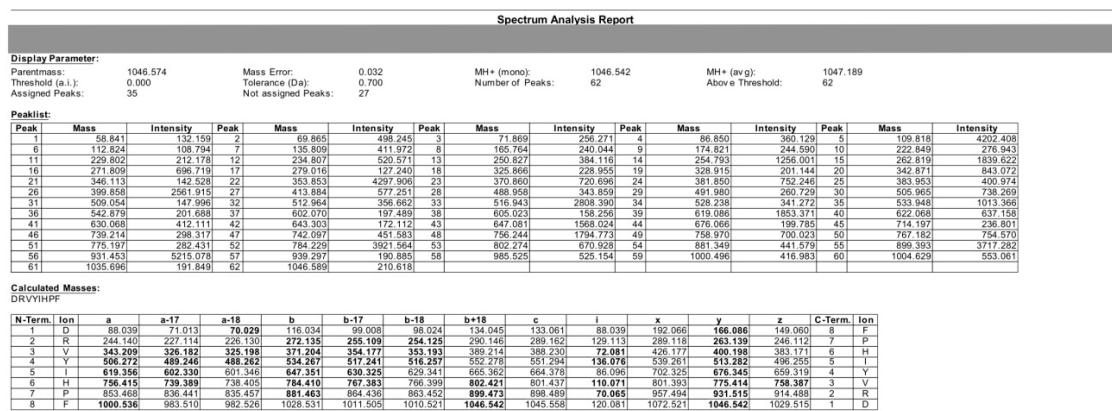
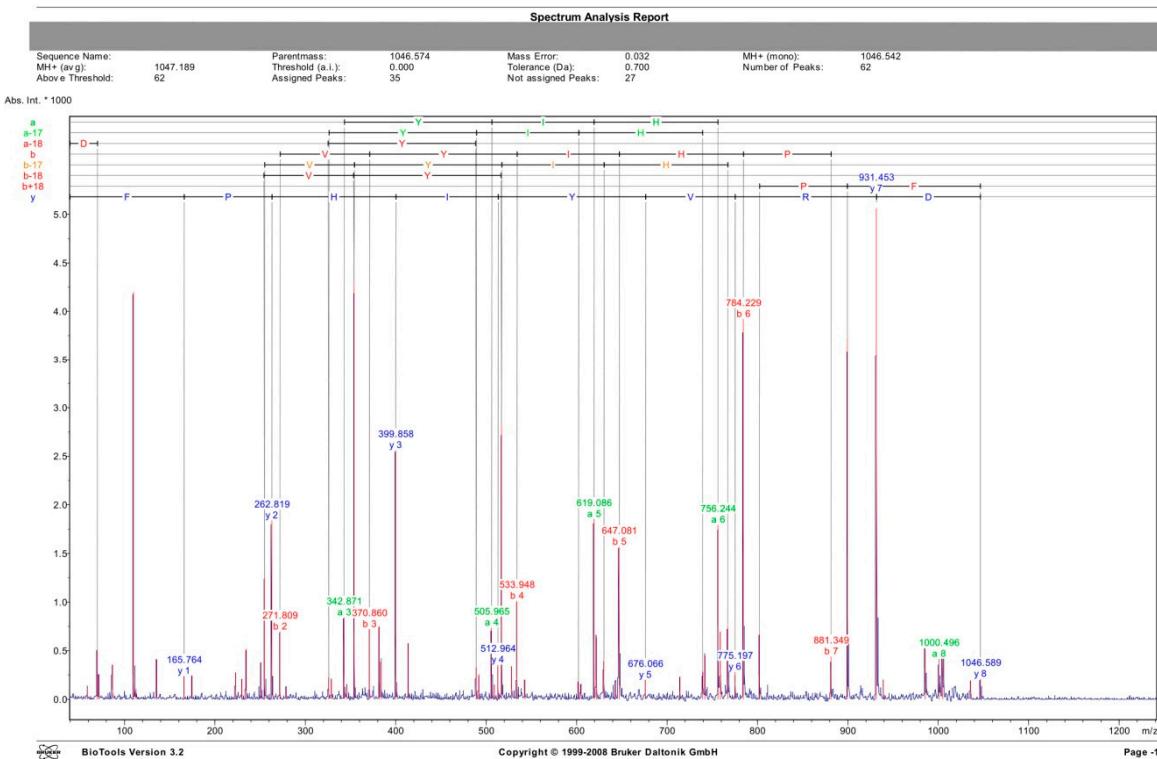


Supplementary Materials: Proteome and Peptidome of *Vipera berus berus* Venom

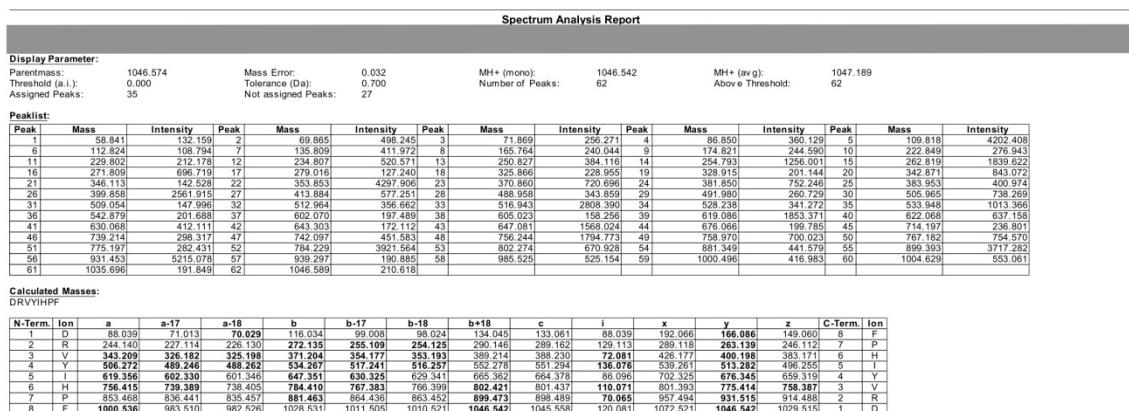
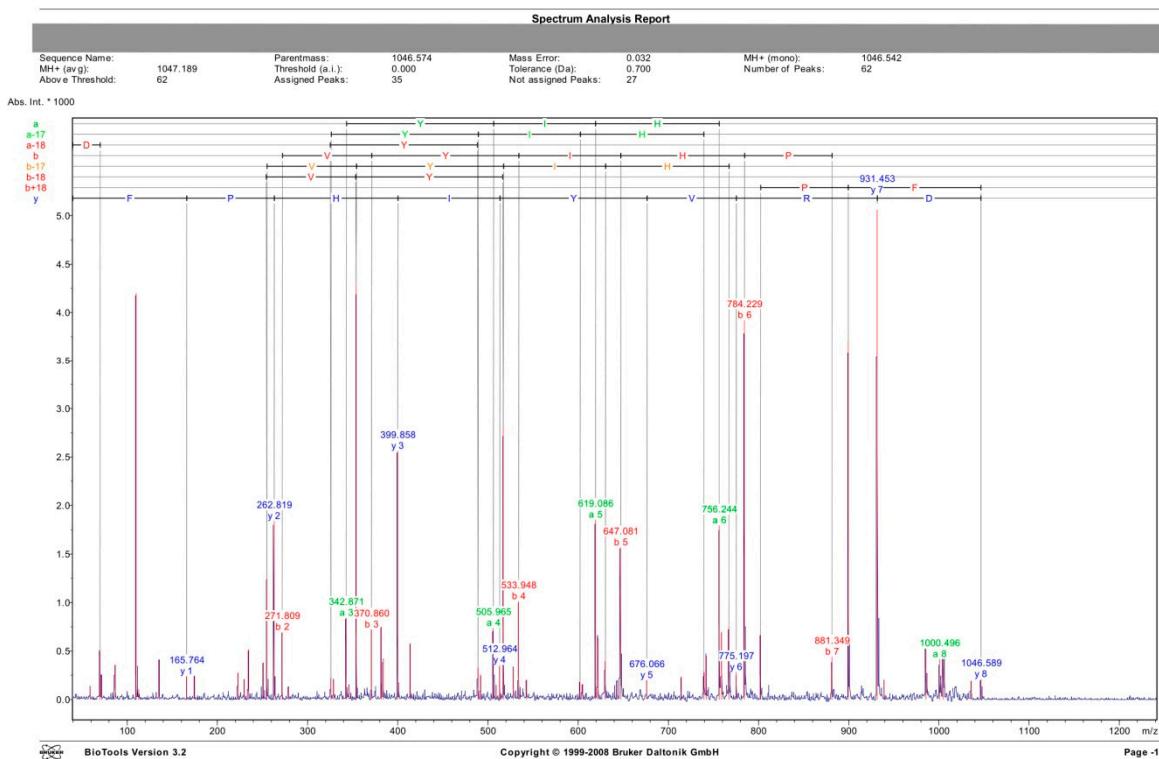
Aleksandra Bocian, Małgorzata Urbanik, Konrad Hus, Andrzej Łyskowski,
Vladimír Petrilla, Zuzana Andrejčáková, Monika Petrillová and Jaroslav Legath

Selected MS and MS/MS Annotated Spectra used for Protein and Peptide Identification

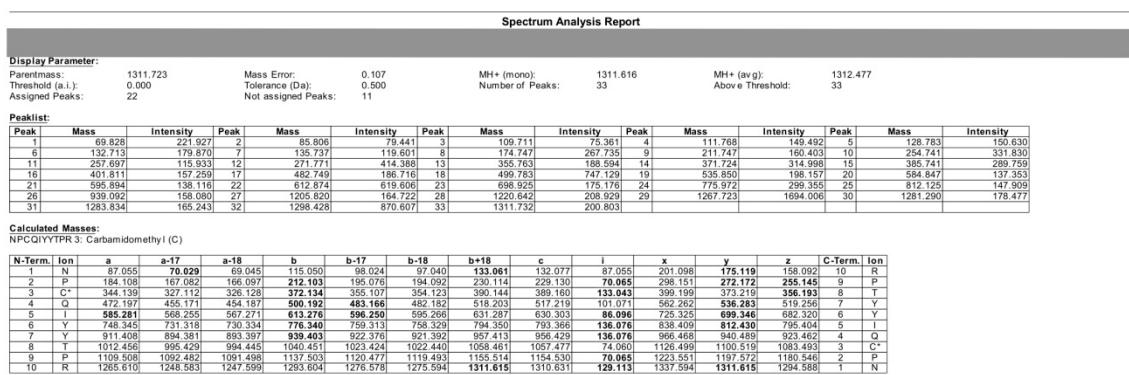
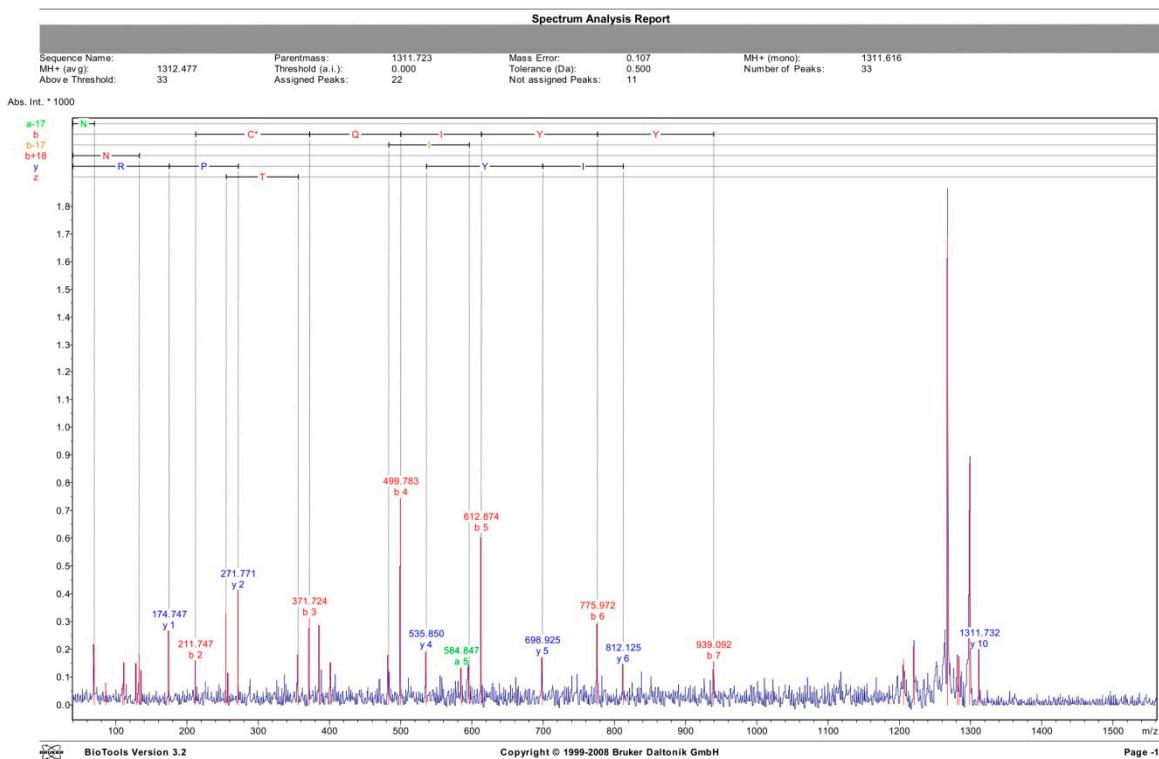
Area 1. Annotated MS/MS spectrum of ion 1046.574 m/z .



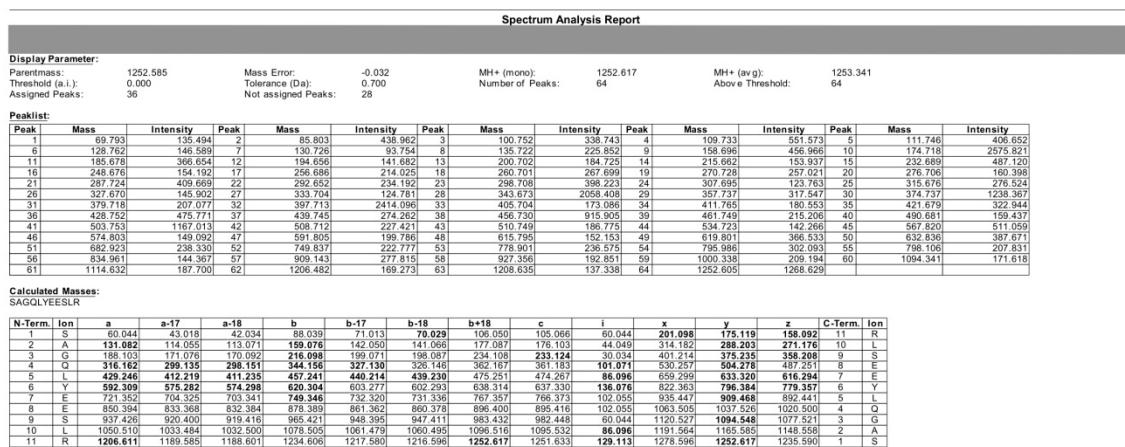
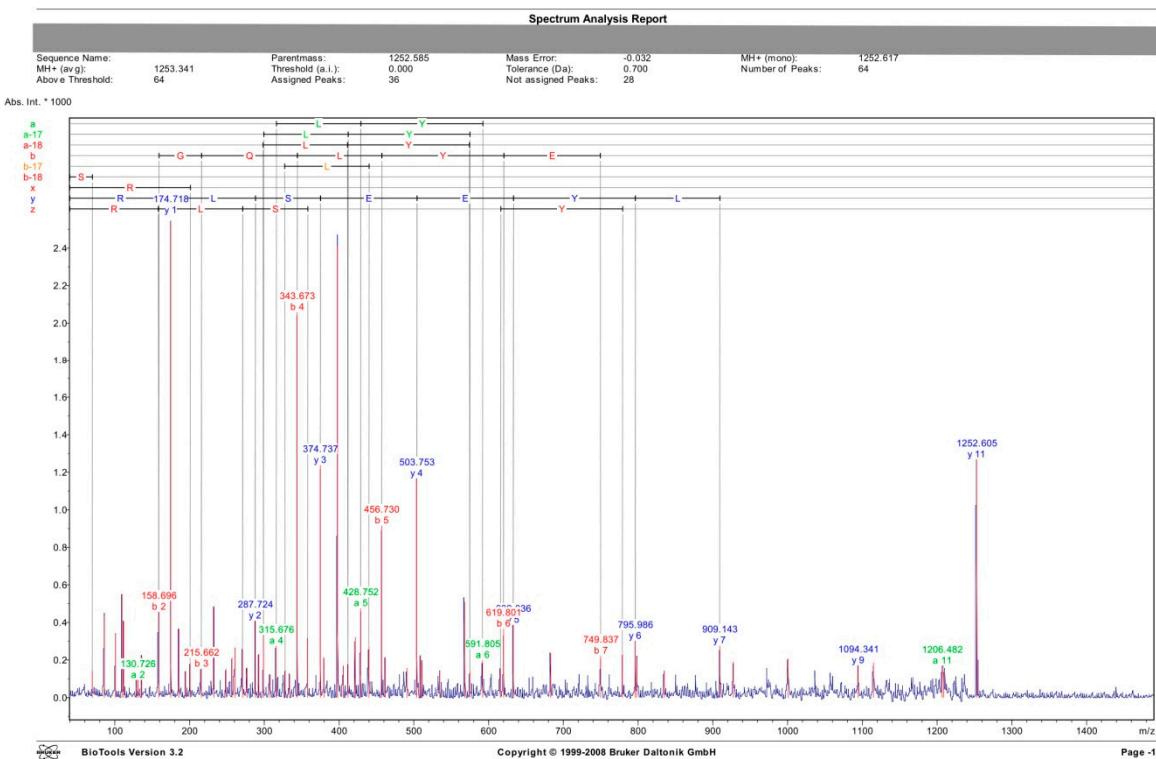
Area 1. Annotated MS/MS spectrum of ion 1046.574 m/z.



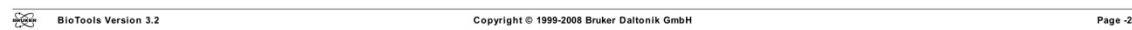
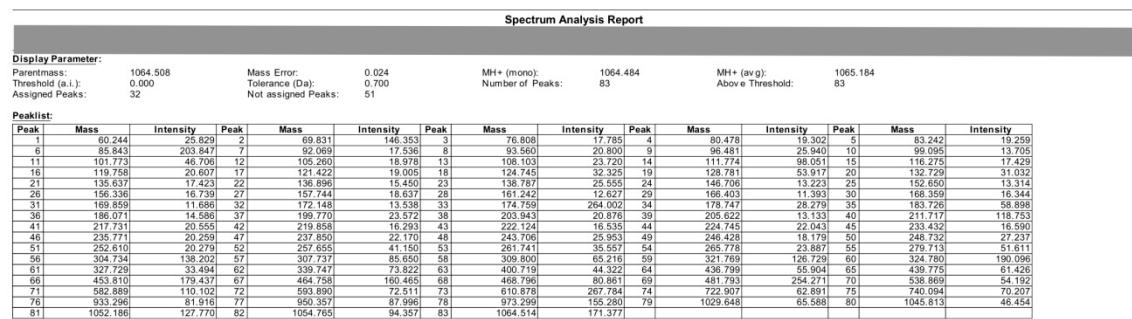
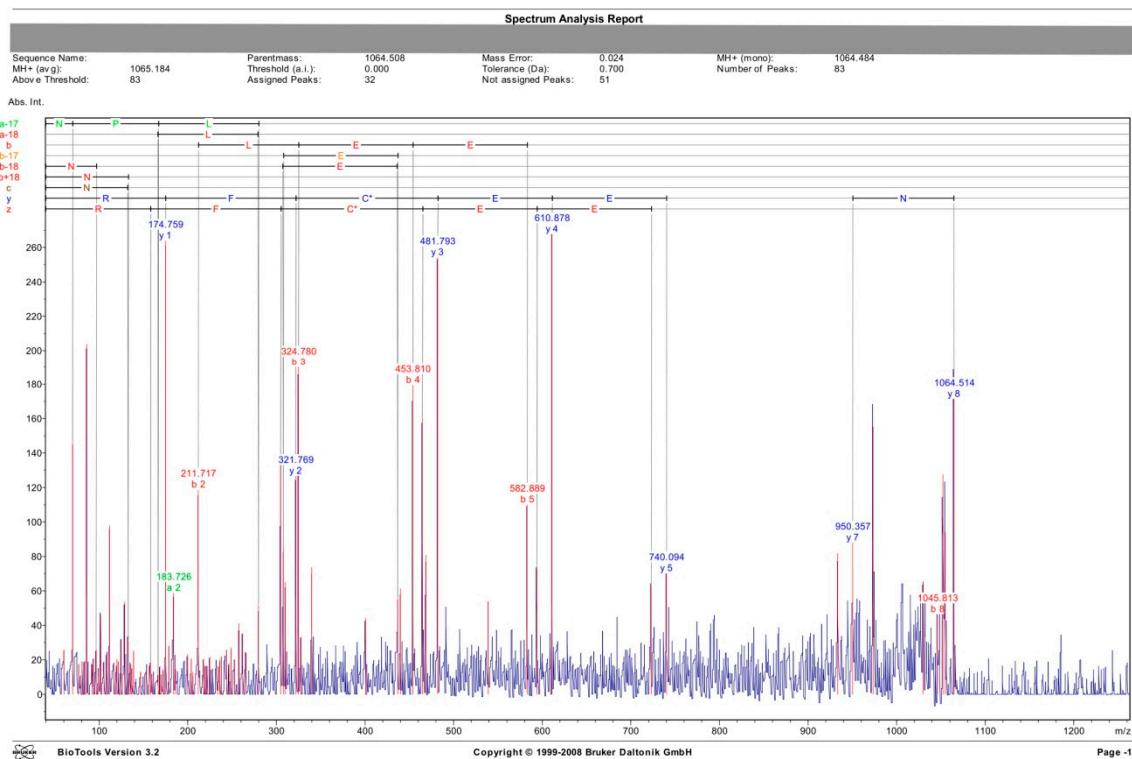
Area 2. Annotated MS/MS spectrum of ion 1311.723 m/z.



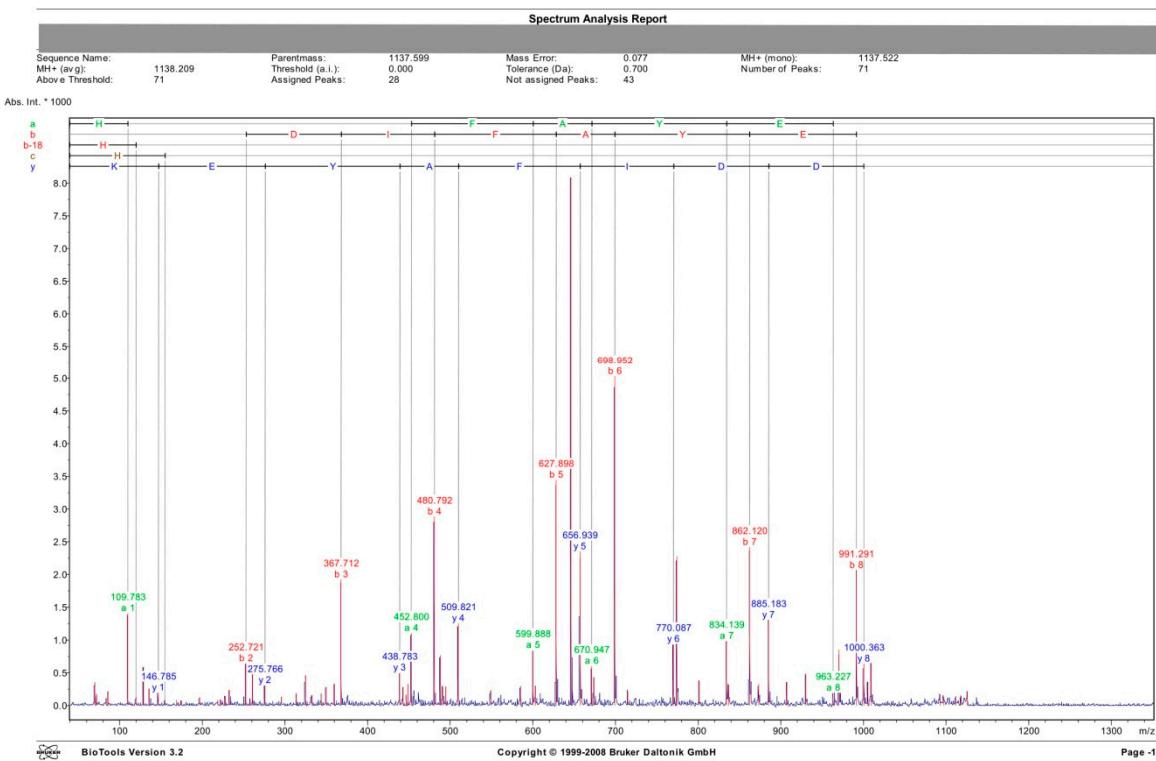
Area 3. Annotated MS/MS spectrum of ion 1252.585 m/z.



Area 3. Annotated MS/MS spectrum of ion 1064.508 m/z .



Area 3. Annotated MS/MS spectrum of ion 1137.599 m/z.



Spectrum Analysis Report

Display Parameter:	1137.599	Mass Error:	0.077	MH+ (mono):	1137.522	MH+ (avg g):	1138.209
Threshold (a.i.):	0.000	Tolerance (Da):	0.700	Number of Peaks:	71	Above Threshold:	71
Assigned Peaks:	28	Not assigned Peaks:	43				

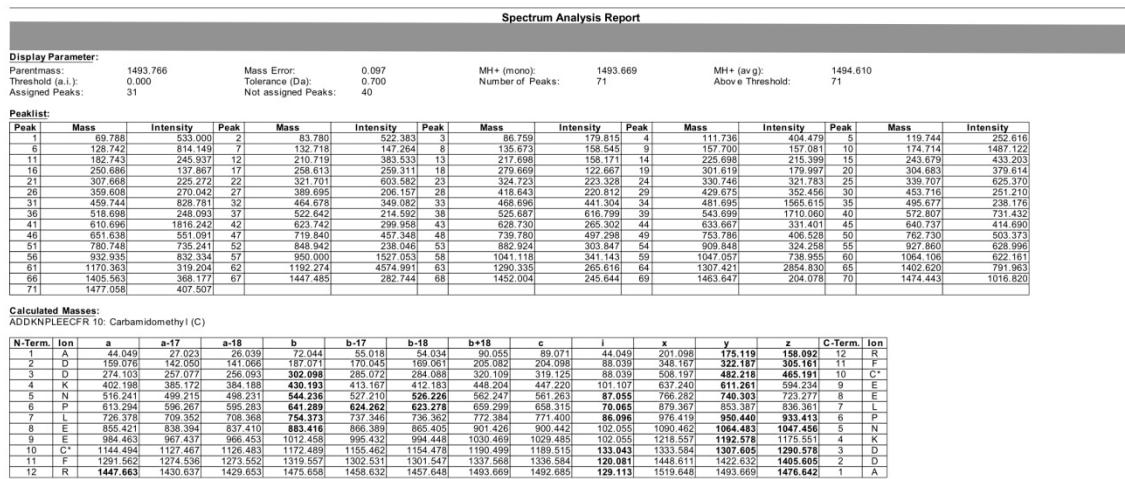
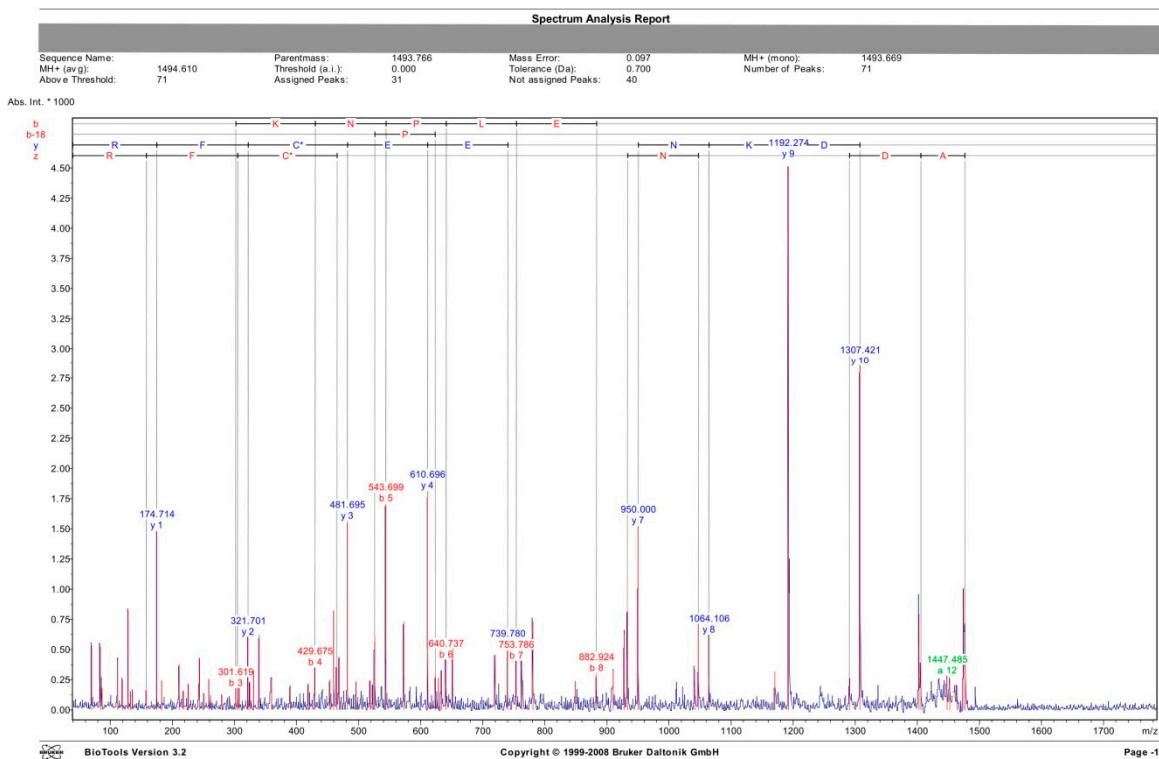
Peaklist:

Peak	Mass	Intensity												
1	69.816	343.836	2	71.826	189.351	3	83.828	113.505	4	85.829	216.619	5	109.783	1410.460
6	119.786	127.164	7	128.795	588.410	8	135.764	256.266	9	146.785	196.634	10	154.743	80.691
11	146.785	100.000	12	171.754	77.173	13	196.760	131.411	14	216.746	83.354	15	226.754	83.353
16	227.822	147.781	17	232.785	238.395	18	252.781	645.376	19	257.741	107.832	20	260.760	645.611
21	275.766	311.945	22	295.766	137.382	23	313.777	193.026	24	324.846	485.919	25	332.819	161.661
26	343.741	187.793	27	349.788	284.947	28	359.808	334.088	29	367.712	1927.375	30	436.783	501.639
31	442.826	285.223	32	446.796	167.186	33	448.823	316.046	34	452.800	196.634	35	486.827	2886.692
39	490.839	769.377	40	493.844	299.322	41	494.836	297.379	42	509.821	1256.117	43	546.937	207.978
41	584.968	301.358	42	599.888	846.409	43	602.952	307.497	44	627.898	3449.228	45	646.015	8251.069
46	656.939	234.501	47	670.947	604.765	48	673.901	426.309	49	698.952	5032.405	50	714.705	219.482
51	770.087	938.651	52	774.153	2281.561	53	801.163	384.730	54	834.139	986.599	55	836.802	323.125
59	880.240	240.730	60	871.230	352.730	61	886.250	340.000	62	897.251	463.650	63	939.13	100.115
61	963.227	193.910	62	970.304	857.672	63	991.291	2069.049	64	1000.363	639.914	65	1005.259	363.334
66	1009.321	659.582	67	1092.536	172.839	68	1097.097	136.056	69	1111.640	131.236	70	1117.472	157.670
71	1125.611	210.636												

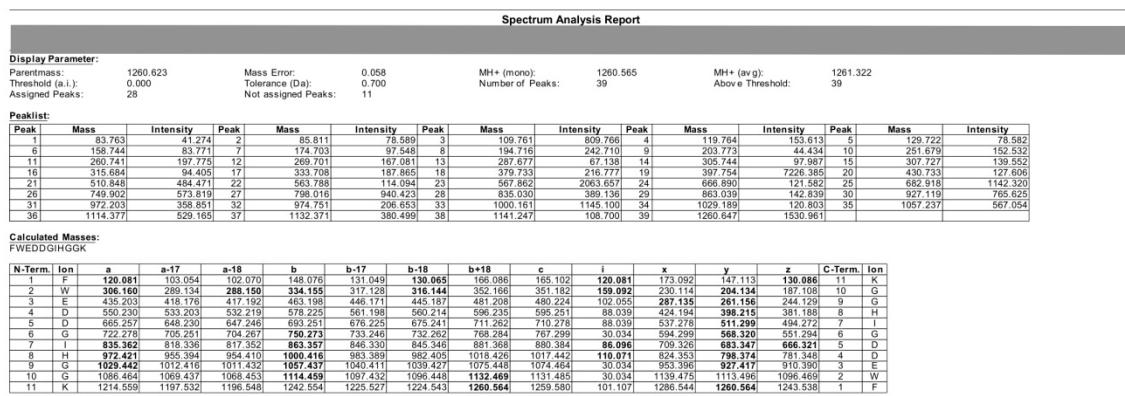
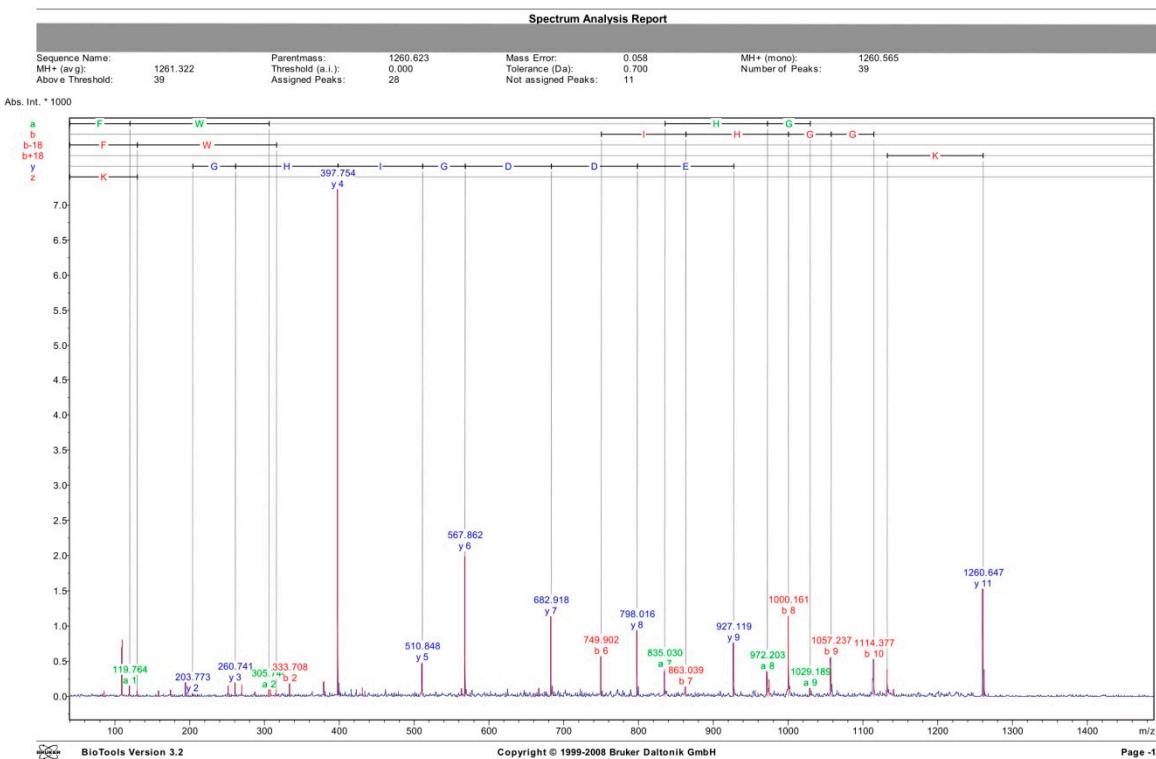
Calculated Masses:
HDDIFAYEK

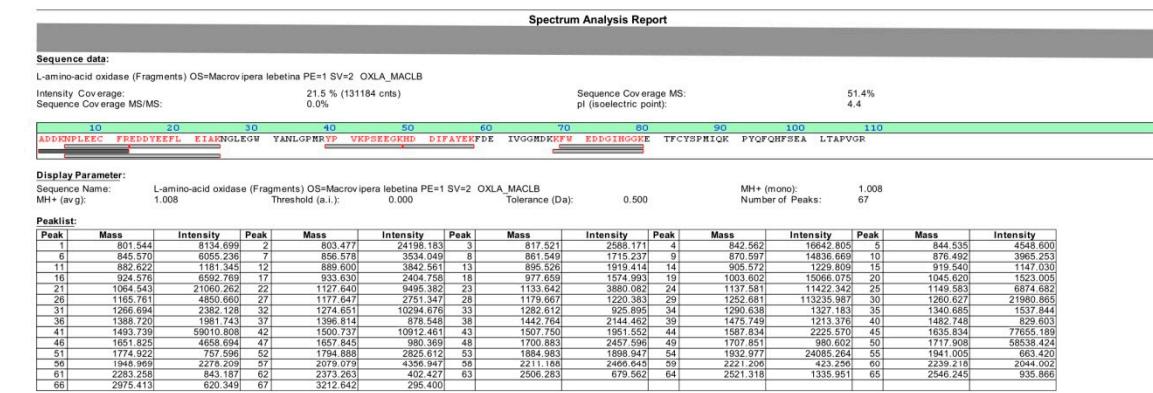
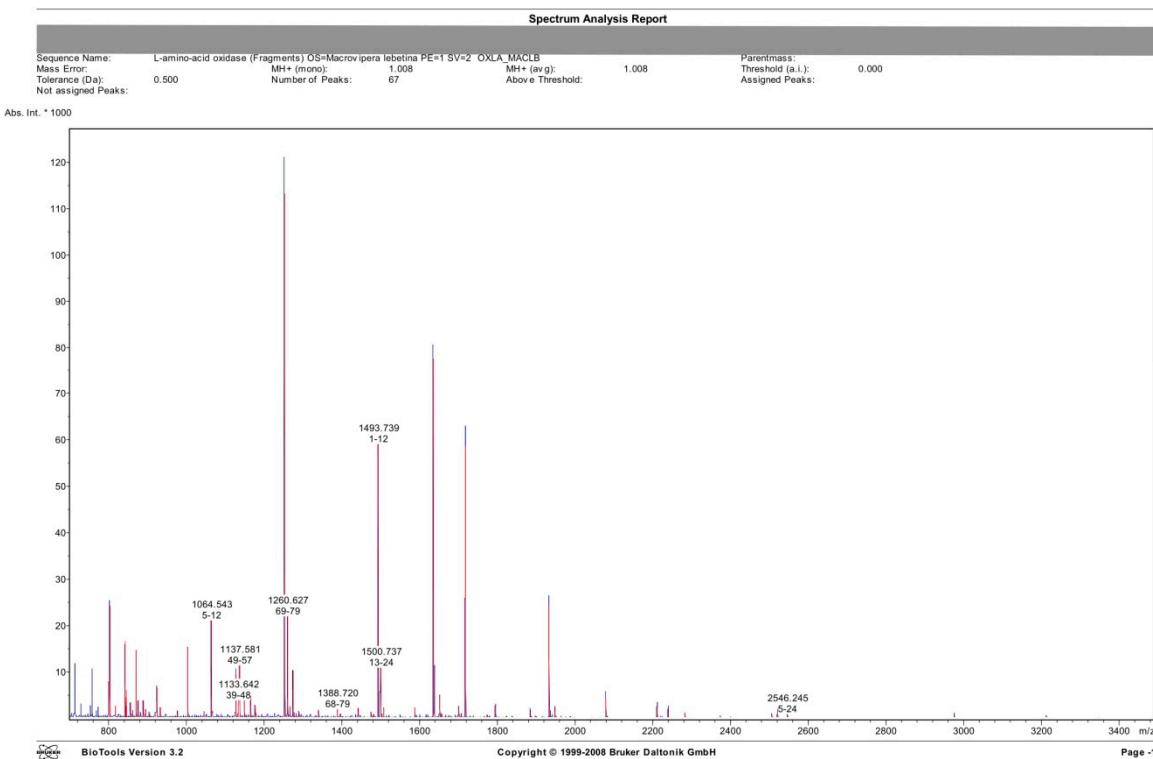
N-Term.	Ion	a	a-17	a-18	b	b-17	b-18	b+a	c	i	x	y	z	C-Term.	Ion
1	I	110.071	93.045	92.061	138.066	121.040	120.056	159.077	155.093	110.071	173.092	147.113	130.086	9	E
2	D	225.098	208.072	207.088	235.093	236.067	235.083	271.104	270.120	88.039	302.135	276.155	259.129	8	E
3	D	340.125	323.099	322.115	368.120	351.094	350.110	386.131	385.147	88.039	465.198	439.219	422.192	7	Y
4	D	453.209	436.183	435.199	481.204	464.178	464.194	499.215	498.231	86.046	536.235	510.250	493.229	6	A
5	F	652.272	632.272	631.272	667.272	611.272	646.272	646.272	639.272	120.061	646.272	646.272	645.272	5	F
6	A	671.315	654.288	653.304	699.310	682.283	681.299	717.320	716.336	44.049	796.388	770.408	753.382	4	I
7	Y	834.378	817.352	816.368	862.373	845.346	844.362	880.384	879.400	136.076	911.415	885.435	868.409	3	D
8	E	963.421	946.394	945.410	991.416	974.389	973.405	1009.426	1008.442	102.055	1026.441	1000.462	983.436	2	D
9	K	1091.516	1074.489	1073.505	1119.511	1102.484	1101.500	1137.521	1136.537	101.107	1163.500	1137.521	1120.495	1	H

Area 3. Annotated MS/MS spectrum of ion 1493.766 m/z.

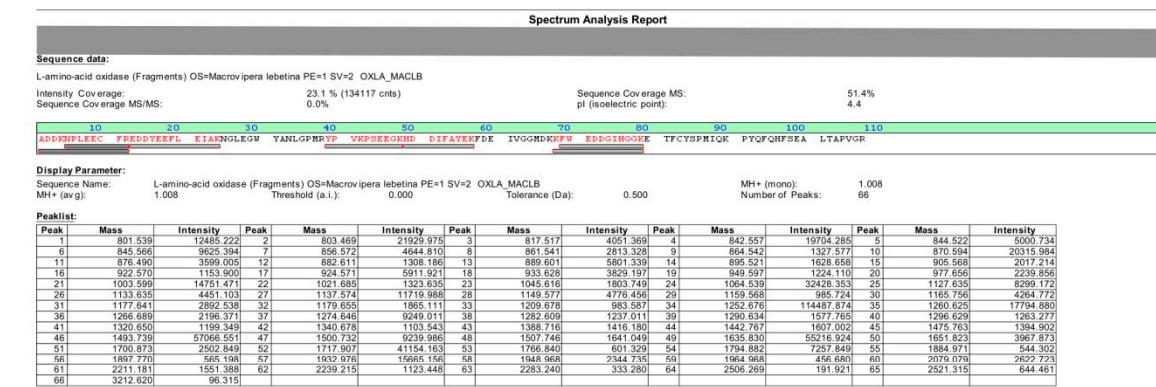
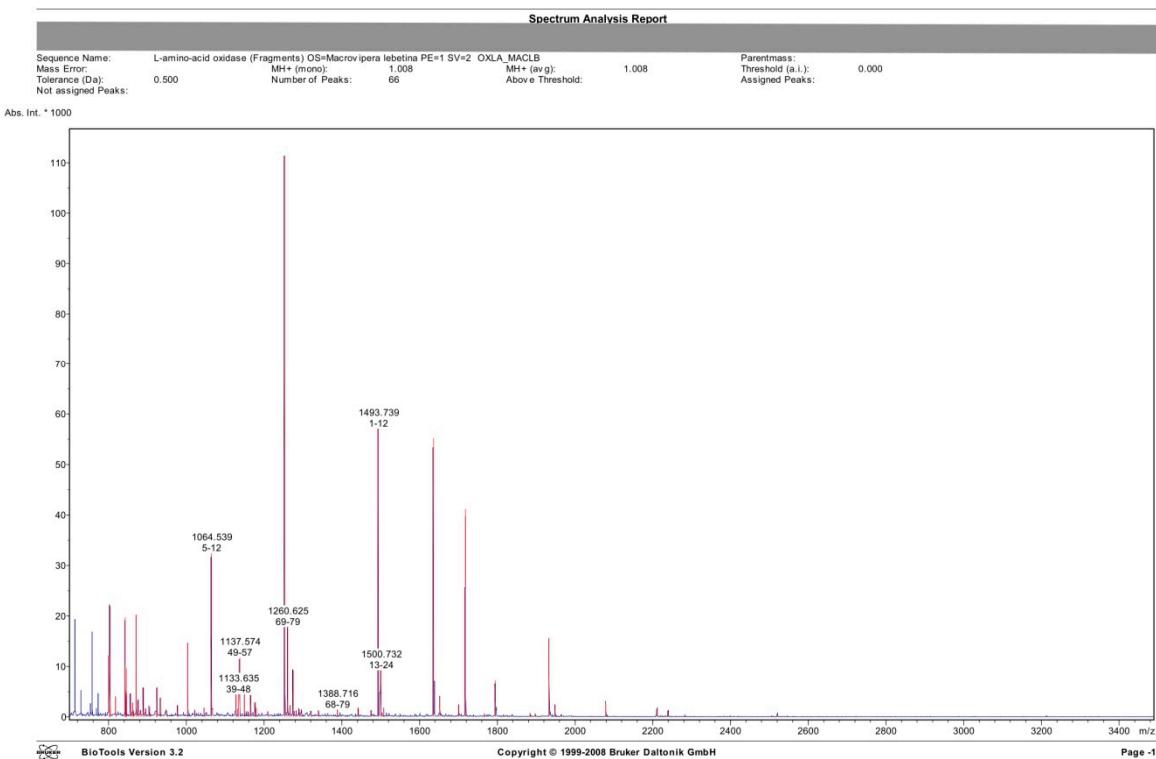


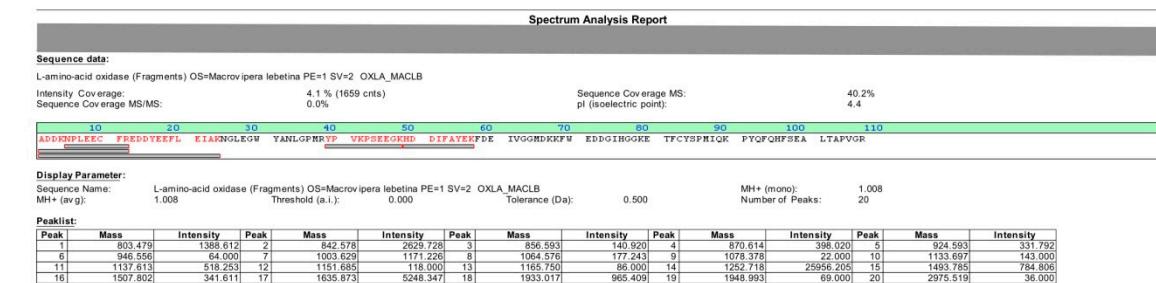
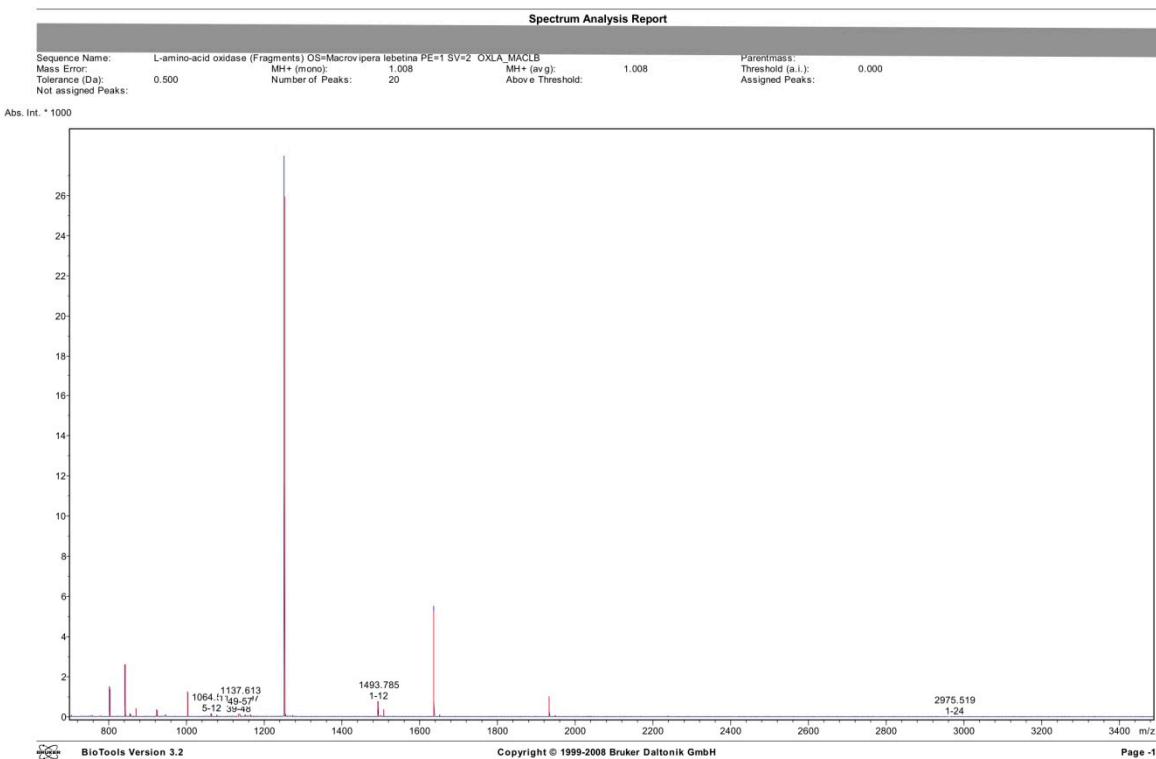
Area 3. Annotated MS/MS spectrum of ion 1260.623 m/z .



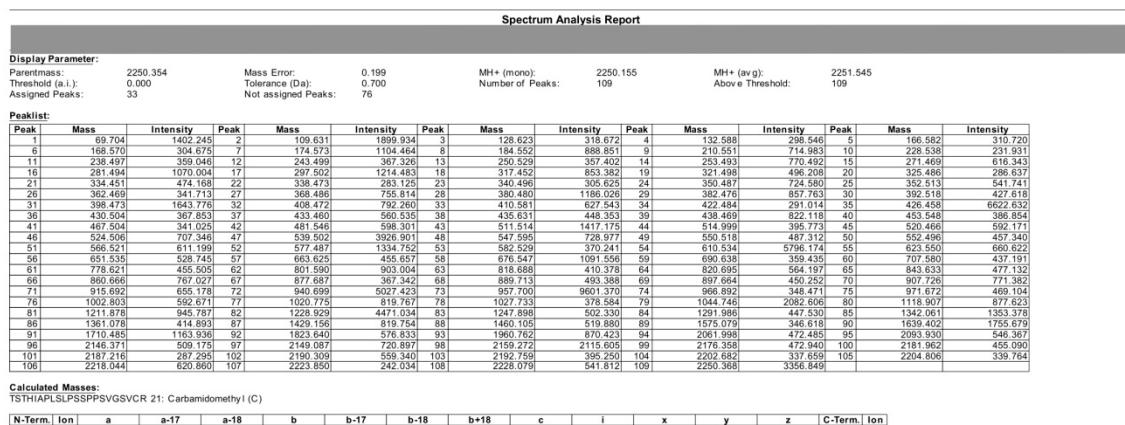
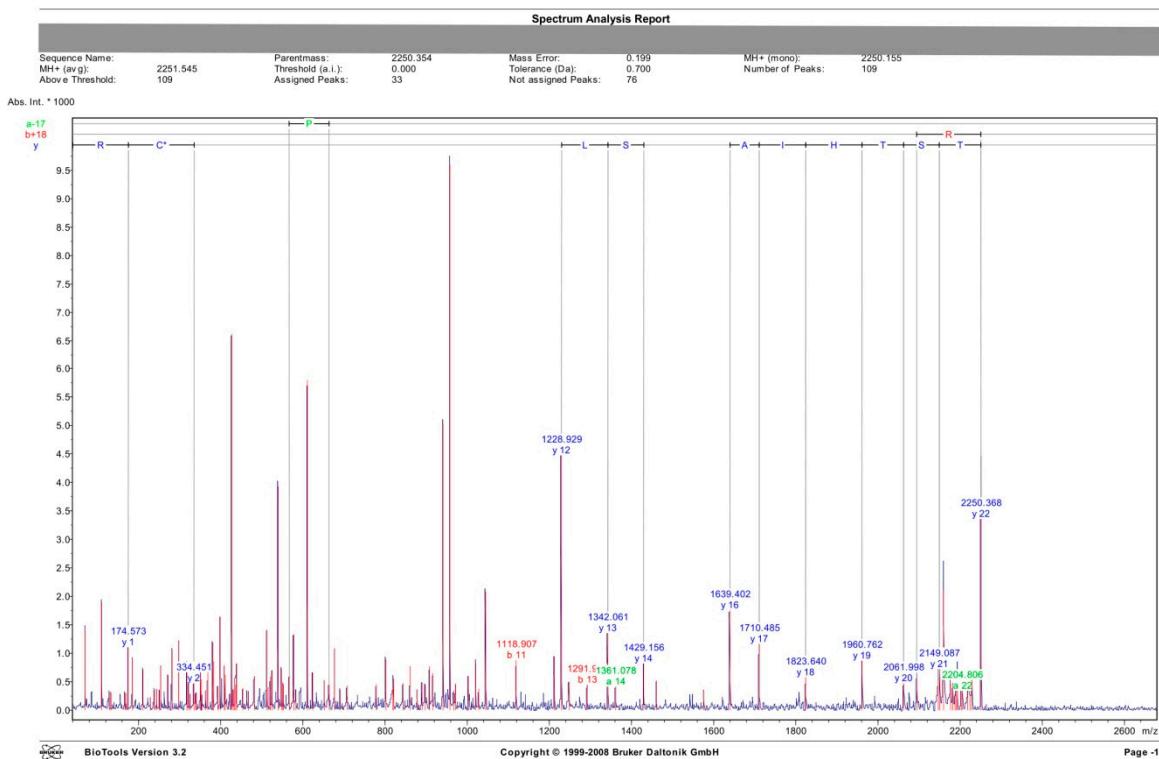
Area 3. Annotated MS spectrum 1.

Area 3. Annotated MS spectrum 2.

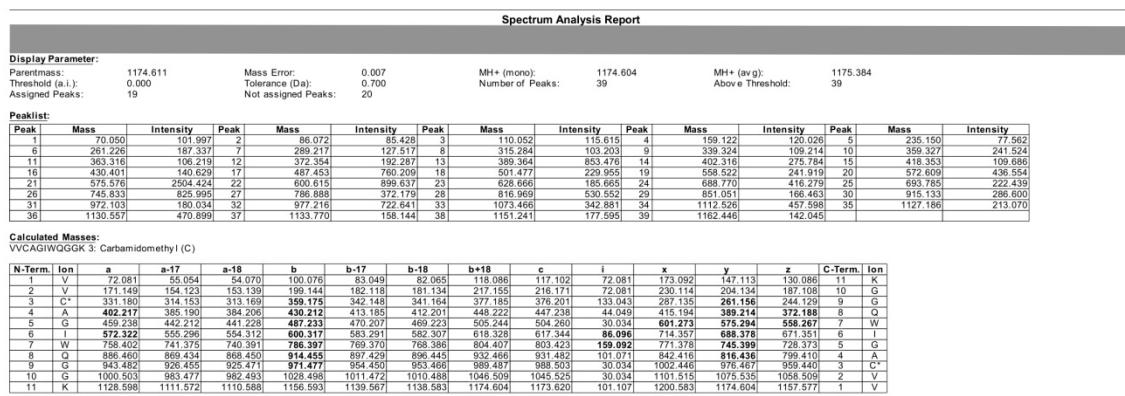
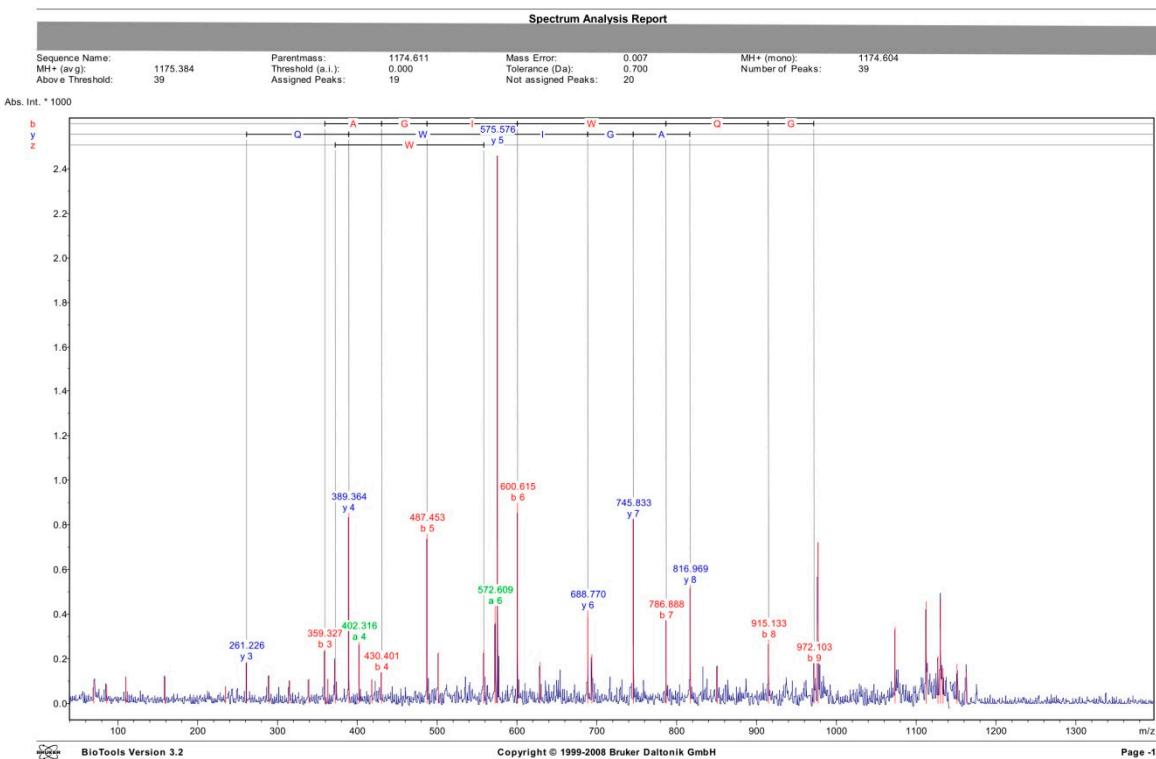


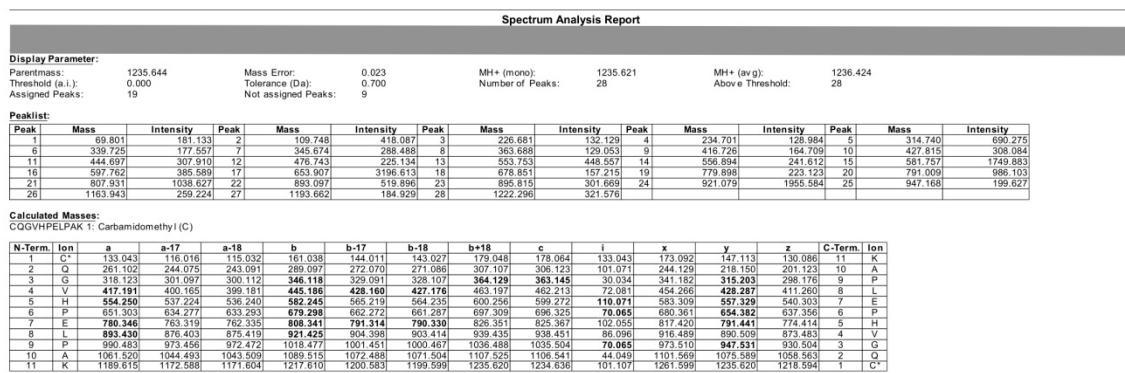
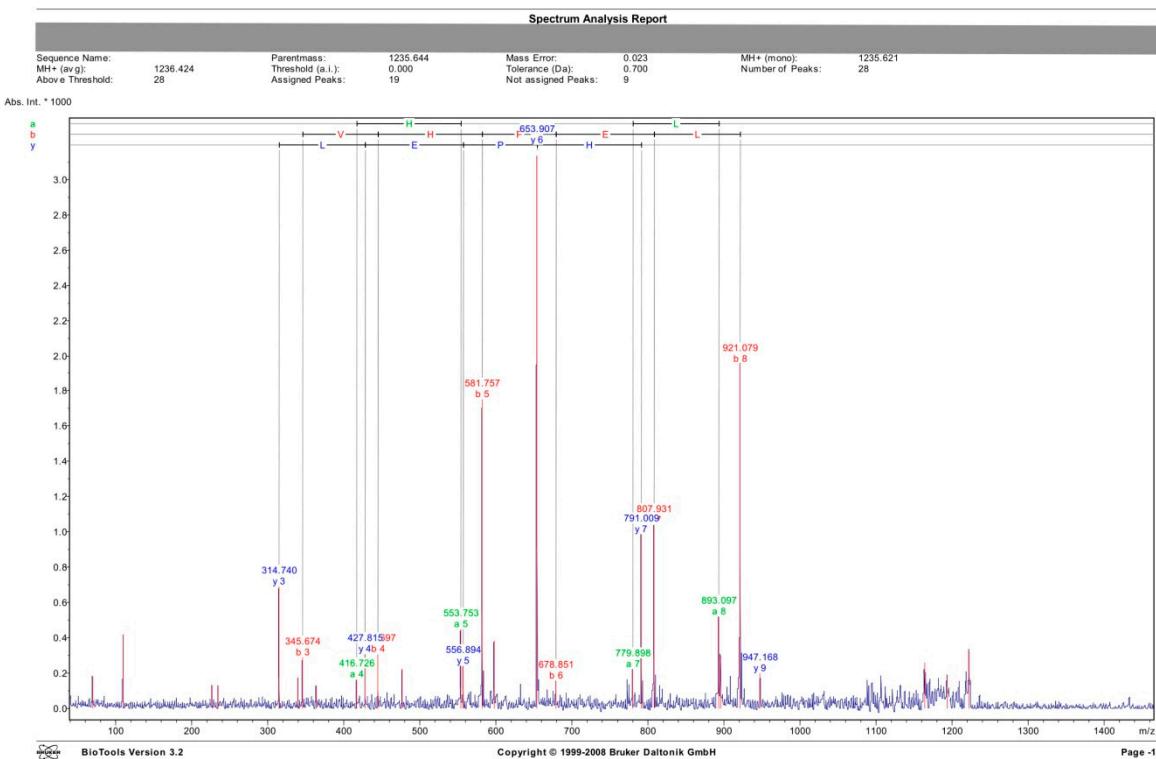
Area 3. Annotated MS spectrum 3.

Area 4. Annotated MS/MS spectrum of ion 2250.354 m/z .

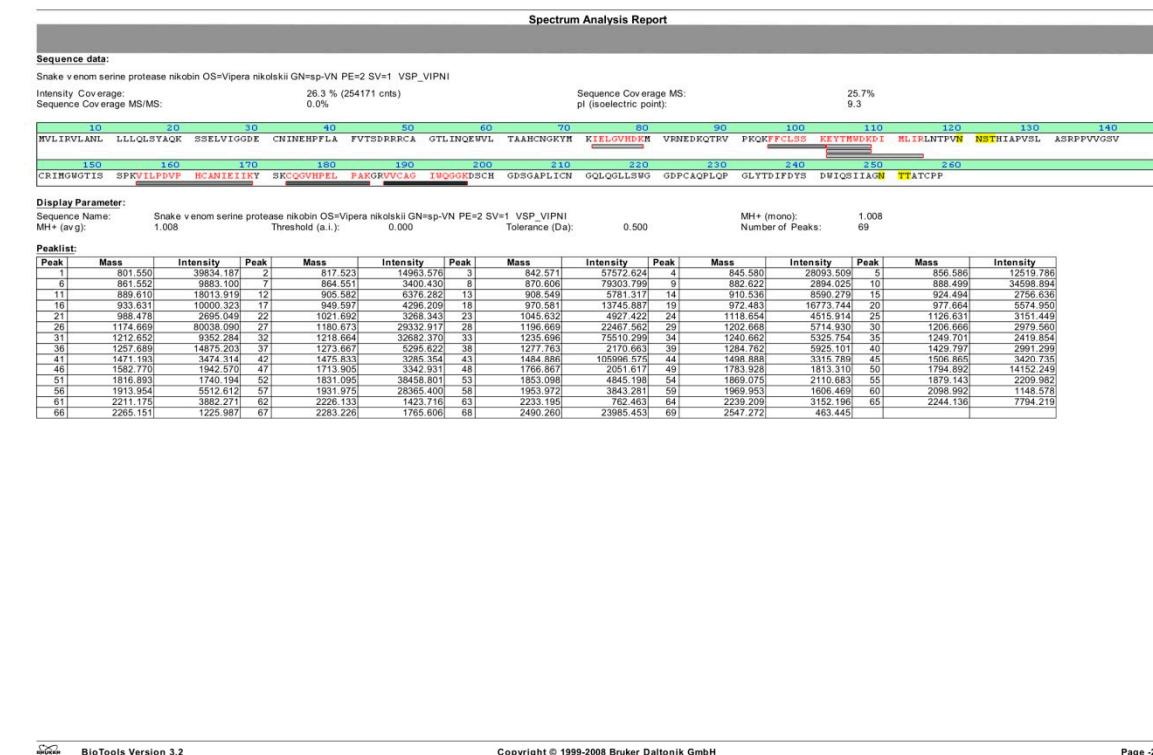
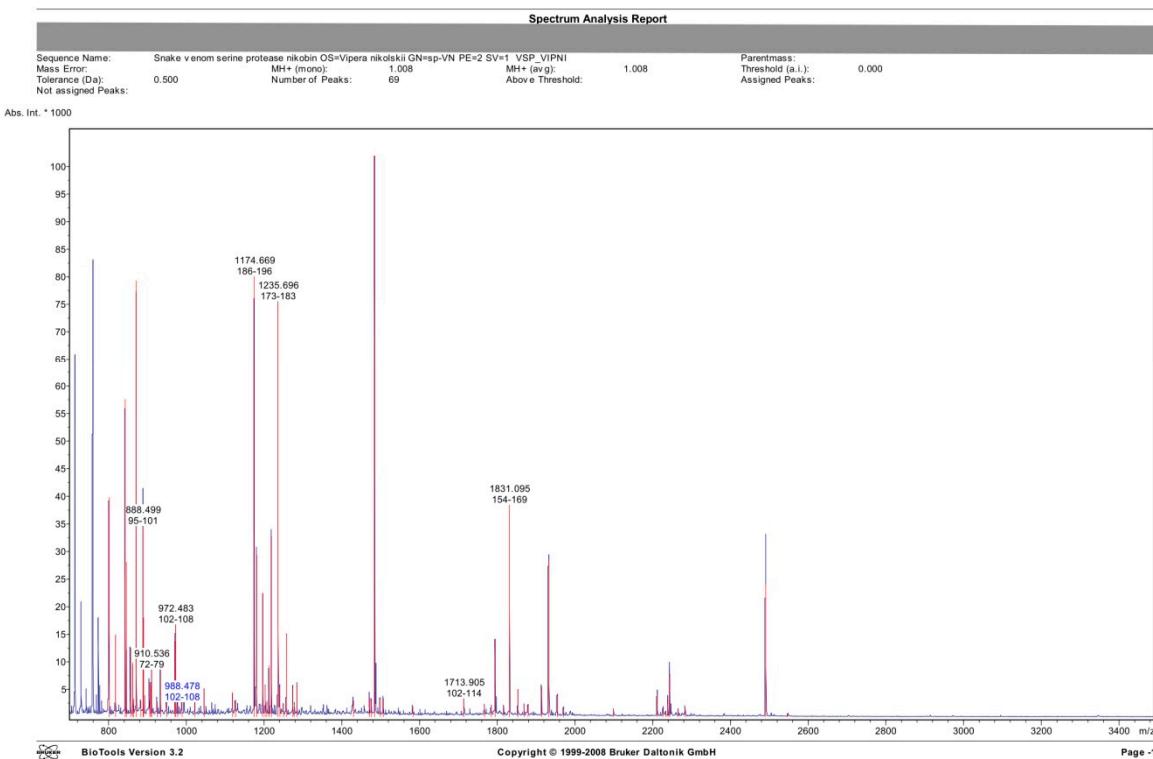


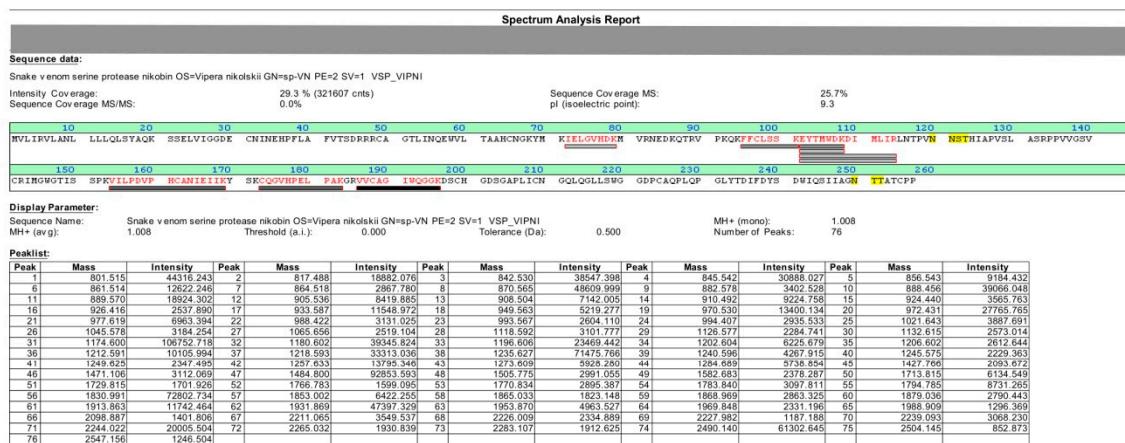
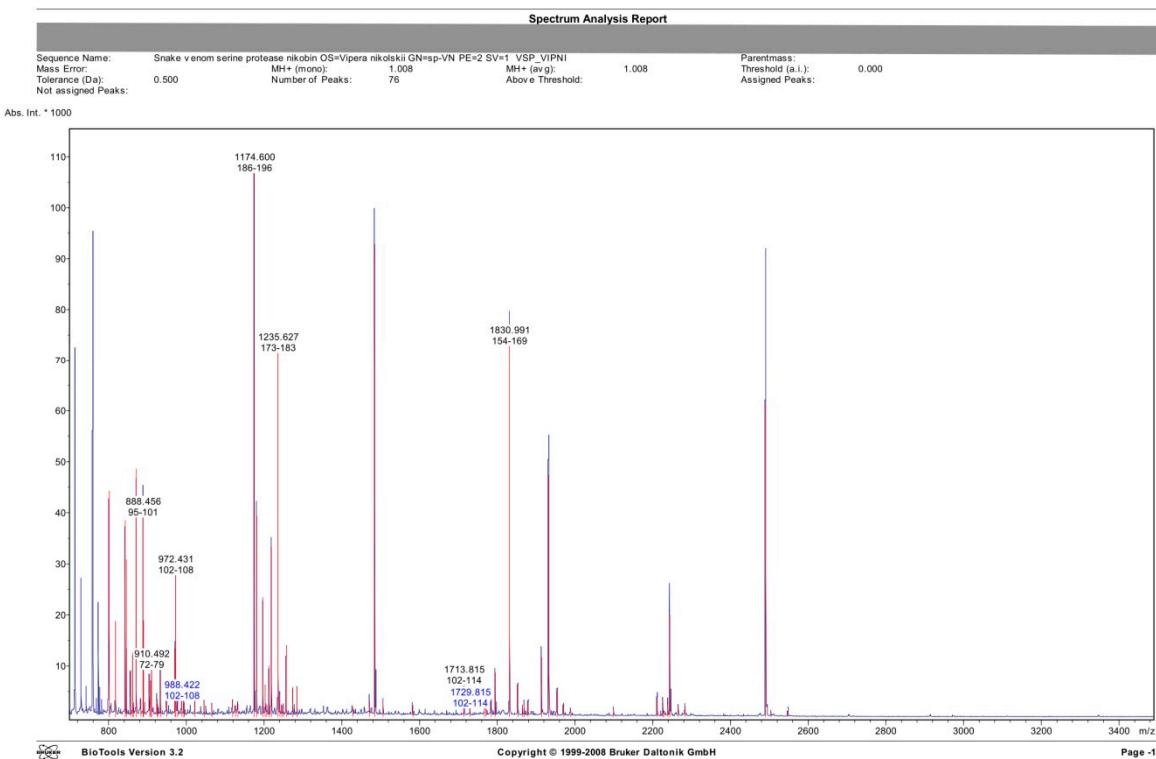
Area 4. Annotated MS/MS spectrum of ion 1174.611 m/z .

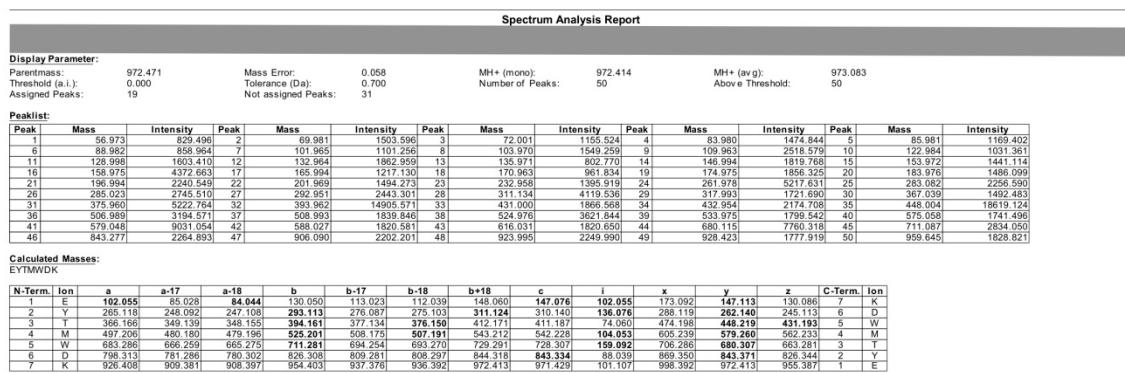
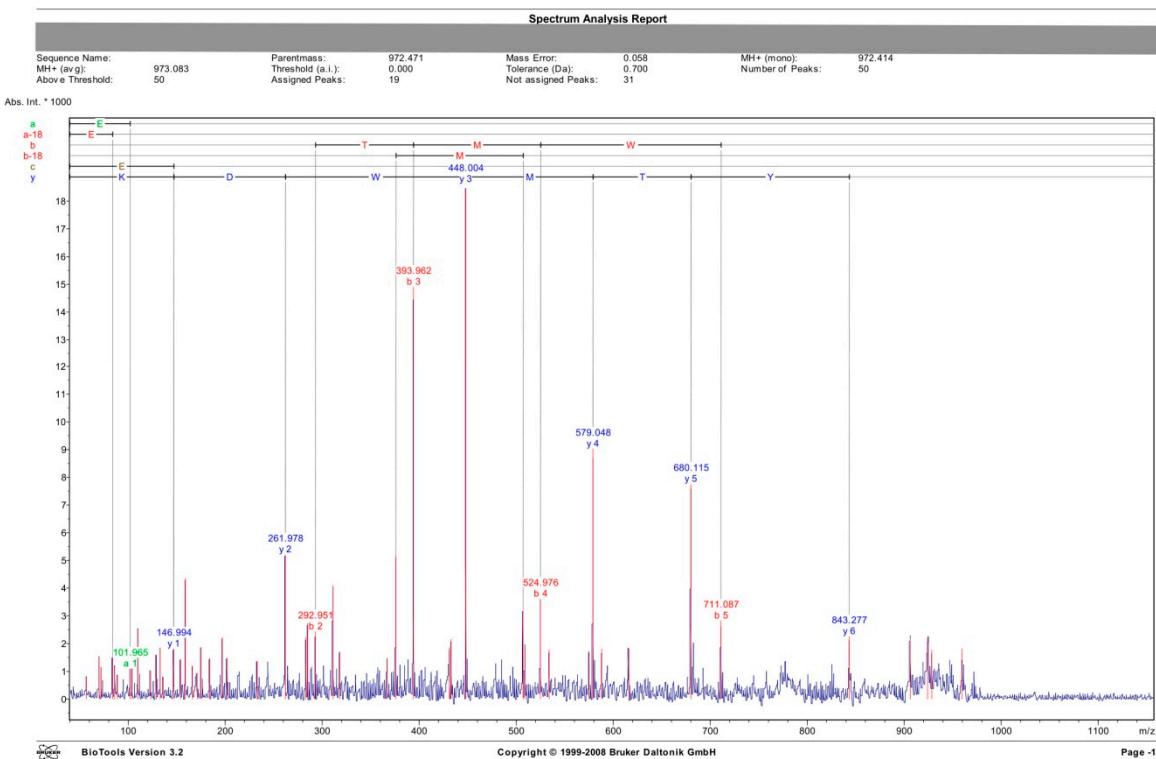


Area 4. Annotated MS/MS spectrum of ion 1235.644 *m/z*.

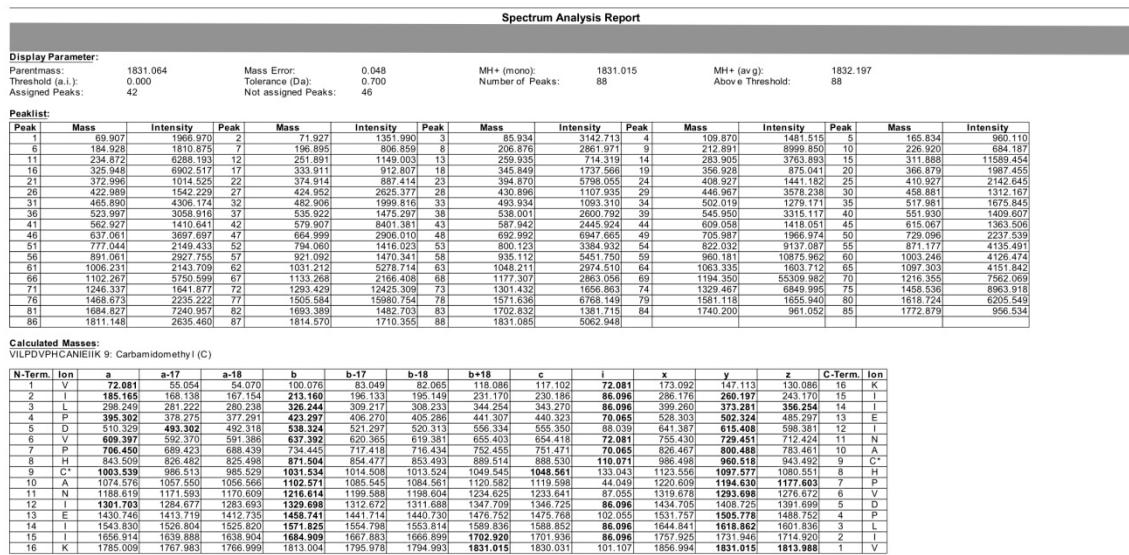
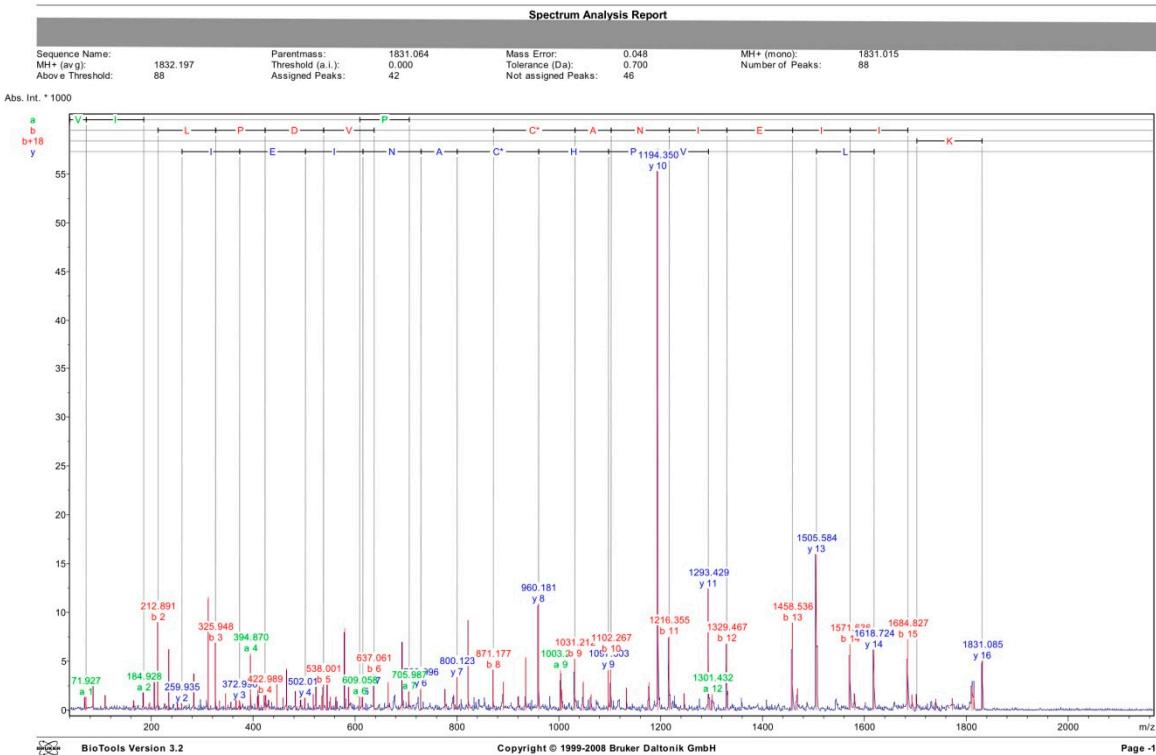
Area 4. Annotated MS spectrum 1.



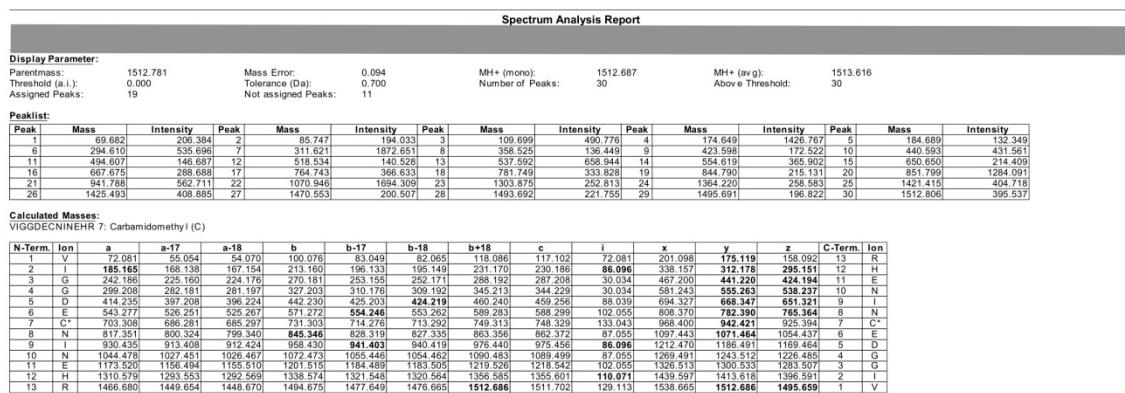
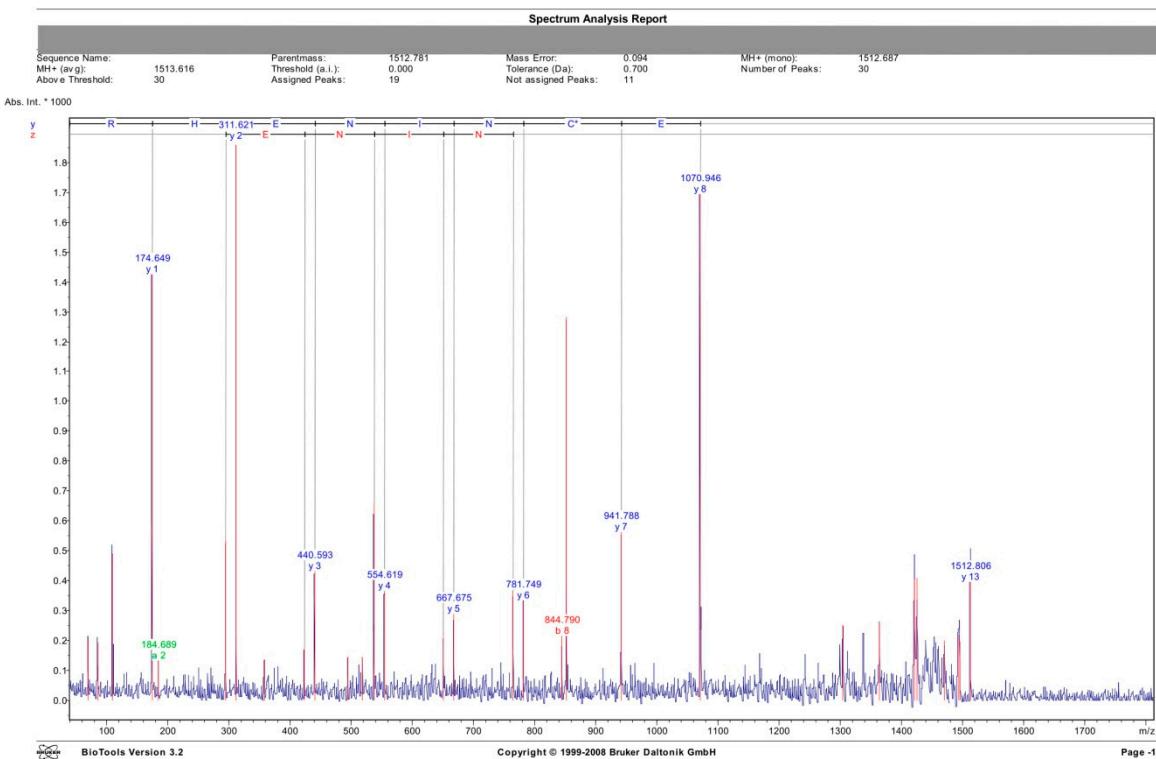
Area 4. Annotated MS spectrum 2.

Area 4. Annotated MS/MS spectrum of ion 972.471 m/z.

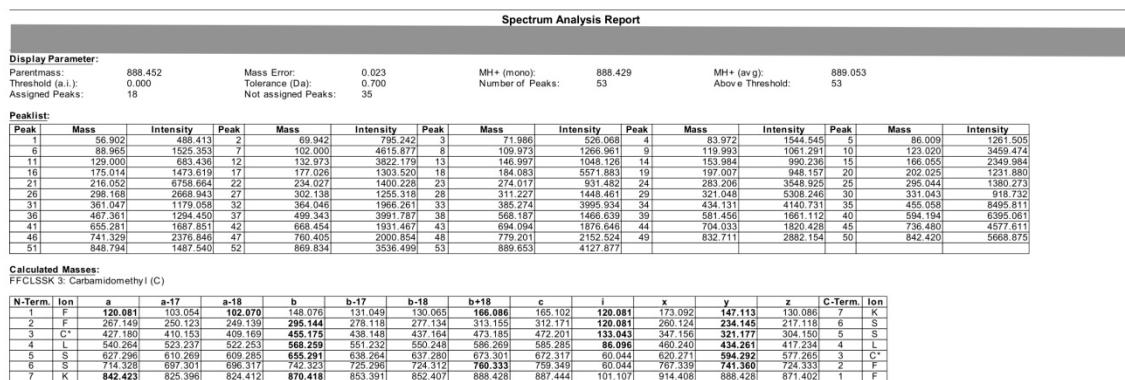
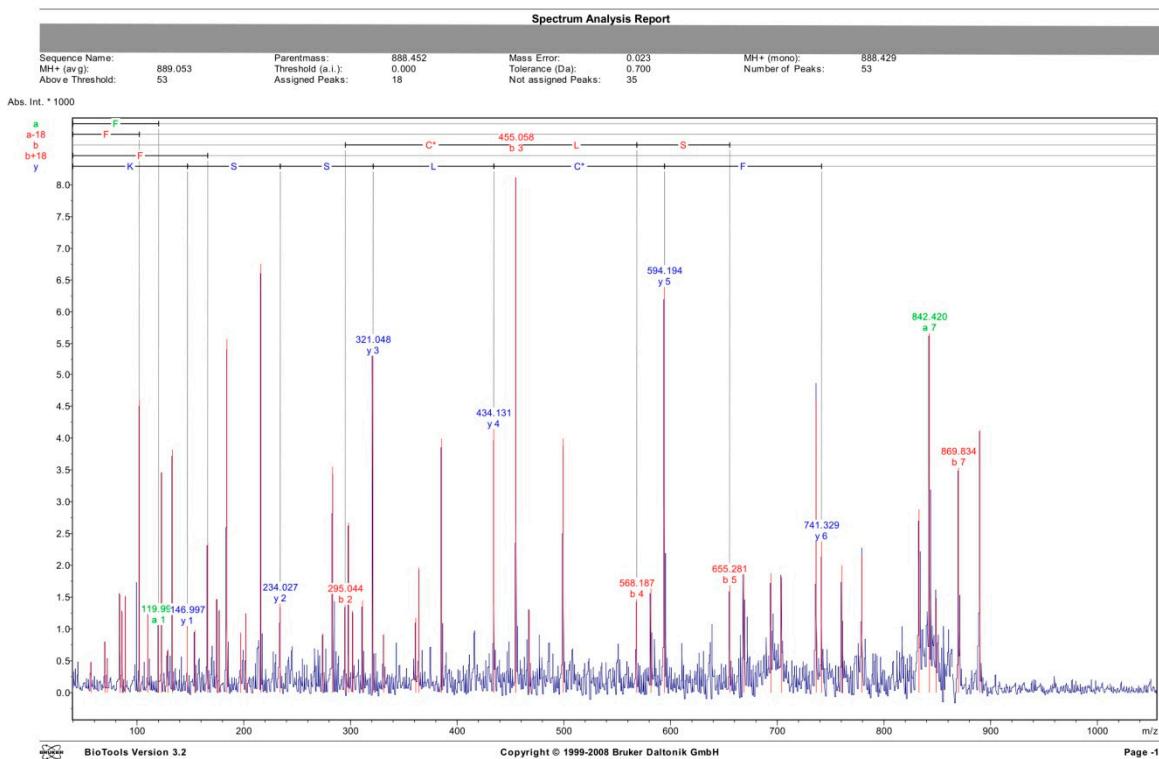
Area 4. Annotated MS/MS spectrum of ion 1831.064 m/z .



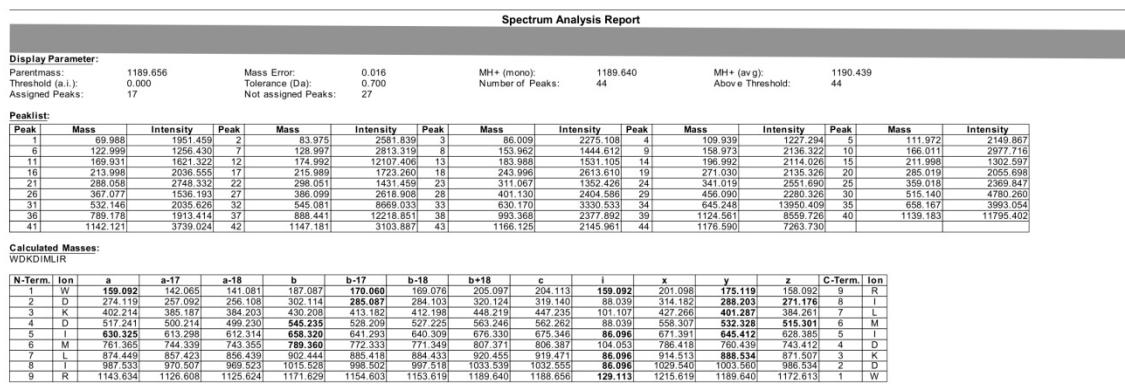
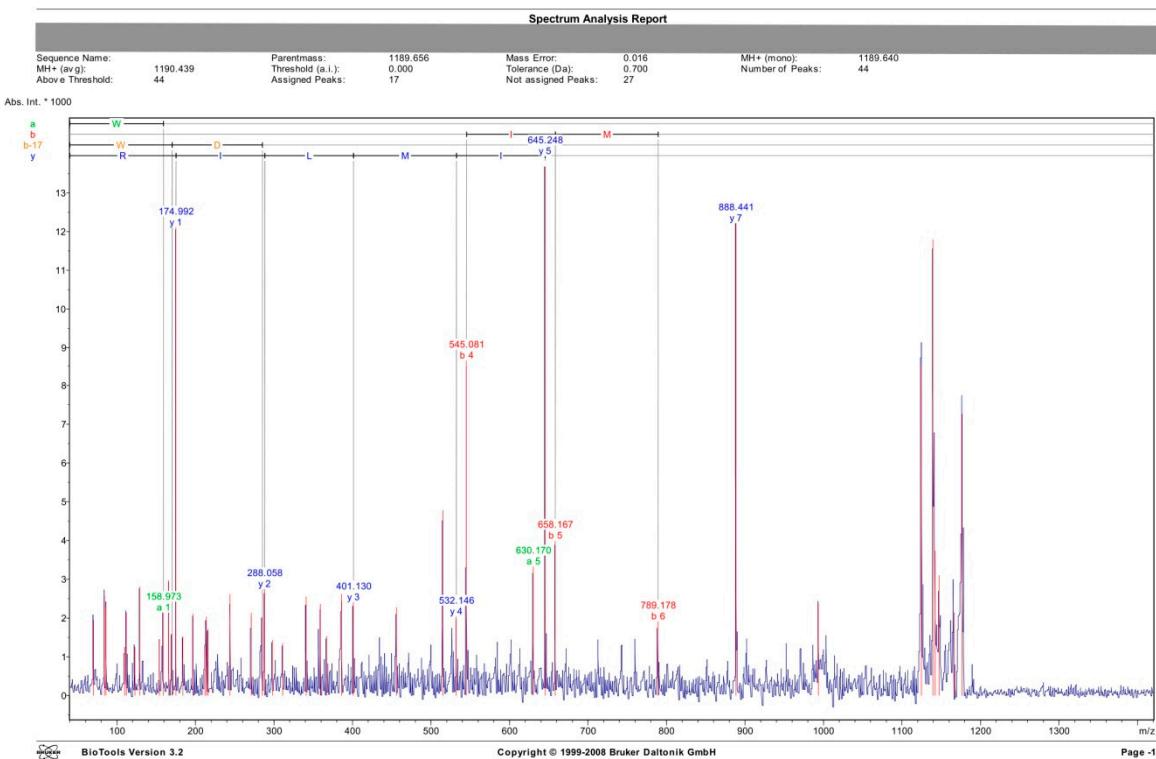
Area 5. Annotated MS/MS spectrum of ion 1512.781 *m/z*.



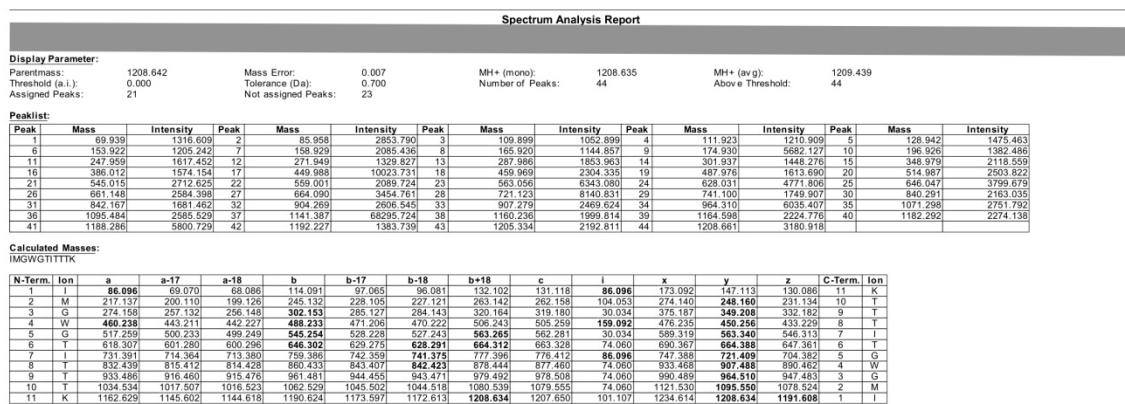
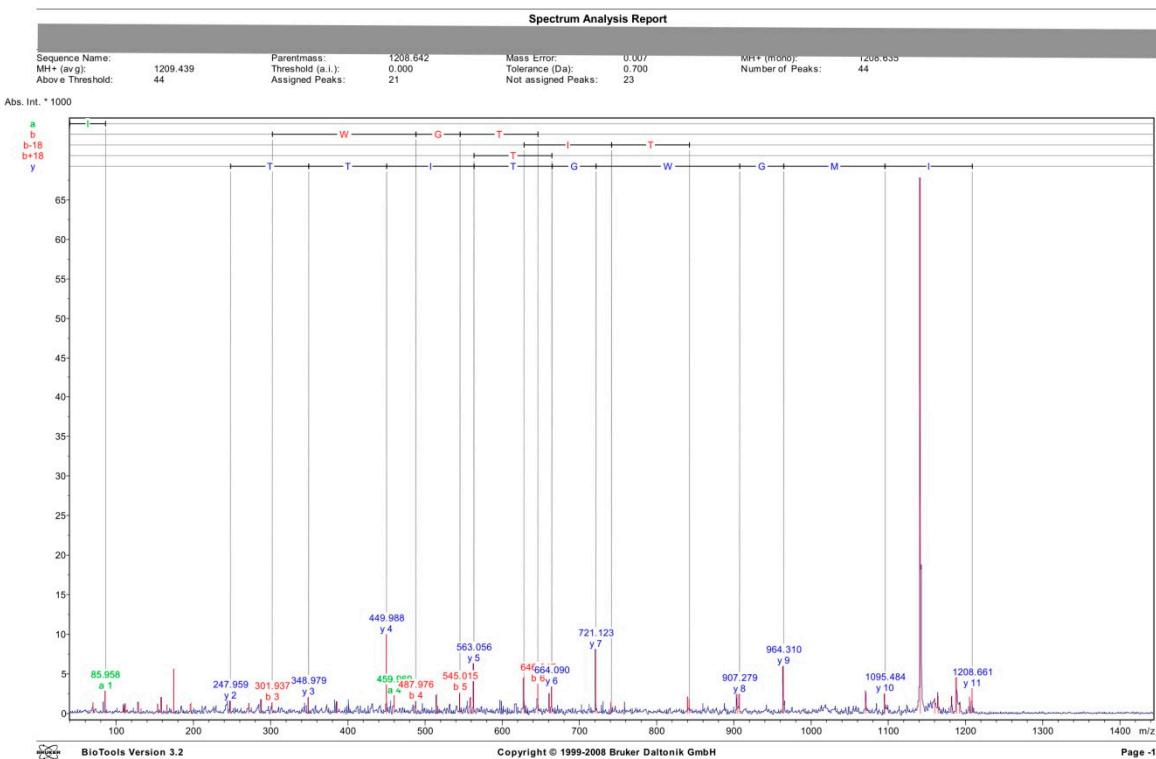
Area 5. Annotated MS/MS spectrum of ion 888.452 m/z.



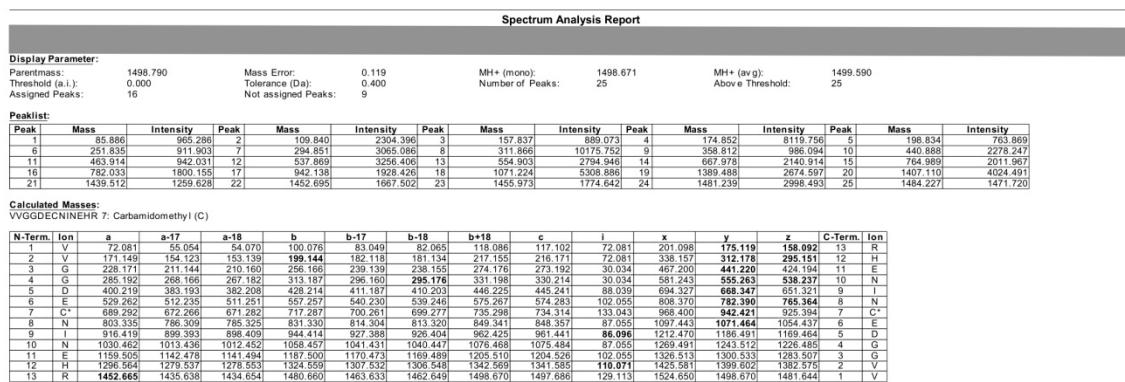
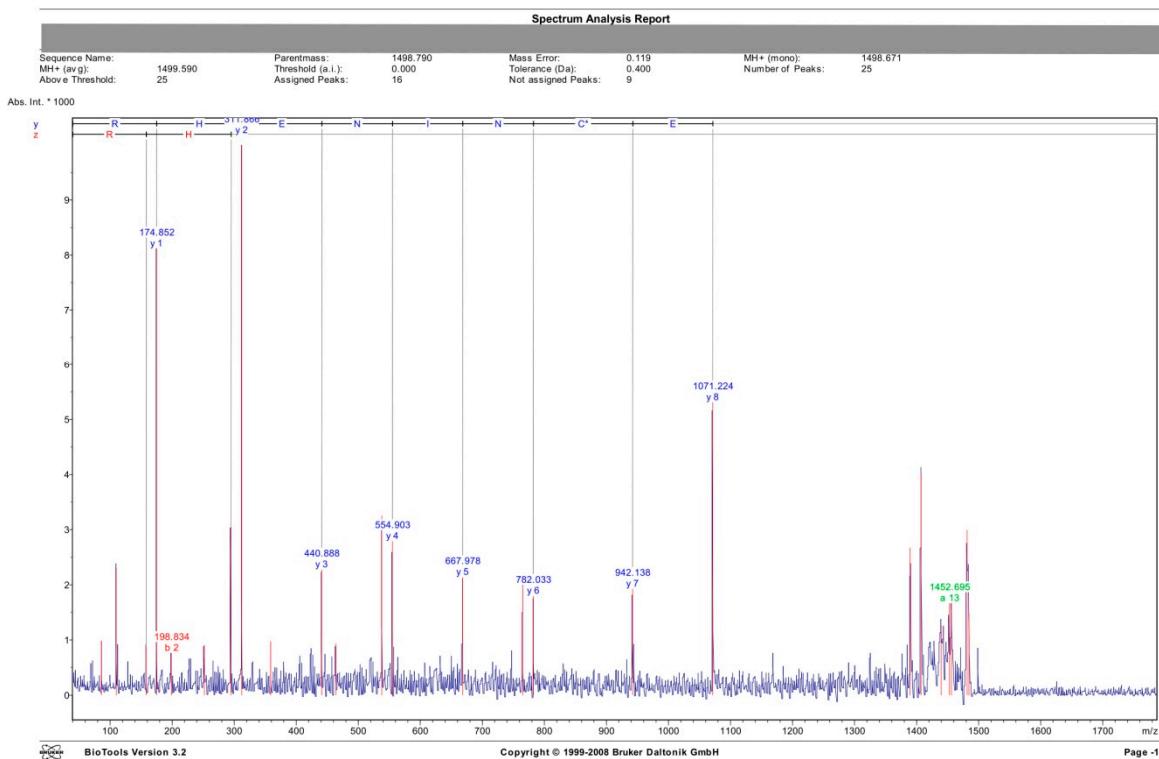
Area 5. Annotated MS/MS spectrum of ion 1189.656 m/z.



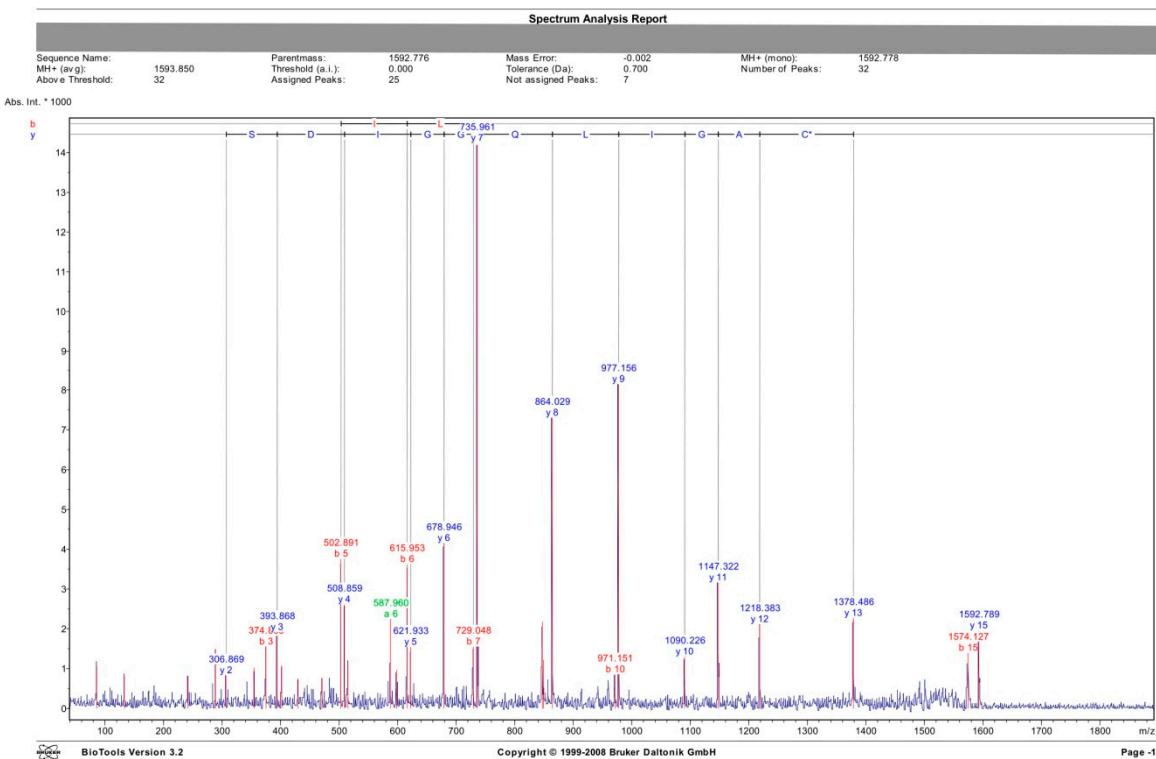
Area 5. Annotated MS/MS spectrum of ion 1208.642 m/z.



Area 5. Annotated MS/MS spectrum of ion 1498.790 m/z.



Area 5. Annotated MS/MS spectrum of ion 1592.776 m/z.



Spectrum Analysis Report

Display Parameter:
Parentmass: 1592.776 Mass Error: -0.002 MH+ (mono): 1592.778 MH+ (avg): 1593.850
Threshold (a.i.): 0.000 Tolerance (Da): 0.700 Number of Peaks: 32 Above Threshold: 32
Assigned Peaks: 25 Not assigned Peaks: 7

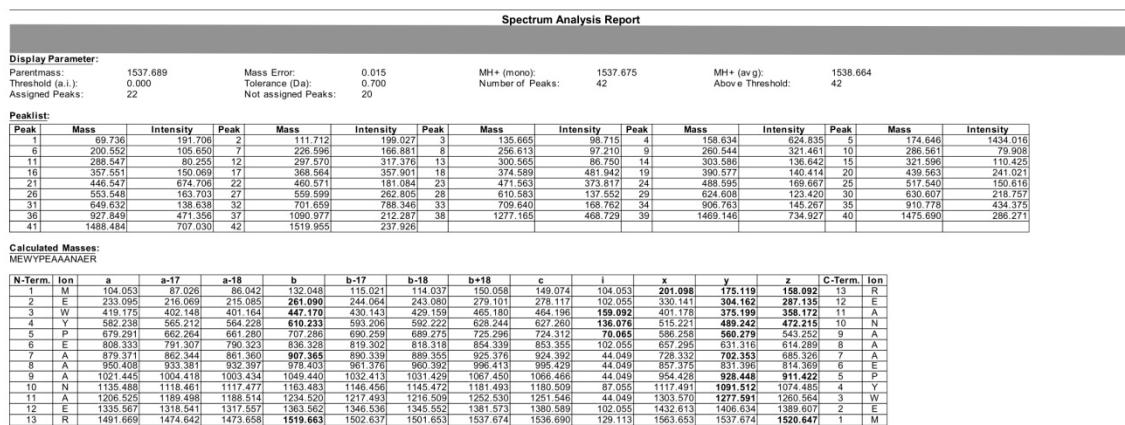
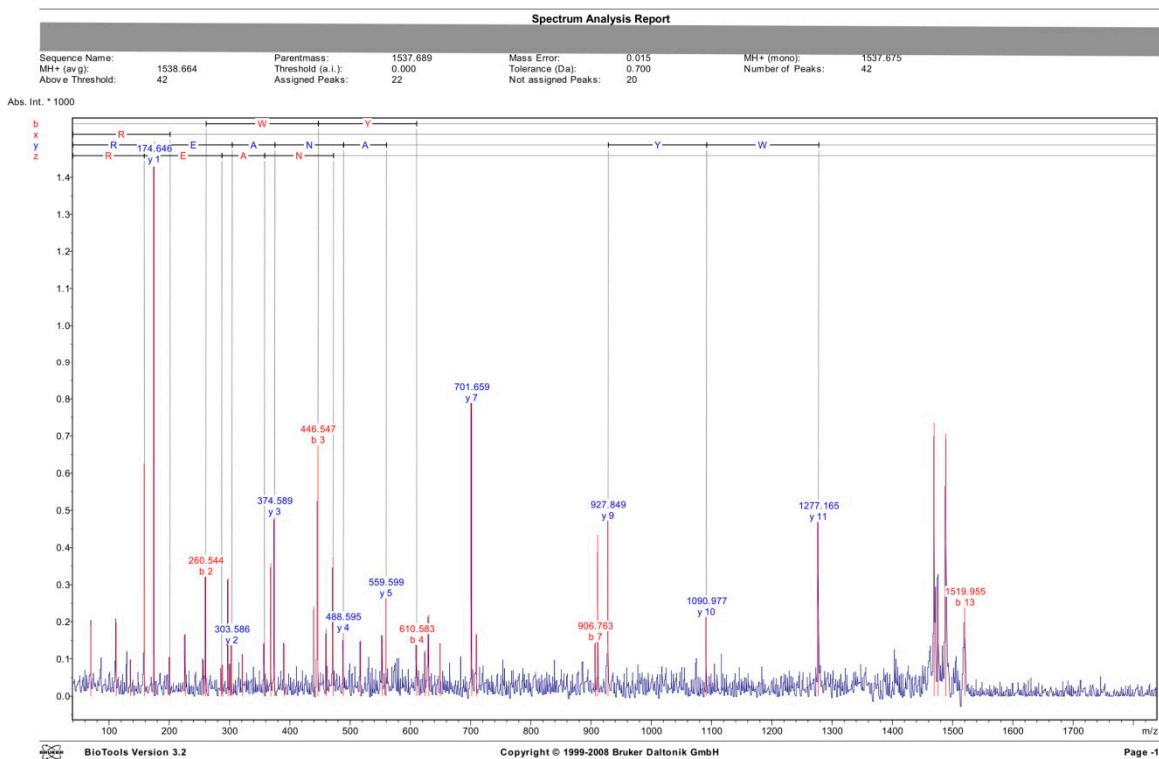
Peaklist:

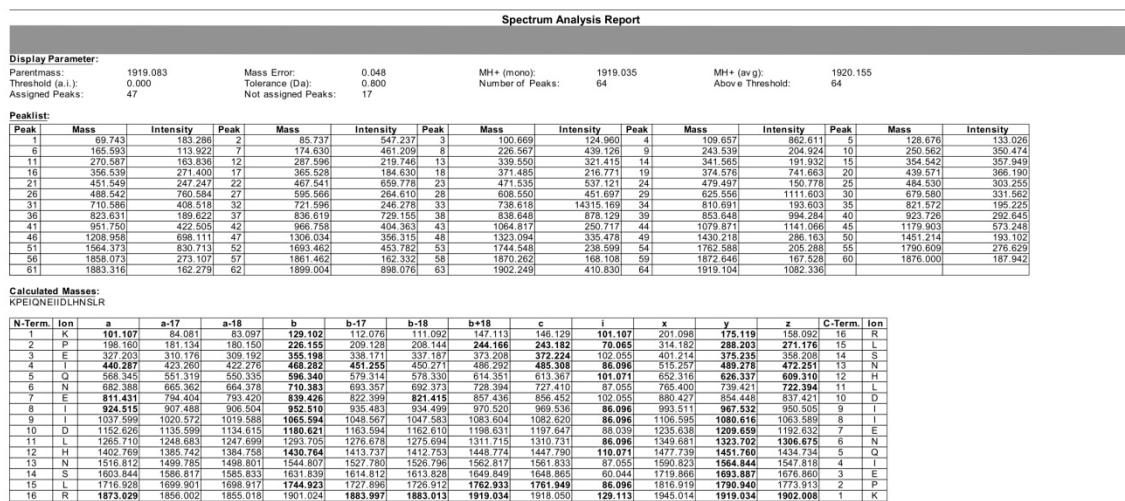
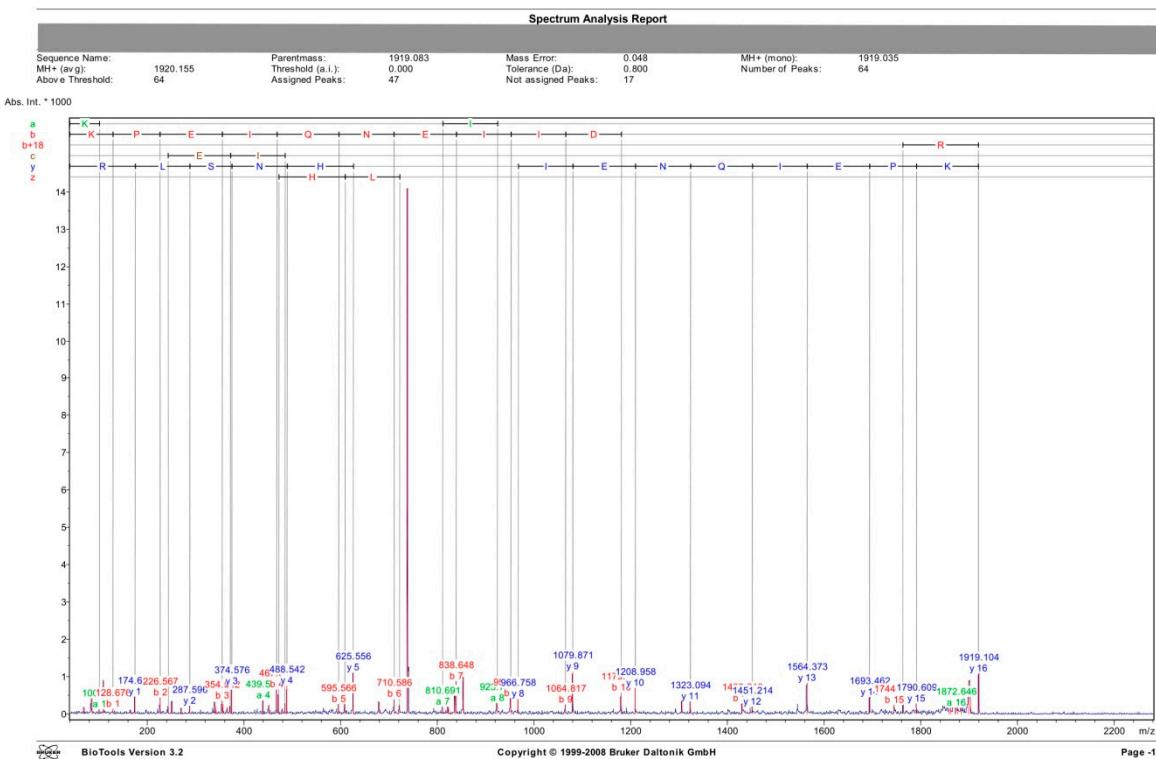
Peak	Mass	Intensity												
1	85.905	1063.412	2	132.847	830.626	3	241.891	817.863	4	288.827	1496.918	5	306.869	829.366
6	354.904	1029.595	7	374.863	1551.329	8	393.868	1915.657	9	401.873	1086.438	10	429.880	743.303
11	401.186	1072.591	12	502.891	375.170	13	398.861	2011.650	14	514.891	1103.545	15	587.960	1045.748
16	587.960	969.469	17	615.953	358.143	18	621.933	1545.009	19	678.946	4151.695	20	729.048	1260.707
21	735.961	14240.065	22	847.039	2181.152	23	848.956	1222.166	24	864.029	7304.431	25	971.151	855.766
26	977.156	8147.261	27	1090.226	1301.177	28	1147.322	3160.719	29	1218.383	2116.883	30	1378.486	1376.486
31	1574.127	1396.536	32	1592.789	1961.810									2272.304

Calculated Masses:
TLCAGILGGIDSK3. Carbamidomethyl (C) 14: Carbamidomethyl (C)

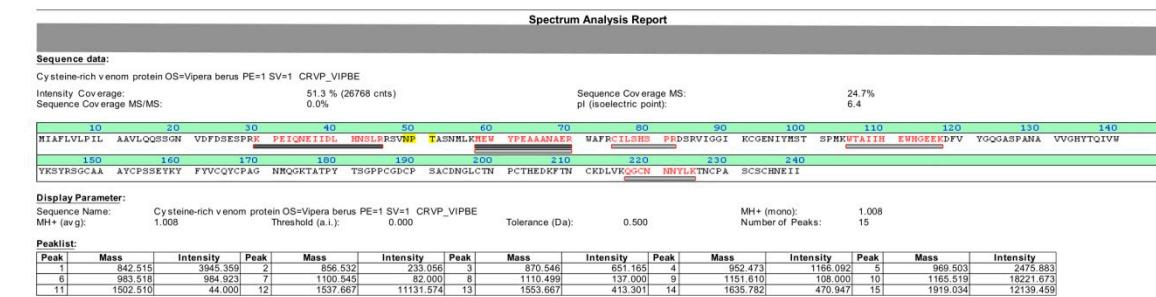
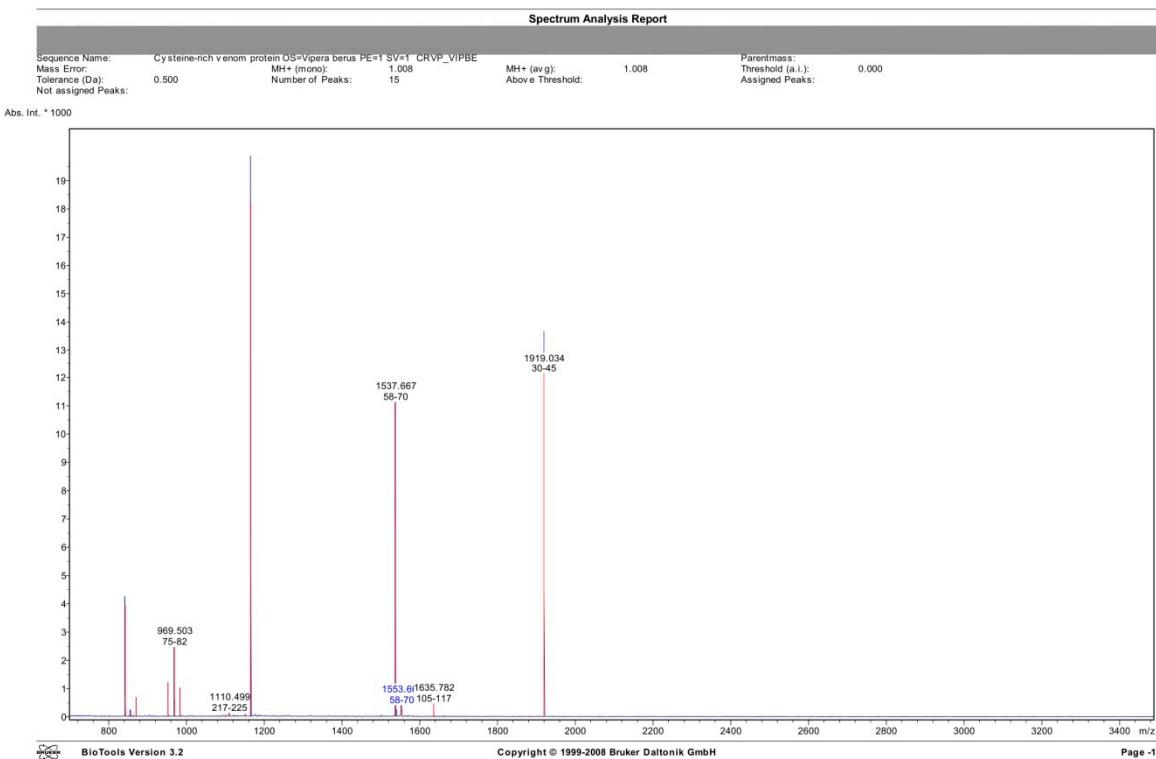
N-Term.	Ion	a	a-17	a-18	b	b-17	b-18	b+18	c	i	x	y	z	C-Term.	Ion
1		74.060	57.033	56.049	102.055	85.028	84.044	120.066	119.082	74.060	173.092	147.113	130.086	15	W
2	L	187.144	170.118	169.134	215.139	198.112	197.128	233.150	232.166	86.096	333.123	307.143	290.117	14	C*
3	C*	347.175	330.148	329.164	375.170	358.143	357.159	393.180	392.196	133.043	420.155	394.175	377.149	13	S
4	A	418.212	401.186	400.201	445.207	428.180	428.196	464.217	463.233	44.046	533.207	509.205	495.176	12	D
5	G	493.243	462.217	462.233	508.243	486.202	485.218	521.239	520.256	30.034	548.266	522.264	505.231	11	E
6	I	588.317	571.291	570.307	616.312	599.286	598.302	634.323	633.339	86.096	705.287	679.308	662.281	10	G
7	L	701.401	684.375	684.391	729.396	712.370	711.386	747.407	746.423	86.096	762.309	736.329	719.303	9	G
8	Q	829.460	812.433	811.449	857.455	840.428	839.444	875.469	874.481	101.071	890.367	864.388	847.361	8	O
9	G	904.501	886.474	886.491	931.517	907.474	906.491	932.517	931.535	30.034	931.535	906.544	886.514	1	L
10	G	943.503	926.476	925.492	971.498	954.471	953.487	989.508	988.524	30.034	1116.535	1090.556	1073.530	6	I
11	I	1054.587	1039.560	1038.576	1084.582	1067.555	1066.571	1102.593	1101.608	86.096	1173.557	1147.578	1130.551	5	G
12	D	1217.614	1154.581	1153.603	1199.599	1181.592	1181.607	1217.619	1216.635	88.039	1244.594	1218.616	1201.586	4	A
13	S	1292.640	1240.519	1240.641	1326.641	1268.614	1268.630	1303.651	1303.667	60.044	1489.645	1291.595	1301.519	3	C*
14	C*	1416.677	1401.650	1400.666	1446.672	1429.645	1429.661	1464.682	1463.698	133.043	1517.709	1491.729	1474.703	2	U
15	K	1546.772	1529.745	1528.761	1574.767	1557.740	1556.756	1592.777	1591.793	101.107	1618.756	1575.751	1	T	

Area 6. Annotated MS/MS spectrum of ion 1537.689 m/z .

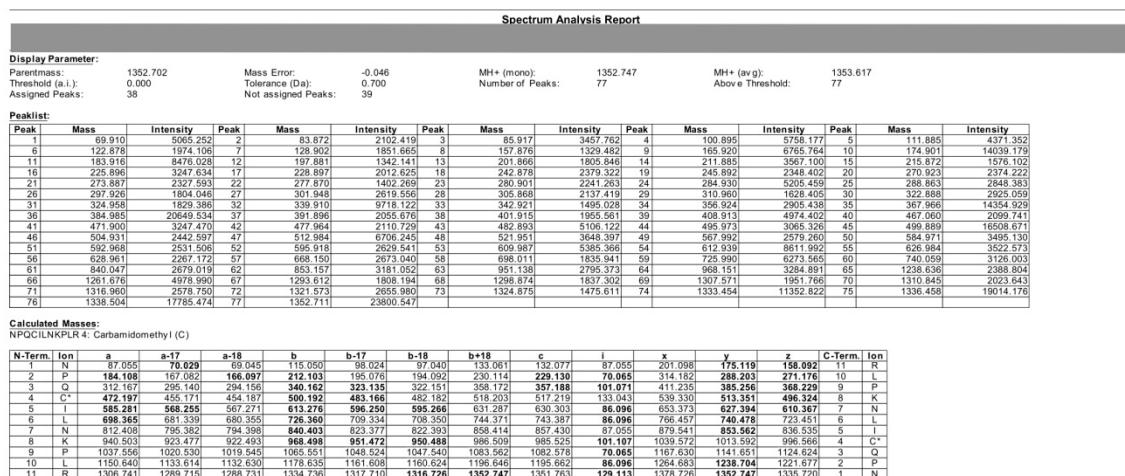
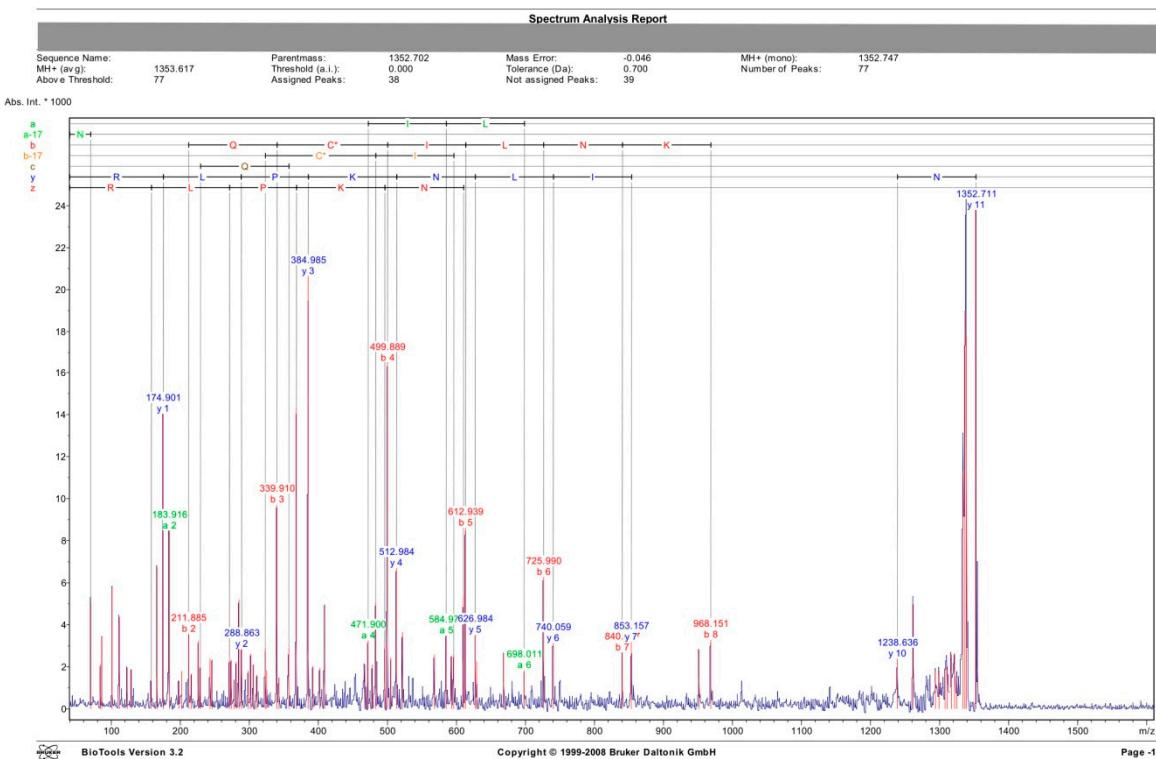


Area 6. Annotated MS/MS spectrum of ion 1919.083 m/z .

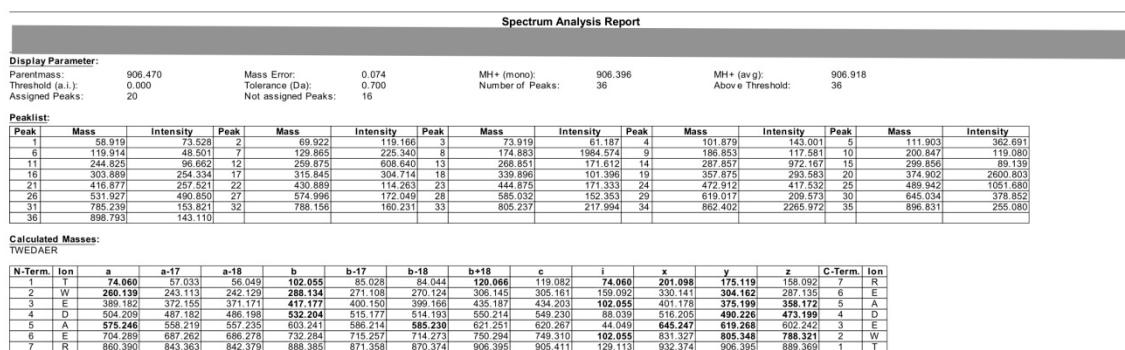
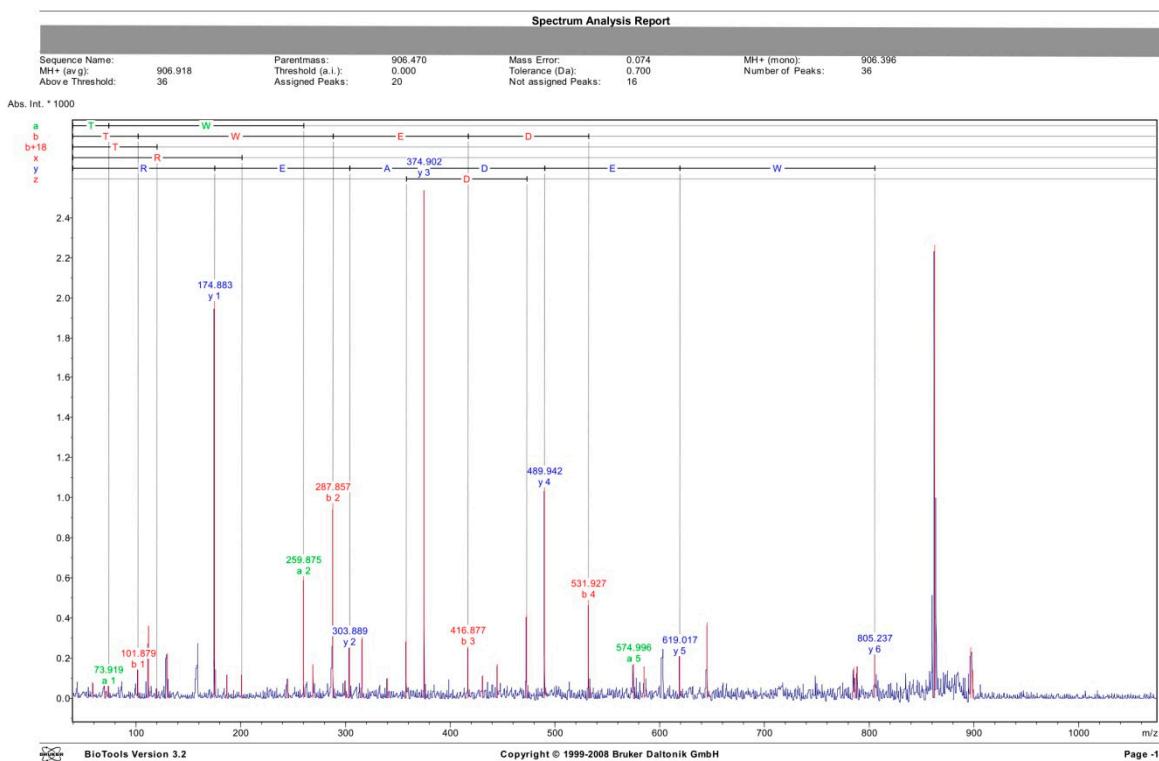
Area 6. Annotated MS spectrum.

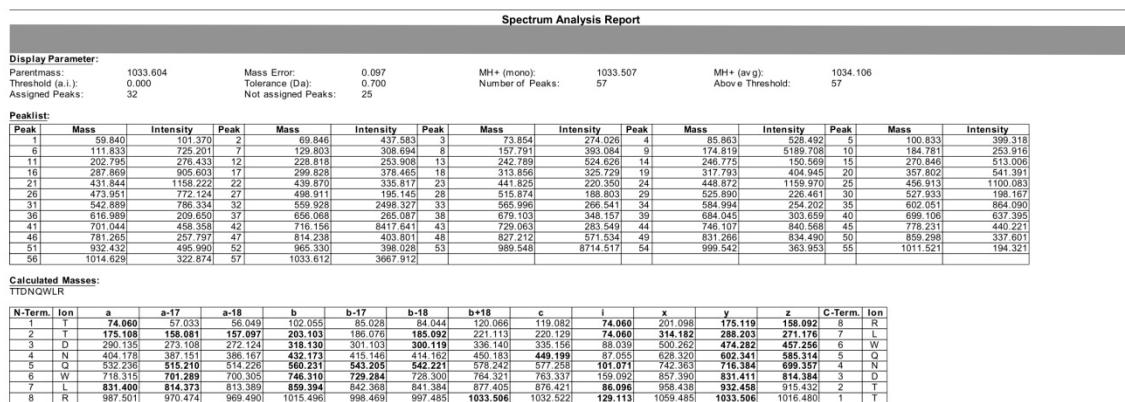
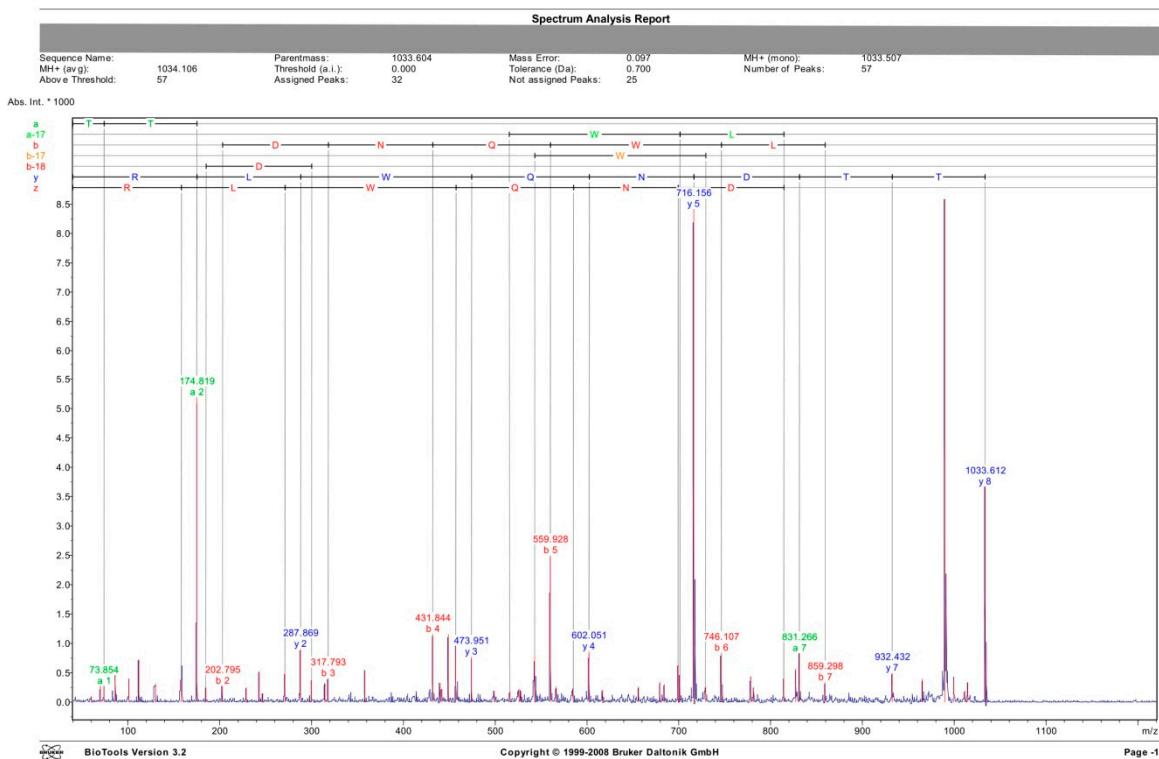


Area 7. Annotated MS/MS spectrum of ion 1352.702 m/z .

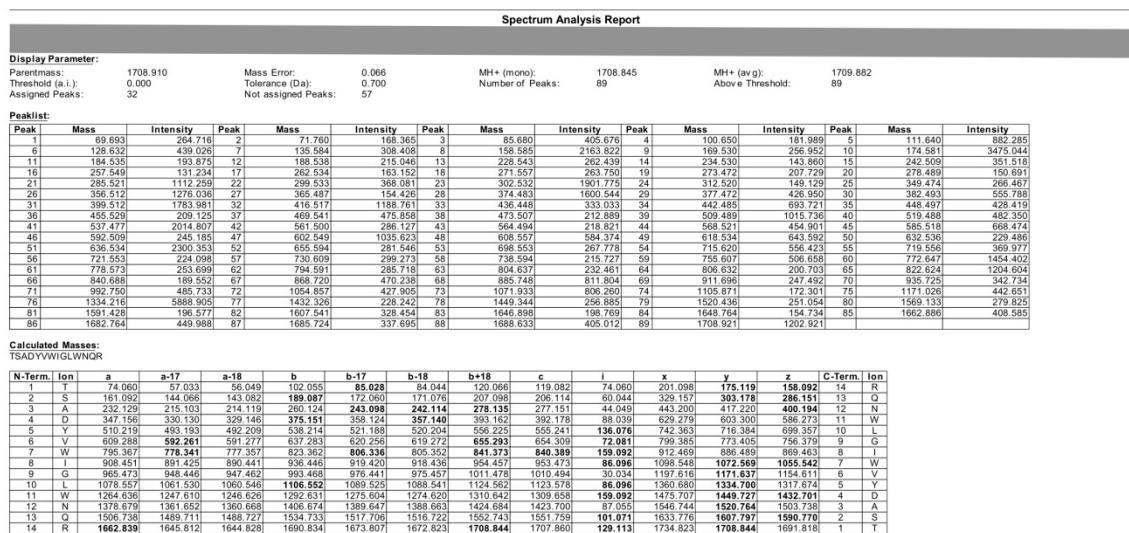
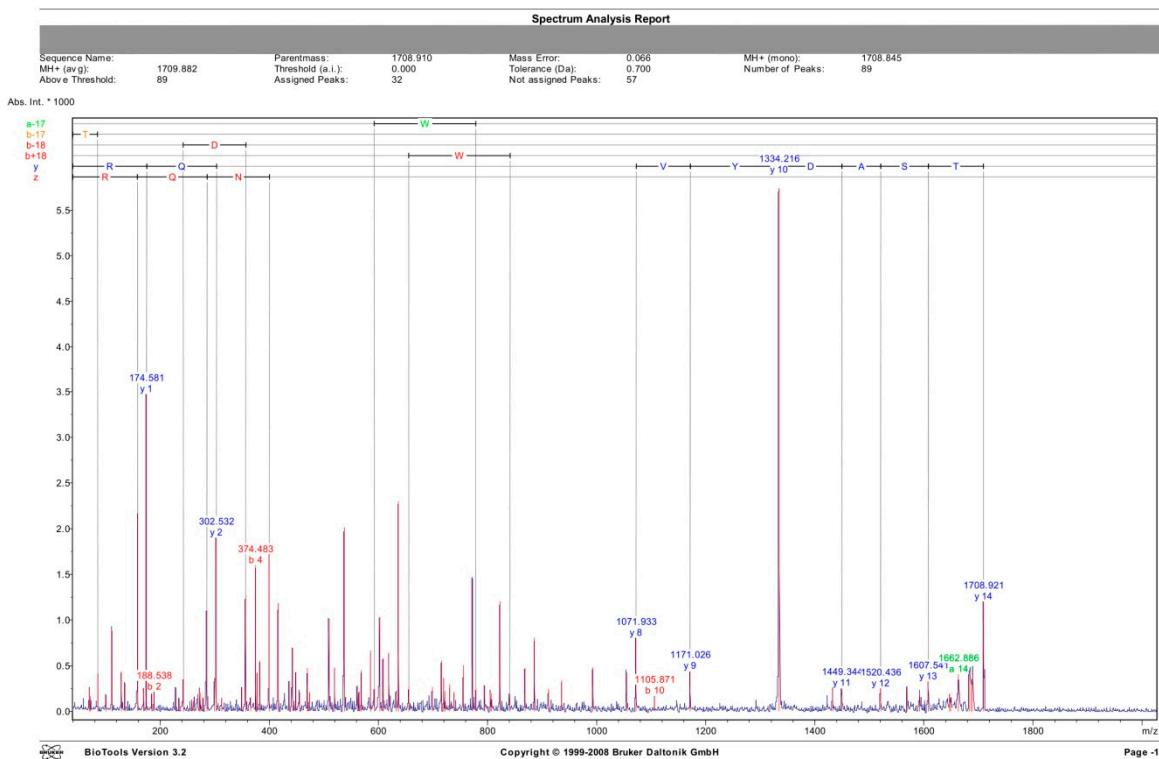


Area 8. Annotated MS/MS spectrum of ion 906.470 *m/z*.

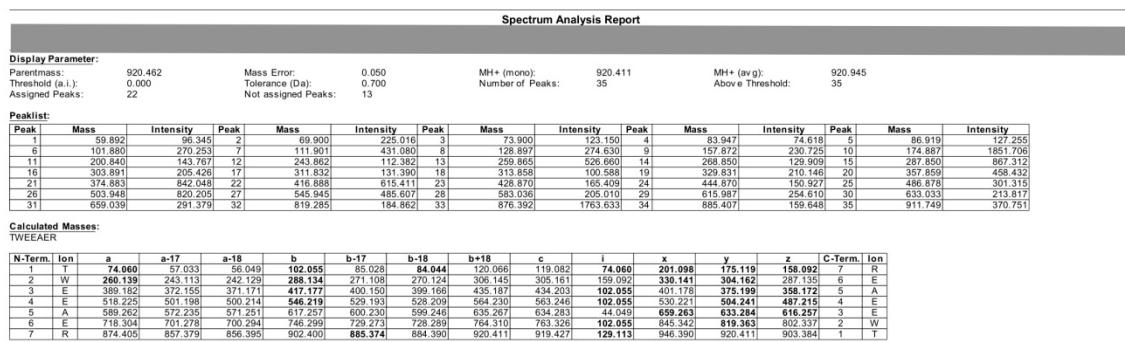
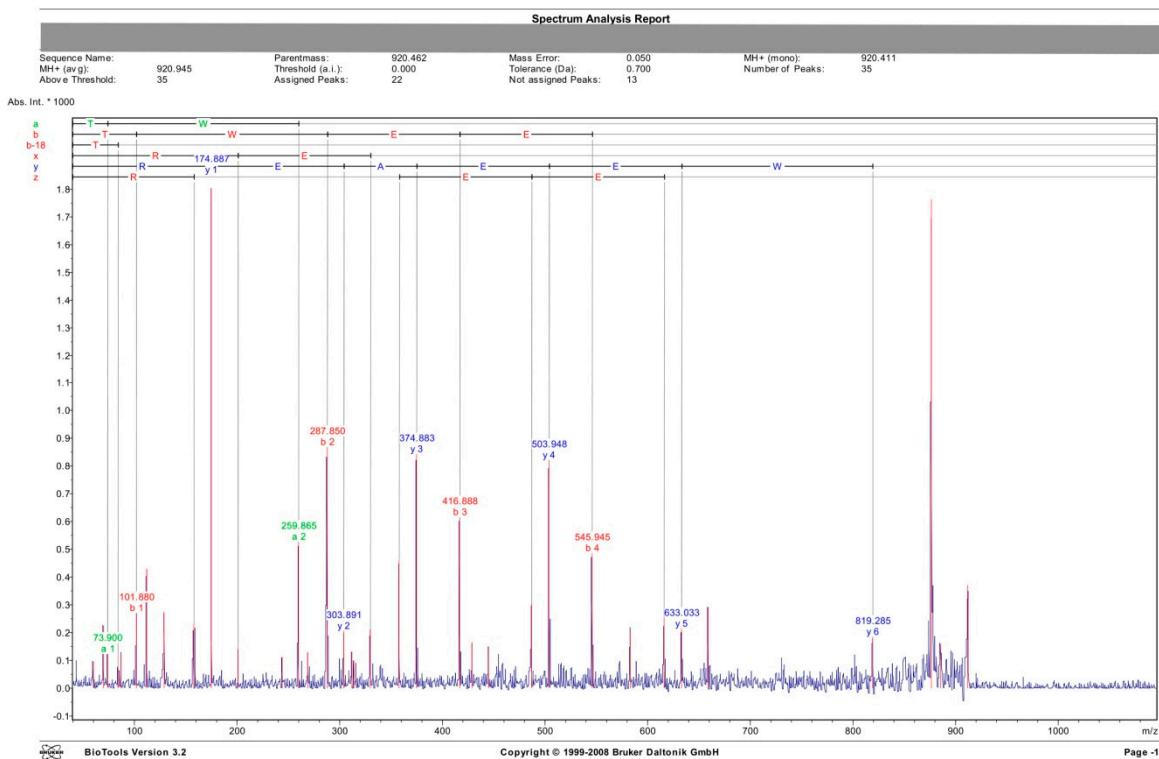


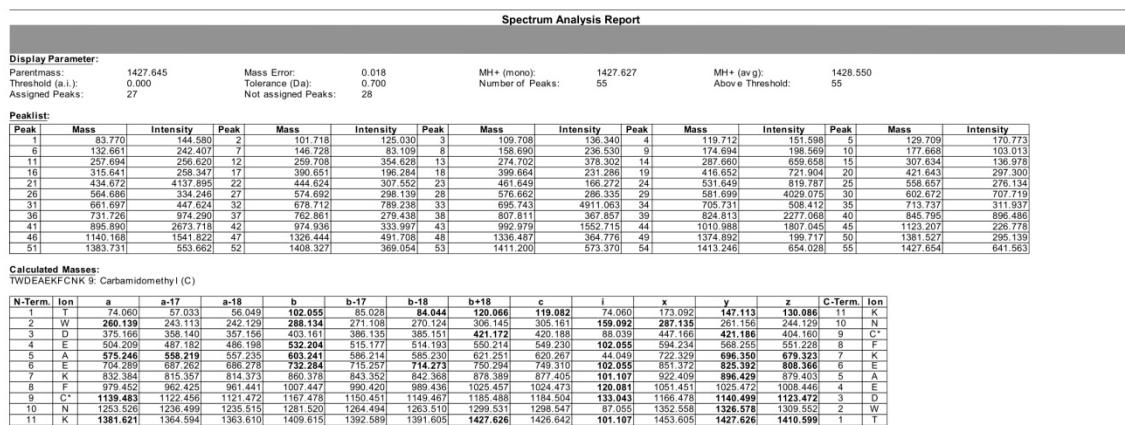
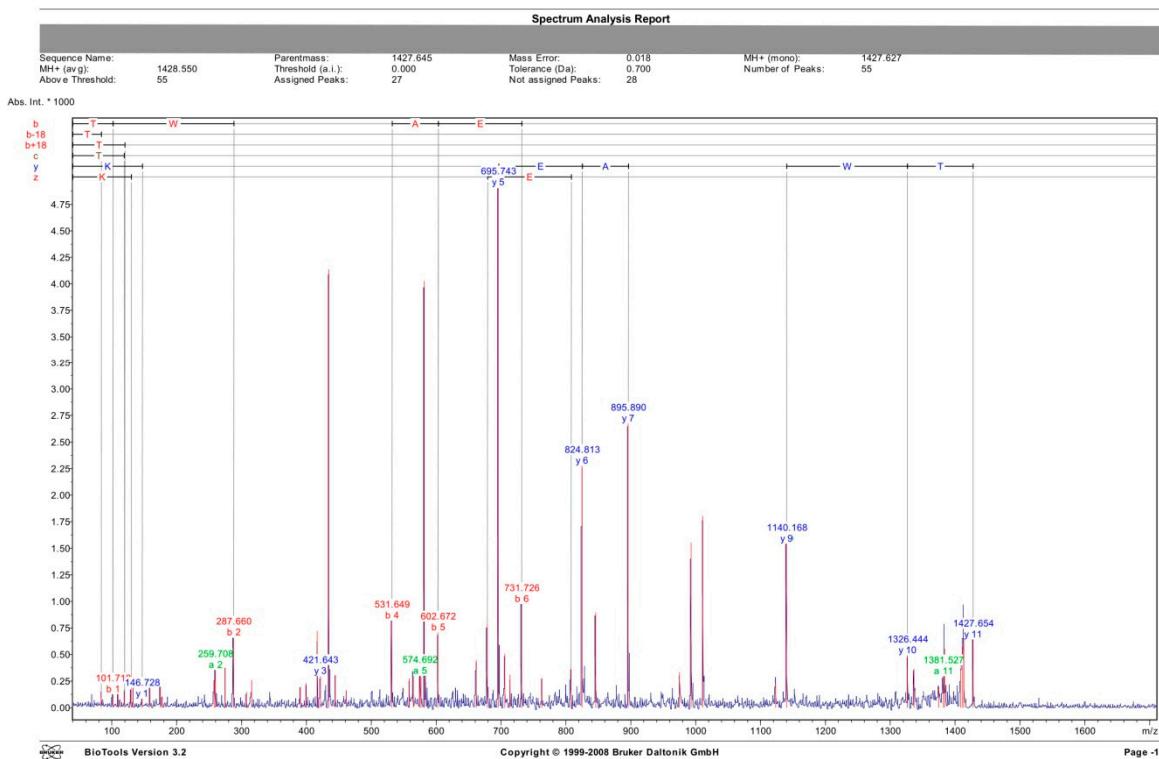
Area 8. Annotated MS/MS spectrum of ion 1033.604 m/z .

Area 8. Annotated MS/MS spectrum of ion 1708.910 m/z.

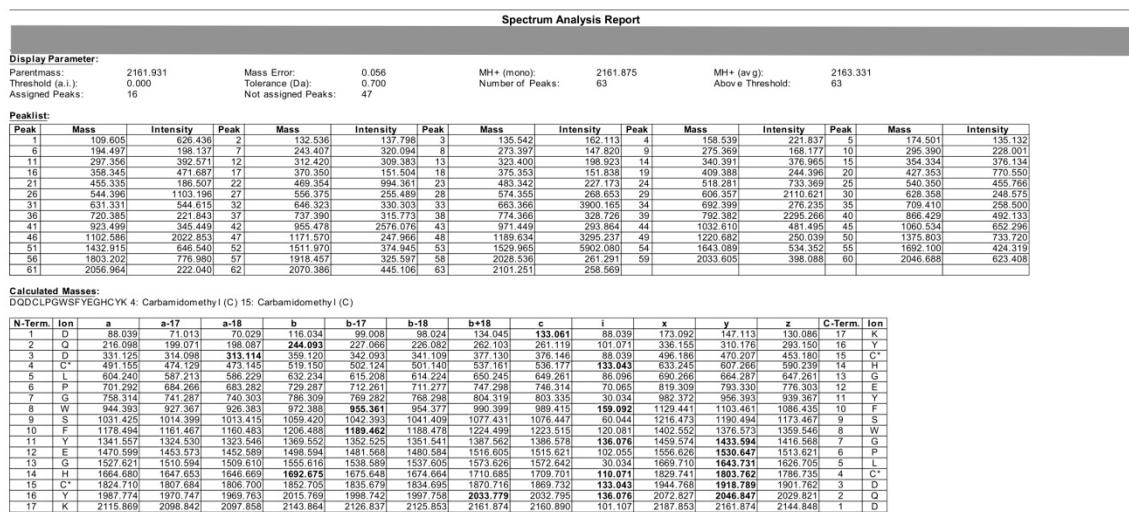
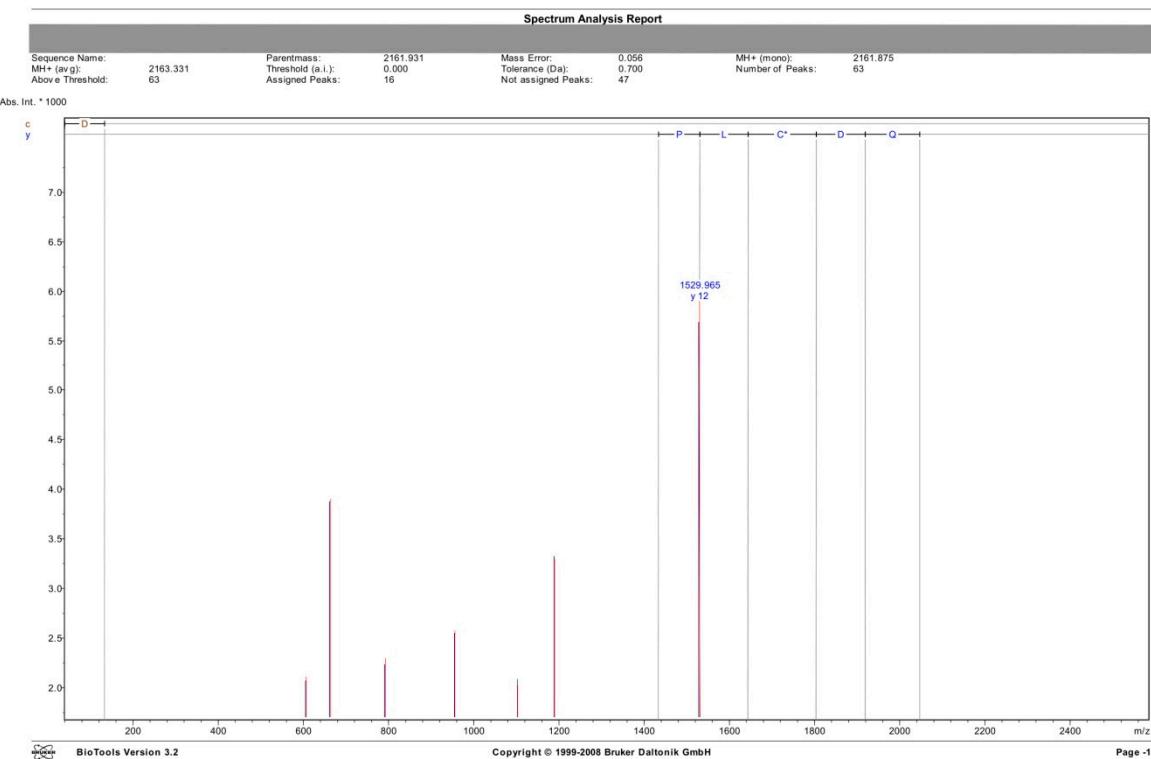


Area 8. Annotated MS/MS spectrum of ion 920.462 m/z .

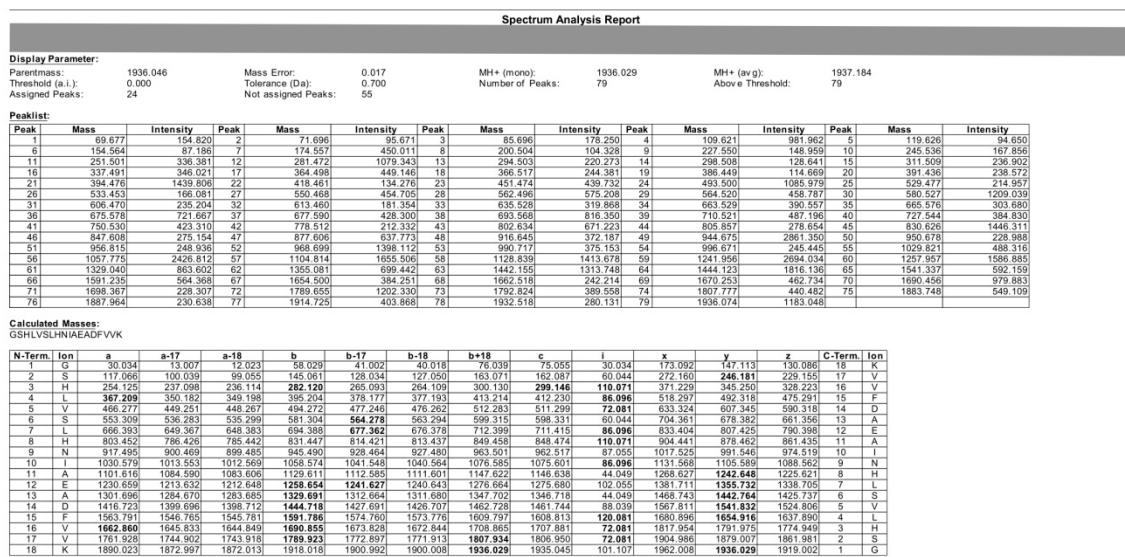
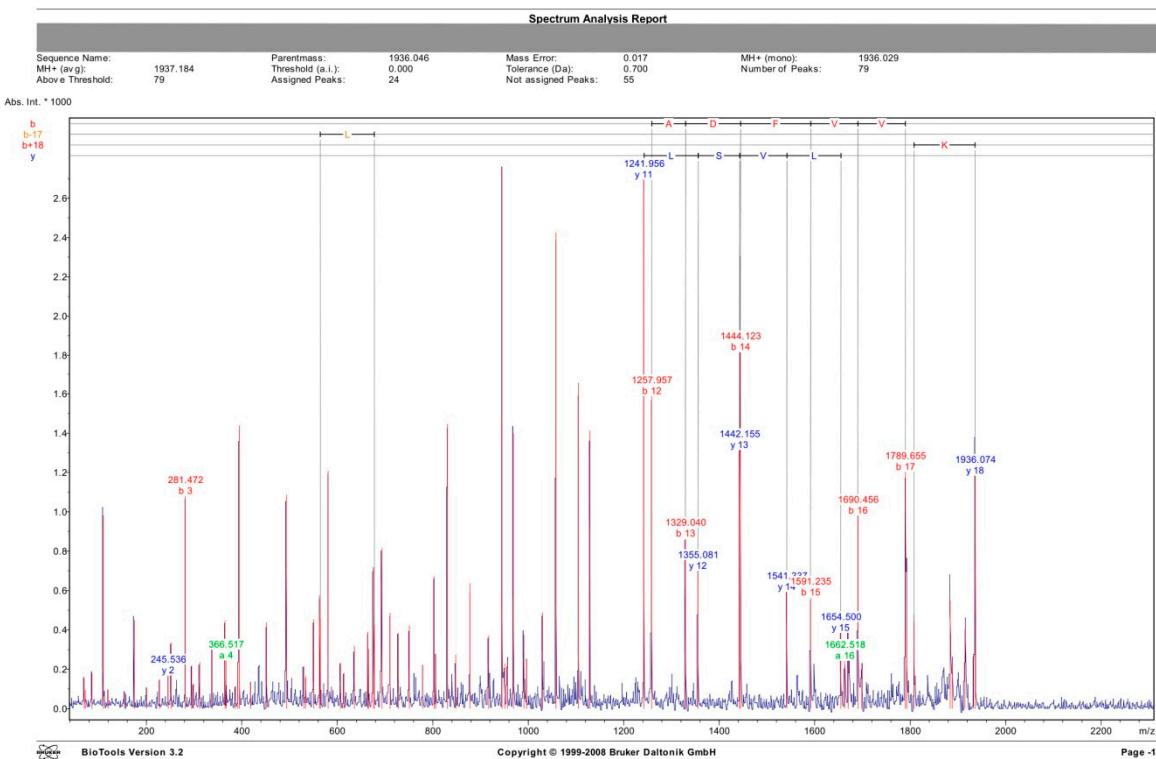


Area 8. Annotated MS/MS spectrum of ion 1427.645 m/z .

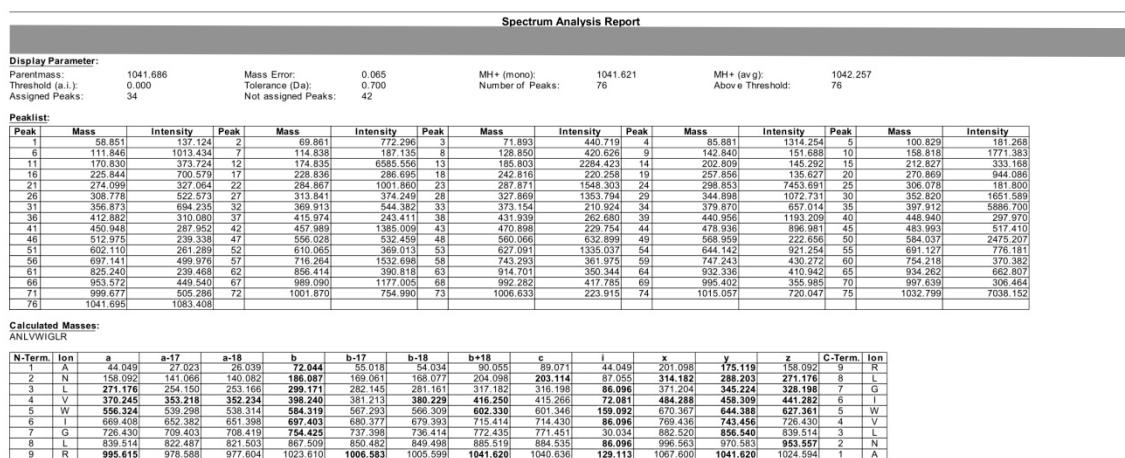
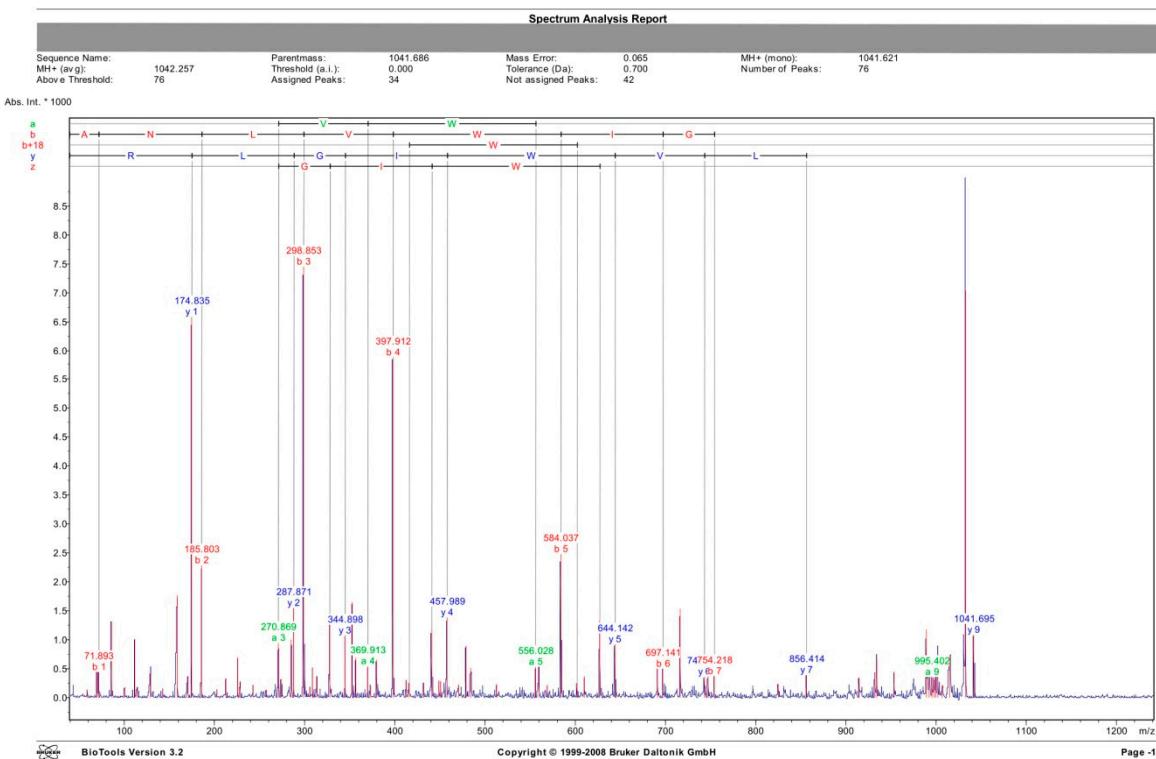
Area 8. Annotated MS/MS spectrum of ion 2161.931 m/z .



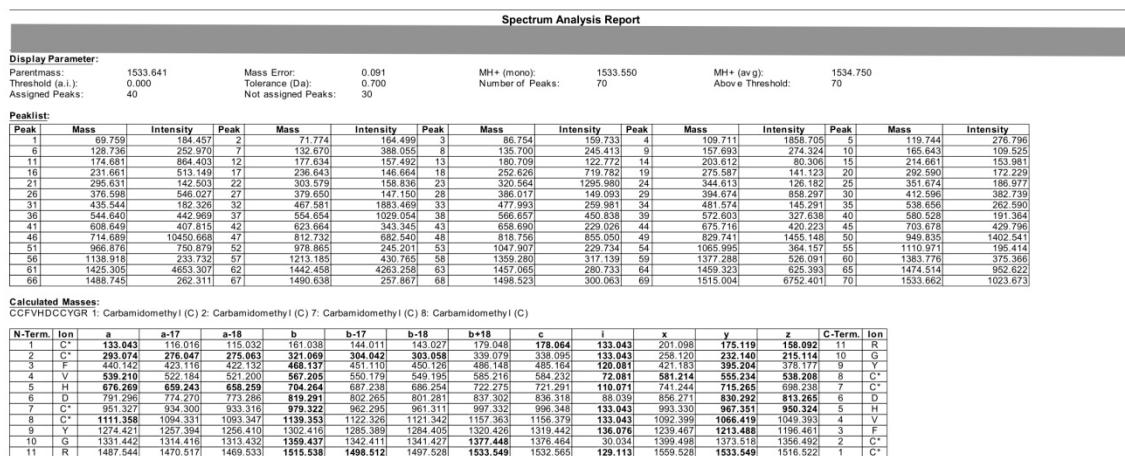
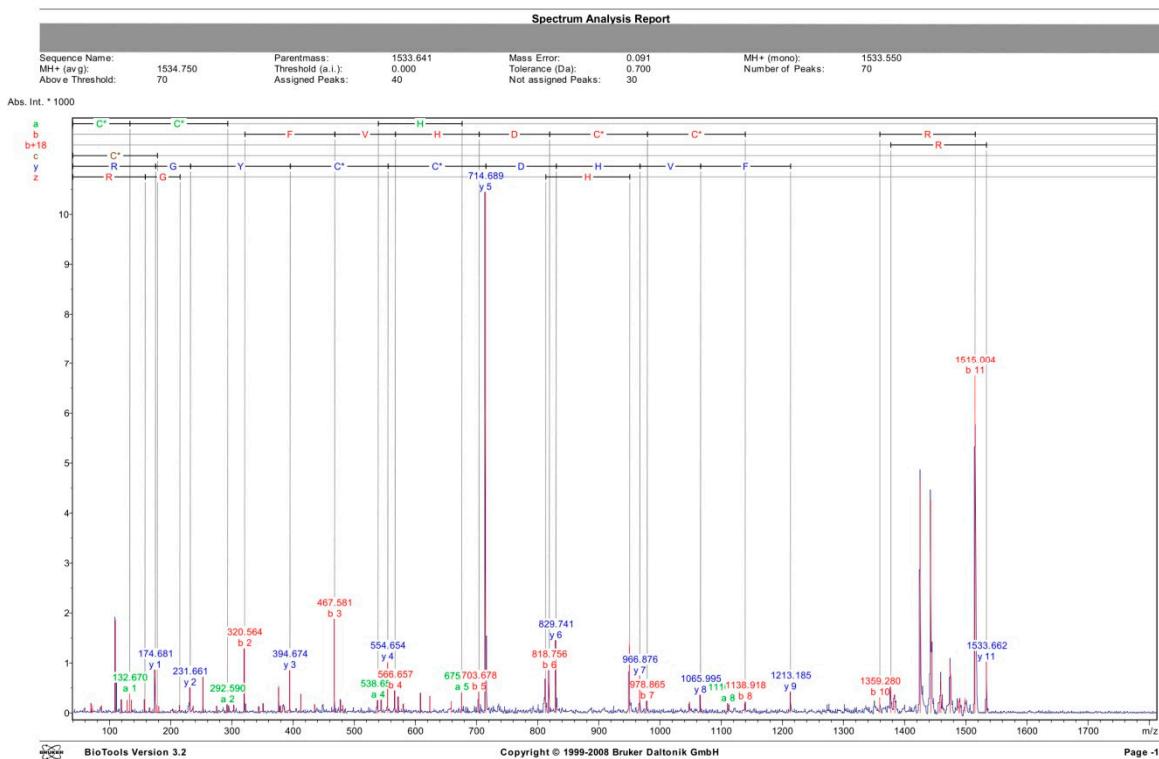
Area 8. Annotated MS/MS spectrum of ion 1936.046 m/z .



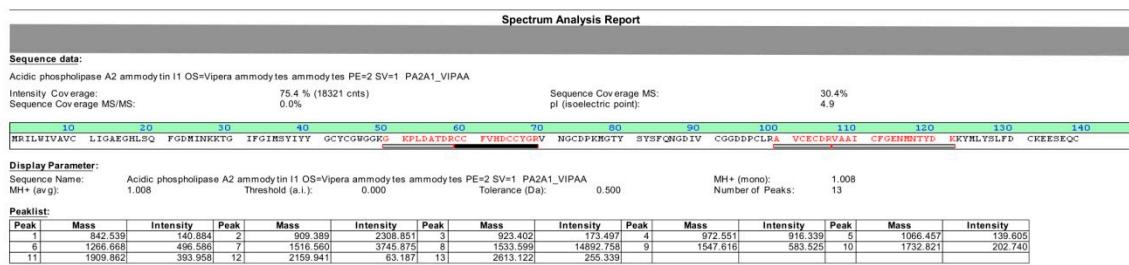
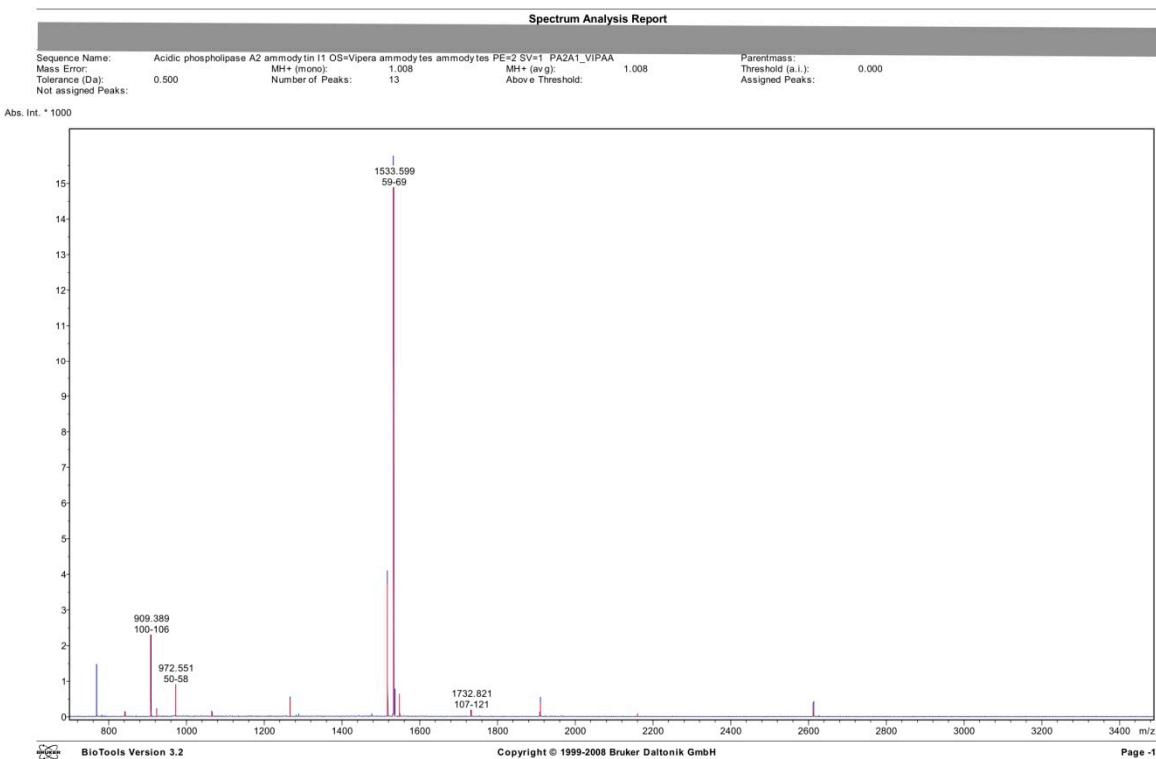
Area 8. Annotated MS/MS spectrum of ion 1041.686 m/z .



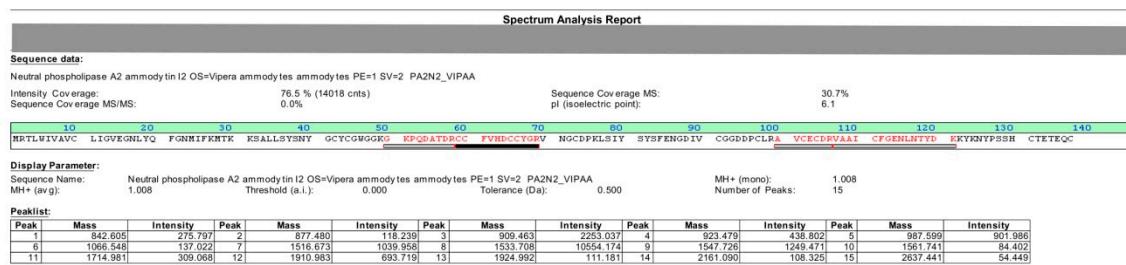
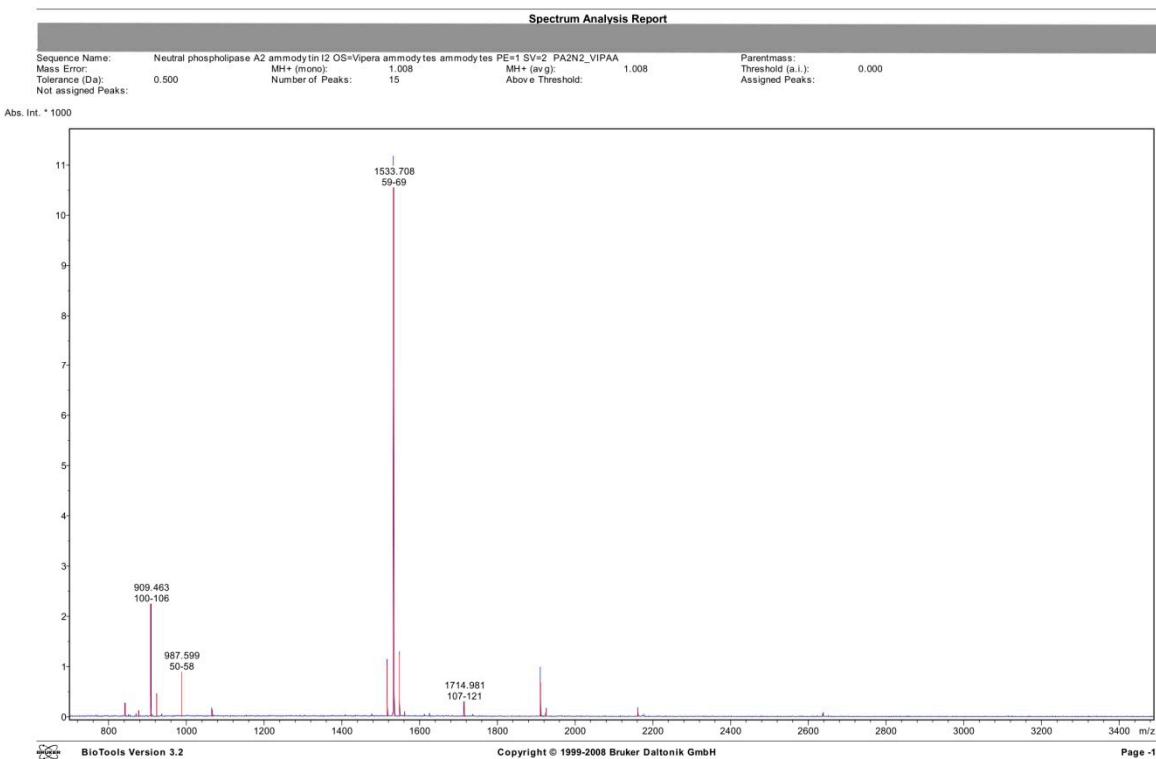
Area 9. Annotated MS/MS spectrum of ion 1533.641m/z.



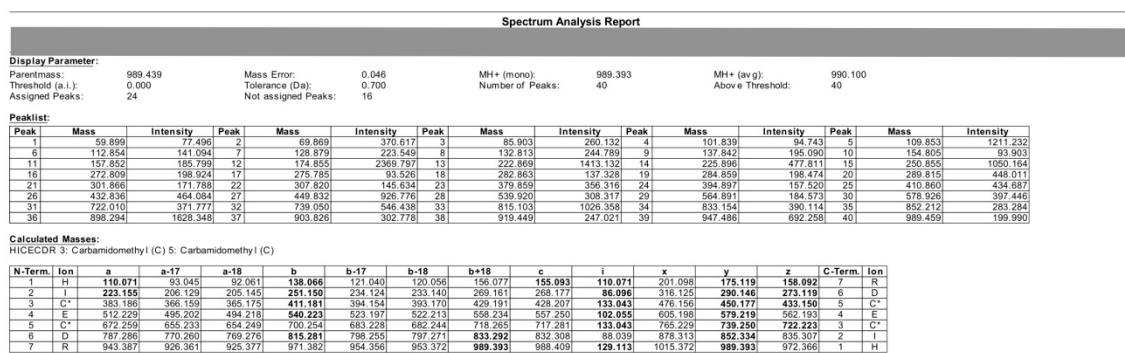
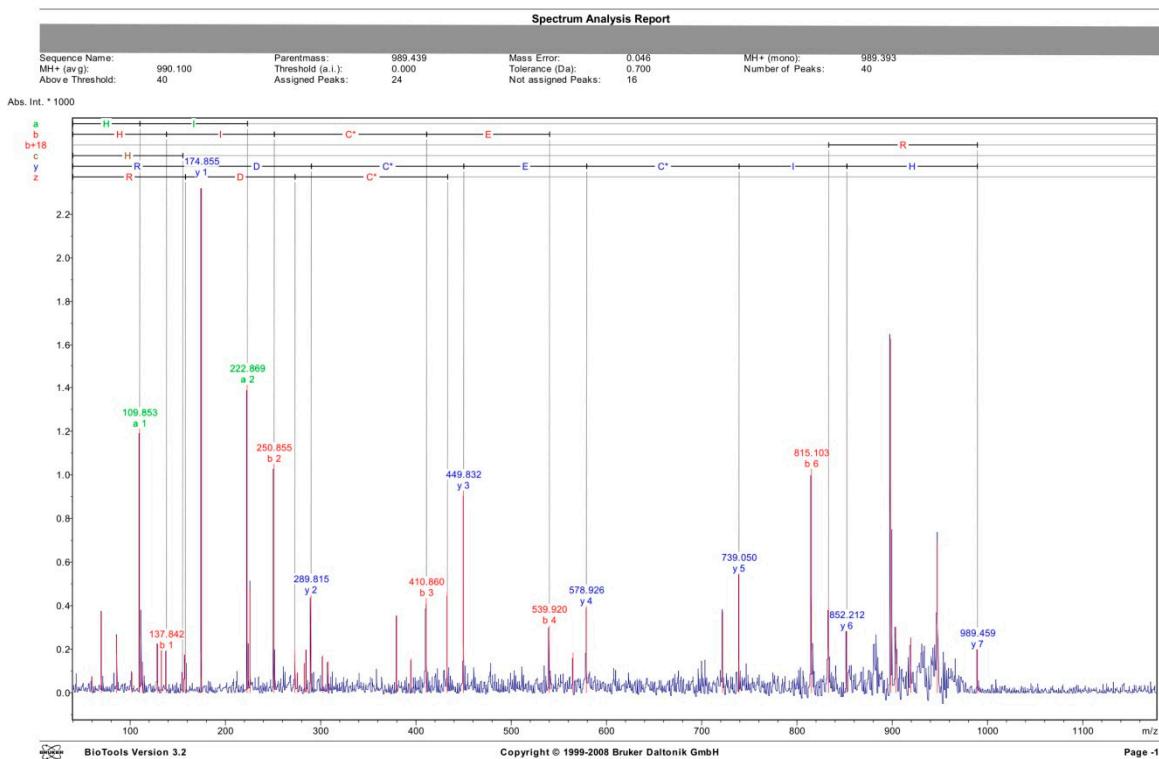
Area 9. Annotated MS spectrum.



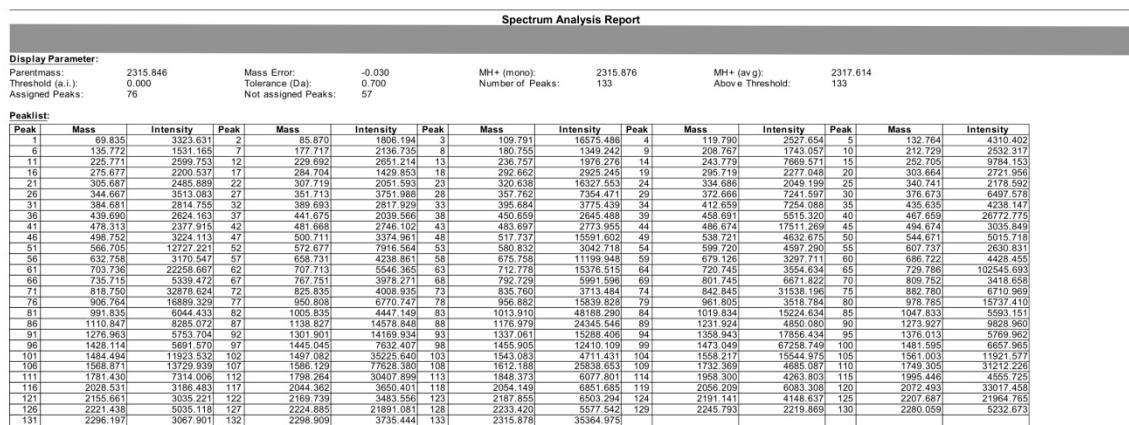
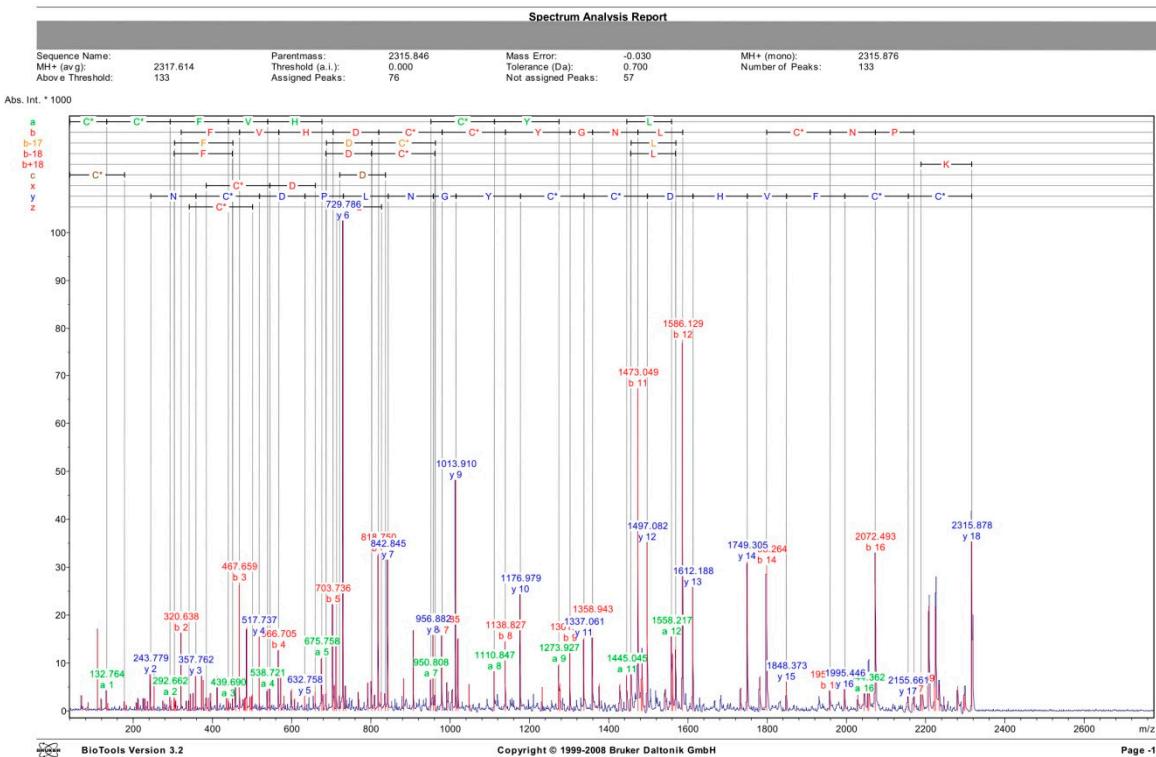
Area 10. Annotated MS spectrum.



Area 11. Annotated MS/MS spectrum of ion 989.439 m/z.



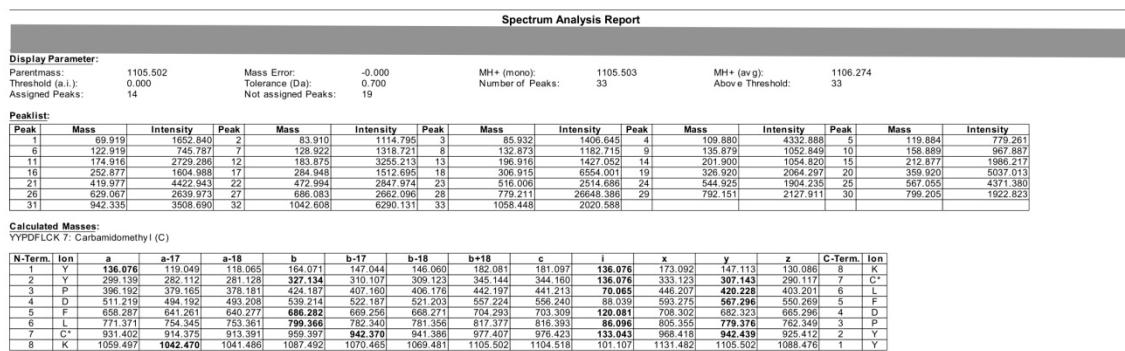
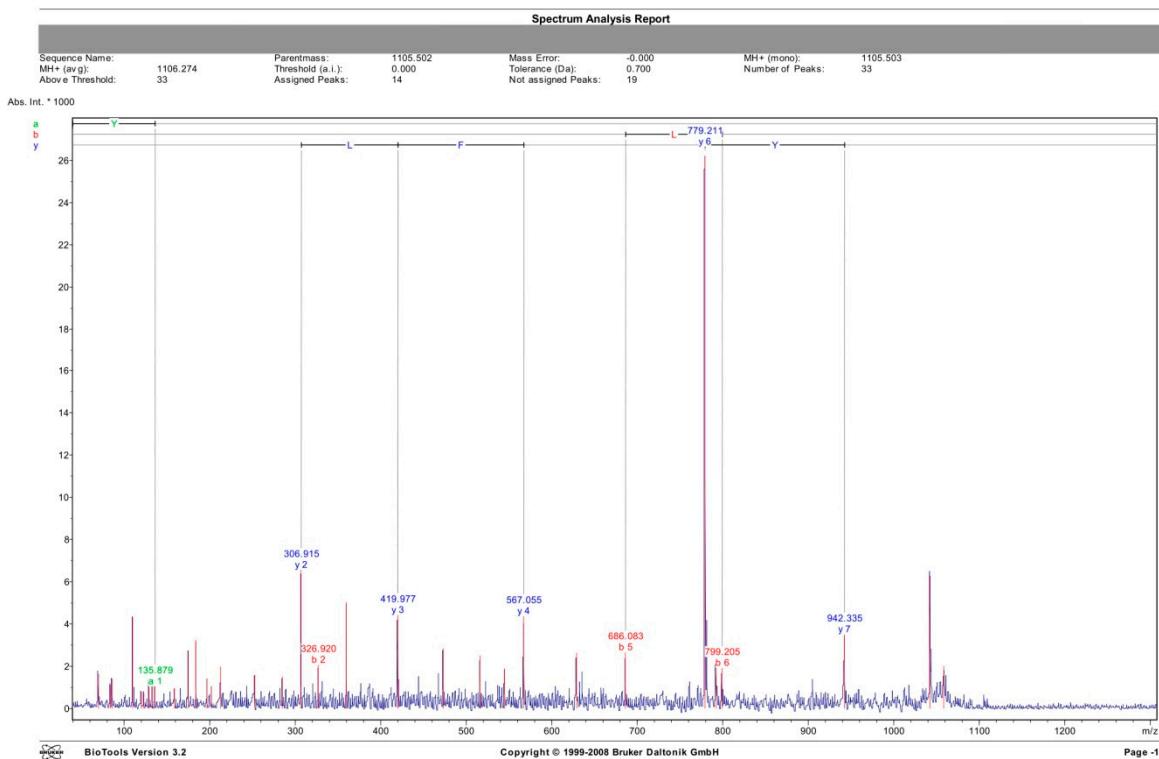
Area 11. Annotated MS/MS spectrum of ion 2315.846 *m/z*.



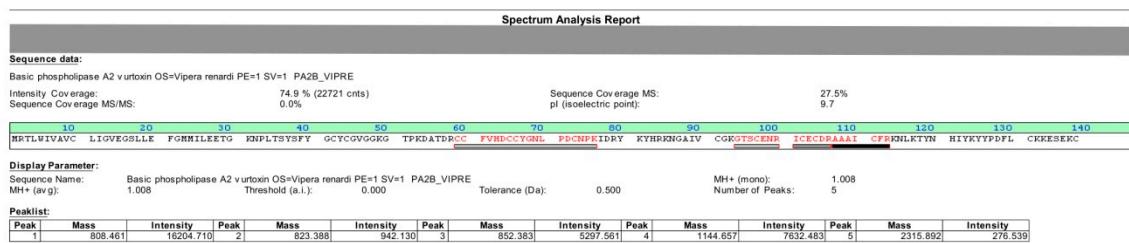
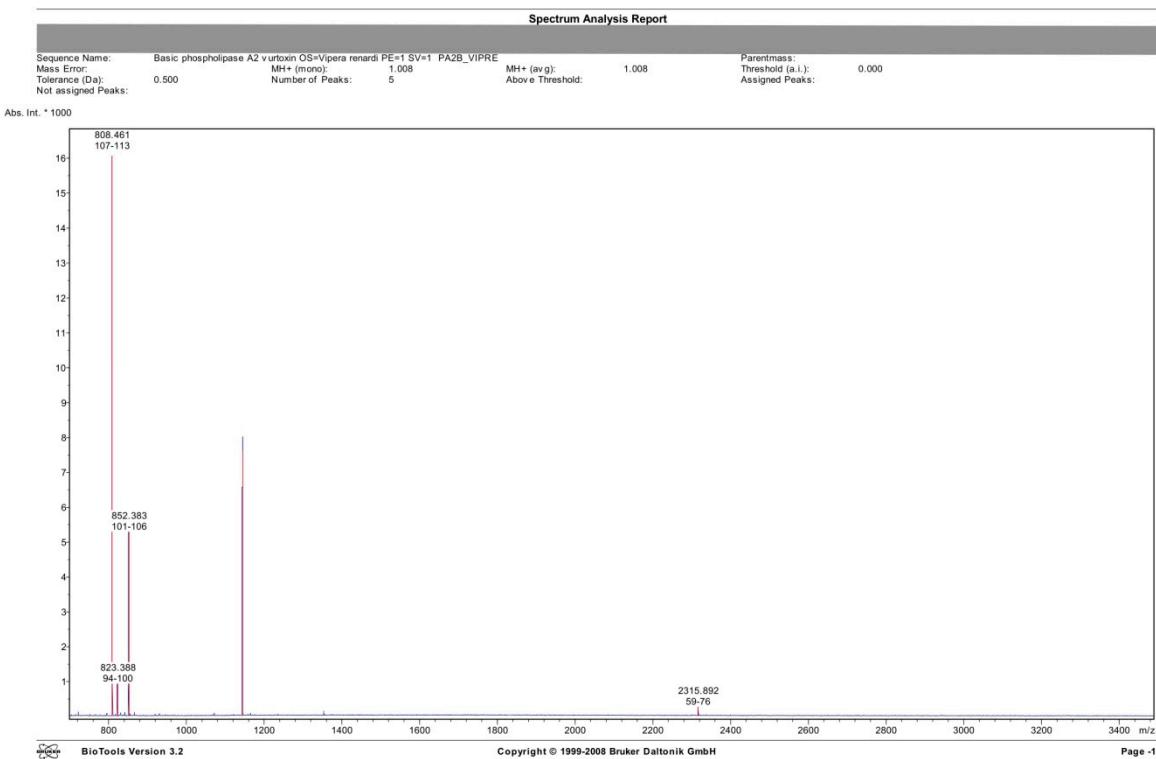
Calculated Masses: CCFVHDCCGNLPDCNPK 1: Carbamidomethyl (C) 2: Carbamidomethyl (C) 7: Carbamidomethyl (C) 8: Carbamidomethyl (C) 15: Carbamidomethyl (C)

N-Term.	Ion	c	a-17	a-18	b	b-17	b-18	b+18	c	i	x	y	z	C-Term.	Ion	
2	C ⁺	133.042	116.016	155.032	161.038	144.011	143.027	179.048	178.064	133.043	173.092	147.113	130.086	17	P	
3	F	293.074	276.047	275.063	321.069	304.042	303.058	339.079	338.095	133.043	270.145	244.166	227.139	17	P	
4	V	440.142	423.116	422.132	465.137	451.110	459.126	486.148	485.164	120.081	384.188	358.206	341.182	16	N	
5	H	679.152	659.126	658.126	704.264	658.238	657.238	658.238	657.238	711.261	654.232	72.081	544.218	519.239	15	C ⁺
6	D	791.156	774.270	774.270	821.281	801.281	801.281	801.281	837.502	836.184	795.268	795.268	795.268	640.243	14	D
7	C ⁺	951.327	934.300	933.316	979.322	962.295	961.311	997.332	996.348	133.043	869.382	843.403	826.376	12	L	
8	C ⁺	1111.158	1094.331	1093.347	139.353	1122.326	1121.342	1157.363	1156.379	133.043	983.425	957.446	940.419	11	N	
9	Y	1774.421	1527.394	1526.410	1302.416	1285.389	1284.405	1320.426	1319.442	130.076	1040.447	1014.467	997.441	10	G	
10	G	1356.148	1336.148	1335.148	1341.148	1341.148	1341.148	1341.148	1341.148	30.034	1203.148	1181.148	1161.148	9	C ⁺	
11	N	1445.465	1449.459	1472.475	1473.480	1456.454	1459.454	1461.491	1460.505	133.043	1331.148	1331.148	1331.148	9	C ⁺	
12	L	1558.569	1541.543	1540.559	1566.564	1569.538	1568.554	1604.575	1603.591	86.096	1523.571	1497.592	1480.565	7	C ⁺	
13	P	1655.622	1638.598	1637.612	1683.617	1666.591	1665.607	1701.628	1700.644	10.065	1638.598	1621.616	1595.622	6	N	
14	D	1770.049	1753.623	1752.639	1798.644	1781.617	1780.633	1816.655	1815.671	88.039	1775.657	1749.678	1732.651	5	H	
15	O	1930.624	1913.653	1912.669	1985.675	1940.624	1939.640	1976.728	1975.701	133.043	1874.655	1854.655	1831.702	4	V	
16	N	2044.723	1987.653	1986.669	2055.691	2044.675	2043.691	2080.768	2079.742	80.656	1984.655	1974.655	1955.615	3	C ⁺	
17	P	2147.175	2124.749	2123.765	2169.770	2125.744	2125.760	2187.781	2186.797	70.065	2181.825	2155.845	2138.819	2	C ⁺	
18	K	2268.970	2252.844	2251.860	2297.865	2280.830	2279.885	2315.876	2314.892	101.107	2341.855	2315.876	2298.849	1	C ⁺	

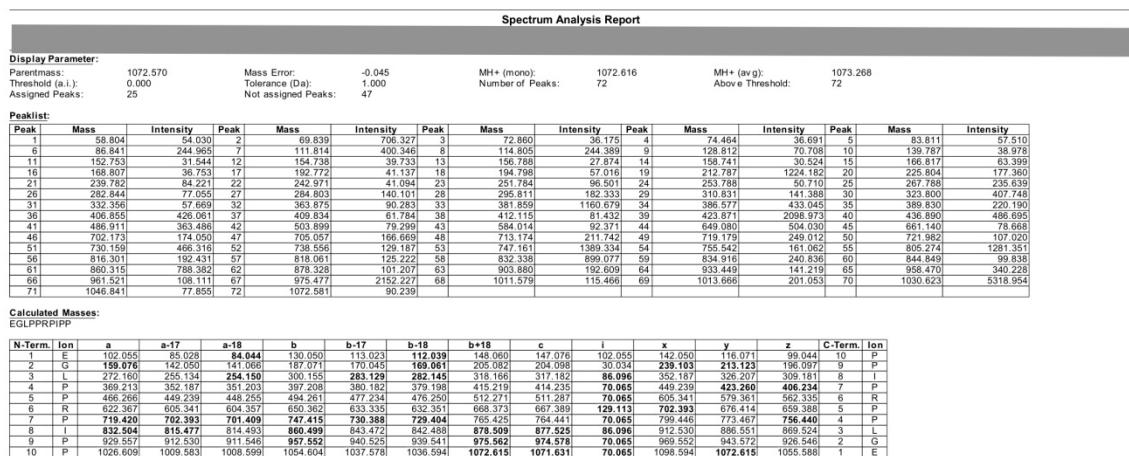
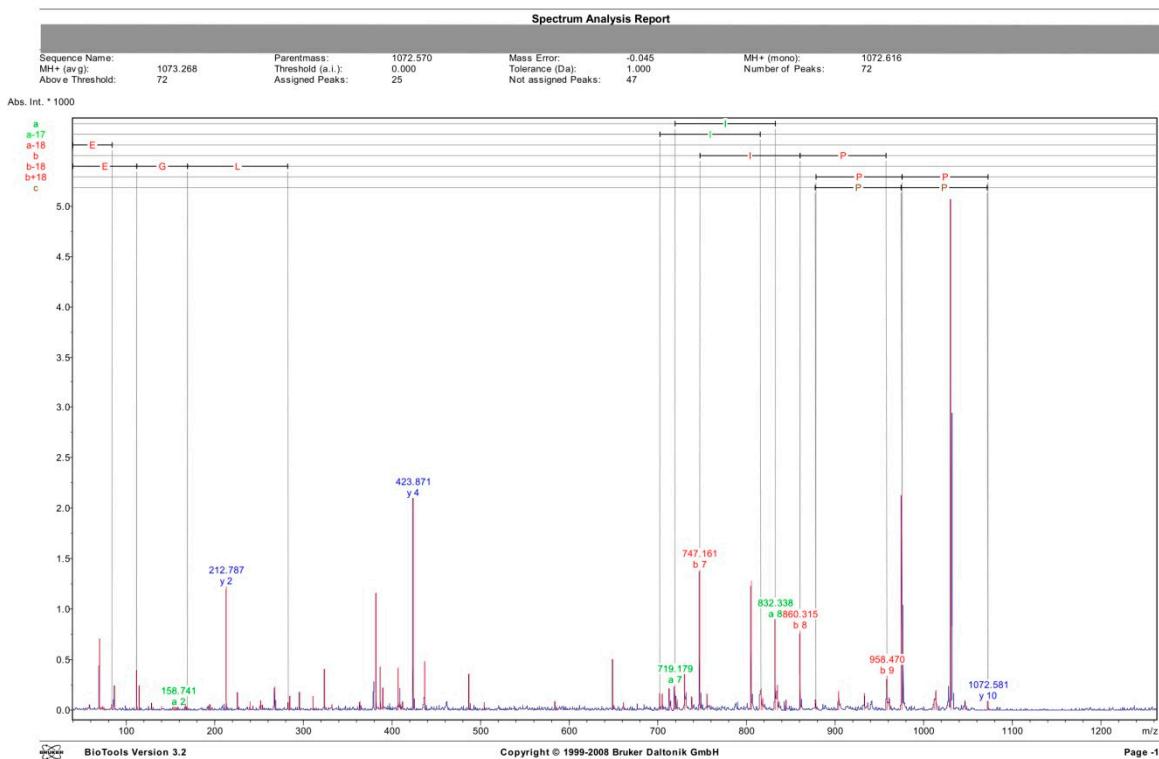
Area 11. Annotated MS/MS spectrum of ion 1105.502 m/z.



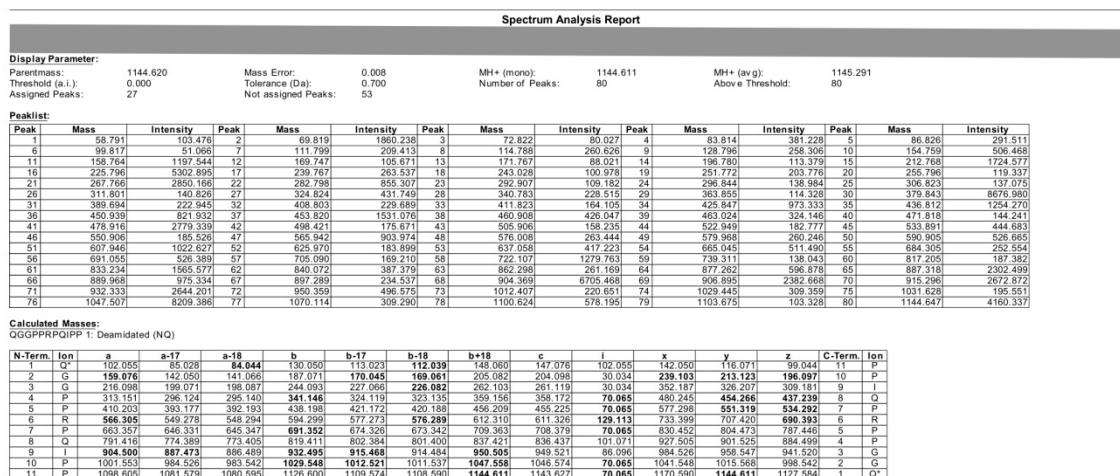
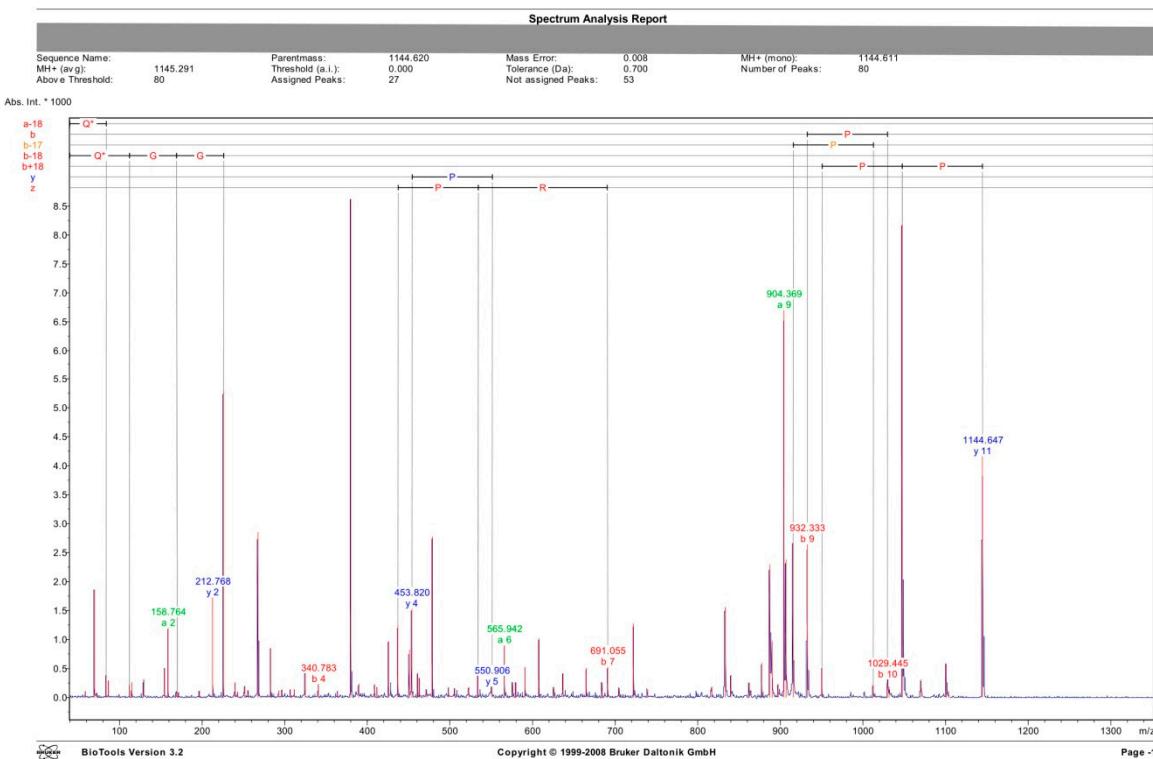
Area 11. Annotated MS spectrum 1.



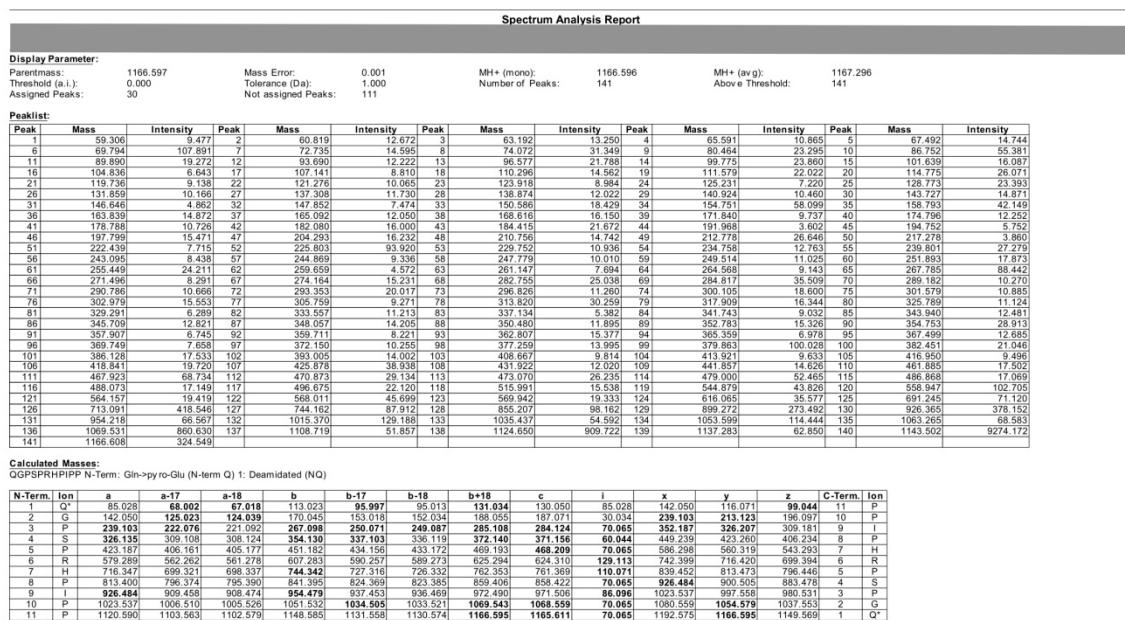
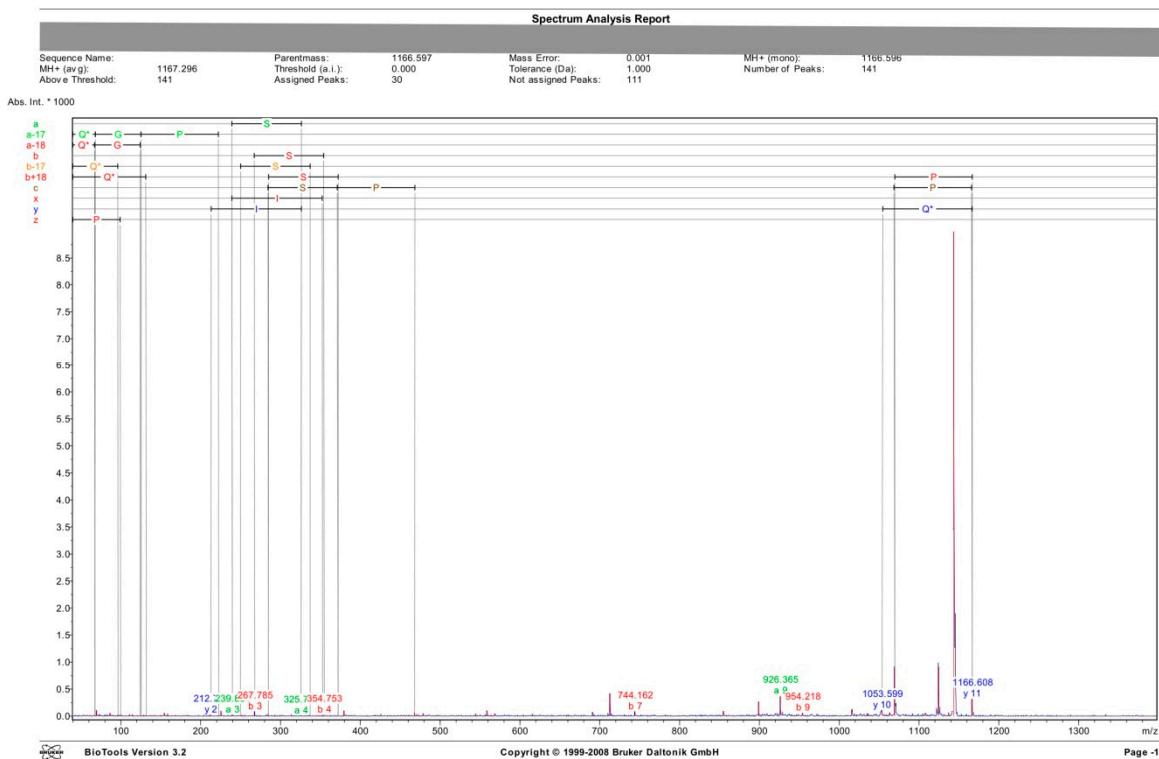
Annotated MS/MS spectrum of peptide 1072.570 m/z .



Annotated MS/MS spectrum of peptide 1144.620 m/z.



Annotated MS/MS spectrum of peptide 1166.597 m/z .



Annotated MS/MS spectrum of peptide 1182.573 m/z.

