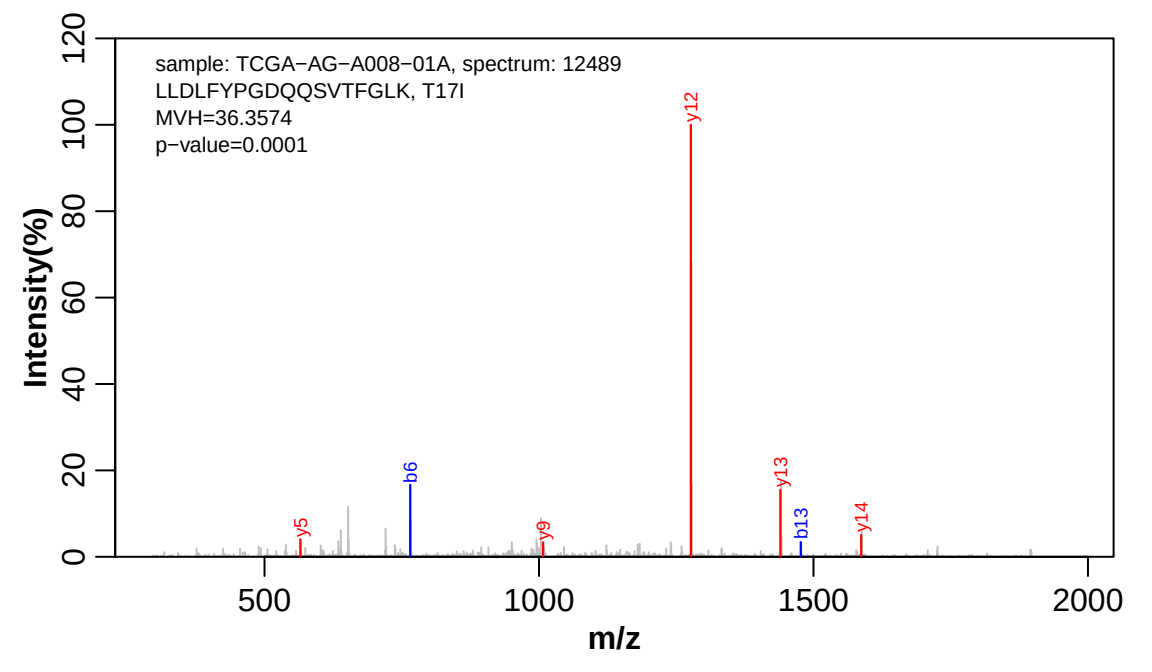

sample: TCGA−AG−A008−01A, spectrum: 81297
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=52.5318
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b11++
y7
y21++
b22++
b10
b24++
b26++
b27++
b29++

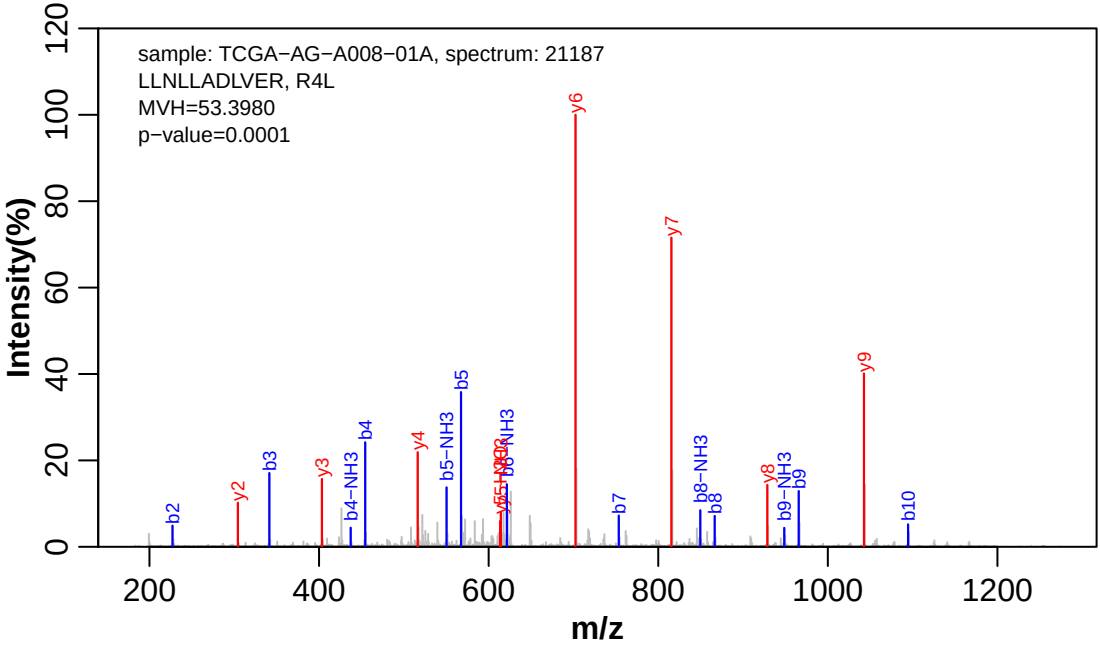

sample: TCGA−AG−A008−01A, spectrum: 74872
KPAAGLSAAPVPTTPAAGAPLMDFGNDFVPPAPR, A14T
MVH=38.2324
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y5
b6
b9
b19++
y13++
b11
y20++
y21++
y23++
b14
b29++
b29++−H2O
b32++
b19
y15

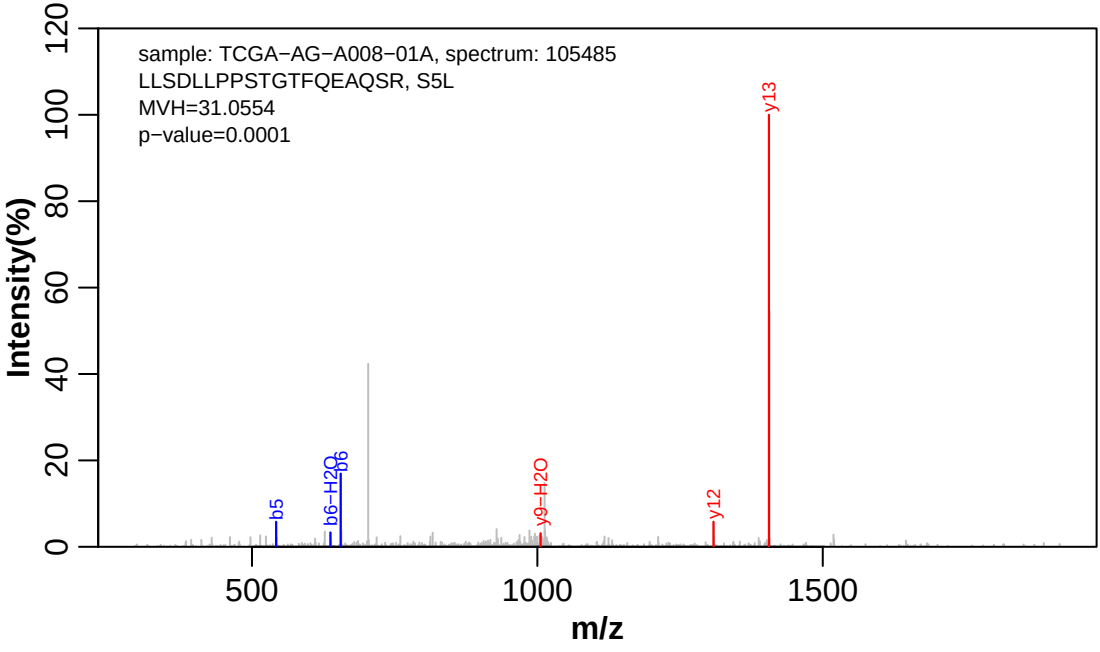

sample: TCGA−AG−A008−01A, spectrum: 81352
LCLDAMHGVVGPYVK, R2C
MVH=36.1676
p−value=0.0001
Intensity(%)
m/z
b2
b7++
b9++
y10++−H2O
y5++
y12++
y6−
b13++−H2O
b14++−NH3
y14++
y8
y13++

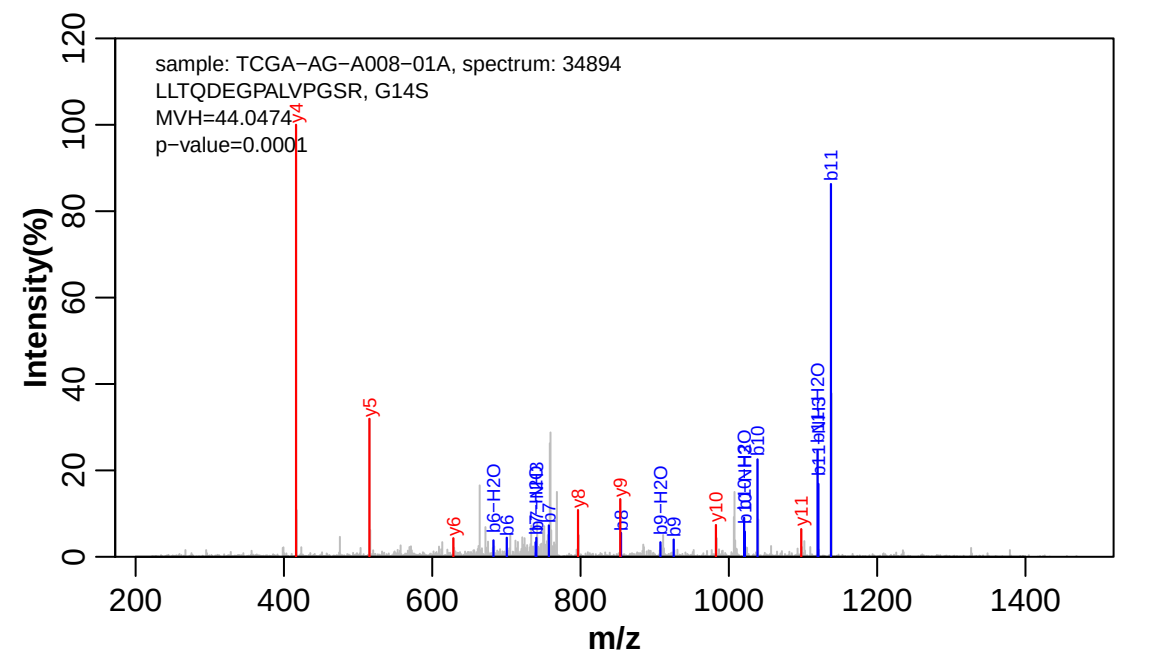

sample: TCGA−AG−A008−01A, spectrum: 37038
LFEEDPAVGALVLTGGDK, T1I
MVH=71.0227
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y7++
y4
b7++
y5
b10++
b11++−NH3
b11++
y6
b12++
y13+++
b5
y7
b13++
b14++
b15++−H2O
b15++
b16++−NH3
b7
b10
b11
b12
b9
y10−H2O
b8
y9

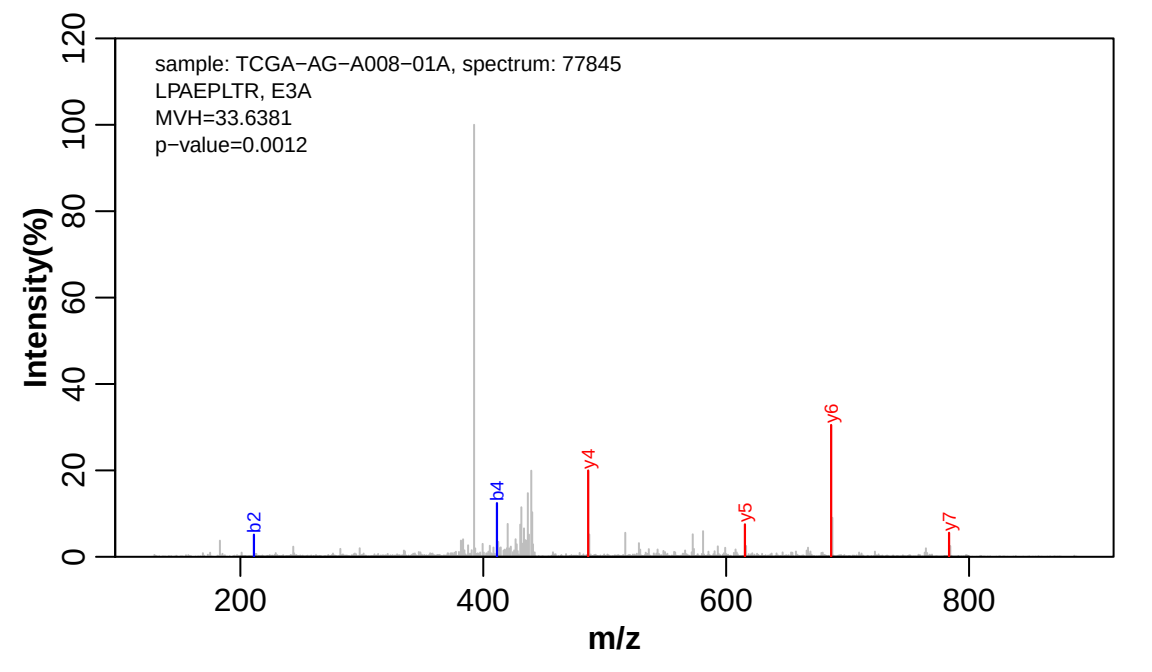

sample: TCGA−AG−A008−01A, spectrum: 8062
LHGHLYTPGQELTNDCK, E17K
MVH=46.1982
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10++
b11++
b12++
b7++
y3
y2
y10

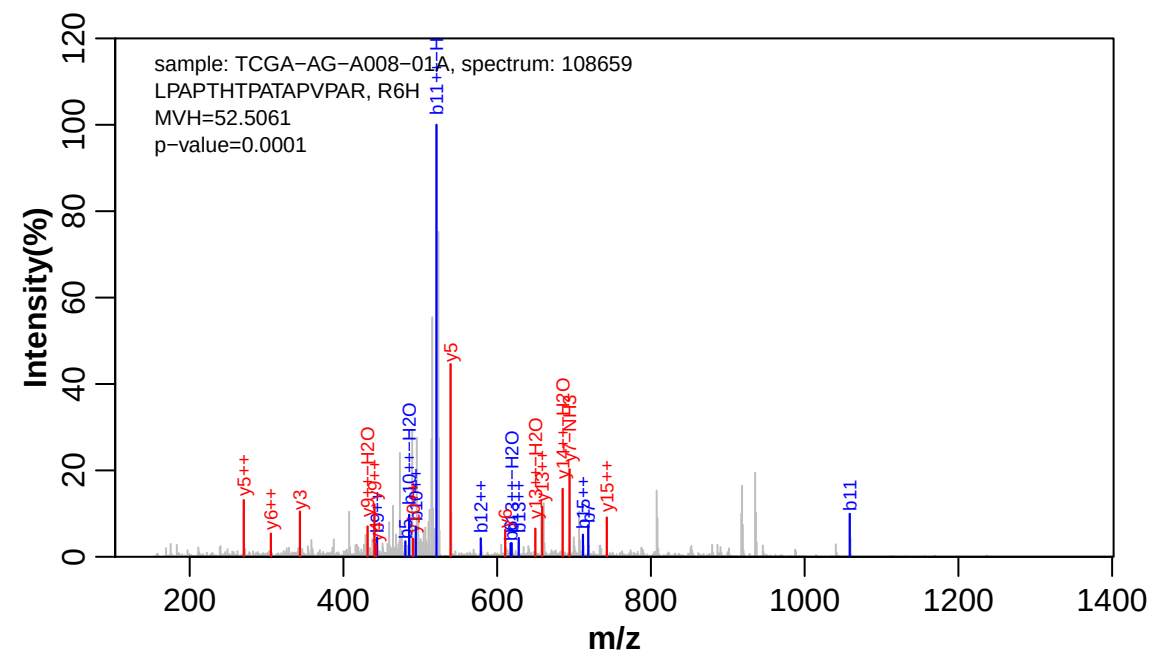

sample: TCGA−AG−A008−01A, spectrum: 12489
LLDLFYPGDQQSVTFGLK, T17I
MVH=36.3574
p−value=0.0001
y12
b6
y5
y9
y13
b13
y14
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

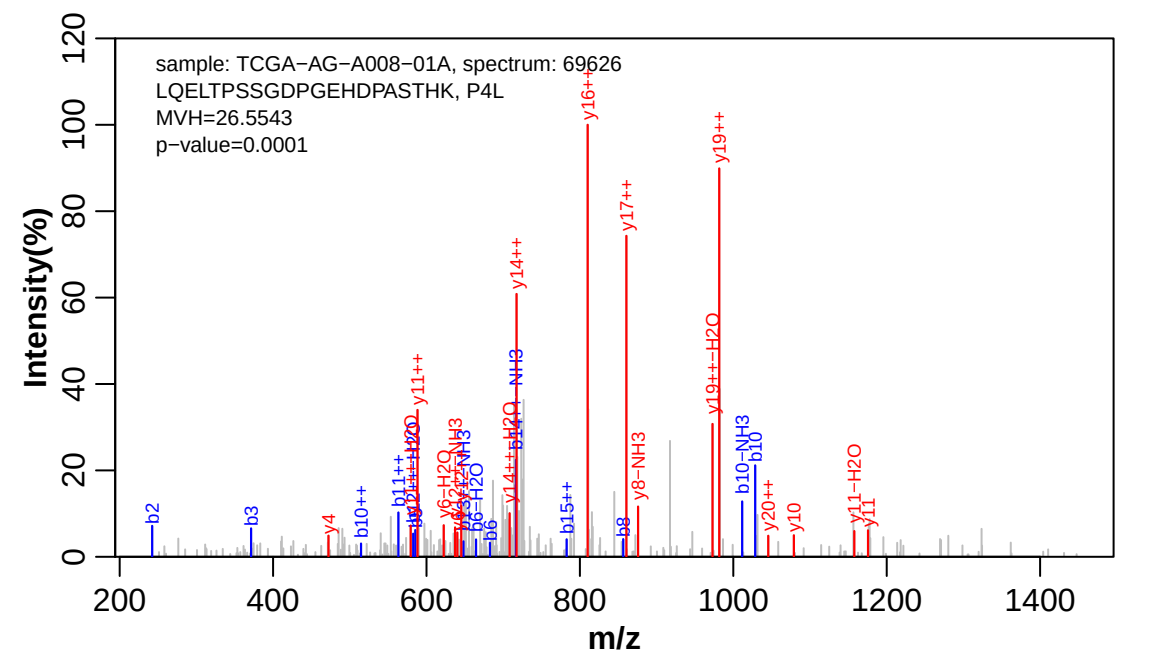

sample: TCGA−AG−A008−01A, spectrum: 21187
LLNLLADLVER, R4L
MVH=53.3980
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
b9−NH3
b9
b10

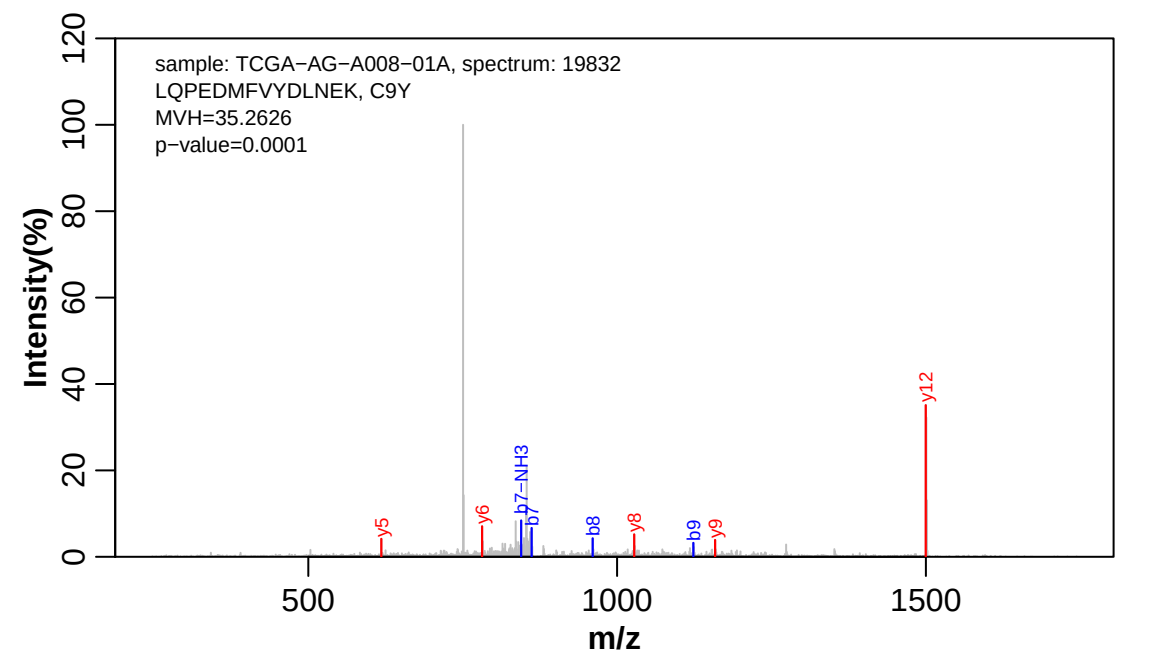

sample: TCGA−AG−A008−01A, spectrum: 105485
LLSDLLPPSTGTFQEAQSR, S5L
MVH=31.0554
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6−H2O
b6
y9−H2O
y12
y13

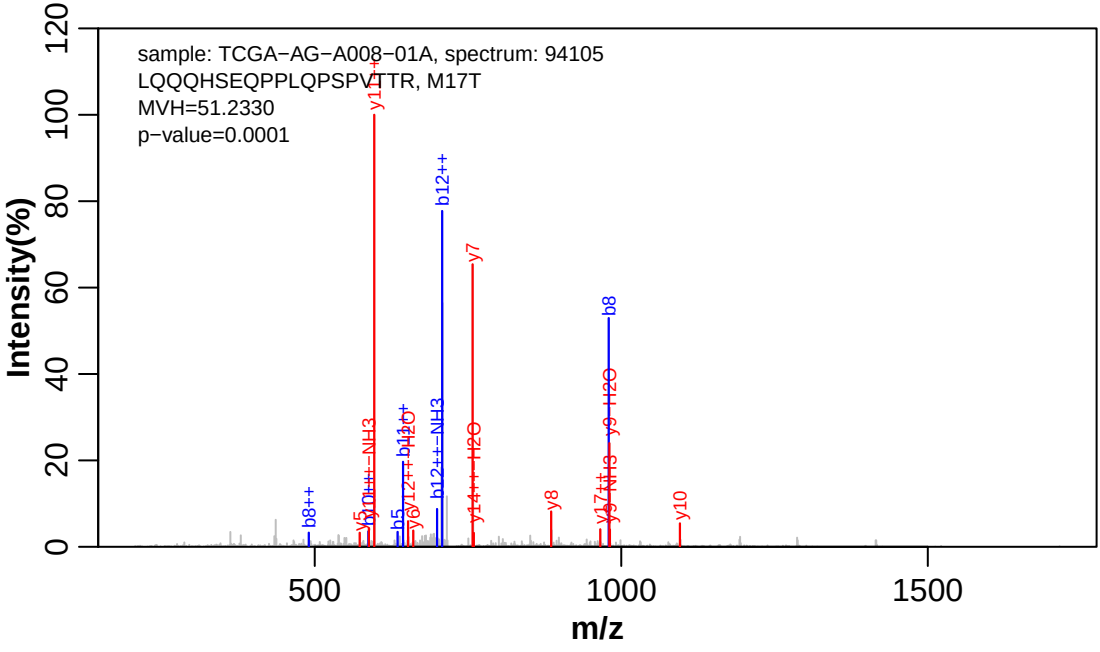

sample: TCGA−AG−A008−01A, spectrum: 34894
LLTQDEGPALVPGSR, G14S
MVH=44.0474
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
y8
y9
y10
y11
b11
b10
b9
b8−y9
b6−H2O
b6
b9−H2O
b11−NH3−H2O
b10−NH3−H2O

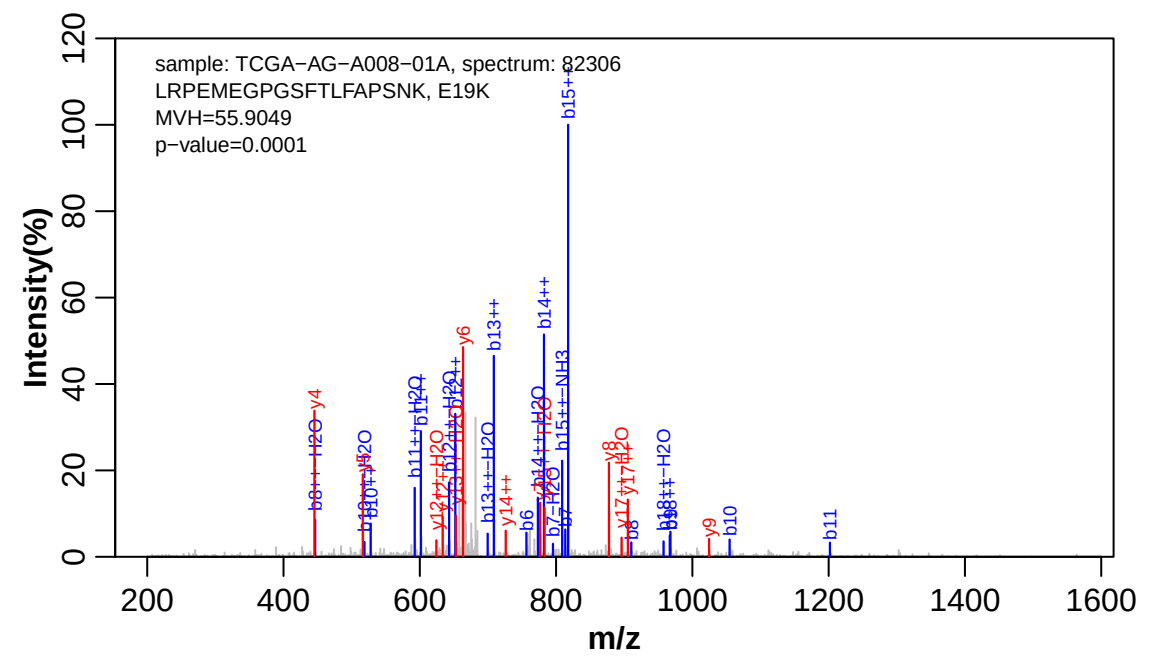

sample: TCGA−AG−A008−01A, spectrum: 77845
LPAEPLTR, E3A
MVH=33.6381
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b4
y4
y5
y6
y7

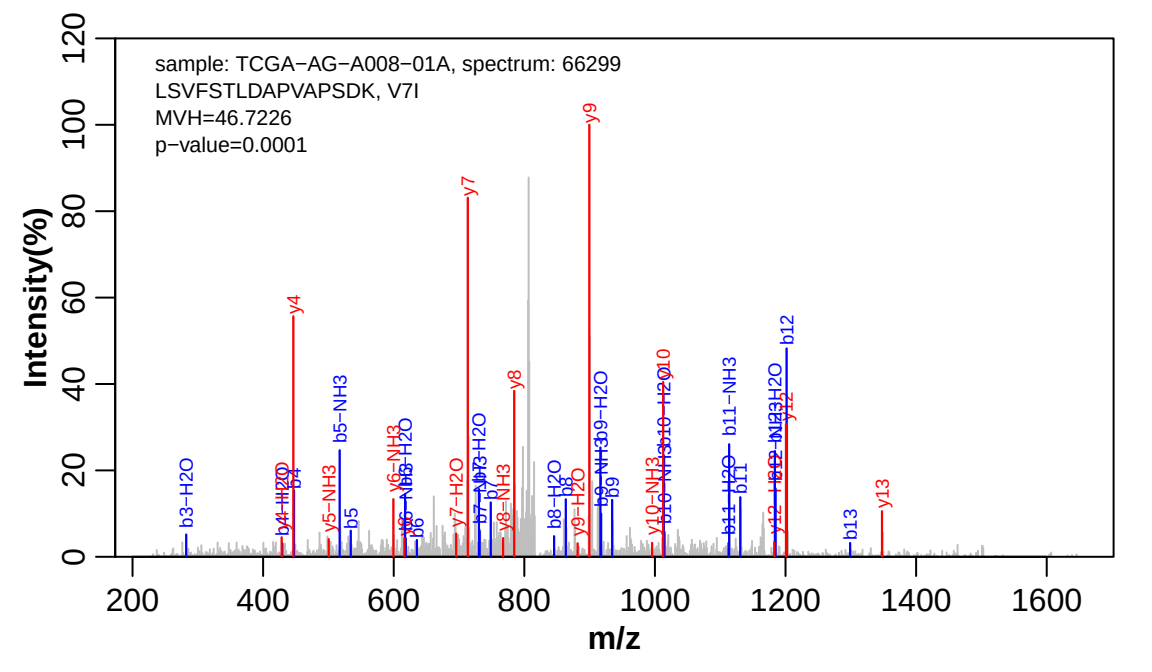

sample: TCGA−AG−A008−01A, spectrum: 108659
LPAPTHTPATAPVPAR, R6H
MVH=52.5061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b11++H
y5
y5++
y6++
y3
b12++
b11

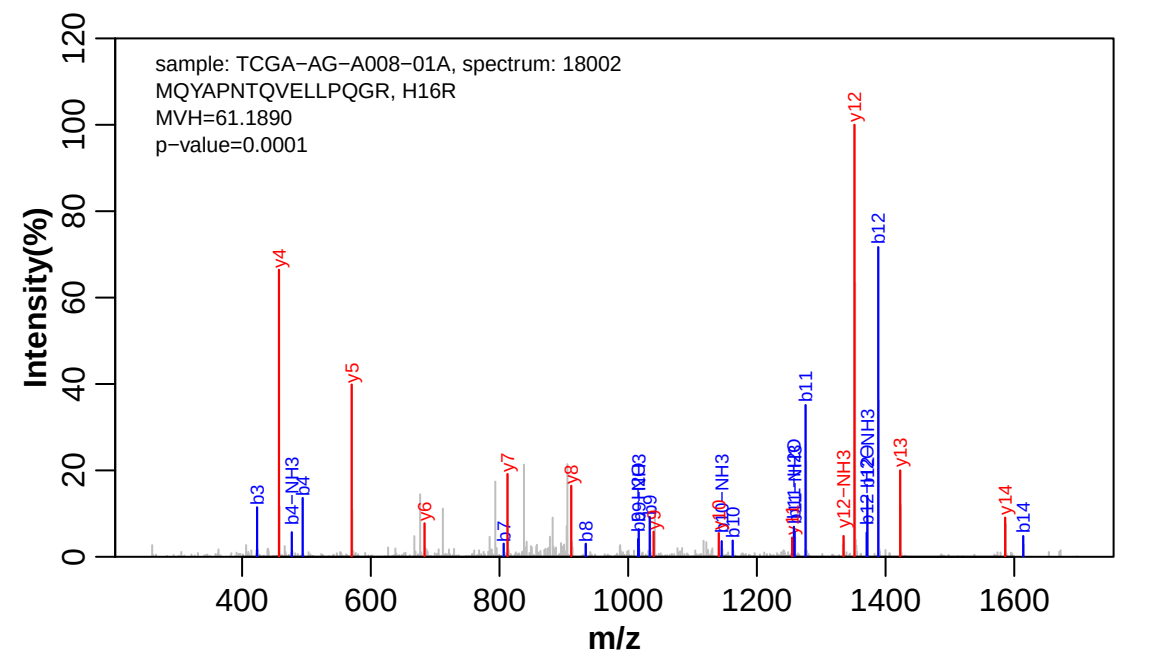

sample: TCGA−AG−A008−01A, spectrum: 69626
LQELTPSSGDPGEHDPASTHK, P4L
MVH=26.5543
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3
y4
b10++
b11++
y11++
y6−H2O
y14++−NH3
b6−H2O
b6
y14++−H2O
y14++
b15++
y16++
y8−NH3
b8
y17++
y19++−H2O
y19++
b10−NH3
b10
y20++
y10
y11−H2O
y11

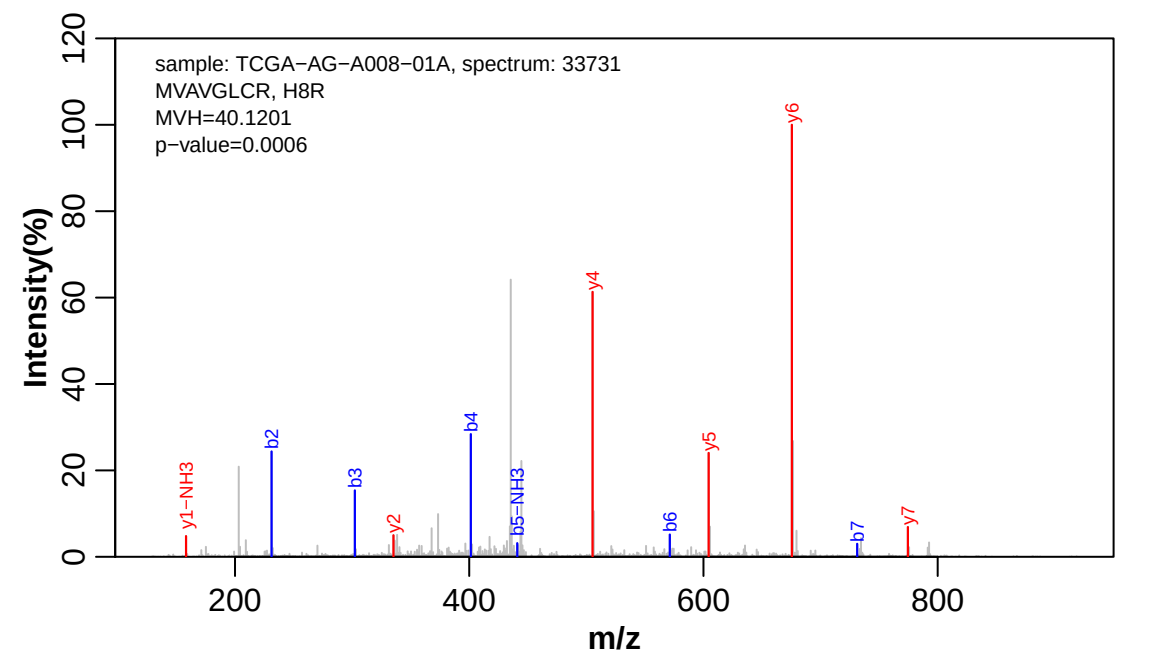

sample: TCGA−AG−A008−01A, spectrum: 19832
LQPEDMFVYDLNEK, C9Y
MVH=35.2626
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
y6
b7−NH3
b7
b8
y8
b9
y9
y12

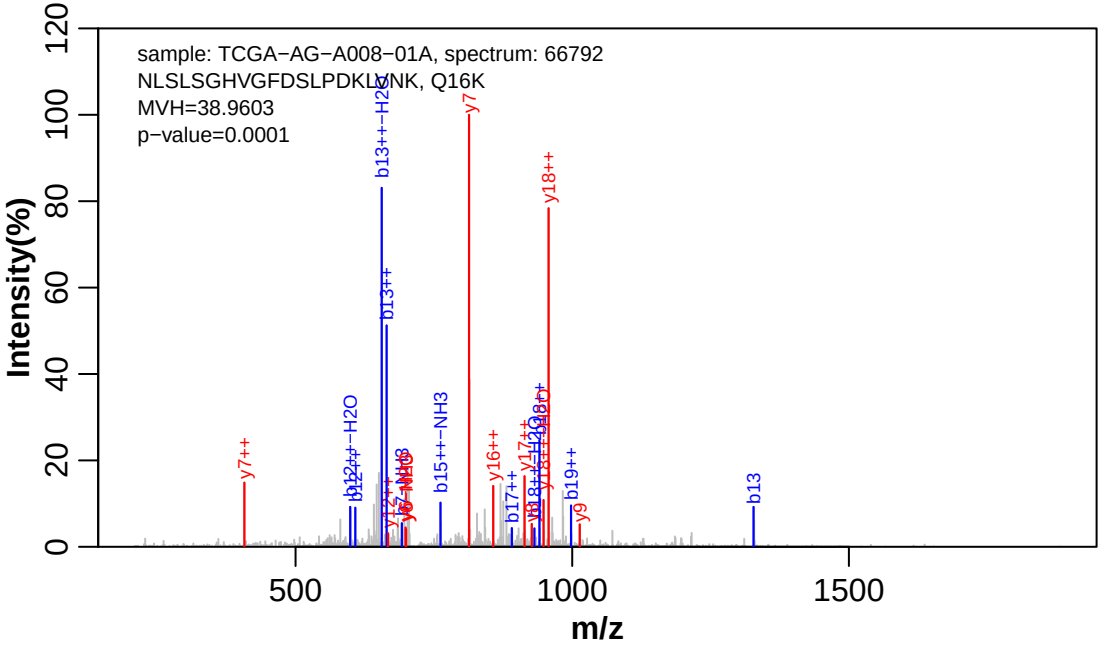

sample: TCGA−AG−A008−01A, spectrum: 94105
LQQQHSEQPPLQPSPVTTR, M17T
MVH=51.2330
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7
b8
y8
y10
b8++
y5
y10++−NH3
b5
y6
y12++
b11++
b12++−NH3
y14++ H2O
y17++
y9 NH3
y9 H2O

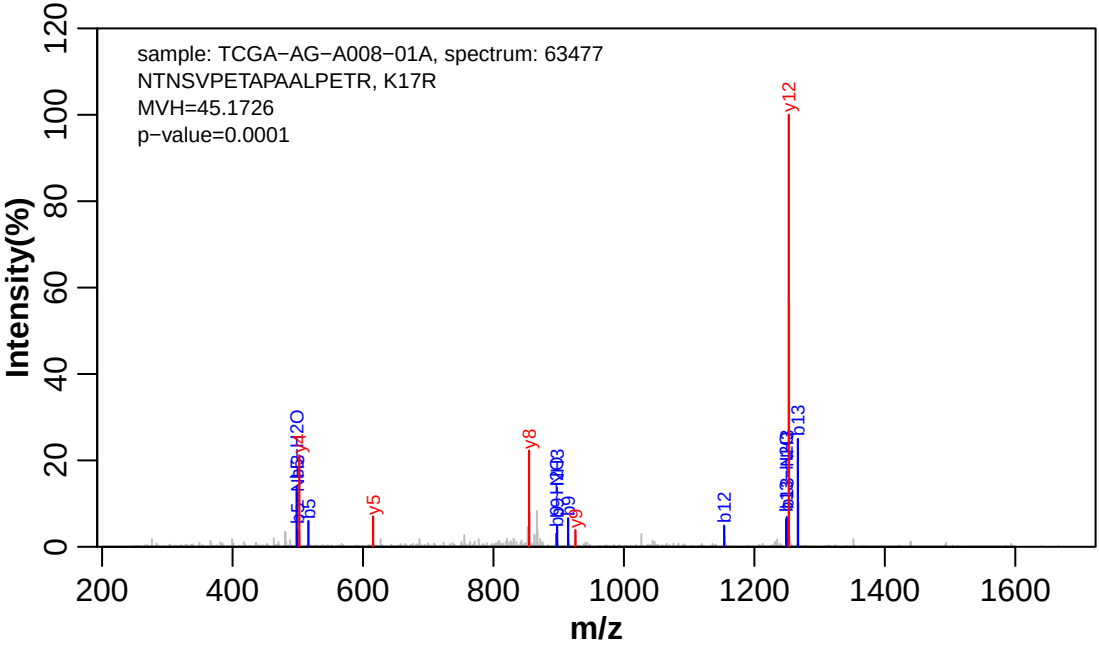

sample: TCGA−AG−A008−01A, spectrum: 82306
LRPEMEGPGSFTLFAPSNK, E19K
MVH=55.9049
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b15++
b14++
b13++
y6
y4
b8++−H2O
b11++−H2O
b13++−H2O
y14++
b6
b15++−NH3
y8
y17++−H2O
b8++−H2O
y9
b10
b11

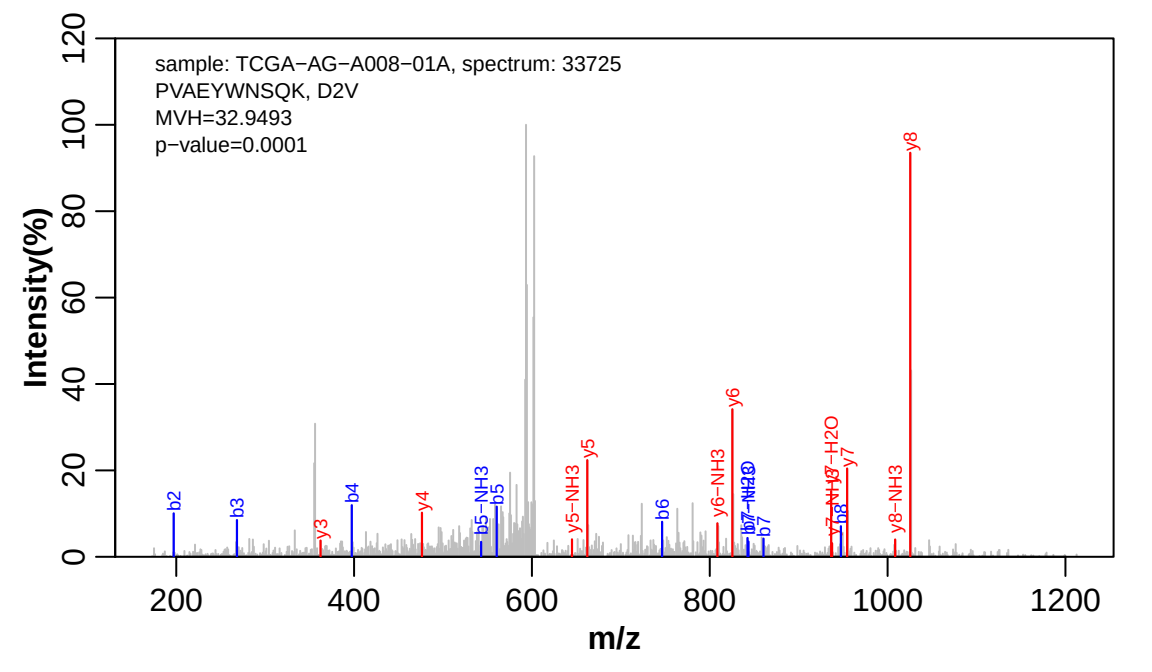

sample: TCGA−AG−A008−01A, spectrum: 66299
LSVFSTLDAPVAPSDK, V7I
MVH=46.7226
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
b12
y13
b3−H2O
b5−NH3
y5−NH3
b5
y7−H2O
y8−NH3
b8−H2O
y9−H2O
b9
b11−NH3
b11−H2O
b11
b13

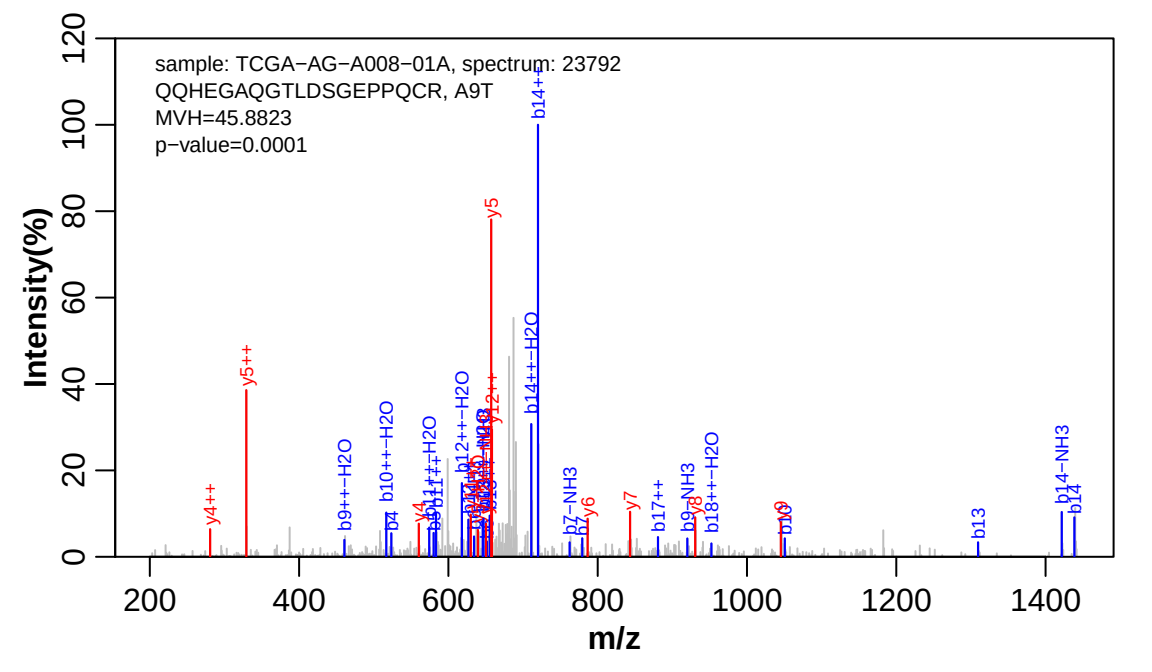

sample: TCGA−AG−A008−01A, spectrum: 18002
MQYAPNTQVELLPQGR, H16R
MVH=61.1890
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y12
b12
y4
y5
b11
y13
y14
b14
b3
b4−NH3
b4
y6
y7
y8
b7
b8
y12−NH3
b12−NH3
y10−NH3
b10

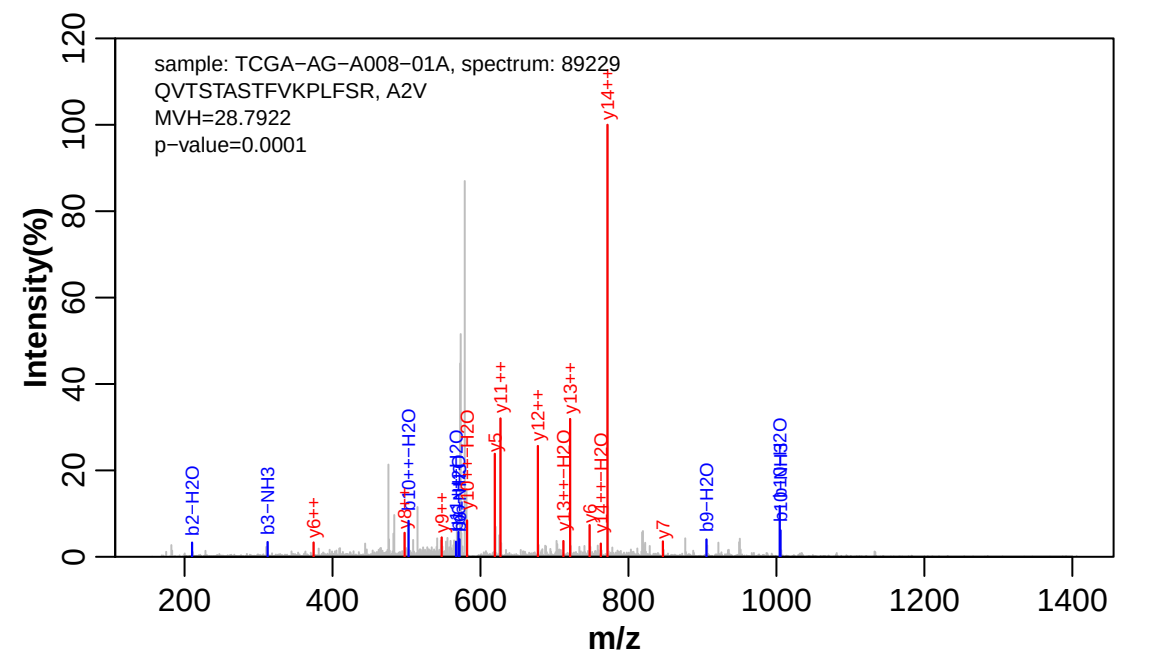

sample: TCGA−AG−A008−01A, spectrum: 33731
MVAVGLCR, H8R
MVH=40.1201
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
b5−NH3
y4
b6
y5
y6
b7
y7

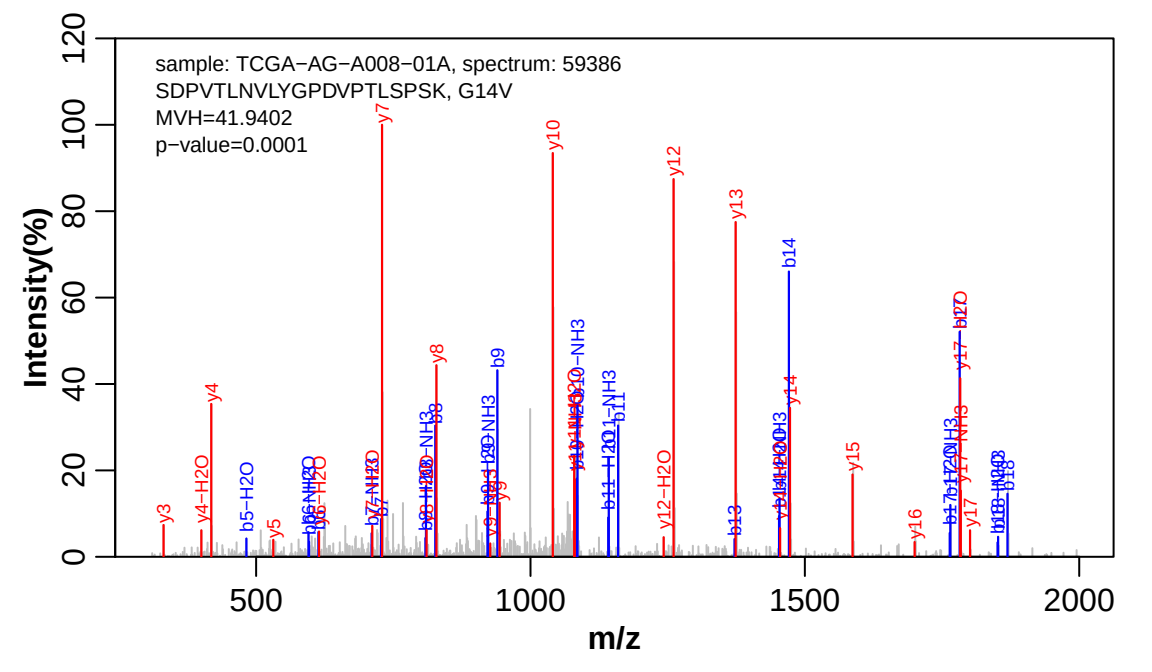

sample: TCGA−AG−A008−01A, spectrum: 66792
NLSLSGHVGFDSLPDKLGNK, Q16K
MVH=38.9603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7++
b12++−H2O
b13++−H2O
b13++
y7
y18++
b15++−NH3
y16++
b17++
b19++
y9
b13

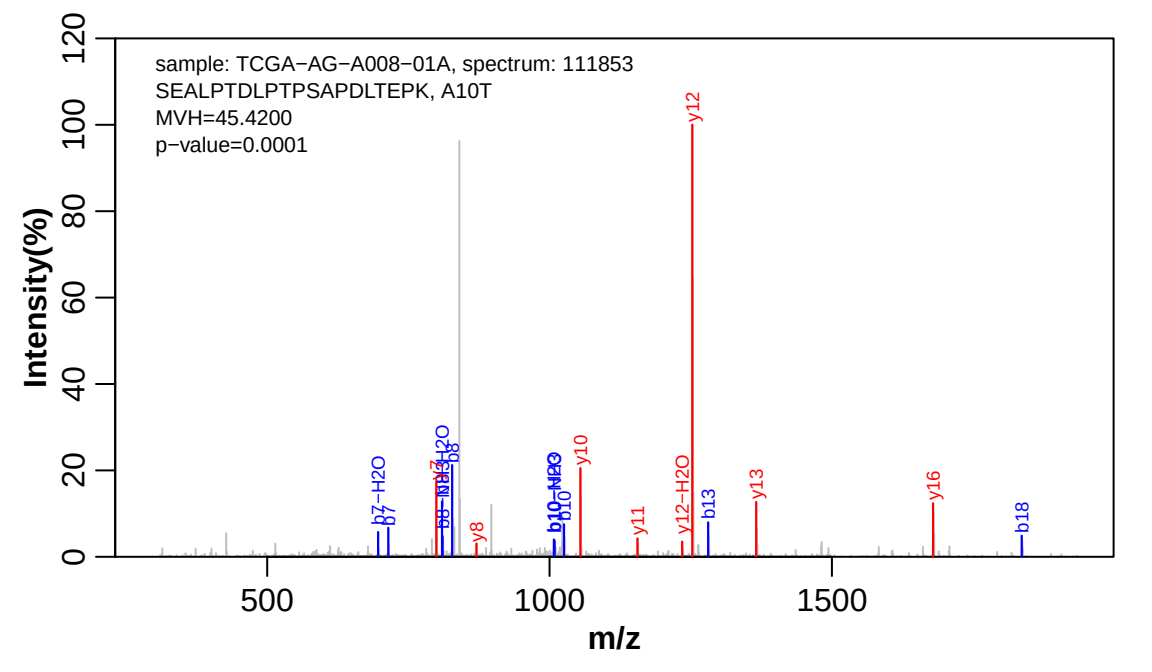

sample: TCGA−AG−A008−01A, spectrum: 63477
NTNSVPETAPAALPETR, K17R
MVH=45.1726
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
b12
b13
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

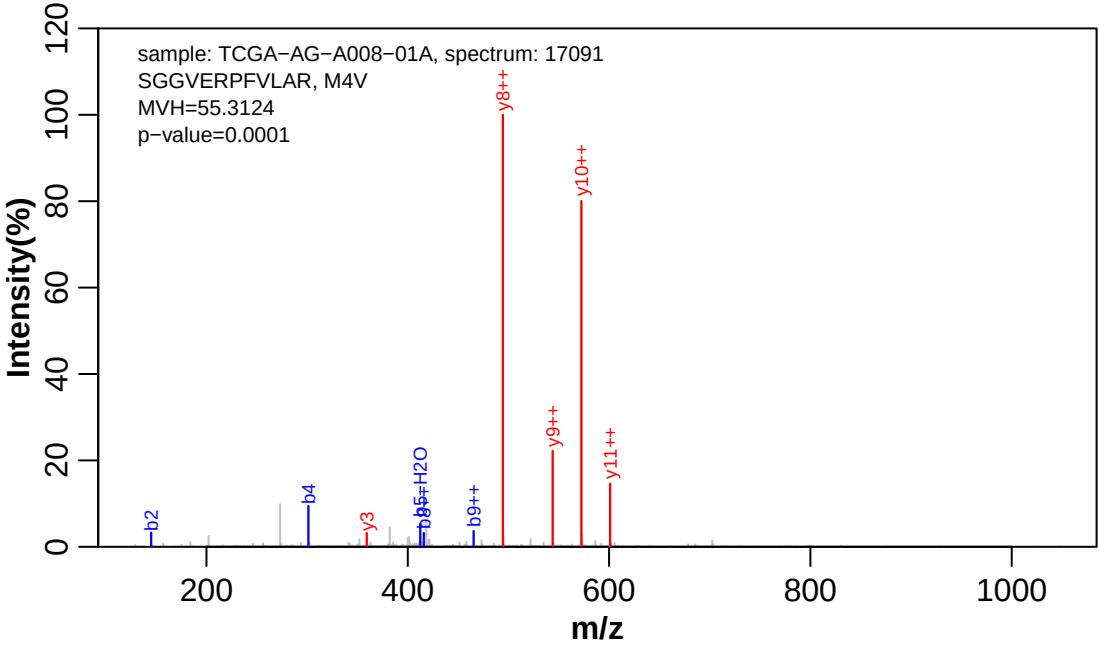

sample: TCGA−AG−A008−01A, spectrum: 33725
PVAEYWNSQK, D2V
MVH=32.9493
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5−NH3
b5
y5−NH3
y5
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7−NH3
y7−H2O
b8
y7
y8−NH3
y8

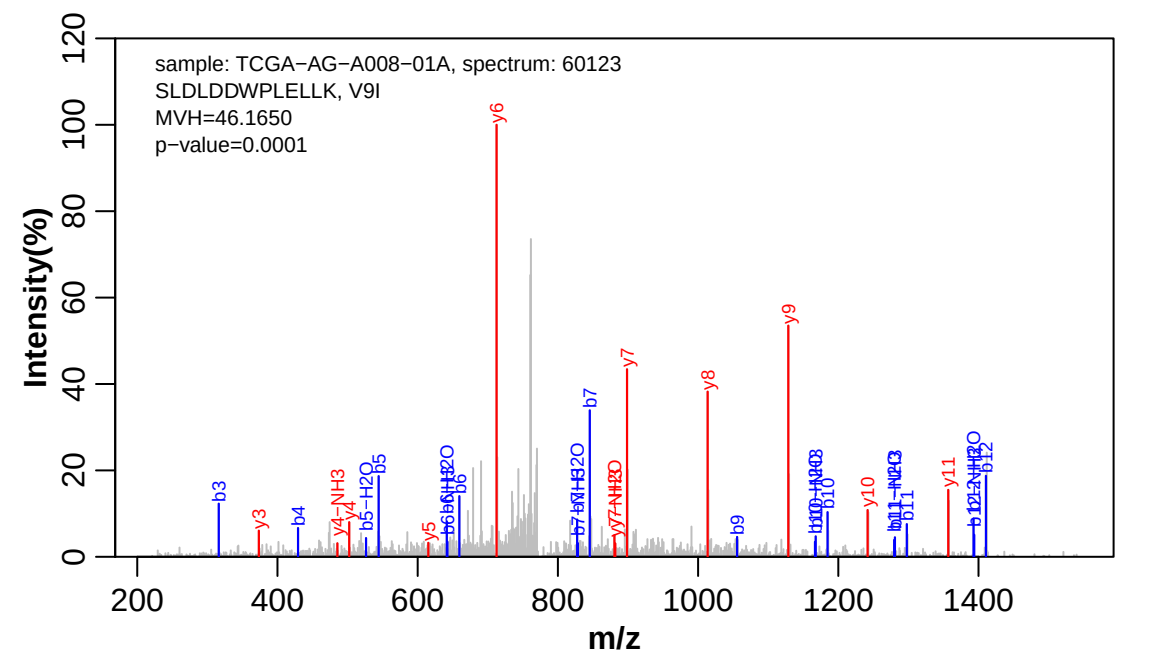

sample: TCGA−AG−A008−01A, spectrum: 23792
QQHEGAQGTLDSGEPPQCR, A9T
MVH=45.8823
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4++
y5++
b9++−H2O
b10++−H2O
b4
y4
b11++
b11++−H2O
b12++−H2O
y5
y12++
b14++
b14++−H2O
b7−NH3
b7
y6
y7
b17++
b9−NH3
y8
b18++−H2O
b10
b13
b14−NH3
b14

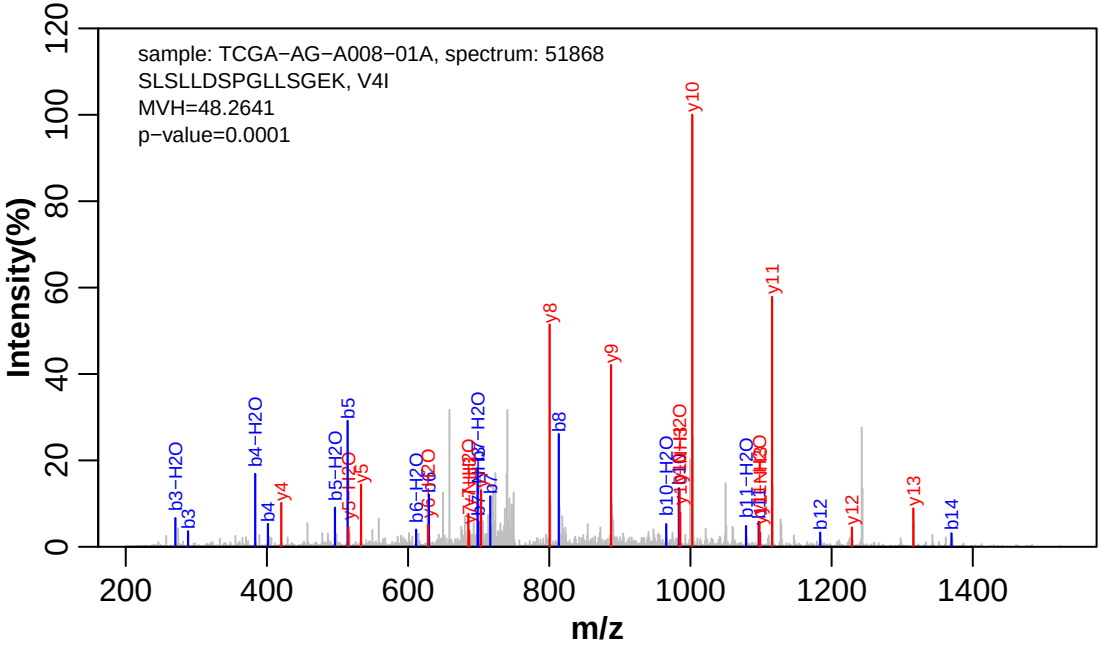

sample: TCGA−AG−A008−01A, spectrum: 89229
QVTSTASTFVKPLFSR, A2V
MVH=28.7922
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b3−NH3
y6++
y10++−H2O
y5
y11++
y12++
y13++
y13++−H2O
y14++−H2O
y7
b9−H2O
y14++

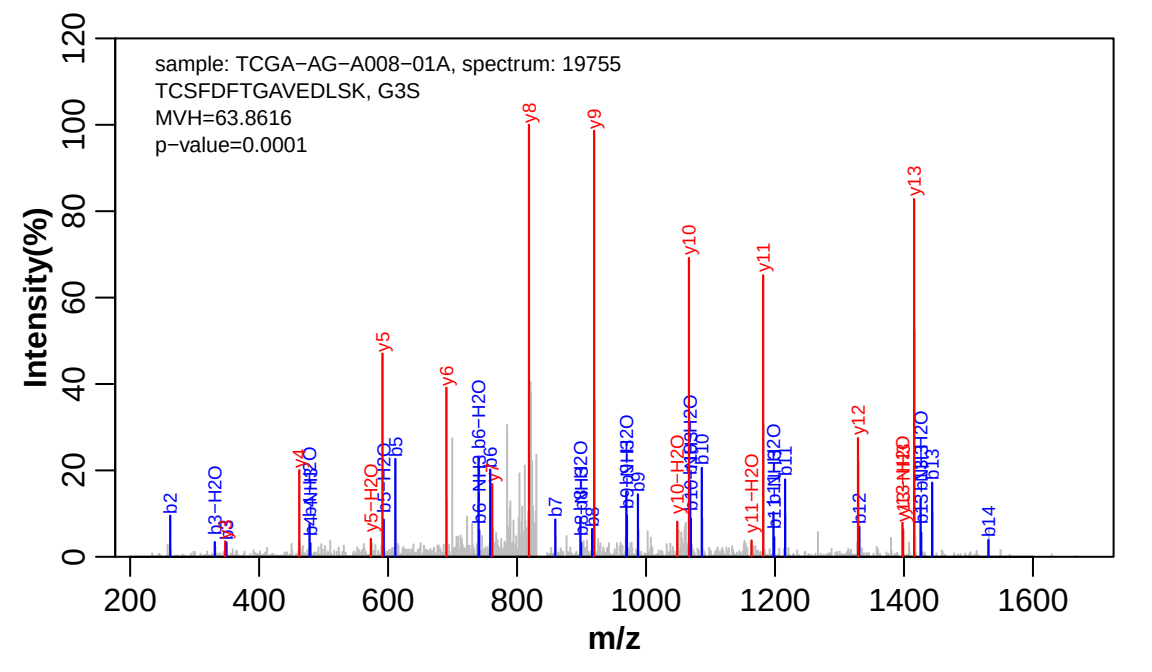

sample: TCGA−AG−A008−01A, spectrum: 59386
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=41.9402
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y4−H2O
b5−H2O
y5
y7
y8
y10
y12
y13
b14
y14
y15
y16
y17
y12−H2O
b13
b11−NH3
b9
y10−NH3
y12−NH3
y17−H2O
y17−NH3
b18
b18−NH3

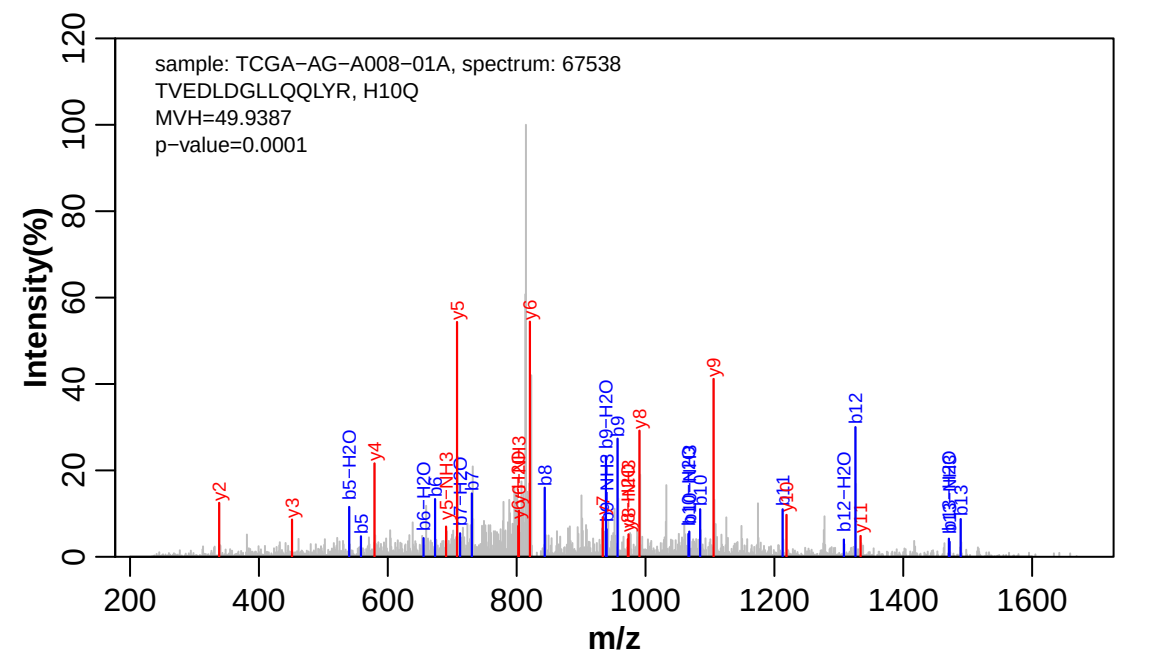

sample: TCGA−AG−A008−01A, spectrum: 111853
SEALPTDLPTPSAPDLTEPK, A10T
MVH=45.4200
p−value=0.0001
Intensity(%)
m/z
y12
y10
y11
y12−H2O
y13
y16
y8
b13
b18
b7−H2O
b7
b8−NH3
b8−H2O
b8
b10−NH3
b10−H2O
b10

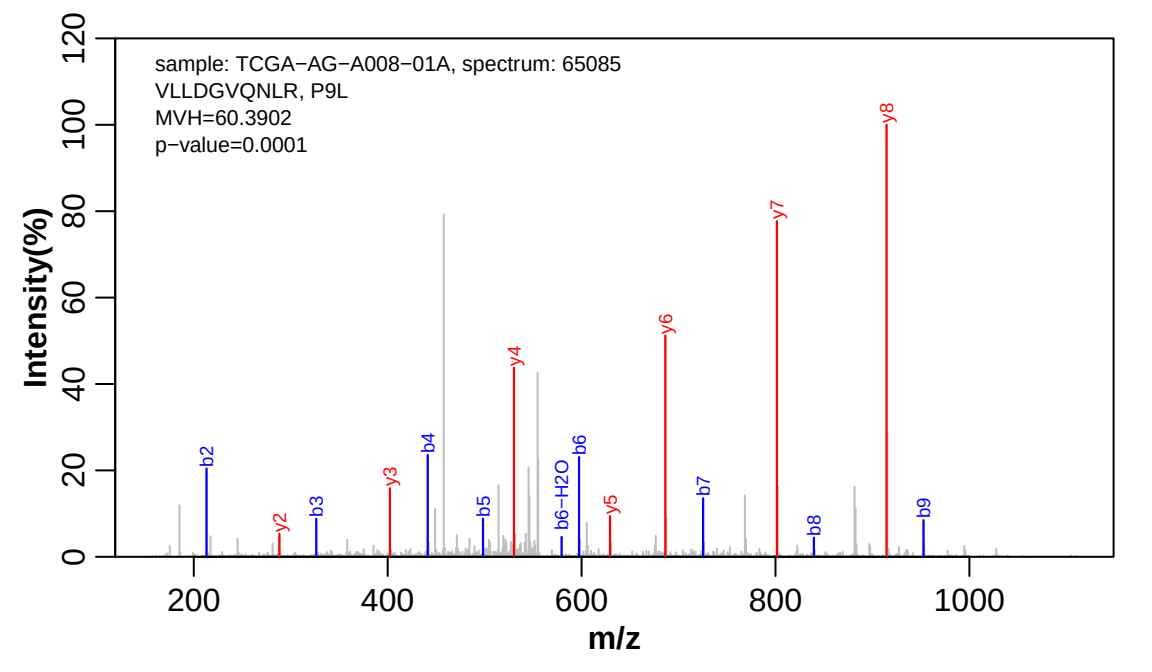

sample: TCGA−AG−A008−01A, spectrum: 17091
SGGVERPFVLAR, M4V
MVH=55.3124
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b4
y3
b5−H2O
b9++
y8++
y9++
y10++
y11++

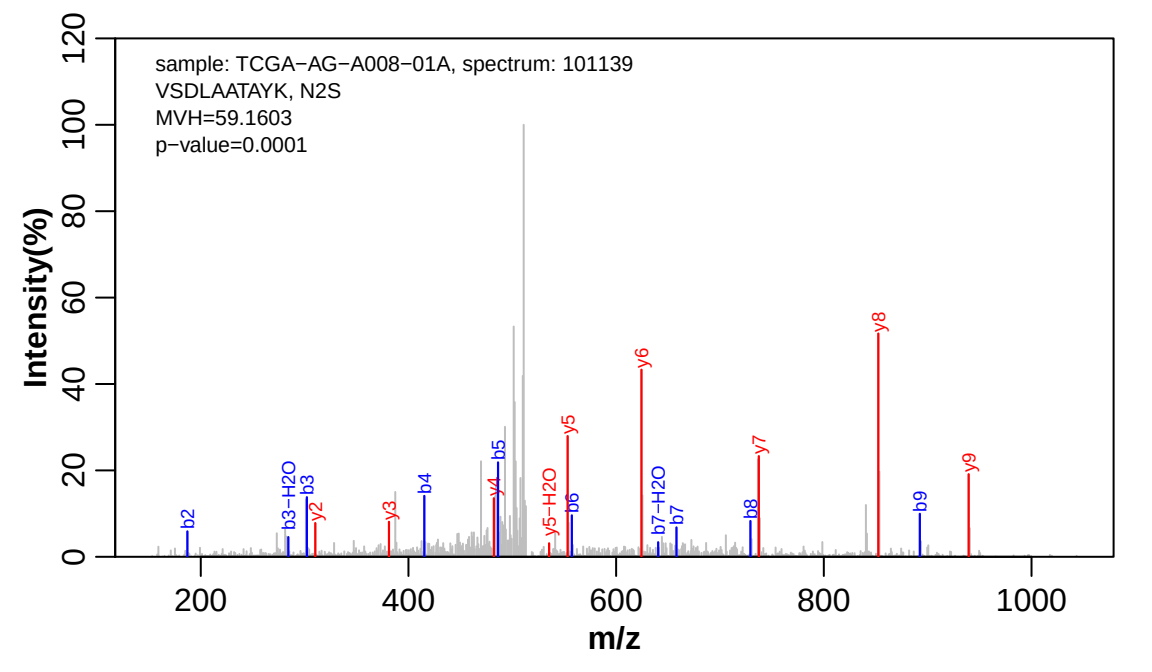

sample: TCGA−AG−A008−01A, spectrum: 60123
SLDLDDWPLELLK, V9I
MVH=46.1650
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y9
y7
y8
y11
y10
y5
y4
y3
b3
b4
b5
b7
b9
b10
b11
b12

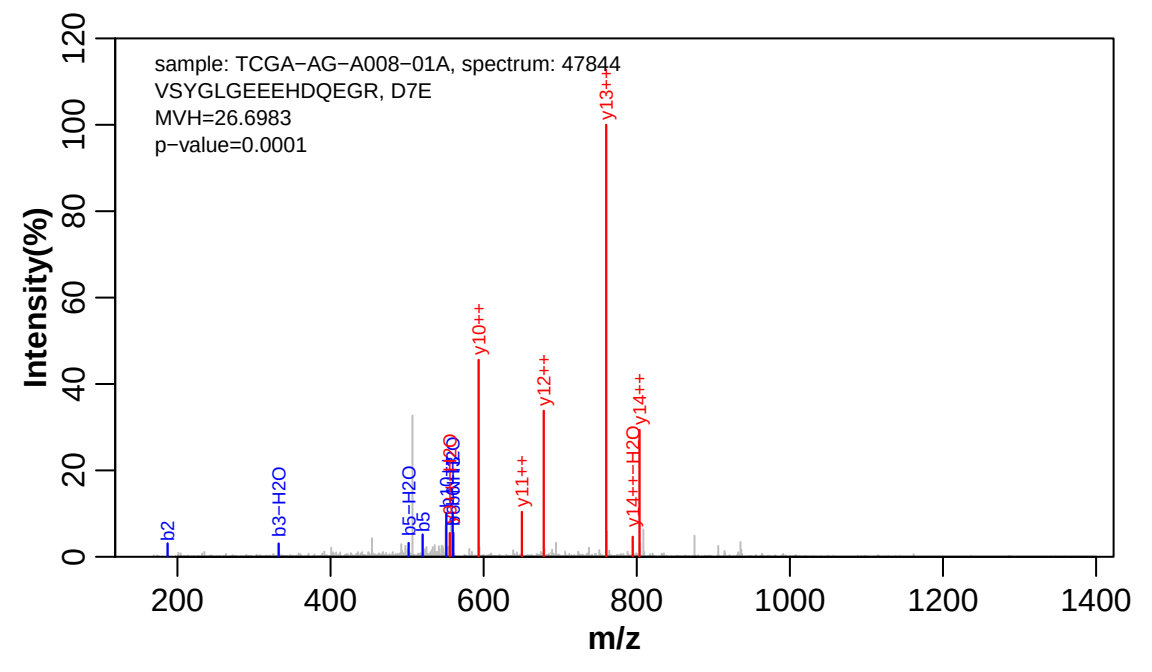

sample: TCGA−AG−A008−01A, spectrum: 51868
SLSLLDSPGLLSGEK, V4I
MVH=48.2641
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y8
y9
y11
b8
y13
b14
y12
b12
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
b10−H2O
y11−H2O
y11
b11−H2O

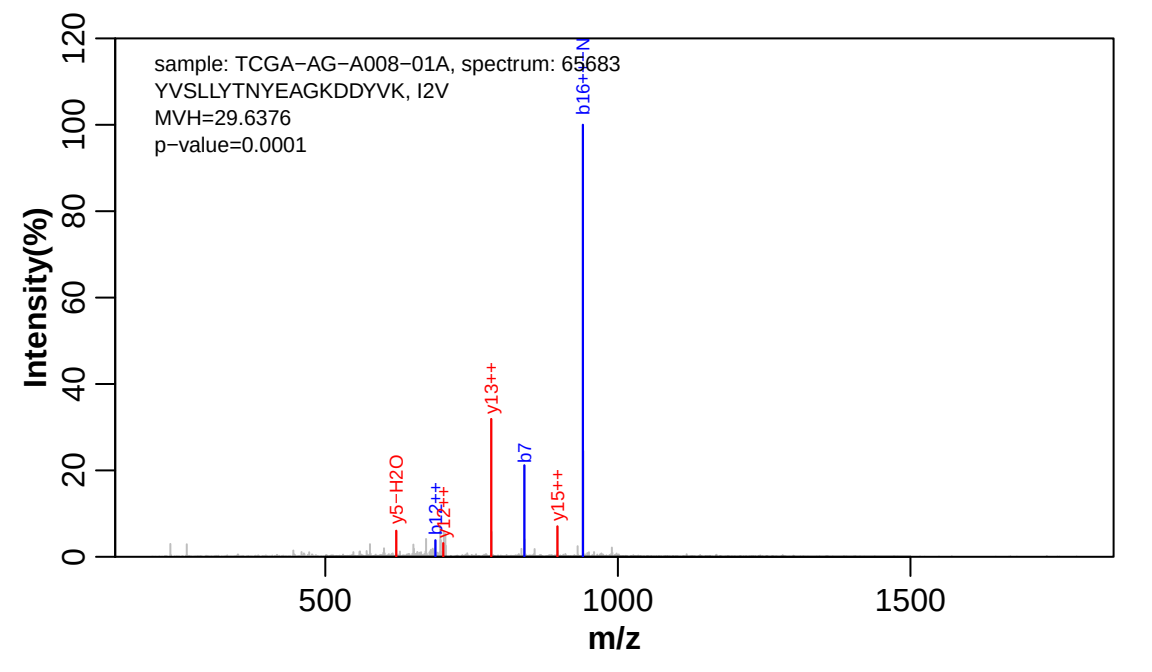

sample: TCGA−AG−A008−01A, spectrum: 19755
TCSFDFTGAVEDLSK, G3S
MVH=63.8616
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y9
y13
y10
y11
y5
y6
y12
b2
b14

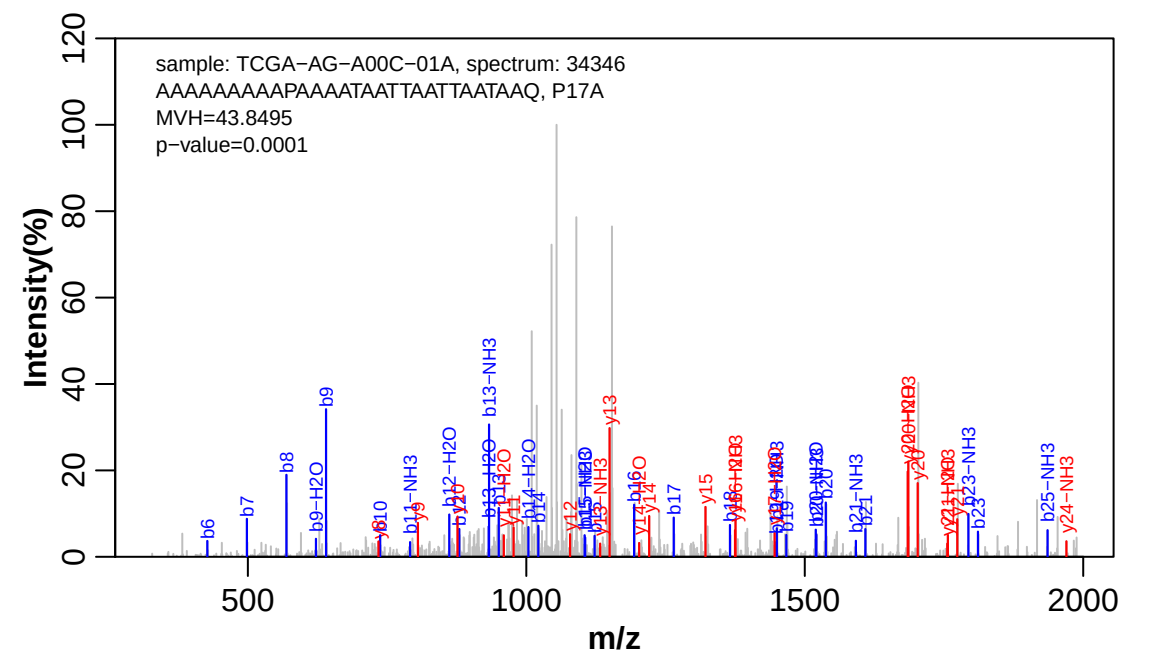

sample: TCGA−AG−A008−01A, spectrum: 67538
TVEDLDGLLQQLYR, H10Q
MVH=49.9387
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b5−H2O
b5
y4
b6−H2O
b6
y5−NH3
y5
b7−H2O
b7
y5
y6
b8
y6−H2O
y6−NH3
b9−H2O
b9
y7−NH3
y8−H2O
y8
y9
b10−H2O
b10
y10
y11
b12−H2O
b12
b13−H2O
b13

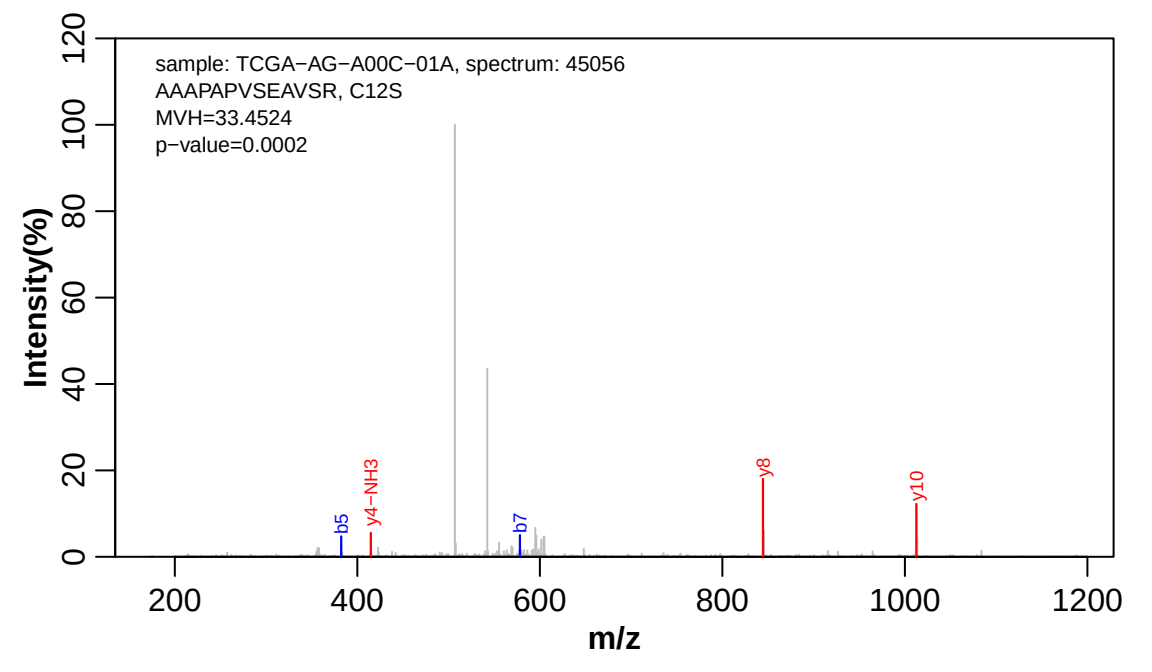

sample: TCGA−AG−A008−01A, spectrum: 65085
VLLDGVQNLR, P9L
MVH=60.3902
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7
y7
b8
y8
b9

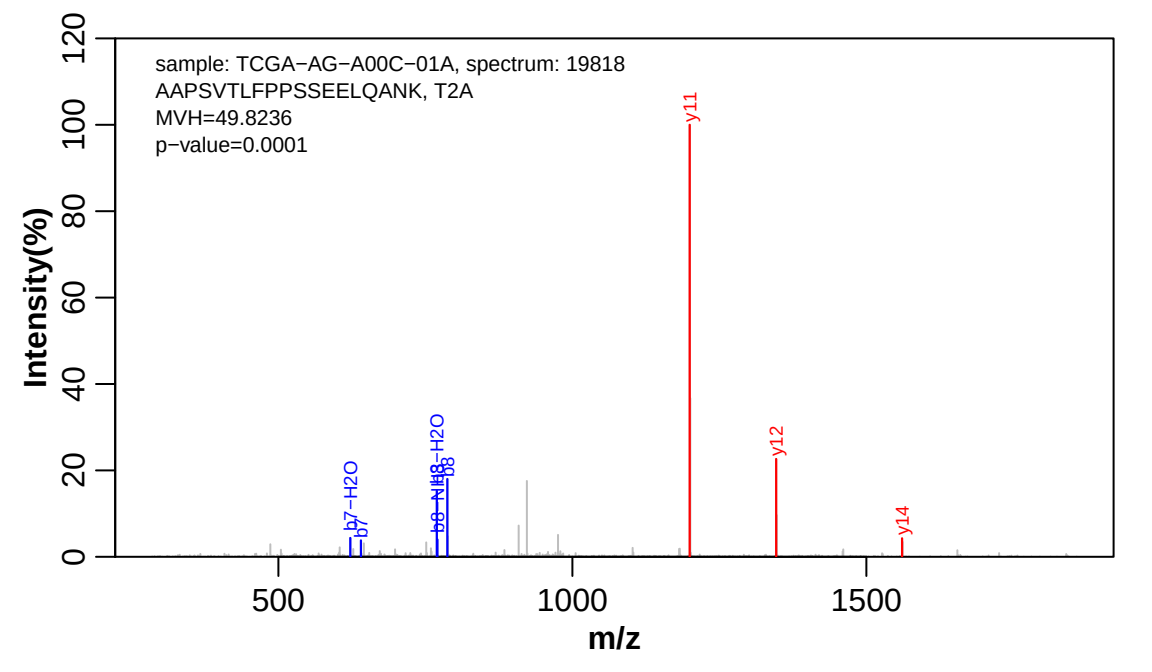

sample: TCGA−AG−A008−01A, spectrum: 101139
VSDLAATAYK, N2S
MVH=59.1603
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5
y4
y5−H2O
y5
b6
y6
b7−H2O
b7
b8
y7
y8
b9
y9

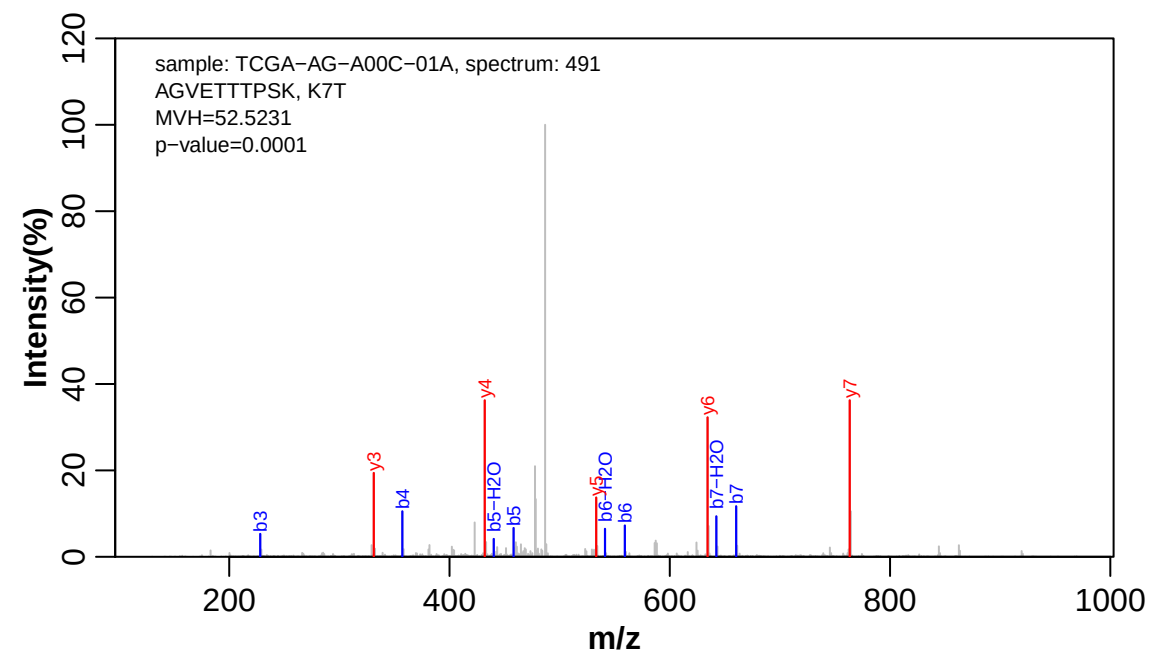

sample: TCGA−AG−A008−01A, spectrum: 47844
VSYGLGEEEHDQEGR, D7E
MVH=26.6983
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b5−H2O
b5
y10++
y11++
y12++
y13++
y14++
y14++−H2O

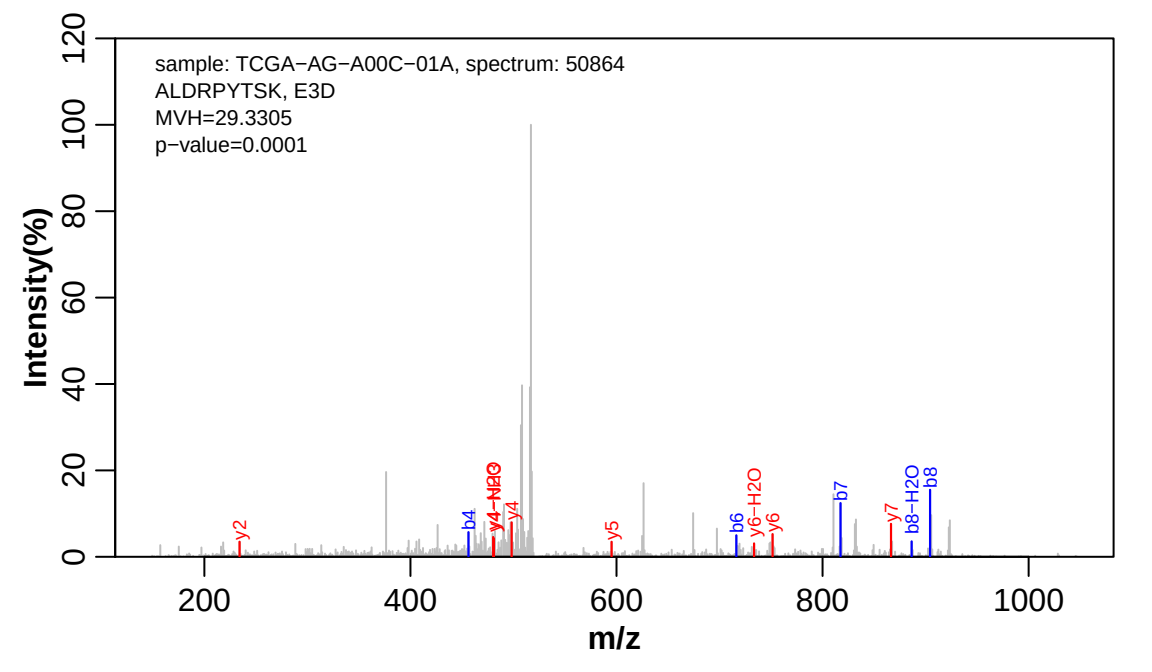

sample: TCGA−AG−A008−01A, spectrum: 65683
YVSLLYTNYEAGKDDYVK, I2V
MVH=29.6376
p−value=0.0001
b16+−N
y13++
b7
y15++
y5−H2O
b12++
y12++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

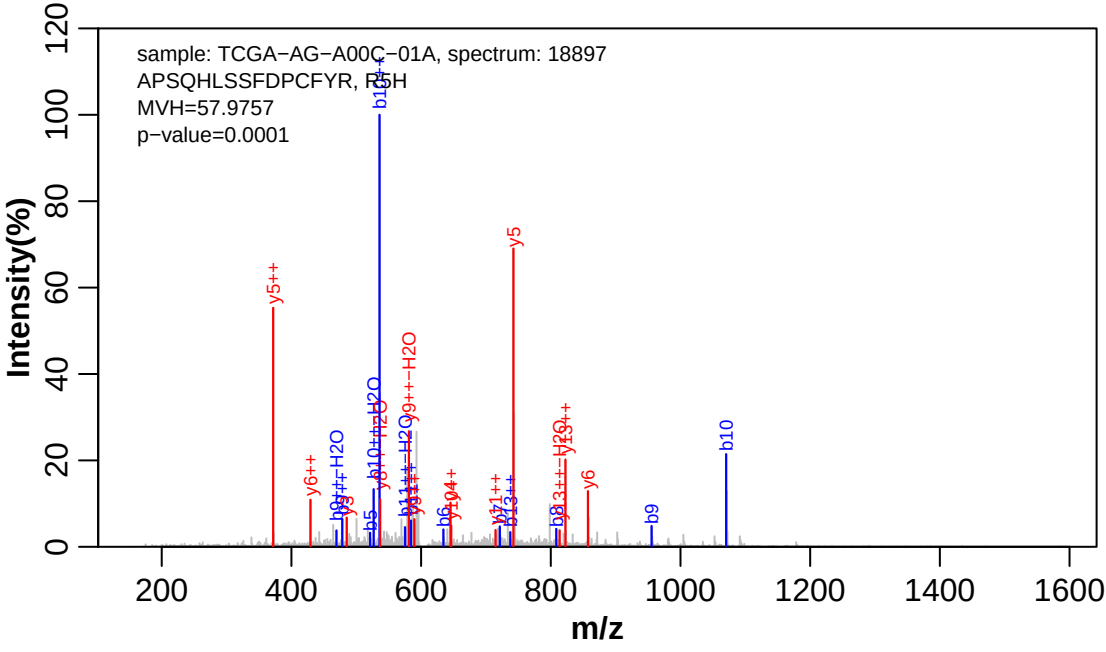

sample: TCGA−AG−A00C−01A, spectrum: 34346
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=43.8495
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b6
b7
b8
b9−H2O
b9
b10
b11−NH3
b12−H2O
b13−NH3
b14−H2O
y13
b16
y15
b17
b21−NH3
b23−NH3
b25−NH3
y24−NH3

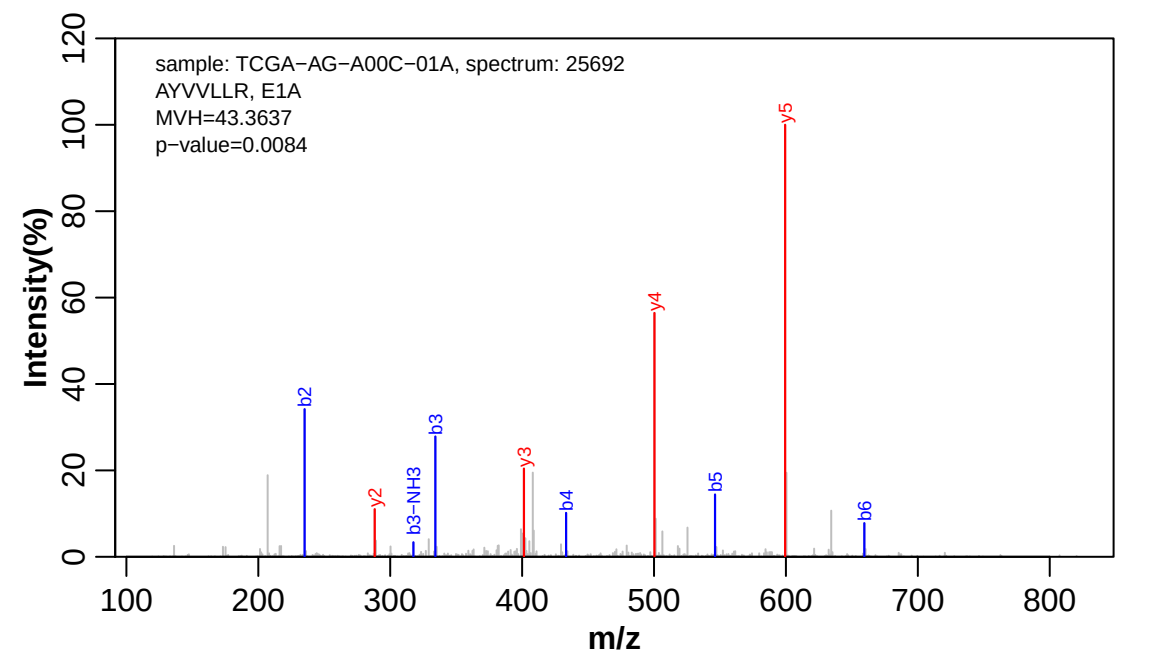

sample: TCGA−AG−A00C−01A, spectrum: 45056
AAAPAPVSEAVSR, C12S
MVH=33.4524
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y4−NH3
b7
y8
y10

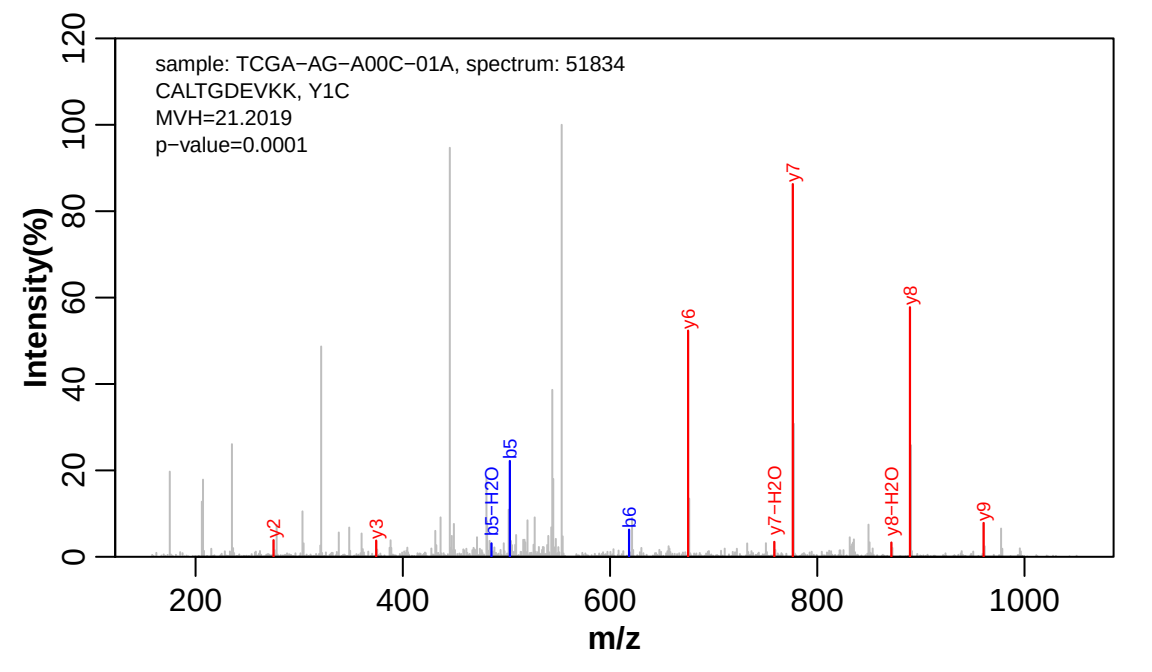

sample: TCGA−AG−A00C−01A, spectrum: 19818
AAPSVTLFPPSSEELQANK, T2A
MVH=49.8236
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

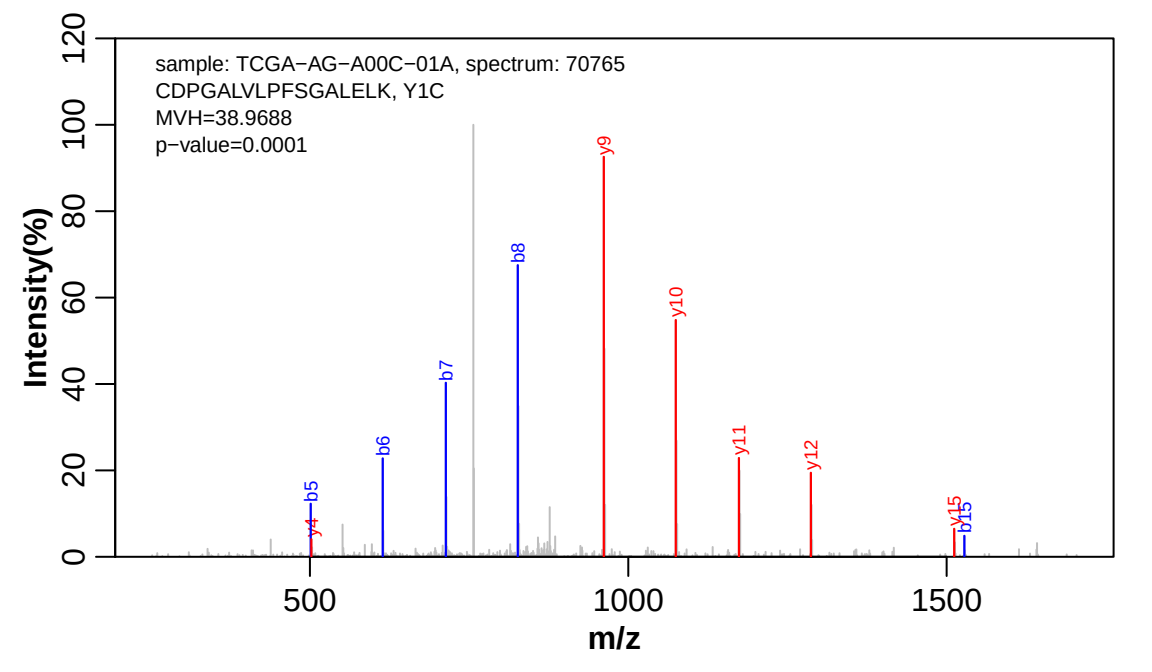

sample: TCGA−AG−A00C−01A, spectrum: 491
AGVETTTPSK, K7T
MVH=52.5231
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

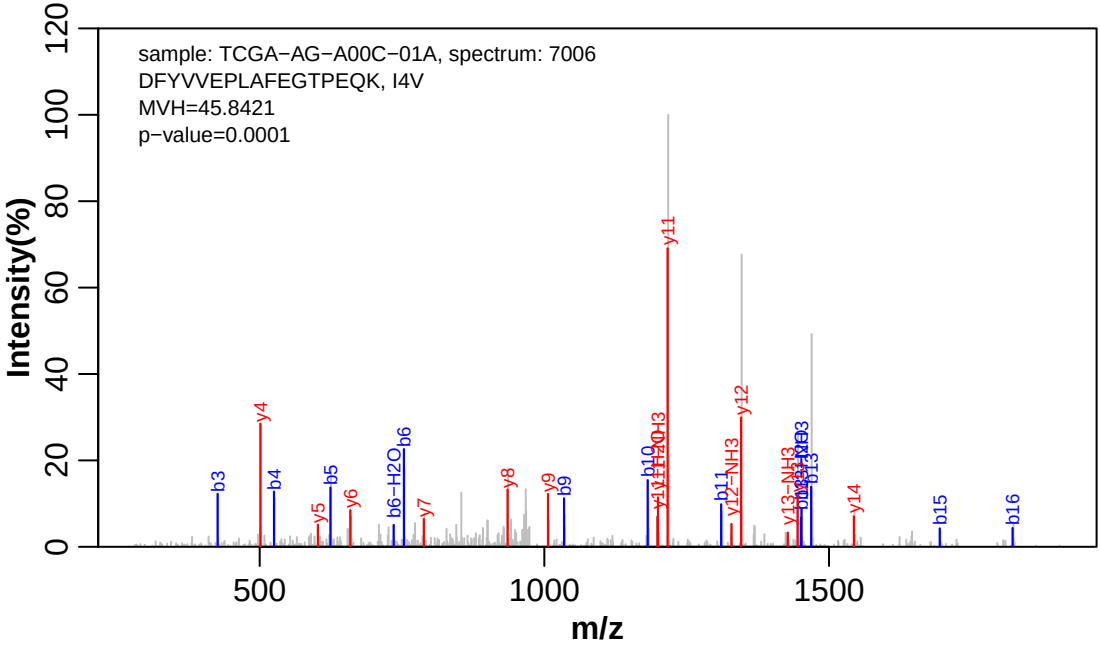

sample: TCGA−AG−A00C−01A, spectrum: 50864
ALDRPYTSK, E3D
MVH=29.3305
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
b4
y4−NH3
y4−H2O
y4
y5
b6
y6−H2O
y6
b7
y7
b8−H2O
b8

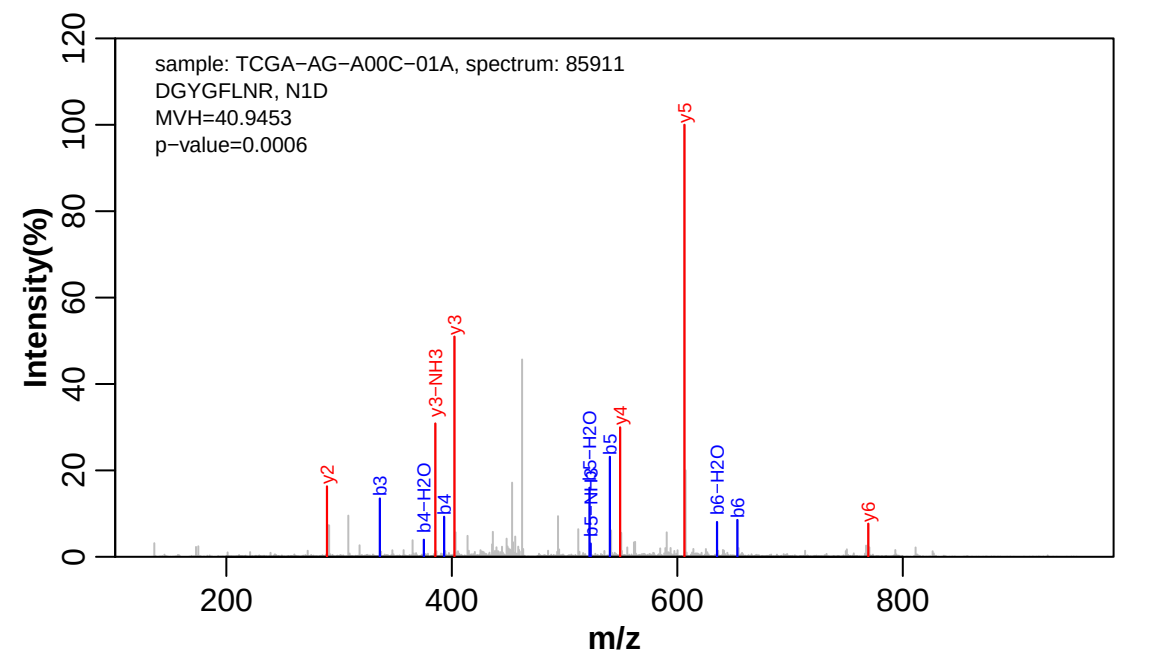

sample: TCGA−AG−A00C−01A, spectrum: 18897
APSQHLSSFDPCFYR, RSH
MVH=57.9757
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b10++
y5++
y5
y6++
b10++−H2O
y9++−H2O
b10
y6
b9

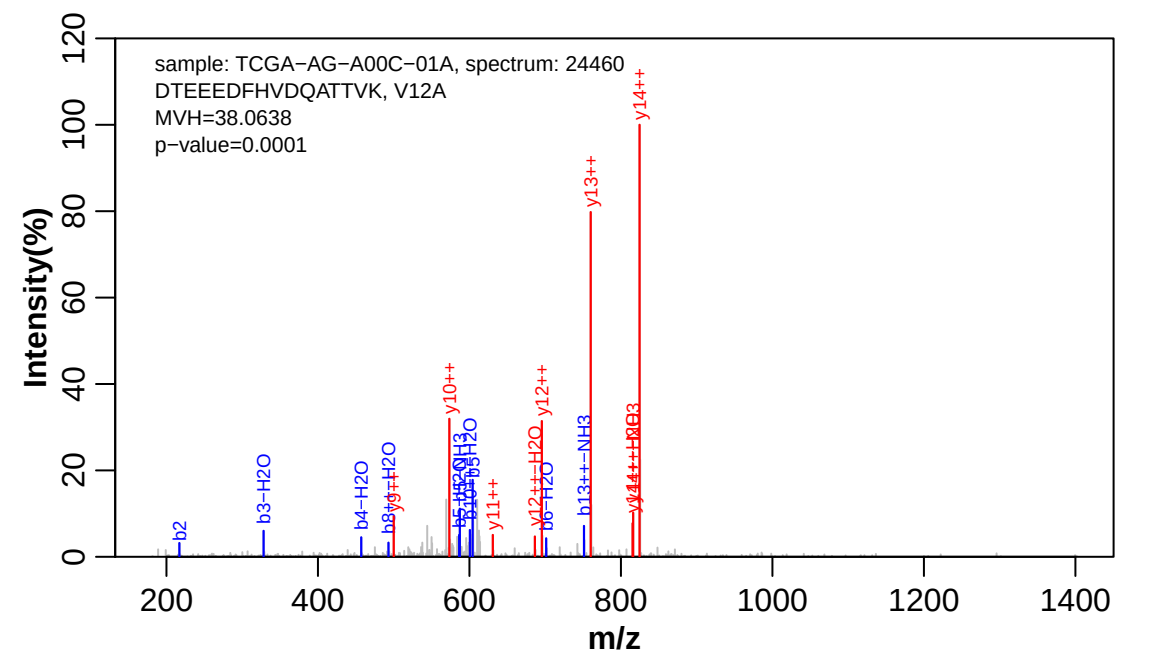

sample: TCGA−AG−A00C−01A, spectrum: 25692
AYVVLLR, E1A
MVH=43.3637
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
y2
b3−NH3
b3
y3
b4
y4
b5
y5
b6

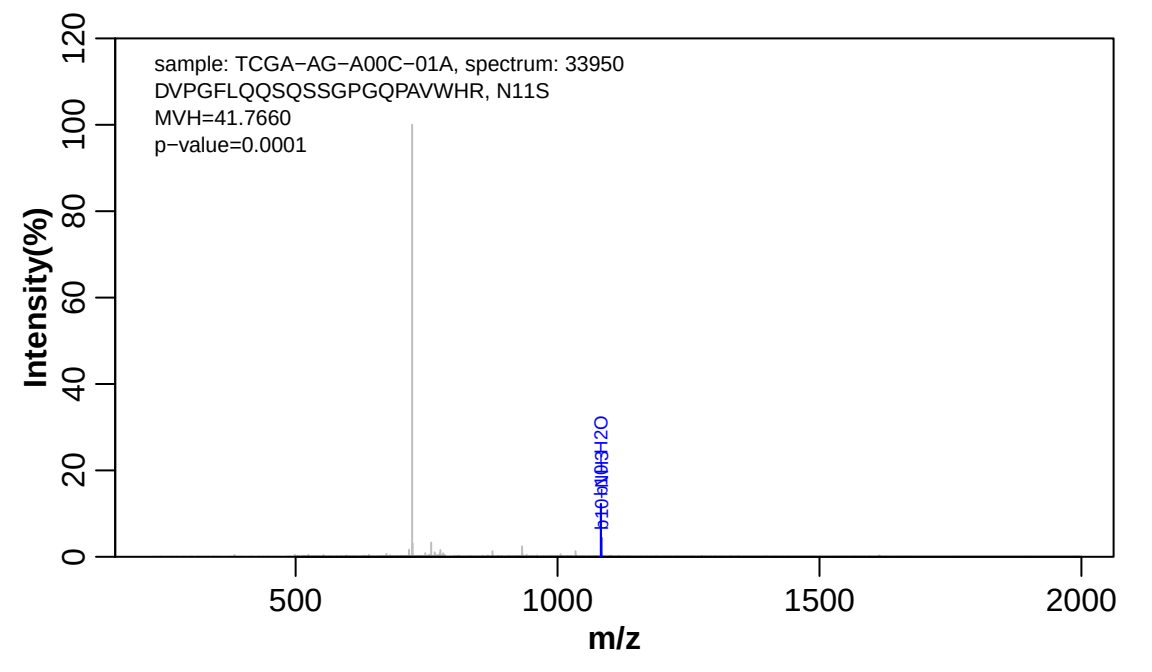

sample: TCGA−AG−A00C−01A, spectrum: 51834
CALTGDEVKK, Y1C
MVH=21.2019
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
y3
b5−H2O
b5
b6
y6
y7−H2O
y7
y8−H2O
y8
y9

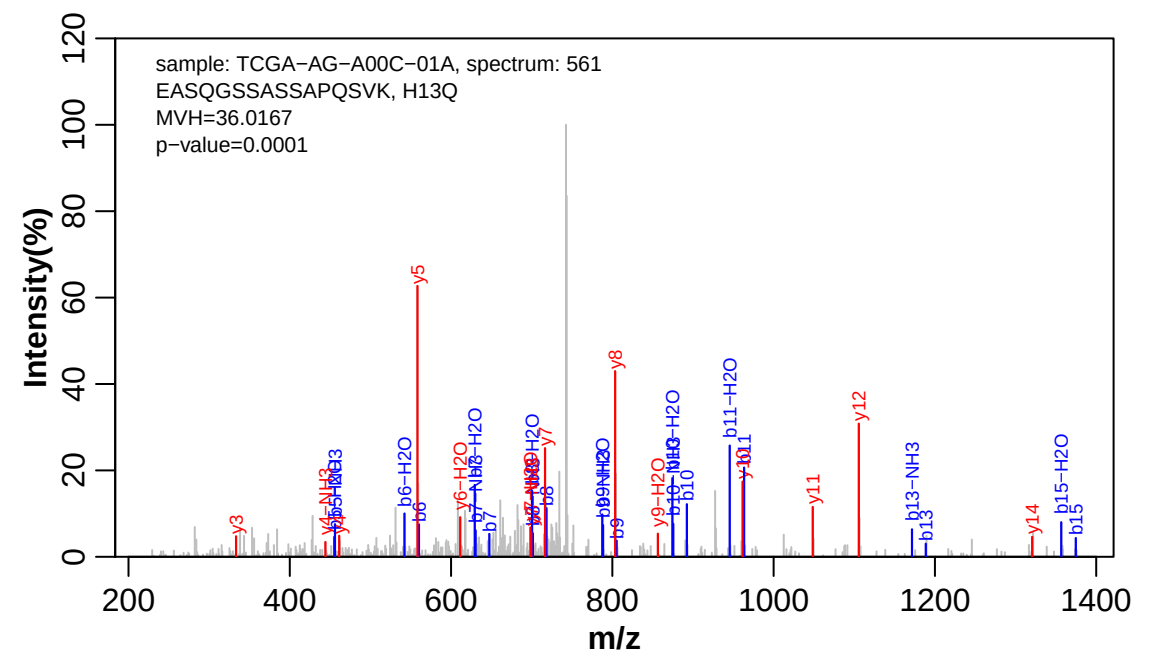

sample: TCGA−AG−A00C−01A, spectrum: 70765
CDPGALVLPFSGALELK, Y1C
MVH=38.9688
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
b7
b8
y9
y10
y11
y12
y15
b15

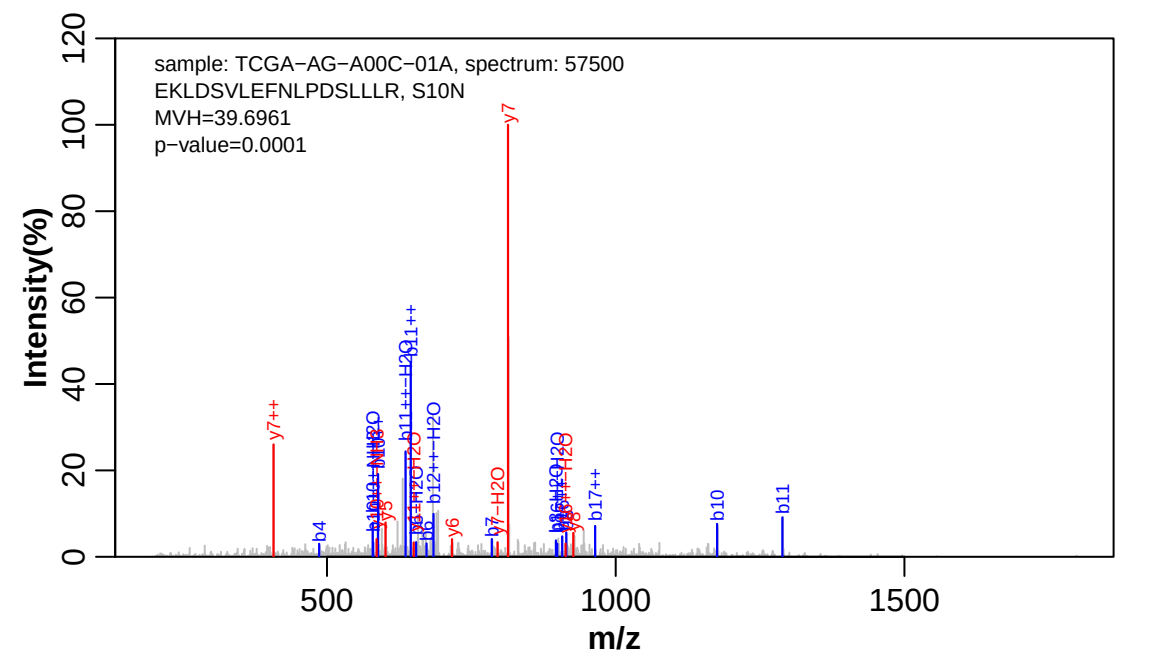

sample: TCGA−AG−A00C−01A, spectrum: 7006
DFYVVEPLAFEGTPEQK, I4V
MVH=45.8421
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6−H2O
b6
y7
y8
y9
b9
b10
y11
y12
b11
y12−NH3
y13−NH3
b13
y14
b15
b16

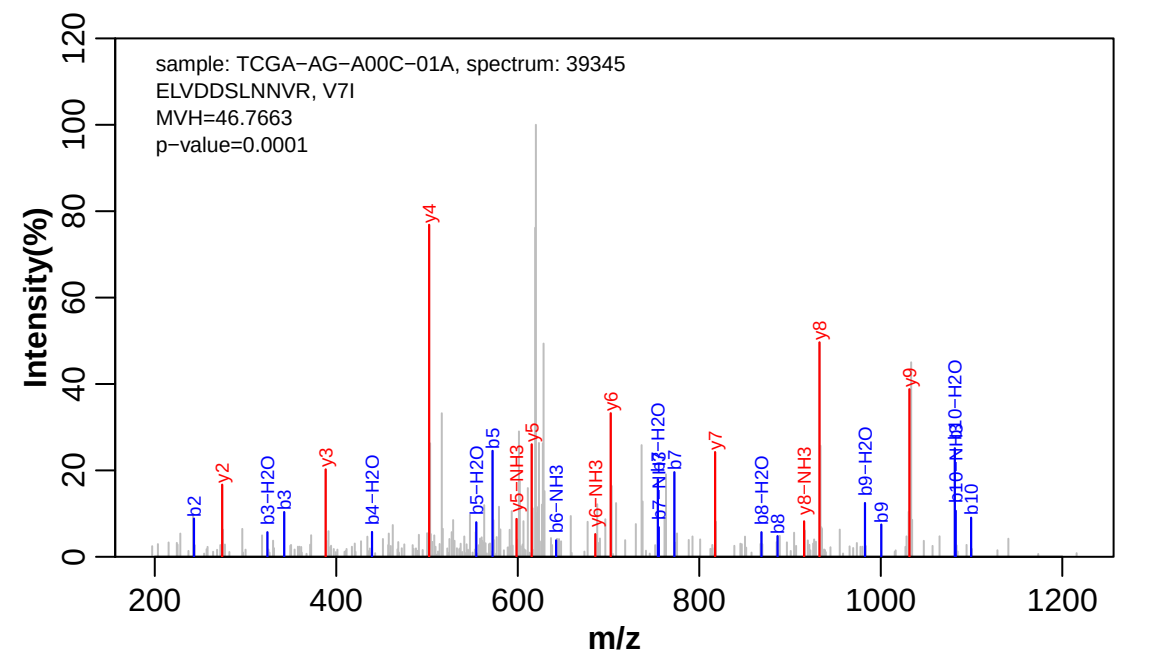

sample: TCGA−AG−A00C−01A, spectrum: 85911
DGYGFLNR, N1D
MVH=40.9453
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y3−NH3
y2
b3
b4−H2O
b4
b5−H2O
b5
y4
b6−H2O
b6
y6

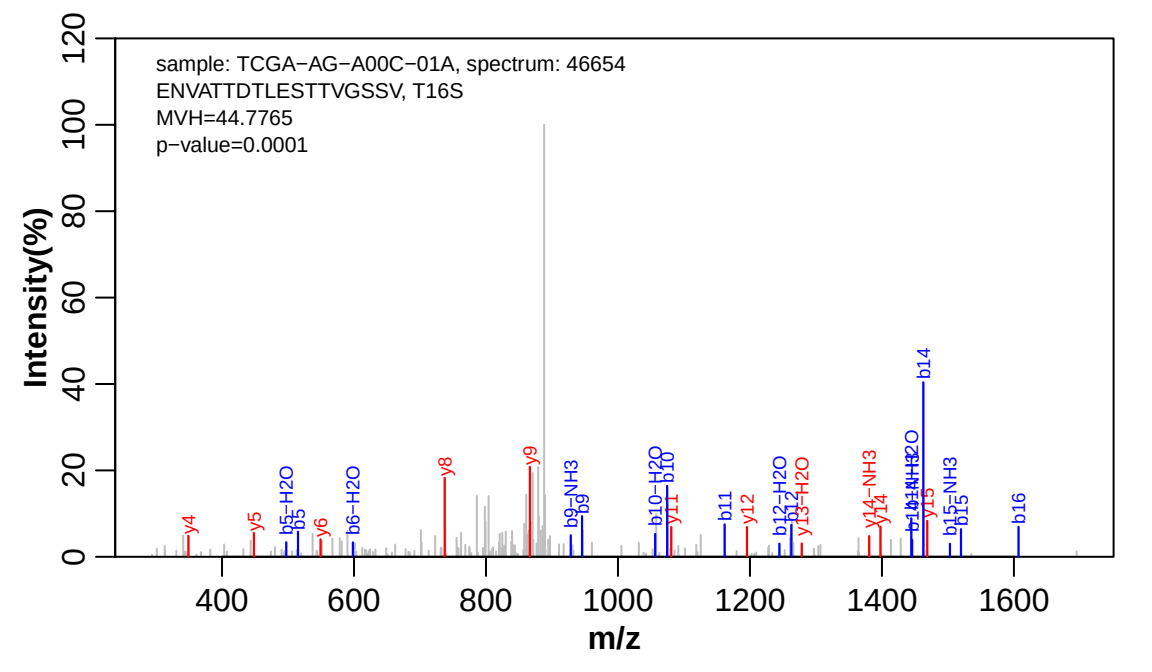

sample: TCGA−AG−A00C−01A, spectrum: 24460
DTEEEDFHVDQATTVK, V12A
MVH=38.0638
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b4−H2O
b8++−H2O
y9++−H2O
y10++
y11++
y12++
y12++−H2O
b6−H2O
b13++−NH3
y13++
y14++

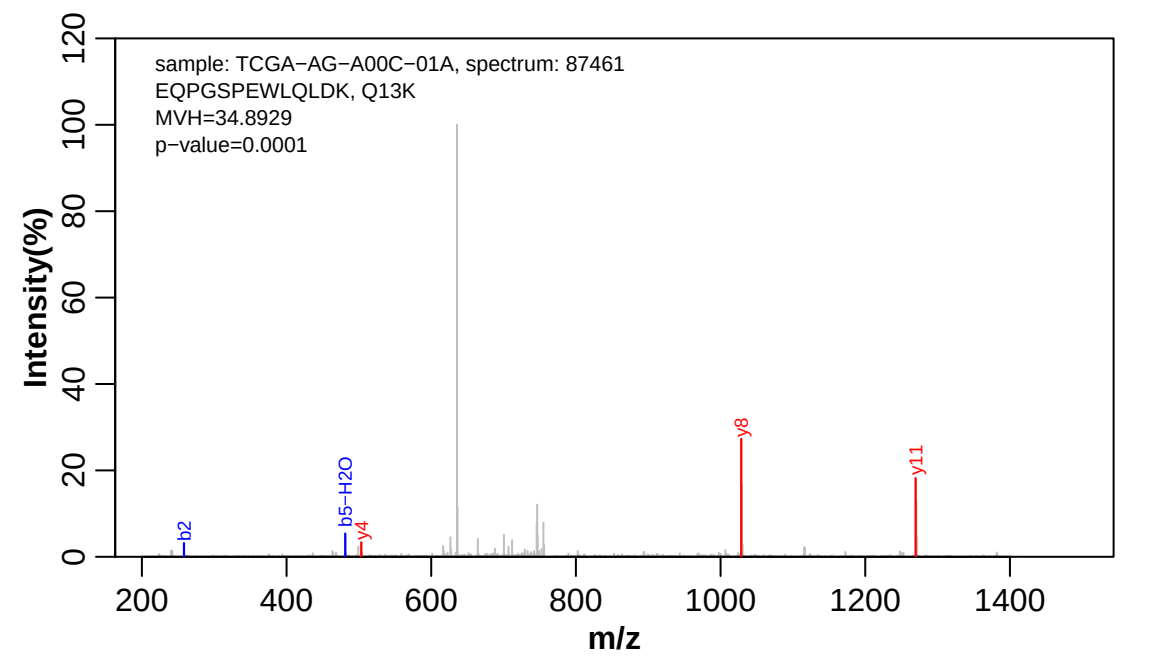

sample: TCGA−AG−A00C−01A, spectrum: 33950
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=41.7660
p−value=0.0001
b10-NH3
b10-H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

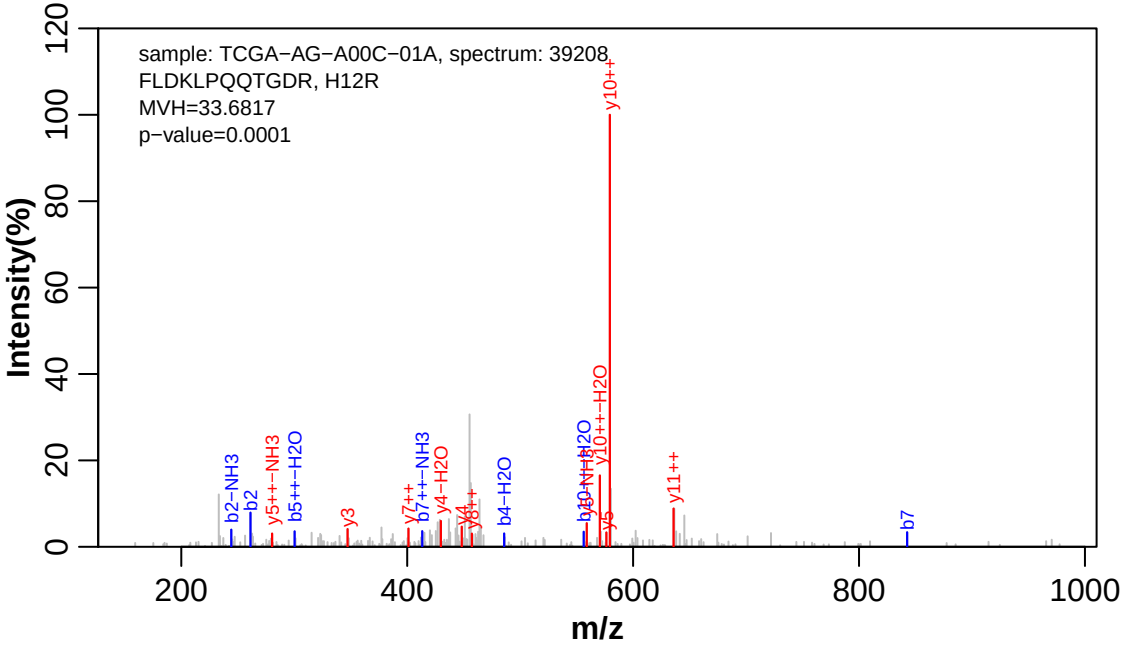

sample: TCGA−AG−A00C−01A, spectrum: 561
EASQGSSASSAPQSVK, H13Q
MVH=36.0167
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
y5
y8
y12
y11
y14
b6−H2O
b11−H2O
b13−NH3
b15−H2O

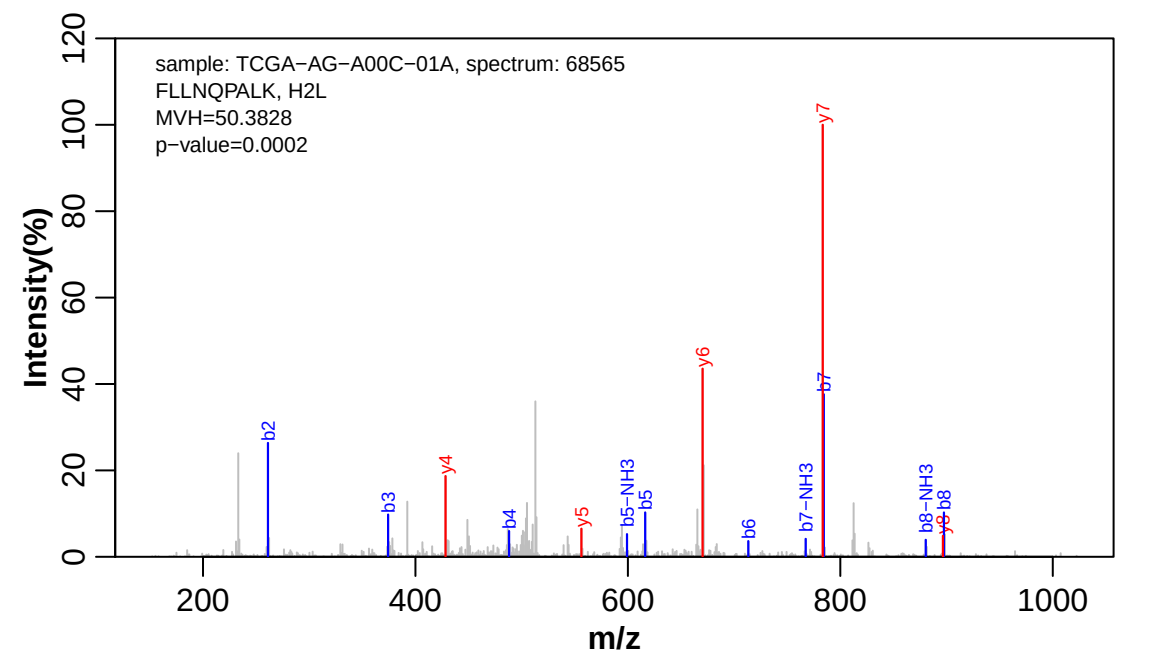

sample: TCGA−AG−A00C−01A, spectrum: 57500
EKLDSVLEFNLPDSLLLR, S10N
MVH=39.6961
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y7++
b4
y6
b7−H2O
b17++
b10
b11
b12++−H2O

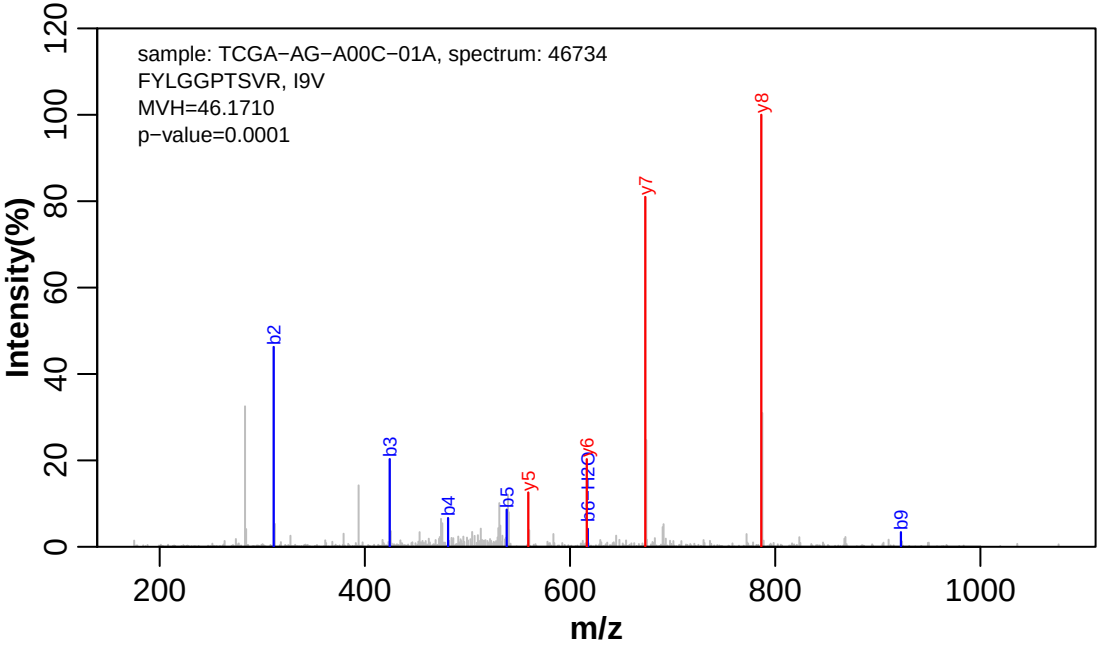

sample: TCGA−AG−A00C−01A, spectrum: 39345
ELVDDSLNNVR, V7I
MVH=46.7663
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
y4
b5−H2O
b5
y5−NH3
y5
b6−NH3
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7
b8−H2O
b8
y8−NH3
y8
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

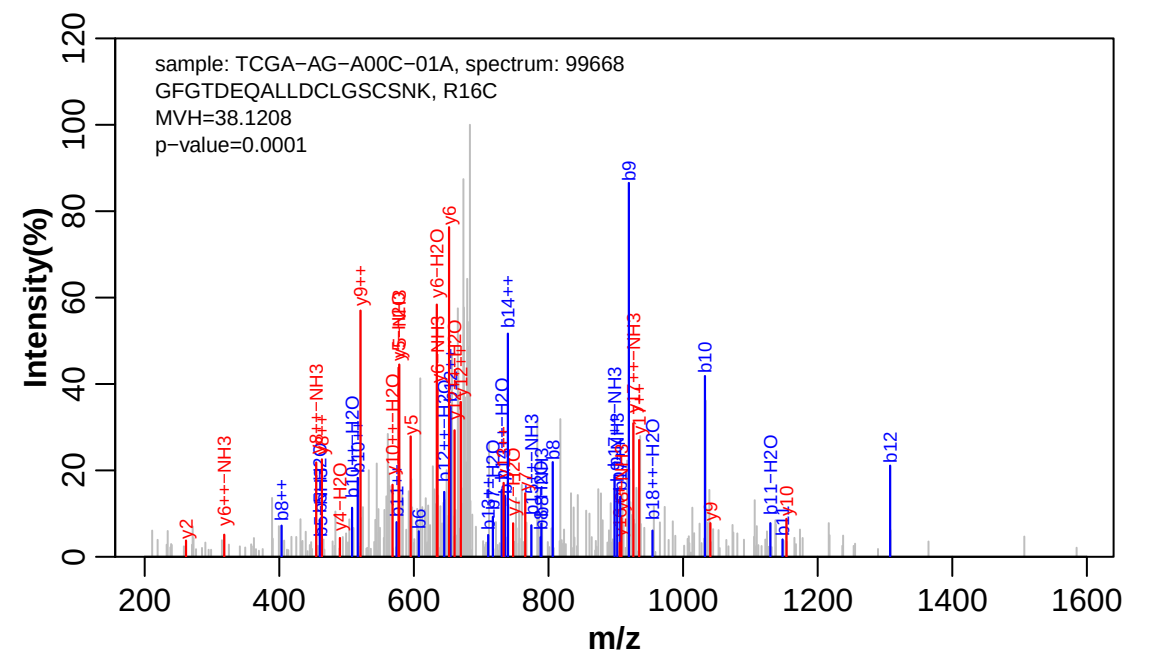

sample: TCGA−AG−A00C−01A, spectrum: 46654
ENVATTDTLESTTVGSSV, T16S
MVH=44.7765
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y4
y5
b5−H2O
b5
y6
b6−H2O
y8
y9
b9−NH3
b9
b10−H2O
b10
y11
b11
y12
b12−H2O
b12
y13−H2O
y14−NH3
y14
b14
y15
b15−NH3
b15
b16

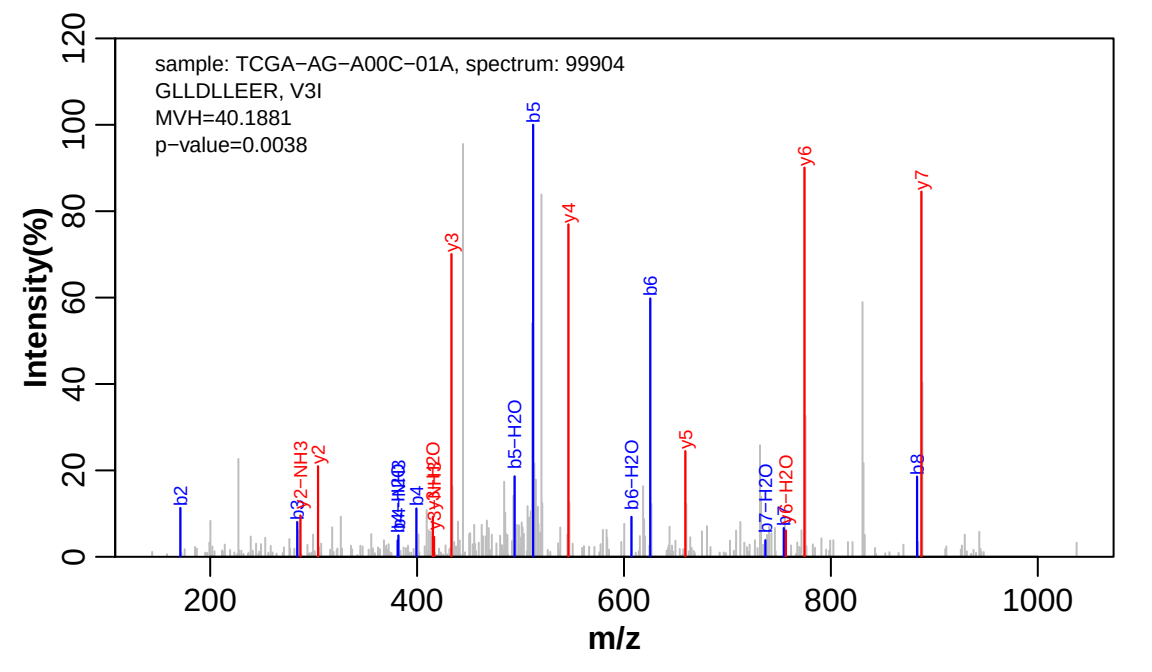

sample: TCGA−AG−A00C−01A, spectrum: 87461
EQPGSPEWLQLDK, Q13K
MVH=34.8929
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b2
b5−H2O
y4
y8
y11

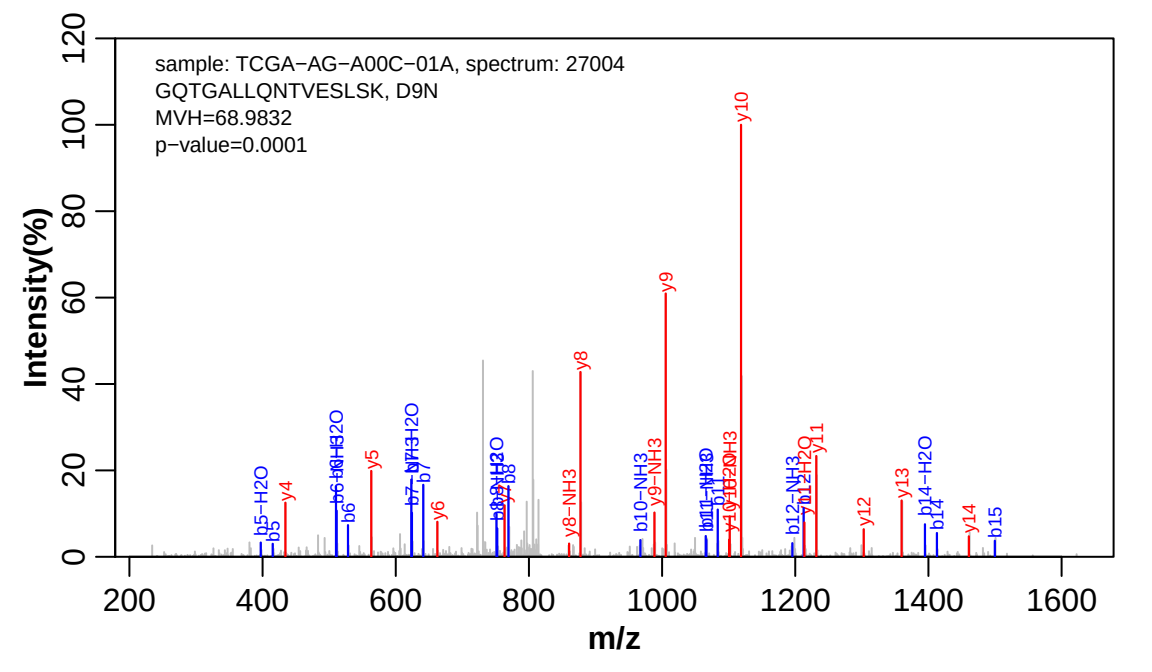

sample: TCGA−AG−A00C−01A, spectrum: 39208
FLDKLPQQTGDR, H12R
MVH=33.6817
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−NH3
b2
y5++−NH3
b5++−H2O
y3
y7++
b7++−NH3
y4−H2O
y8++
b4−H2O
b10−NH3−H2O
y10++−H2O
y5
y10++
y11++
b7

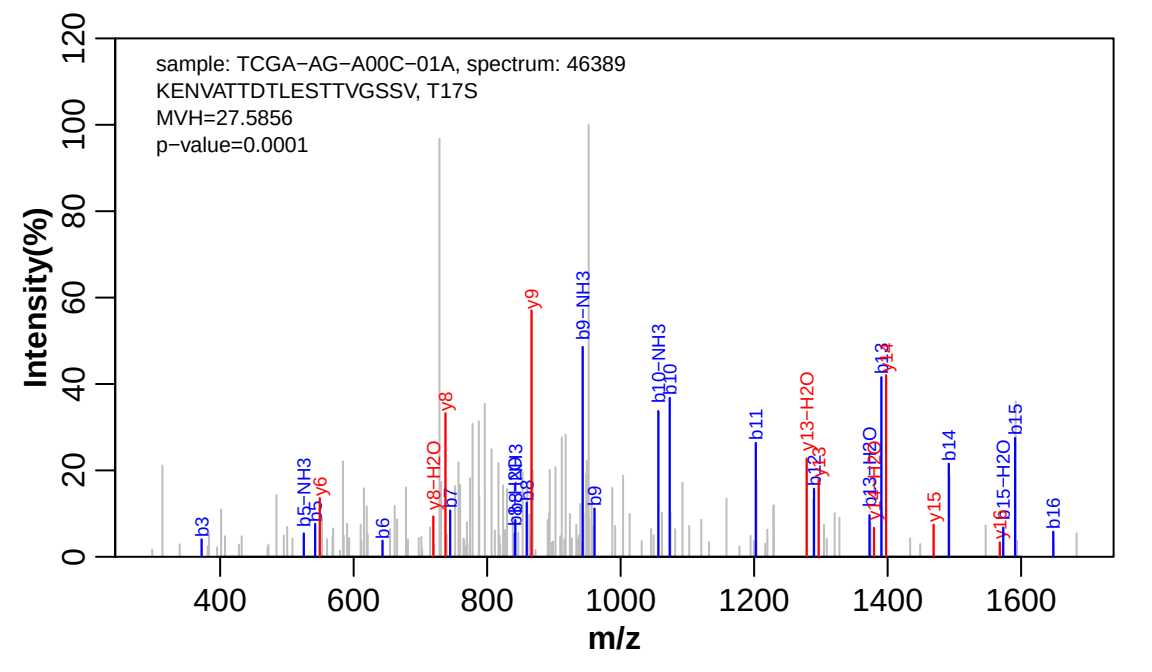

sample: TCGA−AG−A00C−01A, spectrum: 68565
FLLNQPALK, H2L
MVH=50.3828
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
y4
b4
y5
b5−NH3
b5
y6
b6
b7−NH3
y7
b7
b8−NH3
y8
b8

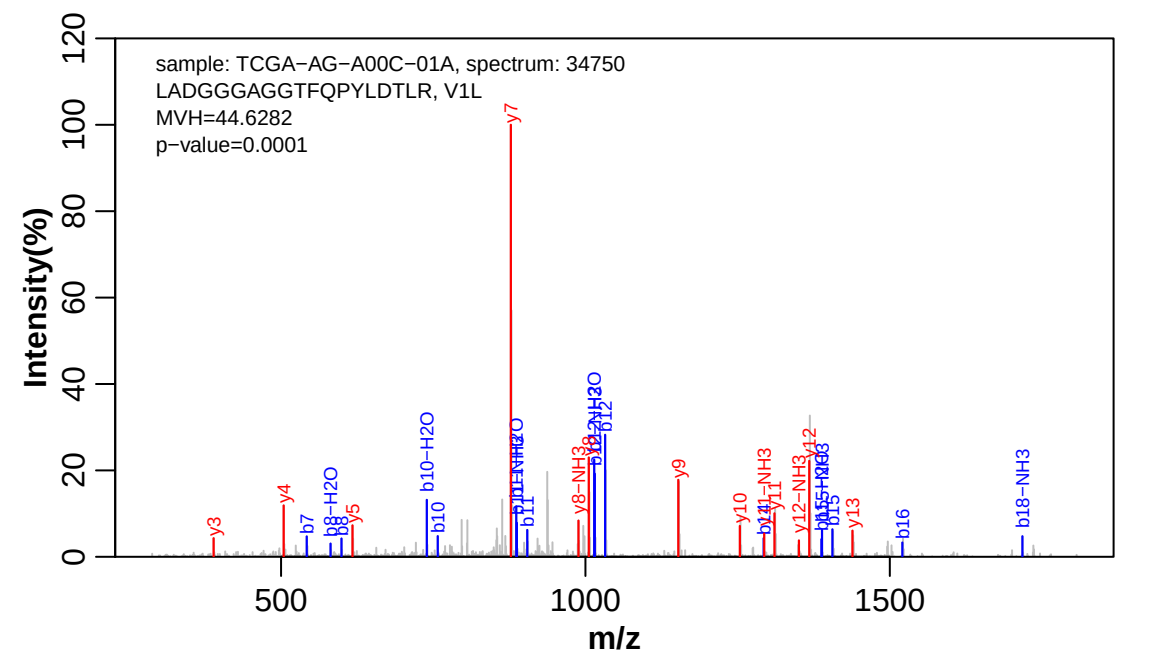

sample: TCGA−AG−A00C−01A, spectrum: 46734
FYLGGPTSVR, I9V
MVH=46.1710
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8
b9

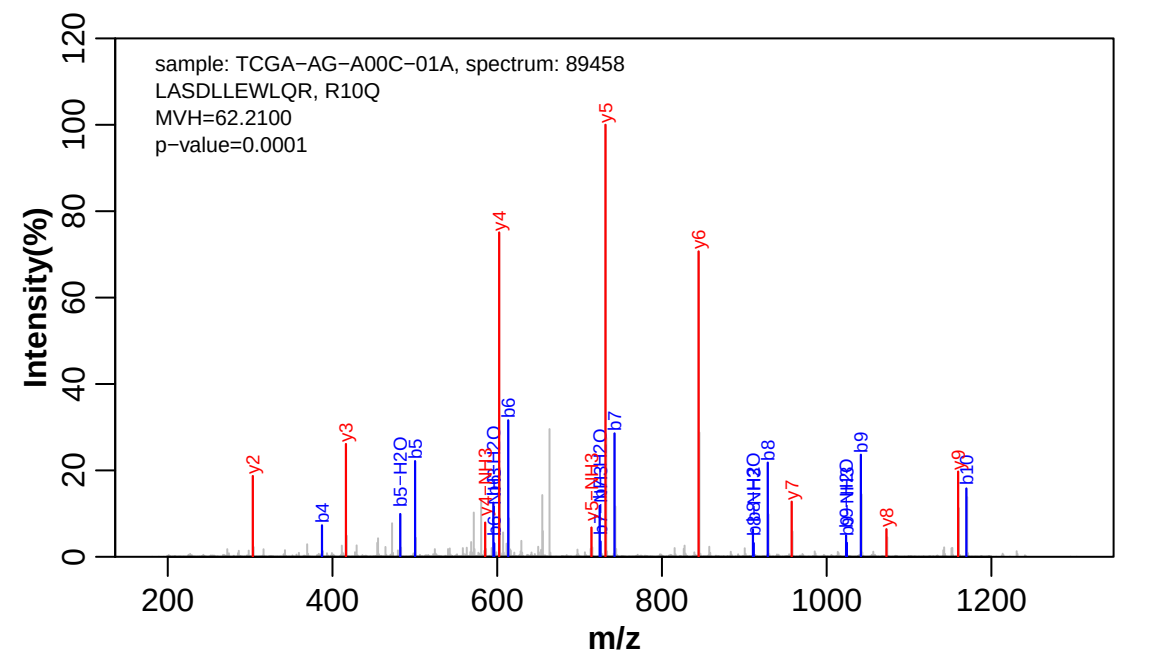

sample: TCGA−AG−A00C−01A, spectrum: 99668
GFGTDEQALLDCLGSCSNK, R16C
MVH=38.1208
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y6++−NH3
b8++
y4−H2O
b10++−H2O
y9++
b6
y5
y6−NH3
y6−H2O
y6
b14++
b9
b10
b12
y9
b11−H2O
y10
b12++−H2O
b8
b18++−H2O

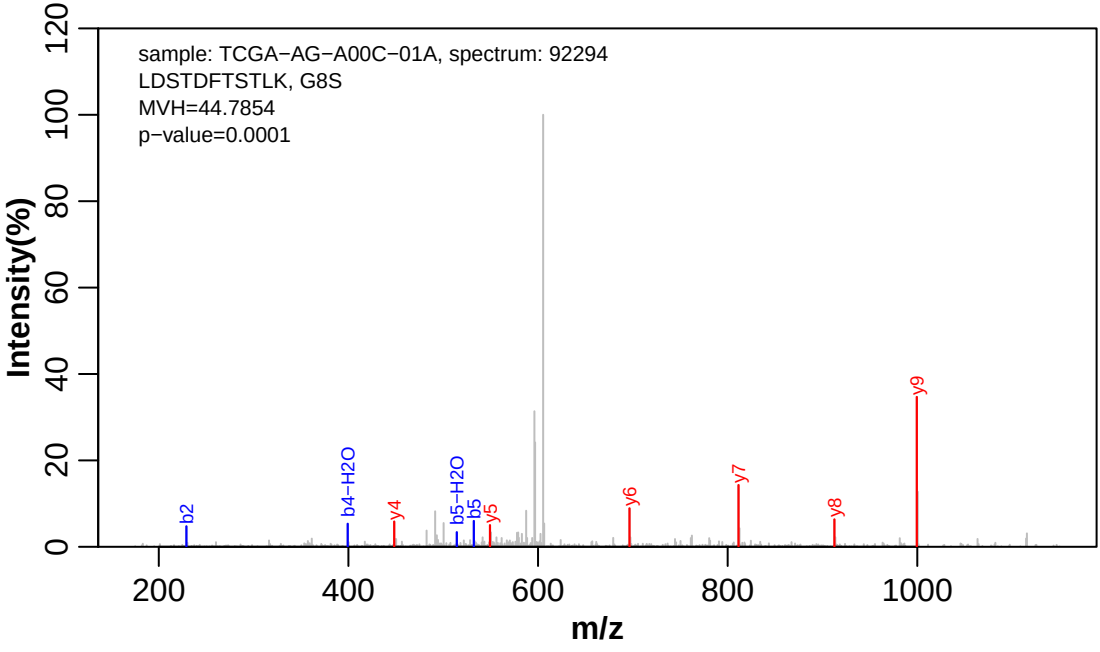

sample: TCGA−AG−A00C−01A, spectrum: 99904
GLLDLLEER, V3I
MVH=40.1881
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
y2−NH3
y2
b4
y3
b5
b5−H2O
y4
b6
b6−H2O
y5
b7−H2O
y6
b6−H2O
y7
b8

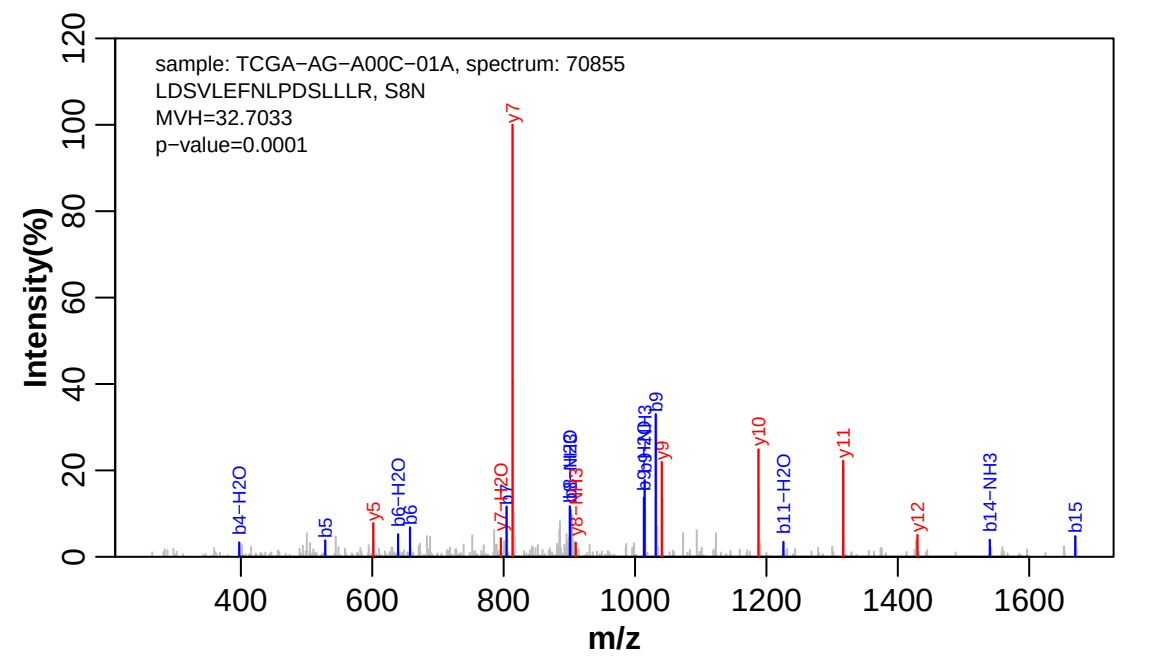

sample: TCGA−AG−A00C−01A, spectrum: 27004
GQTGALLQNTVESLSK, D9N
MVH=68.9832
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
y5
b7−NH3
b7−H2O
b7
y6
b8−NH3
b8−H2O
b8
y7
y8−NH3
y8
b10−NH3
y9−NH3
y9
b11−NH3
b11−H2O
b11
y10−NH3
y10−H2O
y10
b12−NH3
b12−H2O
b12
y11
y12
y13
b14−H2O
b14
y14
b15

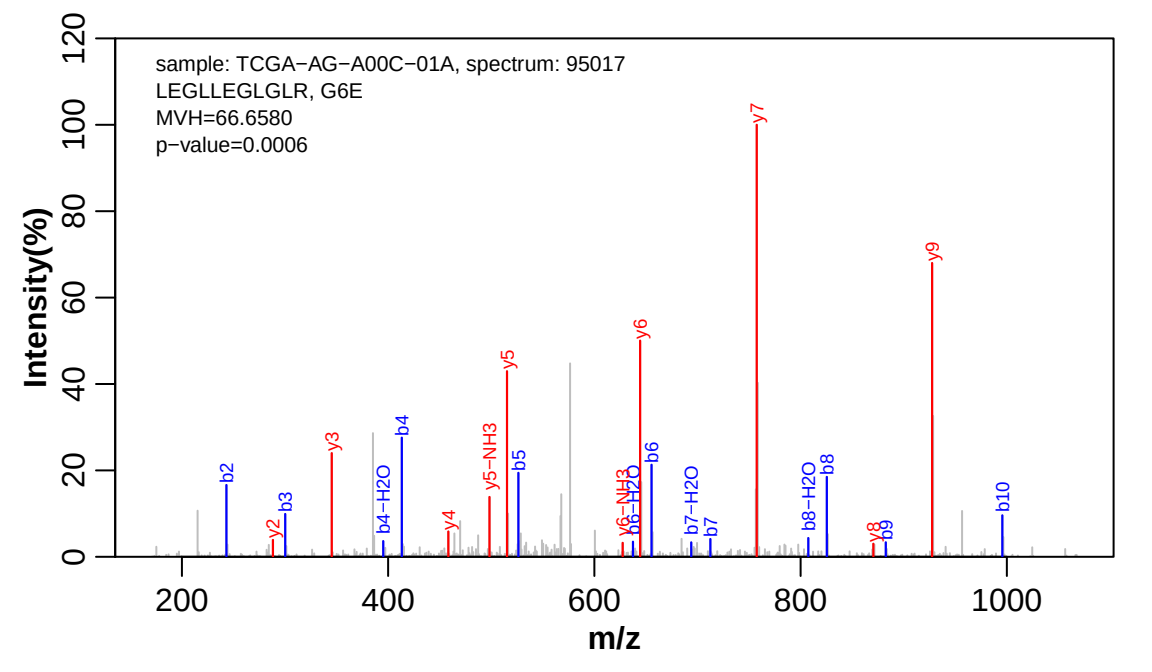

sample: TCGA−AG−A00C−01A, spectrum: 46389
KENVATTDTLESTTVGSSV, T17S
MVH=27.5856
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
b3
b5−NH3
b5
y6
b6
y8−H2O
y8
b7
y9
b9−NH3
b9
b10−NH3
b10
b11
y13−H2O
b12
y13
b13−H2O
b13
y14
y15
b14
y16
y15−H2O
b15
b16

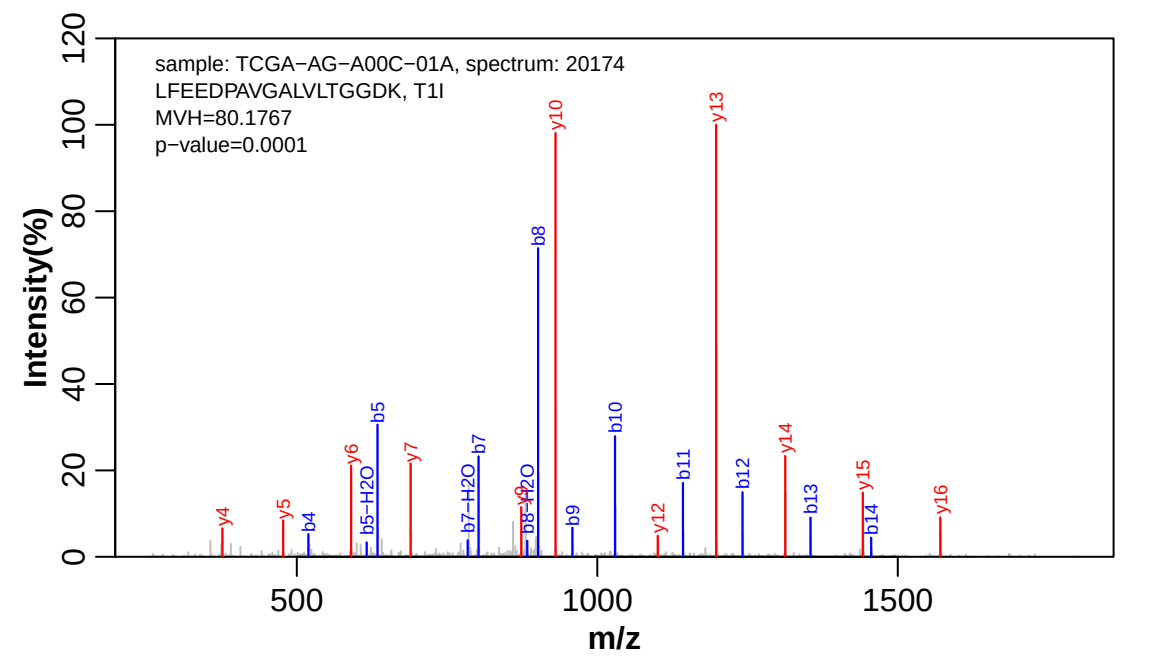

sample: TCGA−AG−A00C−01A, spectrum: 34750
LADGGGAGGTFQPYLDTLR, V1L
MVH=44.6282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7
b8−H2O
b8
y5
b10−H2O
b10
y8−NH3
b12
y9
y10
b11−NH3
b11
y11
y12−NH3
y12
b15
y13
b16
b18−NH3

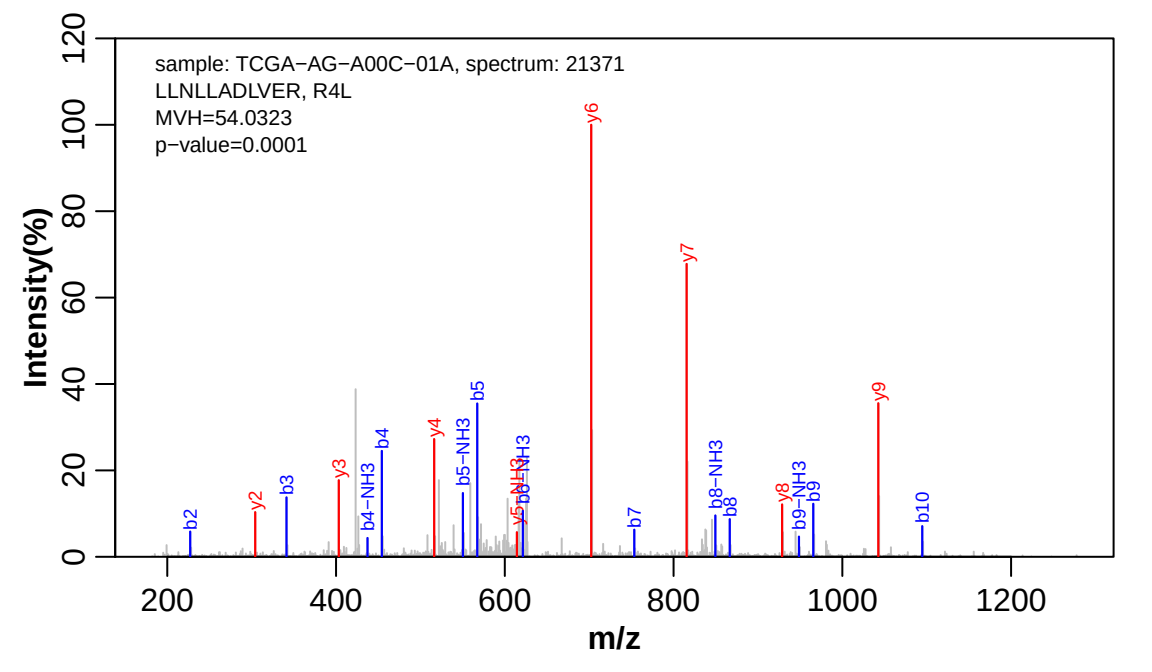

sample: TCGA−AG−A00C−01A, spectrum: 89458
LASDLLEWLQR, R10Q
MVH=62.2100
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4
b5−H2O
b5
y4
b6
y5
b7
y6
b8
y7
y8
b9
b10

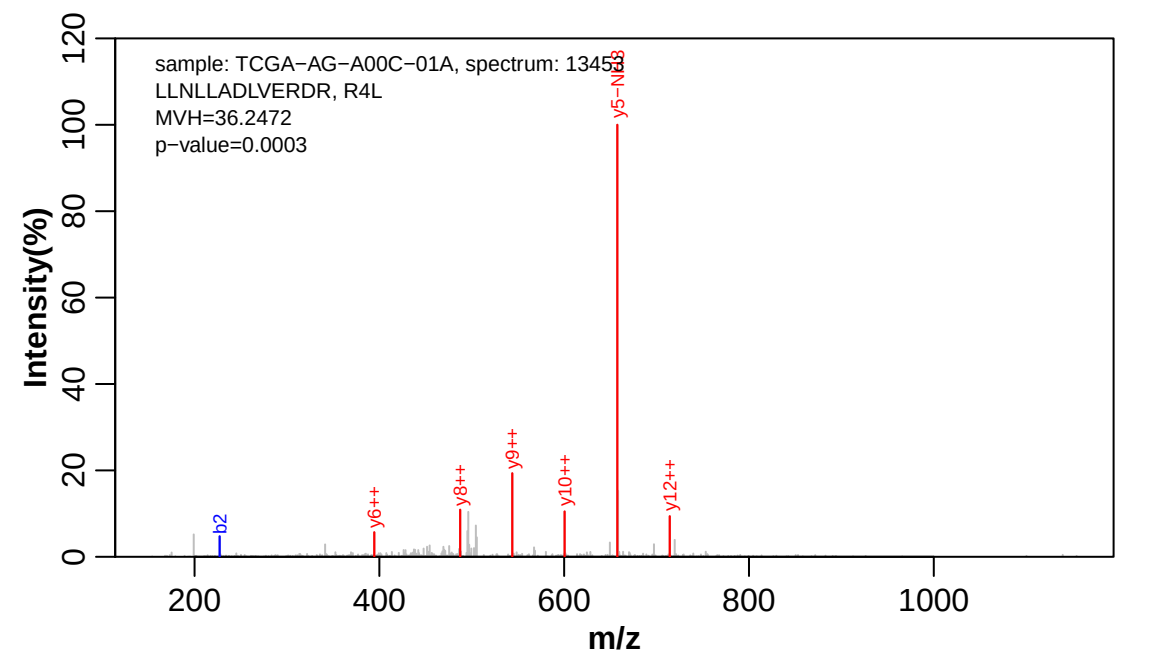

sample: TCGA−AG−A00C−01A, spectrum: 92294
LDSTDFTSTLK, G8S
MVH=44.7854
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4−H2O
y4
b5−H2O
b5
y5
y6
y7
y8
y9

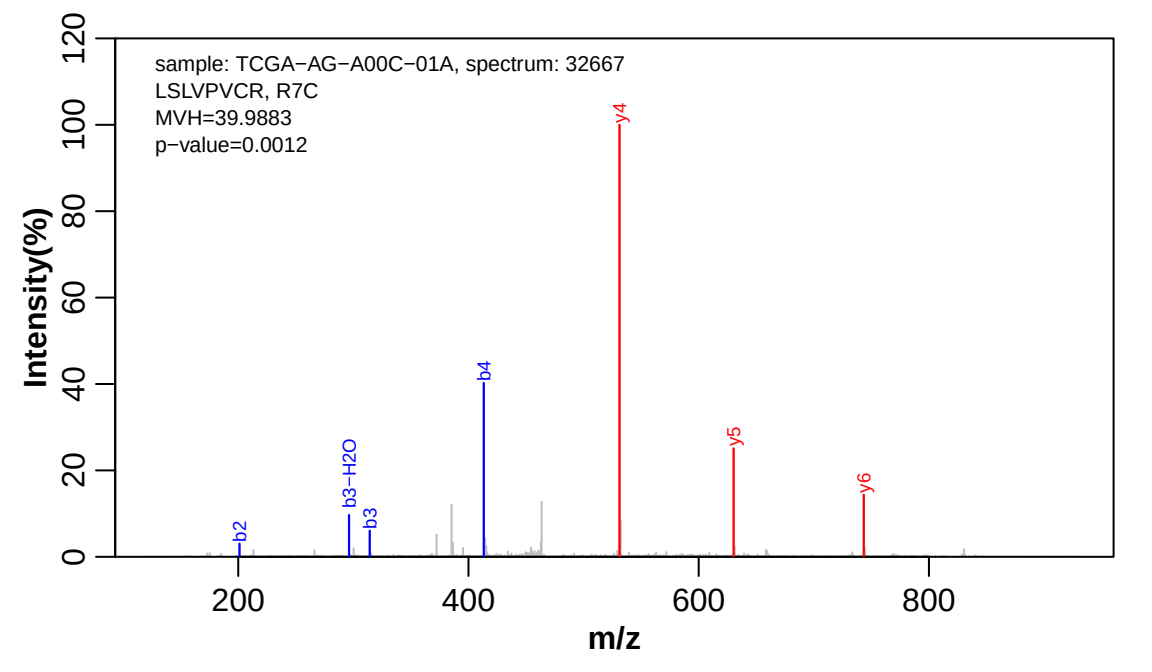

sample: TCGA−AG−A00C−01A, spectrum: 70855
LDSVLEFNLPDSLLLR, S8N
MVH=32.7033
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
b4−H2O
b5
y5
b6−H2O
b6
y7
y7−H2O
b7
y8−NH3
b8−NH3
b8
b9−H2O
b9−NH3
b9
y9
y10
b11−H2O
y11
y12
b14−NH3
b15

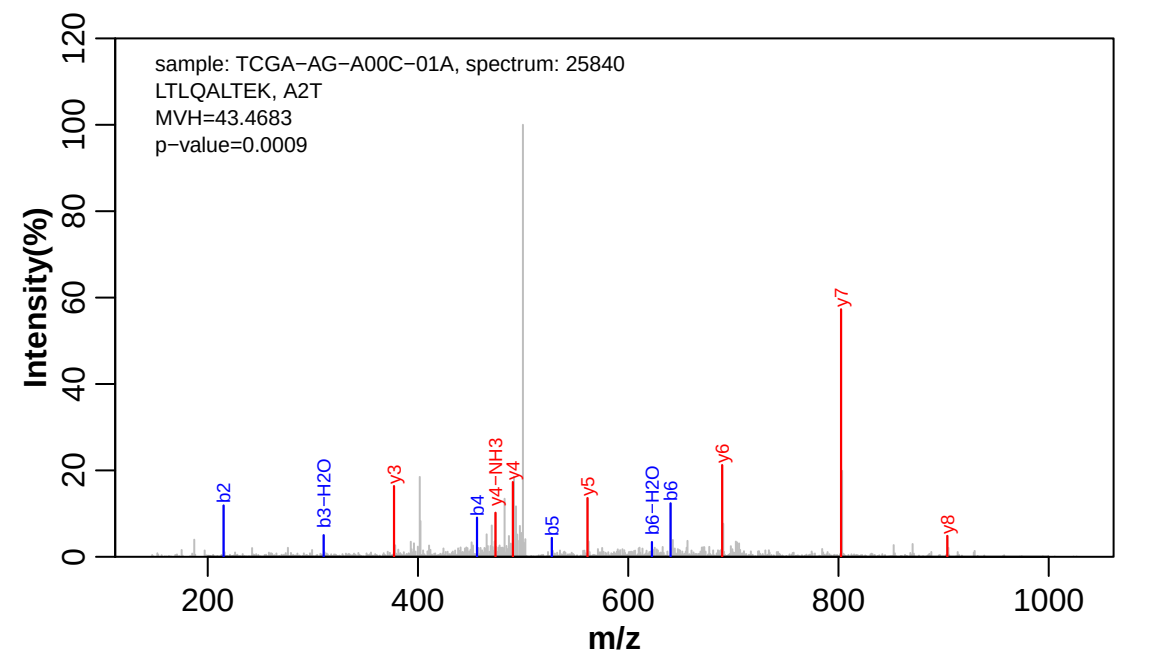

sample: TCGA−AG−A00C−01A, spectrum: 95017
LEGLLEGLGLR, G6E
MVH=66.6580
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y7
y9
y6
y5
y3
b4
b2
b3
y2
b4−H2O
y4
y5−NH3
b5
y6−NH3
b6−H2O
b6
b7−H2O
b7
b8−H2O
b8
y8
b9
b10

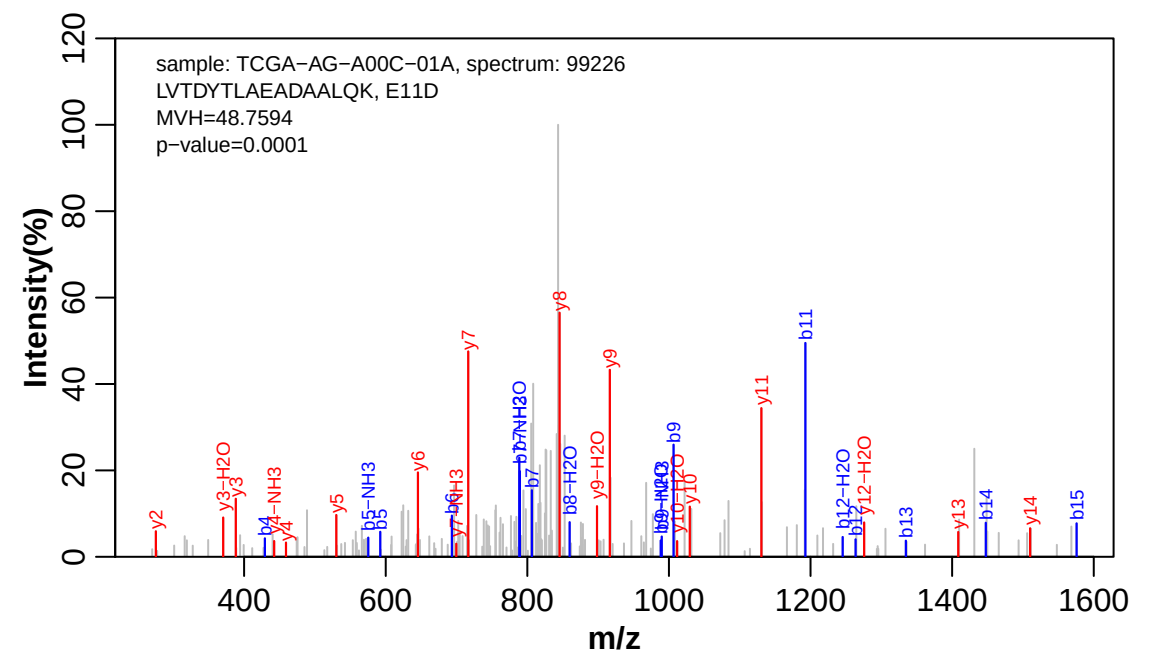

sample: TCGA−AG−A00C−01A, spectrum: 20174
LFEEDPAVGALVLTGGDK, T1I
MVH=80.1767
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
b5−H2O
b5
y6
y7
b7−H2O
b7
b8−H2O
y8
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

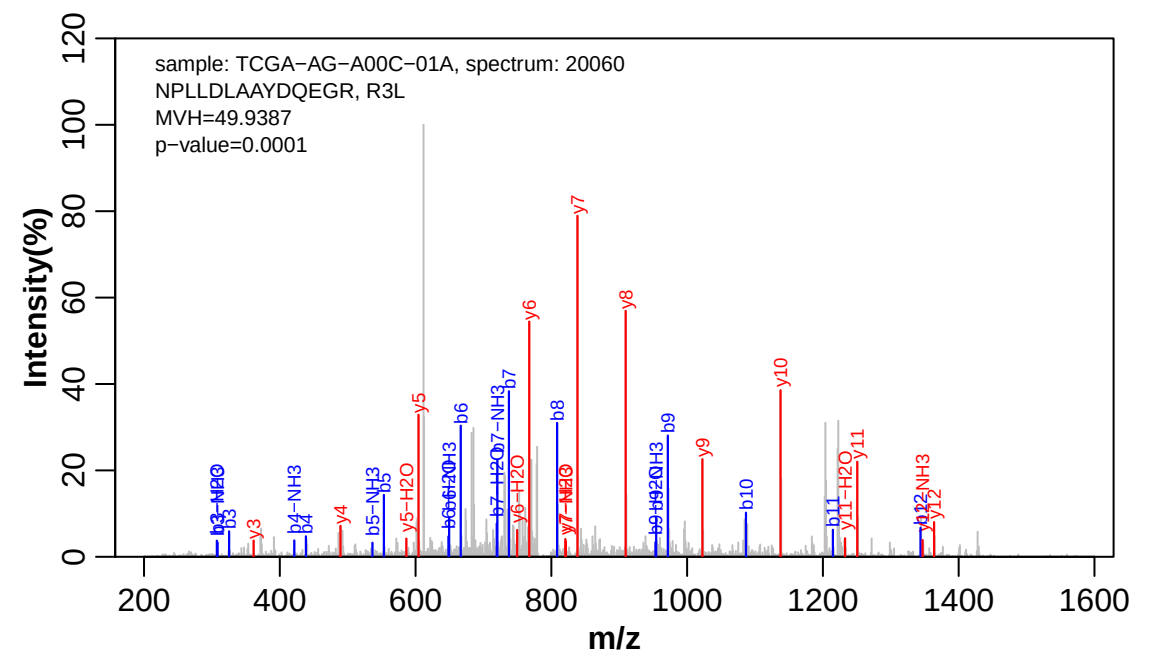

sample: TCGA−AG−A00C−01A, spectrum: 21371
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b6
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

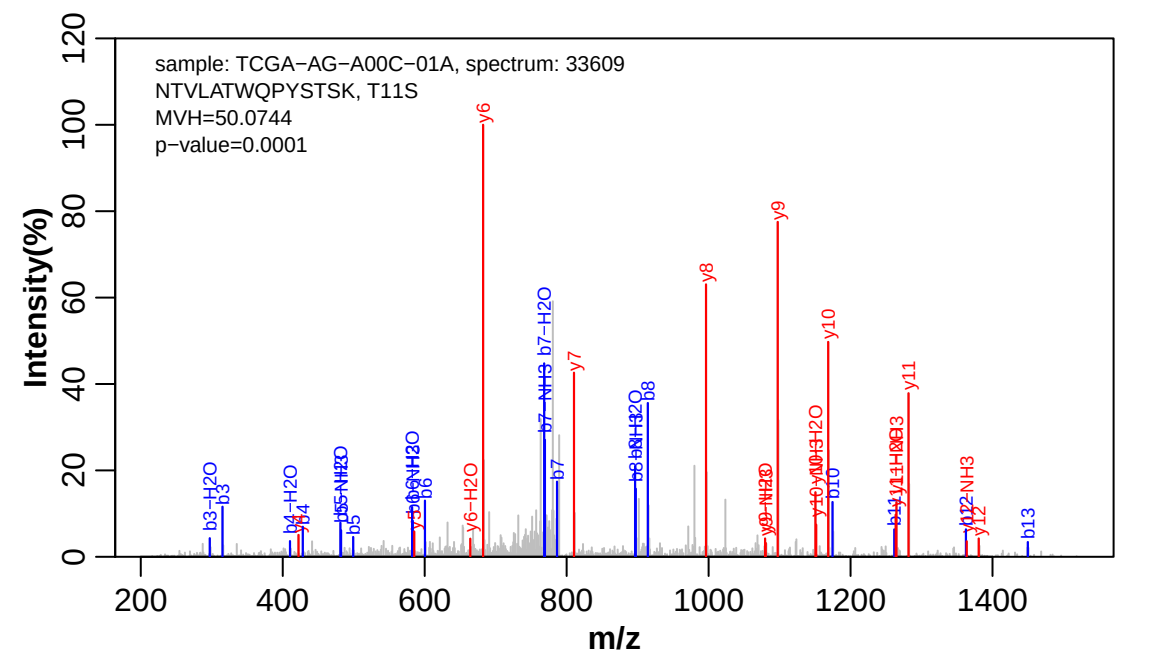

sample: TCGA−AG−A00C−01A, spectrum: 13453
LLNLLADLVERDR, R4L
MVH=36.2472
p−value=0.0003
y5−NH3
y5−H2O
y6++
y8++
y9++
y10++
y12++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

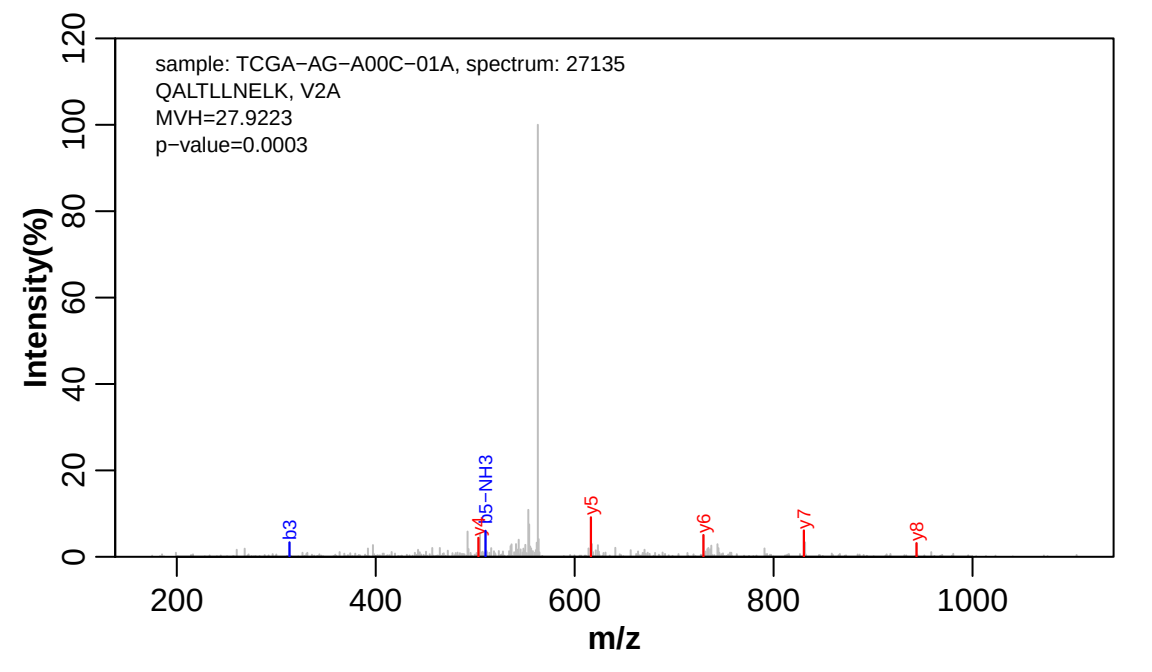

sample: TCGA−AG−A00C−01A, spectrum: 32667
LSLVPVCR, R7C
MVH=39.9883
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3−H2O
b3
b4
y4
y5
y6

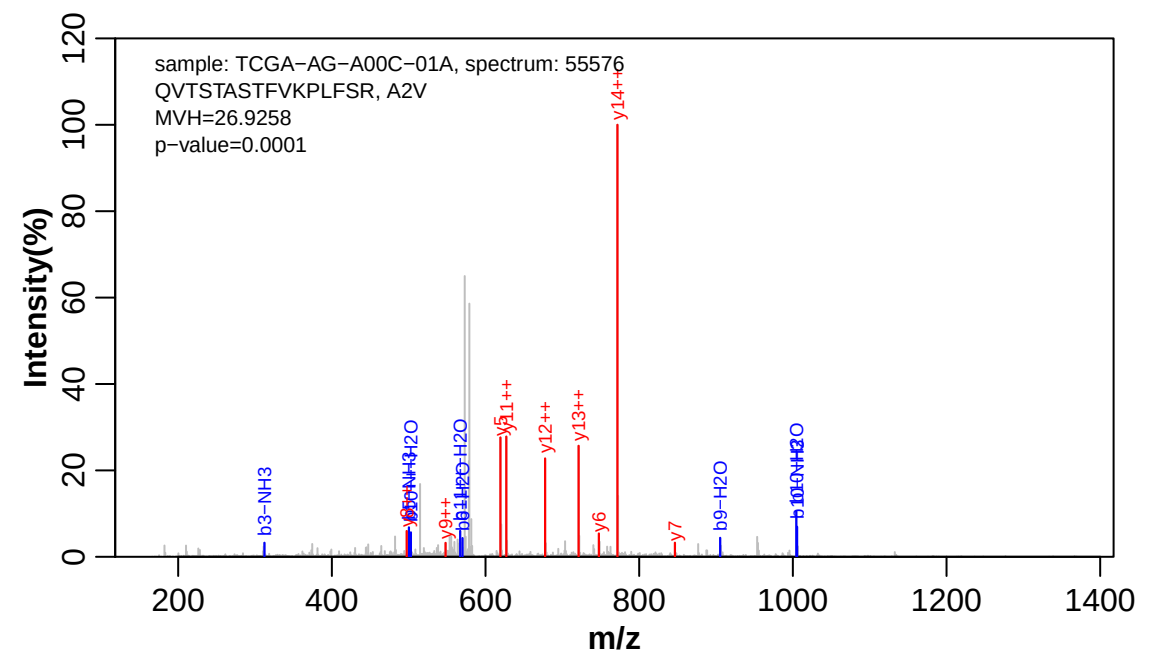

sample: TCGA−AG−A00C−01A, spectrum: 25840
LTLQALTEK, A2T
MVH=43.4683
p−value=0.0009
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3−H2O
y3
b4
y4−NH3
y4
b5
y5
b6−H2O
b6
y6
y7
y8

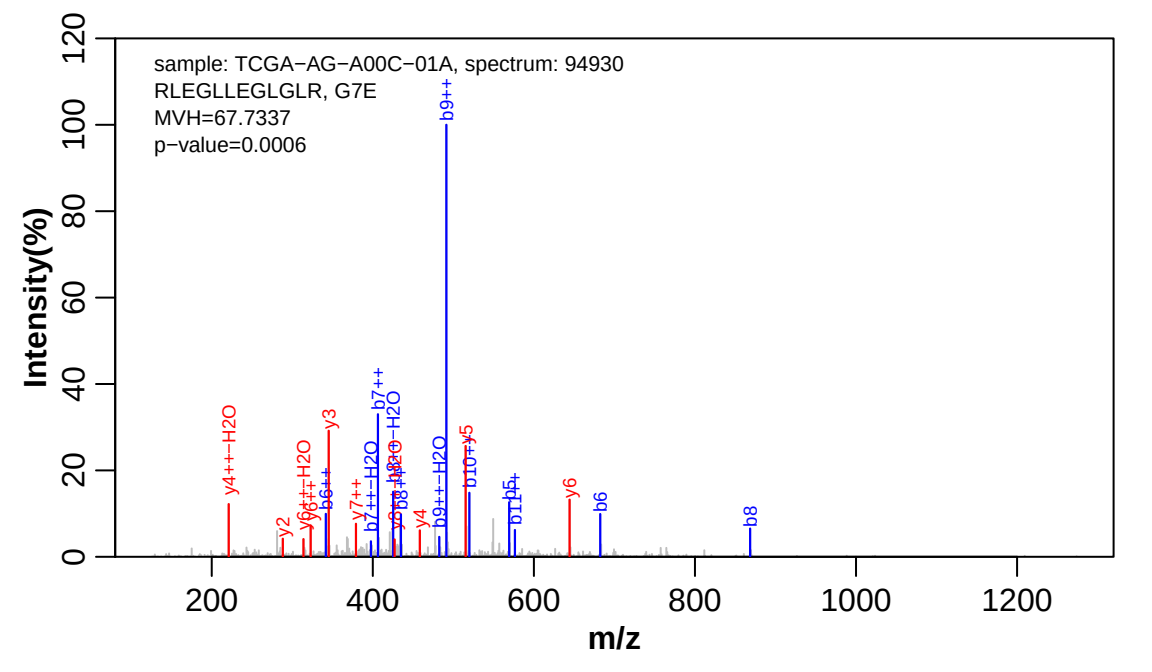

sample: TCGA−AG−A00C−01A, spectrum: 99226
LVTDYTLAEADAALQK, E11D
MVH=48.7594
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y2
y3−H2O
y3
b4
b4−NH3
y4
y5
b5−NH3
b5
y6
y7−NH3
y7
b7−NH3
b7
y8
b8−H2O
y9−H2O
y9
b9−H2O
y10−H2O
y10
y11
b11
b12−H2O
y12−H2O
b13
y13
b14
y14
b15

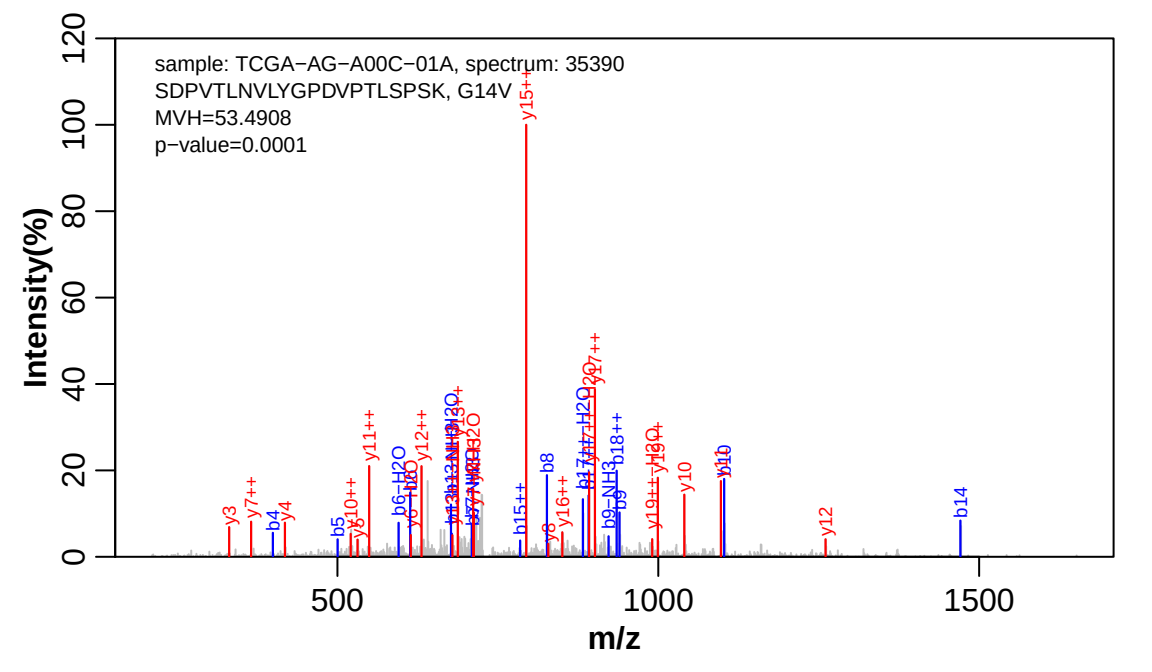

sample: TCGA−AG−A00C−01A, spectrum: 20060
NPLLDLAAYDQEGR, R3L
MVH=49.9387
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−H2O
y5
b6
b7−NH3
b7
y6−H2O
y6
b8
y7
y8
b9
y9
b10
y10
b11
y11−H2O
y11
y12−NH3
y12

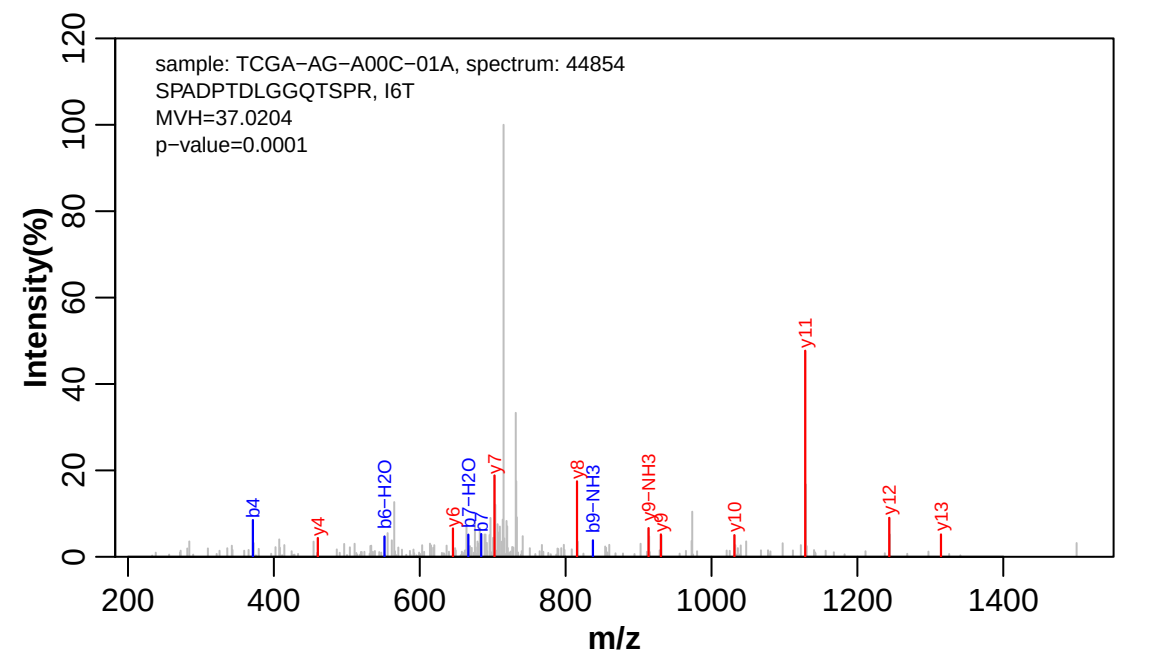

sample: TCGA−AG−A00C−01A, spectrum: 33609
NTVLATWQPYSTSK, T11S
MVH=50.0744
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y9
y8
y10
y11
y7
b7−NH3
b7−H2O
b8
b7
y6−H2O
b3−H2O
b3
b4−H2O
y4
b5−NH3
b5
b6−NH3
b6
b10
b12−NH3
y12
b13

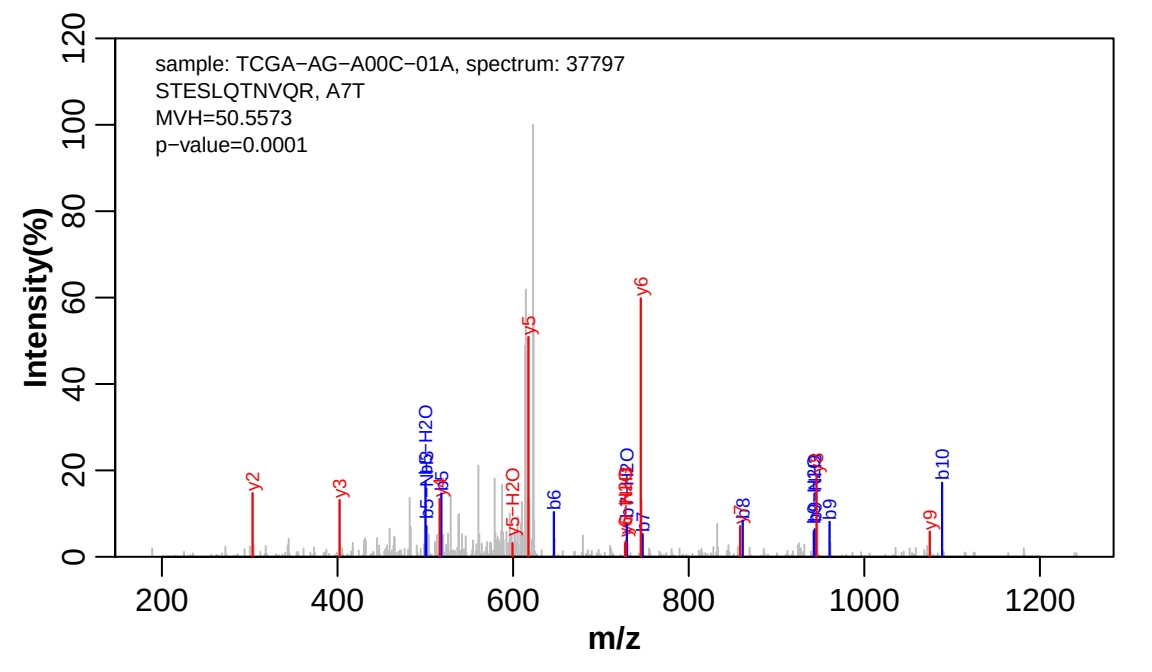

sample: TCGA−AG−A00C−01A, spectrum: 27135
QALTLLNELK, V2A
MVH=27.9223
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y4
b5−NH3
y5
y6
y7
y8

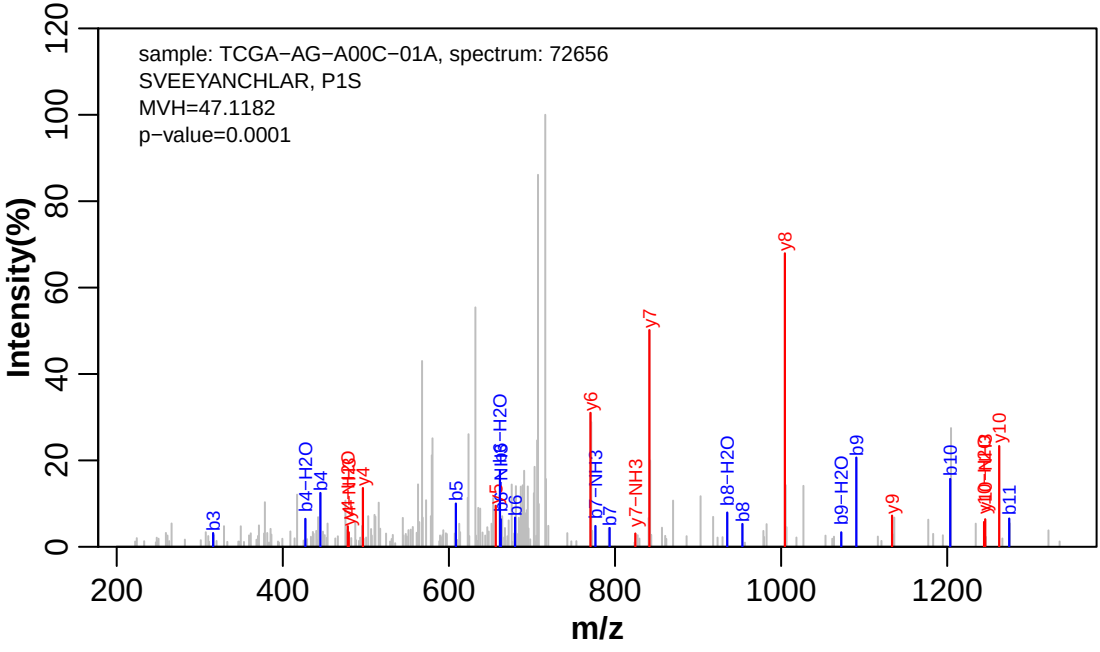

sample: TCGA−AG−A00C−01A, spectrum: 55576
QVTSTASTFVKPLFSR, A2V
MVH=26.9258
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−NH3
y9++
y11++
y12++
y13++
y14++
y6
y7
b9−H2O

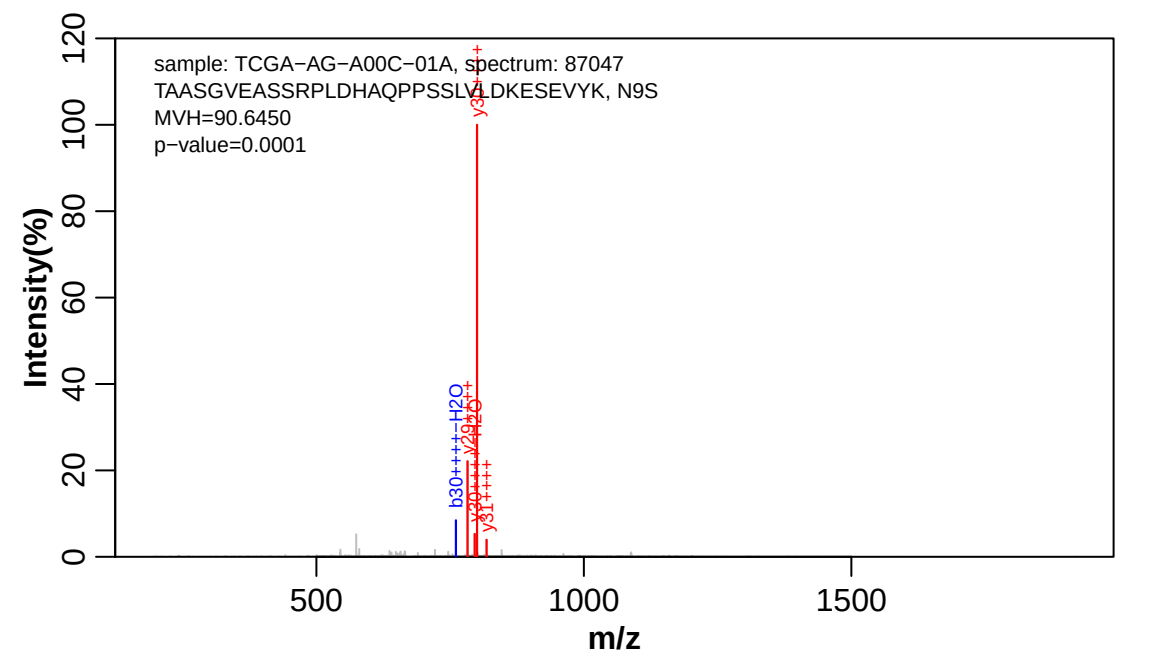

sample: TCGA−AG−A00C−01A, spectrum: 94930
RLEGLLEGLGLR, G7E
MVH=67.7337
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b9++
y4++−H2O
y3
b7++
y2
y6++−H2O
y6++
b6++
y7++
b7++−H2O
y8++−H2O
b8++−H2O
y4
b9++−H2O
b10+y5
b11−b5
y6
b6
b8

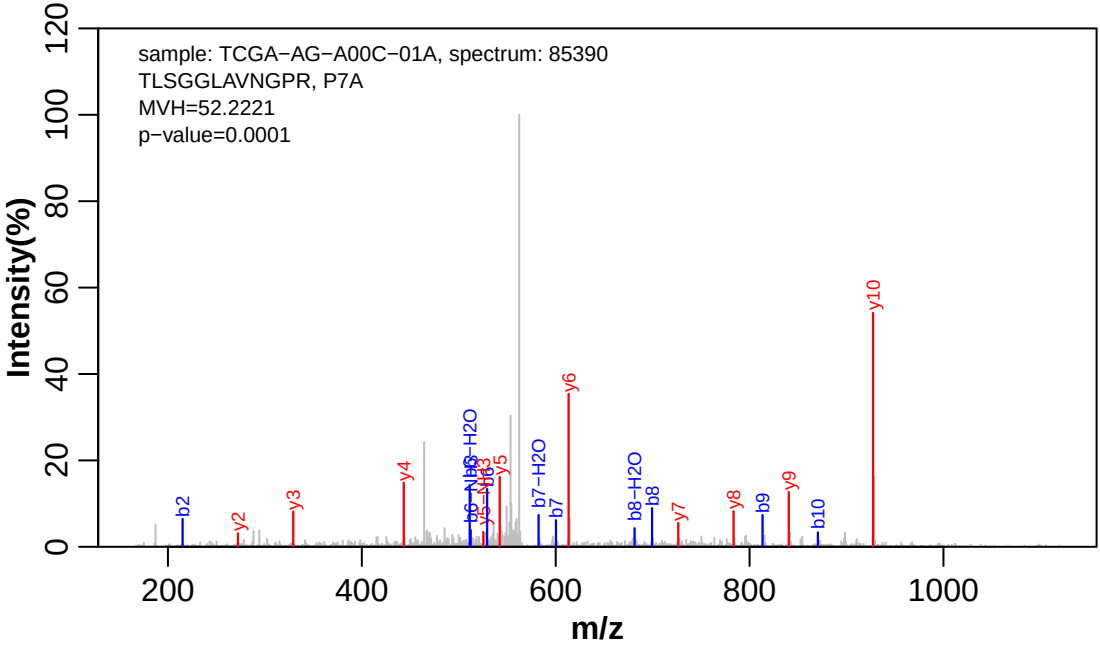

sample: TCGA−AG−A00C−01A, spectrum: 35390
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=53.4908
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y3
y7++
b4
y4
b5
y10++
y5
y11++
b6−H2O
y6−H2O
y12++
b15++
b8
y16++
y8
b9
b18++
y10
y9
y12
b14

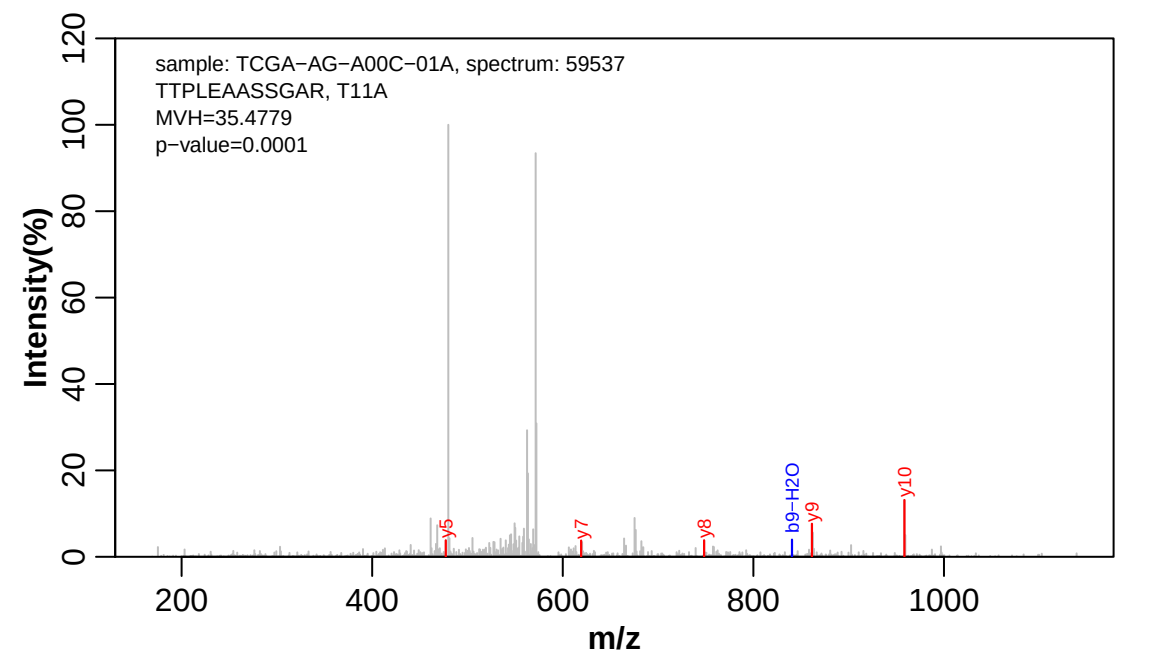

sample: TCGA−AG−A00C−01A, spectrum: 44854
SPADPTDLGGQTSPR, I6T
MVH=37.0204
p−value=0.0001
Intensity(%)
m/z
b4
y4
b6−H2O
y6
b7−H2O
b7
y7
y8
b9−NH3
y9−NH3
y9
y10
y11
y12
y13

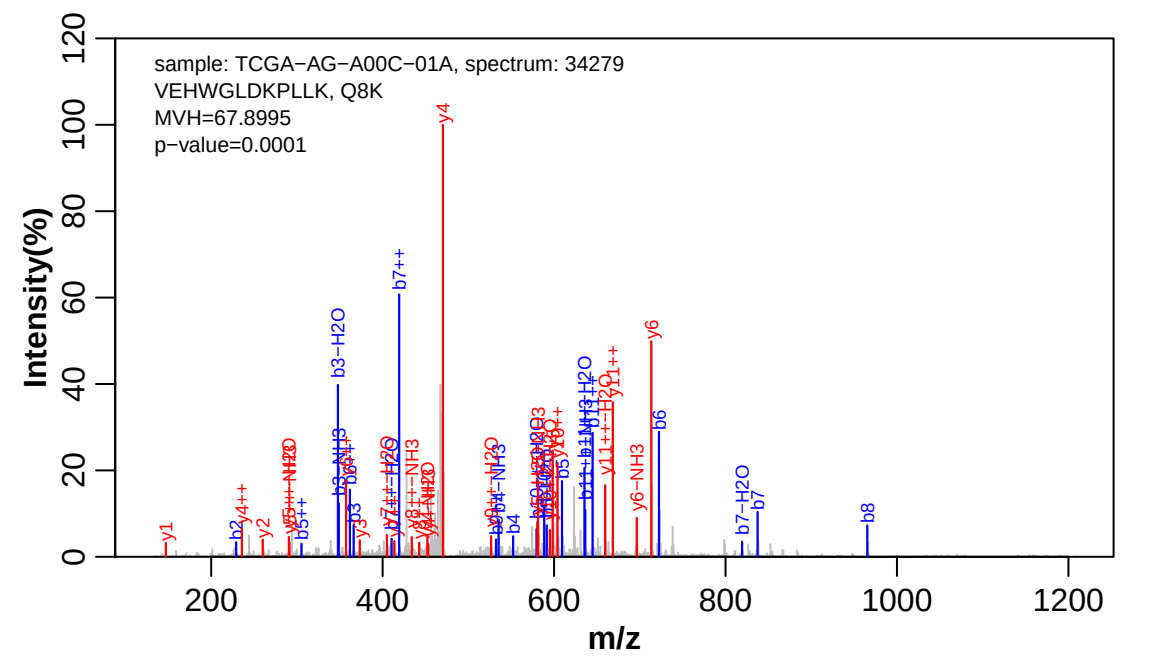

sample: TCGA−AG−A00C−01A, spectrum: 37797
STESLQTNVQR, A7T
MVH=50.5573
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
y5
y6
b6
b10
y9
y5−H2O

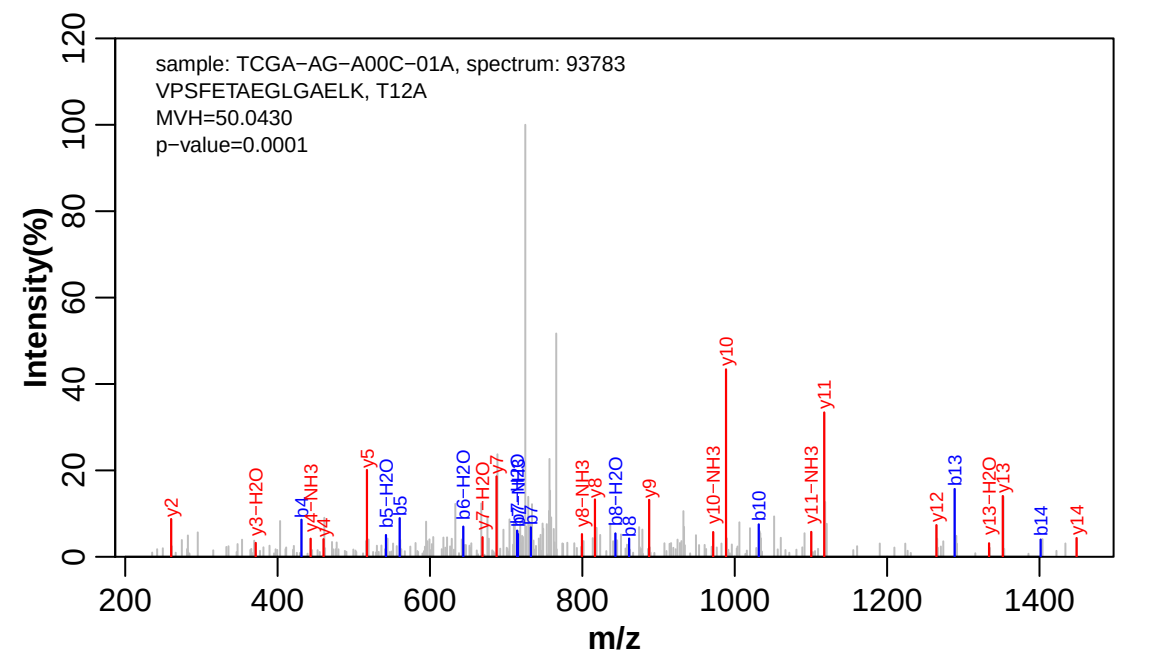

sample: TCGA−AG−A00C−01A, spectrum: 72656
SVEEYANCHLAR, P1S
MVH=47.1182
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
b4−H2O
b4
y4−NH3
y4
b5
y5−NH3
y5
b6−H2O
b6
y6
b7−NH3
b7
y7−NH3
y7
b8−H2O
b8
y8
b9−H2O
b9
y9
b10
y10−NH3
y10
b11

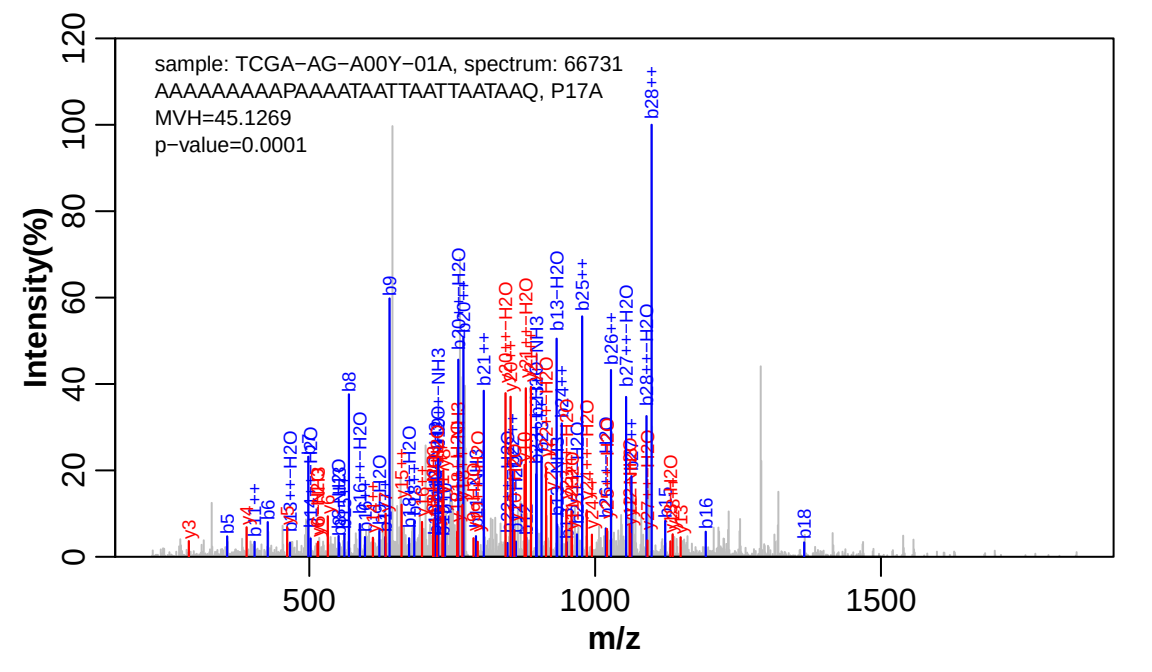

sample: TCGA−AG−A00C−01A, spectrum: 87047
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=90.6450
p−value=0.0001
y31++++
b30++++−H2O
y30++++
y29++++−H2O
y31++++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

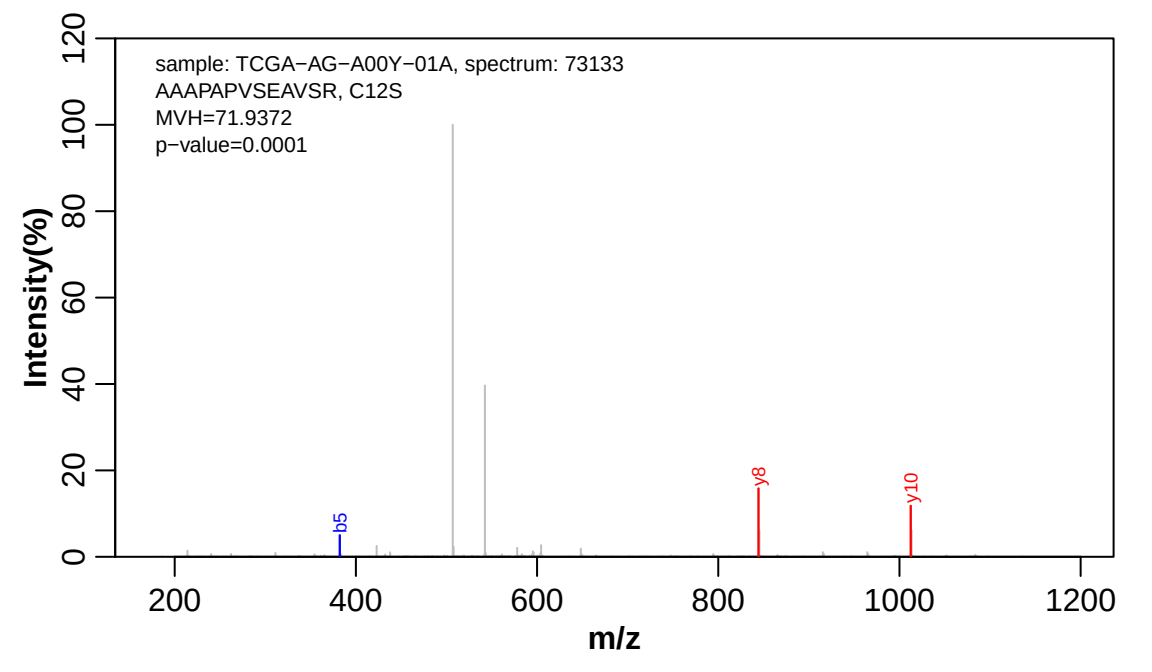

sample: TCGA−AG−A00C−01A, spectrum: 85390
TLSGGLAVNGPR, P7A
MVH=52.2221
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
y3
y4
b6−NH3
b6−H2O
y5−NH3
y5
b7−H2O
b7
y6
b8−H2O
b8
y7
y8
b9
y9
b10
y10

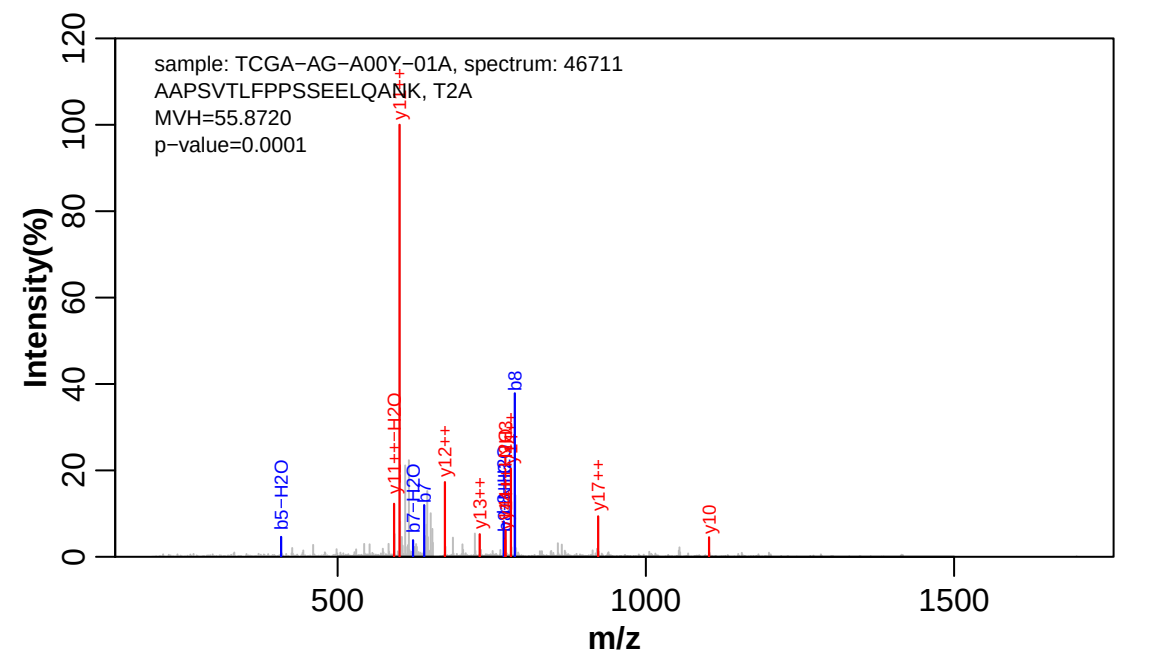

sample: TCGA−AG−A00C−01A, spectrum: 59537
TTPLEAASSGAR, T11A
MVH=35.4779
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y7
y8
b9−H2O
y9
y10

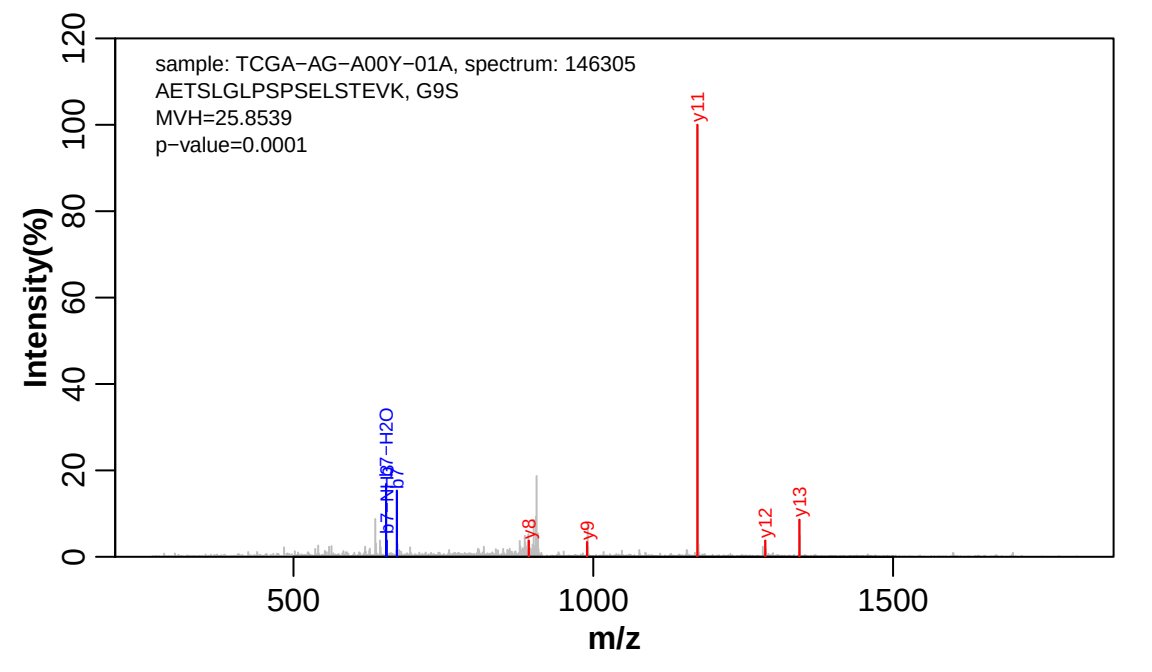

sample: TCGA−AG−A00C−01A, spectrum: 34279
VEHWGLDKPLLK, Q8K
MVH=67.8995
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2/y4++
y2
b5++
b3−H2O
b3−NH3
b3
b4++
y3
b7++
y4
y6
y11++
b6
y6−NH3
b7−H2O
b7
b8
b4

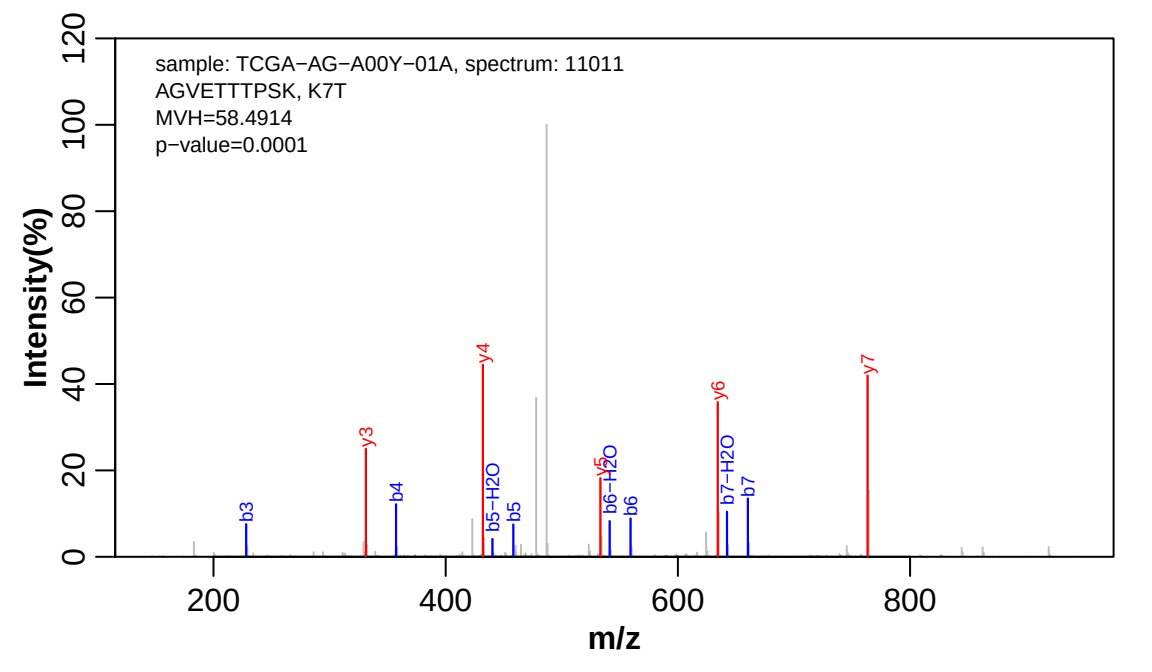

sample: TCGA−AG−A00C−01A, spectrum: 93783
VPSFETAEGLGAELK, T12A
MVH=50.0430
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3−H2O
b4
y4−NH3
y4
y5
b5−H2O
b5
b6−H2O
y7−H2O
y7
b7−NH3
b7
y8−NH3
y8
b8−H2O
b8
y9
y10
y10−NH3
b10
y11
y11−NH3
y12
b13
y13−H2O
y13
b14
y14

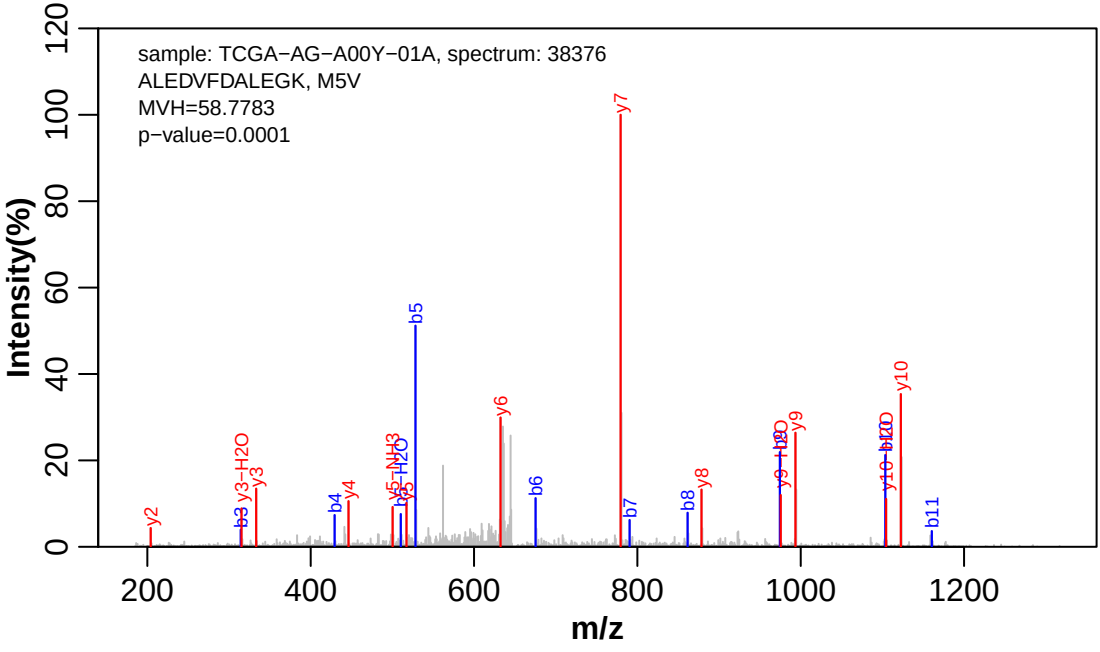

sample: TCGA−AG−A00Y−01A, spectrum: 66731
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=45.1269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b9
b8
b25++
b13−H2O
b20++−H2O
b21++
b26++
b27++−H2O
b28++−H2O
b16
b18
y3
b5
b6

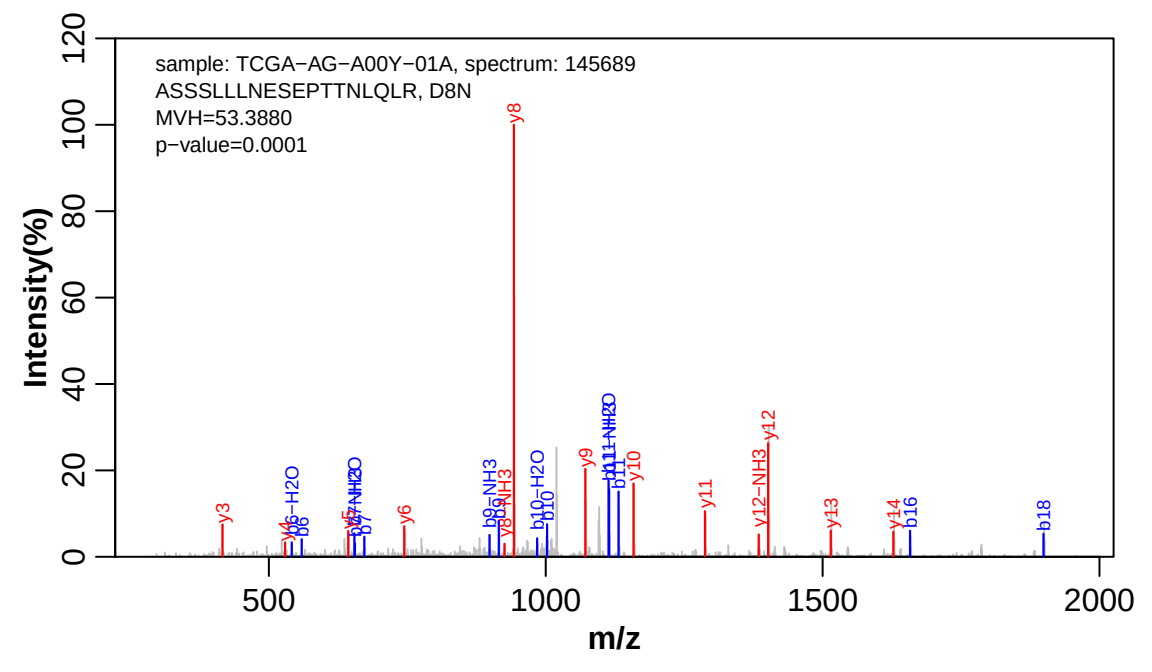

sample: TCGA−AG−A00Y−01A, spectrum: 73133
AAAPAPVSEAVSR, C12S
MVH=71.9372
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

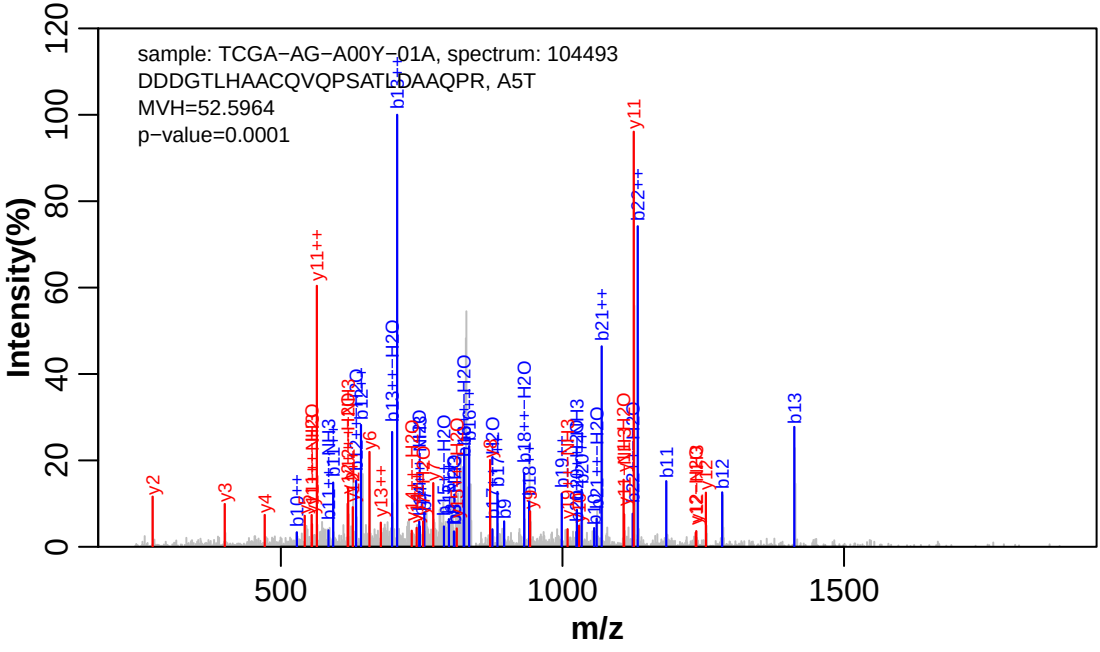

sample: TCGA−AG−A00Y−01A, spectrum: 46711
AAPSVTLFPPSSEELQANK, T2A
MVH=55.8720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
y11++−H2O
y12++
y13++
y17++
y10
b5−H2O
b7−H2O
b7
b8

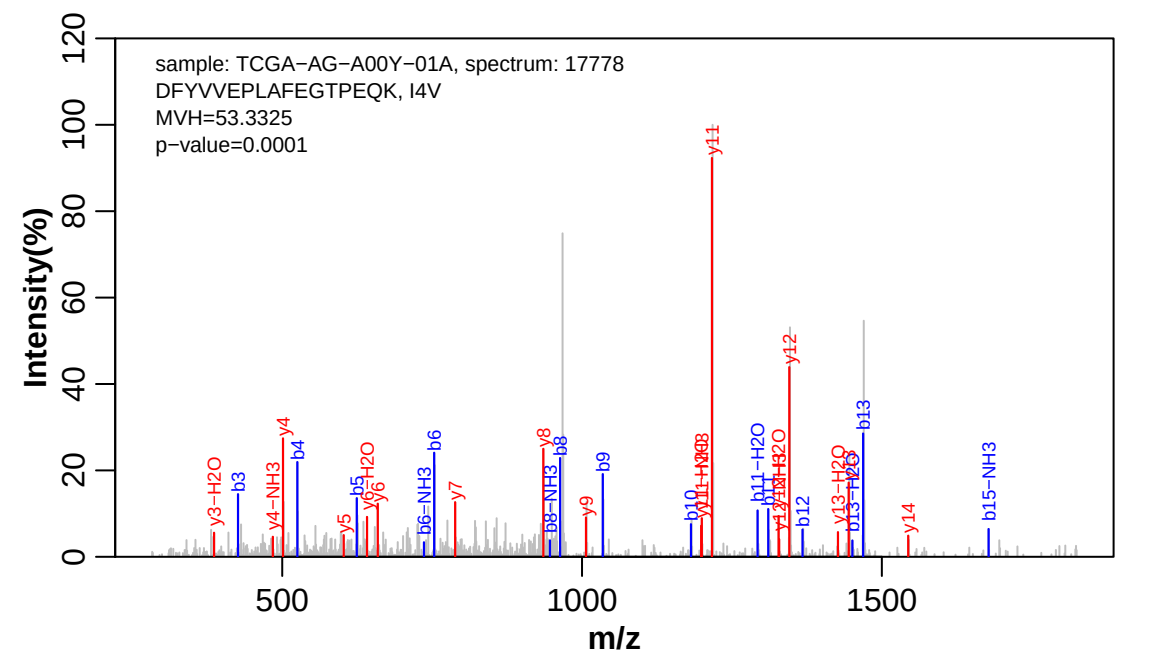

sample: TCGA−AG−A00Y−01A, spectrum: 146305
AETSLGLPSPSELSTEVK, G9S
MVH=25.8539
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
b7−NH3
b7−H2O
b7
y8
y9
y12
y13

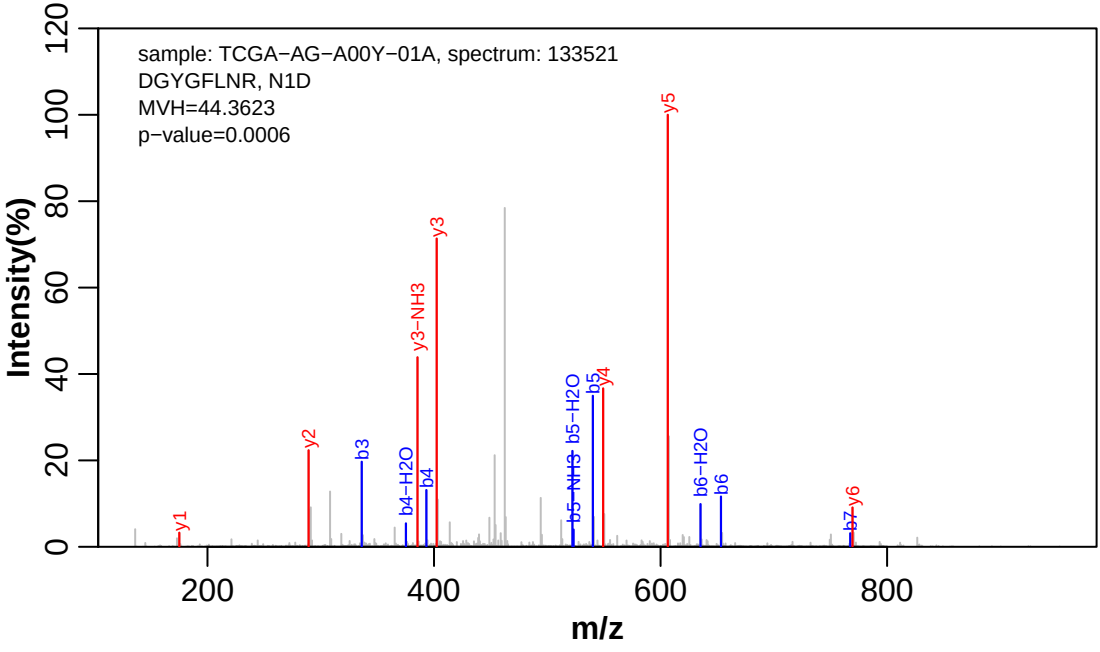

sample: TCGA−AG−A00Y−01A, spectrum: 11011
AGVETTTPSK, K7T
MVH=58.4914
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7

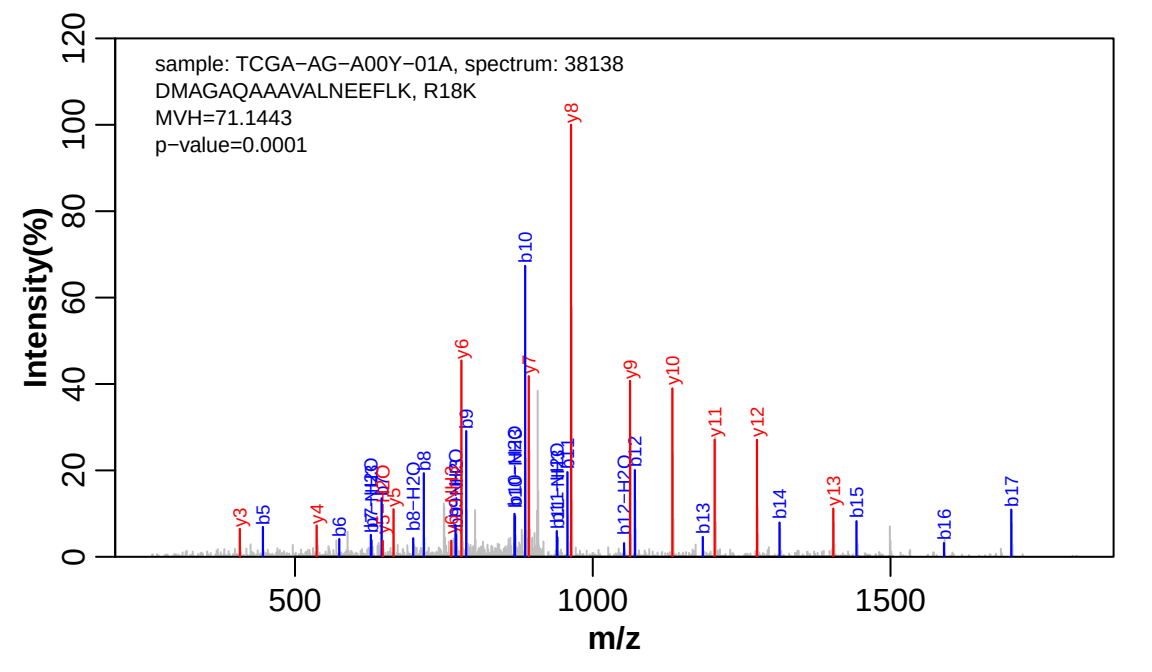

sample: TCGA−AG−A00Y−01A, spectrum: 38376
ALEDVFDALEGK, M5V
MVH=58.7783
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
y5−NH3
b5−H2O
b5
y6
b6
y7
b7
b8
y8
y9−H2O
y9
y10−H2O
y10
b11

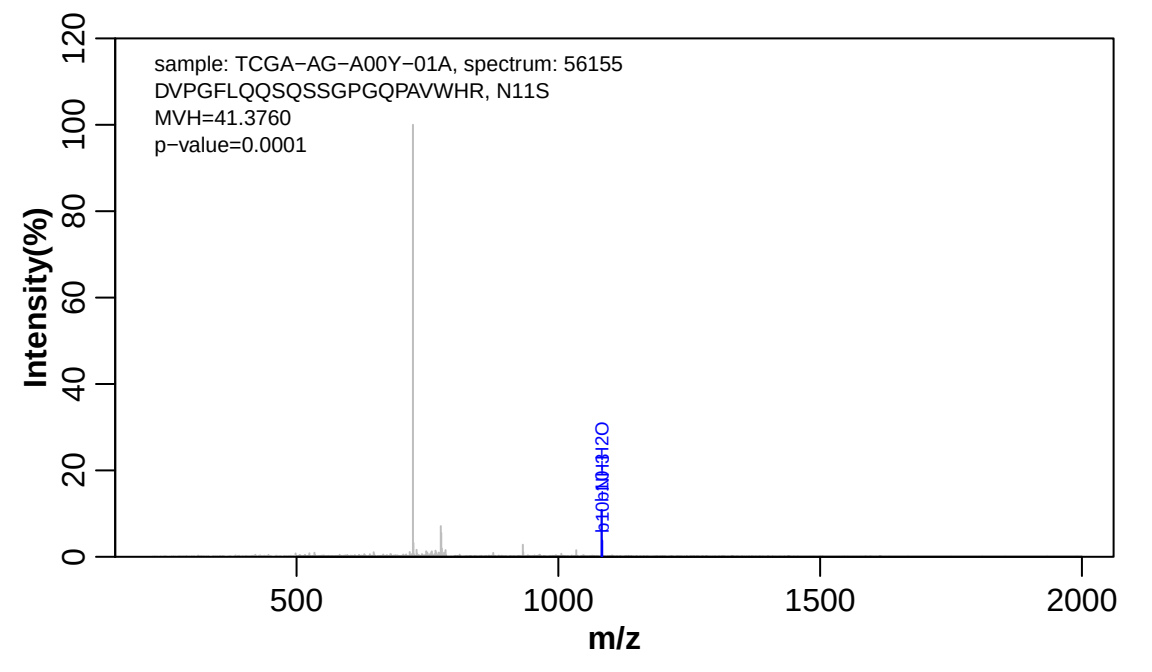

sample: TCGA−AG−A00Y−01A, spectrum: 145689
ASSSLLLNESEPTTNLQLR, D8N
MVH=53.3880
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y8
y6
y9
y10
y11
y12
y13
y14
b16
b18

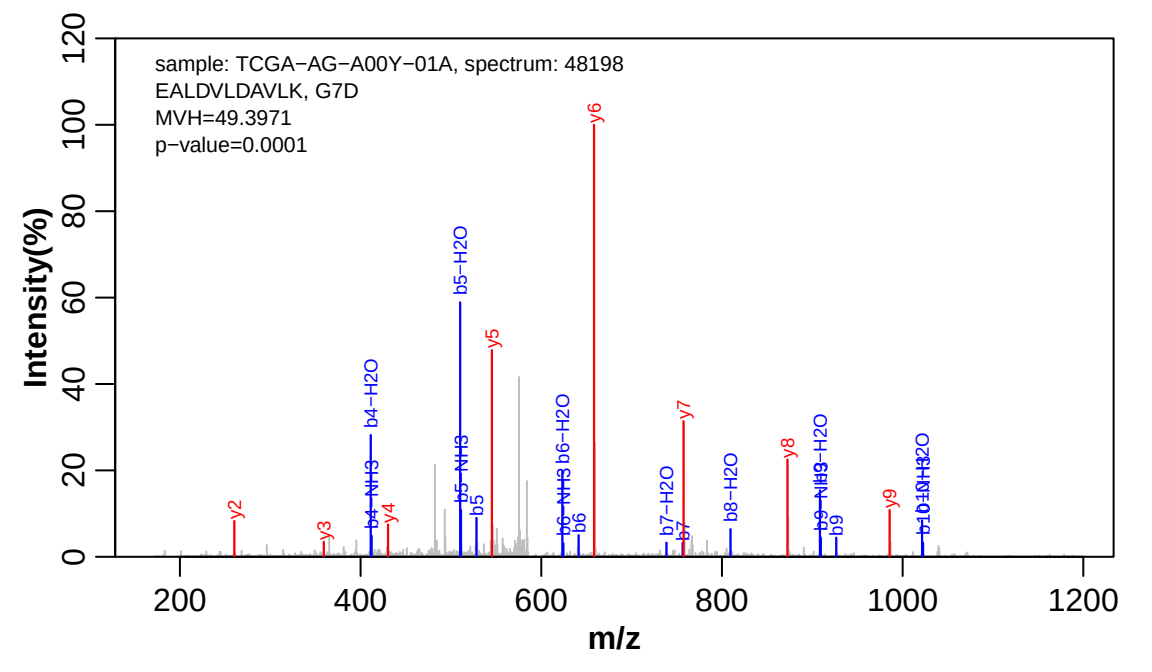

sample: TCGA−AG−A00Y−01A, spectrum: 104493
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=52.5964
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
b10++
y11++
b11++−NH3
b11++−H2O
y6
y13++
b13++−H2O
b15++−H2O
b16++−H2O
b18++−H2O
b21++
b11
b12
b13
y11
b22++

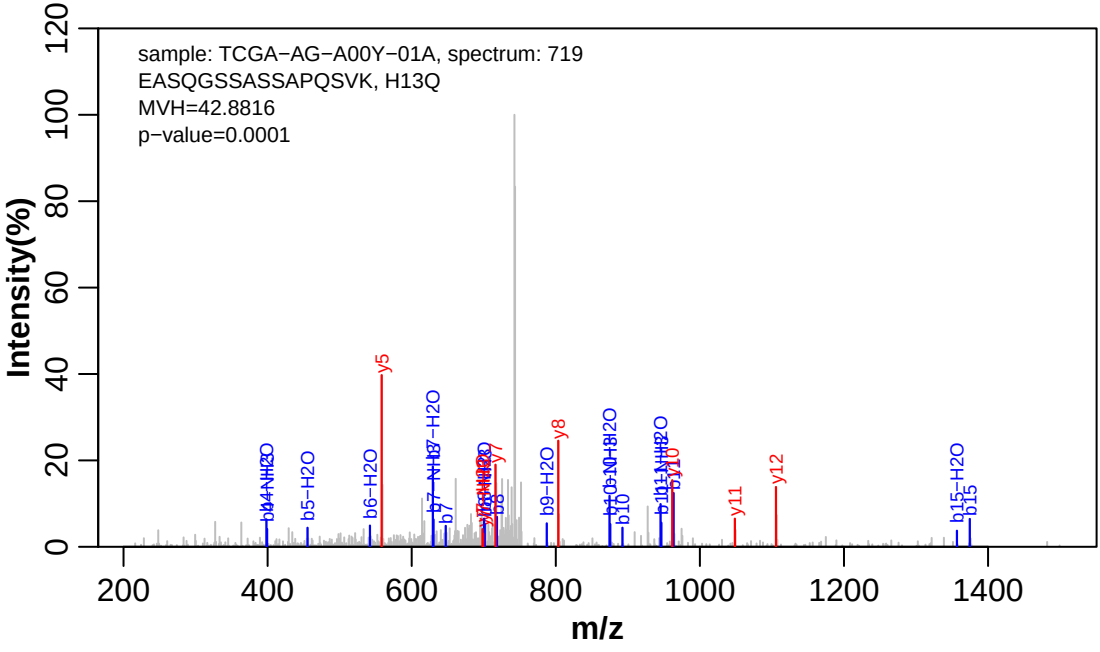

sample: TCGA−AG−A00Y−01A, spectrum: 17778
DFYVVEPLAFEGTPEQK, I4V
MVH=53.3325
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3−H2O
b3
y4−NH3
y4
b4
y5
b5
y6
y6−H2O
b6−NH3
b6
y7
y8
b8−NH3
b8
y9
b9
b10
y11
y11−H2O
b11−H2O
b11
y12
y12−H2O
b12
y13−H2O
b13−H2O
b13
y14
b15−NH3

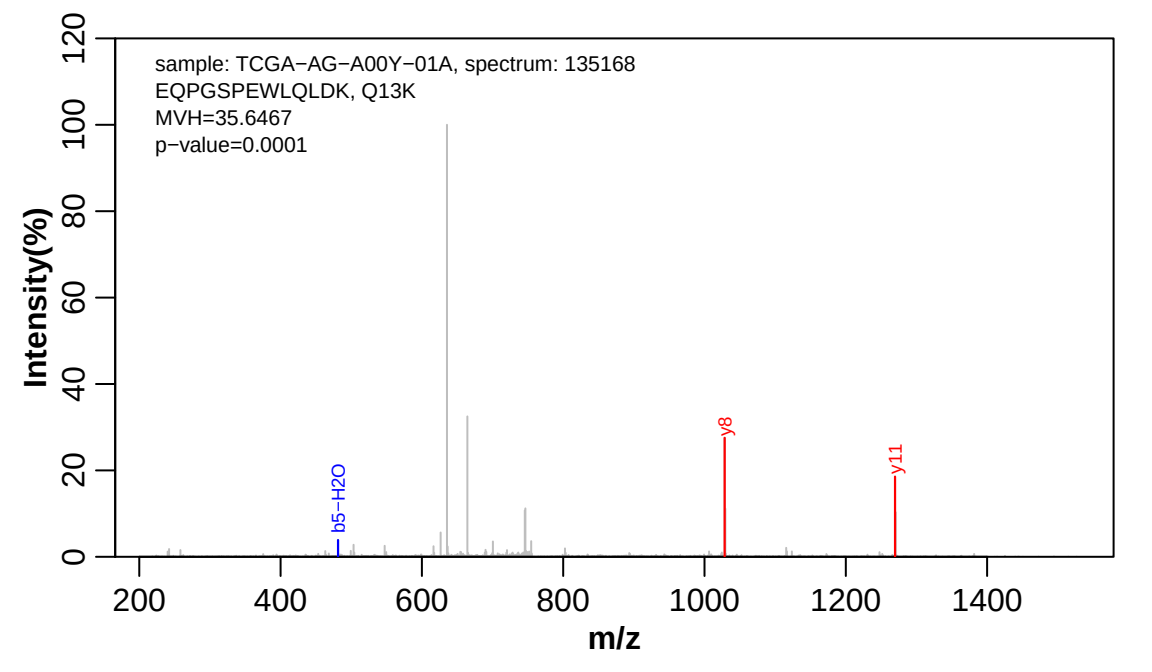

sample: TCGA−AG−A00Y−01A, spectrum: 133521
DGYGFLNR, N1D
MVH=44.3623
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

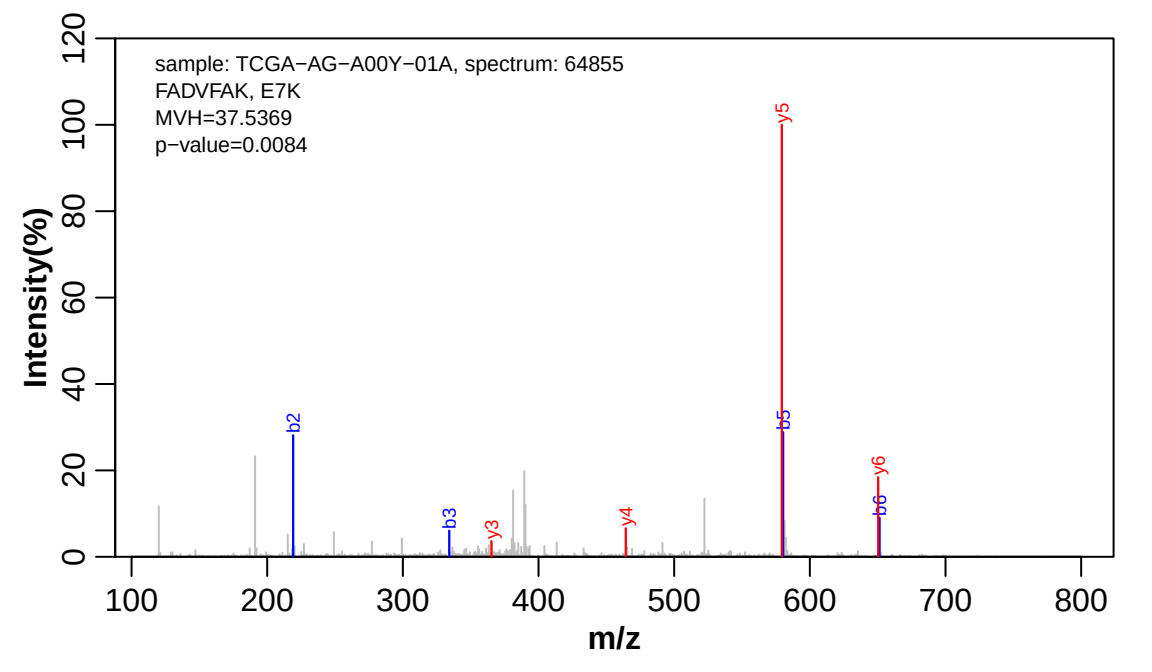

sample: TCGA−AG−A00Y−01A, spectrum: 38138
DMAGAQAAAVALNEEFLK, R18K
MVH=71.1443
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
b5
y4
b6
y8
b10
y6
y7
b9
y9
y10
y11
y12
b12
b12−H2O
b13
b14
y13
b15
b16
b17
b8
b8−H2O

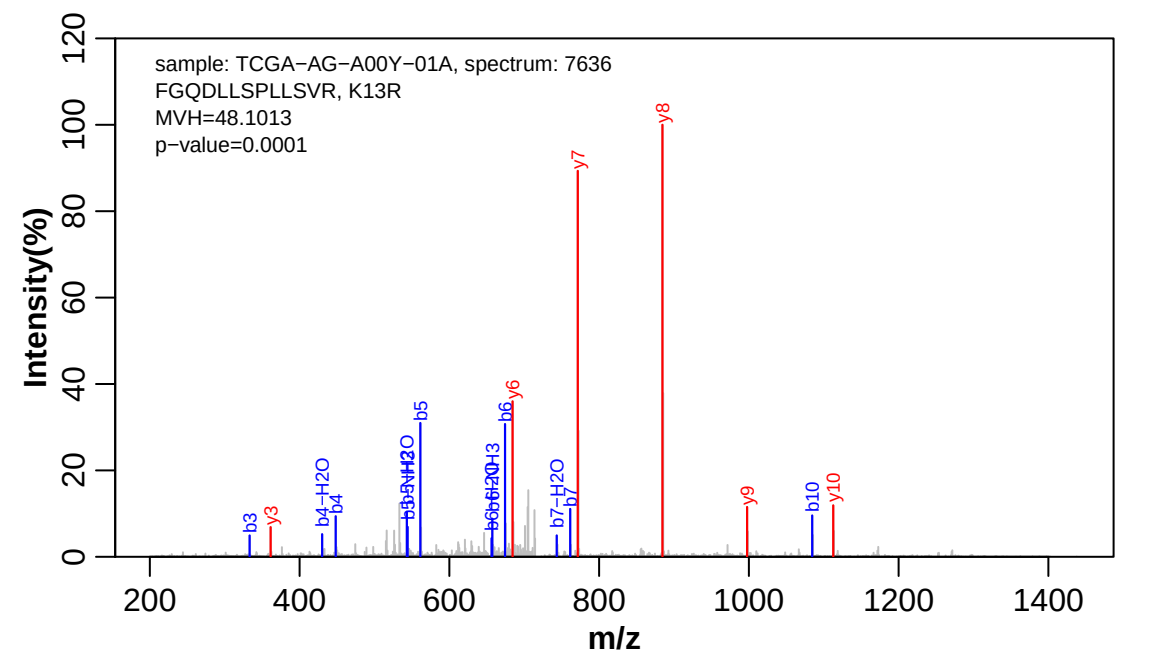

sample: TCGA−AG−A00Y−01A, spectrum: 56155
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=41.3760
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

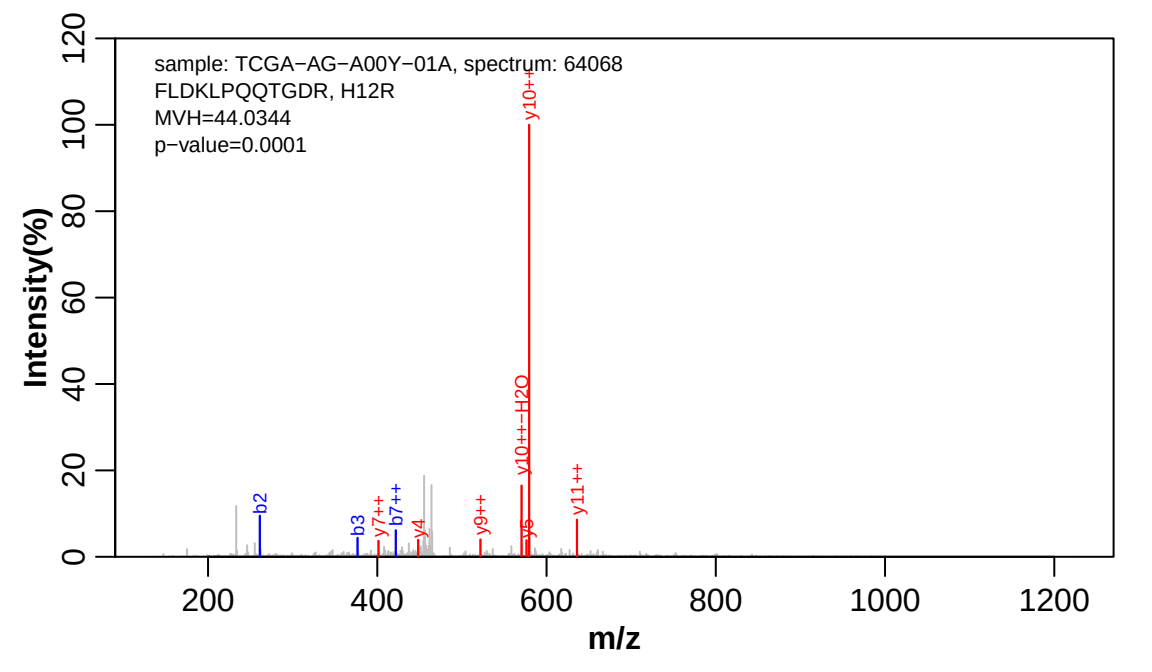

sample: TCGA−AG−A00Y−01A, spectrum: 48198
EALDVLDAVLK, G7D
MVH=49.3971
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−NH3
b4−H2O
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−H2O
y8
b9−NH3
b9−H2O
b9
y9
b10−NH3
b10−H2O

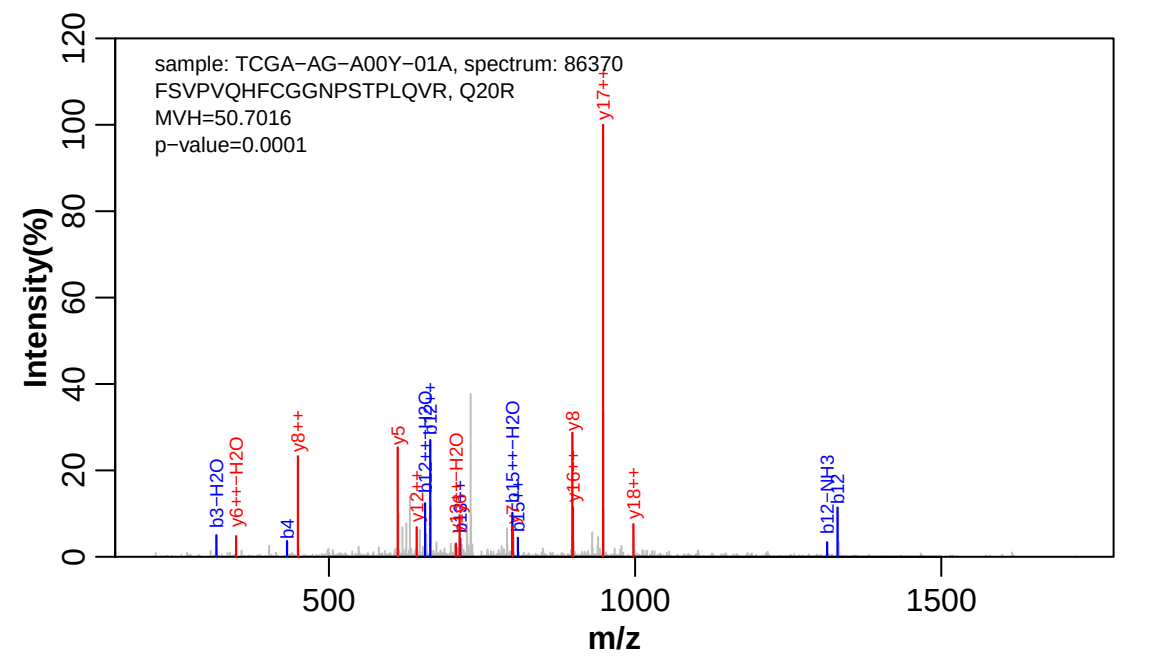

sample: TCGA−AG−A00Y−01A, spectrum: 719
EASQGSSASSAPQSVK, H13Q
MVH=42.8816
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y5
y8
y7
y11
y12
b5−H2O
b6−H2O
b9−H2O
b10
b15−H2O
b15

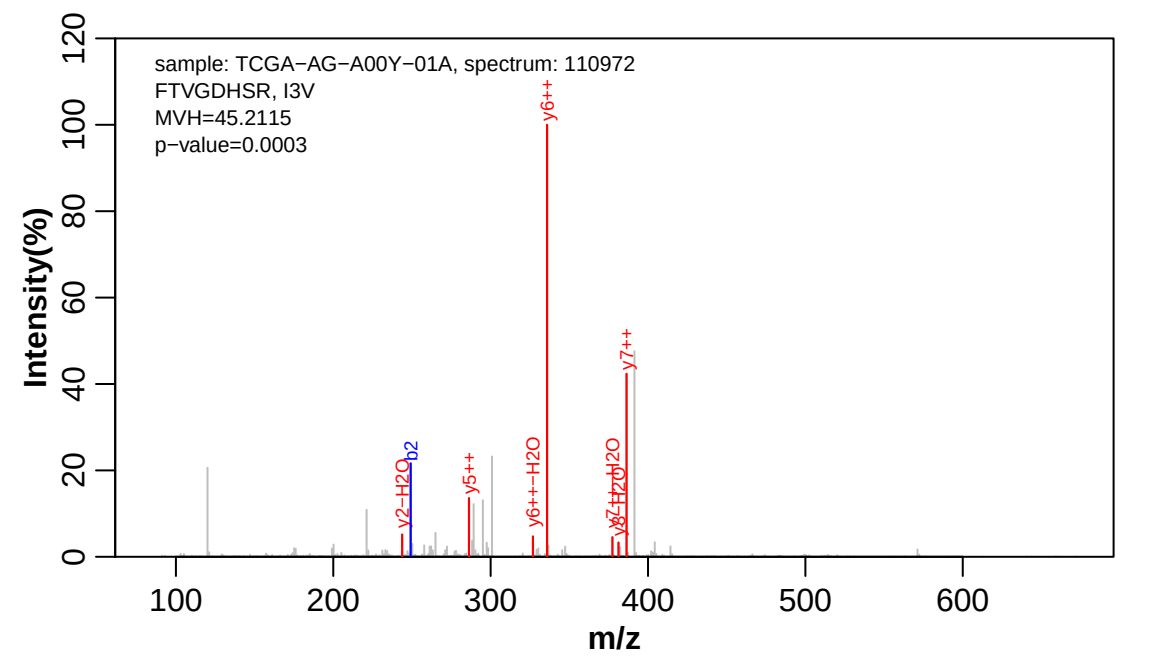

sample: TCGA−AG−A00Y−01A, spectrum: 135168
EQPGSPEWLQLDK, Q13K
MVH=35.6467
p−value=0.0001
b5−H2O
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

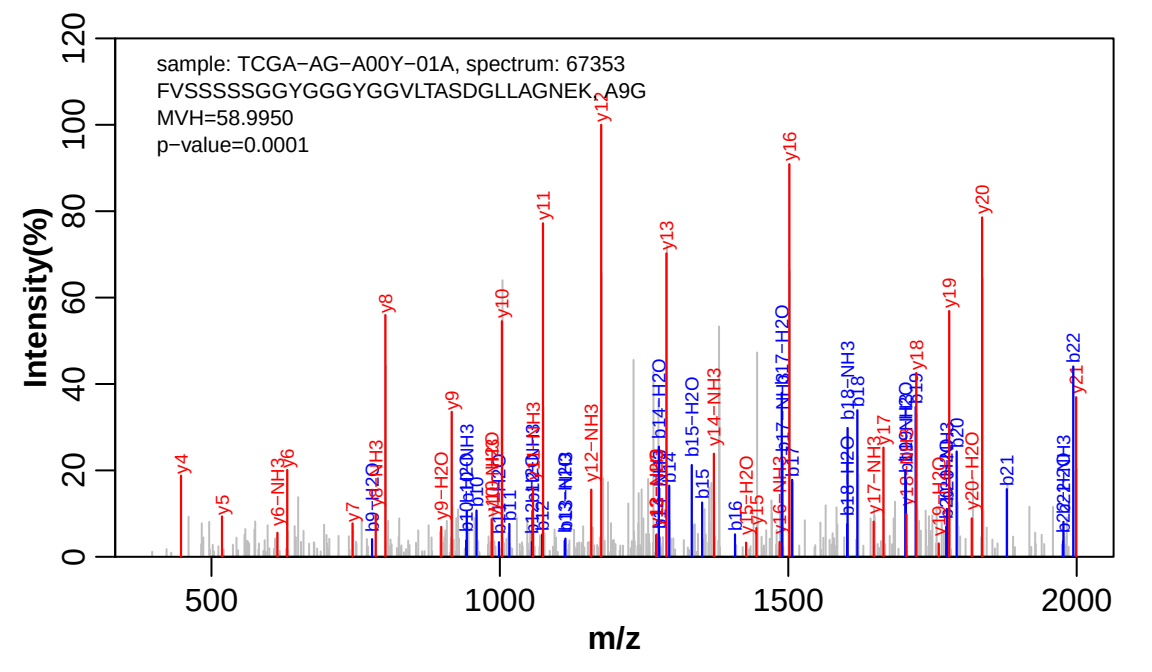

sample: TCGA−AG−A00Y−01A, spectrum: 64855
FADVFAK, E7K
MVH=37.5369
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

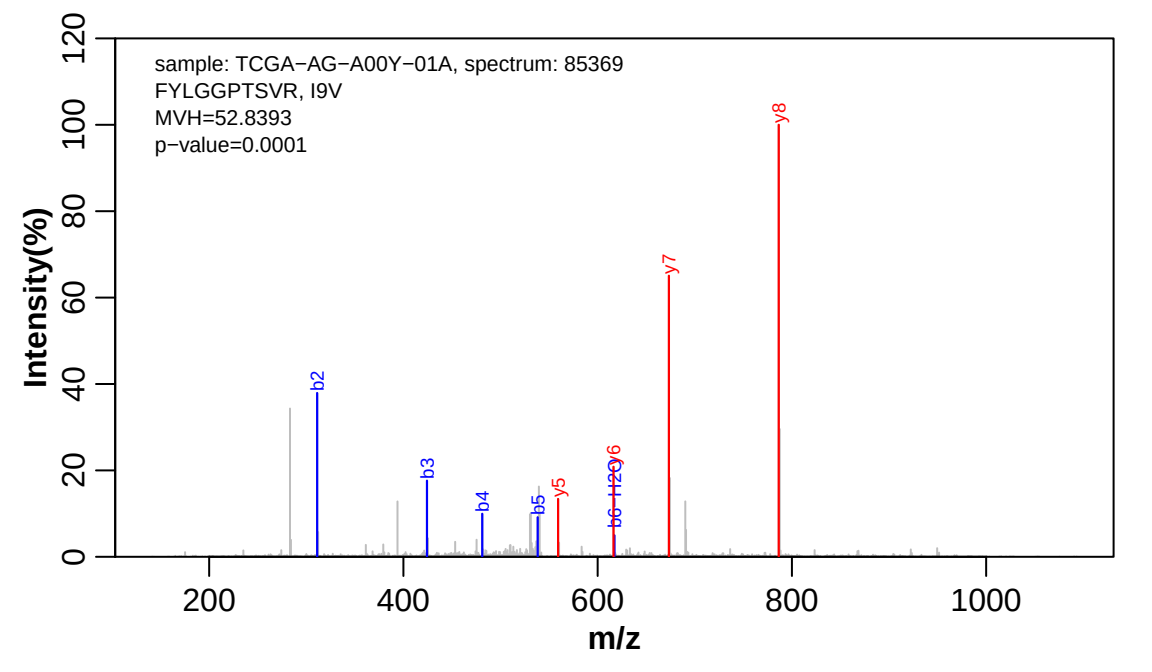

sample: TCGA−AG−A00Y−01A, spectrum: 7636
FGQDLLSPLLSVR, K13R
MVH=48.1013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
b6
y6
b7−H2O
b7
y7
y8
y9
b10
y10

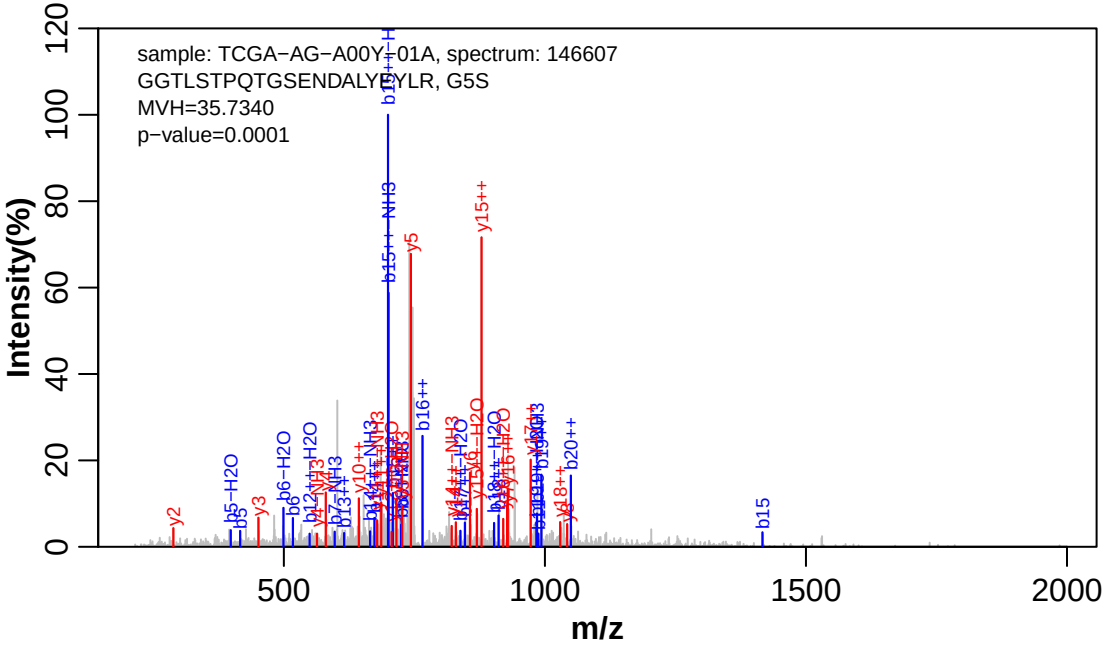

sample: TCGA−AG−A00Y−01A, spectrum: 64068
FLDKLPQQTGDR, H12R
MVH=44.0344
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y7++
b7++
y4
y9++
y10++
y10++−H2O
y5
y11++

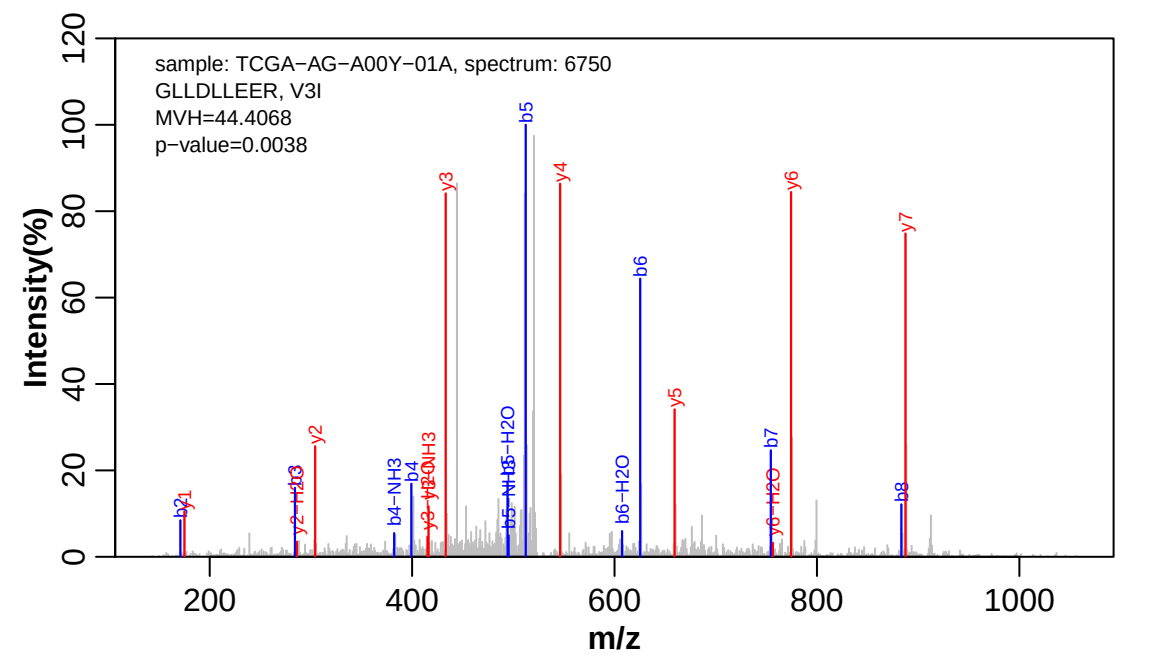

sample: TCGA−AG−A00Y−01A, spectrum: 86370
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=50.7016
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y6++−H2O
b4
y8++
y5
y12++
b12++
b12++
y13++−H2O
y13++−H2O
b15++−H2O
y16++
y8
y17++
y18++
b12−NH3
b12

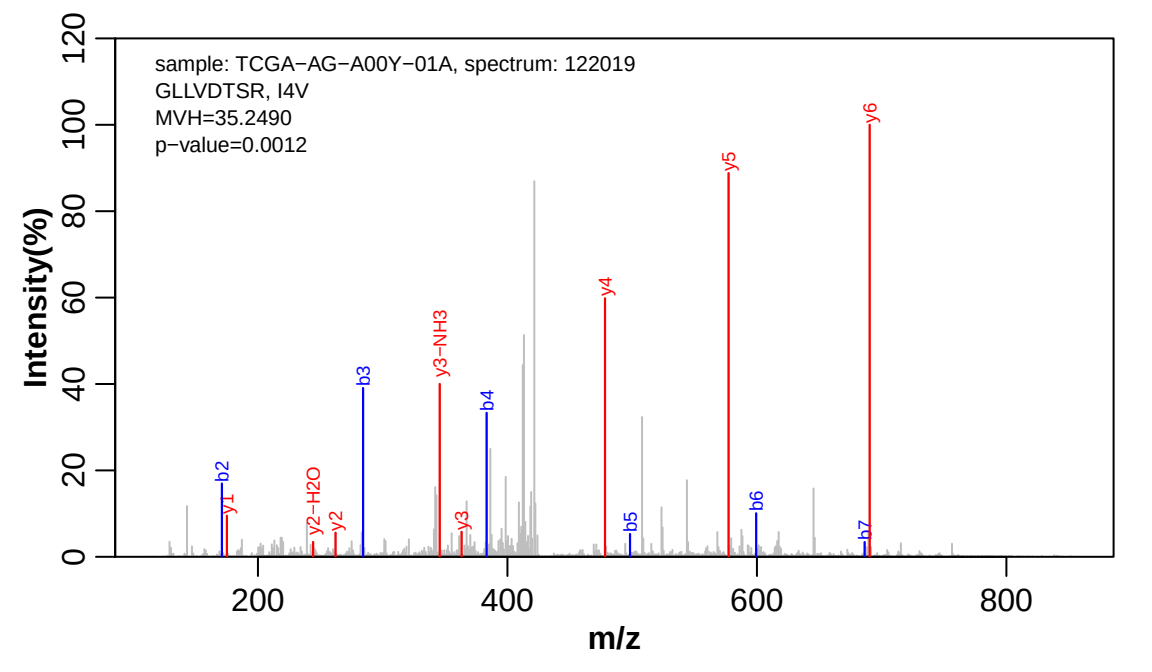

sample: TCGA−AG−A00Y−01A, spectrum: 110972
FTVGDHSR, I3V
MVH=45.2115
p−value=0.0003
Intensity(%)
m/z
y6++
y7++
b2
y2−H2O
y5++
y6++−H2O
y7++−H2O
y8−H2O
0
20
40
60
80
100
120
100
200
300
400
500
600

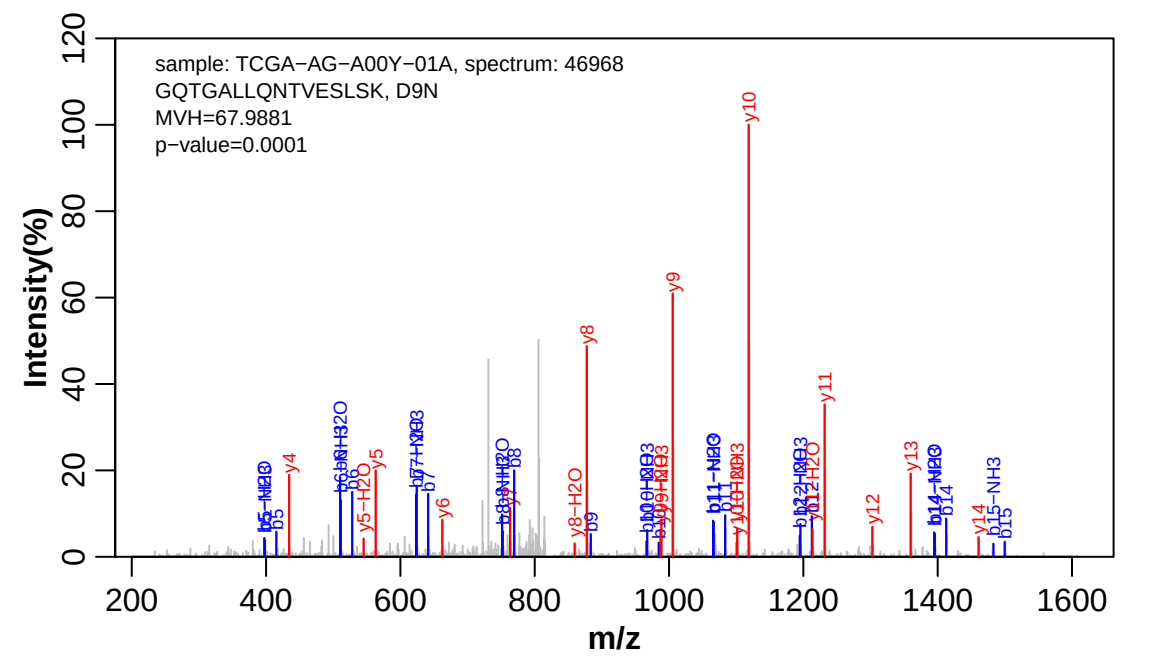

sample: TCGA−AG−A00Y−01A, spectrum: 67353
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=58.9950
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y12
y16
y11
y13
y20
y8
y10
y19
y9
y18
y4
y5
y6
y6−NH3
y7
b9−H2O−NH3
y9−H2O
b10−H2O
b10−NH3
b11
b12
b13−NH3
b13−H2O
y12−NH3
b14−H2O
b15−H2O
y14−NH3
b16
y15−H2O
b17
b17−H2O
b18−H2O
b18−NH3
b18
y17−NH3
y17
y20−H2O
b20
b21
b22
y21

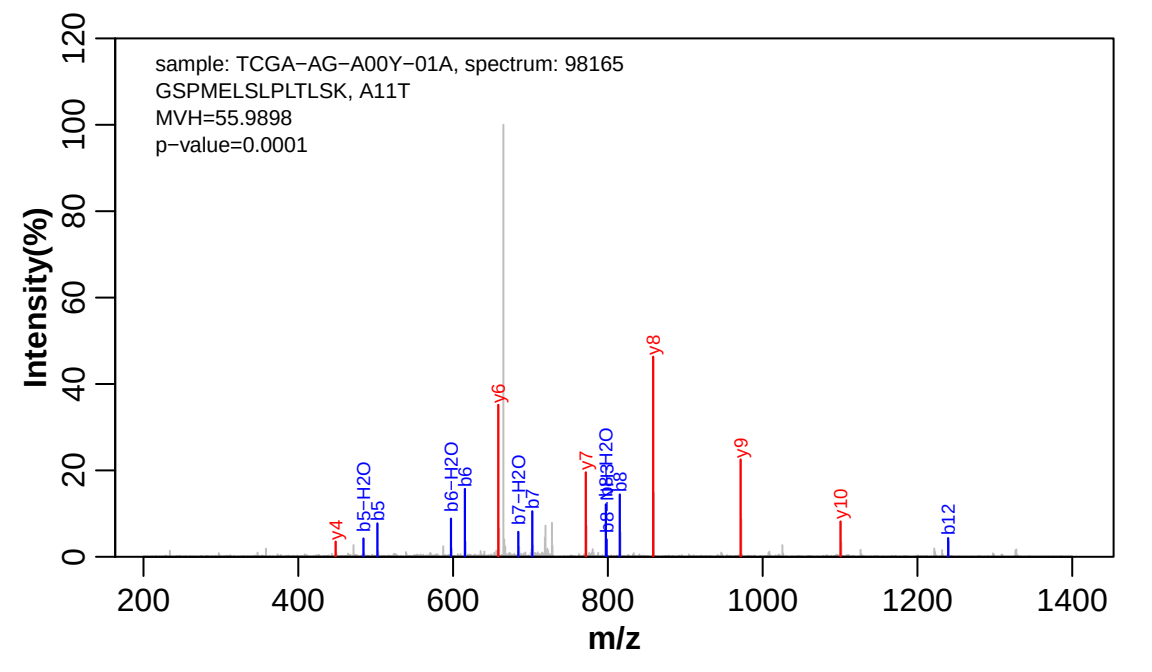

sample: TCGA−AG−A00Y−01A, spectrum: 85369
FYLGGPTSVR, I9V
MVH=52.8393
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

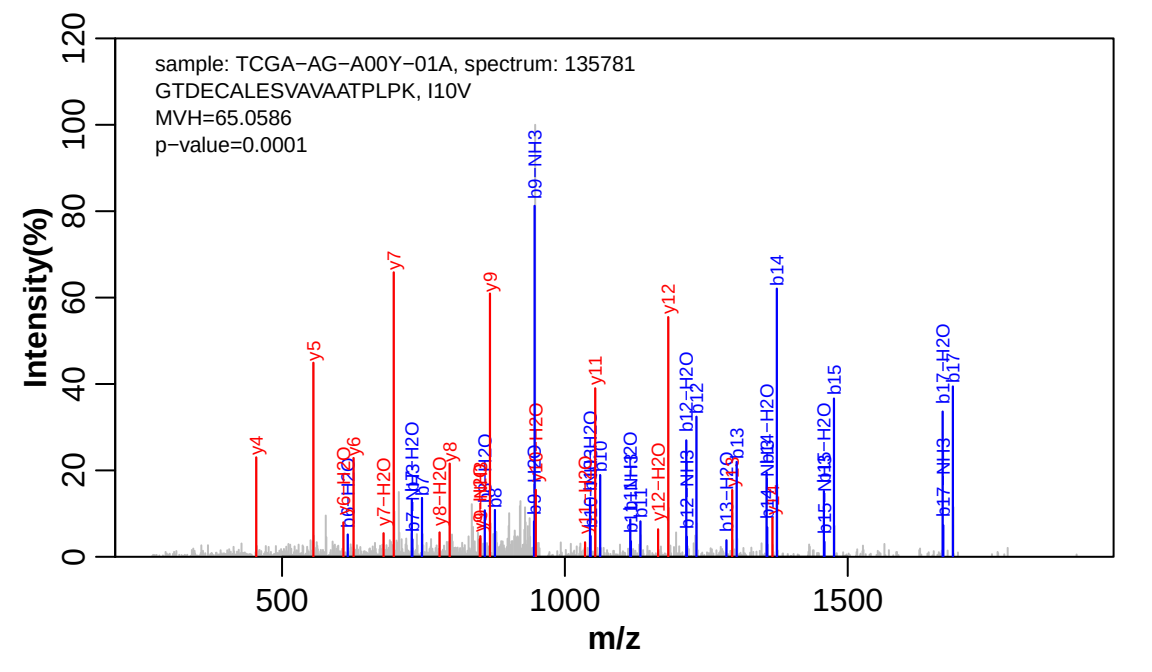

sample: TCGA−AG−A00Y−01A, spectrum: 146607
GGTLSTPQTGSENDALYEYLR, G5S
MVH=35.7340
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b15++
b15++−NH3
y5
y15++
b16++
b20++
b15

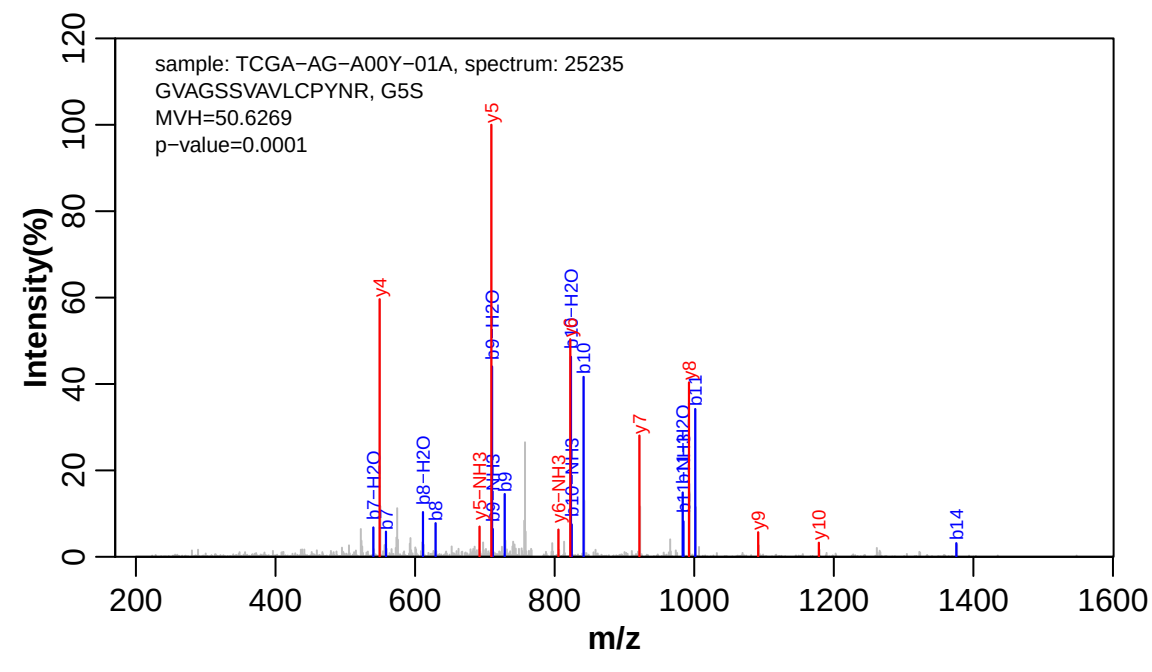

sample: TCGA−AG−A00Y−01A, spectrum: 6750
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b1
y1
y2
y2−H2O
y2−NH3
b4−NH3
b4
y3−H2O
y3−NH3
b5
b5−NH3
b5−H2O
y3
y4
b6
b6−H2O
y5
y6
b7
y6−H2O
y7
b8

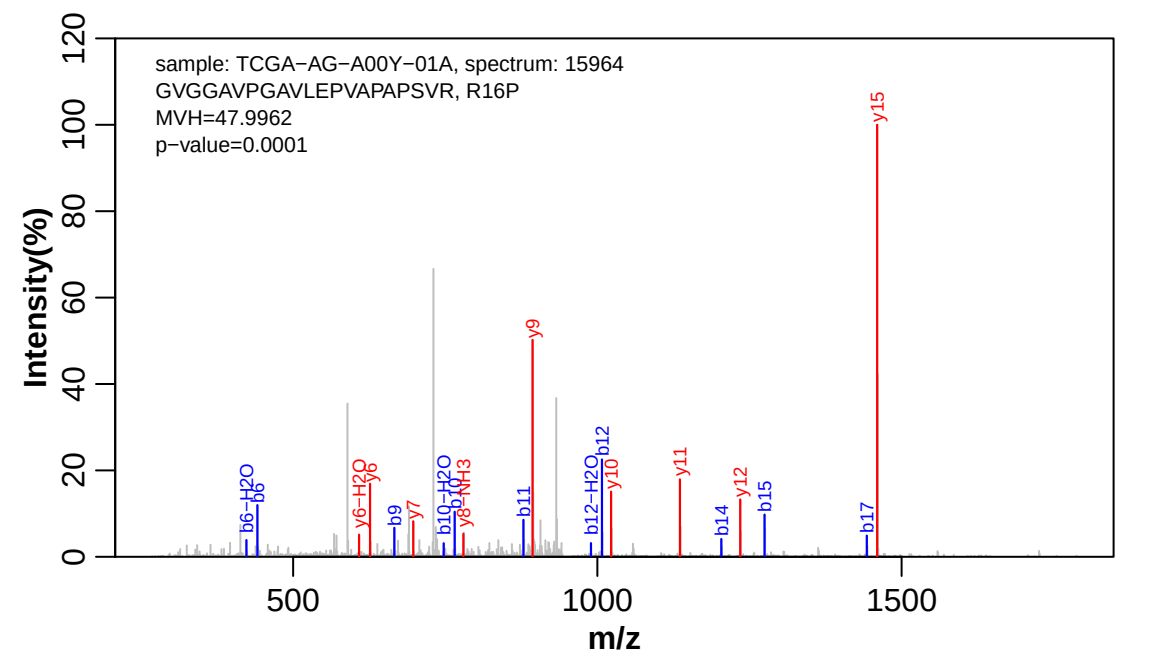

sample: TCGA−AG−A00Y−01A, spectrum: 122019
GLLVDTSR, I4V
MVH=35.2490
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y6
y5
y4
y3−NH3
b3
b4
b2
y1
y2−H2O
y2
y3
b5
b6
b7

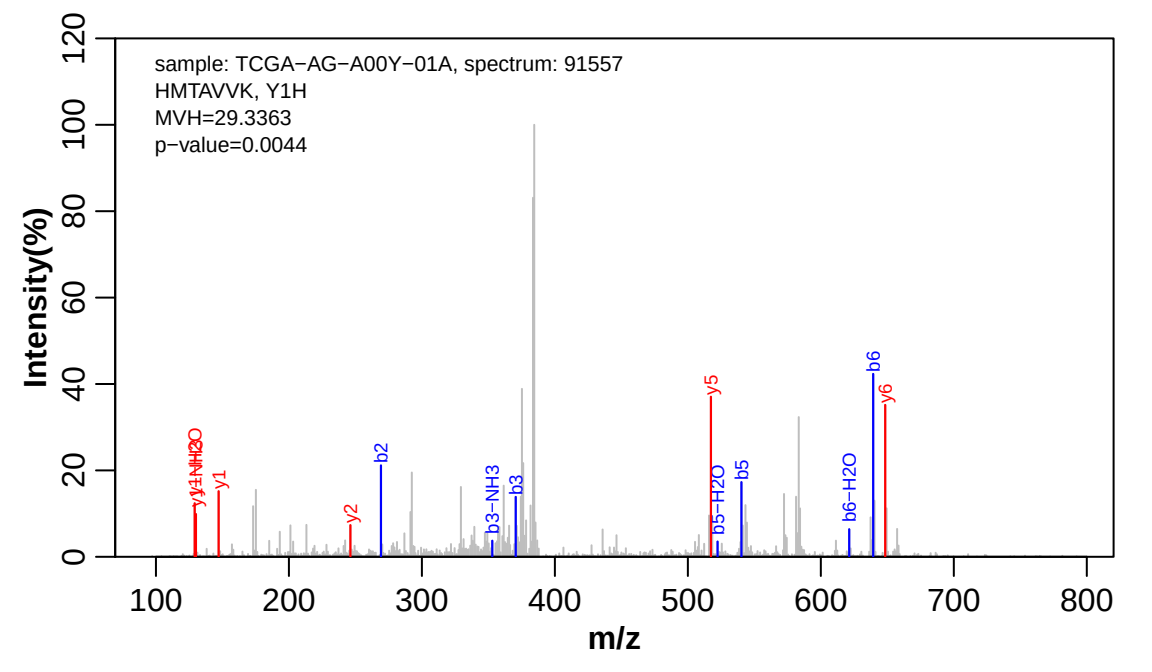

sample: TCGA−AG−A00Y−01A, spectrum: 46968
GQTGALLQNTVESLSK, D9N
MVH=67.9881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
y4
y5
y6
y8−H2O
y5−H2O
y5−NH3
y10−H2O
y10−NH3
y11−H2O
y11−NH3
y13−H2O
y13−NH3
y14−H2O
y14−NH3
b5
b6
b7
b8
b9
b11
b14
b15
b5−H2O
b5−NH3
b6−H2O
b6−NH3
b7−H2O
b7−NH3
b8−H2O
b8−NH3
b9−H2O
b9−NH3
b11−H2O
b11−NH3
b14−H2O
b14−NH3
b15−NH3

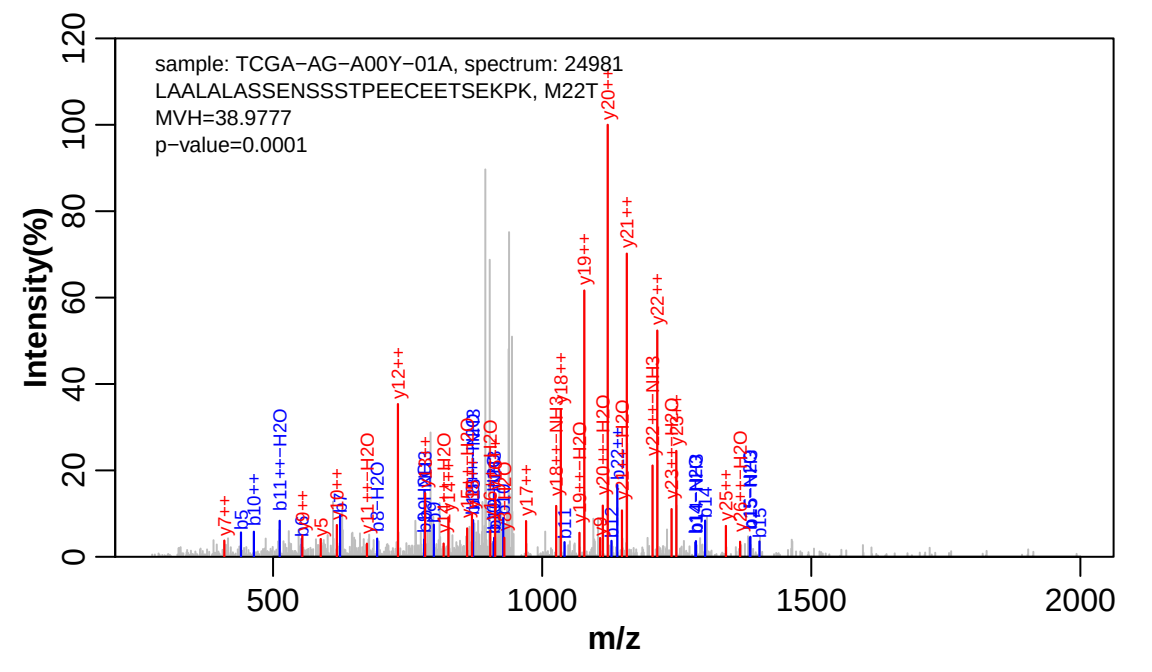

sample: TCGA−AG−A00Y−01A, spectrum: 98165
GSPMELSLPLTLSK, A11T
MVH=55.9898
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
y4
b5−H2O
b5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9
y10
b12

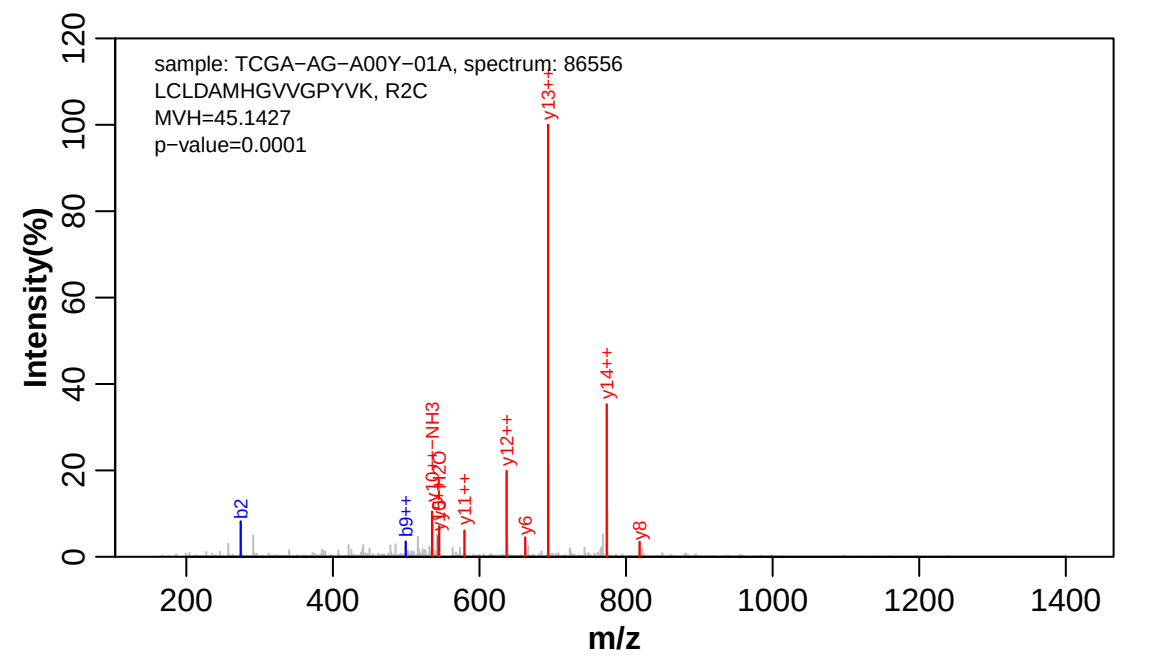

sample: TCGA−AG−A00Y−01A, spectrum: 135781
GTDECALESVAVAATPLPK, I10V
MVH=65.0586
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y9
y11
y12
b9−NH3
b14
b15
b17
b17−H2O
b17−NH3
y7−H2O
y8−H2O
y12−H2O
b12−NH3
b12−H2O
b13−H2O
b15−NH3
b15−H2O

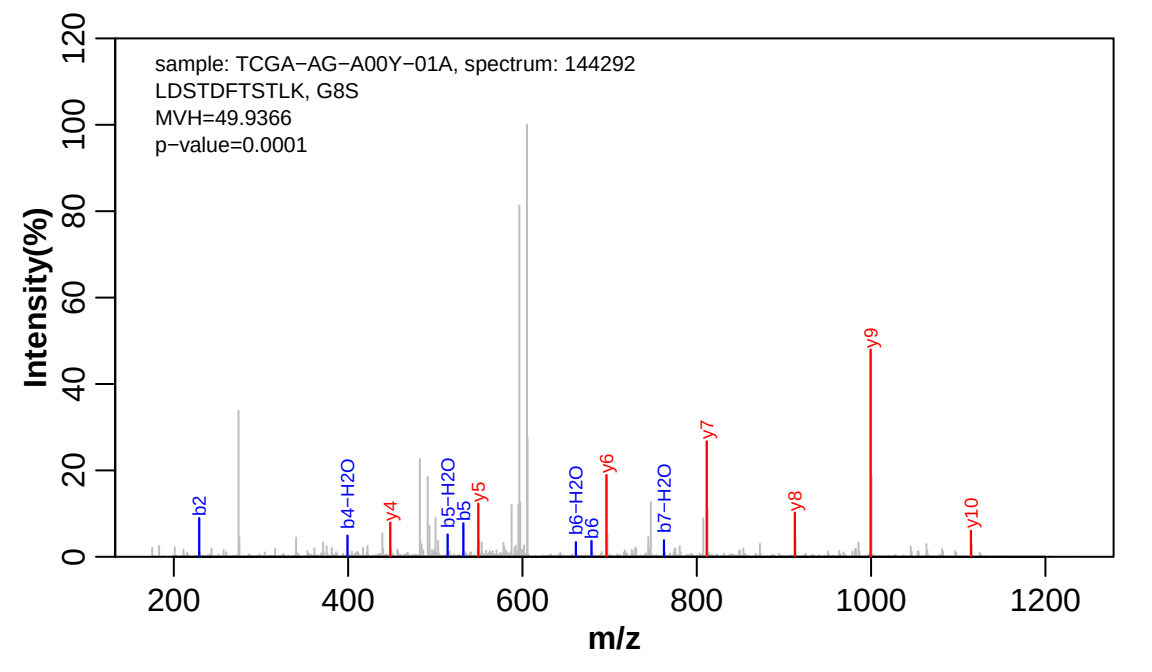

sample: TCGA−AG−A00Y−01A, spectrum: 25235
GVAGSSVAVLCPYNR, G5S
MVH=50.6269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y4
b9−H2O
b10−H2O
b10
b10−NH3
y8
b12
y7
b7−H2O
b8−H2O
b7
b8
y5−NH3
b9
b9−NH3
y6−NH3
b11−H2O
y9
y10
b14

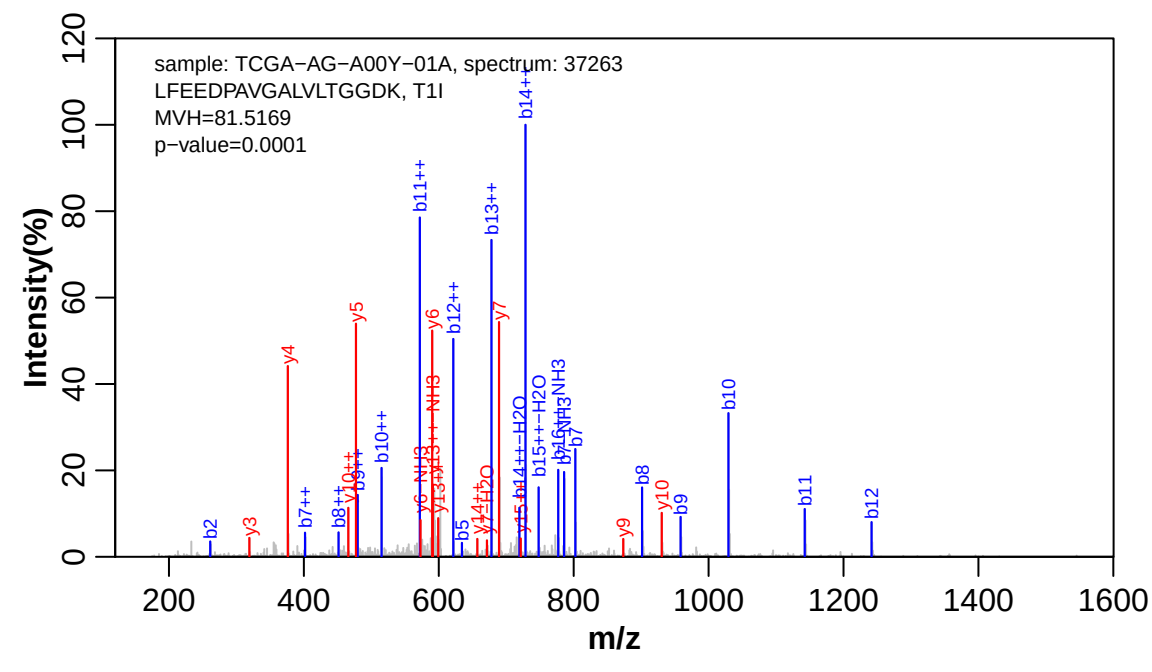

sample: TCGA−AG−A00Y−01A, spectrum: 15964
GVGGAVPGAVLEPVAPAPSVR, R16P
MVH=47.9962
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b6−H2O
b6
y6−H2O
y6
b9
y7
b10−H2O
b10
y8−NH3
b11
y9
b12−H2O
b12
y10
y11
b14
y12
b15
b17
y15

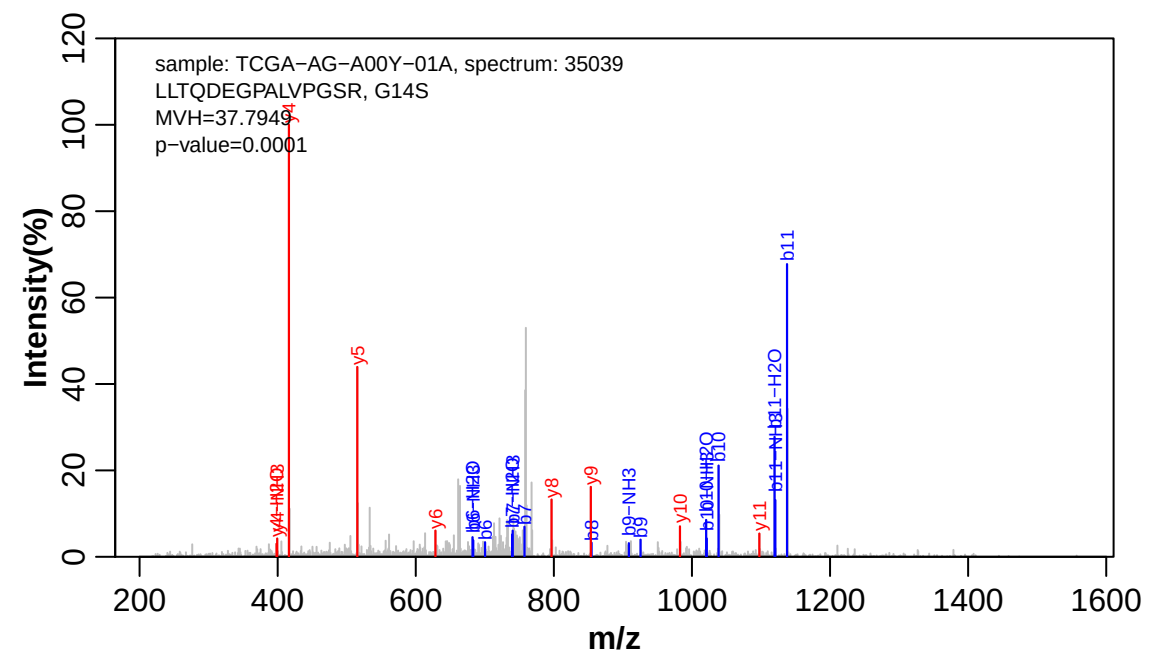

sample: TCGA−AG−A00Y−01A, spectrum: 91557
HMTAVVK, Y1H
MVH=29.3363
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1−NH2
y1−H2O
y1
y2
b2
b3−NH3
b3
y5
b5−H2O
b5
b6−H2O
b6
y6

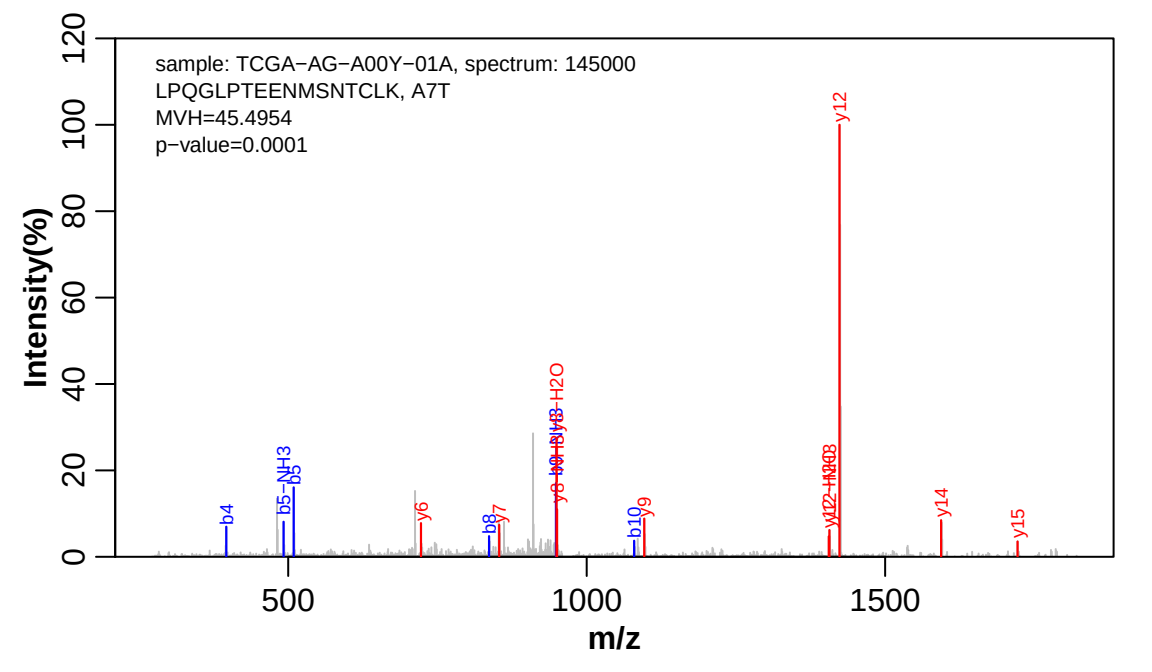

sample: TCGA−AG−A00Y−01A, spectrum: 24981
LAALALASSENSSSTPEECEETSEKPK, M22T
MVH=38.9777
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y20++
y21++
y22++
y12++
y19++
y18++
y22++−NH3
y18++−NH3
b11++−H2O
y22++−H2O
y20++−H2O
y23++−H2O
b8−H2O
y11++−H2O
b14−NH3
b15−NH3
y25++−H2O
y7++
b5
b10++
b6++
y5
y17++
y19++−H2O
y14++−H2O
y25++
b15

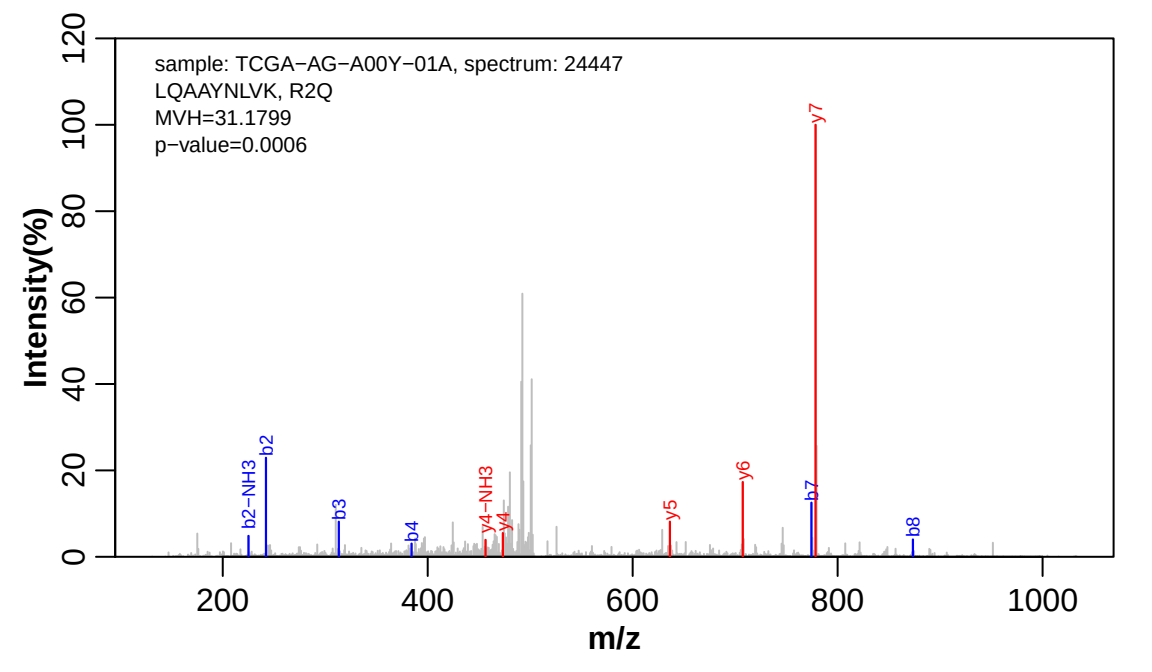

sample: TCGA−AG−A00Y−01A, spectrum: 86556
LCLDAMHGVVGPYVK, R2C
MVH=45.1427
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b9++
y13++
y14++
y12++
y11++
y6
y8
y7*0(1)−NH3
y7*0(1)

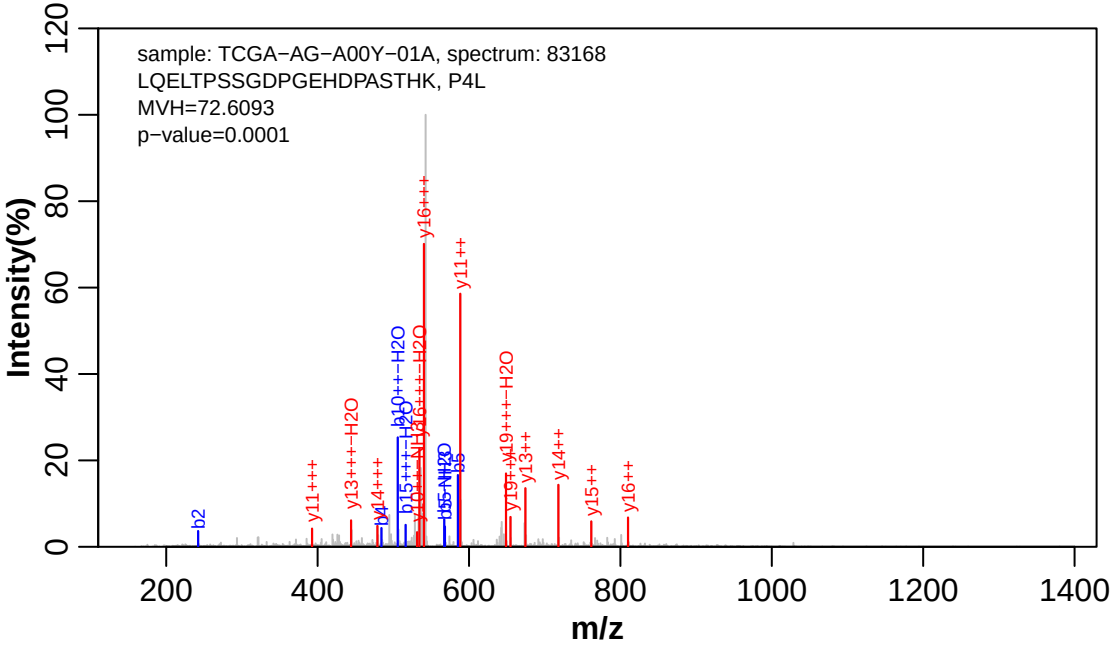

sample: TCGA−AG−A00Y−01A, spectrum: 144292
LDSTDFTSTLK, G8S
MVH=49.9366
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
y8
y9
y10

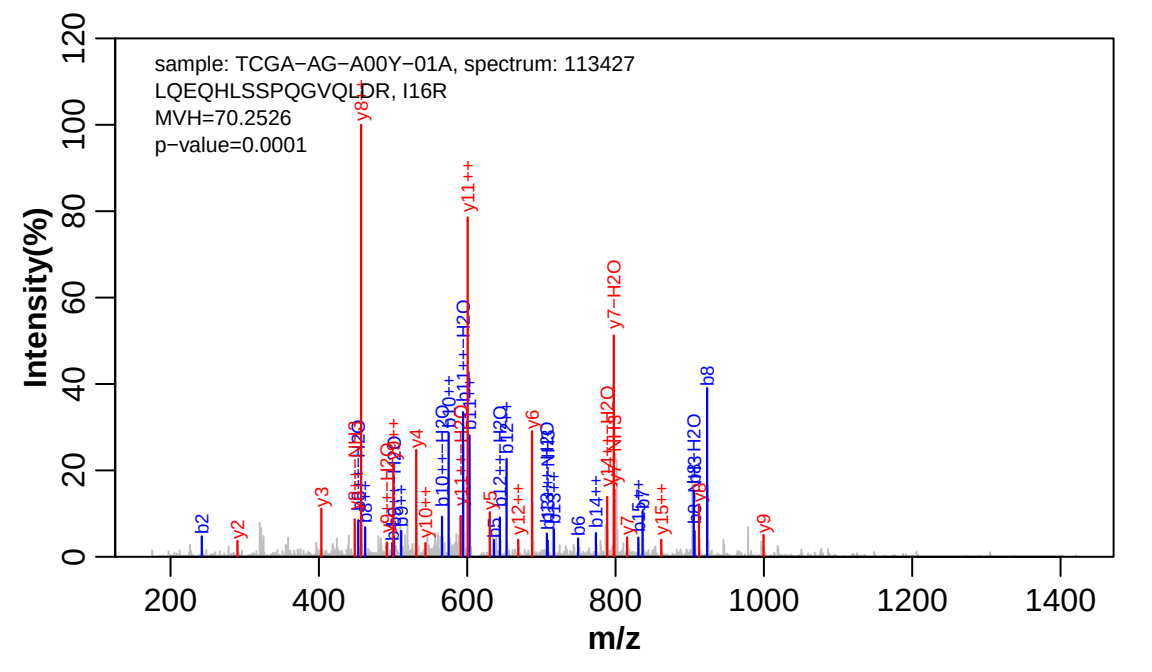

sample: TCGA−AG−A00Y−01A, spectrum: 37263
LFEEDPAVGALVLTGGDK, T1I
MVH=81.5169
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
y4
b7++
b8++
y5
b9++
y10++
b10++
y6−NH3
y6
y13++−NH3
b11++
b12++
b5
y14++−H2O
b13++
y7
y15++−H2O
b14++−H2O
b15++−H2O
b16++−NH3
b7
y9
b8
y10
b9
b10
b11
b12
b14++

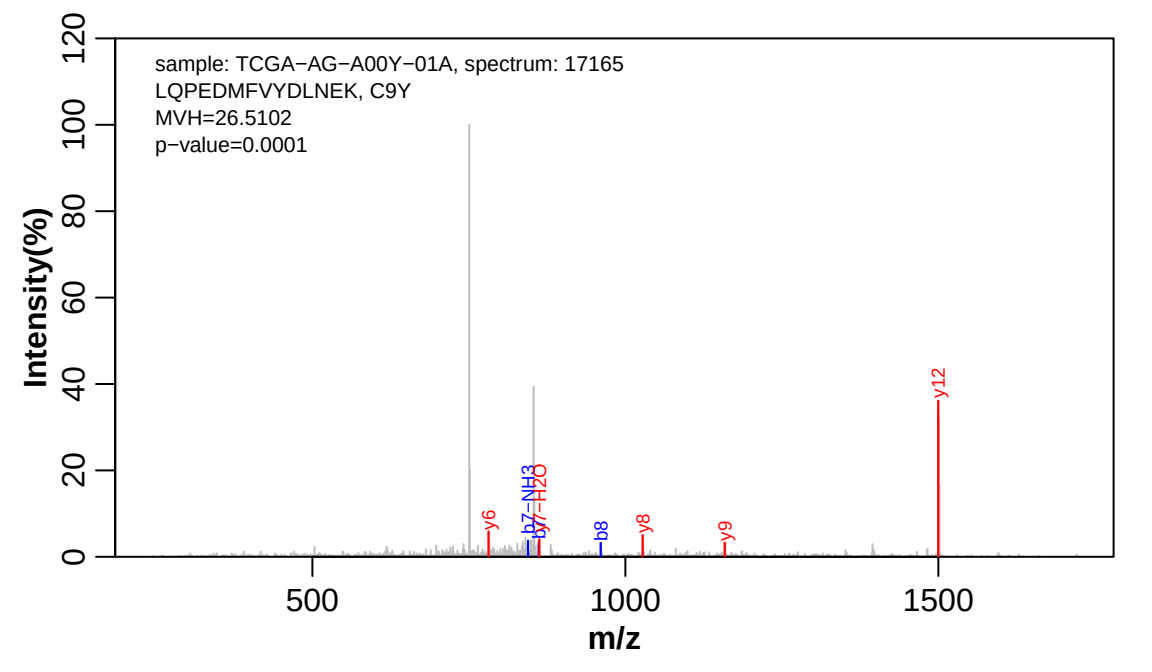

sample: TCGA−AG−A00Y−01A, spectrum: 35039
LLTQDEGPALVPGSR, G14S
MVH=37.7949
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
y8
y9
b8
b9−NH3
y10
y11
b11
b11−H2O

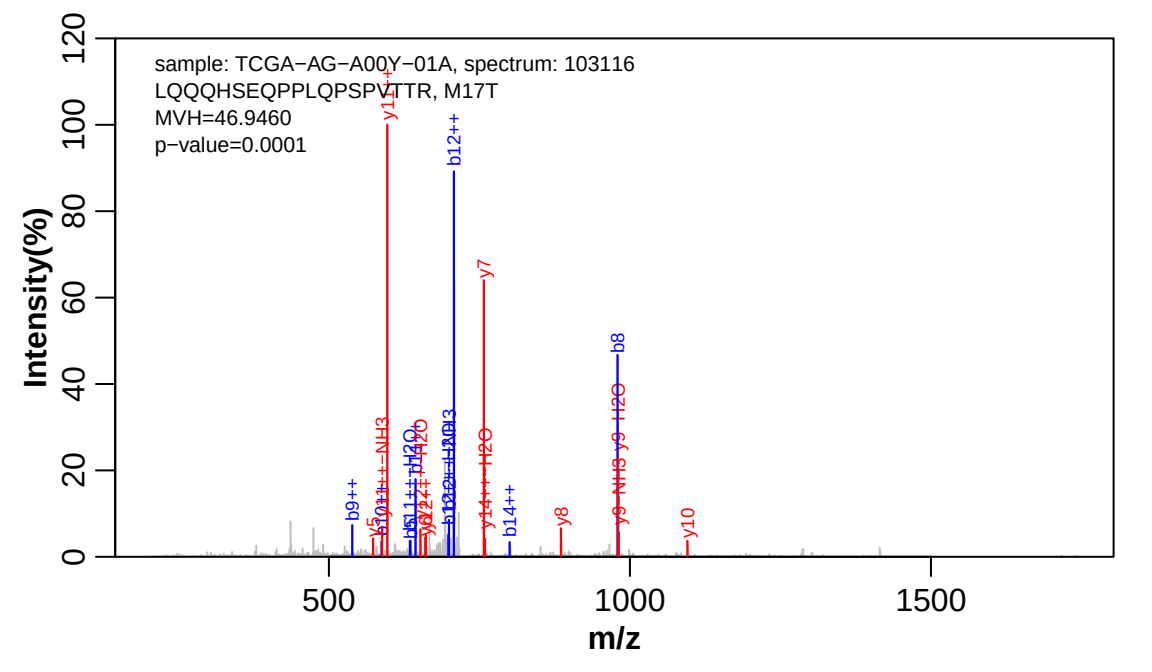

sample: TCGA−AG−A00Y−01A, spectrum: 145000
LPQGLPTEENMSNTCLK, A7T
MVH=45.4954
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−NH3
b5
y6
b8
y7
y8−NH3
y8−H2O
b10
y9
y12−NH3
y12−H2O
y12
y14
y15

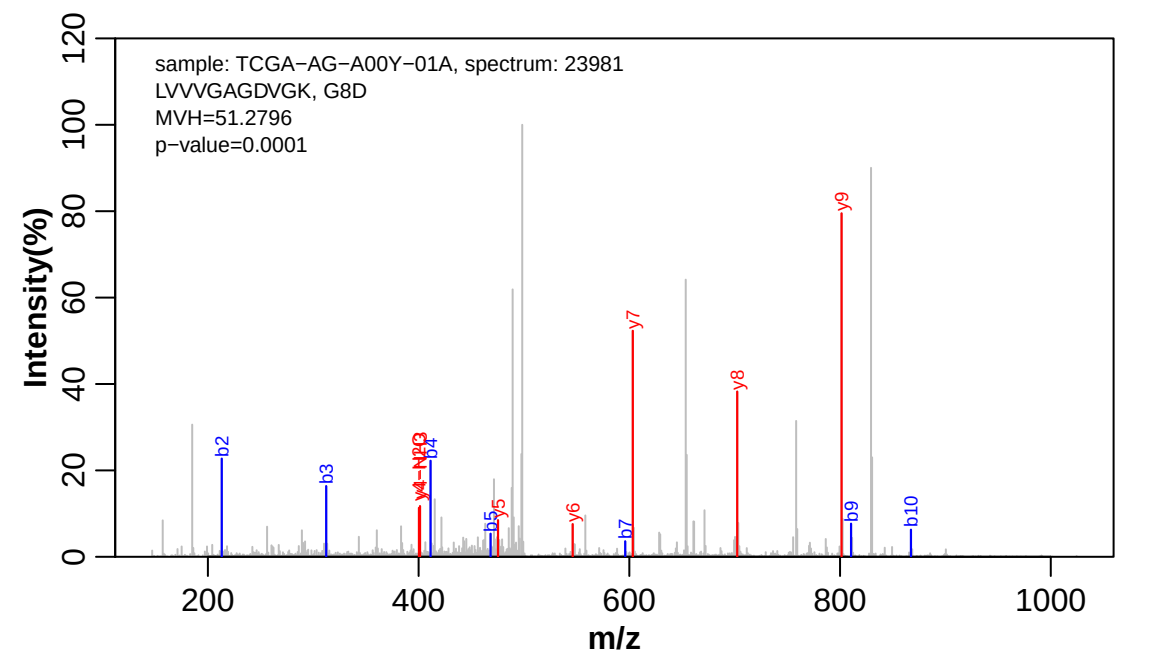

sample: TCGA−AG−A00Y−01A, spectrum: 24447
LQAAYNLVK, R2Q
MVH=31.1799
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b4
y4−NH3
y4
y5
y6
y7
b7
b8

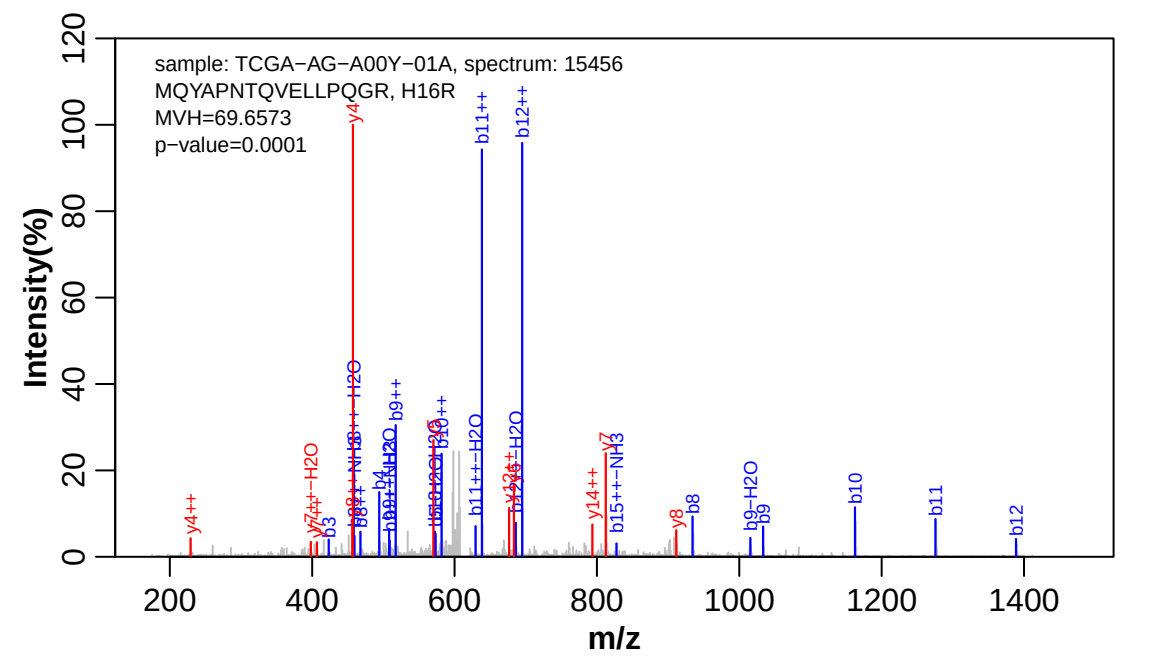

sample: TCGA−AG−A00Y−01A, spectrum: 83168
LQELTPSSGDPGEHDPASTHK, P4L
MVH=72.6093
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y11+++
y13+++−H2O
y14+++
y15+++−H2O
y16+++−H2O
y16+++
y11++
y19+++−H2O
y13++
y14++
y15++
y16++

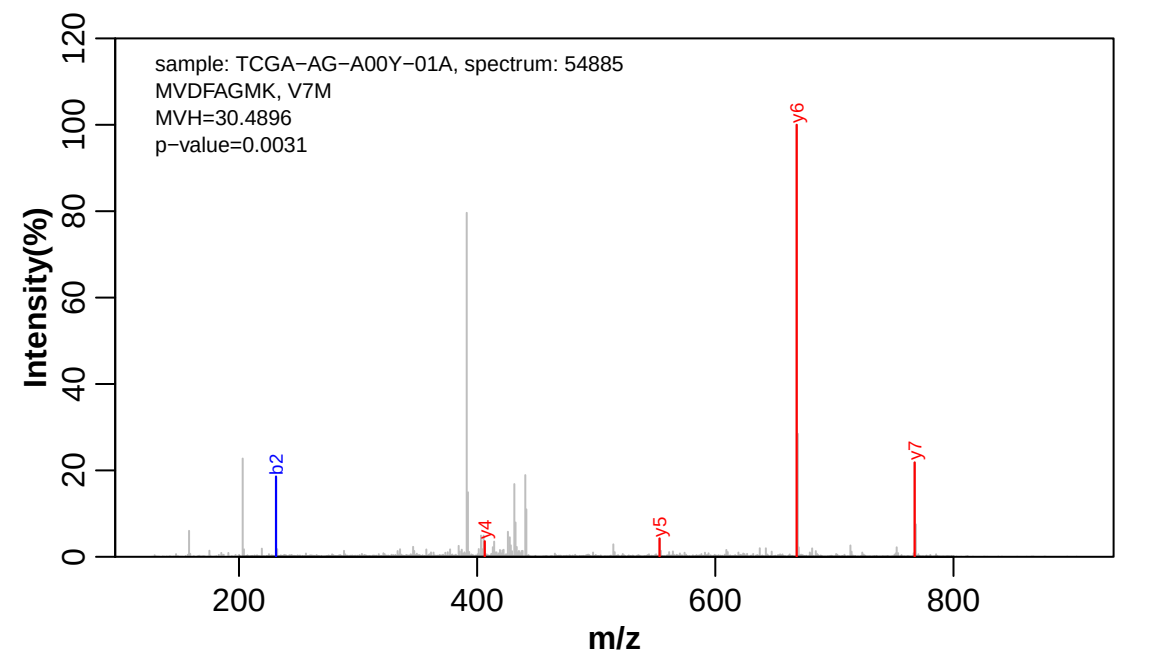

sample: TCGA−AG−A00Y−01A, spectrum: 113427
LQEQHLSSPQGVQLDR, I16R
MVH=70.2526
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y8++
y11++
y7−H2O
b8
y3
y6
y9
b2
y2
y4
y10++
y12++
b6
b14++
y15++

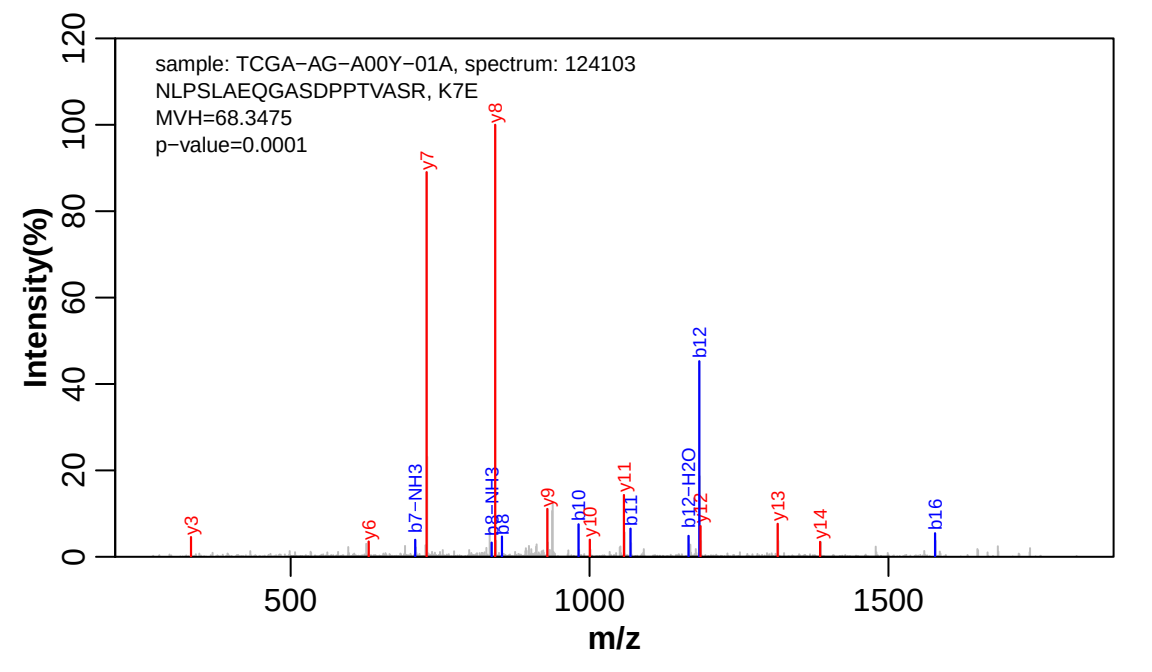

sample: TCGA−AG−A00Y−01A, spectrum: 17165
LQPEDMFVYDLNEK, C9Y
MVH=26.5102
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y6
b7−NH3
b7−H2O
b8
y8
y9
y12

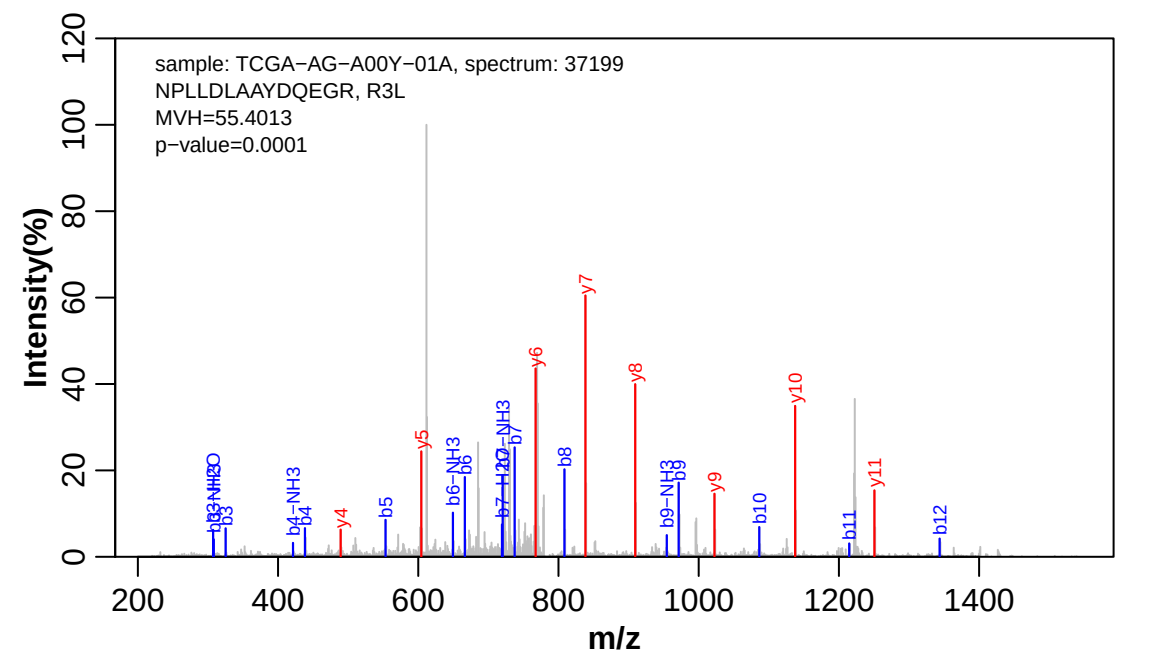

sample: TCGA−AG−A00Y−01A, spectrum: 103116
LQQQHSEQPPLQPSPVTTR, M17T
MVH=46.9460
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11++
b12++
y7
b8
y14++ H2O
y9−NH3 y9−H2O
b9++
b14++
y8
y10

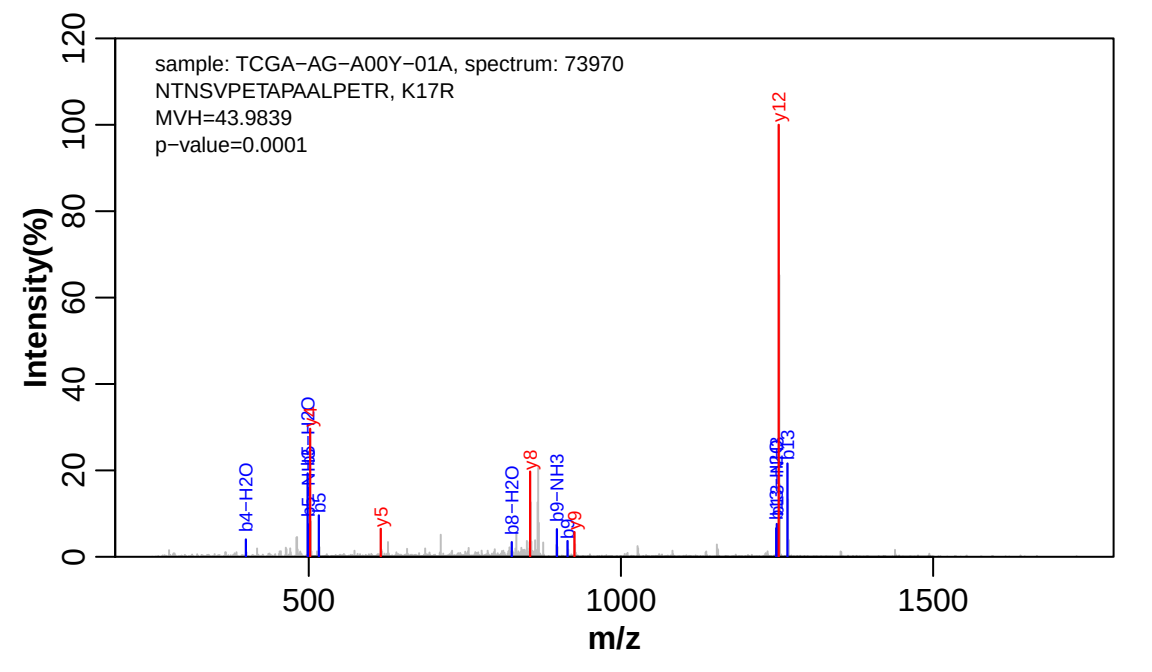

sample: TCGA−AG−A00Y−01A, spectrum: 23981
LVVVGAGDVGK, G8D
MVH=51.2796
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y4−NH3
y4
b4
b5
y5
y6
b7
y7
y8
y9
b9
b10

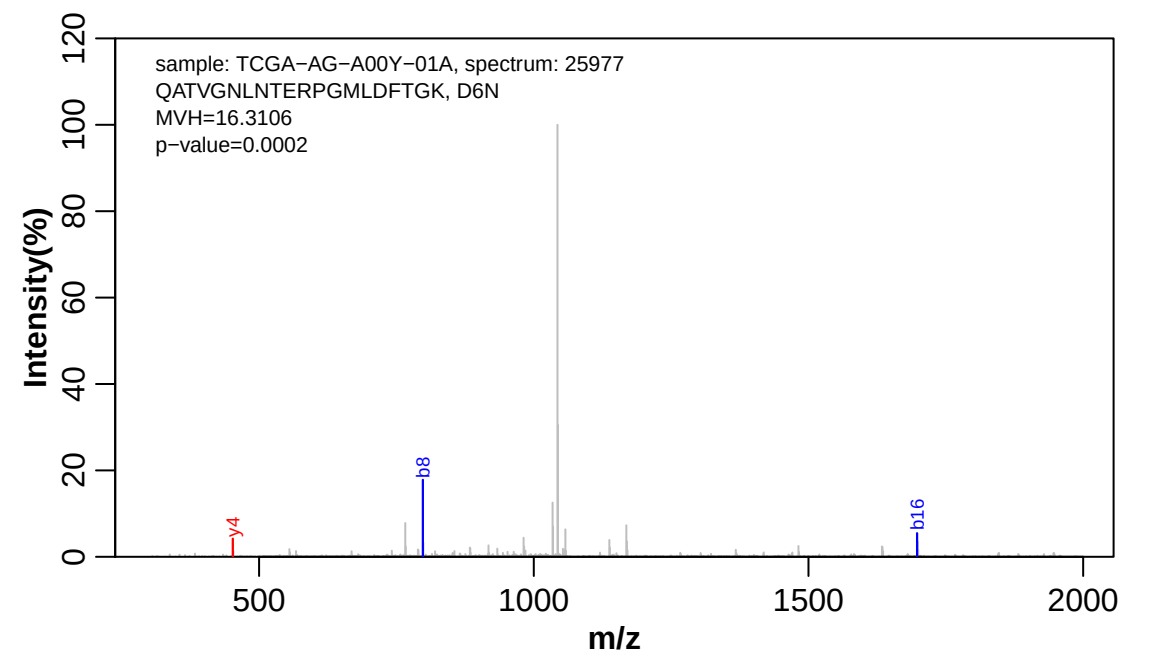

sample: TCGA−AG−A00Y−01A, spectrum: 15456
MQYAPNTQVELLPQGR, H16R
MVH=69.6573
p−value=0.0001
Intensity(%)
m/z
y4++
y4
b11++
b12++
b11++−H2O
b12++−H2O
b9++
y7++−H2O
y7++
b3
y14++
y7
b15++−NH3
y8
b8
b9−H2O
b9
b10
b11
b12

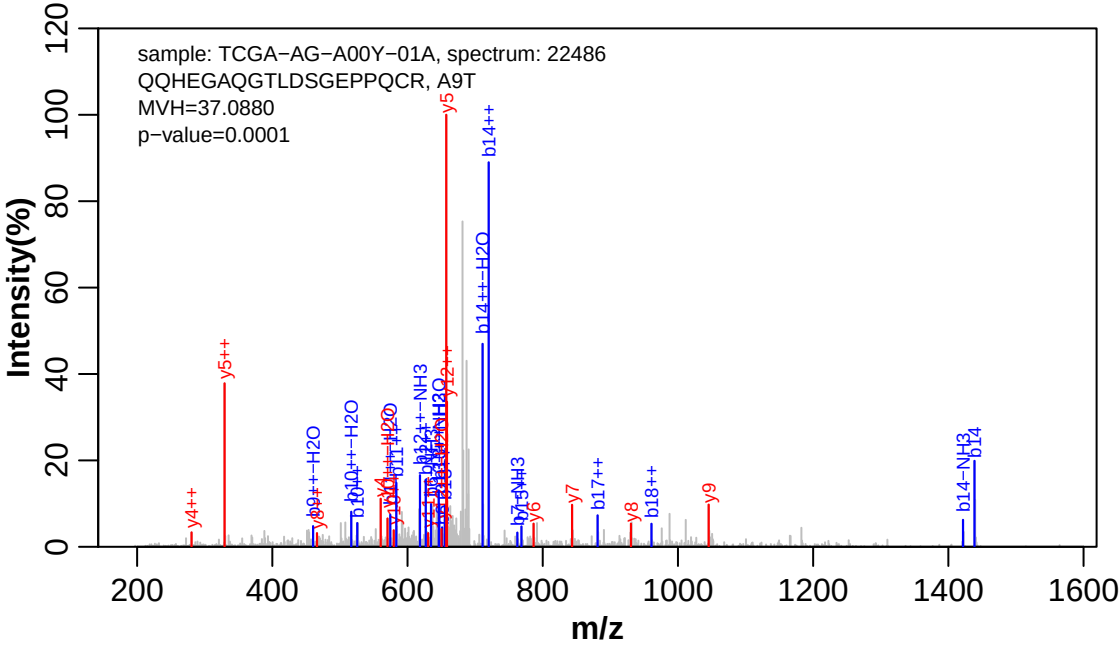

sample: TCGA−AG−A00Y−01A, spectrum: 54885
MVDFAGMK, V7M
MVH=30.4896
p−value=0.0031
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y4
y5
y6
y7

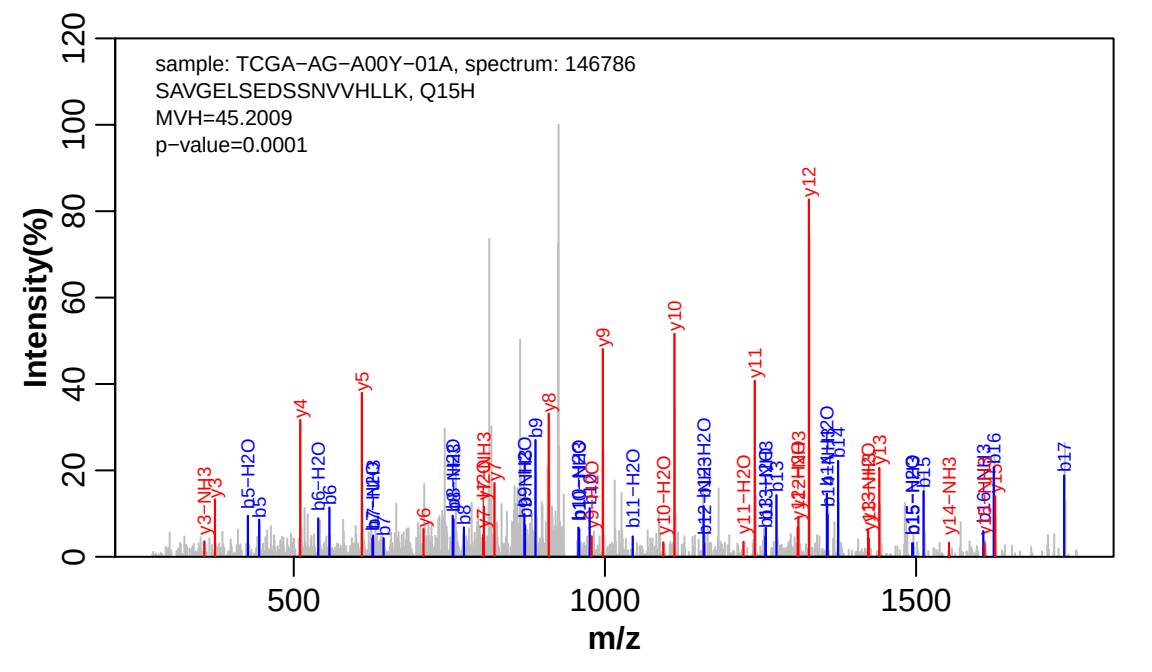

sample: TCGA−AG−A00Y−01A, spectrum: 124103
NLPSLAEQGASDPPTVASR, K7E
MVH=68.3475
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y6
b7−NH3
y7
b8−NH3
b8
y8
y9
b10
y10
y11
b11
b12−H2O
y12
b12
y13
y14
b16

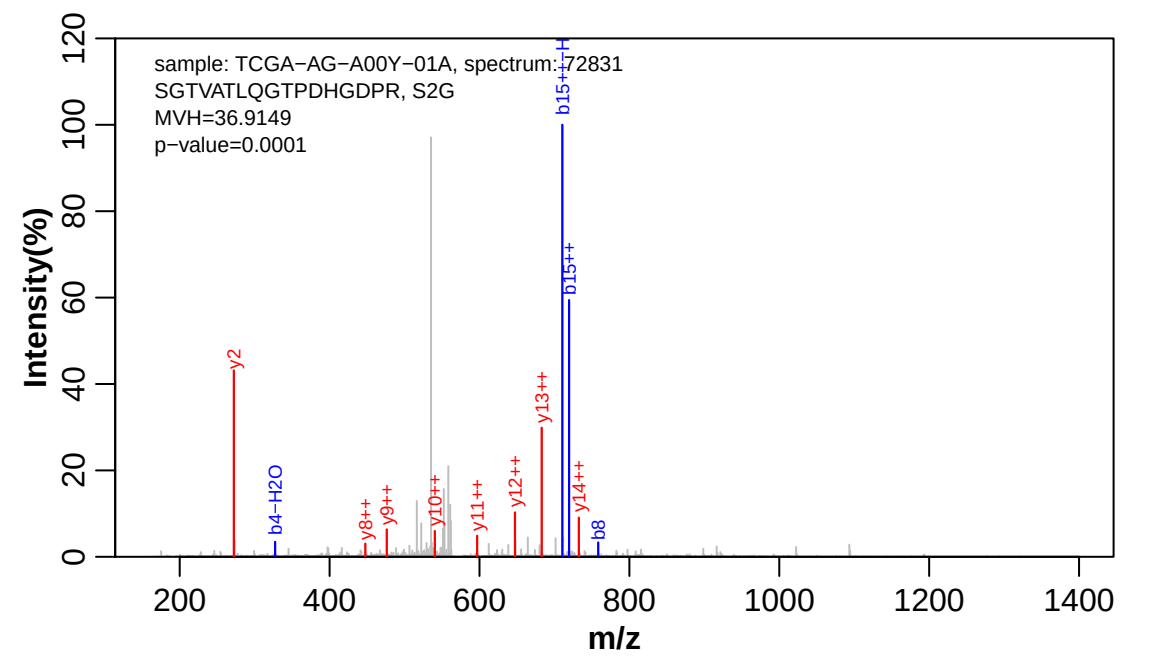

sample: TCGA−AG−A00Y−01A, spectrum: 37199
NPLLDLAAYDQEGR, R3L
MVH=55.4013
p−value=0.0001
Intensity(%)
m/z
b4−NH3
b6−NH3
b7−H2O−NH3
b9−NH3
y4
y5
y6
y7
y8
y9
y10
y11
b5
b6
b7
b8
b9
b10
b11
b12

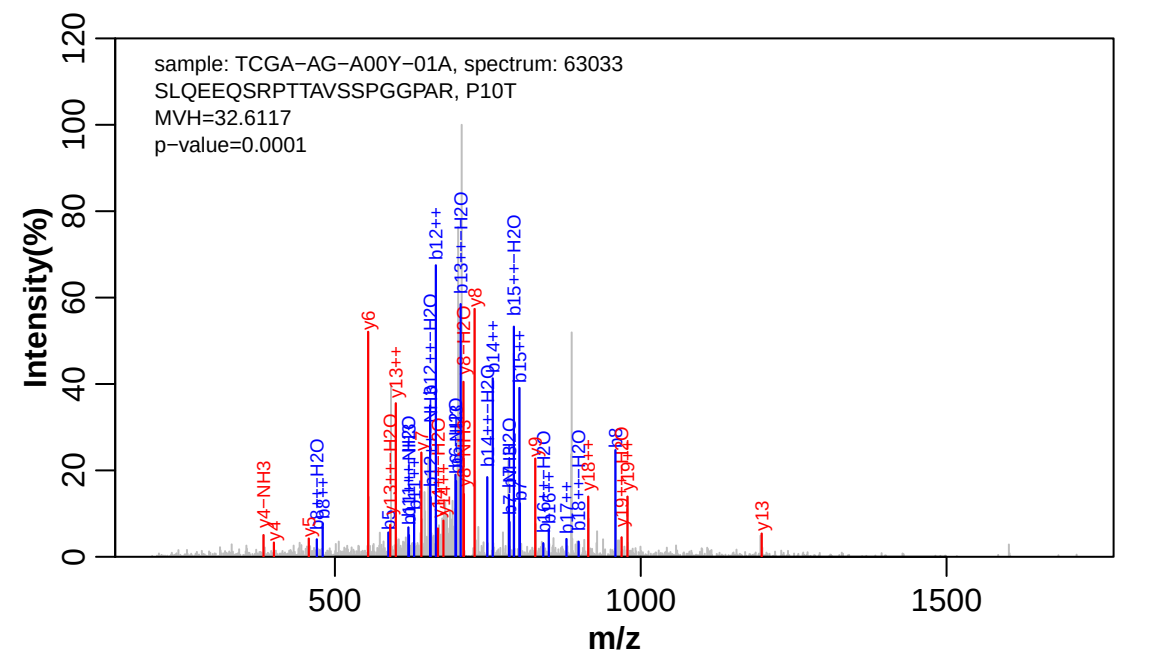

sample: TCGA−AG−A00Y−01A, spectrum: 73970
NTNSVPETAPAALPETR, K17R
MVH=43.9839
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
b4−H2O
y5
b8−H2O
y8
b9−NH3
y9
b13

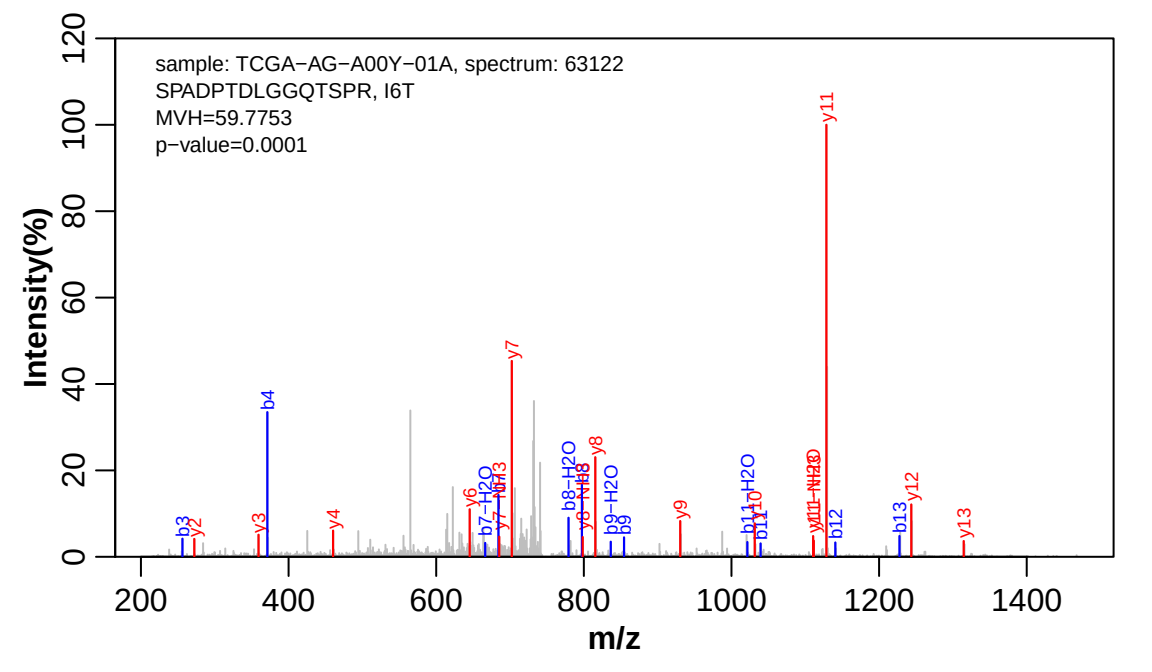

sample: TCGA−AG−A00Y−01A, spectrum: 25977
QATVGNLNTERPGMLDFTGK, D6N
MVH=16.3106
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
y4
b8
b16
500
1000
1500
2000
m/z

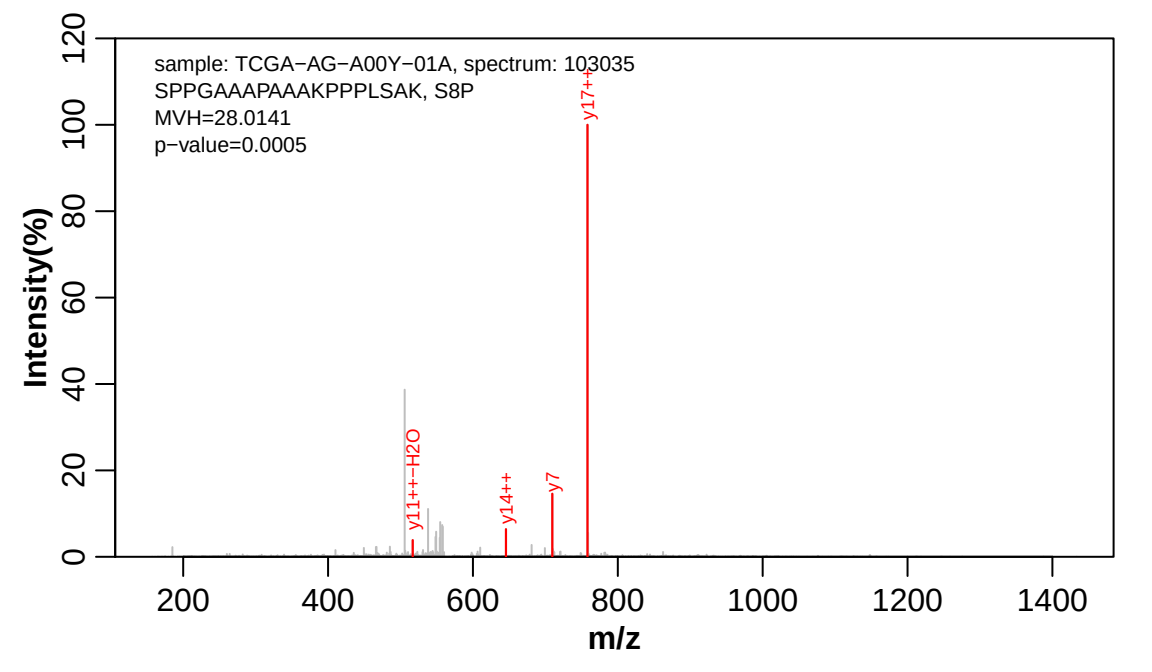

sample: TCGA−AG−A00Y−01A, spectrum: 22486
QQHEGAQGTLDSGEPPQCR, A9T
MVH=37.0880
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4++
y5++
y5
b14++
b14++−H2O
y12++
b14−NH3
b14
y7
b17++
y8
b18++
y9

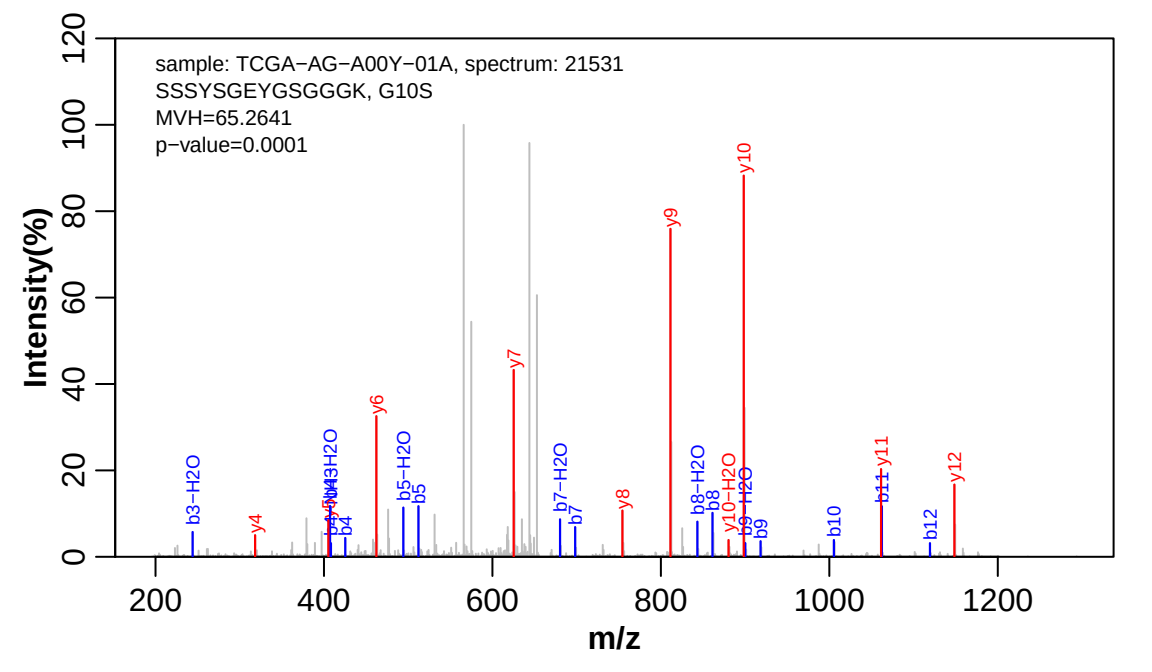

sample: TCGA−AG−A00Y−01A, spectrum: 146786
SAVGELSEDSSNVVHLLK, Q15H
MVH=45.2009
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y10
y9
y11
y5
y4
y8
b17
y14−NH3
b11−H2O
y10−H2O
y11−H2O
b5−H2O
b6−H2O
y3−NH3

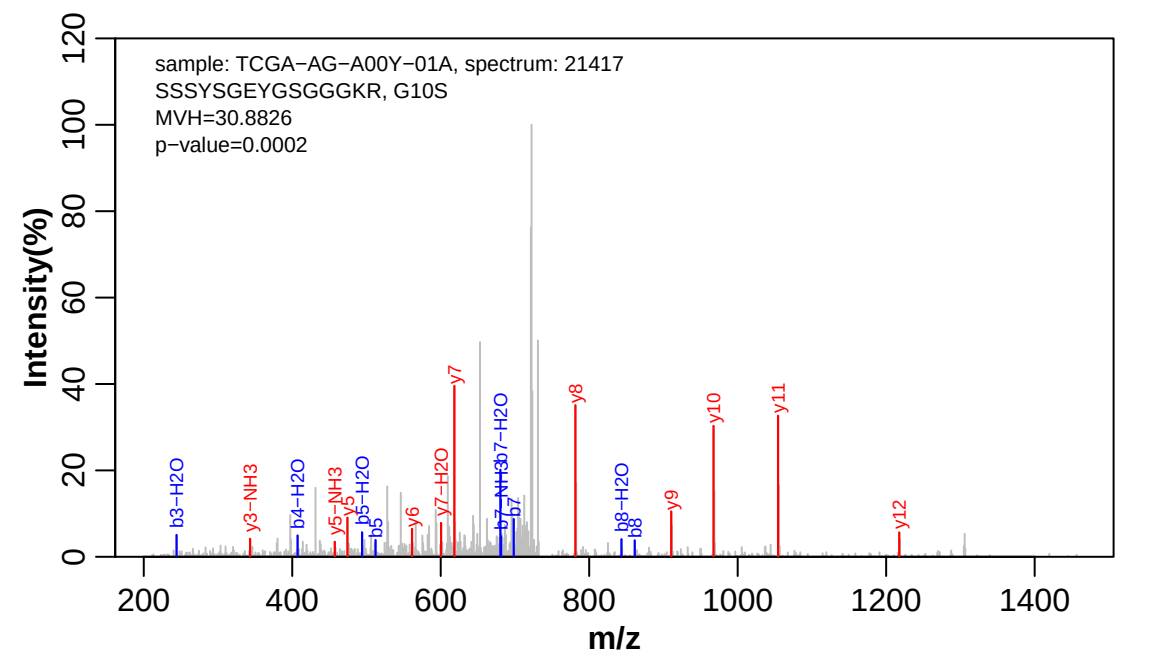

sample: TCGA−AG−A00Y−01A, spectrum: 72831
SGTVATLQGTPDHGDPR, S2G
MVH=36.9149
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b4−H2O
y8++
y9++
y10++
y11++
y12++
y13++
b15++−H
b15++
y14++
b8

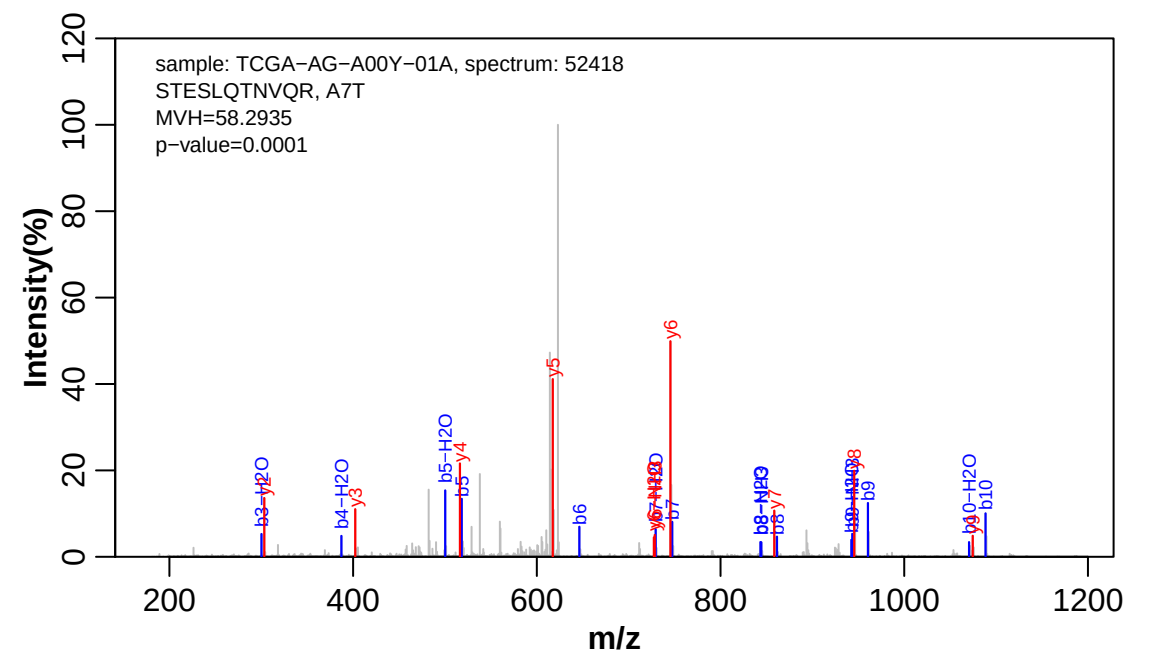

sample: TCGA−AG−A00Y−01A, spectrum: 63033
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=32.6117
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y8
y13++
y13
y4−NH3
y4
y5
b8++−H2O
b12++
b12++−H2O
b13++−H2O
b15++−H2O
b14++
b15++
y8−H2O
y8−NH3
b14++−H2O
b16++−H2O
b17++
y18++
y18++−H2O
b18++
y19++
y19++−H2O
b8
b5
b5++−H2O
y13++−H2O

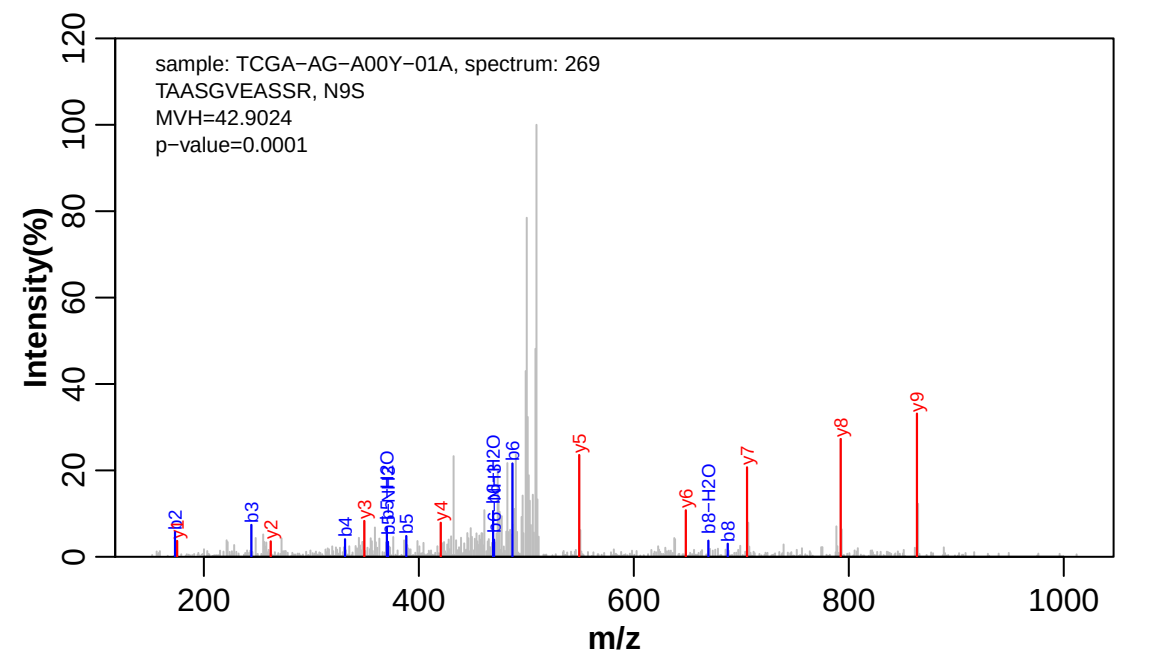

sample: TCGA−AG−A00Y−01A, spectrum: 63122
SPADPTDLGGQTSPR, I6T
MVH=59.7753
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
y6
b7−H2O
y7
b7
y7−NH3
y7
b8−H2O
y8−NH3
y8
b9−H2O
b9
y9
b11−H2O
b11
b10
y11−NH3
y11
b12
b13
y12
y13

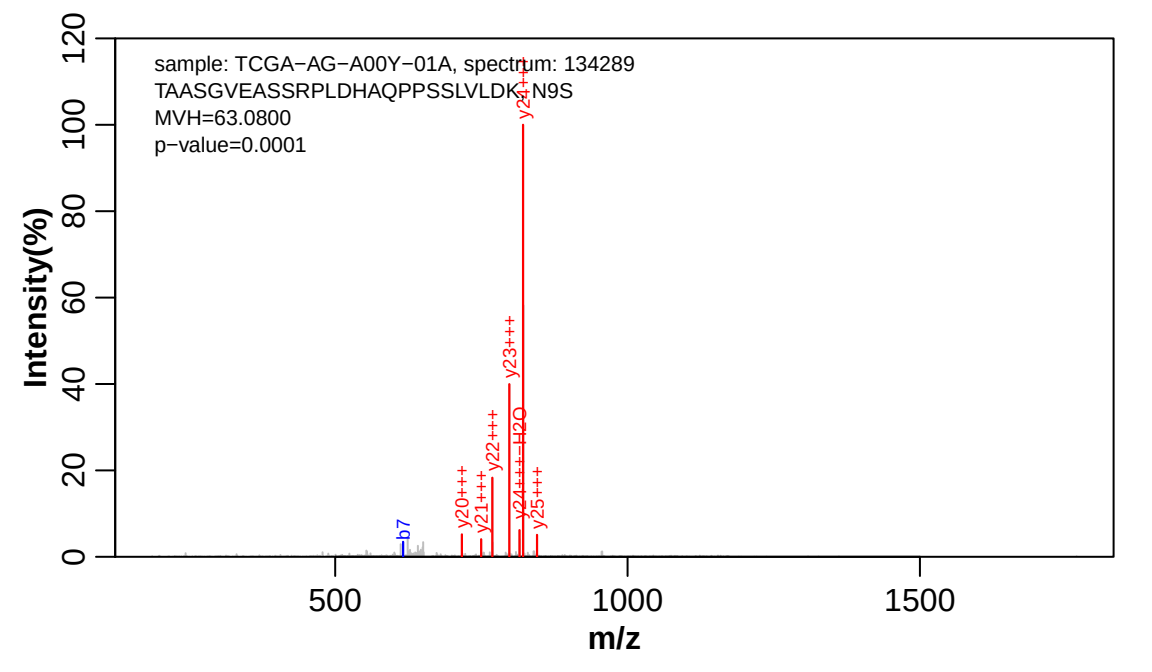

sample: TCGA−AG−A00Y−01A, spectrum: 103035
SPPGAAAPAAAKPPPLSAK, S8P
MVH=28.0141
p−value=0.0005
y17++
y11++−H2O
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

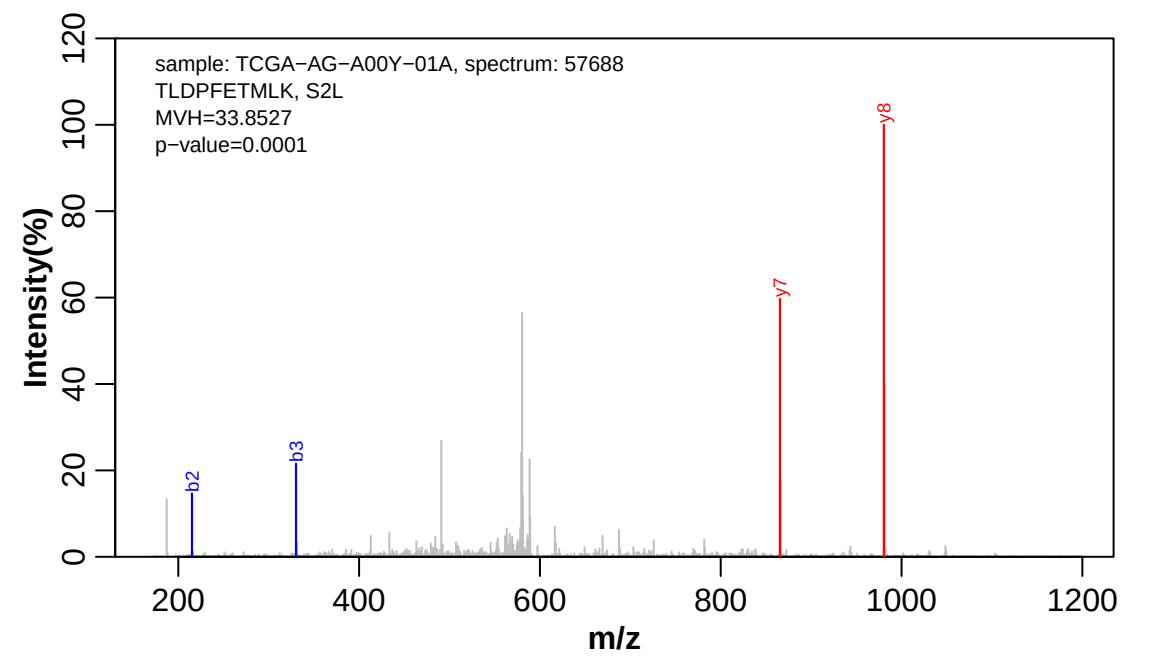

sample: TCGA−AG−A00Y−01A, spectrum: 21531
SSSYSGEYGSGGGK, G10S
MVH=65.2641
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4
b5−H2O
b5
y6
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10
b9−H2O
b9
b10
b11
y11
b12
y12

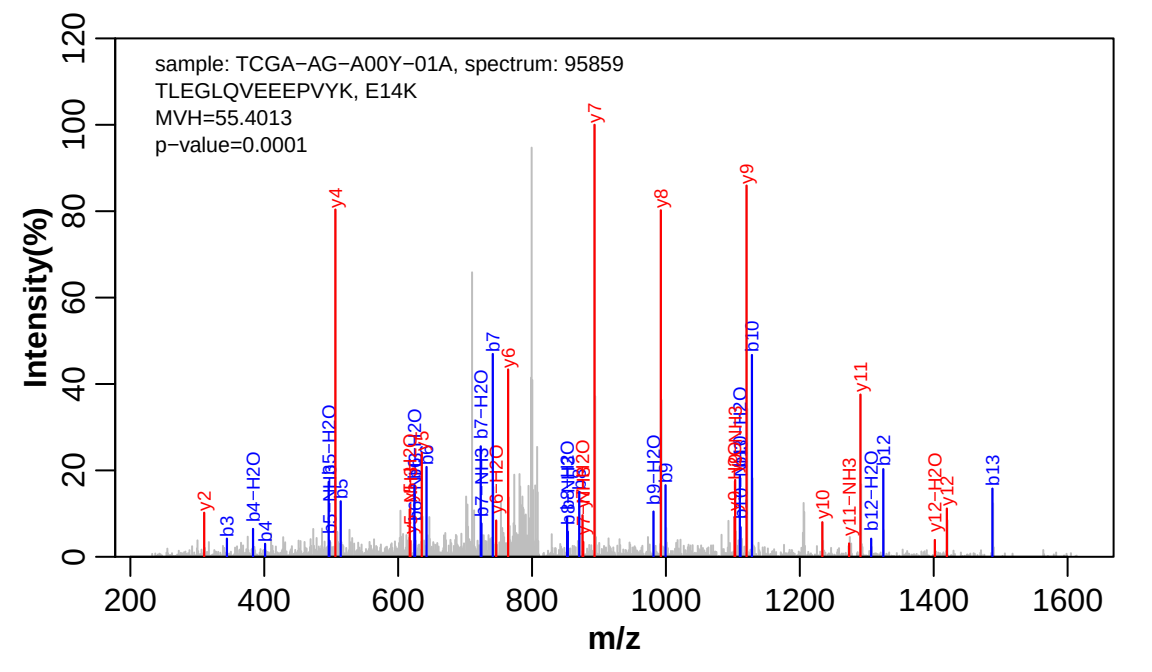

sample: TCGA−AG−A00Y−01A, spectrum: 21417
SSSYSGEYGSGGGKR, G10S
MVH=30.8826
p−value=0.0002
Intensity(%)
m/z
b3−H2O
y3−NH3
b4−H2O
y5−NH3
y5
b5−H2O
b5
y6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−H2O
b8
y9
y10
y11
y12

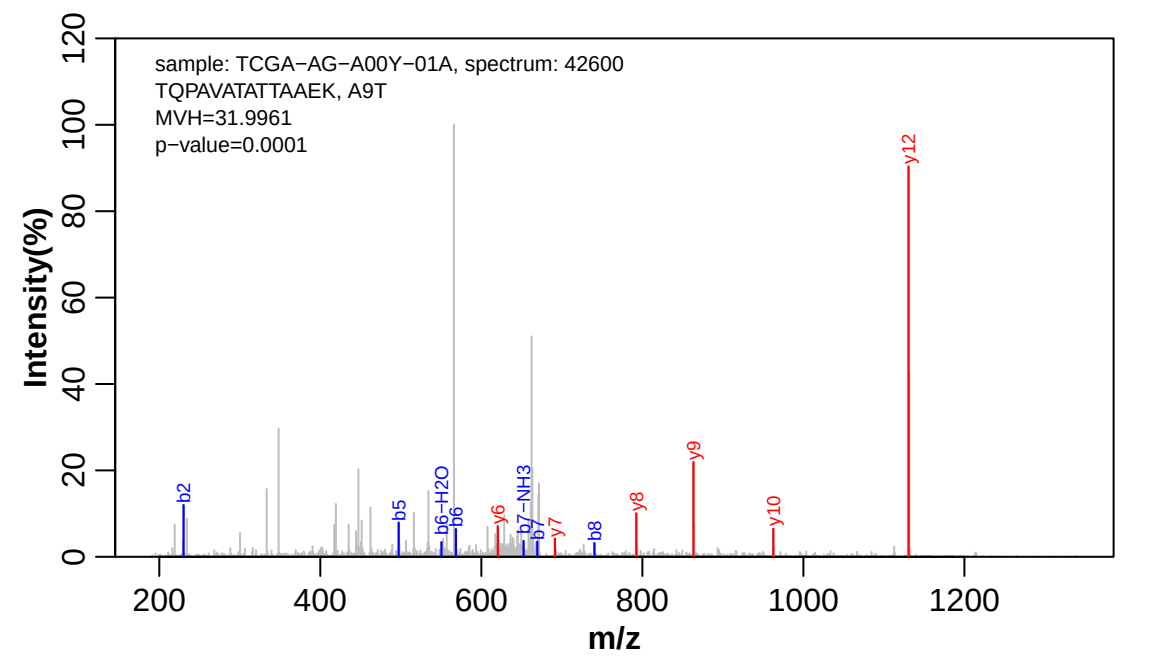

sample: TCGA−AG−A00Y−01A, spectrum: 52418
STESLQTNVQR, A7T
MVH=58.2935
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2
b4−H2O
y3
b5−H2O
b5
y4
y5
b6
y6
b7
b8−H2O
b8
y7
b9
b10−H2O
b10

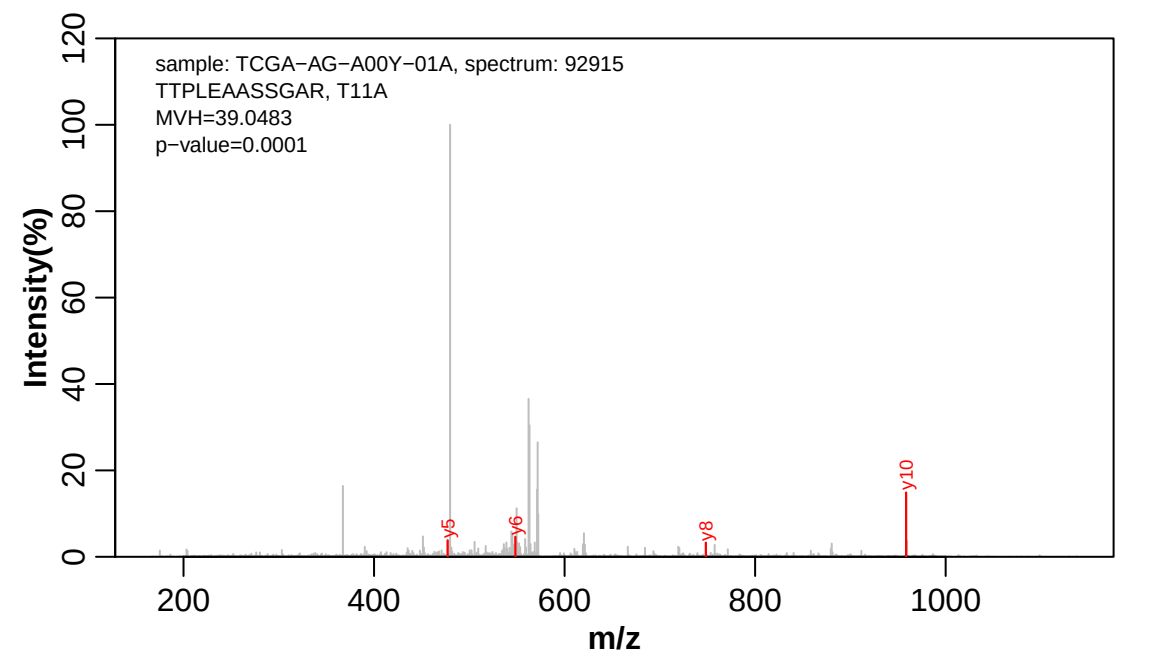

sample: TCGA−AG−A00Y−01A, spectrum: 269
TAASGVEASSR, N9S
MVH=42.9024
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b2
b3
y2
b4
y3
b5−NH3
b5−H2O
b5
y4
b6−NH3
b6−H2O
b6
y5
y6
b8−H2O
b8
y7
y8
y9

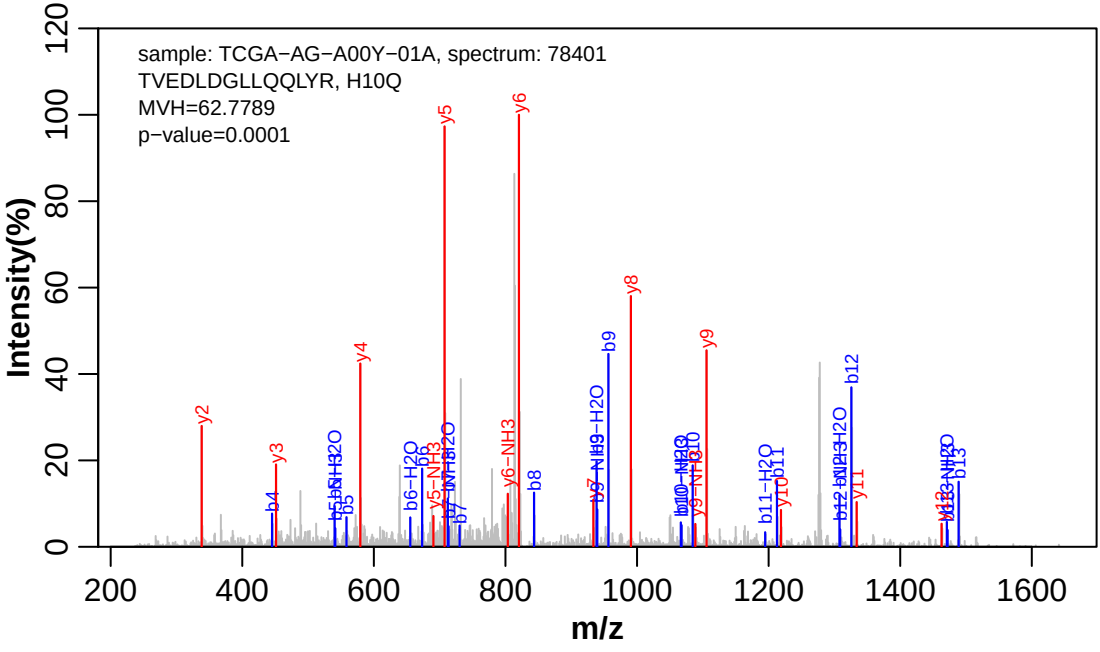

sample: TCGA−AG−A00Y−01A, spectrum: 134289
TAASGVEASSRPLDHAQPPSSLVLDK−N9S
MVH=63.0800
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7
y20+++
y21+++
y22+++
y24+++−H2O
y23+++
y24+++
y25+++

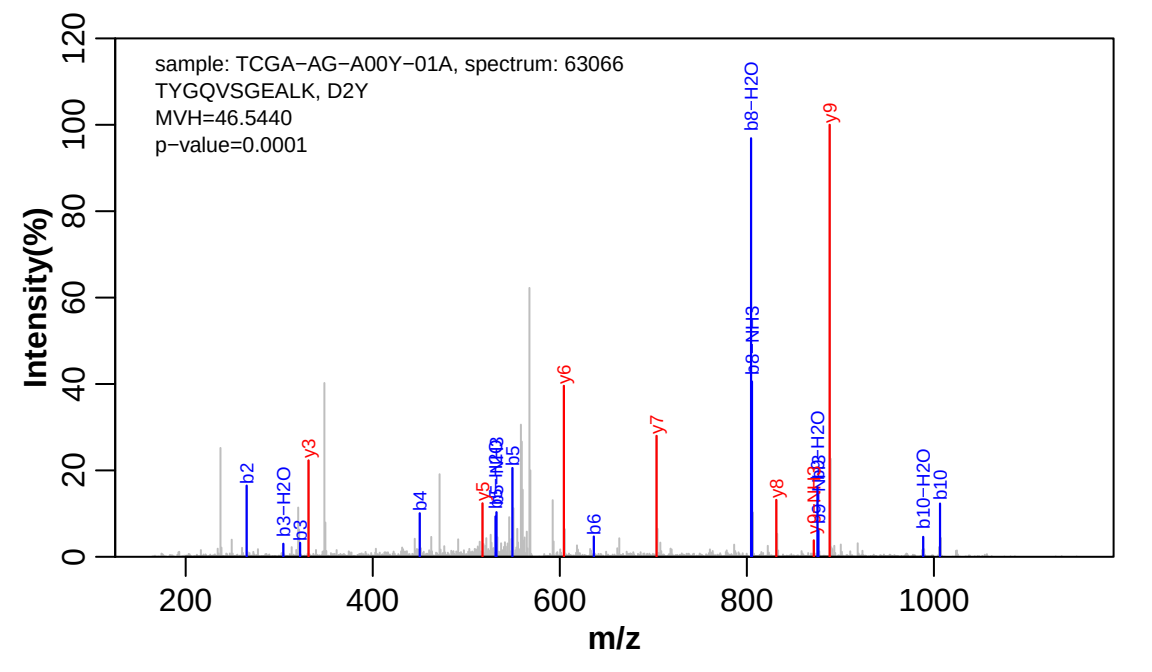

sample: TCGA−AG−A00Y−01A, spectrum: 57688
TLDPFETMLK, S2L
MVH=33.8527
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3
y7
y8

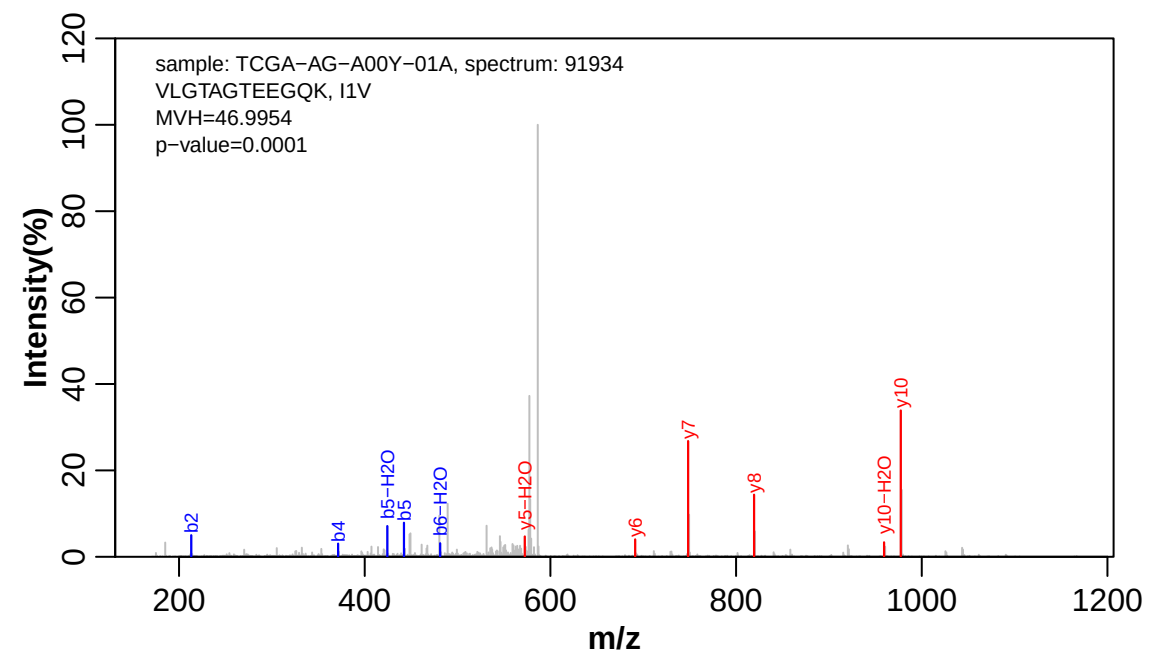

sample: TCGA−AG−A00Y−01A, spectrum: 95859
TLEGLQVEEEPVYK, E14K
MVH=55.4013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6
b7−NH3
b7−H2O
b7
y6
y6−H2O
b9−H2O
b9
y7
y8
y9
b10
y10
y11−NH3
y11
b12−H2O
b12
y12−H2O
y12
b13

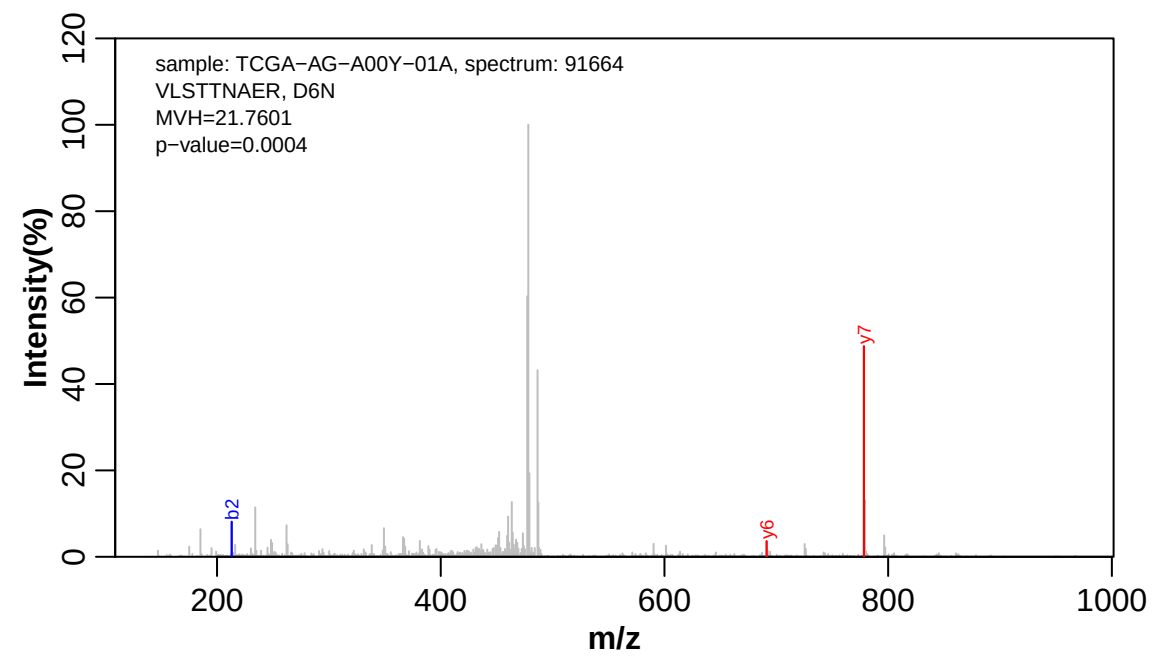

sample: TCGA−AG−A00Y−01A, spectrum: 42600
TQPAVATATTAAEK, A9T
MVH=31.9961
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b5
b6−H2O
b6
y6
b7−NH3
b7
y7
b8
y8
y9
y10
y12

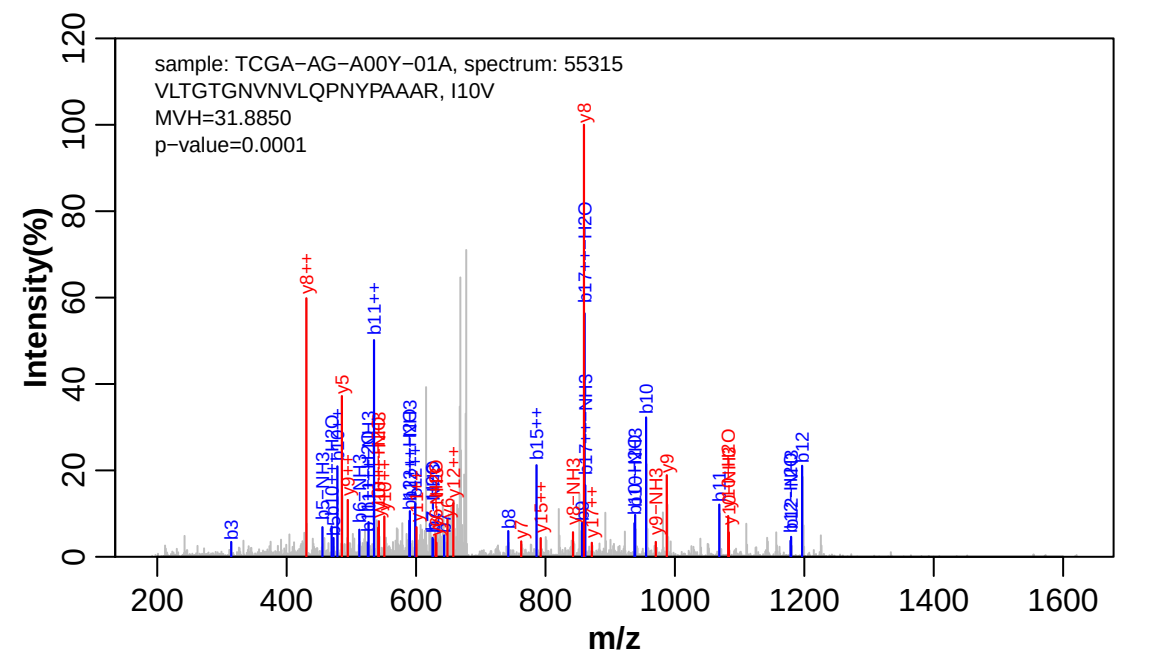

sample: TCGA−AG−A00Y−01A, spectrum: 92915
TTPLEAASSGAR, T11A
MVH=39.0483
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y8
y10

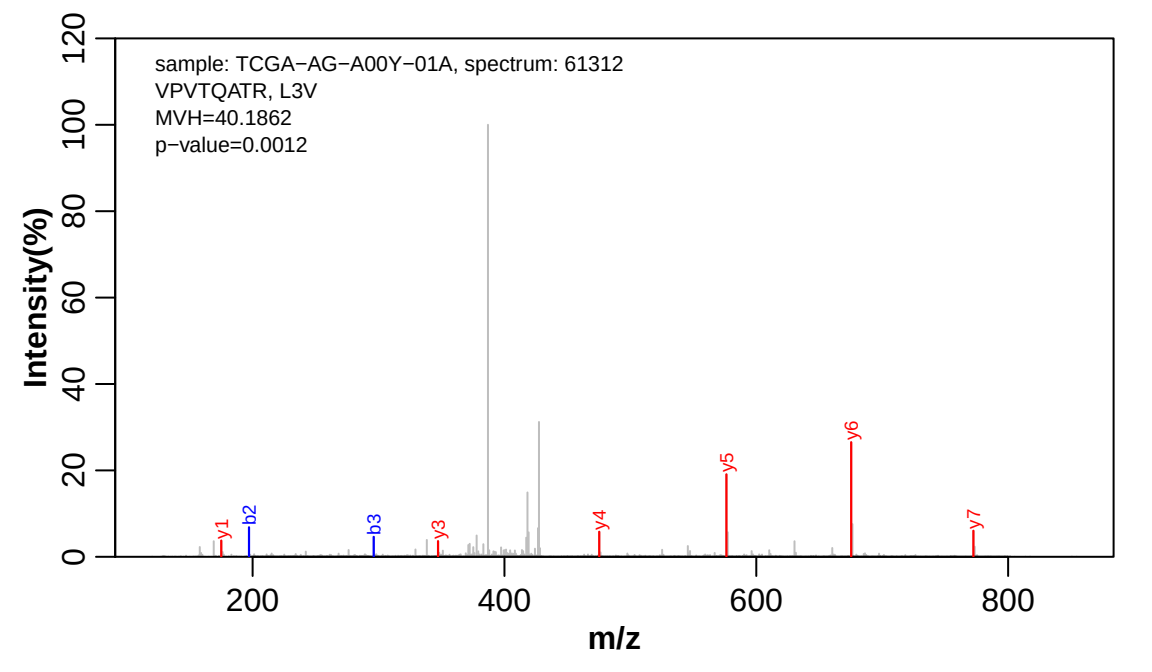

sample: TCGA−AG−A00Y−01A, spectrum: 78401
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
y3
b4
y4
b5
b6−H2O
b6
y5−NH3
y5
b7
y6−NH3
y6
b8
y8
b9
y9
y10
b11−H2O
y11
b12
b13

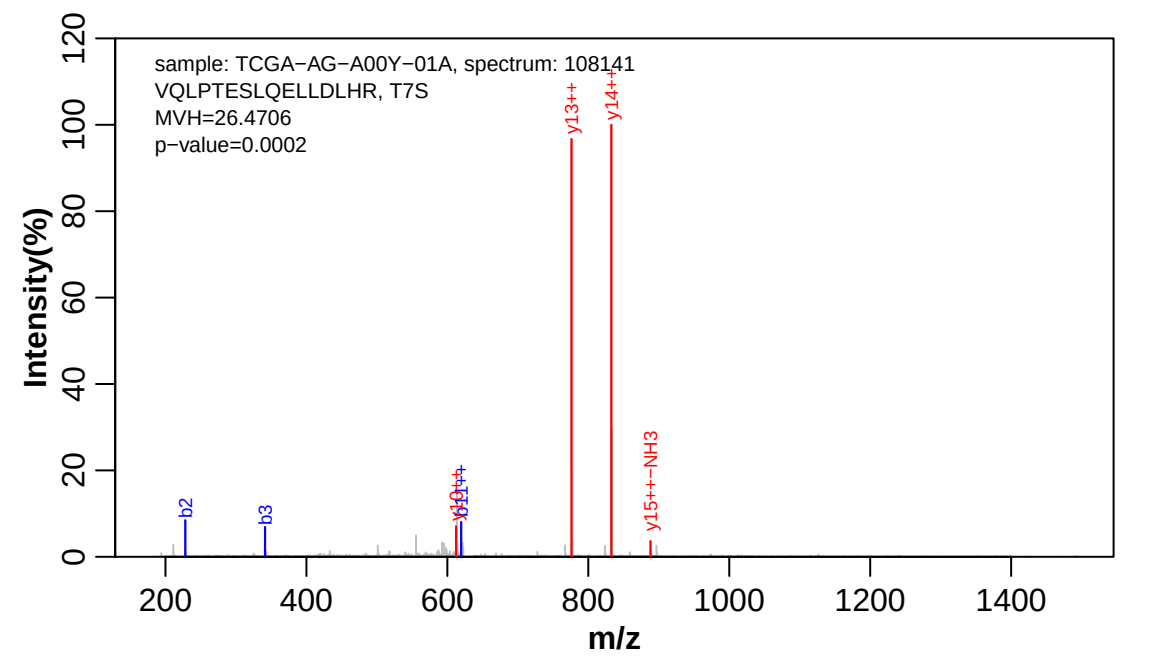

sample: TCGA−AG−A00Y−01A, spectrum: 63066
TYGQVSGEALK, D2Y
MVH=46.5440
p−value=0.0001
Intensity(%)
m/z
b2
b3−H2O
b3
y3
b4
y5
b5
y6
b6
y7
b8−H2O
b8−NH3
y8
y9
b10−H2O
b10

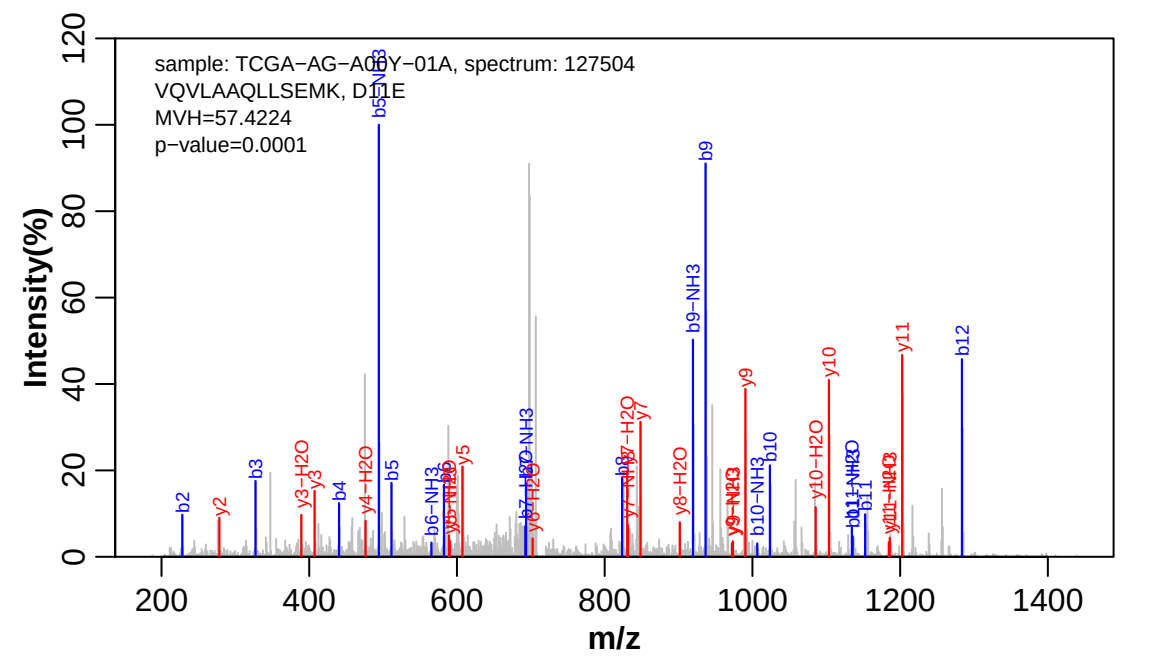

sample: TCGA−AG−A00Y−01A, spectrum: 91934
VLGTAGTEEGQK, I1V
MVH=46.9954
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4
b5−H2O
b5
b6−H2O
y5−H2O
y6
y7
y8
y10−H2O
y10

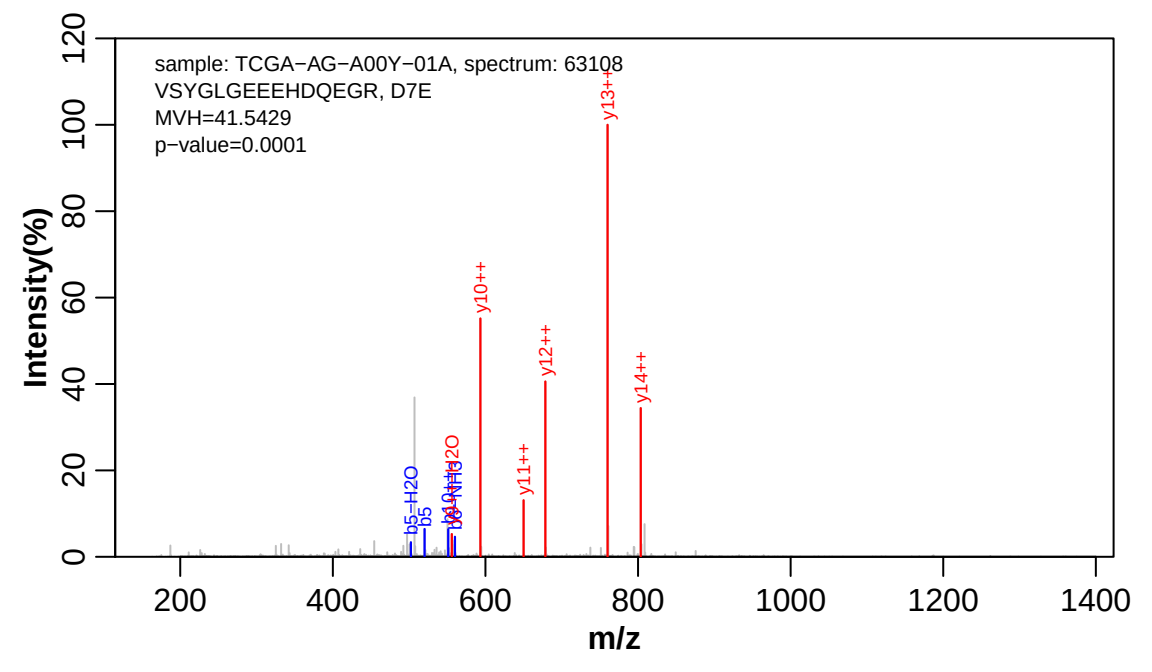

sample: TCGA−AG−A00Y−01A, spectrum: 91664
VLSTTNAER, D6N
MVH=21.7601
p−value=0.0004
b2
y6
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

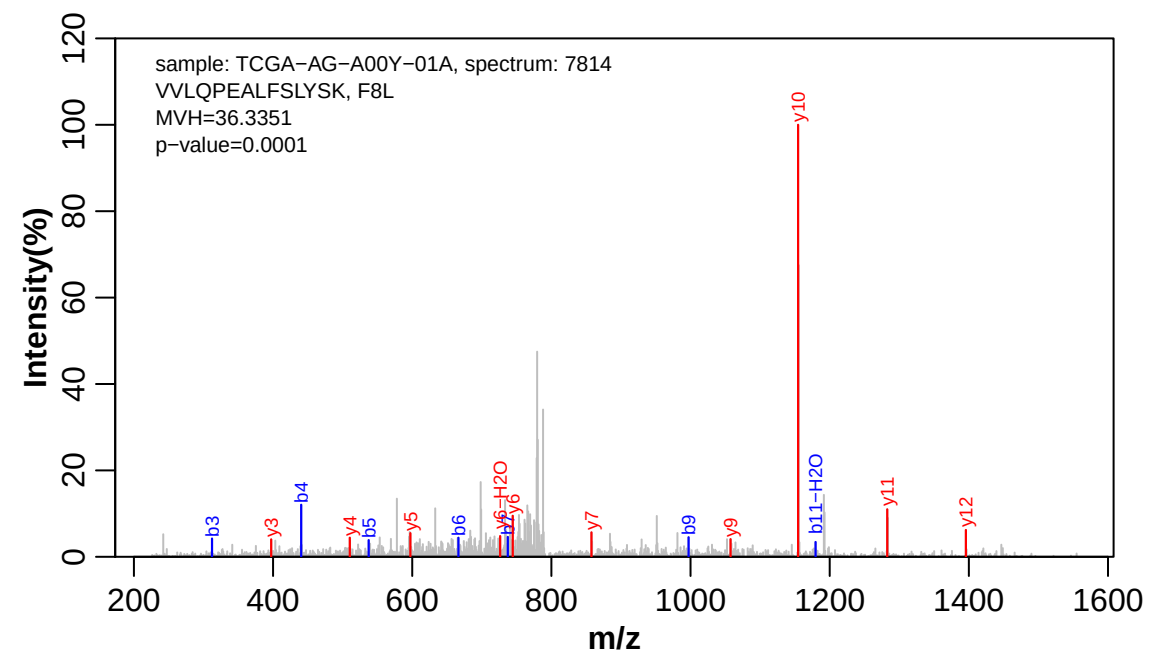

sample: TCGA−AG−A00Y−01A, spectrum: 55315
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=31.8850
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y8
y8++
b11++
y5
b17++ H2O
b17++ NH3
b10
b15++
y15++
b8
y7
y9
y9−NH3
b12
b3

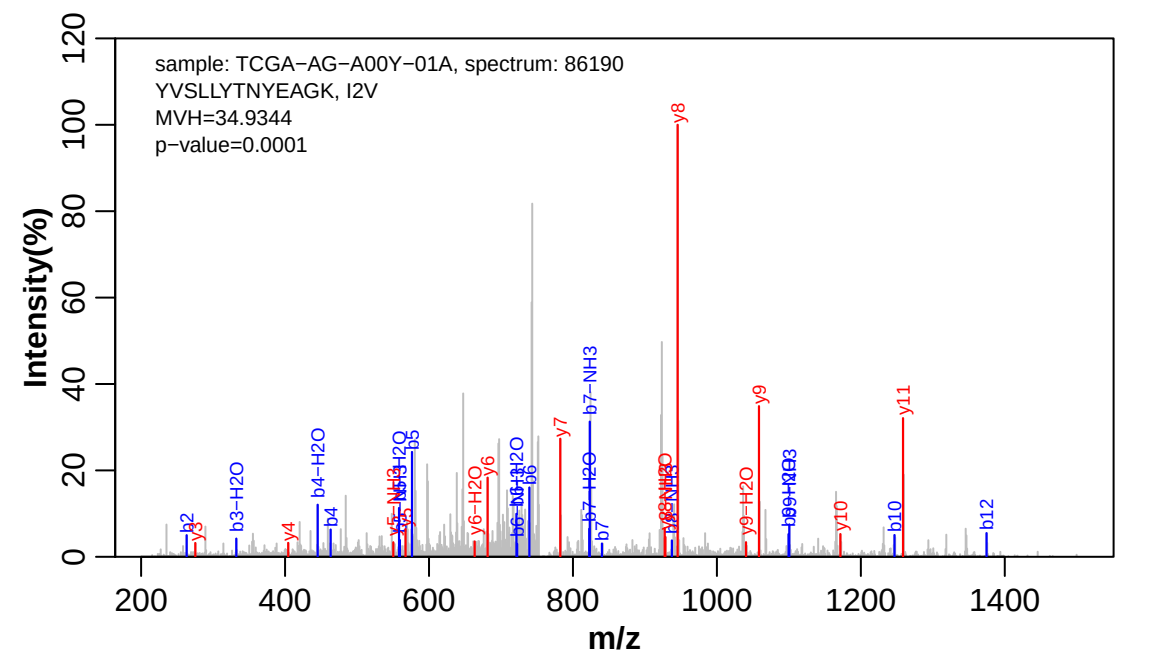

sample: TCGA−AG−A00Y−01A, spectrum: 61312
VPVTQATR, L3V
MVH=40.1862
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
y4
y5
y6
y7

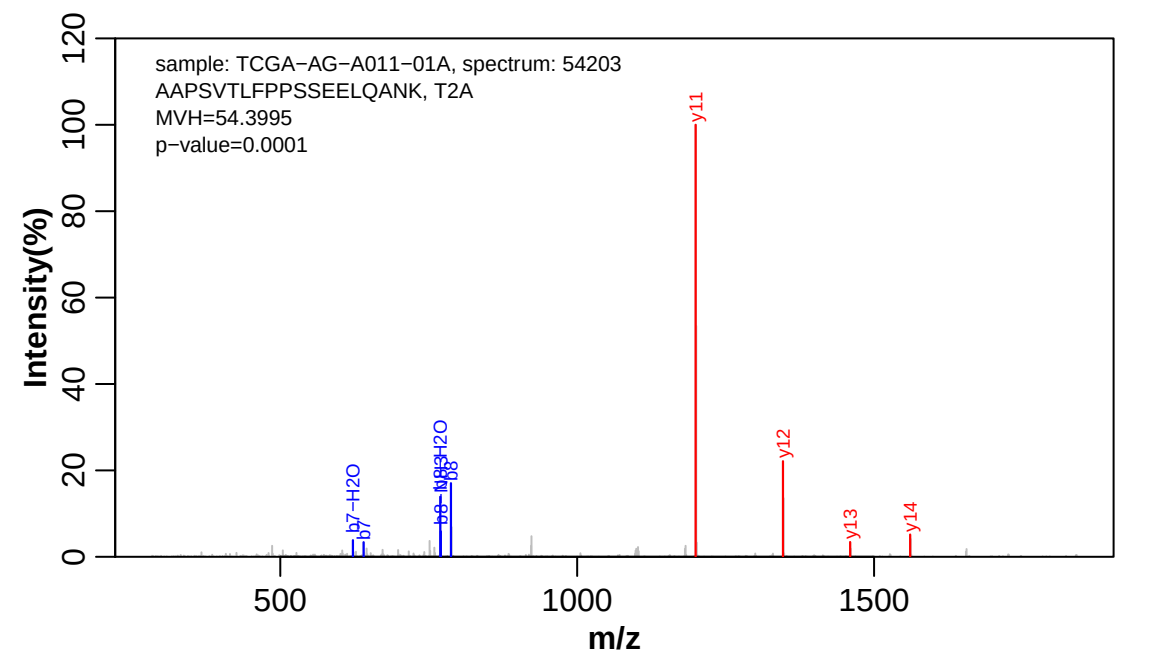

sample: TCGA−AG−A00Y−01A, spectrum: 108141
VQLPTESLQELLDLHR, T7S
MVH=26.4706
p−value=0.0002
y13++
y14++
y15++−NH3
b2
b3
y10++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

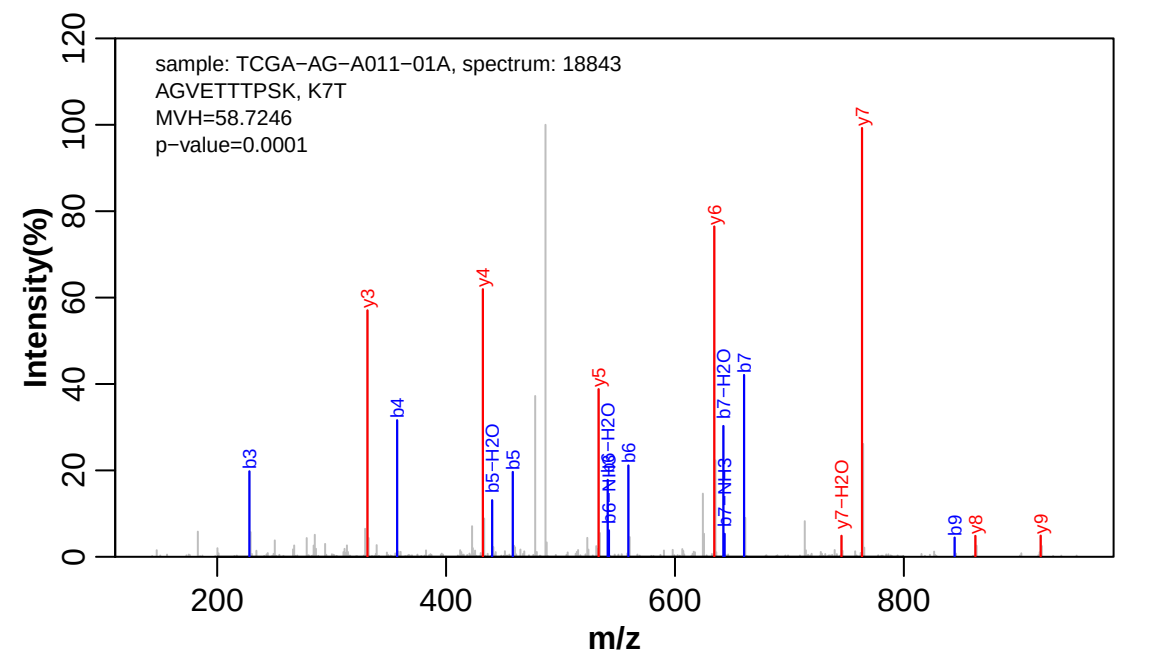

sample: TCGA−AG−A00Y−01A, spectrum: 127504
VQVLAAQLLSEMK, D11E
MVH=57.4224
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5
b5−NH3
b6−NH3
y5
b7−H2O−NH3
y8−H2O
y7
b8−H2O
y7−NH3
b9
b9−NH3
y8−NH3
y8
y9
b10
b10−NH3
y10−H2O
y10
b11−NH3
b11
y11
b12

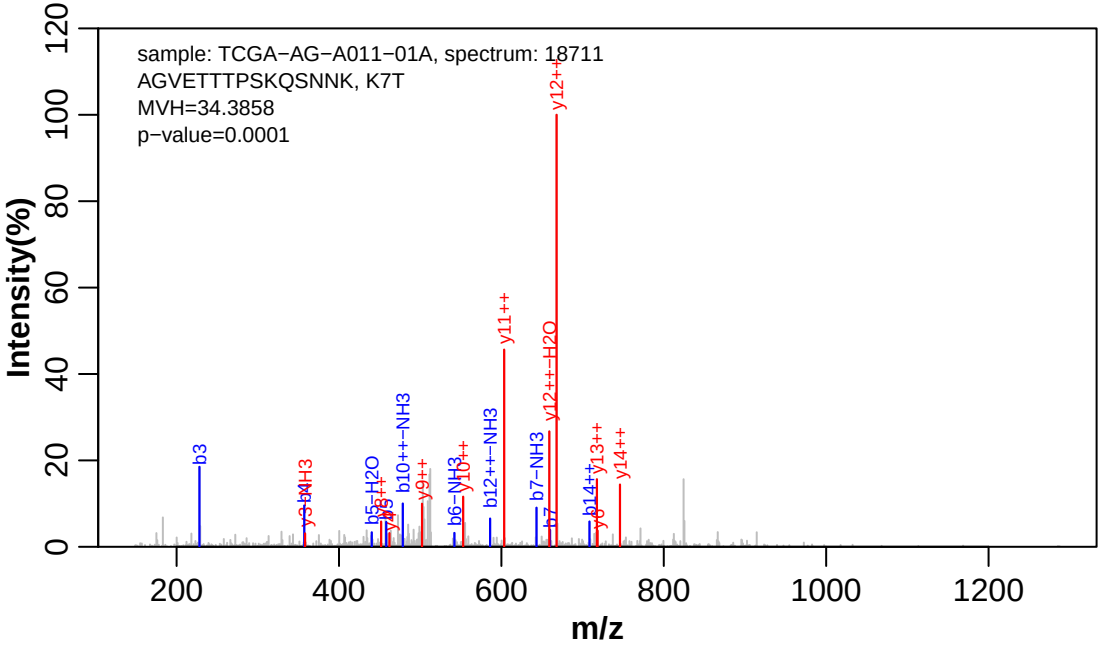

sample: TCGA−AG−A00Y−01A, spectrum: 63108
VSYGLGEEEHDQEGR, D7E
MVH=41.5429
p−value=0.0001
Intensity(%)
m/z
y13++
y10++
y12++
y14++
y11++
b5−H2O
b5
b4−NH3
b4−H2O

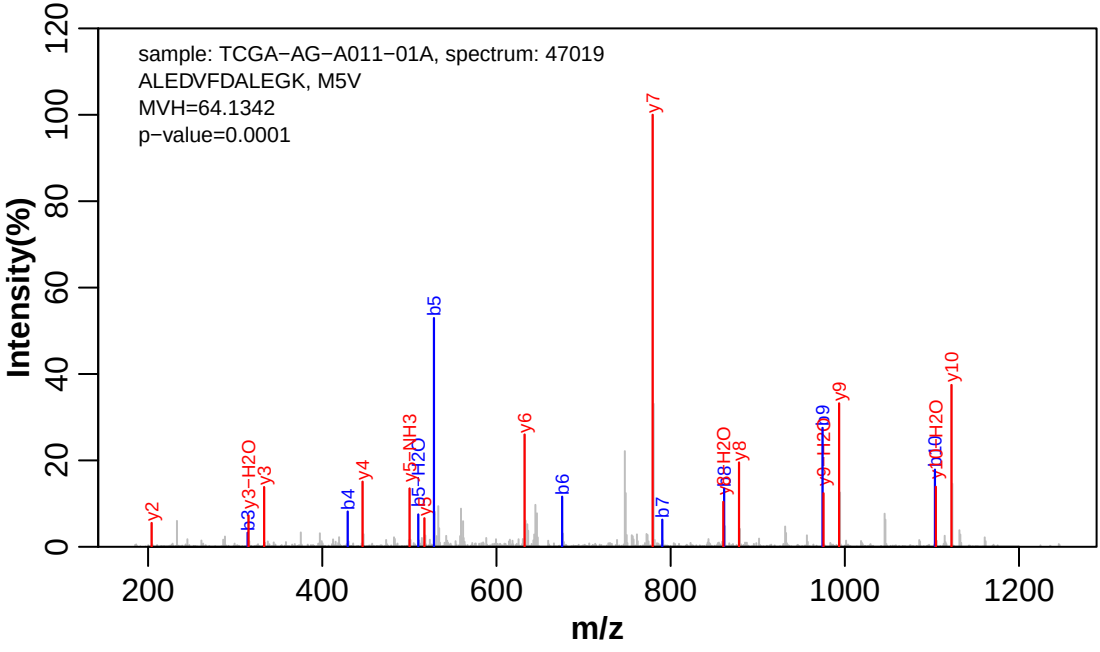

sample: TCGA−AG−A00Y−01A, spectrum: 7814
VVLQPEALFSLYSK, F8L
MVH=36.3351
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y4
b5
y5
b6
y6−H2O
y6
y7
b9
y9
y10
b11−H2O
y11
y12

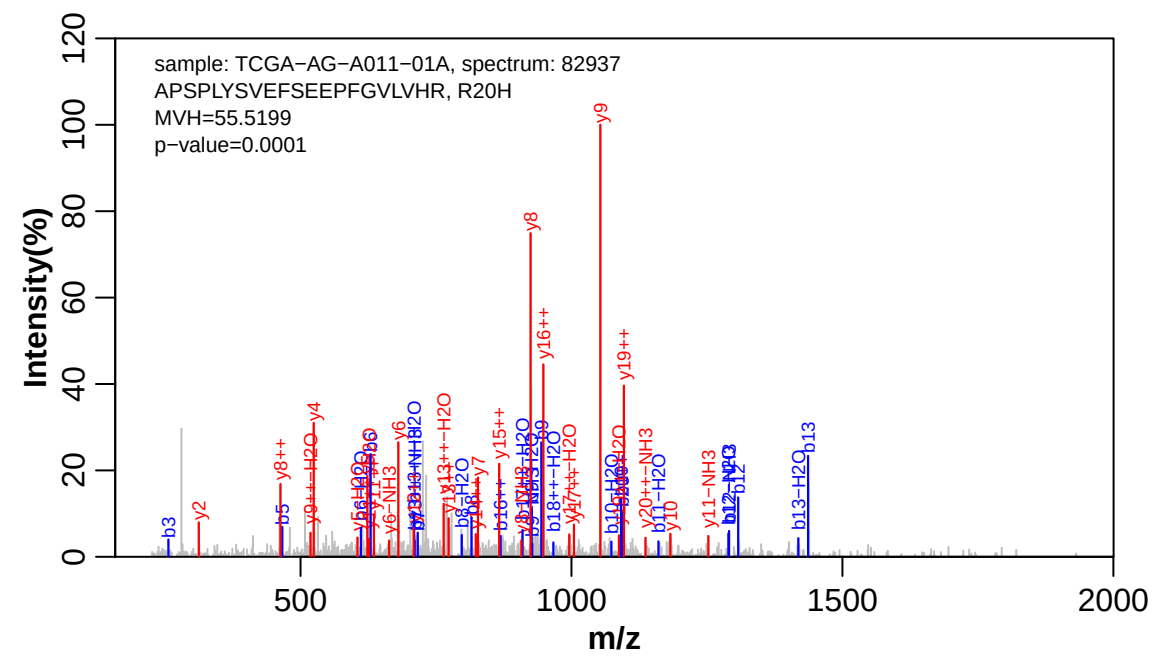

sample: TCGA−AG−A00Y−01A, spectrum: 86190
YVSLLYTNYEAGK, I2V
MVH=34.9344
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y8
y9
y11
y7
b7−NH3
b4−H2O
b3−H2O
b5
y6
y6−H2O
b6
y9−H2O
y10
b10
b12
b4
b7
b7−H2O
y4
y3
b2

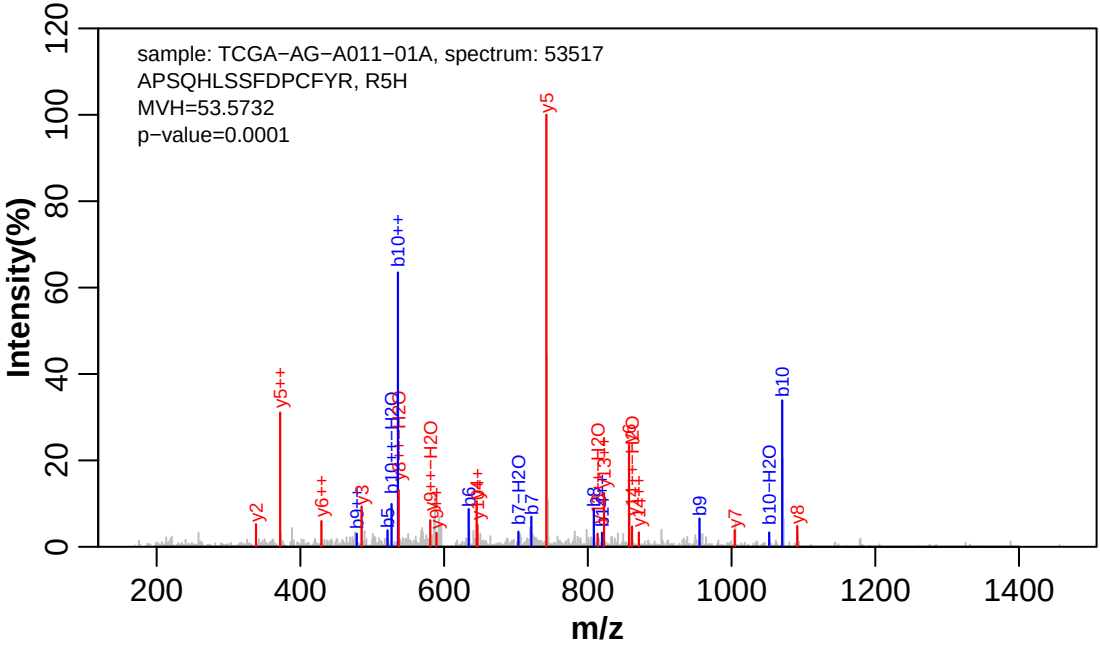

sample: TCGA−AG−A011−01A, spectrum: 54203
AAPSVTLFPPSSEELQANK, T2A
MVH=54.3995
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y13
y14
b7−H2O
b7
b8

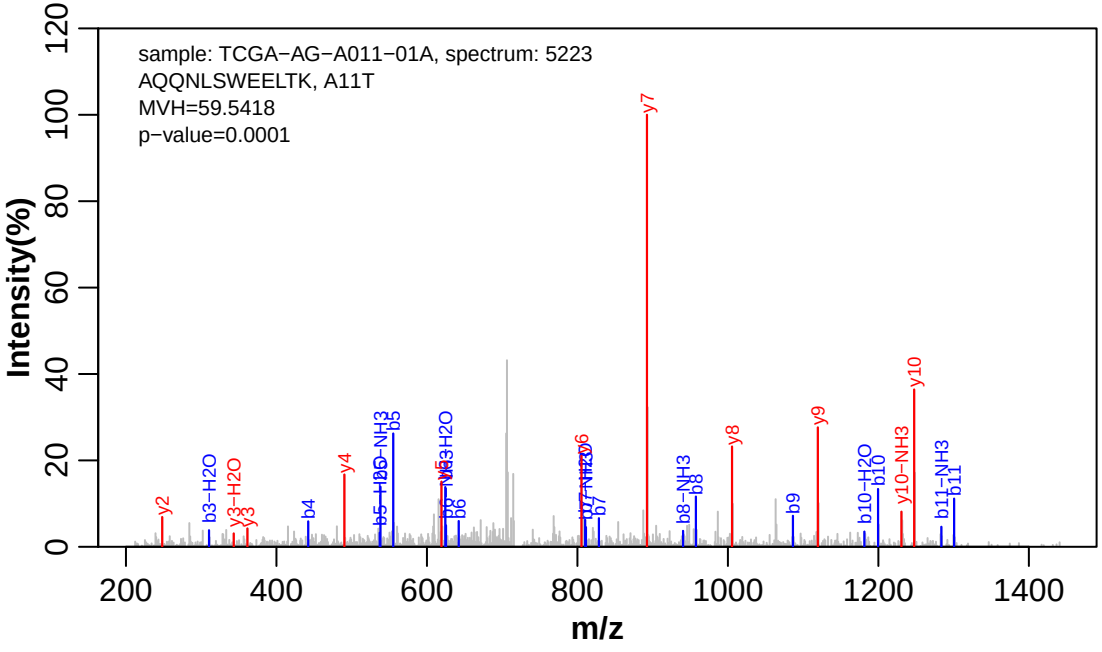

sample: TCGA−AG−A011−01A, spectrum: 18843
AGVETTTPSK, K7T
MVH=58.7246
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b3
y3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−H2O
b7−NH3
b7
y7
y7−H2O
b9
y8
y9

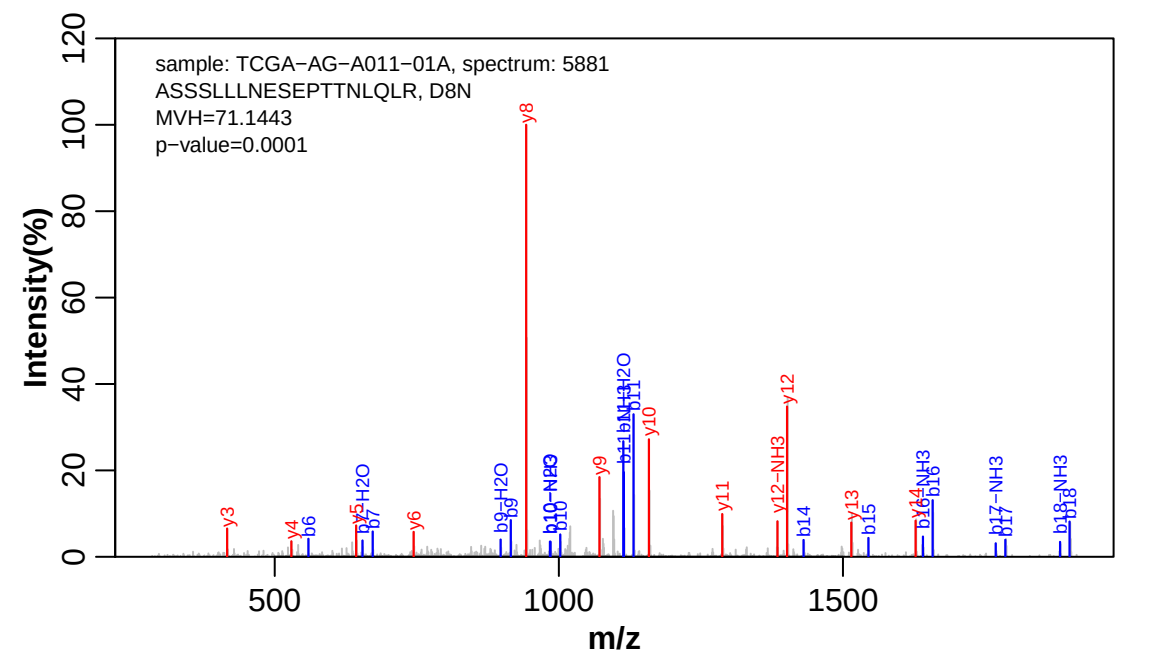

sample: TCGA−AG−A011−01A, spectrum: 18711
AGVETTTPSKQSNNK, K7T
MVH=34.3858
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y3−NH3
b5−H2O
b8++
y8++
b10++−NH3
y9++
b6−NH3
y10++
b12++−NH3
y11++
b7−NH3
y12++−H2O
b7
y12++
b14++
y13++
y14++

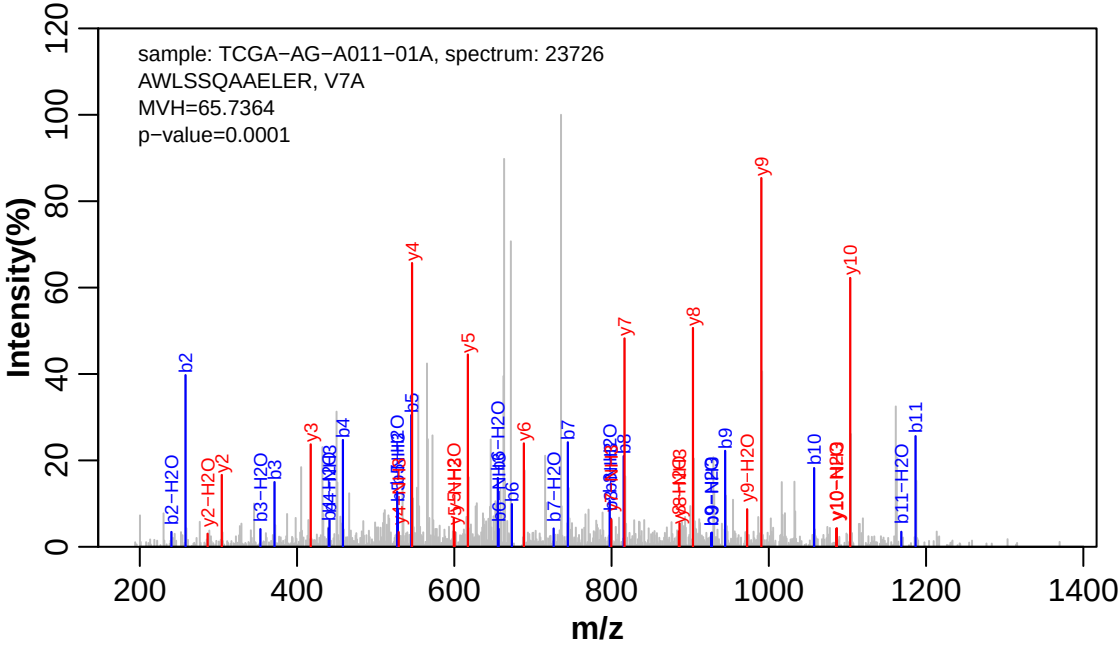

sample: TCGA−AG−A011−01A, spectrum: 47019
ALEDVFDALEGK, M5V
MVH=64.1342
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
y5−NH3
b5−H2O
y5
b5
y6
b6
y7
b7
y8−H2O
y8
y9−H2O
y9
y10−H2O
y10

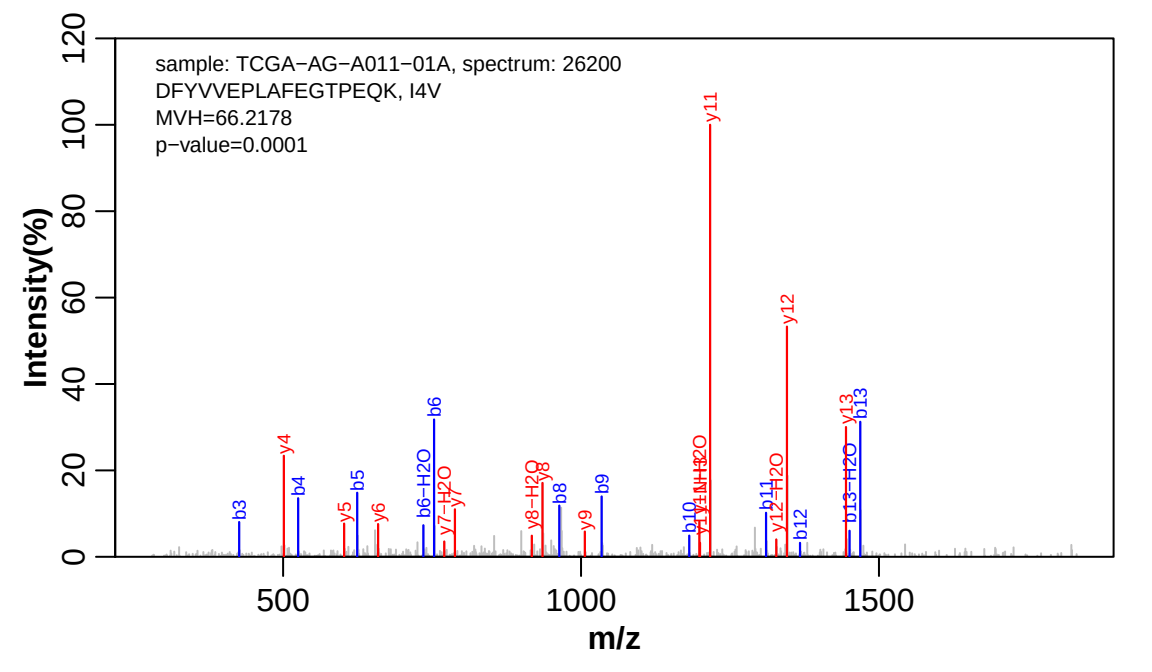

sample: TCGA−AG−A011−01A, spectrum: 82937
APSPLYSVEFSEEPFGVLVHR, R20H
MVH=55.5199
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y2
b5
y8++
y9++−H2O
y4
y6−NH3
y6
y13++−H2O
y7
y15++
y8
y16++
y9
y19++
b18++−H2O
y17++−H2O
b10−H2O
y20++−NH3
b23−H2O
y10
y11−NH3
b12
b13−H2O
b13

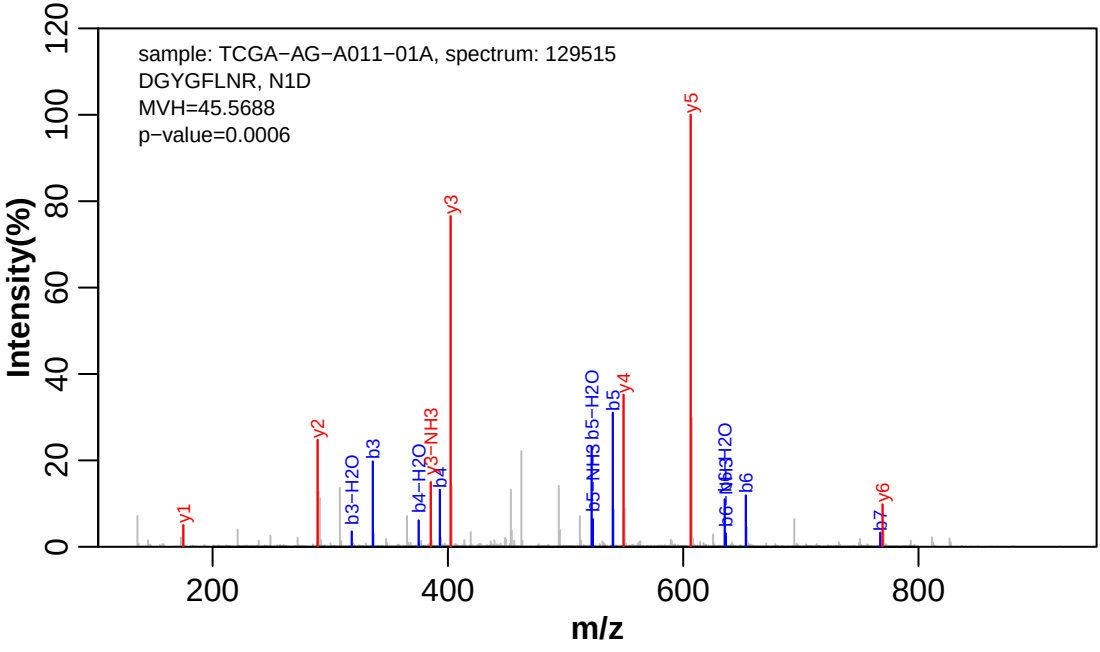

sample: TCGA−AG−A011−01A, spectrum: 53517
APSQHLSSFDPCFYR, R5H
MVH=53.5732
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
b10++
y5++
b10
y2
y6++
b9++
y3
b5
b10++−H2O
y9++−H2O
b6
y10++
b7−H2O
b7
y13++−H2O
y14++−H2O
b9
y7
b10−H2O
y8

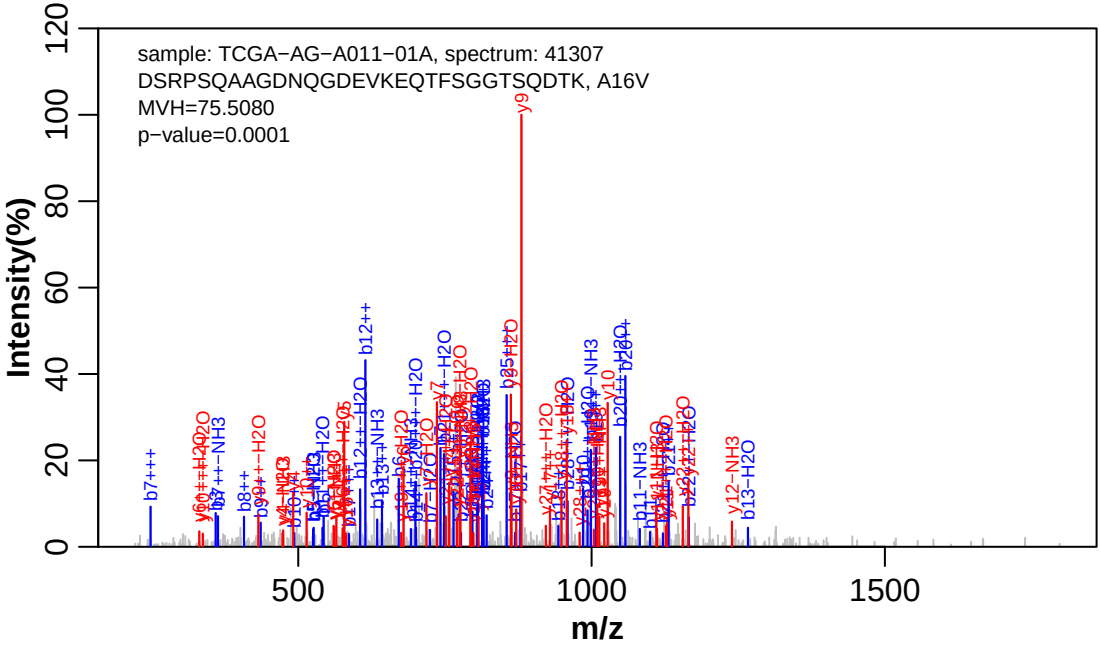

sample: TCGA−AG−A011−01A, spectrum: 5223
AQQNLSWEELTK, A11T
MVH=59.5418
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3−H2O
y3−H2O
y3
b4
y4
b5−H2O
b5−NH3
b5
b6−NH3
b6−H2O
b6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8
y8
b9
y9
b10−H2O
b10
y10−NH3
y10
b11−NH3
b11

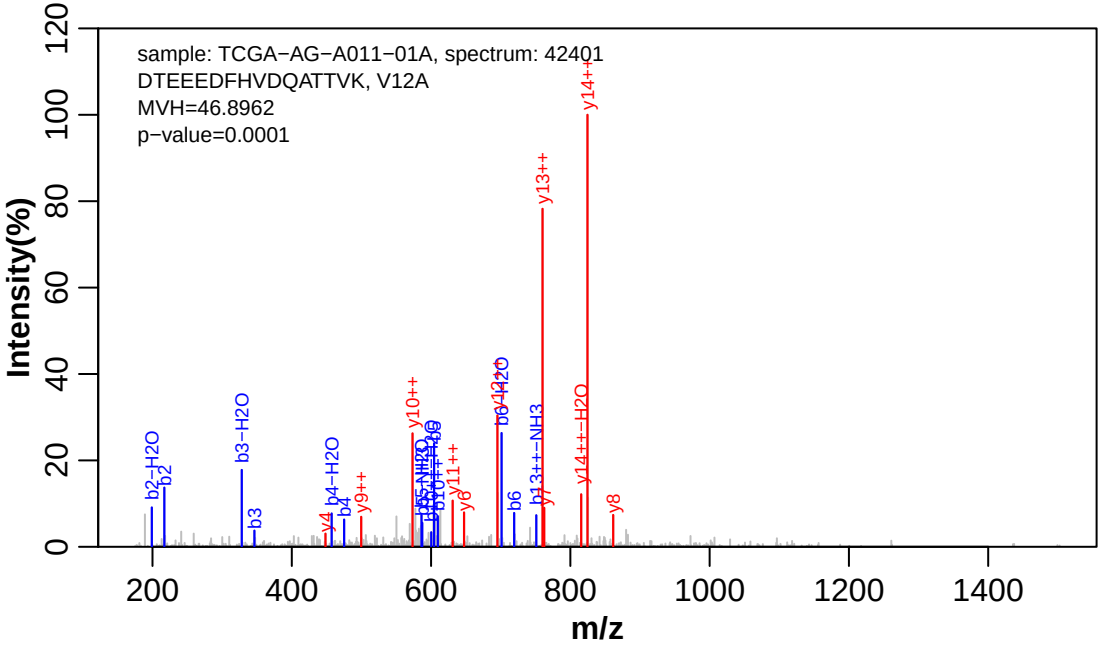

sample: TCGA−AG−A011−01A, spectrum: 5881
ASSSLLLNESEPTTNLQLR, D8N
MVH=71.1443
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y3
y4
b6
y5
y5−H2O
b7
y6
b9−H2O
b9
b10−NH3
b10
y9
b11−NH3−H2O
b11
y10
y11
y12
y12−NH3
b14
y13
b15
y14
y14−NH3
b16
b17−NH3
b17
b18−NH3
b18

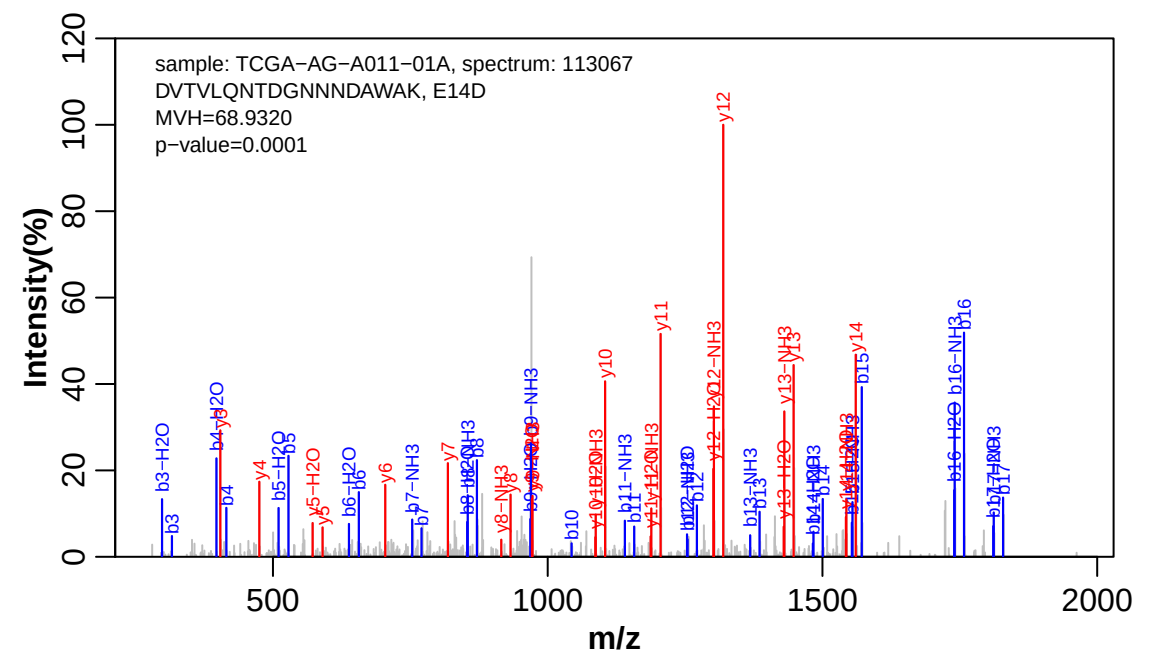

sample: TCGA−AG−A011−01A, spectrum: 23726
AWLSSQAAELER, V7A
MVH=65.7364
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b2−H2O
y2−H2O
y2
b3−H2O
b3
y3
b4
y4
b5
y5
y5−NH3
y5−H2O
b6−NH3
b6−H2O
b6
y6
b7−H2O
b7
y7
b8
y8
b9
y9−H2O
y9
b10
y10
b11−H2O
b11

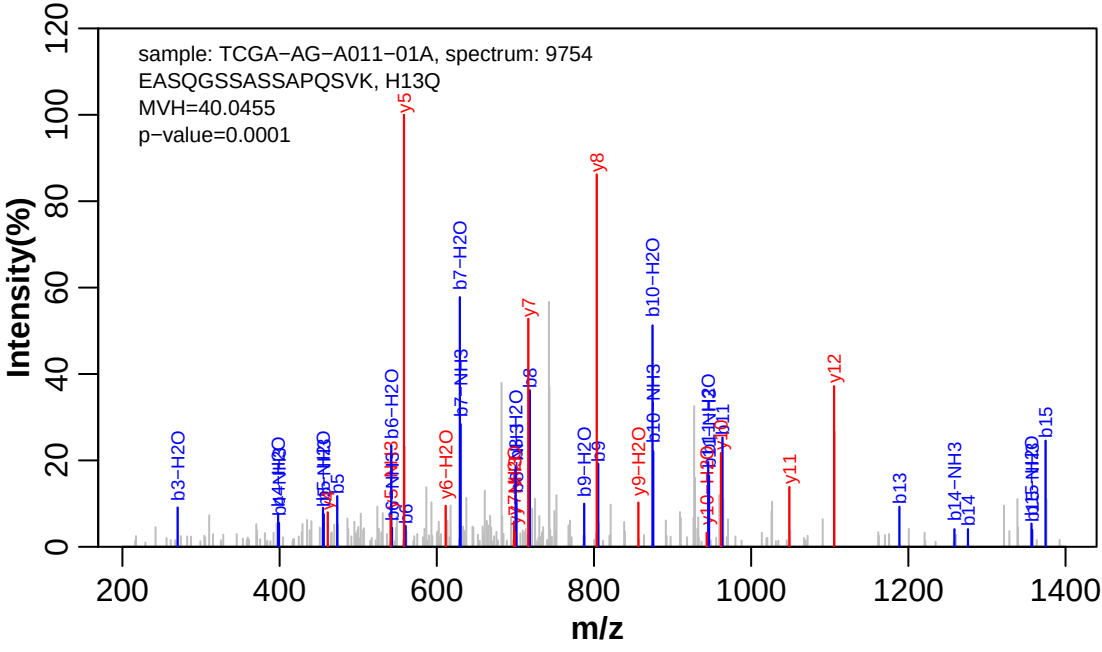

sample: TCGA−AG−A011−01A, spectrum: 26200
DFYVVEPLAFEGTPEQK, I4V
MVH=66.2178
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6
b6
b6−H2O
y7−H2O
y8−H2O
y8
b8
y9
b9
b10
y11−NH3
y11−H2O
y11
y12
b11
y12−H2O
b12
b13−H2O
y13
b13

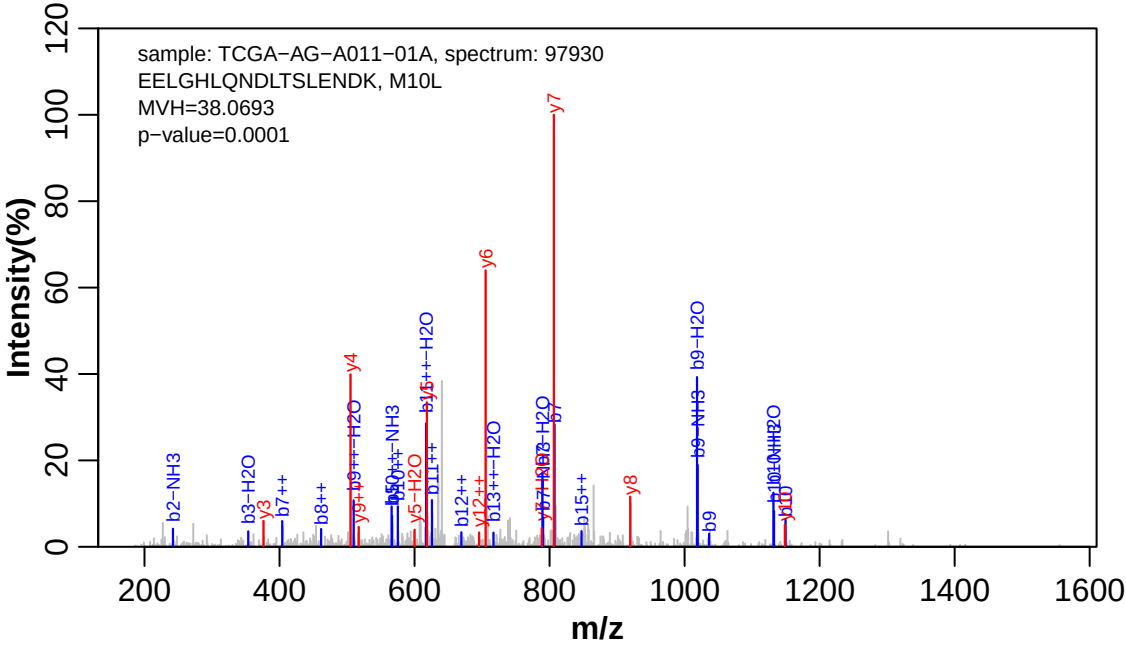

sample: TCGA−AG−A011−01A, spectrum: 129515
DGYGFLNR, N1D
MVH=45.5688
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

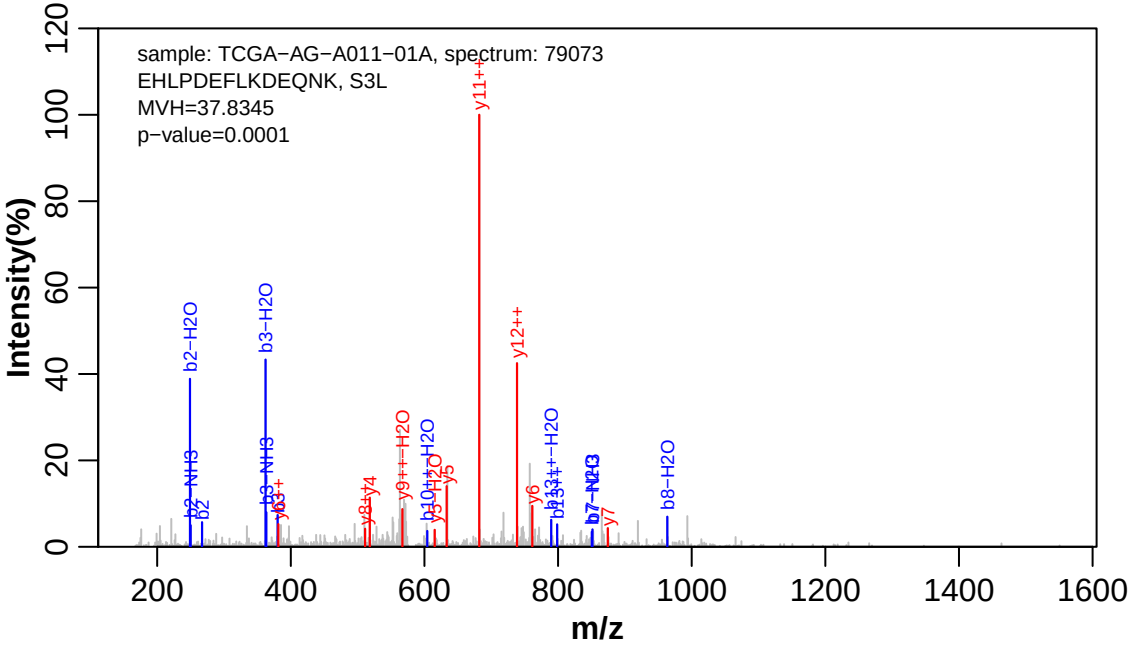

sample: TCGA−AG−A011−01A, spectrum: 41307
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=75.5080
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
b7+++
b12++
b13+−NH3
b13+−H2O
y12−NH3
b13−H2O

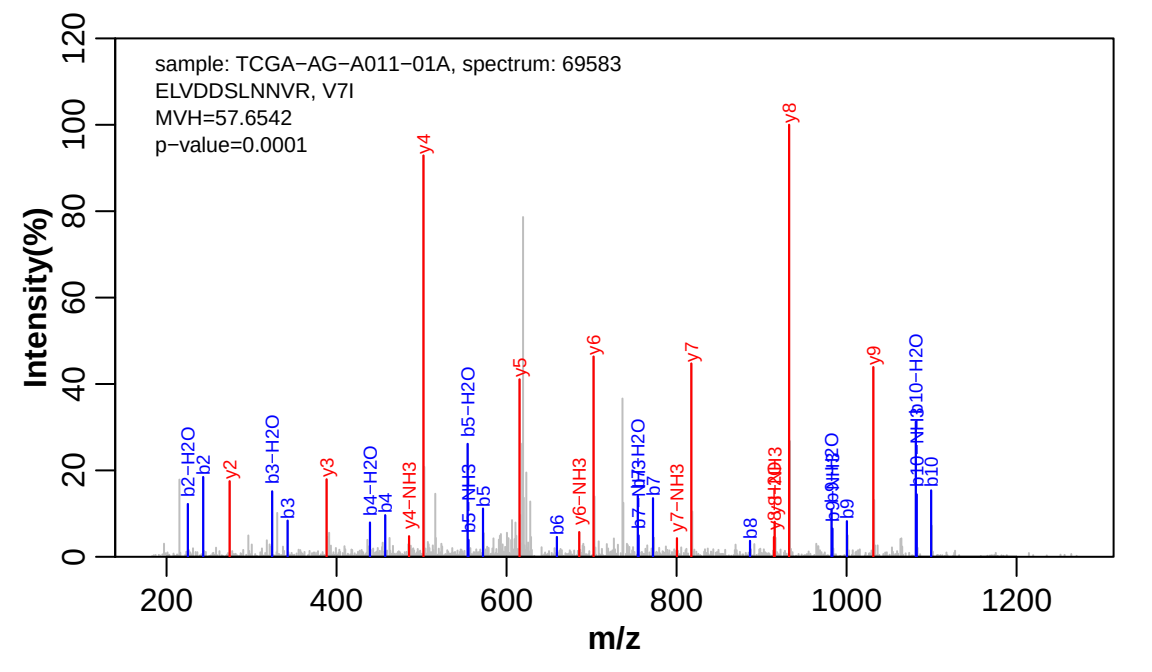

sample: TCGA−AG−A011−01A, spectrum: 42401
DTEEEDFHVDQATTVK, V12A
MVH=46.8962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b2
b3−H2O
b3
b4−H2O
b4
y9++
y4
y10++
y11++
y8
b6−H2O
b6
y13++−NH3
y7
y14++−H2O
y14++
y13++
y8

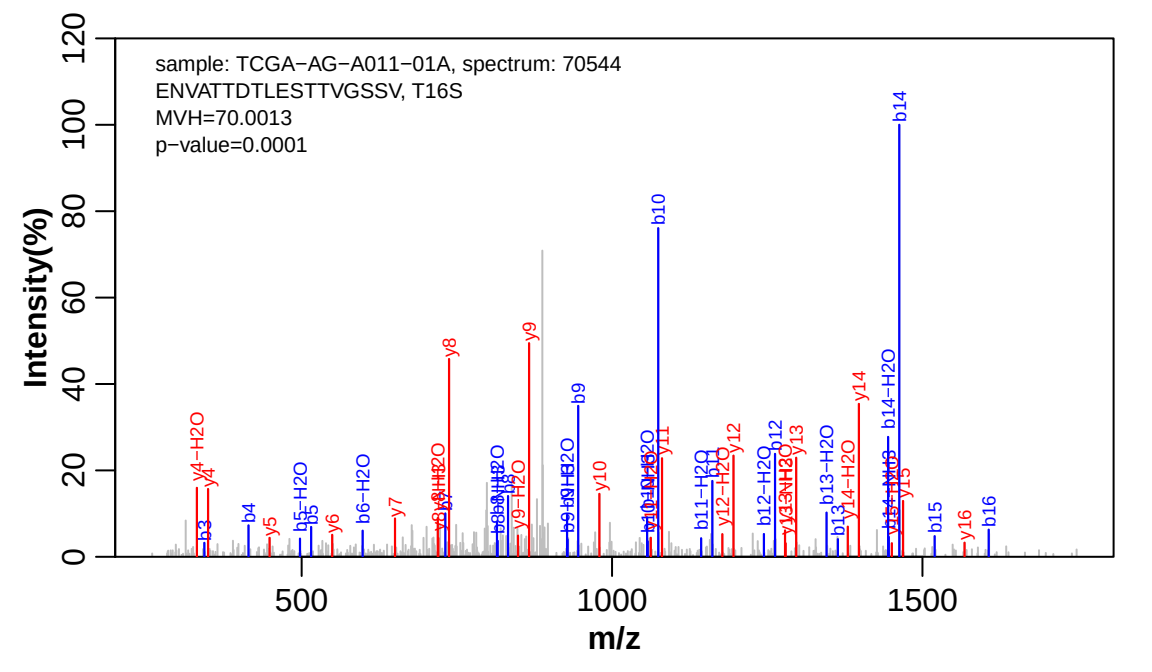

sample: TCGA−AG−A011−01A, spectrum: 113067
DVTVLQNTDGNNNDAWAK, E14D
MVH=68.9320
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b3
b4
b4−H2O
y4
b5−H2O
b5
y5
y5−H2O
b6−H2O
b6
y6
b7−NH3
b7
y7
y8−NH3
y8
b10
y10
b11−NH3
b11
y11
y11−H2O−NH3
b12
y12
y12−H2O
y12−NH3
b13−NH3
b13
y13−H2O
y13−NH3
y13
b15
y14
b16−H2O
b16−NH3
b16
b17

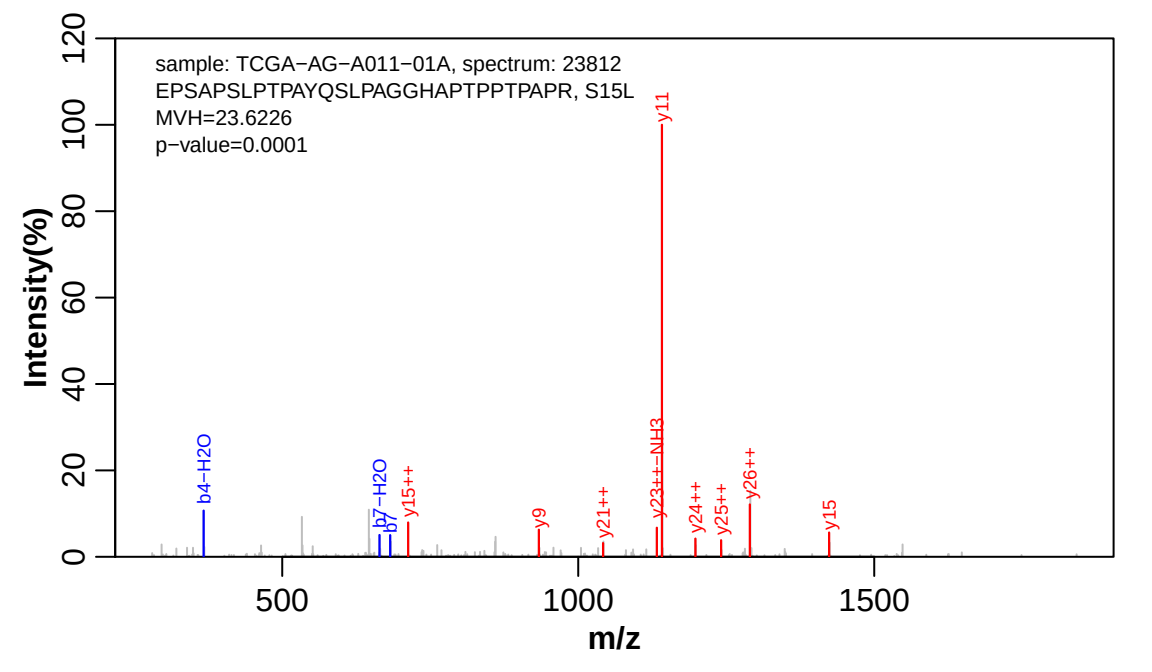

sample: TCGA−AG−A011−01A, spectrum: 9754
EASQGSSASSAPQSVK, H13Q
MVH=40.0455
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
b7−H2O
y7
b10−H2O
b6−H2O
b7−NH3
y12
b3−H2O
y6−H2O
b9−H2O
y9−H2O
b10−NH3
y11
b13
b14−NH3
b14
b15

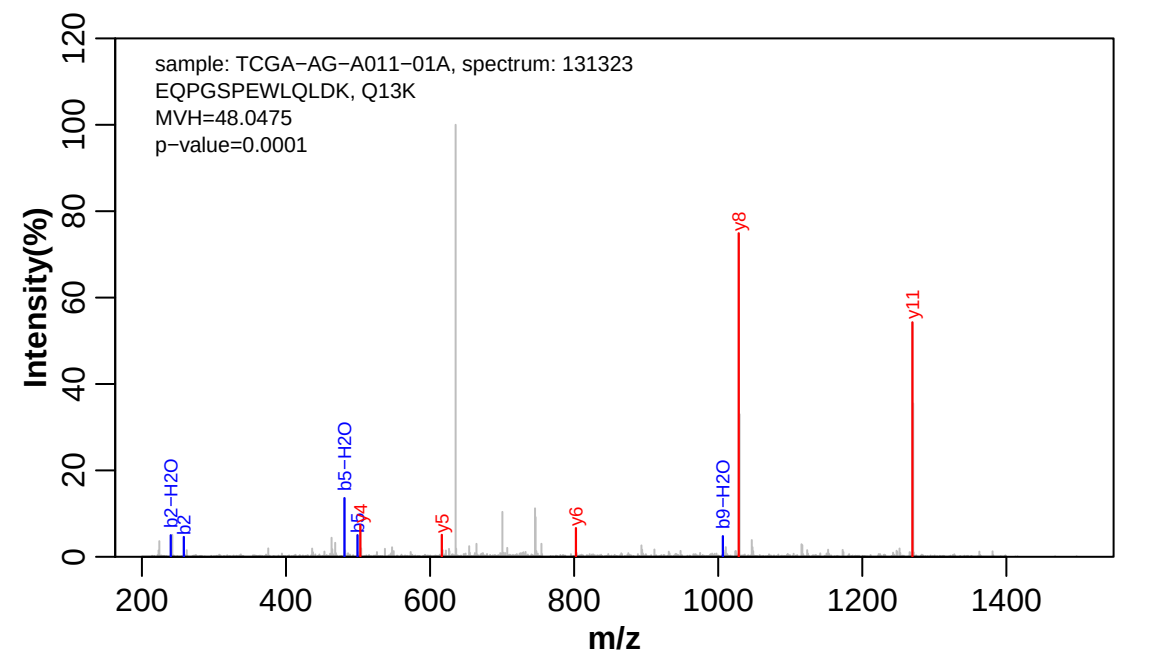

sample: TCGA−AG−A011−01A, spectrum: 97930
EELGHLQNDLTSLENDK, M10L
MVH=38.0693
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2−NH3
b3−H2O
y3
b7++
b8++
y4
y3+b9++−H2O
b5++−NH3
y5−H2O
b11++
b5++−H2O
b12++
y12++
b13++−H2O
y6
y7
b7
y8
b15++
b9−H2O
b9−NH3
b9
y10

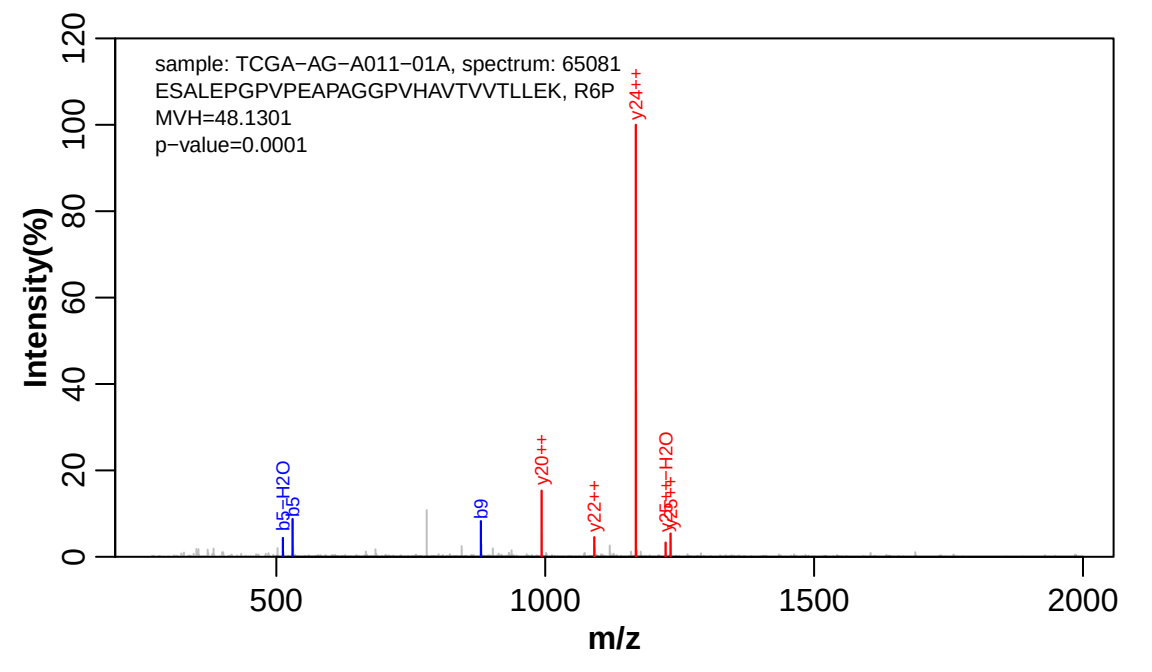

sample: TCGA−AG−A011−01A, spectrum: 79073
EHLPDEFLKDEQNK, S3L
MVH=37.8345
p−value=0.0001
Intensity(%)
m/z
y11++
y12++
b2−H2O
b3−H2O
y9++−H2O
b10++−H2O
b13++−H2O
b8−H2O
y5
y6
y7
b2−NH3
b2
b3−NH3
y3++
y8+y4
b7−NH3

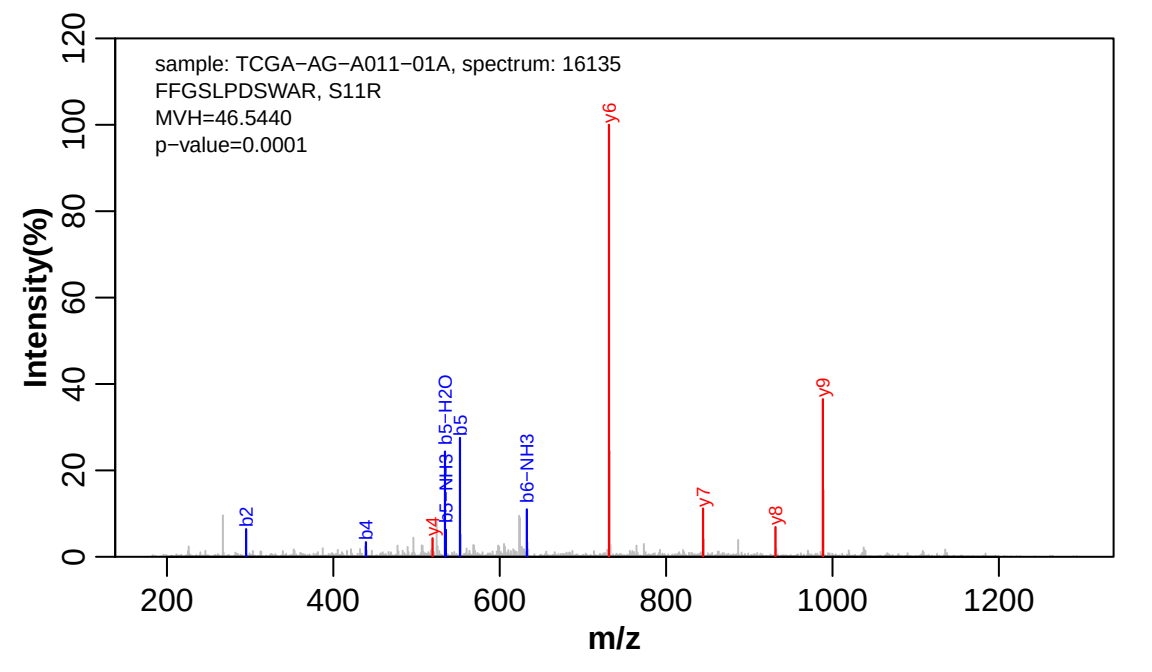

sample: TCGA−AG−A011−01A, spectrum: 69583
ELVDDSLNNVR, V7I
MVH=57.6542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y4
y8
y5
y6
y7
y9
y2
y3
b2−H2O
b2
b3−H2O
b3
b4−H2O
b4
y4−NH3
b5−NH3
b5−H2O
b5
b6
y6−NH3
b7−NH3
b7−H2O
b7
y7−NH3
b8
b9
b10−NH3
b10−H2O
b10

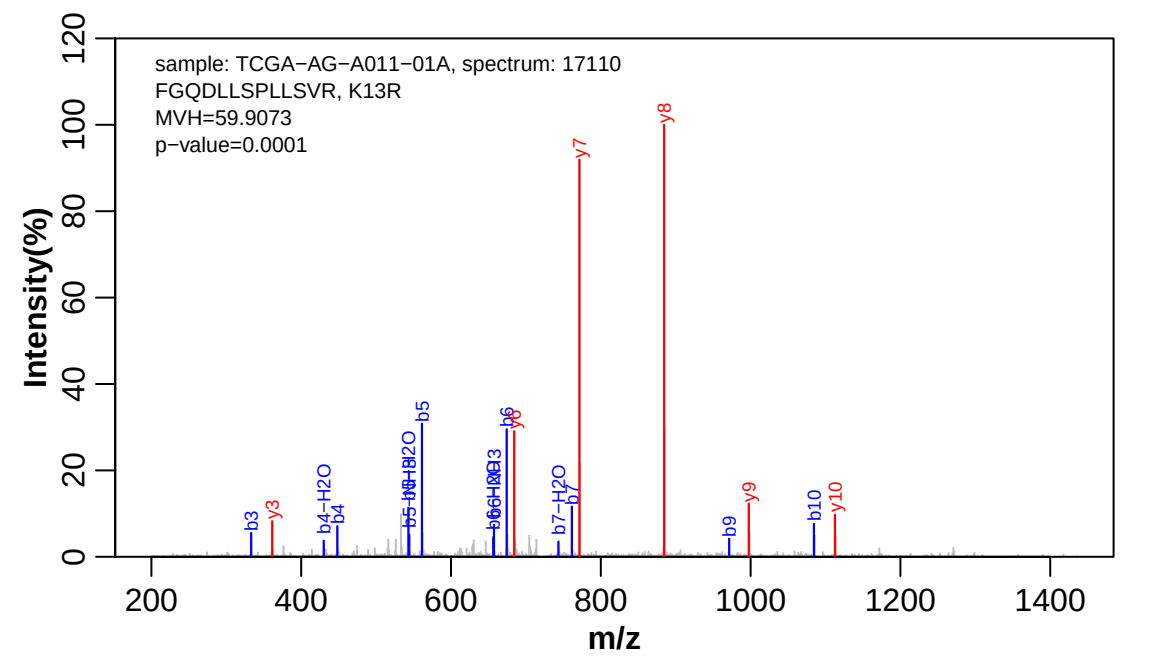

sample: TCGA−AG−A011−01A, spectrum: 70544
ENVATTDTLESTTVGSSV, T16S
MVH=70.0013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b14
b10
y9
y8
b9
y14
b14−H2O
y10
y11
y12
y13
b13−H2O
y14−H2O
y4−H2O
b6−H2O
b12−H2O
b11−H2O
y12−H2O
y15
b15
y16
b16
b4
y5
b5−H2O
b5
y6
y7
y4
b3

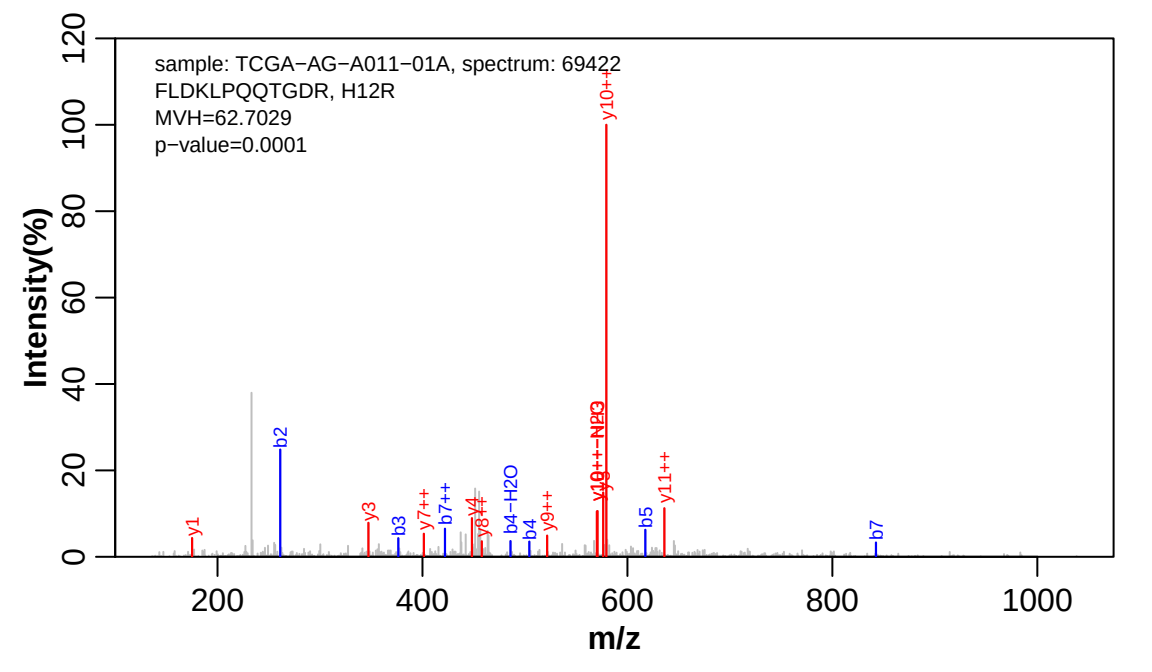

sample: TCGA−AG−A011−01A, spectrum: 23812
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=23.6226
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b4−H2O
b7−H2O
b7
y15++
y9
y21++
y23++−NH3
y11
y24++
y25++
y26++
y15

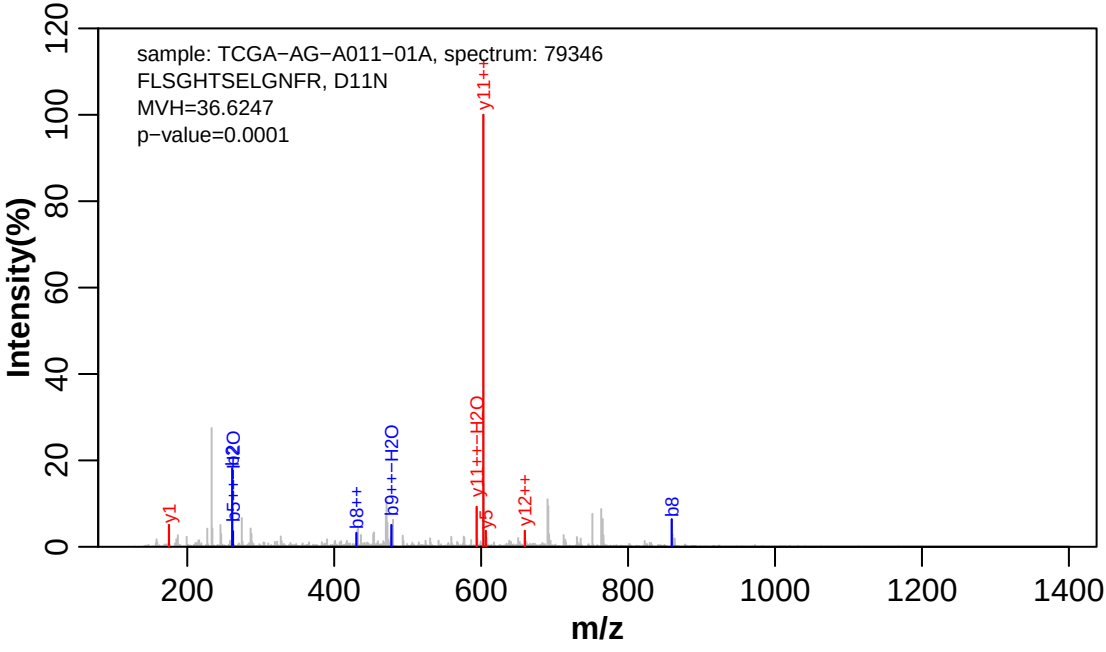

sample: TCGA−AG−A011−01A, spectrum: 131323
EQPGSPEWLQLDK, Q13K
MVH=48.0475
p−value=0.0001
Intensity(%)
m/z
b2−H2O
b2
b5−H2O
b4
y5
y6
b9−H2O
y8
y11

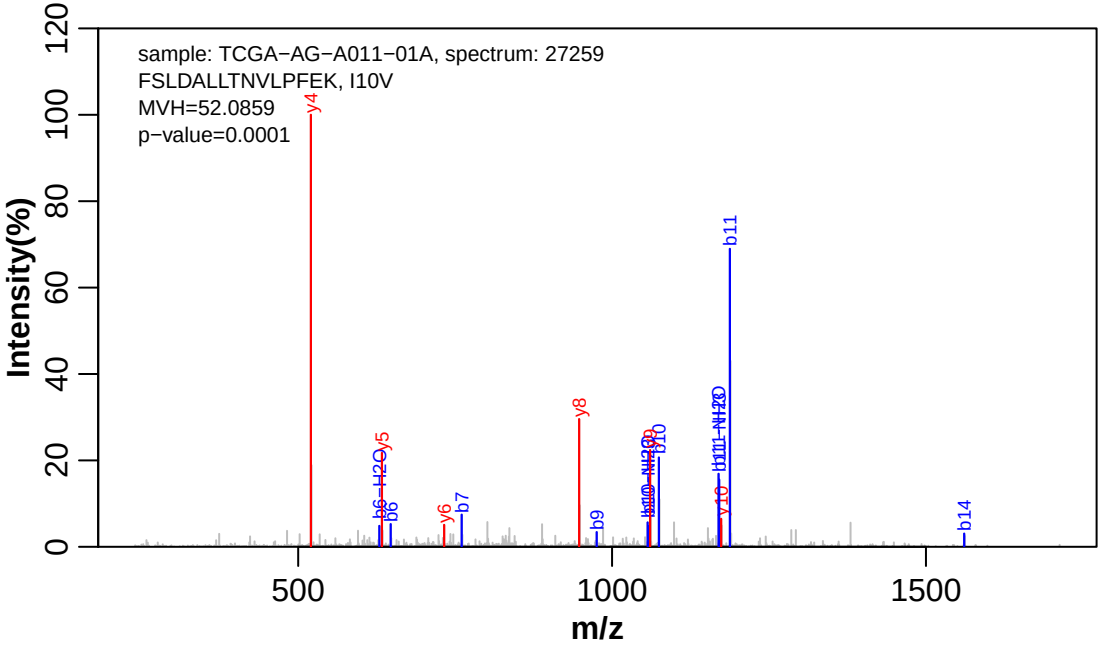

sample: TCGA−AG−A011−01A, spectrum: 65081
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=48.1301
p−value=0.0001
Intensity(%)
m/z
y24++
y20++
y22++
b9
b5
b5−H2O
y25++−H2O

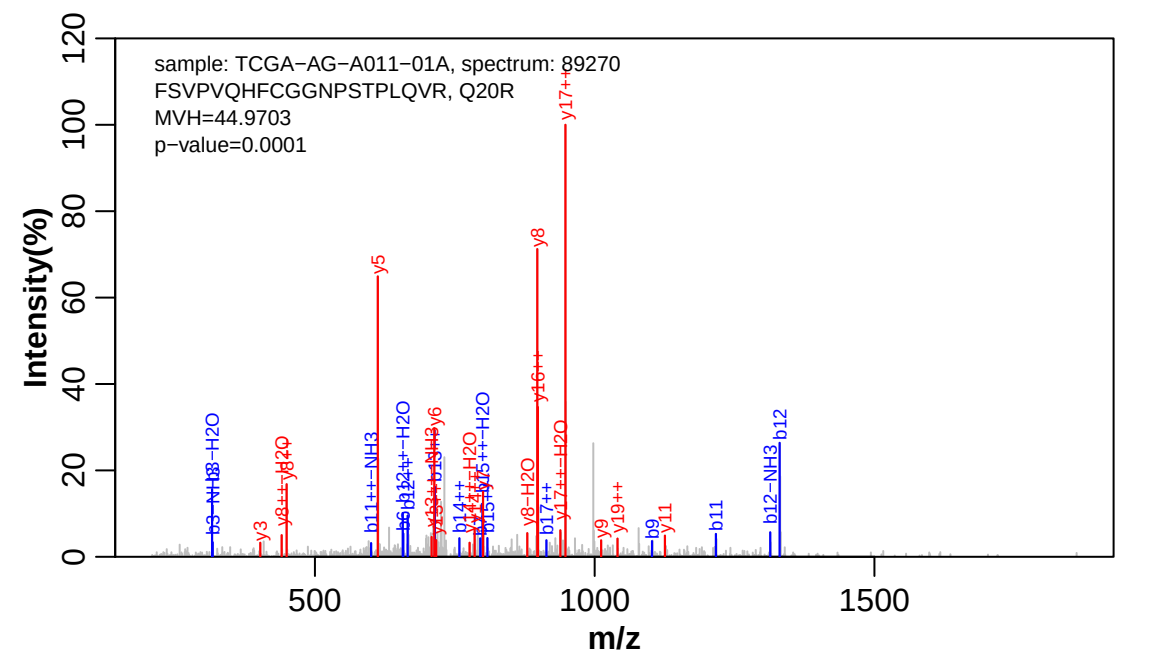

sample: TCGA−AG−A011−01A, spectrum: 16135
FFGSLPDSWAR, S11R
MVH=46.5440
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

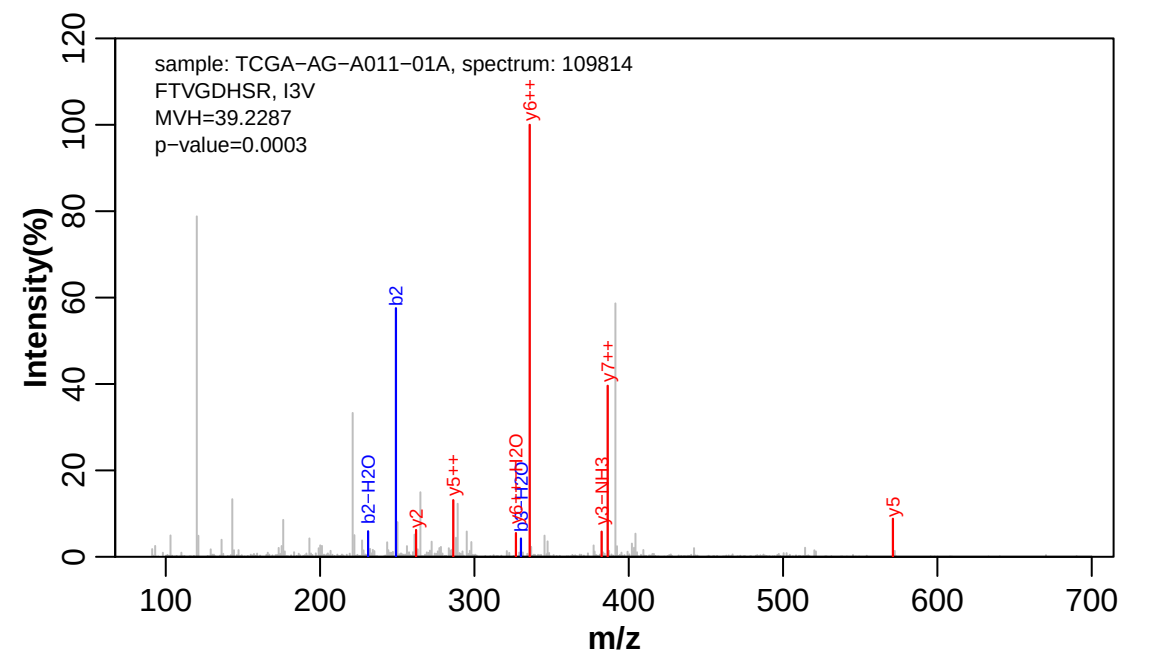

sample: TCGA−AG−A011−01A, spectrum: 17110
FGQDLLSPLLSVR, K13R
MVH=59.9073
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b7−H2O
b7
y7
y8
b9
y9
b10
y10

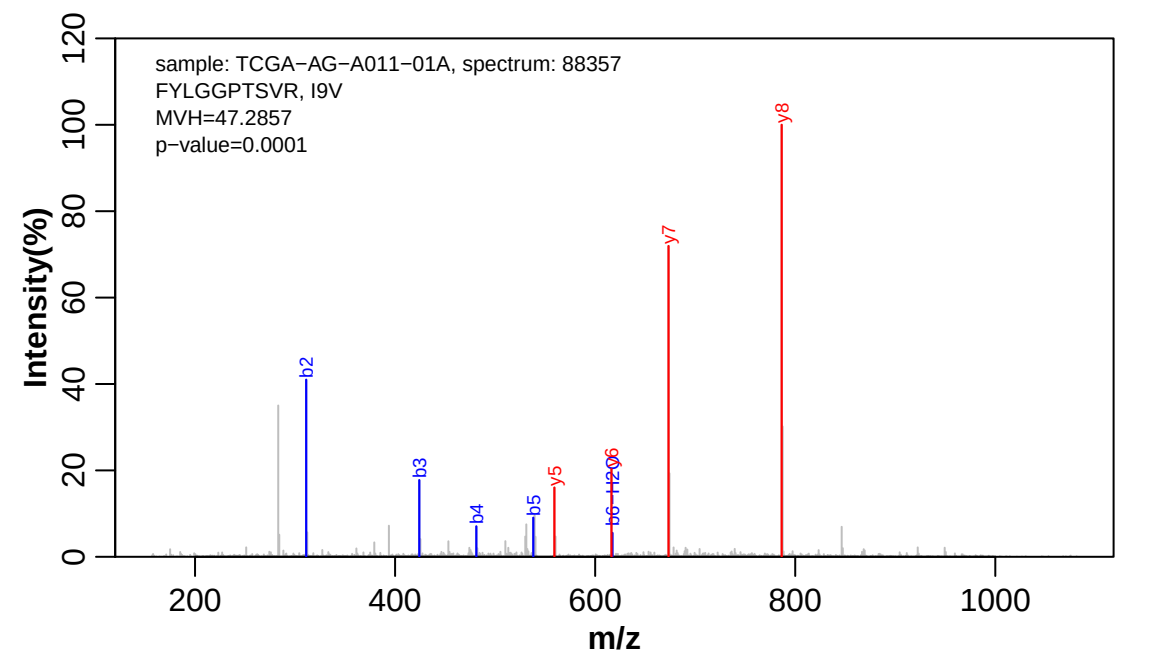

sample: TCGA−AG−A011−01A, spectrum: 69422
FLDKLPQQTGDR, H12R
MVH=62.7029
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y3
b3
y7++
b7++
y8++
y4
b4−H2O
b4
y9++
y10++
y10++−NH3
y10++−H2O
y11++
b5
b7

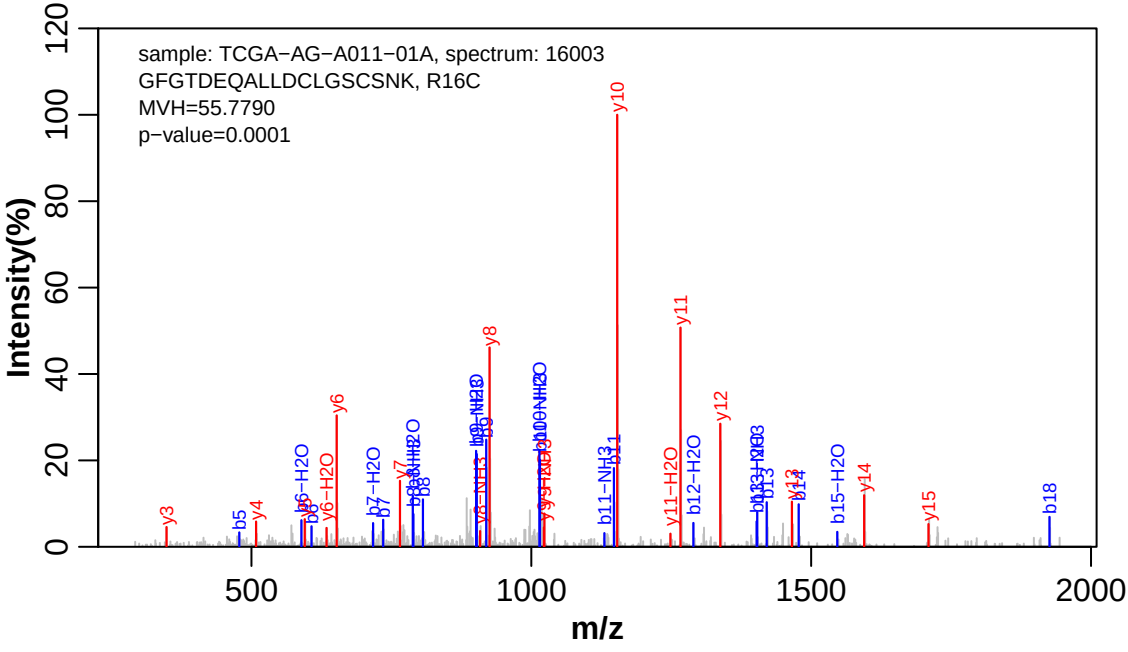

sample: TCGA−AG−A011−01A, spectrum: 79346
FLSGHTSELGNFR, D11N
MVH=36.6247
p−value=0.0001
Intensity(%)
m/z
y1
b5++−H2O
b8++
b9++−H2O
y5
y11++−H2O
y11++
y12++
b8

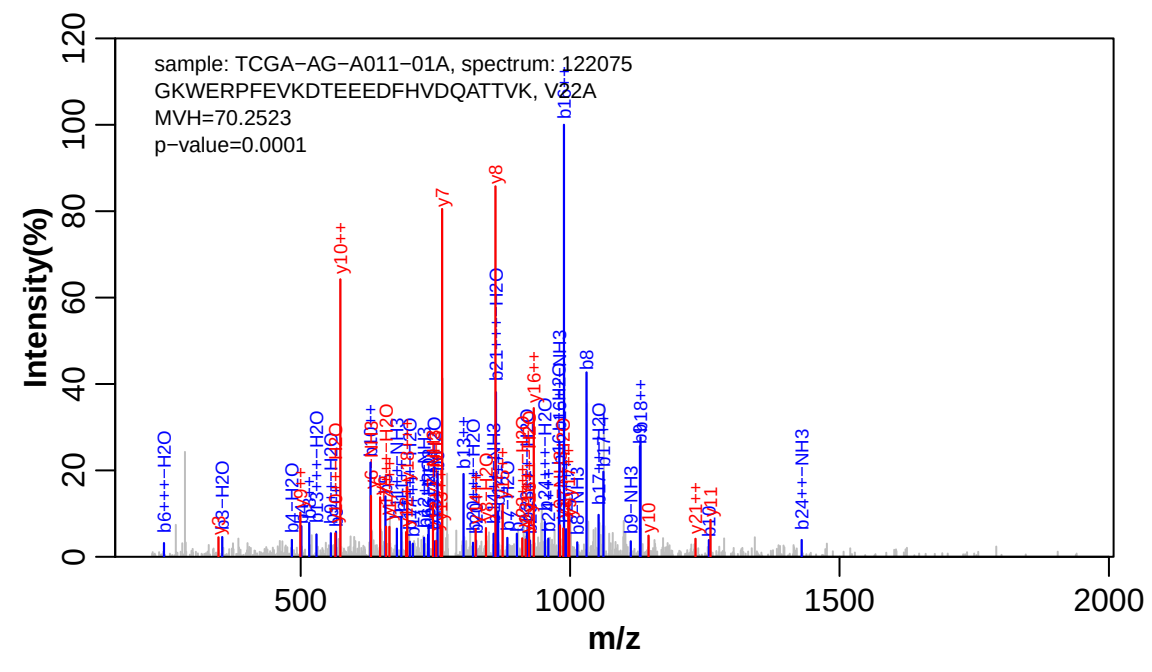

sample: TCGA−AG−A011−01A, spectrum: 27259
FSLDALLTNVLPFEK, I10V
MVH=52.0859
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y8
b6−H2O
b6
b7
b9
b10
b11
b11−NH3
y10
b14

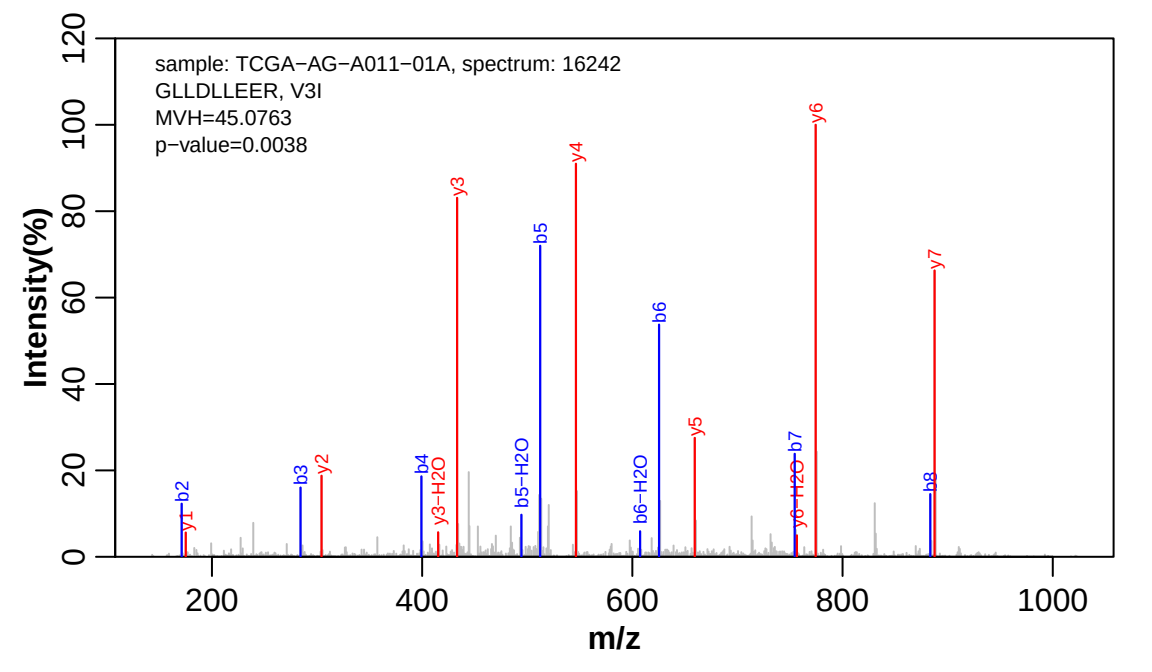

sample: TCGA−AG−A011−01A, spectrum: 89270
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=44.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y8
y5
y16++
y8−H2O
b12
b12−NH3
b11++−NH3
b11++−H2O
b6++−H2O
y17++−H2O
b17++
y19++
y11
b11
b9
y3
y9

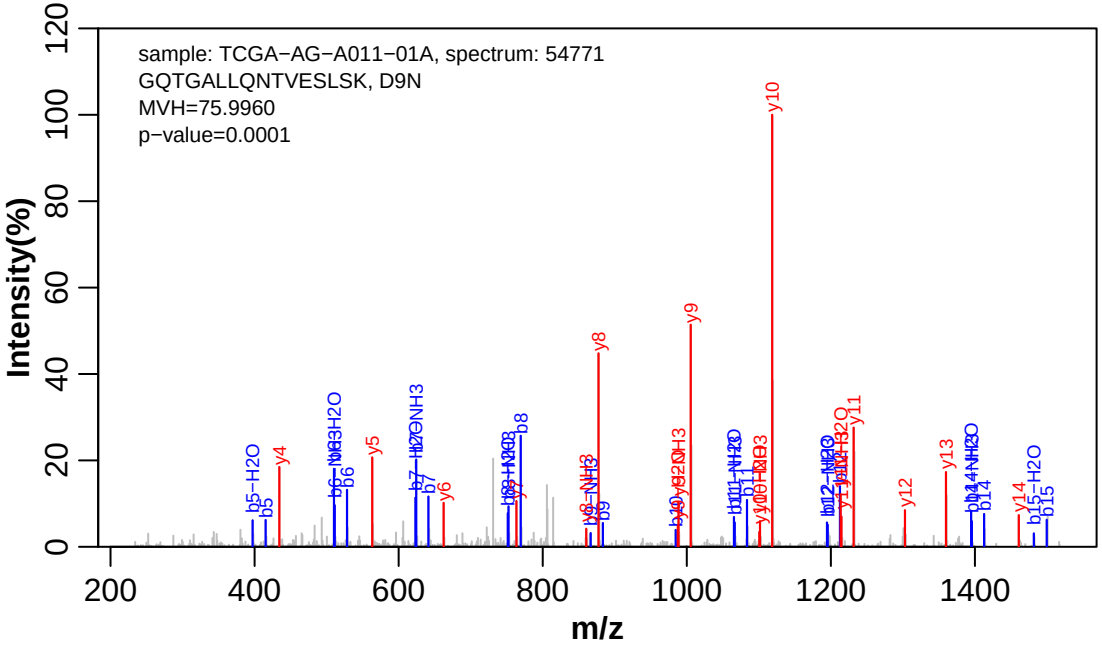

sample: TCGA−AG−A011−01A, spectrum: 109814
FTVGDHSR, I3V
MVH=39.2287
p−value=0.0003
Intensity(%)
m/z
b2
b2−H2O
y2
y5++
y6++−H2O
y6++
y3−NH3
y7++
y5
0
20
40
60
80
100
120
100
200
300
400
500
600
700

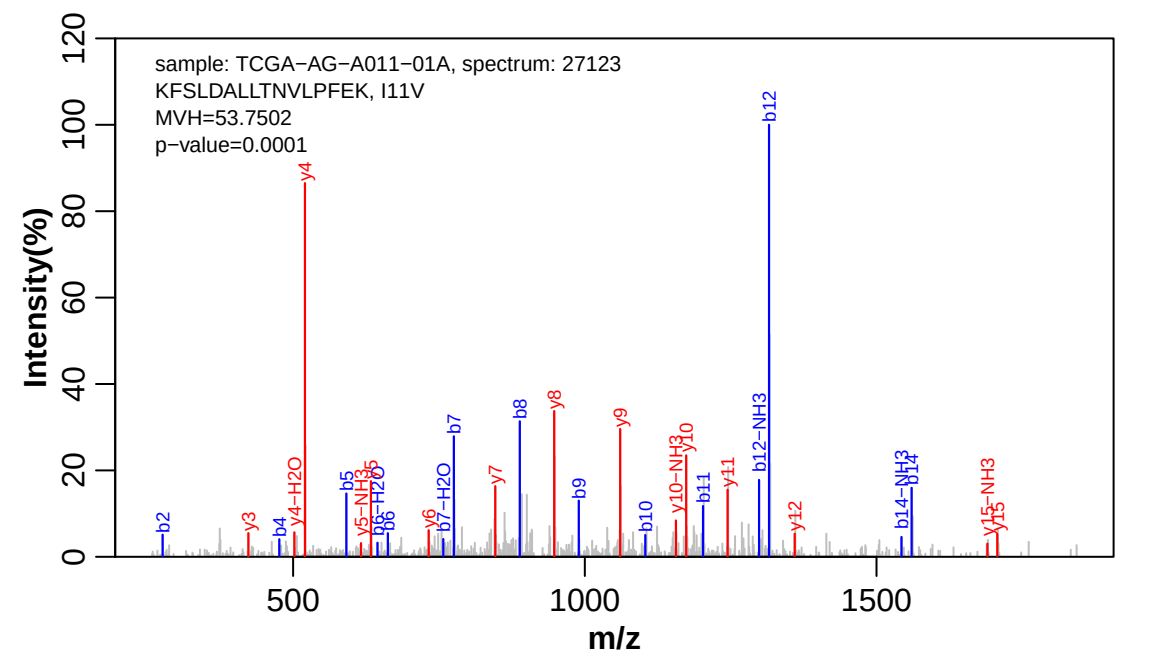

sample: TCGA−AG−A011−01A, spectrum: 88357
FYLGGPTSVR, I9V
MVH=47.2857
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

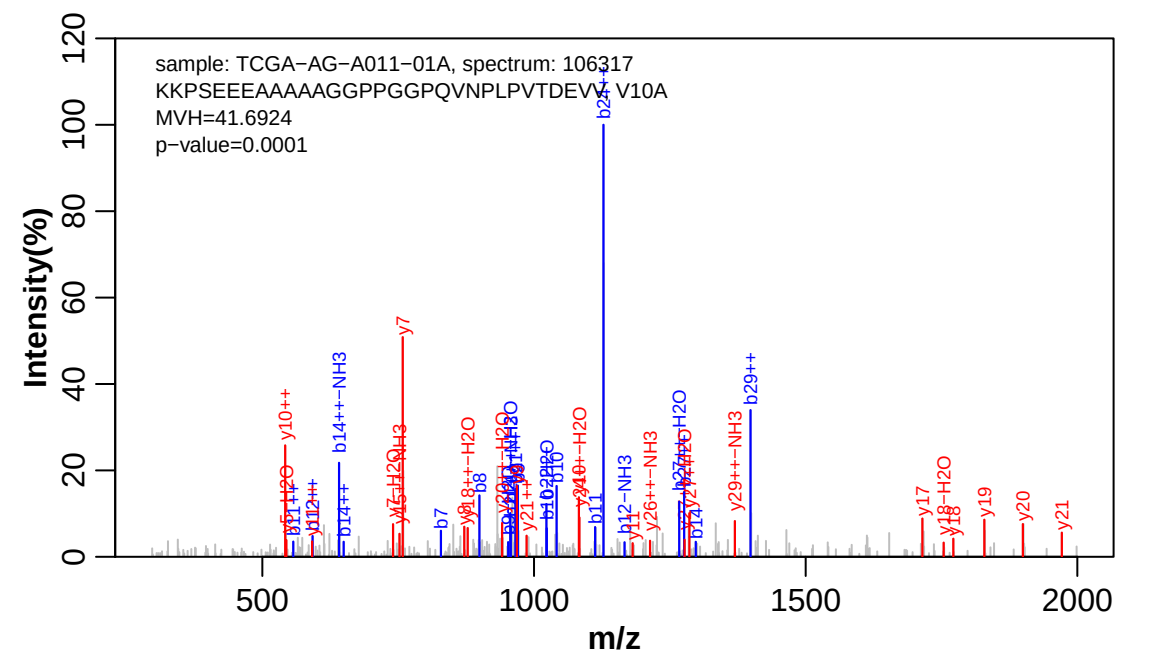

sample: TCGA−AG−A011−01A, spectrum: 16003
GFGTDEQALLDCLGSCSNK, R16C
MVH=55.7790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y12
y6
y14
y15
b18
y3
y4
b5
b15−H2O
b12−H2O
b11−NH3
y11−H2O
y6−H2O
b7−H2O

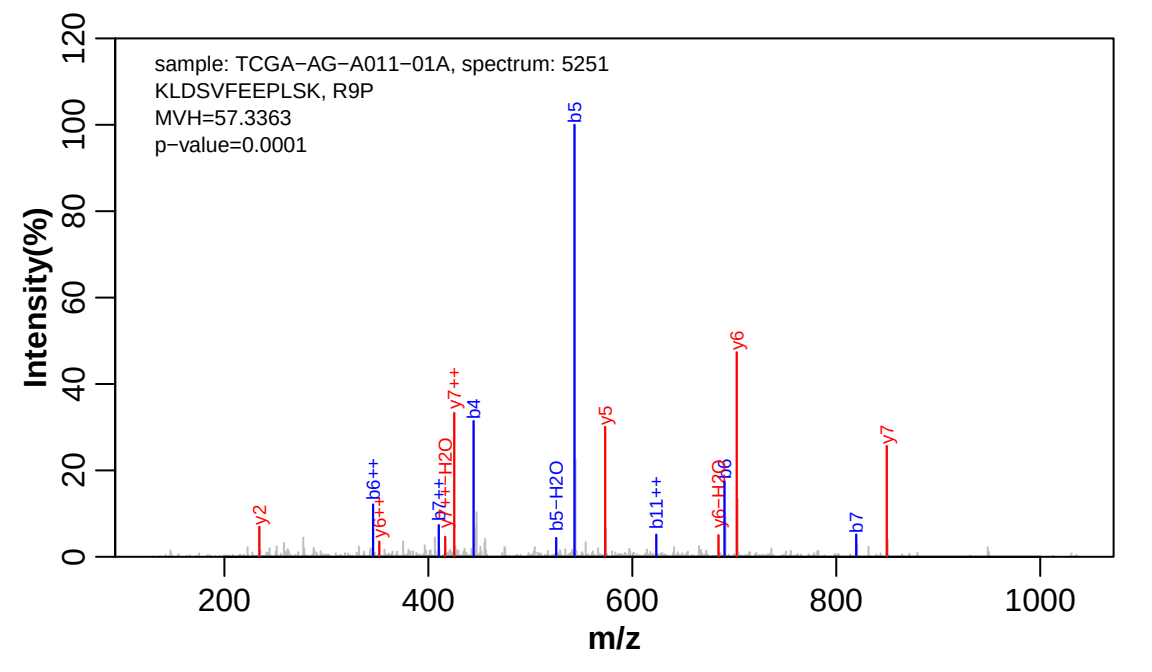

sample: TCGA−AG−A011−01A, spectrum: 122075
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=70.2523
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b6+++−H2O
y3−H2O
b4−H2O
y4++
b3+++−H2O
y5++−H2O
y10++
y6
b10++
y6++−H2O
y7
y8
b12++
b21+++−H2O
y16++
b8
b18++
b9−NH3
y10
y21++
b11
b24++−NH3

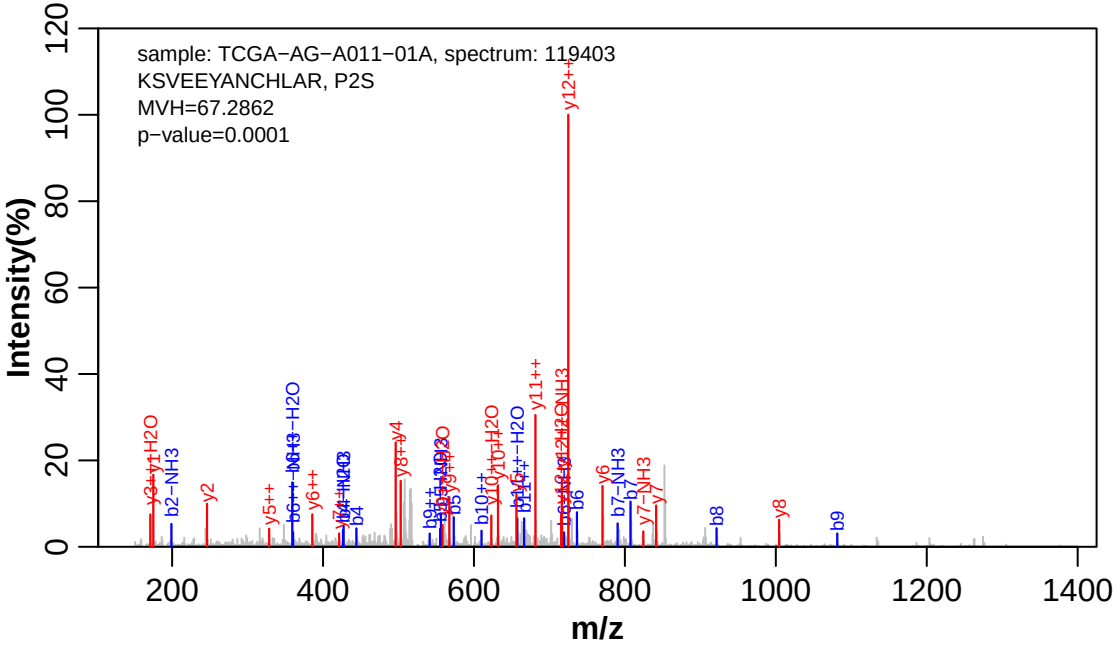

sample: TCGA−AG−A011−01A, spectrum: 16242
GLLDLLEER, V3I
MVH=45.0763
p−value=0.0038
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b3
y2
b4
y3−H2O
y3
b5−H2O
b5
y4
b6−H2O
b6
y5
y6−H2O
b7
y6
b8
y7

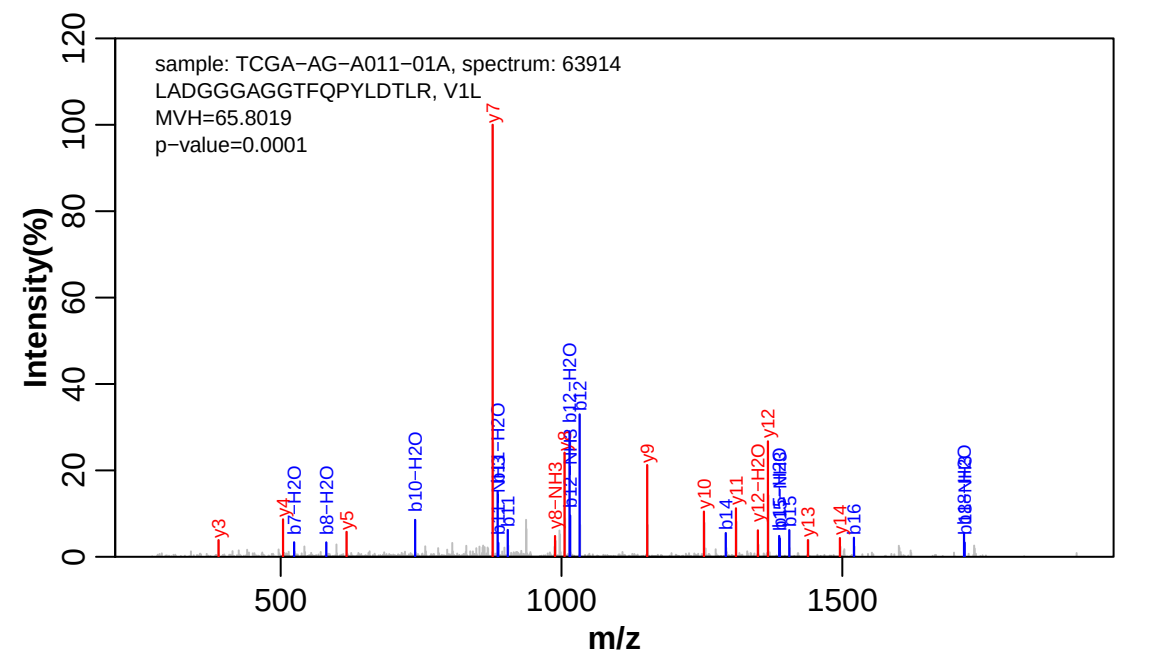

sample: TCGA−AG−A011−01A, spectrum: 54771
GQTGALLQNTVESLSK, D9N
MVH=75.9960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y9
y8
y11
y12
y13
y14
y5
y6
y4
b5−H2O
b15−H2O
b8
b7
b6

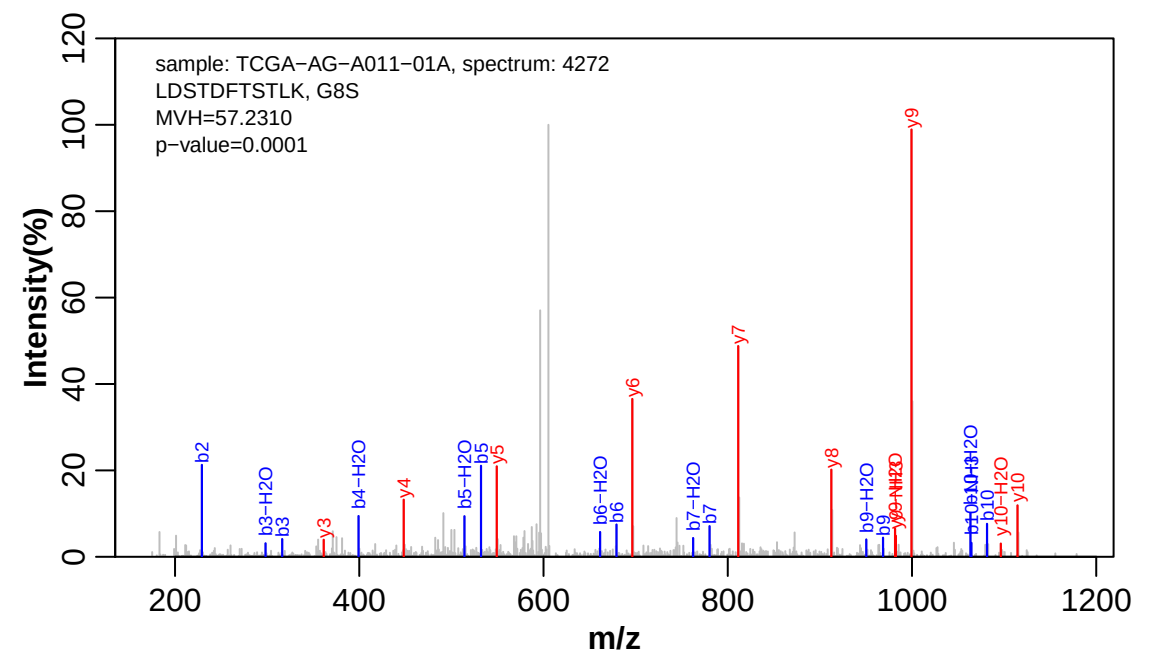

sample: TCGA−AG−A011−01A, spectrum: 27123
KFSLDALLTNVLPFEK, I11V
MVH=53.7502
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b4
y4−H2O
y4
b5
y5−NH3
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
b8
y8
b9
y9
b10
y10−NH3
y10
b11
y11
b12−NH3
b12
y12
b14−NH3
b14
y15−NH3
y15

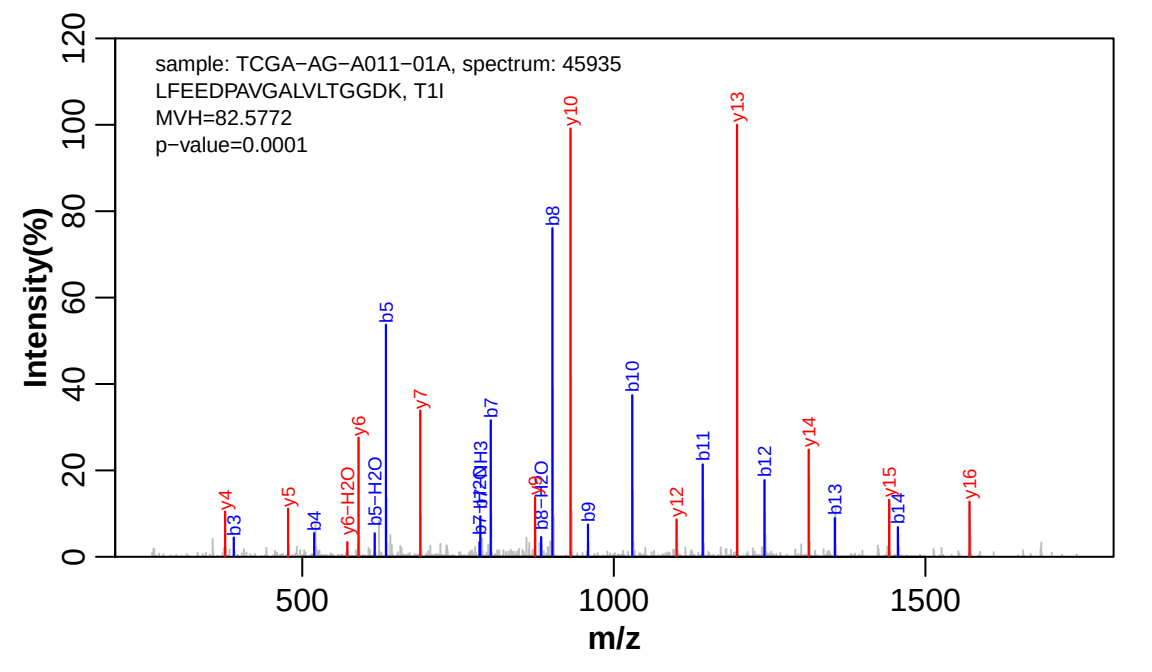

sample: TCGA−AG−A011−01A, spectrum: 106317
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV V10A
MVH=41.6924
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
y7
y10++
b14++−NH3
b14++
b11++
y12++
y7−H2O
y5−H2O
y7−NH3
b7
b8
y18++−H2O
y21++
b10
y10+−H2O
b11
b12−NH3
y11
y26++−NH3
y29++−NH3
b29++
y17
y18−H2O
y19
y20
y21

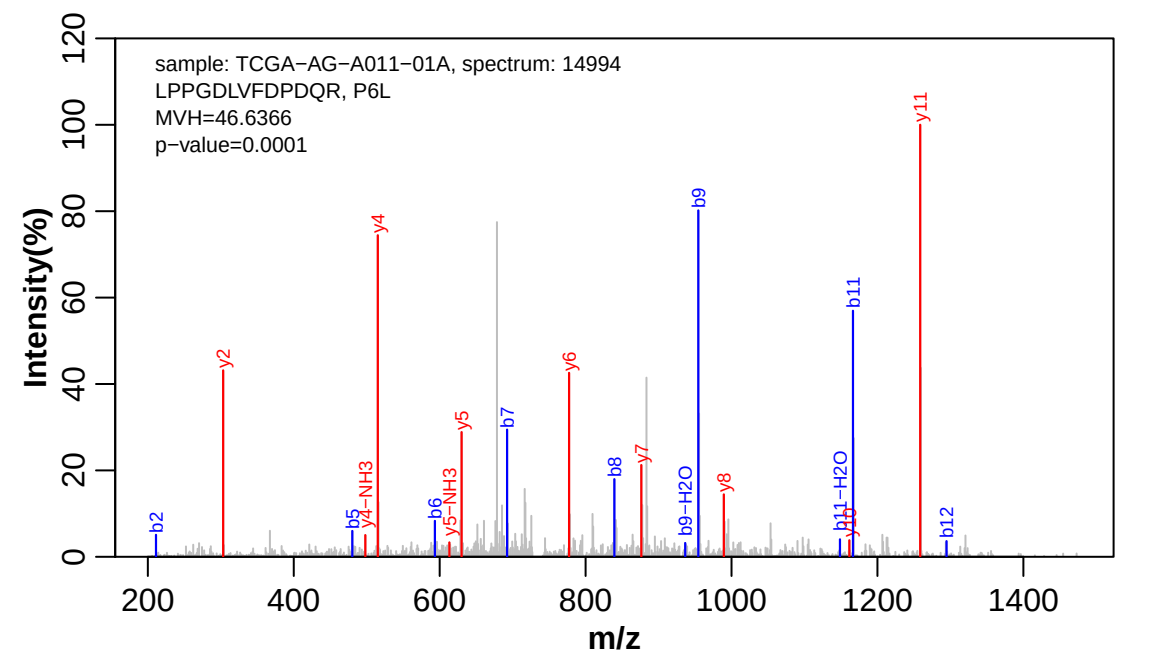

sample: TCGA−AG−A011−01A, spectrum: 5251
KLDSVFEEPLSK, R9P
MVH=57.3363
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b6++
y6++
b7++
y7++
y7++ H2O
b4
b5
b5−H2O
y5
b11++
y6−H2O
b8
y6
b7
y7

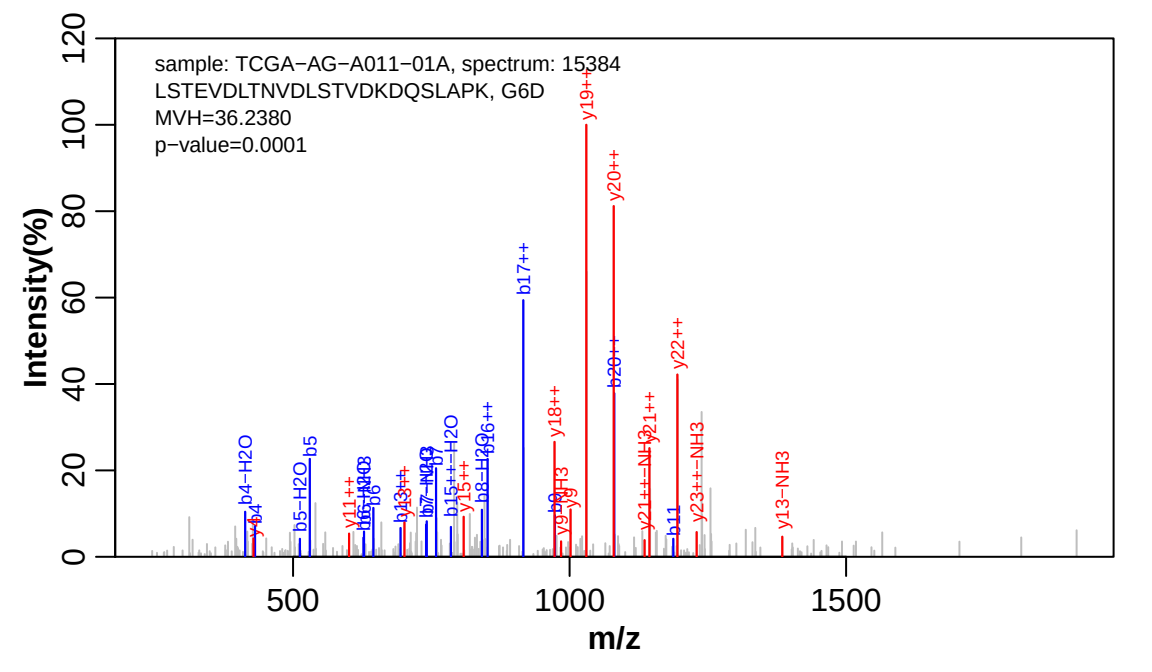

sample: TCGA−AG−A011−01A, spectrum: 119403
KSVEEYANCHLAR, P2S
MVH=67.2862
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y12++
y11++
y8−y4
y6
y8
b9
b8
b7−NH3
y7−NH3
y2
b2−NH3
y5++
y6++
b4
b6++ −H2O
b10++ −H2O
b11++ −H2O
b6
y7
y3++ −H2O

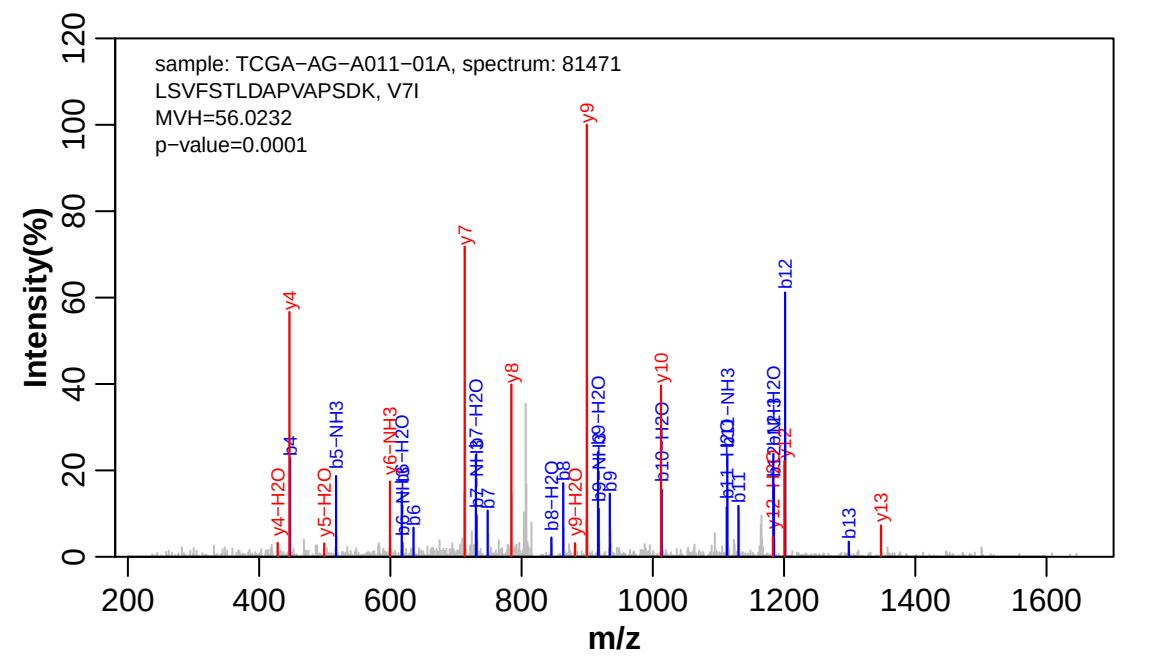

sample: TCGA−AG−A011−01A, spectrum: 63914
LADGGGAGGTFQPYLDTLR, V1L
MVH=65.8019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b8−H2O
y5
b10−H2O
b11−H2O
b11
y8−NH3
b12−NH3
b12−H2O
b12
y9
y10
b14
y11
y12−H2O
y12
y13
y14
b16

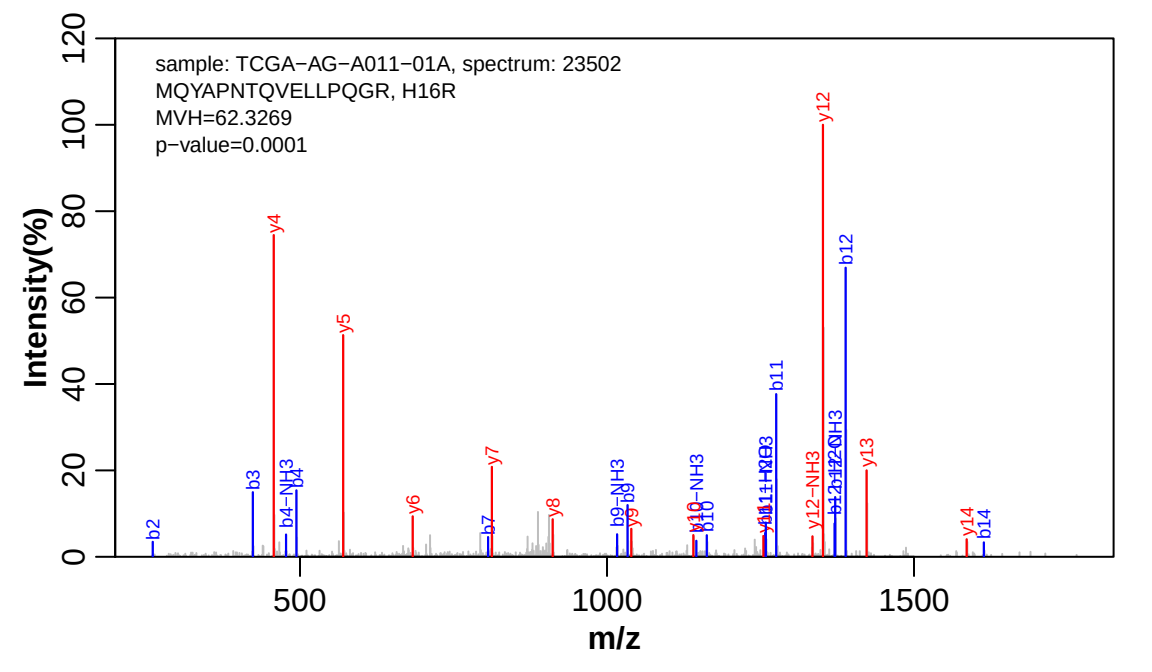

sample: TCGA−AG−A011−01A, spectrum: 4272
LDSTDFTSTLK, G8S
MVH=57.2310
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3−H2O
b3
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
b9−H2O
b9
y9
y10−H2O
y10

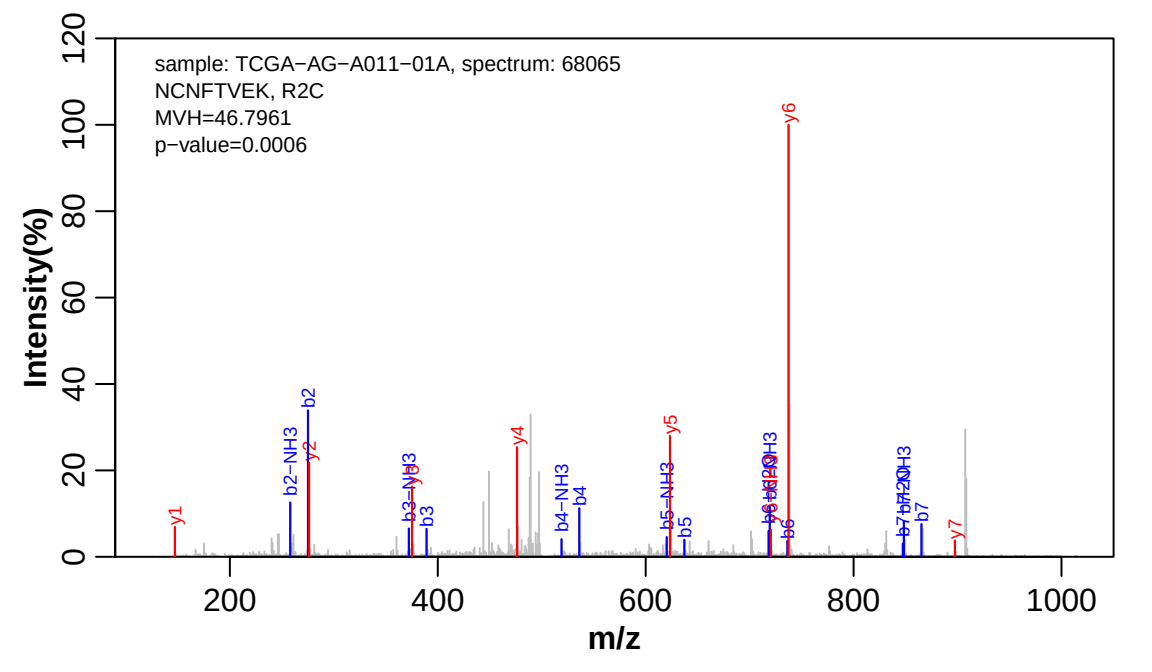

sample: TCGA−AG−A011−01A, spectrum: 45935
LFEEDPAVGALVLTGGDK, T1I
MVH=82.5772
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
b5
y7
y6
b7
b10
b11
y14
b12
y15
b13
b14
y16
y4
b3
y5
b4
y6−H2O
b5−H2O
b7−H2O
b7−NH3
b8−H2O
b9
y12

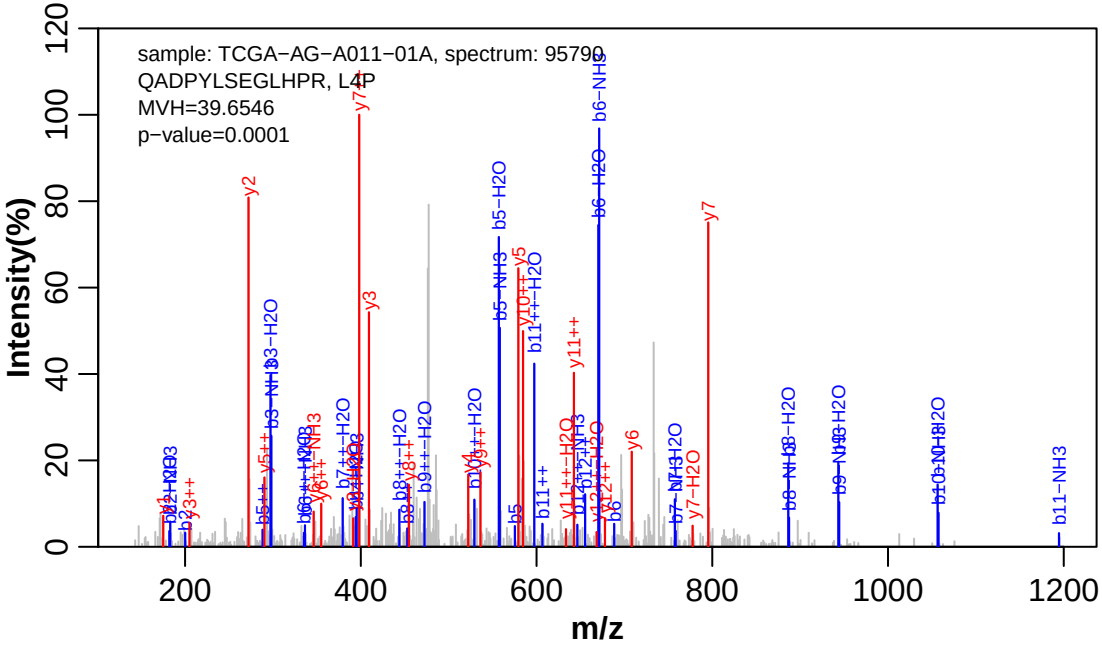

sample: TCGA−AG−A011−01A, spectrum: 14994
LPPGDLVFDPDQR, P6L
MVH=46.6366
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b5
y4−NH3
y4
b6
y5−NH3
y5
b7
y6
b8
y7
b9−H2O
b9
y8
b11−H2O
b11
y10
y11
b12

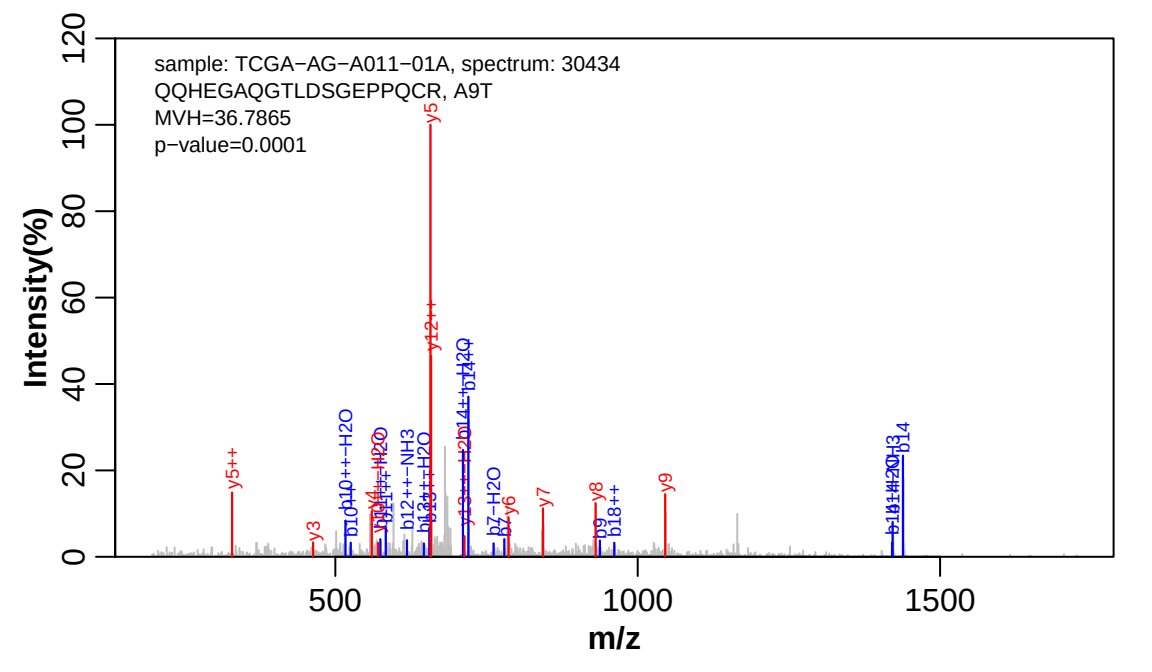

sample: TCGA−AG−A011−01A, spectrum: 15384
LSTEVDLTNVDLSTVDKDQSLAPK, G6D
MVH=36.2380
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−H2O
y4
b5−H2O
b5
y11++
b13++
b15++−H2O
y15++
b16++
b17++
y18++
y19++
b20++
y20++
y21++−NH3
y21++
b11
y22++
y23++−NH3
y13−NH3

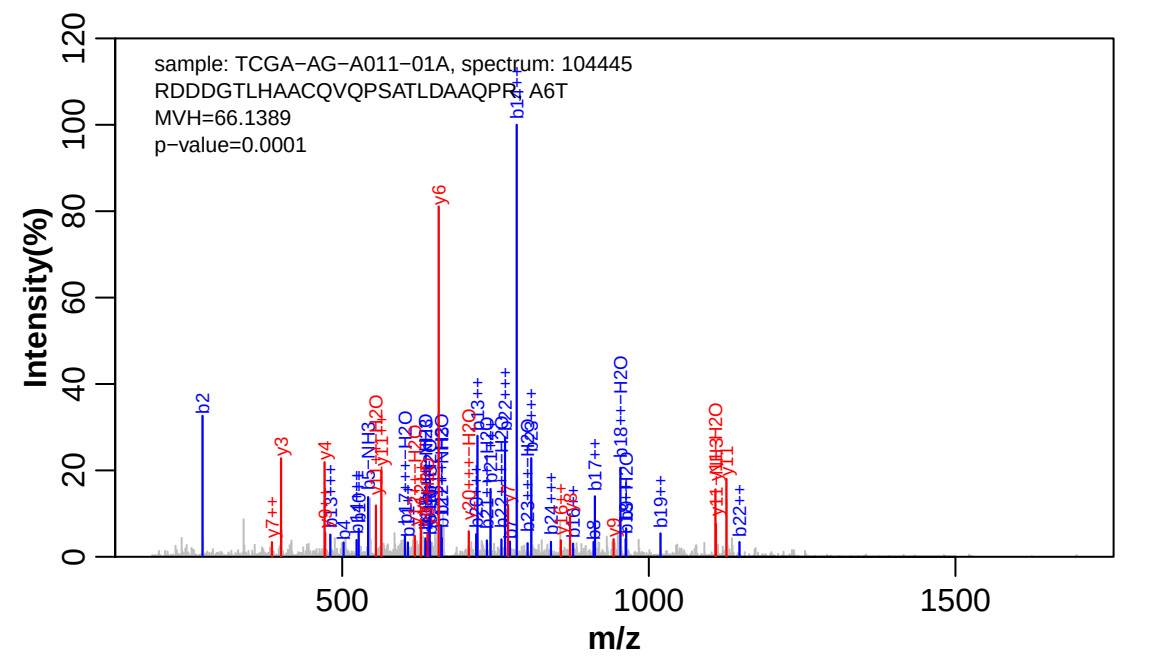

sample: TCGA−AG−A011−01A, spectrum: 81471
LSVFSTLDAPVAPSDK, V7I
MVH=56.0232
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
b12
y10
b4
b5−NH3
y6−NH3
y4−H2O
y5−H2O
b8−H2O
y9−H2O
b10−H2O
y10−NH3
b11
y13
b13

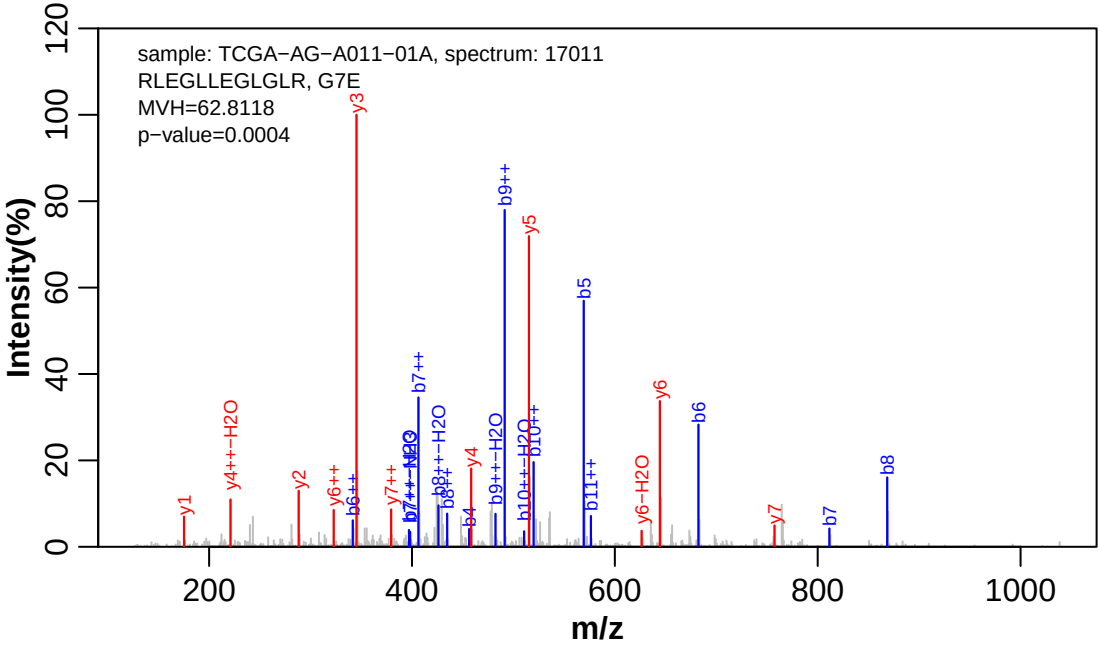

sample: TCGA−AG−A011−01A, spectrum: 23502
MQYAPNTQVELLPQGR, H16R
MVH=62.3269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4
b4−NH3
y4
y5
y6
y7
b7
y8
b9
b9−NH3
y9
b10
b10−NH3
y10
y11
y11+H2O
y11−NH3
b11
y12
y12−NH3
b12
b12−H2O
b12−NH3
y13
y14
b14

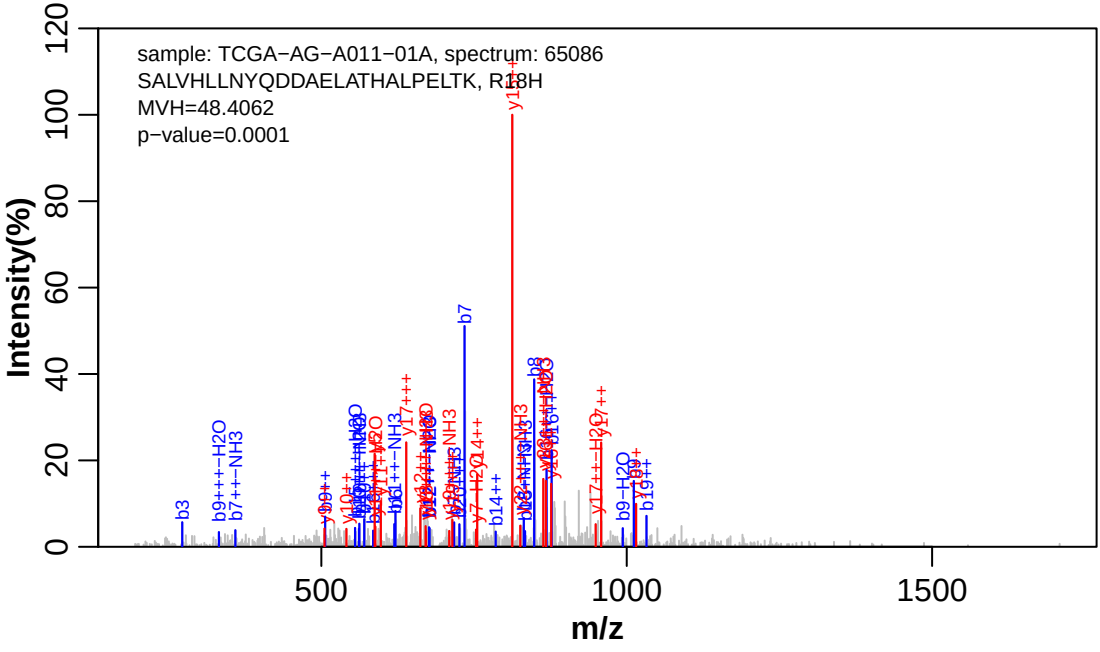

sample: TCGA−AG−A011−01A, spectrum: 68065
NCNFTVEK, R2C
MVH=46.7961
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
b2−NH3
y2
b3−NH3
y3
b3
y4
b4−NH3
b4
y5
b5−NH3
b5
b6
y6
b7
y7

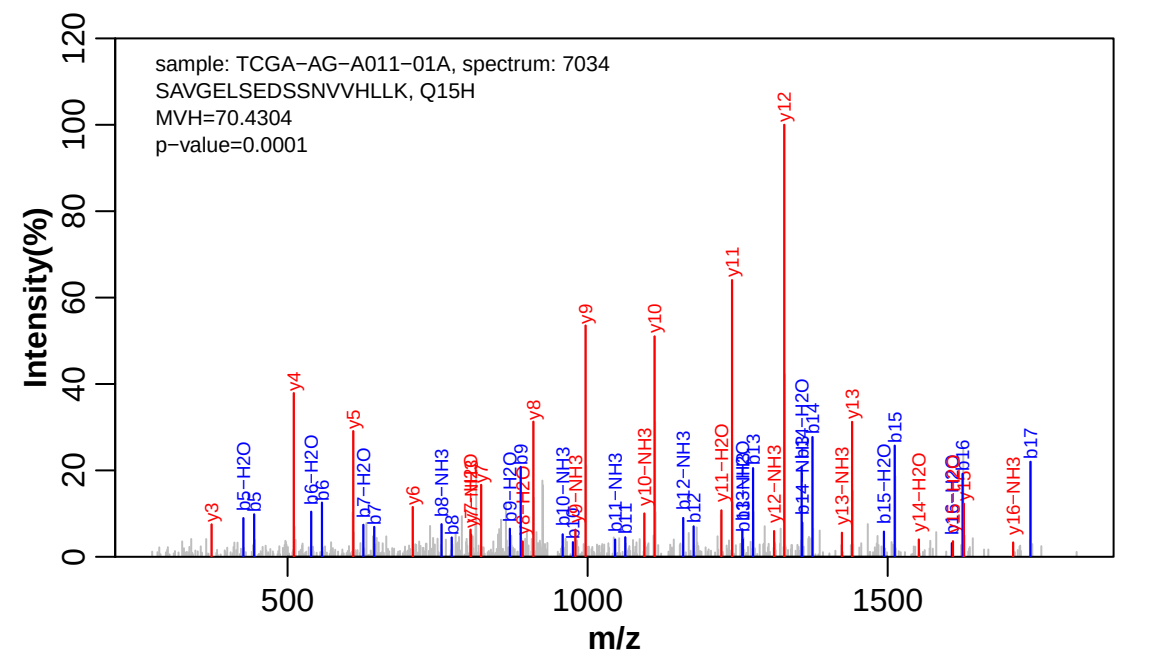

sample: TCGA−AG−A011−01A, spectrum: 95790
QADPYLSEGLHPR, L4P
MVH=39.6546
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y7++
b6−NH3
b6−H2O
y7
y3
b5−NH3
b5−H2O
y5
y10++
b11++−H2O
y11++
y6
b11++
b5
b11−NH3

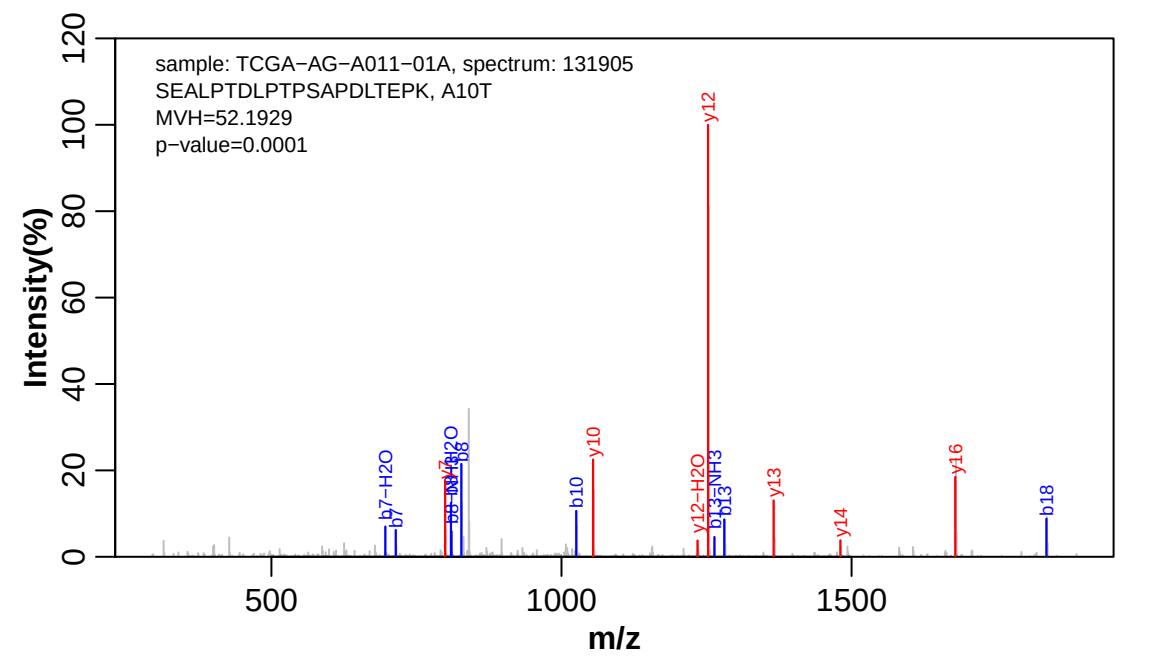

sample: TCGA−AG−A011−01A, spectrum: 30434
QQHEGAQGTLDSGEPPQCR, A9T
MVH=36.7865
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y5++
y12++
y3
y6
y7
y8
y9
b18++
b14
b14−H2O
b7−H2O
b10++−H2O
b12++−NH3
b12++−H2O

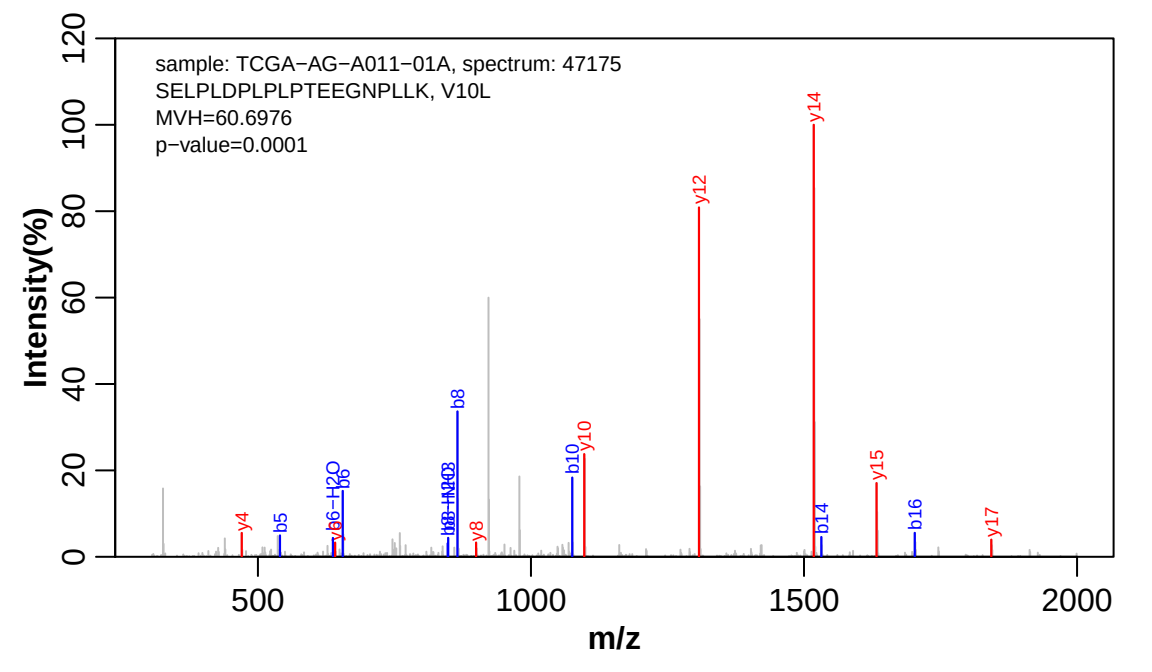

sample: TCGA−AG−A011−01A, spectrum: 104445
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=66.1389
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y4
y6
b14++
y7++
b19++
b22++
y11
b17++
b18++−H2O

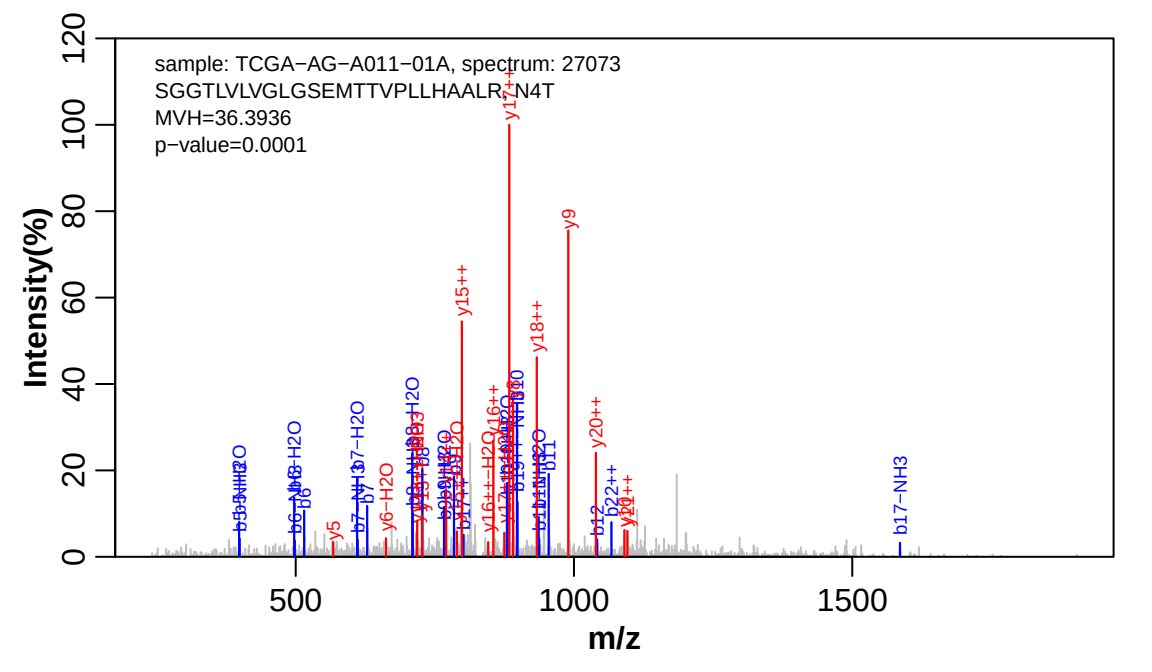

sample: TCGA−AG−A011−01A, spectrum: 17011
RLEGLLEGLGLR, G7E
MVH=62.8118
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
y4++−H2O
y2
y6++
b6++
y7++
b7++
b7++−H2O
b8++
b8++−H2O
y4
b4
y3
b9++
y5
b9++−H2O
b10++−H2O
b10++
b5
b11++
y6−H2O
y6
b6
y7
b7
b8

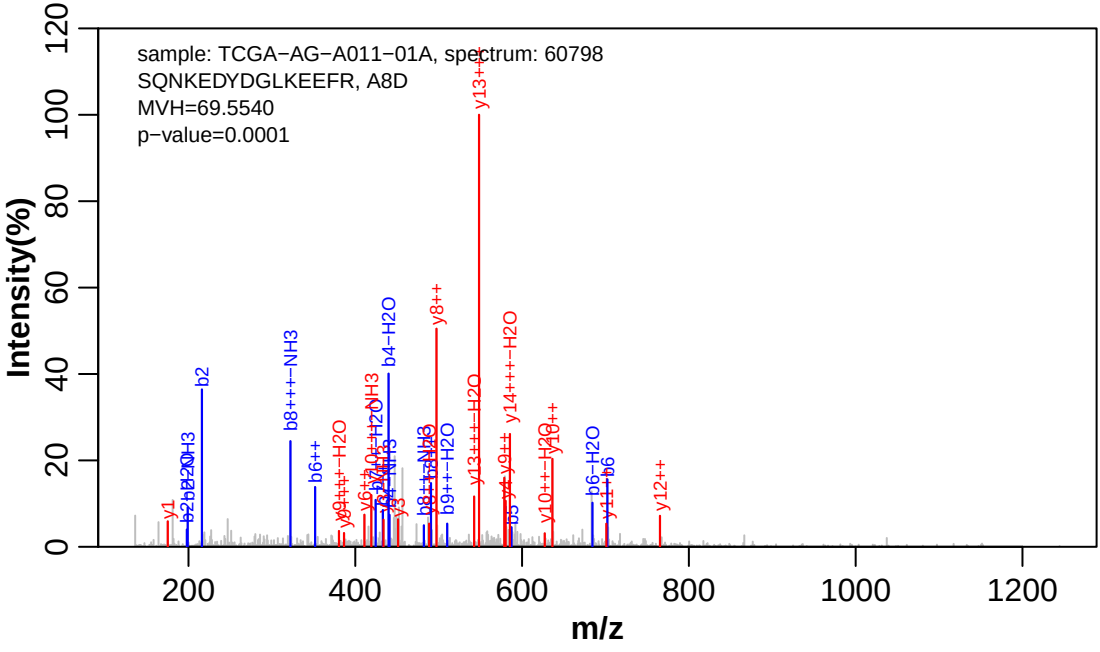

sample: TCGA−AG−A011−01A, spectrum: 65086
SALVHLLNYQDDAELATHALPELTK, R18H
MVH=48.4062
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
b7
y17+++
b9+++−H2O
b7+++−NH3
b3
y9++
y10++
y14++
b14++
y17++−H2O
b9−H2O
b19++
y7++−H2O
y7++−NH3
b1+++−NH3

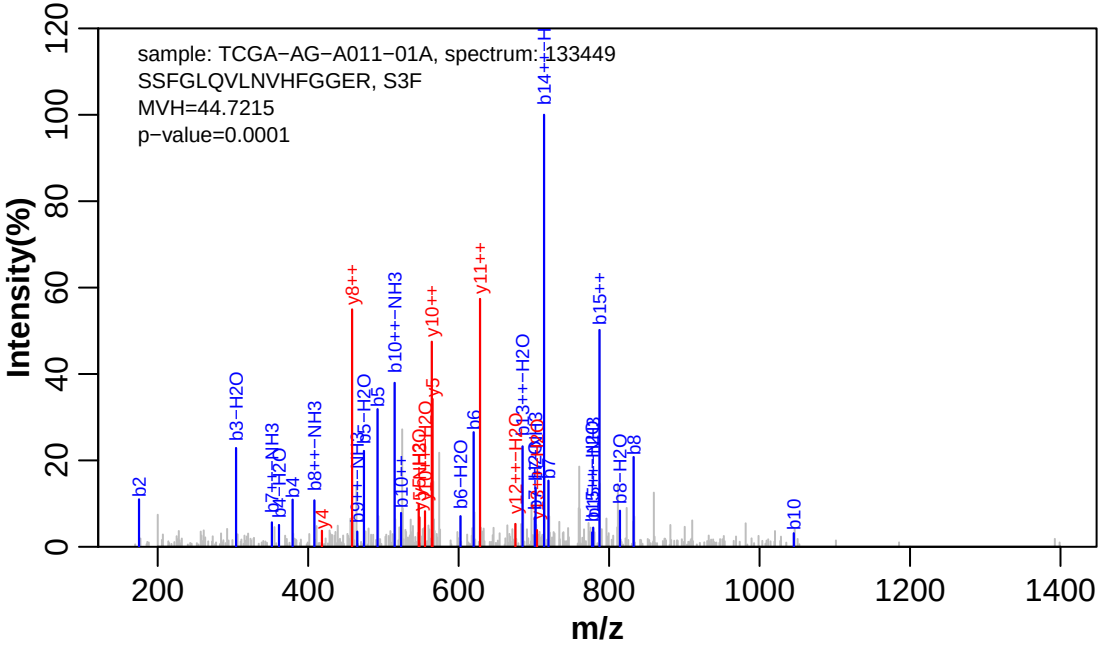

sample: TCGA−AG−A011−01A, spectrum: 7034
SAVGELSEDSSNVVHLLK, Q15H
MVH=70.4304
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y11
y9
y10
y4
y5
y8
y6
y13
y3
b15
b17
b5−H2O
b6−H2O
y7−H2O
y11−H2O
y10−NH3
y12−NH3
y13−NH3
b15−H2O
y14−H2O
y16−NH3

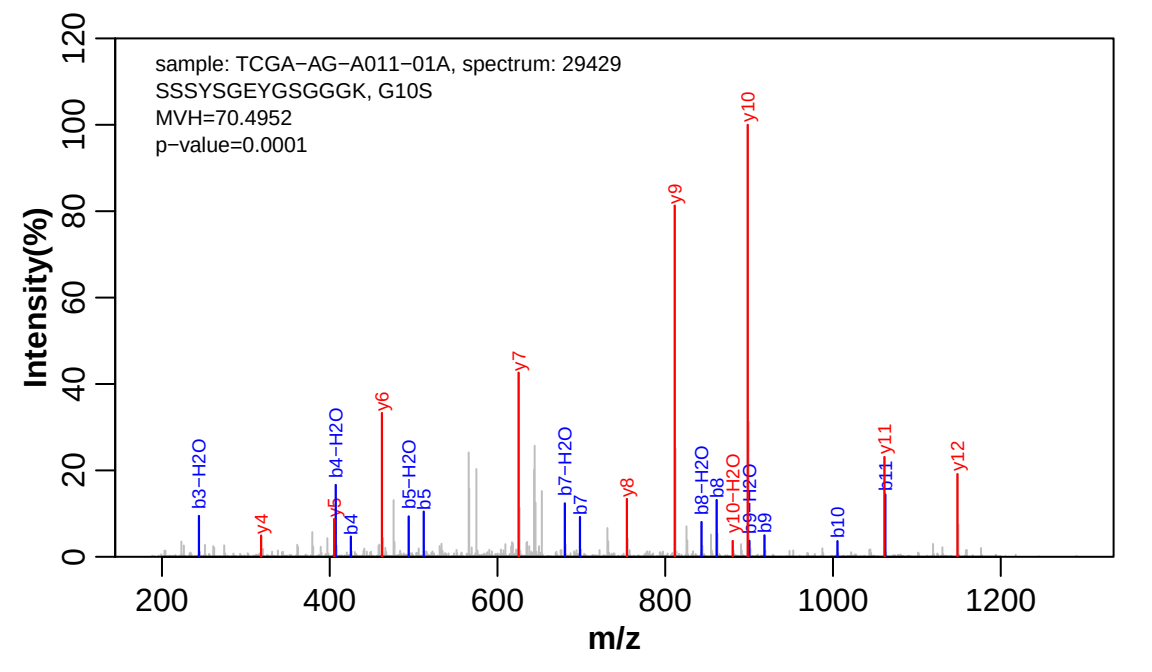

sample: TCGA−AG−A011−01A, spectrum: 131905
SEALPTDLPTPSAPDLTEPK, A10T
MVH=52.1929
p−value=0.0001
Intensity(%)
m/z
y12
y10
b10
y13
y16
b18
y14
b7−H2O
b7
b8
y12−H2O
b13
b13−NH3

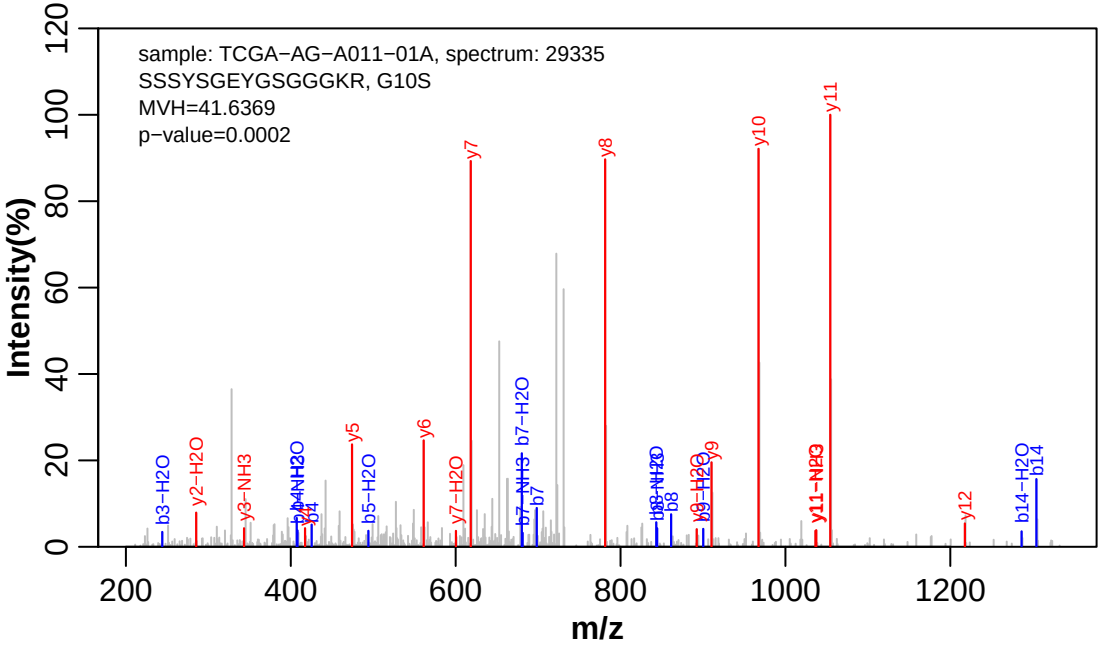

sample: TCGA−AG−A011−01A, spectrum: 47175
SELPLDPLPLPTEEGNPLLK, V10L
MVH=60.6976
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5
y6−H2O
b6
b8
y8
b10
y10
y12
y14
b14
y15
b16
y17

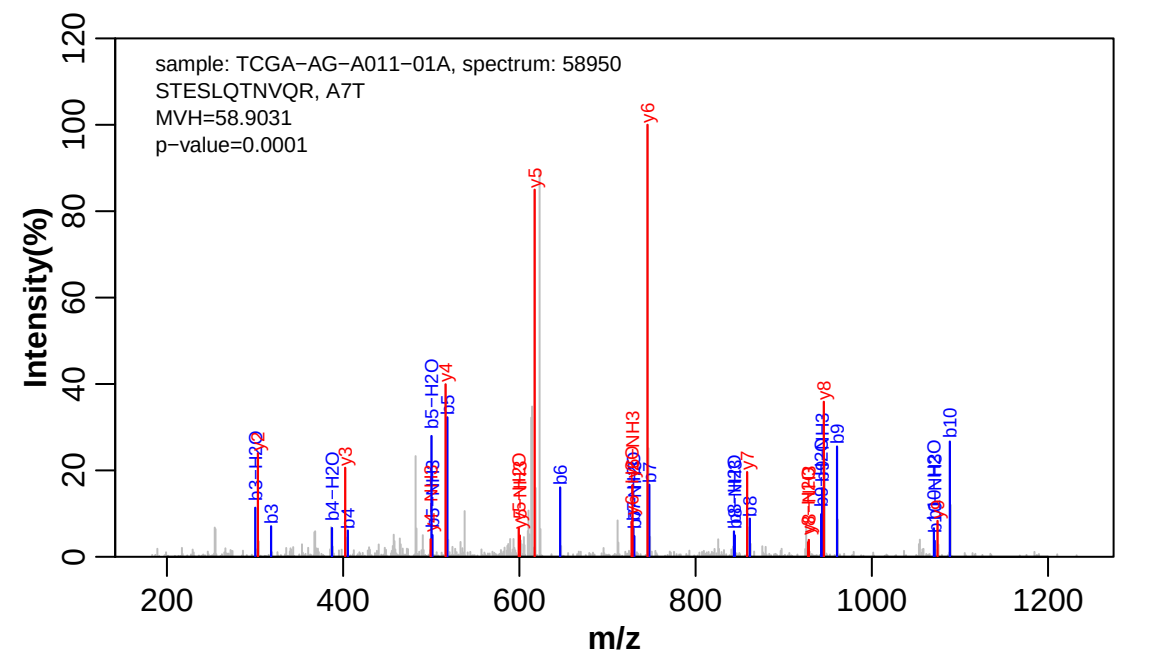

sample: TCGA−AG−A011−01A, spectrum: 27073
SGGTLVLVGLGSEMTTVPLLHAALRLN4T
MVH=36.3936
p−value=0.0001
Intensity(%)
m/z
y17++
y9
y15++
y18++
y20++
b17−NH3
y6−H2O
y5
b7
b8
b11
b12
y21++
0
20
40
60
80
100
120
500
1000
1500

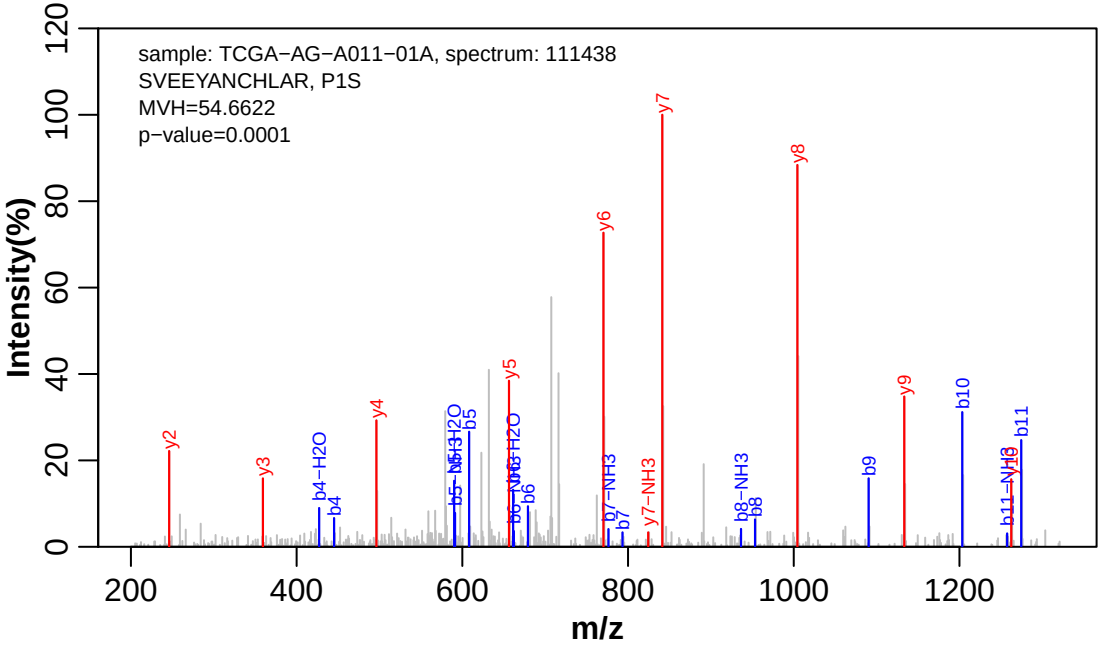

sample: TCGA−AG−A011−01A, spectrum: 60798
SQNKEDYDGLKEEFR, A8D
MVH=69.5540
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
b2−NH3
b2−H2O
b8+++−NH3
b6++
y8+++−H2O
y6++−H2O−NH3
b4−H2O
y3
b8+++−NH3
b9++−H2O
y8++
y13+++−H2O
y14+++−H2O
b5
y4
y9++
y10++−H2O
y10++
b6−H2O
y11++
b6
y12++
y13++

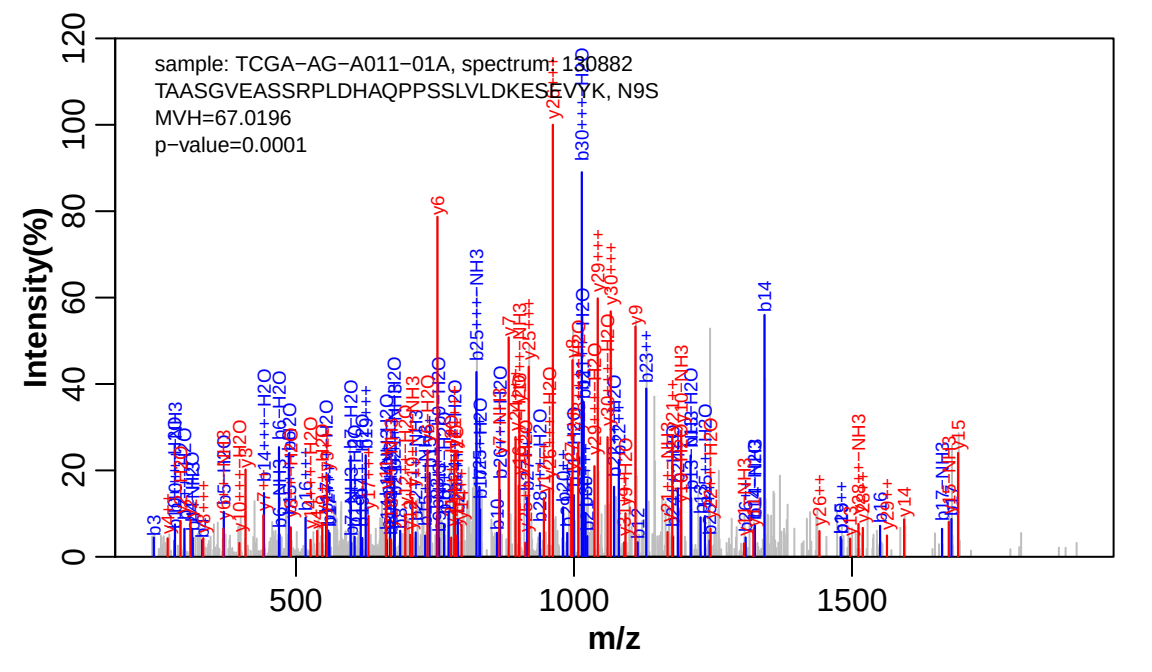

sample: TCGA−AG−A011−01A, spectrum: 133449
SSFGLQVLNVHFGGER, S3F
MVH=44.7215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b14++
b3−H2O
y8++
y11++
b15++
b10++−NH3
y10++
b5−H2O
b5
y5
b6
b6−H2O
b8++−NH3
b8−H2O
b8
b10++
b10
b2
y4

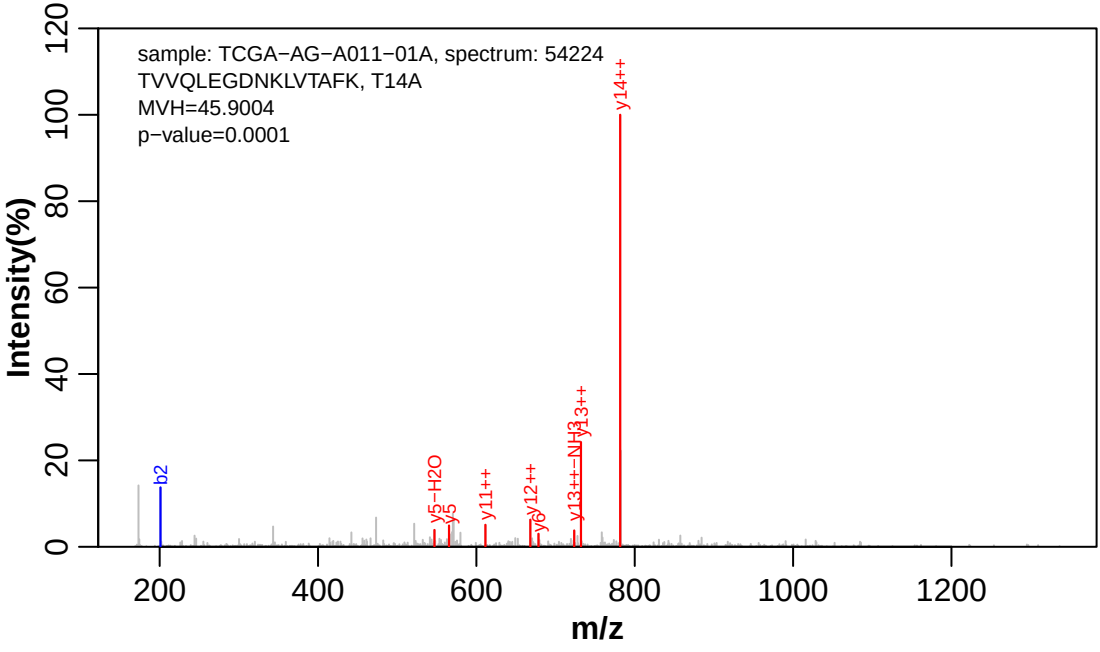

sample: TCGA−AG−A011−01A, spectrum: 29429
SSSYSGEYGSGGGK, G10S
MVH=70.4952
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
b4−H2O
y5
b4
y6
b5−H2O
b5
y7
b7−H2O
b7
y8
y9
b8−H2O
b8
y10−H2O
y10−H2O
b9
y10
b10
b11−y11
y12

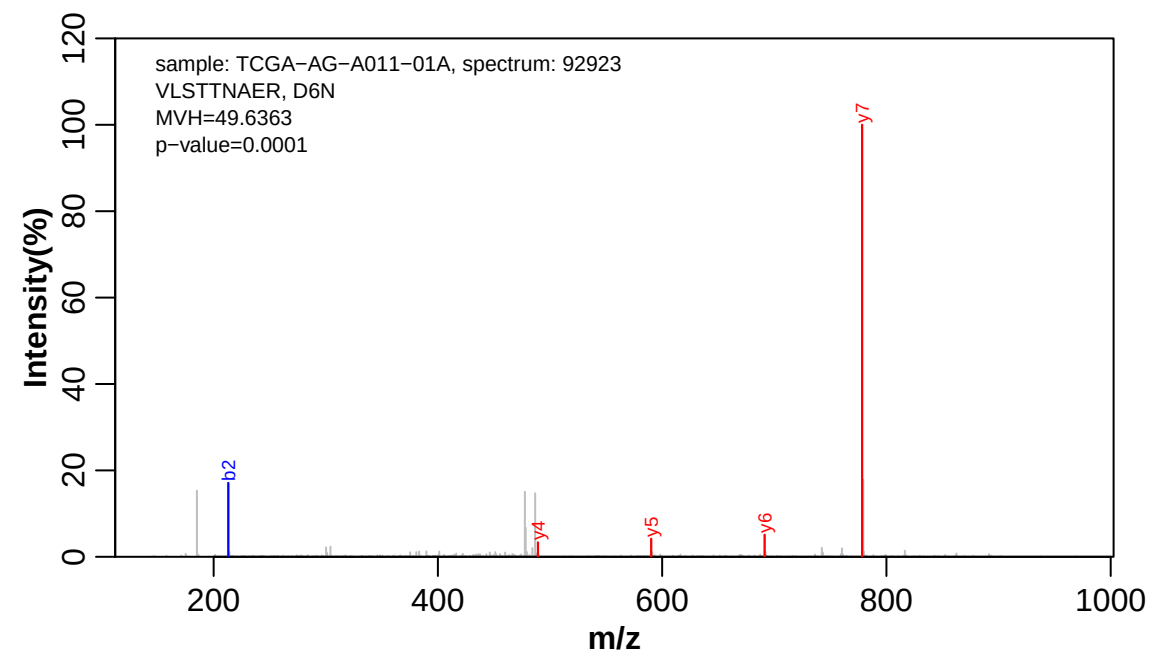

sample: TCGA−AG−A011−01A, spectrum: 29335
SSSYSGEYGSGGGKR, G10S
MVH=41.6369
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y2−H2O
y3−NH3
y5
b5−H2O
y6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−NH3
b8
y9−H2O
y9
y10
y11−NH3
y11
y12
b14−H2O
b14

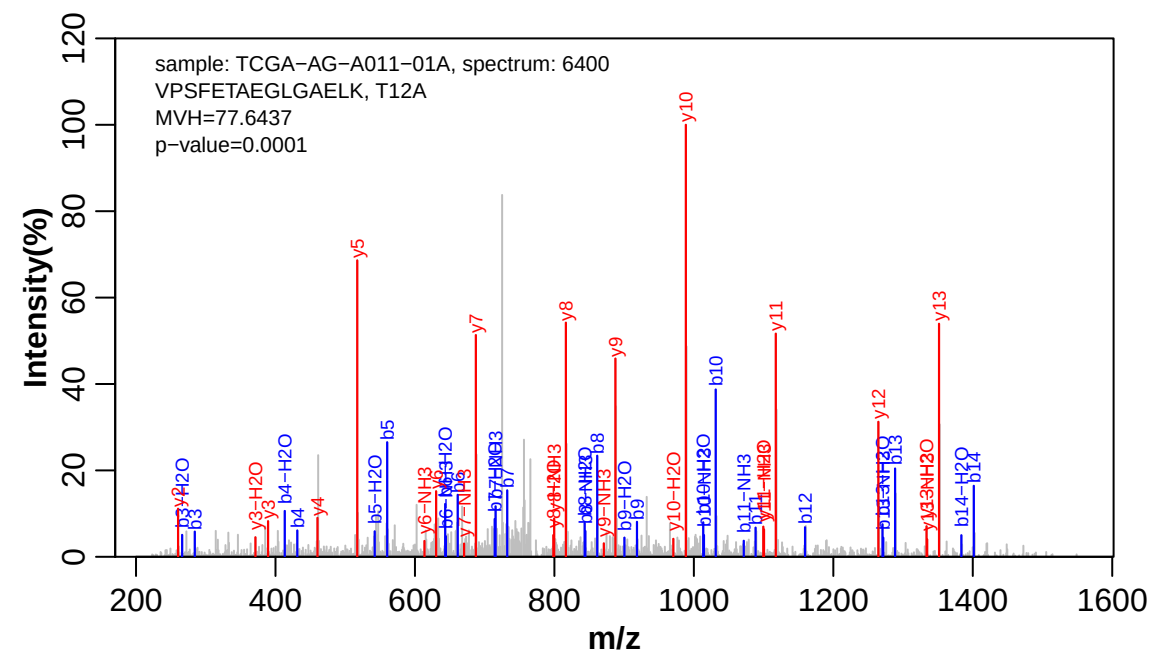

sample: TCGA−AG−A011−01A, spectrum: 58950
STESLQTNVQR, A7T
MVH=58.9031
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y4
y3
y8
b10
b9
b6
b5−H2O
b4−H2O
b3−H2O
b5
b4
b3
b7
y7
b8
b10−NH3
b10−H2O
y8−NH3
y8−H2O
b9−H2O
b9−NH3
b8−NH3
b7−H2O
b7−NH3
y5−NH3
y5−H2O
b5−NH3

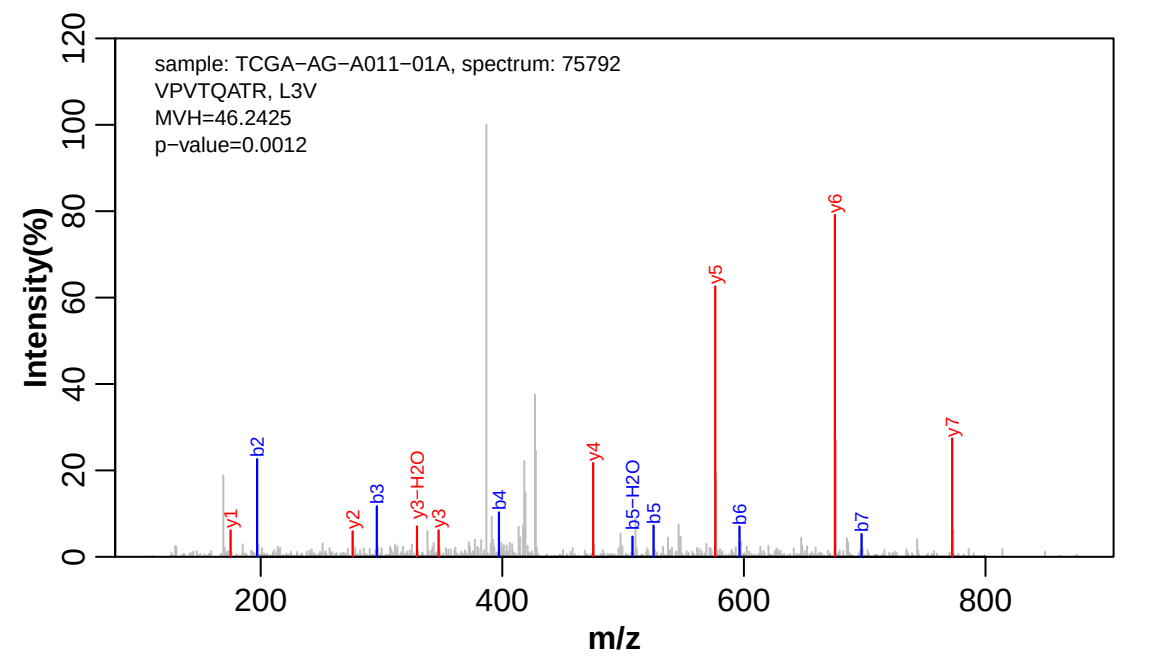

sample: TCGA−AG−A011−01A, spectrum: 111438
SVEEYANCHLAR, P1S
MVH=54.6622
p−value=0.0001
Intensity(%)
m/z
y2
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7
y7−NH3
y7
y8
b8−NH3
b8
b9
y9
b10
b11−NH3
b11−H2O
b11

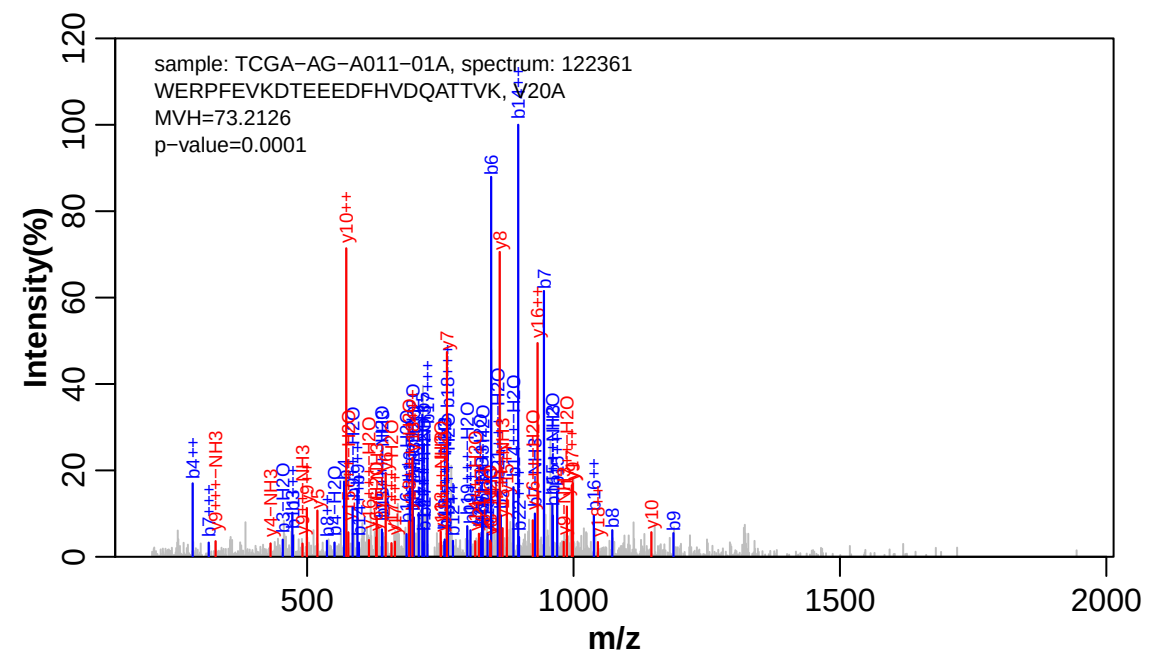

sample: TCGA−AG−A011−01A, spectrum: 130882
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=67.0196
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

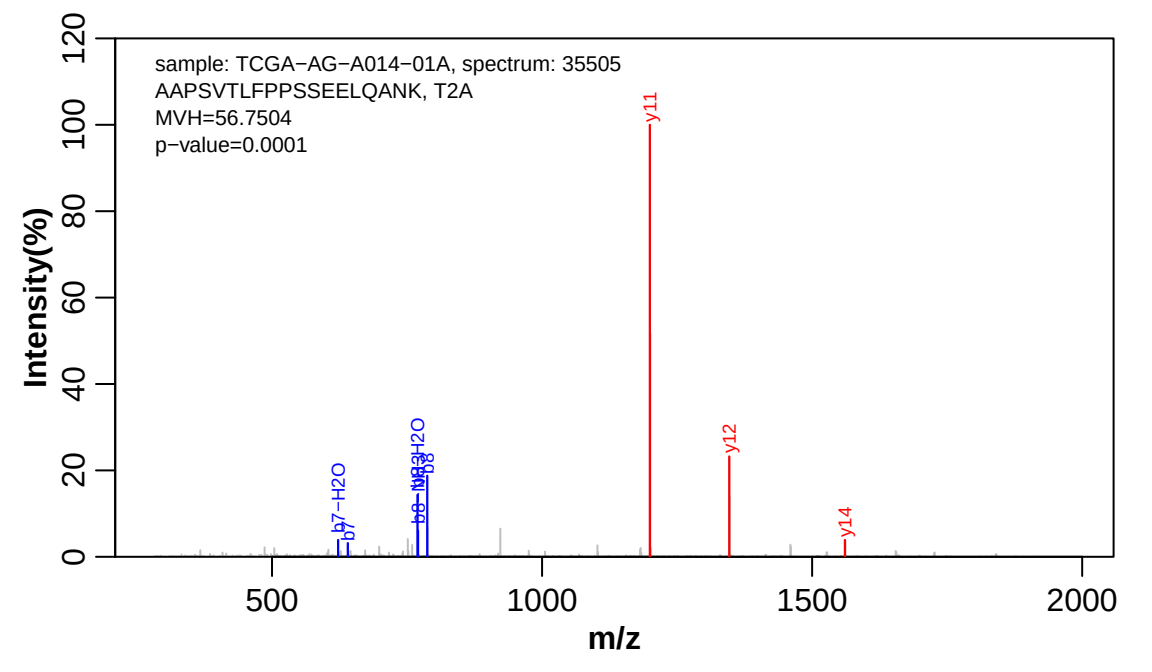

sample: TCGA−AG−A011−01A, spectrum: 54224
TVVQLEGDNKLVTAFK, T14A
MVH=45.9004
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y5−H2O
y5
y11++
y6
y12++
y13++−NH3
y13++
y14++

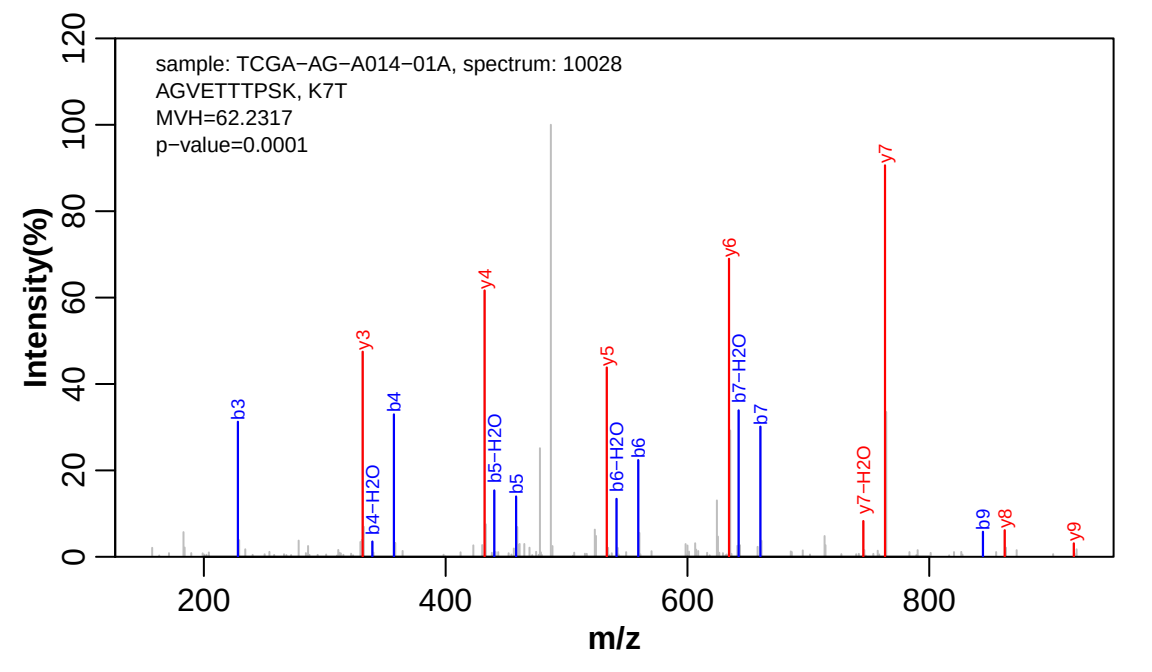

sample: TCGA−AG−A011−01A, spectrum: 92923
VLSTTNAER, D6N
MVH=49.6363
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y4
y5
y6
y7

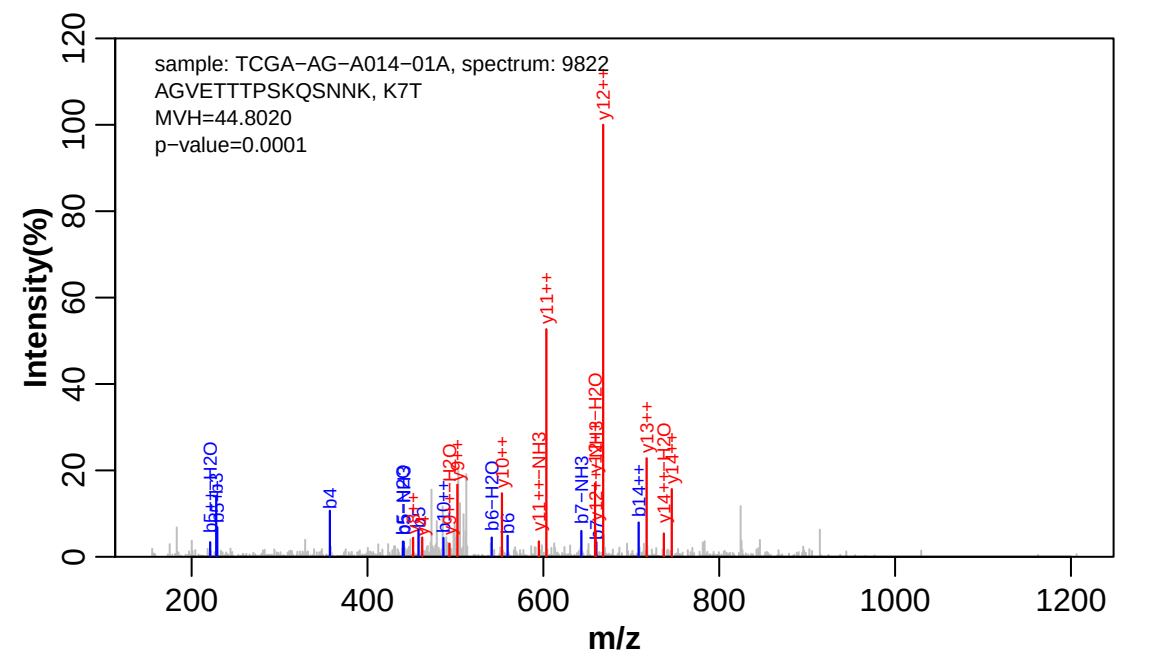

sample: TCGA−AG−A011−01A, spectrum: 6400
VPSFETAEGLGAELK, T12A
MVH=77.6437
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y5
y8
y7
y11
y13
y12
y9
b10
b5
b8
b7
b12
b14
y4
y3
b4
b6
b9
b11
y6
y10−H2O
y3−H2O
b4−H2O
b5−H2O
y6−NH3
y7−NH3
y9−NH3
b9−H2O
b11−NH3
b14−H2O

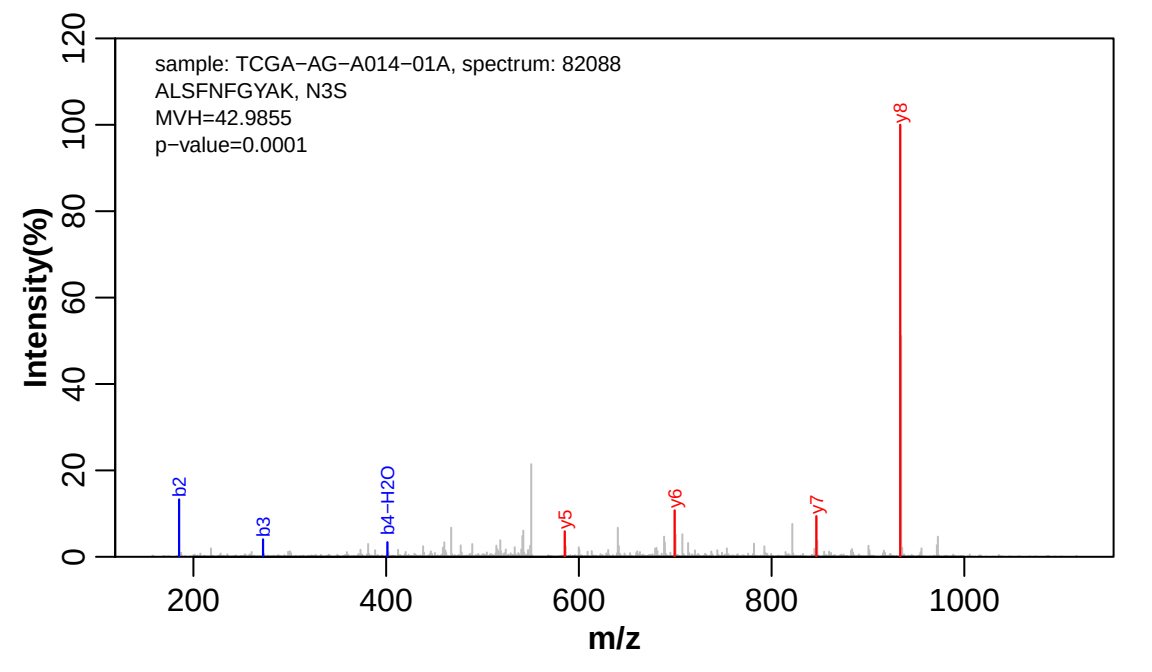

sample: TCGA−AG−A011−01A, spectrum: 75792
VPVTQATR, L3V
MVH=46.2425
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3−H2O
y3
b4
y4
b5−H2O
b5
y5
b6
y6
b7
y7

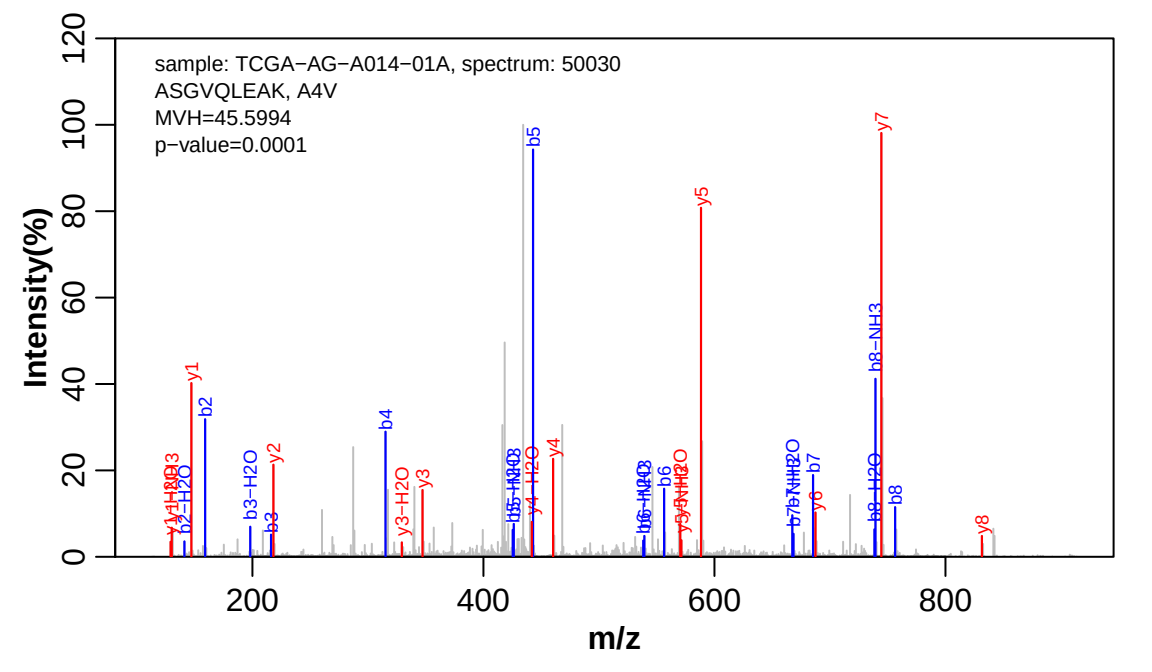

sample: TCGA−AG−A011−01A, spectrum: 122361
WERPFEVKDTEEEDFHVDQATTVK, V20A
MVH=73.2126
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4++
b7++−NH3
y4−NH3
y10++
b6
b14++
y8
y16++
b7
y7++
b16++
b8
y10
b9

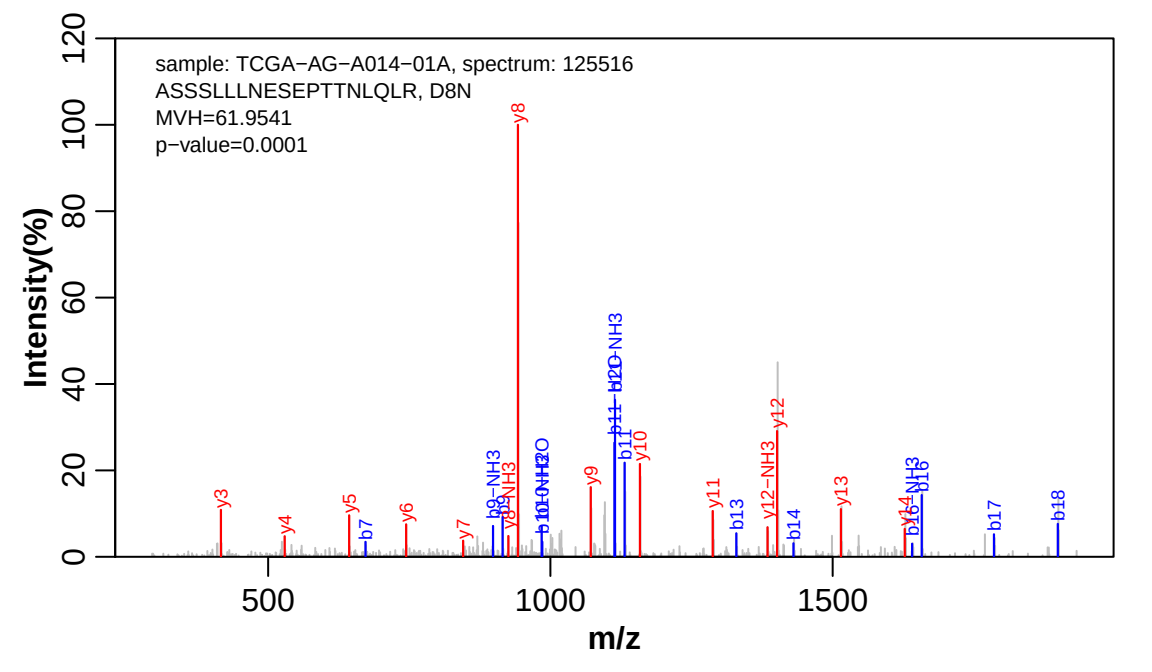

sample: TCGA−AG−A014−01A, spectrum: 35505
AAPSVTLFPPSSEELQANK, T2A
MVH=56.7504
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

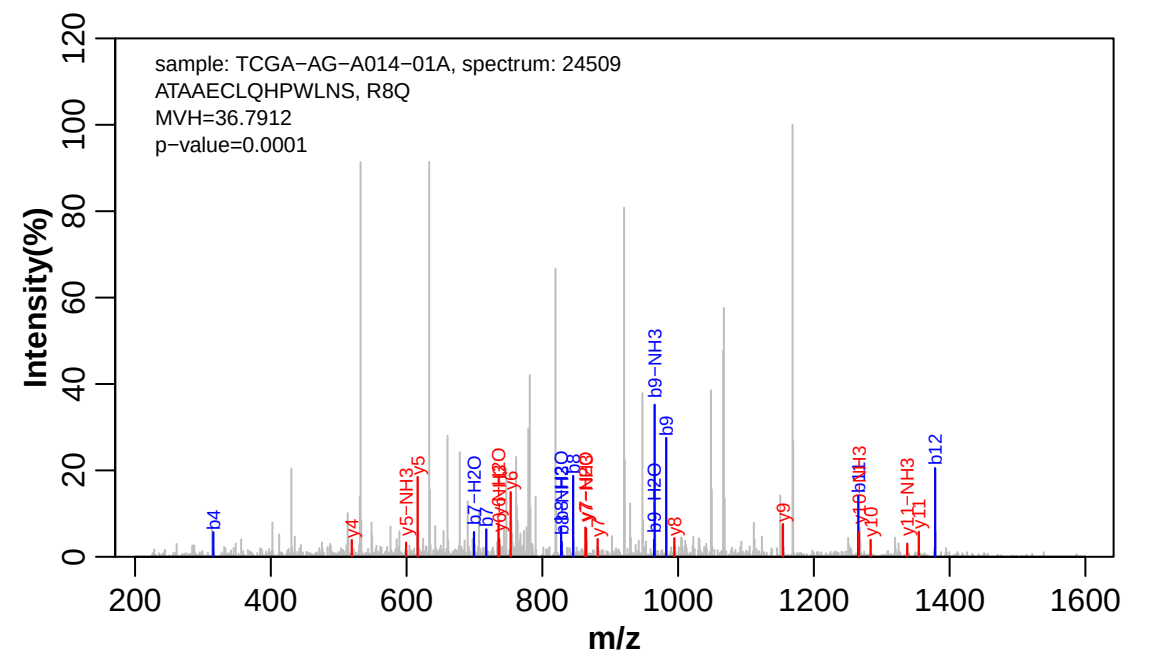

sample: TCGA−AG−A014−01A, spectrum: 10028
AGVETTTPSK, K7T
MVH=62.2317
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
b3
y3
b4
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

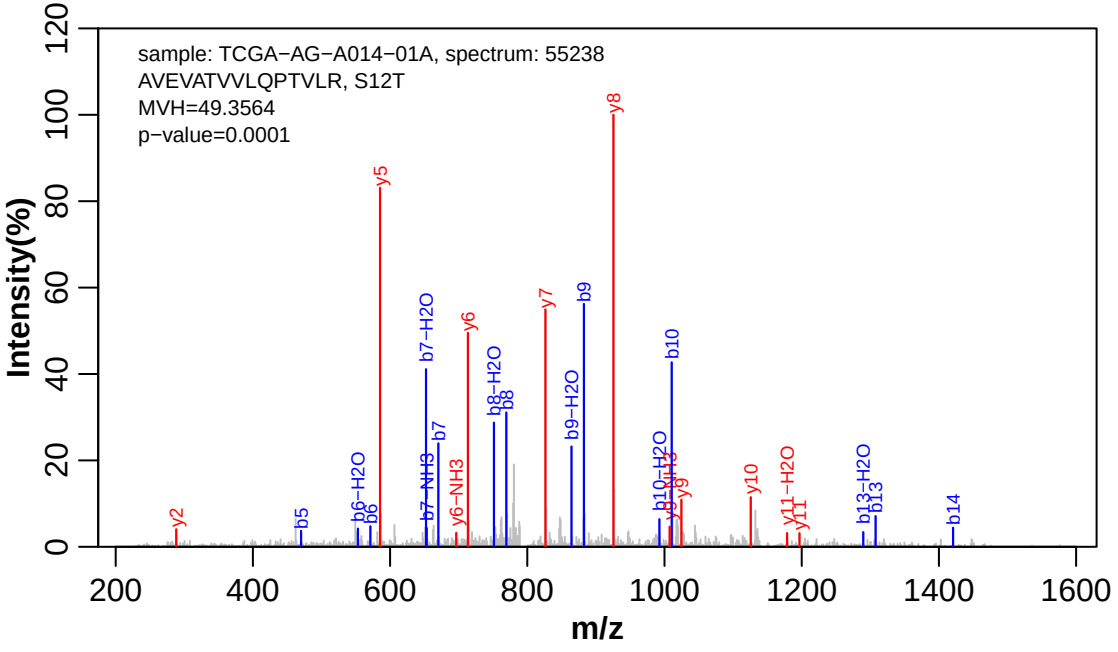

sample: TCGA−AG−A014−01A, spectrum: 9822
AGVETTTPSKQSNNK, K7T
MVH=44.8020
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y12++
y11++
y11++−NH3
y11++−H2O
b7−NH3
b6−H2O
y10++
b6
b4
b14++
y13++
y14++−H2O
y14++
b5−H2O

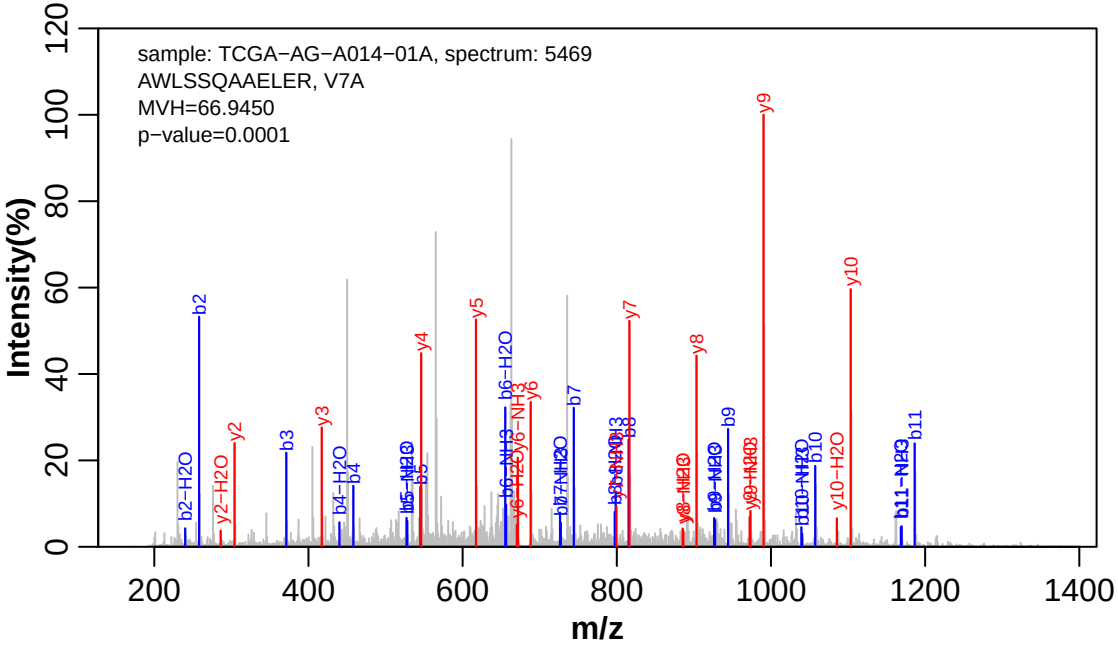

sample: TCGA−AG−A014−01A, spectrum: 82088
ALSFNFGYAK, N3S
MVH=42.9855
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4−H2O
y5
y6
y7
y8

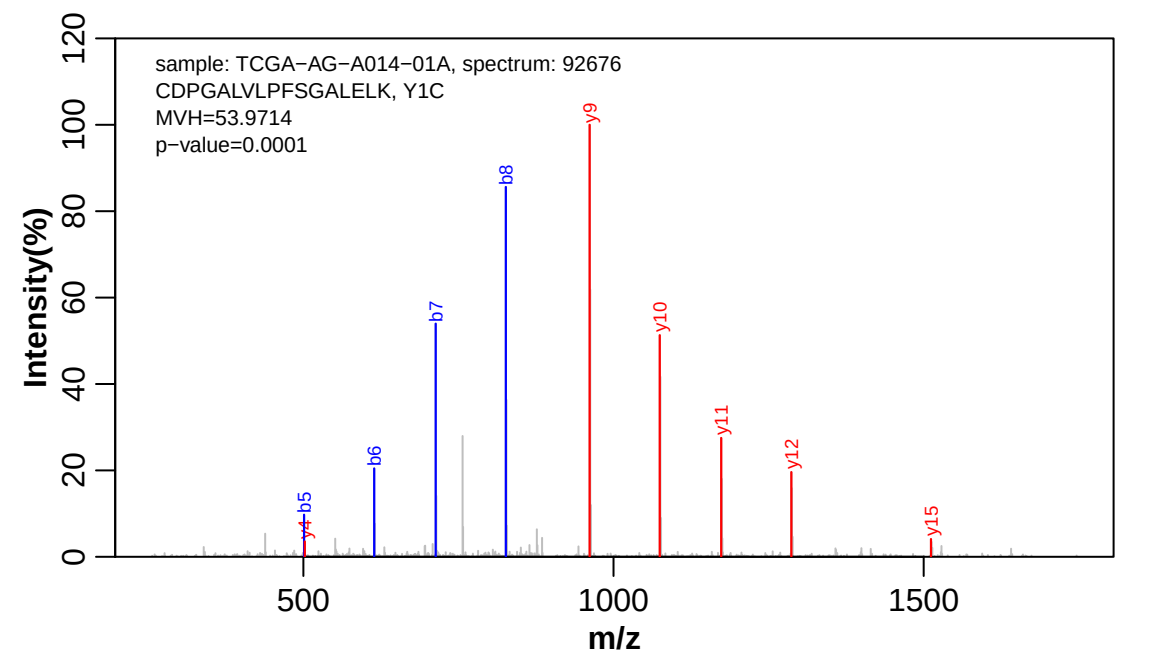

sample: TCGA−AG−A014−01A, spectrum: 50030
ASGVQLEAK, A4V
MVH=45.5994
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
b2
b3−H2O
y2
b3
b4
y3−H2O
y3
b5
y4−H2O
y4
y5
b6
b7
y6
b8−NH3
b8−H2O
b8
y7
y8

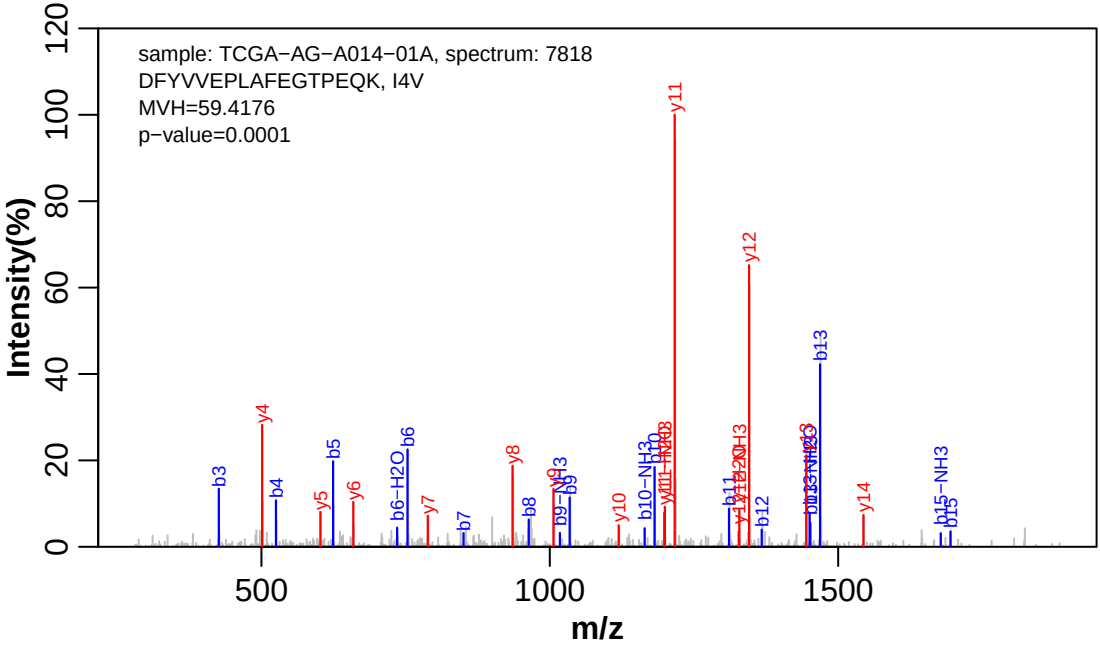

sample: TCGA−AG−A014−01A, spectrum: 125516
ASSSLLLNESEPTTNLQLR, D8N
MVH=61.9541
p−value=0.0001
Intensity(%)
m/z
y8
y3
y4
y5
b7
y6
y7
b8−NH3
y9
b11−H2O−NH3
b11
y10
y11
b13
y12
y12−NH3
b14
y13
b16−NH3
b16
b17
b18

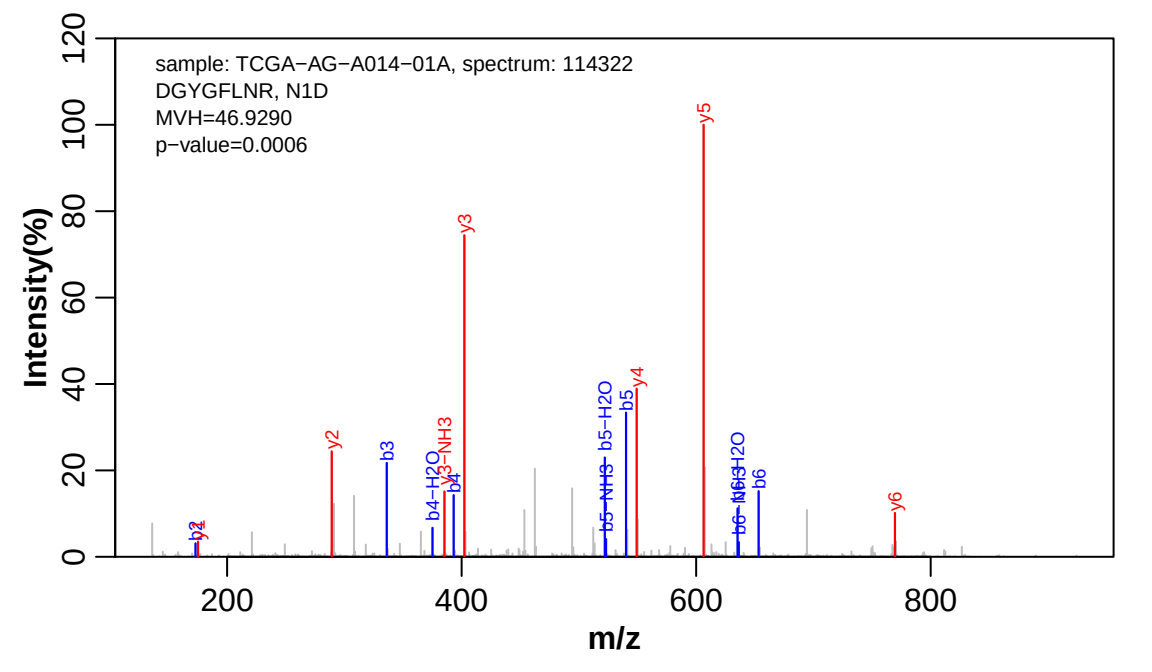

sample: TCGA−AG−A014−01A, spectrum: 24509
ATAAECLQHPWLNS, R8Q
MVH=36.7912
p−value=0.0001
Intensity(%)
m/z
b4
y4
y5−NH3
y5
b7−H2O
b7
y6−NH3
y6−H2O
y6
b8−NH3
b8−H2O
b8
y7−NH3
y7−H2O
y7
b9−NH3
b9
b9−H2O
y8
y9
y10−NH3
y10−H2O
y10
y11−NH3
y11
b12

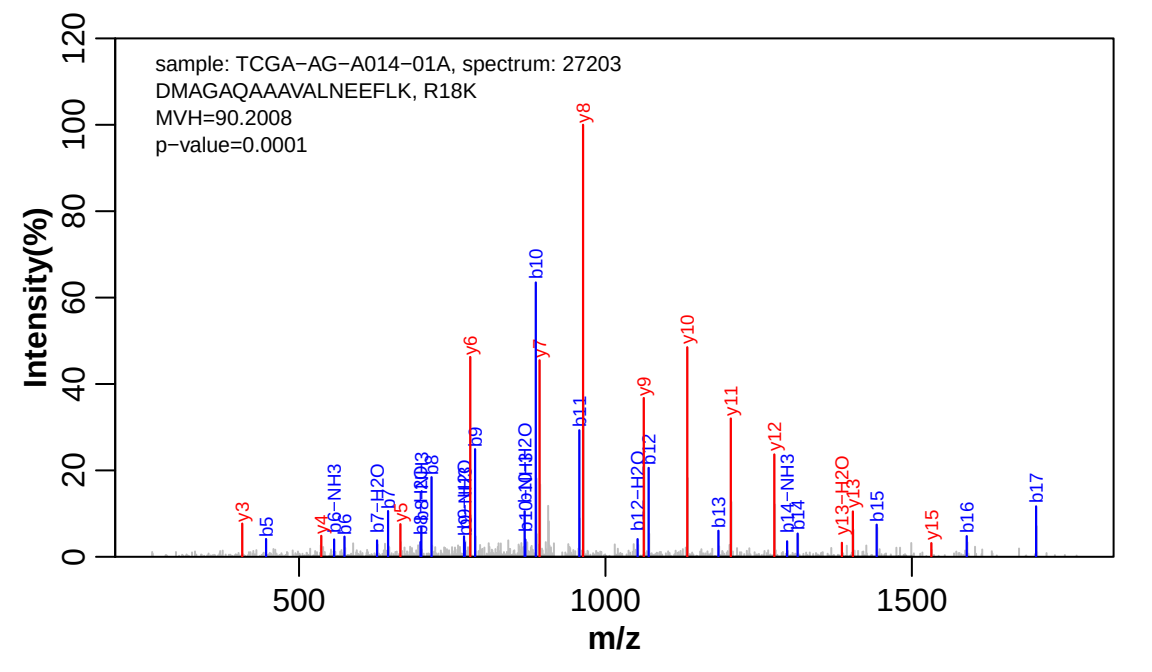

sample: TCGA−AG−A014−01A, spectrum: 55238
AVEVATVVLQPTVLR, S12T
MVH=49.3564
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b5
b6−H2O
b6
y5
b7−NH3
b7
b7−H2O
y6−NH3
y6
b8−H2O
b8
y7
b9−H2O
b9
b10−H2O
b10−NH3
y8
y9
y10
y11−H2O
y11
b13−H2O
b13
b14

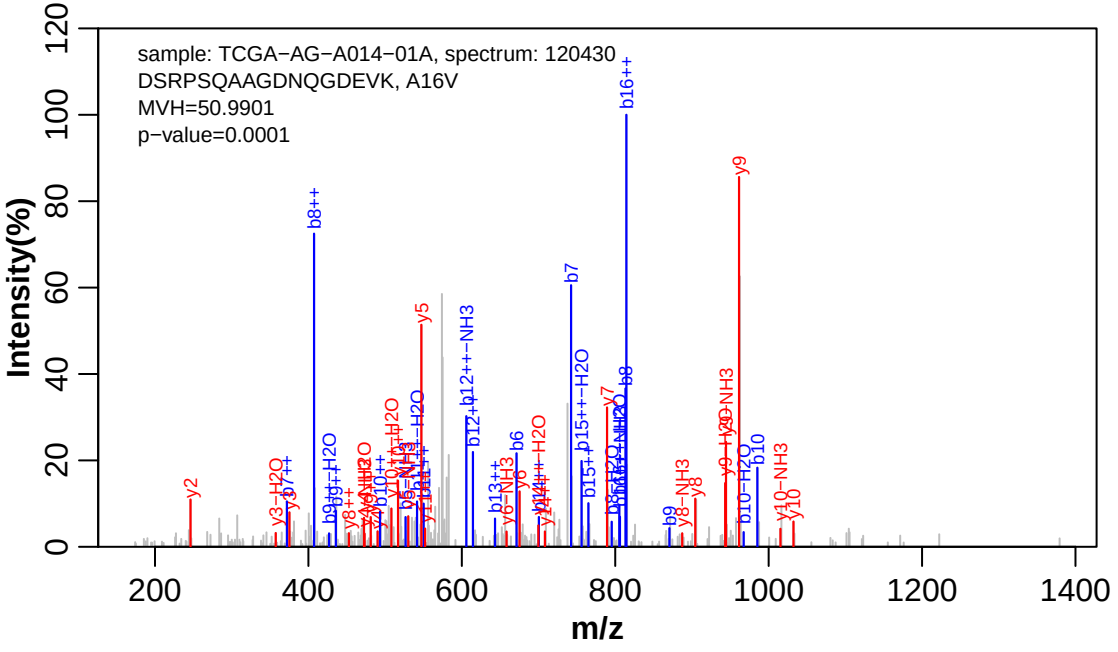

sample: TCGA−AG−A014−01A, spectrum: 5469
AWLSSQAAELER, V7A
MVH=66.9450
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b2−H2O
y2−H2O
y2
b3
y3
b4−H2O
b4
y4
y5
b6−NH3
b6−H2O
y6−H2O
y6−NH3
y6
b7
b7−NH3
b7−H2O
y7
b8
y8
b9
y9
y10
y10−H2O
b10
b11
b11−NH3

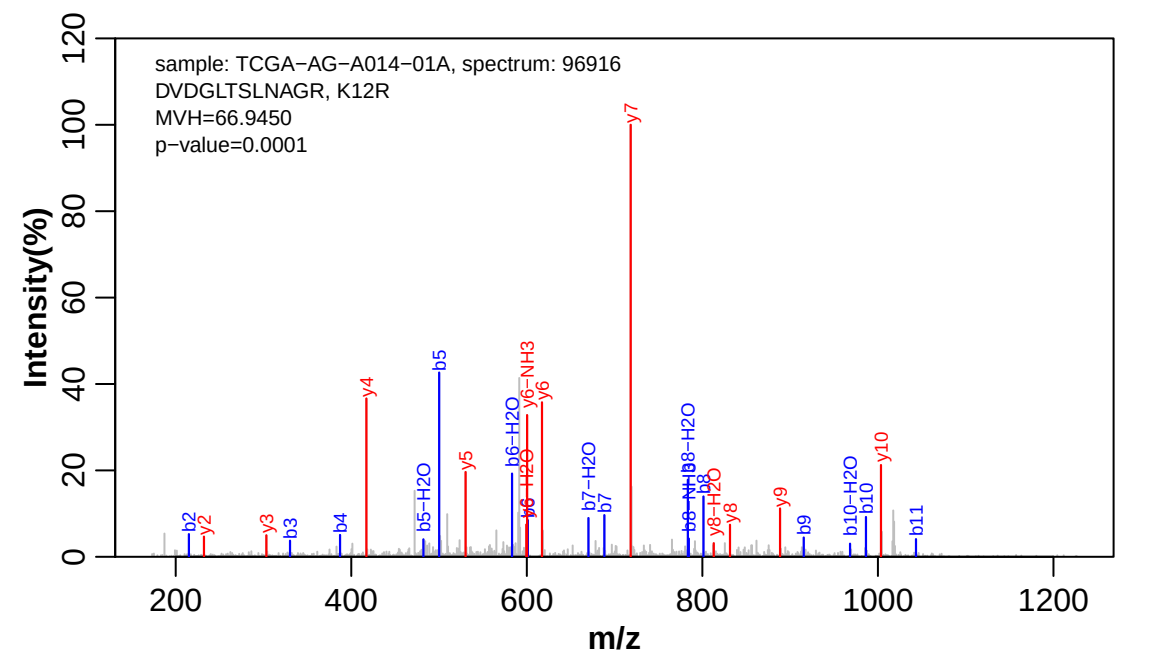

sample: TCGA−AG−A014−01A, spectrum: 92676
CDPGALVLPFSGALELK, Y1C
MVH=53.9714
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b5
b6
b7
b8
y9
y10
y11
y12
y15

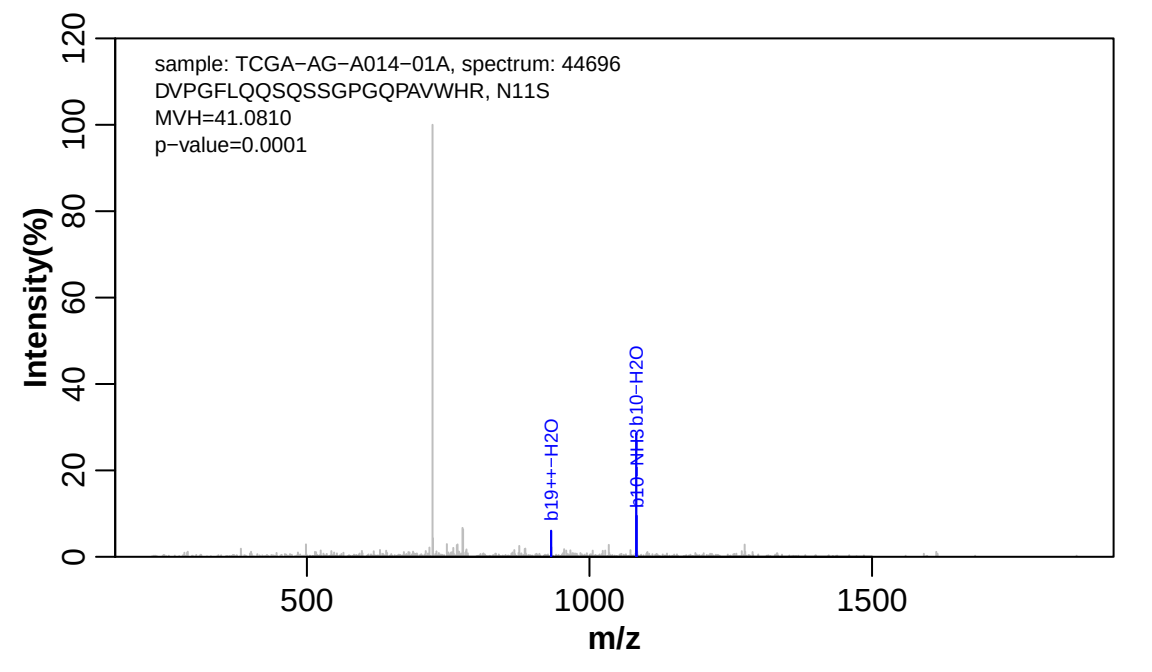

sample: TCGA−AG−A014−01A, spectrum: 7818
DFYVVEPLAFEGTPEQK, I4V
MVH=59.4176
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
b13
y4
b3
b4
y5
b5
y6
b6
b6−H2O
y7
b7
y8
b8
y9
b9
b9−NH3
y10
b10−NH3
b11
b12
y14
b15−NH3
b15

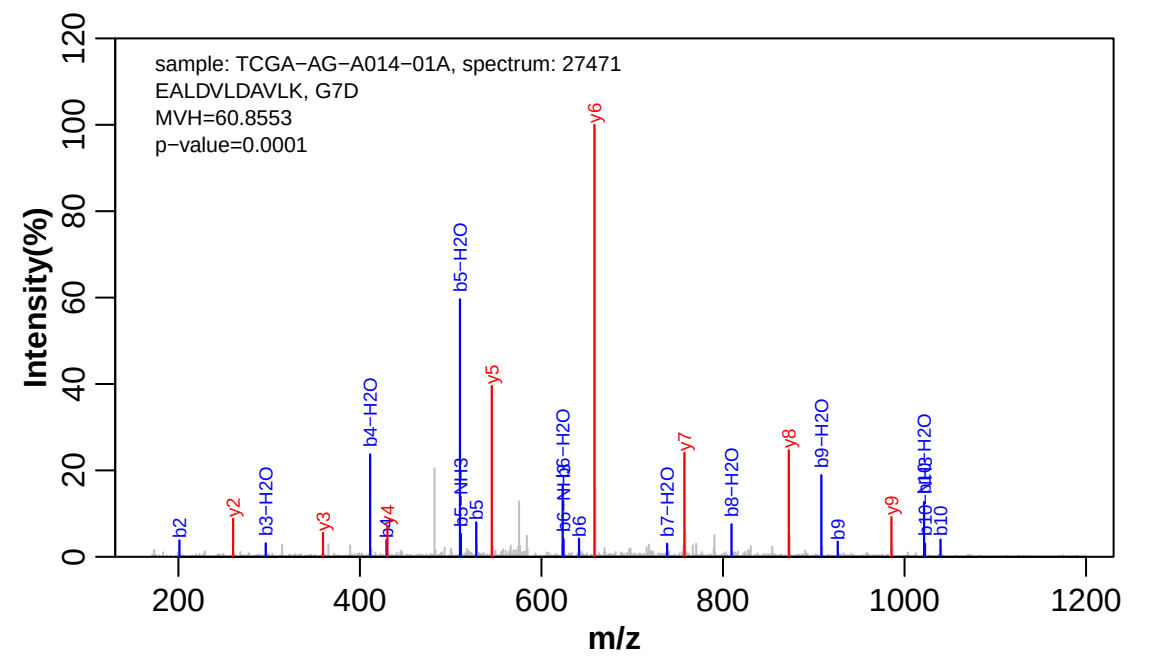

sample: TCGA−AG−A014−01A, spectrum: 114322
DGYGFLNR, N1D
MVH=46.9290
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y5
y3
y4
y2
b3
b5
b5−H2O
b4−H2O
y3−NH3
b4
b6
y6
b2
y2

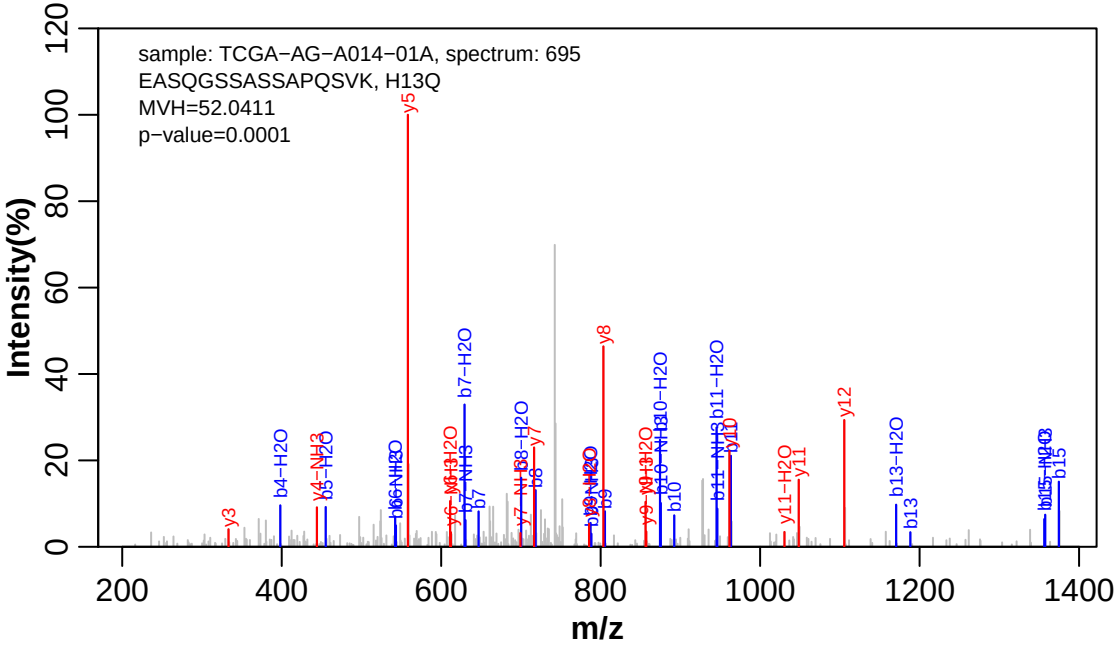

sample: TCGA−AG−A014−01A, spectrum: 27203
DMAGAQAAAVALNEEFLK, R18K
MVH=90.2008
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b5
y4
b6−NH3
b6
b7−H2O
b7
y5
b8
y6
b9
b10
y7
b11
y8
b12−H2O
b12
y9
y10
b13
y11
b14−NH3
b14
y12
y13−H2O
y13
b15
y15
b16
b17

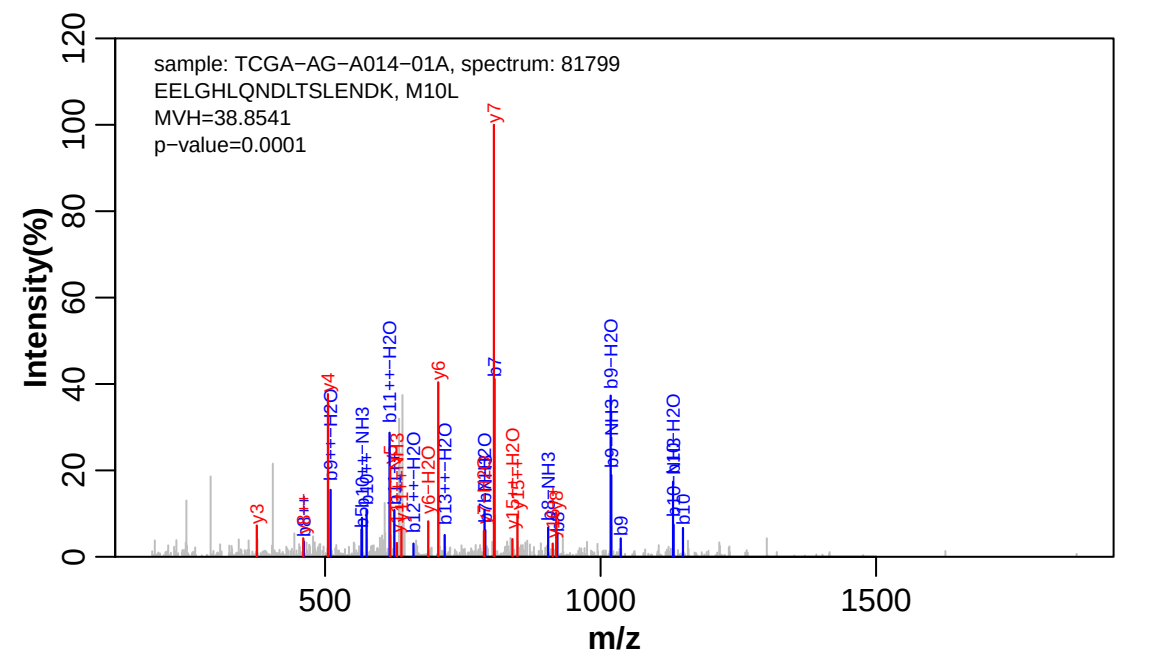

sample: TCGA−AG−A014−01A, spectrum: 120430
DSRPSQAAGDNQGDEVK, A16V
MVH=50.9901
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b8++
b16++
y9
y5
b7
b12++−NH3
b15++−H2O
y2
y3−H2O
y3
b7++
b9++−H2O
y8++
b10++
b13++
y6−NH3
b6
y8
b9
y8−NH3
y9++−NH3
b10−H2O
b10
y10−NH3
y10

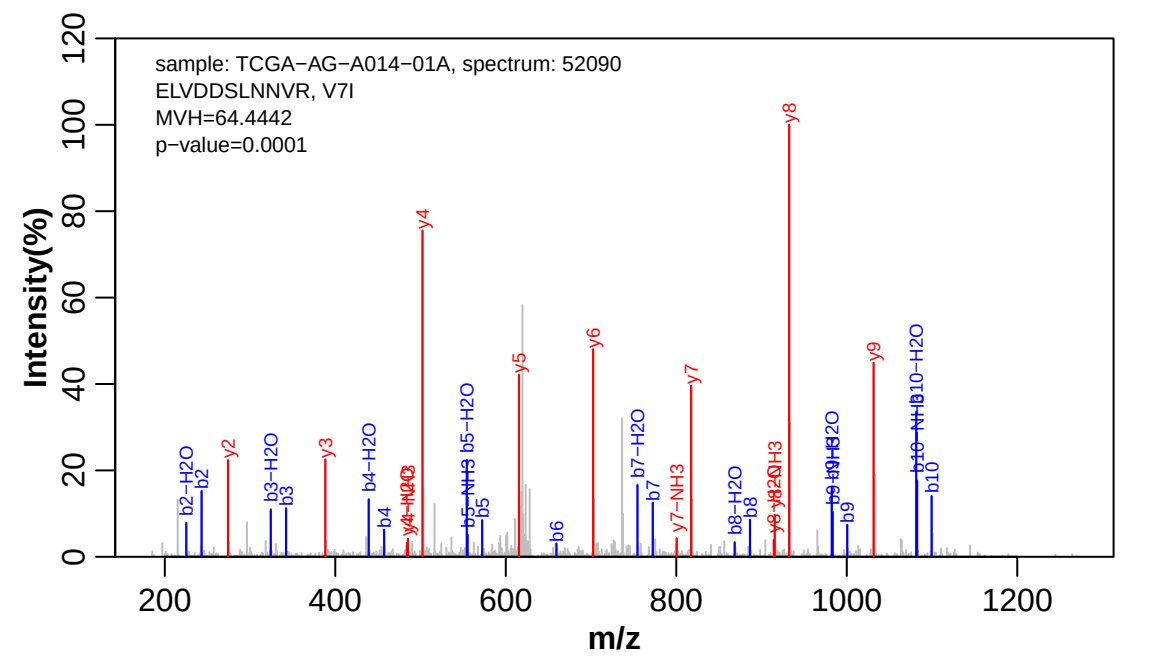

sample: TCGA−AG−A014−01A, spectrum: 96916
DVDGLTSLNAGR, K12R
MVH=66.9450
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−H2O
y6−NH3
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y9
b9
b10−H2O
b10
y10
b11

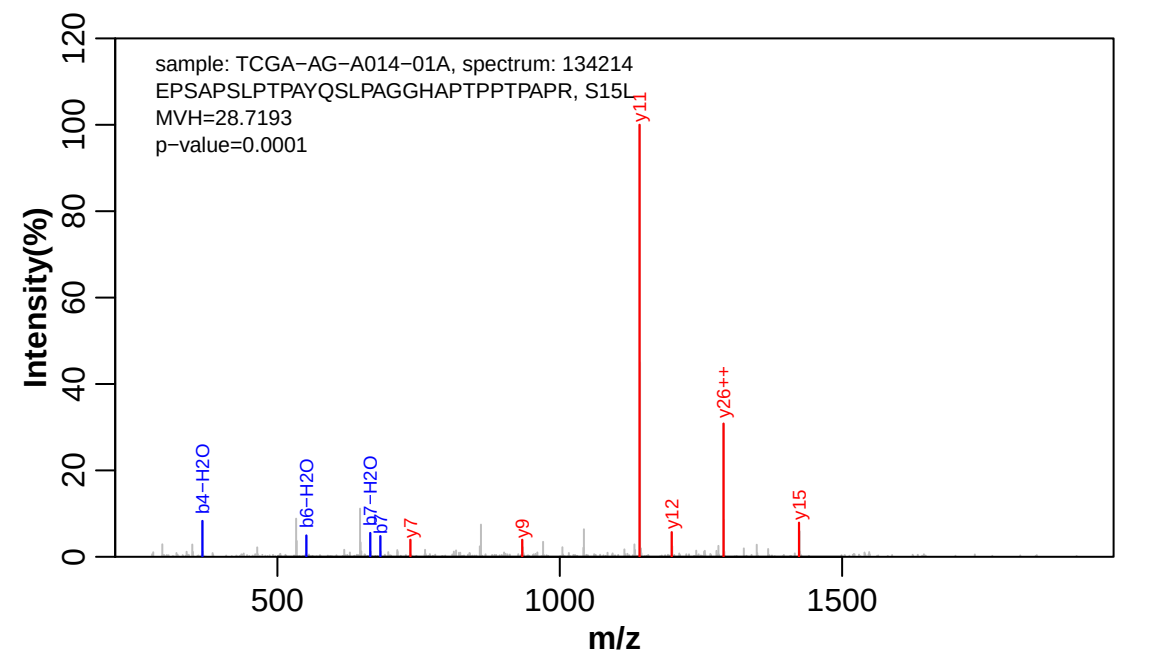

sample: TCGA−AG−A014−01A, spectrum: 44696
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=41.0810
p−value=0.0001
b19++−H2O
b10−NH3
b10−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

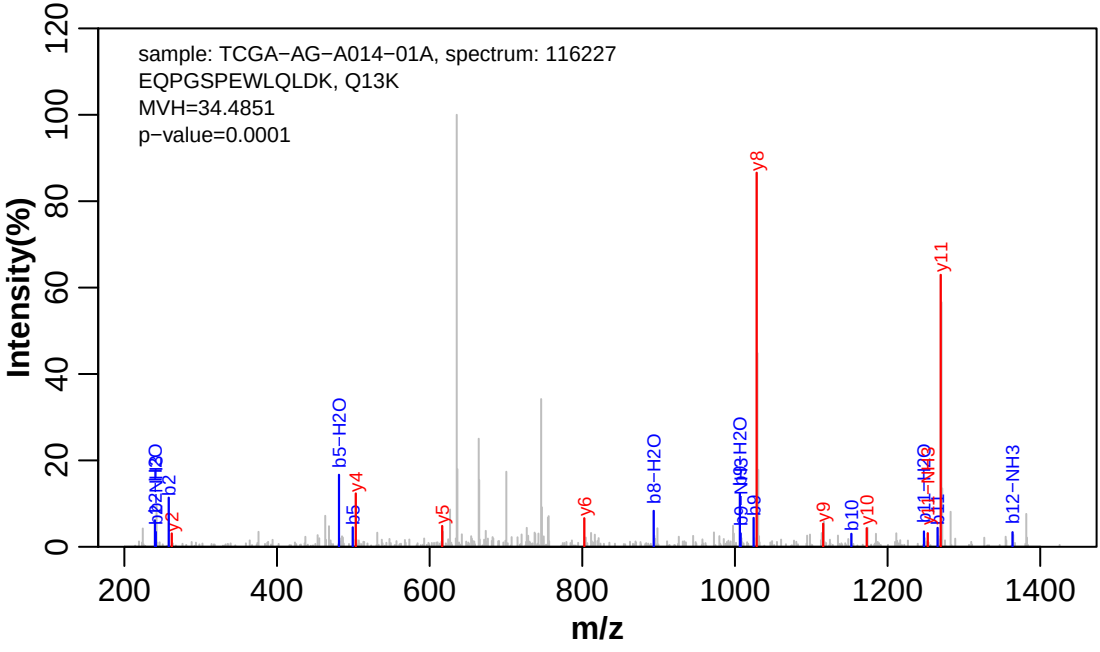

sample: TCGA−AG−A014−01A, spectrum: 27471
EALDVLDAVLK, G7D
MVH=60.8553
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
y5
y6
b6−H2O
b6−NH3
b6
b7−H2O
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

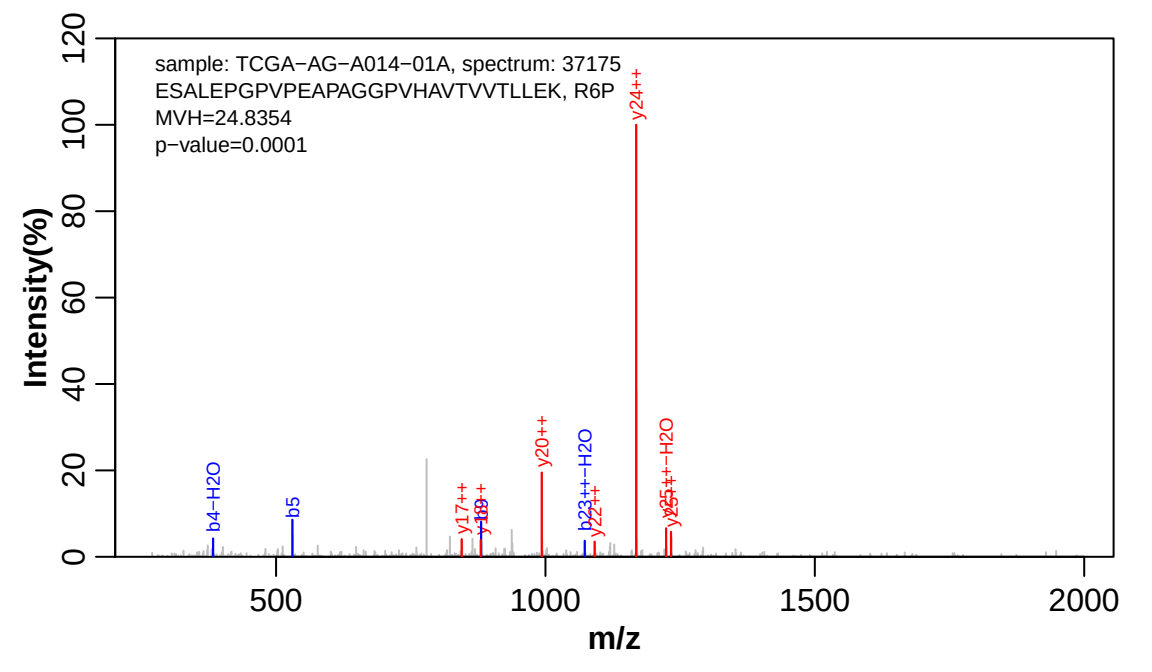

sample: TCGA−AG−A014−01A, spectrum: 695
EASQGSSASSAPQSVK, H13Q
MVH=52.0411
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
y12
b7−H2O
b4−H2O
b11−H2O
b10−H2O
b13−H2O
y11−H2O
y3
y11
b13
b15

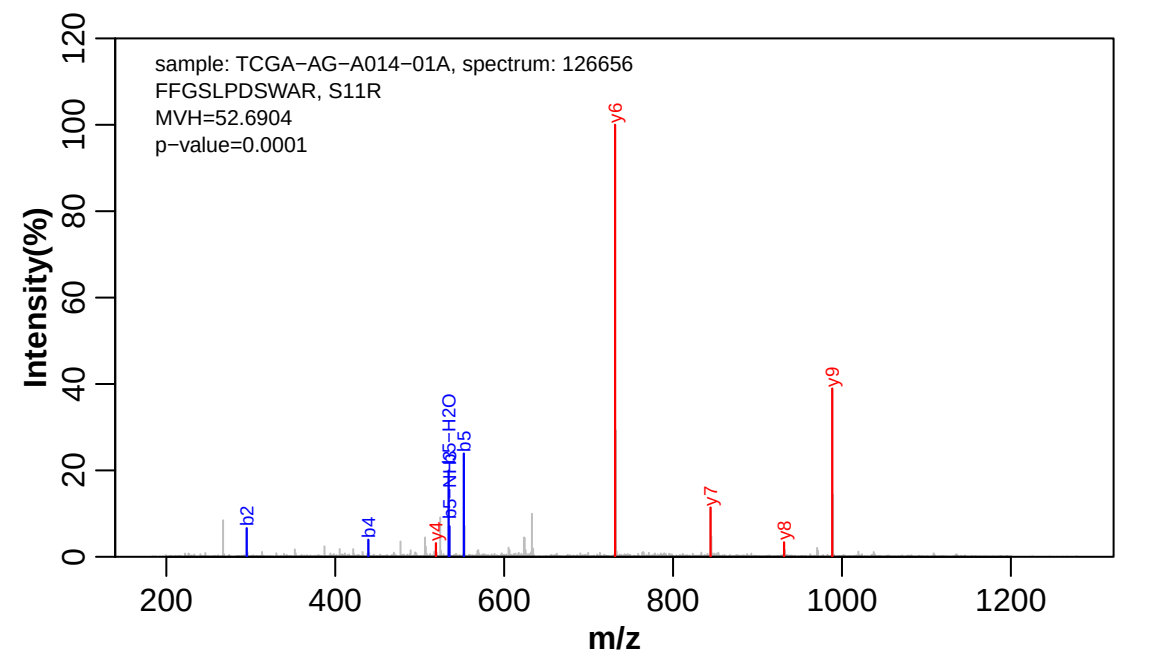

sample: TCGA−AG−A014−01A, spectrum: 81799
EELGHLQNDLTSLENDK, M10L
MVH=38.8541
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y6
y4
y3
b7
b9−H2O
b9−NH3
b9
b10−H2O
b10
b11++−H2O
b11++−NH3
b5
b10++
b9++−H2O
b9++−NH3
b12++−H2O
y6−H2O
b13++−H2O
b8−NH3
y15++−H2O

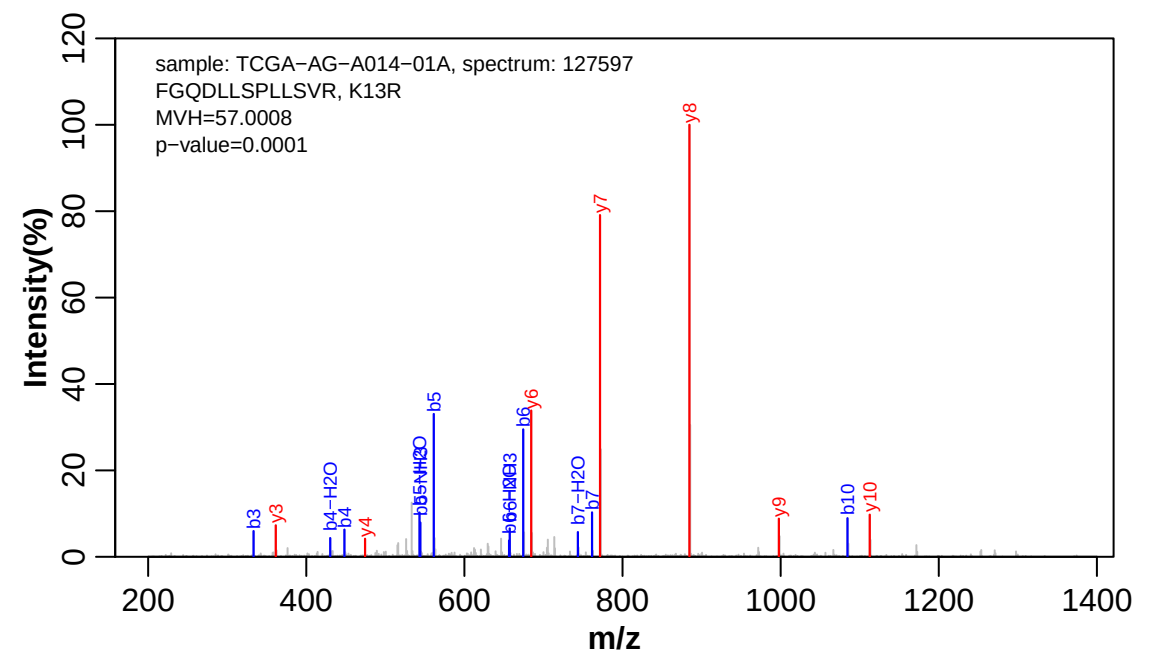

sample: TCGA−AG−A014−01A, spectrum: 52090
ELVDDSLNNVR, V7I
MVH=64.4442
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7−NH3
y7
b8−H2O
b8
y8−NH3
y8
b9−H2O
b9
y9
b10−NH3
b10−H2O
b10

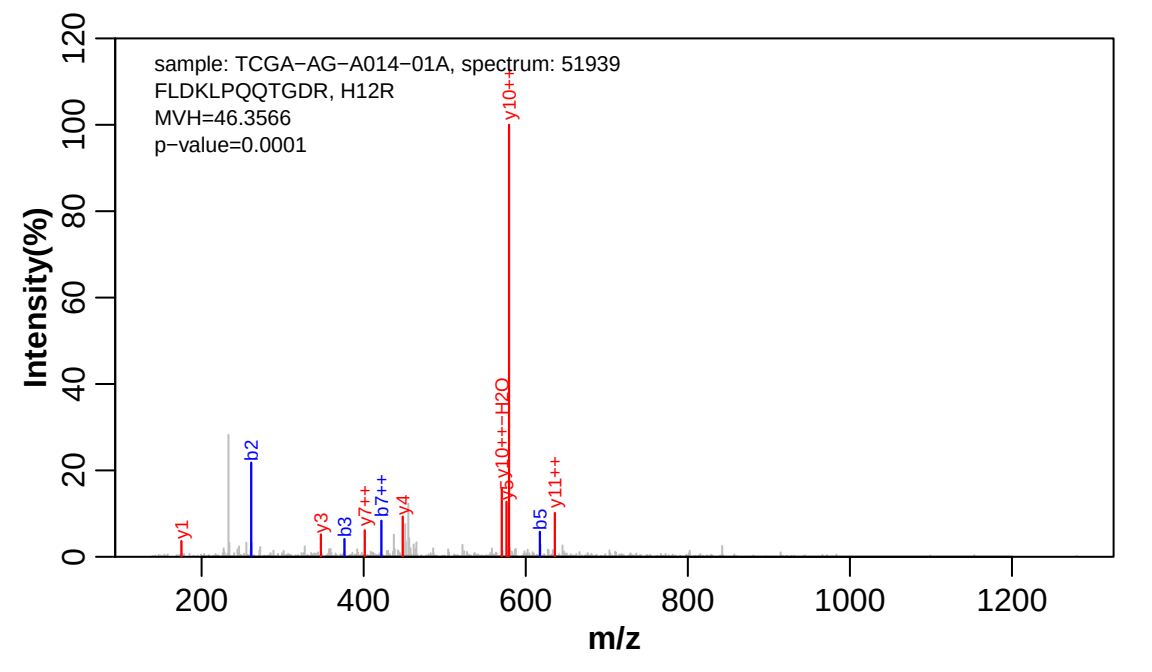

sample: TCGA−AG−A014−01A, spectrum: 134214
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=28.7193
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b4−H2O
b6−H2O
b7−H2O
b7
y7
y9
y11
y12
y26++
y15

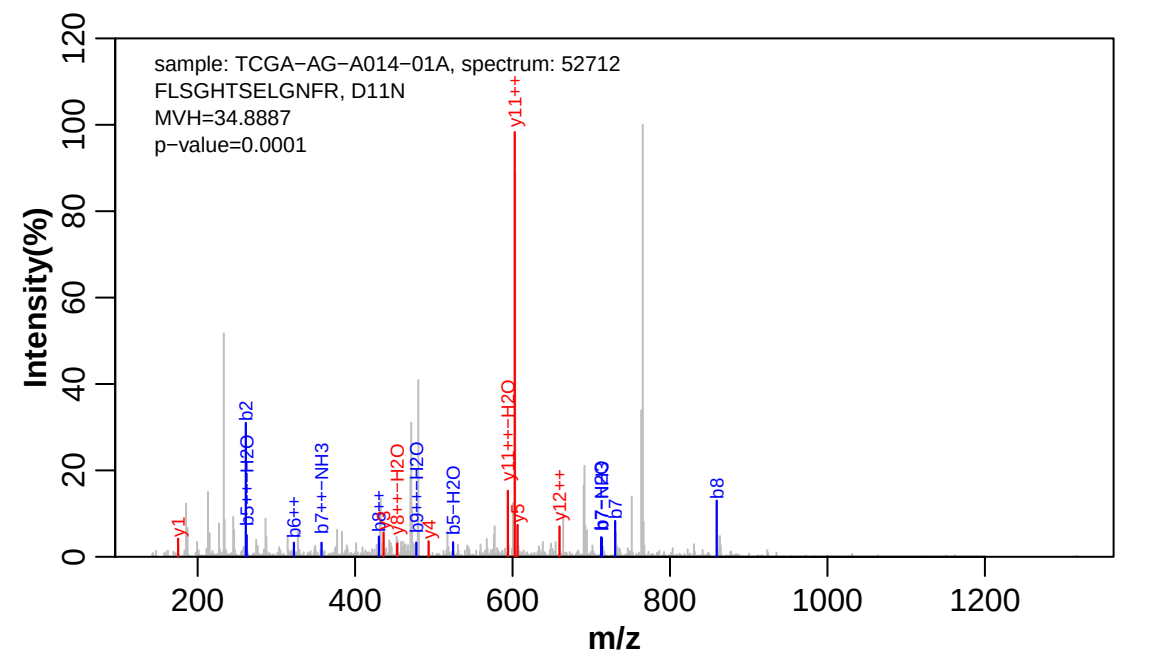

sample: TCGA−AG−A014−01A, spectrum: 116227
EQPGSPEWLQLDK, Q13K
MVH=34.4851
p−value=0.0001
Intensity(%)
m/z
y8
y11
b5−H2O
y4
y5
y6
b8−H2O
y9
b10
y10
b12−NH3
b2
y2

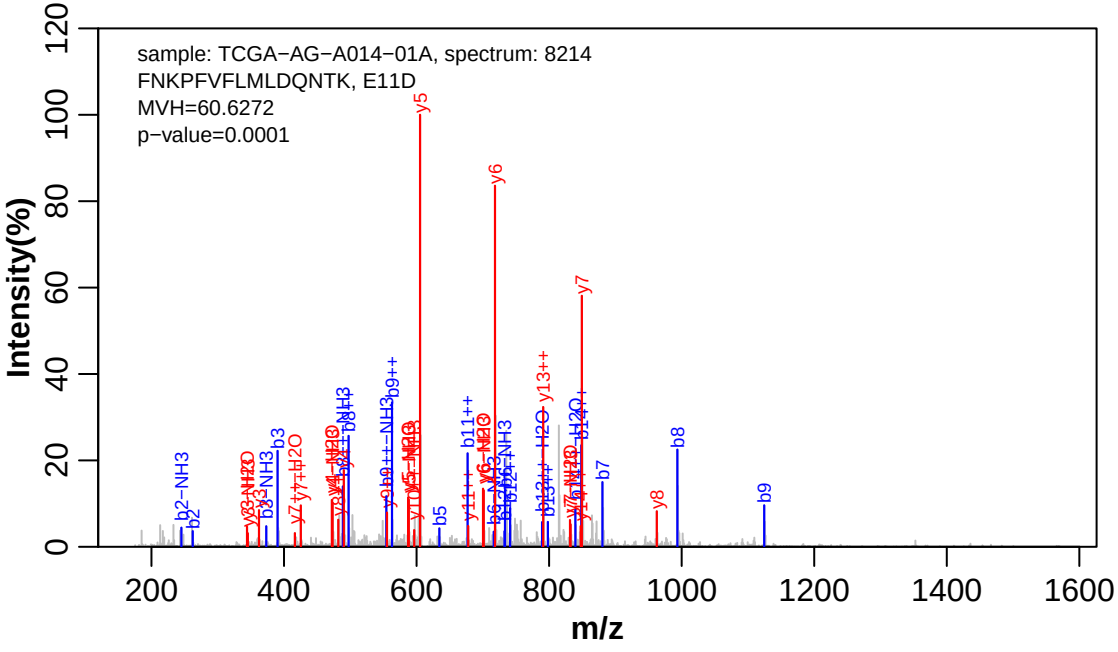

sample: TCGA−AG−A014−01A, spectrum: 37175
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=24.8354
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b4−H2O
b5
y17++
y20++
b23++−H2O
y24++
y25++−H2O

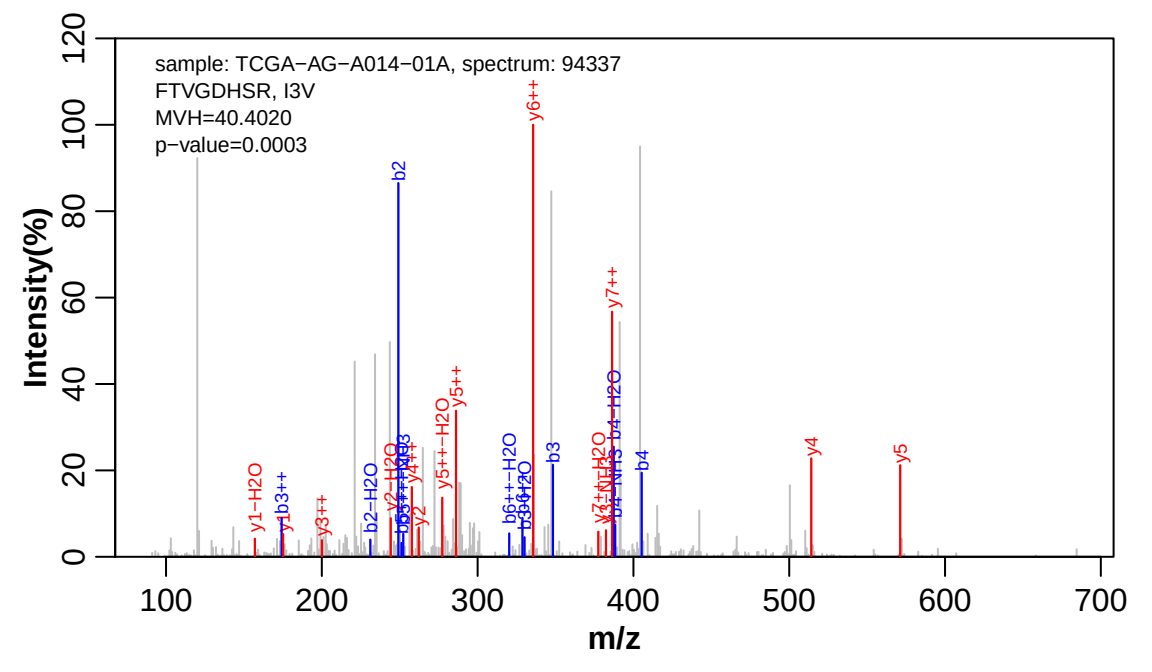

sample: TCGA−AG−A014−01A, spectrum: 126656
FFGSLPDSWAR, S11R
MVH=52.6904
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y9
y7
y8
b2
b4
y4
b5−NH3
b5−H2O
b5

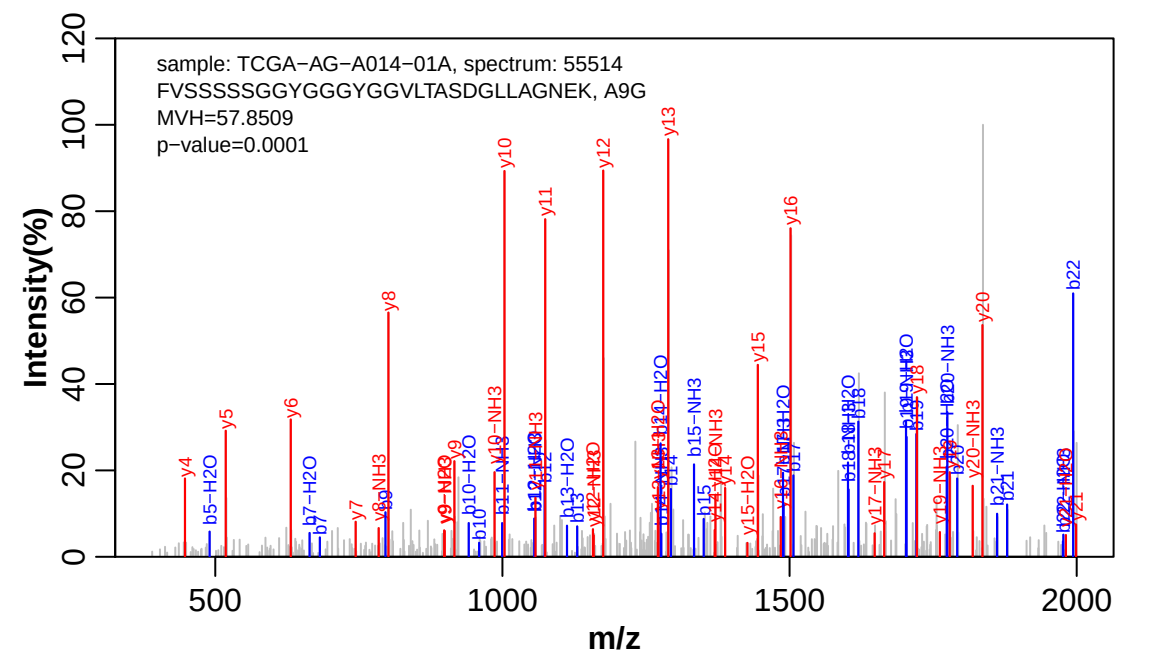

sample: TCGA−AG−A014−01A, spectrum: 127597
FGQDLLSPLLSVR, K13R
MVH=57.0008
p−value=0.0001
Intensity(%)
m/z
b3
y3
b4−H2O
b4
y4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

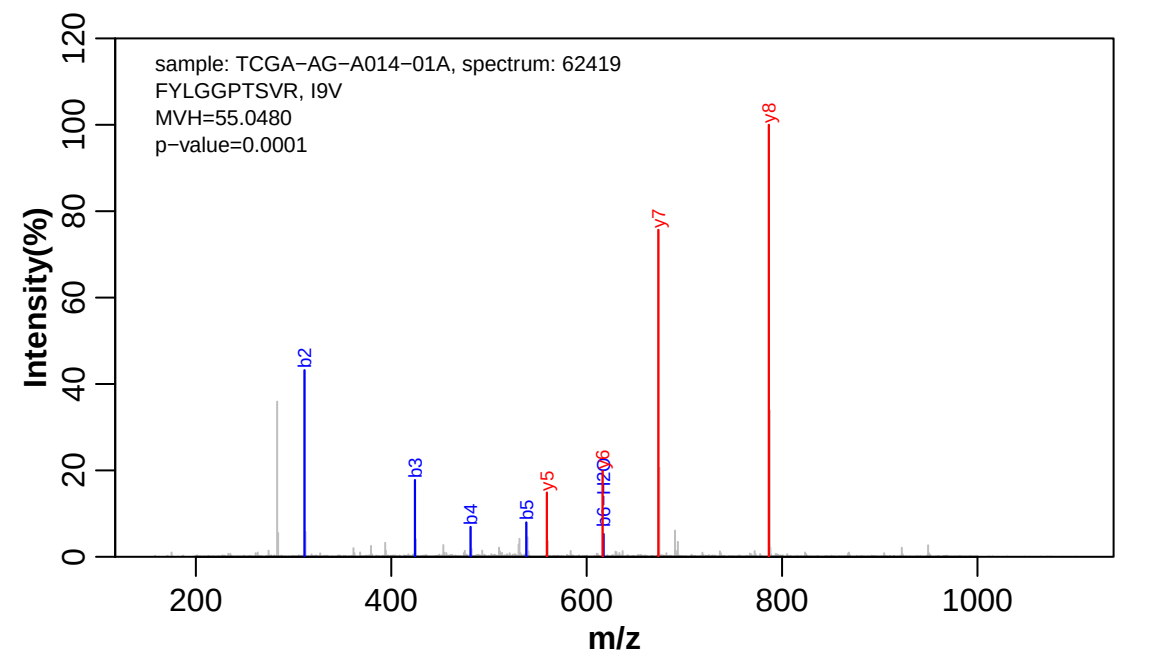

sample: TCGA−AG−A014−01A, spectrum: 51939
FLDKLPQQTGDR, H12R
MVH=46.3566
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
b2
y3
b3
y7++
b7++
y4
y10++−H2O
y10++
y11++
b5

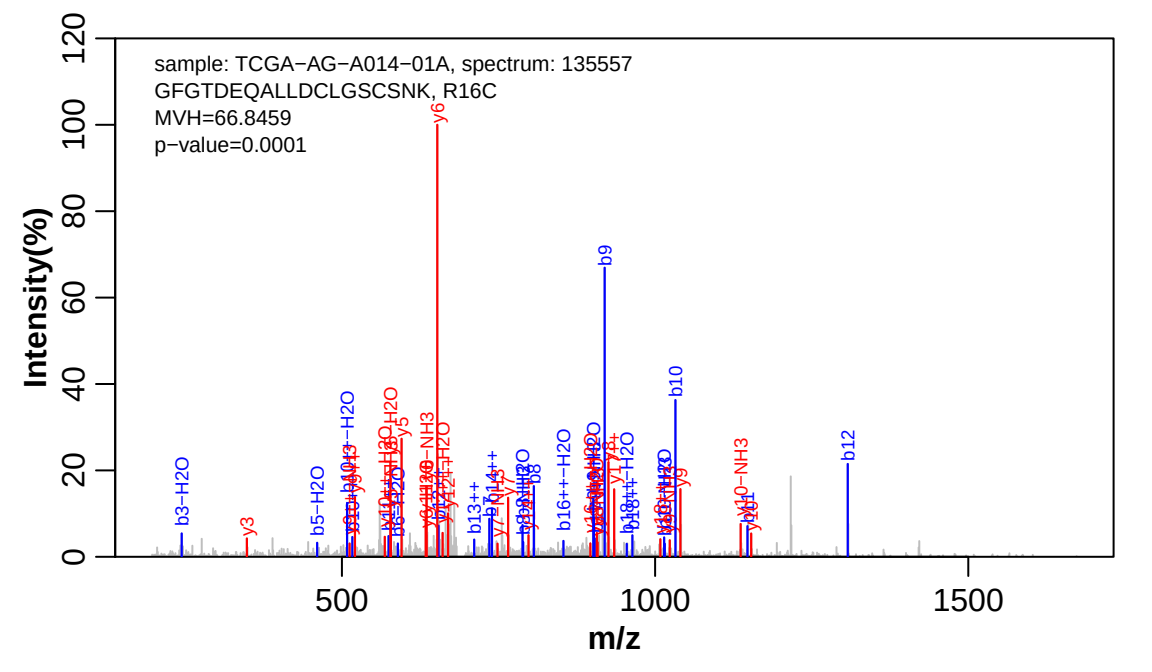

sample: TCGA−AG−A014−01A, spectrum: 52712
FLSGHTSELGNFR, D11N
MVH=34.8887
p−value=0.0001
Intensity(%)
m/z
y11++
y11++−H2O
b2
b5++−H2O
b6++
b7++−NH3
b8++
y8++−H2O
b9++−H2O
y4
b5−H2O
y5
y12++
b7−NH3
b7
b8
y1

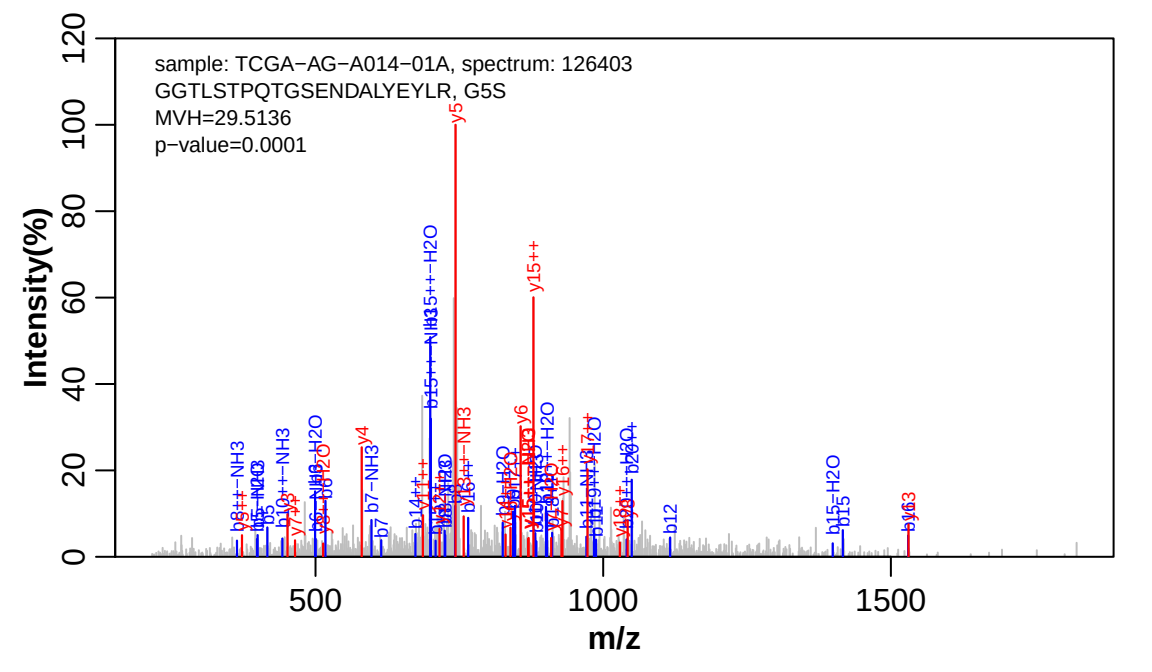

sample: TCGA−AG−A014−01A, spectrum: 8214
FNKPFVFLMLDQNTK, E11D
MVH=60.6272
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
b2−NH3
b2
b3
b5
b7
b8
b9
y8

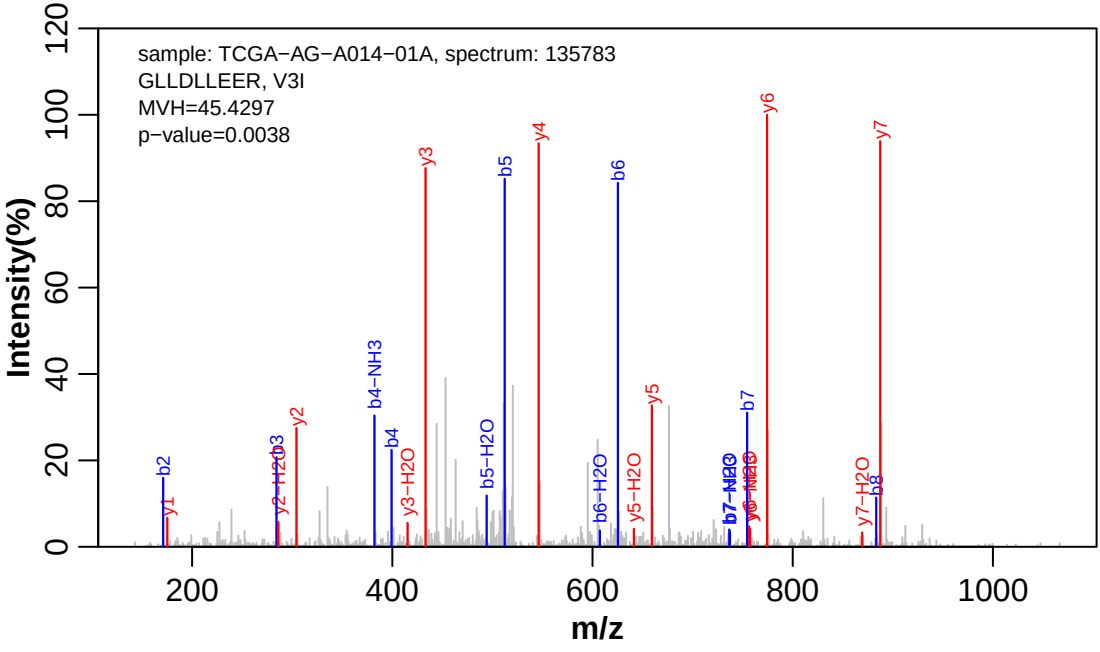

sample: TCGA−AG−A014−01A, spectrum: 94337
FTVGDHSR, I3V
MVH=40.4020
p−value=0.0003
Intensity(%)
m/z
y6++
b2
y7++
y5++
y4
y5
b3
b4
y1−H2O
y1
b3++
y3++
b2−H2O
y2−H2O
y4++
y2
y5++−H2O
b6++−H2O
b3o+2H2O
y7++−H2O
b4−NH3
b4−H2O

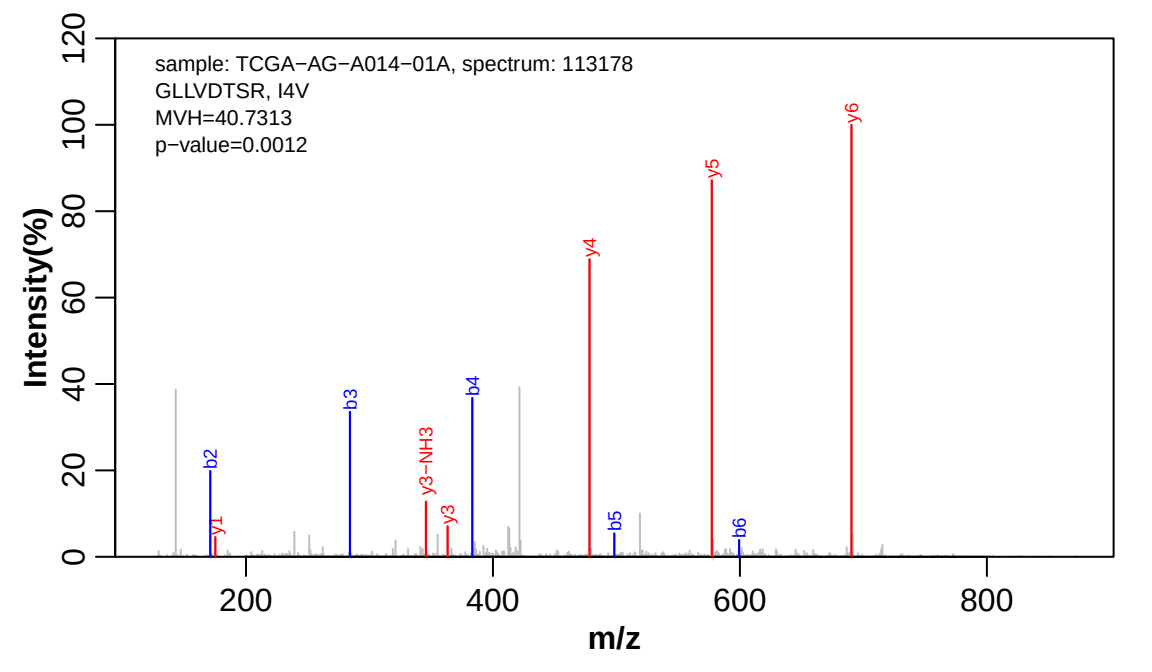

sample: TCGA−AG−A014−01A, spectrum: 55514
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=57.8509
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
b5−H2O
y5
y6
b7−H2O
b7
y7
y8
b8−NH3
b8
y8−NH3
y9
b10−H2O
b10
b11−NH3
y10
b12
y11
b13−H2O
b13
y12
b14
y13
b15−NH3
b15
y14−NH3
y14
y15−H2O
y15
y16
b17
y17−NH3
y17
b18
y18
b19
y19−NH3
y19
b20−NH3
b20
y20−NH3
y20
b21−NH3
b21
b22
y21

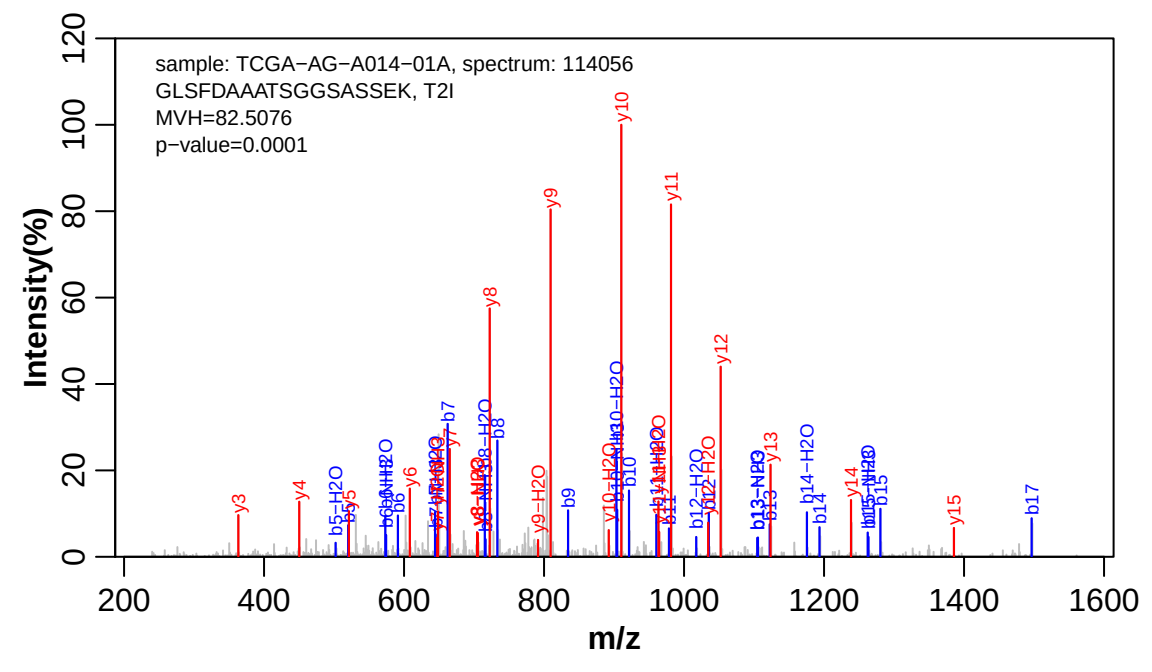

sample: TCGA−AG−A014−01A, spectrum: 62419
FYLGGPTSVR, I9V
MVH=55.0480
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

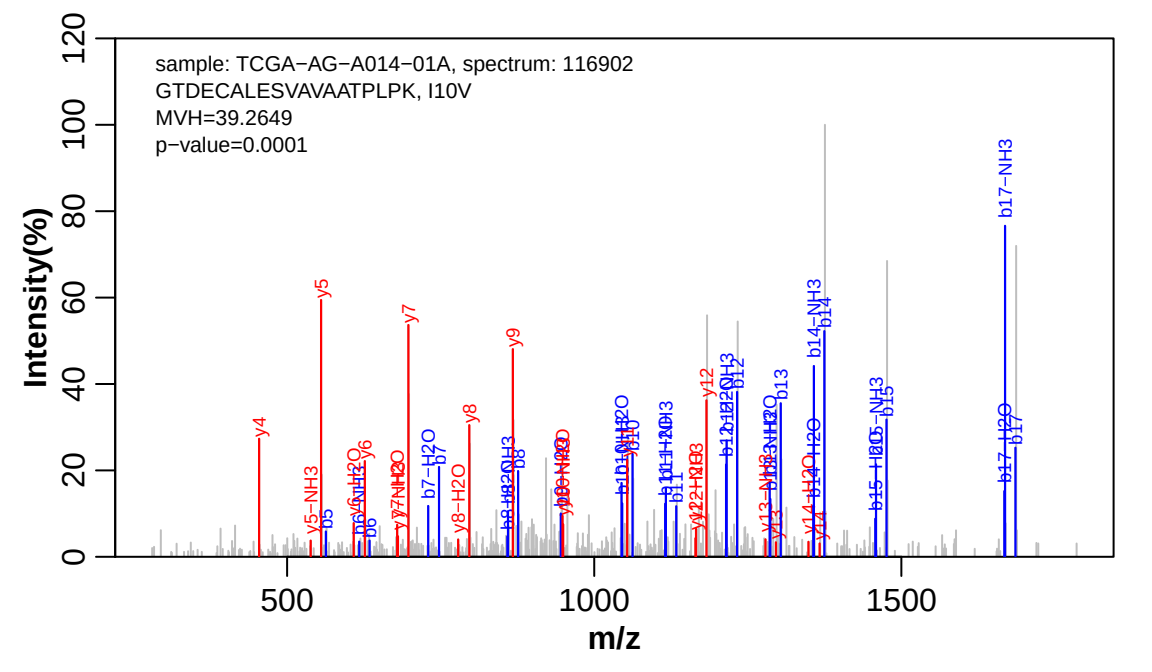

sample: TCGA−AG−A014−01A, spectrum: 135557
GFGTDEQALLDCLGSCSNK, R16C
MVH=66.8459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
b9
b10
b12
b3−H2O
y3
b5−H2O
y5
b13++
b16++−H2O
b11++−H2O
y11−NH3

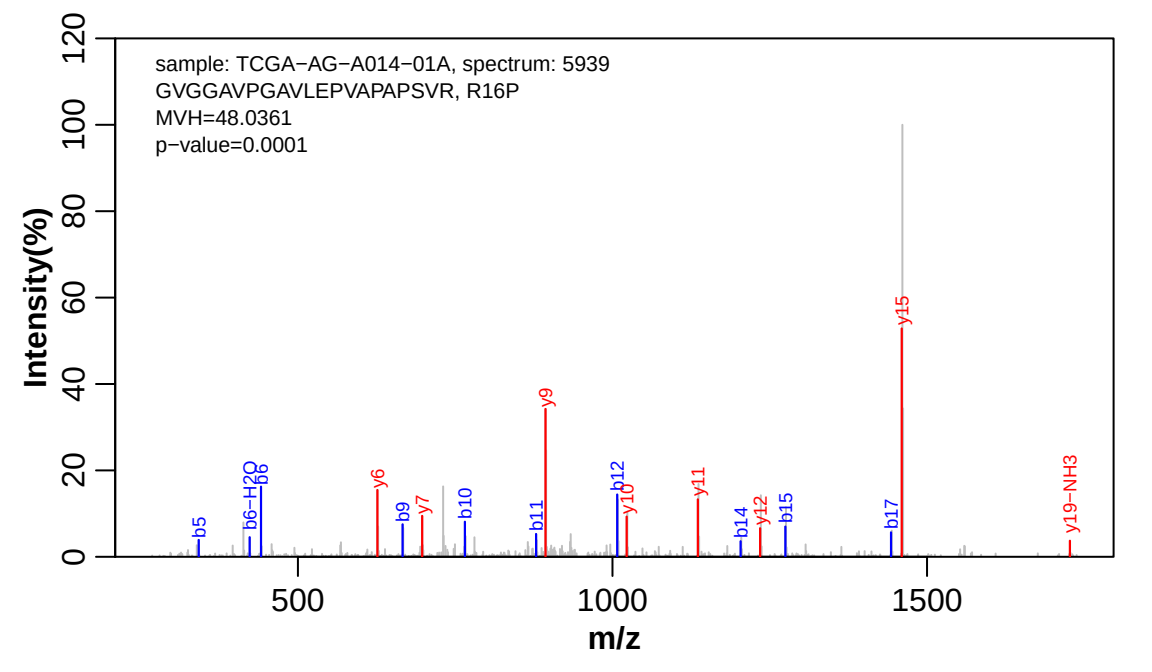

sample: TCGA−AG−A014−01A, spectrum: 126403
GGTLSTPQTGSENDALYEYLR, G5S
MVH=29.5136
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y15++
y4
b7−NH3
b7
b12
b15−H2O
b15
b16
y16++
y6
y7
y8
y9
y10
y11
y12
y13
y14
b5
b6
b8
b9
b10
b11
b13
b14
b15++
b16++
b17++
b18++
b19++
b20++
y14++
y15+
y16+
y17+
y18+
y19+
y20+
y21+
y22+
y23+
y24+
y25+
y26+
y27+
y28+
y29+
y30+
y31+
y32+
y33+
y34+
y35++
y6−H2O
y7−H2O
y8−H2O
y9−H2O
y10−H2O
y11−H2O
y12−H2O
y13−H2O
y14−H2O
y15−H2O
y16−H2O
y17−H2O
y18−H2O
y19−H2O
y20−H2O
y21−H2O
y22−H2O
y23−H2O
y24−H2O
y25−H2O
y26−H2O
y27−H2O
y28−H2O
y29−H2O
y30−H2O
y31−H2O
y32−H2O
y33−H2O
y34−H2O
y35++−H2O
b5−H2O
b6−H2O
b8−H2O
b9−H2O
b10−H2O
b11−H2O
b13−H2O
b14−H2O
b15++−H2O
b16++−H2O
b17++−H2O
b18++−H2O
b19++−H2O
b20++−H2O
b21++−H2O
b22++−H2O
b23++−H2O
b24++−H2O
b25++−H2O
b26++−H2O
b27++−H2O
b28++−H2O
b29++−H2O
b30++−H2O
b31++−H2O
b32++−H2O
b33++−H2O
b34++−H2O
b35++−H2O
b5−NH3
b6−NH3
b8−NH3
b9−NH3
b10−NH3
b11−NH3
b13−NH3
b14−NH3
b15++−NH3
b16++−NH3
b17++−NH3
b18++−NH3
b19++−NH3
b20++−NH3
b21++−NH3
b22++−NH3
b23++−NH3
b24++−NH3
b25++−NH3
b26++−NH3
b27++−NH3
b28++−NH3
b29++−NH3
b30++−NH3
b31++−NH3
b32++−NH3
b33++−NH3
b34++−NH3
b35++−NH3
y9++
y10++
y11++
y12++
y13++
y14++
y15++
y16++
y17++
y18++
y19++
y20++
y21++
y22++
y23++
y24++
y25++
y26++
y27++
y28++
y29++
y30++
y31++
y32++
y33++
y34++
y35++
b5
b6
b8
b9
b10
b11
b13
b14
b15++
b16++
b17++
b18++
b19++
b20++
b21++
b22++
b23++
b24++
b25++
b26++
b27++
b28++
b29++
b30++
b31++
b32++
b33++
b34++
b35++

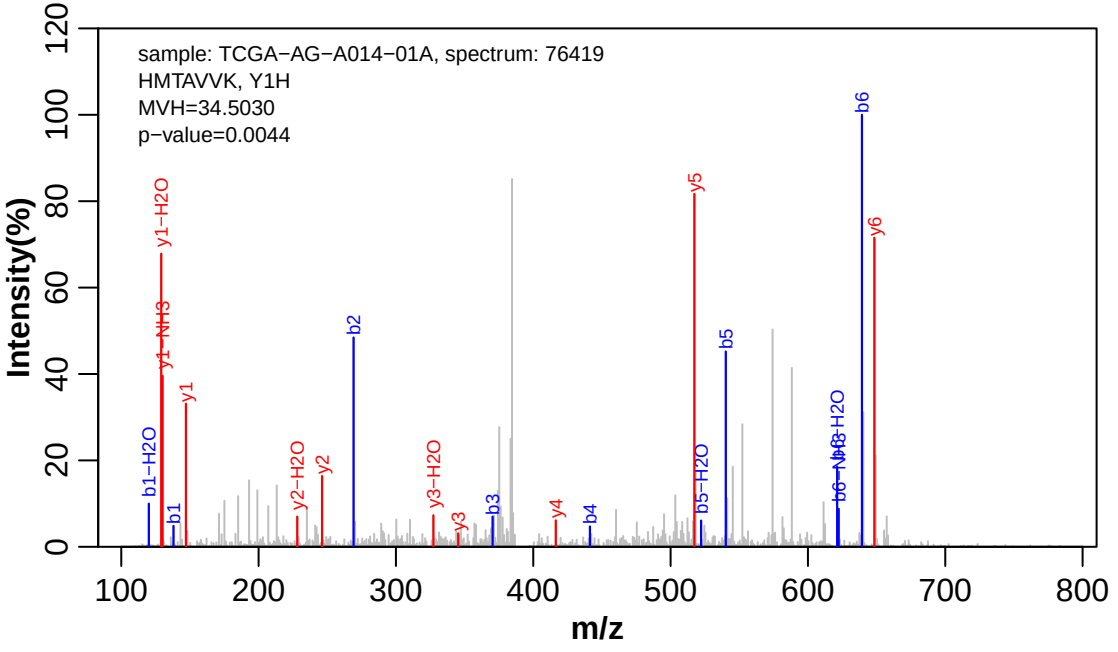

sample: TCGA−AG−A014−01A, spectrum: 135783
GLLDLLEER, V3I
MVH=45.4297
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y1
y2
y2−H2O
b3
b4
b4−NH3
y3
y3−H2O
b5
b5−H2O
y4
b6
b6−H2O
y5
y5−H2O
b7
y6
y6−NH3
y7
y7−H2O
b8

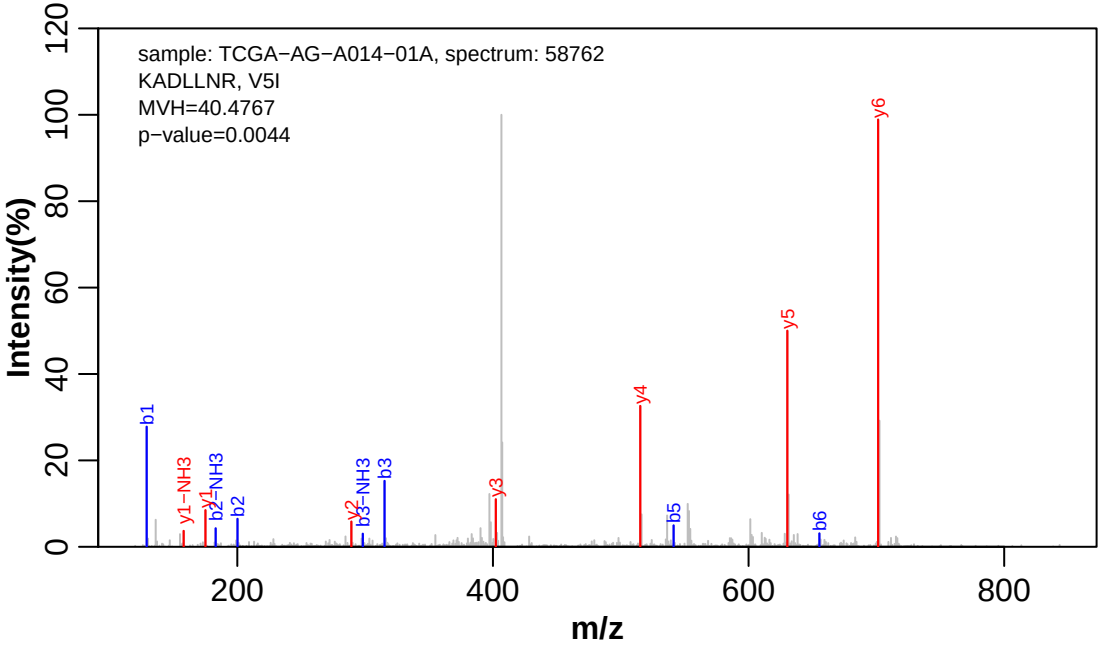

sample: TCGA−AG−A014−01A, spectrum: 113178
GLLVDTSR, I4V
MVH=40.7313
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y6
y5
y4
b4
b3
b2
y1
y3−NH3
y3
b5
b6

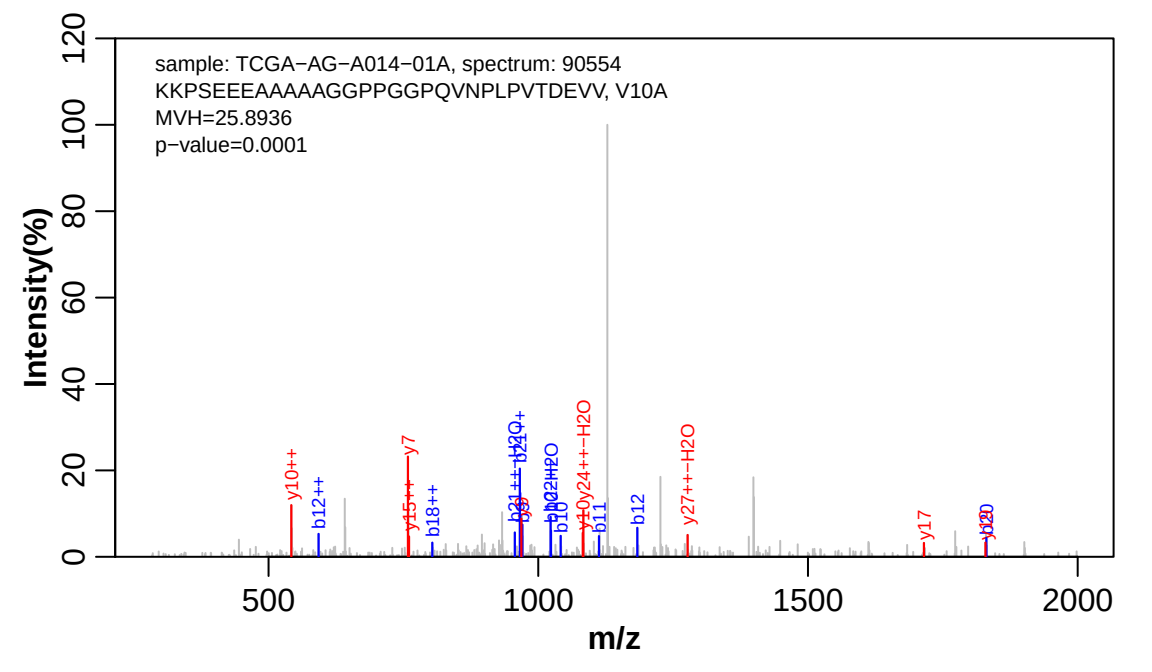

sample: TCGA−AG−A014−01A, spectrum: 114056
GLSFDAAATSGGSASSEK, T2I
MVH=82.5076
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y11
y9
y8
y12
y13
y14
y15
y3
y4
y6
b17
b14−H2O
b8
b9
y9−H2O
y12−H2O
b5−H2O

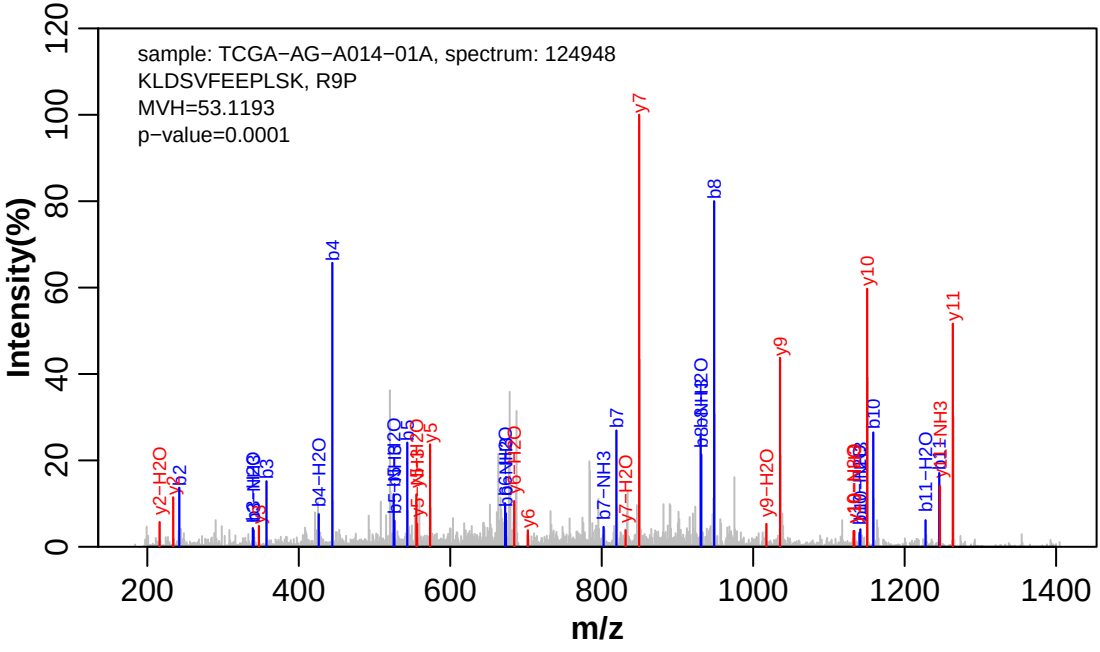

sample: TCGA−AG−A014−01A, spectrum: 116902
GTDECALESVAVAATPLPK, I10V
MVH=39.2649
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y5−NH3
b5
y6
y6−NH3
b6
y7
y7−NH3
b7−H2O
b7
y8−H2O
y8
y9
b8
b11
y12
b12
b13
b14−NH3
b14
b15
b17−NH3
b17−H2O
b17

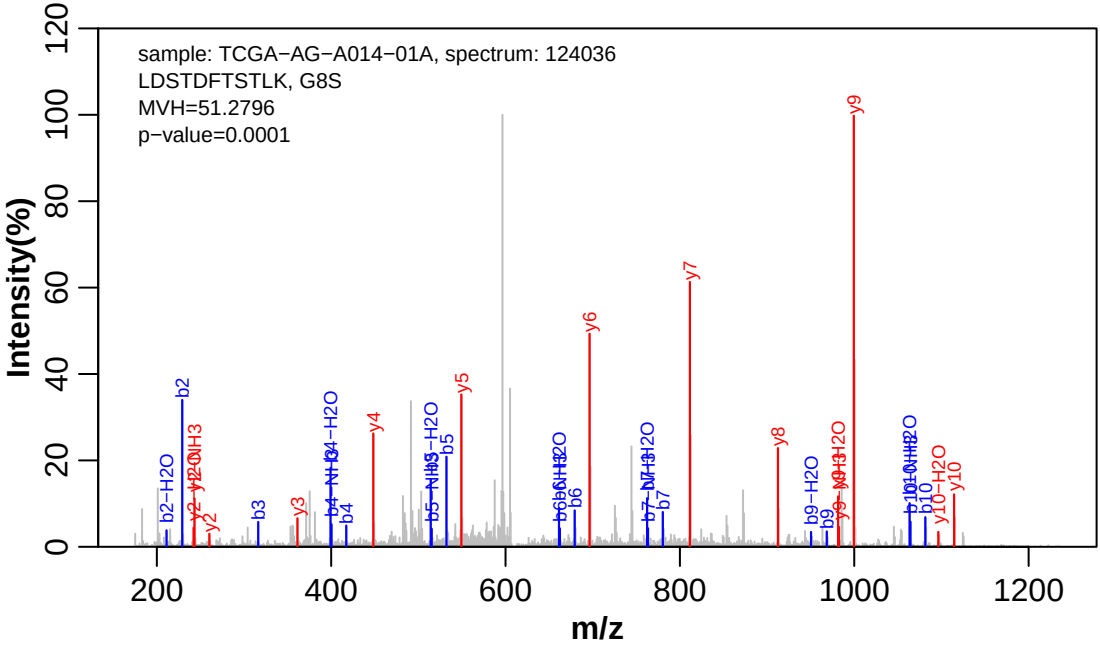

sample: TCGA−AG−A014−01A, spectrum: 5939
GVGGAVPGAVLEPVAPAPSVR, R16P
MVH=48.0361
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5
b6−H2O
b6
y6
b9
y7
b10
b11
y9
y10
b12
y11
b14
y12
b15
b17
y15
y19−NH3

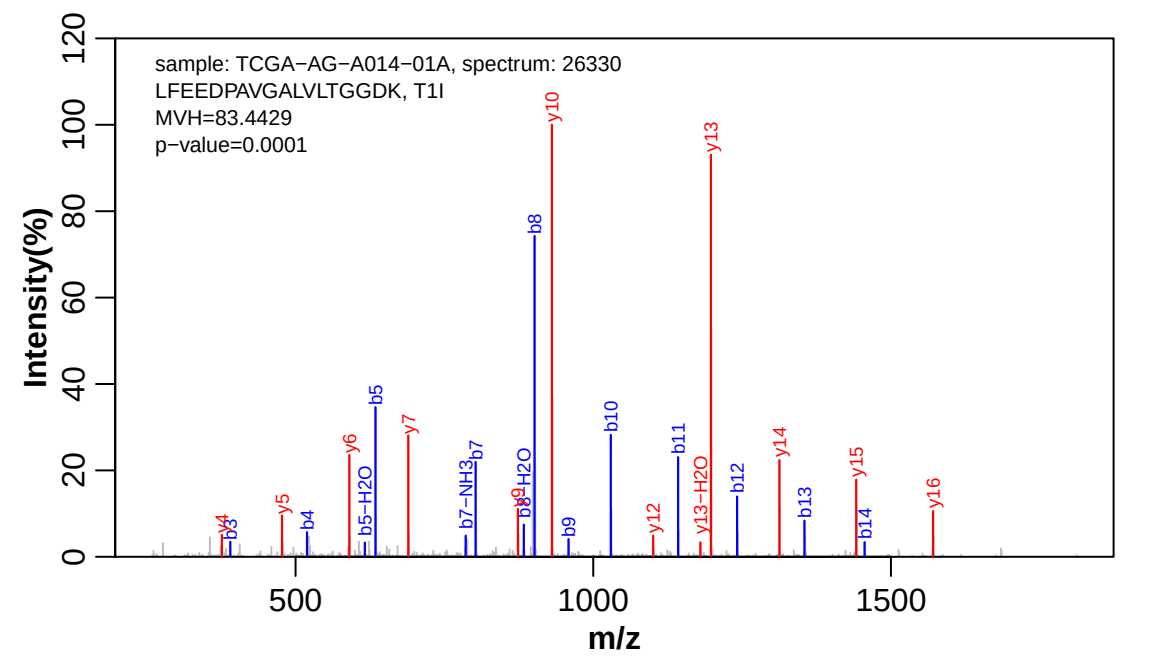

sample: TCGA−AG−A014−01A, spectrum: 76419
HMTAVVK, Y1H
MVH=34.5030
p−value=0.0044
Intensity(%)
m/z
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
b1−H2O
b1
y1−H2O
y1−NH3
y1
b2
y2−H2O
y2
y3−H2O
y3
b3
y4
b4
y5
b5−H2O
b5
b6−NH3−H2O
b6
y6

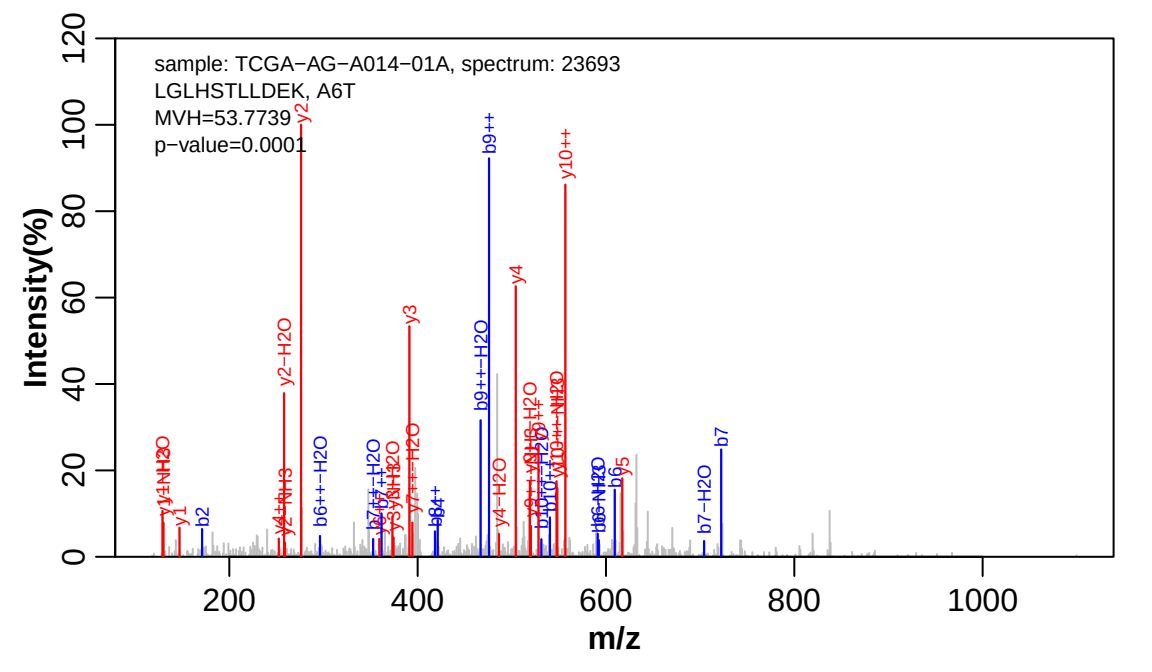

sample: TCGA−AG−A014−01A, spectrum: 58762
KADLLNR, V5I
MVH=40.4767
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1−NH3
y1
b2−NH3
b2
y2
b3−NH3
b3
y3
y4
b5
y5
b6
y6

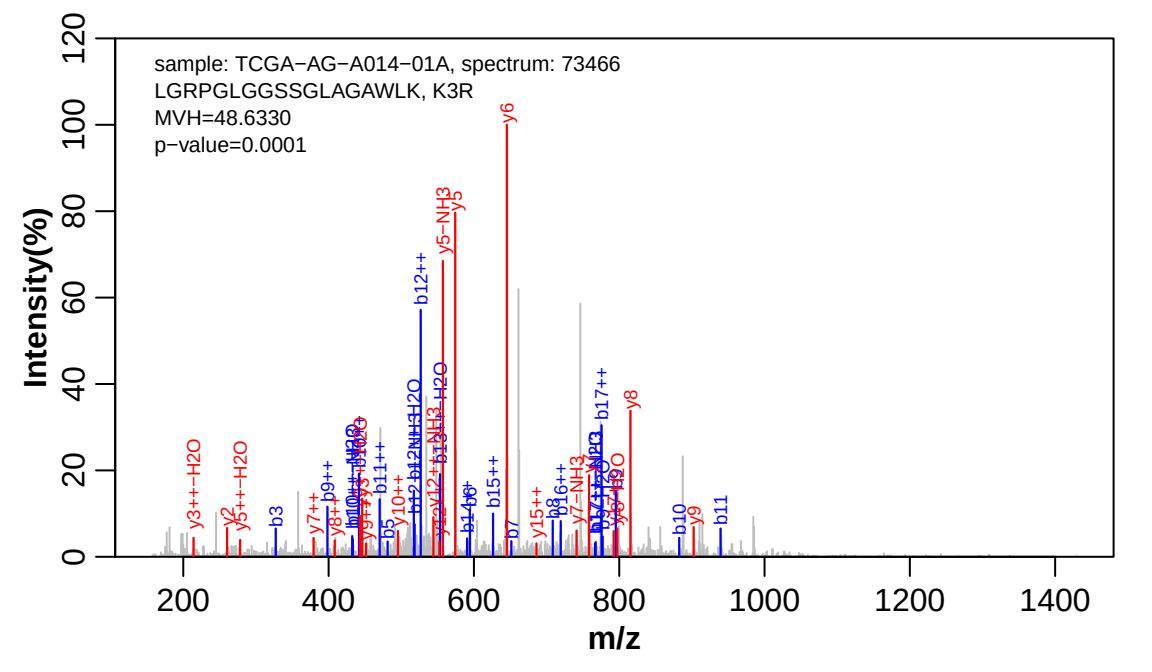

sample: TCGA−AG−A014−01A, spectrum: 90554
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV, V10A
MVH=25.8936
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b12++
y15++
y7
b18++
b21++−H2O
b21++
b21++−H2O+
b9
b10
b10−H2O
y10y24++−H2O
b11
b12
y27++−H2O
y17
y20

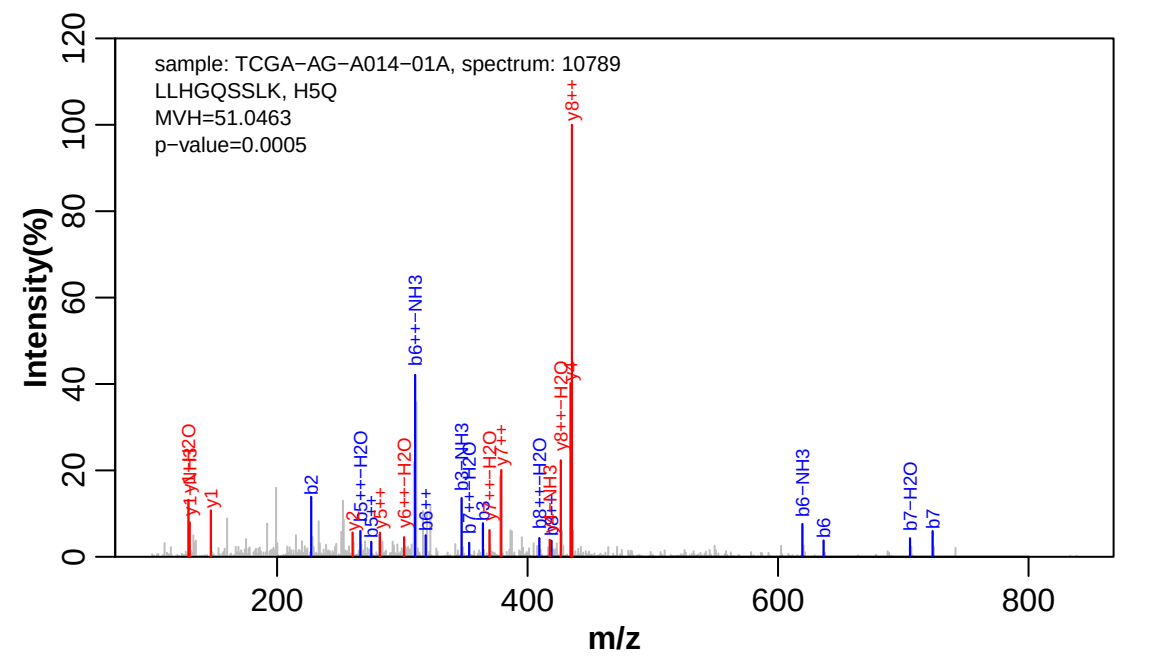

sample: TCGA−AG−A014−01A, spectrum: 124948
KLDSVFEEPLSK, R9P
MVH=53.1193
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
b8
b4
y10
y11
y9
b7
b10
y5
y6
b5
b6
b11−H2O
y11−NH3
y9−H2O
y7−H2O
b7−NH3
b4−H2O
y2−H2O
b2
b3
y8
b9
y1
y4

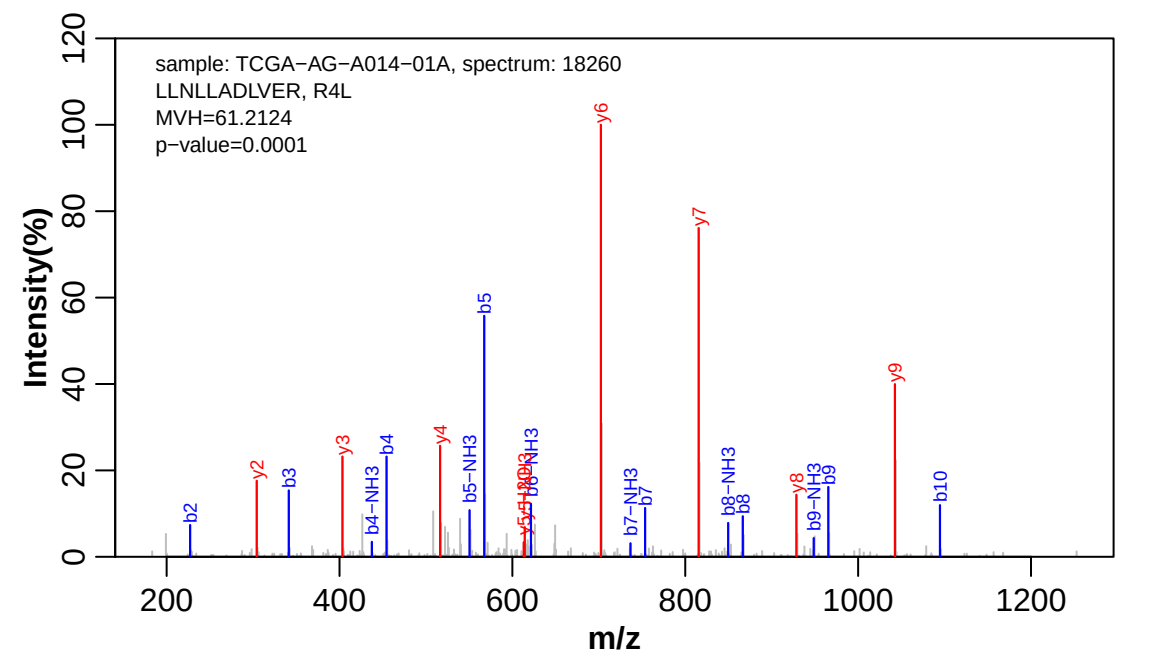

sample: TCGA−AG−A014−01A, spectrum: 124036
LDSTDFTSTLK, G8S
MVH=51.2796
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b2−H2O
b2−NH3
y2
y2−H2O
y2−NH3
b3
y3
b4
b4−H2O
b4−NH3
y4
b5
b5−H2O
b5−NH3
y5
b6
b6−H2O
b6−NH3
y6
b7
b7−H2O
b7−NH3
y7
y8
b9
b9−H2O
b9−NH3
y9
y9−H2O
y9−NH3
b10
b10−H2O
b10−NH3
y10
y10−H2O

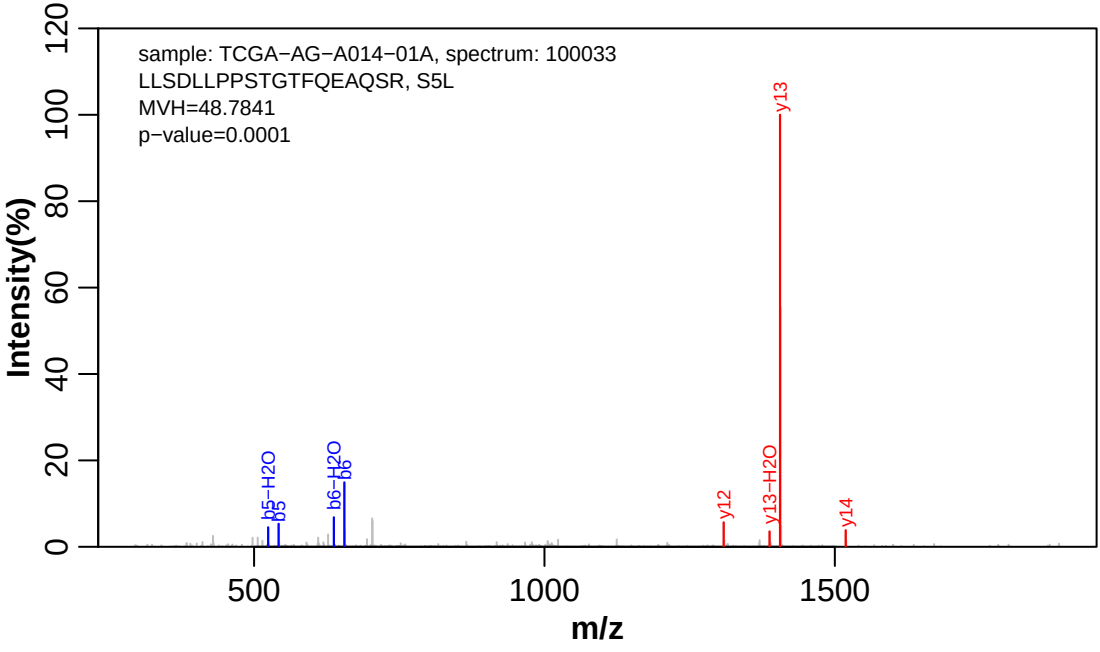

sample: TCGA−AG−A014−01A, spectrum: 26330
LFEEDPAVGALVLTGGDK, T1I
MVH=83.4429
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10
y13
b8
y6
b5
y7
b5−H2O
b7−NH3
b7
b9−H2O
b9
b10
b11
y12
y13−H2O
b12
y14
b13
y15
b14
y16
y5
b4
y4
b3

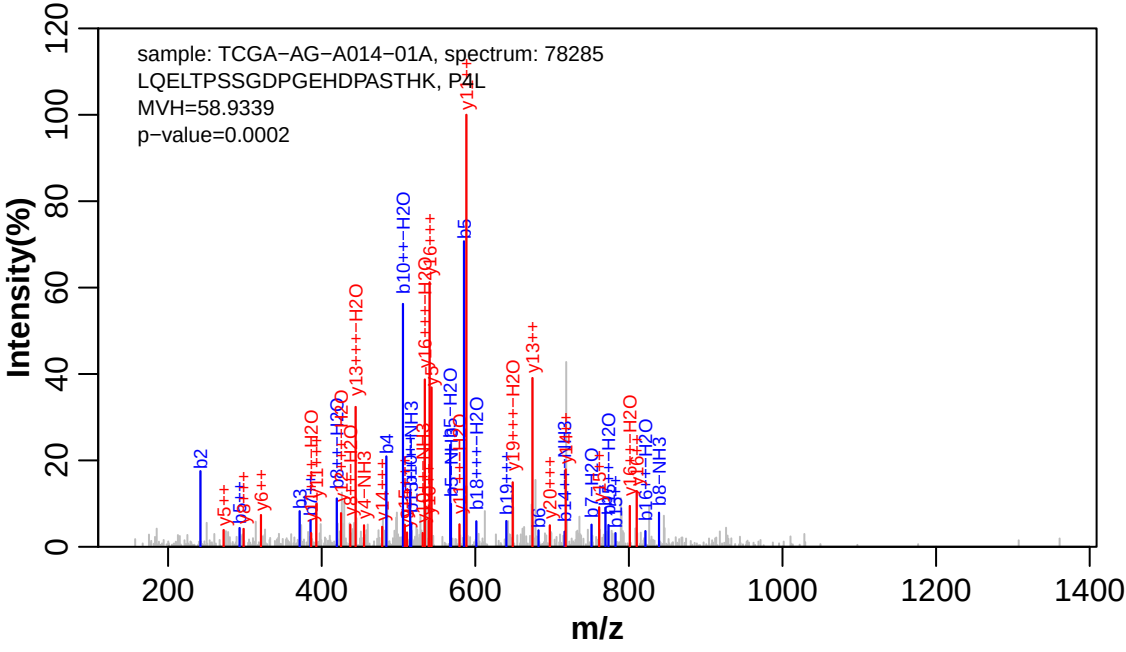

sample: TCGA−AG−A014−01A, spectrum: 23693
LGLHSTLLDEK, A6T
MVH=53.7739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b9++
y10++
y4
y3
y2−H2O
b9++−H2O
y4−H2O
b6++−H2O
b7−H2O
b2
y1
b6
y5
b7

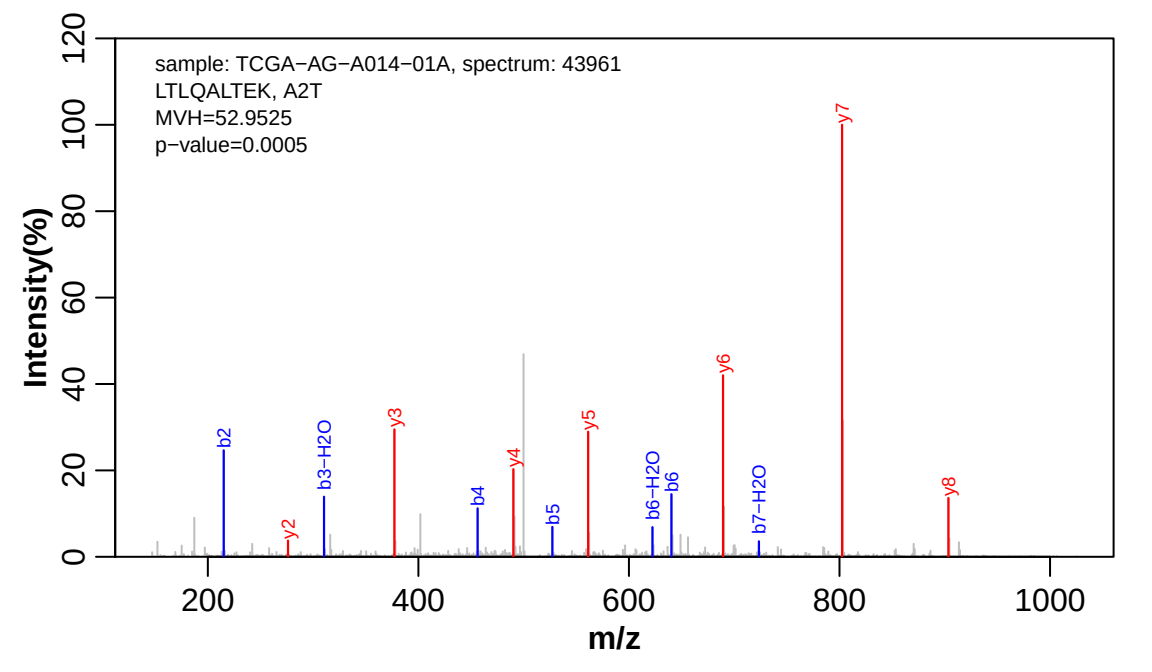

sample: TCGA−AG−A014−01A, spectrum: 73466
LGRPGLGGSSGLAGAWLK, K3R
MVH=48.6330
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y5
y5−NH3
b12++
y8
b17++
b15++
b11
y9
b10
y7−NH3
y3++−H2O
y2
y5++−H2O
b3
y7++
b9++
b11++
b5
y10++
b7
y15++
b8
b16++

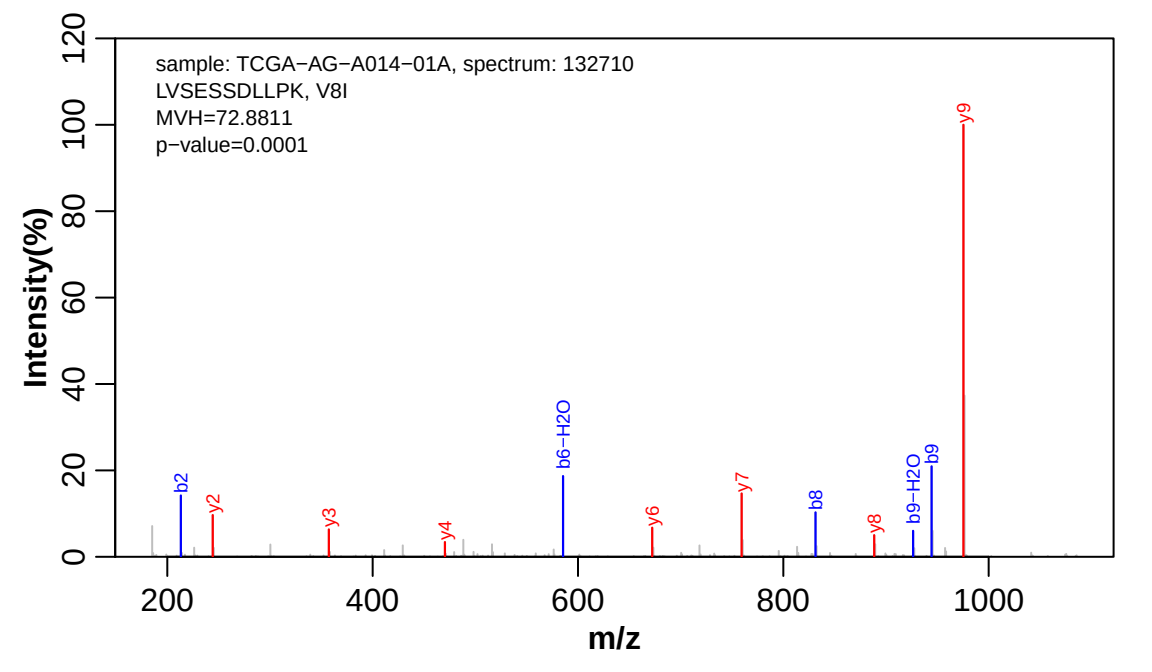

sample: TCGA−AG−A014−01A, spectrum: 10789
LLHGQSSLK, H5Q
MVH=51.0463
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y8++
y7
y8++−H2O
b6++−NH3
y6++−H2O
y5++−H2O
y4++−H2O
y4++−NH3
y1
b2
y2
b5++
y5++
b6++
b7++−H2O
b3++−NH3
b3++
b3
y7++
b8++−H2O
b8++−NH3
b6−NH3
b6
b7−H2O
b7

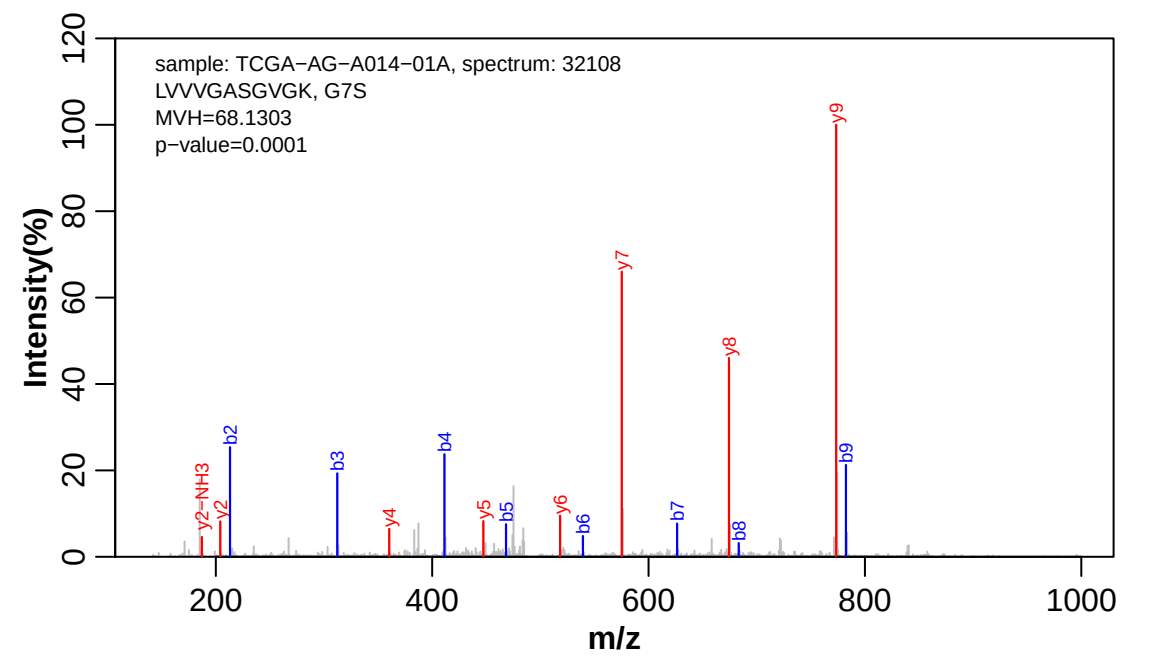

sample: TCGA−AG−A014−01A, spectrum: 18260
LLNLLADLVER, R4L
MVH=61.2124
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y6
y7
y9
b5
y2
b3
y3
b4
y4
b5−NH3
b6−NH3
b7−NH3
b7
b8−NH3
b8
y8
b9−NH3
b9
b10
b2
b4−NH3

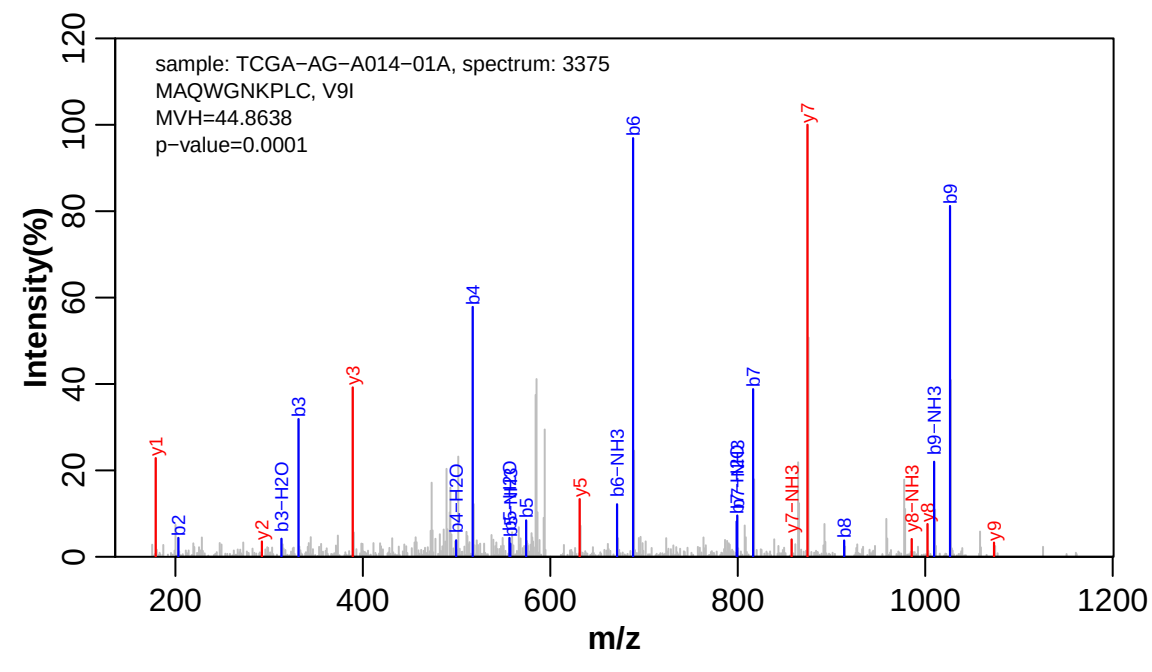

sample: TCGA−AG−A014−01A, spectrum: 100033
LLSDLLPPSTGTFQEAQSR, S5L
MVH=48.7841
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
b5
b6−H2O
b6
y12
y13−H2O
y13
y14

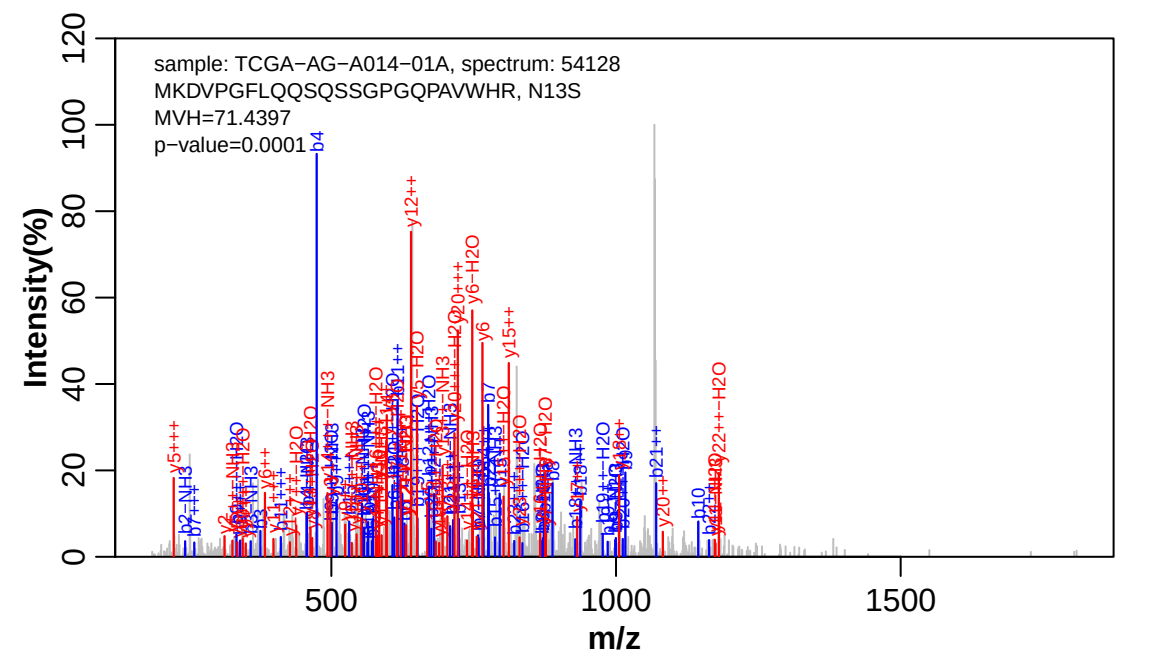

sample: TCGA−AG−A014−01A, spectrum: 78285
LQELTPSSGDPGEHDPASTHK, P4L
MVH=58.9339
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y5++
b3++
y6++
b3
y7++
y11++−H2O
b8++−H2O
y8++−H2O
y13+++−H2O
y4−NH3
y14+++
b4
b10++−H2O
y16+++−H2O
y5
b5
y13++
y15++−H2O
b18+++−H2O
b19+
y19+++−H2O
y13++
b6
y20+++
b14+++−NH3
b7++−H2O
b15++−H2O
y16++−H2O
b16++−H2O
b8−NH3

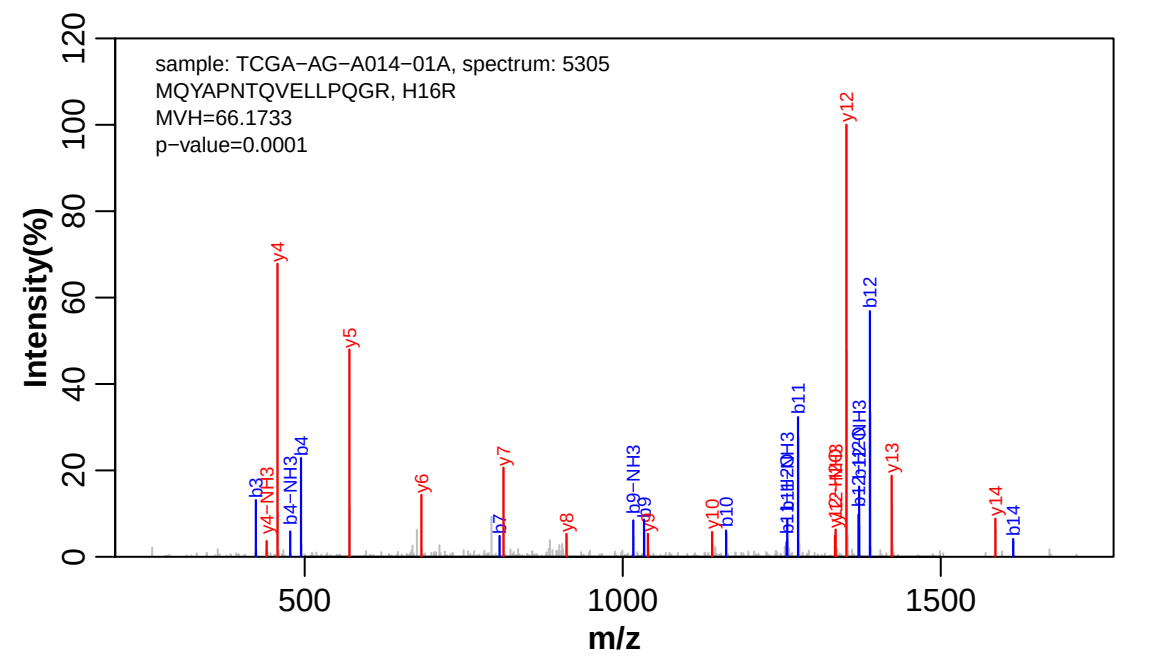

sample: TCGA−AG−A014−01A, spectrum: 43961
LTLQALTEK, A2T
MVH=52.9525
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
y8

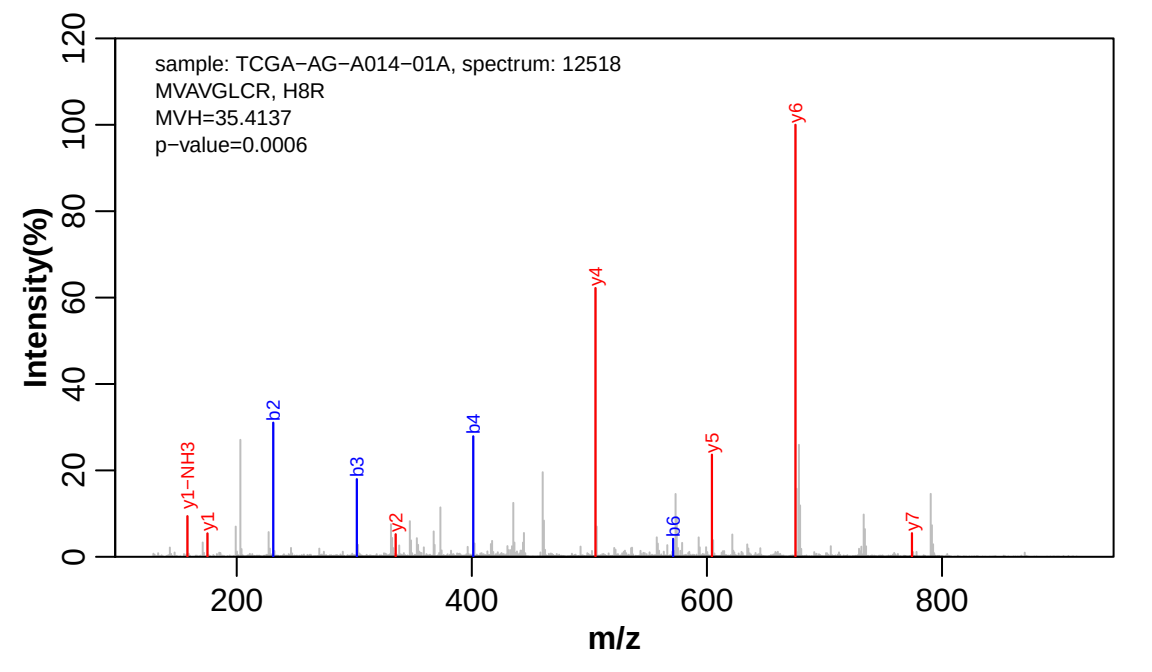

sample: TCGA−AG−A014−01A, spectrum: 132710
LVSESSDLLPK, V8I
MVH=72.8811
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
y3
y4
b6−H2O
y6
y7
b8
y8
b9−H2O
b9
y9

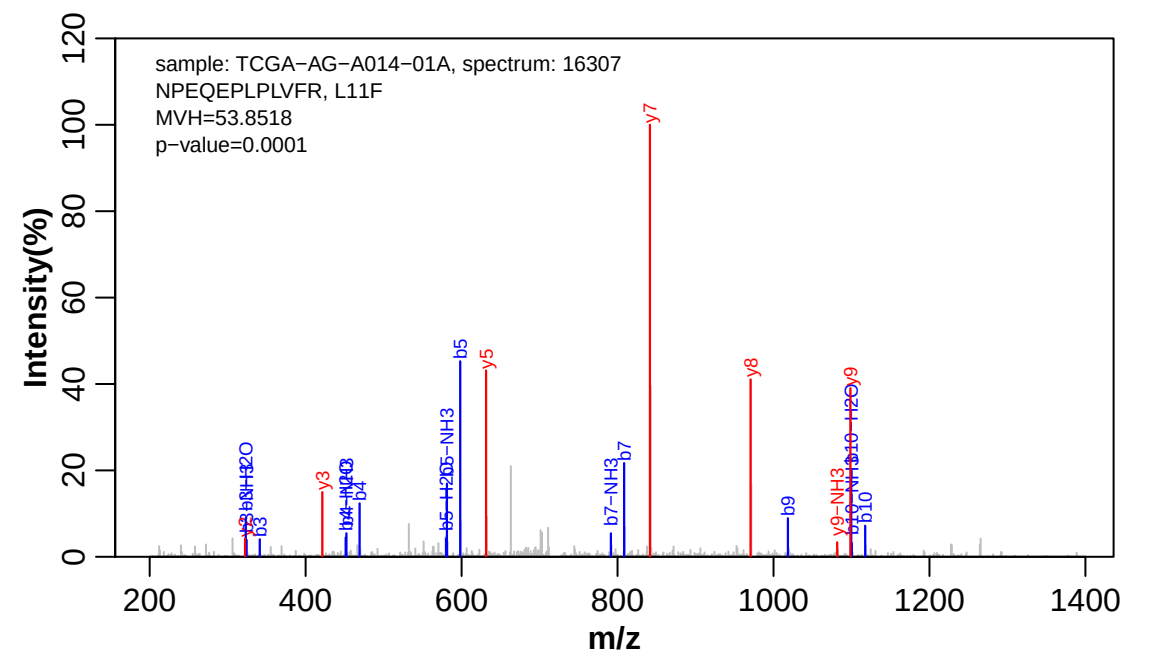

sample: TCGA−AG−A014−01A, spectrum: 32108
LVVVGASGVGK, G7S
MVH=68.1303
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y9
y7
y8
b2
b3
b4
b9
y2−NH3
y2
y4
y5
b5
y6
b6
b7
b8

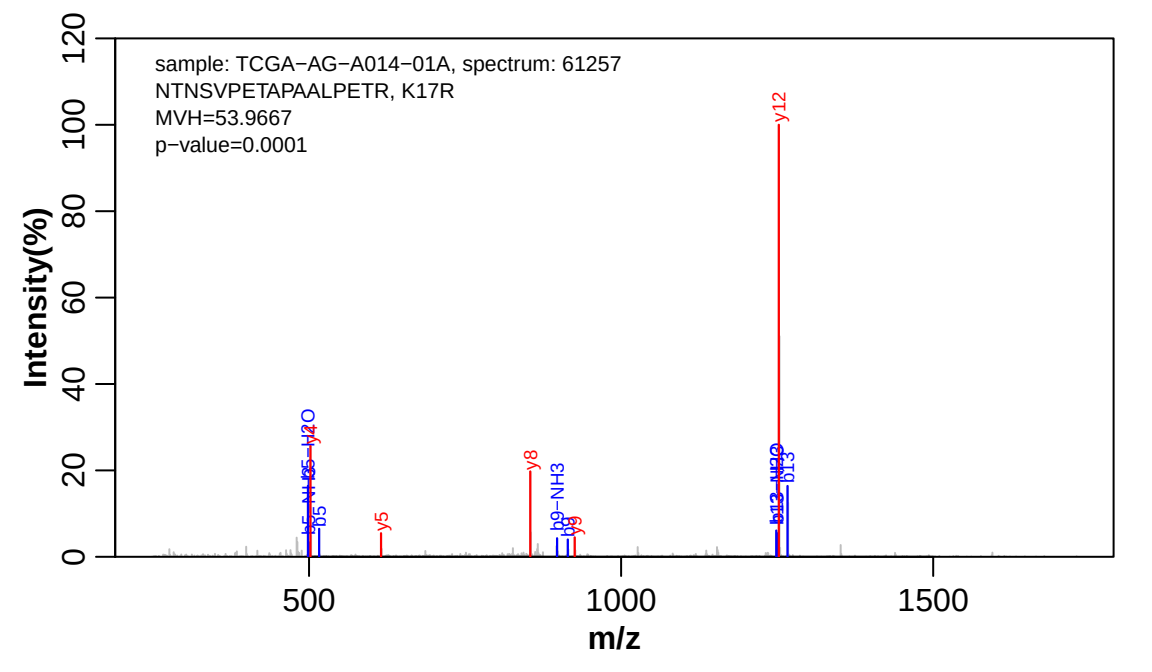

sample: TCGA−AG−A014−01A, spectrum: 3375
MAQWGNKPLC, V9I
MVH=44.8638
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
b5
y5
b6−NH3
b6
b7
y7−NH3
y7
b8
y8−NH3
y8
b9−NH3
b9
y9

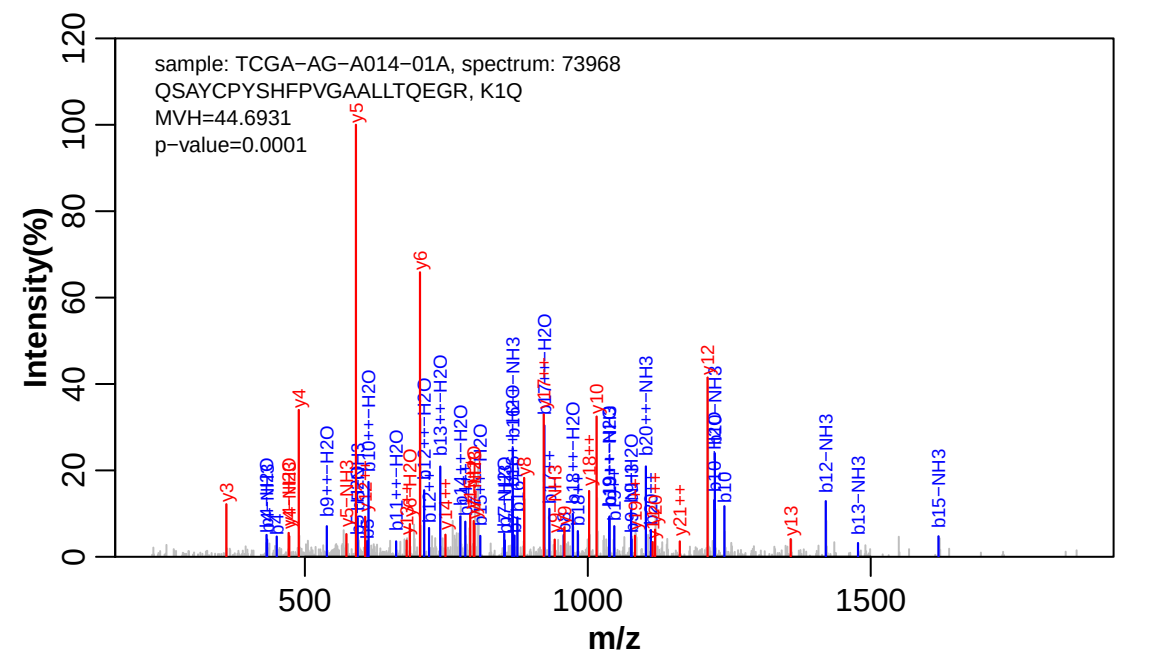

sample: TCGA−AG−A014−01A, spectrum: 54128
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=71.4397
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y12++
y6−H2O
y6
y15++
y5++
b2−NH3
y20++
b21++
y22++−H2O
b10

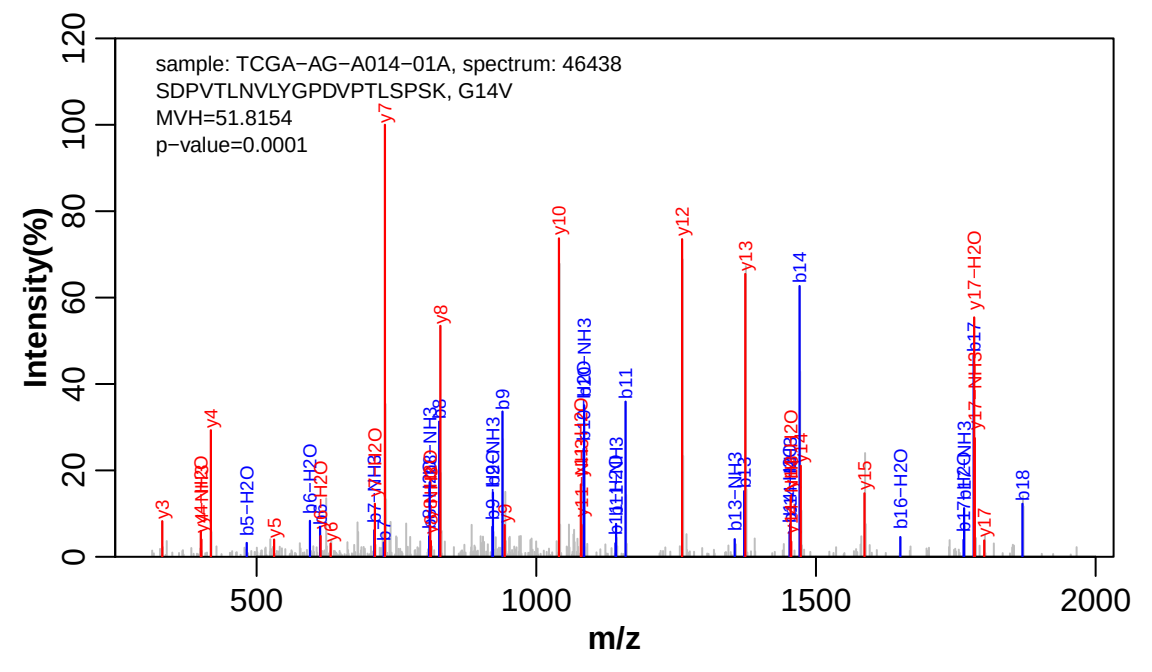

sample: TCGA−AG−A014−01A, spectrum: 5305
MQYAPNTQVELLPQGR, H16R
MVH=66.1733
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y9
y10
y12
y13
y14
b3
b4
b7
b9
b10
b11
b12
b14
y4−NH3
b4−NH3
b9−NH3
b11−NH3
y12−NH3
b12−NH3

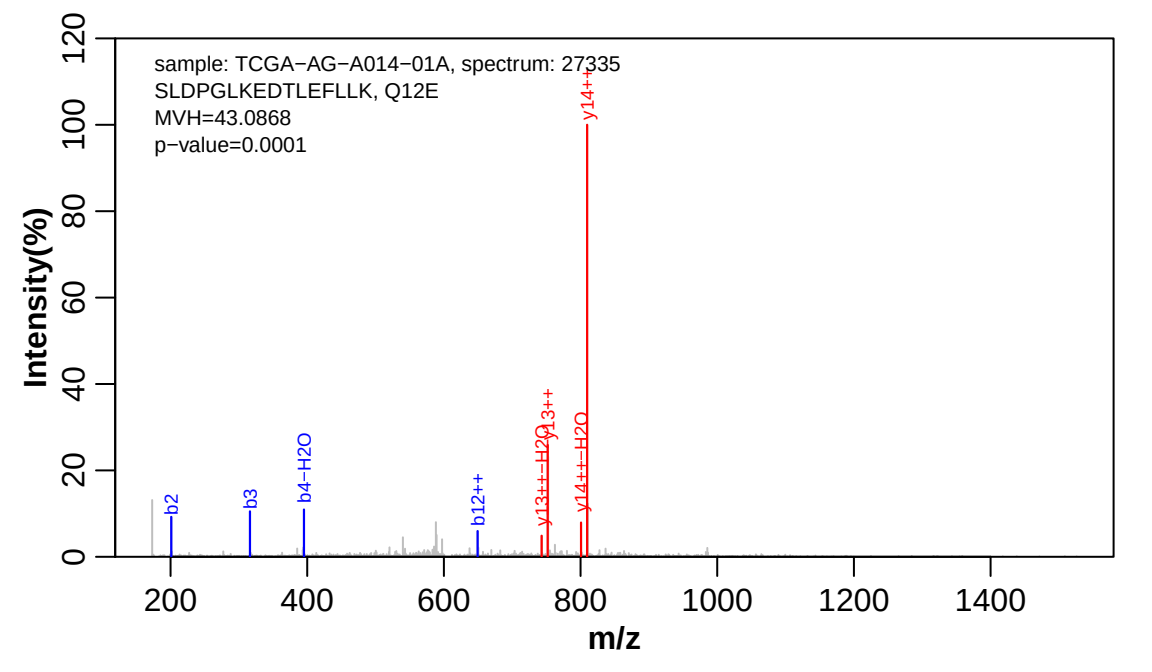

sample: TCGA−AG−A014−01A, spectrum: 12518
MVAVGLCR, H8R
MVH=35.4137
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y2
b4
y4
b6
y5
y6
y7

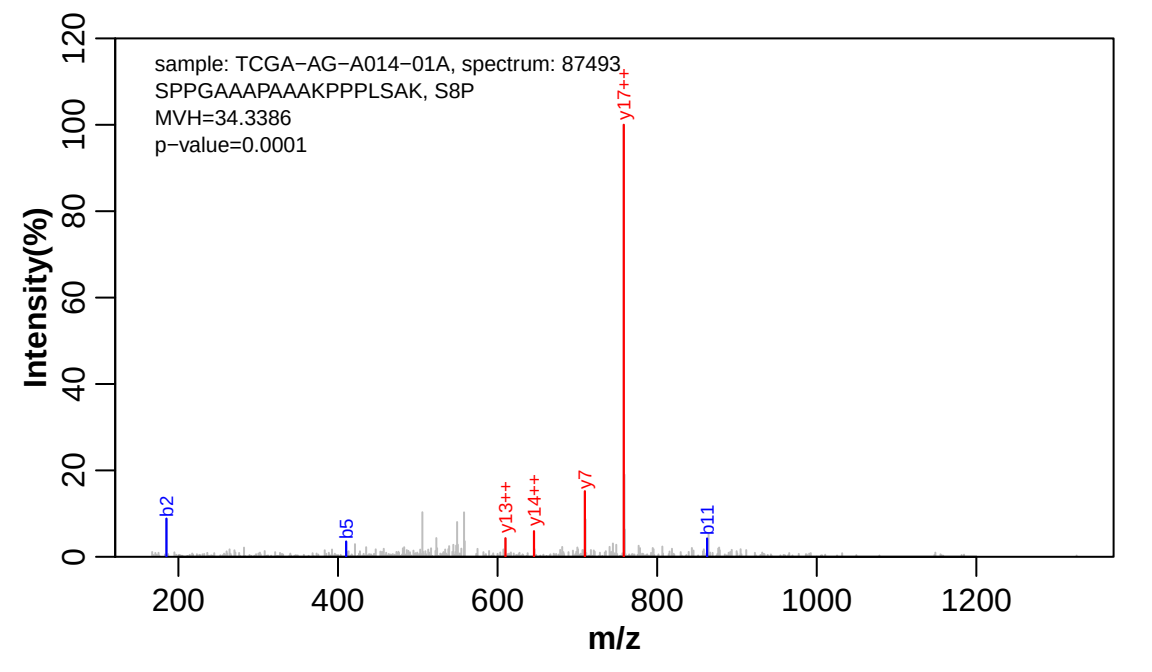

sample: TCGA−AG−A014−01A, spectrum: 16307
NPEQEPLPLVFR, L11F
MVH=53.8518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y8
y5
b5
y3
b7
b7−NH3
b9
b10
y9
y9−NH3
b5−NH3
b5−H2O
b4
b3

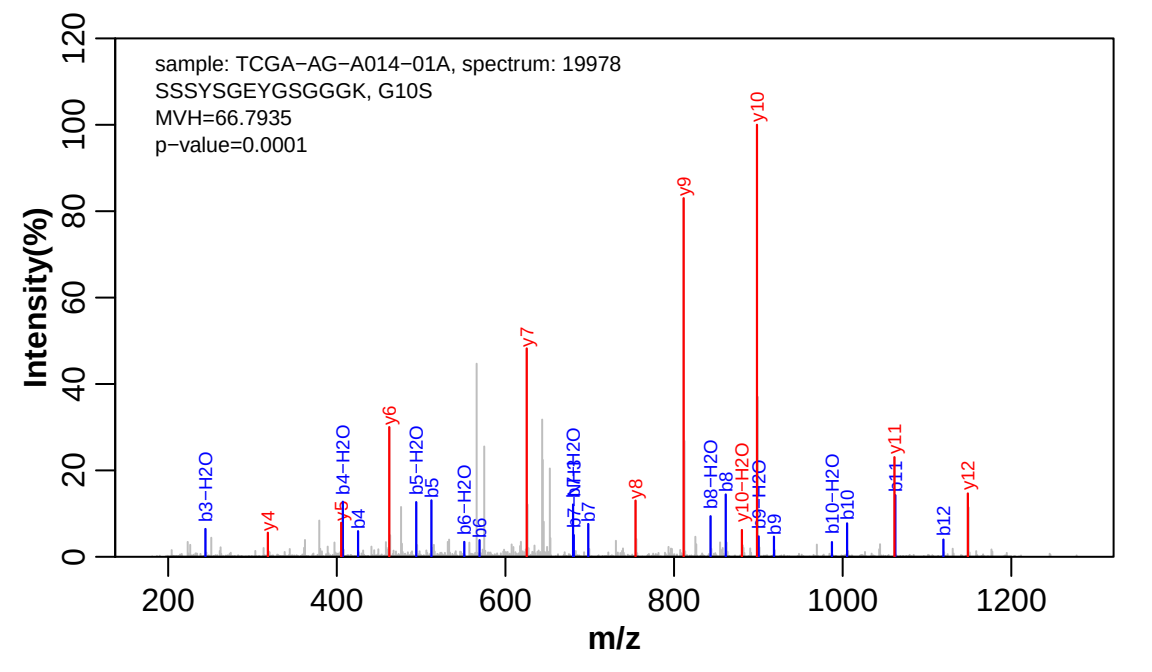

sample: TCGA−AG−A014−01A, spectrum: 61257
NTNSVPETAPAALPETR, K17R
MVH=53.9667
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y4
b5−H2O
b5−NH3
b5
b9−NH3
b9
y9
b13−H2O
b13−NH3
b13

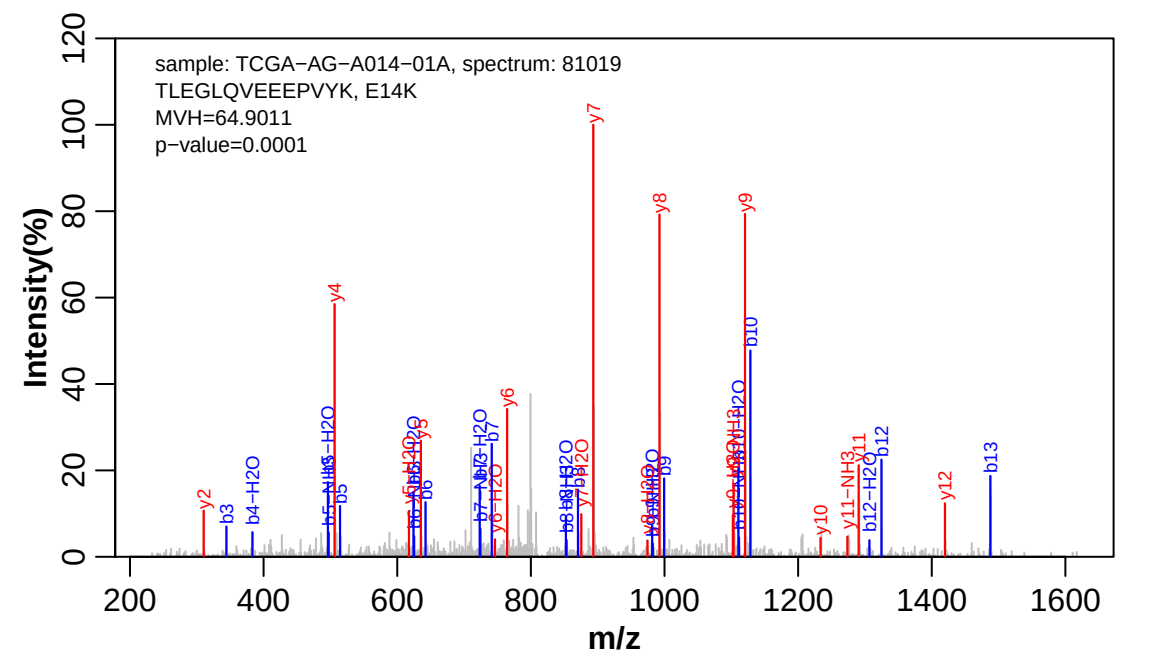

sample: TCGA−AG−A014−01A, spectrum: 73968
QSAYCPYSHFPVGAALLTQEGR, K1Q
MVH=44.6931
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y5
y6
y4
y3
y10
y12
y13
b9++−H2O
b10++−H2O
b11++−H2O
b12++−H2O
b13++−H2O
b14++−H2O
b17++−H2O
b18++−H2O
b20++−NH3
b12−NH3
b13−NH3
b15−NH3
y5−NH3
y14++
y18++
y21++

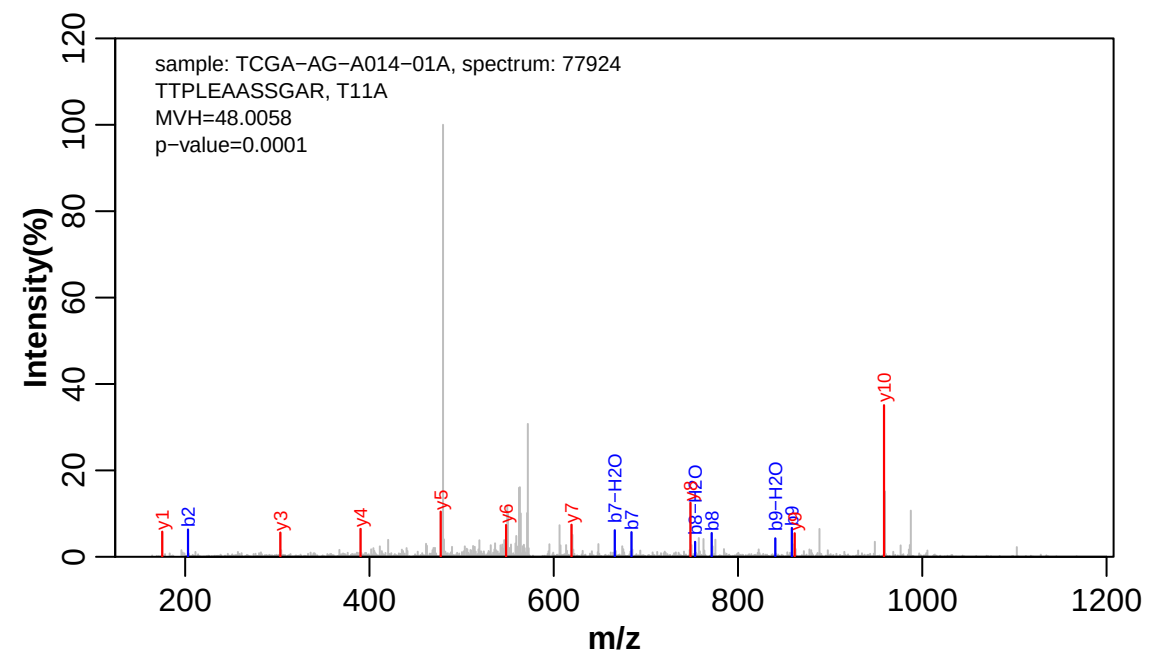

sample: TCGA−AG−A014−01A, spectrum: 46438
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=51.8154
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b5−H2O
y5
b6−H2O
y6
y7
b8
y8
b9
y9
y10
b11
y12
y13
b14
y14
y15
b16−H2O
y17−H2O
b18

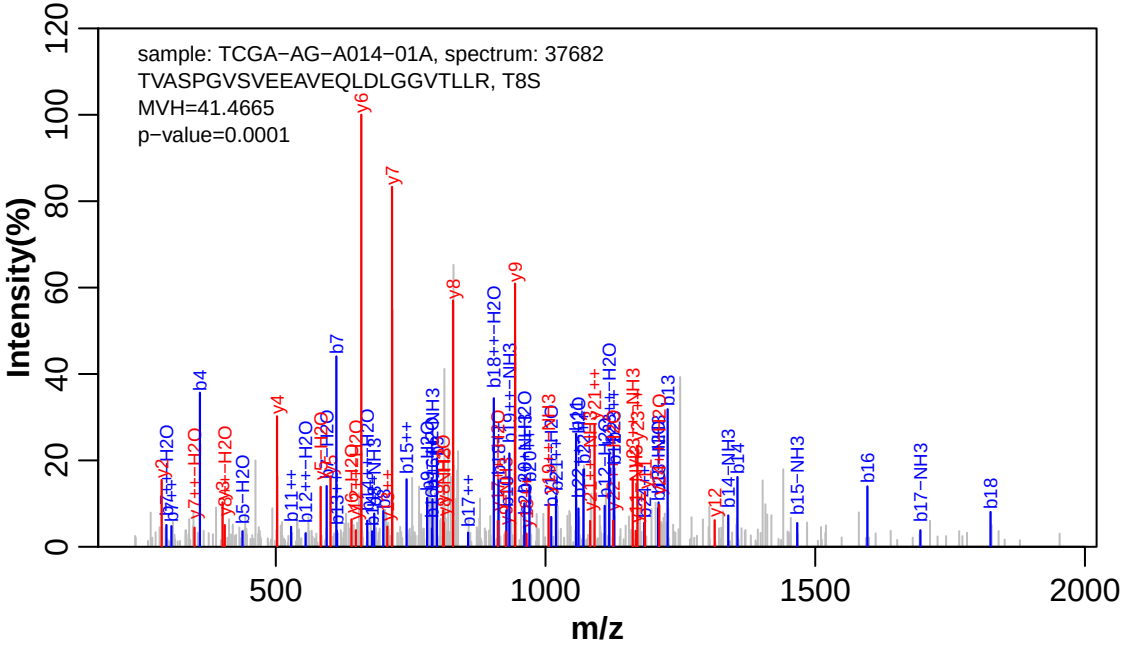

sample: TCGA−AG−A014−01A, spectrum: 27335
SLDPGLKEDTLEFLLK, Q12E
MVH=43.0868
p−value=0.0001
Intensity(%)
m/z
b2
b3
b4−H2O
b12++
y13++−H2O
y13++
y14++−H2O
y14++

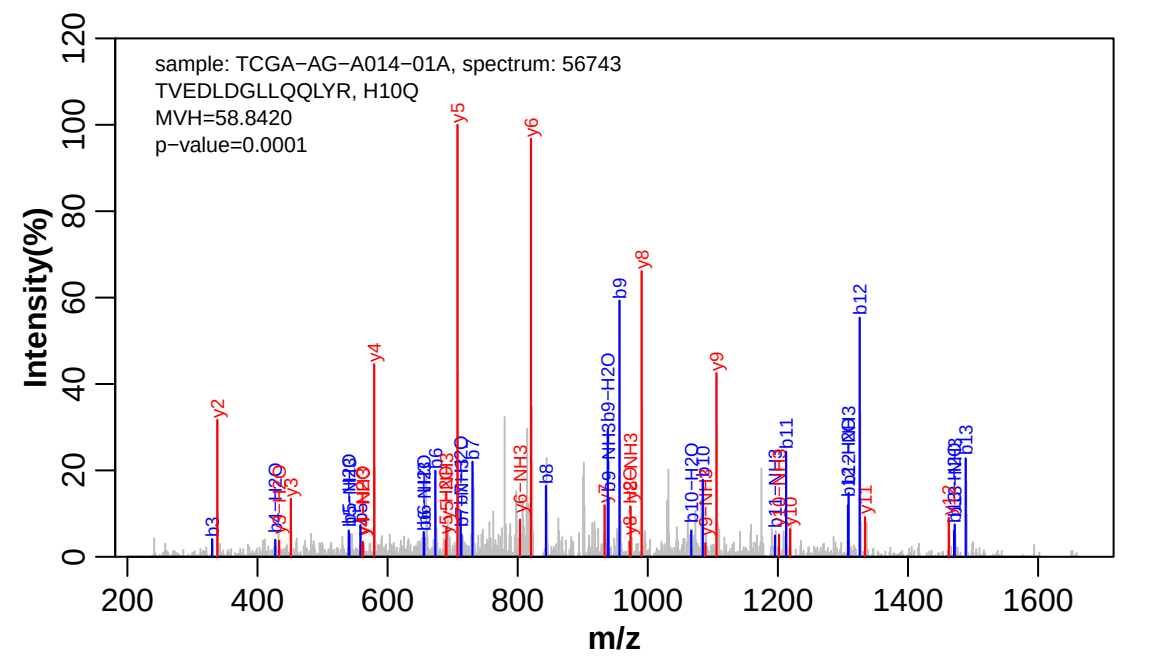

sample: TCGA−AG−A014−01A, spectrum: 87493
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.3386
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b5
y13++
y14++
y7
y17++
b11

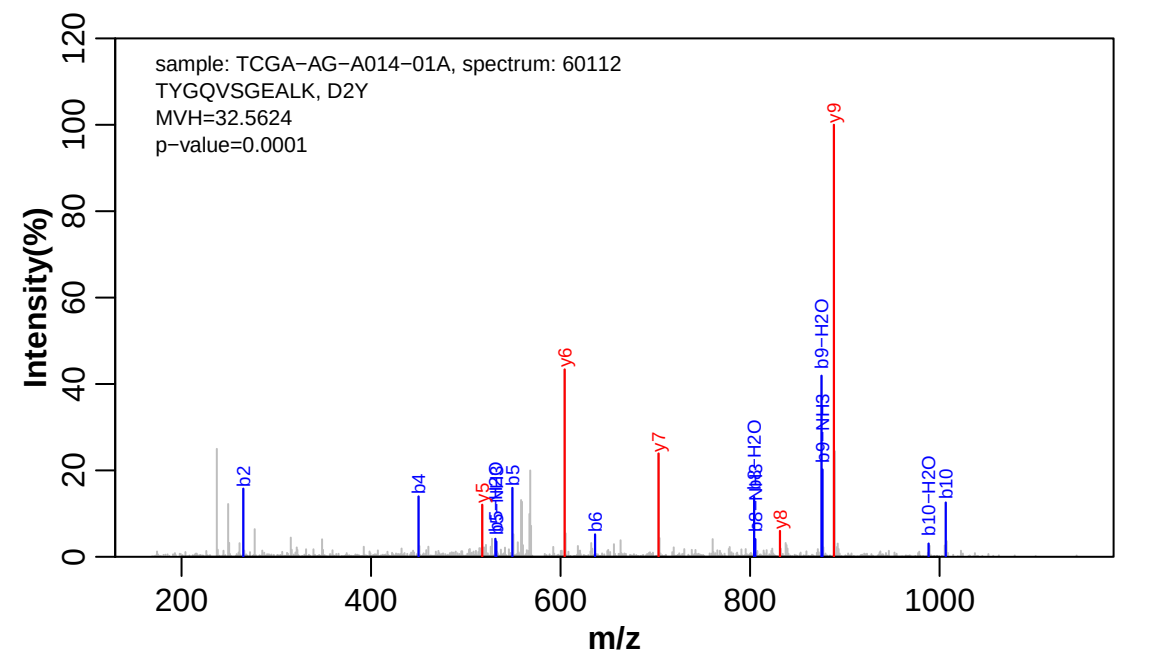

sample: TCGA−AG−A014−01A, spectrum: 19978
SSSYSGEYGSGGGK, G10S
MVH=66.7935
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y8
y9
b8−H2O
b8
y10
y10−H2O
b9−H2O
b9
b10−H2O
b10
b11
y11
b12
y12

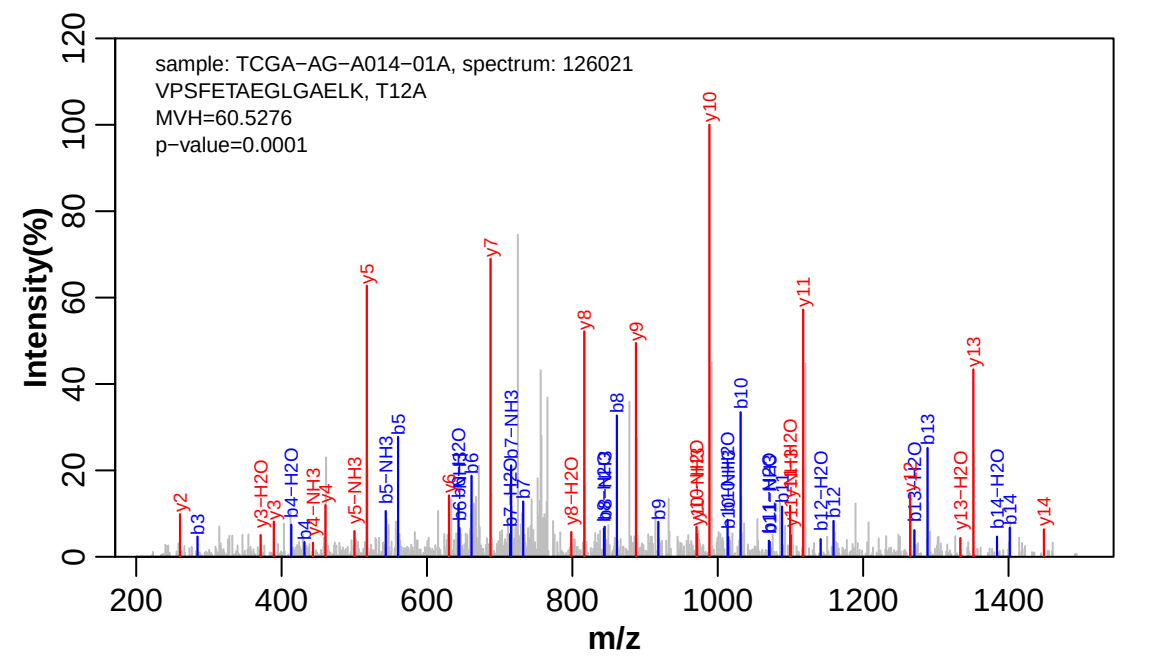

sample: TCGA−AG−A014−01A, spectrum: 81019
TLEGLQVEEEPVYK, E14K
MVH=64.9011
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y9
y4
y6
y5
b10
b12
b13
y12
y11
y10
y2
b3
b4−H2O
b5
b6
b7
b9
y11−NH3
b12−H2O

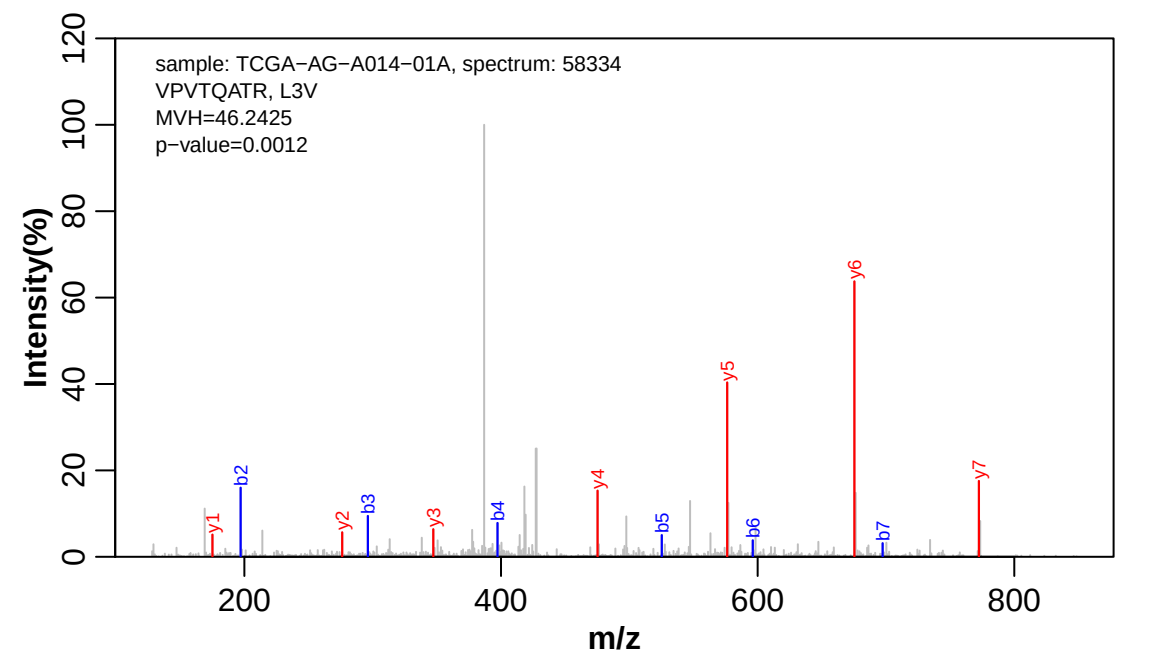

sample: TCGA−AG−A014−01A, spectrum: 77924
TTPLEAASSGAR, T11A
MVH=48.0058
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
y3
y4
y5
y6
y7
b7−H2O
b7
b8−H2O
b8
b9−H2O
b9
y10

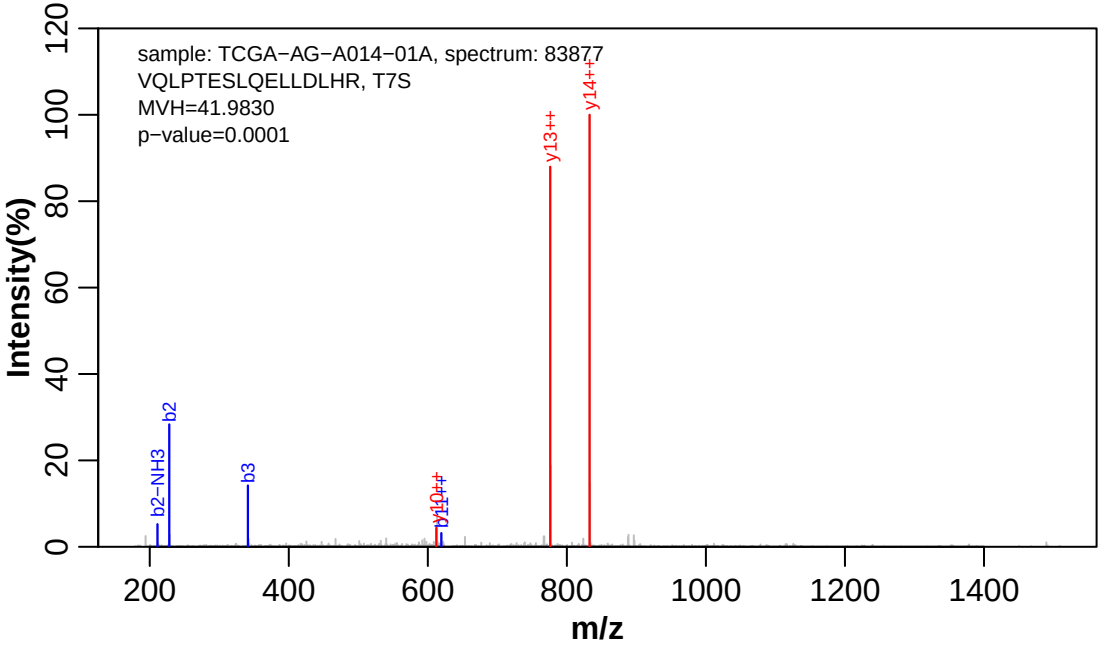

sample: TCGA−AG−A014−01A, spectrum: 37682
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=41.4665
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
y7
y8
y9
b4
b7
y4
b15++
b17++
b18++−H2O
b16
b17−NH3
b18
b15−NH3
y12
b13
b5−H2O
y2
b11++
b12++−H2O
y7++−H2O
y8−H2O
y7−H2O
y8++−H2O
y7−NH3
y8−NH3
b14−NH3
b14
b18++−NH3
b18++−H2O

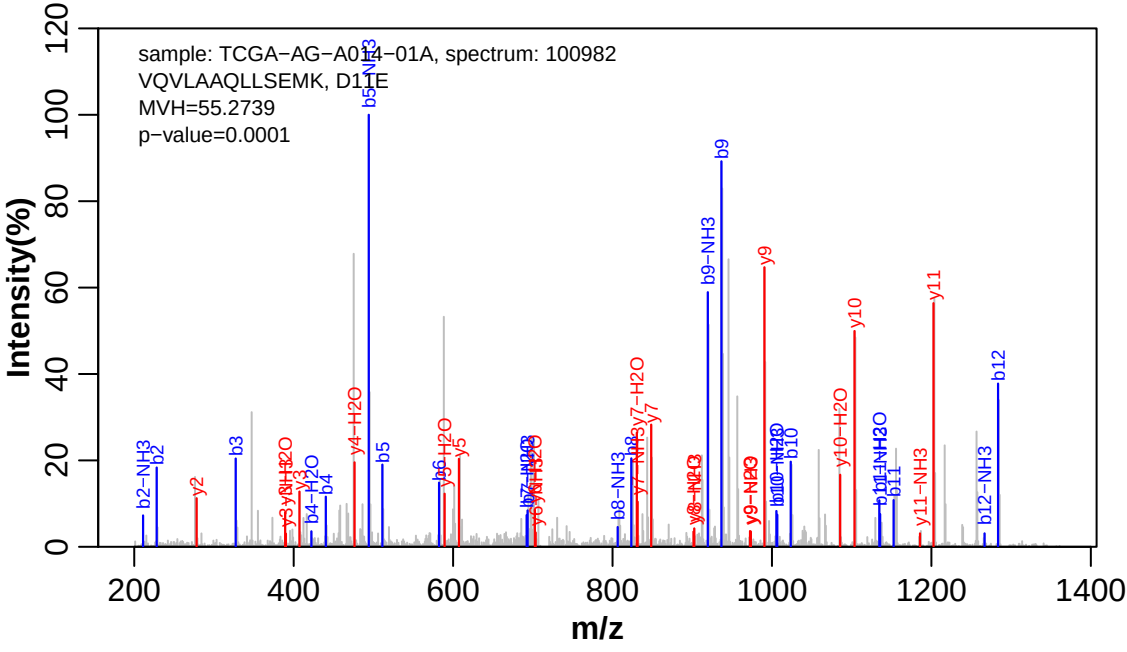

sample: TCGA−AG−A014−01A, spectrum: 56743
TVEDLDGLLQQLYR, H10Q
MVH=58.8420
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
b9
b12
y4
y2
y9
b8
y3
b3
b11
y10
y11
b13

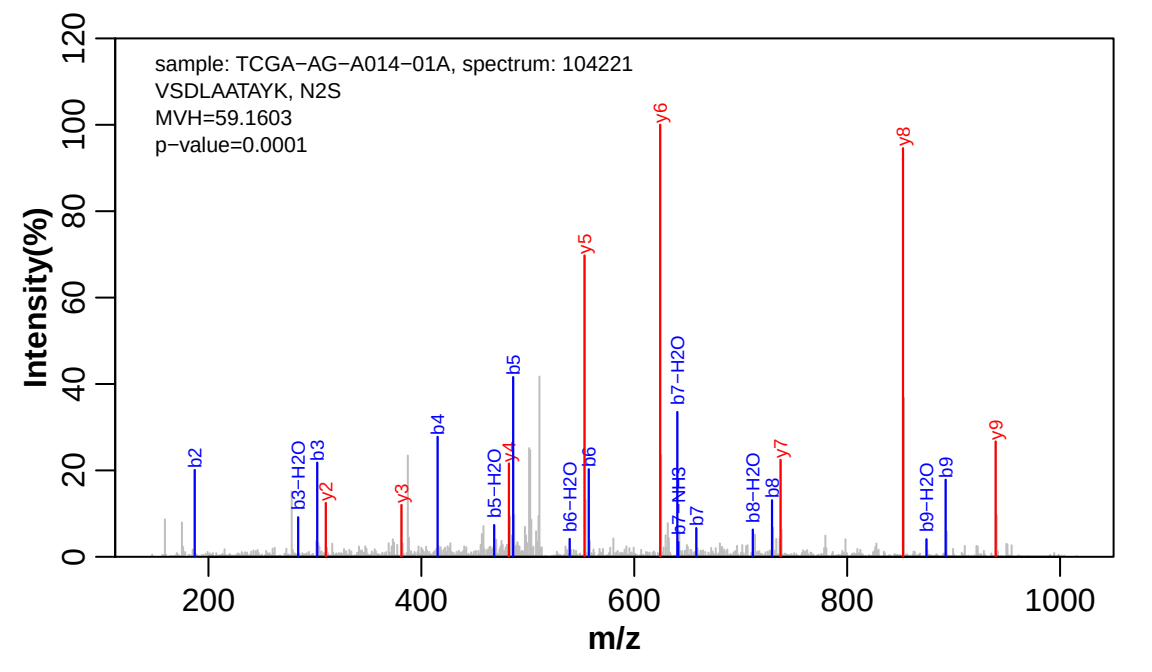

sample: TCGA−AG−A014−01A, spectrum: 60112
TYGQVSGEALK, D2Y
MVH=32.5624
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
y5
b5
y6
b6
y7
b8−H2O
y8
b9−NH3
b9−H2O
y9
b10−H2O
b10

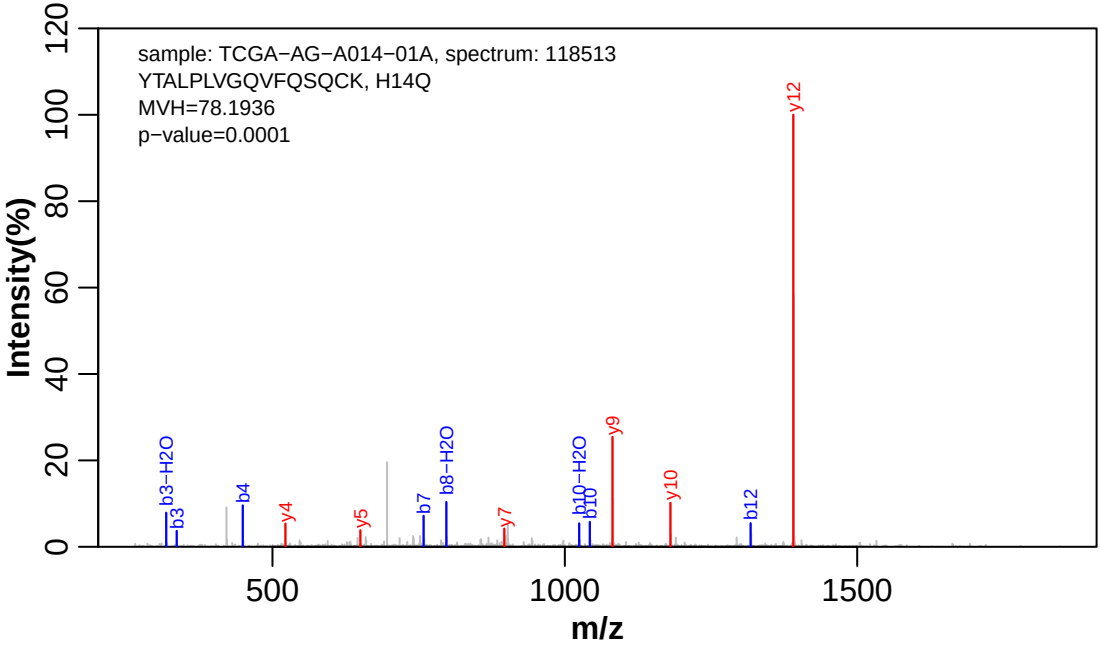

sample: TCGA−AG−A014−01A, spectrum: 126021
VPSFETAEGLGAELK, T12A
MVH=60.5276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
y3−H2O
y3
b4−H2O
b4
y4−NH3
y4
y5−NH3
y5
b5−NH3
b5
b6
y7
b7−NH3
y8
b8
b9
y9
y10
b10
y11
b12−H2O
b12
b13
y13
y13−H2O
b14−H2O
b14
y14

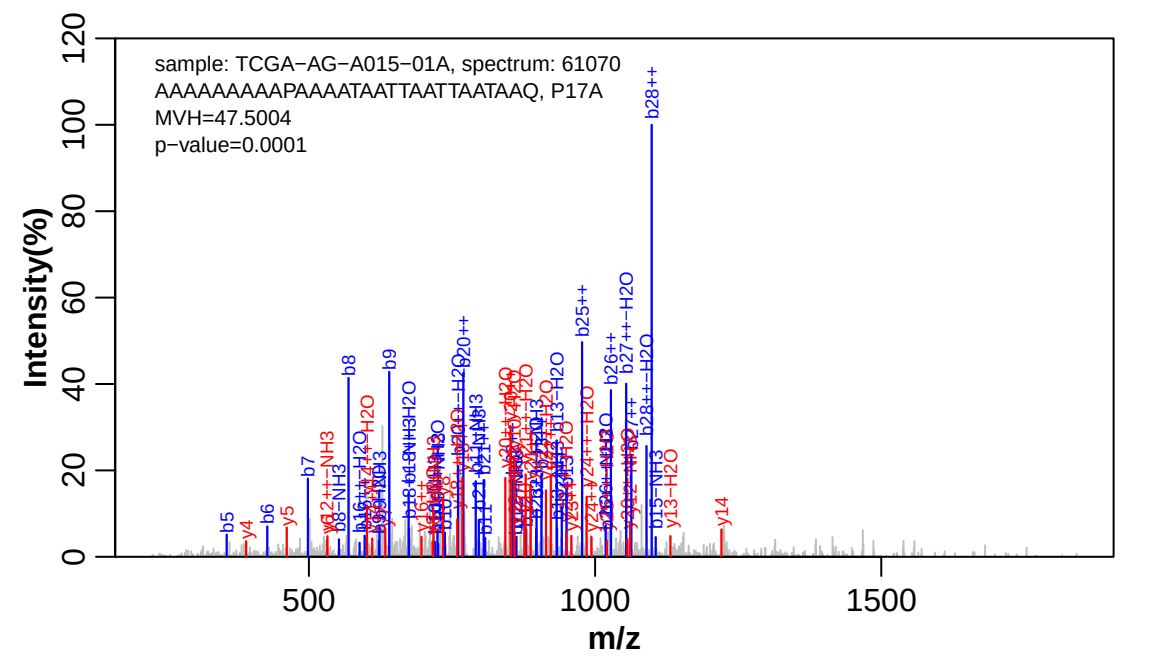

sample: TCGA−AG−A014−01A, spectrum: 58334
VPVTQATR, L3V
MVH=46.2425
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6
y6
b7
y7

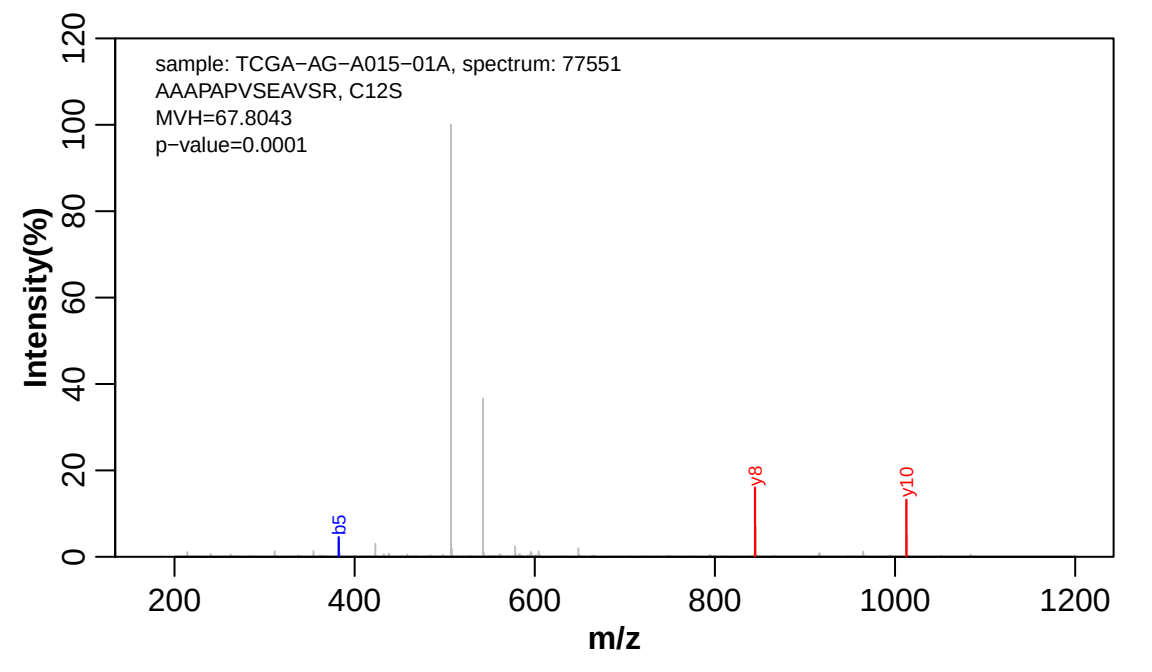

sample: TCGA−AG−A014−01A, spectrum: 83877
VQLPTESLQELLDLHR, T7S
MVH=41.9830
p−value=0.0001
y14++
y13++
b2
b2−NH3
b3
y11++
y10++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

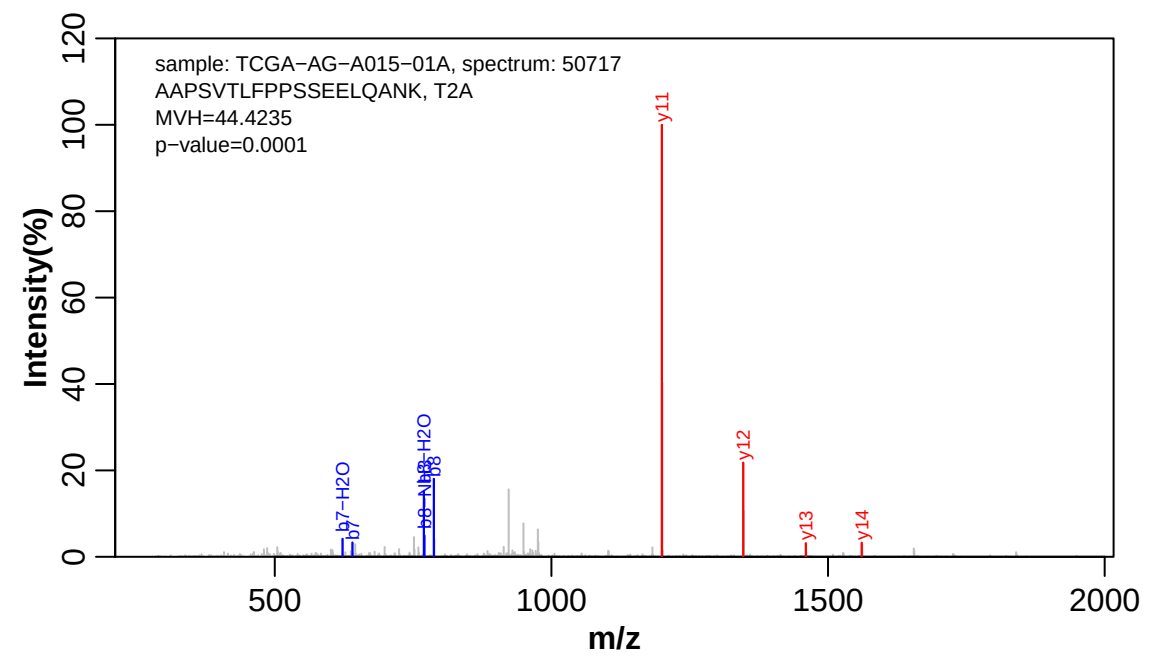

sample: TCGA−AG−A014−01A, spectrum: 100982
VQVLAAQLLSEMK, D11E
MVH=55.2739
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b5−NH3
b9
b9−NH3
y9
y10
y11
b12
b12−NH3
y11−NH3
y10−H2O
y7−H2O
y4−H2O
b5
b2−NH3
b2
y2
b3
b4
y3
b4−H2O
y5
y6−H2O
b8−NH3
y7
b10
b11

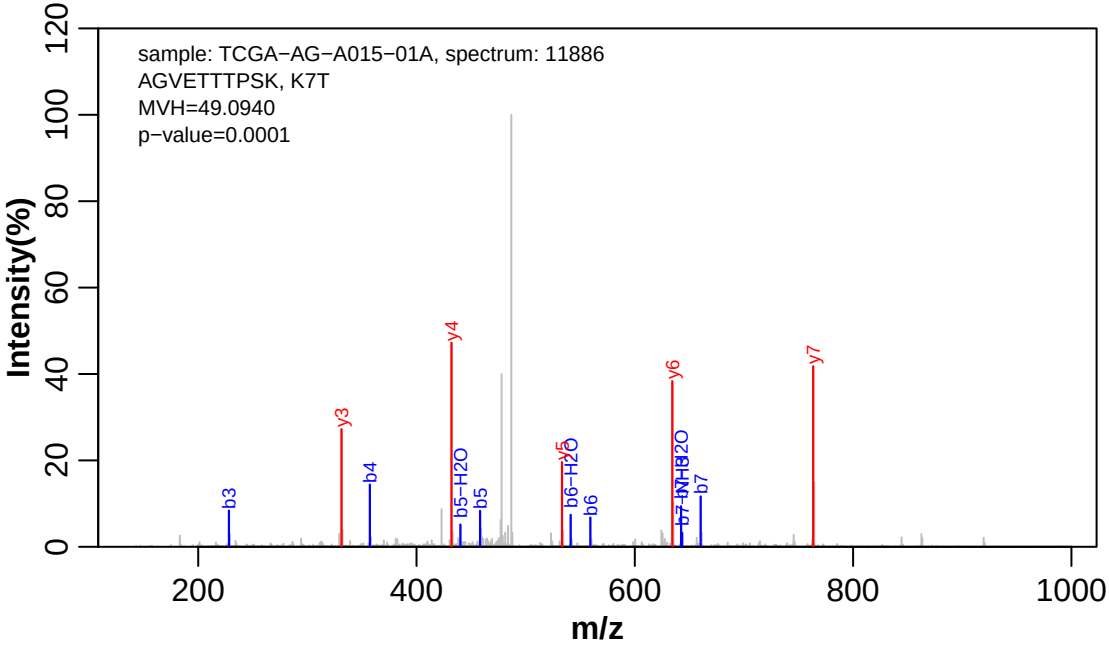

sample: TCGA−AG−A014−01A, spectrum: 104221
VSDLAATAYK, N2S
MVH=59.1603
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5
b5−H2O
y4
y5
b6−H2O
b6
b7−NH3
b7
b7−H2O
y6
b8−H2O
b8
y7
y8
b9−H2O
b9
y9

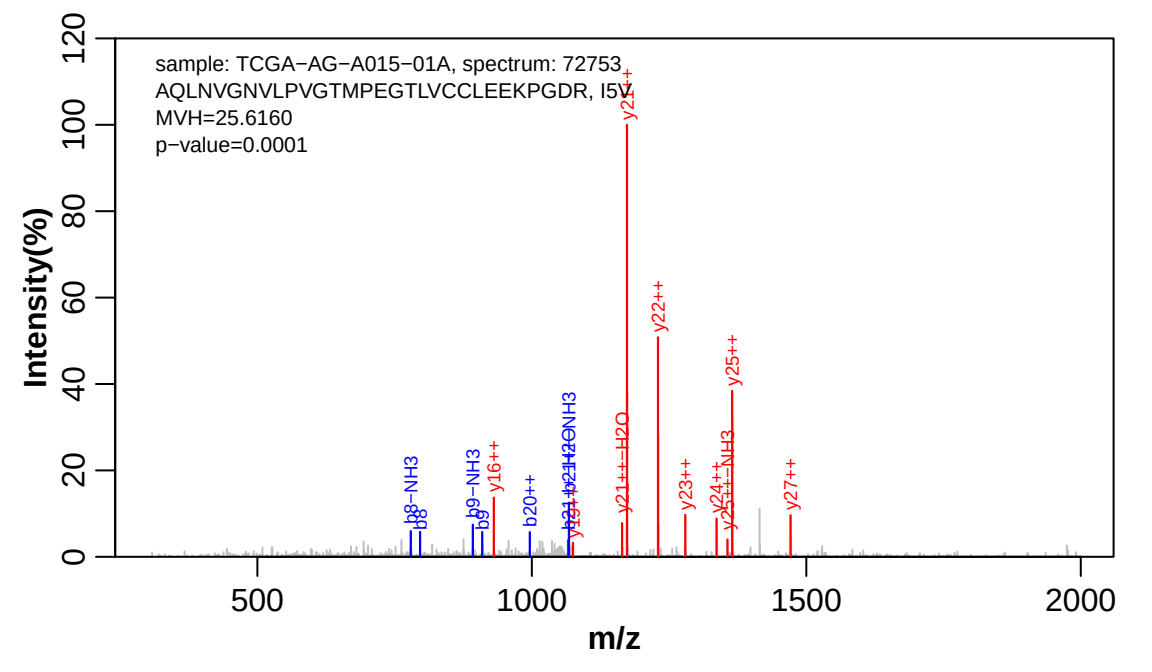

sample: TCGA−AG−A014−01A, spectrum: 118513
YTALPLVGQVFQSQCK, H14Q
MVH=78.1936
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
b3
b4
y4
y5
b7
b8−H2O
y7
b10−H2O
b10
y9
y10
b12
y12

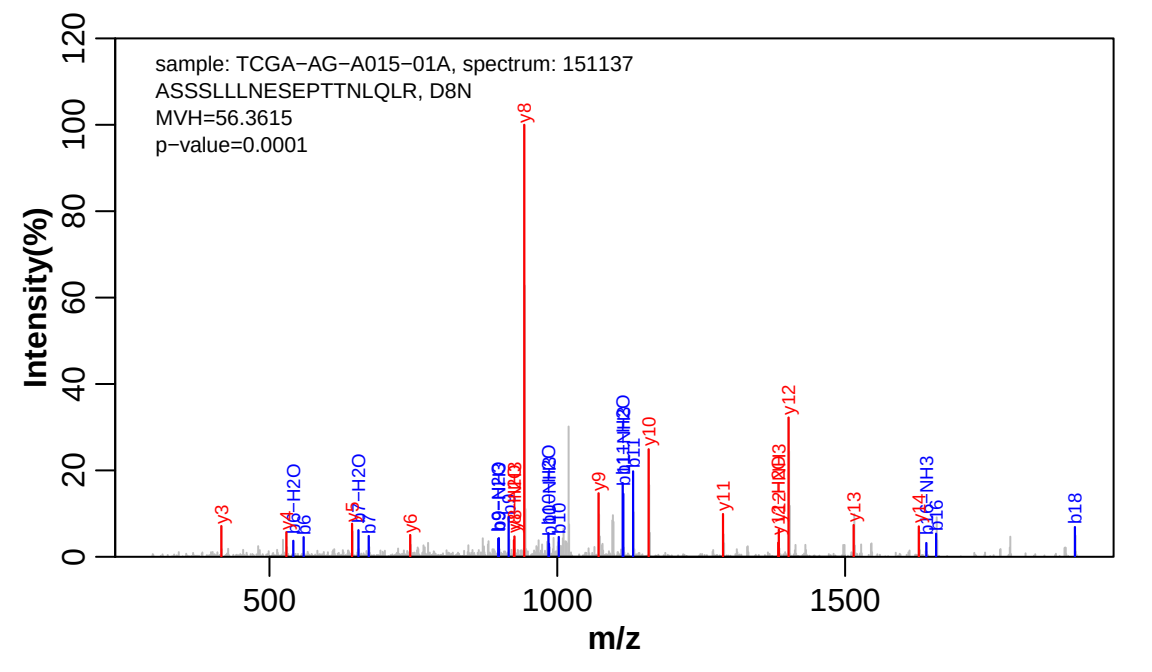

sample: TCGA−AG−A015−01A, spectrum: 61070
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=47.5004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b25++
b27++−H2O
b28++−H2O
b26++
b8
b9
b7
b5
y4
b6
y5
y14
b8−NH3
b8−H2O
b13−H2O
b15−NH3
y13−H2O

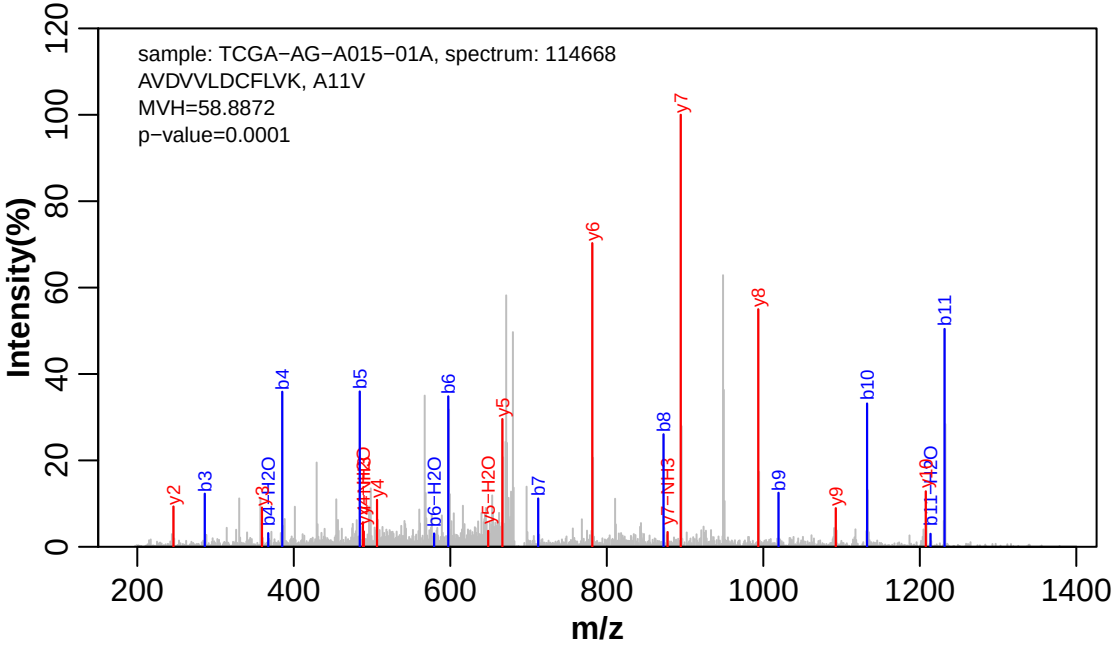

sample: TCGA−AG−A015−01A, spectrum: 77551
AAAPAPVSEAVSR, C12S
MVH=67.8043
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

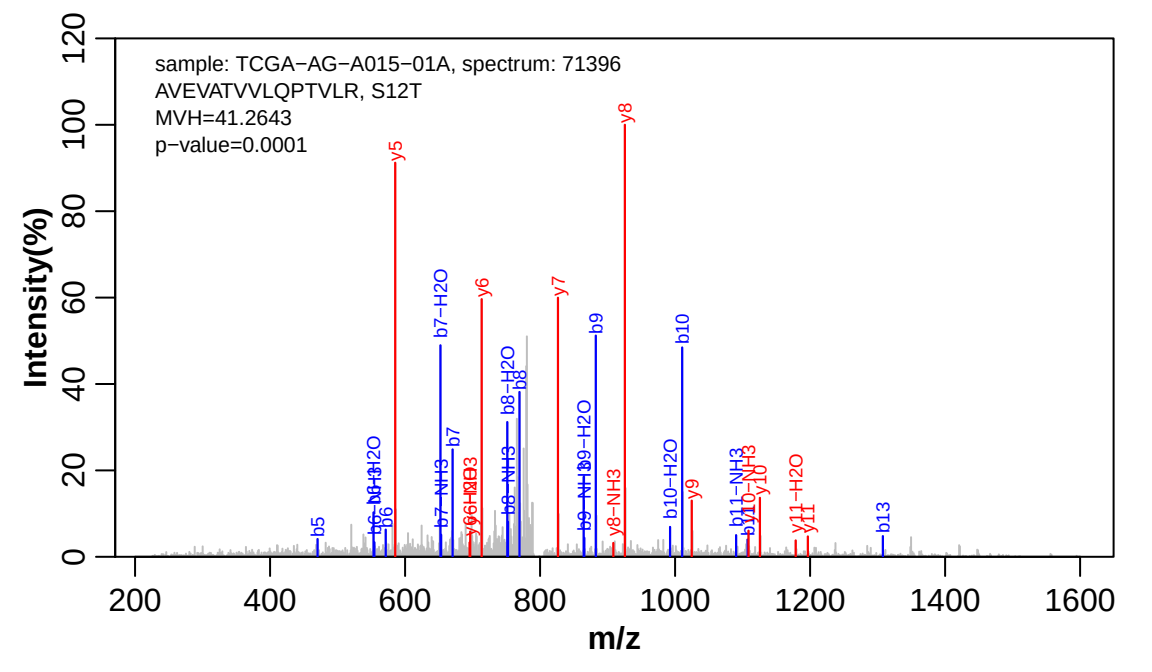

sample: TCGA−AG−A015−01A, spectrum: 50717
AAPSVTLFPPSSEELQANK, T2A
MVH=44.4235
p−value=0.0001
Intensity(%)
m/z
y11
y12
y13
y14
b7−H2O
b8
b8−H2O
0
20
40
60
80
100
120
500
1000
1500
2000

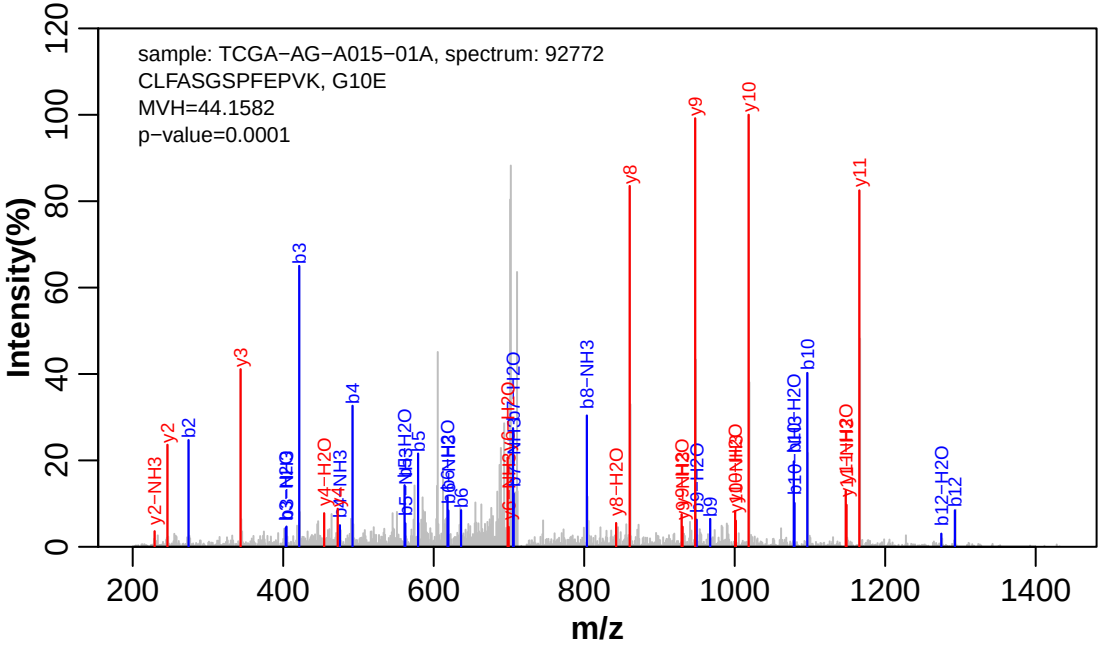

sample: TCGA−AG−A015−01A, spectrum: 11886
AGVETTTPSK, K7T
MVH=49.0940
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7

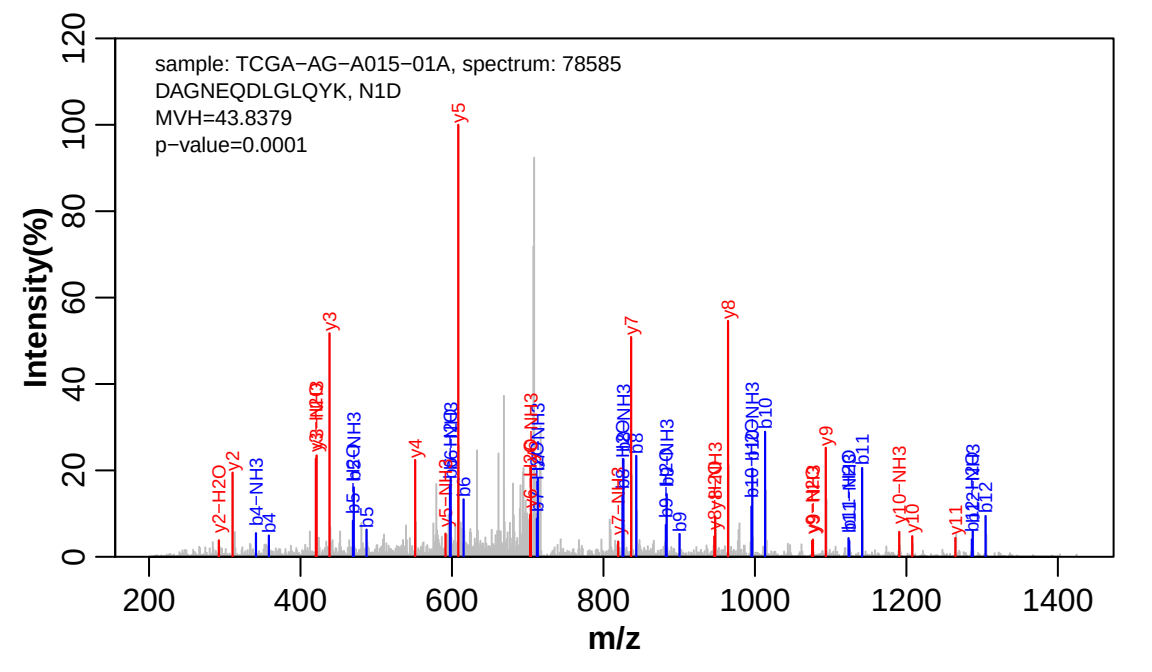

sample: TCGA−AG−A015−01A, spectrum: 72753
AQLNVGNVLPVGTMPEGTLVCCLEEKPGDR, I5V
MVH=25.6160
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b8−NH3
b8
b9−NH3
b9
y16++
b20++
y21++−H2O
y21++
y22++
y23++
y24++
y25++
y27++

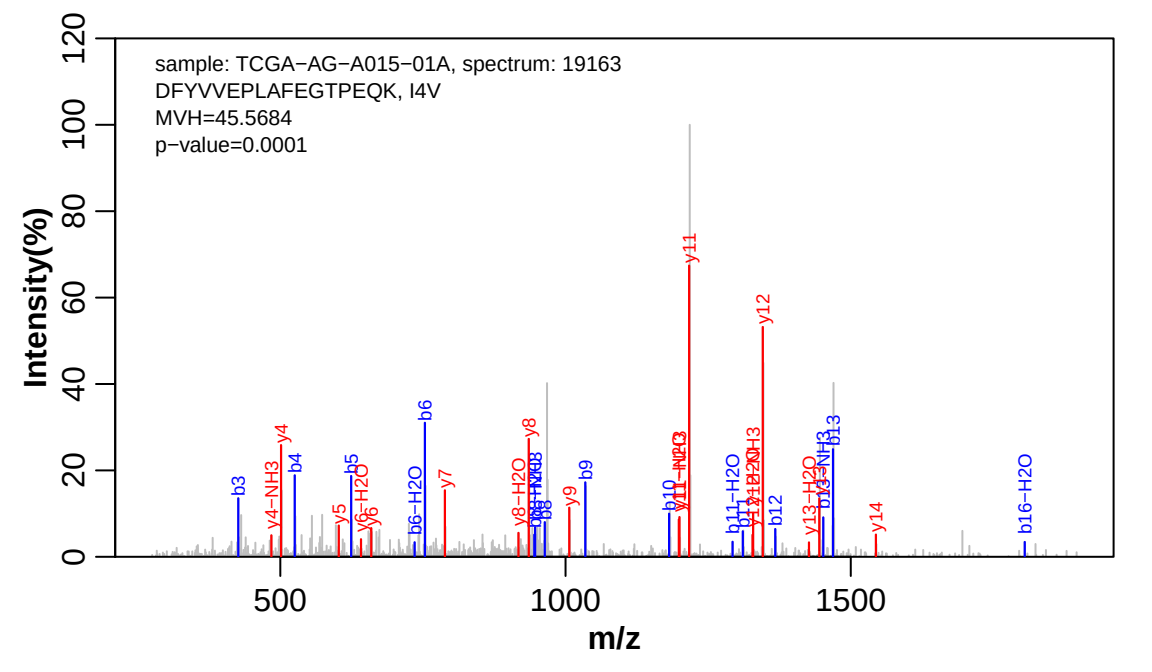

sample: TCGA−AG−A015−01A, spectrum: 151137
ASSSLLLNESEPTTNLQLR, D8N
MVH=56.3615
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y3
y4−H2O
b6
y5−H2O
b7
y6
y9
y10
y11
y12
y13
y14−NH3
b16
b18

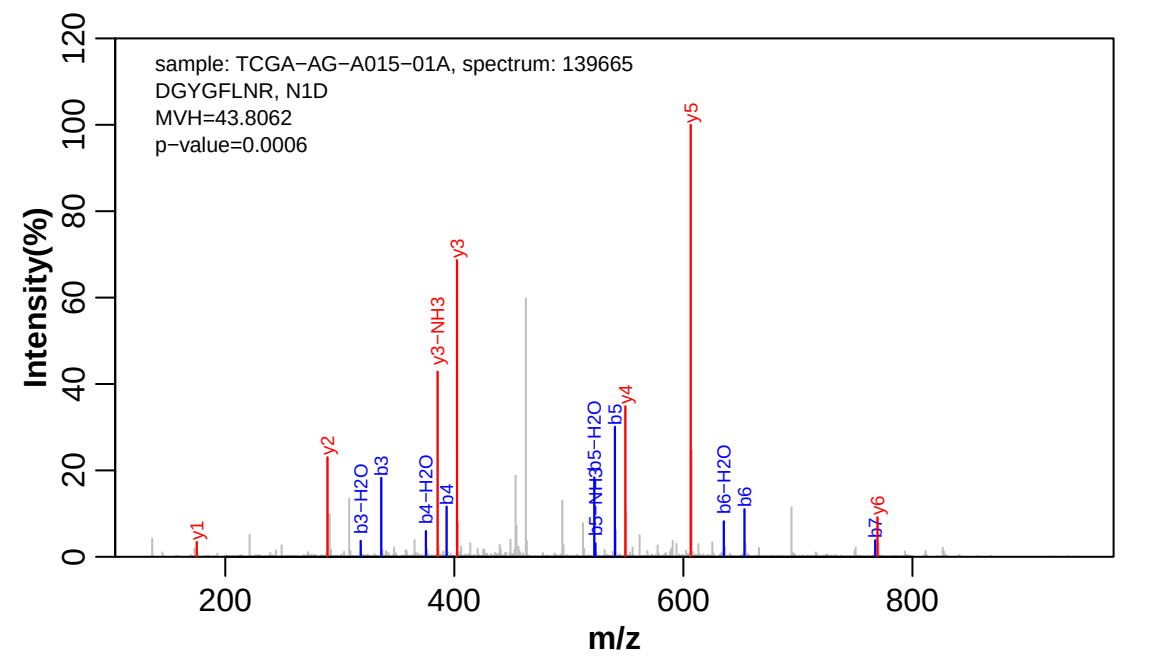

sample: TCGA−AG−A015−01A, spectrum: 114668
AVDVVLDCFLVK, A11V
MVH=58.8872
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
b3
b4
b4−H2O
y3
b5
y4
b6
b6−H2O
y5
y5−H2O
b7
y6
b8
y7−NH3
y7
y8
b9
y9
b10
b11
b11−H2O
y10

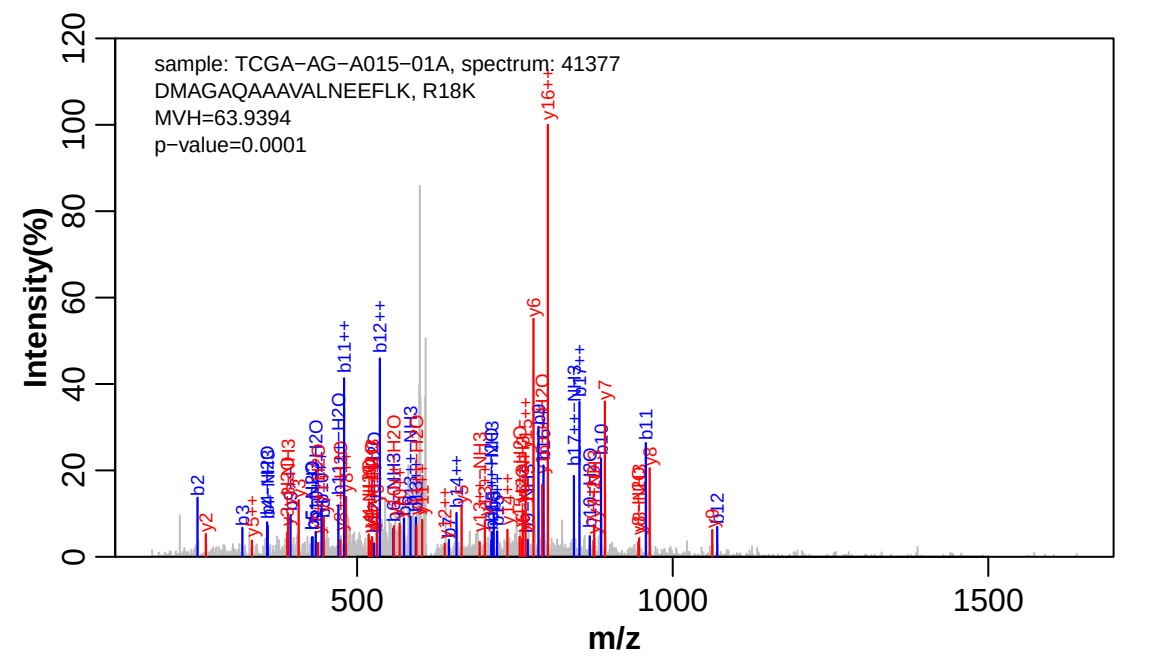

sample: TCGA−AG−A015−01A, spectrum: 71396
AVEVATVVLQPTVLR, S12T
MVH=41.2643
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y8
b7−H2O
y6
y7
b8−H2O
b9
b10
b7
b7−NH3
b8
b8−NH3
b9−H2O
b10−H2O
y9
y8−NH3
b11−NH3
y10
y10−NH3
y11−H2O
b13
b5
b6

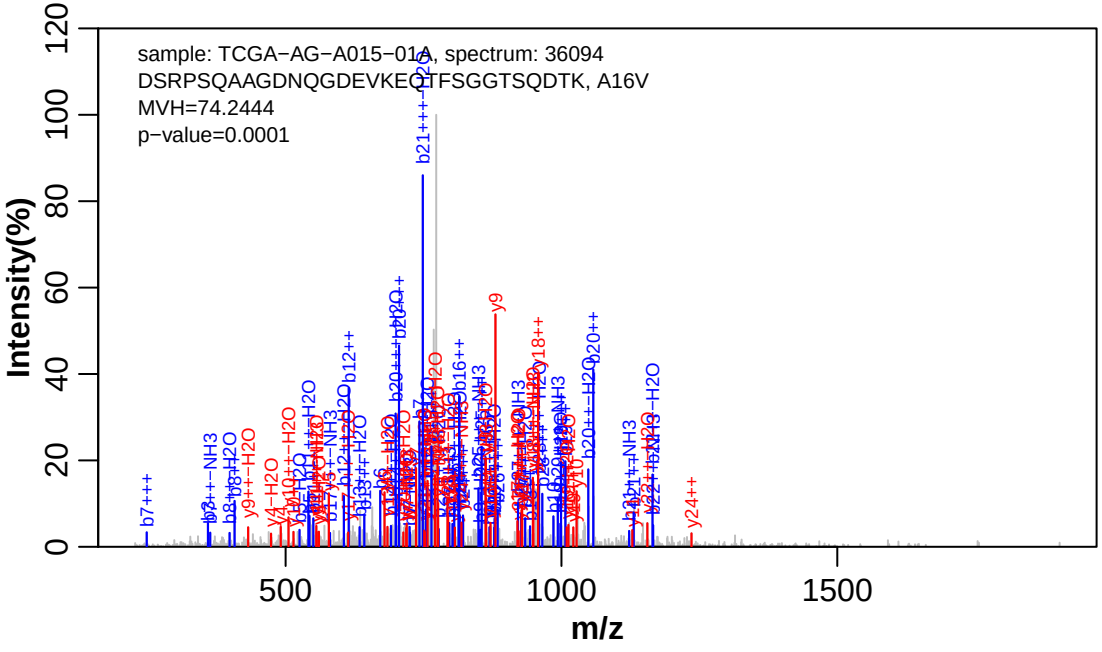

sample: TCGA−AG−A015−01A, spectrum: 92772
CLFASGSPFEPVK, G10E
MVH=44.1582
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
y2
b2
b3
b4
b5
b6
b8−NH3
y8
y8−H2O
y9
y10
y11
b10
b12−H2O
b12
y2−NH3
y4−H2O
y4−NH3

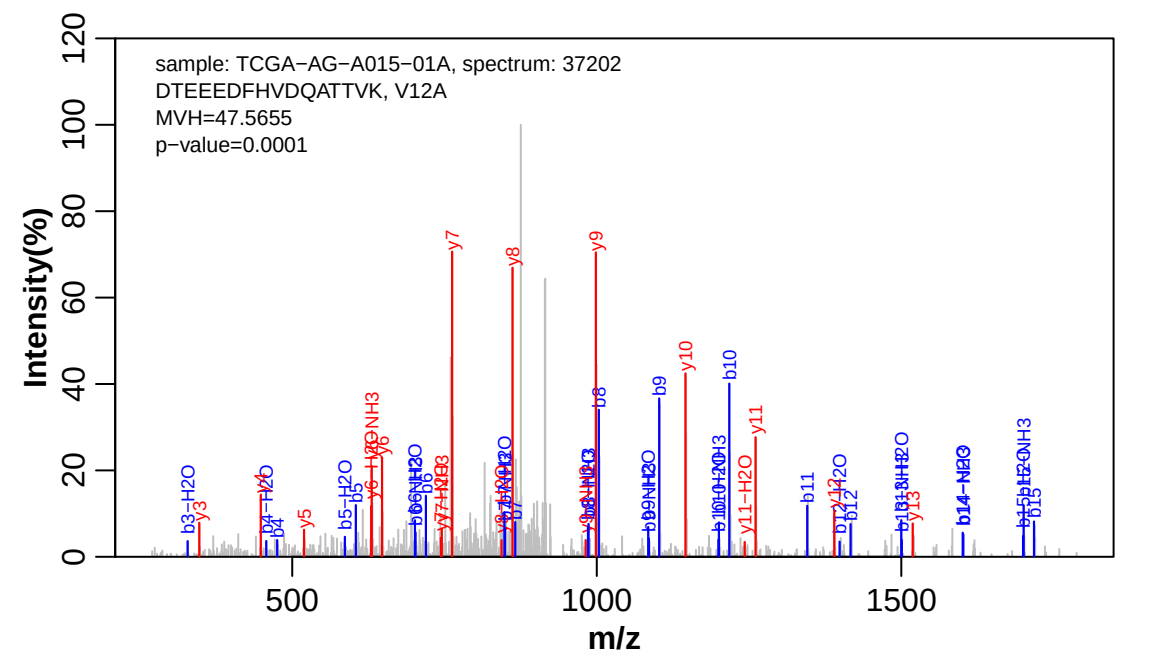

sample: TCGA−AG−A015−01A, spectrum: 78585
DAGNEQDLGLQYK, N1D
MVH=43.8379
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y3
y4
y7
y8
y9
y10
y11
y2−H2O
y2
b4−NH3
b4
b5
b6
b8
b9
b10
b11
b12
y10−NH3

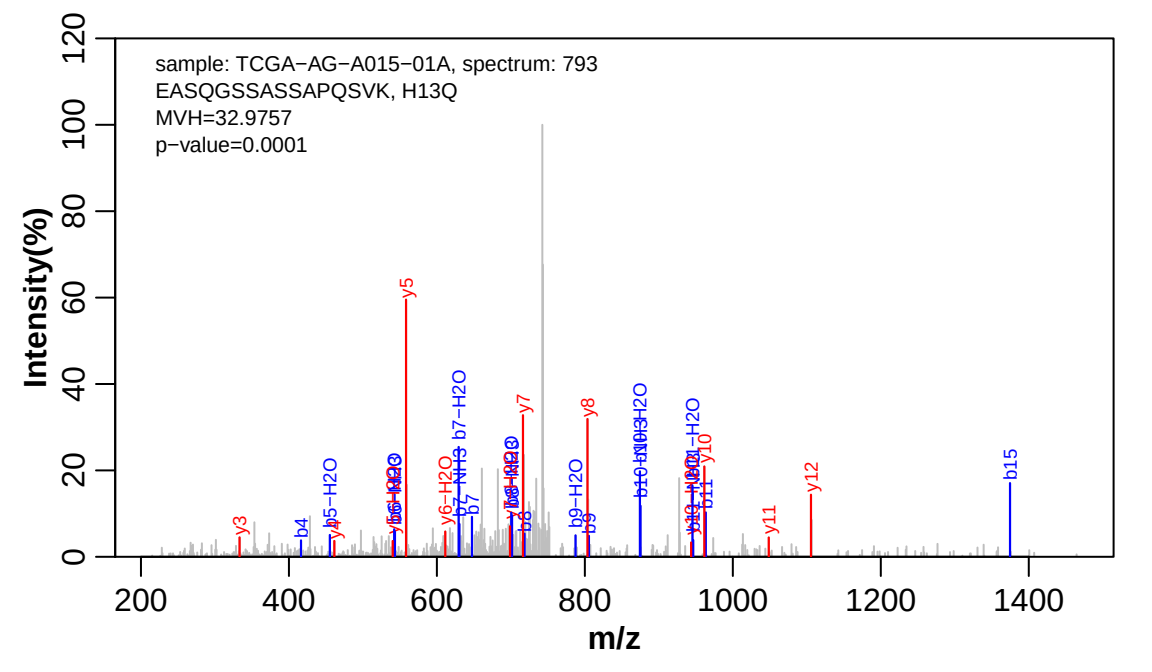

sample: TCGA−AG−A015−01A, spectrum: 19163
DFYVVEPLAFEGTPEQK, I4V
MVH=45.5684
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y4−NH3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7
y8−H2O
y8
y9
b9
y11
y12
b11−H2O
b12
y13−H2O
b13
y14
b16−H2O

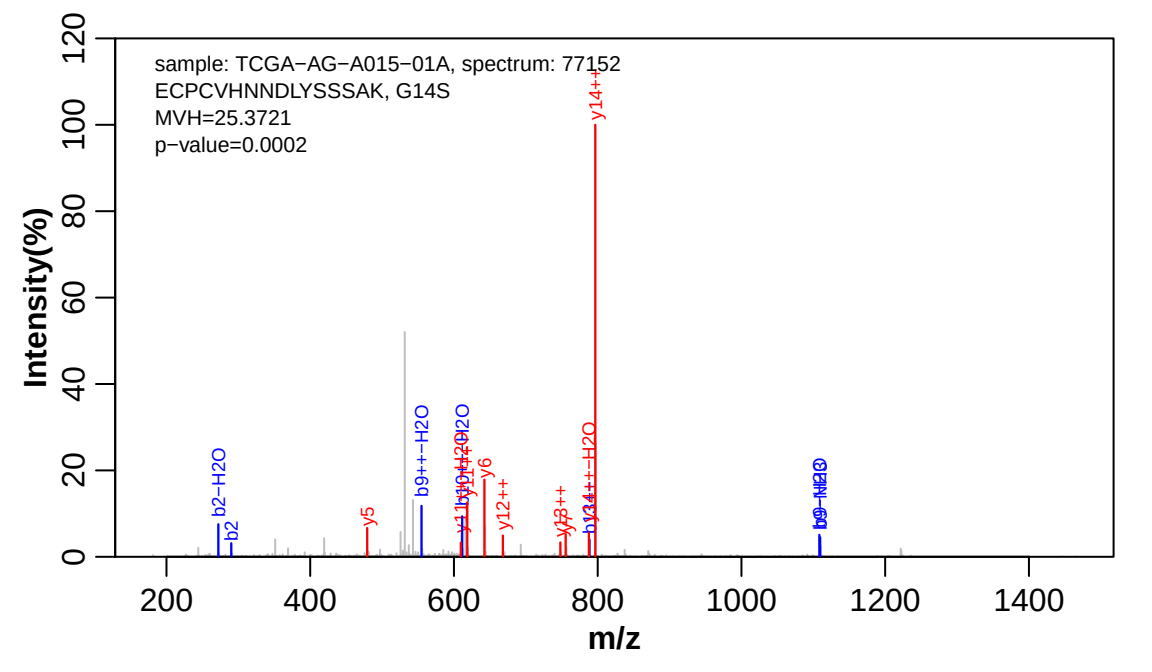

sample: TCGA−AG−A015−01A, spectrum: 139665
DGYGFLNR, N1D
MVH=43.8062
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3
y3−NH3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

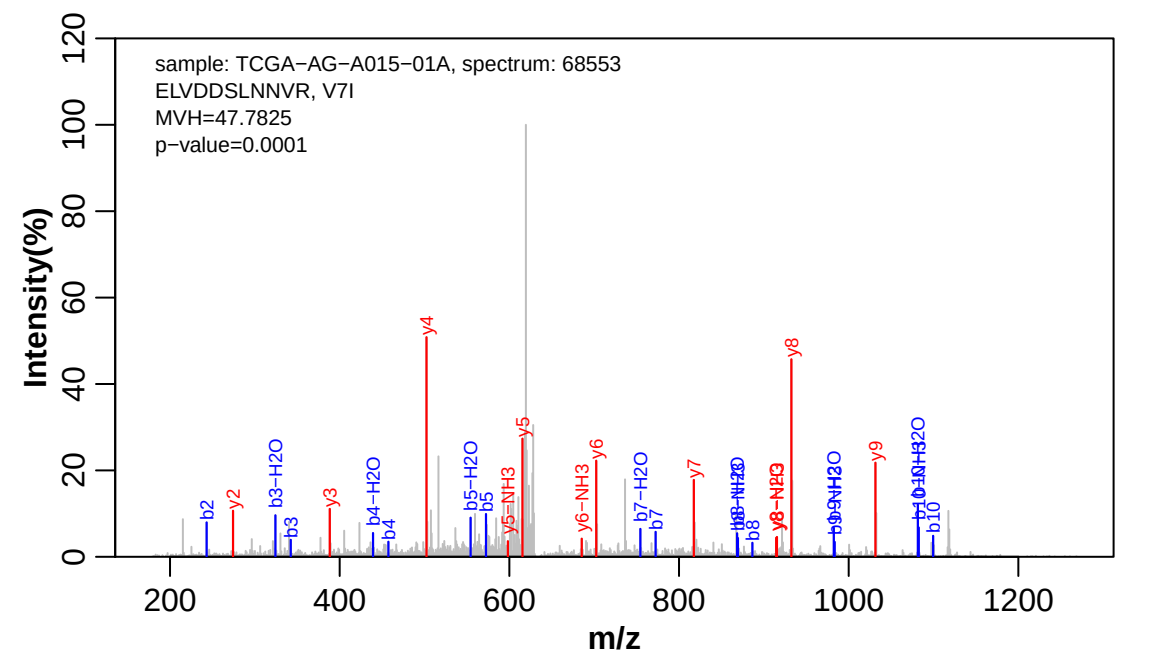

sample: TCGA−AG−A015−01A, spectrum: 41377
DMAGAQAAAVALNEEFLK, R18K
MVH=63.9394
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y6
b12++
b11++
y7
b11
y8
b2
y2
y5+
b3
b4
b12
b14++
y12++
y12+
b17++
b10
y10
y9
y11
y11+
b12+
y13
y13+
y14
y14+
y15
y15+
y16
y16+
y17
y17+
y18
y18+
y19
y19+
y20
y20+
y21
y21+
y22
y22+
y23
y23+
y24
y24+
y25
y25+
y26
y26+
y27
y27+
y28
y28+
y29
y29+
y30
y30+
y31
y31+
y32
y32+

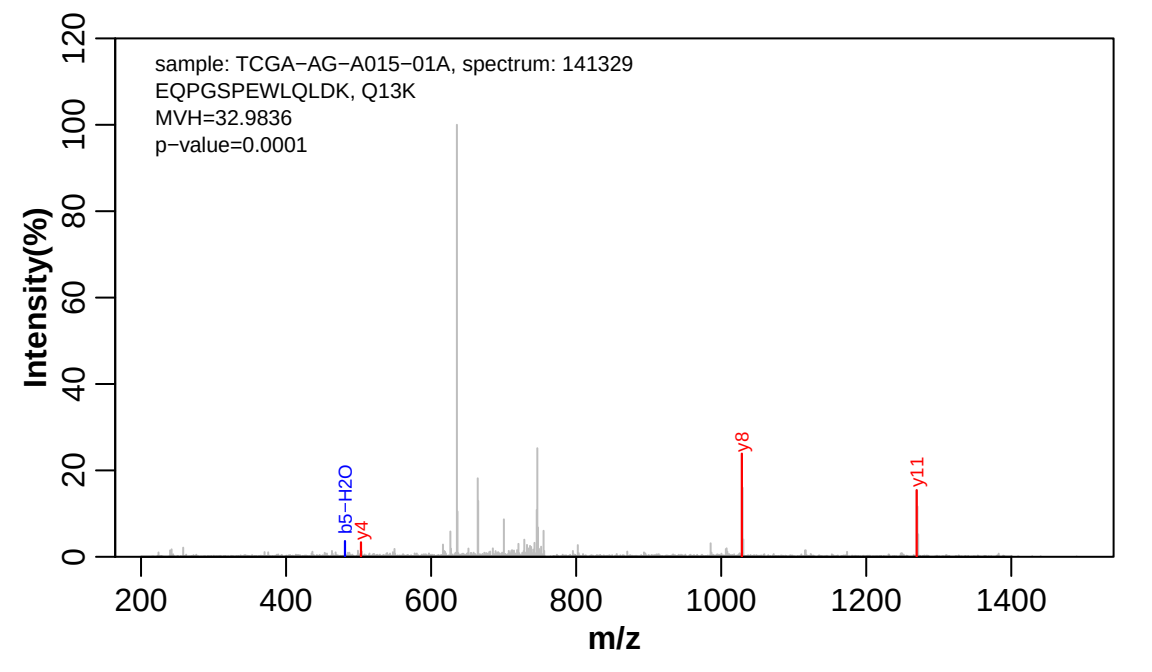

sample: TCGA−AG−A015−01A, spectrum: 36094
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=74.2444
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b7+++
b21+++−H2O
b21+++
y9++−H2O
y9
y24++

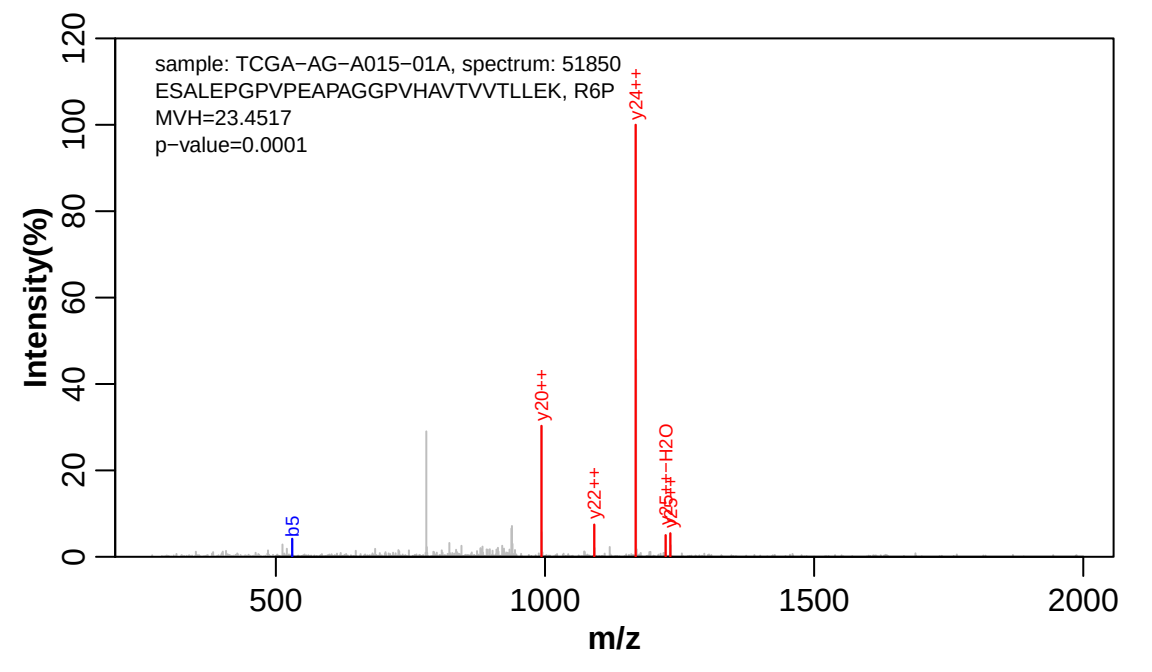

sample: TCGA−AG−A015−01A, spectrum: 37202
DTEEEDFHVDQATTVK, V12A
MVH=47.5655
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3−H2O
y3
y4
y5
b5−H2O
b5
y6
b6
y7
y8
b8
y9
b9
y10
b10
y11
y11−H2O
b11
b12
y13
b15

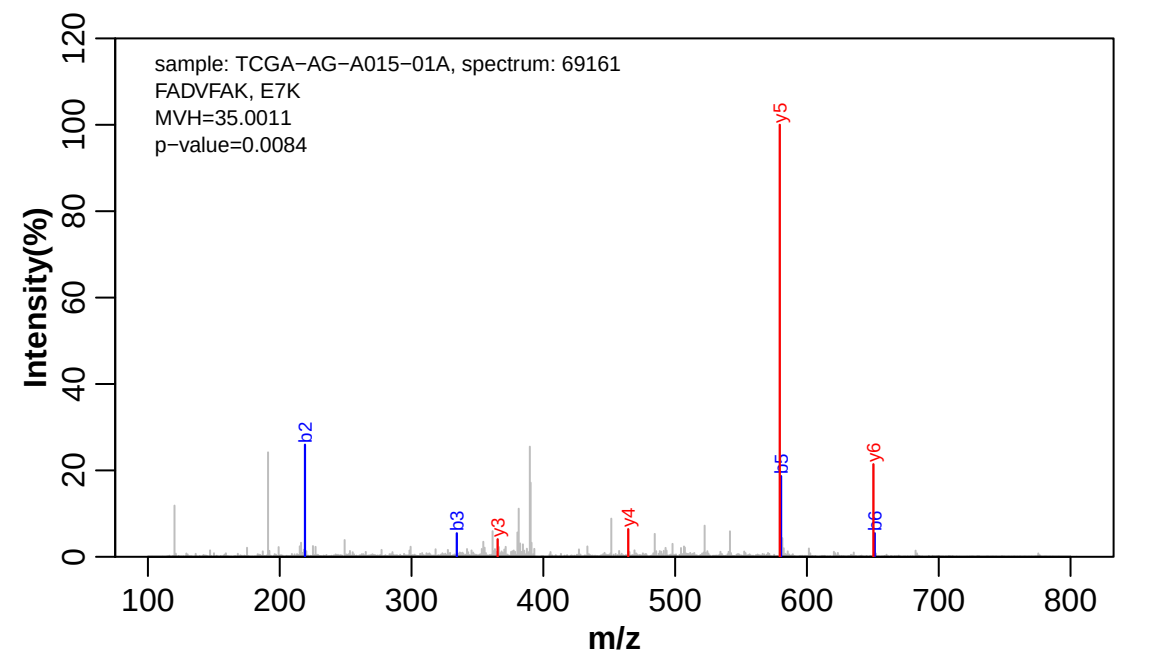

sample: TCGA−AG−A015−01A, spectrum: 793
EASQGSSASSAPQSVK, H13Q
MVH=32.9757
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4
y4
b5−H2O
y5
y6−H2O
b7
b7−NH3
b7−H2O
y7
b8
y8
b9−H2O
b9
b10−H2O
y10
b11
y11
y12
b15

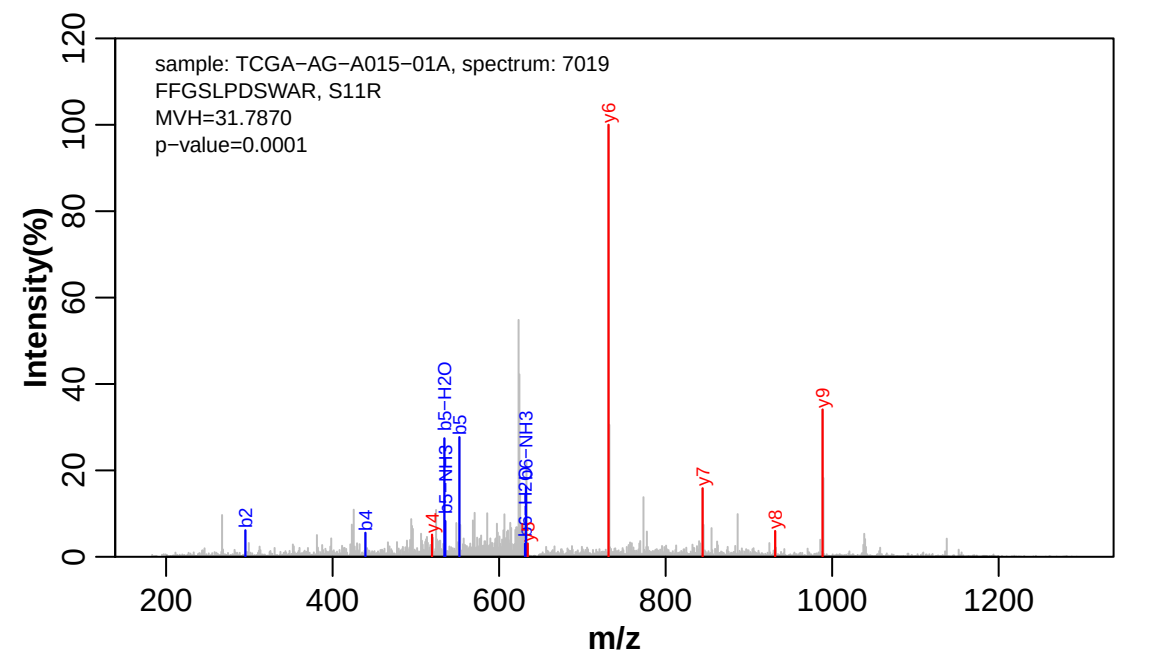

sample: TCGA−AG−A015−01A, spectrum: 77152
ECPCVHNNDLYSSSAK, G14S
MVH=25.3721
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y14++
b2−H2O
b2
y5
b9++−H2O
y6
y12++
y14++−H2O

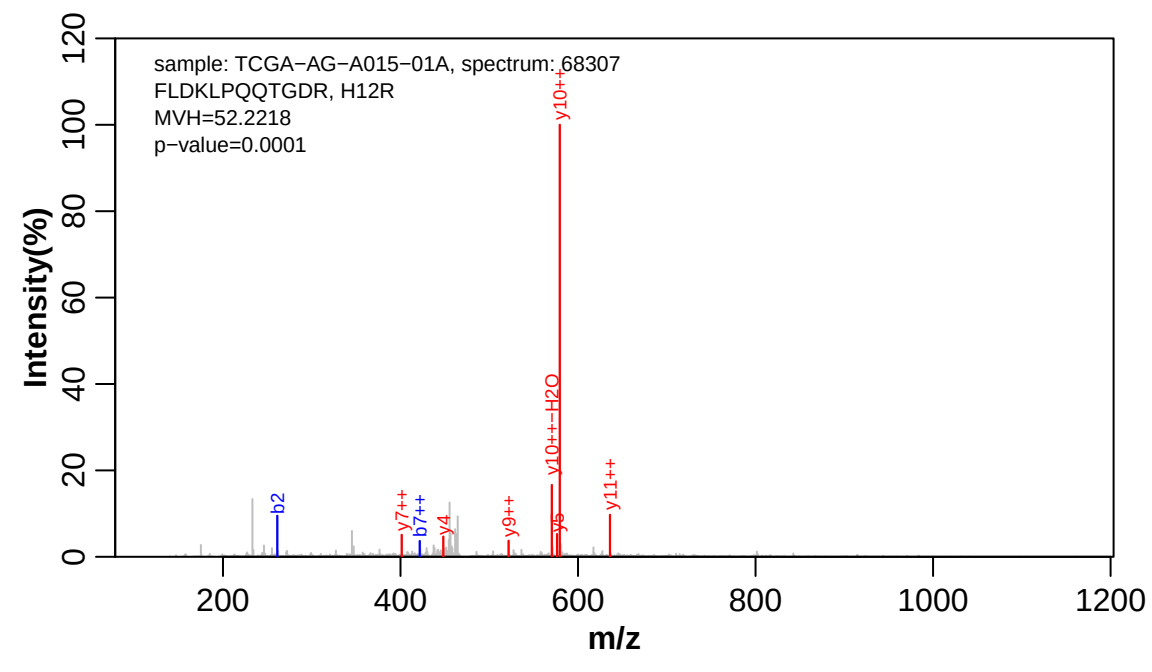

sample: TCGA−AG−A015−01A, spectrum: 68553
ELVDDSLNNVR, V7I
MVH=47.7825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5−NH3
y5
y6−NH3
y6
b7−H2O
b7
y7
b8
y8
y9
b10
b10−H2O

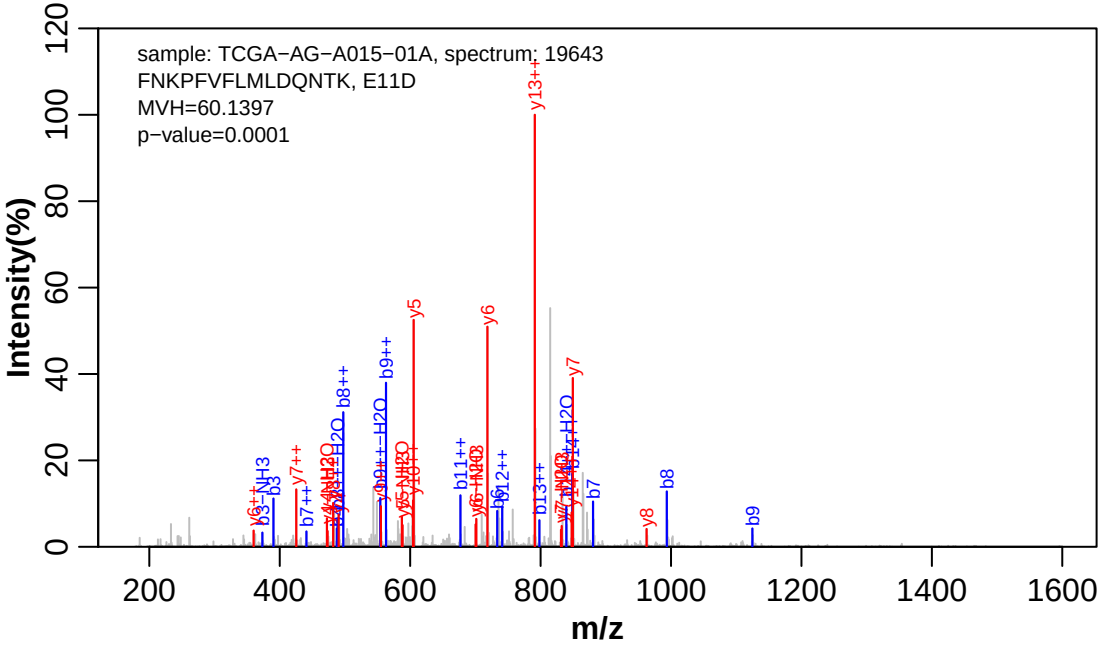

sample: TCGA−AG−A015−01A, spectrum: 141329
EQPGSPEWLQLDK, Q13K
MVH=32.9836
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y8
y11

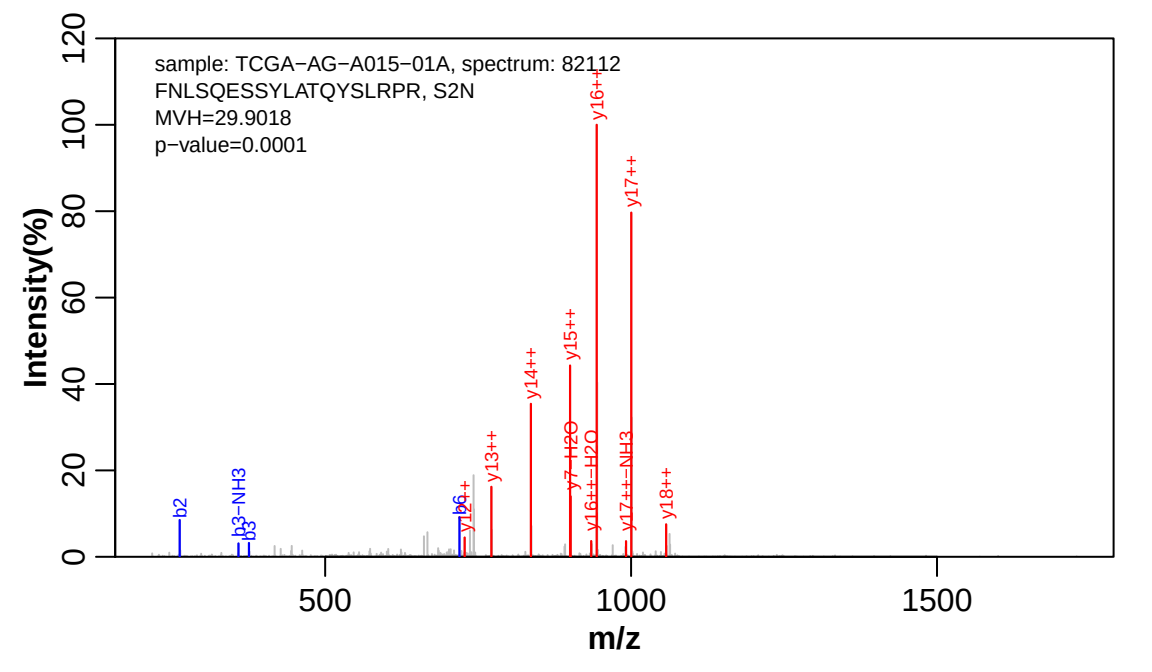

sample: TCGA−AG−A015−01A, spectrum: 51850
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=23.4517
p−value=0.0001
y24++
y20++
y22++
y25++−H2O
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

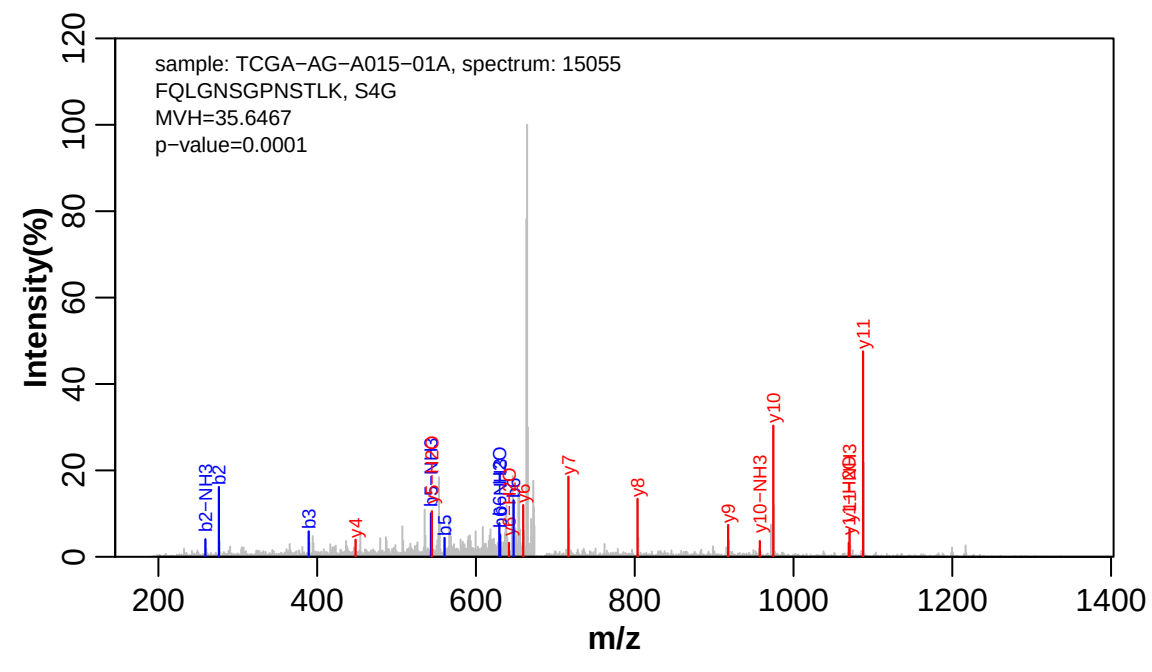

sample: TCGA−AG−A015−01A, spectrum: 69161
FADVFAK, E7K
MVH=35.0011
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2
b3
y3
y4
y5
b5
y6
b6

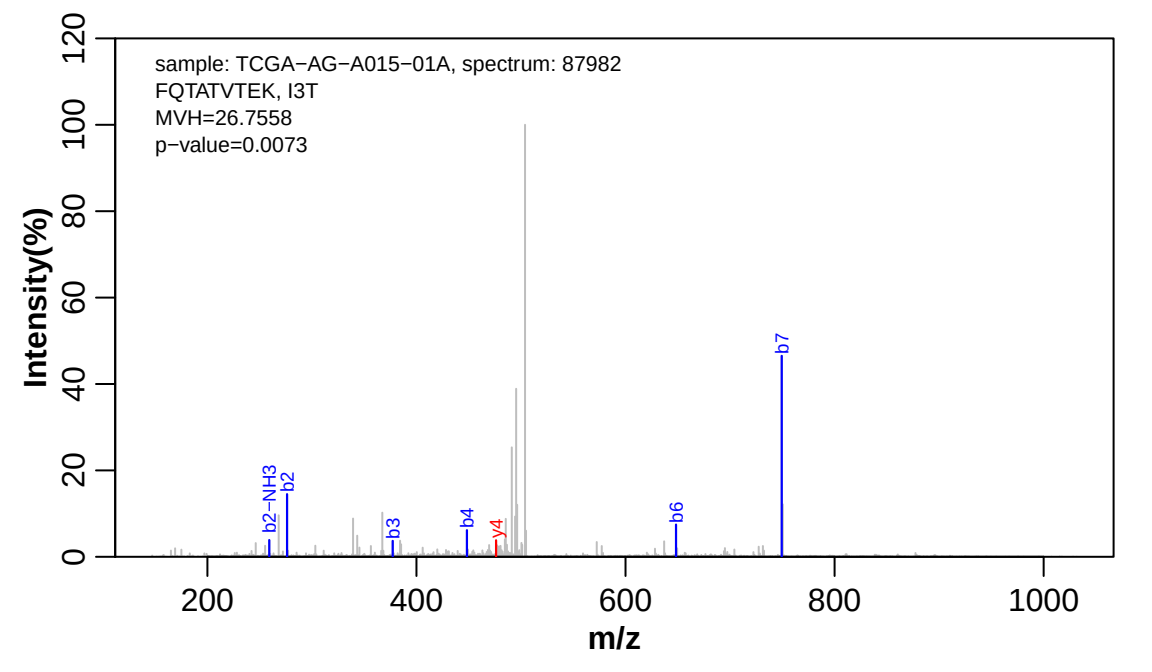

sample: TCGA−AG−A015−01A, spectrum: 7019
FFGSLPDSWAR, S11R
MVH=31.7870
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
y6−H2O
y6−NH3
y6
y7
y8
y9

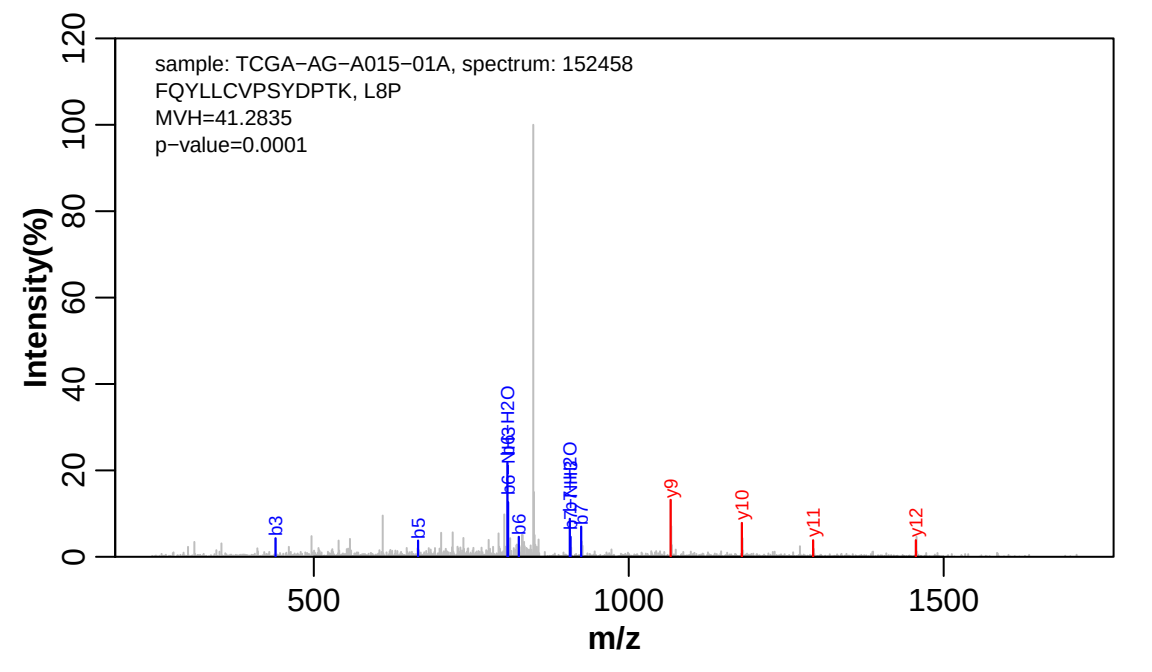

sample: TCGA−AG−A015−01A, spectrum: 68307
FLDKLPQQTGDR, H12R
MVH=52.2218
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
y7++
b7++
y4
y9++
y10++−H2O
y8
y10++
y11++

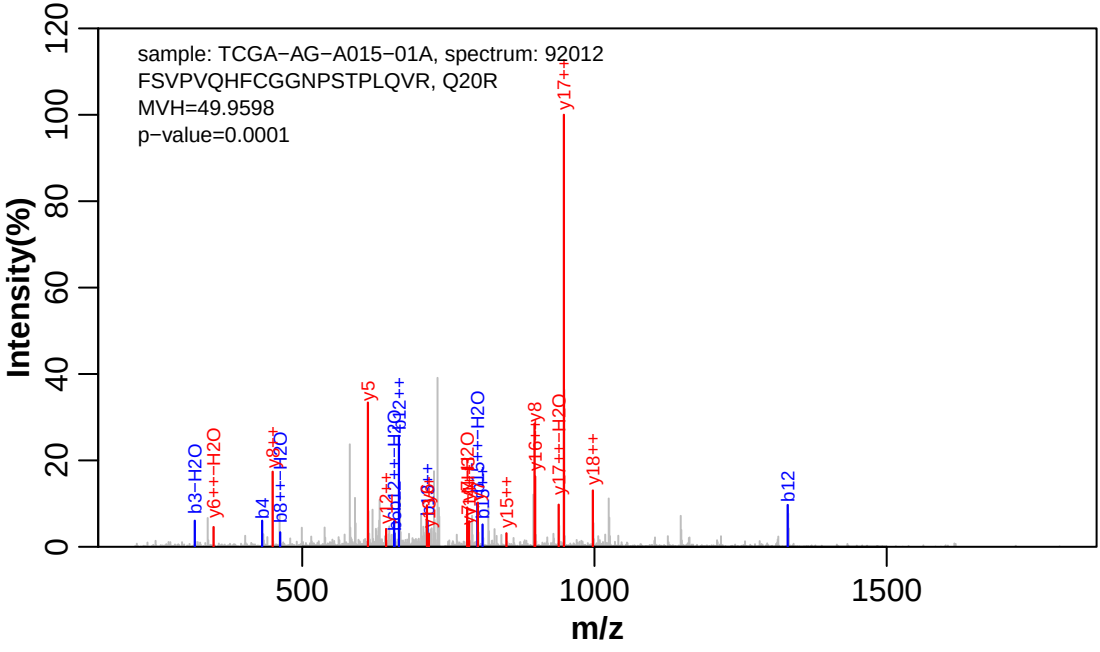

sample: TCGA−AG−A015−01A, spectrum: 19643
FNKPFVFLMLDQNTK, E11D
MVH=60.1397
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
y5
y6
y7
b8
b9
y8
b7
b12++
b11++
b9++
b8++
y7++
b7++
b3
y6++

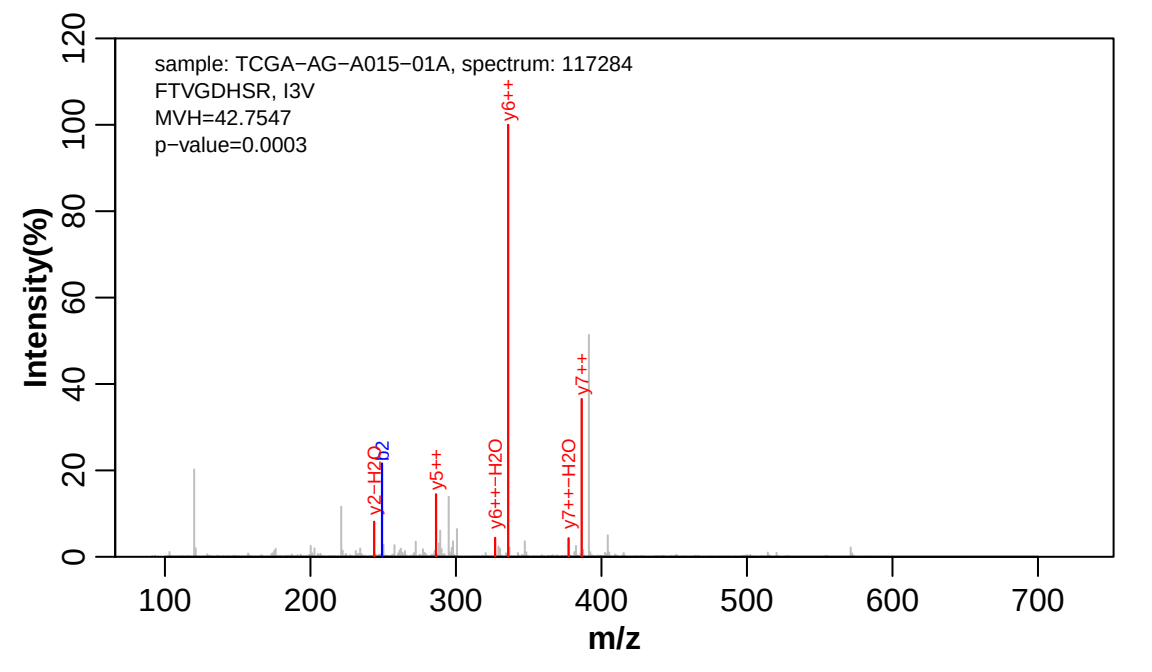

sample: TCGA−AG−A015−01A, spectrum: 82112
FNLSQESSYLATQYSLRPR, S2N
MVH=29.9018
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3−NH3
b3
b6
y12++
y13++
y14++
y15++
y7−H2O
y16++−H2O
y16++
y17++−NH3
y17++
y18++

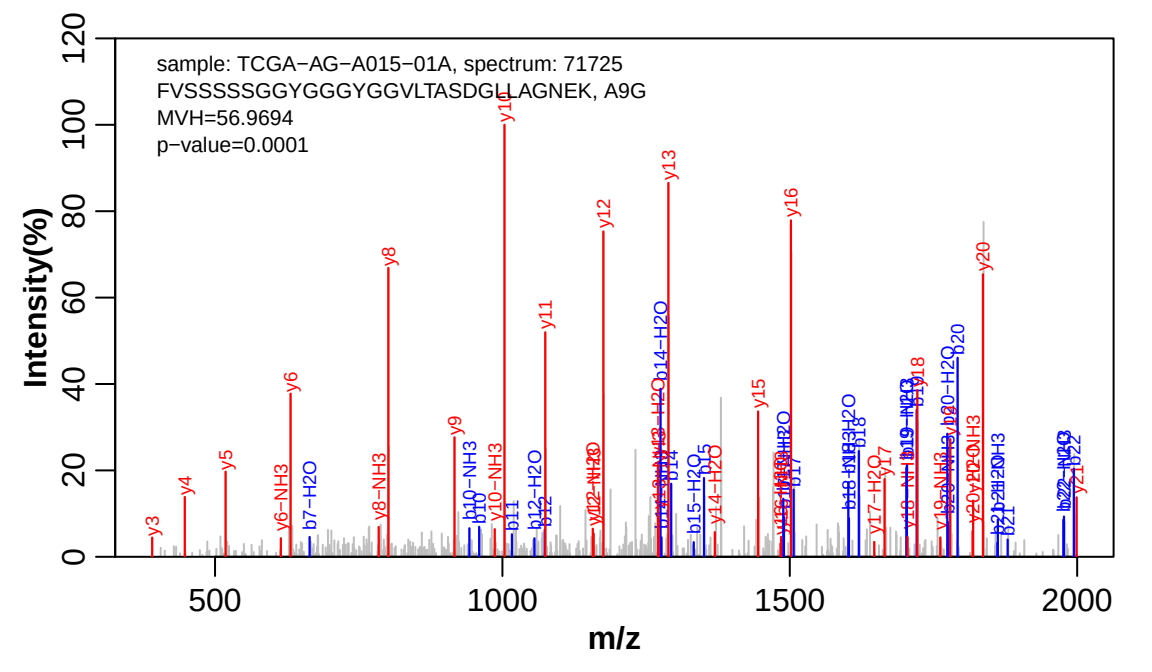

sample: TCGA−AG−A015−01A, spectrum: 15055
FQLGNSGPNSTLK, S4G
MVH=35.6467
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
b2
b3
y4
b5
y7
y8
y9
y10−NH3
y10
y11

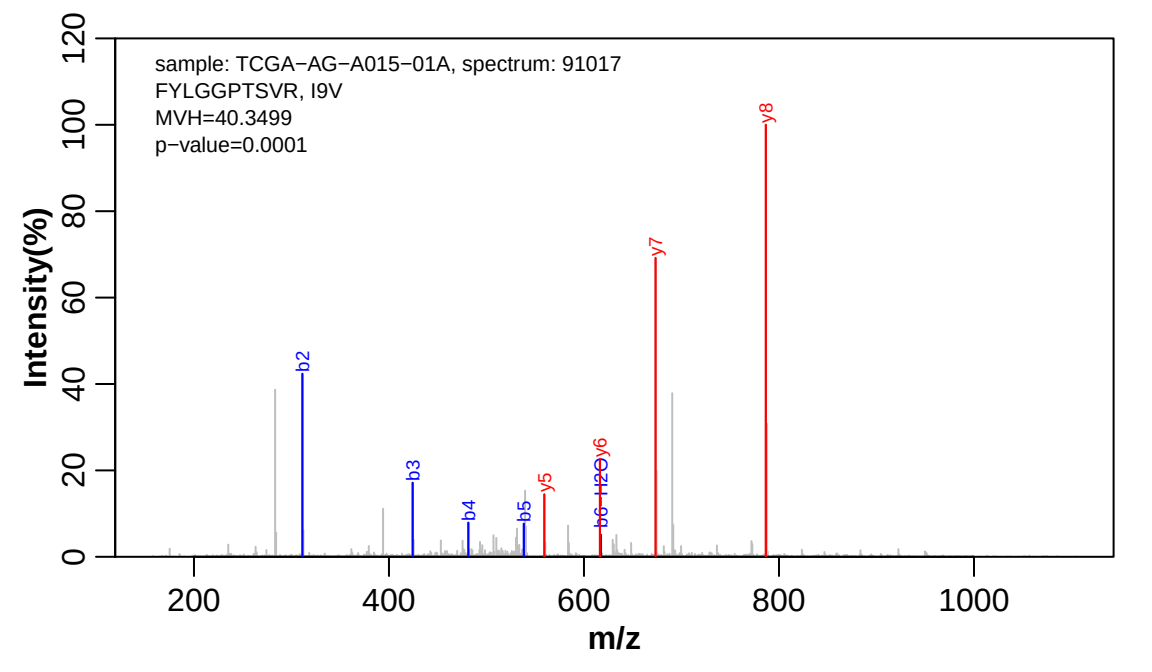

sample: TCGA−AG−A015−01A, spectrum: 87982
FQTATVTEK, I3T
MVH=26.7558
p−value=0.0073
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2−NH3
b2
b3
b4
y4
b6
b7

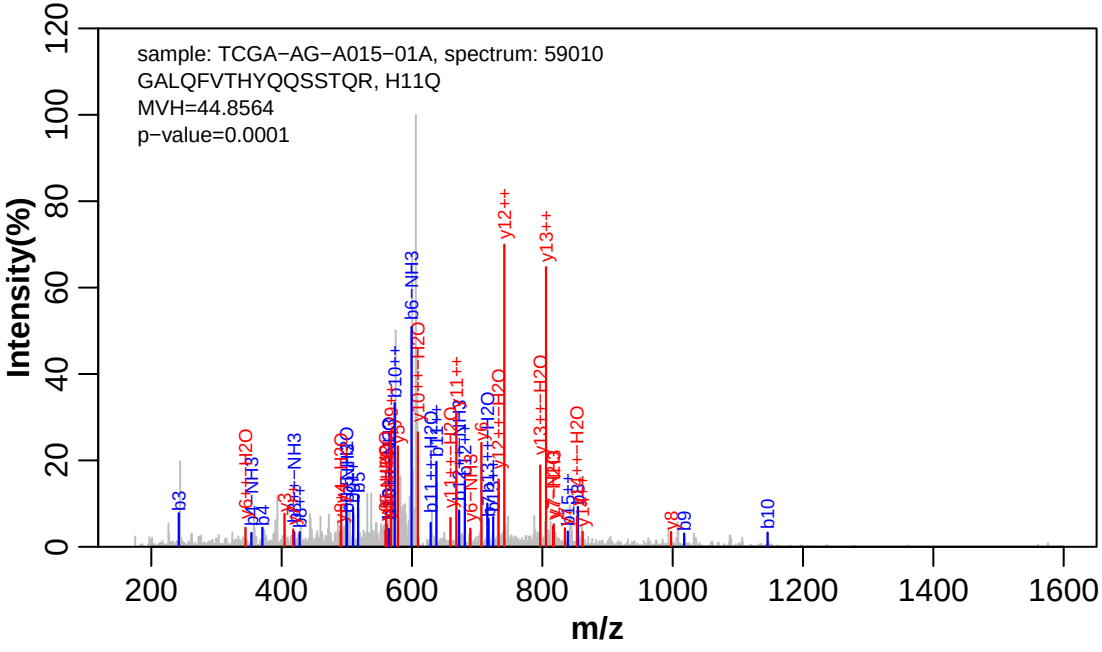

sample: TCGA−AG−A015−01A, spectrum: 152458
FQYLLCVPSYDPTK, L8P
MVH=41.2835
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
b5
b6−NH3
b6−H2O
b6
b7−NH3
b7−H2O
b7
y9
y10
y11
y12

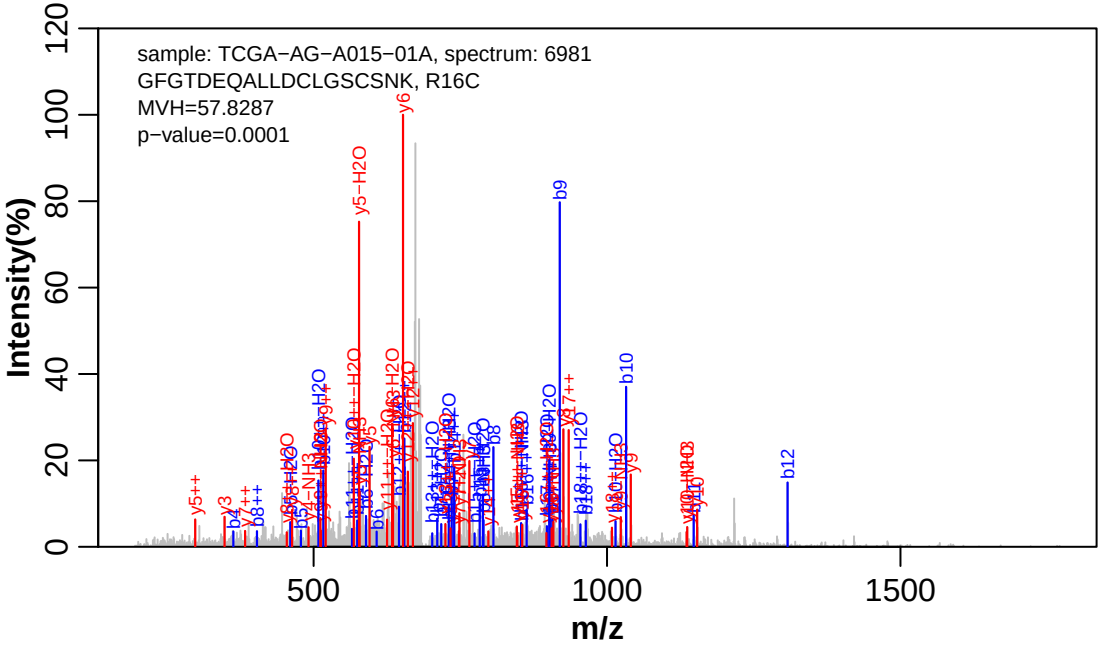

sample: TCGA−AG−A015−01A, spectrum: 92012
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=49.9598
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y6++−H2O
b4
b8++−H2O
y8++
y5
y12++
y15++
y16++y8
y17++−H2O
y17++
y18++
b12

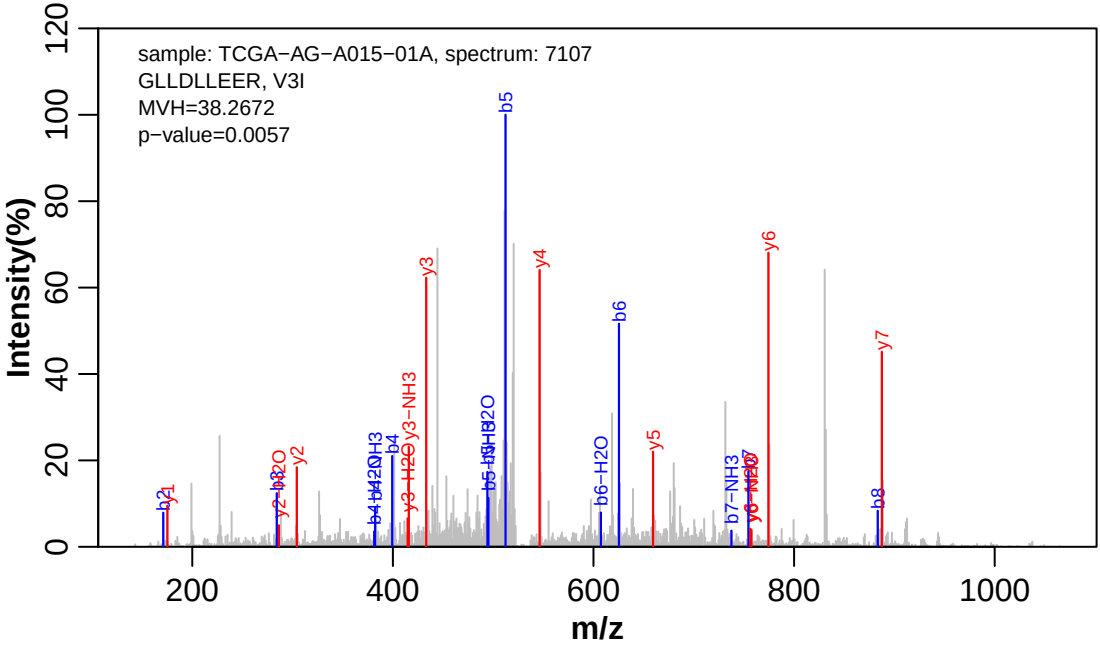

sample: TCGA−AG−A015−01A, spectrum: 117284
FTVGDHSR, I3V
MVH=42.7547
p−value=0.0003
y6++
y7++
y2−H2O
b2
y5++
y6++−H2O
y7++−H2O
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z

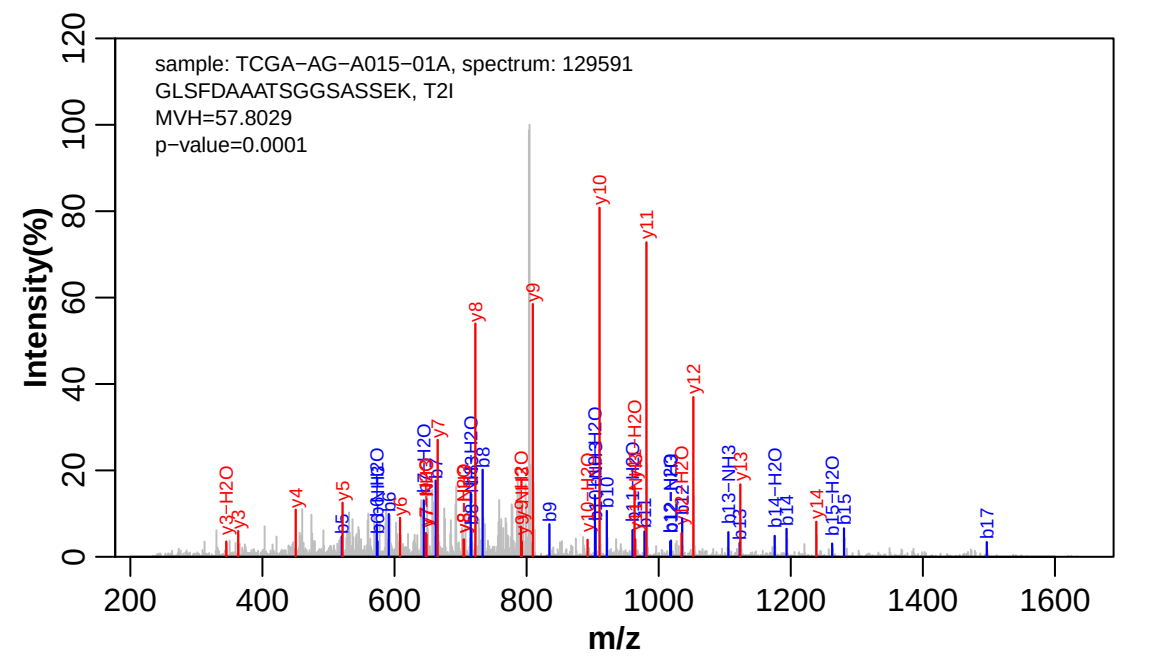

sample: TCGA−AG−A015−01A, spectrum: 71725
FVSSSSSGGYGGGYGGVLTASDGLAGNEK, A9G
MVH=56.9694
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y6−NH3
y6
b7−H2O
y8−NH3
y8
b10−NH3
y9
b10
y10−NH3
b11
y10
b12−H2O
y11
b12
y12−NH3
y12
y12−H2O
b14−H2O
y13
b14
b15−H2O
b15
y14−H2O
y15
y16
b17
b18−NH3−H2O
b18
y17−H2O
y17
b19−NH3
b19
b20−H2O
b20
y20−NH3
y20
b21
b22−NH3
y21
b22

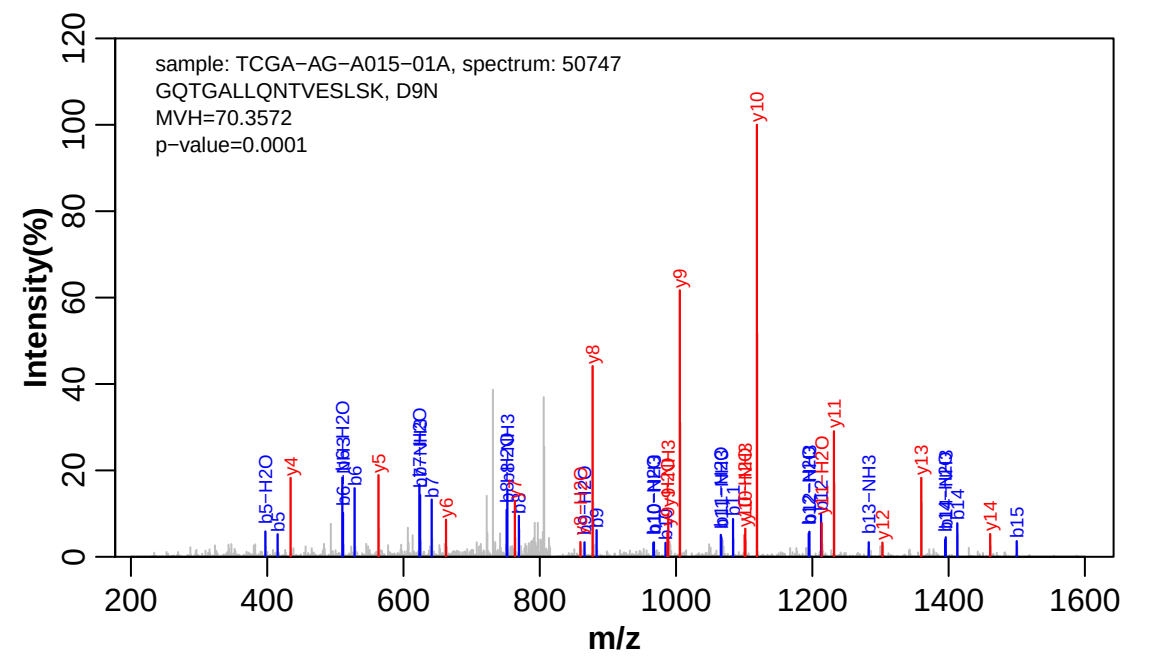

sample: TCGA−AG−A015−01A, spectrum: 91017
FYLGGPTSVR, I9V
MVH=40.3499
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

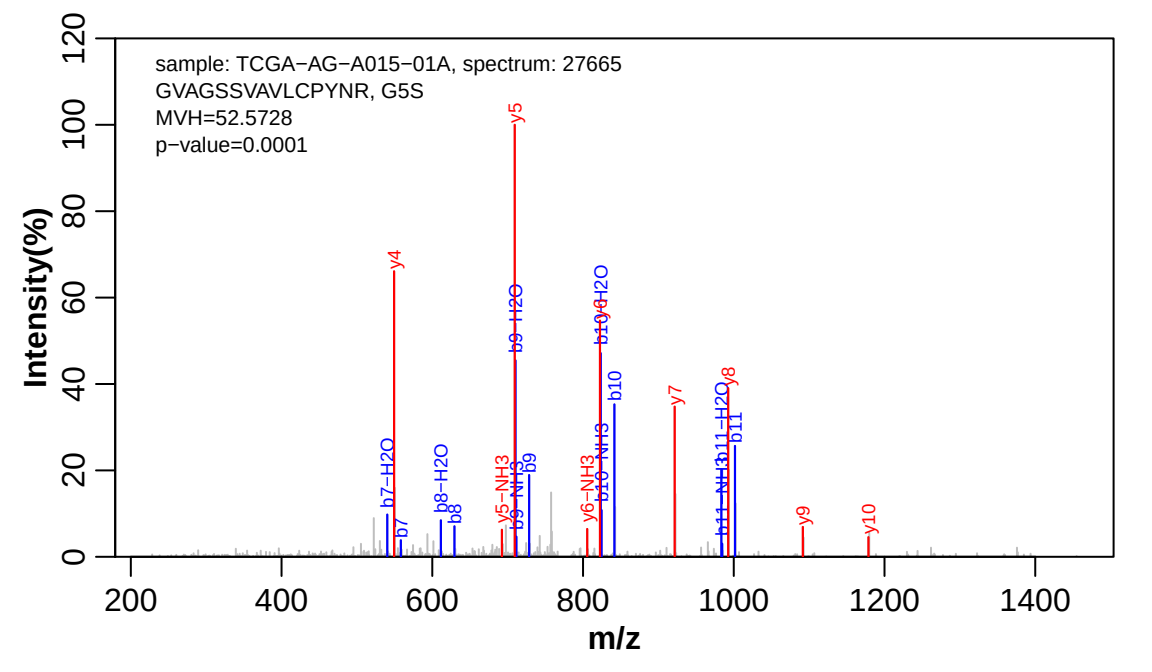

sample: TCGA−AG−A015−01A, spectrum: 59010
GALQFVTHYQQSSTQR, H11Q
MVH=44.8564
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
b4
b5
b6−NH3
b10++
b11++
y12++
y13++
y13++−H2O
y14++−H2O
b10
b9
y8

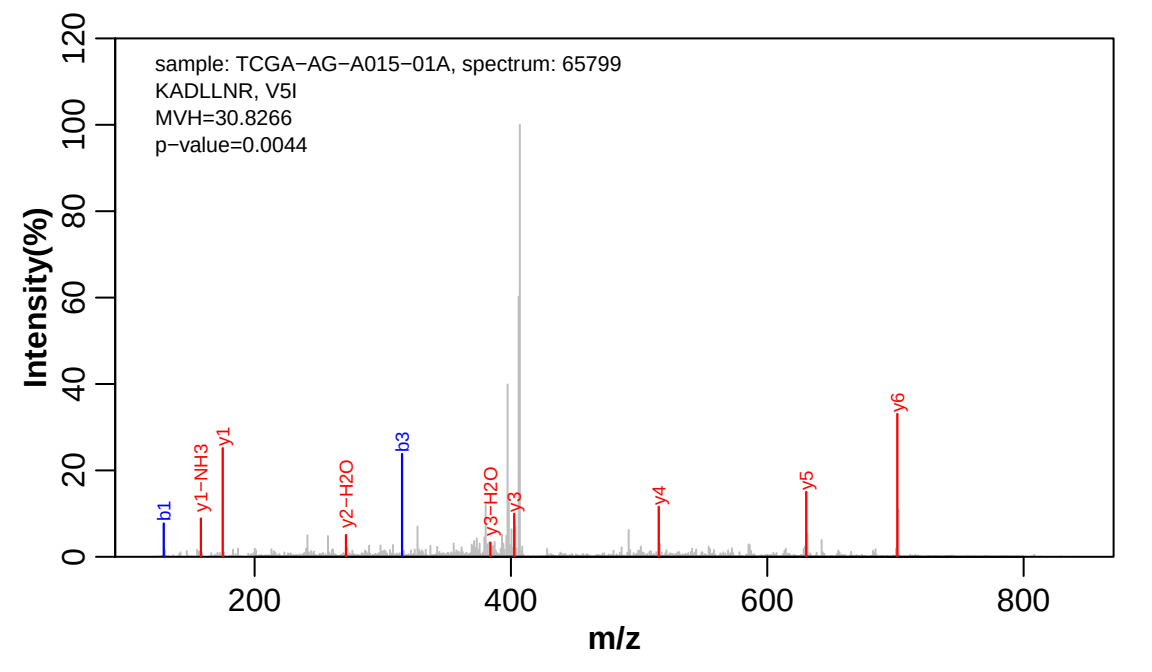

sample: TCGA−AG−A015−01A, spectrum: 6981
GFGTDEQALLDCLGSCSNK, R16C
MVH=57.8287
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
b12
y5++
y3
b2++
b8++

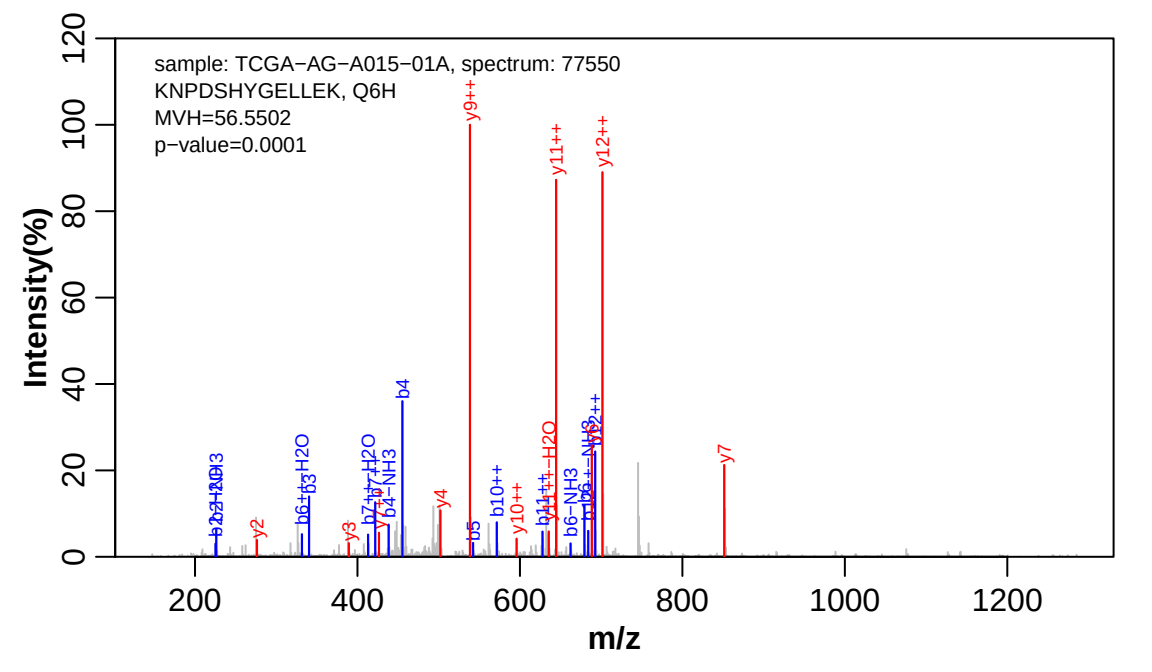

sample: TCGA−AG−A015−01A, spectrum: 7107
GLLDLLEER, V3I
MVH=38.2672
p−value=0.0057
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b5
y4
y3
y6
b6
y7
y5
b8
b2
y1
y2
y2−H2O
b4
b4−NH3
y3−H2O
y3−NH3
b5−NH3
b5−H2O
b6−H2O
b7−NH3
y6−NH3
y6−H2O

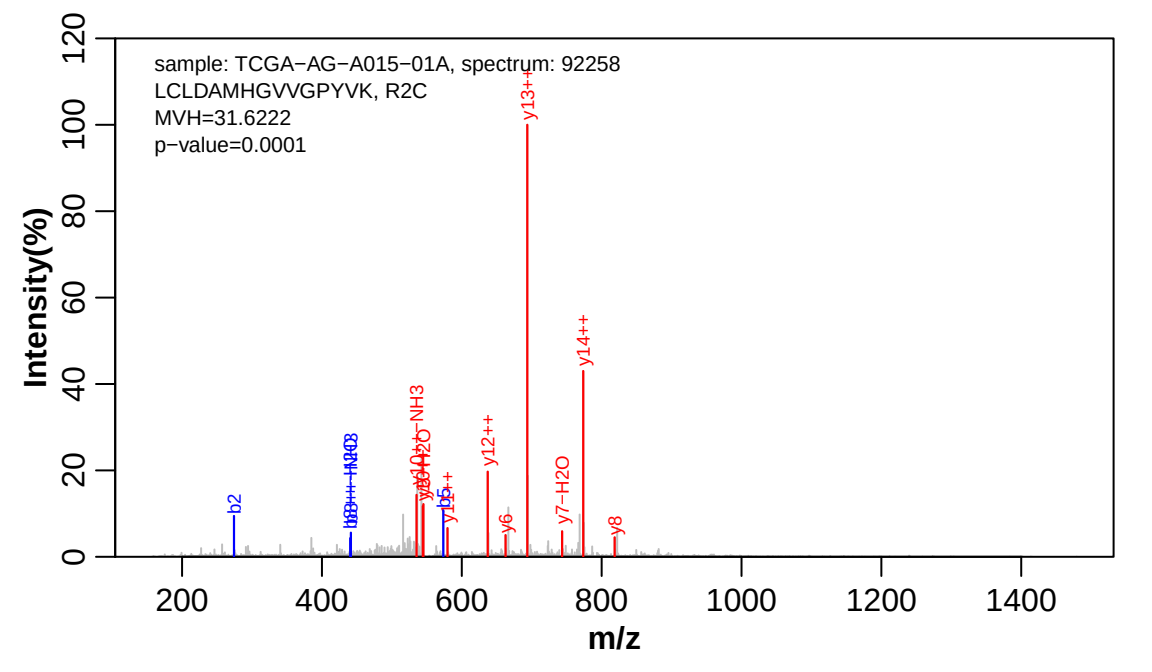

sample: TCGA−AG−A015−01A, spectrum: 129591
GLSFDAAATSGGSASSEK, T2I
MVH=57.8029
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y11
y9
y8
y12
y4
y5
y6
y7
y3−H2O
b9
b10
b11−H2O
b12−NH3
b13−NH3
b14−H2O
b15−H2O
y14
y13
b17

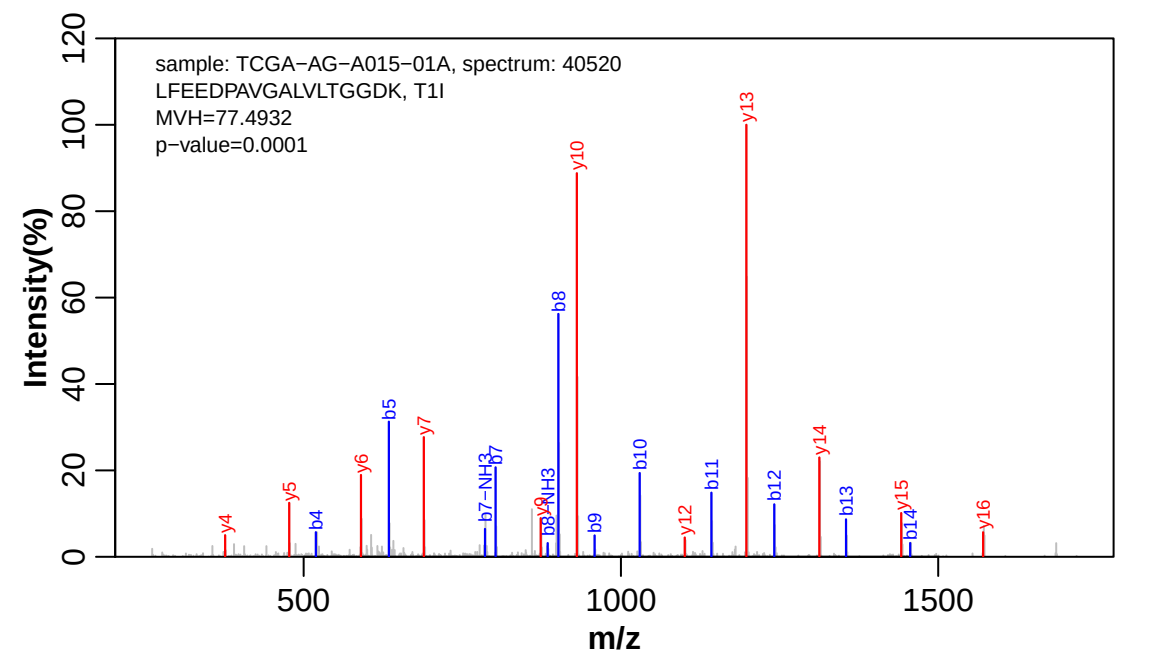

sample: TCGA−AG−A015−01A, spectrum: 50747
GQTGALLQNTVESLSK, D9N
MVH=70.3572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
b15
y12
b13−NH3
y6
y5
y4
b5
b5−H2O

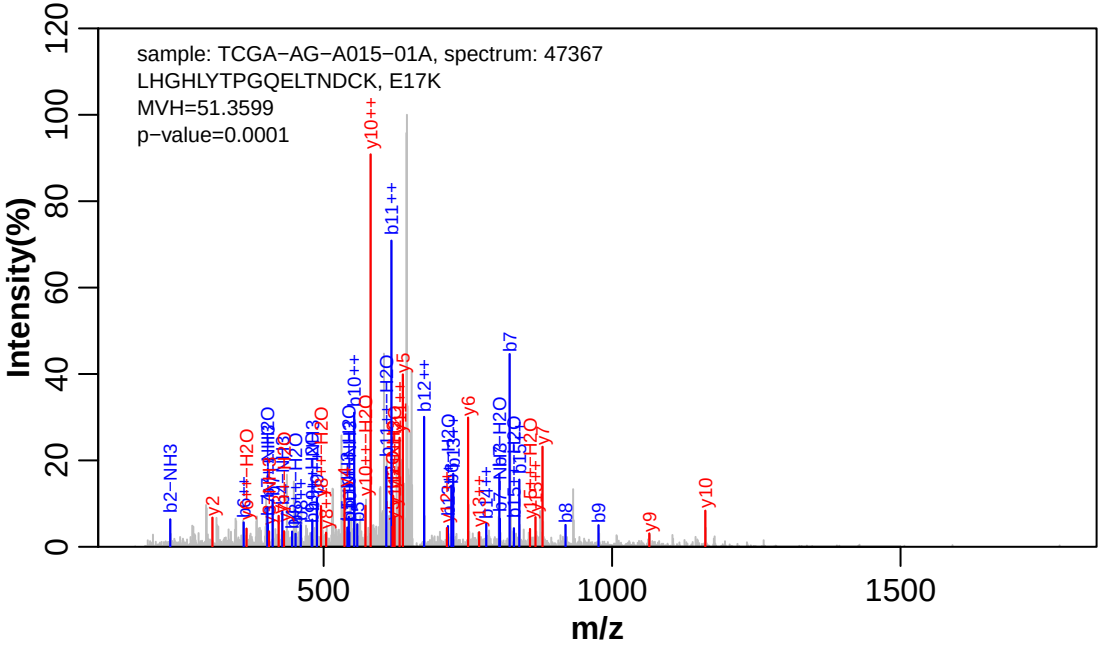

sample: TCGA−AG−A015−01A, spectrum: 27665
GVAGSSVAVLCPYNR, G5S
MVH=52.5728
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b10−H2O
b10
y7
y8
b11−H2O
b11
b7−H2O
b8−H2O
y5−NH3
b9−NH3
b9
y6−NH3
b10−NH3
b11−NH3
y9
y10
b7
b8

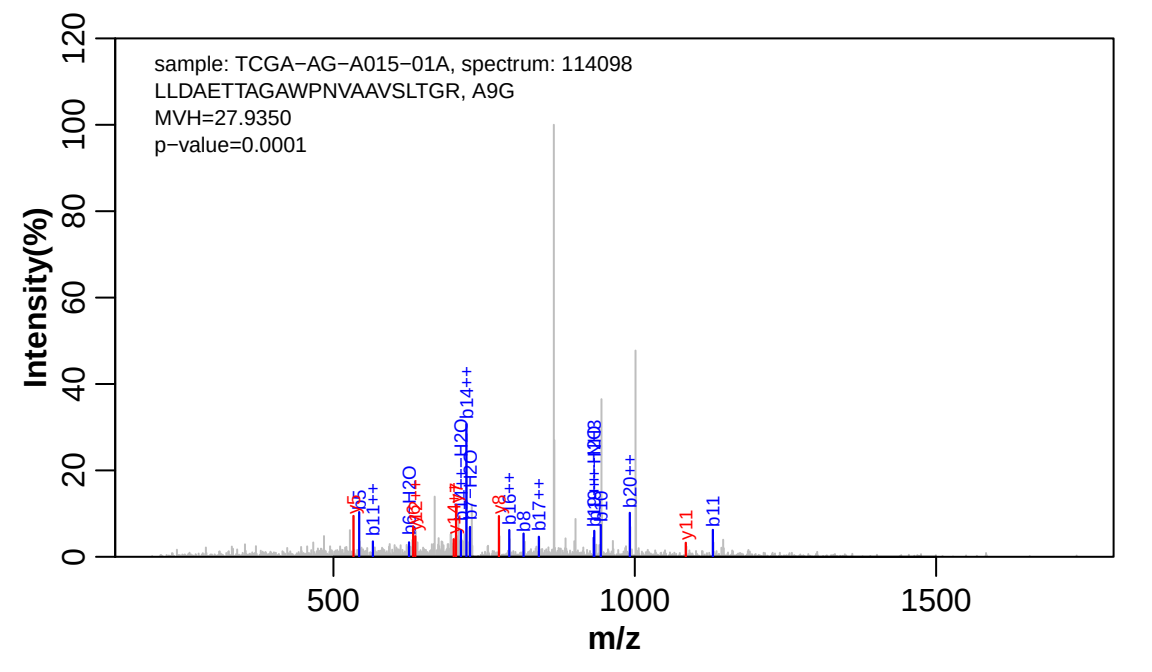

sample: TCGA−AG−A015−01A, spectrum: 65799
KADLLNR, V5I
MVH=30.8266
p−value=0.0044
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b1
y1−NH3
y1
y2−H2O
b3
y3−H2O
y3
y4
y5
y6

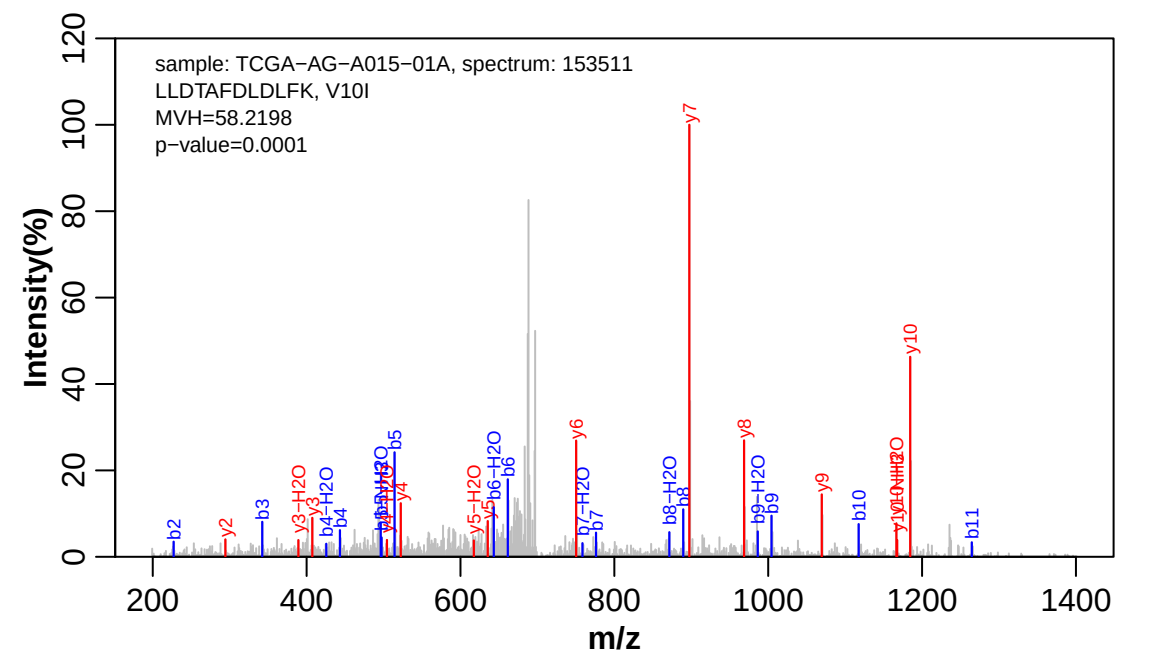

sample: TCGA−AG−A015−01A, spectrum: 77550
KNPDSHYGELLEK, Q6H
MVH=56.5502
p−value=0.0001
Intensity(%)
m/z
y9++
y11++
y12++
b4
y4
b5
b10++
y10++
y7
y2
y3
b6+−H2O
b6−NH3
b4−NH3
y12++−NH3
y11++−H2O

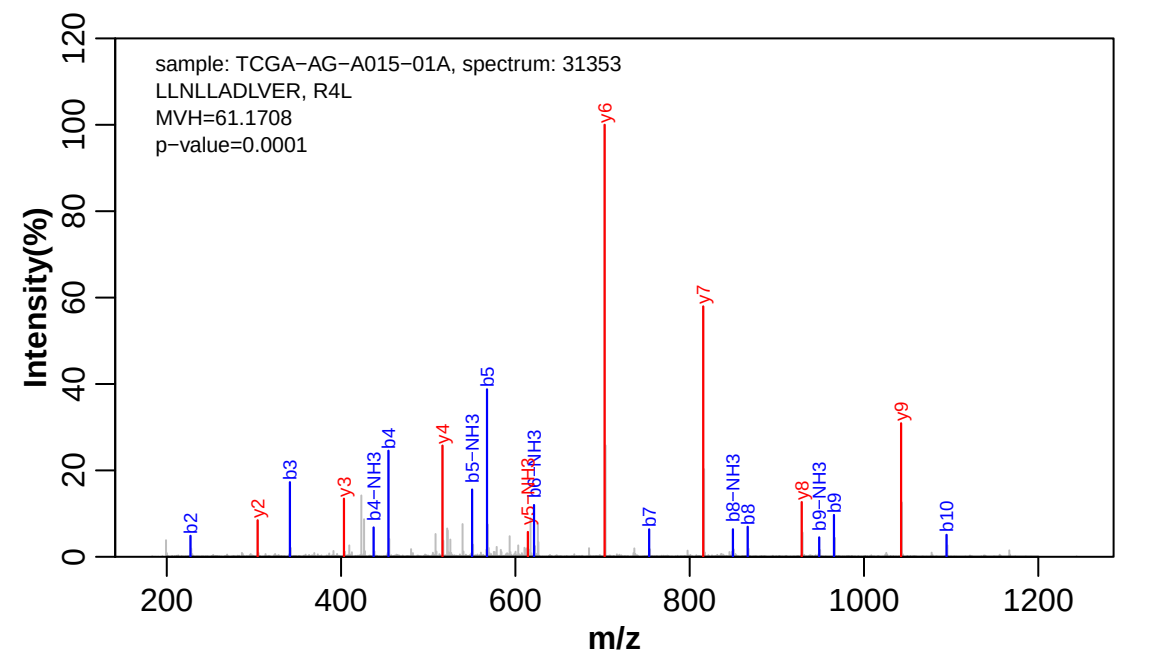

sample: TCGA−AG−A015−01A, spectrum: 92258
LCLDAMHGVVGPYVK, R2C
MVH=31.6222
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y13++
y14++
y12++
y7−H2O
y6
y8
y5++
y12++−NH3
y12++−H2O

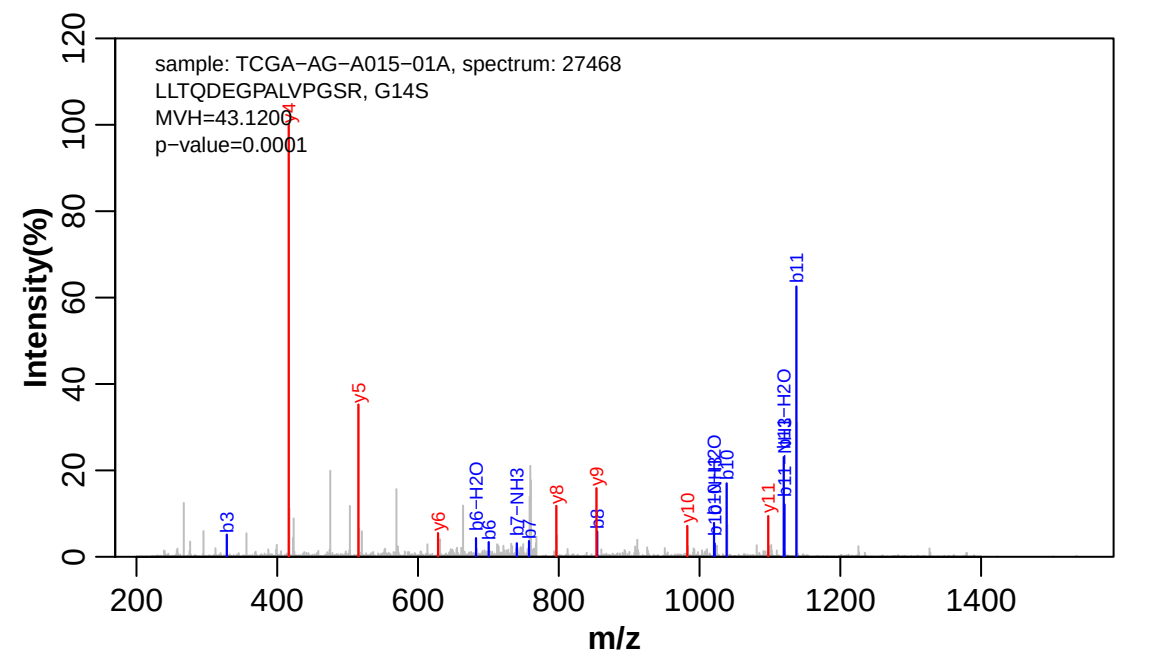

sample: TCGA−AG−A015−01A, spectrum: 40520
LFEEDPAVGALVLTGGDK, T1I
MVH=77.4932
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5
y7
b7−NH3
b7
b8−NH3
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
b14
y15
y16

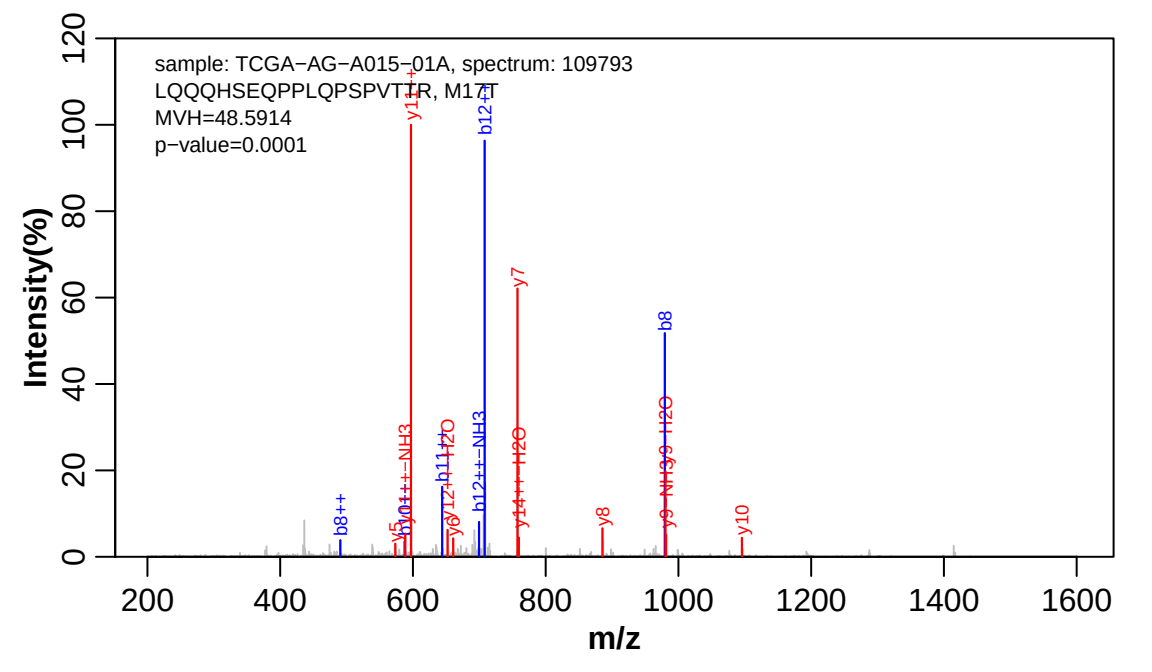

sample: TCGA−AG−A015−01A, spectrum: 47367
LHGHLYTPGQELTNDCK, E17K
MVH=51.3599
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2−NH3
y2
b6++−H2O
y10++
b11++
b10++
b11++−H2O
y5
b12++
y6
b7
y7
y13++
b8
b9
y9
y10

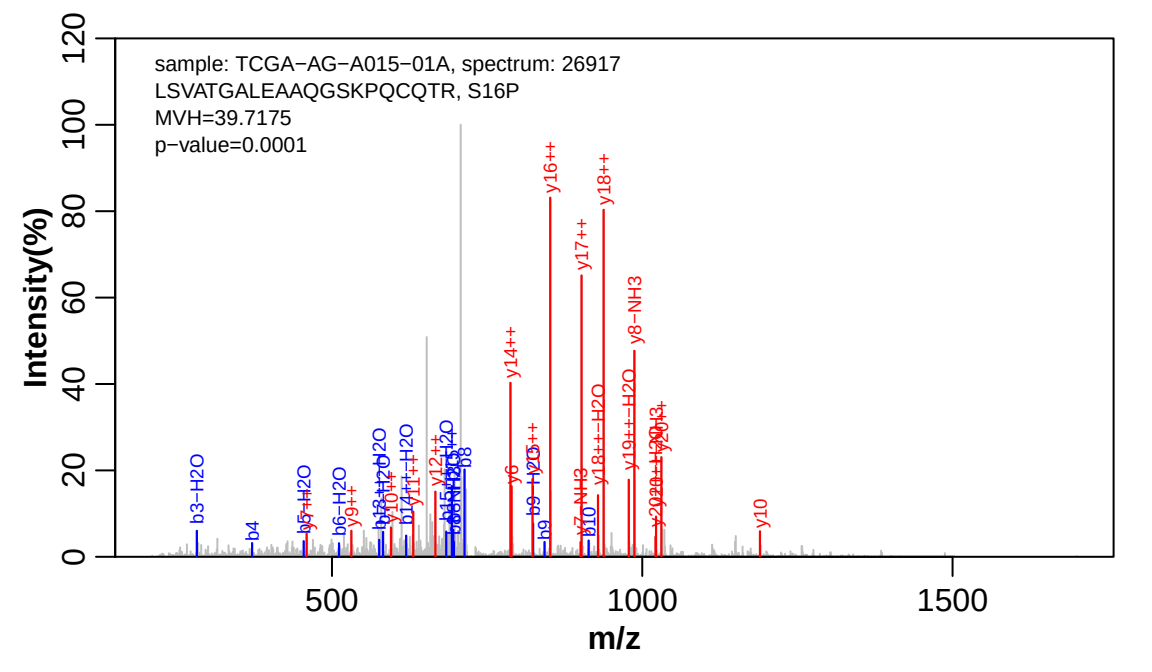

sample: TCGA−AG−A015−01A, spectrum: 114098
LLDAETTAGAWPNVAAVSLTGR, A9G
MVH=27.9350
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
b11++
b6−H2O
y12++
y14++−H2O
y7−H2O
b14++
y8
b16++
b8
b17++
b20++
y11
b11

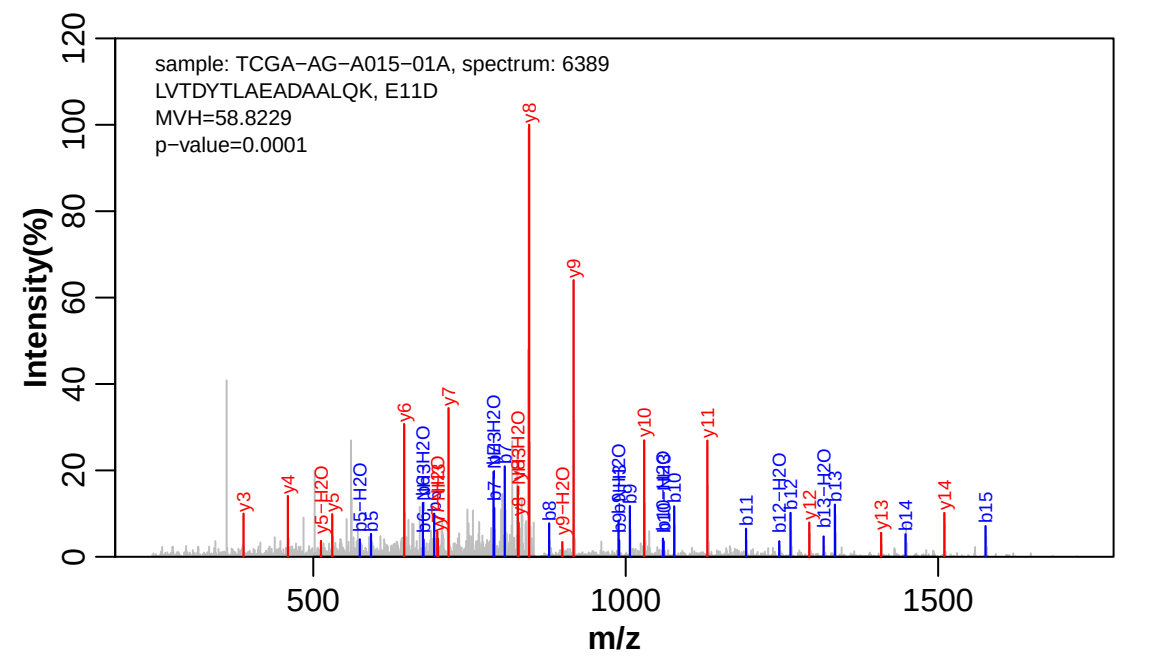

sample: TCGA−AG−A015−01A, spectrum: 153511
LLDTAFDLDLFK, V10I
MVH=58.2198
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4−H2O
b4
b5
y4
y5−H2O
y5
b6−H2O
b6
y6
b7−H2O
b7
b8−H2O
b8
y7
y8
b9−H2O
b9
y9
b10
y10
b11

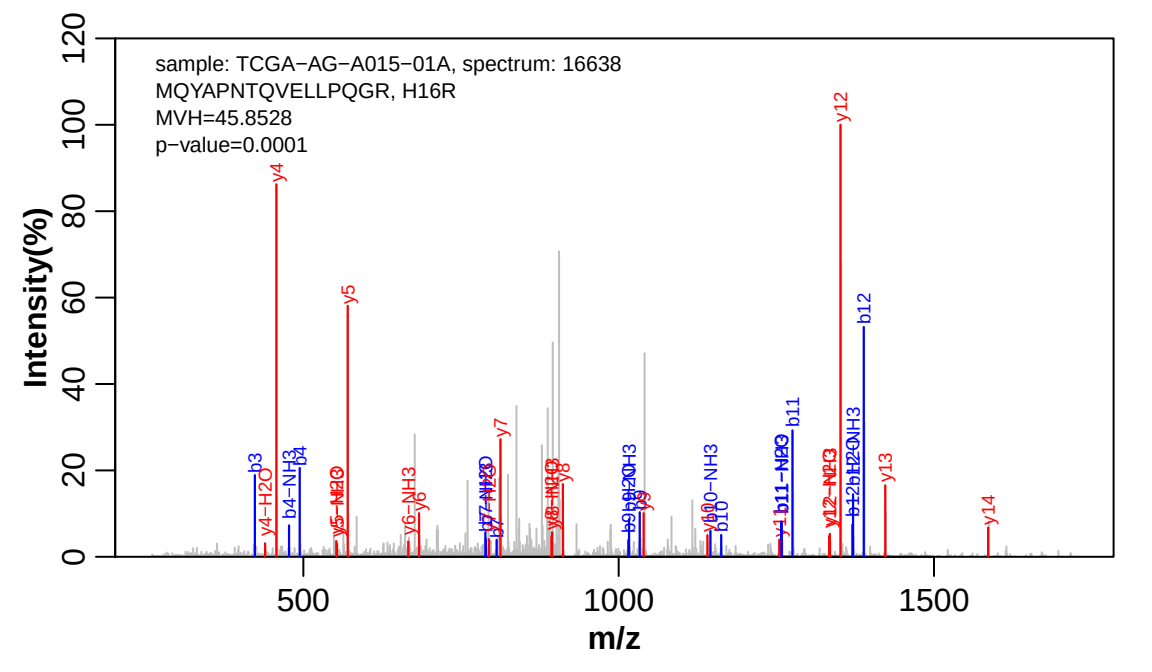

sample: TCGA−AG−A015−01A, spectrum: 31353
LLNLLADLVER, R4L
MVH=61.1708
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

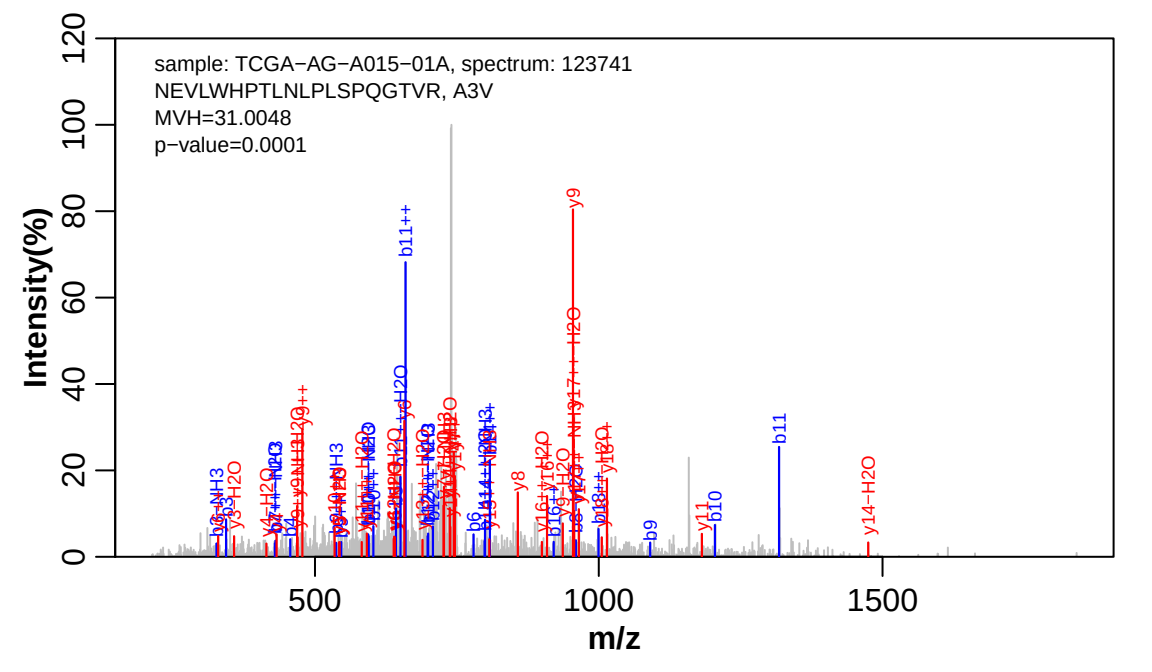

sample: TCGA−AG−A015−01A, spectrum: 27468
LLTQDEGPALVPGSR, G14S
MVH=43.1206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
y5
y6
y8
y9
y10
y11
b3
b6−H2O
b6
b7−NH3
b7
b8
b10
b11
b11−H2O

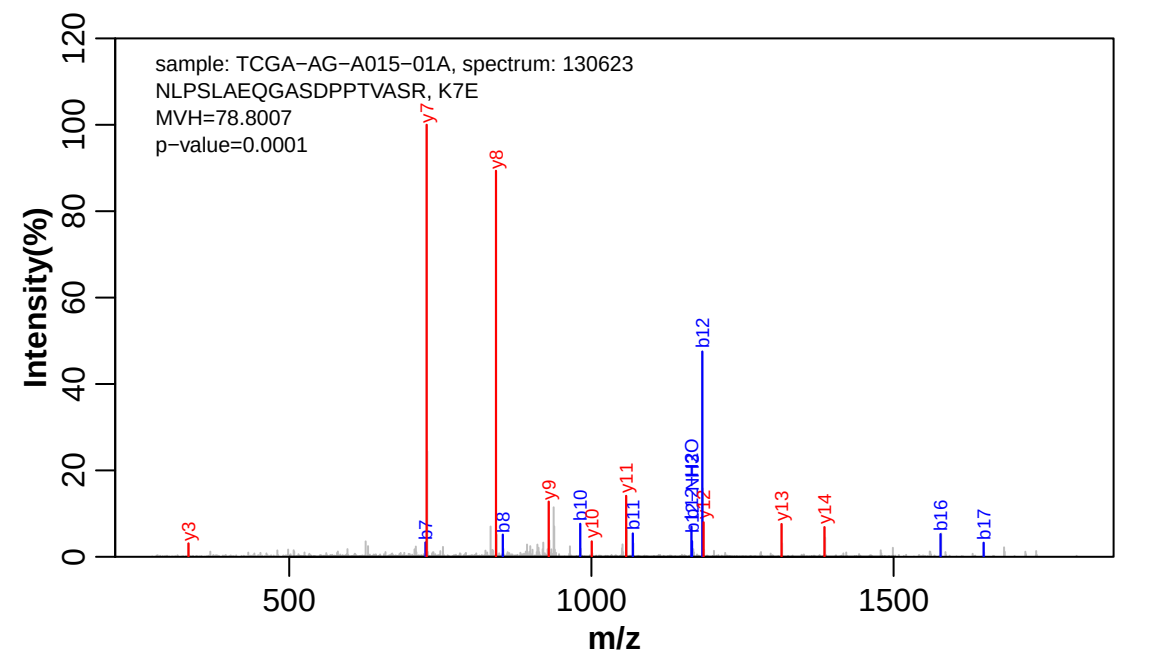

sample: TCGA−AG−A015−01A, spectrum: 109793
LQQQHSEQPPLQPSPVTTR, M17T
MVH=48.5914
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y11++
b12++
y7
b8
b8++
y5
y10
y8

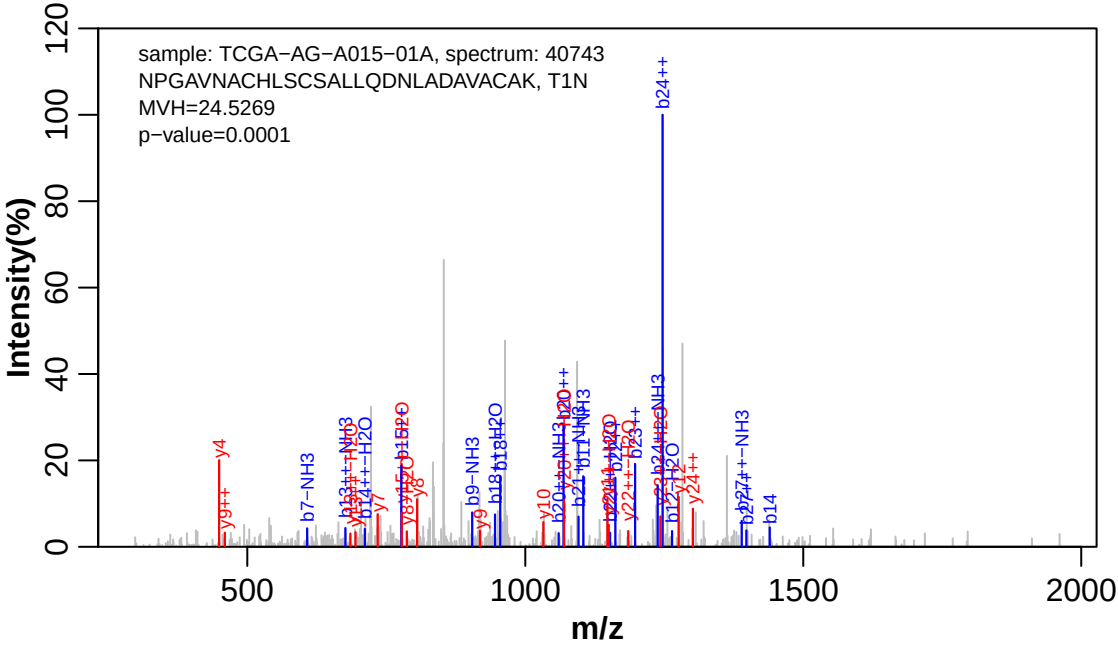

sample: TCGA−AG−A015−01A, spectrum: 26917
LSVATGALEAAQGSKPQCQTR, S16P
MVH=39.7175
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b4
b5−H2O
b6−H2O
y9++
y6
y14++
y16++
y17++
y18++
y8−NH3
y18++−H2O
y19++−H2O
y10

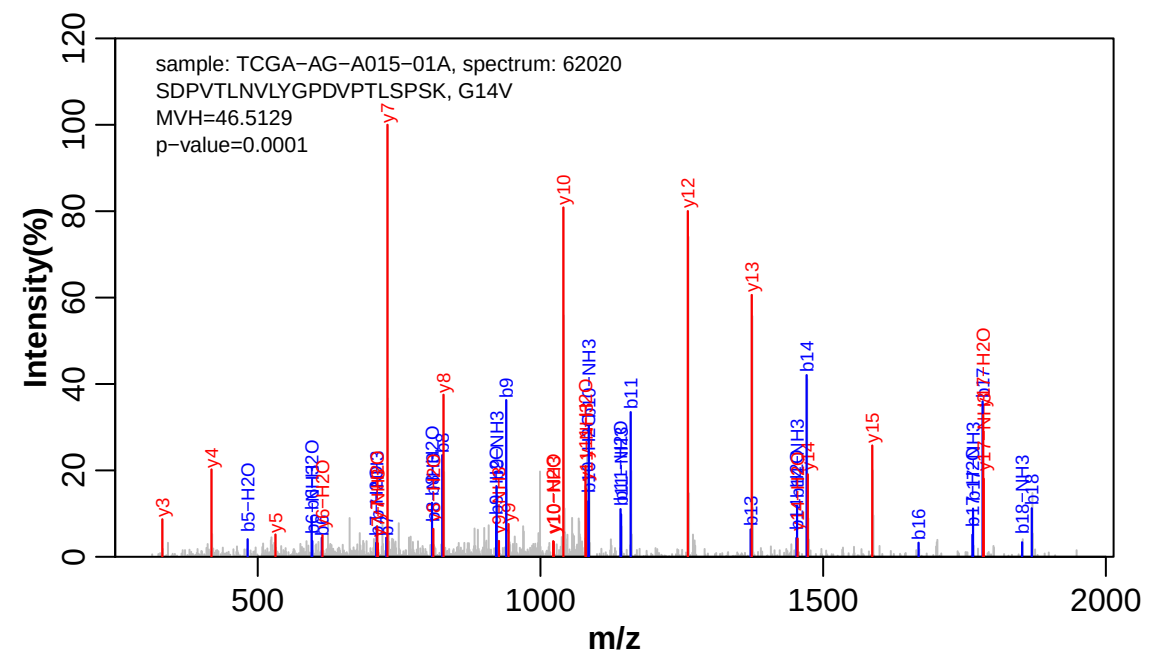

sample: TCGA−AG−A015−01A, spectrum: 6389
LVTDYTLAEADAALQK, E11D
MVH=58.8229
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y9
y6
y7
y10
y11
y3
y4
y5
y5−H2O
b5−H2O
b5
b8
y9−H2O
b11
b12−H2O
y12
b13−H2O
b13
y13
b14
y14
b15

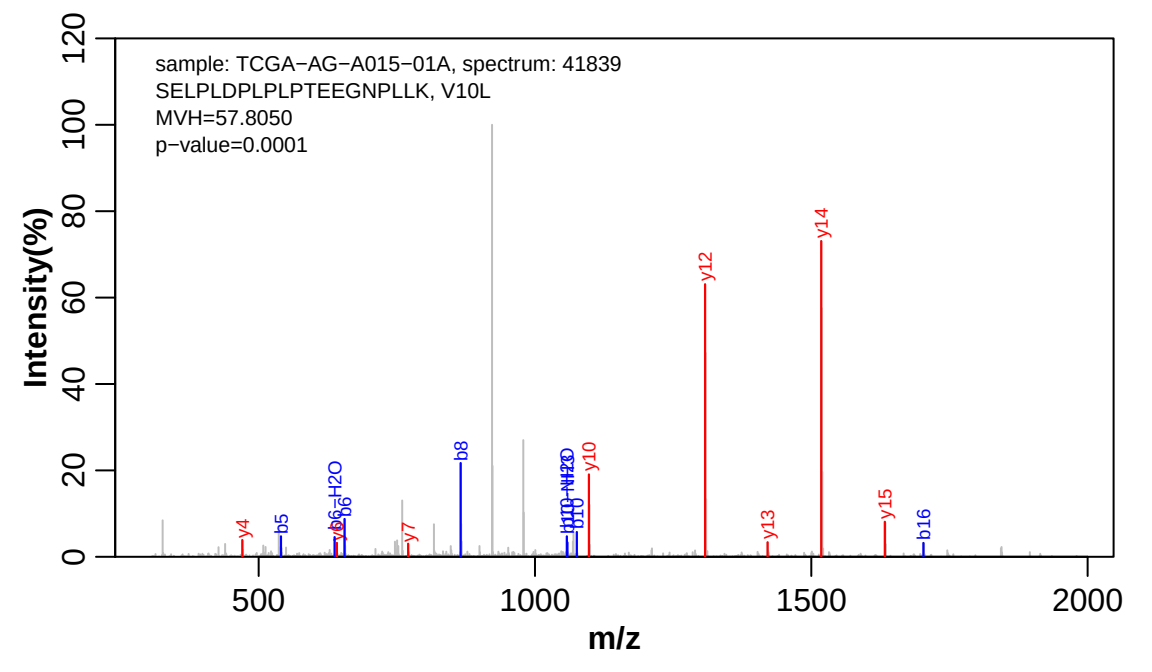

sample: TCGA−AG−A015−01A, spectrum: 16638
MQYAPNTQVELLPQGR, H16R
MVH=45.8528
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y12
b12
b11
y13
y14
b3
y4−H2O
b4
b4−NH3
y6−NH3
y6
y7
y8
y10−NH3
b10
y12−NH3
b12−H2O−NH3

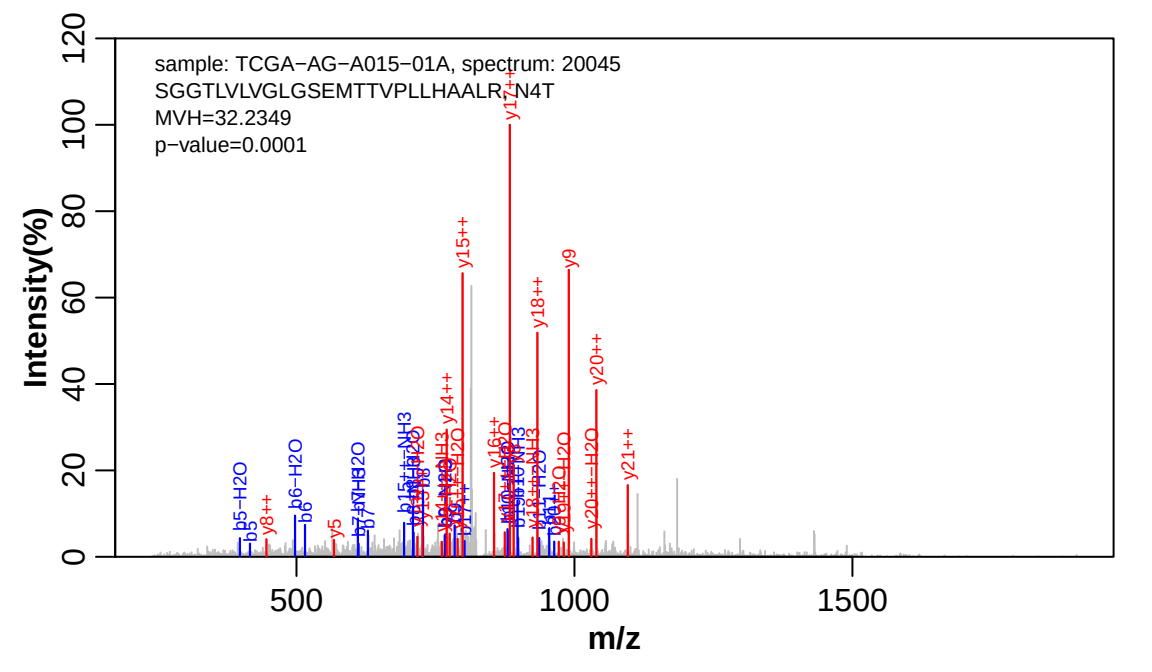

sample: TCGA−AG−A015−01A, spectrum: 123741
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=31.0048
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11++
y9
y8
b11
y14−H2O
b9
y11
b10

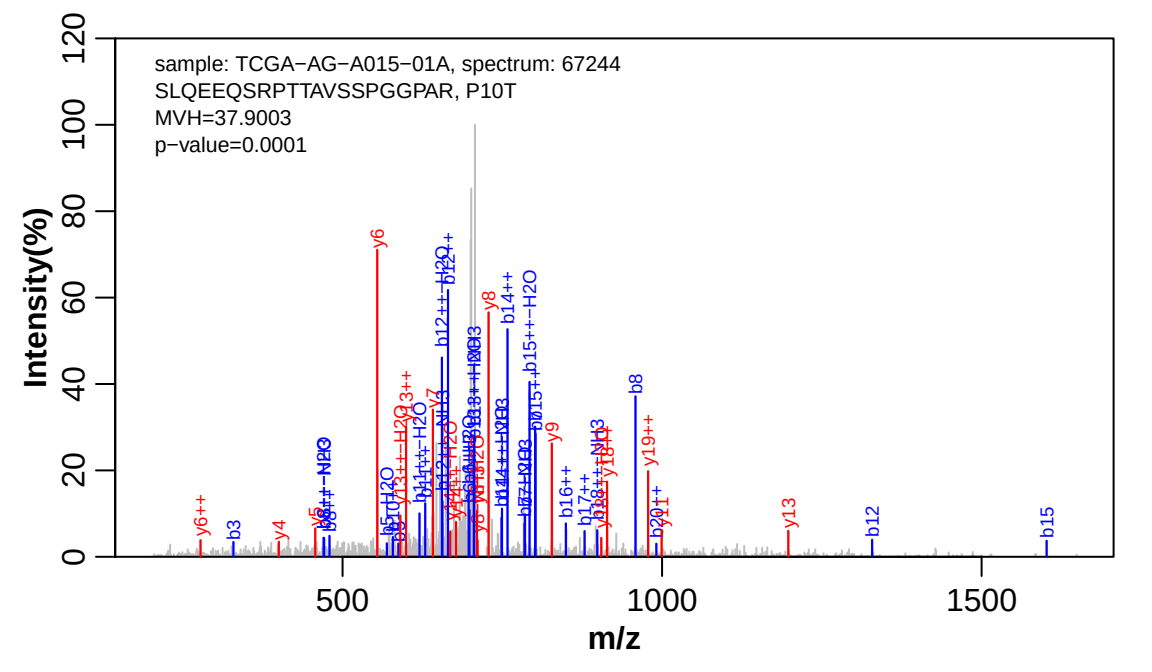

sample: TCGA−AG−A015−01A, spectrum: 130623
NLPSLAEQGASDPPTVASR, K7E
MVH=78.8007
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y7
y8
y3
b7
b8
y9
b10
y10
y11
b11
b12
y12
y13
y14
b16
b17

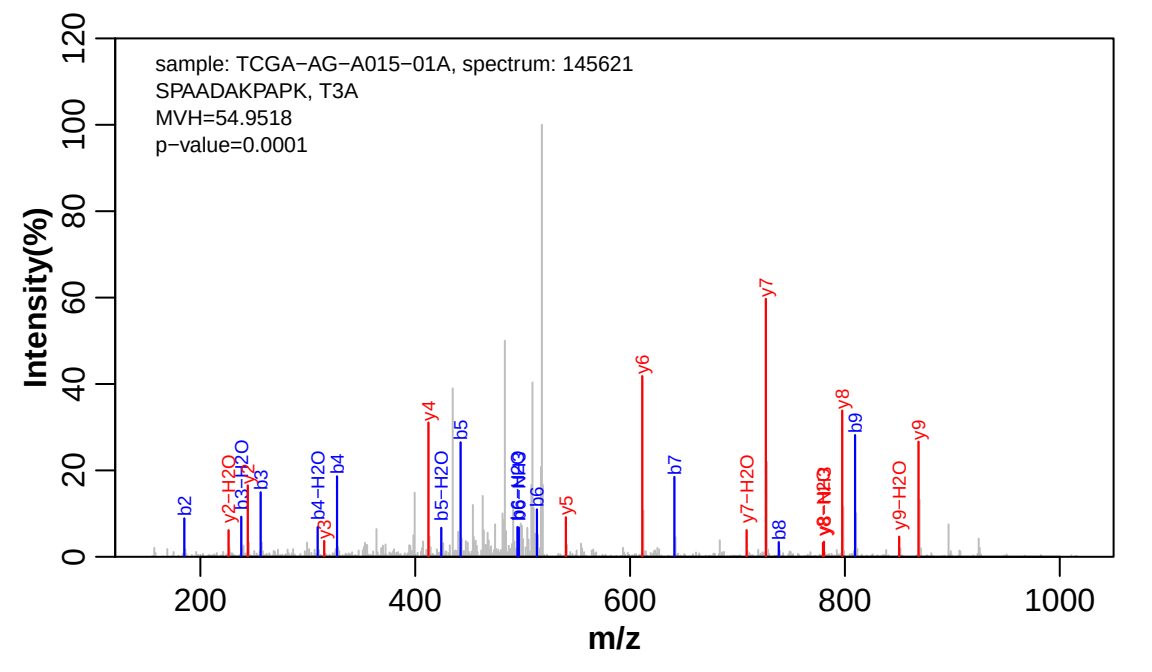

sample: TCGA−AG−A015−01A, spectrum: 40743
NPGAVNACHLSCSALLQDNLADAVACAK, T1N
MVH=24.5269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
y4
y9++
b7−NH3
b14++−H2O
y7
y8
y9
b9−NH3
b18
b18−H2O
y10
b21
b21−NH3
y24++
b27++−NH3
b14

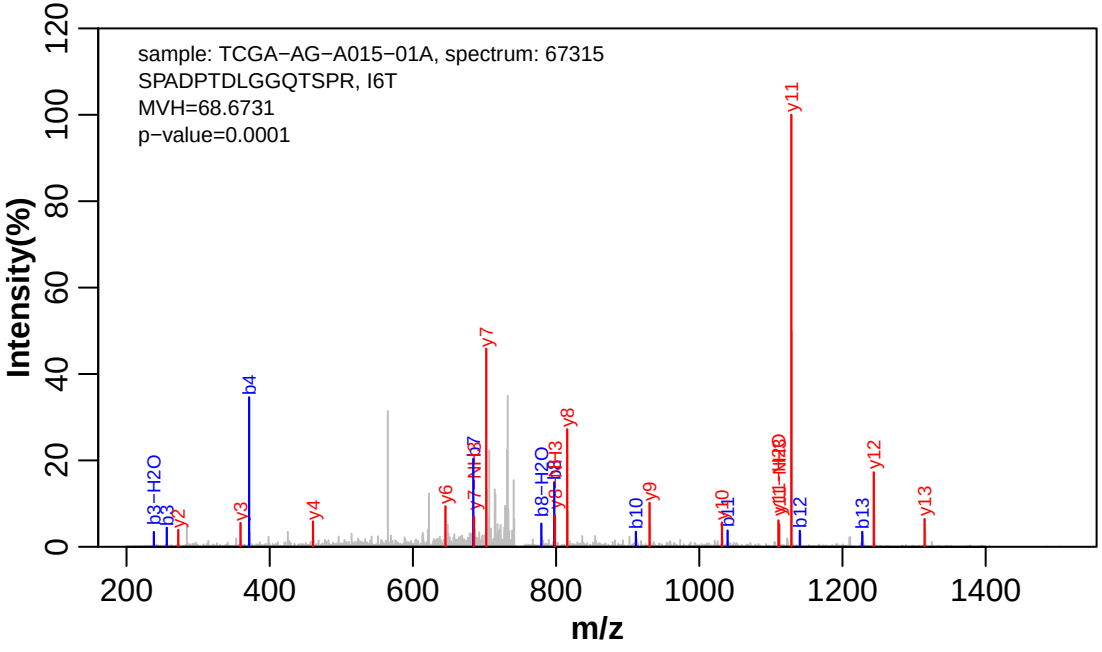

sample: TCGA−AG−A015−01A, spectrum: 62020
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=46.5129
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
b5−H2O
y5
y7
y8
b9
y10
y12
y13
b14
y15
b16
b18−NH3
b18
y10−NH3
b11
y14

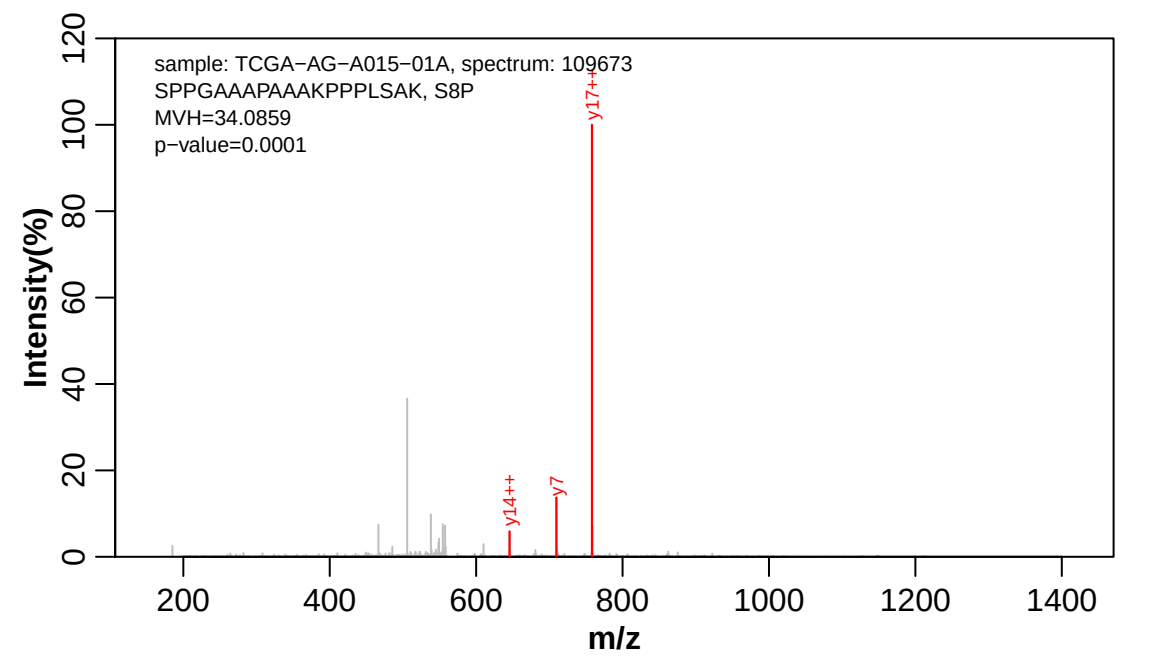

sample: TCGA−AG−A015−01A, spectrum: 41839
SELPLDPLPLPTEEGNPLLK, V10L
MVH=57.8050
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6−H2O
b6
y7
b8
y10
y12
y13
y14
y15
b16

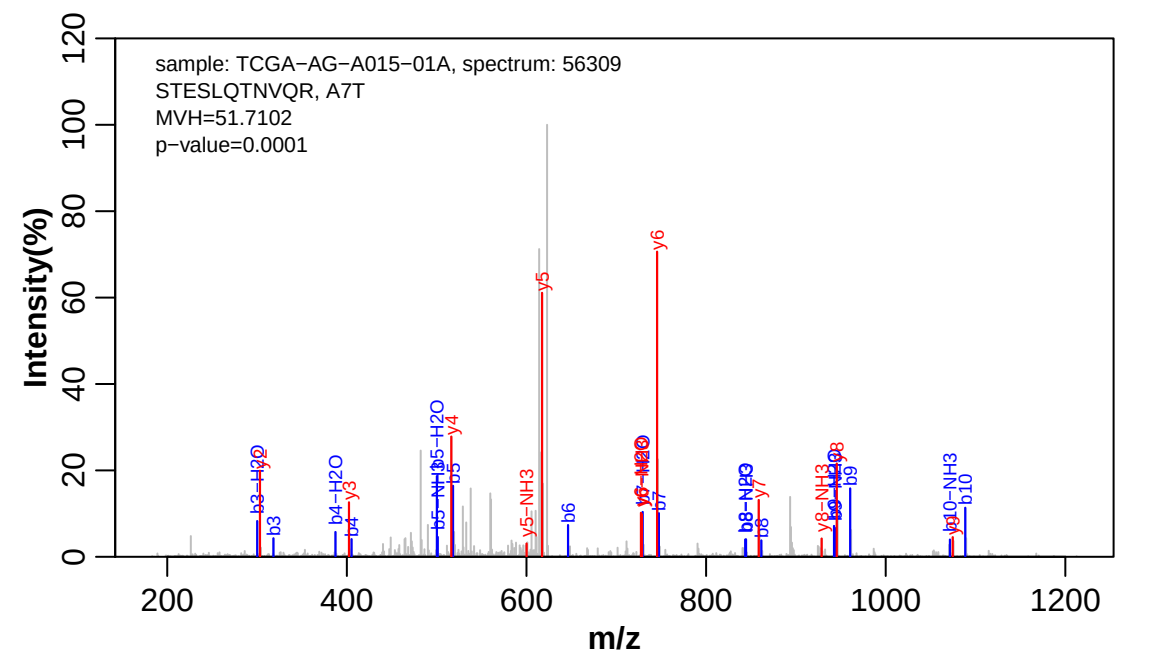

sample: TCGA−AG−A015−01A, spectrum: 20045
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=32.2349
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y21++
y14++
y8++
y5
b5−H2O
b6
b6−H2O

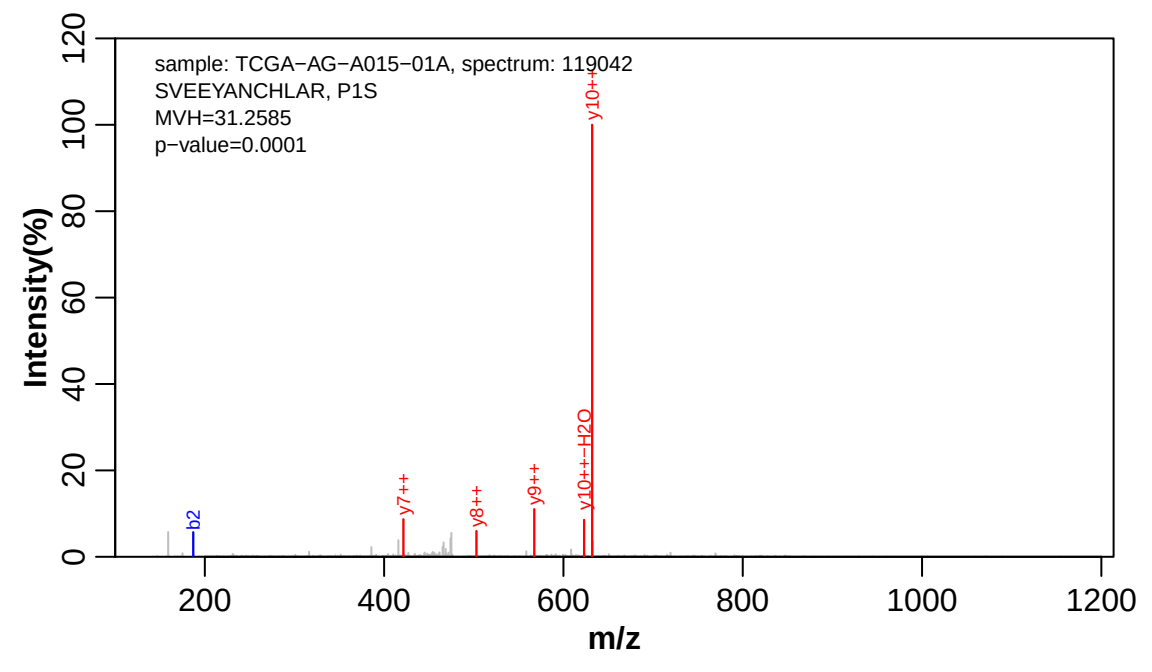

sample: TCGA−AG−A015−01A, spectrum: 67244
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=37.9003
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6++
b3
y4
y6
y6++−NH3
y6++−H2O
y6++−2H2O
y6++−3H2O
y6++−4H2O
y6++−5H2O
y6++−6H2O
y6++−7H2O
y6++−8H2O
y6++−9H2O
y6++−10H2O
y6++−11H2O
y6++−12H2O
y6++−13H2O
y6++−14H2O
y6++−15H2O
y6++−16H2O
y6++−17H2O
y6++−18H2O
y6++−19H2O
y6++−20H2O
y6++−21H2O
y6++−22H2O
y6++−23H2O
y6++−24H2O
y6++−25H2O
y6++−26H2O
y6++−27H2O
y6++−28H2O
y6++−29H2O
y6++−30H2O
y6++−31H2O
y6++−32H2O
y6++−33H2O
y6++−34H2O
y6++−35H2O
y6++−36H2O
y6++−37H2O
y6++−38H2O
y6++−39H2O
y6++−40H2O
y6++−41H2O

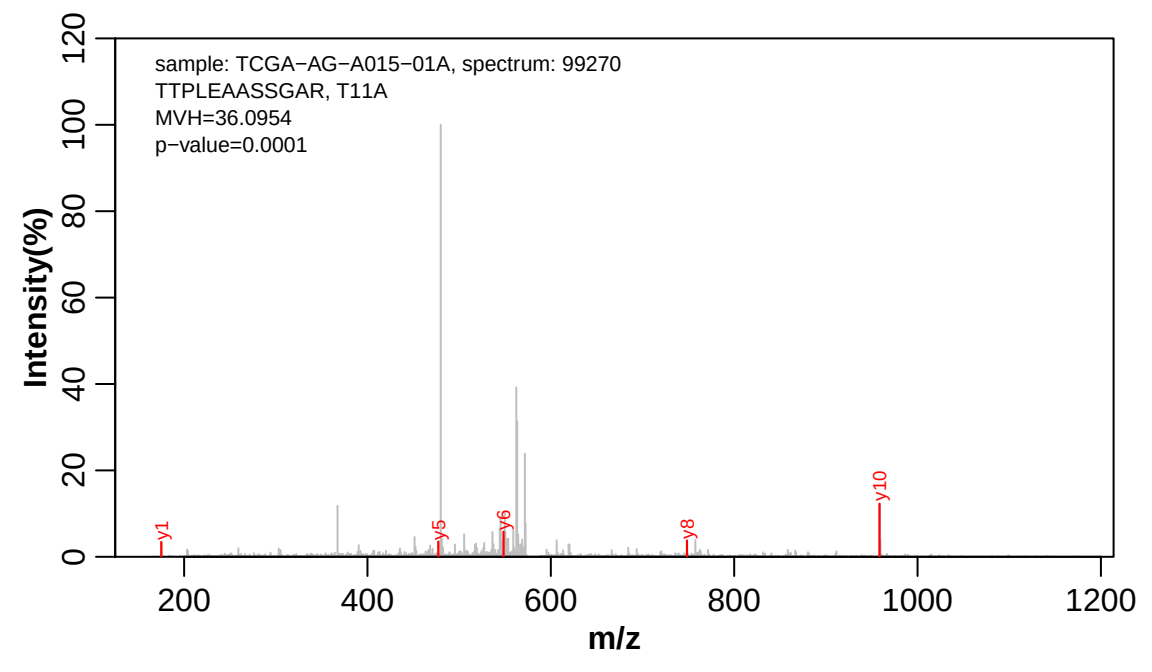

sample: TCGA−AG−A015−01A, spectrum: 145621
SPAADAKPAPK, T3A
MVH=54.9518
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2−H2O
b3−H2O
b3
b4−H2O
b4
y3
b5−H2O
y4
b5
b6−NH3
b6
y5
y6
b7
y7−H2O
y7
b8
y8−NH3
y8
b9
y9−H2O
y9

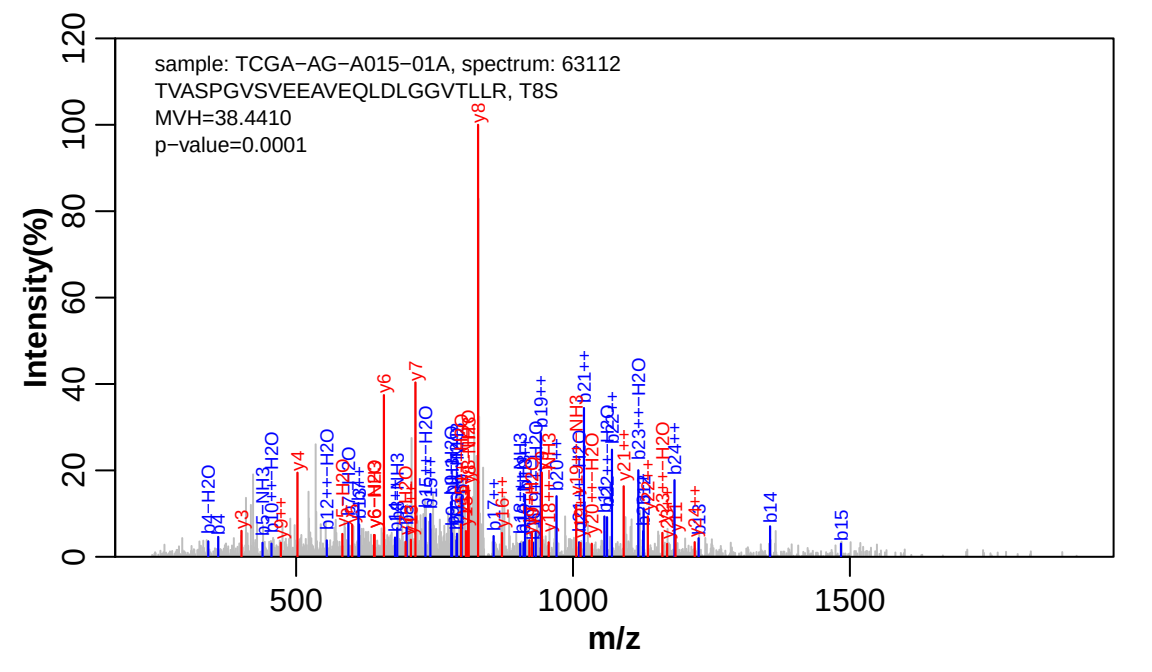

sample: TCGA−AG−A015−01A, spectrum: 67315
SPADPTDLGGQTSPR, I6T
MVH=68.6731
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y2
y3
b4
y4
y6
y7−NH3
y7
b8−H2O
y8
b8
b9
y9
b10
y10
b11
y11−NH3
y11
b12
y12
b13
y13

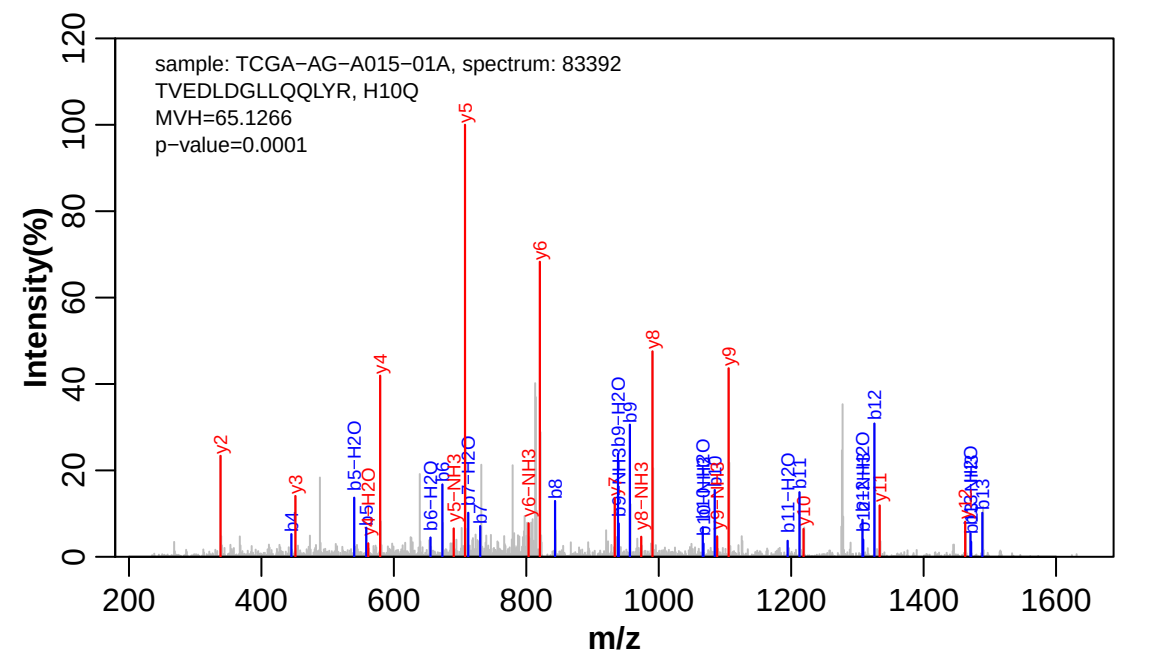

sample: TCGA−AG−A015−01A, spectrum: 109673
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.0859
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

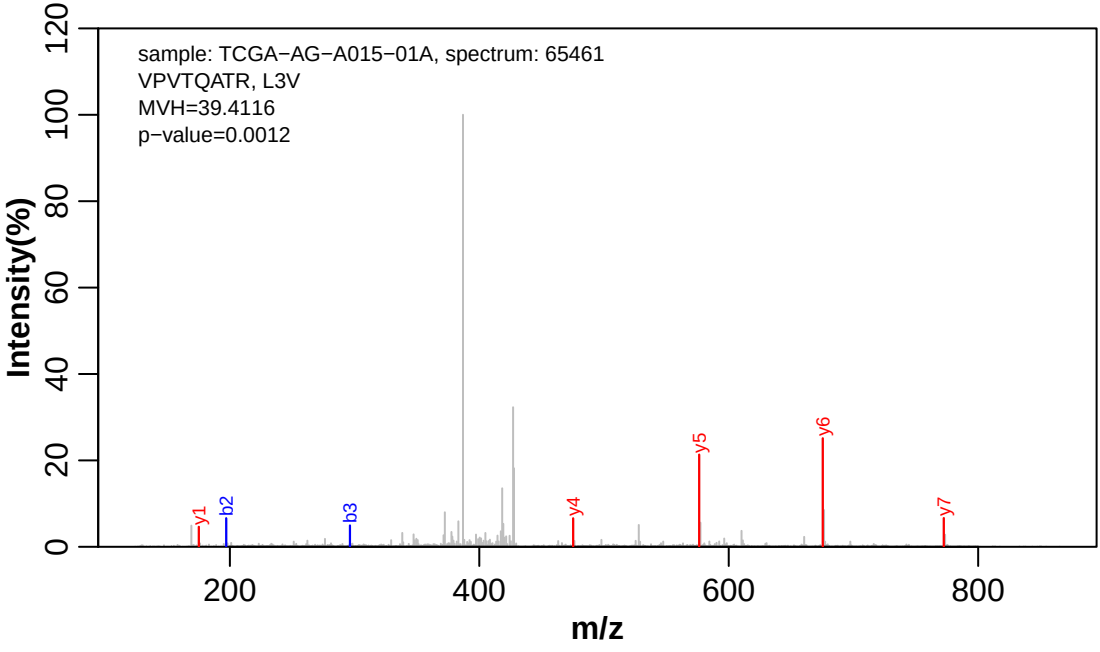

sample: TCGA−AG−A015−01A, spectrum: 56309
STESLQTNVQR, A7T
MVH=51.7102
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y5
y4
y3
y2
b3−H2O
b3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y5−NH3
b6
b7
y7
b8
b9
y8−NH3
b10−NH3
b10

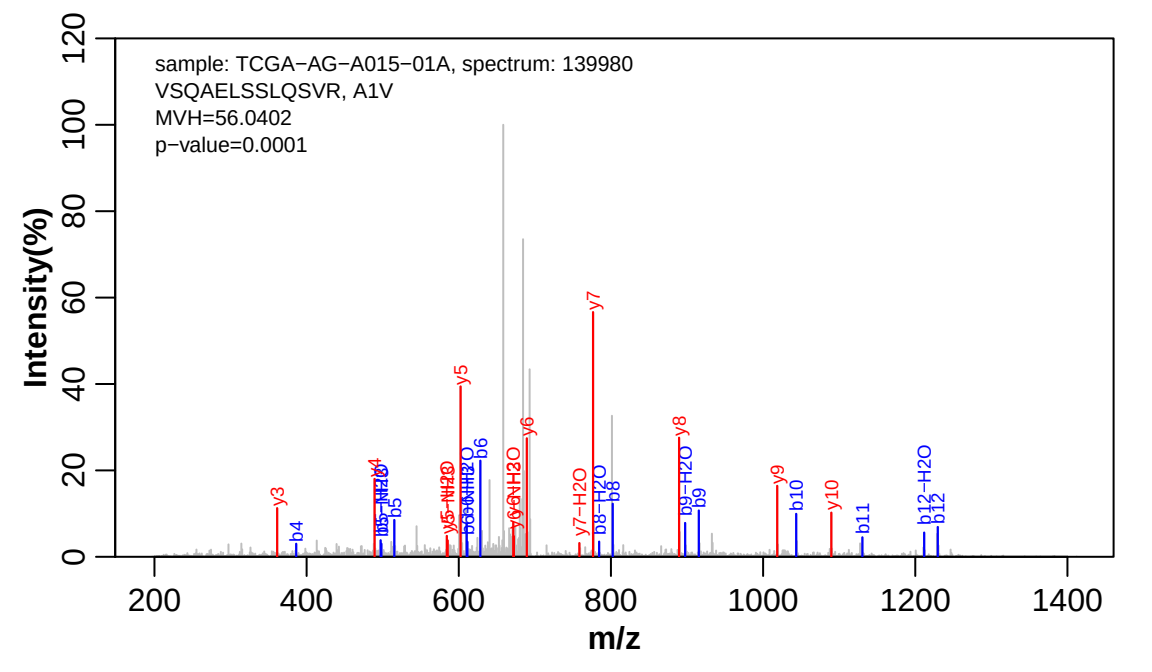

sample: TCGA−AG−A015−01A, spectrum: 119042
SVEEYANCHLAR, P1S
MVH=31.2585
p−value=0.0001
b2
y7++
y8++
y9++
y10++−H2O
y10++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

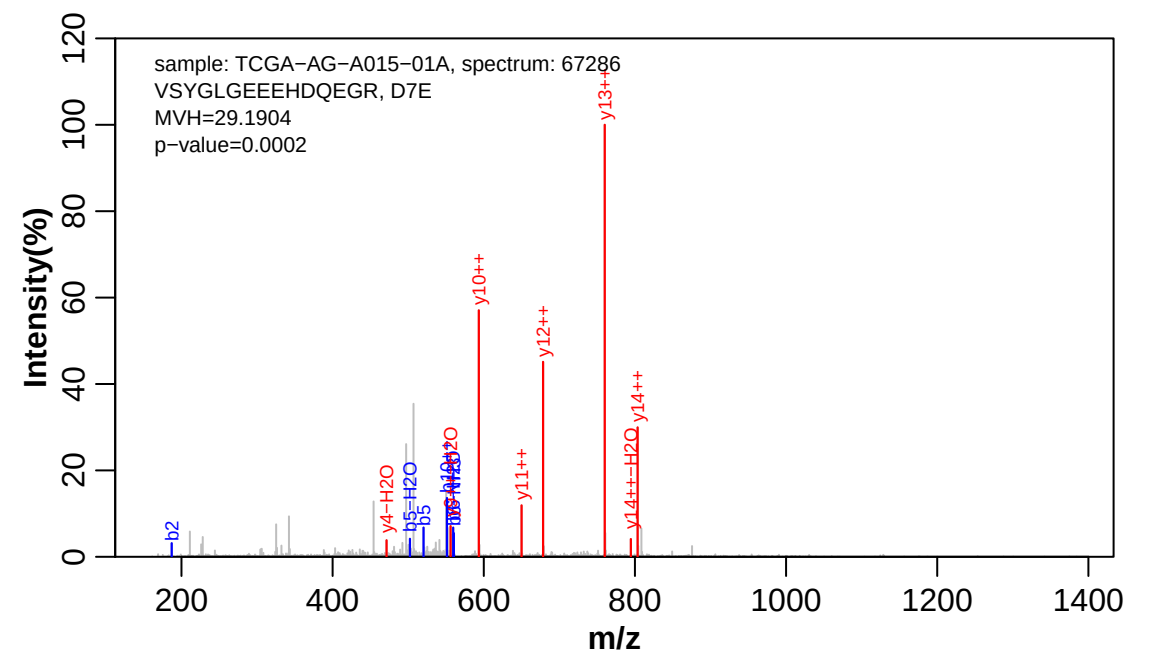

sample: TCGA−AG−A015−01A, spectrum: 99270
TTPLEAASSGAR, T11A
MVH=36.0954
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y1
y5
y6
y8
y10

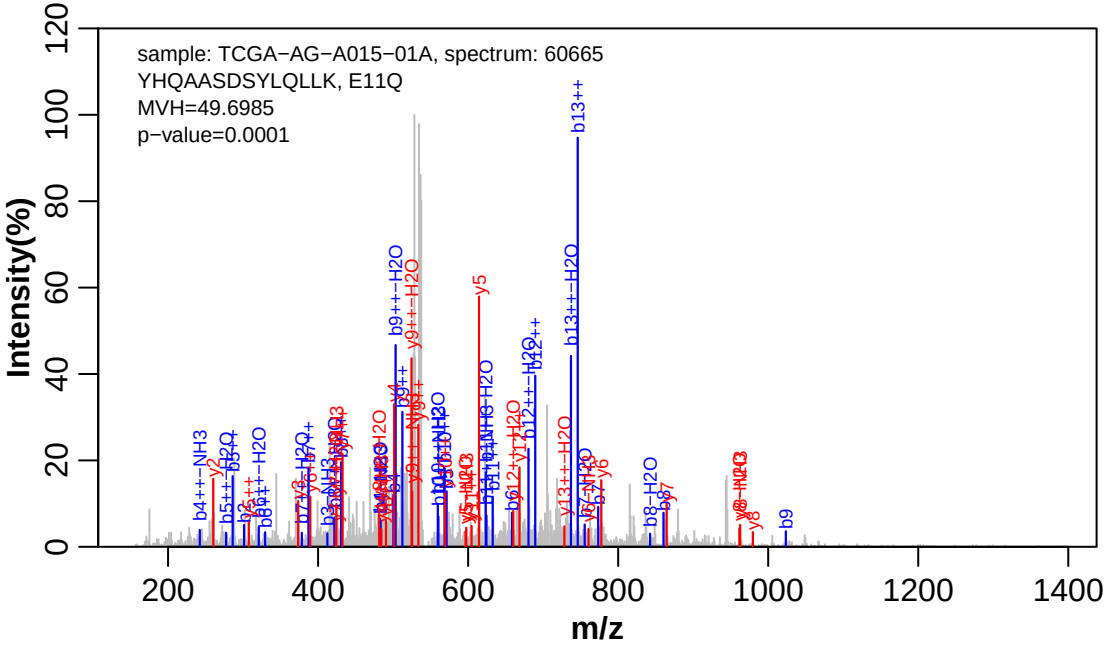

sample: TCGA−AG−A015−01A, spectrum: 63112
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=38.4410
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y6
y7
y4
y3
b4−H2O
b5−NH3
b10−H2O
b12++−H2O
b14
b15
b21++
b23++−H2O
b24++

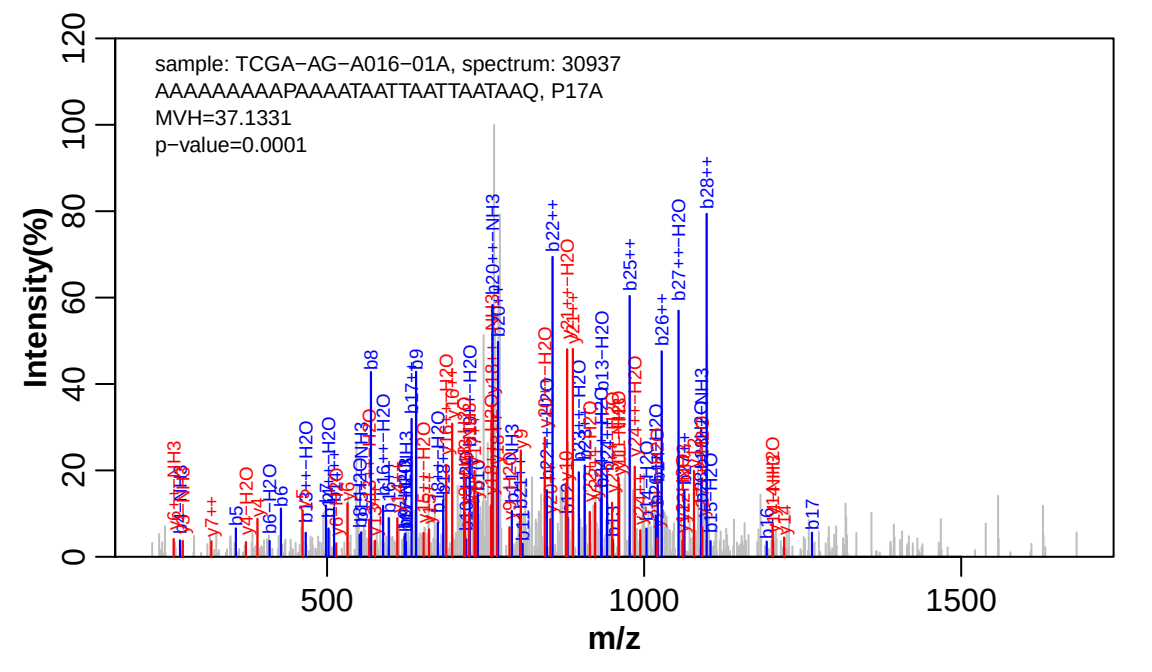

sample: TCGA−AG−A015−01A, spectrum: 83392
TVEDLDGLLQQLYR, H10Q
MVH=65.1266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
y9
y4
y2
y3
b12
b9
b5−H2O
b6−H2O
y5−NH3
b7−H2O
y6−NH3
b8
y8−NH3
b11−H2O
y10
b11
y11
b13
b4

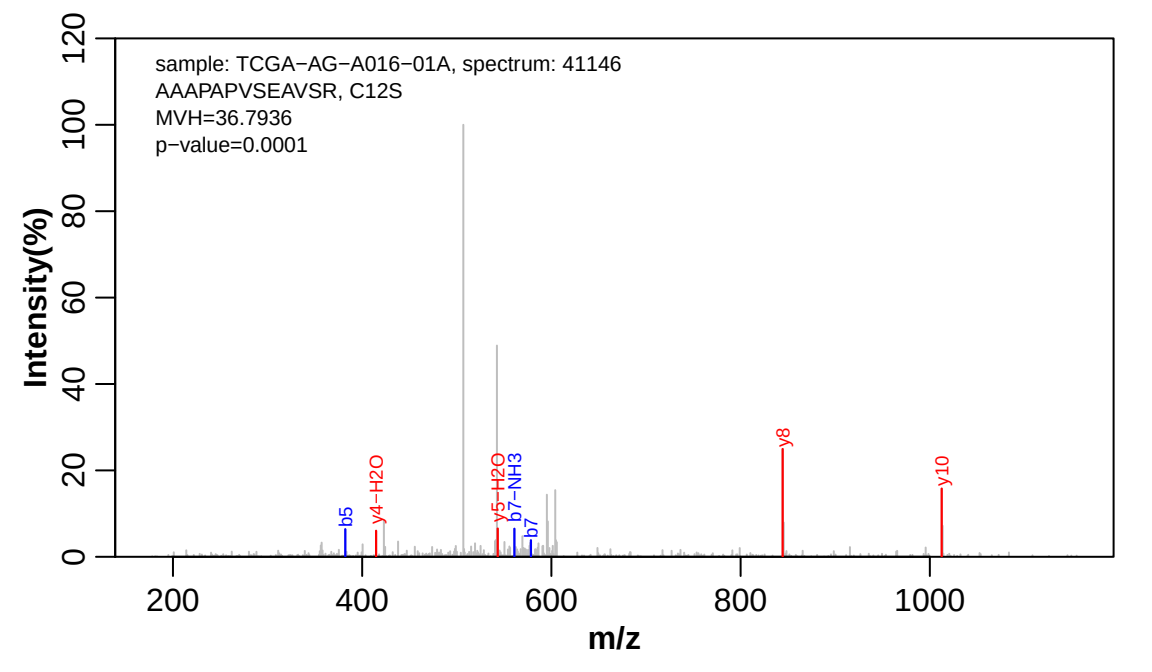

sample: TCGA−AG−A015−01A, spectrum: 65461
VPVTQATR, L3V
MVH=39.4116
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y4
y5
y6
y7

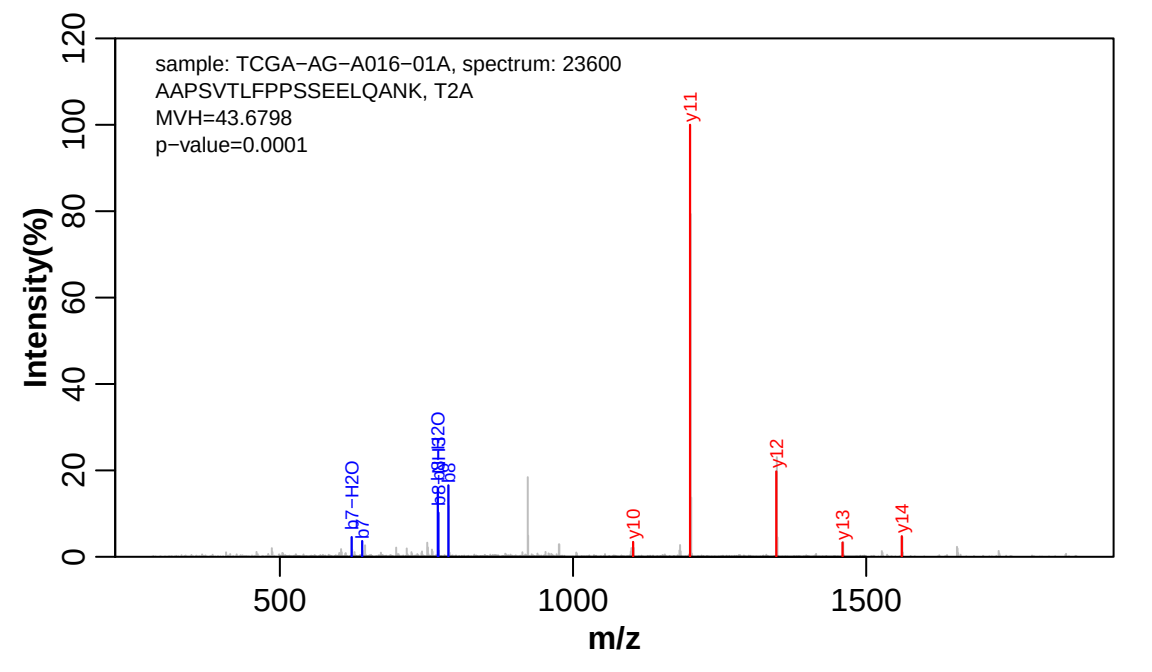

sample: TCGA−AG−A015−01A, spectrum: 139980
VSQAELSSLQSVR, A1V
MVH=56.0402
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4
y5
y6
y7
y7−H2O
b8−H2O
b8
y8
b9−H2O
b9
y9
b10
y10
b11
b12−H2O
b12

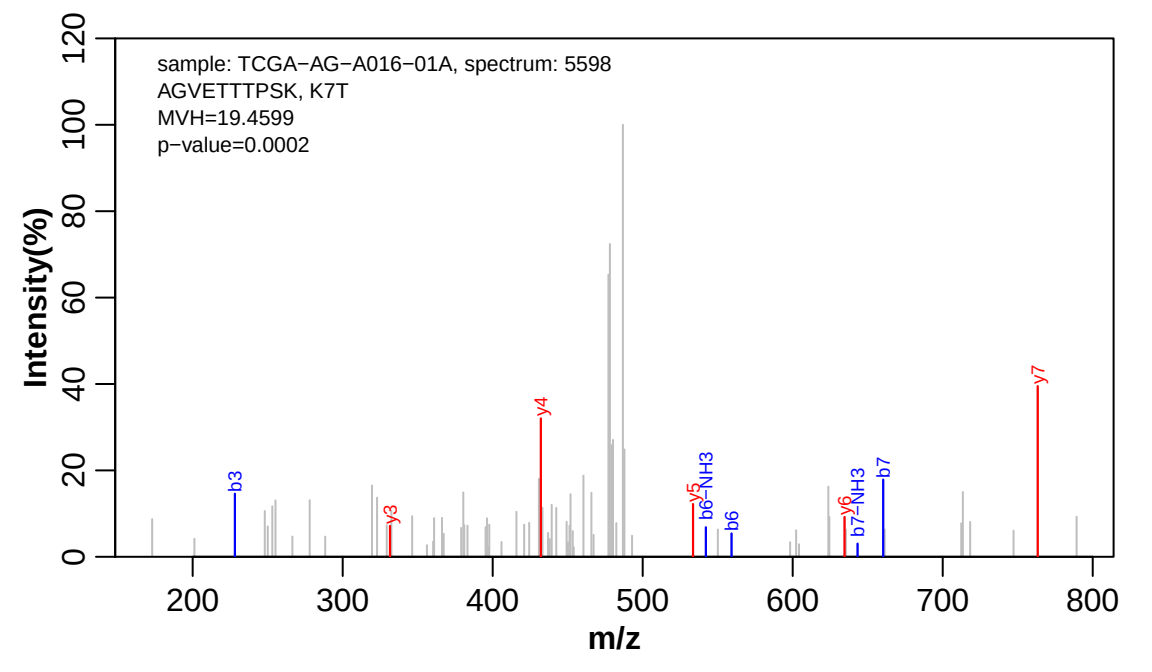

sample: TCGA−AG−A015−01A, spectrum: 67286
VSYGLGEEEHDQEGR, D7E
MVH=29.1904
p−value=0.0002
Intensity(%)
m/z
y13++
y10++
y12++
y14++
y14++−H2O
y11++
y4−H2O
b5−H2O
b5
b2
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

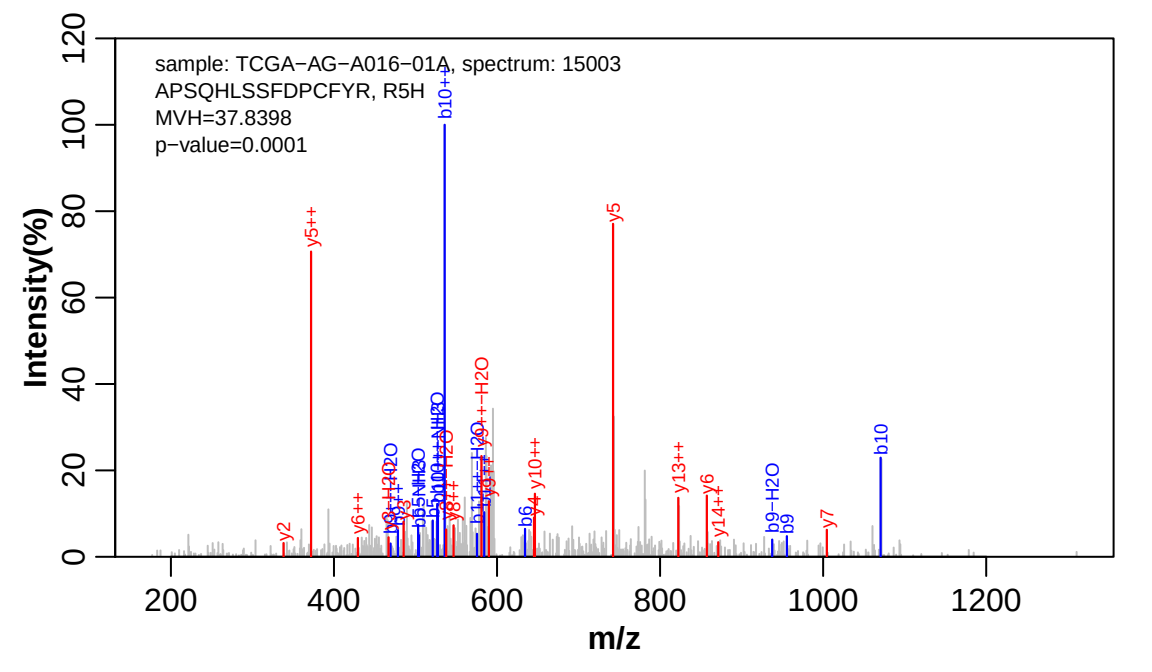

sample: TCGA−AG−A015−01A, spectrum: 60665
YHQAASDSYLQLLK, E11Q
MVH=49.6985
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b13++
b13++−H2O
y5
b9++−H2O
y9++−H2O
b12++−H2O
y13++−H2O
b4++−NH3
y2
b5++−H2O
b6++−H2O
b8++−H2O
b8−H2O
b9
y8
y8−NH3
y6

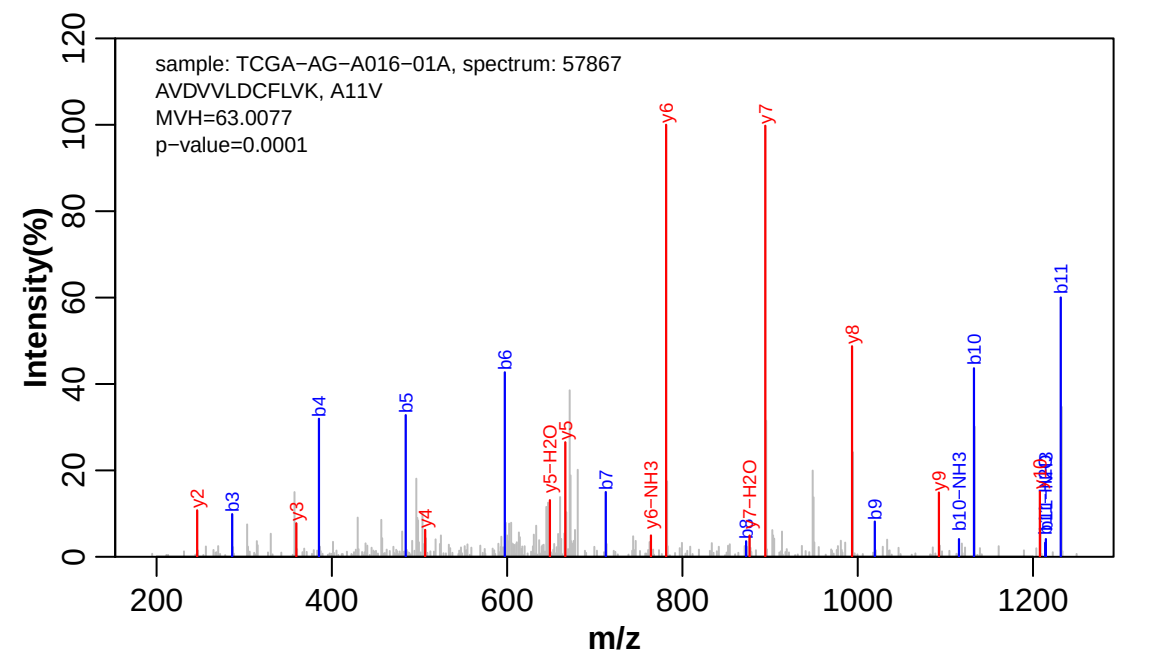

sample: TCGA−AG−A016−01A, spectrum: 30937
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.1331
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500

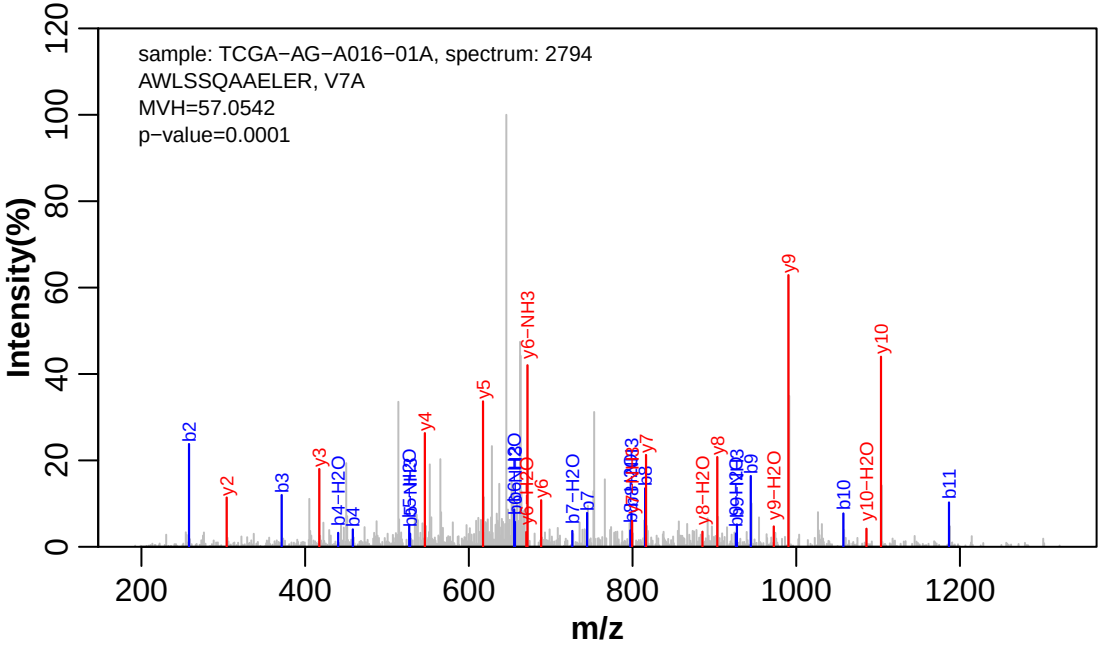

sample: TCGA−AG−A016−01A, spectrum: 41146
AAAPAPVSEAVSR, C12S
MVH=36.7936
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b5
y4−H2O
y5−H2O
b7−NH3
b7
y8
y10

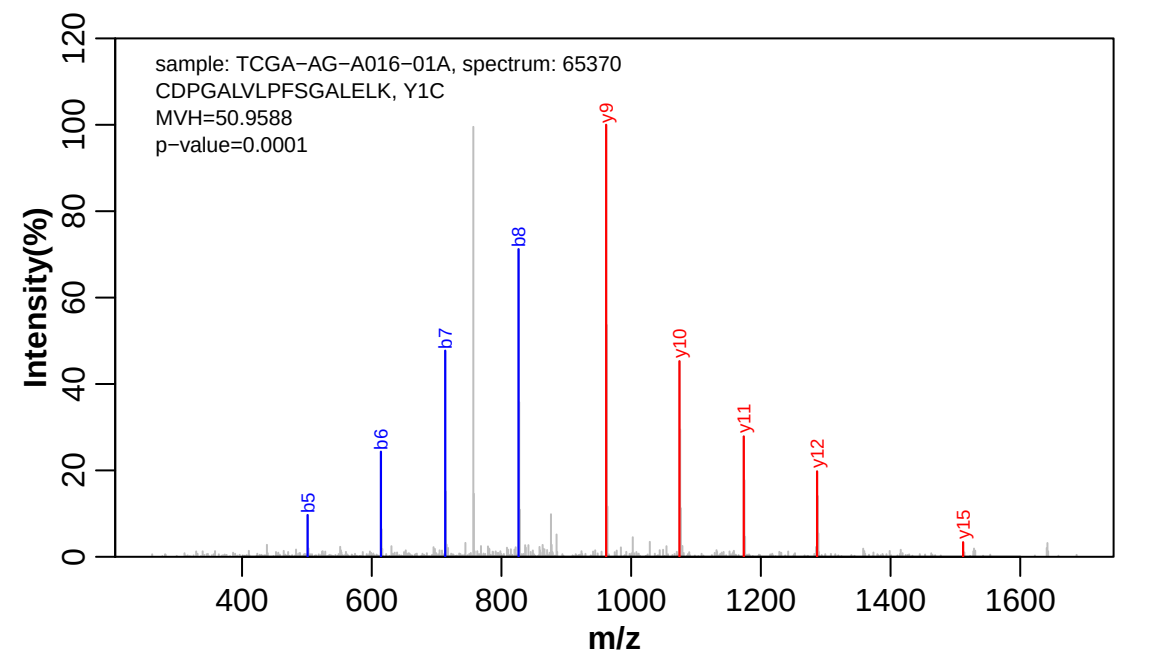

sample: TCGA−AG−A016−01A, spectrum: 23600
AAPSVTLFPPSSEELQANK, T2A
MVH=43.6798
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7−H2O
b7
b8−H2O
b8
y10
y11
y12
y13
y14

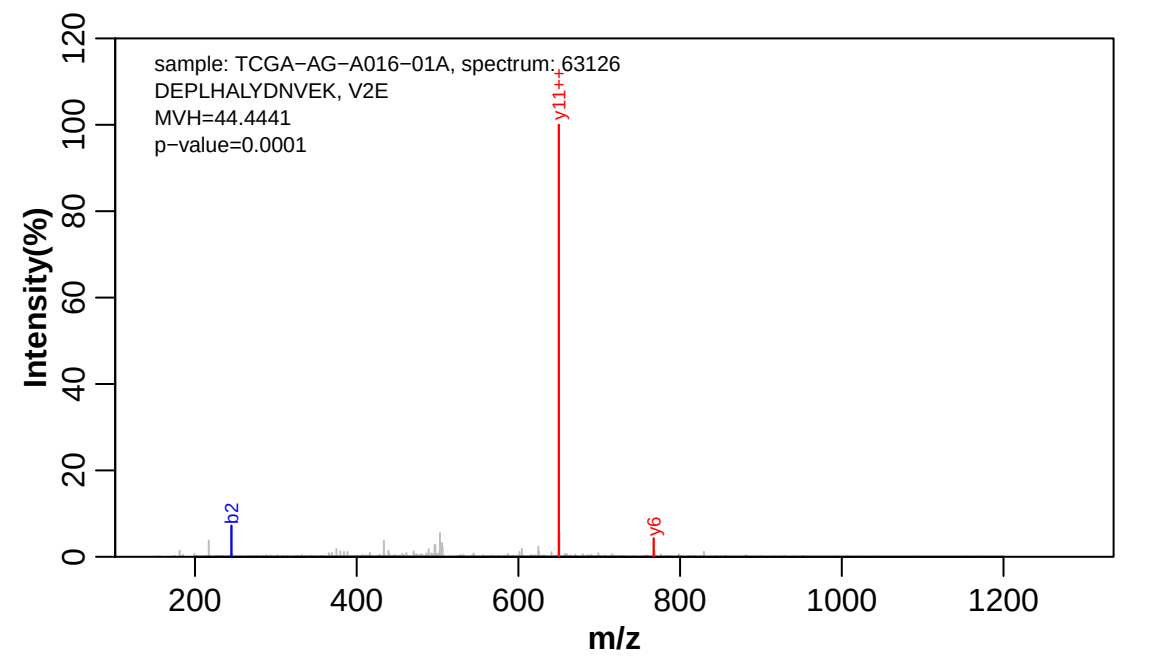

sample: TCGA−AG−A016−01A, spectrum: 5598
AGVETTTPSK, K7T
MVH=19.4599
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
800
m/z
b3
y3
y4
y5
b6−NH3
b6
y6
b7−NH3
b7
y7

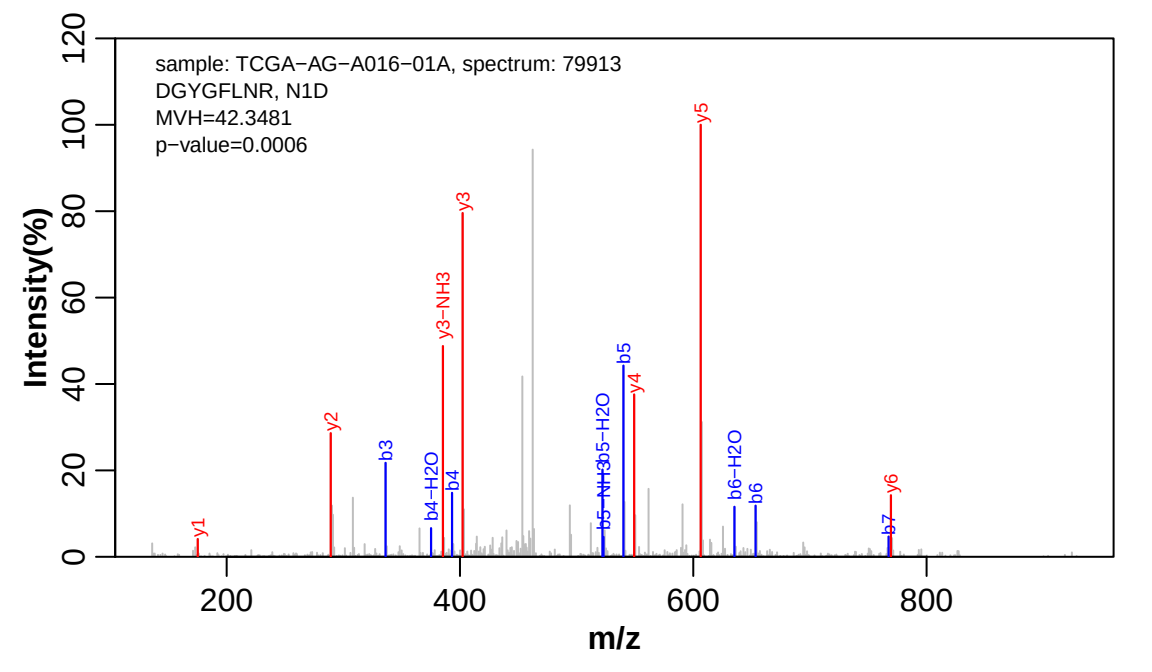

sample: TCGA−AG−A016−01A, spectrum: 15003
APSQHLSSFDPCFYR, R5H
MVH=37.8398
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b10++
y5++
y5
y2
y6++
y8++
y8++−H2O
y9++−H2O
y10++
y4
b6
y13++
y6
y14++
b9−H2O
b9
y7
b10

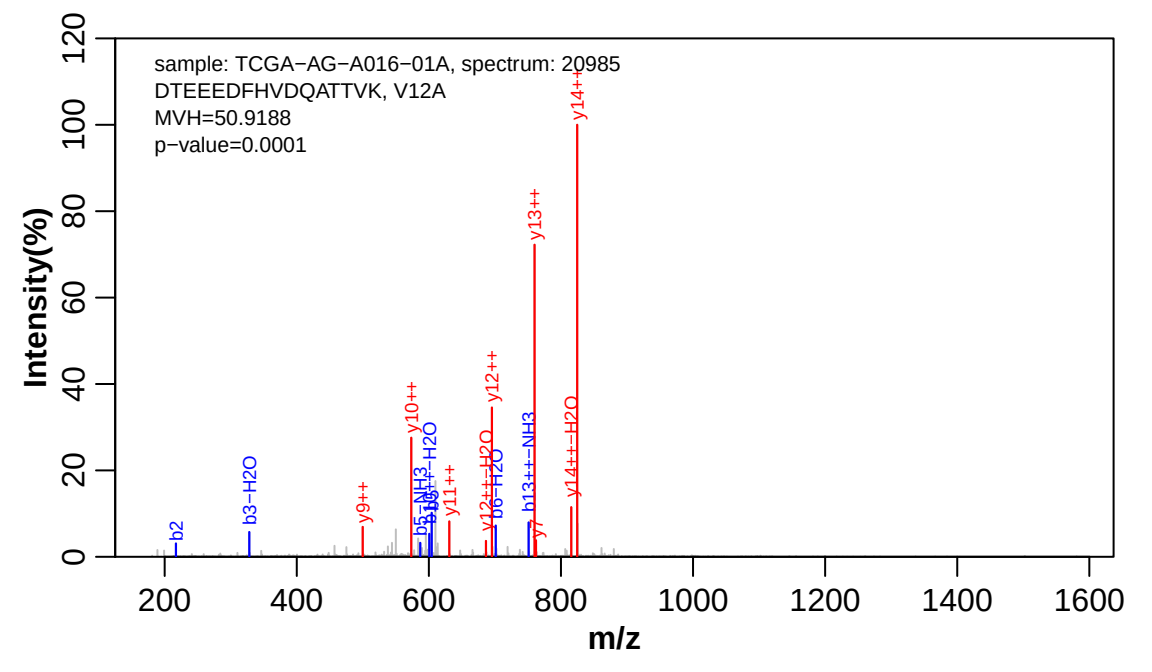

sample: TCGA−AG−A016−01A, spectrum: 57867
AVDVVLDCFLVK, A11V
MVH=63.0077
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3
b4
y4
b5
b6
y5−H2O
y5
b7
y6−NH3
y6
b7−H2O
y7
y8
b9
y9
b10−NH3
b10
b11−NH3
b11

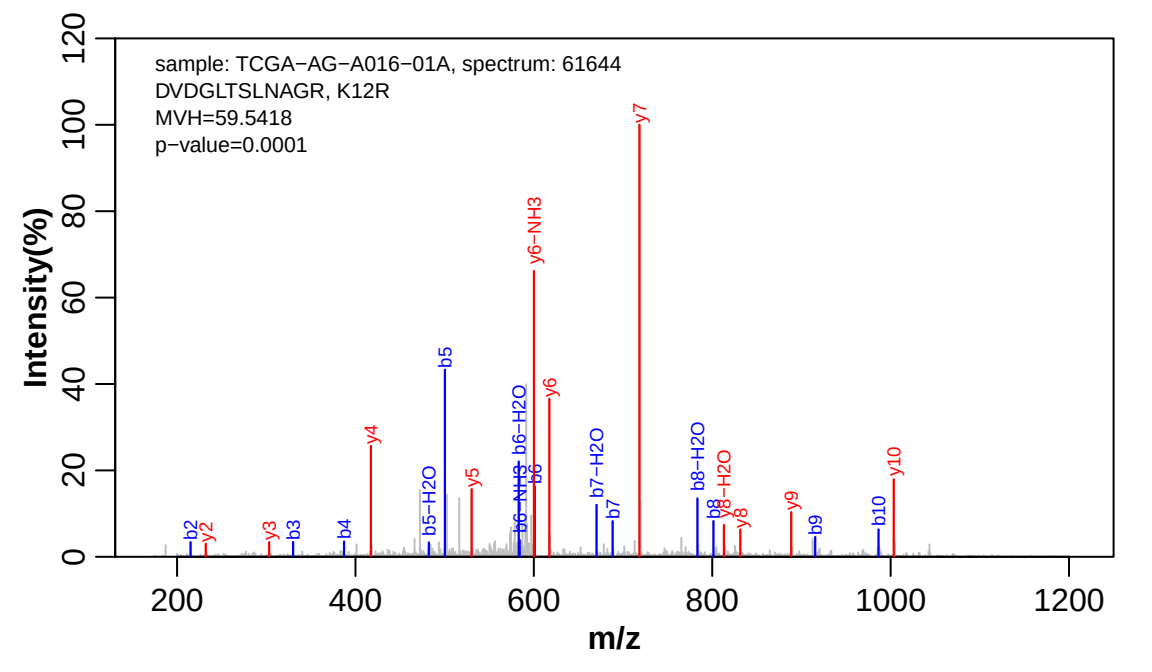

sample: TCGA−AG−A016−01A, spectrum: 2794
AWLSSQAAELER, V7A
MVH=57.0542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y6−NH3
y6
b7−H2O
b7
y7
y8
y8−H2O
b9
y9
y9−H2O
b10
y10
y10−H2O
b11

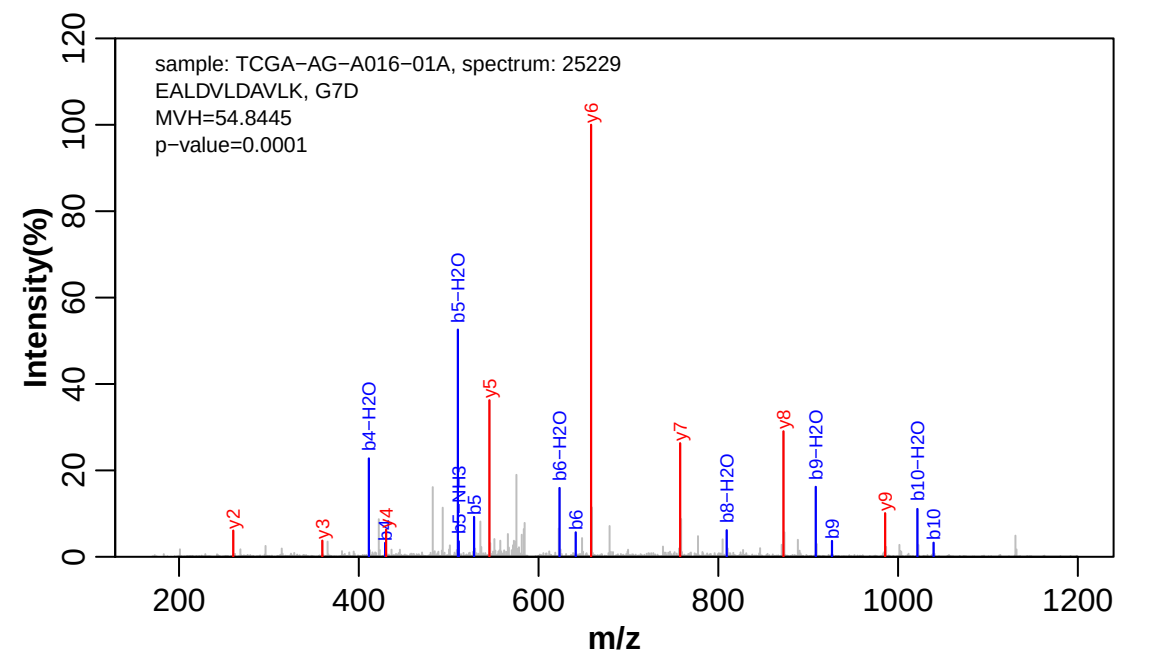

sample: TCGA−AG−A016−01A, spectrum: 65370
CDPGALVLPFSGALELK, Y1C
MVH=50.9588
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
m/z
b5
b6
b7
b8
y9
y10
y11
y12
y15

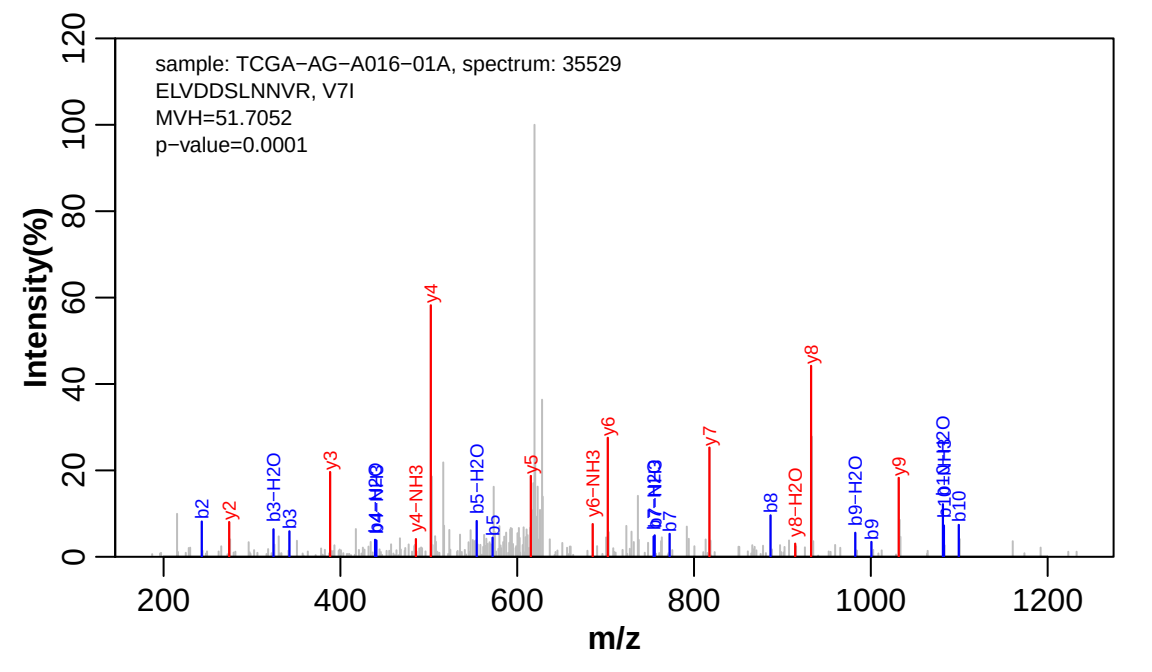

sample: TCGA−AG−A016−01A, spectrum: 63126
DEPLHALYDNVEK, V2E
MVH=44.4441
p−value=0.0001
y11++
b2
y6
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

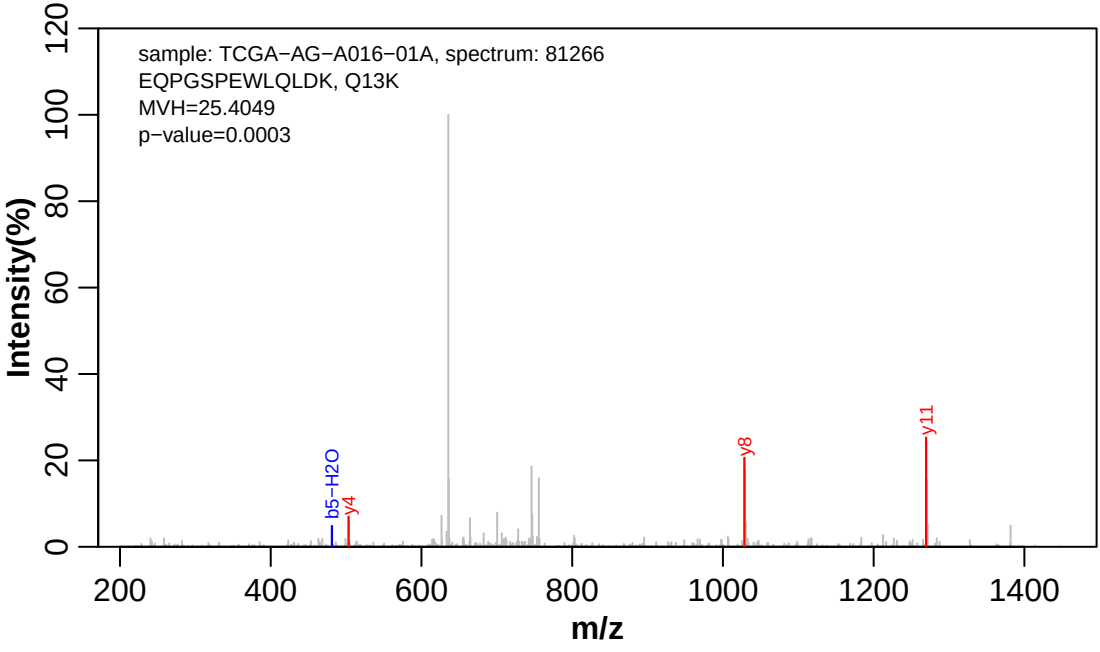

sample: TCGA−AG−A016−01A, spectrum: 79913
DGYGFLNR, N1D
MVH=42.3481
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

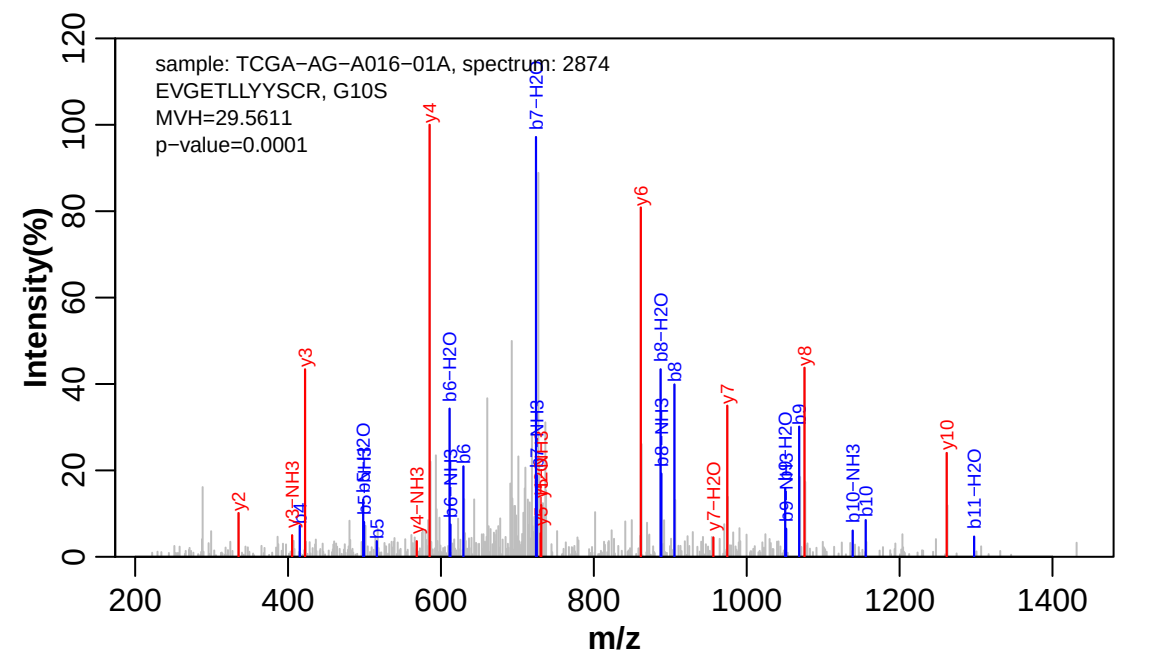

sample: TCGA−AG−A016−01A, spectrum: 20985
DTEEEDFHVDQATTVK, V12A
MVH=50.9188
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
y9++
b5−NH3
b5−H2O
y10++
y11++
y12++−H2O
b6−H2O
y12++
b13++−NH3
y7
y13++
y14++−H2O
y14++

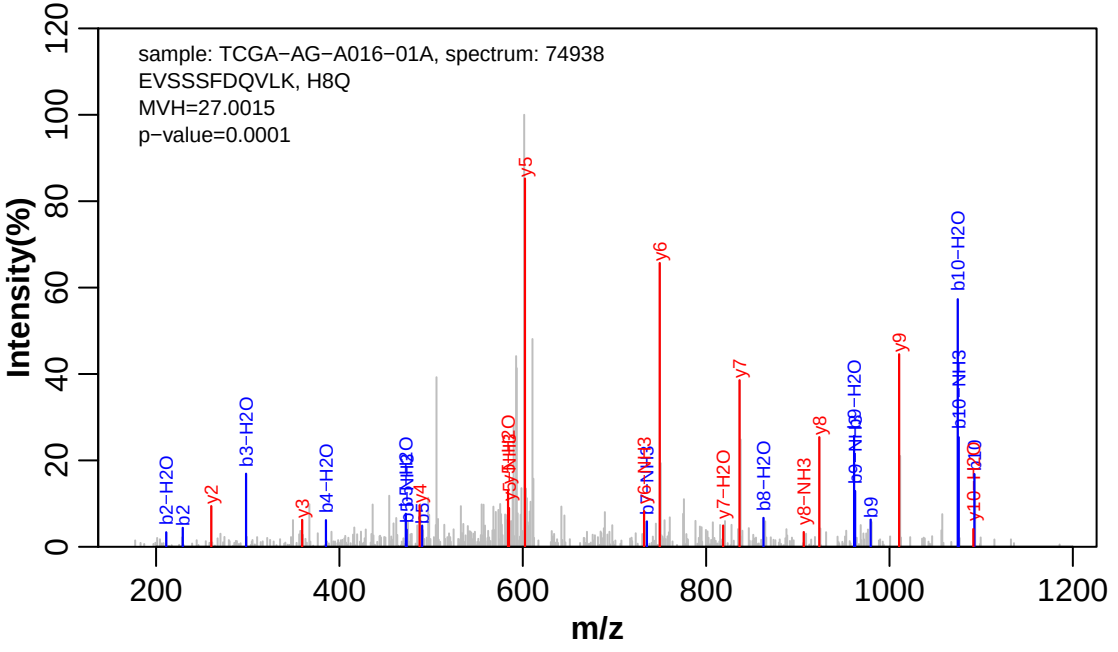

sample: TCGA−AG−A016−01A, spectrum: 61644
DVDGLTSLNAGR, K12R
MVH=59.5418
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−H2O
y8
y9
b9
b10
y10

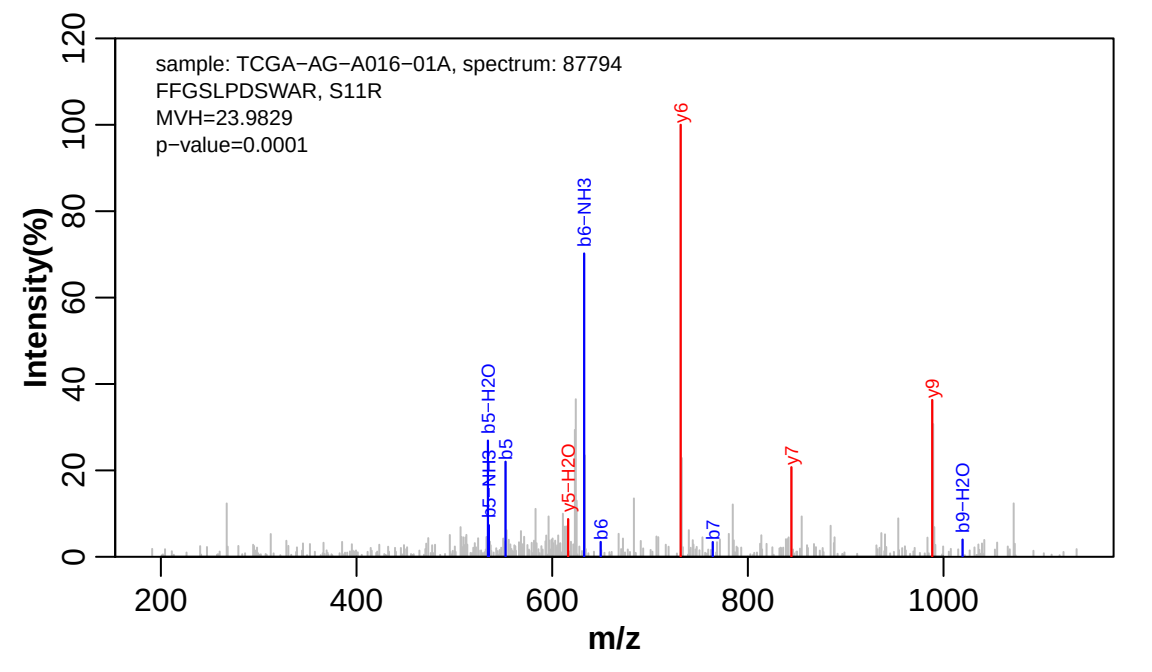

sample: TCGA−AG−A016−01A, spectrum: 25229
EALDVLDAVLK, G7D
MVH=54.8445
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−H2O
b4
b5−H2O
b5−NH3
b5
y5
y6
b6−H2O
b6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O
b10

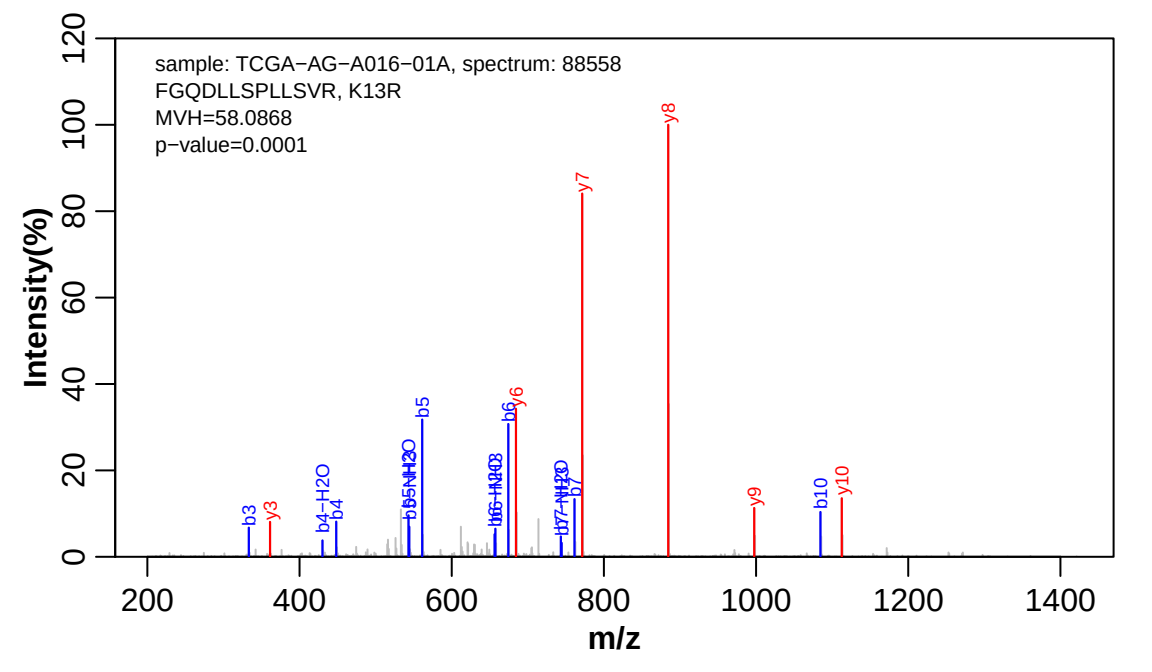

sample: TCGA−AG−A016−01A, spectrum: 35529
ELVDDSLNNVR, V7I
MVH=51.7052
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
y4−NH3
y4
b5−H2O
b5
y5
y6−NH3
y6
y7
b8
y8−H2O
y8
b9−H2O
b9
y9
b10
b10−H2O

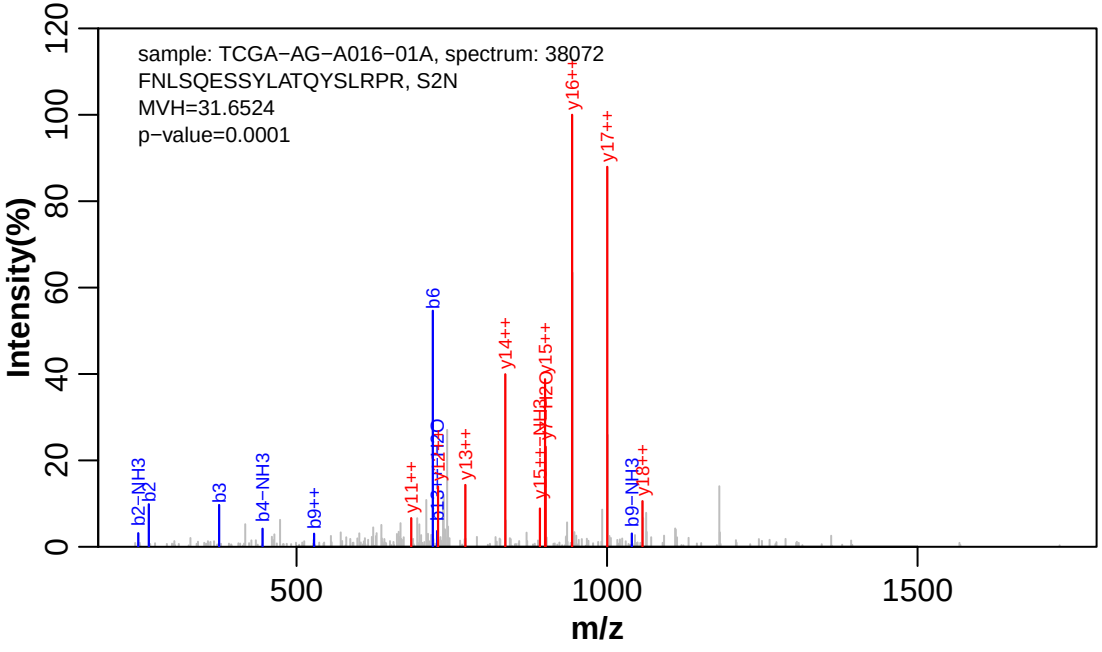

sample: TCGA−AG−A016−01A, spectrum: 81266
EQPGSPEWLQLDK, Q13K
MVH=25.4049
p−value=0.0003
b5−H2O
y4
y8
y11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

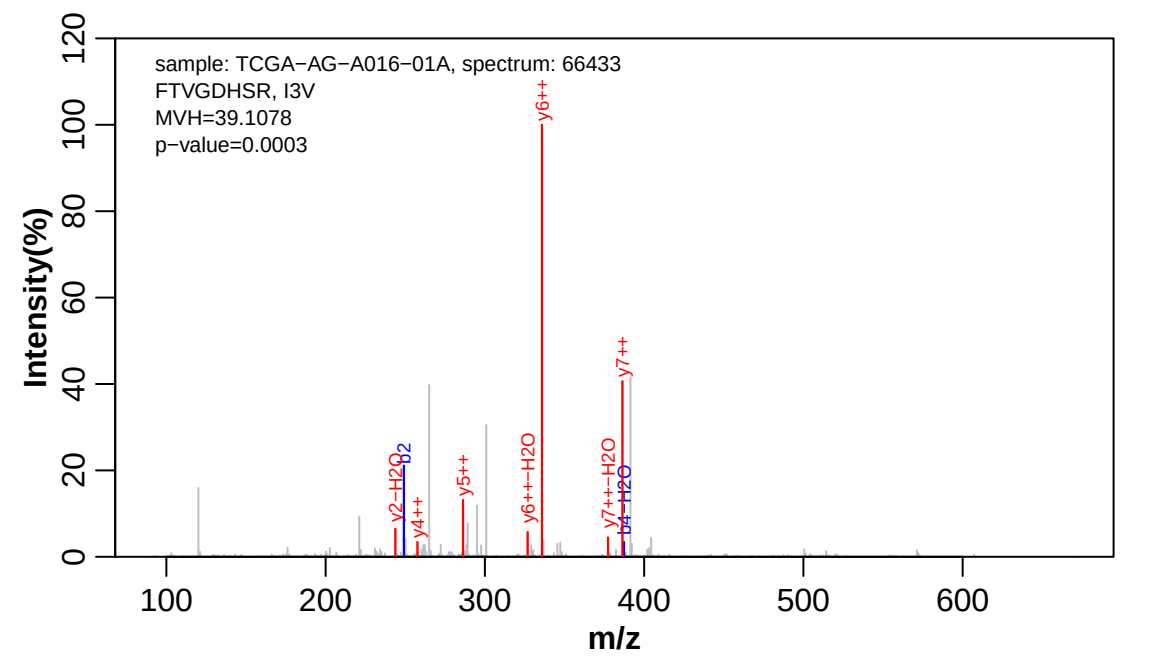

sample: TCGA−AG−A016−01A, spectrum: 2874
EVGETLLYYSCR, G10S
MVH=29.5611
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b7−H2O
y6
y3
b8−H2O
b6−H2O
b8
y8
y7
b9
y10
y2
y3−NH3
b5−H2O
b5
y4−NH3
b6−NH3
b6
b8−NH3
y7−H2O
b9−NH3
b9−H2O
b10−NH3
b10
b11−H2O

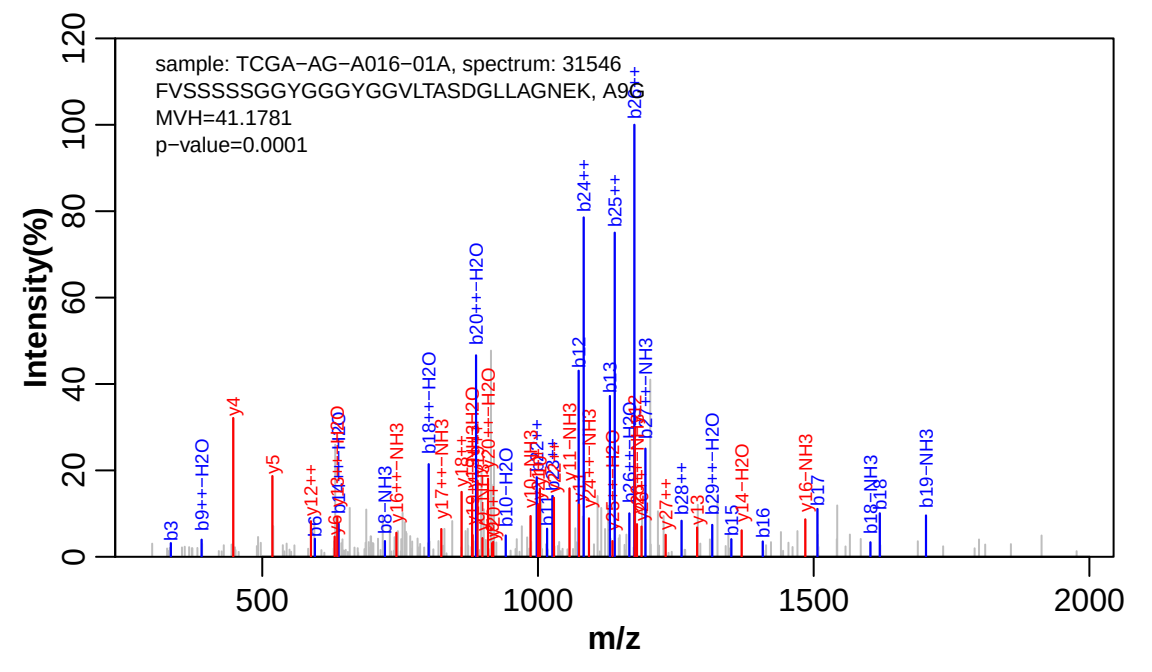

sample: TCGA−AG−A016−01A, spectrum: 74938
EVSSSFDQVLK, H8Q
MVH=27.0015
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
y3
b4−H2O
y5
y6
y7
y8
y9
b10−H2O
b10−NH3
b8−H2O
b9−NH3−H2O
b9
y7−H2O
y8−NH3

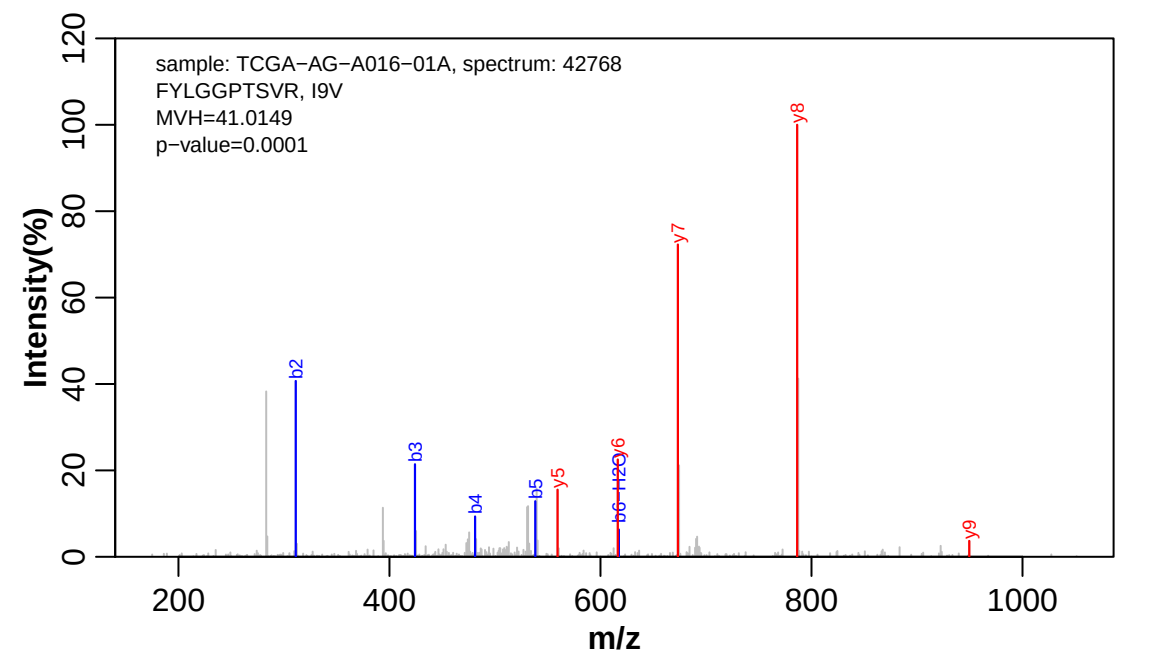

sample: TCGA−AG−A016−01A, spectrum: 87794
FFGSLPDSWAR, S11R
MVH=23.9829
p−value=0.0001
Intensity(%)
m/z
y6
b6−NH3
b5−H2O
b5
b5−NH3
y5−H2O
b6
b7
y7
y9
b9−H2O

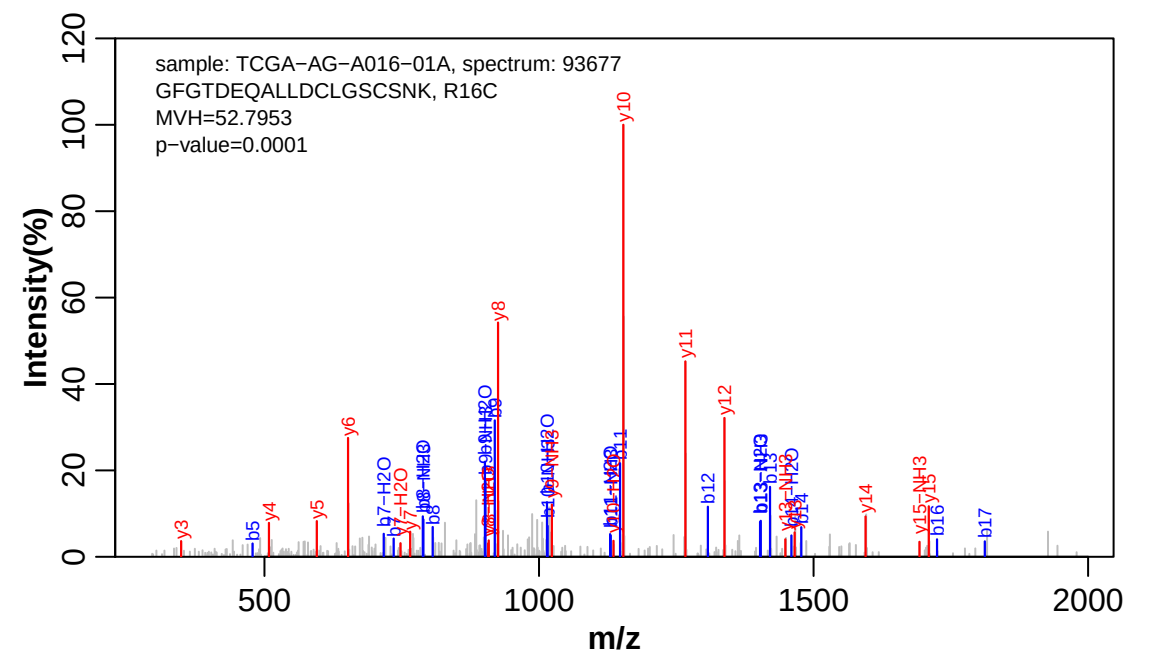

sample: TCGA−AG−A016−01A, spectrum: 88558
FGQDLLSPLLSVR, K13R
MVH=58.0868
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
y7
y8
y9
b10
y10

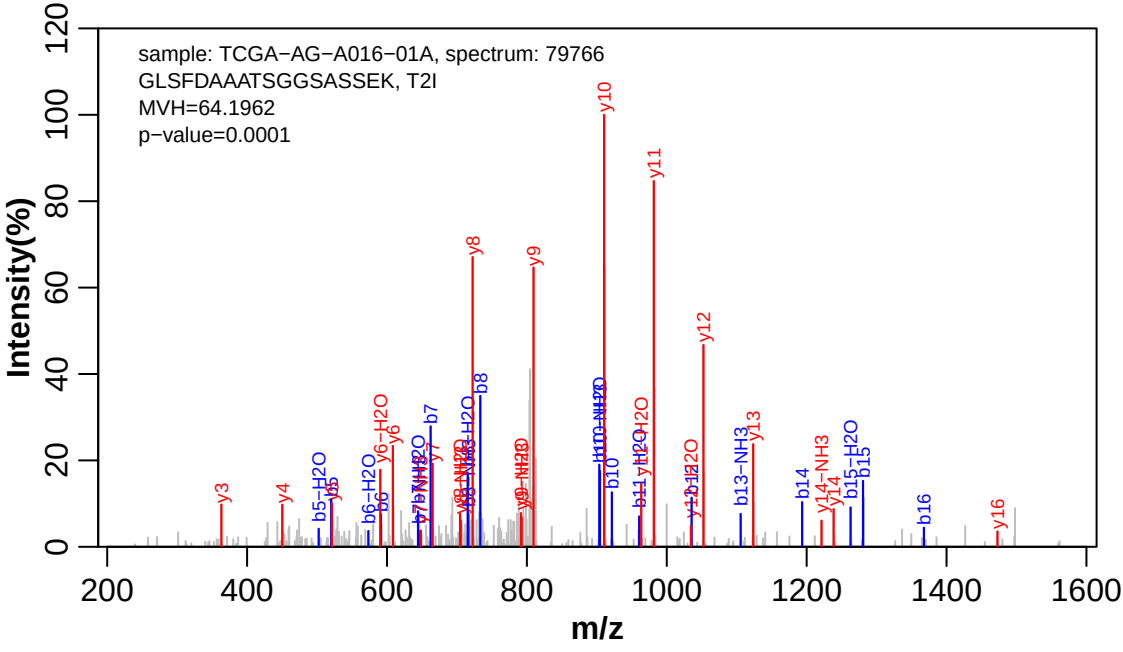

sample: TCGA−AG−A016−01A, spectrum: 38072
FNLSQESSYLATQYSLRPR, S2N
MVH=31.6524
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2−NH3
b2
b3
b4−NH3
b9++
y11++
b6
y13++
y14++
y15++−NH3
y15++−H2O
y15++
y16++
y17++
b9−NH3
y18++

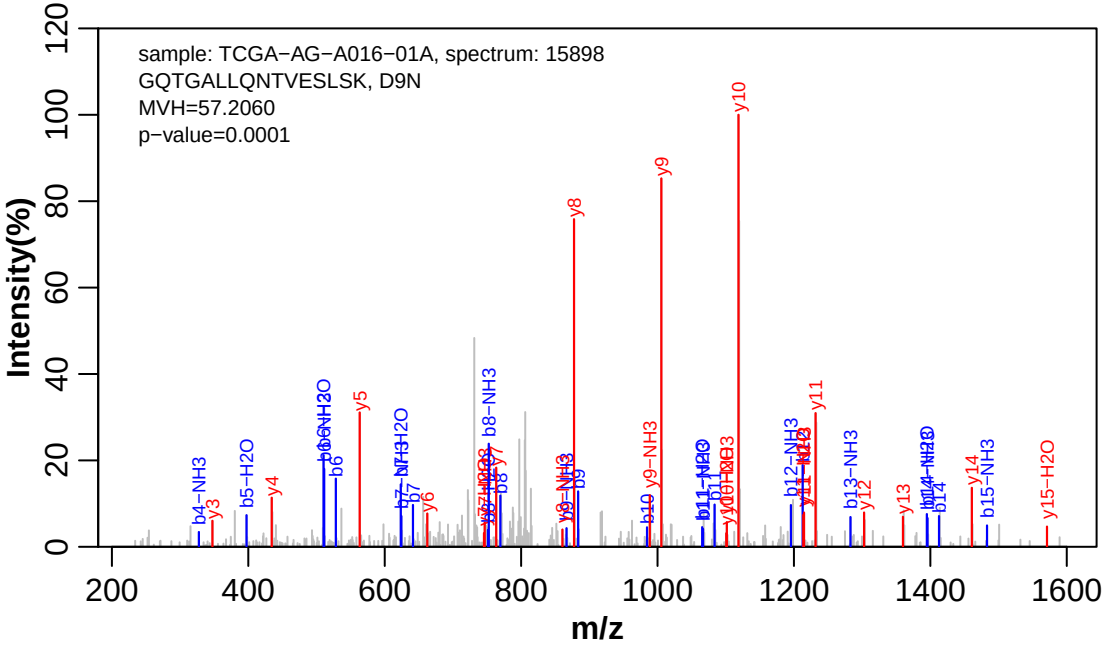

sample: TCGA−AG−A016−01A, spectrum: 66433
FTVGDHSR, I3V
MVH=39.1078
p−value=0.0003
y6++
y7++
y6++−H2O
y7++−H2O
y5++
y4++
b2
y2−H2O
y4−H2O
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
m/z

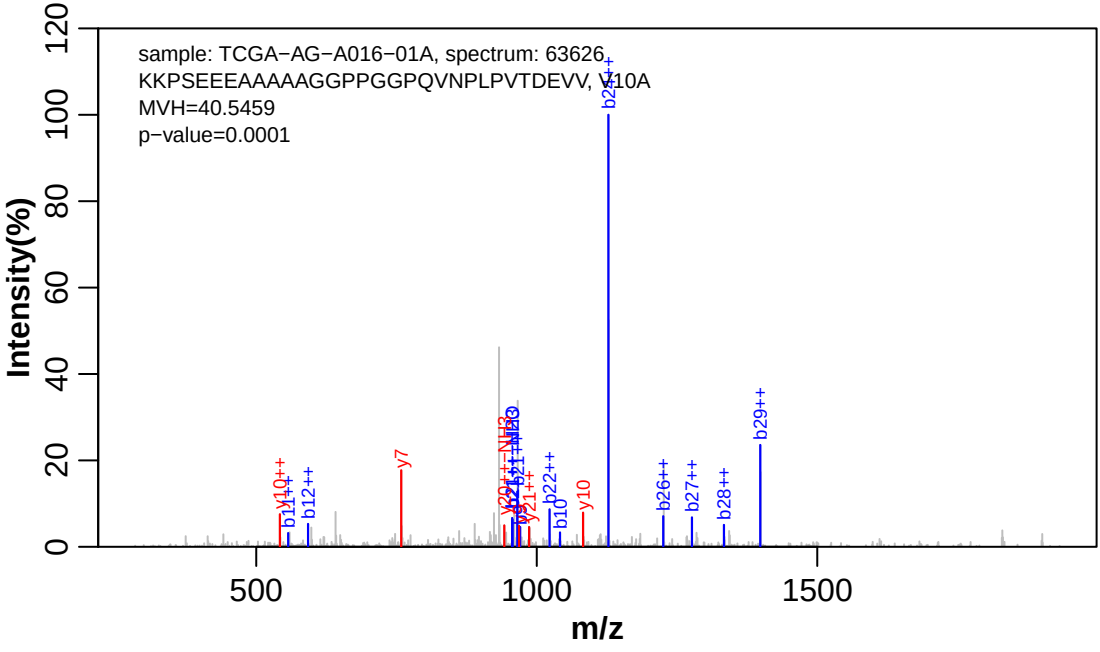

sample: TCGA−AG−A016−01A, spectrum: 31546
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A96
MVH=41.1781
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
b9++−H2O
y4
y5
b6
y12++
b8−NH3
y16++−NH3
b18++−H2O
y17++−NH3
b20++−H2O
b10−H2O
b12
y11−NH3
b13
y24++−NH3
b24++
b25++
b26++
b27++−NH3
y27++
b28++
y13
b29++−H2O
b15
y14−H2O
b16
y16−NH3
b17
b18−NH3
b19−NH3

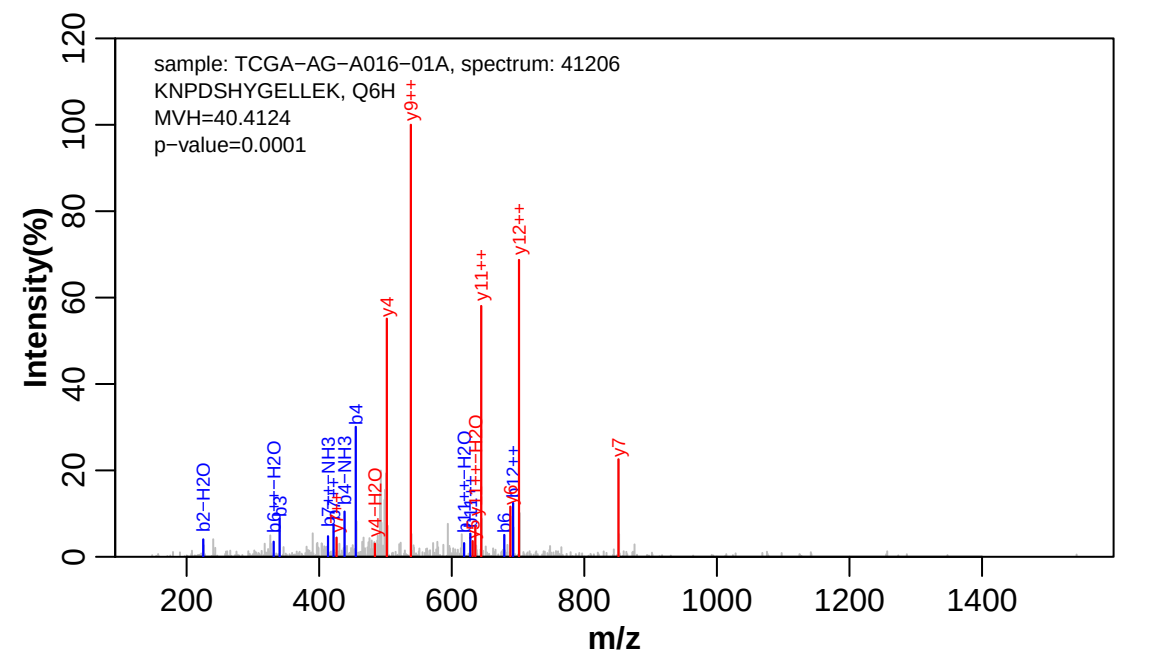

sample: TCGA−AG−A016−01A, spectrum: 42768
FYLGGPTSVR, I9V
MVH=41.0149
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8
y9

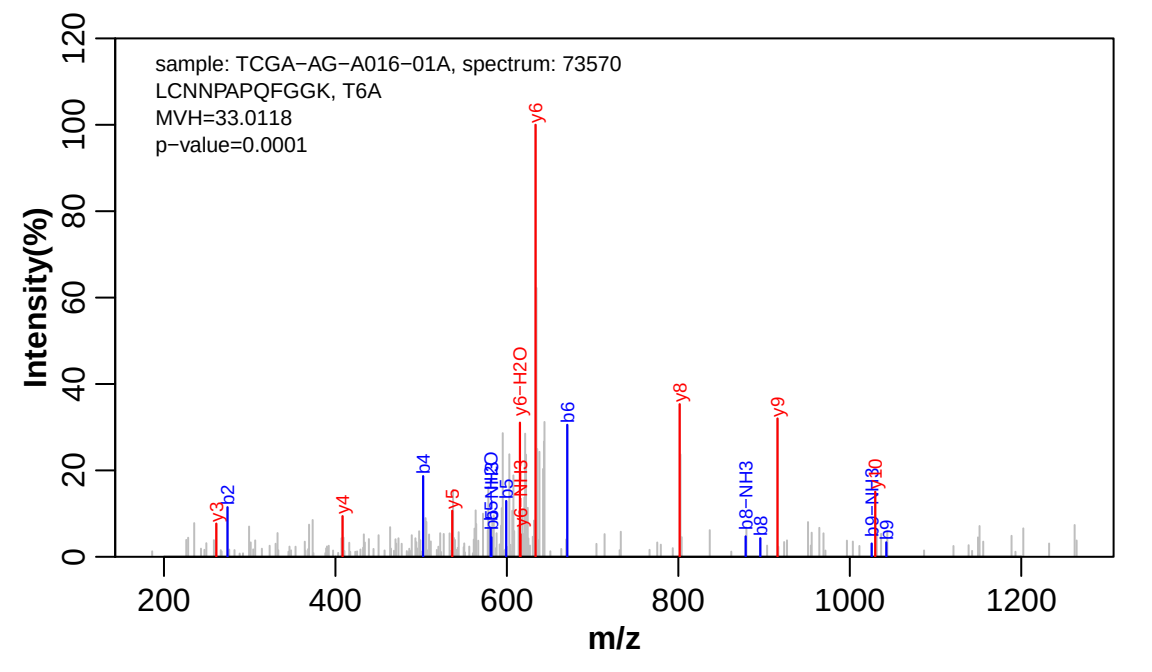

sample: TCGA−AG−A016−01A, spectrum: 93677
GFGTDEQALLDCLGSCSNK, R16C
MVH=52.7953
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y12
y6
y14
y5
y4
y3
b5
b12
b17
y15−NH3
b16
y15
b7−H2O
y7−H2O

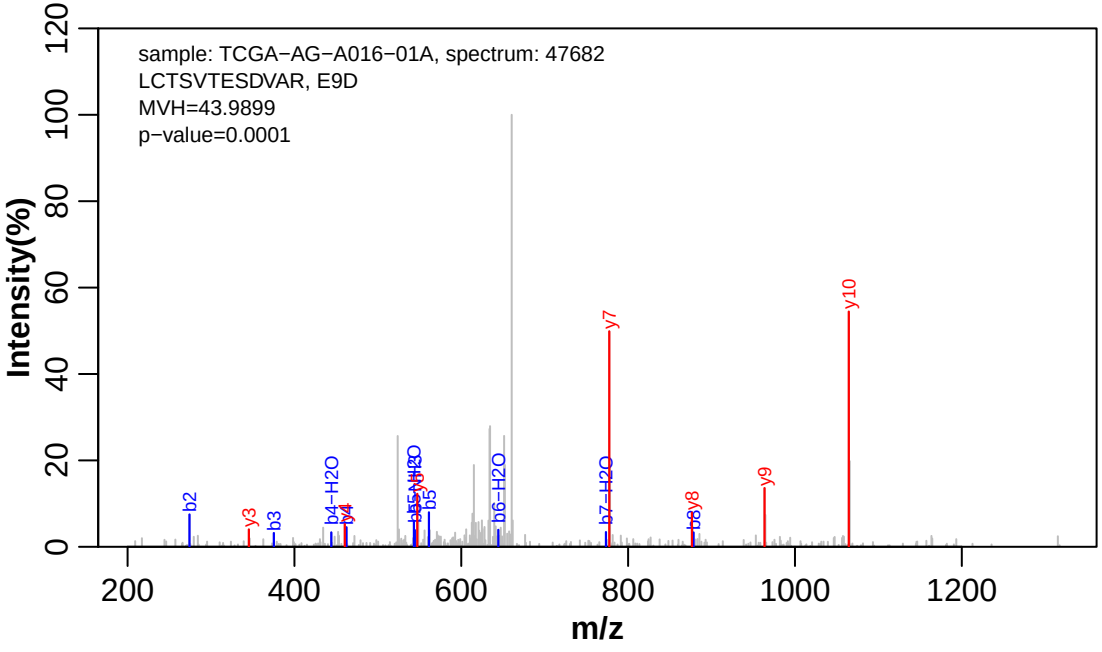

sample: TCGA−AG−A016−01A, spectrum: 79766
GLSFDAAATSGGSASSEK, T2I
MVH=64.1962
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y11
y8
y9
y12
y13
y3
y4
y6−H2O
y6
b8
b7
b10
b14
y14−NH3
y14
b15−H2O
b15
b16
y16
b13−NH3

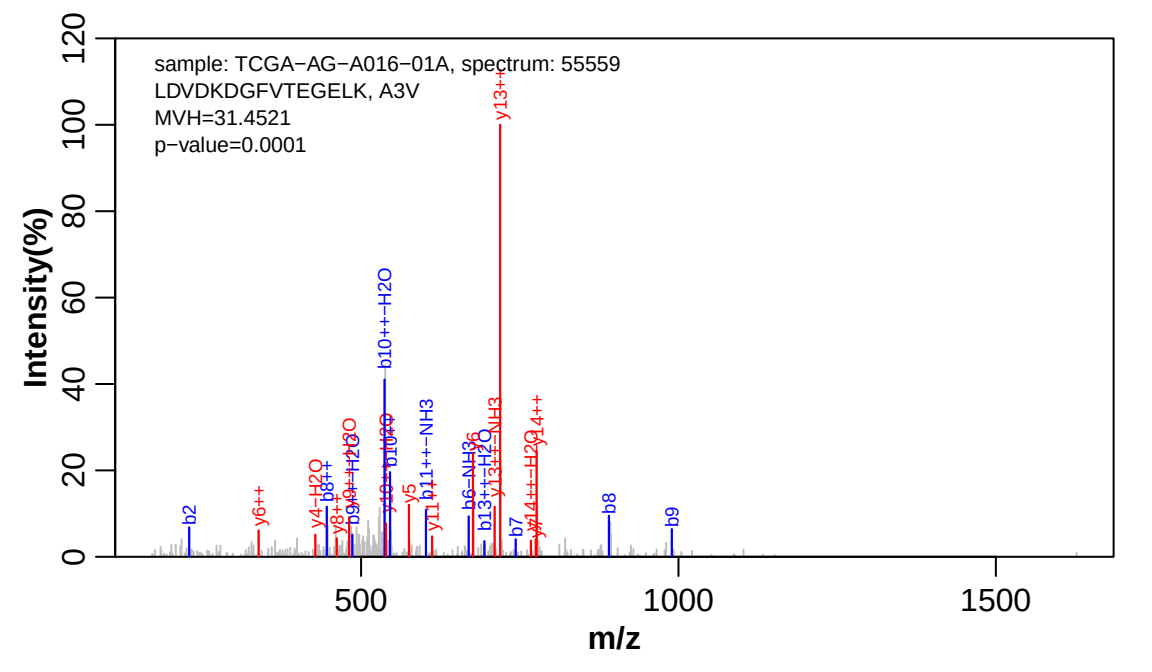

sample: TCGA−AG−A016−01A, spectrum: 15898
GQTGALLQNTVESLSK, D9N
MVH=57.2060
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4−NH3
y3
b5−H2O
y4
b6−NH3
b6
y5
b7−NH3
b7−H2O
b7
y6
b8−NH3
b8
y7
y8
b9
y9−NH3
b10
y9
y10
b12−NH3
y11
b13−NH3
y12
y13
b14
b15−NH3
y14
y15−H2O

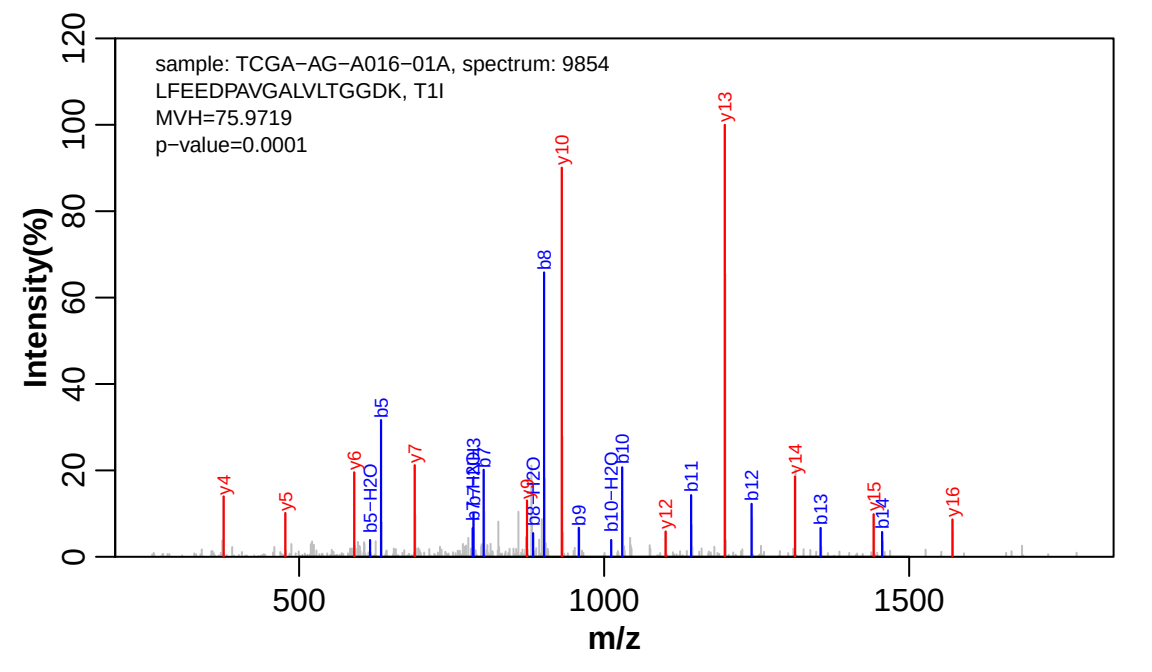

sample: TCGA−AG−A016−01A, spectrum: 63626,
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV, Y410A
MVH=40.5459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b24++
b29++
y7
y10++
b11++
b12++
b10
b22++
y10
b26++
b27++
b28++

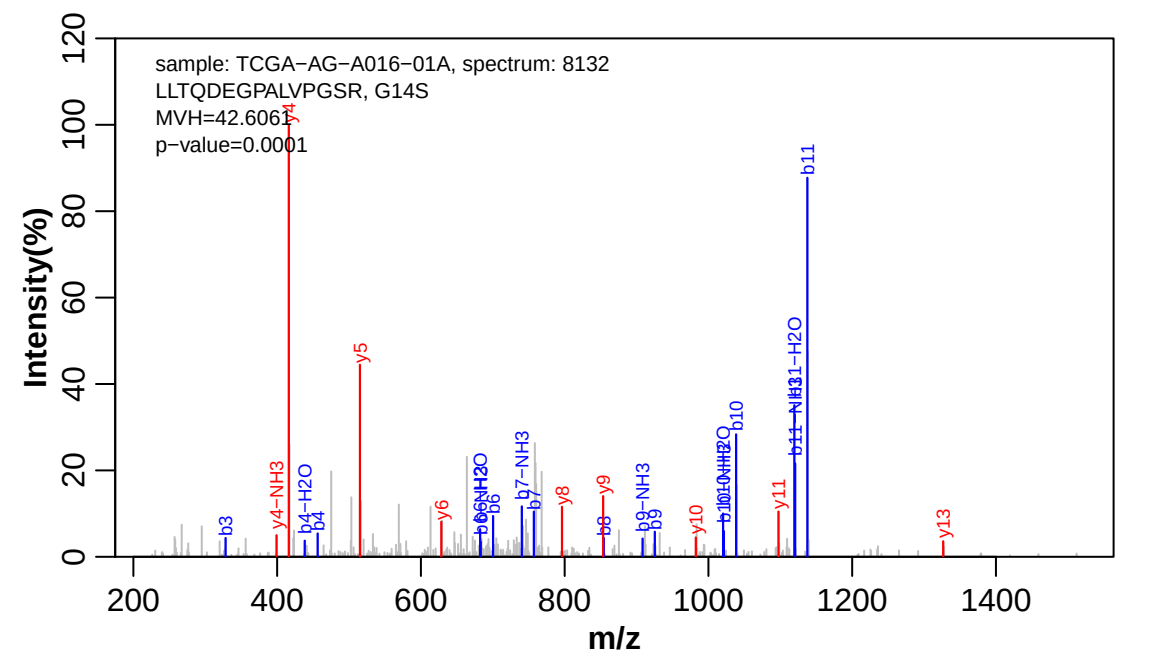

sample: TCGA−AG−A016−01A, spectrum: 41206
KNPDSHYGELLEK, Q6H
MVH=40.4124
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y9++
y12++
y11++
y4
y7
b4
b2−H2O
b3−H2O
y4−H2O
y11++−H2O
b6
y6
y12++

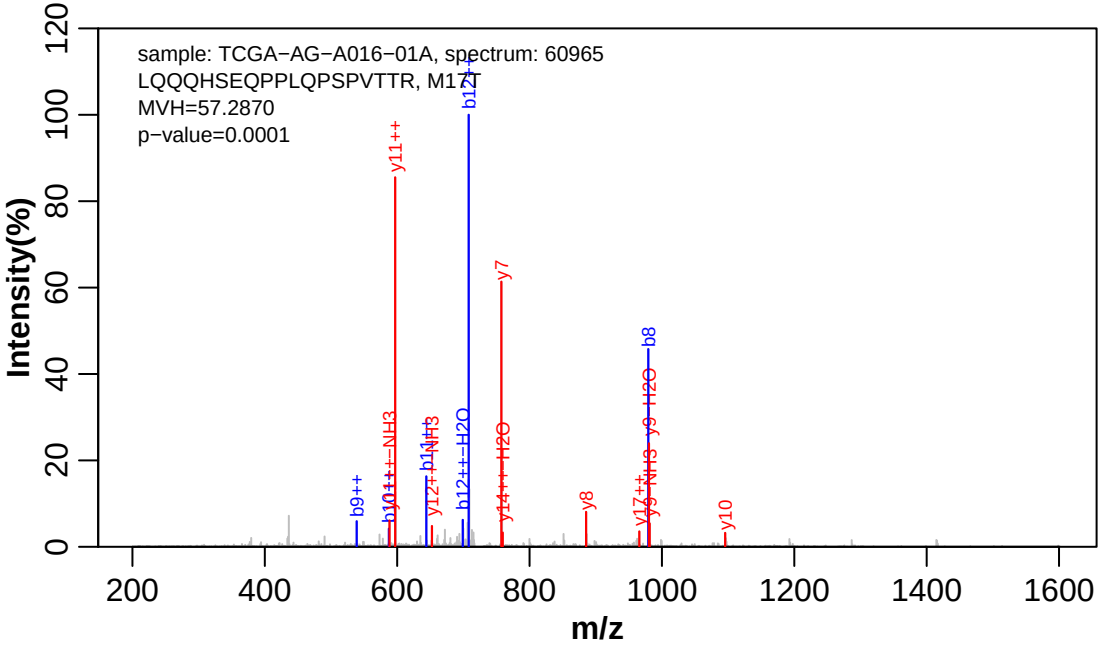

sample: TCGA−AG−A016−01A, spectrum: 73570
LCNNPAPQFGGK, T6A
MVH=33.0118
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
b2
y4
b4
y5
b5−NH2O
b5
y6−NH3
y6−H2O
y6
b6
y8
b8−NH3
b8
y9
b9−NH3
y10
b9

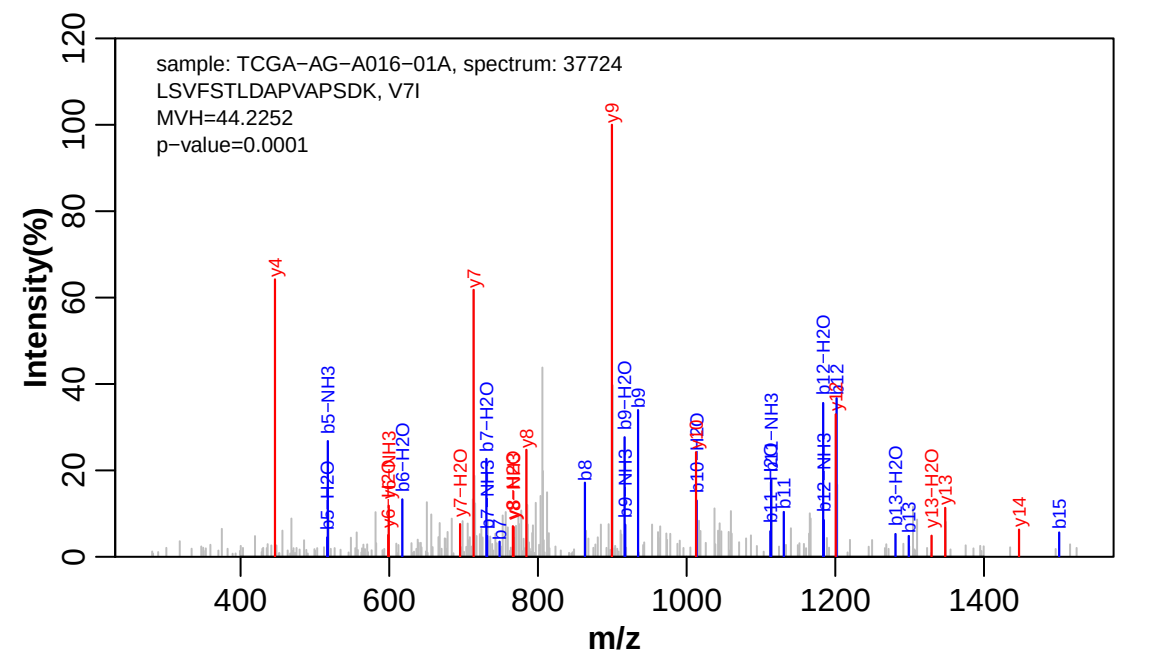

sample: TCGA−AG−A016−01A, spectrum: 47682
LCTSVTESDVAR, E9D
MVH=43.9899
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b3
b4−H2O
b4
b5−NH3
b5−H2O
y6
b5
b6−H2O
y7
b7−H2O
b8y8
y9
y10

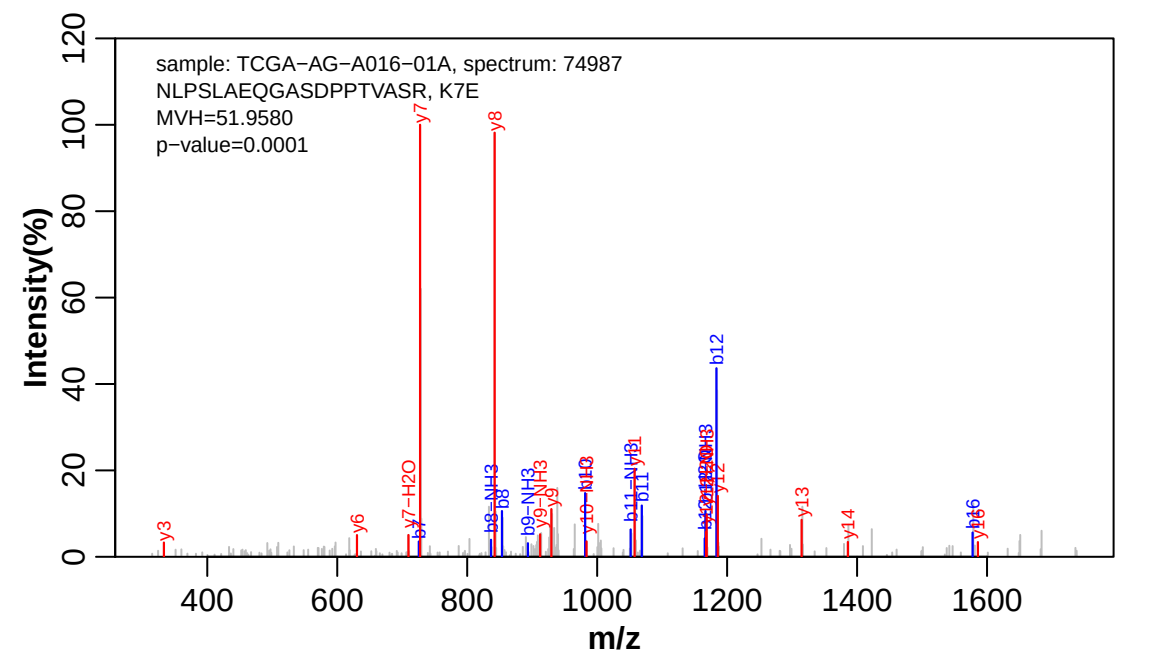

sample: TCGA−AG−A016−01A, spectrum: 55559
LDVDKDGFVTEGELK, A3V
MVH=31.4521
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y6++
y4−H2O
b8++
y8++−H2O
b9++−H2O
b10++−H2O
y10
y5
y11
b11++−NH3
b6−NH3
b13++−H2O
y13++−NH3
b7
y14++−H2O
y14++
b8
b9
y13++

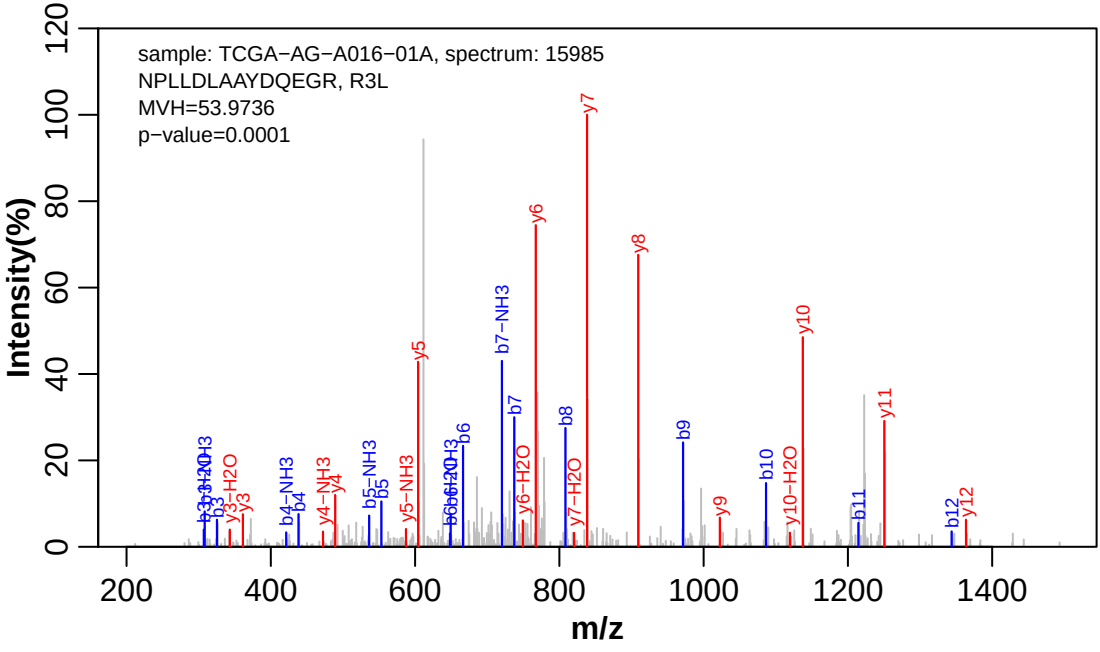

sample: TCGA−AG−A016−01A, spectrum: 9854
LFEEDPAVGALVLTGGDK, T1I
MVH=75.9719
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
b5−H2O
b5
y7
b7−H2O
b7
b8−H2O
b8
y10
y13
b9
b10−H2O
b10
y12
b11
b12
y14
b13
y15
b14
y16

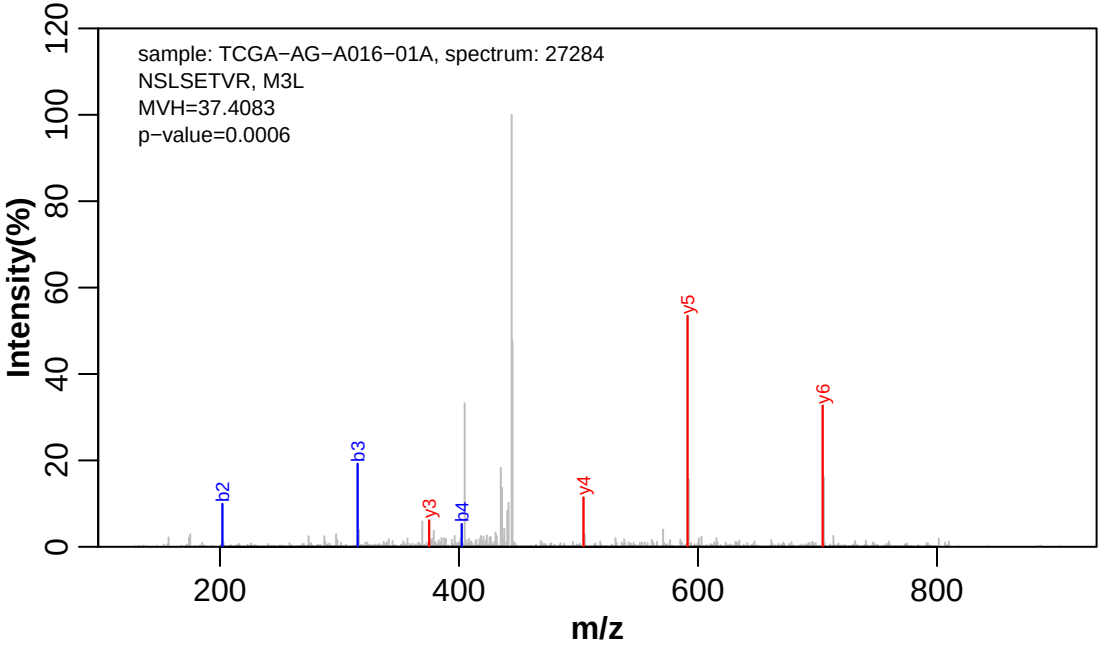

sample: TCGA−AG−A016−01A, spectrum: 8132
LLTQDEGPALVPGSR, G14S
MVH=42.6061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y4−NH3
y4
b4−H2O
b4
y5
y6
b6−NH3
b6−H2O
b6
b7−NH3
b7
y8
y9
b8
b9−NH3
b9
y10
b10−NH3
b10−H2O
b10
y11
b11−NH3
b11−H2O
b11
y13

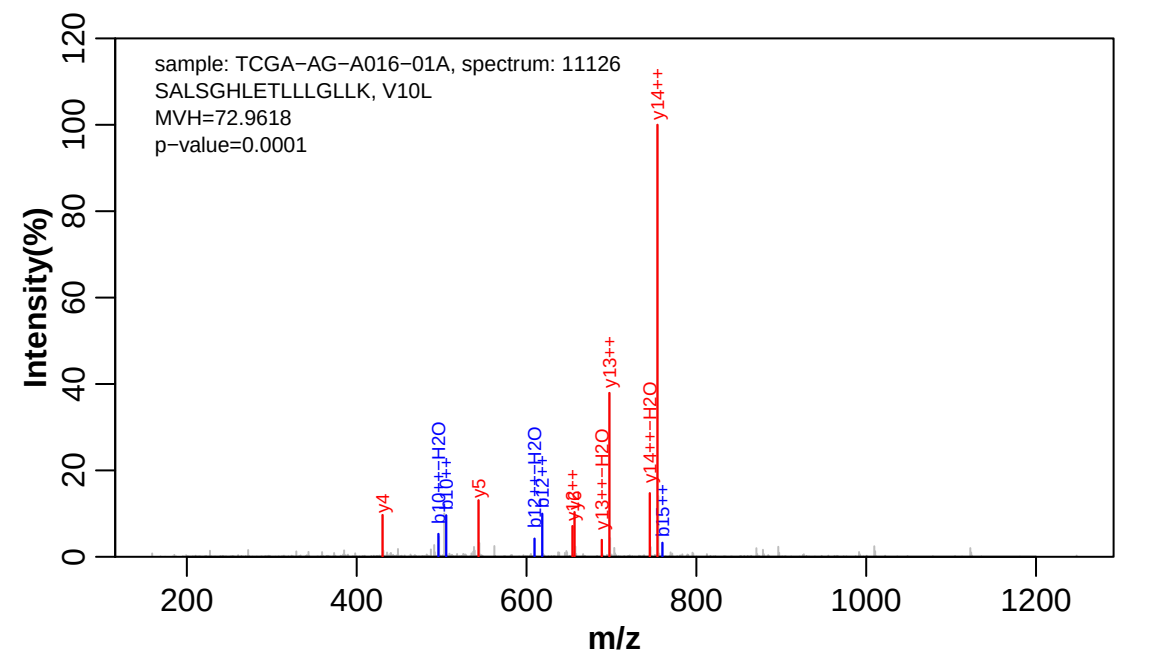

sample: TCGA−AG−A016−01A, spectrum: 60965
LQQQHSEQPPLQPSPVTTR, M17T
MVH=57.2870
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b9++
b10++−NH3
y11++
y12++−NH3
b12++−H2O
b12++
y14++−H2O
y7
y8
y7++
y9−NH3
y9−H2O
b8
y10

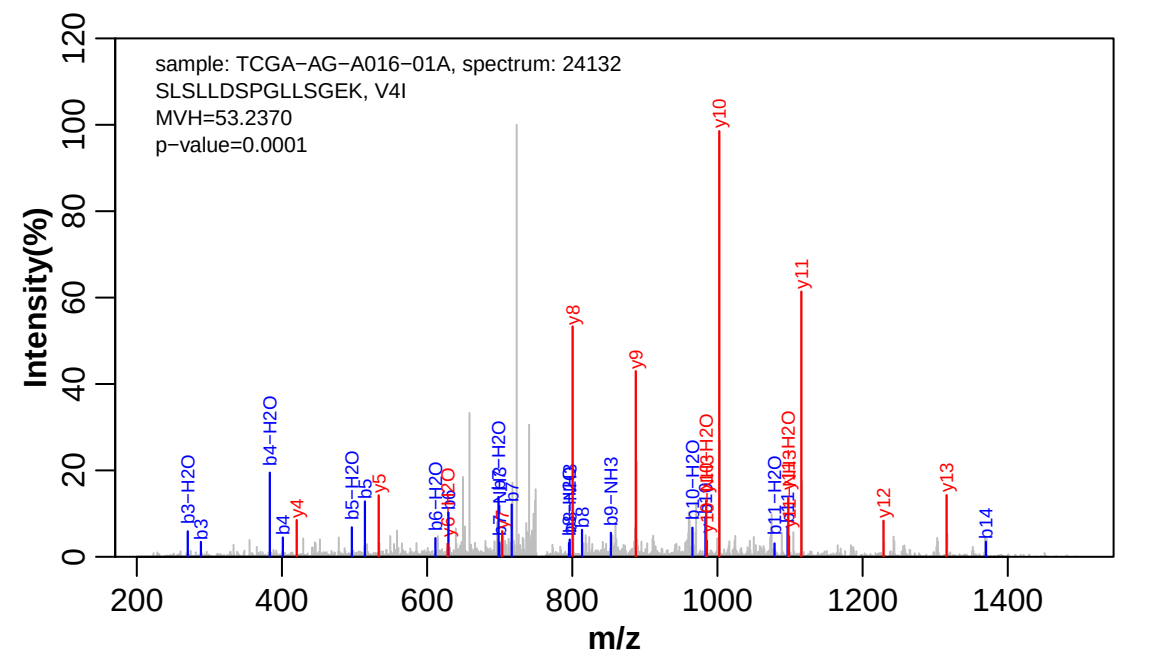

sample: TCGA−AG−A016−01A, spectrum: 37724
LSVFSTLDAPVAPSDK, V7I
MVH=44.2252
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
y4
y7
y9
y8
y14
b5−NH3
b5−H2O
b6−H2O
y7−H2O
b7−NH3
b7−H2O
b8
b9−H2O
b9
b9−NH3
b10
b11−H2O
b11−NH3
b11
b12−H2O
b12−NH3
b13−H2O
b13
y13−H2O
y13
b15

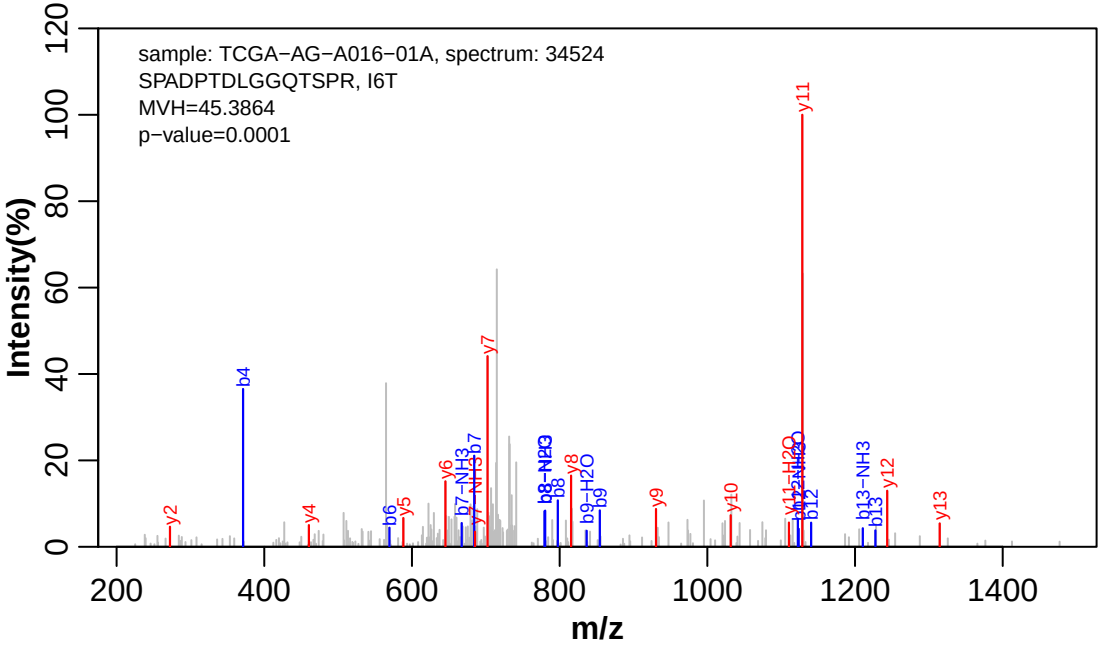

sample: TCGA−AG−A016−01A, spectrum: 74987
NLPSLAEQGASDPPTVASR, K7E
MVH=51.9580
p−value=0.0001
Intensity(%)
m/z
y7
y8
y7−H2O
b7
b8−NH3
b8
b9−NH3
y9−NH3
y9
y10
b10
b11−NH3
b11
y11
b12
y12
y13
y14
y16
y3
y6
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600

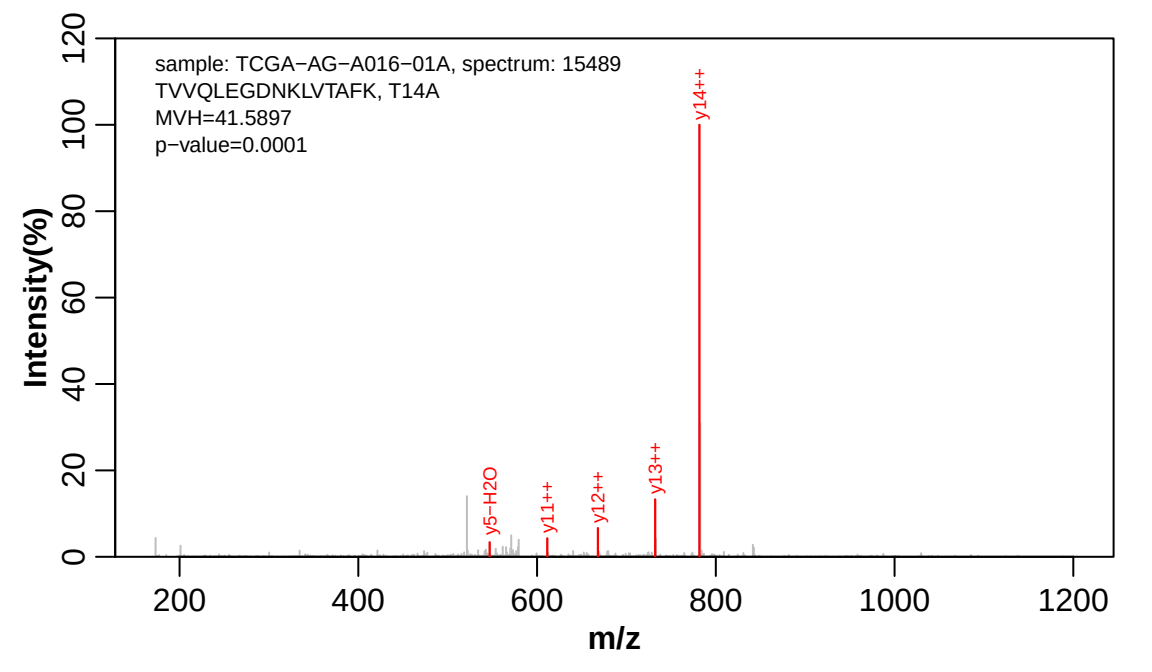

sample: TCGA−AG−A016−01A, spectrum: 15985
NPLLDLAAYDQEGR, R3L
MVH=53.9736
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y8
y10
y11
y5
b7−NH3
b7
b8
b9
b10
b11
b12
y12
y9
y10−H2O
y7−H2O
y6−H2O
y5−NH3
y4−NH3
b5−NH3
b4−NH3
b6
y3
y3−H2O
b3
b4
b5

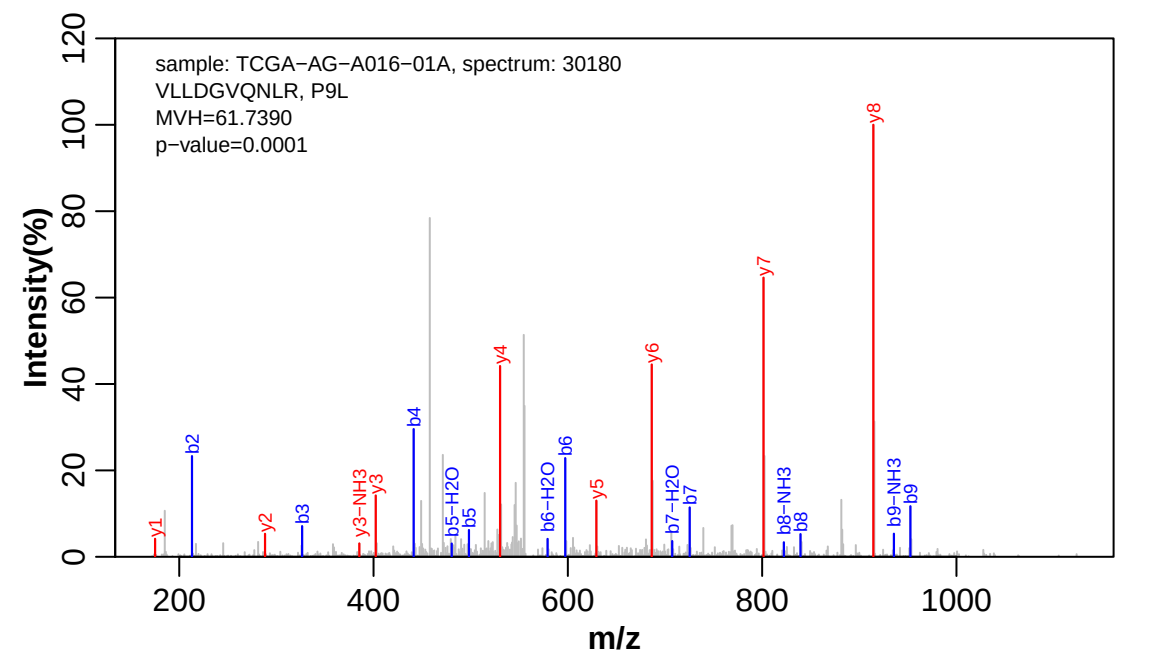

sample: TCGA−AG−A016−01A, spectrum: 27284
NSLSETVR, M3L
MVH=37.4083
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
b4
y4
y5
y6

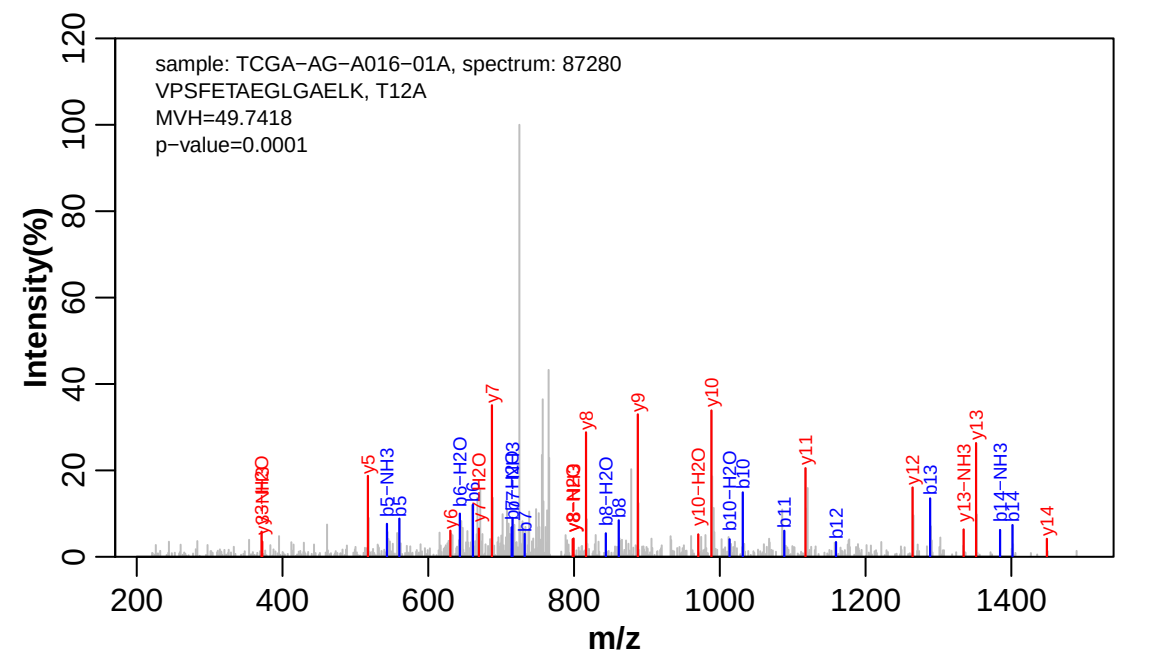

sample: TCGA−AG−A016−01A, spectrum: 11126
SALSGHLETLLLGLLK, V10L
MVH=72.9618
p−value=0.0001
Intensity(%)
m/z
y4
b10++−H2O
b10++
y5
b12++−H2O
b12++
y13++
y13++−H2O
y14++−H2O
y14++
b15++

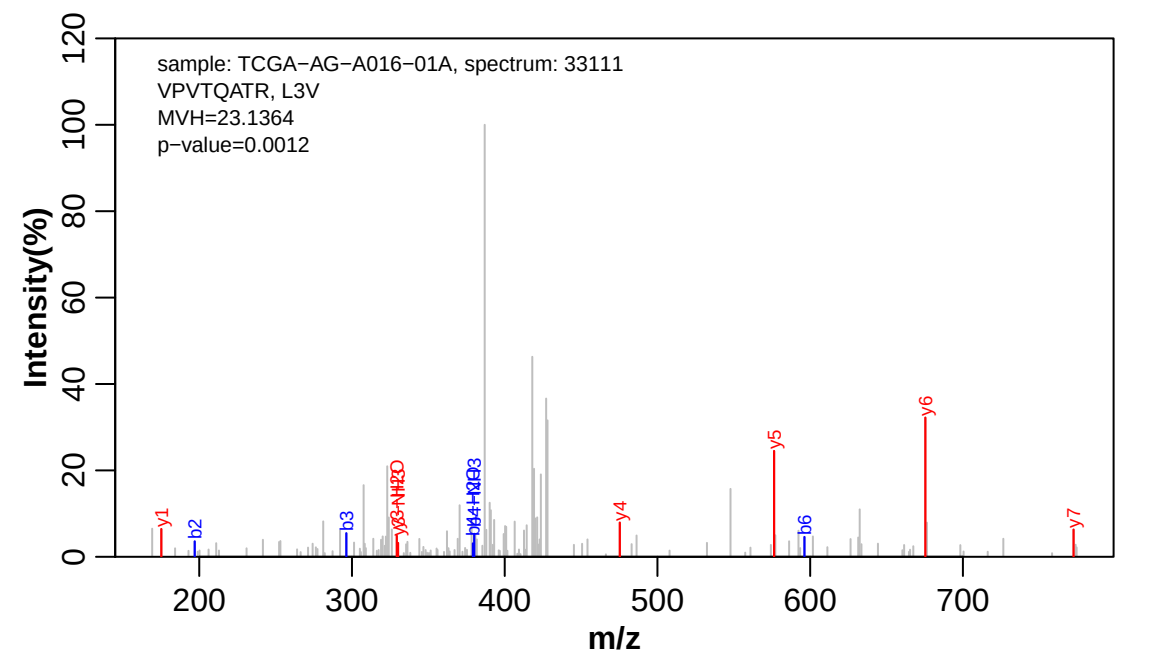

sample: TCGA−AG−A016−01A, spectrum: 24132
SLSLLDSPGLLSGEK, V4I
MVH=53.2370
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
b7−NH3−H2O
b7
b8
b9−NH3
y8
y9
b10−H2O
y10
y11
b11−H2O
y12
y13
b14

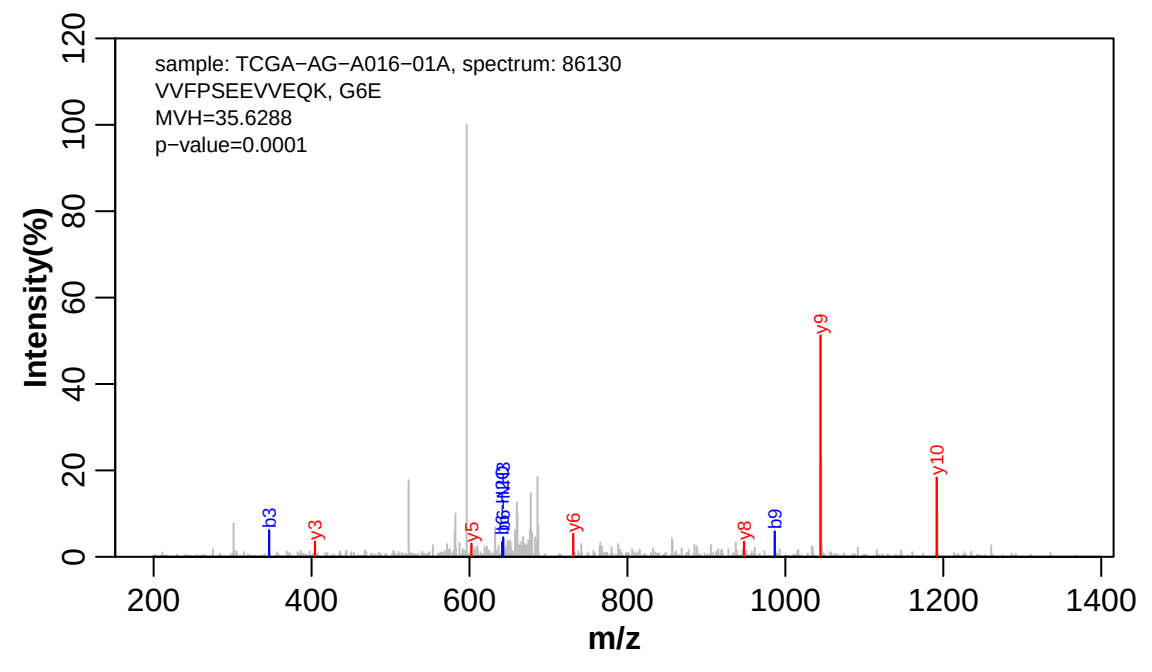

sample: TCGA−AG−A016−01A, spectrum: 34524
SPADPTDLGGQTSPR, I6T
MVH=45.3864
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y11
y7
b4
y6
b7
y8
y9
y10
y12
y13
y2
y4
b6
y5
b13−NH3

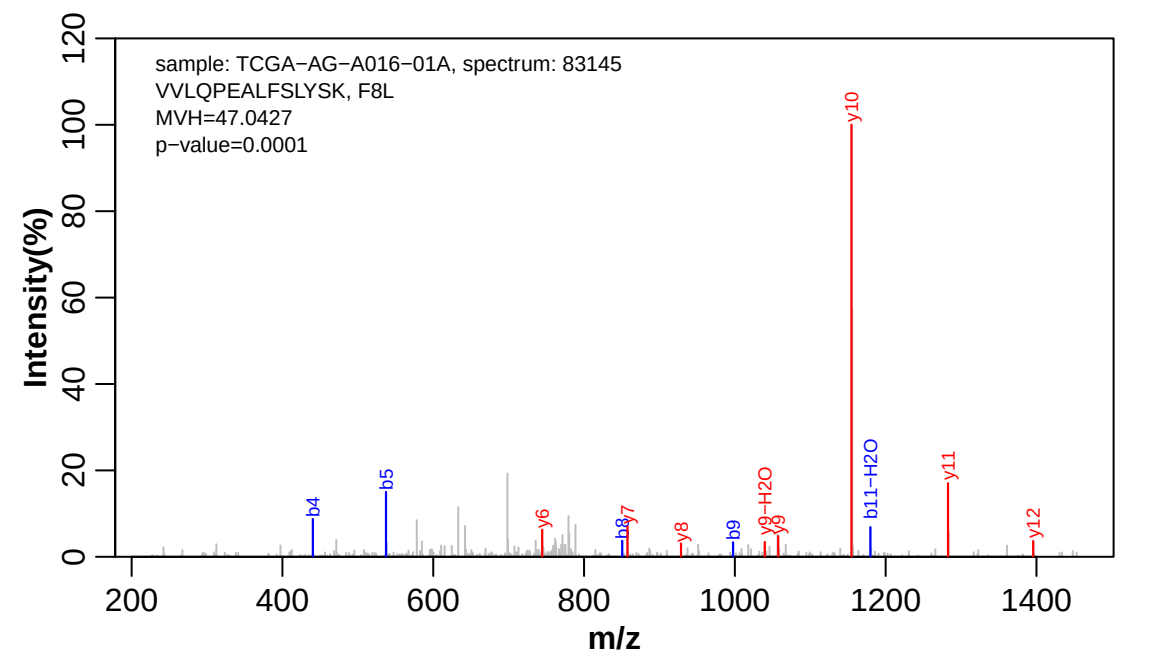

sample: TCGA−AG−A016−01A, spectrum: 15489
TVVQLEGDNKLVTAFK, T14A
MVH=41.5897
p−value=0.0001
y14++
y5−H2O
y11++
y12++
y13++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

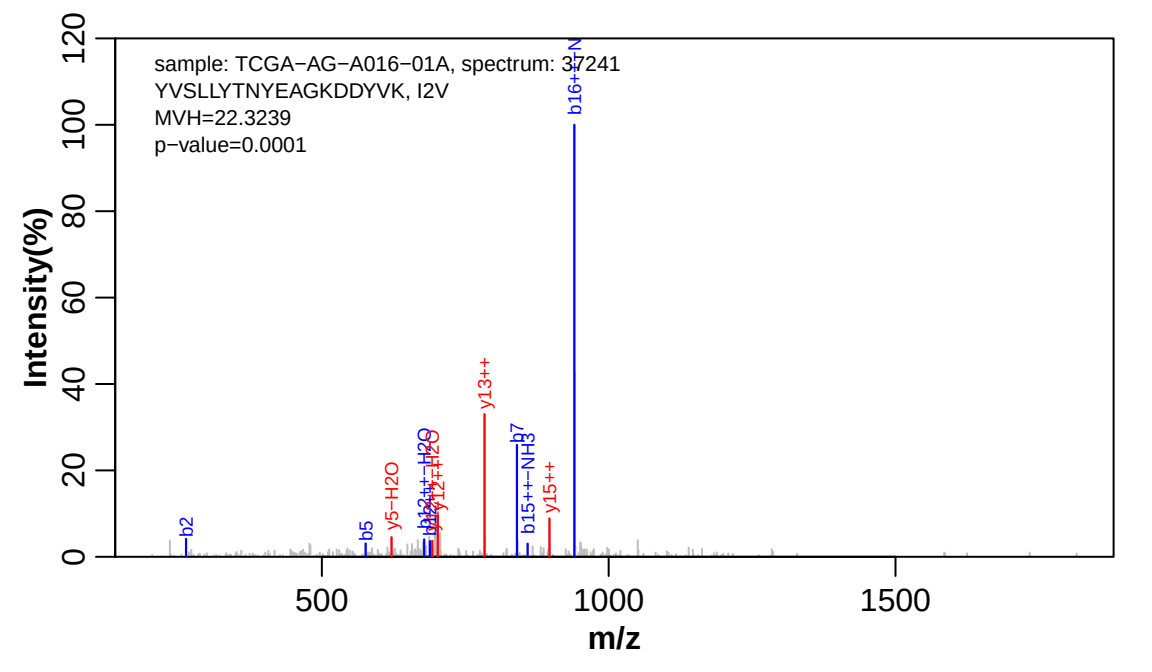

sample: TCGA−AG−A016−01A, spectrum: 30180
VLLDGVQNLR, P9L
MVH=61.7390
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y2
b3
y3−NH3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y5
y6
b7−H2O
b7
y7
b8−NH3
b8
y8
b9−NH3
b9

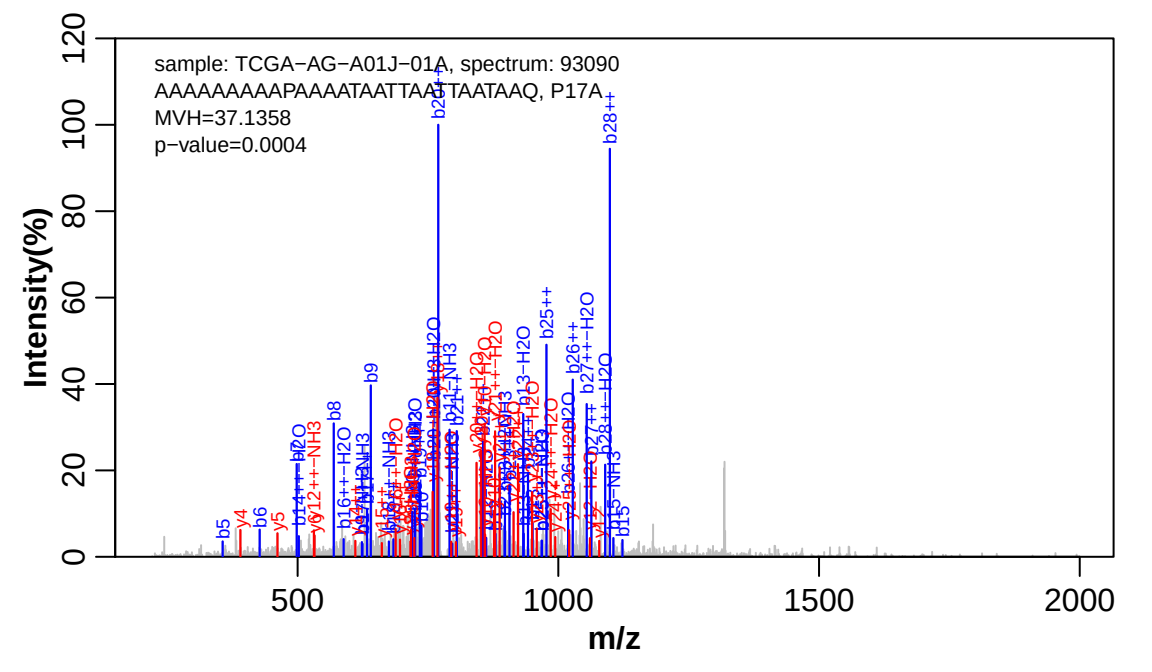

sample: TCGA−AG−A016−01A, spectrum: 87280
VPSFETAEGLGAELK, T12A
MVH=49.7418
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
b5−NH3
b5
y6
b6−H2O
b6
y7
y7−H2O
b7
y8
y8−NH3
b8−H2O
b8
y9
y10
y10−H2O
b10−H2O
b10
y11
b11
b12
y12
b13
y13
y13−NH3
b14−NH3
b14
y14

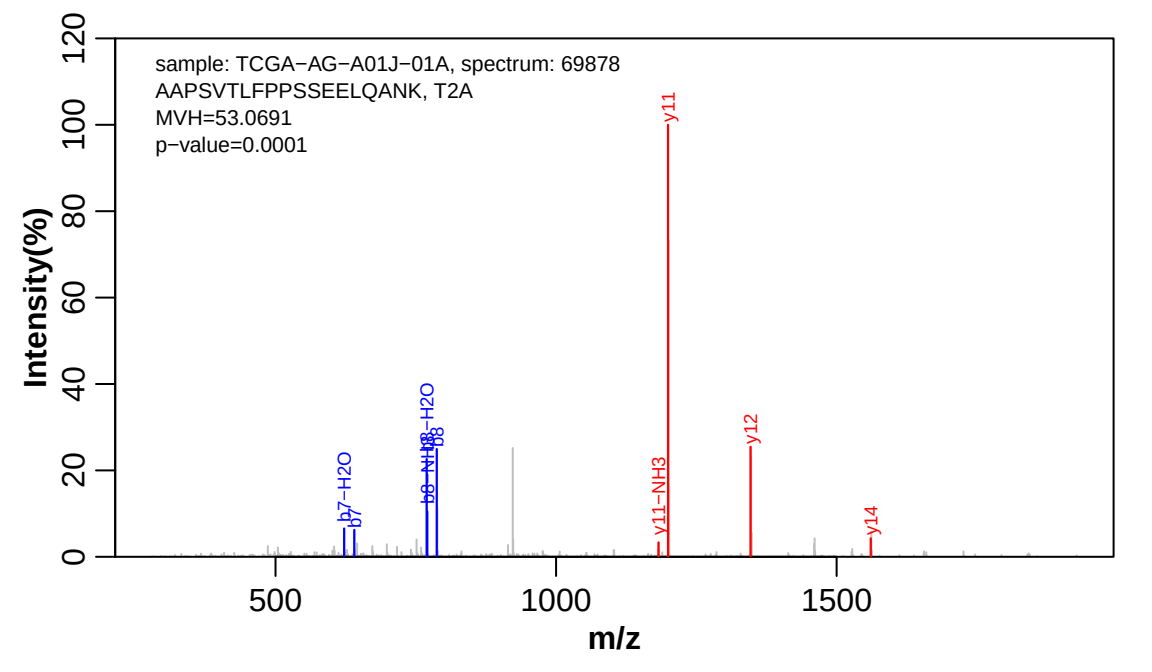

sample: TCGA−AG−A016−01A, spectrum: 33111
VPVTQATR, L3V
MVH=23.1364
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
300
400
500
600
700
m/z
y1
b2
b3
y4
y5
b6
y6
y7

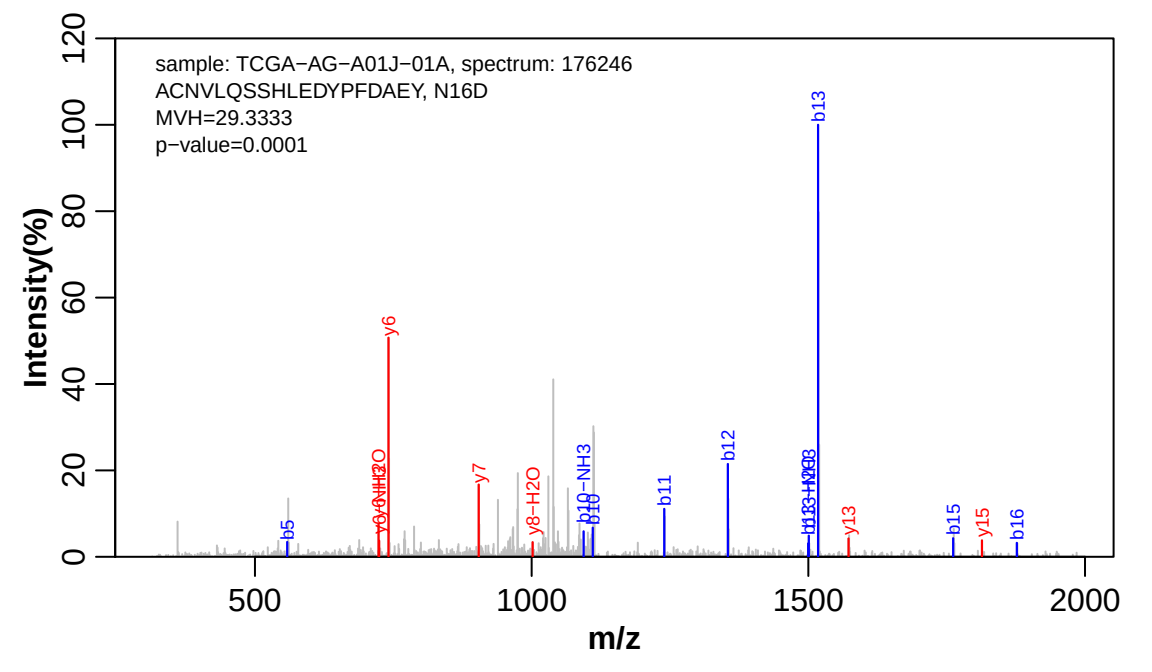

sample: TCGA−AG−A016−01A, spectrum: 86130
VVFPSEEVVEQK, G6E
MVH=35.6288
p−value=0.0001
Intensity(%)
m/z
b3
y3
y5
y6
y8
b9
y9
y10

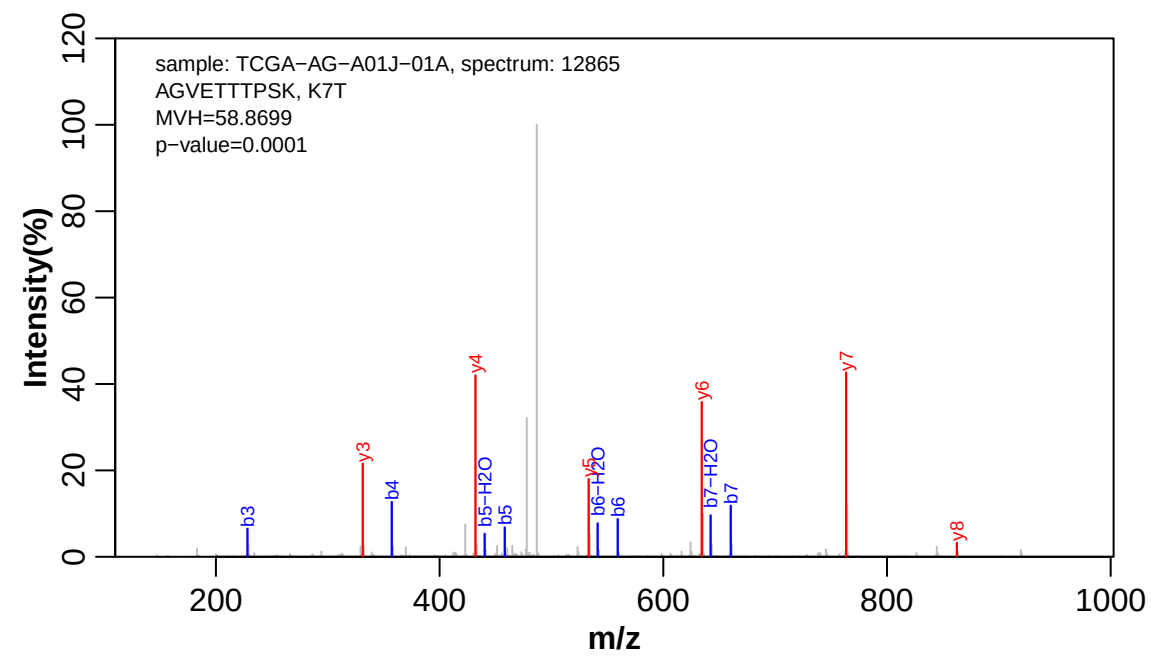

sample: TCGA−AG−A016−01A, spectrum: 83145
VVLQPEALFSLYSK, F8L
MVH=47.0427
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b4
b5
y6
b8
y7
y8
b9
y9−H2O
y9
b11−H2O
y10
y11
y12

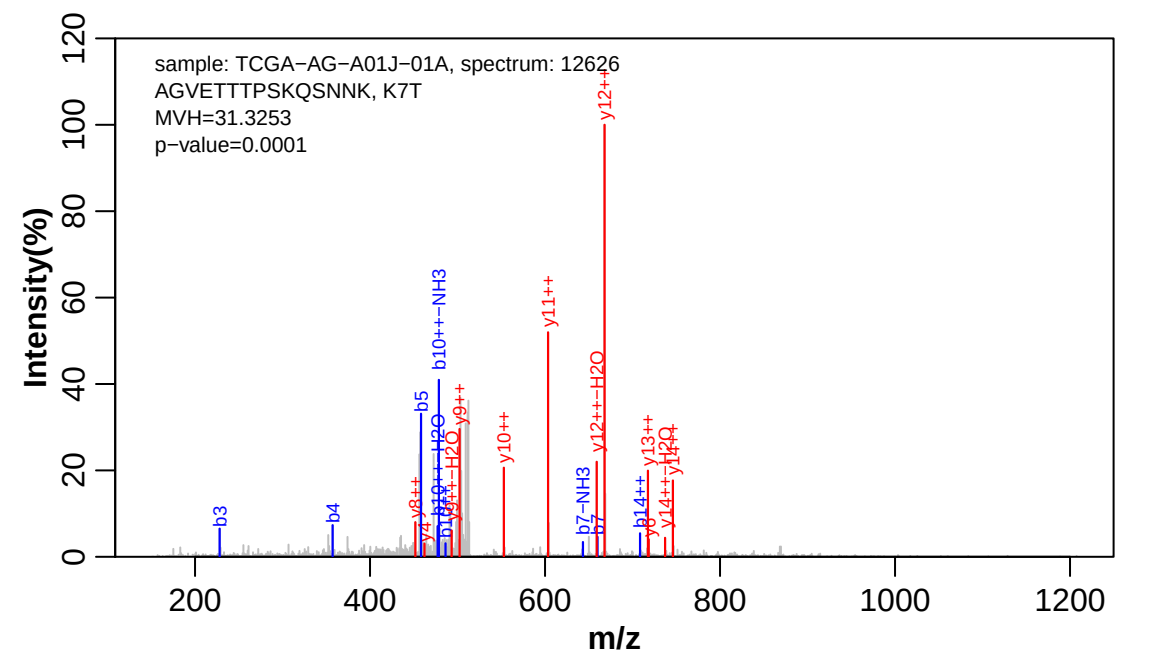

sample: TCGA−AG−A016−01A, spectrum: 37241
YVSLLYTNYEAGKDDYVK, I2V
MVH=22.3239
p−value=0.0001
Intensity(%)
m/z
b16+−N
y13++
b7
b15++−NH3
y15++
y5−H2O
b5
b2

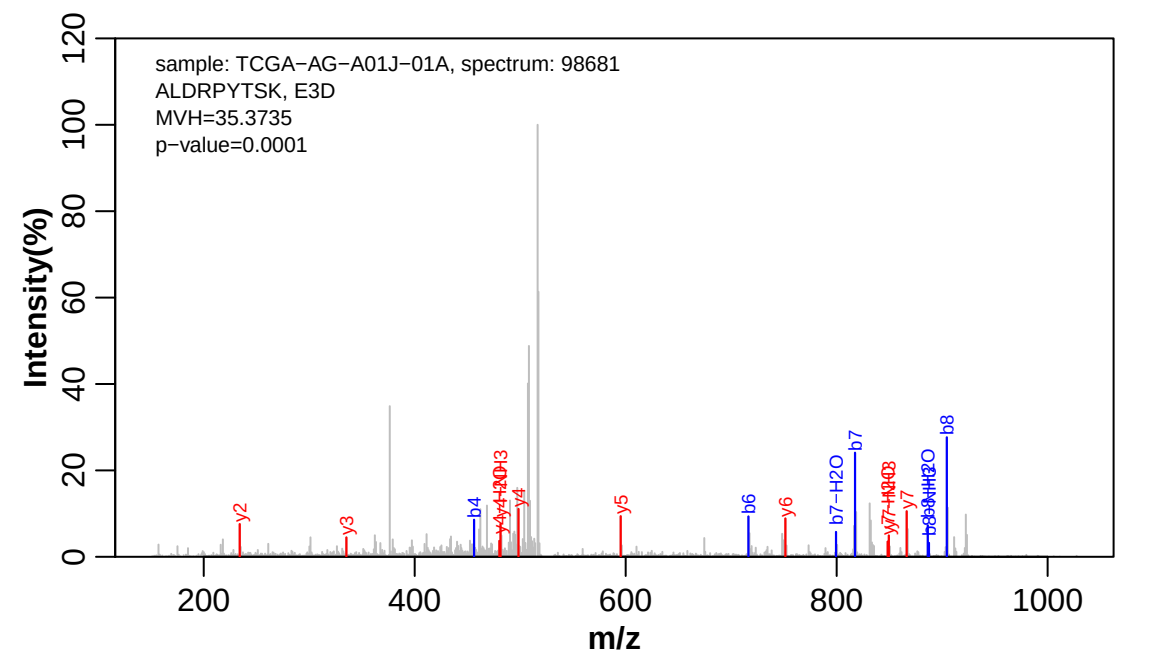

sample: TCGA−AG−A01J−01A, spectrum: 93090
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=37.1358
p−value=0.0004
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b28++
b25++
b9
b8
y4
b6
y5
b5

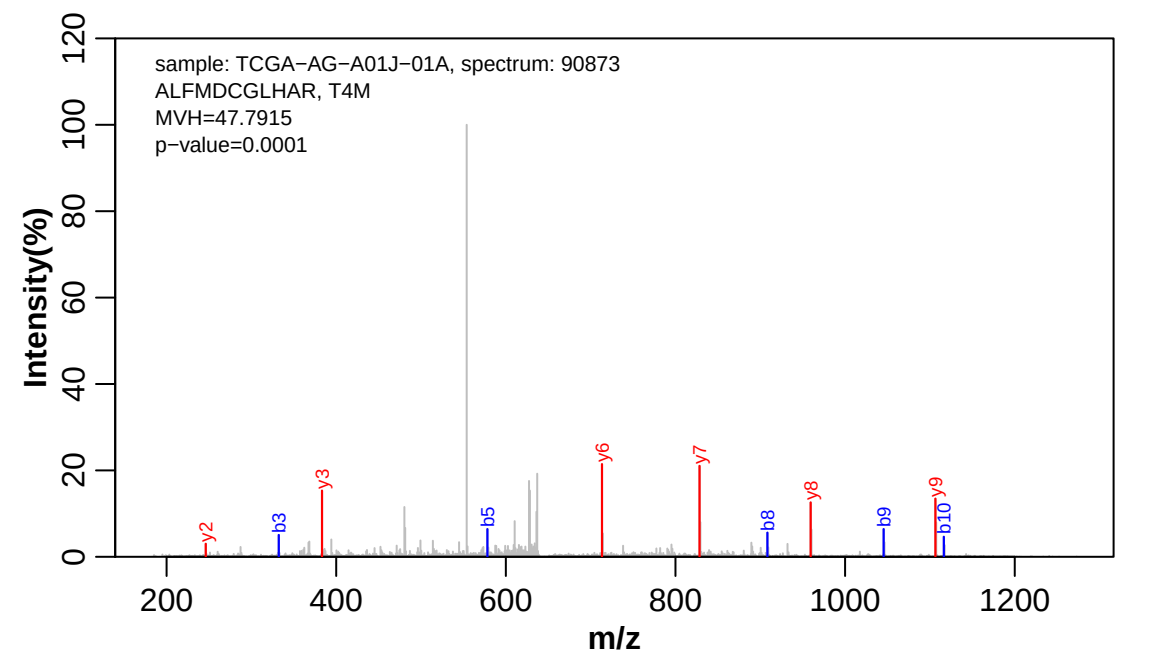

sample: TCGA−AG−A01J−01A, spectrum: 69878
AAPSVTLFPPSSEELQANK, T2A
MVH=53.0691
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
y11−NH3
b7−H2O
b7
b8−NH3−H2O
b8

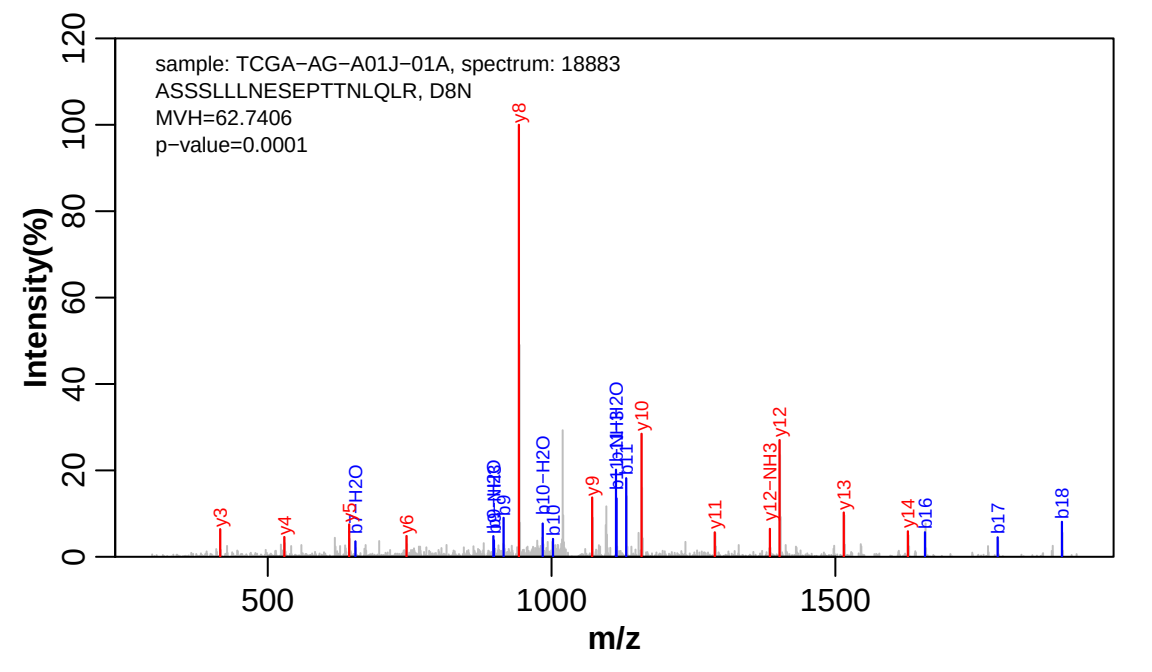

sample: TCGA−AG−A01J−01A, spectrum: 176246
ACNVLQSSHLEDYPFDAEY, N16D
MVH=29.3333
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5
y6
y7
y8−H2O
b10−NH3
b10
b11
b12
b13
y13
b15
y15
b16

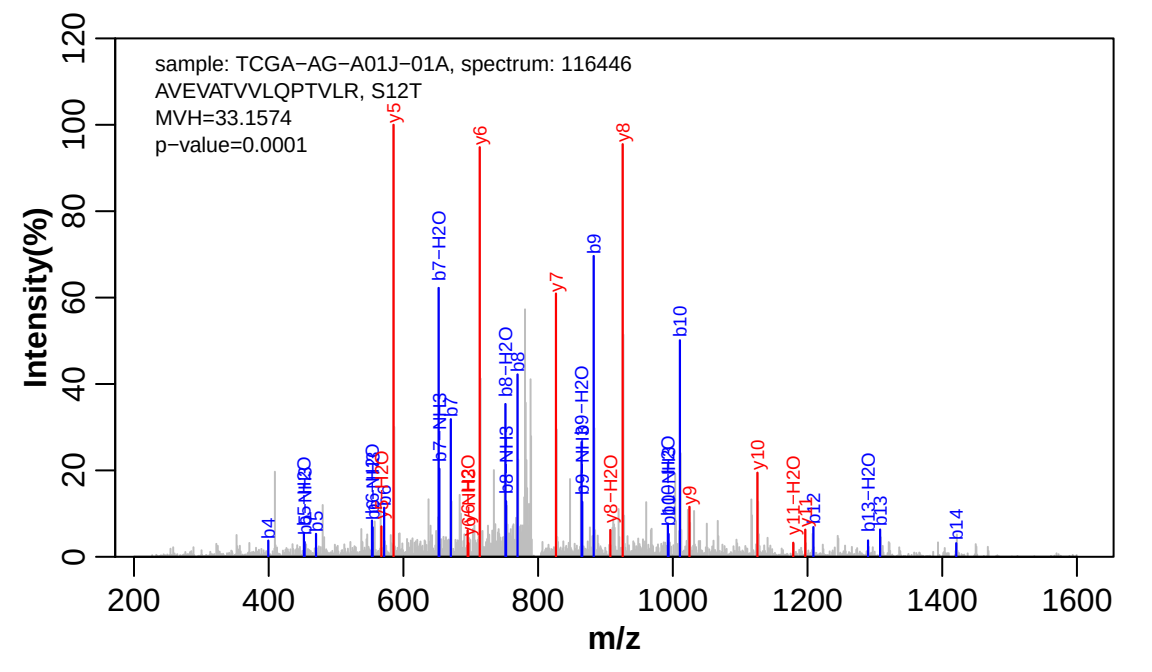

sample: TCGA−AG−A01J−01A, spectrum: 12865
AGVETTTPSK, K7T
MVH=58.8699
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8

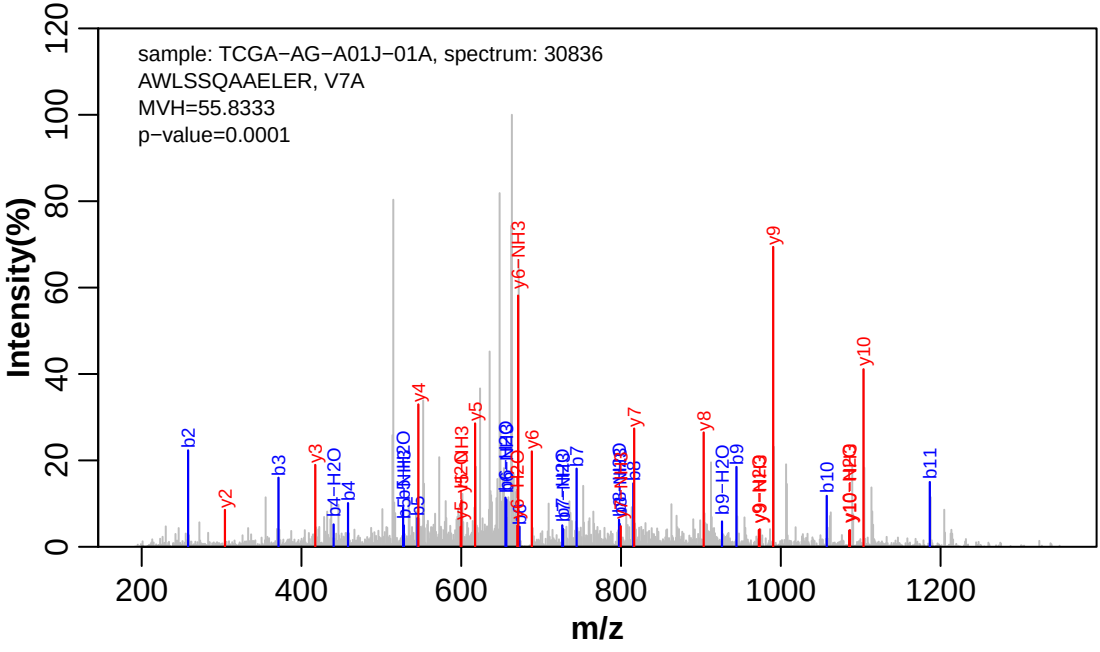

sample: TCGA−AG−A01J−01A, spectrum: 12626
AGVETTTPSKQSNNK, K7T
MVH=31.3253
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
b4
y8++
y4++
b5
b10++−H2O
b10++−NH3
y9++
y10++
y11++
b7−NH3
b7
y12++−H2O
y12++
b14++
y8
y13++
y14++
y14++−H2O

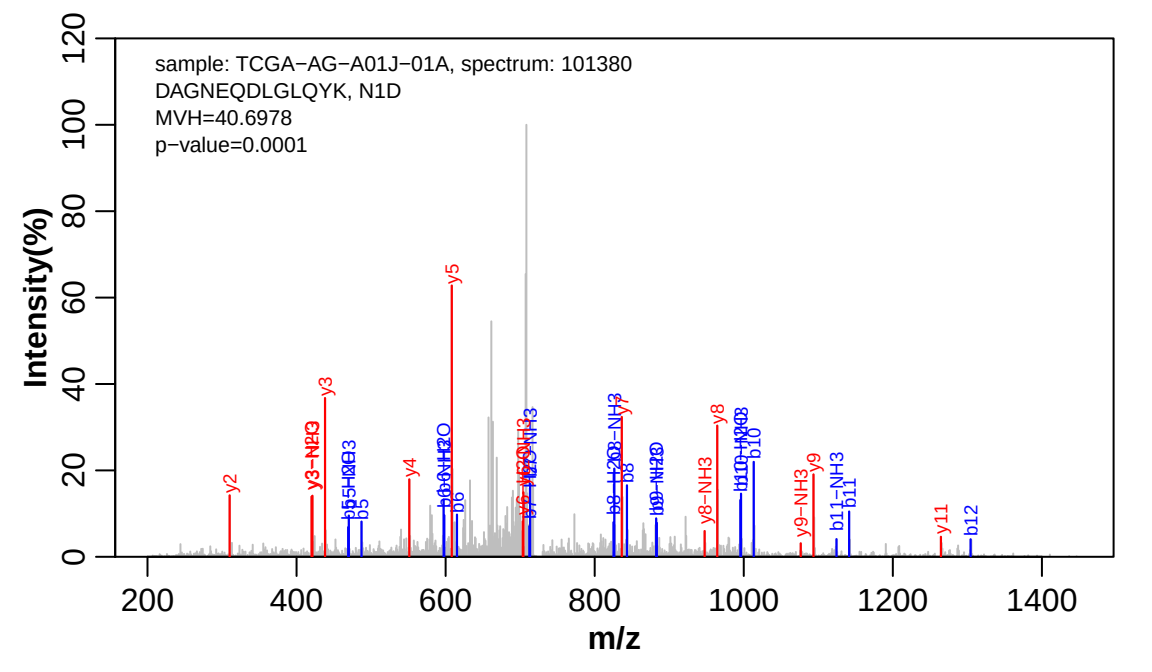

sample: TCGA−AG−A01J−01A, spectrum: 98681
ALDRPYTSK, E3D
MVH=35.3735
p−value=0.0001
Intensity(%)
m/z
y2
y3
b4
y4
y5
b6
y6
b7−H2O
b7
y7
b8

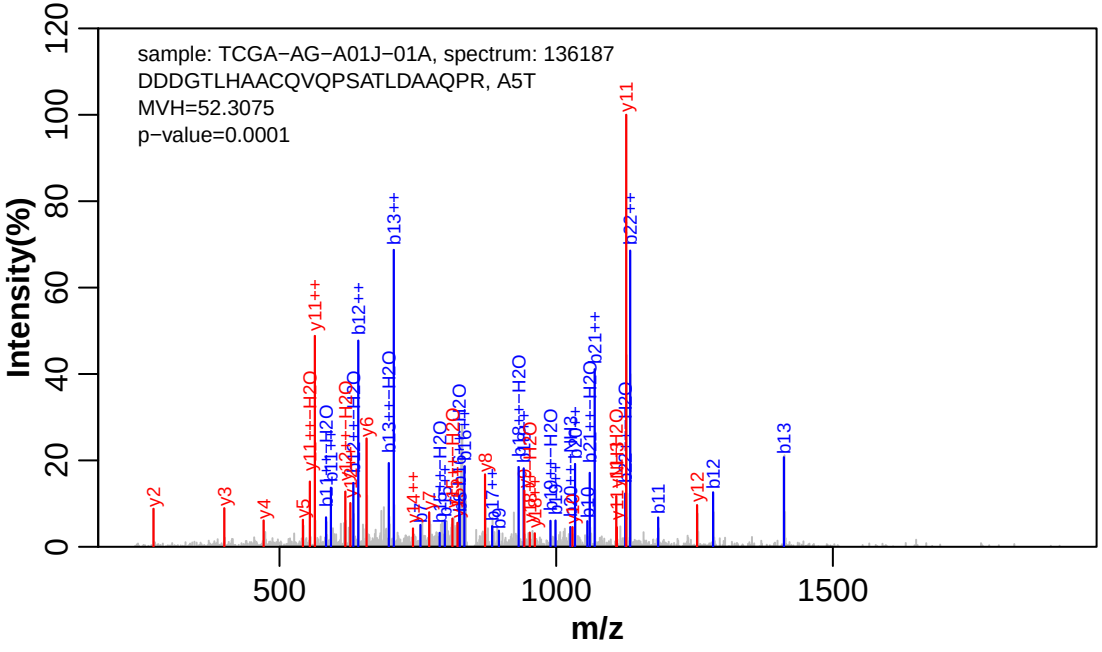

sample: TCGA−AG−A01J−01A, spectrum: 90873
ALFMDCGLHAR, T4M
MVH=47.7915
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b3
y3
b5
y6
y7
b8
y8
b9
y9
b10

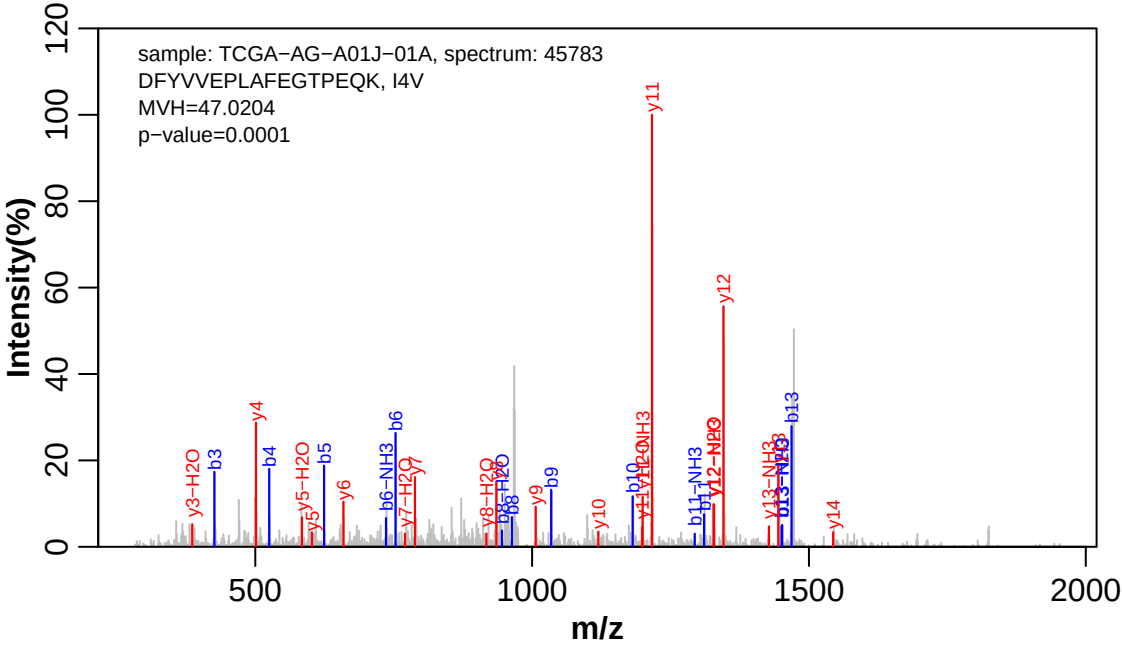

sample: TCGA−AG−A01J−01A, spectrum: 18883
ASSSLLLNESEPTTNLQLR, D8N
MVH=62.7406
p−value=0.0001
Intensity(%)
m/z
y8
y3
y4
y5
b7−H2O
y6
b10−H2O
y9
y10
y11
y12−NH3
y12
y13
y14
b16
b17
b18

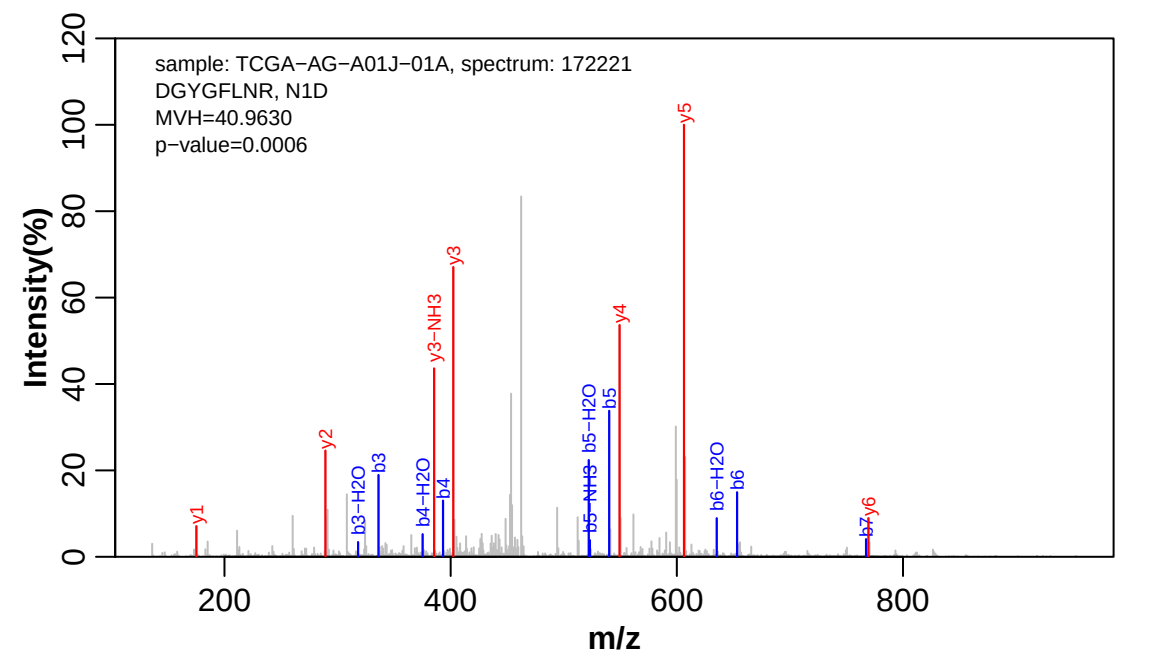

sample: TCGA−AG−A01J−01A, spectrum: 116446
AVEVATVVLQPTVLR, S12T
MVH=33.1574
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
b7−H2O
b7−NH3
b7
b8−H2O
b8
b8−NH3
y7
b9
b9−NH3
b9−H2O
y8−H2O
b10
y10
y9
y11−H2O
y11
b12
b13−H2O
b13
b14
b4
b5−NH3
b5
b6−NH3
b6−H2O
b6

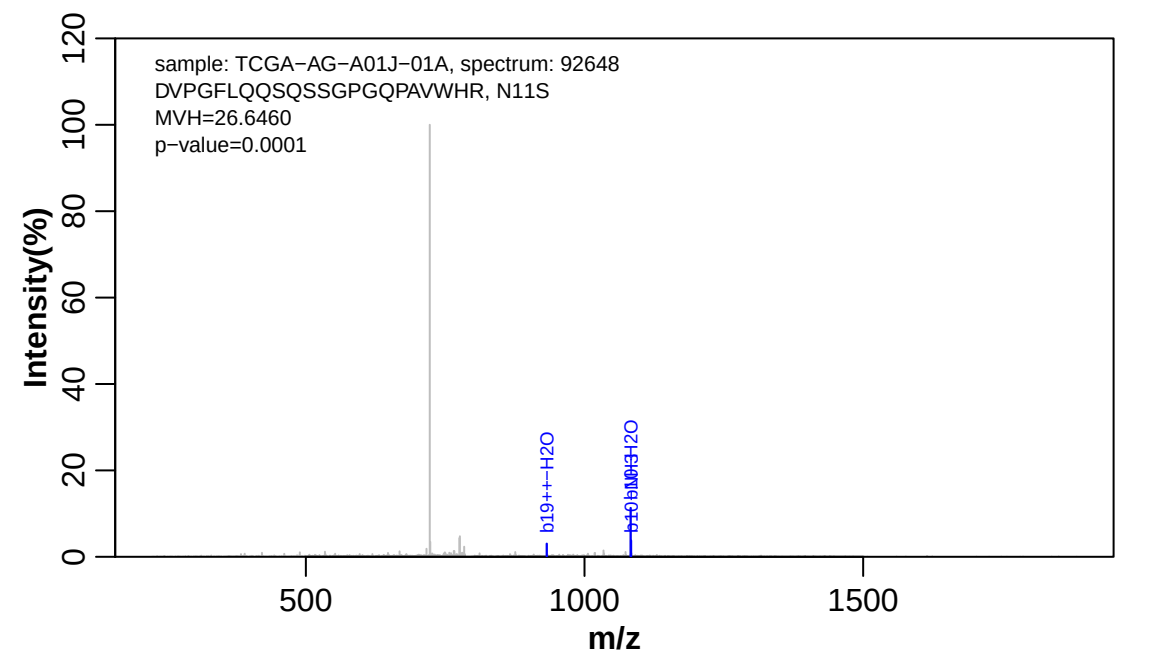

sample: TCGA−AG−A01J−01A, spectrum: 30836
AWLSSQAAELER, V7A
MVH=55.8333
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−H2O
b4
y4
y5
y6−NH3
y6
y7
y8
b9−H2O
b9
y9
b10
y10
b11

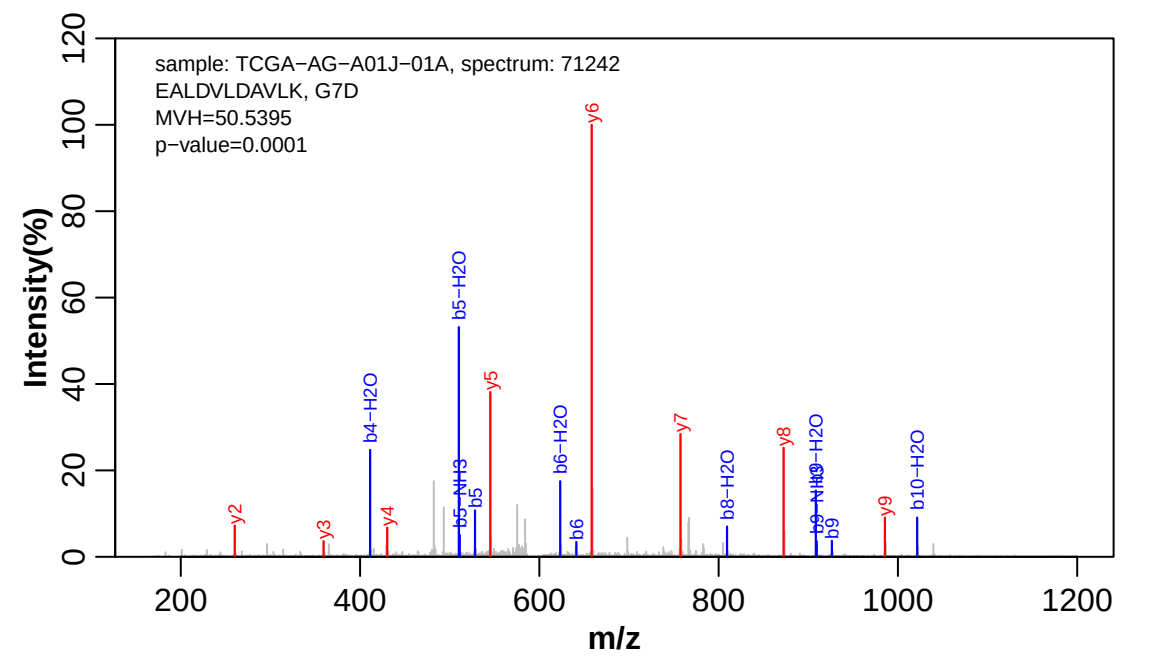

sample: TCGA−AG−A01J−01A, spectrum: 101380
DAGNEQDLGLQYK, N1D
MVH=40.6978
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
y7
y8
y8−NH3
y9
y9−NH3
y11
b5
b6
b8
b10
b11
b11−NH3
b12

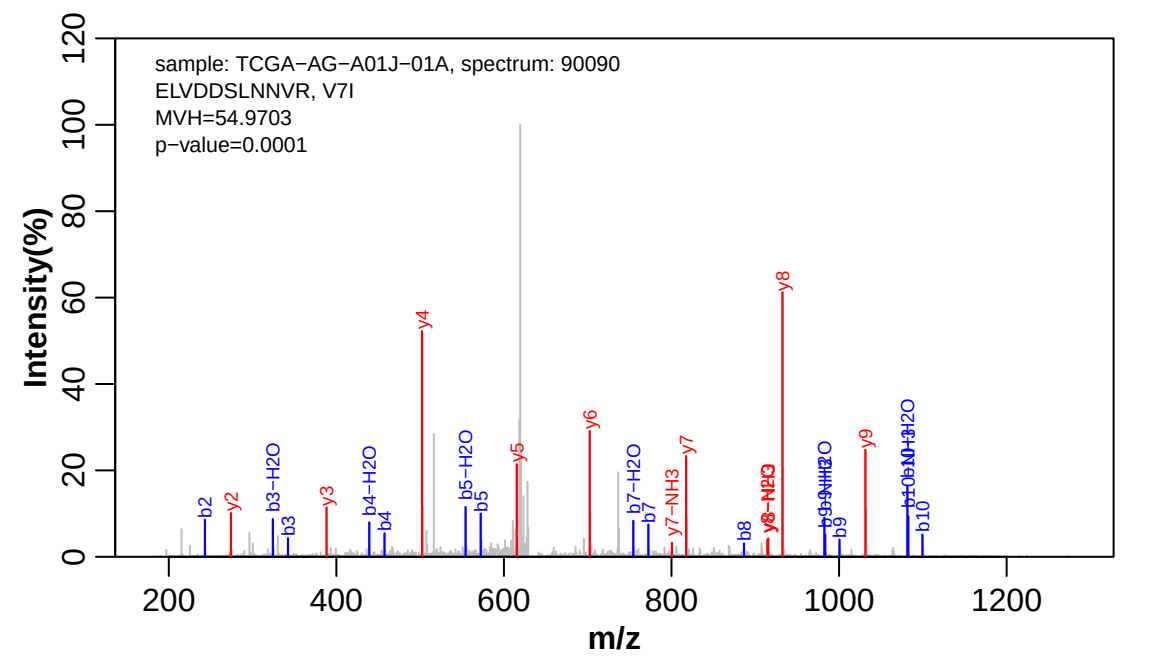

sample: TCGA−AG−A01J−01A, spectrum: 136187
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=52.3075
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y5
y11++
y11++−H2O
y6
b12++
b13++
b13++−H2O
y7
y8
b17++
b18++−H2O
b19++−H2O
b19++−NH3
b21++
b21++−H2O
b22++
y11
b11
y12
b12
b13

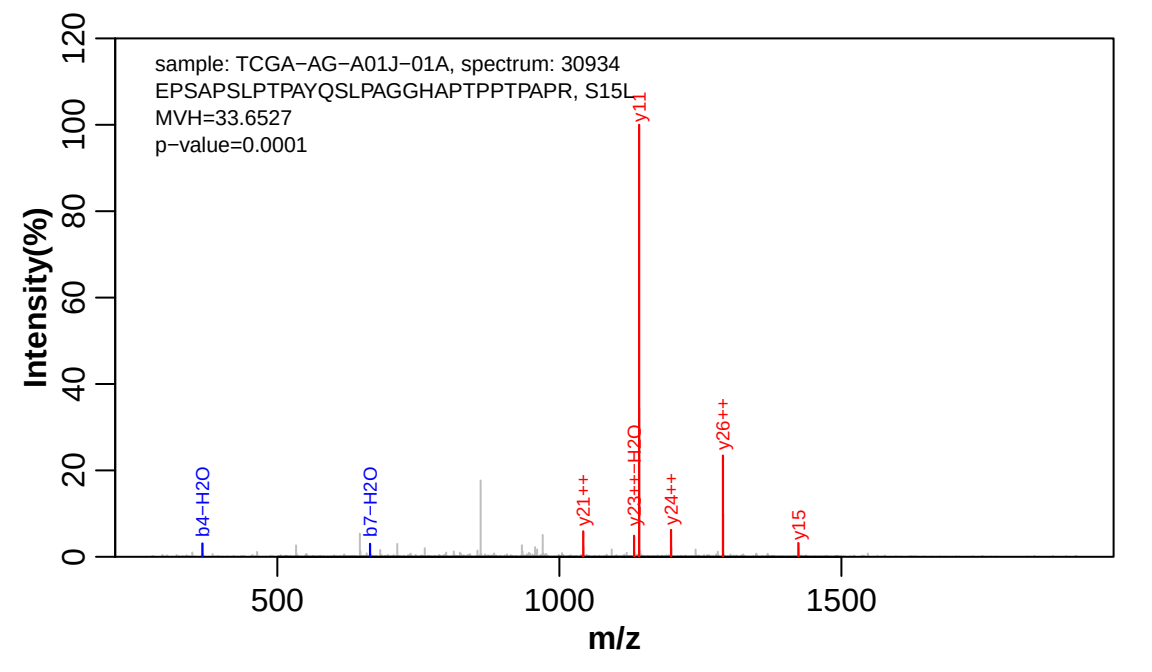

sample: TCGA−AG−A01J−01A, spectrum: 45783
DFYVVEPLAFEGTPEQK, I4V
MVH=47.0204
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3−H2O
b3
y4
b4
y5−H2O
y5
b5
y6
b6−NH3
b6
y7−H2O
y7
y8−H2O
y8
y9
b9
y10
b10
y11
b11−NH3
b11
y12
y12−NH3
y12−NH3
y13−NH3
b13
y14

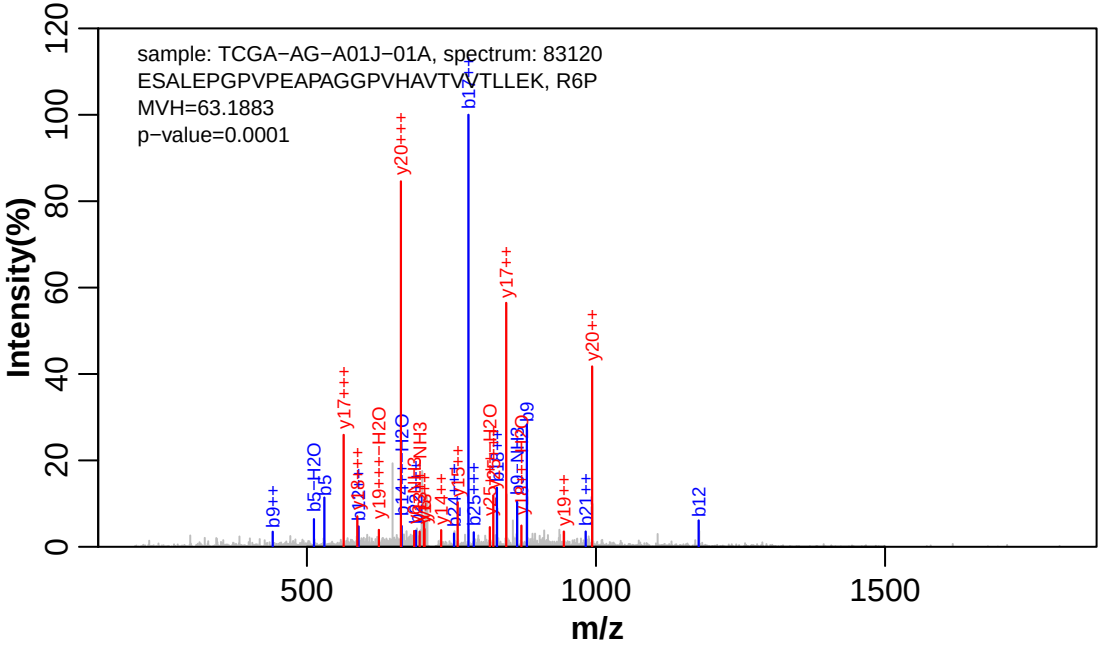

sample: TCGA−AG−A01J−01A, spectrum: 172221
DGYGFLNR, N1D
MVH=40.9630
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

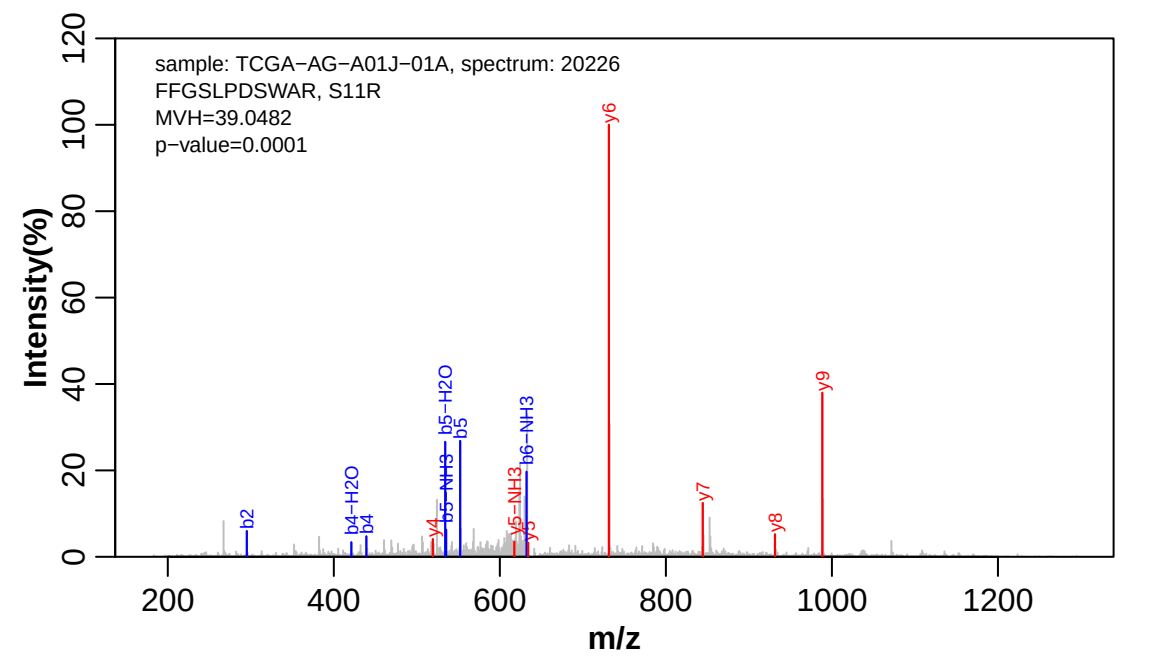

sample: TCGA−AG−A01J−01A, spectrum: 92648
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=26.6460
p−value=0.0001
b19++−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

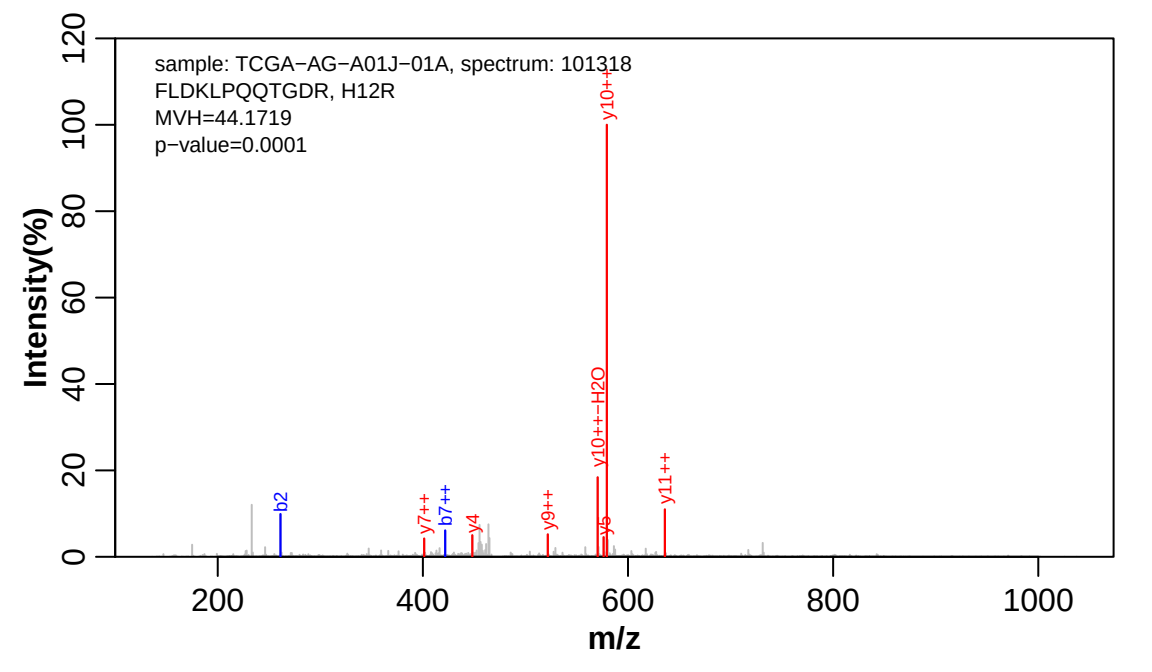

sample: TCGA−AG−A01J−01A, spectrum: 71242
EALDVLDAVLK, G7D
MVH=50.5395
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−H2O
y4
b5−H2O
b5−NH3
b5
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−NH3−H2O
b9−NH3
b9
y9
b10−H2O

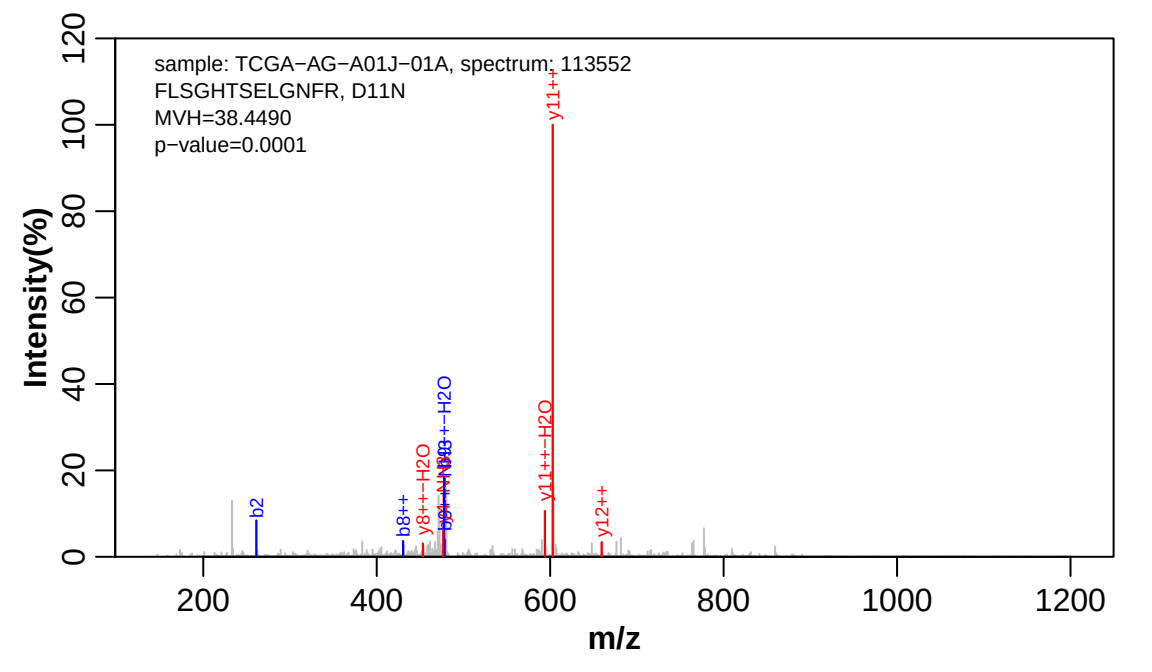

sample: TCGA−AG−A01J−01A, spectrum: 90090
ELVDDSLNNVR, V7I
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7−NH3
y7
b8
y8
b9−NH3
b9
y9
b10−H2O
b10

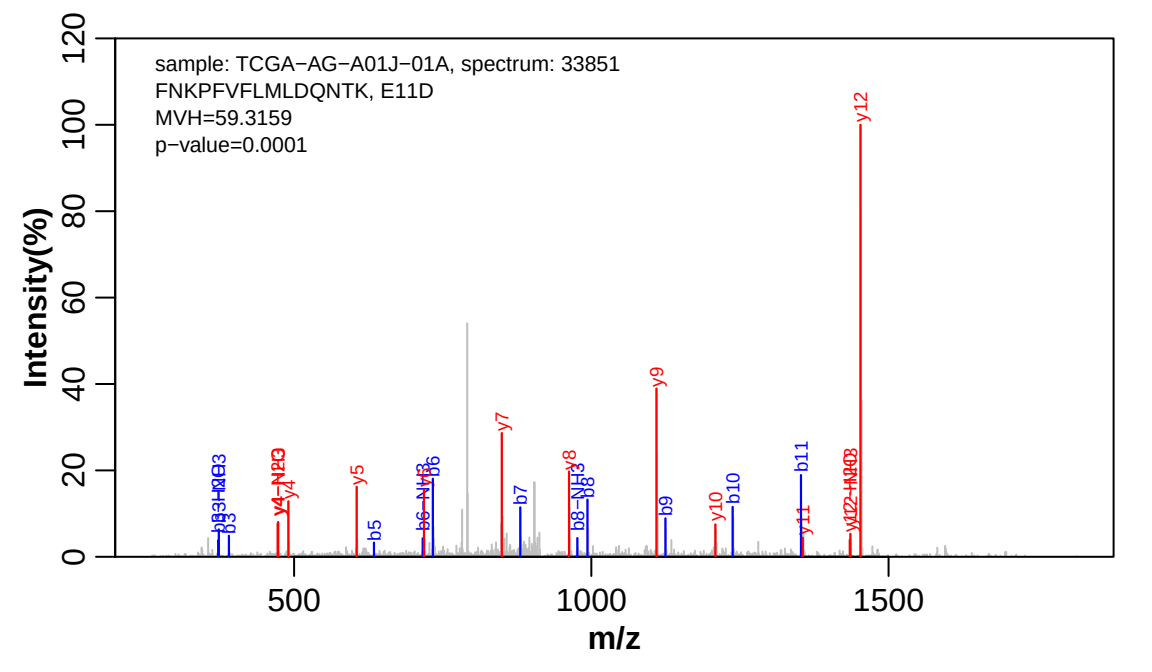

sample: TCGA−AG−A01J−01A, spectrum: 30934
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=33.6527
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
b4−H2O
b7−H2O
y21++
y23++−H2O
y24++
y26++
y11
y15

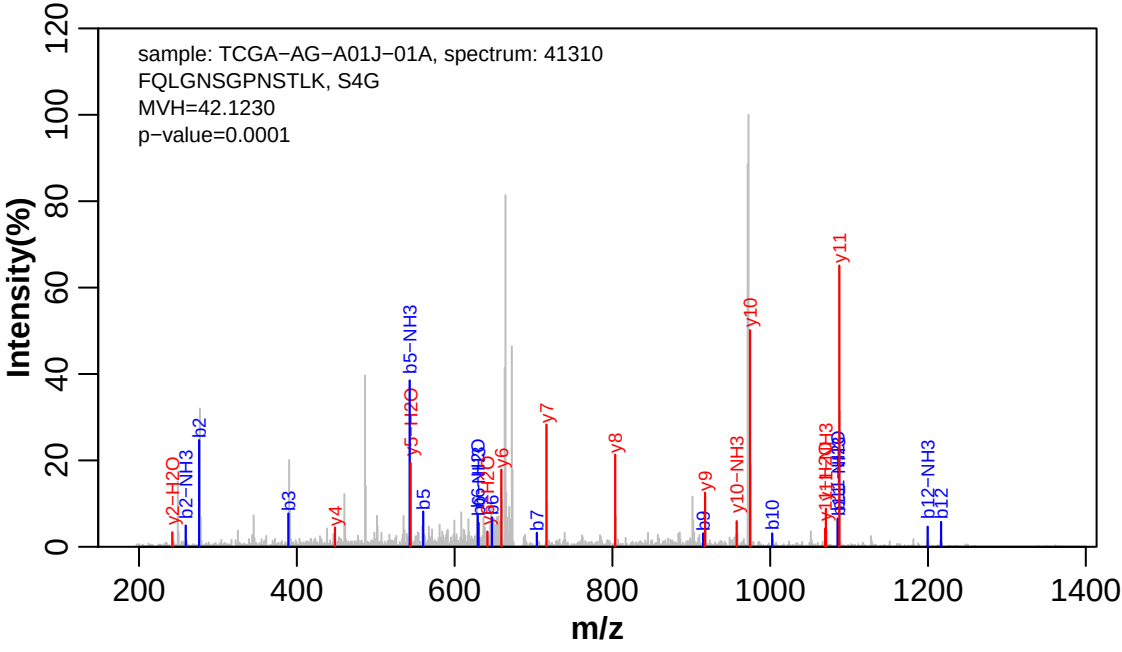

sample: TCGA−AG−A01J−01A, spectrum: 83120
ESALEPGPVPEAPAGGPVHAVTVTLLEK, R6P
MVH=63.1883
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9++
b5−H2O
b5
y17+++
b12++
y19+++−H2O
b11+++−H2O
b11+++−NH3
y14++
b24+++
b25+++
y20+++
b12+++
y17++
y20++
y19++
b21++
b12

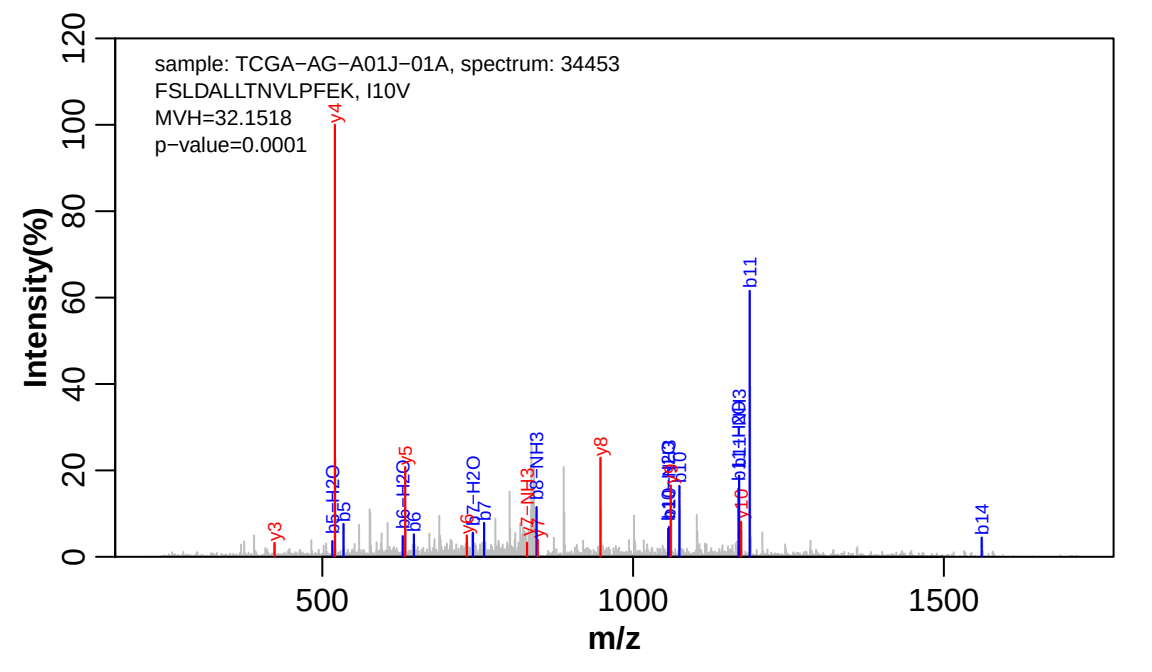

sample: TCGA−AG−A01J−01A, spectrum: 20226
FFGSLPDSWAR, S11R
MVH=39.0482
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
b6−NH3
y6
y7
y8
y9

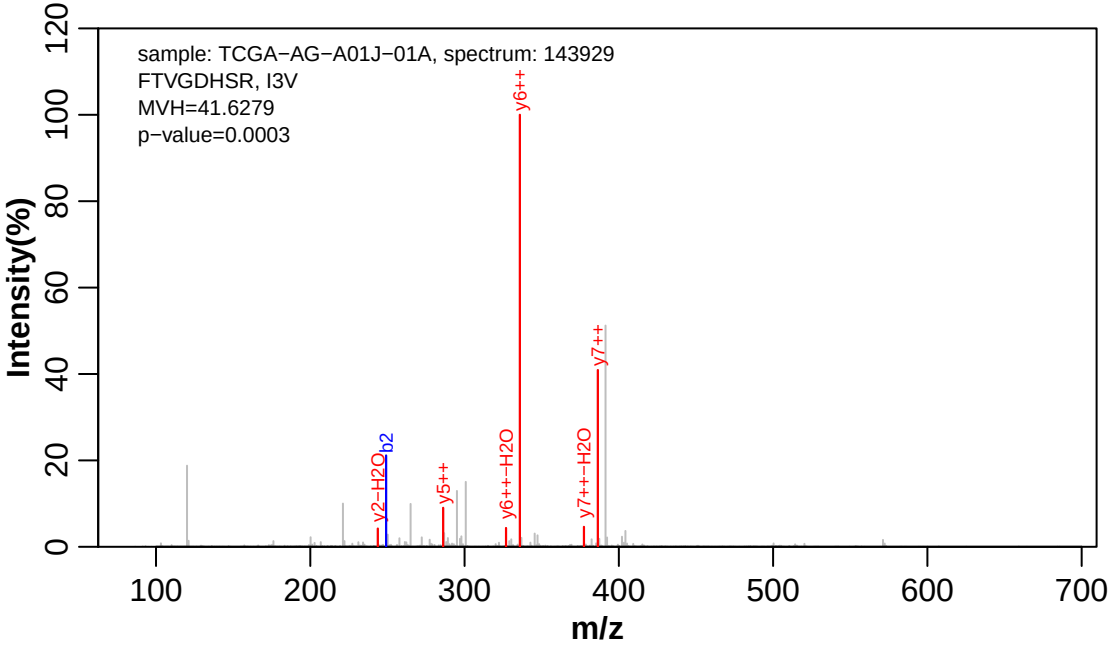

sample: TCGA−AG−A01J−01A, spectrum: 101318
FLDKLPQQTGDR, H12R
MVH=44.1719
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y7++
b7++
y4
y9++
y10++−H2O
y8
y10++
y11++

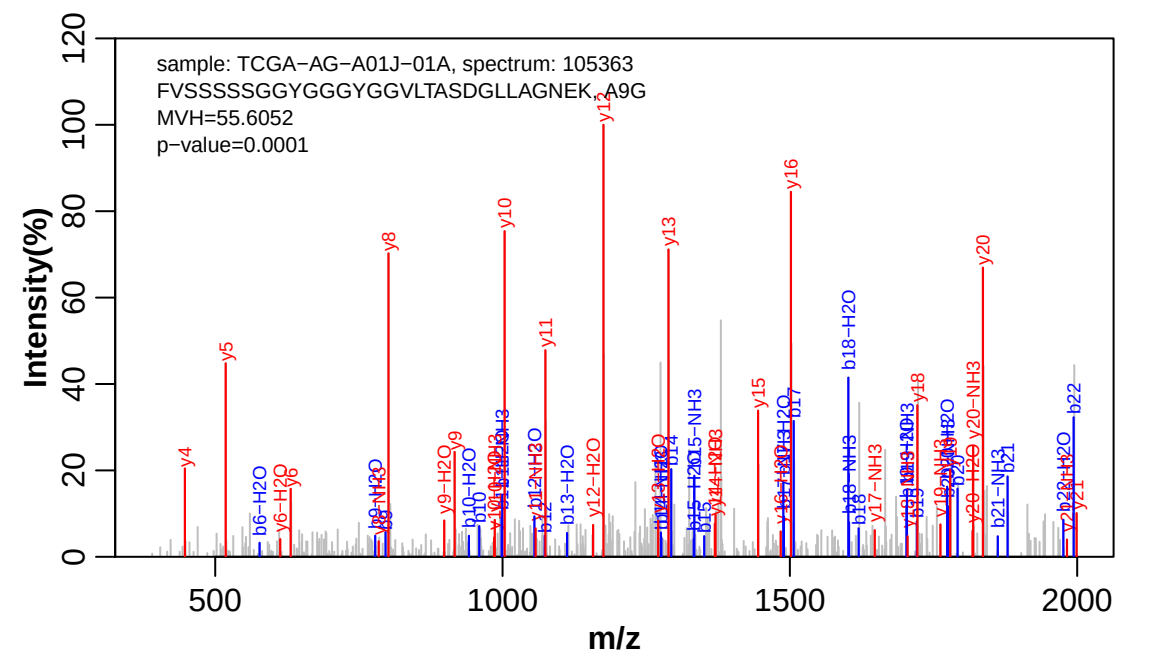

sample: TCGA−AG−A01J−01A, spectrum: 113552
FLSGHTSELGNFR, D11N
MVH=38.4490
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b8++
y8++−H2O
y11++−H2O
y11++
y12++

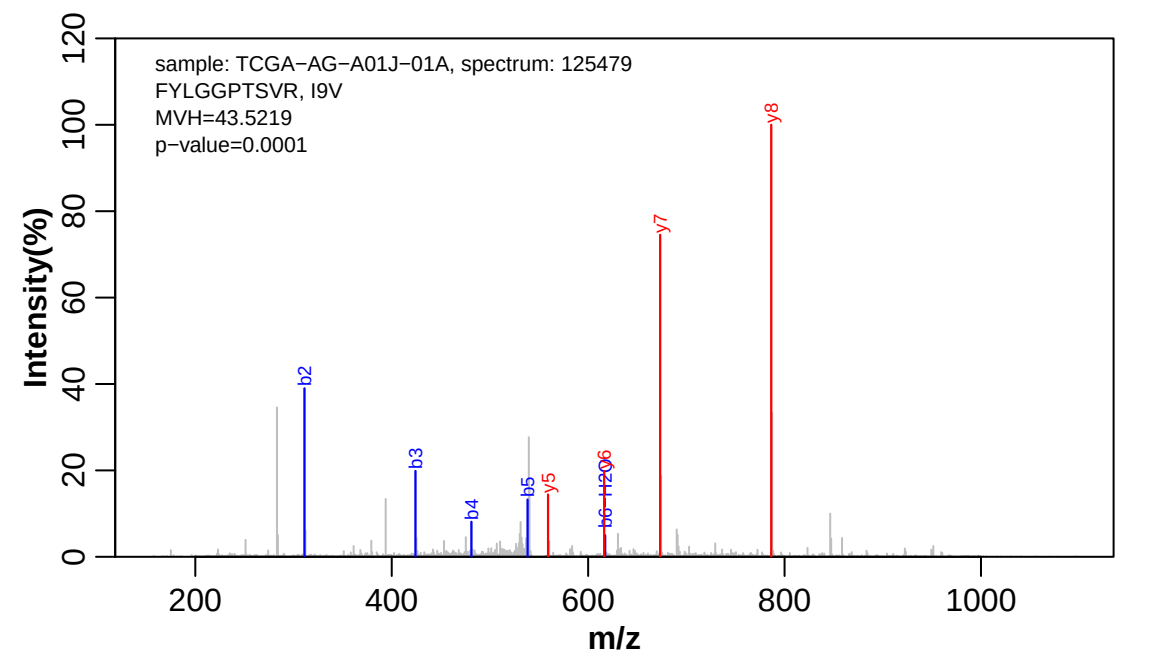

sample: TCGA−AG−A01J−01A, spectrum: 33851
FNKPFVFLMLDQNTK, E11D
MVH=59.3159
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y9
y7
y8
y5
y4
b11
b10
b9
b8
b7
b6
b5
b3
y10
y11

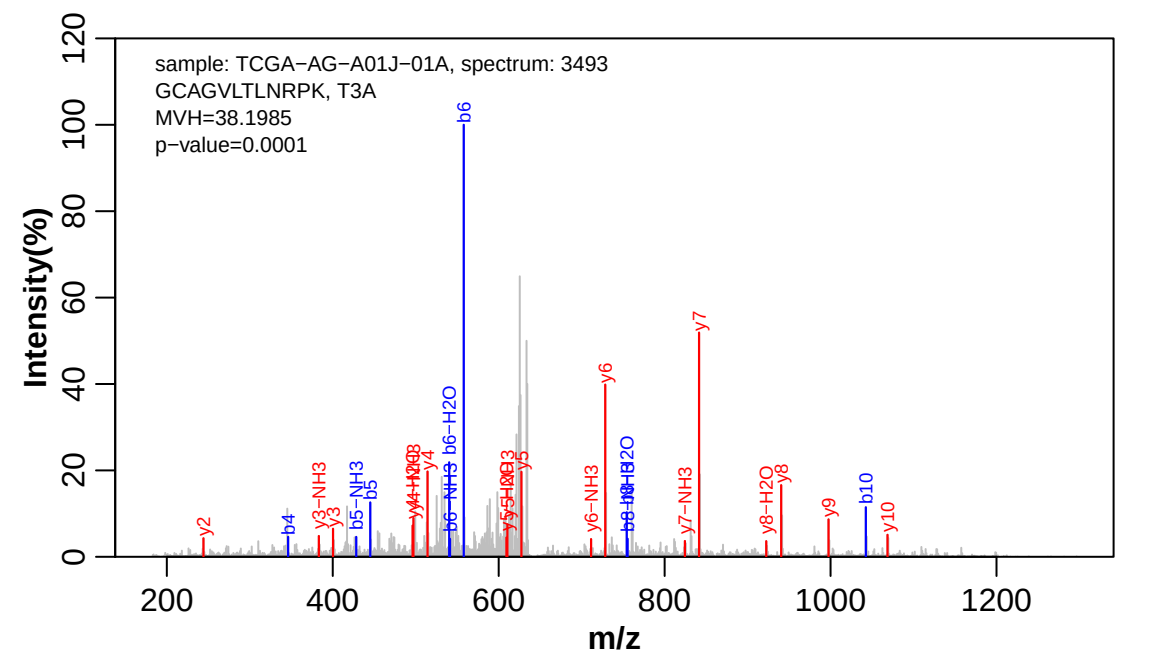

sample: TCGA−AG−A01J−01A, spectrum: 41310
FQLGNSGPNSTLK, S4G
MVH=42.1230
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2−H2O
b2−NH3
b2
b3
y4
b5−NH3
y5−H2O
b5
y6
y7
b7
y8
b9
y9
y10−NH3
y10
b10
y11
b12−NH3
b12

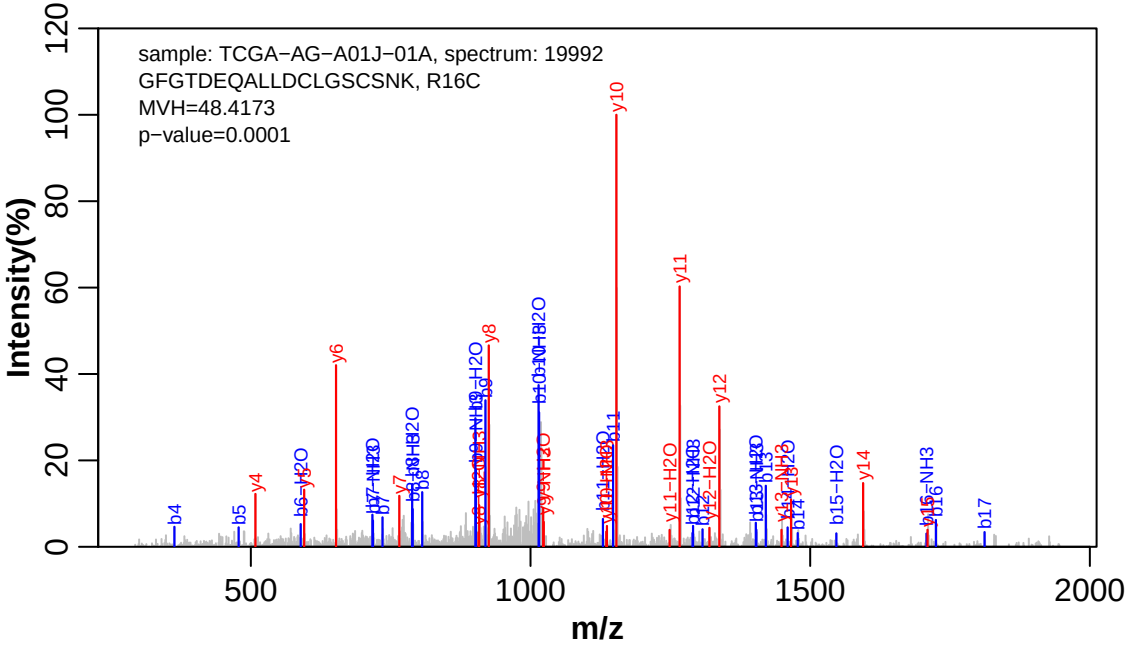

sample: TCGA−AG−A01J−01A, spectrum: 34453
FSLDALLTNVLPFEK, I10V
MVH=32.1518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y3
y8
b11
b14
b5−H2O
b5
b6−H2O
y5
b6
y6
y6−H2O
b7
y7−NH3
b8−NH3
y7
b10
y10
b11−H2O
b11−NH3

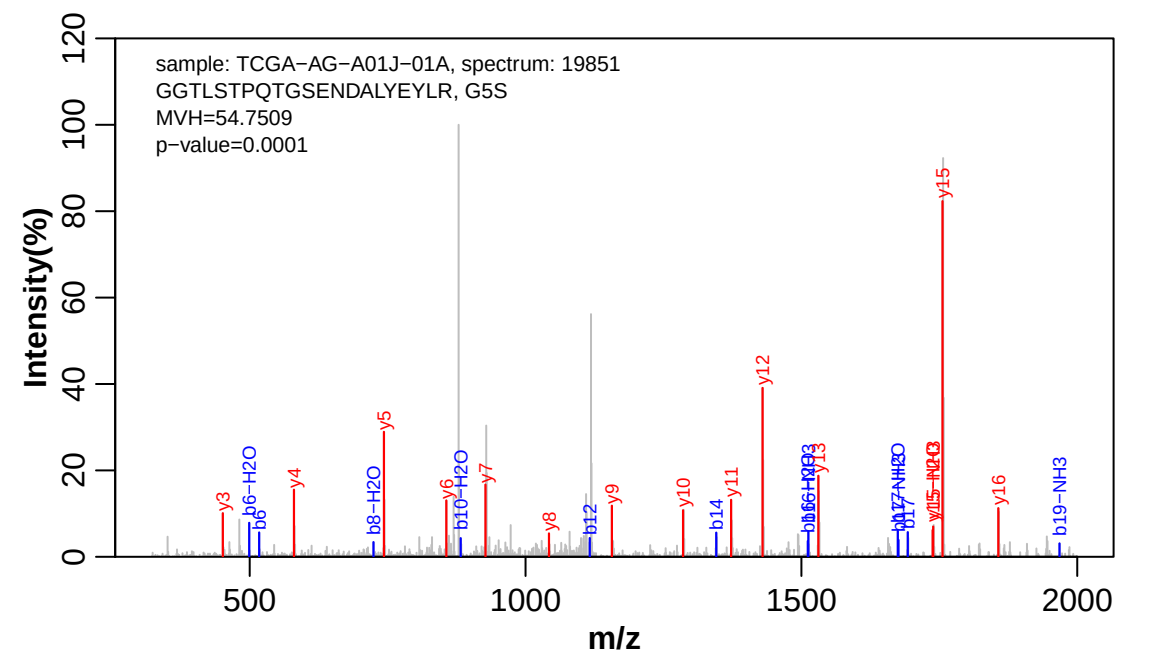

sample: TCGA−AG−A01J−01A, spectrum: 143929
FTVGDHSR, I3V
MVH=41.6279
p−value=0.0003
y6++
y7++
y2−H2O
b2
y5++
y6++−H2O
y7++−H2O
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
m/z

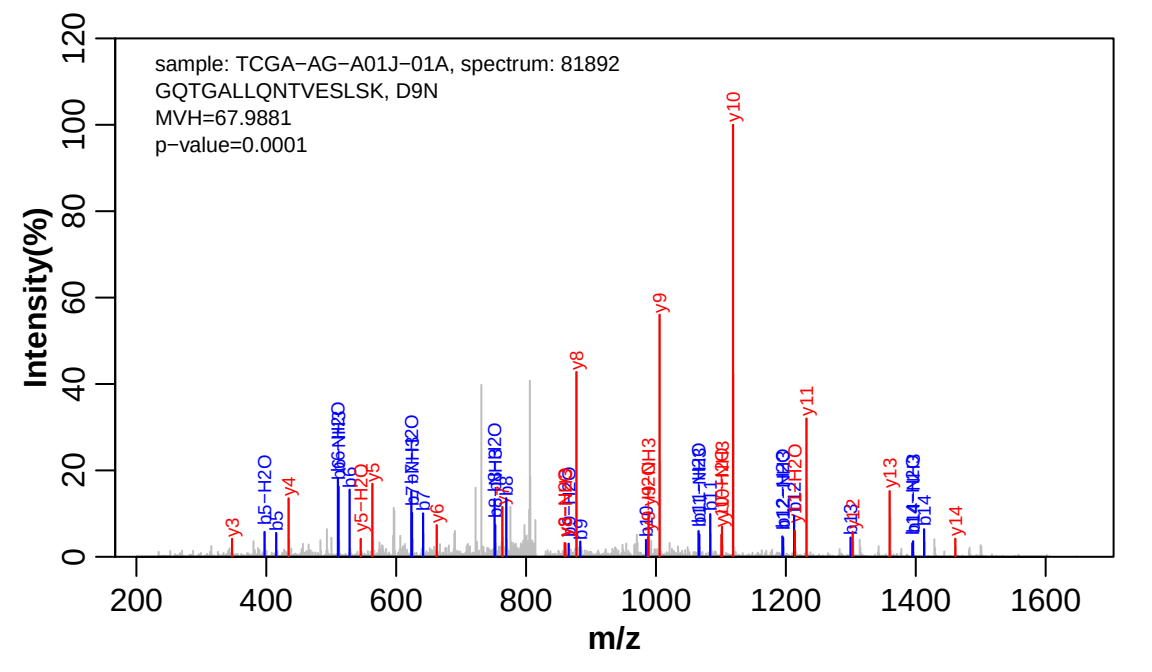

sample: TCGA−AG−A01J−01A, spectrum: 105363
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=55.6052
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y4
y5
y6
b6−H2O
y6−H2O
y8
y8−NH3
b8
y9−H2O
y9
b10−H2O
b10
y10
b12
b12−NH2
b13−H2O
y11
y12−H2O
y12
b14
b15−H2O
b15−NH3
y13
y14
y15
b17
y16
b18−H2O
b18−NH3
b18
y17−NH3
y18
y18−NH3
y18−H2O
b20
y20−H2O
y20−NH3
y20
b21−NH3
b21
b22
y21
b23−H2O

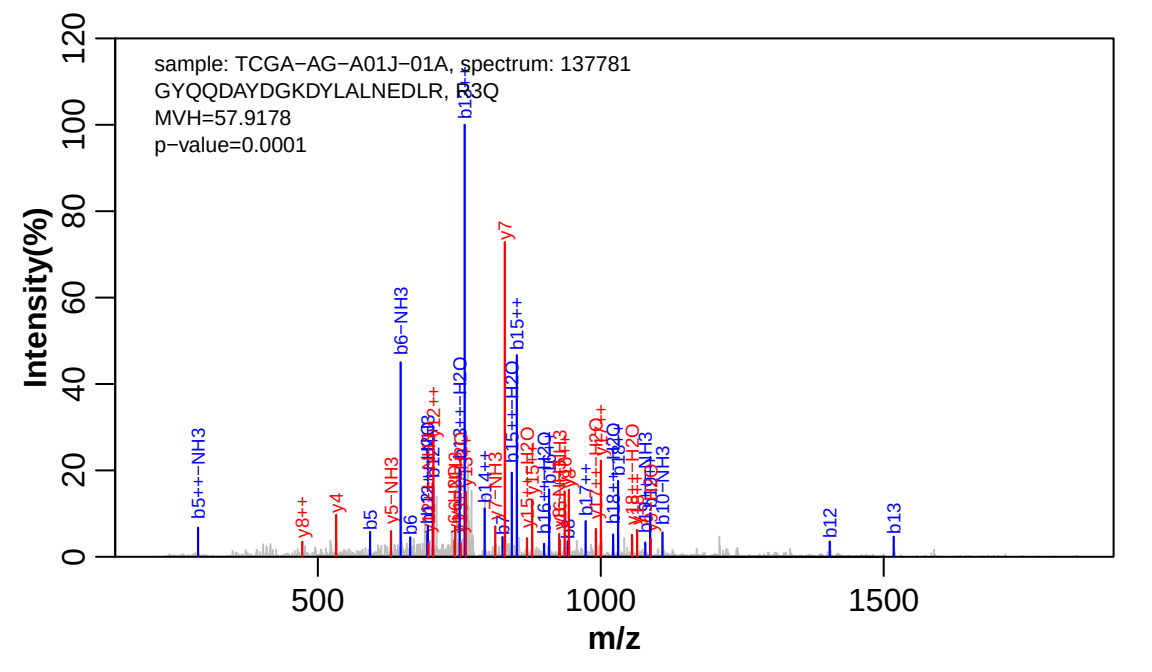

sample: TCGA−AG−A01J−01A, spectrum: 125479
FYLGGPTSVR, I9V
MVH=43.5219
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

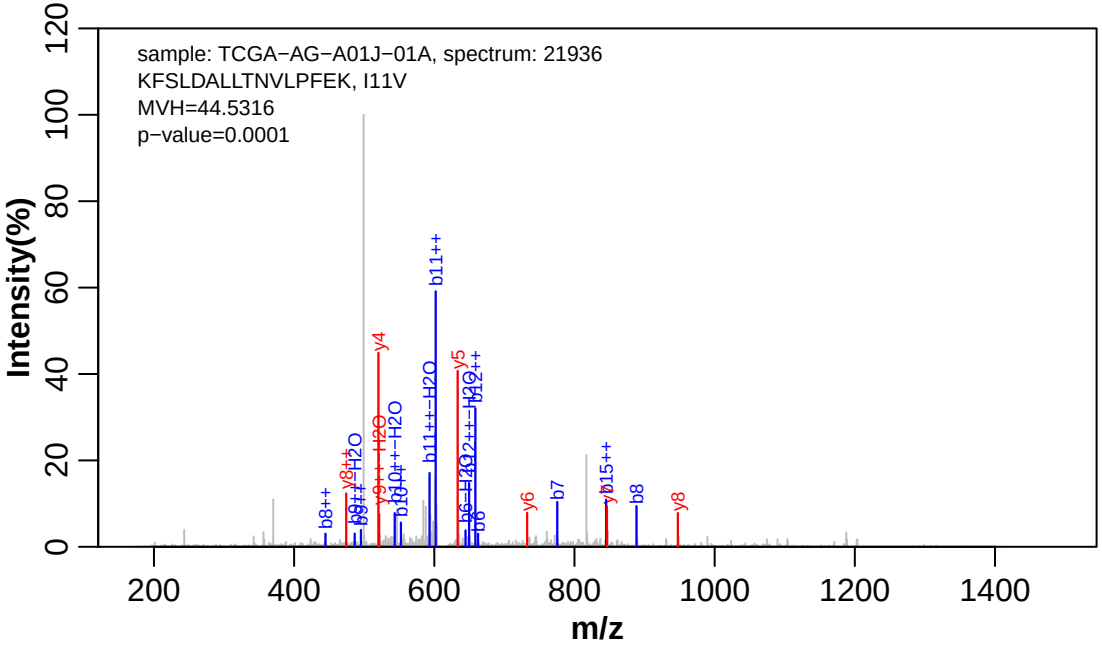

sample: TCGA−AG−A01J−01A, spectrum: 3493
GCAGVLTLNRPK, T3A
MVH=38.1985
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b6
b6−H2O
b6−NH3
y7
y6
y6−NH3
y7−NH3
y8
y8−H2O
y9
b10
y10
y5
y4
y3
y3−NH3
b5
b5−NH3
y2
b4

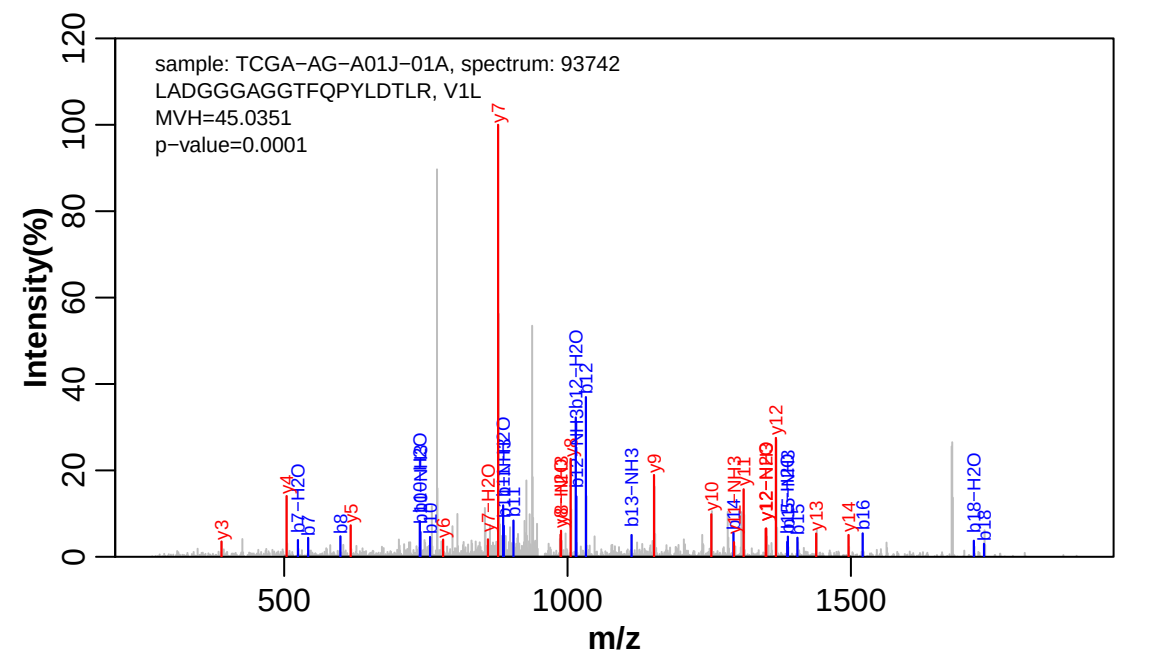

sample: TCGA−AG−A01J−01A, spectrum: 19992
GFGTDEQALLDCLGSCSNK, R16C
MVH=48.4173
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y6
y8
y12
y4
y7
y14
b4
b5
b6−H2O
b15−H2O
b15−NH3
b16
b17

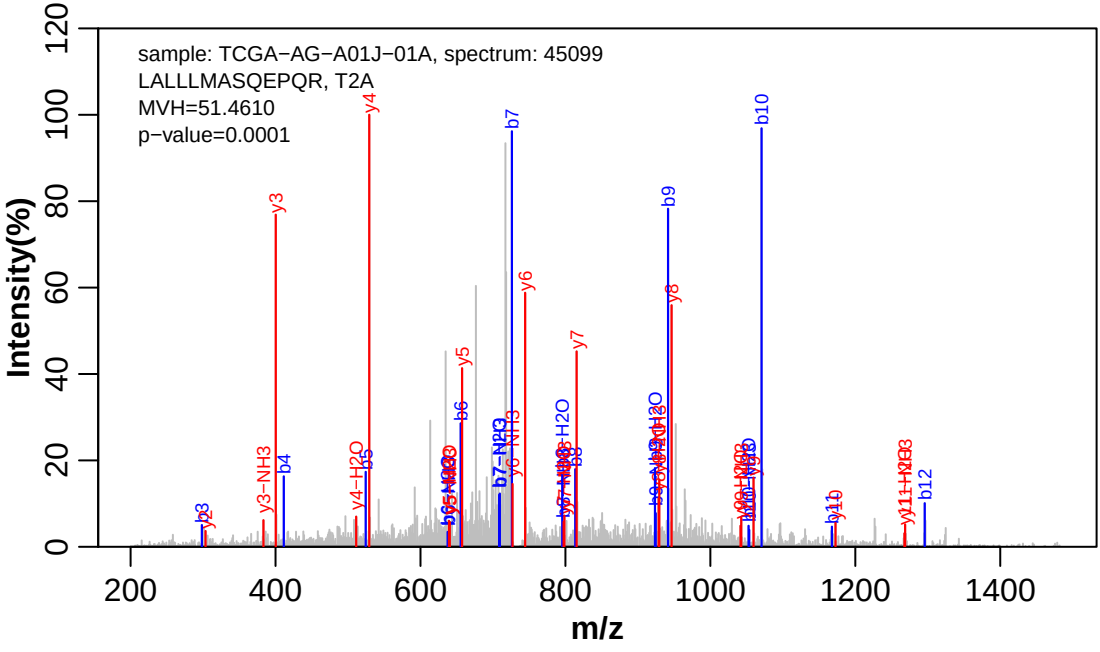

sample: TCGA−AG−A01J−01A, spectrum: 19851
GGTLSTPQTGSENDALYEYLR, G5S
MVH=54.7509
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y3
b6−H2O
b6
y4
b8−H2O
y5
y6
b10−H2O
y7
y8
b12
y9
y10
b14
y11
y12
y13
y15
y16
b19−NH3

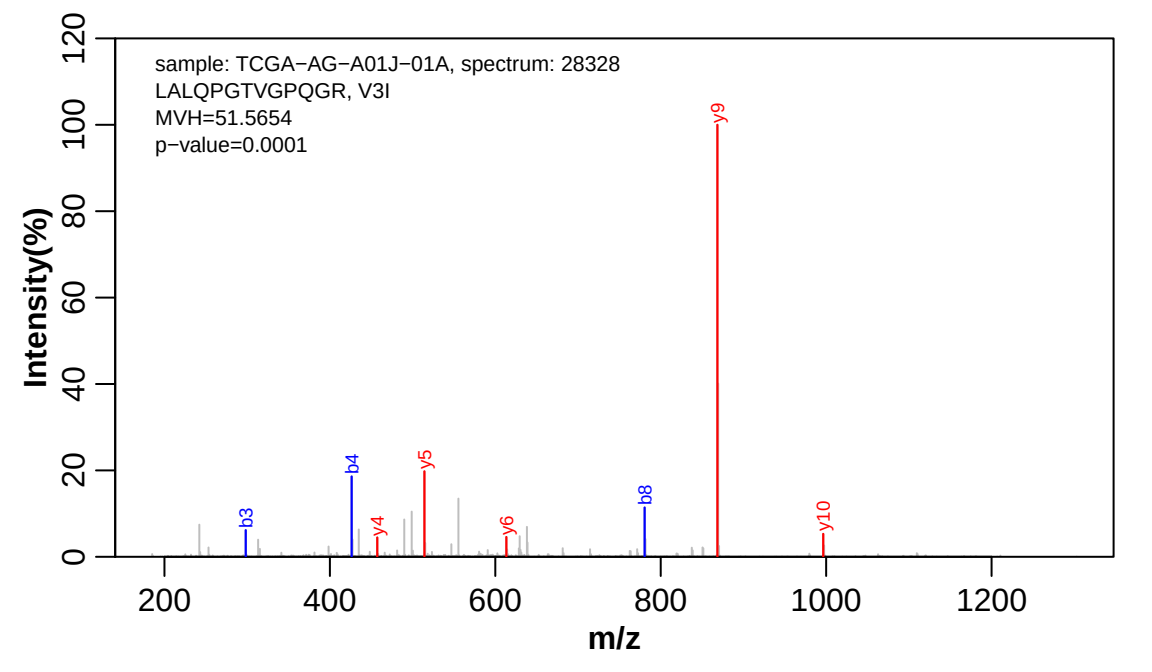

sample: TCGA−AG−A01J−01A, spectrum: 81892
GQTGALLQNTVESLSK, D9N
MVH=67.9881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y3
y4
y5
y6
b5−H2O
b5
y5−H2O

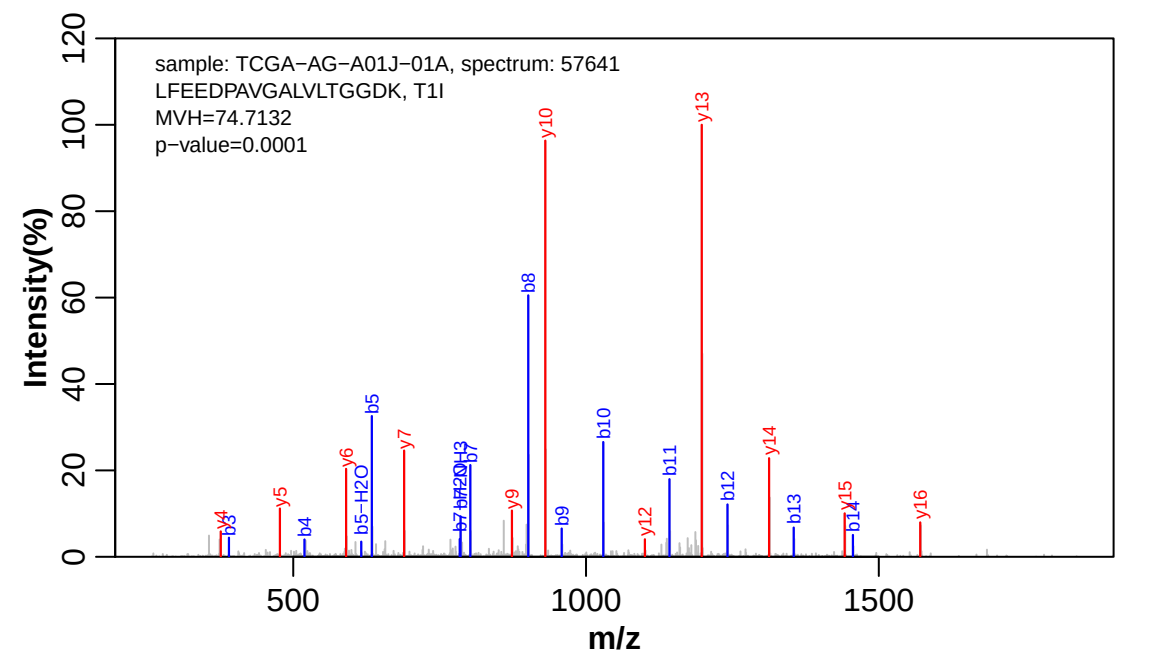

sample: TCGA−AG−A01J−01A, spectrum: 137781
GYQQDAYDGKDYLALNEDLR, R3Q
MVH=57.9178
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5++−NH3
y8++
y4
b5
y5−NH3
b6
b6−NH3
b12++
b13++−H2O
b14++
y7−NH3
b15++
y7
b15++−H2O
b17++
b18++
b10−NH3
b12
b13

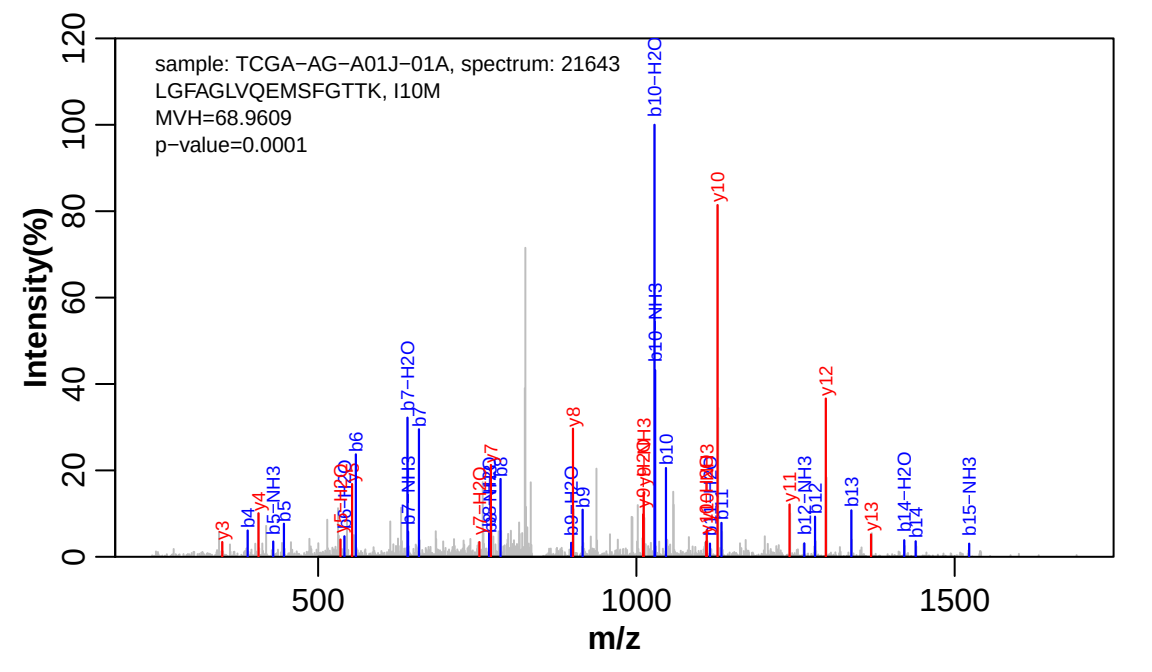

sample: TCGA−AG−A01J−01A, spectrum: 21936
KFSLDALLTNVLPFEK, I11V
MVH=44.5316
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b8++
y8++
y8++−H2O
y9++−H2O
b10++−H2O
b11++−H2O
b11++
y4
y5
b12++
y6
b7
y15++
b8
y8

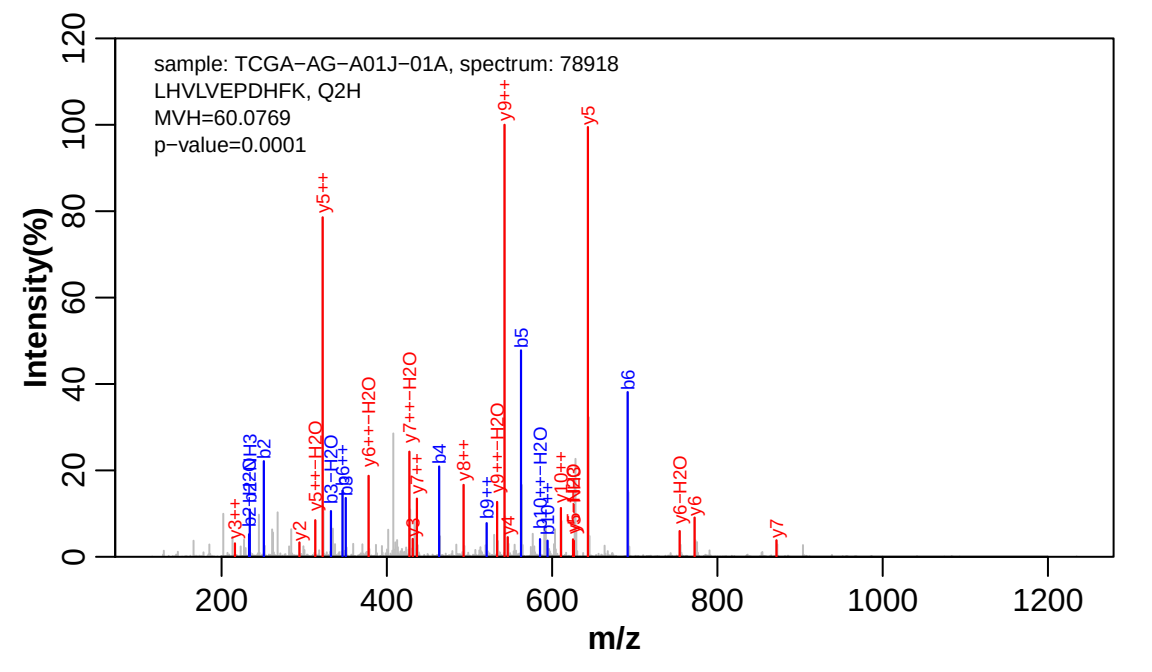

sample: TCGA−AG−A01J−01A, spectrum: 93742
LADGGGAGGTFQPYLDTLR, V1L
MVH=45.0351
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b8
y5
y6
y7−H2O
b12−H2O
b13−NH3
y9
y10
y11
y12
b15
y13
y14
b16
b18−H2O

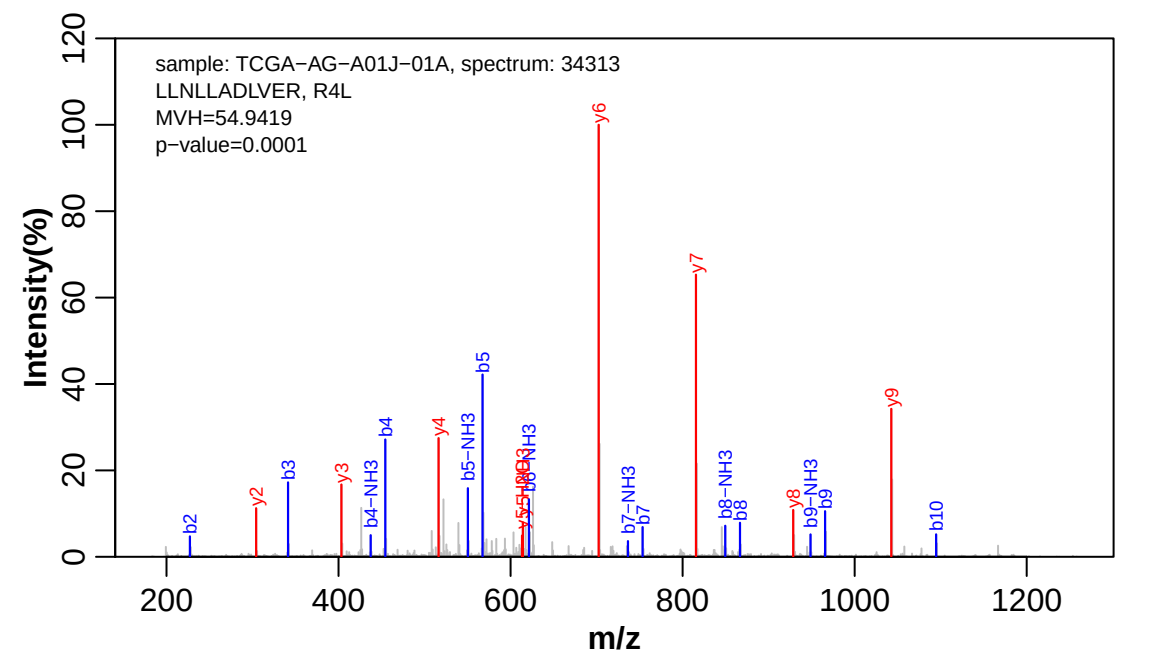

sample: TCGA−AG−A01J−01A, spectrum: 45099
LALLLMASQEPQR, T2A
MVH=51.4610
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y4
b7
b10
y3
b9
y6
y8
y5
y7
b6
b4
b5
b12
y2
b2
b3
y11
y10

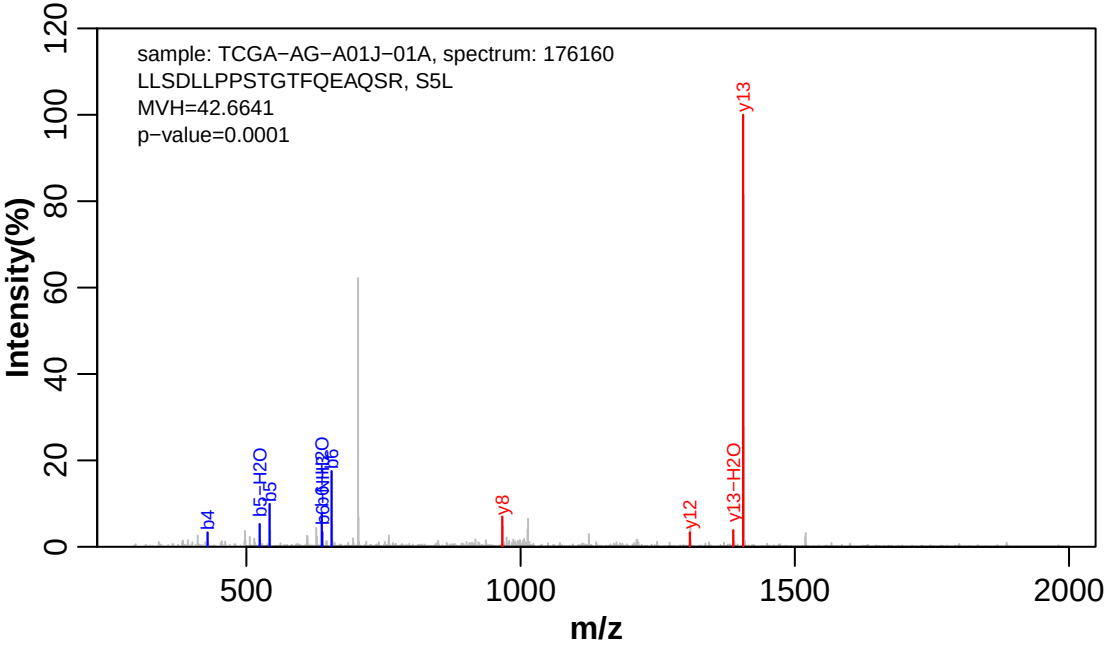

sample: TCGA−AG−A01J−01A, spectrum: 28328
LALQPGTVGPQGR, V3I
MVH=51.5654
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b3
b4
y4
y5
y6
b8
y9
y10

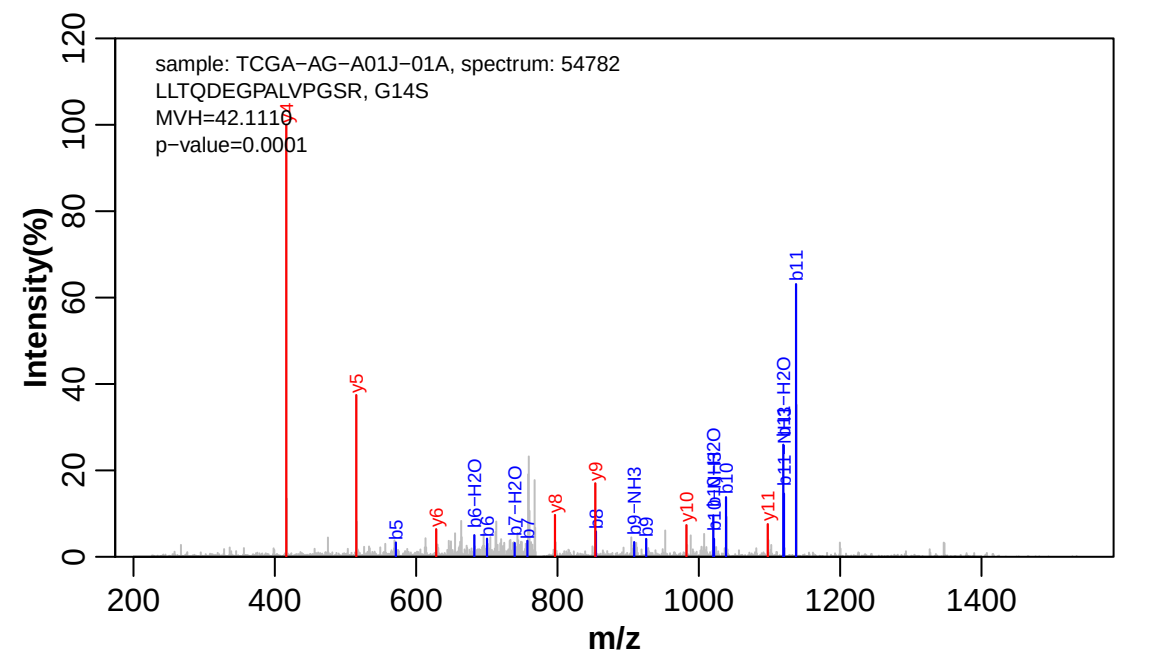

sample: TCGA−AG−A01J−01A, spectrum: 57641
LFEEDPAVGALVLTGGDK, T1I
MVH=74.7132
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y13
y10
b8
b5
y7
y6
b5−H2O
b10
b11
y14
b12
b13
y15
y16
y5
b4
y9
b9
y12
b14
b3
y4

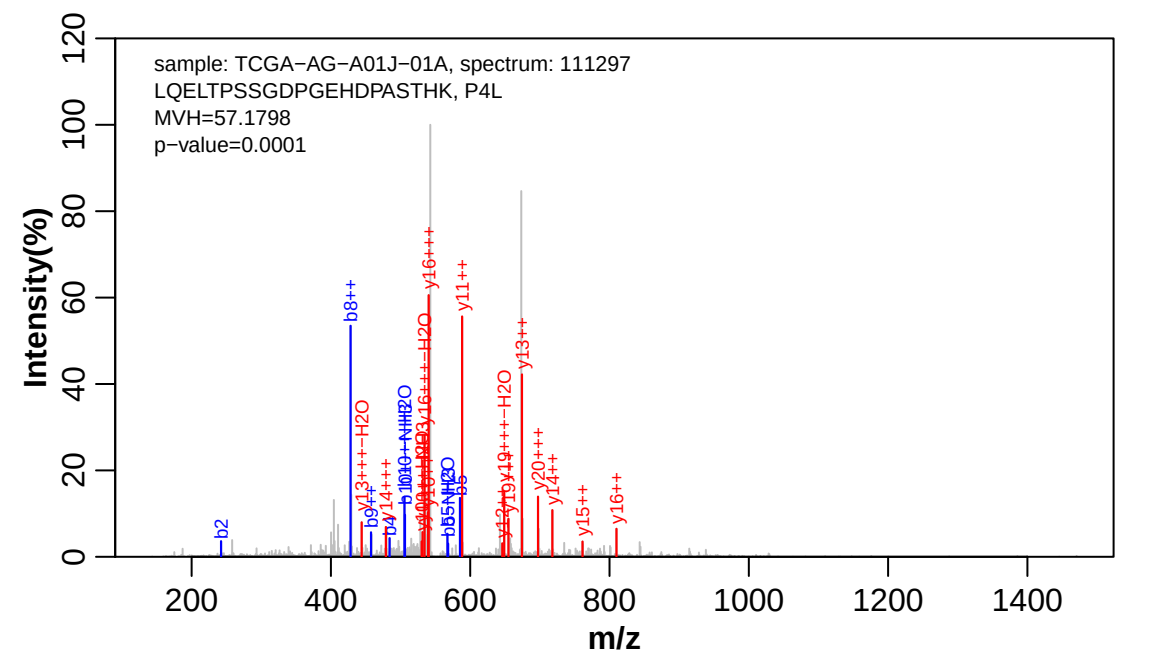

sample: TCGA−AG−A01J−01A, spectrum: 21643
LGFAGLVQEMSFGTTK, I10M
MVH=68.9609
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b10−H2O
y10
b10−NH3
b7−H2O
y12
y8
b7−NH3
b6
b10
y11
b13
b12−NH3
y13
b14−H2O
b15−NH3
y3
b4
y4
b5−NH3
b5

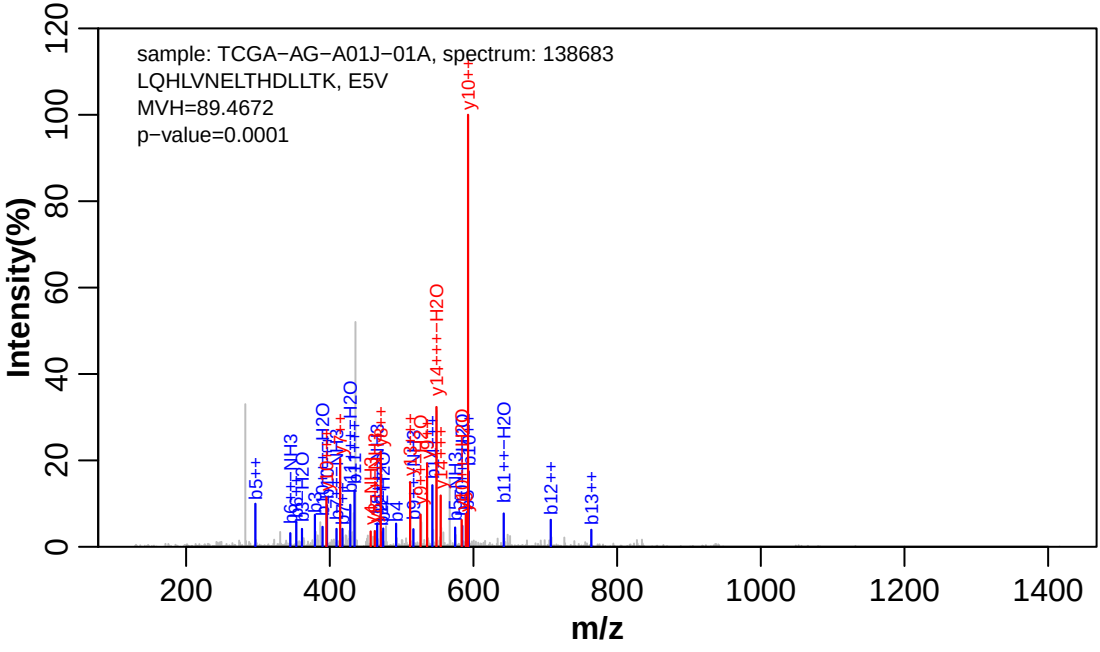

sample: TCGA−AG−A01J−01A, spectrum: 78918
LHVLVEPDHFK, Q2H
MVH=60.0769
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9++
y5
y5++
b5
b6
y6++−H2O
y7++−H2O
b4
y8++
y9++−H2O
b9++
y4
y6−H2O
y6
y7
y3++
y2
b2
y5++−H2O
b3−H2O
y3
y7++
y5−NH3

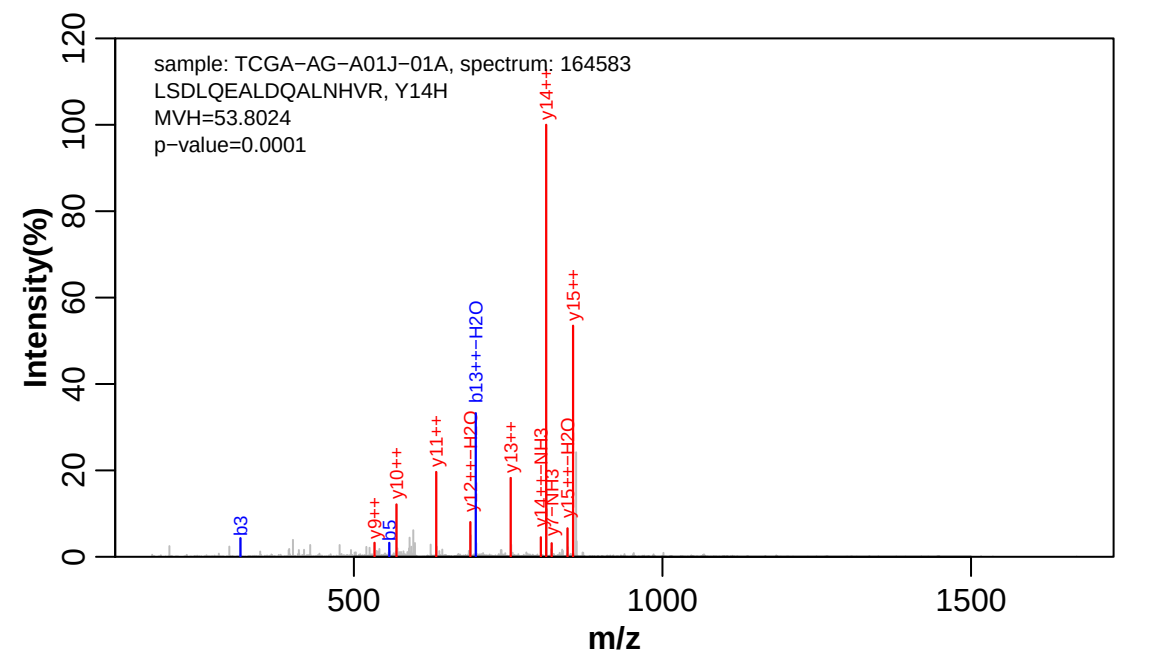

sample: TCGA−AG−A01J−01A, spectrum: 34313
LLNLLADLVER, R4L
MVH=54.9419
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b6−NH3
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

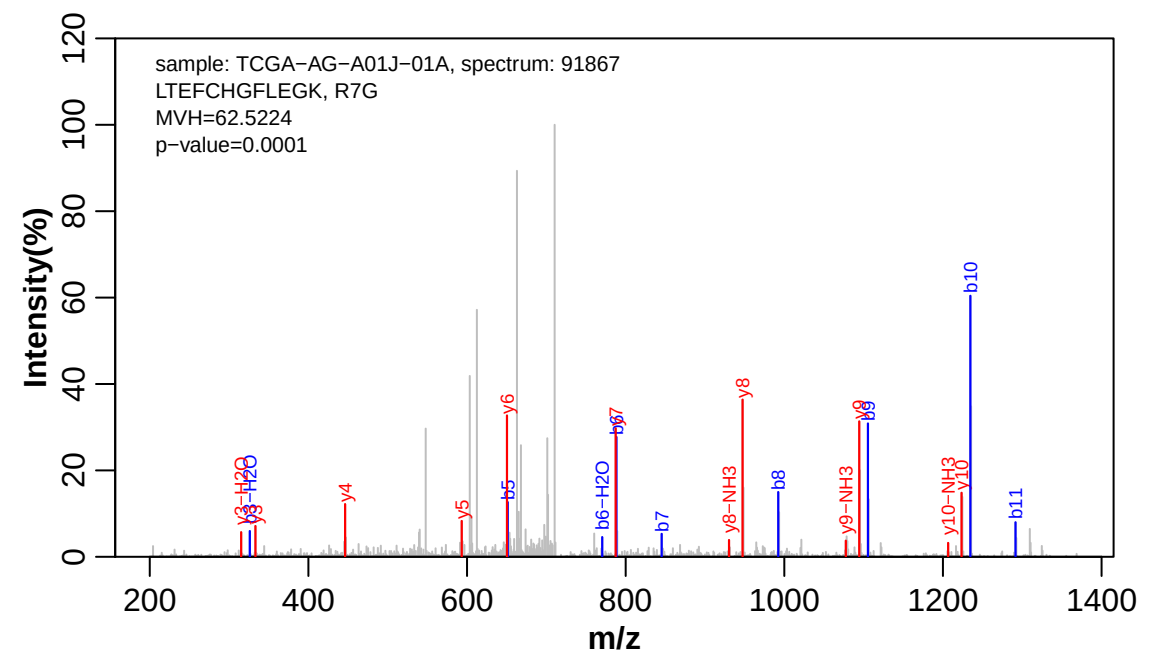

sample: TCGA−AG−A01J−01A, spectrum: 176160
LLSDLLPPSTGTFQEAQSR, S5L
MVH=42.6641
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b4
b5−H2O
b5
b6
y8
y12
y13−H2O
y13

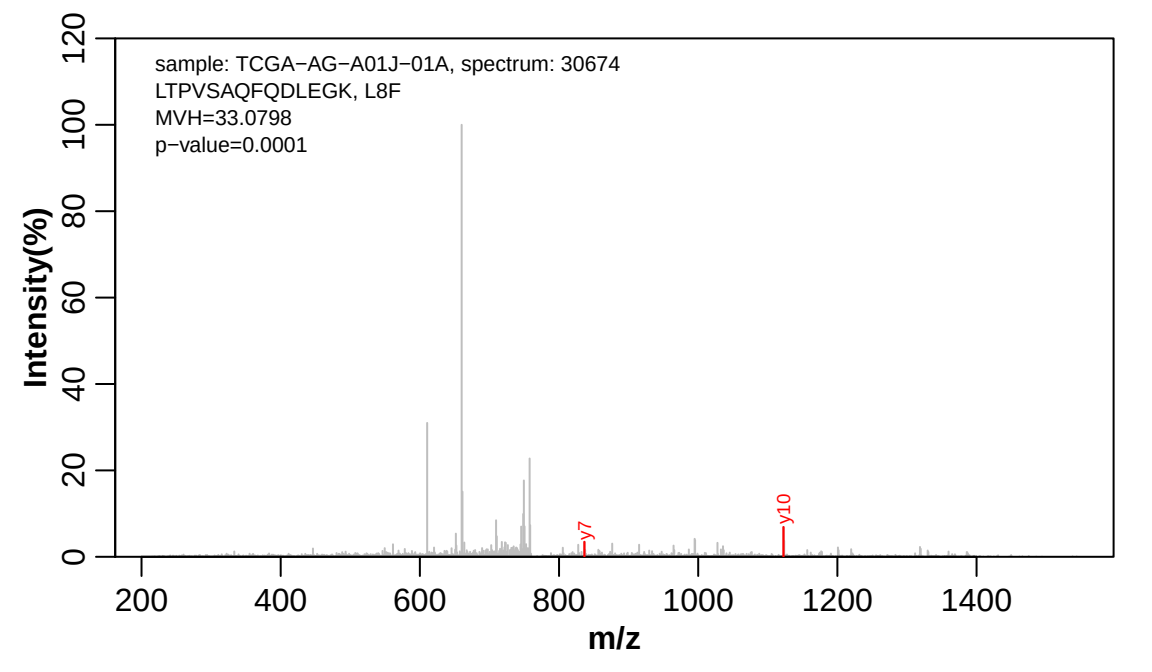

sample: TCGA−AG−A01J−01A, spectrum: 54782
LLTQDEGPALVPGSR, G14S
MVH=42.1116
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y1
y5
y6
b5
b6
b6−H2O
b7
b7−H2O
y8
y9
b8
b9
b9−NH3
y10
b10
b10−H2O
y11
b11
b11−H2O

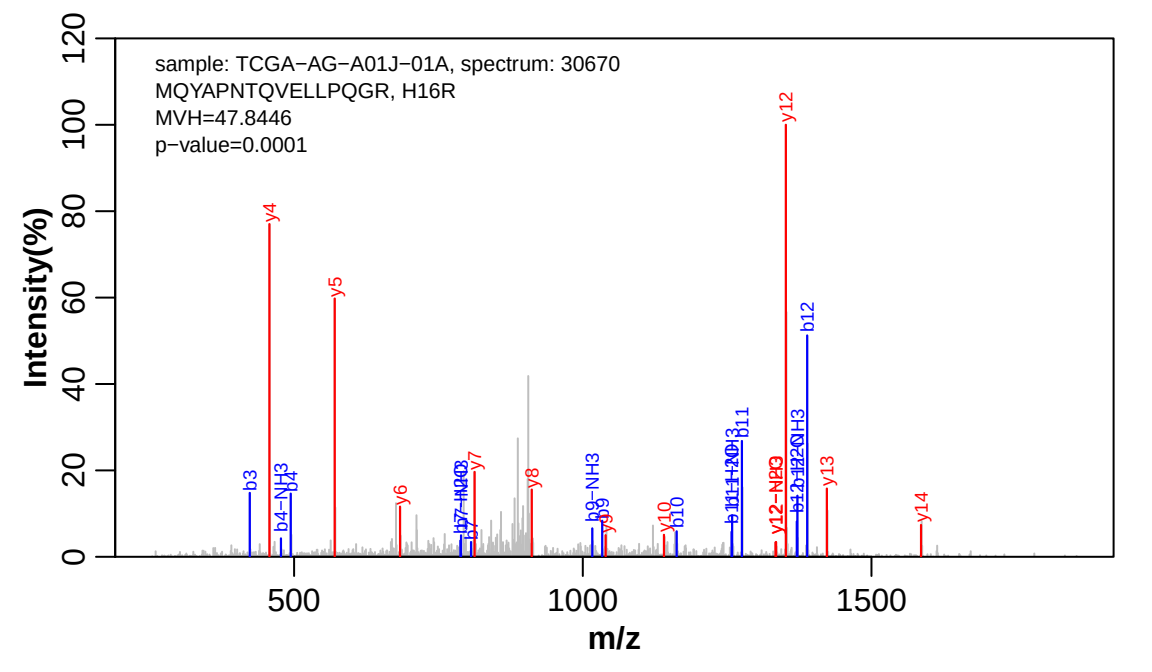

sample: TCGA−AG−A01J−01A, spectrum: 111297
LQELTPSSGDPGEHDPASTHK, P4L
MVH=57.1798
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b8++
y13+++−H2O
b9++
b4
y14+++
y16+++
y11++
y13++
y20+++
y14++
y15++
y16++

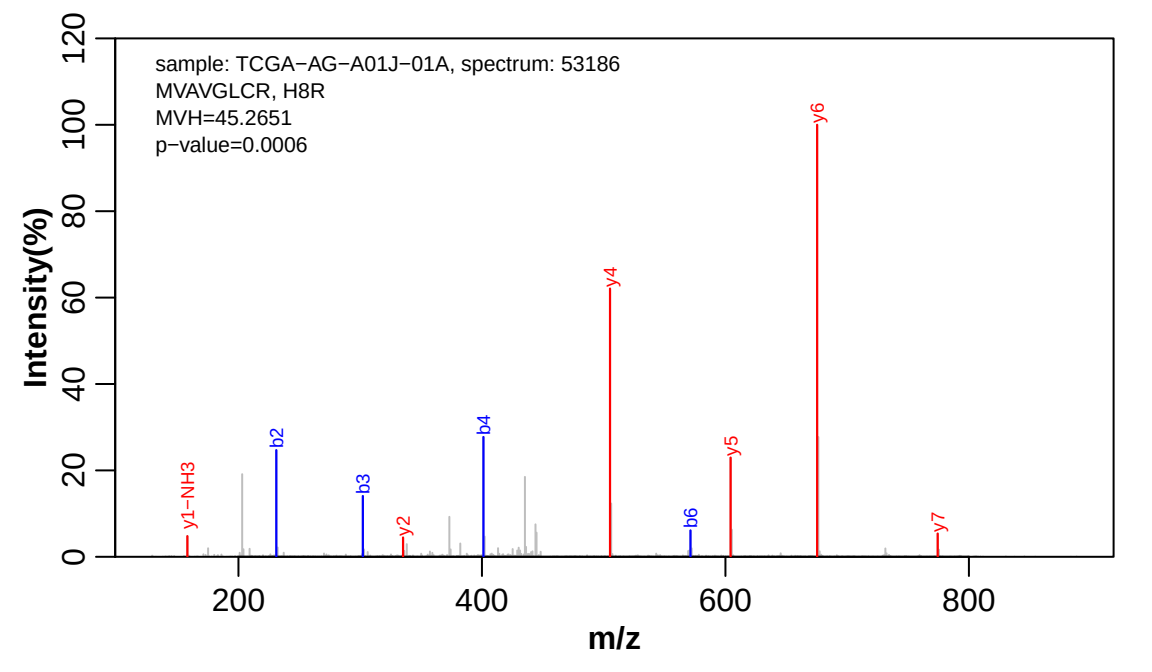

sample: TCGA−AG−A01J−01A, spectrum: 138683
LQHLVNELTHDLLTK, E5V
MVH=89.4672
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10++
y14+++−H2O
b5++
b11++−H2O
b12++
b13++

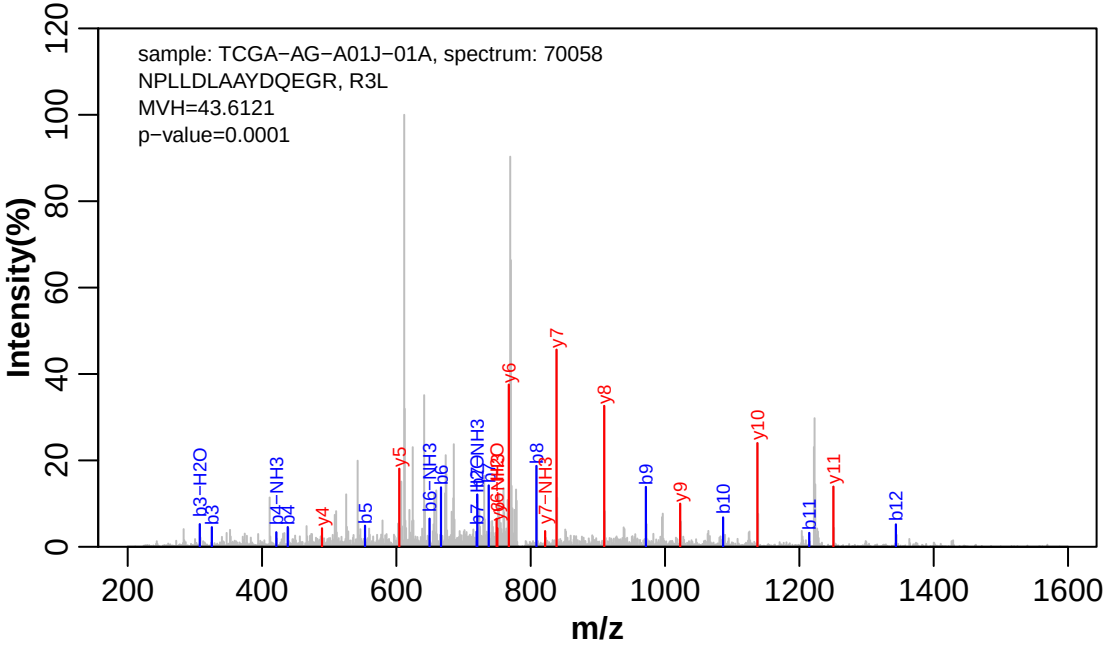

sample: TCGA−AG−A01J−01A, spectrum: 164583
LSDLQEALDQALNHVR, Y14H
MVH=53.8024
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y9++
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−NH3
y?−NH3
y15++−H2O
y14++
y15++

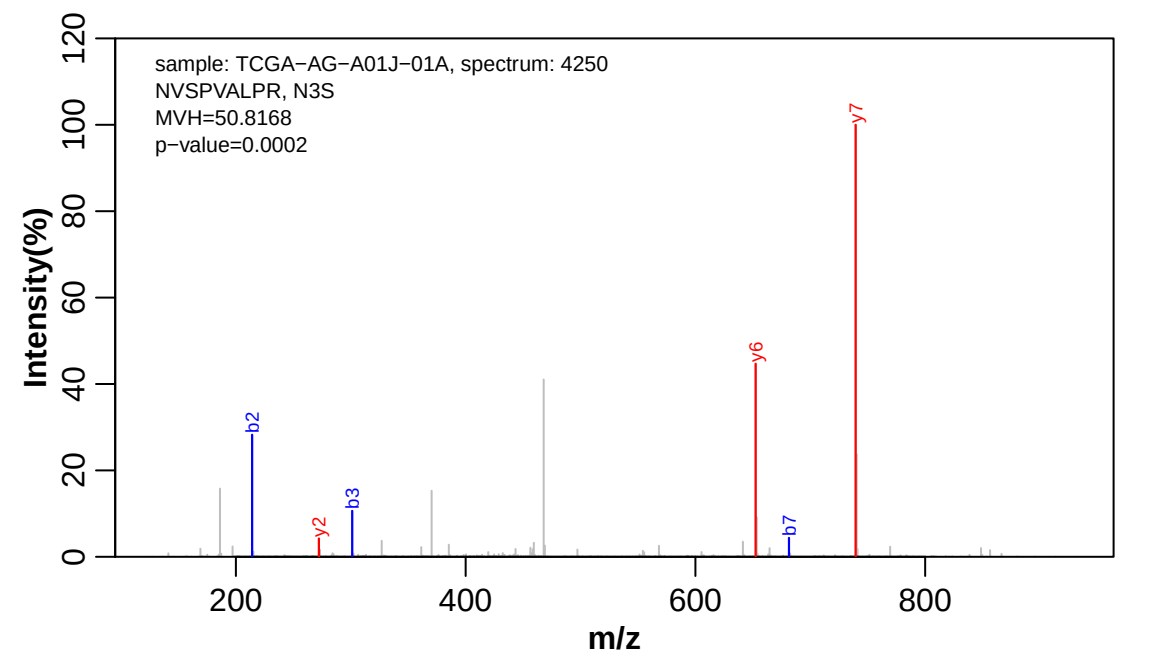

sample: TCGA−AG−A01J−01A, spectrum: 91867
LTEFCHGFLEGK, R7G
MVH=62.5224
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6−H2O
y3−H2O
y3
y4
y5
y6
b5
b6−H2O
b7
y8−NH3
y8
b8
y9−NH3
y9
b9
y10−NH3
y10
b10
b11

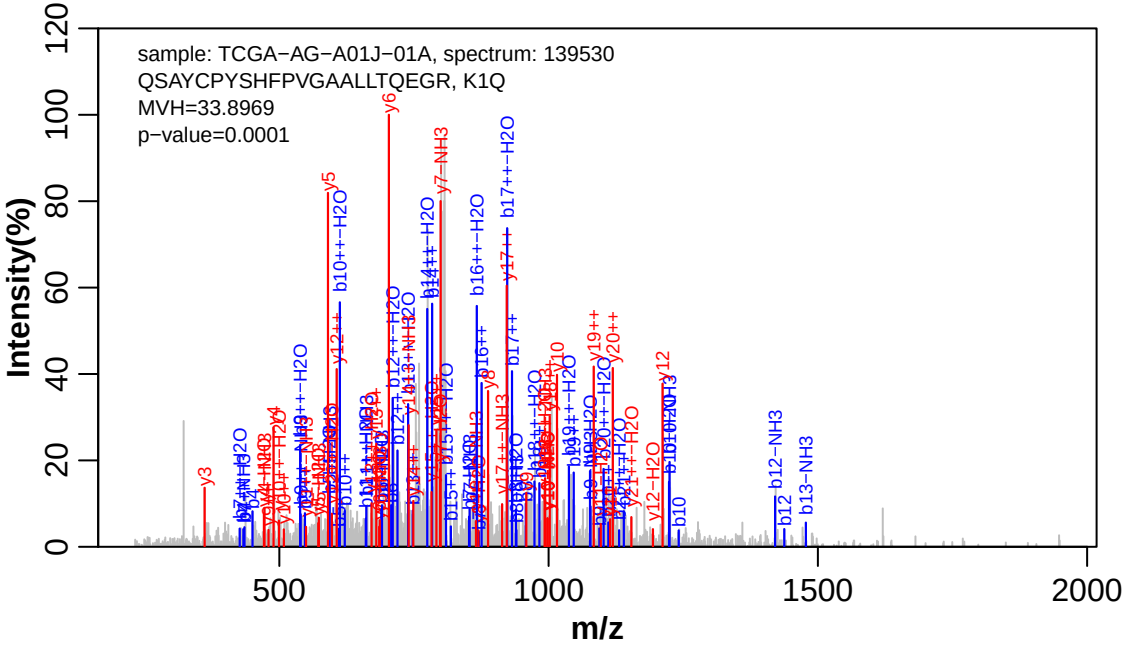

sample: TCGA−AG−A01J−01A, spectrum: 30674
LTPVSAQFQDLEGK, L8F
MVH=33.0798
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
y10

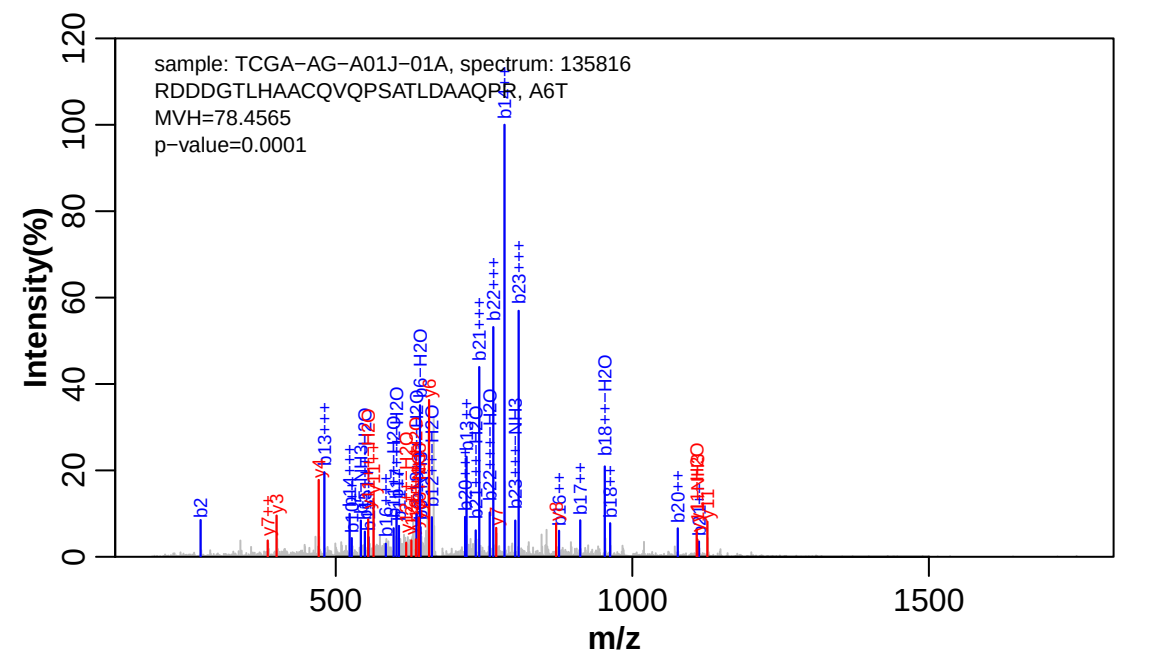

sample: TCGA−AG−A01J−01A, spectrum: 30670
MQYAPNTQVELLPQGR, H16R
MVH=47.8446
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
b4−NH3
b4
y4
y5
y6
y7
y8
b9−NH3
b9
y9
y10
b10
b11
y12−NH3
y12
b12
y13
y14

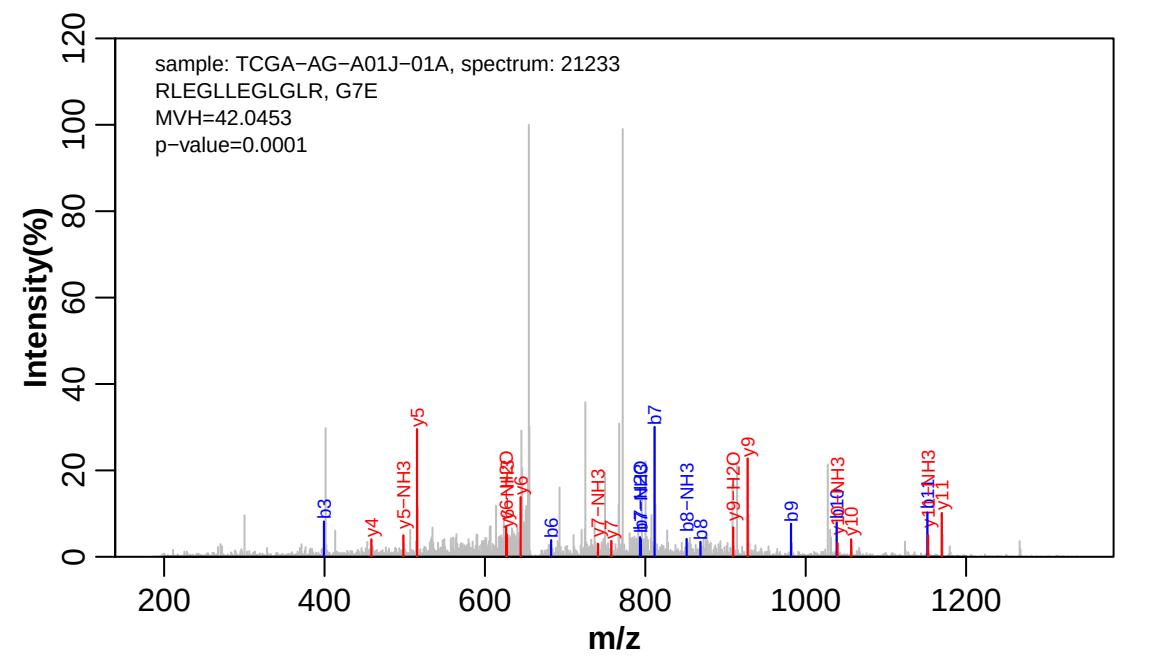

sample: TCGA−AG−A01J−01A, spectrum: 53186
MVAVGLCR, H8R
MVH=45.2651
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

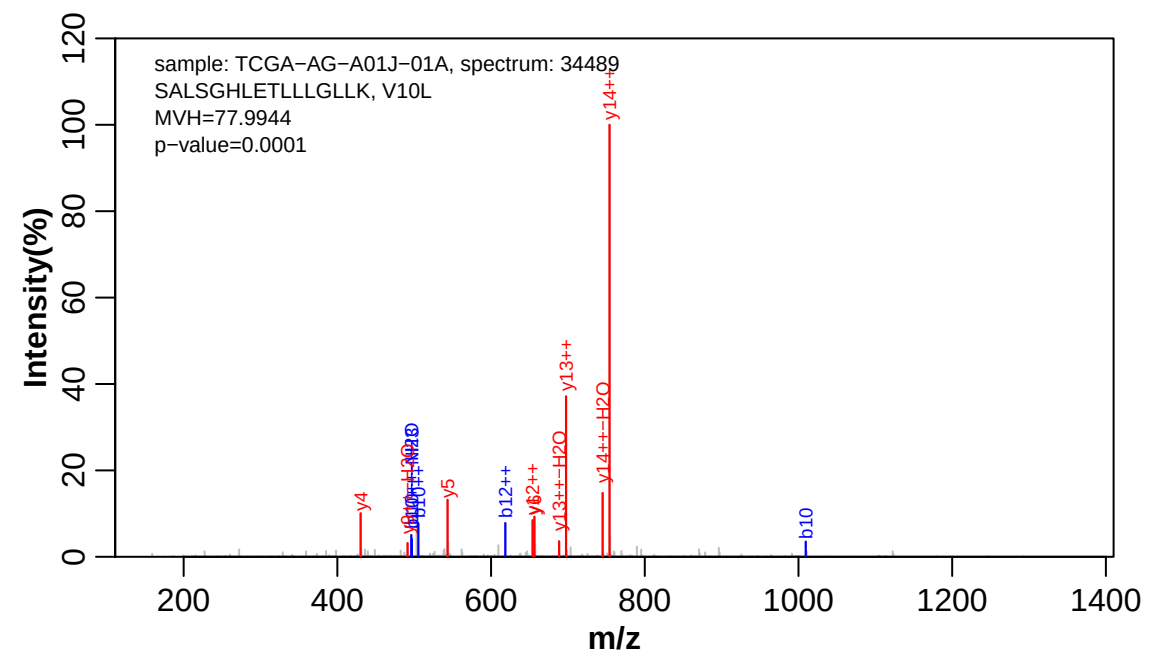

sample: TCGA−AG−A01J−01A, spectrum: 70058
NPLLDLAAYDQEGR, R3L
MVH=43.6121
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3−H2O
b3
b4−NH3
b4
y4
b5
y5
b6−NH3
b6
y6
y7
y8
b8
y7−NH3
b9
y9
y10
b10
b11
y11
b12

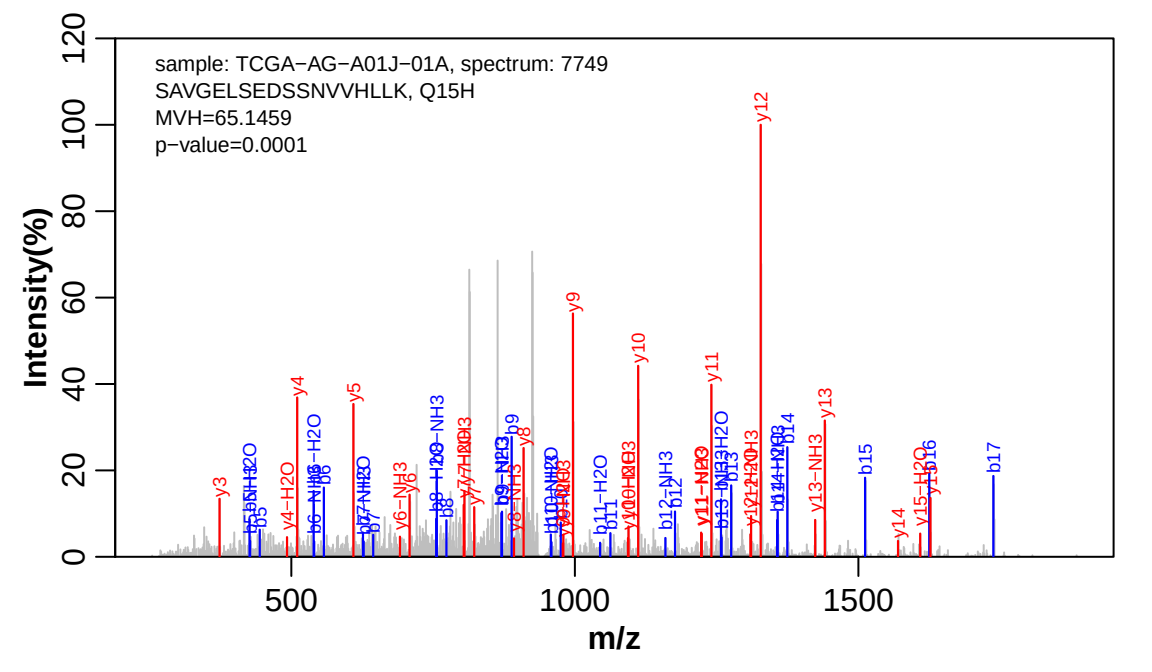

sample: TCGA−AG−A01J−01A, spectrum: 4250
NVSPVALPR, N3S
MVH=50.8168
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y6
b7
y7

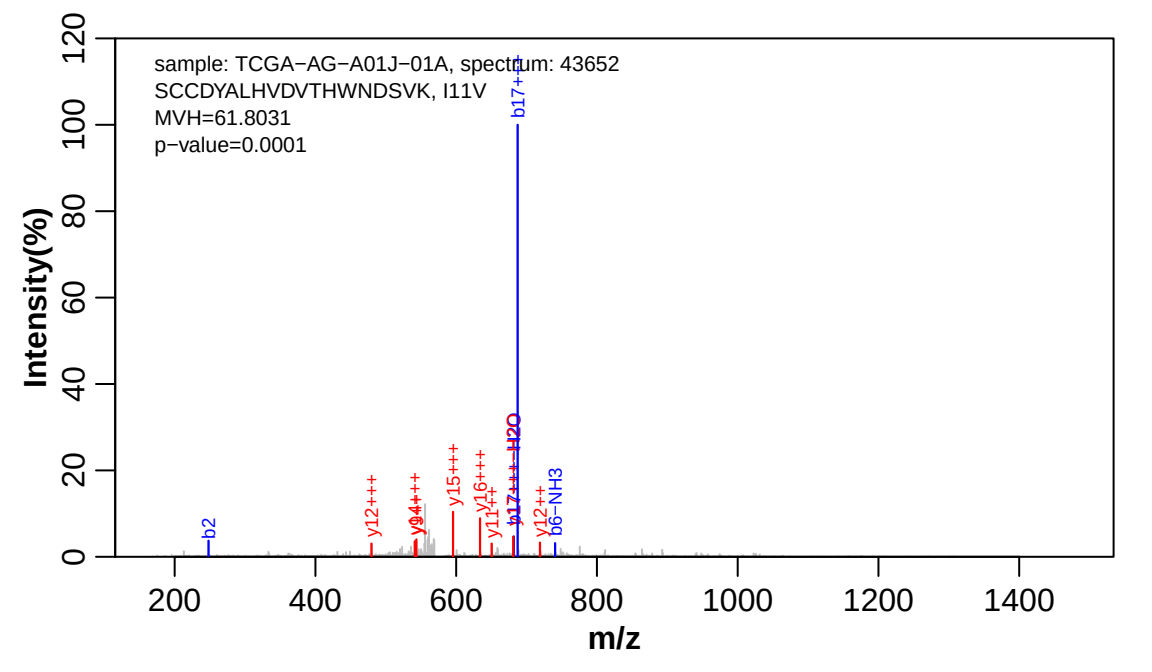

sample: TCGA−AG−A01J−01A, spectrum: 139530
QSAYCPYSHFPVGAALLTQEGR, K1Q
MVH=33.8969
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
y5
y7−NH3
b10++−H2O
b14++−H2O
b16++−H2O
y17++
b17++−H2O
y12++
y3
b12−NH3
b13−NH3
y12−H2O
b10

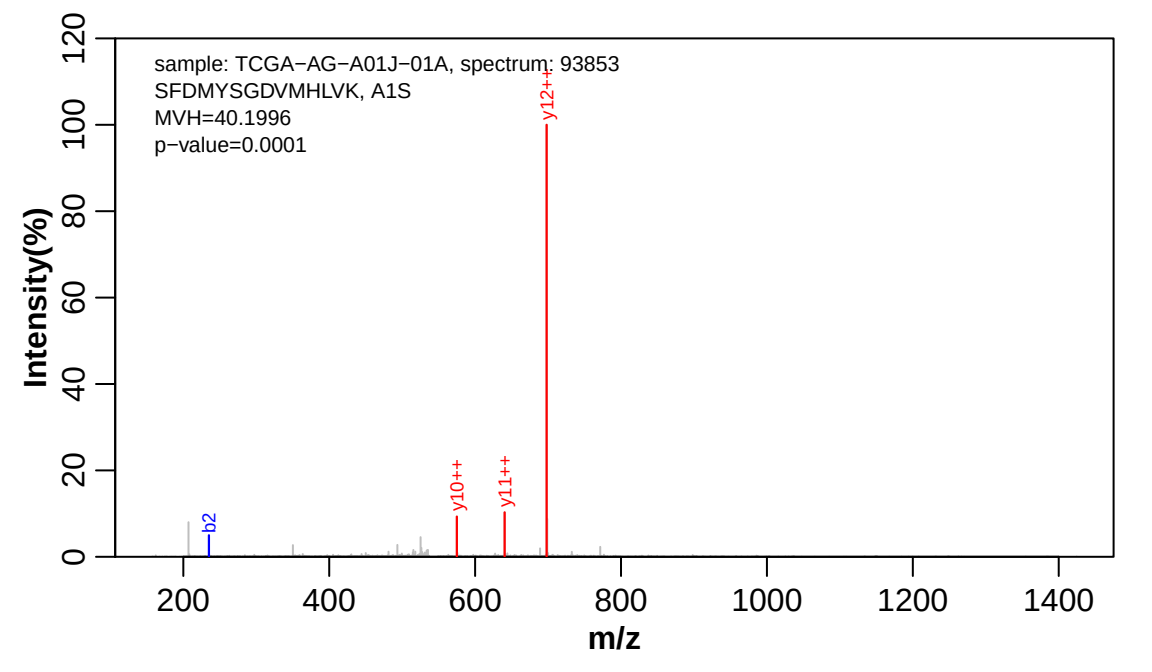

sample: TCGA−AG−A01J−01A, spectrum: 135816
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=78.4565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y7++
v4
b13+++
b12+++
b16+++
b21+++
b22+++
b23+++
b1+++
b18++−H2O
b17++
b20++
b18++
b16++
y11++
y11++−NH3

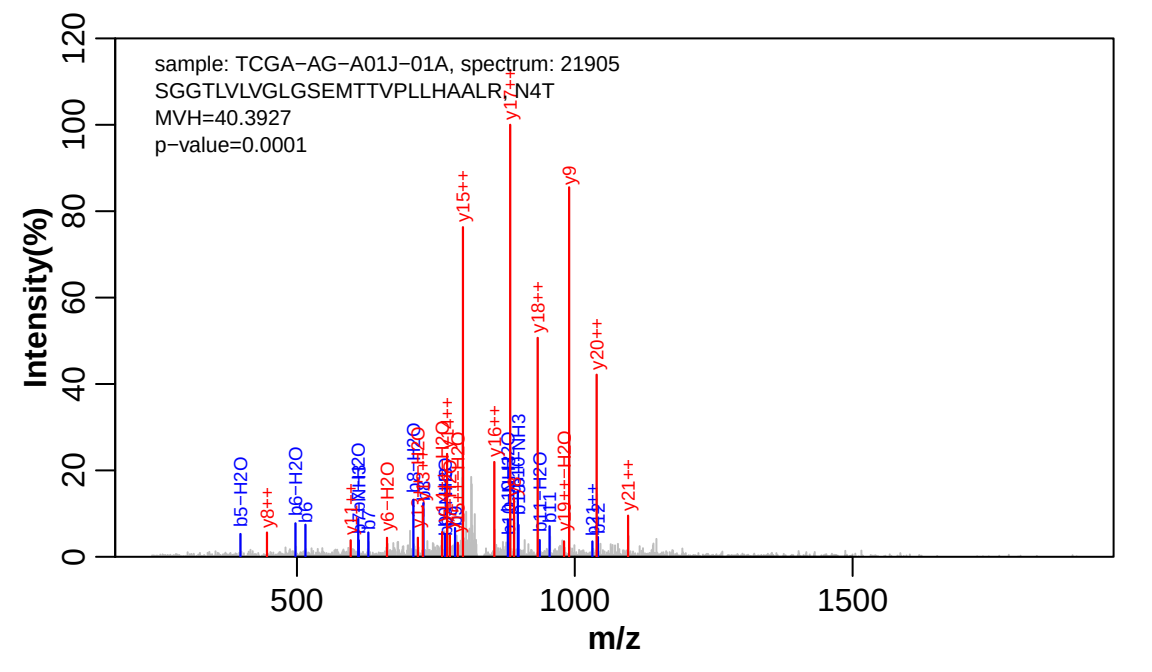

sample: TCGA−AG−A01J−01A, spectrum: 21233
RLEGLLEGLGLR, G7E
MVH=42.0453
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3
y4
y5−NH3
y5
b6
y7−NH3
y7
b8−NH3
b8
b7
y9−H2O
y9
b9
y10−NH3
y10
y11−NH3
y11

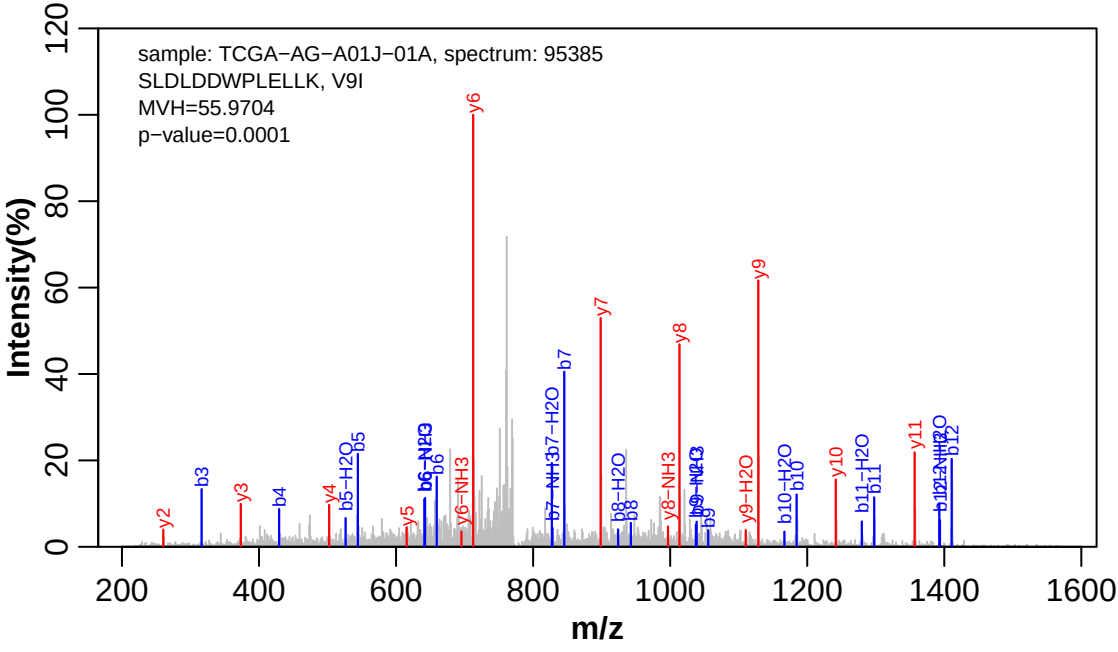

sample: TCGA−AG−A01J−01A, spectrum: 34489
SALSGHLETLLLGLLK, V10L
MVH=77.9944
p−value=0.0001
Intensity(%)
m/z
y14++
y13++
y14++−H2O
y13++−H2O
y4
y5
b12++
b10
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

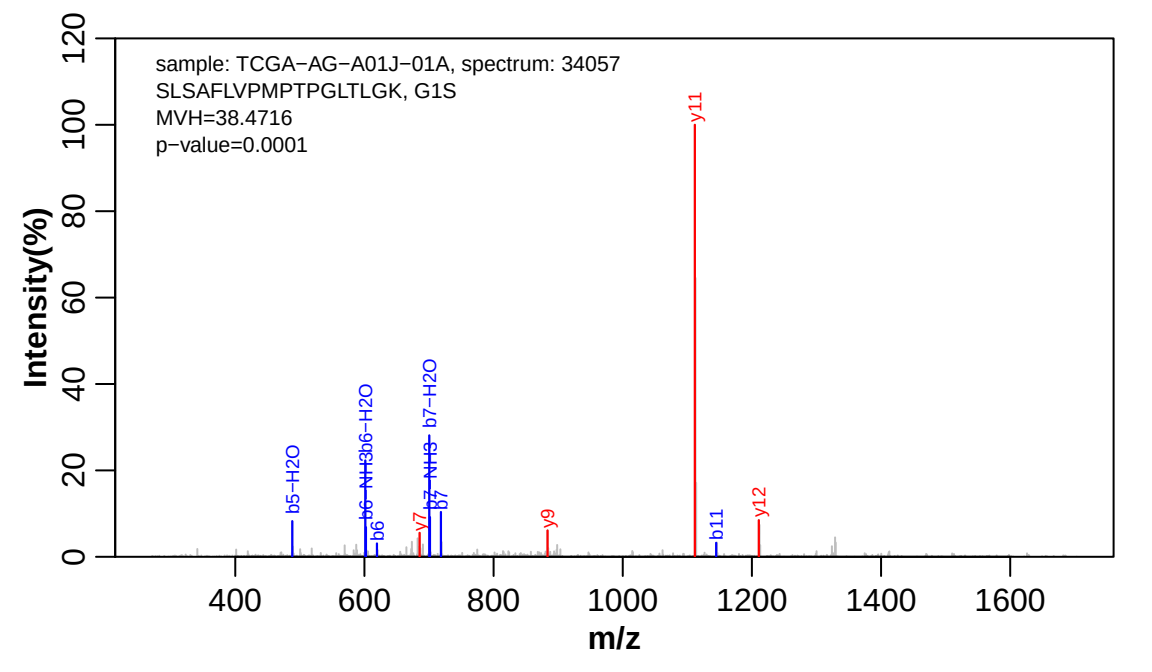

sample: TCGA−AG−A01J−01A, spectrum: 7749
SAVGELSEDSSNVVHLLK, Q15H
MVH=65.1459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y9
y10
y11
y13
y4
y5
y3
b15
b17
b11−H2O
b12−NH3
y13−NH3
y15−H2O
y14
b16
b14
b13
b9
y8
y6−NH3
y6
b8
b7
b6
b5
b4
y4−H2O

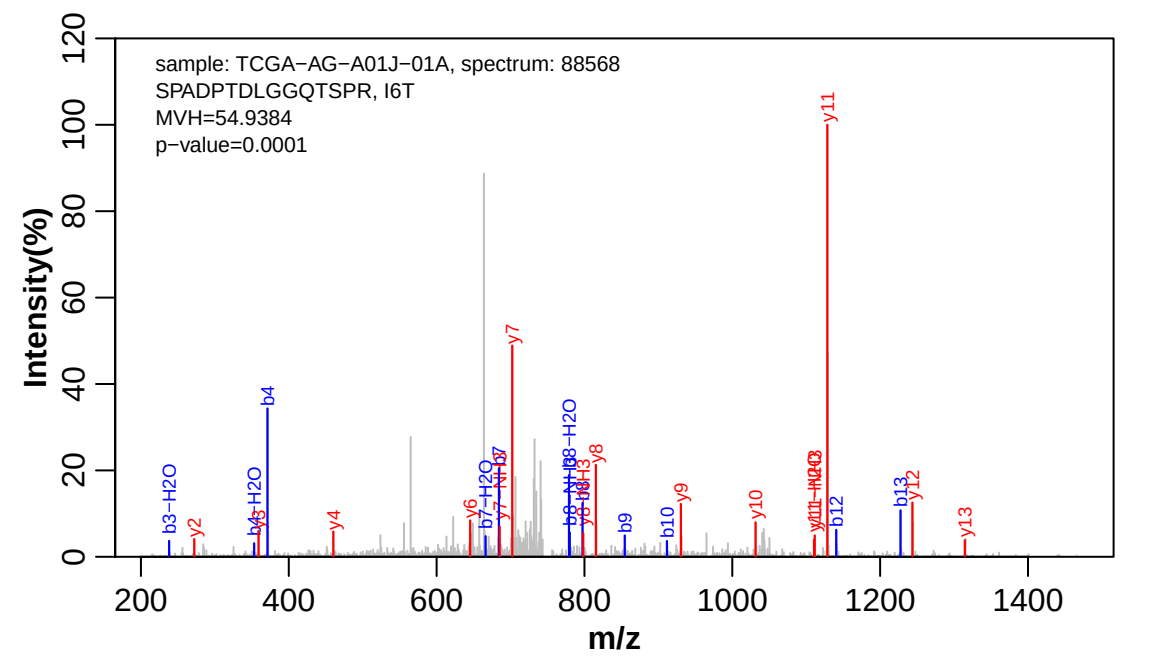

sample: TCGA−AG−A01J−01A, spectrum: 43652
SCCDYALHVDVTHWNDSVK, I11V
MVH=61.8031
p−value=0.0001
Intensity(%)
m/z
b17+++
b17+++−H2O
y15+++
y16+++
y12+++
y11++
y12++
b6−NH3
b2

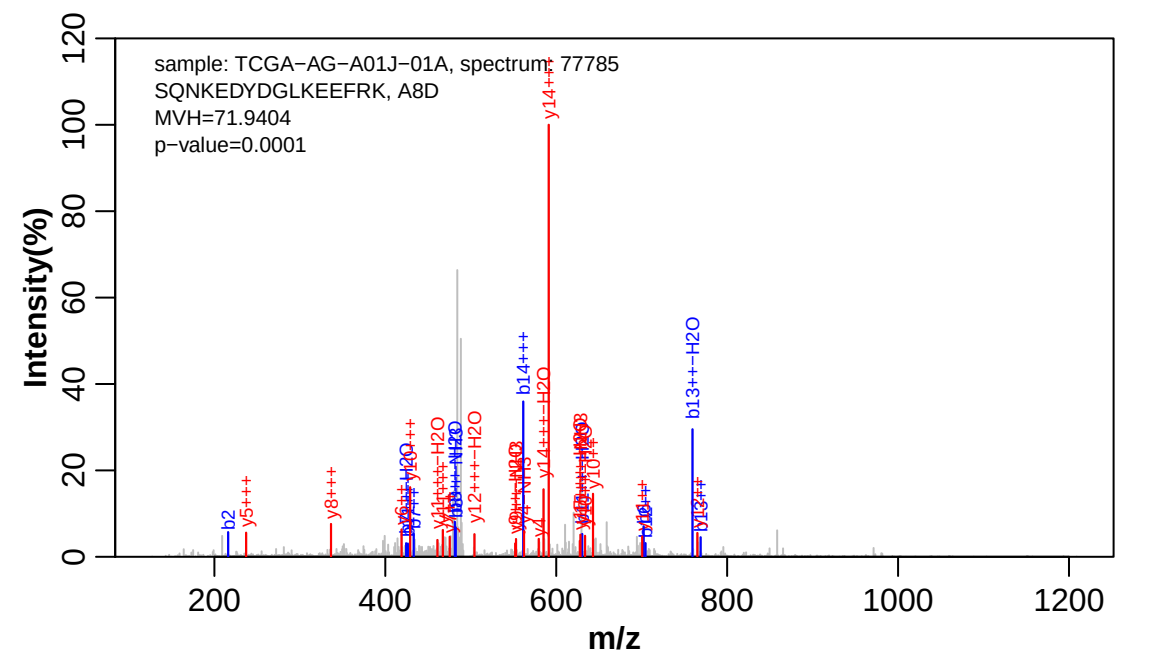

sample: TCGA−AG−A01J−01A, spectrum: 93853
SFDMYSGDVMHLVK, A1S
MVH=40.1996
p−value=0.0001
y12++
y10++
y11++
b2
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

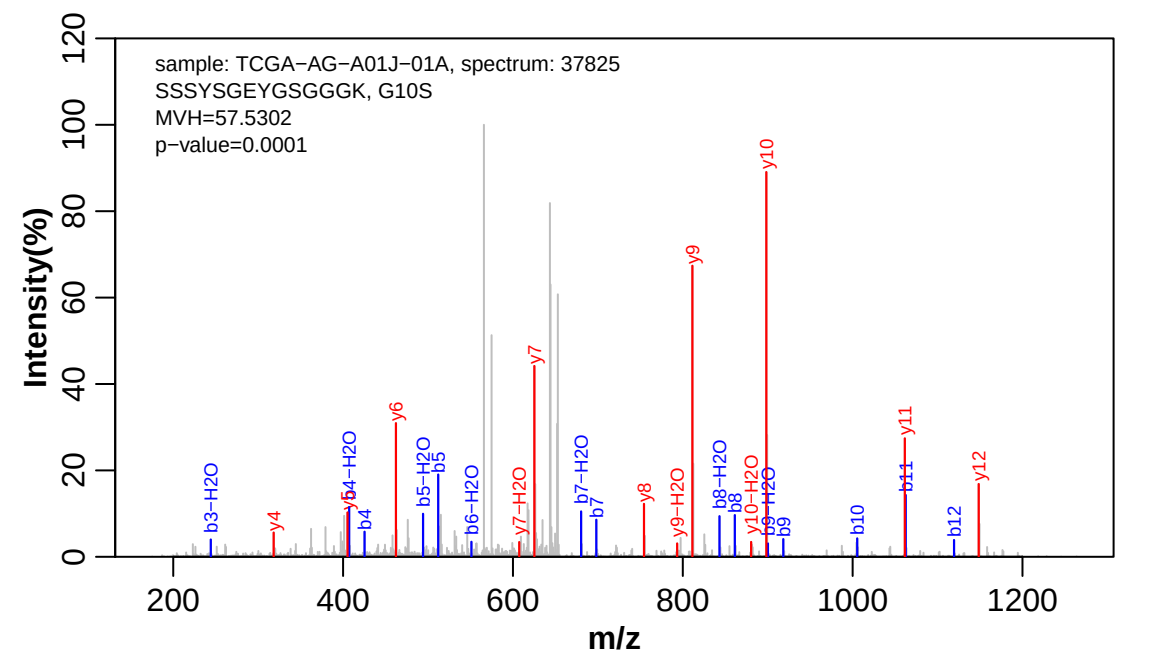

sample: TCGA−AG−A01J−01A, spectrum: 21905
SGGTLVLVGLGSEMTTVPLLHAALRLN4T
MVH=40.3927
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y15++
y9
y18++
y20++
y21++
b5−H2O
y8++
b6−H2O
b6
y6−H2O
y16++
b11−H2O
y9++−H2O
b12++

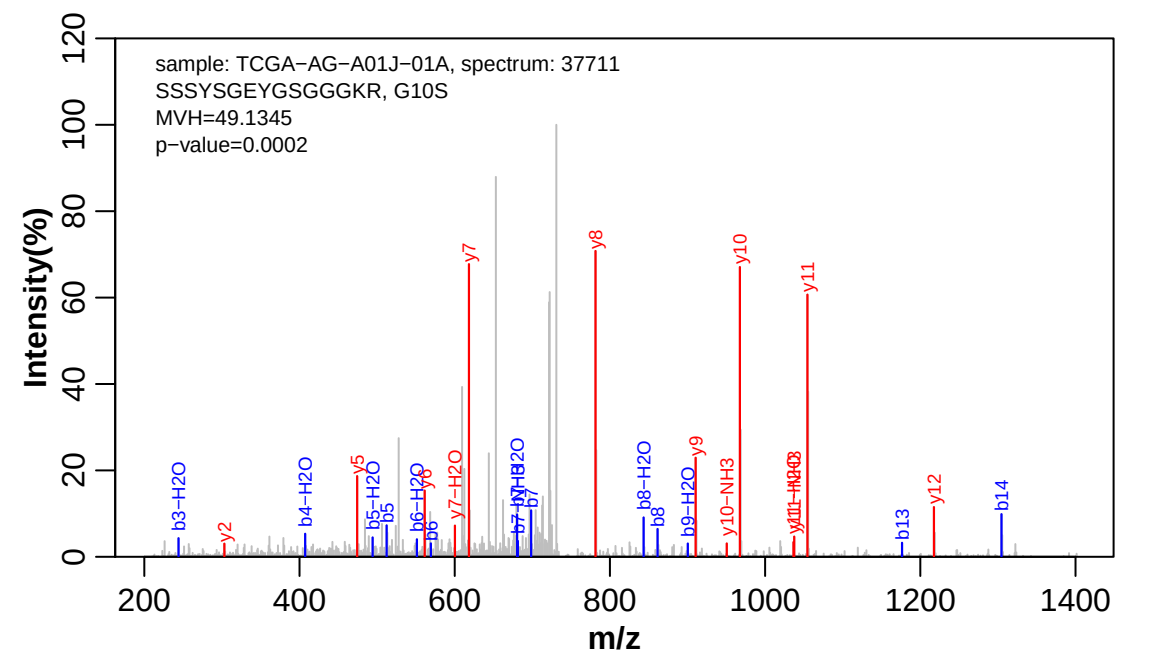

sample: TCGA−AG−A01J−01A, spectrum: 95385
SLDLDDWPLELLK, V9I
MVH=55.9704
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3
b4
y4
b5−H2O
b5
y5
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7
b8−H2O
b8
y8−NH3
y8
b9−NH3
b9
y9−H2O
y9
b10−H2O
b10
y10
b11−H2O
b11
y11
b12

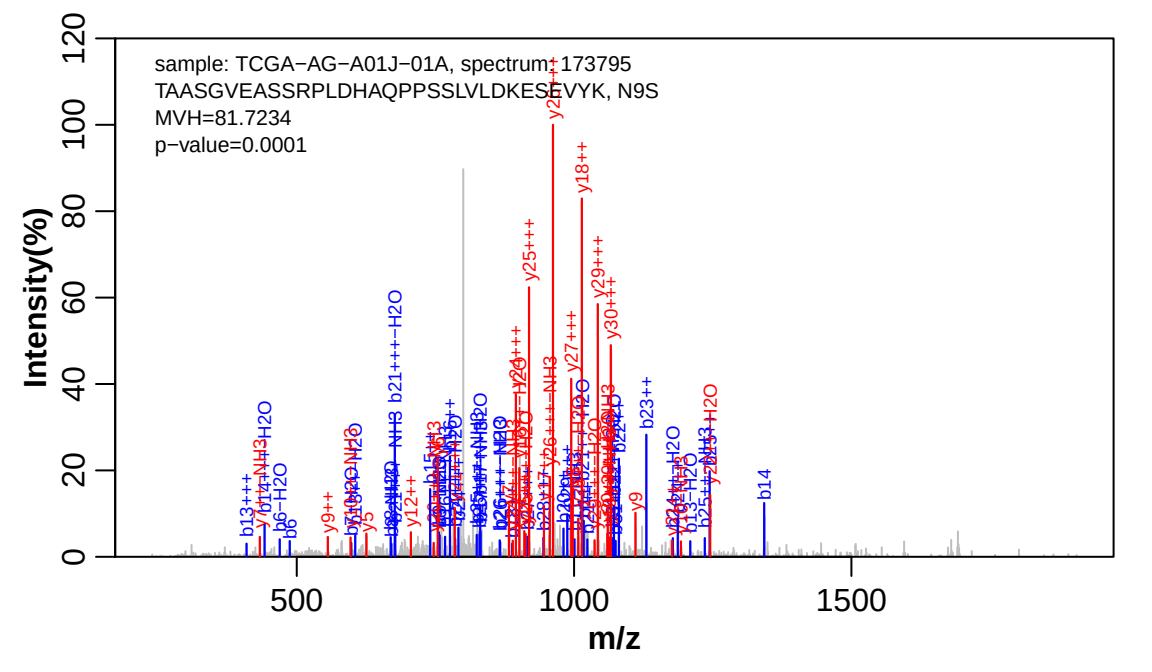

sample: TCGA−AG−A01J−01A, spectrum: 34057
SLSAFLVPMPTPGLTLGK, G1S
MVH=38.4716
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
b5−H2O
b6−NH3
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y9
y11
b11
y12

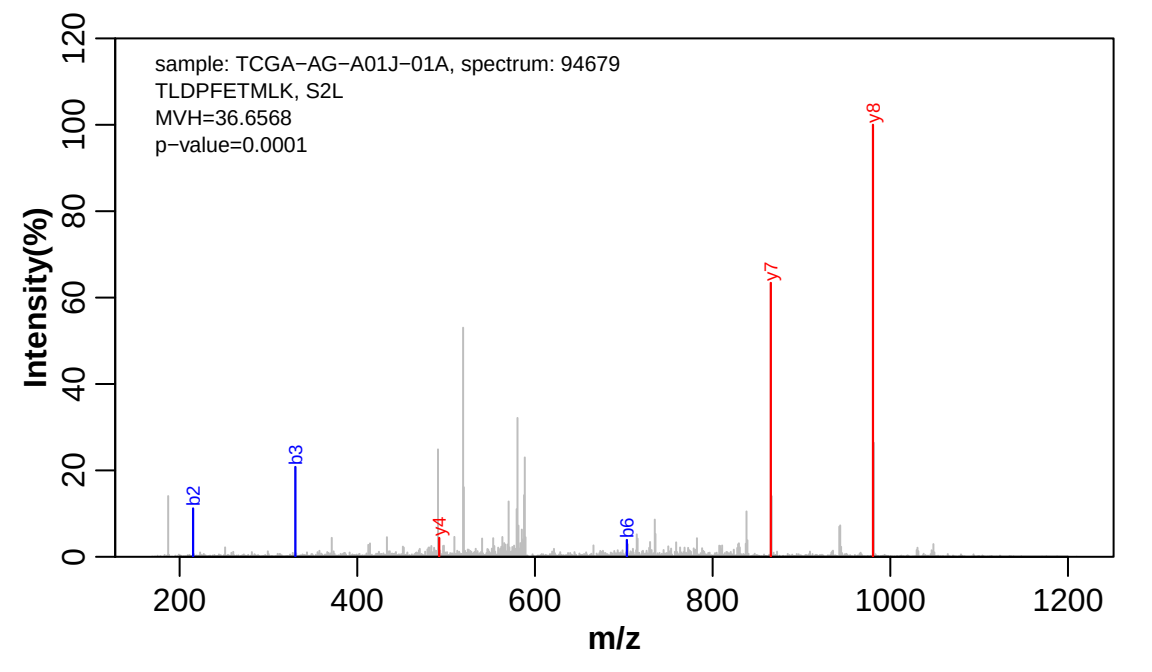

sample: TCGA−AG−A01J−01A, spectrum: 88568
SPADPTDLGGQTSPR, I6T
MVH=54.9384
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2
b4
y4
y6
y7
y8
b9
b10
y9
y10
b12
b13
y12
y13
y11

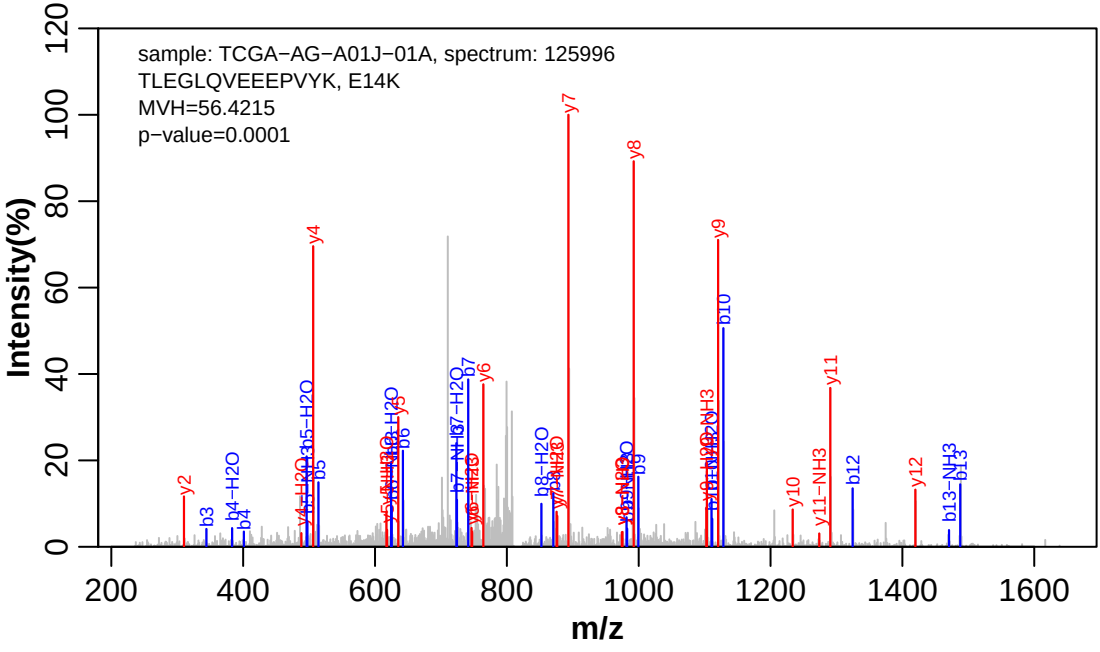

sample: TCGA−AG−A01J−01A, spectrum: 77785
SQNKEDYDGLKEEFRK, A8D
MVH=71.9404
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y5+++
y8+++
y12+++−H2O
y14++
b14+++
y14+++−H2O
b13++−H2O
b13++

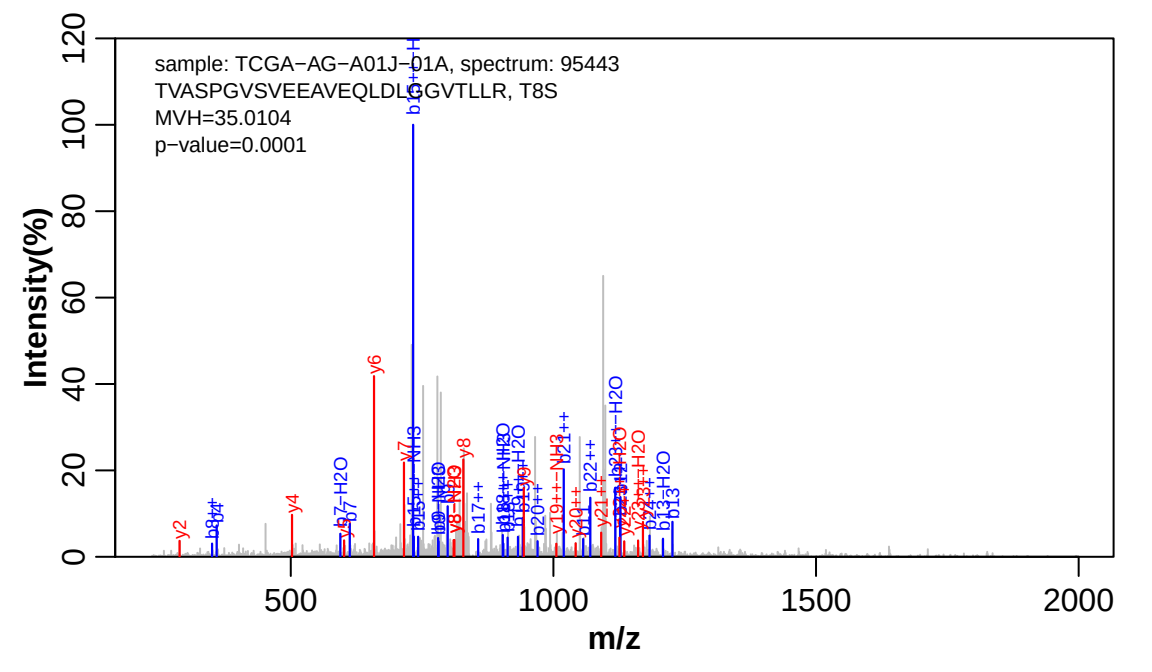

sample: TCGA−AG−A01J−01A, spectrum: 37825
SSSYSGEYGSGGGK, G10S
MVH=57.5302
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y4−H2O
b4
y6
b5−H2O
b5
b6−H2O
y7−H2O
y7
b7−H2O
b7
y8
y9−H2O
y9
b8−H2O
b8
y10−H2O
b9−H2O
b9
y10
b10
b11
y11
b12
y12

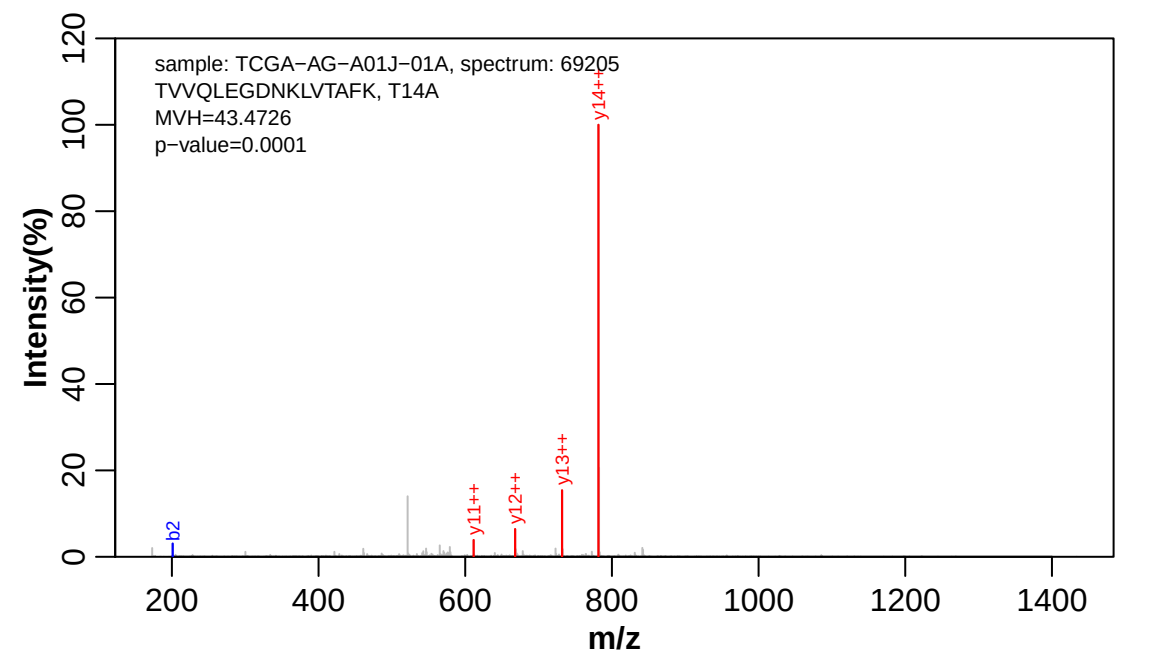

sample: TCGA−AG−A01J−01A, spectrum: 37711
SSSYSGEYGSGGGKR, G10S
MVH=49.1345
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
y2
b4−H2O
y5
b5−H2O
b5
b6−H2O
y6
b6
y7−H2O
y7
b7−H2O
b7
y8
b8−H2O
b8
b9−H2O
y9
y10−NH3
y10
y11
b13
y12
b14

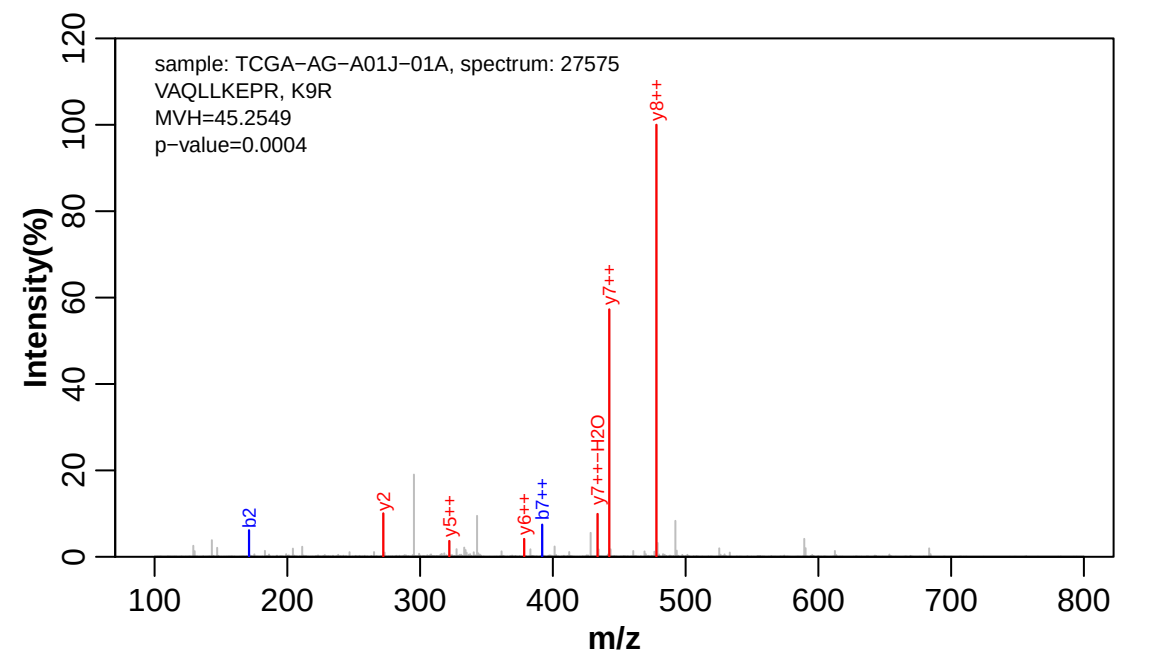

sample: TCGA−AG−A01J−01A, spectrum: 173795
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=81.7234
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y25+++
y18++
y29+++
y30+++
y27+++
b23++
b14
y9
y9++
y12++
b13+++
b8
b8−H2O
y5
y26+++
y26++
b21+++−H2O

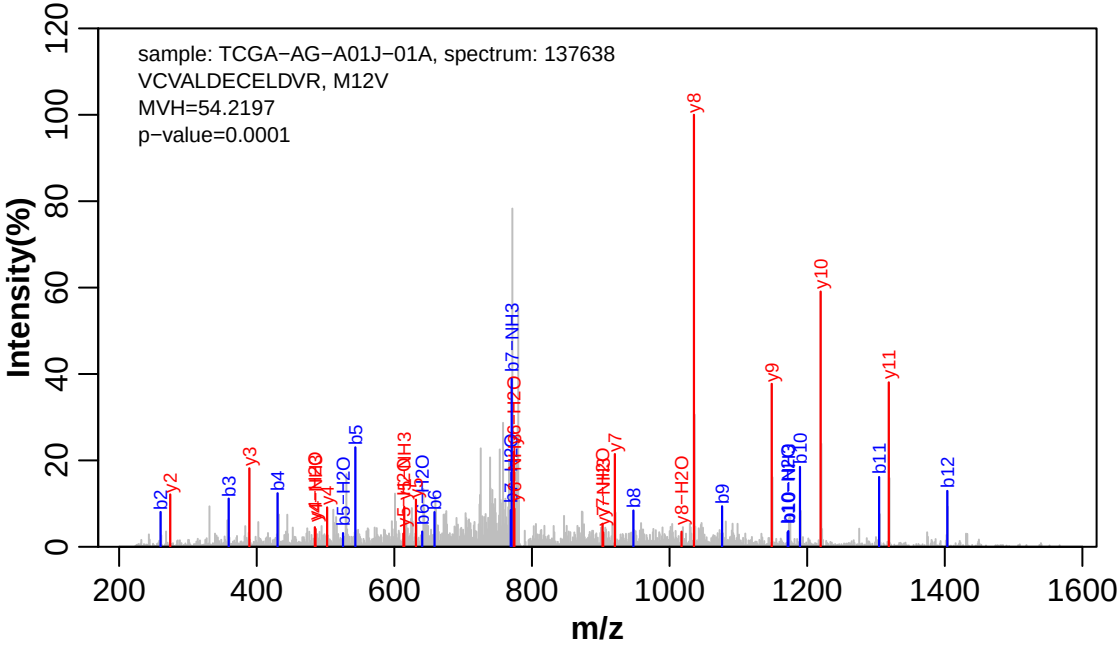

sample: TCGA−AG−A01J−01A, spectrum: 94679
TLDPFETMLK, S2L
MVH=36.6568
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3
y4
b6
y7
y8

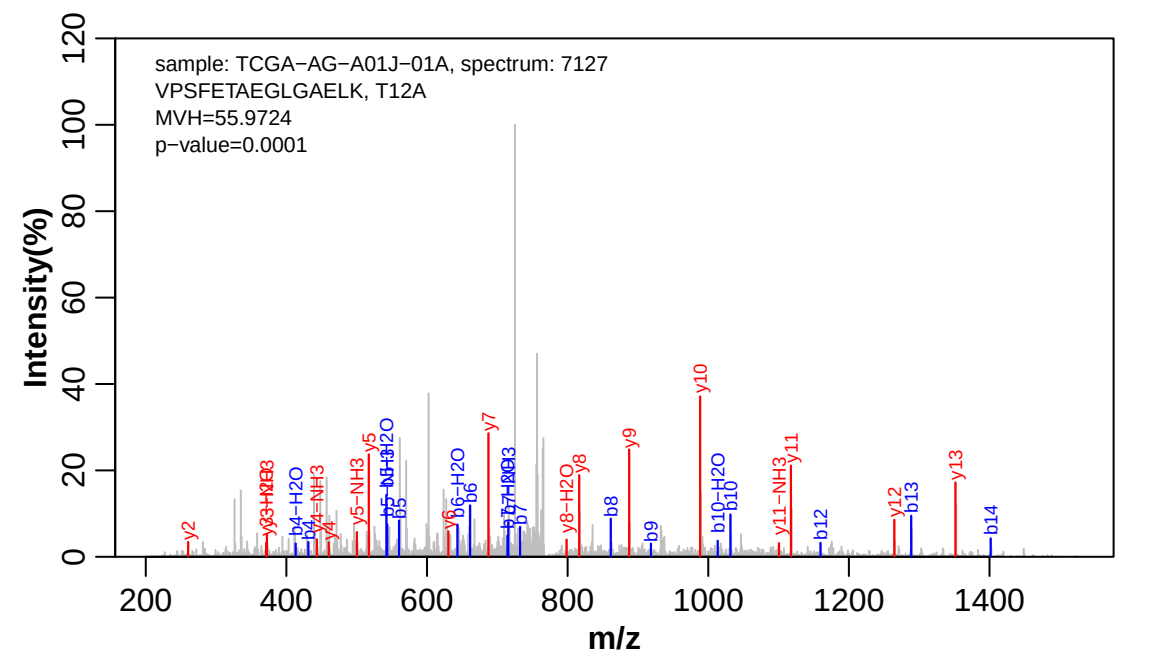

sample: TCGA−AG−A01J−01A, spectrum: 125996
TLEGLQVEEEPVYK, E14K
MVH=56.4215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y4
y9
b10
y6
y11
y2
b3
b4−H2O
b4
b12
y10
y11−NH3
y12
b13−NH3
b13

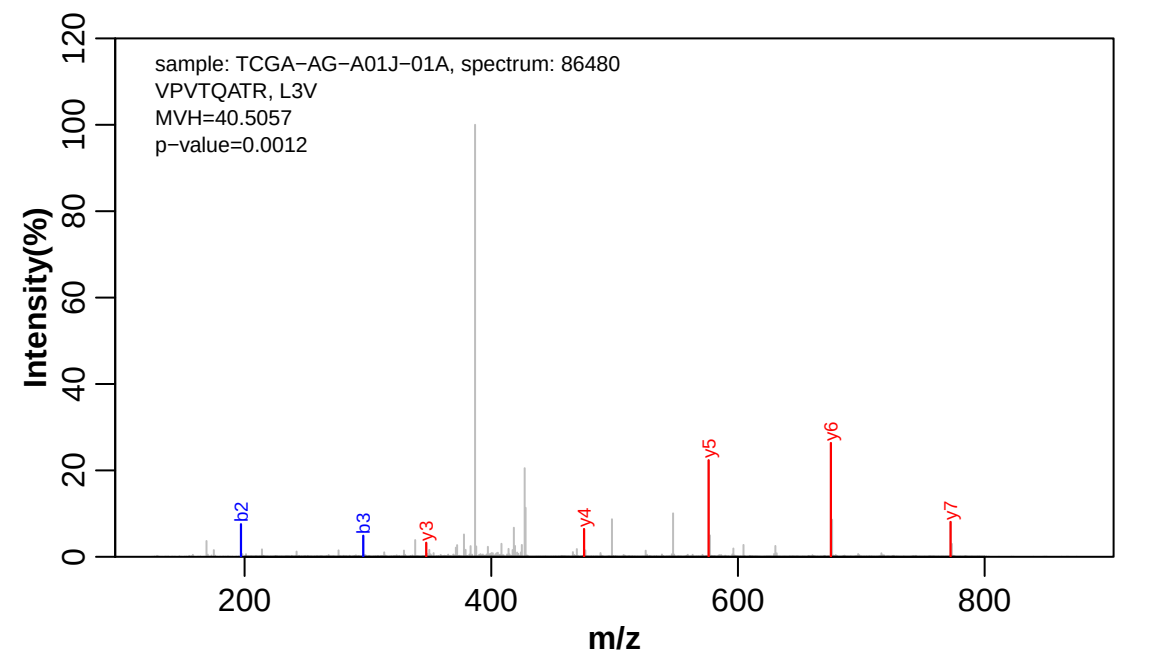

sample: TCGA−AG−A01J−01A, spectrum: 95443
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=35.0104
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y4
y6
y7
b17++
b20++
b21++
b22++
b13
H2O
NH3

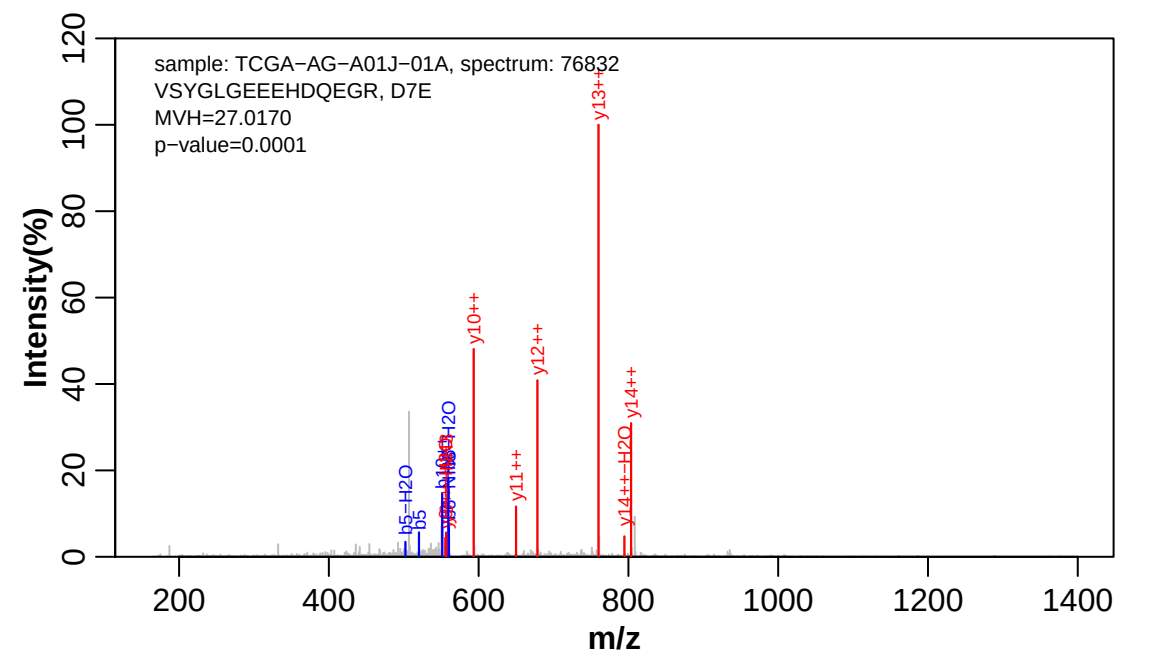

sample: TCGA−AG−A01J−01A, spectrum: 69205
TVVQLEGDNKLVTAFK, T14A
MVH=43.4726
p−value=0.0001
y14++
y13++
y12++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

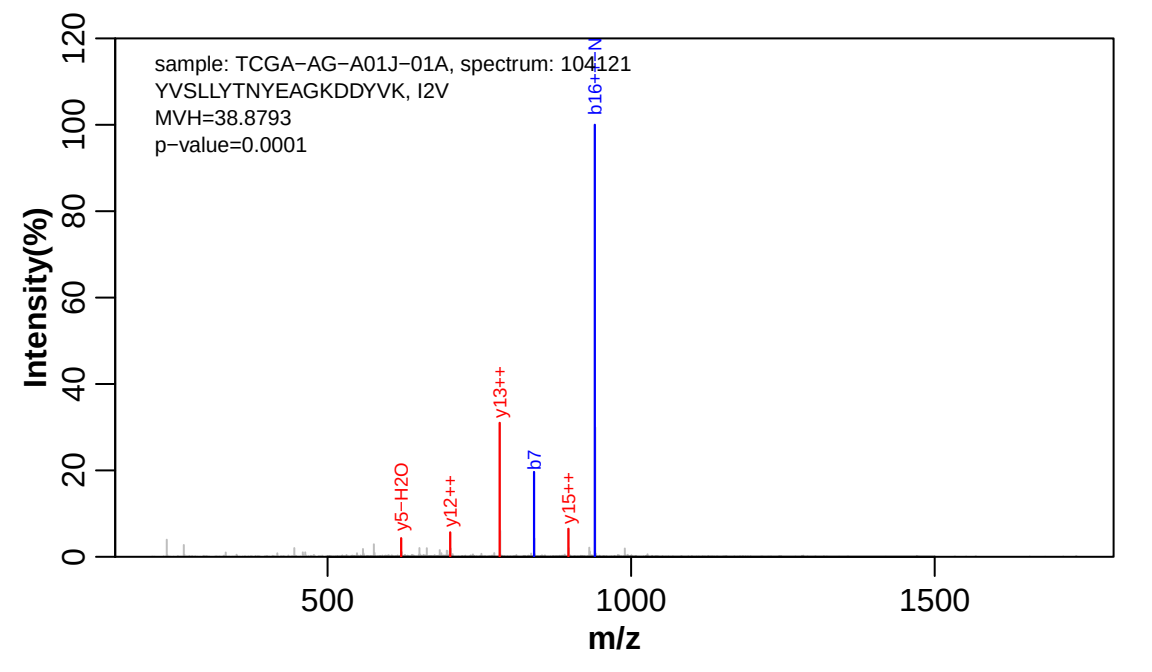

sample: TCGA−AG−A01J−01A, spectrum: 27575
VAQLLKEPR, K9R
MVH=45.2549
p−value=0.0004
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z
b2
y2
y5++
y6++
b7++
y7++−H2O
y7++
y8++

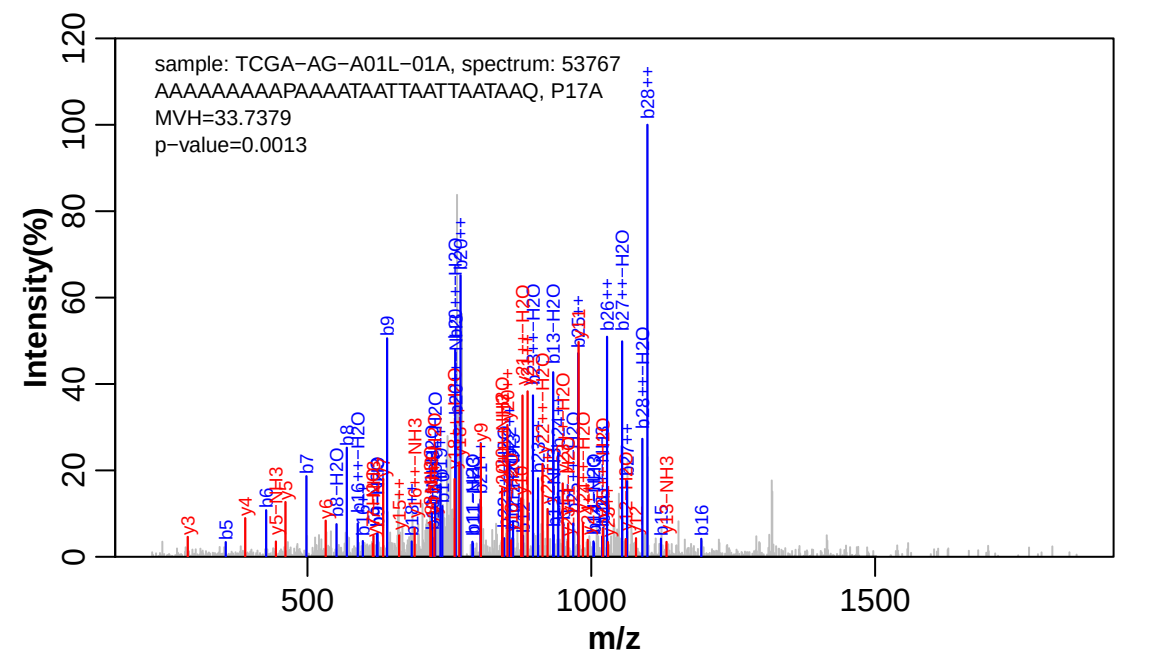

sample: TCGA−AG−A01J−01A, spectrum: 137638
VCVALDECELDVR, M12V
MVH=54.2197
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y2
b3
y3
b4
b5
b5−H2O
b6
b6−H2O
b7−NH3
b8
y7
y8
b8−H2O
b9
y9
b10
b10−NH3
y10
y11
b11
b12

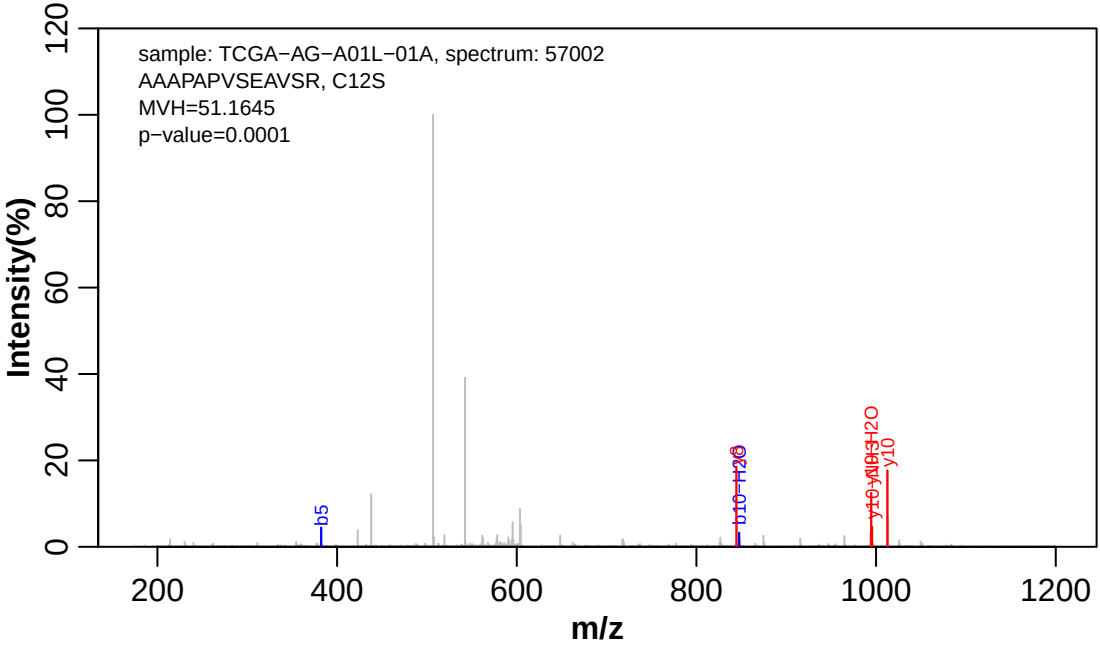

sample: TCGA−AG−A01J−01A, spectrum: 7127
VPSFETAEGLGAELK, T12A
MVH=55.9724
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y5−NH3
y5
y6−H2O
y7
y8−H2O
y8
y9
b8
b9
y10
b10−H2O
b10
y11−NH3
y11
b12
y12
b13
y13
b14

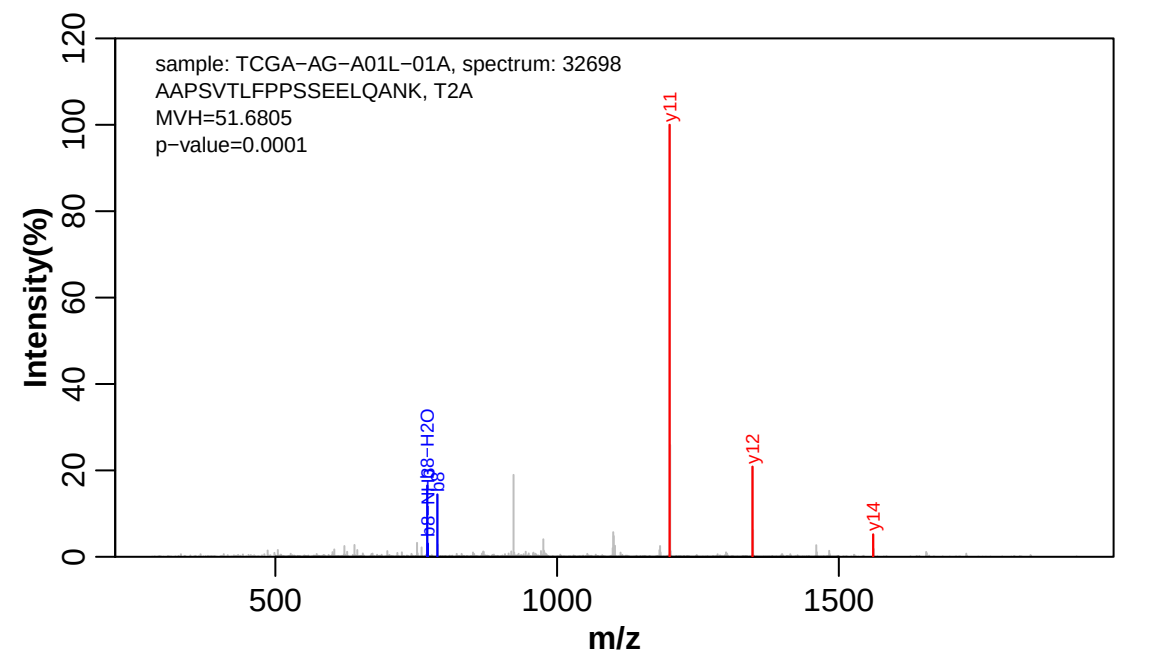

sample: TCGA−AG−A01J−01A, spectrum: 86480
VPVTQATR, L3V
MVH=40.5057
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

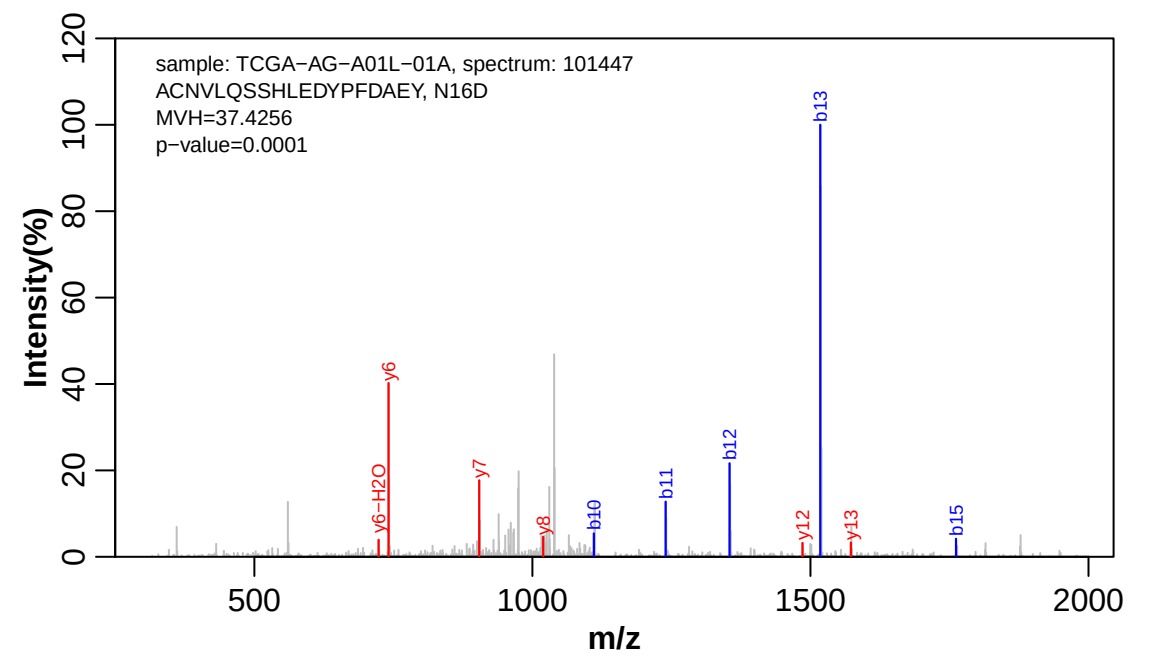

sample: TCGA−AG−A01J−01A, spectrum: 76832
VSYGLGEEEHDQEGR, D7E
MVH=27.0170
p−value=0.0001
Intensity(%)
m/z
y13++
y10++
y12++
y14++
y11++
y14++−H2O
b5−H2O
b5
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400

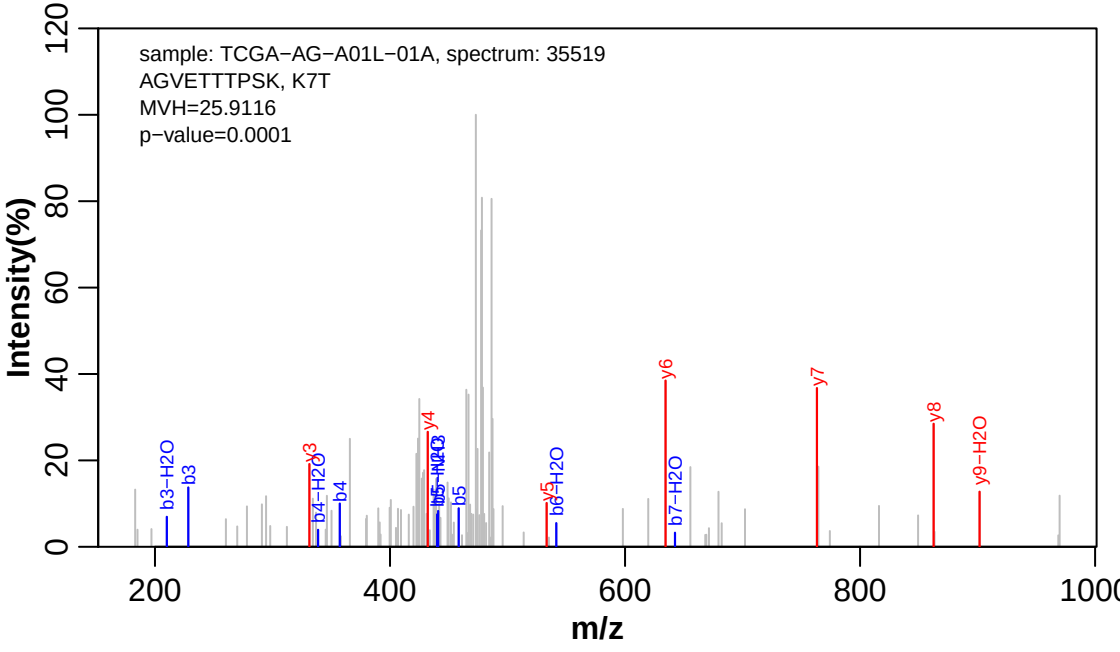

sample: TCGA−AG−A01J−01A, spectrum: 104121
YVSLLYTNYEAGKDDYVK, I2V
MVH=38.8793
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

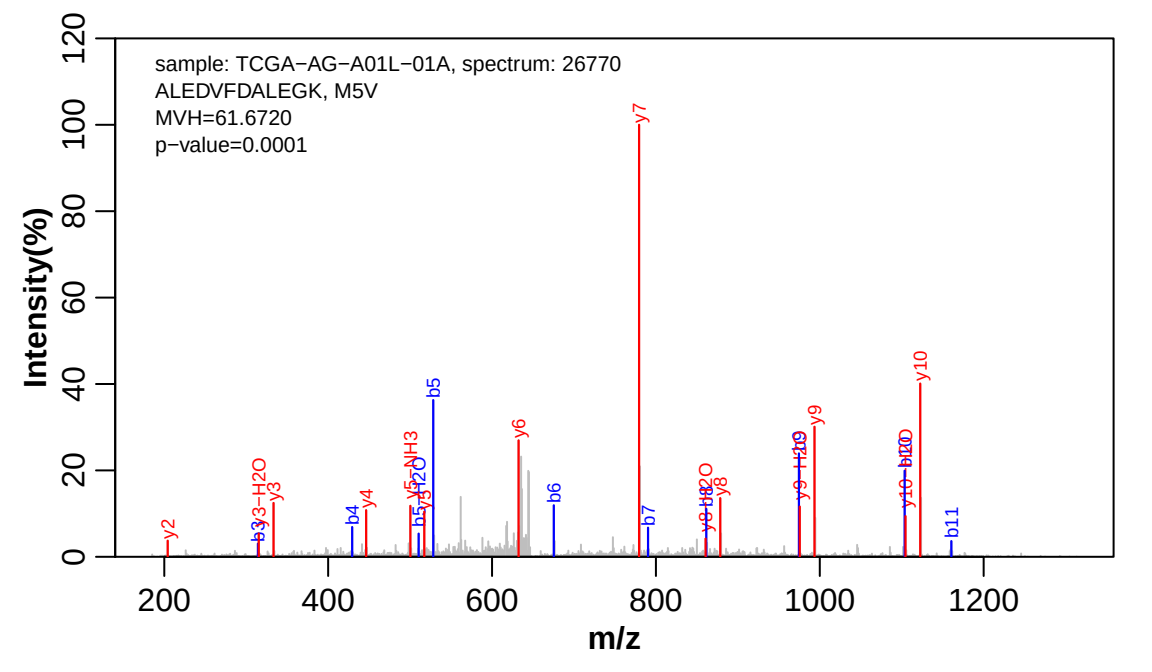

sample: TCGA−AG−A01L−01A, spectrum: 53767
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=33.7379
p−value=0.0013
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b9
b7
y3
b5
y4
y5
b6
y5−NH3
b8−H2O
y6
b8
y6−H2O
b16++−H2O
y15++
b16++−NH3
b11−NH3
b20++
b20++−H2O
b13−H2O
b25++
b26++
b27++−H2O
b28++−H2O
b15−NH3
b16

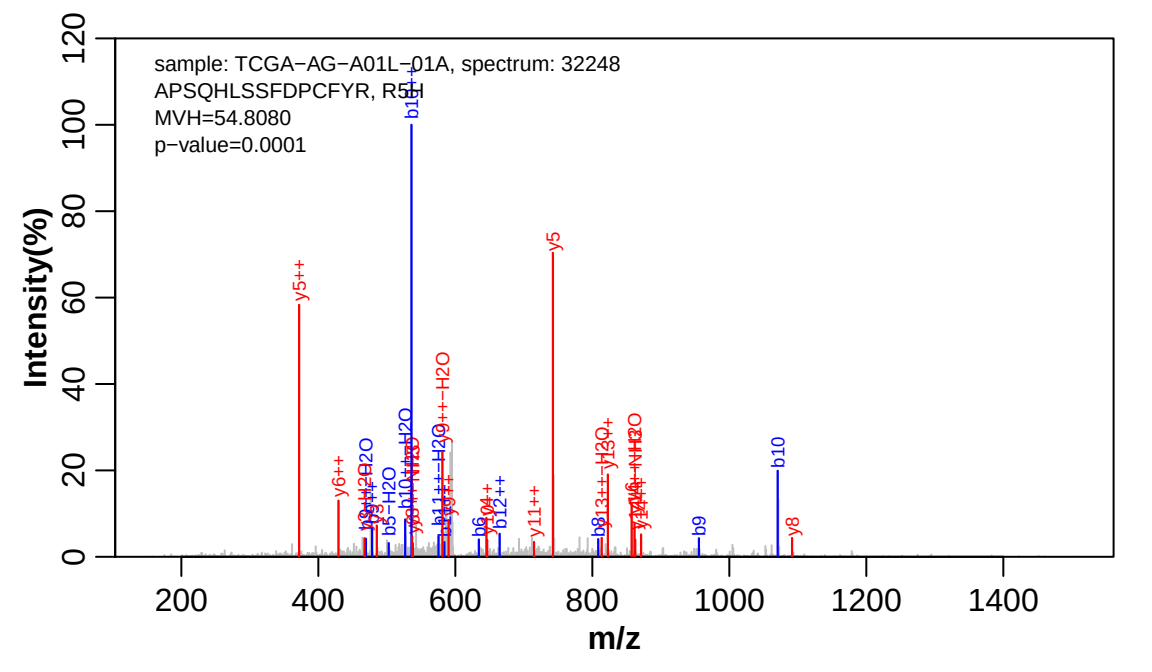

sample: TCGA−AG−A01L−01A, spectrum: 57002
AAAPAPVSEAVSR, C12S
MVH=51.1645
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b10−H2O
y10
y10−H2O

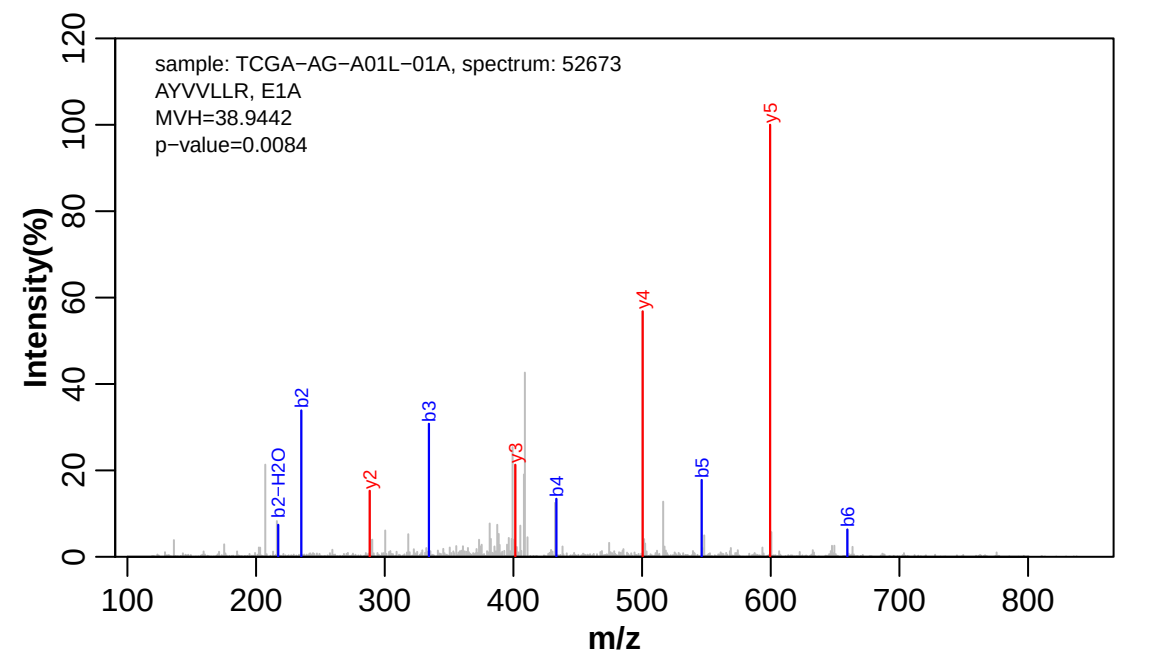

sample: TCGA−AG−A01L−01A, spectrum: 32698
AAPSVTLFPPSSEELQANK, T2A
MVH=51.6805
p−value=0.0001
y11
y12
y14
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

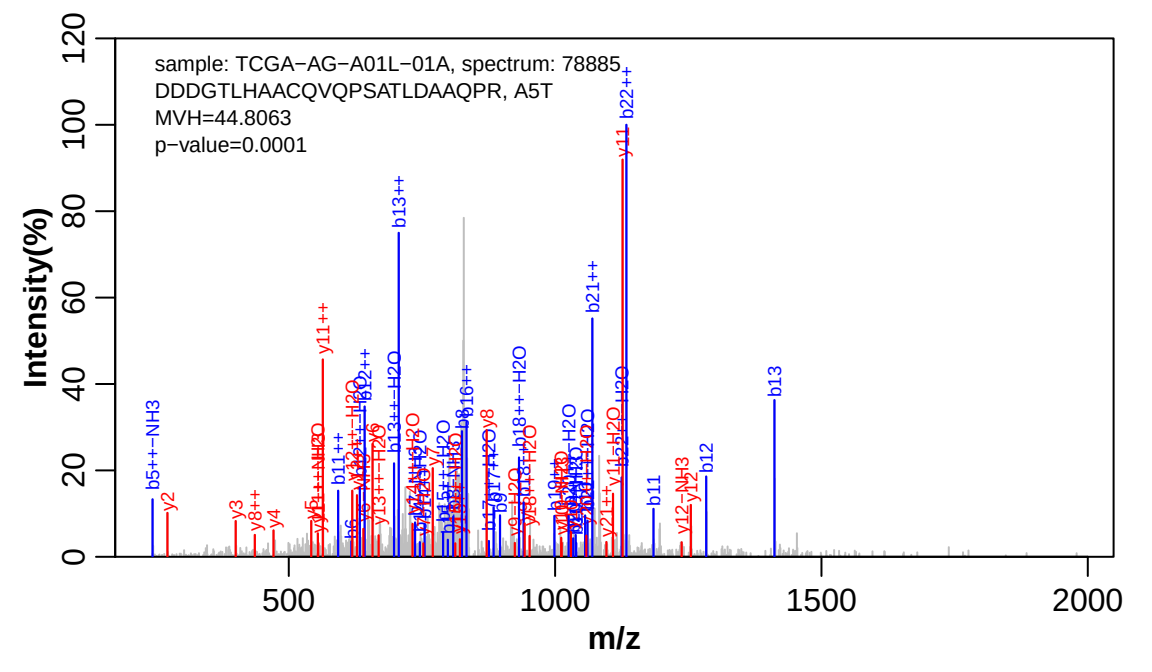

sample: TCGA−AG−A01L−01A, spectrum: 101447
ACNVLQSSHLEDYPFDAEY, N16D
MVH=37.4256
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y6
y6−H2O
y7
y8
b10
b11
b12
b13
y12
y13
b15

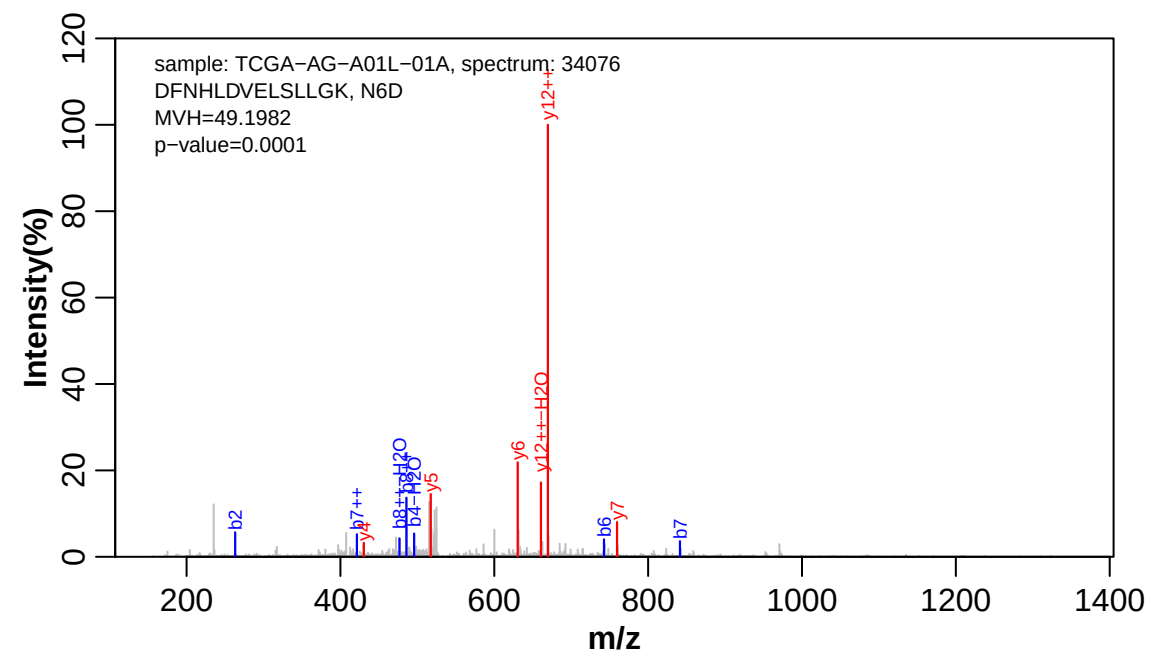

sample: TCGA−AG−A01L−01A, spectrum: 35519
AGVETTTPSK, K7T
MVH=25.9116
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b3−H2O
b3
b4−H2O
b4
b5
b6−H2O
b7−H2O
y6
y7
y8
y9−H2O

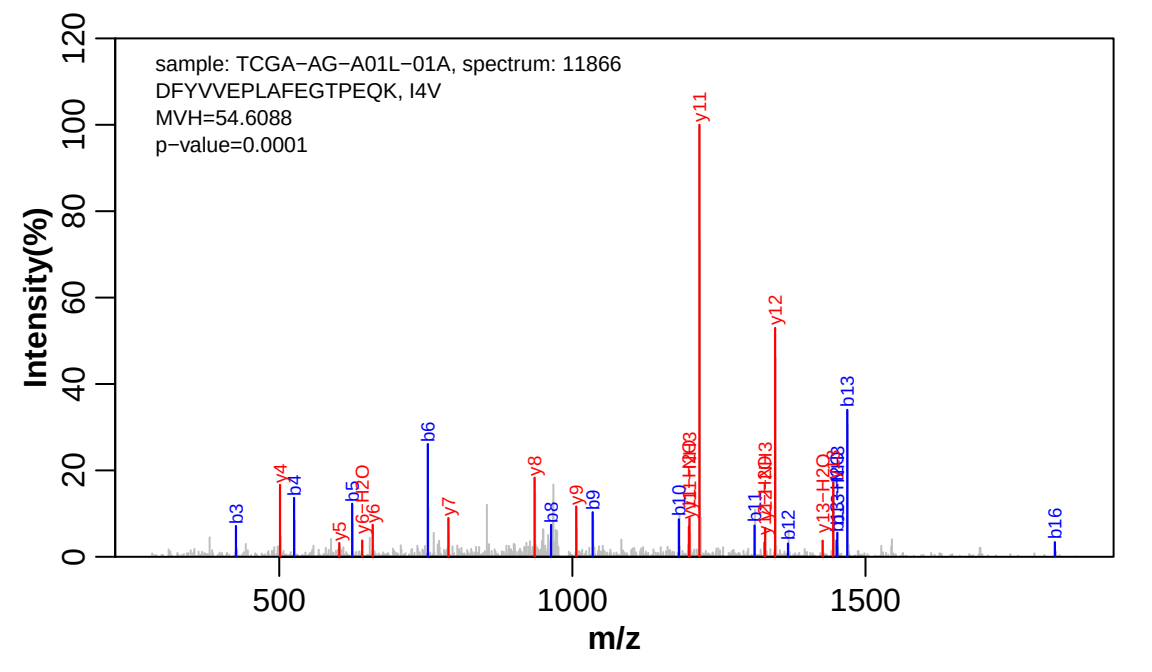

sample: TCGA−AG−A01L−01A, spectrum: 26770
ALEDVFDALEGK, M5V
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4
y4
b5−NH3
b5−H2O
b5
y6
b6
y7
b7
y8−H2O
y8
y9−H2O
y9
y10−H2O
y10
b11

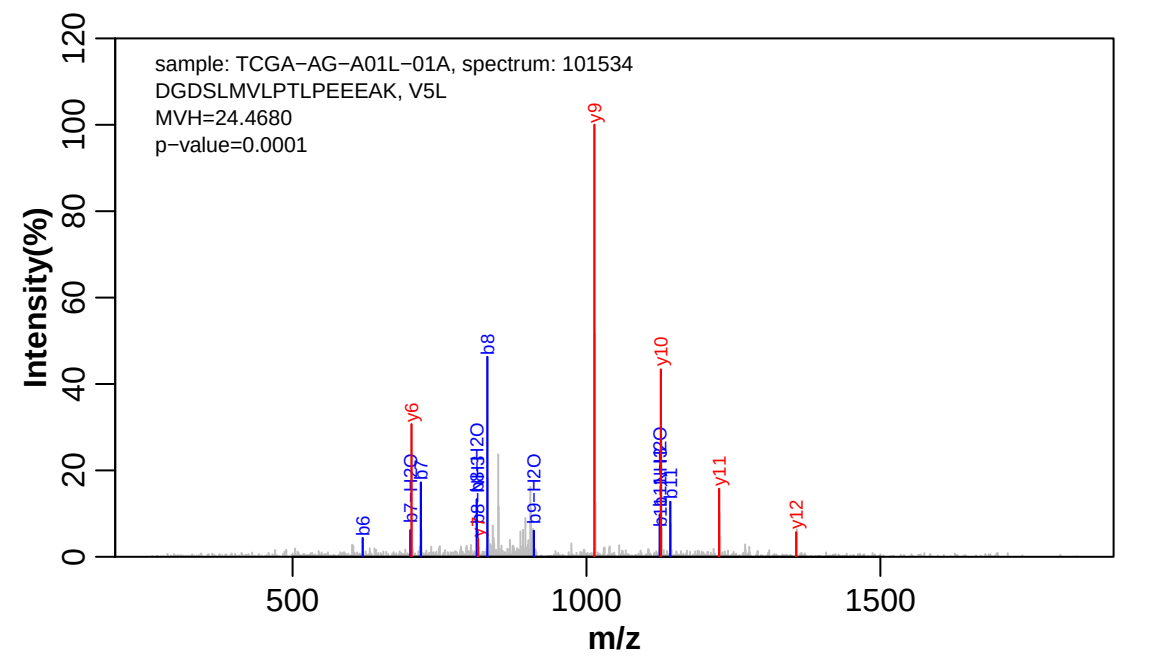

sample: TCGA−AG−A01L−01A, spectrum: 32248
APSQHLSSFDPCFYR, R5H
MVH=54.8080
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b15++
y5++
y5
y6++
b5−H2O
b10−NH3
y9++−H2O
b12++
y11++
b13++−H2O
b10
b9
y8

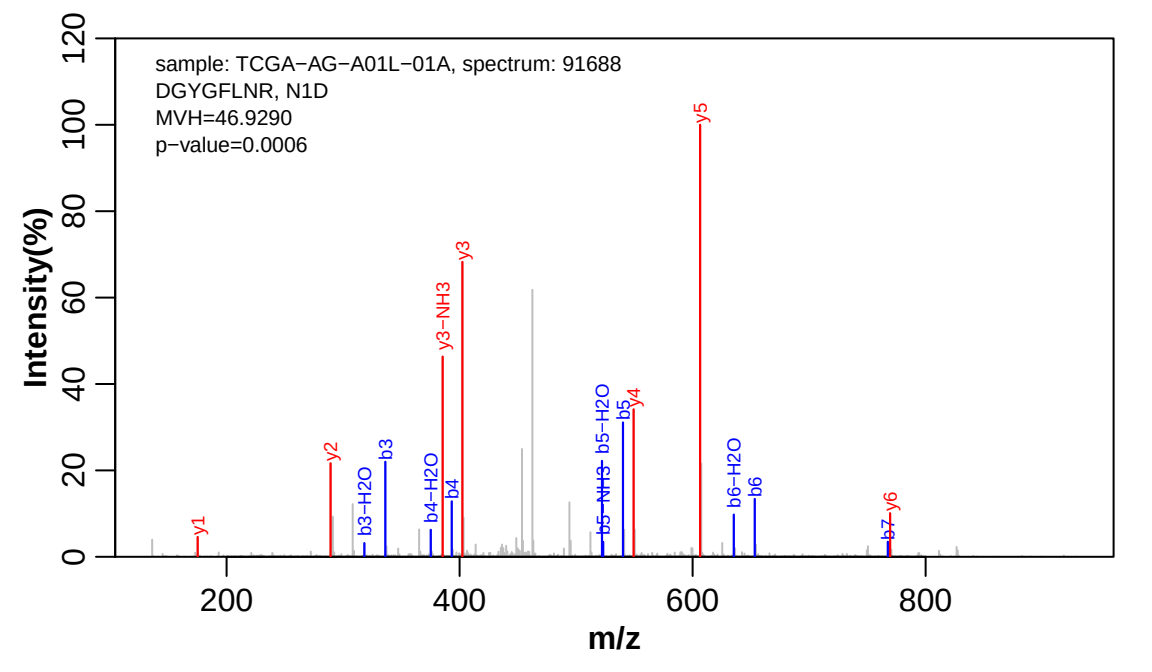

sample: TCGA−AG−A01L−01A, spectrum: 52673
AYVVLLR, E1A
MVH=38.9442
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

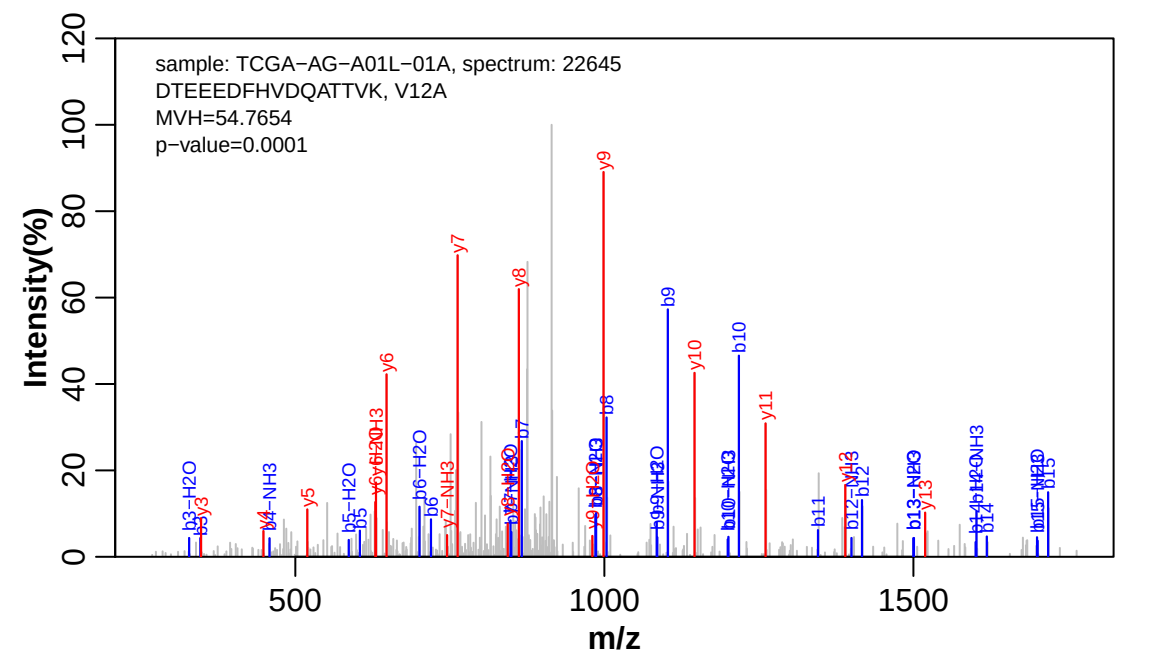

sample: TCGA−AG−A01L−01A, spectrum: 78885
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=44.8063
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5++−NH3
y2
y3
y8++
y4
y11++
b11++
b13++
b13++−H2O
b21++
b22++
y11
b13
b12
b11
y12−NH3

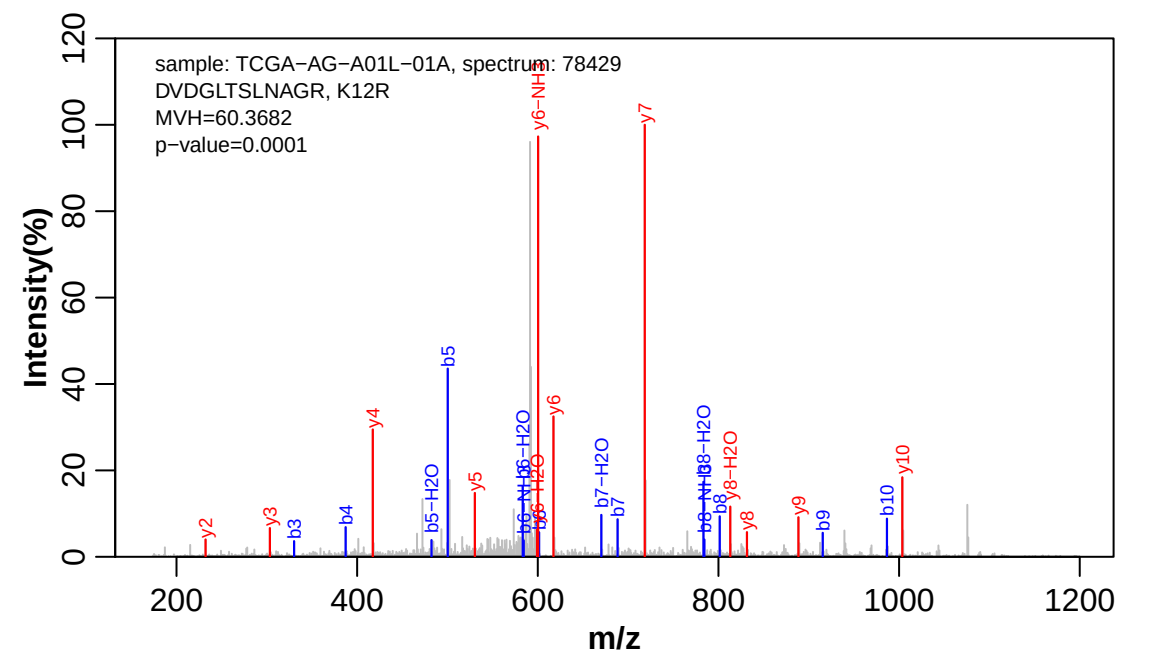

sample: TCGA−AG−A01L−01A, spectrum: 34076
DFNHLDVELSLLGK, N6D
MVH=49.1982
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y12++
y12++−H2O
y6
y5
y7++
y4
b2
b8++−H2O
b8++−NH3
b4−H2O
b4−NH3
b6
y7
b7

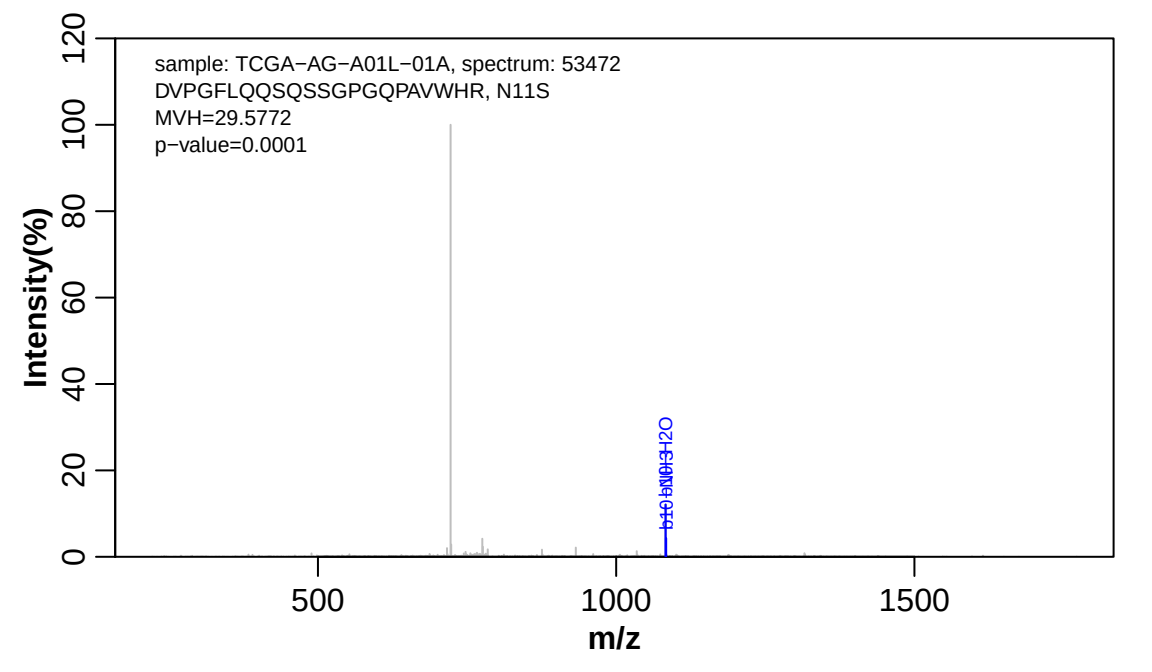

sample: TCGA−AG−A01L−01A, spectrum: 11866
DFYVVEPLAFEGTPEQK, I4V
MVH=54.6088
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y11
y12
b13
b6
y8
y4
b4
b3
y5
y6−H2O
b5
y7
b8
y9
b9
b10
b11
y13−H2O
b12
b16

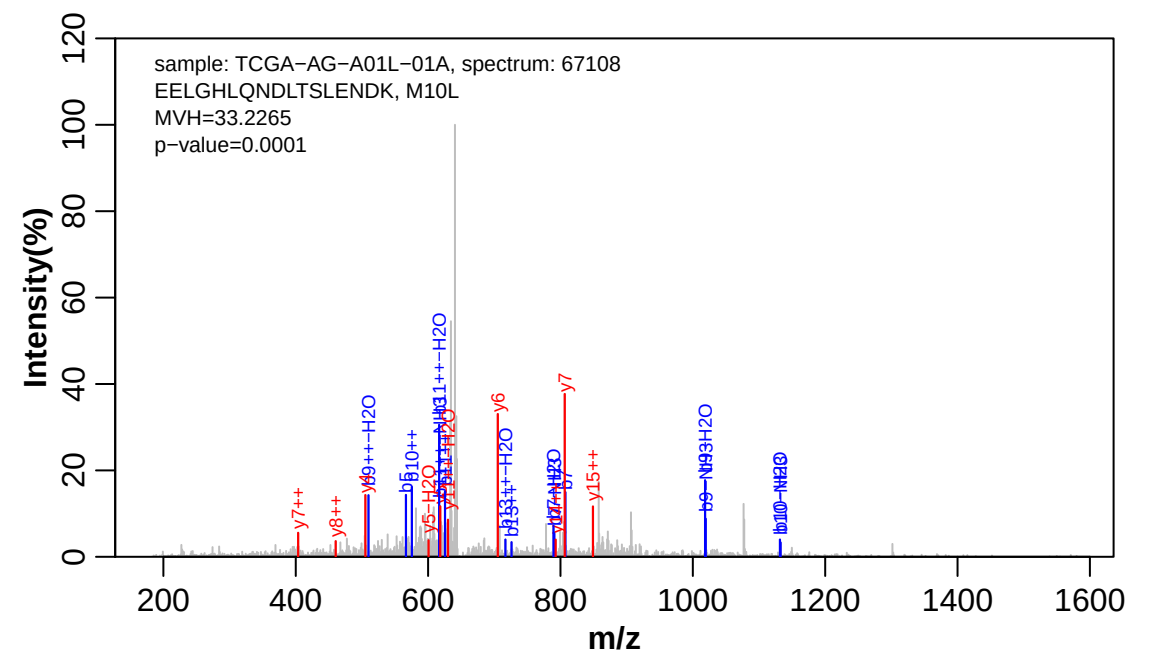

sample: TCGA−AG−A01L−01A, spectrum: 101534
DGDSLMVLPTLPEEEAK, V5L
MVH=24.4680
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
b8
y10
y6
b7−H2O
b7
b6
b9−H2O
y11
y12

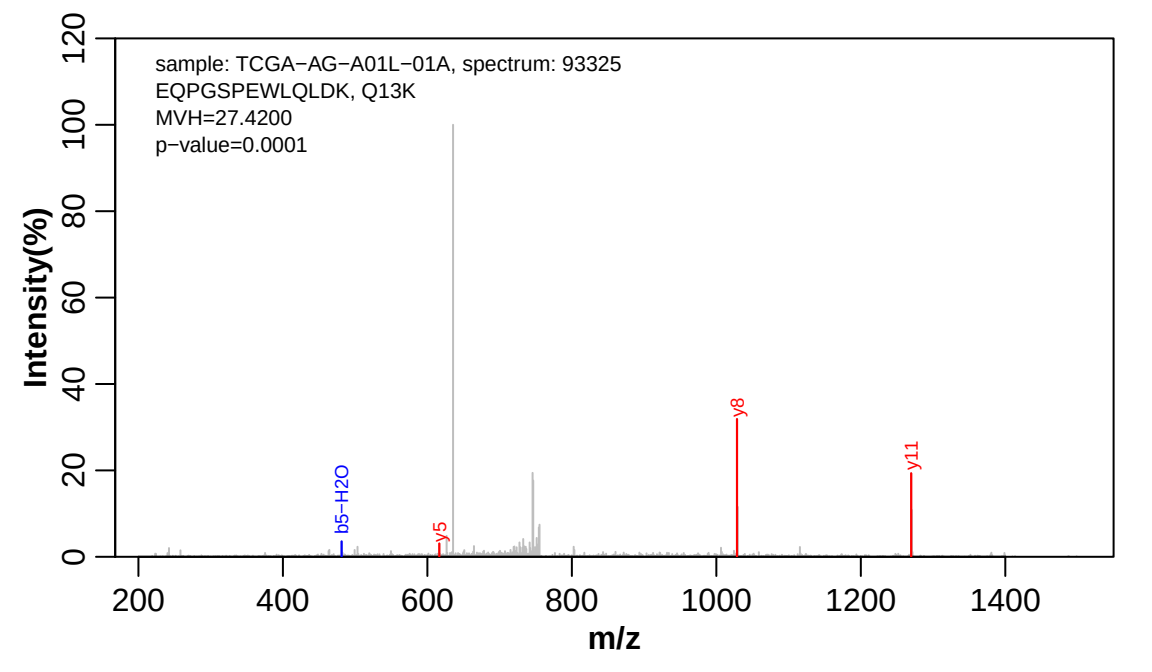

sample: TCGA−AG−A01L−01A, spectrum: 91688
DGYGFLNR, N1D
MVH=46.9290
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

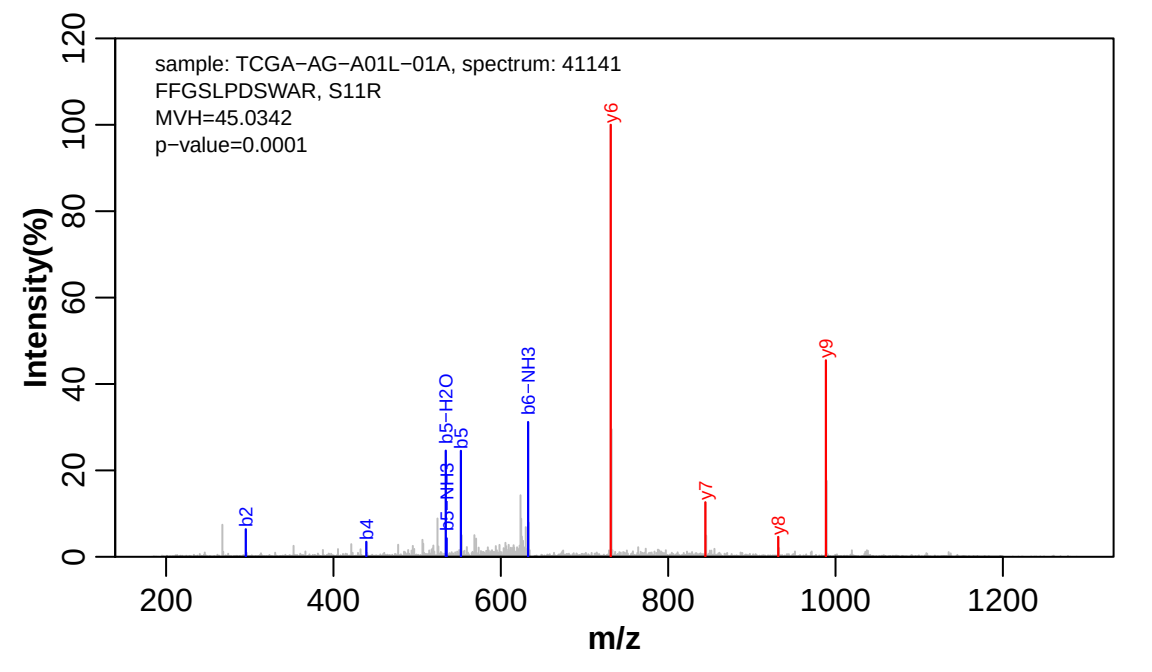

sample: TCGA−AG−A01L−01A, spectrum: 22645
DTEEEDFHVDQATTVK, V12A
MVH=54.7654
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y8
y7
y6
y5
y4
y3
y10
y11
y13
b9
b10
b8
b7
b6
b5
b4
b3
b11
b12
b14
b15
b3−H2O
y4−NH3
b5−H2O
y6−H2O
b6−H2O
y7−NH3
b9−NH3
b13−NH3
b14−H2O
b14−NH3
b15−NH3

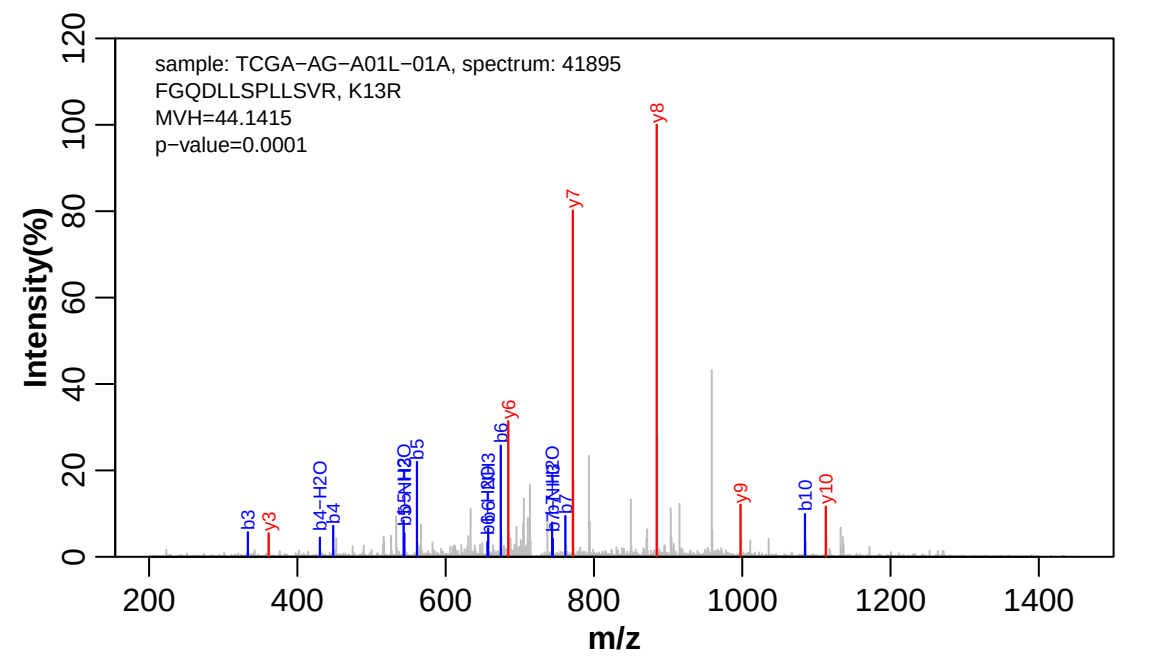

sample: TCGA−AG−A01L−01A, spectrum: 78429
DVDGLTSLNAGR, K12R
MVH=60.3682
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
y6−NH3
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8−H2O
y8
y9
b9
b10
y10

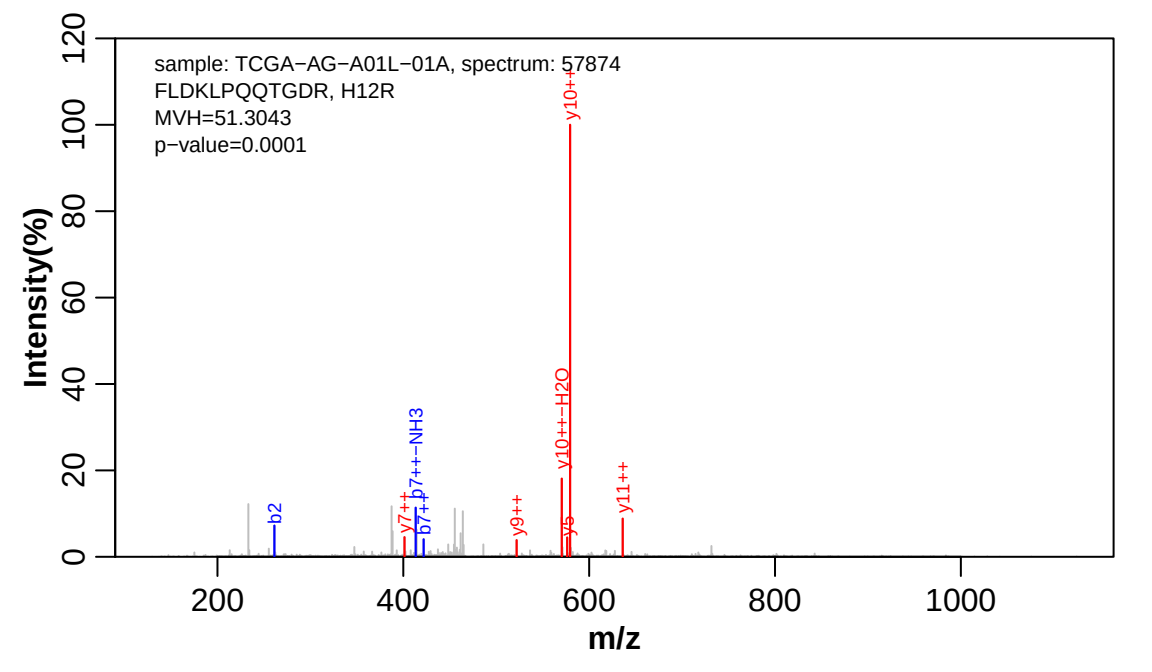

sample: TCGA−AG−A01L−01A, spectrum: 53472
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=29.5772
p−value=0.0001
b10-NH3-H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

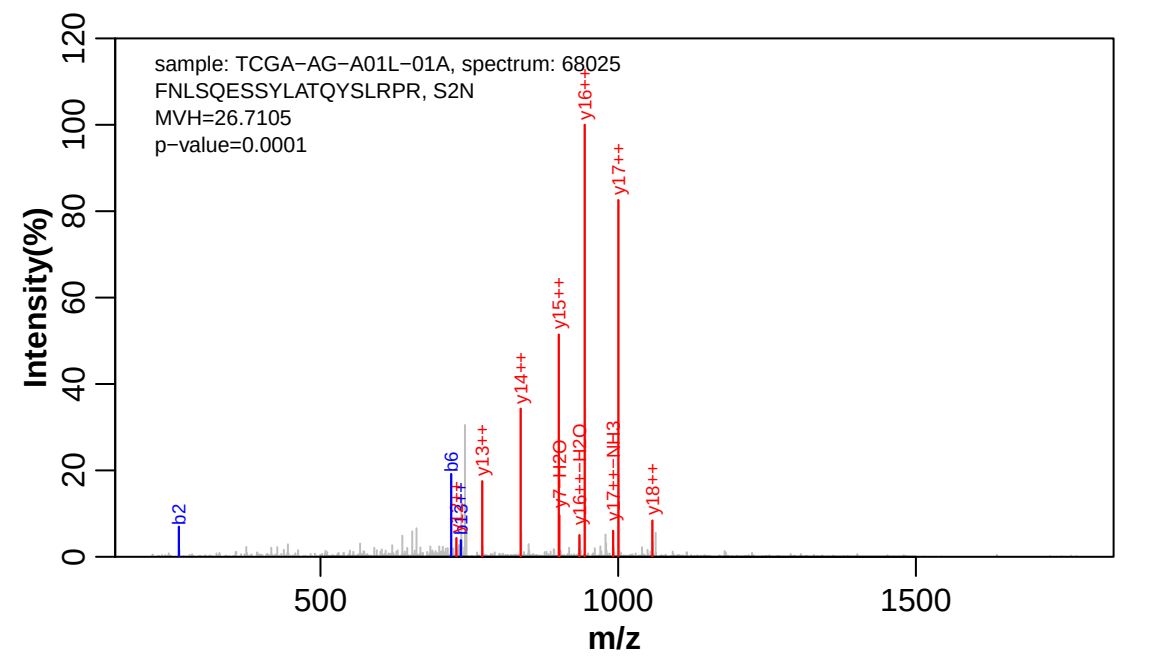

sample: TCGA−AG−A01L−01A, spectrum: 67108
EELGHLQNDLTSLENDK, M10L
MVH=33.2265
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7++
y8++
y9++−H2O
b5
b10++
y5−H2O
y6
y7
y15++
b9−NH3−H2O
b10−NH3

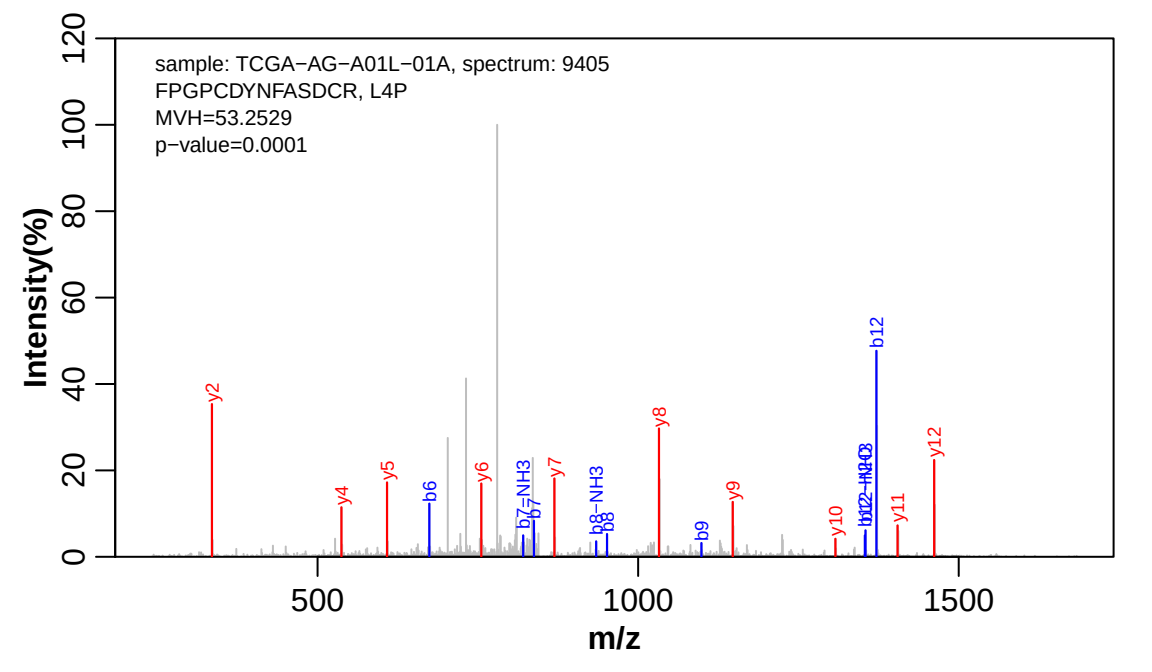

sample: TCGA−AG−A01L−01A, spectrum: 93325
EQPGSPEWLQLDK, Q13K
MVH=27.4200
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y5
y8
y11

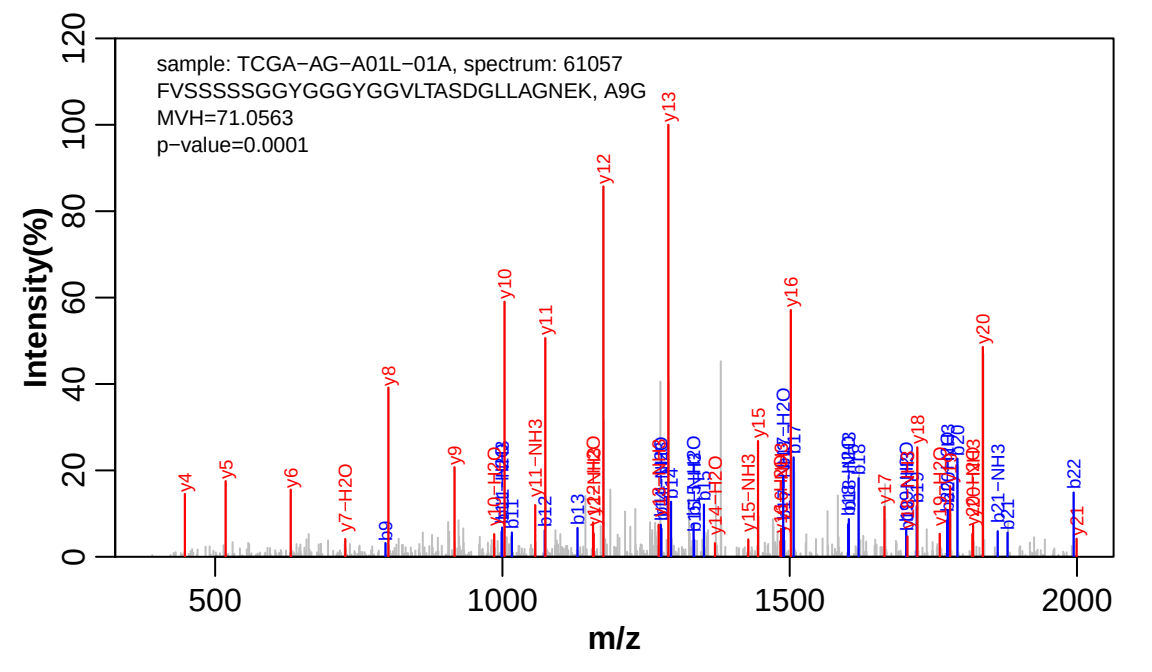

sample: TCGA−AG−A01L−01A, spectrum: 41141
FFGSLPDSWAR, S11R
MVH=45.0342
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

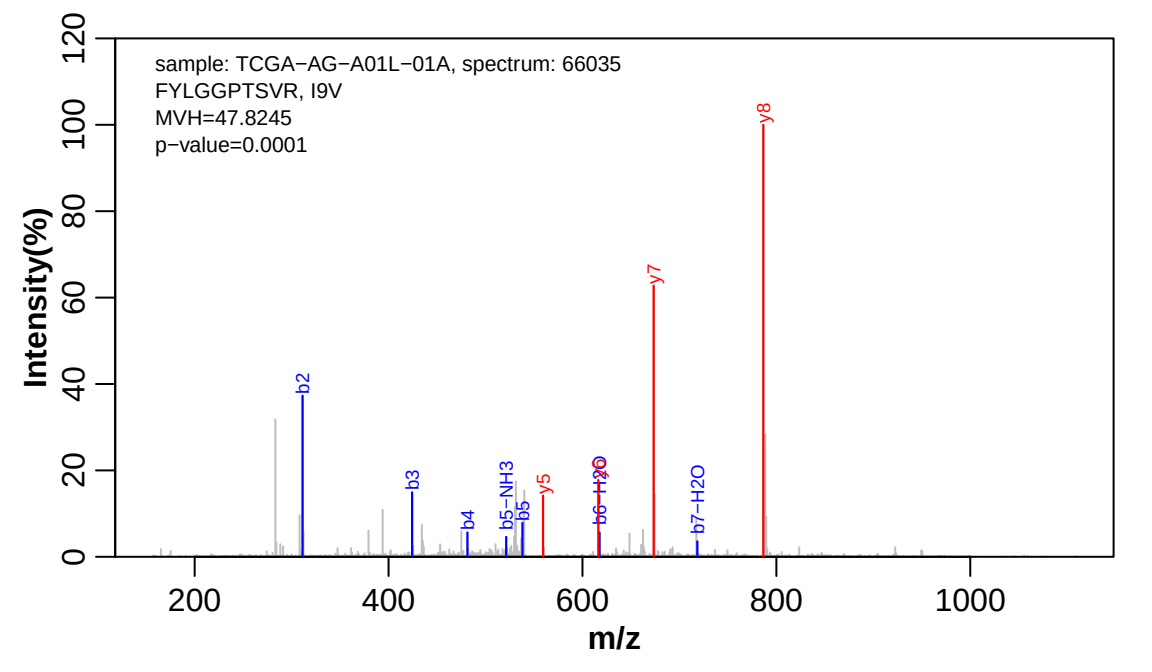

sample: TCGA−AG−A01L−01A, spectrum: 41895
FGQDLLSPLLSVR, K13R
MVH=44.1415
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
b6
y6
b7−NH3
b7−H2O
b7
y7
y8
y9
b10
y10

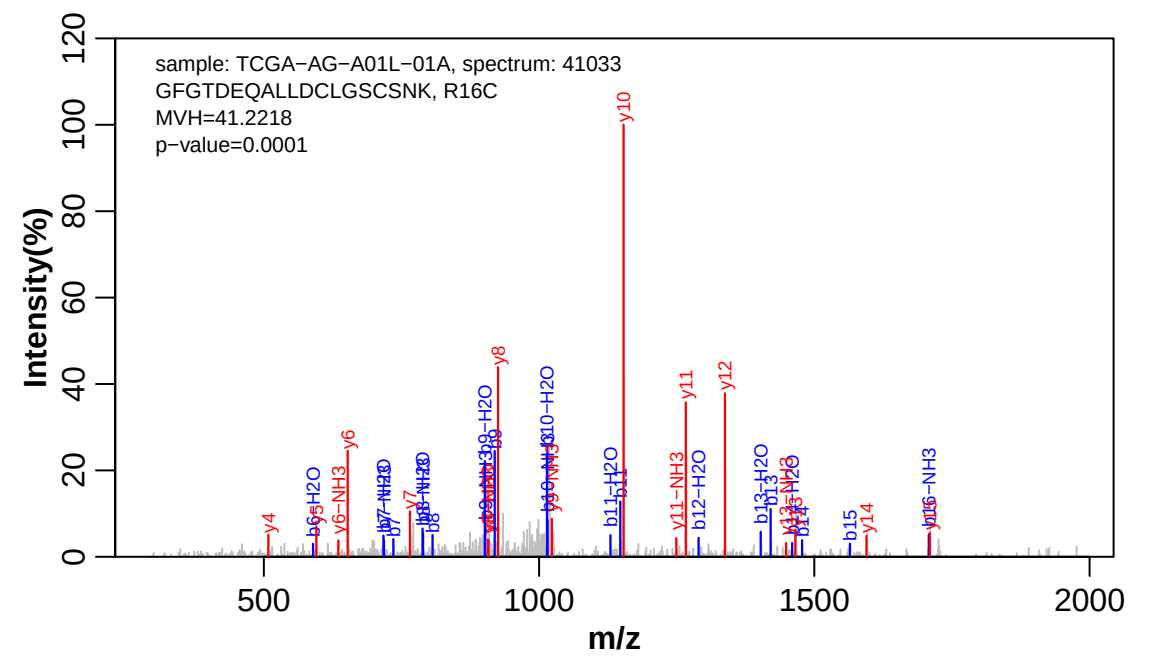

sample: TCGA−AG−A01L−01A, spectrum: 57874
FLDKLPQQTGDR, H12R
MVH=51.3043
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
y7++
b7++−NH3
b7++
y9++
y10++−H2O
y5
y10++
y11++

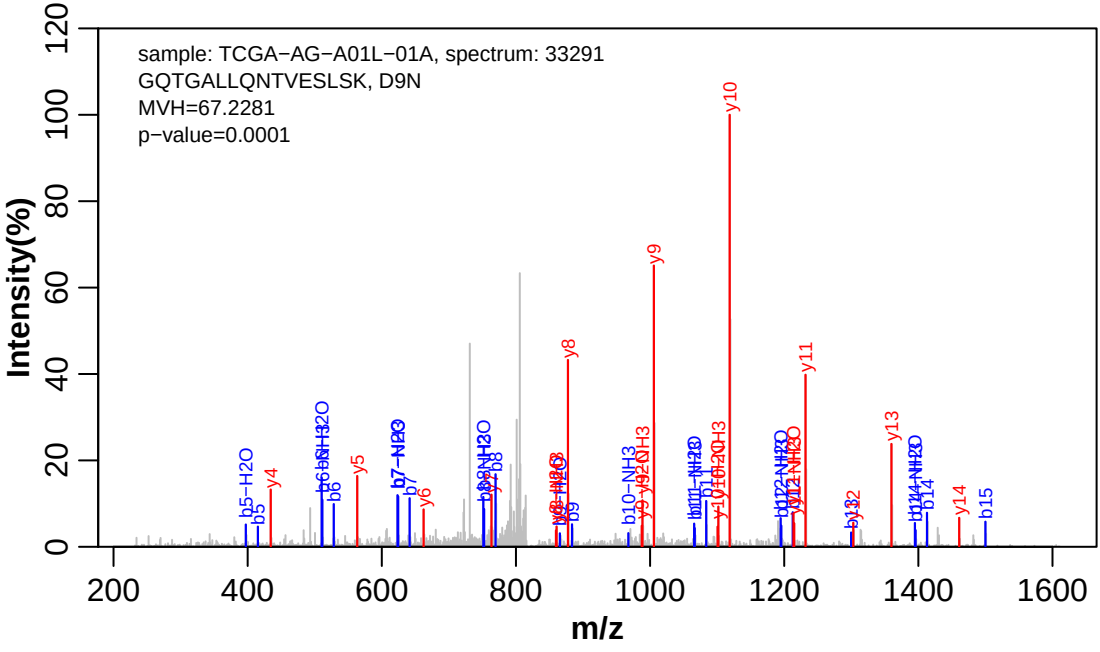

sample: TCGA−AG−A01L−01A, spectrum: 68025
FNLSQESSYLATQYSLRPR, S2N
MVH=26.7105
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b6
b13++
y13++
y14++
y15++
y7−H2O
y16++−H2O
y16++
y17++−NH3
y17++
y18++

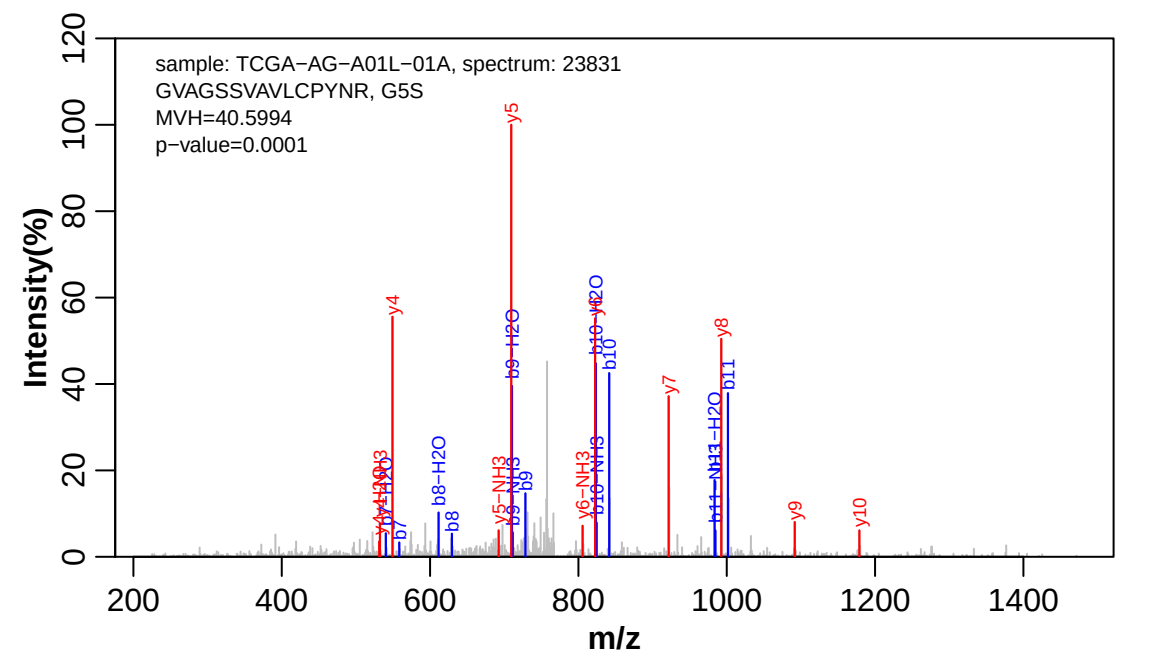

sample: TCGA−AG−A01L−01A, spectrum: 9405
FPGPCDYNFASDCR, L4P
MVH=53.2529
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y4
y5
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9
y9
y10
b12−H2O
b12−NH3
b12
y11
y12

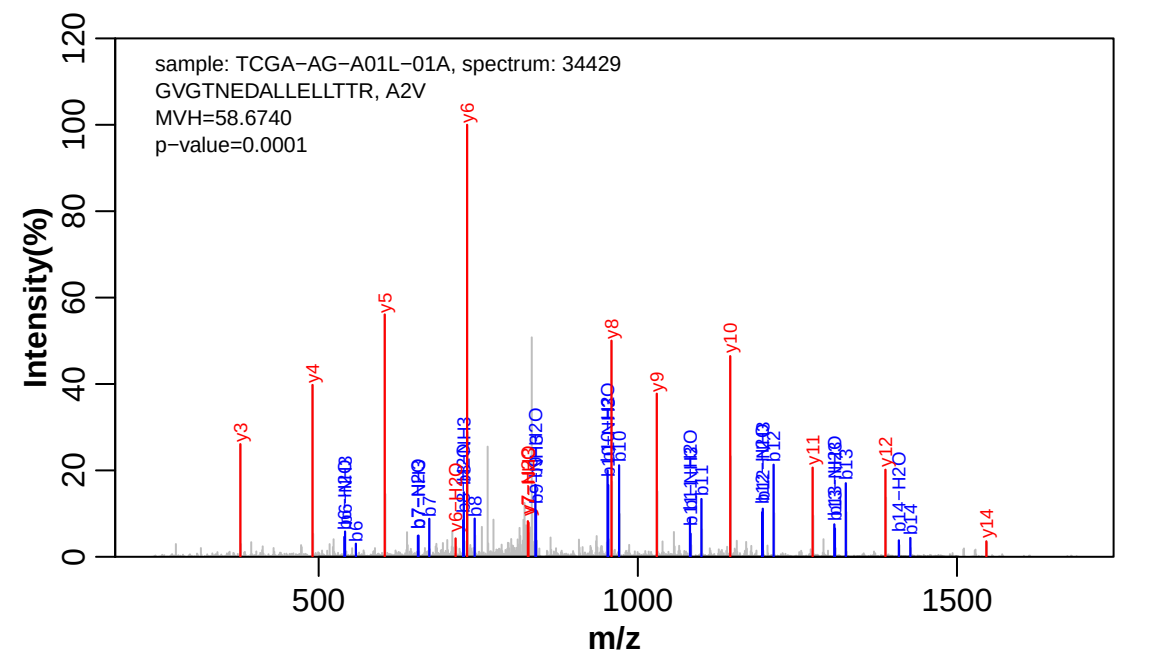

sample: TCGA−AG−A01L−01A, spectrum: 61057
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=71.0563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y13
y12
y10
y11
y8
y16
y20
y9
y15
y18
y4
y5
y6
y7−H2O
b9
b12
y11−NH3
b13
y14−H2O
y15−NH3
b21−NH3
b22
y21

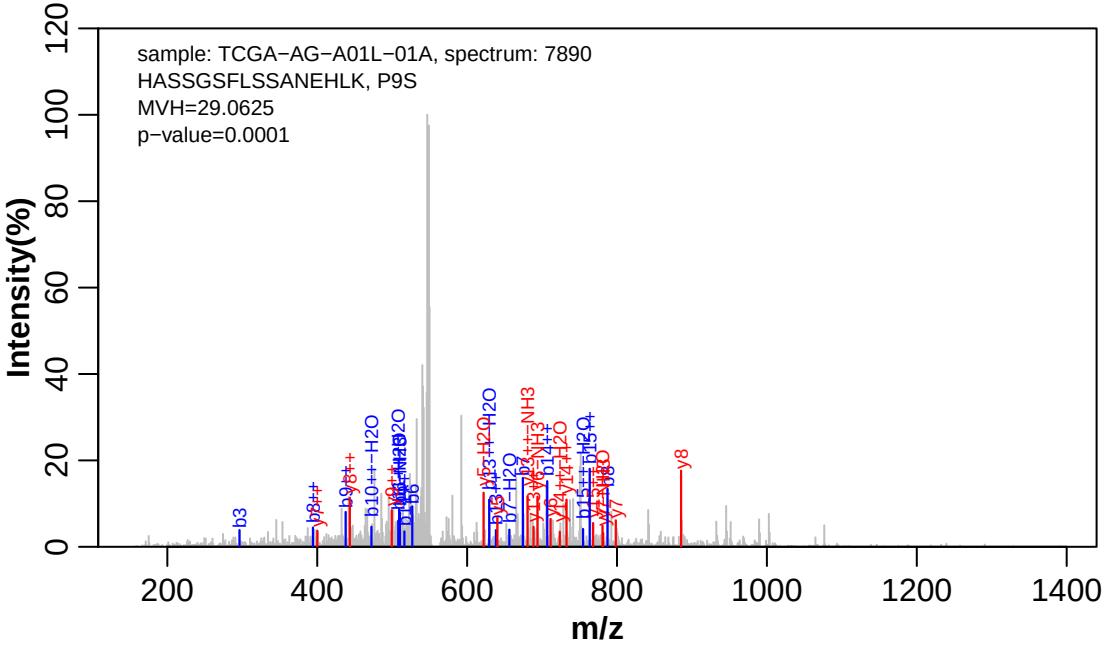

sample: TCGA−AG−A01L−01A, spectrum: 66035
FYLGGPTSVR, I9V
MVH=47.8245
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2
b3
b4
b5−NH3
b5
y5
b6−H2O
y7
b7−H2O
y8

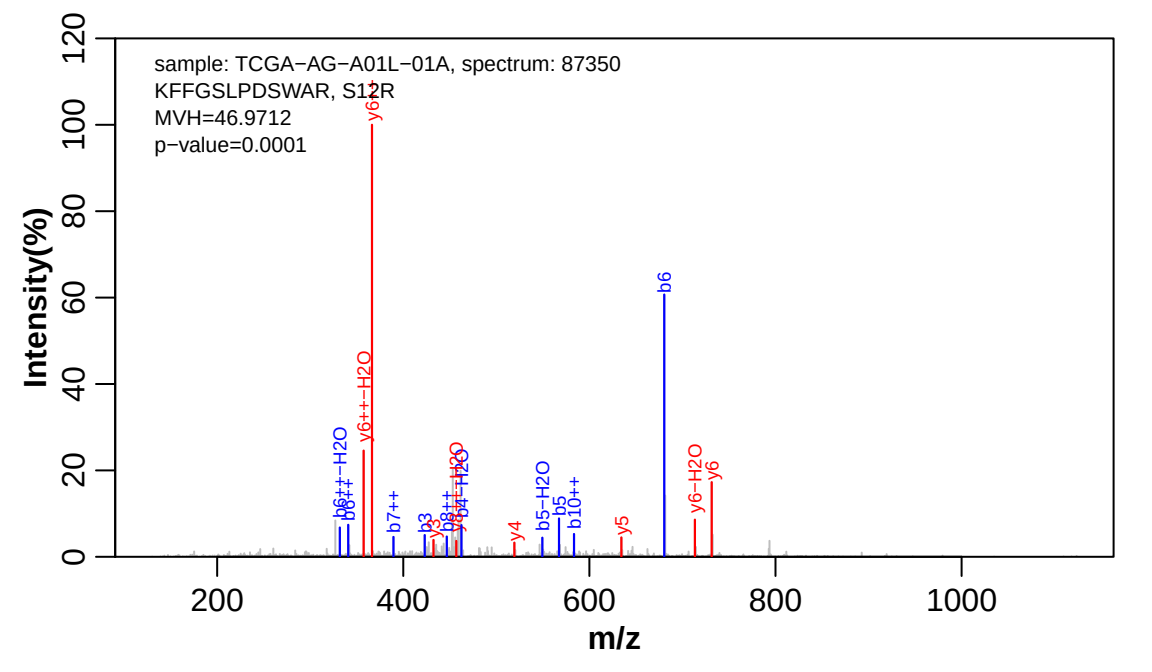

sample: TCGA−AG−A01L−01A, spectrum: 41033
GFGTDEQALLDCLGSCSNK, R16C
MVH=41.2218
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y8
y6
y4
y7
y11
y12
y14
y16−NH3
b11−H2O
b12−H2O
b13−H2O
b15
y11−NH3
y10−H2O
y10−NH3
b5−H2O
y6−NH3

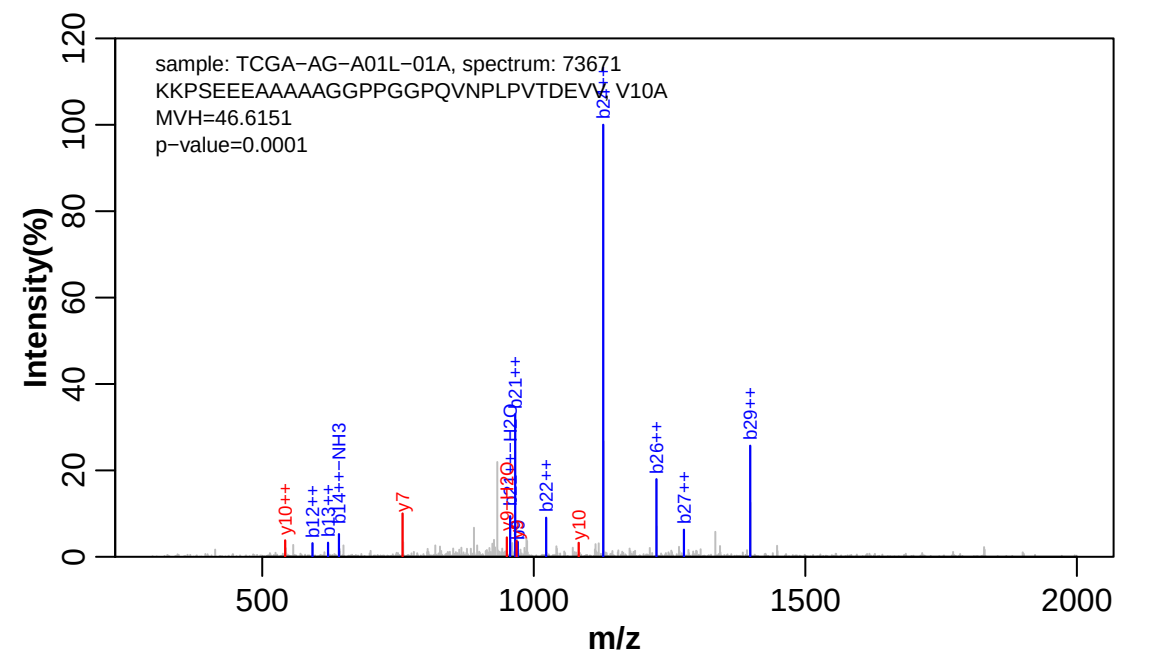

sample: TCGA−AG−A01L−01A, spectrum: 33291
GQTGALLQNTVESLSK, D9N
MVH=67.2281
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y4
y6
b15

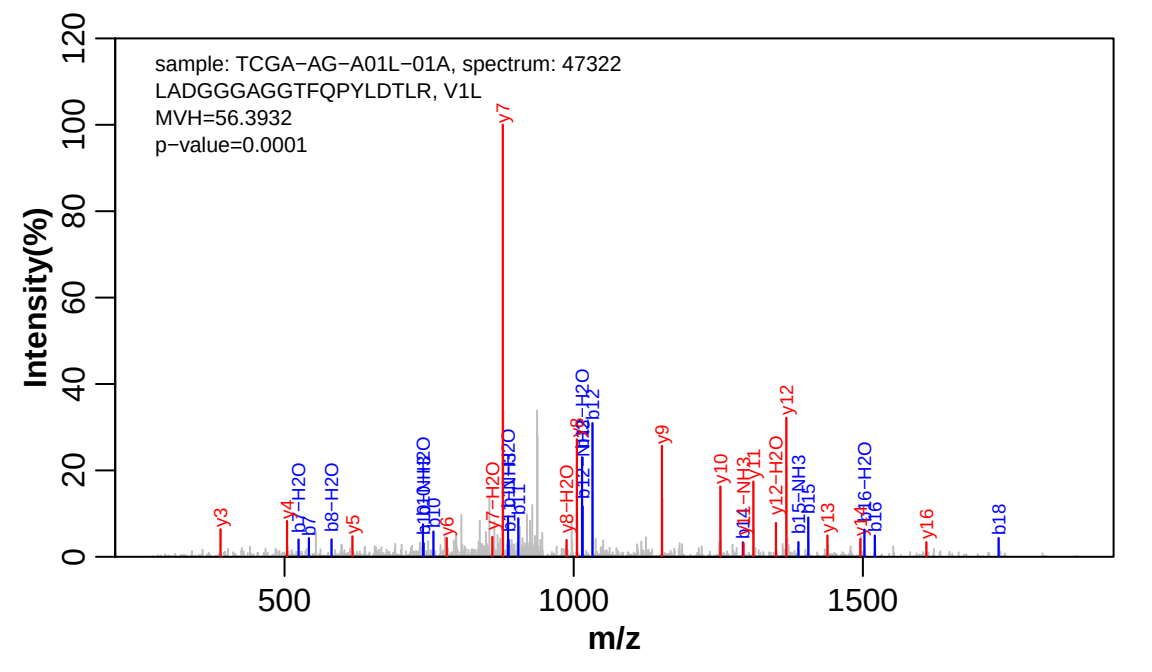

sample: TCGA−AG−A01L−01A, spectrum: 23831
GVAGSSVAVLCPYNR, G5S
MVH=40.5994
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y4
b9−H2O
b8−H2O
b8
y5−NH3
b8−NH3
b9
y6−NH3
b10−NH3
b10−H2O
b10
y7
y8
b11
b11−NH3
b11−H2O
y9
y10

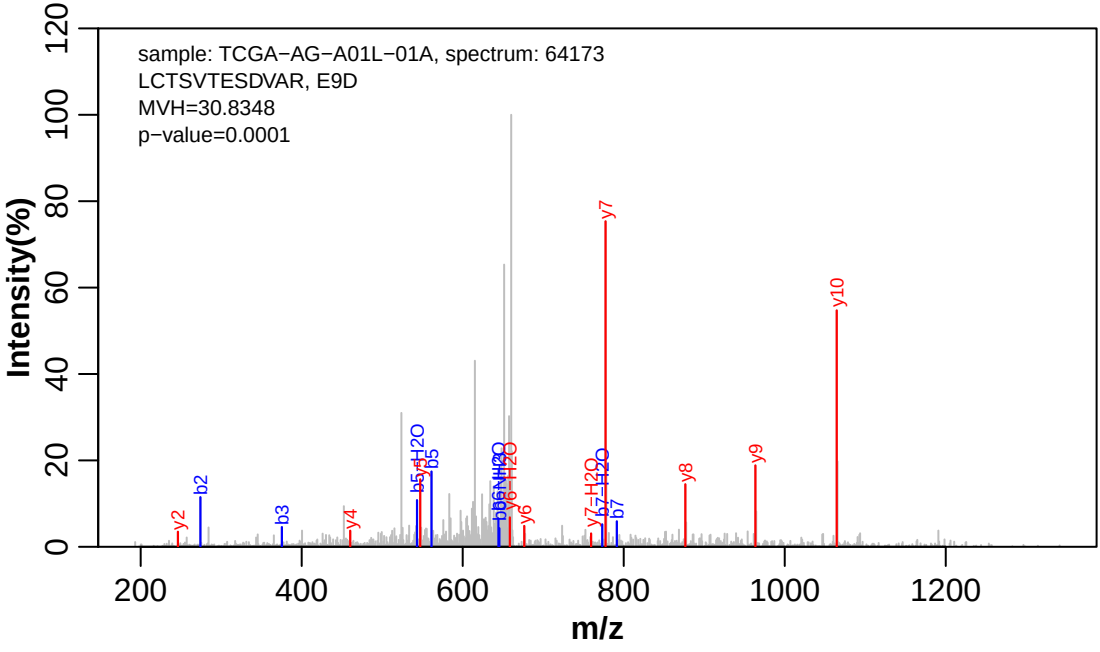

sample: TCGA−AG−A01L−01A, spectrum: 34429
GVGTNEDALLELLTTR, A2V
MVH=58.6740
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
y6
y8
y9
y10
y11
y12
y14
b6
b7
b8
b10
b11
b12
b13
b14

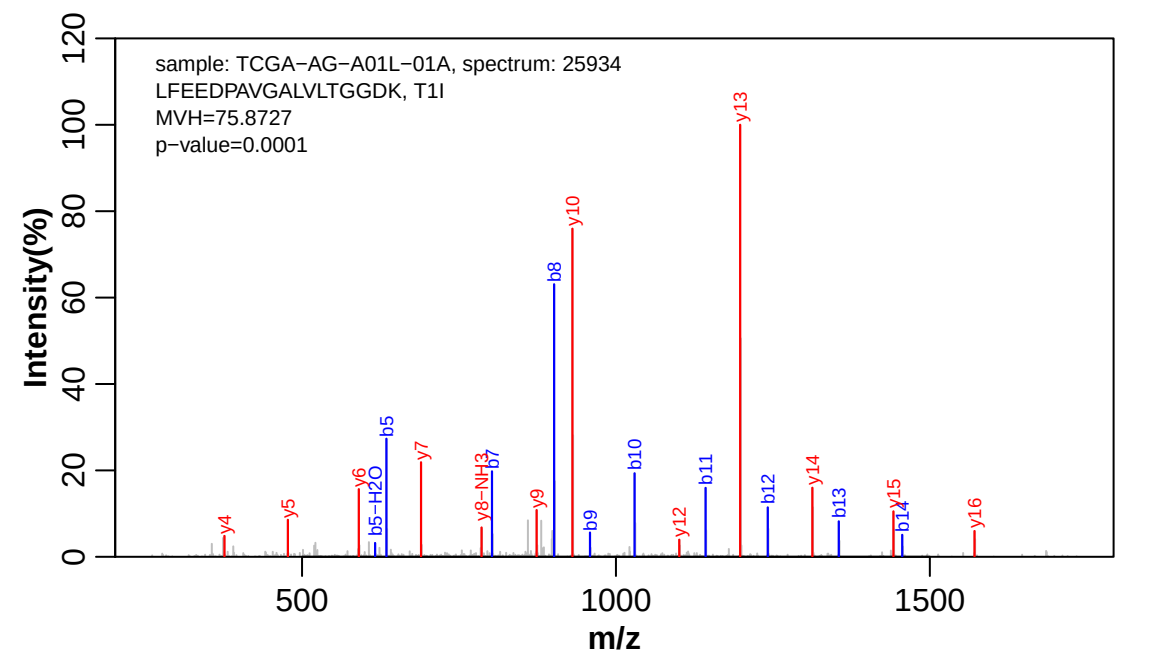

sample: TCGA−AG−A01L−01A, spectrum: 7890
HASSGSFLSSANEHLK, P9S
MVH=29.0625
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3++
b9++
b8++
b10++−H2O
y8
y7
y8++

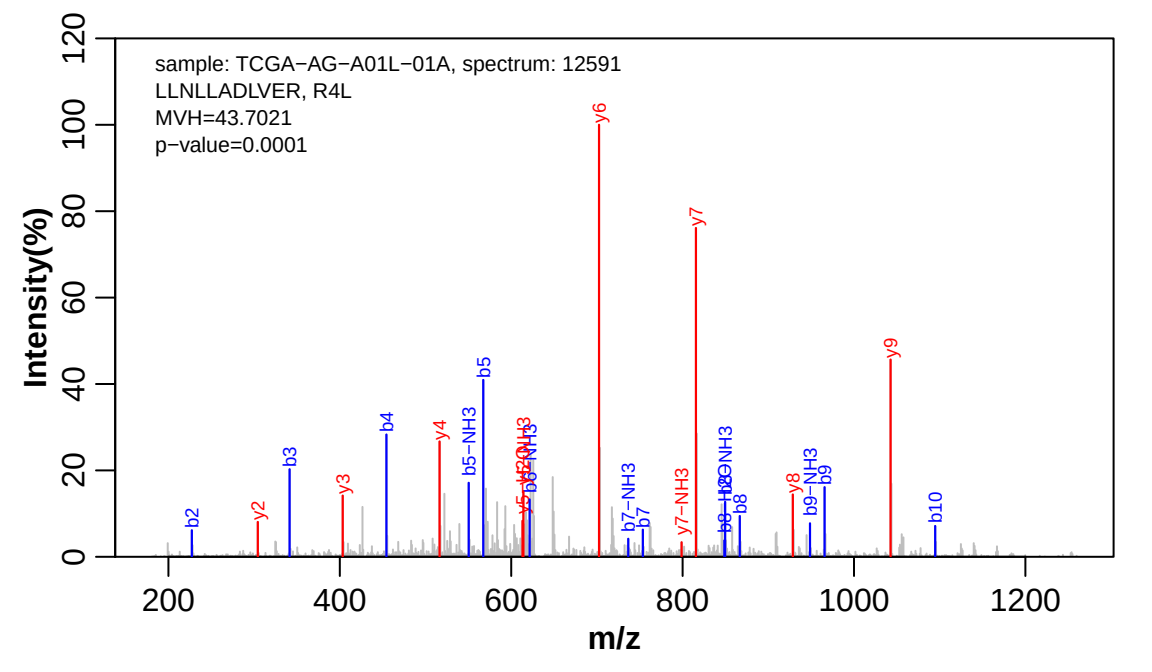

sample: TCGA−AG−A01L−01A, spectrum: 87350
KFFGSLPDSWAR, S12R
MVH=46.9712
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y6++
y6++−H2O
b6++−H2O
b6++
b7++
b3
y3++
b8++
y8++−H2O
b4−H2O
y4
b5−H2O
b5
b10++
y5
b6
y6−H2O
y6

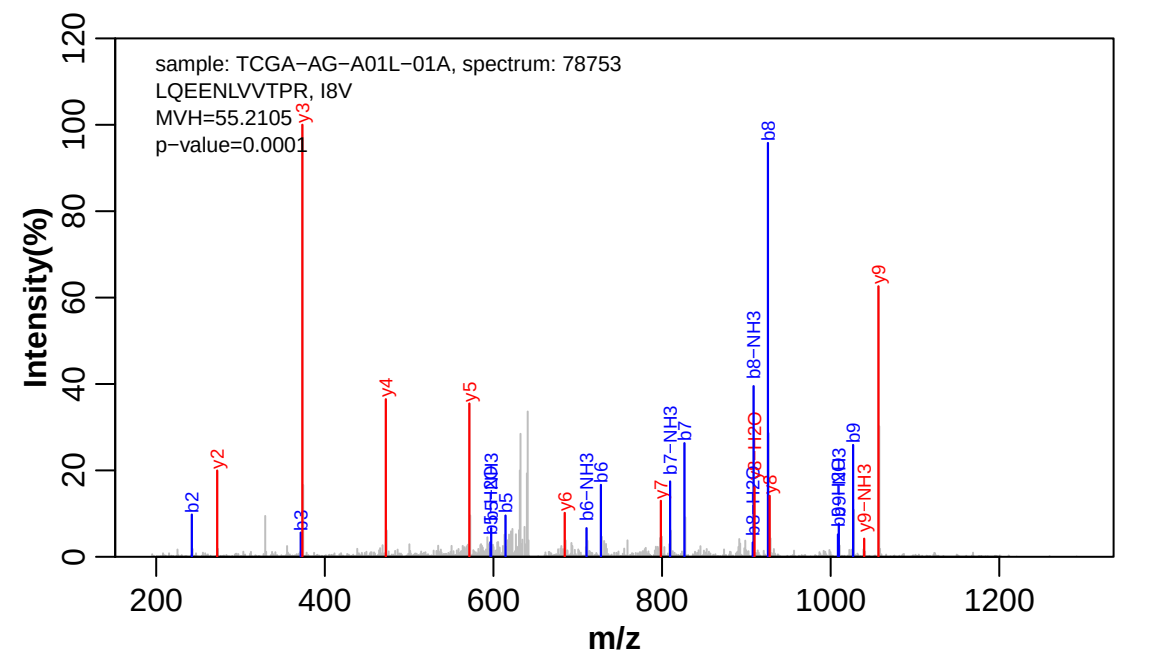

sample: TCGA−AG−A01L−01A, spectrum: 73671
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=46.6151
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b12++
b13++
b14++−NH3
y7
y9−H2O
y9
b21++
b22++
y10
b24++
b26++
b27++
b29++

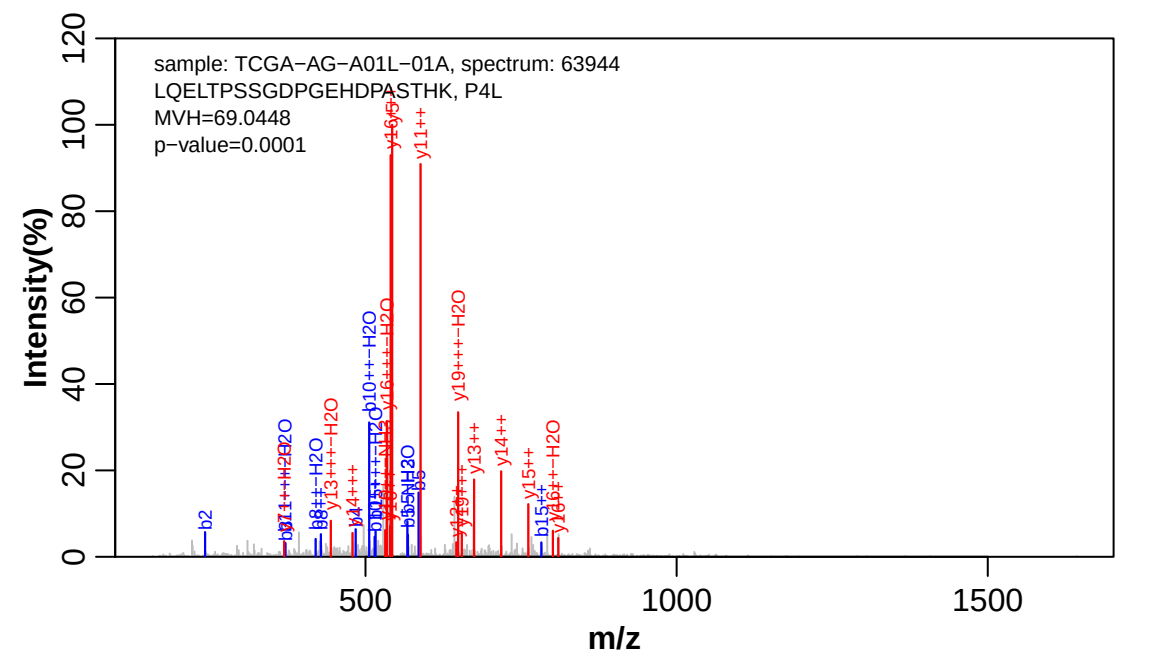

sample: TCGA−AG−A01L−01A, spectrum: 47322
LADGGGAGGTFQPYLDTLR, V1L
MVH=56.3932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
y7−H2O
b7
b8−H2O
y5
b10−NH3
b10
y6
y7−H2O
b11−NH3
b11
y8−H2O
y8
b12−NH3
b12−H2O
y9
y10
b14−NH3
y11
y12−H2O
y12
b15−NH3
b15
y13
y14−H2O
b16
y16
b18

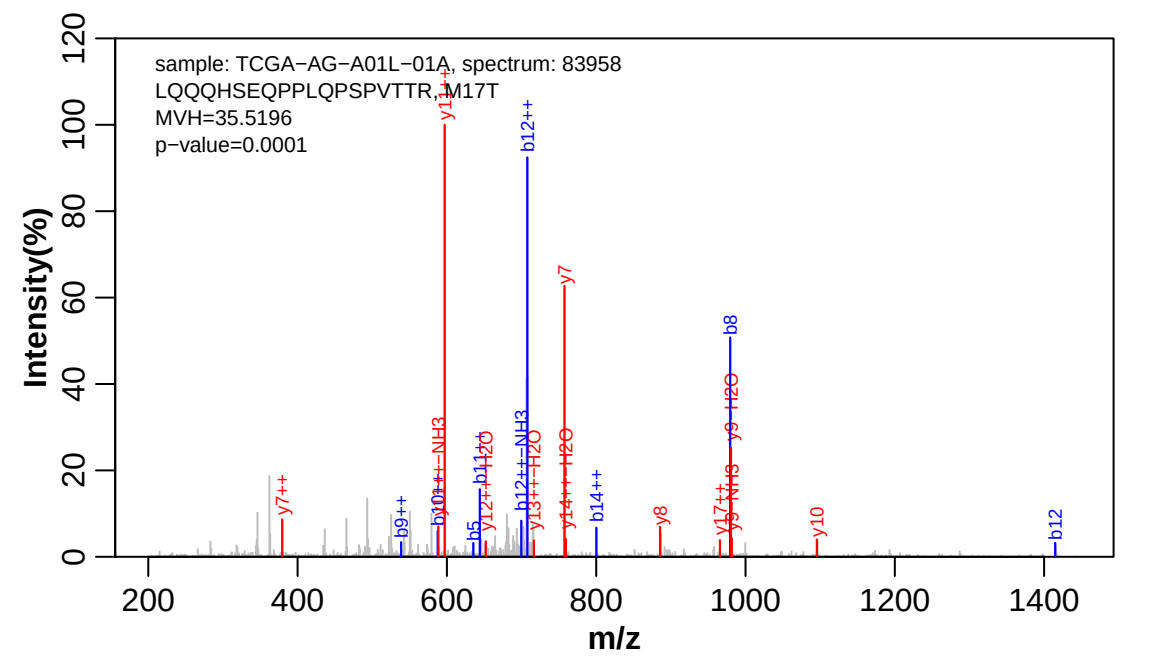

sample: TCGA−AG−A01L−01A, spectrum: 64173
LCTSVTESDVAR, E9D
MVH=30.8348
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b2
b3
y4
b5−H2O
b5
b6−NH3
b6−H2O
y6
y7
y7−H2O
b7−H2O
b7
y8
y9
y10

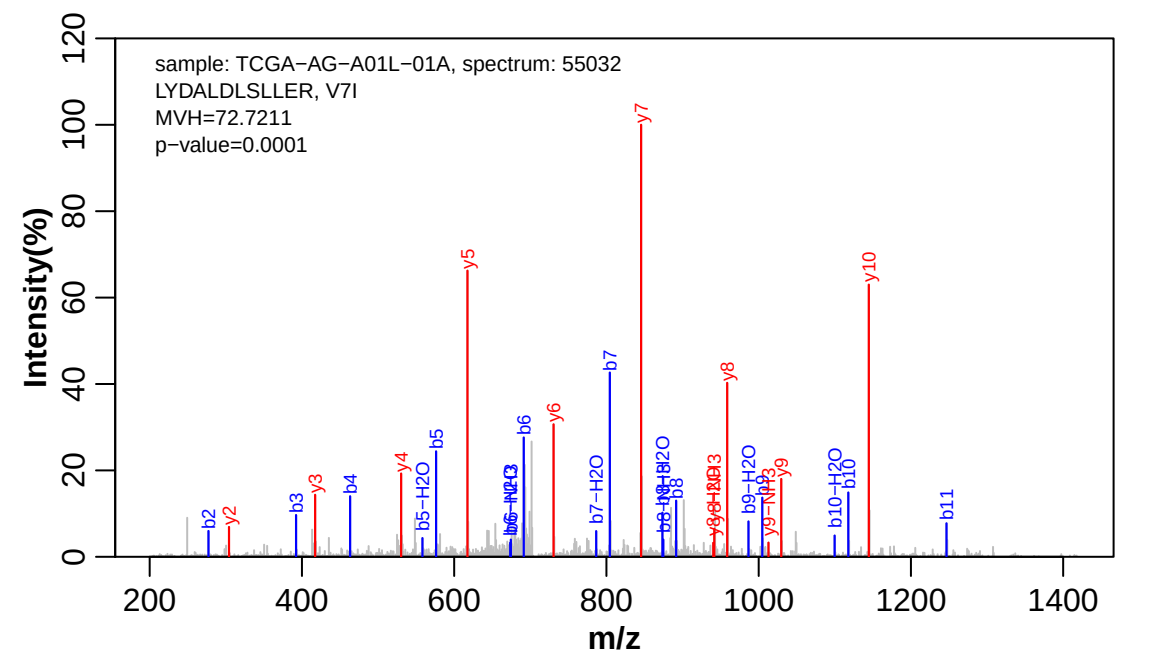

sample: TCGA−AG−A01L−01A, spectrum: 25934
LFEEDPAVGALVLTGGDK, T1I
MVH=75.8727
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
b5−H2O
b5
y7
y8−NH3
b7
y9
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

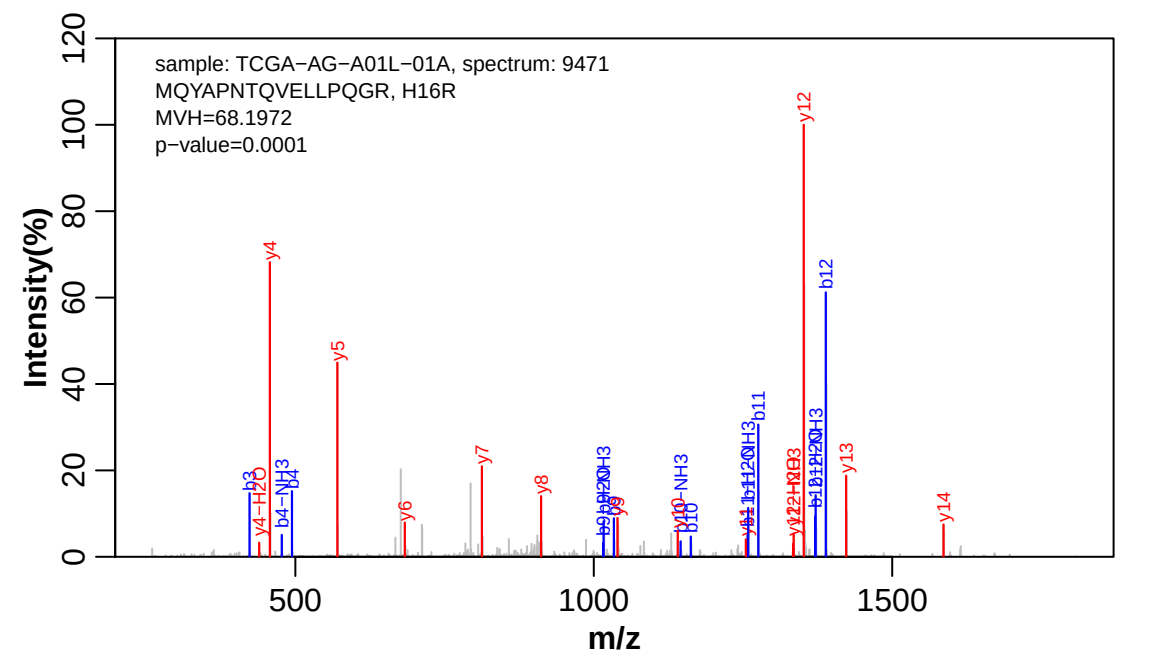

sample: TCGA−AG−A01L−01A, spectrum: 12591
LLNLLADLVER, R4L
MVH=43.7021
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4
y4
b5−NH3
b5
y6
b7−NH3
b7
y7−NH3
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

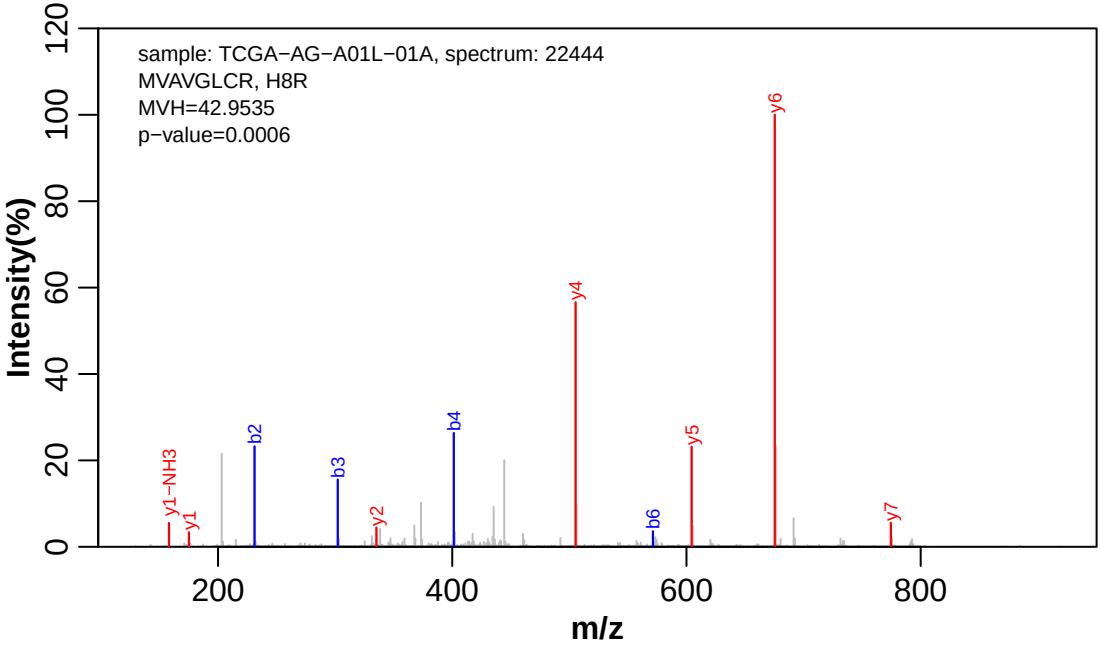

sample: TCGA−AG−A01L−01A, spectrum: 78753
LQEENLVVTPR, I8V
MVH=55.2105
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
y4
y5
b5
y6
b6−NH3
b6
y7
b7−NH3
b7
b8−NH3
b8
y8
b9
y9
y9−NH3

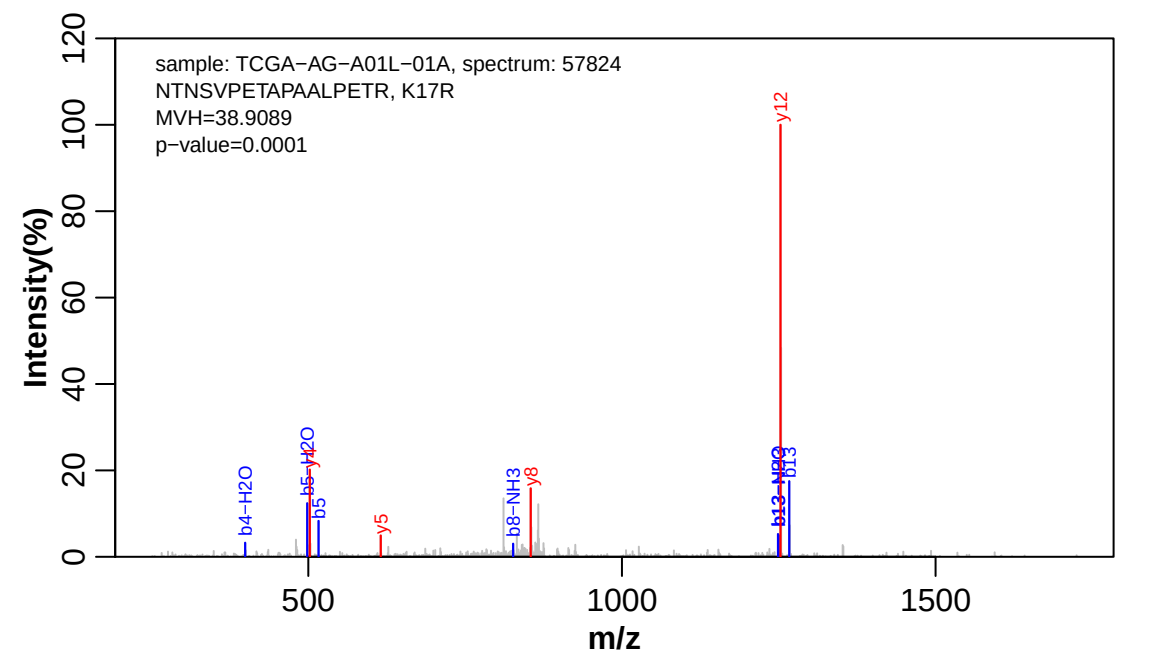

sample: TCGA−AG−A01L−01A, spectrum: 63944
LQELTPSSGDPGEHDPASTHK, P4L
MVH=69.0448
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y11++
y19+++−H2O
y13++
y14++
y15++
y13+++−H2O
b10+++−H2O
y16+++−H2O

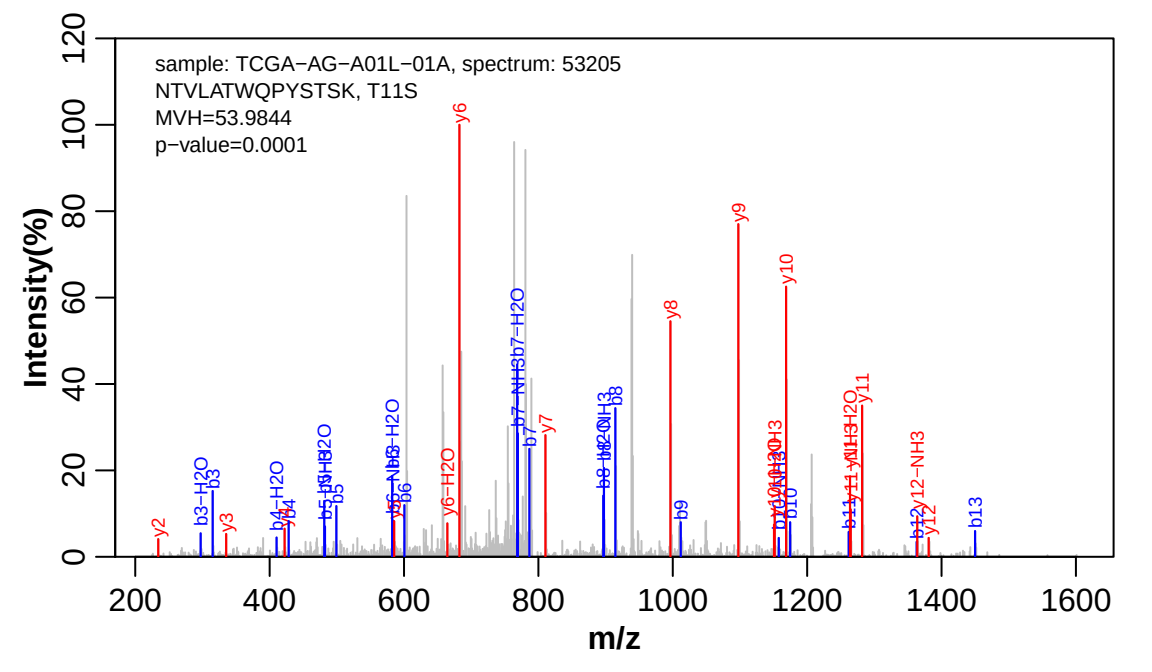

sample: TCGA−AG−A01L−01A, spectrum: 83958
LQQQHSEQPPLQPSPVTTR, M17T
MVH=35.5196
p−value=0.0001
Intensity(%)
m/z
y7++
b9++
b10++−NH3
y12++−H2O
b5
b12++−NH3
y13++−H2O
y14++−H2O
y7
b14++
y8
y17++
y9−NH3
y9−H2O
b8
y10
b12

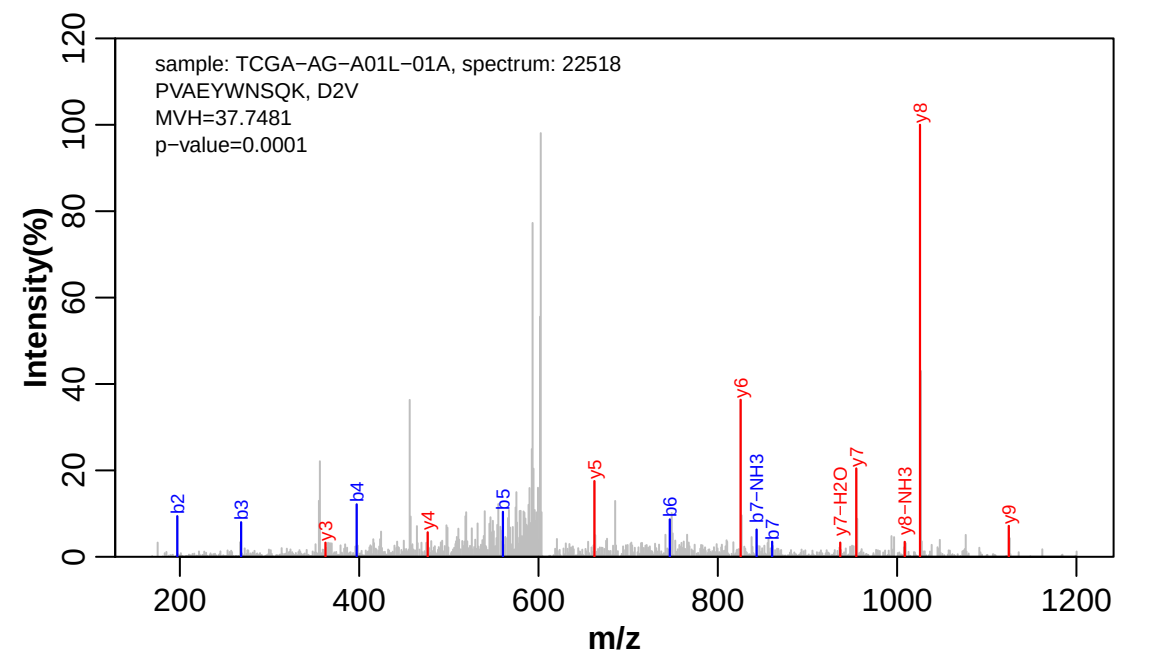

sample: TCGA−AG−A01L−01A, spectrum: 55032
LYDALDLSLLER, V7I
MVH=72.7211
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y5
y10
y8
y6
b7
b6
b5
b5−H2O
y4
b4
y3
b3
b2
y2
b7−H2O
b9−H2O
b10−H2O
b10
b11
y9
b8

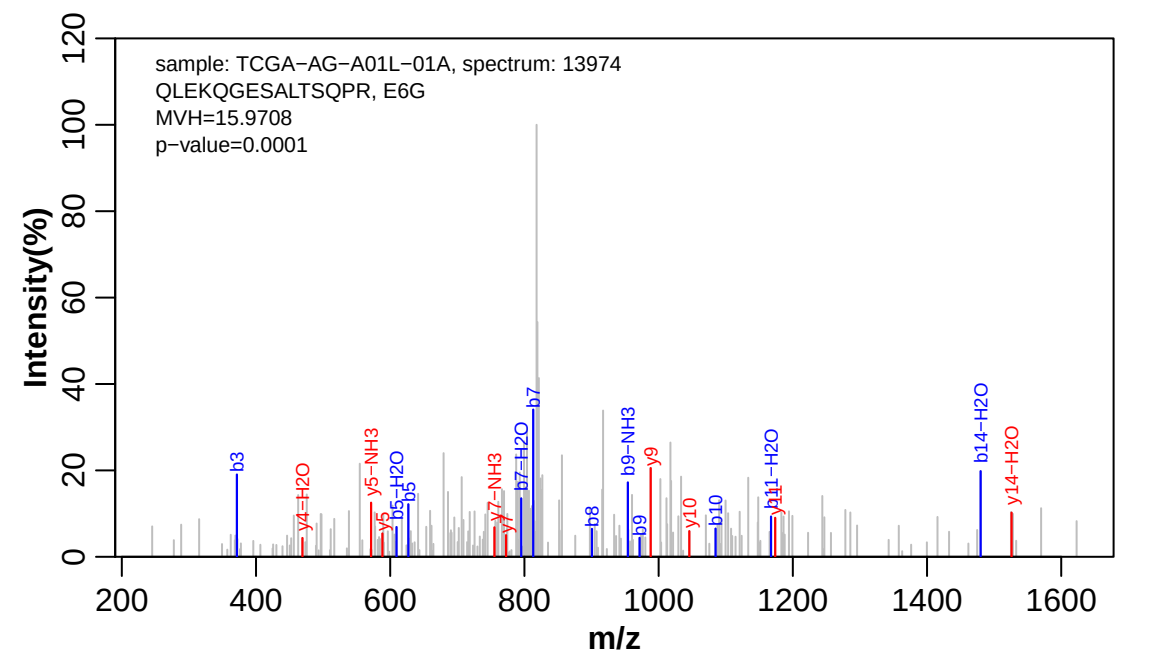

sample: TCGA−AG−A01L−01A, spectrum: 9471
MQYAPNTQVELLPQGR, H16R
MVH=68.1972
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y12
y13
y14
b3
b4
b11
b12

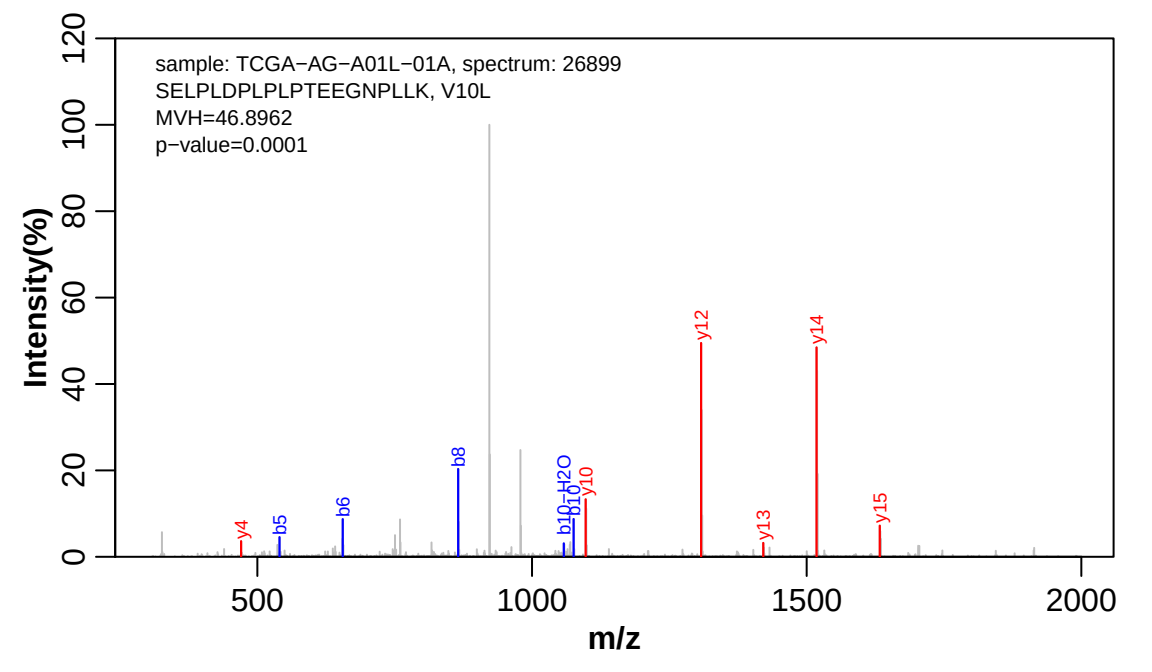

sample: TCGA−AG−A01L−01A, spectrum: 22444
MVAVGLCR, H8R
MVH=42.9535
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y2
b4
y4
b6
y5
y6
y7

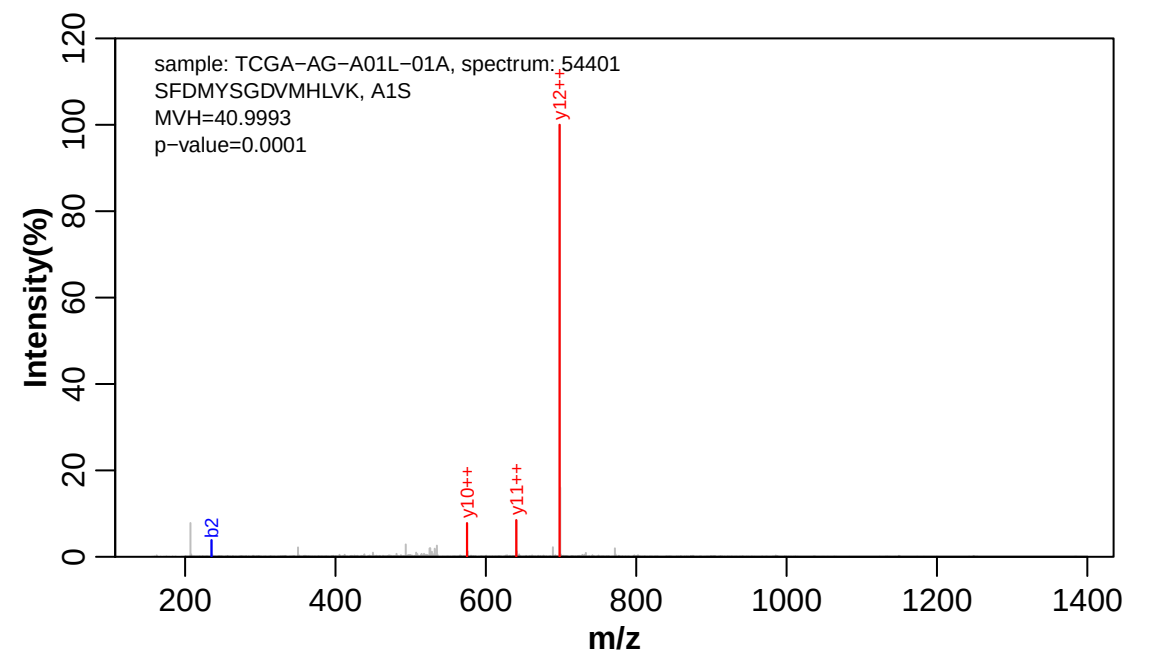

sample: TCGA−AG−A01L−01A, spectrum: 57824
NTNSVPETAPAALPETR, K17R
MVH=38.9089
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b5−H2O
b5
y4
y5
b8−NH3
y8
y12
b13−NH3
b13

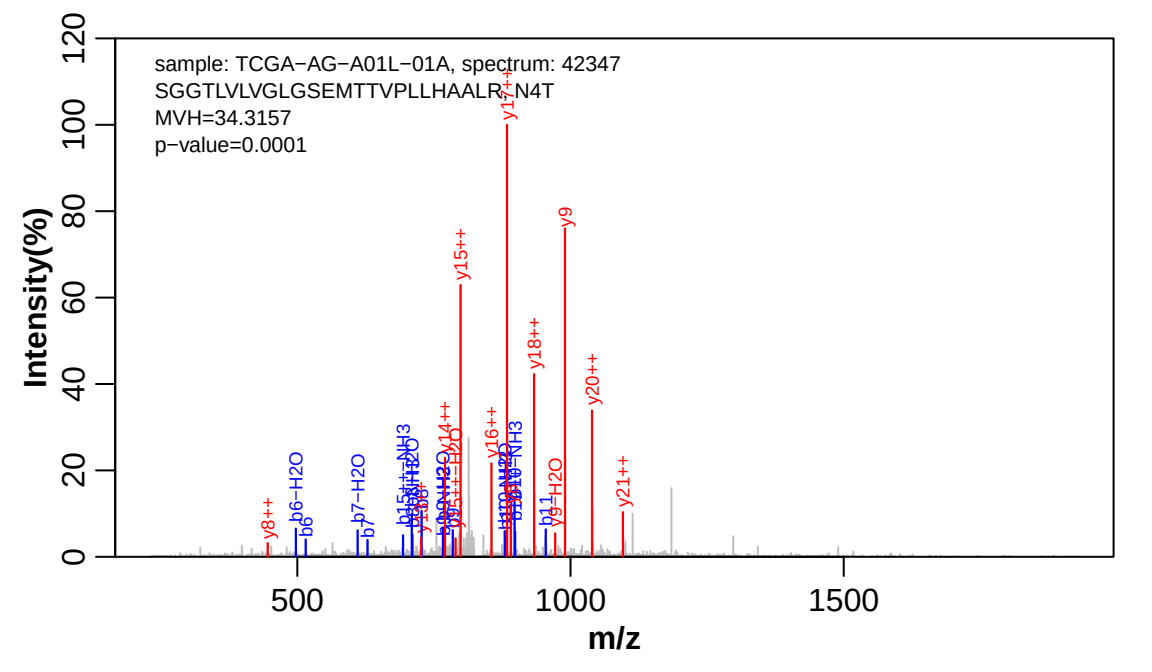

sample: TCGA−AG−A01L−01A, spectrum: 53205
NTVLATWQPYSTSK, T11S
MVH=53.9844
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
y6−H2O
b7−NH3
b7−H2O
b7
y7
b8−H2O−NH3
b8
b9
y8
y9
y10
y11
b12−NH3
y12
b13

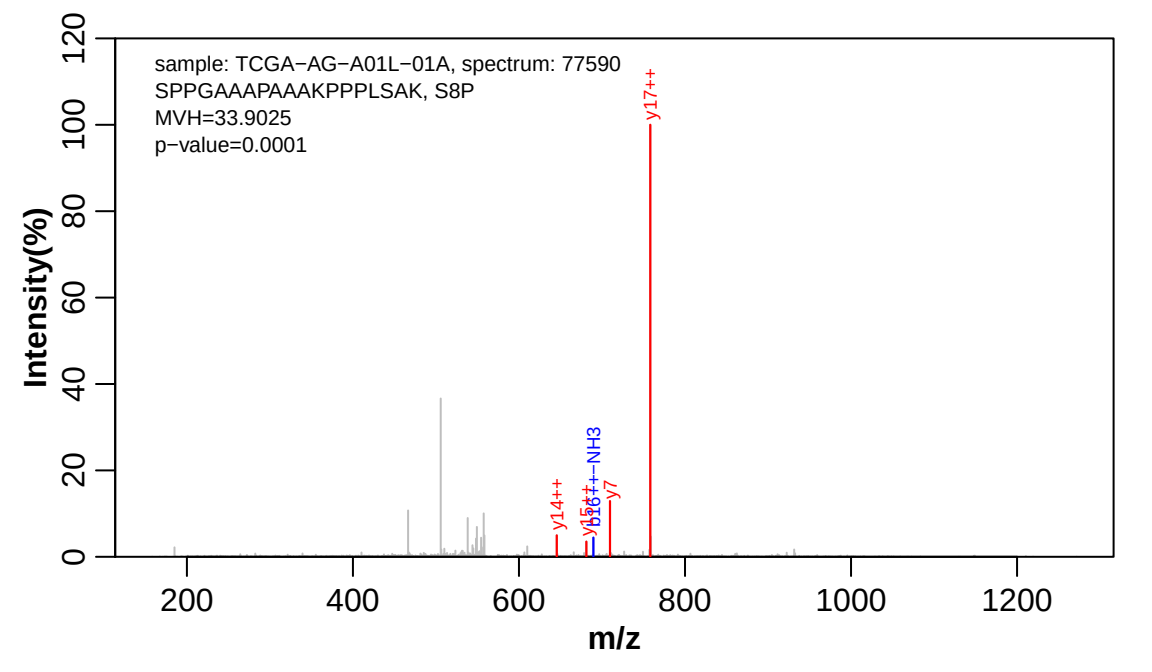

sample: TCGA−AG−A01L−01A, spectrum: 22518
PVAEYWNSQK, D2V
MVH=37.7481
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
b7−NH3
b7
y7−H2O
y7
y8−NH3
y8
y9

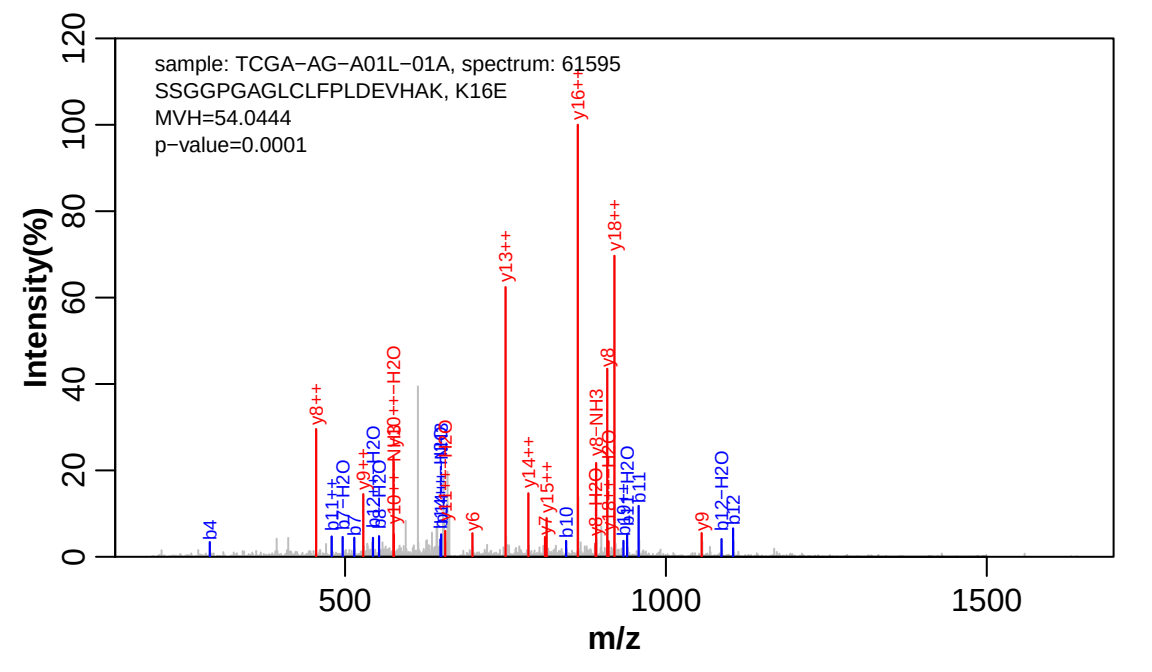

sample: TCGA−AG−A01L−01A, spectrum: 13974
QLEKQGESALTSQPR, E6G
MVH=15.9708
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y4−H2O
y5−NH3
y5
b5−H2O
b5
y7−NH3
y7
b7−H2O
b7
b8
b9−NH3
b9
y9
y10
b10
y11−H2O
b14−H2O
y14−H2O

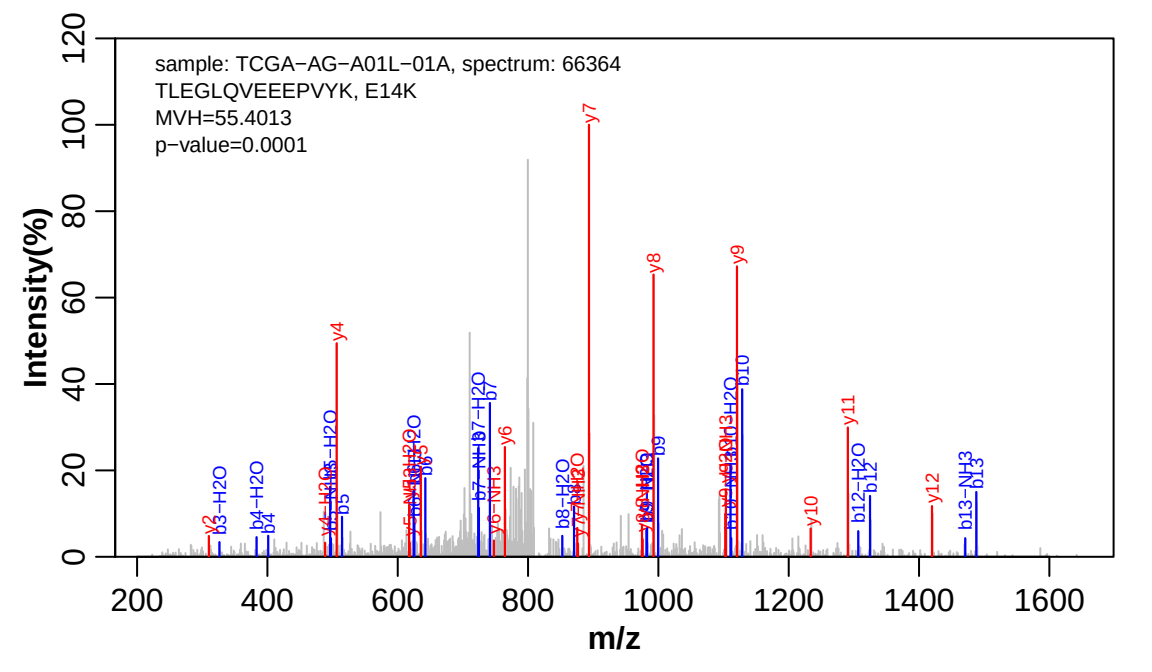

sample: TCGA−AG−A01L−01A, spectrum: 26899
SELPLDPLPLPTEEGNPLLK, V10L
MVH=46.8962
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6
b8
b10−H2O
b10
y10
y12
y13
y14
y15

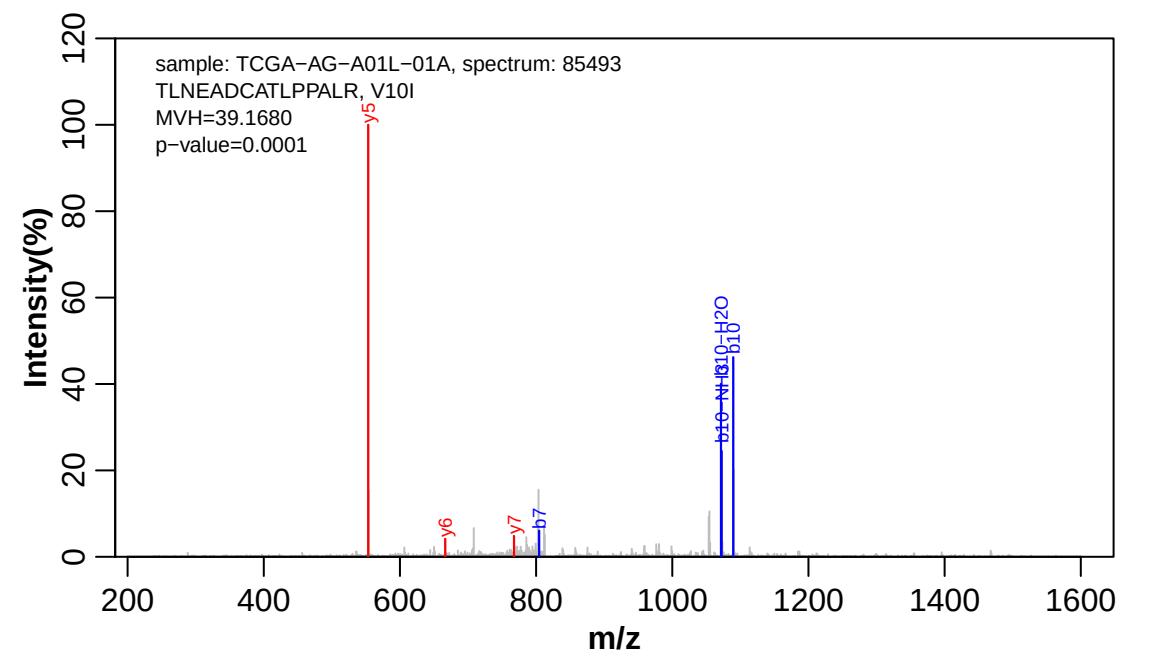

sample: TCGA−AG−A01L−01A, spectrum: 54401
SFDMYSGDVMHLVK, A1S
MVH=40.9993
p−value=0.0001
y12++
y10++
y11++
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

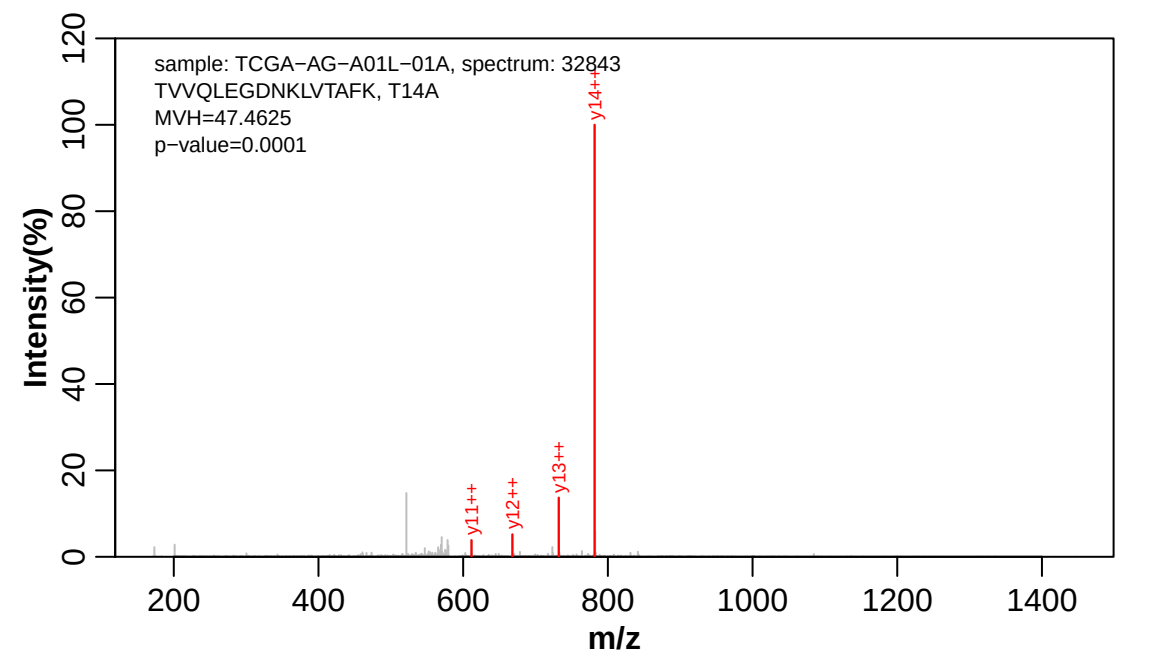

sample: TCGA−AG−A01L−01A, spectrum: 42347
SGGTLVLVGLGSEMTTVPLLHAALR_N4T
MVH=34.3157
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y9
y15++
y18++
y20++
y16++
y14++
y21++
y8++
b6−H2O
b7−H2O
y9−H2O
b11
b15++−NH3

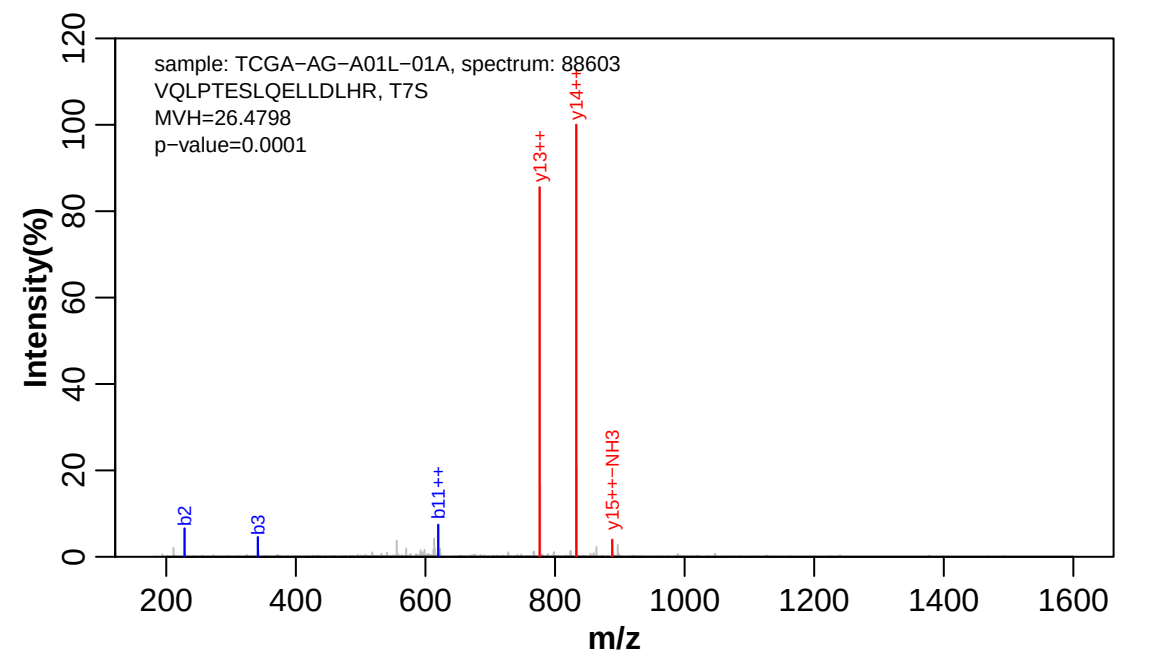

sample: TCGA−AG−A01L−01A, spectrum: 77590
SPPGAAAPAAAKPPPLSAK, S8P
MVH=33.9025
p−value=0.0001
y17++
y14++
y16++−NH3
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

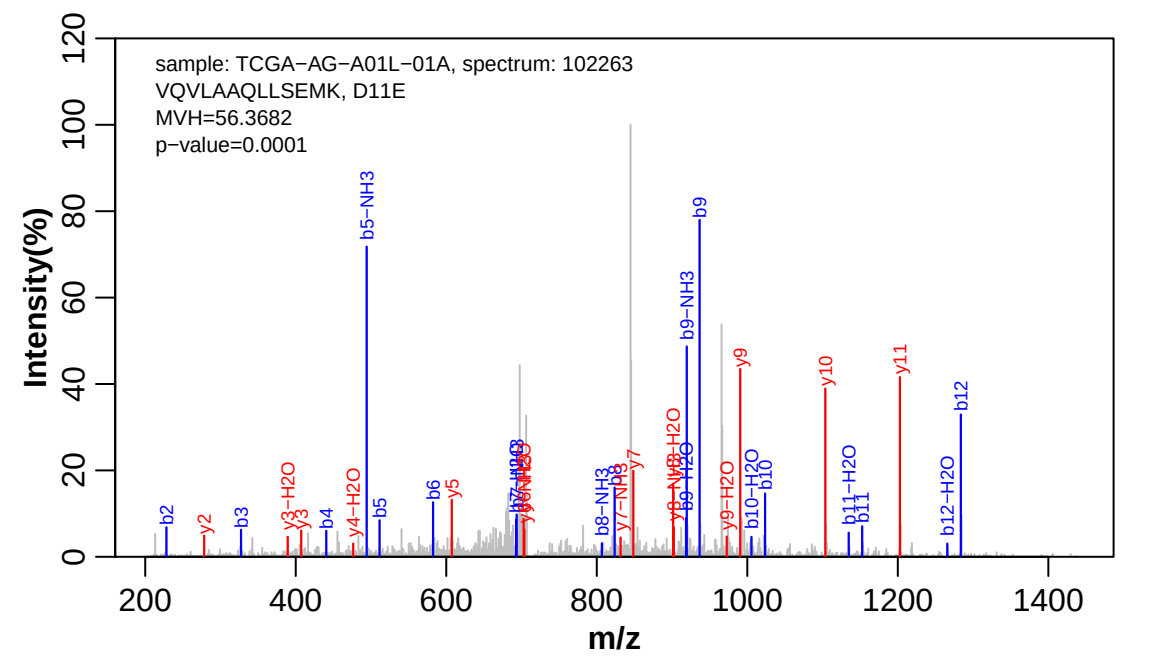

sample: TCGA−AG−A01L−01A, spectrum: 61595
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=54.0444
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y8++
b11++
b7−H2O
b7
y9++
b8−H2O
b12−H2O
y10++−NH3
y10++−H2O
y6
y13++
y14++
y7
y15++
b10
y8−NH3
y8
y18++
y16++
b11
y9
b12−H2O
b12

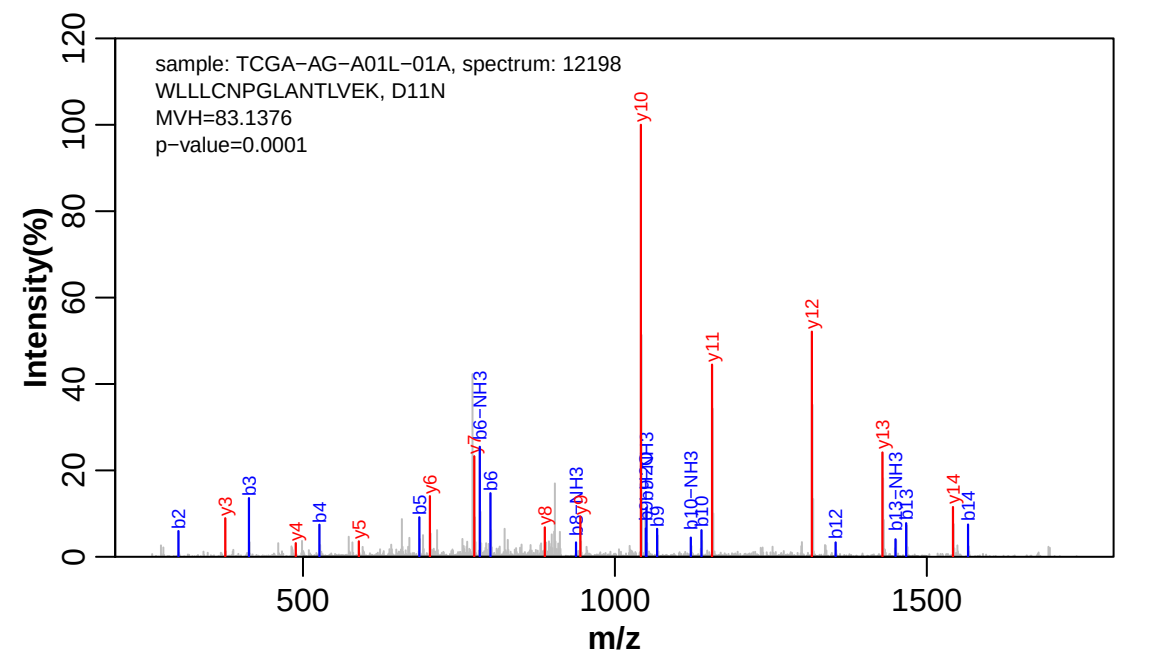

sample: TCGA−AG−A01L−01A, spectrum: 66364
TLEGLQVEEEPVYK, E14K
MVH=55.4013
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y8
y9
y4
y11
y10
y12
y6
b7
b10
b12
b13
b9
b5
b4
b3
y2
b7−H2O
b4−H2O
b3−H2O
b12−H2O
b13−NH3
y6−NH3
b8−H2O

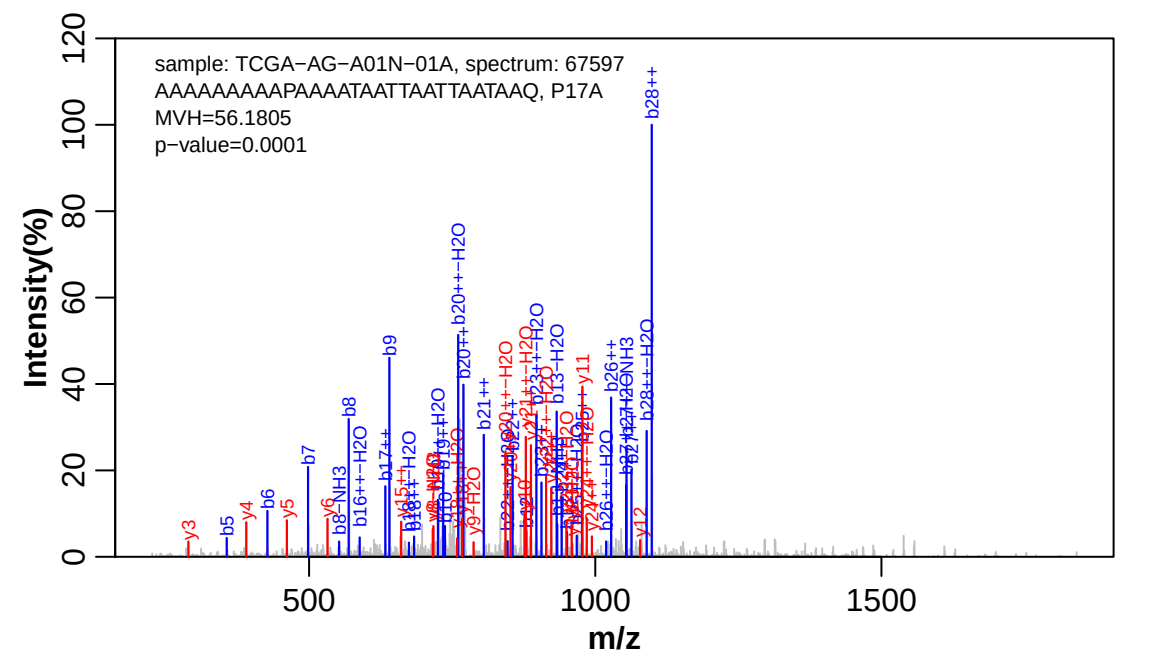

sample: TCGA−AG−A01L−01A, spectrum: 85493
TLNEADCATLPPALR, V10I
MVH=39.1680
p−value=0.0001
y5
y6
y7
b7
b10−NH3
b10−H2O
b10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

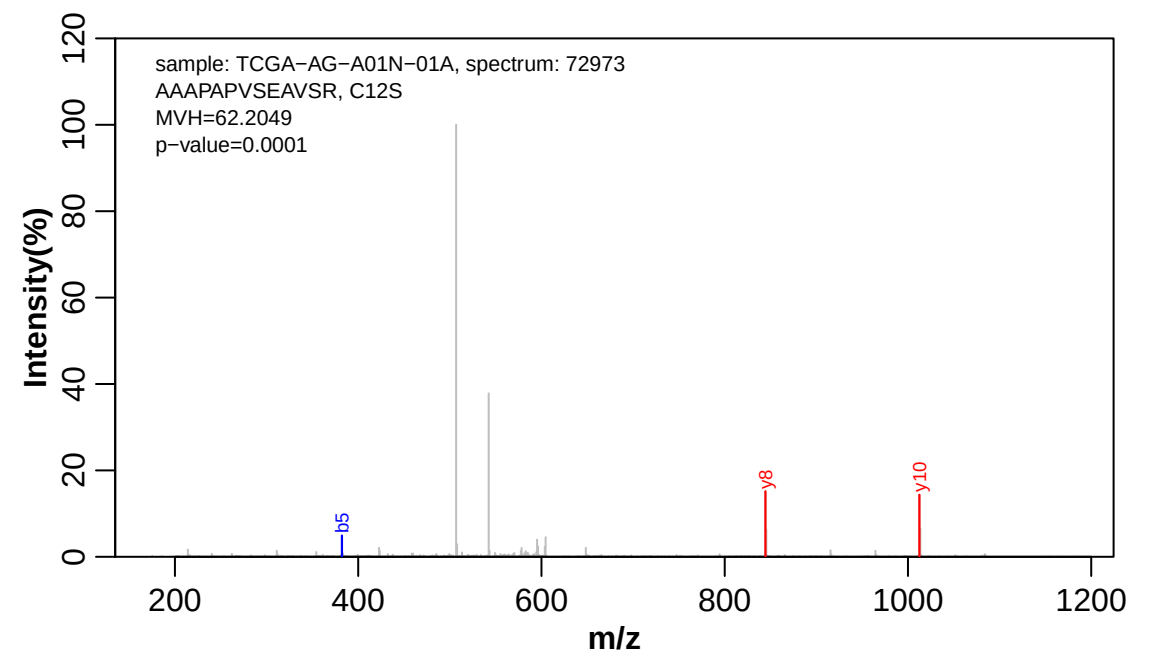

sample: TCGA−AG−A01L−01A, spectrum: 32843
TVVQLEGDNKLVTAFK, T14A
MVH=47.4625
p−value=0.0001
y14++
y13++
y12++
y11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

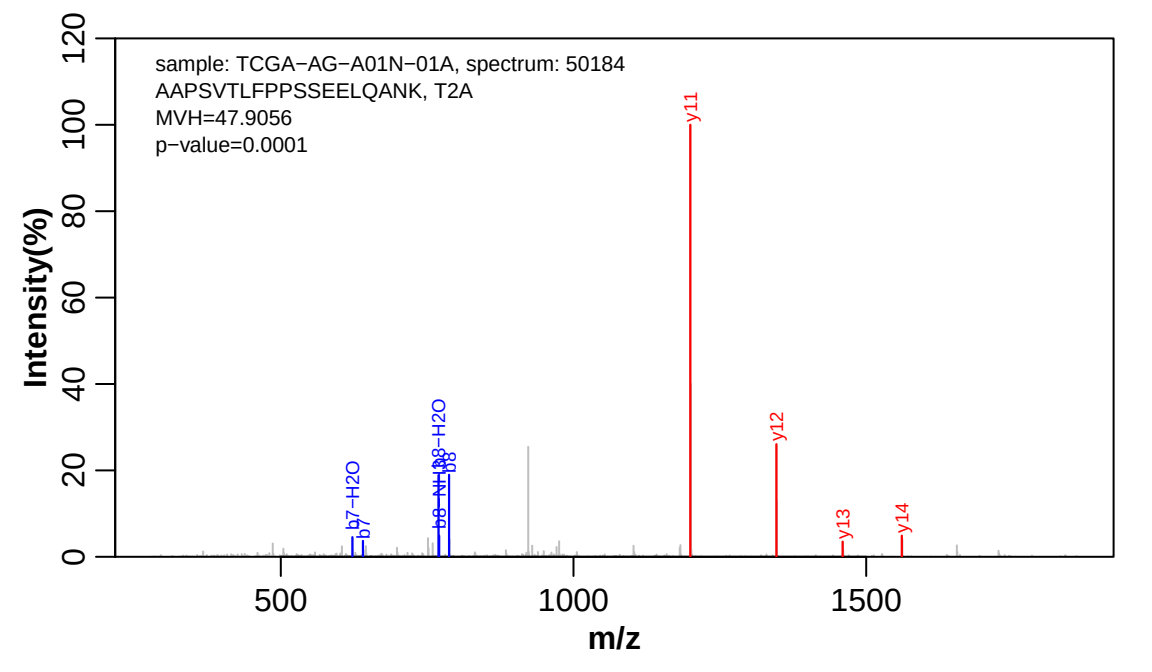

sample: TCGA−AG−A01L−01A, spectrum: 88603
VQLPTESLQELLDLHR, T7S
MVH=26.4798
p−value=0.0001
y14++
y13++
y15++−NH3
b11++
b2
b3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

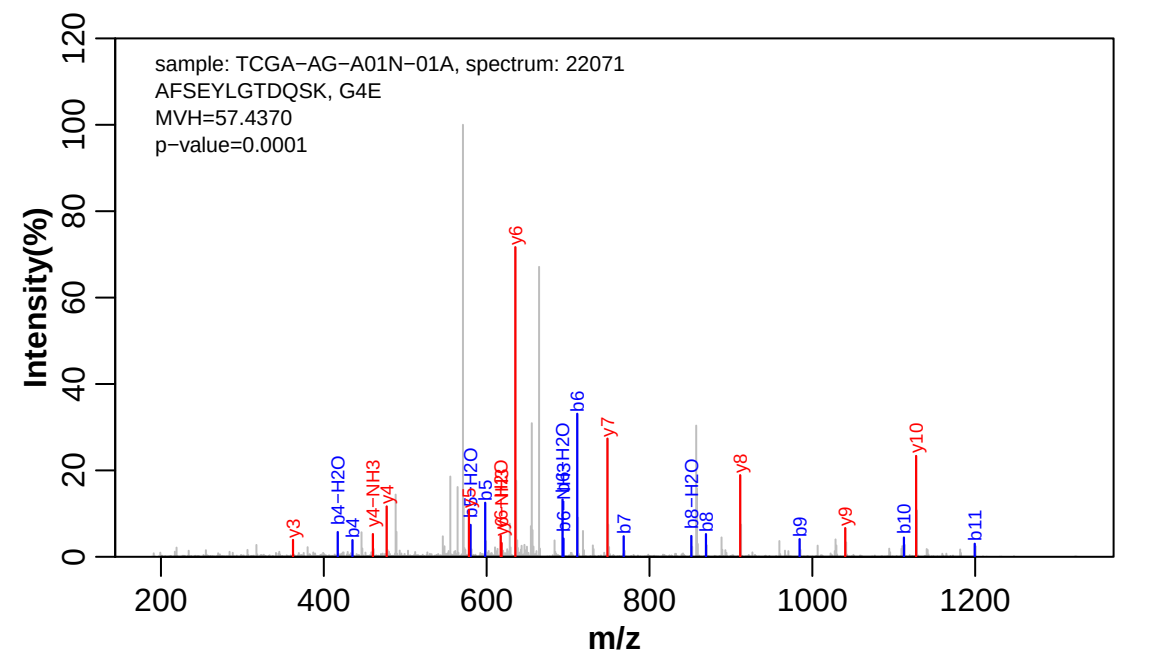

sample: TCGA−AG−A01L−01A, spectrum: 102263
VQVLAAQLLSEMK, D11E
MVH=56.3682
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4
y4−H2O
b5
b5−NH3
b6
y5
b7−H2O
b7−NH3
b8−NH3
y7−NH3
y7
y8−NH3−H2O
b8−H2O
b9−NH3
b9
y9−H2O
y9
b10−H2O
b10
y10
b11−H2O
b11
y11
b12−H2O
b12

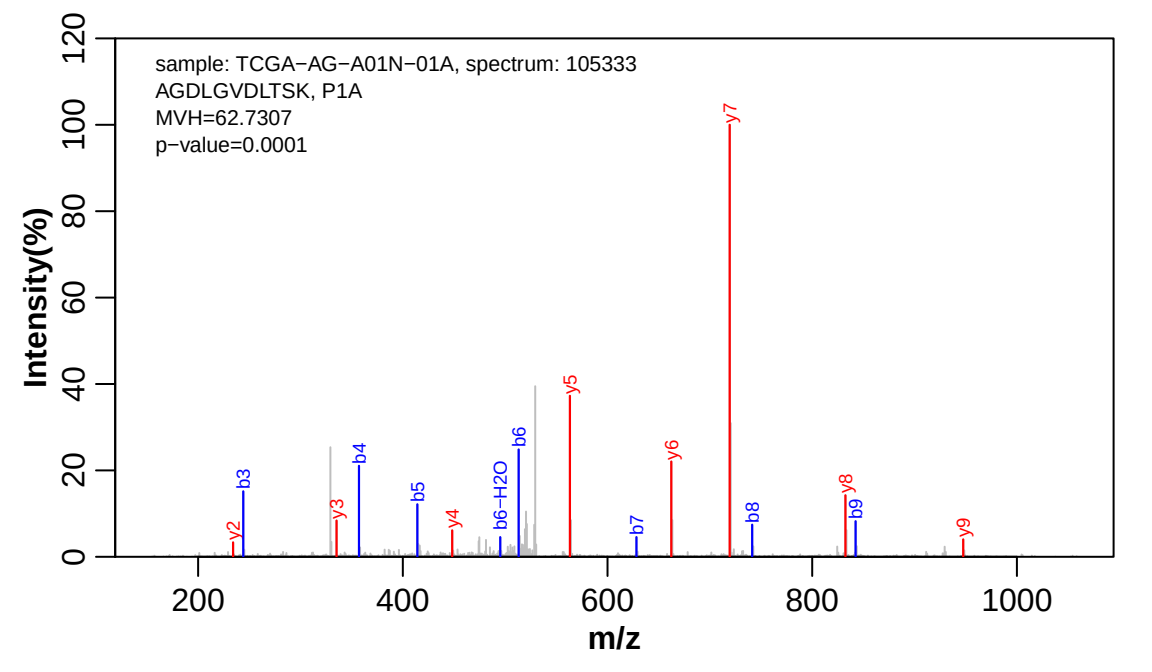

sample: TCGA−AG−A01L−01A, spectrum: 12198
WLLLCNPGLANTLVEK, D11N
MVH=83.1376
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
y4
b4
y5
b5
y6
y7
b6−NH3
b6
y8
b8−NH3
y10
y11
b10−NH3
b10
y12
b12
y13
b13−NH3
b13
y14
b14

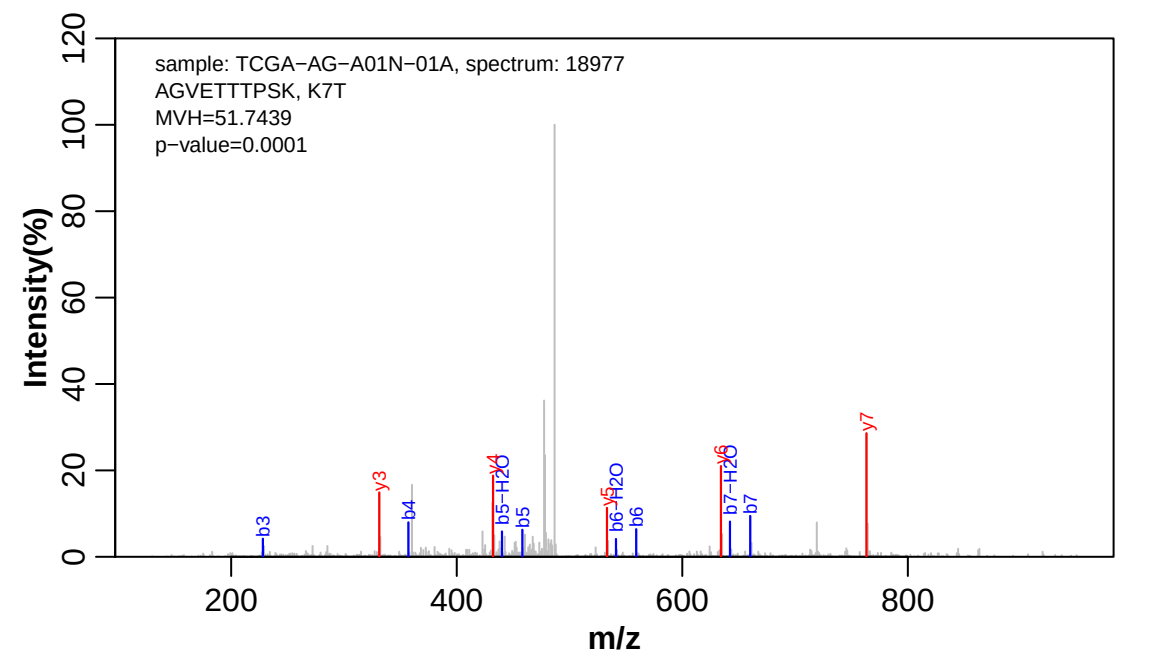

sample: TCGA−AG−A01N−01A, spectrum: 67597
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=56.1805
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b28++
b20++−H2O
b20++
b9
b8
b7
b6
b5
y5
y4
y3
y6
b8−NH3
b16++−H2O
b17++
b17++−H2O
y15++
b21++
y9−H2O
b23++−H2O
b13+−H2O
y11
b26++
b26++−H2O
b27++−NH3
y12
b28++−H2O

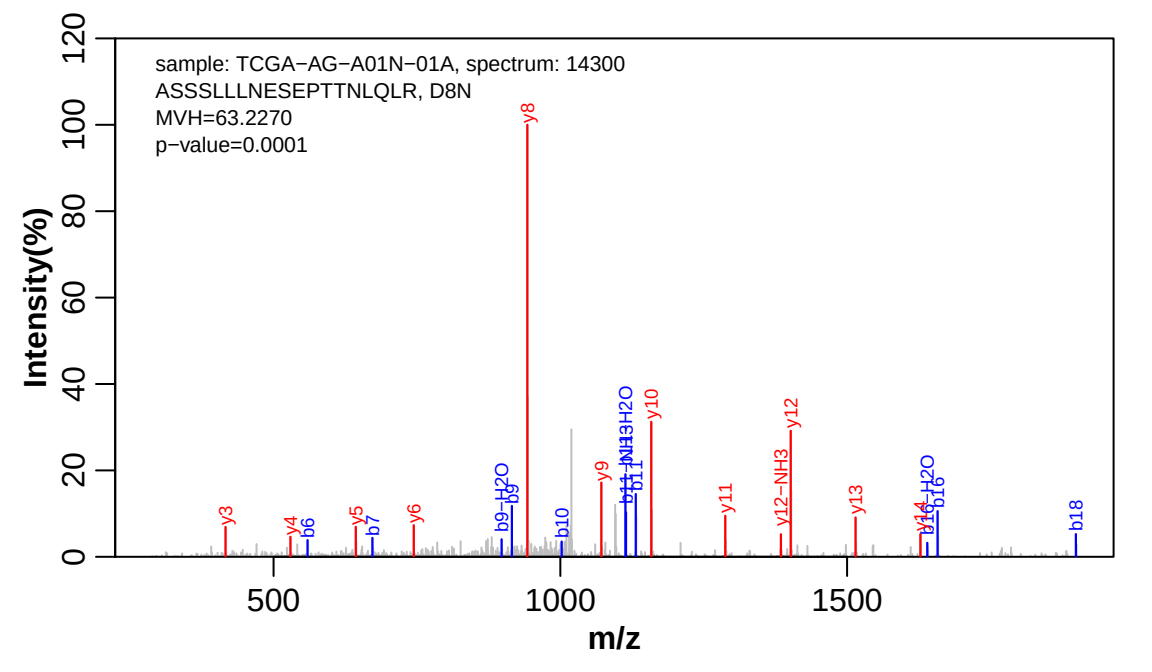

sample: TCGA−AG−A01N−01A, spectrum: 72973
AAAPAPVSEAVSR, C12S
MVH=62.2049
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

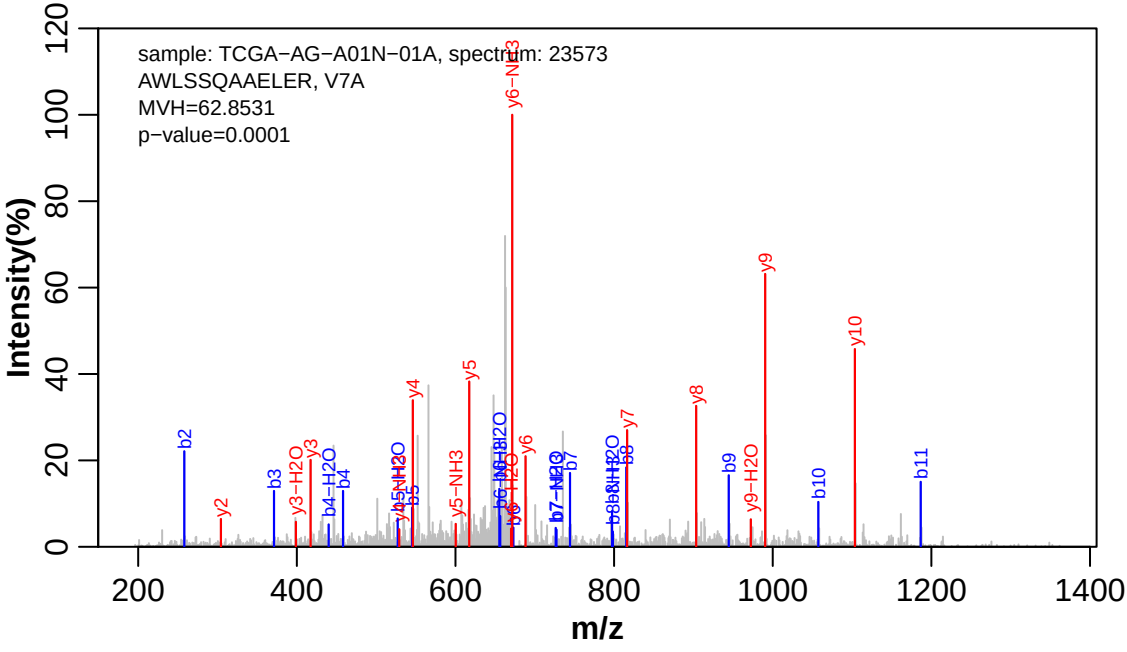

sample: TCGA−AG−A01N−01A, spectrum: 50184
AAPSVTLFPPSSEELQANK, T2A
MVH=47.9056
p−value=0.0001
y11
y12
y13
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

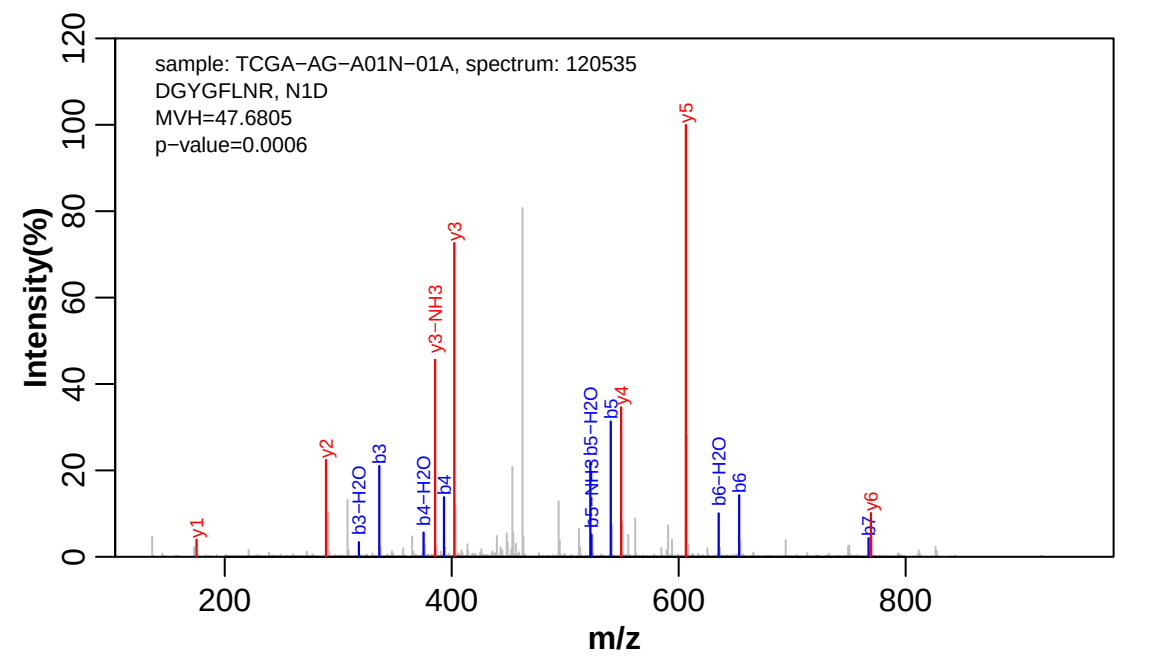

sample: TCGA−AG−A01N−01A, spectrum: 22071
AFSEYLGTDQSK, G4E
MVH=57.4370
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y6−NH3
y6
y6−H2O
b6−NH3
b6−H2O
b6
y7
b7
b8−H2O
b8
y8
b9
y9
b10
y10
b11

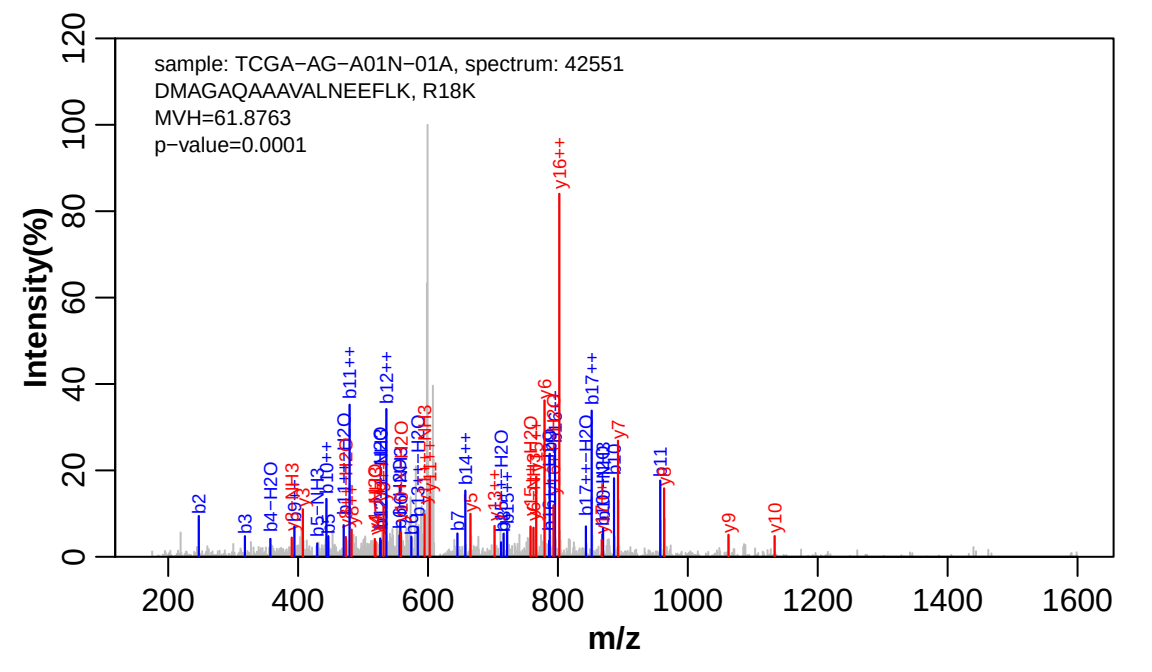

sample: TCGA−AG−A01N−01A, spectrum: 105333
AGDLGVDLTSK, P1A
MVH=62.7307
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
b7
y6
y7
b8
y8
b9
y9

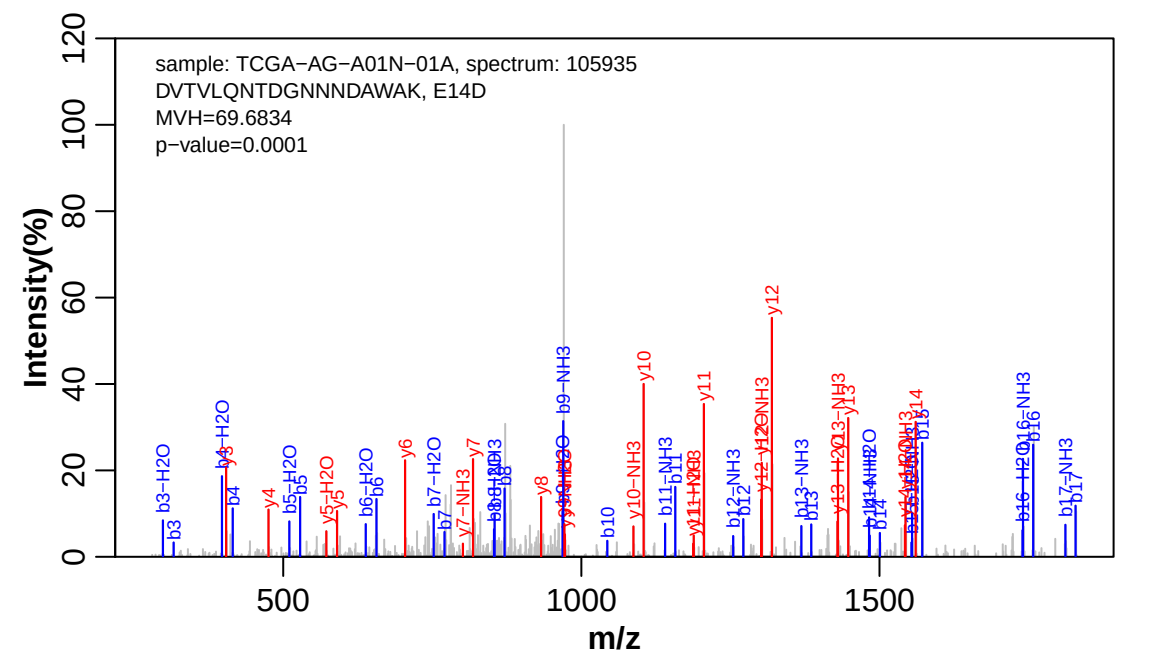

sample: TCGA−AG−A01N−01A, spectrum: 18977
AGVETTTPSK, K7T
MVH=51.7439
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
b5−H2O
y4
b5
b6−H2O
y5
b6
b7−H2O
y6
b7
y7

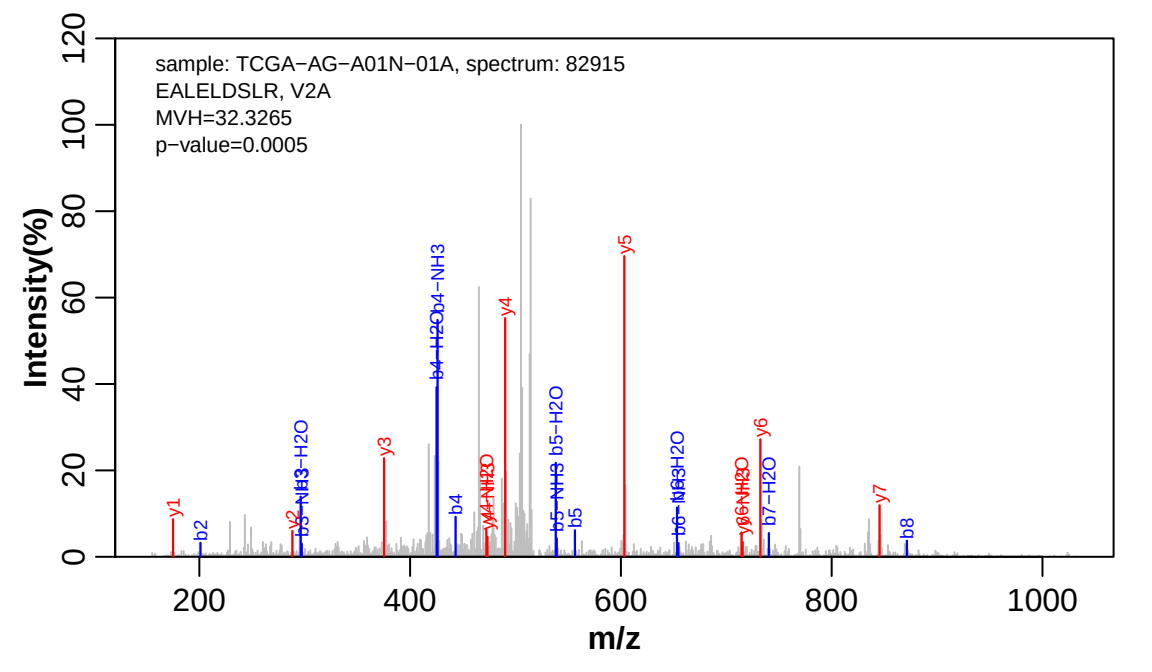

sample: TCGA−AG−A01N−01A, spectrum: 14300
ASSSLLLNESEPTTNLQLR, D8N
MVH=63.2270
p−value=0.0001
Intensity(%)
m/z
y8
y3
y4
b6
y5
b7
y6
b9−H2O
b9
b10
y9
y10
y11
y12−NH3
y12
y13
b16−H2O
b16
b18

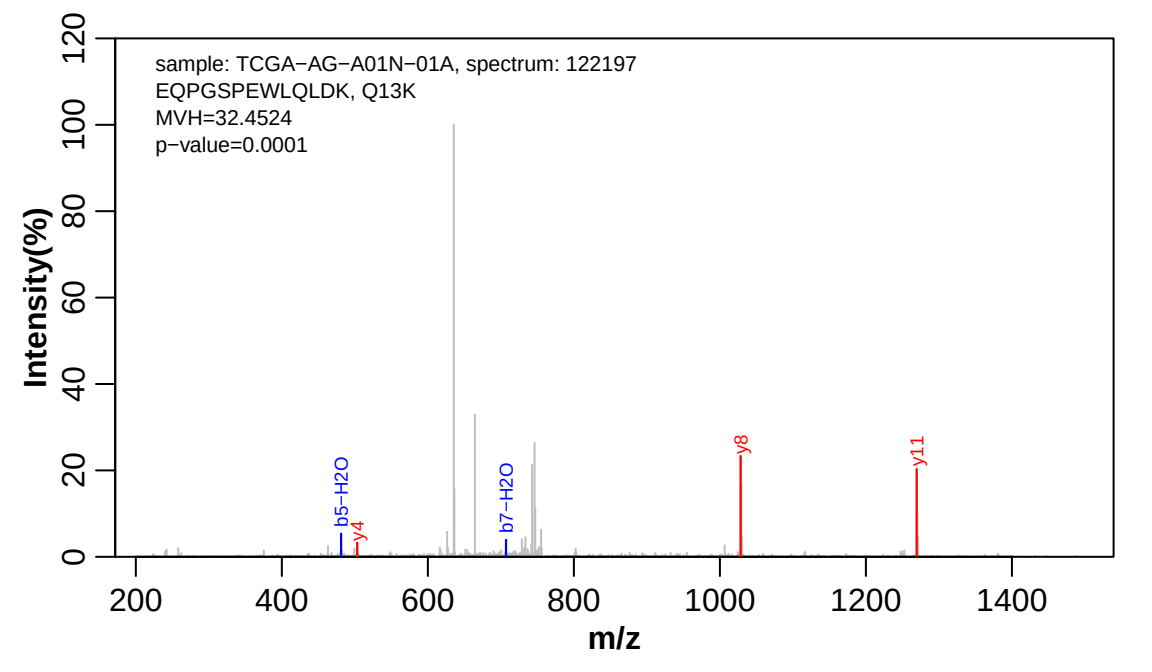

sample: TCGA−AG−A01N−01A, spectrum: 23573
AWLSSQAAELER, V7A
MVH=62.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3−H2O
y3
b4−H2O
b4
b5
y4
y5
y5−NH3
y6−NH3
y6
b7
y7
b8
y8
b9
y9
y9−H2O
b10
y10
b11

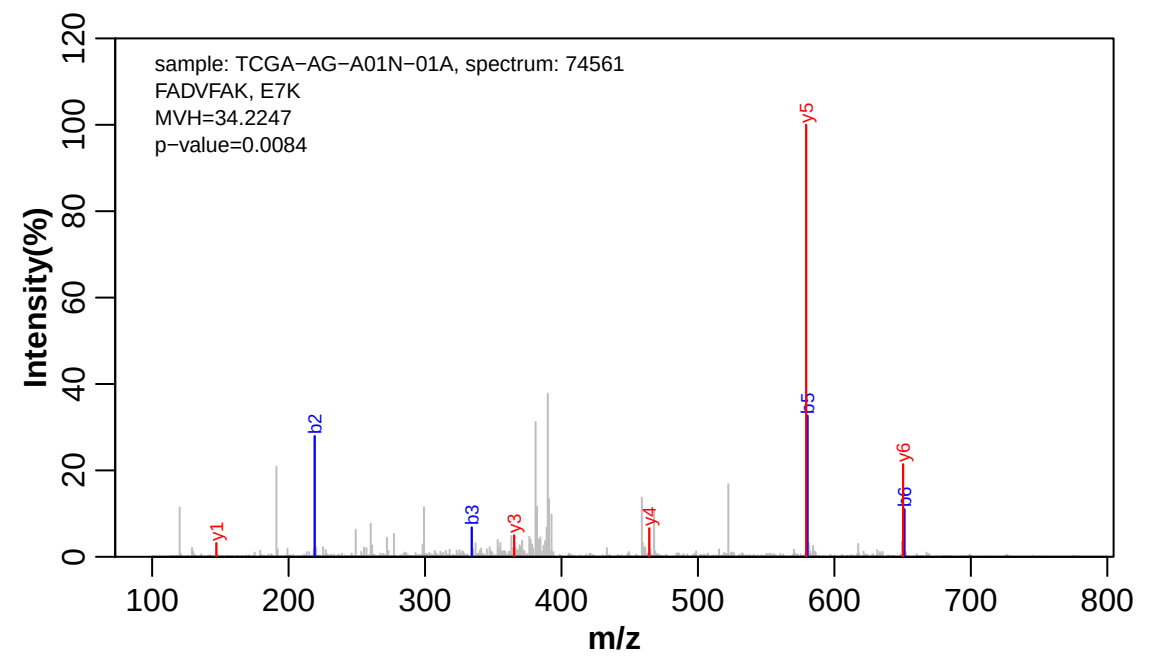

sample: TCGA−AG−A01N−01A, spectrum: 120535
DGYGFLNR, N1D
MVH=47.6805
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

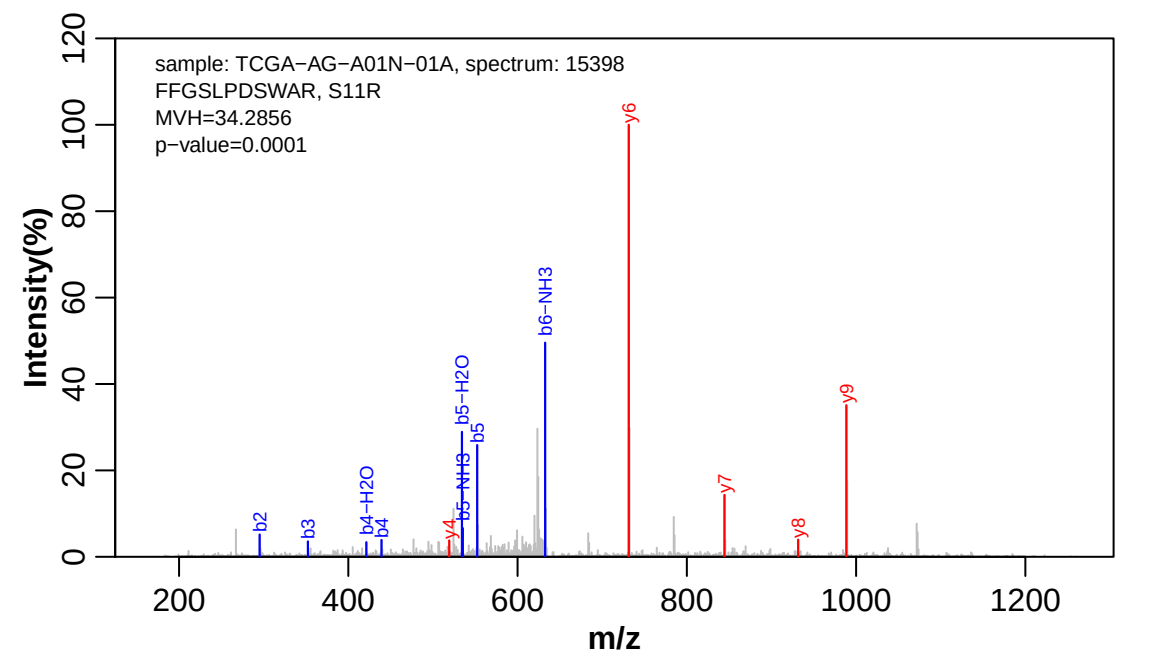

sample: TCGA−AG−A01N−01A, spectrum: 42551
DMAGAQAAAVALNEEFLK, R18K
MVH=61.8763
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y16++
b2
b3
b4−H2O
b5−NH3
b10++
b11++
b12++
b14++
b17++
b17++−H2O
y5
y7
y9
y10
y11

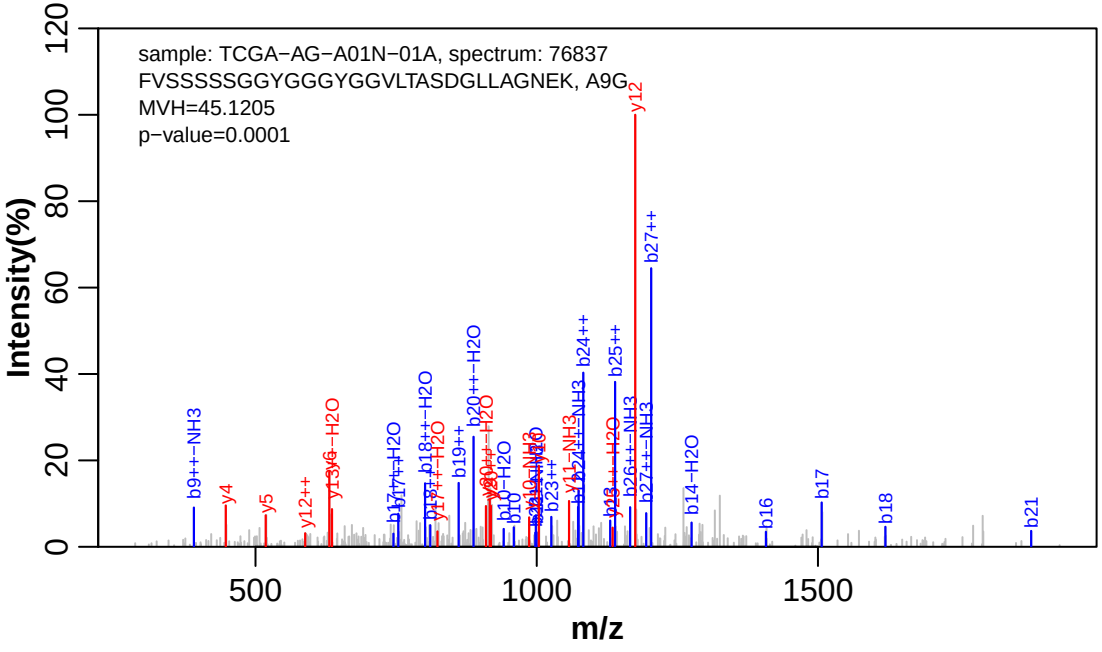

sample: TCGA−AG−A01N−01A, spectrum: 105935
DVTVLQNTDGNNNDAWAK, E14D
MVH=69.6834
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
b3
b4−H2O
b4
y3
y4
b5−H2O
b5
y5−H2O
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−NH3
y7
b8
y8
b9−NH3
b10
y10−NH3
y10
b11−NH3
b11
y11
b12−NH3
b12
y12−NH3
y12
b13−NH3
b13
y13−NH3
y13
b14
b16−H2O
b16−NH3
b16
b17−NH3
b17

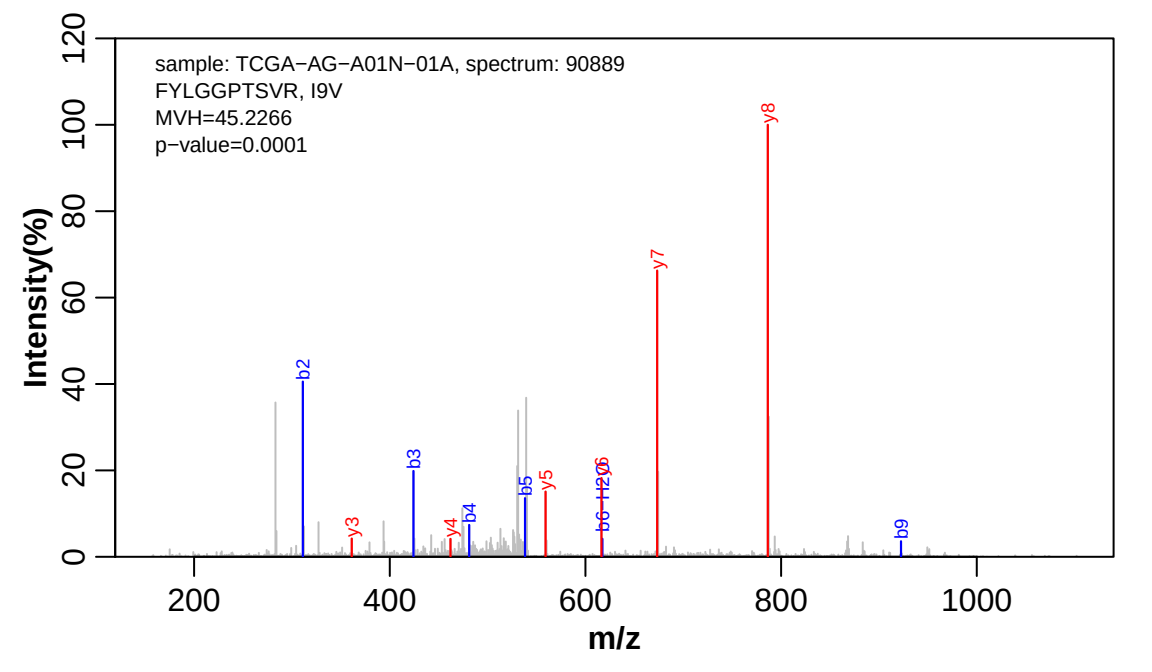

sample: TCGA−AG−A01N−01A, spectrum: 82915
EALELDSLR, V2A
MVH=32.3265
p−value=0.0005
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3−NH3
b3−H2O
y3
b4−NH3
b4−H2O
b4
y4−NH3
y4
b5−NH3
b5−H2O
b5
y5
b6−NH3
b6−H2O
y6−NH3
y6
b7−H2O
y7
b8

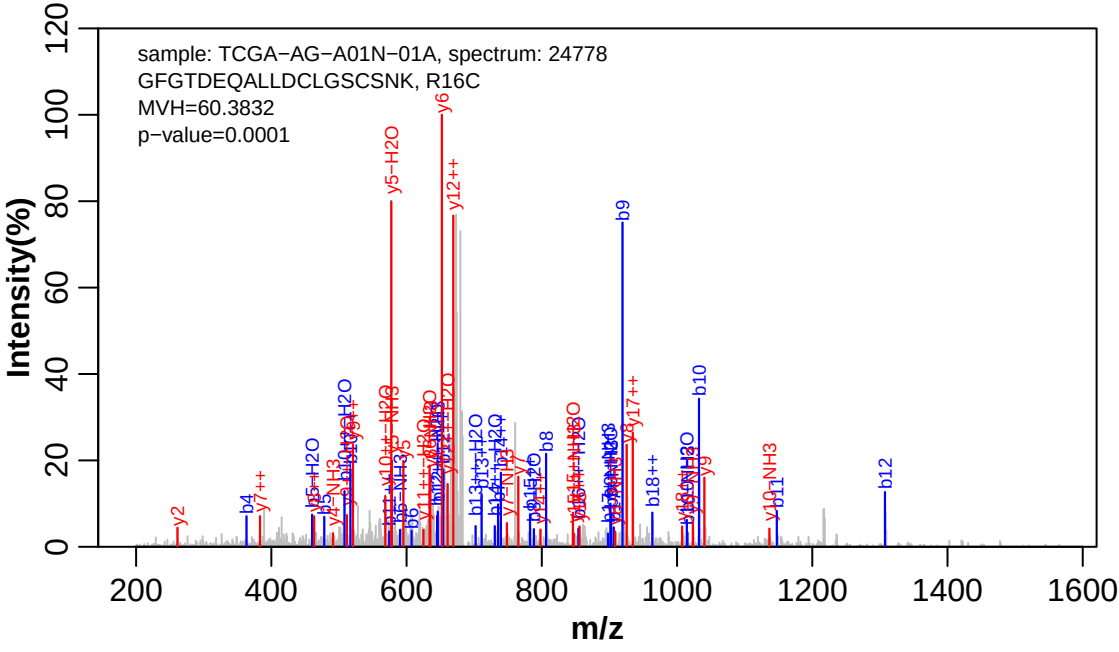

sample: TCGA−AG−A01N−01A, spectrum: 122197
EQPGSPEWLQLDK, Q13K
MVH=32.4524
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
b7−H2O
y8
y11

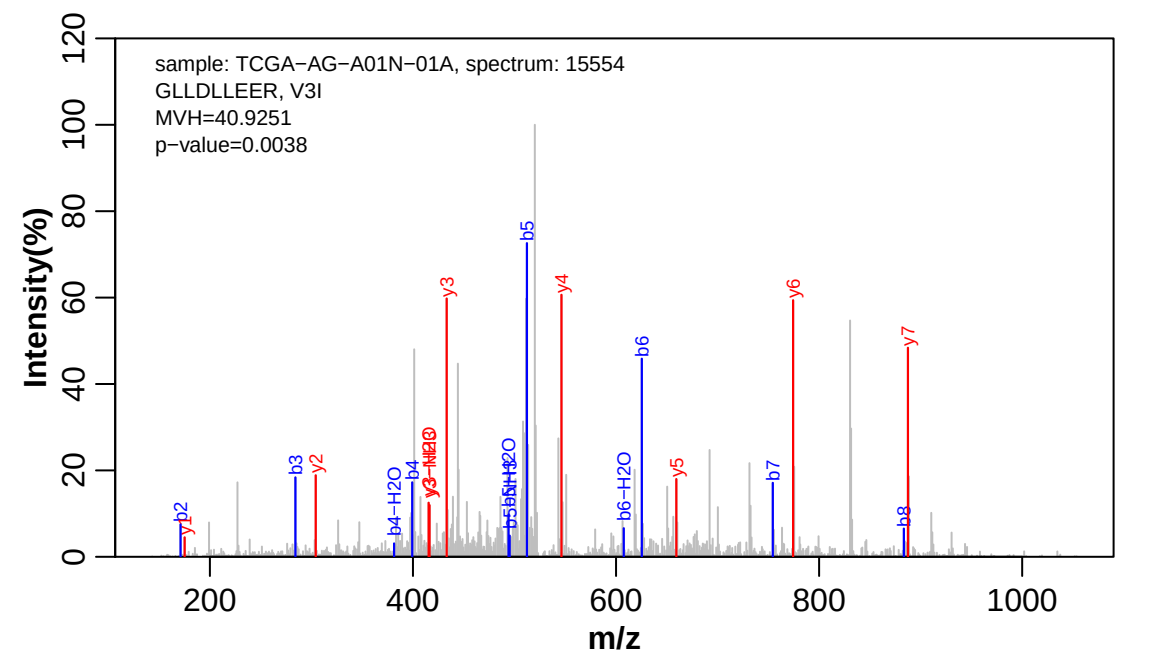

sample: TCGA−AG−A01N−01A, spectrum: 74561
FADVFAK, E7K
MVH=34.2247
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2
b3
y3
y4
y5
b5
y6
b6

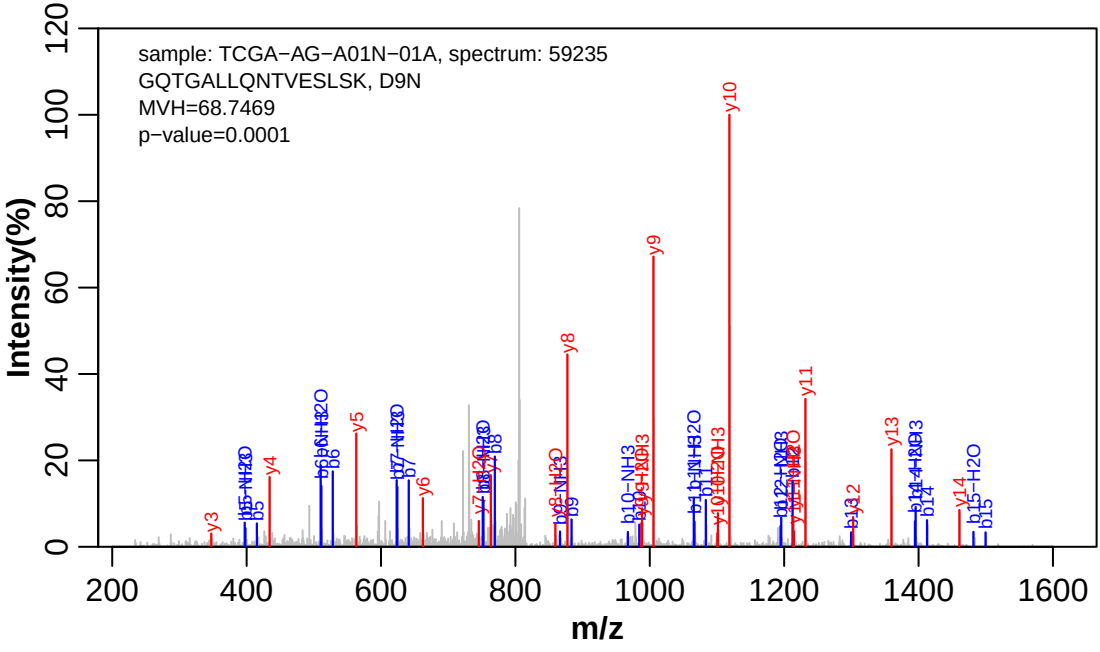

sample: TCGA−AG−A01N−01A, spectrum: 15398
FFGSLPDSWAR, S11R
MVH=34.2856
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
b6−NH3
b5−H2O
b5
b5−NH3
y4
b4
b4−H2O
b3
b2
y7
y8
y9

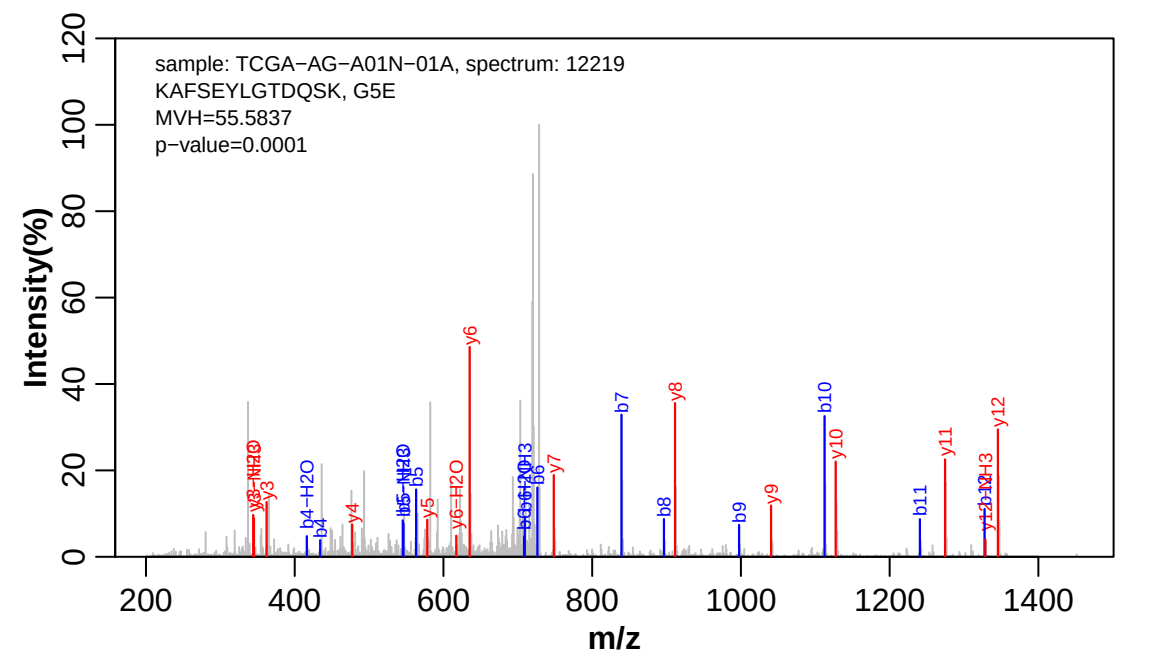

sample: TCGA−AG−A01N−01A, spectrum: 76837
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=45.1205
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
b27++
b24++
b25++
b9++−NH3
y4
y5
y12++
y13y6−H2O
b17++H2O
b18++−H2O
b19++
b20++−H2O
b14−H2O
b16
b17
b18
b21

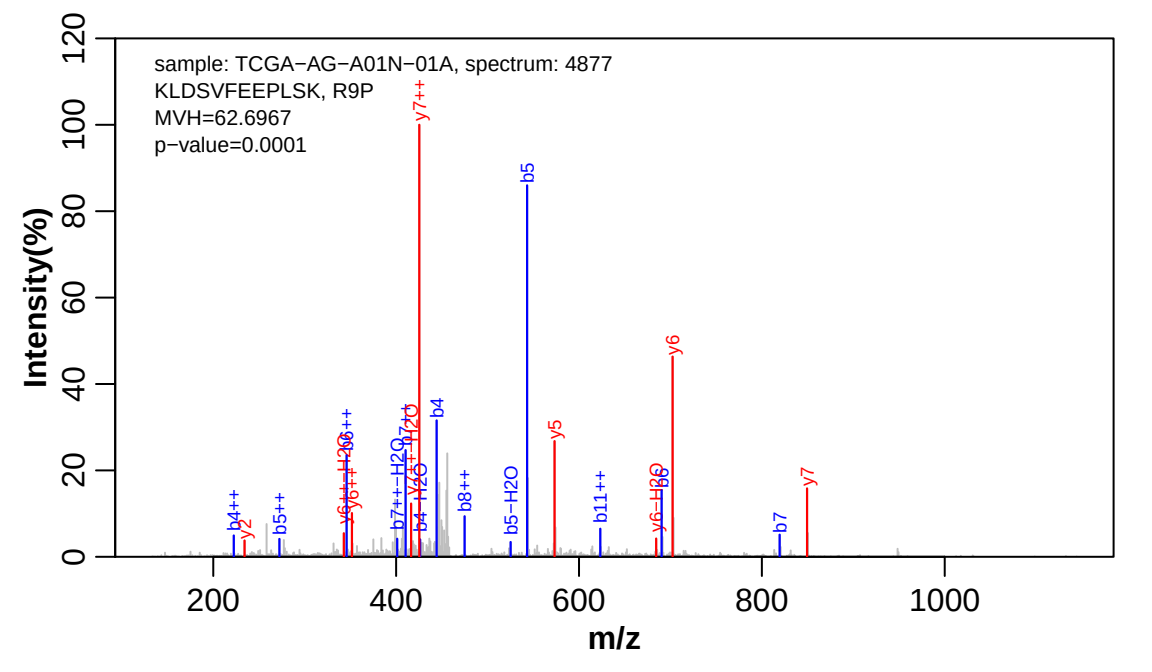

sample: TCGA−AG−A01N−01A, spectrum: 90889
FYLGGPTSVR, I9V
MVH=45.2266
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b3
y4
b4
b5
y5
b6−H2O
y6
y7
y8
b9

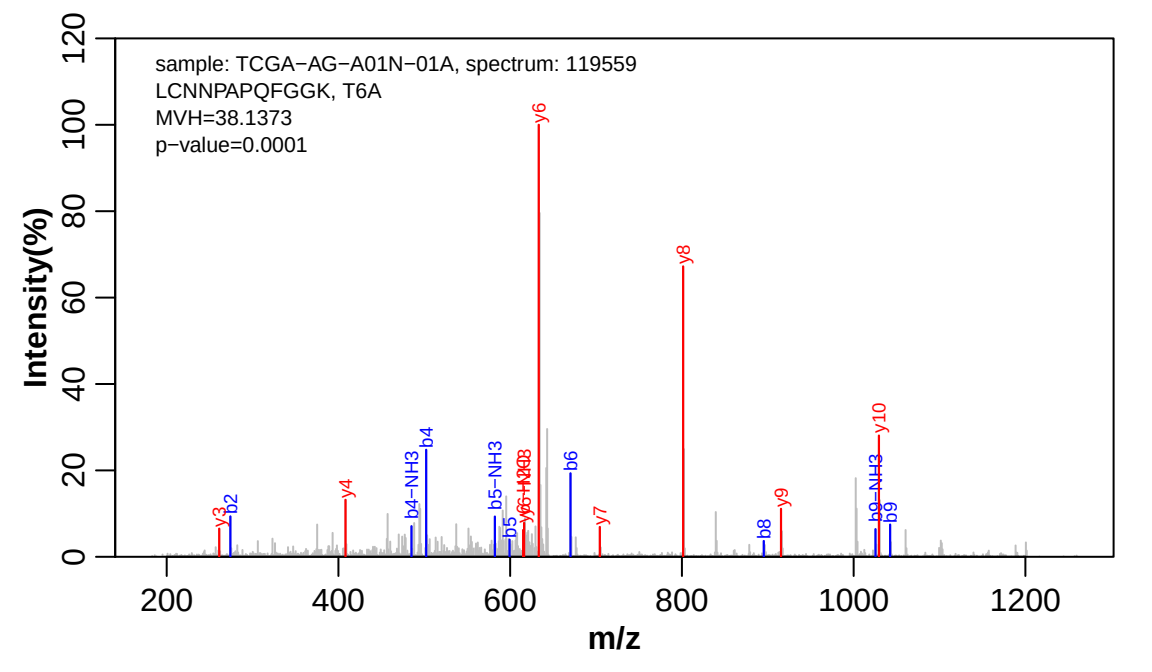

sample: TCGA−AG−A01N−01A, spectrum: 24778
GFGTDEQALLDCLGSCSNK, R16C
MVH=60.3832
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y5−H2O
y12++
b9
b10
b12
y7++
b4
y2
b8
y17++
b18++
y10−NH3
b11
y9

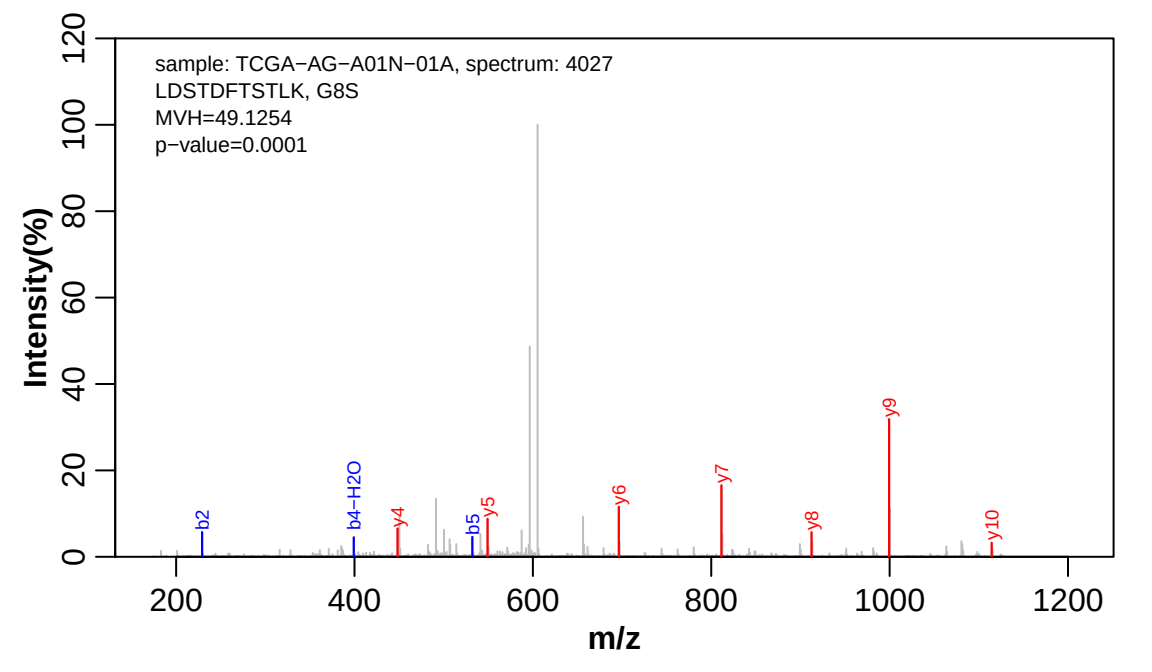

sample: TCGA−AG−A01N−01A, spectrum: 15554
GLLDLLEER, V3I
MVH=40.9251
p−value=0.0038
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b3
y2
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
b6−H2O
b6
y5
b7
y6
b8
y7

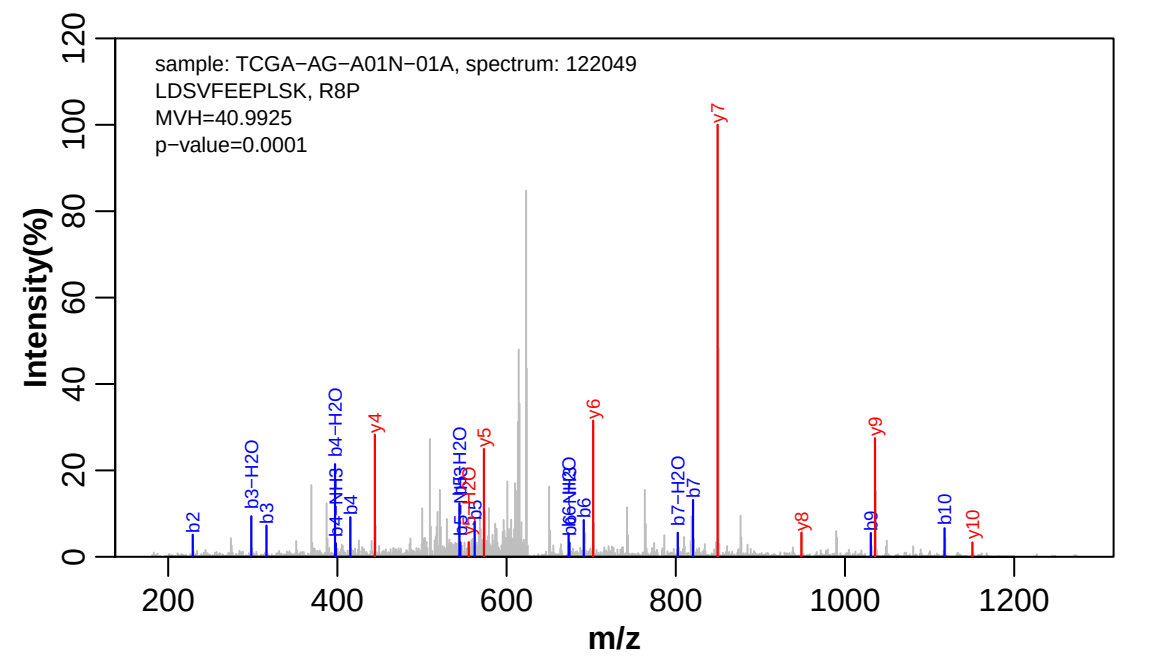

sample: TCGA−AG−A01N−01A, spectrum: 59235
GQTGALLQNTVESLSK, D9N
MVH=68.7469
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y5
y4
y3
y6
b15−H2O
b13
b14

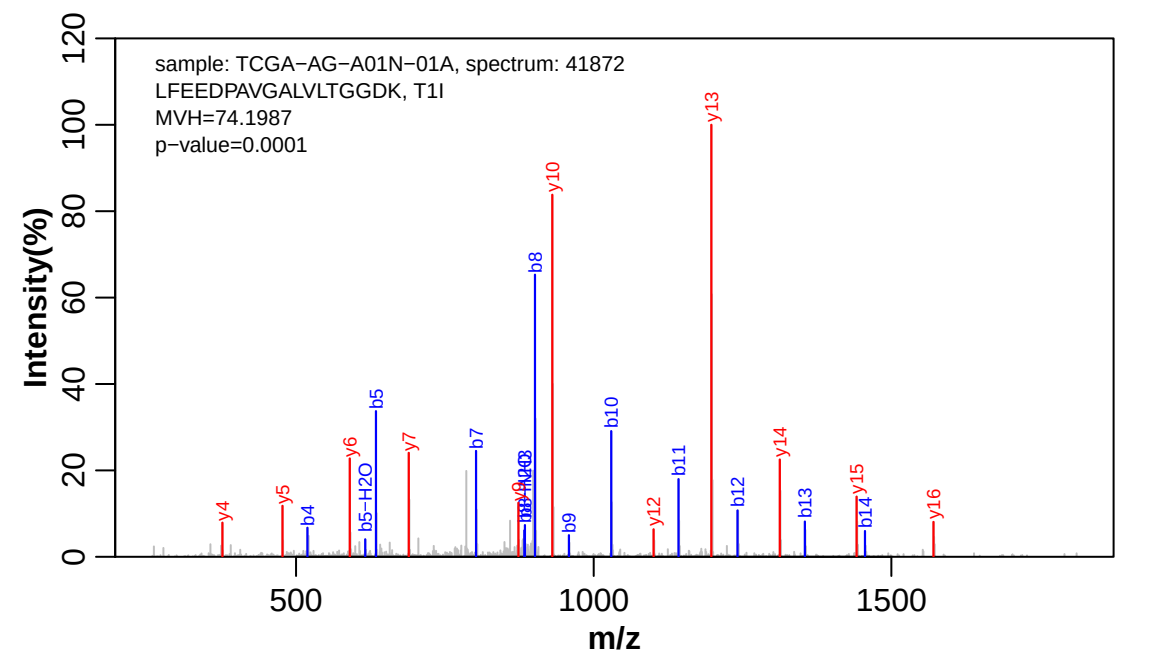

sample: TCGA−AG−A01N−01A, spectrum: 12219
KAFSEYLGTDQSK, G5E
MVH=55.5837
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
b7
y8
b10
y12
y10
y11
y7
b4−H2O
y6−H2O
b11
b8
b9
y9
y5
y4
b4
y3
b5
b6

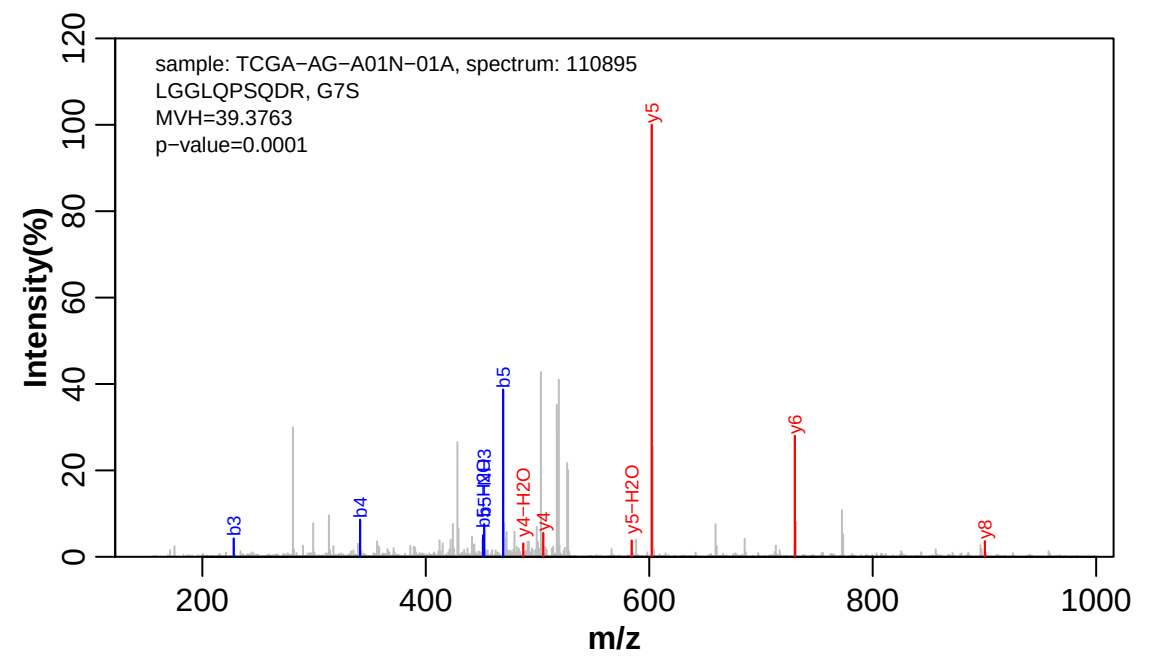

sample: TCGA−AG−A01N−01A, spectrum: 4877
KLDSVFEEPLSK, R9P
MVH=62.6967
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y7++
b5
y6
y5
b4
b4++
y2
b5++
b8++
b5−H2O
b11++
y7
b7

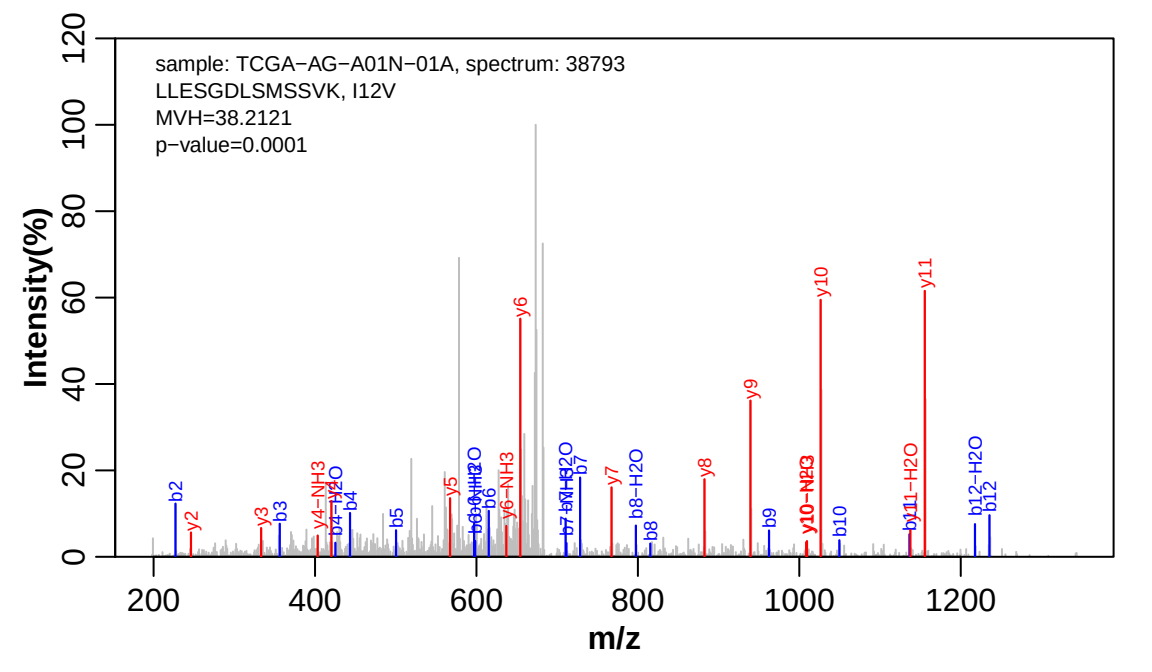

sample: TCGA−AG−A01N−01A, spectrum: 119559
LCNNPAPQFGGK, T6A
MVH=38.1373
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y8
y10
y4
y3
b2
b4
b4−NH3
b5−NH3
b5
b6
y7
y9
b8
b9−NH3
b9

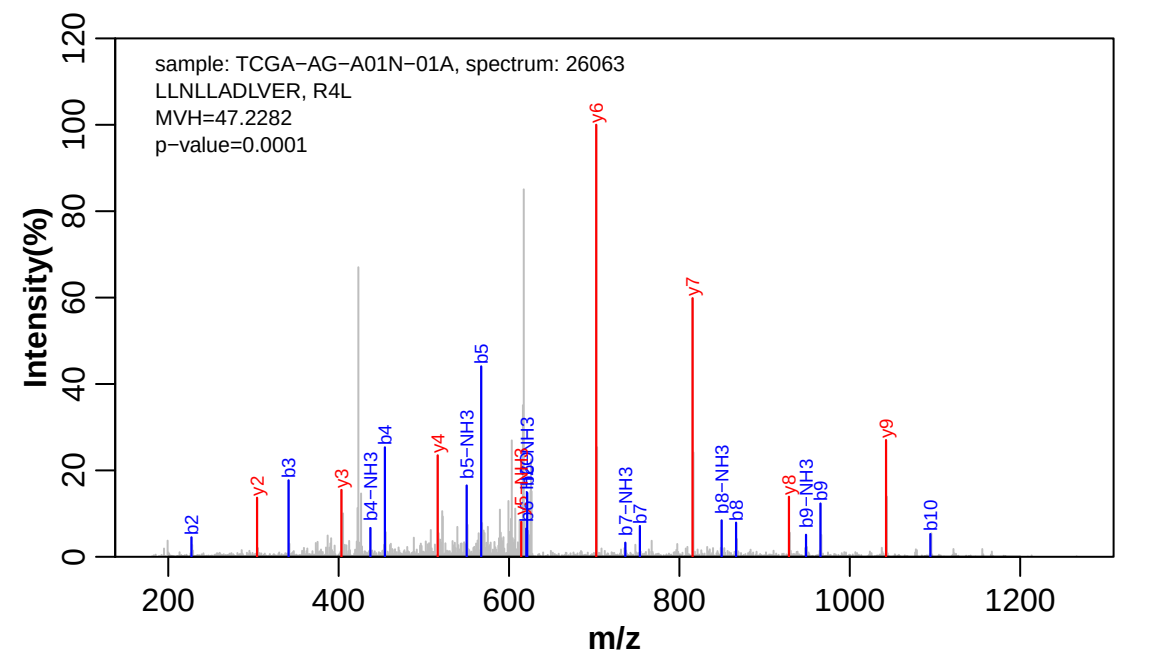

sample: TCGA−AG−A01N−01A, spectrum: 4027
LDSTDFTSTLK, G8S
MVH=49.1254
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b4−H2O
y4
b5
y5
y6
y7
y8
y9
y10

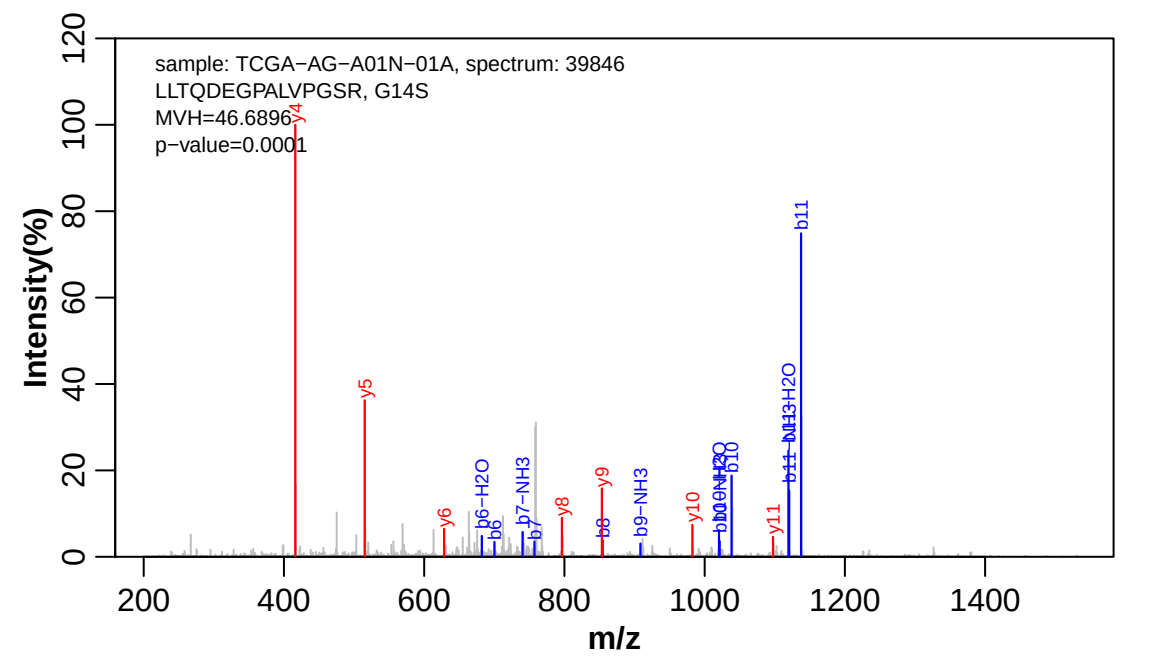

sample: TCGA−AG−A01N−01A, spectrum: 122049
LDSVFEEPLSK, R8P
MVH=40.9925
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−H2O
b3
b4−NH3
b4−H2O
b4
y4
y5
y6
y7
y8
y9
y10
b6
b7−H2O
b7
b9
b10

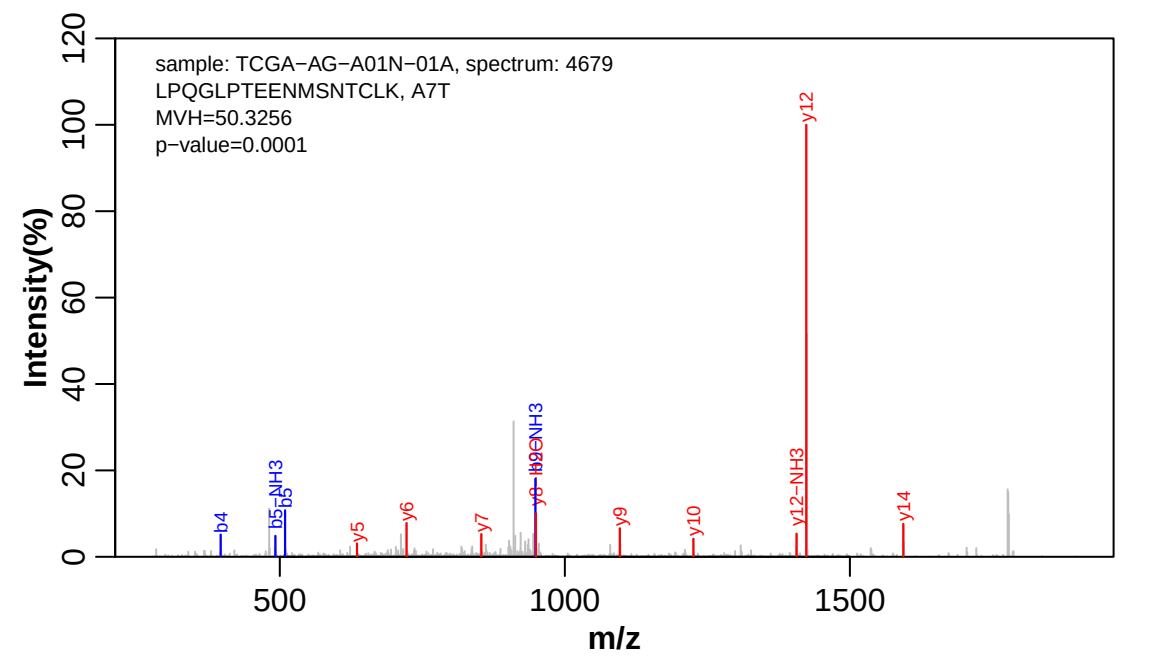

sample: TCGA−AG−A01N−01A, spectrum: 41872
LFEEDPAVGALVLTGGDK, T1I
MVH=74.1987
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
b4
y6
b5−H2O
b5
y7
b7
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
b14
y15
y16

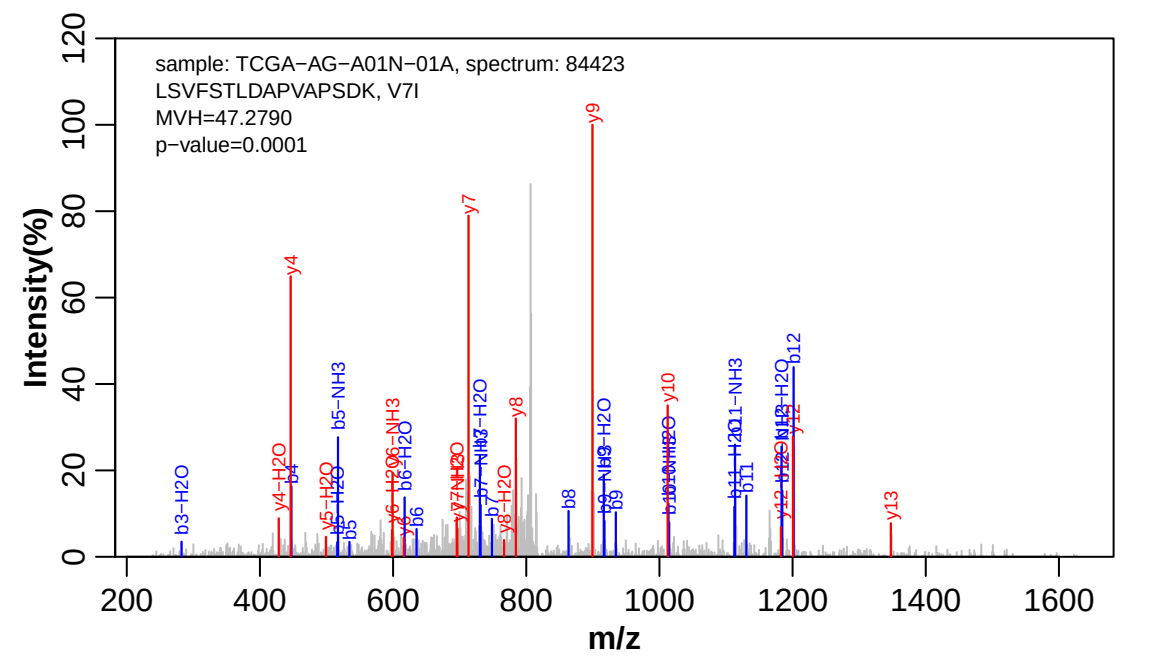

sample: TCGA−AG−A01N−01A, spectrum: 110895
LGGLQPSQDR, G7S
MVH=39.3763
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b3
b4
b5
y4−H2O
y4
y5
y5−H2O
y6
y8

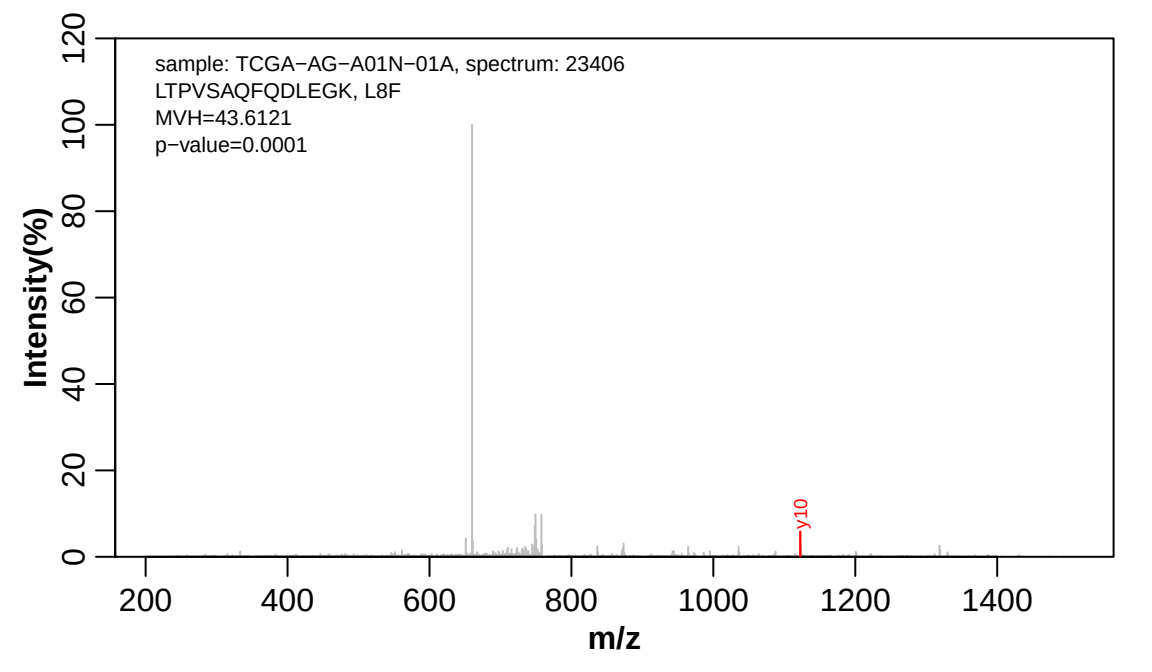

sample: TCGA−AG−A01N−01A, spectrum: 38793
LLESGDLSMSSVK, I12V
MVH=38.2121
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b3
y4−NH3
b4−H2O
b4
b5
y5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b7−NH3
b7−H2O
b7
y7
b8−H2O
b8
y8
y9
b9
y10−NH3
y10−H2O
y10
b10
b11−H2O
y11
b12−H2O
b12

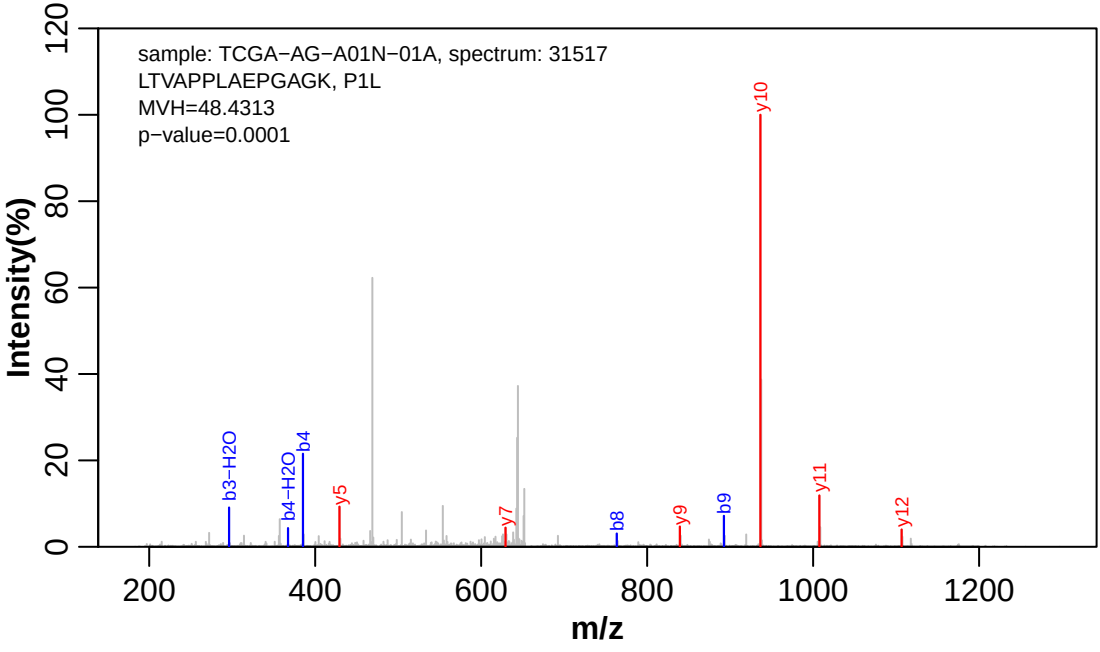

sample: TCGA−AG−A01N−01A, spectrum: 26063
LLNLLADLVER, R4L
MVH=47.2282
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y2
y3
y4
y8
b2
b3
b4
b4−NH3
b5
b5−NH3
b6−NH3
b7−NH3
b7
b8−NH3
b8
b9−NH3
b9
b10

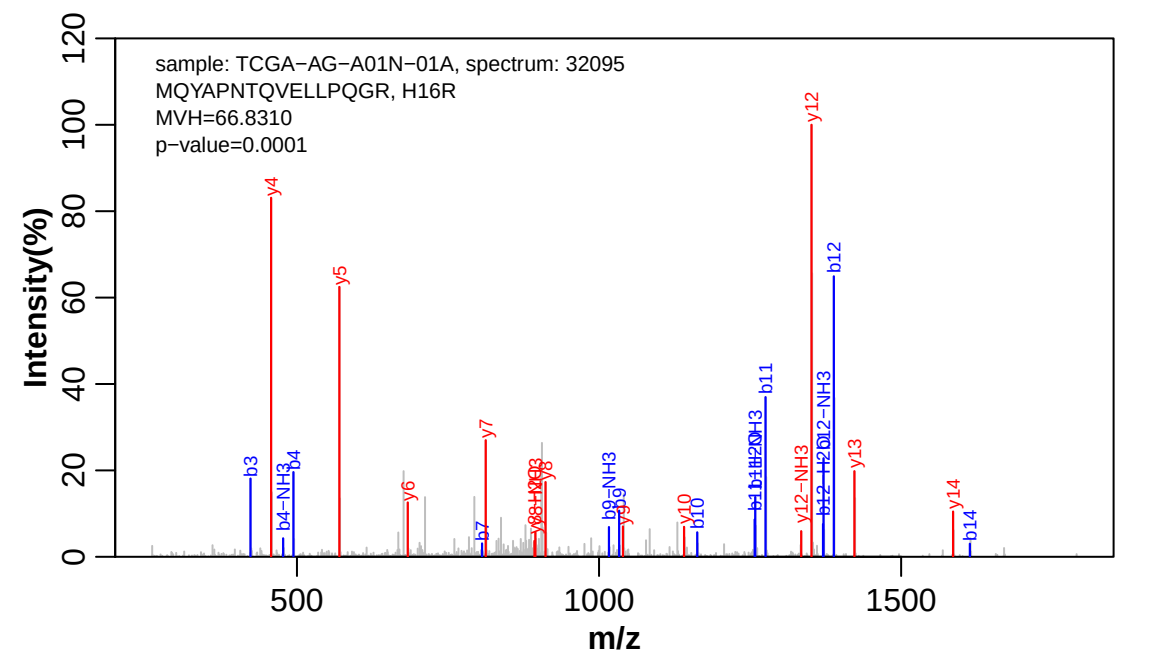

sample: TCGA−AG−A01N−01A, spectrum: 39846
LLTQDEGPALVPGSR, G14S
MVH=46.6896
p−value=0.0001
Intensity(%)
m/z
y4
y5
y6
b6−H2O
b6
b7−NH3
b7
y8
y9
b8
b9−NH3
y10
b10
y11
b11
b11−H2O

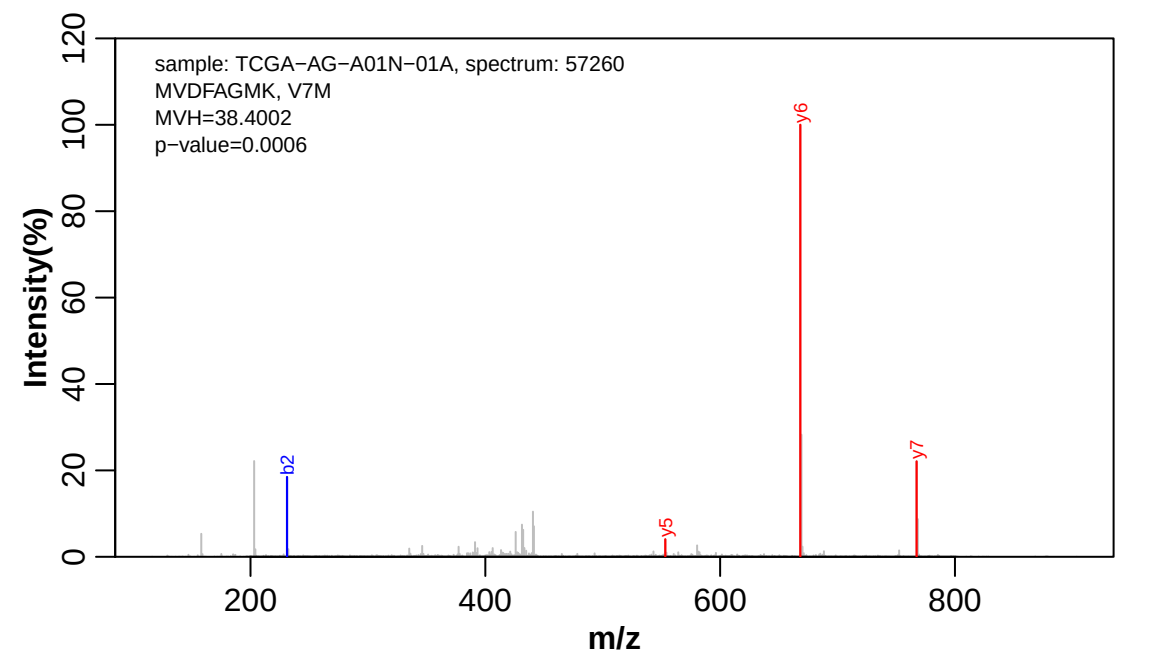

sample: TCGA−AG−A01N−01A, spectrum: 4679
LPQGLPTEENMSNTCLK, A7T
MVH=50.3256
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5−NH3
b5
y5
y6
y7
y8−NH3
y8
y9
y10
y12−NH3
y12
y14

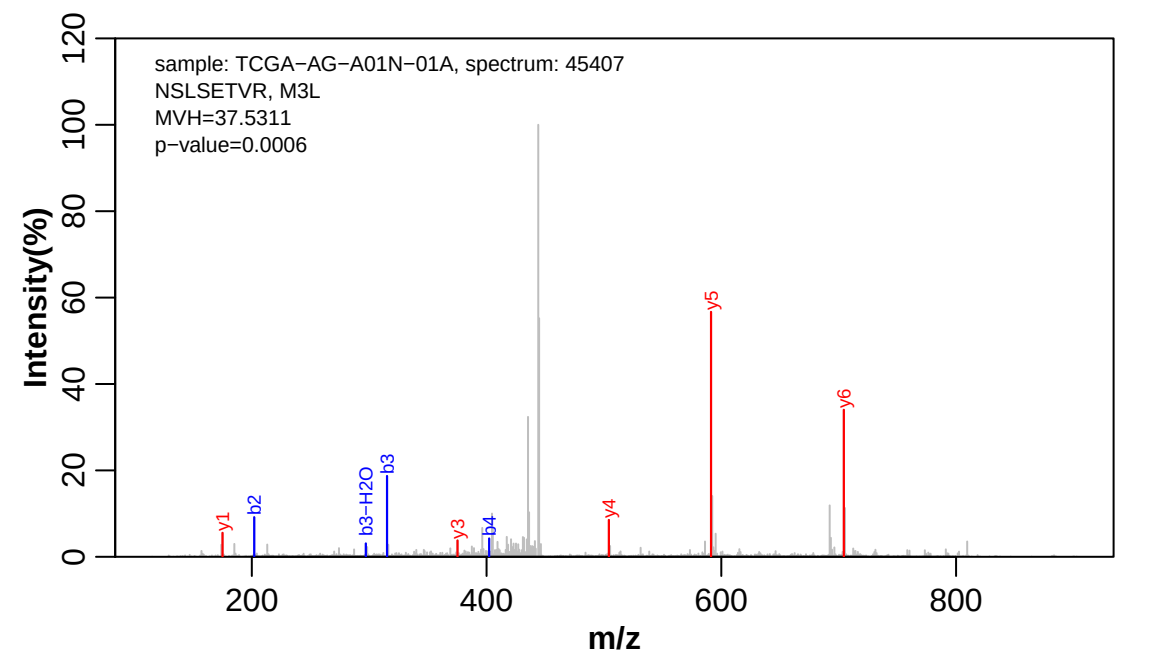

sample: TCGA−AG−A01N−01A, spectrum: 84423
LSVFSTLDAPVAPSDK, V7I
MVH=47.2790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y7
y4
y8
y10
y13
b12
b8
b3−H2O
y4−H2O
b4
b5−NH3
y6−NH3
b6−H2O
b7−NH3−H2O
b9
y6−H2O
y8−H2O
b11−NH3
b11
y12

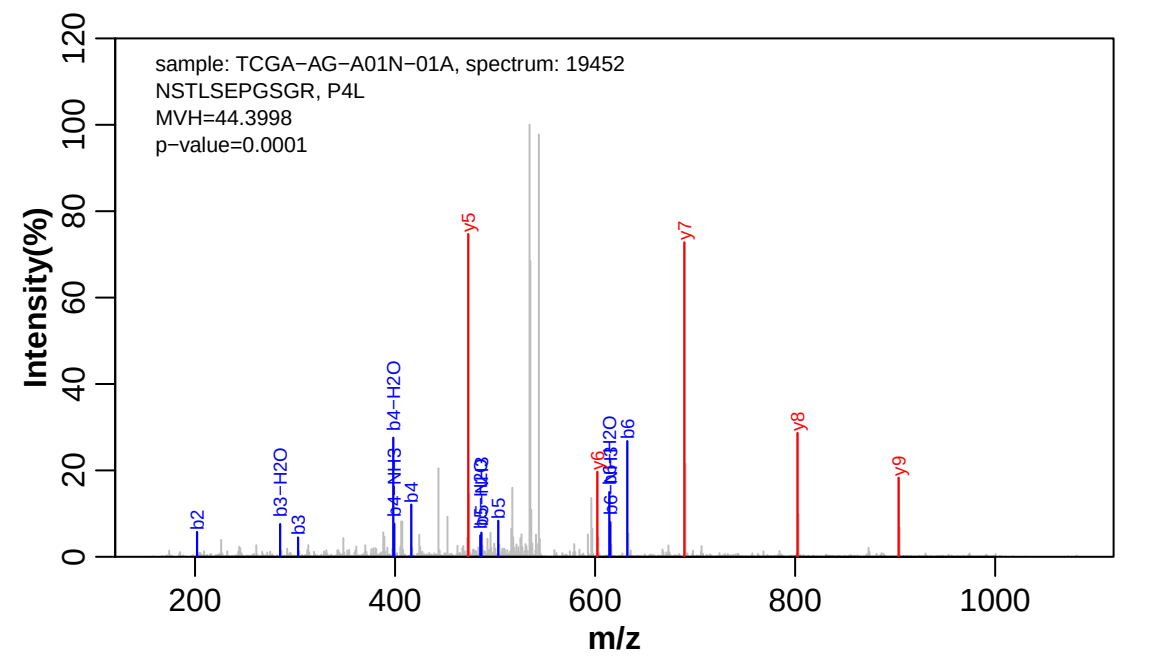

sample: TCGA−AG−A01N−01A, spectrum: 23406
LTPVSAQFQDLEGK, L8F
MVH=43.6121
p−value=0.0001
y10
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

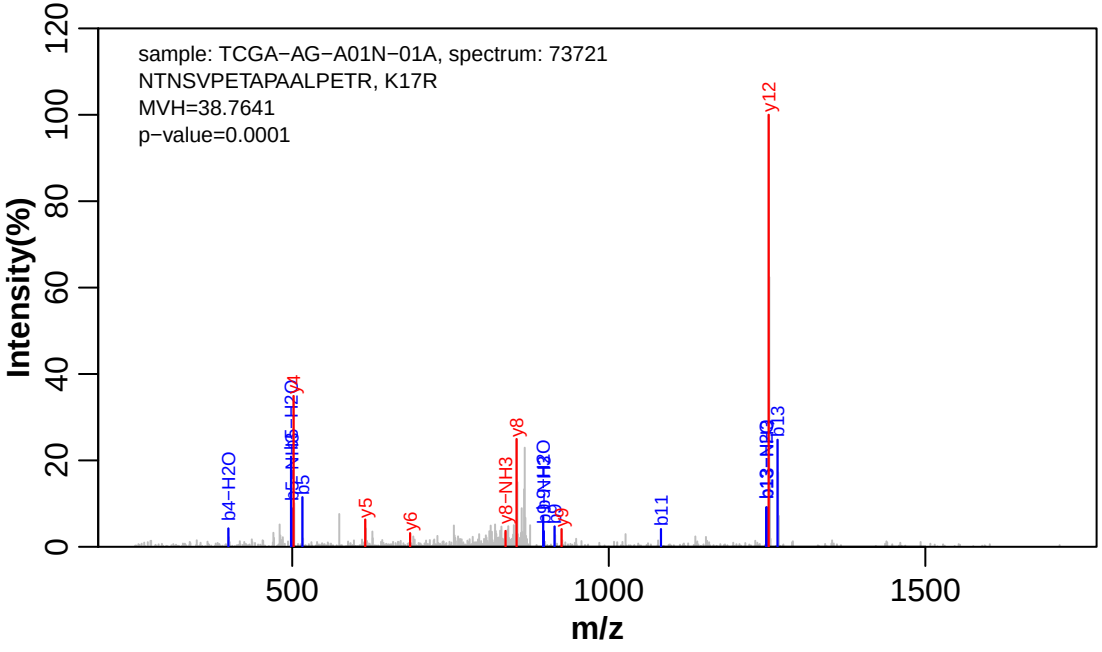

sample: TCGA−AG−A01N−01A, spectrum: 31517
LTVAPPLAEPGAGK, P1L
MVH=48.4313
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3−H2O
b4−H2O
b4
y5
y7
b8
y9
b9
y10
y11
y12

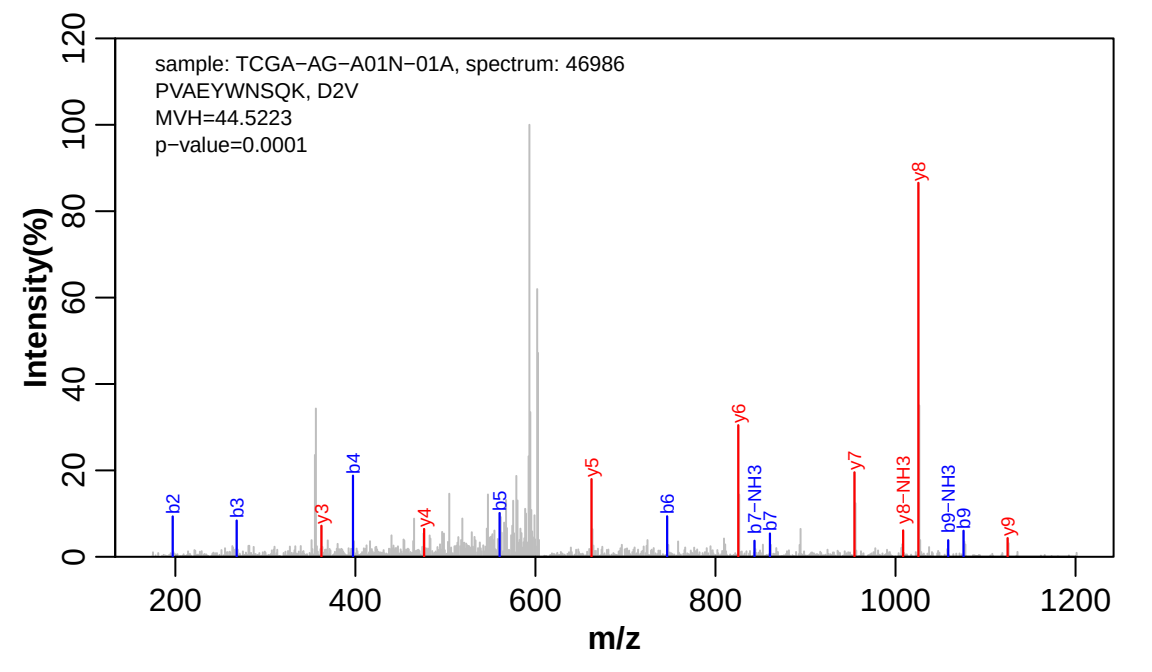

sample: TCGA−AG−A01N−01A, spectrum: 32095
MQYAPNTQVELLPQGR, H16R
MVH=66.8310
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y9
y10
y12
y13
y14
b3
b4
b4−NH3
b7
b9
b9−NH3
b10
b11
b12
b12−NH3
b14

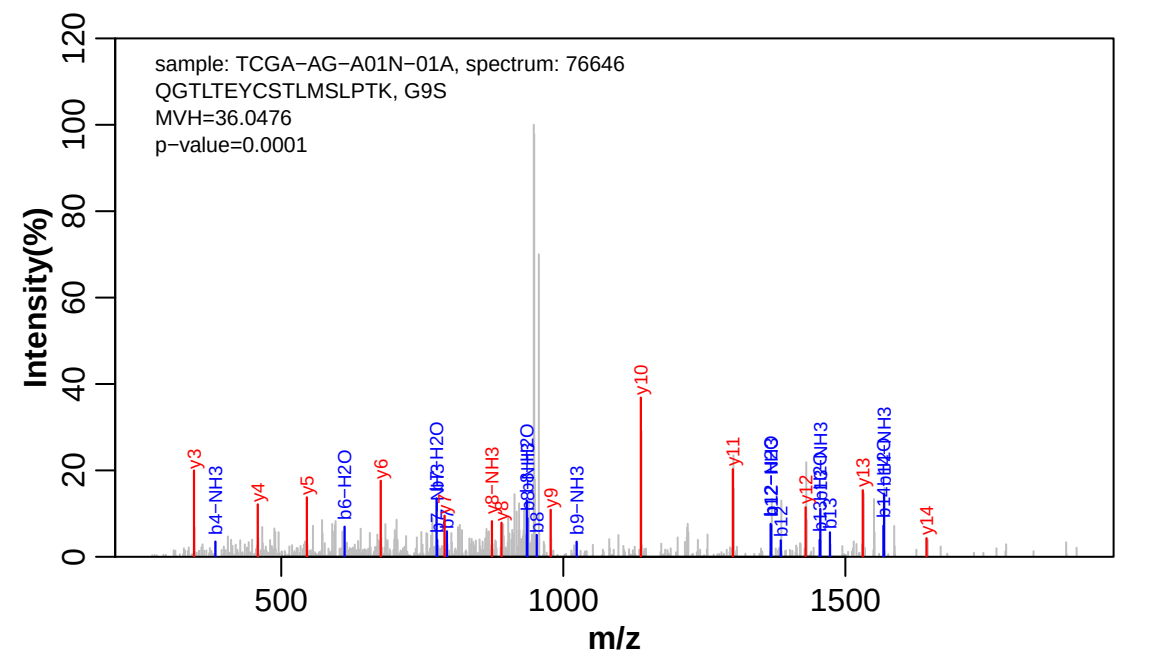

sample: TCGA−AG−A01N−01A, spectrum: 57260
MVDFAGMK, V7M
MVH=38.4002
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y5
y6
y7

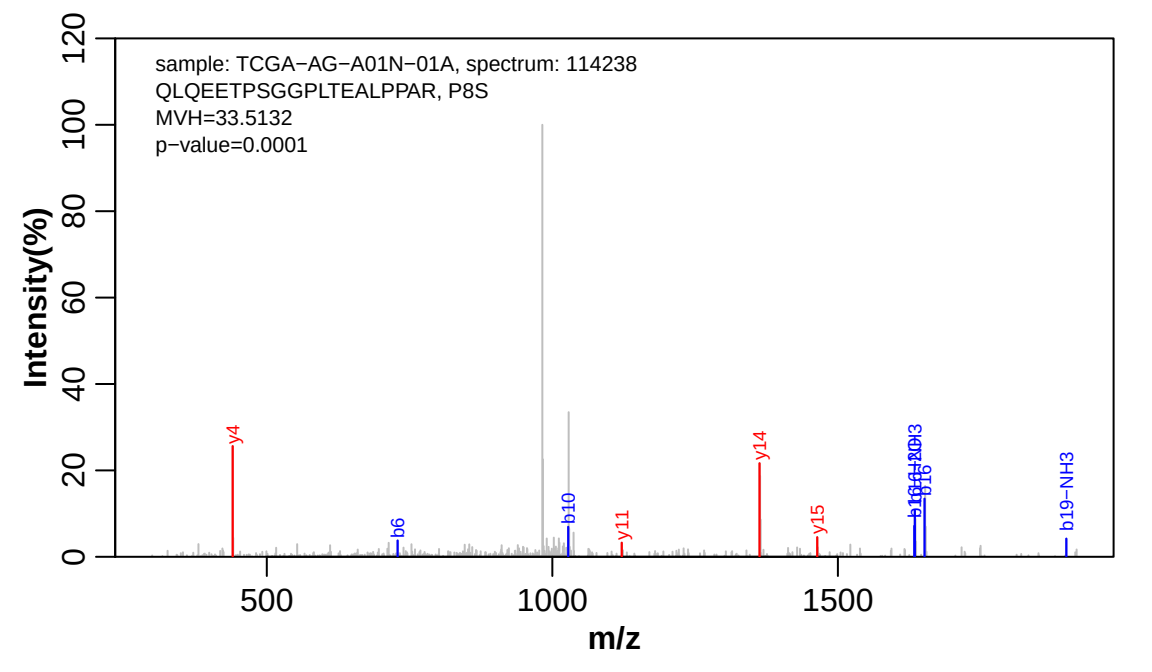

sample: TCGA−AG−A01N−01A, spectrum: 45407
NSLSETVR, M3L
MVH=37.5311
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3−H2O
b3
y3
b4
y4
y5
y6

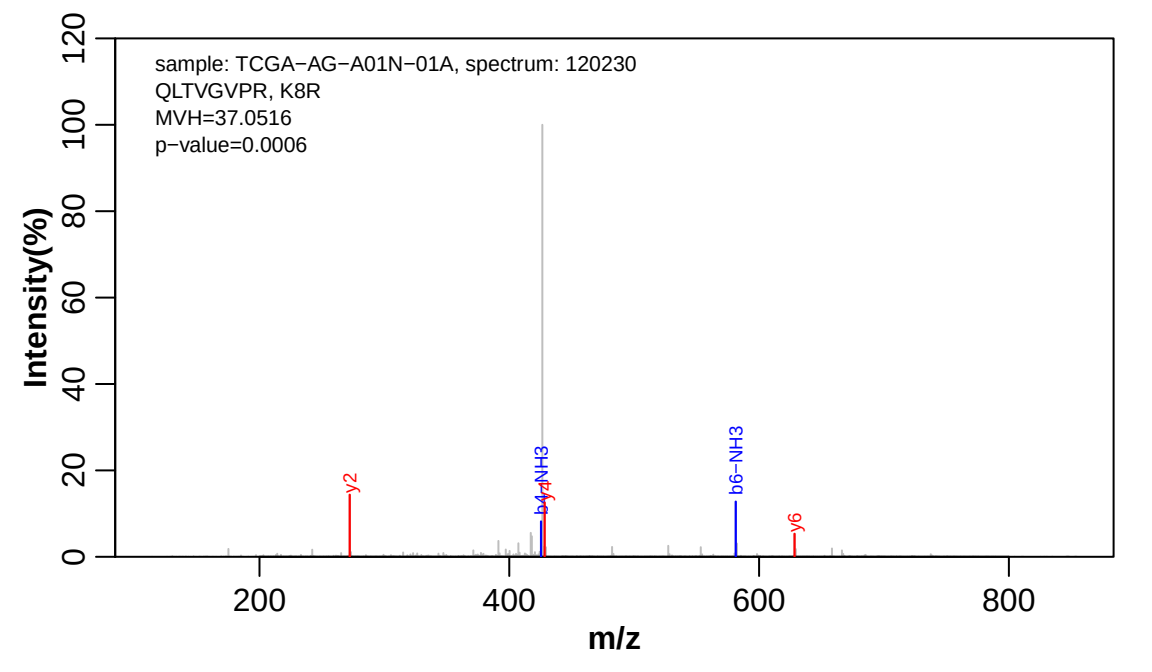

sample: TCGA−AG−A01N−01A, spectrum: 19452
NSTLSEPGSGR, P4L
MVH=44.3998
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
b4−NH3
b4−H2O
b4
b5
y5
y7
y6
b6−H2O
b6
y8
y9

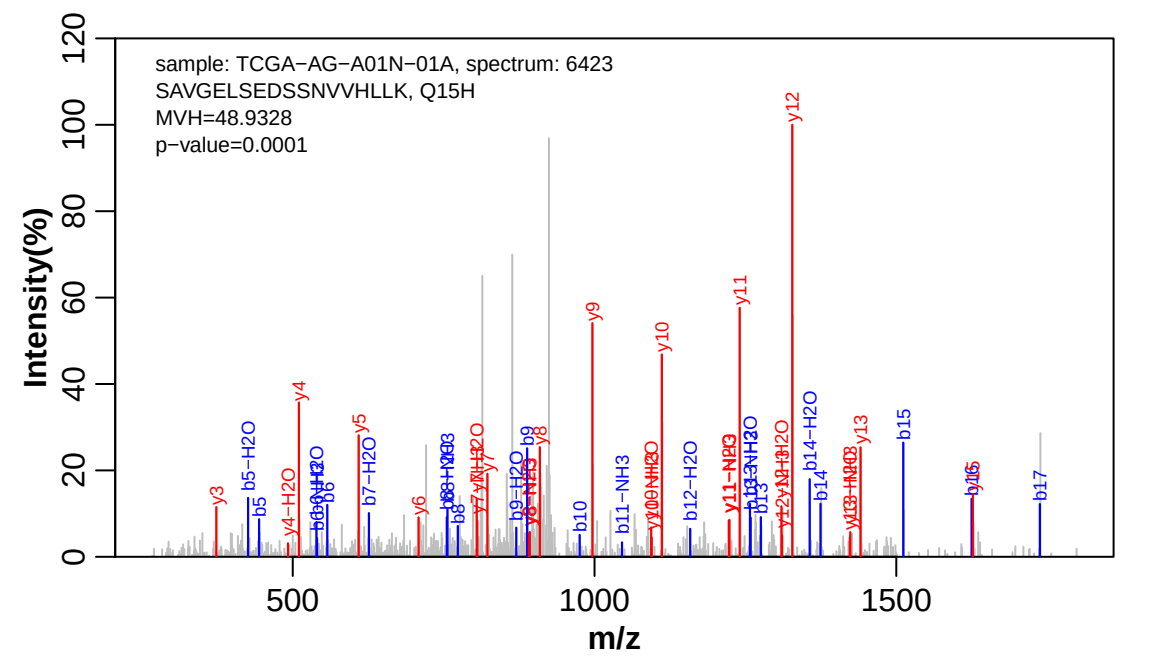

sample: TCGA−AG−A01N−01A, spectrum: 73721
NTNSVPETAPAALPETR, K17R
MVH=38.7641
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
b13
b4−H2O
y5
y6
y8−NH3
b11

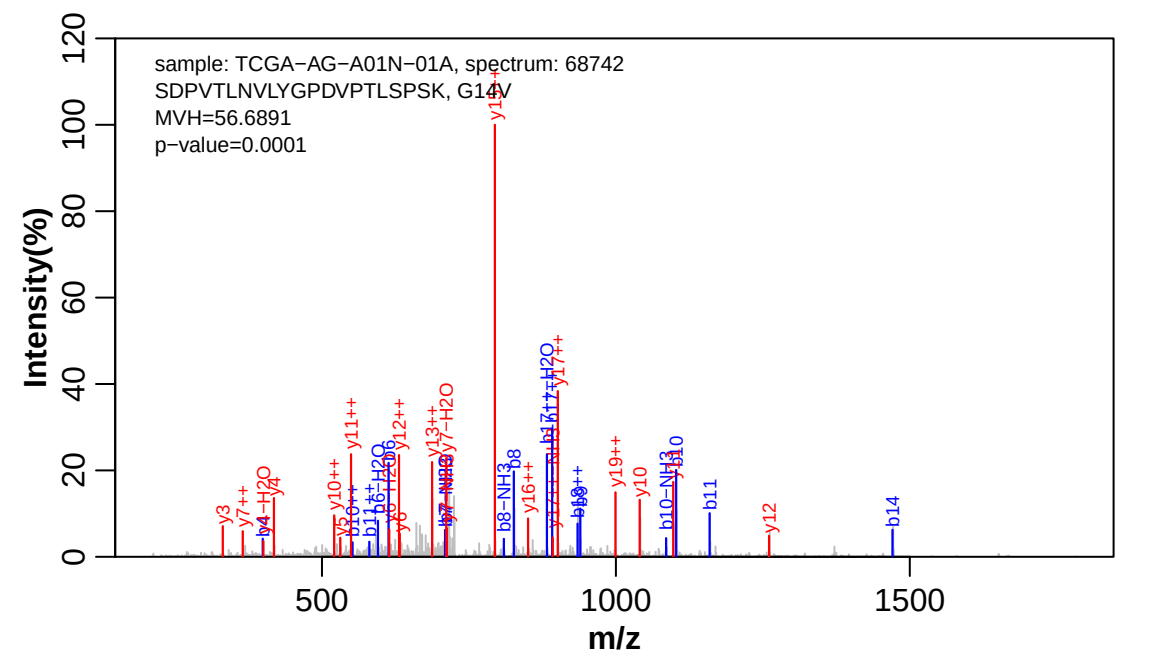

sample: TCGA−AG−A01N−01A, spectrum: 46986
PVAEYWNSQK, D2V
MVH=44.5223
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b3
y3
b4
y4
b5
y5
b6
y6
b7−NH3
b7
y7
y8−NH3
y8
b9−NH3
b9
y9

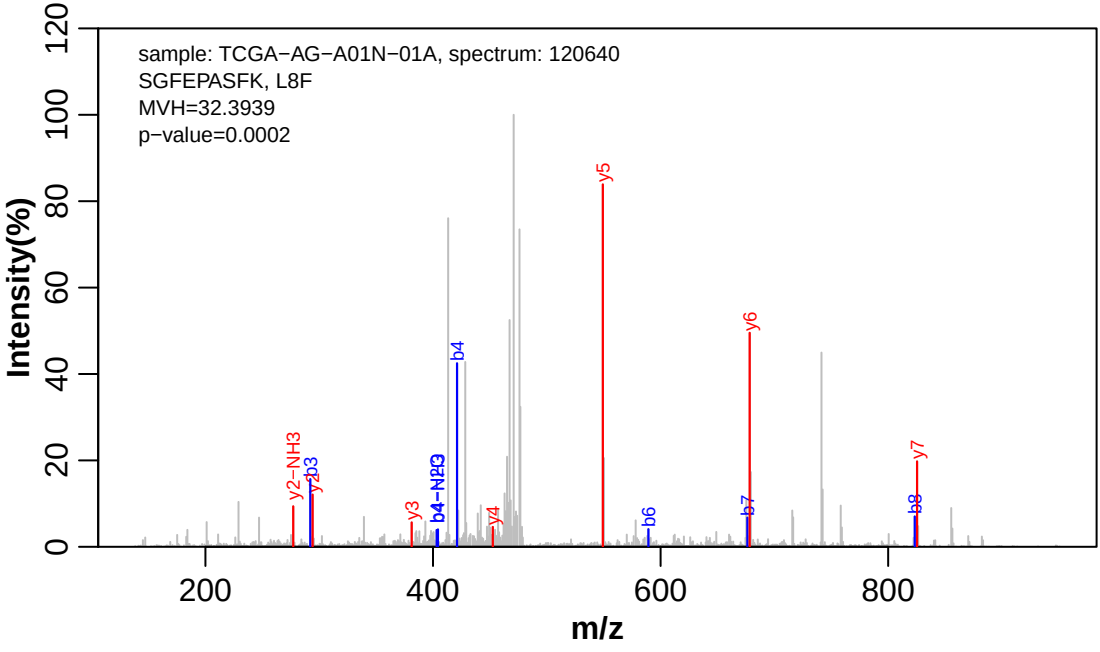

sample: TCGA−AG−A01N−01A, spectrum: 76646
QGTLTEYCSTLMSLPTK, G9S
MVH=36.0476
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b4−NH3
y4
y5
b6−H2O
y6
b7−NH3
b7−H2O
b7
y8−NH3
y8
b8−NH3
b8−H2O
b8
y9
b9−NH3
y10
y11
b12−NH3
b12−H2O
b12
y12
b13−H2O
b13−NH3
b13
y13
b14−H2O
b14−NH3
y14

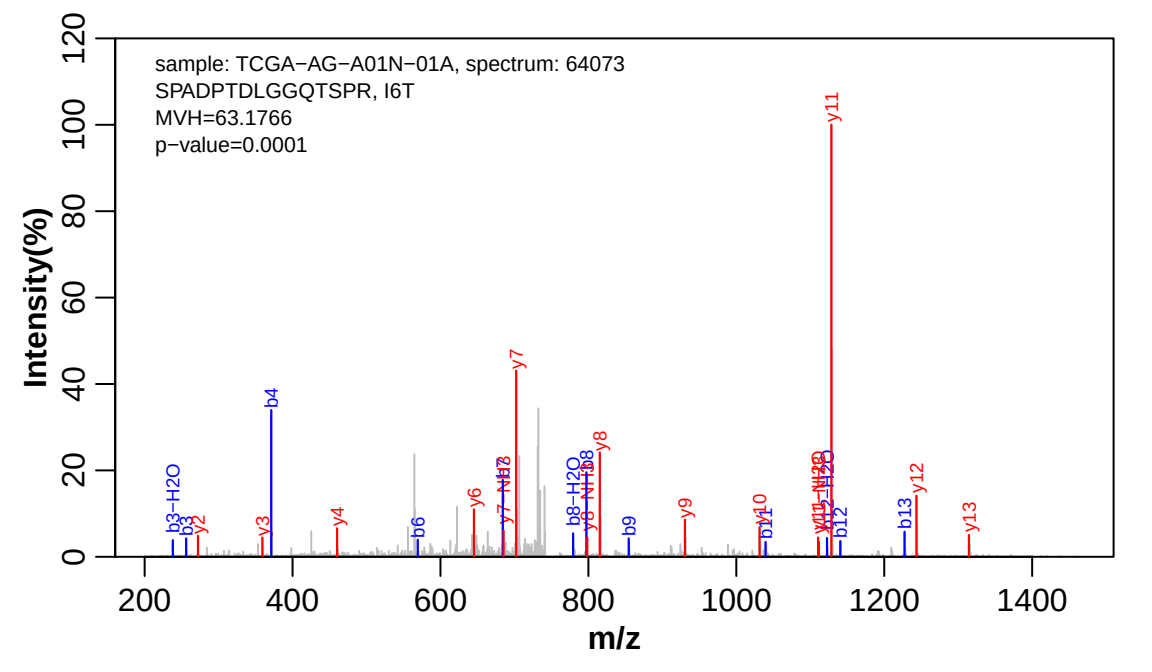

sample: TCGA−AG−A01N−01A, spectrum: 114238
QLQEETPSGGPLTEALPPAR, P8S
MVH=33.5132
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b6
b10
y11
y14
y15
b19−NH3

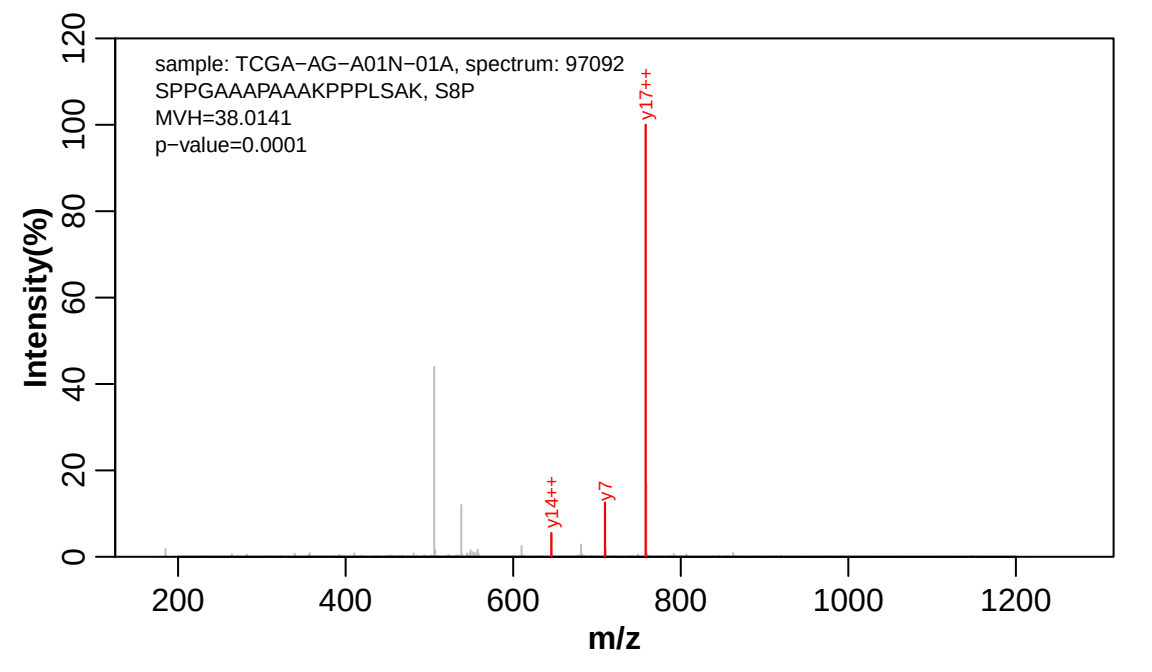

sample: TCGA−AG−A01N−01A, spectrum: 120230
QLTVGVPR, K8R
MVH=37.0516
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y2
b4−NH3
y4
b6−NH3
y6

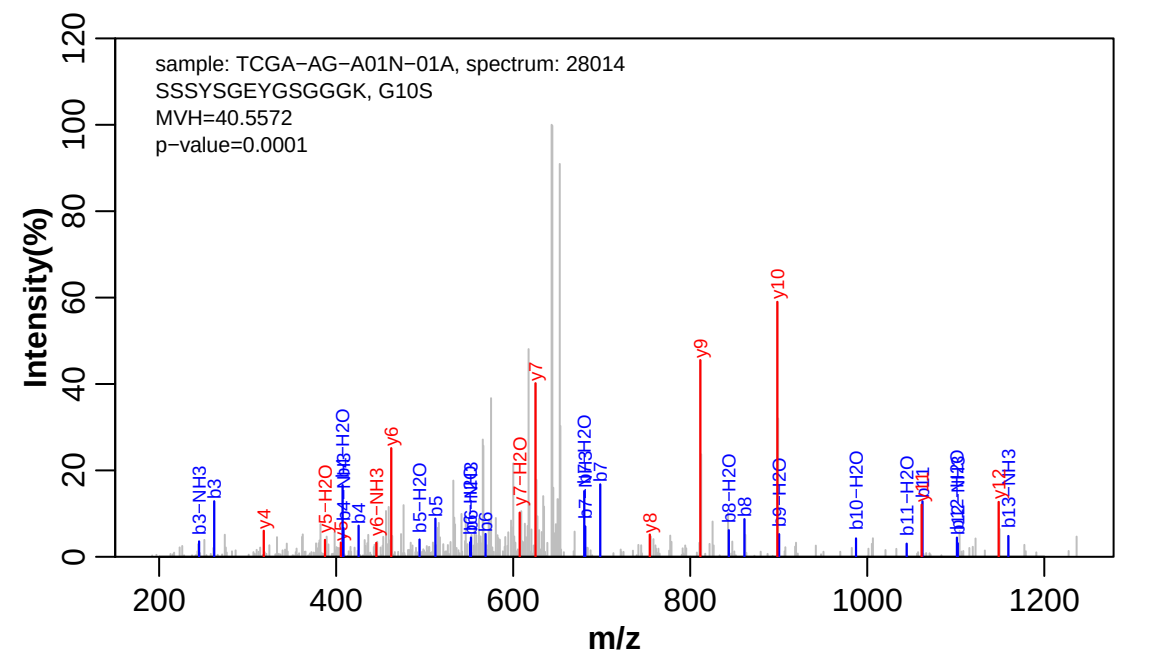

sample: TCGA−AG−A01N−01A, spectrum: 6423
SAVGELSEDSSNVVHLLK, Q15H
MVH=48.9328
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y11
y9
y10
y4
y5
y3
y13
b15
b14−H2O
b5−H2O
b7−H2O
b12−H2O
b11−NH3
b10
b17
b14
b5
y4−H2O
y6
b13
y11−NH3
y12−H2O
b9−H2O
y8
b9
b8
b6
b16
y13−NH3

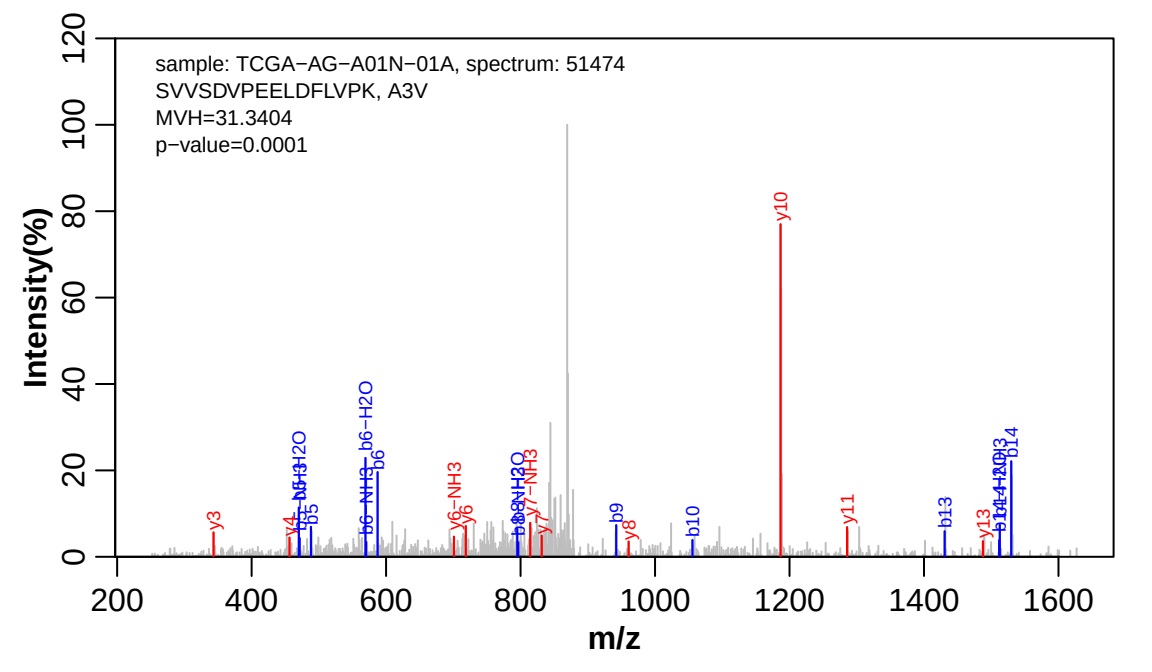

sample: TCGA−AG−A01N−01A, spectrum: 68742
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=56.6891
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y15++
y3
y7++
b4−H2O
y4
y5
y10++
y11++
b10++
b11++
b6−H2O
y6
y12++
y13++
y7−H2O
b8−NH3
b8
y16++
y19++
y10
b10−NH3
y10
b11
y12
b14

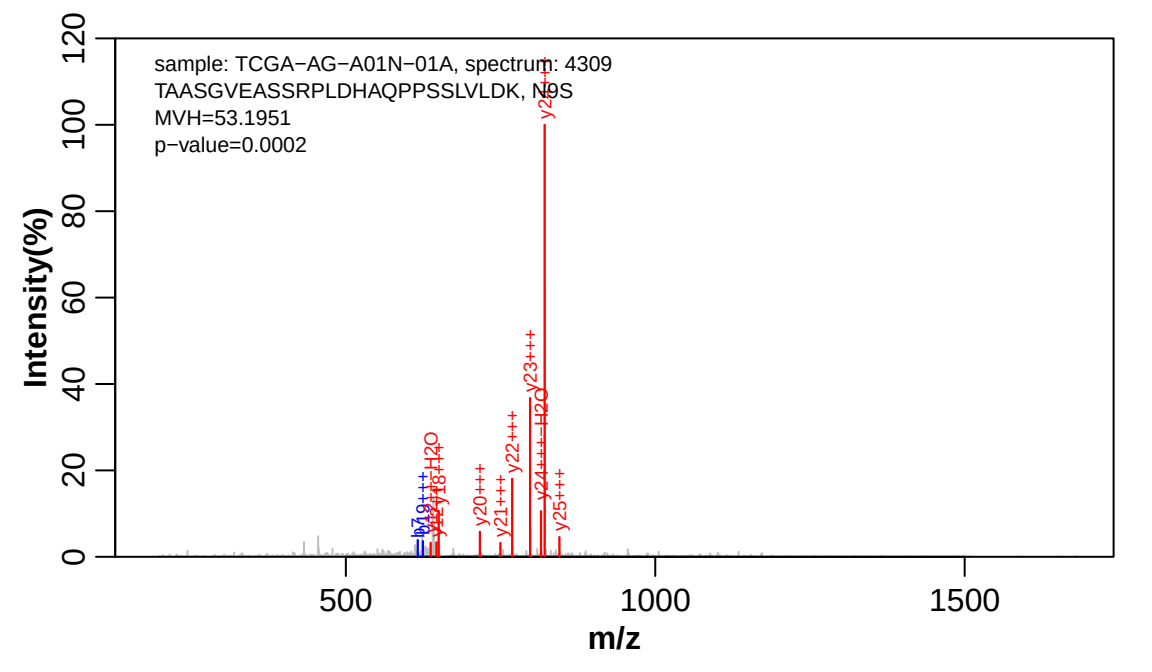

sample: TCGA−AG−A01N−01A, spectrum: 120640
SGFEPASFK, L8F
MVH=32.3939
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y5
y6
b4
y2−NH3
y2
y3
b4−NH3
b4−H2O
y4
b6
b7
b8
y7

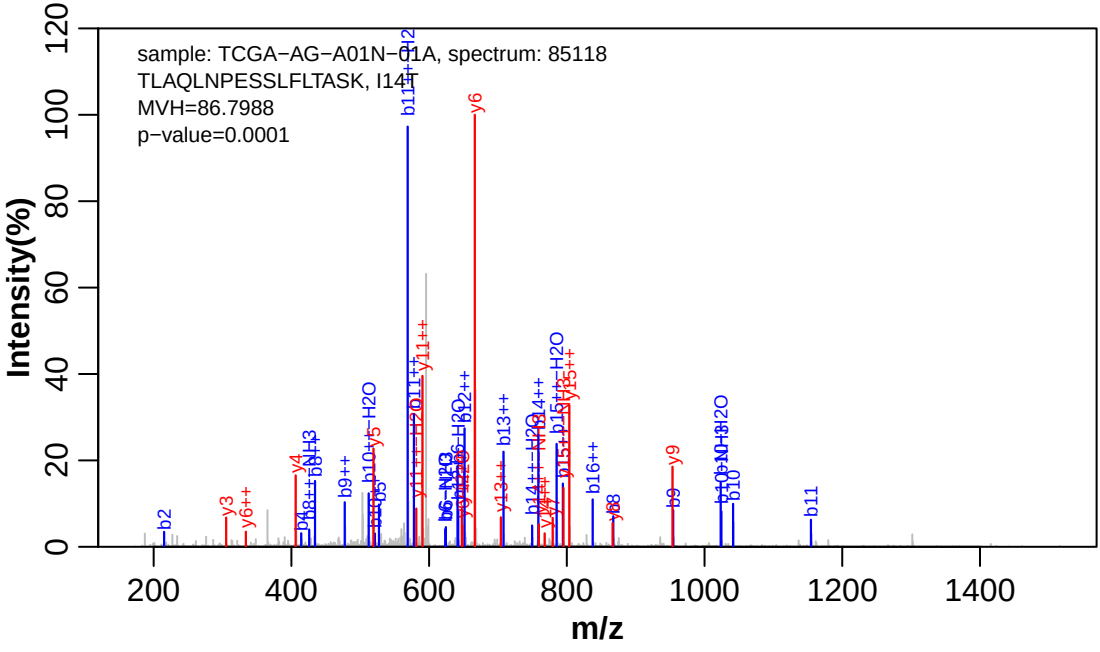

sample: TCGA−AG−A01N−01A, spectrum: 64073
SPADPTDLGGQTSPR, I6T
MVH=63.1766
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y2
y3
b4
y4
b6
y6
y7−NH3
y7
b8−H2O
y8−NH3
y8
b9
y9
b10
y10
b11
y11−NH3
y11−H2O
y11
b12
b13
y12
y13

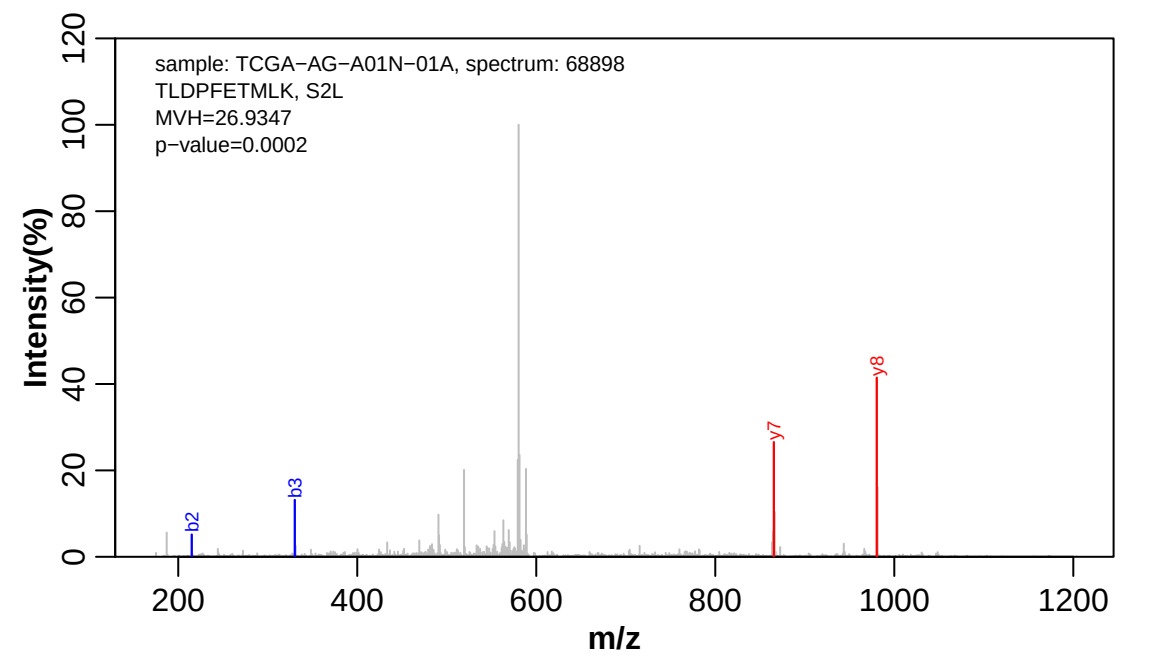

sample: TCGA−AG−A01N−01A, spectrum: 97092
SPPGAAAPAAAKPPPLSAK, S8P
MVH=38.0141
p−value=0.0001
y17++
y14++
y7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

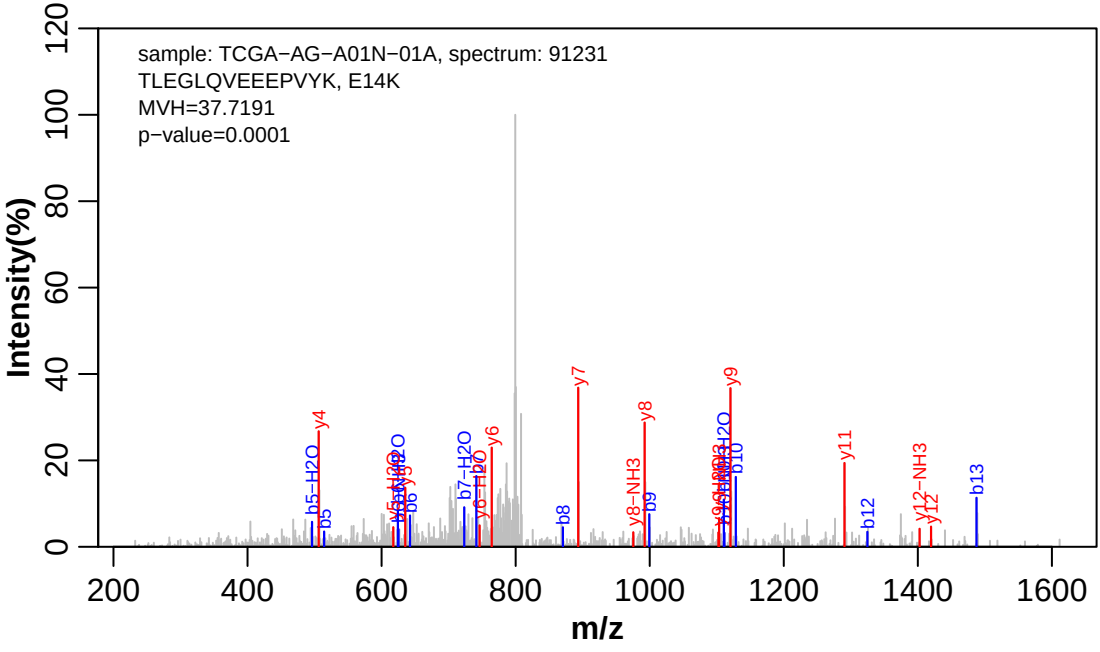

sample: TCGA−AG−A01N−01A, spectrum: 28014
SSSYSGEYGSGGGK, G10S
MVH=40.5572
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−NH3
b3
y4
y5−H2O
b4
y6−NH3
y6
b5−H2O
b5
y7−H2O
y7
b7
y8
y9
b8−H2O
b8
y10
b9−H2O
b10−H2O
b11−H2O
b11
y12
b13−NH3

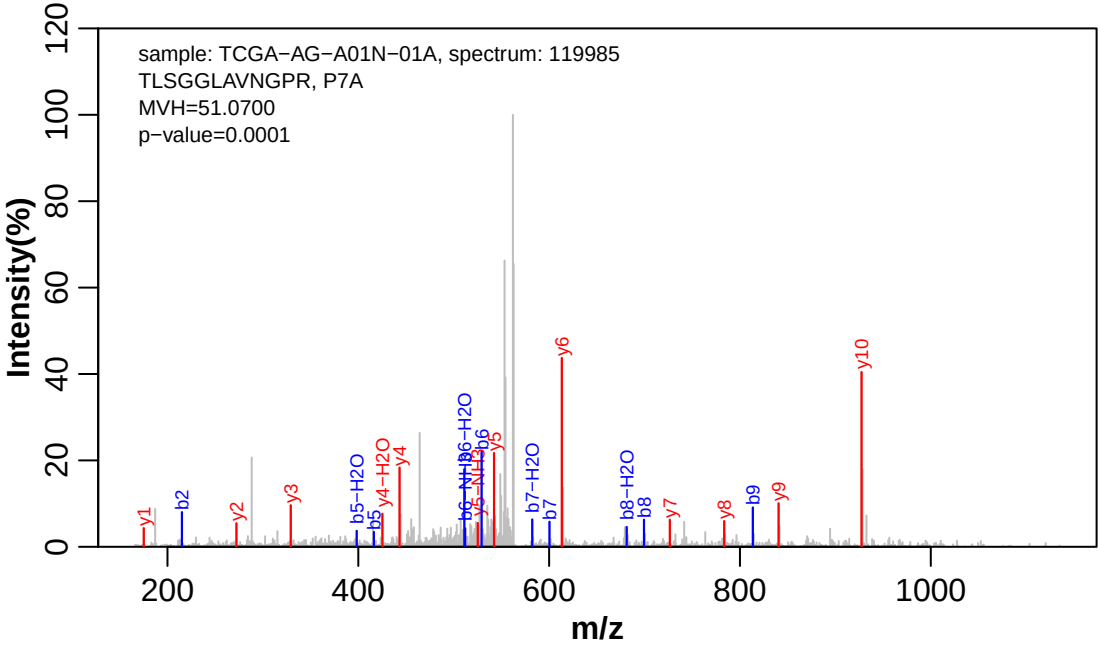

sample: TCGA−AG−A01N−01A, spectrum: 51474
SVVSDVPEELDFLVPK, A3V
MVH=31.3404
p−value=0.0001
Intensity(%)
m/z
y10
y3
y4
y5
b5
b6−NH3
b6−H2O
b6
y6−NH3
y6
b9
y8
b10
y11
b13
y13
b14

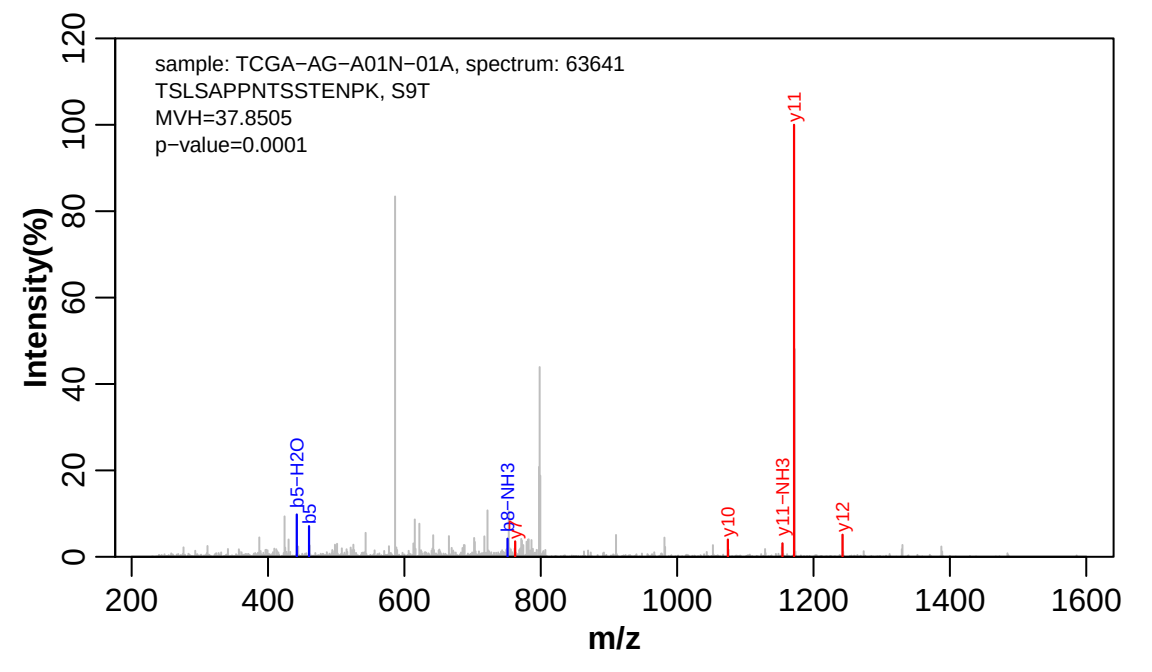

sample: TCGA−AG−A01N−01A, spectrum: 4309
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=53.1951
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y24+++
y23+++
y24+++−H2O
y22+++
y20+++
y21+++
y25+++

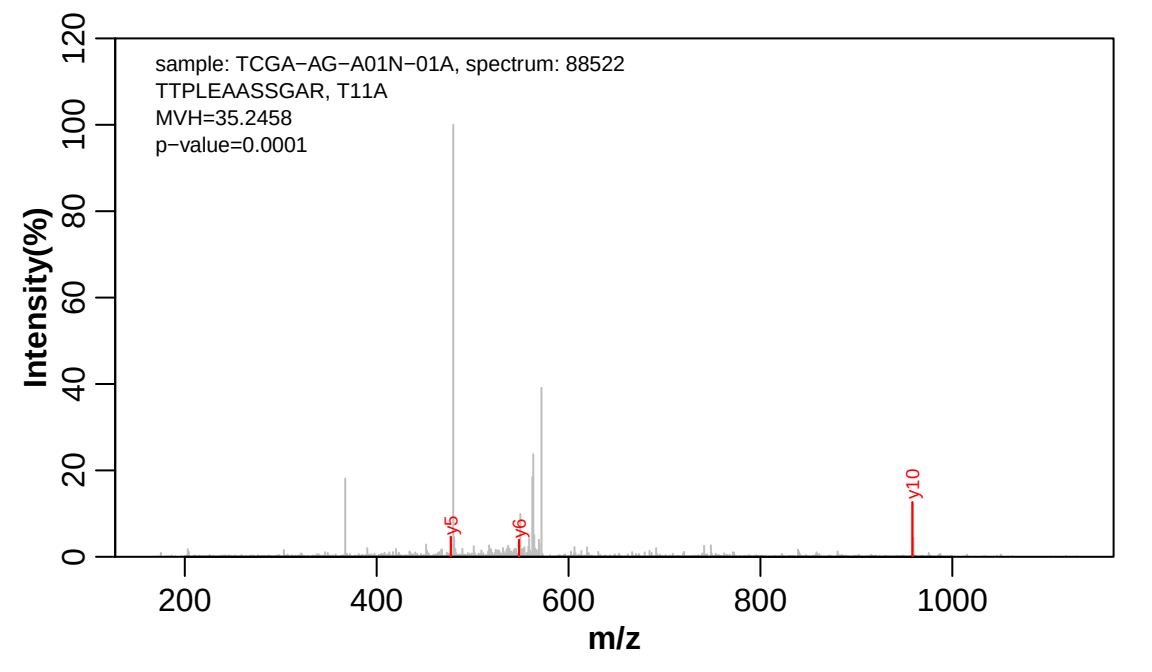

sample: TCGA−AG−A01N−01A, spectrum: 85118
TLAQLNPESSLFLTASK, I14T
MVH=86.7988
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
y6++
y4
b9++
b10+y5−H2O
b11++
y6
y11++
y15++
b13++
b16++
y8
y9
b10
b11

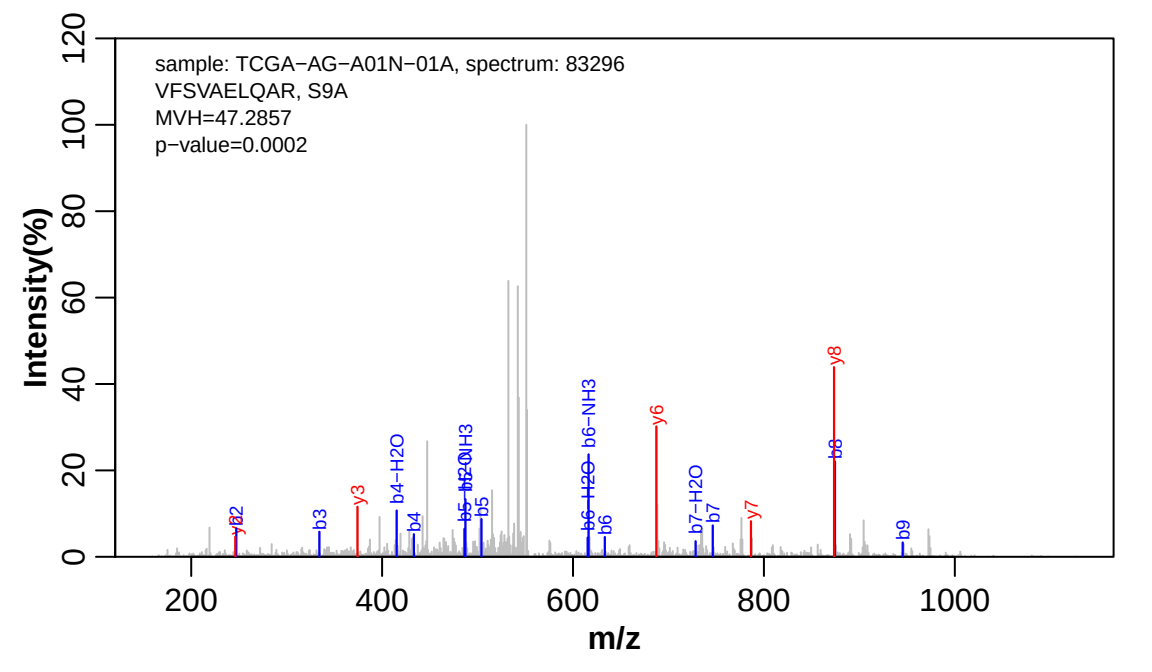

sample: TCGA−AG−A01N−01A, spectrum: 68898
TLDPFETMLK, S2L
MVH=26.9347
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3
y7
y8

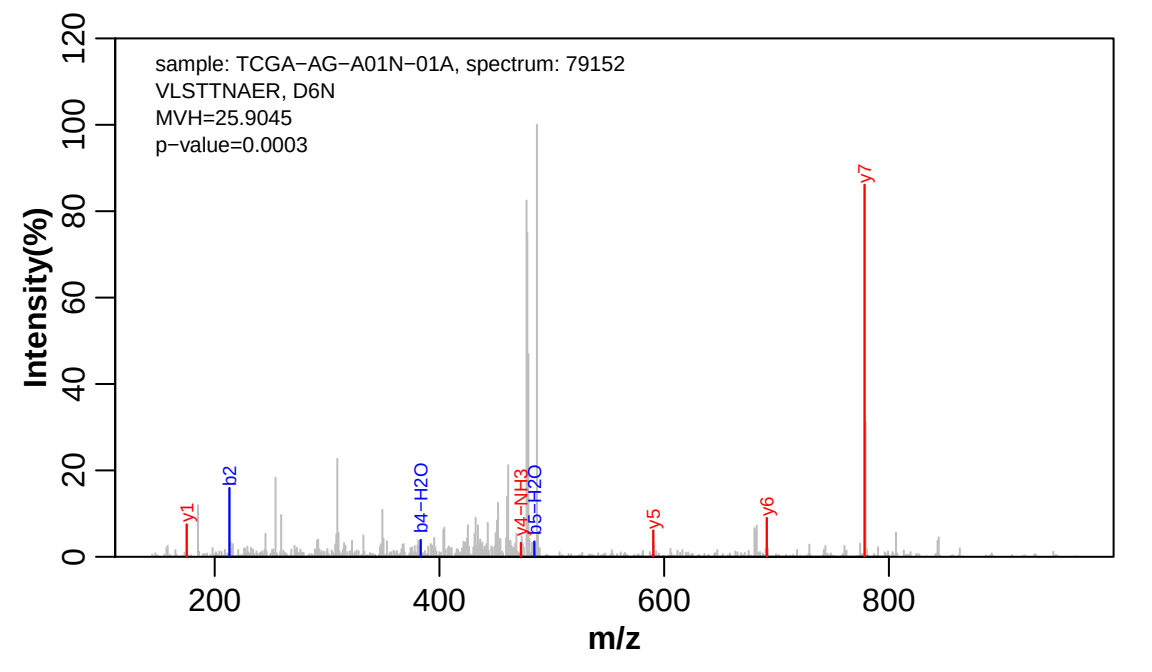

sample: TCGA−AG−A01N−01A, spectrum: 91231
TLEGLQVEEEPVYK, E14K
MVH=37.7191
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y4
b5−H2O
b5
y7
y8
y8−NH3
b9
b8
y6
y6−H2O
b7−H2O
y9
b10
y11
b12
y12−NH3
y12
b13

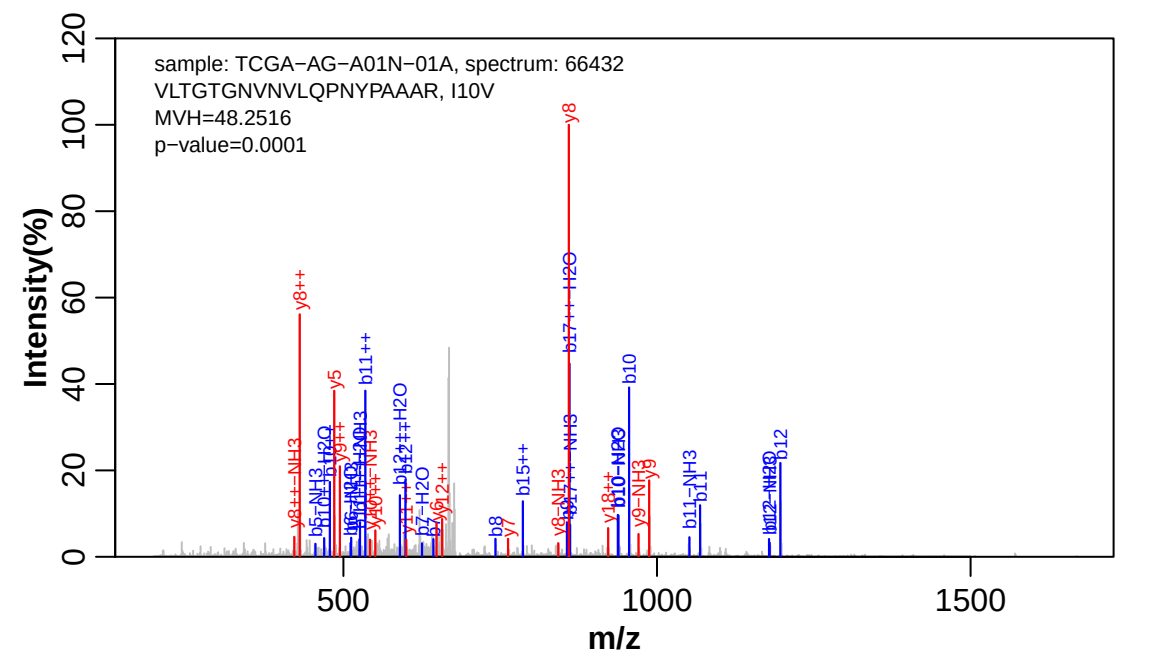

sample: TCGA−AG−A01N−01A, spectrum: 119985
TLSGGLAVNGPR, P7A
MVH=51.0700
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y2
y3
b5−H2O
b5
y4−H2O
y4
b6−NH3−H2O
b6−NH3
b6
y5
b7−H2O
b7
y6
b8−H2O
b8
y7
y8
b9
y9
y10

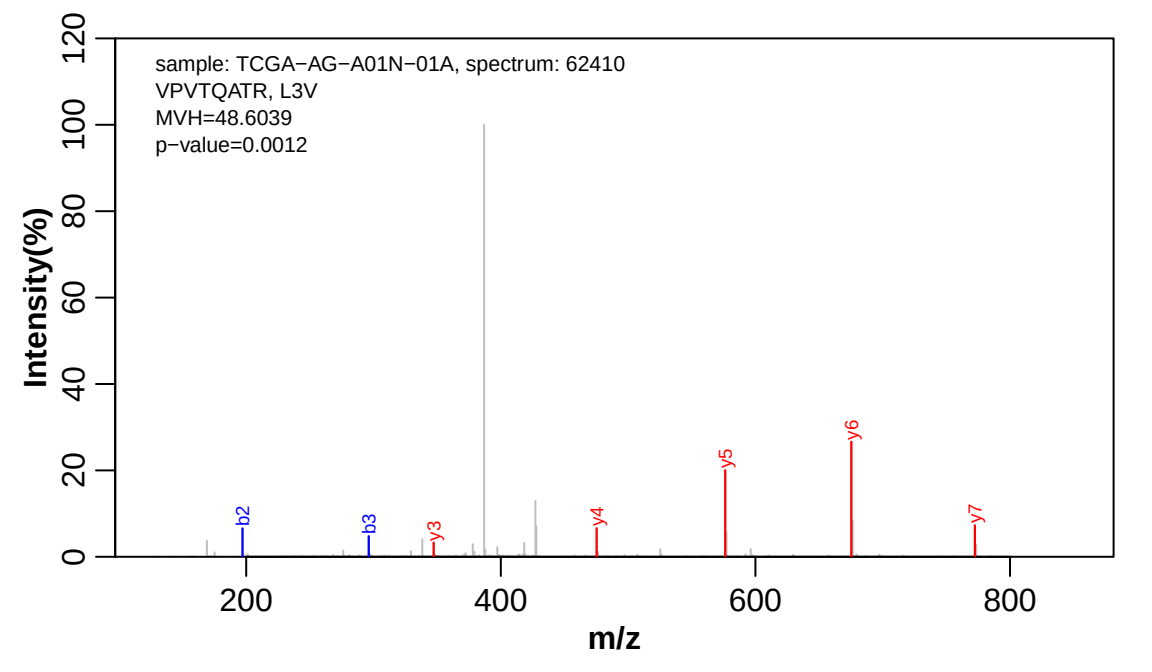

sample: TCGA−AG−A01N−01A, spectrum: 63641
TSLSAPPNTSSTENPK, S9T
MVH=37.8505
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b5−H2O
b5
b8−NH3
y7
y10
y11−NH3
y11
y12

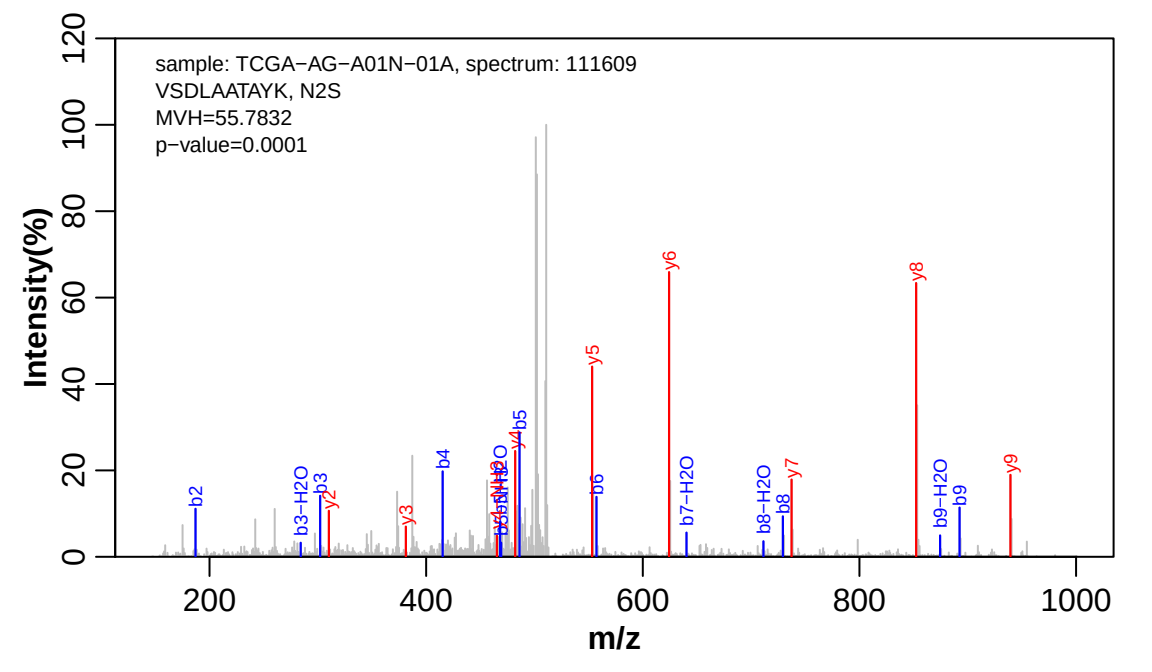

sample: TCGA−AG−A01N−01A, spectrum: 88522
TTPLEAASSGAR, T11A
MVH=35.2458
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y5
y6
y10

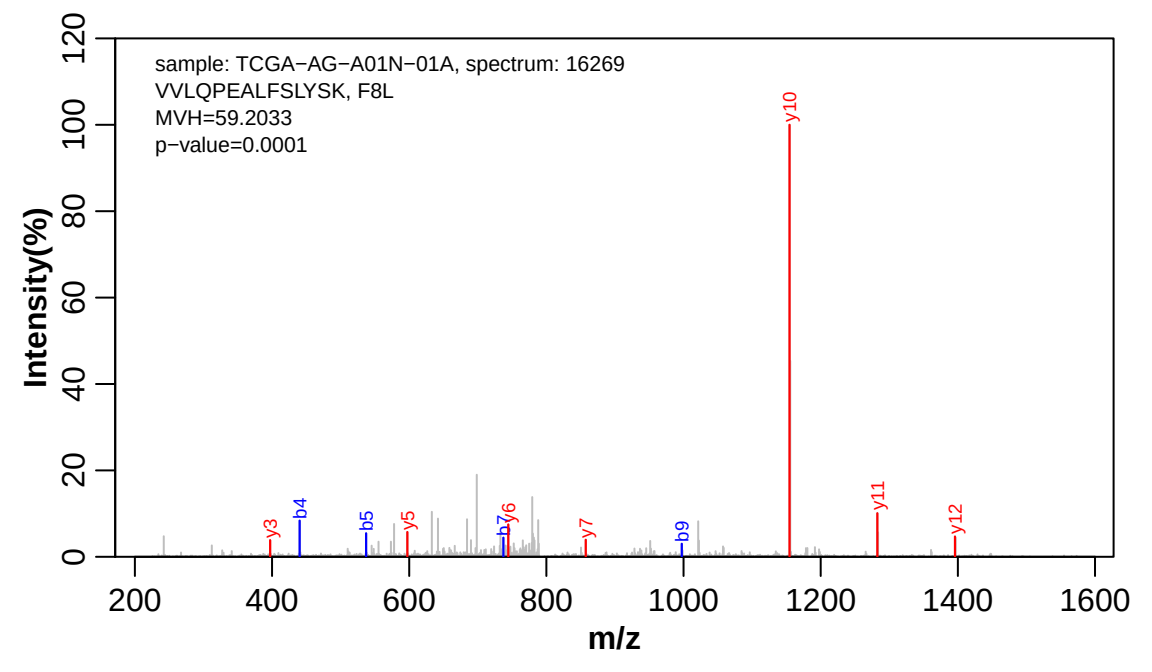

sample: TCGA−AG−A01N−01A, spectrum: 83296
VFSVAELQAR, S9A
MVH=47.2857
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y2
b3
y3
b4−H2O
b4
b5−NH3
b5
b6−H2O
b6−NH3
b6
y6
b7−H2O
b7
y7
y8
b8
b9

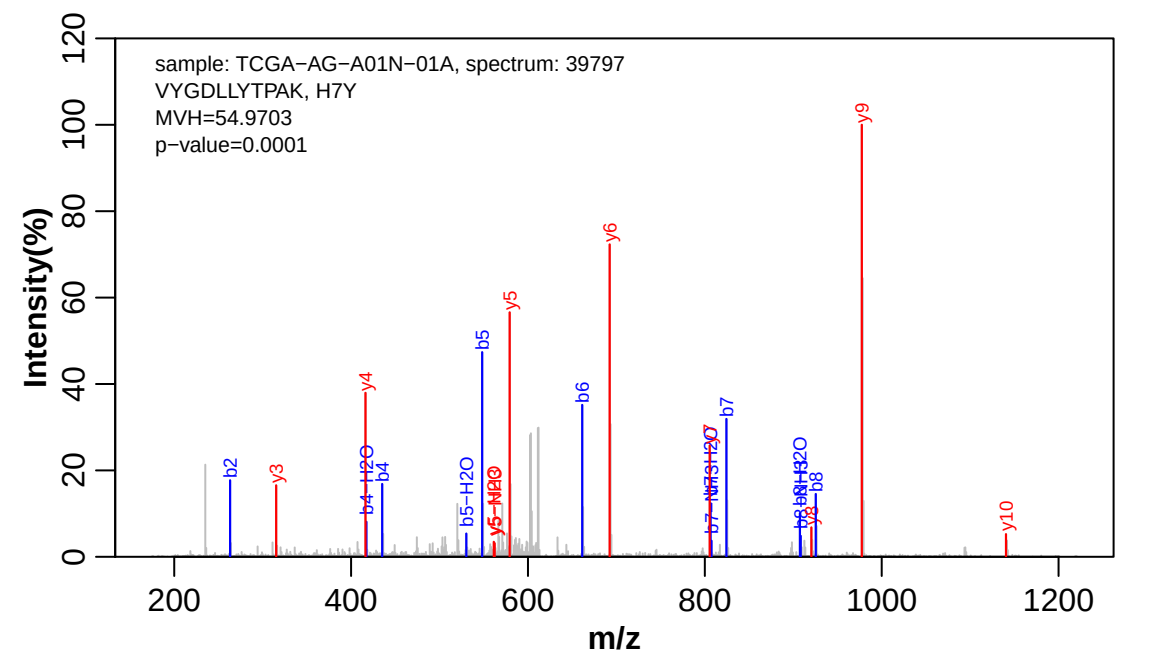

sample: TCGA−AG−A01N−01A, spectrum: 79152
VLSTTNAER, D6N
MVH=25.9045
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b4−H2O
y4−NH3
b5−H2O
y5
y6
y7

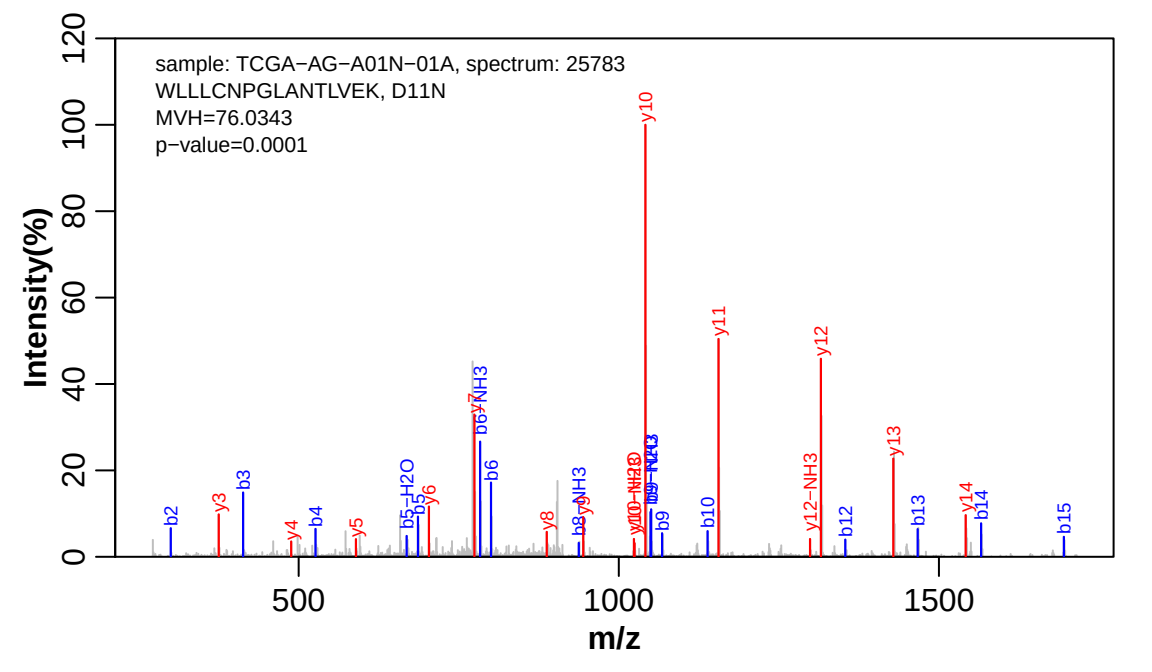

sample: TCGA−AG−A01N−01A, spectrum: 66432
VLTGTGNVNVLQPNYPAAAR, I10V
MVH=48.2516
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y8++
y8++−NH3
y5
b11++
b10
b17++−H2O
b17++−NH3
b15++
b8
y7
y8−NH3
y9−NH3
b11−NH3
b12
y12++

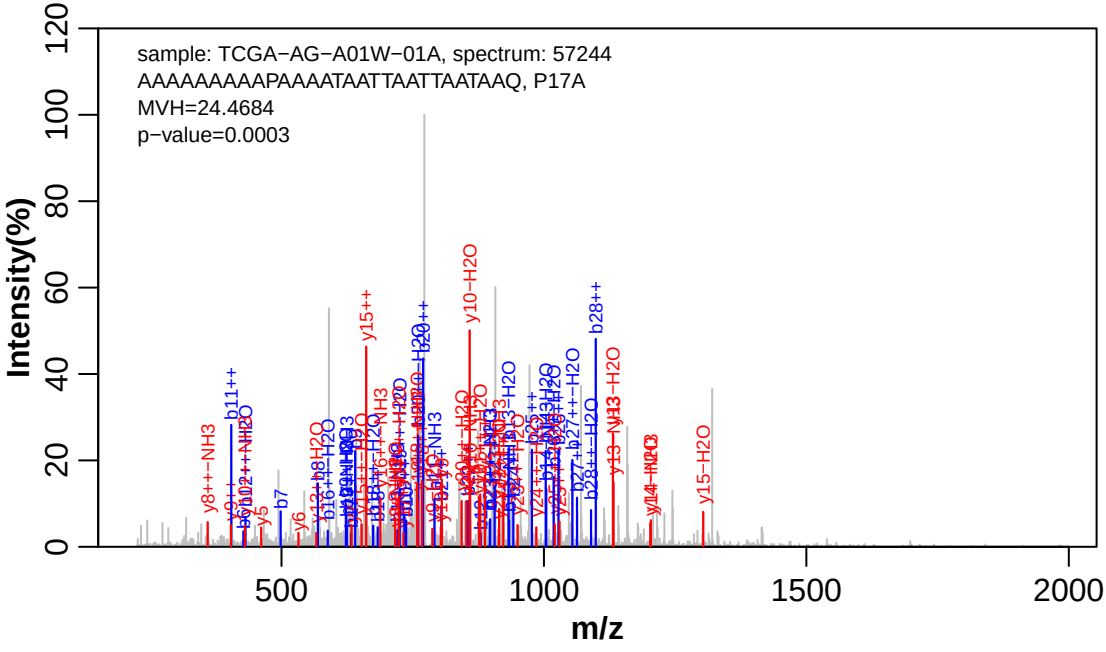

sample: TCGA−AG−A01N−01A, spectrum: 62410
VPVTQATR, L3V
MVH=48.6039
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y3
y4
y5
y6
y7

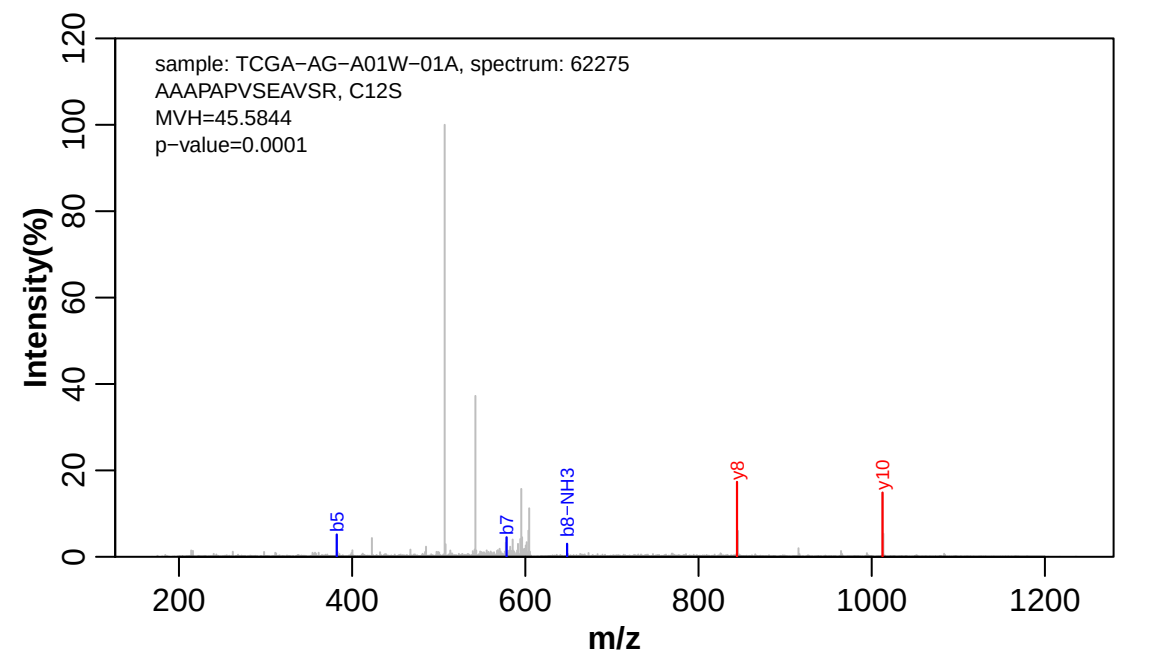

sample: TCGA−AG−A01N−01A, spectrum: 111609
VSDLAATAYK, N2S
MVH=55.7832
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−NH3
b5−H2O
y4
b5
y5
b6
y6
b7−H2O
b8−H2O
b8
y7
y8
b9−H2O
b9
y9

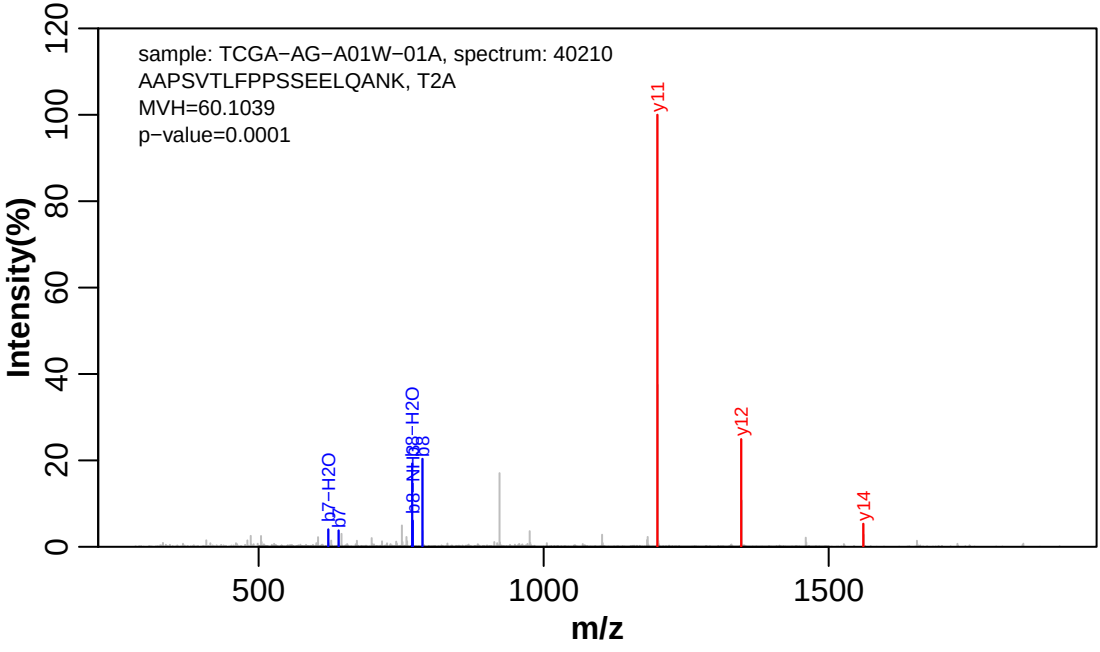

sample: TCGA−AG−A01N−01A, spectrum: 16269
VVLQPEALFSLYSK, F8L
MVH=59.2033
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
y3
b4
b5
y5
b7
y6
y7
b9
y10
y11
y12

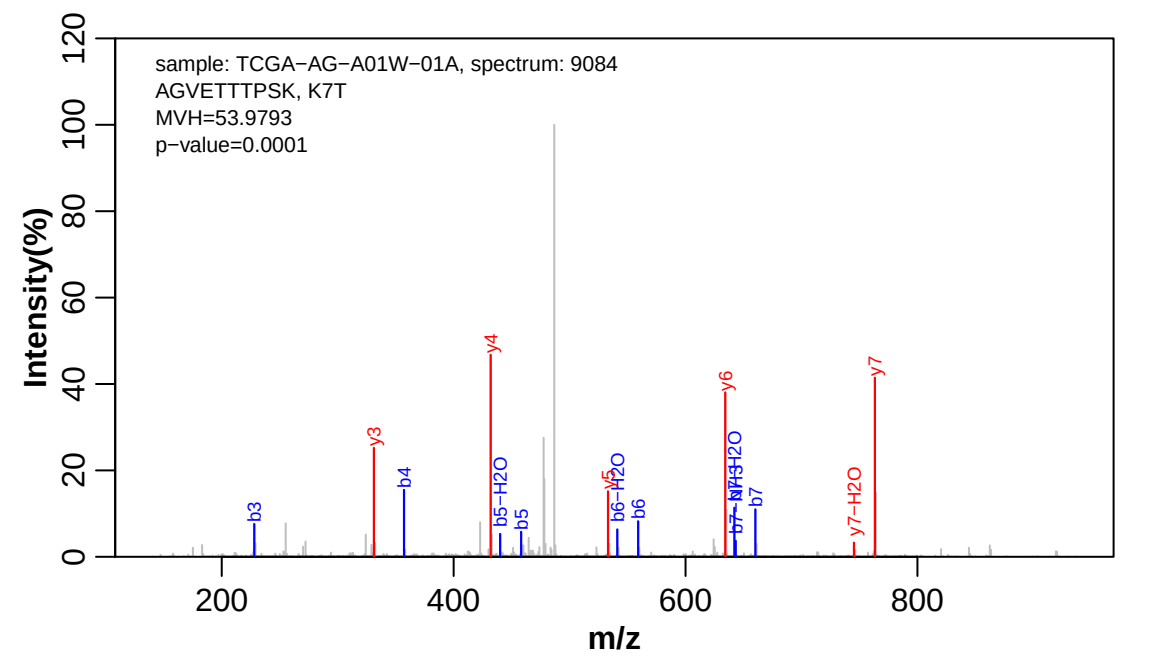

sample: TCGA−AG−A01N−01A, spectrum: 39797
VYGDLLYTPAK, H7Y
MVH=54.9703
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4−H2O
y4
b4
b5−H2O
b5
y5
y6
b6
b7
y9
y10

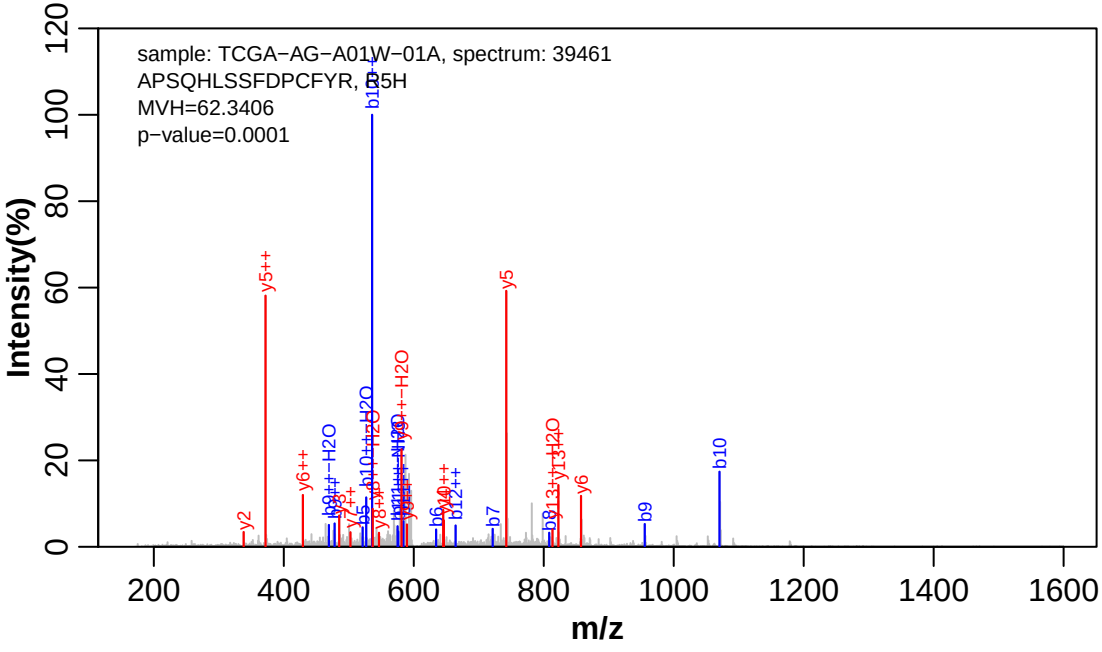

sample: TCGA−AG−A01N−01A, spectrum: 25783
WLLLCNPGLANTLVEK, D11N
MVH=76.0343
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
y4
b4
y5
b5−H2O
b5
y6
y7
b6−NH3
b6
y8
b8−NH3
b9
y10
b10
y11
y12
y12−NH3
b12
y13
b13
y14
b14
b15

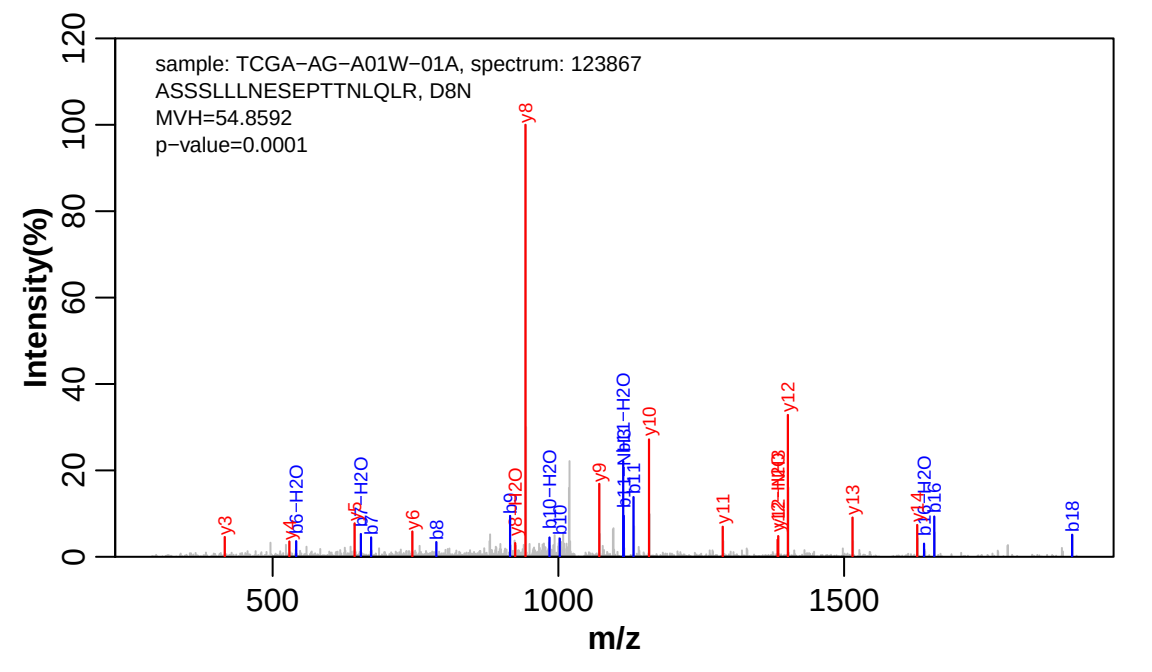

sample: TCGA−AG−A01W−01A, spectrum: 57244
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=24.4684
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
y8++−NH3
b11++
y10−H2O
y15++
b28++
y13−H2O
y15−H2O

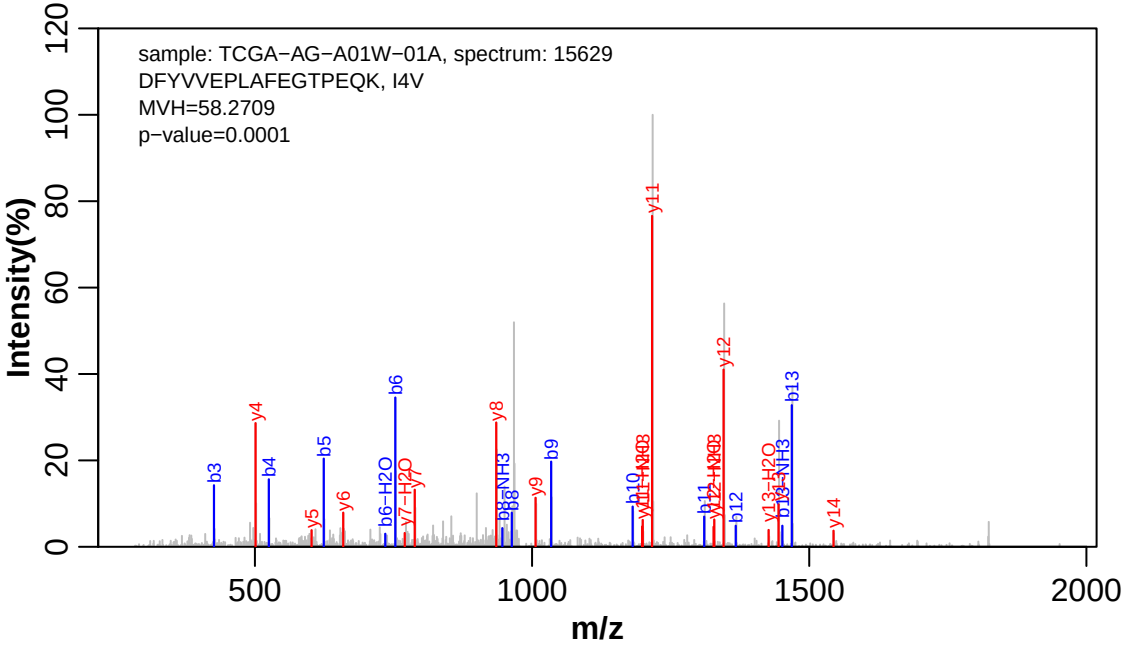

sample: TCGA−AG−A01W−01A, spectrum: 62275
AAAPAPVSEAVSR, C12S
MVH=45.5844
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
b8−NH3
y8
y10

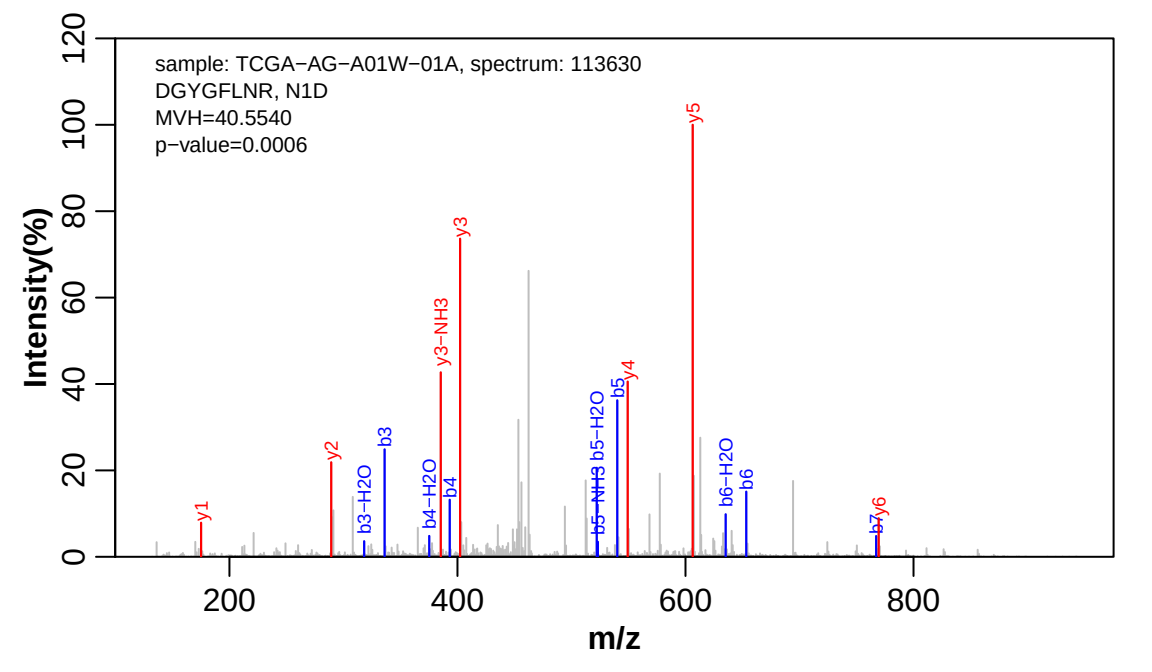

sample: TCGA−AG−A01W−01A, spectrum: 40210
AAPSVTLFPPSSEELQANK, T2A
MVH=60.1039
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8

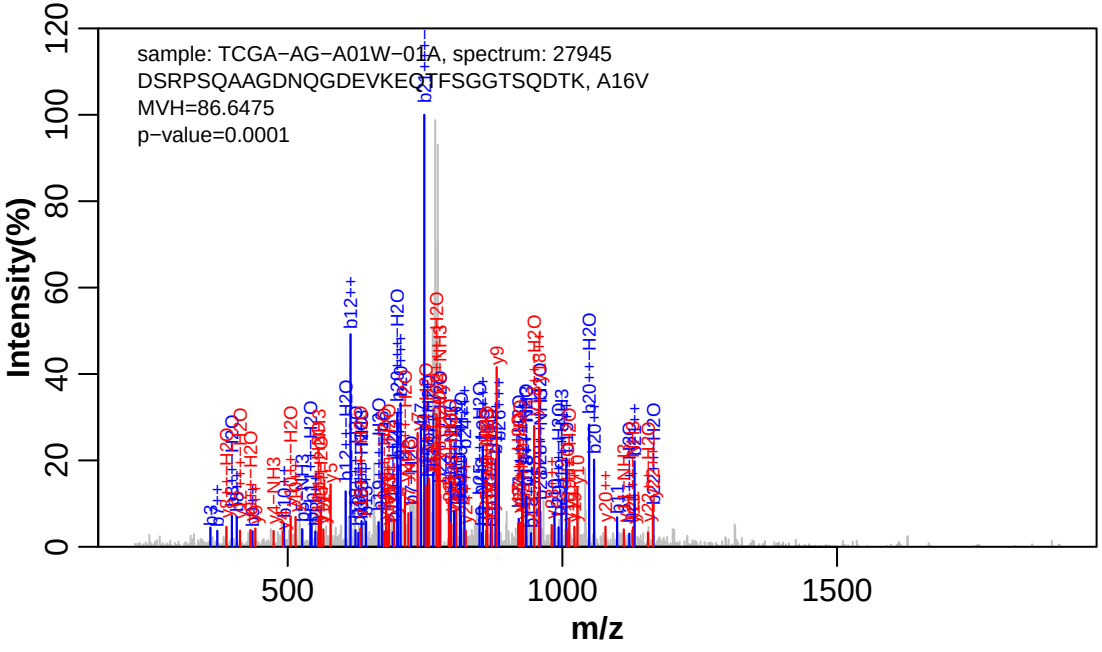

sample: TCGA−AG−A01W−01A, spectrum: 9084
AGVETTTPSK, K7T
MVH=53.9793
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
b6−H2O
y5
b6
y6
b7−NH3−H2O
b7
y7
y7−H2O

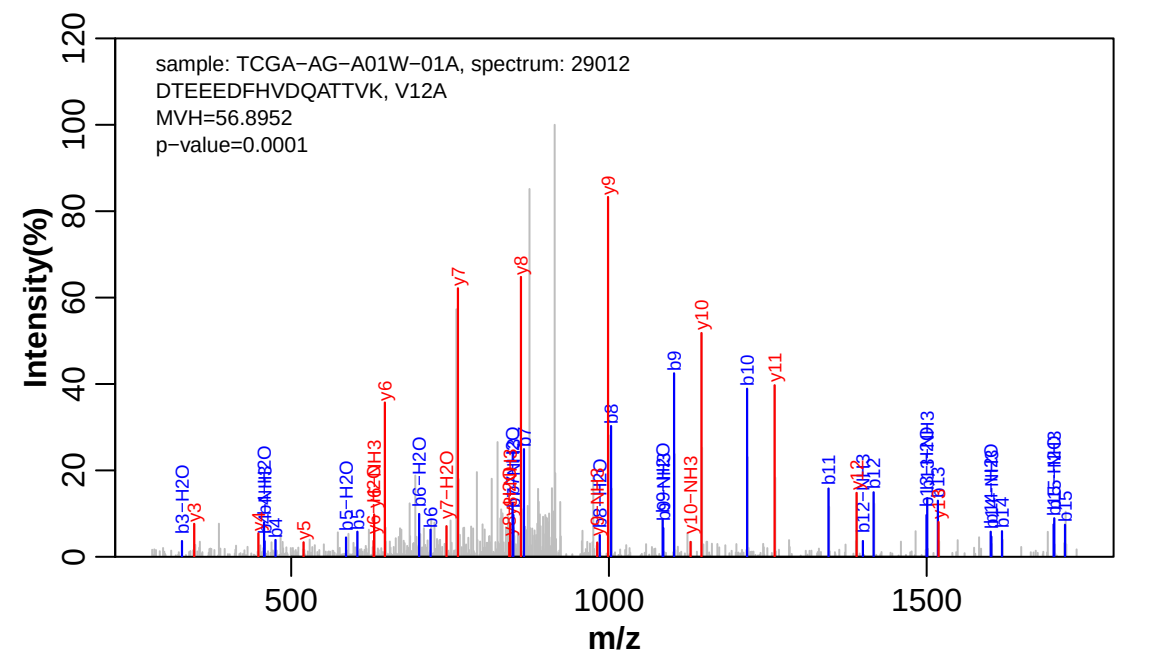

sample: TCGA−AG−A01W−01A, spectrum: 39461
APSQHLSSFDPCFYR, B5H
MVH=62.3406
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5++
b10++
y5
y6++
y2
b10
b9
y6
b7
b12++

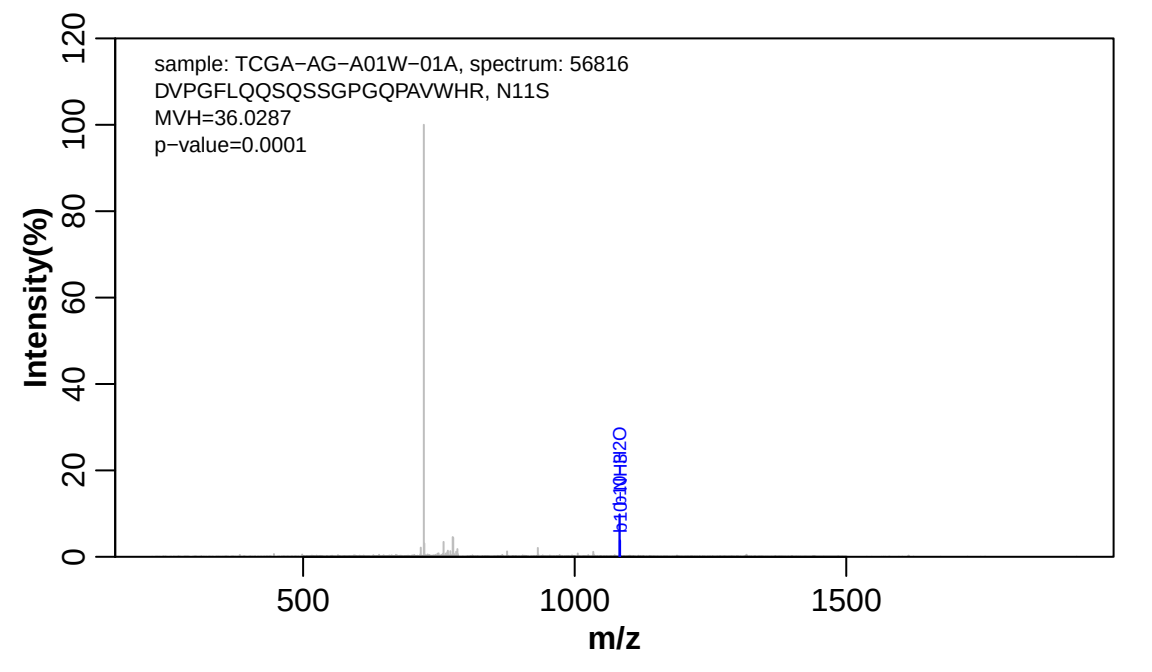

sample: TCGA−AG−A01W−01A, spectrum: 123867
ASSSLLLNESEPTTNLQLR, D8N
MVH=54.8592
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
y4
b6−H2O
y5
b7−H2O
b7
y6
b8
y8
b9
y8−H2O
b10−H2O
b10
y9
b11−NH3
b11−H2O
b11
y10
y11
y12−H2O
y12−NH3
y12
y13
b14
b15−H2O
b16
b18

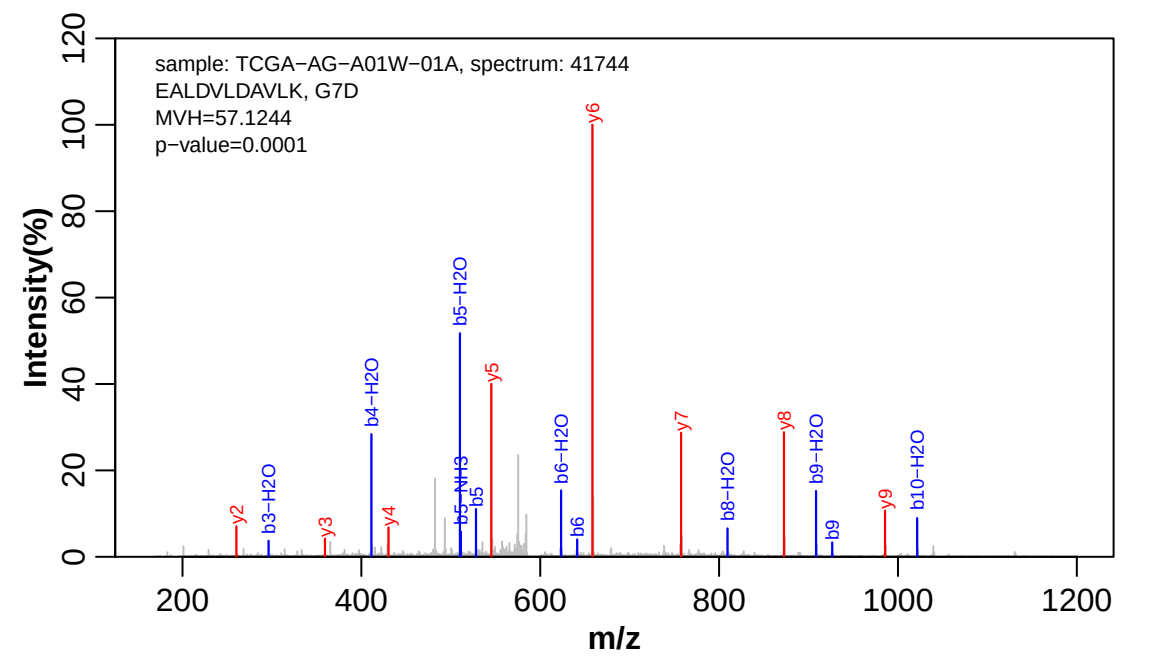

sample: TCGA−AG−A01W−01A, spectrum: 15629
DFYVVEPLAFEGTPEQK, I4V
MVH=58.2709
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b3
y4
b4
y5
b5
y6
b6
b6−H2O
y7
y7−H2O
y8
b8−NH3
b8
y9
b9
y11
b10
y11−H2O
y11−NH3
b11
y12−H2O
y12−NH3
b12
y12
b13
y13−H2O
b13−NH3
y14

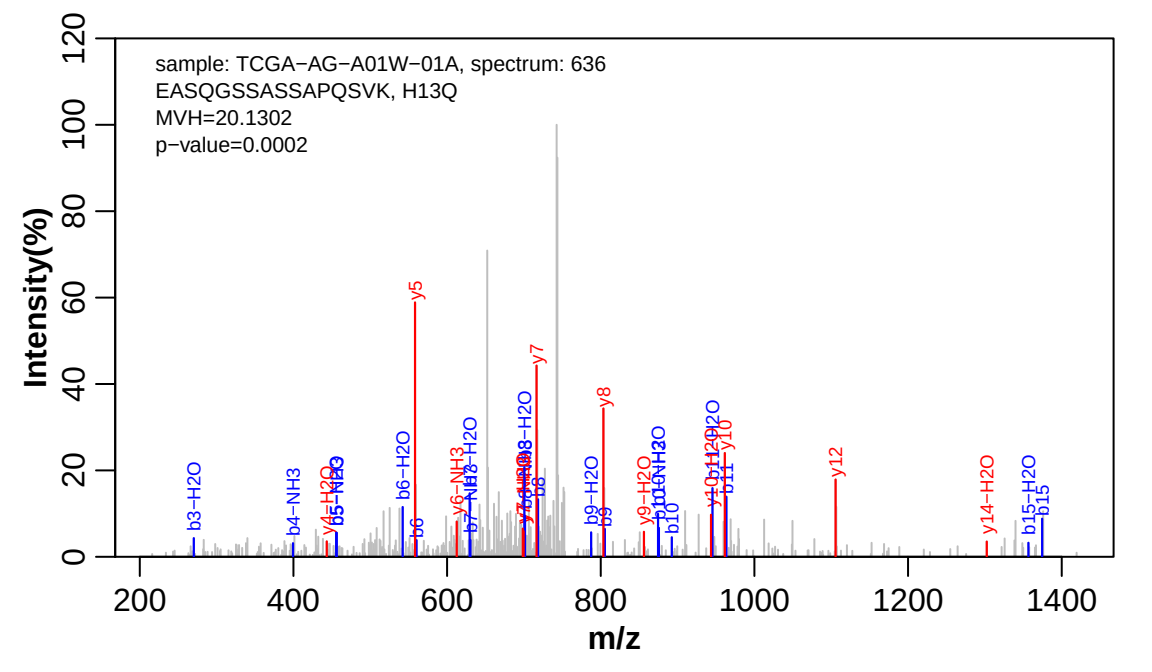

sample: TCGA−AG−A01W−01A, spectrum: 113630
DGYGFLNR, N1D
MVH=40.5540
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3
b3−H2O
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

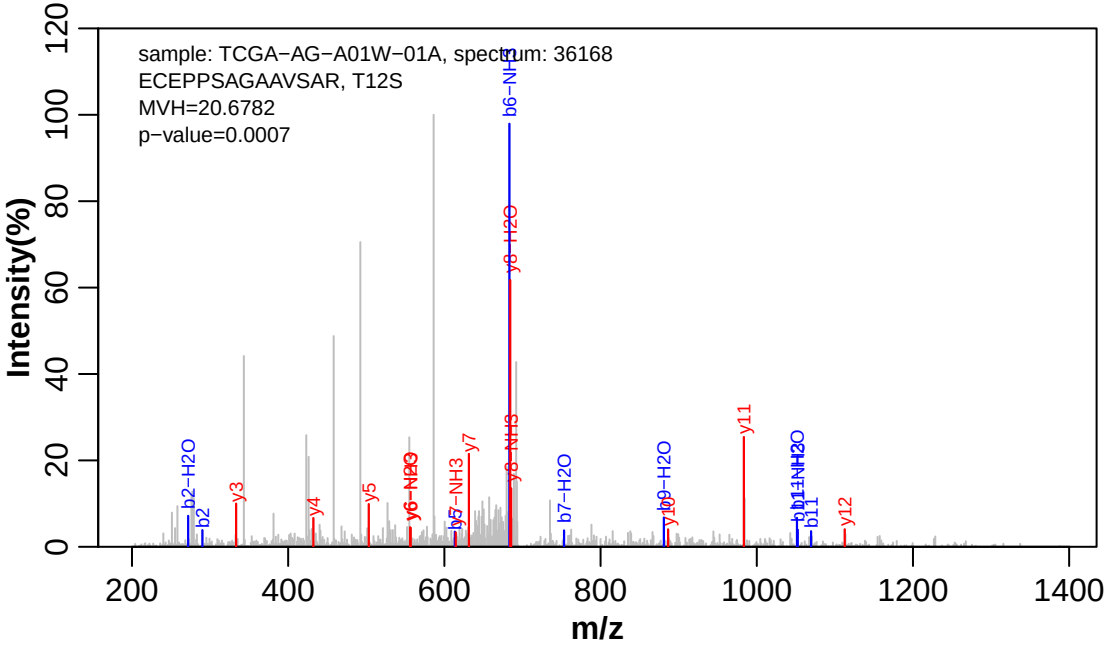

sample: TCGA−AG−A01W−01A, spectrum: 27945
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=86.6475
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

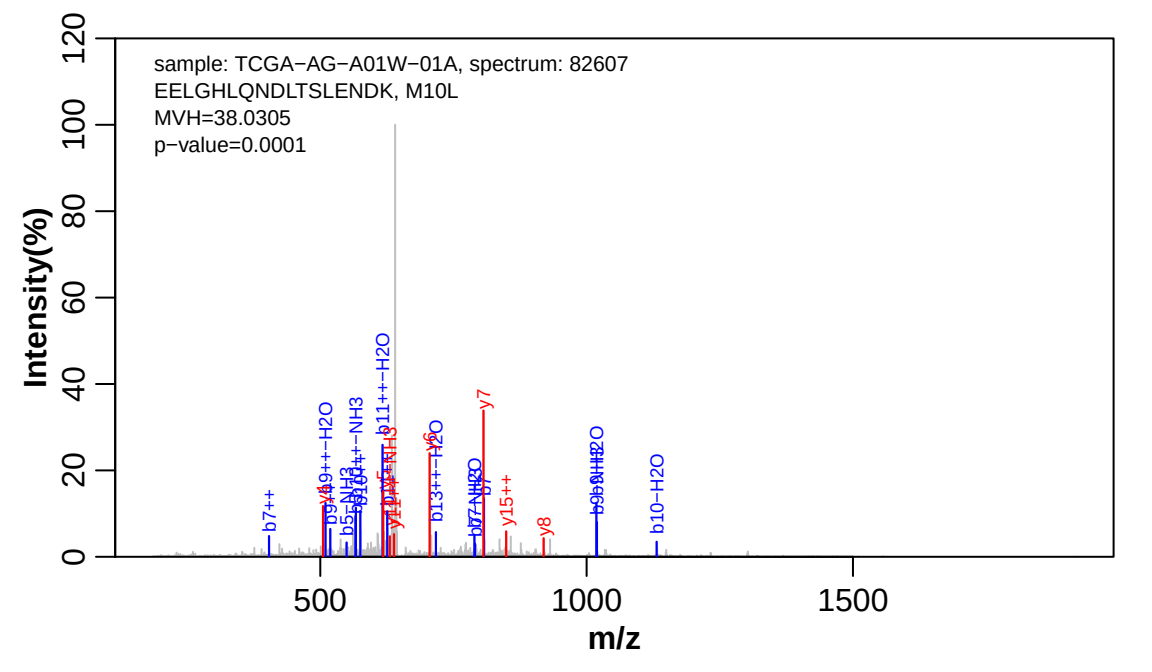

sample: TCGA−AG−A01W−01A, spectrum: 29012
DTEEEDFHVDQATTVK, V12A
MVH=56.8952
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y3
y5
b5−H2O
b5
y6−H2O−NH3
y6
b6−H2O
b6
y7−H2O
y7
y8
b8
y9
b9
y10−NH3
y10
b10
y11
b11
b12−NH3
b12
b13
b14
b15

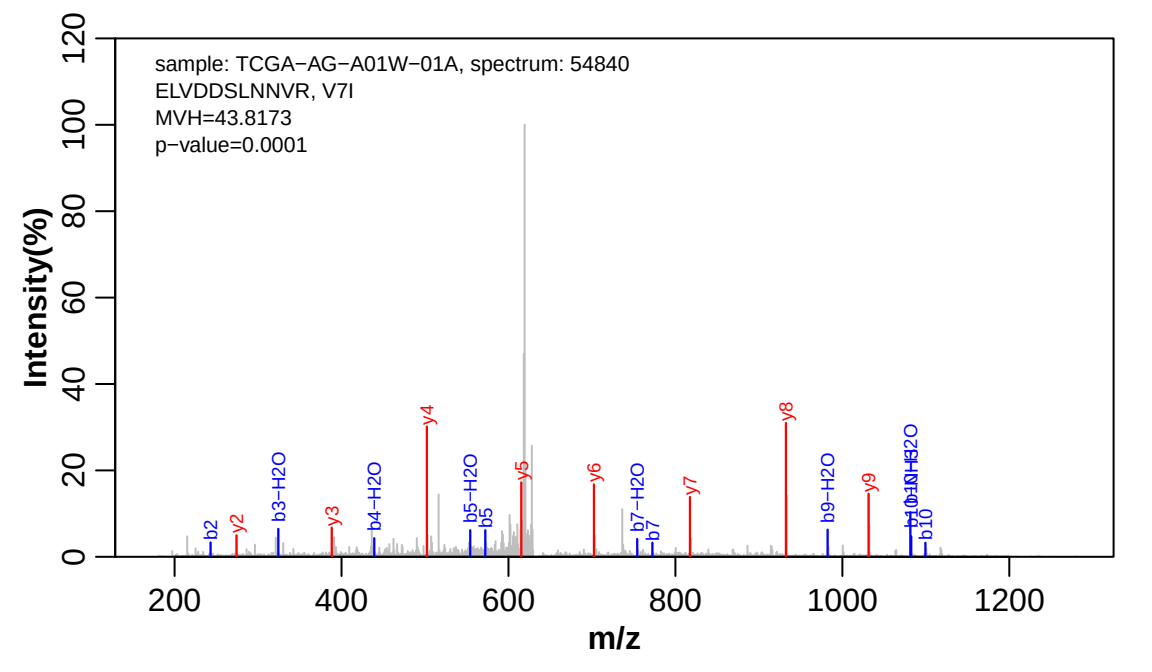

sample: TCGA−AG−A01W−01A, spectrum: 56816
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=36.0287
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

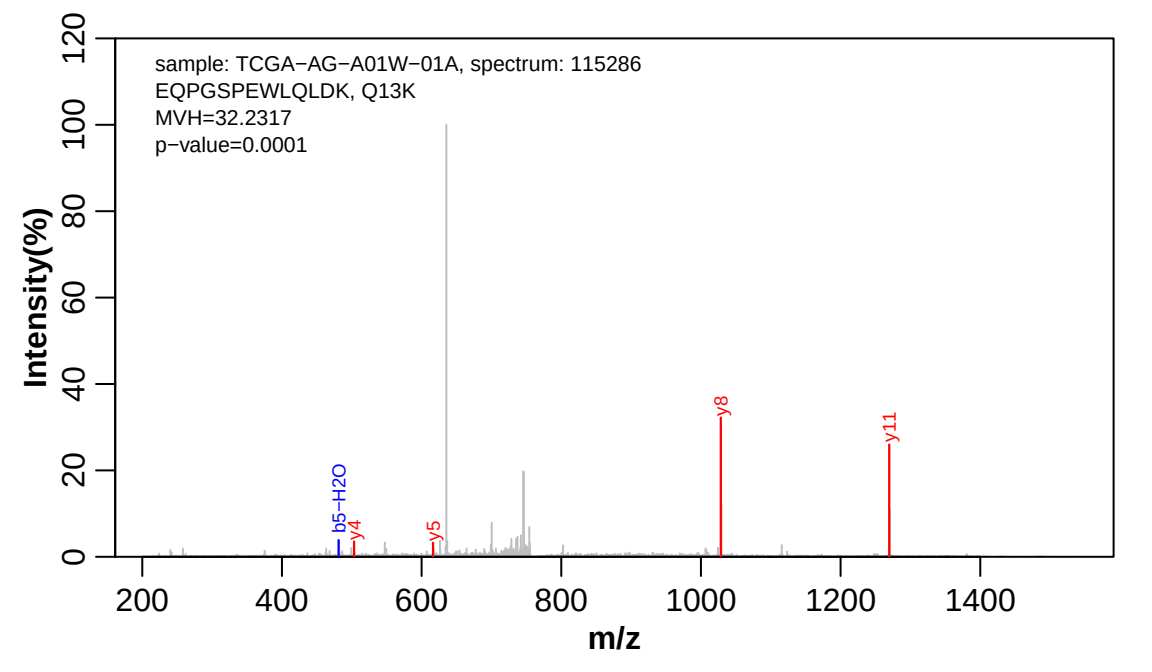

sample: TCGA−AG−A01W−01A, spectrum: 41744
EALDVLDAVLK, G7D
MVH=57.1244
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6−H2O
b6
y6
y7
b8−H2O
y8
b9−H2O
b9
y9
b10−H2O

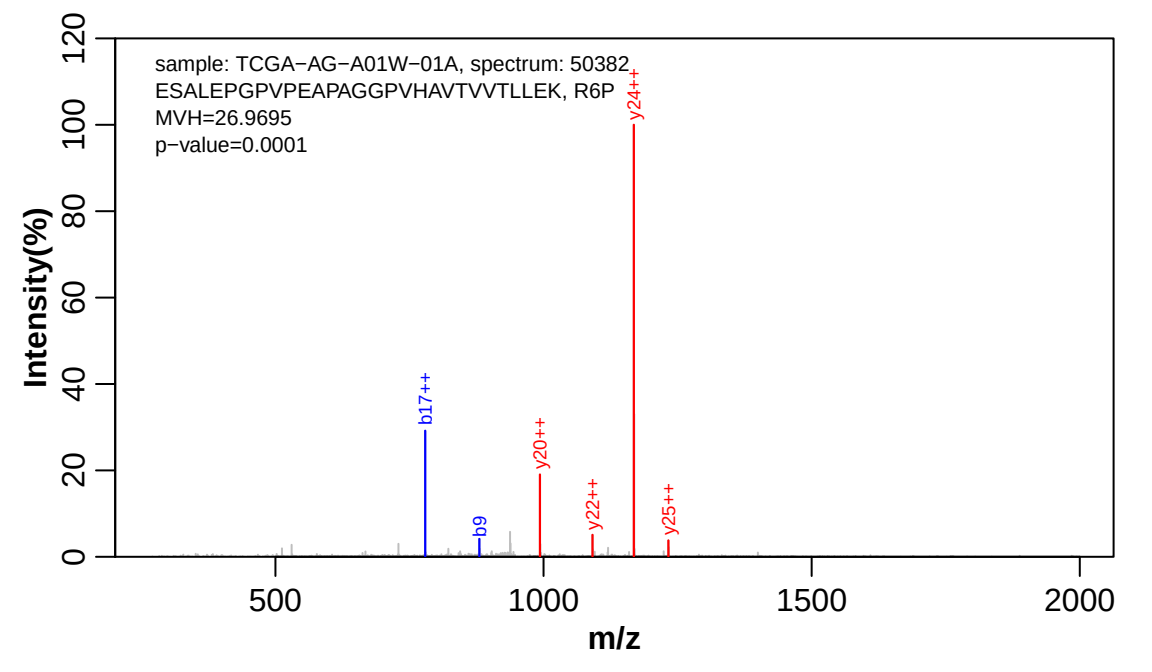

sample: TCGA−AG−A01W−01A, spectrum: 636
EASQGSSASSAPQSVK, H13Q
MVH=20.1302
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b4−NH3
b6−H2O
b6
y5
y6−NH3
y7
y8
b8
b9−H2O
b9
y9−H2O
b10
y10
y12
y14−H2O
b15−H2O
b15

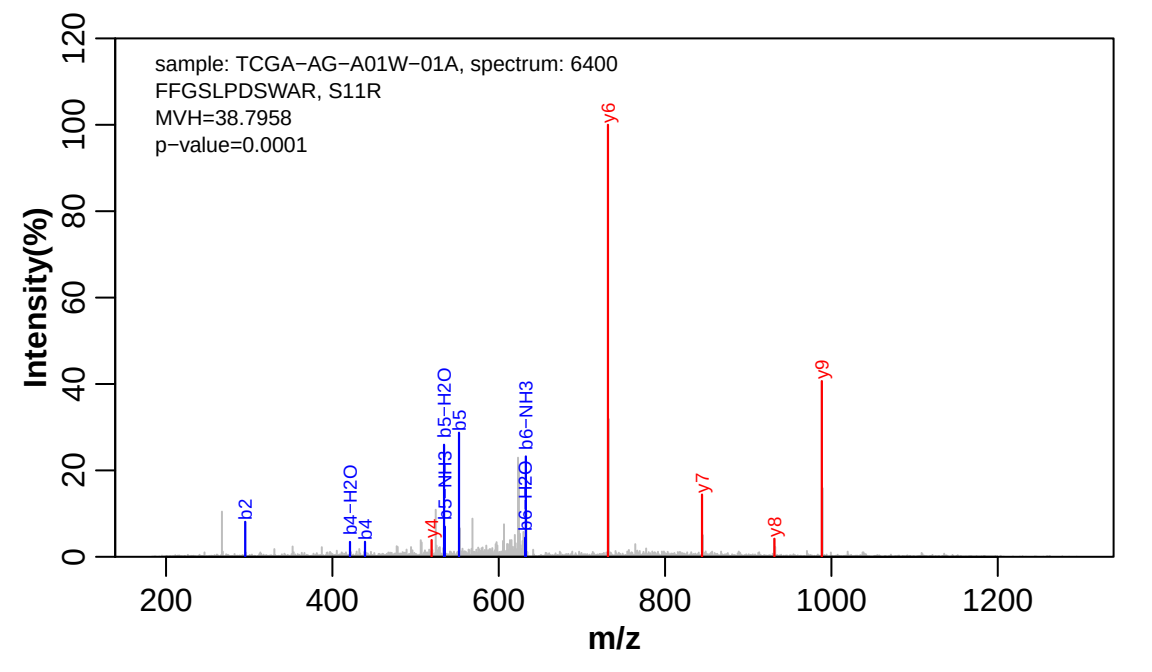

sample: TCGA−AG−A01W−01A, spectrum: 36168
ECEPPSAGAAVSAR, T12S
MVH=20.6782
p−value=0.0007
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b6−NH3
y8−H2O
y8−NH3
y11
b2−H2O
b2
y3
y4
y5
y6−H2O
y6−NH3
y7
b7−NH3
b7−H2O
y10−H2O
y10
b11−H2O
b11−NH3
b11
y12

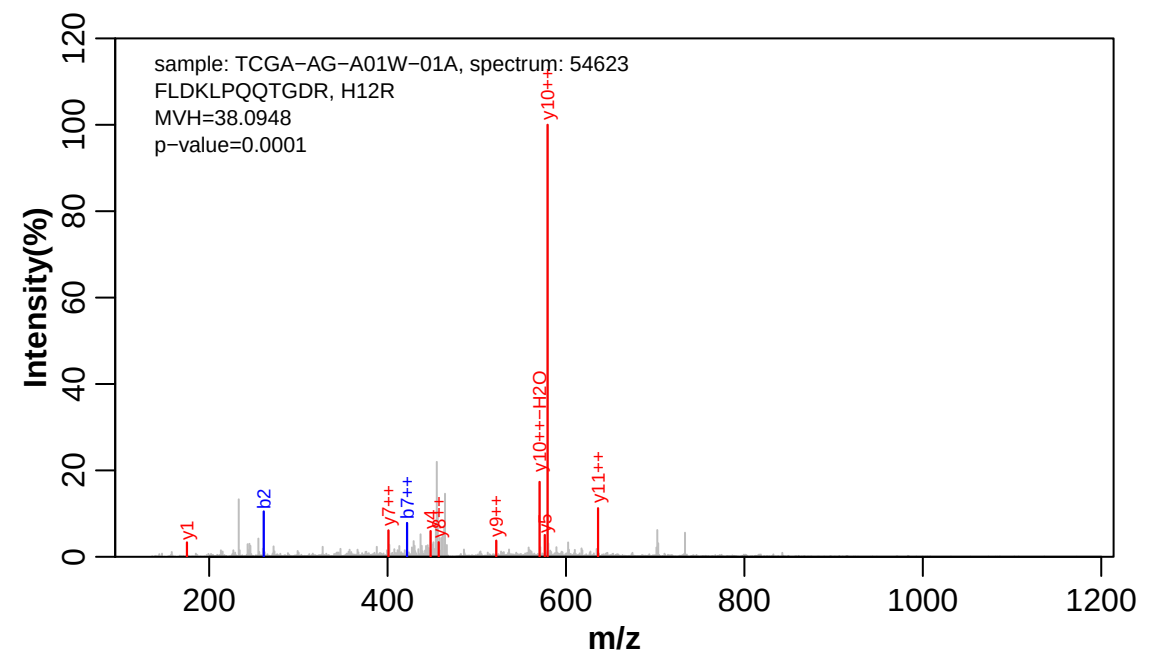

sample: TCGA−AG−A01W−01A, spectrum: 82607
EELGHLQNDLTSLENDK, M10L
MVH=38.0305
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
b9++−H2O
b9++−NH3
b5−NH3
b11++−H2O
b11++−NH3
y6
b13++−H2O
y7
b7−NH3
y15++
y8
b10−H2O

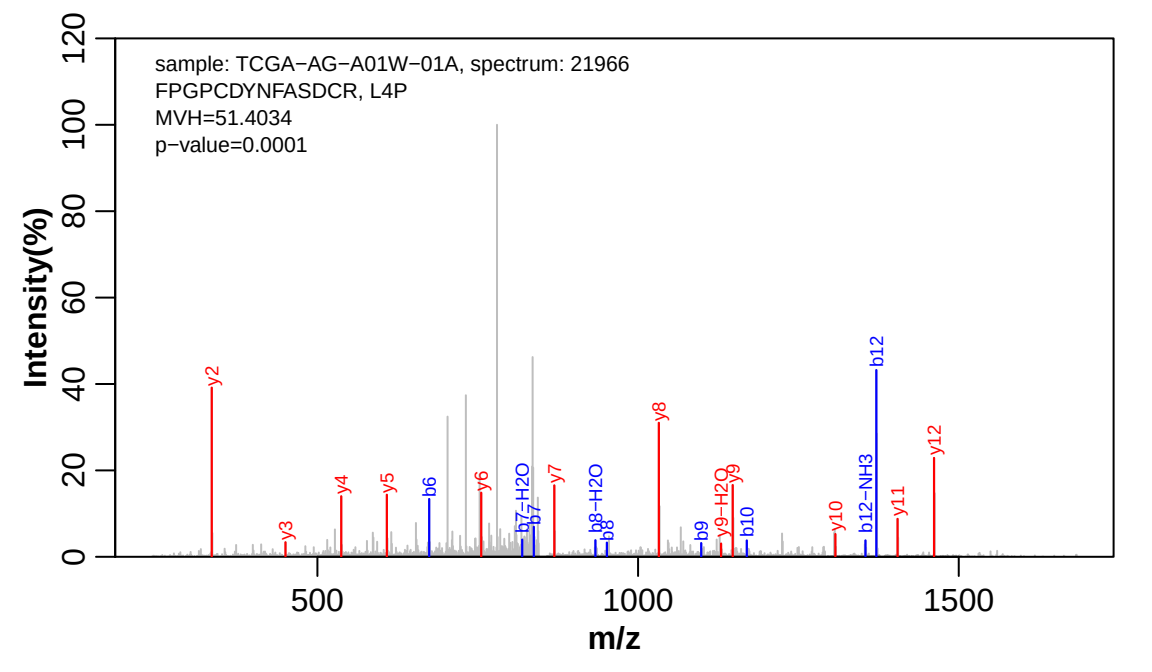

sample: TCGA−AG−A01W−01A, spectrum: 54840
ELVDDSLNNVR, V7I
MVH=43.8173
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
y3
b4−H2O
y4
b5−H2O
b5
y5
y6
b7−H2O
b7
y7
y8
b9−H2O
y9
b10
b10−H2O

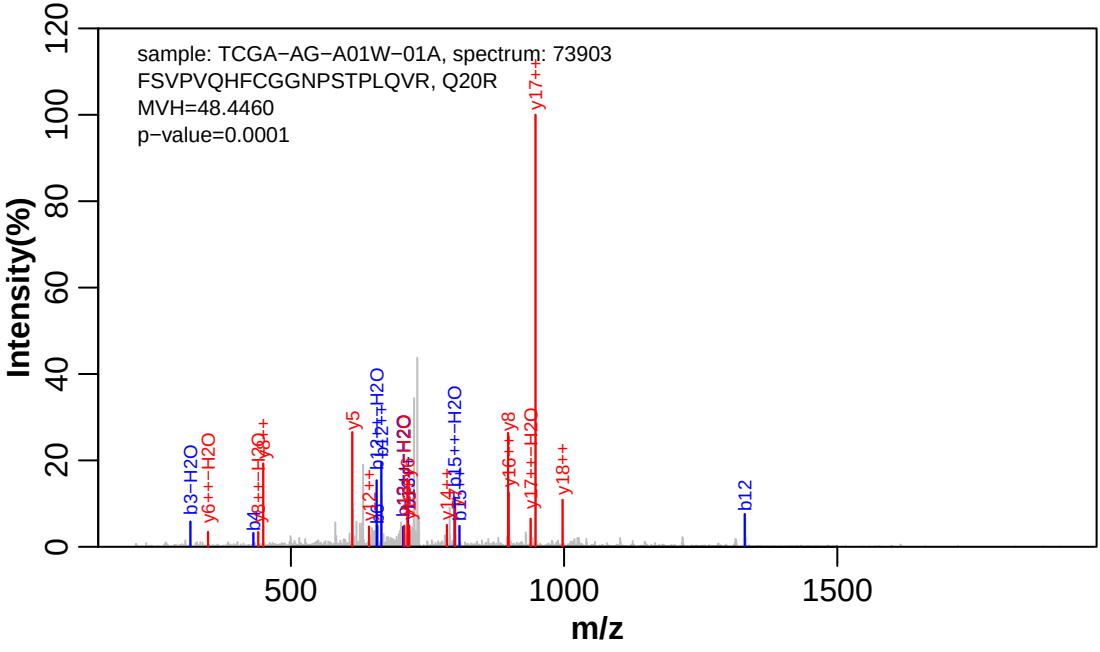

sample: TCGA−AG−A01W−01A, spectrum: 115286
EQPGSPEWLQLDK, Q13K
MVH=32.2317
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

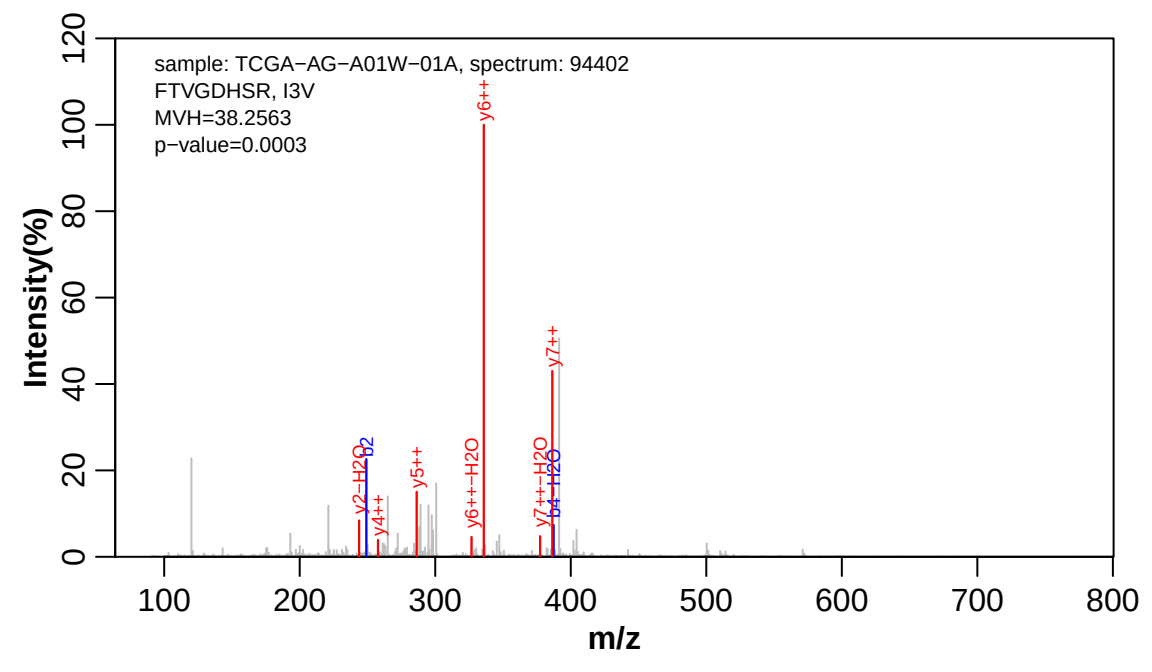

sample: TCGA−AG−A01W−01A, spectrum: 50382
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=26.9695
p−value=0.0001
b17++
b9
y20++
y22++
y24++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

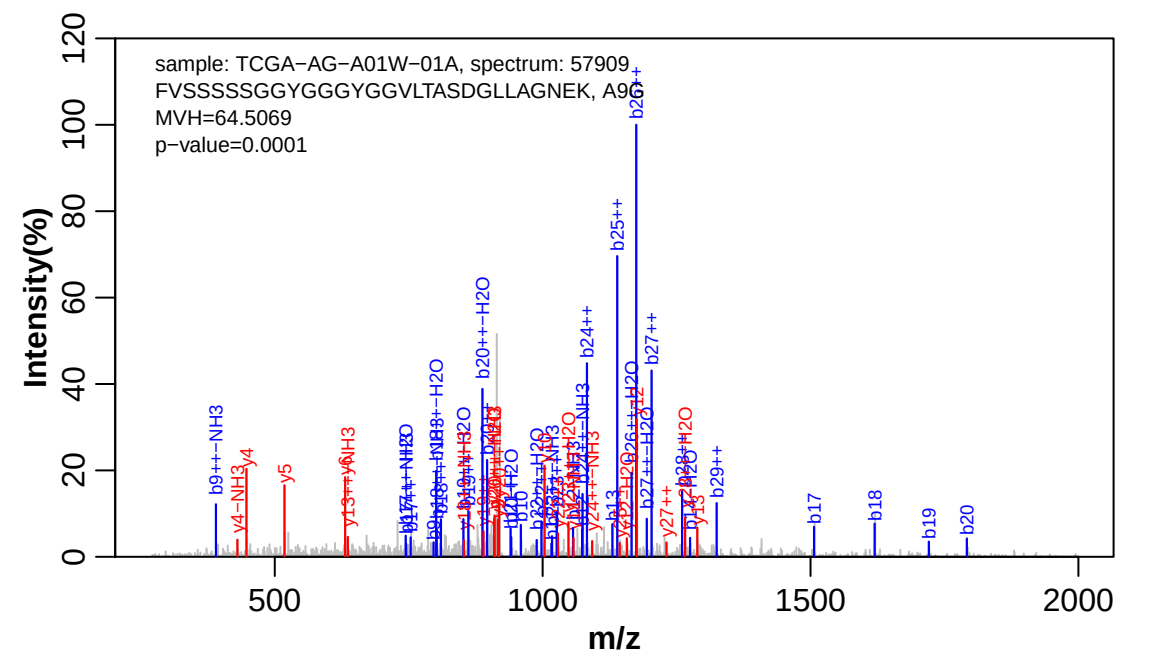

sample: TCGA−AG−A01W−01A, spectrum: 6400
FFGSLPDSWAR, S11R
MVH=38.7958
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−H2O
b6−NH3
y6
y7
y8
y9

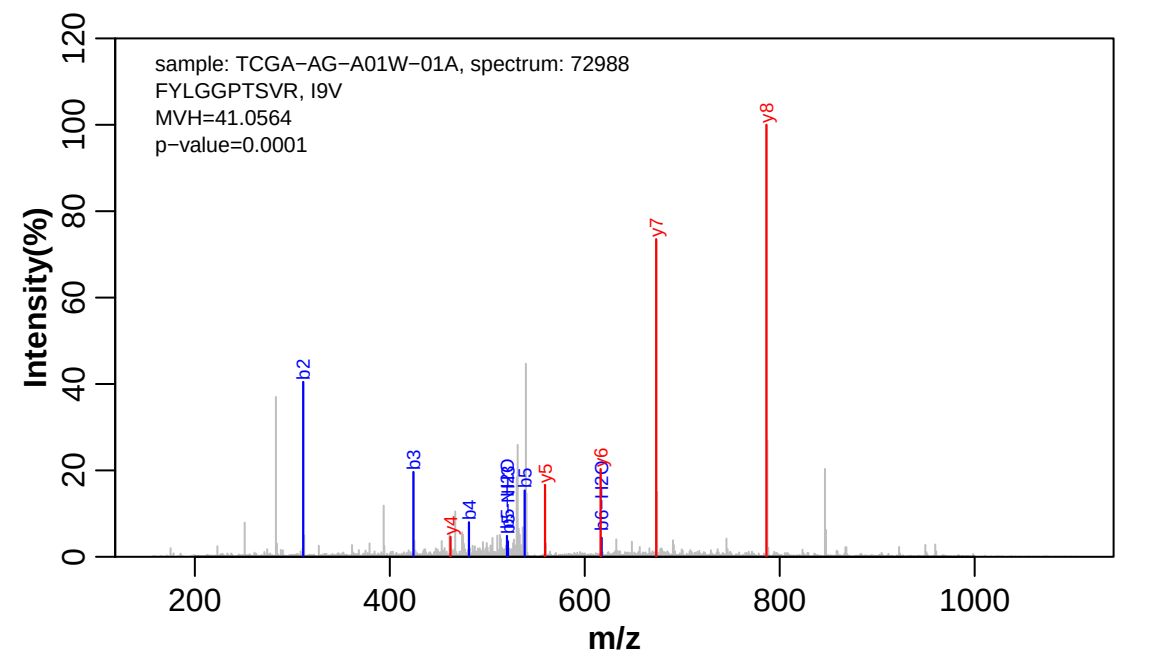

sample: TCGA−AG−A01W−01A, spectrum: 54623
FLDKLPQQTGDR, H12R
MVH=38.0948
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
b2
y1
y7++
b7++
y8++
y9++
y5
0
20
40
60
80
100
120
200
400
600
800
1000
1200

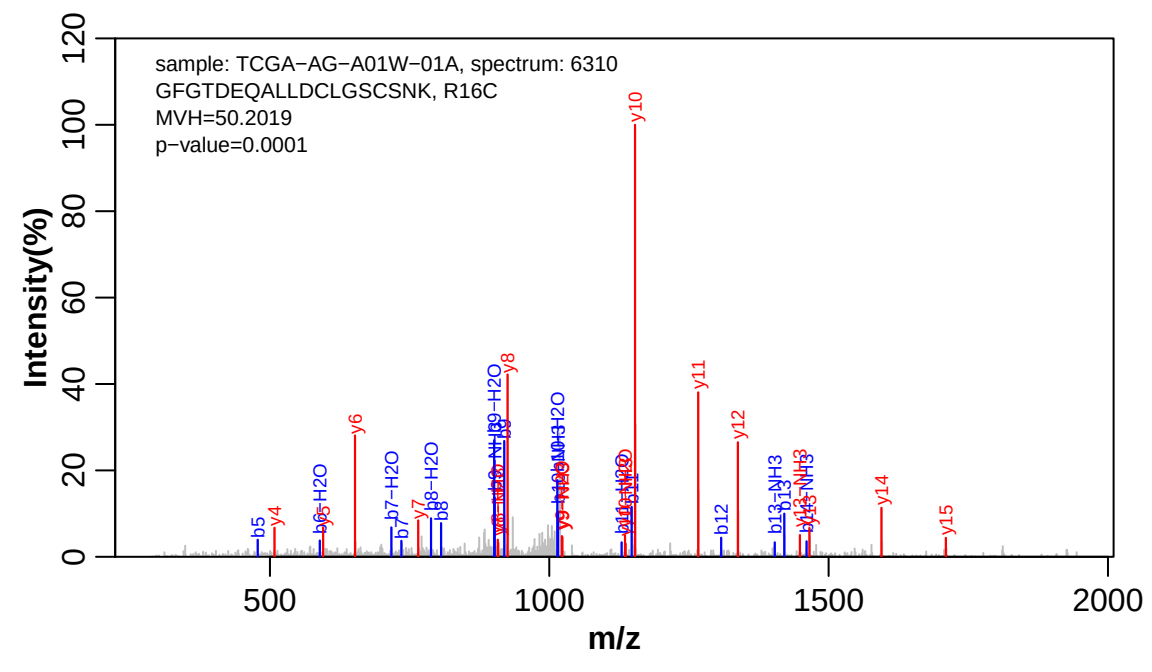

sample: TCGA−AG−A01W−01A, spectrum: 21966
FPGPCDYNFASDCR, L4P
MVH=51.4034
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y3
y4
y5
b6
y6
b7−H2O
b7
y7
b8−H2O
b8
y8
b9
y9−H2O
y9
b10
y10
b12−NH3
b12
y11
y12

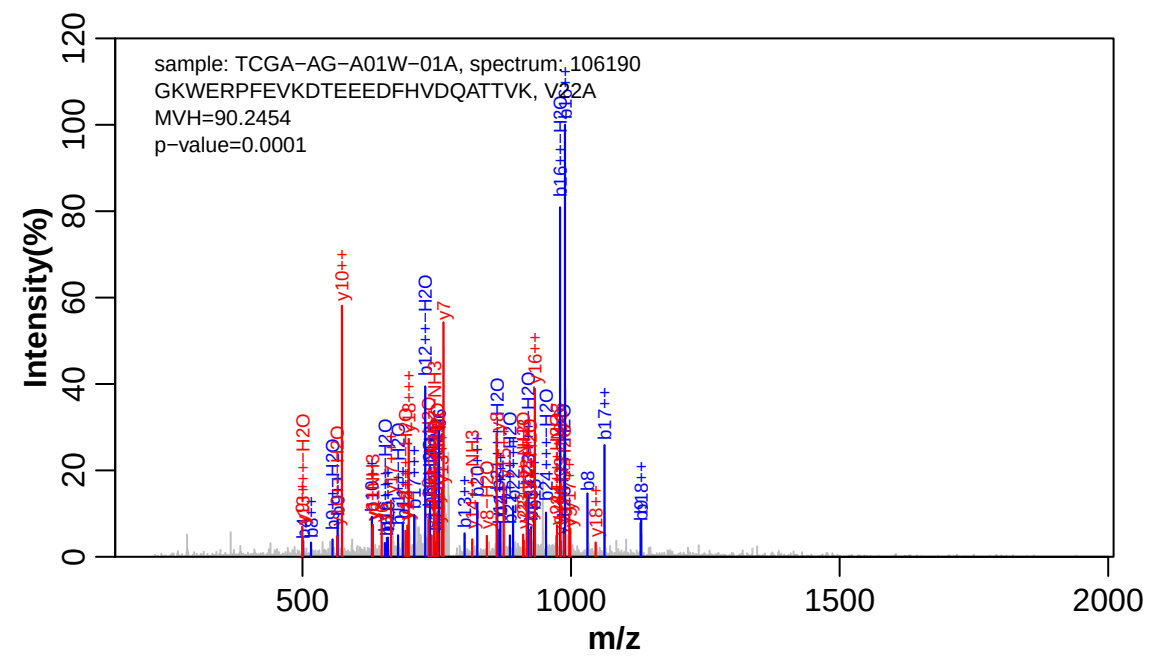

sample: TCGA−AG−A01W−01A, spectrum: 73903
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=48.4460
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3−H2O
y6++−H2O
y8++−H2O
y8++
y5
y12++
b12++−H2O
b12++
y15++−H2O
y16++
y8
y17++−H2O
y17++
y18++
b12

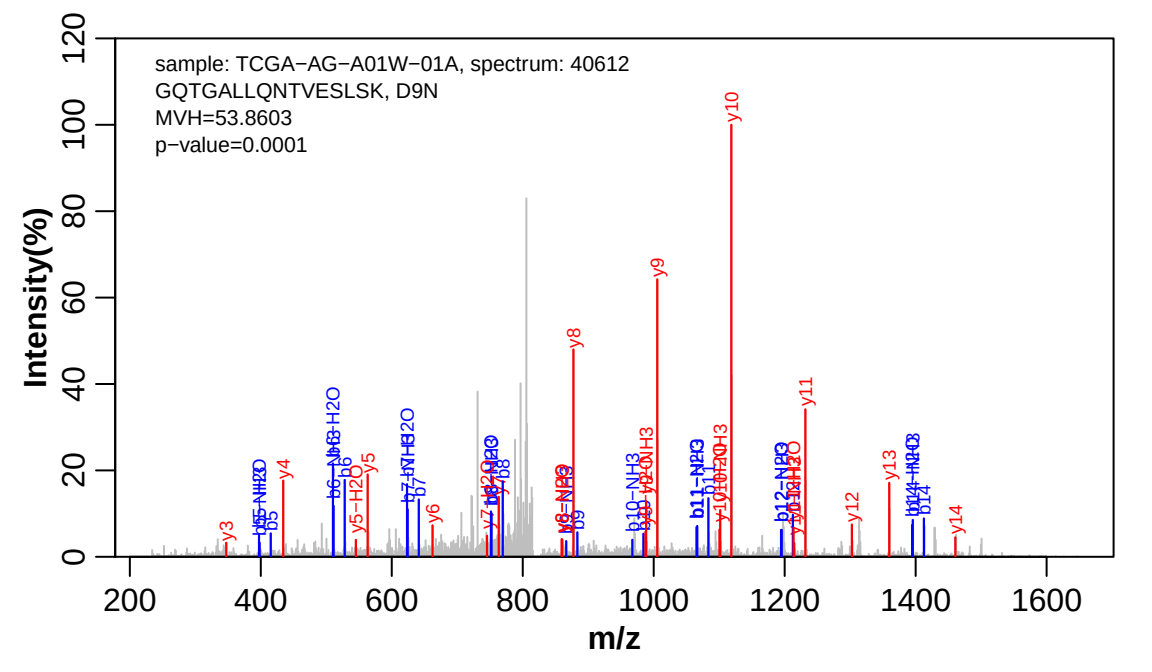

sample: TCGA−AG−A01W−01A, spectrum: 94402
FTVGDHSR, I3V
MVH=38.2563
p−value=0.0003
y6++
y7++
b2
y2−H2O
y4++
y5++
y6++−H2O
y7++−H2O
b4−H2O
Intensity(%)
0
20
40
60
80
100
120
100
200
300
400
500
600
700
800
m/z

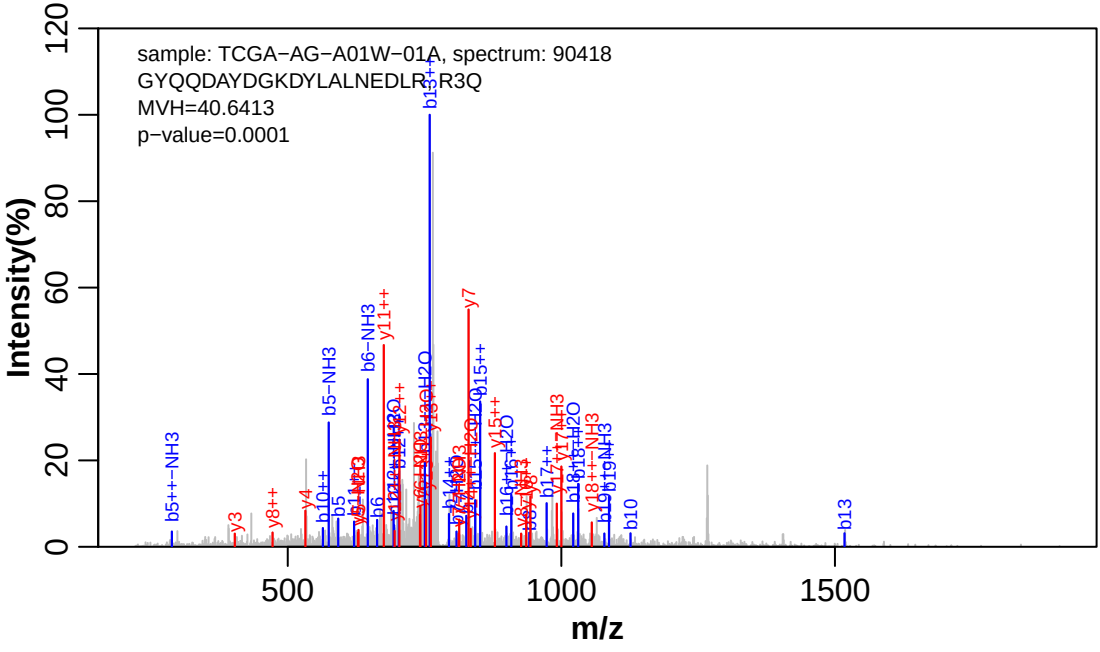

sample: TCGA−AG−A01W−01A, spectrum: 57909
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=64.5069
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4−NH3
y4
y5
y13++−NH3
b20++−H2O
b24++
b25++
b26++
b27++
b29++
b17
b18
b19
b20

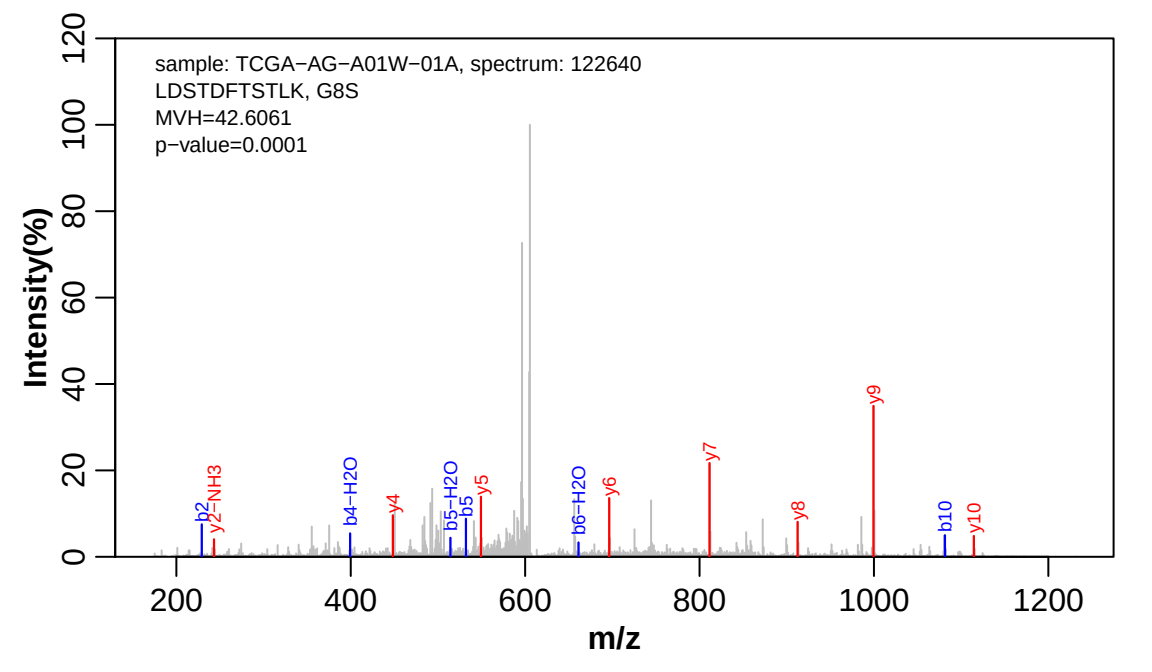

sample: TCGA−AG−A01W−01A, spectrum: 72988
FYLGGPTSVR, I9V
MVH=41.0564
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y4
b4
b5
y5
y7
y8

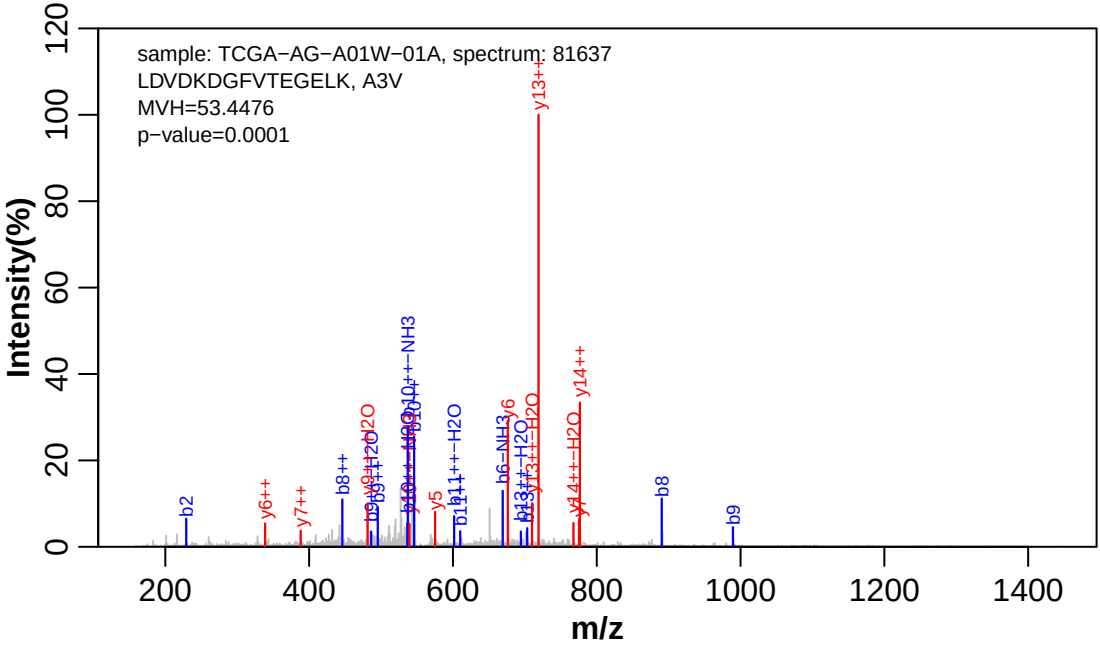

sample: TCGA−AG−A01W−01A, spectrum: 6310
GFGTDEQALLDCLGSCSNK, R16C
MVH=50.2019
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y11
y8
y6
y12
y14
y15
b5
y4
b6−H2O
b7−H2O
b8−H2O
y7
b12
b13−NH3
y13−NH3

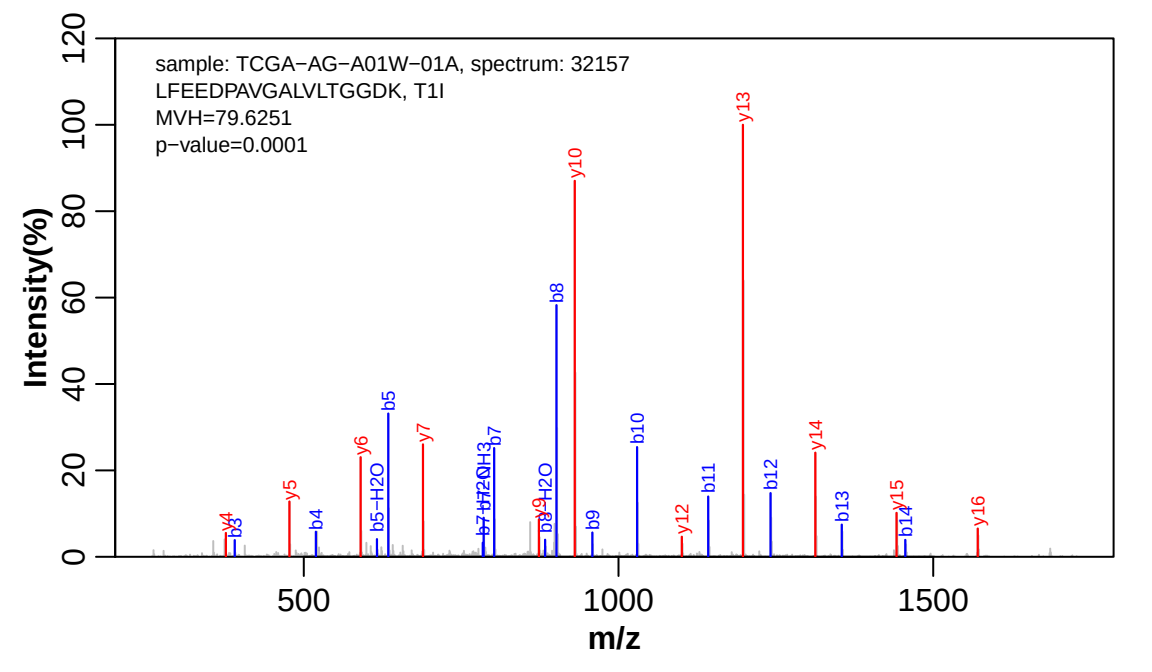

sample: TCGA−AG−A01W−01A, spectrum: 106190
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=90.2454
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
y7
b12++−H2O
b16++−H2O
b17++
y16++
b18++
b8
y18++
b8++
b4++−H2O

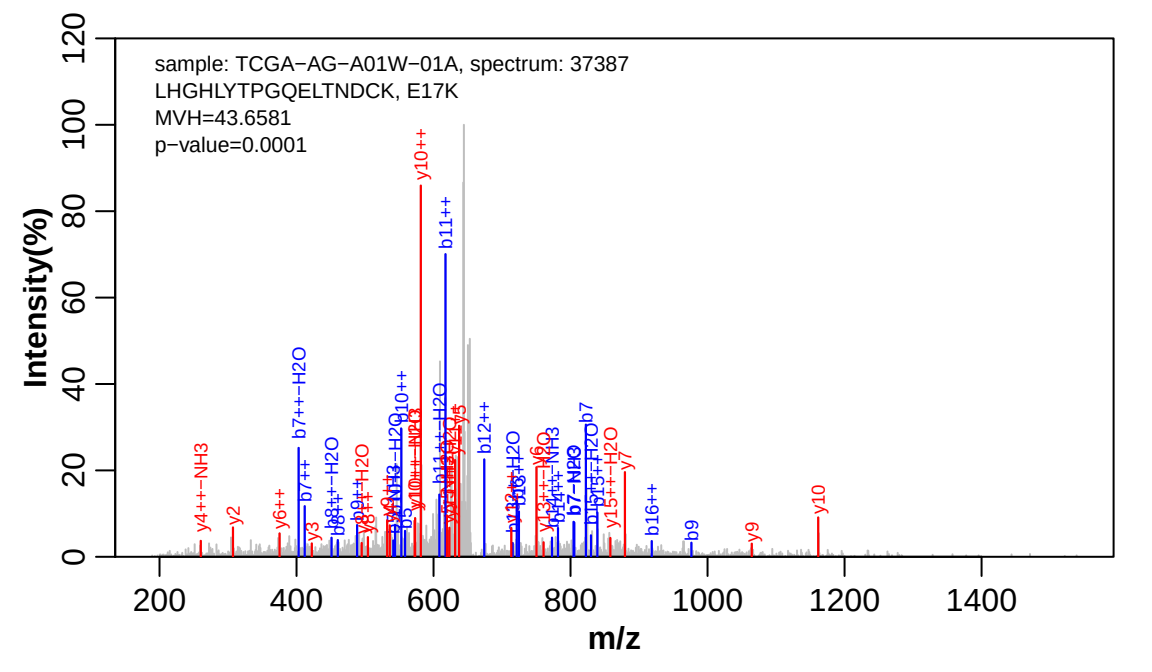

sample: TCGA−AG−A01W−01A, spectrum: 40612
GQTGALLQNTVESLSK, D9N
MVH=53.8603
p−value=0.0001
Intensity(%)
m/z
y10
y9
y8
y11
y13
y12
y14
y4
y5
y6
y3

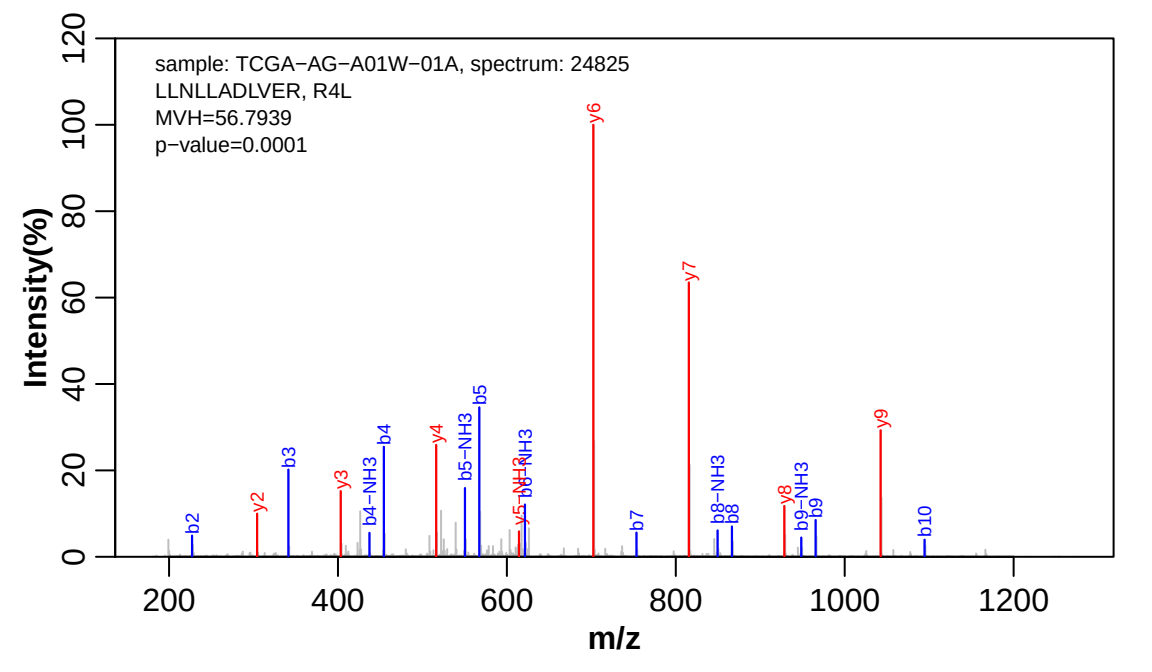

sample: TCGA−AG−A01W−01A, spectrum: 90418
GYQQDAYDGKDYLALNEDLRSR3Q
MVH=40.6413
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b15++
b5++−NH3
y3
y8++
y4
b10++
b5
b5−NH3
b6
b6−NH3
y11++
y7
y15++
y15++−H2O
b16++−H2O
y17++−NH3
b16++−NH3
b17++
y18++−NH3
b19++−NH3
b10
b13

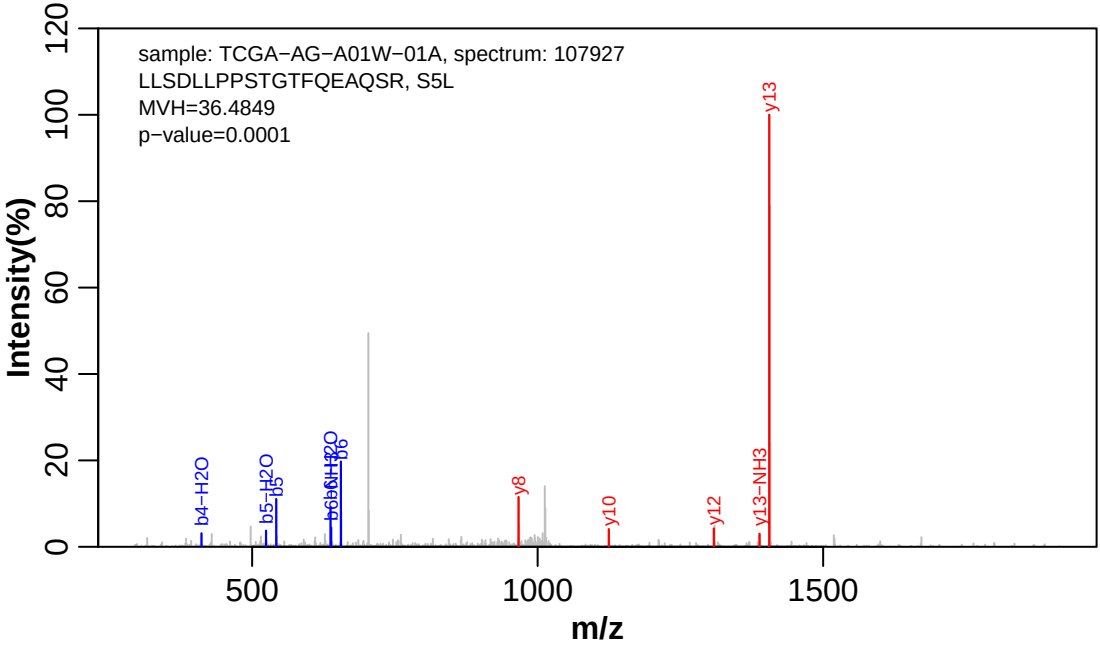

sample: TCGA−AG−A01W−01A, spectrum: 122640
LDSTDFTSTLK, G8S
MVH=42.6061
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
y7
y8
y9
b10
y10

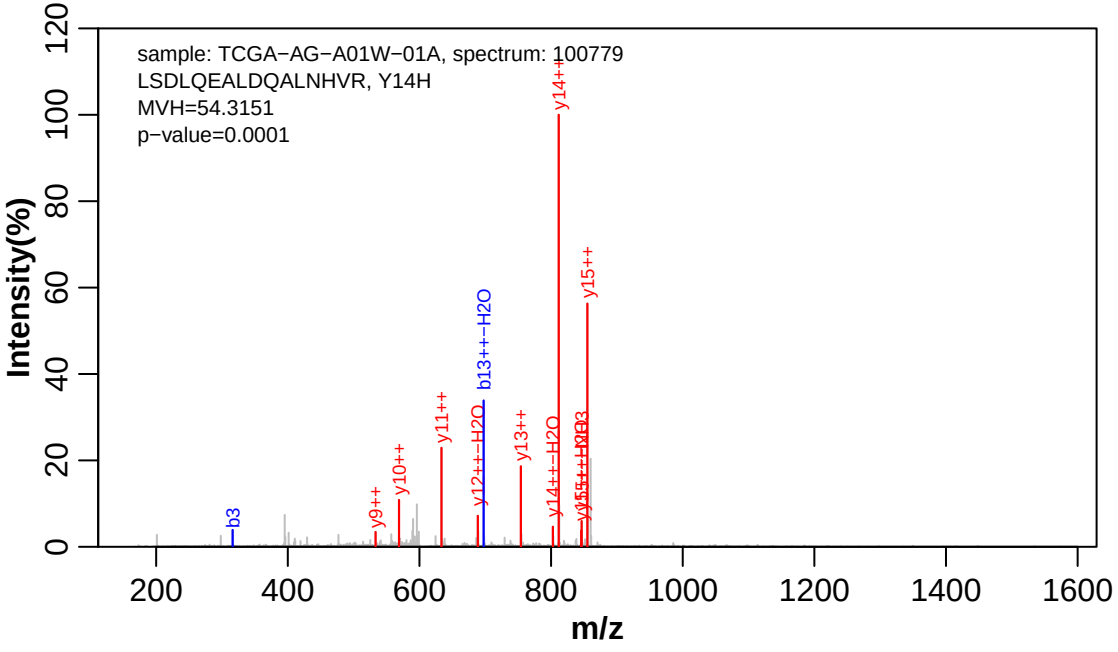

sample: TCGA−AG−A01W−01A, spectrum: 81637
LDVDKDGFVTEGELK, A3V
MVH=53.4476
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y6++
y7++
b8++
y13++
y5
b11++−H2O
b6−NH3
y6
y14++−H2O
y14++
b8
b9

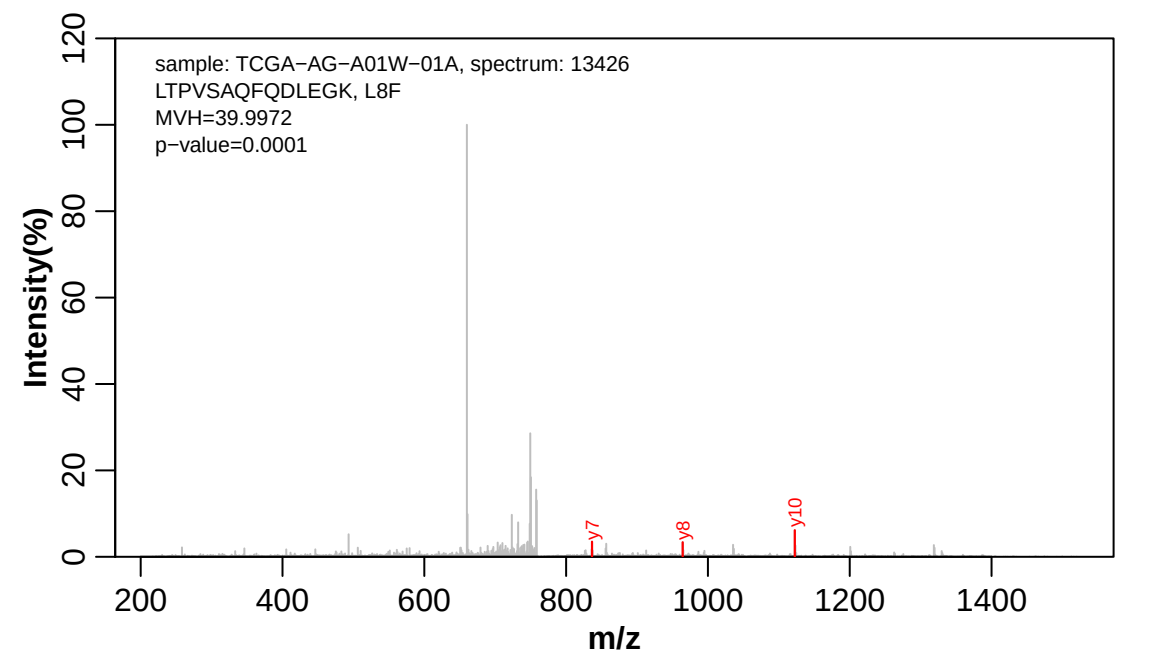

sample: TCGA−AG−A01W−01A, spectrum: 32157
LFEEDPAVGALVLTGGDK, T1I
MVH=79.6251
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
b3
y5
b4
y6
b5−H2O
b5
y7
b7−H2O−NH3
b7
b8
y9
b9−H2O
b9
y10
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

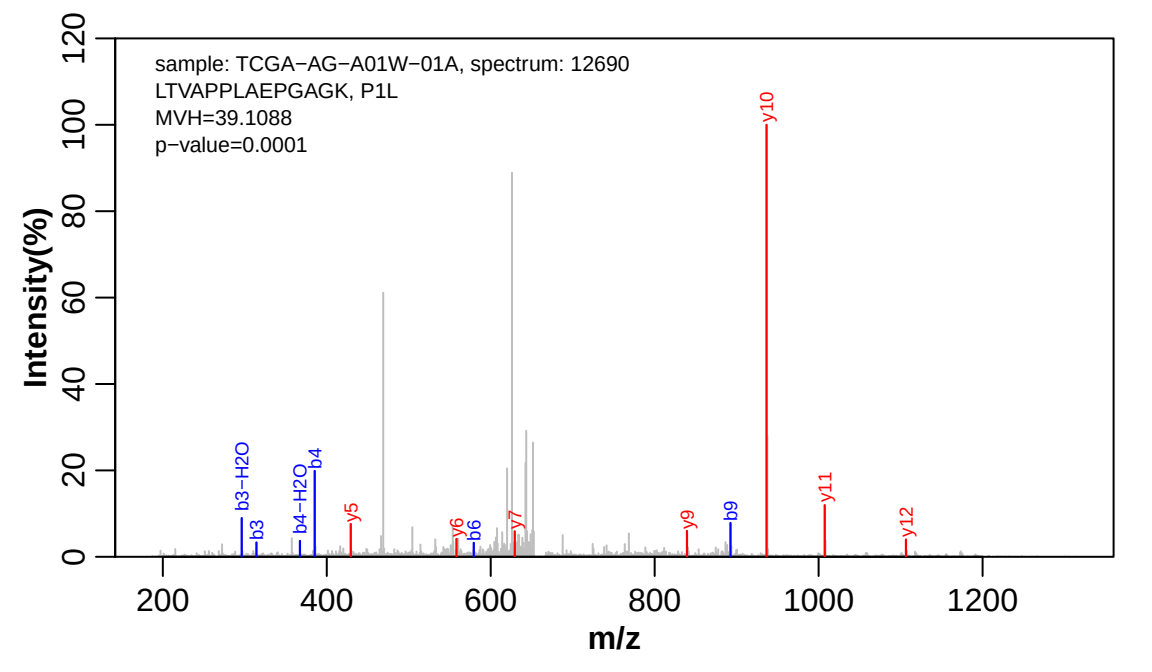

sample: TCGA−AG−A01W−01A, spectrum: 37387
LHGHLYTPGQELTNDCK, E17K
MVH=43.6581
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10++
b11++
b7++−H2O
y4++−NH3
y2
b7++
y6++
y3
b8++−H2O
y8++−H2O
b12++
y7
y15++−H2O
b16++
b9
y9
y10

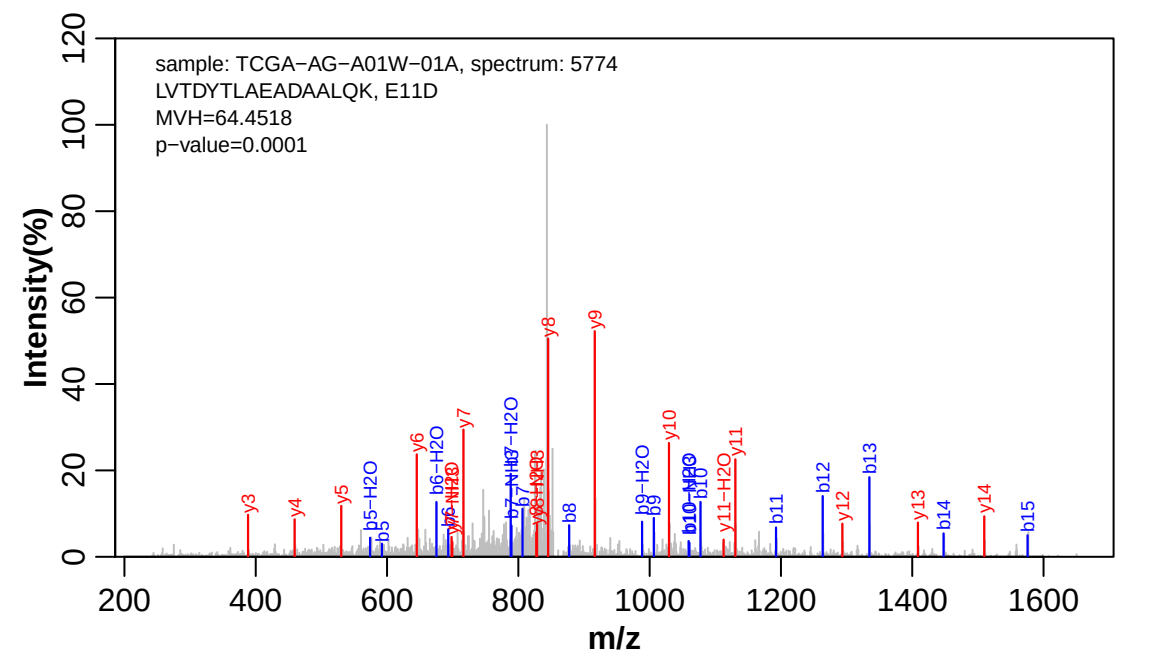

sample: TCGA−AG−A01W−01A, spectrum: 24825
LLNLLADLVER, R4L
MVH=56.7939
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
y8
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
b9−NH3
b9
b10

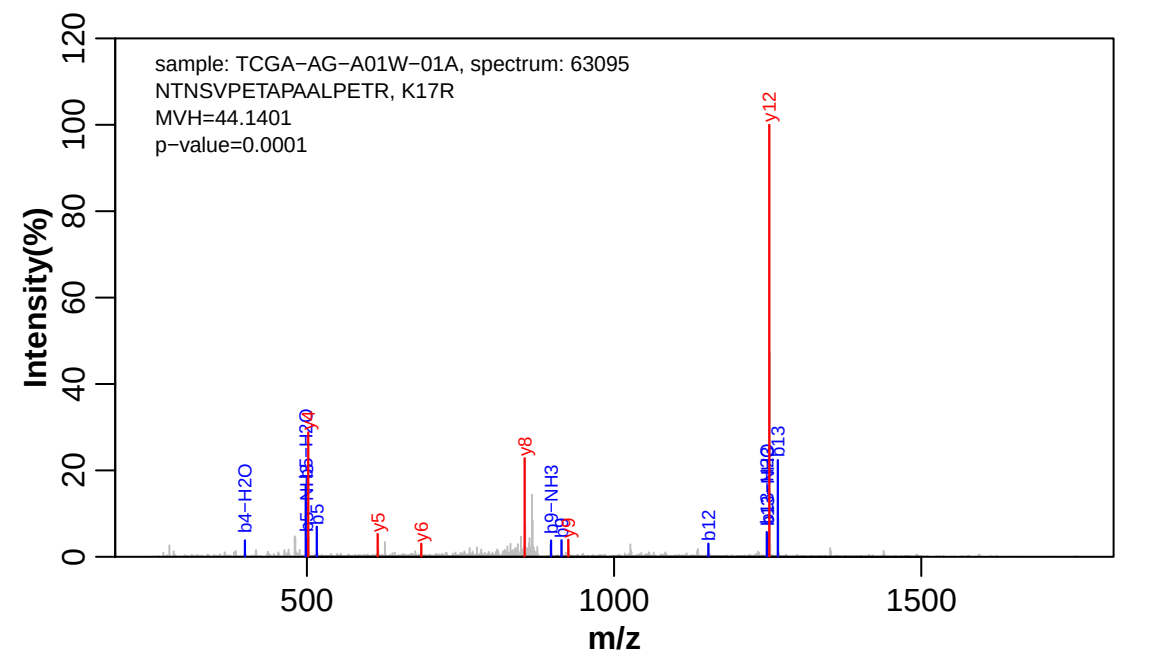

sample: TCGA−AG−A01W−01A, spectrum: 107927
LLSDLLPPSTGTFQEAQSR, S5L
MVH=36.4849
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
b5−H2O
b5
b6
y8
y10
y12
y13−NH3
y13

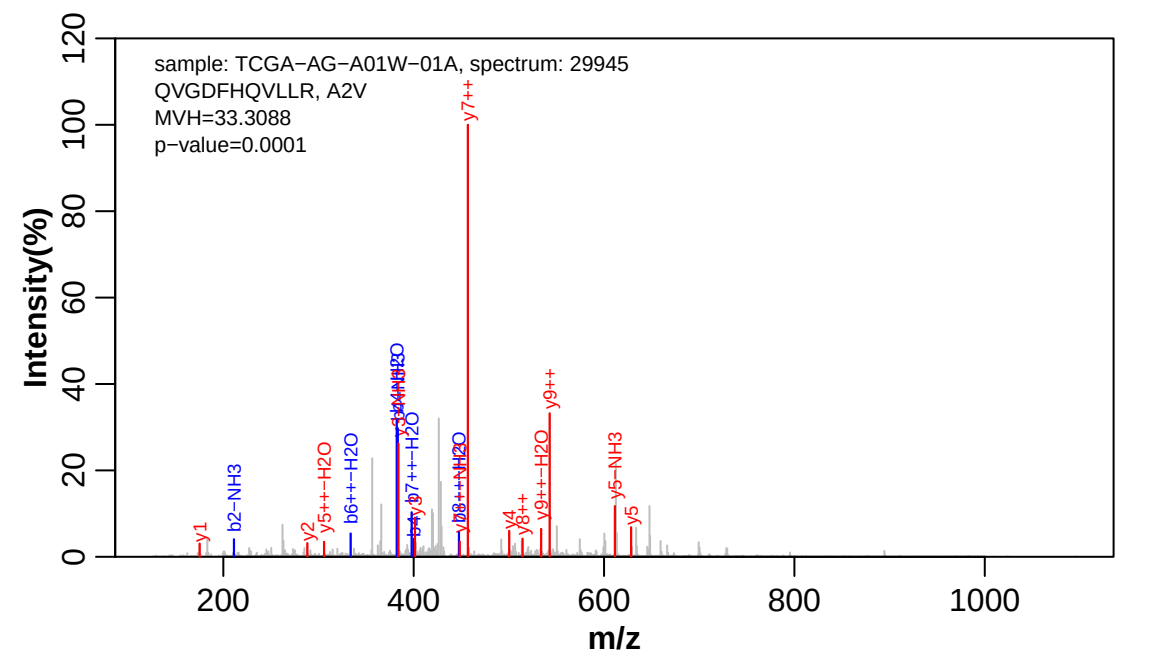

sample: TCGA−AG−A01W−01A, spectrum: 100779
LSDLQEALDQALNHVR, Y14H
MVH=54.3151
p−value=0.0001
Intensity(%)
m/z
b3
y9++
y10++
y11++
b13++−H2O
y12++−H2O
y13++
y14++−H2O
y14++
y15++

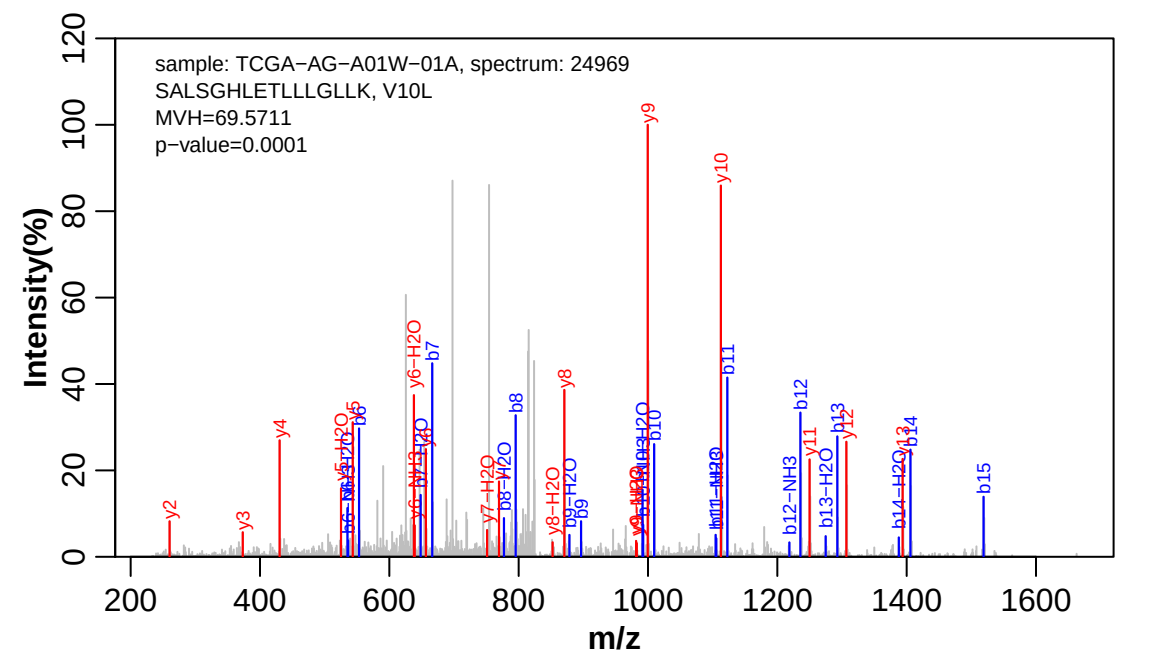

sample: TCGA−AG−A01W−01A, spectrum: 13426
LTPVSAQFQDLEGK, L8F
MVH=39.9972
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y7
y8
y10

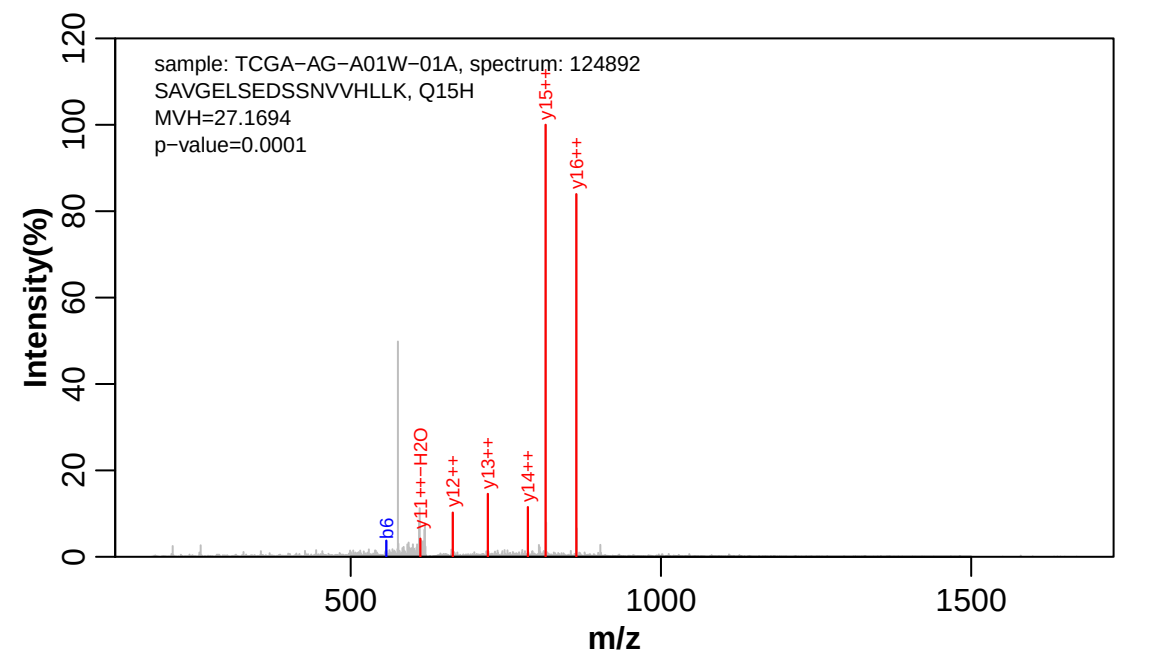

sample: TCGA−AG−A01W−01A, spectrum: 12690
LTVAPPLAEPGAGK, P1L
MVH=39.1088
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3−H2O
b3
b4−H2O
b4
y5
y6
b6
y7
y9
b9
y10
y11
y12

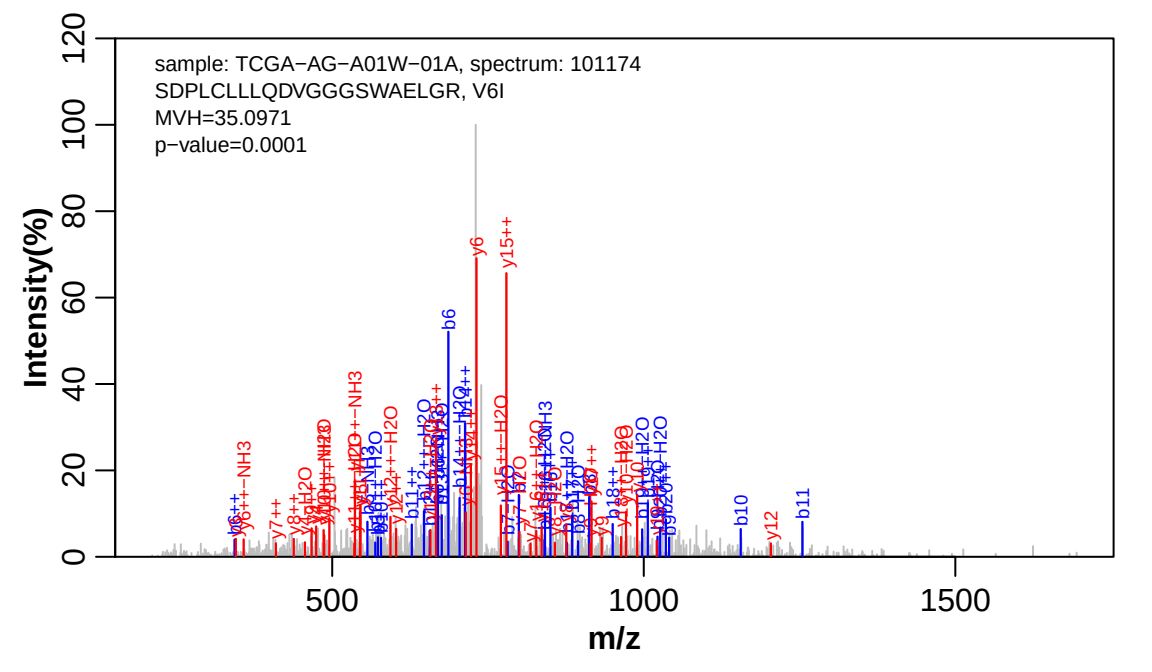

sample: TCGA−AG−A01W−01A, spectrum: 5774
LVTDYTLAEADAALQK, E11D
MVH=64.4518
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y3
y4
y5
b5−H2O
b5
y6
b6−H2O
y7
b7−NH3
b7−H2O
b7
y8
y9
b8
b9−H2O
b9
y10
b10−NH3
b10−H2O
b10
y11
y11−H2O
b11
b12
y12
b13
y13
b14
y14
b15

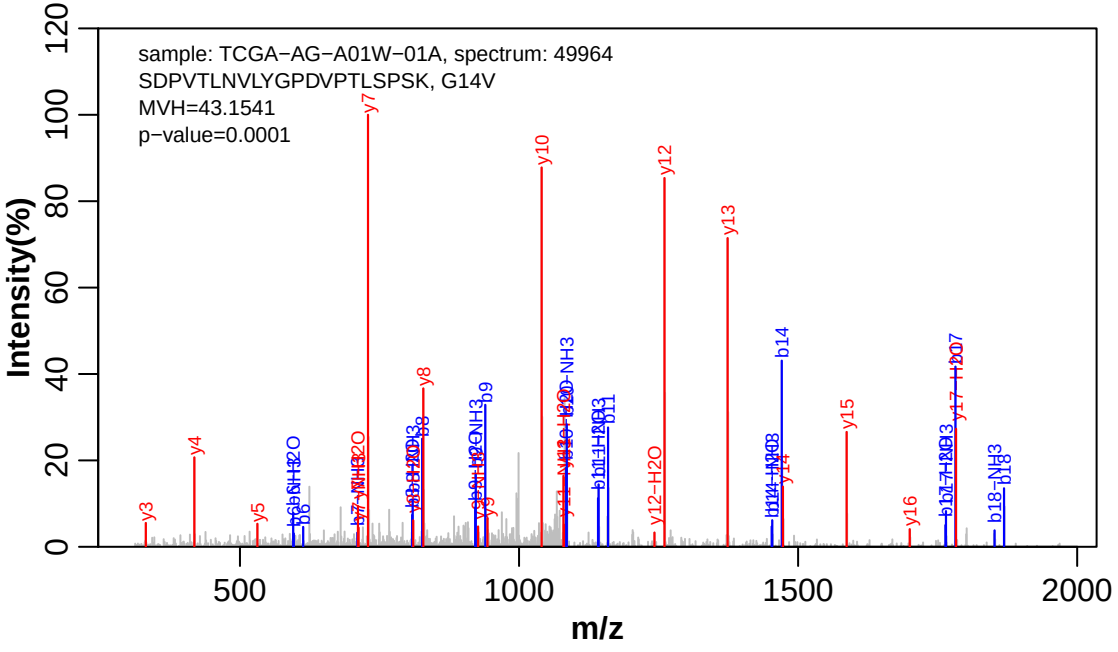

sample: TCGA−AG−A01W−01A, spectrum: 63095
NTNSVPETAPAALPETR, K17R
MVH=44.1401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y8
b13
b4−H2O
b5
y5
y6
b9−NH3
b12

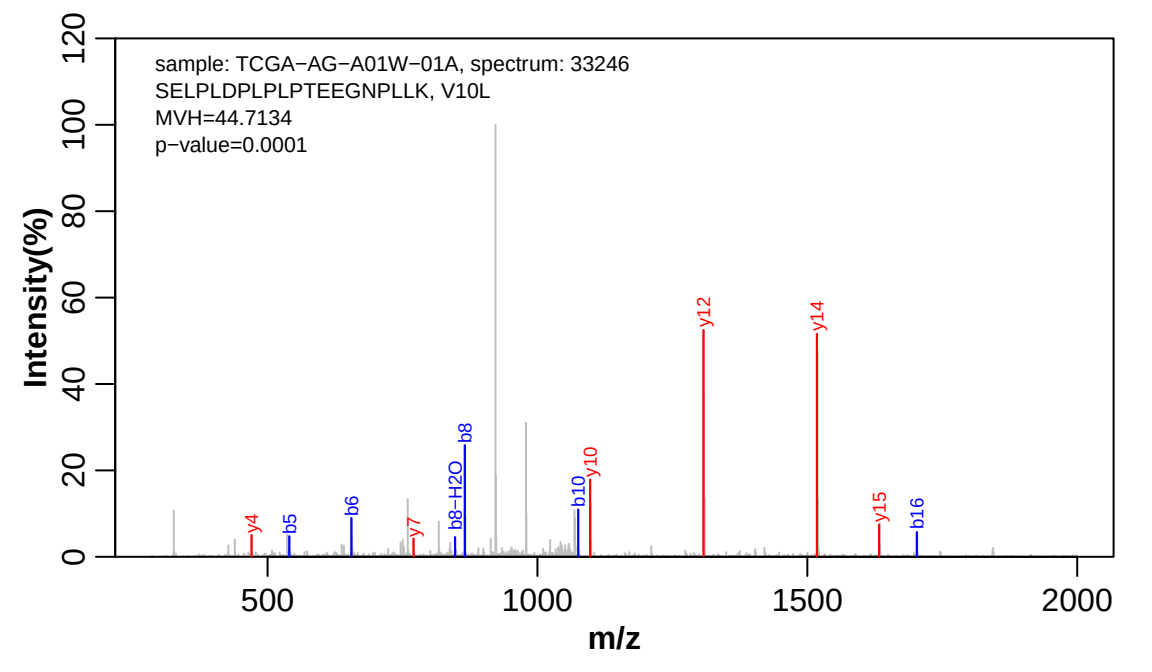

sample: TCGA−AG−A01W−01A, spectrum: 29945
QVGDFHQVLLR, A2V
MVH=33.3088
p−value=0.0001
Intensity(%)
m/z
y7++
y9++
y5−NH3
y9++−H2O
y5++−H2O
b6++−H2O
y7++−H2O
y8++−NH3
y1
b2−NH3
y2
y4
y8++
y5
0
20
40
60
80
100
120
200
400
600
800
1000

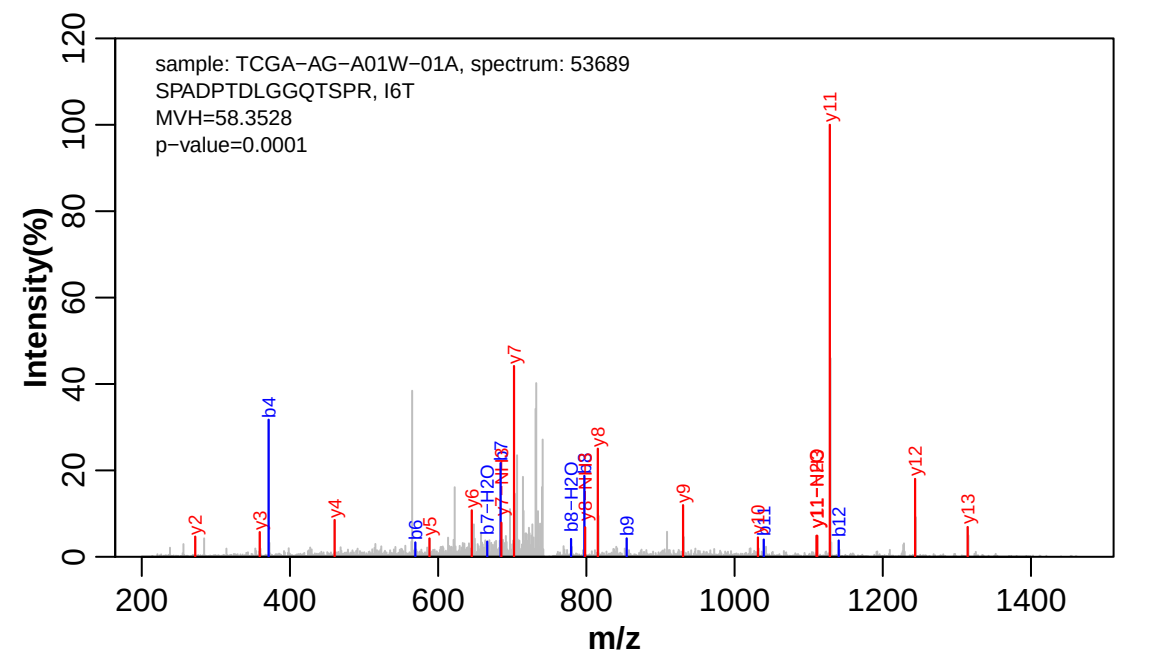

sample: TCGA−AG−A01W−01A, spectrum: 24969
SALSGHLETLLLGLLK, V10L
MVH=69.5711
p−value=0.0001
Intensity(%)
m/z
y2
y3
y4
y5
y6
y6−H2O
y7
y7−H2O
y8
y8−H2O
y9
y10
y11
y12
b5
b6
b7
b8
b8−H2O
b9
b9−H2O
b10
b11
b12
b12−NH3
b13
b13−H2O
b14
b14−H2O
b15

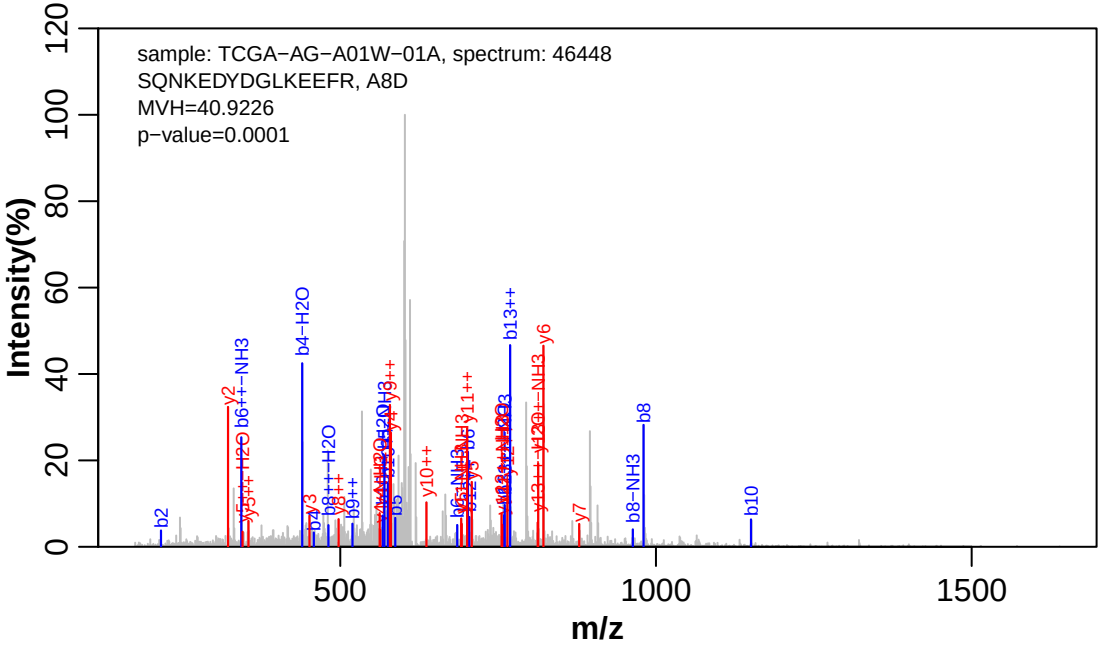

sample: TCGA−AG−A01W−01A, spectrum: 124892
SAVGELSEDSSNVVHLLK, Q15H
MVH=27.1694
p−value=0.0001
y15++
y16++
y11++−H2O
y12++
y13++
y14++
b6
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

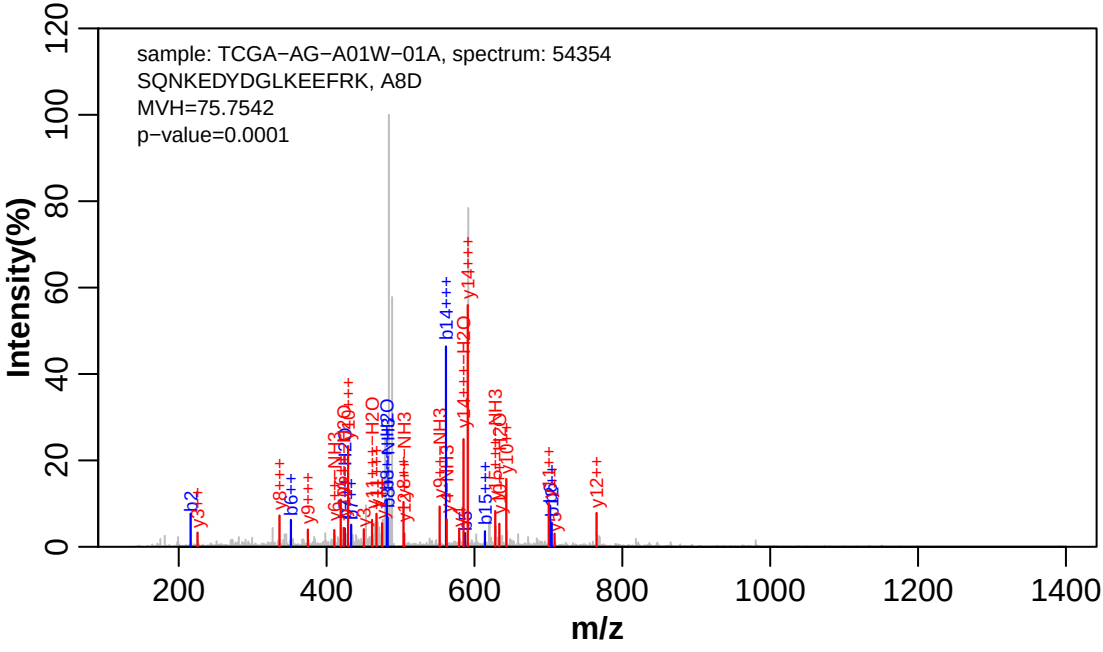

sample: TCGA−AG−A01W−01A, spectrum: 101174
SDPLCLLLQDVGGGSWAELGR, V6I
MVH=35.0971
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y15++
b6
b10
b11
y12

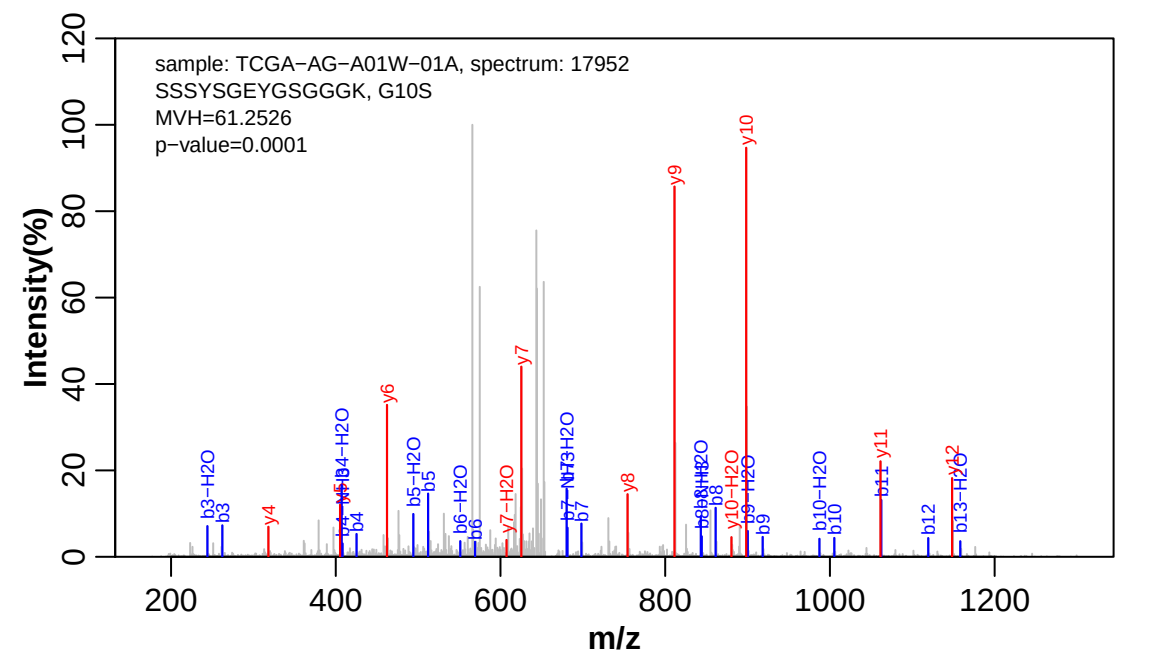

sample: TCGA−AG−A01W−01A, spectrum: 49964
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=43.1541
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3
y4
y5
y7
y8
y10
y12
y13
y14
y15
y16
b14
b18
y12−H2O

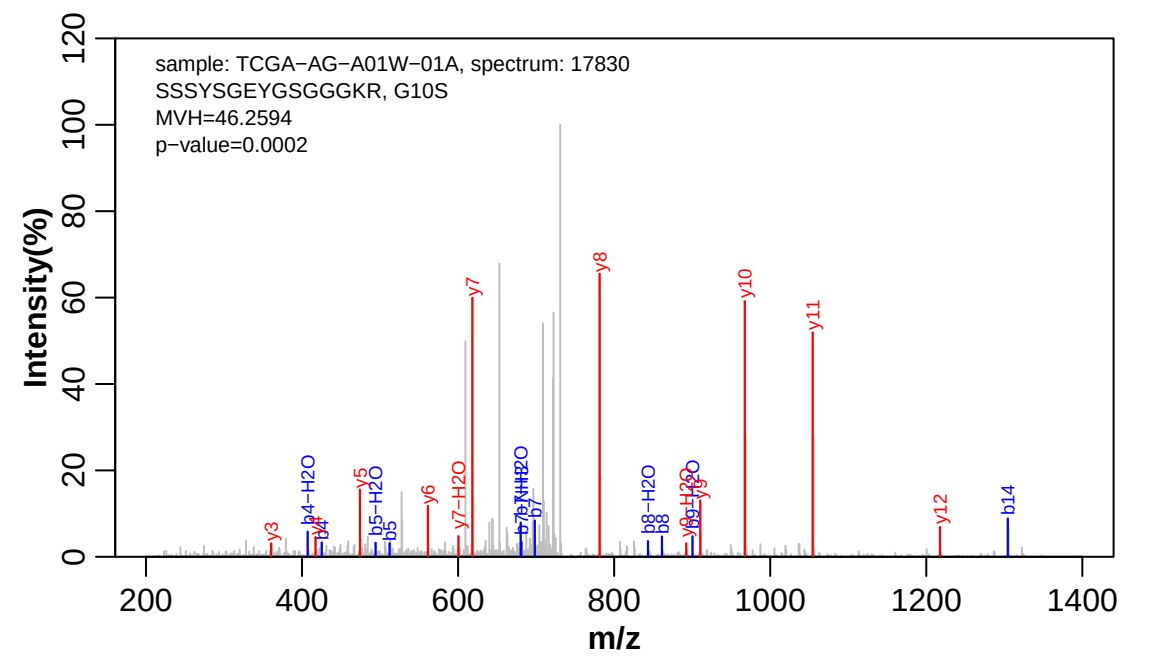

sample: TCGA−AG−A01W−01A, spectrum: 33246
SELPLDPLPLPTEEGNPLLK, V10L
MVH=44.7134
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
y4
b5
b6
y7
b8−H2O
b8
b10
y10
y12
y14
y15
b16

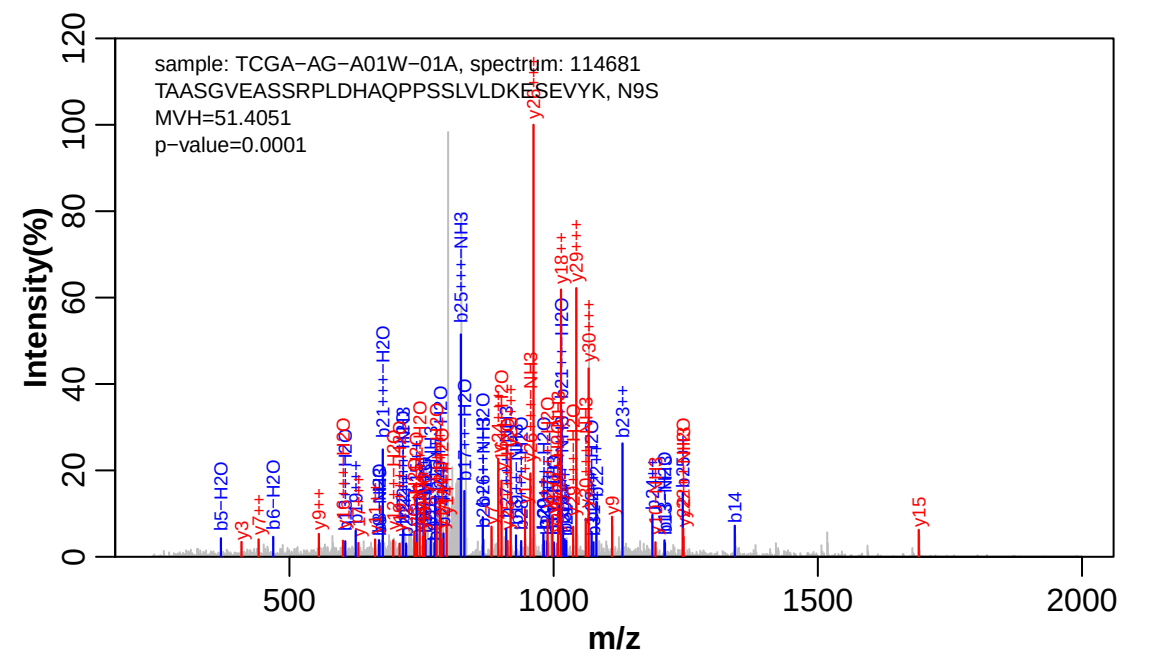

sample: TCGA−AG−A01W−01A, spectrum: 53689
SPADPTDLGGQTSPR, I6T
MVH=58.3528
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y2
y3
b4
y4
b6
y5
y6
b7−H2O
y7
y7−NH3
y8
b8−H2O
y8−NH3
b9
y9
b10
b11
y11−NH3
y11−H2O
y11
b12
y12
y13

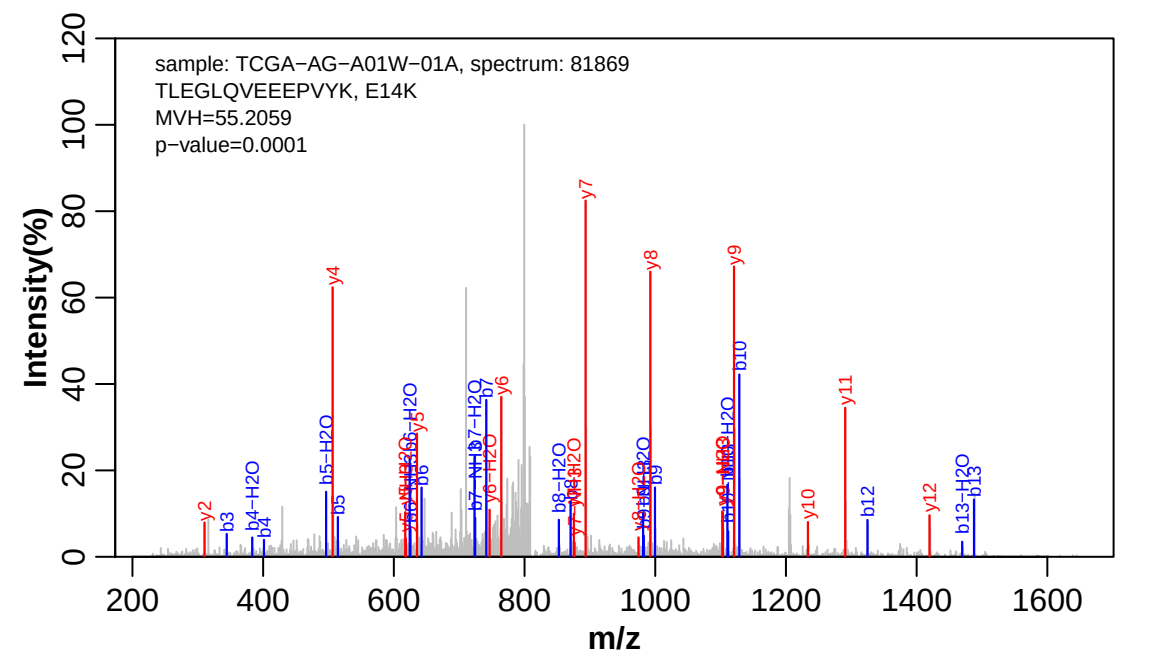

sample: TCGA−AG−A01W−01A, spectrum: 46448
SQNKEDYDGLKEEFR, A8D
MVH=40.9226
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y2
y3++−H2O
b6++−NH3
b4−H2O
b2+y3
b8++−H2O
b9++
y10++
b13++
y6
y11++
y13++−NH3
y7
b8
b8−NH3
b10

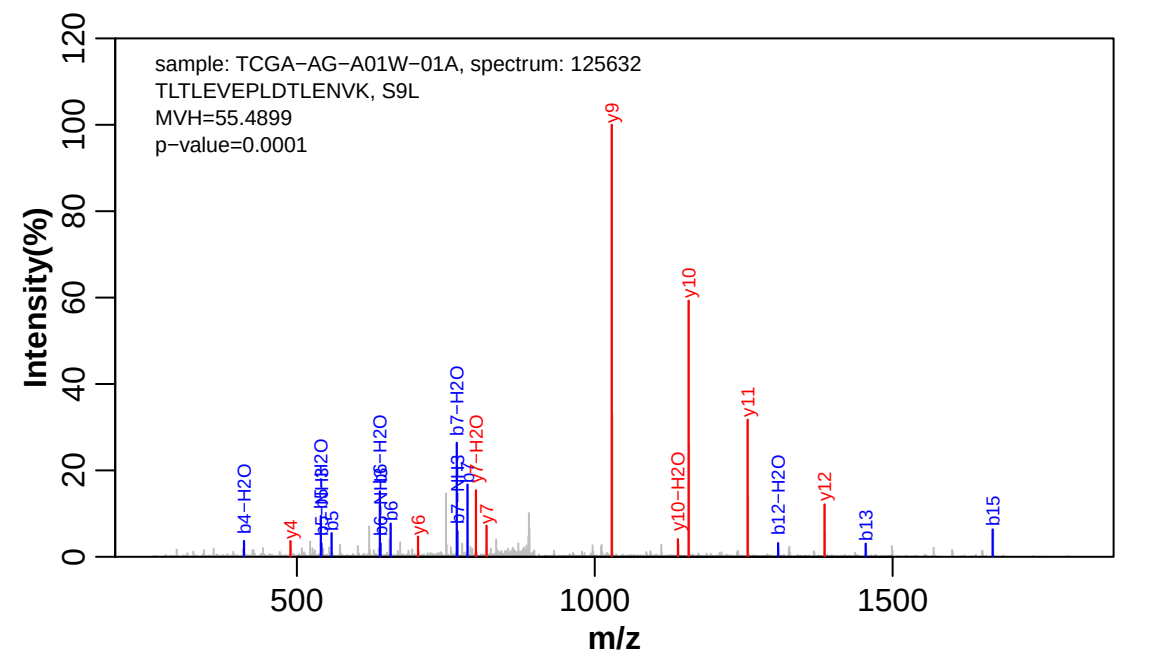

sample: TCGA−AG−A01W−01A, spectrum: 54354
SQNKEDYDGLKEEFRK, A8D
MVH=75.7542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3++
y8+++
b6+++
y9+++
b14+++
y14+++
y12++

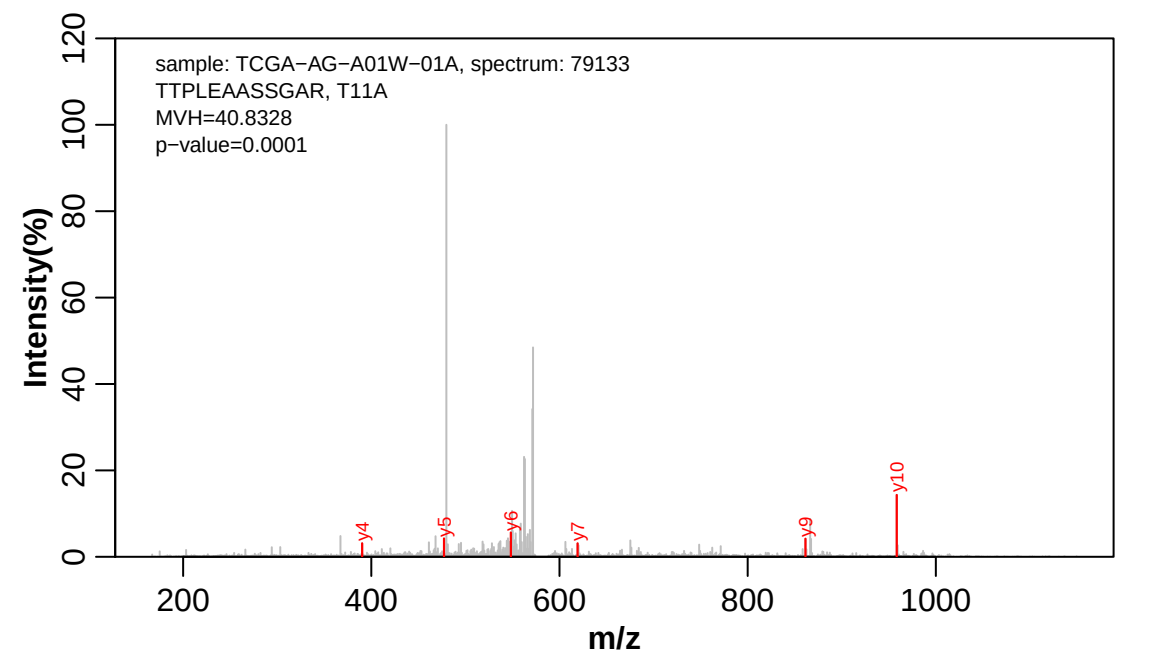

sample: TCGA−AG−A01W−01A, spectrum: 17952
SSSYSGEYGSGGGK, G10S
MVH=61.2526
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
b3
y4
y5
b4−H2O
b4
y6
b5−H2O
b5
b6−H2O
b6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
y9
b8
y10−H2O
y10
b9−H2O
b9
b10−H2O
b10
b11
y11
b12
b13−H2O
y12

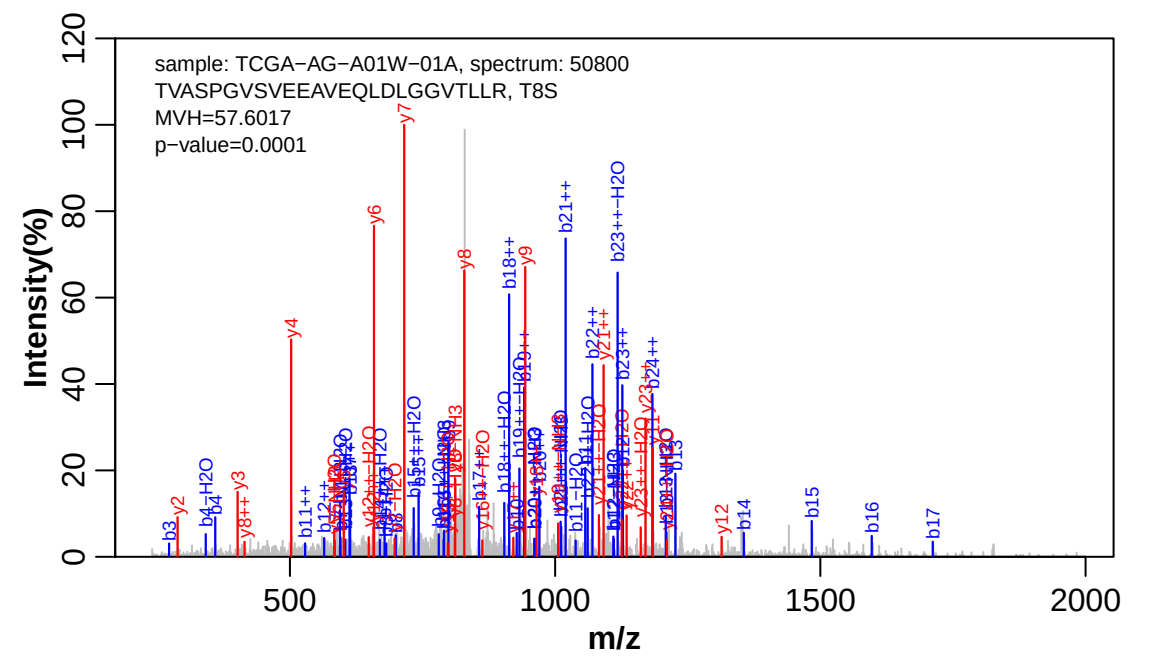

sample: TCGA−AG−A01W−01A, spectrum: 17830
SSSYSGEYGSGGGKR, G10S
MVH=46.2594
p−value=0.0002
Intensity(%)
m/z
y3
b4−H2O
b4
y5
b5−H2O
b5
y6
y7−H2O
y7
b7−NH3
b7−H2O
b7
y8
b8−H2O
b8
y9−H2O
y9
y10
y11
y12
b14

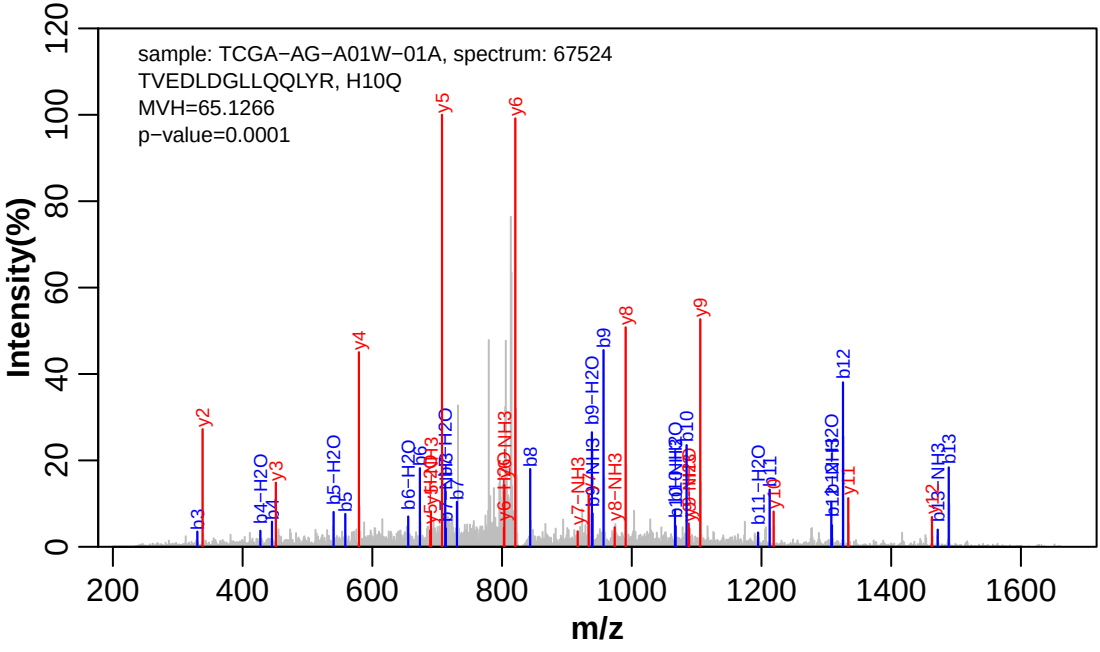

sample: TCGA−AG−A01W−01A, spectrum: 114681
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=51.4051
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5−H2O
y3
y7++
b6−H2O
y9++
b21+++−H2O
b25+++−NH3
b17+++−H2O
b26++−NH3
y28++
y18++
y29+++
y30+++
b23++
y9
b14
y15

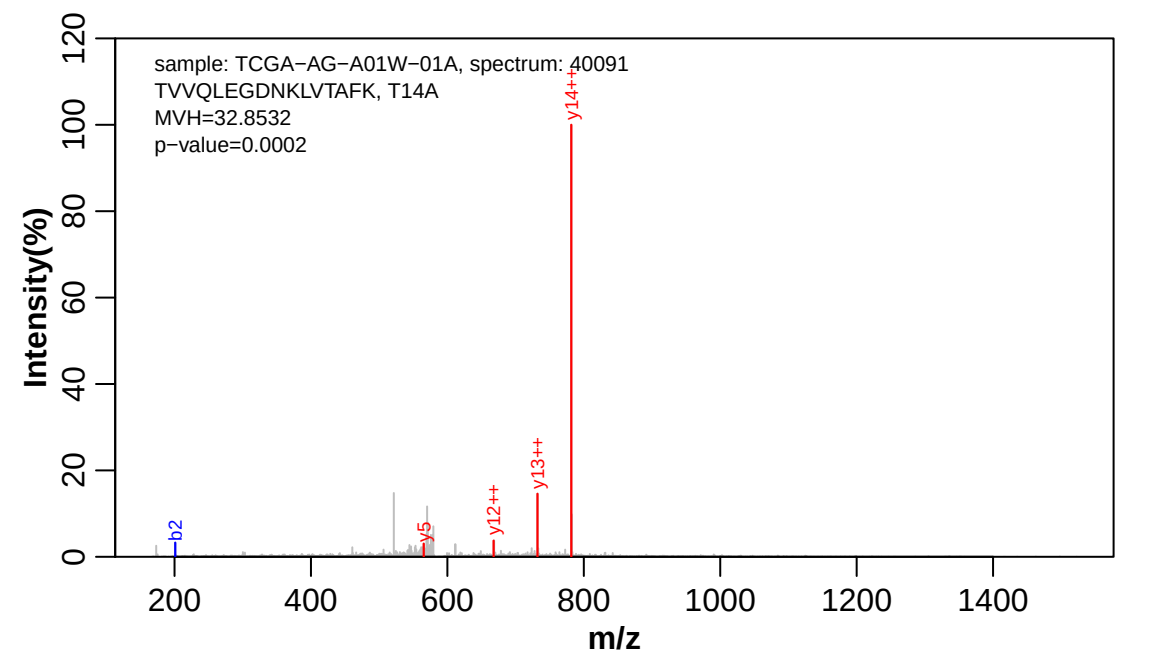

sample: TCGA−AG−A01W−01A, spectrum: 81869
TLEGLQVEEEPVYK, E14K
MVH=55.2059
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
b4−H2O
b4
b5−H2O
b5
y4
b6
y5−H2O
y5
b7−NH3−H2O
b7
y6−H2O
y6
y7
b8−H2O
b8
y7−NH3
y7−H2O
y8−H2O
b9
y8
y9
b10
y10
y11
b12
y12
b13−H2O
b13

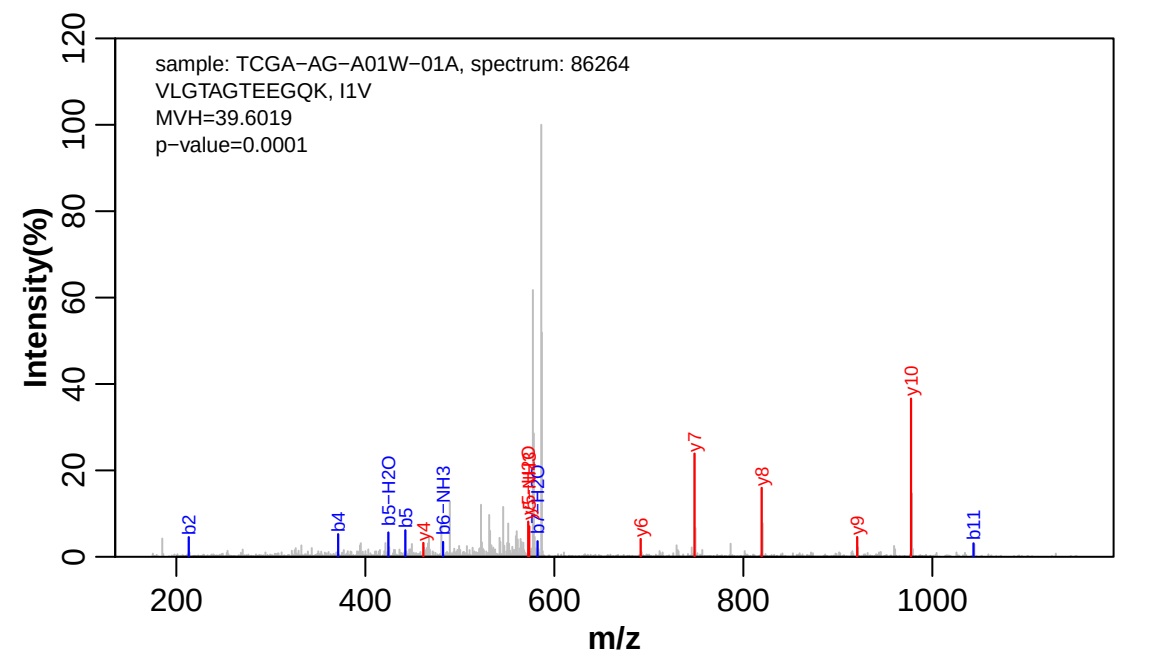

sample: TCGA−AG−A01W−01A, spectrum: 125632
TLTLEVEPLDTLENVK, S9L
MVH=55.4899
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y10
y11
y12
b15
b13
b12−H2O
y10−H2O
b7−H2O
y7−H2O
b4−H2O
y4
y6

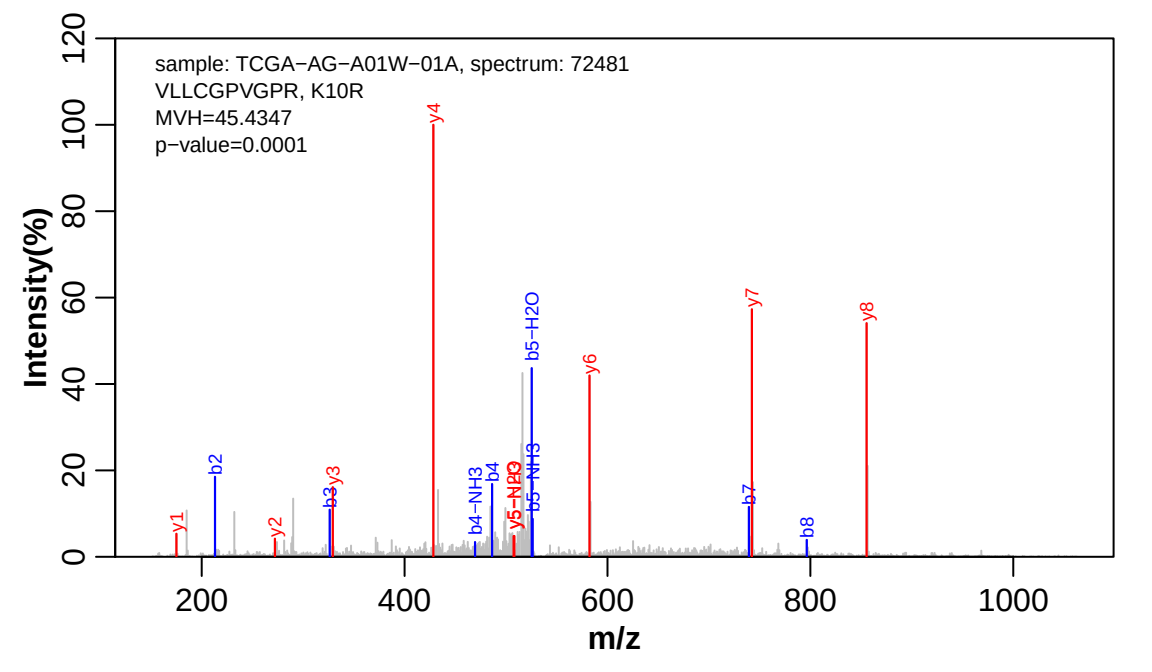

sample: TCGA−AG−A01W−01A, spectrum: 79133
TTPLEAASSGAR, T11A
MVH=40.8328
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y4
y5
y6
y7
y9
y10

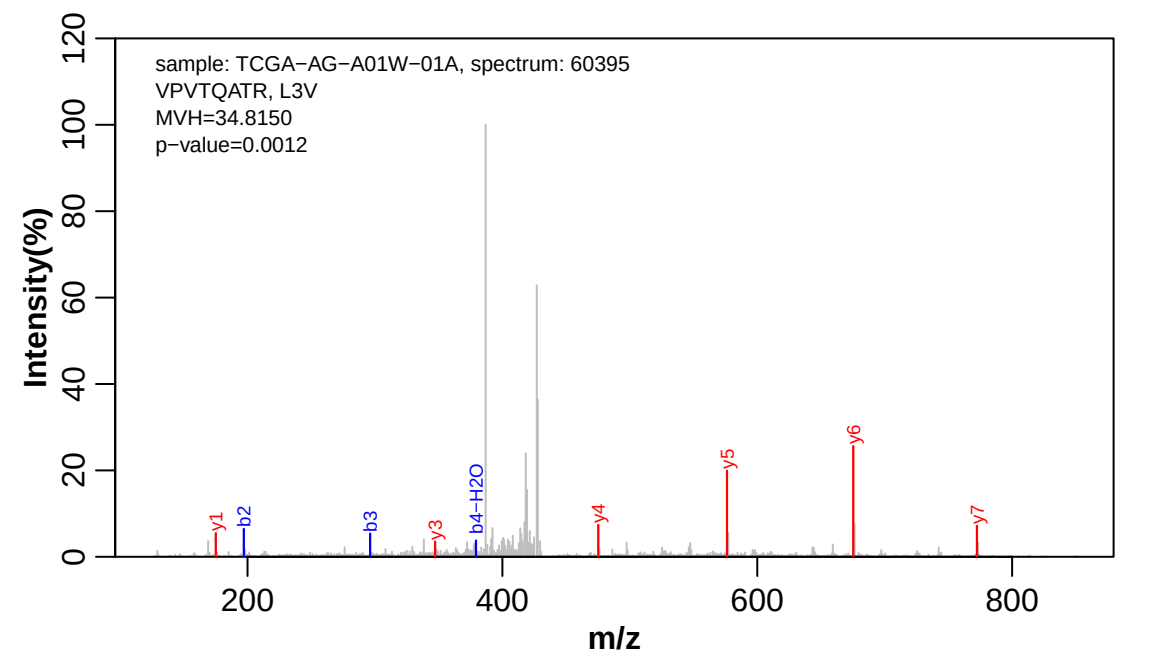

sample: TCGA−AG−A01W−01A, spectrum: 50800
TVASPGVSVEEAVEQLDLGGVTLLR, T8S
MVH=57.6017
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7
y6
y8
y4
b21++
b23++−H2O
b18++
y9
b3
y2
b4−H2O
y8++
y3
b11++
b15++−H2O
b17−H2O
b15
b16
b17
b14
y12

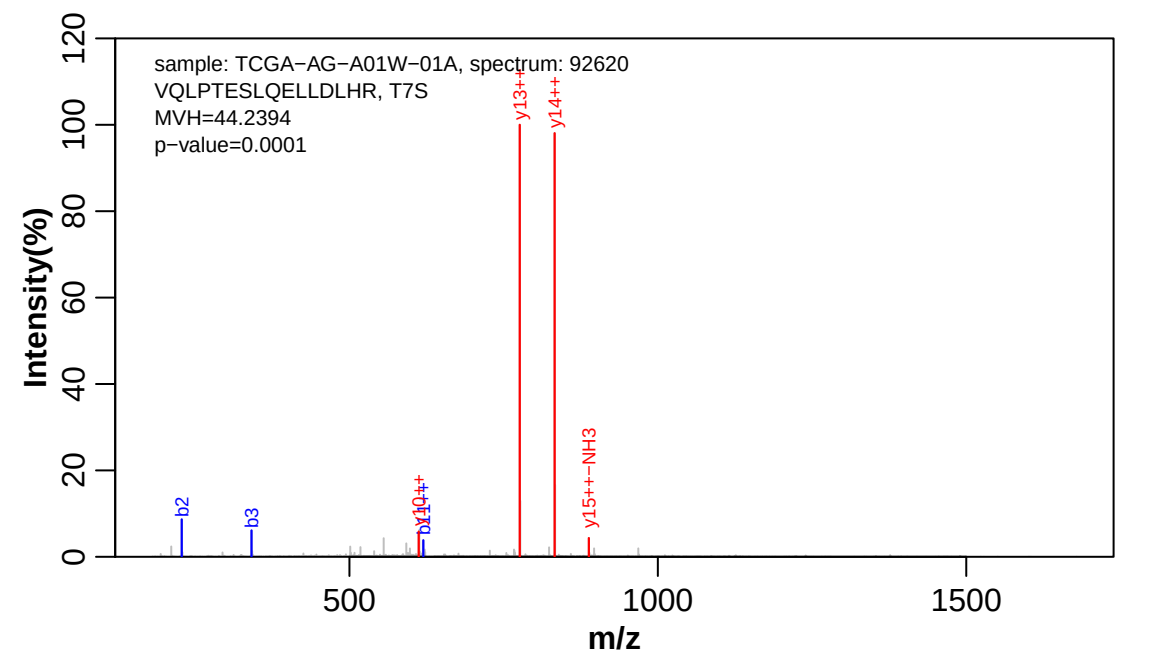

sample: TCGA−AG−A01W−01A, spectrum: 67524
TVEDLDGLLQQLYR, H10Q
MVH=65.1266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y2
y4
y8
y9
b8
b9
b12
b3
b4
y3
b5
b6
b7
b10
y11
b13
y7
y10
b11
b2
y1

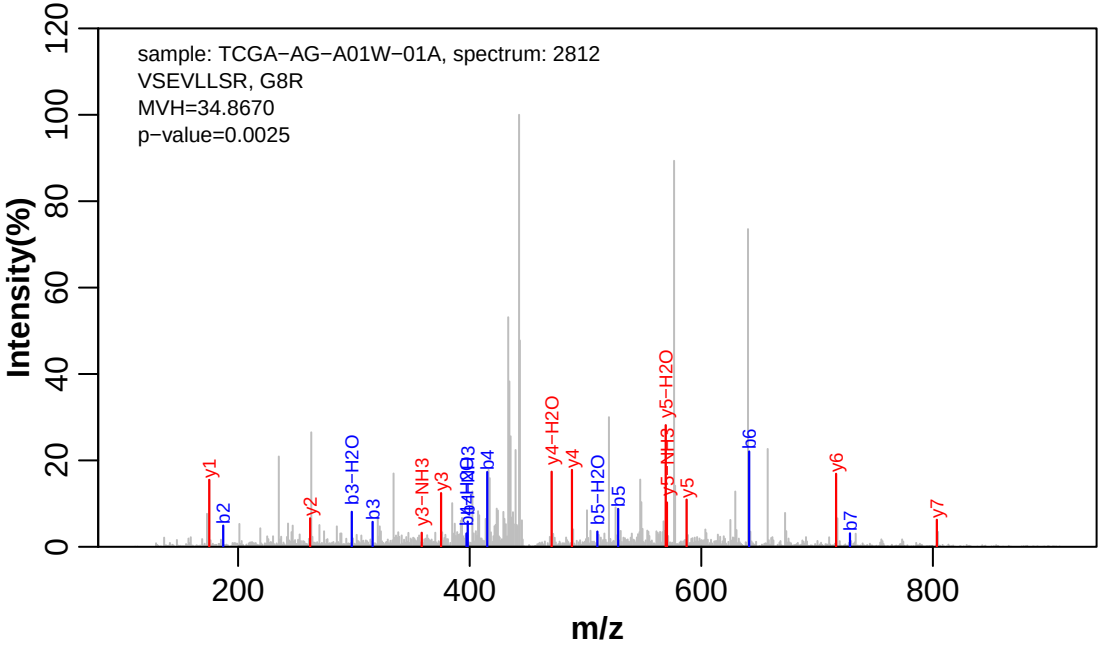

sample: TCGA−AG−A01W−01A, spectrum: 40091
TVVQLEGDNKLVTAFK, T14A
MVH=32.8532
p−value=0.0002
y14++
y13++
y12++
y5
b2
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

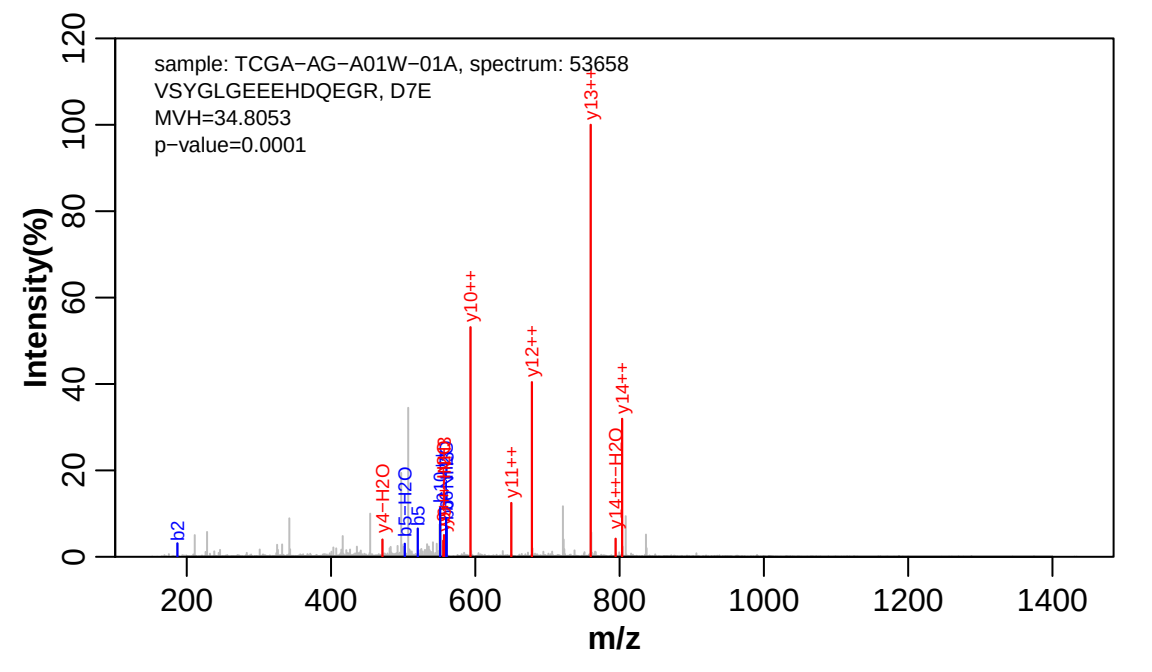

sample: TCGA−AG−A01W−01A, spectrum: 86264
VLGTAGTEEGQK, I1V
MVH=39.6019
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b4
b5−H2O
b5
y4
b6−NH3
y6
y7
y8
y9
y10
b11

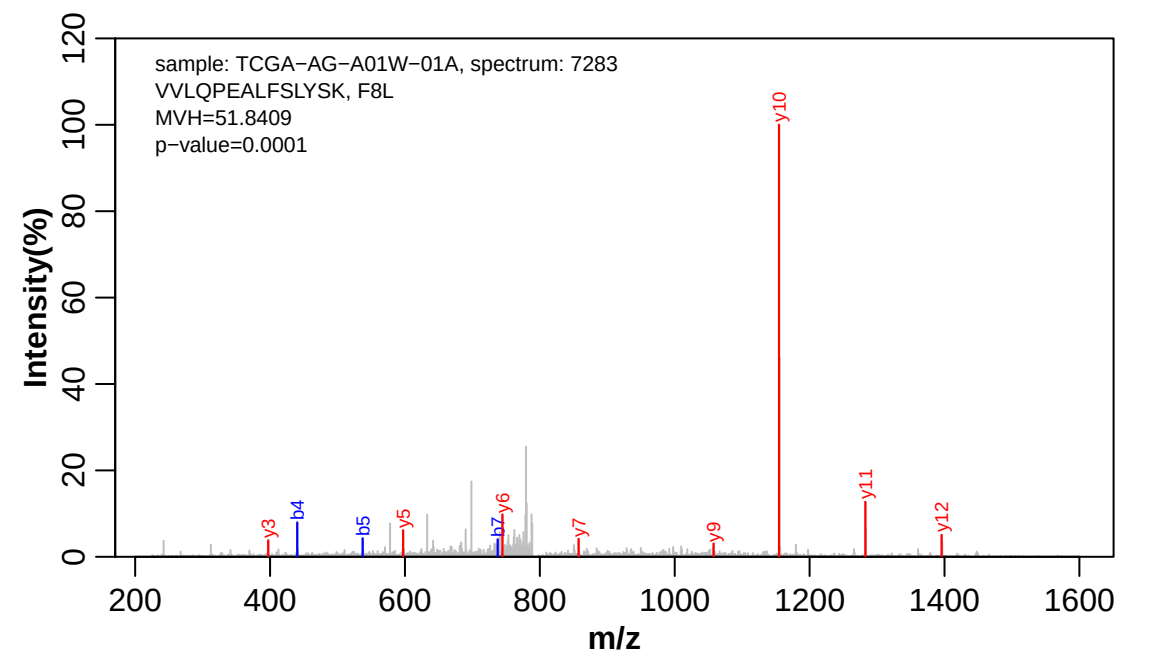

sample: TCGA−AG−A01W−01A, spectrum: 72481
VLLCGPVGPR, K10R
MVH=45.4347
p−value=0.0001
Intensity(%)
m/z
y4
y7
y8
y6
b5−H2O
b2
y3
b3
y1
y2
b4−NH3
b4
y5−NH3
b5−NH3
b7
b8

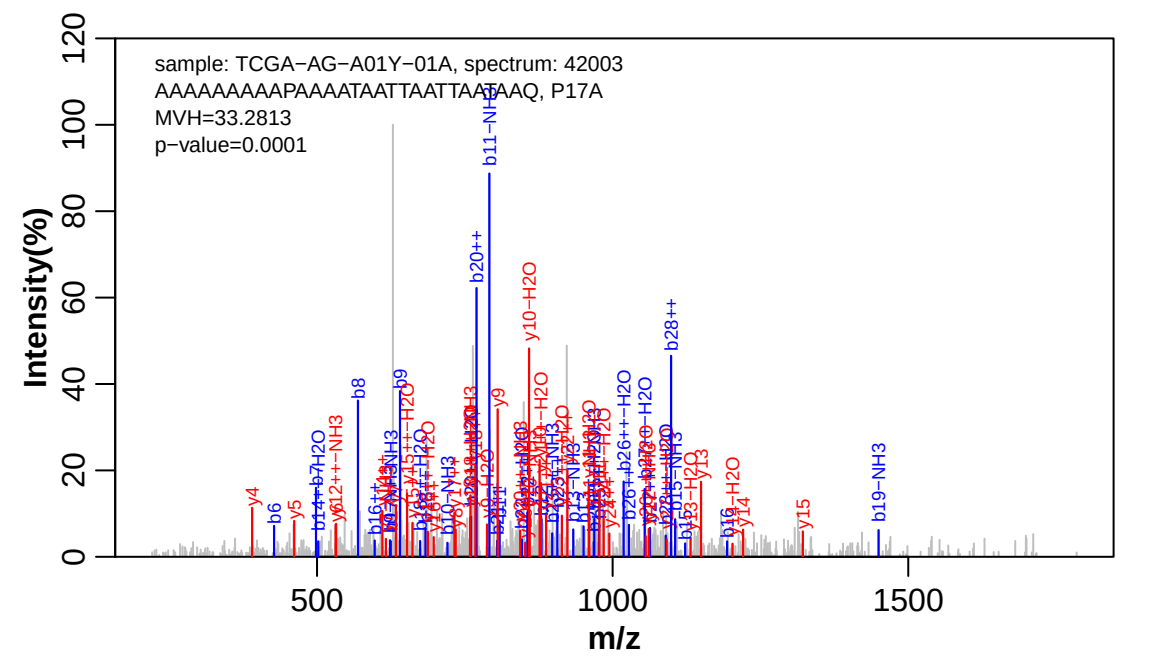

sample: TCGA−AG−A01W−01A, spectrum: 60395
VPVTQATR, L3V
MVH=34.8150
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3
y3
b4−H2O
y4
y5
y6
y7

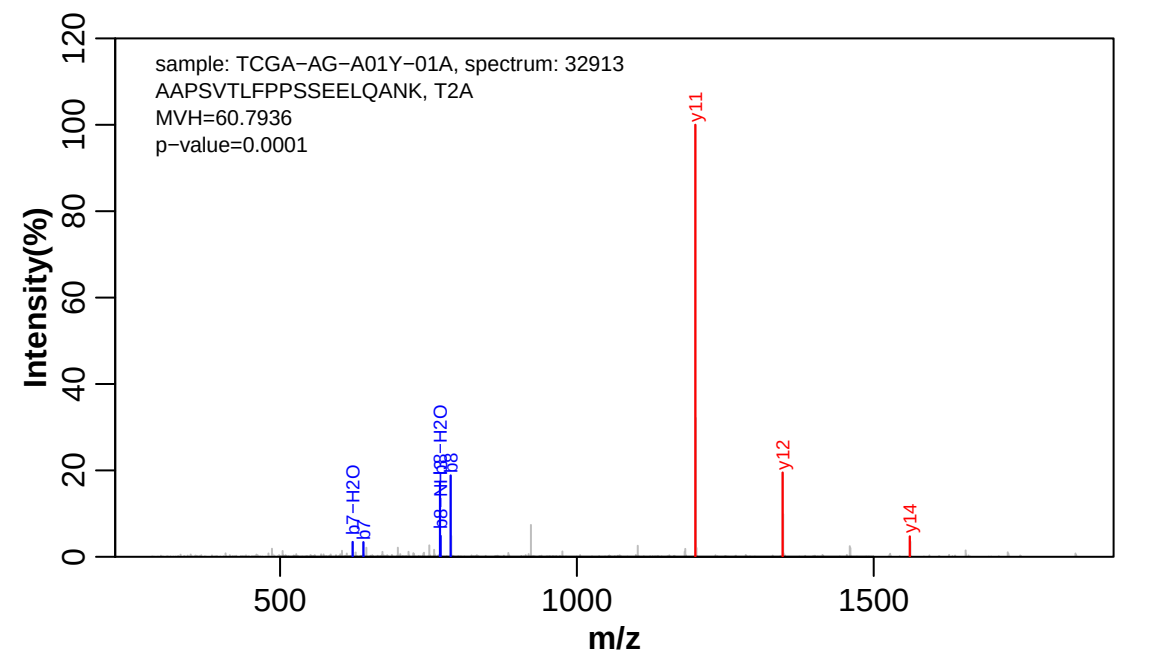

sample: TCGA−AG−A01W−01A, spectrum: 92620
VQLPTESLQELLDLHR, T7S
MVH=44.2394
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b3
b10++
b11++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

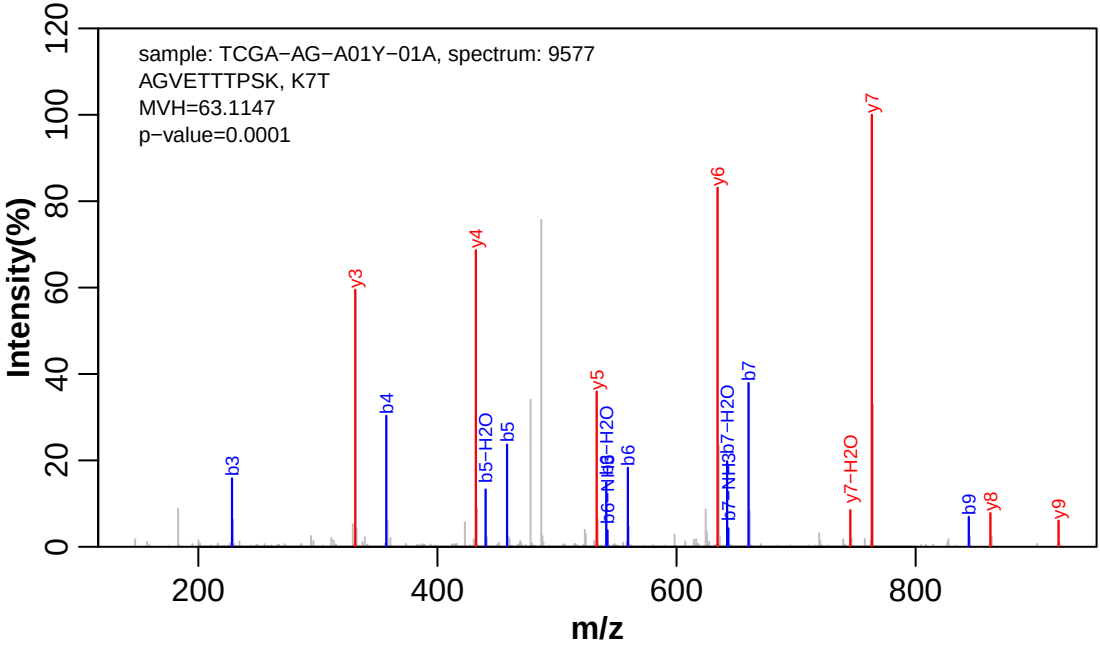

sample: TCGA−AG−A01W−01A, spectrum: 2812
VSEVLLSR, G8R
MVH=34.8670
p−value=0.0025
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3−H2O
b3
y3−NH3
y3
b4
y4−H2O
y4
b5−H2O
b5
y5−NH3
y5−H2O
y5
b6
y6
b7
y7

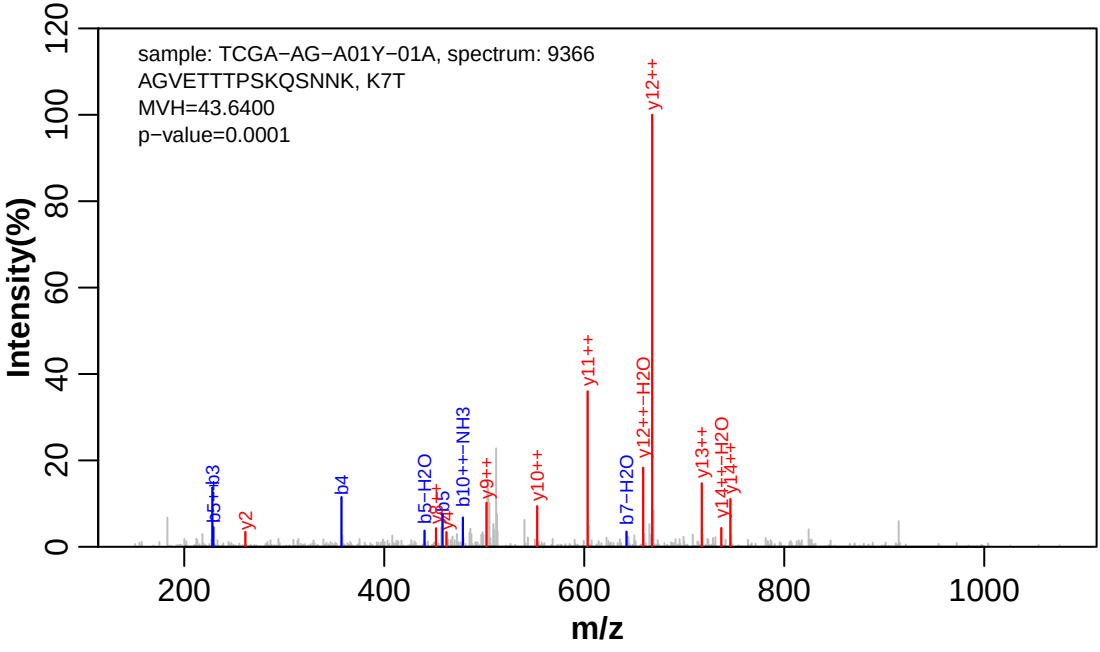

sample: TCGA−AG−A01W−01A, spectrum: 53658
VSYGLGEEEHDQEGR, D7E
MVH=34.8053
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y4−H2O
b5−H2O
b5
y11++
y10++
y12++
y13++
y14++
y14++−H2O

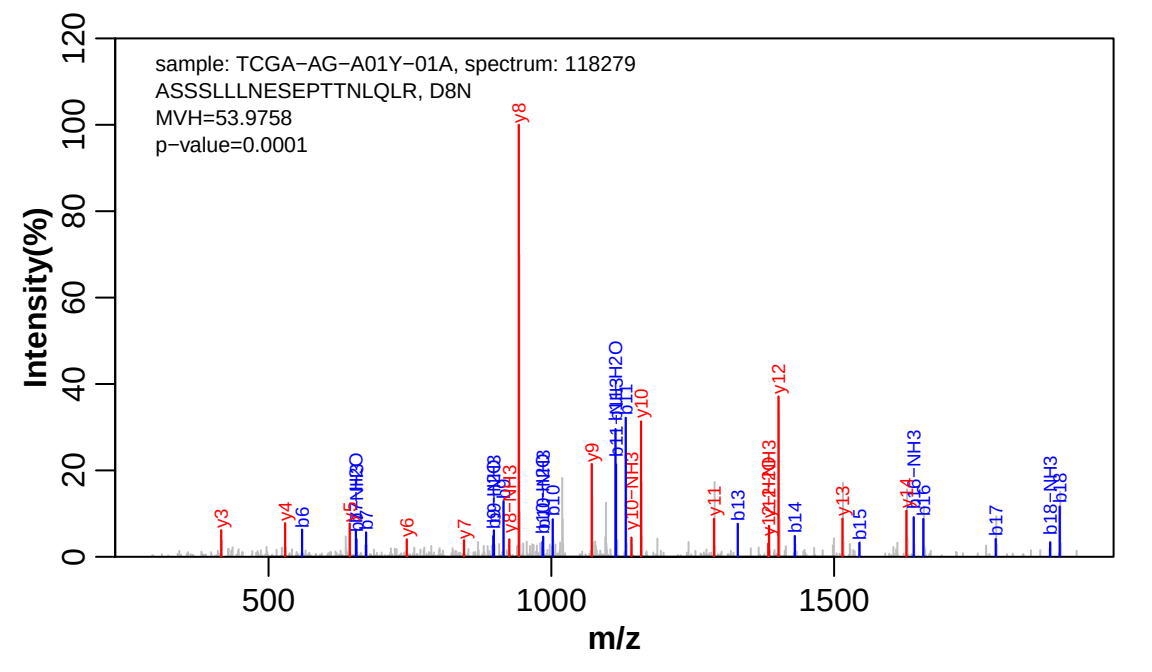

sample: TCGA−AG−A01W−01A, spectrum: 7283
VVLQPEALFSLYSK, F8L
MVH=51.8409
p−value=0.0001
Intensity(%)
m/z
y3
b4
b5
y5
b7
y6
y7
y9
y10
y11
y12

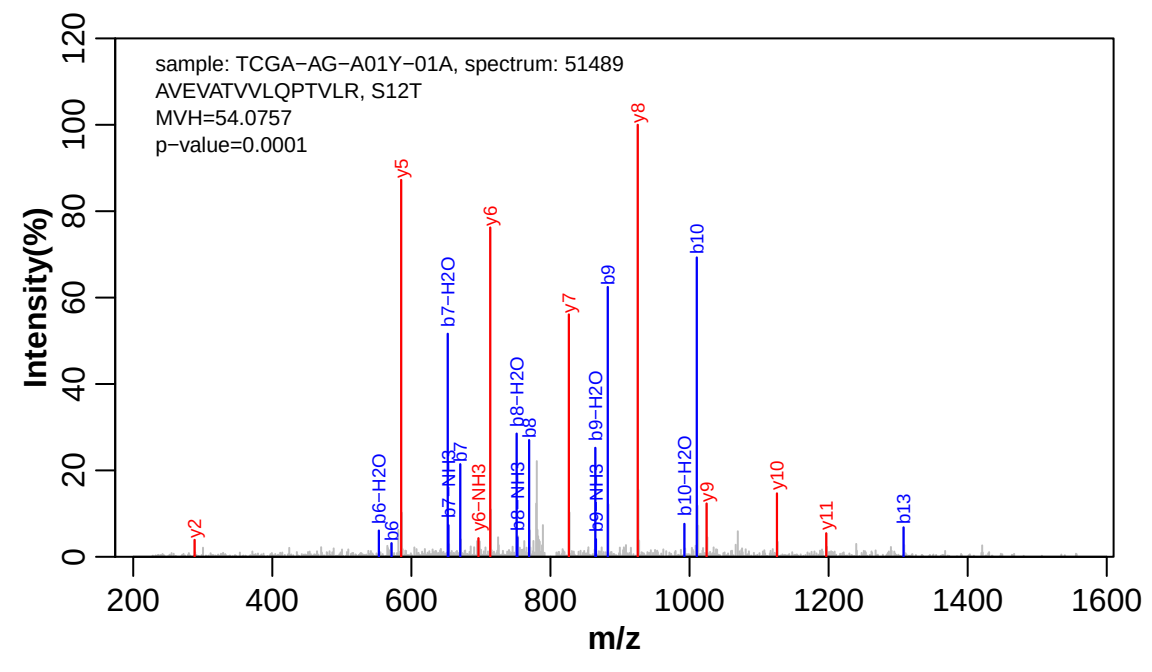

sample: TCGA−AG−A01Y−01A, spectrum: 42003
AAAAAAAAAPAAAATAATTAATTAATAAAQ, P17A
MVH=33.2813
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b11−NH3
b20++
y10−H2O
b28++
b8
b9
y9
y4
b6
y5
b19−NH3
y15
y14−H2O
y13
b23−H2O
b26++−H2O
b27++−H2O
b14+−H2O
y12++−NH3

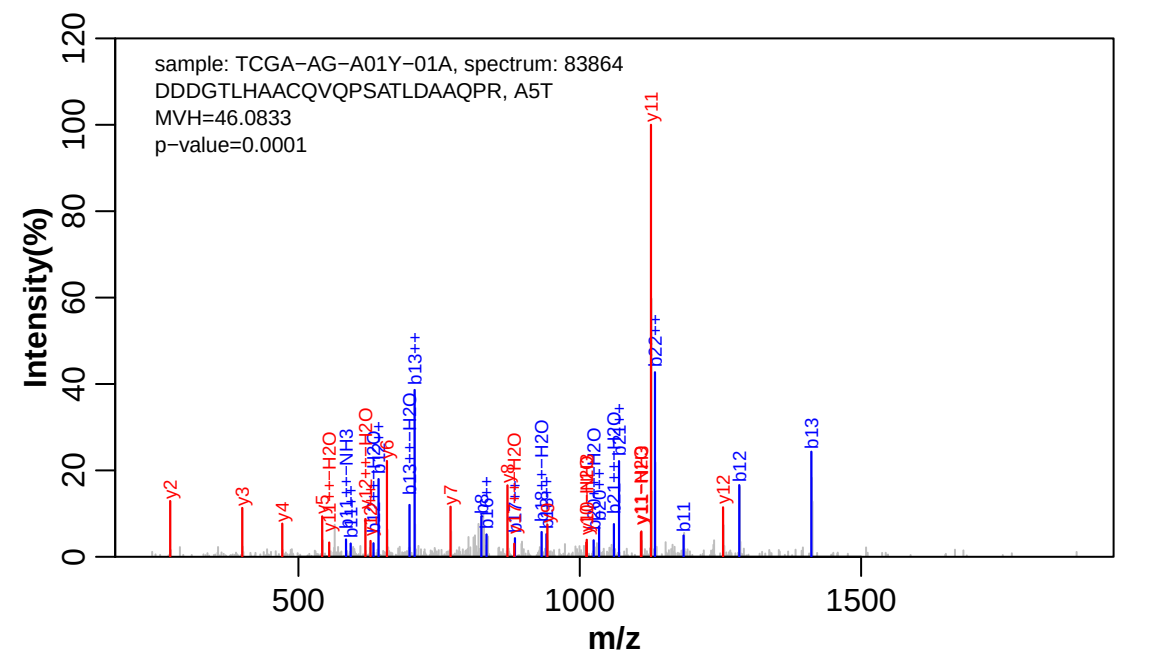

sample: TCGA−AG−A01Y−01A, spectrum: 32913
AAPSVTLFPPSSEELQANK, T2A
MVH=60.7936
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8−H2O
b8
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

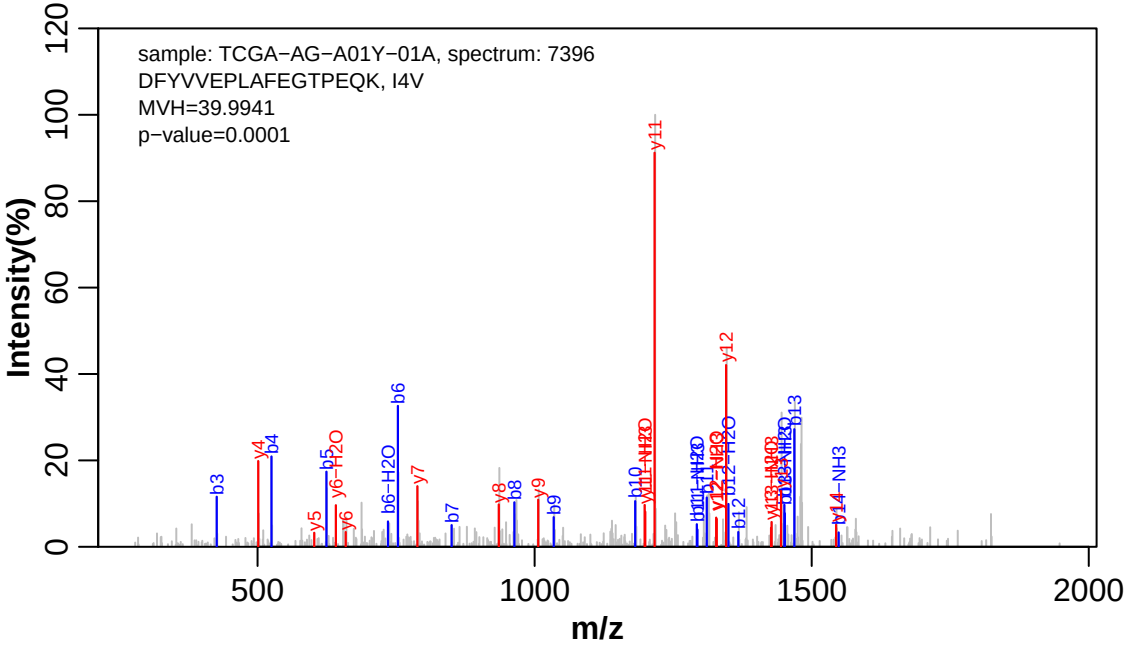

sample: TCGA−AG−A01Y−01A, spectrum: 9577
AGVETTTPSK, K7T
MVH=63.1147
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−NH3
b6−H2O
b6
y6
b7−NH3
b7−H2O
b7
y7
y7−H2O
b9
y8
y9

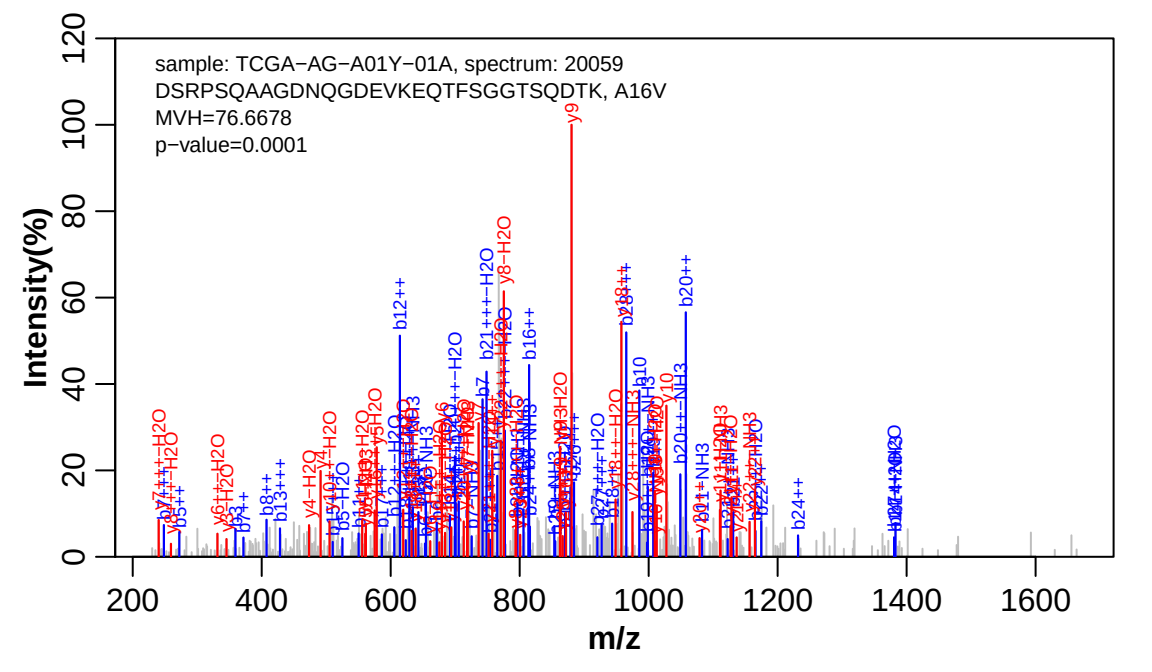

sample: TCGA−AG−A01Y−01A, spectrum: 9366
AGVETTTPSKQSNNK, K7T
MVH=43.6400
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y12++
y11++
y12++−H2O
y13++
y14++
y14++−H2O
y10++
y9++
b10++−NH3
b5−H2O
b5−b3
y2
b4
b7−H2O

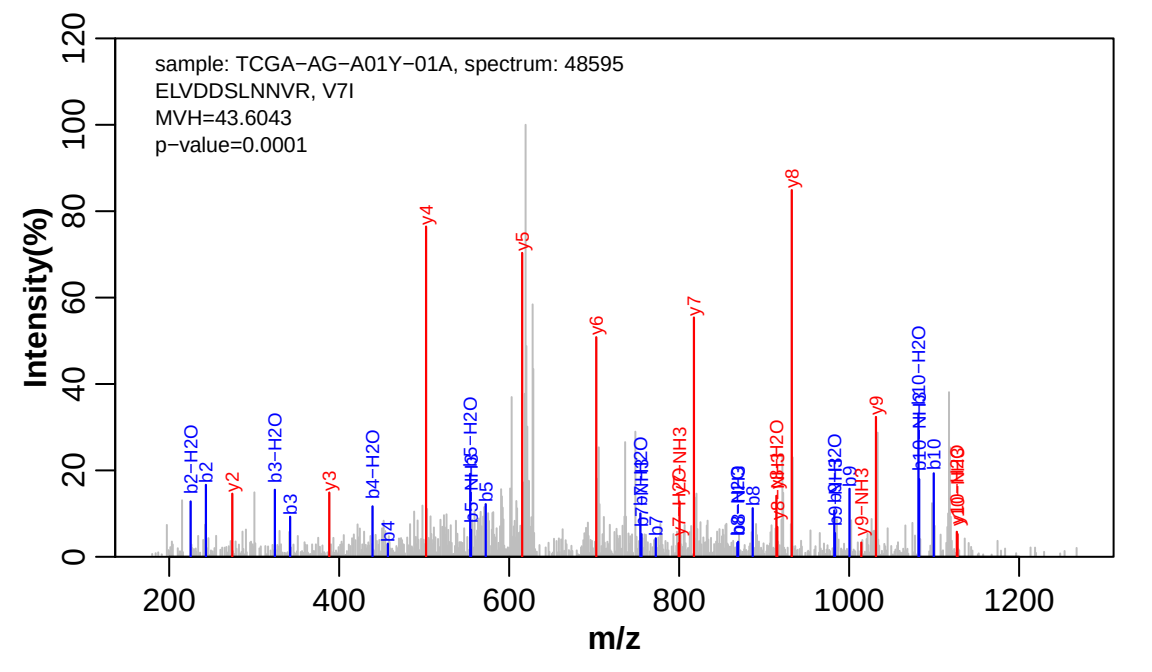

sample: TCGA−AG−A01Y−01A, spectrum: 118279
ASSSLLLNESEPTTNLQLR, D8N
MVH=53.9758
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y3
y4
b6
y6
y7
y9
y10
y11
b13
y12
b14
y13
b15
b16
b17
b18
y3−NH3
y8−NH3
y10−NH3
y12−NH3
b16−NH3
b18−NH3
y12−H2O
b11−H2O

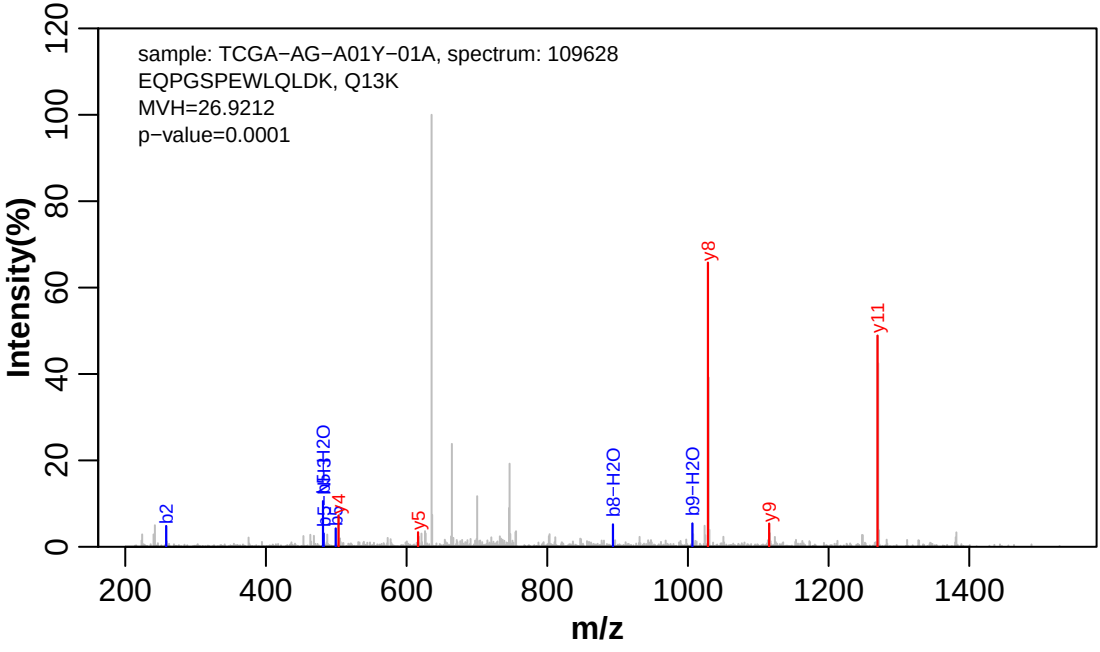

sample: TCGA−AG−A01Y−01A, spectrum: 51489
AVEVATVVLQPTVLR, S12T
MVH=54.0757
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b6−H2O
b6
y5
b7−NH3
b7
b7−H2O
y6−NH3
y6
b8−NH3
b8
b8−H2O
y7
b9−NH3
b9−H2O
b9
y8
b10−H2O
b10
y9
y10
y11
b13

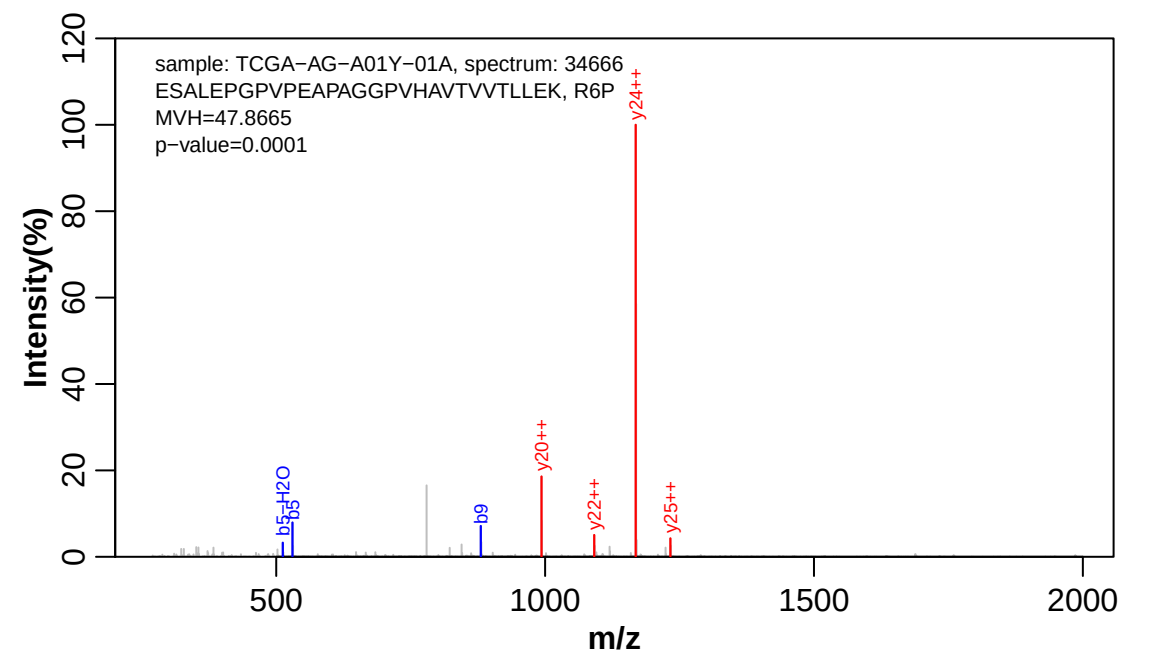

sample: TCGA−AG−A01Y−01A, spectrum: 83864
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=46.0833
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2
y3
y4
y5++−H2O
y11++−NH3
b11++−NH3
y12++−H2O
b12++−H2O
y6
b13++−H2O
b13++
y7
b18++
y8++−H2O
b17++−H2O
b18++−H2O
y10−NH3
y10−H2O
b21++−H2O
b21++
y11−NH3
y11
b22++
b11
y12
b12
b13

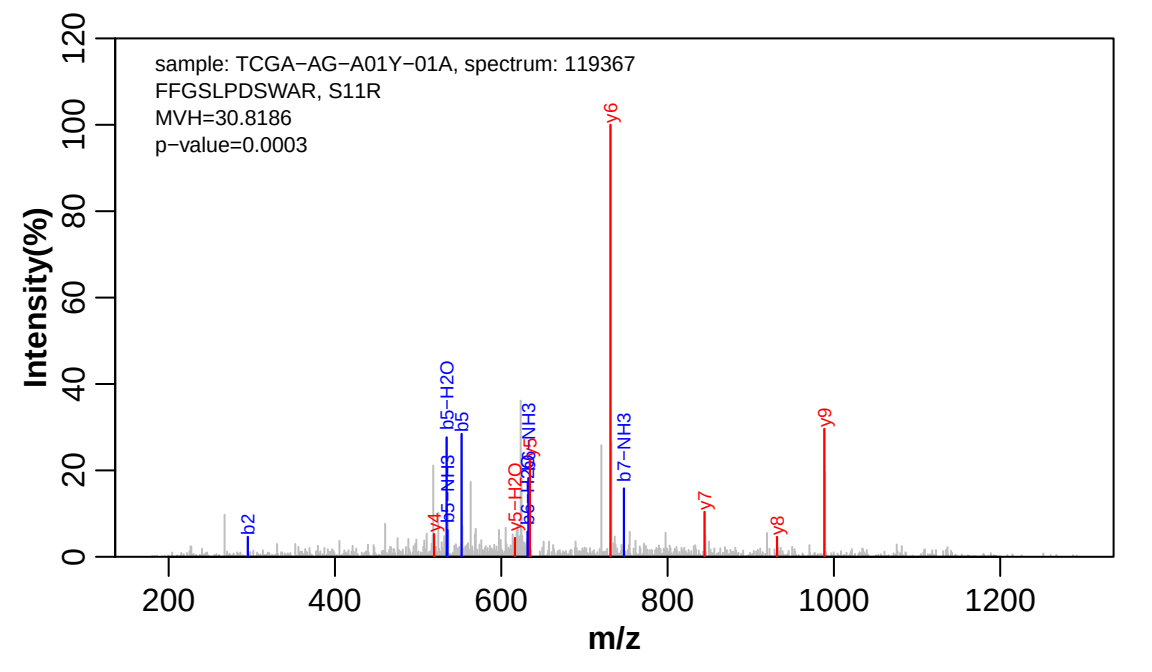

sample: TCGA−AG−A01Y−01A, spectrum: 7396
DFYVVEPLAFEGTPEQK, I4V
MVH=39.9941
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7
b7
y8
b8
y9
b9
b10
y11
y11−NH3
y11−H2O
b11−NH3
b11−H2O
b11
y12−NH3
y12−H2O
y12
b12
y13−H2O
b13
y14−NH3

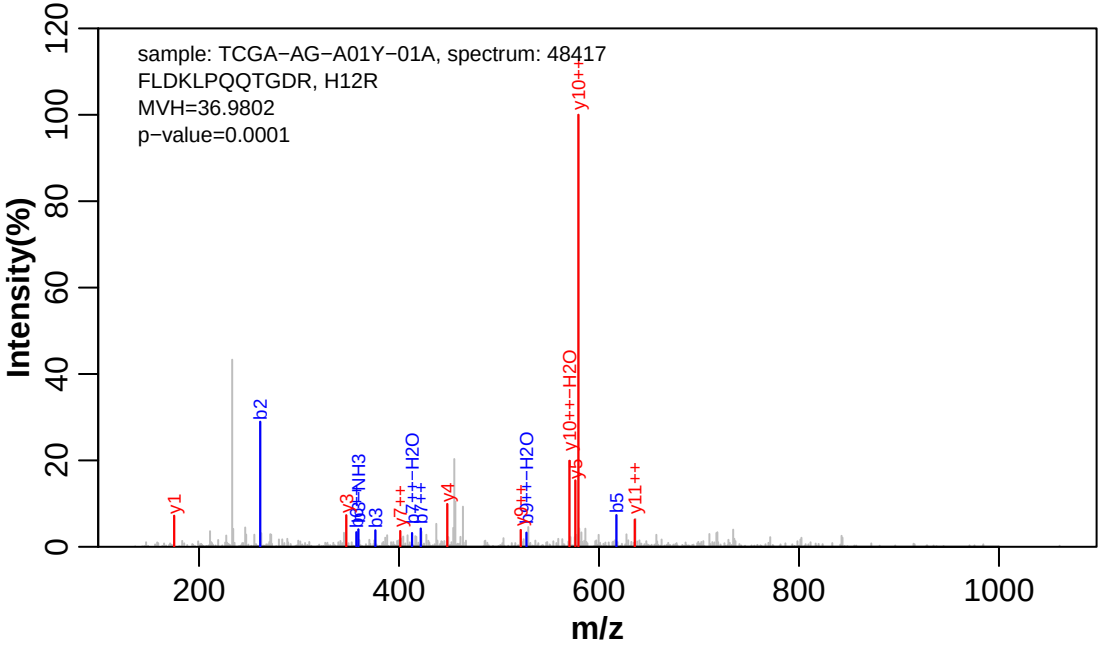

sample: TCGA−AG−A01Y−01A, spectrum: 20059
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=76.6678
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y8−H2O
b12++
b16++
b20++
b24++
b13+++
b8++
y4−H2O
b5−H2O

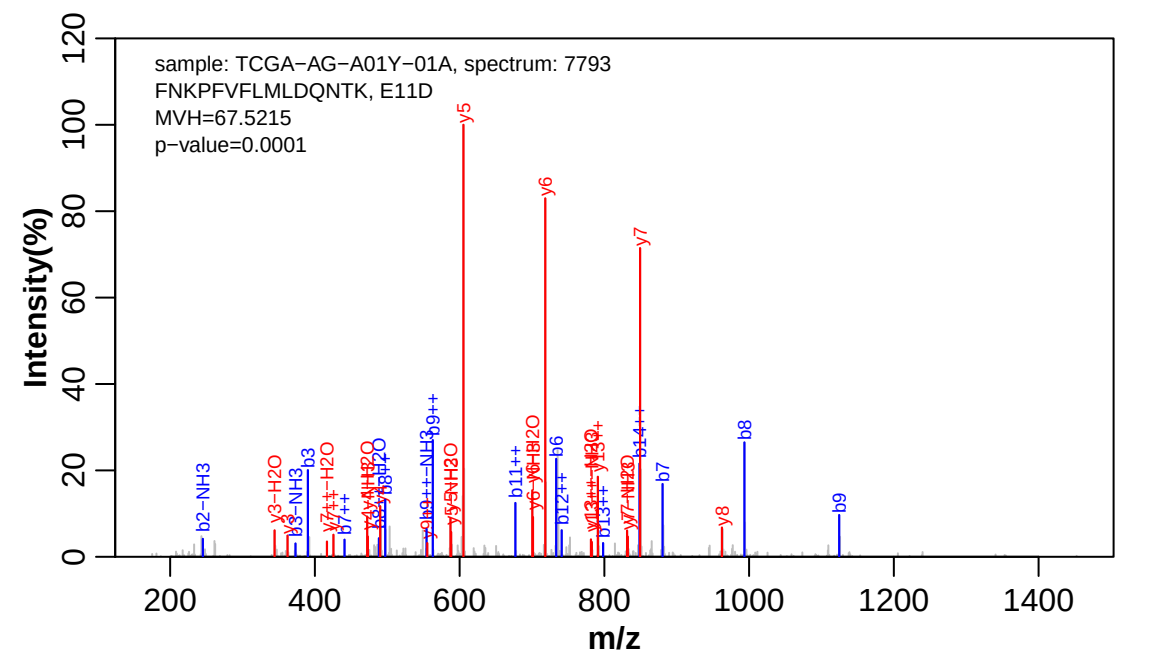

sample: TCGA−AG−A01Y−01A, spectrum: 48595
ELVDDSLNNVR, V7I
MVH=43.6043
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5
b6
y6
b7
y7
b8
y8
y9
b10
b10−H2O

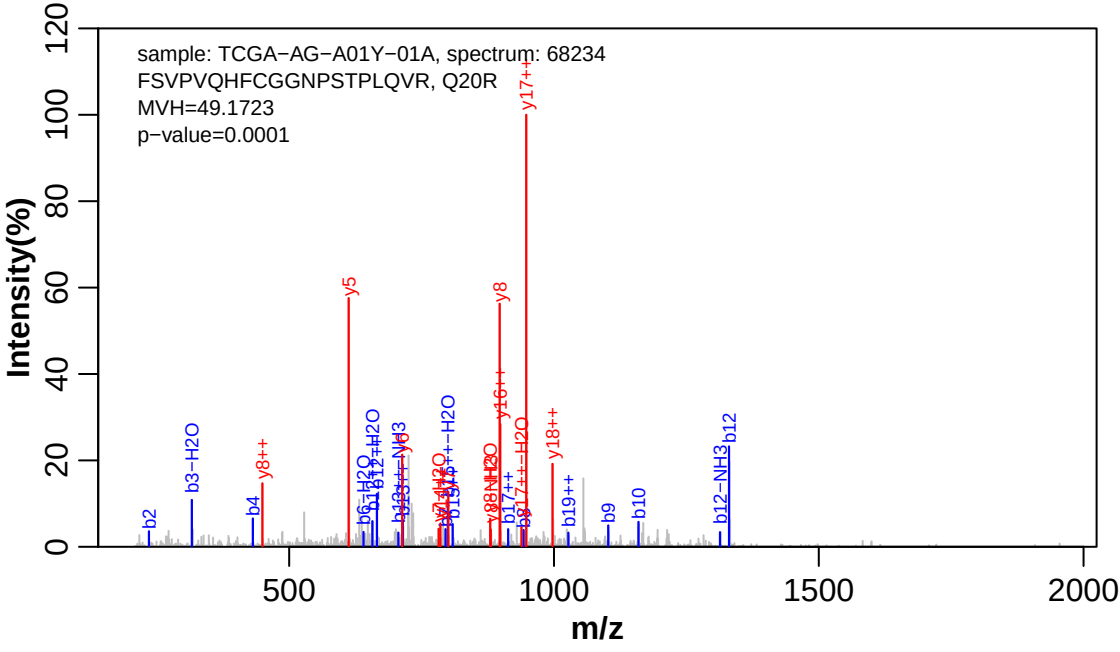

sample: TCGA−AG−A01Y−01A, spectrum: 109628
EQPGSPEWLQLDK, Q13K
MVH=26.9212
p−value=0.0001
Intensity(%)
m/z
b2
b5−H2O
b5
b4
y4
y5
b8−H2O
b9−H2O
y8
y9
y11

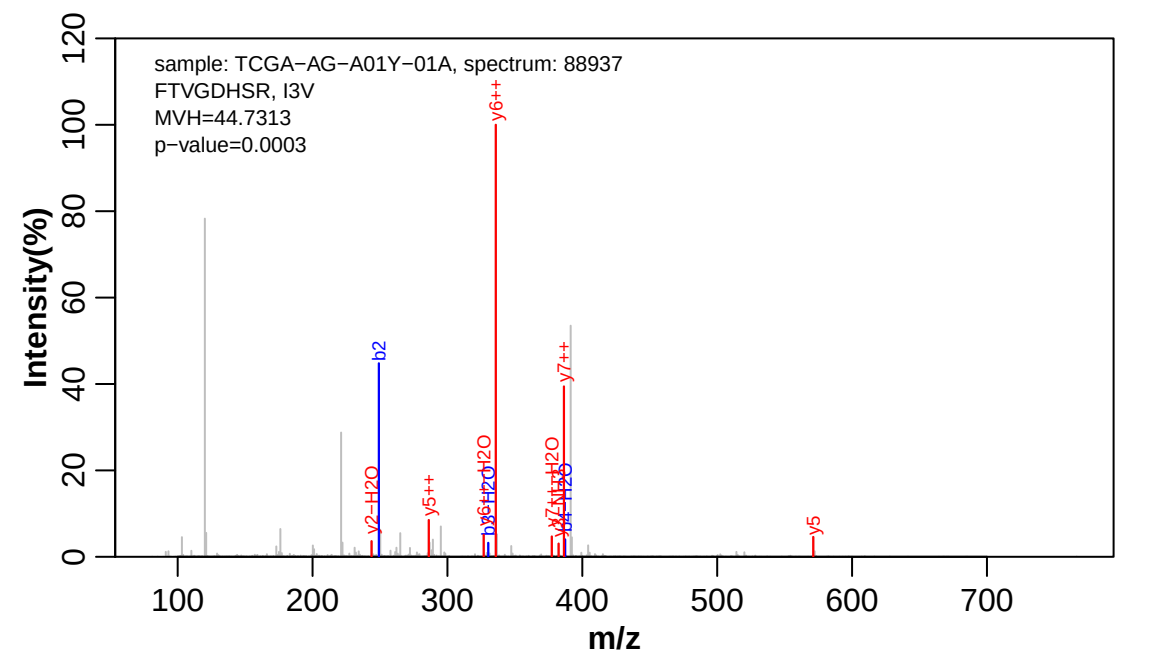

sample: TCGA−AG−A01Y−01A, spectrum: 34666
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=47.8665
p−value=0.0001
Intensity(%)
m/z
y24++
y20++
y22++
y25++
b9
b5−H2O
b5

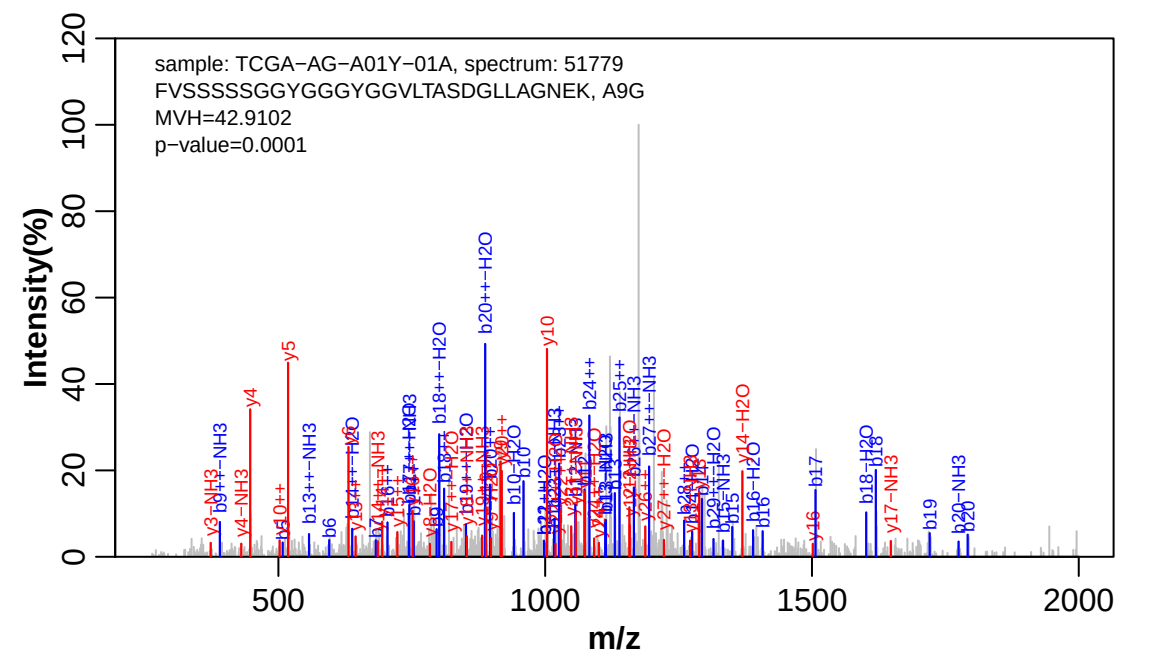

sample: TCGA−AG−A01Y−01A, spectrum: 119367
FFGSLPDSWAR, S11R
MVH=30.8186
p−value=0.0003
Intensity(%)
m/z
y6
b5−H2O
b5
b5−NH3
y4
b2
y5−H2O
b7−NH3
y7
y8
y9

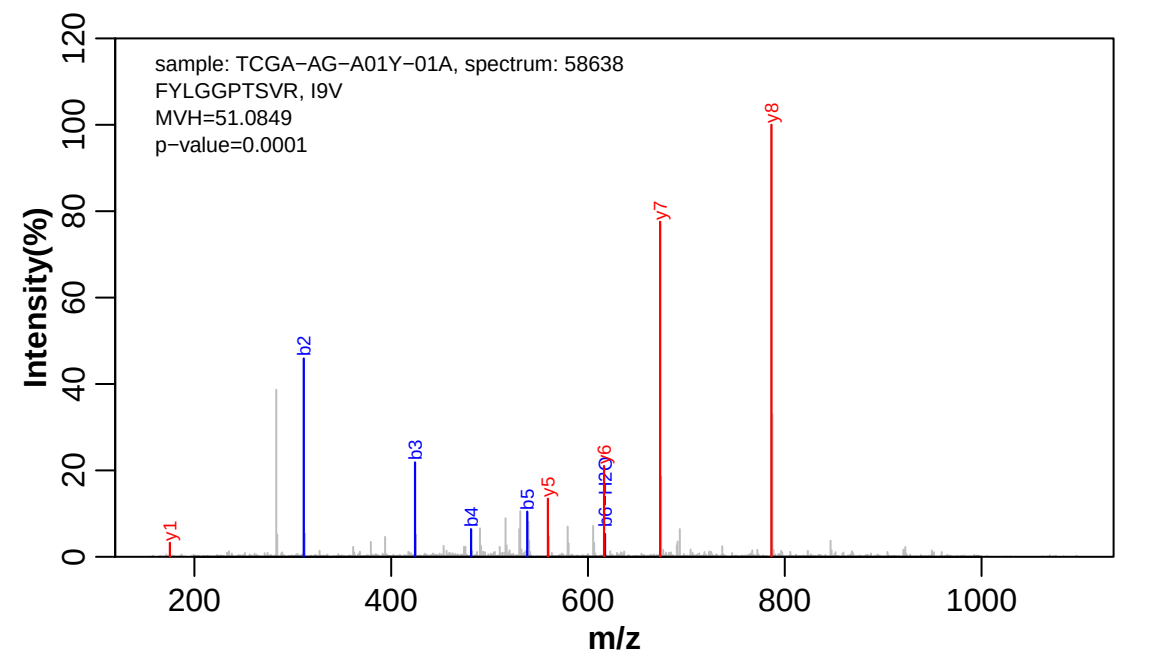

sample: TCGA−AG−A01Y−01A, spectrum: 48417
FLDKLPQQTGDR, H12R
MVH=36.9802
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y3
b6−NH3
b3
y7++
b7++−H2O
y4
y9++−H2O
y10++
y10++−H2O
y5
b5
y11++

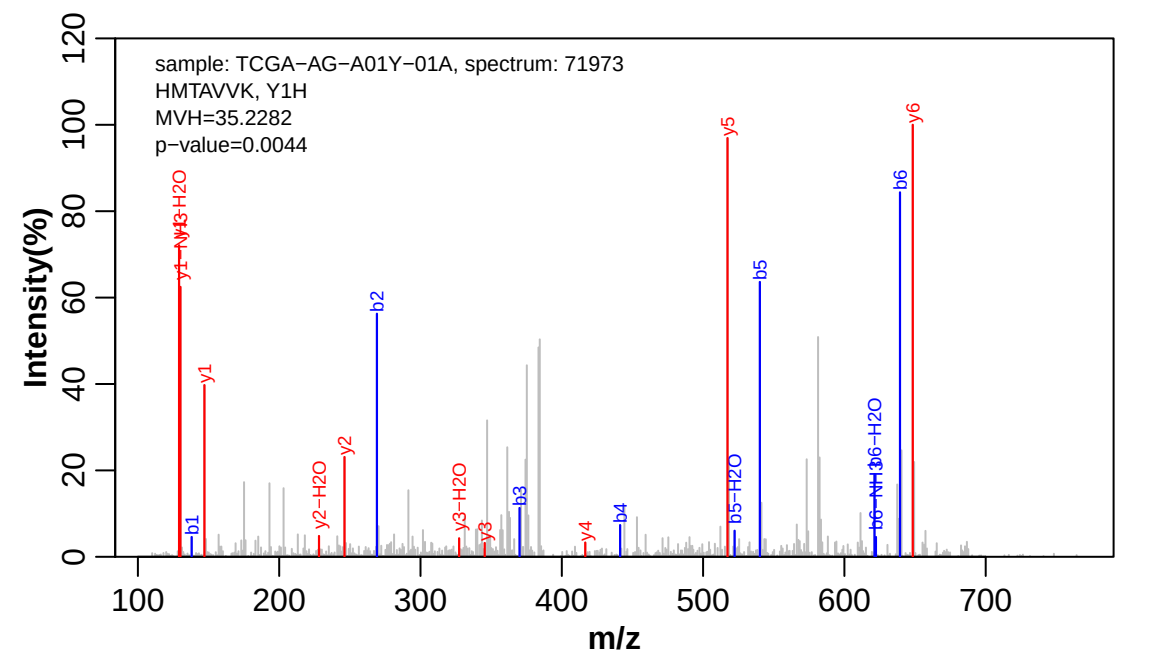

sample: TCGA−AG−A01Y−01A, spectrum: 7793
FNKPFVFLMLDQNTK, E11D
MVH=67.5215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−NH3
y3−H2O
b3−NH3
b3
y5
y6
y7
b6
b8
b9
y8

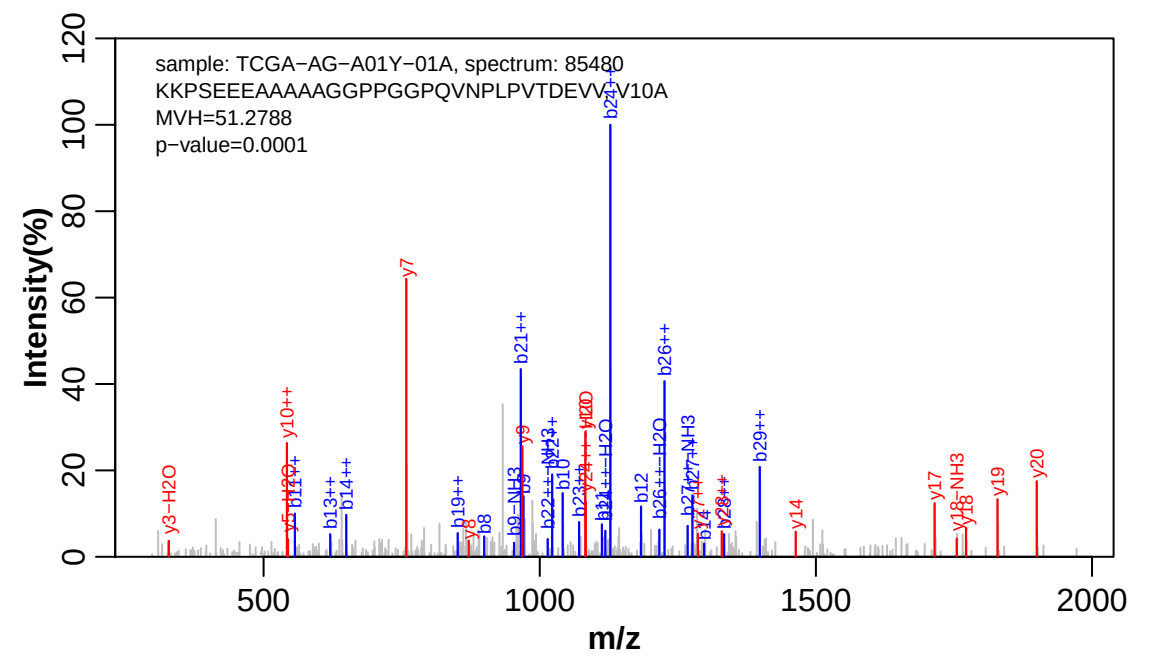

sample: TCGA−AG−A01Y−01A, spectrum: 68234
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=49.1723
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b2
b3−H2O
y8++
b4
y5
y17++
y8
y16++
y18++
b19++
b9
b10
b12
b12−NH3

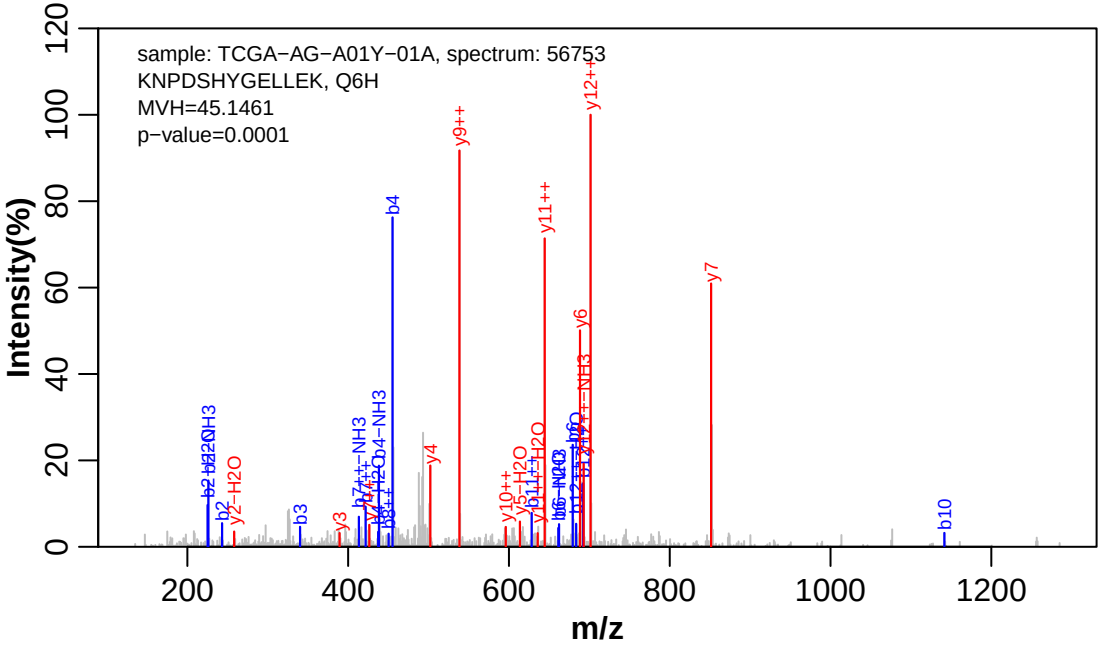

sample: TCGA−AG−A01Y−01A, spectrum: 88937
FTVGDHSR, I3V
MVH=44.7313
p−value=0.0003
Intensity(%)
m/z
y6++
b2
y2−H2O
y5++
y7++
y5

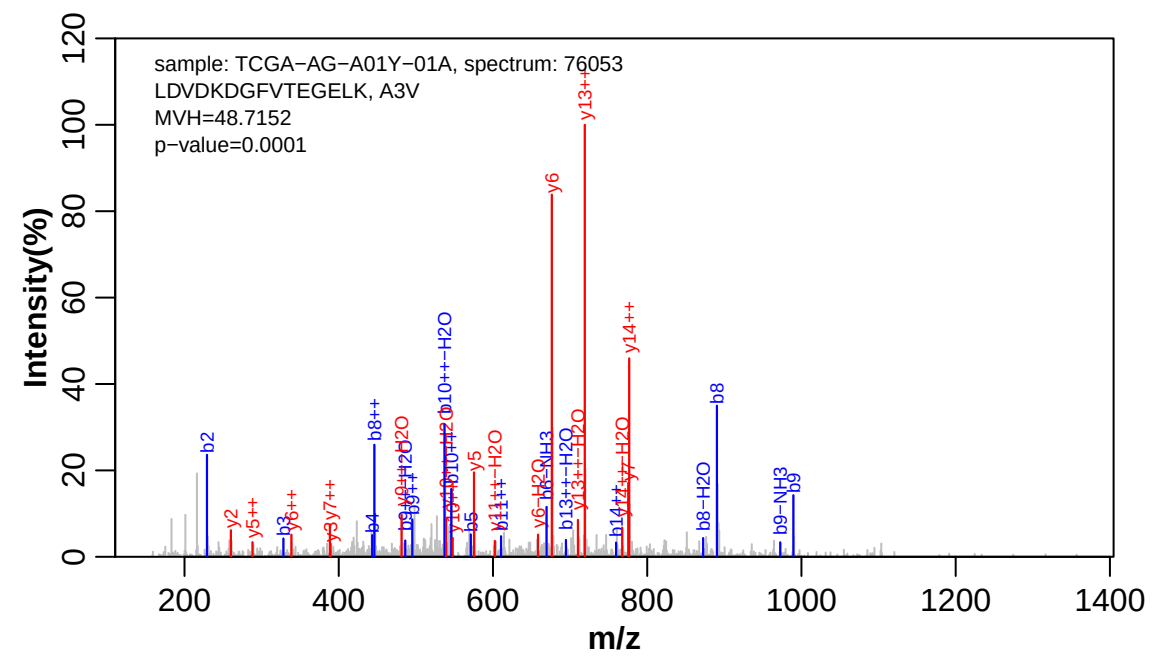

sample: TCGA−AG−A01Y−01A, spectrum: 51779
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=42.9102
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y5
y4
b20++−H2O
y10
b18++−H2O
b13++−NH3
b6
y4−NH3
y5++
b24++
b25++
b27++−NH3
y14−H2O
y16
b17
b18−H2O
y17−NH3
b19
b20−NH3

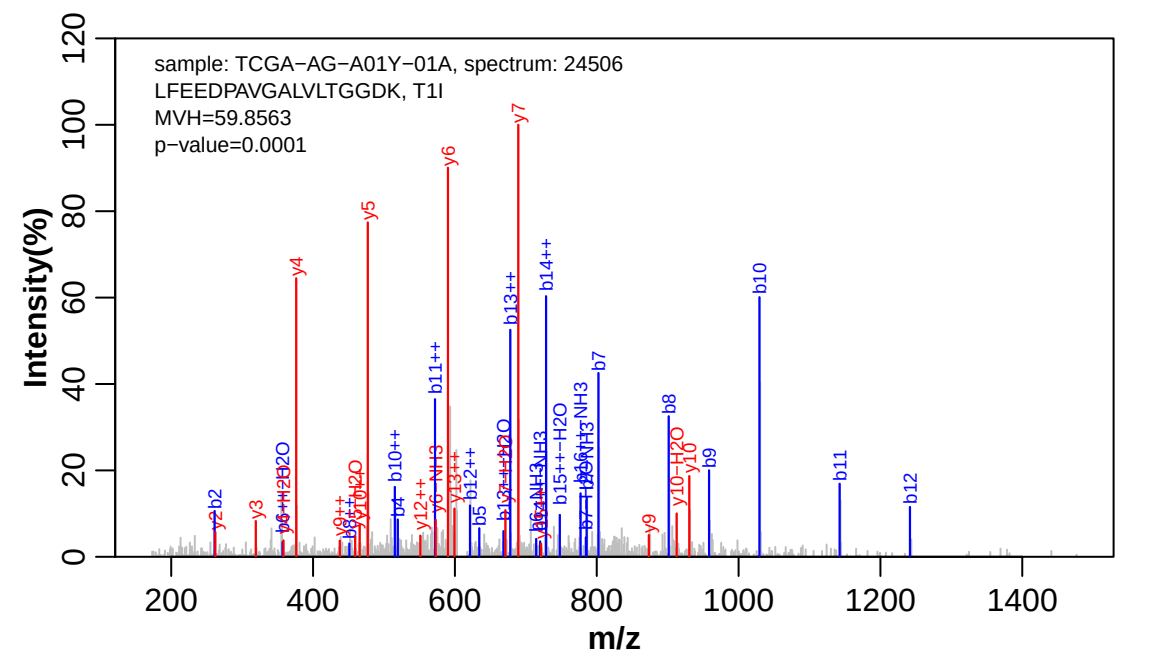

sample: TCGA−AG−A01Y−01A, spectrum: 58638
FYLGGPTSVR, I9V
MVH=51.0849
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

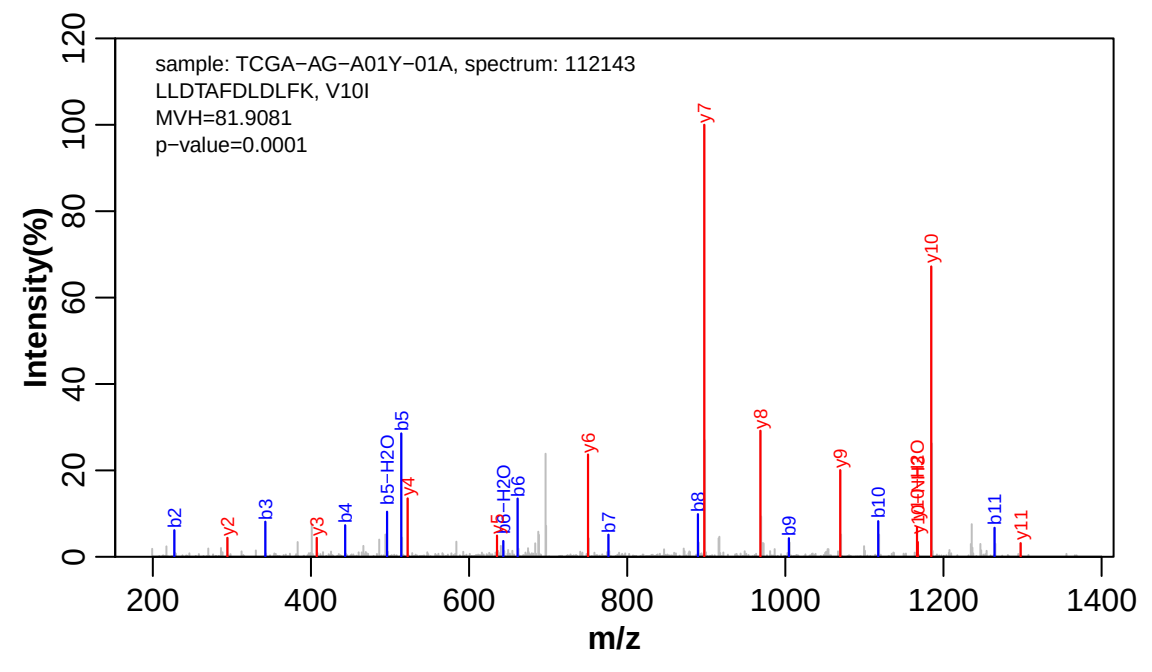

sample: TCGA−AG−A01Y−01A, spectrum: 71973
HMTAVVK, Y1H
MVH=35.2282
p−value=0.0044
Intensity(%)
m/z
y1−NH3−H2O
y1
b1
y2−H2O
y2
b2
y3−H2O
y3
b3
y4
b4
y5
b5−H2O
b5
b6−NH3−H2O
b6
y6

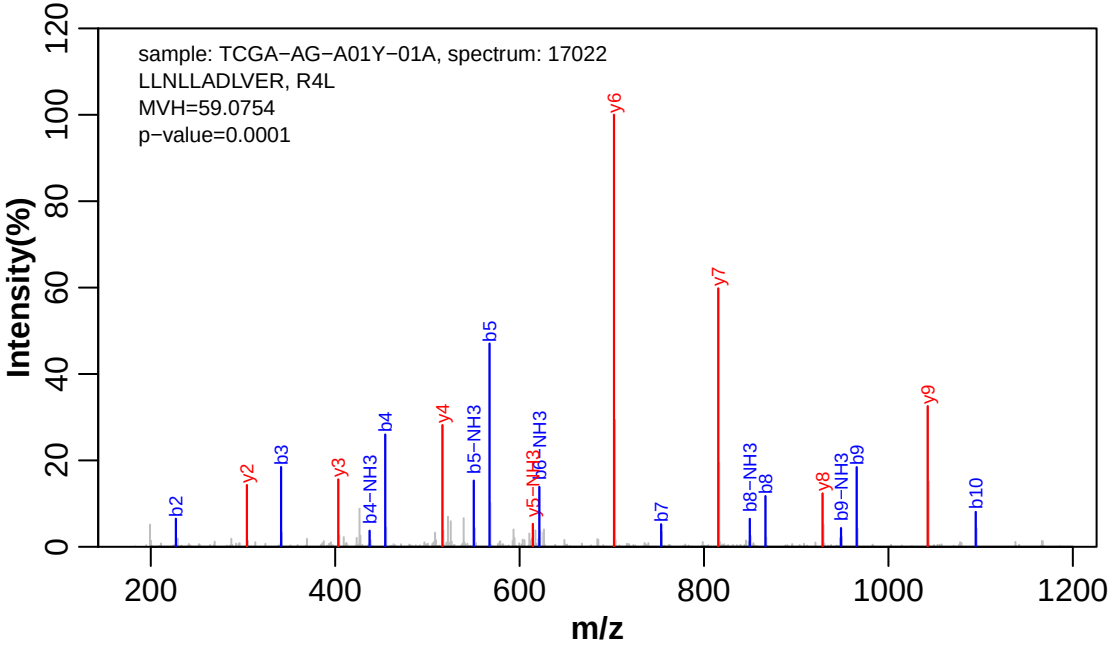

sample: TCGA−AG−A01Y−01A, spectrum: 85480
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=51.2788
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y3−H2O
y5−H2O
y10++
b11++
b13++
b14++
y7
b19++
y8
b8
b9−NH3
b9
y9
b21++
b22++−NH3
b10
b23++
y24++−H2O
b11++−H2O
b12
b26++−H2O
b26++
b27++−NH3
b14
y14
b28++
b29++
y17
y18−NH3
y18
y19
y20

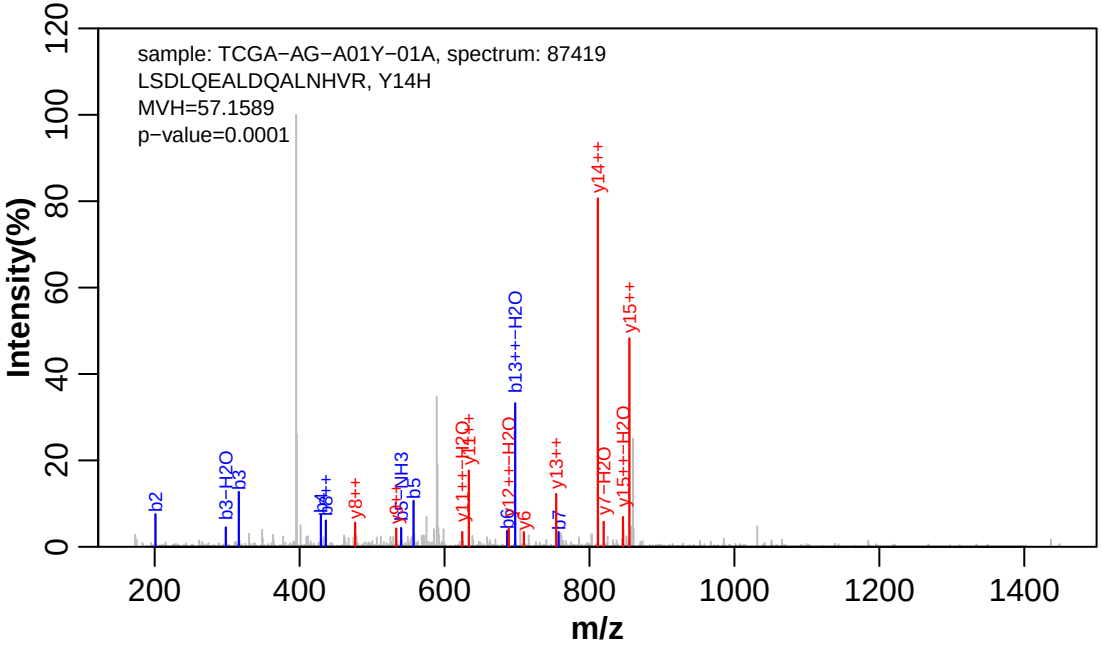

sample: TCGA−AG−A01Y−01A, spectrum: 56753
KNPDSHYGELLEK, Q6H
MVH=45.1461
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4
y9++
y12++
y11++
y7
y6
y4
b3
y3
y2−H2O
b2
b10

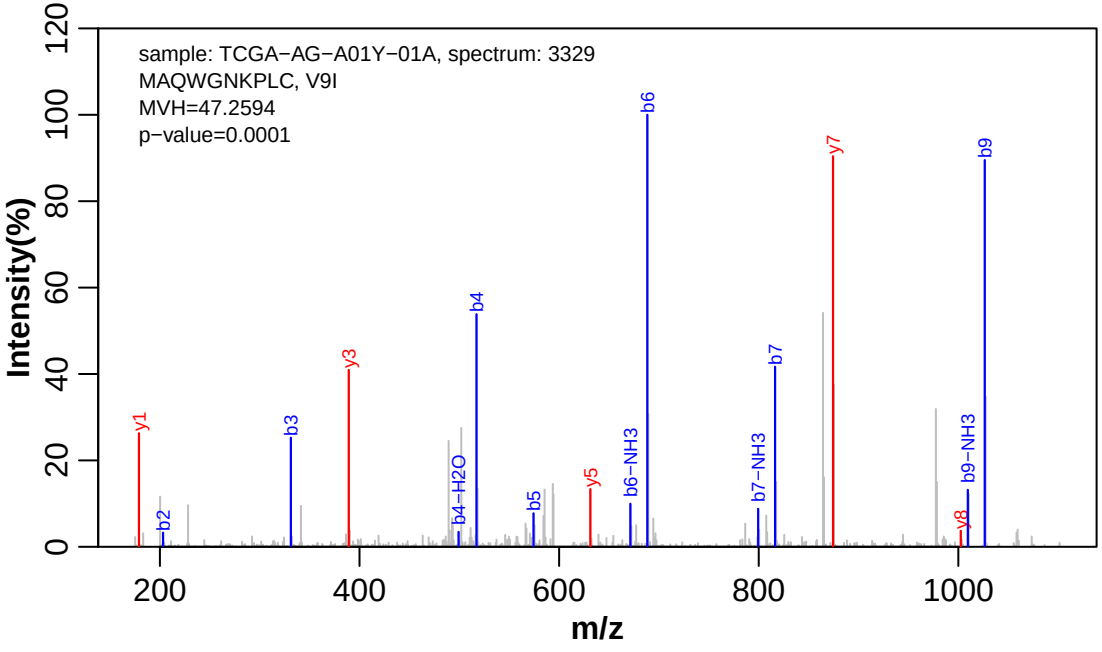

sample: TCGA−AG−A01Y−01A, spectrum: 76053
LDVDKDGFVTEGELK, A3V
MVH=48.7152
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y13++
y6
y14++
b8
b2
y2
y5++
b3
y6++
y3y7++
b4
b8++
b9++−H2O
y10++−H2O
b10++−H2O
y5
b5
b11++−H2O
y6−H2O
b8−NH3
b13++−H2O
y13++−H2O
y7++−H2O
b14++
b8−H2O
b9−NH3
b9

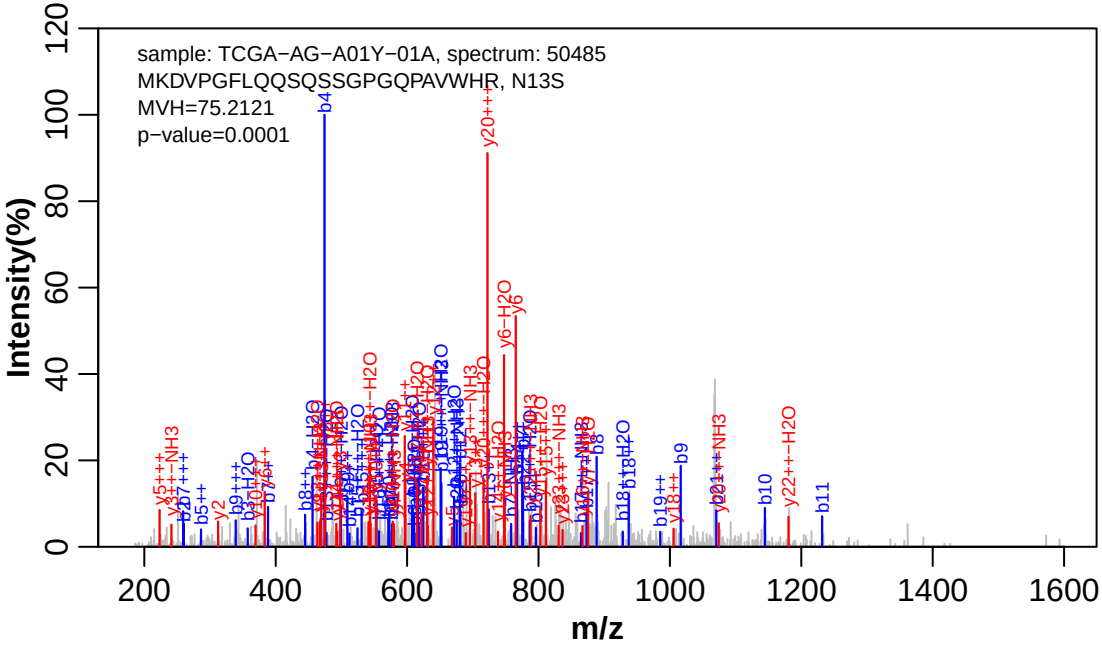

sample: TCGA−AG−A01Y−01A, spectrum: 24506
LFEEDPAVGALVLTGGDK, T1I
MVH=59.8563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y5
y4
y3
b2
b10
b11
b12
b14++
b13++
b7
b8
b9
y10
y9
b5
y12++
b10++
b11++
y13++
b12++
b13++H2O
b15++−H2O
b15++−NH3
y10−H2O

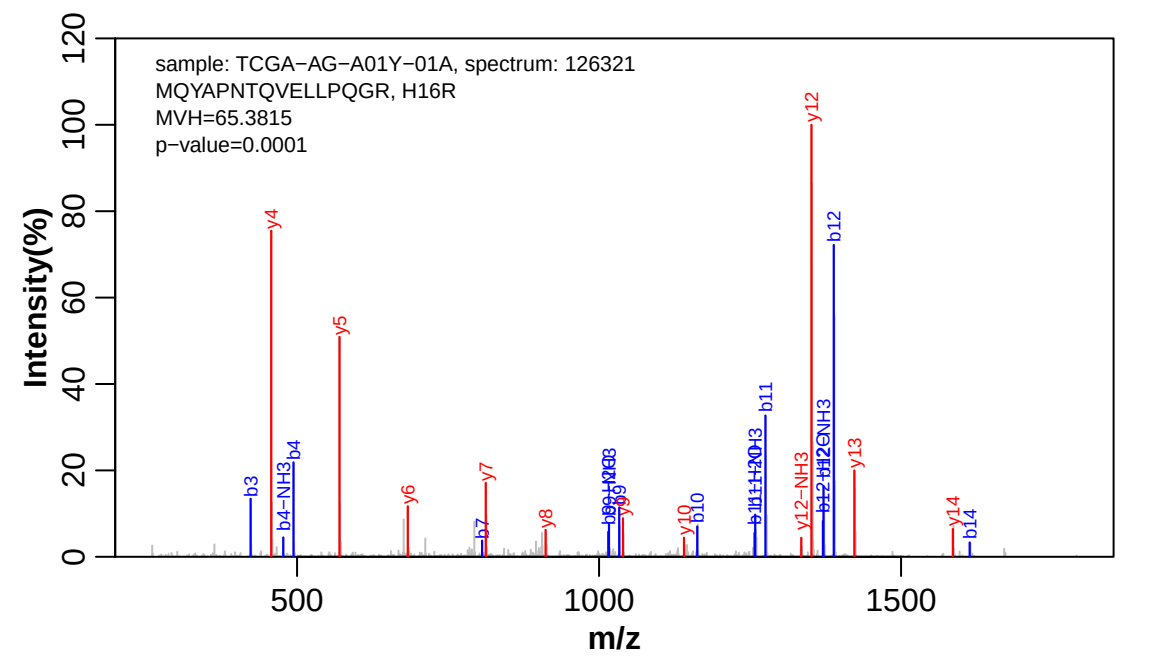

sample: TCGA−AG−A01Y−01A, spectrum: 112143
LLDTAFDLDLFK, V10I
MVH=81.9081
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y6
b7
b8
y7
y8
b9
y9
b10
y10−NH2
y10−H2O
y10
b11
y11

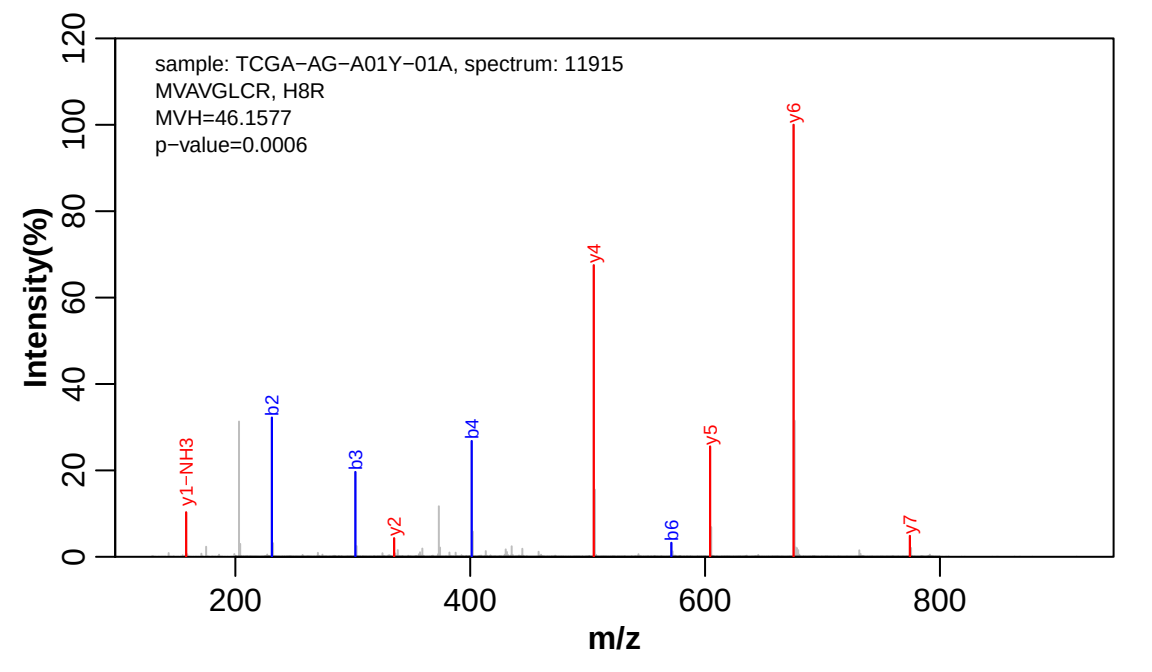

sample: TCGA−AG−A01Y−01A, spectrum: 17022
LLNLLADLVER, R4L
MVH=59.0754
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
y6
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

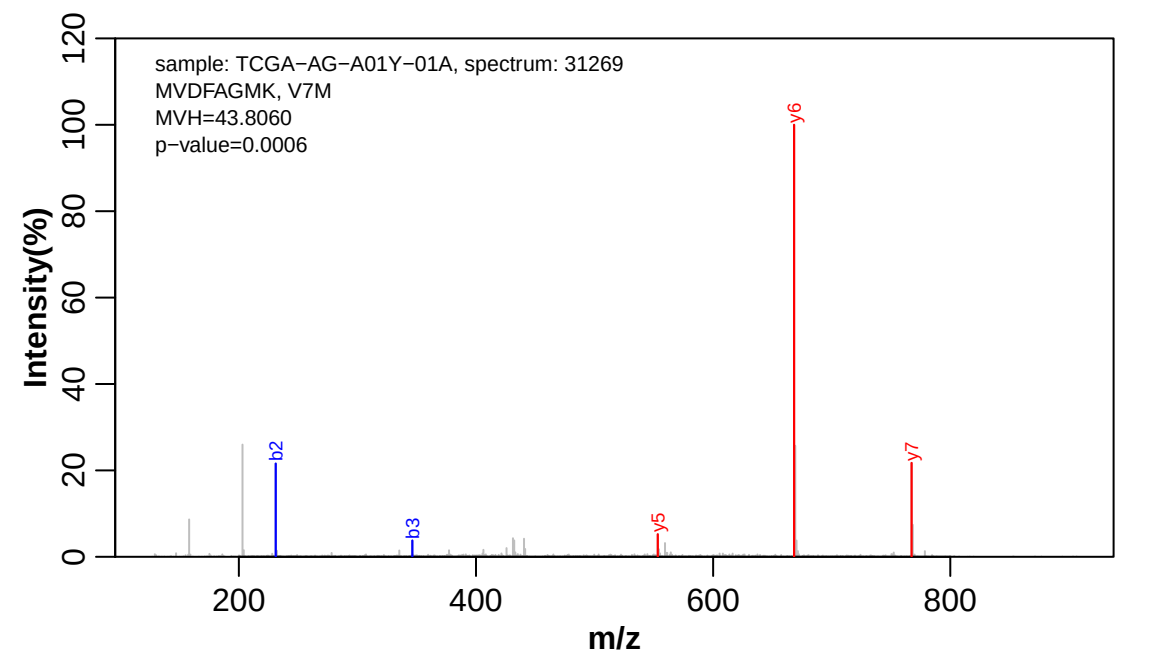

sample: TCGA−AG−A01Y−01A, spectrum: 87419
LSDLQEALDQALNHVR, Y14H
MVH=57.1589
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b3−H2O
b3
b4
b4++
y8++
y9−NH3
y9
b5
y11++−H2O
y11++
y12++
b12++−H2O
b13++−H2O
y6
b7
y13++
y14++
y7−H2O
y15++−H2O
y15++

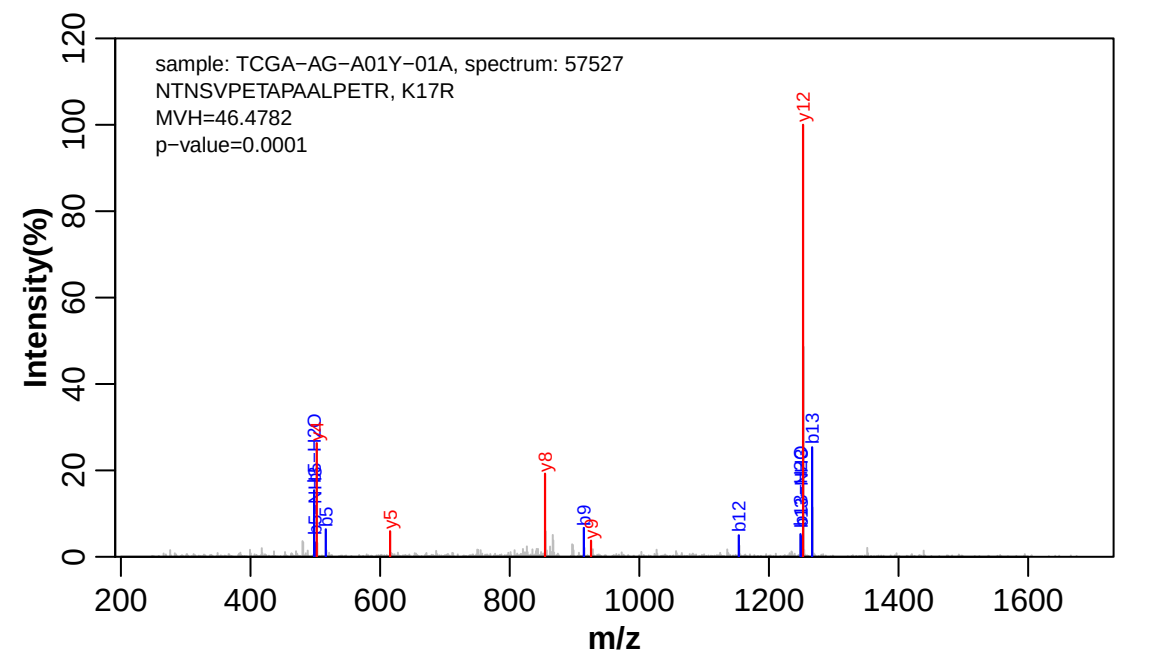

sample: TCGA−AG−A01Y−01A, spectrum: 3329
MAQWGNKPLC, V9I
MVH=47.2594
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
b3
y3
b4
b4−H2O
b5
y5
b6
b6−NH3
b7
b7−NH3
y7
y8
b9
b9−NH3

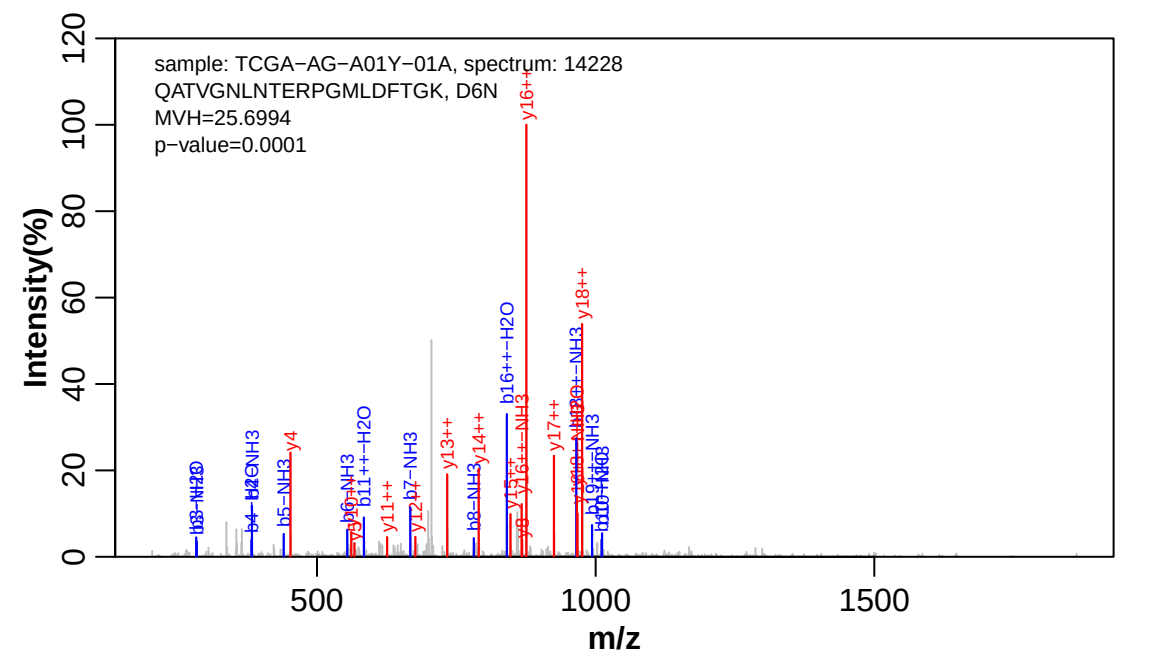

sample: TCGA−AG−A01Y−01A, spectrum: 50485
MKDVPGFLQQSQSSGPGQPAVWHR, N13S
MVH=75.2121
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b4
y20++
y6−H2O
y6
b8
b18
b18−H2O
b19++
b9
y18++
y20++−NH3
b10
y22++−H2O
b11
y5+++
y3++−NH3
b5++
y2
b9+++
b7++
b7*++

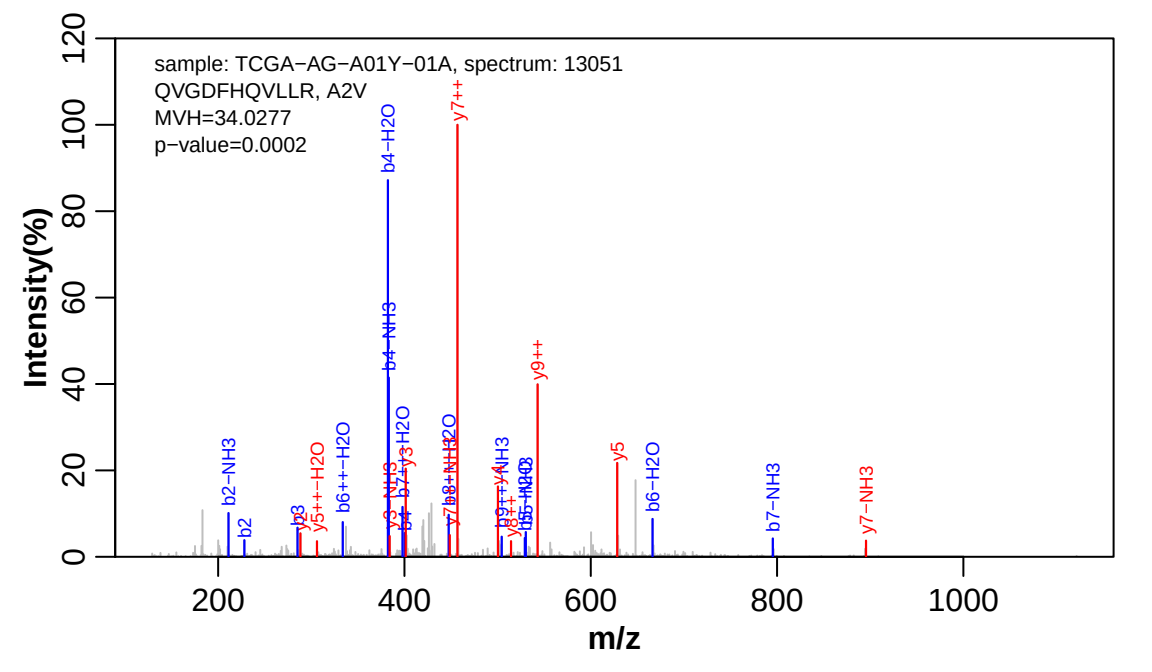

sample: TCGA−AG−A01Y−01A, spectrum: 126321
MQYAPNTQVELLPQGR, H16R
MVH=65.3815
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y4
b12
y5
b11
b12−NH3
y13
b3
b4
b4−NH3
y6
y7
y12−NH3
y8
y10
b10
y14
b14
b7

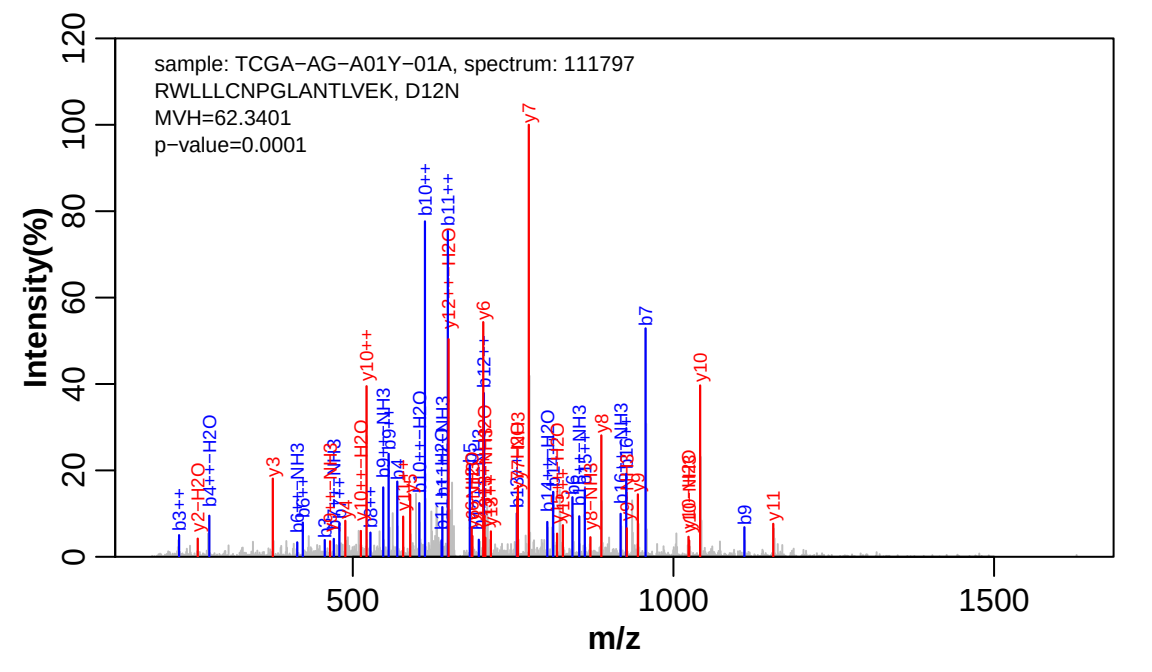

sample: TCGA−AG−A01Y−01A, spectrum: 11915
MVAVGLCR, H8R
MVH=46.1577
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
b2
b3
y2
b4
y4
b6
y5
y6
y7

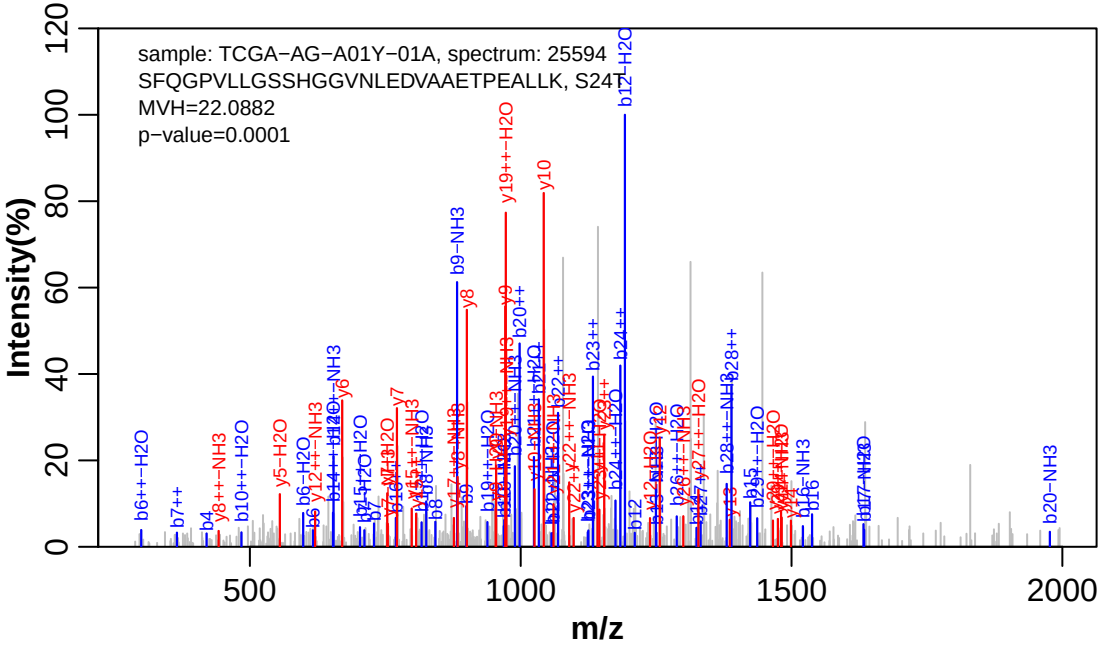

sample: TCGA−AG−A01Y−01A, spectrum: 31269
MVDFAGMK, V7M
MVH=43.8060
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
b3
y5
y6
y7

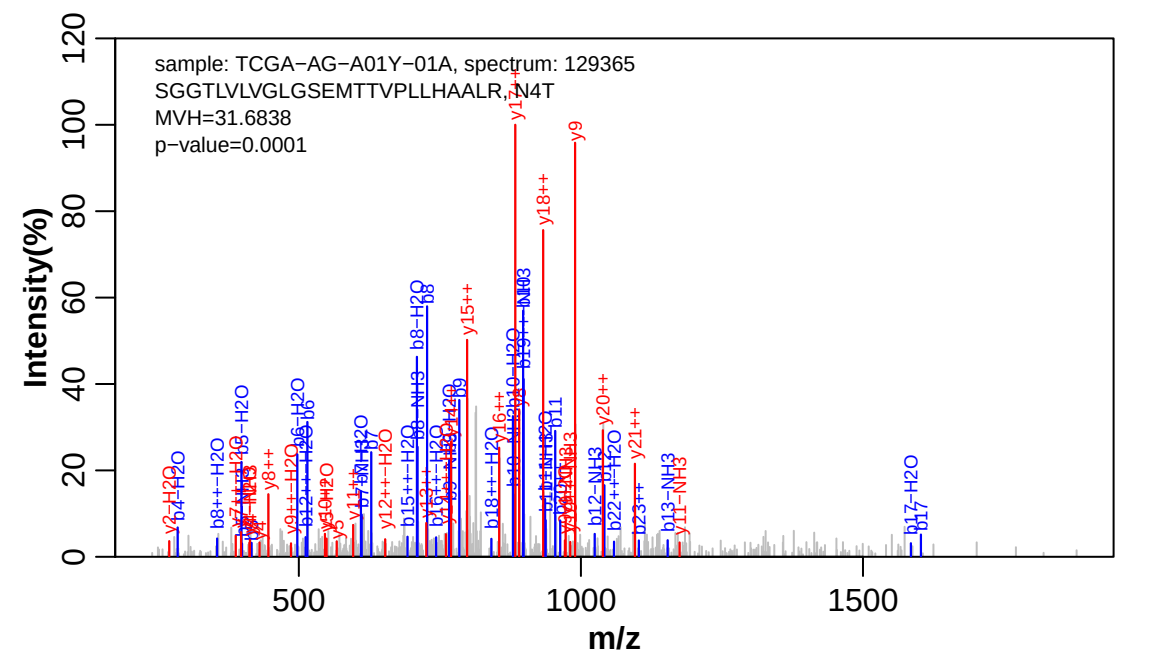

sample: TCGA−AG−A01Y−01A, spectrum: 57527
NTNSVPETAPAALPETR, K17R
MVH=46.4782
p−value=0.0001
Intensity(%)
m/z
y12
y8
y5
y9
b9
b12
b13
b5
y4
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

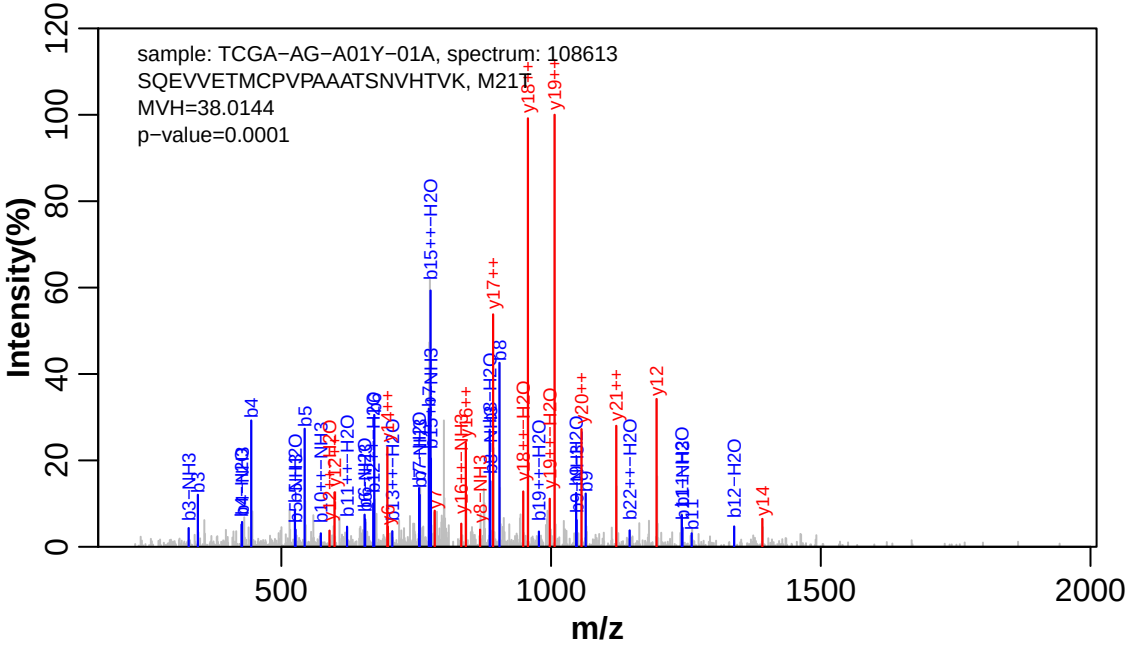

sample: TCGA−AG−A01Y−01A, spectrum: 14228
QATVGNLNTERPGMLDFTGK, D6N
MVH=25.6994
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y16++
y18++
b16++−H2O
y17++
y13++
y14++
b11++−H2O
y11++
b10−NH3
b8−NH3
b5−NH3
y4

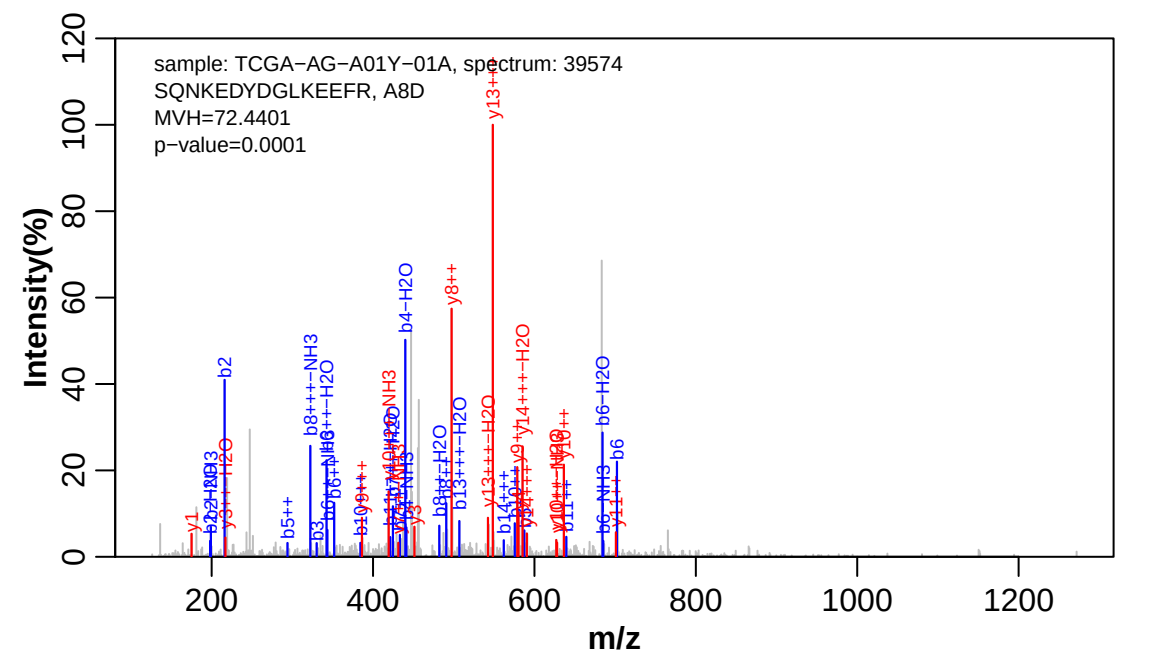

sample: TCGA−AG−A01Y−01A, spectrum: 13051
QVGDFHQVLLR, A2V
MVH=34.0277
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b4−H2O
y7++
b4−NH3
y9++
b2−NH3
b2
y5++−H2O
b6++−H2O
y5
b6−H2O
b7−NH3
y7−NH3

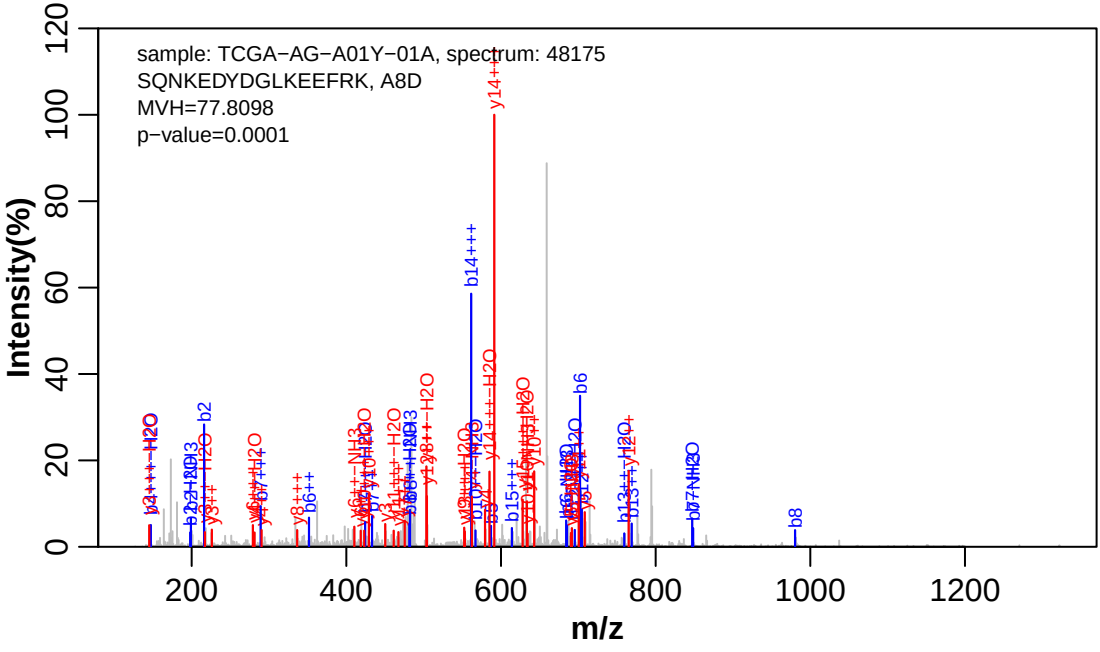

sample: TCGA−AG−A01Y−01A, spectrum: 111797
RWLLLCNPGLANTLVEK, D12N
MVH=62.3401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3++
y2−H2O
b4++−H2O
y3
b6++−NH3
y10++−H2O
b8++
y10++
b9++−NH3
y7++
b4
y5
b10++−H2O
b10++
b11++
y12++−H2O
y6
b12++
y7
b7
y8
y10
b9
y11

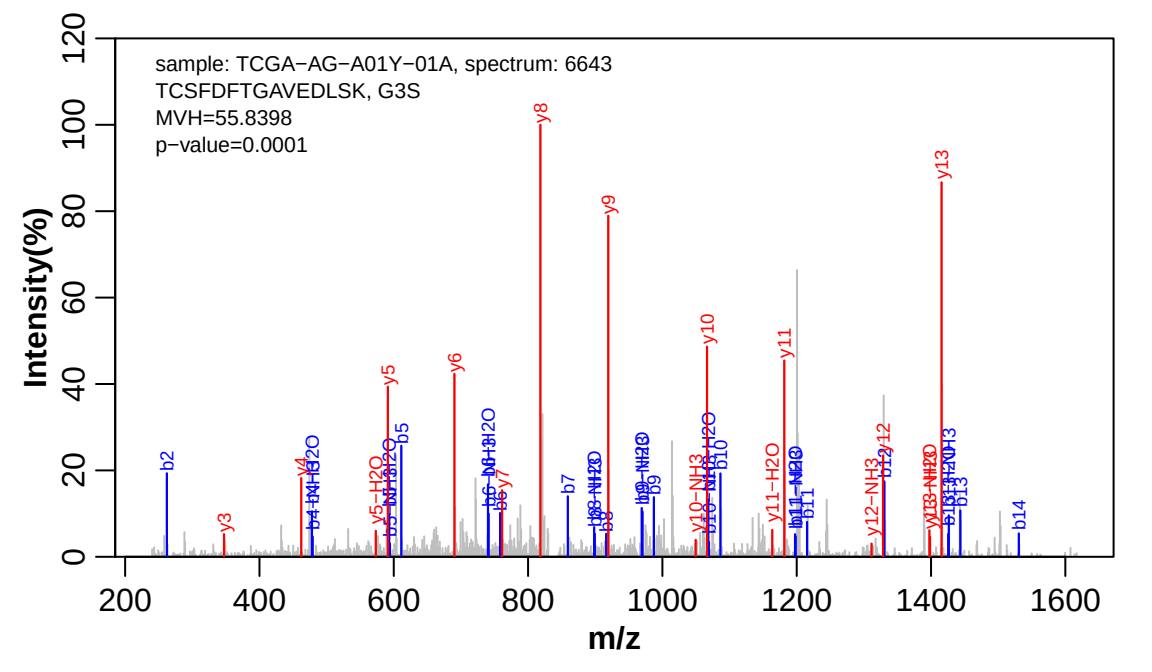

sample: TCGA−AG−A01Y−01A, spectrum: 25594
SFQGPVLLGSSHGGVNLEDVAAETPEALLK, S247
MVH=22.0882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b12−H2O
y19++−H2O
y10
b9−NH3
y8
b20++
b24++
b23++
y6
b20−NH3
y5−H2O
b6++−H2O
b7++
b4
y8++−NH3
b10++−H2O
b6−H2O
b6
y12++−NH3
b14++
b12++
b15++−H2O
b7−H2O
b7
b16−H2O
b8
b8−NH3
y7
y17++−NH3
b5
y6−NH3
b19++−H2O
b18++−H2O
b18++−NH3
y9
y20++−NH3
y10−H2O
y10−NH3
y22++−NH3
y2
y22++
b23++−H2O
b24++−H2O
b12
b12−H2O
b26++−H2O
b26++−NH3
b28++
y13
b28++−NH3
b15++−H2O
b15
b16−NH3
b17−H2O
b17−NH3
b20−NH3

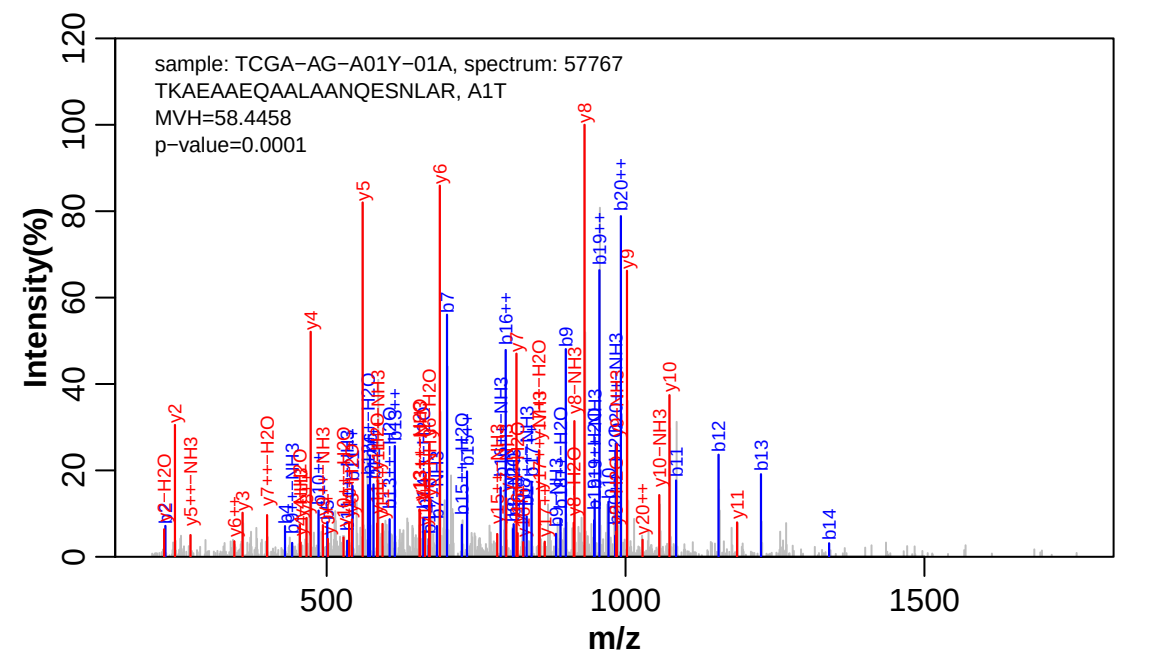

sample: TCGA−AG−A01Y−01A, spectrum: 129365
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=31.6838
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y9
y18++
y15++
y20++
y21++
b17−H2O
b17
b12−NH3
b13−NH3
y11−NH3
b22++H2O
b23++
y2−H2O
b4−H2O
b8++−H2O
y8++
y9++−H2O
y5
y12++−H2O
b15++−H2O
b8−NH3
b8−H2O
b18++−H2O
b10−H2O
b15+−NH3
b15+−H2O
y12+−H2O

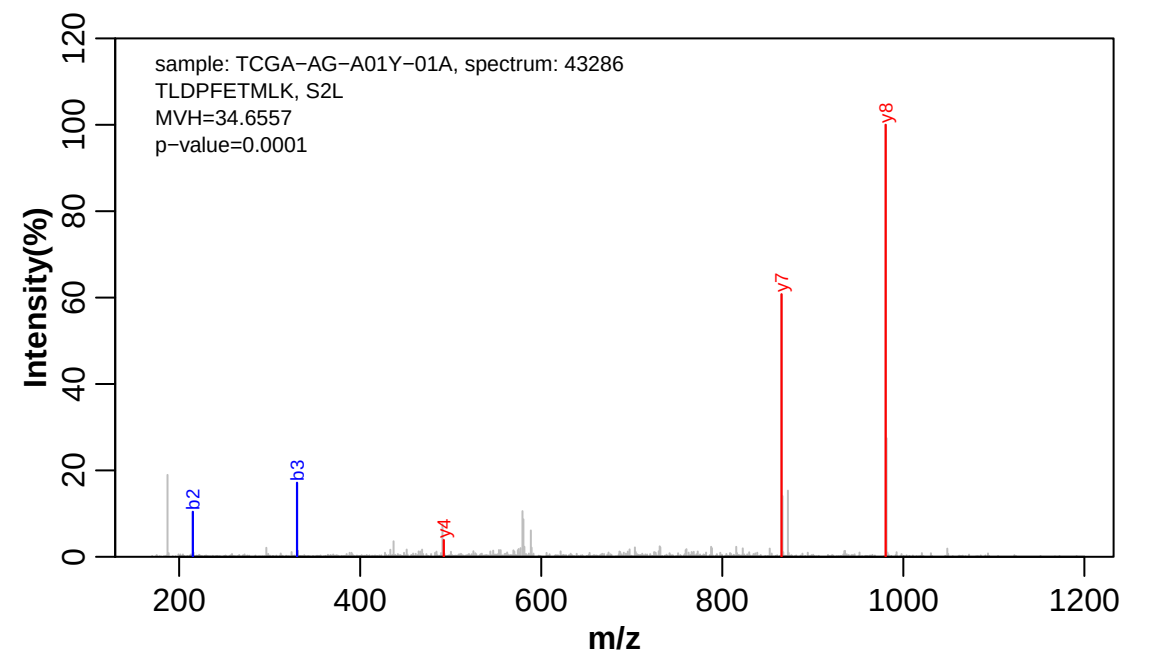

sample: TCGA−AG−A01Y−01A, spectrum: 108613
SQEVVETMCPVPAAATSNVHTVK, M21T
MVH=38.0144
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−NH3
b3
b4
b5
b15++−H2O
y18++
y19++
y17++
y12
y21++
y20++
y14
b12−H2O

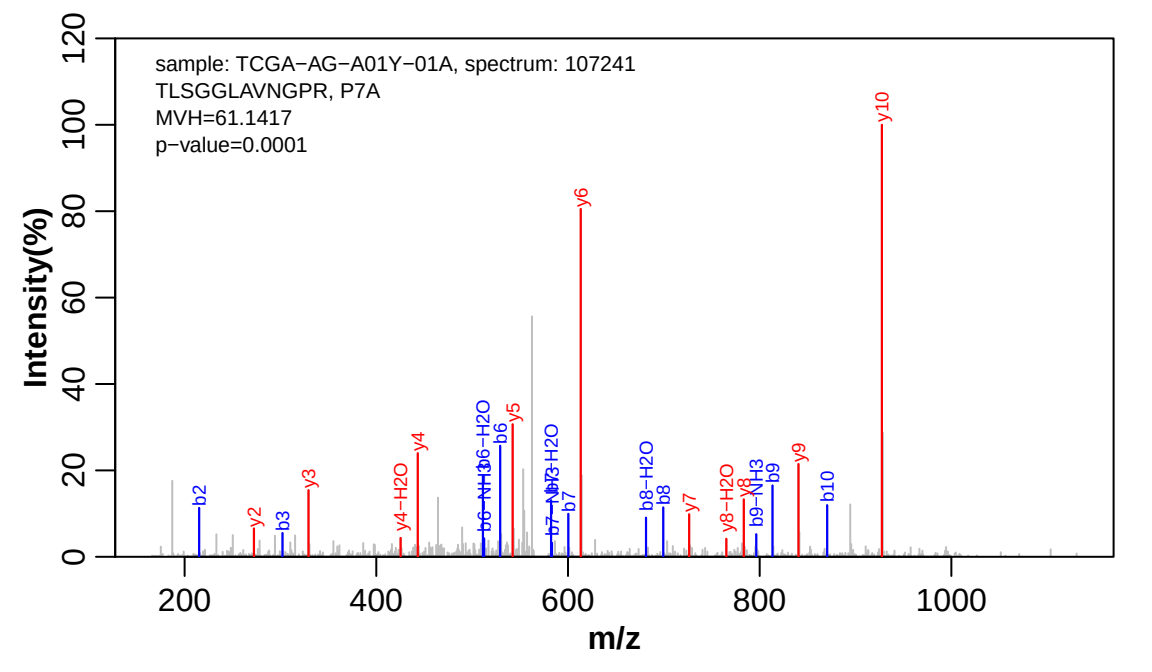

sample: TCGA−AG−A01Y−01A, spectrum: 39574
SQNKEDYDGLKEEFR, A8D
MVH=72.4401
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y13++
y8++
b4−H2O
b2
b8+++−NH3
b8++−H2O
b6++−H2O
b5++
b10+++
b13+++−H2O
y13+++−H2O
y14+++−H2O
b6−H2O
b6
y1
y3+++−H2O

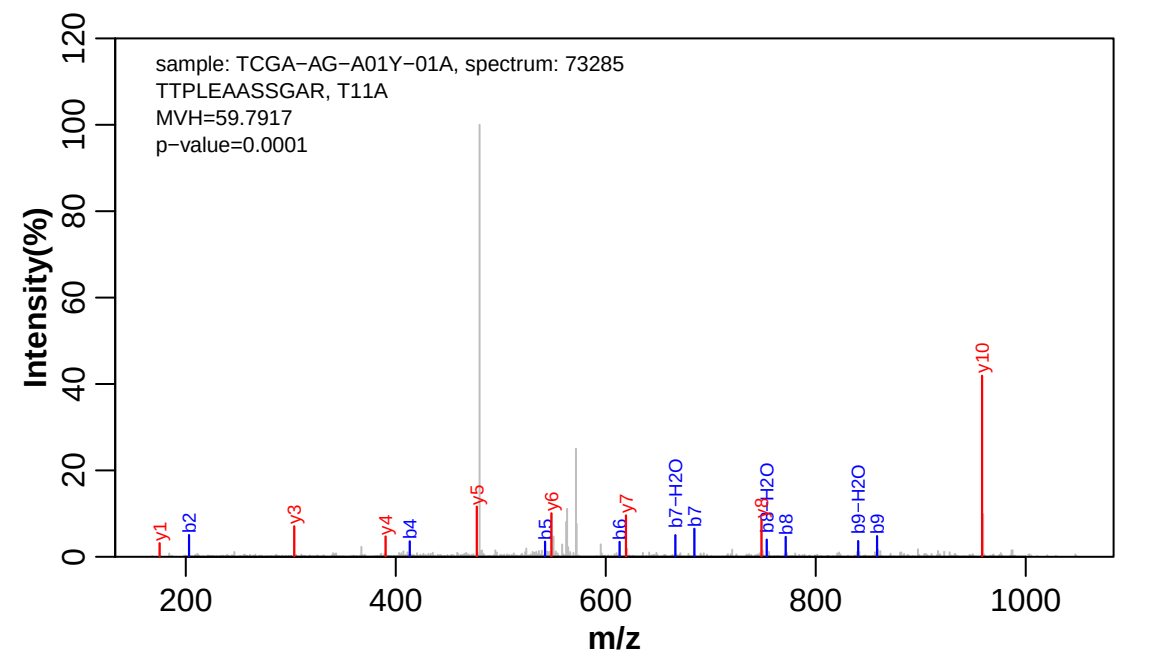

sample: TCGA−AG−A01Y−01A, spectrum: 48175
SQNKEDYDGLKEEFRK, A8D
MVH=77.8098
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y14+++
b14+++
b6
b8
y14+++−H2O

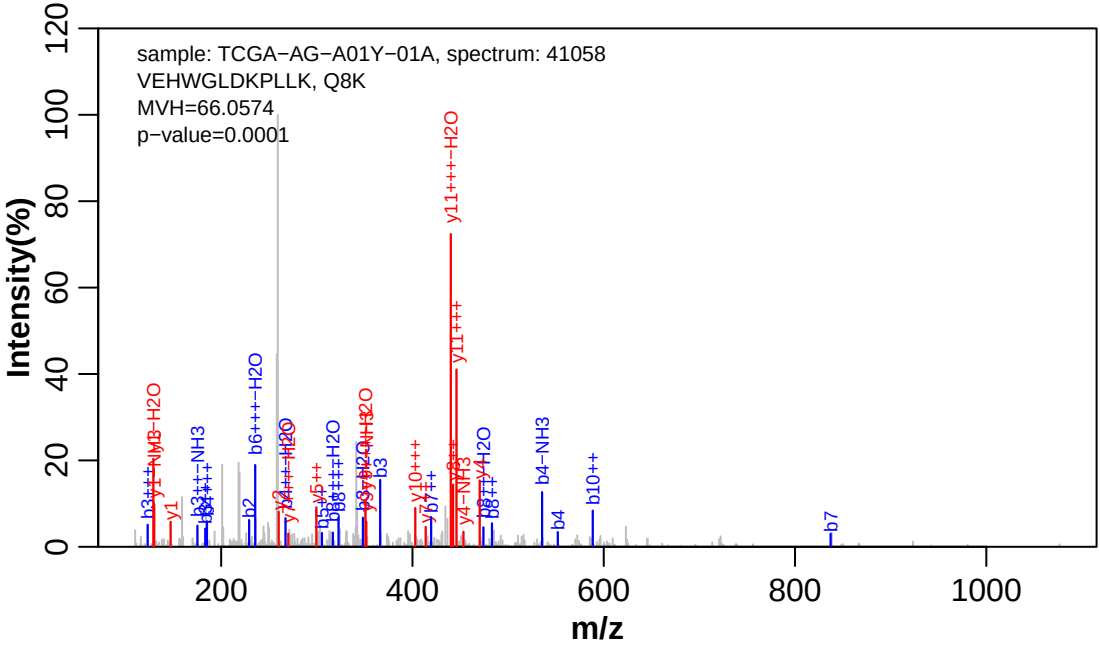

sample: TCGA−AG−A01Y−01A, spectrum: 6643
TCSFDFTGAVEDLSK, G3S
MVH=55.8398
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
y3
y4
y5
y6
y8
b7
y9
y10
y11
y12
y13
b14

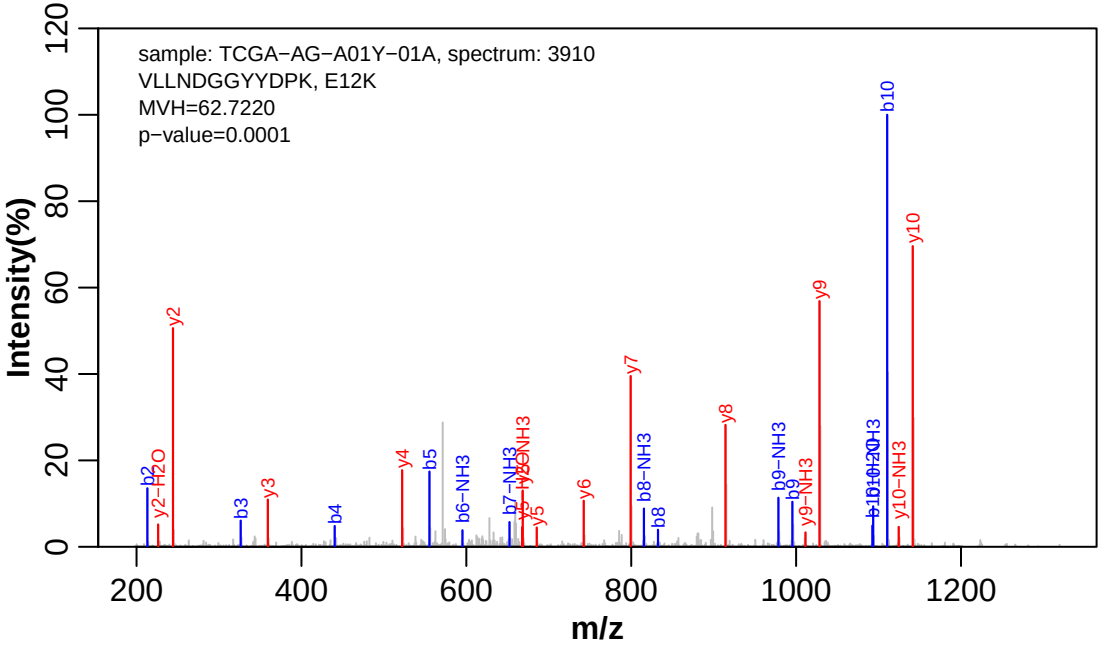

sample: TCGA−AG−A01Y−01A, spectrum: 57767
TKAEAAEQAALAANQESNLAR, A1T
MVH=58.4458
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y6
y5
b20++
b19++
y9
y4
b7
b16++
y2
y10
b12
b13
y11
b14
b2−H2O
y5++−NH3
y3
y7++−H2O
y8−NH3
y10−NH3
b11
y20++

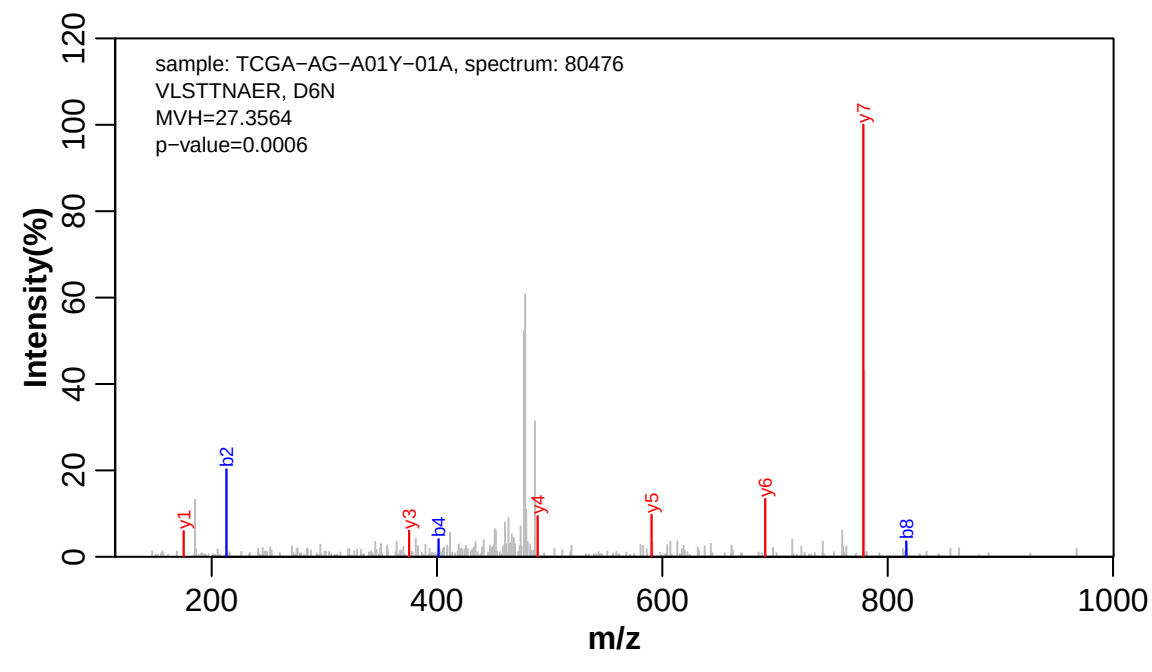

sample: TCGA−AG−A01Y−01A, spectrum: 43286
TLDPFETMLK, S2L
MVH=34.6557
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
b3
y4
y7
y8

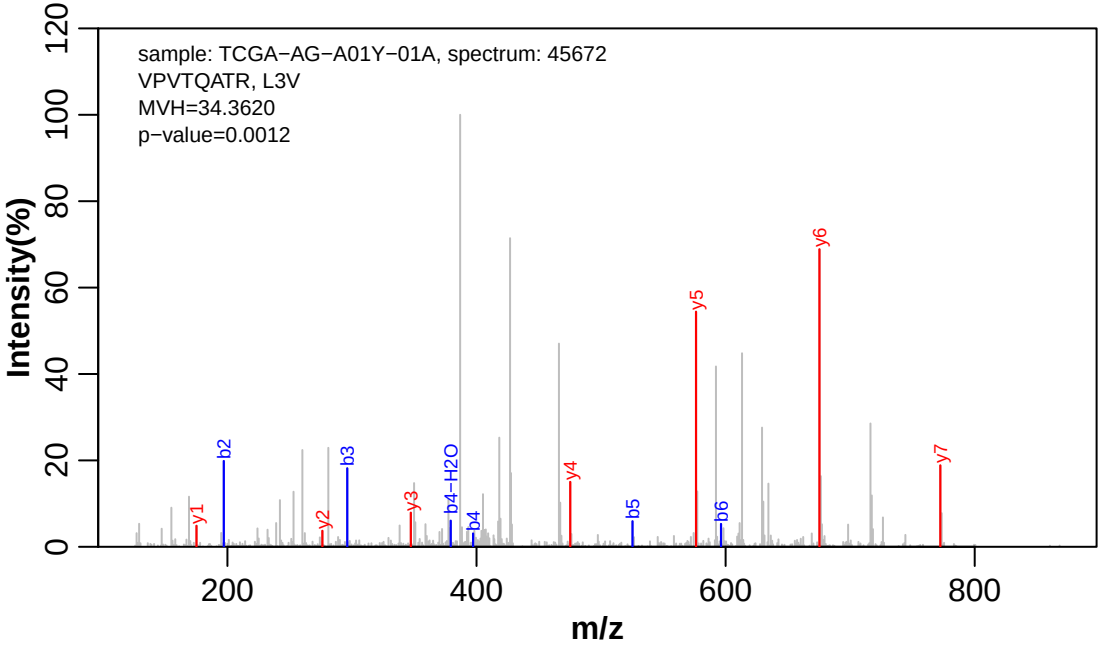

sample: TCGA−AG−A01Y−01A, spectrum: 107241
TLSGGLAVNGPR, P7A
MVH=61.1417
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y10
y6
y5
y4
y4−H2O
y3
y2
b2
b3
b6
b6−H2O
b6−NH3
b7
b7−H2O
b8
b8−H2O
y7
y8−H2O
y8
b9−NH3
b9
y9
b10

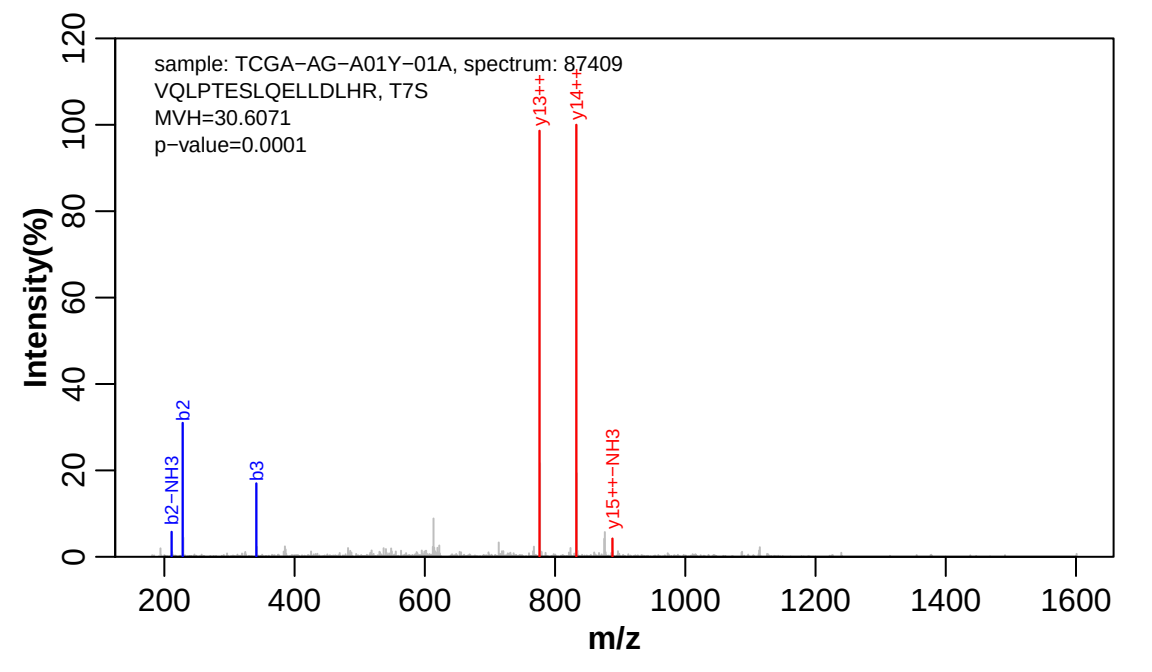

sample: TCGA−AG−A01Y−01A, spectrum: 73285
TTPLEAASSGAR, T11A
MVH=59.7917
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y3
y4
b4
y5
b5
y6
b6
y7
b7−H2O
b7
y8
b8−H2O
b8
b9−H2O
b9
y10

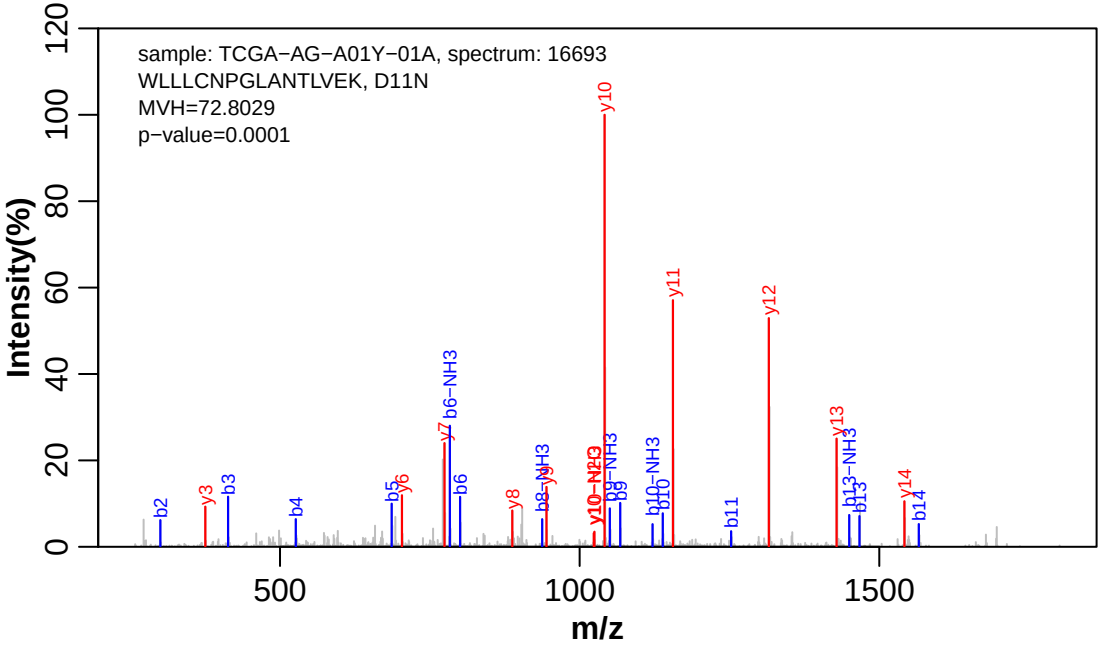

sample: TCGA−AG−A01Y−01A, spectrum: 41058
VEHWGLDKPLLK, Q8K
MVH=66.0574
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y11+++−H2O
y11+++
b6+++−H2O
b4−NH3
b10++
b7
b4
b2
b3
y10+++
y4−NH3
y1

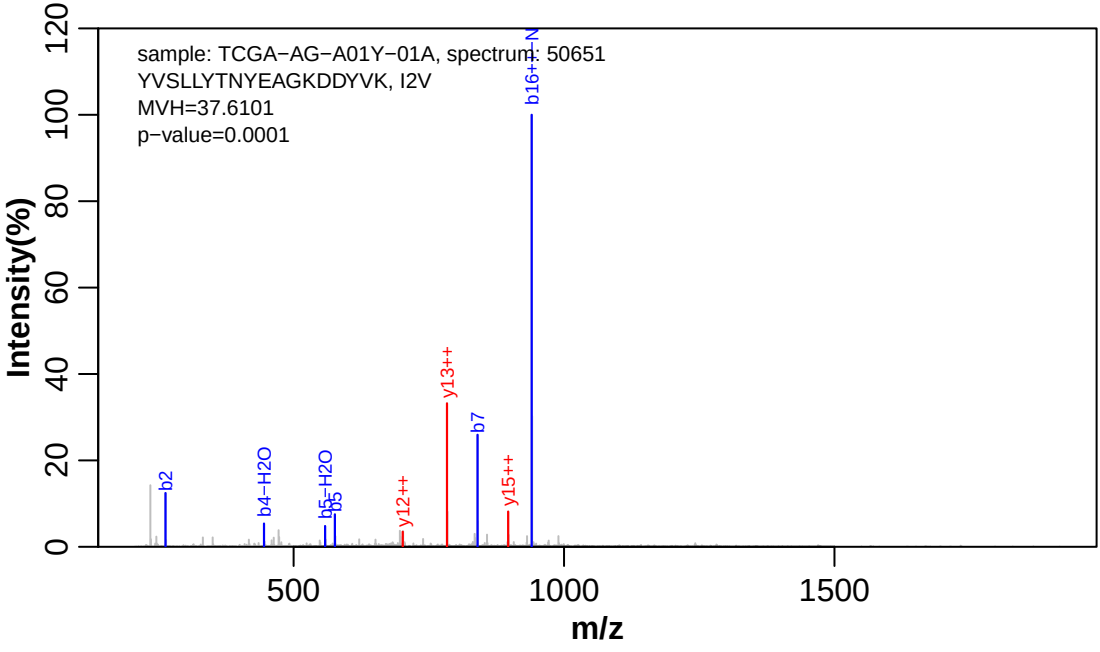

sample: TCGA−AG−A01Y−01A, spectrum: 3910
VLLNDGGYYDPK, E12K
MVH=62.7220
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2−H2O
y2
b3
y3
b4
y4
b5
b6−NH3
b7−NH3
y5−NH3
y5
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9−NH3
y9
b10−NH3
b10−H2O
b10
y10−NH3
y10

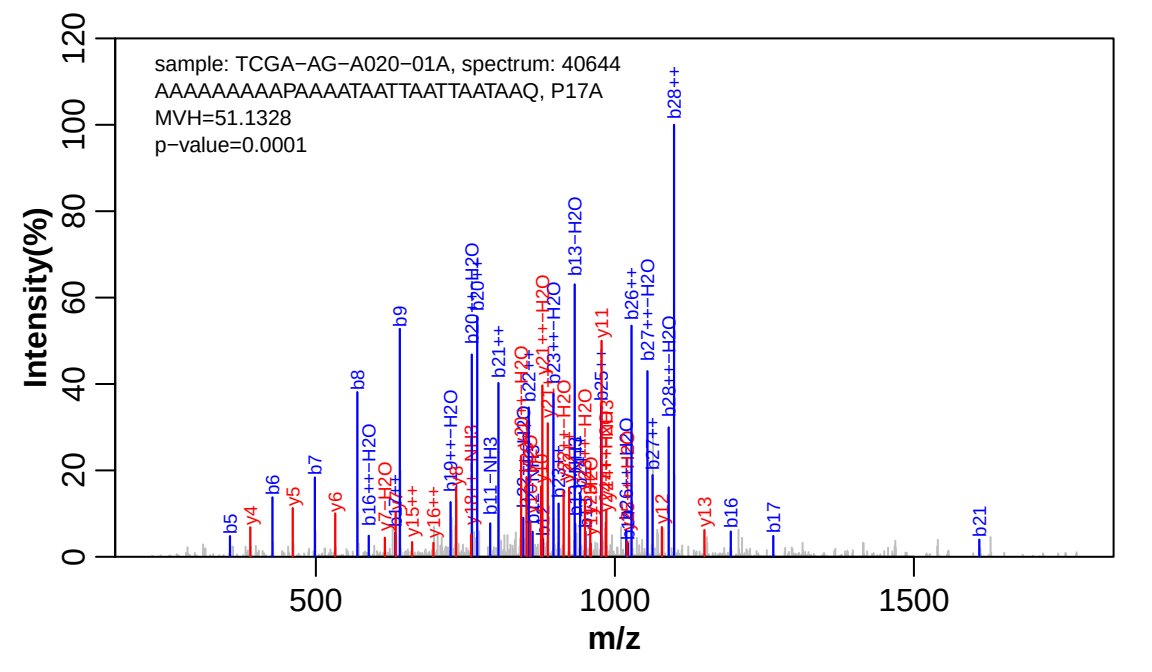

sample: TCGA−AG−A01Y−01A, spectrum: 80476
VLSTTNAER, D6N
MVH=27.3564
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
y1
b2
y3
b4
y4
y5
y6
y7
b8

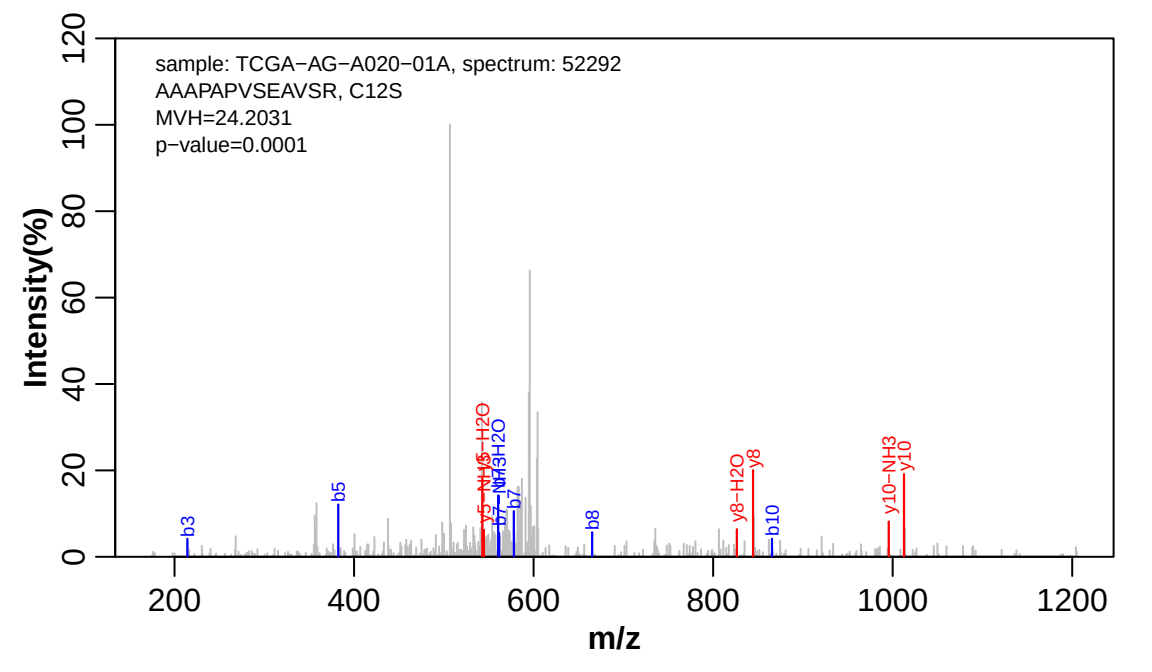

sample: TCGA−AG−A01Y−01A, spectrum: 45672
VPVTQATR, L3V
MVH=34.3620
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4−H2O
b4
y4
b5
y5
b6
y6
y7

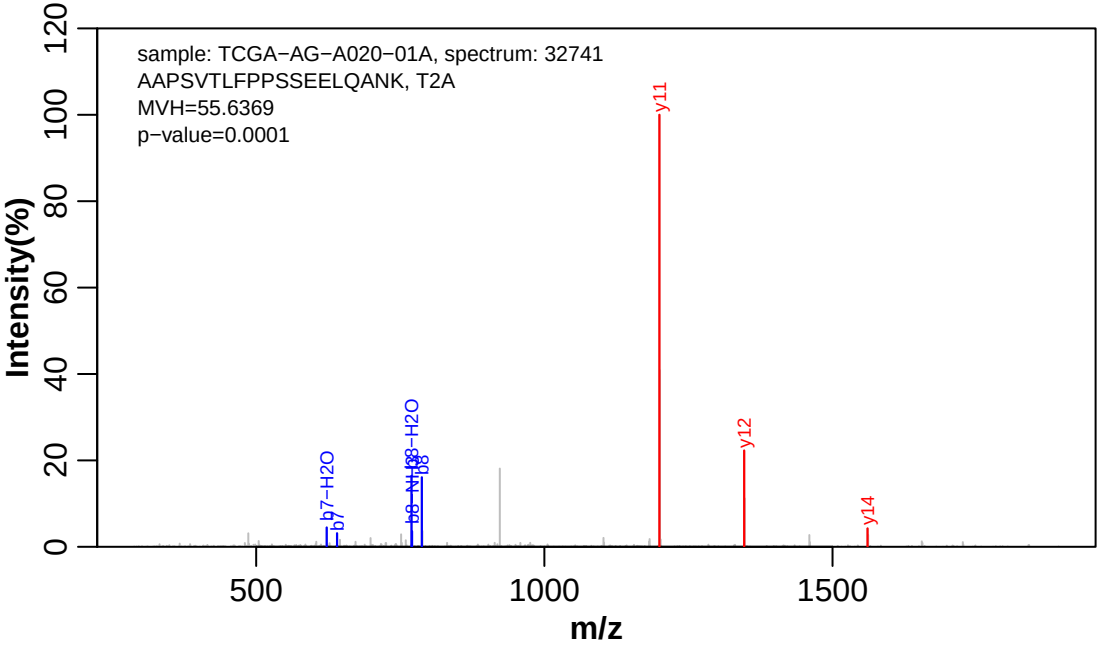

sample: TCGA−AG−A01Y−01A, spectrum: 87409
VQLPTESLQELLDLHR, T7S
MVH=30.6071
p−value=0.0001
y13++
y14++
y15++−NH3
b2
b2−NH3
b3
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

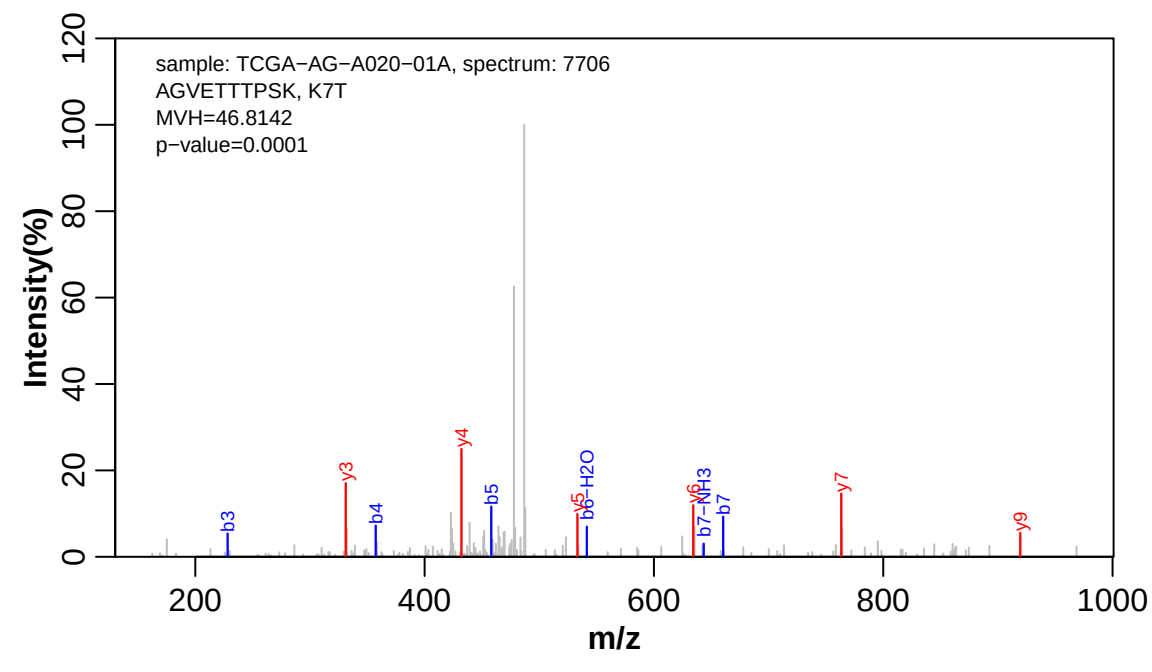

sample: TCGA−AG−A01Y−01A, spectrum: 16693
WLLLCNPGLANTLVEK, D11N
MVH=72.8029
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y3
b3
b4
b5
y6
y7
b6−NH3
b6
y8
b8−NH3
y10−NH3
b9−NH3
b10−NH3
y11
y12
b11
y13
b13−NH3
y14
b14
y10

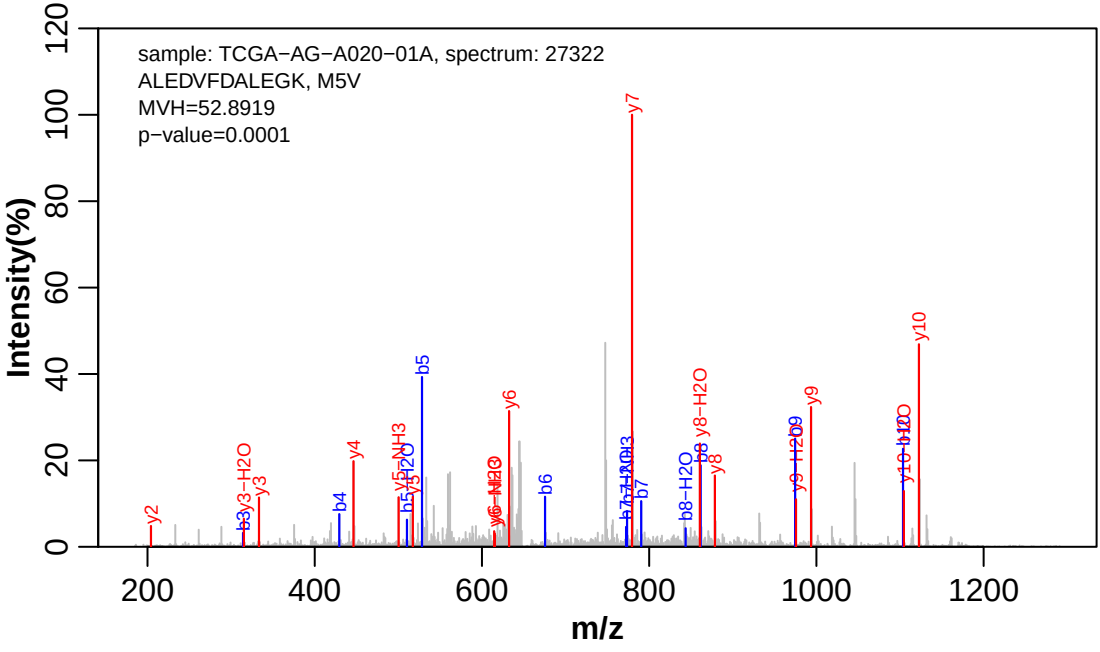

sample: TCGA−AG−A01Y−01A, spectrum: 50651
YVSLLYTNYEAGKDDYVK, I2V
MVH=37.6101
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b4−H2O
b5−H2O
b5
y12++
y13++
b7
y15++
b16++−N

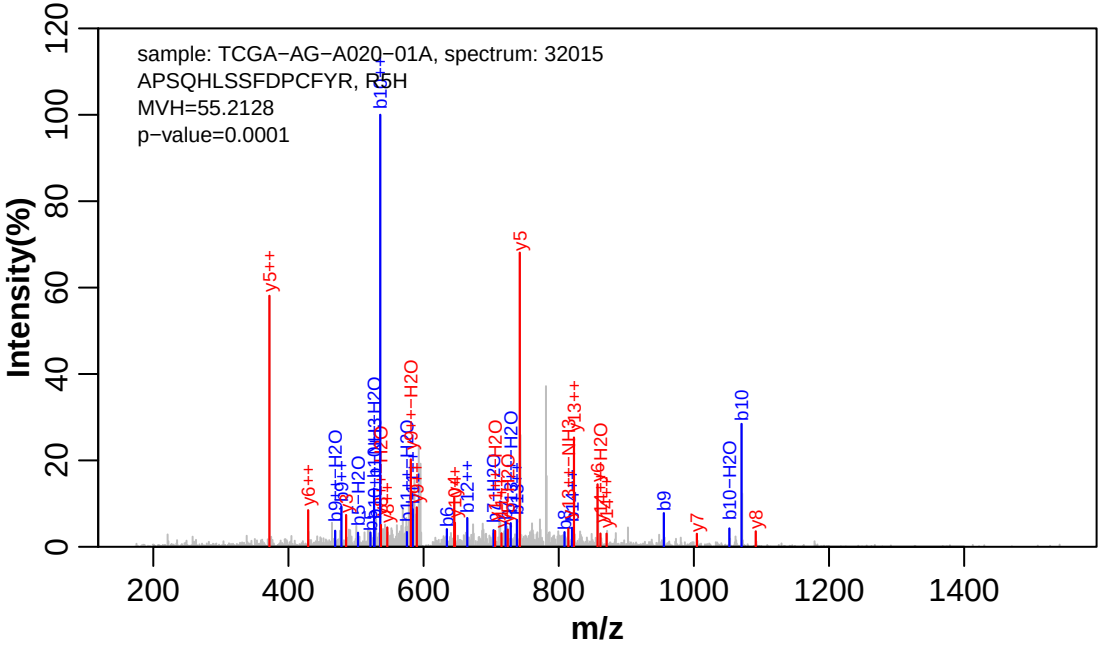

sample: TCGA−AG−A020−01A, spectrum: 40644
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=51.1328
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b5
y4
b6
y5
b7
y6
b8
b16++−H2O
y7−H2O
b17++
y15++
y16++
b9
b18++−H2O
b20++−H2O
b11−NH3
b21++
b13−H2O
b26++
b27++−H2O
b28++−H2O
b27++
b28++
y12
y13
b16
b17
b21

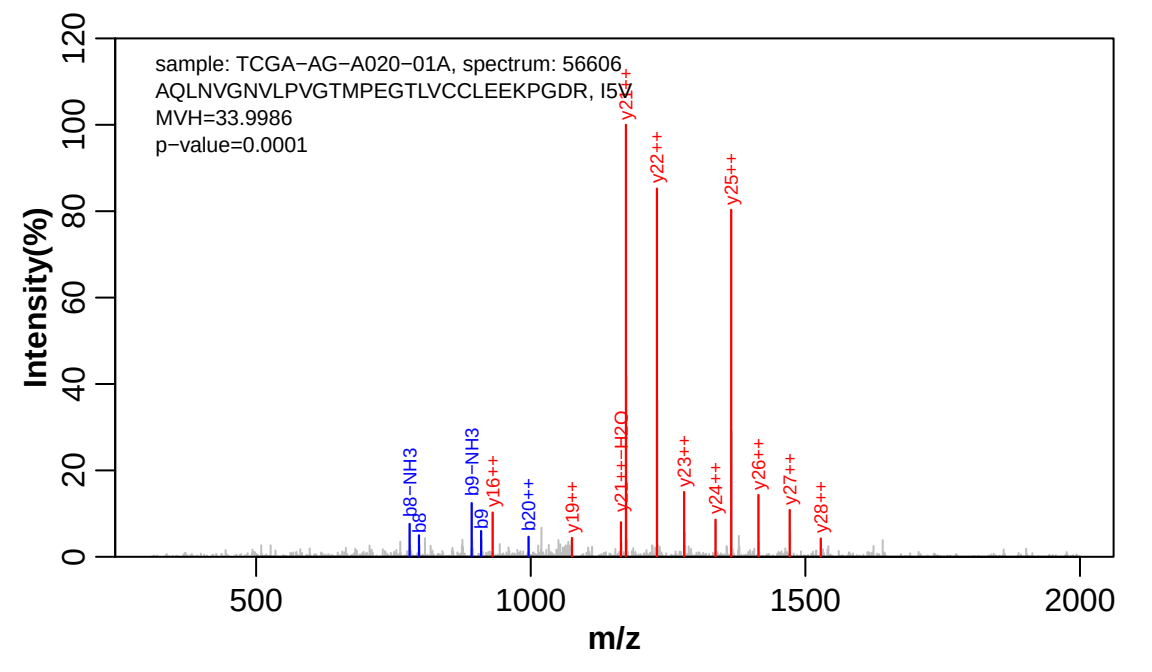

sample: TCGA−AG−A020−01A, spectrum: 52292
AAAPAPVSEAVSR, C12S
MVH=24.2031
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
b5
y5−NH3−H2O
y5−H2O
b7
y7−NH3
y7−H2O
y7
b8
y8−H2O
y8
b10
y10−NH3
y10

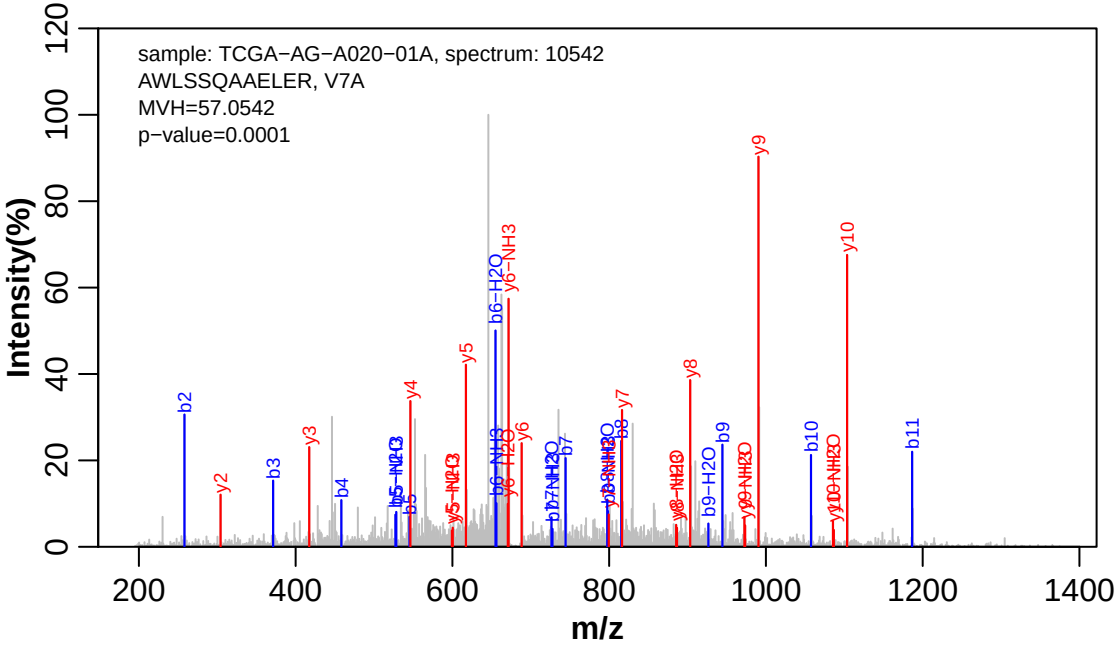

sample: TCGA−AG−A020−01A, spectrum: 32741
AAPSVTLFPPSSEELQANK, T2A
MVH=55.6369
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7−H2O
b7
b8−H2O
b8

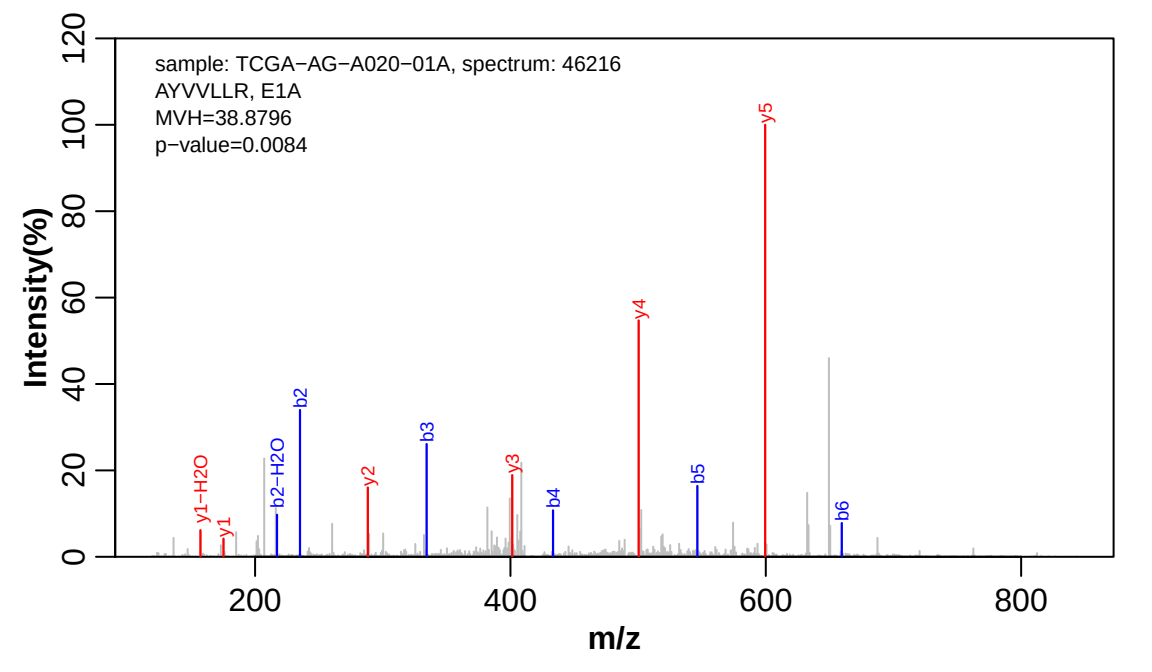

sample: TCGA−AG−A020−01A, spectrum: 7706
AGVETTTPSK, K7T
MVH=46.8142
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5
y5
b6−H2O
y6
b7−NH3
b7
y7
y9

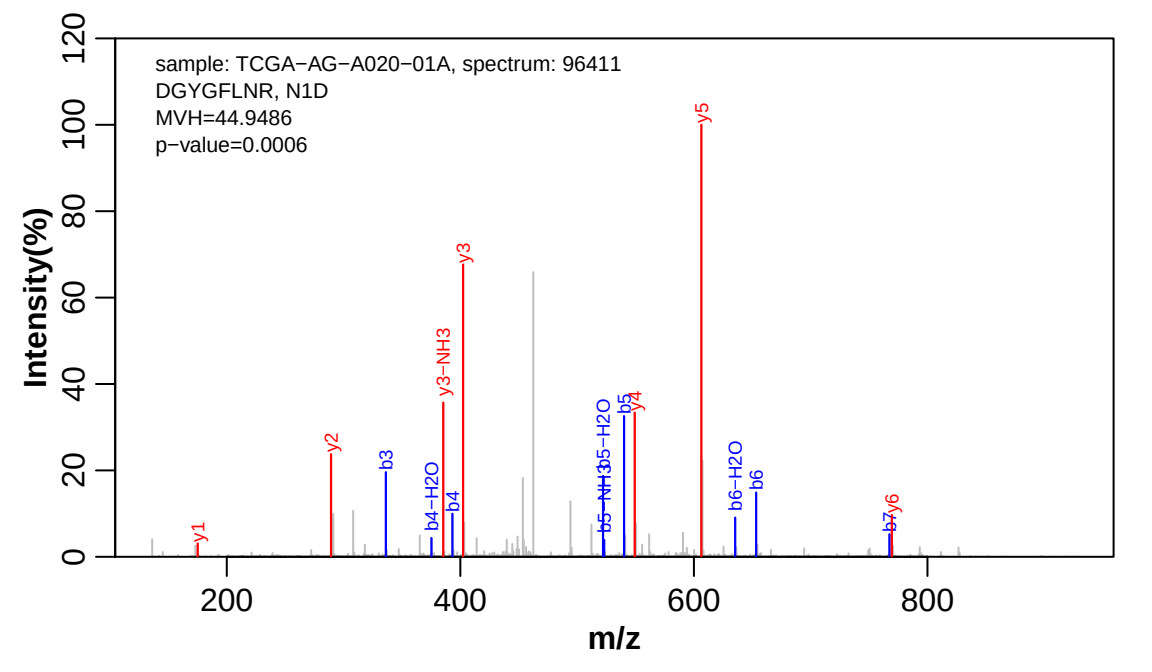

sample: TCGA−AG−A020−01A, spectrum: 27322
ALEDVFDALEGK, M5V
MVH=52.8919
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3−H2O
y3
b4
y4
b5
y5−NH3
y5−H2O
y5
y6
b6
y7
b7
b8−H2O
b8
y8−H2O
y8
y9−H2O
y9
y10−H2O
y10

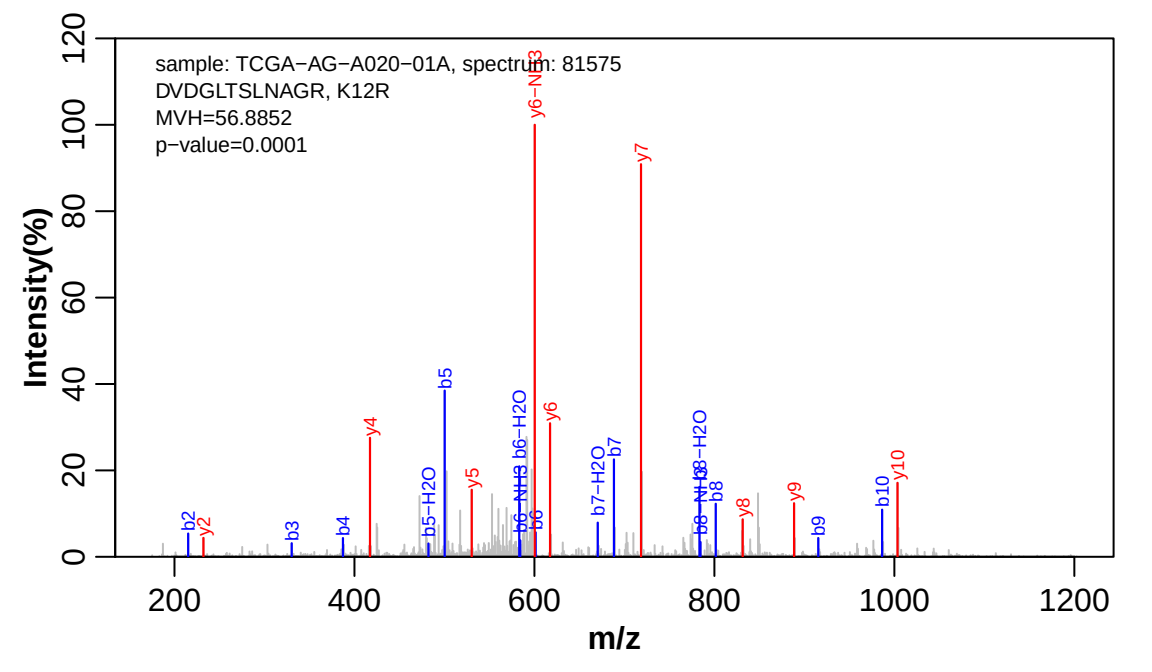

sample: TCGA−AG−A020−01A, spectrum: 32015
APSQHLSSFDPCFYR, RSH
MVH=55.2128
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5++
b10++
y5
y6++
b9++−H2O
y9−H2O
b5
b10−NH3−H2O
y9++
b10++−H2O
b6
b12++
y13++
y6+−H2O
b9
y7
b10−H2O
b10
y8

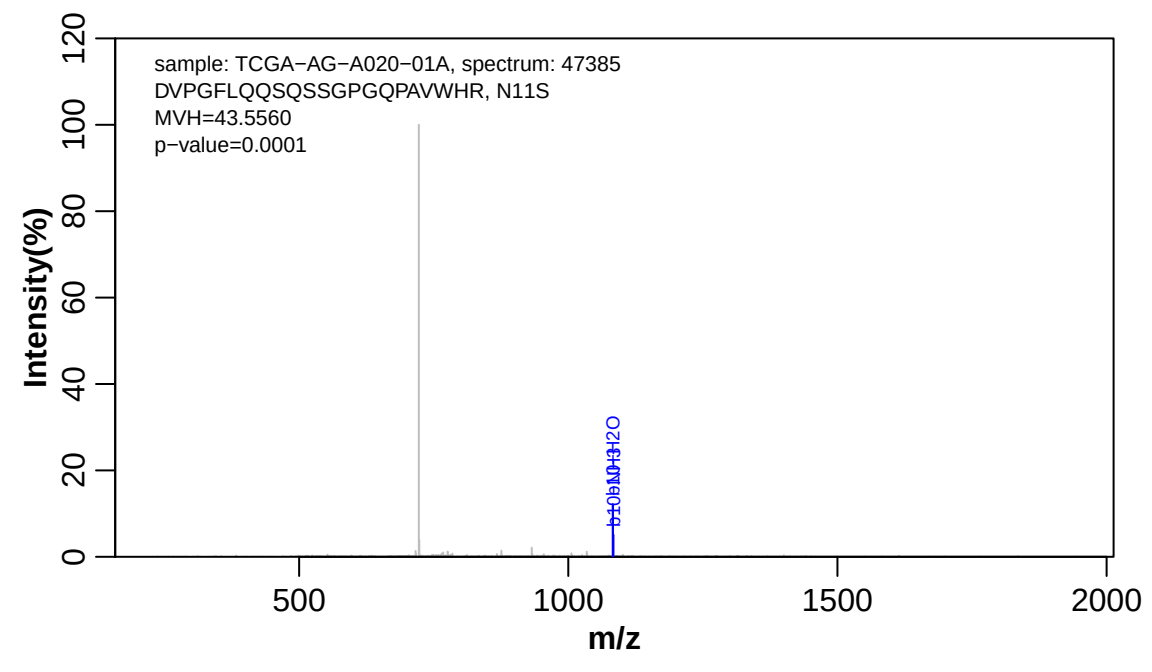

sample: TCGA−AG−A020−01A, spectrum: 56606
AQLNVGNVLPVGTMPEGTLVCCLEEKPGDR, I5V
MVH=33.9986
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b8−NH3
b8
b9−NH3
b9
y16++
b20++
y19++
y21++−H2O
y21++
y22++
y23++
y24++
y25++
y26++
y27++
y28++

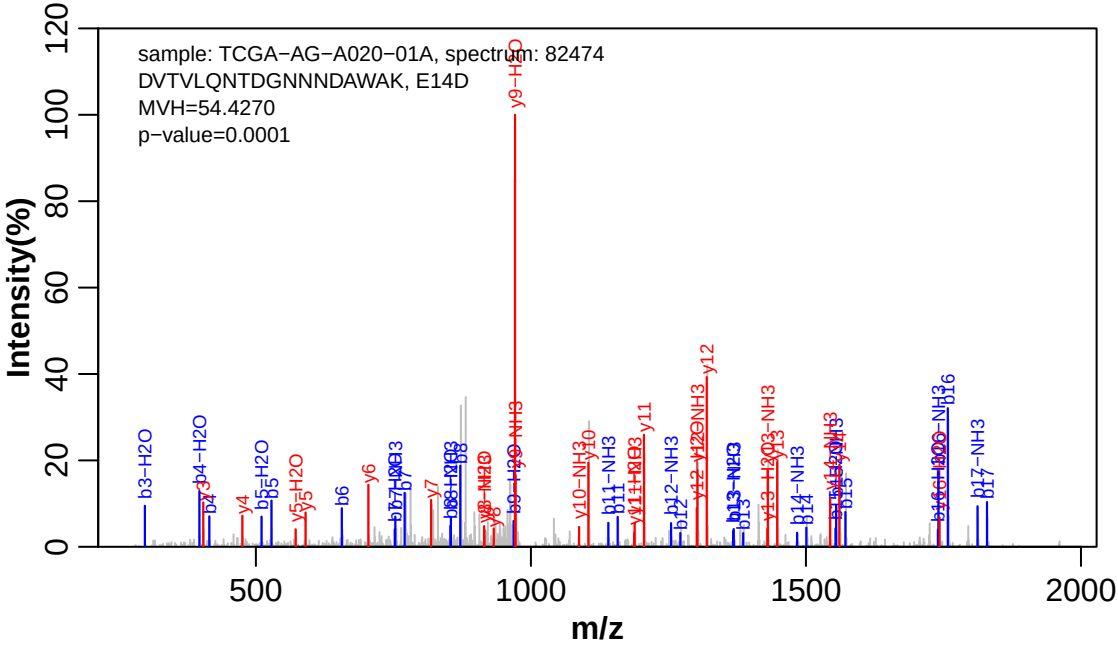

sample: TCGA−AG−A020−01A, spectrum: 10542
AWLSSQAAELER, V7A
MVH=57.0542
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
y4
y5
b6−H2O
y6−NH3
y6
b7
y8
y7
b9
b9−H2O
y9
y10
b10
b11

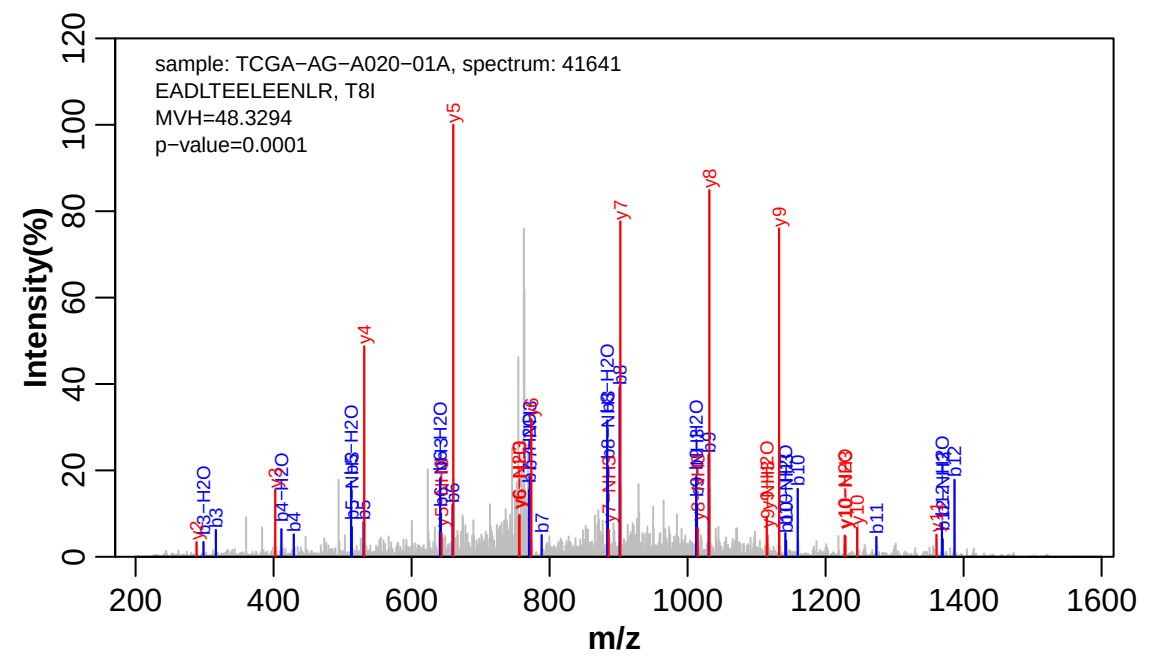

sample: TCGA−AG−A020−01A, spectrum: 46216
AYVVLLR, E1A
MVH=38.8796
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−H2O
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

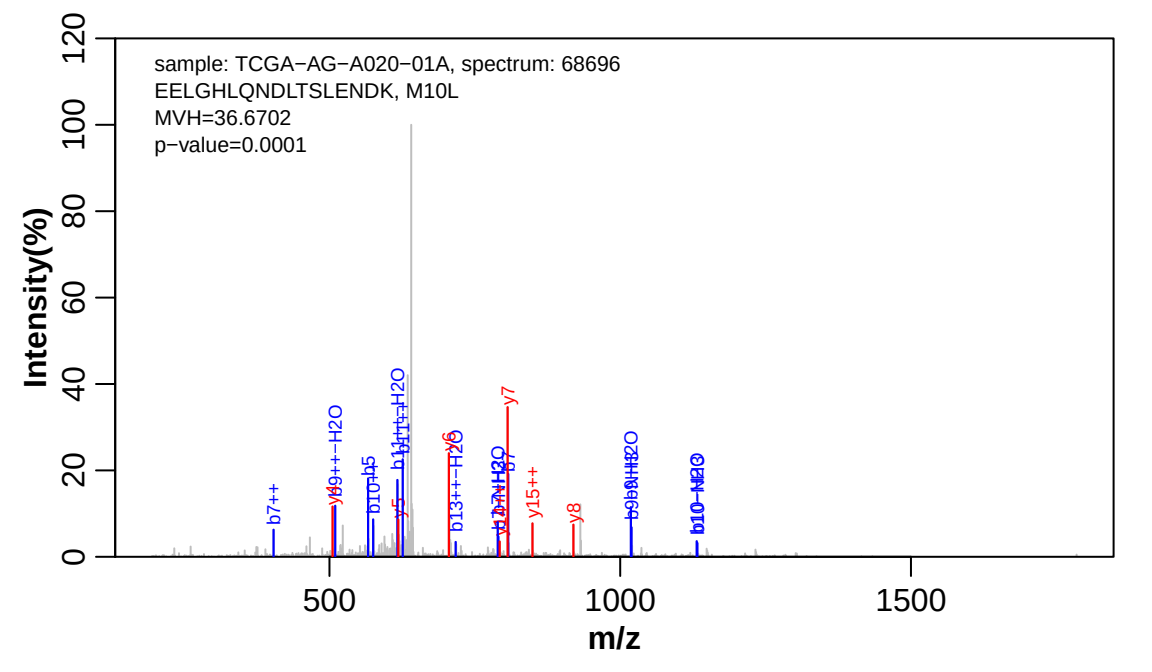

sample: TCGA−AG−A020−01A, spectrum: 96411
DGYGFLNR, N1D
MVH=44.9486
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

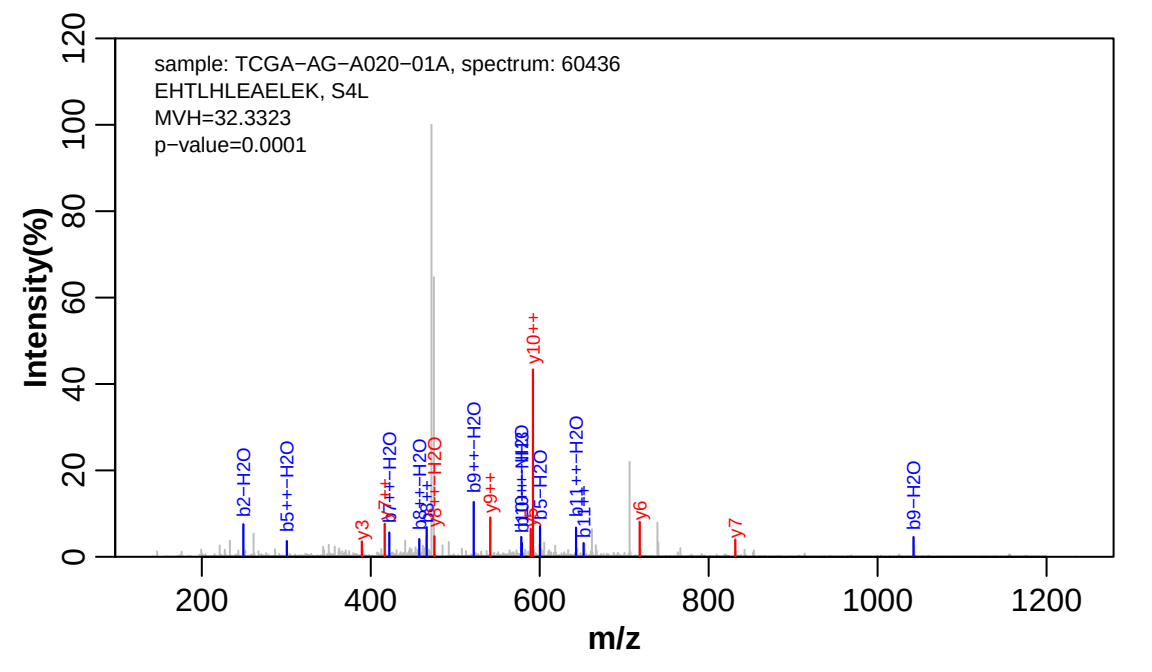

sample: TCGA−AG−A020−01A, spectrum: 81575
DVDGLTSLNAGR, K12R
MVH=56.8852
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
b4
y4
b5
b5−H2O
y5
b6−NH3
b6−H2O
y6−NH3
y6
b6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9
b9
b10
y10

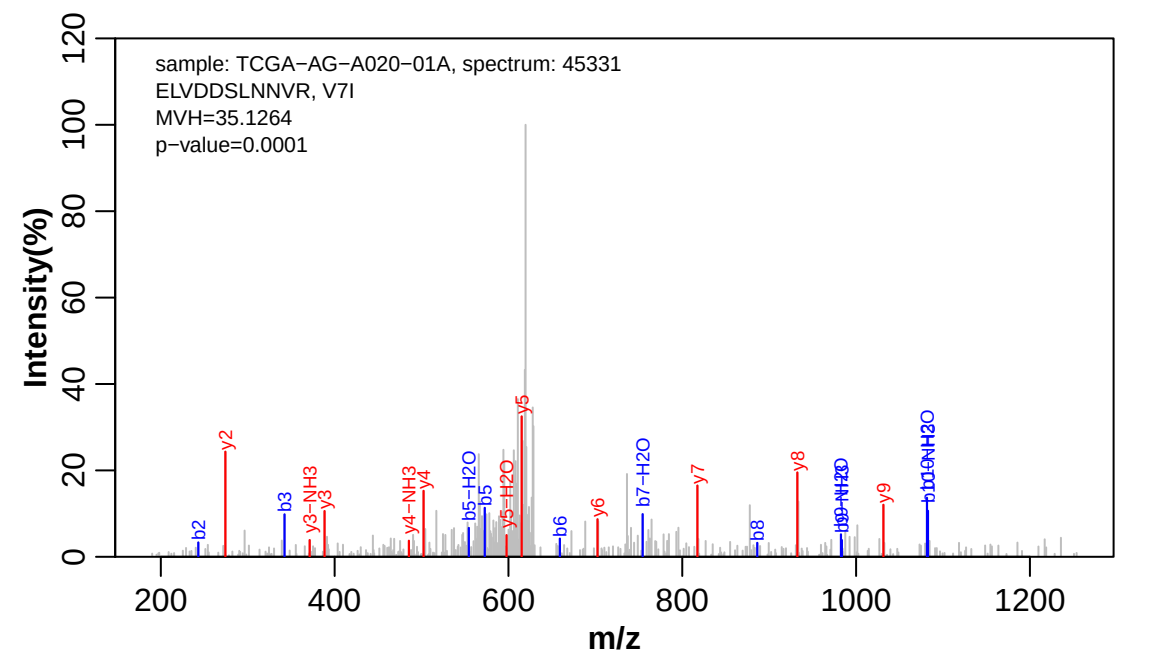

sample: TCGA−AG−A020−01A, spectrum: 47385
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=43.5560
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

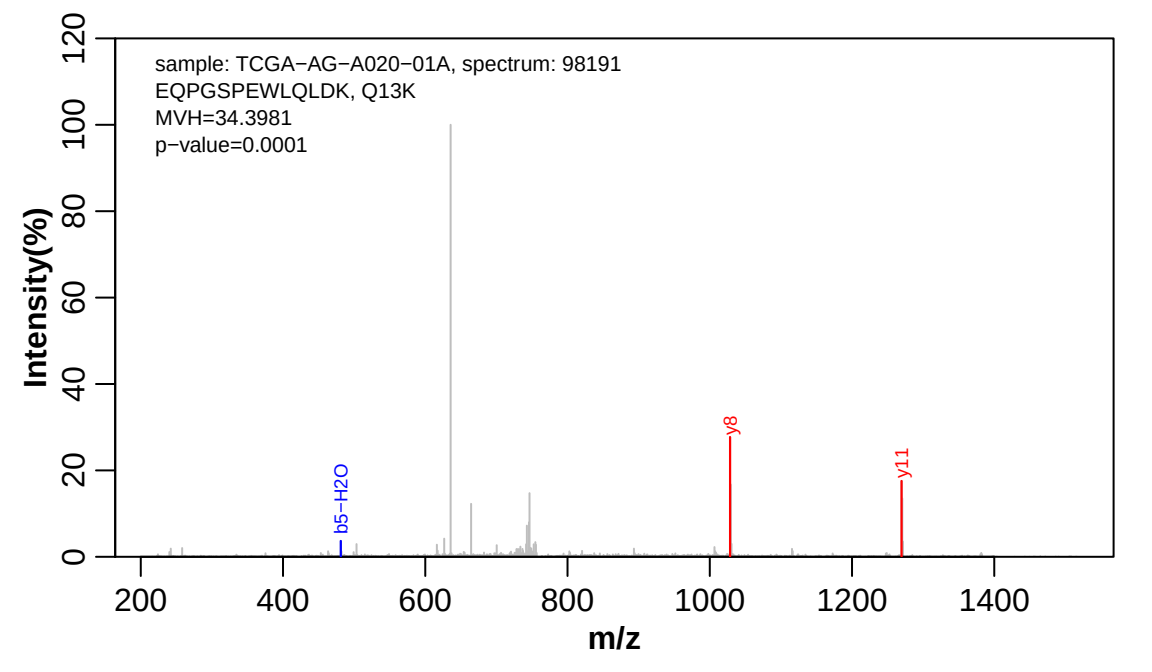

sample: TCGA−AG−A020−01A, spectrum: 82474
DVTVLQNTDGNNNDAWAK, E14D
MVH=54.4270
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y9−H2O
b3−H2O
b4−H2O
y4
b5−H2O
y5−H2O
b6
y6
y7
b9−H2O−NH3
y10−NH3
b11−NH3
y12
b14−NH3
b16
b17−NH3

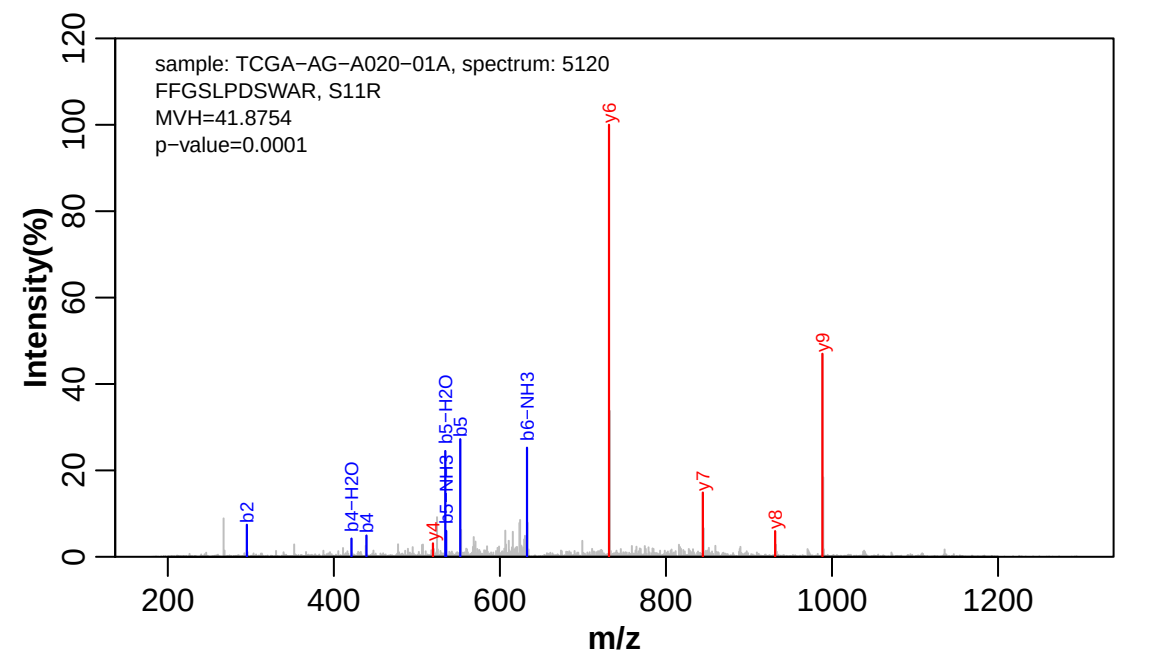

sample: TCGA−AG−A020−01A, spectrum: 41641
EADLTEELEENLR, T8I
MVH=48.3294
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y8
y7
y9
y4
b7
b11
b12
b10

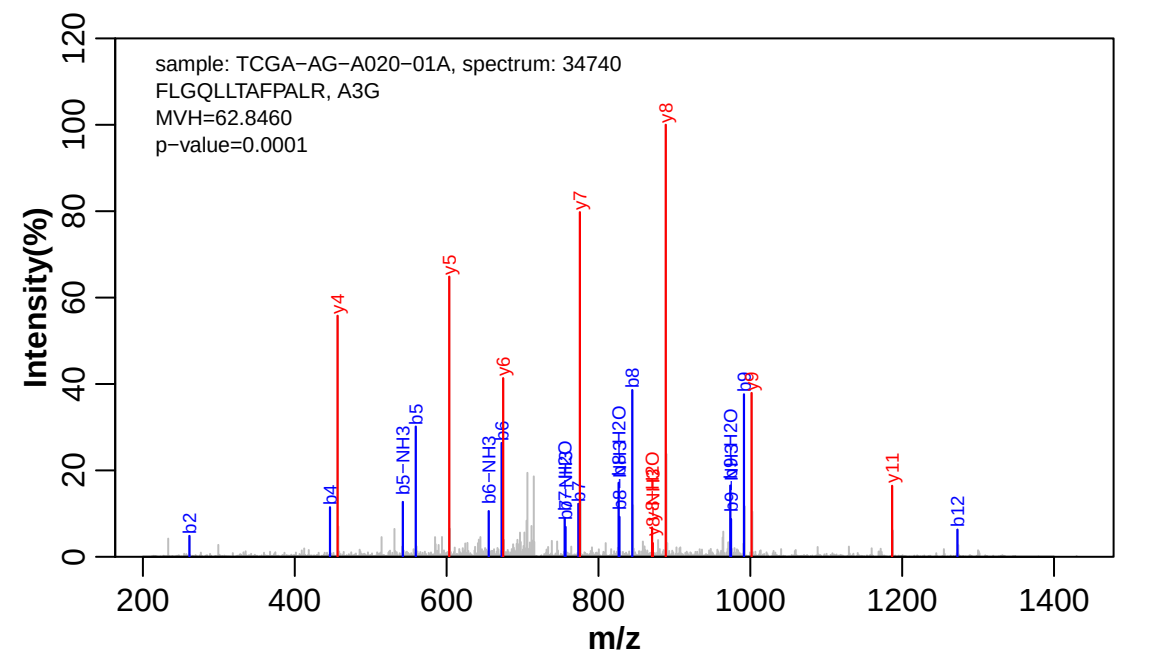

sample: TCGA−AG−A020−01A, spectrum: 68696
EELGHLQNDLTSLENDK, M10L
MVH=36.6702
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b7++
y9++−H2O
b10++
y5++
b11++−H2O
b13++−H2O
y6++
y7++
y15++
y8
b9++−H2O
b10++−H2O

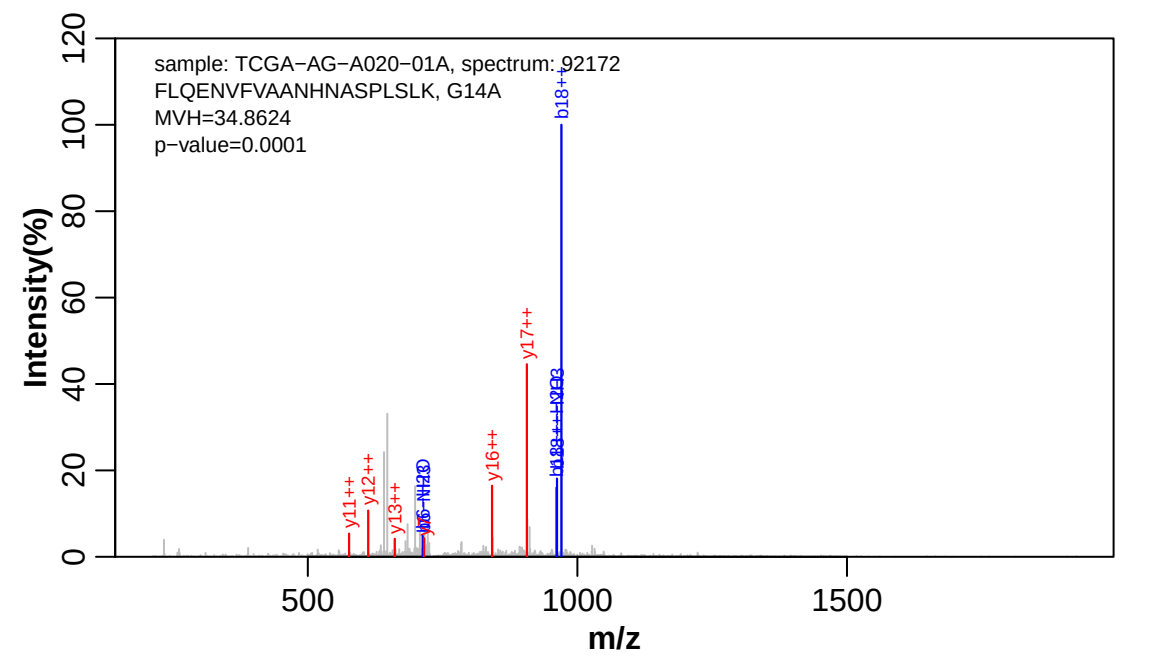

sample: TCGA−AG−A020−01A, spectrum: 60436
EHTLHLEAELEK, S4L
MVH=32.3323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b5++−H2O
y3
y7++−H2O
b8++−H2O
y8++−H2O
b9++−H2O
y9++
y10++
b5−H2O
b11++−H2O
y6
y7
b9−H2O

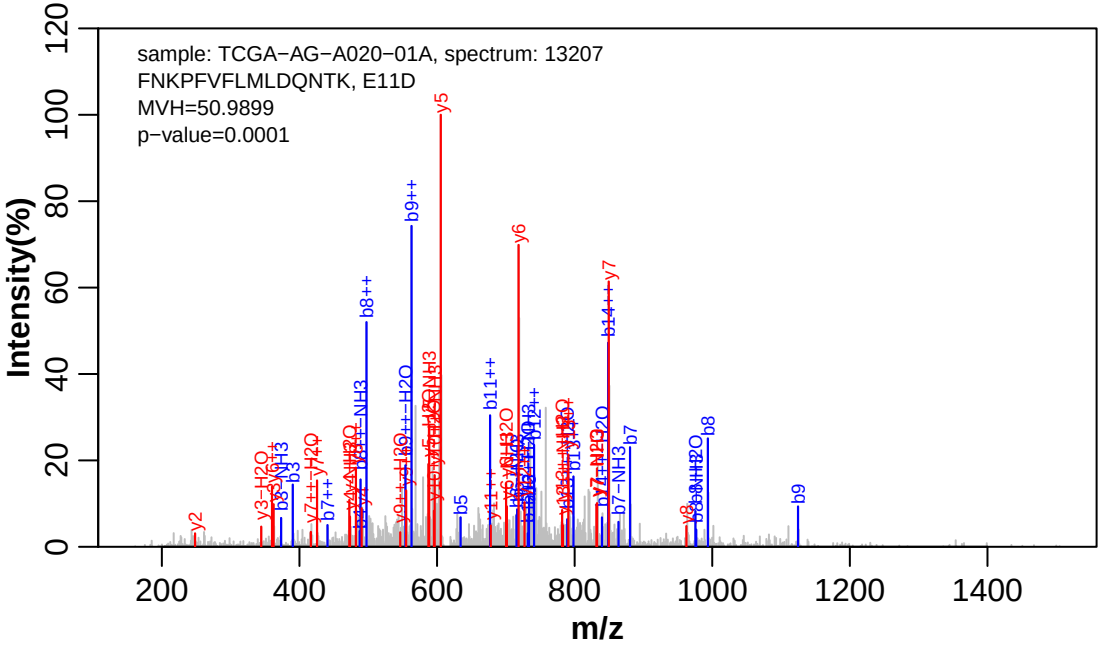

sample: TCGA−AG−A020−01A, spectrum: 45331
ELVDDSLNNVR, V7I
MVH=35.1264
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3−NH3
y3
y4−NH3
y4
b5−H2O
b5
y5−H2O
y5
b6
y6
b7−H2O
y7
b8
y8
y9

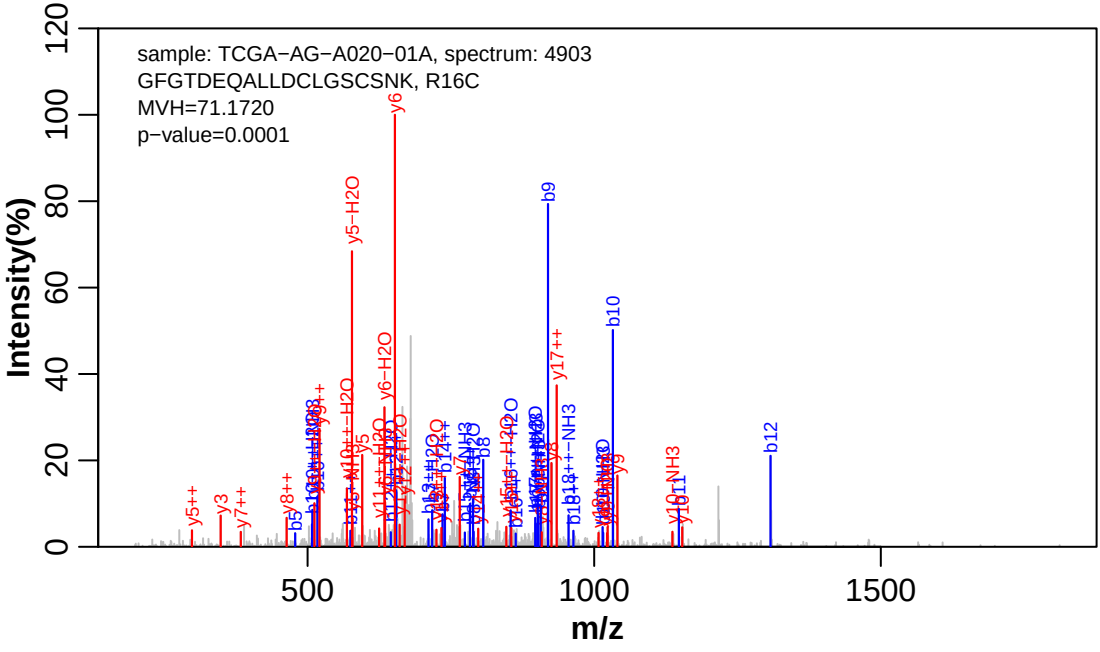

sample: TCGA−AG−A020−01A, spectrum: 98191
EQPGSPEWLQLDK, Q13K
MVH=34.3981
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y8
y11

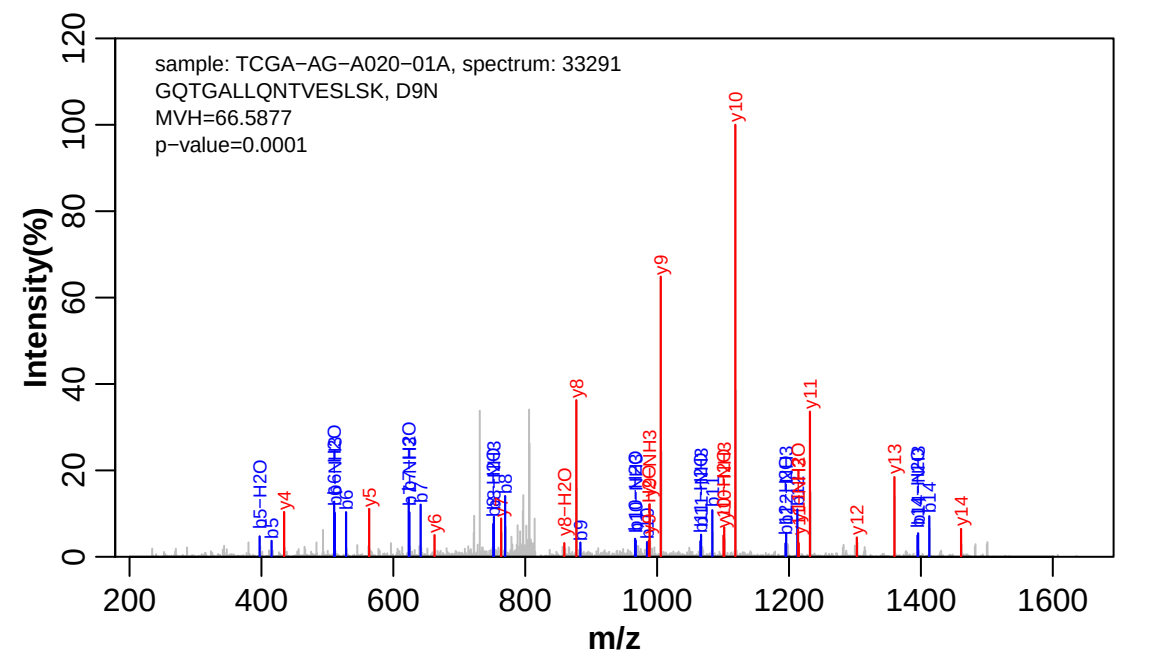

sample: TCGA−AG−A020−01A, spectrum: 5120
FFGSLPDSWAR, S11R
MVH=41.8754
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

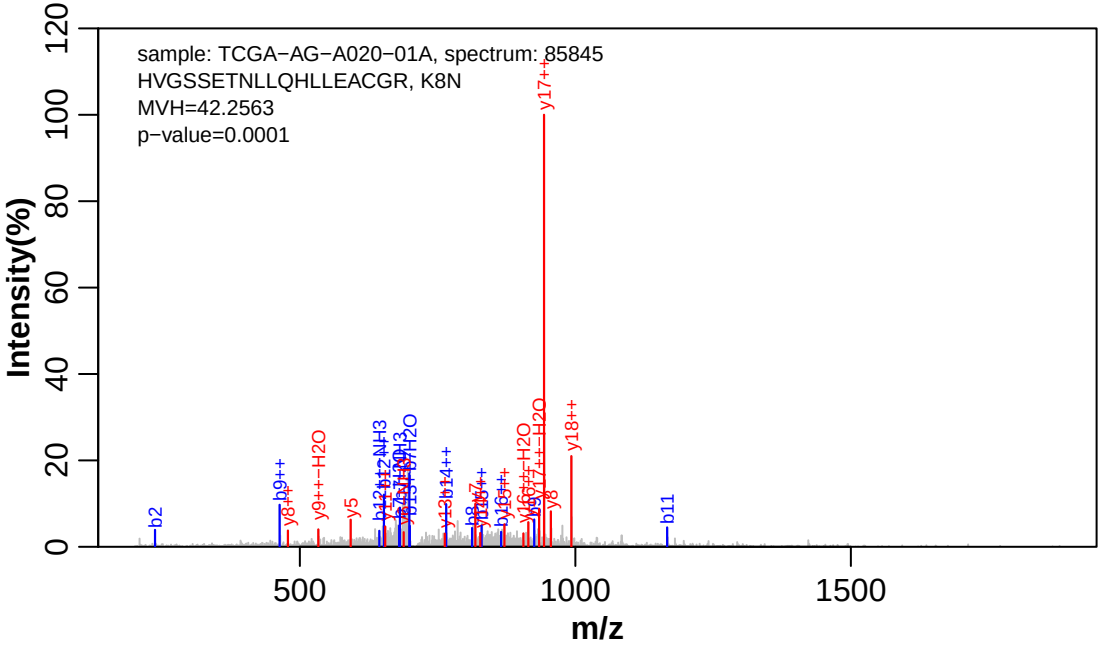

sample: TCGA−AG−A020−01A, spectrum: 34740
FLGQLLTAFPALR, A3G
MVH=62.8460
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
b4
y4
b5−NH3
b5
y5
b6−NH3
b6
y6
b7
y7
b8
y8
y9
b9
y11
b12

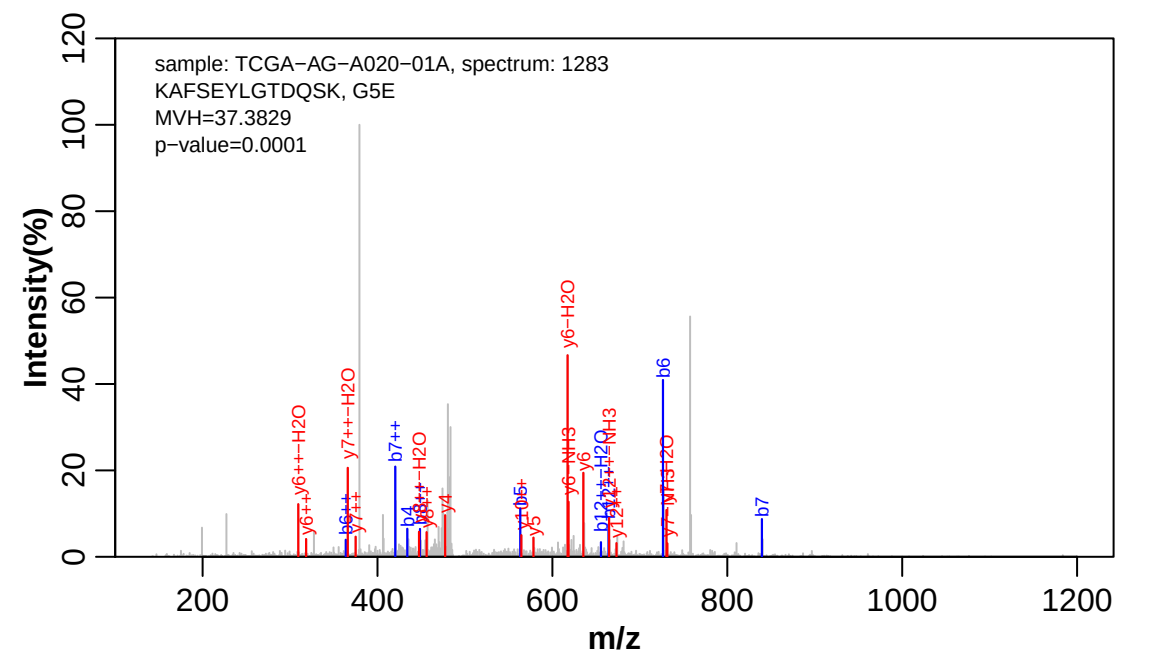

sample: TCGA−AG−A020−01A, spectrum: 92172
FLQENVFVAANHNASPLSLK, G14A
MVH=34.8624
p−value=0.0001
b18++
y17++
y16++
y12++
y11++
y13++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

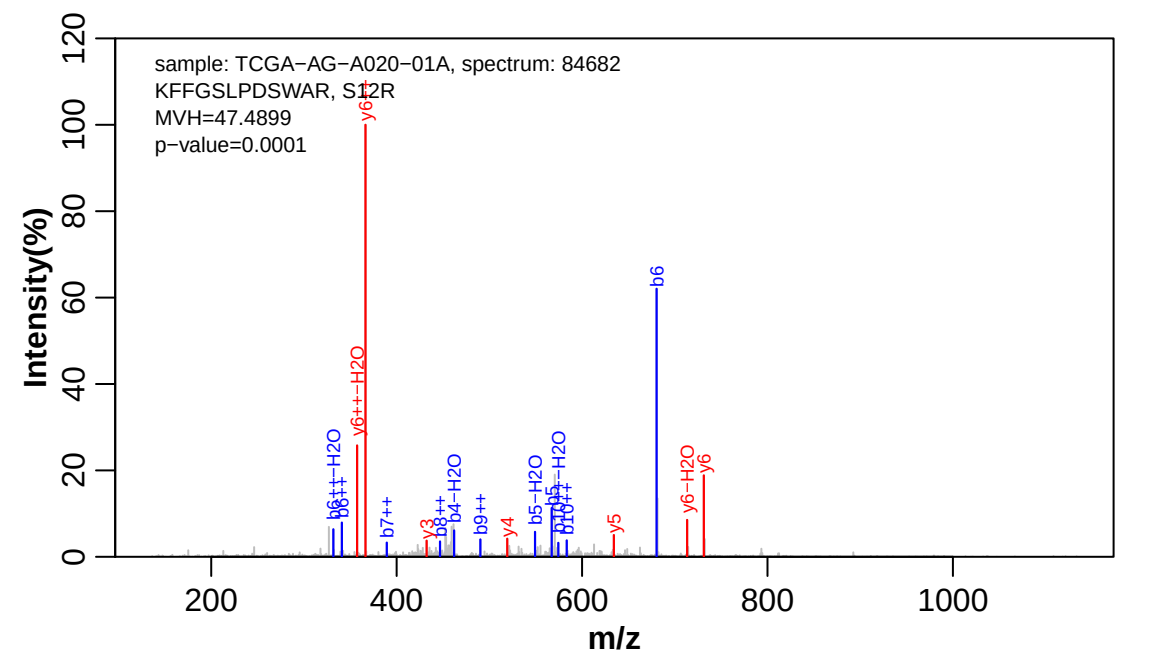

sample: TCGA−AG−A020−01A, spectrum: 13207
FNKPFVFLMLDQNTK, E11D
MVH=50.9899
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y6
y7
b9++
b8++
b14++
b11++
b7
b8
b9
b5
y2
b3
b7−NH3
b7++
y7++

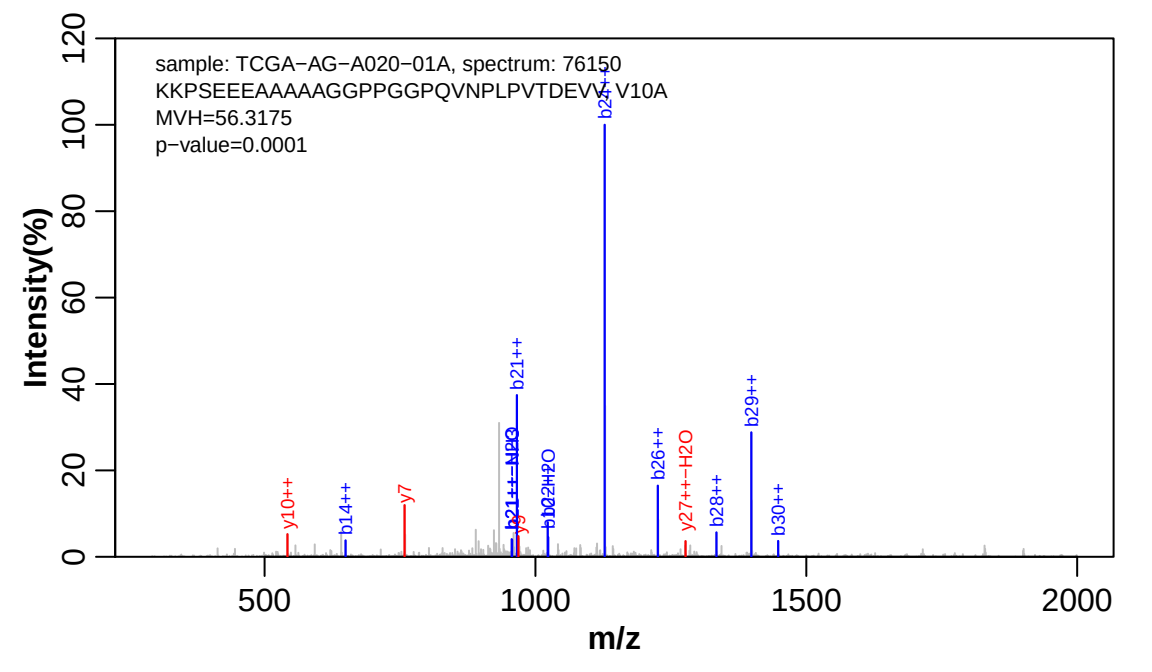

sample: TCGA−AG−A020−01A, spectrum: 4903
GFGTDEQALLDCLGSCSNK, R16C
MVH=71.1720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y6
y5−H2O
b9
b10
y17++
b12
y5++
y3
y7++
y8++
b5
y6−H2O
y5
b8
y9
y10−NH3
y11
b18++−NH3

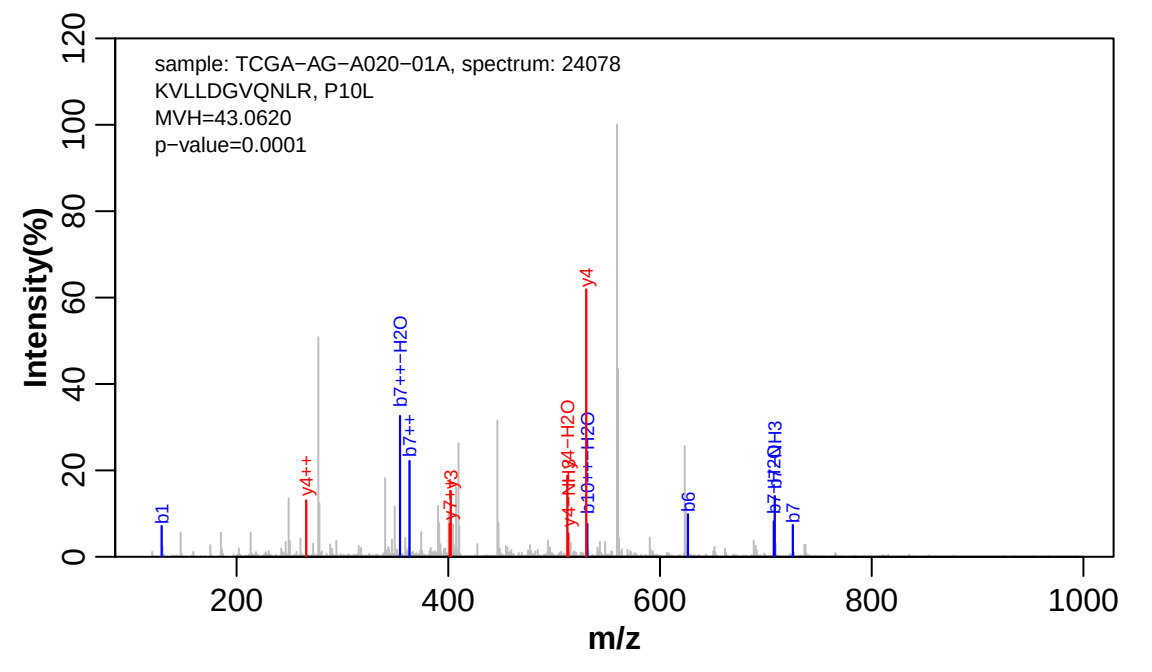

sample: TCGA−AG−A020−01A, spectrum: 33291
GQTGALLQNTVESLSK, D9N
MVH=66.5877
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y14
y12
y8−H2O
y4
y5
y6
b5−H2O
b5
b6
b7
b8
b9

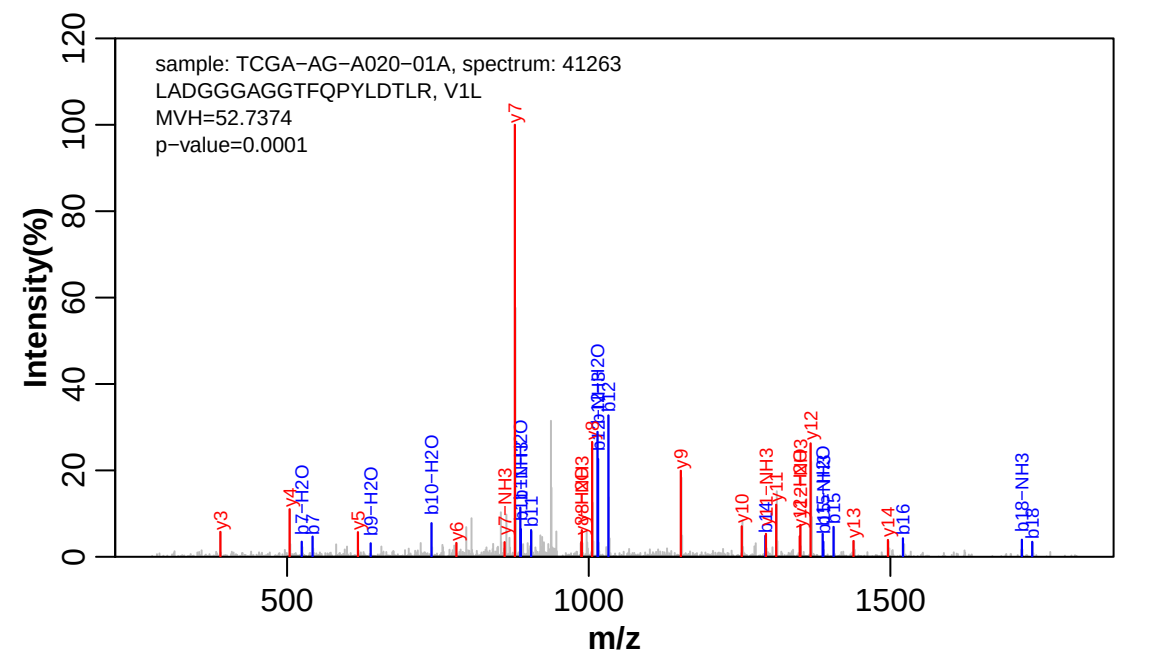

sample: TCGA−AG−A020−01A, spectrum: 85845
HVGSSETNLLQHLLEACGR, K8N
MVH=42.2563
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y8++
b9++
y9++−H2O
y5
y13++
y17++
y18++
b11

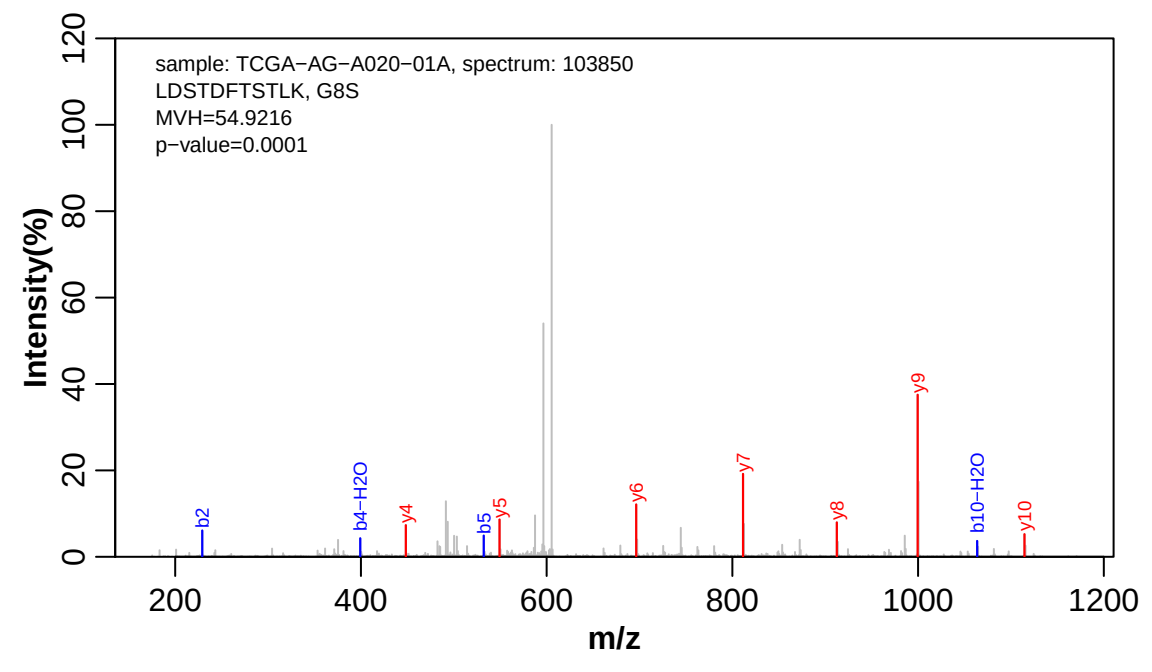

sample: TCGA−AG−A020−01A, spectrum: 1283
KAFSEYLGTDQSK, G5E
MVH=37.3829
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6++−H2O
y7++−H2O
b7++
y6+
b6++
y7++
b4
y8++−H2O
y4
y6−H2O
y6−NH3
y6
y5
b12++−H2O
b12++−NH3
y12++
b6
y7−NH3−H2O
b7

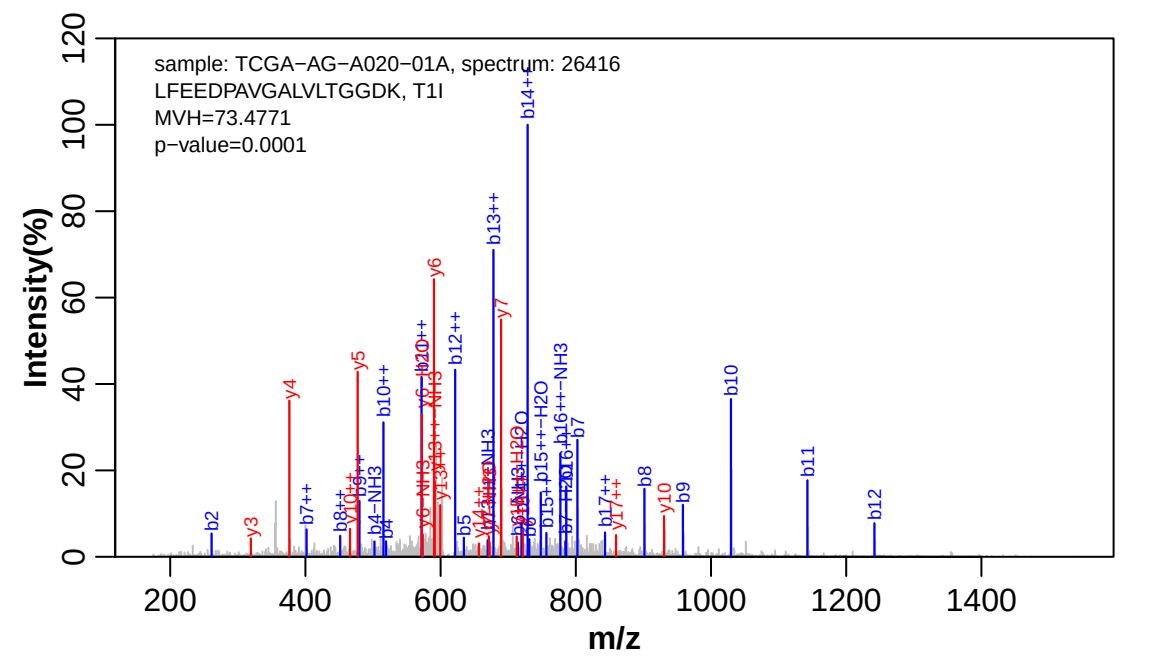

sample: TCGA−AG−A020−01A, spectrum: 84682
KFFGSLPDSWAR, S12R
MVH=47.4899
p−value=0.0001
Intensity(%)
m/z
y6++
y6++−H2O
b6++−H2O
b6++
b7++
y3
b8++
b4−H2O
b9++
y4
b5−H2O
b7++−H2O
b10++
y5
b6
y6−H2O
y6

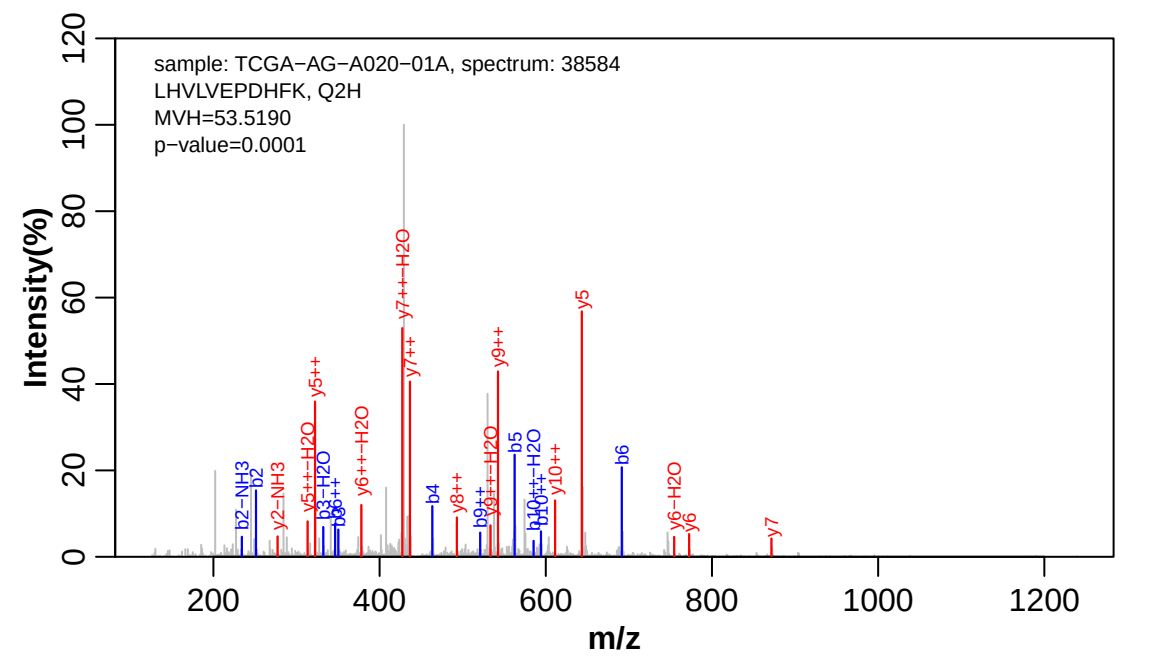

sample: TCGA−AG−A020−01A, spectrum: 76150
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=56.3175
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b14++
y7
b21++
b26++
y27++−H2O
b28++
b29++
b30++

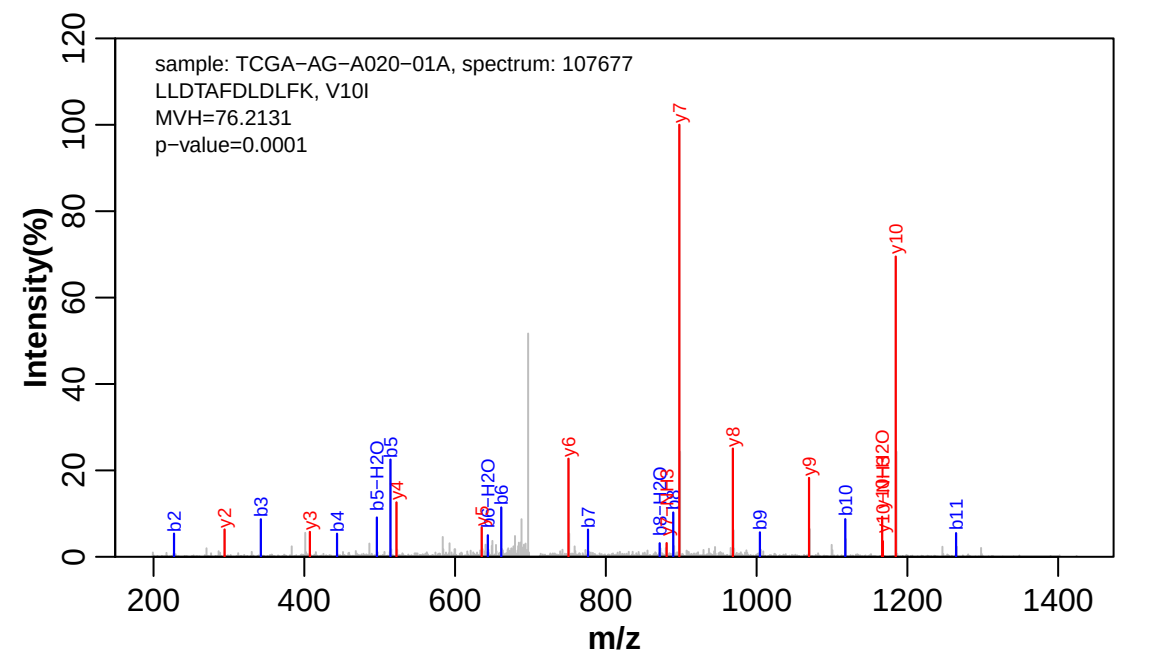

sample: TCGA−AG−A020−01A, spectrum: 24078
KVLLDGVQNLR, P10L
MVH=43.0620
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b1
y4++
b7++−H2O
b7++
y7++
y3
y4
y4−NH3
y4−H2O
b10++−H2O
b6
b7+H2O
b7+NH3
b7

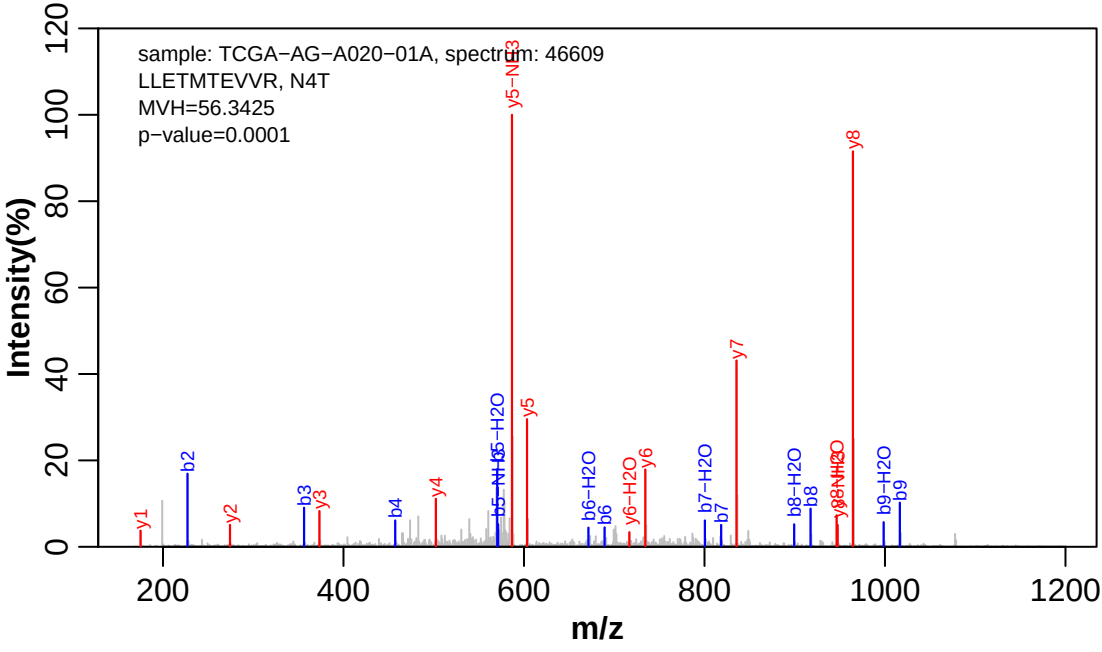

sample: TCGA−AG−A020−01A, spectrum: 41263
LADGGGAGGTFQPYLDTLR, V1L
MVH=52.7374
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y3
y4
b7−H2O
b7
y5
b9−H2O
b9
b10−H2O
y6
y7−NH3
b11
b11−H2O
b12
y9
y10
b14−NH3
y11
y13
y14
b16
b18−NH3
b18

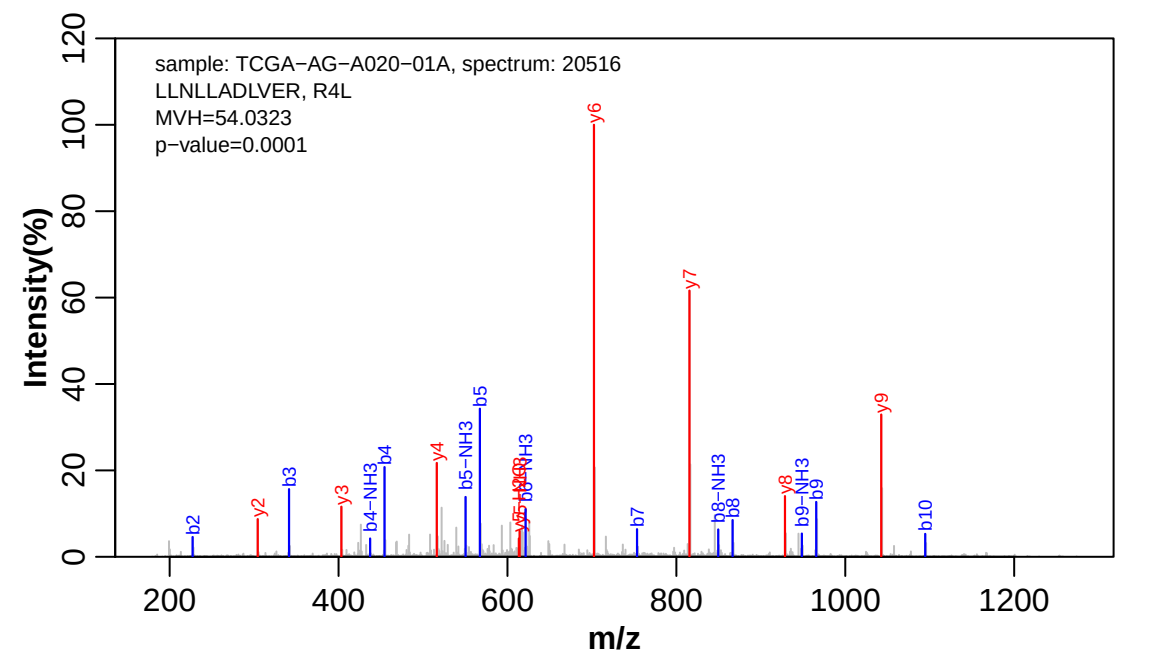

sample: TCGA−AG−A020−01A, spectrum: 103850
LDSTDFTSTLK, G8S
MVH=54.9216
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5
y5
y6
y7
y8
y9
b10−H2O
y10

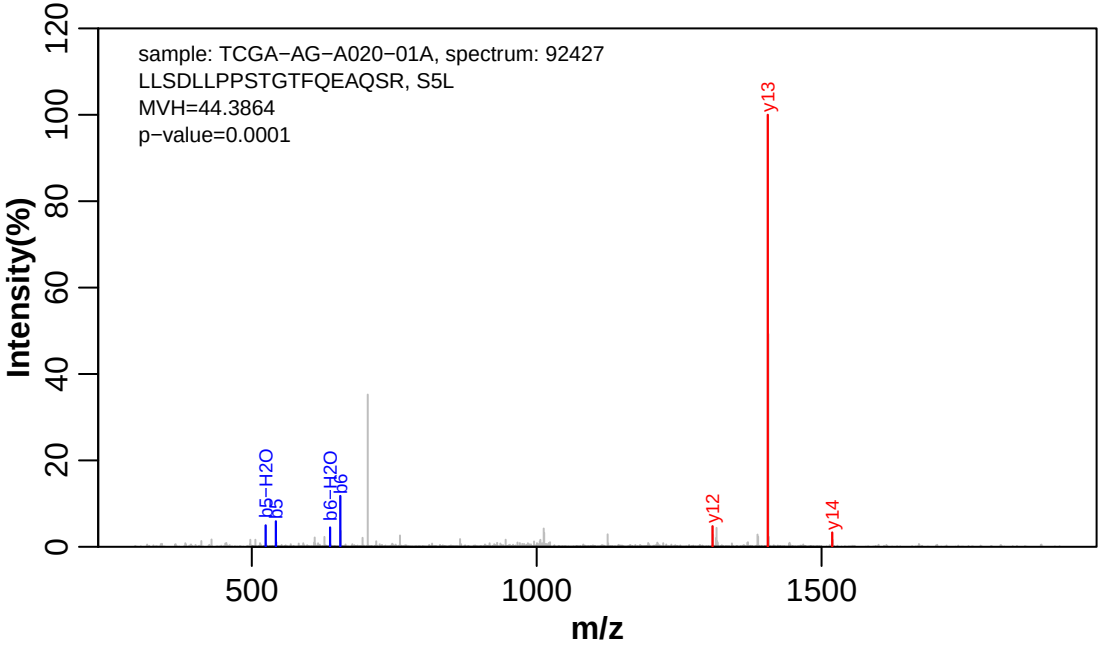

sample: TCGA−AG−A020−01A, spectrum: 26416
LFEEDPAVGALVLTGGDK, T1I
MVH=73.4771
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y3
b7++
y4
b8++
y10++
y5
b4−NH3
b4
b10++
y6−NH3
y6−H2O
y6
y6−H2O++
y13+3++−NH3
b12++
b5
b13++
y7
b14++
b15++−NH3
b15++−H2O
b16++−NH3
b7
b7−H2O
b17++
y17++
b8
y10
b9
b10
b11
b12

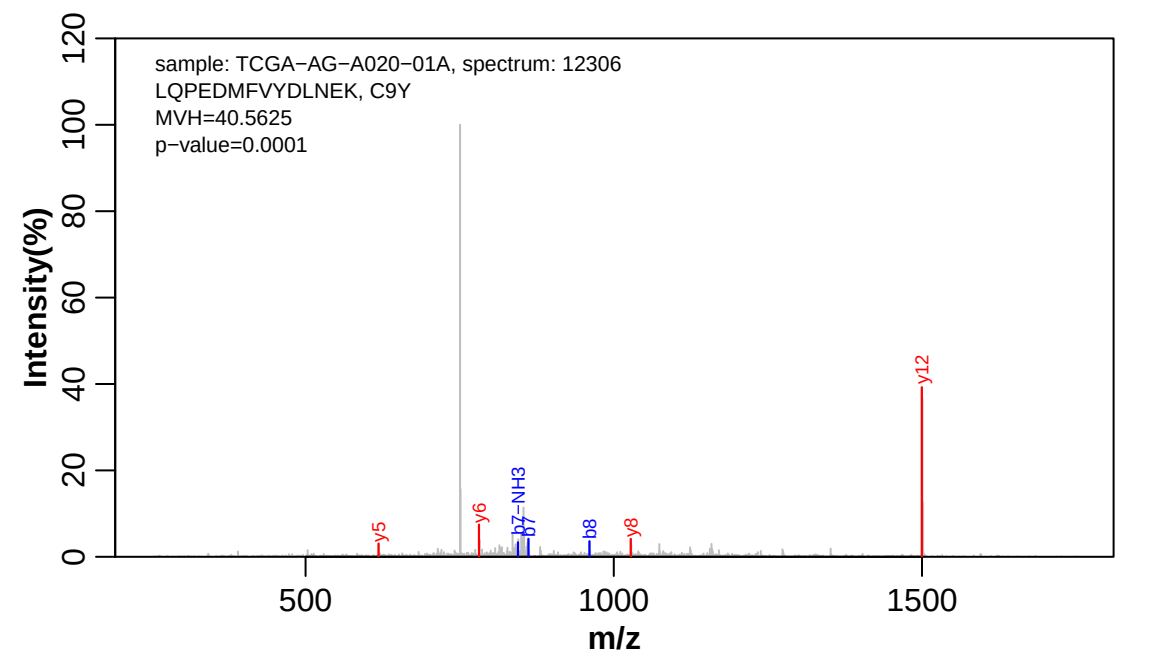

sample: TCGA−AG−A020−01A, spectrum: 38584
LHVLVEPDHFK, Q2H
MVH=53.5190
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b2
y2−NH3
y5++−H2O
y5++
b3
b3−H2O
b3++
y6++−H2O
y7++−H2O
y7++
b4
y8++
b9++
y9++−H2O
y9++
b5
b10++−H2O
b10++
y10++
y5
b6
y6−H2O
y6
y7

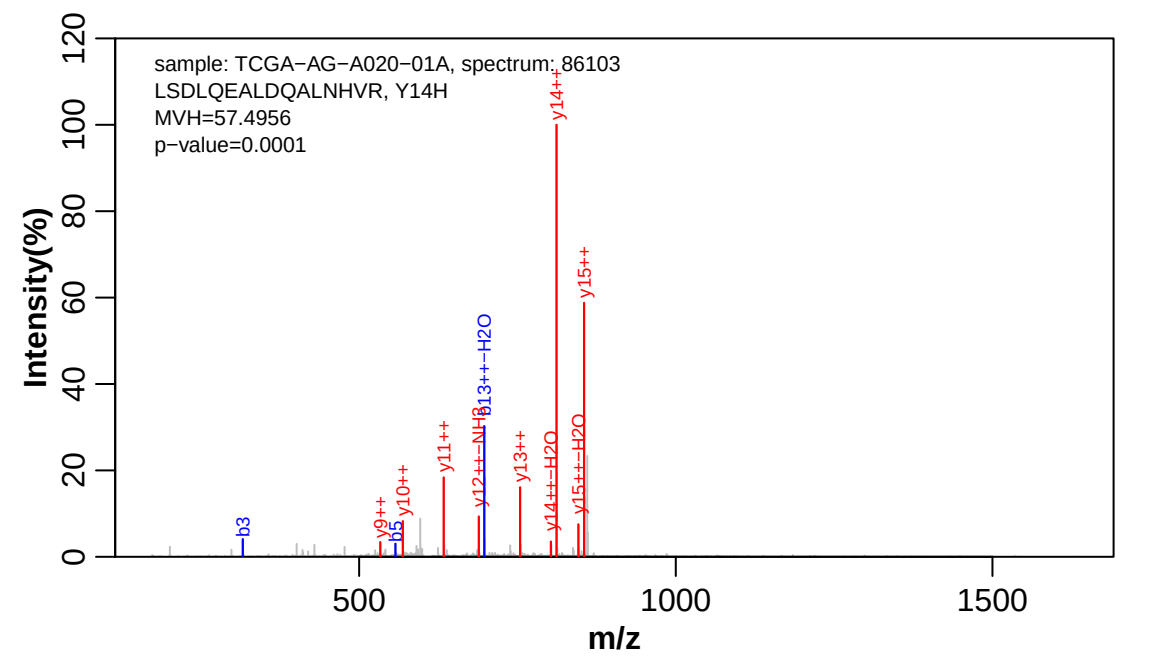

sample: TCGA−AG−A020−01A, spectrum: 107677
LLDTAFDLDLFK, V10I
MVH=76.2131
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
y5
b6−H2O
b6
y6
b7
b8−H2O
b8
y7
y8
b9
y9
b10
y10−H2O
y10
b11

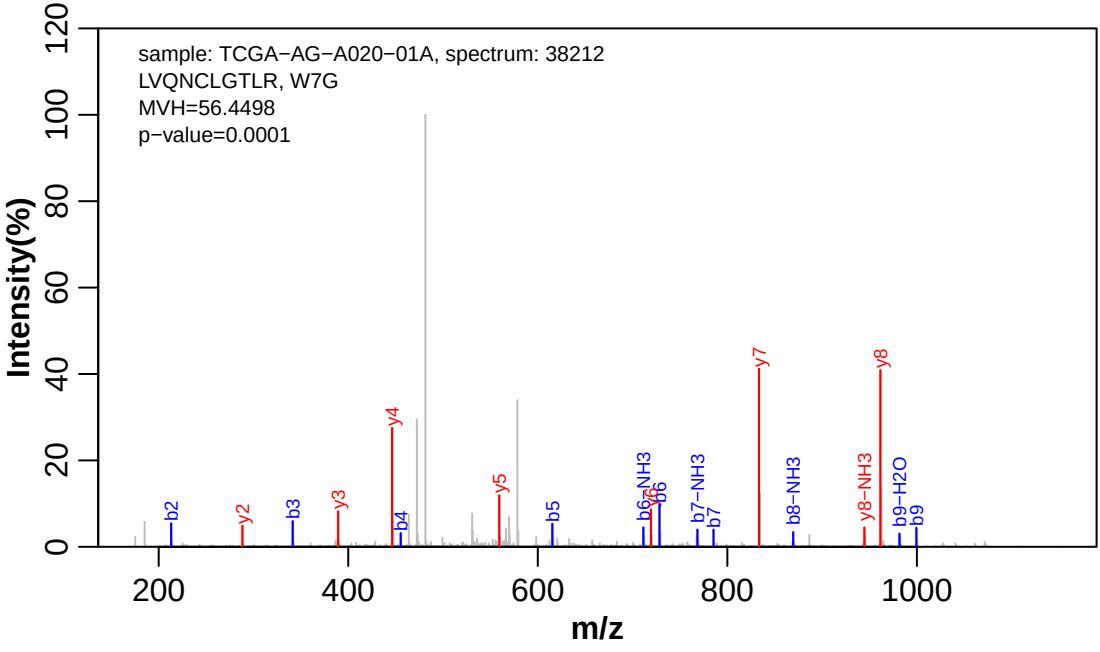

sample: TCGA−AG−A020−01A, spectrum: 46609
LLETMTEVVR, N4T
MVH=56.3425
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2
y2
b3
y3
b4
y4
y5−NH3
b5−H2O
y5
b6−H2O
b6
y6−H2O
y6
b7−H2O
b7
y7
b8−H2O
b8
y8−NH3
y8−H2O
y8
b9−H2O
b9

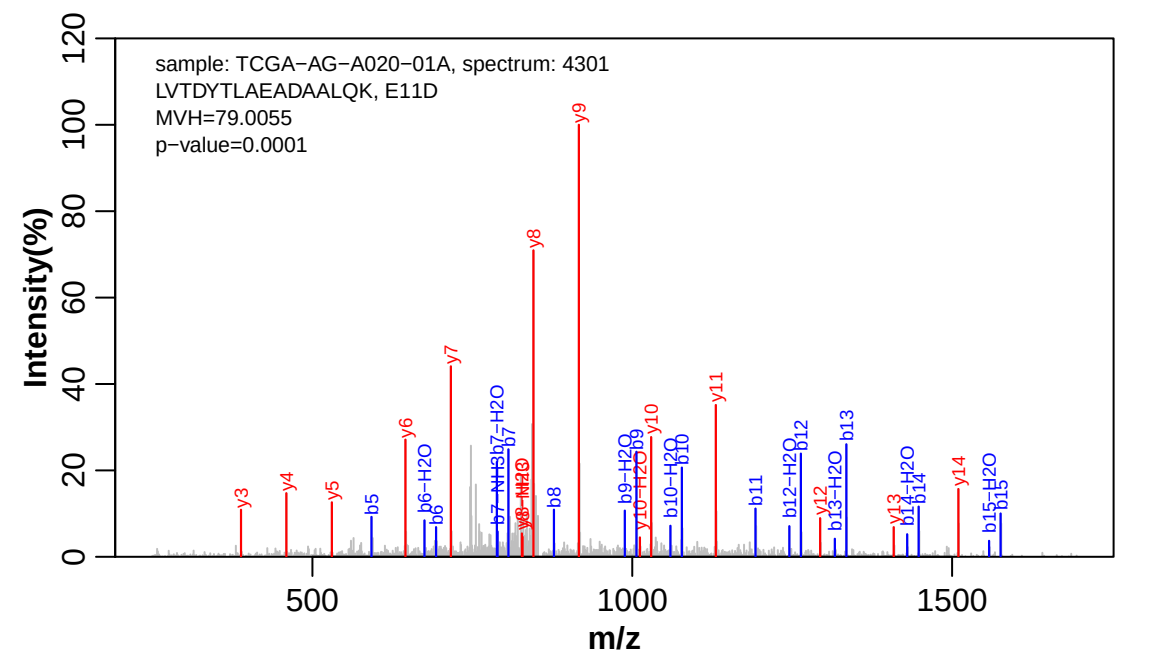

sample: TCGA−AG−A020−01A, spectrum: 20516
LLNLLADLVER, R4L
MVH=54.0323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y3
y2
b5
b5−NH3
b4
b4−NH3
b3
b2
b7
b8−NH3
b8
y8
b9−NH3
b9
b10

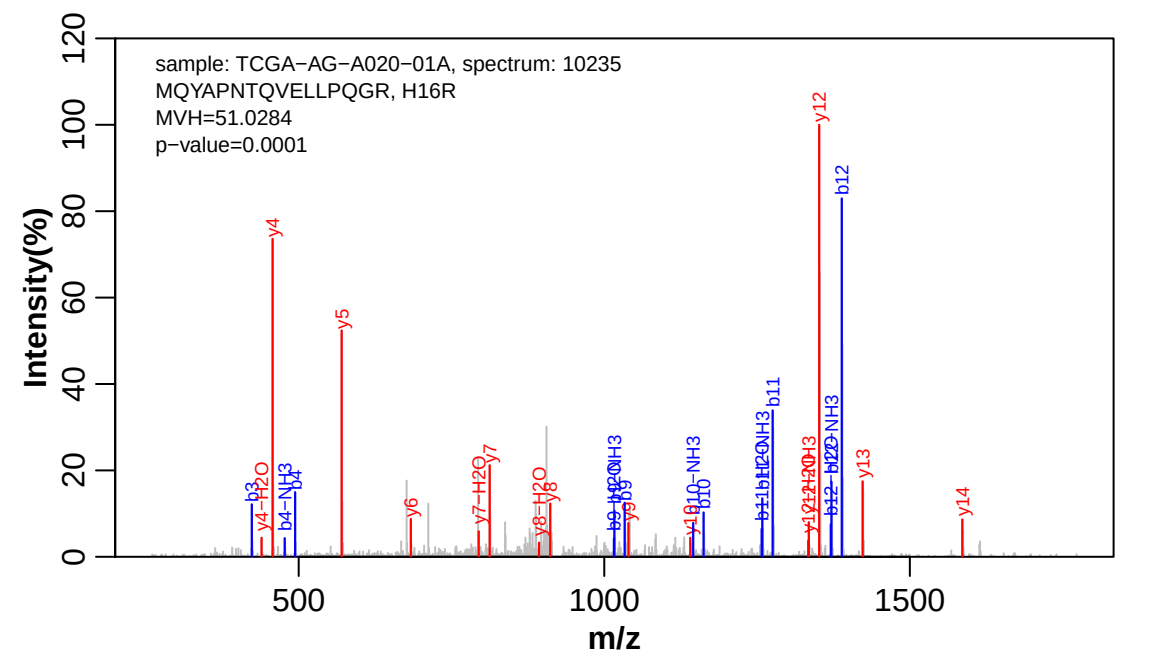

sample: TCGA−AG−A020−01A, spectrum: 92427
LLSDLLPPSTGTFQEAQSR, S5L
MVH=44.3864
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
b5
b6−H2O
b6
y12
y13
y14

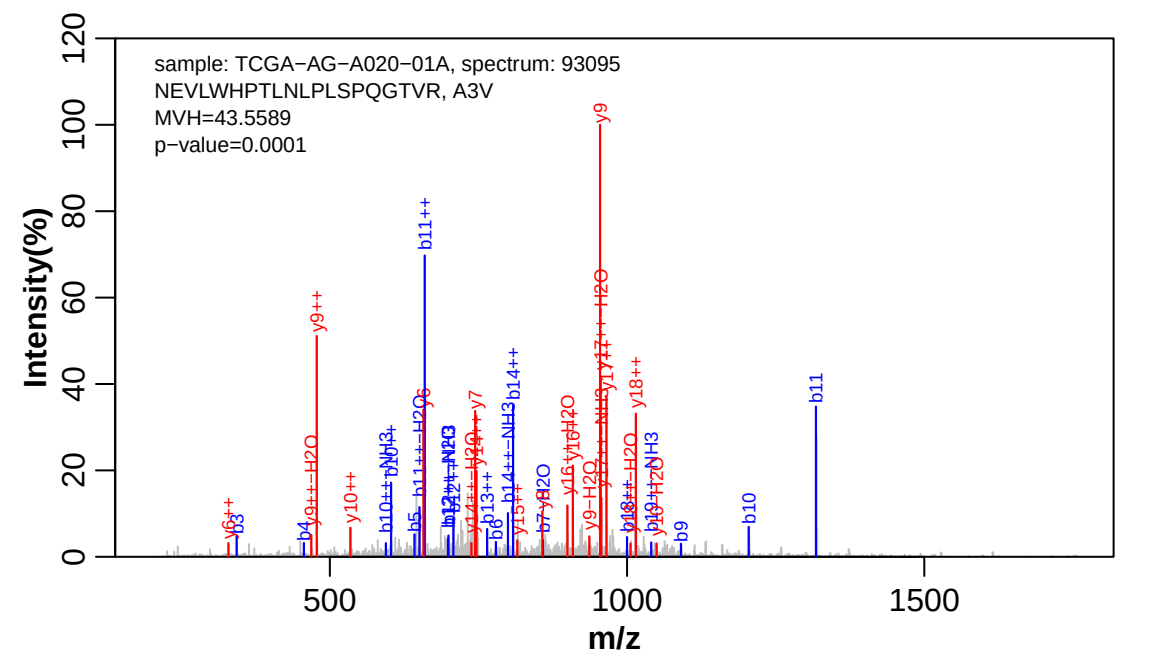

sample: TCGA−AG−A020−01A, spectrum: 12306
LQPEDMFVYDLNEK, C9Y
MVH=40.5625
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y5
y6
b7−NH3
b7
b8
y8
y12

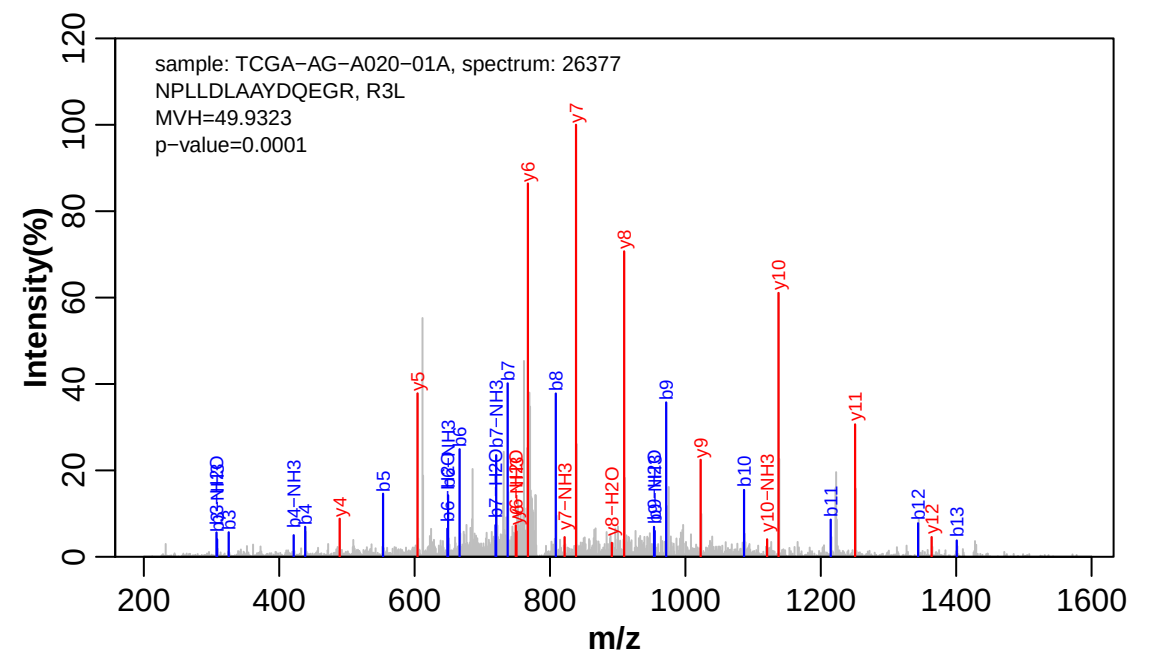

sample: TCGA−AG−A020−01A, spectrum: 86103
LSDLQEALDQALNHVR, Y14H
MVH=57.4956
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b3
y9++
b5
y10++
y11++
y12++−NH3
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

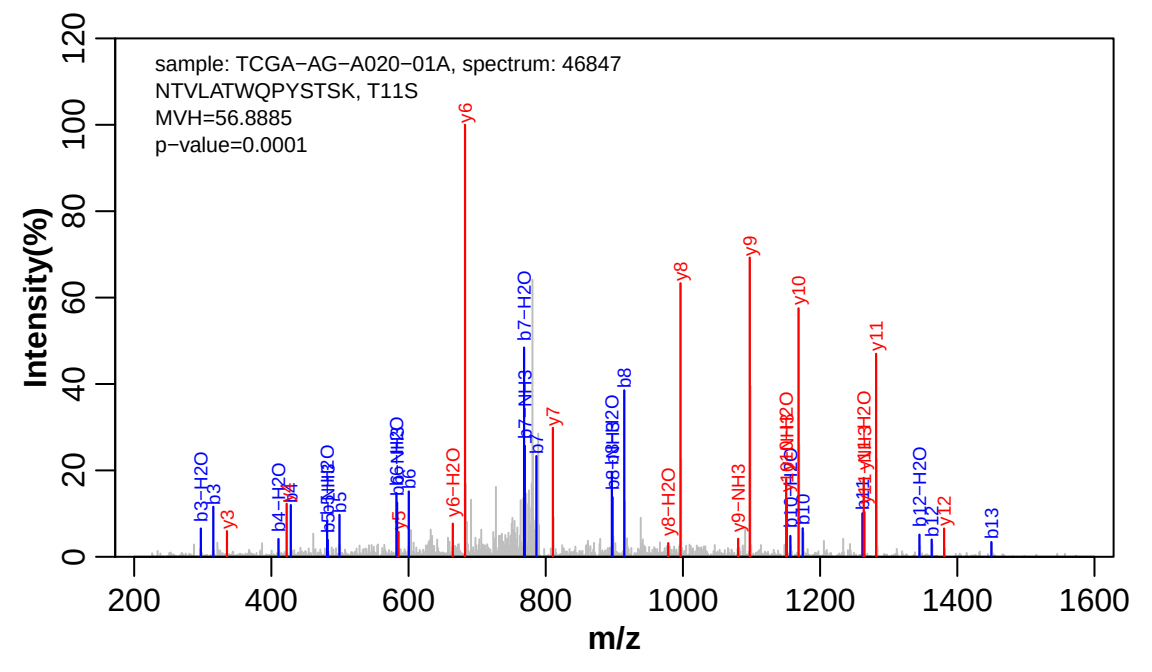

sample: TCGA−AG−A020−01A, spectrum: 38212
LVQNCLGTLR, W7G
MVH=56.4498
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y2
b3
y3
y4
b4
y5
b5
b6−NH3
b6
b7−NH3
b7
y7
b8−NH3
y8−NH3
y8
b9−H2O
b9

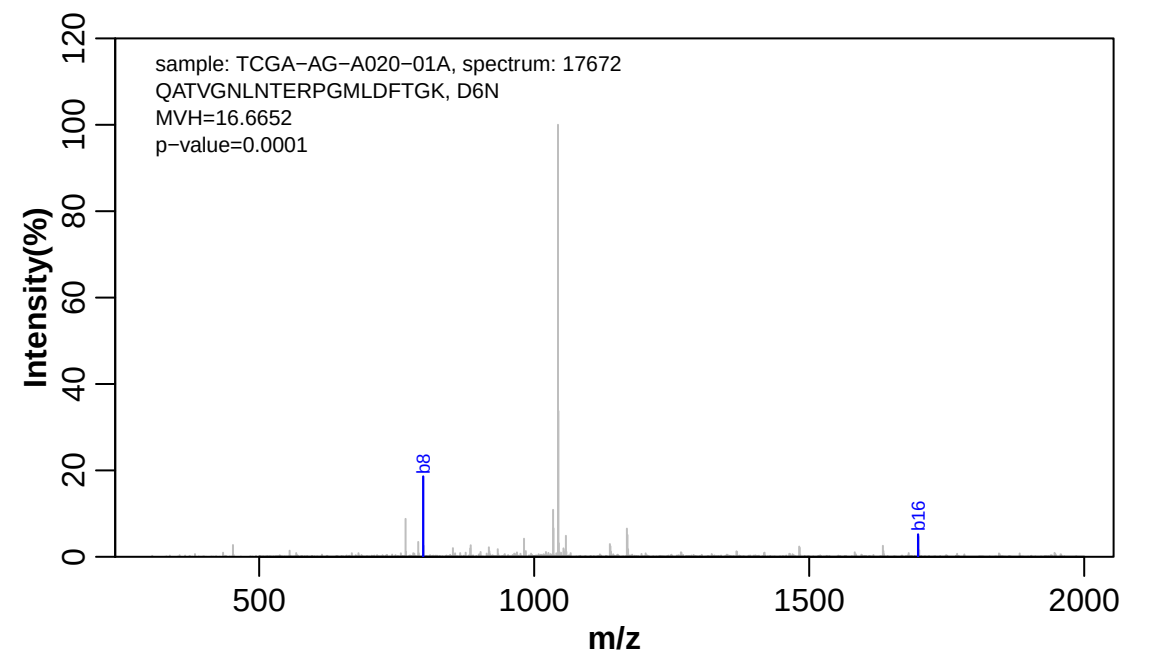

sample: TCGA−AG−A020−01A, spectrum: 4301
LVTDYTLAEADAALQK, E11D
MVH=79.0055
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y3
y4
y5
b5
y6
b6−H2O
b6
y7
b7−NH3
b7−H2O
b7
y8−NH3
y8−H2O
y8
b8
y9
b9−H2O
b9
y10−H2O
y10
b10−H2O
b10
y11
b11
b12−H2O
b12
y12
b13−H2O
b13
y13
b14−H2O
b14
y14
b15−H2O
b15

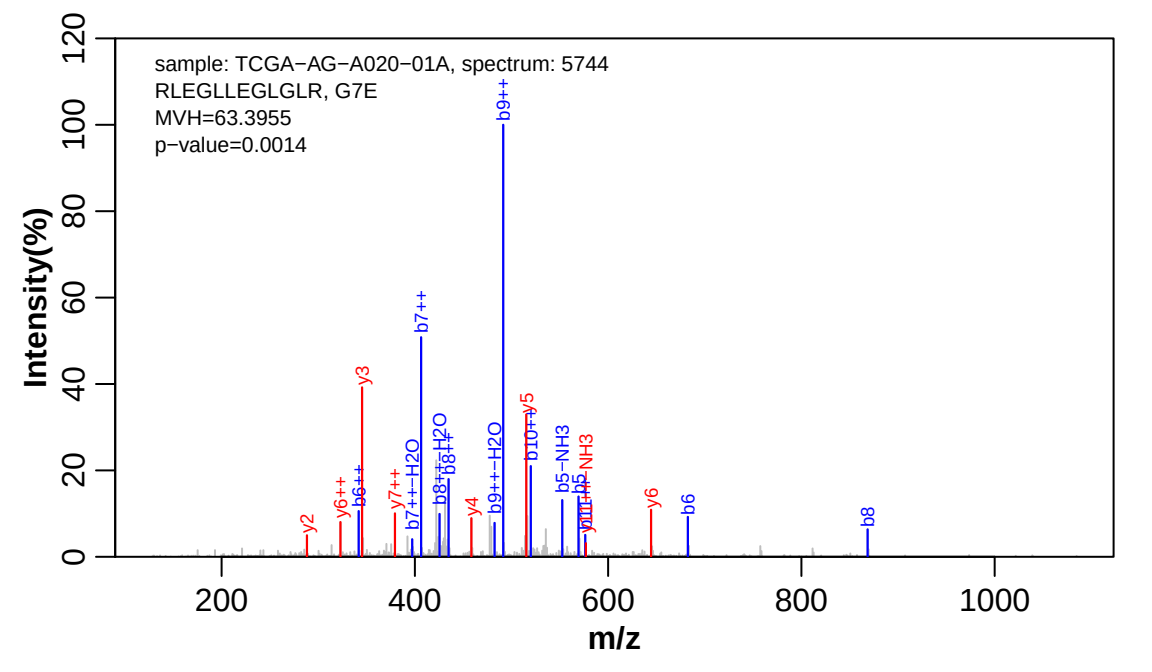

sample: TCGA−AG−A020−01A, spectrum: 10235
MQYAPNTQVELLPQGR, H16R
MVH=51.0284
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
y6
y7
y8
y9
y10
y12
y13
y14
b3
b4
b10
b11
b12
y4−H2O
y4−NH3
y7−H2O
y8−H2O
b4−NH3
b10−NH3
b11−H2O
b11−NH3
b12−H2O
b12−NH3

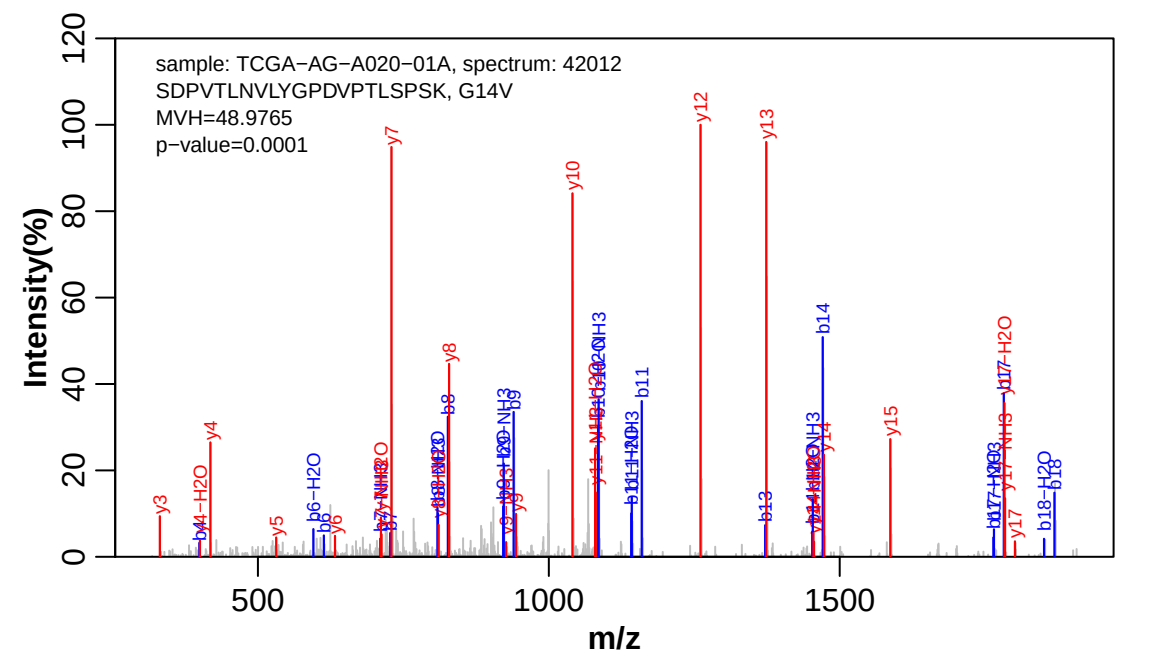

sample: TCGA−AG−A020−01A, spectrum: 93095
NEVLWHPTLNLPLSPQGTVR, A3V
MVH=43.5589
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
b11++
y9++
b11
y18++
y10++
b10
b9
b4
y9++ − H2O
y9 − H2O
y18++ − H2O
y10++ − NH3
b10++ − NH3
b14++ − NH3
y7
b14++
b13++
y15++
b7−y8O
y16−y10−H2O
y10−H2O
b18++ − H2O
b5
b11++ − H2O
y6++
b3

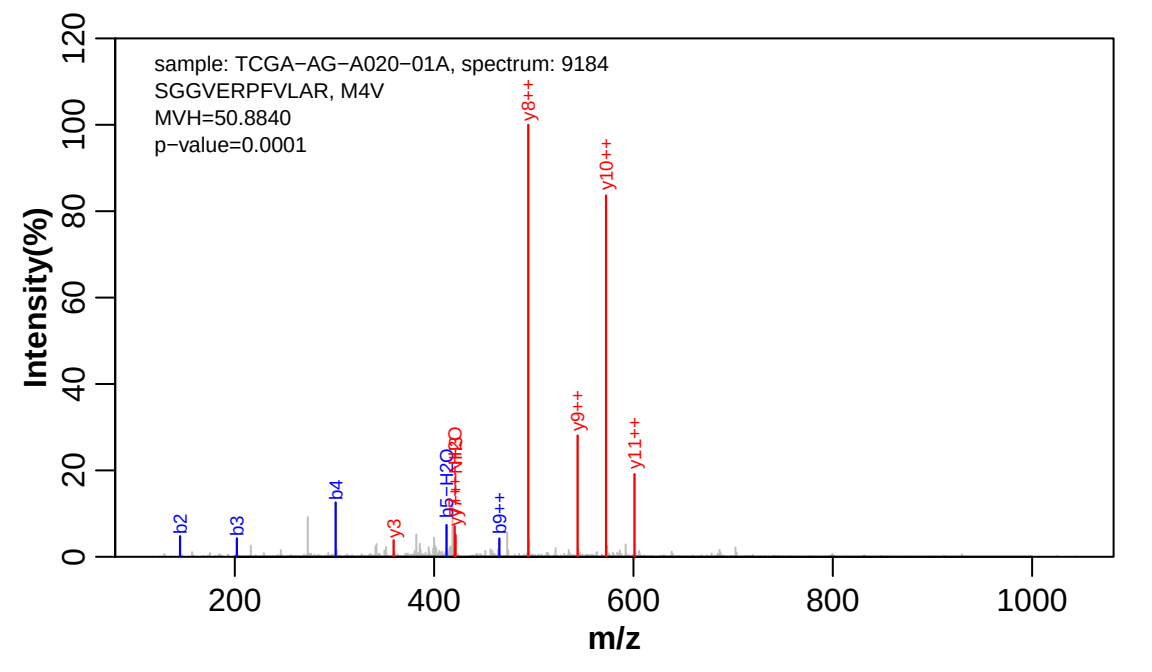

sample: TCGA−AG−A020−01A, spectrum: 26377
NPLLDLAAYDQEGR, R3L
MVH=49.9323
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
b8
b7
b9
y11
y9
b10
y4
b5
b11
b12
y12
b13
y10−NH3
y7−NH3
y8−H2O
b4−NH3

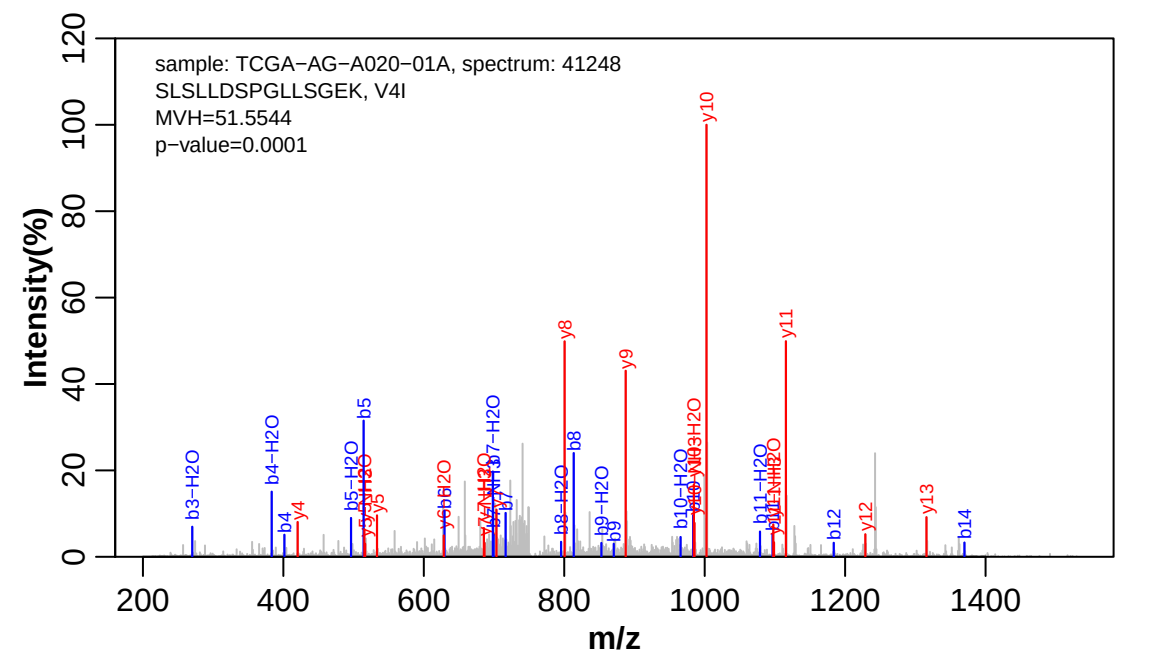

sample: TCGA−AG−A020−01A, spectrum: 46847
NTVLATWQPYSTSK, T11S
MVH=56.8885
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y6−H2O
b7−H2O
b7−NH3
b7
y7
b8
y8
y8−H2O
y9
y9−NH3
y10
y11
b12−H2O
b12
y12
b13
b3−H2O
b3
y3
b4−H2O
b4
b5
b6
y5
b10
b11
y11−NH3−H2O

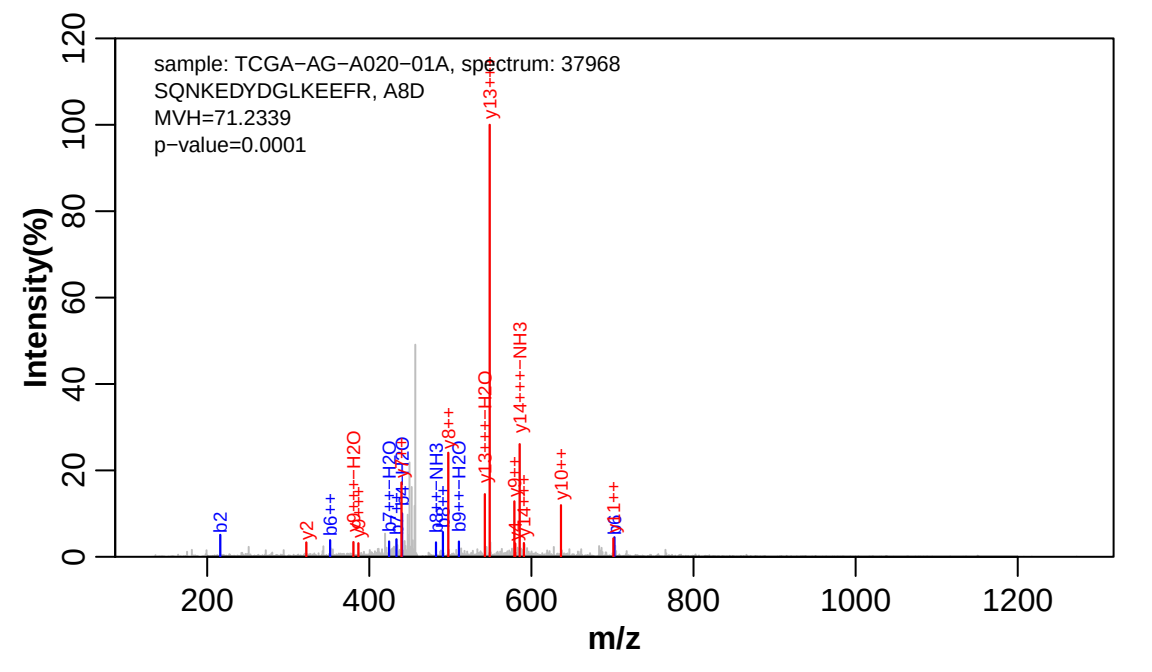

sample: TCGA−AG−A020−01A, spectrum: 17672
QATVGNLNTERPGMLDFTGK, D6N
MVH=16.6652
p−value=0.0001
b8
b16
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

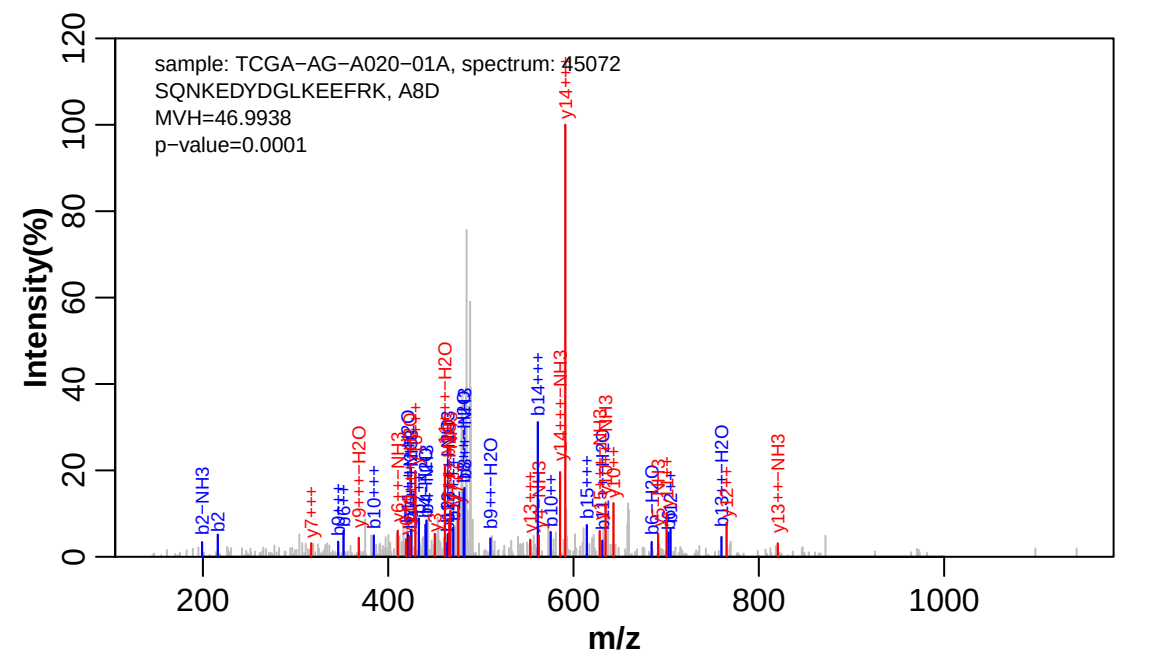

sample: TCGA−AG−A020−01A, spectrum: 5744
RLEGLLEGLGLR, G7E
MVH=63.3955
p−value=0.0014
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
y6++
b6++
y3
y7++
b7++−H2O
b7++
b8++−H2O
b8++
y4
b9++−H2O
b9++
b10+y5
b5−NH3
y11++−NH3
y6
b6
b8

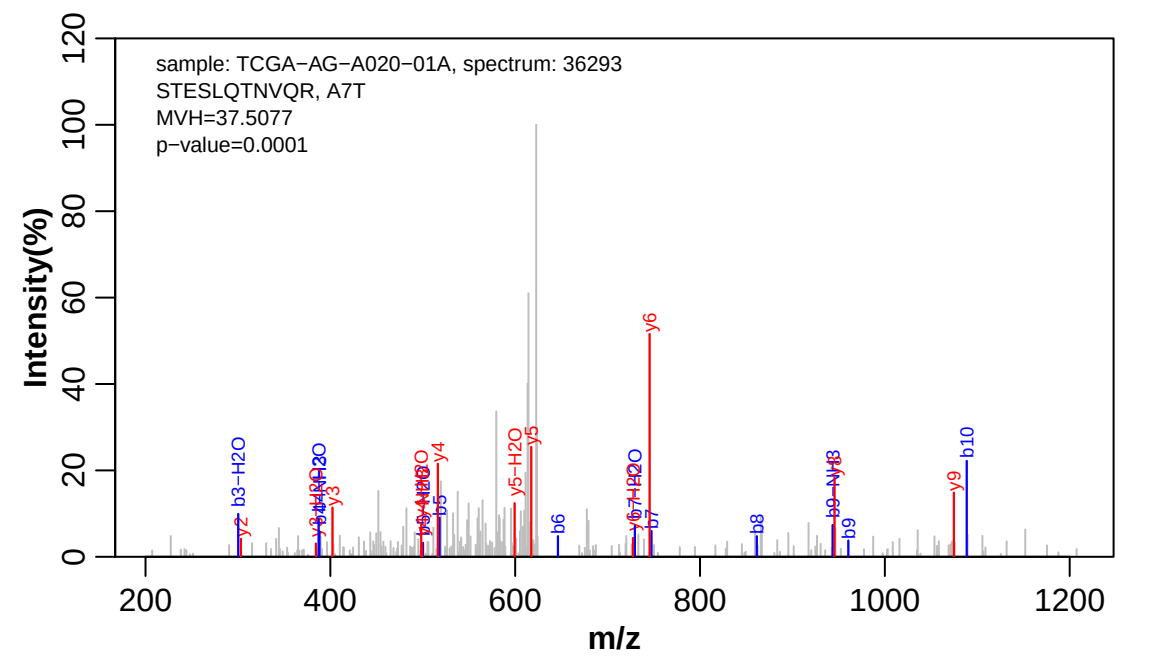

sample: TCGA−AG−A020−01A, spectrum: 42012
SDPVTLNVLYGPDVPTLSPSK, G14V
MVH=48.9765
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y12
y13
y7
y10
y8
b14
y15
b11
y4
y3
y5
b6−H2O
b18−H2O
y17−H2O
y17
b13

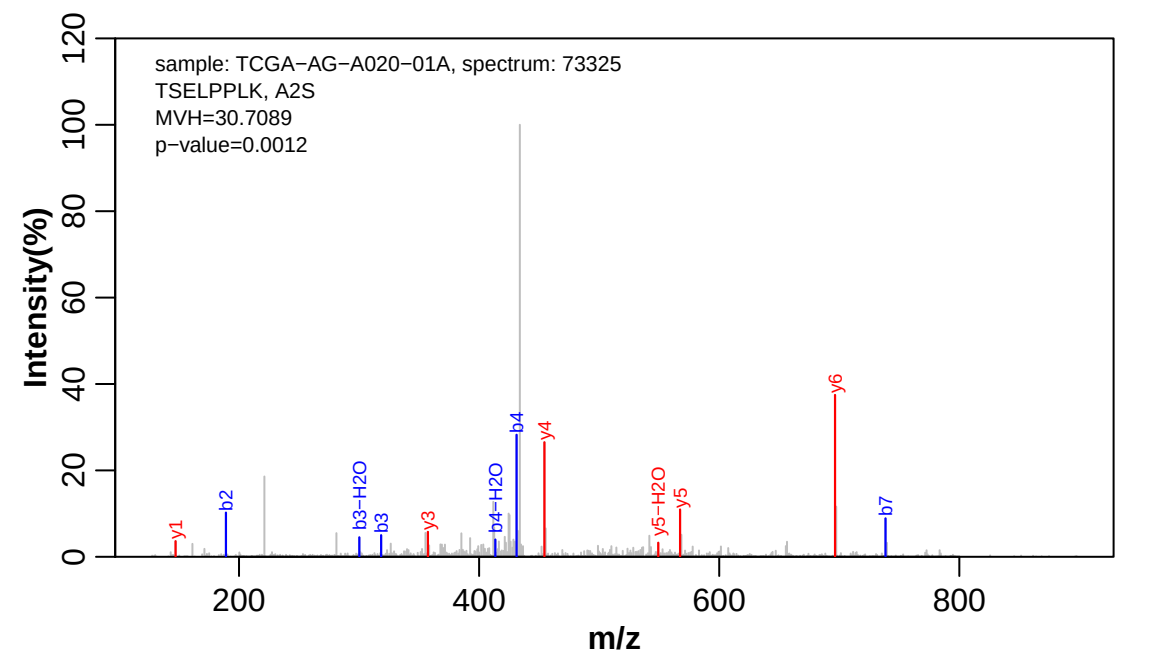

sample: TCGA−AG−A020−01A, spectrum: 9184
SGGVERPFVLAR, M4V
MVH=50.8840
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b4
y3
b5−H2O
y7++NH3
y7++H2O
b9++
y8++
y9++
y10++
y11++

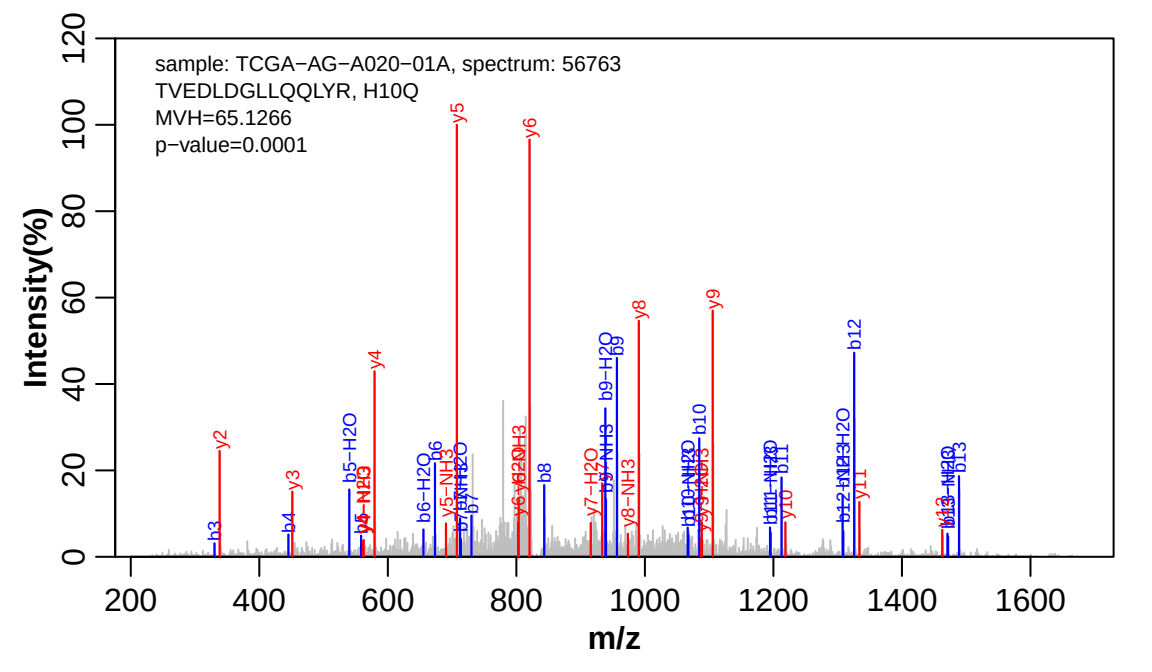

sample: TCGA−AG−A020−01A, spectrum: 41248
SLSLLDSPGLLSGEK, V4I
MVH=51.5544
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y10
y11
y8
y9
y13
y12
y5
y4
b3−H2O
b4−H2O
b4
b5
b5−H2O
b8
b8−H2O
b9−H2O
b10−H2O
b11−H2O
b12
b14

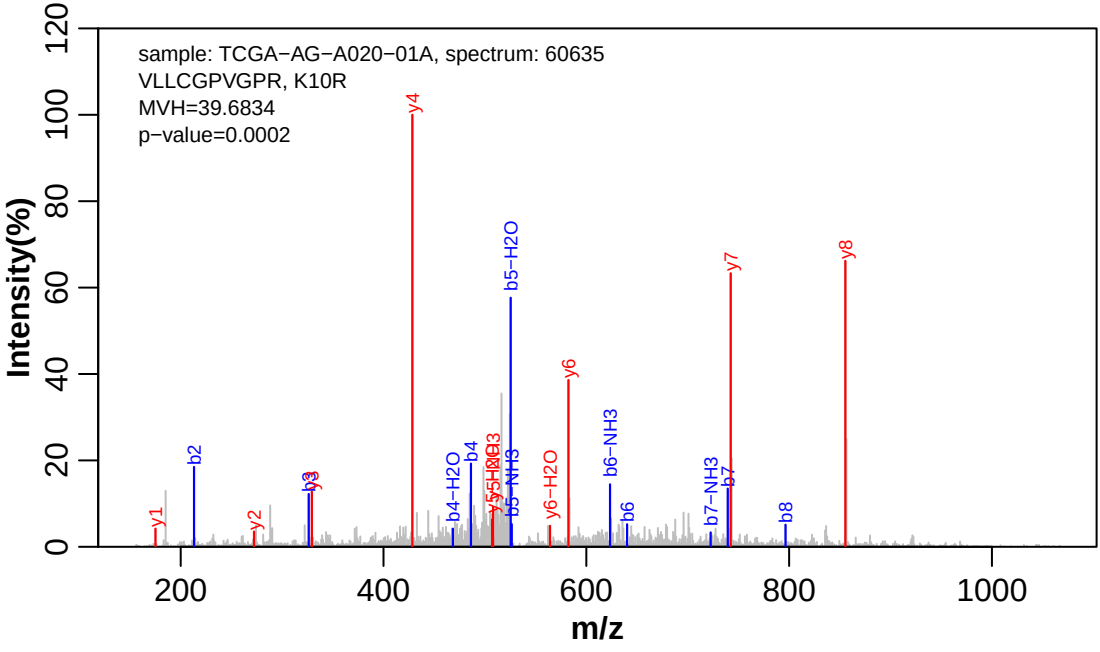

sample: TCGA−AG−A020−01A, spectrum: 37968
SQNKEDYDGLKEEFR, A8D
MVH=71.2339
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b6++
y13+++−H2O
b7++−H2O
b7++−NH3
b8++−NH3
b8++−H2O
b9++−H2O
y13+++−H2O
y14+++−NH3
y10++
b11++
y13++

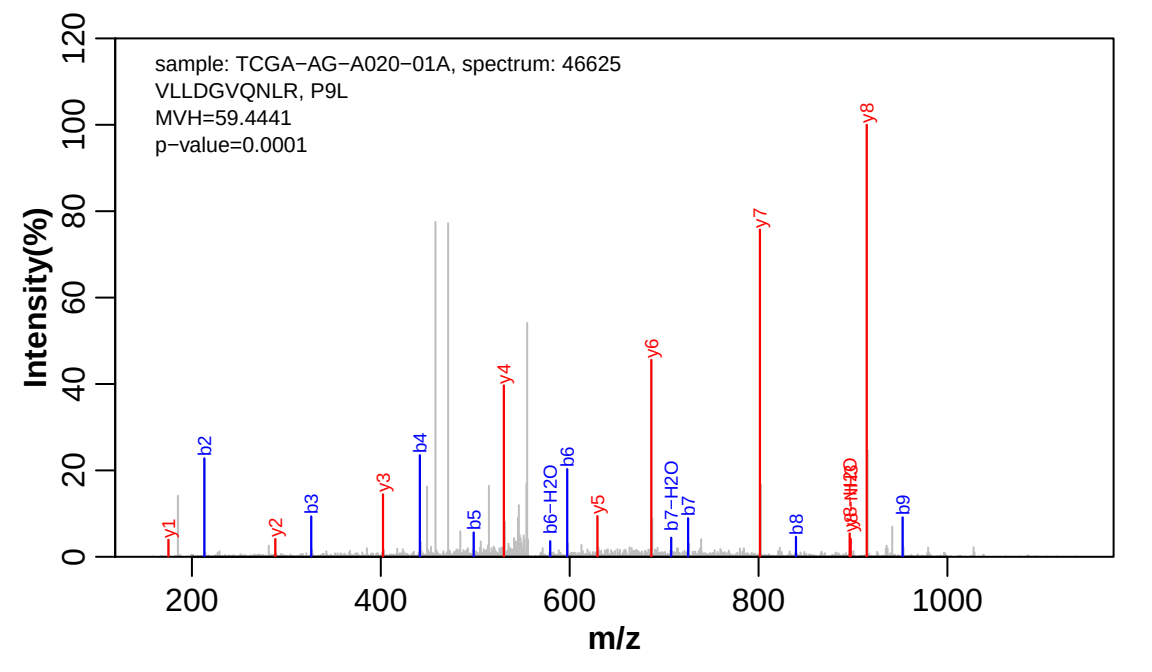

sample: TCGA−AG−A020−01A, spectrum: 45072
SQNKEDYDGLKEEFRK, A8D
MVH=46.9938
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−NH3
b2
y7+++
y9+++−H2O
b10+++
b9++−H2O
b14+++
y14+++−NH3
b10++
b15+++
b6−H2O
b12++−H2O
y13++−NH3

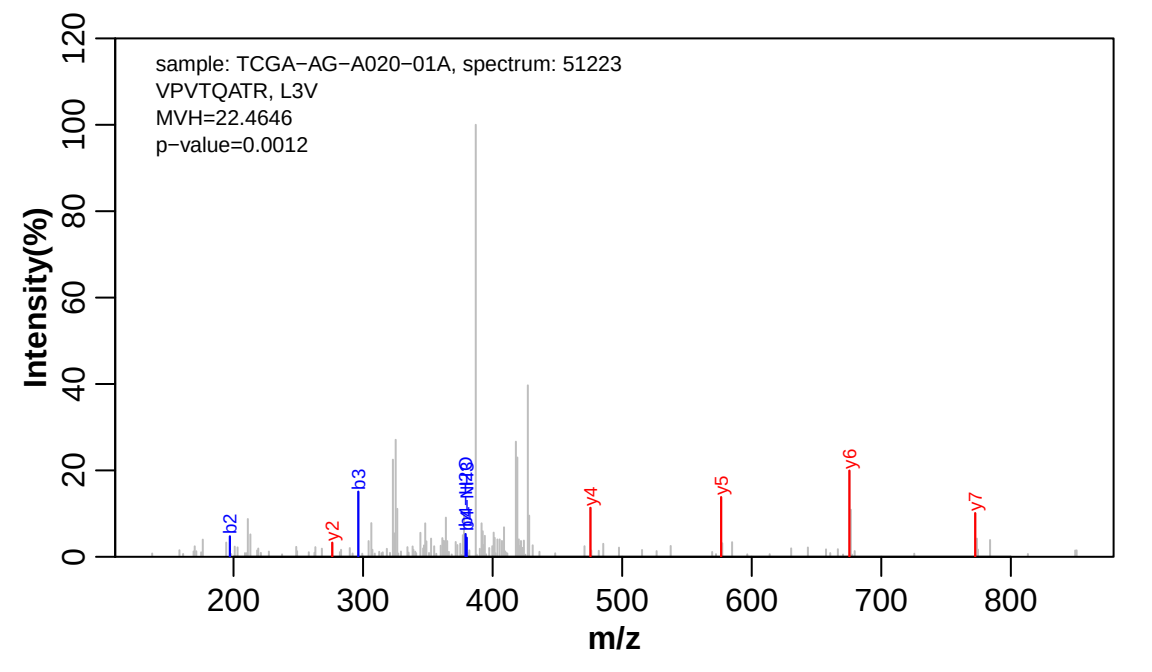

sample: TCGA−AG−A020−01A, spectrum: 36293
STESLQTNVQR, A7T
MVH=37.5077
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
y2
b3−H2O
y3
y4
b5
y5−H2O
y5
b6
y6
y7−H2O
b7
b8
b9
b10
y9

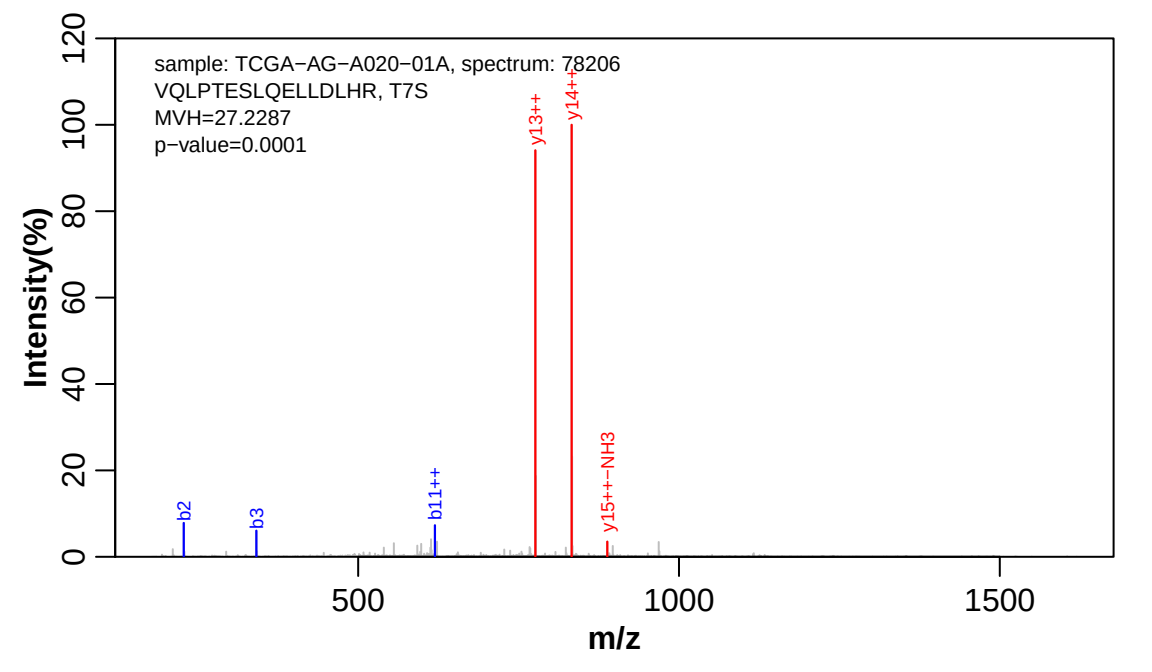

sample: TCGA−AG−A020−01A, spectrum: 73325
TSELPPLK, A2S
MVH=30.7089
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
b3−H2O
b3
y3
b4−H2O
b4
y4
y5−H2O
y5
y6
b7

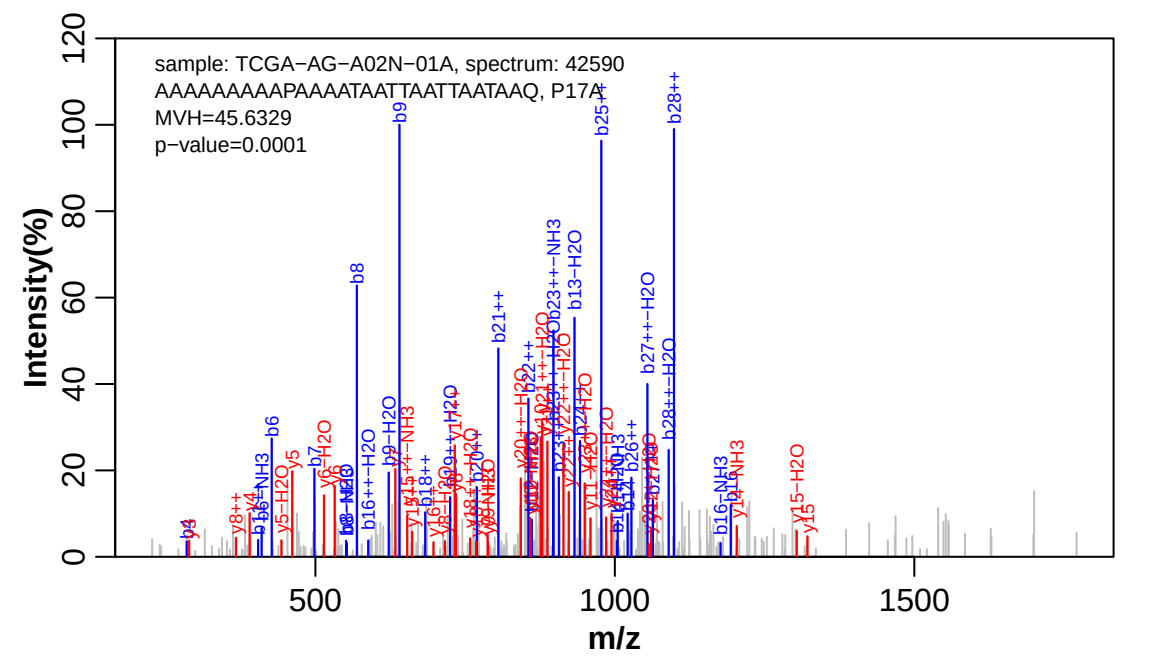

sample: TCGA−AG−A020−01A, spectrum: 56763
TVEDLDGLLQQLYR, H10Q
MVH=65.1266
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y2
b4
y3
b5−H2O
y4
b6−H2O
y5−NH3
y5
y6
b8
y7−H2O
b9−NH3
b9
b9−H2O
y8−NH3
y8
y9
b10
b11
y10
y11
b12
b13

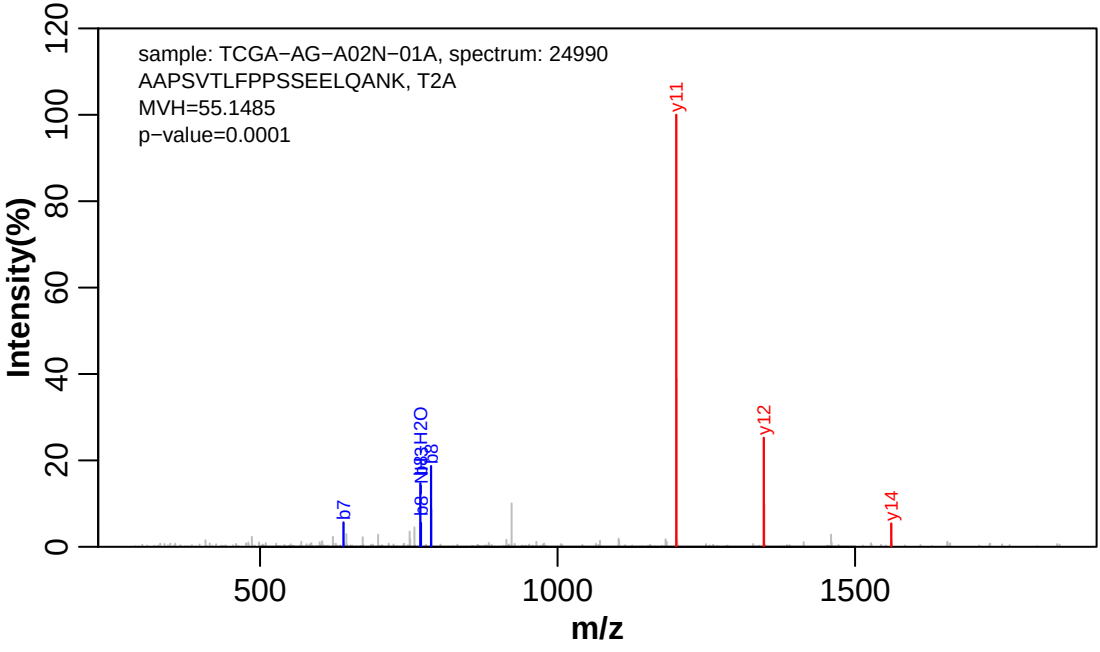

sample: TCGA−AG−A020−01A, spectrum: 60635
VLLCGPVGPR, K10R
MVH=39.6834
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y1
b2
y2
b3
y3
y4
b4−H2O
b4
y5−H2O
y5−NH3
y5
b5−NH3
b5−H2O
y6−H2O
y6
b6−NH3
b6
b7−NH3
b7
y7
b8
y8

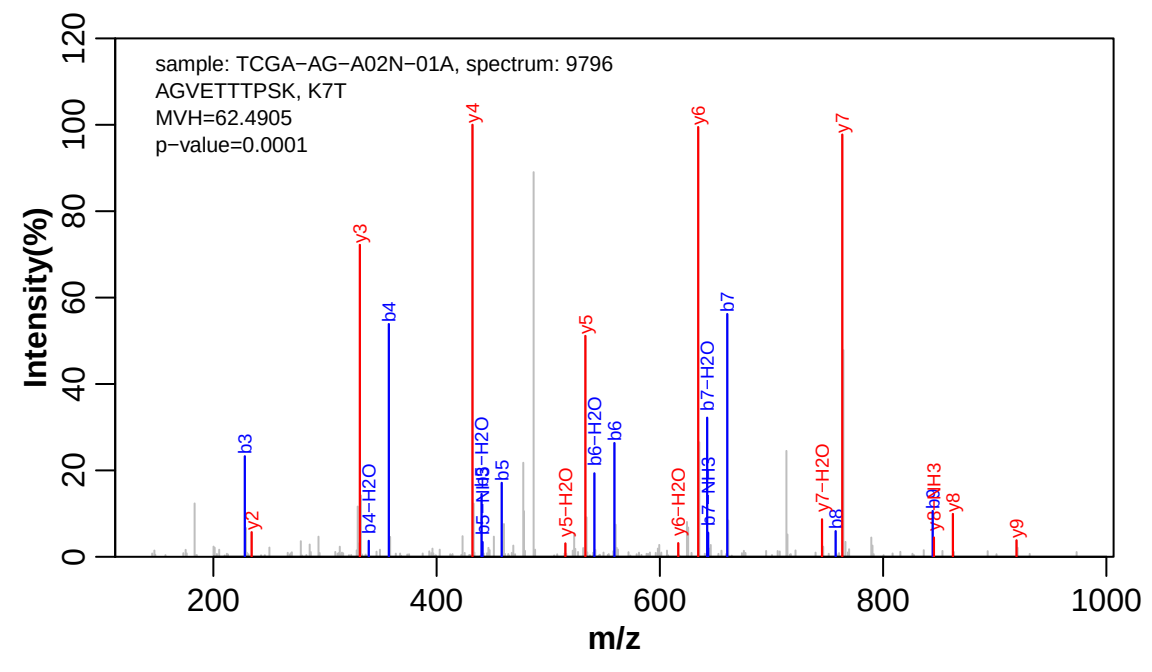

sample: TCGA−AG−A020−01A, spectrum: 46625
VLLDGVQNLR, P9L
MVH=59.4441
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
y1
b2
y2
b3
y3
b4
b5
y4
b6−H2O
b6
y5
y6
b7−H2O
b7
b8
y7
y8
b9

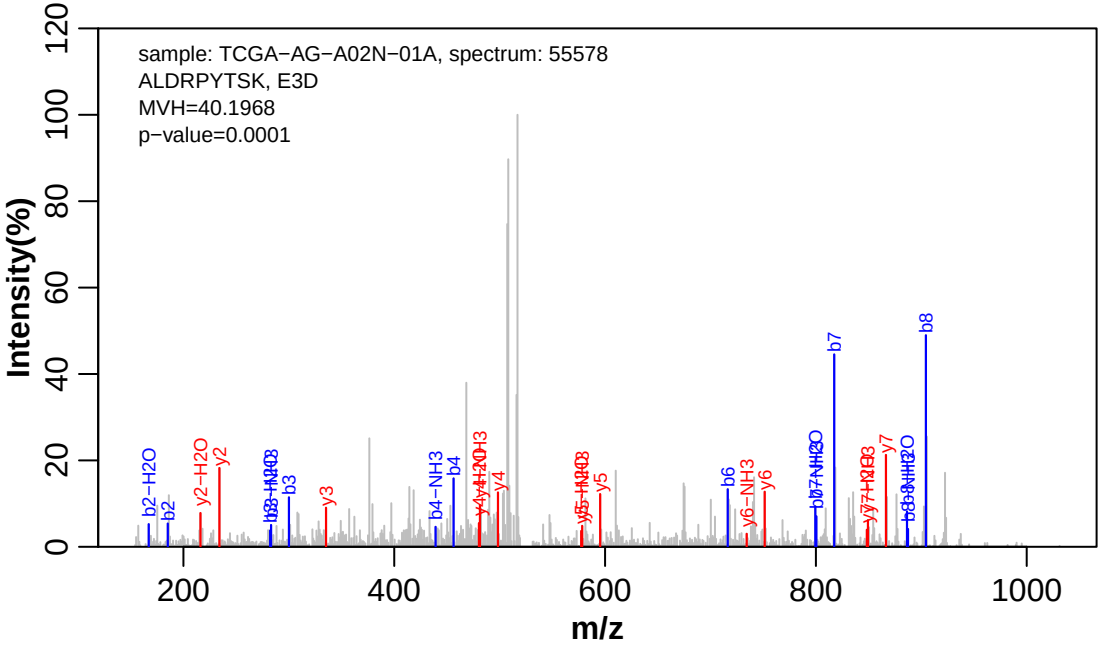

sample: TCGA−AG−A020−01A, spectrum: 51223
VPVTQATR, L3V
MVH=22.4646
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
m/z
200
300
400
500
600
700
800
b2
y2
b3
y4
y5
y6
y7

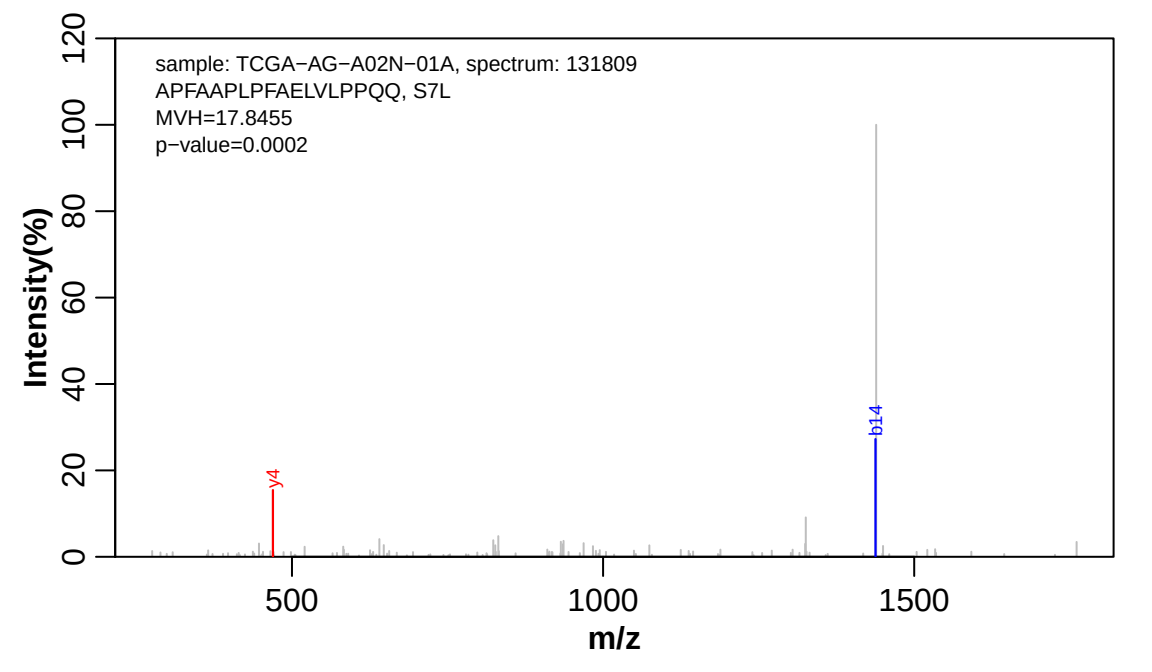

sample: TCGA−AG−A020−01A, spectrum: 78206
VQLPTESLQELLDLHR, T7S
MVH=27.2287
p−value=0.0001
y13++
y14++
y15++−NH3
b11++
b2
b3
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

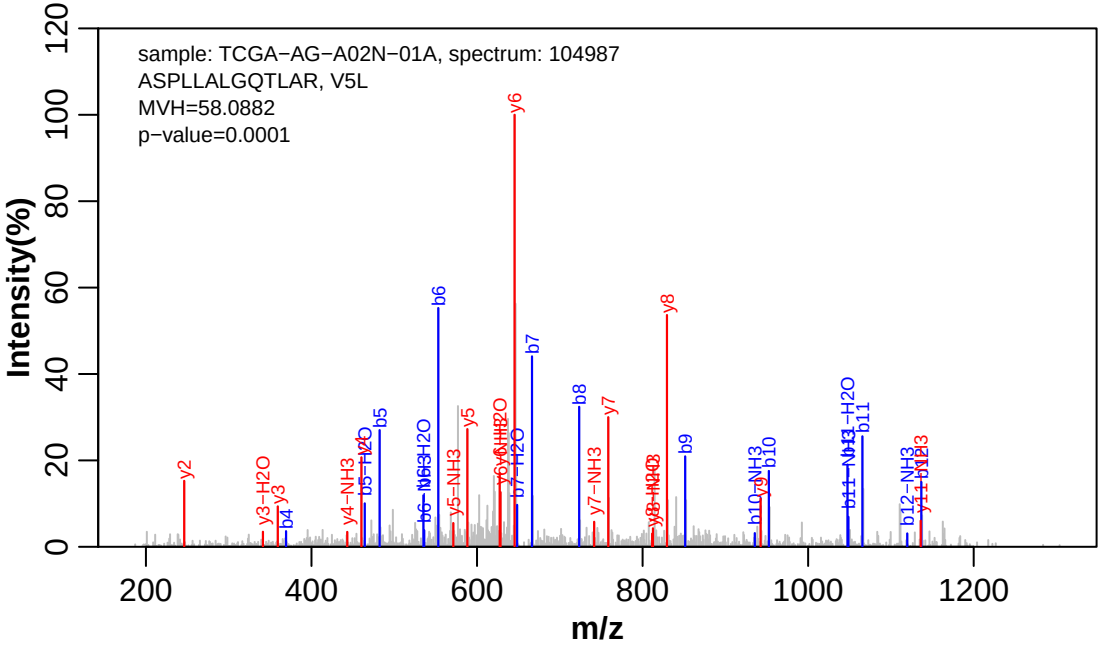

sample: TCGA−AG−A02N−01A, spectrum: 42590
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=45.6329
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b9
b28++
b25++
b8
b13−H2O
b21++
b23++−NH3
b27++−H2O
b6
y5
y5−H2O
b7
y6−H2O
b16++−H2O
b9−H2O
b9−NH3
y15++−NH3
y15−H2O
y15−NH3
b16−NH3
y4
y8++

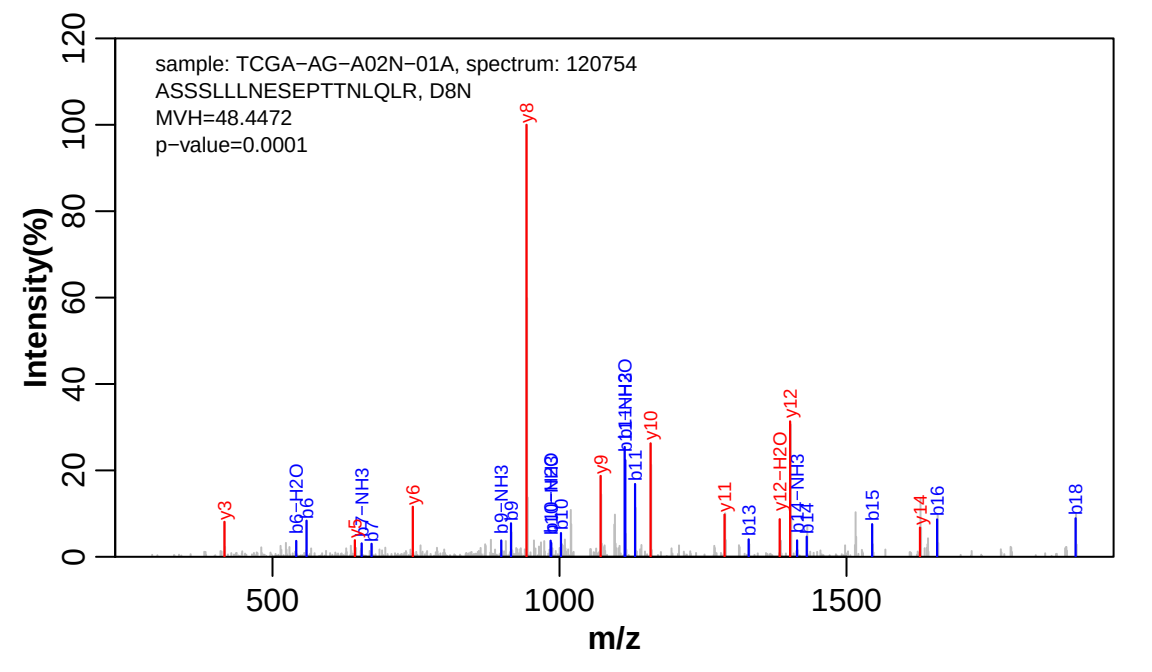

sample: TCGA−AG−A02N−01A, spectrum: 24990
AAPSVTLFPPSSEELQANK, T2A
MVH=55.1485
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
b7
b8
b8−NH3
b8−H2O

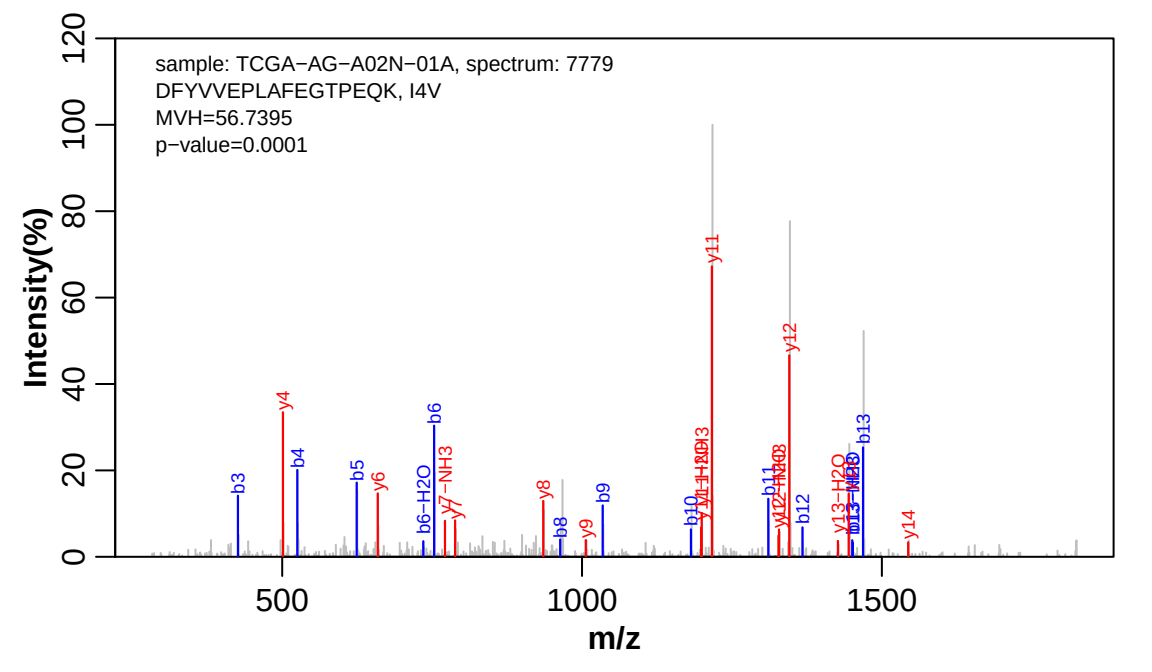

sample: TCGA−AG−A02N−01A, spectrum: 9796
AGVETTTPSK, K7T
MVH=62.4905
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y4
y6
y7
y3
b4
y5
b7
b3
b6−H2O
b6
b7−H2O
y2
b4−H2O
b5
y5−H2O
y6−H2O
b7−NH3
y7−H2O
b8
y8
y9

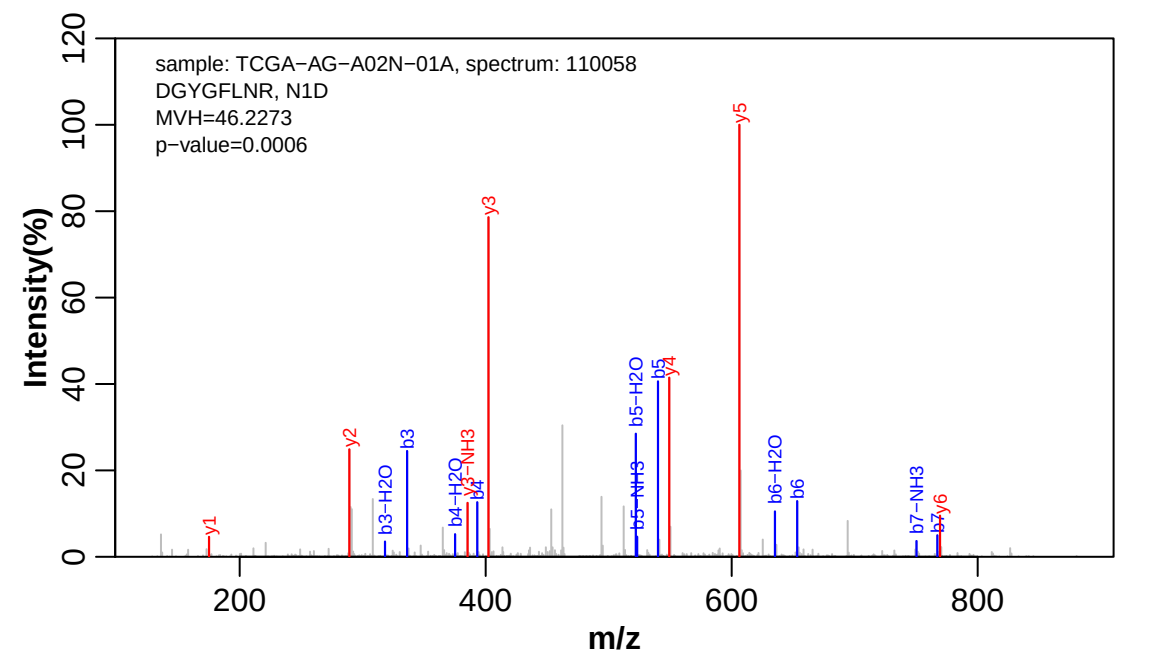

sample: TCGA−AG−A02N−01A, spectrum: 55578
ALDRPYTSK, E3D
MVH=40.1968
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2−H2O
b2
y2−H2O
y2
b3
y3
b4−NH3
b4
y4
y5
b6
y6−NH3
y6
b7
y7
b8

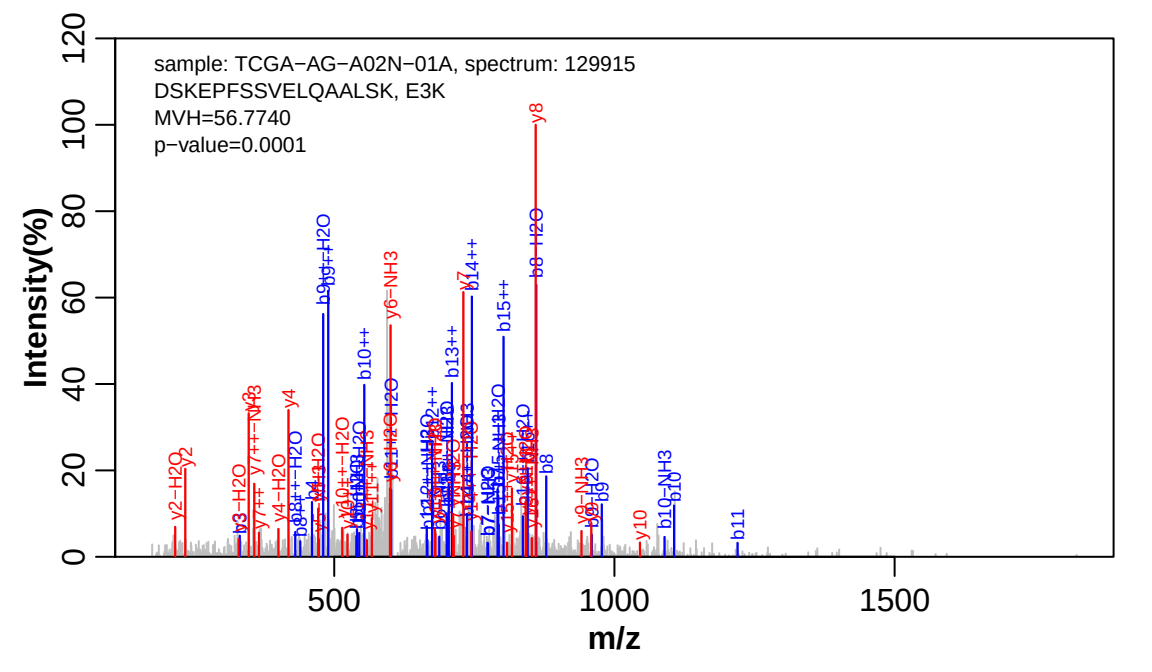

sample: TCGA−AG−A02N−01A, spectrum: 131809
APFAAPLPFAELVLPPQQ, S7L
MVH=17.8455
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
y4
b14
500
1000
1500
m/z

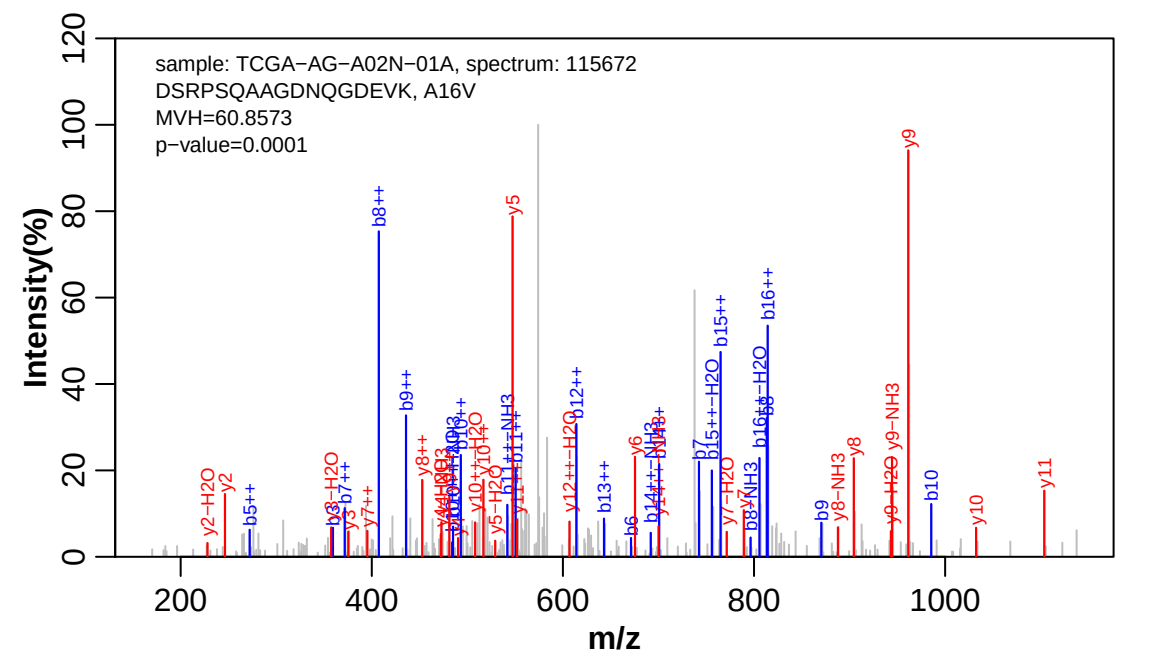

sample: TCGA−AG−A02N−01A, spectrum: 104987
ASPLLALGQTLAR, V5L
MVH=58.0882
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y8
b6
b7
b8
y7
y5
y2
b9
b5
b10
b11
b4
y3
b12
b13

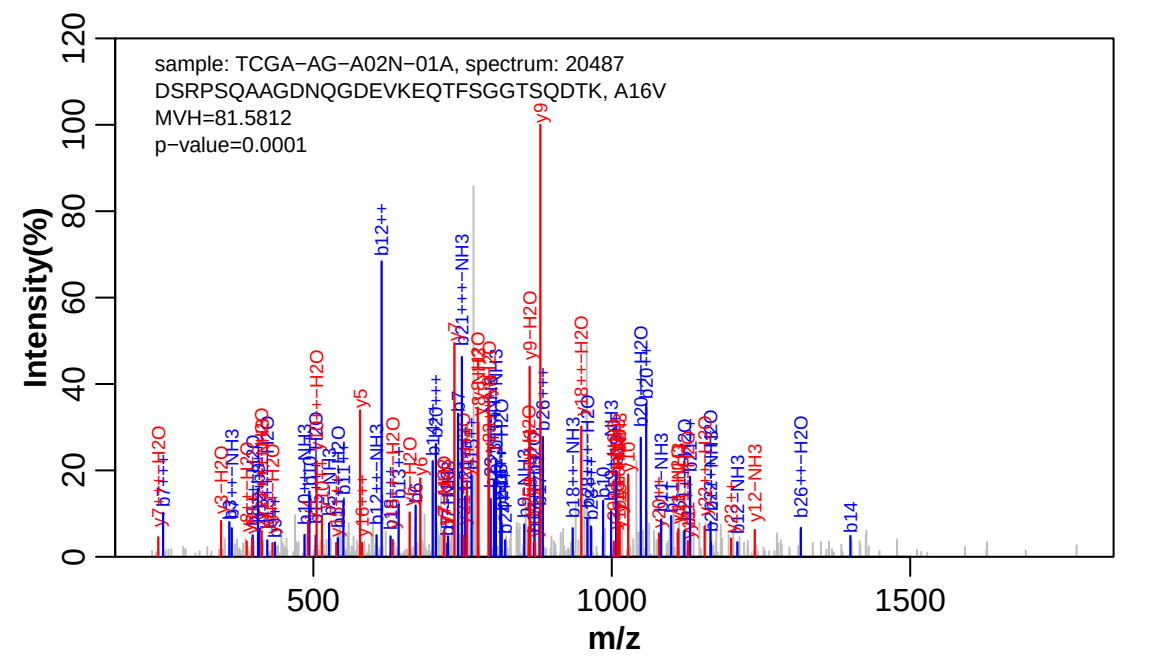

sample: TCGA−AG−A02N−01A, spectrum: 120754
ASSSLLLNESEPTTNLQLR, D8N
MVH=48.4472
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y3
b6−H2O
b6
y5
y5−NH3
b7
y6
b9−NH3
b9
y8
b10−NH3
b10
y9
b11−NH3
b11−H2O
b11
y10
y11
b13
y12−H2O
y12
b14−NH3
b14
b15
y14
b16
b18

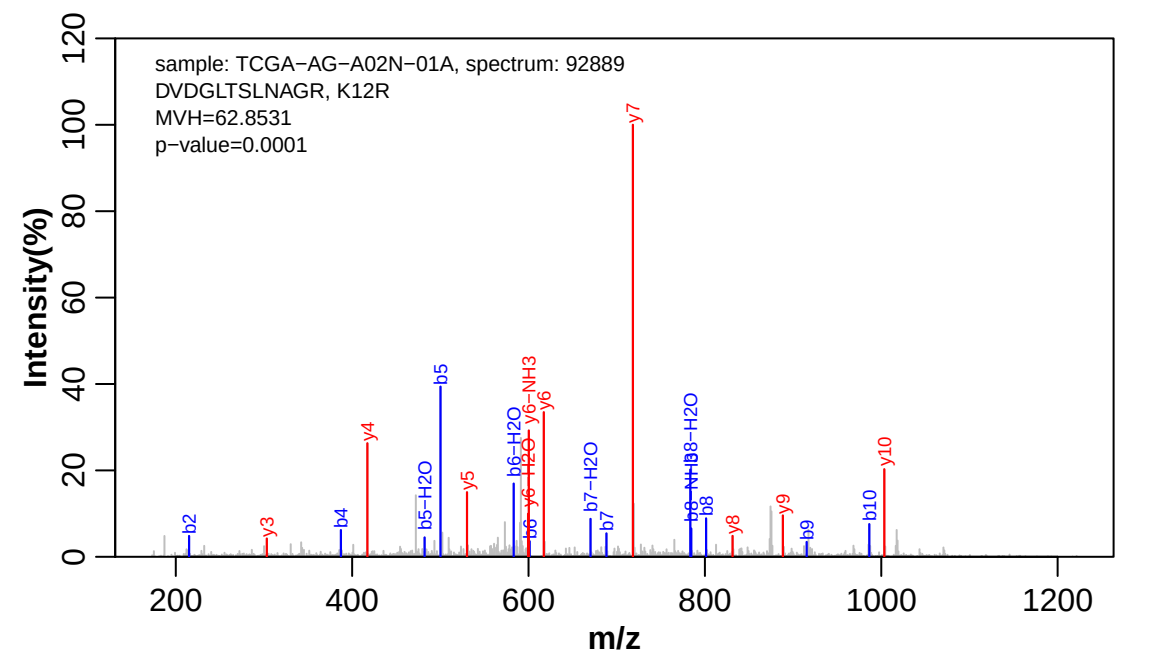

sample: TCGA−AG−A02N−01A, spectrum: 7779
DFYVVEPLAFEGTPEQK, I4V
MVH=56.7395
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
b5
y6
b6
b6−H2O
y7−NH3
y8
b8
y9
b9
b10
y11
y11−H2O
y11−NH3
b11
y12
y12−H2O
y12−NH3
b12
b13
y13−H2O
y13−NH3
y14

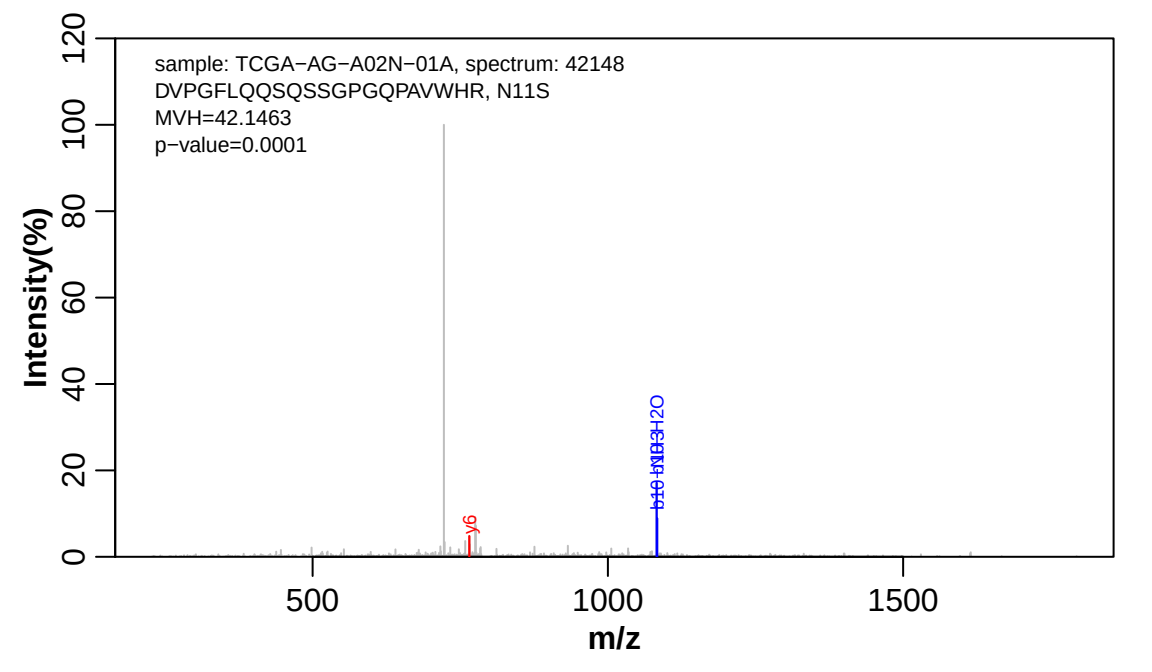

sample: TCGA−AG−A02N−01A, spectrum: 110058
DGYGFLNR, N1D
MVH=46.2273
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−NH3
b7
y6

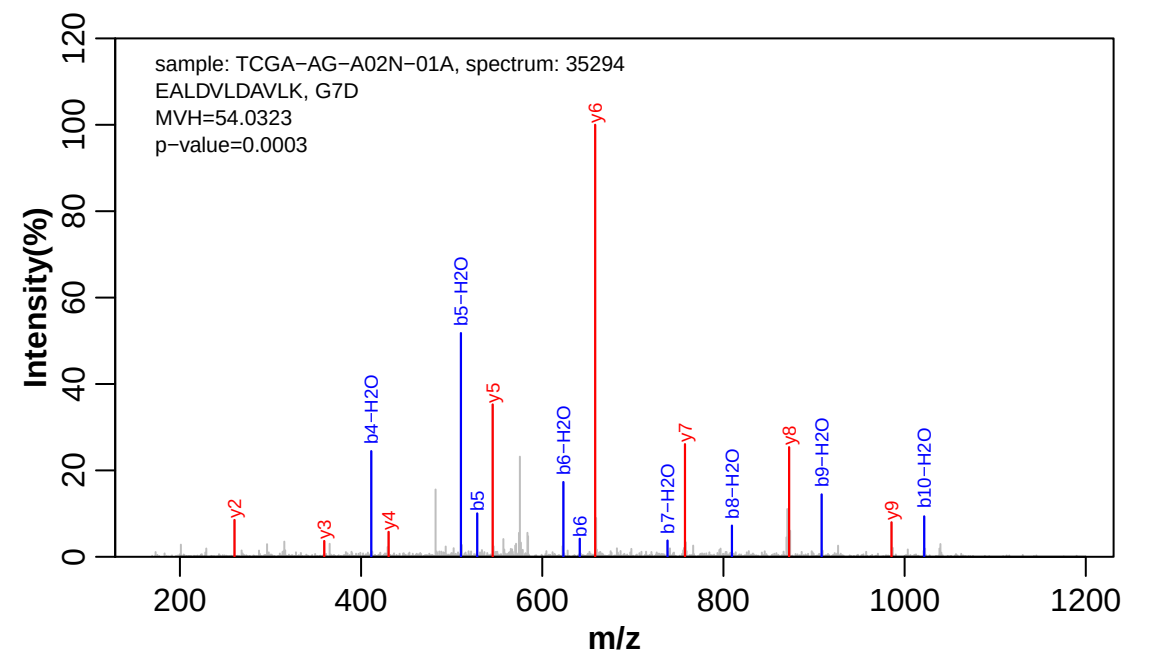

sample: TCGA−AG−A02N−01A, spectrum: 129915
DSKEPFSSVELQAALSK, E3K
MVH=56.7740
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y8−H2O
y6−NH3
b14++
b15++
b13++
b10++
b9++−H2O
y4
y2
y2−H2O
b3−H2O
b8
y10
b10−NH3
b11

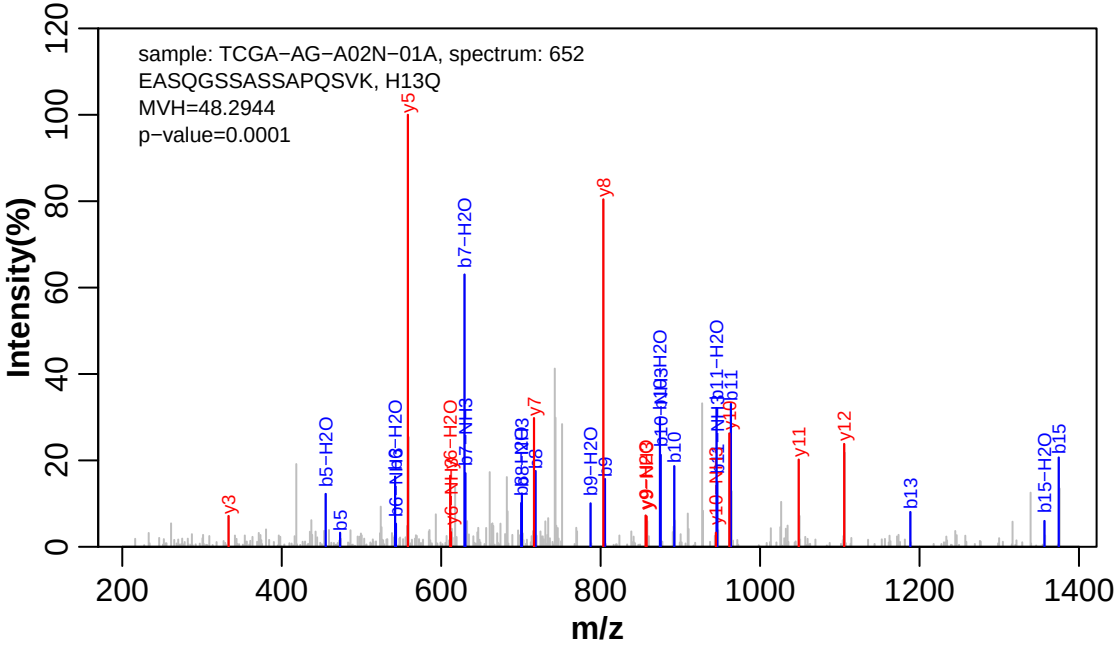

sample: TCGA−AG−A02N−01A, spectrum: 115672
DSRPSQAAGDNQGDEVK, A16V
MVH=60.8573
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2−H2O
y2
b5++
b8++
b9++
y5
y9
y11
y10
b10
y8
y8−NH3
y9−NH3
b12++
b15++
b16++

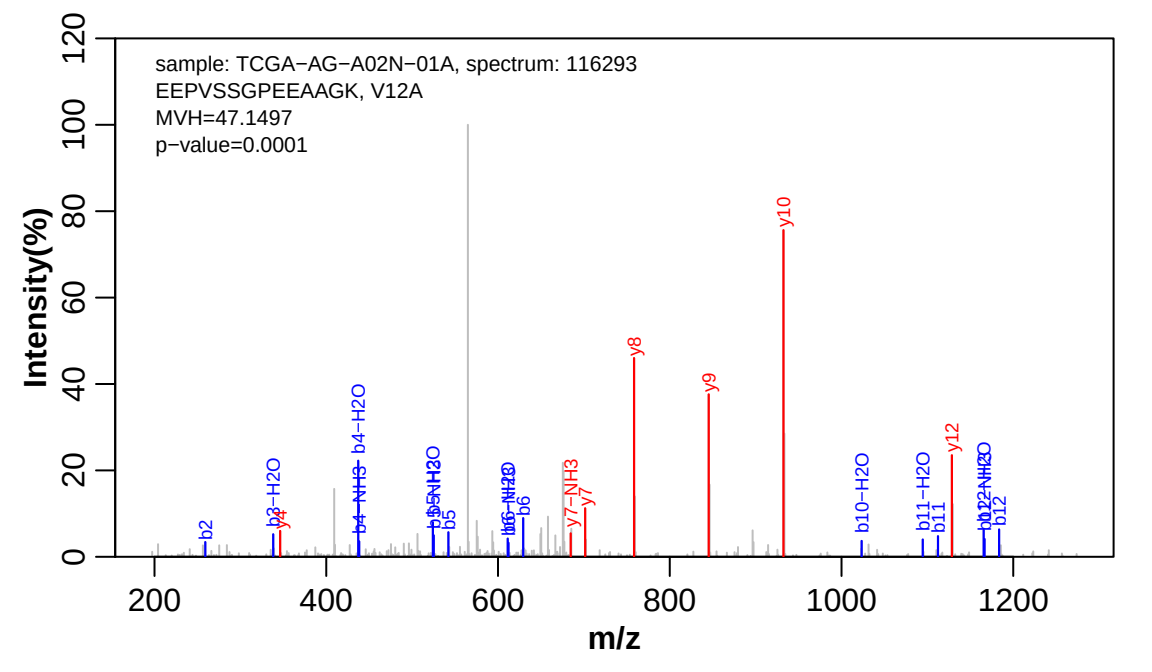

sample: TCGA−AG−A02N−01A, spectrum: 20487
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=81.5812
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

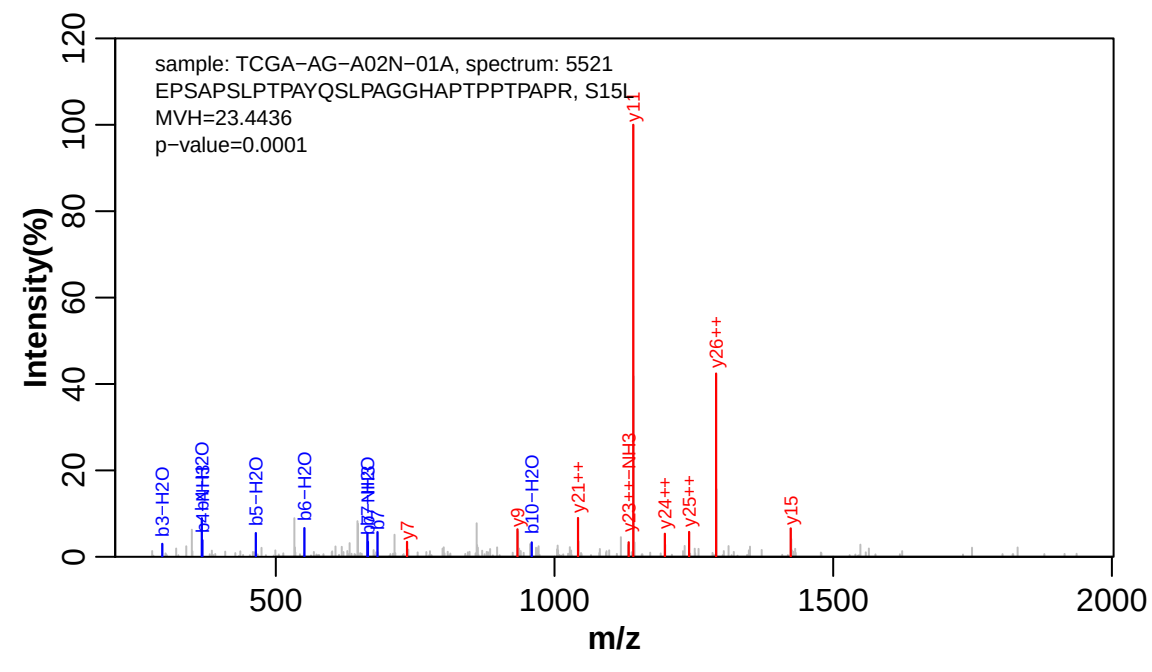

sample: TCGA−AG−A02N−01A, spectrum: 92889
DVDGLTSLNAGR, K12R
MVH=62.8531
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y3
b4
y4
b5
b5−H2O
y5
b6−H2O
b6−NH3
y6−H2O
y6−NH3
y6
b7−H2O
b7
y7
b8−NH3
b8−H2O
b8
y8
y9
b9
b10
y10

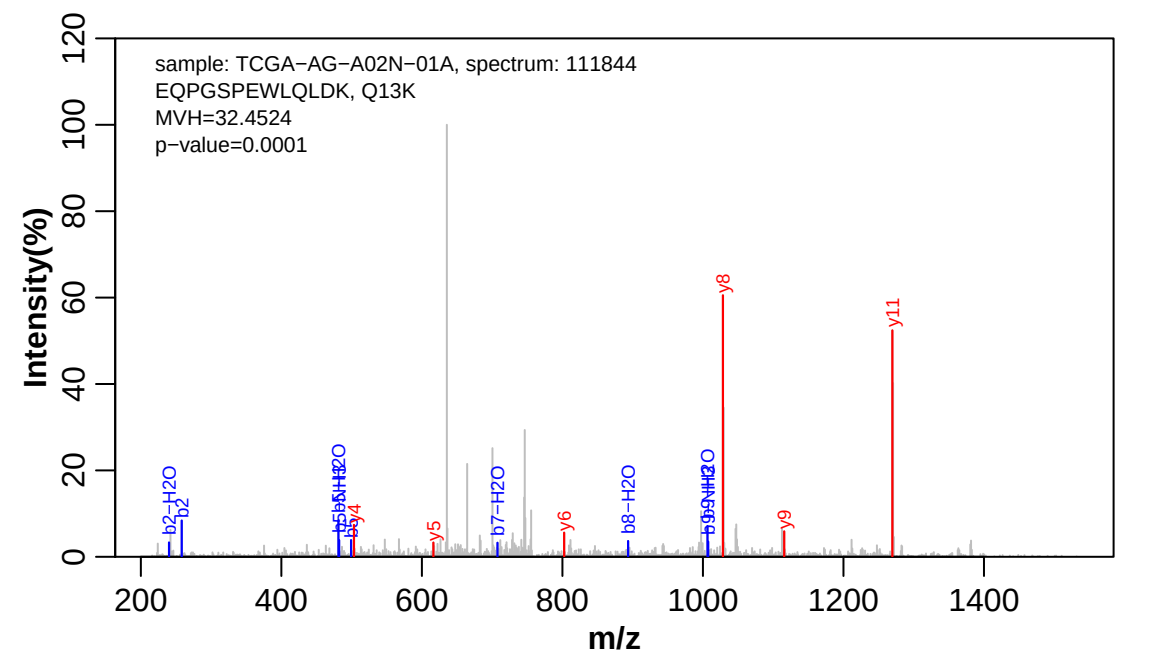

sample: TCGA−AG−A02N−01A, spectrum: 42148
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=42.1463
p−value=0.0001
y6
b10
b10+H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

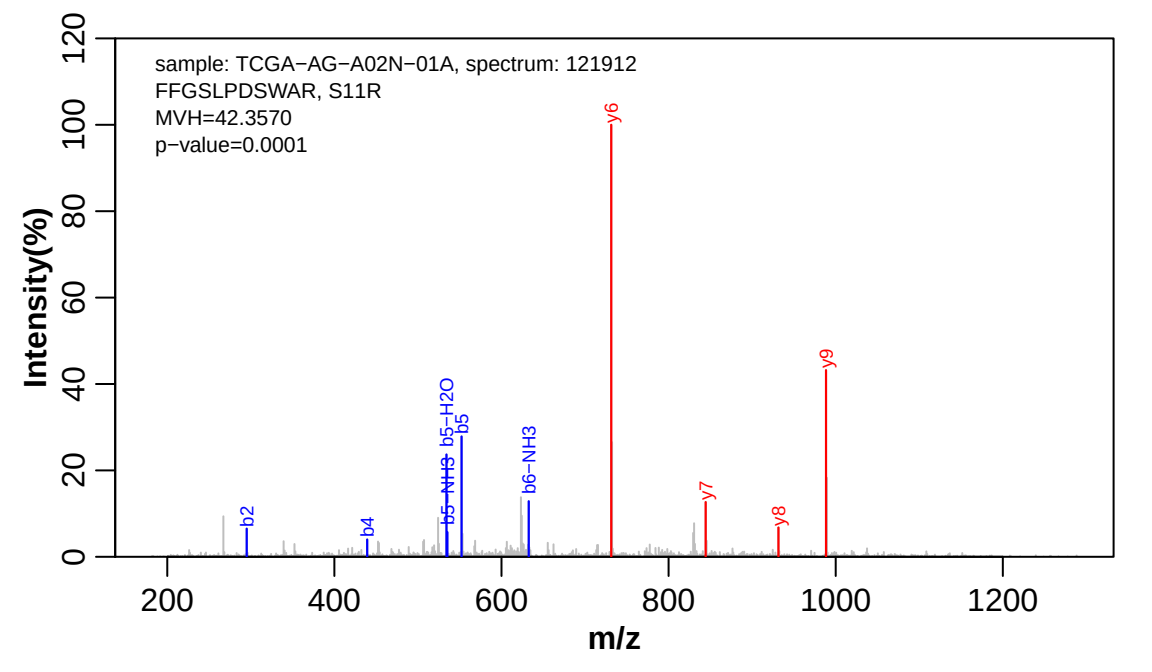

sample: TCGA−AG−A02N−01A, spectrum: 35294
EALDVLDAVLK, G7D
MVH=54.0323
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
y7
b8−H2O
y8
b9−H2O
y9
b10−H2O

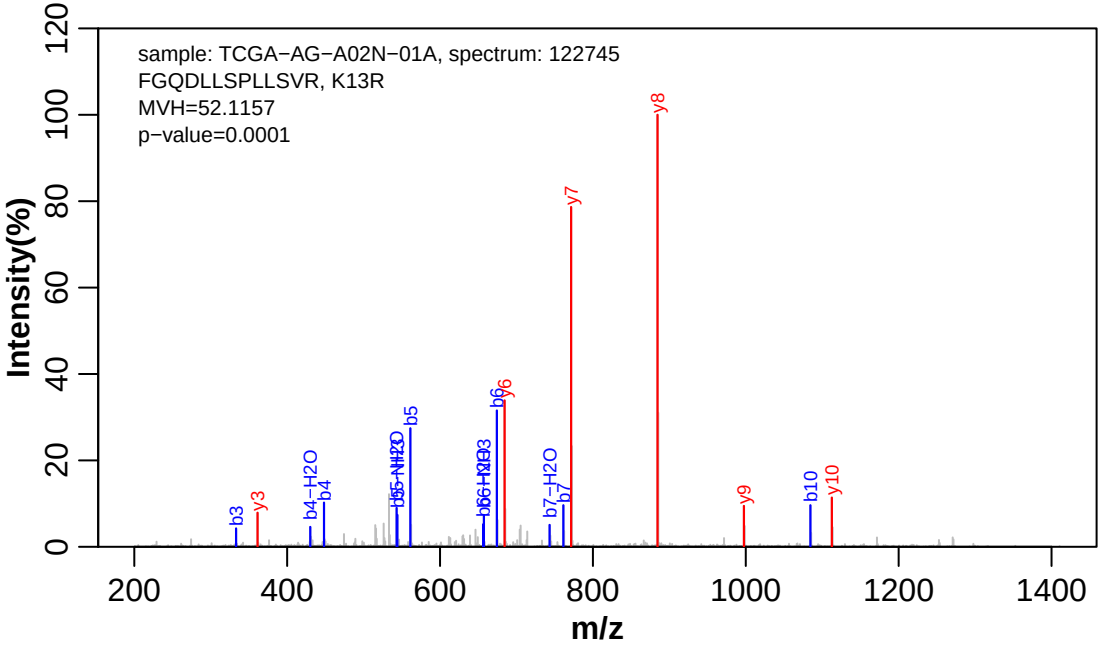

sample: TCGA−AG−A02N−01A, spectrum: 652
EASQGSSASSAPQSVK, H13Q
MVH=48.2944
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y5
y8
b7−H2O
b5−H2O
b5
y3
y7
b9−H2O
b9
b10
y11
y12
b13
b15−H2O
b15

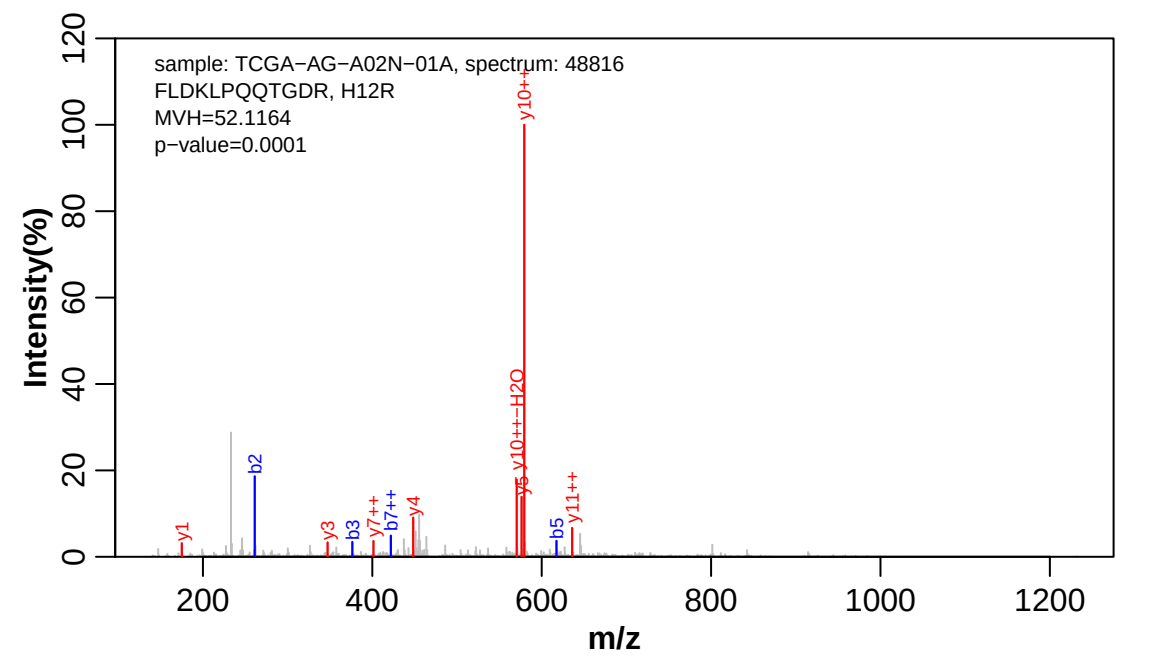

sample: TCGA−AG−A02N−01A, spectrum: 116293
EEPVSSGPEEAAGK, V12A
MVH=47.1497
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3−H2O
y4
b4−NH3
b4−H2O
b5
b6
y7−NH3
y7
y8
y9
y10
b10−H2O
b11−H2O
b11
y12
b12

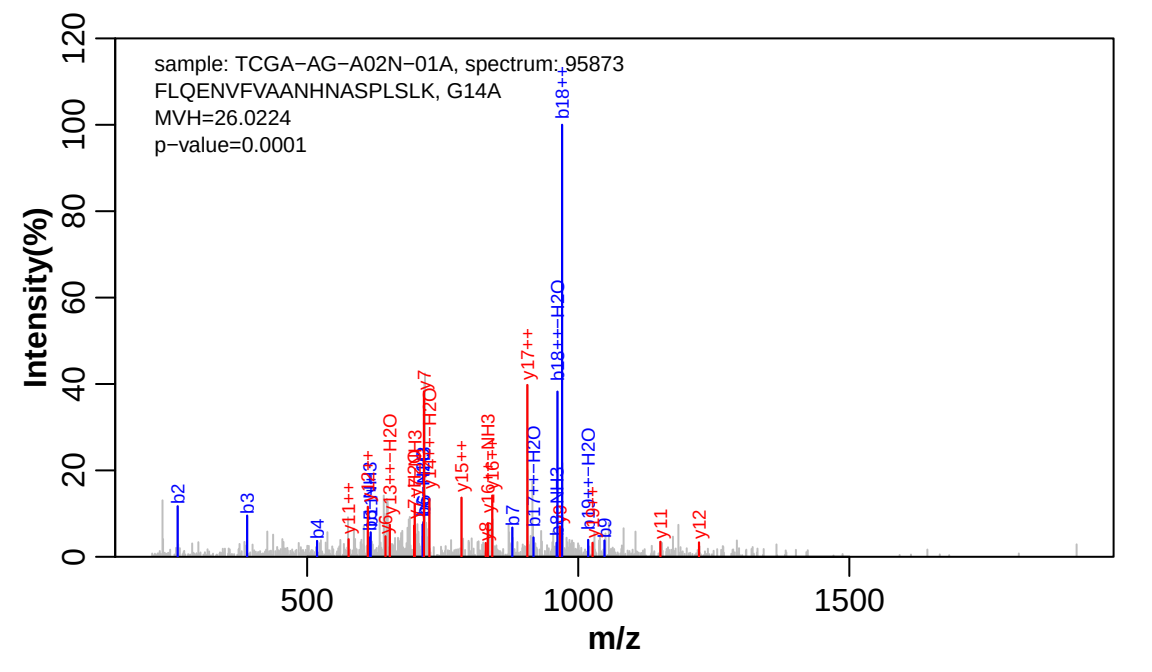

sample: TCGA−AG−A02N−01A, spectrum: 5521
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=23.4436
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b5−H2O
b6−H2O
y7
y9
b10−H2O
y11
y21++
y23++−NH3
y24++
y25++
y26++
y15

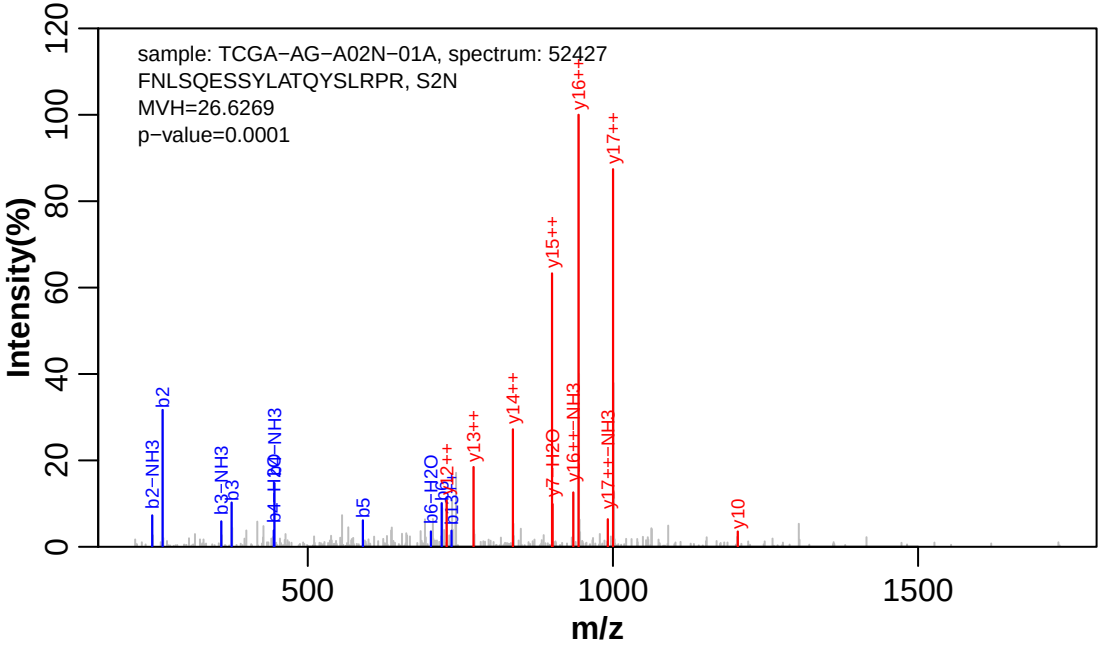

sample: TCGA−AG−A02N−01A, spectrum: 111844
EQPGSPEWLQLDK, Q13K
MVH=32.4524
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2−H2O
b2
y5
b7−H2O
y6
b8−H2O
y8
y9
y11

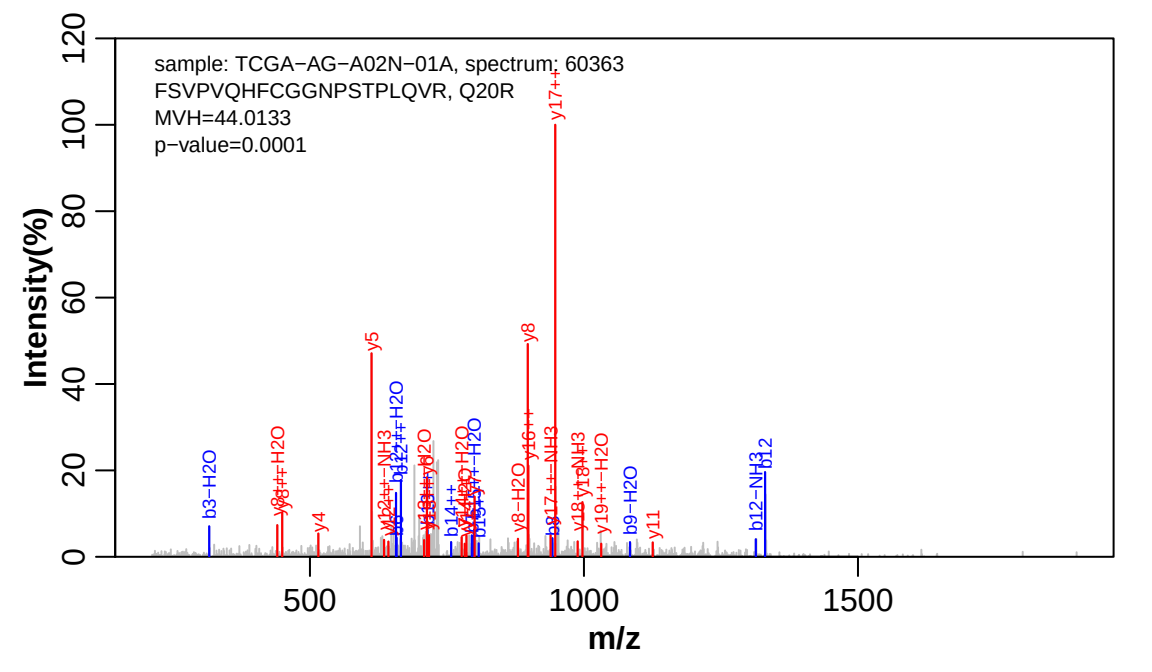

sample: TCGA−AG−A02N−01A, spectrum: 121912
FFGSLPDSWAR, S11R
MVH=42.3570
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

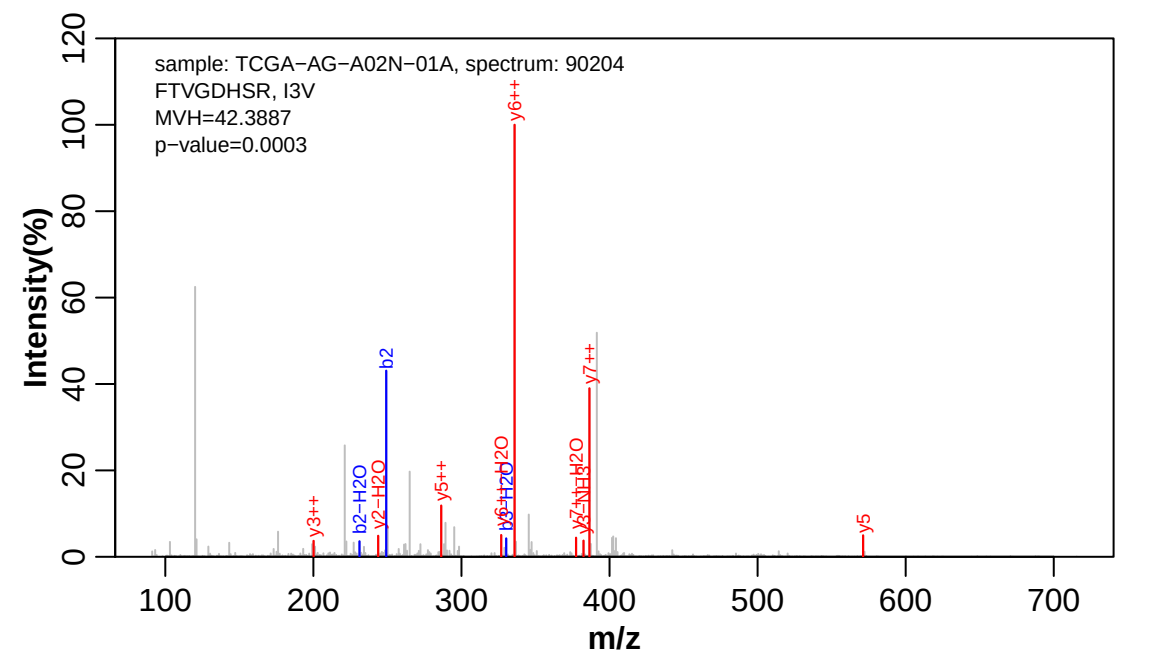

sample: TCGA−AG−A02N−01A, spectrum: 122745
FGQDLLSPLLSVR, K13R
MVH=52.1157
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

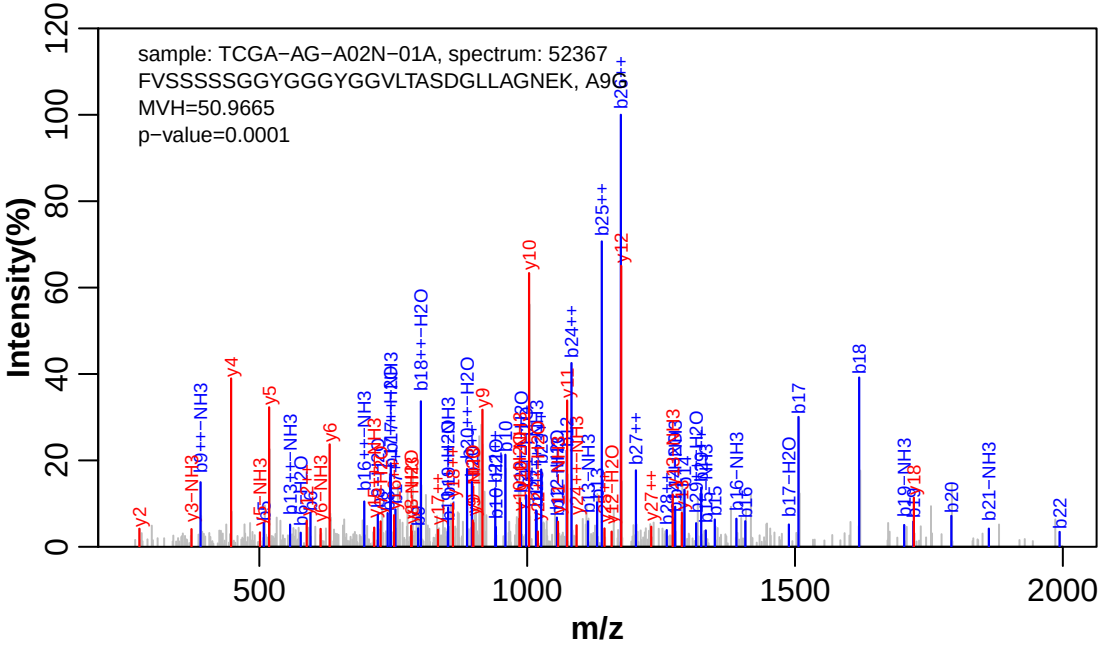

sample: TCGA−AG−A02N−01A, spectrum: 48816
FLDKLPQQTGDR, H12R
MVH=52.1164
p−value=0.0001
Intensity(%)
m/z
y1
b2
y3
b3
y7++
b7++
y4
y5-y10++-H2O
y10++
b5
y11++

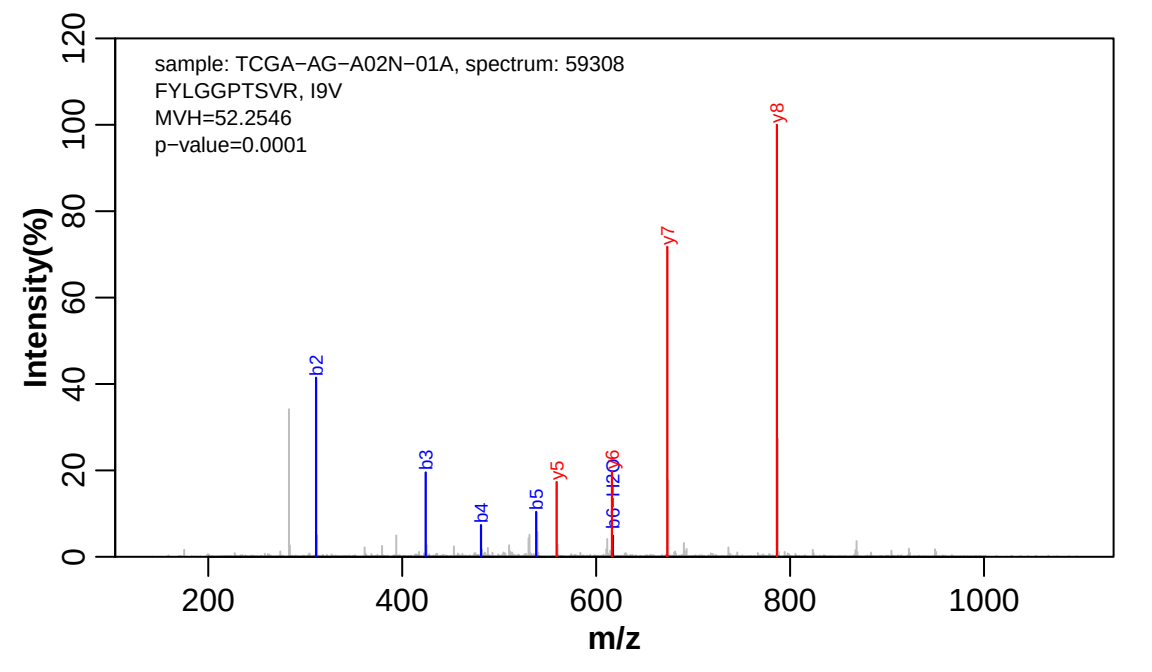

sample: TCGA−AG−A02N−01A, spectrum: 95873
FLQENVFVAANHNASPLSLK, G14A
MVH=26.0224
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b3
b4
y11++
y6
y13++−H2O
y15++
y8
y16++NH3
b7
y17++
b17++−H2O
b18++
b18++−H2O
y11
y12

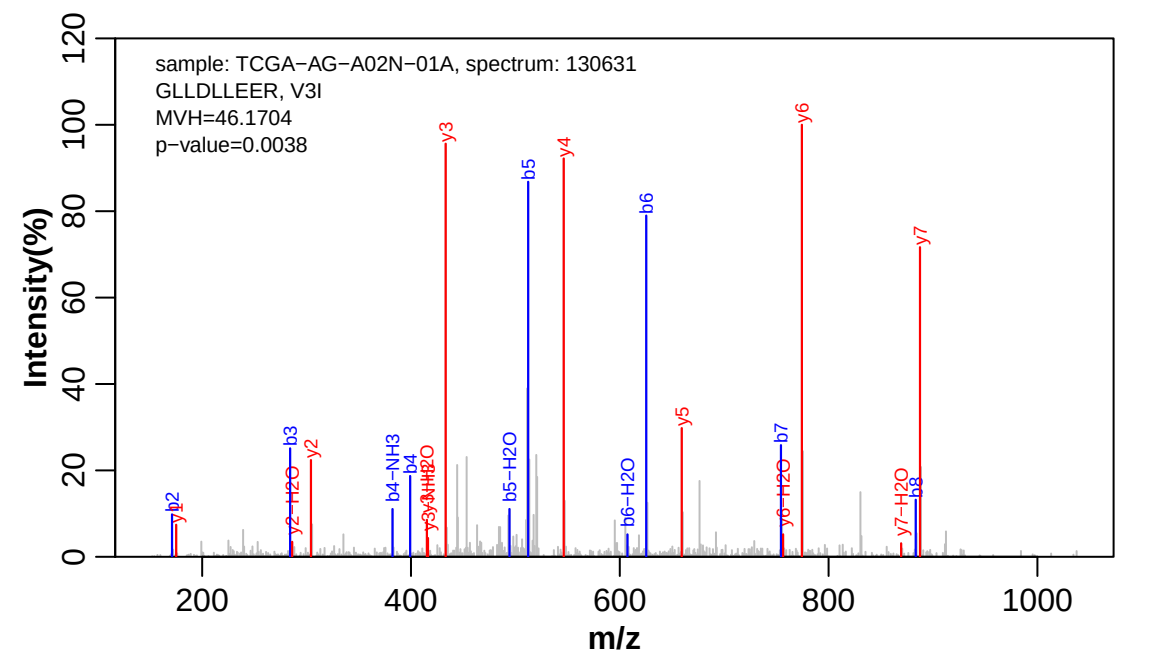

sample: TCGA−AG−A02N−01A, spectrum: 52427
FNLSQESSYLATQYSLRPR, S2N
MVH=26.6269
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
b2−NH3
b3−NH3
b3
b5
b6−H2O
y13++
y14++
y15++
y7−H2O
y16++−NH3
y16++
y17++−NH3
y17++
y10

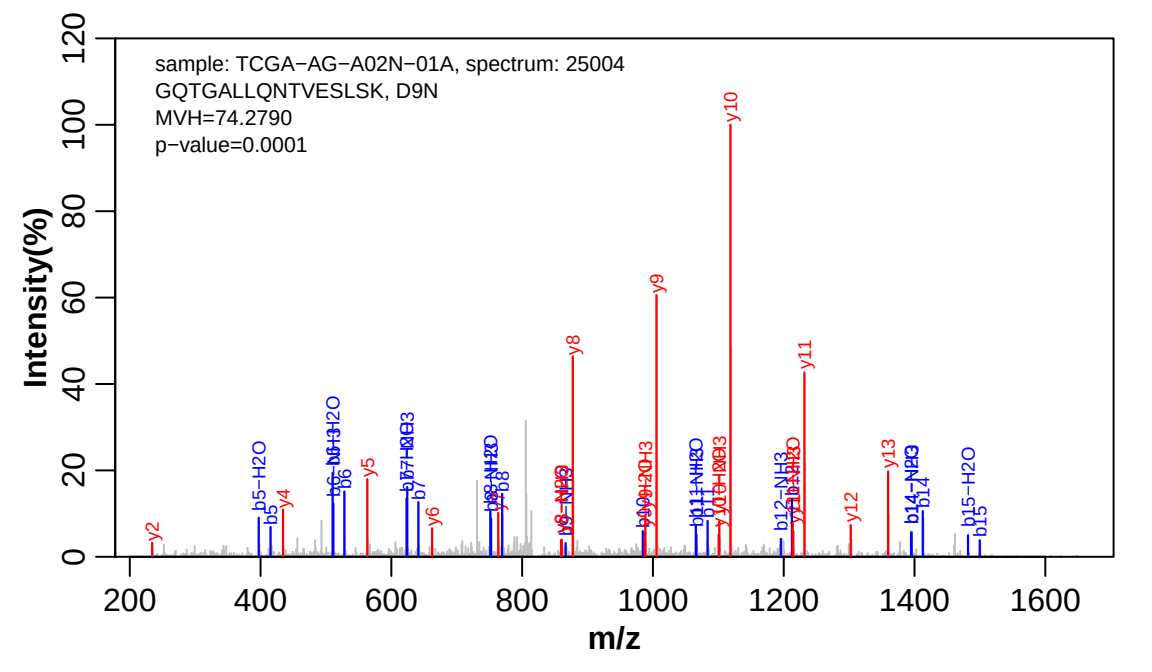

sample: TCGA−AG−A02N−01A, spectrum: 60363
FSVPVQHFCGGNPSTPLQVR, Q20R
MVH=44.0133
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y17++
y8
y5
b3−H2O
y4
y8−H2O
y16++
y17++−NH3
y18++−NH3
y19++−H2O
b9−H2O
y11
b12−NH3
b12

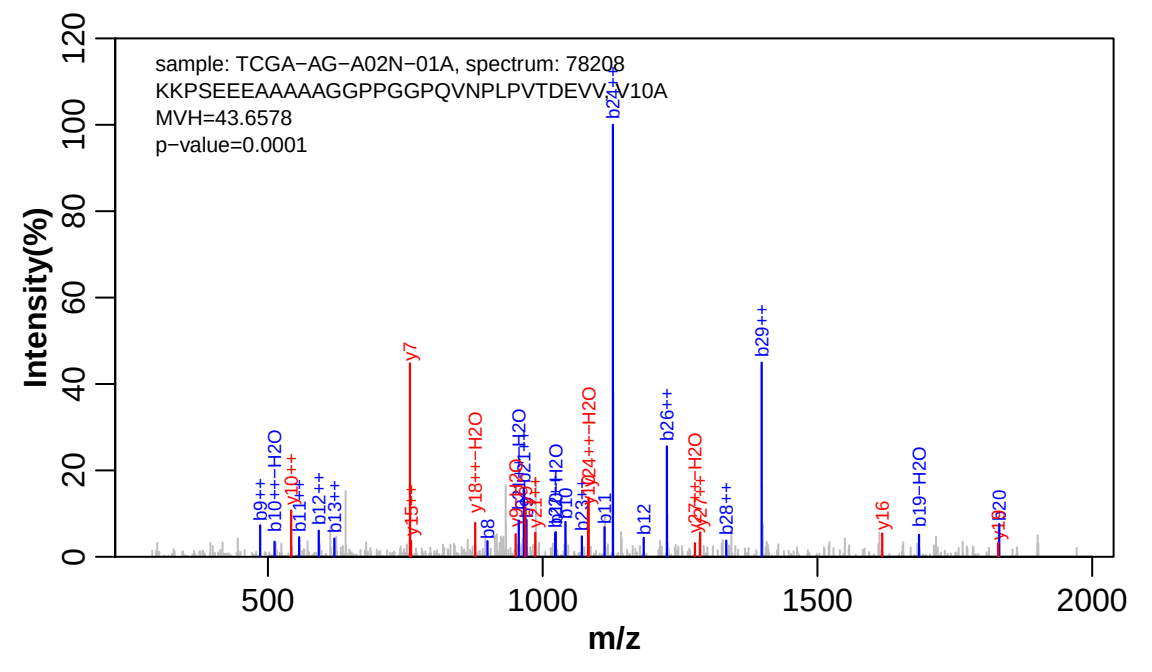

sample: TCGA−AG−A02N−01A, spectrum: 90204
FTVGDHSR, I3V
MVH=42.3887
p−value=0.0003
Intensity(%)
m/z
y6++
b2
y7++
y3++
y5++
y5
b2−H2O
y2−H2O
y6++−H2O
b3−H2O
y7++−H2O
y7++−NH3
0
20
40
60
80
100
120
100
200
300
400
500
600
700

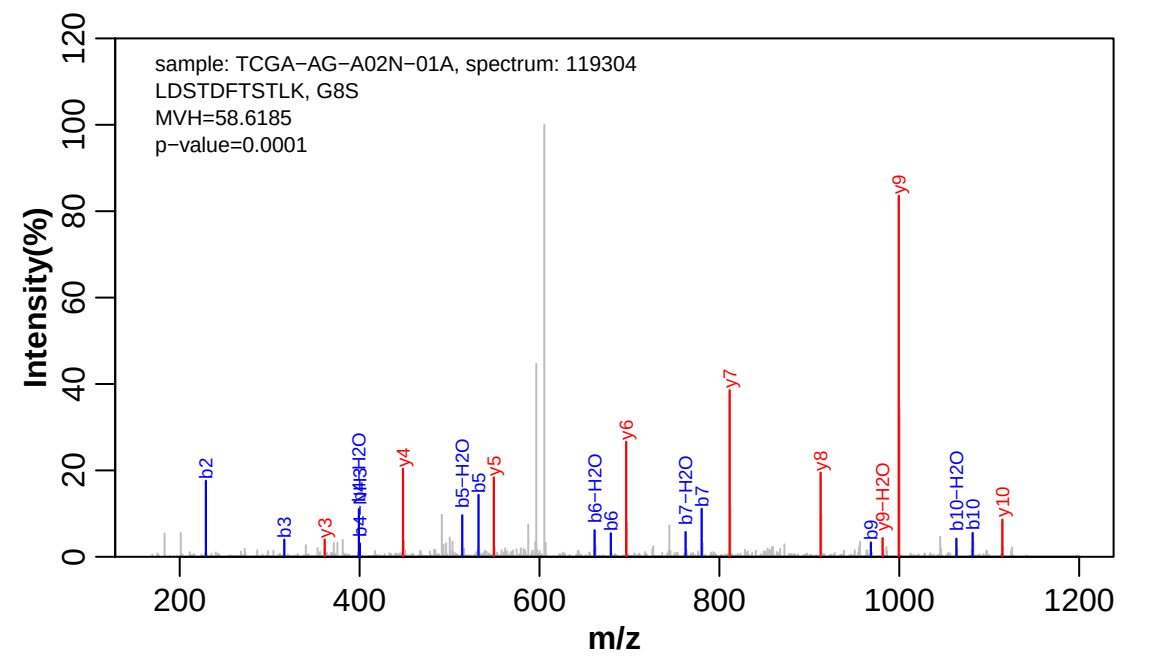

sample: TCGA−AG−A02N−01A, spectrum: 52367
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=50.9665
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3−NH3
b3++−NH3
y4
y5−NH3
y5
b13++−NH3
y6
y6−NH3
b16++−NH3
b18++−H2O
y10
b25++
y12
b24++
y11
b18
b17
b17−H2O
b16−NH3
b21−NH3
b22
b20
b19−NH3
y18

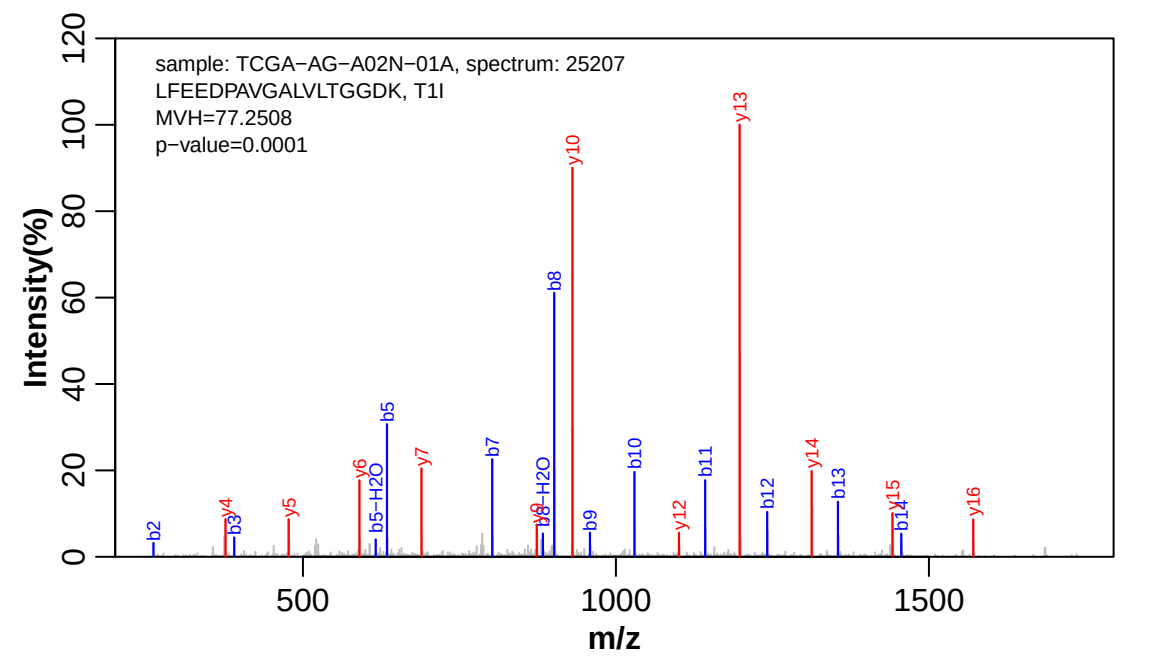

sample: TCGA−AG−A02N−01A, spectrum: 59308
FYLGGPTSVR, I9V
MVH=52.2546
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y7
y8

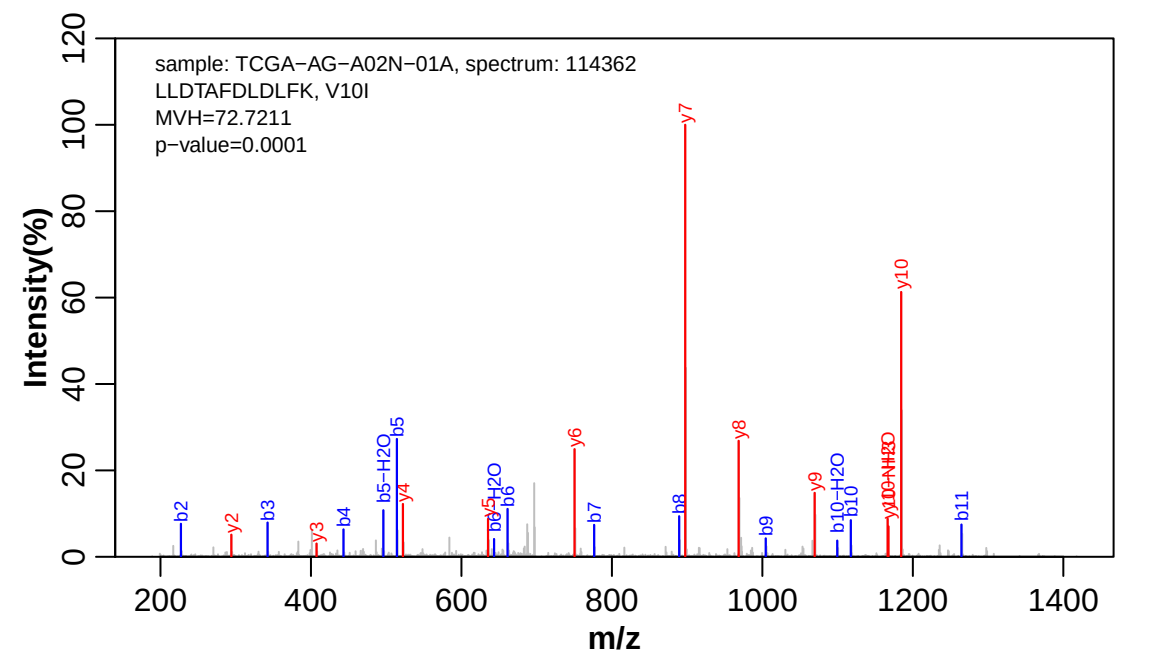

sample: TCGA−AG−A02N−01A, spectrum: 130631
GLLDLLEER, V3I
MVH=46.1704
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y3
y4
b5
y6
b6
y7
y5
b7
b3
y2
b4−NH3
b4
b5−H2O
b6−H2O
y6−H2O
y7−H2O
b8
b2
y1

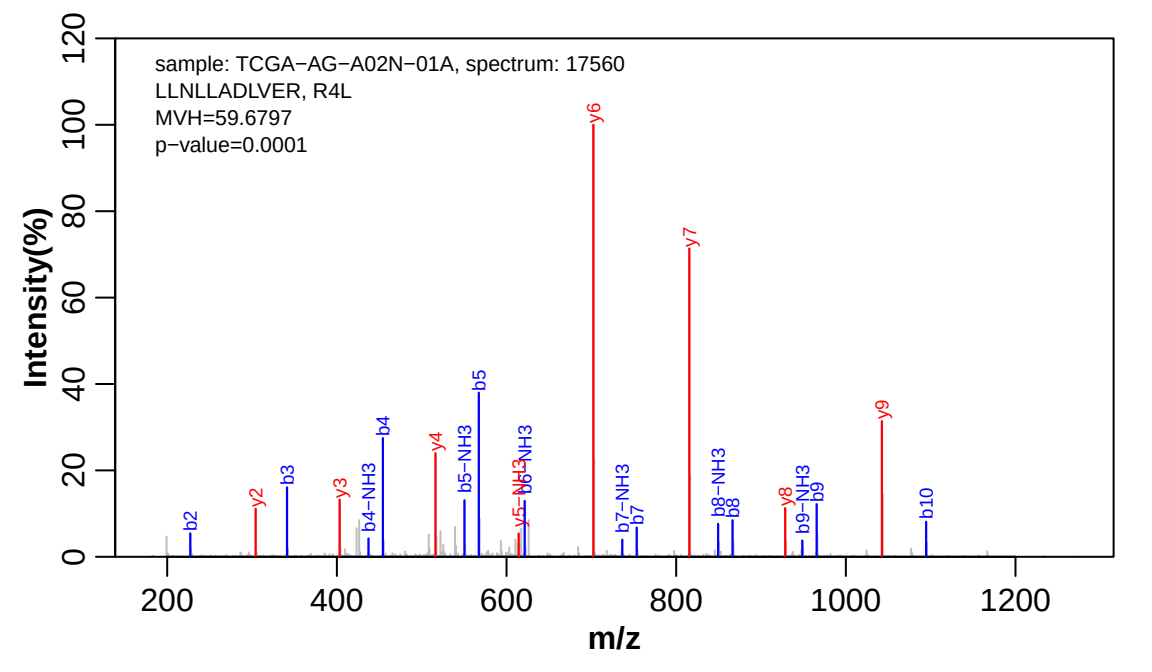

sample: TCGA−AG−A02N−01A, spectrum: 25004
GQTGALLQNTVESLSK, D9N
MVH=74.2790
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y5
y6
y4
y2
y12
y13
b5−H2O
b15−H2O

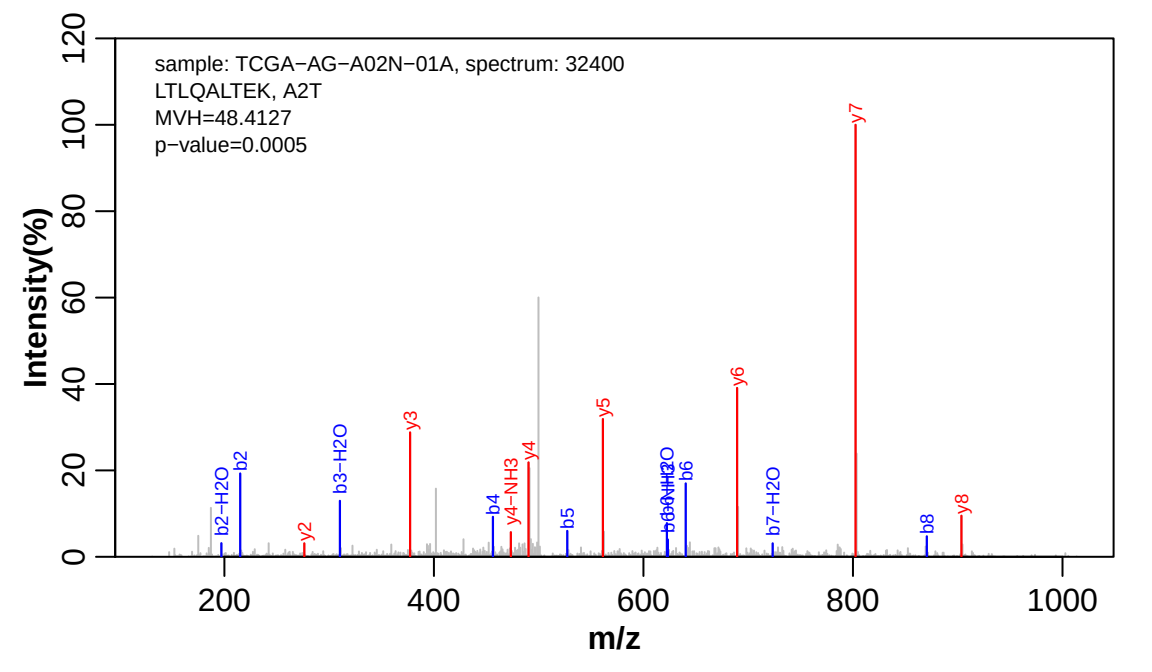

sample: TCGA−AG−A02N−01A, spectrum: 78208
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=43.6578
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++
b10++−H2O
y11++
b11++
b12++
b13++
y15++
y7
y18++−H2O
b8
y21++−H2O
b21++
b10++H2O
b23++
y24++−H2O
b11
b12
b26++
y27++−H2O
b28++
b29++
y16
b19−H2O
y18++

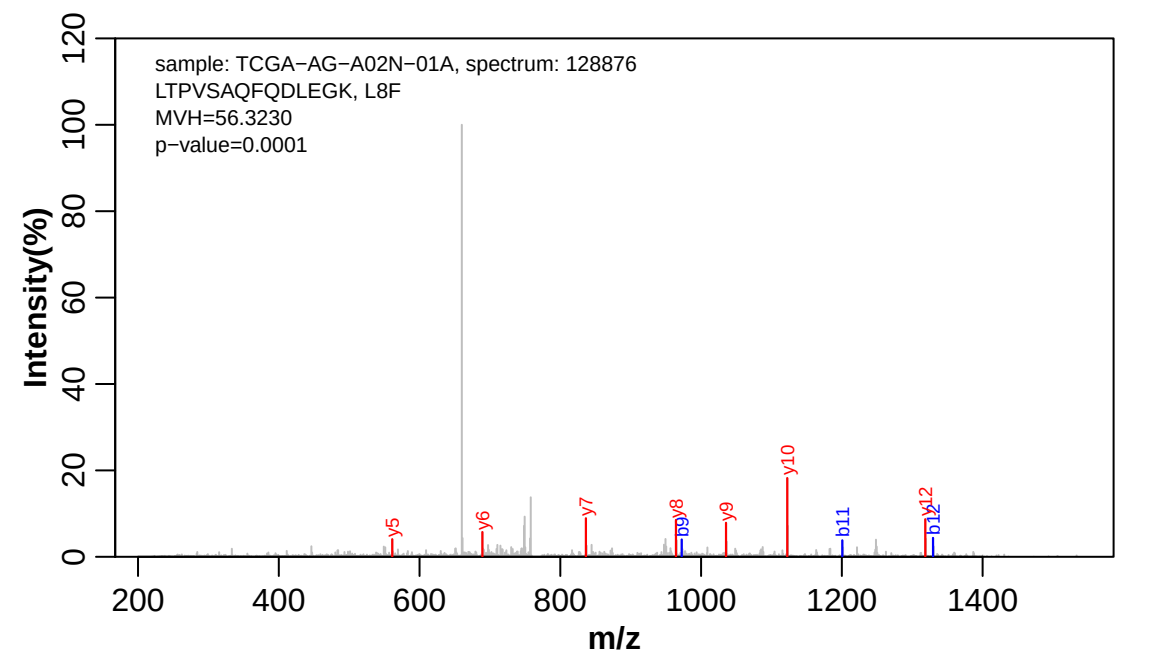

sample: TCGA−AG−A02N−01A, spectrum: 119304
LDSTDFTSTLK, G8S
MVH=58.6185
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4−NH3
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
b9
y9−H2O
y9
b10−H2O
b10
y10

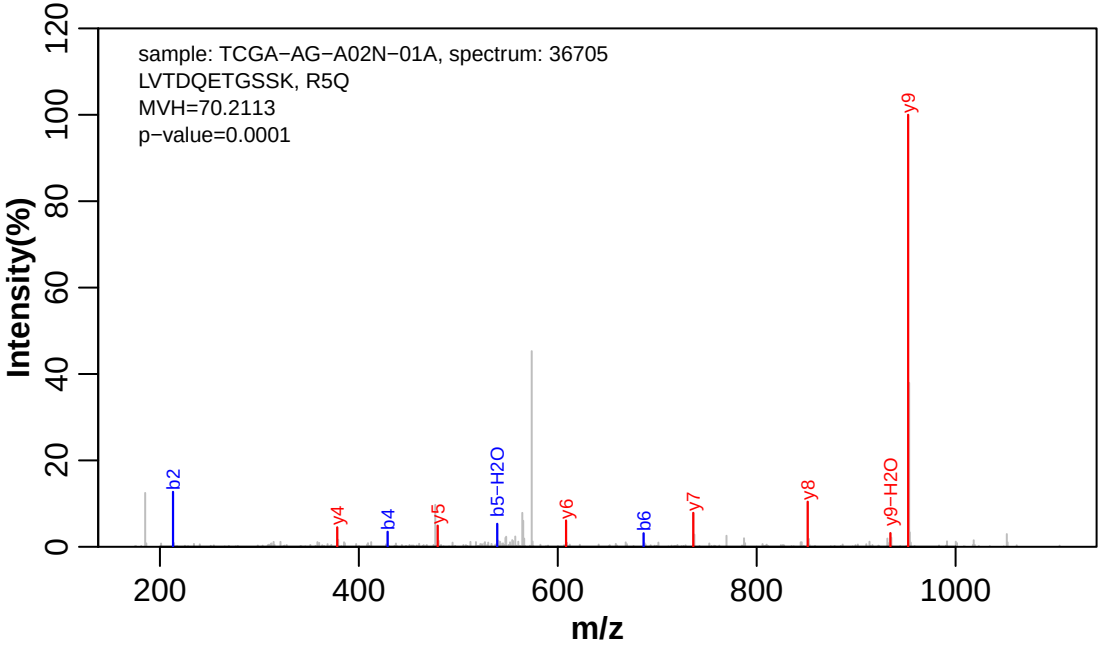

sample: TCGA−AG−A02N−01A, spectrum: 25207
LFEEDPAVGALVLTGGDK, T1I
MVH=77.2508
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
y4
b3
y5
y6
b5−H2O
b5
y7
b7
y8
b8−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y15
b14
y16

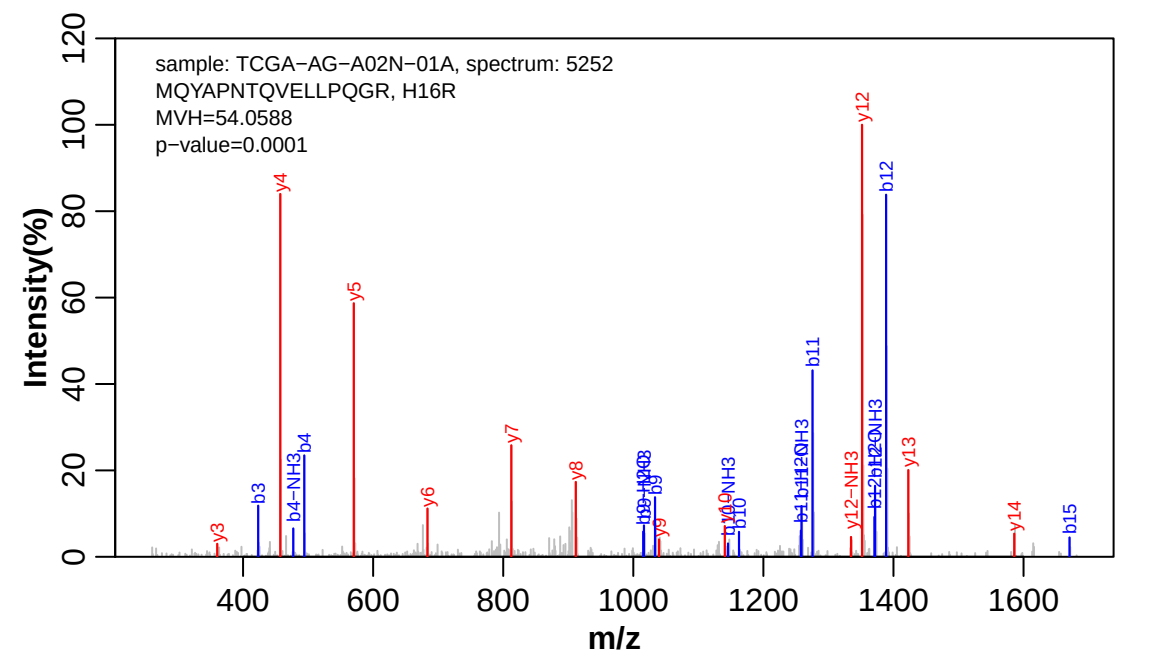

sample: TCGA−AG−A02N−01A, spectrum: 114362
LLDTAFDLDLFK, V10I
MVH=72.7211
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
b3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y5
y6
b7
b8
y7
y8
b9
y9
b10−H2O
b10
y10−NH2O
y10
b11

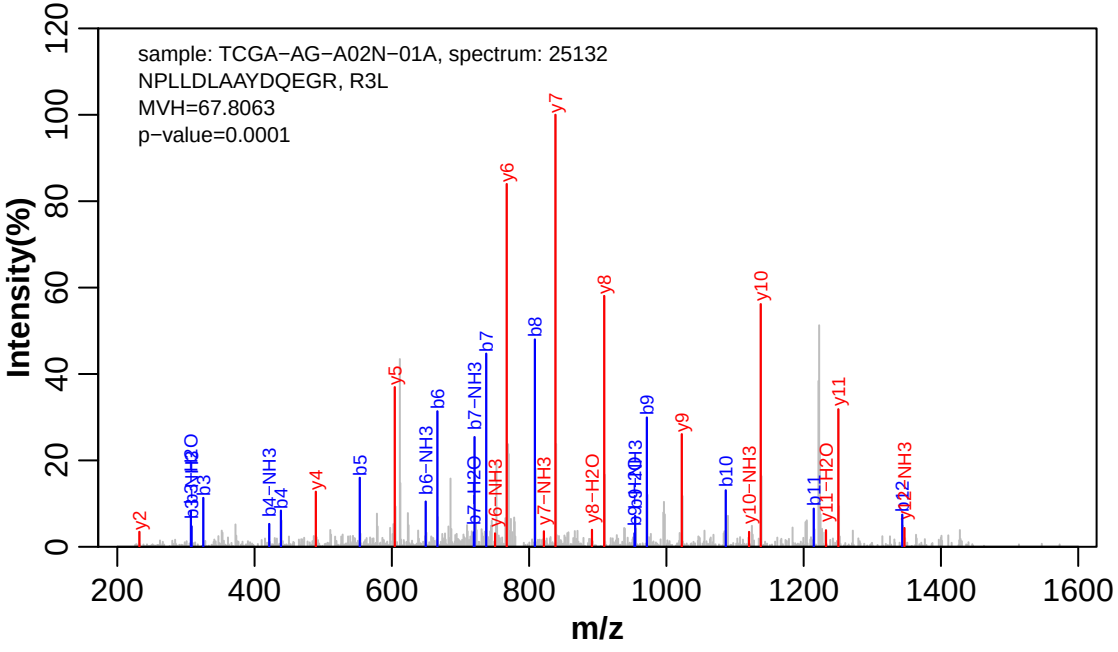

sample: TCGA−AG−A02N−01A, spectrum: 17560
LLNLLADLVER, R4L
MVH=59.6797
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y6
y7
y9
y4
y2
y3
b5
b4
b3
b2
b5−NH3
b4−NH3
y5−NH3
b6−NH3
b7−NH3
b7
b8−NH3
b8
y8
b9−NH3
b9
b10

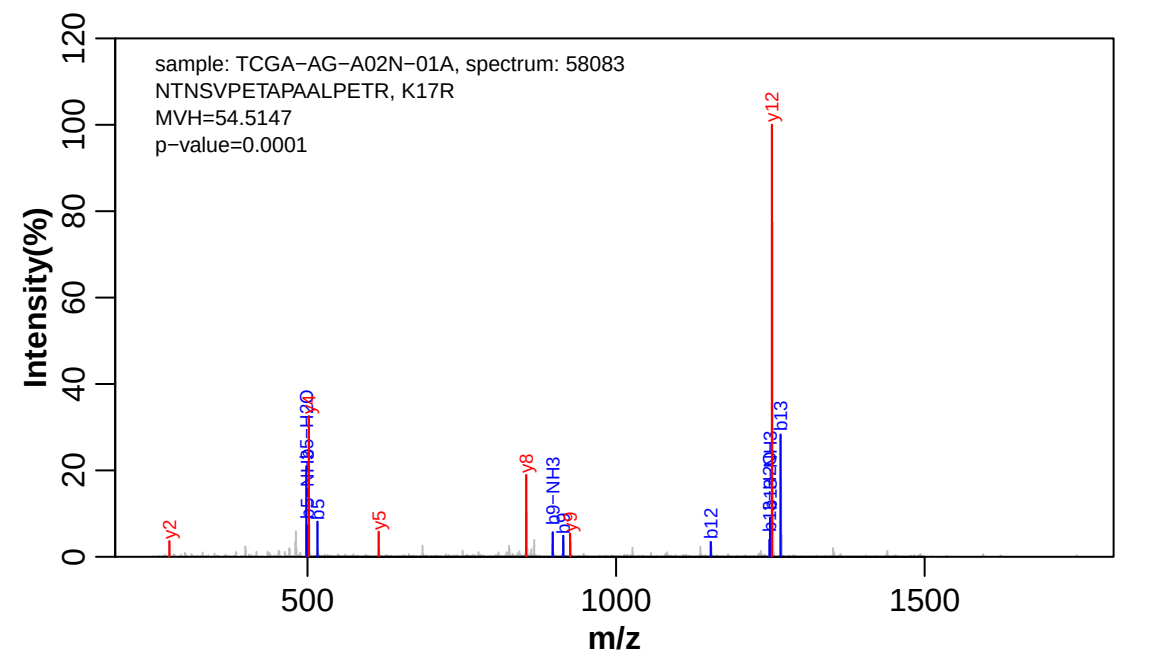

sample: TCGA−AG−A02N−01A, spectrum: 32400
LTLQALTEK, A2T
MVH=48.4127
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
b2−H2O
b2
y2
b3−H2O
y3
b4
y4−NH3
y4
b5
y5
b6
y6
b7−H2O
b8
y7
y8

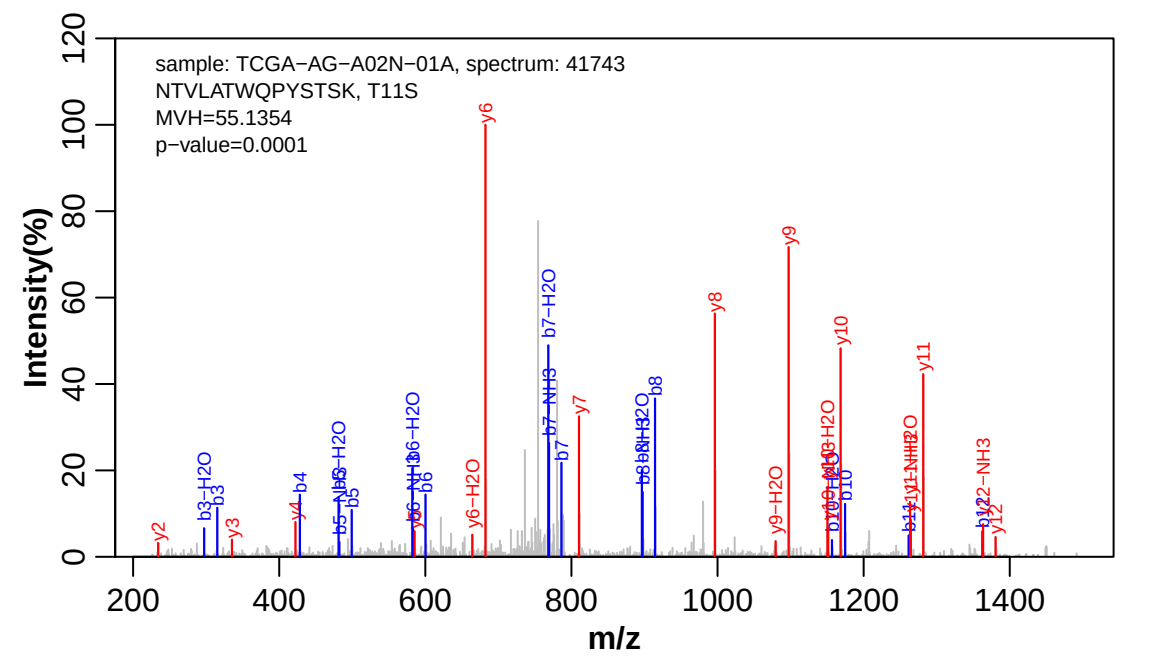

sample: TCGA−AG−A02N−01A, spectrum: 128876
LTPVSAQFQDLEGK, L8F
MVH=56.3230
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
y5
y6
y7
b9
y8
y9
y10
b11
y12
b12

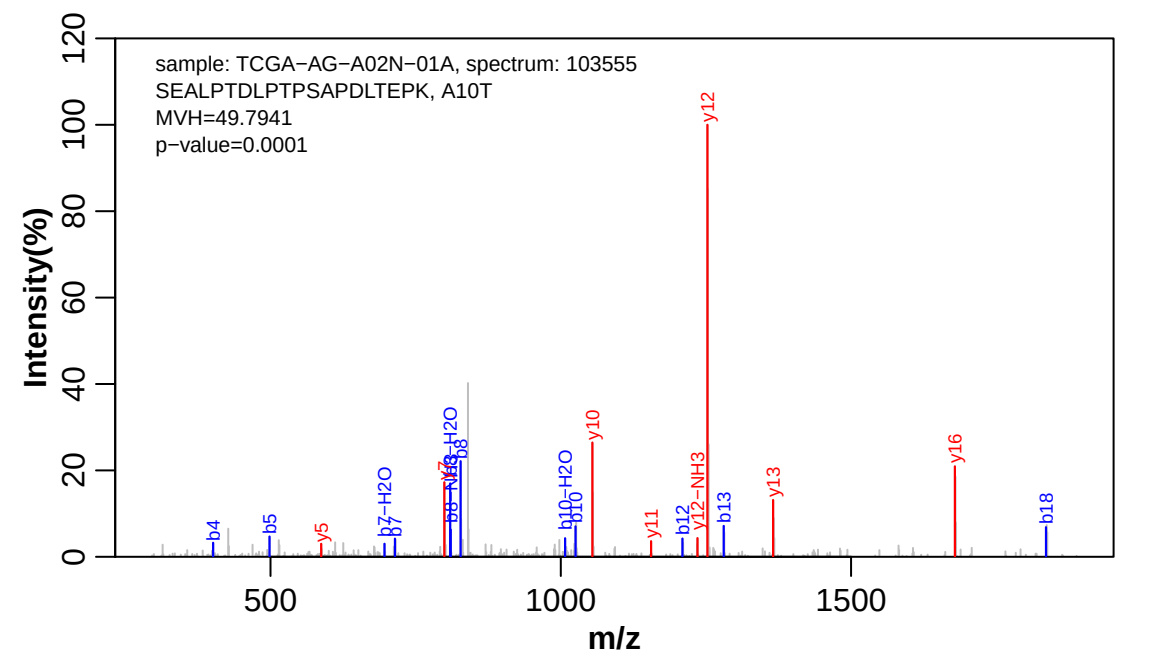

sample: TCGA−AG−A02N−01A, spectrum: 36705
LVTDQETGSSK, R5Q
MVH=70.2113
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y4
b4
y5
b5−H2O
y6
b6
y7
y8
y9−H2O
y9

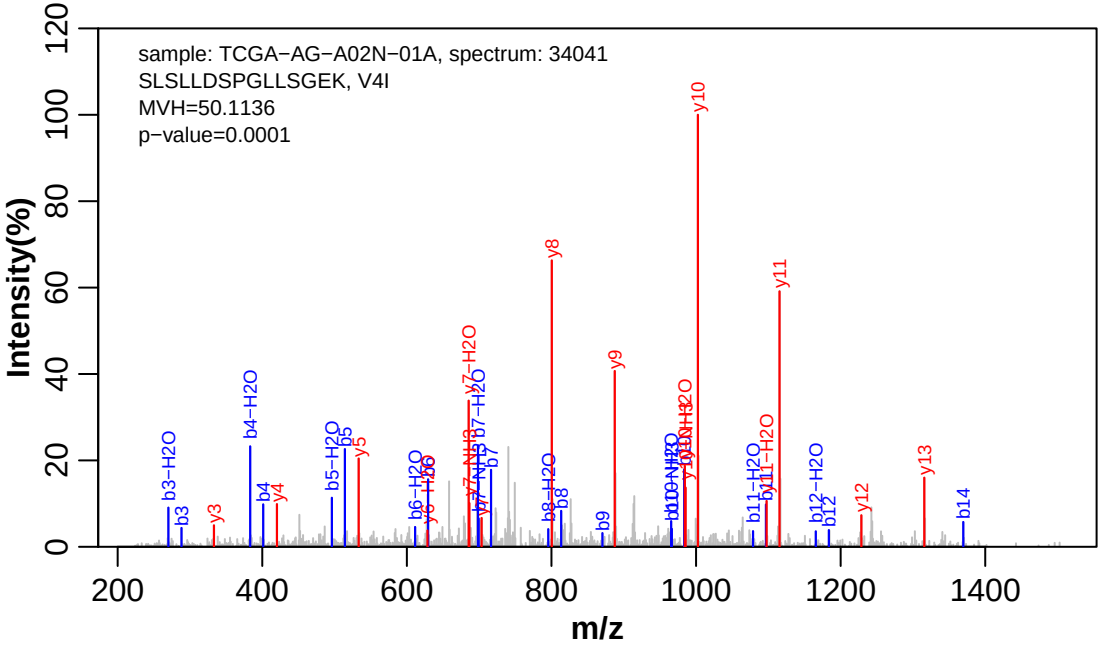

sample: TCGA−AG−A02N−01A, spectrum: 5252
MQYAPNTQVELLPQGR, H16R
MVH=54.0588
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
y3
b3
b4−NH3
b4
y4
y5
y6
y7
y8
y9
b10
y10−NH3
b11
y12−NH3
y12
b12
y13
y14
b15

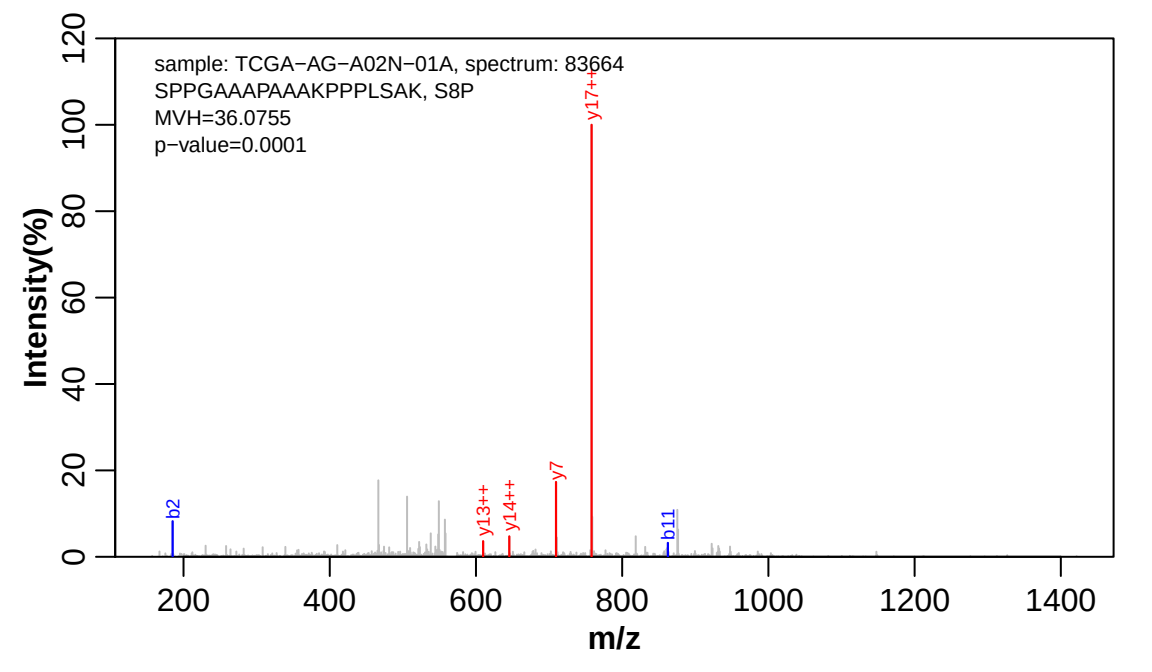

sample: TCGA−AG−A02N−01A, spectrum: 25132
NPLLDLAAYDQEGR, R3L
MVH=67.8063
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3−H2O
b3−NH3
b3
b4−NH3
b4
y4
b5
y5
b6−NH3
b6
b7−H2O
b7−NH3
b7
y6−NH3
y6
b8
y7−NH3
y7
y8−H2O
y8
b9−H2O
b9−NH3
b9
y9
b10
y10−NH3
y10
b11
y11−H2O
y11
y12−NH3
y12

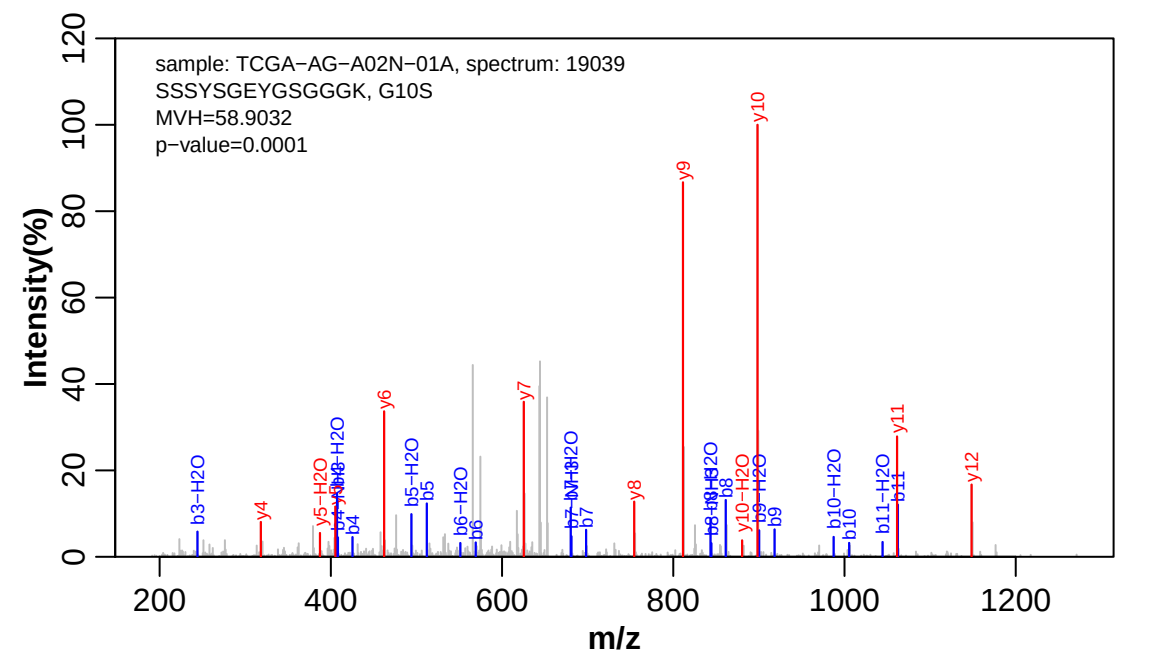

sample: TCGA−AG−A02N−01A, spectrum: 58083
NTNSVPETAPAALPETR, K17R
MVH=54.5147
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
y2
b13
b12
b9−NH3
b5

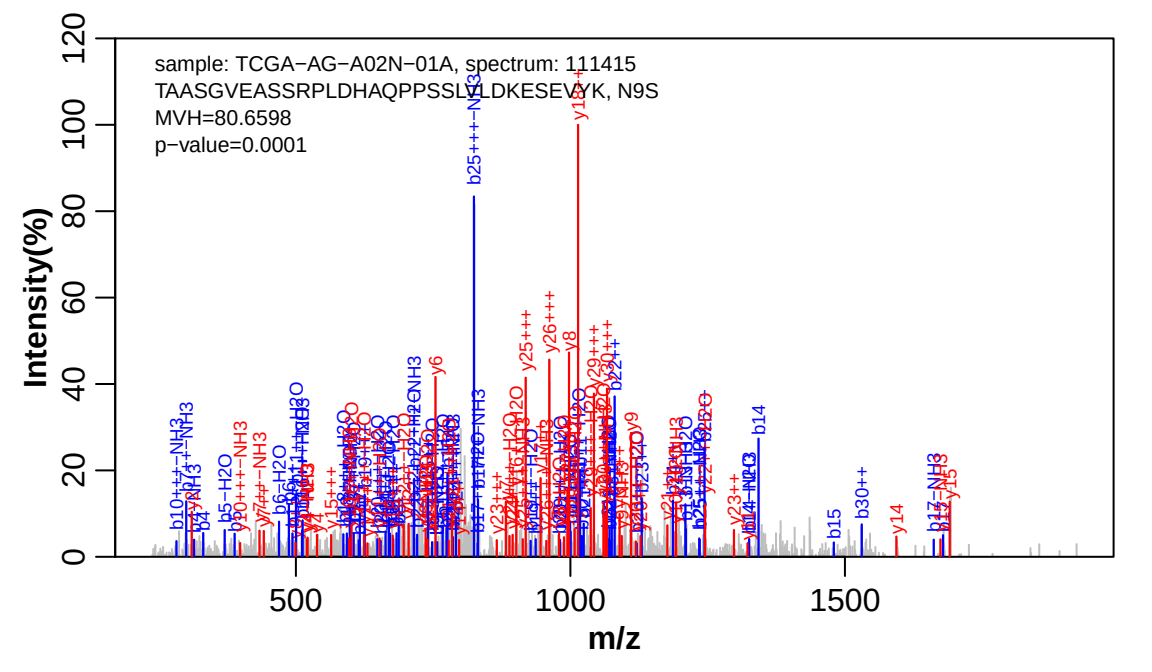

sample: TCGA−AG−A02N−01A, spectrum: 41743
NTVLATWQPYSTSK, T11S
MVH=55.1354
p−value=0.0001
Intensity(%)
m/z
y6
y9
y8
y10
y11
b7−H2O
b7−NH3
b7
b8
y7
y6−H2O
y9−H2O
b3−H2O
b3
y3
y2
y4
b4
b5
b6
b10
y12
b12−NH3

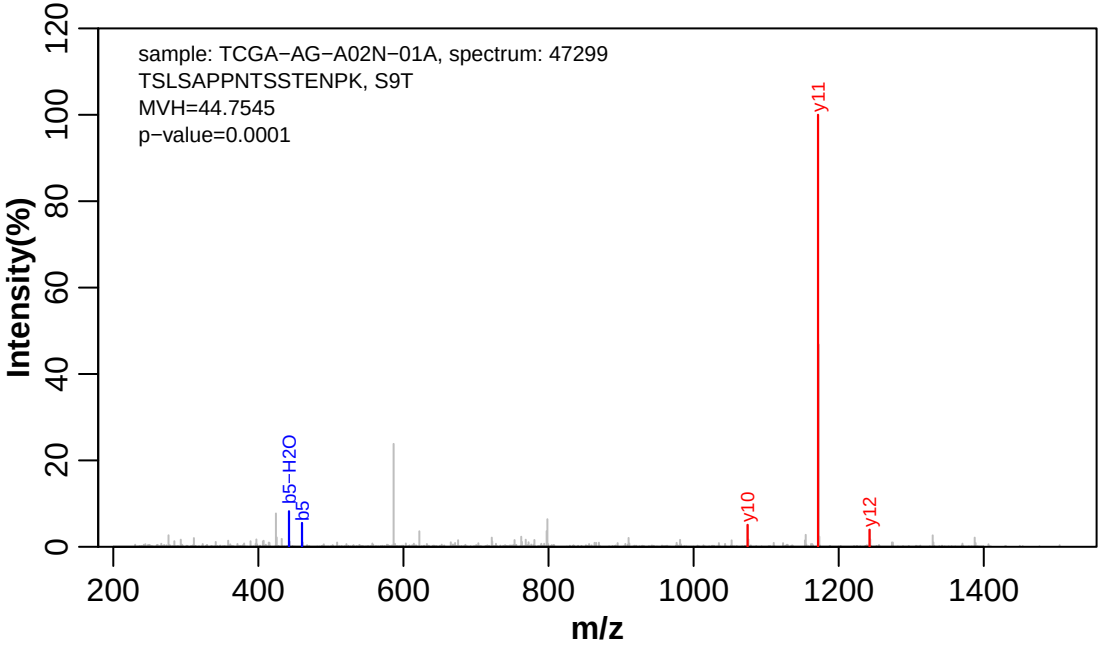

sample: TCGA−AG−A02N−01A, spectrum: 103555
SEALPTDLPTPSAPDLTEPK, A10T
MVH=49.7941
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
b5
y5
b7−H2O
b7
y8
b8−NH3
b8
b8−H2O
y10
b10−H2O
b10
y11
b12
y12−NH3
y12
b13
y13
y16
b18

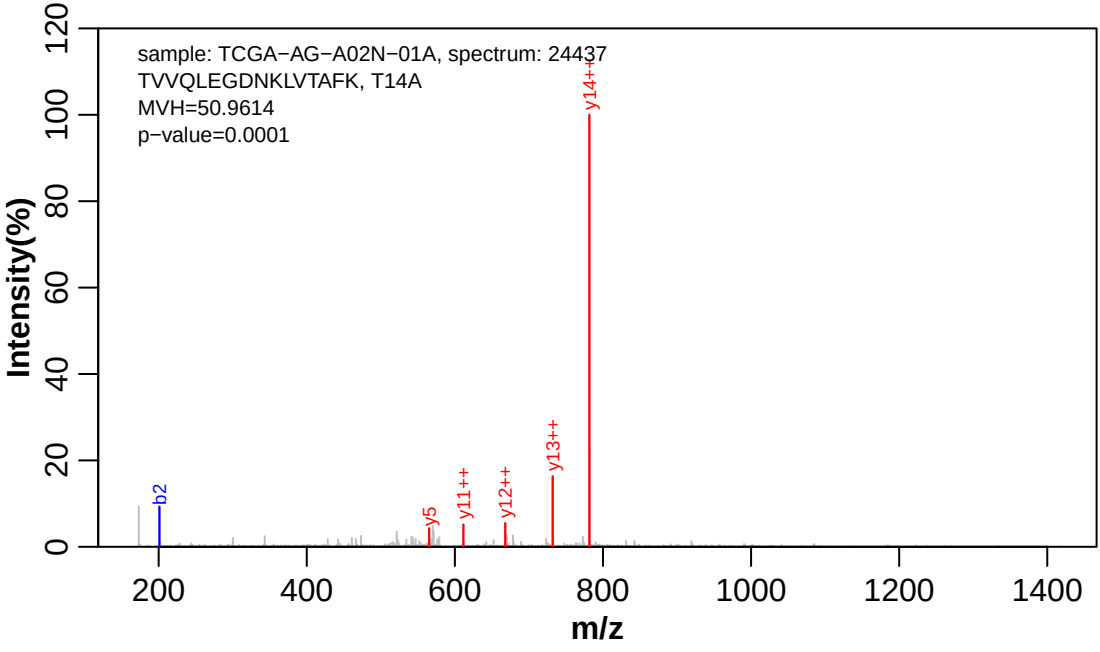

sample: TCGA−AG−A02N−01A, spectrum: 34041
SLSLLDSPGLLSGEK, V4I
MVH=50.1136
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
y3
b4−H2O
b4
y4
b5−H2O
b5
y5
b6−H2O
b7−H2O
b7
y7−H2O
b8−H2O
b8
y8
b9
y9
b11−H2O
y10
y11
b12−H2O
b12
y12
y13
b14

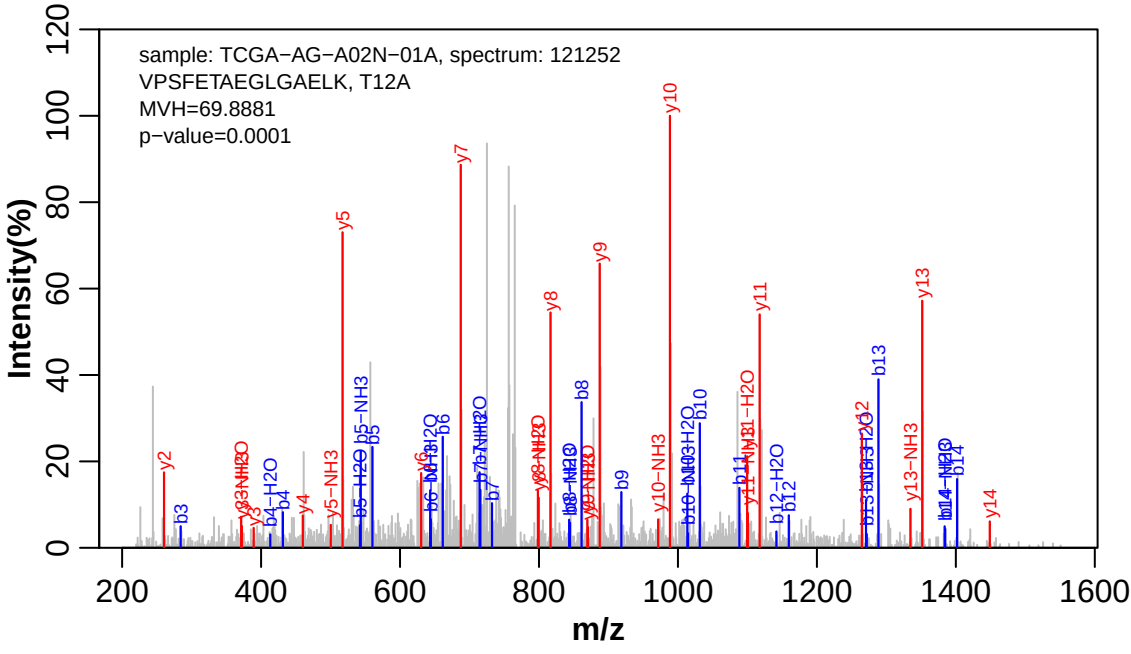

sample: TCGA−AG−A02N−01A, spectrum: 83664
SPPGAAAPAAAKPPPLSAK, S8P
MVH=36.0755
p−value=0.0001
y17++
y7
y13++
y14++
b2
b11
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

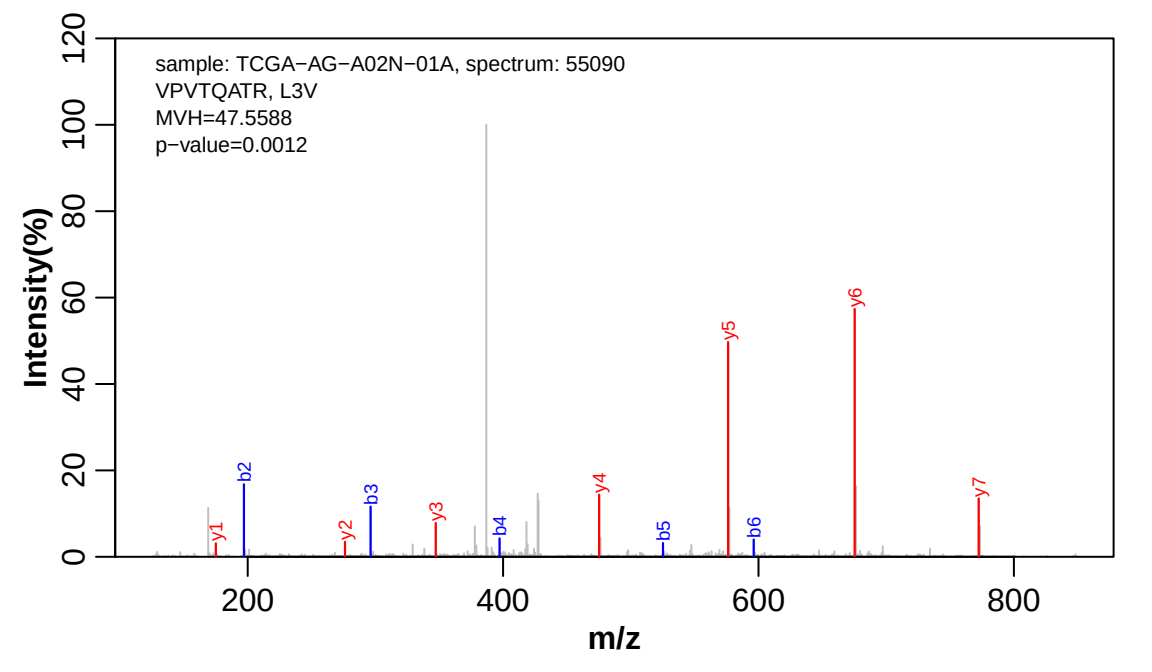

sample: TCGA−AG−A02N−01A, spectrum: 19039
SSSYSGEYGSGGGK, G10S
MVH=58.9032
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b3−H2O
y4
y5−H2O
b4
y6
b5−H2O
b5
b6−H2O
b6
y7
b7
y8
y9
b8
y10−H2O
b9
y10
b10−H2O
b10
y11
b11−H2O
b11
y12

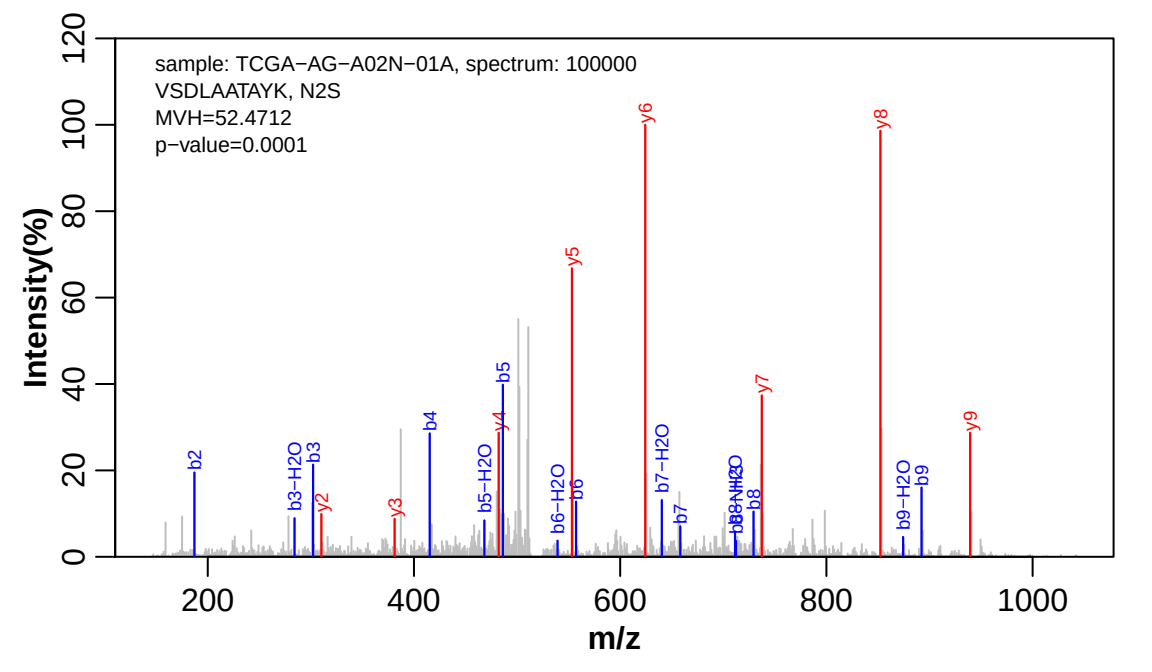

sample: TCGA−AG−A02N−01A, spectrum: 111415
TAASGVEASSRPLDHAQPPSSLELDKESEVYK, N9S
MVH=80.6598
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b25+++−NH3
y15++
y26+++
y25+++
y8
y6
b14
b30++
y14
b15
y15
b17−NH3

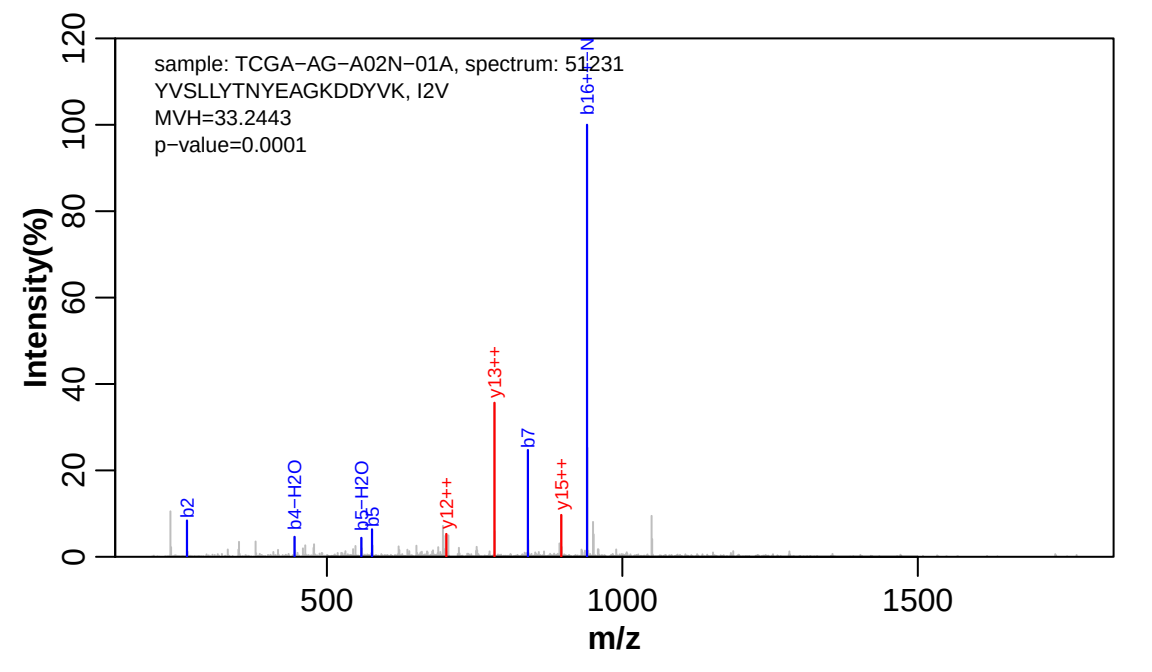

sample: TCGA−AG−A02N−01A, spectrum: 47299
TSLSAPPNTSSTENPK, S9T
MVH=44.7545
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
b5
y10
y11
y12

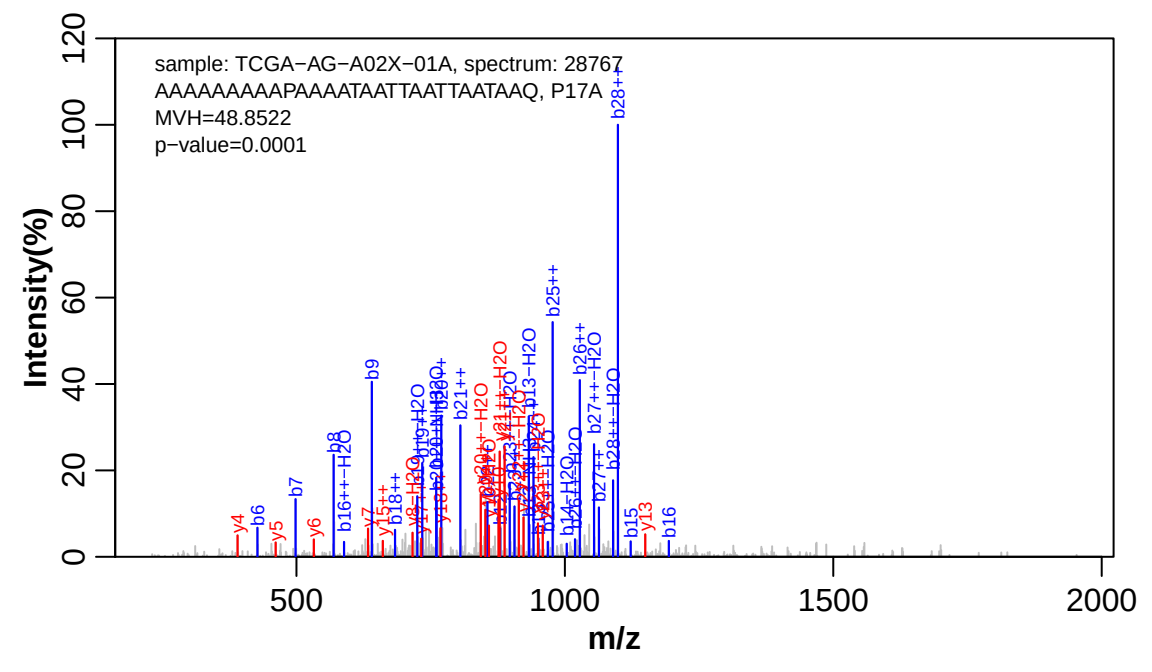

sample: TCGA−AG−A02N−01A, spectrum: 24437
TVVQLEGDNKLVTAFK, T14A
MVH=50.9614
p−value=0.0001
b2
y5
y11++
y12++
y13++
y14++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

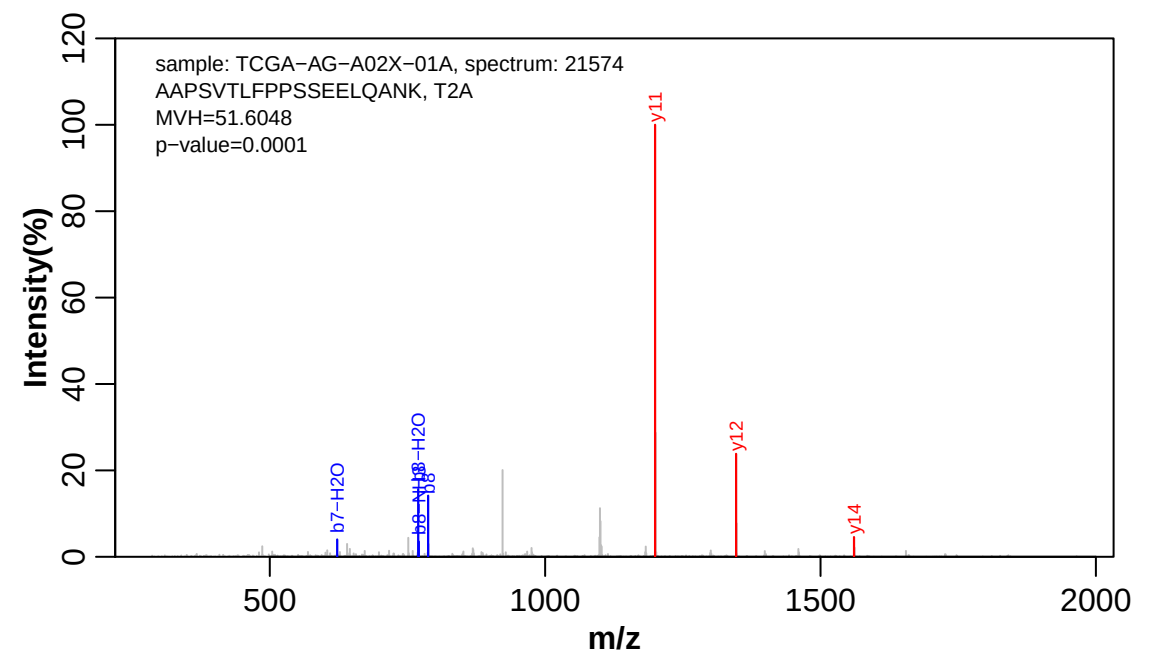

sample: TCGA−AG−A02N−01A, spectrum: 121252
VPSFETAEGLGAELK, T12A
MVH=69.8881
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y7
y5
y9
y8
y11
y13
b13
b8
b10
b9
b7
b6
b5
b5−NH3
y2
b3
b4
b4−H2O
y4
y5−NH3
y10−NH3
y13−NH3
y14
b12
b12−H2O

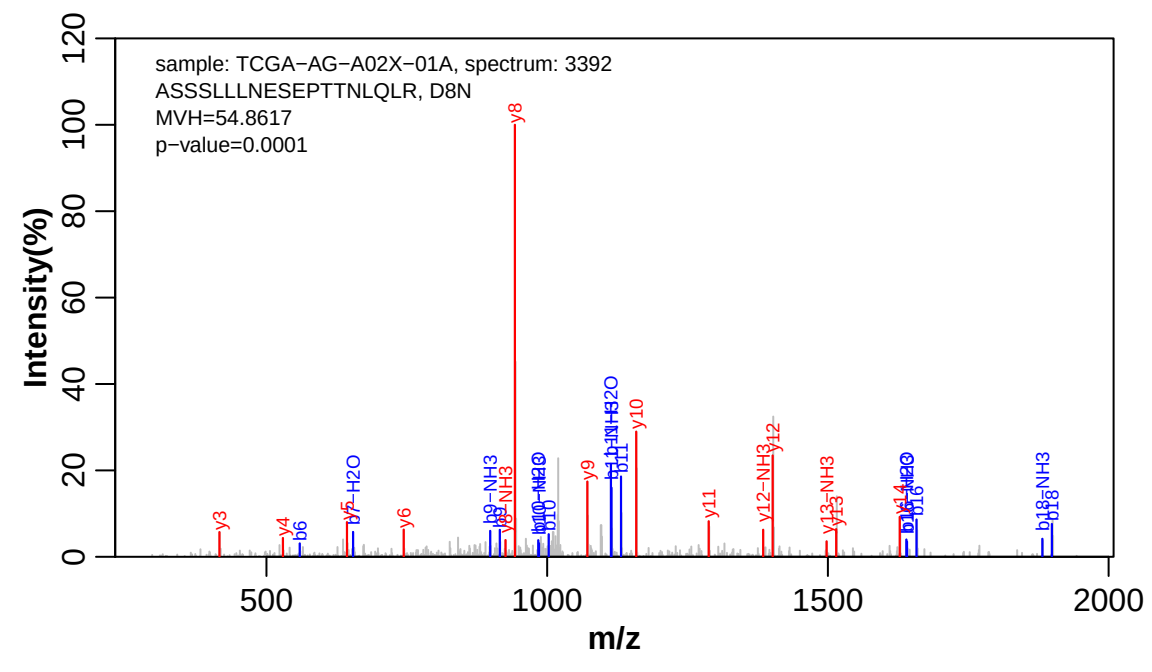

sample: TCGA−AG−A02N−01A, spectrum: 55090
VPVTQATR, L3V
MVH=47.5588
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6
y6
y7

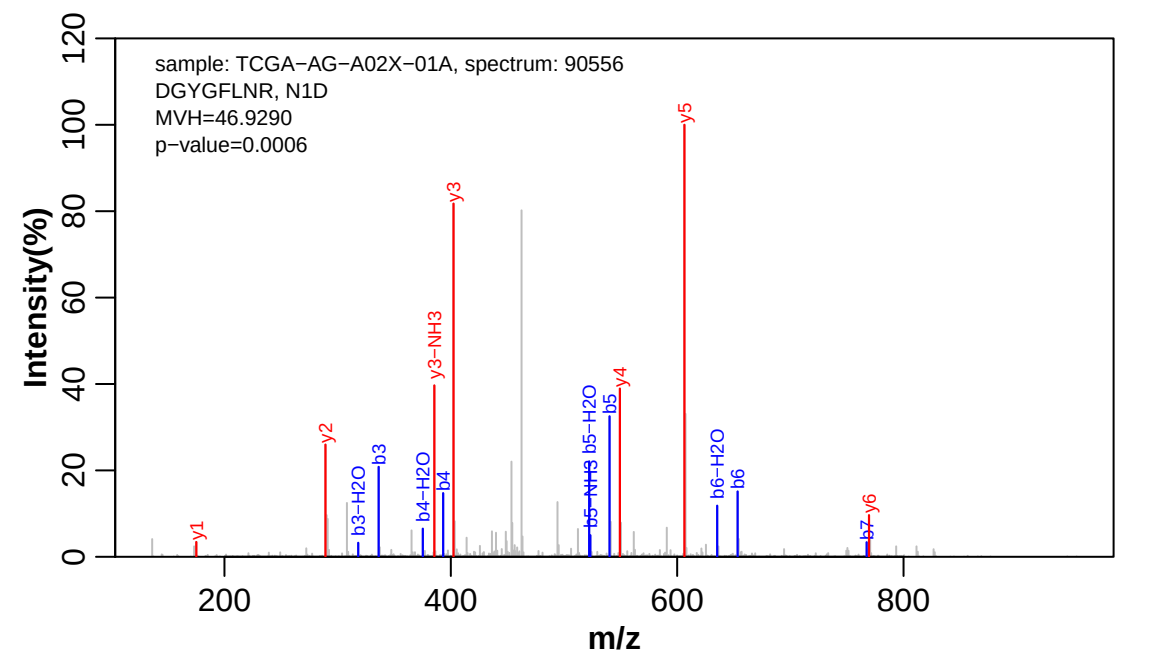

sample: TCGA−AG−A02N−01A, spectrum: 100000
VSDLAATAYK, N2S
MVH=52.4712
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3−H2O
b3
y2
y3
b4
b5−H2O
y4
b5
b6−H2O
y5
b6
b7−H2O
b7
b8
y6
y7
y8
b9−H2O
b9
y9

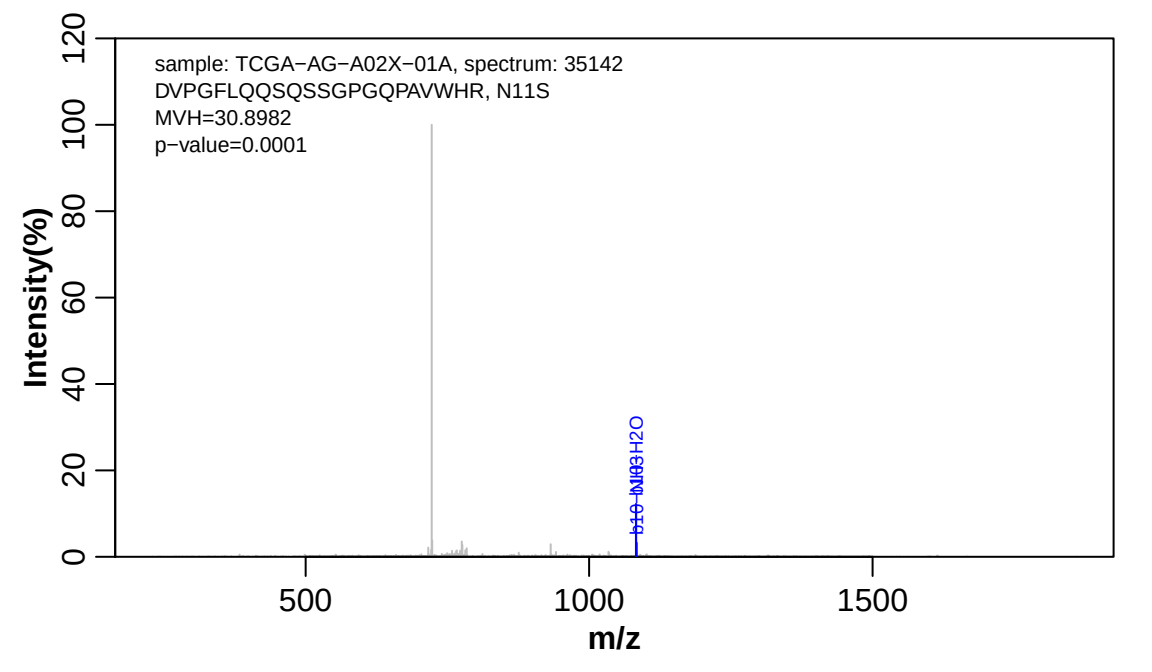

sample: TCGA−AG−A02N−01A, spectrum: 51231
YVSLLYTNYEAGKDDYVK, I2V
MVH=33.2443
p−value=0.0001
b16+−N
y13++
b7
y15++
y12++
b2
b4−H2O
b5−H2O
b5
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

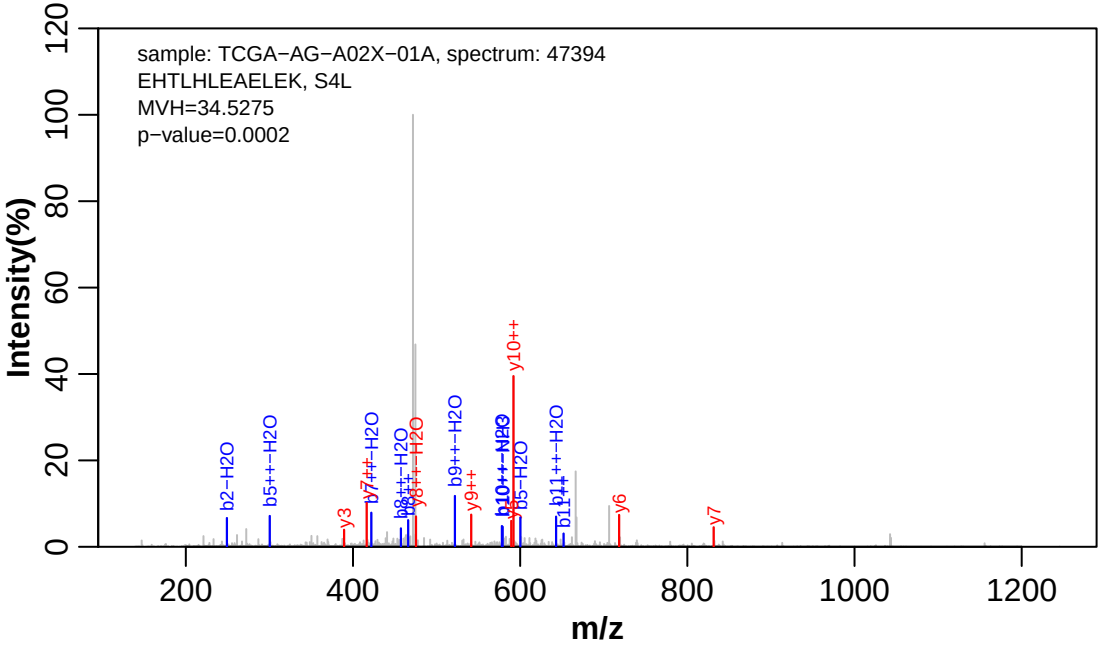

sample: TCGA−AG−A02X−01A, spectrum: 28767
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=48.8522
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b28++
b25++
b9
b21++
b8
b7
y4
b6
y5
y6
b16++−H2O
y7
y15++
b18++
b26++
b27++
b28++−H2O
b15
y13
b16

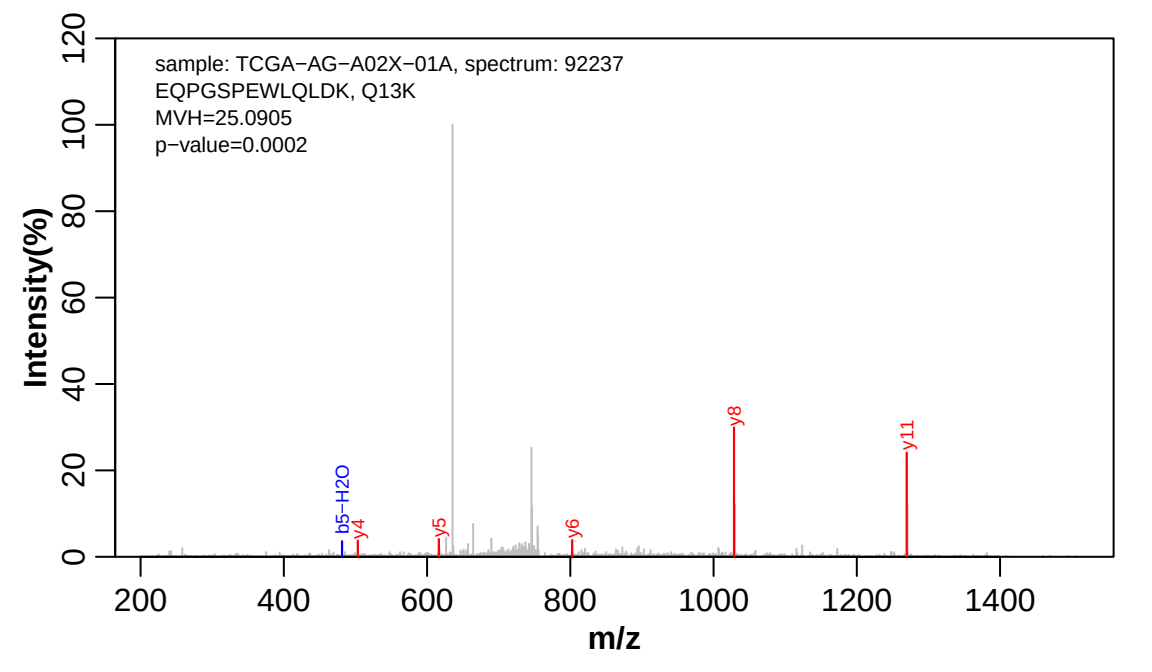

sample: TCGA−AG−A02X−01A, spectrum: 21574
AAPSVTLFPPSSEELQANK, T2A
MVH=51.6048
p−value=0.0001
y11
y12
y14
b7−H2O
b8
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000

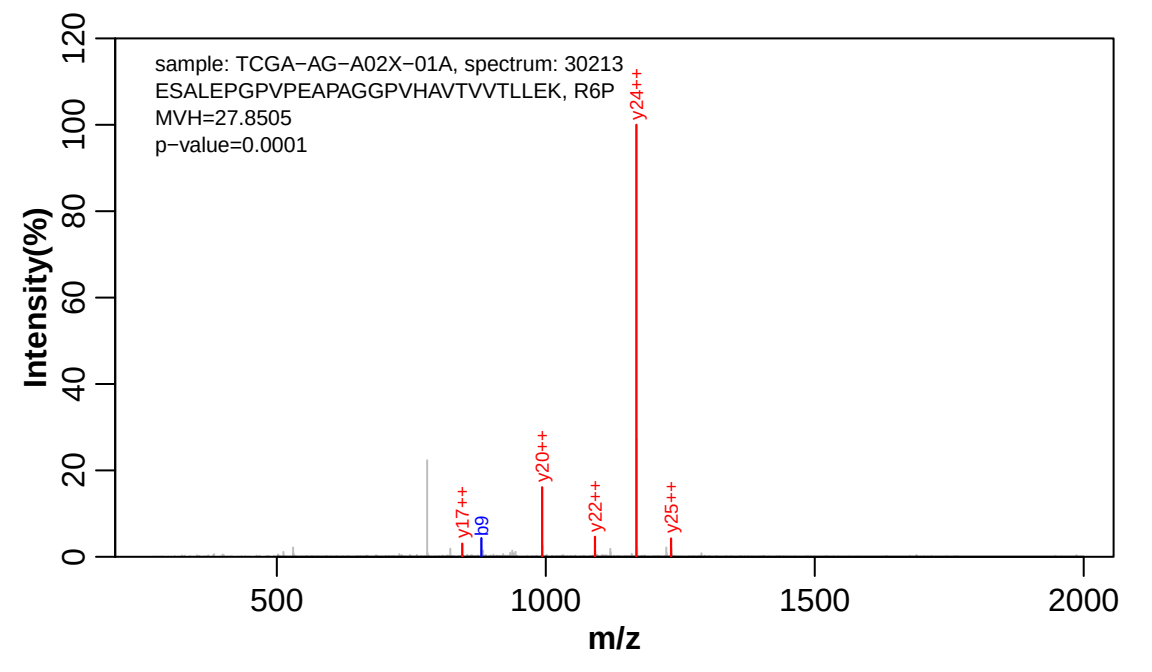

sample: TCGA−AG−A02X−01A, spectrum: 3392
ASSSLLLNESEPTTNLQLR, D8N
MVH=54.8617
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y3
y4
b6
b7−H2O
y6
b9−NH3
y9
y10
y11
y12−NH3
y12
y13−NH3
y13
b18
b18−NH3

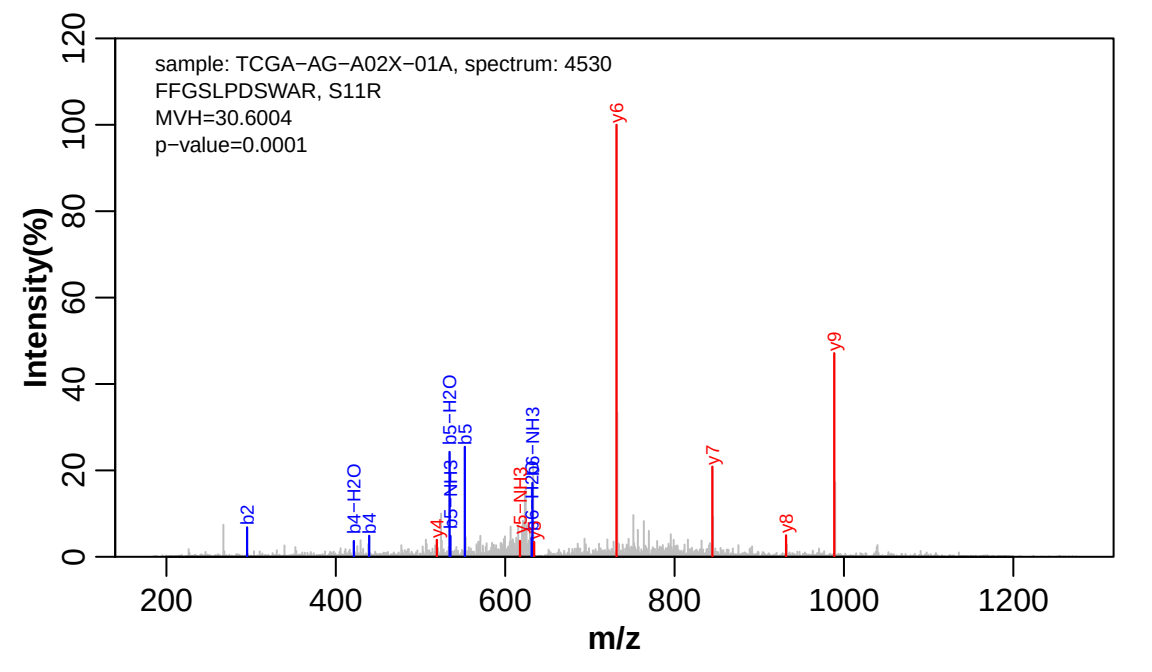

sample: TCGA−AG−A02X−01A, spectrum: 90556
DGYGFLNR, N1D
MVH=46.9290
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
y3
b4
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7−y6

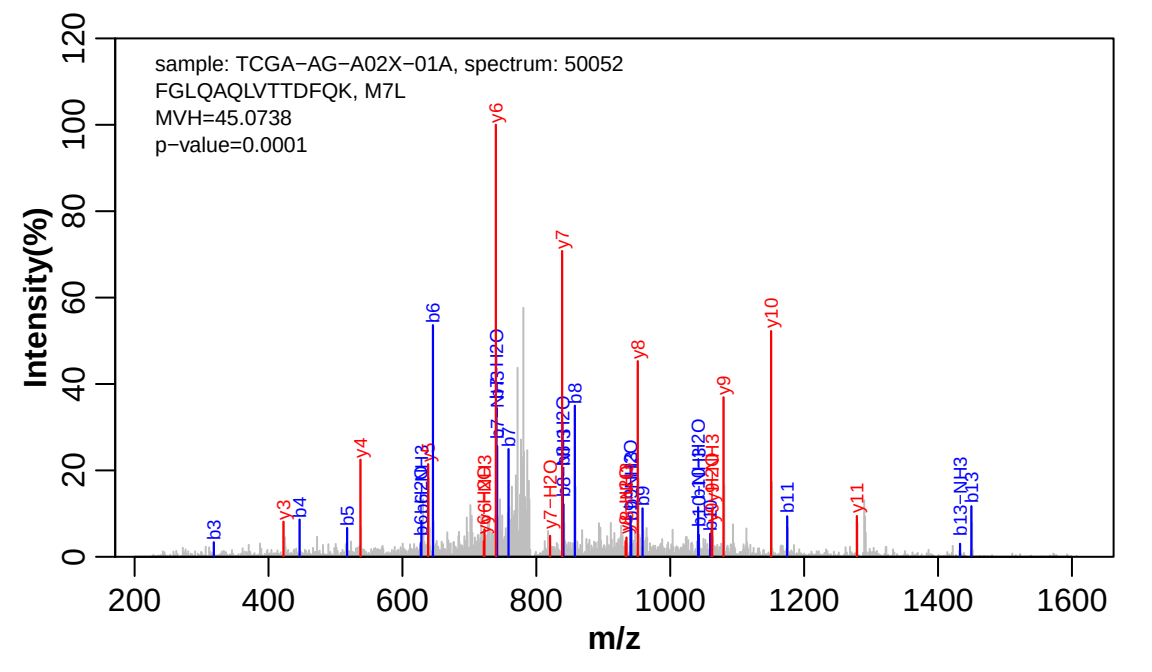

sample: TCGA−AG−A02X−01A, spectrum: 35142
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=30.8982
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

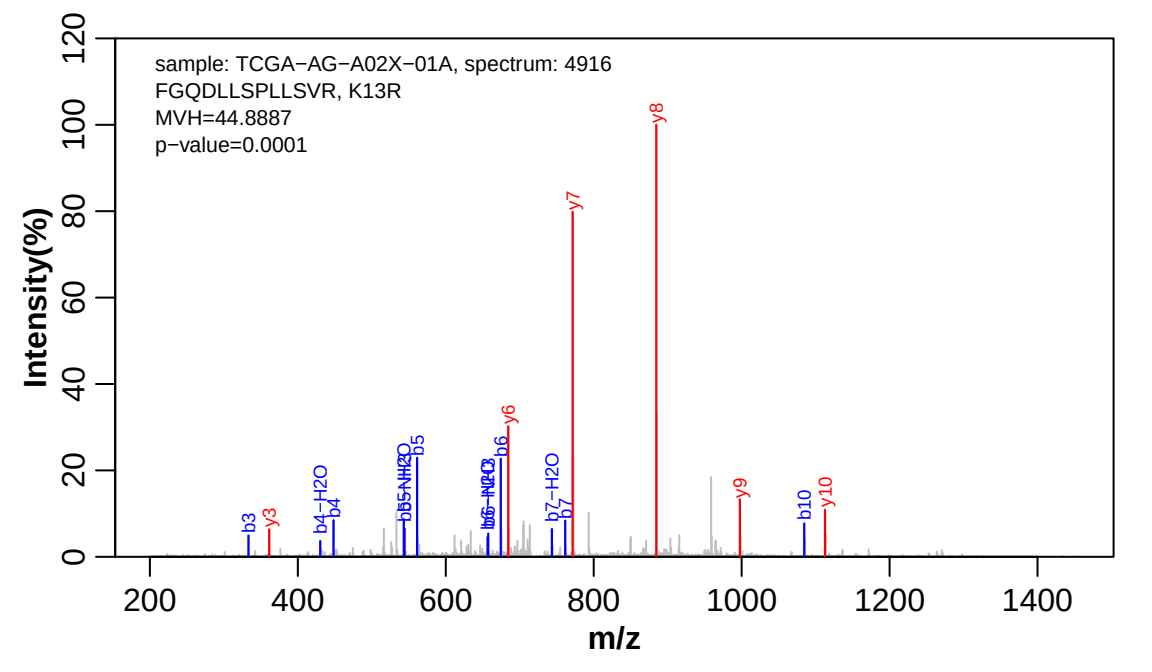

sample: TCGA−AG−A02X−01A, spectrum: 47394
EHTLHLEAELEK, S4L
MVH=34.5275
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2−H2O
b5++−H2O
y3
b7++−H2O
b8++−H2O
y8++−H2O
b9++−H2O
y9++
b10++−NH3
y5−H2O
y10++
b11++−H2O
y6
y7

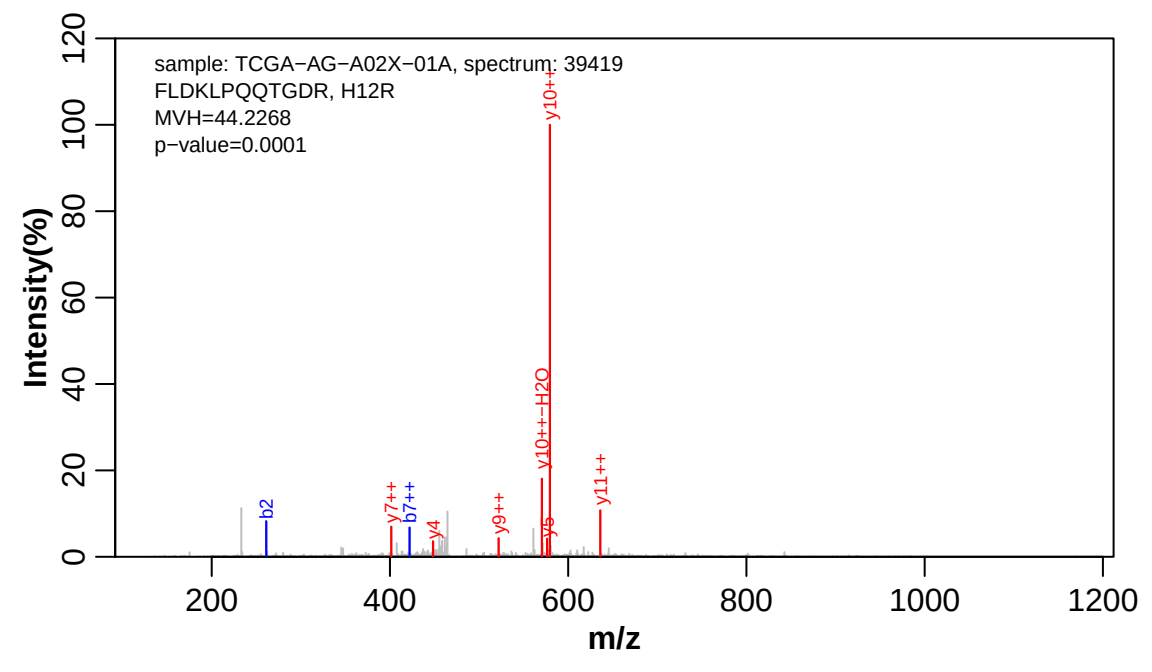

sample: TCGA−AG−A02X−01A, spectrum: 92237
EQPGSPEWLQLDK, Q13K
MVH=25.0905
p−value=0.0002
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y6
y8
y11

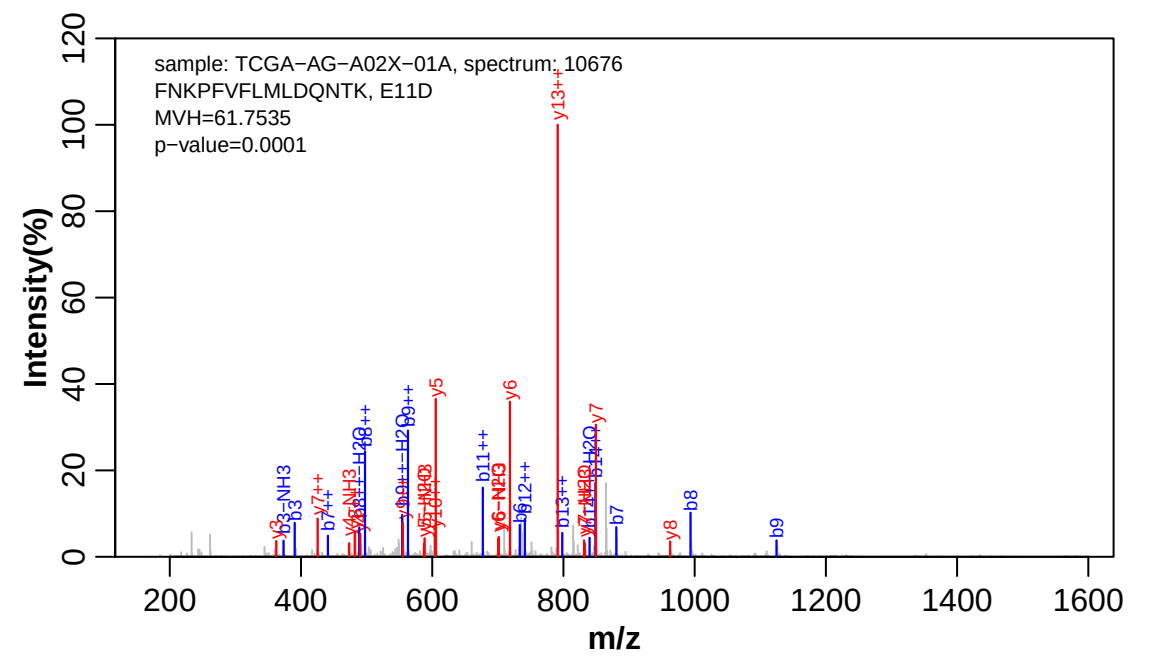

sample: TCGA−AG−A02X−01A, spectrum: 30213
ESALEPGPVPEAPAGGPVHAVTVVTLLEK, R6P
MVH=27.8505
p−value=0.0001
y24++
y20++
y17++
b9
y22++
y25++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

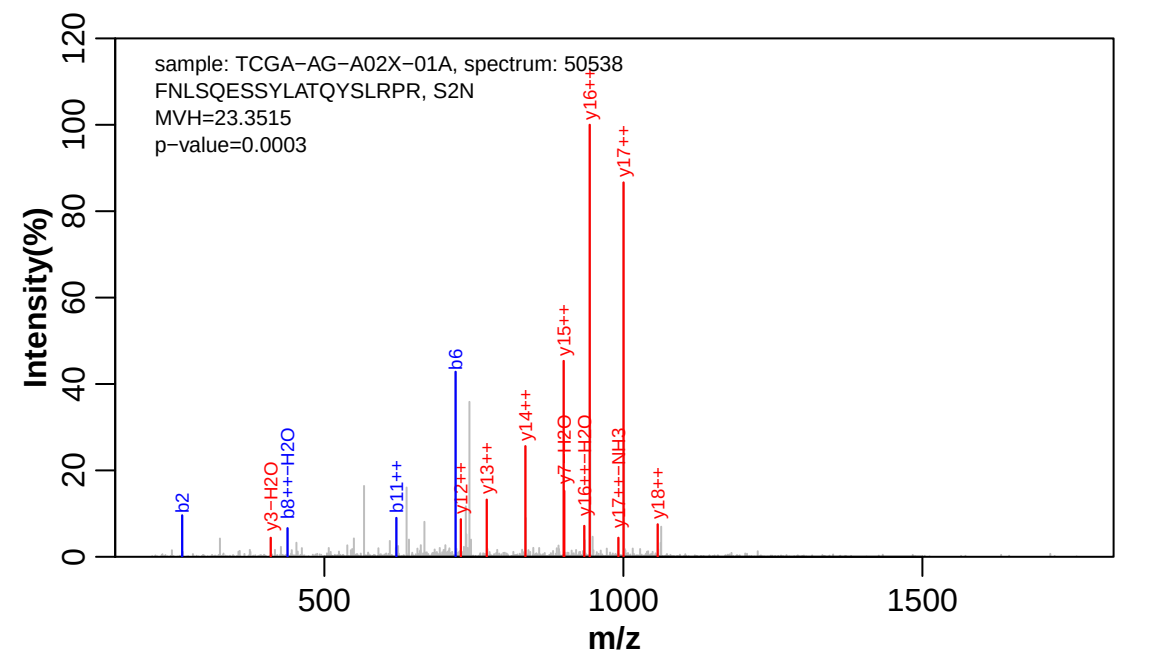

sample: TCGA−AG−A02X−01A, spectrum: 4530
FFGSLPDSWAR, S11R
MVH=30.6004
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
b4
y4
b5−NH3
b5−H2O
b5
y5−NH3
y5
y6−H2O
y6−NH3
y6
y7
y8
y9

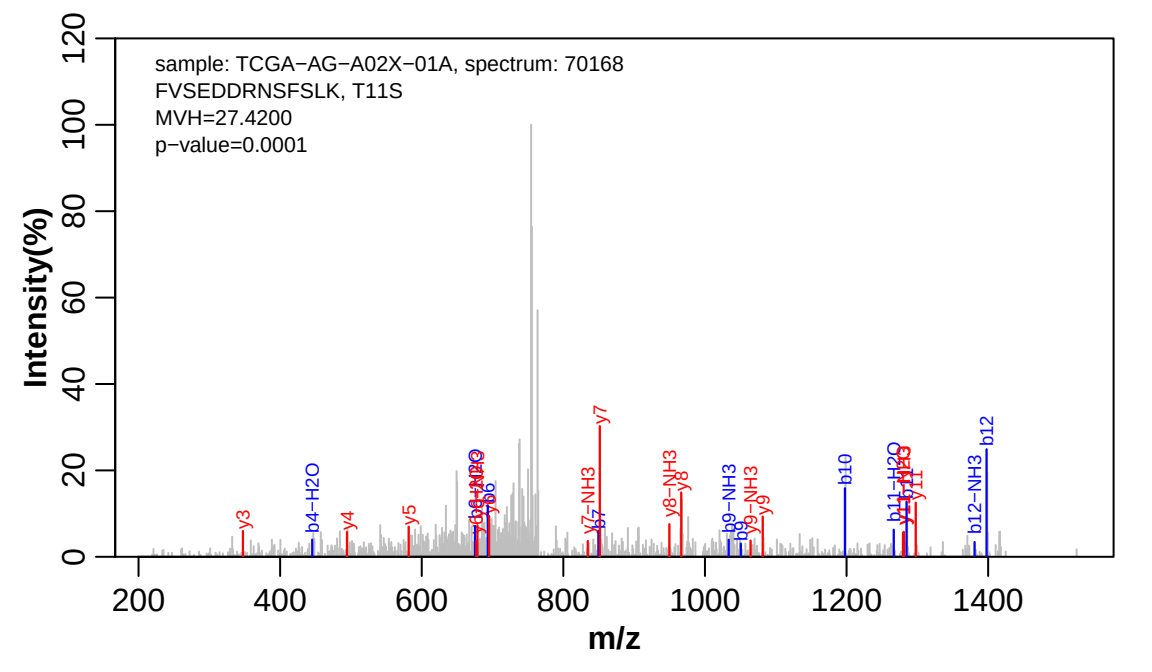

sample: TCGA−AG−A02X−01A, spectrum: 50052
FGLQAQLVTTDFQK, M7L
MVH=45.0738
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y9
y11
y4
y3
b6
b7
b8
b11
b13
b13−NH3
b5
b4
b3

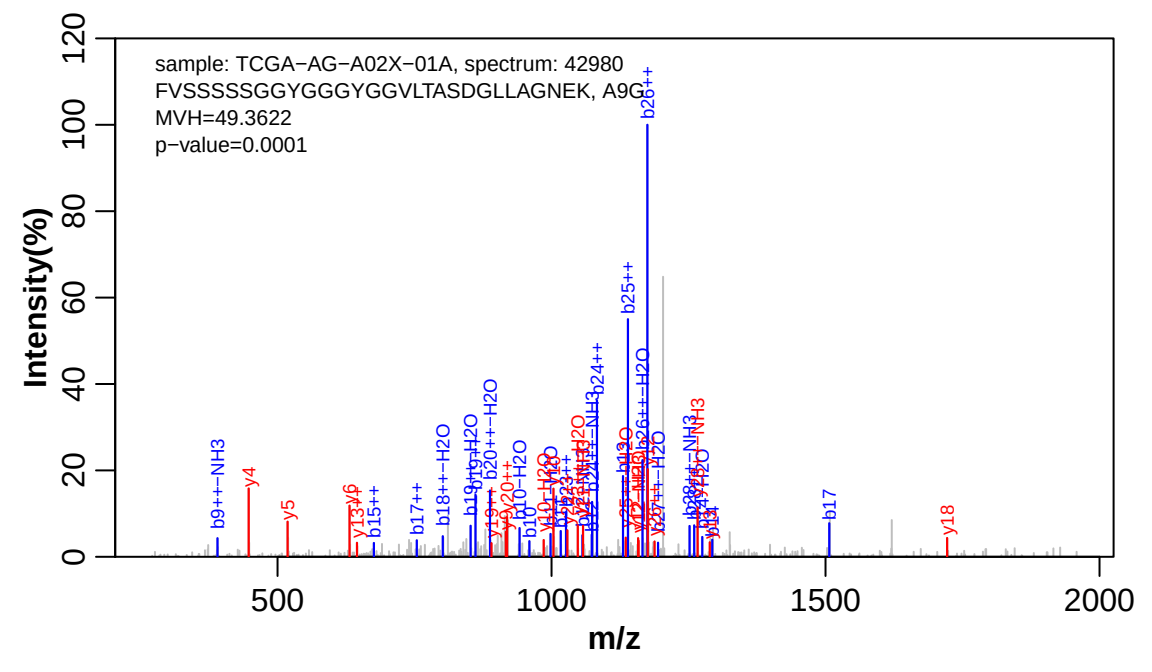

sample: TCGA−AG−A02X−01A, spectrum: 4916
FGQDLLSPLLSVR, K13R
MVH=44.8887
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y3
b4−H2O
b4
b5−NH3
b5−H2O
b5
y6
b6
b7−H2O
b7
y7
y8
y9
b10
y10

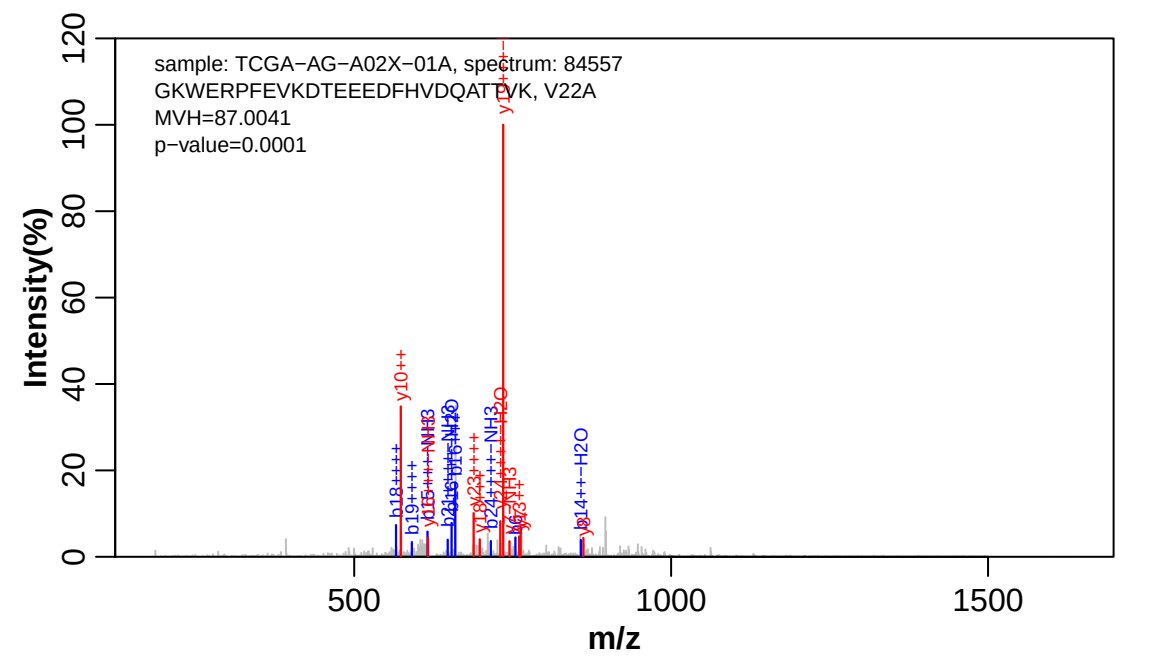

sample: TCGA−AG−A02X−01A, spectrum: 39419
FLDKLPQQTGDR, H12R
MVH=44.2268
p−value=0.0001
Intensity(%)
m/z
y10++
y10++−H2O
y11++
y7++
b7++
y9++
b2
y4
y8
0
20
40
60
80
100
120
200
400
600
800
1000
1200

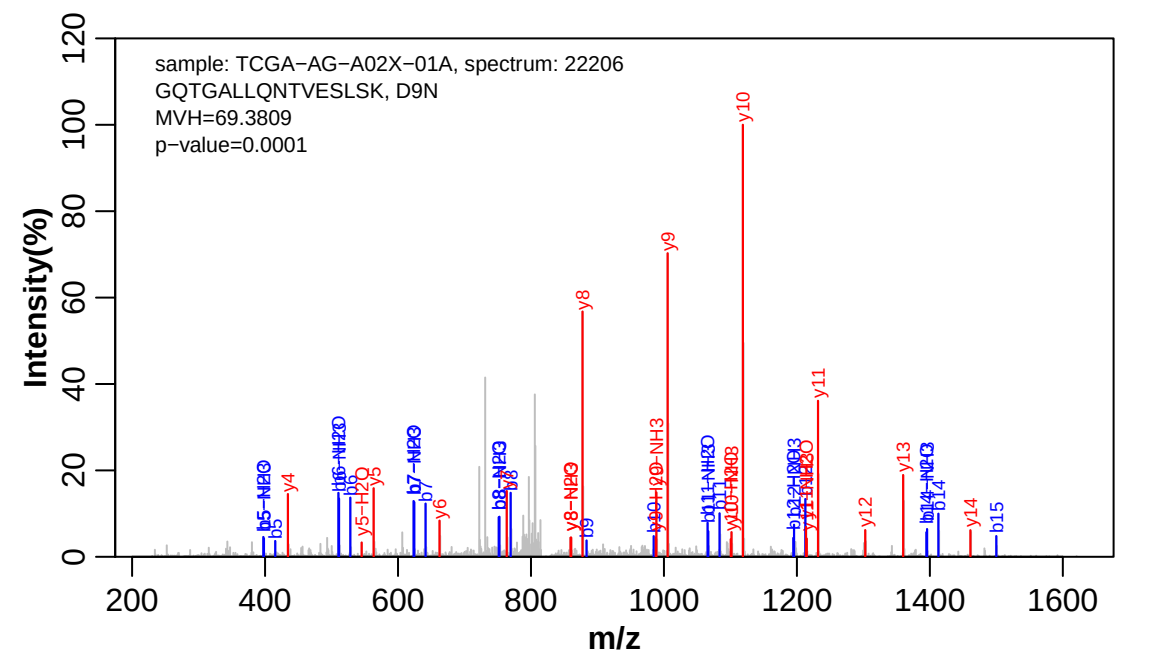

sample: TCGA−AG−A02X−01A, spectrum: 10676
FNKPFVFLMLDQNTK, E11D
MVH=61.7535
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y13++
y6
y5
y7
b11++
b12++
b13++
b7
b8
b9
y8

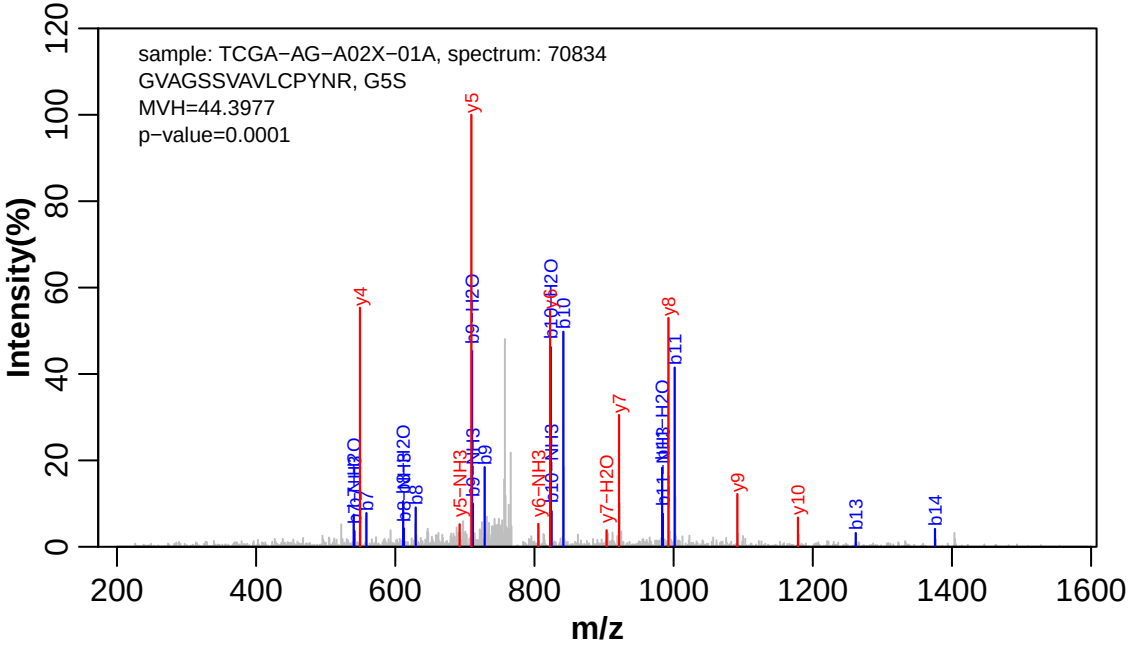

sample: TCGA−AG−A02X−01A, spectrum: 50538
FNLSQESSYLATQYSLRPR, S2N
MVH=23.3515
p−value=0.0003
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3−H2O
b8++−H2O
b11++
b6
y12++
y13++
y14++
y7−H2O
y15++
y16++−H2O
y16++
y17++−NH3
y17++
y18++

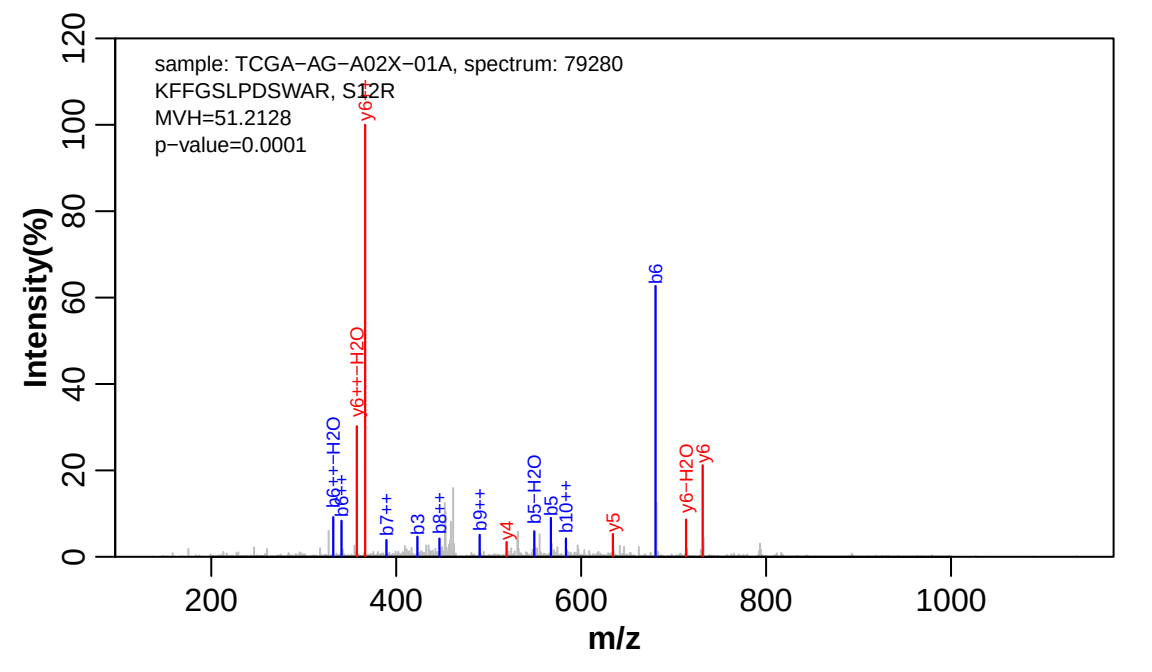

sample: TCGA−AG−A02X−01A, spectrum: 70168
FVSEDDRNSFSLK, T11S
MVH=27.4200
p−value=0.0001
Intensity(%)
m/z
y3
b4−H2O
y4
y5
y7
y7−NH3
y8−NH3
y8
b9−NH3
y9−NH3
b10
b11−H2O
b12
b12−NH3

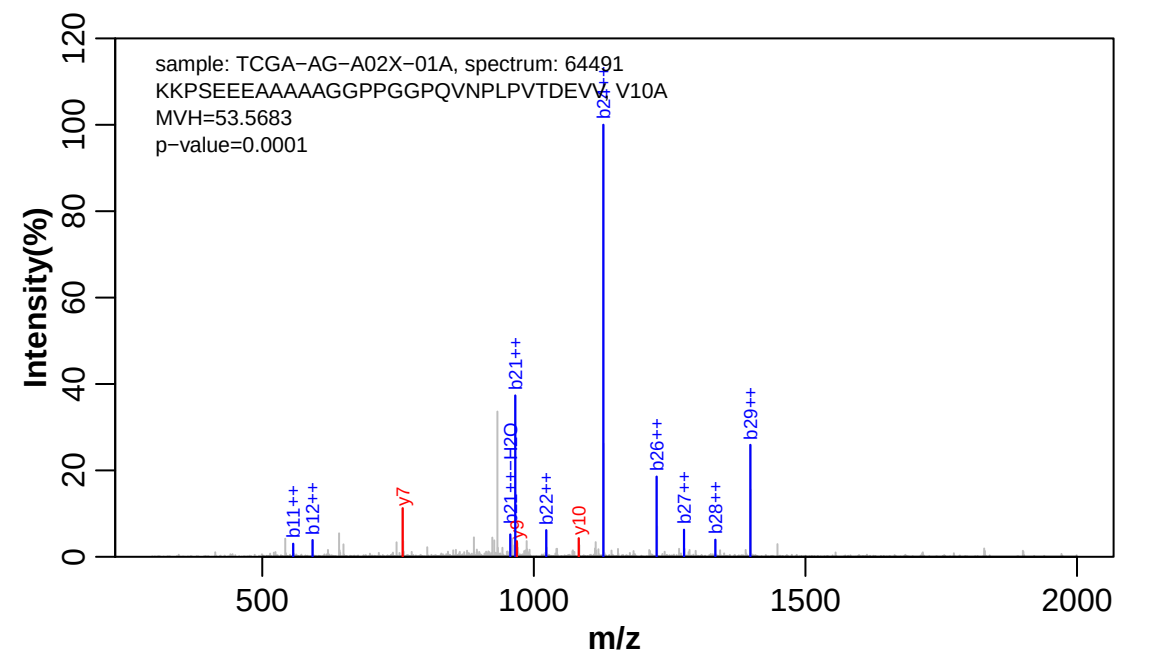

sample: TCGA−AG−A02X−01A, spectrum: 42980
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=49.3622
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9++−NH3
y4
y5
y13++
y6
b15++
b17++
b18++−H2O
b18++
b19++−H2O
b20++−H2O
y19++
y20++
b10−H2O
b10
y10−H2O
y10
b23++
b24++−NH3
b24++
b25++
b26++−H2O
b26++
b27++−H2O
b27++
b28++−NH3
b28++
y14
y19++−H2O
y19++
b17
y18

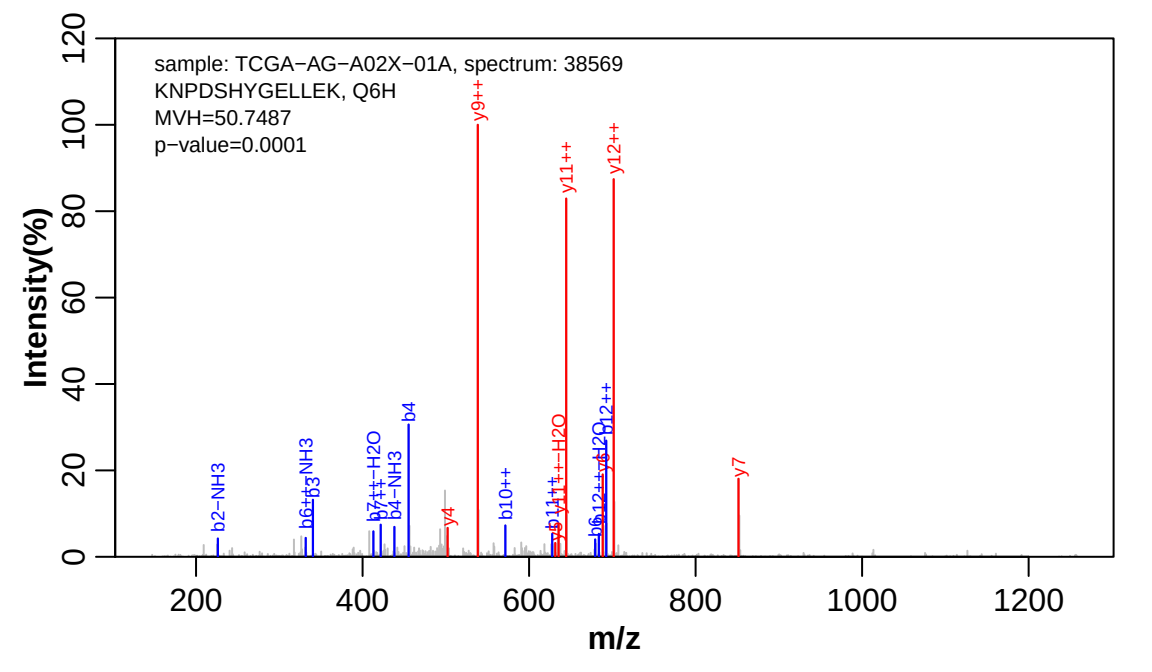

sample: TCGA−AG−A02X−01A, spectrum: 84557
GKWERPFEVKDTEEEDFHVDQATPVK, V22A
MVH=87.0041
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y10++
b18++++
b19++++
y15++++NH3
b21++++NH3
b21++++H2O
y23++++
y8++
b24++++NH3
y3++
y14++−H2O

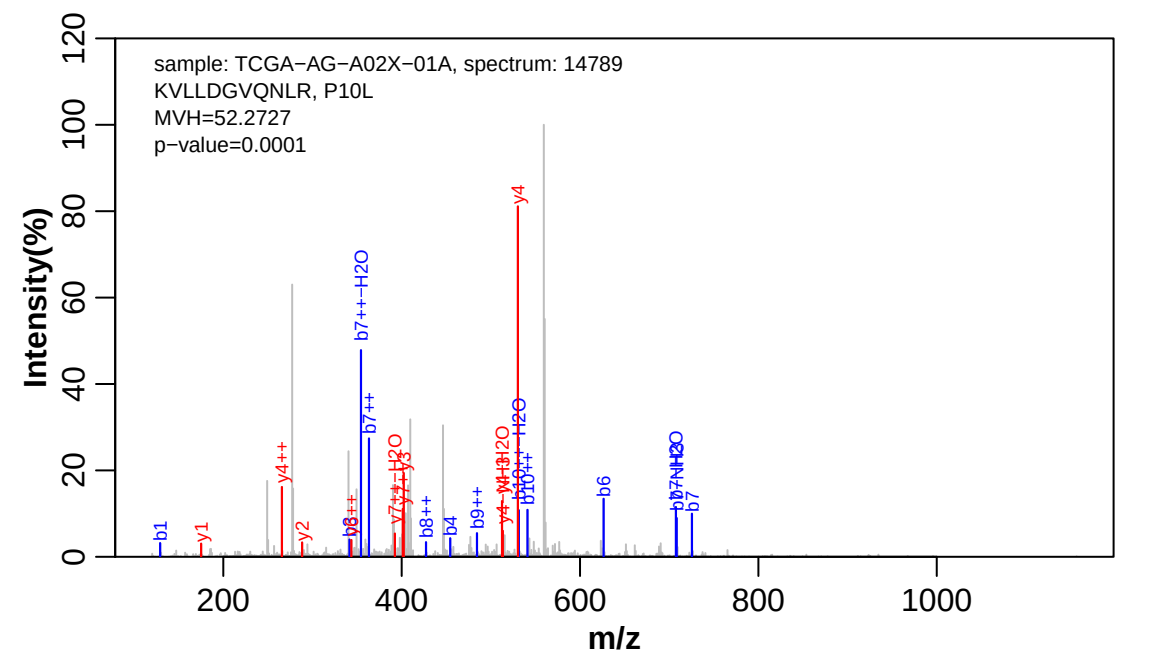

sample: TCGA−AG−A02X−01A, spectrum: 22206
GQTGALLQNTVESLSK, D9N
MVH=69.3809
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
b15
y4
y5
y6
b7
b8
b9
b11
b14

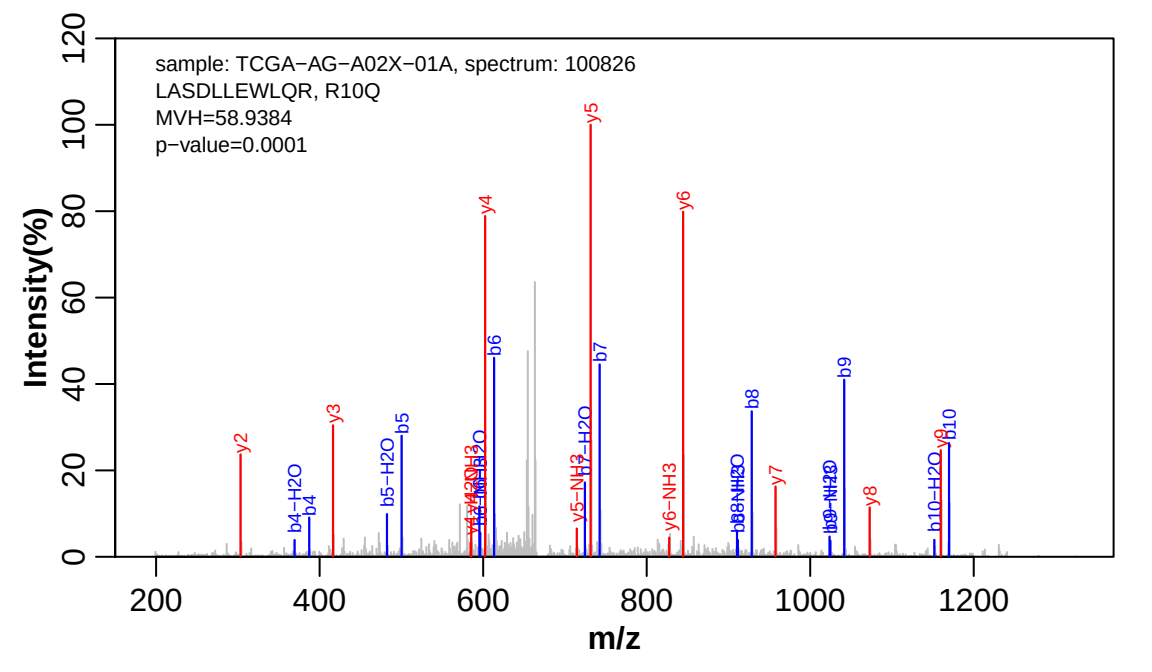

sample: TCGA−AG−A02X−01A, spectrum: 70834
GVAGSSVAVLCPYNR, G5S
MVH=44.3977
p−value=0.0001
Intensity(%)
m/z
y4
y5
b9−H2O
b10−H2O
b10
y8
b11
y7
y5−NH3
b9−NH3
y6−NH3
b10−NH3
y7−H2O
b11−H2O
y9
y10
b13
b14

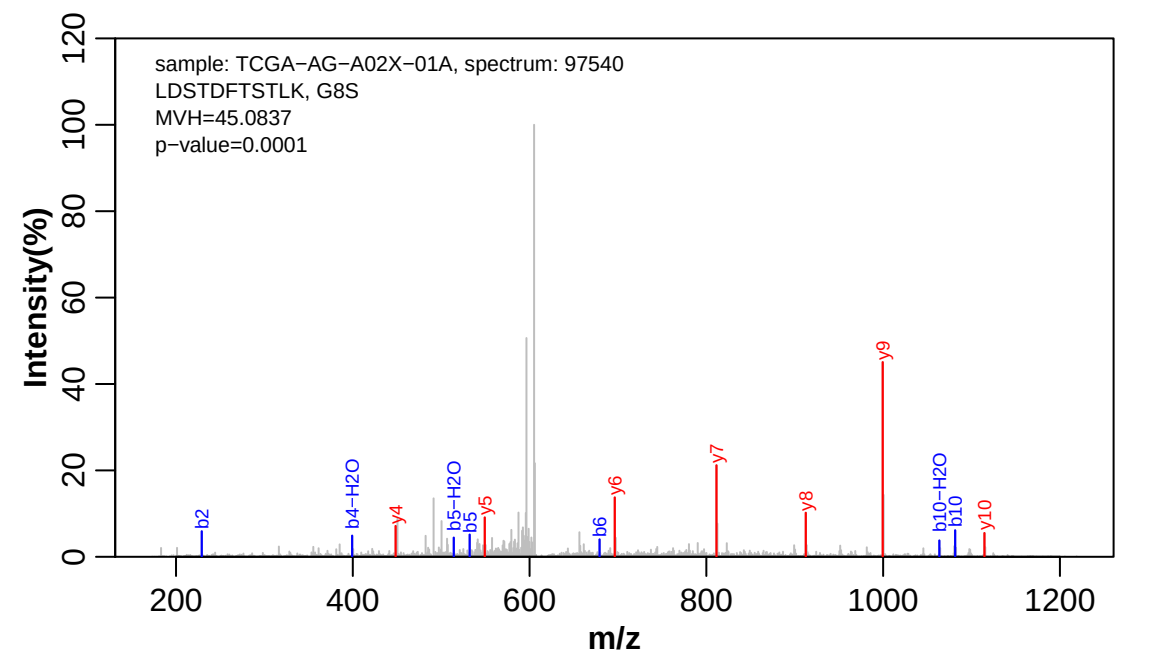

sample: TCGA−AG−A02X−01A, spectrum: 79280
KFFGSLPDSWAR, S12R
MVH=51.2128
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y6++
y6++−H2O
b6++−H2O
b6++
b8++
b7++
b3
b8++
b9++
y4
b5−H2O
b5
b10++
y5
b6
y6−H2O
y6

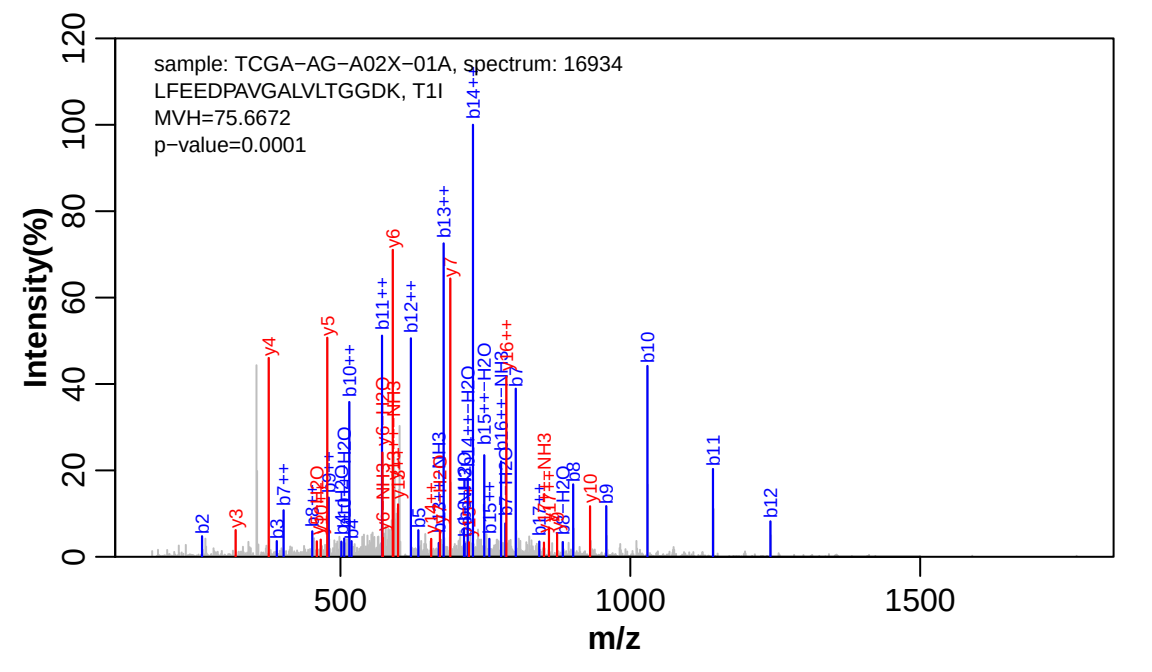

sample: TCGA−AG−A02X−01A, spectrum: 64491
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=53.5683
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
500
1000
1500
2000
b11++
b12++
y7
b21++ −H2O
b21++
y9
b22++
y10
b24++
b26++
b27++
b28++
b29++

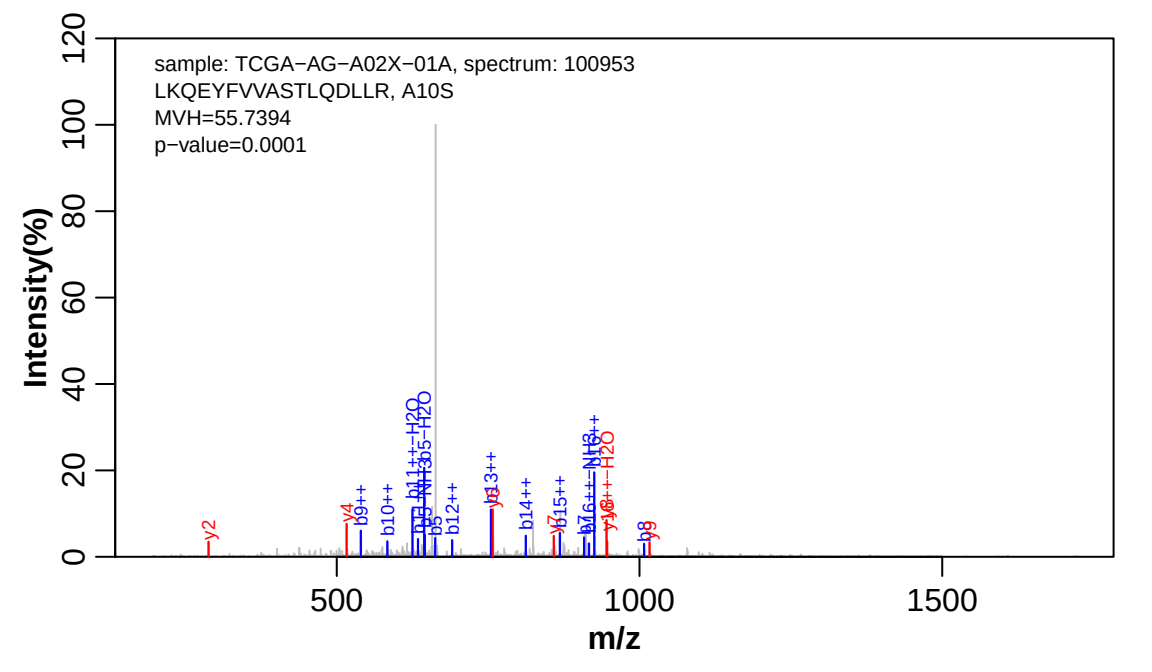

sample: TCGA−AG−A02X−01A, spectrum: 38569
KNPDSHYGELLEK, Q6H
MVH=50.7487
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−NH3
b6++−NH3
b3
b7++−H2O
b7++
b4−NH3
b4
y4
b10++
y9++
y11++−H2O
y11++
y12++
b12++
y7

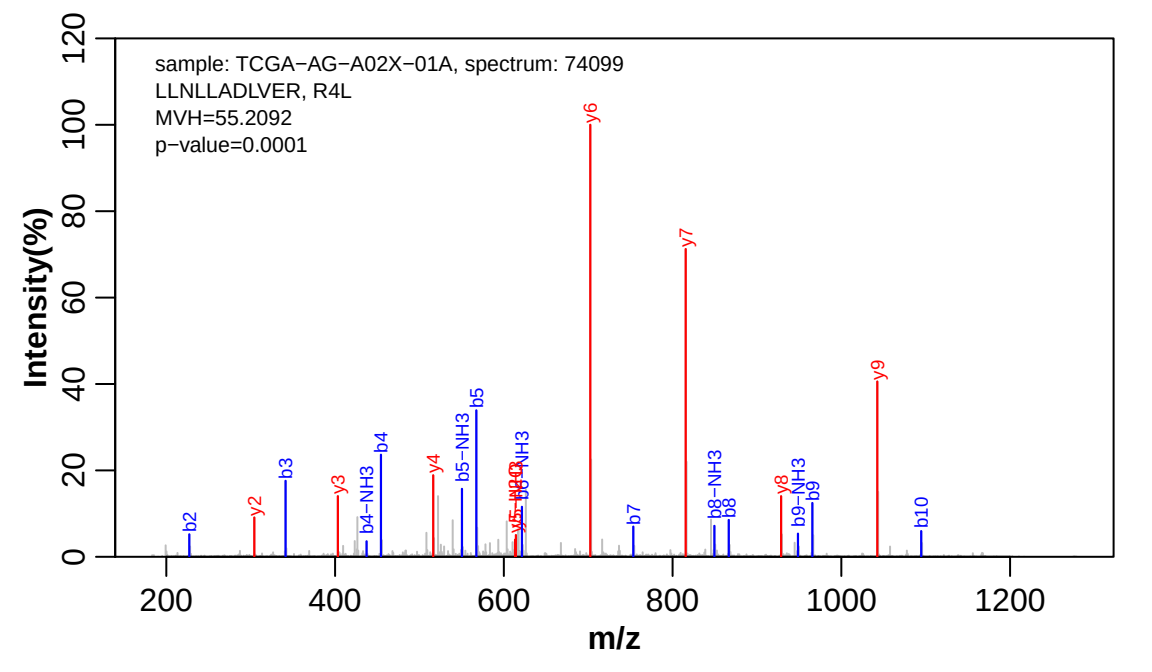

sample: TCGA−AG−A02X−01A, spectrum: 14789
KVLLDGVQNLR, P10L
MVH=52.2727
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b1
y1
y2
y4++
b7++−H2O
b7++
b8++
b4
b9++
y4
b6
b7

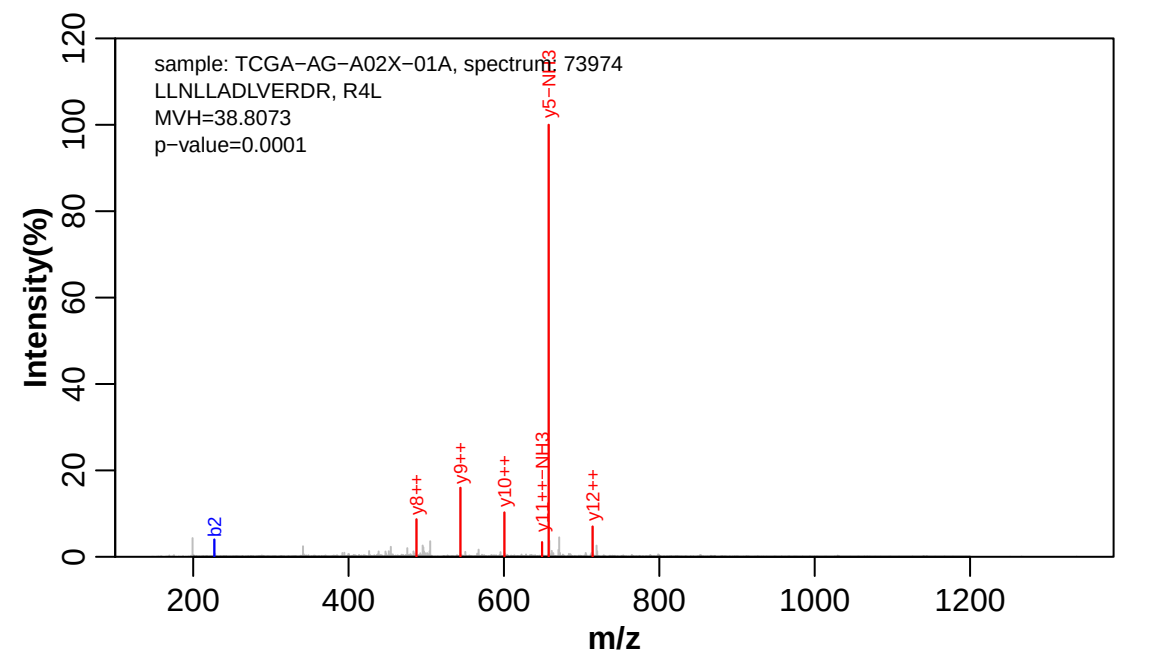

sample: TCGA−AG−A02X−01A, spectrum: 100826
LASDLLEWLQR, R10Q
MVH=58.9384
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
y3
y4
y5
y6
y7
y8
b4
b4−H2O
b5
b5−H2O
b6
b7
b8
b9
b10
b10−H2O
y5−NH3
y6−NH3
b7−H2O
b8−NH3
b8−H2O
b9−NH3
b9−H2O

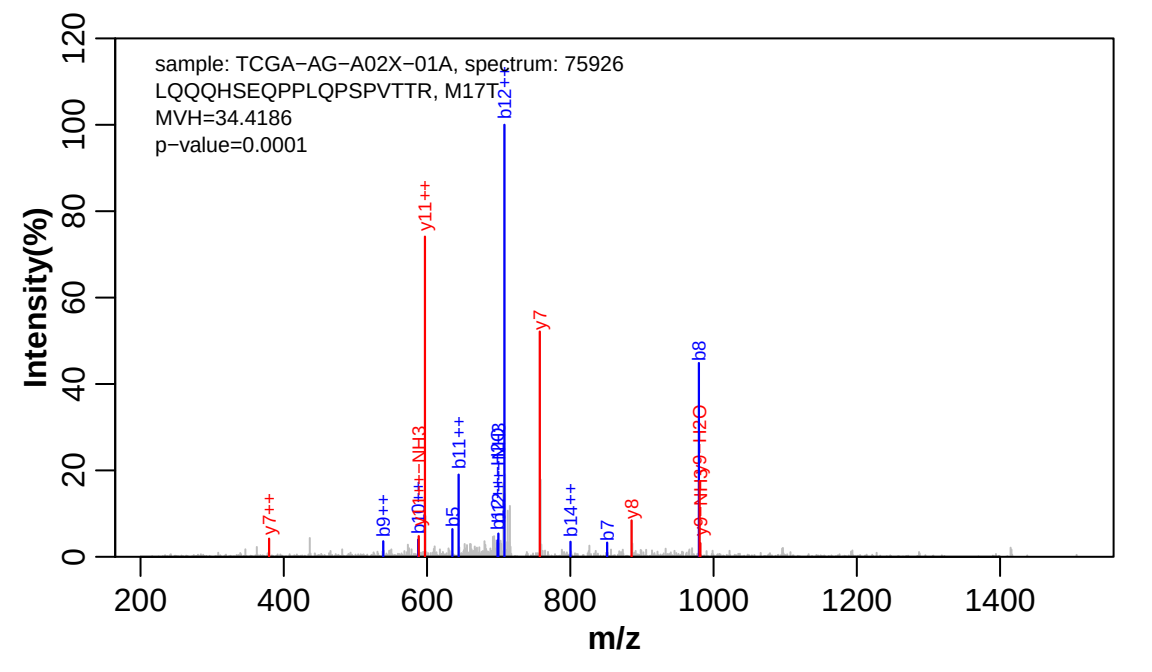

sample: TCGA−AG−A02X−01A, spectrum: 97540
LDSTDFTSTLK, G8S
MVH=45.0837
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6
y6
y7
y8
y9
b10−H2O
b10
y10

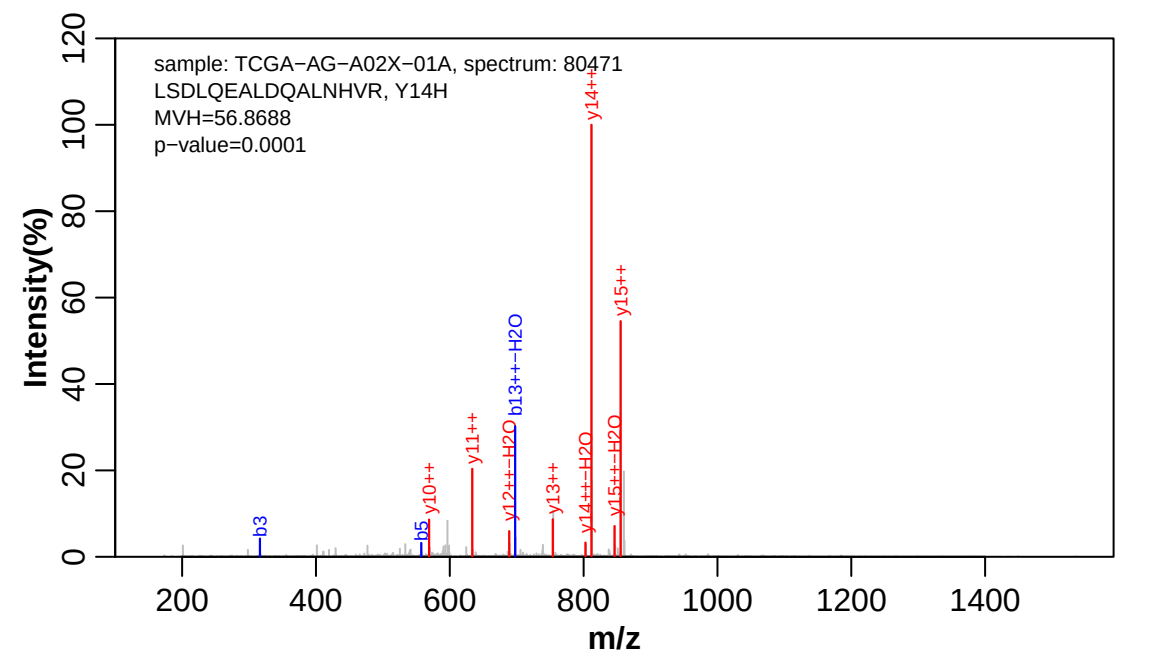

sample: TCGA−AG−A02X−01A, spectrum: 16934
LFEEDPAVGALVLTGGDK, T1I
MVH=75.6672
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
y4
b3
b7++
y5
b10++
b11++
y6
b12++
b13++
y7
b14++
b10
b11
b12
b9
y10

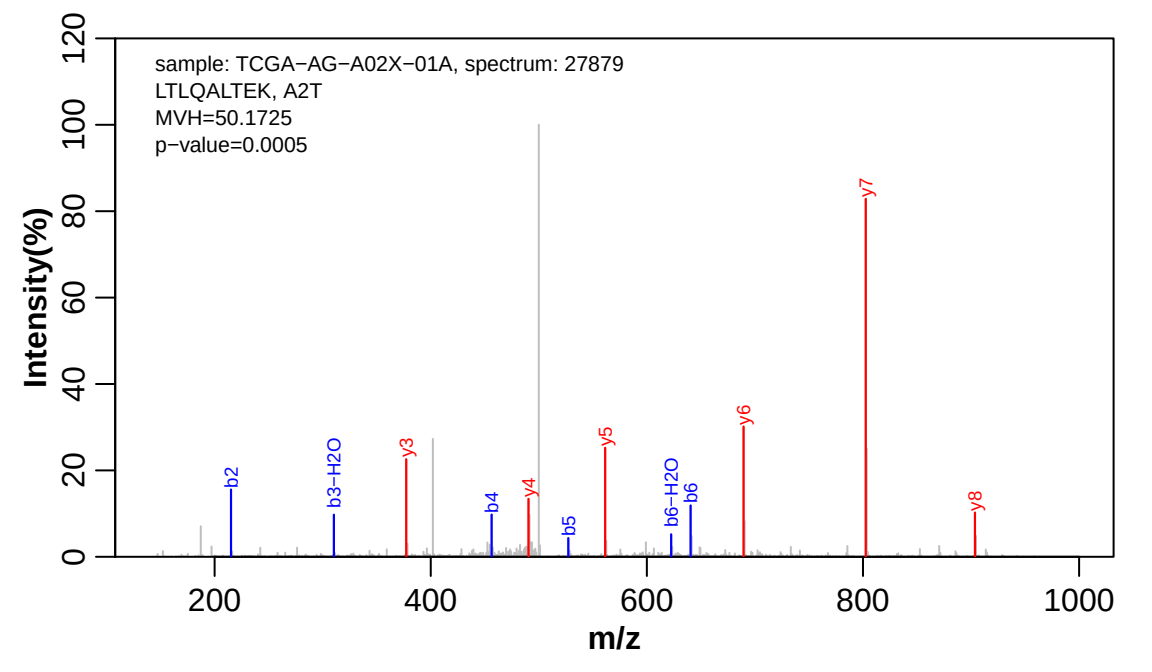

sample: TCGA−AG−A02X−01A, spectrum: 100953
LKQEYFVVASTLQDLLR, A10S
MVH=55.7394
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y2
y4
b9++
b10++
b11++−H2O
b11++−NH3
b11++
b5−H2O
b5
b12++
y13++
b14++
y15++
b16++−NH3
b16++
y16++−H2O
b8
y8

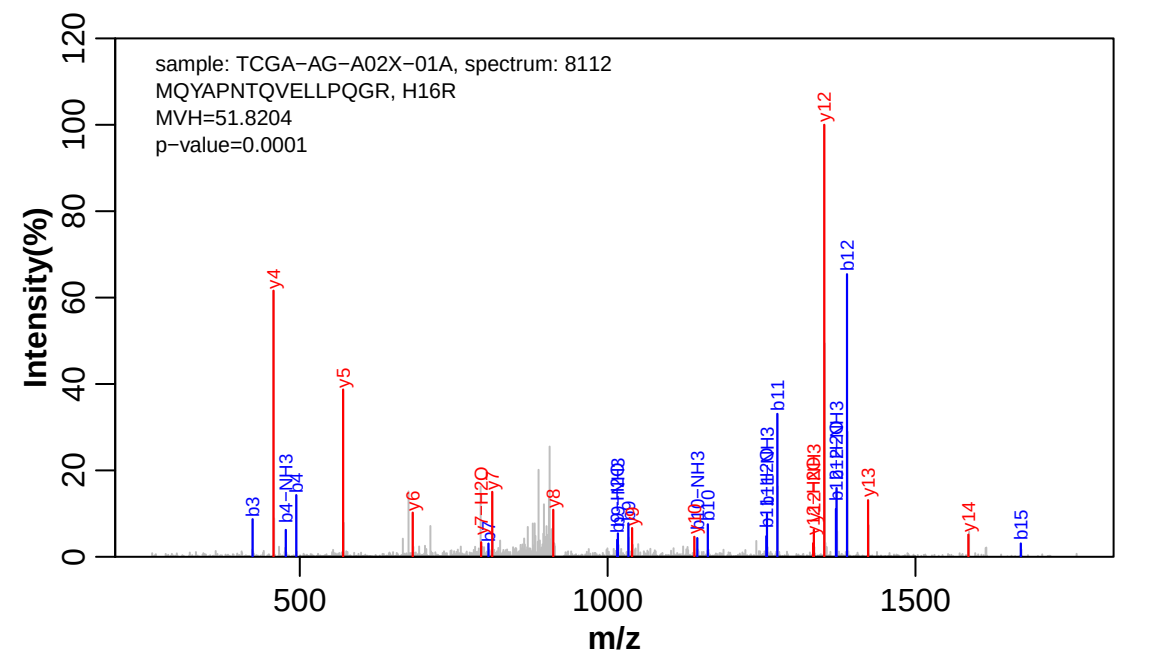

sample: TCGA−AG−A02X−01A, spectrum: 74099
LLNLLADLVER, R4L
MVH=55.2092
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

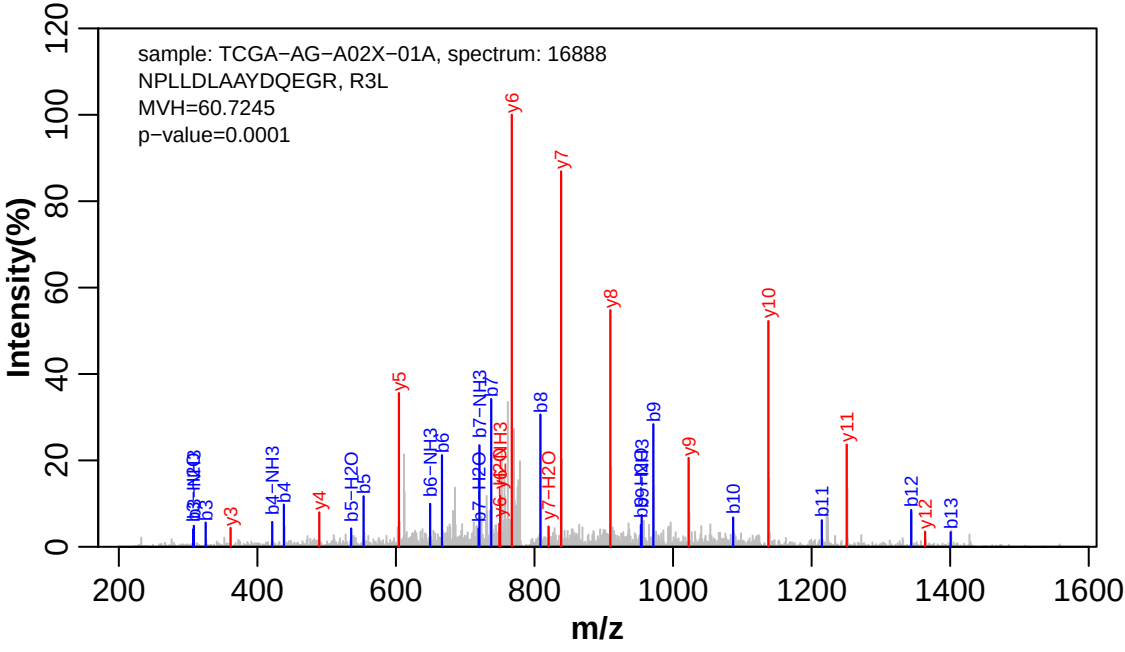

sample: TCGA−AG−A02X−01A, spectrum: 73974
LLNLLADLVERDR, R4L
MVH=38.8073
p−value=0.0001
y5−NH3
b2
y8++
y9++
y10++
y11++−NH3
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

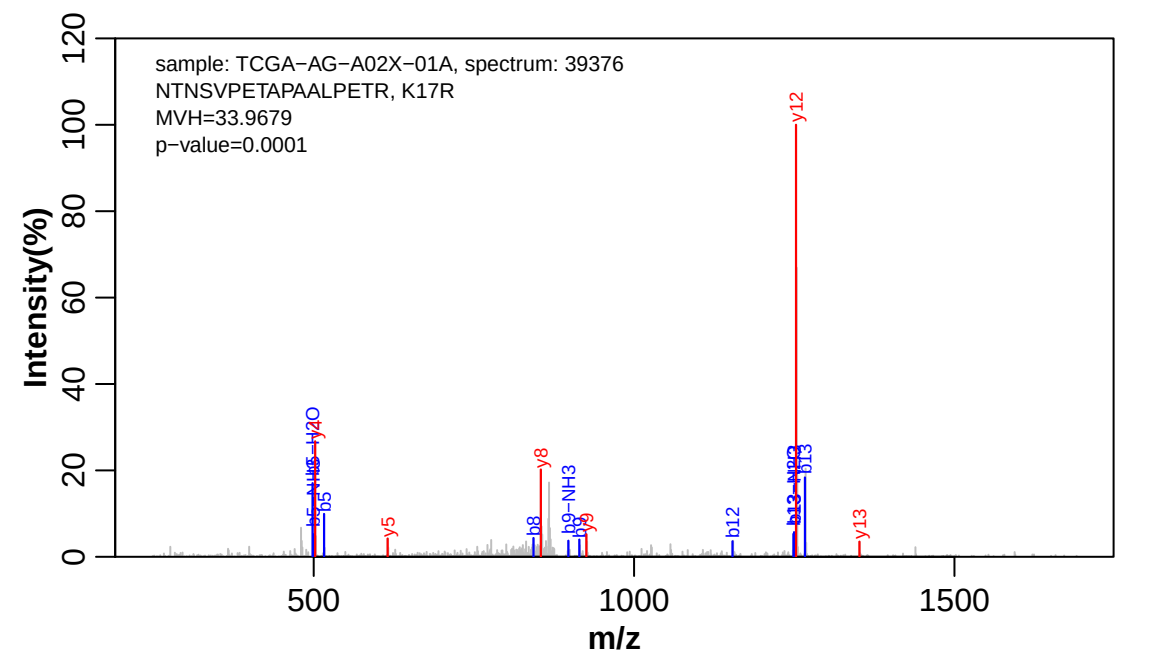

sample: TCGA−AG−A02X−01A, spectrum: 75926
LQQQHSEQPPLQPSPVTTR, M177
MVH=34.4186
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7++
b9++
b10++−NH3
y11++
b5
b11++
b12++
b12++
b12++
b12++
y7
b14++
b7
y8
b8
y9−NH3
y9−H2O

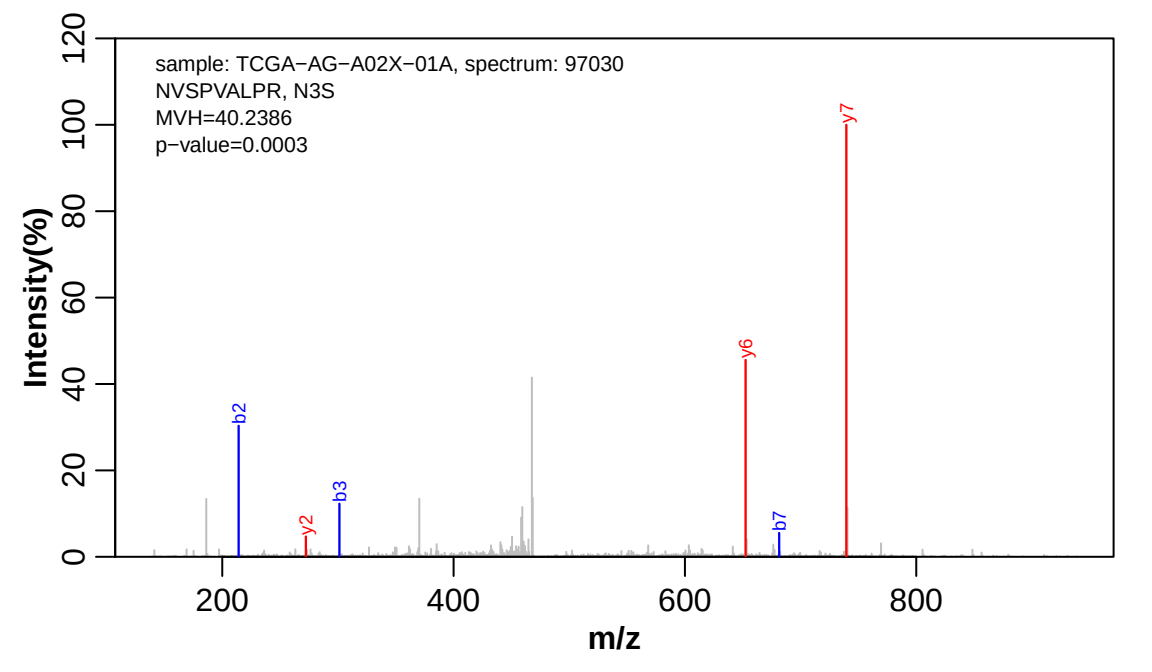

sample: TCGA−AG−A02X−01A, spectrum: 80471
LSDLQEALDQALNHVR, Y14H
MVH=56.8688
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b3
b5
y10++
y11++
y12++−H2O
b13++−H2O
y13++
y14++−H2O
y14++
y15++−H2O
y15++

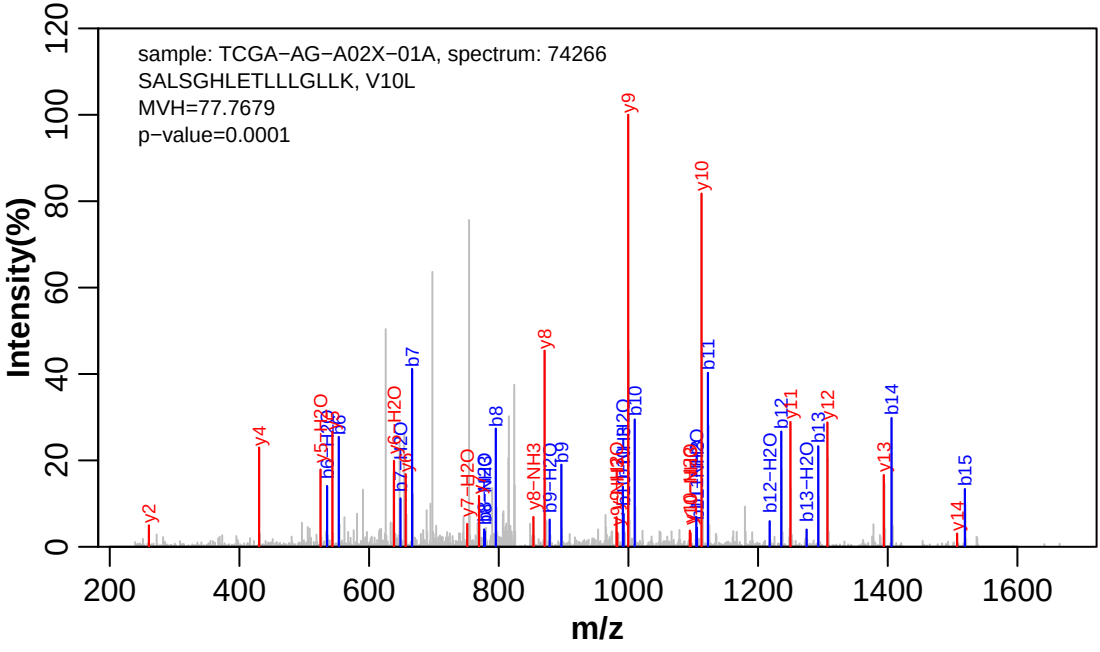

sample: TCGA−AG−A02X−01A, spectrum: 27879
LTLQALTEK, A2T
MVH=50.1725
p−value=0.0005
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3−H2O
y3
b4
y4
b5
y5
b6−H2O
b6
y6
y7
y8

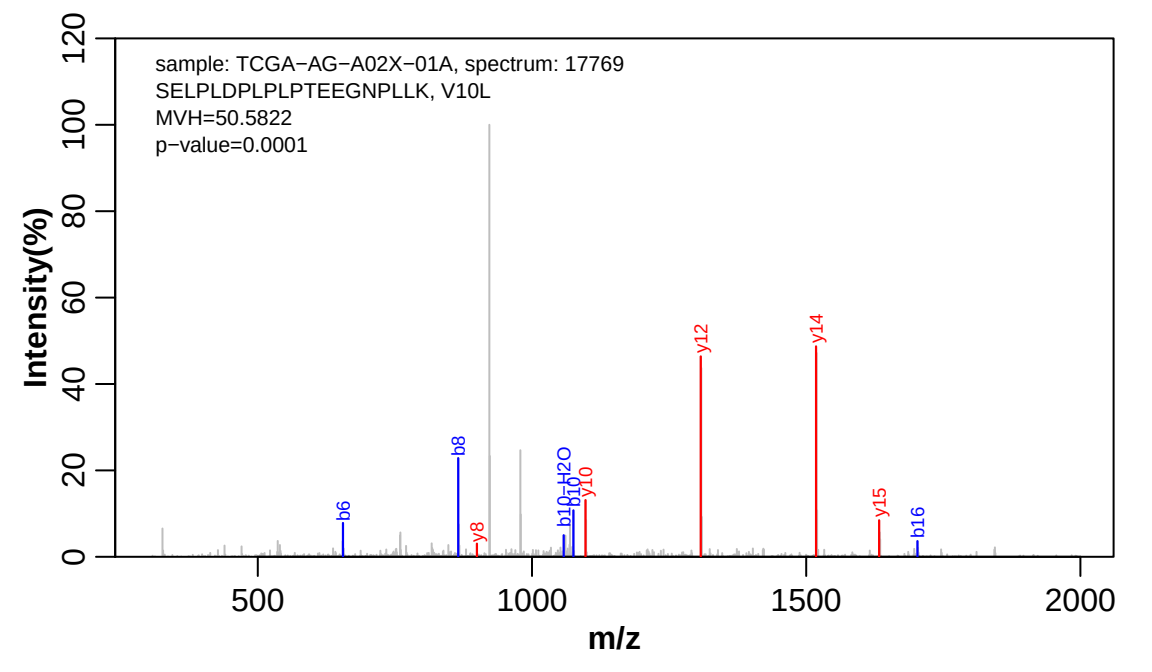

sample: TCGA−AG−A02X−01A, spectrum: 8112
MQYAPNTQVELLPQGR, H16R
MVH=51.8204
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4−NH3
b4
y5
y6
y7−H2O
y7
y8
y10−NH3
b11
b12
y12
y13
y14
b15

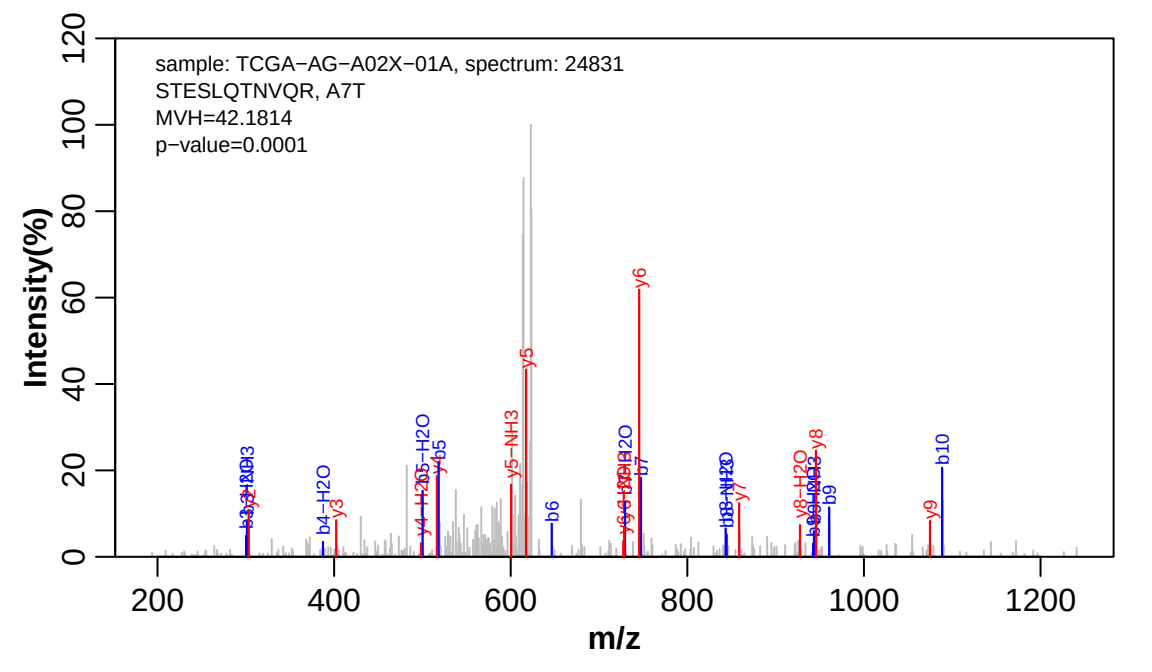

sample: TCGA−AG−A02X−01A, spectrum: 16888
NPLLDLAAYDQEGR, R3L
MVH=60.7245
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y7
y8
y10
y5
b8
b7−NH3
b7
b6−NH3
b6
b9
y9
y11
b4−NH3
b4
y4
b5−H2O
b5
y7−H2O
b10
b11
b12
y12
b13
y3

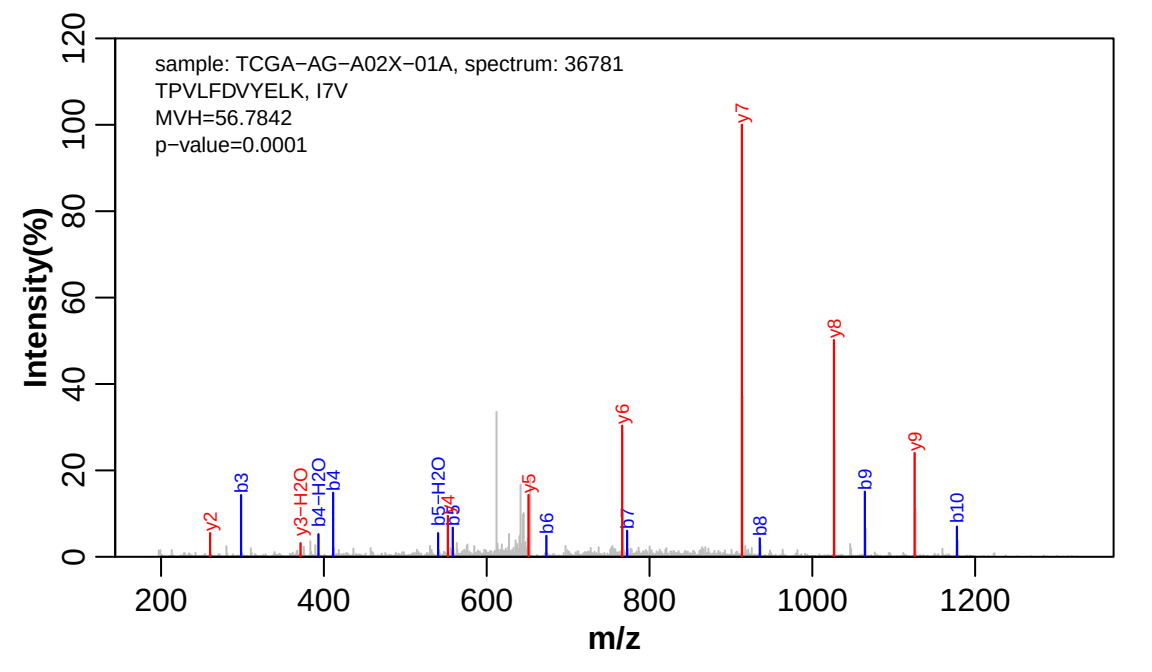

sample: TCGA−AG−A02X−01A, spectrum: 39376
NTNSVPETAPAALPETR, K17R
MVH=33.9679
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y8
y5
b8
b9−NH3
b9
b12
b13
y13
b5
y4

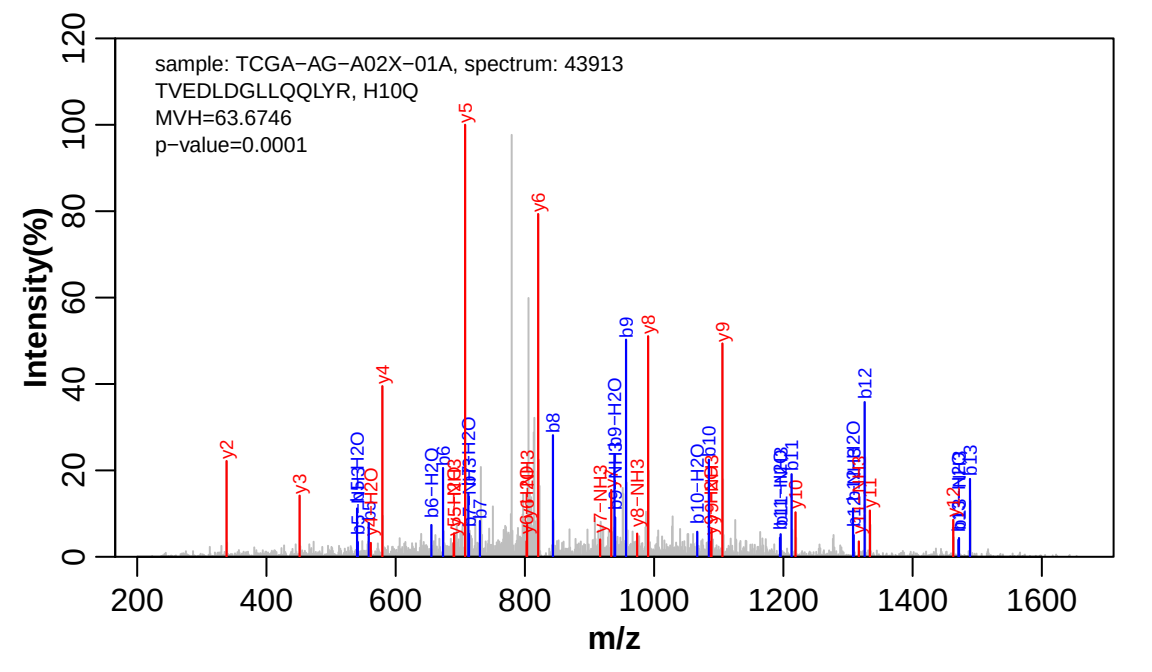

sample: TCGA−AG−A02X−01A, spectrum: 97030
NVSPVALPR, N3S
MVH=40.2386
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y6
b7
y7

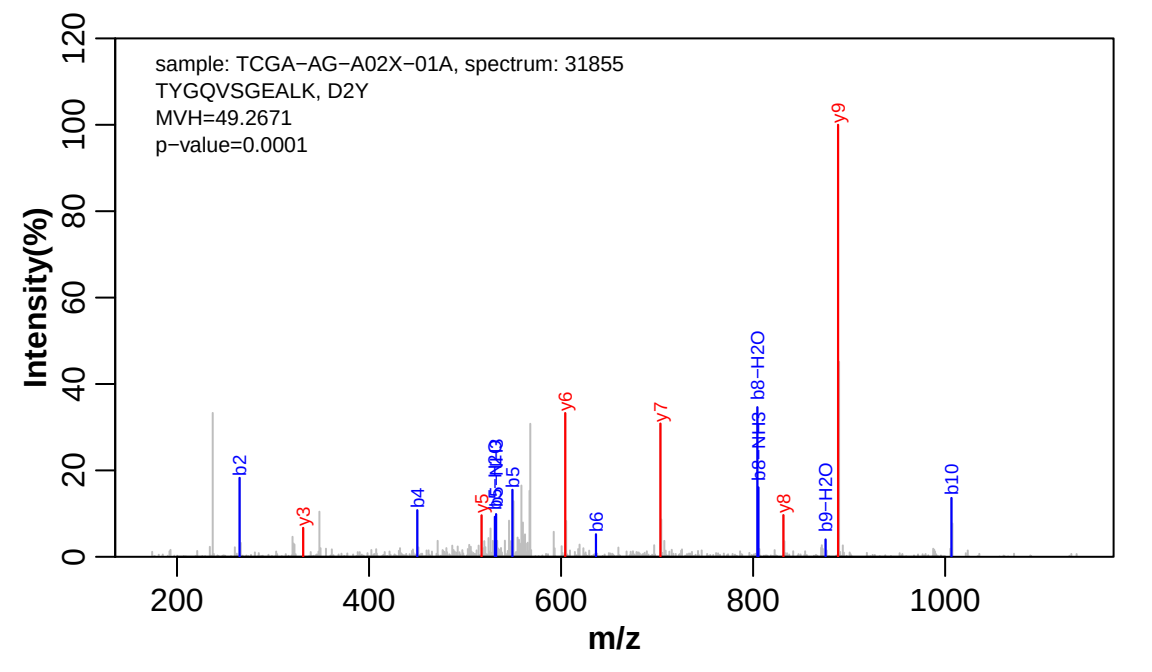

sample: TCGA−AG−A02X−01A, spectrum: 74266
SALSGHLETLLLGLLK, V10L
MVH=77.7679
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y9
y10
y8
b7
y4
y2
b11
b10
b8
b9
b12
y11
y12
b14
y13
b15
y14

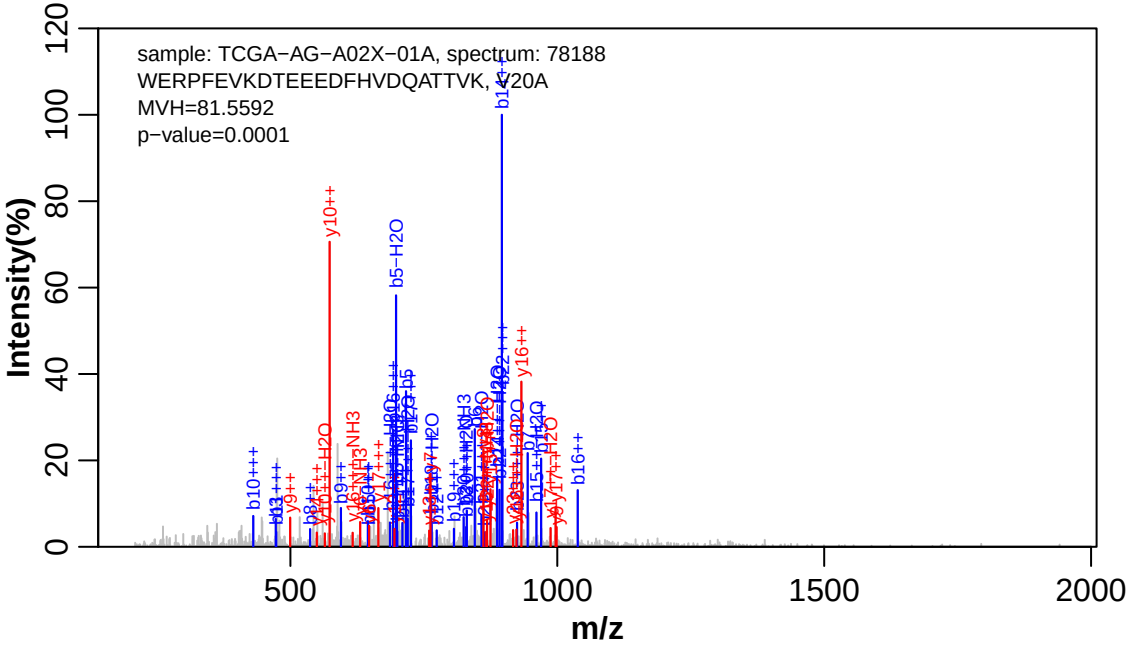

sample: TCGA−AG−A02X−01A, spectrum: 17769
SELPLDPLPLPTEEGNPLLK, V10L
MVH=50.5822
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z
b6
b8
y8
b10
b10−H2O
y10
y12
y14
y15
b16

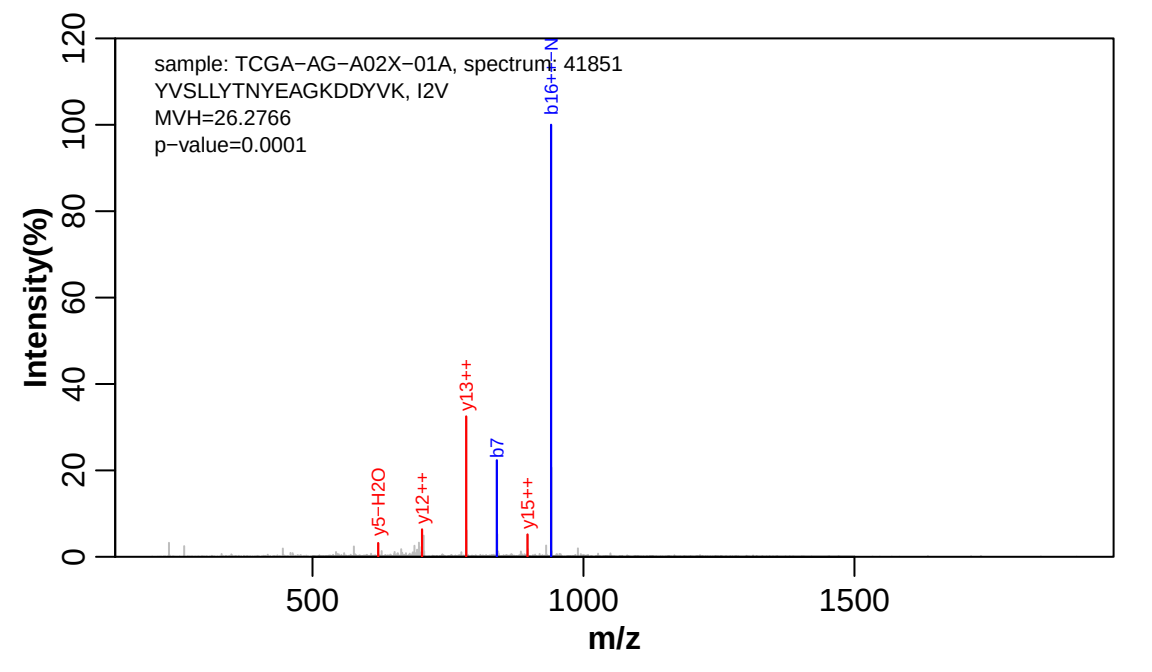

sample: TCGA−AG−A02X−01A, spectrum: 24831
STESLQTNVQR, A7T
MVH=42.1814
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b4−H2O
y3
y4−H2O
y4−NH3
y5
y5−H2O
y5−NH3
b6
y6
b7
y7
b8−NH3
y8
y8−H2O
b9
y9
b10

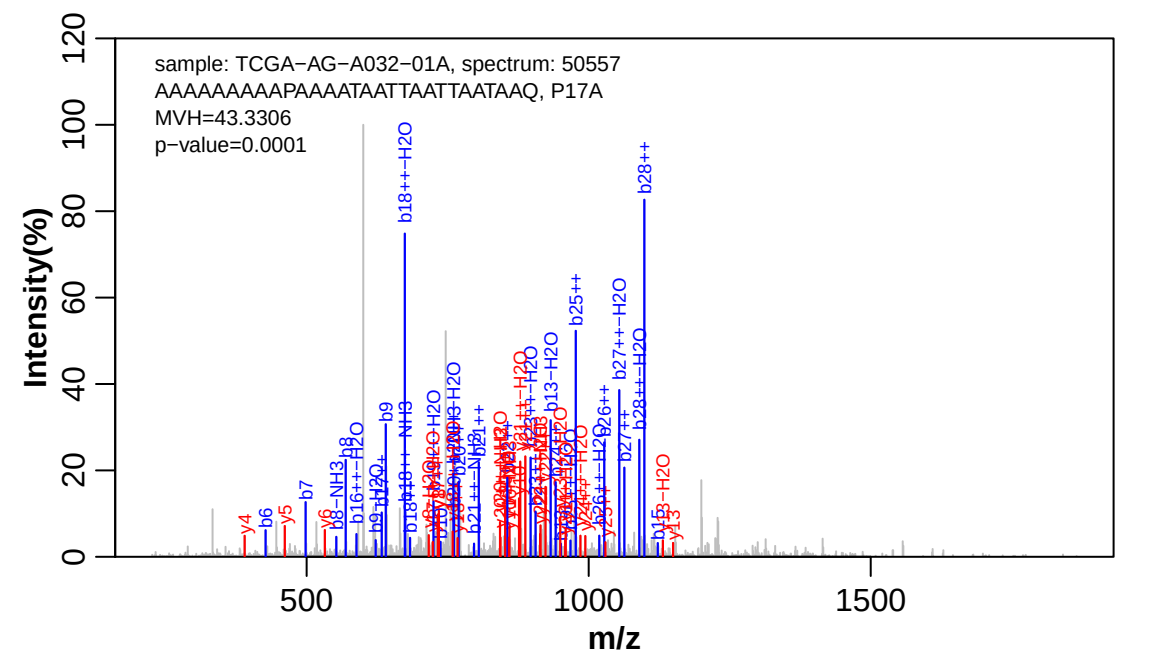

sample: TCGA−AG−A02X−01A, spectrum: 36781
TPVLFDVYELK, I7V
MVH=56.7842
p−value=0.0001
Intensity(%)
m/z
y2
b3
y3−H2O
b4−H2O
b4
b5−H2O
b5
b4
y5
b6
y6
b7
y7
b8
y8
b9
y9
b10

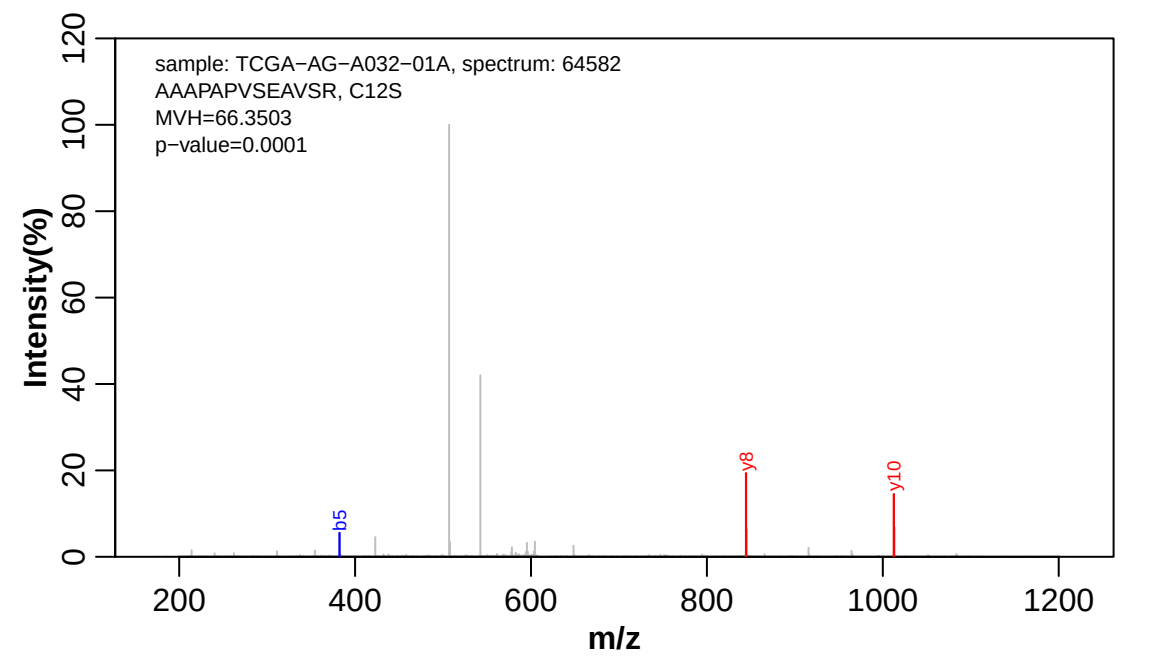

sample: TCGA−AG−A02X−01A, spectrum: 43913
TVEDLDGLLQQLYR, H10Q
MVH=63.6746
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y4
y2
y3
y8
y9
b9
b8
b12
b13
y7−NH3
y8−NH3
b10−H2O
y10
y11
b6−H2O
b11−H2O
b5−H2O

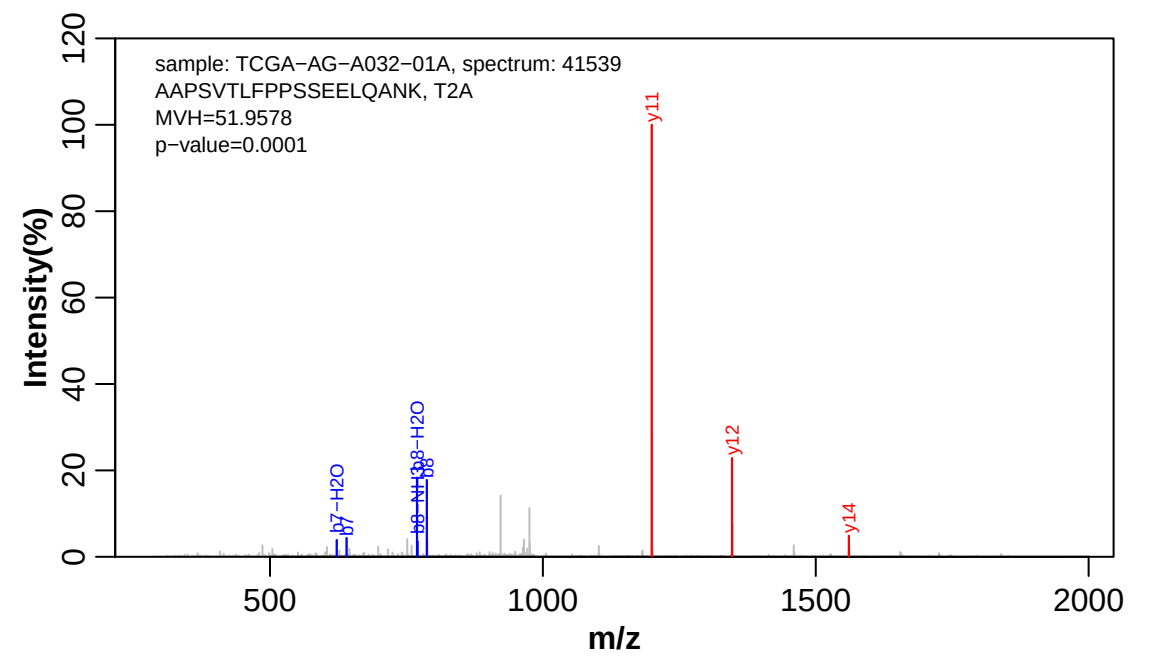

sample: TCGA−AG−A02X−01A, spectrum: 31855
TYGQVSGEALK, D2Y
MVH=49.2671
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
y3
b4
y5
b5
y6
b6
y7
b8−H2O
b8−NH3
y8
b9−H2O
y9
b10

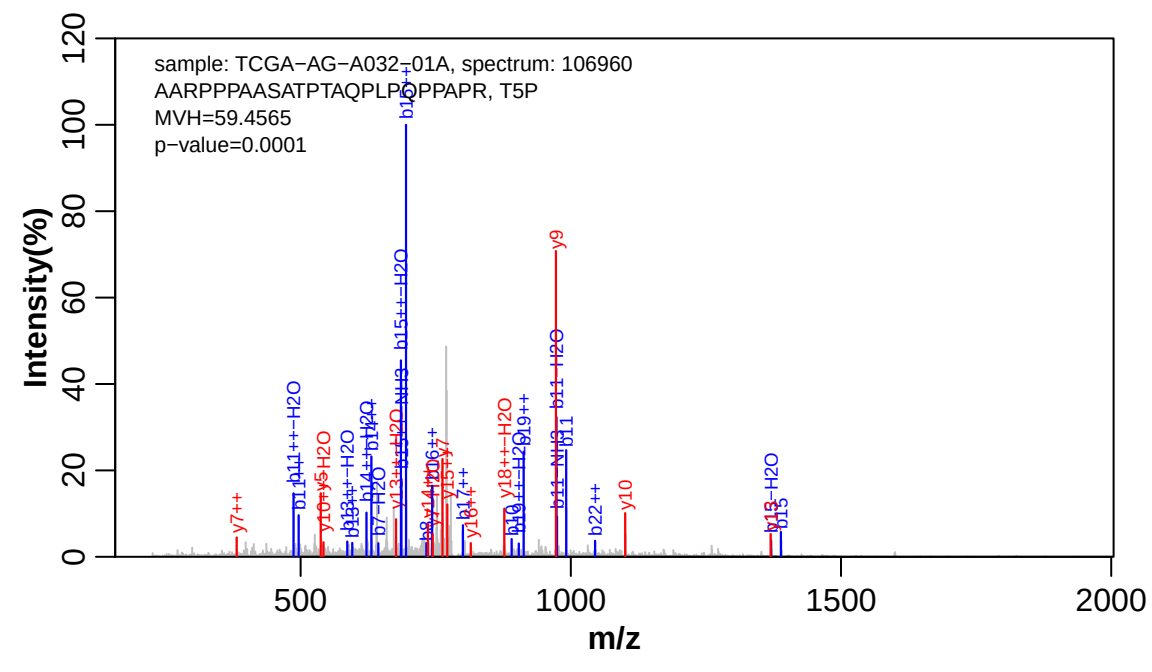

sample: TCGA−AG−A02X−01A, spectrum: 78188
WERPFEVKDTEEEDFHVDQATTVK, V20A
MVH=81.5592
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b14++
y10++
b5−H2O
y16++
b16++
b10+++
y9++
b9++

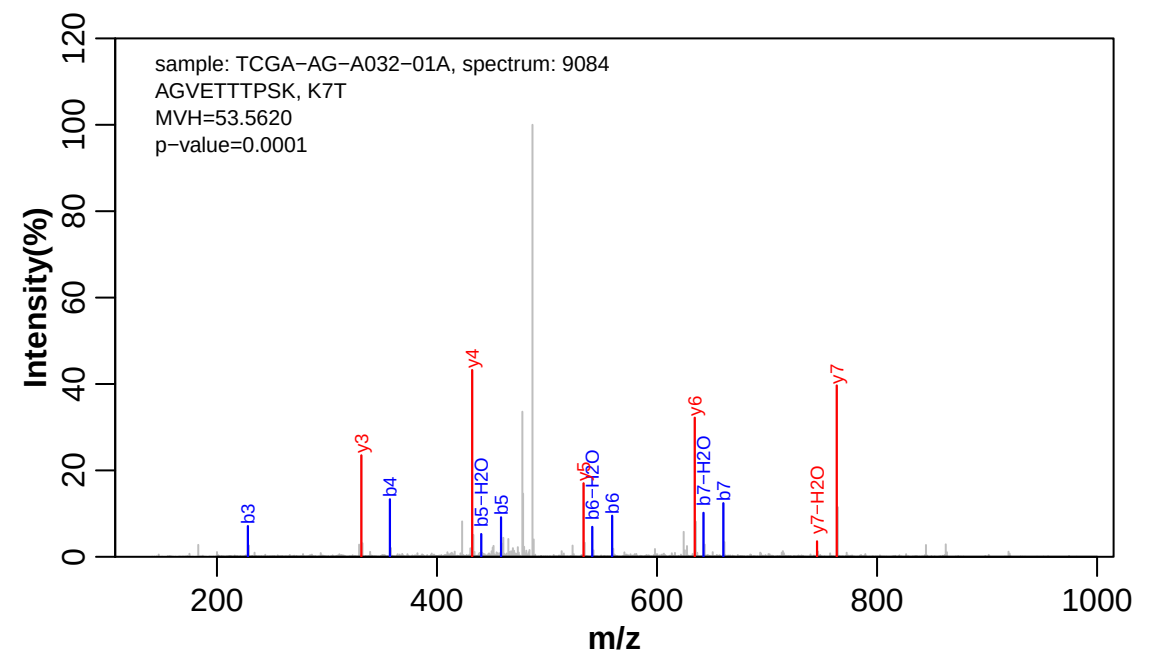

sample: TCGA−AG−A02X−01A, spectrum: 41851
YVSLLYTNYEAGKDDYVK, I2V
MVH=26.2766
p−value=0.0001
b16++−N
y13++
b7
y5−H2O
y12++
y15++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

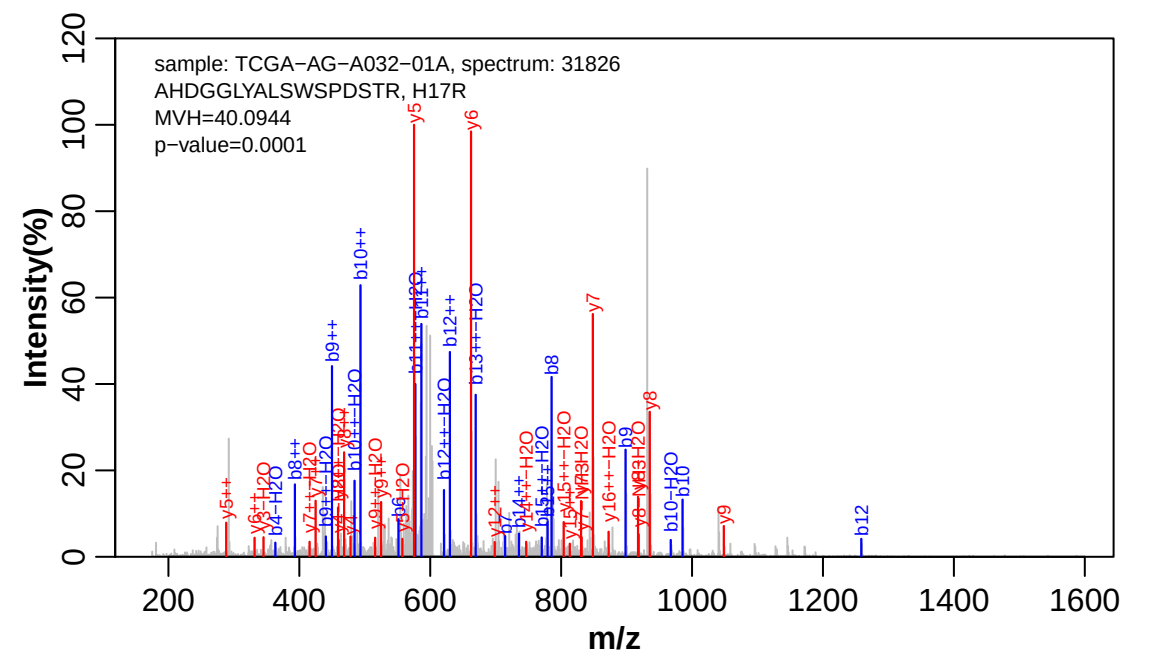

sample: TCGA−AG−A032−01A, spectrum: 50557
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=43.3306
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b18++−H2O
b28++
b25++
b27++−H2O
b28++−H2O
b18++−NH3
b9
b27++
b13−H2O
b10++−NH3
b10++−H2O
b9++−H2O
b16++−H2O
b8−NH3
b8
b7
y6
y5
b6
y4
b15
y13−H2O

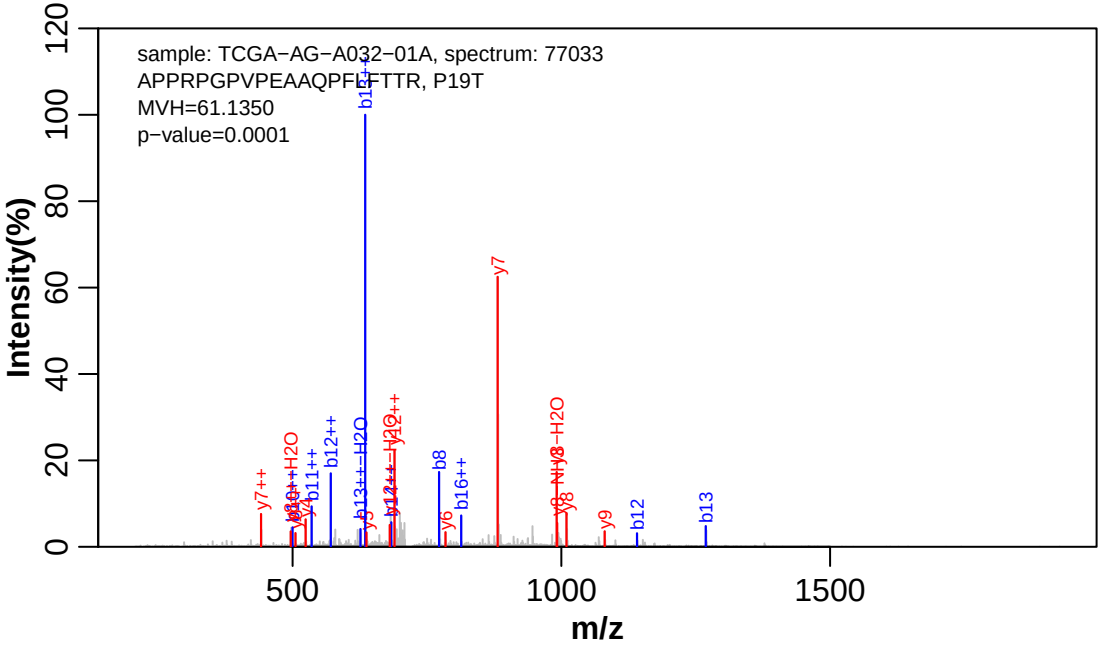

sample: TCGA−AG−A032−01A, spectrum: 64582
AAAPAPVSEAVSR, C12S
MVH=66.3503
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
y8
y10

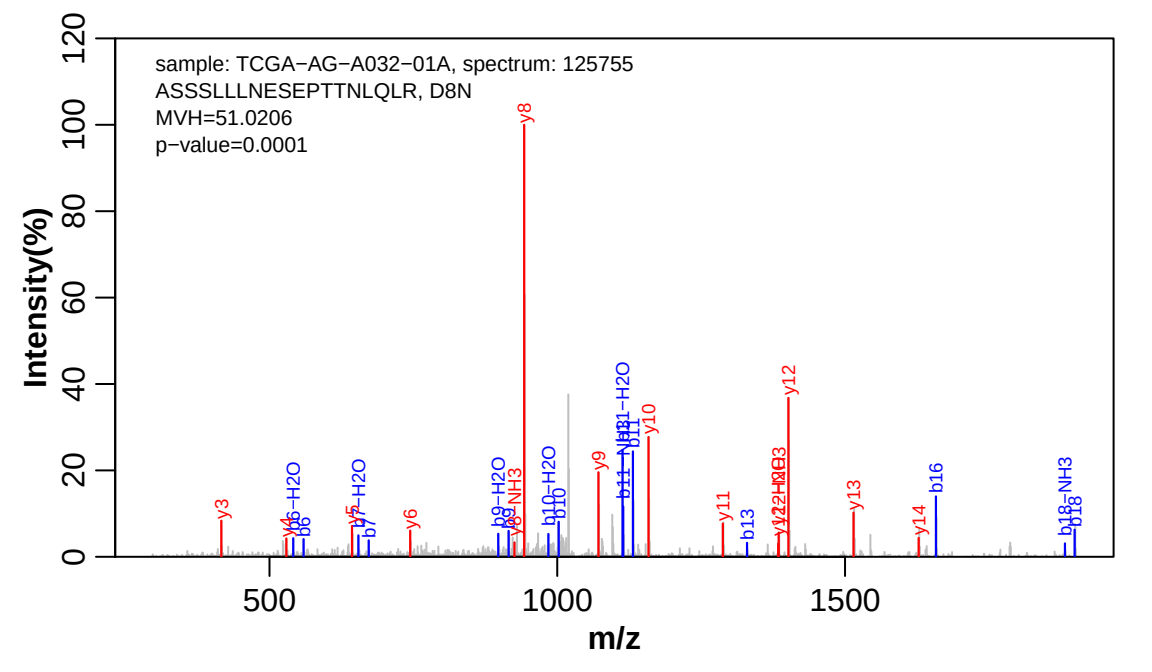

sample: TCGA−AG−A032−01A, spectrum: 41539
AAPSVTLFPPSSEELQANK, T2A
MVH=51.9578
p−value=0.0001
y11
y12
y14
b7−H2O
b7
b8−NH3
b8
b8−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

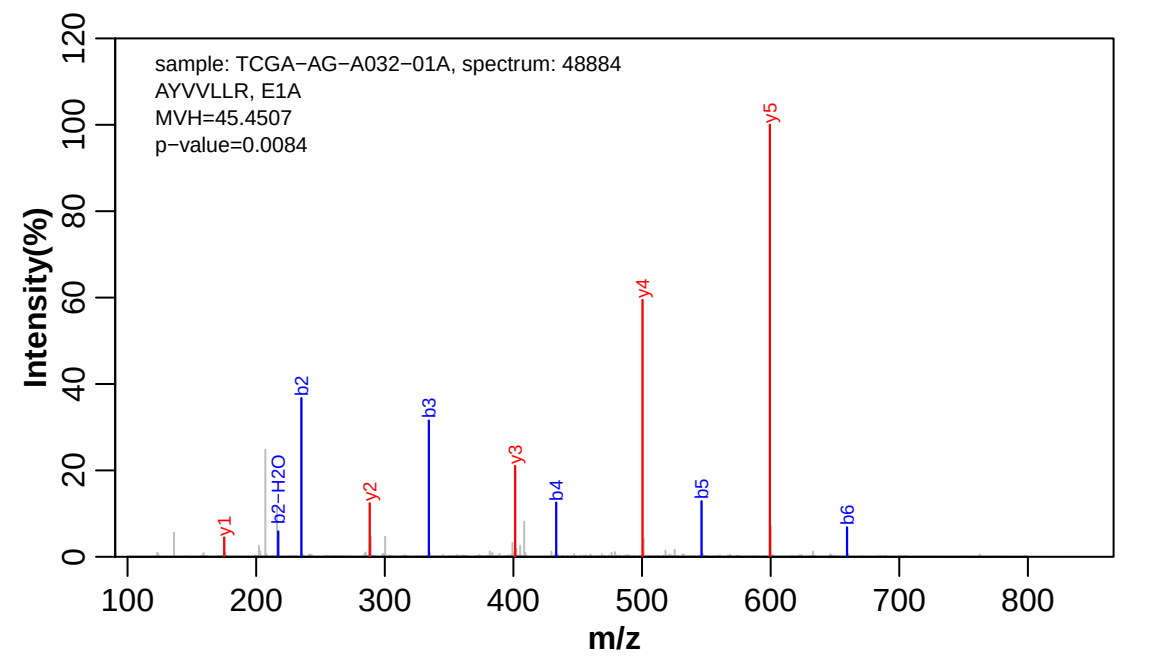

sample: TCGA−AG−A032−01A, spectrum: 106960
AARPPPAASATPTAQPLPPPAPR, T5P
MVH=59.4565
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y7++
b11++−H2O
b1
y10+−H2O
b13++−H2O
b14++−H2O
b7−H2O
b15++−H2O
b15++−NH3
b14++
y13++−H2O
y13++
b8−H2O
y14++
b6++
y7
b17++
y18++
b18++−H2O
b19++−H2O
b19++
y9
b11−NH3
b11−H2O
b11
b22++
y10
b15−H2O
b15

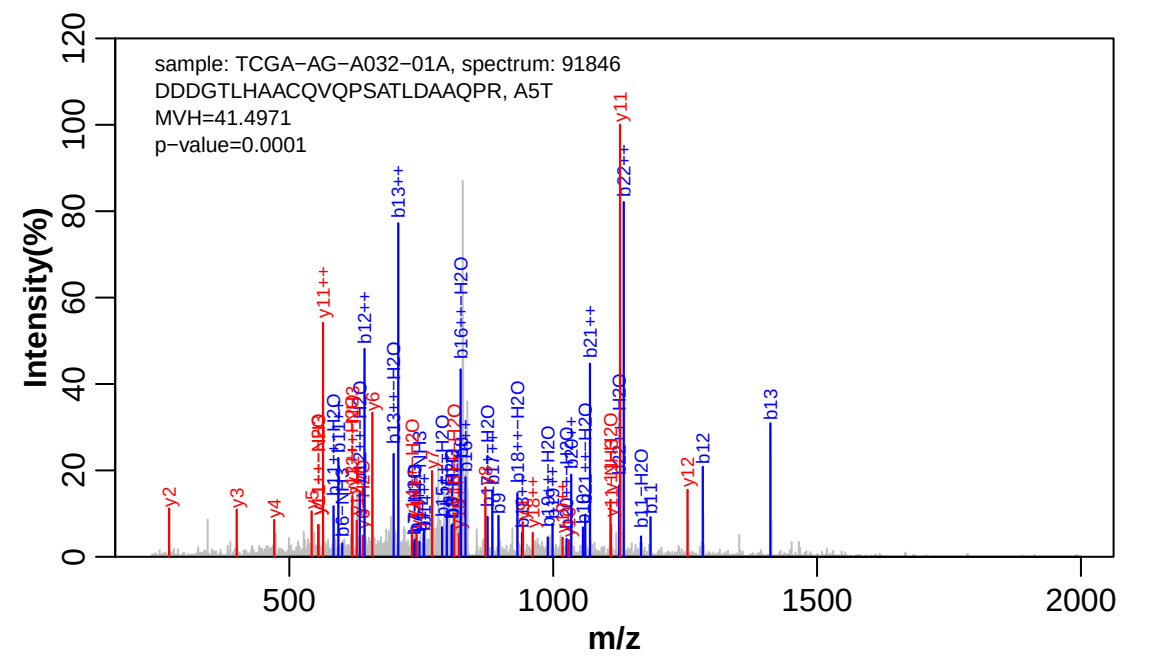

sample: TCGA−AG−A032−01A, spectrum: 9084
AGVETTTPSK, K7T
MVH=53.5620
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7−H2O
y7

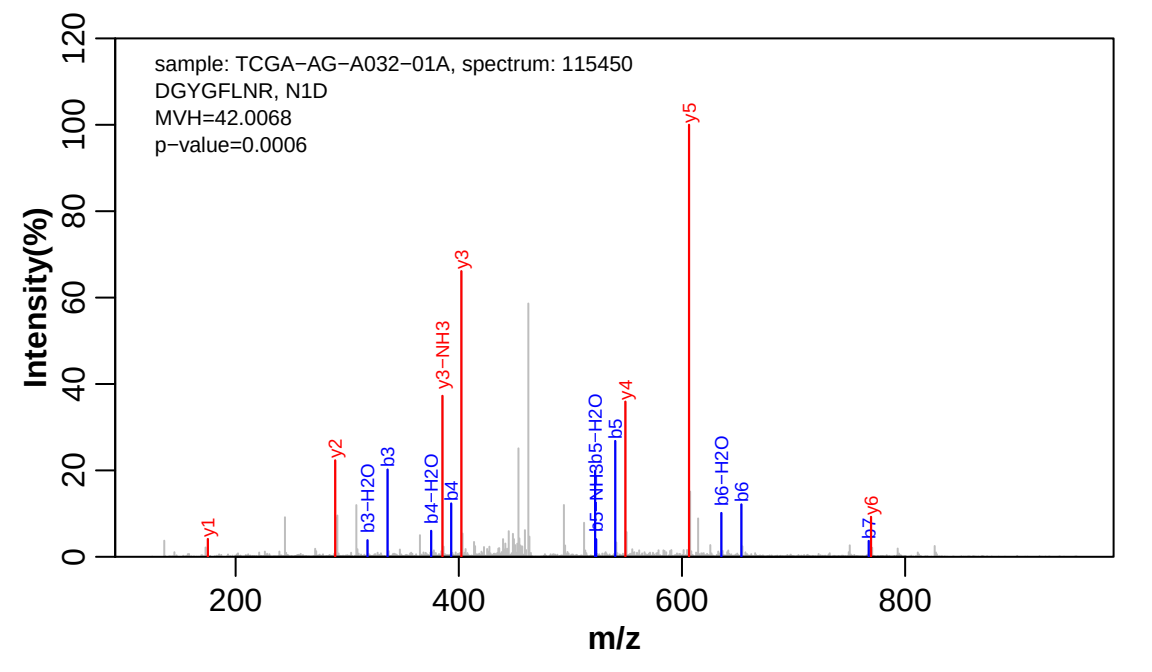

sample: TCGA−AG−A032−01A, spectrum: 31826
AHDGGLYALSWSPDSTR, H17R
MVH=40.0944
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y7
y8
y9
b12
b10++
b12++
b13++−H2O
b8
b9++
b10++−H2O
b12++−H2O
y5++
b4−H2O
b8++
y16++−H2O
b10−H2O
b10
y12++
b12++−H2O

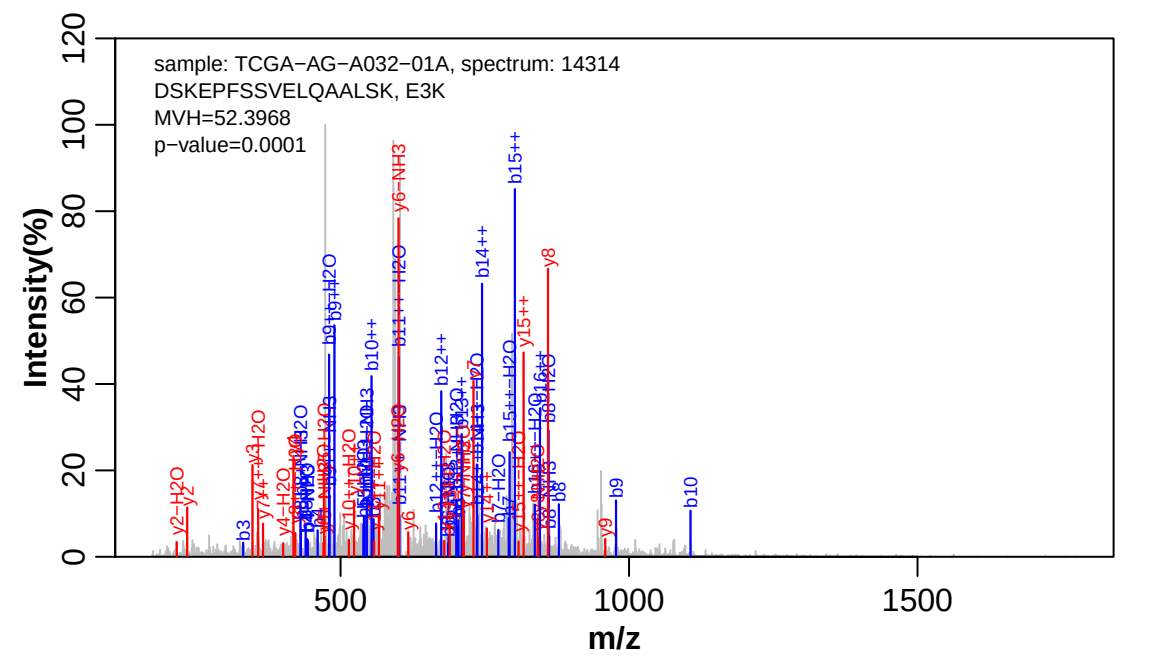

sample: TCGA−AG−A032−01A, spectrum: 77033
APPRPGPVPEAAQPFLFTTR, P19T
MVH=61.1350
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b15++
y7
y7++
b12++
b11++
b8
b16++
y6
y9
b12
b13

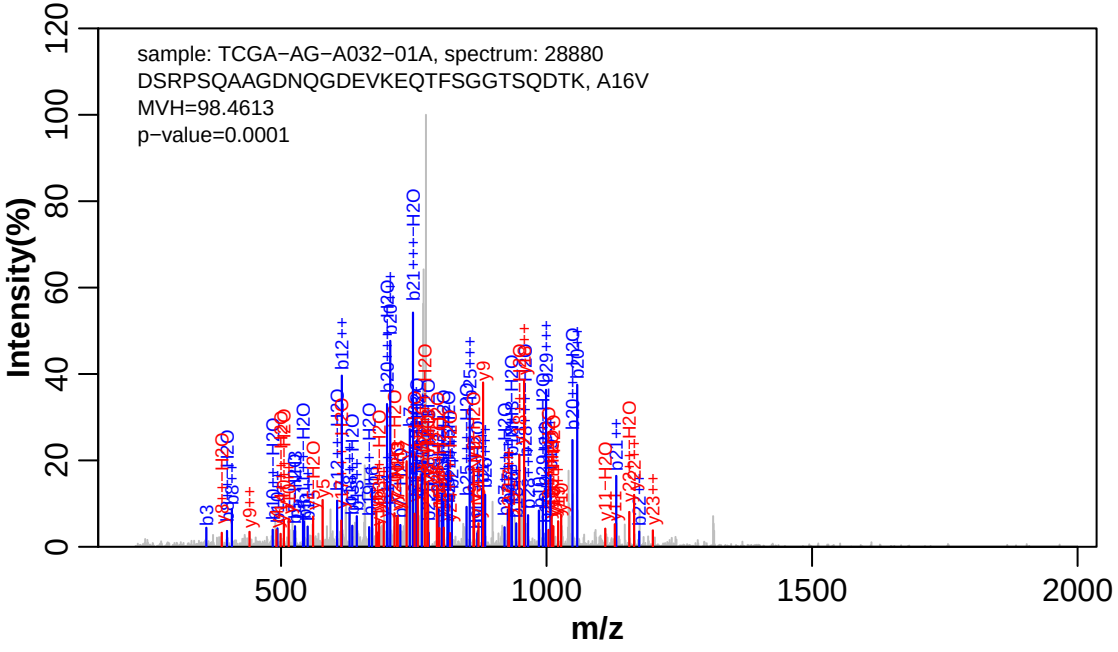

sample: TCGA−AG−A032−01A, spectrum: 125755
ASSSLLLNESEPTTNLQLR, D8N
MVH=51.0206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y8
y3
y6−H2O
y5−H2O
y6
b9−H2O
b10−H2O
y9
y10
y11
b13
y12
y13
y14
b16
b18−NH3

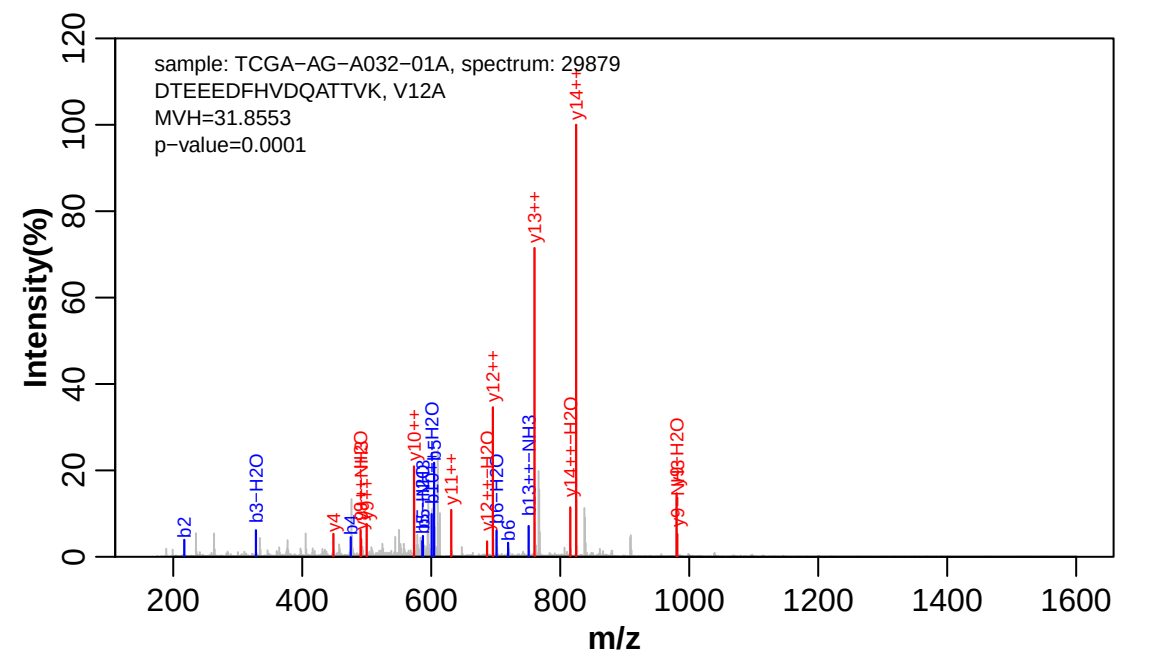

sample: TCGA−AG−A032−01A, spectrum: 48884
AYVVLLR, E1A
MVH=45.4507
p−value=0.0084
Intensity(%)
0
20
40
60
80
100
120
m/z
100
200
300
400
500
600
700
800
y1
b2−H2O
b2
y2
b3
y3
b4
y4
b5
y5
b6

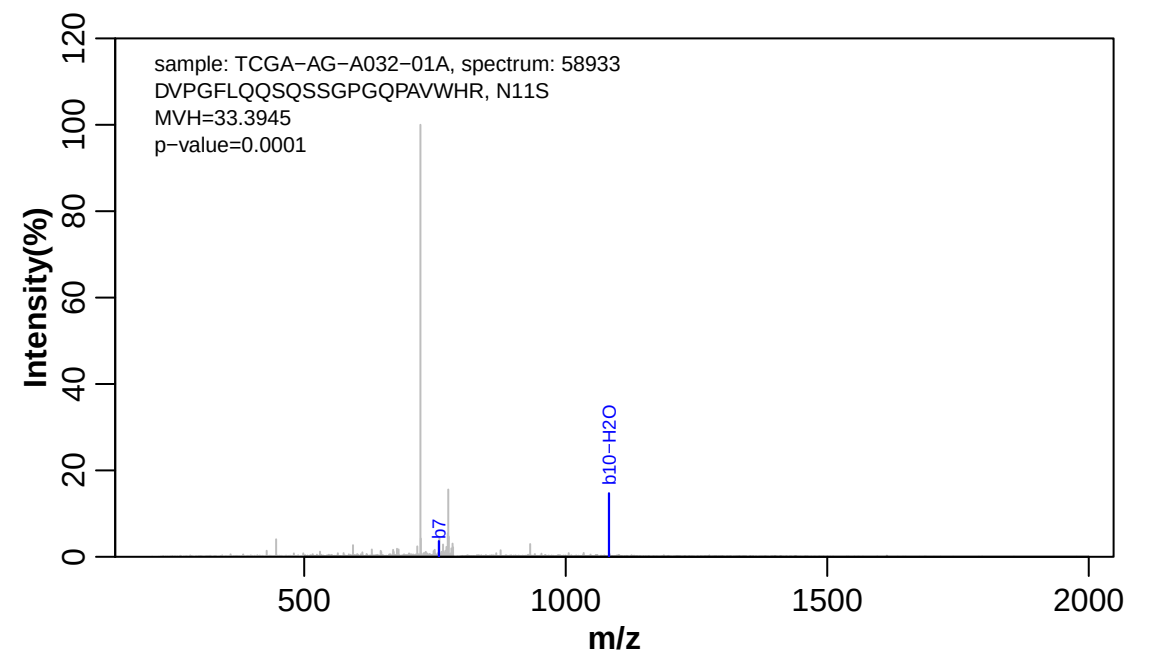

sample: TCGA−AG−A032−01A, spectrum: 91846
DDDGTLHAACQVQPSATLDAAQPR, A5T
MVH=41.4971
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y4
y5
y11++
b11+−H2O
b12++
y6
b13++
b13++−H2O
b16++−H2O
b21++
y11
b22++
b13
y12
b12
b11
b11−H2O

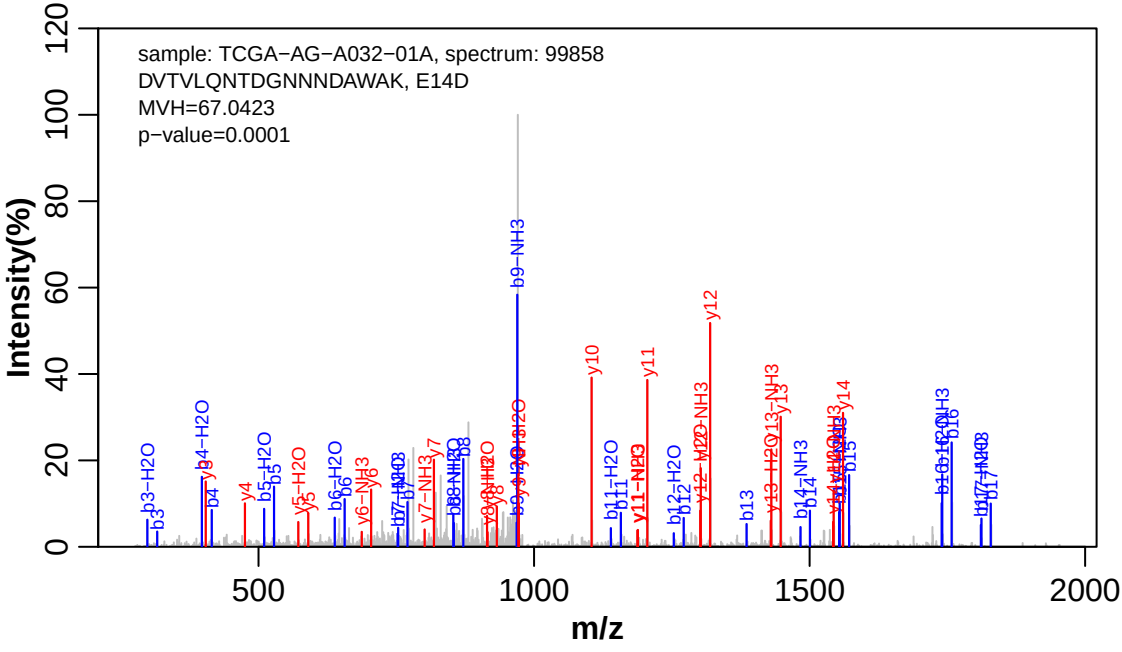

sample: TCGA−AG−A032−01A, spectrum: 115450
DGYGFLNR, N1D
MVH=42.0068
p−value=0.0006
Intensity(%)
m/z
y1
y2
b3−H2O
b3
b4−H2O
b4
y3−NH3
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

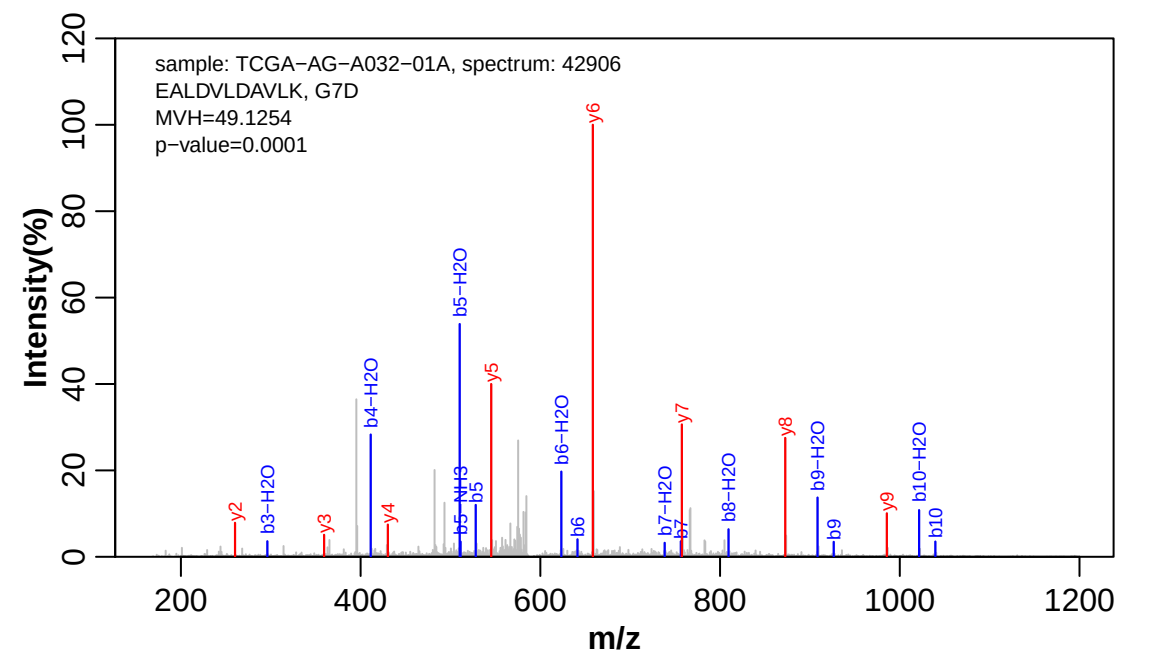

sample: TCGA−AG−A032−01A, spectrum: 14314
DSKEPFSSVELQAALSK, E3K
MVH=52.3968
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y2−H2O
y2
b3
y3
y4−H2O
b9
b9−H2O
b10++
b11++−H2O
y6−NH3
b12++
b14++
b15++
y8
y15++
b15++−H2O
b10
y9
b7−H2O

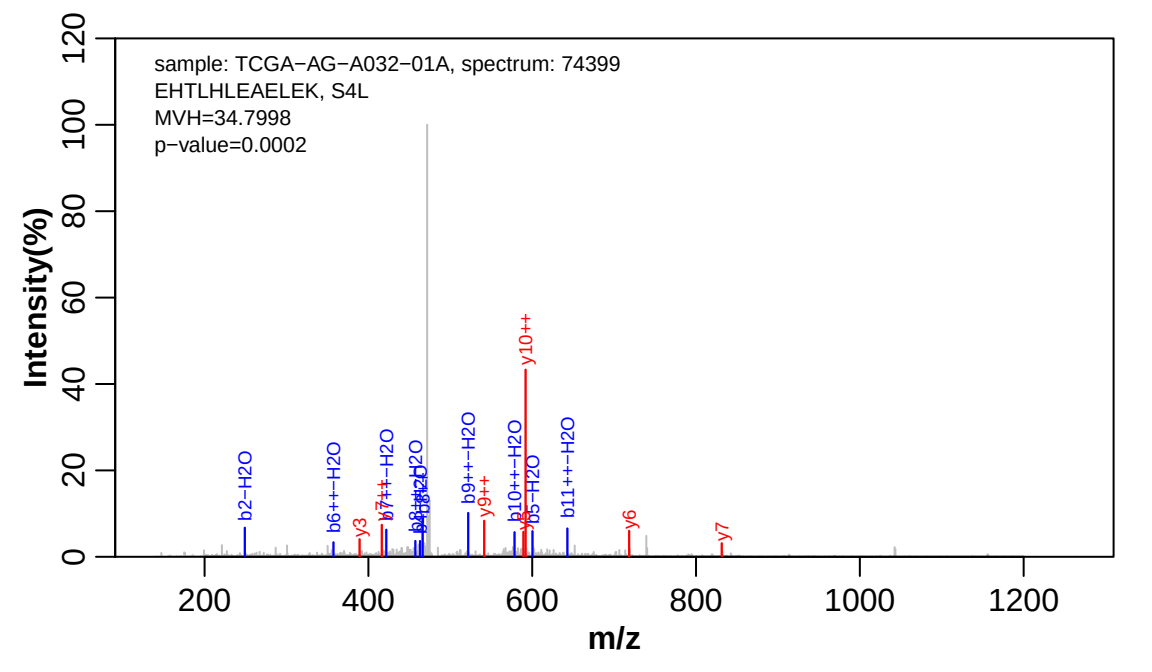

sample: TCGA−AG−A032−01A, spectrum: 28880
DSRPSQAAGDNQGDEVKEQTFSGGTSQDTK, A16V
MVH=98.4613
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

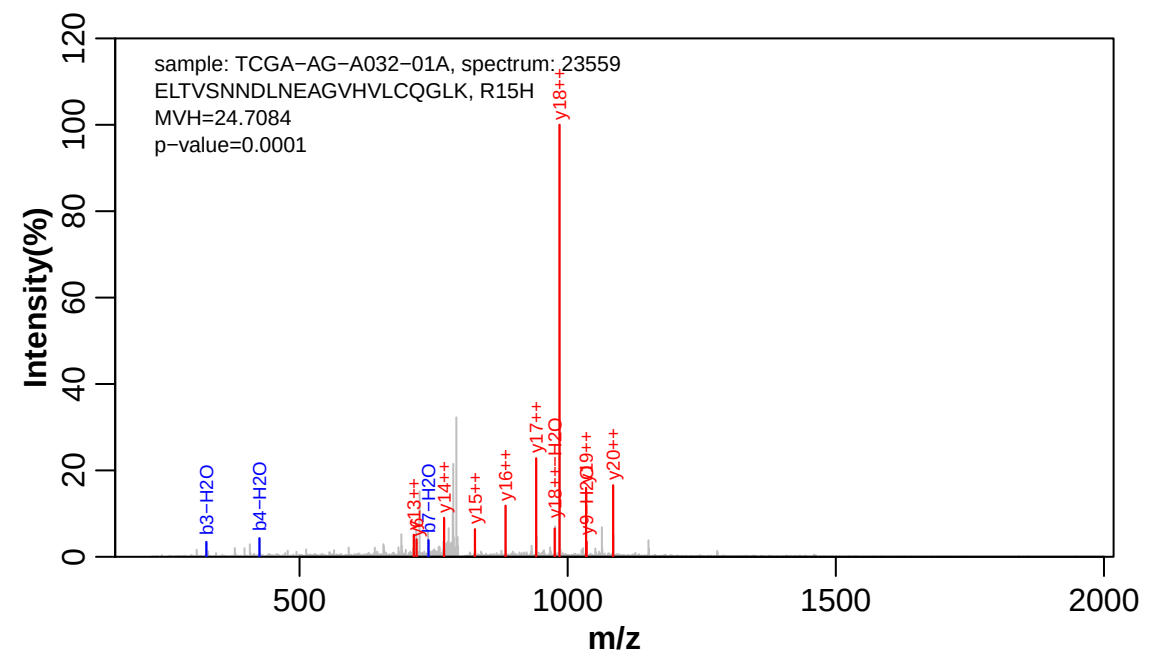

sample: TCGA−AG−A032−01A, spectrum: 29879
DTEEEDFHVDQATTVK, V12A
MVH=31.8553
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b2
b3−H2O
y4
y10++
y11++
y12++
y12++−H2O
b6−H2O
b6
b13++−NH3
y13++
y14++−H2O
y14++

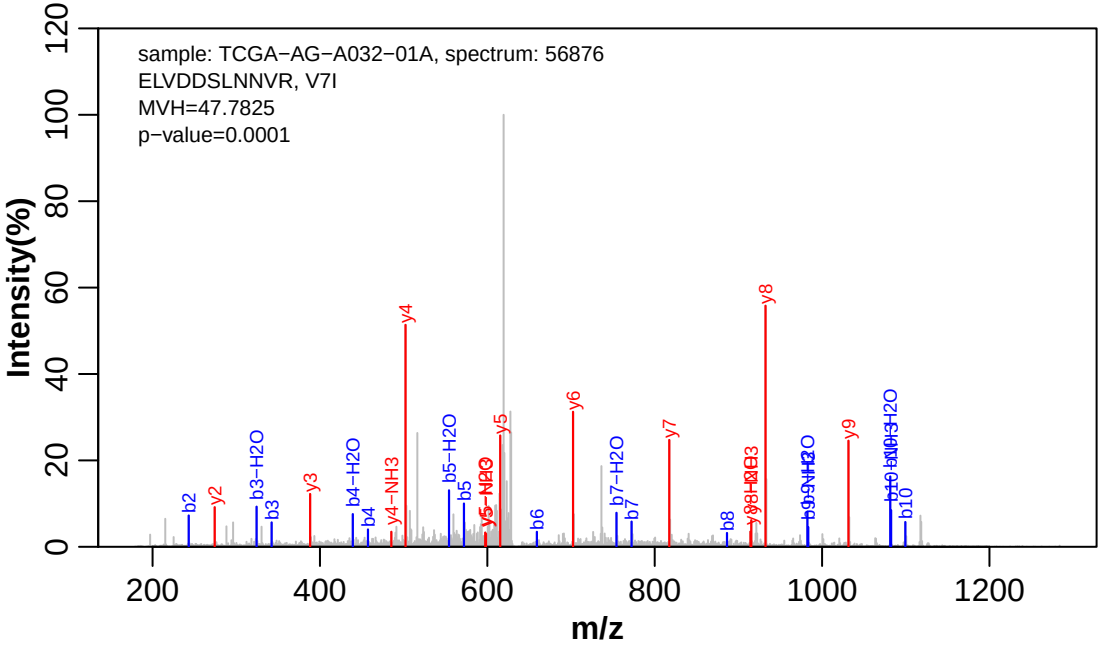

sample: TCGA−AG−A032−01A, spectrum: 58933
DVPGFLQQSQSSGPGQPAVWHR, N11S
MVH=33.3945
p−value=0.0001
b10−H2O
b7
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

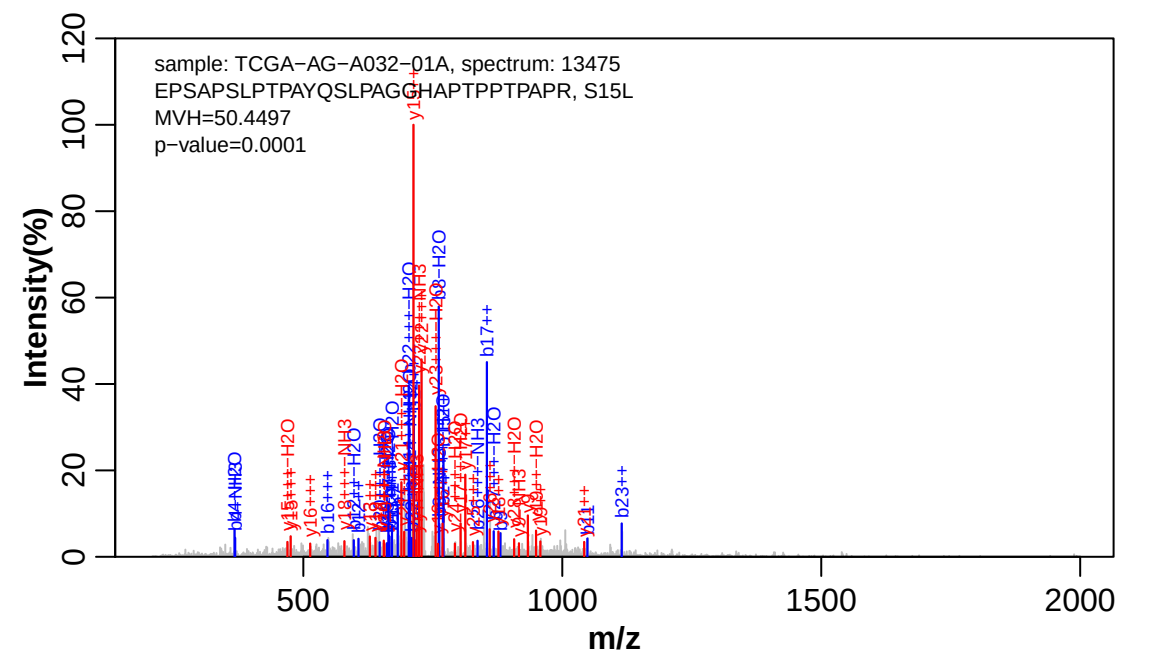

sample: TCGA−AG−A032−01A, spectrum: 99858
DVTVLQNTDGNNNDAWAK, E14D
MVH=67.0423
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b9−NH3
y10
y12
y11
y13
b3−H2O
b4−H2O
b5−H2O
b6−H2O
y5−H2O
b11−H2O
b12−H2O
b14−NH3
b16−H2O−NH3
y13−NH3
y14
b15
b16
b17−NH3
b17−H2O
b13
y4
y7
y7−NH3
b3
b4
b5
b6
y5
y6
y6−NH3
b7
b8
b8−NH3
b8−H2O
y8
y9
y9−NH3
y9−H2O
y11−NH3
y12−H2O−NH3

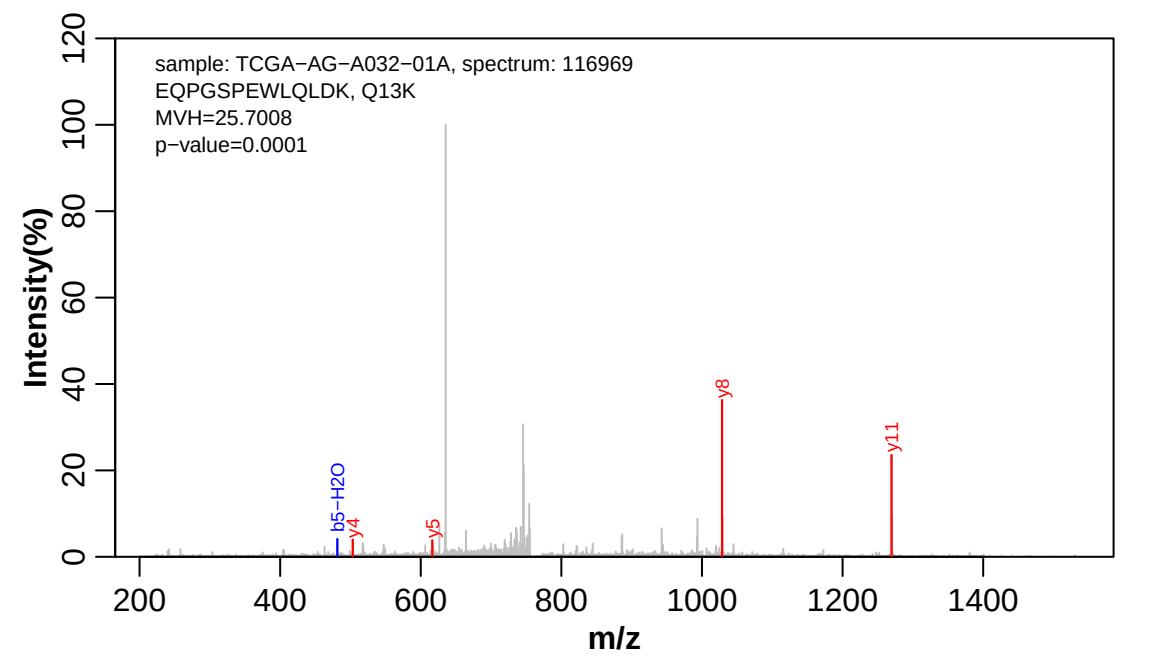

sample: TCGA−AG−A032−01A, spectrum: 42906
EALDVLDAVLK, G7D
MVH=49.1254
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
y4
b5−NH3
b5
b5−H2O
y5
b6
b6−H2O
y6
b7
b7−H2O
y7
b8−H2O
y8
b9
b9−H2O
y9
b10
b10−H2O

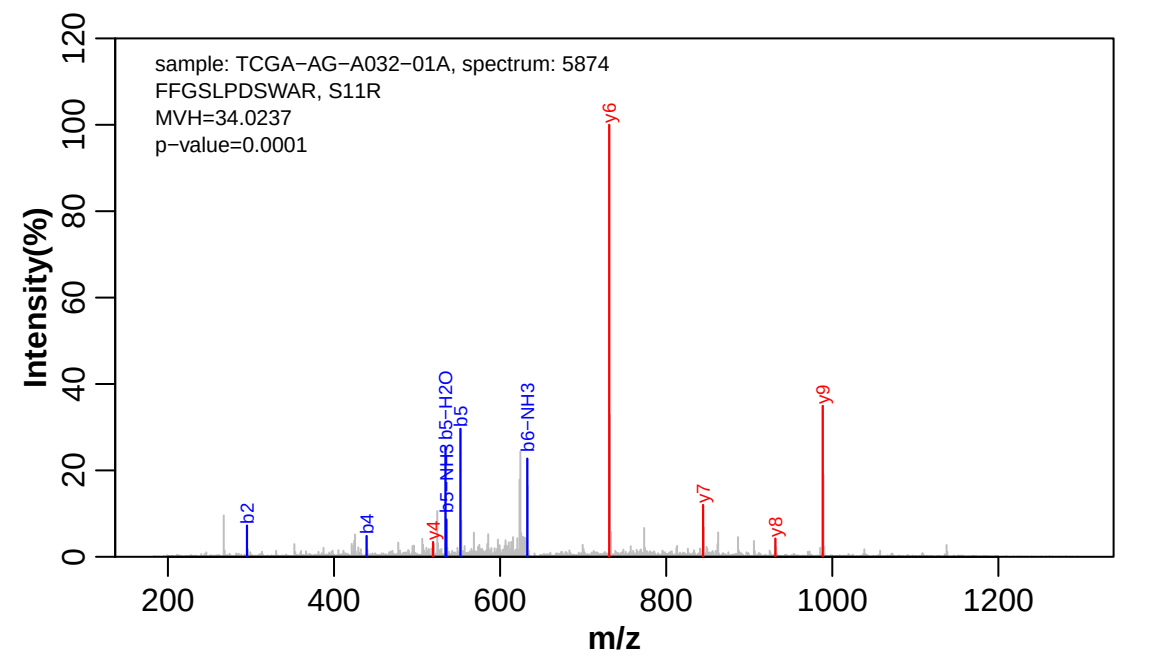

sample: TCGA−AG−A032−01A, spectrum: 74399
EHTLHLEAELEK, S4L
MVH=34.7998
p−value=0.0002
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2−H2O
b6++−H2O
y3
y7++
y7++−H2O
b9++−H2O
y9++
y10++
b10++−H2O
b5−H2O
b11++−H2O
y6
y7

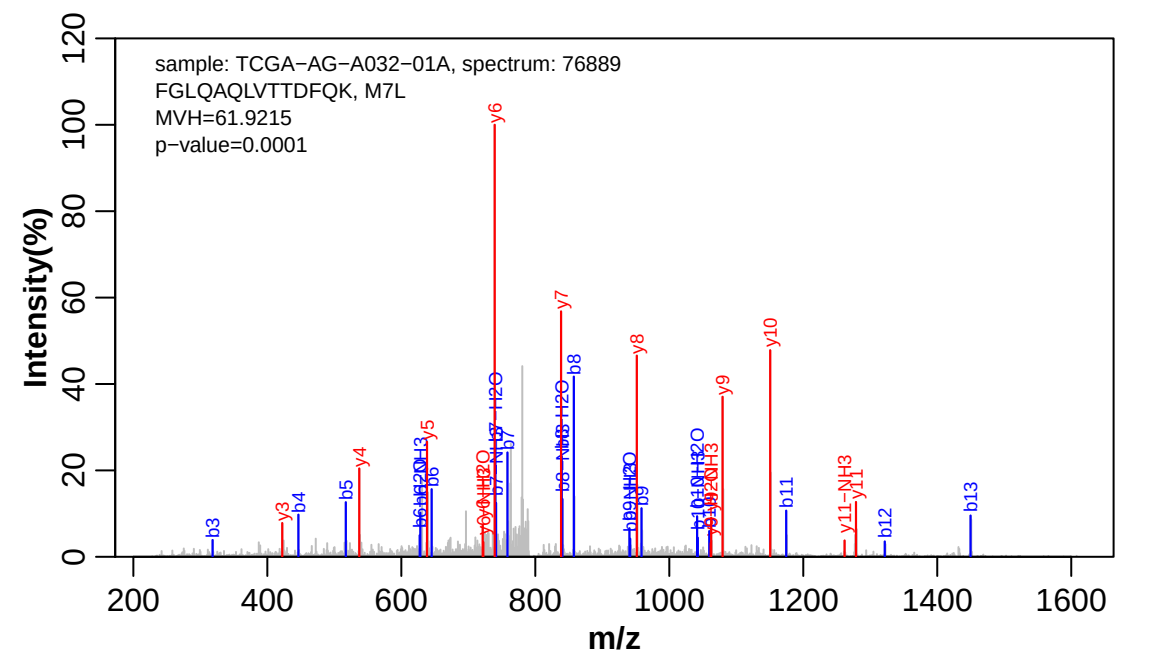

sample: TCGA−AG−A032−01A, spectrum: 23559
ELTVSNNDLNEAGVHVLCQGLK, R15H
MVH=24.7084
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b3−H2O
b4−H2O
y13++
b7−H2O
y14++
y15++
y16++
y17++
y18++−H2O
y18++
y9−H2O19++
y20++

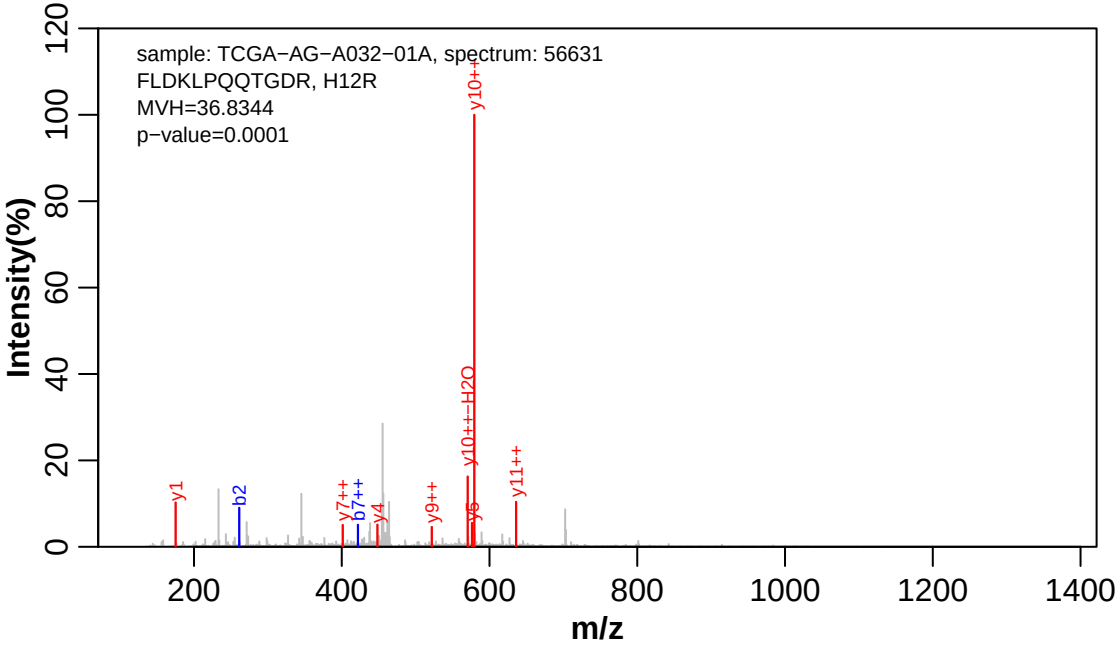

sample: TCGA−AG−A032−01A, spectrum: 56876
ELVDDSLNNVR, V7I
MVH=47.7825
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3−H2O
b3
y3
b4−H2O
b4
y4−NH3
y4
b5−H2O
b5
y5
b6
y6
b7−H2O
b7
y7
b8
y8
y9
b10
b10
b10

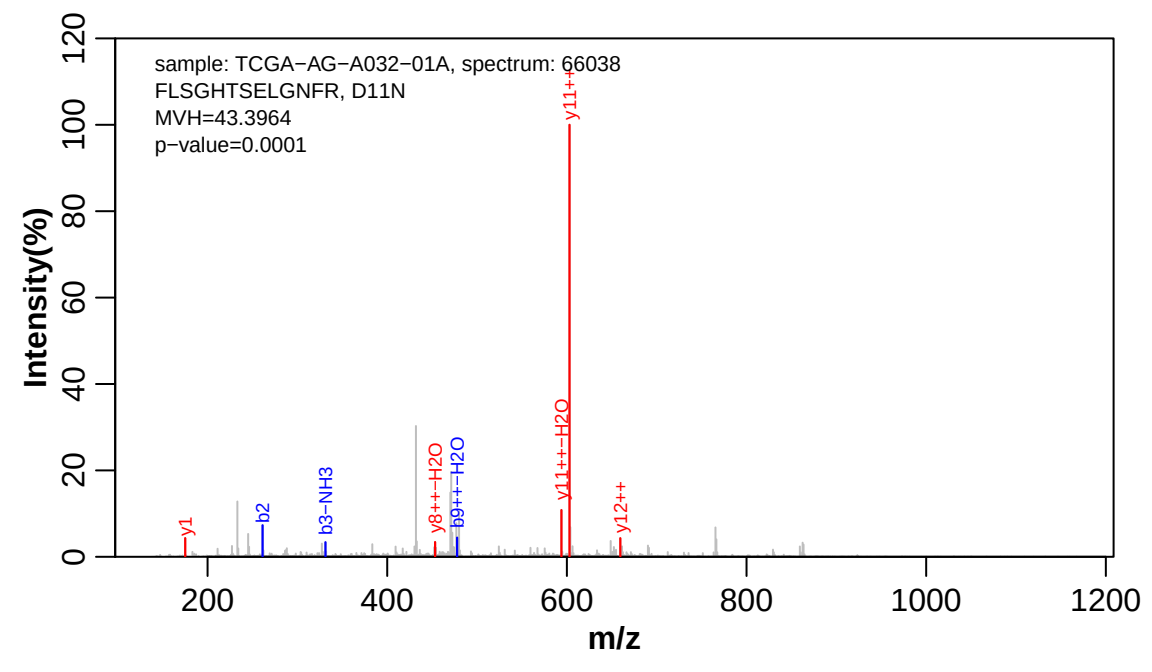

sample: TCGA−AG−A032−01A, spectrum: 13475
EPSAPSLPTPAYQSLPAGGHAPTPPTPAPR, S15L
MVH=50.4497
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y15++
b17++
b23++
y11++

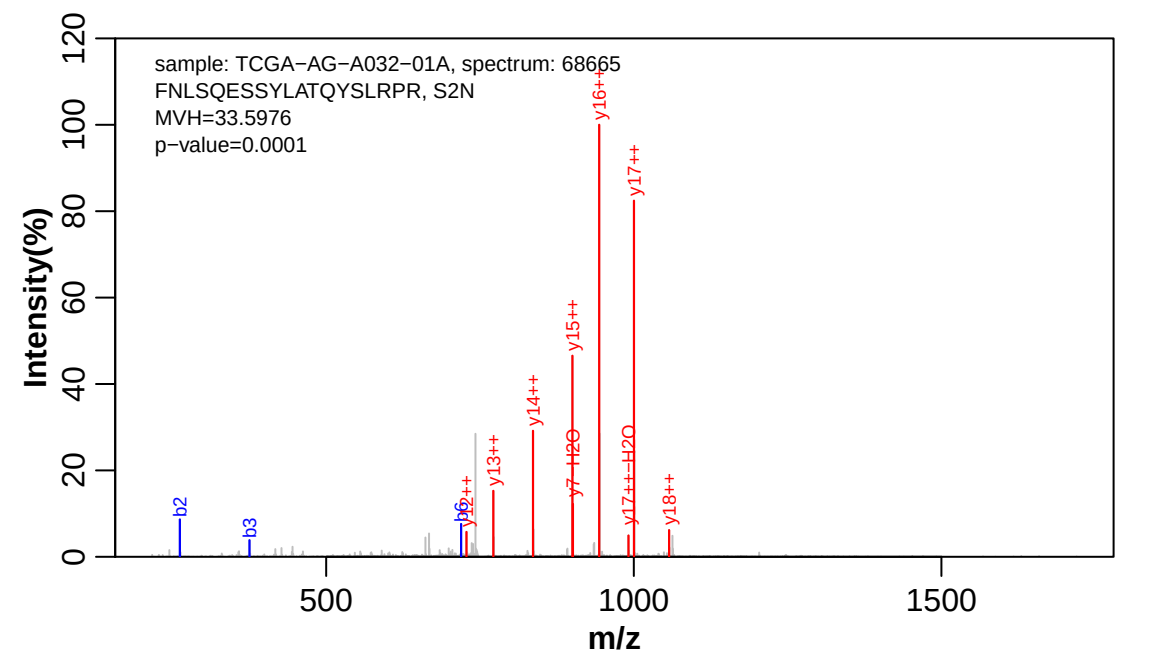

sample: TCGA−AG−A032−01A, spectrum: 116969
EQPGSPEWLQLDK, Q13K
MVH=25.7008
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z
b5−H2O
y4
y5
y8
y11

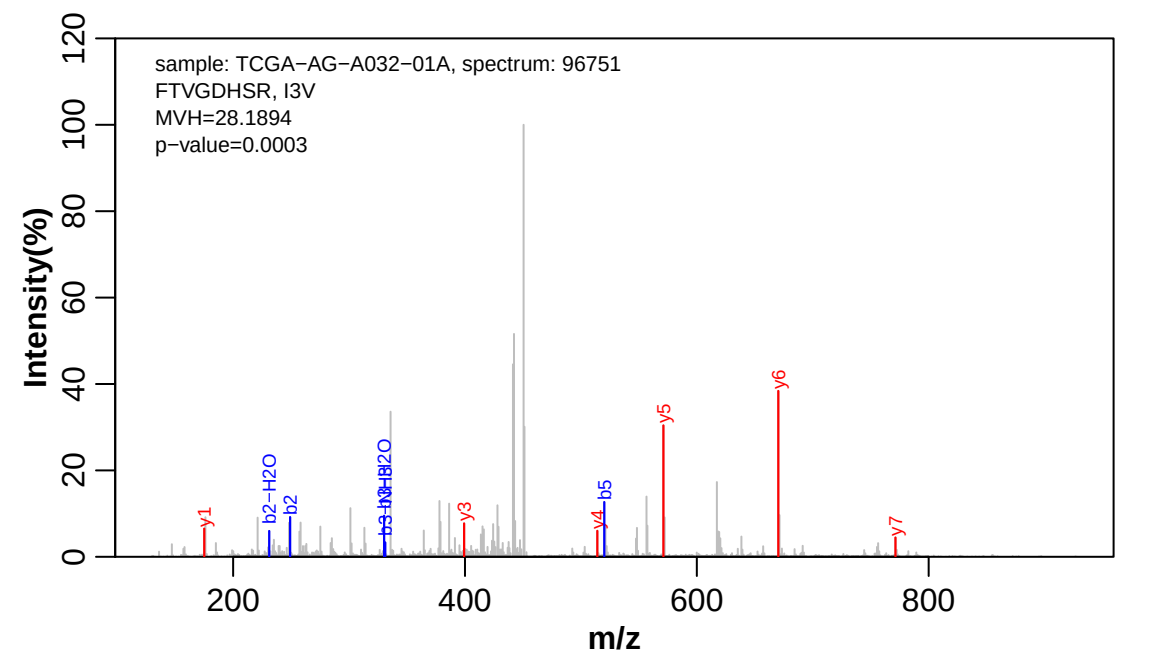

sample: TCGA−AG−A032−01A, spectrum: 5874
FFGSLPDSWAR, S11R
MVH=34.0237
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4
y4
b5−NH3
b5−H2O
b5
b6−NH3
y6
y7
y8
y9

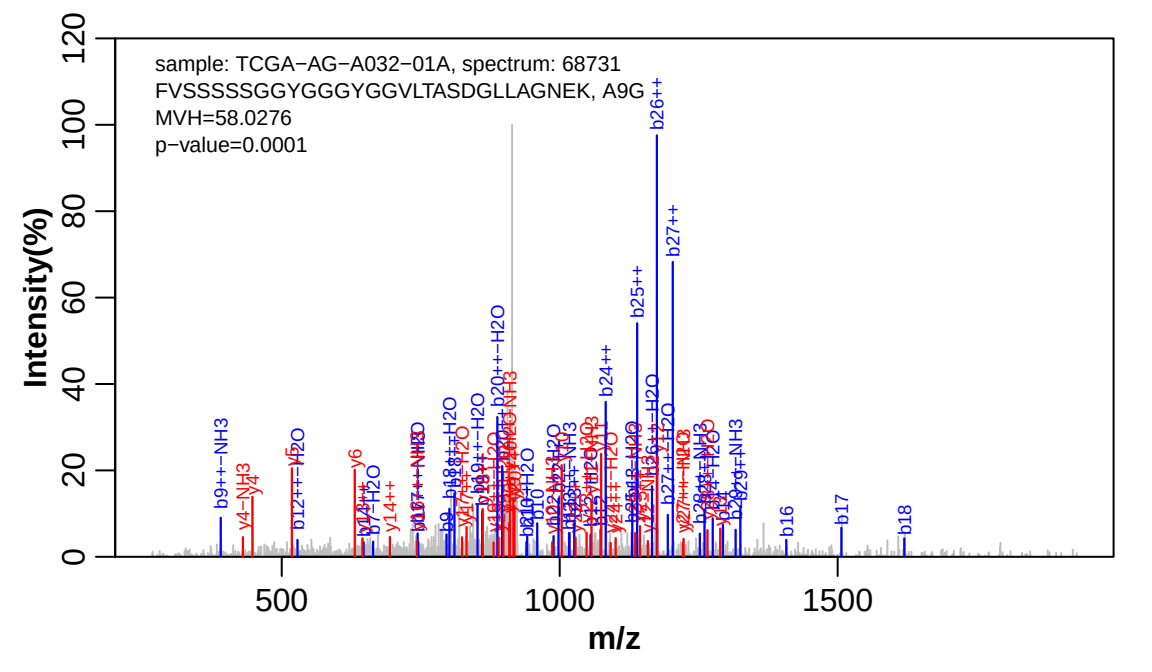

sample: TCGA−AG−A032−01A, spectrum: 76889
FGLQAQLVTTDFQK, M7L
MVH=61.9215
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
b5
y4
y5
y6
b7
b8
y7
y8
y9
y10
b11
y11−NH3
y11
b12
b13

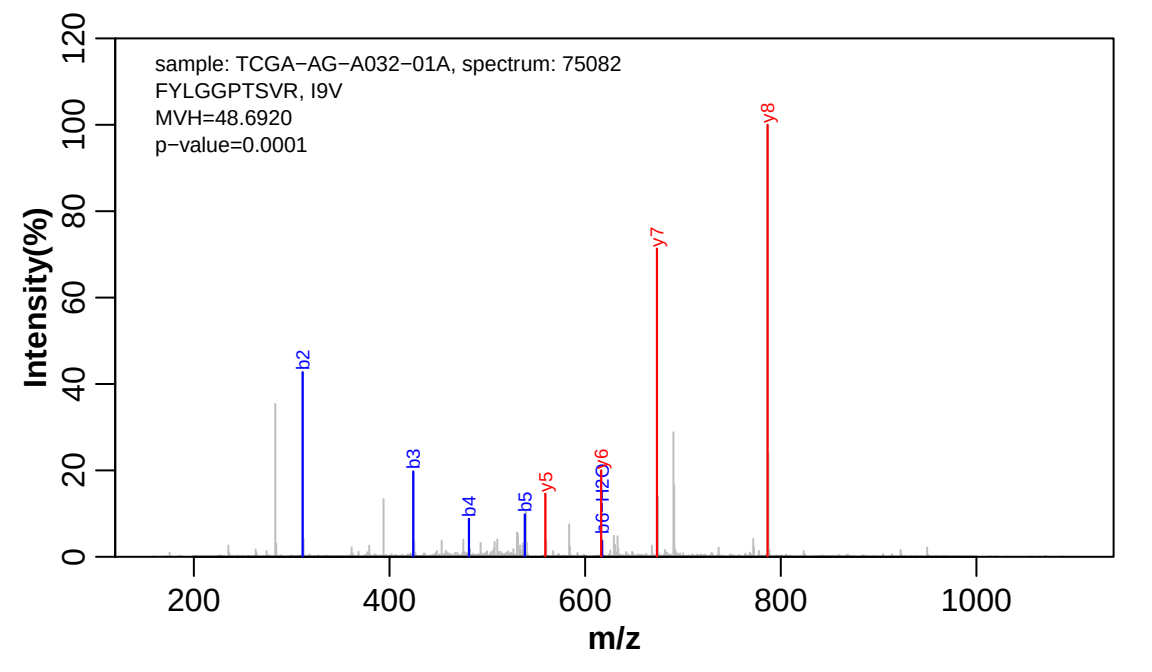

sample: TCGA−AG−A032−01A, spectrum: 56631
FLDKLPQQTGDR, H12R
MVH=36.8344
p−value=0.0001
Intensity(%)
m/z
y1
b2
y7++
b7++
y4
y9++
y10++−H2O
y6
y10++
y11++

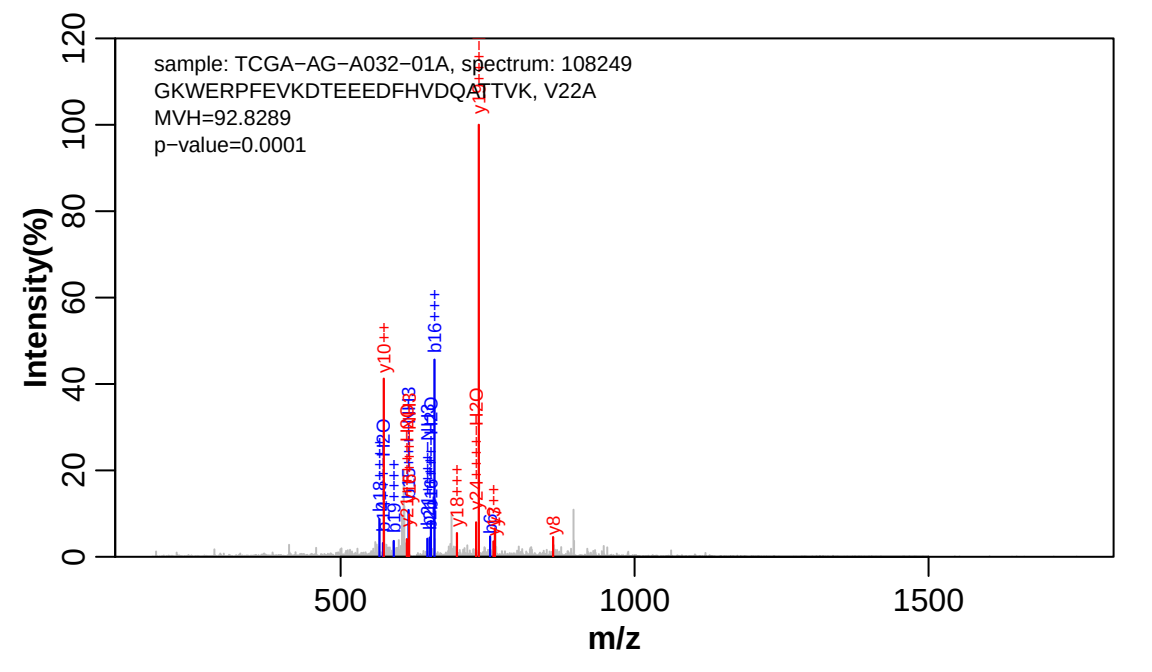

sample: TCGA−AG−A032−01A, spectrum: 66038
FLSGHTSELGNFR, D11N
MVH=43.3964
p−value=0.0001
y11++
y11++−H2O
y8++−H2O
b9++−H2O
b3−NH3
b2
y1
y12++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z

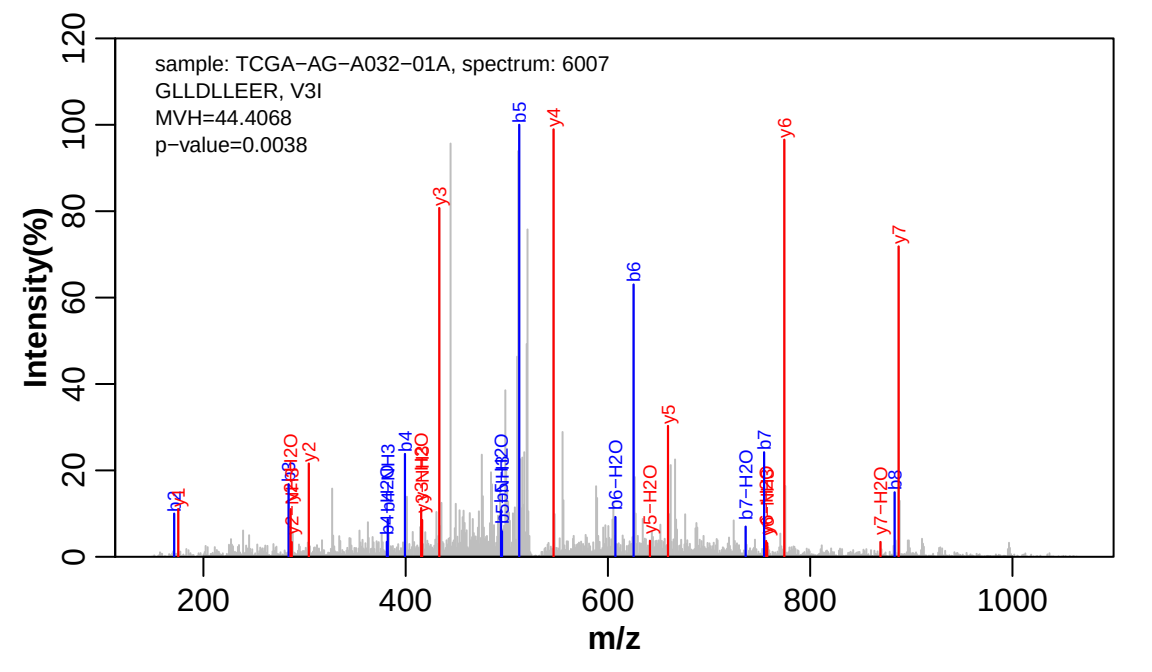

sample: TCGA−AG−A032−01A, spectrum: 68665
FNLSQESSYLATQYSLRPR, S2N
MVH=33.5976
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
b6
y6++
y13++
y14++
y7−H2O
y15++
y16++
y17++
y17++−H2O
y18++

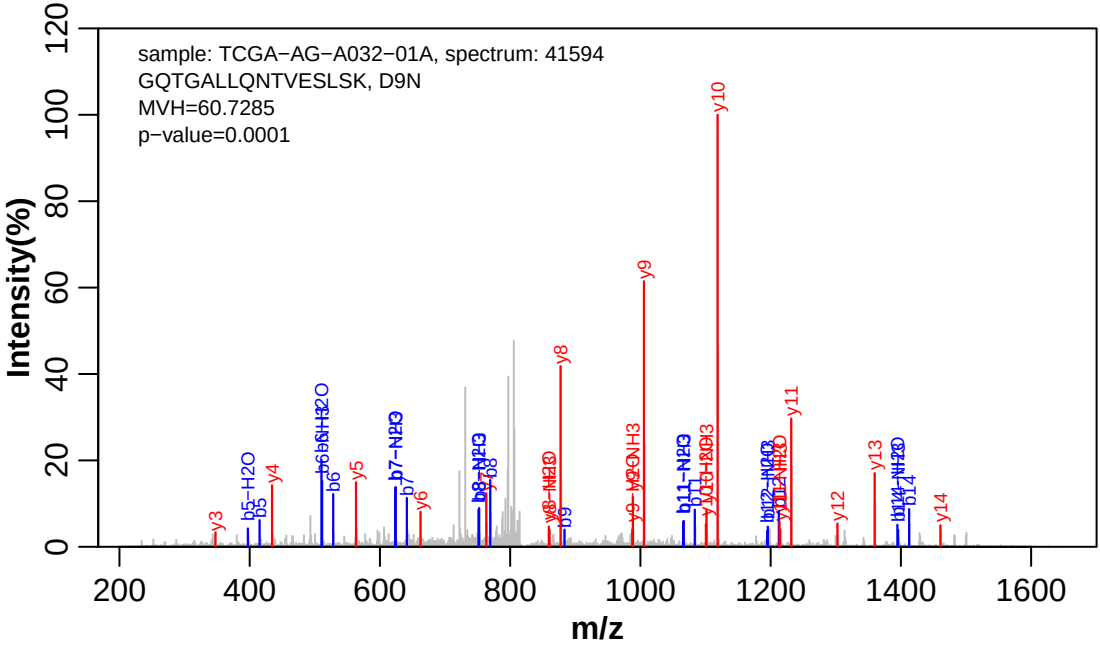

sample: TCGA−AG−A032−01A, spectrum: 96751
FTVGDHSR, I3V
MVH=28.1894
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
y3
y4
b5
y5
y6
y7

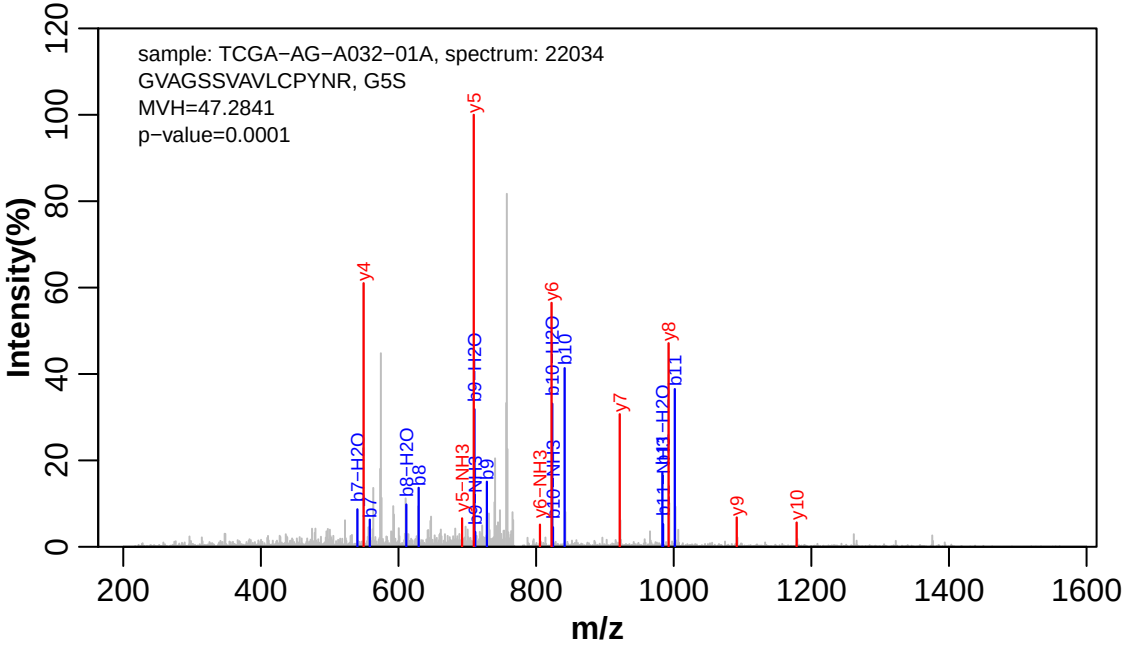

sample: TCGA−AG−A032−01A, spectrum: 68731
FVSSSSSGGYGGGYGGVLTASDGLLAGNEK, A9G
MVH=58.0276
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b26++
b27++
b25++
b24++
b9++−NH3
y4−NH3
y4
b12++−H2O
y6
y14++
b16
b17
b18

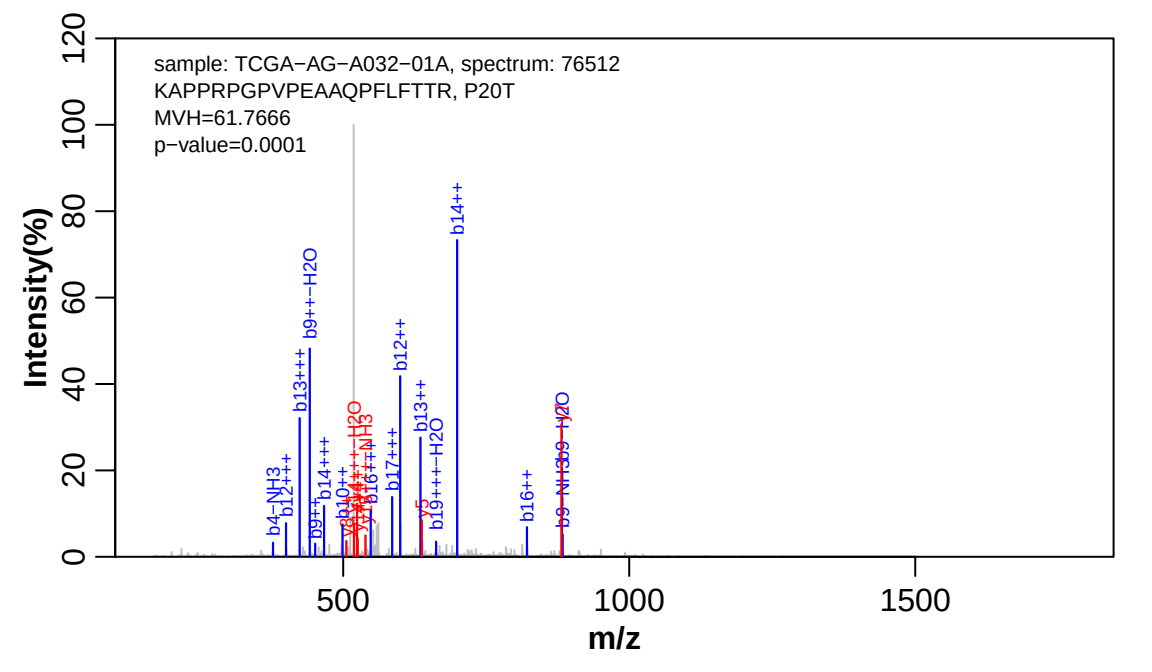

sample: TCGA−AG−A032−01A, spectrum: 75082
FYLGGPTSVR, I9V
MVH=48.6920
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
b4
b5
y5
b6−H2O
y6
y7
y8

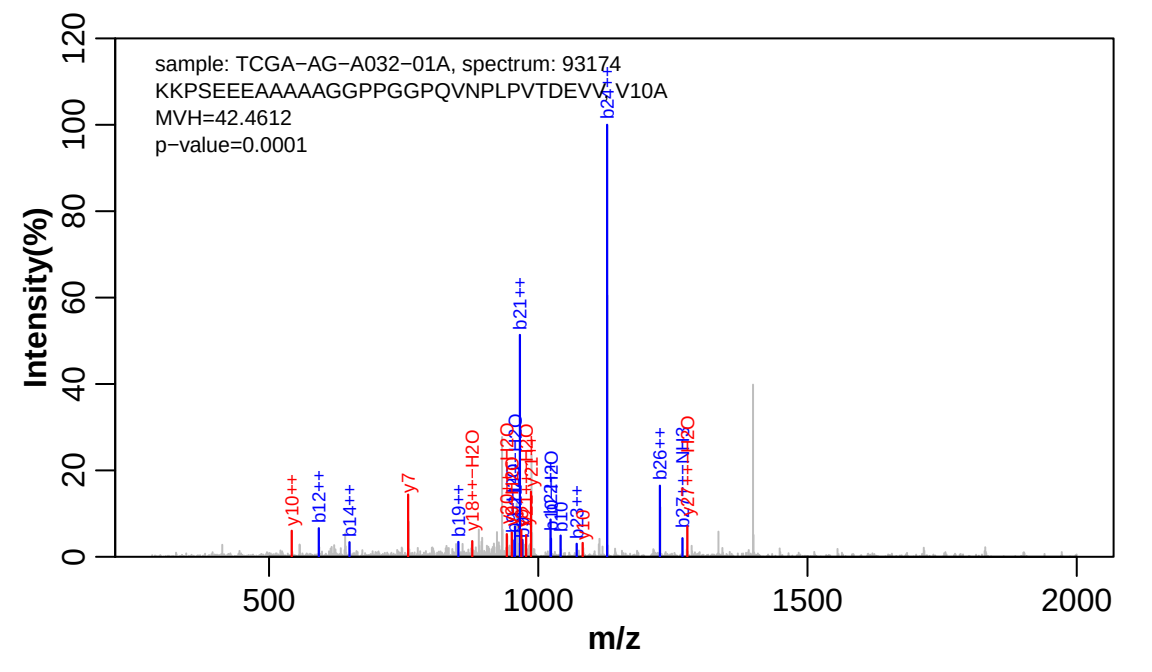

sample: TCGA−AG−A032−01A, spectrum: 108249
GKWERPFEVKDTEEEDFHVDQATTVK, V22A
MVH=92.8289
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10++
b16+++
y18+++
y24++++ H2O
y8

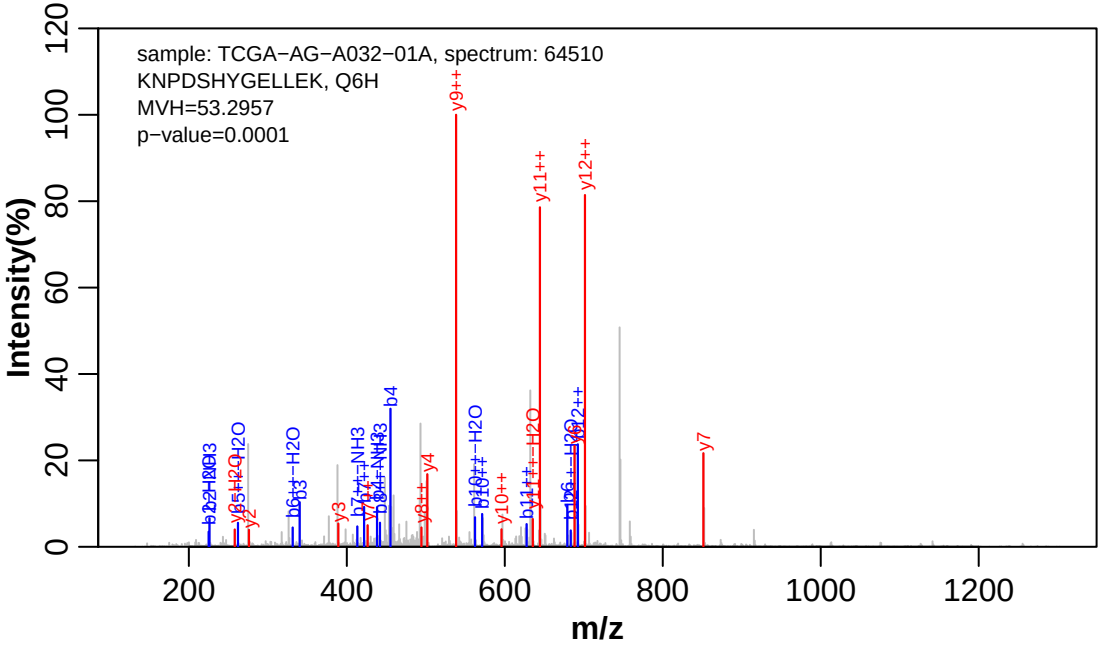

sample: TCGA−AG−A032−01A, spectrum: 6007
GLLDLLEER, V3I
MVH=44.4068
p−value=0.0038
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
y2
b4
y3
b5
y4
b6
y5
b7
y6
b8
y7
b6−H2O
y5−H2O
b7−H2O
y7−H2O

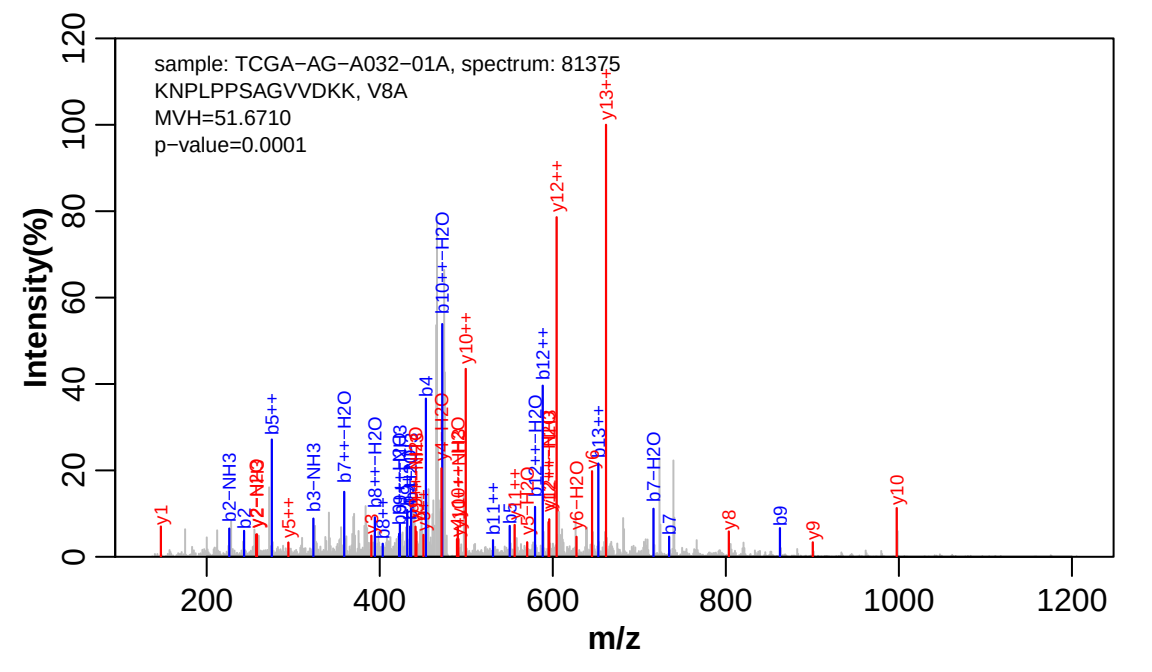

sample: TCGA−AG−A032−01A, spectrum: 41594
GQTGALLQNTVESLSK, D9N
MVH=60.7285
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y10
y9
y8
y11
y13
y12
y14
y3
y4
y5
y6
b5−H2O
b5
b6
b7
b8
b9
b11
b14

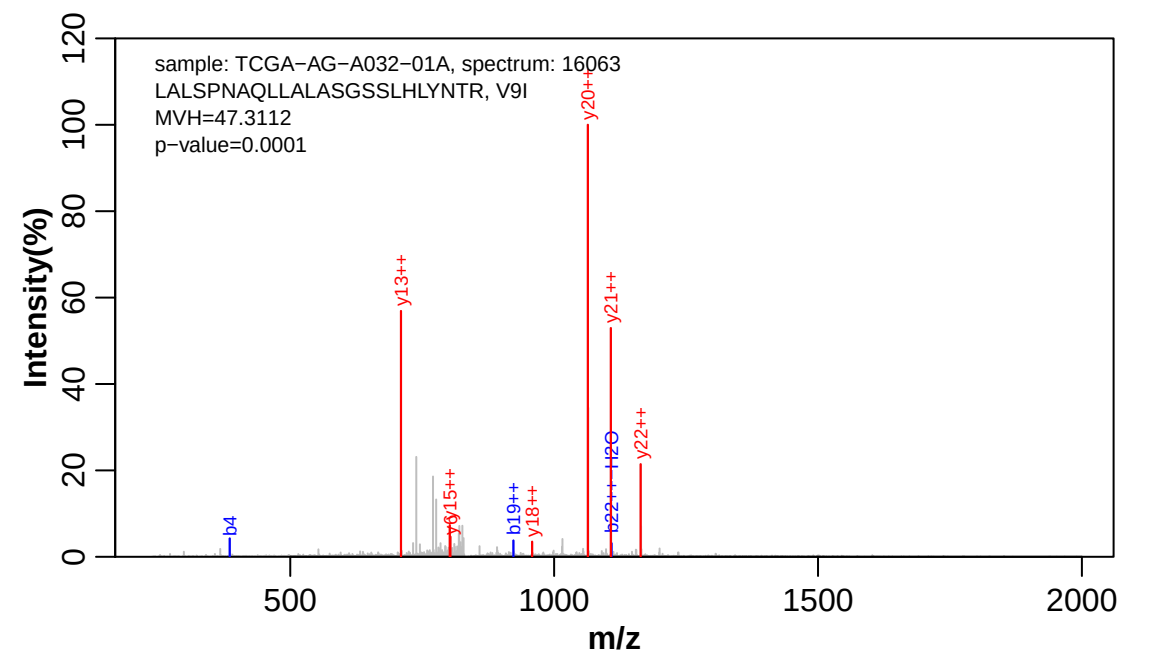

sample: TCGA−AG−A032−01A, spectrum: 22034
GVAGSSVAVLCPYNR, G5S
MVH=47.2841
p−value=0.0001
Intensity(%)
m/z
y5
y4
y6
y8
y7
y9
y10
b7−H2O
b7
b8−H2O
b8
b9−H2O
b9
b10−H2O
b10
b11
b11−H2O
y5−NH3
y6−NH3
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

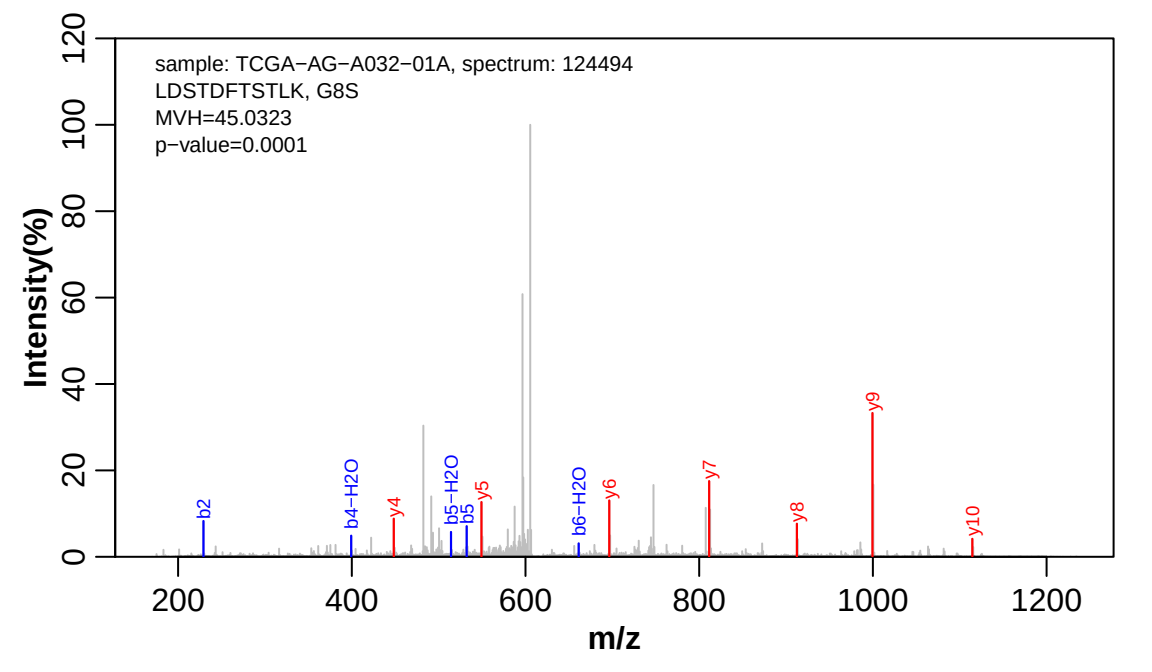

sample: TCGA−AG−A032−01A, spectrum: 76512
KAPPRPGPVPEAAQPFLFTTR, P20T
MVH=61.7666
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4−NH3
b12+++
b9++
b13+++
b9++−H2O
b14+++
b10++
b16+++−NH3
b17+++
b12++
b13++
b19+++−H2O
b14++
b16++
b9−NH3++−H2O

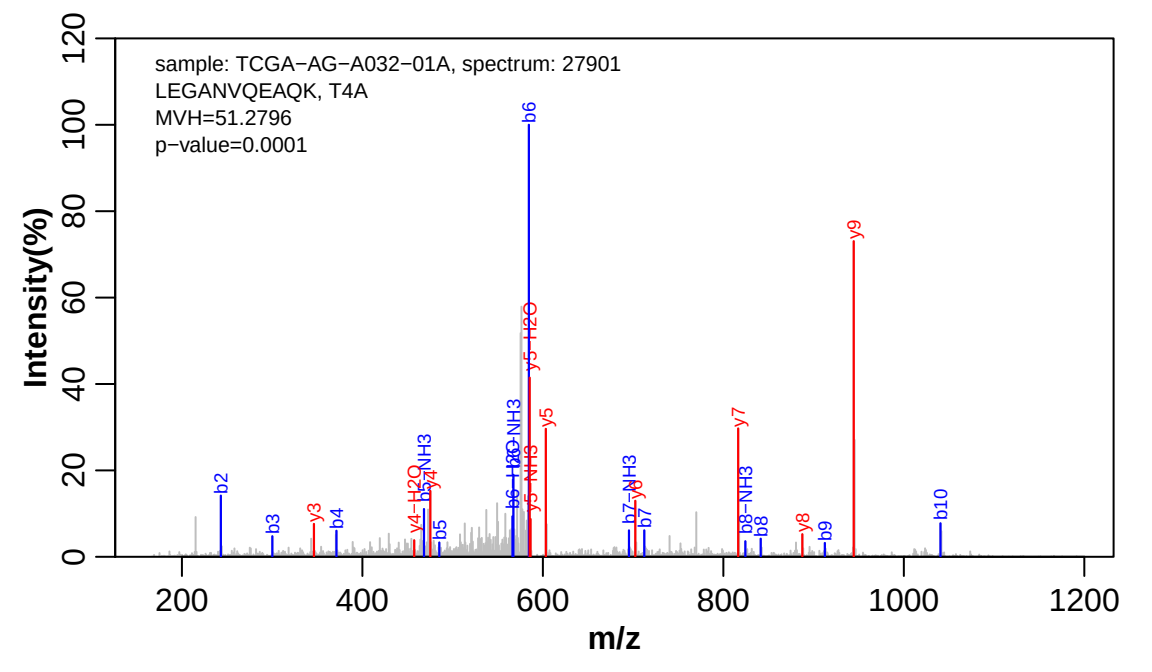

sample: TCGA−AG−A032−01A, spectrum: 93174
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV+V10A
MVH=42.4612
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10++
b12++
b14++
y7
b19++
y18++−H2O
b21++
b24++
b26++
y27++−NH3
y27++−H2O

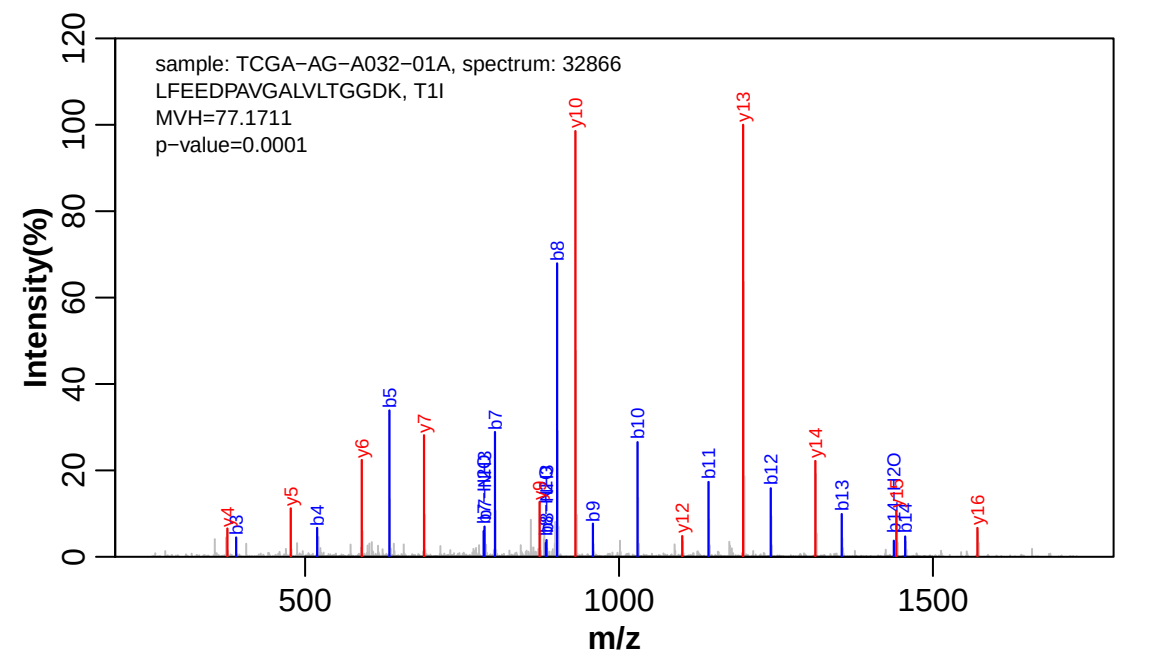

sample: TCGA−AG−A032−01A, spectrum: 64510
KNPDSHYGELLEK, Q6H
MVH=53.2957
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y9++
y11++
y12++
y7
y4
y3
y2
b4
b6−H2O
b10++−H2O
y10++
b11++−H2O
b12++−H2O
y8++
b5−H2O
y5+−H2O

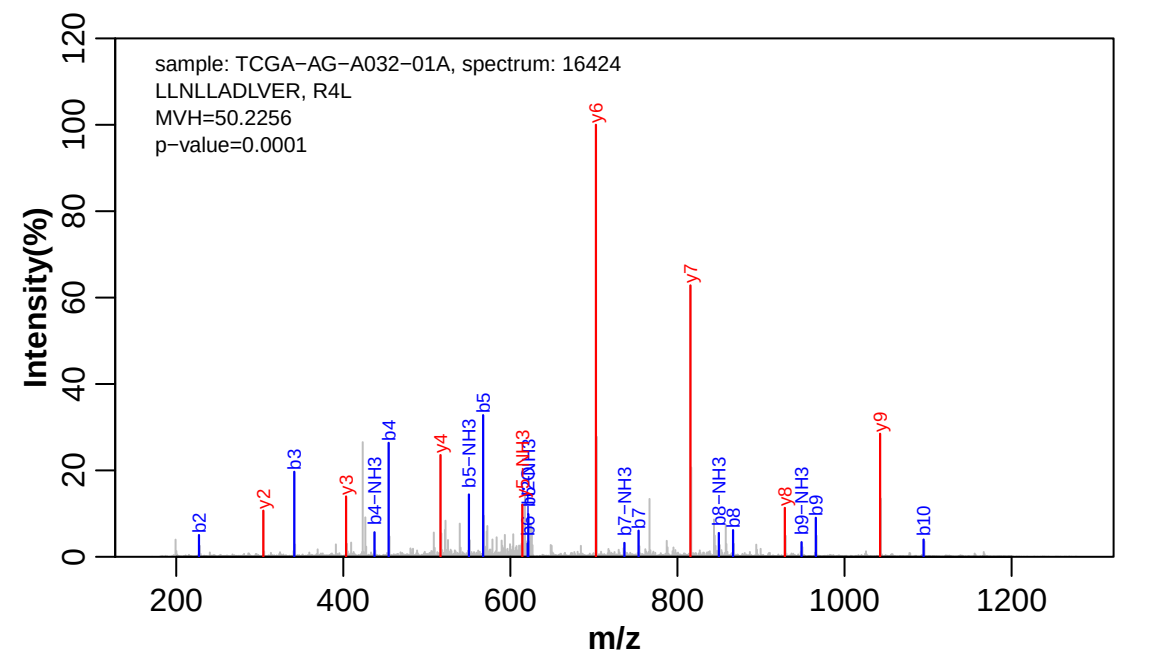

sample: TCGA−AG−A032−01A, spectrum: 81375
KNPLPPSAGVVDKK, V8A
MVH=51.6710
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y1
b2−NH3
b2
y2−NH3
y5++
b3−NH3
b5++
b7++−H2O
b8++−H2O
y3
b4
y4−H2O
b10++−H2O
y10++
b11++
b5++
y5−H2O
b12++
y12++
y6−H2O
y13++
b7−H2O
b7
y8
b9
y9
y10

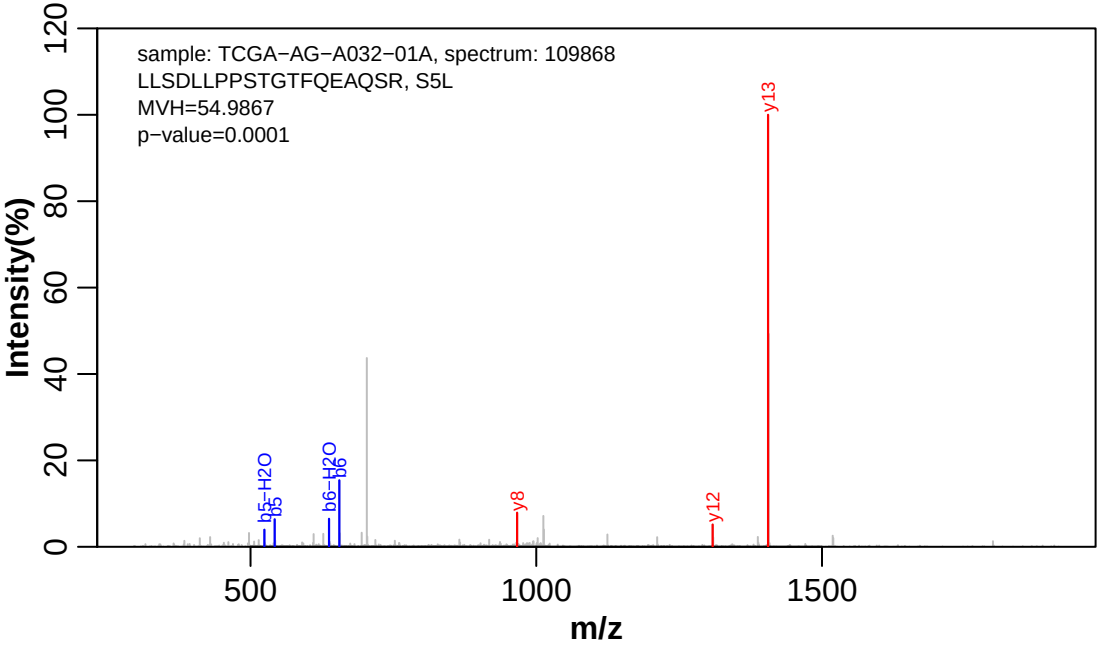

sample: TCGA−AG−A032−01A, spectrum: 16063
LALSPNAQLLALASGSSLHLYNTR, V9I
MVH=47.3112
p−value=0.0001
y20++
y13++
y21++
y22++
b22++ H2O
y15++
b19++
y18++
b4
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
2000
m/z

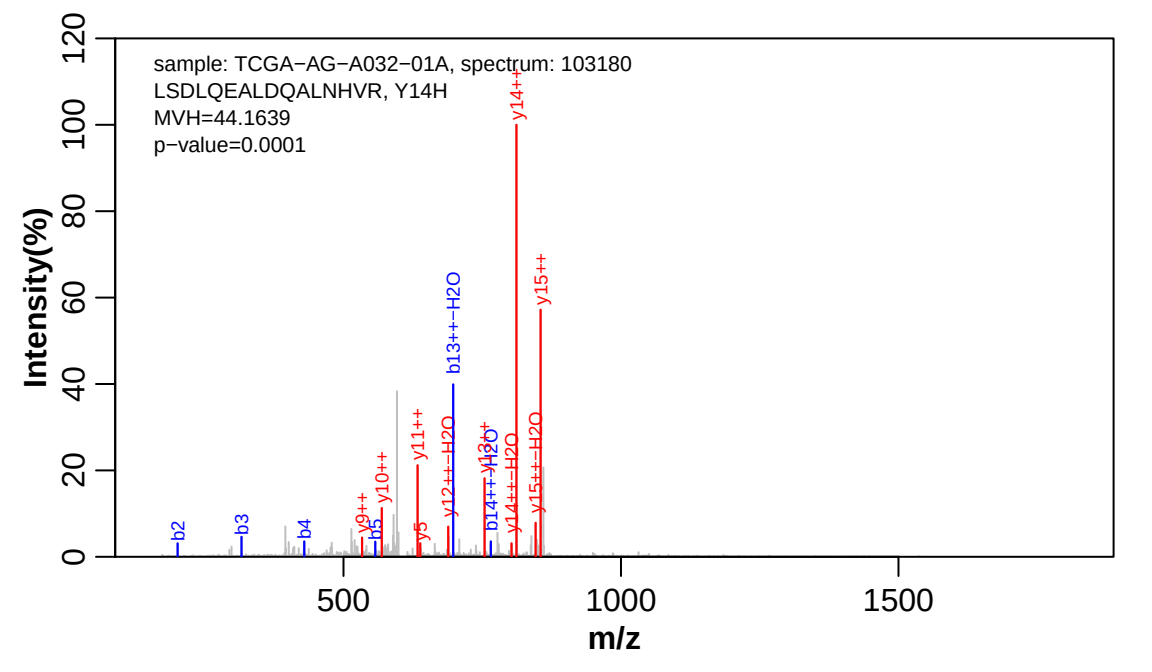

sample: TCGA−AG−A032−01A, spectrum: 124494
LDSTDFTSTLK, G8S
MVH=45.0323
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
y6
y7
y8
y9
y10

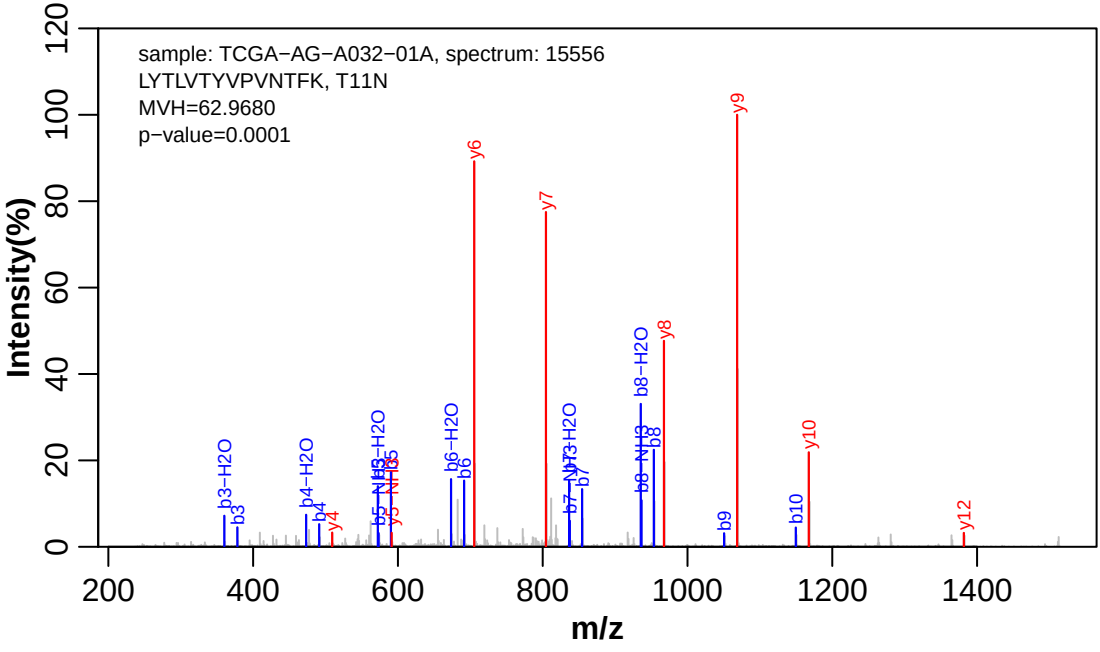

sample: TCGA−AG−A032−01A, spectrum: 27901
LEGANVQEAQK, T4A
MVH=51.2796
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b3
y3
b4
y4−H2O
y4−NH3
y4
b5
b6−H2O
b6−NH3
b6
y5−H2O
y5−NH3
y5
b6
b7−NH3
b7−H2O
b7
y7
b8−NH3
b8
y8
b9
b10
y9

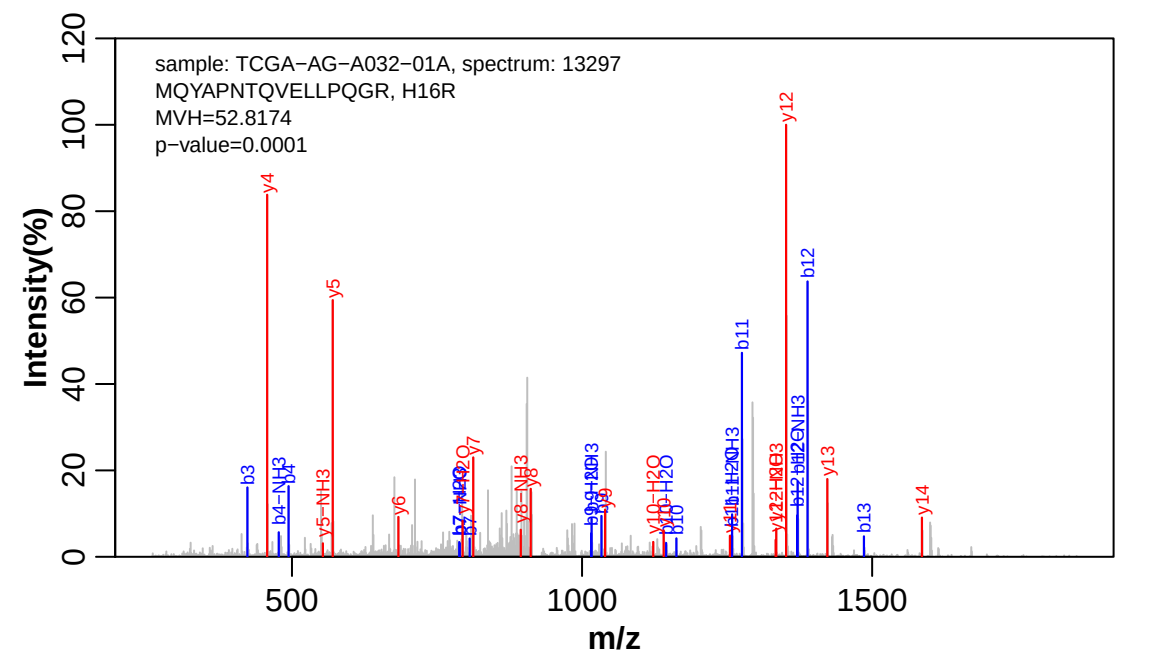

sample: TCGA−AG−A032−01A, spectrum: 32866
LFEEDPAVGALVLTGGDK, T1I
MVH=77.1711
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y10
y13
b8
b5
y7
y6
b7
b10
y5
b4
y4
b3
b9
y12
b11
b12
y14
b13
y16

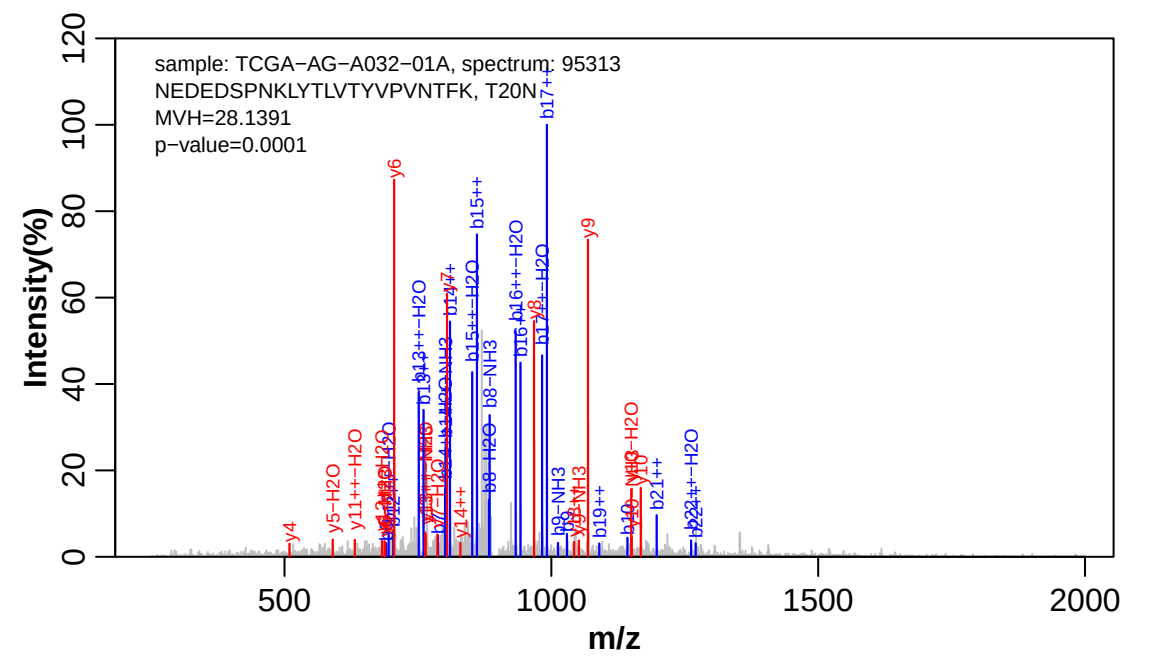

sample: TCGA−AG−A032−01A, spectrum: 16424
LLNLLADLVER, R4L
MVH=50.2256
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
b6−NH3
y5
b6
y6
b7−NH3
b7
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

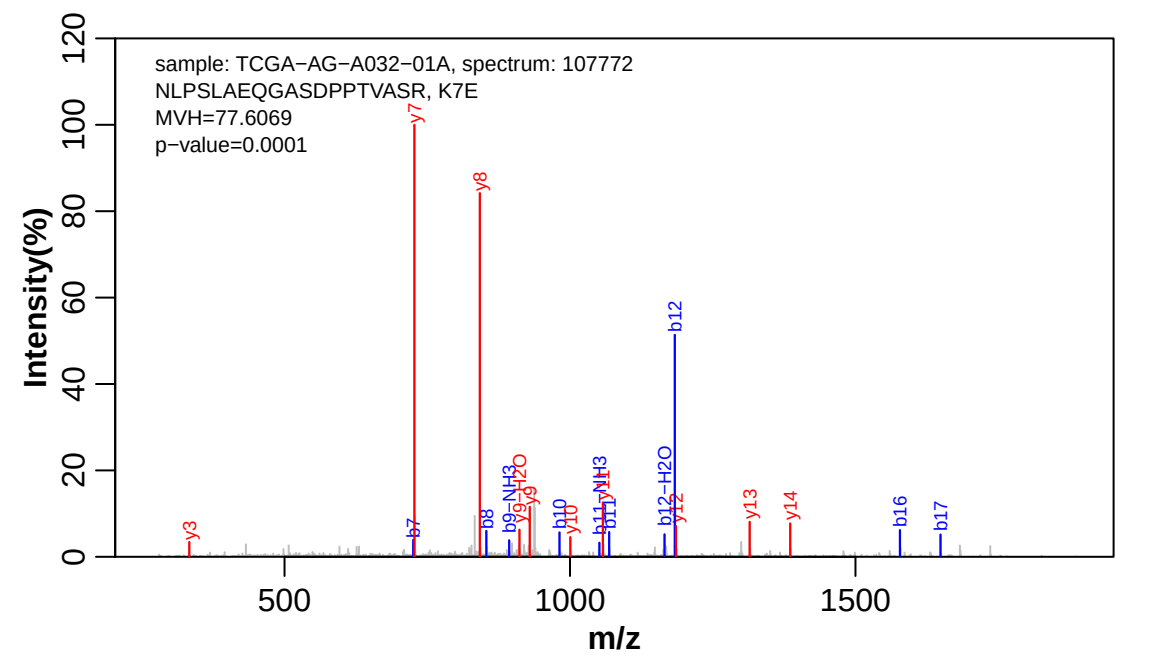

sample: TCGA−AG−A032−01A, spectrum: 109868
LLSDLLPPSTGTFQEAQSR, S5L
MVH=54.9867
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5−H2O
b5
b6−H2O
b6
y8
y12
y13

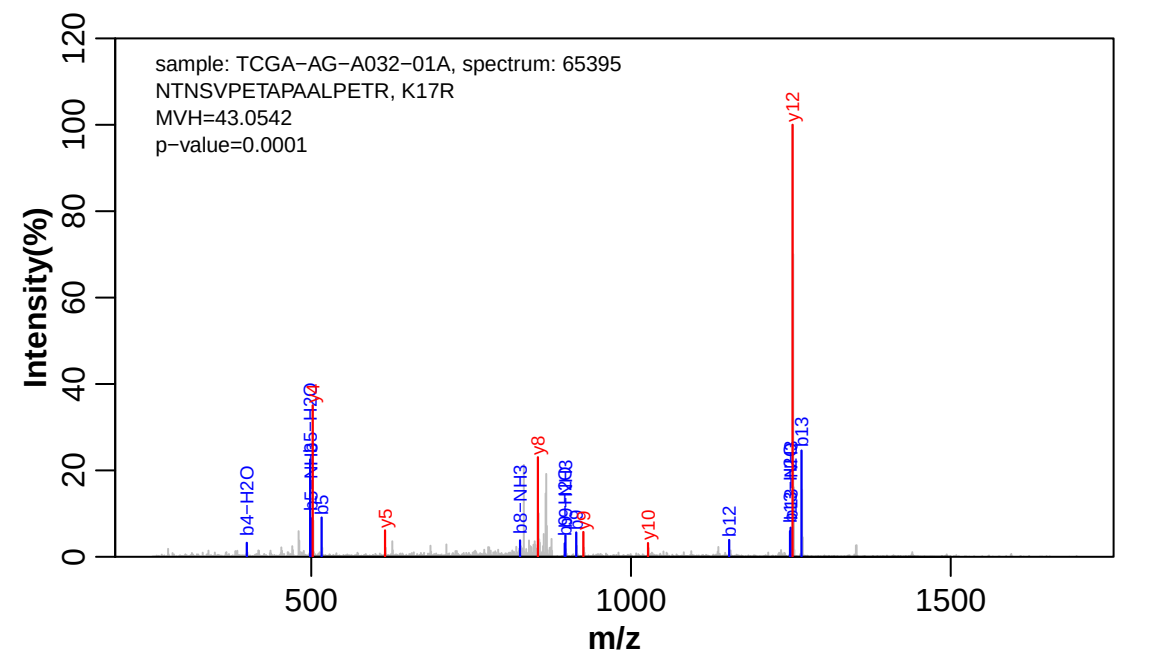

sample: TCGA−AG−A032−01A, spectrum: 103180
LSDLQEALDQALNHVR, Y14H
MVH=44.1639
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
b4
y9++
b5
y10++
y5
y11++
y12++−H2O
b13++−H2O
b14++
y14++−H2O
y14++
y15++−H2O
y15++

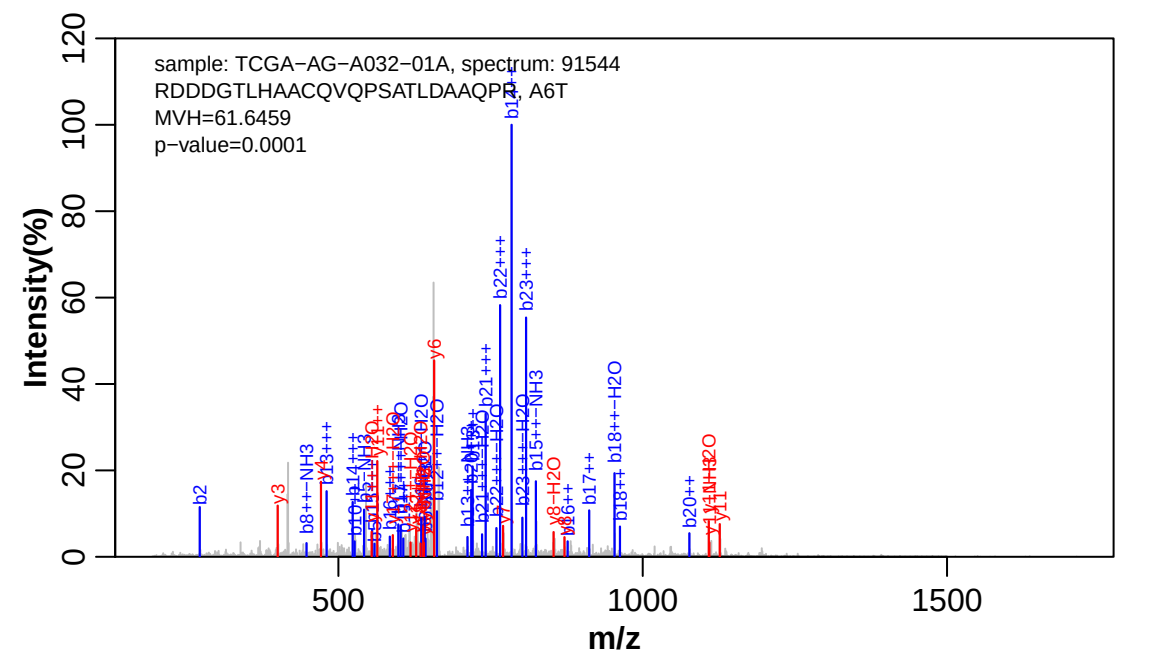

sample: TCGA−AG−A032−01A, spectrum: 15556
LYTLVTYVPVNTFK, T11N
MVH=62.9680
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y6
y7
y9
y8
y10
y12
b3−H2O
b3
b4−H2O
b4
y4
b5−NH3
b5−H2O
y5−NH3
y5
b6−H2O
b6
y7−H2O
y7
b7
b8−H2O
b8−NH3
b8
b9
b10

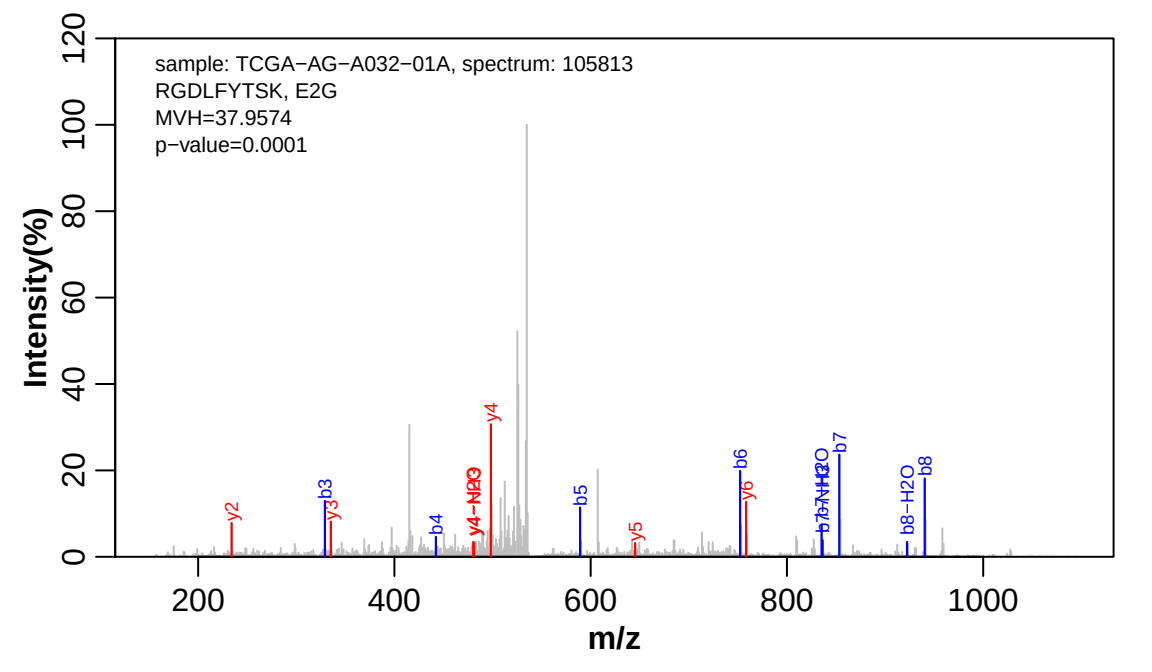

sample: TCGA−AG−A032−01A, spectrum: 13297
MQYAPNTQVELLPQGR, H16R
MVH=52.8174
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y12
b12
b11
b3
b4−NH3
y5−NH3
y6
y7
y8−NH3
y13
y14
b13

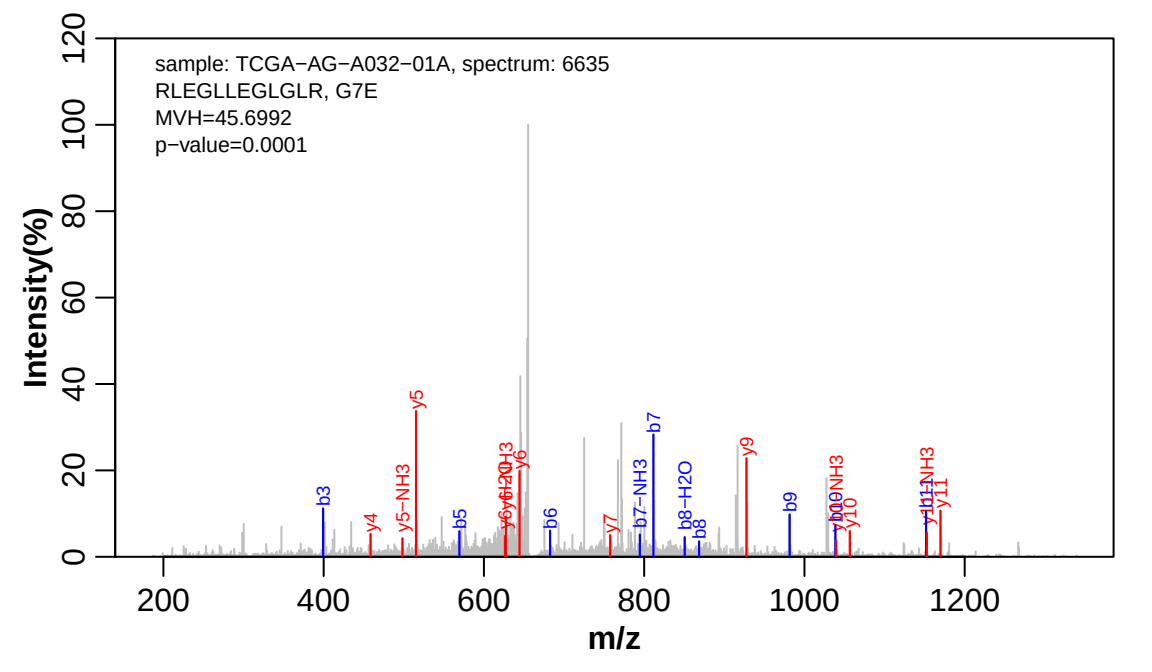

sample: TCGA−AG−A032−01A, spectrum: 95313
NEDEDSPNKLYTLVTYVPVNTFK, T20N
MVH=28.1391
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y6
b17++
y9
b15++
b16++−H2O
b15++−H2O
b8−NH3
b8−H2O
y5−H2O
y11++−H2O
y4
y14++
b19++
b21++
b22++−H2O

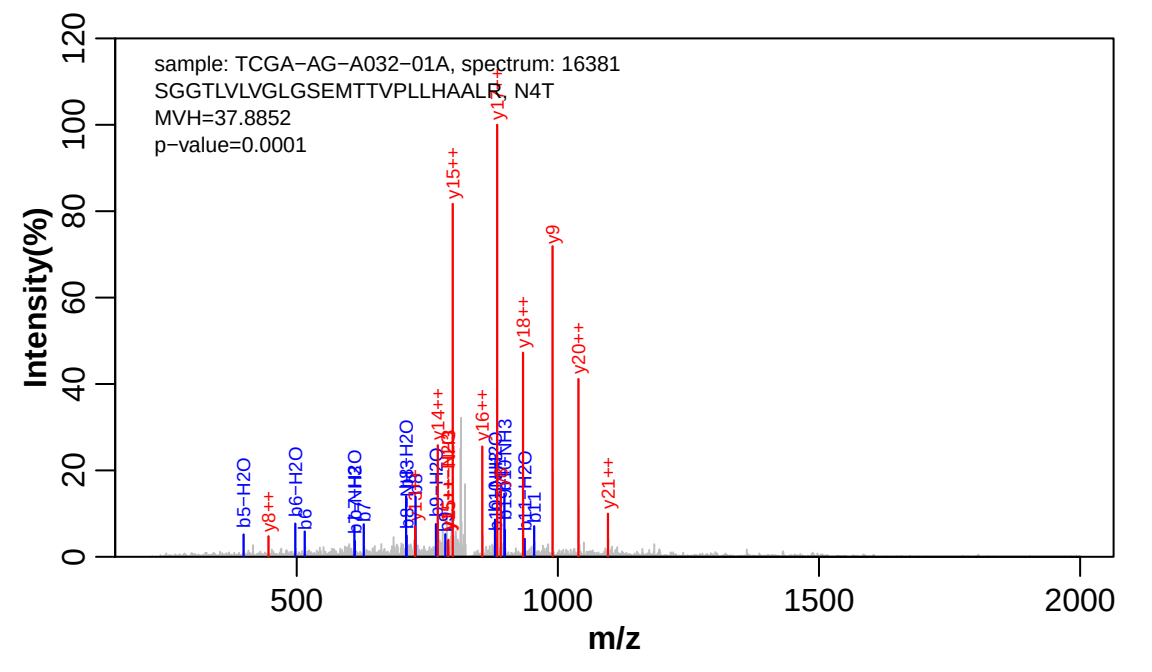

sample: TCGA−AG−A032−01A, spectrum: 107772
NLPSLAEQGASDPPTVASR, K7E
MVH=77.6069
p−value=0.0001
Intensity(%)
m/z
y7
y8
b12
y3
b7
b8
b9−NH3
y9−H2O
b10
y10
b11−NH3
b11
b12−H2O
y12
y13
y14
b16
b17

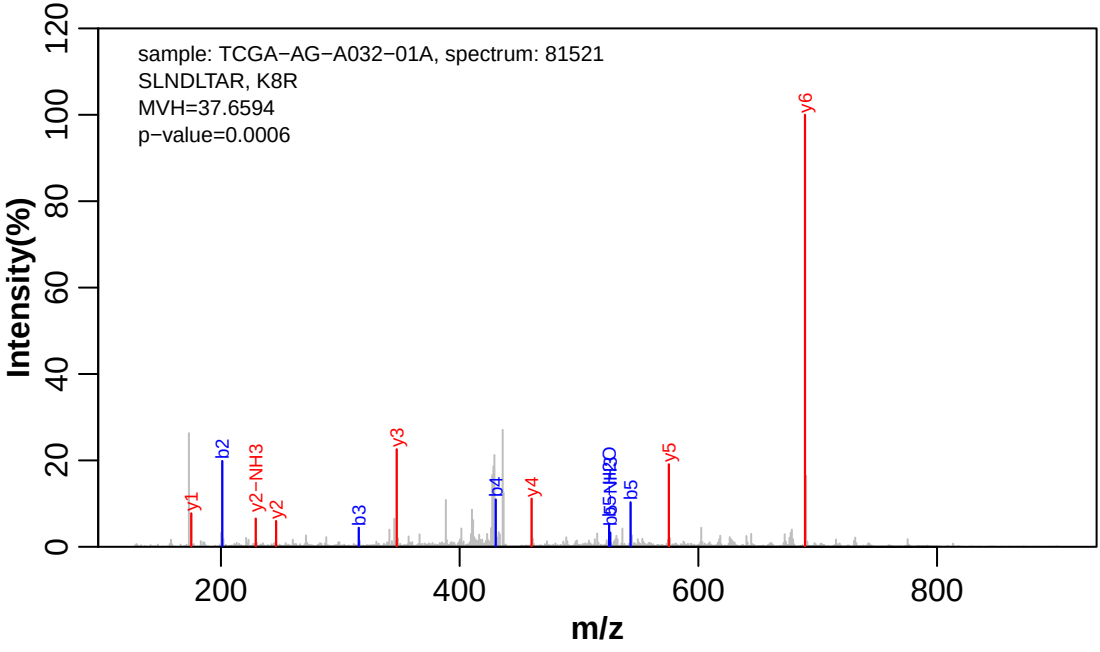

sample: TCGA−AG−A032−01A, spectrum: 65395
NTNSVPETAPAALPETR, K17R
MVH=43.0542
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4−H2O
y5
b8−NH3
y8
y10
b12
y12
b13

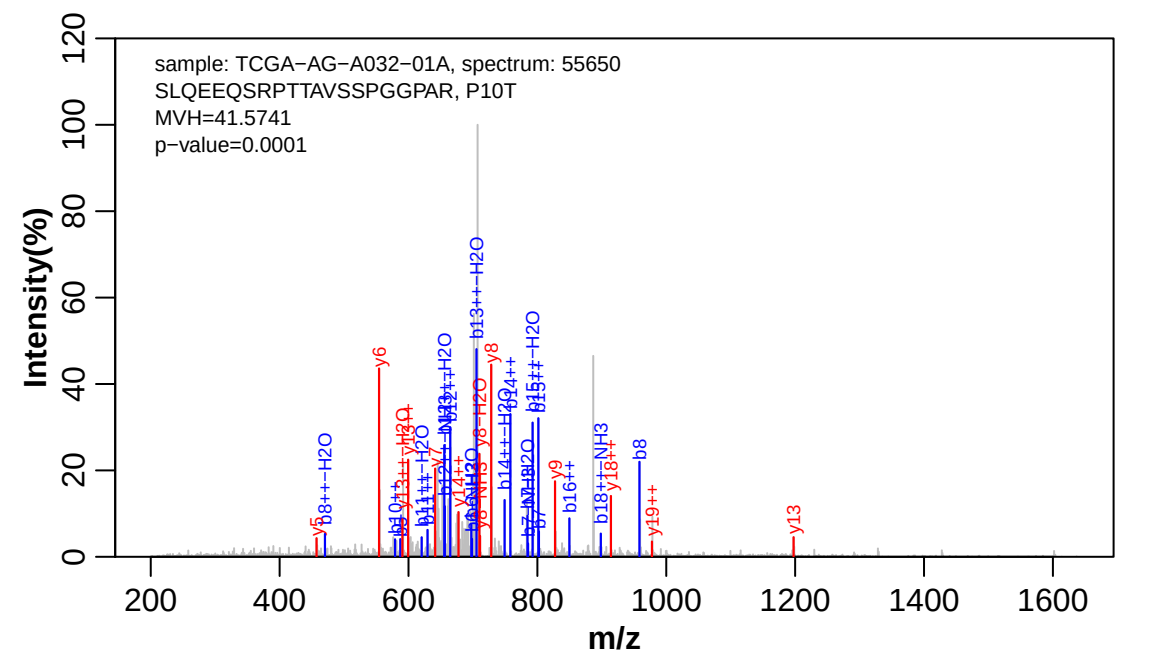

sample: TCGA−AG−A032−01A, spectrum: 91544
RDDDGTLHAACQVQPSATLDAAQPR, A6T
MVH=61.6459
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b2
y3
b8++−NH3
b9+++
y6
b12+++−H2O
b12+++
b22+++
b23+++
b15++−NH3
b17++
b18++−H2O
b18++
b20++
y11
y11+NH3−H2O

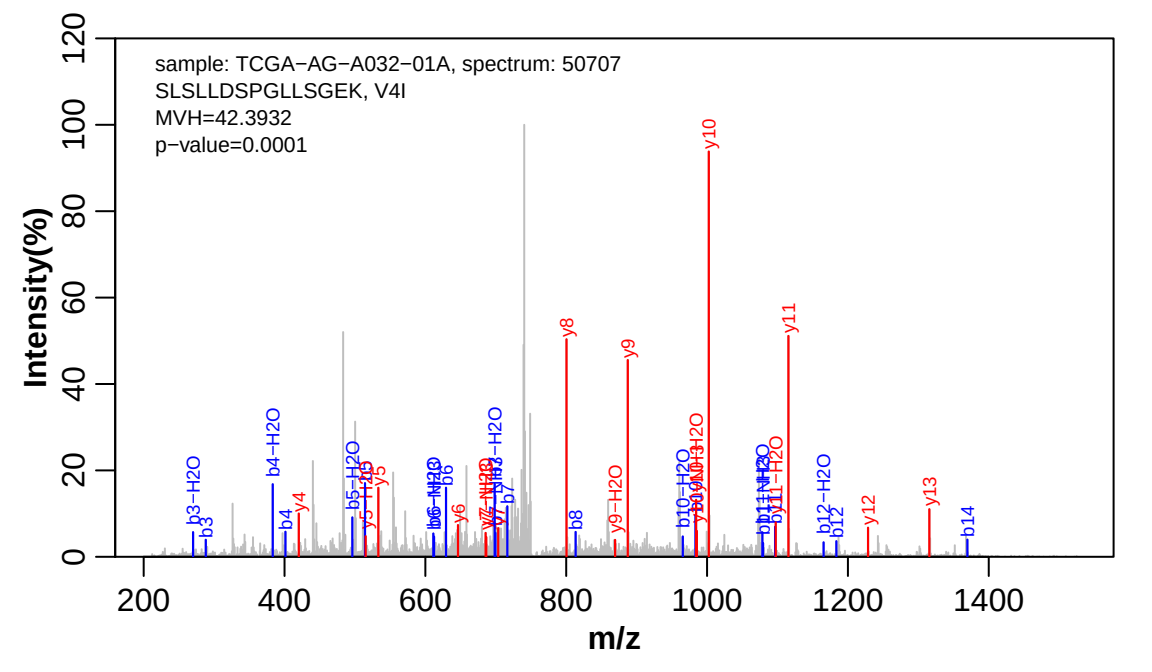

sample: TCGA−AG−A032−01A, spectrum: 105813
RGDLFYTSK, E2G
MVH=37.9574
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
y2
b3
y3
b4
y4
b5
y5
b6
y6
b7
b8
b8−H2O

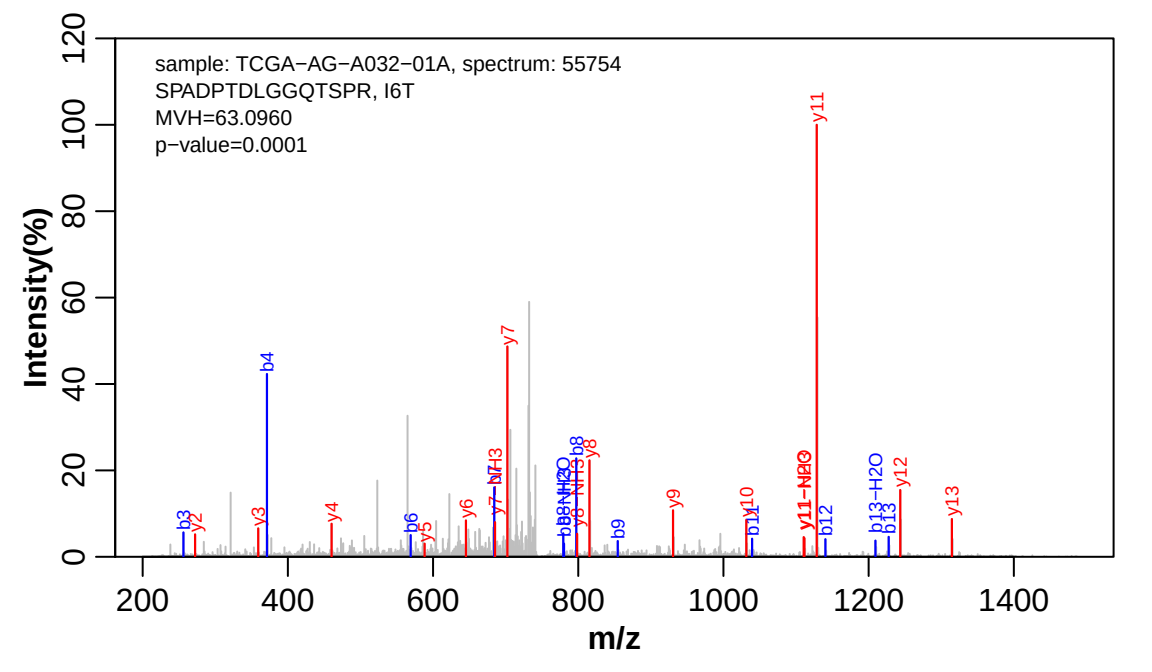

sample: TCGA−AG−A032−01A, spectrum: 6635
RLEGLLEGLGLR, G7E
MVH=45.6992
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
b3
y4
y5−NH3
y5
b5
y6−H2O
y6−NH3
y6
b6
y7
b7−NH3
b7
b8−H2O
b8
y9
b9
y10−NH3
y10
y11−NH3
y11

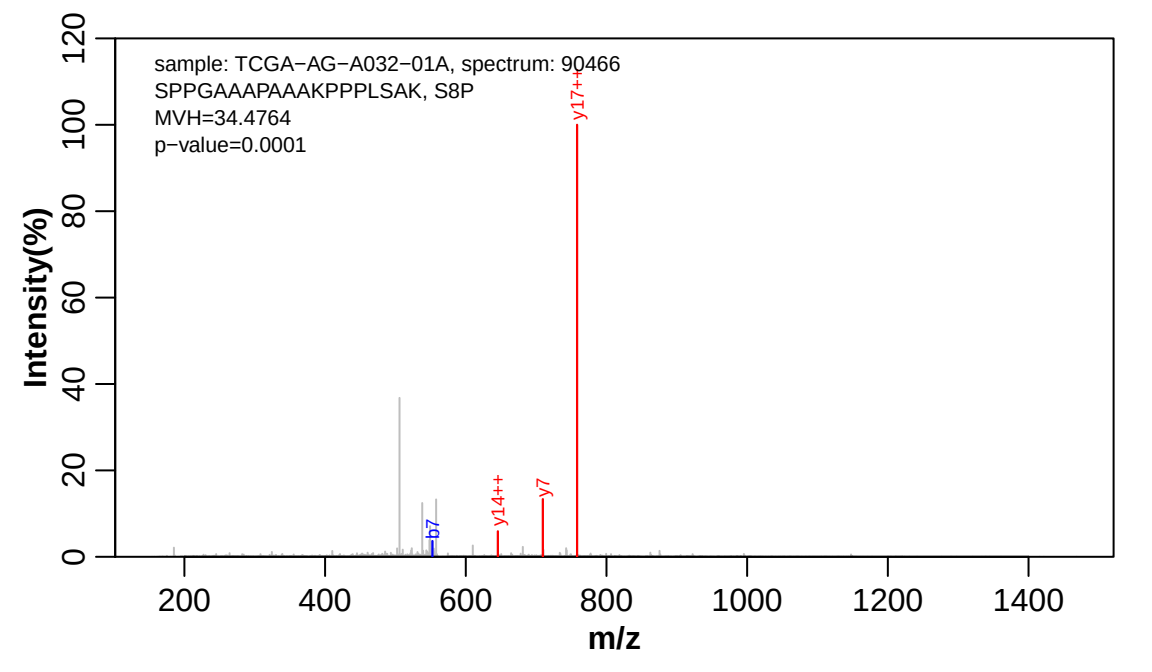

sample: TCGA−AG−A032−01A, spectrum: 16381
SGGTLVLVGLGSEMTTVPLLHAALR, N4T
MVH=37.8852
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y17++
y15++
y9
y18++
y20++
y21++
y16++
y14++
y8++
b5−H2O
b6−H2O
b8
b7
b11
b11−H2O

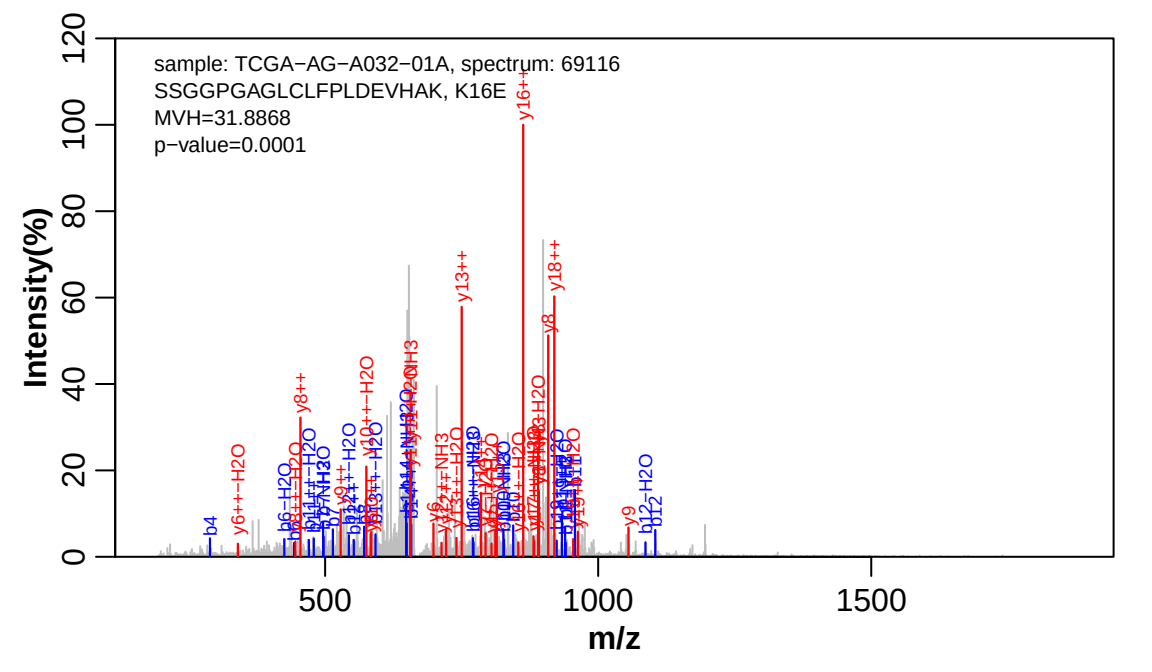

sample: TCGA−AG−A032−01A, spectrum: 81521
SLNDLTAR, K8R
MVH=37.6594
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2
y2−NH3
y2
b3
y3
b4
y4
b5−NH2O
b5−NH3
b5
y5
y6

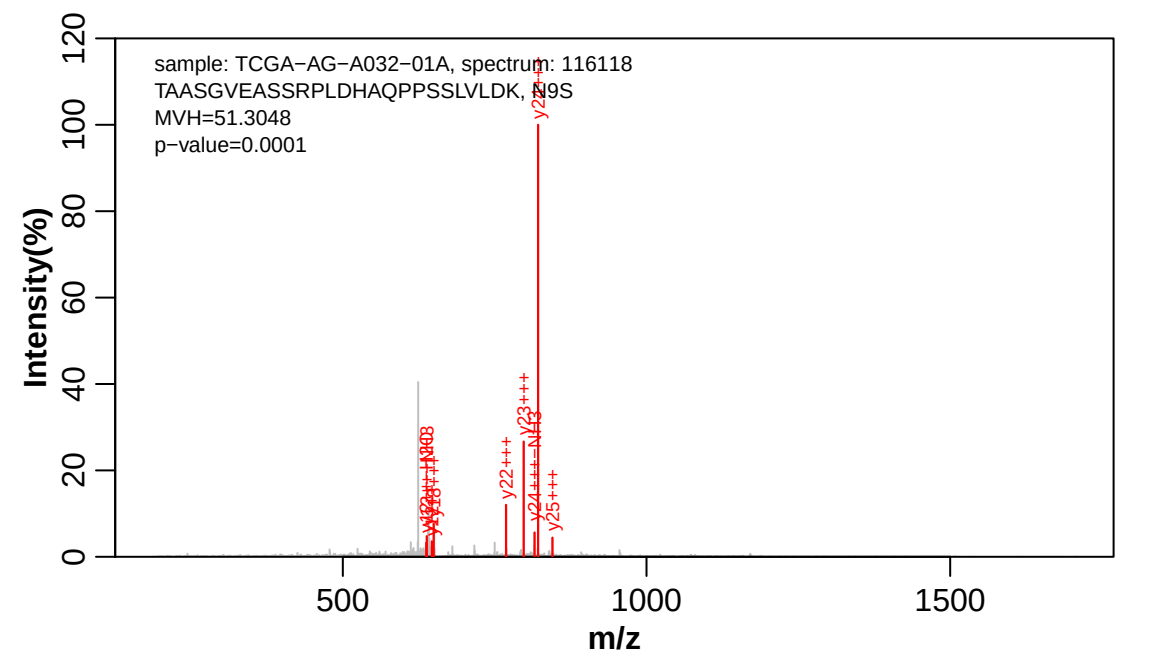

sample: TCGA−AG−A032−01A, spectrum: 55650
SLQEEQSRPTTAVSSPGGPAR, P10T
MVH=41.5741
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y6
y8
b13++−H2O
b15++−H2O
b8++−H2O
y5
b16++
y9
b18++−NH3
y18++
b8
y19++
y13

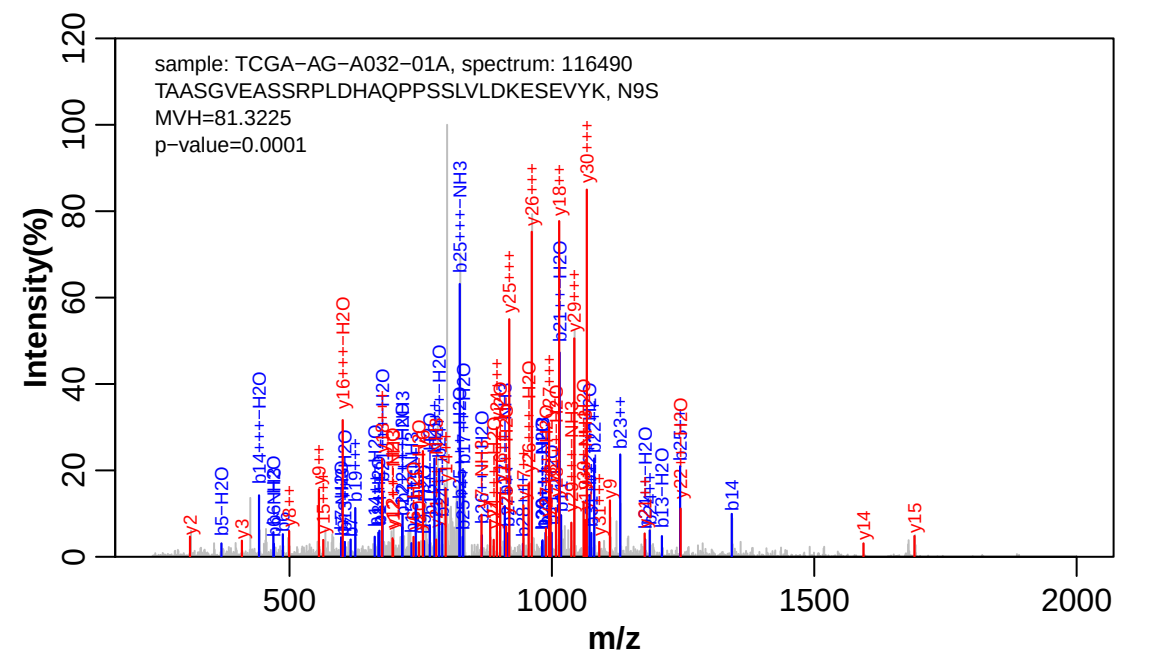

sample: TCGA−AG−A032−01A, spectrum: 50707
SLSLLDSPGLLSGEK, V4I
MVH=42.3932
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3−H2O
b3
b4−H2O
b4
y4
b5−H2O
y5−H2O
y5
b6
y6
b7
b8
y8
y9
y9−H2O
b10−H2O
y10
y10−H2O
y11
y11−H2O
b12−H2O
b12
y12
y13
b14

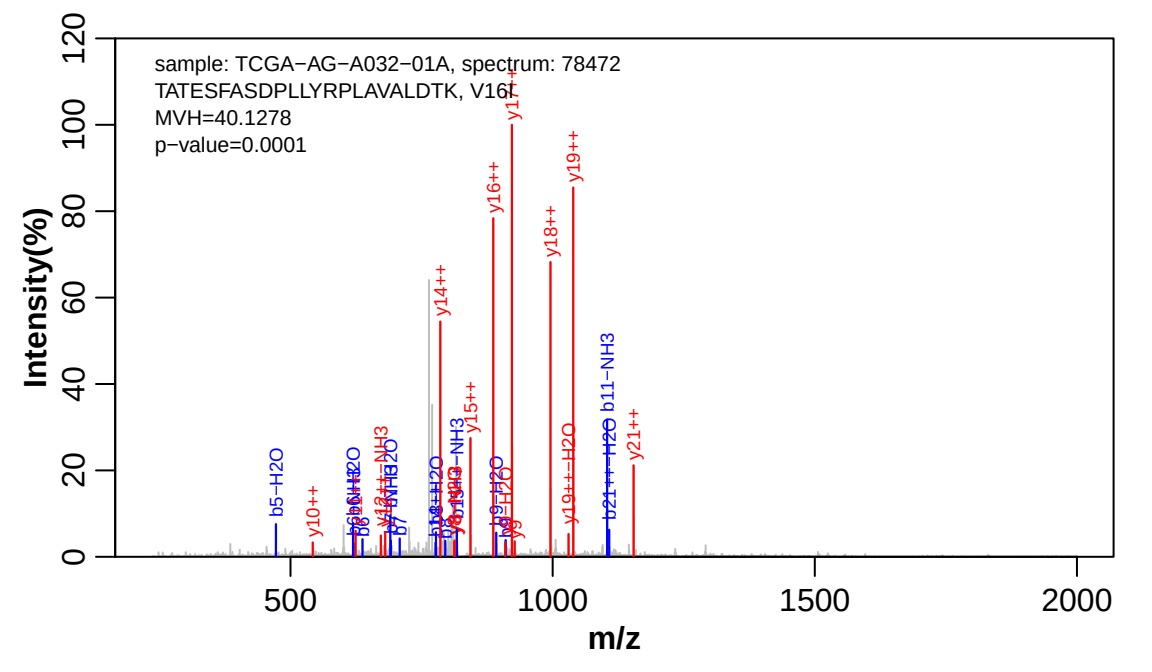

sample: TCGA−AG−A032−01A, spectrum: 55754
SPADPTDLGGQTSPR, I6T
MVH=63.0960
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b3
y2
y3
b4
y4
b6
y5
y6
y7
y8
b9
y9
b10
y10
b11
y11
b12
b13−H2O
b13
y12
y13

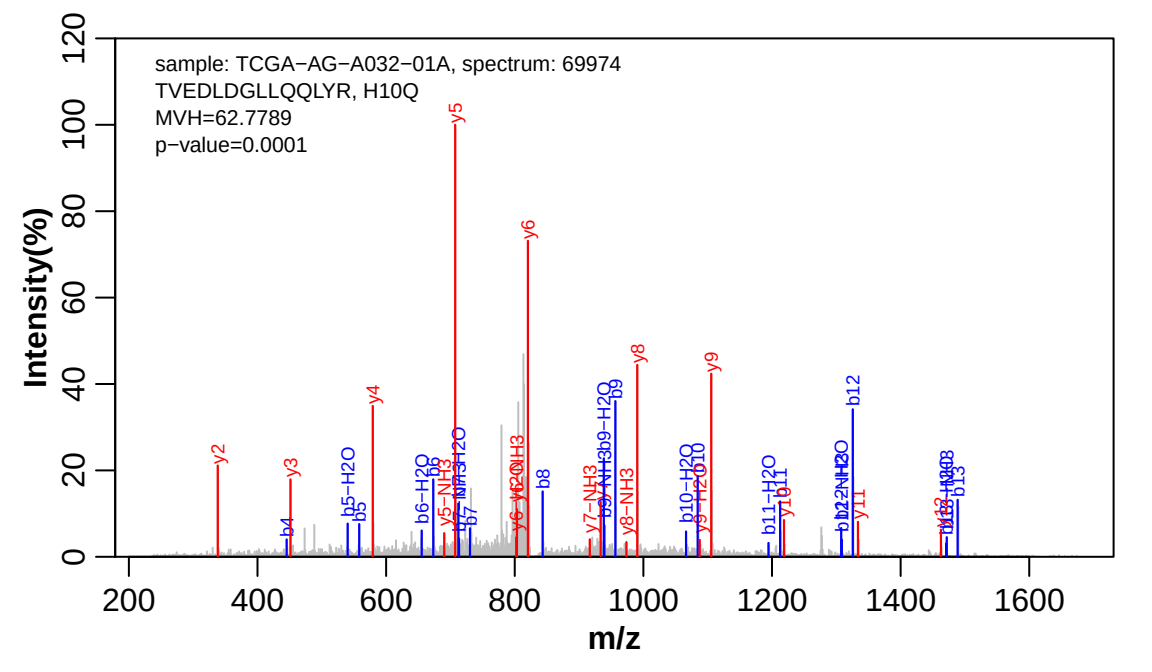

sample: TCGA−AG−A032−01A, spectrum: 90466
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.4764
p−value=0.0001
y17++
y14++
y7
b7
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
m/z

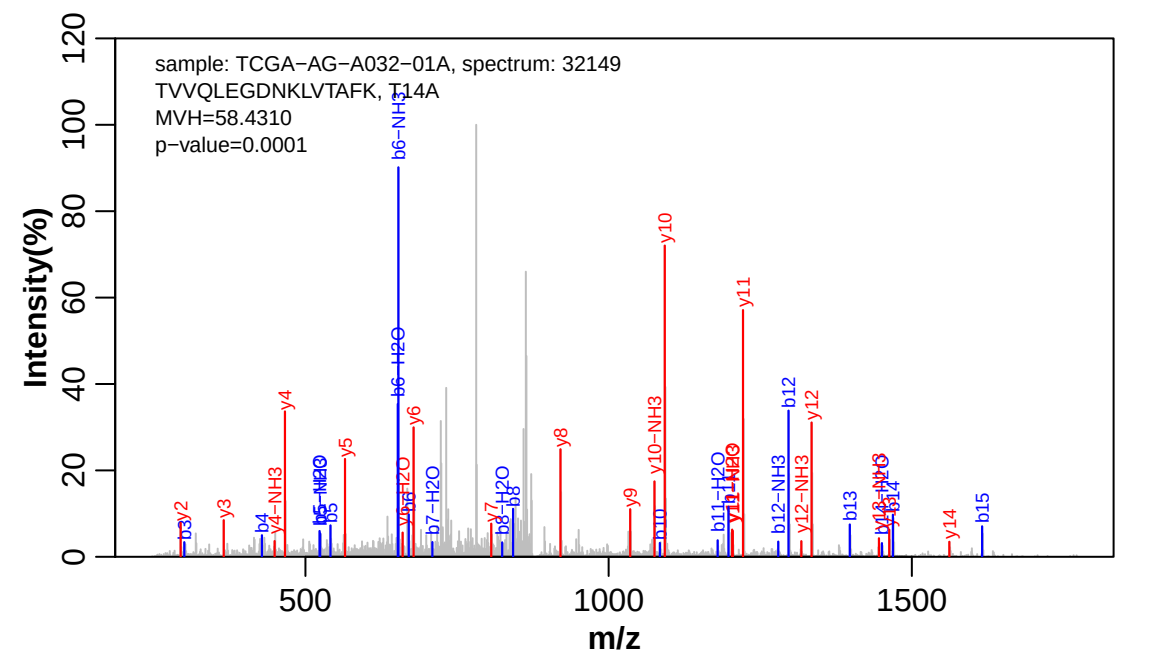

sample: TCGA−AG−A032−01A, spectrum: 69116
SSGGPGAGLCLFPLDEVHAK, K16E
MVH=31.8868
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y16++
y13++
y18++
y8++
y8
y6++−H2O
b4
b12−H2O
y9
b6−H2O
y8++−H2O
y13++−H2O
y6++−NH3
y6++
y13++−NH3
y6
y13++
y8++−NH3
y8++−H2O−NH3

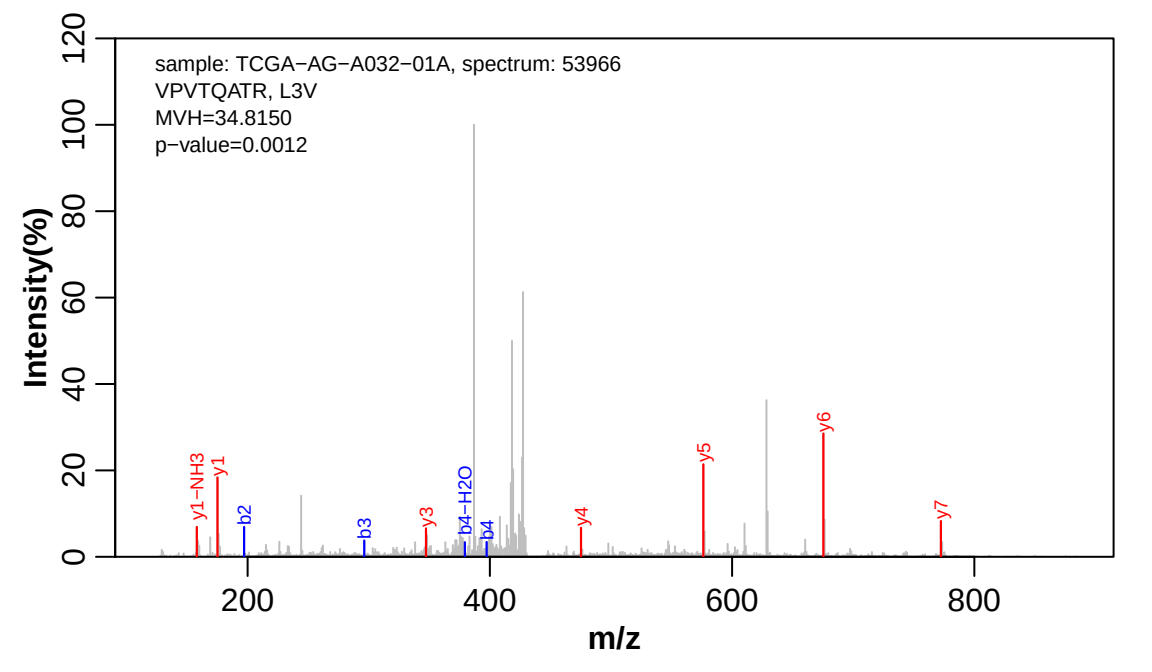

sample: TCGA−AG−A032−01A, spectrum: 116118
TAASGVEASSRPLDHAQPPSSLVLDK, N9S
MVH=51.3048
p−value=0.0001
y22+++
y23+++
y24+++−NH3
y22+++
y25+++
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

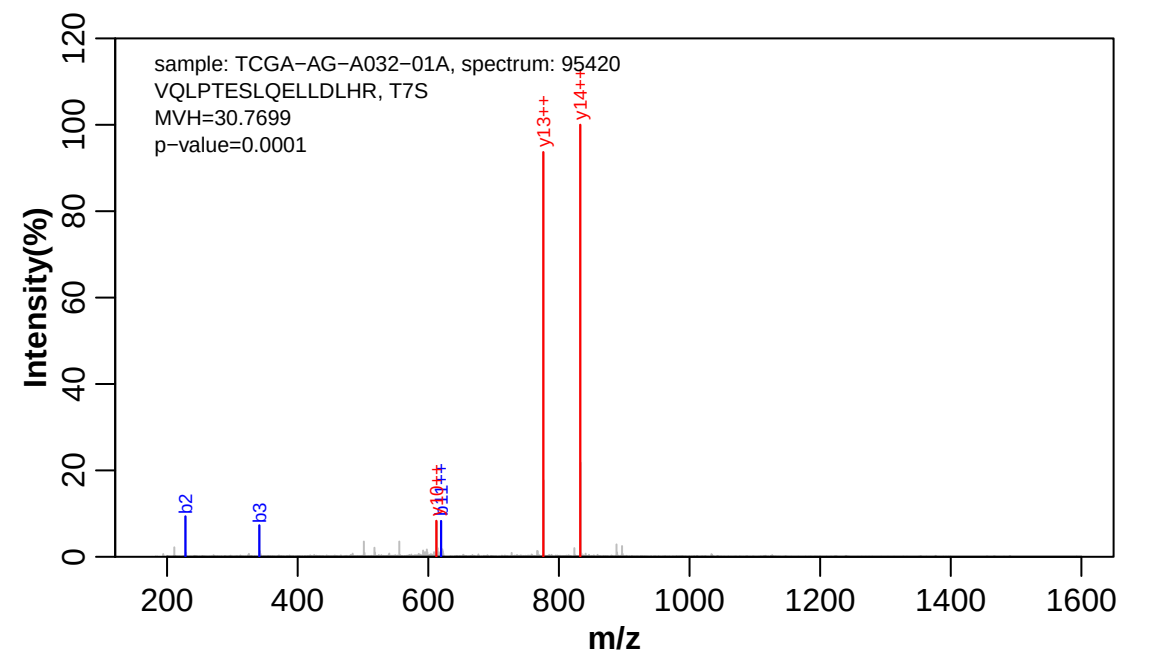

sample: TCGA−AG−A032−01A, spectrum: 116490
TAASGVEASSRPLDHAQPPSSLVLDKESEVYK, N9S
MVH=81.3225
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
b5−H2O
y3
b14+++−H2O
y8++
y15++
y9++
y16+++−H2O
b25+++−NH3
y26+++
y18++
y30+++
y25+++
b23++
y14
y15
b14

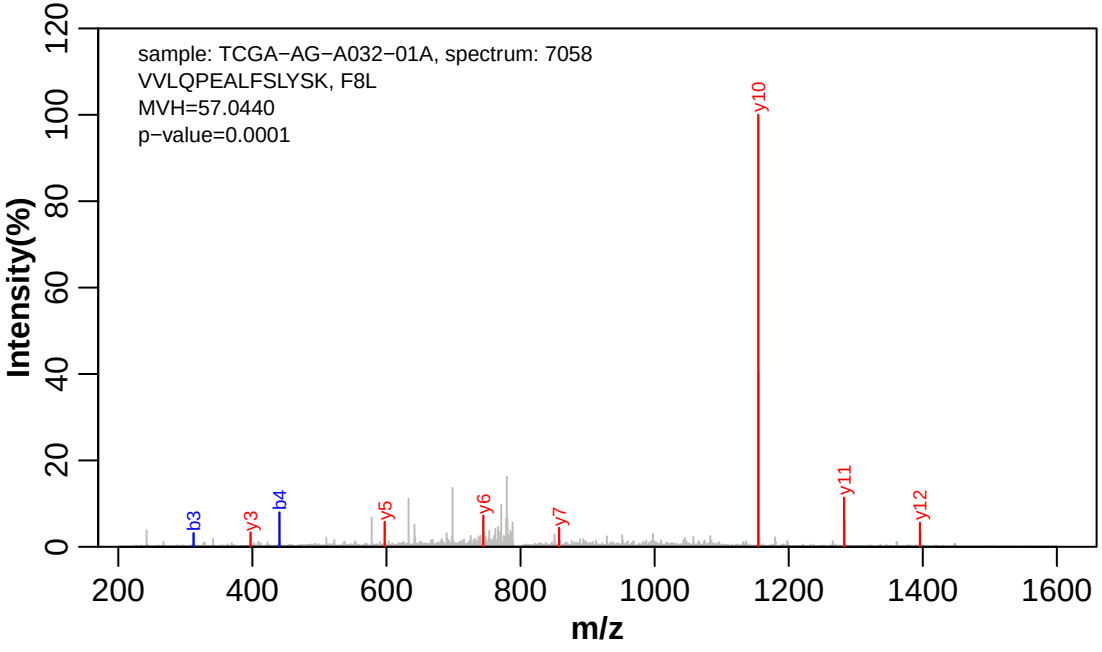

sample: TCGA−AG−A032−01A, spectrum: 78472
TATESFASDPLLYRPLAVALDTK, V16T
MVH=40.1278
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b5−H2O
y10++
y14++
y15++
y16++
y17++
y18++
y19++
y19++−H2O
b11−NH3
y21++

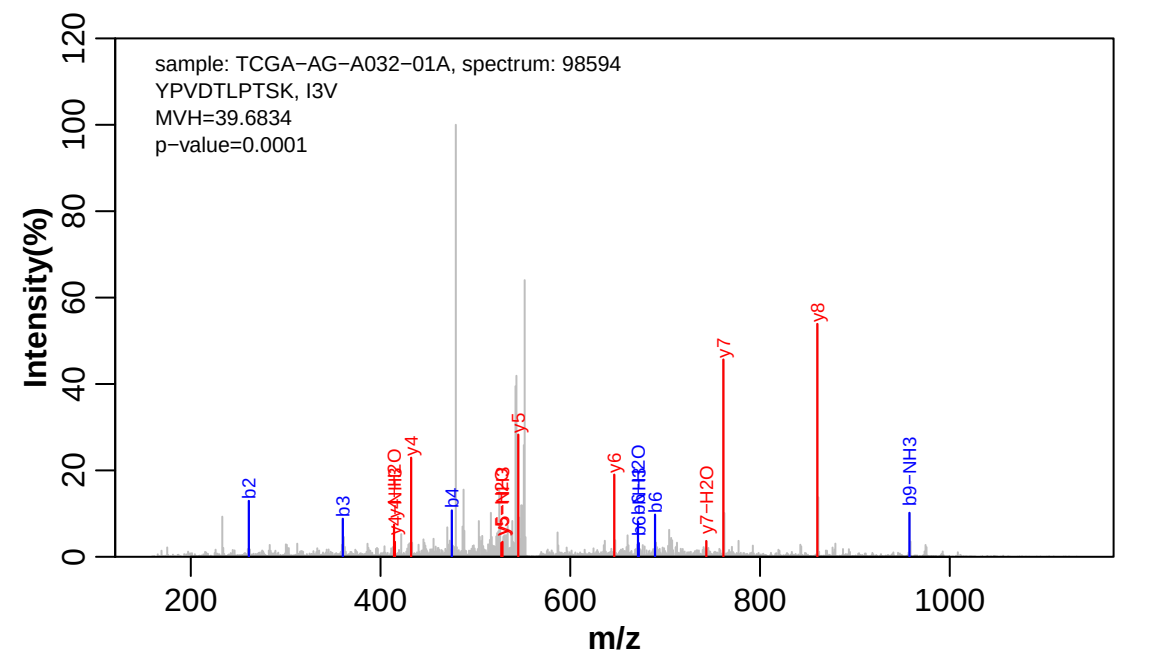

sample: TCGA−AG−A032−01A, spectrum: 69974
TVEDLDGLLQQLYR, H10Q
MVH=62.7789
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y5
y6
y8
y9
y4
y2
y3
b12
b5−H2O
b6−H2O
b8
b9
b9−H2O
b10−H2O
b11−H2O
y7−NH3
y8−NH3
y9−H2O
y10
y11
b4
b5
b6
b7
b13

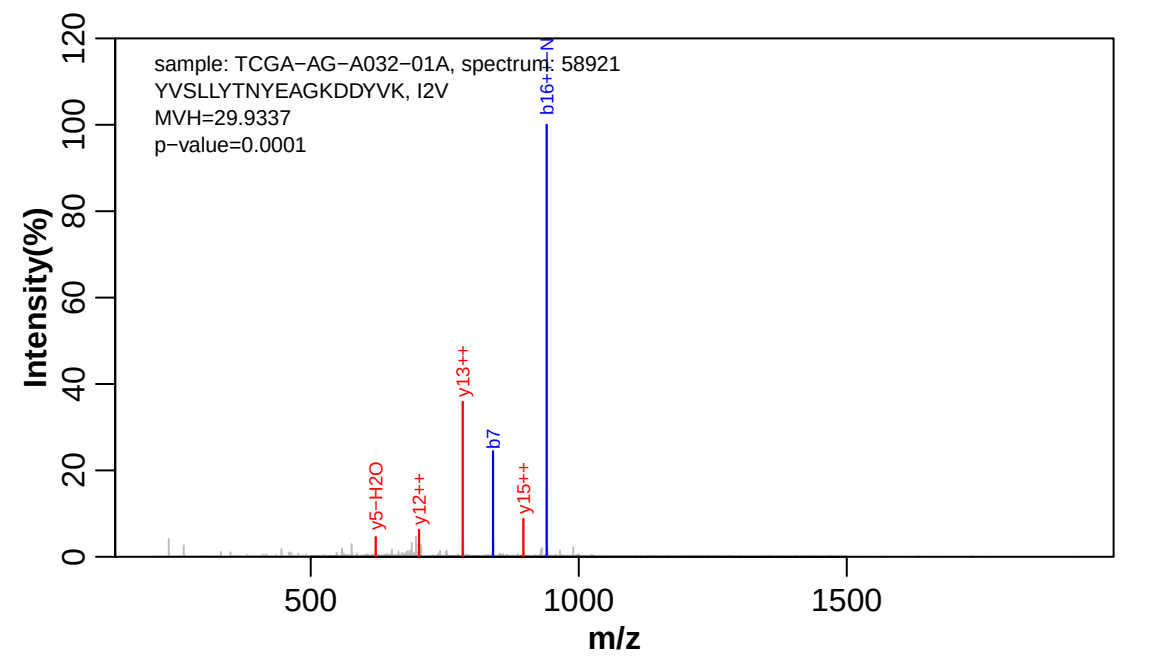

sample: TCGA−AG−A032−01A, spectrum: 32149
TVVQLEGDNKLVTAFK, +14A
MVH=58.4310
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b6−NH3
b6−H2O
y10
y11
y4
y6
y5
y8
y10−NH3
b12
y12
y12−NH3
b12−NH3
b11−H2O
y9
b7−H2O
b8−H2O
y7
b13
y14
b15
y4−NH3
y3
b4
y2
b3

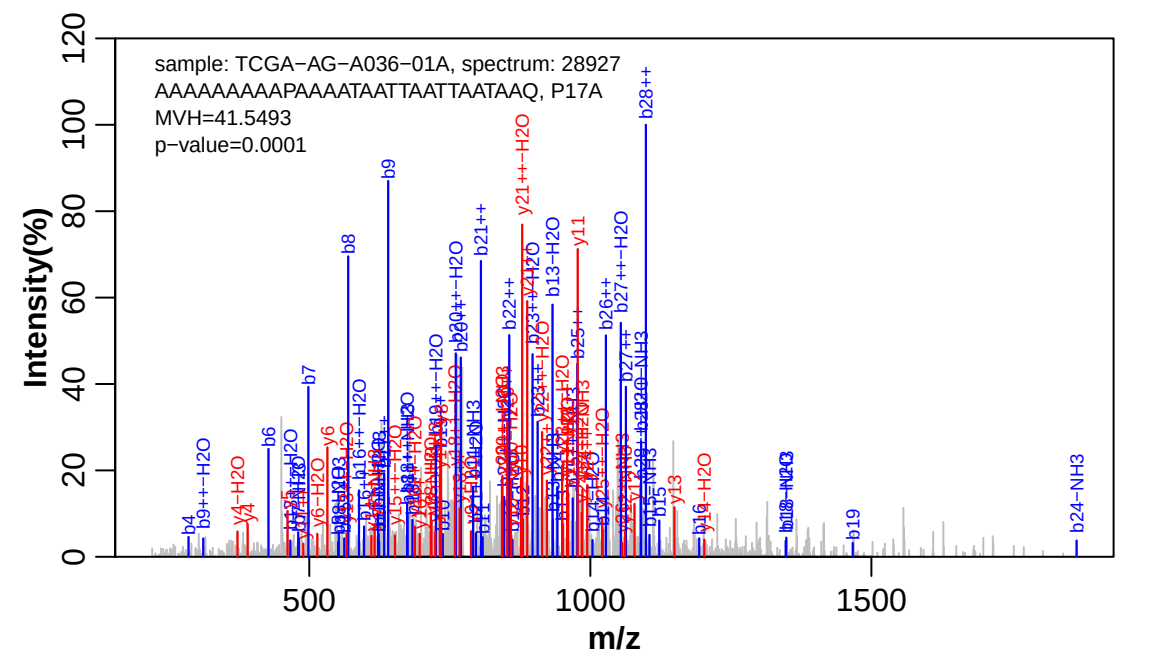

sample: TCGA−AG−A032−01A, spectrum: 53966
VPVTQATR, L3V
MVH=34.8150
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1−NH3
y1
b2
b3
y3
b4−H2O
b4
y4
y5
y6
y7

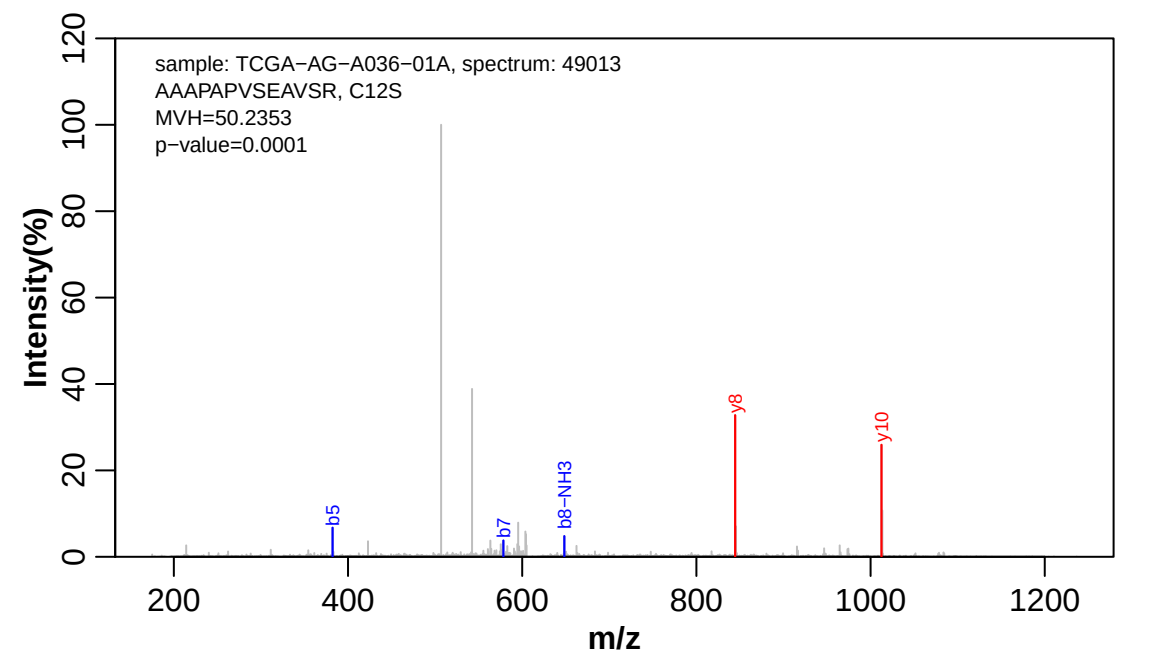

sample: TCGA−AG−A032−01A, spectrum: 95420
VQLPTESLQELLDLHR, T7S
MVH=30.7699
p−value=0.0001
y13++
y14++
b2
b3
b10++
b11++
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
m/z

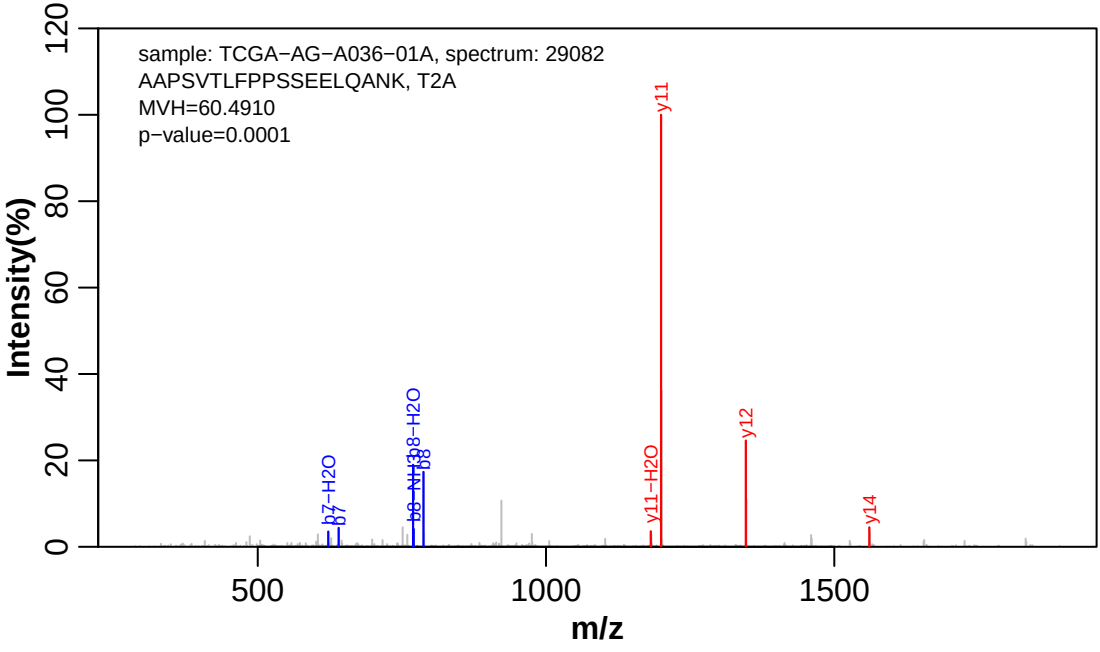

sample: TCGA−AG−A032−01A, spectrum: 7058
VVLQPEALFSLYSK, F8L
MVH=57.0440
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
1600
b3
y3
b4
y5
y6
y7
y10
y11
y12

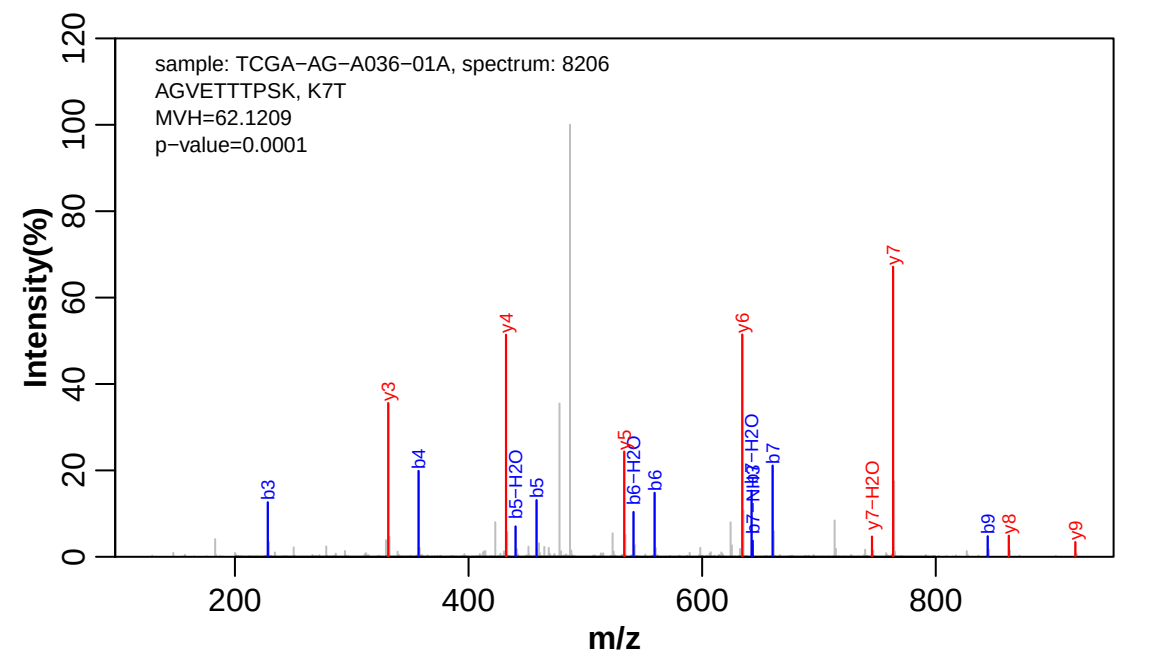

sample: TCGA−AG−A032−01A, spectrum: 98594
YPVDTLPTSK, I3V
MVH=39.6834
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z
b2
b3
y4
b4
y5
y6
b6
y7−H2O
y7
y8
b9−NH3

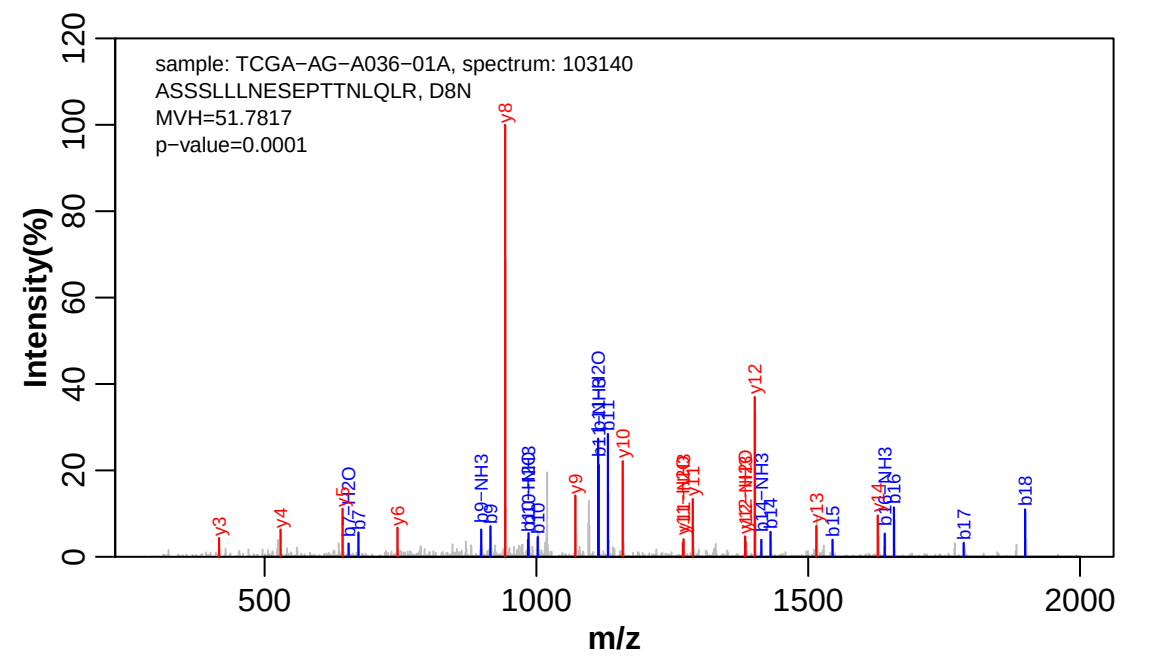

sample: TCGA−AG−A032−01A, spectrum: 58921
YVSLLYTNYEAGKDDYVK, I2V
MVH=29.9337
p−value=0.0001
b16++−N
y13++
b7
y15++
y12++
y5−H2O
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z

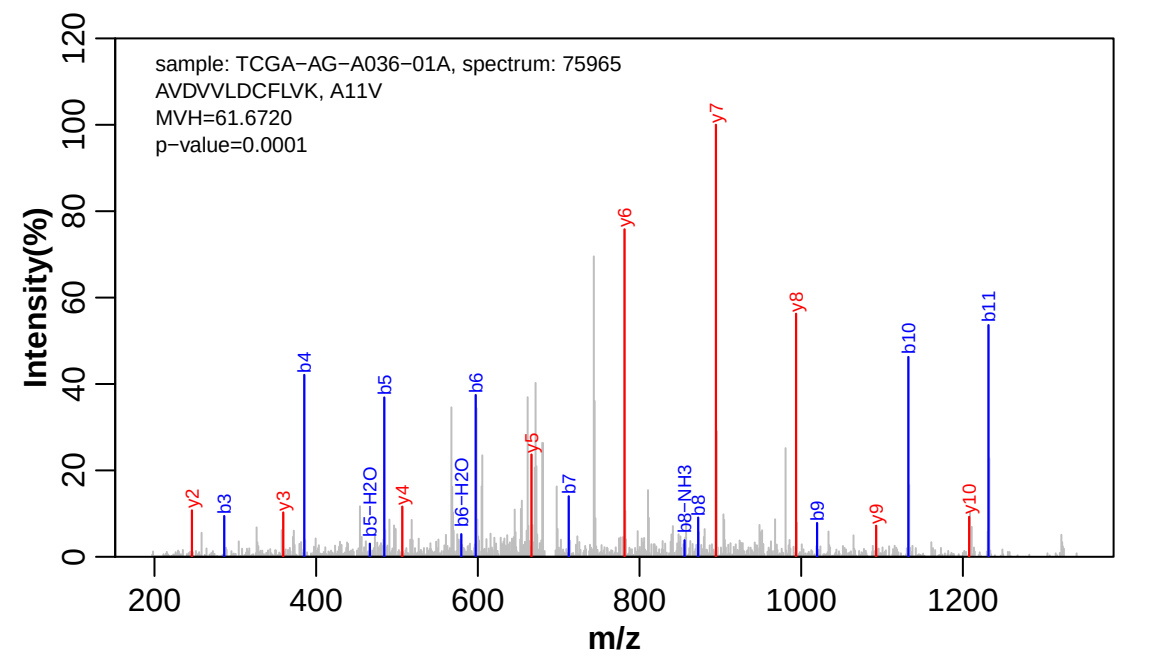

sample: TCGA−AG−A036−01A, spectrum: 28927
AAAAAAAAAPAAAATAATTAATTAATAAQ, P17A
MVH=41.5493
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
b9++−H2O
y4
y4−H2O
b6
y6
y6−H2O
b7
b8
b16++−H2O
b9
y15++−H2O
b20++−H2O
b21++
b22++
y21++−H2O
y11
b13−H2O
b25++
b26++
b27++−H2O
b28++
b15
y13
b16−H2O
b19
b24−NH3

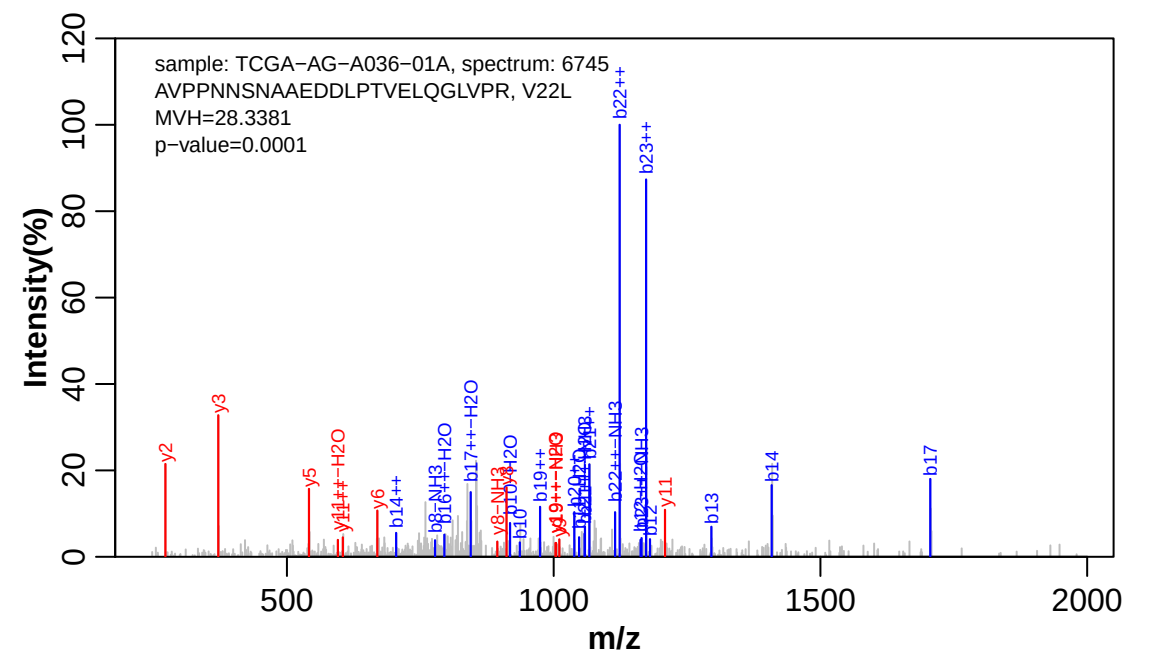

sample: TCGA−AG−A036−01A, spectrum: 49013
AAAPAPVSEAVSR, C12S
MVH=50.2353
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b5
b7
b8−NH3
y8
y10

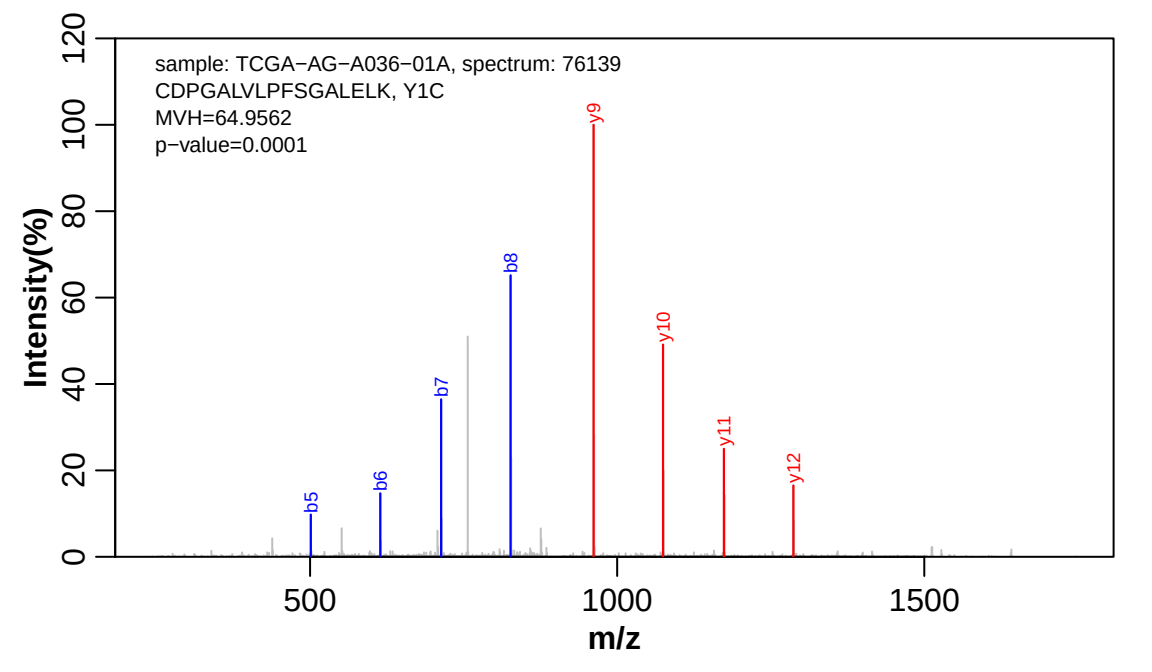

sample: TCGA−AG−A036−01A, spectrum: 29082
AAPSVTLFPPSSEELQANK, T2A
MVH=60.4910
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y11
y12
y14
y11−H2O
b7−H2O
b7
b8−NH3
b8
b8−H2O

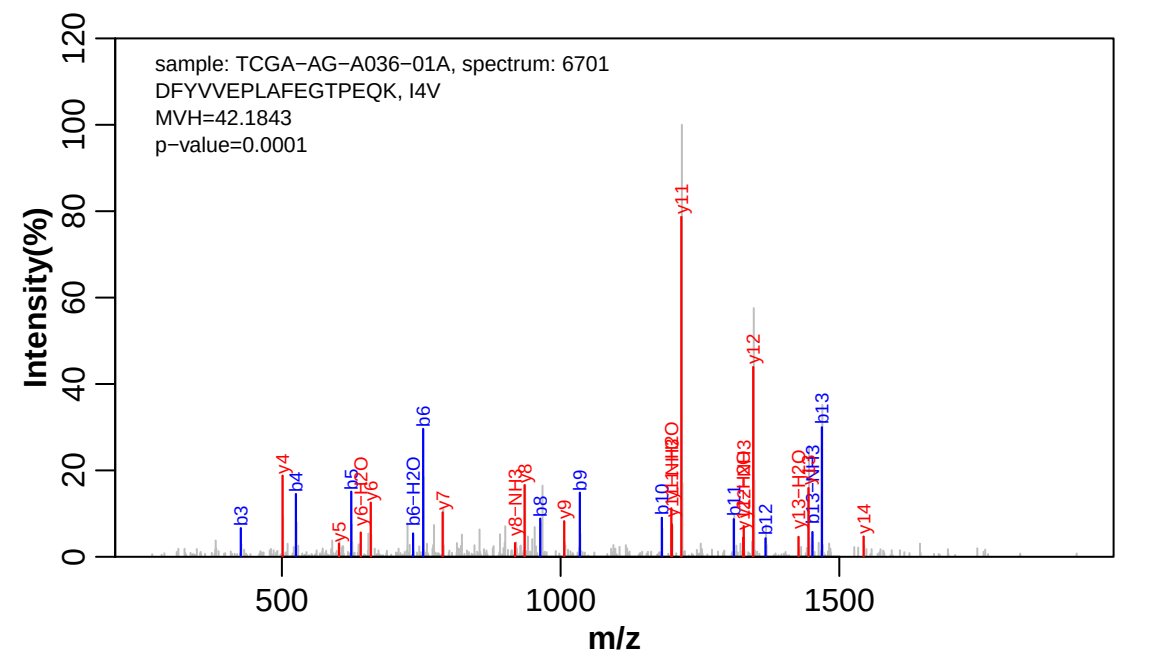

sample: TCGA−AG−A036−01A, spectrum: 8206
AGVETTTPSK, K7T
MVH=62.1209
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b3
y3
b4
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−NH3−H2O
b7
y7−H2O
y7
b9
y8
y9

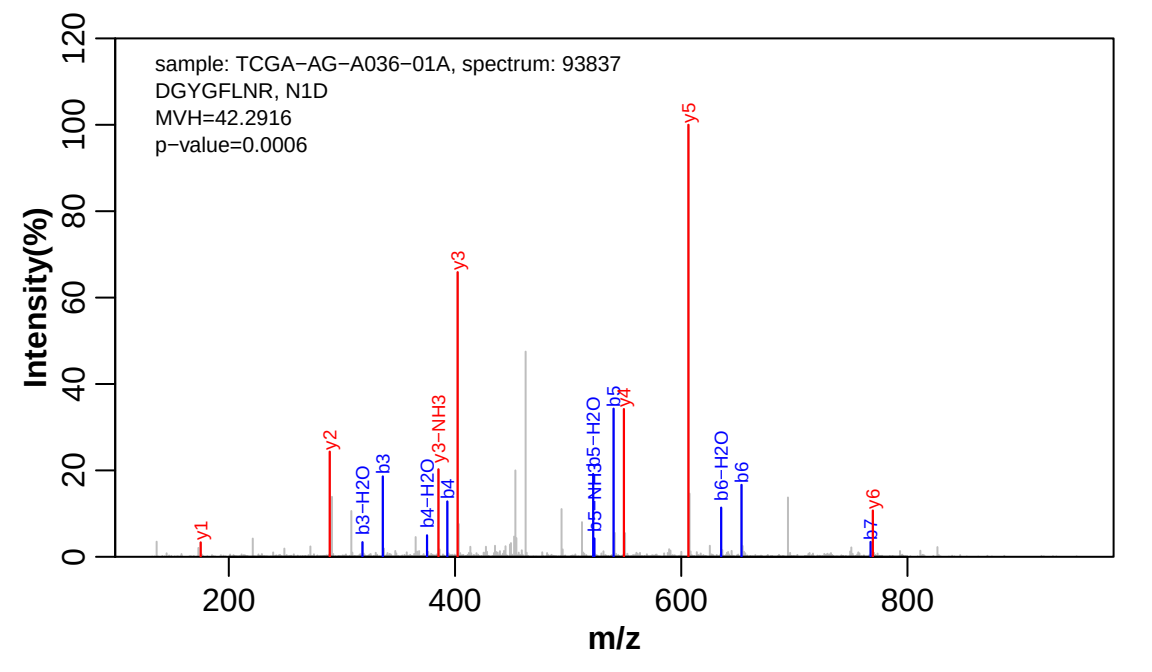

sample: TCGA−AG−A036−01A, spectrum: 103140
ASSSLLLNESEPTTNLQLR, D8N
MVH=51.7817
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y8
y12
y10
y9
y6
y4
y3
y13
b15
b17
b18
b14
b16
b11
b9
b7
y5

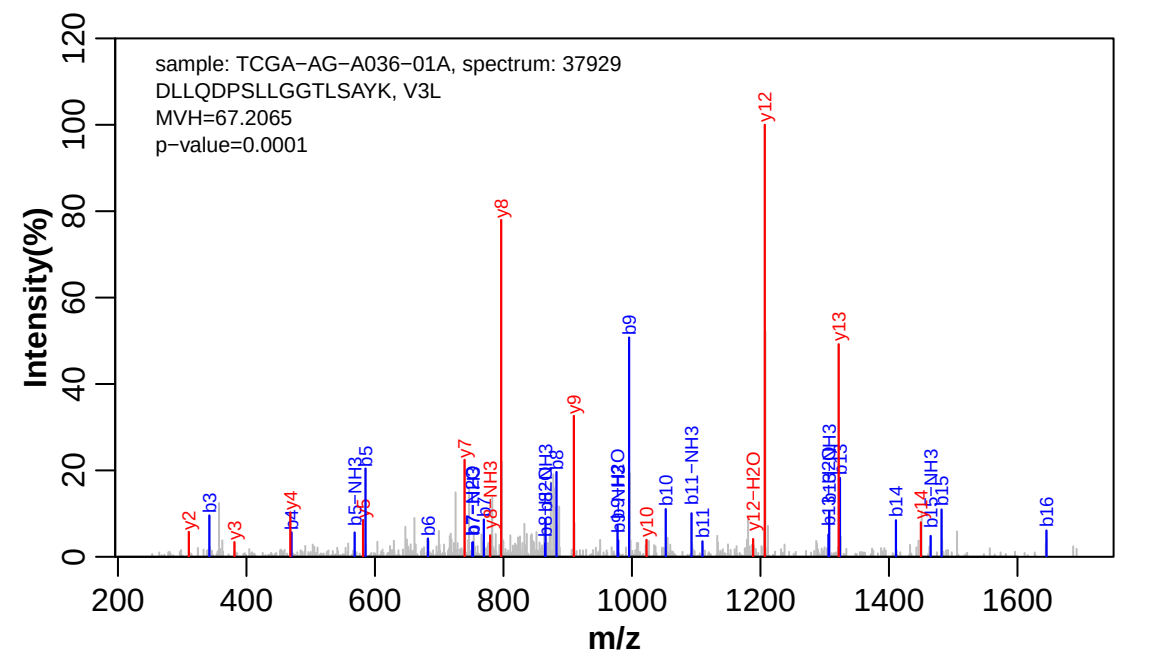

sample: TCGA−AG−A036−01A, spectrum: 75965
AVDVVLDCFLVK, A11V
MVH=61.6720
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3
b4
b5−H2O
b5
y4
b6−H2O
b6
y5
b7
b8−NH3
b8
y6
y7
y8
b9
y9
b10
y10
b11

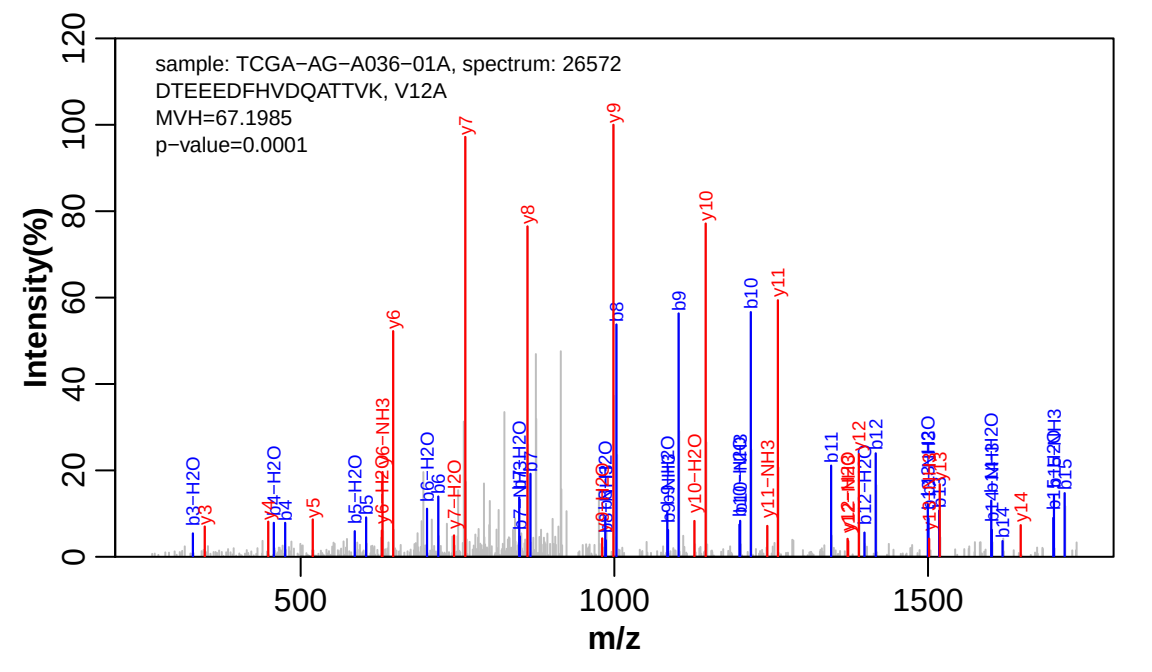

sample: TCGA−AG−A036−01A, spectrum: 6745
AVPPNNSNAAEDDLPTVELQGLVPR, V22L
MVH=28.3381
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y2
y3
y5
y6
b14++
b17++−H2O
b22++−NH3
b22++
b23++
y11
b13
b14
b17

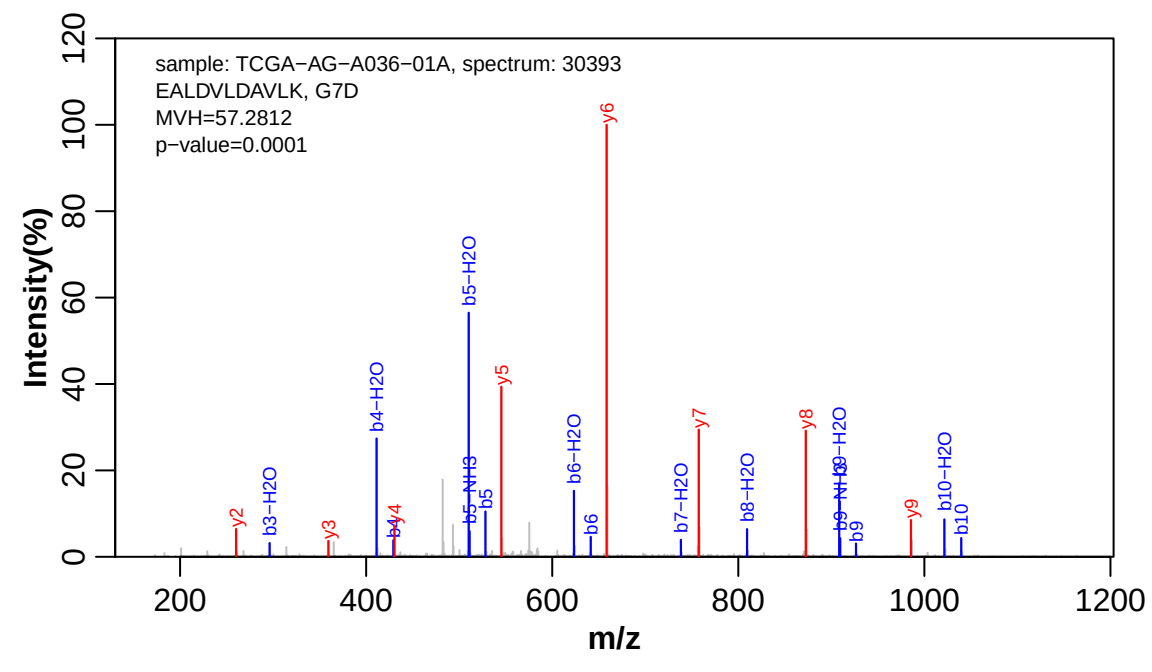

sample: TCGA−AG−A036−01A, spectrum: 76139
CDPGALVLPFSGALELK, Y1C
MVH=64.9562
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b5
b6
b7
b8
y9
y10
y11
y12

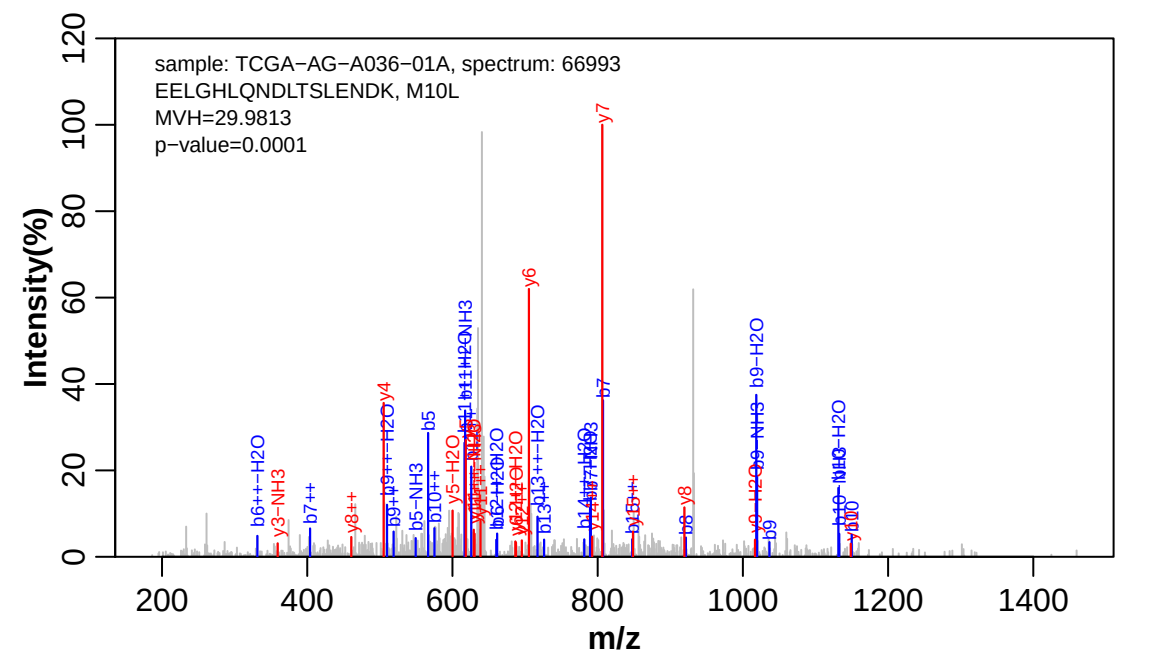

sample: TCGA−AG−A036−01A, spectrum: 6701
DFYVVEPLAFEGTPEQK, I4V
MVH=42.1843
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b3
y4
b4
y5
b5
y6−H2O
y6
b6−H2O
b6
y7
y8−NH3
y8
b8
y9
b9
b10
y11
y11−NH3−H2O
y11−NH3
b11
y12−H2O
y12−NH3
y12
b12
y13−H2O
y13−NH3
b13
y14

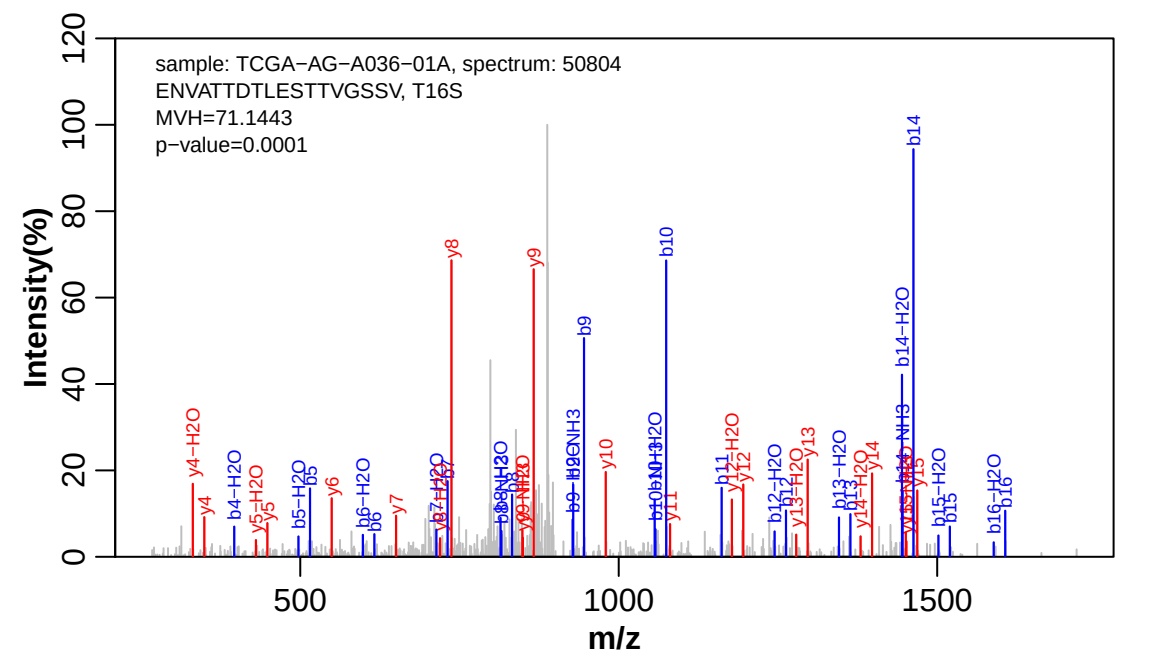

sample: TCGA−AG−A036−01A, spectrum: 93837
DGYGFLNR, N1D
MVH=42.2916
p−value=0.0006
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y1
y2
b3−H2O
b3
b4−H2O
y3−NH3
b4
y3
b5−NH3
b5−H2O
b5
y4
y5
b6−H2O
b6
b7
y6

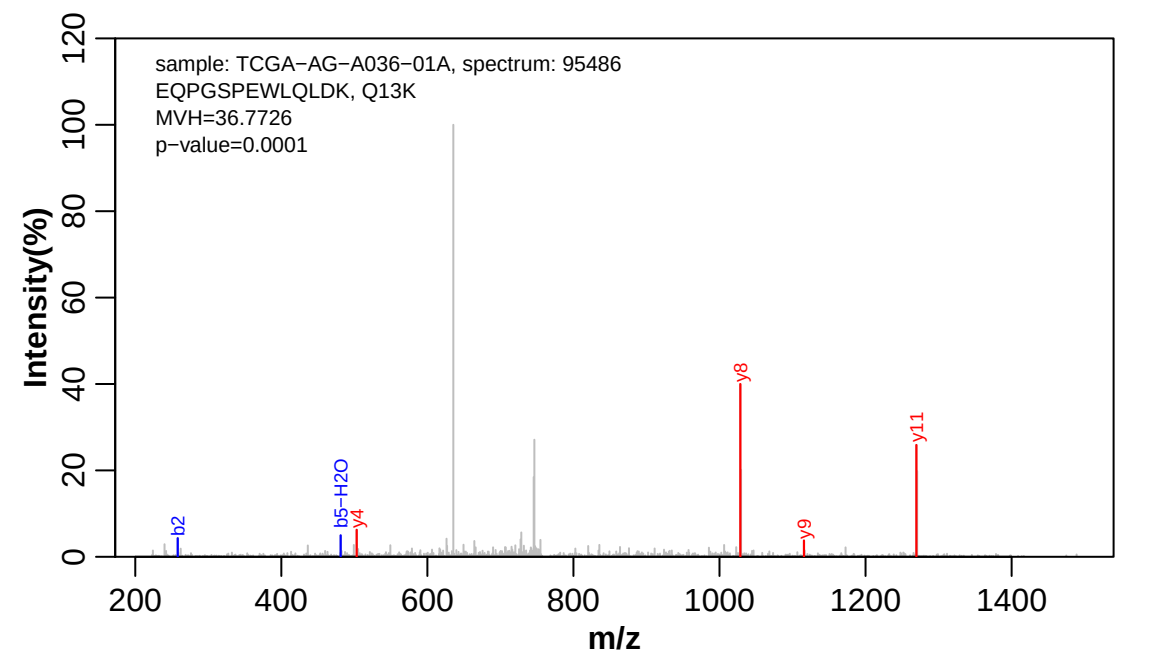

sample: TCGA−AG−A036−01A, spectrum: 37929
DLLQDPSLLGGTLSAYK, V3L
MVH=67.2065
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y3
b4
y4
b5−NH3
b5
y5
b6
y7
b7−NH3
b7
y8
b8
y9
b9
b9−NH3
b9−H2O
y10
b10
b11−NH3
b11
y12−H2O
y12
b13−NH3
b13−H2O
b13
y13
b14
y14
b15−NH3
b15
b16

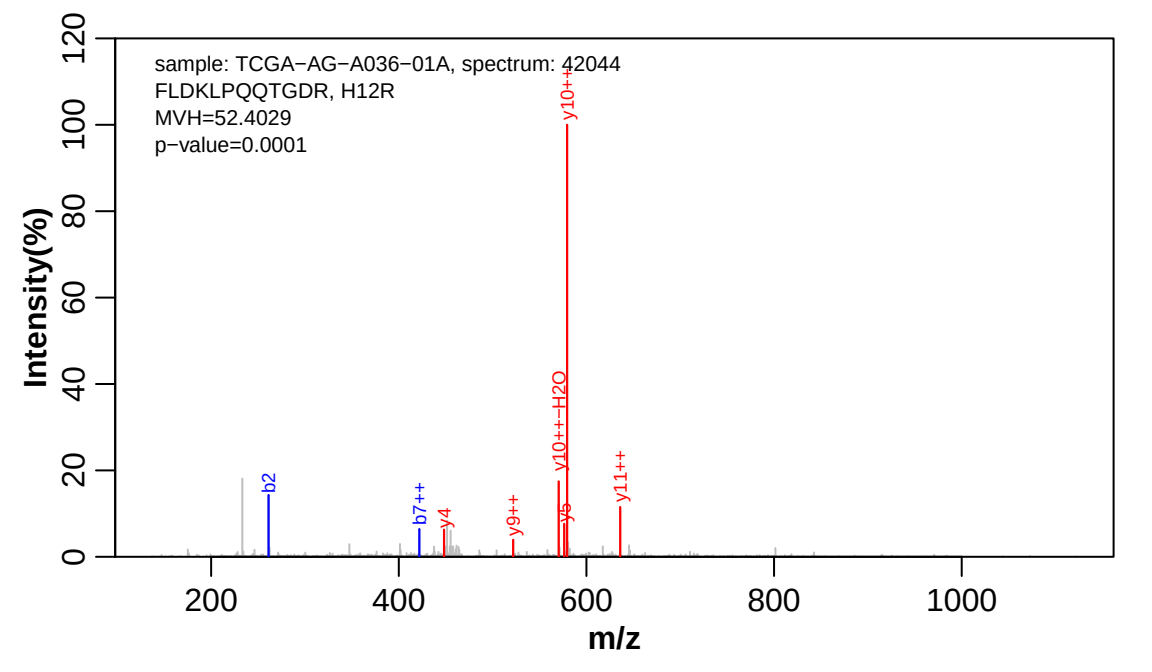

sample: TCGA−AG−A036−01A, spectrum: 26572
DTEEEDFHVDQATTVK, V12A
MVH=67.1985
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y9
y7
y8
y10
y6
y6−NH3
b8
b9
b10
y11
y10−H2O
y11−NH3
y7−H2O
b6−H2O
y6−H2O
b5−H2O
y4−H2O
b3−H2O
y3
y4
b4
y5
b5
b6
b7
b11
b12
y12
y14
b15

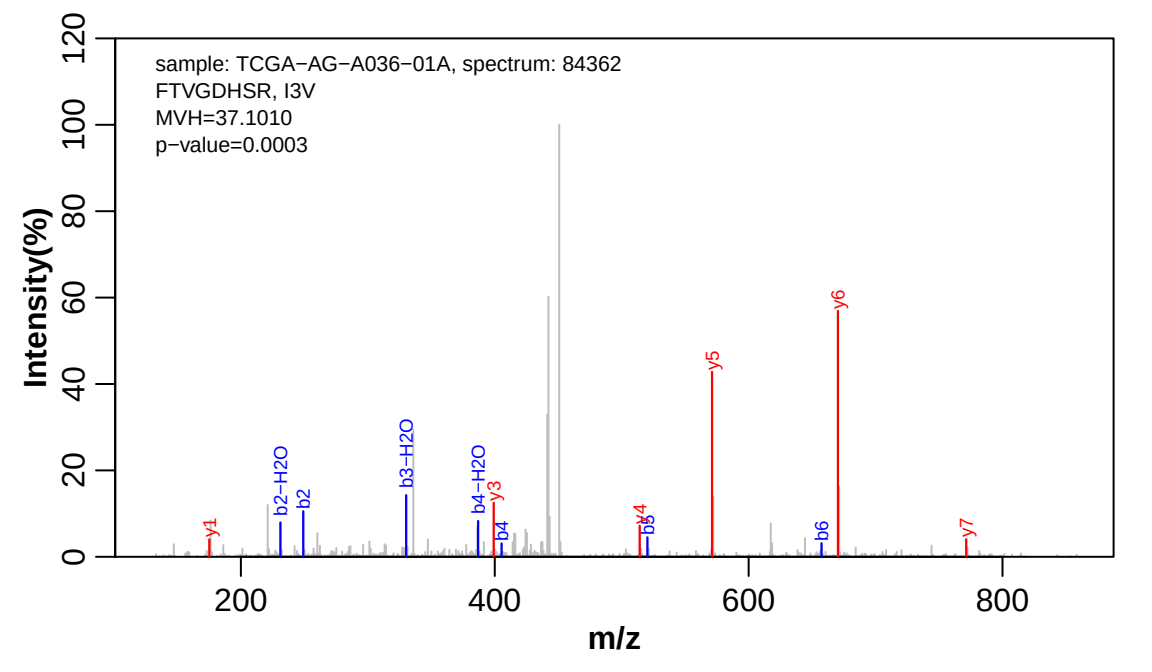

sample: TCGA−AG−A036−01A, spectrum: 30393
EALDVLDAVLK, G7D
MVH=57.2812
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3−H2O
y3
b4−H2O
b4
b5−NH3
b5
b5−H2O
y5
y6
b6−H2O
b6
b7−H2O
y7
b8−H2O
y8
b9−NH3
b9
b9−H2O
y9
b10−H2O
b10

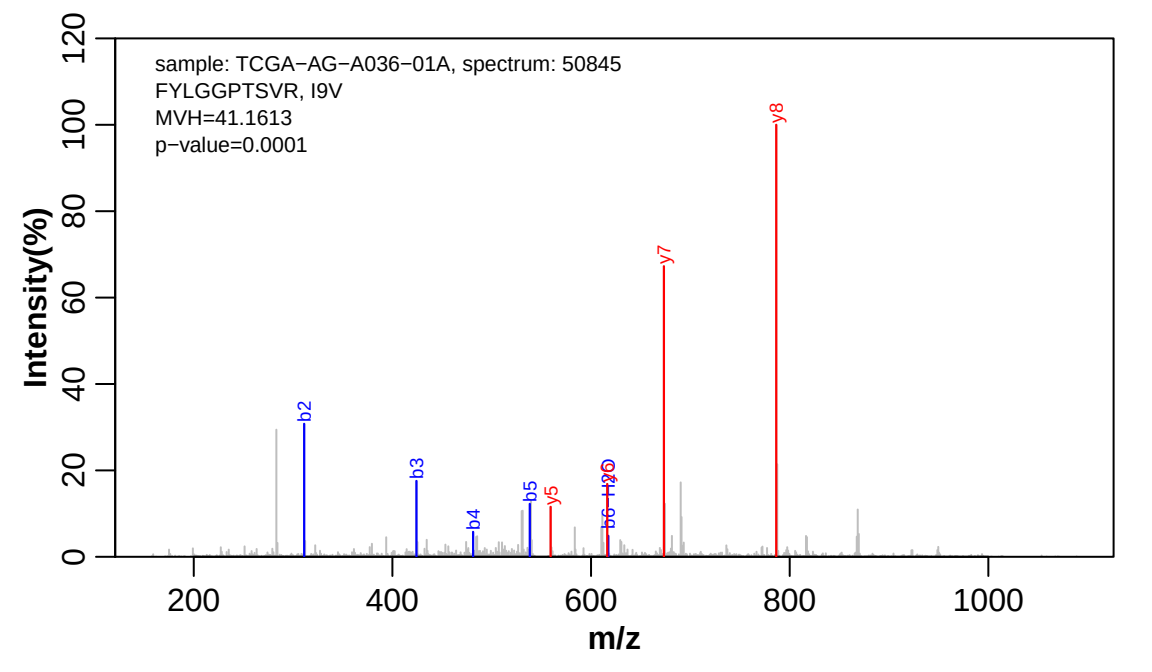

sample: TCGA−AG−A036−01A, spectrum: 66993
EELGHLQNDLTSLENDK, M10L
MVH=29.9813
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y7
y6
y4
b7
b5
b9−H2O
b9−NH3
b10−H2O
b6++−H2O
y3−NH3
b7++
y8++
b9++
b9++−H2O
b5−NH3
b10++
y5−H2O
b13++−H2O
b15++
b8−y8

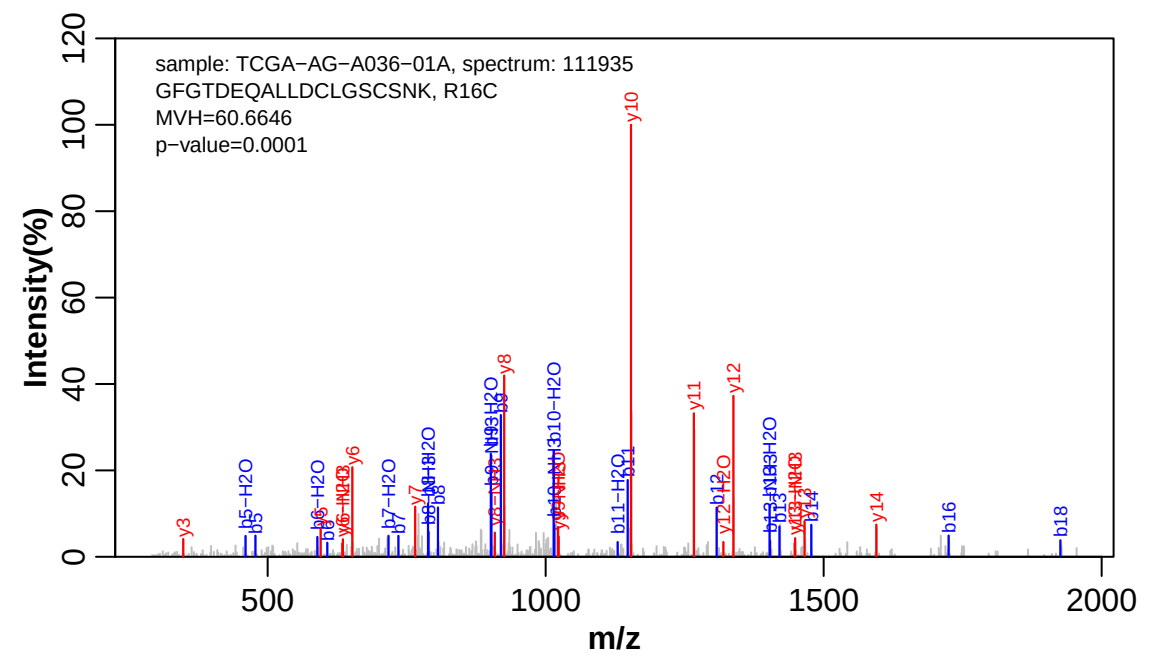

sample: TCGA−AG−A036−01A, spectrum: 50804
ENVATTDTLESTTVGSSV, T16S
MVH=71.1443
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4−H2O
y4
b4−H2O
y5−H2O
y5
b5−H2O
b5
y6
b6−H2O
b6
y7
y8
y9
b10
b9
y10
b14
b14−H2O
y11
y12−H2O
y12
b11
b12−H2O
y13−H2O
y13
b13−H2O
b13
y14−H2O
y14
b15−H2O
b15
b16−H2O
b16

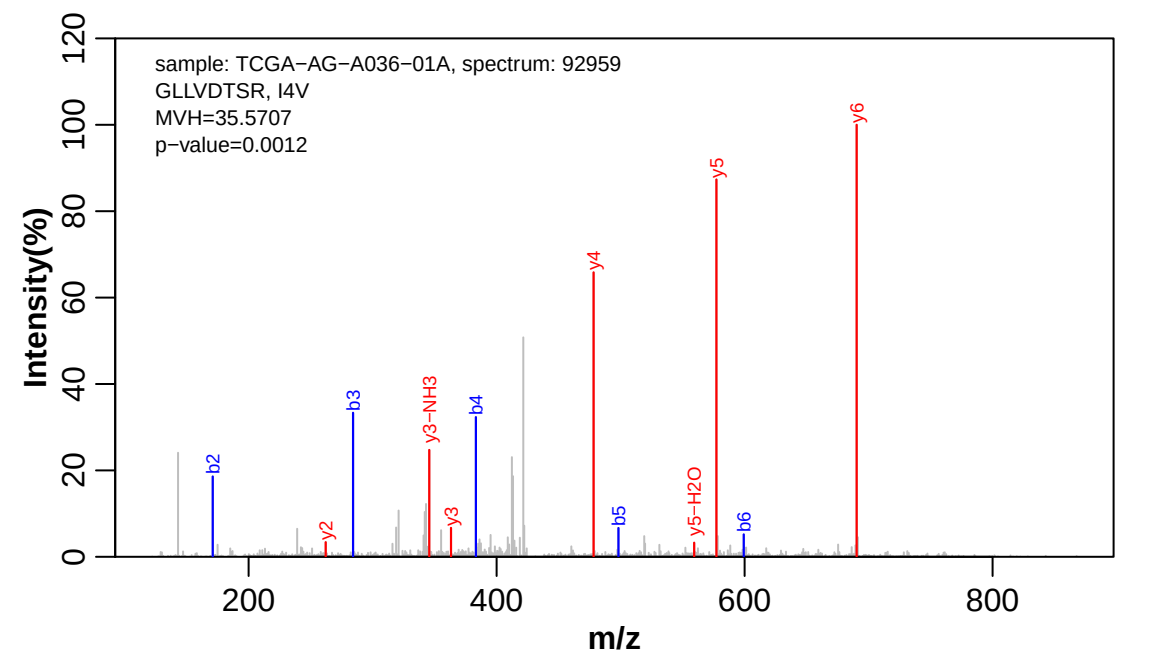

sample: TCGA−AG−A036−01A, spectrum: 95486
EQPGSPEWLQLDK, Q13K
MVH=36.7726
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
1000
1200
1400
b2
b5−H2O
y4
y8
y9
y11

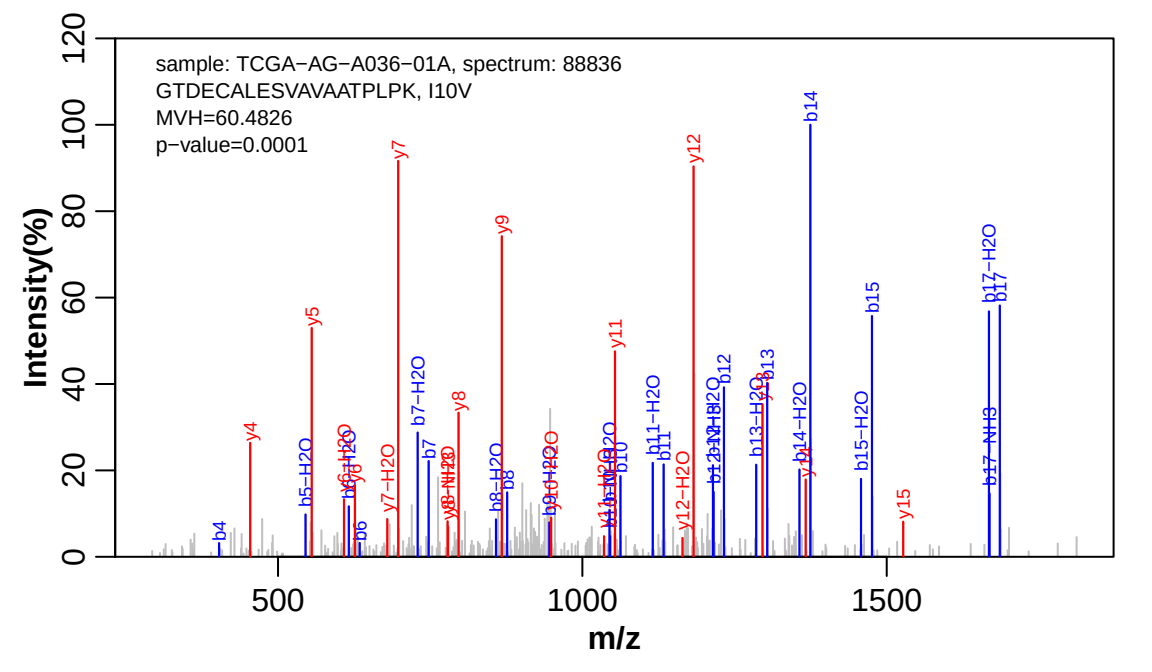

sample: TCGA−AG−A036−01A, spectrum: 42044
FLDKLPQQTGDR, H12R
MVH=52.4029
p−value=0.0001
y10++
y10++−H2O
y11++
b2
b7++
y4
y9++
y5
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
m/z

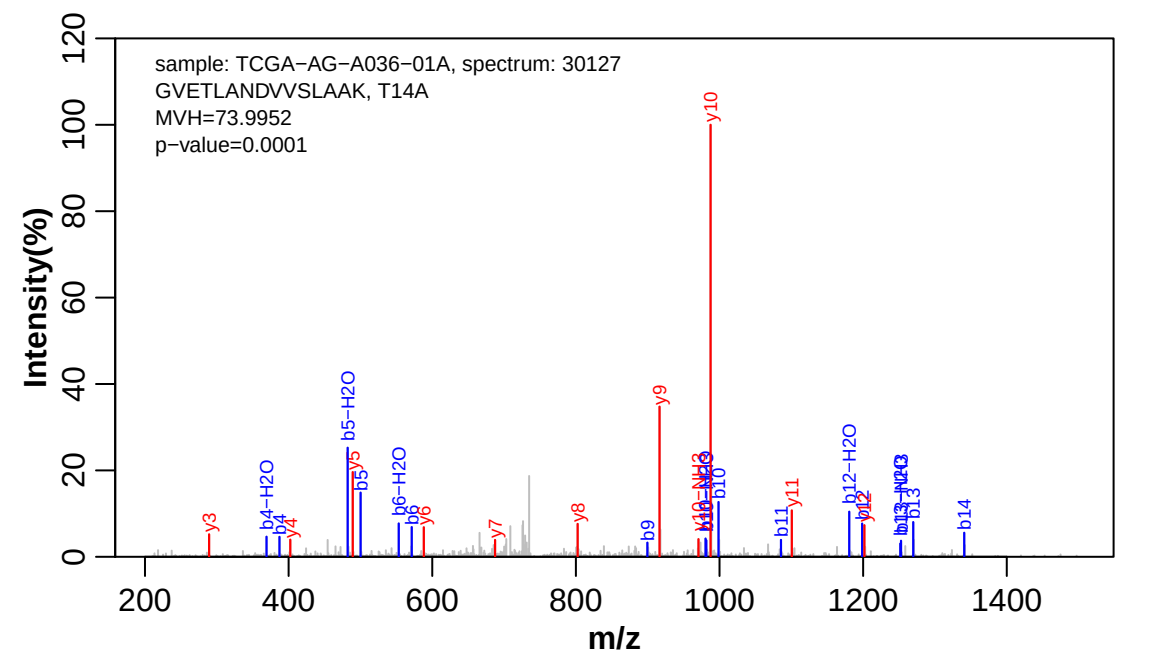

sample: TCGA−AG−A036−01A, spectrum: 84362
FTVGDHSR, I3V
MVH=37.1010
p−value=0.0003
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
y1
b2−H2O
b2
b3−H2O
b4−H2O
y3
b4
y4
b5
y5
y6
b6
y7

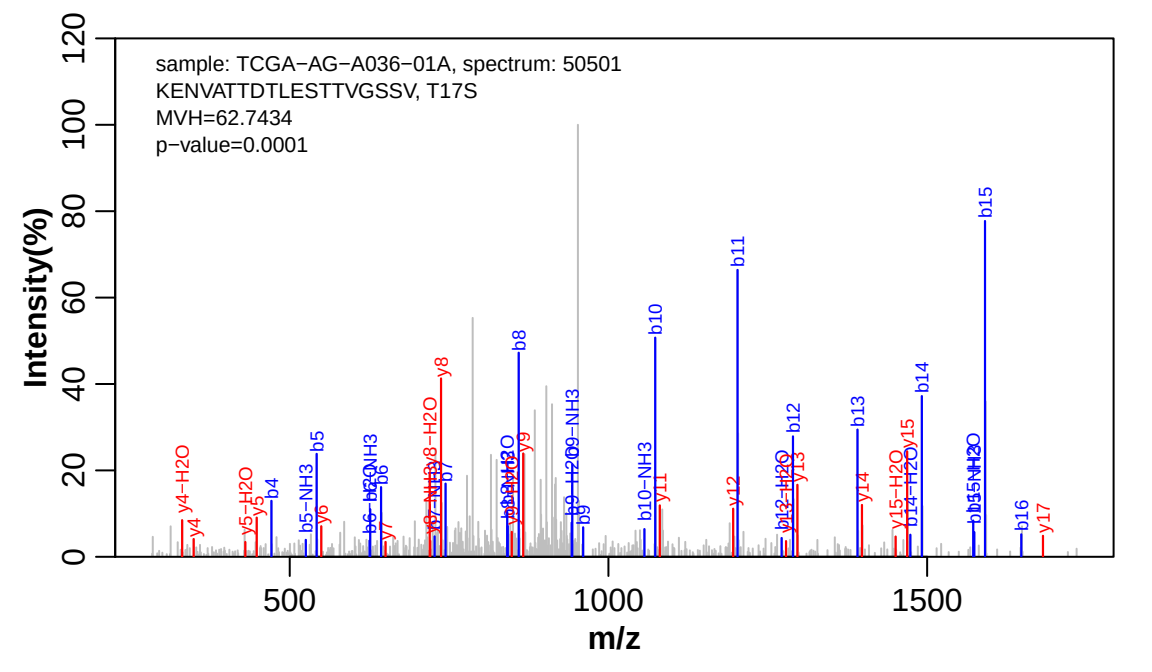

sample: TCGA−AG−A036−01A, spectrum: 50845
FYLGGPTSVR, I9V
MVH=41.1613
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
b2
b3
b4
b5
y5
b6−H2O
y7
y8

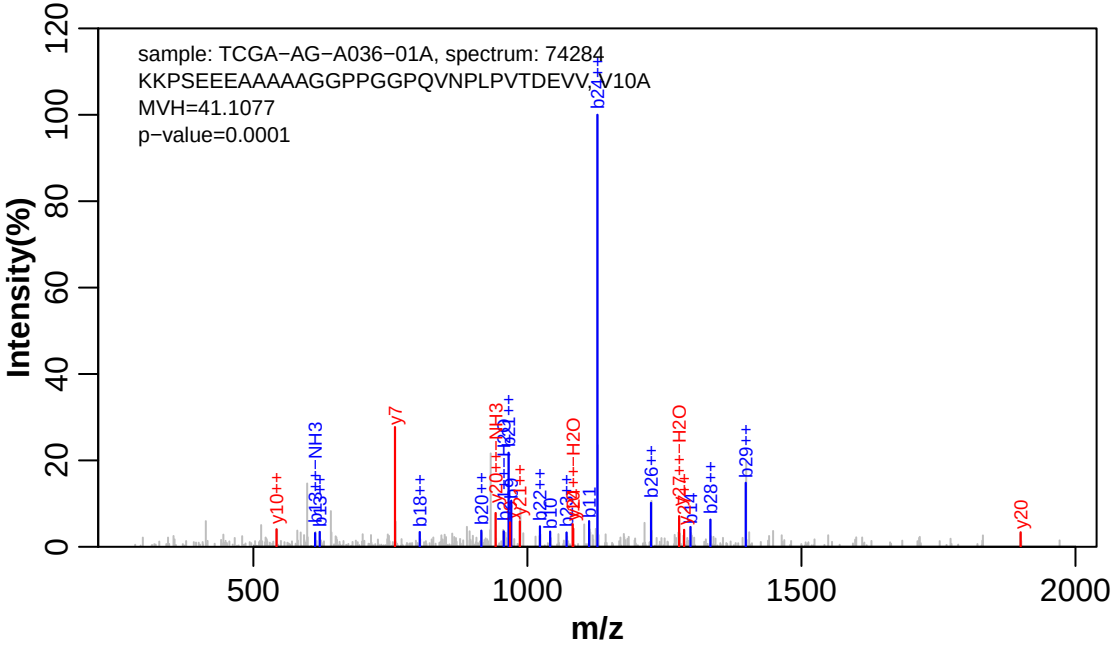

sample: TCGA−AG−A036−01A, spectrum: 111935
GFGTDEQALLDCLGSCSNK, R16C
MVH=60.6646
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
y10
y8
y11
y12
y14
b16
b18
y3
y6
y7
b8
b11−H2O
b10−H2O
b5−H2O
b6−H2O
b7−H2O

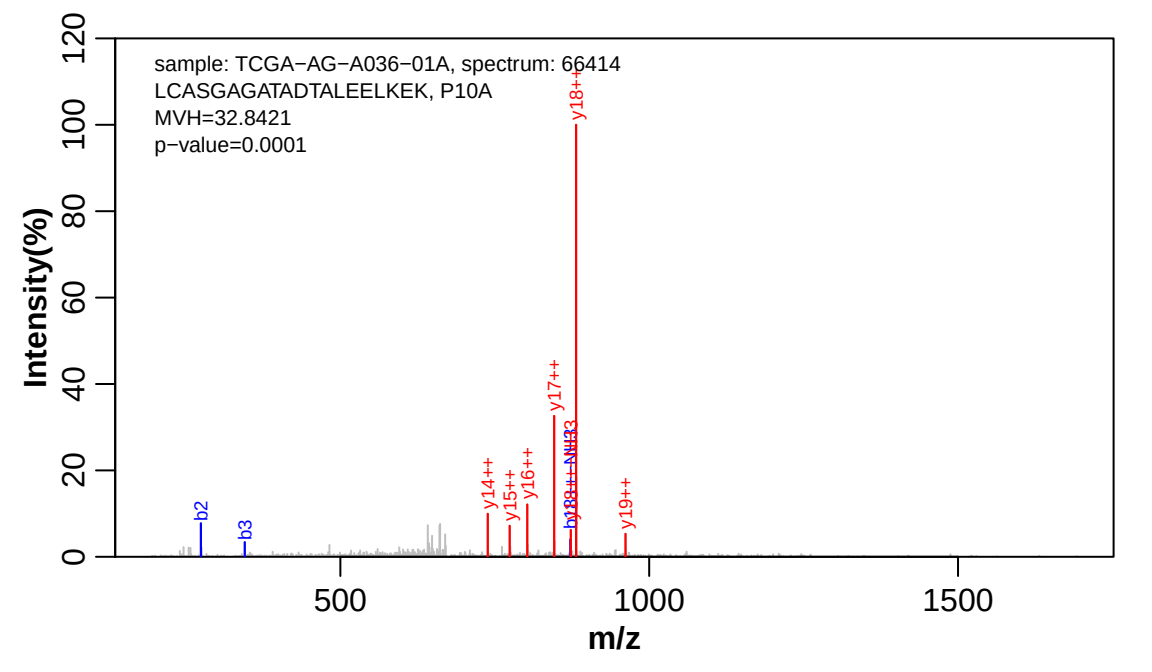

sample: TCGA−AG−A036−01A, spectrum: 92959
GLLVDTSR, I4V
MVH=35.5707
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3−NH3
y3
b4
y4
b5
y5−H2O
y5
b6
y6

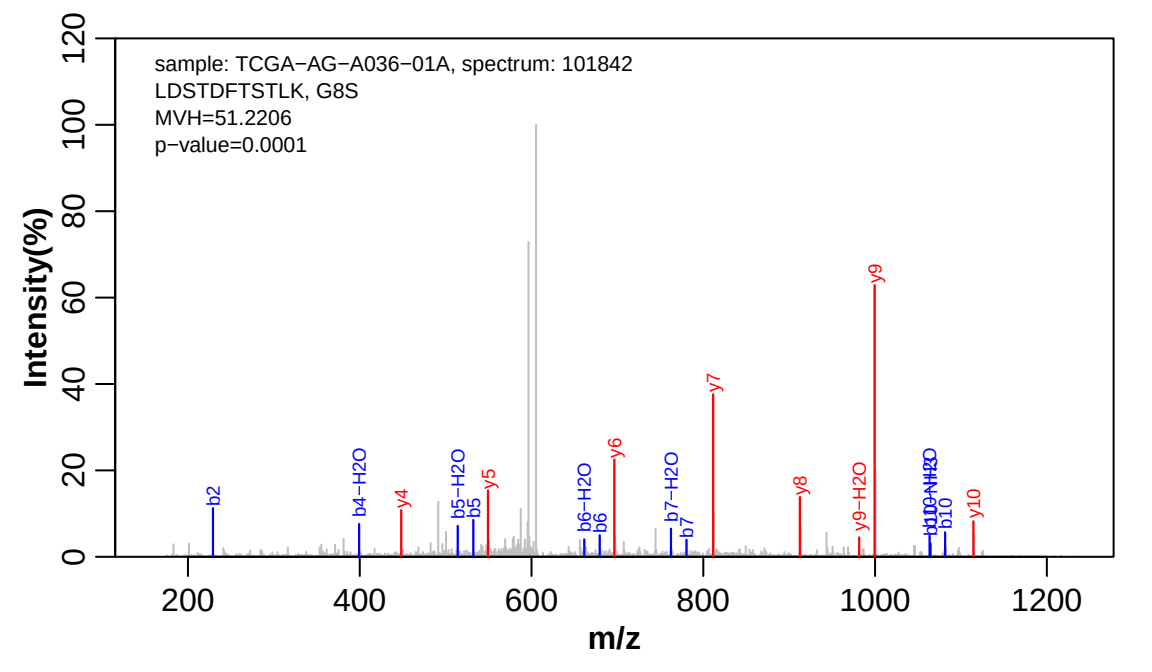

sample: TCGA−AG−A036−01A, spectrum: 88836
GTDECALESVAVAATPLPK, I10V
MVH=60.4826
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b4
y4
b5−H2O
y5
b6−H2O
b6
y6
y7−H2O
y7
b7−H2O
b7
y8
b8−H2O
b8
y9
y11
b11−H2O
b11
y12−H2O
y12
b12
b13−H2O
b13
b14
y14−H2O
b15−H2O
b15
y15
b17−NH3
b17−H2O
b17

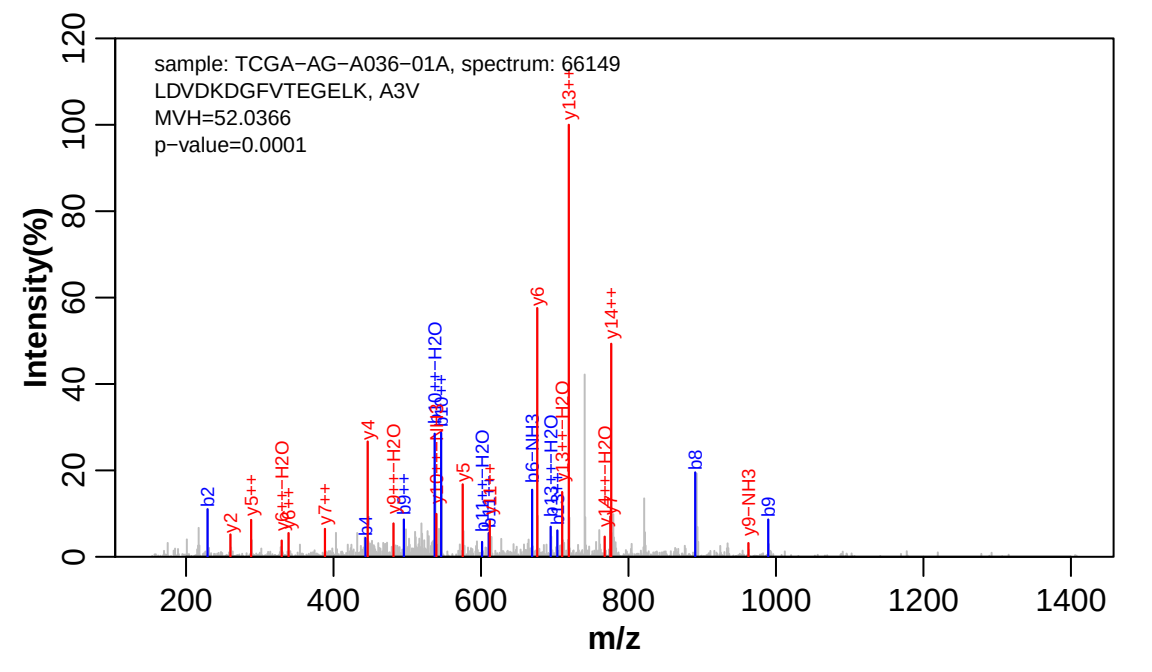

sample: TCGA−AG−A036−01A, spectrum: 30127
GVETLANDVVSLAAK, T14A
MVH=73.9952
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
y3
b4−H2O
b4
y4
b5−H2O
y5
b5
b6−H2O
b6
y6
y7
y8
y9
b9
b10−NH3
b10
y10
b11
y11
b12−H2O
y12
b13−NH3
b13
b14

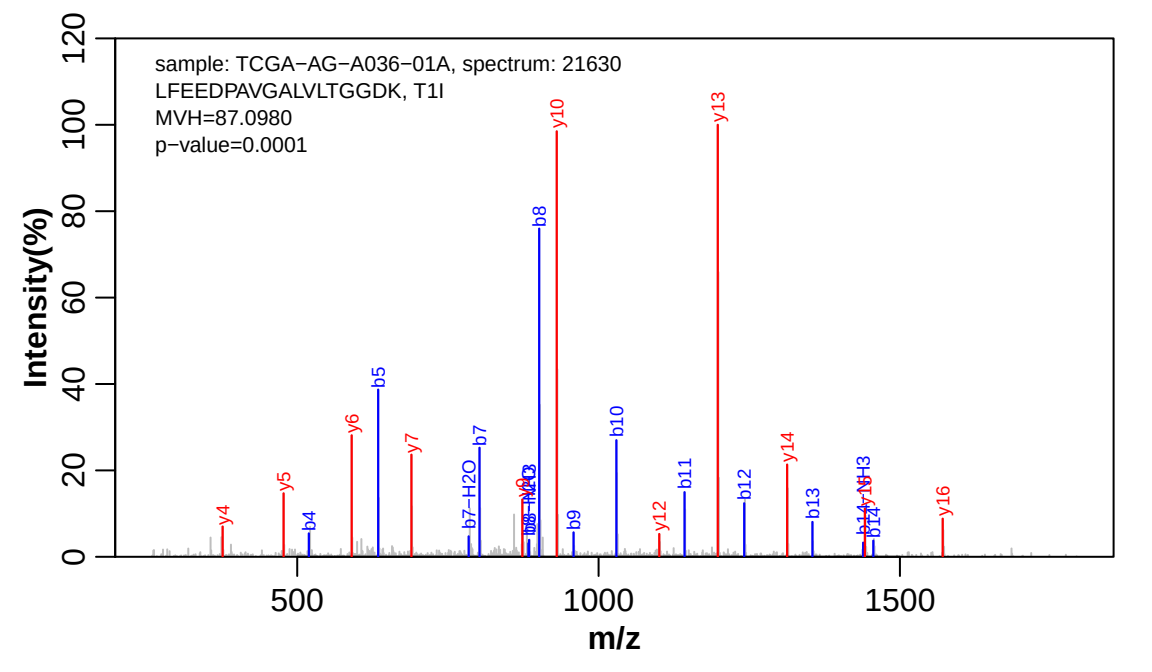

sample: TCGA−AG−A036−01A, spectrum: 50501
KENVATTDTLESTTVGSSV, T17S
MVH=62.7434
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4−H2O
y4
y5−H2O
y5
b4
b5−NH3
b5
y6
b6−NH3
b6
y7
y8−NH3
y8−H2O
y8
b7
b8
y9
b9−H2O
b9−NH3
b9
b10−NH3
b10
y11
y12
b11
b12−H2O
b12
y13
b13
y14
y15−H2O
y15
b14−H2O
b14
b15−NH3
b15
b16
y17

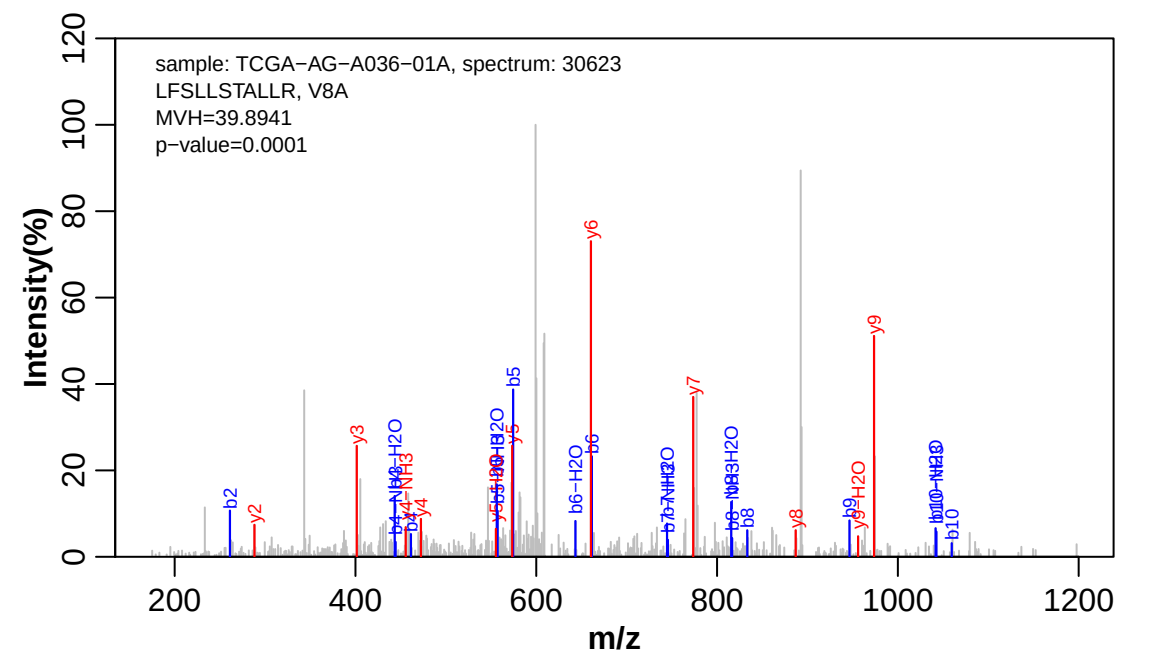

sample: TCGA−AG−A036−01A, spectrum: 74284
KKPSEEEAAAAAGGPPGGPQVNPLPVTDEVV−V10A
MVH=41.1077
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
2000
b24++
y7
b18++
b20++
b26++
b28++
b29++
y20
y10++

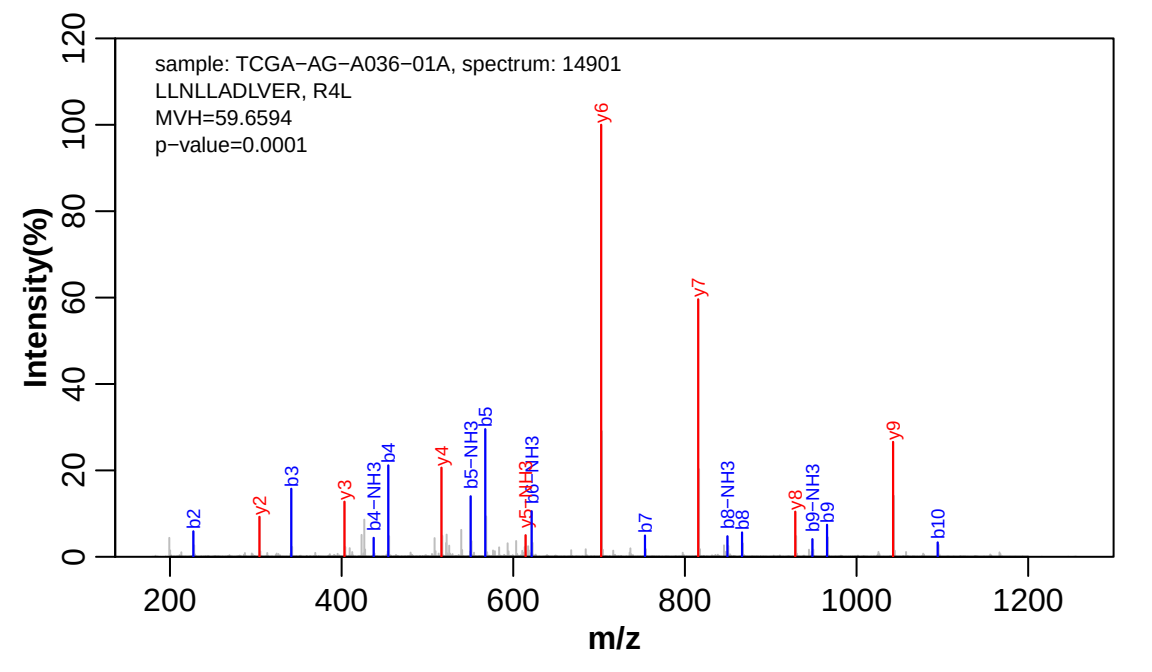

sample: TCGA−AG−A036−01A, spectrum: 66414
LCASGAGATADTALEELKEK, P10A
MVH=32.8421
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
b2
b3
y14++
y15++
y16++
y17++
y18++
y19++

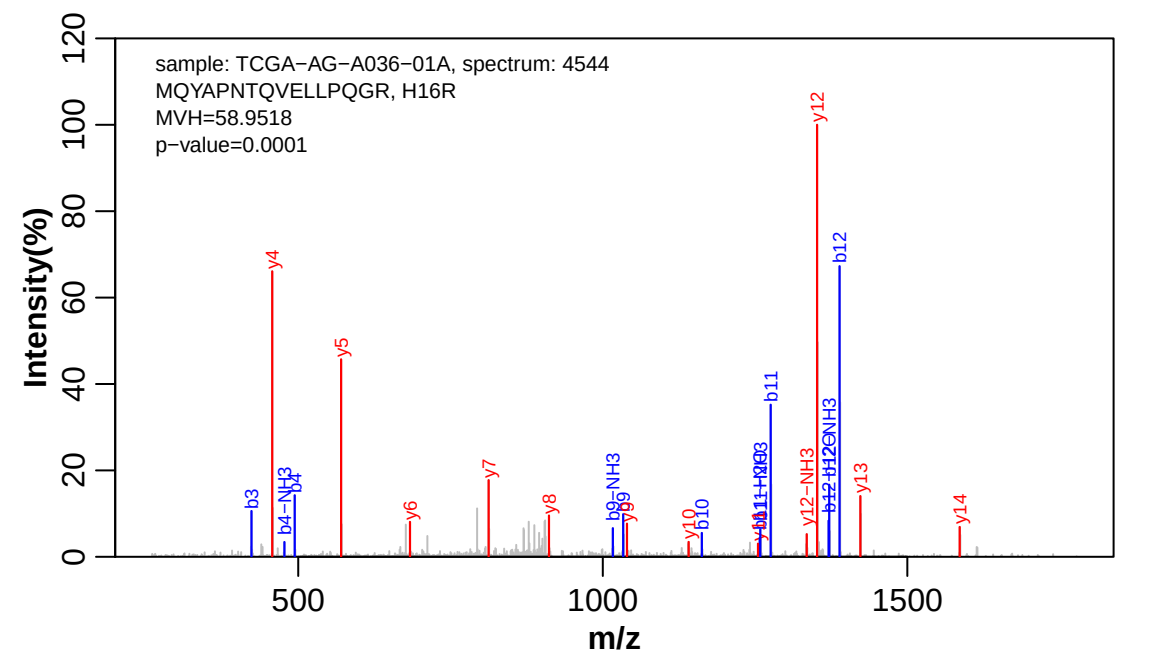

sample: TCGA−AG−A036−01A, spectrum: 101842
LDSTDFTSTLK, G8S
MVH=51.2206
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
b4−H2O
y4
b5−H2O
b5
y5
b6−H2O
b6
y6
b7−H2O
b7
y7
y8
y9−H2O
y9
b10−H2O
b10
y10

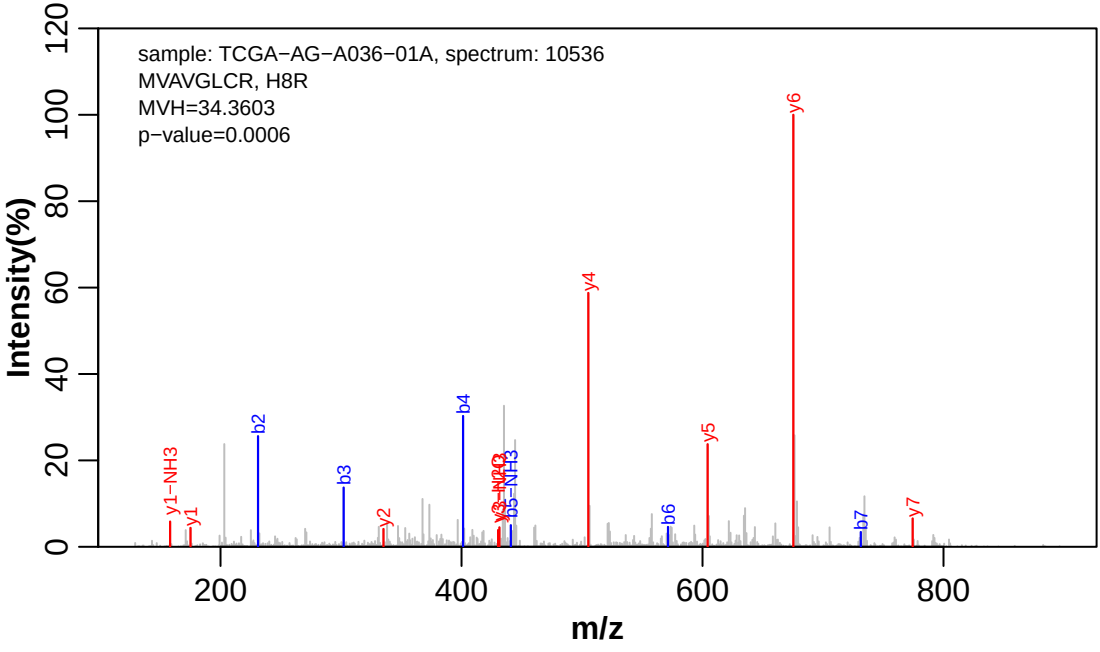

sample: TCGA−AG−A036−01A, spectrum: 66149
LDVDKDGFVTEGELK, A3V
MVH=52.0366
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
b2
y2
y5++
y6++−H2O
y7++
b4
y4
y8++−H2O
b9++
y10++−H2O
y5
b11++−H2O
b11++
y6
b6−NH3
b13++−H2O
y13++
y13++−H2O
y13++
y14++
y14++−H2O
b8
y9−NH3
b9

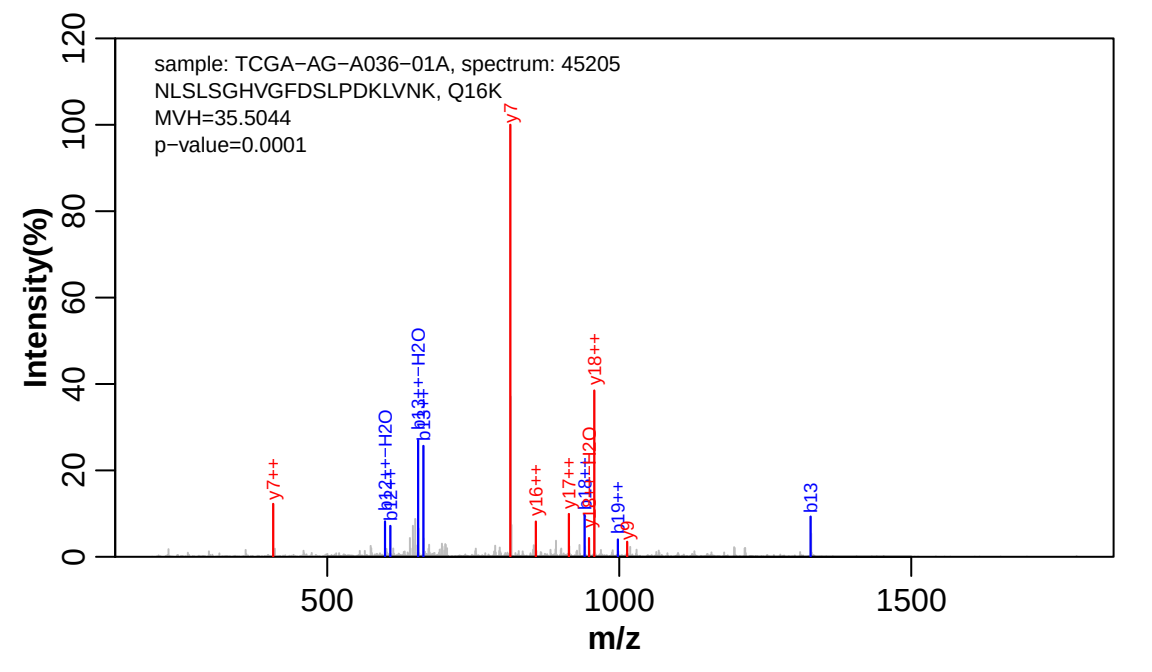

sample: TCGA−AG−A036−01A, spectrum: 21630
LFEEDPAVGALVLTGGDK, T1I
MVH=87.0980
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y4
y5
b4
y6
b5
y7
b7
b7−H2O
b8
y10
b9
b10
y12
b11
y13
b12
y14
b13
y16

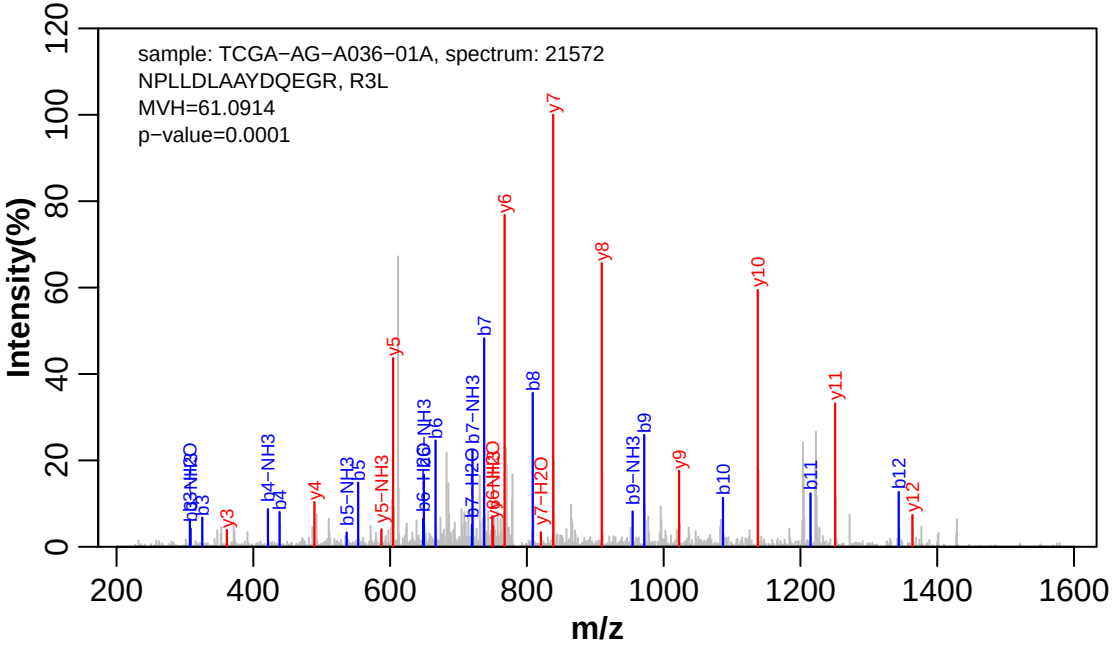

sample: TCGA−AG−A036−01A, spectrum: 30623
LFSLLSTALLR, V8A
MVH=39.8941
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
y3
b4−NH3
b4−H2O
b4
y4
b5
y5
y5−H2O
b6
b6−H2O
y6
b7−NH3
b7−H2O
y7
b8−NH3
b8−H2O
b8
y8
b9
y9
y9−H2O
b10−NH3
b10−H2O
b10

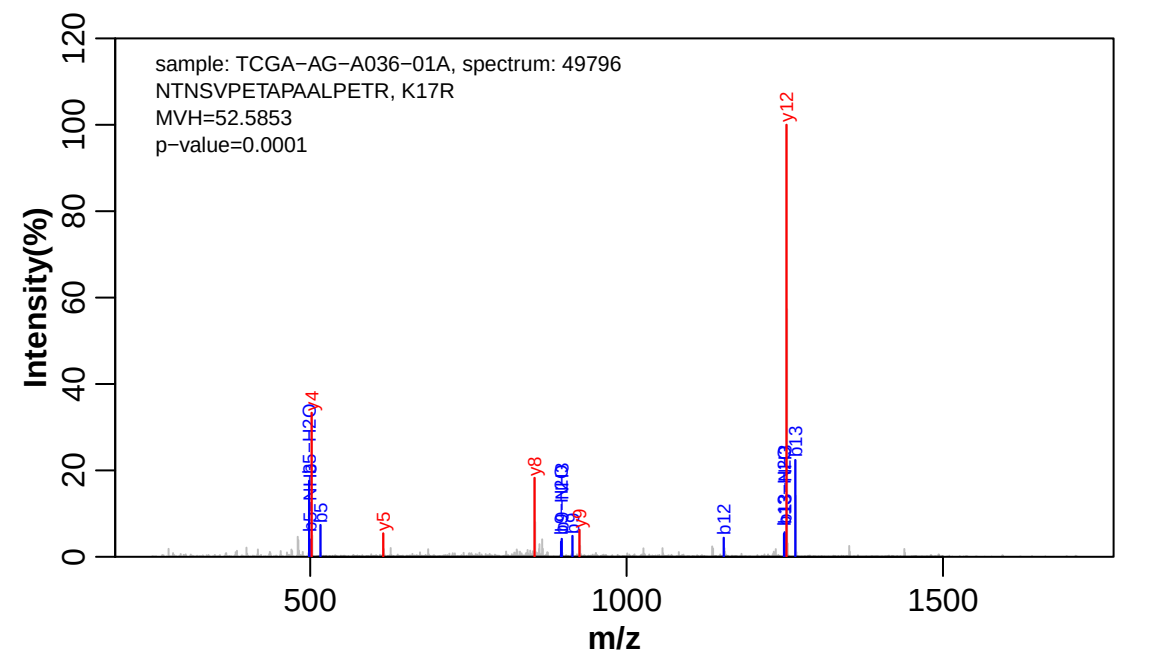

sample: TCGA−AG−A036−01A, spectrum: 14901
LLNLLADLVER, R4L
MVH=59.6594
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
b2
y2
b3
y3
b4−NH3
b4
y4
b5−NH3
b5
y5−NH3
b6−NH3
b7
y6
y7
b8−NH3
b8
y8
b9−NH3
b9
y9
b10

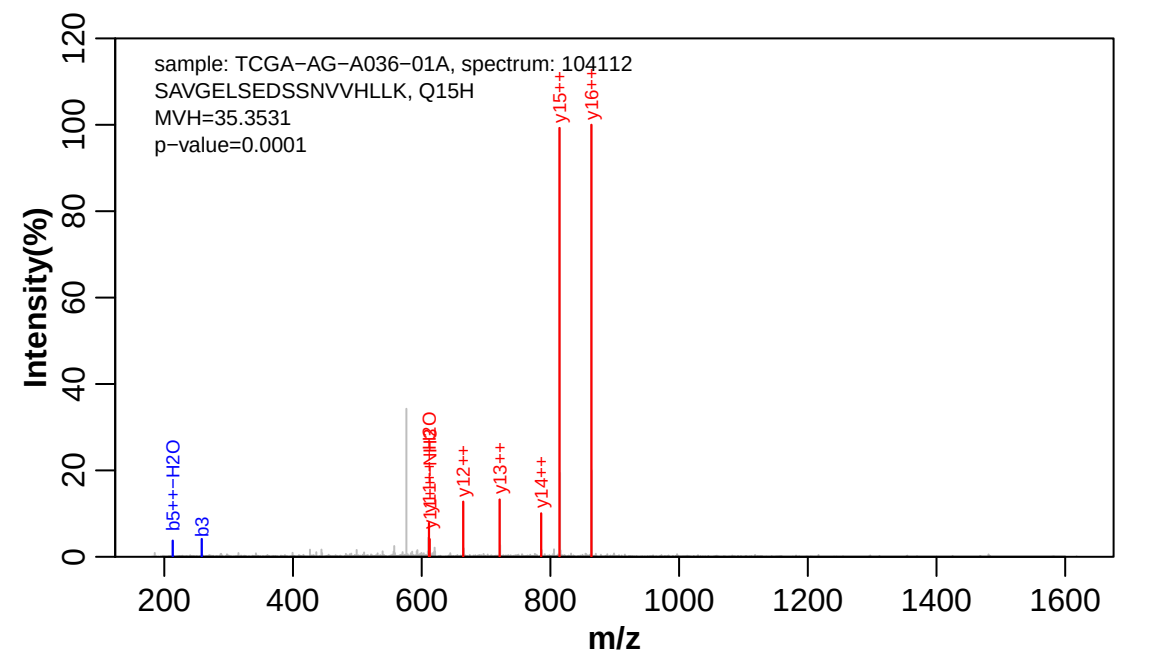

sample: TCGA−AG−A036−01A, spectrum: 4544
MQYAPNTQVELLPQGR, H16R
MVH=58.9518
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y4
y5
y6
y7
y8
y10
y12
y13
y14
b3
b4
b4−NH3
b9−NH3
b10
b11
b12
b12−NH3
y12−NH3

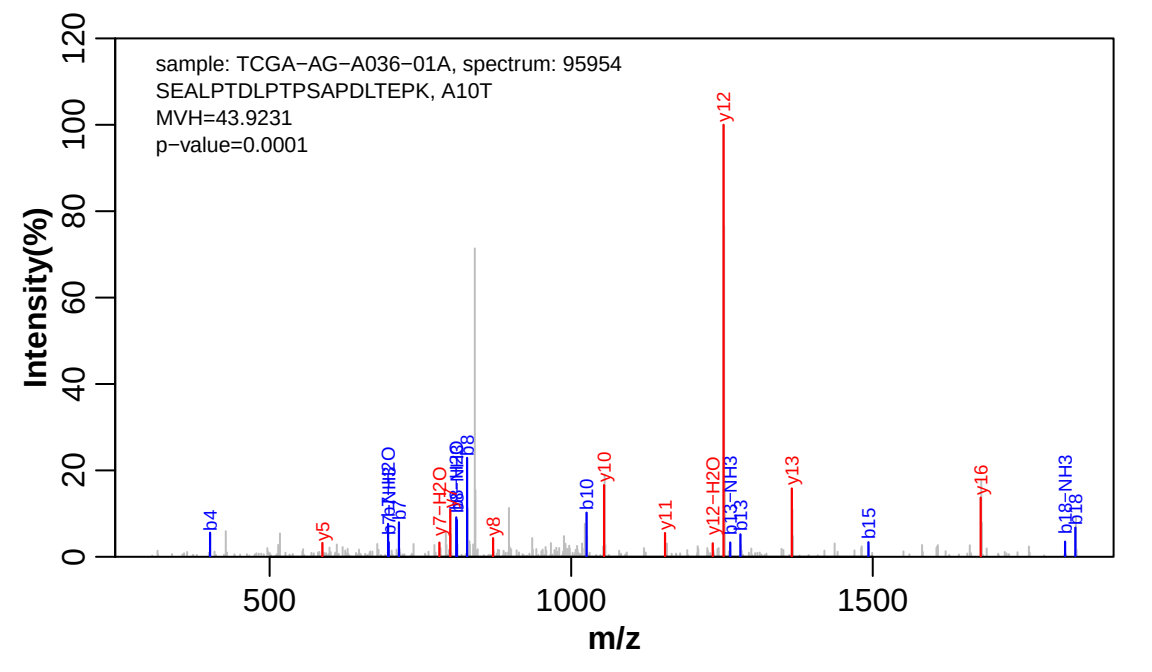

sample: TCGA−AG−A036−01A, spectrum: 10536
MVAVGLCR, H8R
MVH=34.3603
p−value=0.0006
Intensity(%)
0
20
40
60
80
100
120
m/z
200
400
600
800
y6
y4
y5
y7
b4
b2
b3
b6
b7
y2
y1−NH3
y1
b5−NH3

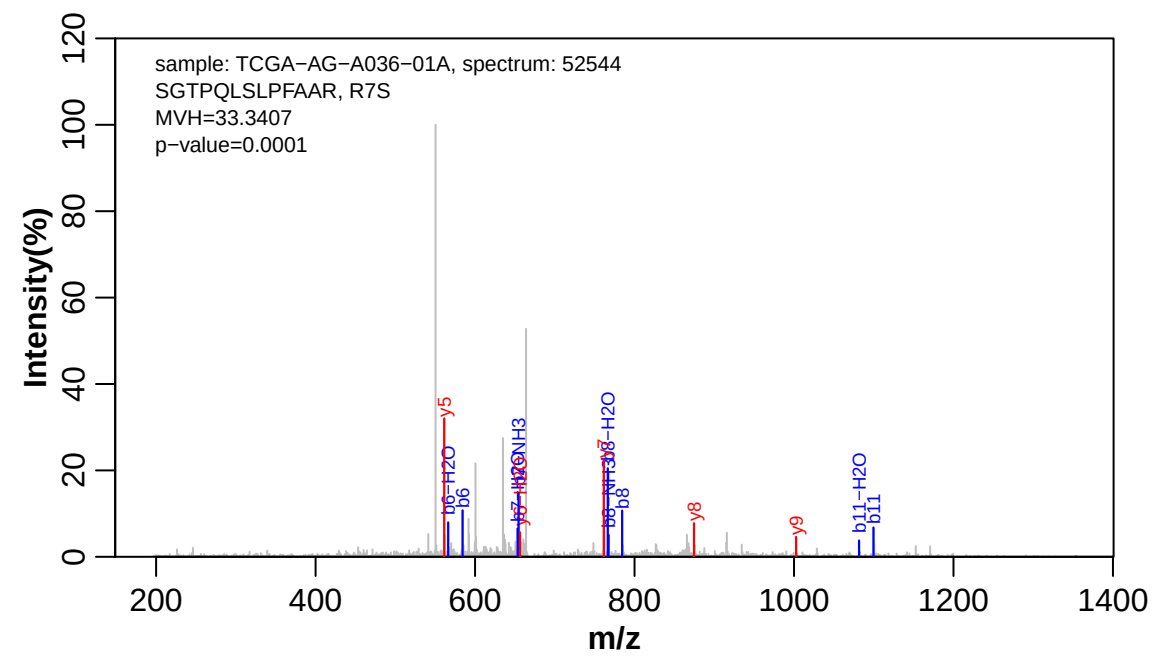

sample: TCGA−AG−A036−01A, spectrum: 45205
NLSLSGHVGFDSLPDKLVNK, Q16K
MVH=35.5044
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
y7
y7++
y16++
y17++
y18++
y18++−H2O
y19++
y9
b12++−H2O
b12++
b13++−H2O
b13++
b13

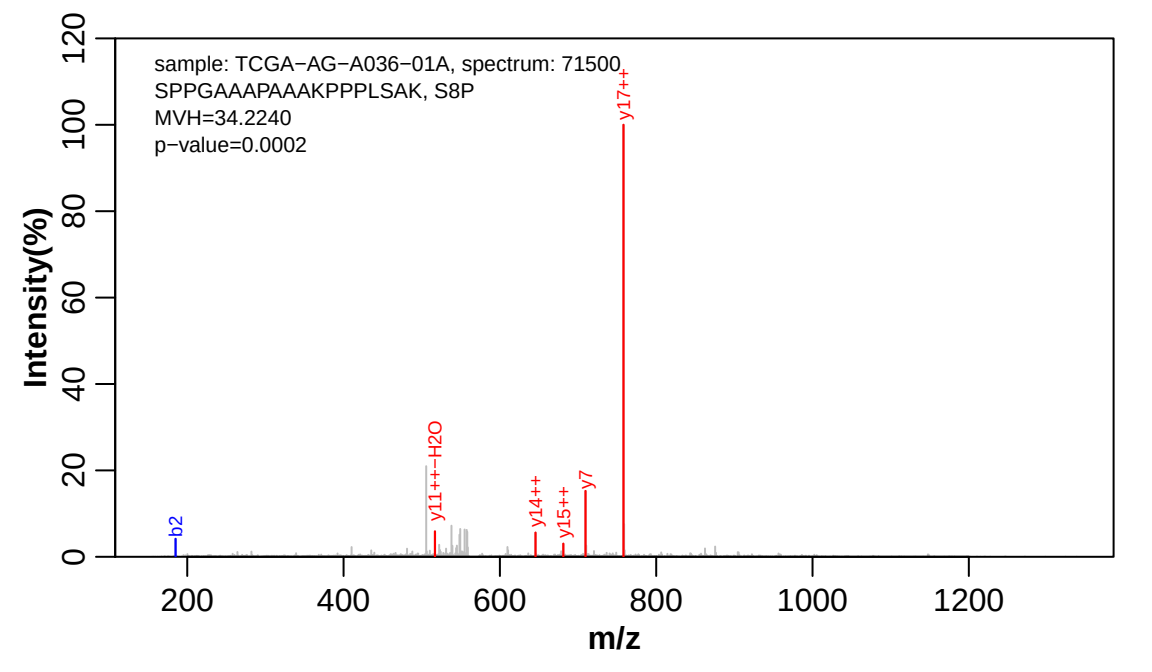

sample: TCGA−AG−A036−01A, spectrum: 21572
NPLLDLAAYDQEGR, R3L
MVH=61.0914
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y7
y6
y8
y10
y5
y11
b7
b8
b9
b12
y12
y9
b10
b11
b6
b7−NH3
b4−NH3
y4
b5−NH3
b5
y5−NH3
b6−H2O−NH3
b7−H2O
y7−H2O
b9−NH3
y3
b3
b4

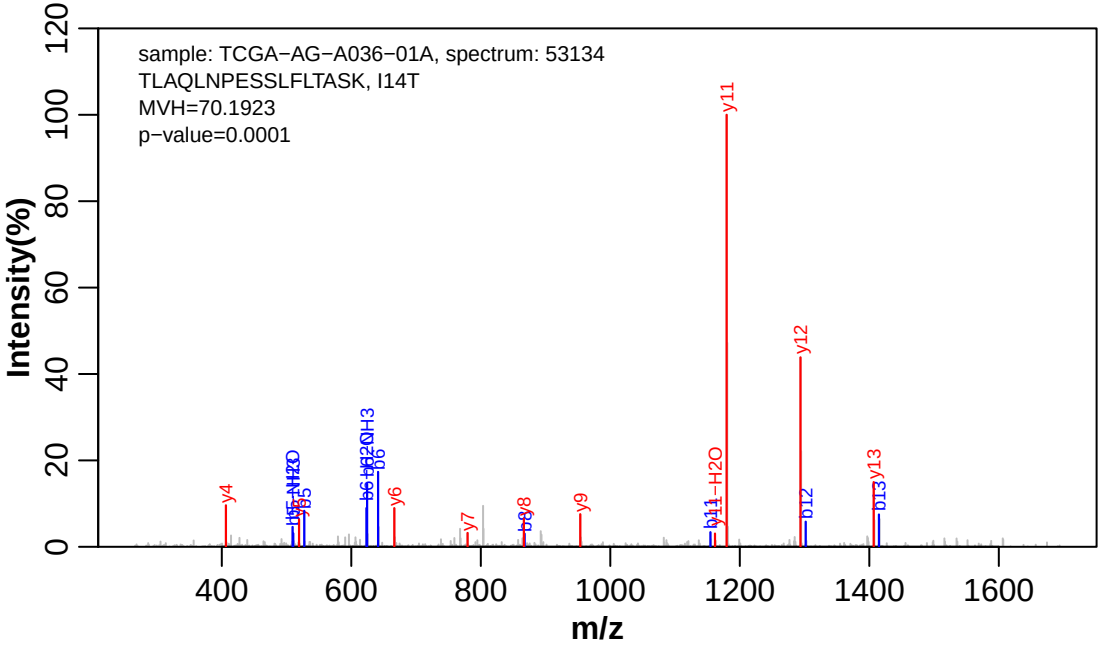

sample: TCGA−AG−A036−01A, spectrum: 49796
NTNSVPETAPAALPETR, K17R
MVH=52.5853
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z
y12
y4
y8
y5
b12
b13

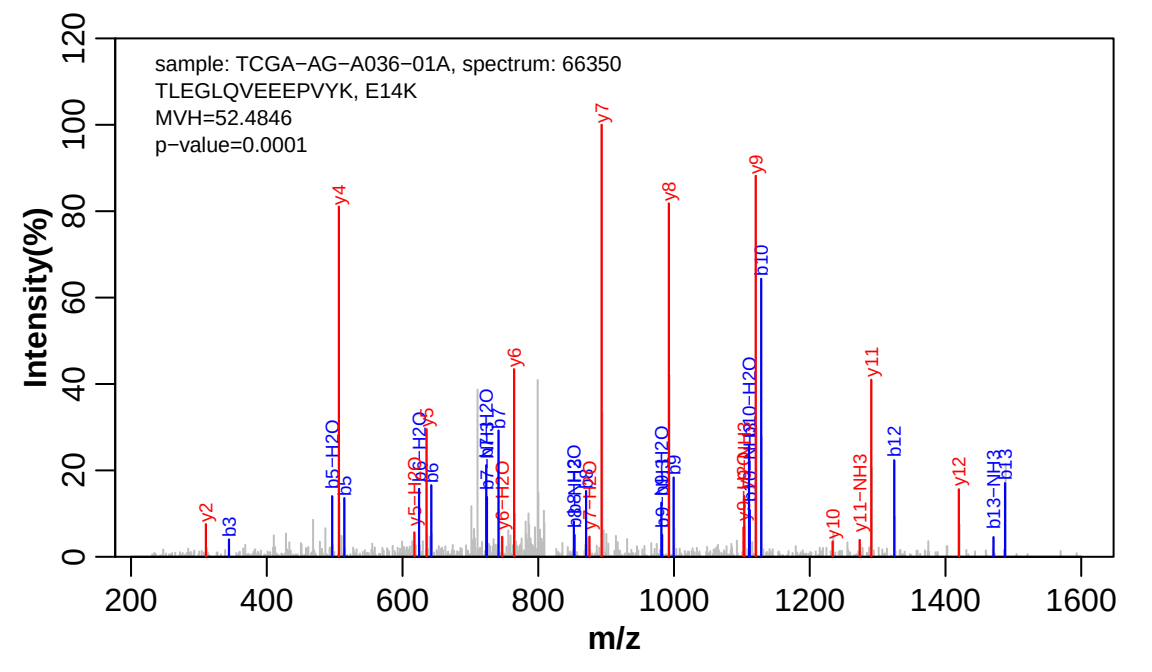

sample: TCGA−AG−A036−01A, spectrum: 104112
SAVGELSEDSSNVVHLLK, Q15H
MVH=35.3531
p−value=0.0001
y15++
y16++
b5++−H2O
b3
y12++
y13++
y14++
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600

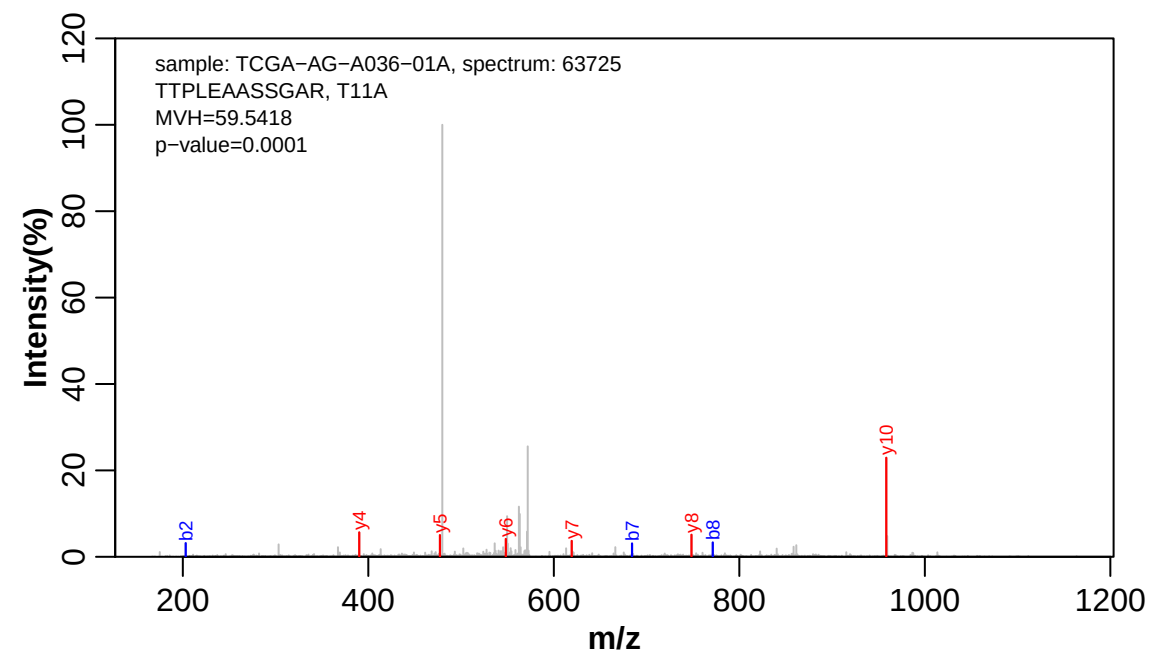

sample: TCGA−AG−A036−01A, spectrum: 95954
SEALPTDLPTPSAPDLTEPK, A10T
MVH=43.9231
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
500
1000
1500
b4
y5
y7−H2O
y8
b10
y10
y11
y12
y12−H2O
b13−NH3
y13
b15
y16
b18−NH3
b18

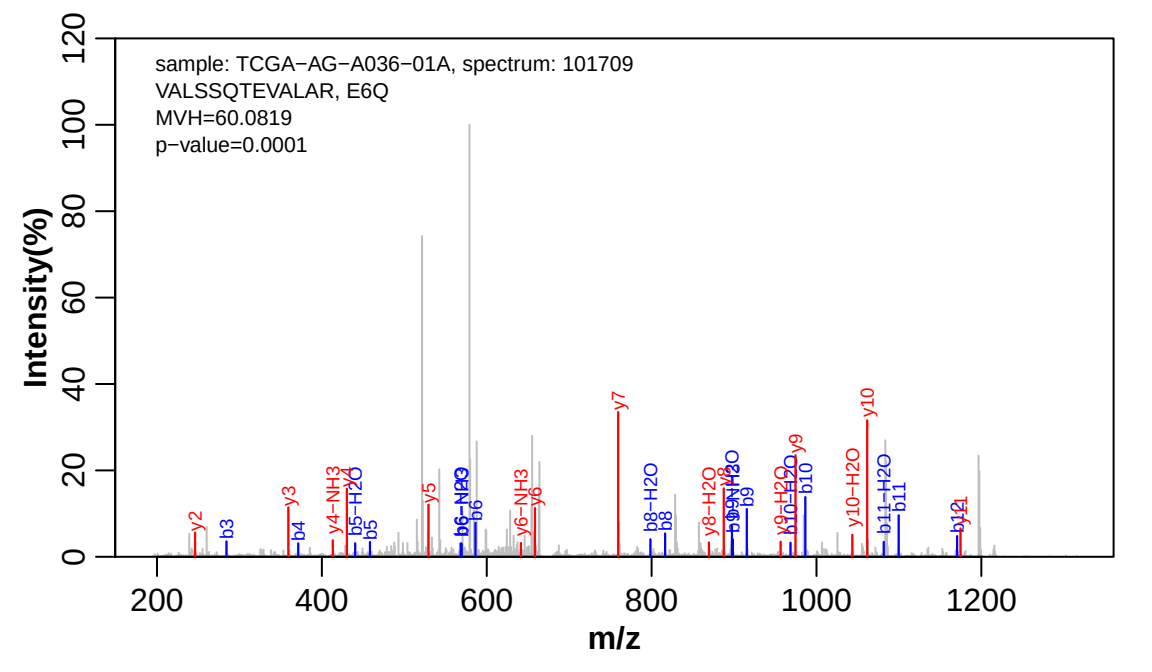

sample: TCGA−AG−A036−01A, spectrum: 52544
SGTPQLSLPFAAR, R7S
MVH=33.3407
p−value=0.0001
Intensity(%)
m/z
y5
b6−H2O
b6
y7−H2O
y7−NH3
y7
b8−NH3
b8−H2O
b8
y8
y9
b11−H2O
b11

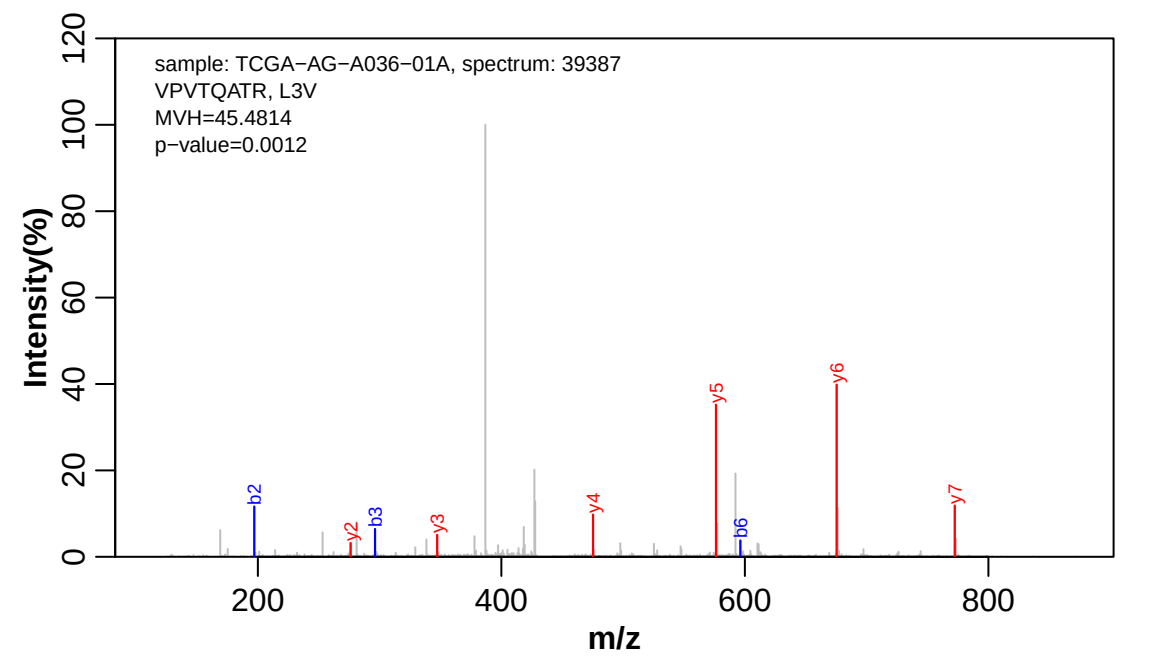

sample: TCGA−AG−A036−01A, spectrum: 71500
SPPGAAAPAAAKPPPLSAK, S8P
MVH=34.2240
p−value=0.0002
Intensity(%)
m/z
b2
y11++−H2O
y14++
y15++
y7
y17++
0
20
40
60
80
100
120
200
400
600
800
1000
1200

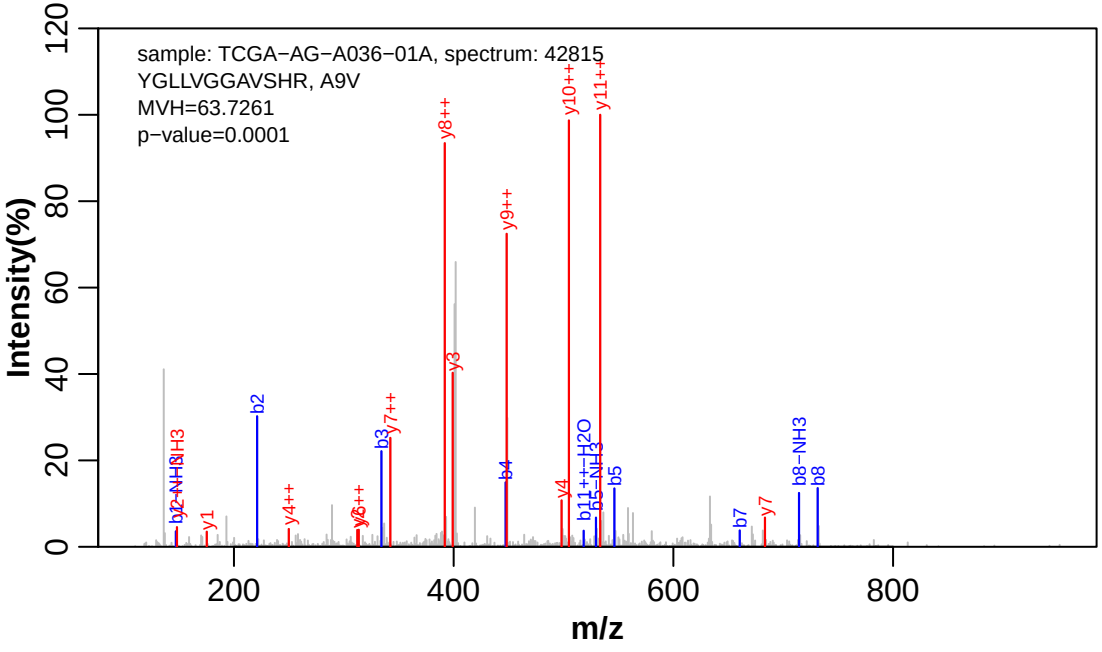

sample: TCGA−AG−A036−01A, spectrum: 53134
TLAQLNPESSLFLTASK, I14T
MVH=70.1923
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
400
600
800
1000
1200
1400
1600
m/z
y4
y5
y6
y7
y9
y11
y12
y13
b6
b8
b11−H2O
b12
b13

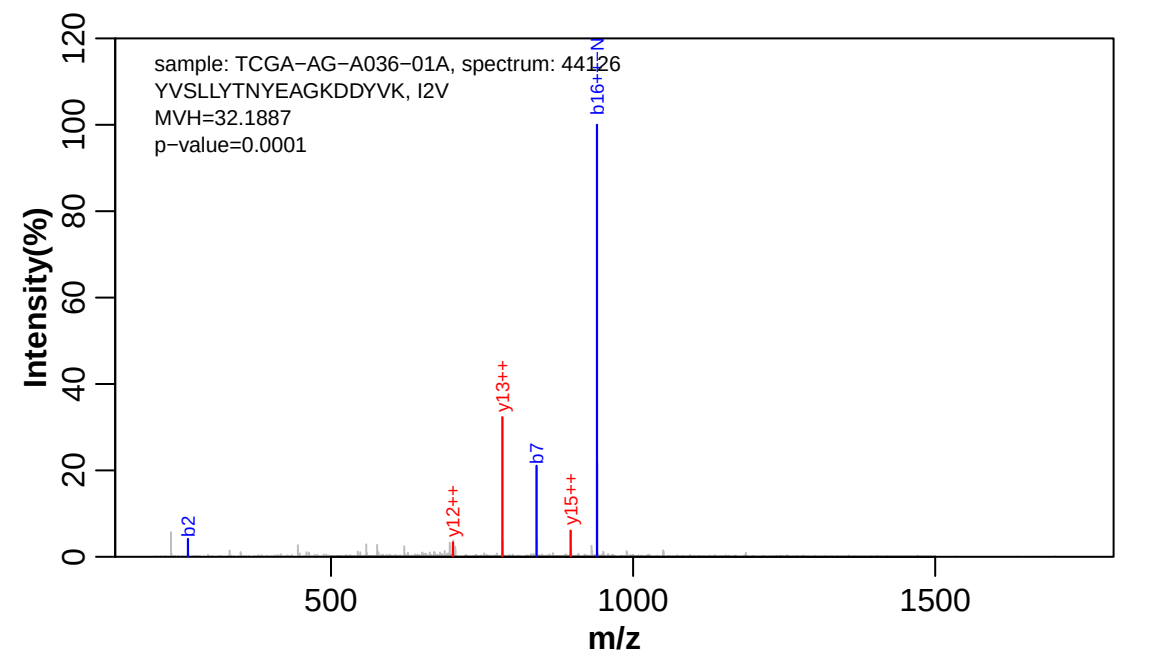

sample: TCGA−AG−A036−01A, spectrum: 66350
TLEGLQVEEEPVYK, E14K
MVH=52.4846
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
1400
1600
y2
b3
y4
b5−H2O
b5
y5−H2O
y5
b6
b7−NH3
b7−H2O
b7
y6
y6−H2O
b8−NH3
b8−H2O
b8
y7−H2O
y7
y8
b9−NH3
b9−H2O
b9
y9−NH3
y9−H2O
y9
b10−NH3
b10−H2O
b10
y10
y11−NH3
y11
b12
y12
b13−NH3
b13


sample: TCGA−AG−A036−01A, spectrum: 63725
TTPLEAASSGAR, T11A
MVH=59.5418
p−value=0.0001
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
1000
1200
m/z
b2
y4
y5
y6
y7
b7
y8
b8
y10


sample: TCGA−AG−A036−01A, spectrum: 101709
VALSSQTEVALAR, E6Q
MVH=60.0819
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
1000
1200
y2
b3
y3
b4
y4−NH3
y4
b5−H2O
b5
y5
b6−NH3
b6
y6−NH3
y6
y7
b8−H2O
b8
y8−H2O
y8
b9
y9−H2O
y9
b10
y10−H2O
y10
b11−H2O
b11
b12
y12


sample: TCGA−AG−A036−01A, spectrum: 39387
VPVTQATR, L3V
MVH=45.4814
p−value=0.0012
Intensity(%)
0
20
40
60
80
100
120
200
400
600
800
m/z
b2
y2
b3
y3
y4
y5
b6
y6
y7


sample: TCGA−AG−A036−01A, spectrum: 42815
YGLLVGGAVSHR, A9V
MVH=63.7261
p−value=0.0001
Intensity(%)
m/z
0
20
40
60
80
100
120
200
400
600
800
y8++
y10++
y11++
y9++
y3
b2
b3
y7++
b4
y4++
y5++
y6++
y1
b2−NH3
b2−NH3
b11++−H2O
b5−NH3
b5
b7
y7
b8−NH3
b8


sample: TCGA−AG−A036−01A, spectrum: 44126
YVSLLYTNYEAGKDDYVK, I2V
MVH=32.1887
p−value=0.0001
b16+-N
y13++
b7
y15++
y12++
b2
Intensity(%)
0
20
40
60
80
100
120
500
1000
1500
m/z