

Supplemental Table 1. *S. pombe* strains used in this study

Strain number KLG	Genotype
246	<i>ade6-M210 ura4-D18 leu1-32 h-</i>
6303	<i>ubp9-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
6918	<i>ubp9-TAP::kanR nda3-km311 ade6-M210 ura4-D18 leu1-32 h-</i>
7027	<i>bun107-TAP::kanR ade6-M216 ura4-D18 leu1-32 h+</i>
7155	<i>uch1-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7156	<i>uch2-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7157	<i>ubp4-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7158	<i>ubp7-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7159	<i>ubp8-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7162	<i>ubp14-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7164	<i>ubp2-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7165	<i>ubp5-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7166	<i>bun62-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7422	<i>ubp9-GFP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7512	<i>ubp9-GFP::kanR bun107::ura4+ ade6-M210 ura4-D18 leu1-32 h-</i>
7513	<i>ubp9-GFP::kanR bun62::ura4+ ade6-M210 ura4-D18 leu1-32 h+</i>
7869	<i>sst2-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
7879	<i>ubp9-GFP::kanR bun107::ura4+ bun62::ura4+ ade6-M210 ura4-D18 leu1-32 h+</i>
8319	<i>rpn11-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
8321	<i>otu1-TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
8530	<i>Ubp9-TAP::kanR cdc25-22 ade6-M21x ura4-D18 leu1-32 h-</i>
9146	<i>uch1-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9147	<i>uch2-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9149	<i>ubp6-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9150	<i>ubp8-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9152	<i>ubp12-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9153	<i>ubp14-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9154	<i>ubp15-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9155	<i>rpn11-TAP::kanR nda3-km311 ade6-M21x ura4-D18 leu1-32 h-</i>
9162	<i>otu2-linker TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
9163	<i>ubp1-linker TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
9165	<i>ubp11-linker TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
9167	<i>sfp47-TAP::kanR ade6-M210 ura4-D18 leu1-32 h+</i>
9181	<i>ftp105-linker TAP::kanR ade6-M210 ura4-D18 leu1-32 h-</i>
9194	<i>ubp16-linker TAP::kanR ura4-D18 leu1-32 h-</i>
9301	<i>ubp16-linker TAP::kanR ade6-M21x ura4-D18 leu1-32 h-</i>
9303	<i>otu1-TAP::kanR ade6-M21x ura4-D18 leu1-32 h-</i>
9616	<i>ubp3-TAP::kanR ura4-D18 leu1-32 h-</i>
9617	<i>ubp6-TAP::kanR ura4-D18 leu1-32 h-</i>
9618	<i>ubp15-TAP::kanR ura4-D18 leu1-32 h-</i>
9619	<i>ubp12-TAP::kanR ura4-D18 leu1-32 h-</i>

Supplemental Table 2. Phosphorylation sites identified in DUBs and their partners

#	Protein	Sequence	Site(s)	# PO4	TSC	Precursor mass	Error (Da)	z	Obs. z	MM score	FDR	Motif	Kinase/binding motif	Refs.
1	Ubp2	LIQDLDFVDS _s PSAGWNPWSPHSSR	S25	1	5	2904.998	-0.306	3	3	51.4192	0	sP	proline-directed (WW-IV)	
2		LIQDLDFVDS _s PSAGWNPW _s PHSSR	S35	1	5	2906.078	0.774	3	2,3	43.2641	0	sP	proline-directed (WW-IV)	
3		DRIPVYEEEEELPEPHVt _s PTK	T112/S113	1	4	2707.345	0.069	2	2	36.5345	0	sPxK	proline-directed/FHA-2 pT binding motif	
4		IPVYEEEEELPEPHVt _s PTK	S113	1	20	2436.338	0.191	3	2,3	54.0142	0	sPxK	proline-directed, CDK	X ^a
5		IPVYEEEEELPEPHVt _s PTKSEFATTSTCMK	S113	1	31	3680.258	0.597	3	2,3	47.9035	0	sPxK	proline-directed, CDK	
6		IPVYEEEEELPEPHVt _s PTKSEFATTSTCMK	T112	1	20	3695.648	0.014	3	3	38.8058	0.0083			
7		TTKsEIEVEWR	S135	1	8	1456.865	0.171	2	2	36.7233	0	s[DE]xE	CKII-like	
8		SSSHQGS _s SH _s SQPSLFTTFTSLELFLR	S179	1	4	3046.778	-0.658	3	3	46.1419	0	Sxx[st]	CKI	
9		SGT _s SVM _s DLSSSR	S722	1	12	1392.805	0.212	2	2	41.3826	0	Sxx[st]	CKI	X ^b
10		SGT _s SVM _s DLSSSR	T721/S722/S723	2	2	1473.525	0.932	2	2	34.3478	0	Sxx[st]	CKI/FHA-1 pT binding motif	X ^a
11		SGTSSVM _s DL _s SSREL _s SNLNER	S728/S729/S730	1	30	2349.248	1.183	3	3	73.322	0			X ^b
12		sGT _s SVM _s DL _s S _s REL _s SNLNER	S719/S722, S728/S730	2	8	2428.898	-0.833	3	3	54.1979	0			
13		SSSVHPSSVLT _s YLALPLTL _s DQV _s KT _s SVM _s DLSSSR	S719, S722	2	2	4023.548	1.545	3	3	49.2489	0			
14		NMGVSEs _s DAKDSL _s ER	S19	1	3	1717.405	0.669	2	2	38.7696	0			
15	Ucp6	GLLFAEDNASFHRPFTDVSAHL _s SSsLsK	S43/S44/S45/S46/S48	1	7	3200.438	-0.9069	3	3	56.7936	0	Sxx[st]	CKI	
16		GLLFAEDNASFHRPFTDVSAHL _s SSsLsK	S43/S44/S45/S46/S48	2	2	3279.458	-0.073	3	3	43.9223	0	Sxx[st]	CKI	
17		PFTDVSAHLSSsLsK	S46	1	4	1742.465	0.639	2	2,3	44.2873	0	Sxx[st]	CKI	
18		LVPIMs _s tsIASSLPSyQDTFFLSPR	S54/S55/T56/S57/Y65	1	19	3021.908	1.414	3	3	59.5881	0	Sxx[st]	CKI	
19		LVPIMs _s tsIASSLPSyQDTFFLSPR	S54/S55/T56/S57/Y65	2	5	3101.708	-1.0938	3	3	36.9507	0	Sxx[st]	CKI	
20		NVsPSANHNEQWYLVR	S463	1	3	1994.198	1.28	3	3	53.939	0	sP	proline-directed (WW-IV)	
21		NFIAEDNEYFDDEL _s LAGIIHsPtVSTR	S555/T557	1	31	3031.928	-0.45	3	2,3	54.6439	0	sP	proline-directed	
22		NFIAEDNEYFDDEL _s LAGIIHsPtVSTR	S555/T557, S559	2	4	3113.198	0.82	3	2,3	51.0956	0	sP	proline-directed	
23		SRNsACEFPESMHVEHSG	S598	1	45	2139.368	-0.472	3	2,3	51.684	0	Sxx[st]/s[DE]xE	CKI/CKII	
24	Ubp3	HVQGD _s PVKK	S89	1	2	1174.146	0.558	2	2	29.9021	0.004	sPxK	proline-directed (WW-IV)	
25		SGLDSFD _s DQ _s VEASGWTEVGK	S281/S282	1	3	2379.585	-0.423	2	2	34.5079	0			
26	Nxt3	FLREDVEEEEE _s PDAVEK	S145	1	9	2229.788	0.818	3	2,3	48.3523	0	sP	proline-directed (WW-IV)	
27		FLREDVEEEEE _s PDAVEKEK	S145	1	2	2486.828	0.721	3	3	44.3425	0	sP	proline-directed (WW-IV)	
28		DVASEPYVNGVQ _s QEHLPSAK	S167	1	6	2334.985	-0.899	2	2	30.8829	0.008			
29		KDVASEPYVNGVQ _s QEHLPSAK	S167	1	5	2463.248	1.066	3	3	69.7662	0			
30		SQASVSS _s TAsTTGQT _s VK	S285	1	3	1719.445	0.639	2	2	61.0853	0	Sxx[st]	CKI	
31	Ubp4	sPIAPLTEDQLSAR	S343	1	5	1577.588	0.805	3	3	41.5432	0	sP	proline-directed	X ^a
32	Sfp47	GVVLSVD _s TVT _s PISQSPK	S221	1	17	1894.118	1.135	3	2,3	54.5591	0	sP	proline-directed	

#	Protein	Sequence	Site(s)	# PO4	TSC	Precursor mass	Error (Da)	z	Obs. z	MM score	FDR	Motif	Kinase/binding motif	Refs.	
33	Sfp47	KLtPtSPINSTLSFVDAK	T231, T233	2	2	2266.838	0.717	3	3	48.7993	0	tP/tPxxS	proline-directed (WW-IV)/SCF-FBW7 ligand		
34	Ubp5	MVtGETLVDSQK	T3	1	6	1387.266	0.622	2	2	29.7481	0				
35		MVTGETLVDSQK	S10	1	2	1387.165	0.521	2	2	39.2365	0	[st]xxx[ST]/[st]Q	GSK3/PIKK		
36		MVTGETLVDSQKSLINNDTLLNEK	S10	1	15	2742.128	0.775	3	3	67.8174	0	[st]xxx[ST]/[st]Q	GSK3/PIKK		
37		SLINNDtLLNEK	T19	1	6	1453.766	-0.146	2	2	44.0488	0				
38		CFYNLQFMNEPVstTELTK	S274/T275	1	5	2401.725	0.662	2	2,3	39.0904	0	[st]xx[ILV]	FHA-1 pT binding motif		
39		EALNPsIQLAELR	S554	1	3	1533.485	0.691	2	2	46.4072	0				
40		VEsPVNELNSTMEEVK	S648	1	2	1900.525	0.669	2	2	38.0984	0	sP	proline-directed		
41		tFtQSELSTGDIICFPCRPSELEDDIVNSGFDSALK	T763/T765	1	4	4200.158	1.264	3	3	77.8765	0				
42		NLPKENSsELDLNFQDDLDfENSISQK	S136	1	12	3218.078	-0.385	3	3	77.5521	0	s[DE]xE	CKII-like		
43	ENSsELDLNFQDDLDfENSISQK	S136	1	12	2766.765	0.577	2	2,3	65.4099	0	s[DE]xE	CKII-like			
44	ENSELDLNFQDDLDfENSsISQKNEFSQK	S152	1	2	3500.498	0.97	3	3	46.5063	0	[DE]x[ST] [ILFWMVA]	Polo kinase			
45	SPSVPLsPVSTFPASSISLDASSDVSAADVSVGGSSTIK	S169	1	2	3786.638	0.791	3	3	40.86	0	sP	proline-directed			
46	LNLsPGAaiENQYR	S374	1	3	1625.525	0.73	2	2	34.1734	0	sP	proline-directed (WW-IV)			
47	SQPLVALNSEGsDFESK	S652/S653	1	8	1974.165	0.269	2	2	71.9983	0	sxxFxK	BRCT-BRCA binding motif			
48	SQPLVALNsEGsDFESK	S649, S652	2	4	2054.465	0.569	2	2	60.3211	0	sxxFxK	BRCT-BRCA binding motif			
49	SSDNTsLDGTPLQNTDFK	S664	1	5	2018.745	-0.136	2	2,3	40.3521	0	Sxx[st]	CKI			
50	SSDNTsLDGTPLQNTDFK	S664	1	16	2148.458	1.482	3	2,3	44.2583	0	Sxx[st]	CKI			
51	Ftp105	KVAtVEDDSPFDELdk	T680	1	4	1886.825	-0.027	2	2	50.7673	0	txxE	FHA-2 pT binding motif		
52		VAtVEDDSPFDELdkFSSPFSSSSSR	T680	1	5	2915.465	-0.193	2	2,3	33.061	0	txxE	FHA-2 pT binding motif		
53		VATVEDDSPFDELdkFsPFSSSSSR	S695	1	1	2916.008	0.736	3	2	48.2794	0	sP	proline-directed		
54		VATVEDDSPFDELdkFsPFSSSSSR	S694	1	6	2915.706	0.434	2	2	33.4668	0				
55		VATVEDDSPFDELdkFSSPFSSSSSR	S698/S699/S700/S701/S702	1	10	2915.946	0.674	2	2	41.2093	0	Sxx[st]	CKI		
56		NVslsVPTVLQDVFSDSLVLRSR	S715/S717	1	16	2551.686	0.359	2	2	55.888	0				
57		GKIPENVsssELIK	S746/S747/S748	1	13	1579.865	0.045	2	2	36.4596	0				
58		GKIPENVsssELIKK	S746/S747/S748	1	1	1708.625	0.711	2	2	33.9483	0				
59		IPENVsSSELIK	S746	1	4	1394.985	0.282	2	2	31.7685	0				
60		IPENVsSSELIKK	S746	1	3	1523.325	-0.527	2	2	29.7102	0.0054				
61		VASPENSSsMENATK	S893	1	4	1745.325	0.594	2	2,3	41.3906	0	Sxx[st]	CKI		
62		Ubp6	AIPELSDAVsQFNSSGGLVAEYR	S129	1	6	2489.345	0.164	2	2,3	45.1165	0	[st]Q	PIKK	
63			AIPELSDAVsQFNsSGGLVAEYR	S133	1	2	2489.906	0.725	2	2	59.3718	0	[st]xxx[ST]	GSK3	
64			TLLNSMQSNAPVtPMR	T143	1	25	1839.385	0.509	2	2,3	45.8935	0	tP	proline-directed	
65	IQPsEDEKEAEAECR		S359	1	7	1870.365	0.594	2	2,3	32.5667	0	s[DE]xE	CKII-like		

#	Protein	Sequence	Site(s)	# PO4	TSC	Precursor mass	Error (Da)	z	Obs. z	MM score	FDR	Motif	Kinase/binding motif	Refs.
66	Ubp7	sLQLsPCLTDDEQLSK	S333, S337	2	20	1993.165	0.29	2	2	47.197	0	sP	proline-directed (WW-IV)	X ^a
67		sLQLsPCLTDDEQLSK	S333	1	1	1913.285	0.41	2	2	45.2128	0	[st]xxx[ST]	GSK3	
68		SLQLsPCLiDDEQLSK	S337, T341	1	7	1993.405	0.53	2	2	47.5859	0	sP	proline-directed (WW-IV)	X ^{ab}
69		SLQLsPCLTDDEQLSK	S337	1	94	1913.185	0.31	2	2	38.948	0	sP	proline-directed (WW-IV)	
70		SLQLsPCLiDDEQLSK	T341	1	9	1913.465	0.59	2	2	56.5592	0			
71		ELsQSSDSSQHqHDSFLPANsPLAASSTK	S420	1	17	3223.268	0.824	3	2,3	61.5852	0	sP	proline-directed (WW-IV)	X ^b
72		ELsQSSDssQHqHDSFLPANSSPLAASSTK	S401/S406/S407	2	2	3303.278	0.834	3	2,3	31.5933	0.0064	Sxx[st]	CKI	
73		SLPSSELLDSsDKGQQVFK	S439/S440	1	21	2231.545	0.475	2	2	50.8316	0.002			
74		RsLDILR	S493	1	2	951.585	0.061	2	2	35.3742	0			X ^a
75		LGELsSDDMMLDK	S503	1	3	1533.125	0.477	2	2	36.4709	0			
76		RLsDLsVNSSGQISK	S648, S651	2	1	1750.125	0.288	2	2	32.8255	0	Sxx[st]	CKI	
77		RLsDLSVNssSGQISK	S648, S654	2	10	1750.266	0.429	2	2	41.5824	0	Sxx[st]	CKI	
78		RLsDLSVNSSGQISK	S648	1	11	1670.565	0.728	2	2	39.4339	0			
79		RLSDLSVNssSGQISK	S654	1	2	1670.465	0.628	2	2	40.8827	0	Sxx[st]	CKI	
80		LSDLSVNssSGQISK	S654	1	2	1514.445	0.709	2	2	36.7344	0	Sxx[st]	CKI	
81	GGLTSDNDKysFNNSVYR	Y722/S723	1	3	2116.446	0.522	2	2	47.5216	0				
82	Ubp9	WMGMNsPGSTDR	S11	1	47	1417.745	0.196	2	2	38.3581	0.0038	sP	proline-directed	X ^a
83		KSsLYGSNGINSCGCVDISNVGSESGTK	S110	1	12	2956.598	0.321	3	3	65.5451	0			
84		ESIKPMSIPsQLKQESVEVSNLSStPR	T462	1	3	3067.178	0.645	3	3	42.9948	0	tP	proline-directed	
85		QESVEVSNLSStPR	T462	1	12	1611.725	-0.023	2	2,3	46.2688	0	tP	proline-directed	
86		SYFDREPsLDAER	S505	1	5	1664.168	0.446	3	3	44.0801	0	[KR]xxs	PKA/PKC	X ^a
87		SKFFGSSQSNsPK	S550	1	6	1479.965	0.292	2	2	40.5044	0	sPK	Histone H1 kinase	
88		FFGSSQSNsPK	S550	1	9	1264.485	-0.061	2	2	32.9137	0.0021	sPK	Histone H1 kinase	X ^a
89		FFGSSQSNsPKDsPLR	S550	1	2	1833.345	0.502	2	2	34.5135	0.0013	sPK	Histone H1 kinase	X ^a
90		FFGSSQsNsPKDsPLR	S548, S550	2	2	1913.618	0.775	3	2,3	41.3943	0	Sxx[st]/sPK	CKI/Histone H1 kinase	
91		FFGSSQsNSPKDsPLRDTHK	S548, S554	2	1	2394.998	0.926	3	3	39.1385	0	Sxx[st]/sP	CKI/proline-directed	
92		FFGSSQSNsPKDsPLRDTHK	S550, S554	2	1	2394.278	0.206	3	3	46.4129	0	sPK, sP	Histone H1 kinase/proline-directed	
93		Bun107	KGNVNMPSALsPLR	S568	1	9	1562.805	-0.008	2	2	35.5641	0	sP	proline-directed (WW-IV)
94	GNVNMPSALsPLR		S568	1	45	1434.525	-0.178	2	2	53.2642	0	sP	proline-directed (WW-IV)	
95	NRKPHTEVVGSPTVVR		S655	1	3	1855.598	0.618	3	2,3	41.7664	0	sP	proline-directed	X ^a
96	KPHTEVVGSPTVVR		S655	1	2	1585.105	0.269	2	2	33.6854	0.0028	sP	proline-directed	
97	VFstGTsvTSPQALS		S710	1	15	1688.885	0.049	2	2	35.5883	0			
98	VFTGTsvTSPQALS		S717	1	73	1688.805	0.03	2	2	34.6703	0	sP	proline-directed	X ^a
99	SKsSKsLQTDFMK		S790, S793	2	8	1645.945	0.195	2	2	35.4553	0			
100	SSKsLQTDFMK		S793	1	1	1366.845	16.222	2	2	29.5159	0	Sxx[st]	CKI	
101	SVsEIVDKTQSLNI		S951	1	3	1612.266	0.457	2	2	36.9104	0			
102	SVSEIVDKTQsLNI		S959	1	1	1611.766	-0.043	2	2	36.955	0	[KR]xxs	PKA/PKC	
103	Bun62	StPQITGSLPDNTPVK	T37	1	1	1831.305	0.395	2	2	30.965	0.0055	tP	proline-directed (WW-IV)/FHA-1 pT binding motif	

#	Protein	Sequence	Site(s)	# PO4	TSC	Precursor mass	Error (Da)	z	Obs. z	MM score	FDR	Motif	Kinase/binding motif	Refs.
104	Bun62	STPQITGsPLDPNTPVK	S43	1	16	1831.725	0.815	2	2	30.3142	0.0088	sP	proline-directed (WW-IV)	
105		SHNFSSSNtPYLK	T116	1	3	1560.425	-0.27	2	2	44.3447	0	tP	proline-directed/FHA-1 pT binding motif	
106	Ubp12	sLsEEsQssNMDDISQK	S19/S21/ S24/S26/ S27	2	6	2132.078	1.24	3	3	49.0096	0	Sxx[st]/ sxxE	CKI/CKII-like	
107		sLSEESQSSSNMDDISQK	S19	1	5	2052.278	1.44	3	3	66.8216	0	s[DE]xE	CKII-like	X ^a
108		SLSEESQSSSNMDDISQKsISLGDASEISK	S37	1	11	3239.888	1.447	3	3	41.6835	0	Sxx[st]	CKI	
109		sISLGDASEISK	S37	1	17	1285.225	-0.389	2	2	31.2884	0	Sxx[st]	CKI	X ^{ab}
110		SISLGDASEISK	S39	1	9	1285.805	0.191	2	2	33.6944	0	[KR]xxs	PKA/PKC	X ^a
111		IPTGWNMsVSNLPLLTER	S708	1	5	2106.946	-0.105	2	2	51.2939	0			
112		DLEsTVDPDLDAHsIEEEDDSEFK	S725	1	13	2699.565	0.43	2	2	38.4617	0			X ^b
113		DLESTVDPLDAHsIEEEDDSEFK	S734	1	21	2699.646	0.511	2	2	62.3641	0			
114		DLEstVDPLDAHsIEEEDDSEFK	S725/T726, S734	2	5	2779.666	0.531	2	2	46.6045	0			
115		DLEsTVDPDLDAHsIEEEDDSEFKDVAPGSYPEPSK	S725	1	14	3927.848	1.136	3	3	63.3675	0			
116		DLESTVDPLDAHsIEEEDDSEFKDVAPGSYPEPSK	S734	1	23	3926.378	-0.334	3	3	51.9836	0			
117	TILSDKKDdsEDSR	S819	1	4	1688.365	0.601	2	2	38.7734	0	[KR]xxs	PKA/PKC	X ^b	
118	Ubp14	YssFSSQGLTLTVPR	S453/S454	1	19	1722.465	0.629	2	2	33.4542	0	Sxx[st]/Rx[st]/ RxRxx[st]	CKI/PKA/PKB	
119	Ubp15	IPTDNDSDSRsVAYALQR	S271	1	2	2115.625	0.664	2	2,3	42.1824	0	Sxx[st]	CKI	
120		LDHILsPVTAEDVPFHVR	S553	1	3	2124.646	0.572	2	2,3	31.7945	0.006	sP	proline-directed (WW-IV)	
121		YHGFDMtDFSASDDDPVLITTK	T608	1	13	2555.078	0.983	3	2,3	49.5536	0			
122	Sst2	SSSDLPQFDYPsLNssPtfNsNLPISRR	S186/S189/S1 90/T192/S195	1	7	3225.128	1.66	3	2,3	32.883	0			
123		FEKtsLSDSK	S208	1	2	1221.125	0.559	2	2	33.4746	0			
124	LVsPEPLDDNKDIQFIK	S216	1	3	2050.605	0.569	2	2	35.0474	0.002	sP	proline-directed		
125	Rpn11	VQNEVTLSPEQLR	S265	1	7	1592.525	0.731	2	2,3	49.0355	0	sP	proline-directed	X ^{ab}
126	Rpn1	DISSKsPSGNDALNDK	S10	1	8	1727.405	0.63	2	2	41.2491	0	sP	proline-directed	X ^a
127		DISSKsPSGNDALNDKk	S10	1	6	1855.628	0.758	3	2,3	40.3369	0.004	sP	proline-directed	X ^a
128		DISSKsPSGNDALNDKkGTK	S10	1	2	2141.978	0.944	3	3	51.0394	0	sP	proline-directed	
129	Rpn2	TTEEKEAtPMEMDEEK	T856	1	3	1977.305	0.508	2	3	45.0112	0	tP	proline-directed	
130		DAVPASADTEPGEQEAsPPEDFEYPFDDDD	S952	1	3	3335.258	0.973	3	3	54.8409	0	sP	proline-directed	
131	Rpn1301	DQLLDPARsDVATVSDMMVEVDTVQEPIAQPTSSK	S122	1	4	4213.988	1.094	3	3	60.2375	0			

Key:

TSC = total spectral counts

#PO4 = number of phosphate groups

MM score = Myrimatch Score

z = charge of specific spectrum

Obs. z = observed charge states for modified sequence

FDR = false discovery rate for sequence

Refs. = site identified in previous study as indicated

Kinase/binding motif as defined by ELM (<http://elm.eu.org/links.html>)

Footnotes:

a = Wilson-Grady et al.(2008) J Proteome Res, 7 (3), 1088-97.

b = Beltrao et al. (2009) PLoS Biol, 7 (6), e1000134.

Supplemental Figure 1. Representative spectra and observed fragment ion tables for all modified peptides listed in Supplemental Table II.

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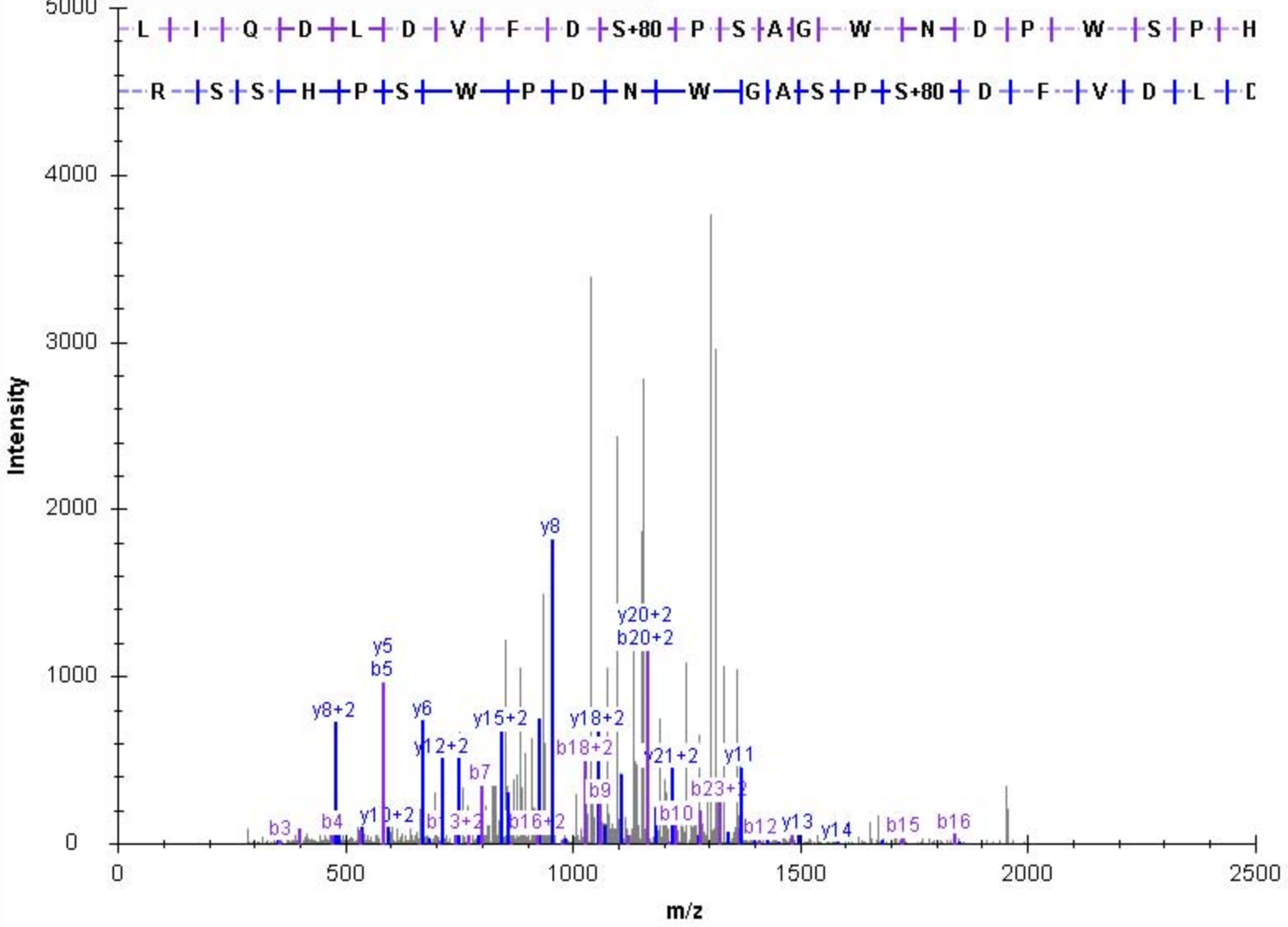
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4	Ubp2	14301	LIQDLDFVFDsPSAGWNDPWPSPHSSR	S25	1	3	2904.998	-0.306
6	Ubp2	14450	LIQDLDFVFDSPSAGWNDPWsPHSSR	S35	1	3	2906.078	0.774
8	Ubp2	11504	DRIPVYEEEEELPEPHVtSPTK	T112/S113	1	2	2707.345	0.069
10	Ubp2	11634	IPVYEEEEELPEPHVTsPTK	S113	1	3	2436.338	0.191
12	Ubp2	14706	IPVYEEEEELPEPHVTsPTKSEFATTSTCMK	S113	1	3	3680.258	0.597
14	Ubp2	11490	IPVYEEEEELPEPHVtSPTKSEFATTSTCMK	T112	1	3	3695.648	0.014
16	Ubp2	9205	TTKsEIEVEWR	S135	1	2	1456.865	0.171
18	Ubp2	15897	SSSHQGSsHsSQPSLFTTFTSLELFLR	S179	1	3	3046.778	-0.658
20	Ubp2	6965	SGTsSVMDLSSSR	S722	1	2	1392.805	0.212
22	Ubp2	11165	SGTssVMDLSSSR	T721/S722/S723	2	2	1473.525	0.932
24	Ubp2	13327	SGTSSVMDLsssRELSNLNER	S728/S729/S730	1	3	2349.248	1.183
26	Ubp2	11008	sGTsSVMDLsSsRELSNLNER	S719/S722, S728/S730	2	3	2428.898	-0.833
28	Ubp2	16537	SSSVHPSSLVTLALIPLTLDQVKsGTsSVMDLSSSR	S719, S722	2	3	4023.548	1.545
30	Ucp6	11495	NMGVSEsDAKDSLER	S19	1	2	1717.405	0.669
32	Ucp6	12648	GLLFAEDNASFHRPFTDVAHLsssLsK	S43/S44/S45/S46/S48	1	3	3200.438	-0.9069
34	Ucp6	13030	GLLFAEDNASFHRPFTDVAHLsssLsK	S43/S44/S45/S46/S48	2	3	3279.458	-0.073
36	Ucp6	9550	PFTDVAHLSSSsLSK	S46	1	2	1742.465	0.639
38	Ucp6	12	LVPIMsstsiASSLPSyQDTFFLPSPR	S54/S55/T56/S57/Y65	1	3	3021.908	1.414
40	Ucp6	144	LVPIMsstsiASSLPSyQDTFFLPSPR	S54/S55/T56/S57/Y65	2	3	3101.708	-1.0938
42	Ucp6	12968	NVsPSANHNEQWYLVR	S463	1	3	1994.198	1.28
44	Ucp6	14229	NFIAEDNEYFDDELAGIIHsPtVSTR	S555/T557	1	3	3031.928	-0.45
46	Ucp6	15558	NFIAEDNEYFDDELAGIIHsPtVsTR	S555/T557, S559	2	3	3113.198	0.82
48	Ucp6	8349	SRNsACEFPESMHVEHSG	S598	1	3	2139.368	-0.472
50	Ubp3	2522	HVQGDsPVKK	S89	1	2	1174.146	0.558
52	Ubp3	11316	SGLDSFDDQsVEASGWTEVGK	S281/S282	1	2	2379.585	-0.423
54	Nxt3	8060	FLREDVEEEEEsPDAVEK	S145	1	3	2229.788	0.818
56	Nxt3	8395	FLREDVEEEEEsPDAVEKEK	S145	1	3	2486.828	0.721
58	Nxt3	8646	DVASEPYVNGVQsQEHLPSAK	S167	1	2	2334.985	-0.899
60	Nxt3	8362	KDVASEPYVNGVQsQEHLPSAK	S167	1	3	2463.248	1.066
62	Nxt3	3220	SQASVSSTAsTTGQTVK	S285	1	2	1719.445	0.639
64	Ubp4	8347	sPIAPLTEDQLSAR	S343	1	3	1577.588	0.805
66	Sfp47	9339	GVVLSVDVTsPISQSPK	S221	1	3	1894.118	1.135
68	Sfp47	8724	KLtPtTSPINSTSLSFVDAK	T231, T233	2	3	2266.838	0.717
70	Ubp5	8753	MVtGETLVDSQK	T3	1	2	1387.266	0.622
72	Ubp5	6153	MVTGETLVDSQK	S10	1	2	1387.165	0.521
74	Ubp5	13287	MVTGETLVDSQKSLINNDLLNEK	S10	1	3	2742.128	0.775
76	Ubp5	10353	SLINNDLLNEK	T19	1	2	1453.766	-0.146
78	Ubp5	12713	CFYNLQFMNEPVsTELTK	S274/T275	1	2	2401.725	0.662
80	Ubp5	11314	EALNPsiQLAELR	S554	1	2	1533.485	0.691
82	Ubp5	9618	VEsPVNELNSTMEEVK	S648	1	2	1900.525	0.669
84	Ubp5	15470	tFtQSELSTGDIICFEPcRPSALEDDIVNSGFDSALK	T763/T765	1	3	4200.158	1.264
86	Ftp105	14082	NLPKENSeldLSNFQDDLDfENSISQK	S136	1	3	3218.078	-0.385
88	Ftp105	12742	ENsELDLsNFQDDLDfENSISQK	S136	1	2	2766.765	0.577
90	Ftp105	14157	ENSELDLSNFQDDLDfENsISQKNEFSQK	S152	1	3	3500.498	0.97

Pg.	Protein	scan	Sequence	Site(s)	# PO4	z	Precursor mass	error (Da)
92	Ftp105	13460	SPSVPLsPVSTFPASSISLDASSDVSAAADVSGGSSTIK	S169	1	3	3786.638	0.791
94	Ftp105	10677	LNLsPGAAIENQYR	S374	1	2	1625.525	0.73
96	Ftp105	10334	SQPLVALNSEGsDFESK	S652/S653	1	2	1974.165	0.269
98	Ftp105	11213	SQPLVALNSEGsSDFESK	S649, S652	2	2	2054.465	0.569
100	Ftp105	10086	SSDNTsLDGTPLQNTDFK	S664	1	2	2018.745	-0.136
102	Ftp105	9489	SSDNTsLDGTPLQNTDFKK	S664	1	3	2148.458	1.482
104	Ftp105	11826	KVAIVEDDSPFDELDK	T680	1	2	1886.825	-0.027
106	Ftp105	14537	VAVVEDDSPFDELDFSSPFSSSSSR	T680	1	2	2915.465	-0.193
108	Ftp105	11486	VATVEDDSPFDELDFsPFSSSSSR	S695	1	3	2916.008	0.736
110	Ftp105	11504	VATVEDDSPFDELDFsSPFSSSSSR	S694	1	2	2915.706	0.434
112	Ftp105	14599	VATVEDDSPFDELDFSSPFSSSSsR	S698/S699/S700/S701/S702	1	2	2915.946	0.674
114	Ftp105	13304	NVsisVPTVLQDVFSDSLPLLSR	S715/S717	1	2	2551.686	0.359
116	Ftp105	10650	GKIPENVsssELIK	S746/S747/S748	1	2	1579.865	0.045
118	Ftp105	8203	GKIPENVsssELIKK	S746/S747/S748	1	2	1708.625	0.711
120	Ftp105	9744	IPENVsSSELIK	S746	1	2	1394.985	0.282
122	Ftp105	10572	IPENVsSSELIKK	S746	1	2	1523.325	-0.527
124	Ftp105	7173	VASPENSSNsMENATK	S893	1	2	1745.325	0.594
126	Ubp6	18272	AIPELSDAVsQFNSSGGLVAEYR	S129	1	2	2489.345	0.164
128	Ubp6	18122	AIPELSDAVsQFNsSGGLVAEYR	S133	1	2	2489.906	0.725
130	Ubp6	15569	TLLNSMQSNAPVtPMR	T143	1	2	1839.385	0.509
132	Ubp6	9647	IQPsEDEKEAEAEQR	S359	1	2	1870.365	0.594
134	Ubp7	9895	sLQLsPCLTDDEQLSK	S333, S337	2	2	1993.165	0.29
136	Ubp7	13954	sLQLSPCLTDDEQLSK	S333	1	2	1913.285	0.41
138	Ubp7	9756	SLQLsPCLTDDEQLSK	S337, T341	1	2	1993.405	0.53
140	Ubp7	9297	SLQLsPCLTDDEQLSK	S337	1	2	1913.185	0.31
142	Ubp7	11468	SLQLSPCLTDDEQLSK	T341	1	2	1913.465	0.59
144	Ubp7	10411	ELSQQSSDSSQHQHDSFLPANsSPLAASSTK	S420	1	3	3223.268	0.824
146	Ubp7	10959	ELsQQSSDssQHQHDSFLPANSSPLAASSTK	S401/S406/S407	2	3	3303.278	0.834
148	Ubp7	11416	SLPSELLDsSsDKGQQVFK	S439/S440	1	2	2231.545	0.475
150	Ubp7	10013	RsLDILR	S493	1	2	951.585	0.061
152	Ubp7	13453	LGELsSDDMMLDK	S503	1	2	1533.125	0.477
154	Ubp7	9744	RLsDLsVNSSGQISK	S648, S651	2	2	1750.125	0.288
156	Ubp7	9559	RLsDLSVNsSGQISK	S648, S654	2	2	1750.266	0.429
158	Ubp7	9682	RLsDLSVNSSGQISK	S648	1	2	1670.565	0.728
160	Ubp7	9446	RLSDLSVNsSGQISK	S654	1	2	1670.465	0.628
162	Ubp7	8324	LSDLSVNsSGQISK	S654	1	2	1514.445	0.709
164	Ubp7	10401	GGLTSDNDKysFNNSVYR	Y722/S723	1	2	2116.446	0.522
166	Ubp9	8693	WMGMNsPGSTDR	S11	1	2	1417.745	0.196
168	Ubp9	9436	KSsLYGSNGINSCGCVDISNVGSESGTK	S110	1	3	2956.598	0.321
170	Ubp9	10550	ESIKPMSIPSQLKQESVEVSNLSSiPR	T462	1	3	3067.178	0.645
172	Ubp9	6870	QESVEVSNLSSiPR	T462	1	2	1611.725	-0.023
174	Ubp9	8715	SYFDREPsLDAER	S505	1	3	1664.168	0.446
176	Ubp9	6458	SKFFGSSQSNsPK	S550	1	2	1479.965	0.292
178	Ubp9	5945	FFGSSQSNsPK	S550	1	2	1264.485	-0.061
180	Ubp9	9537	FFGSSQSNsPKDSPLR	S550	1	2	1833.345	0.502
182	Ubp9	8728	FFGSSQsNsPKDSPLR	S548, S550	2	3	1913.618	0.775
184	Ubp9	7018	FFGSSQsNSPKDsPLRDTHK	S548, S554	2	3	2394.998	0.926

Pg.	Protein	scan	Sequence	Site(s)	# PO4	z	Precursor mass	error (Da)
186	Ubp9	7026	FFGSSQSNsPKDsPLRDTHK	S550, S554	2	3	2394.278	0.206
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190	Bun107	9800	GNVNMPSALsPLR	S568	1	2	1434.525	-0.178
192	Bun107	5875	NRKPHTEVVGsPTVVR	S655	1	3	1855.598	0.618
194	Bun107	5792	KPHTEVVGsPTVVR	S655	1	2	1585.105	0.269
196	Bun107	8955	VFstGTGTSVTSPQALSK	S710	1	2	1688.885	0.049
198	Bun107	7794	VFSTGTSTSPQALSK	S717	1	2	1688.805	0.03
200	Bun107	8179	SKsSKsLQTDfMK	S790, S793	2	2	1645.945	0.195
202	Bun107	6707	SSKsLQTDfMK	S793	1	2	1366.845	16.222
204	Bun107	10200	SVsEIVDKTQSLNI	S951	1	2	1612.266	0.457
206	Bun107	10317	SVSEIVDKTQsLNI	S959	1	2	1611.766	-0.043
208	Bun62	7201	StPQITGSPLDPNTPVK	T37	1	2	1831.305	0.395
210	Bun62	8756	STPQITGSPLDPNTPVK	S43	1	2	1831.725	0.815
212	Bun62	8479	SHNFSSSNtPYLK	T116	1	2	1560.425	-0.27
214	Ubp12	7983	sLsEEsQsSNMDDISQK	S19/S21/S24/S26/S27	2	3	2132.078	1.24
216	Ubp12	8058	sLSEESQSSSNMDDISQK	S19	1	3	2052.278	1.44
218	Ubp12	10767	SLSEESQSSSNMDDISQKsISLGDASEISK	S37	1	3	3239.888	1.447
220	Ubp12	8042	siSLGDASEISK	S37	1	2	1285.225	-0.389
222	Ubp12	10668	SisLGDASEISK	S39	1	2	1285.805	0.191
224	Ubp12	15034	IPTGWNMsVSNLPLLTER	S708	1	2	2106.946	-0.105
226	Ubp12	12562	DLEsTVDPLDAHSIEEEDDSEFK	S725	1	2	2699.565	0.43
228	Ubp12	13832	DLESTVDPLDAHsIEEEDDSEFK	S734	1	2	2699.646	0.511
230	Ubp12	11741	DLEstVDPLDAHsIEEEDDSEFK	S725/T726, S734	2	2	2779.666	0.531
232	Ubp12	10728	DLEsTVDPLDAHSIEEEDDSEFKDVAPGSYPEPSK	S725	1	3	3927.848	1.136
234	Ubp12	13475	DLESTVDPLDAHsIEEEDDSEFKDVAPGSYPEPSK	S734	1	3	3926.378	-0.334
236	Ubp12	8308	TILSDKKDdsEDSR	S819	1	2	1688.365	0.601
238	Ubp14	11886	YssFSSQGLTLTVPR	S453/S454	1	2	1722.465	0.629
240	Ubp15	2973	IPTDNDDSRDsVAYALQR	S271	1	2	2115.625	0.664
242	Ubp15	13724	LDHILsPVTAEDVPFHVR	S553	1	2	2124.646	0.572
244	Ubp15	4964	YHGfDMtDFsASDDDPVLITTK	T608	1	3	2555.078	0.983
245	Sst2	13745	SSSDLPQFDYPsLNssPtFNsNLPISSSR	S186/S189/S190/T192/S195	1	3	3225.128	1.66
247	Sst2	7802	FEKtsLSDSK	S208	1	2	1221.125	0.559
249	Sst2	12002	LVsPEPLDDNKDIQFIK	S216	1	2	2050.605	0.569
251	Rpn11	10700	VQNEVTLsPEQLR	S265	1	2	1592.525	0.731
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255	Rpn1	7133	DISSKsPSGNDALNDKK	S10	1	3	1855.628	0.758
257	Rpn1	7071	DISSKsPSGNDALNDKKGTK	S10	1	3	2141.978	0.944
259	Rpn2	8404	TTEEKEAtPMEMDEEK	T856	1	2	1977.305	0.508
261	Rpn2	12078	DAVPASADTEPGEQEAsPPEDFEYPFDDDD	S952	1	3	3335.258	0.973
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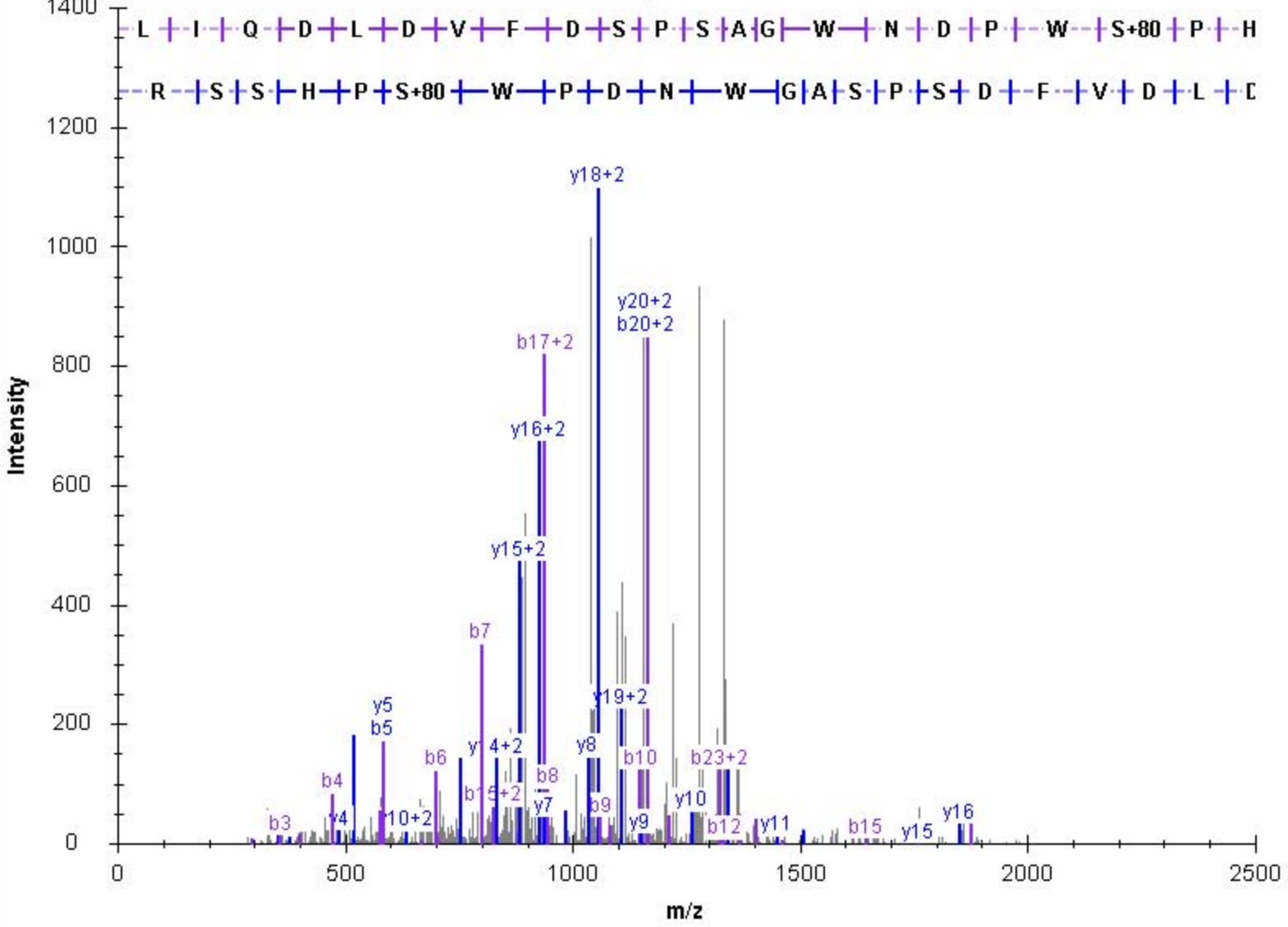
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698.372	349.690	6	D	20	2323.974	1162.491
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2324.024	1162.516	20	S	6	670.327	335.667
2421.077	1211.042	21	P	5	583.295	292.151
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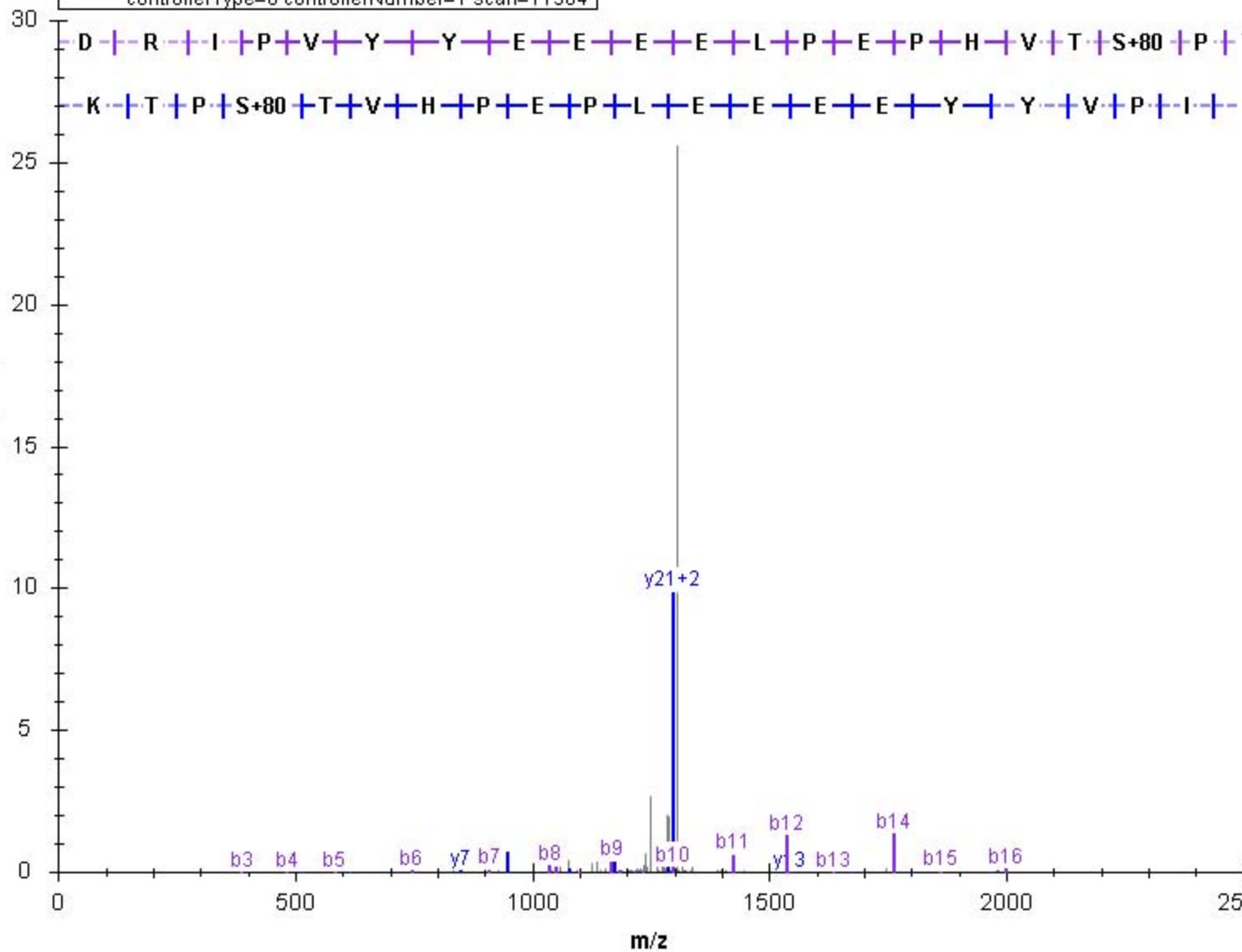
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1644.790	822.899	15	W	11	1448.608	724.808
1758.833	879.920	16	N	10	1262.529	631.768
1873.860	937.434	17	D	9	1148.486	574.747
1970.913	985.960	18	P	8	1033.459	517.233
2156.992	1079.000	19	W	7	936.406	468.707
2324.024	1162.516	20	S	6	750.327	375.667
2421.077	1211.042	21	P	5	583.295	292.151
2558.136	1279.572	22	H	4	486.242	243.625
2645.168	1323.088	23	S	3	349.183	175.095
2732.200	1366.604	24	S	2	262.151	131.579
2888.301	1444.654	25	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=14450



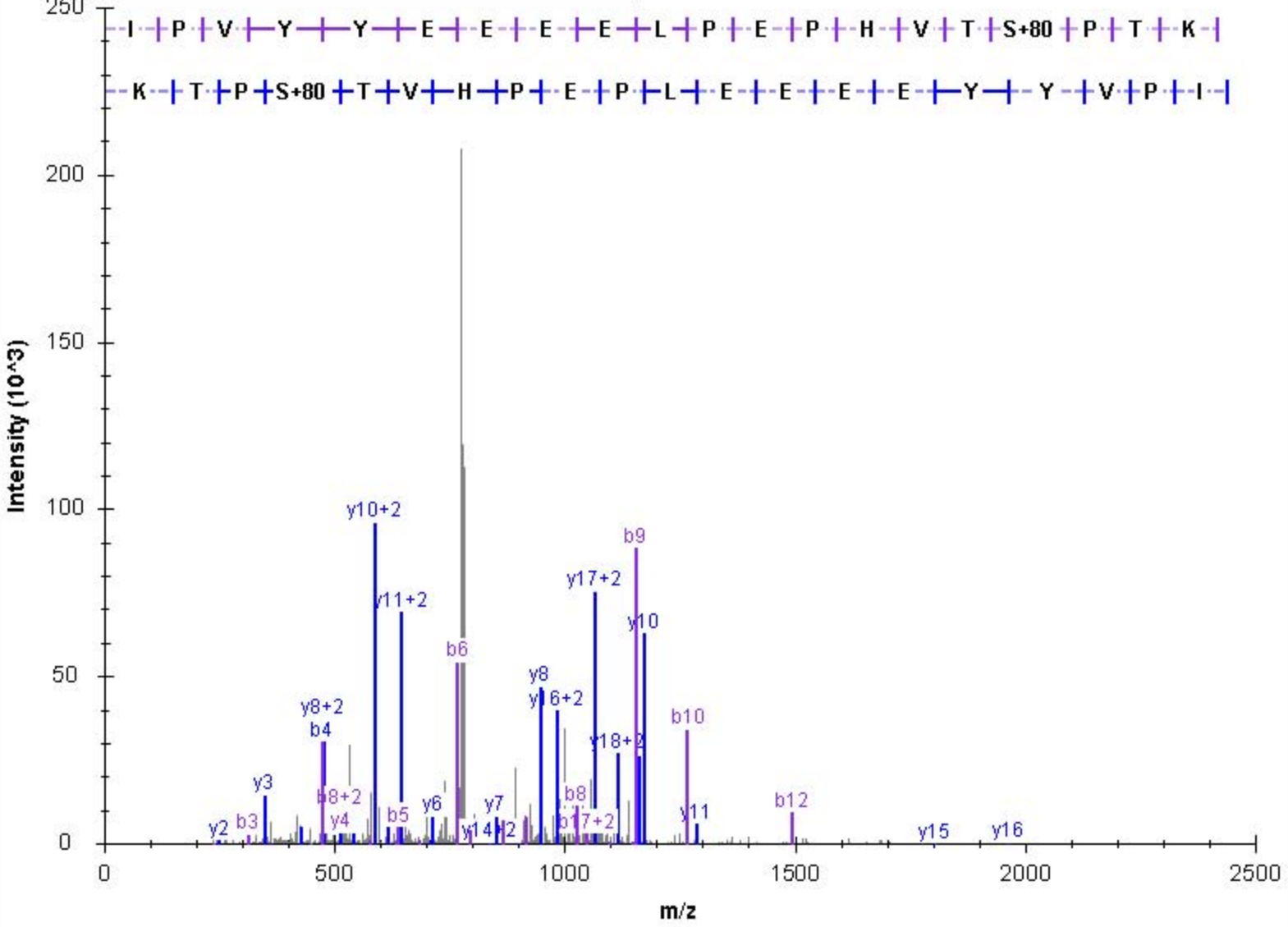
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	22	2708.283	1354.645
272.135	136.571	2	R	21	2593.256	1297.132
385.219	193.113	3	I	20	2437.155	1219.081
482.272	241.640	4	P	19	2324.071	1162.539
581.341	291.174	5	V	18	2227.018	1114.013
744.404	372.706	6	Y	17	2127.949	1064.478
907.467	454.237	7	Y	16	1964.886	982.947
1036.510	518.759	8	E	15	1801.823	901.415
1165.552	583.280	9	E	14	1672.780	836.894
1294.595	647.801	10	E	13	1543.738	772.372
1423.638	712.322	11	E	12	1414.695	707.851
1536.722	768.864	12	L	11	1285.652	643.330
1633.774	817.391	13	P	10	1172.568	586.788
1762.817	881.912	14	E	9	1075.516	538.261
1859.870	930.439	15	P	8	946.473	473.740
1996.929	998.968	16	H	7	849.420	425.214
2095.997	1048.502	17	V	6	712.361	356.684
2197.045	1099.026	18	T	5	613.293	307.150
2364.077	1182.542	19	S	4	512.245	256.626
2461.130	1231.068	20	P	3	345.213	173.110
2562.177	1281.592	21	T	2	248.160	124.584
2690.272	1345.640	22	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11504



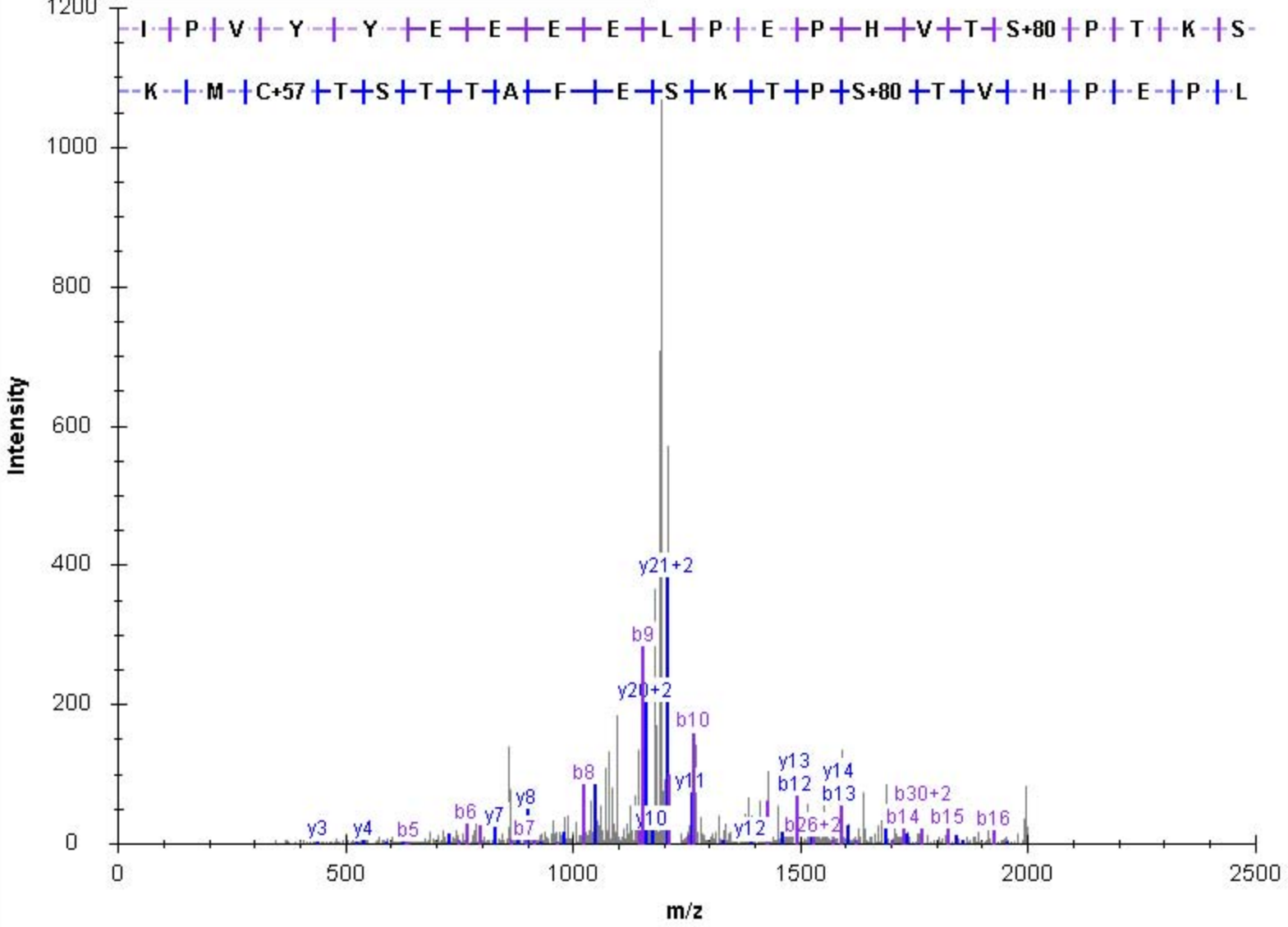
b	b(+2)				y	y(+2)
114.091	57.549	1	I	20	2437.155	1219.081
211.144	106.076	2	P	19	2324.071	1162.539
310.213	155.610	3	V	18	2227.018	1114.013
473.276	237.142	4	Y	17	2127.949	1064.478
636.339	318.673	5	Y	16	1964.886	982.947
765.382	383.195	6	E	15	1801.823	901.415
894.424	447.716	7	E	14	1672.780	836.894
1023.467	512.237	8	E	13	1543.738	772.372
1152.510	576.758	9	E	12	1414.695	707.851
1265.594	633.300	10	L	11	1285.652	643.330
1362.646	681.827	11	P	10	1172.568	586.788
1491.689	746.348	12	E	9	1075.516	538.261
1588.742	794.875	13	P	8	946.473	473.740
1725.801	863.404	14	H	7	849.420	425.214
1824.869	912.938	15	V	6	712.361	356.684
1925.917	963.462	16	T	5	613.293	307.150
2092.949	1046.978	17	S	4	512.245	256.626
2190.002	1095.504	18	P	3	345.213	173.110
2291.049	1146.028	19	T	2	248.160	124.584
2419.144	1210.076	20	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11634



b	b(+2)			y	y(+2)	
114.091	57.549	1	I	31	3680.655	1840.831
211.144	106.076	2	P	30	3567.571	1784.289
310.213	155.610	3	V	29	3470.518	1735.763
473.276	237.142	4	Y	28	3371.449	1686.228
636.339	318.673	5	Y	27	3208.386	1604.697
765.382	383.195	6	E	26	3045.323	1523.165
894.424	447.716	7	E	25	2916.280	1458.644
1023.467	512.237	8	E	24	2787.237	1394.122
1152.510	576.758	9	E	23	2658.195	1329.601
1265.594	633.300	10	L	22	2529.152	1265.080
1362.646	681.827	11	P	21	2416.068	1208.538
1491.689	746.348	12	E	20	2319.015	1160.011
1588.742	794.875	13	P	19	2189.973	1095.490
1725.801	863.404	14	H	18	2092.920	1046.964
1824.869	912.938	15	V	17	1955.861	978.434
1925.917	963.462	16	T	16	1856.793	928.900
2092.949	1046.978	17	S	15	1755.745	878.376
2190.002	1095.504	18	P	14	1588.713	794.860
2291.049	1146.028	19	T	13	1491.660	746.334
2419.144	1210.076	20	K	12	1390.613	695.810
2506.176	1253.592	21	S	11	1262.518	631.762
2635.219	1318.113	22	E	10	1175.486	588.246
2782.287	1391.647	23	F	9	1046.443	523.725
2853.324	1427.166	24	A	8	899.375	450.191
2954.372	1477.690	25	T	7	828.338	414.672
3055.420	1528.213	26	T	6	727.290	364.149
3142.452	1571.729	27	S	5	626.242	313.625
3243.499	1622.253	28	T	4	539.210	270.109
3403.509	1702.258	29	C	3	438.162	219.585
3534.549	1767.778	30	M	2	278.153	139.580
3662.644	1831.826	31	K	1	147.113	74.060

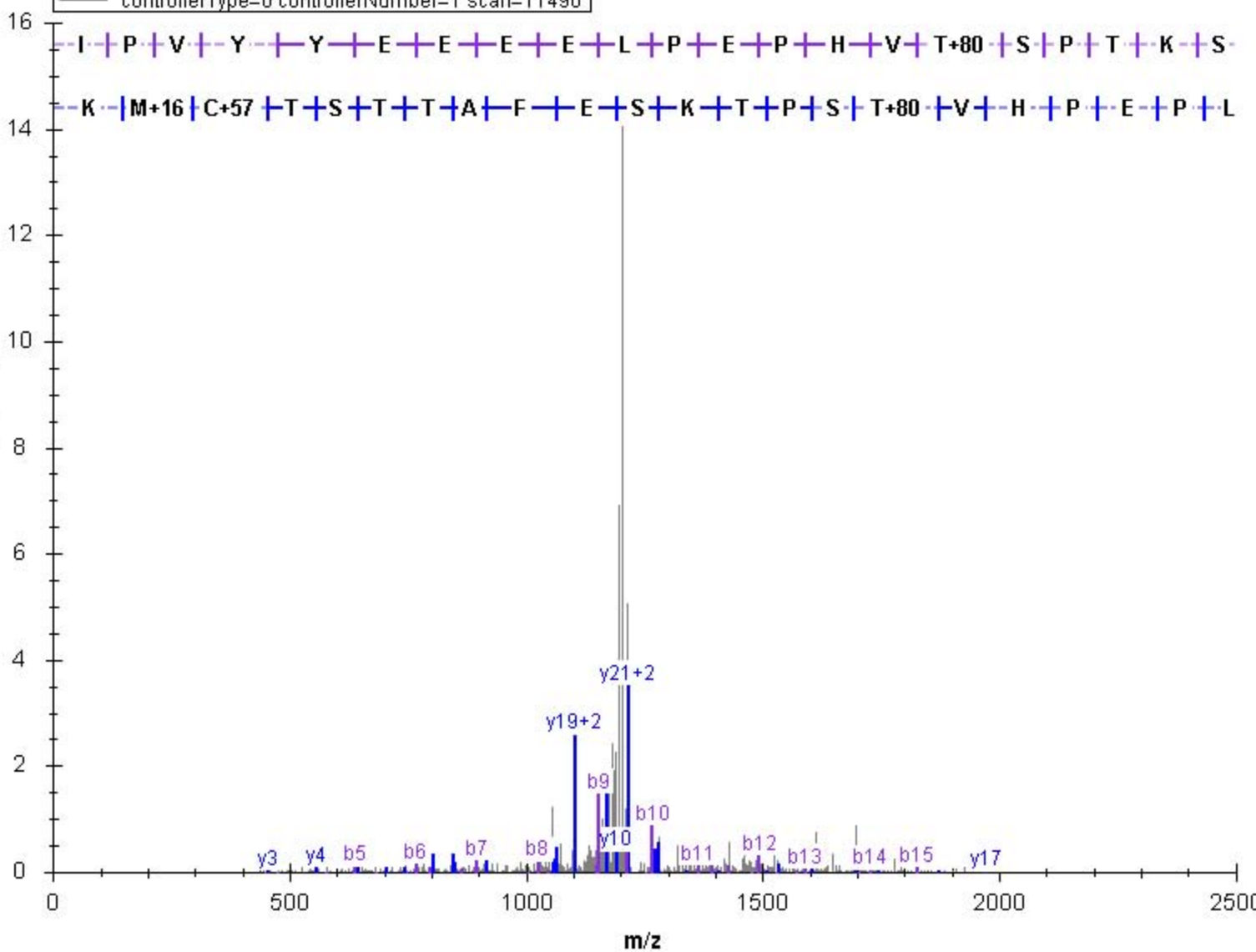
controllerType=0 controllerNumber=1 scan=14706



b	b(+2)			y	y(+2)	
114.091	57.549	1	I	31	3696.655	1848.831
211.144	106.076	2	P	30	3583.571	1792.289
310.213	155.610	3	V	29	3486.518	1743.763
473.276	237.142	4	Y	28	3387.449	1694.228
636.339	318.673	5	Y	27	3224.386	1612.697
765.382	383.195	6	E	26	3061.323	1531.165
894.424	447.716	7	E	25	2932.280	1466.644
1023.467	512.237	8	E	24	2803.237	1402.122
1152.510	576.758	9	E	23	2674.195	1337.601
1265.594	633.300	10	L	22	2545.152	1273.080
1362.646	681.827	11	P	21	2432.068	1216.538
1491.689	746.348	12	E	20	2335.015	1168.011
1588.742	794.875	13	P	19	2205.973	1103.490
1725.801	863.404	14	H	18	2108.920	1054.964
1824.869	912.938	15	V	17	1971.861	986.434
2005.917	1003.462	16	T	16	1872.793	936.900
2092.949	1046.978	17	S	15	1691.745	846.376
2190.002	1095.504	18	P	14	1604.713	802.860
2291.049	1146.028	19	T	13	1507.660	754.334
2419.144	1210.076	20	K	12	1406.613	703.810
2506.176	1253.592	21	S	11	1278.518	639.762
2635.219	1318.113	22	E	10	1191.486	596.246
2782.287	1391.647	23	F	9	1062.443	531.725
2853.324	1427.166	24	A	8	915.375	458.191
2954.372	1477.690	25	T	7	844.338	422.672
3055.420	1528.213	26	T	6	743.290	372.149
3142.452	1571.729	27	S	5	642.242	321.625
3243.499	1622.253	28	T	4	555.210	278.109
3403.509	1702.258	29	C	3	454.162	227.585
3550.549	1775.778	30	M	2	294.153	147.580
3678.644	1839.826	31	K	1	147.113	74.060

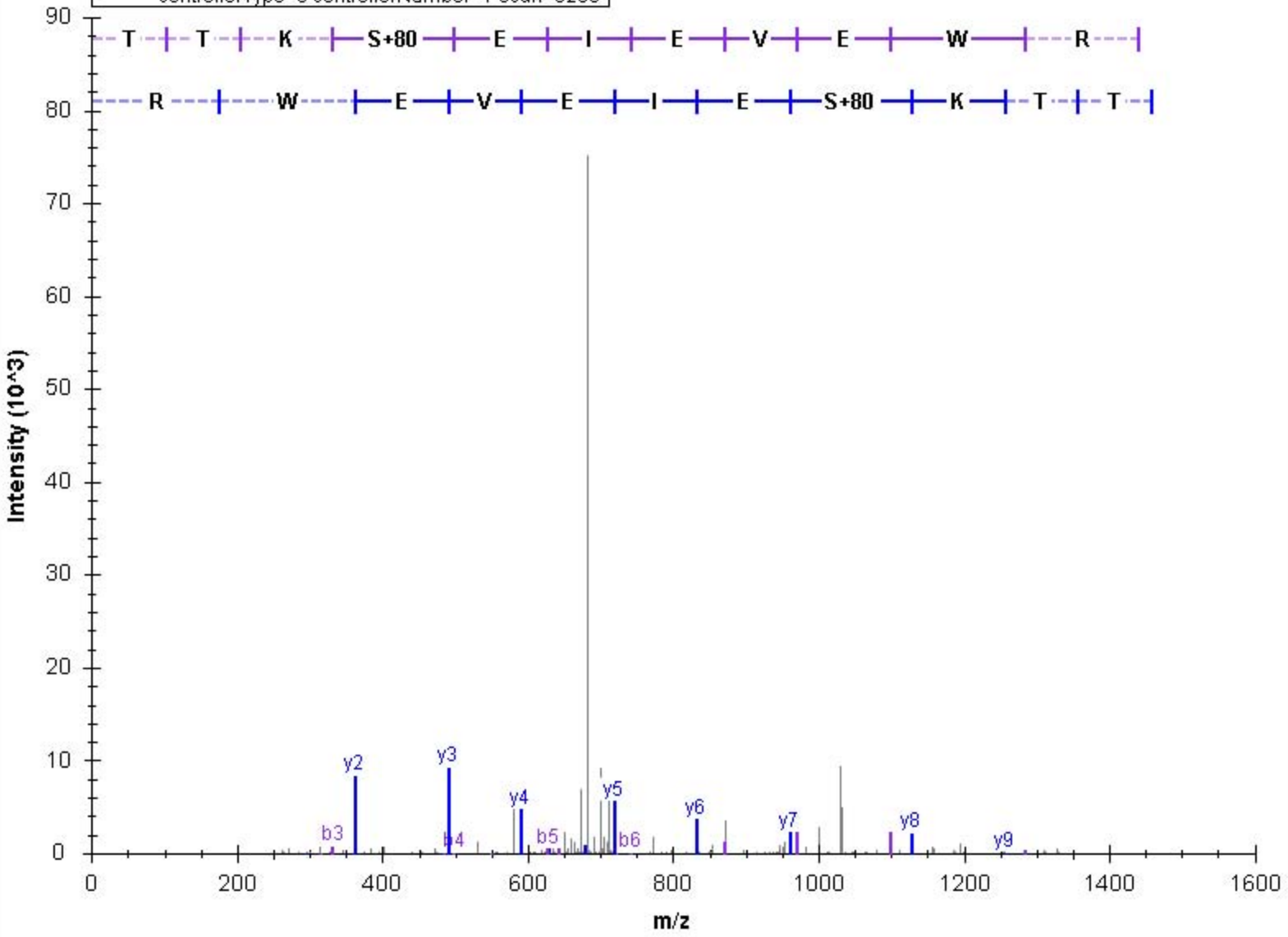
controllerType=0 controllerNumber=1 scan=11490

Intensity (10³)



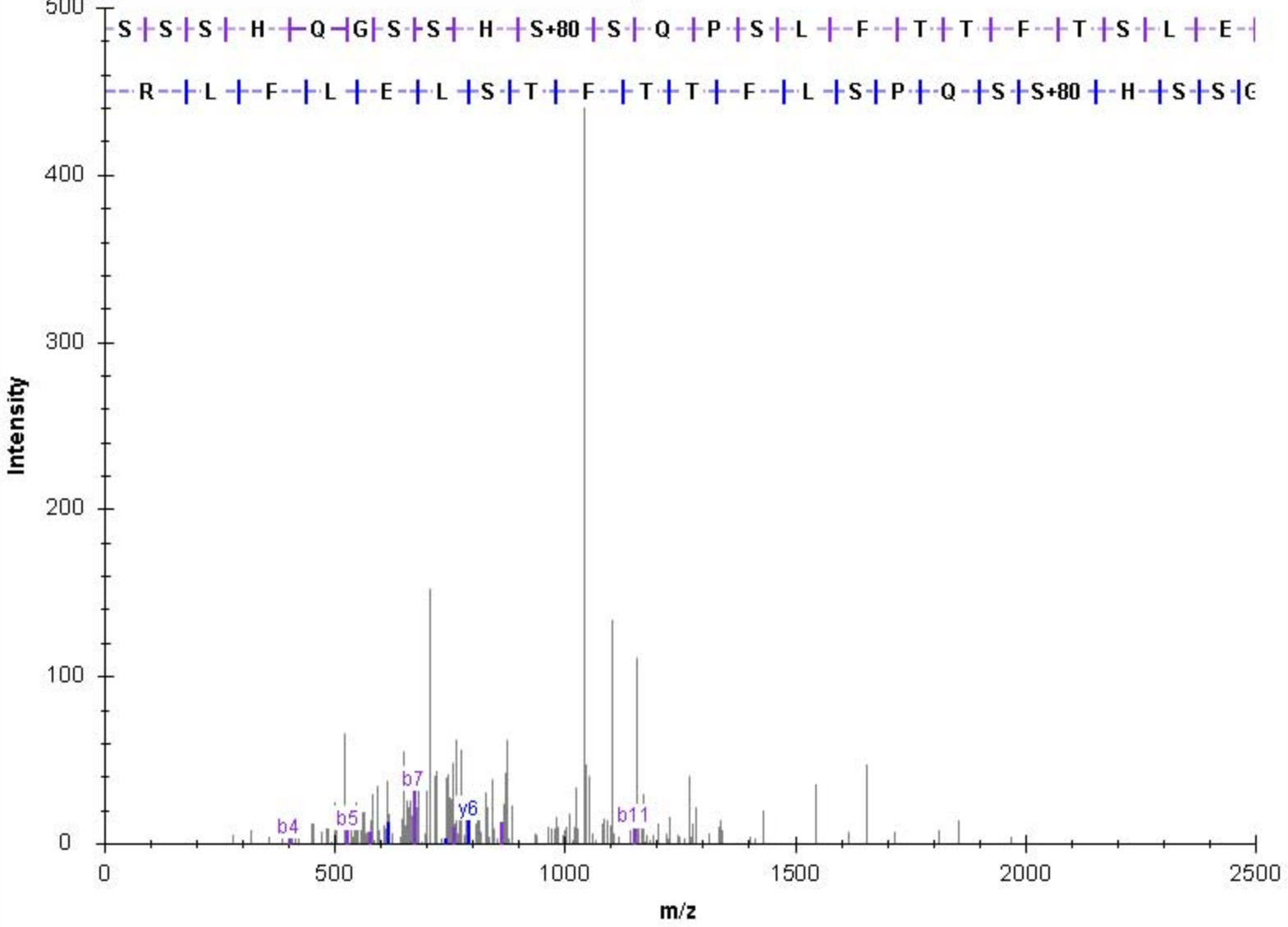
b	b(+2)				y	y(+2)
102.055	51.531	1	T	11	1457.701	729.354
203.103	102.055	2	T	10	1356.653	678.830
331.198	166.102	3	K	9	1255.606	628.306
498.230	249.618	4	S	8	1127.511	564.259
627.272	314.140	5	E	7	960.479	480.743
740.356	370.682	6	I	6	831.436	416.222
869.399	435.203	7	E	5	718.352	359.680
968.467	484.737	8	V	4	589.309	295.158
1097.510	549.259	9	E	3	490.241	245.624
1283.589	642.298	10	W	2	361.198	181.103
1439.690	720.349	11	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=9205



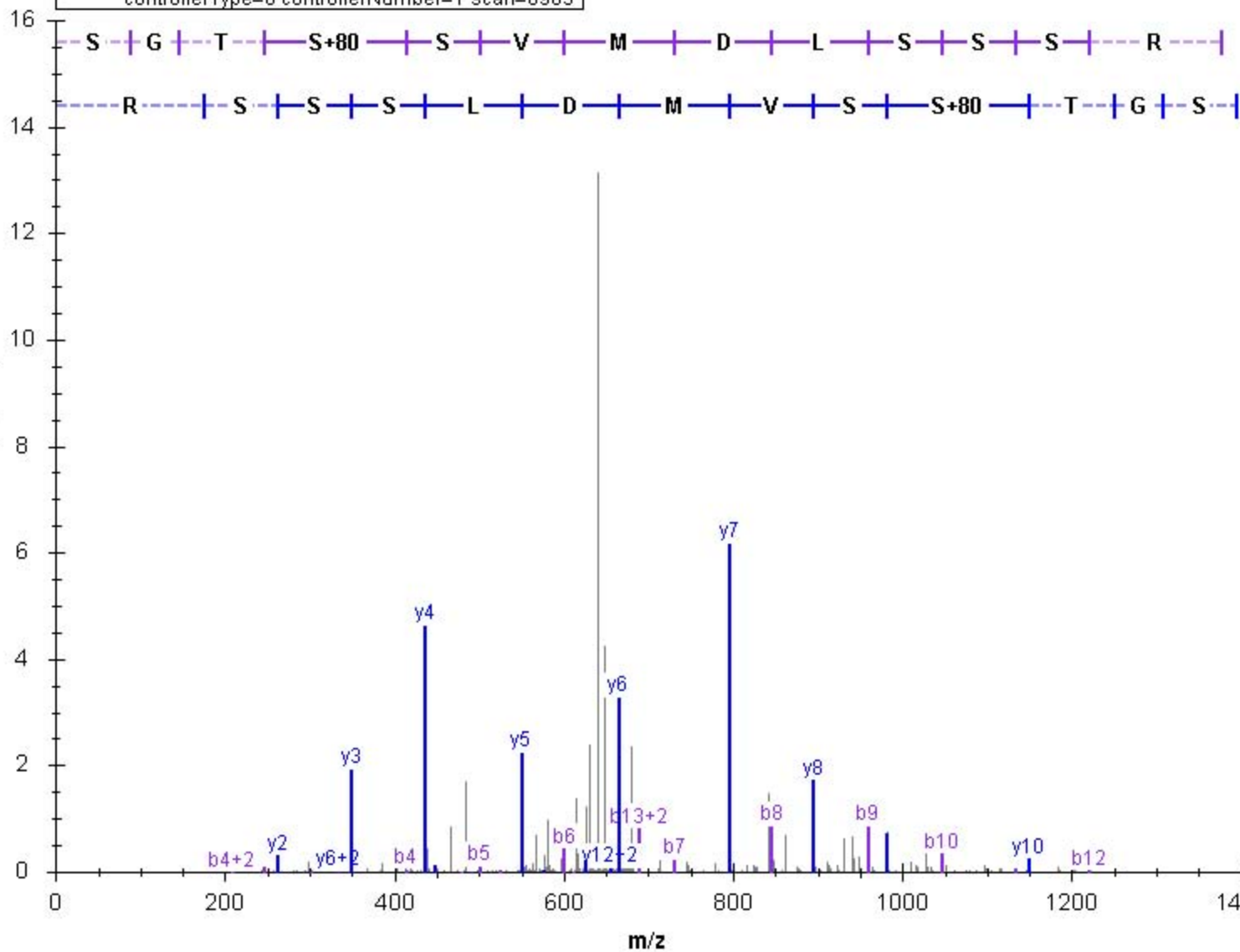
b	b(+2)			y	y(+2)
88.039	44.523	1	S	27	3048.444 1524.725
175.071	88.039	2	S	26	2961.412 1481.209
262.103	131.555	3	S	25	2874.379 1437.693
399.162	200.085	4	H	24	2787.347 1394.177
527.221	264.114	5	Q	23	2650.289 1325.648
584.242	292.625	6	G	22	2522.230 1261.619
671.274	336.141	7	S	21	2465.209 1233.108
758.306	379.657	8	S	20	2378.176 1189.592
895.365	448.186	9	H	19	2291.144 1146.076
1062.397	531.702	10	S	18	2154.086 1077.546
1149.429	575.218	11	S	17	1987.054 994.030
1277.488	639.248	12	Q	16	1900.021 950.514
1374.541	687.774	13	P	15	1771.963 886.485
1461.573	731.290	14	S	14	1674.910 837.959
1574.657	787.832	15	L	13	1587.878 794.443
1721.725	861.366	16	F	12	1474.794 737.901
1822.773	911.890	17	T	11	1327.726 664.366
1923.821	962.414	18	T	10	1226.678 613.843
2070.889	1035.948	19	F	9	1125.630 563.319
2171.937	1086.472	20	T	8	978.562 489.785
2258.969	1129.988	21	S	7	877.514 439.261
2372.053	1186.530	22	L	6	790.482 395.745
2501.095	1251.051	23	E	5	677.398 339.203
2614.179	1307.593	24	L	4	548.355 274.681
2761.248	1381.128	25	F	3	435.271 218.139
2874.332	1437.670	26	L	2	288.203 144.605
3030.433	1515.720	27	R	1	175.119 88.063

controllerType=0 controllerNumber=1 scan=15897



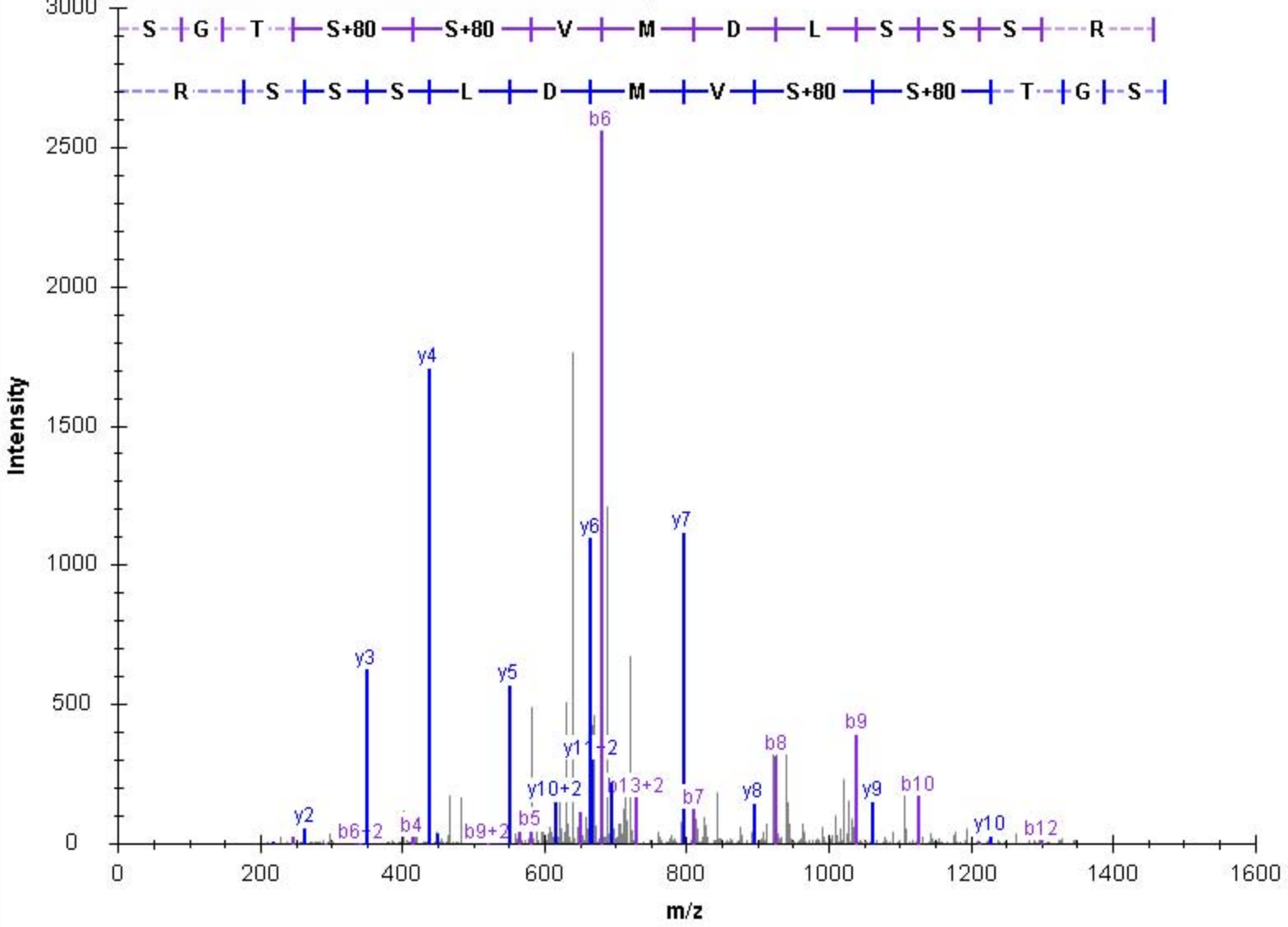
b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1393.600	697.304
145.061	73.034	2	G	12	1306.568	653.788
246.108	123.558	3	T	11	1249.547	625.277
413.140	207.074	4	S	10	1148.499	574.753
500.173	250.590	5	S	9	981.467	491.237
599.241	300.124	6	V	8	894.435	447.721
730.281	365.644	7	M	7	795.367	398.187
845.308	423.158	8	D	6	664.326	332.667
958.392	479.700	9	L	5	549.299	275.153
1045.424	523.216	10	S	4	436.215	218.611
1132.456	566.732	11	S	3	349.183	175.095
1219.488	610.248	12	S	2	262.151	131.579
1375.590	688.298	13	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=6965



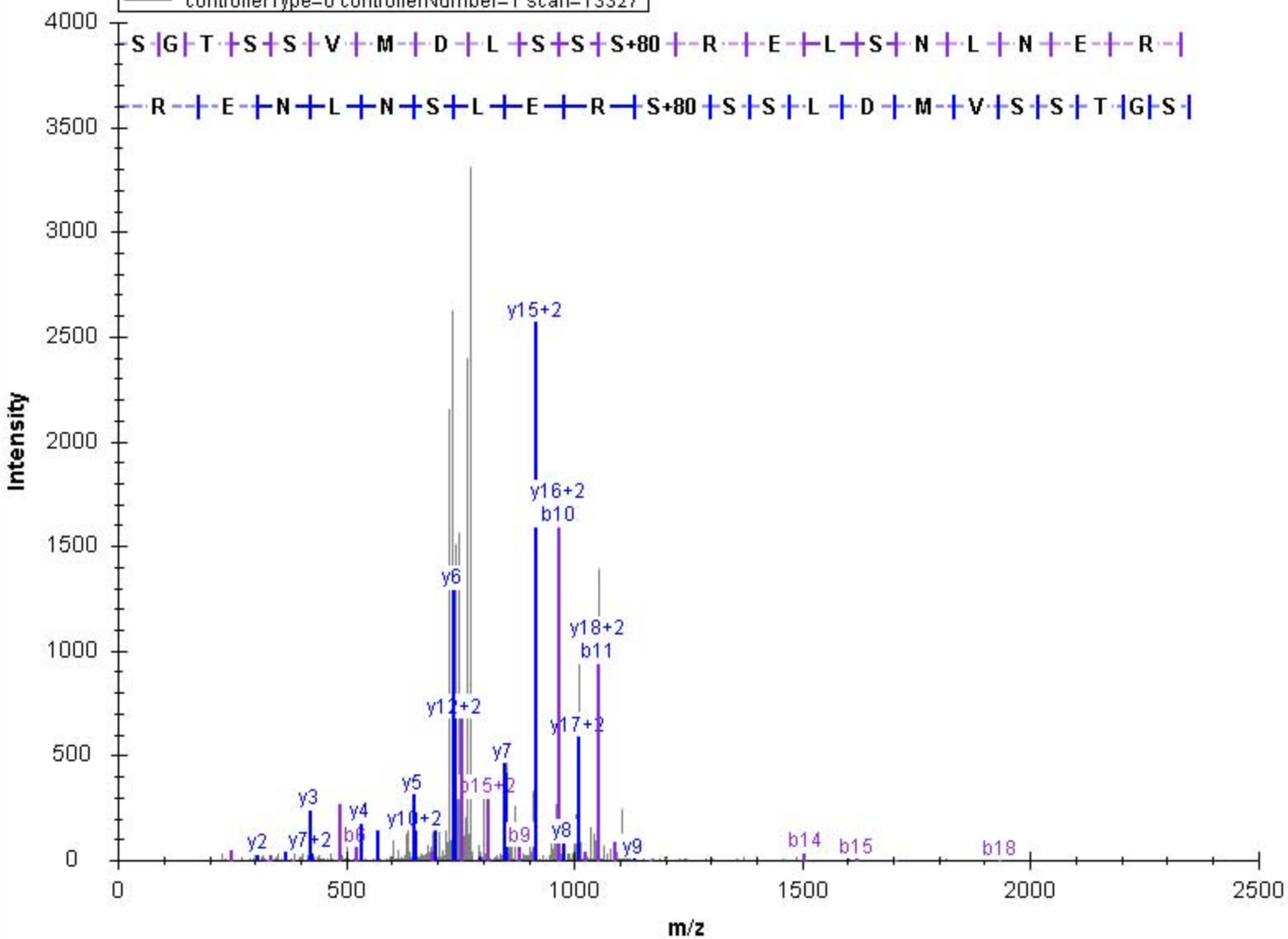
b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1473.600	737.304
145.061	73.034	2	G	12	1386.568	693.788
246.108	123.558	3	T	11	1329.547	665.277
413.140	207.074	4	S	10	1228.499	614.753
580.173	290.590	5	S	9	1061.467	531.237
679.241	340.124	6	V	8	894.435	447.721
810.281	405.644	7	M	7	795.367	398.187
925.308	463.158	8	D	6	664.326	332.667
1038.392	519.700	9	L	5	549.299	275.153
1125.424	563.216	10	S	4	436.215	218.611
1212.456	606.732	11	S	3	349.183	175.095
1299.488	650.248	12	S	2	262.151	131.579
1455.590	728.298	13	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11165



b	b(+2)			y	y(+2)	
88.039	44.523	1	S	21	2349.072	1175.040
145.061	73.034	2	G	20	2262.040	1131.524
246.108	123.558	3	T	19	2205.019	1103.013
333.140	167.074	4	S	18	2103.971	1052.489
420.173	210.590	5	S	17	2016.939	1008.973
519.241	260.124	6	V	16	1929.907	965.457
650.281	325.644	7	M	15	1830.839	915.923
765.308	383.158	8	D	14	1699.798	850.403
878.392	439.700	9	L	13	1584.771	792.889
965.424	483.216	10	S	12	1471.687	736.347
1052.456	526.732	11	S	11	1384.655	692.831
1219.488	610.248	12	S	10	1297.623	649.315
1375.590	688.298	13	R	9	1130.591	565.799
1504.632	752.820	14	E	8	974.490	487.749
1617.716	809.362	15	L	7	845.448	423.227
1704.748	852.878	16	S	6	732.363	366.685
1818.791	909.899	17	N	5	645.331	323.169
1931.875	966.441	18	L	4	531.289	266.148
2045.918	1023.463	19	N	3	418.204	209.606
2174.961	1087.984	20	E	2	304.162	152.584
2331.062	1166.035	21	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=13327



b	b(+2)				y	y(+2)
88.039	44.523	1	S	21	2429.072	1215.040
145.061	73.034	2	G	20	2342.040	1171.524
246.108	123.558	3	T	19	2285.019	1143.013
413.140	207.074	4	S	18	2183.971	1092.489
500.173	250.590	5	S	17	2016.939	1008.973
599.241	300.124	6	V	16	1929.907	965.457
730.281	365.644	7	M	15	1830.839	915.923
845.308	423.158	8	D	14	1699.798	850.403
958.392	479.700	9	L	13	1584.771	792.889
1045.424	523.216	10	S	12	1471.687	736.347
1132.456	566.732	11	S	11	1384.655	692.831
1299.488	650.248	12	S	10	1297.623	649.315
1455.590	728.298	13	R	9	1130.591	565.799
1584.632	792.820	14	E	8	974.490	487.749
1697.716	849.362	15	L	7	845.448	423.227
1784.748	892.878	16	S	6	732.363	366.685
1898.791	949.899	17	N	5	645.331	323.169
2011.875	1006.441	18	L	4	531.289	266.148
2125.918	1063.463	19	N	3	418.204	209.606
2254.961	1127.984	20	E	2	304.162	152.584
2411.062	1206.035	21	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11008

S | G | T | S+80 | S | V | M | D | L | S | S | S+80 | R | E | L | S | N | L | N | E | R |
R | E | N | L | N | S | L | E | R | S+80 | S | S | L | D | M | V | S | S+80 | T | G | S |

Intensity (10³)

12
10
8
6
4
2
0

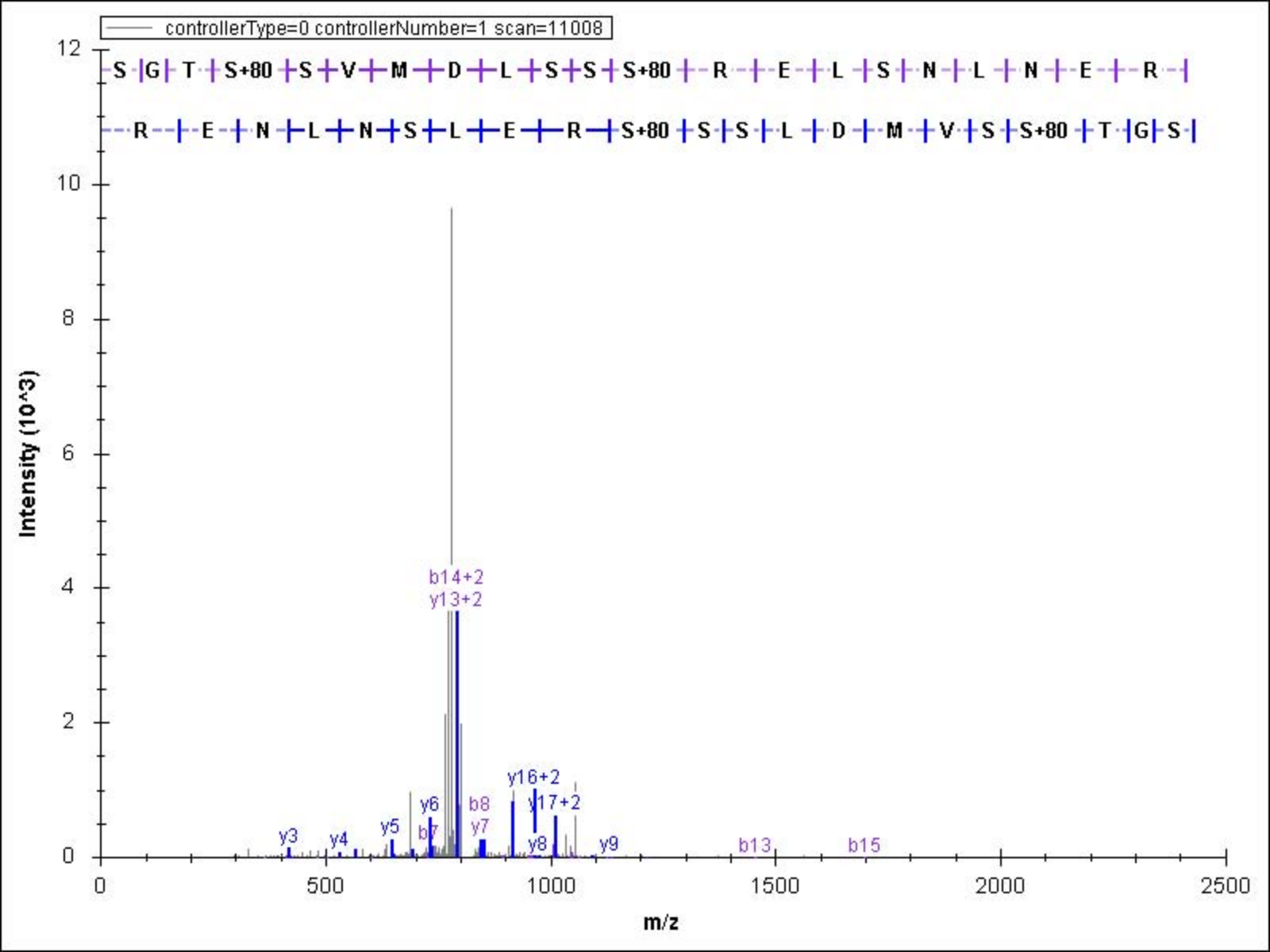
0 500 1000 1500 2000 2500

m/z

y3 y4 y5 y6 y7 y8 y9
b7 b8
b14+2 y13+2
y16+2 y17+2

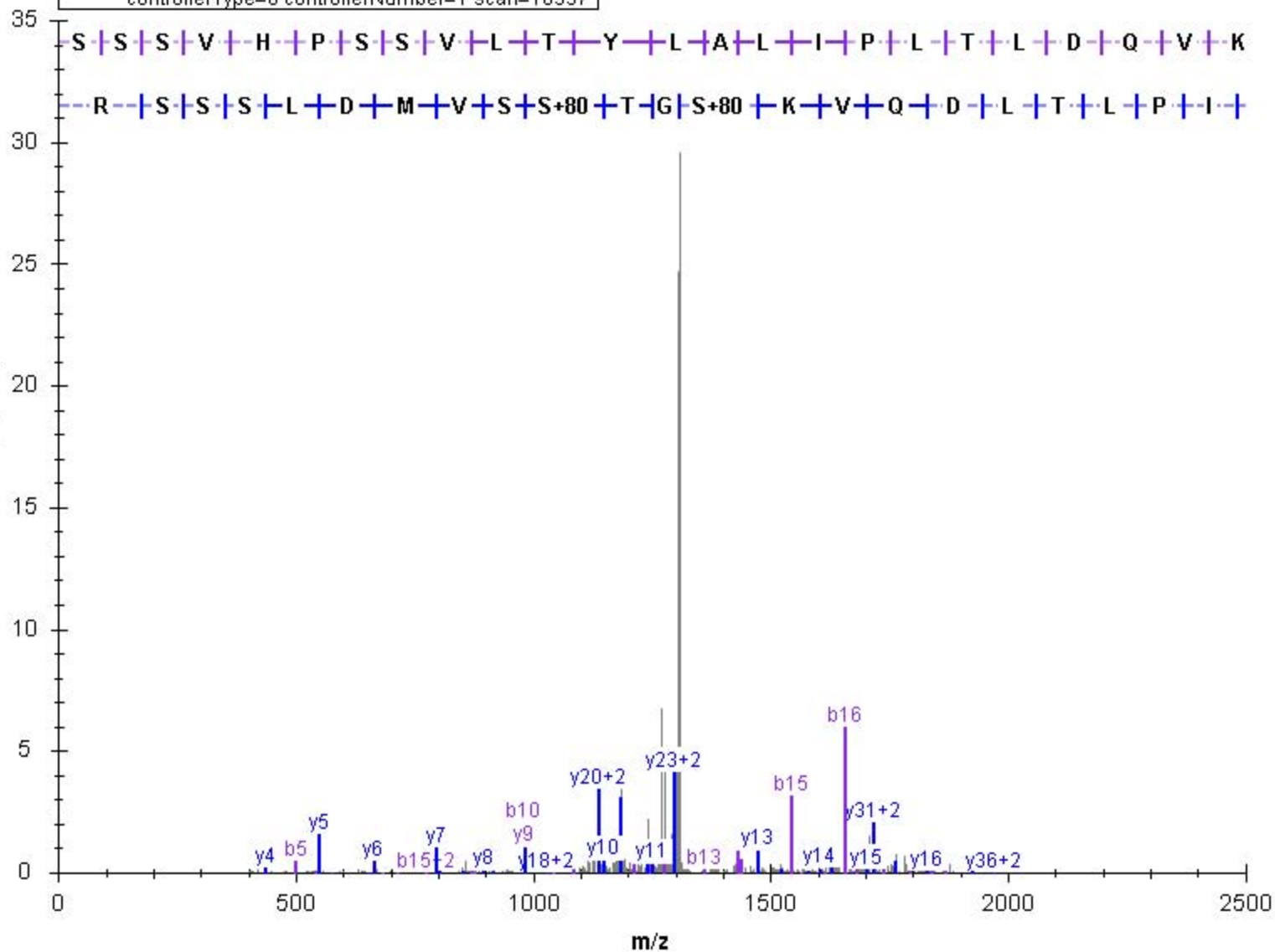
b13

b15



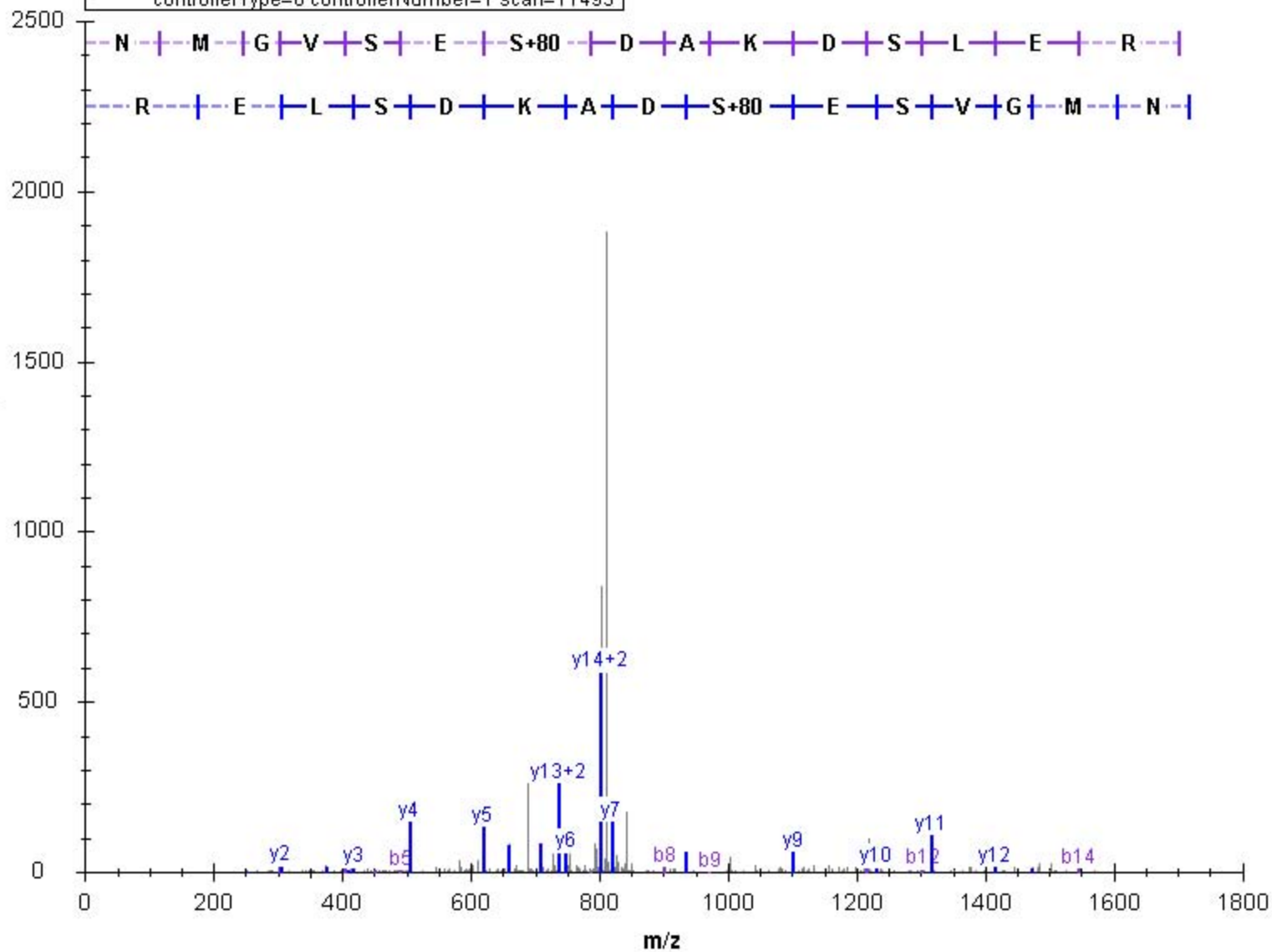
b	b(+2)			y	y(+2)	
88.039	44.523	1	S	37	4023.011	2012.009
175.071	88.039	2	S	36	3935.979	1968.493
262.103	131.555	3	S	35	3848.947	1924.977
361.172	181.090	4	V	34	3761.915	1881.461
498.231	249.619	5	H	33	3662.846	1831.927
595.283	298.145	6	P	32	3525.787	1763.397
682.315	341.661	7	S	31	3428.734	1714.871
769.348	385.177	8	S	30	3341.702	1671.355
868.416	434.712	9	V	29	3254.670	1627.839
981.500	491.254	10	L	28	3155.602	1578.305
1082.548	541.777	11	T	27	3042.518	1521.763
1245.611	623.309	12	Y	26	2941.470	1471.239
1358.695	679.851	13	L	25	2778.407	1389.707
1429.732	715.370	14	A	24	2665.323	1333.165
1542.816	771.912	15	L	23	2594.286	1297.647
1655.900	828.454	16	I	22	2481.202	1241.104
1752.953	876.980	17	P	21	2368.118	1184.562
1866.037	933.522	18	L	20	2271.065	1136.036
1967.085	984.046	19	T	19	2157.981	1079.494
2080.169	1040.588	20	L	18	2056.933	1028.970
2195.196	1098.102	21	D	17	1943.849	972.428
2323.254	1162.131	22	Q	16	1828.822	914.915
2422.323	1211.665	23	V	15	1700.764	850.885
2550.418	1275.713	24	K	14	1601.695	801.351
2717.450	1359.229	25	S	13	1473.600	737.304
2774.471	1387.739	26	G	12	1306.568	653.788
2875.519	1438.263	27	T	11	1249.547	625.277
3042.551	1521.779	28	S	10	1148.499	574.753
3129.583	1565.295	29	S	9	981.467	491.237
3228.651	1614.829	30	V	8	894.435	447.721
3359.692	1680.350	31	M	7	795.367	398.187
3474.719	1737.863	32	D	6	664.326	332.667

controllerType=0 controllerNumber=1 scan=16537



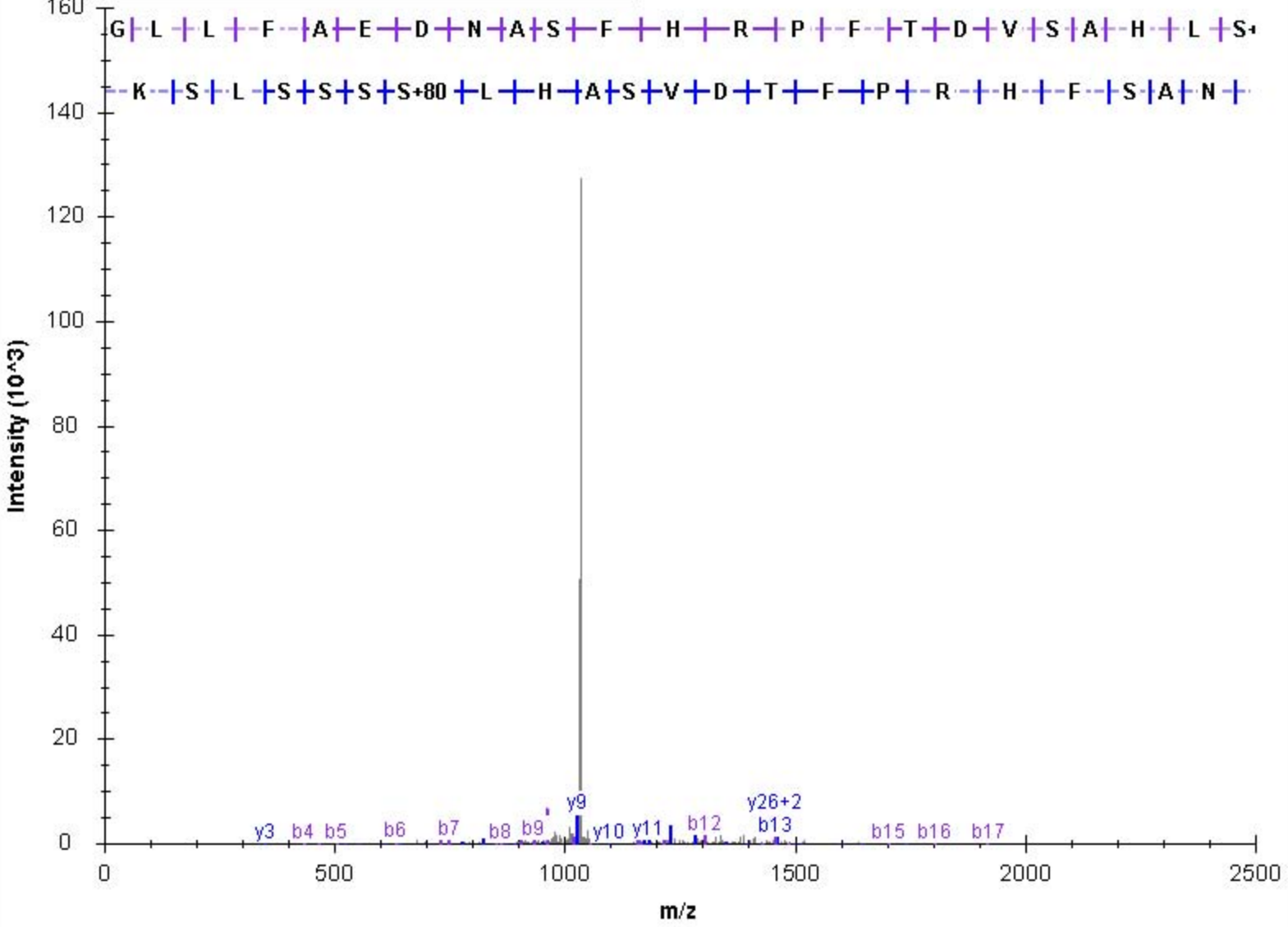
b	b(+2)				y	y(+2)
115.050	58.029	1	N	15	1717.744	859.375
246.091	123.549	2	M	14	1603.701	802.354
303.112	152.060	3	G	13	1472.660	736.834
402.181	201.594	4	V	12	1415.639	708.323
489.213	245.110	5	S	11	1316.570	658.789
618.255	309.631	6	E	10	1229.538	615.273
785.287	393.147	7	S	9	1100.496	550.751
900.314	450.661	8	D	8	933.464	467.235
971.351	486.179	9	A	7	818.437	409.722
1099.446	550.227	10	K	6	747.400	374.203
1214.473	607.740	11	D	5	619.305	310.156
1301.505	651.256	12	S	4	504.278	252.642
1414.589	707.798	13	L	3	417.246	209.126
1543.632	772.320	14	E	2	304.162	152.584
1699.733	850.370	15	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11495



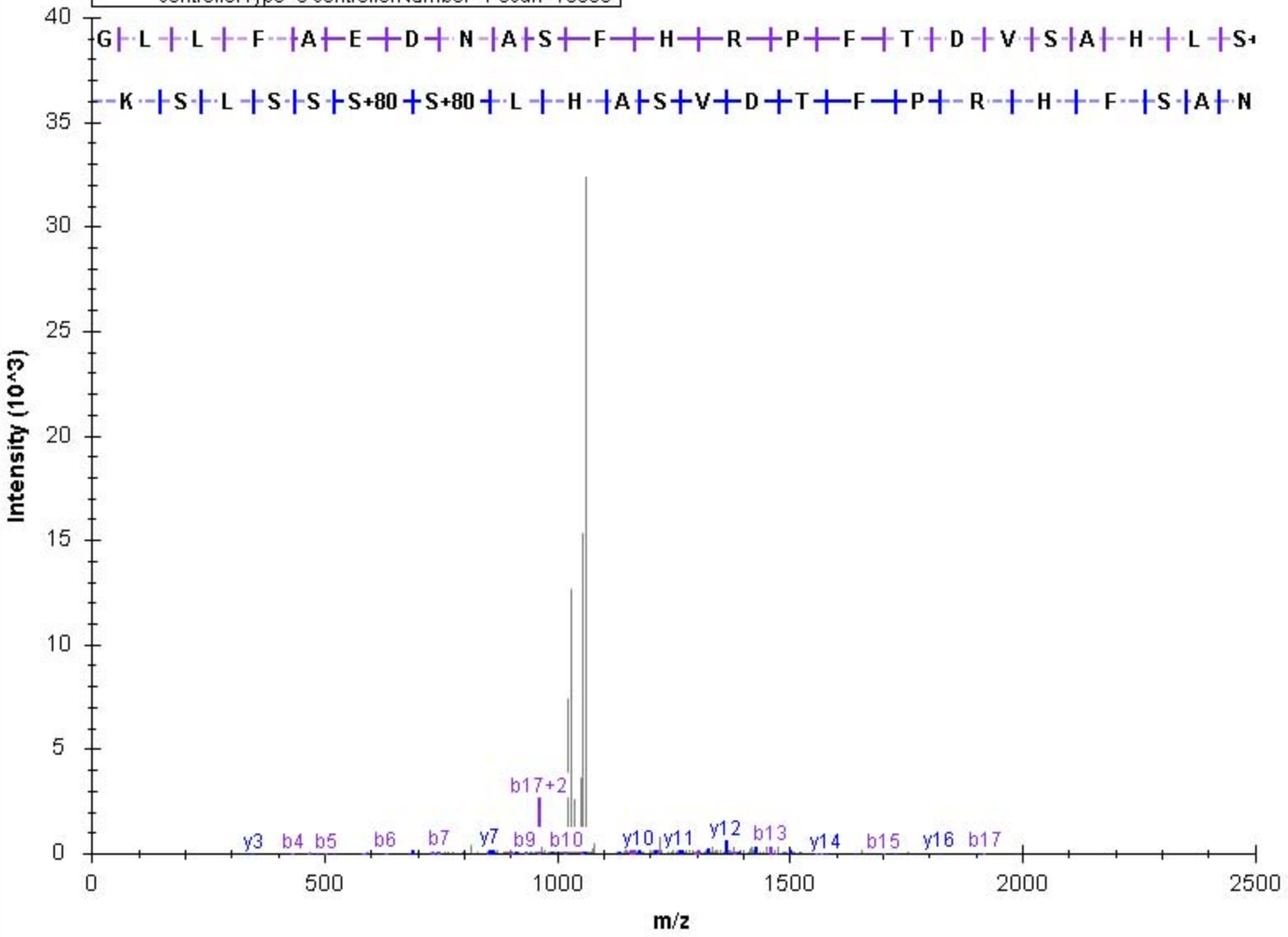
b	b(+2)			y	y(+2)	
58.029	29.518	1	G	29	3200.539	1600.773
171.113	86.060	2	L	28	3143.517	1572.262
284.197	142.602	3	L	27	3030.433	1515.720
431.265	216.136	4	F	26	2917.349	1459.178
502.302	251.655	5	A	25	2770.280	1385.644
631.345	316.176	6	E	24	2699.243	1350.125
746.372	373.690	7	D	23	2570.201	1285.604
860.415	430.711	8	N	22	2455.174	1228.091
931.452	466.230	9	A	21	2341.131	1171.069
1018.484	509.746	10	S	20	2270.094	1135.551
1165.552	583.280	11	F	19	2183.062	1092.035
1302.611	651.809	12	H	18	2035.993	1018.500
1458.712	729.860	13	R	17	1898.934	949.971
1555.765	778.386	14	P	16	1742.833	871.920
1702.834	851.920	15	F	15	1645.781	823.394
1803.881	902.444	16	T	14	1498.712	749.860
1918.908	959.958	17	D	13	1397.664	699.336
2017.977	1009.492	18	V	12	1282.638	641.822
2105.009	1053.008	19	S	11	1183.569	592.288
2176.046	1088.527	20	A	10	1096.537	548.772
2313.105	1157.056	21	H	9	1025.500	513.254
2426.189	1213.598	22	L	8	888.441	444.724
2593.221	1297.114	23	S	7	775.357	388.182
2680.253	1340.630	24	S	6	608.325	304.666
2767.285	1384.146	25	S	5	521.293	261.150
2854.317	1427.662	26	S	4	434.261	217.634
2967.401	1484.204	27	L	3	347.229	174.118
3054.433	1527.720	28	S	2	234.145	117.576
3182.528	1591.768	29	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=12648



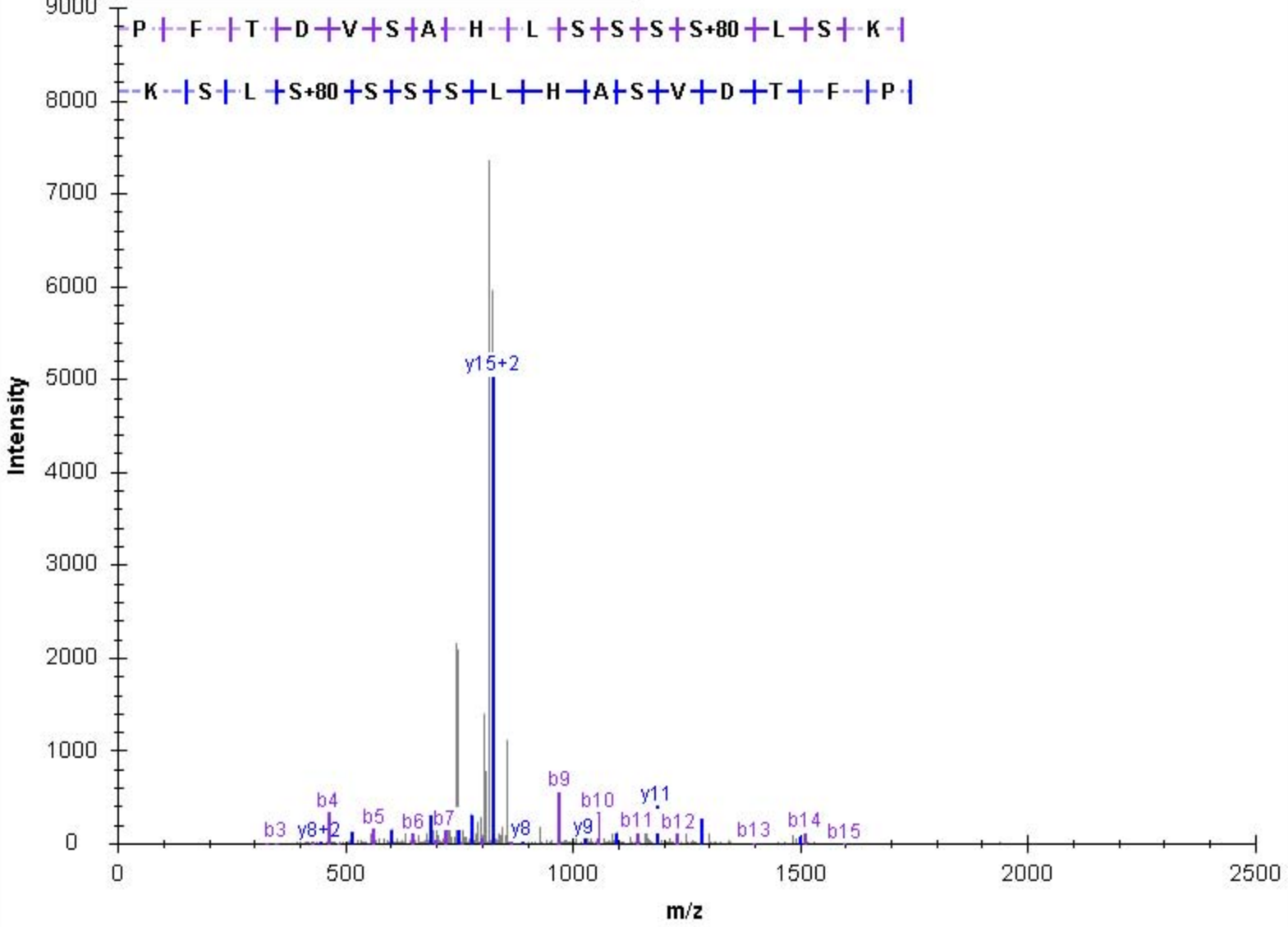
b	b(+2)			y	y(+2)	
58.029	29.518	1	G	29	3280.539	1640.773
171.113	86.060	2	L	28	3223.517	1612.262
284.197	142.602	3	L	27	3110.433	1555.720
431.265	216.136	4	F	26	2997.349	1499.178
502.302	251.655	5	A	25	2850.280	1425.644
631.345	316.176	6	E	24	2779.243	1390.125
746.372	373.690	7	D	23	2650.201	1325.604
860.415	430.711	8	N	22	2535.174	1268.091
931.452	466.230	9	A	21	2421.131	1211.069
1018.484	509.746	10	S	20	2350.094	1175.551
1165.552	583.280	11	F	19	2263.062	1132.035
1302.611	651.809	12	H	18	2115.993	1058.500
1458.712	729.860	13	R	17	1978.934	989.971
1555.765	778.386	14	P	16	1822.833	911.920
1702.834	851.920	15	F	15	1725.781	863.394
1803.881	902.444	16	T	14	1578.712	789.860
1918.908	959.958	17	D	13	1477.664	739.336
2017.977	1009.492	18	V	12	1362.638	681.822
2105.009	1053.008	19	S	11	1263.569	632.288
2176.046	1088.527	20	A	10	1176.537	588.772
2313.105	1157.056	21	H	9	1105.500	553.254
2426.189	1213.598	22	L	8	968.441	484.724
2593.221	1297.114	23	S	7	855.357	428.182
2760.253	1380.630	24	S	6	688.325	344.666
2847.285	1424.146	25	S	5	521.293	261.150
2934.317	1467.662	26	S	4	434.261	217.634
3047.401	1524.204	27	L	3	347.229	174.118
3134.433	1567.720	28	S	2	234.145	117.576
3262.528	1631.768	29	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=13030



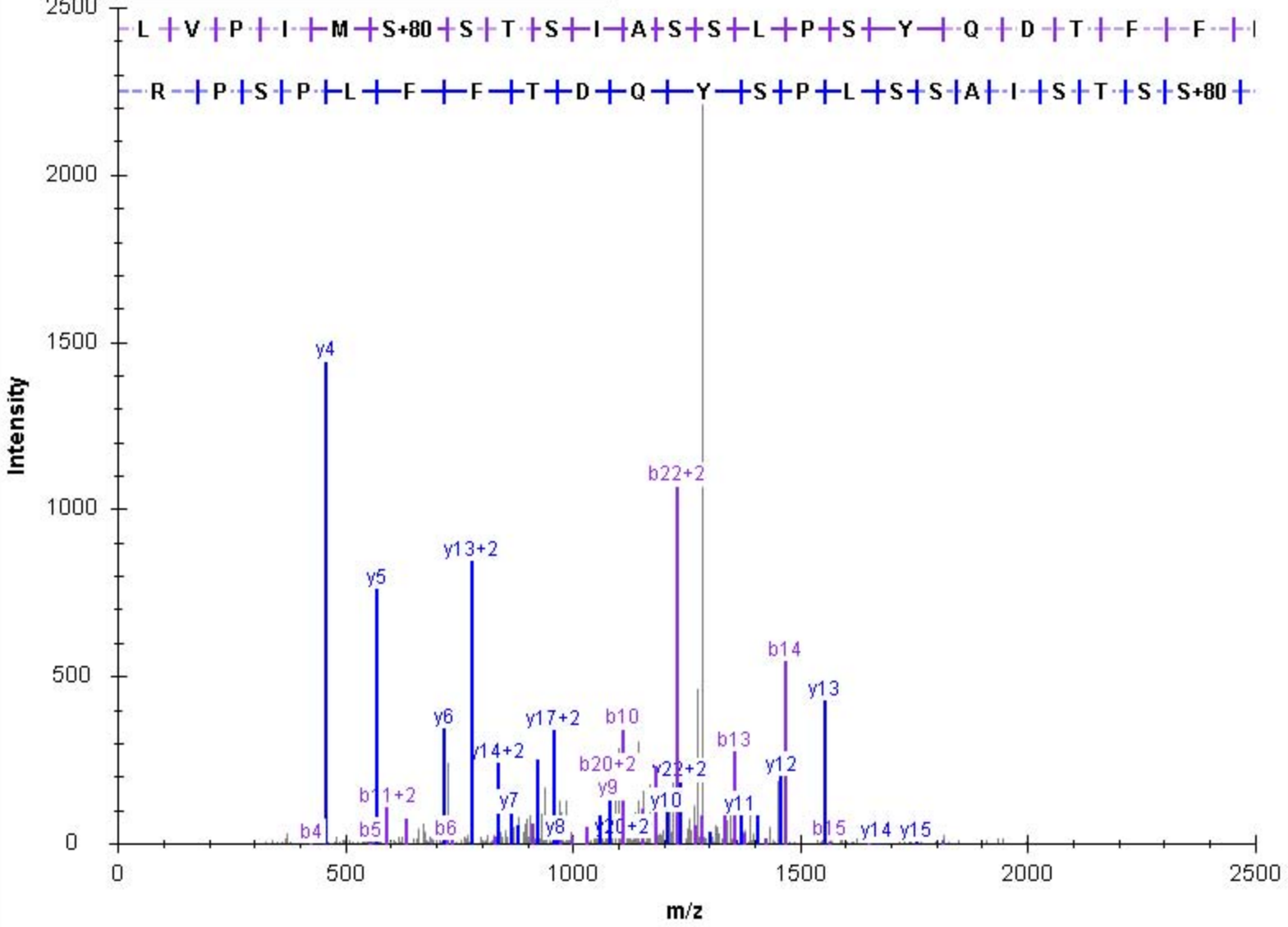
b	b(+2)				y	y(+2)
98.060	49.534	1	P	16	1742.833	871.920
245.128	123.068	2	F	15	1645.781	823.394
346.176	173.592	3	T	14	1498.712	749.860
461.203	231.105	4	D	13	1397.664	699.336
560.271	280.639	5	V	12	1282.638	641.822
647.304	324.155	6	S	11	1183.569	592.288
718.341	359.674	7	A	10	1096.537	548.772
855.400	428.203	8	H	9	1025.500	513.254
968.484	484.745	9	L	8	888.441	444.724
1055.516	528.261	10	S	7	775.357	388.182
1142.548	571.777	11	S	6	688.325	344.666
1229.580	615.293	12	S	5	601.293	301.150
1396.612	698.809	13	S	4	514.261	257.634
1509.696	755.352	14	L	3	347.229	174.118
1596.728	798.868	15	S	2	234.145	117.576
1724.823	862.915	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9550



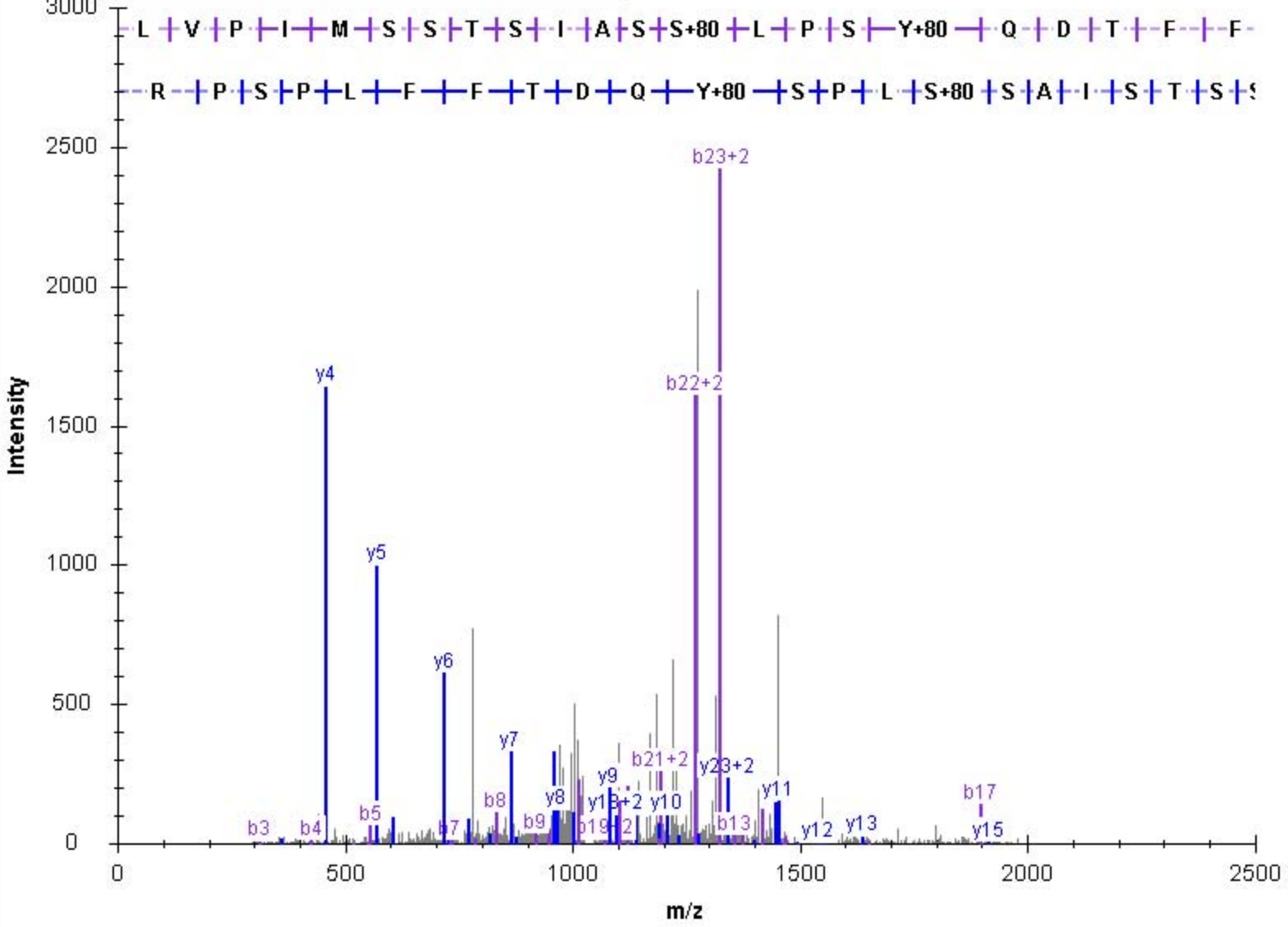
b	b(+2)			y	y(+2)	
114.091	57.549	1	L	27	3021.502	1511.254
213.160	107.084	2	V	26	2908.418	1454.712
310.213	155.610	3	P	25	2809.349	1405.178
423.297	212.152	4	I	24	2712.296	1356.652
554.337	277.672	5	M	23	2599.212	1300.110
721.369	361.188	6	S	22	2468.172	1234.590
808.401	404.704	7	S	21	2301.140	1151.074
909.449	455.228	8	T	20	2214.108	1107.558
996.481	498.744	9	S	19	2113.060	1057.034
1109.565	555.286	10	I	18	2026.028	1013.518
1180.602	590.805	11	A	17	1912.944	956.976
1267.634	634.321	12	S	16	1841.907	921.457
1354.666	677.837	13	S	15	1754.875	877.941
1467.750	734.379	14	L	14	1667.843	834.425
1564.803	782.905	15	P	13	1554.759	777.883
1651.835	826.421	16	S	12	1457.706	729.357
1814.898	907.953	17	Y	11	1370.674	685.841
1942.957	971.982	18	Q	10	1207.611	604.309
2057.984	1029.496	19	D	9	1079.552	540.280
2159.031	1080.019	20	T	8	964.525	482.766
2306.100	1153.554	21	F	7	863.477	432.242
2453.168	1227.088	22	F	6	716.409	358.708
2566.252	1283.630	23	L	5	569.341	285.174
2663.305	1332.156	24	P	4	456.257	228.632
2750.337	1375.672	25	S	3	359.204	180.106
2847.390	1424.199	26	P	2	272.172	136.589
3003.491	1502.249	27	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=12



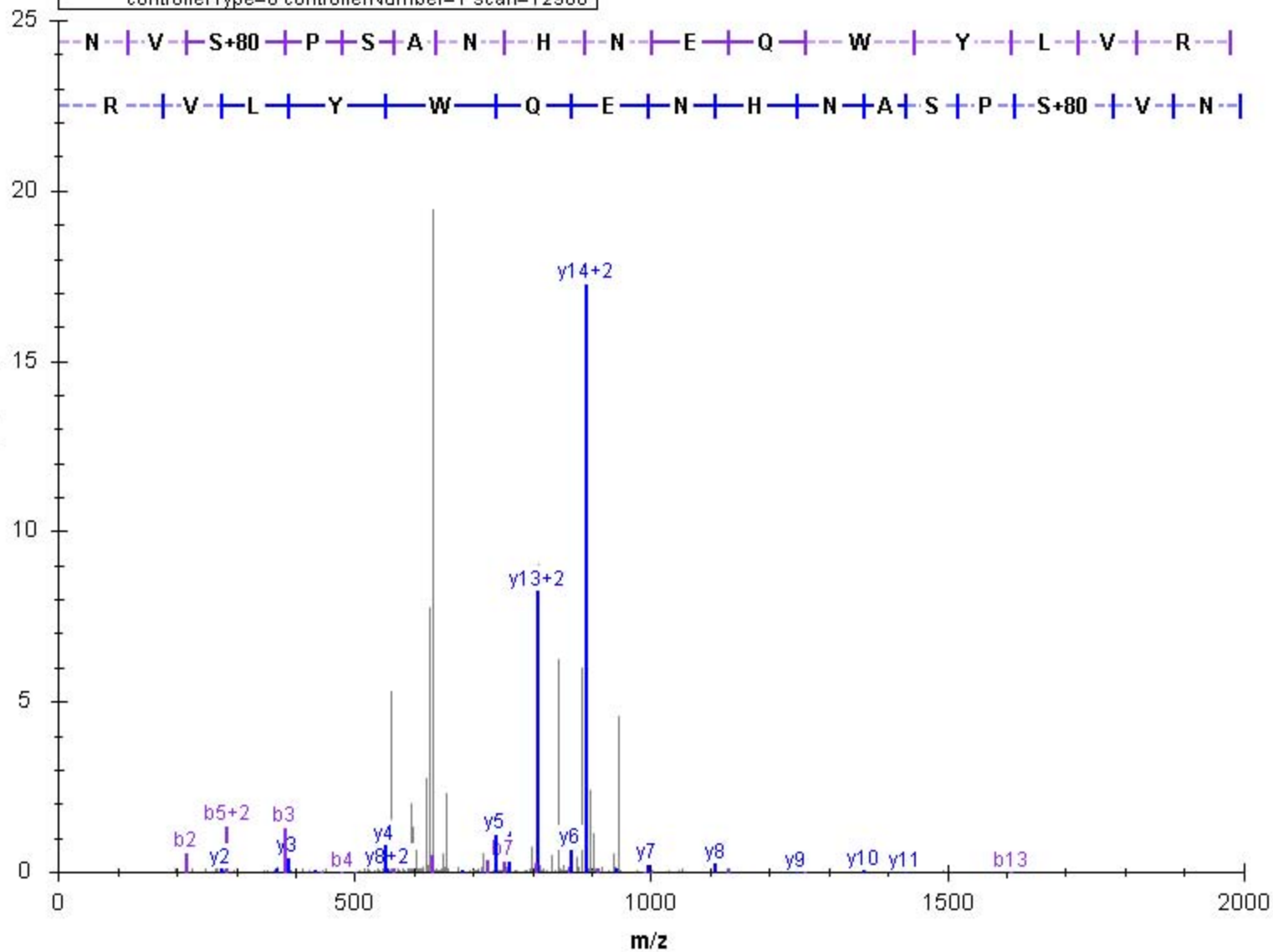
b	b(+2)			y	y(+2)	
114.091	57.549	1	L	27	3101.502	1551.254
213.160	107.084	2	V	26	2988.418	1494.712
310.213	155.610	3	P	25	2889.349	1445.178
423.297	212.152	4	I	24	2792.296	1396.652
554.337	277.672	5	M	23	2679.212	1340.110
641.369	321.188	6	S	22	2548.172	1274.590
728.401	364.704	7	S	21	2461.140	1231.074
829.449	415.228	8	T	20	2374.108	1187.558
916.481	458.744	9	S	19	2273.060	1137.034
1029.565	515.286	10	I	18	2186.028	1093.518
1100.602	550.805	11	A	17	2072.944	1036.976
1187.634	594.321	12	S	16	2001.907	1001.457
1354.666	677.837	13	S	15	1914.875	957.941
1467.750	734.379	14	L	14	1747.843	874.425
1564.803	782.905	15	P	13	1634.759	817.883
1651.835	826.421	16	S	12	1537.706	769.357
1894.898	947.953	17	Y	11	1450.674	725.841
2022.957	1011.982	18	Q	10	1207.611	604.309
2137.984	1069.496	19	D	9	1079.552	540.280
2239.031	1120.019	20	T	8	964.525	482.766
2386.100	1193.554	21	F	7	863.477	432.242
2533.168	1267.088	22	F	6	716.409	358.708
2646.252	1323.630	23	L	5	569.341	285.174
2743.305	1372.156	24	P	4	456.257	228.632
2830.337	1415.672	25	S	3	359.204	180.106
2927.390	1464.199	26	P	2	272.172	136.589
3083.491	1542.249	27	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=144



b	b(+2)				y	y(+2)
115.050	58.029	1	N	16	1993.925	997.466
214.119	107.563	2	V	15	1879.882	940.445
381.151	191.079	3	S	14	1780.814	890.911
478.203	239.605	4	P	13	1613.782	807.395
565.235	283.121	5	S	12	1516.729	758.868
636.273	318.640	6	A	11	1429.697	715.352
750.315	375.661	7	N	10	1358.660	679.834
887.374	444.191	8	H	9	1244.617	622.812
1001.417	501.212	9	N	8	1107.558	554.283
1130.460	565.734	10	E	7	993.515	497.261
1258.518	629.763	11	Q	6	864.473	432.740
1444.598	722.803	12	W	5	736.414	368.711
1607.661	804.334	13	Y	4	550.335	275.671
1720.745	860.876	14	L	3	387.271	194.139
1819.814	910.410	15	V	2	274.187	137.597
1975.915	988.461	16	R	1	175.119	88.063

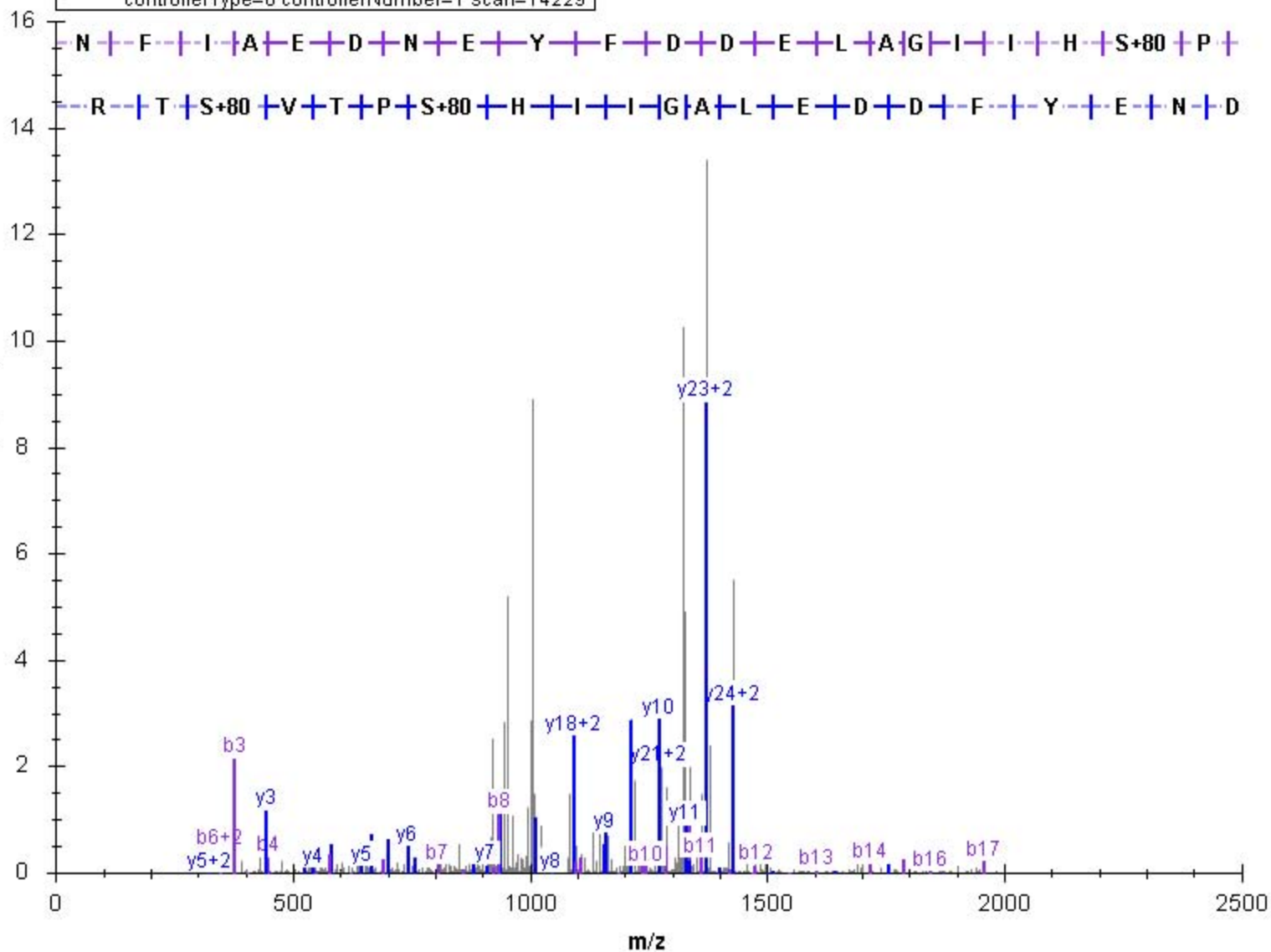
controllerType=0 controllerNumber=1 scan=12968



b	b(+2)			y	y(+2)	
115.050	58.029	1	N	26	3113.385	1557.196
262.119	131.563	2	F	25	2999.342	1500.175
375.203	188.105	3	I	24	2852.274	1426.640
446.240	223.624	4	A	23	2739.190	1370.098
575.282	288.145	5	E	22	2668.153	1334.580
690.309	345.658	6	D	21	2539.110	1270.059
804.352	402.680	7	N	20	2424.083	1212.545
933.395	467.201	8	E	19	2310.040	1155.524
1096.458	548.733	9	Y	18	2180.997	1091.002
1243.527	622.267	10	F	17	2017.934	1009.471
1358.554	679.780	11	D	16	1870.866	935.936
1473.580	737.294	12	D	15	1755.839	878.423
1602.623	801.815	13	E	14	1640.812	820.910
1715.707	858.357	14	L	13	1511.769	756.388
1786.744	893.876	15	A	12	1398.685	699.846
1843.766	922.386	16	G	11	1327.648	664.328
1956.850	978.929	17	I	10	1270.627	635.817
2069.934	1035.471	18	I	9	1157.543	579.275
2206.993	1104.000	19	H	8	1044.458	522.733
2374.025	1187.516	20	S	7	907.400	454.203
2471.078	1236.042	21	P	6	740.368	370.687
2572.125	1286.566	22	T	5	643.315	322.161
2671.194	1336.100	23	V	4	542.267	271.637
2838.226	1419.616	24	S	3	443.199	222.103
2939.273	1470.140	25	T	2	276.167	138.587
3095.374	1548.191	26	R	1	175.119	88.063

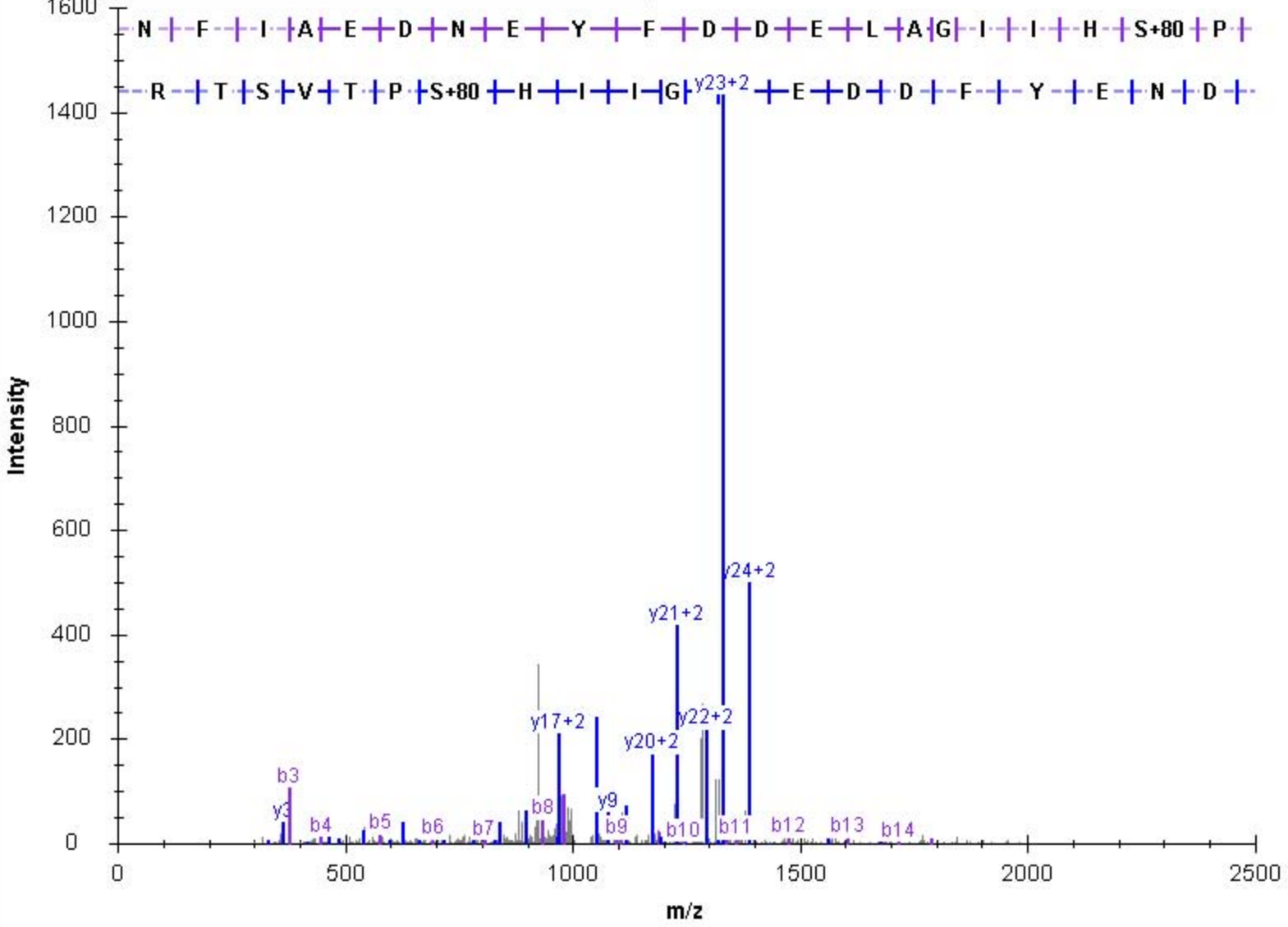
controllerType=0 controllerNumber=1 scan=14229

Intensity (10³)



b	b(+2)			y	y(+2)	
115.050	58.029	1	N	26	3033.385	1517.196
262.119	131.563	2	F	25	2919.342	1460.175
375.203	188.105	3	I	24	2772.274	1386.640
446.240	223.624	4	A	23	2659.190	1330.098
575.282	288.145	5	E	22	2588.153	1294.580
690.309	345.658	6	D	21	2459.110	1230.059
804.352	402.680	7	N	20	2344.083	1172.545
933.395	467.201	8	E	19	2230.040	1115.524
1096.458	548.733	9	Y	18	2100.997	1051.002
1243.527	622.267	10	F	17	1937.934	969.471
1358.554	679.780	11	D	16	1790.866	895.936
1473.580	737.294	12	D	15	1675.839	838.423
1602.623	801.815	13	E	14	1560.812	780.910
1715.707	858.357	14	L	13	1431.769	716.388
1786.744	893.876	15	A	12	1318.685	659.846
1843.766	922.386	16	G	11	1247.648	624.328
1956.850	978.929	17	I	10	1190.627	595.817
2069.934	1035.471	18	I	9	1077.543	539.275
2206.993	1104.000	19	H	8	964.458	482.733
2374.025	1187.516	20	S	7	827.400	414.203
2471.078	1236.042	21	P	6	660.368	330.687
2572.125	1286.566	22	T	5	563.315	282.161
2671.194	1336.100	23	V	4	462.267	231.637
2758.226	1379.616	24	S	3	363.199	182.103
2859.273	1430.140	25	T	2	276.167	138.587
3015.374	1508.191	26	R	1	175.119	88.063

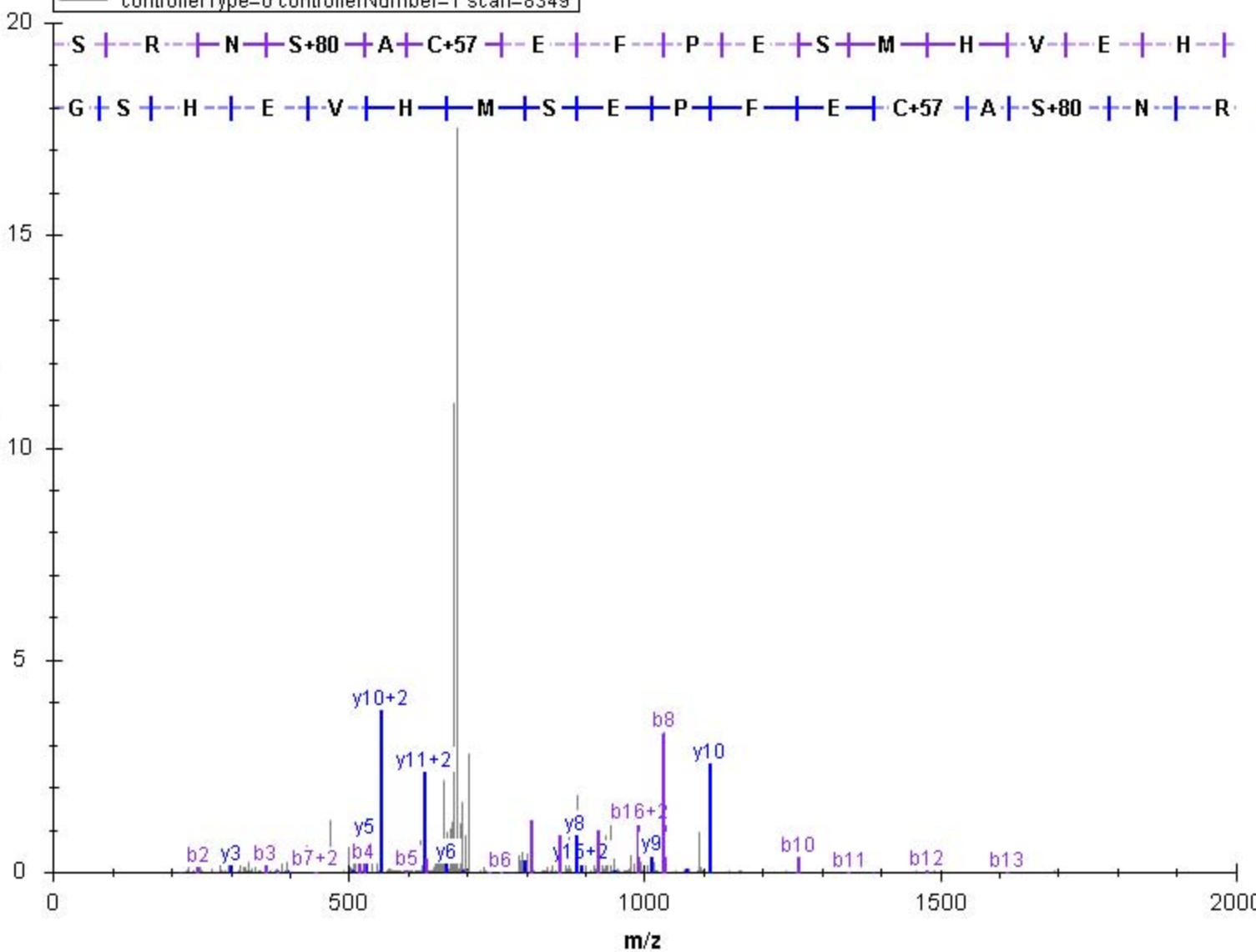
controllerType=0 controllerNumber=1 scan=15558



b	b(+2)			y	y(+2)	
88.039	44.523	1	S	18	2140.833	1070.920
244.140	122.574	2	R	17	2053.801	1027.404
358.183	179.595	3	N	16	1897.700	949.354
525.215	263.111	4	S	15	1783.657	892.332
596.252	298.630	5	A	14	1616.625	808.816
756.262	378.634	6	C	13	1545.588	773.298
885.304	443.156	7	E	12	1385.579	693.293
1032.373	516.690	8	F	11	1256.536	628.772
1129.425	565.216	9	P	10	1109.468	555.238
1258.468	629.738	10	E	9	1012.415	506.711
1345.500	673.254	11	S	8	883.373	442.190
1476.541	738.774	12	M	7	796.341	398.674
1613.599	807.303	13	H	6	665.300	333.154
1712.668	856.838	14	V	5	528.241	264.624
1841.710	921.359	15	E	4	429.173	215.090
1978.769	989.888	16	H	3	300.130	150.569
2065.801	1033.404	17	S	2	163.071	82.039
2122.823	1061.915	18	G	1	76.039	38.523

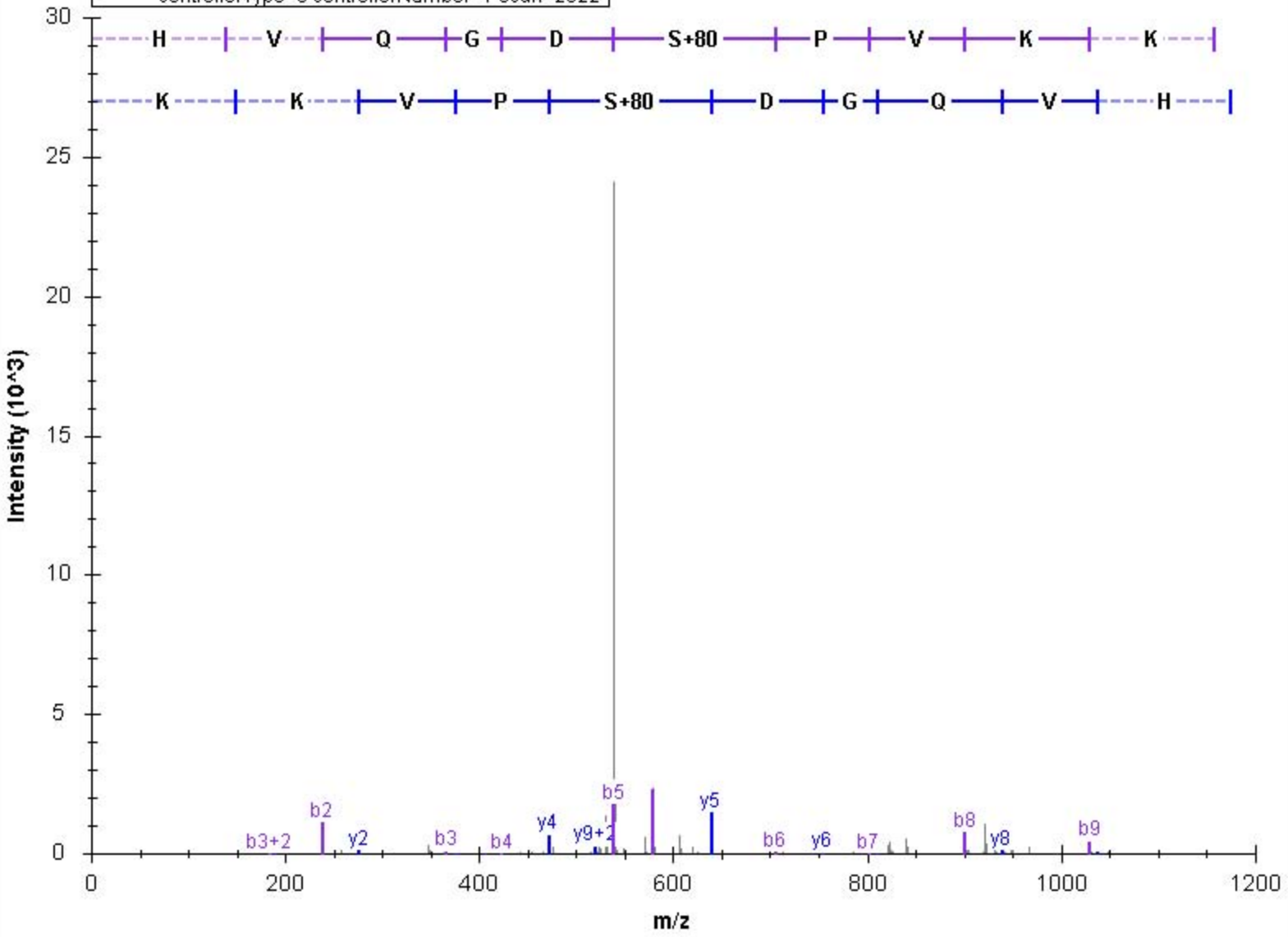
controllerType=0 controllerNumber=1 scan=8349

Intensity (10³)



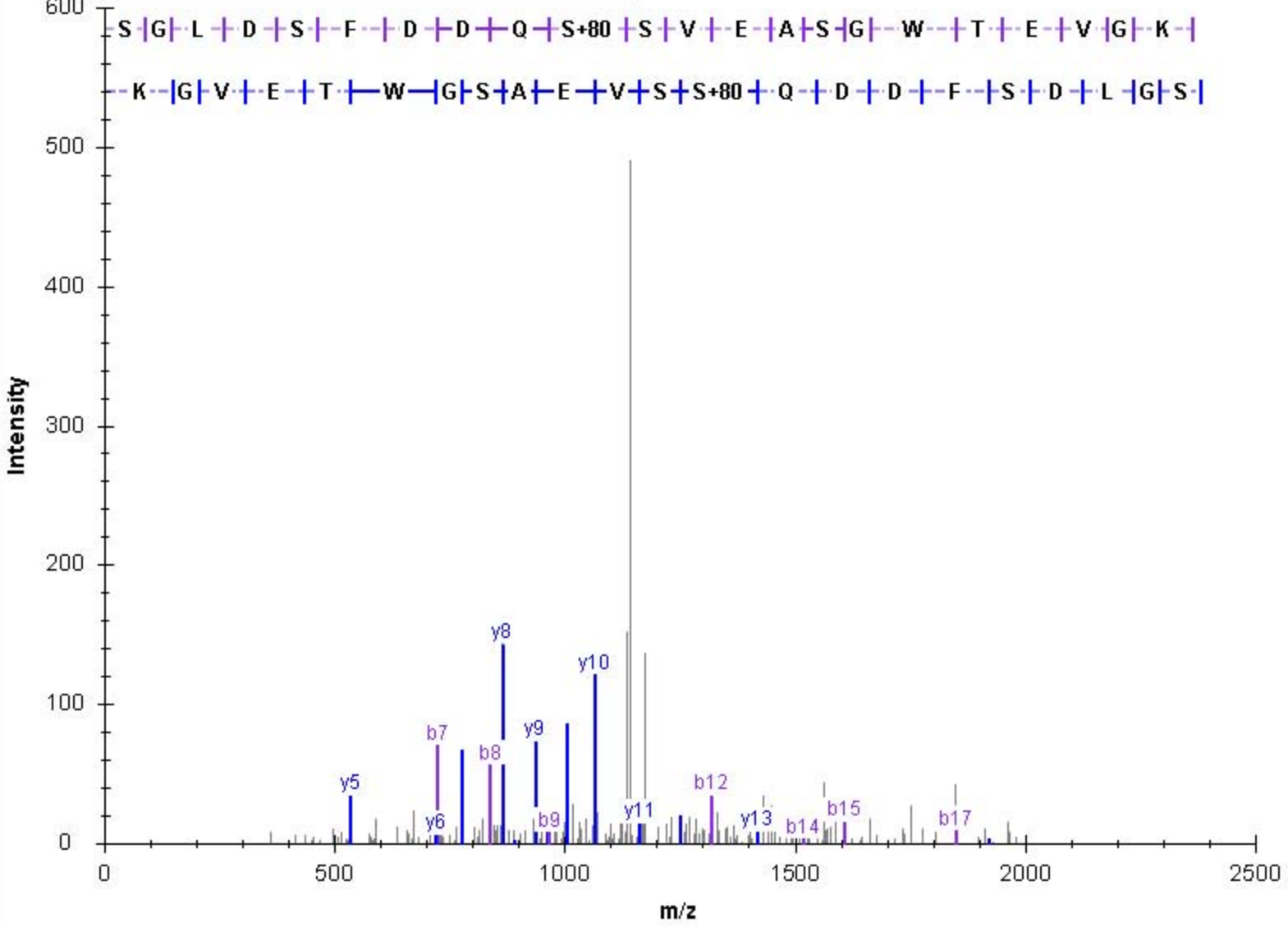
b	b(+2)				y	y(+2)
138.066	69.537	1	H	10	1174.595	587.801
237.135	119.071	2	V	9	1037.536	519.272
365.193	183.100	3	Q	8	938.468	469.738
422.215	211.611	4	G	7	810.409	405.708
537.242	269.124	5	D	6	753.388	377.198
704.274	352.640	6	S	5	638.361	319.684
801.326	401.167	7	P	4	471.329	236.168
900.395	450.701	8	V	3	374.276	187.642
1028.490	514.749	9	K	2	275.208	138.108
1156.585	578.796	10	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=2522



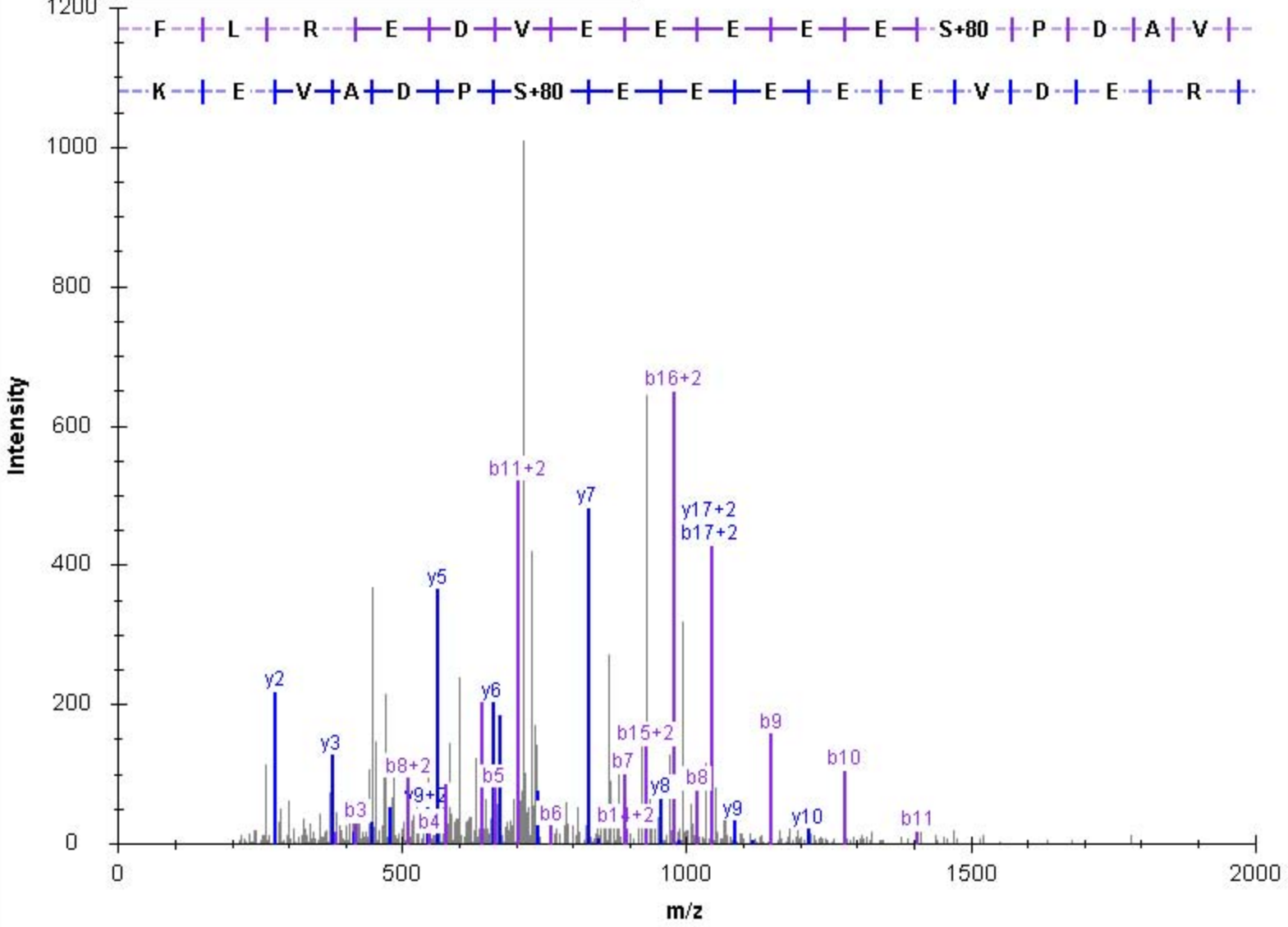
b	b(+2)				y	y(+2)
88.039	44.523	1	S	22	2381.015	1191.011
145.061	73.034	2	G	21	2293.983	1147.495
258.145	129.576	3	L	20	2236.962	1118.985
373.172	187.090	4	D	19	2123.878	1062.443
460.204	230.606	5	S	18	2008.851	1004.929
607.272	304.140	6	F	17	1921.819	961.413
722.299	361.653	7	D	16	1774.750	887.879
837.326	419.167	8	D	15	1659.723	830.365
965.385	483.196	9	Q	14	1544.697	772.852
1132.417	566.712	10	S	13	1416.638	708.823
1219.449	610.228	11	S	12	1249.606	625.307
1318.517	659.762	12	V	11	1162.574	581.791
1447.560	724.284	13	E	10	1063.505	532.256
1518.597	759.802	14	A	9	934.463	467.735
1605.629	803.318	15	S	8	863.426	432.217
1662.650	831.829	16	G	7	776.394	388.701
1848.730	924.868	17	W	6	719.372	360.190
1949.777	975.392	18	T	5	533.293	267.150
2078.820	1039.914	19	E	4	432.245	216.626
2177.888	1089.448	20	V	3	303.203	152.105
2234.910	1117.959	21	G	2	204.134	102.571
2363.005	1182.006	22	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11316



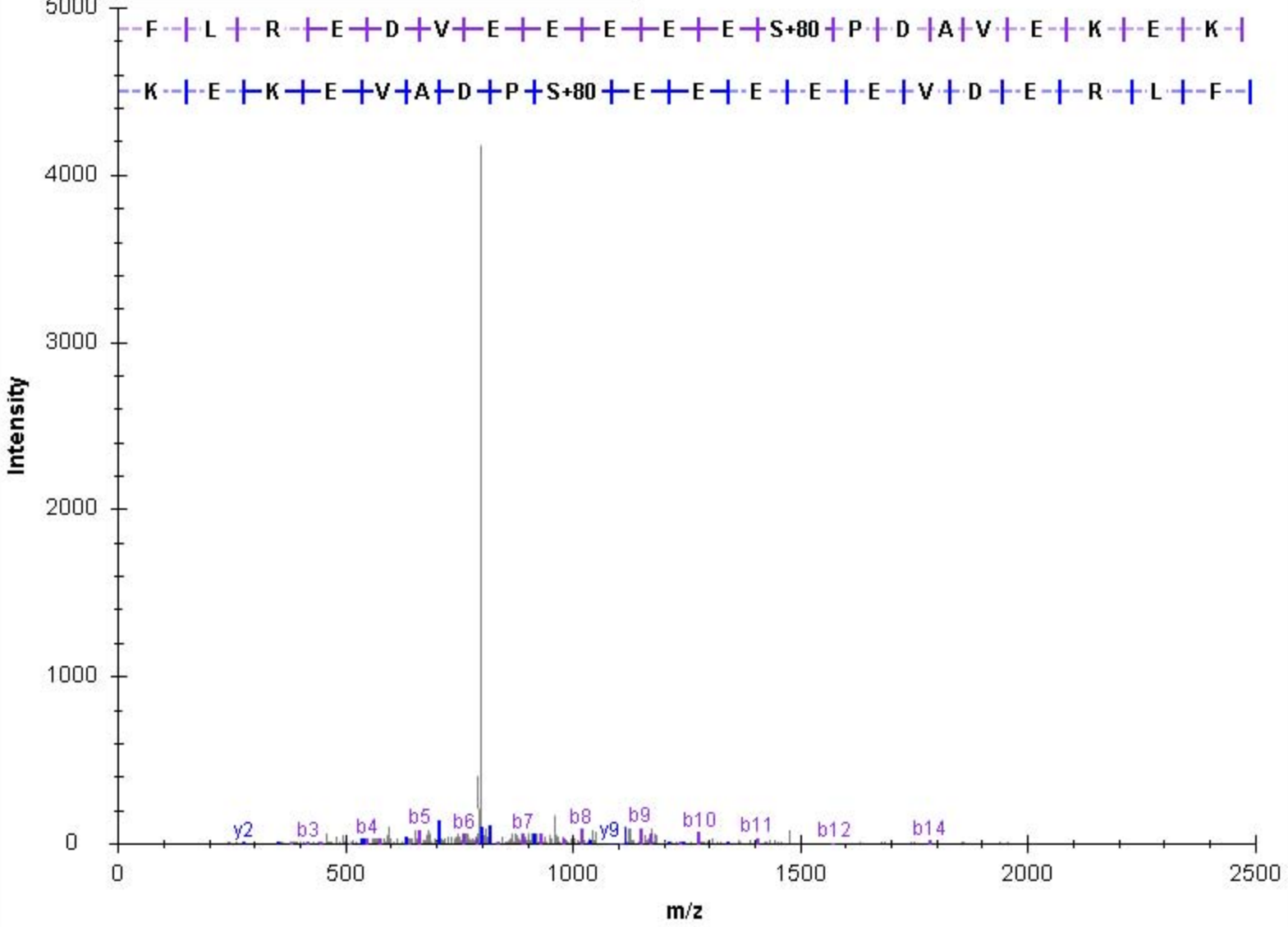
b	b(+2)				y	y(+2)
148.076	74.541	1	F	18	2229.977	1115.492
261.160	131.084	2	L	17	2082.909	1041.958
417.261	209.134	3	R	16	1969.825	985.416
546.303	273.655	4	E	15	1813.724	907.365
661.330	331.169	5	D	14	1684.681	842.844
760.399	380.703	6	V	13	1569.654	785.331
889.441	445.224	7	E	12	1470.586	735.796
1018.484	509.746	8	E	11	1341.543	671.275
1147.527	574.267	9	E	10	1212.500	606.754
1276.569	638.788	10	E	9	1083.458	542.233
1405.612	703.310	11	E	8	954.415	477.711
1572.644	786.826	12	S	7	825.373	413.190
1669.697	835.352	13	P	6	658.341	329.674
1784.724	892.865	14	D	5	561.288	281.148
1855.761	928.384	15	A	4	446.261	223.634
1954.829	977.918	16	V	3	375.224	188.116
2083.872	1042.439	17	E	2	276.155	138.581
2211.967	1106.487	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8060



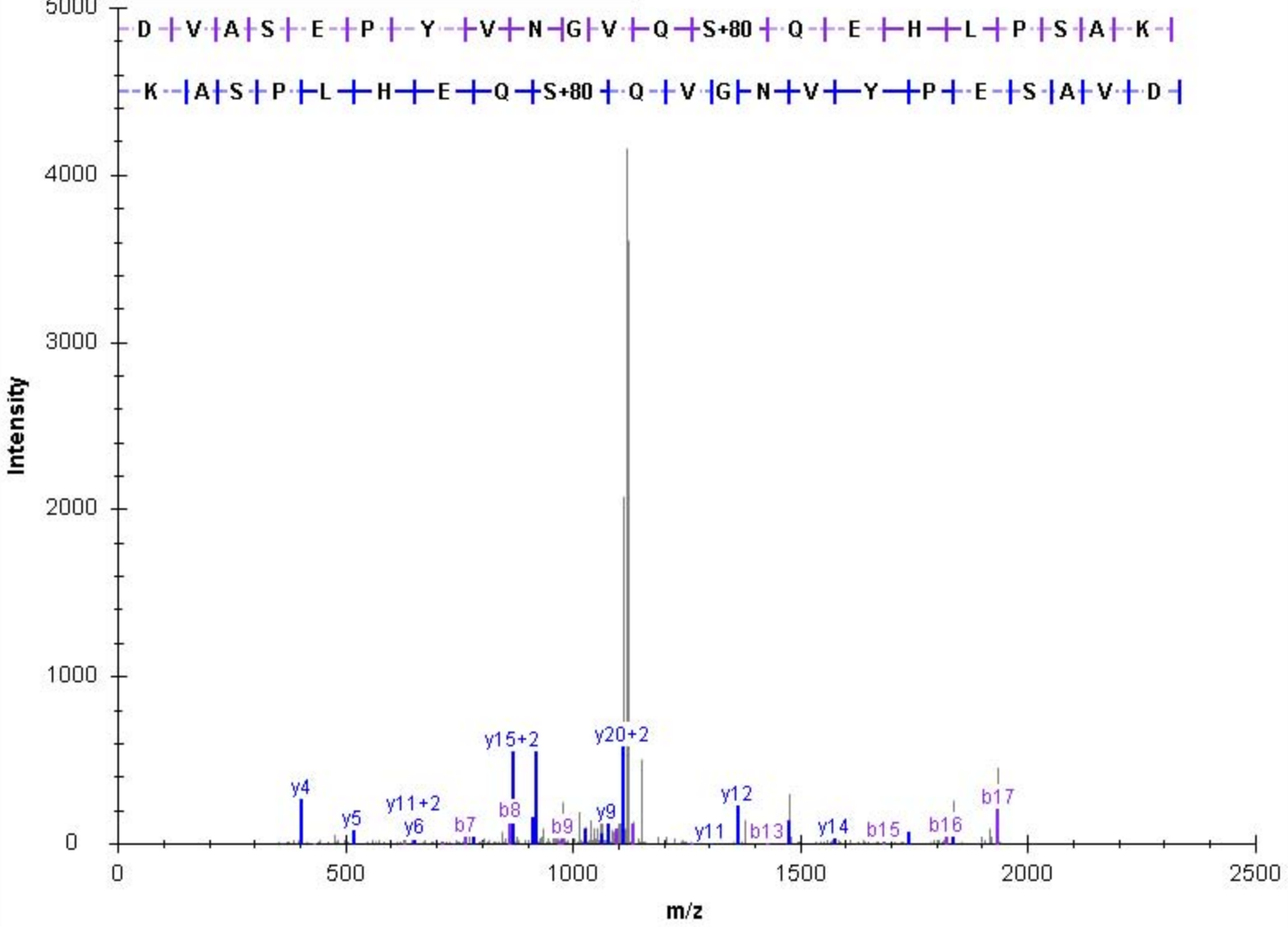
b	b(+2)			y	y(+2)	
148.076	74.541	1	F	20	2487.115	1244.061
261.160	131.084	2	L	19	2340.046	1170.527
417.261	209.134	3	R	18	2226.962	1113.985
546.303	273.655	4	E	17	2070.861	1035.934
661.330	331.169	5	D	16	1941.819	971.413
760.399	380.703	6	V	15	1826.792	913.899
889.441	445.224	7	E	14	1727.723	864.365
1018.484	509.746	8	E	13	1598.681	799.844
1147.527	574.267	9	E	12	1469.638	735.323
1276.569	638.788	10	E	11	1340.595	670.801
1405.612	703.310	11	E	10	1211.553	606.280
1572.644	786.826	12	S	9	1082.510	541.759
1669.697	835.352	13	P	8	915.478	458.243
1784.724	892.865	14	D	7	818.425	409.716
1855.761	928.384	15	A	6	703.398	352.203
1954.829	977.918	16	V	5	632.361	316.684
2083.872	1042.439	17	E	4	533.293	267.150
2211.967	1106.487	18	K	3	404.250	202.629
2341.009	1171.008	19	E	2	276.155	138.581
2469.104	1235.056	20	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8395



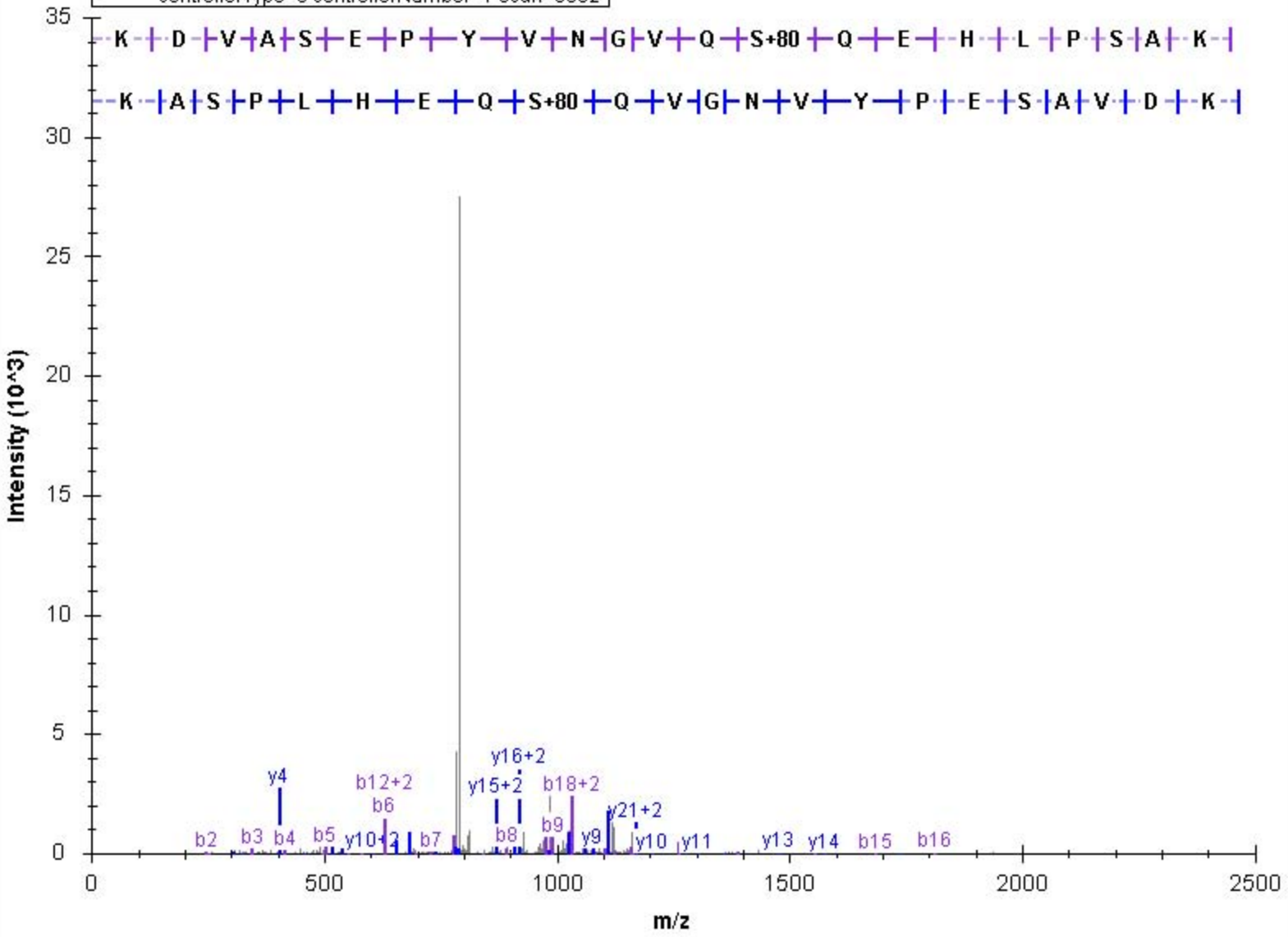
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	21	2335.094	1168.051
215.103	108.055	2	V	20	2220.067	1110.537
286.140	143.574	3	A	19	2120.999	1061.003
373.172	187.090	4	S	18	2049.961	1025.484
502.214	251.611	5	E	17	1962.929	981.968
599.267	300.137	6	P	16	1833.887	917.447
762.330	381.669	7	Y	15	1736.834	868.921
861.399	431.203	8	V	14	1573.771	787.389
975.442	488.225	9	N	13	1474.702	737.855
1032.463	516.735	10	G	12	1360.659	680.833
1131.532	566.269	11	V	11	1303.638	652.323
1259.590	630.299	12	Q	10	1204.569	602.788
1426.622	713.815	13	S	9	1076.511	538.759
1554.681	777.844	14	Q	8	909.479	455.243
1683.723	842.365	15	E	7	781.420	391.214
1820.782	910.895	16	H	6	652.378	326.692
1933.866	967.437	17	L	5	515.319	258.163
2030.919	1015.963	18	P	4	402.235	201.621
2117.951	1059.479	19	S	3	305.182	153.095
2188.988	1094.998	20	A	2	218.150	109.579
2317.083	1159.045	21	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8646



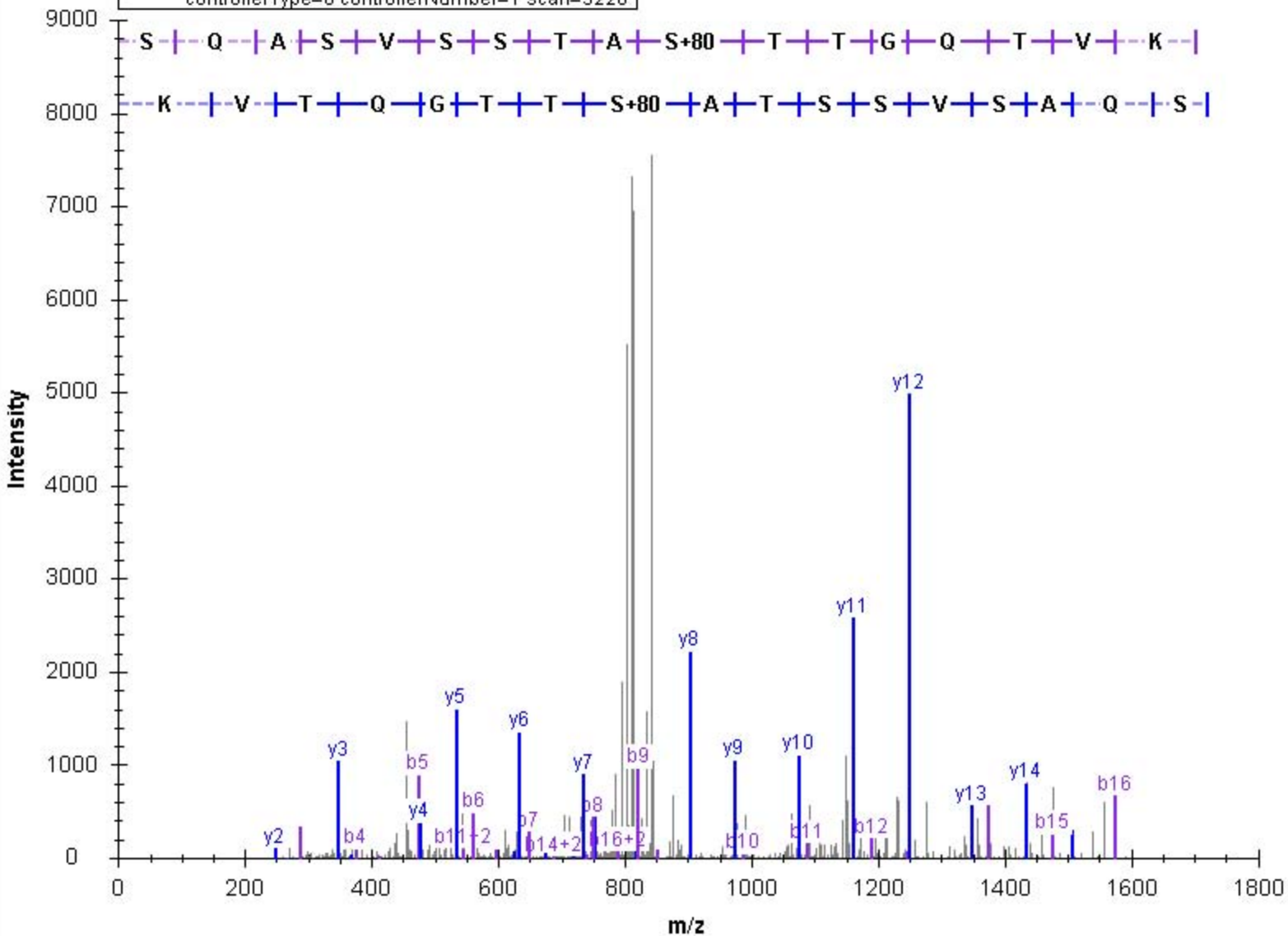
b	b(+2)				y	y(+2)
129.102	65.055	1	K	22	2463.189	1232.098
244.129	122.568	2	D	21	2335.094	1168.051
343.198	172.102	3	V	20	2220.067	1110.537
414.235	207.621	4	A	19	2120.999	1061.003
501.267	251.137	5	S	18	2049.961	1025.484
630.309	315.658	6	E	17	1962.929	981.968
727.362	364.185	7	P	16	1833.887	917.447
890.425	445.716	8	Y	15	1736.834	868.921
989.494	495.251	9	V	14	1573.771	787.389
1103.537	552.272	10	N	13	1474.702	737.855
1160.558	580.783	11	G	12	1360.659	680.833
1259.627	630.317	12	V	11	1303.638	652.323
1387.685	694.346	13	Q	10	1204.569	602.788
1554.717	777.862	14	S	9	1076.511	538.759
1682.776	841.892	15	Q	8	909.479	455.243
1811.818	906.413	16	E	7	781.420	391.214
1948.877	974.942	17	H	6	652.378	326.692
2061.961	1031.484	18	L	5	515.319	258.163
2159.014	1080.011	19	P	4	402.235	201.621
2246.046	1123.527	20	S	3	305.182	153.095
2317.083	1159.045	21	A	2	218.150	109.579
2445.178	1223.093	22	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8362



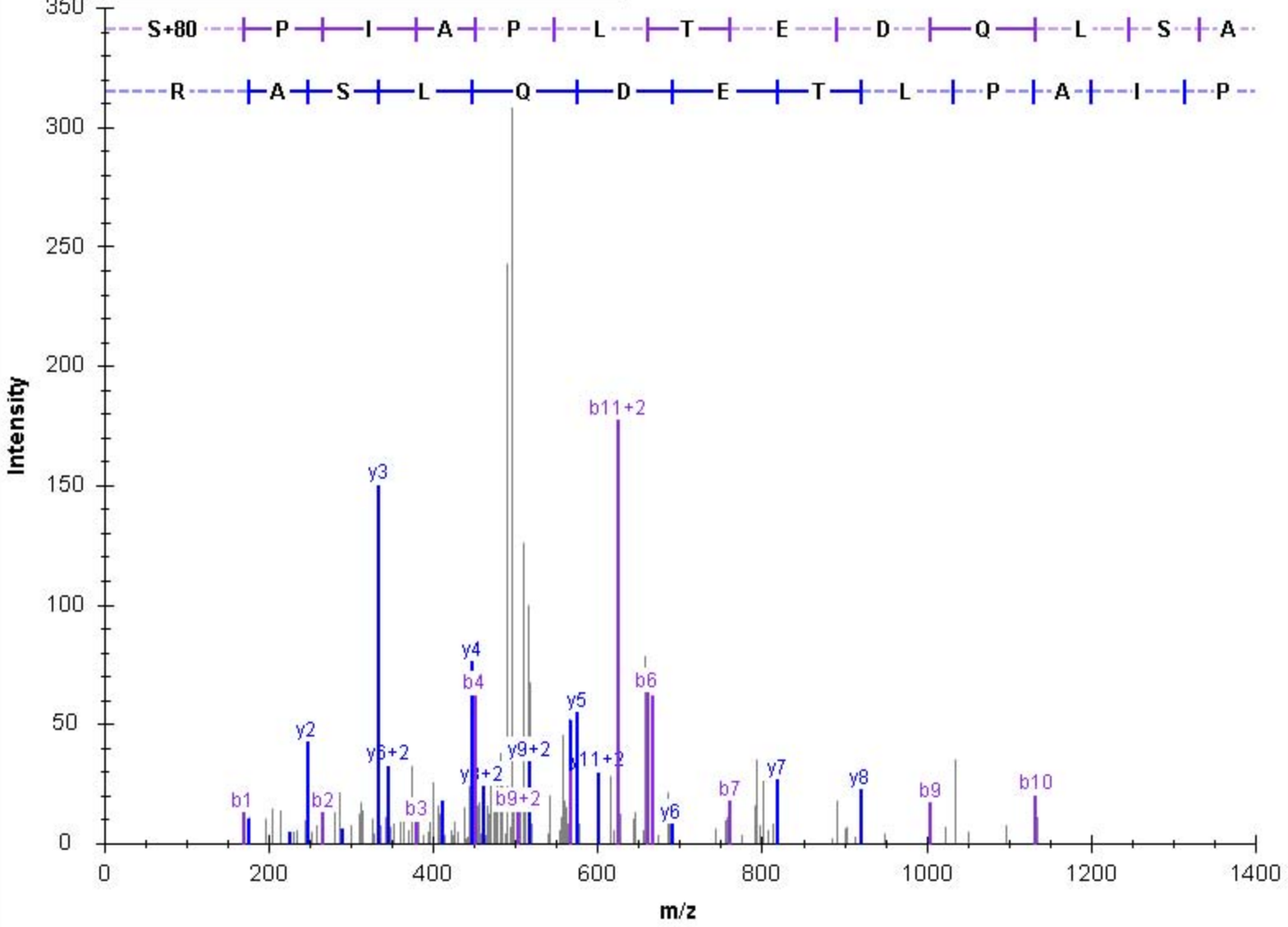
b	b(+2)				y	y(+2)
88.039	44.523	1	S	17	1719.813	860.410
216.098	108.553	2	Q	16	1632.781	816.894
287.135	144.071	3	A	15	1504.723	752.865
374.167	187.587	4	S	14	1433.686	717.346
473.235	237.121	5	V	13	1346.654	673.830
560.267	280.637	6	S	12	1247.585	624.296
647.299	324.153	7	S	11	1160.553	580.780
748.347	374.677	8	T	10	1073.521	537.264
819.384	410.196	9	A	9	972.473	486.740
986.416	493.712	10	S	8	901.436	451.222
1087.464	544.236	11	T	7	734.404	367.706
1188.512	594.759	12	T	6	633.357	317.182
1245.533	623.270	13	G	5	532.309	266.658
1373.592	687.299	14	Q	4	475.287	238.147
1474.639	737.823	15	T	3	347.229	174.118
1573.708	787.358	16	V	2	246.181	123.594
1701.803	851.405	17	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=3220



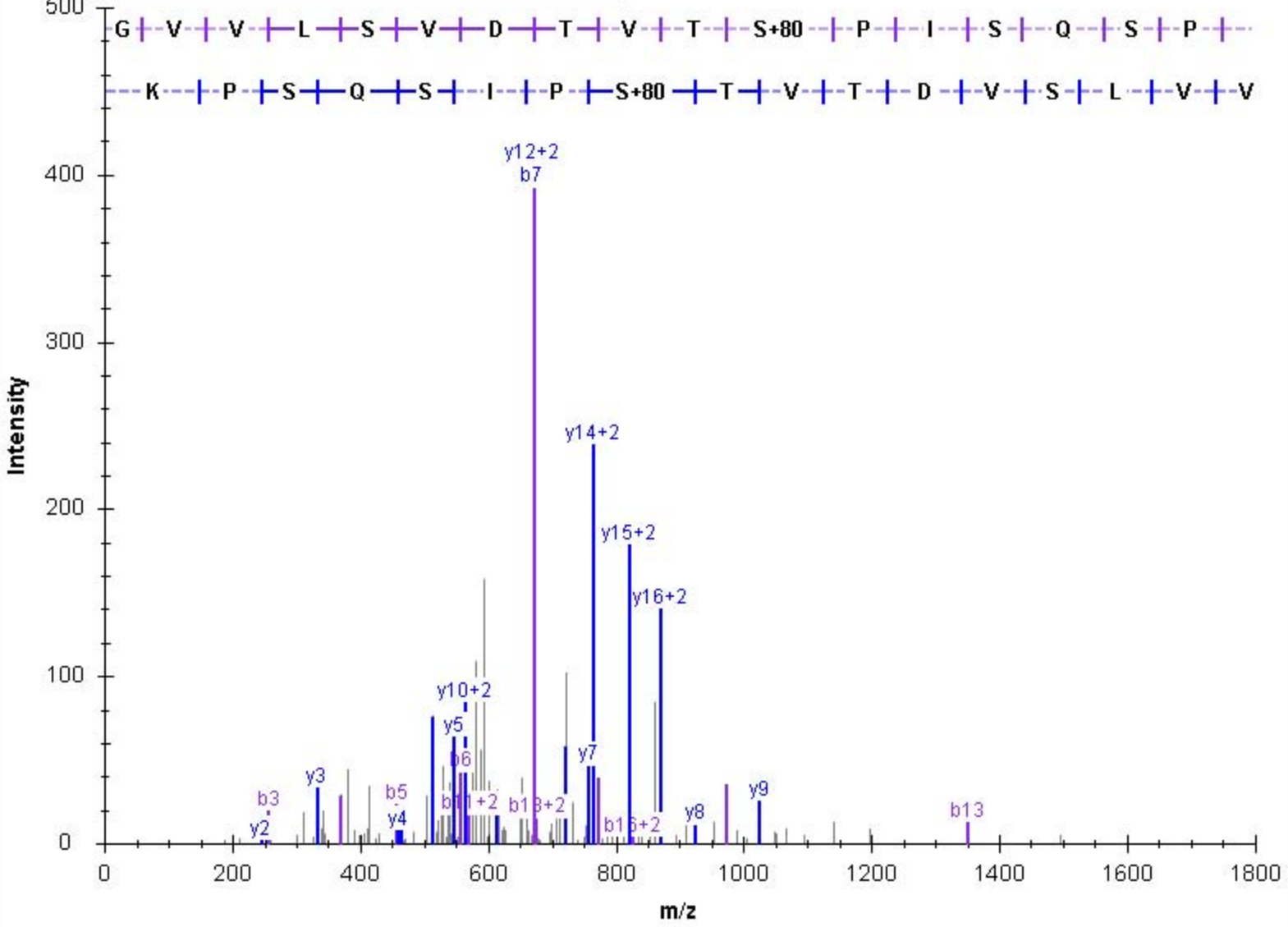
b	b(+2)			y	y(+2)
168.039	84.523	1	S	14	1577.791 789.399
265.092	133.050	2	P	13	1410.759 705.883
378.176	189.592	3	I	12	1313.706 657.357
449.213	225.110	4	A	11	1200.622 600.815
546.266	273.637	5	P	10	1129.585 565.296
659.350	330.179	6	L	9	1032.532 516.770
760.398	380.703	7	T	8	919.448 460.228
889.440	445.224	8	E	7	818.400 409.704
1004.467	502.737	9	D	6	689.358 345.182
1132.526	566.767	10	Q	5	574.331 287.669
1245.610	623.309	11	L	4	446.272 223.640
1332.642	666.825	12	S	3	333.188 167.098
1403.679	702.343	13	A	2	246.156 123.582
1559.780	780.394	14	R	1	175.119 88.063

controllerType=0 controllerNumber=1 scan=8347



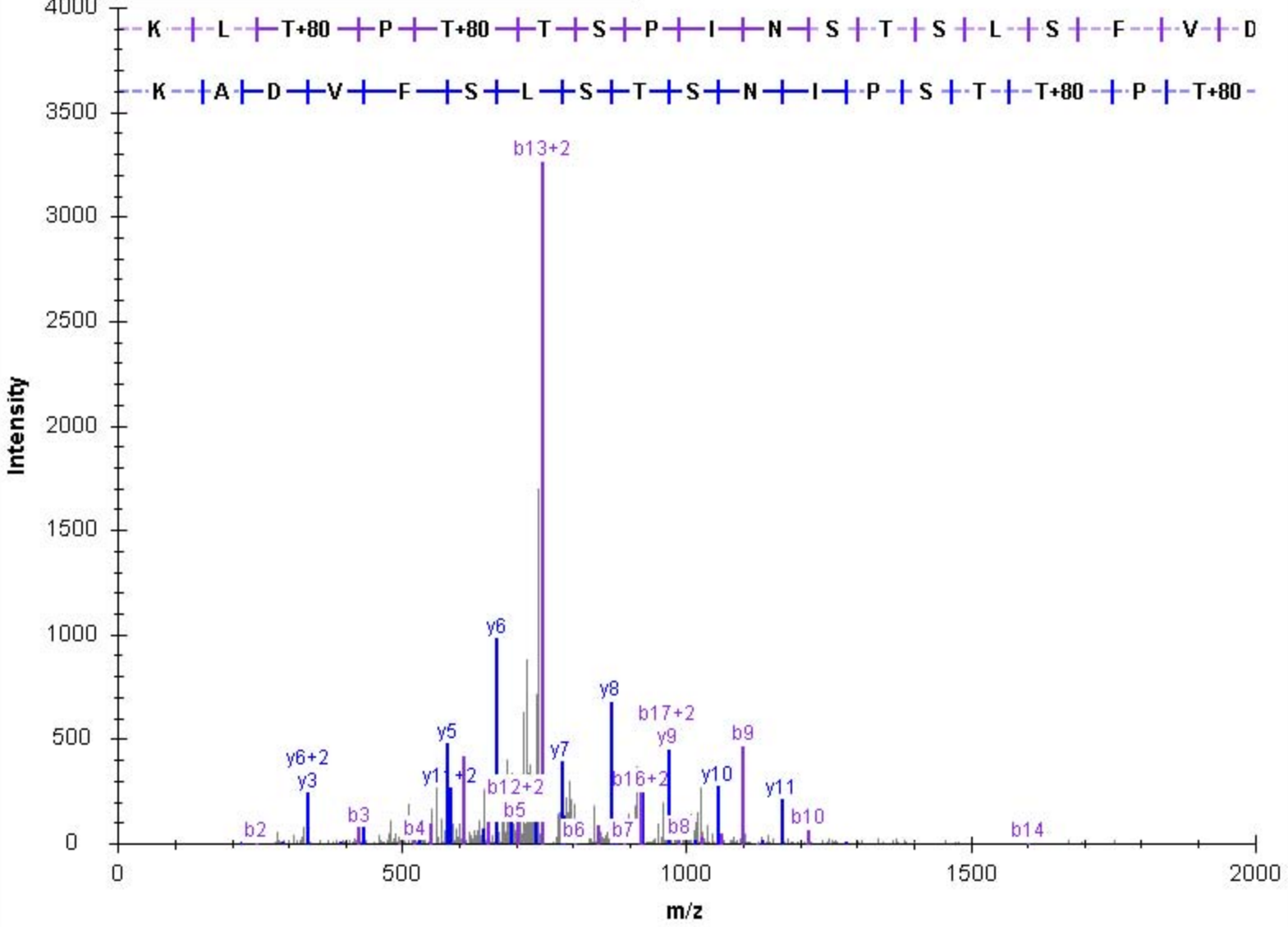
b	b(+2)				y	y(+2)
58.029	29.518	1	G	18	1893.991	947.499
157.097	79.052	2	V	17	1836.969	918.988
256.166	128.586	3	V	16	1737.901	869.454
369.250	185.128	4	L	15	1638.832	819.920
456.282	228.644	5	S	14	1525.748	763.378
555.350	278.179	6	V	13	1438.716	719.862
670.377	335.692	7	D	12	1339.648	670.328
771.425	386.216	8	T	11	1224.621	612.814
870.493	435.750	9	V	10	1123.573	562.290
971.541	486.274	10	T	9	1024.505	512.756
1138.573	569.790	11	S	8	923.457	462.232
1235.626	618.316	12	P	7	756.425	378.716
1348.710	674.858	13	I	6	659.372	330.190
1435.742	718.374	14	S	5	546.288	273.648
1563.800	782.404	15	Q	4	459.256	230.132
1650.832	825.920	16	S	3	331.198	166.102
1747.885	874.446	17	P	2	244.166	122.586
1875.980	938.494	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9339



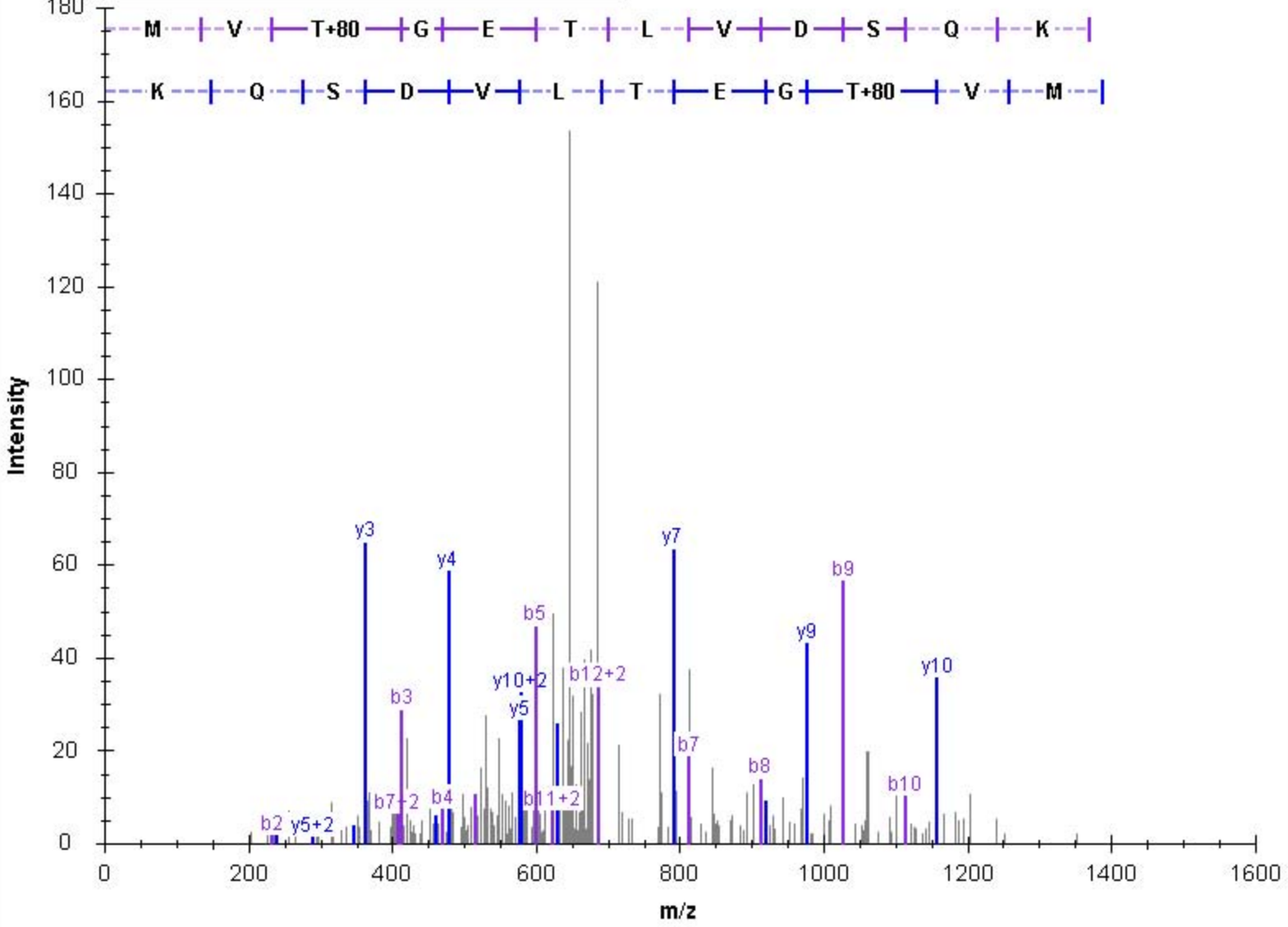
b	b(+2)			y	y(+2)	
129.102	65.055	1	K	20	2267.128	1134.068
242.186	121.597	2	L	19	2139.033	1070.020
423.234	212.121	3	T	18	2025.949	1013.478
520.287	260.647	4	P	17	1844.901	922.954
701.334	351.171	5	T	16	1747.849	874.428
802.382	401.695	6	T	15	1566.801	783.904
889.414	445.211	7	S	14	1465.753	733.380
986.467	493.737	8	P	13	1378.721	689.864
1099.551	550.279	9	I	12	1281.669	641.338
1213.594	607.301	10	N	11	1168.584	584.796
1300.626	650.817	11	S	10	1054.542	527.774
1401.674	701.340	12	T	9	967.509	484.258
1488.706	744.856	13	S	8	866.462	433.735
1601.790	801.398	14	L	7	779.430	390.219
1688.822	844.914	15	S	6	666.346	333.676
1835.890	918.449	16	F	5	579.314	290.160
1934.959	967.983	17	V	4	432.245	216.626
2049.985	1025.496	18	D	3	333.177	167.092
2121.023	1061.015	19	A	2	218.150	109.579
2249.118	1125.062	20	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8724



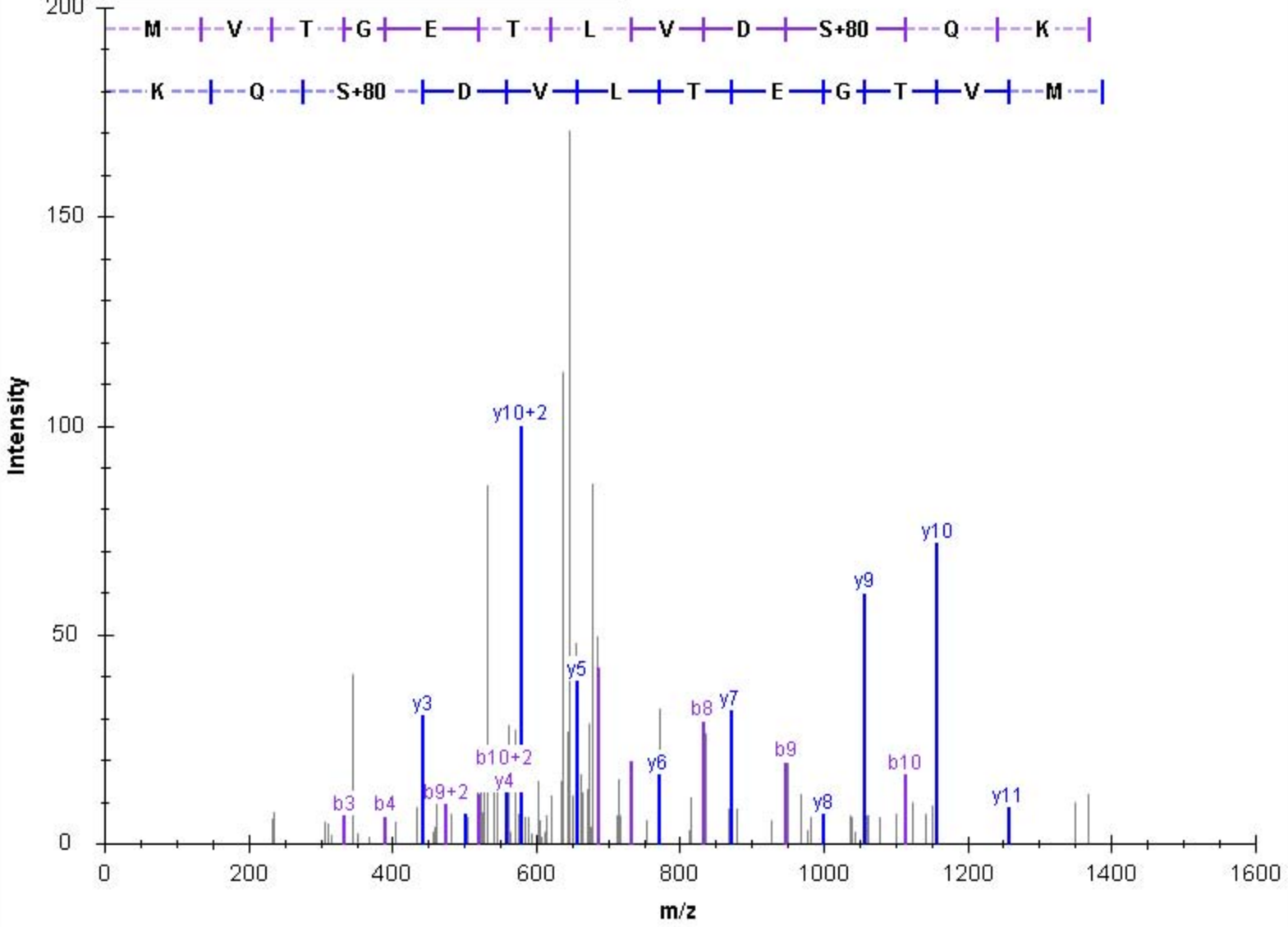
b	b(+2)				y	y(+2)
132.048	66.528	1	M	12	1387.651	694.329
231.116	116.062	2	V	11	1256.611	628.809
412.164	206.586	3	T	10	1157.542	579.275
469.185	235.096	4	G	9	976.495	488.751
598.228	299.618	5	E	8	919.473	460.240
699.276	350.141	6	T	7	790.431	395.719
812.360	406.683	7	L	6	689.383	345.195
911.428	456.218	8	V	5	576.299	288.653
1026.455	513.731	9	D	4	477.230	239.119
1113.487	557.247	10	S	3	362.203	181.605
1241.546	621.276	11	Q	2	275.171	138.089
1369.641	685.324	12	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8753



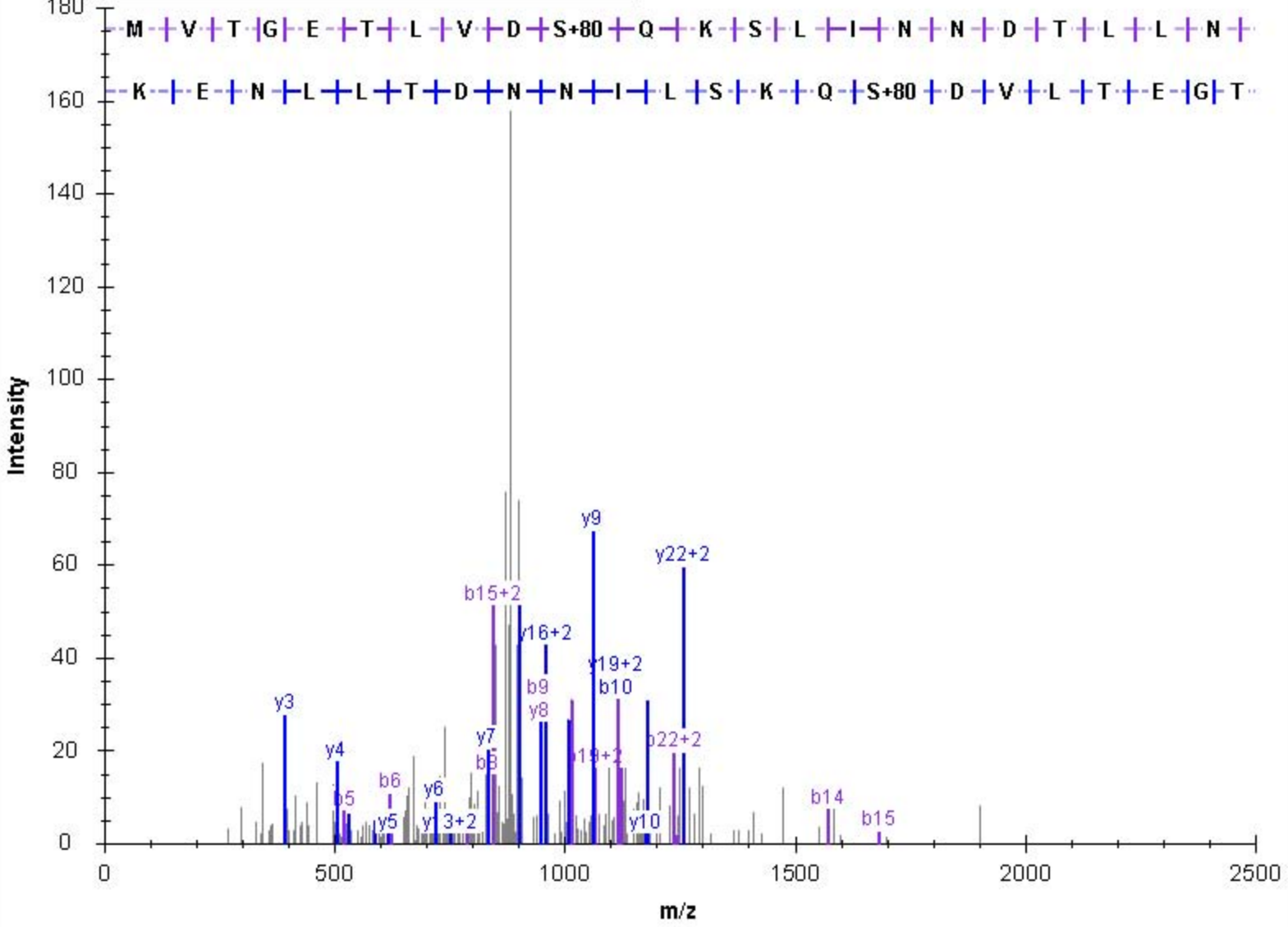
b	b(+2)				y	y(+2)
132.048	66.528	1	M	12	1387.651	694.329
231.116	116.062	2	V	11	1256.611	628.809
332.164	166.586	3	T	10	1157.542	579.275
389.185	195.096	4	G	9	1056.495	528.751
518.228	259.618	5	E	8	999.473	500.240
619.276	310.141	6	T	7	870.431	435.719
732.360	366.683	7	L	6	769.383	385.195
831.428	416.218	8	V	5	656.299	328.653
946.455	473.731	9	D	4	557.230	279.119
1113.487	557.247	10	S	3	442.203	221.605
1241.546	621.276	11	Q	2	275.171	138.089
1369.641	685.324	12	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=6153



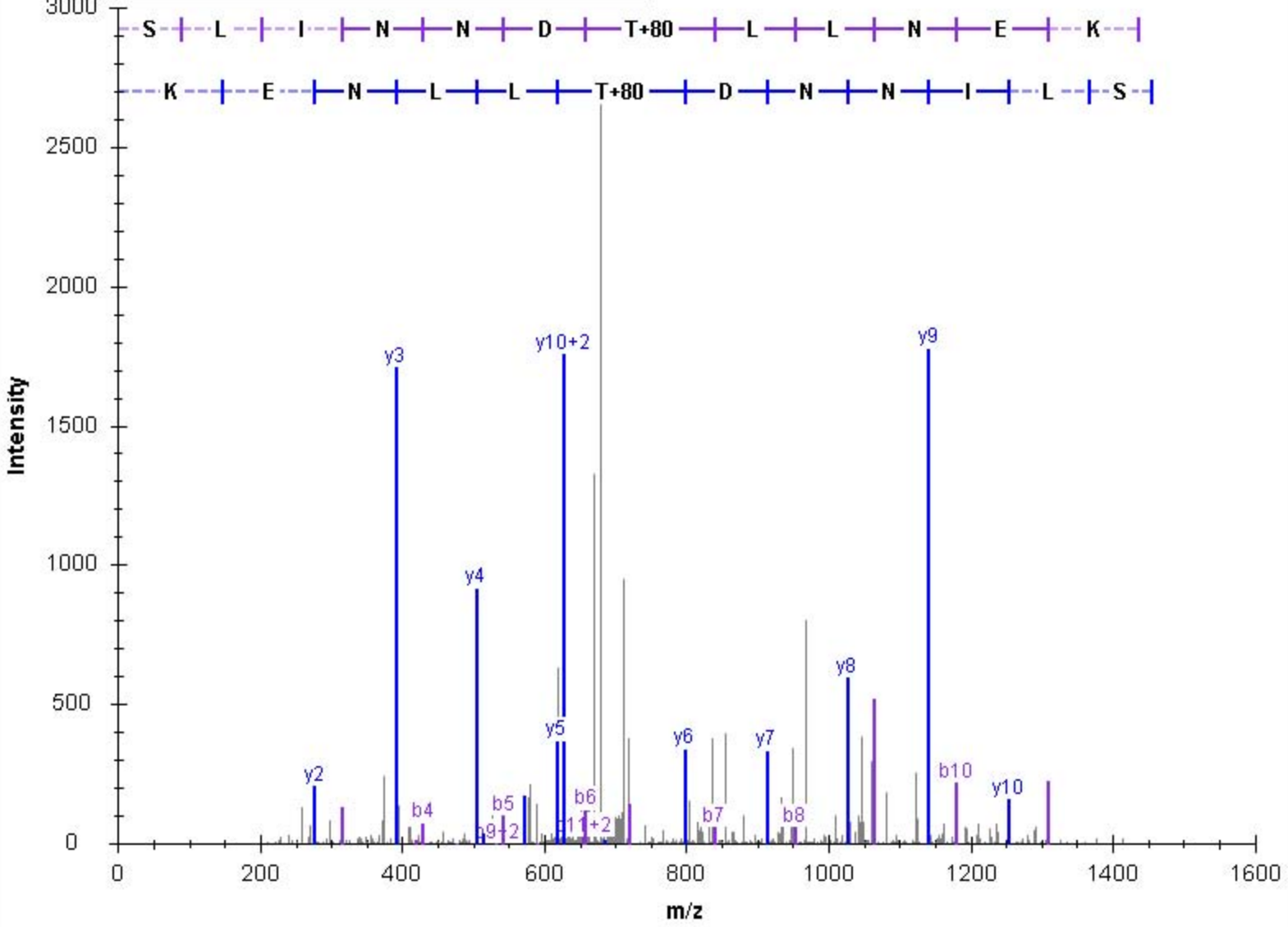
b	b(+2)			y	y(+2)	
132.048	66.528	1	M	24	2742.360	1371.684
231.116	116.062	2	V	23	2611.320	1306.164
332.164	166.586	3	T	22	2512.251	1256.629
389.185	195.096	4	G	21	2411.204	1206.106
518.228	259.618	5	E	20	2354.182	1177.595
619.276	310.141	6	T	19	2225.140	1113.074
732.360	366.683	7	L	18	2124.092	1062.550
831.428	416.218	8	V	17	2011.008	1006.008
946.455	473.731	9	D	16	1911.940	956.473
1113.487	557.247	10	S	15	1796.913	898.960
1241.546	621.276	11	Q	14	1629.881	815.444
1369.641	685.324	12	K	13	1501.822	751.415
1456.673	728.840	13	S	12	1373.727	687.367
1569.757	785.382	14	L	11	1286.695	643.851
1682.841	841.924	15	I	10	1173.611	587.309
1796.884	898.945	16	N	9	1060.527	530.767
1910.927	955.967	17	N	8	946.484	473.746
2025.954	1013.480	18	D	7	832.441	416.724
2127.001	1064.004	19	T	6	717.414	359.211
2240.085	1120.546	20	L	5	616.366	308.687
2353.169	1177.088	21	L	4	503.282	252.145
2467.212	1234.110	22	N	3	390.198	195.603
2596.255	1298.631	23	E	2	276.155	138.581
2724.350	1362.679	24	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=13287



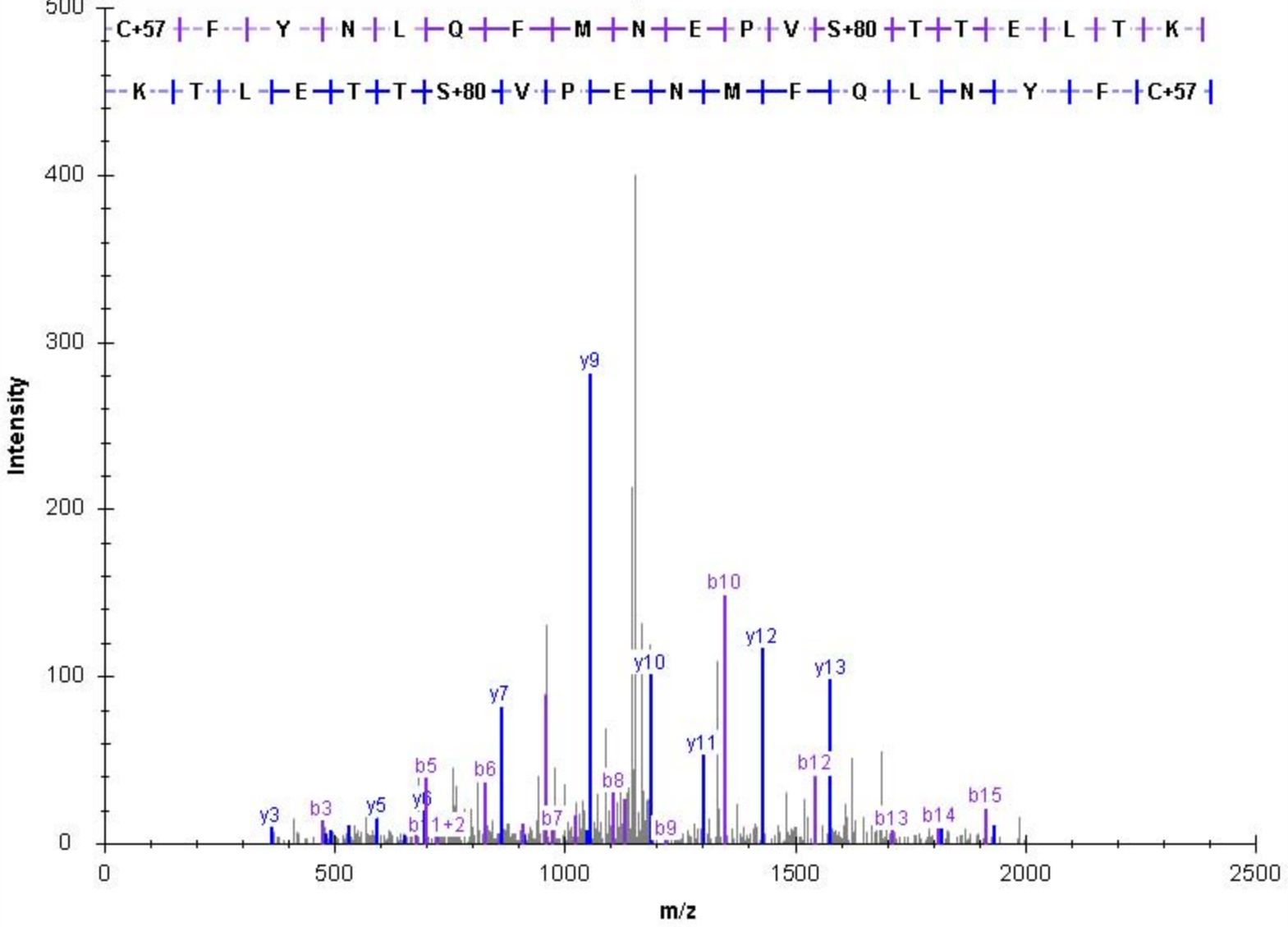
b	b(+2)				y	y(+2)
88.039	44.523	1	S	12	1453.727	727.367
201.123	101.065	2	L	11	1366.695	683.851
314.207	157.607	3	I	10	1253.611	627.309
428.250	214.629	4	N	9	1140.527	570.767
542.293	271.650	5	N	8	1026.484	513.746
657.320	329.164	6	D	7	912.441	456.724
838.368	419.688	7	T	6	797.414	399.211
951.452	476.230	8	L	5	616.366	308.687
1064.536	532.772	9	L	4	503.282	252.145
1178.579	589.793	10	N	3	390.198	195.603
1307.622	654.314	11	E	2	276.155	138.581
1435.717	718.362	12	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=10353



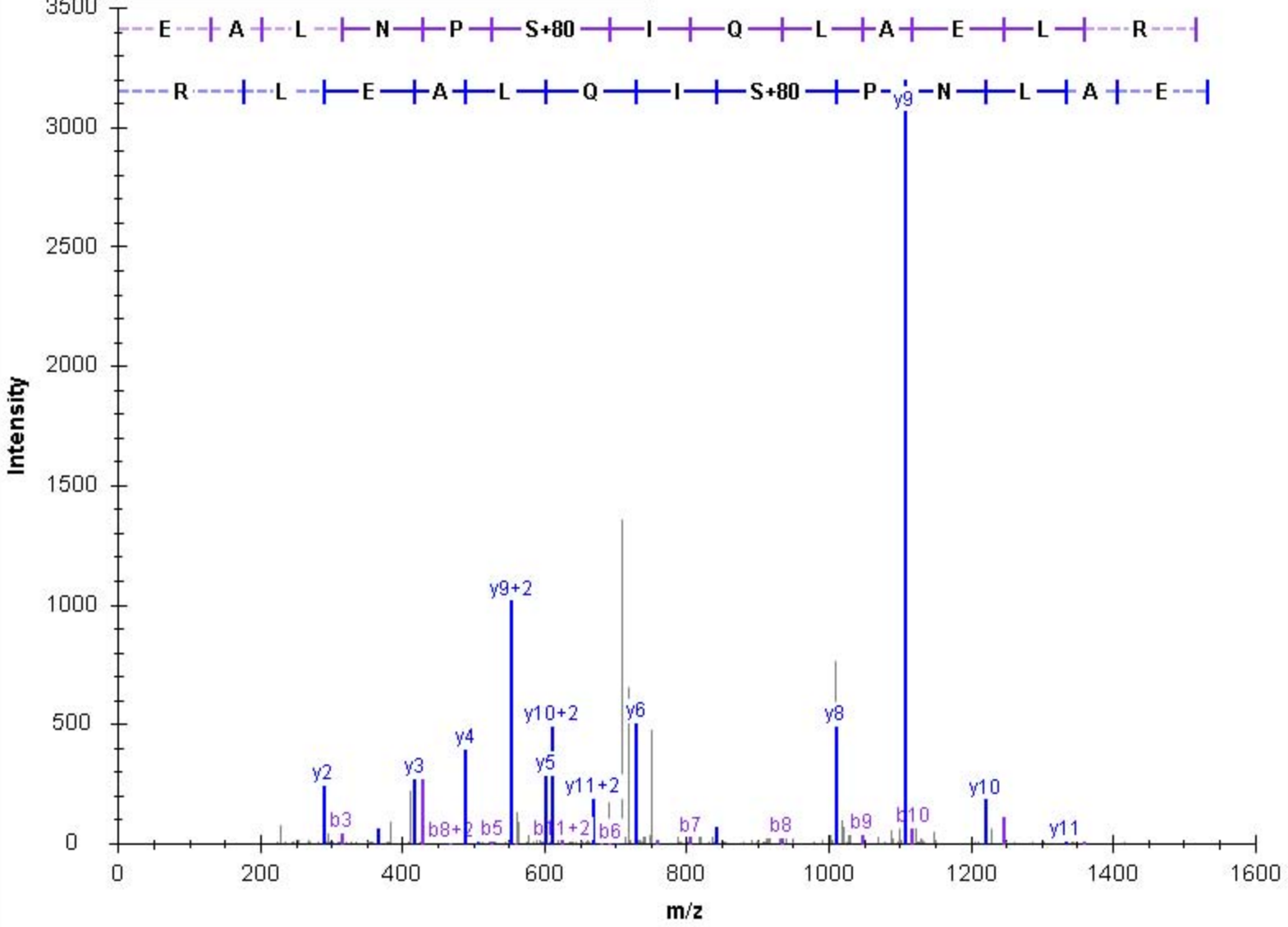
b	b(+2)				y	y(+2)
161.016	81.012	1	C	19	2402.057	1201.532
308.085	154.546	2	F	18	2242.047	1121.527
471.148	236.078	3	Y	17	2094.979	1047.993
585.191	293.099	4	N	16	1931.916	966.461
698.275	349.641	5	L	15	1817.873	909.440
826.334	413.671	6	Q	14	1704.789	852.898
973.402	487.205	7	F	13	1576.730	788.869
1104.443	552.725	8	M	12	1429.662	715.334
1218.486	609.746	9	N	11	1298.621	649.814
1347.528	674.268	10	E	10	1184.578	592.793
1444.581	722.794	11	P	9	1055.536	528.271
1543.649	772.328	12	V	8	958.483	479.745
1710.681	855.844	13	S	7	859.415	430.211
1811.729	906.368	14	T	6	692.382	346.695
1912.777	956.892	15	T	5	591.335	296.171
2041.819	1021.413	16	E	4	490.287	245.647
2154.903	1077.955	17	L	3	361.245	181.126
2255.951	1128.479	18	T	2	248.160	124.584
2384.046	1192.527	19	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=12713



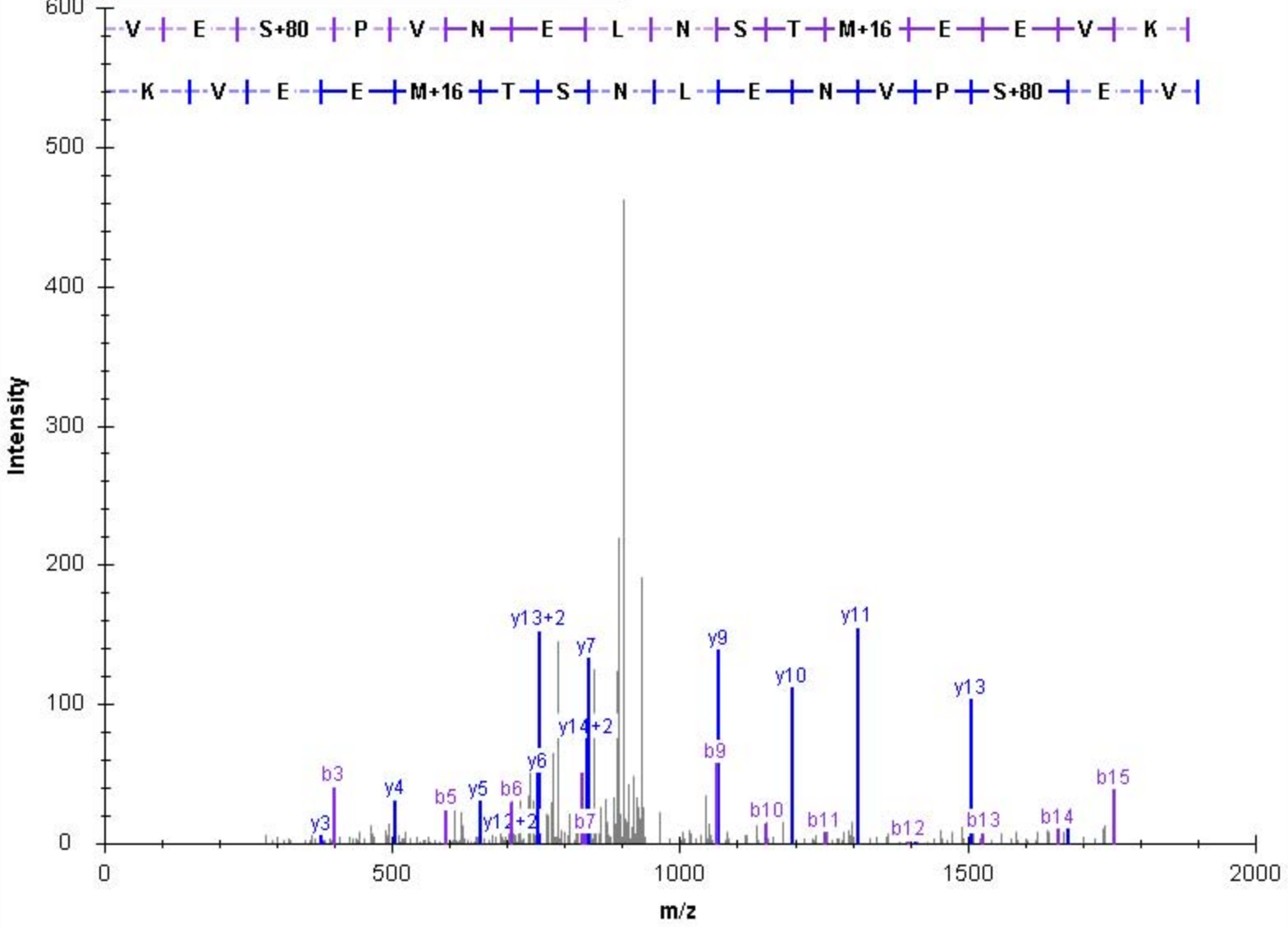
b	b(+2)				y	y(+2)
130.050	65.529	1	E	13	1533.801	767.404
201.087	101.047	2	A	12	1404.758	702.883
314.171	157.589	3	L	11	1333.721	667.364
428.214	214.611	4	N	10	1220.637	610.822
525.267	263.137	5	P	9	1106.594	553.801
692.299	346.653	6	S	8	1009.541	505.274
805.383	403.195	7	I	7	842.509	421.758
933.441	467.224	8	Q	6	729.425	365.216
1046.525	523.766	9	L	5	601.367	301.187
1117.563	559.285	10	A	4	488.283	244.645
1246.605	623.806	11	E	3	417.246	209.126
1359.689	680.348	12	L	2	288.203	144.605
1515.790	758.399	13	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11314



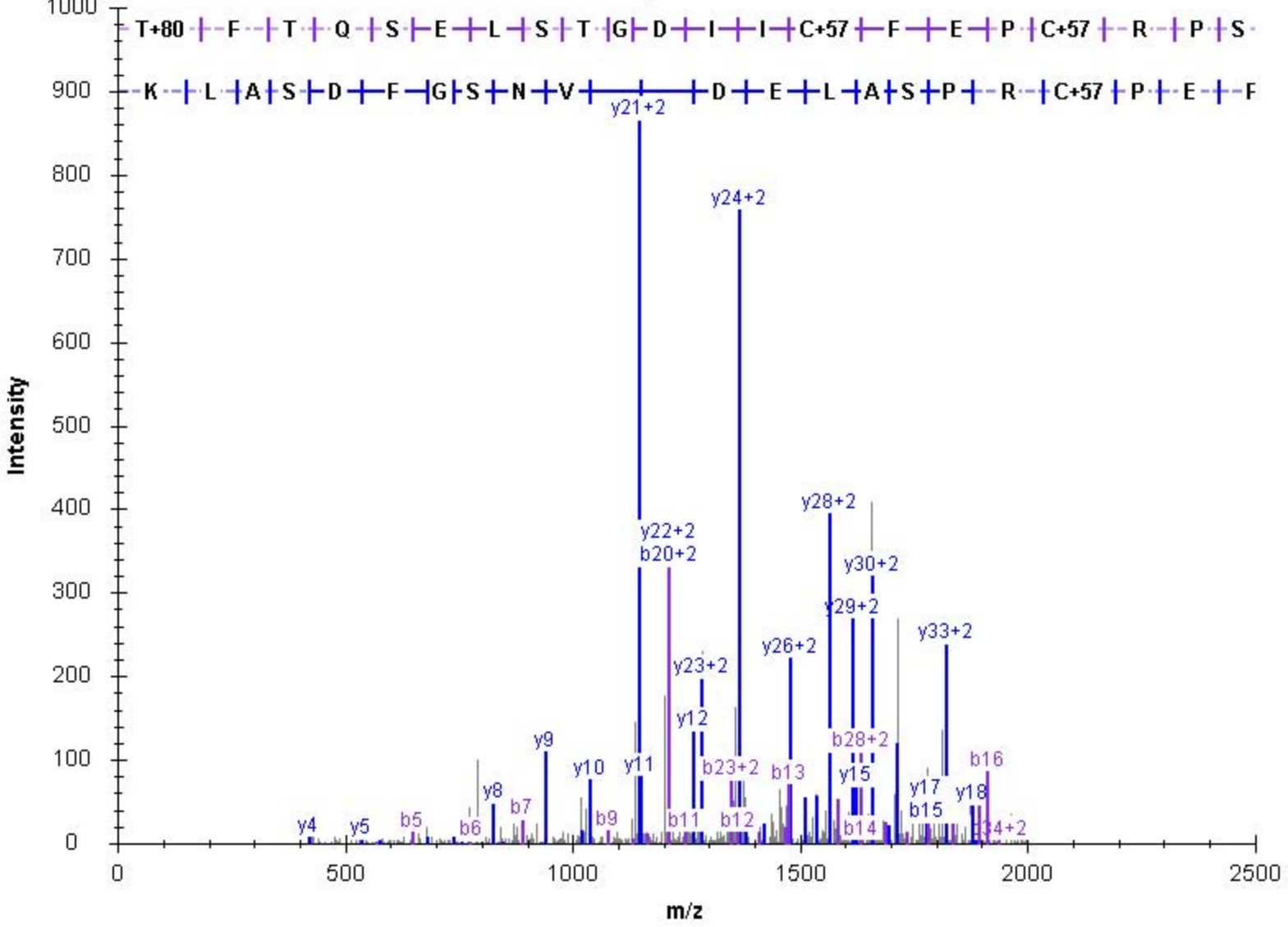
b	b(+2)				y	y(+2)
100.076	50.541	1	V	16	1900.863	950.935
229.118	115.063	2	E	15	1801.795	901.401
396.150	198.579	3	S	14	1672.752	836.880
493.203	247.105	4	P	13	1505.720	753.364
592.271	296.639	5	V	12	1408.668	704.837
706.314	353.661	6	N	11	1309.599	655.303
835.357	418.182	7	E	10	1195.556	598.282
948.441	474.724	8	L	9	1066.514	533.760
1062.484	531.746	9	N	8	953.430	477.218
1149.516	575.262	10	S	7	839.387	420.197
1250.564	625.785	11	T	6	752.355	376.681
1397.604	699.306	12	M	5	651.307	326.157
1526.647	763.827	13	E	4	504.266	252.637
1655.689	828.348	14	E	3	375.224	188.116
1754.758	877.883	15	V	2	246.181	123.594
1882.853	941.930	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9618



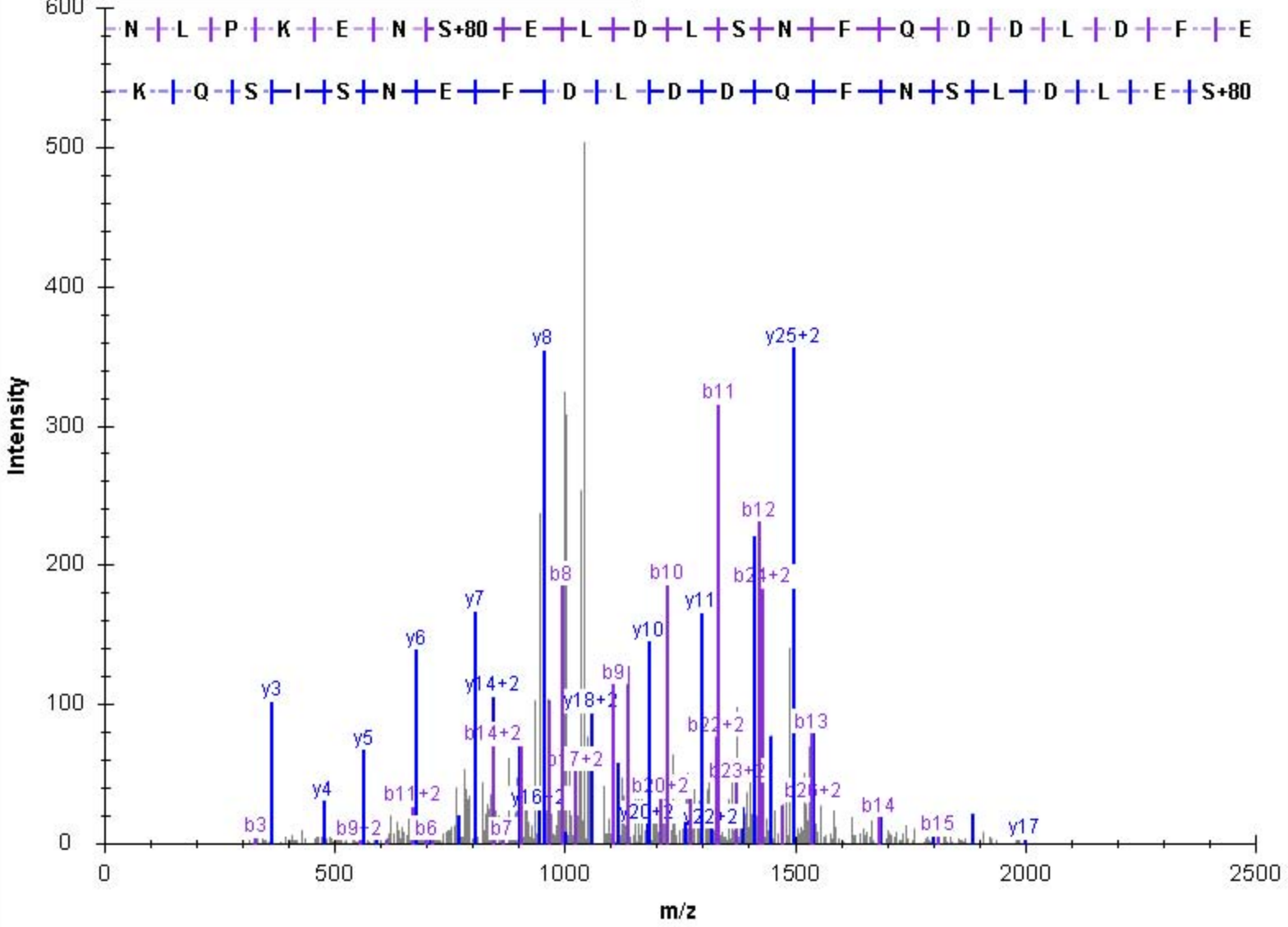
b	b(+2)			y	y(+2)	
182.055	91.531	1	T	37	4199.873	2100.440
329.123	165.065	2	F	36	4018.826	2009.916
430.171	215.589	3	T	35	3871.757	1936.382
558.230	279.618	4	Q	34	3770.709	1885.858
645.262	323.134	5	S	33	3642.651	1821.829
774.304	387.656	6	E	32	3555.619	1778.313
887.388	444.198	7	L	31	3426.576	1713.792
974.420	487.714	8	S	30	3313.492	1657.250
1075.468	538.238	9	T	29	3226.460	1613.734
1132.489	566.748	10	G	28	3125.412	1563.210
1247.516	624.262	11	D	27	3068.391	1534.699
1360.600	680.804	12	I	26	2953.364	1477.186
1473.685	737.346	13	I	25	2840.280	1420.644
1633.694	817.351	14	C	24	2727.196	1364.102
1780.762	890.885	15	F	23	2567.187	1284.097
1909.805	955.406	16	E	22	2420.118	1210.563
2006.858	1003.932	17	P	21	2291.076	1146.042
2166.867	1083.937	18	C	20	2194.023	1097.515
2322.968	1161.988	19	R	19	2034.014	1017.511
2420.021	1210.514	20	P	18	1877.913	939.460
2507.053	1254.030	21	S	17	1780.860	890.934
2578.090	1289.548	22	A	16	1693.828	847.418
2691.174	1346.091	23	L	15	1622.791	811.899
2820.216	1410.612	24	E	14	1509.707	755.357
2935.243	1468.125	25	D	13	1380.664	690.836
3050.270	1525.639	26	D	12	1265.637	633.322
3163.354	1582.181	27	I	11	1150.610	575.809
3262.423	1631.715	28	V	10	1037.526	519.267
3376.466	1688.736	29	N	9	938.458	469.733
3463.498	1732.252	30	S	8	824.415	412.711
3520.519	1760.763	31	G	7	737.383	369.195
3667.588	1834.297	32	F	6	680.361	340.684

controllerType=0 controllerNumber=1 scan=15470



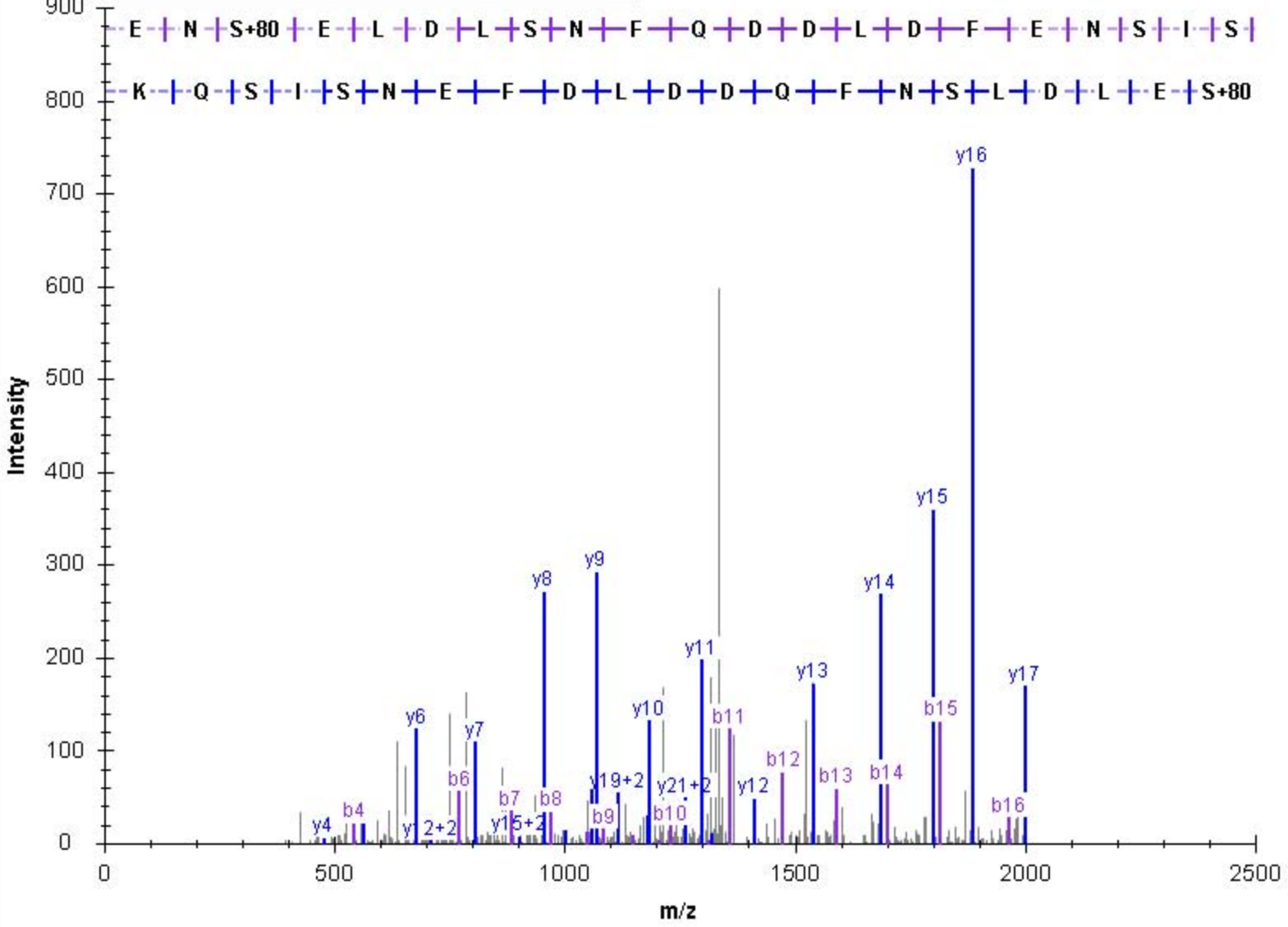
b	b(+2)			y	y(+2)	
115.050	58.029	1	N	27	3219.470	1610.239
228.134	114.571	2	L	26	3105.427	1553.217
325.187	163.097	3	P	25	2992.343	1496.675
453.282	227.145	4	K	24	2895.290	1448.149
582.325	291.666	5	E	23	2767.195	1384.101
696.368	348.687	6	N	22	2638.153	1319.580
863.400	432.203	7	S	21	2524.110	1262.559
992.442	496.725	8	E	20	2357.078	1179.043
1105.526	553.267	9	L	19	2228.035	1114.521
1220.553	610.780	10	D	18	2114.951	1057.979
1333.637	667.322	11	L	17	1999.924	1000.466
1420.669	710.838	12	S	16	1886.840	943.924
1534.712	767.860	13	N	15	1799.808	900.408
1681.781	841.394	14	F	14	1685.765	843.386
1809.839	905.423	15	Q	13	1538.697	769.852
1924.866	962.937	16	D	12	1410.638	705.823
2039.893	1020.450	17	D	11	1295.611	648.309
2152.977	1076.992	18	L	10	1180.584	590.796
2268.004	1134.506	19	D	9	1067.500	534.254
2415.072	1208.040	20	F	8	952.473	476.740
2544.115	1272.561	21	E	7	805.405	403.206
2658.158	1329.583	22	N	6	676.362	338.685
2745.190	1373.099	23	S	5	562.320	281.663
2858.274	1429.641	24	I	4	475.287	238.147
2945.306	1473.157	25	S	3	362.203	181.605
3073.365	1537.186	26	Q	2	275.171	138.089
3201.460	1601.233	27	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=14082



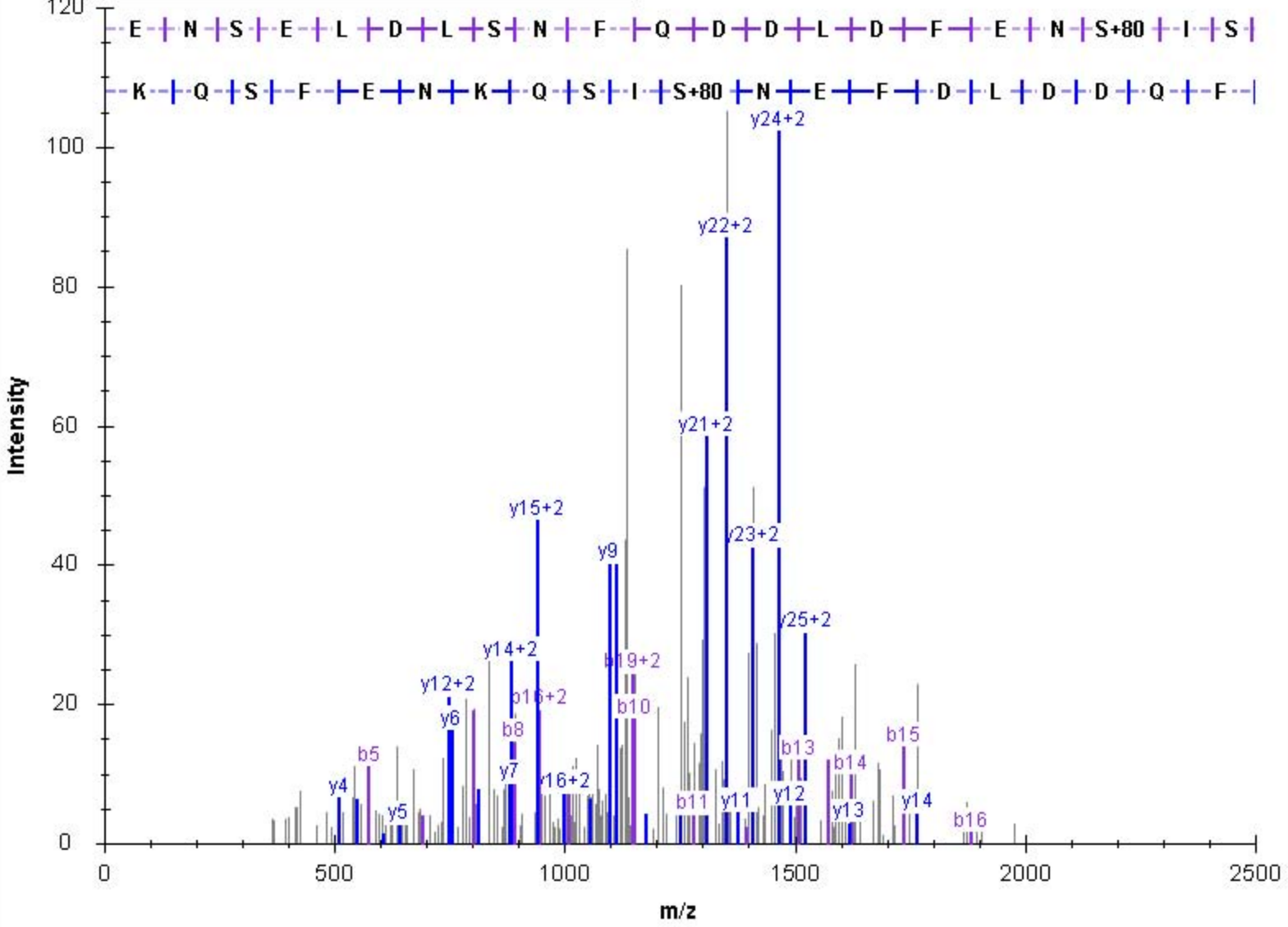
b	b(+2)				y	y(+2)
130.050	65.529	1	E	23	2767.195	1384.101
244.093	122.550	2	N	22	2638.153	1319.580
411.125	206.066	3	S	21	2524.110	1262.559
540.167	270.587	4	E	20	2357.078	1179.043
653.251	327.129	5	L	19	2228.035	1114.521
768.278	384.643	6	D	18	2114.951	1057.979
881.362	441.185	7	L	17	1999.924	1000.466
968.395	484.701	8	S	16	1886.840	943.924
1082.437	541.722	9	N	15	1799.808	900.408
1229.506	615.257	10	F	14	1685.765	843.386
1357.564	679.286	11	Q	13	1538.697	769.852
1472.591	736.799	12	D	12	1410.638	705.823
1587.618	794.313	13	D	11	1295.611	648.309
1700.702	850.855	14	L	10	1180.584	590.796
1815.729	908.368	15	D	9	1067.500	534.254
1962.798	981.903	16	F	8	952.473	476.740
2091.840	1046.424	17	E	7	805.405	403.206
2205.883	1103.445	18	N	6	676.362	338.685
2292.915	1146.961	19	S	5	562.320	281.663
2405.999	1203.503	20	I	4	475.287	238.147
2493.031	1247.019	21	S	3	362.203	181.605
2621.090	1311.049	22	Q	2	275.171	138.089
2749.185	1375.096	23	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=12742



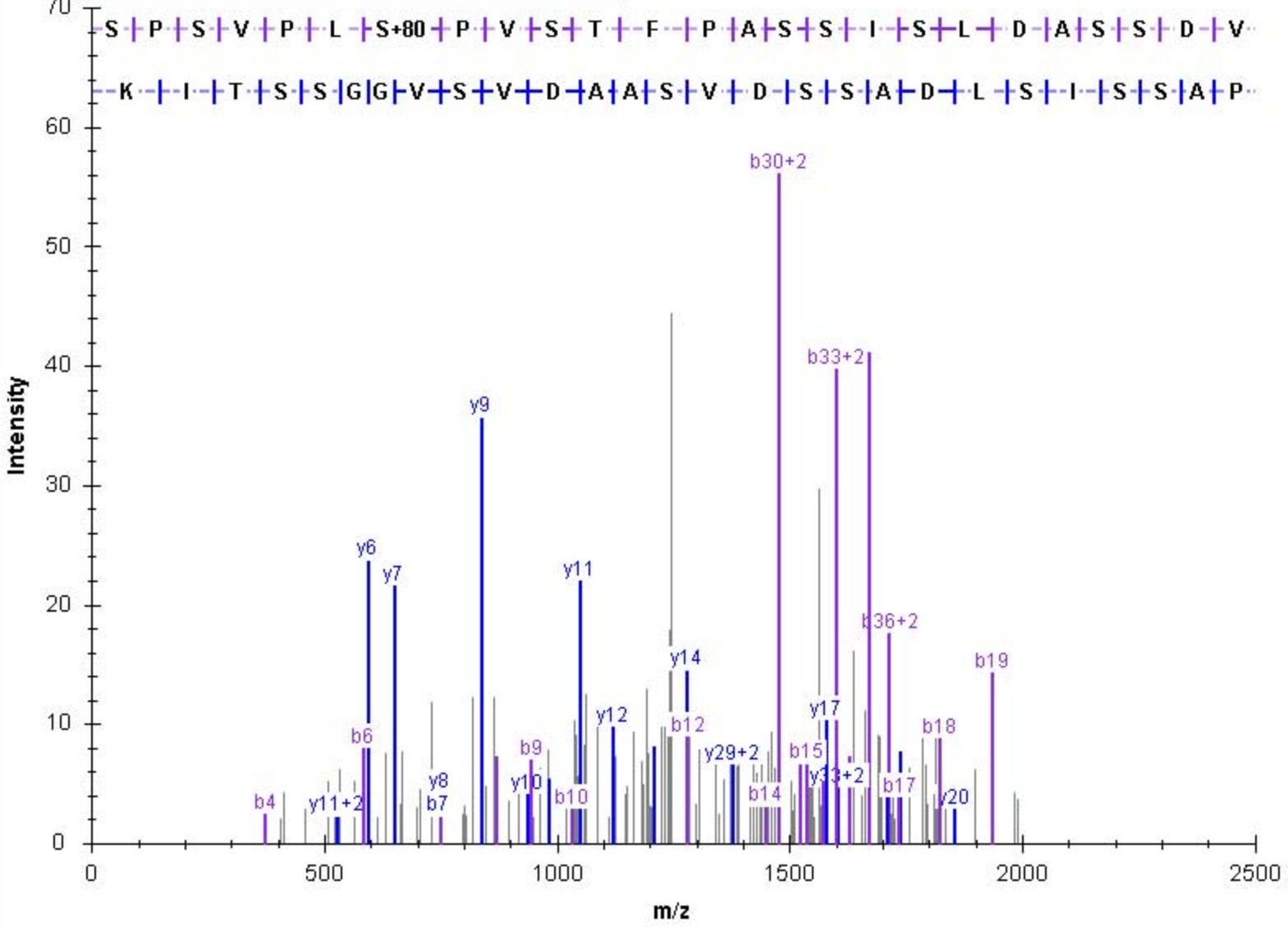
b	b(+2)				y	y(+2)
130.050	65.529	1	E	29	3500.535	1750.771
244.093	122.550	2	N	28	3371.492	1686.250
331.125	166.066	3	S	27	3257.449	1629.228
460.167	230.587	4	E	26	3170.417	1585.712
573.251	287.129	5	L	25	3041.375	1521.191
688.278	344.643	6	D	24	2928.291	1464.649
801.362	401.185	7	L	23	2813.264	1407.136
888.395	444.701	8	S	22	2700.180	1350.594
1002.437	501.722	9	N	21	2613.148	1307.078
1149.506	575.257	10	F	20	2499.105	1250.056
1277.564	639.286	11	Q	19	2352.036	1176.522
1392.591	696.799	12	D	18	2223.978	1112.493
1507.618	754.313	13	D	17	2108.951	1054.979
1620.702	810.855	14	L	16	1993.924	997.466
1735.729	868.368	15	D	15	1880.840	940.924
1882.798	941.903	16	F	14	1765.813	883.410
2011.840	1006.424	17	E	13	1618.745	809.876
2125.883	1063.445	18	N	12	1489.702	745.355
2292.915	1146.961	19	S	11	1375.659	688.333
2405.999	1203.503	20	I	10	1208.627	604.817
2493.031	1247.019	21	S	9	1095.543	548.275
2621.090	1311.049	22	Q	8	1008.511	504.759
2749.185	1375.096	23	K	7	880.452	440.730
2863.228	1432.118	24	N	6	752.357	376.682
2992.270	1496.639	25	E	5	638.314	319.661
3139.339	1570.173	26	F	4	509.272	255.140
3226.371	1613.689	27	S	3	362.203	181.605
3354.429	1677.718	28	Q	2	275.171	138.089
3482.524	1741.766	29	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=14157

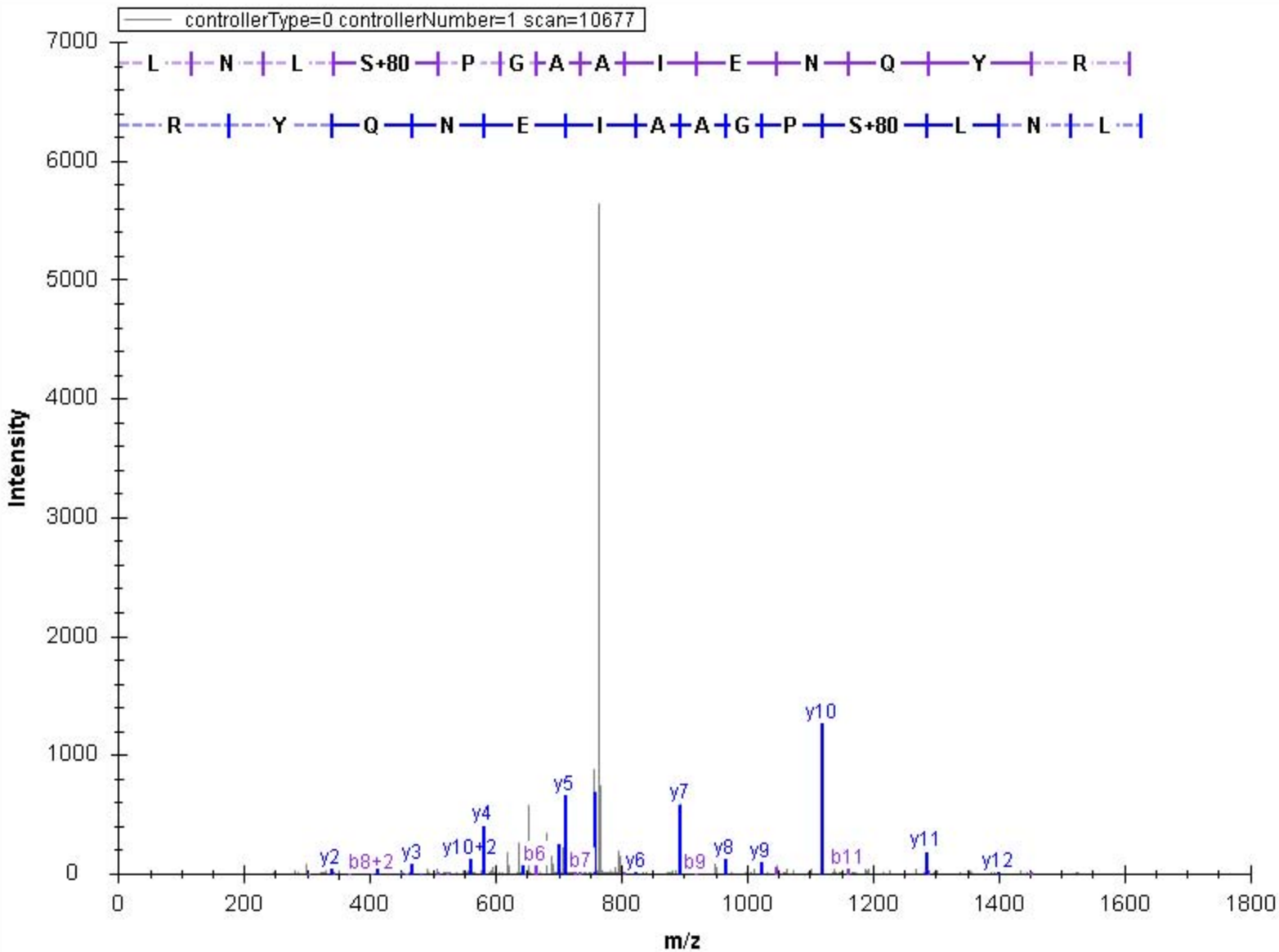


b	b(+2)			y	y(+2)	
88.039	44.523	1	S	39	3786.855	1893.931
185.092	93.050	2	P	38	3699.823	1850.415
272.124	136.566	3	S	37	3602.770	1801.889
371.193	186.100	4	V	36	3515.738	1758.372
468.245	234.626	5	P	35	3416.669	1708.838
581.329	291.168	6	L	34	3319.617	1660.312
748.361	374.684	7	S	33	3206.532	1603.770
845.414	423.211	8	P	32	3039.500	1520.254
944.483	472.745	9	V	31	2942.448	1471.727
1031.515	516.261	10	S	30	2843.379	1422.193
1132.562	566.785	11	T	29	2756.347	1378.677
1279.631	640.319	12	F	28	2655.300	1328.153
1376.683	688.845	13	P	27	2508.231	1254.619
1447.721	724.364	14	A	26	2411.178	1206.093
1534.753	767.880	15	S	25	2340.141	1170.574
1621.785	811.396	16	S	24	2253.109	1127.058
1734.869	867.938	17	I	23	2166.077	1083.542
1821.901	911.454	18	S	22	2052.993	1027.000
1934.985	967.996	19	L	21	1965.961	983.484
2050.012	1025.509	20	D	20	1852.877	926.942
2121.049	1061.028	21	A	19	1737.850	869.429
2208.081	1104.544	22	S	18	1666.813	833.910
2295.113	1148.060	23	S	17	1579.781	790.394
2410.140	1205.574	24	D	16	1492.749	746.878
2509.208	1255.108	25	V	15	1377.722	689.365
2596.240	1298.624	26	S	14	1278.654	639.830
2667.277	1334.142	27	A	13	1191.622	596.314
2738.314	1369.661	28	A	12	1120.584	560.796
2853.341	1427.174	29	D	11	1049.547	525.277
2952.410	1476.709	30	V	10	934.520	467.764
3039.442	1520.225	31	S	9	835.452	418.230
3138.510	1569.759	32	V	8	748.420	374.714

controllerType=0 controllerNumber=1 scan=13460

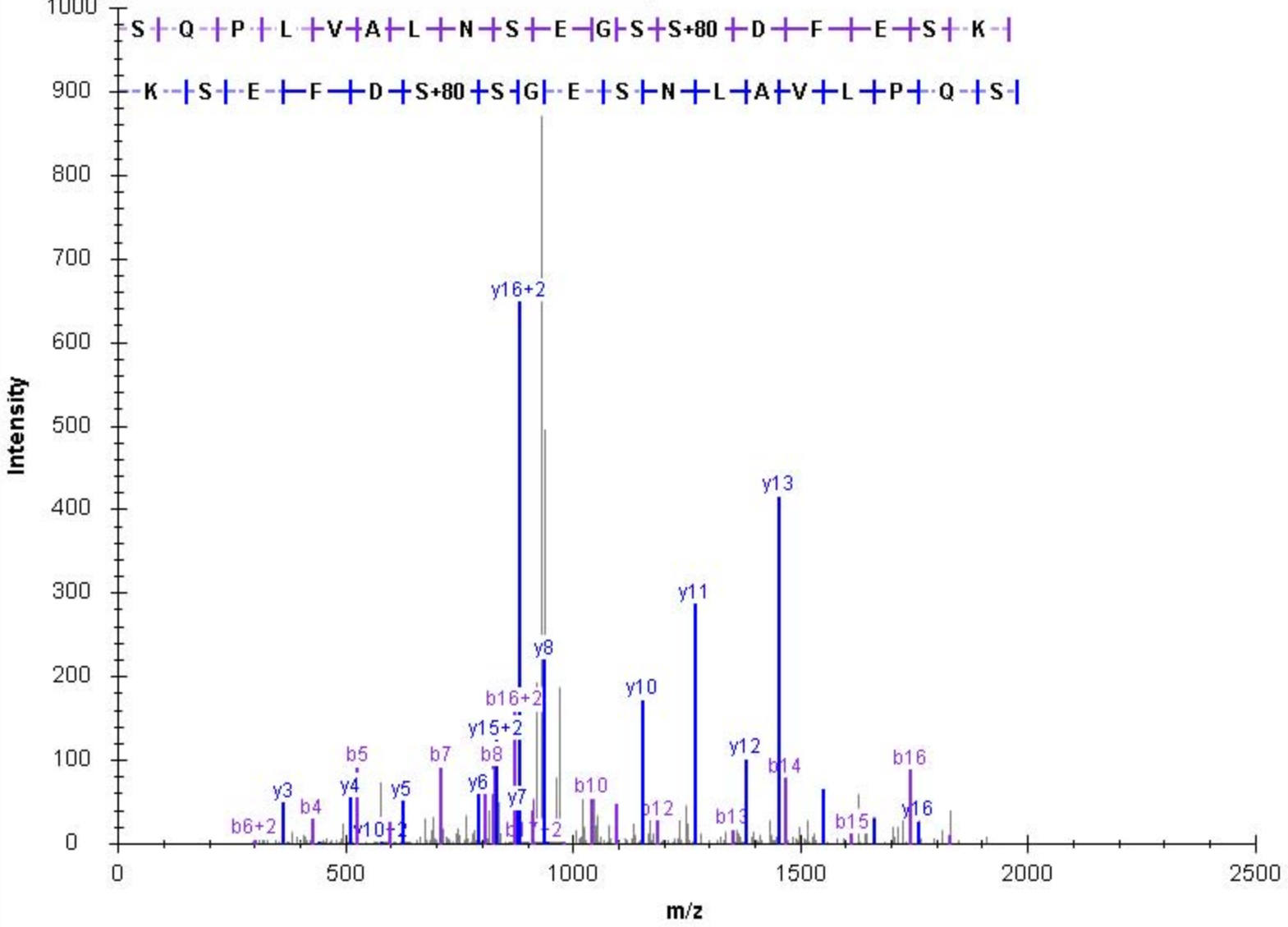


b	b(+2)				y	y(+2)
114.091	57.549	1	L	14	1625.802	813.405
228.134	114.571	2	N	13	1512.718	756.863
341.218	171.113	3	L	12	1398.675	699.841
508.250	254.629	4	S	11	1285.591	643.299
605.303	303.155	5	P	10	1118.559	559.783
662.325	331.666	6	G	9	1021.506	511.257
733.362	367.184	7	A	8	964.485	482.746
804.399	402.703	8	A	7	893.448	447.227
917.483	459.245	9	I	6	822.410	411.709
1046.525	523.766	10	E	5	709.326	355.167
1160.568	580.788	11	N	4	580.284	290.646
1288.627	644.817	12	Q	3	466.241	233.624
1451.690	726.349	13	Y	2	338.182	169.595
1607.791	804.399	14	R	1	175.119	88.063



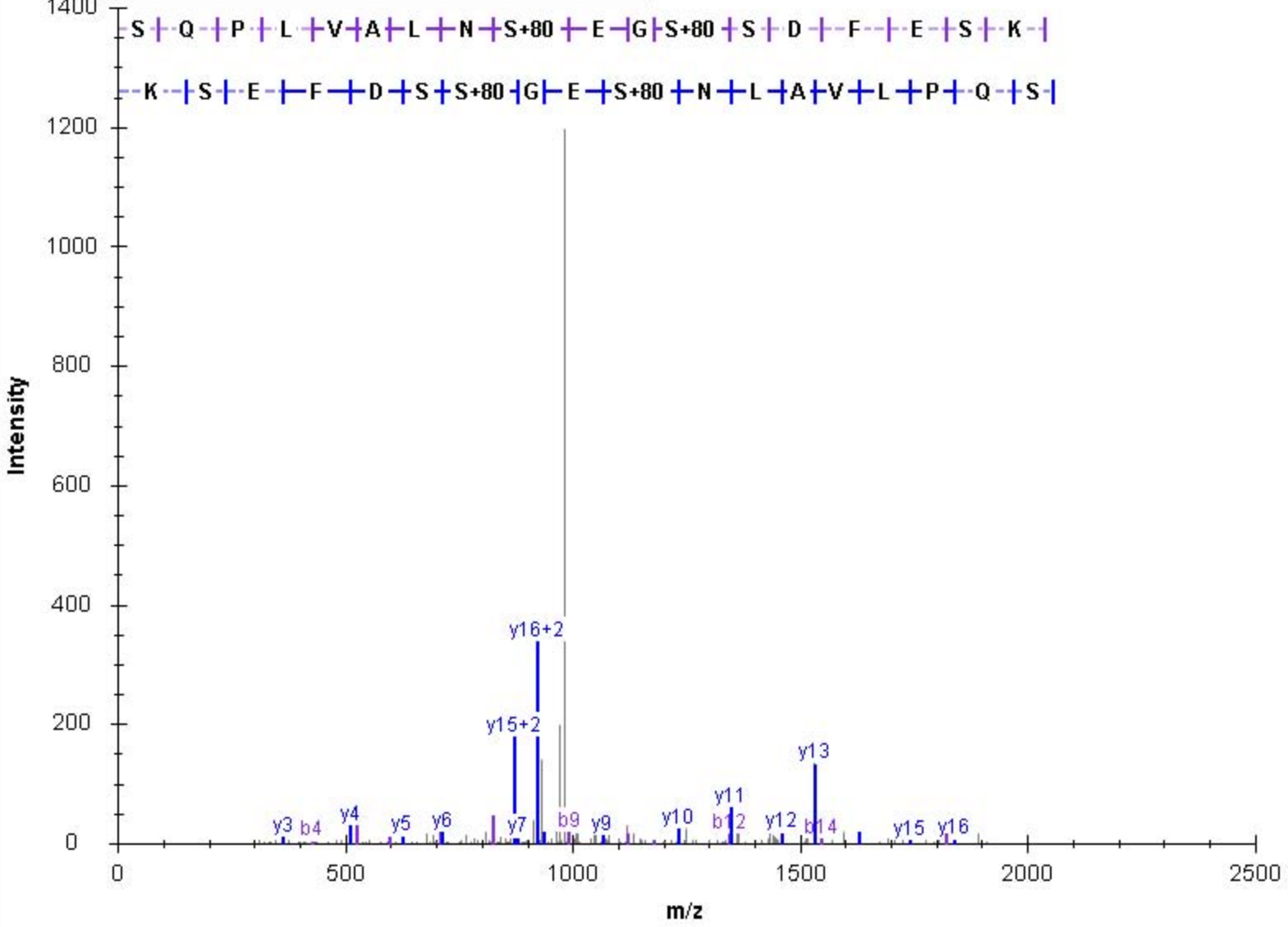
b	b(+2)				y	y(+2)
88.039	44.523	1	S	18	1974.903	987.955
216.098	108.553	2	Q	17	1887.871	944.439
313.151	157.079	3	P	16	1759.812	880.410
426.235	213.621	4	L	15	1662.760	831.883
525.303	263.155	5	V	14	1549.675	775.341
596.340	298.674	6	A	13	1450.607	725.807
709.424	355.216	7	L	12	1379.570	690.289
823.467	412.237	8	N	11	1266.486	633.747
910.499	455.753	9	S	10	1152.443	576.725
1039.542	520.275	10	E	9	1065.411	533.209
1096.563	548.785	11	G	8	936.368	468.688
1183.595	592.301	12	S	7	879.347	440.177
1350.627	675.817	13	S	6	792.315	396.661
1465.654	733.331	14	D	5	625.283	313.145
1612.723	806.865	15	F	4	510.256	255.632
1741.765	871.386	16	E	3	363.187	182.097
1828.797	914.902	17	S	2	234.145	117.576
1956.892	978.950	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=10334



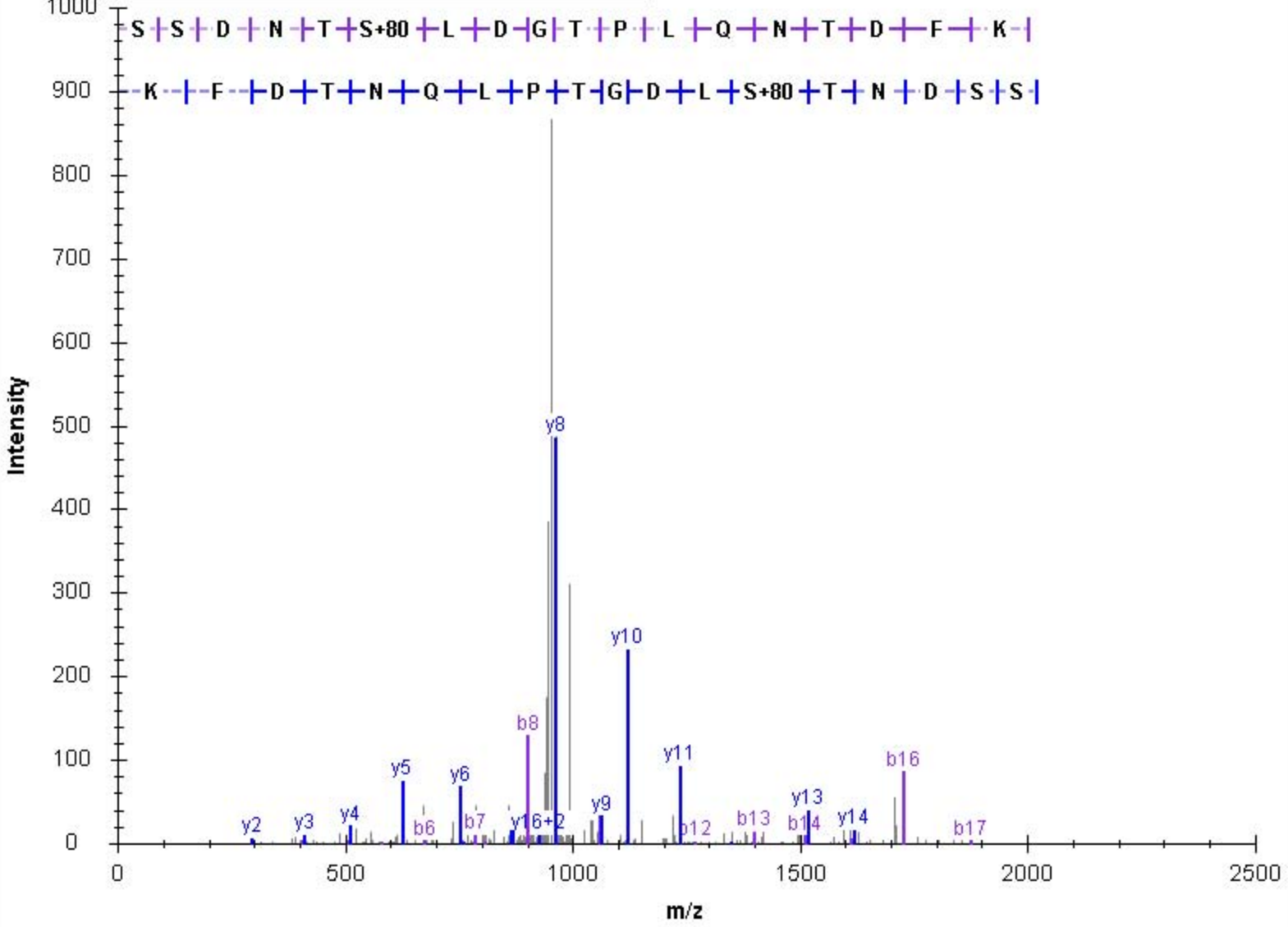
b	b(+2)				y	y(+2)
88.039	44.523	1	S	18	2054.903	1027.955
216.098	108.553	2	Q	17	1967.871	984.439
313.151	157.079	3	P	16	1839.812	920.410
426.235	213.621	4	L	15	1742.760	871.883
525.303	263.155	5	V	14	1629.675	815.341
596.340	298.674	6	A	13	1530.607	765.807
709.424	355.216	7	L	12	1459.570	730.289
823.467	412.237	8	N	11	1346.486	673.747
990.499	495.753	9	S	10	1232.443	616.725
1119.542	560.275	10	E	9	1065.411	533.209
1176.563	588.785	11	G	8	936.368	468.688
1343.595	672.301	12	S	7	879.347	440.177
1430.627	715.817	13	S	6	712.315	356.661
1545.654	773.331	14	D	5	625.283	313.145
1692.723	846.865	15	F	4	510.256	255.632
1821.765	911.386	16	E	3	363.187	182.097
1908.797	954.902	17	S	2	234.145	117.576
2036.892	1018.950	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11213



b	b(+2)				y	y(+2)
88.039	44.523	1	S	18	2019.888	1010.448
175.071	88.039	2	S	17	1932.856	966.932
290.098	145.553	3	D	16	1845.824	923.416
404.141	202.574	4	N	15	1730.797	865.902
505.189	253.098	5	T	14	1616.754	808.881
672.221	336.614	6	S	13	1515.706	758.357
785.305	393.156	7	L	12	1348.674	674.841
900.332	450.670	8	D	11	1235.590	618.299
957.353	479.180	9	G	10	1120.563	560.785
1058.401	529.704	10	T	9	1063.542	532.275
1155.454	578.231	11	P	8	962.494	481.751
1268.538	634.773	12	L	7	865.441	433.224
1396.596	698.802	13	Q	6	752.357	376.682
1510.639	755.823	14	N	5	624.299	312.653
1611.687	806.347	15	T	4	510.256	255.632
1726.714	863.861	16	D	3	409.208	205.108
1873.782	937.395	17	F	2	294.181	147.594
2001.877	1001.442	18	K	1	147.113	74.060

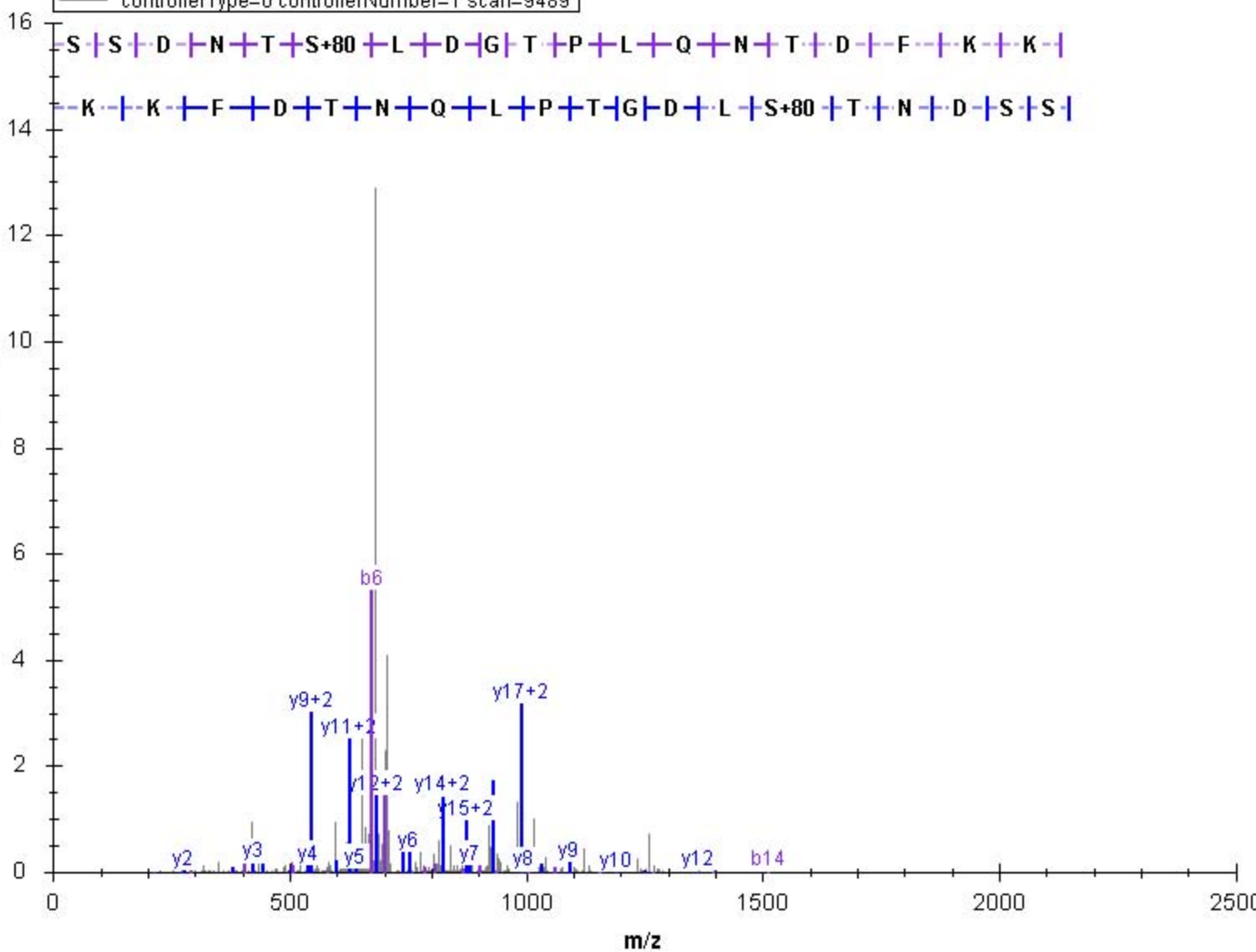
controllerType=0 controllerNumber=1 scan=10086



b	b(+2)			y	y(+2)	
88.039	44.523	1	S	19	2147.983	1074.495
175.071	88.039	2	S	18	2060.951	1030.979
290.098	145.553	3	D	17	1973.919	987.463
404.141	202.574	4	N	16	1858.892	929.950
505.189	253.098	5	T	15	1744.849	872.928
672.221	336.614	6	S	14	1643.801	822.404
785.305	393.156	7	L	13	1476.769	738.888
900.332	450.670	8	D	12	1363.685	682.346
957.353	479.180	9	G	11	1248.658	624.833
1058.401	529.704	10	T	10	1191.637	596.322
1155.454	578.231	11	P	9	1090.589	545.798
1268.538	634.773	12	L	8	993.536	497.272
1396.596	698.802	13	Q	7	880.452	440.730
1510.639	755.823	14	N	6	752.394	376.701
1611.687	806.347	15	T	5	638.351	319.679
1726.714	863.861	16	D	4	537.303	269.155
1873.782	937.395	17	F	3	422.276	211.642
2001.877	1001.442	18	K	2	275.208	138.108
2129.972	1065.490	19	K	1	147.113	74.060

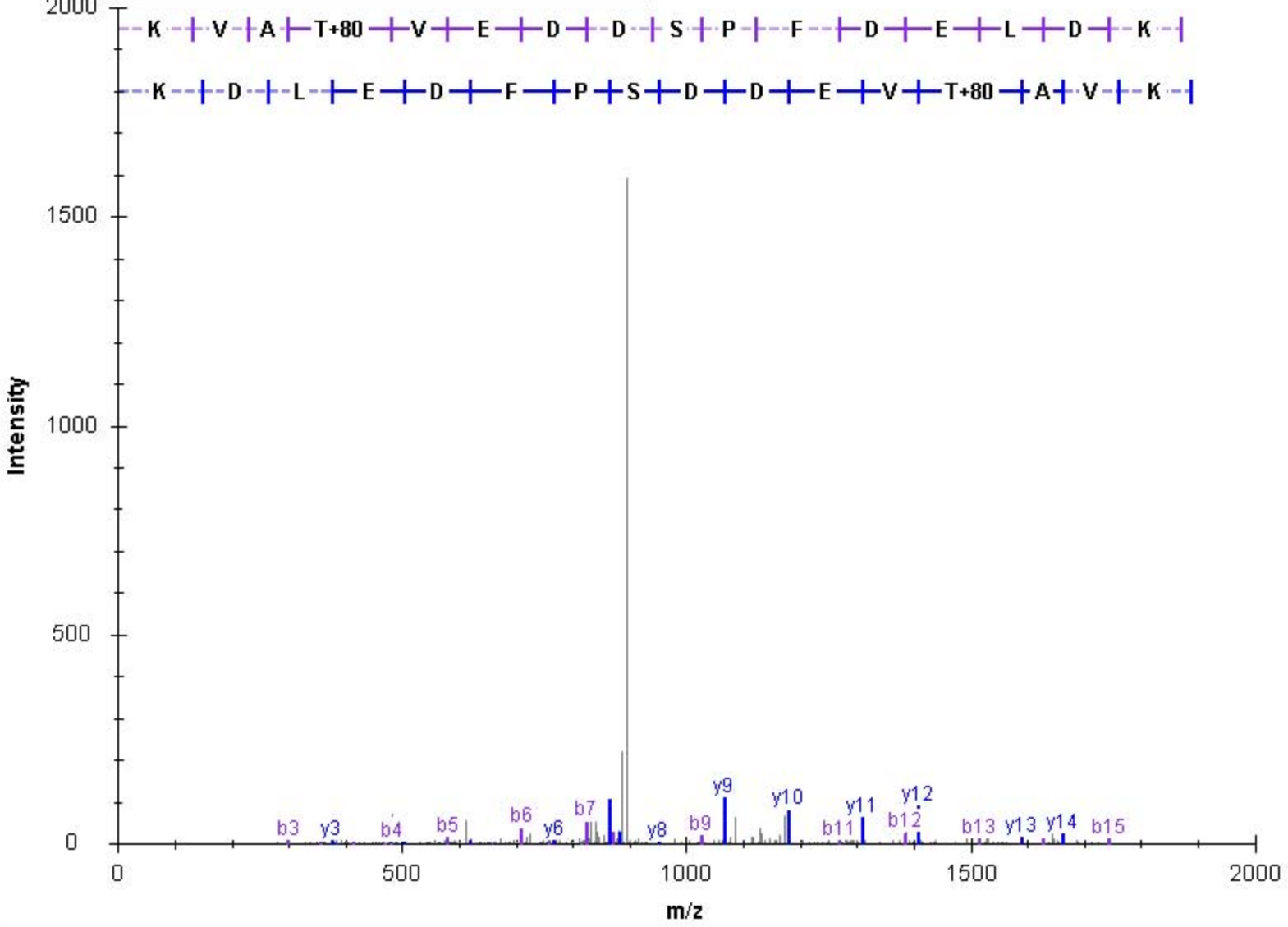
controllerType=0 controllerNumber=1 scan=9489

Intensity (10³)



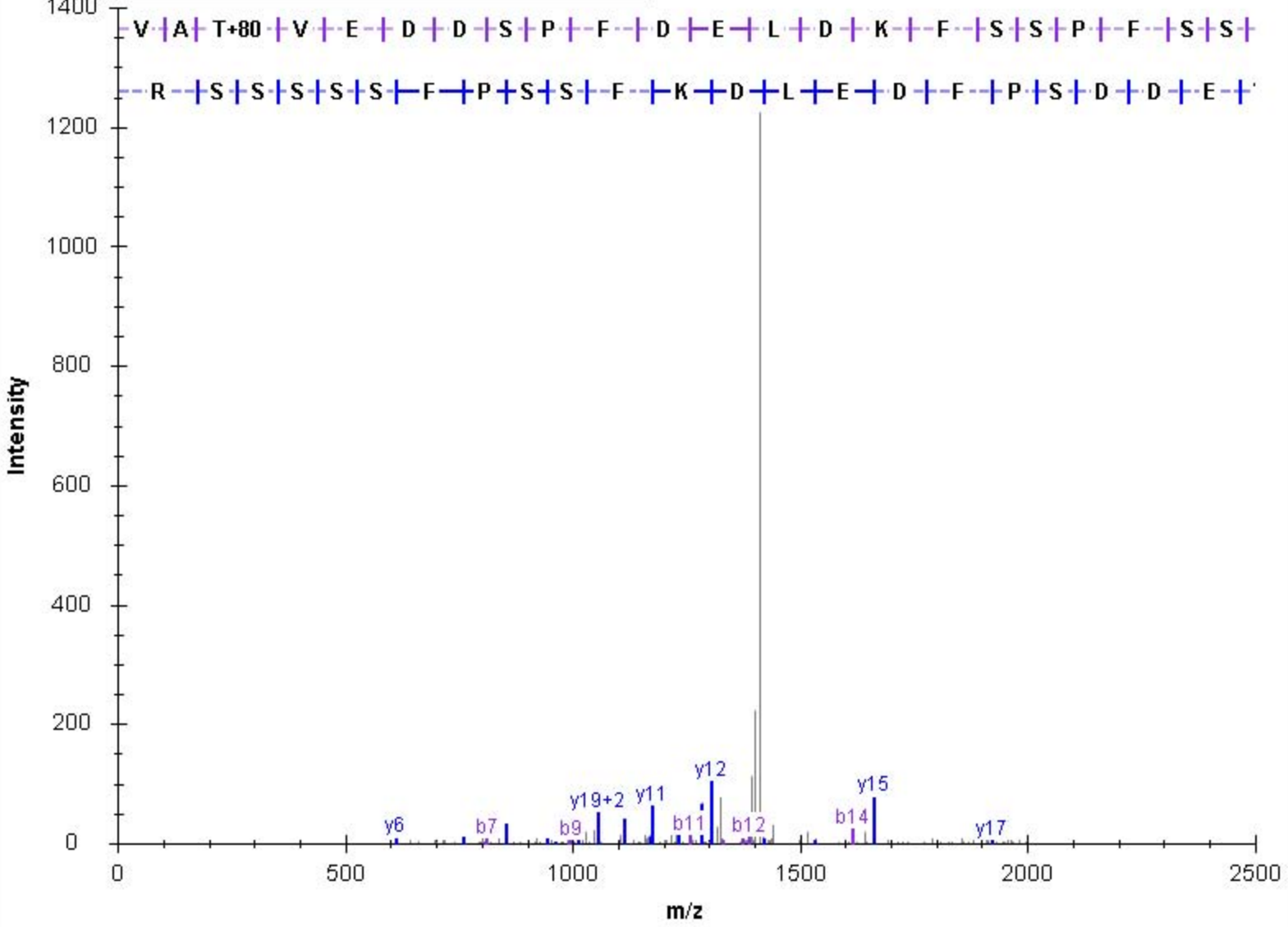
b	b(+2)				y	y(+2)
129.102	65.055	1	K	16	1887.860	944.433
228.171	114.589	2	V	15	1759.765	880.386
299.208	150.108	3	A	14	1660.696	830.852
480.255	240.631	4	T	13	1589.659	795.333
579.324	290.166	5	V	12	1408.611	704.809
708.366	354.687	6	E	11	1309.543	655.275
823.393	412.200	7	D	10	1180.500	590.754
938.420	469.714	8	D	9	1065.473	533.240
1025.452	513.230	9	S	8	950.447	475.727
1122.505	561.756	10	P	7	863.415	432.211
1269.574	635.290	11	F	6	766.362	383.685
1384.600	692.804	12	D	5	619.293	310.150
1513.643	757.325	13	E	4	504.266	252.637
1626.727	813.867	14	L	3	375.224	188.116
1741.754	871.381	15	D	2	262.140	131.574
1869.849	935.428	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11826



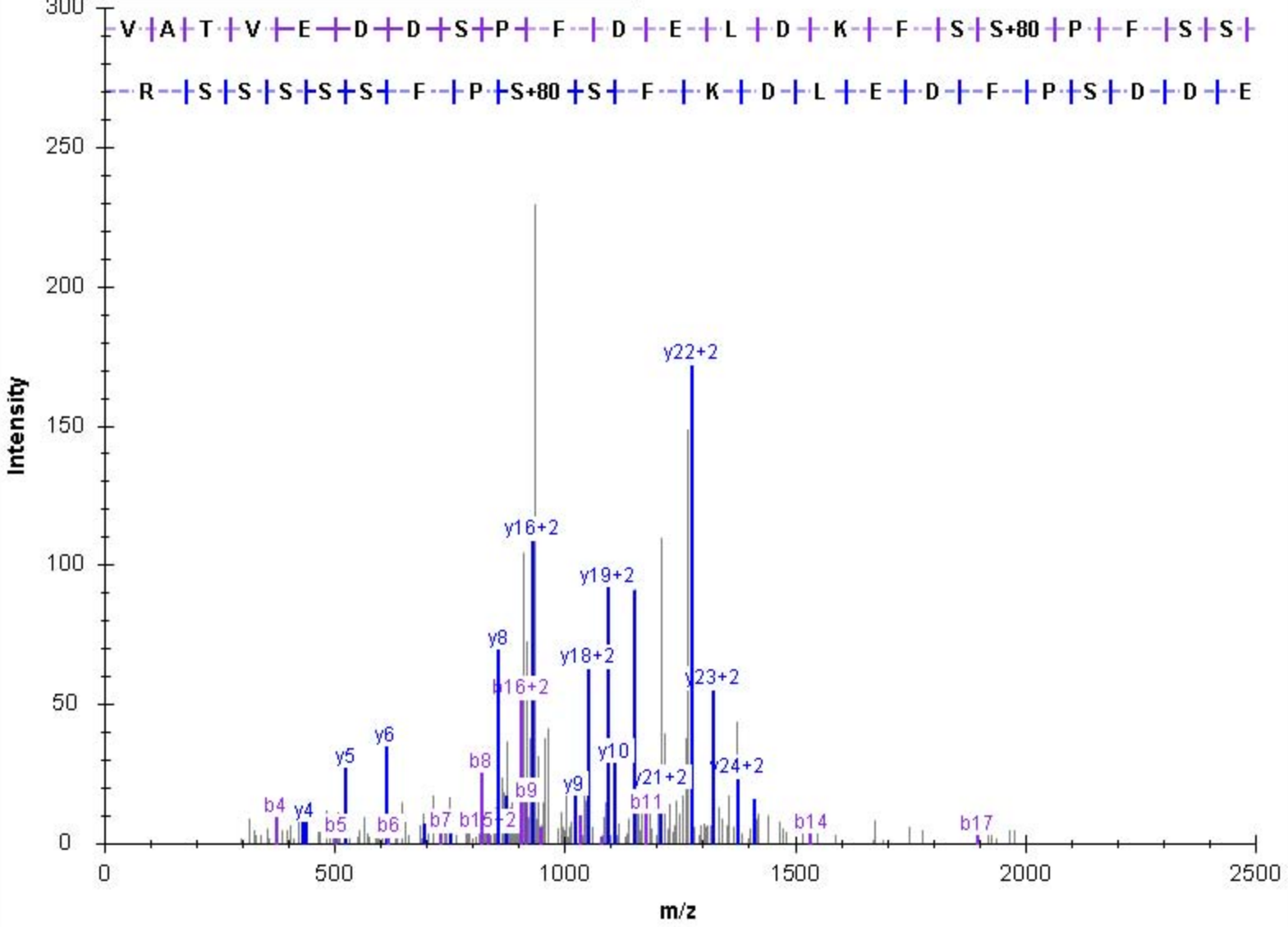
b	b(+2)			y	y(+2)	
100.076	50.541	1	V	26	2916.280	1458.643
171.113	86.060	2	A	25	2817.211	1409.109
352.160	176.584	3	T	24	2746.174	1373.591
451.229	226.118	4	V	23	2565.126	1283.067
580.271	290.639	5	E	22	2466.058	1233.533
695.298	348.153	6	D	21	2337.015	1169.011
810.325	405.666	7	D	20	2221.988	1111.498
897.357	449.182	8	S	19	2106.961	1053.984
994.410	497.709	9	P	18	2019.929	1010.468
1141.479	571.243	10	F	17	1922.877	961.942
1256.506	628.756	11	D	16	1775.808	888.408
1385.548	693.278	12	E	15	1660.781	830.894
1498.632	749.820	13	L	14	1531.739	766.373
1613.659	807.333	14	D	13	1418.655	709.831
1741.754	871.381	15	K	12	1303.628	652.317
1888.823	944.915	16	F	11	1175.533	588.270
1975.855	988.431	17	S	10	1028.464	514.736
2062.887	1031.947	18	S	9	941.432	471.220
2159.939	1080.473	19	P	8	854.400	427.704
2307.008	1154.008	20	F	7	757.348	379.177
2394.040	1197.524	21	S	6	610.279	305.643
2481.072	1241.040	22	S	5	523.247	262.127
2568.104	1284.556	23	S	4	436.215	218.611
2655.136	1328.072	24	S	3	349.183	175.095
2742.168	1371.588	25	S	2	262.151	131.579
2898.269	1449.638	26	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=14537



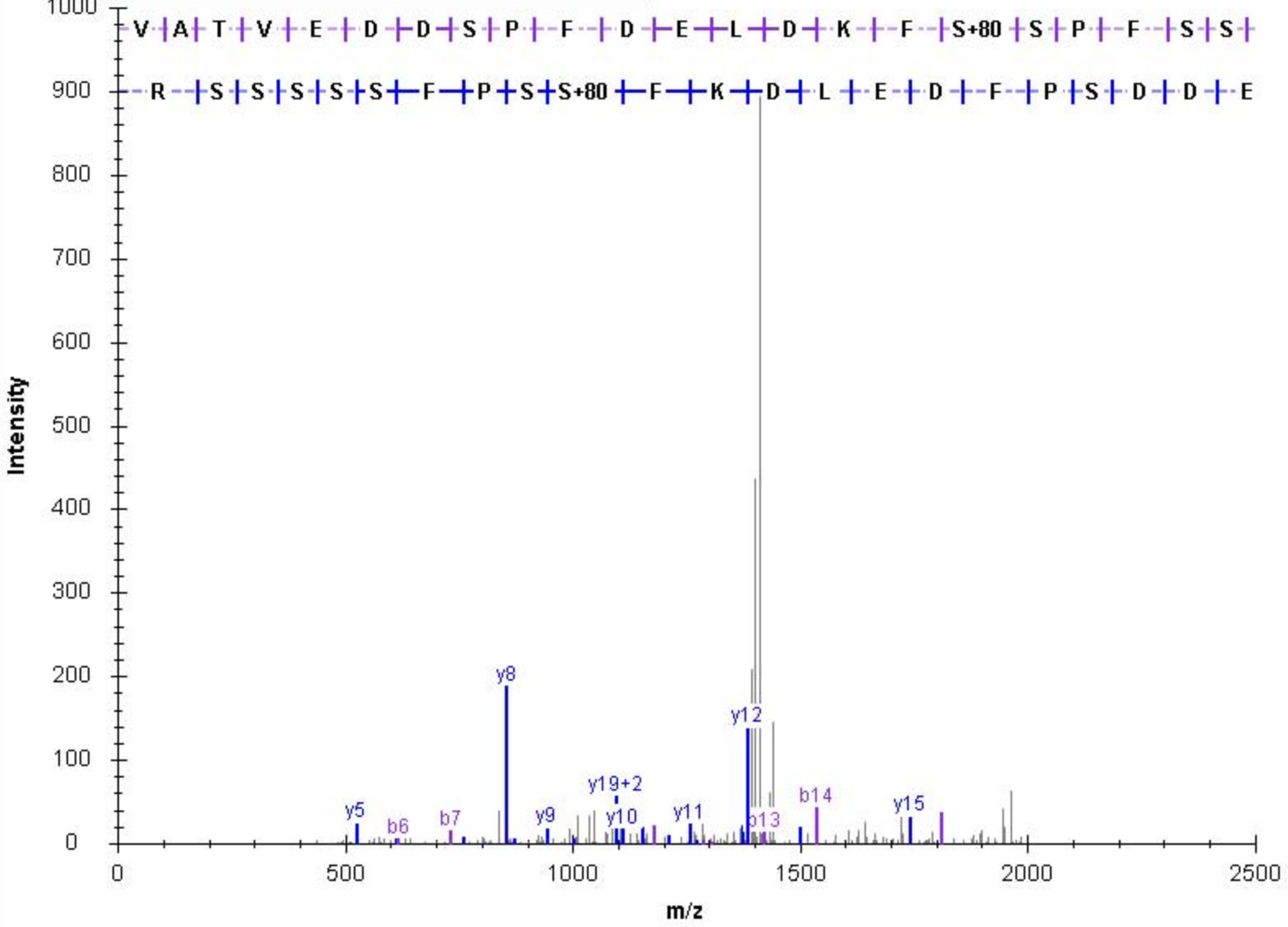
b	b(+2)			y	y(+2)	
100.076	50.541	1	V	26	2916.280	1458.643
171.113	86.060	2	A	25	2817.211	1409.109
272.160	136.584	3	T	24	2746.174	1373.591
371.229	186.118	4	V	23	2645.126	1323.067
500.271	250.639	5	E	22	2546.058	1273.533
615.298	308.153	6	D	21	2417.015	1209.011
730.325	365.666	7	D	20	2301.988	1151.498
817.357	409.182	8	S	19	2186.961	1093.984
914.410	457.709	9	P	18	2099.929	1050.468
1061.479	531.243	10	F	17	2002.877	1001.942
1176.506	588.756	11	D	16	1855.808	928.408
1305.548	653.278	12	E	15	1740.781	870.894
1418.632	709.820	13	L	14	1611.739	806.373
1533.659	767.333	14	D	13	1498.655	749.831
1661.754	831.381	15	K	12	1383.628	692.317
1808.823	904.915	16	F	11	1255.533	628.270
1895.855	948.431	17	S	10	1108.464	554.736
2062.887	1031.947	18	S	9	1021.432	511.220
2159.939	1080.473	19	P	8	854.400	427.704
2307.008	1154.008	20	F	7	757.348	379.177
2394.040	1197.524	21	S	6	610.279	305.643
2481.072	1241.040	22	S	5	523.247	262.127
2568.104	1284.556	23	S	4	436.215	218.611
2655.136	1328.072	24	S	3	349.183	175.095
2742.168	1371.588	25	S	2	262.151	131.579
2898.269	1449.638	26	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11486



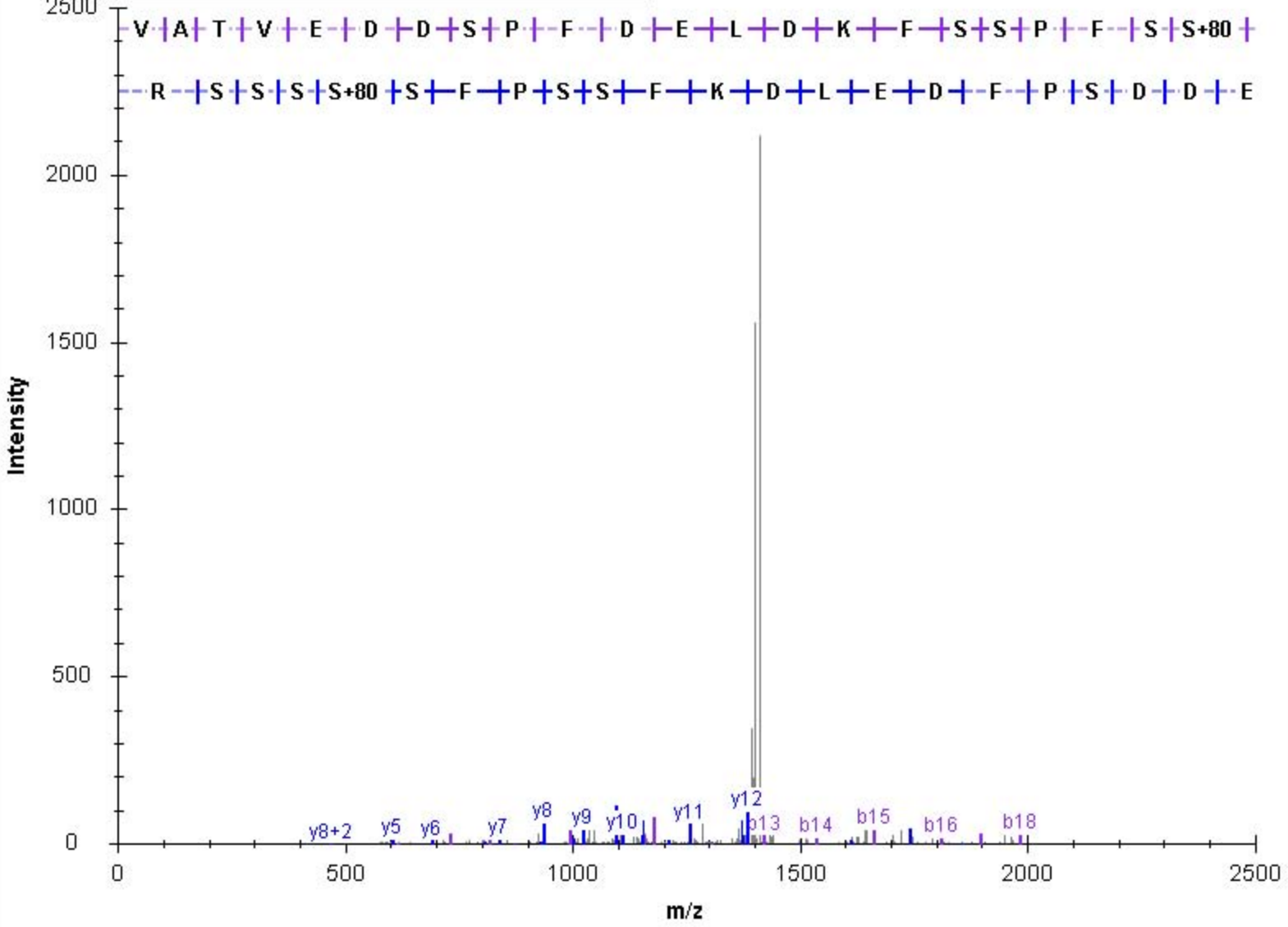
b	b(+2)			y	y(+2)	
100.076	50.541	1	V	26	2916.280	1458.643
171.113	86.060	2	A	25	2817.211	1409.109
272.160	136.584	3	T	24	2746.174	1373.591
371.229	186.118	4	V	23	2645.126	1323.067
500.271	250.639	5	E	22	2546.058	1273.533
615.298	308.153	6	D	21	2417.015	1209.011
730.325	365.666	7	D	20	2301.988	1151.498
817.357	409.182	8	S	19	2186.961	1093.984
914.410	457.709	9	P	18	2099.929	1050.468
1061.479	531.243	10	F	17	2002.877	1001.942
1176.506	588.756	11	D	16	1855.808	928.408
1305.548	653.278	12	E	15	1740.781	870.894
1418.632	709.820	13	L	14	1611.739	806.373
1533.659	767.333	14	D	13	1498.655	749.831
1661.754	831.381	15	K	12	1383.628	692.317
1808.823	904.915	16	F	11	1255.533	628.270
1975.855	988.431	17	S	10	1108.464	554.736
2062.887	1031.947	18	S	9	941.432	471.220
2159.939	1080.473	19	P	8	854.400	427.704
2307.008	1154.008	20	F	7	757.348	379.177
2394.040	1197.524	21	S	6	610.279	305.643
2481.072	1241.040	22	S	5	523.247	262.127
2568.104	1284.556	23	S	4	436.215	218.611
2655.136	1328.072	24	S	3	349.183	175.095
2742.168	1371.588	25	S	2	262.151	131.579
2898.269	1449.638	26	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11504



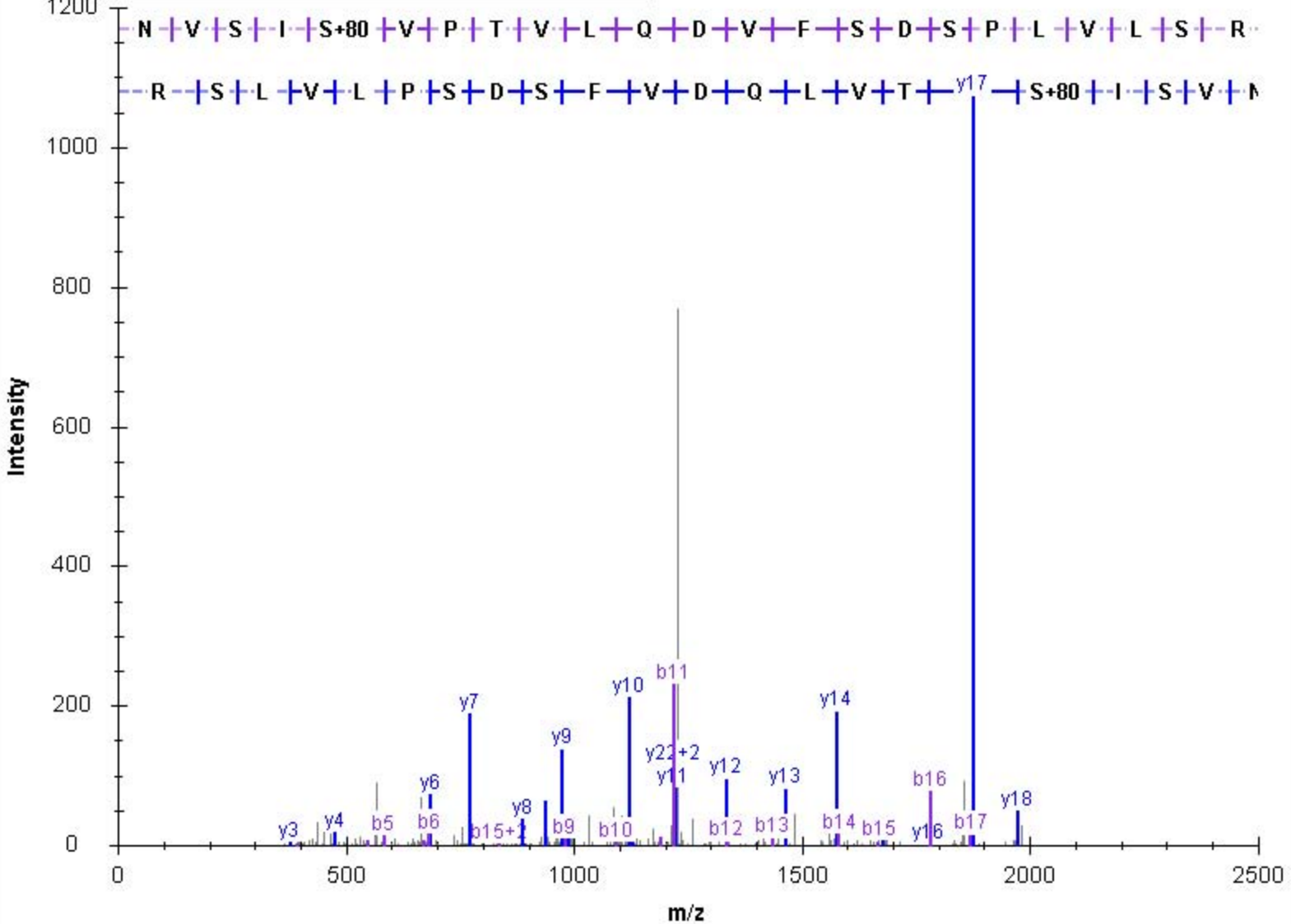
b	b(+2)			y	y(+2)	
100.076	50.541	1	V	26	2916.280	1458.643
171.113	86.060	2	A	25	2817.211	1409.109
272.160	136.584	3	T	24	2746.174	1373.591
371.229	186.118	4	V	23	2645.126	1323.067
500.271	250.639	5	E	22	2546.058	1273.533
615.298	308.153	6	D	21	2417.015	1209.011
730.325	365.666	7	D	20	2301.988	1151.498
817.357	409.182	8	S	19	2186.961	1093.984
914.410	457.709	9	P	18	2099.929	1050.468
1061.479	531.243	10	F	17	2002.877	1001.942
1176.506	588.756	11	D	16	1855.808	928.408
1305.548	653.278	12	E	15	1740.781	870.894
1418.632	709.820	13	L	14	1611.739	806.373
1533.659	767.333	14	D	13	1498.655	749.831
1661.754	831.381	15	K	12	1383.628	692.317
1808.823	904.915	16	F	11	1255.533	628.270
1895.855	948.431	17	S	10	1108.464	554.736
1982.887	991.947	18	S	9	1021.432	511.220
2079.939	1040.473	19	P	8	934.400	467.704
2227.008	1114.008	20	F	7	837.348	419.177
2314.040	1157.524	21	S	6	690.279	345.643
2481.072	1241.040	22	S	5	603.247	302.127
2568.104	1284.556	23	S	4	436.215	218.611
2655.136	1328.072	24	S	3	349.183	175.095
2742.168	1371.588	25	S	2	262.151	131.579
2898.269	1449.638	26	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=14599



b	b(+2)				y	y(+2)
115.050	58.029	1	N	23	2552.334	1276.671
214.119	107.563	2	V	22	2438.292	1219.649
301.151	151.079	3	S	21	2339.223	1170.115
414.235	207.621	4	I	20	2252.191	1126.599
581.267	291.137	5	S	19	2139.107	1070.057
680.335	340.671	6	V	18	1972.075	986.541
777.388	389.198	7	P	17	1873.007	937.007
878.436	439.721	8	T	16	1775.954	888.481
977.504	489.256	9	V	15	1674.906	837.957
1090.588	545.798	10	L	14	1575.838	788.422
1218.647	609.827	11	Q	13	1462.754	731.880
1333.674	667.340	12	D	12	1334.695	667.851
1432.742	716.875	13	V	11	1219.668	610.338
1579.810	790.409	14	F	10	1120.600	560.803
1666.842	833.925	15	S	9	973.531	487.269
1781.869	891.438	16	D	8	886.499	443.753
1868.901	934.954	17	S	7	771.472	386.240
1965.954	983.481	18	P	6	684.440	342.724
2079.038	1040.023	19	L	5	587.388	294.197
2178.107	1089.557	20	V	4	474.303	237.655
2291.191	1146.099	21	L	3	375.235	188.121
2378.223	1189.615	22	S	2	262.151	131.579
2534.324	1267.666	23	R	1	175.119	88.063

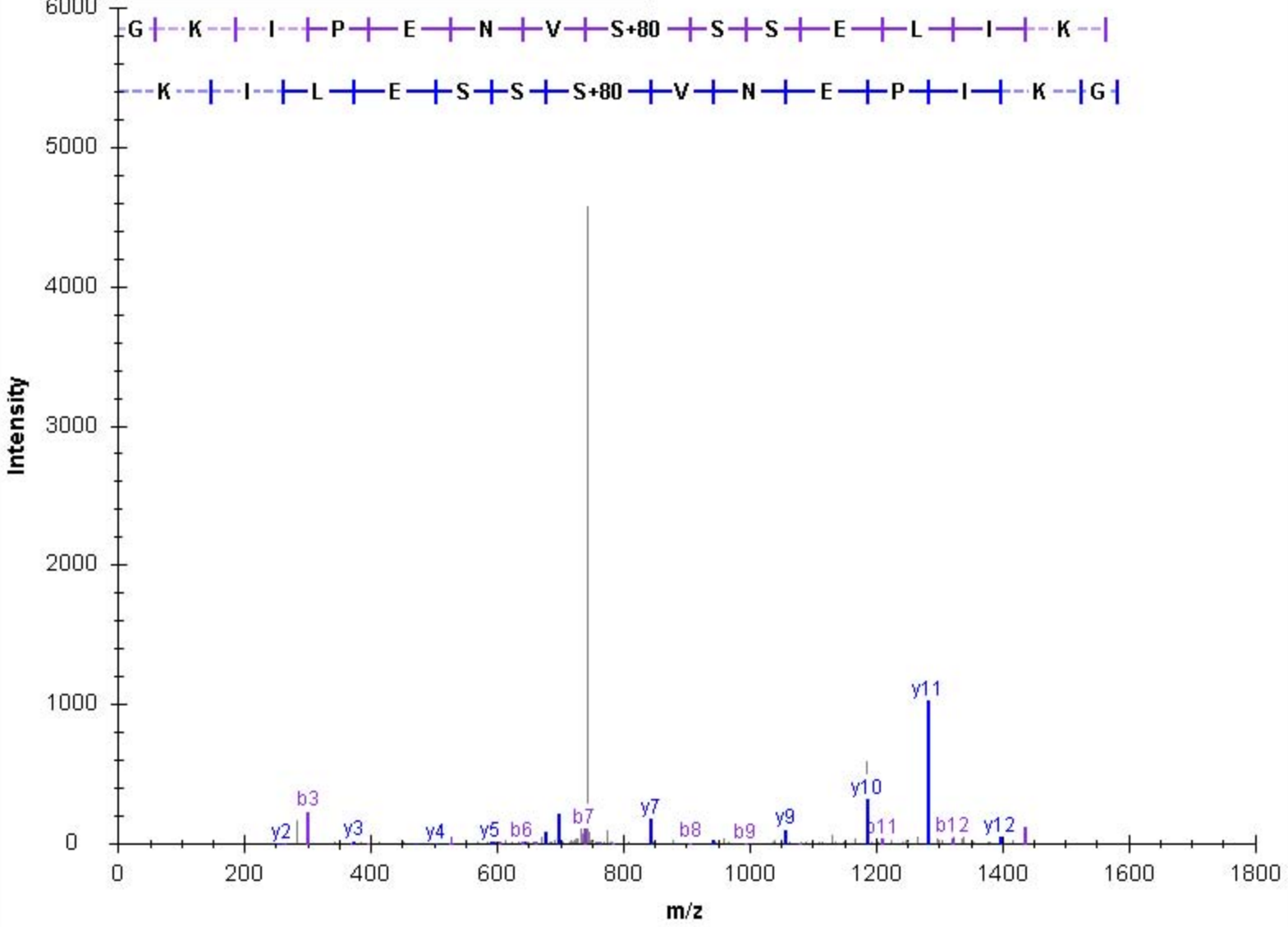
controllerType=0 controllerNumber=1 scan=13304



N V S I S+80 V P T V L Q D V F S D S P L V L S R
R S L V L P S D S F V D Q L V T S+80 I S V M

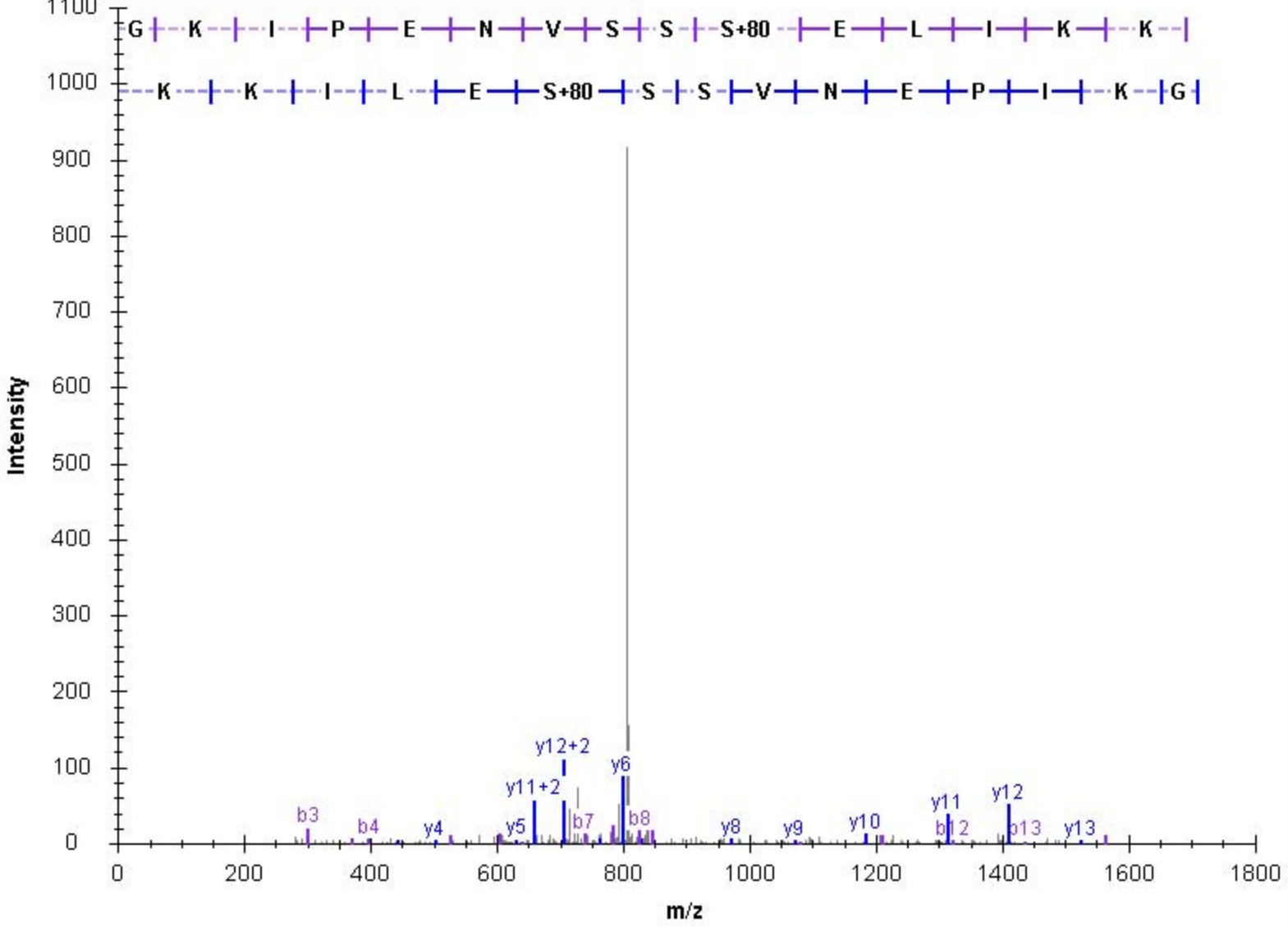
b	b(+2)				y	y(+2)
58.029	29.518	1	G	14	1580.827	790.917
186.124	93.565	2	K	13	1523.805	762.406
299.208	150.108	3	I	12	1395.710	698.359
396.261	198.634	4	P	11	1282.626	641.817
525.303	263.155	5	E	10	1185.574	593.290
639.346	320.177	6	N	9	1056.531	528.769
738.414	369.711	7	V	8	942.488	471.748
905.446	453.227	8	S	7	843.420	422.213
992.479	496.743	9	S	6	676.388	338.697
1079.511	540.259	10	S	5	589.356	295.181
1208.553	604.780	11	E	4	502.324	251.665
1321.637	661.322	12	L	3	373.281	187.144
1434.721	717.864	13	I	2	260.197	130.602
1562.816	781.912	14	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=10650



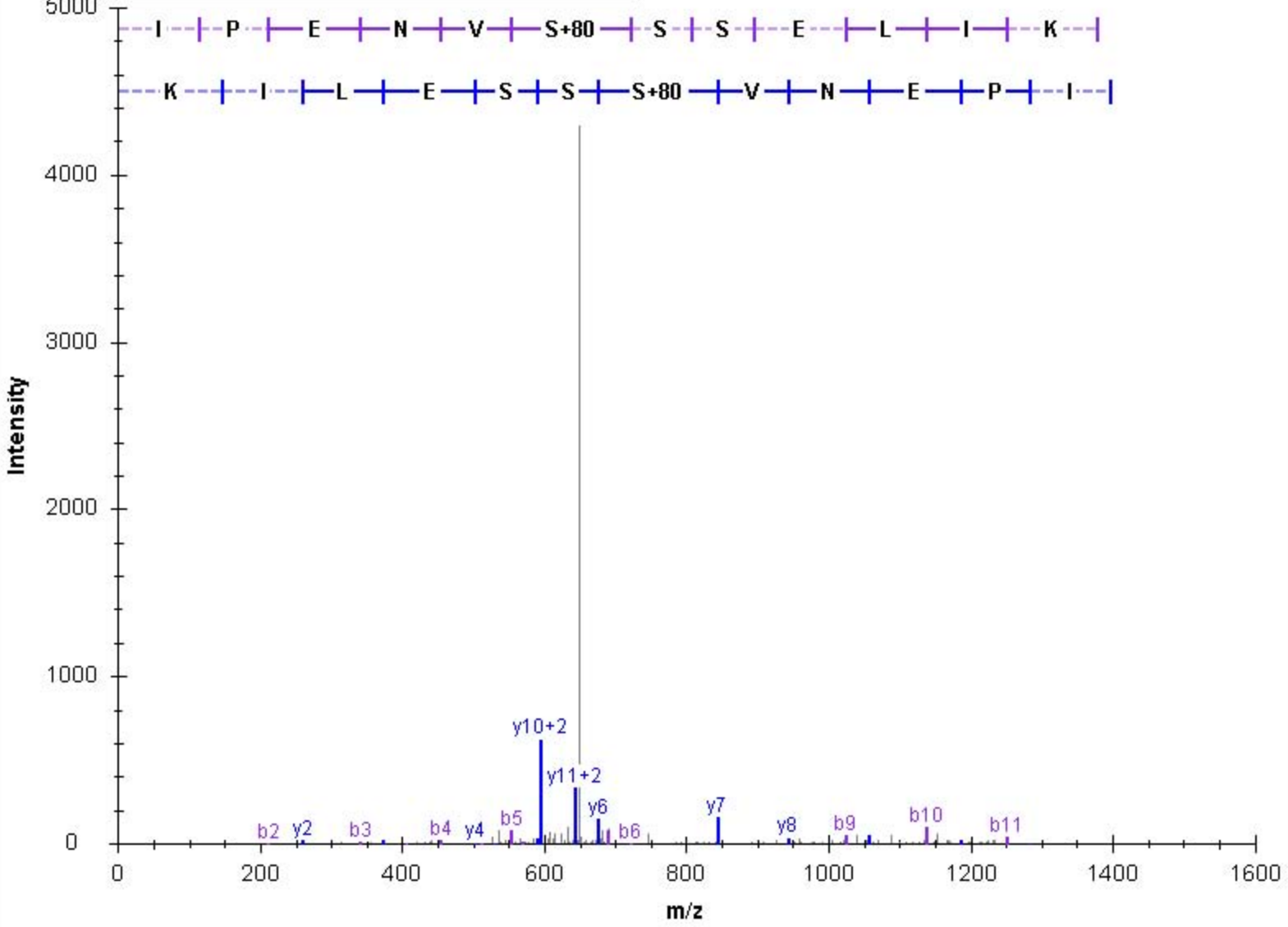
b	b(+2)				y	y(+2)
58.029	29.518	1	G	15	1708.922	854.965
186.124	93.565	2	K	14	1651.900	826.454
299.208	150.108	3	I	13	1523.805	762.406
396.261	198.634	4	P	12	1410.721	705.864
525.303	263.155	5	E	11	1313.669	657.338
639.346	320.177	6	N	10	1184.626	592.817
738.414	369.711	7	V	9	1070.583	535.795
825.446	413.227	8	S	8	971.515	486.261
912.479	456.743	9	S	7	884.483	442.745
1079.511	540.259	10	S	6	797.451	399.229
1208.553	604.780	11	E	5	630.418	315.713
1321.637	661.322	12	L	4	501.376	251.192
1434.721	717.864	13	I	3	388.292	194.650
1562.816	781.912	14	K	2	275.208	138.108
1690.911	845.959	15	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8203

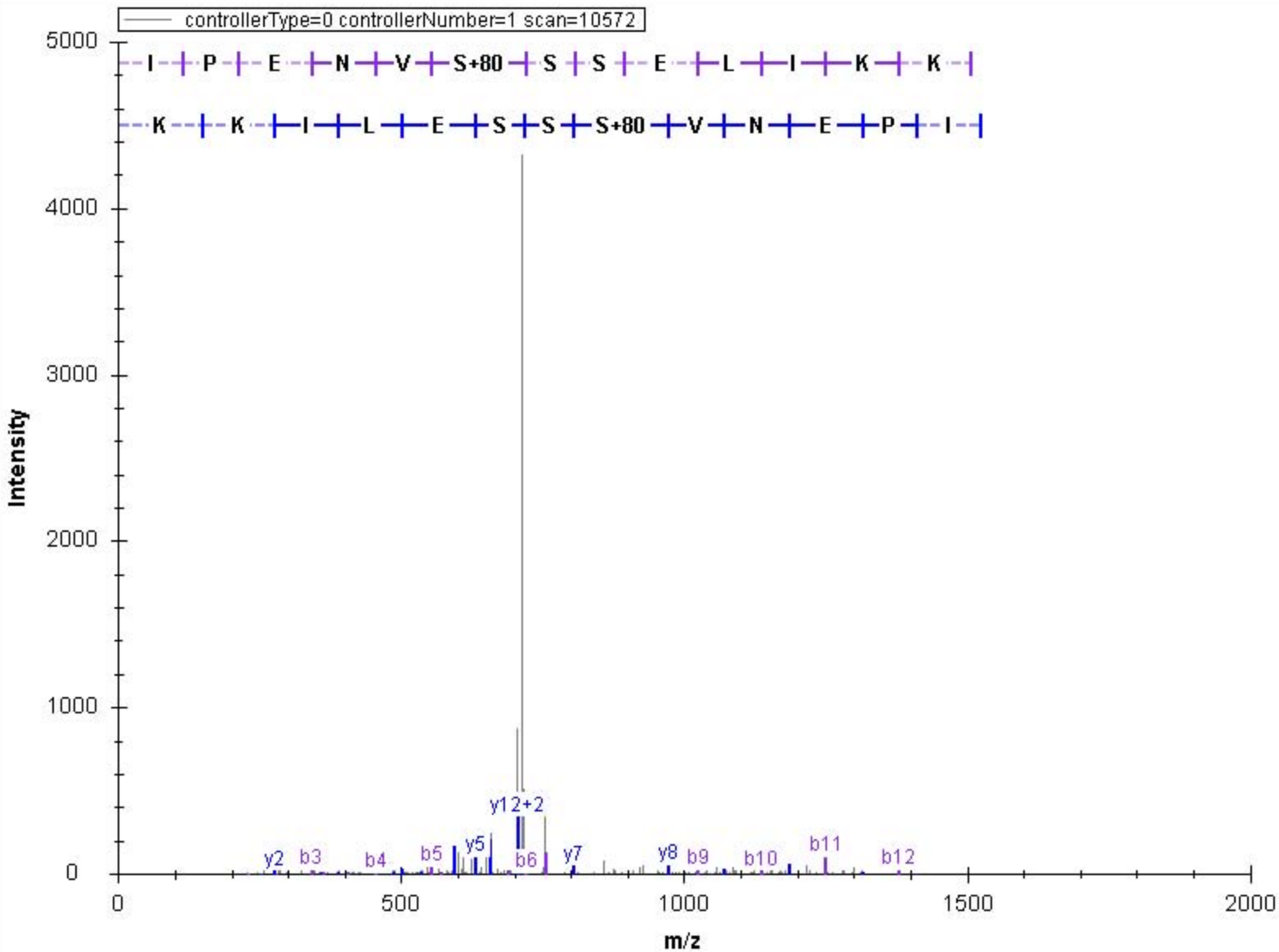


b	b(+2)				y	y(+2)
114.091	57.549	1	I	12	1395.710	698.359
211.144	106.076	2	P	11	1282.626	641.817
340.187	170.597	3	E	10	1185.574	593.290
454.230	227.618	4	N	9	1056.531	528.769
553.298	277.153	5	V	8	942.488	471.748
720.330	360.669	6	S	7	843.420	422.213
807.362	404.185	7	S	6	676.388	338.697
894.394	447.701	8	S	5	589.356	295.181
1023.437	512.222	9	E	4	502.324	251.665
1136.521	568.764	10	L	3	373.281	187.144
1249.605	625.306	11	I	2	260.197	130.602
1377.700	689.354	12	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9744

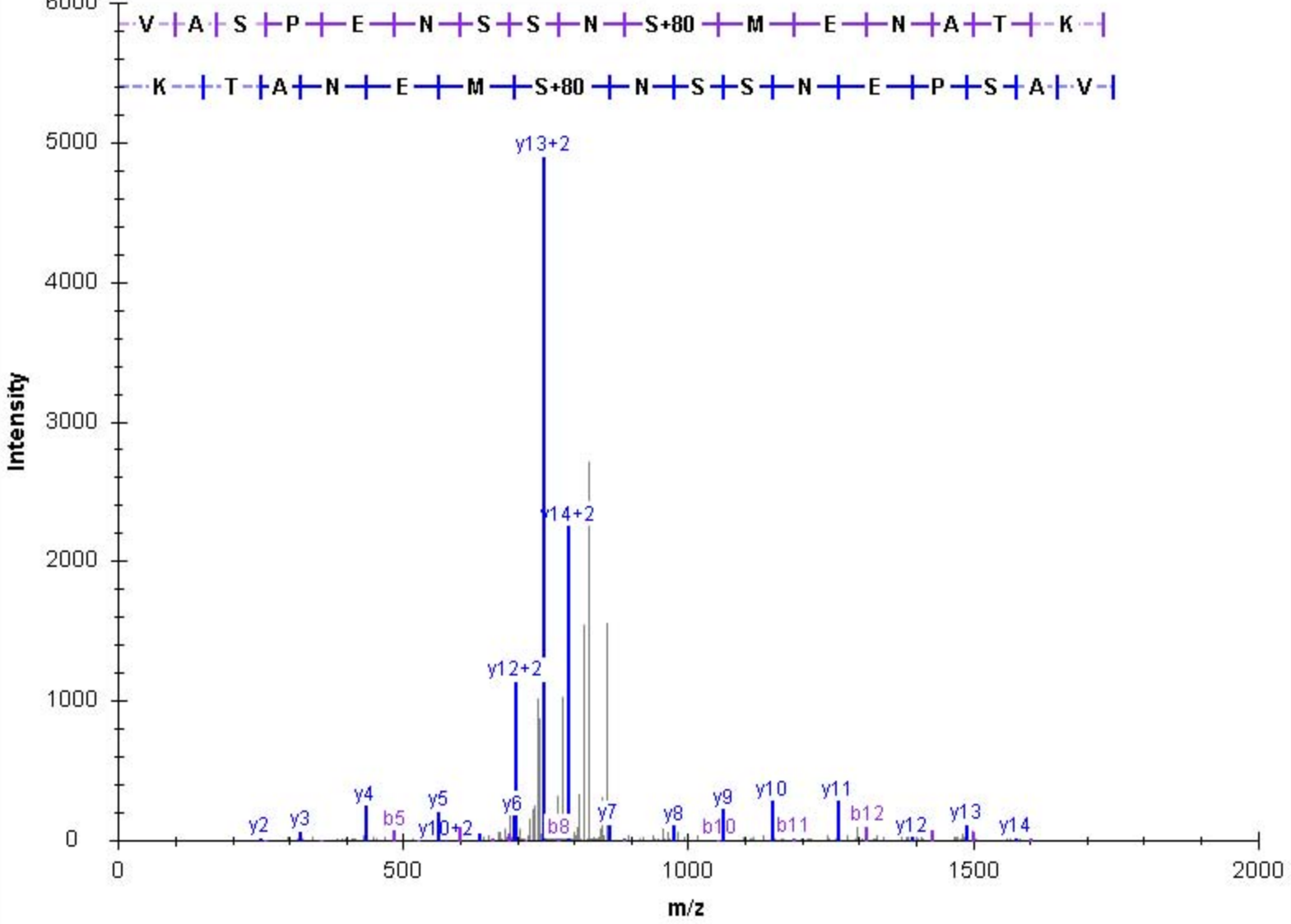


b	b(+2)				y	y(+2)
114.091	57.549	1	I	13	1523.805	762.406
211.144	106.076	2	P	12	1410.721	705.864
340.187	170.597	3	E	11	1313.669	657.338
454.230	227.618	4	N	10	1184.626	592.817
553.298	277.153	5	V	9	1070.583	535.795
720.330	360.669	6	S	8	971.515	486.261
807.362	404.185	7	S	7	804.483	402.745
894.394	447.701	8	S	6	717.451	359.229
1023.437	512.222	9	E	5	630.418	315.713
1136.521	568.764	10	L	4	501.376	251.192
1249.605	625.306	11	I	3	388.292	194.650
1377.700	689.354	12	K	2	275.208	138.108
1505.795	753.401	13	K	1	147.113	74.060



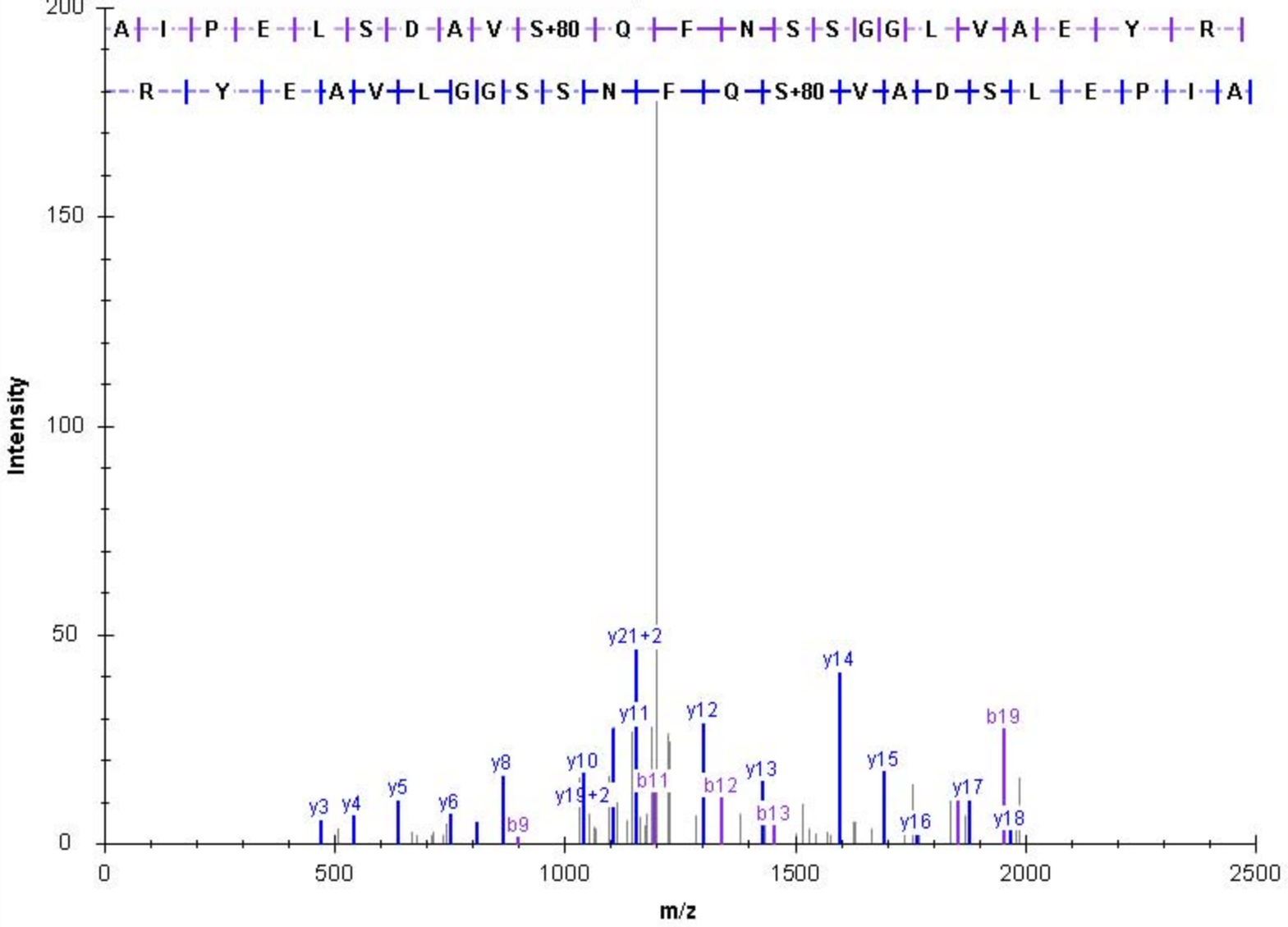
b	b(+2)				y	y(+2)
100.076	50.541	1	V	16	1745.738	873.373
171.113	86.060	2	A	15	1646.670	823.839
258.145	129.576	3	S	14	1575.633	788.320
355.198	178.102	4	P	13	1488.601	744.804
484.240	242.624	5	E	12	1391.548	696.278
598.283	299.645	6	N	11	1262.506	631.756
685.315	343.161	7	S	10	1148.463	574.735
772.347	386.677	8	S	9	1061.431	531.219
886.390	443.699	9	N	8	974.399	487.703
1053.422	527.215	10	S	7	860.356	430.681
1184.463	592.735	11	M	6	693.324	347.165
1313.505	657.256	12	E	5	562.283	281.645
1427.548	714.278	13	N	4	433.241	217.124
1498.585	749.796	14	A	3	319.198	160.102
1599.633	800.320	15	T	2	248.160	124.584
1727.728	864.368	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7173



b	b(+2)			y	y(+2)	
72.044	36.526	1	A	23	2490.188	1245.598
185.128	93.068	2	I	22	2419.151	1210.079
282.181	141.594	3	P	21	2306.067	1153.537
411.224	206.116	4	E	20	2209.015	1105.011
524.308	262.658	5	L	19	2079.972	1040.490
611.340	306.174	6	S	18	1966.888	983.948
726.367	363.687	7	D	17	1879.856	940.432
797.404	399.206	8	A	16	1764.829	882.918
896.472	448.740	9	V	15	1693.792	847.400
1063.504	532.256	10	S	14	1594.723	797.865
1191.563	596.285	11	Q	13	1427.691	714.349
1338.631	669.819	12	F	12	1299.633	650.320
1452.674	726.841	13	N	11	1152.564	576.786
1539.706	770.357	14	S	10	1038.521	519.764
1626.738	813.873	15	S	9	951.489	476.248
1683.760	842.384	16	G	8	864.457	432.732
1740.781	870.894	17	G	7	807.436	404.222
1853.865	927.436	18	L	6	750.414	375.711
1952.934	976.971	19	V	5	637.330	319.169
2023.971	1012.489	20	A	4	538.262	269.635
2153.013	1077.010	21	E	3	467.225	234.116
2316.077	1158.542	22	Y	2	338.182	169.595
2472.178	1236.593	23	R	1	175.119	88.063

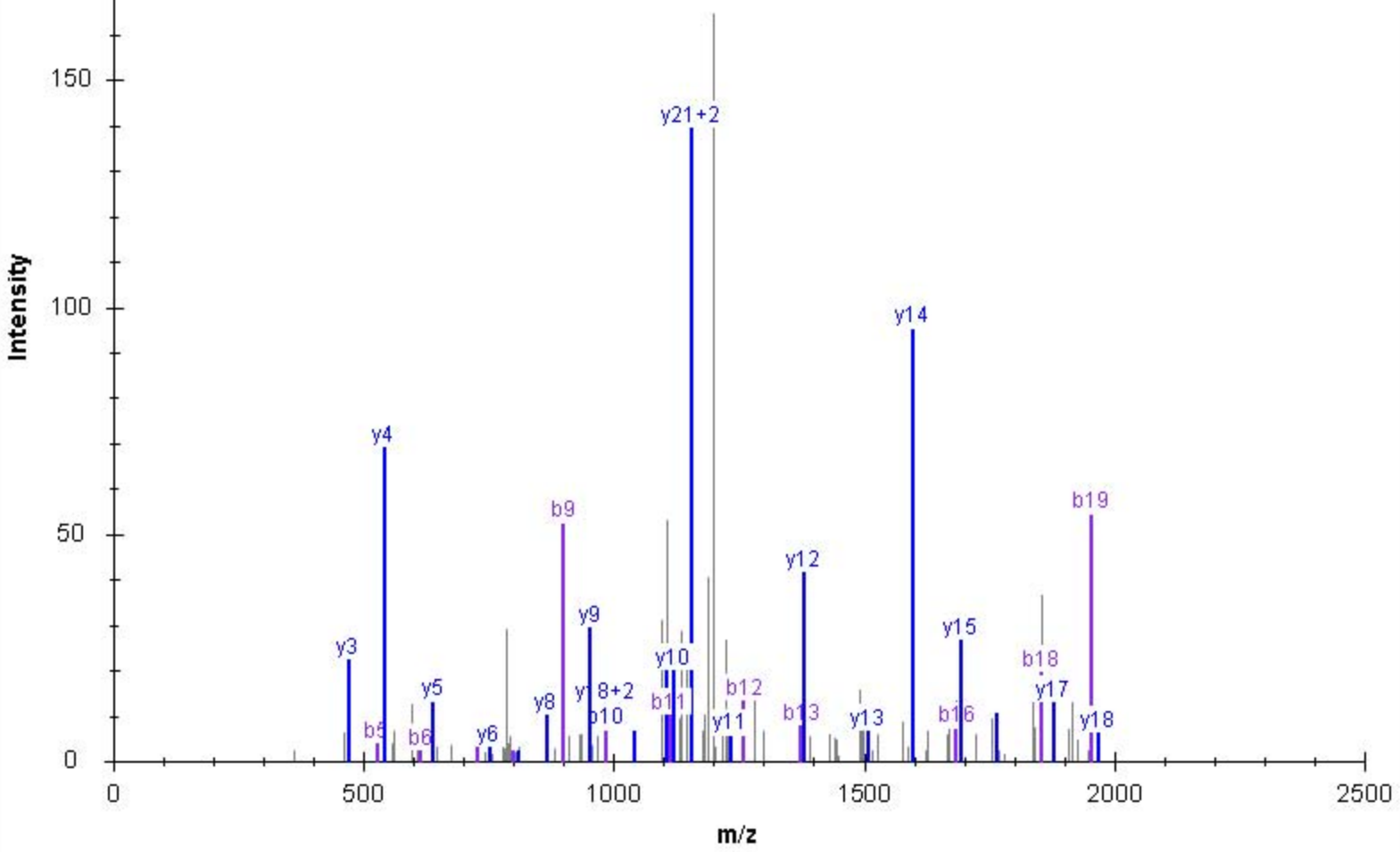
controllerType=0 controllerNumber=1 scan=18272



b	b(+2)				y	y(+2)
72.044	36.526	1	A	23	2490.188	1245.598
185.128	93.068	2	I	22	2419.151	1210.079
282.181	141.594	3	P	21	2306.067	1153.537
411.224	206.116	4	E	20	2209.015	1105.011
524.308	262.658	5	L	19	2079.972	1040.490
611.340	306.174	6	S	18	1966.888	983.948
726.367	363.687	7	D	17	1879.856	940.432
797.404	399.206	8	A	16	1764.829	882.918
896.472	448.740	9	V	15	1693.792	847.400
983.504	492.256	10	S	14	1594.723	797.865
1111.563	556.285	11	Q	13	1507.691	754.349
1258.631	629.819	12	F	12	1379.633	690.320
1372.674	686.841	13	N	11	1232.564	616.786
1539.706	770.357	14	S	10	1118.521	559.764
1626.738	813.873	15	S	9	951.489	476.248
1683.760	842.384	16	G	8	864.457	432.732
1740.781	870.894	17	G	7	807.436	404.222
1853.865	927.436	18	L	6	750.414	375.711
1952.934	976.971	19	V	5	637.330	319.169
2023.971	1012.489	20	A	4	538.262	269.635
2153.013	1077.010	21	E	3	467.225	234.116
2316.077	1158.542	22	Y	2	338.182	169.595
2472.178	1236.593	23	R	1	175.119	88.063

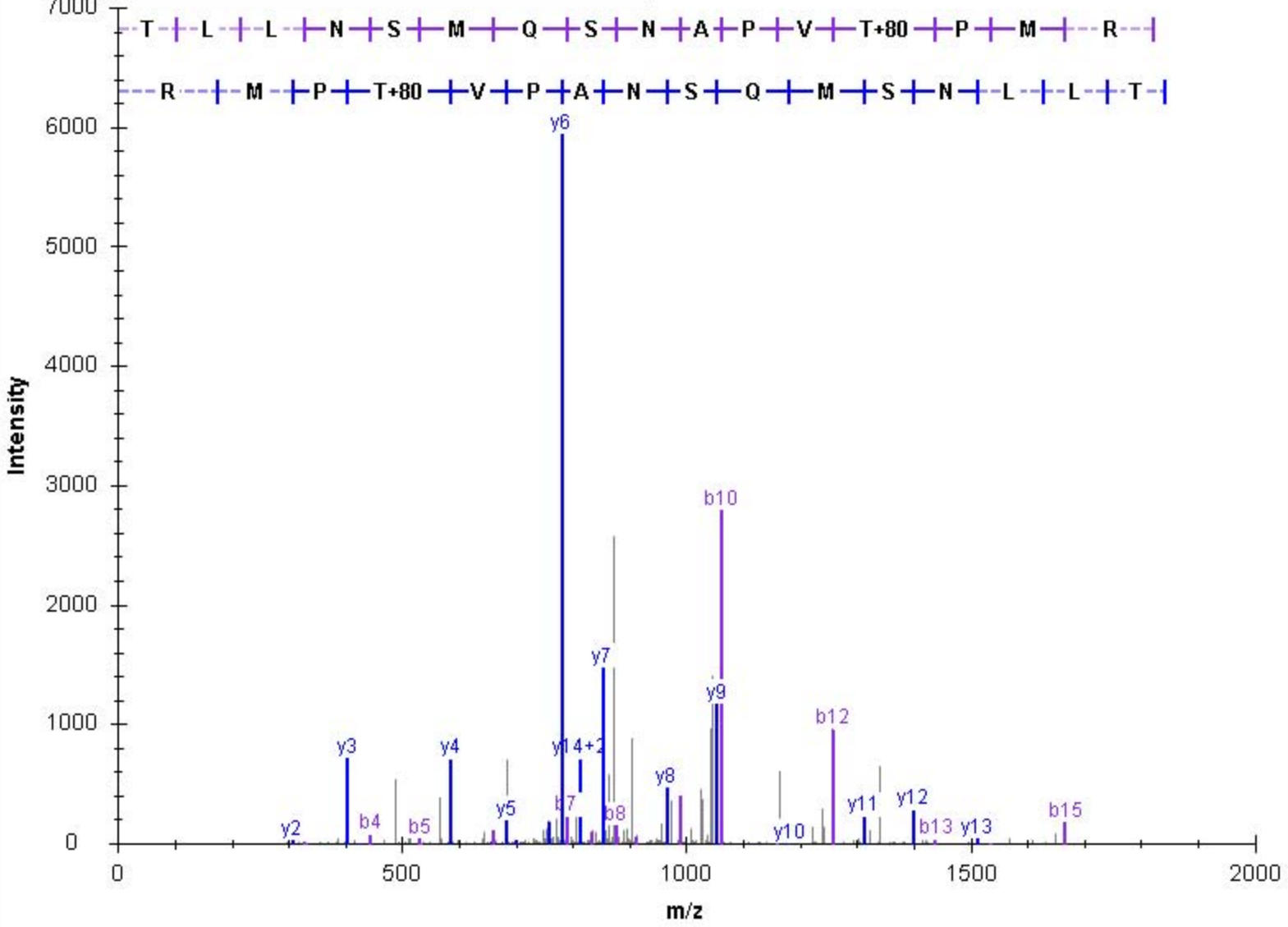
controllerType=0 controllerNumber=1 scan=18122

A-I-P-E-L-S-D-A-V-S-Q-F-N-S+80-S-G-G-L-V-A-E-Y-R
R-Y-E-A-V-L-G-G-S-S+80-N-F-Q-S-V-A-D-S-L-E-P-I-A



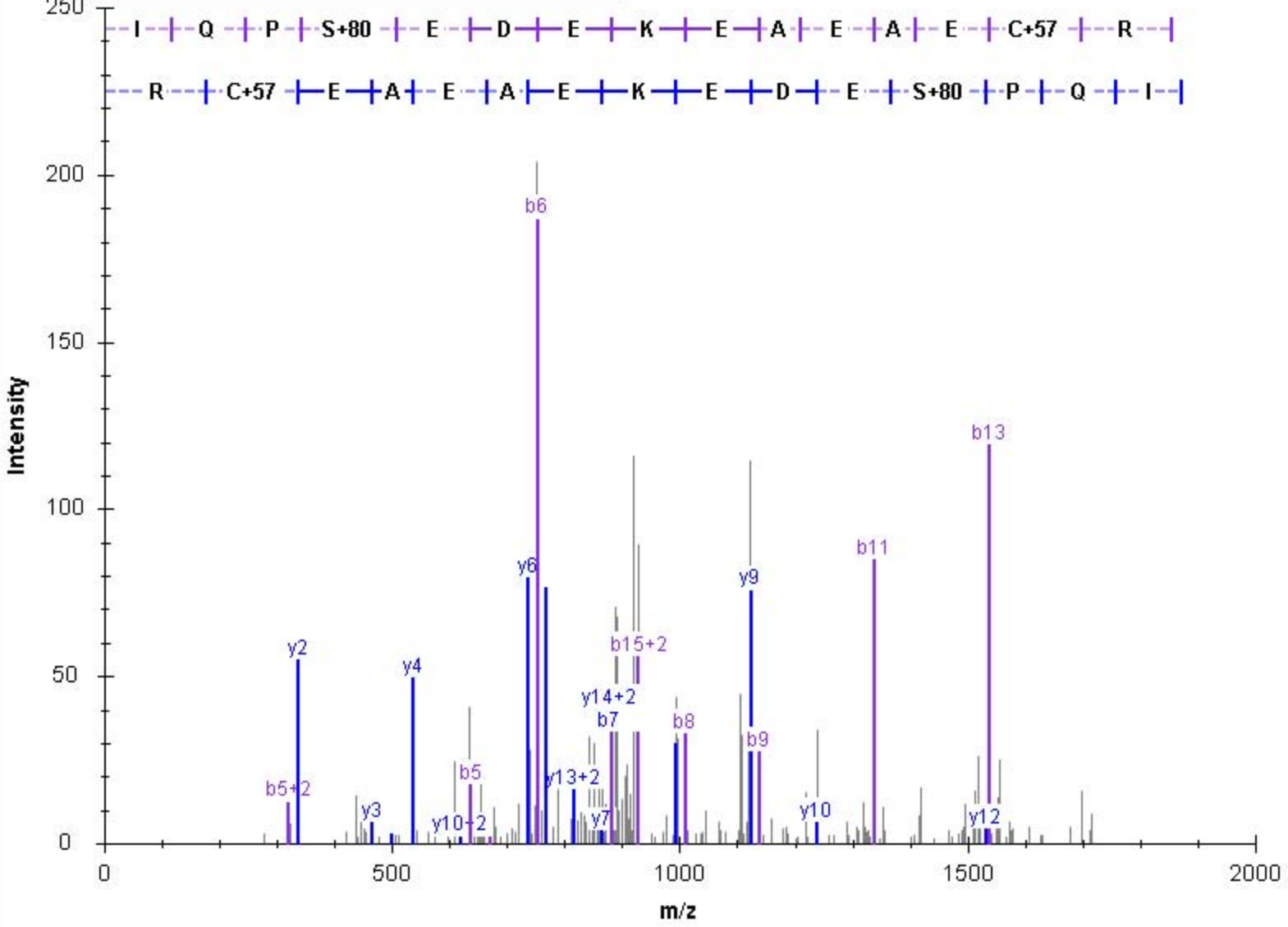
b	b(+2)				y	y(+2)
102.055	51.531	1	T	16	1839.883	920.445
215.139	108.073	2	L	15	1738.835	869.921
328.223	164.615	3	L	14	1625.751	813.379
442.266	221.637	4	N	13	1512.667	756.837
529.298	265.153	5	S	12	1398.624	699.816
660.339	330.673	6	M	11	1311.592	656.300
788.397	394.702	7	Q	10	1180.552	590.779
875.429	438.218	8	S	9	1052.493	526.750
989.472	495.240	9	N	8	965.461	483.234
1060.509	530.758	10	A	7	851.418	426.213
1157.562	579.285	11	P	6	780.381	390.694
1256.630	628.819	12	V	5	683.328	342.168
1437.678	719.343	13	T	4	584.260	292.634
1534.731	767.869	14	P	3	403.212	202.110
1665.771	833.389	15	M	2	306.159	153.583
1821.872	911.440	16	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=15569



b	b(+2)				y	y(+2)
114.091	57.549	1	I	15	1870.765	935.886
242.150	121.579	2	Q	14	1757.681	879.344
339.203	170.105	3	P	13	1629.622	815.315
506.235	253.621	4	S	12	1532.569	766.788
635.277	318.142	5	E	11	1365.537	683.272
750.304	375.656	6	D	10	1236.495	618.751
879.347	440.177	7	E	9	1121.468	561.237
1007.442	504.225	8	K	8	992.425	496.716
1136.484	568.746	9	E	7	864.330	432.669
1207.522	604.264	10	A	6	735.288	368.147
1336.564	668.786	11	E	5	664.250	332.629
1407.601	704.304	12	A	4	535.208	268.108
1536.644	768.826	13	E	3	464.171	232.589
1696.653	848.830	14	C	2	335.128	168.068
1852.754	926.881	15	R	1	175.119	88.063

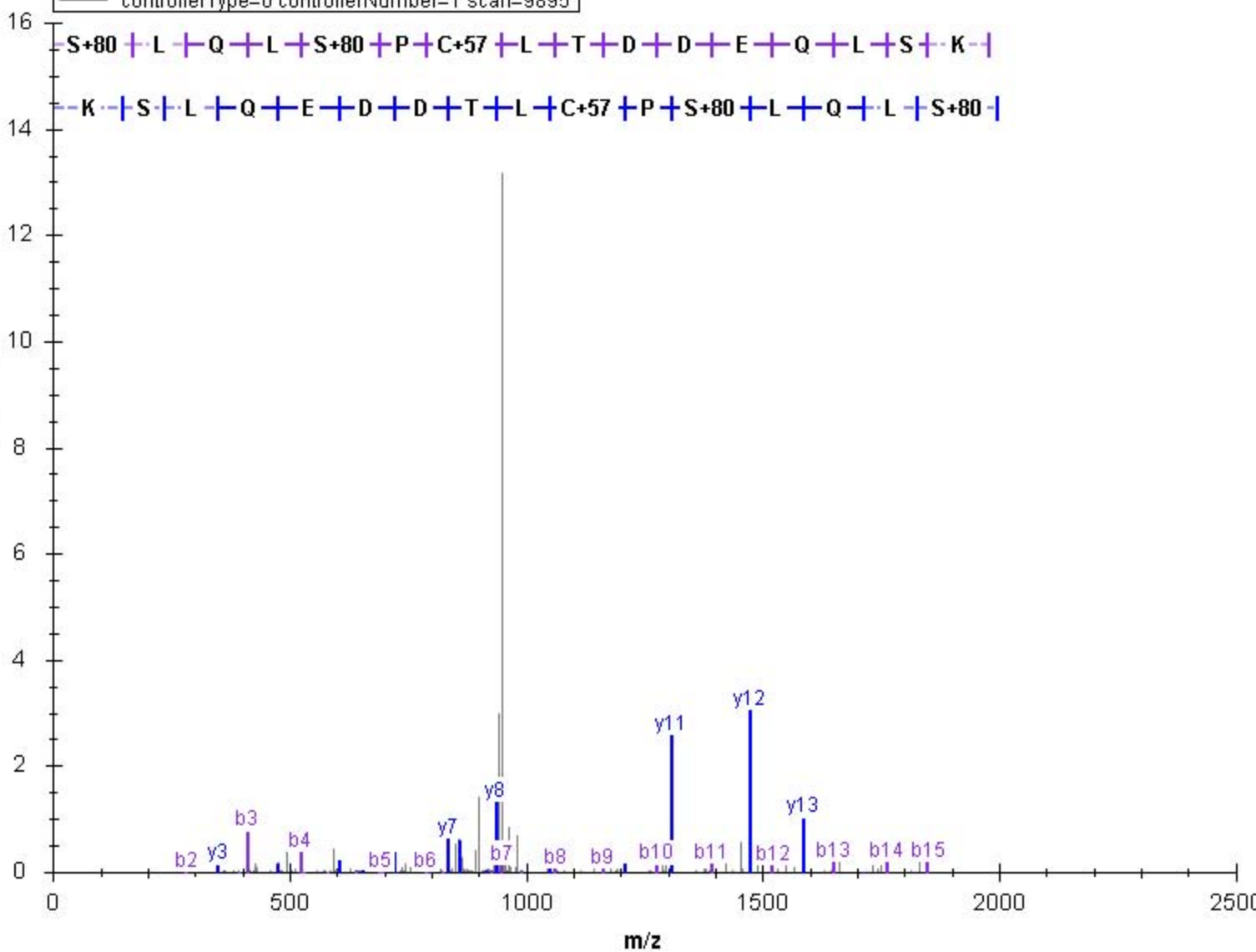
controllerType=0 controllerNumber=1 scan=9647



b	b(+2)				y	y(+2)
168.039	84.523	1	S	16	1993.868	997.438
281.123	141.065	2	L	15	1826.836	913.922
409.182	205.095	3	Q	14	1713.752	857.380
522.266	261.637	4	L	13	1585.694	793.351
689.298	345.153	5	S	12	1472.610	736.808
786.351	393.679	6	P	11	1305.578	653.292
946.360	473.684	7	C	10	1208.525	604.766
1059.444	530.226	8	L	9	1048.516	524.761
1160.492	580.750	9	T	8	935.432	468.219
1275.519	638.263	10	D	7	834.384	417.696
1390.546	695.776	11	D	6	719.357	360.182
1519.588	760.298	12	E	5	604.330	302.669
1647.647	824.327	13	Q	4	475.287	238.147
1760.731	880.869	14	L	3	347.229	174.118
1847.763	924.385	15	S	2	234.145	117.576
1975.858	988.433	16	K	1	147.113	74.060

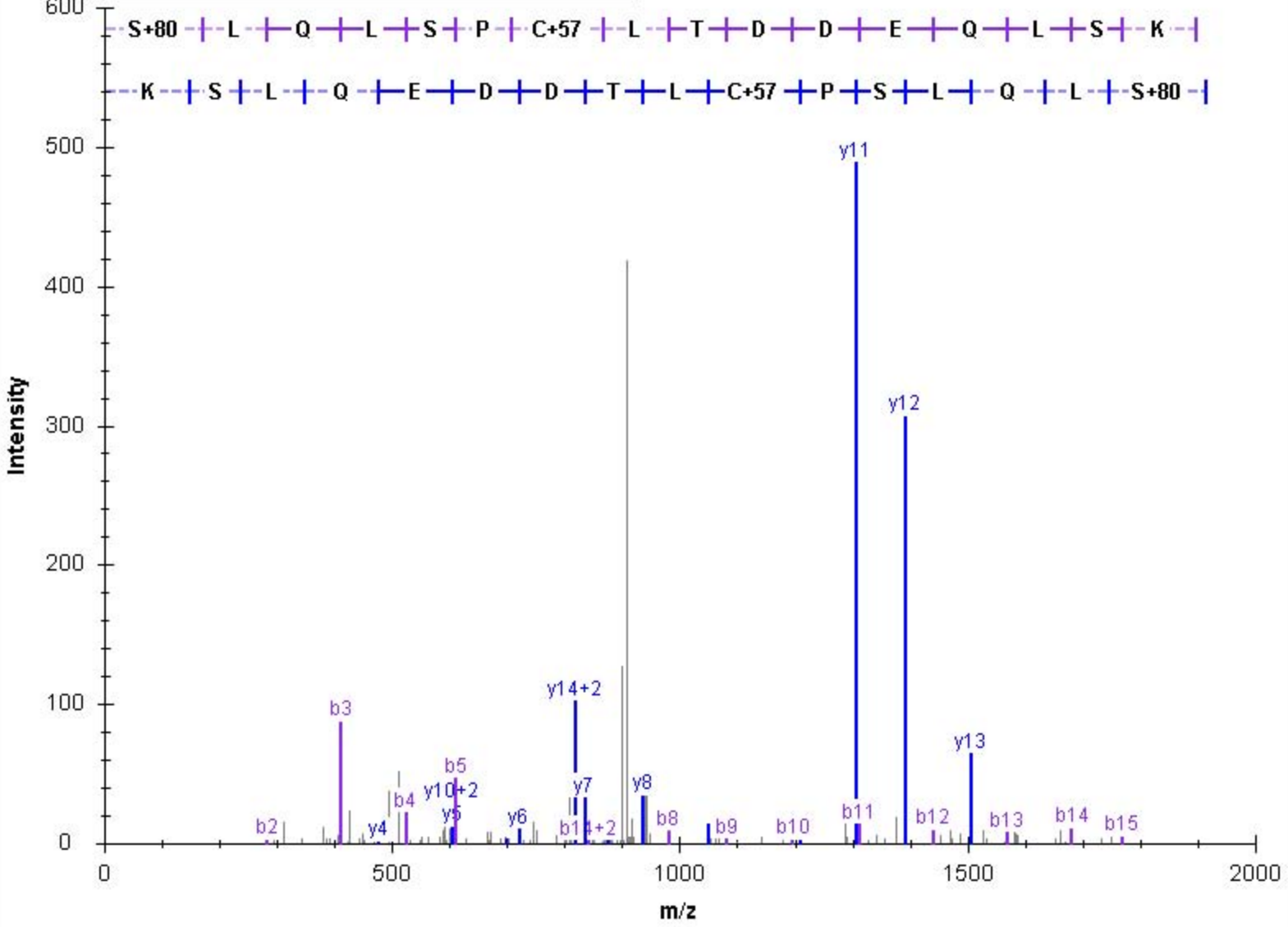
controllerType=0 controllerNumber=1 scan=9895

Intensity (10³)



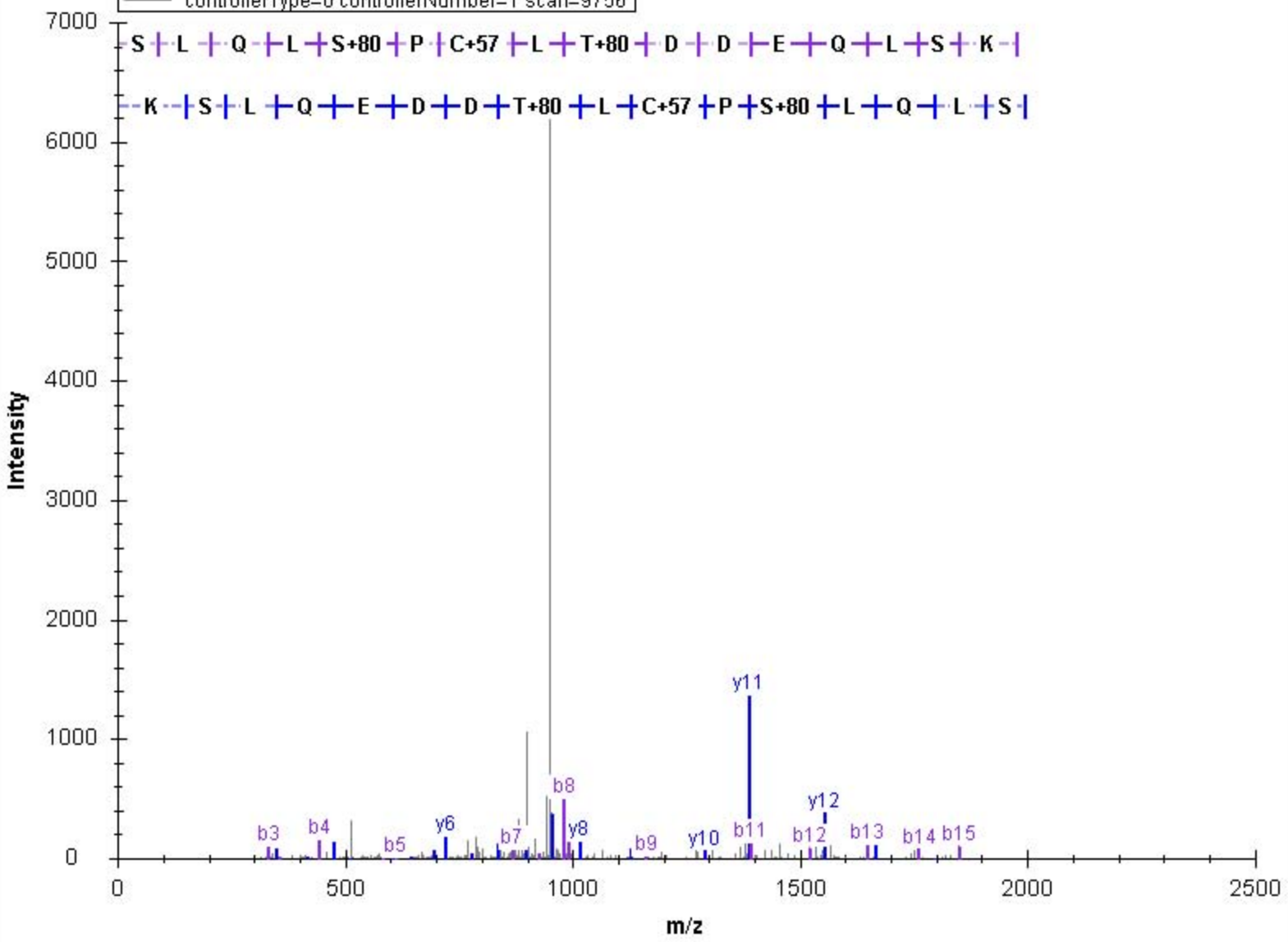
b	b(+2)				y	y(+2)
168.039	84.523	1	S	16	1913.868	957.438
281.123	141.065	2	L	15	1746.836	873.922
409.182	205.095	3	Q	14	1633.752	817.380
522.266	261.637	4	L	13	1505.694	753.351
609.298	305.153	5	S	12	1392.610	696.808
706.351	353.679	6	P	11	1305.578	653.292
866.360	433.684	7	C	10	1208.525	604.766
979.444	490.226	8	L	9	1048.516	524.761
1080.492	540.750	9	T	8	935.432	468.219
1195.519	598.263	10	D	7	834.384	417.696
1310.546	655.776	11	D	6	719.357	360.182
1439.588	720.298	12	E	5	604.330	302.669
1567.647	784.327	13	Q	4	475.287	238.147
1680.731	840.869	14	L	3	347.229	174.118
1767.763	884.385	15	S	2	234.145	117.576
1895.858	948.433	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=13954



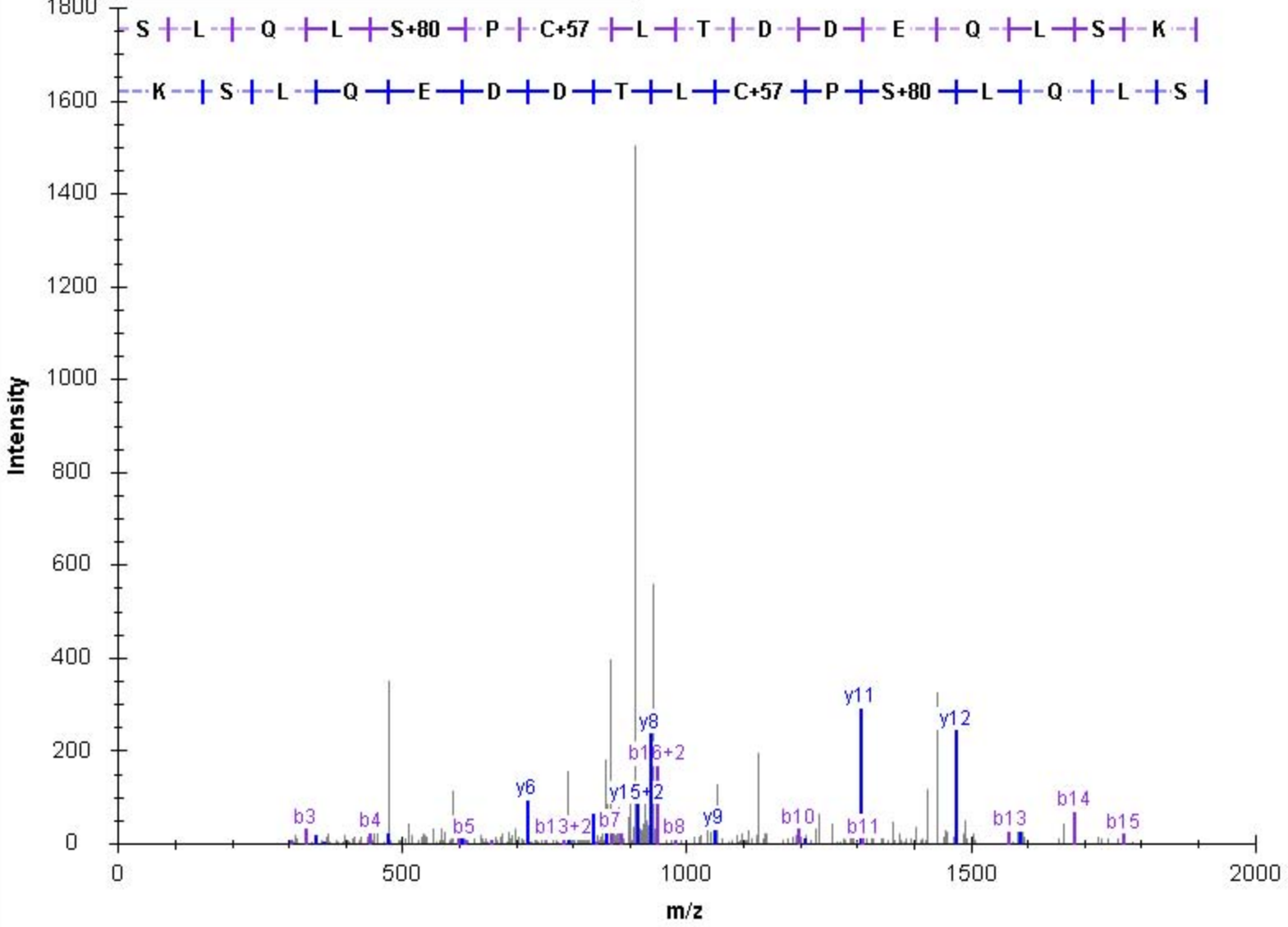
b	b(+2)				y	y(+2)
88.039	44.523	1	S	16	1993.868	997.438
201.123	101.065	2	L	15	1906.836	953.922
329.182	165.095	3	Q	14	1793.752	897.380
442.266	221.637	4	L	13	1665.694	833.351
609.298	305.153	5	S	12	1552.610	776.808
706.351	353.679	6	P	11	1385.578	693.292
866.360	433.684	7	C	10	1288.525	644.766
979.444	490.226	8	L	9	1128.516	564.761
1160.492	580.750	9	T	8	1015.432	508.219
1275.519	638.263	10	D	7	834.384	417.696
1390.546	695.776	11	D	6	719.357	360.182
1519.588	760.298	12	E	5	604.330	302.669
1647.647	824.327	13	Q	4	475.287	238.147
1760.731	880.869	14	L	3	347.229	174.118
1847.763	924.385	15	S	2	234.145	117.576
1975.858	988.433	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9756



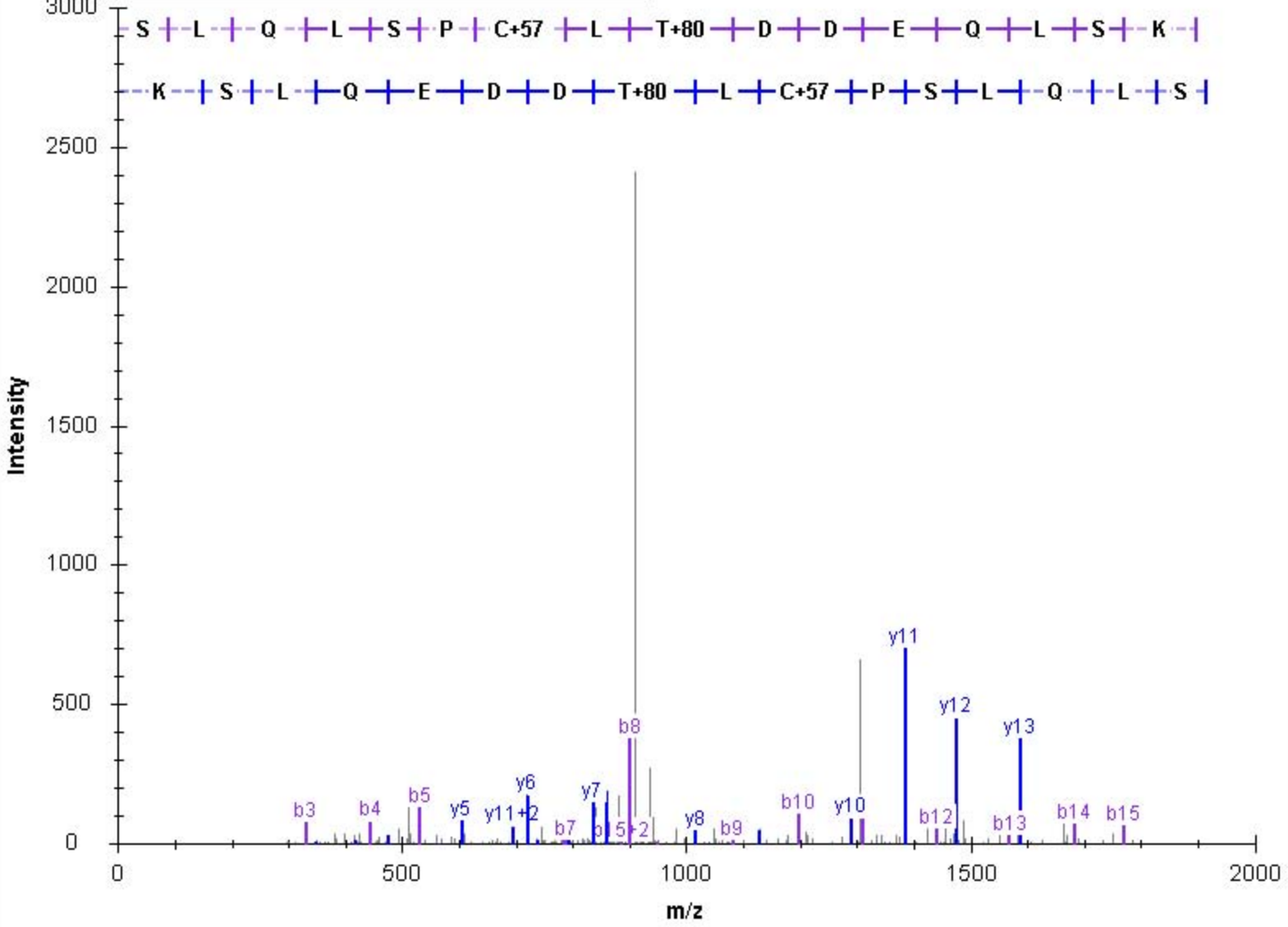
b	b(+2)				y	y(+2)
88.039	44.523	1	S	16	1913.868	957.438
201.123	101.065	2	L	15	1826.836	913.922
329.182	165.095	3	Q	14	1713.752	857.380
442.266	221.637	4	L	13	1585.694	793.351
609.298	305.153	5	S	12	1472.610	736.808
706.351	353.679	6	P	11	1305.578	653.292
866.360	433.684	7	C	10	1208.525	604.766
979.444	490.226	8	L	9	1048.516	524.761
1080.492	540.750	9	T	8	935.432	468.219
1195.519	598.263	10	D	7	834.384	417.696
1310.546	655.776	11	D	6	719.357	360.182
1439.588	720.298	12	E	5	604.330	302.669
1567.647	784.327	13	Q	4	475.287	238.147
1680.731	840.869	14	L	3	347.229	174.118
1767.763	884.385	15	S	2	234.145	117.576
1895.858	948.433	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9297



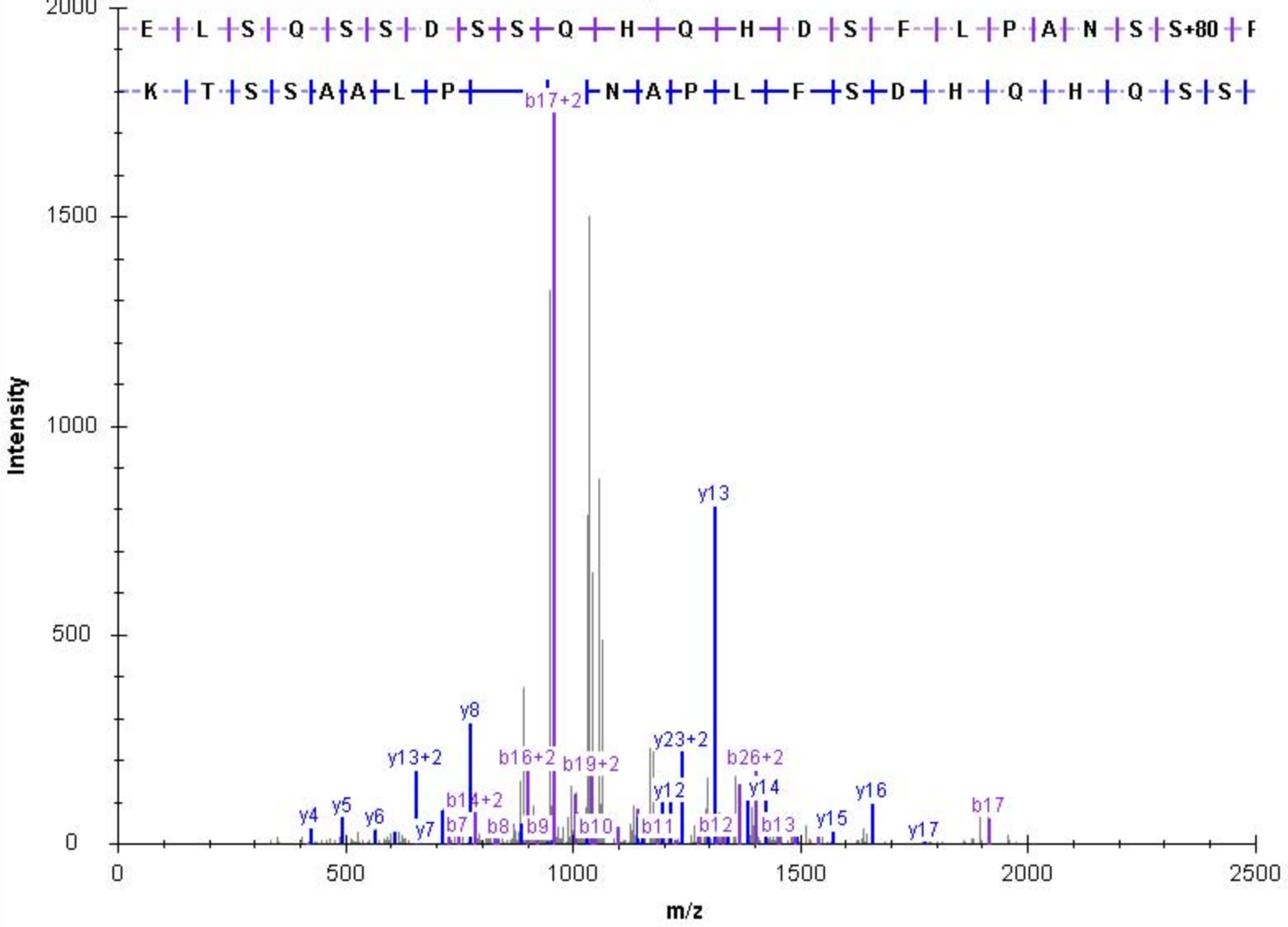
b	b(+2)				y	y(+2)
88.039	44.523	1	S	16	1913.868	957.438
201.123	101.065	2	L	15	1826.836	913.922
329.182	165.095	3	Q	14	1713.752	857.380
442.266	221.637	4	L	13	1585.694	793.351
529.298	265.153	5	S	12	1472.610	736.808
626.351	313.679	6	P	11	1385.578	693.292
786.360	393.684	7	C	10	1288.525	644.766
899.444	450.226	8	L	9	1128.516	564.761
1080.492	540.750	9	T	8	1015.432	508.219
1195.519	598.263	10	D	7	834.384	417.696
1310.546	655.776	11	D	6	719.357	360.182
1439.588	720.298	12	E	5	604.330	302.669
1567.647	784.327	13	Q	4	475.287	238.147
1680.731	840.869	14	L	3	347.229	174.118
1767.763	884.385	15	S	2	234.145	117.576
1895.858	948.433	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11468



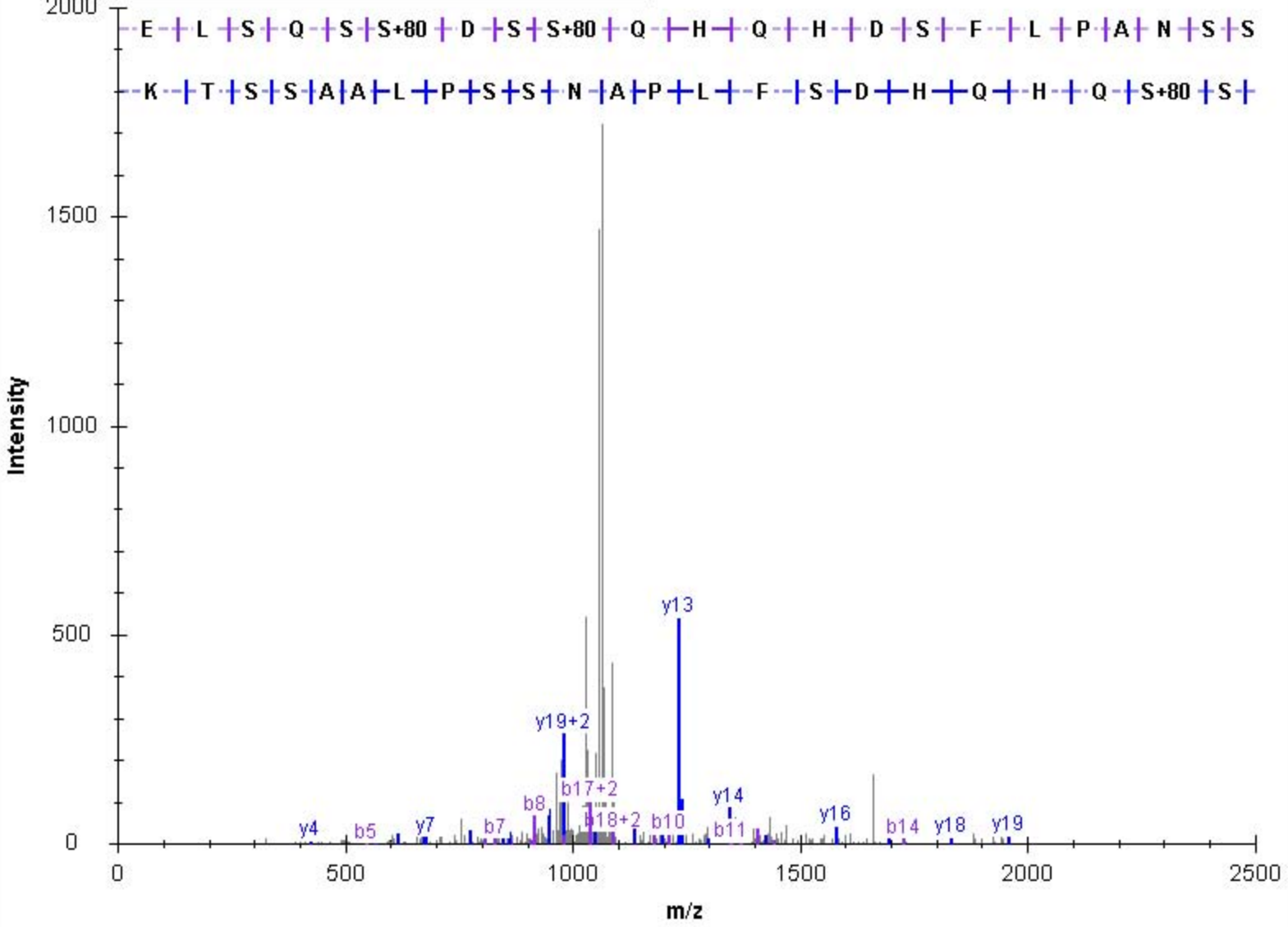
b	b(+2)			y	y(+2)	
130.050	65.529	1	E	30	3223.451	1612.229
243.134	122.071	2	L	29	3094.409	1547.708
330.166	165.587	3	S	28	2981.325	1491.166
458.225	229.616	4	Q	27	2894.293	1447.650
545.257	273.132	5	S	26	2766.234	1383.621
632.289	316.648	6	S	25	2679.202	1340.105
747.316	374.161	7	D	24	2592.170	1296.589
834.348	417.677	8	S	23	2477.143	1239.075
921.380	461.193	9	S	22	2390.111	1195.559
1049.438	525.223	10	Q	21	2303.079	1152.043
1186.497	593.752	11	H	20	2175.020	1088.014
1314.556	657.781	12	Q	19	2037.961	1019.484
1451.615	726.311	13	H	18	1909.903	955.455
1566.642	783.824	14	D	17	1772.844	886.926
1653.674	827.340	15	S	16	1657.817	829.412
1800.742	900.875	16	F	15	1570.785	785.896
1913.826	957.417	17	L	14	1423.717	712.362
2010.879	1005.943	18	P	13	1310.632	655.820
2081.916	1041.462	19	A	12	1213.580	607.293
2195.959	1098.483	20	N	11	1142.543	571.775
2282.991	1141.999	21	S	10	1028.500	514.753
2450.023	1225.515	22	S	9	941.468	471.237
2547.076	1274.041	23	P	8	774.436	387.721
2660.160	1330.583	24	L	7	677.383	339.195
2731.197	1366.102	25	A	6	564.299	282.653
2802.234	1401.621	26	A	5	493.262	247.134
2889.266	1445.137	27	S	4	422.225	211.616
2976.298	1488.653	28	S	3	335.193	168.100
3077.346	1539.176	29	T	2	248.160	124.584
3205.441	1603.224	30	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=10411



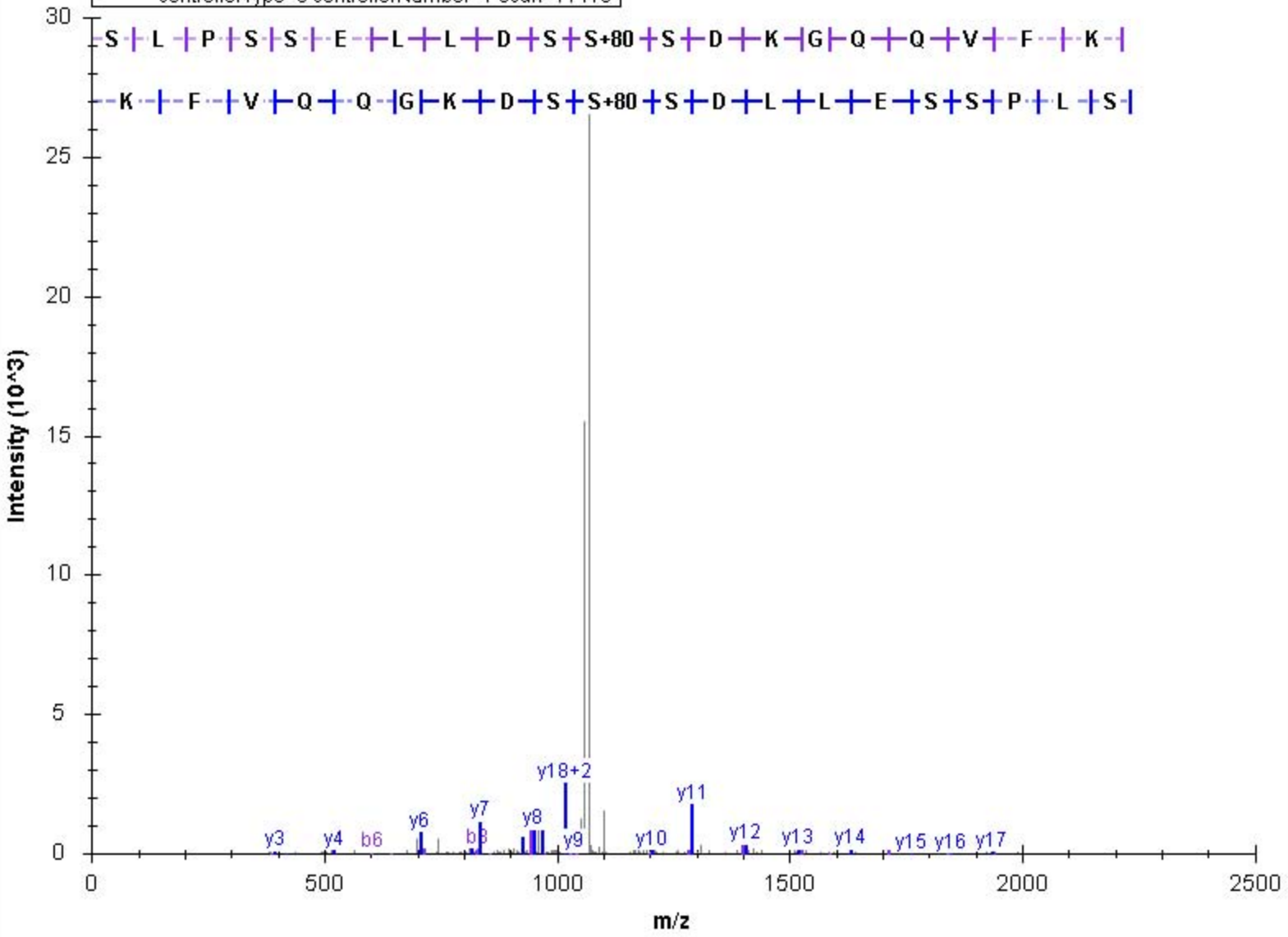
b	b(+2)			y	y(+2)	
130.050	65.529	1	E	30	3303.451	1652.229
243.134	122.071	2	L	29	3174.409	1587.708
330.166	165.587	3	S	28	3061.325	1531.166
458.225	229.616	4	Q	27	2974.293	1487.650
545.257	273.132	5	S	26	2846.234	1423.621
712.289	356.648	6	S	25	2759.202	1380.105
827.316	414.161	7	D	24	2592.170	1296.589
914.348	457.677	8	S	23	2477.143	1239.075
1081.380	541.193	9	S	22	2390.111	1195.559
1209.438	605.223	10	Q	21	2223.079	1112.043
1346.497	673.752	11	H	20	2095.020	1048.014
1474.556	737.781	12	Q	19	1957.961	979.484
1611.615	806.311	13	H	18	1829.903	915.455
1726.642	863.824	14	D	17	1692.844	846.926
1813.674	907.340	15	S	16	1577.817	789.412
1960.742	980.875	16	F	15	1490.785	745.896
2073.826	1037.417	17	L	14	1343.717	672.362
2170.879	1085.943	18	P	13	1230.632	615.820
2241.916	1121.462	19	A	12	1133.580	567.293
2355.959	1178.483	20	N	11	1062.543	531.775
2442.991	1221.999	21	S	10	948.500	474.753
2530.023	1265.515	22	S	9	861.468	431.237
2627.076	1314.041	23	P	8	774.436	387.721
2740.160	1370.583	24	L	7	677.383	339.195
2811.197	1406.102	25	A	6	564.299	282.653
2882.234	1441.621	26	A	5	493.262	247.134
2969.266	1485.137	27	S	4	422.225	211.616
3056.298	1528.653	28	S	3	335.193	168.100
3157.346	1579.176	29	T	2	248.160	124.584
3285.441	1643.224	30	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=10959



b	b(+2)			y	y(+2)	
88.039	44.523	1	S	20	2232.077	1116.542
201.123	101.065	2	L	19	2145.045	1073.026
298.176	149.592	3	P	18	2031.961	1016.484
385.208	193.108	4	S	17	1934.908	967.958
472.240	236.624	5	S	16	1847.876	924.442
601.283	301.145	6	E	15	1760.844	880.926
714.367	357.687	7	L	14	1631.801	816.404
827.451	414.229	8	L	13	1518.717	759.862
942.478	471.743	9	D	12	1405.633	703.320
1029.510	515.259	10	S	11	1290.606	645.807
1196.542	598.775	11	S	10	1203.574	602.291
1283.574	642.291	12	S	9	1036.542	518.775
1398.601	699.804	13	D	8	949.510	475.259
1526.696	763.852	14	K	7	834.483	417.745
1583.717	792.362	15	G	6	706.388	353.698
1711.776	856.392	16	Q	5	649.367	325.187
1839.834	920.421	17	Q	4	521.308	261.158
1938.903	969.955	18	V	3	393.250	197.128
2085.971	1043.489	19	F	2	294.181	147.594
2214.066	1107.537	20	K	1	147.113	74.060

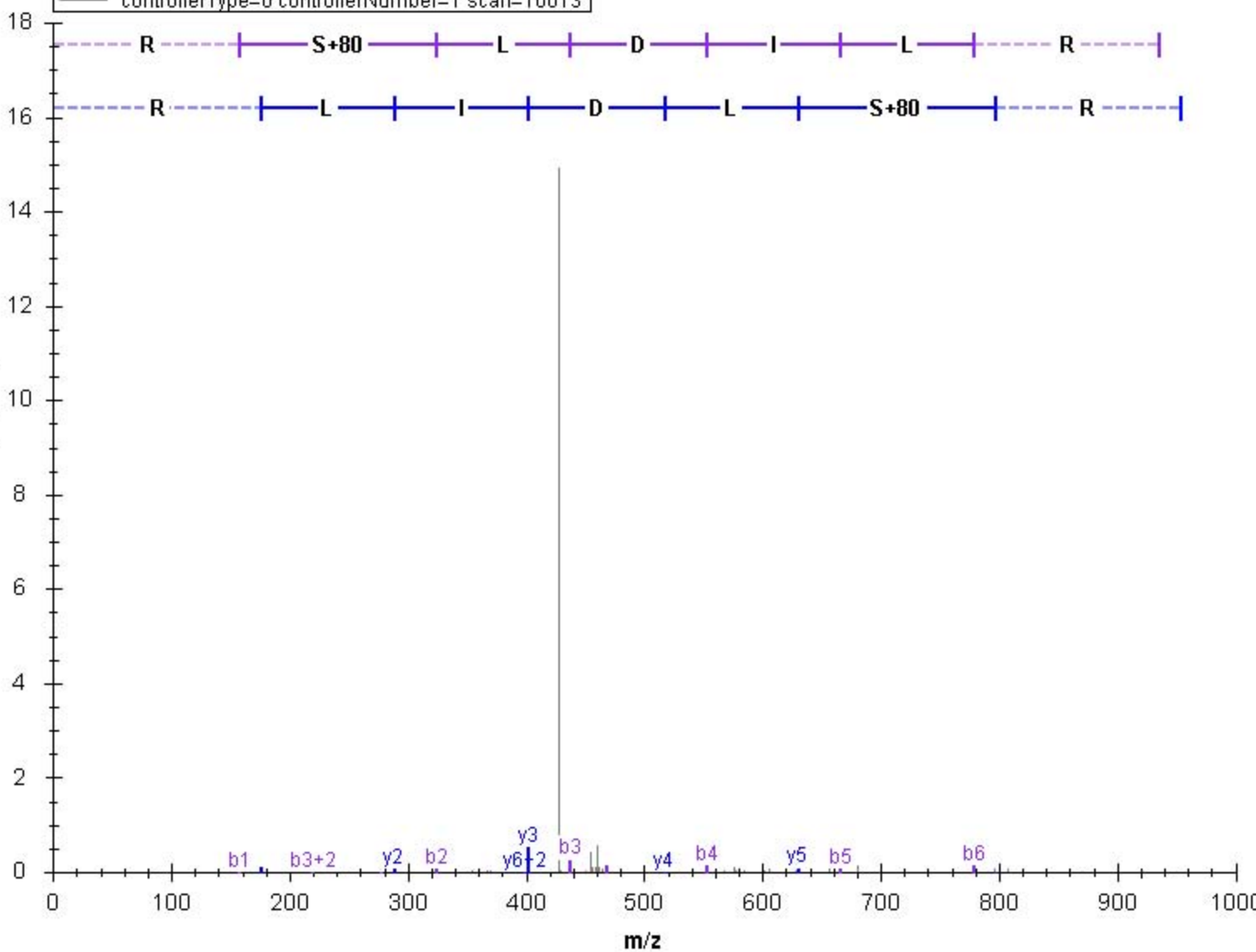
controllerType=0 controllerNumber=1 scan=11416



b	b(+2)			y	y(+2)	
157.108	79.058	1	R	7	952.531	476.769
324.140	162.574	2	S	6	796.430	398.719
437.224	219.116	3	L	5	629.398	315.203
552.251	276.629	4	D	4	516.314	258.661
665.335	333.171	5	I	3	401.287	201.147
778.420	389.713	6	L	2	288.203	144.605
934.521	467.764	7	R	1	175.119	88.063

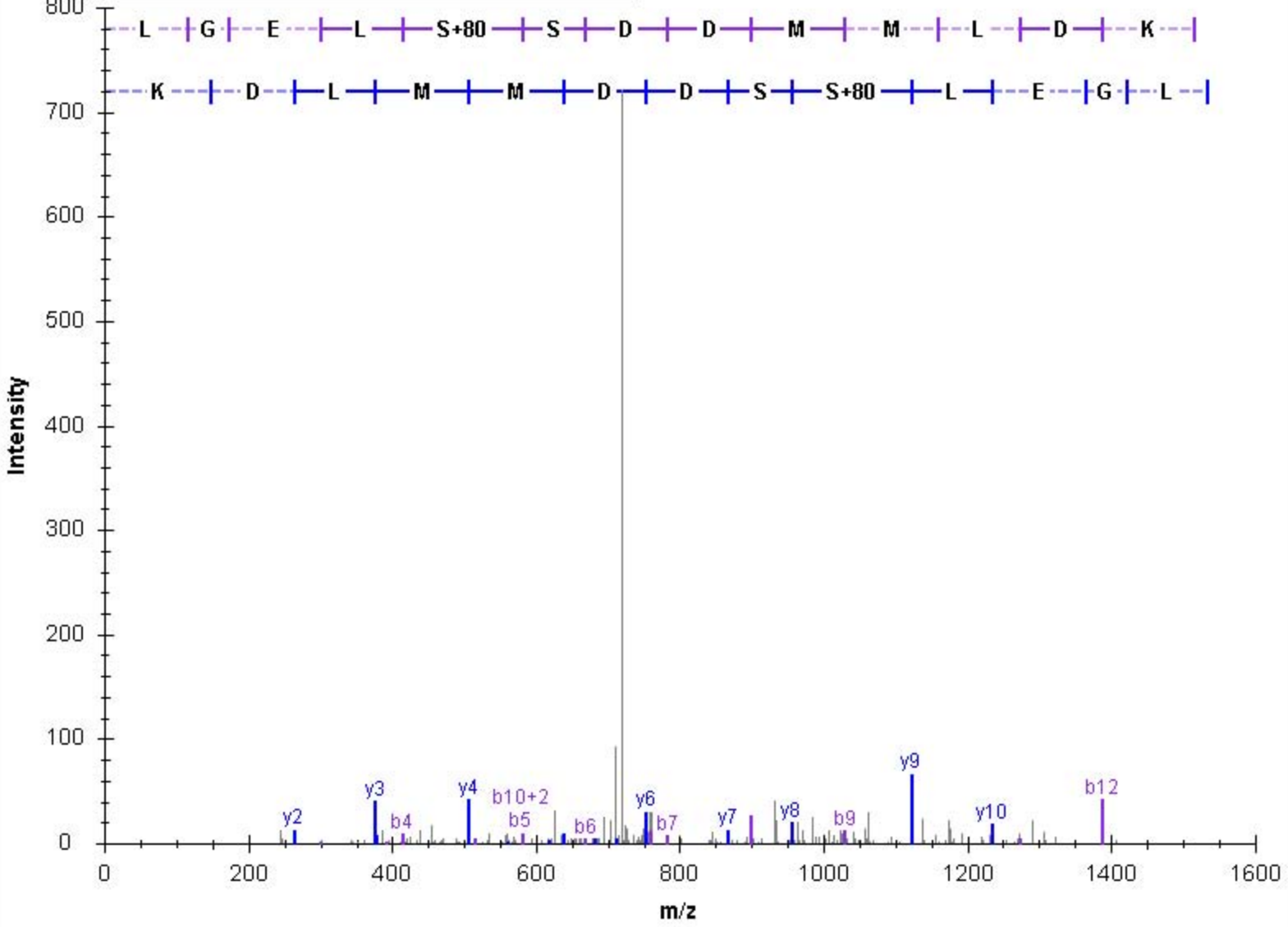
controllerType=0 controllerNumber=1 scan=10013

Intensity (10³)

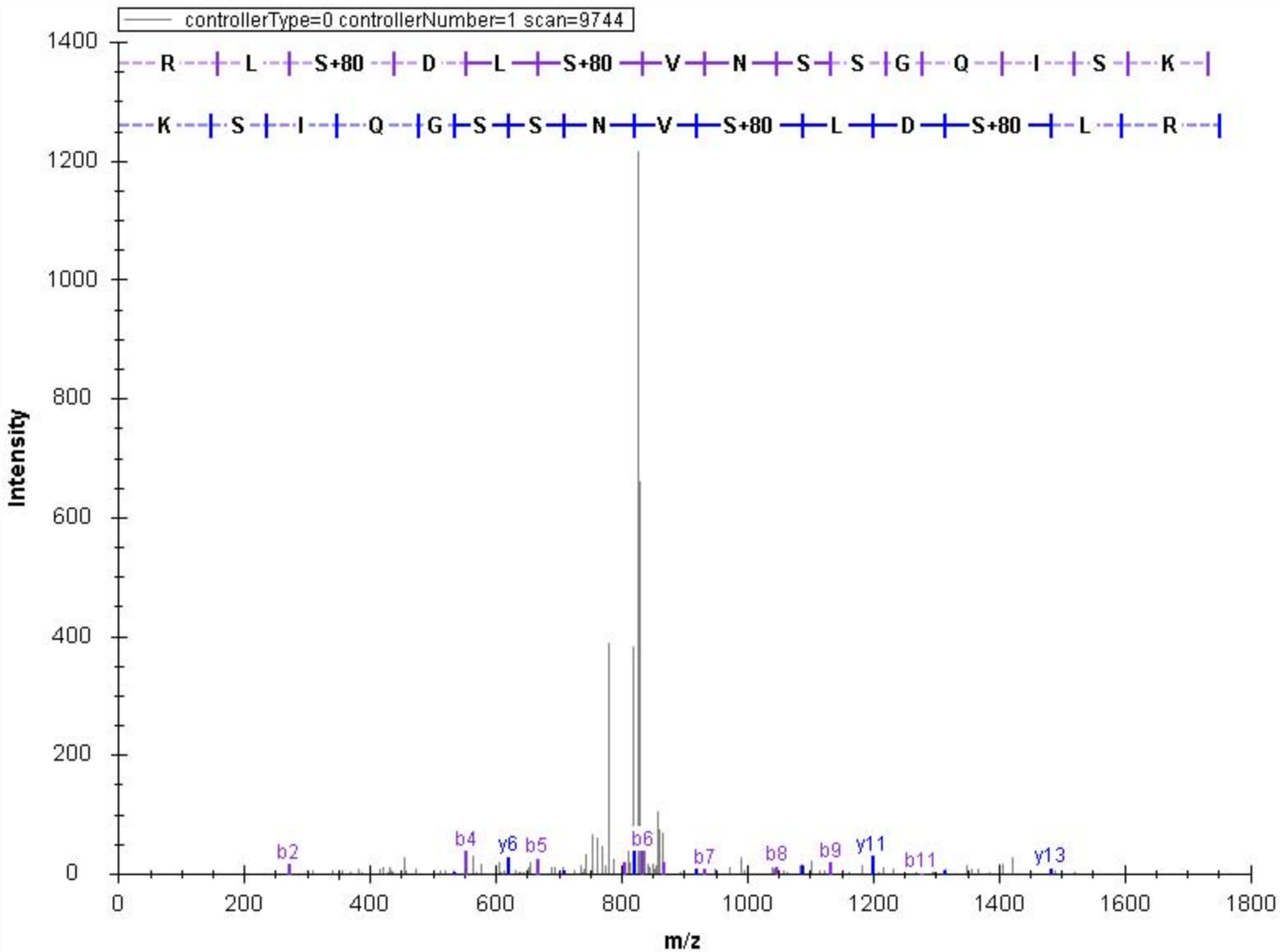


b	b(+2)				y	y(+2)
114.091	57.549	1	L	13	1533.655	767.331
171.113	86.060	2	G	12	1420.571	710.789
300.155	150.581	3	E	11	1363.549	682.278
413.239	207.123	4	L	10	1234.507	617.757
580.271	290.639	5	S	9	1121.423	561.215
667.304	334.155	6	S	8	954.391	477.699
782.330	391.669	7	D	7	867.359	434.183
897.357	449.182	8	D	6	752.332	376.669
1028.398	514.703	9	M	5	637.305	319.156
1159.438	580.223	10	M	4	506.264	253.636
1272.522	636.765	11	L	3	375.224	188.116
1387.549	694.278	12	D	2	262.140	131.574
1515.644	758.326	13	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=13453

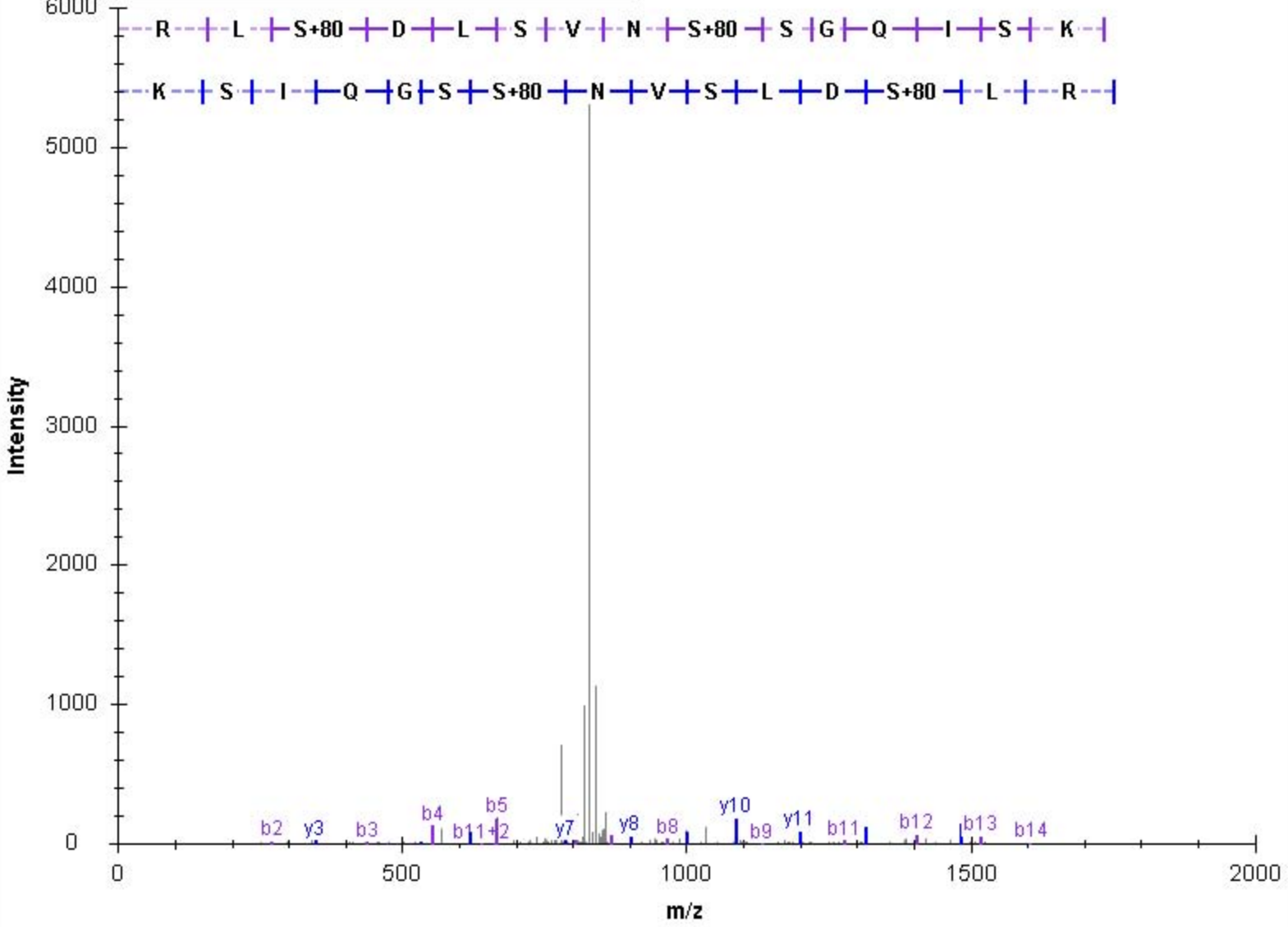


b	b(+2)				y	y(+2)
157.108	79.058	1	R	15	1750.845	875.926
270.192	135.600	2	L	14	1594.743	797.875
437.224	219.116	3	S	13	1481.659	741.333
552.251	276.629	4	D	12	1314.627	657.817
665.335	333.171	5	L	11	1199.600	600.304
832.368	416.687	6	S	10	1086.516	543.762
931.436	466.222	7	V	9	919.484	460.246
1045.479	523.243	8	N	8	820.416	410.712
1132.511	566.759	9	S	7	706.373	353.690
1219.543	610.275	10	S	6	619.341	310.174
1276.564	638.786	11	G	5	532.309	266.658
1404.623	702.815	12	Q	4	475.287	238.147
1517.707	759.357	13	I	3	347.229	174.118
1604.739	802.873	14	S	2	234.145	117.576
1732.834	866.921	15	K	1	147.113	74.060



b	b(+2)				y	y(+2)
157.108	79.058	1	R	15	1750.845	875.926
270.192	135.600	2	L	14	1594.743	797.875
437.224	219.116	3	S	13	1481.659	741.333
552.251	276.629	4	D	12	1314.627	657.817
665.335	333.171	5	L	11	1199.600	600.304
752.368	376.687	6	S	10	1086.516	543.762
851.436	426.222	7	V	9	999.484	500.246
965.479	483.243	8	N	8	900.416	450.712
1132.511	566.759	9	S	7	786.373	393.690
1219.543	610.275	10	S	6	619.341	310.174
1276.564	638.786	11	G	5	532.309	266.658
1404.623	702.815	12	Q	4	475.287	238.147
1517.707	759.357	13	I	3	347.229	174.118
1604.739	802.873	14	S	2	234.145	117.576
1732.834	866.921	15	K	1	147.113	74.060

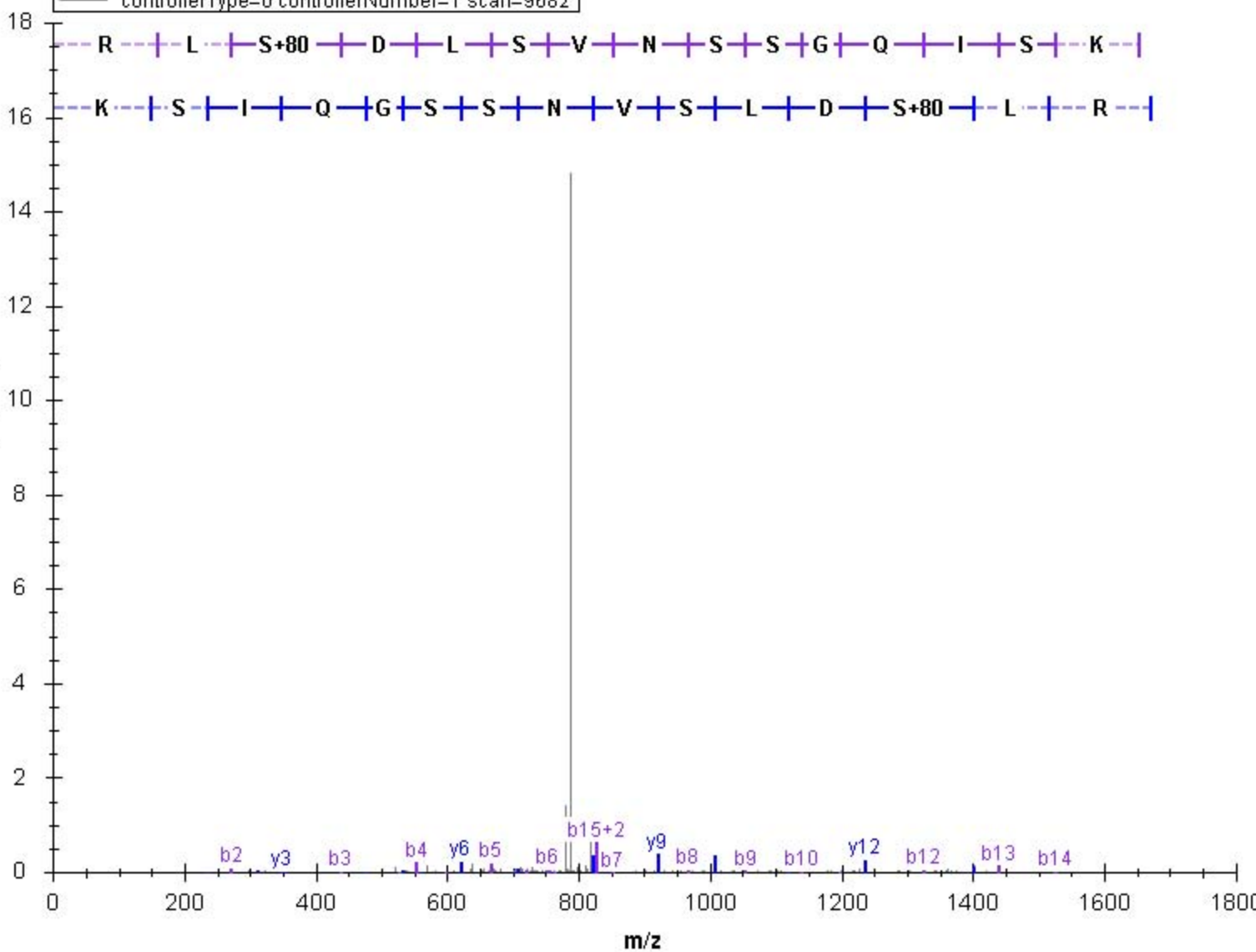
controllerType=0 controllerNumber=1 scan=9559



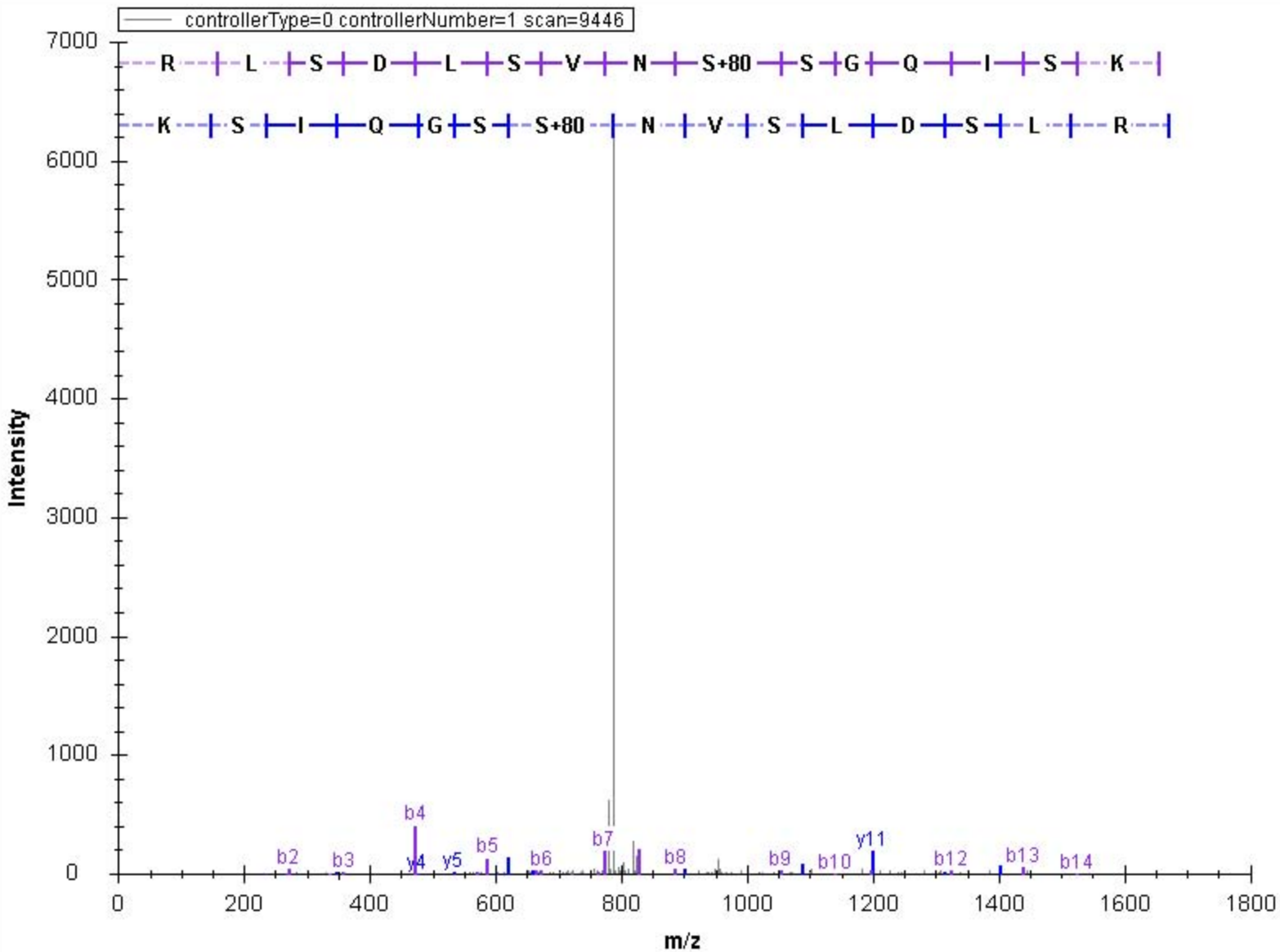
b	b(+2)				y	y(+2)
157.108	79.058	1	R	15	1670.845	835.926
270.192	135.600	2	L	14	1514.743	757.875
437.224	219.116	3	S	13	1401.659	701.333
552.251	276.629	4	D	12	1234.627	617.817
665.335	333.171	5	L	11	1119.600	560.304
752.368	376.687	6	S	10	1006.516	503.762
851.436	426.222	7	V	9	919.484	460.246
965.479	483.243	8	N	8	820.416	410.712
1052.511	526.759	9	S	7	706.373	353.690
1139.543	570.275	10	S	6	619.341	310.174
1196.564	598.786	11	G	5	532.309	266.658
1324.623	662.815	12	Q	4	475.287	238.147
1437.707	719.357	13	I	3	347.229	174.118
1524.739	762.873	14	S	2	234.145	117.576
1652.834	826.921	15	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9682

Intensity (10³)

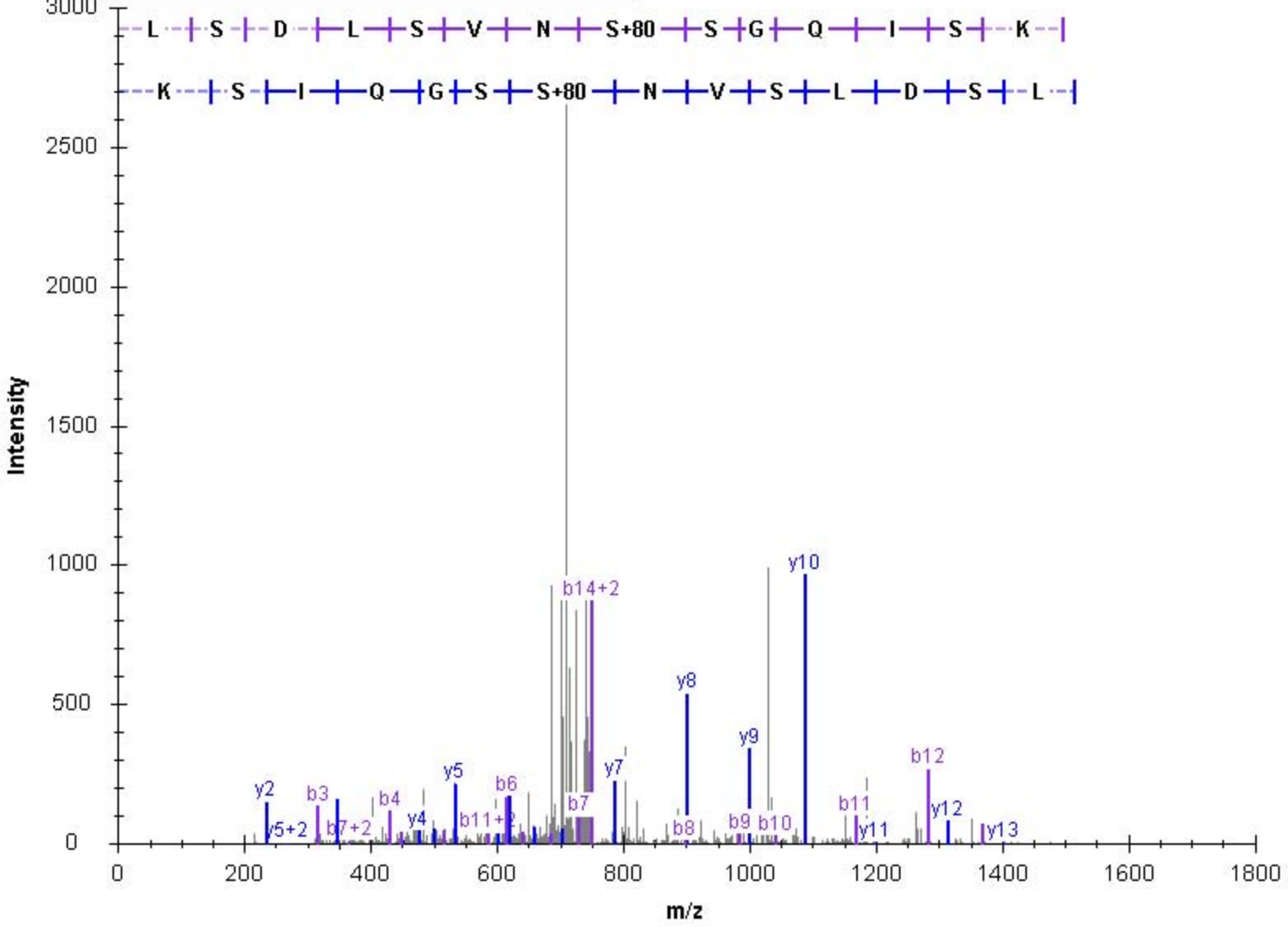


b	b(+2)				y	y(+2)
157.108	79.058	1	R	15	1670.845	835.926
270.192	135.600	2	L	14	1514.743	757.875
357.224	179.116	3	S	13	1401.659	701.333
472.251	236.629	4	D	12	1314.627	657.817
585.335	293.171	5	L	11	1199.600	600.304
672.368	336.687	6	S	10	1086.516	543.762
771.436	386.222	7	V	9	999.484	500.246
885.479	443.243	8	N	8	900.416	450.712
1052.511	526.759	9	S	7	786.373	393.690
1139.543	570.275	10	S	6	619.341	310.174
1196.564	598.786	11	G	5	532.309	266.658
1324.623	662.815	12	Q	4	475.287	238.147
1437.707	719.357	13	I	3	347.229	174.118
1524.739	762.873	14	S	2	234.145	117.576
1652.834	826.921	15	K	1	147.113	74.060



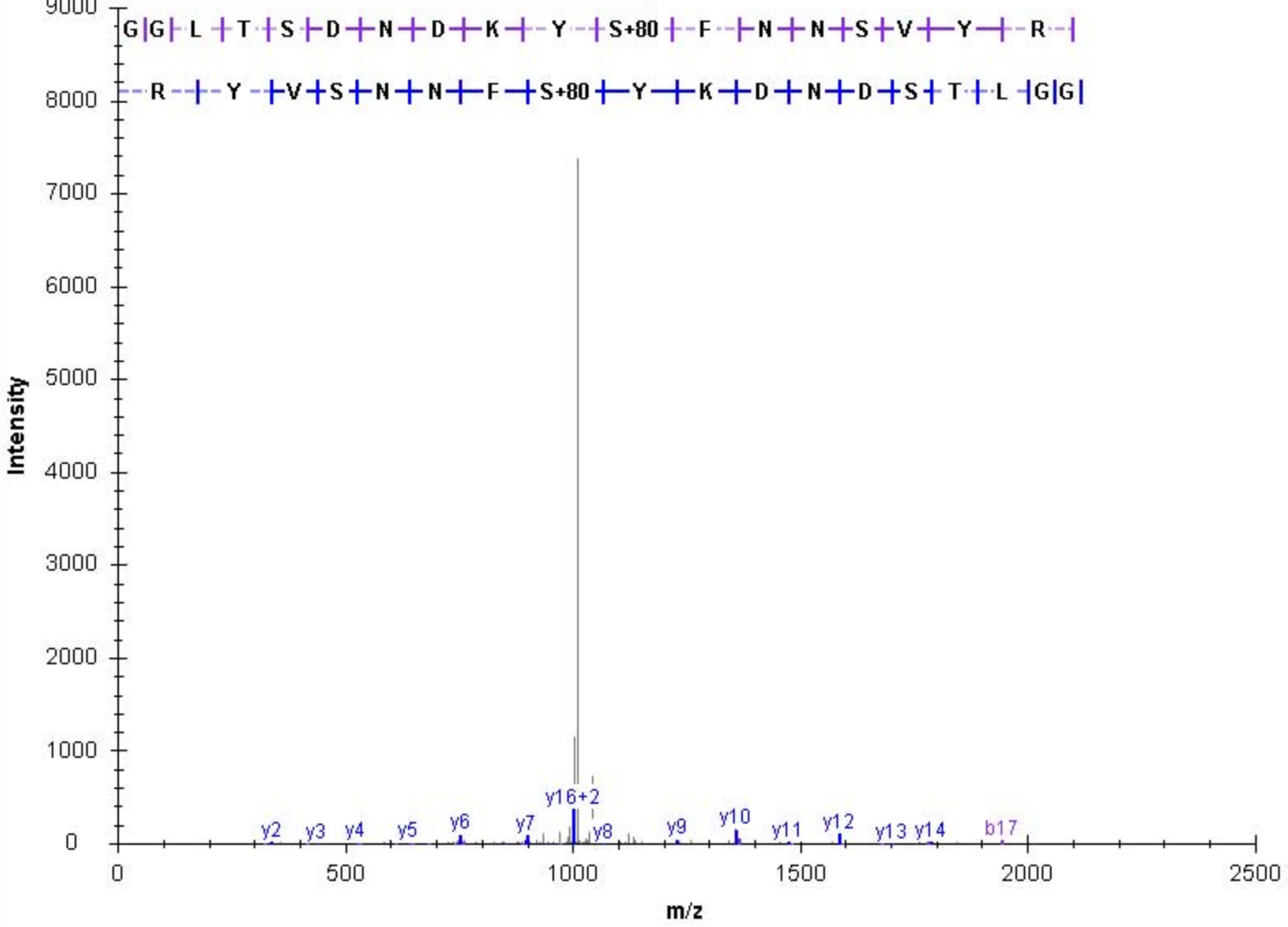
b	b(+2)				y	y(+2)
114.091	57.549	1	L	14	1514.743	757.875
201.123	101.065	2	S	13	1401.659	701.333
316.150	158.579	3	D	12	1314.627	657.817
429.234	215.121	4	L	11	1199.600	600.304
516.266	258.637	5	S	10	1086.516	543.762
615.335	308.171	6	V	9	999.484	500.246
729.378	365.193	7	N	8	900.416	450.712
896.410	448.709	8	S	7	786.373	393.690
983.442	492.225	9	S	6	619.341	310.174
1040.463	520.735	10	G	5	532.309	266.658
1168.522	584.765	11	Q	4	475.287	238.147
1281.606	641.307	12	I	3	347.229	174.118
1368.638	684.823	13	S	2	234.145	117.576
1496.733	748.870	14	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8324



b	b(+2)				y	y(+2)
58.029	29.518	1	G	18	2116.931	1058.969
115.050	58.029	2	G	17	2059.909	1030.458
228.134	114.571	3	L	16	2002.888	1001.948
329.182	165.095	4	T	15	1889.804	945.406
416.214	208.611	5	S	14	1788.756	894.882
531.241	266.124	6	D	13	1701.724	851.366
645.284	323.146	7	N	12	1586.697	793.852
760.311	380.659	8	D	11	1472.654	736.831
888.406	444.707	9	K	10	1357.627	679.317
1051.469	526.238	10	Y	9	1229.532	615.270
1218.501	609.754	11	S	8	1066.469	533.738
1365.570	683.288	12	F	7	899.437	450.222
1479.612	740.310	13	N	6	752.369	376.688
1593.655	797.331	14	N	5	638.326	319.666
1680.687	840.847	15	S	4	524.283	262.645
1779.756	890.382	16	V	3	437.251	219.129
1942.819	971.913	17	Y	2	338.182	169.595
2098.920	1049.964	18	R	1	175.119	88.063

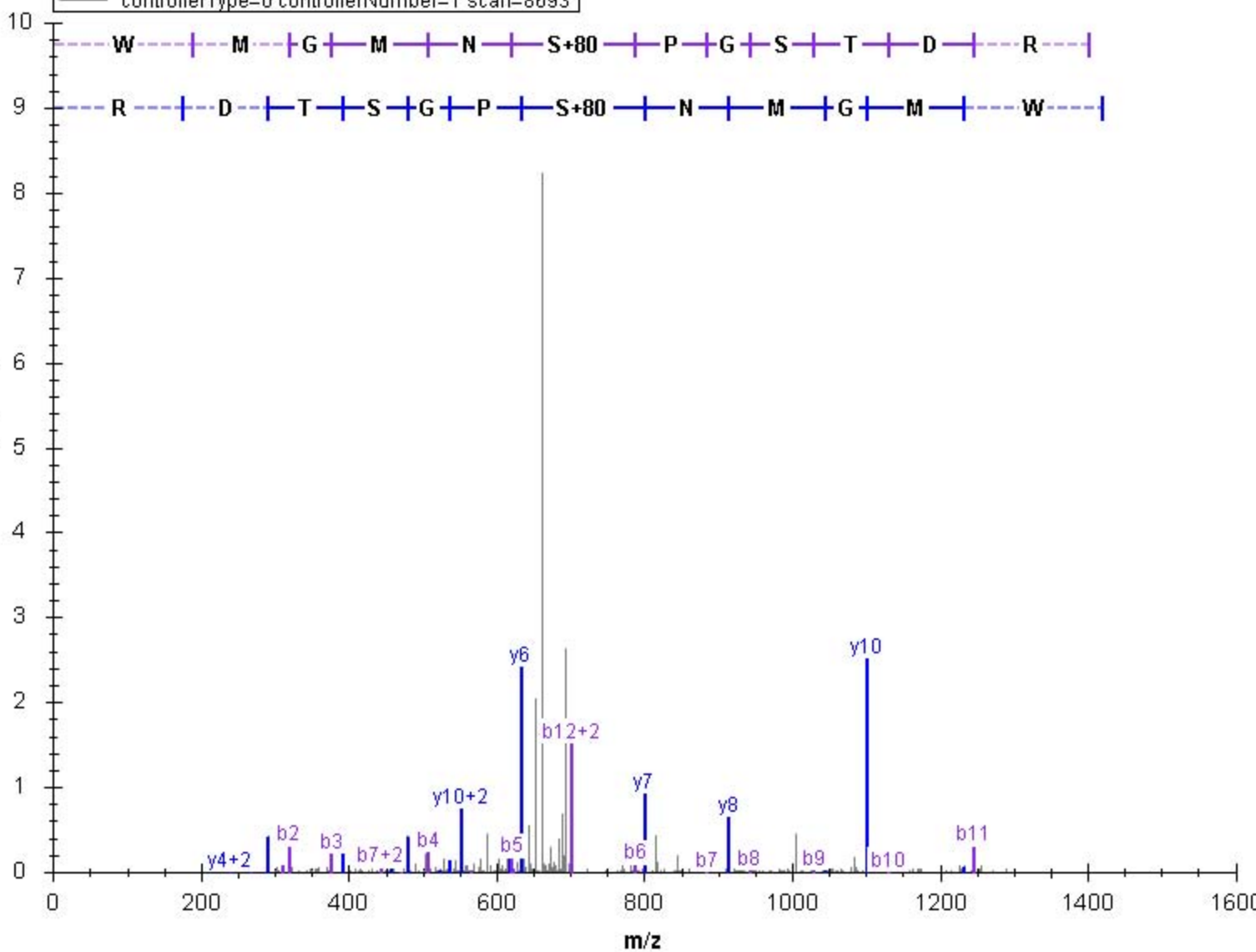
controllerType=0 controllerNumber=1 scan=10401



b	b(+2)				y	y(+2)
187.087	94.047	1	W	12	1418.557	709.782
318.127	159.567	2	M	11	1232.477	616.742
375.149	188.078	3	G	10	1101.437	551.222
506.189	253.598	4	M	9	1044.415	522.711
620.232	310.620	5	N	8	913.375	457.191
787.264	394.136	6	S	7	799.332	400.170
884.317	442.662	7	P	6	632.300	316.654
941.338	471.173	8	G	5	535.247	268.127
1028.370	514.689	9	S	4	478.226	239.616
1129.418	565.213	10	T	3	391.194	196.100
1244.445	622.726	11	D	2	290.146	145.577
1400.546	700.777	12	R	1	175.119	88.063

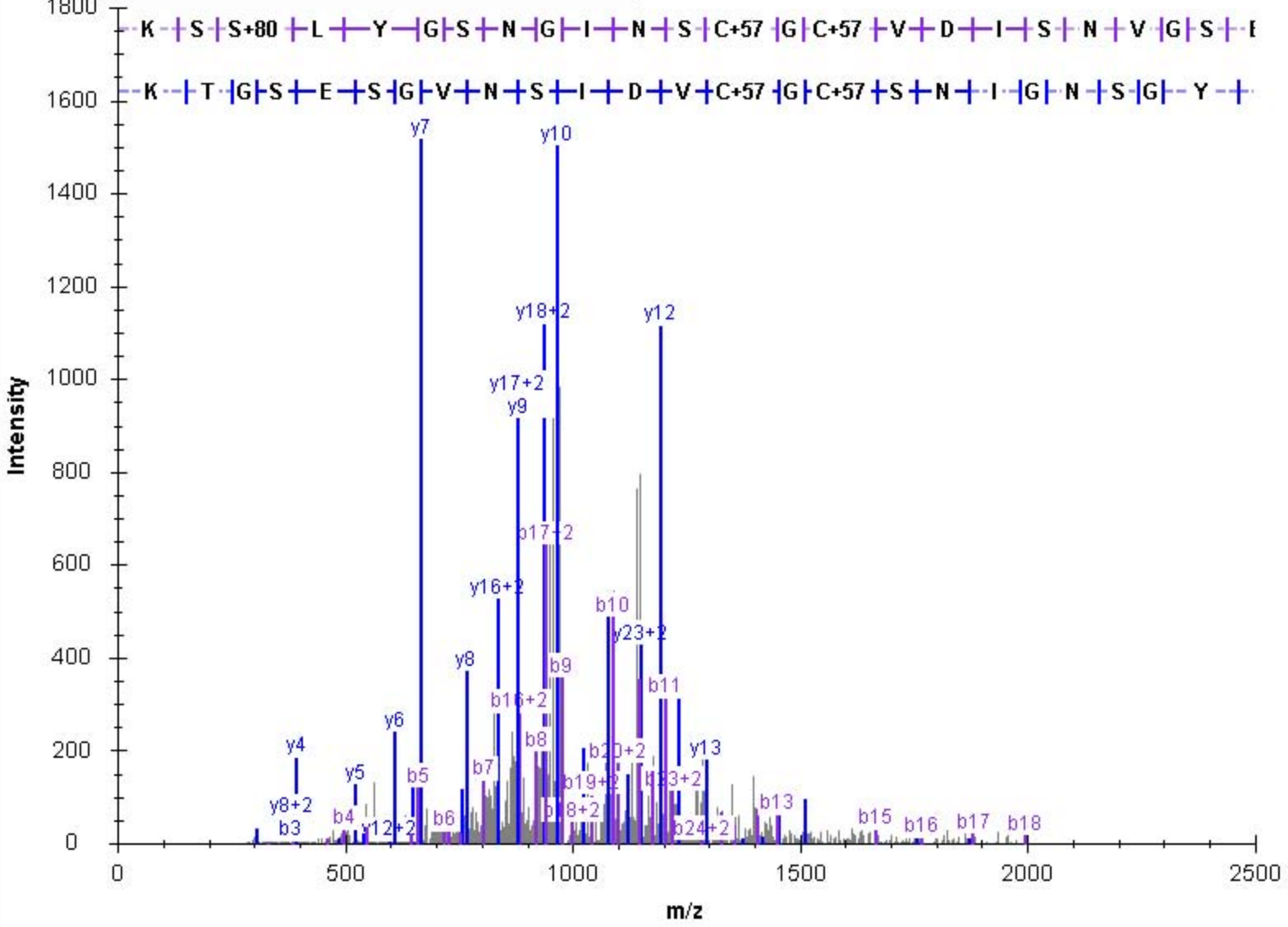
controllerType=0 controllerNumber=1 scan=8693

Intensity (10³)



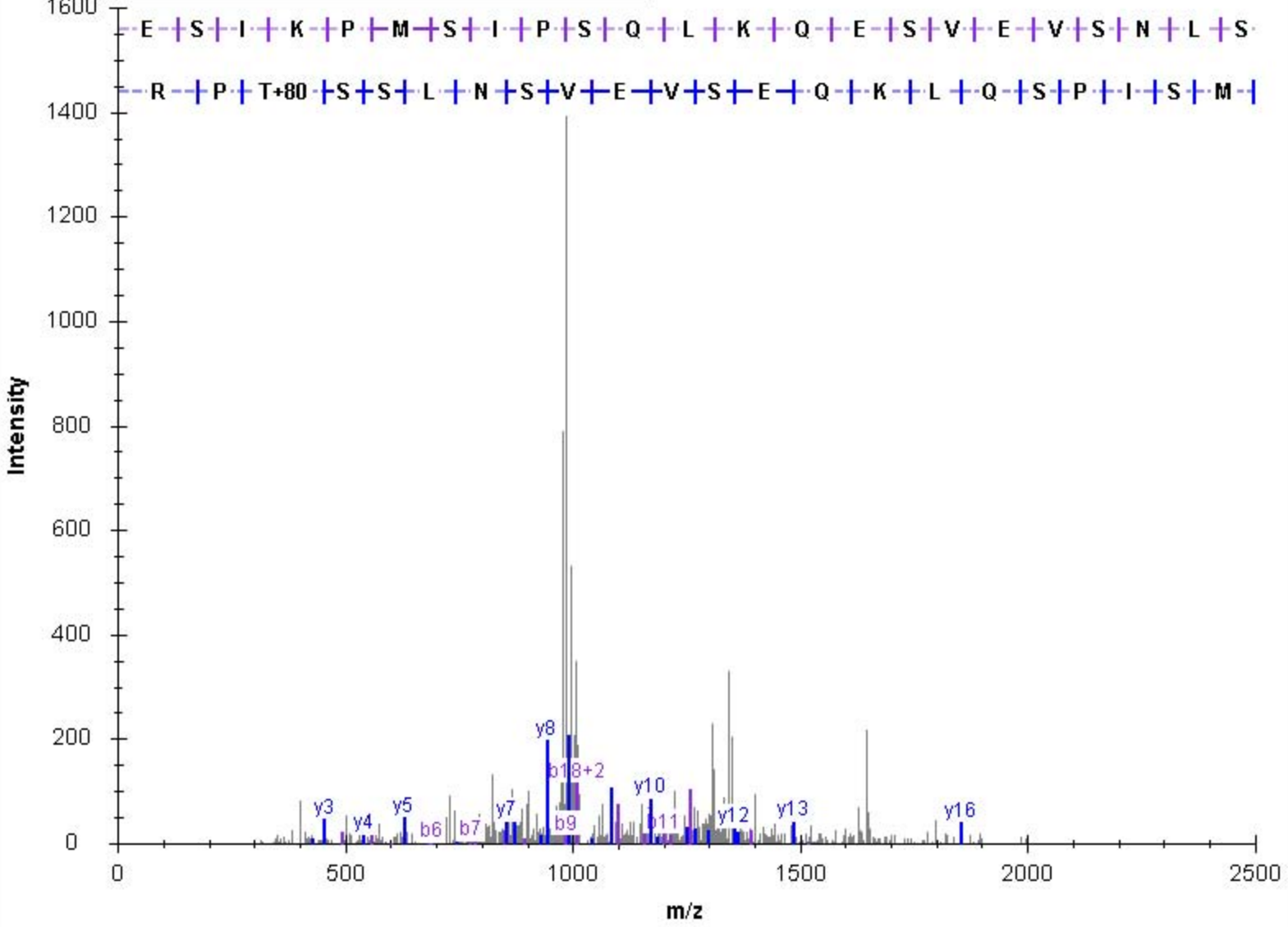
b	b(+2)			y	y(+2)	
129.102	65.055	1	K	28	2957.256	1479.132
216.134	108.571	2	S	27	2829.161	1415.084
383.166	192.087	3	S	26	2742.129	1371.568
496.250	248.629	4	L	25	2575.097	1288.052
659.314	330.160	5	Y	24	2462.013	1231.510
716.335	358.671	6	G	23	2298.950	1149.978
803.367	402.187	7	S	22	2241.928	1121.468
917.410	459.209	8	N	21	2154.896	1077.952
974.432	487.719	9	G	20	2040.853	1020.930
1087.516	544.261	10	I	19	1983.832	992.419
1201.559	601.283	11	N	18	1870.748	935.877
1288.591	644.799	12	S	17	1756.705	878.856
1448.600	724.804	13	C	16	1669.673	835.340
1505.621	753.314	14	G	15	1509.663	755.335
1665.630	833.319	15	C	14	1452.642	726.825
1764.699	882.853	16	V	13	1292.633	646.820
1879.726	940.367	17	D	12	1193.564	597.286
1992.810	996.909	18	I	11	1078.537	539.772
2079.842	1040.425	19	S	10	965.453	483.230
2193.885	1097.446	20	N	9	878.421	439.714
2292.953	1146.980	21	V	8	764.378	382.693
2349.975	1175.491	22	G	7	665.310	333.159
2437.007	1219.007	23	S	6	608.289	304.648
2566.049	1283.528	24	E	5	521.257	261.132
2653.081	1327.044	25	S	4	392.214	196.611
2710.103	1355.555	26	G	3	305.182	153.095
2811.150	1406.079	27	T	2	248.160	124.584
2939.245	1470.126	28	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=9436



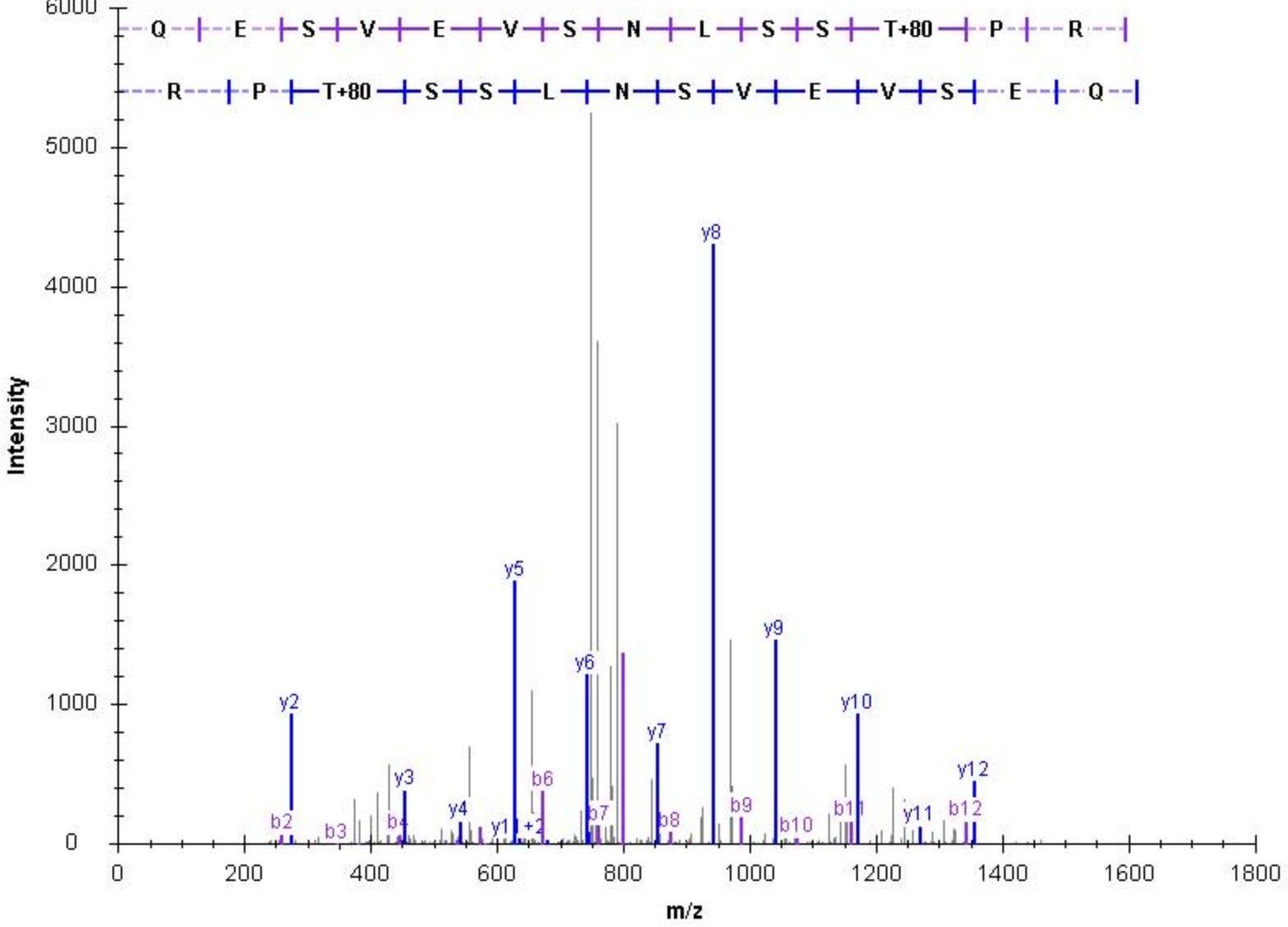
b	b(+2)			y	y(+2)	
130.050	65.529	1	E	27	3051.540	1526.274
217.082	109.045	2	S	26	2922.498	1461.753
330.166	165.587	3	I	25	2835.466	1418.237
458.261	229.634	4	K	24	2722.382	1361.695
555.314	278.160	5	P	23	2594.287	1297.647
686.354	343.681	6	M	22	2497.234	1249.121
773.386	387.197	7	S	21	2366.194	1183.600
886.470	443.739	8	I	20	2279.162	1140.084
983.523	492.265	9	P	19	2166.077	1083.542
1070.555	535.781	10	S	18	2069.025	1035.016
1198.614	599.810	11	Q	17	1981.993	991.500
1311.698	656.352	12	L	16	1853.934	927.471
1439.793	720.400	13	K	15	1740.850	870.929
1567.851	784.429	14	Q	14	1612.755	806.881
1696.894	848.951	15	E	13	1484.697	742.852
1783.926	892.467	16	S	12	1355.654	678.331
1882.994	942.001	17	V	11	1268.622	634.815
2012.037	1006.522	18	E	10	1169.553	585.280
2111.105	1056.056	19	V	9	1040.511	520.759
2198.137	1099.572	20	S	8	941.442	471.225
2312.180	1156.594	21	N	7	854.410	427.709
2425.264	1213.136	22	L	6	740.368	370.687
2512.296	1256.652	23	S	5	627.283	314.145
2599.328	1300.168	24	S	4	540.251	270.629
2780.376	1390.692	25	T	3	453.219	227.113
2877.429	1439.218	26	P	2	272.172	136.589
3033.530	1517.269	27	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=10550



b	b(+2)				y	y(+2)
129.066	65.037	1	Q	14	1612.755	806.881
258.108	129.558	2	E	13	1484.697	742.852
345.140	173.074	3	S	12	1355.654	678.331
444.209	222.608	4	V	11	1268.622	634.815
573.251	287.129	5	E	10	1169.553	585.280
672.320	336.664	6	V	9	1040.511	520.759
759.352	380.180	7	S	8	941.442	471.225
873.395	437.201	8	N	7	854.410	427.709
986.479	493.743	9	L	6	740.368	370.687
1073.511	537.259	10	S	5	627.283	314.145
1160.543	580.775	11	S	4	540.251	270.629
1341.591	671.299	12	T	3	453.219	227.113
1438.643	719.825	13	P	2	272.172	136.589
1594.745	797.876	14	R	1	175.119	88.063

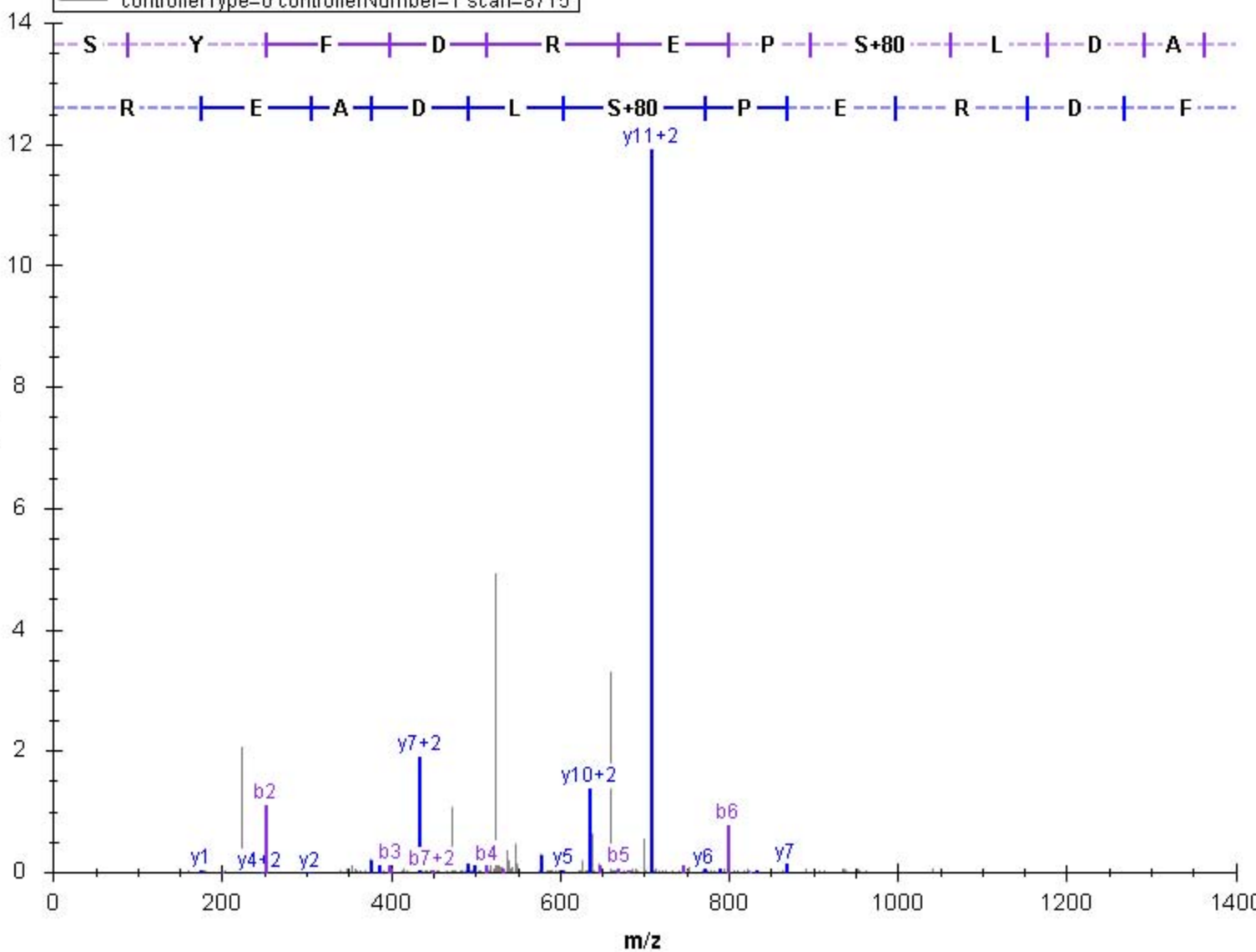
controllerType=0 controllerNumber=1 scan=6870



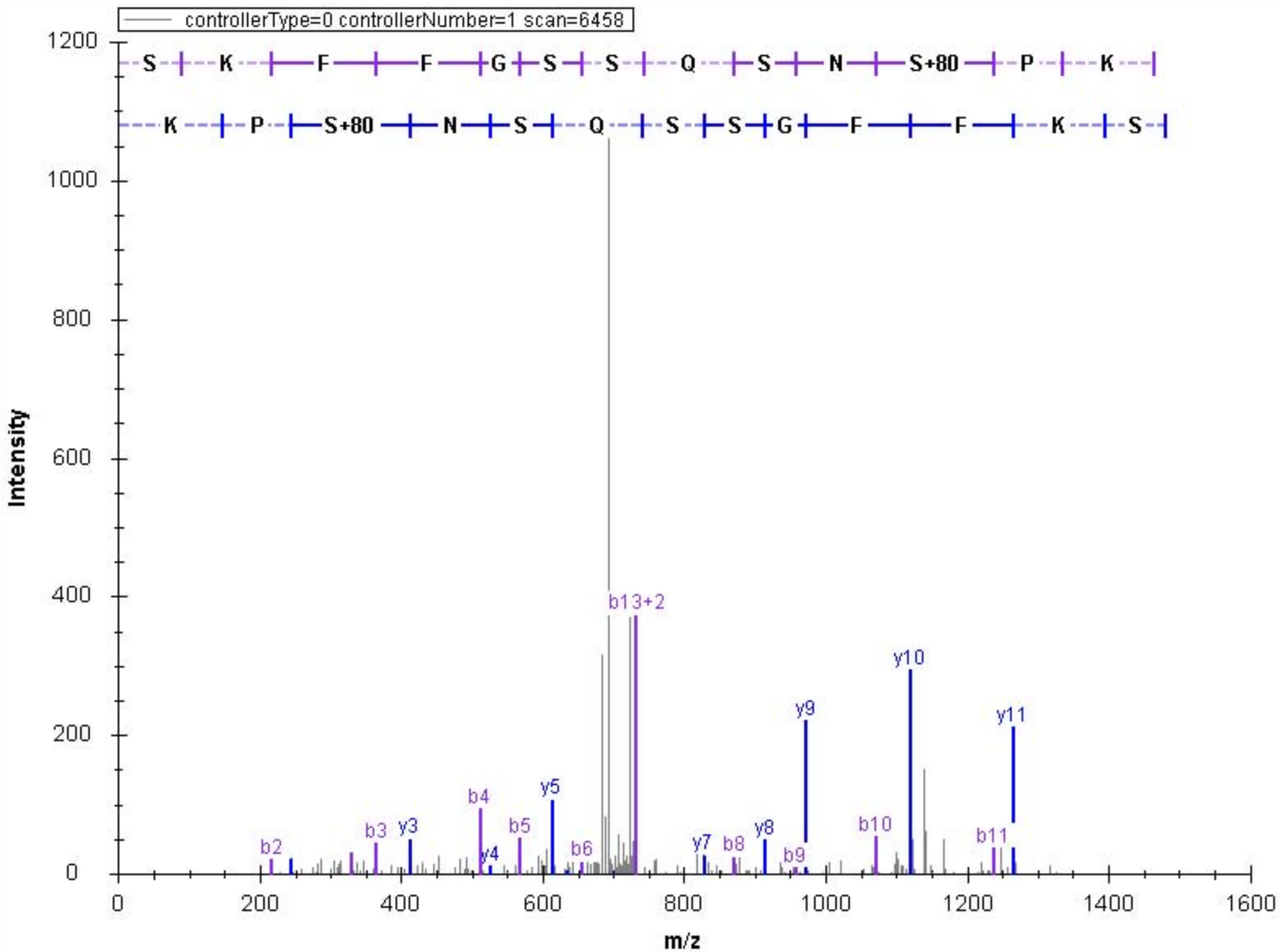
b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1664.729	832.868
251.103	126.055	2	Y	12	1577.697	789.352
398.171	199.589	3	F	11	1414.634	707.820
513.198	257.103	4	D	10	1267.565	634.286
669.299	335.153	5	R	9	1152.538	576.773
798.342	399.674	6	E	8	996.437	498.722
895.394	448.201	7	P	7	867.394	434.201
1062.426	531.717	8	S	6	770.342	385.674
1175.511	588.259	9	L	5	603.310	302.158
1290.537	645.772	10	D	4	490.226	245.616
1361.575	681.291	11	A	3	375.199	188.103
1490.617	745.812	12	E	2	304.162	152.584
1646.718	823.863	13	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=8715

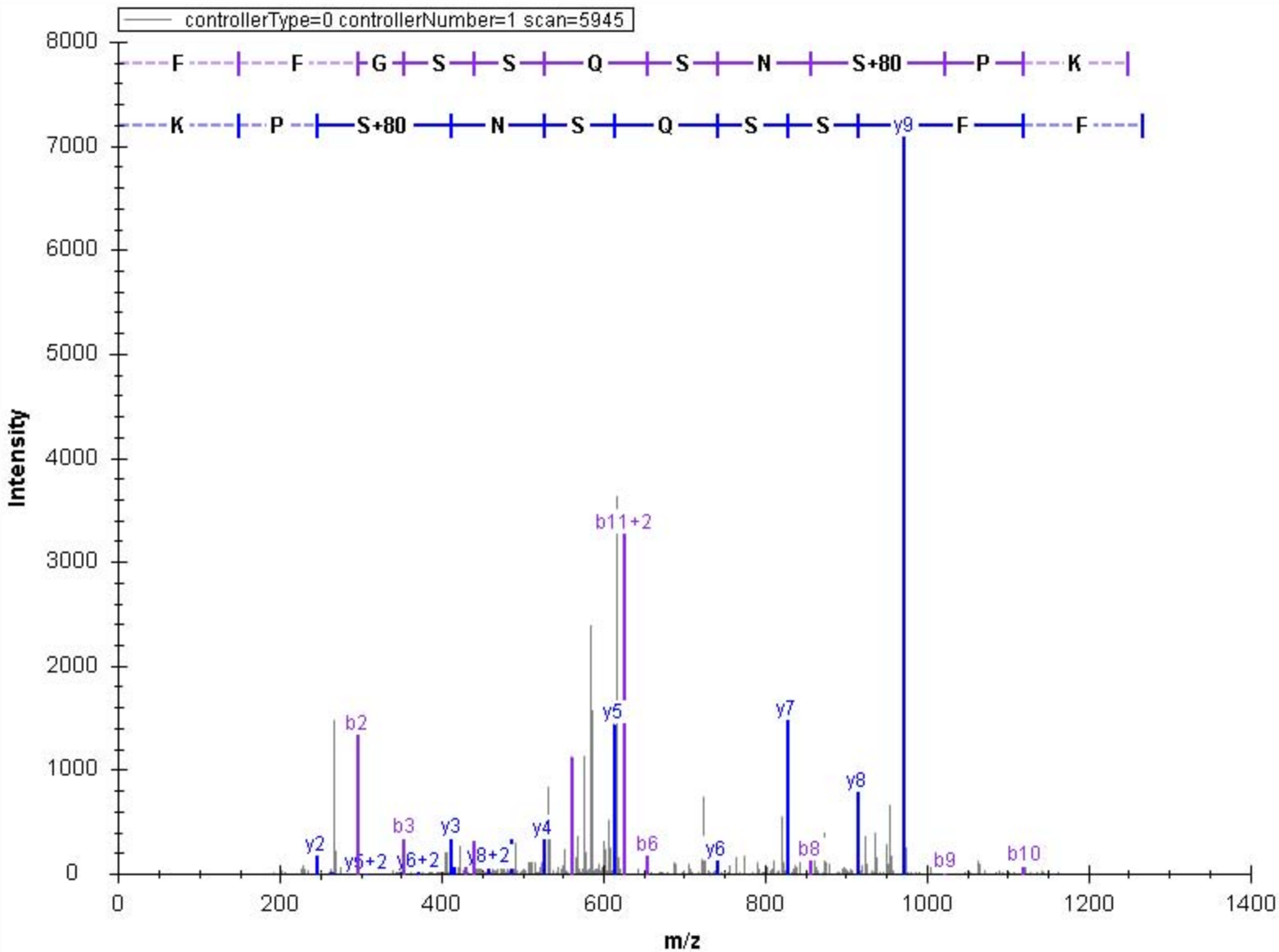
Intensity (10³)



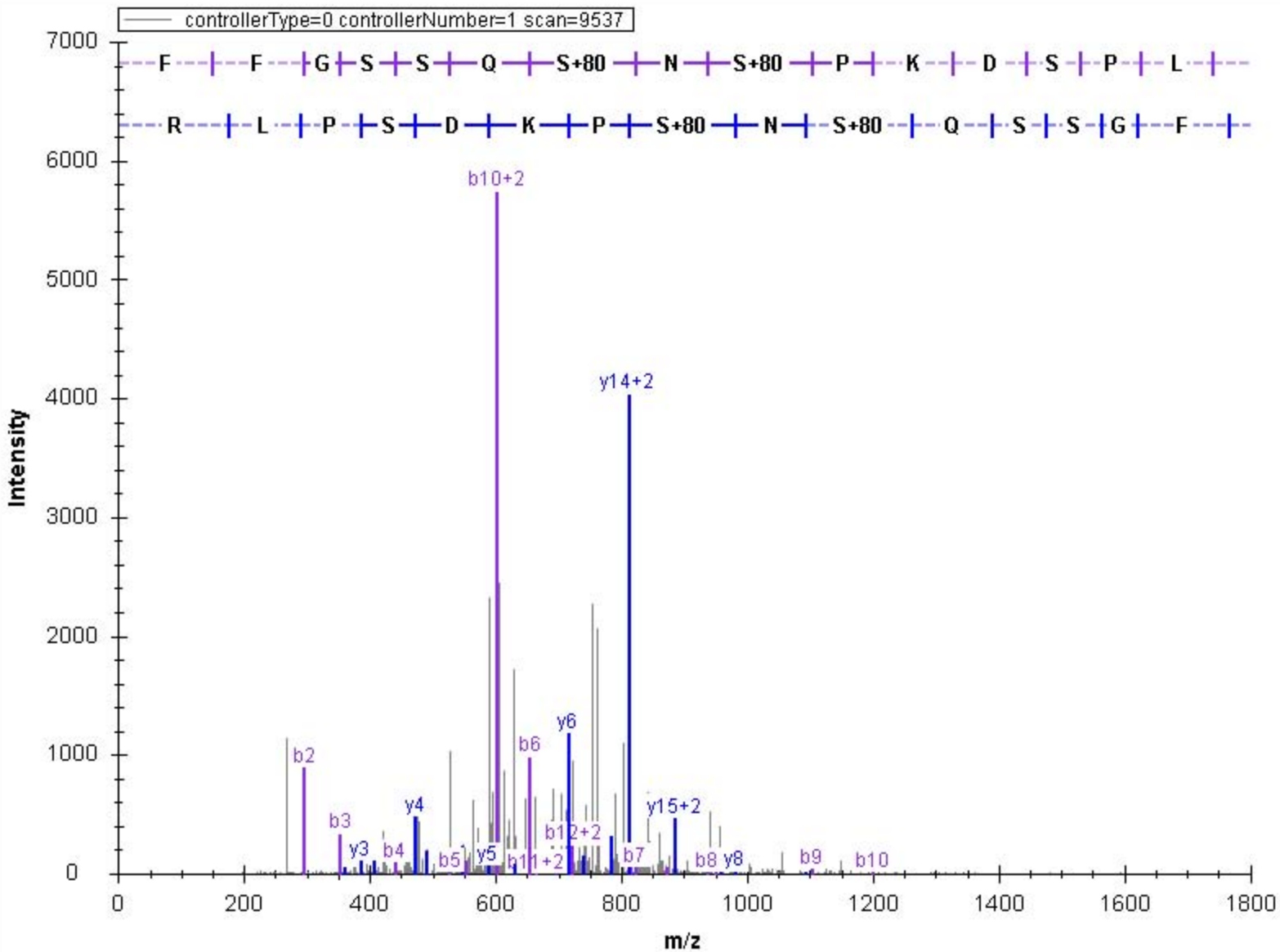
b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1480.680	740.844
216.134	108.571	2	K	12	1393.648	697.328
363.203	182.105	3	F	11	1265.553	633.280
510.271	255.639	4	F	10	1118.485	559.746
567.293	284.150	5	G	9	971.417	486.212
654.325	327.666	6	S	8	914.395	457.701
741.357	371.182	7	S	7	827.363	414.185
869.415	435.211	8	Q	6	740.331	370.669
956.447	478.727	9	S	5	612.273	306.640
1070.490	535.749	10	N	4	525.241	263.124
1237.522	619.265	11	S	3	411.198	206.102
1334.575	667.791	12	P	2	244.166	122.586
1462.670	731.839	13	K	1	147.113	74.060



b	b(+2)				y	y(+2)
148.076	74.541	1	F	11	1265.553	633.280
295.144	148.076	2	F	10	1118.485	559.746
352.166	176.586	3	G	9	971.417	486.212
439.198	220.102	4	S	8	914.395	457.701
526.230	263.618	5	S	7	827.363	414.185
654.288	327.648	6	Q	6	740.331	370.669
741.320	371.164	7	S	5	612.273	306.640
855.363	428.185	8	N	4	525.241	263.124
1022.395	511.701	9	S	3	411.198	206.102
1119.448	560.228	10	P	2	244.166	122.586
1247.543	624.275	11	K	1	147.113	74.060

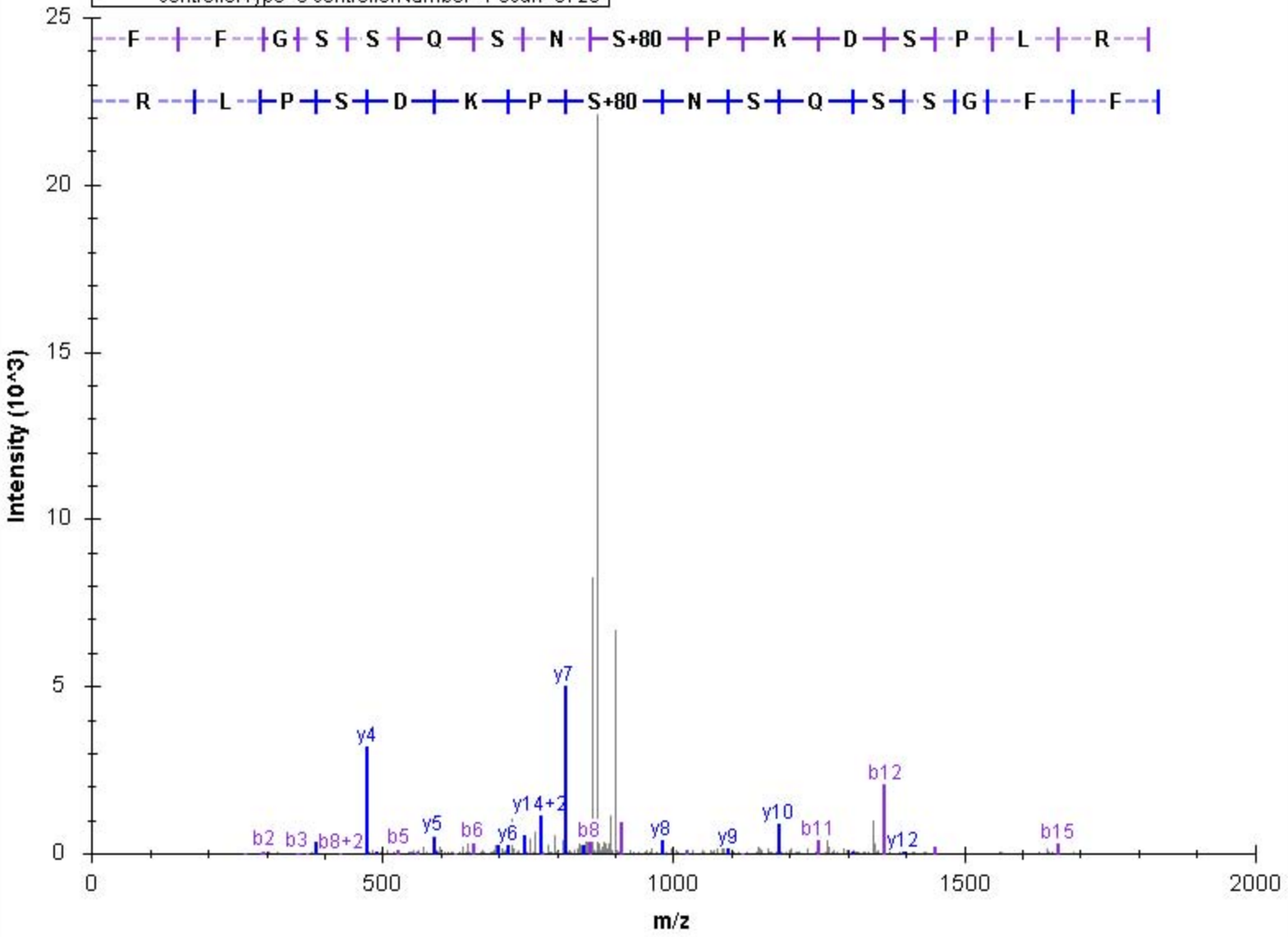


b	b(+2)				y	y(+2)
148.076	74.541	1	F	16	1913.850	957.429
295.144	148.076	2	F	15	1766.782	883.895
352.166	176.586	3	G	14	1619.714	810.360
439.198	220.102	4	S	13	1562.692	781.850
526.230	263.618	5	S	12	1475.660	738.334
654.288	327.648	6	Q	11	1388.628	694.818
821.320	411.164	7	S	10	1260.569	630.788
935.363	468.185	8	N	9	1093.537	547.272
1102.395	551.701	9	S	8	979.495	490.251
1199.448	600.228	10	P	7	812.462	406.735
1327.543	664.275	11	K	6	715.410	358.208
1442.570	721.789	12	D	5	587.315	294.161
1529.602	765.305	13	S	4	472.288	236.648
1626.655	813.831	14	P	3	385.256	193.132
1739.739	870.373	15	L	2	288.203	144.605
1895.840	948.424	16	R	1	175.119	88.063



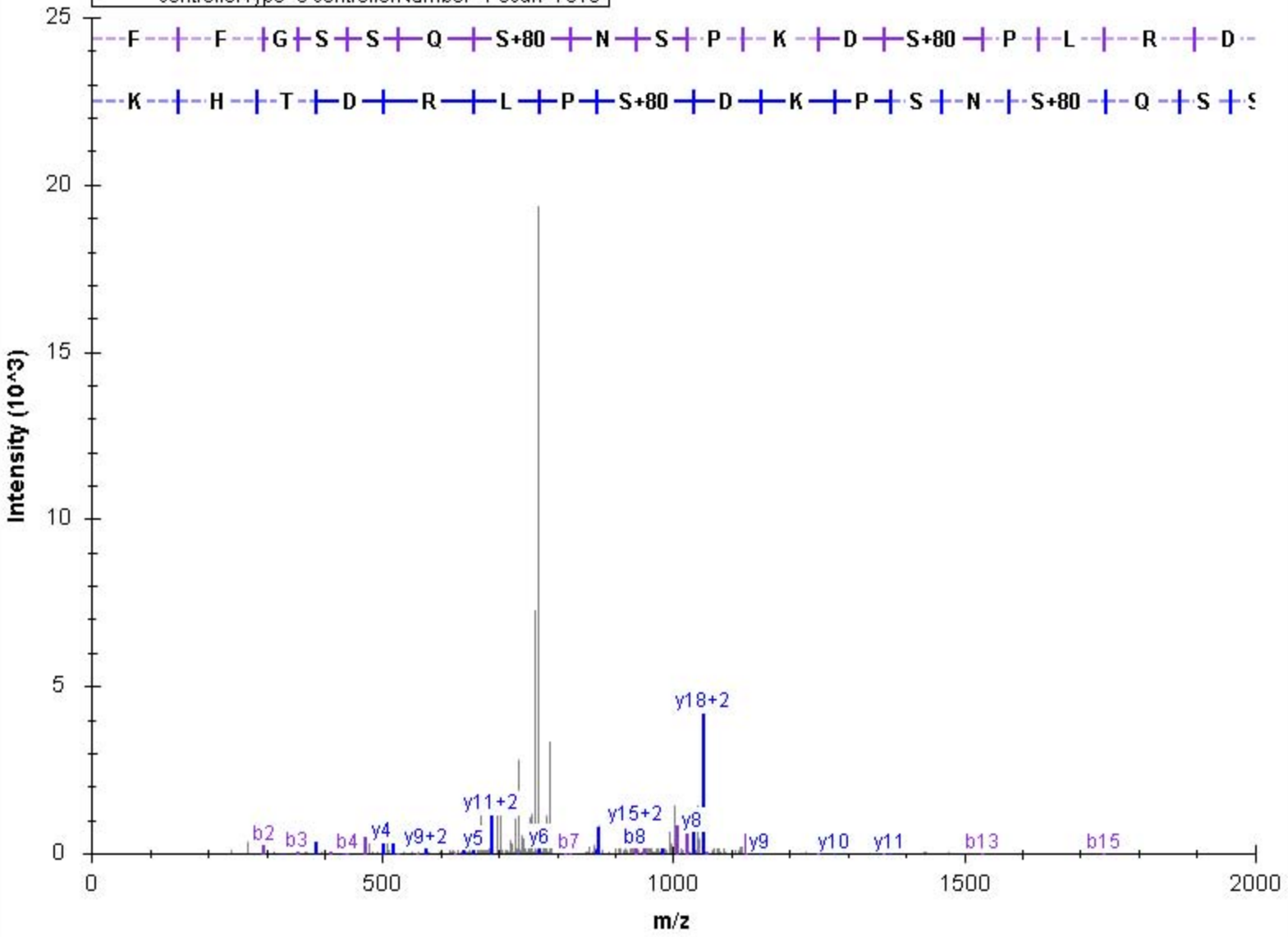
b	b(+2)				y	y(+2)
148.076	74.541	1	F	16	1833.850	917.429
295.144	148.076	2	F	15	1686.782	843.895
352.166	176.586	3	G	14	1539.714	770.360
439.198	220.102	4	S	13	1482.692	741.850
526.230	263.618	5	S	12	1395.660	698.334
654.288	327.648	6	Q	11	1308.628	654.818
741.320	371.164	7	S	10	1180.569	590.788
855.363	428.185	8	N	9	1093.537	547.272
1022.395	511.701	9	S	8	979.495	490.251
1119.448	560.228	10	P	7	812.462	406.735
1247.543	624.275	11	K	6	715.410	358.208
1362.570	681.789	12	D	5	587.315	294.161
1449.602	725.305	13	S	4	472.288	236.648
1546.655	773.831	14	P	3	385.256	193.132
1659.739	830.373	15	L	2	288.203	144.605
1815.840	908.424	16	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=8728



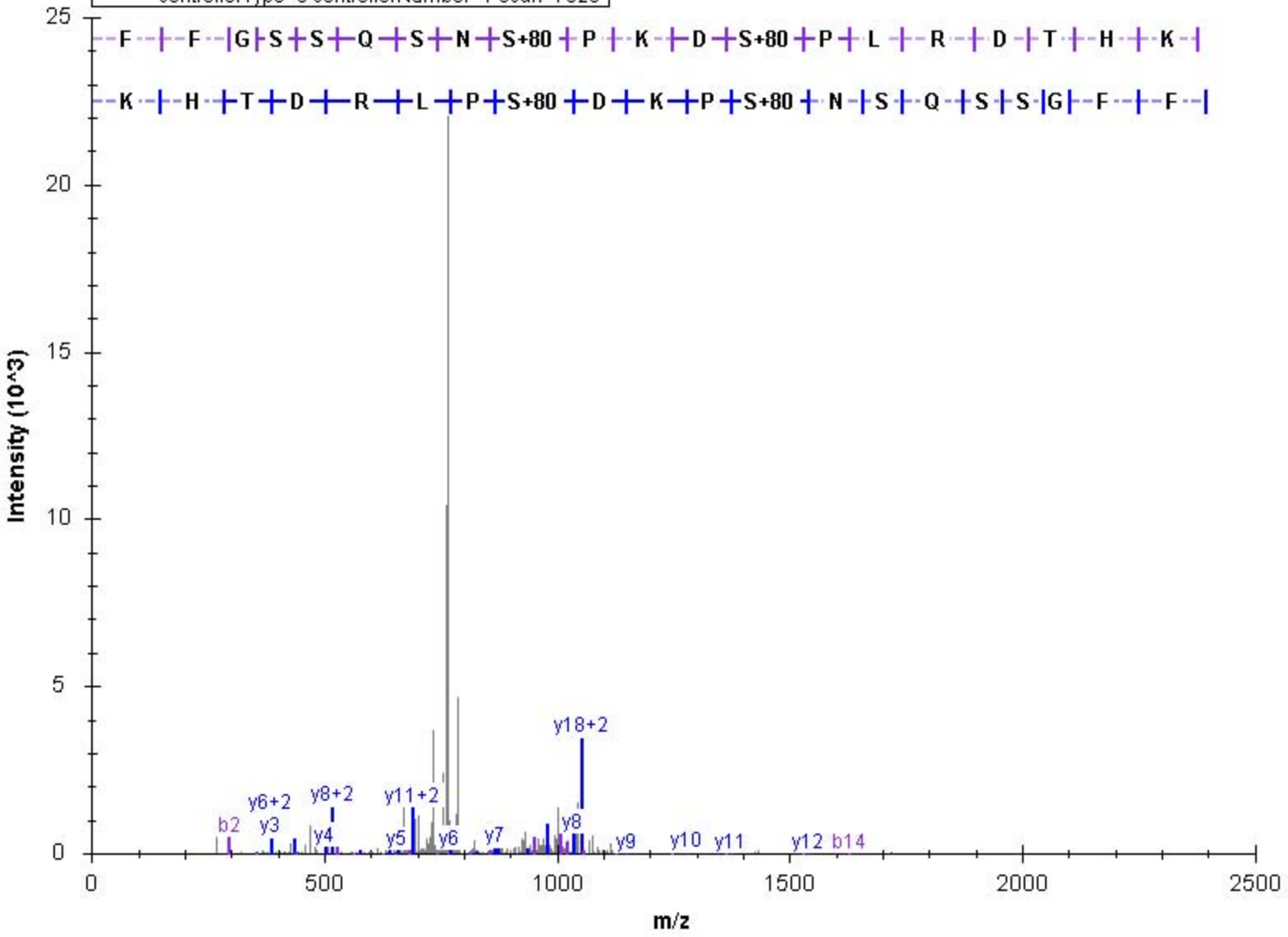
b	b(+2)				y	y(+2)
148.076	74.541	1	F	20	2395.079	1198.043
295.144	148.076	2	F	19	2248.010	1124.509
352.166	176.586	3	G	18	2100.942	1050.975
439.198	220.102	4	S	17	2043.921	1022.464
526.230	263.618	5	S	16	1956.889	978.948
654.288	327.648	6	Q	15	1869.857	935.432
821.320	411.164	7	S	14	1741.798	871.403
935.363	468.185	8	N	13	1574.766	787.887
1022.395	511.701	9	S	12	1460.723	730.865
1119.448	560.228	10	P	11	1373.691	687.349
1247.543	624.275	11	K	10	1276.638	638.823
1362.570	681.789	12	D	9	1148.543	574.775
1529.602	765.305	13	S	8	1033.516	517.262
1626.655	813.831	14	P	7	866.484	433.746
1739.739	870.373	15	L	6	769.432	385.219
1895.840	948.424	16	R	5	656.347	328.677
2010.867	1005.937	17	D	4	500.246	250.627
2111.914	1056.461	18	T	3	385.219	193.113
2248.973	1124.990	19	H	2	284.172	142.589
2377.068	1189.038	20	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7018



b	b(+2)			y	y(+2)	
148.076	74.541	1	F	20	2395.079	1198.043
295.144	148.076	2	F	19	2248.010	1124.509
352.166	176.586	3	G	18	2100.942	1050.975
439.198	220.102	4	S	17	2043.921	1022.464
526.230	263.618	5	S	16	1956.889	978.948
654.288	327.648	6	Q	15	1869.857	935.432
741.320	371.164	7	S	14	1741.798	871.403
855.363	428.185	8	N	13	1654.766	827.887
1022.395	511.701	9	S	12	1540.723	770.865
1119.448	560.228	10	P	11	1373.691	687.349
1247.543	624.275	11	K	10	1276.638	638.823
1362.570	681.789	12	D	9	1148.543	574.775
1529.602	765.305	13	S	8	1033.516	517.262
1626.655	813.831	14	P	7	866.484	433.746
1739.739	870.373	15	L	6	769.432	385.219
1895.840	948.424	16	R	5	656.347	328.677
2010.867	1005.937	17	D	4	500.246	250.627
2111.914	1056.461	18	T	3	385.219	193.113
2248.973	1124.990	19	H	2	284.172	142.589
2377.068	1189.038	20	K	1	147.113	74.060

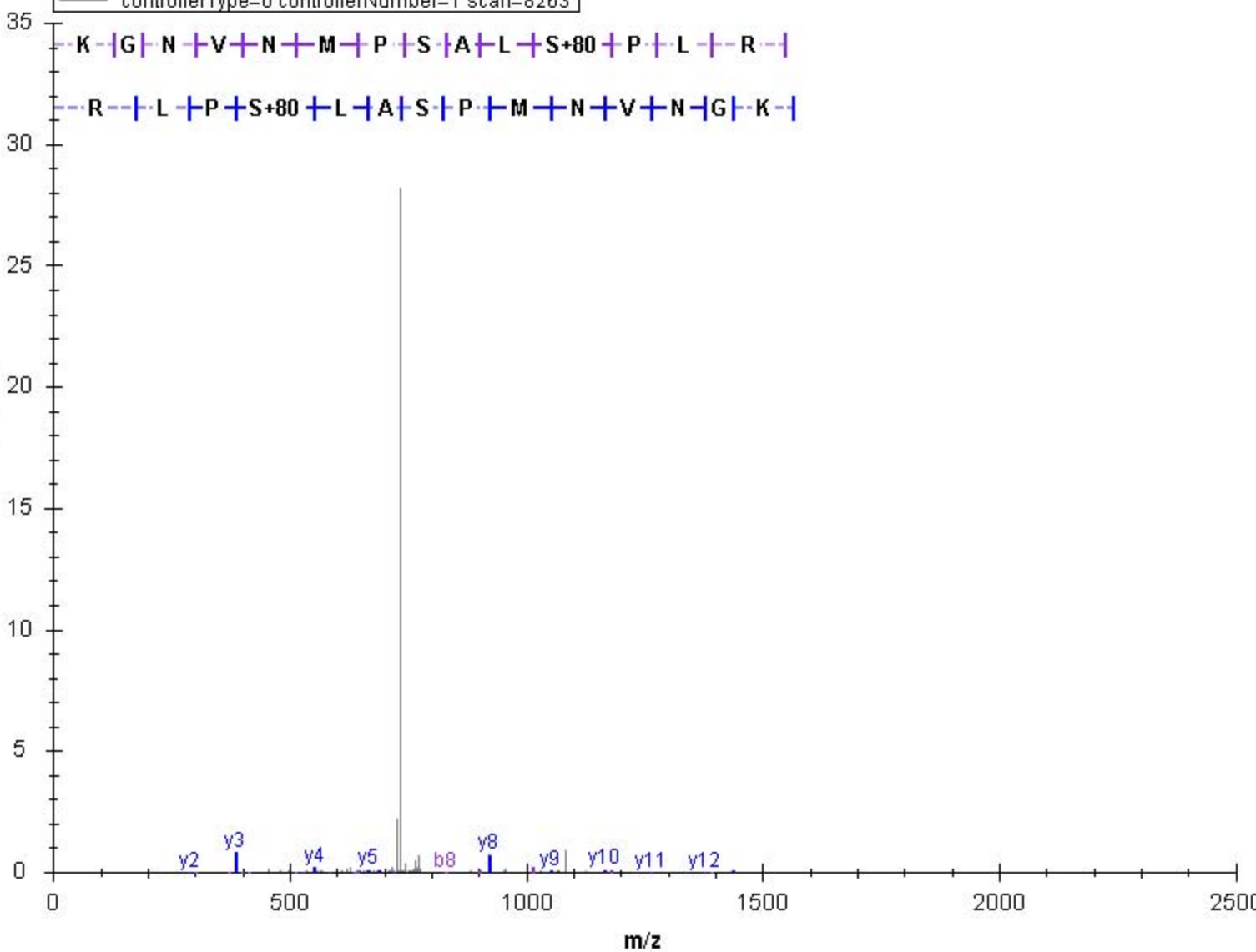
controllerType=0 controllerNumber=1 scan=7026



b	b(+2)				y	y(+2)
129.102	65.055	1	K	14	1563.805	782.406
186.124	93.565	2	G	13	1435.710	718.359
300.167	150.587	3	N	12	1378.689	689.848
399.235	200.121	4	V	11	1264.646	632.826
513.278	257.143	5	N	10	1165.577	583.292
644.318	322.663	6	M	9	1051.534	526.271
741.371	371.189	7	P	8	920.494	460.751
828.403	414.705	8	S	7	823.441	412.224
899.440	450.224	9	A	6	736.409	368.708
1012.524	506.766	10	L	5	665.372	333.190
1179.556	590.282	11	S	4	552.288	276.648
1276.609	638.808	12	P	3	385.256	193.132
1389.693	695.350	13	L	2	288.203	144.605
1545.794	773.401	14	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=8263

Intensity (10³)



K-G-N-V-N-M-P-S-A-L-S+80-P-L-R

R-L-P-S+80-L-A-S-P-M-N-V-N-G-K

y2

y3

y4

y5

b8

y8

y9

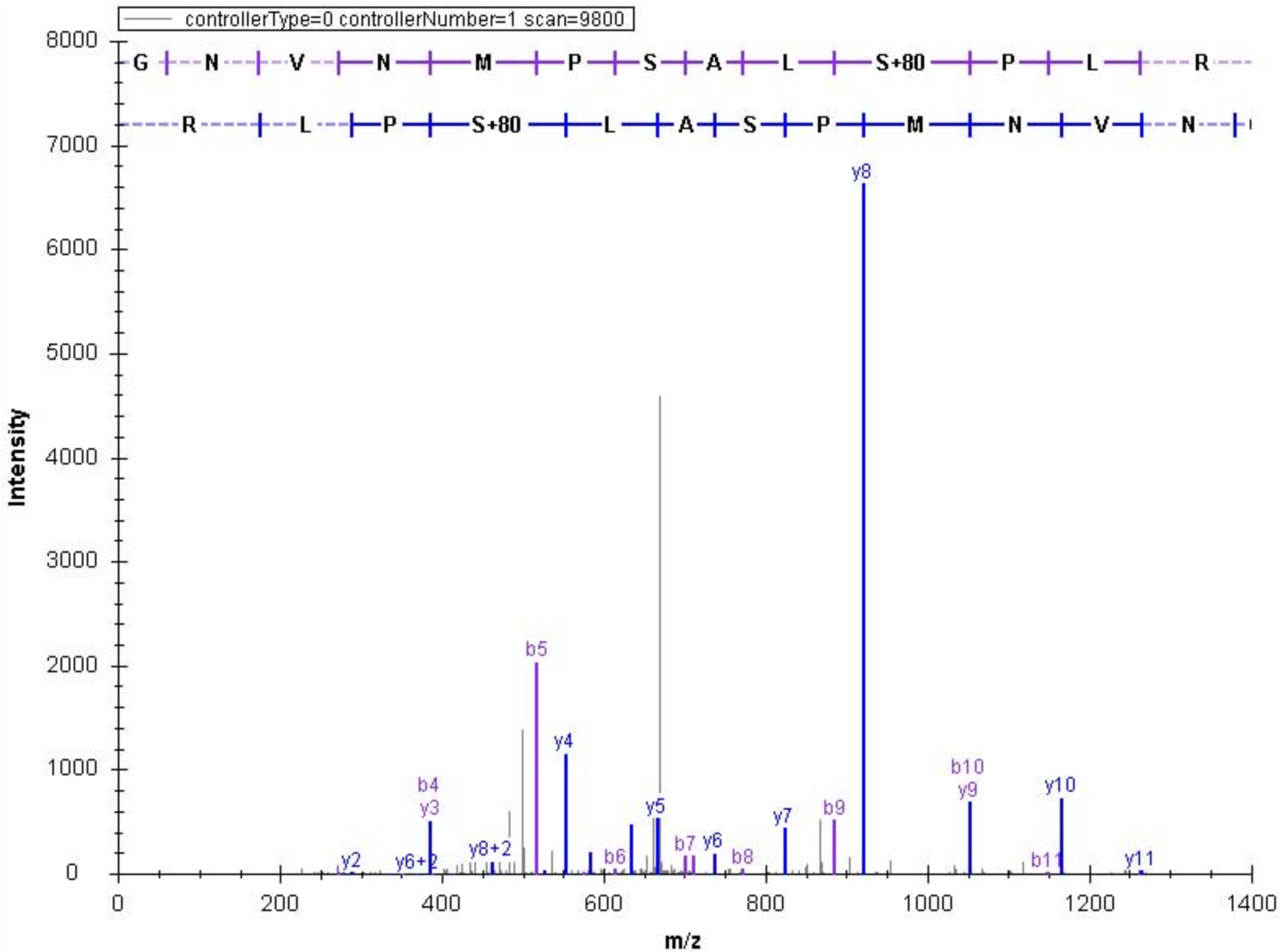
y10

y11

y12

m/z

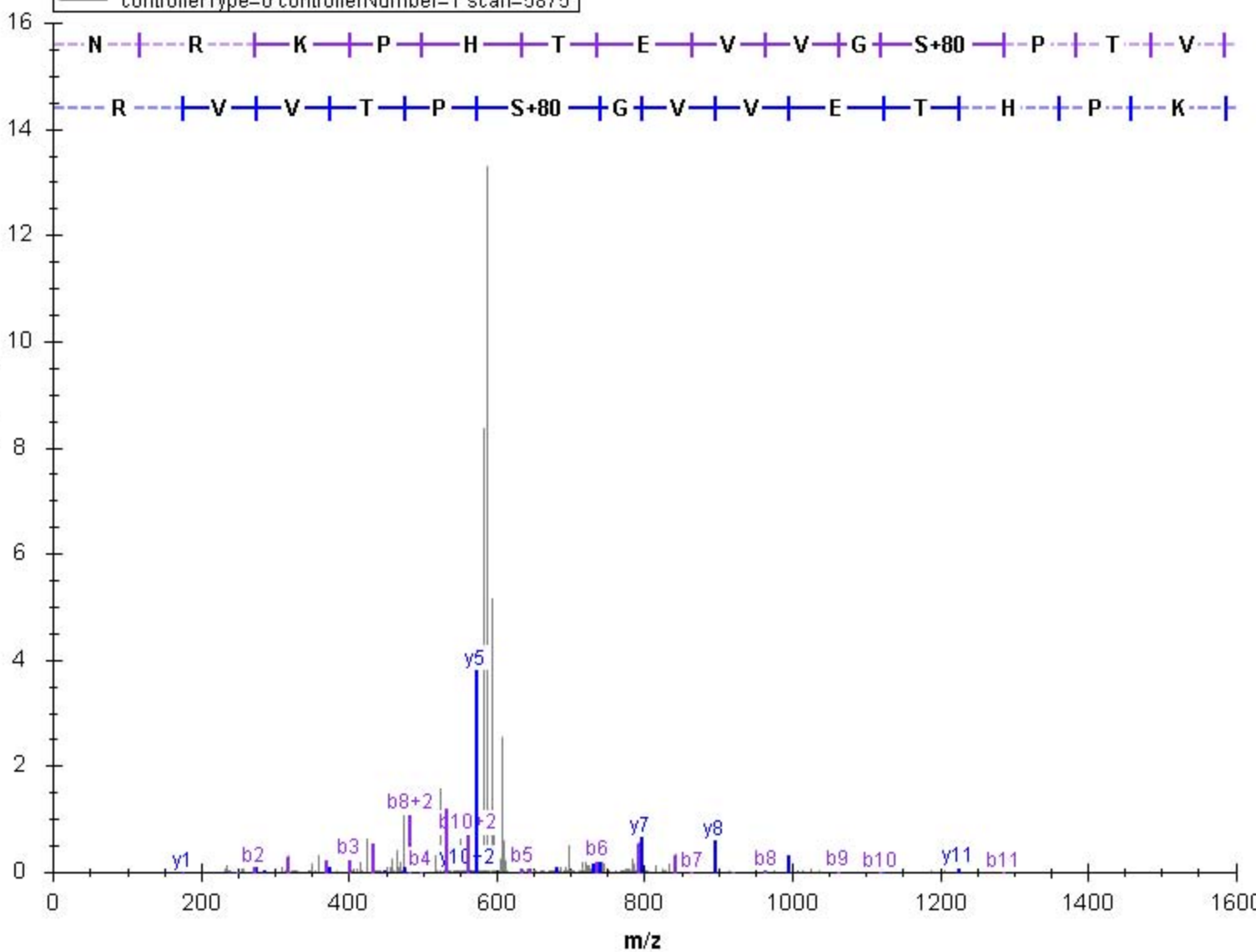
b	b(+2)				y	y(+2)
58.029	29.518	1	G	13	1435.710	718.359
172.072	86.539	2	N	12	1378.689	689.848
271.140	136.074	3	V	11	1264.646	632.826
385.183	193.095	4	N	10	1165.577	583.292
516.223	258.615	5	M	9	1051.534	526.271
613.276	307.142	6	P	8	920.494	460.751
700.308	350.658	7	S	7	823.441	412.224
771.345	386.176	8	A	6	736.409	368.708
884.429	442.718	9	L	5	665.372	333.190
1051.461	526.234	10	S	4	552.288	276.648
1148.514	574.761	11	P	3	385.256	193.132
1261.598	631.303	12	L	2	288.203	144.605
1417.699	709.353	13	R	1	175.119	88.063



b	b(+2)				y	y(+2)
115.050	58.029	1	N	16	1855.987	928.497
271.151	136.079	2	R	15	1741.945	871.476
399.246	200.127	3	K	14	1585.843	793.425
496.299	248.653	4	P	13	1457.748	729.378
633.358	317.183	5	H	12	1360.696	680.852
734.406	367.706	6	T	11	1223.637	612.322
863.448	432.228	7	E	10	1122.589	561.798
962.517	481.762	8	V	9	993.547	497.277
1061.585	531.296	9	V	8	894.478	447.743
1118.607	559.807	10	G	7	795.410	398.208
1285.639	643.323	11	S	6	738.388	369.698
1382.691	691.849	12	P	5	571.356	286.182
1483.739	742.373	13	T	4	474.303	237.655
1582.807	791.907	14	V	3	373.256	187.132
1681.876	841.442	15	V	2	274.187	137.597
1837.977	919.492	16	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=5875

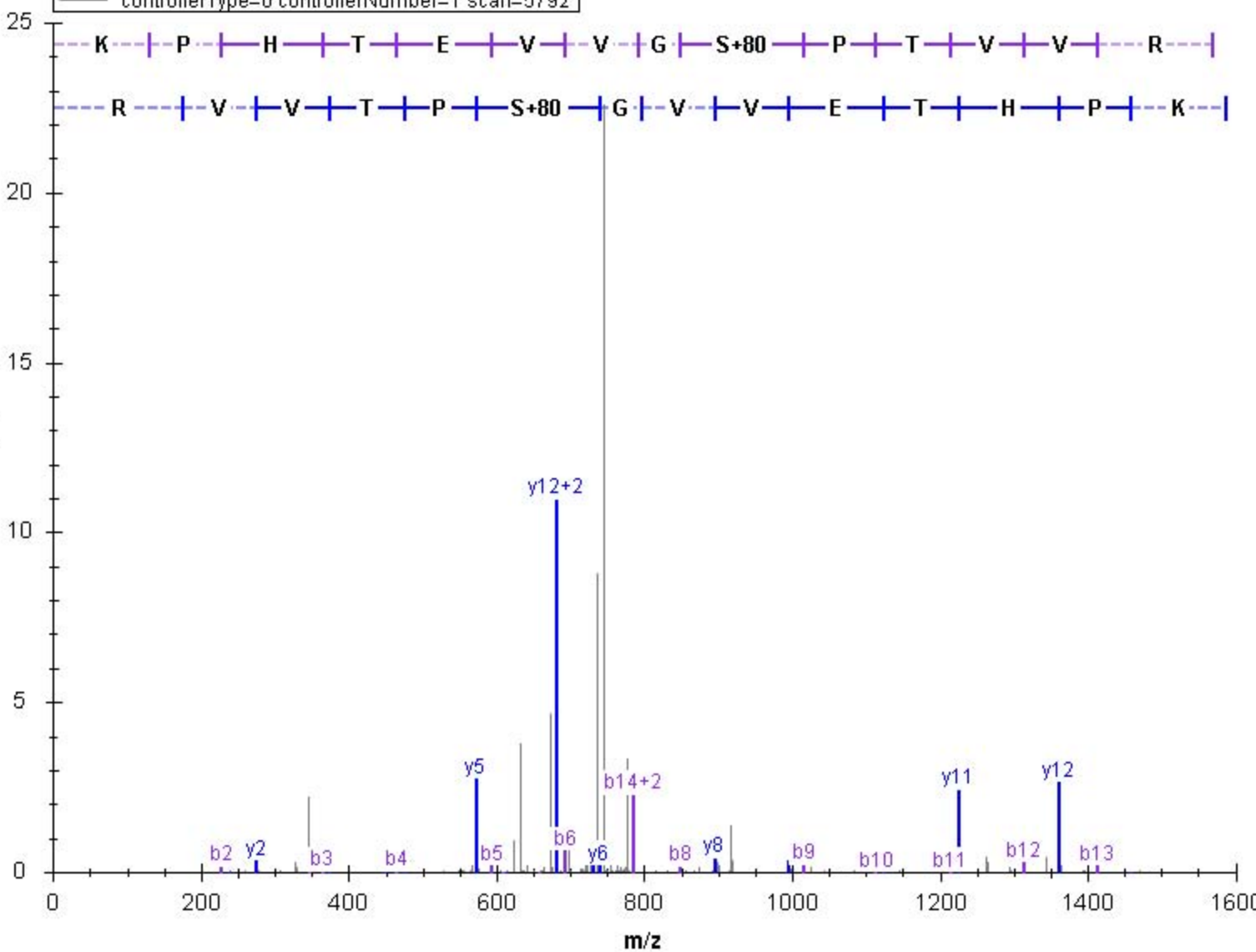
Intensity (10³)



b	b(+2)			y	y(+2)	
129.102	65.055	1	K	14	1585.843	793.425
226.155	113.581	2	P	13	1457.748	729.378
363.214	182.111	3	H	12	1360.696	680.852
464.262	232.634	4	T	11	1223.637	612.322
593.304	297.156	5	E	10	1122.589	561.798
692.373	346.690	6	V	9	993.547	497.277
791.441	396.224	7	V	8	894.478	447.743
848.462	424.735	8	G	7	795.410	398.208
1015.495	508.251	9	S	6	738.388	369.698
1112.547	556.777	10	P	5	571.356	286.182
1213.595	607.301	11	T	4	474.303	237.655
1312.663	656.835	12	V	3	373.256	187.132
1411.732	706.370	13	V	2	274.187	137.597
1567.833	784.420	14	R	1	175.119	88.063

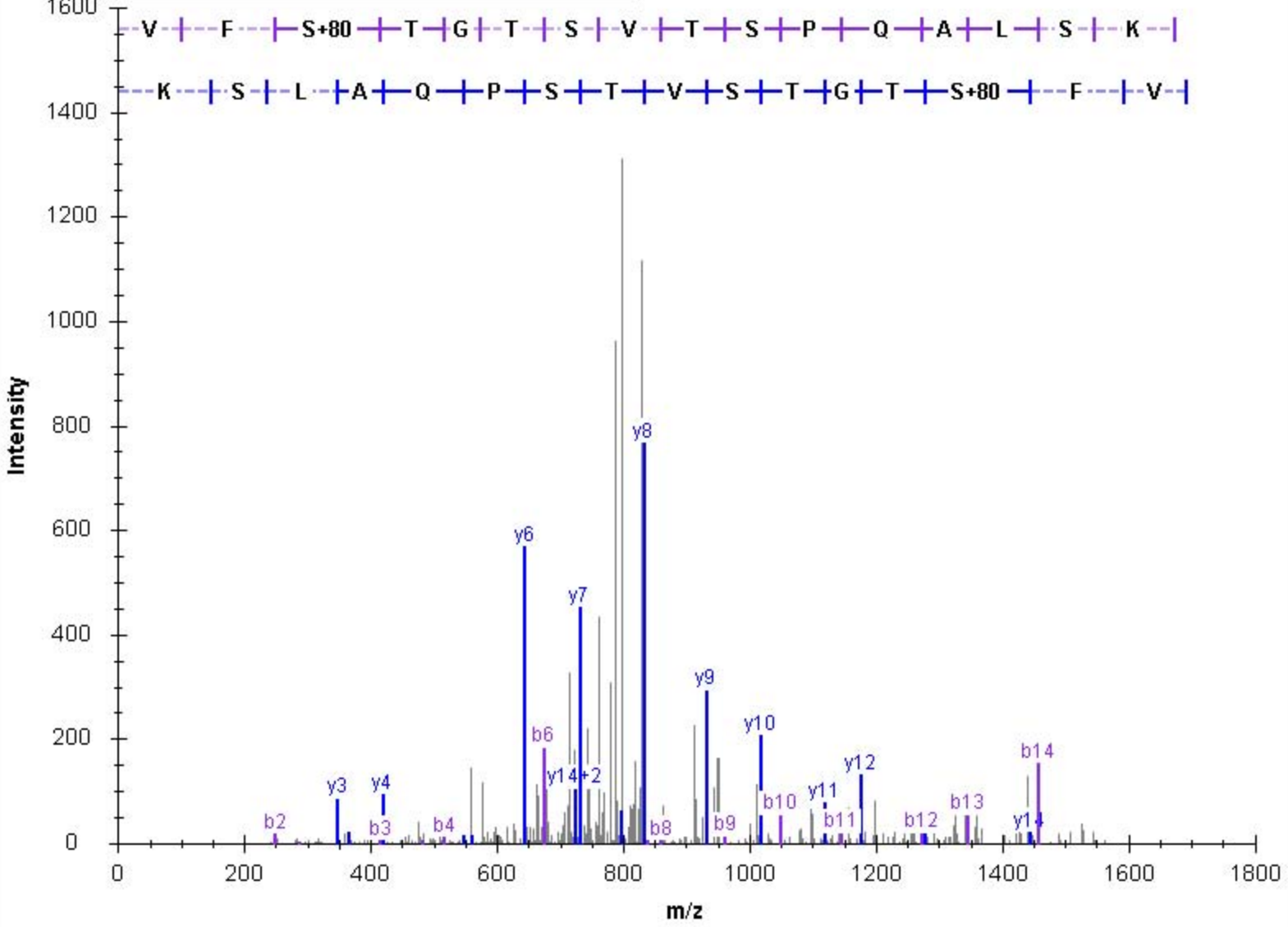
controllerType=0 controllerNumber=1 scan=5792

Intensity (10³)



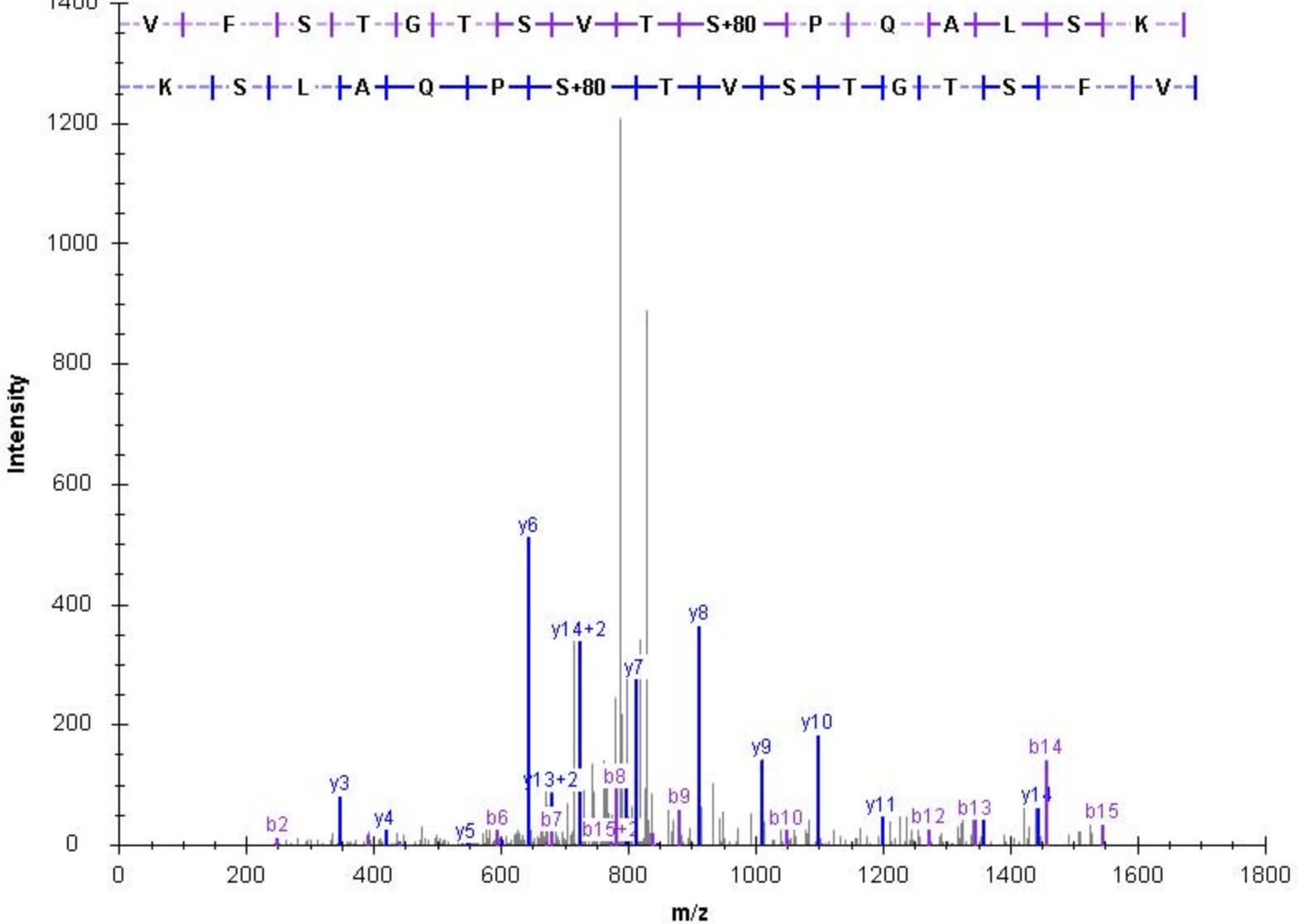
b	b(+2)				y	y(+2)
100.076	50.541	1	V	16	1689.843	845.425
247.144	124.076	2	F	15	1590.775	795.891
414.176	207.592	3	S	14	1443.706	722.357
515.224	258.116	4	T	13	1276.674	638.841
572.245	286.626	5	G	12	1175.627	588.317
673.293	337.150	6	T	11	1118.605	559.806
760.325	380.666	7	S	10	1017.558	509.282
859.393	430.200	8	V	9	930.525	465.766
960.441	480.724	9	T	8	831.457	416.232
1047.473	524.240	10	S	7	730.409	365.708
1144.526	572.767	11	P	6	643.377	322.192
1272.584	636.796	12	Q	5	546.325	273.666
1343.622	672.314	13	A	4	418.266	209.637
1456.706	728.856	14	L	3	347.229	174.118
1543.738	772.372	15	S	2	234.145	117.576
1671.833	836.420	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8955



b	b(+2)				y	y(+2)
100.076	50.541	1	V	16	1689.843	845.425
247.144	124.076	2	F	15	1590.775	795.891
334.176	167.592	3	S	14	1443.706	722.357
435.224	218.116	4	T	13	1356.674	678.841
492.245	246.626	5	G	12	1255.627	628.317
593.293	297.150	6	T	11	1198.605	599.806
680.325	340.666	7	S	10	1097.558	549.282
779.393	390.200	8	V	9	1010.525	505.766
880.441	440.724	9	T	8	911.457	456.232
1047.473	524.240	10	S	7	810.409	405.708
1144.526	572.767	11	P	6	643.377	322.192
1272.584	636.796	12	Q	5	546.325	273.666
1343.622	672.314	13	A	4	418.266	209.637
1456.706	728.856	14	L	3	347.229	174.118
1543.738	772.372	15	S	2	234.145	117.576
1671.833	836.420	16	K	1	147.113	74.060

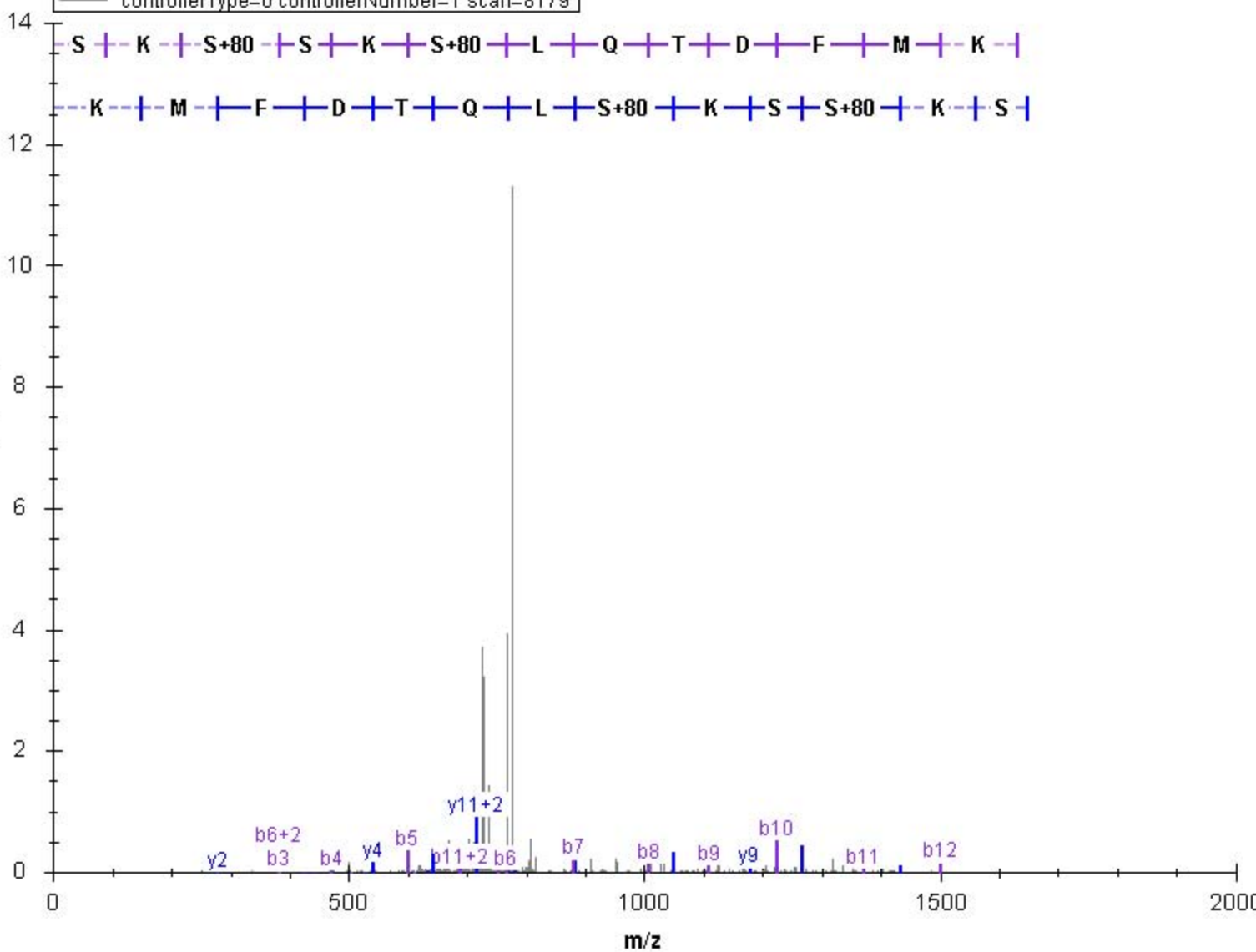
controllerType=0 controllerNumber=1 scan=7794



b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1646.757	823.882
216.134	108.571	2	K	12	1559.725	780.366
383.166	192.087	3	S	11	1431.630	716.319
470.198	235.603	4	S	10	1264.598	632.803
598.293	299.650	5	K	9	1177.566	589.287
765.325	383.166	6	S	8	1049.471	525.239
878.409	439.708	7	L	7	882.439	441.723
1006.468	503.738	8	Q	6	769.355	385.181
1107.516	554.261	9	T	5	641.296	321.152
1222.543	611.775	10	D	4	540.249	270.628
1369.611	685.309	11	F	3	425.222	213.114
1500.651	750.829	12	M	2	278.153	139.580
1628.746	814.877	13	K	1	147.113	74.060

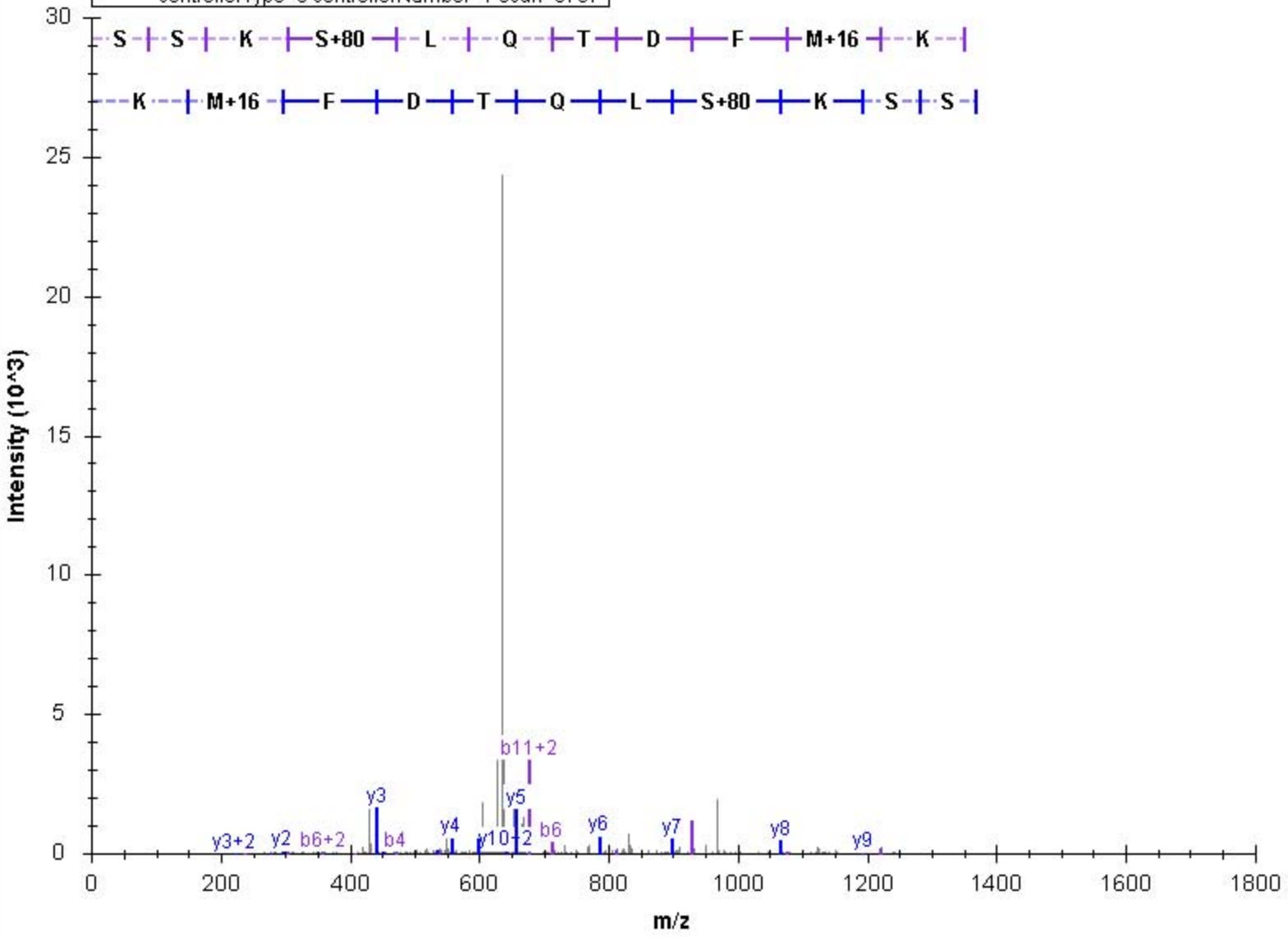
controllerType=0 controllerNumber=1 scan=8179

Intensity (10³)



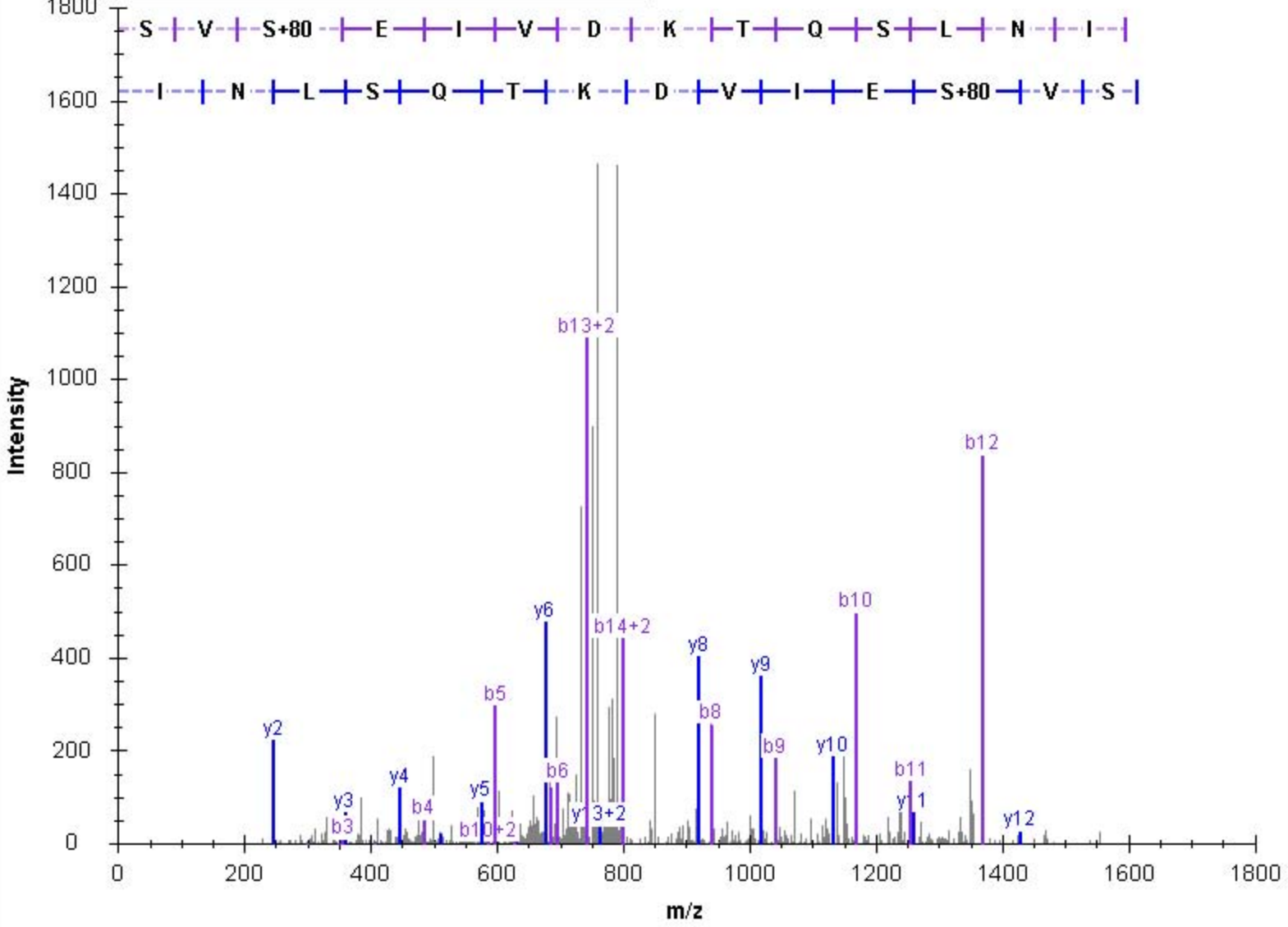
b	b(+2)				y	y(+2)
88.039	44.523	1	S	11	1367.630	684.319
175.071	88.039	2	S	10	1280.598	640.803
303.166	152.087	3	K	9	1193.566	597.287
470.198	235.603	4	S	8	1065.471	533.239
583.282	292.145	5	L	7	898.439	449.723
711.341	356.174	6	Q	6	785.355	393.181
812.389	406.698	7	T	5	657.296	329.152
927.416	464.211	8	D	4	556.249	278.628
1074.484	537.746	9	F	3	441.222	221.114
1221.524	611.266	10	M	2	294.153	147.580
1349.619	675.313	11	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=6707



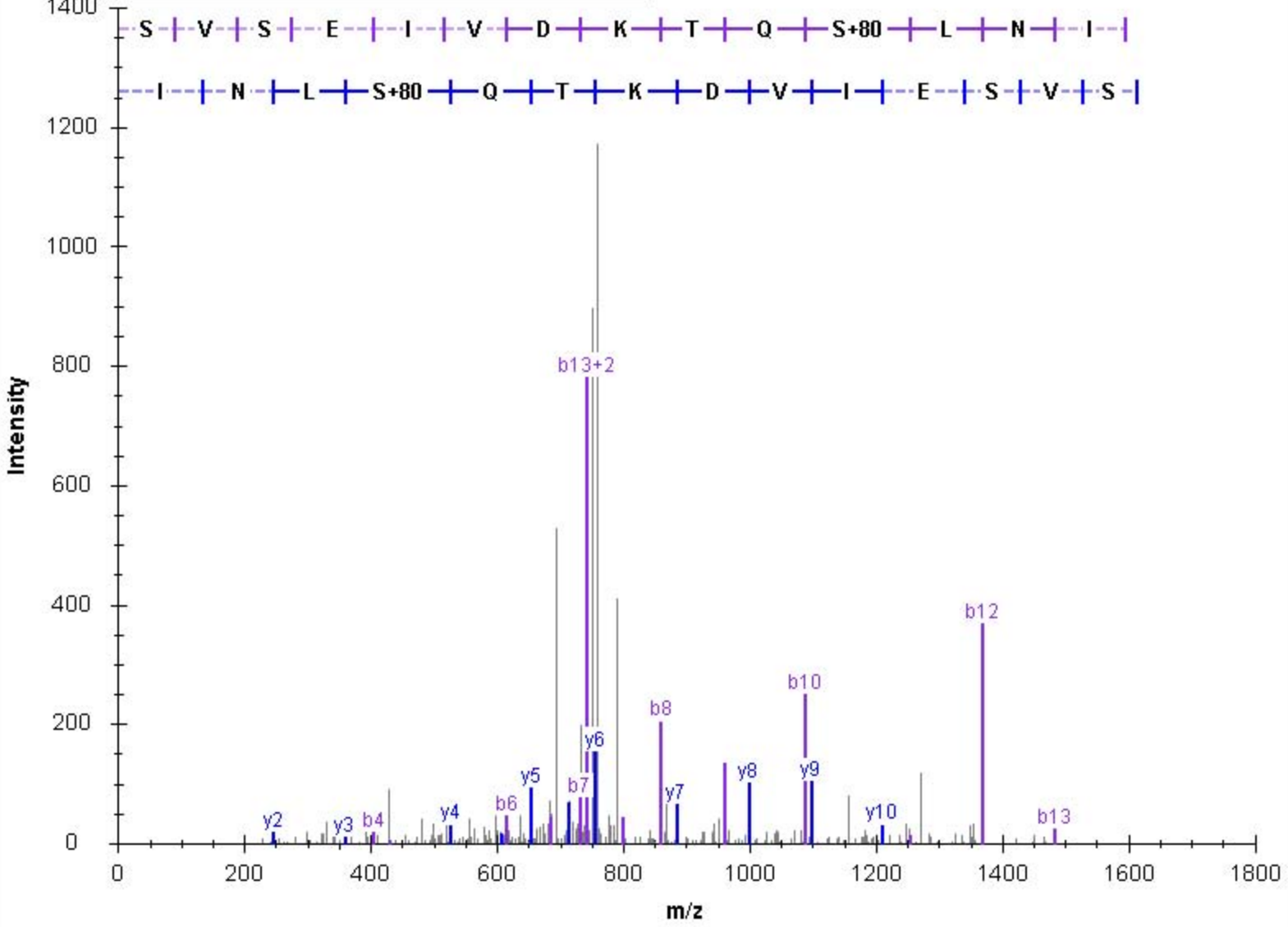
b	b(+2)				y	y(+2)
88.039	44.523	1	S	14	1612.817	806.912
187.108	94.057	2	V	13	1525.785	763.396
354.140	177.574	3	S	12	1426.716	713.862
483.182	242.095	4	E	11	1259.684	630.346
596.266	298.637	5	I	10	1130.642	565.824
695.335	348.171	6	V	9	1017.558	509.282
810.362	405.685	7	D	8	918.489	459.748
938.457	469.732	8	K	7	803.462	402.235
1039.504	520.256	9	T	6	675.367	338.187
1167.563	584.285	10	Q	5	574.320	287.663
1254.595	627.801	11	S	4	446.261	223.634
1367.679	684.343	12	L	3	359.229	180.118
1481.722	741.365	13	N	2	246.145	123.576
1594.806	797.907	14	I	1	132.102	66.555

controllerType=0 controllerNumber=1 scan=10200



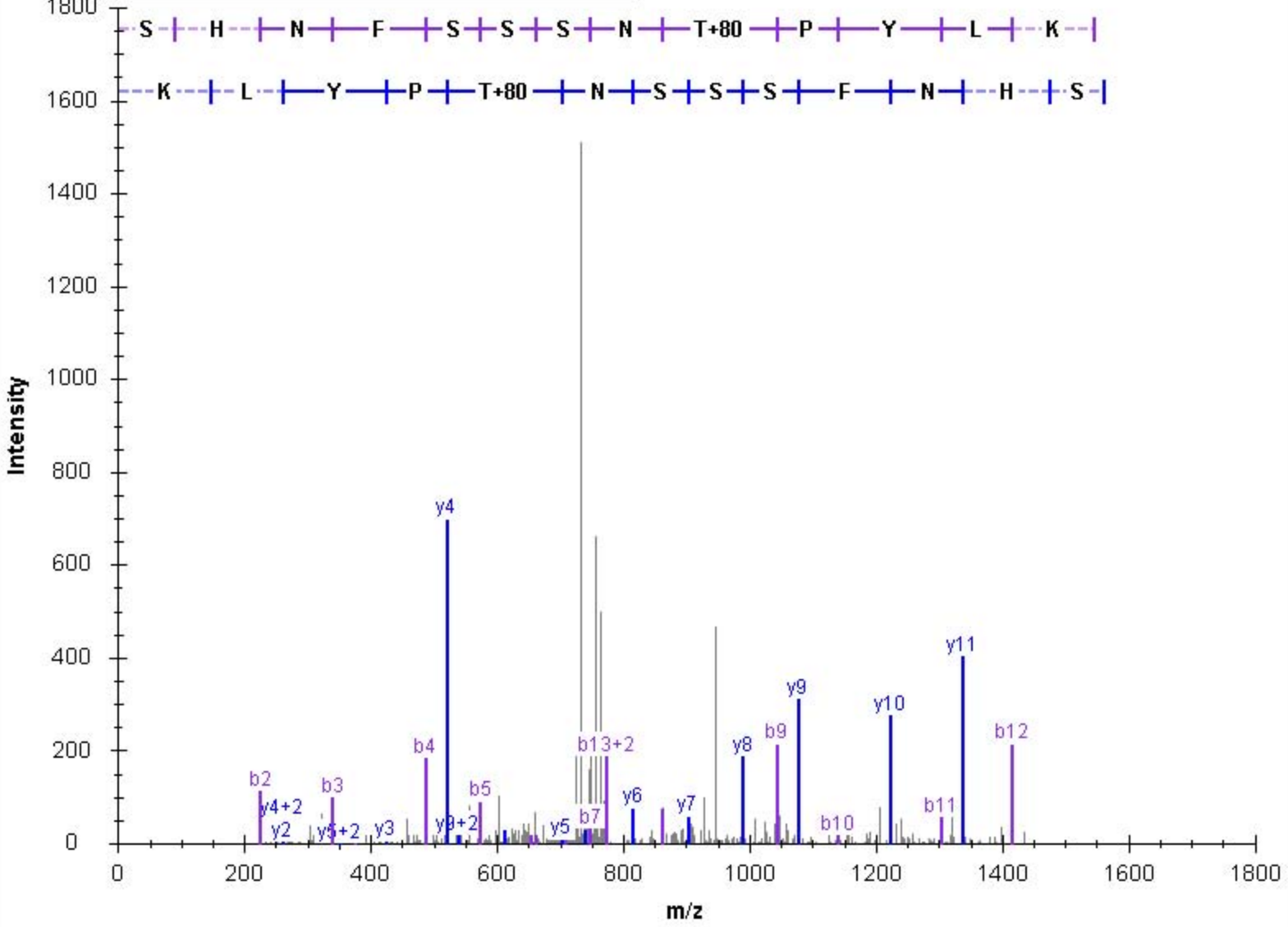
b	b(+2)				y	y(+2)
88.039	44.523	1	S	14	1612.817	806.912
187.108	94.057	2	V	13	1525.785	763.396
274.140	137.574	3	S	12	1426.716	713.862
403.182	202.095	4	E	11	1339.684	670.346
516.266	258.637	5	I	10	1210.642	605.824
615.335	308.171	6	V	9	1097.558	549.282
730.362	365.685	7	D	8	998.489	499.748
858.457	429.732	8	K	7	883.462	442.235
959.504	480.256	9	T	6	755.367	378.187
1087.563	544.285	10	Q	5	654.320	327.663
1254.595	627.801	11	S	4	526.261	263.634
1367.679	684.343	12	L	3	359.229	180.118
1481.722	741.365	13	N	2	246.145	123.576
1594.806	797.907	14	I	1	132.102	66.555

controllerType=0 controllerNumber=1 scan=10317



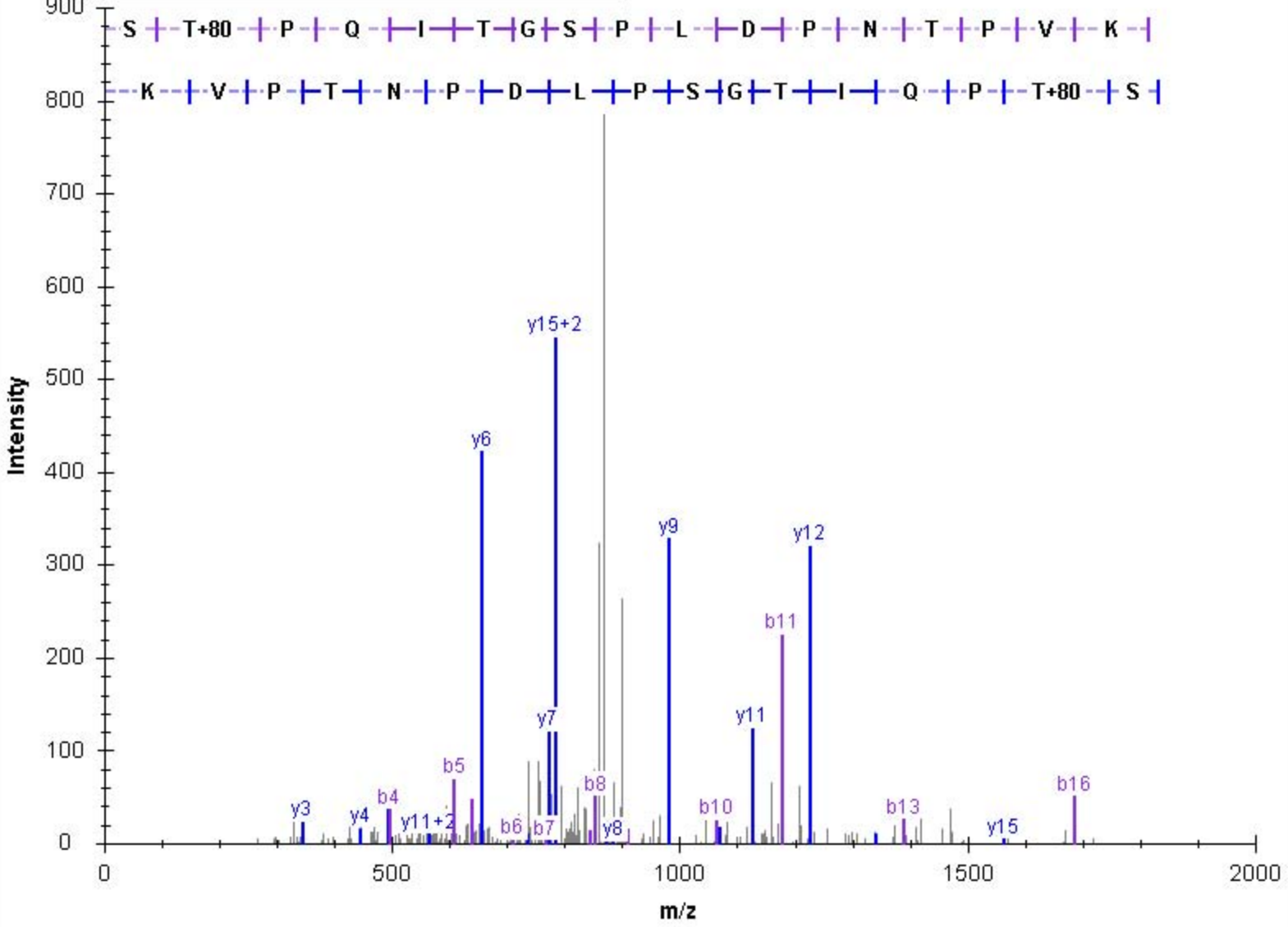
b	b(+2)				y	y(+2)
88.039	44.523	1	S	13	1561.702	781.355
225.098	113.053	2	H	12	1474.670	737.839
339.141	170.074	3	N	11	1337.611	669.309
486.210	243.608	4	F	10	1223.568	612.288
573.242	287.124	5	S	9	1076.500	538.753
660.274	330.640	6	S	8	989.468	495.237
747.306	374.156	7	S	7	902.436	451.721
861.349	431.178	8	N	6	815.404	408.205
1042.396	521.702	9	T	5	701.361	351.184
1139.449	570.228	10	P	4	520.313	260.660
1302.512	651.760	11	Y	3	423.260	212.134
1415.596	708.302	12	L	2	260.197	130.602
1543.691	772.349	13	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7201



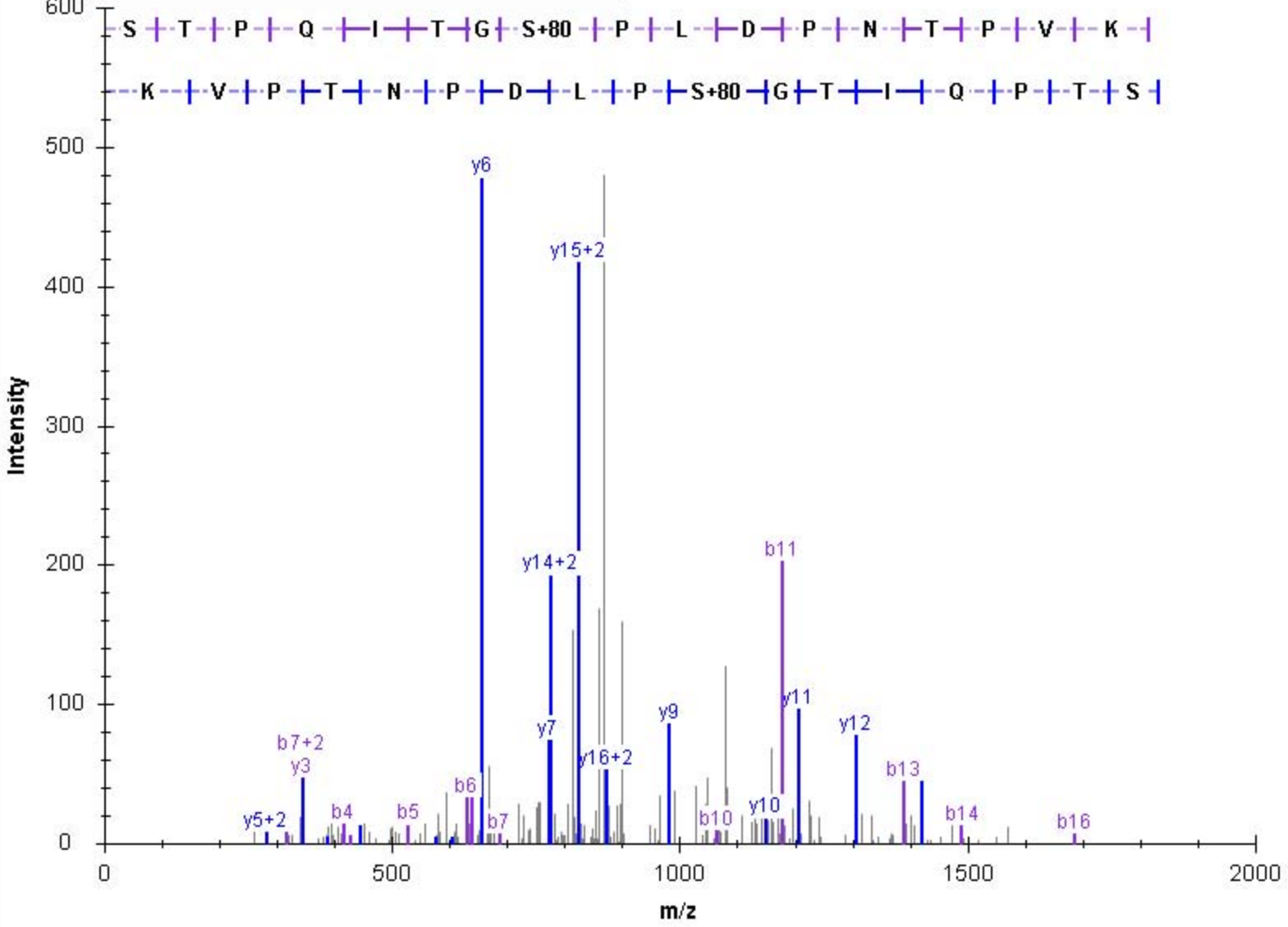
b	b(+2)				y	y(+2)
88.039	44.523	1	S	17	1831.917	916.462
269.087	135.047	2	T	16	1744.885	872.946
366.140	183.574	3	P	15	1563.838	782.422
494.198	247.603	4	Q	14	1466.785	733.896
607.282	304.145	5	I	13	1338.726	669.867
708.330	354.669	6	T	12	1225.642	613.325
765.352	383.179	7	G	11	1124.595	562.801
852.384	426.695	8	S	10	1067.573	534.290
949.436	475.222	9	P	9	980.541	490.774
1062.520	531.764	10	L	8	883.488	442.248
1177.547	589.277	11	D	7	770.404	385.706
1274.600	637.804	12	P	6	655.377	328.192
1388.643	694.825	13	N	5	558.325	279.666
1489.691	745.349	14	T	4	444.282	222.644
1586.743	793.875	15	P	3	343.234	172.121
1685.812	843.410	16	V	2	246.181	123.594
1813.907	907.457	17	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8756



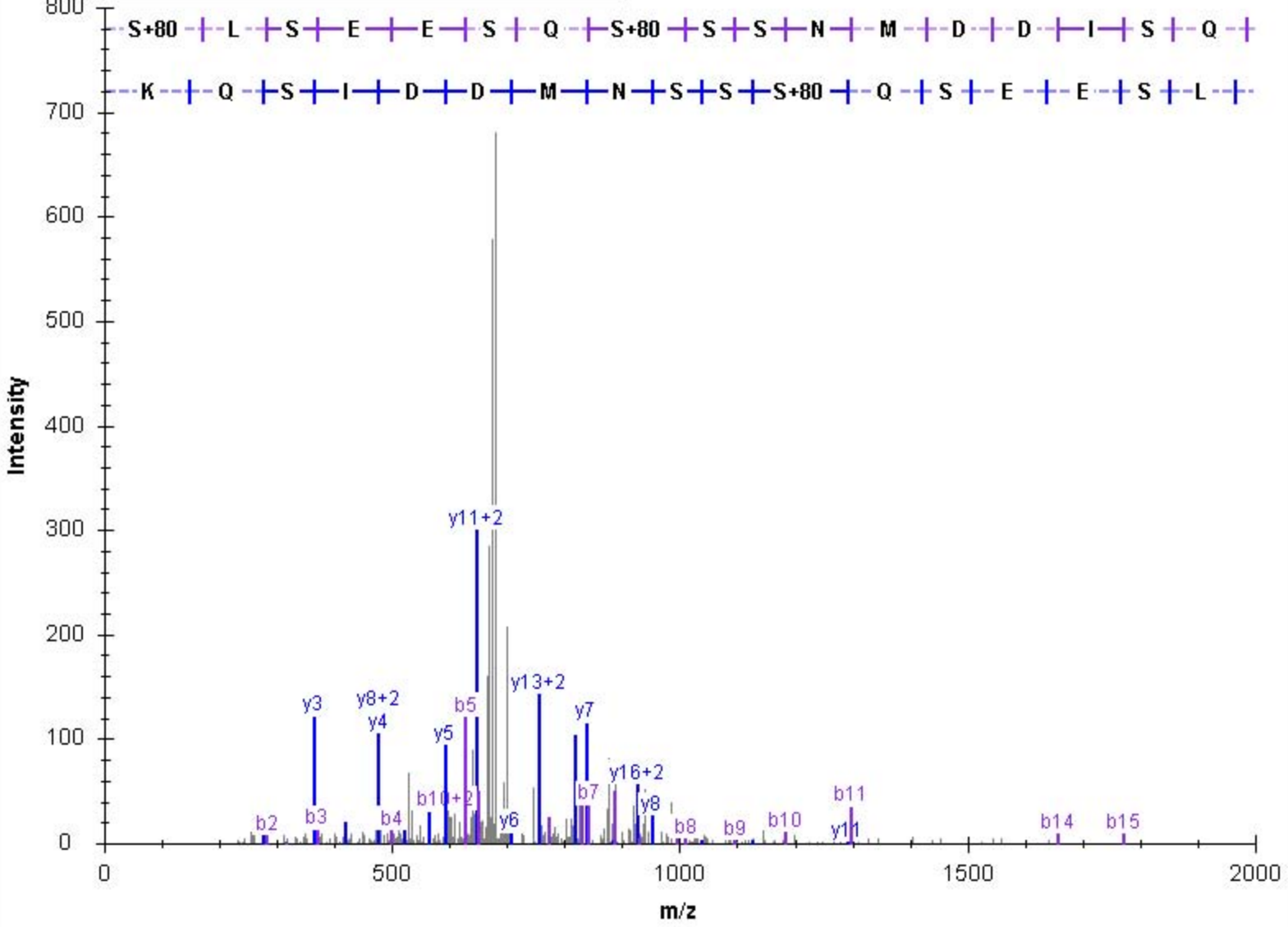
b	b(+2)				y	y(+2)
88.039	44.523	1	S	17	1831.917	916.462
189.087	95.047	2	T	16	1744.885	872.946
286.140	143.574	3	P	15	1643.838	822.422
414.198	207.603	4	Q	14	1546.785	773.896
527.282	264.145	5	I	13	1418.726	709.867
628.330	314.669	6	T	12	1305.642	653.325
685.352	343.179	7	G	11	1204.595	602.801
852.384	426.695	8	S	10	1147.573	574.290
949.436	475.222	9	P	9	980.541	490.774
1062.520	531.764	10	L	8	883.488	442.248
1177.547	589.277	11	D	7	770.404	385.706
1274.600	637.804	12	P	6	655.377	328.192
1388.643	694.825	13	N	5	558.325	279.666
1489.691	745.349	14	T	4	444.282	222.644
1586.743	793.875	15	P	3	343.234	172.121
1685.812	843.410	16	V	2	246.181	123.594
1813.907	907.457	17	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8479



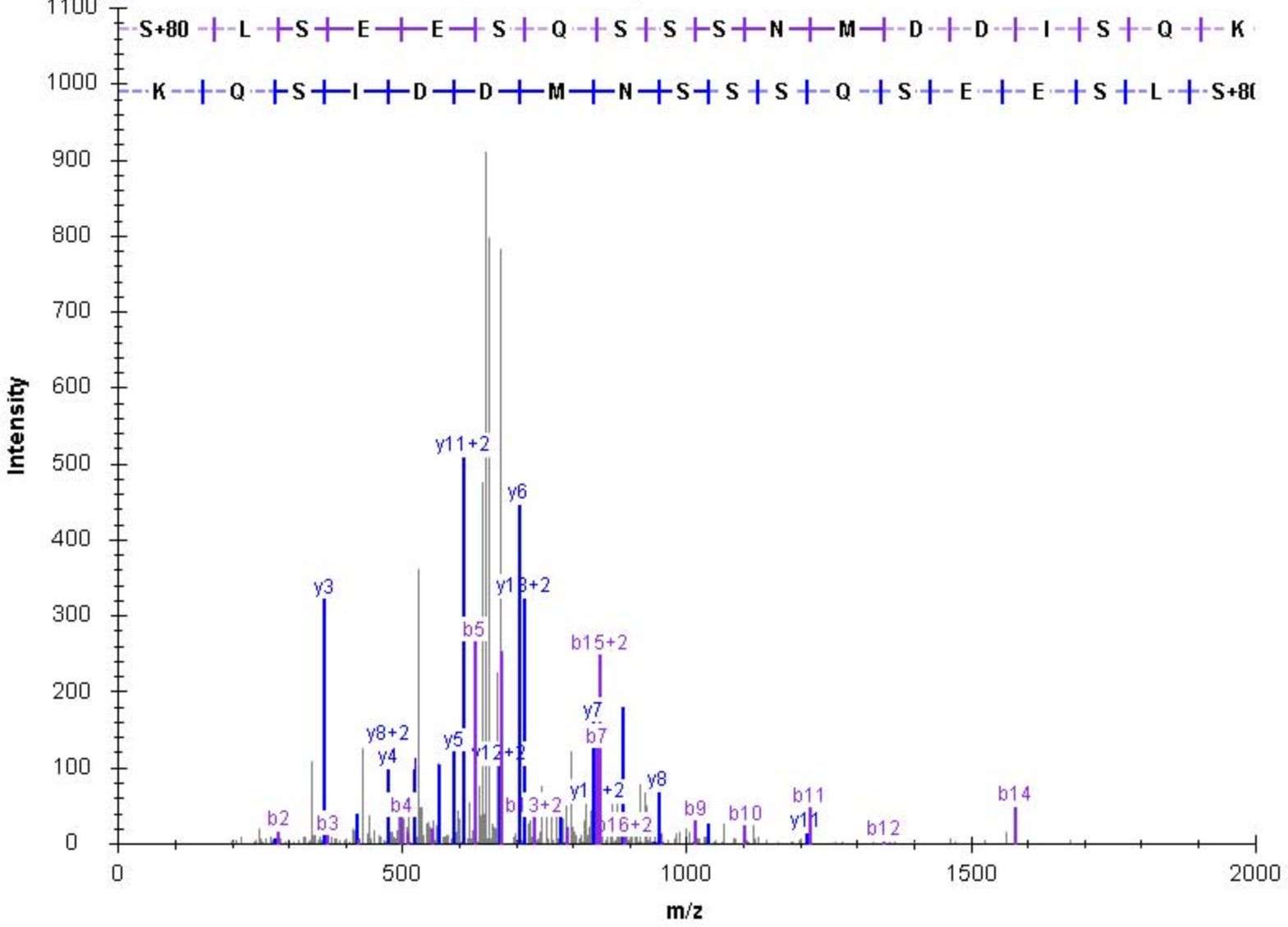
b	b(+2)				y	y(+2)
168.039	84.523	1	S	18	2131.845	1066.426
281.123	141.065	2	L	17	1964.813	982.910
368.155	184.581	3	S	16	1851.729	926.368
497.198	249.103	4	E	15	1764.697	882.852
626.241	313.624	5	E	14	1635.654	818.331
713.273	357.140	6	S	13	1506.611	753.809
841.331	421.169	7	Q	12	1419.579	710.293
1008.363	504.685	8	S	11	1291.521	646.264
1095.395	548.201	9	S	10	1124.489	562.748
1182.427	591.717	10	S	9	1037.457	519.232
1296.470	648.739	11	N	8	950.425	475.716
1427.511	714.259	12	M	7	836.382	418.695
1542.538	771.772	13	D	6	705.341	353.174
1657.565	829.286	14	D	5	590.314	295.661
1770.649	885.828	15	I	4	475.287	238.147
1857.681	929.344	16	S	3	362.203	181.605
1985.739	993.373	17	Q	2	275.171	138.089
2113.834	1057.421	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7983



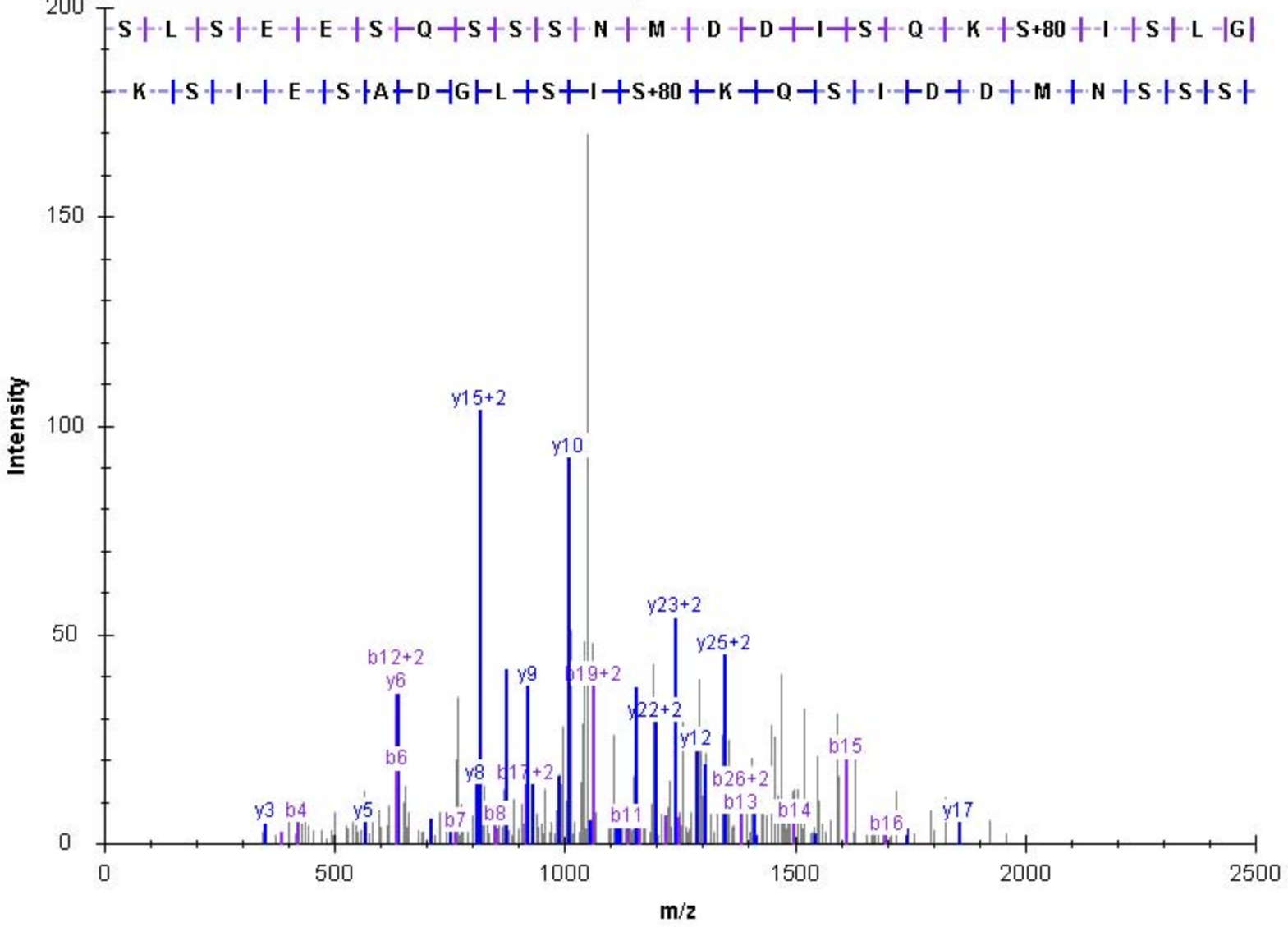
b	b(+2)				y	y(+2)
168.039	84.523	1	S	18	2051.845	1026.426
281.123	141.065	2	L	17	1884.813	942.910
368.155	184.581	3	S	16	1771.729	886.368
497.198	249.103	4	E	15	1684.697	842.852
626.241	313.624	5	E	14	1555.654	778.331
713.273	357.140	6	S	13	1426.611	713.809
841.331	421.169	7	Q	12	1339.579	670.293
928.363	464.685	8	S	11	1211.521	606.264
1015.395	508.201	9	S	10	1124.489	562.748
1102.427	551.717	10	S	9	1037.457	519.232
1216.470	608.739	11	N	8	950.425	475.716
1347.511	674.259	12	M	7	836.382	418.695
1462.538	731.772	13	D	6	705.341	353.174
1577.565	789.286	14	D	5	590.314	295.661
1690.649	845.828	15	I	4	475.287	238.147
1777.681	889.344	16	S	3	362.203	181.605
1905.739	953.373	17	Q	2	275.171	138.089
2033.834	1017.421	18	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=8058



b	b(+2)			y	y(+2)	
88.039	44.523	1	S	30	3239.448	1620.228
201.123	101.065	2	L	29	3152.416	1576.712
288.155	144.581	3	S	28	3039.332	1520.170
417.198	209.103	4	E	27	2952.300	1476.654
546.241	273.624	5	E	26	2823.257	1412.132
633.273	317.140	6	S	25	2694.215	1347.611
761.331	381.169	7	Q	24	2607.183	1304.095
848.363	424.685	8	S	23	2479.124	1240.066
935.395	468.201	9	S	22	2392.092	1196.550
1022.427	511.717	10	S	21	2305.060	1153.034
1136.470	568.739	11	N	20	2218.028	1109.518
1267.511	634.259	12	M	19	2103.985	1052.496
1382.538	691.772	13	D	18	1972.945	986.976
1497.565	749.286	14	D	17	1857.918	929.463
1610.649	805.828	15	I	16	1742.891	871.949
1697.681	849.344	16	S	15	1629.807	815.407
1825.739	913.373	17	Q	14	1542.775	771.891
1953.834	977.421	18	K	13	1414.716	707.862
2120.866	1060.937	19	S	12	1286.621	643.814
2233.950	1117.479	20	I	11	1119.589	560.298
2320.982	1160.995	21	S	10	1006.505	503.756
2434.066	1217.537	22	L	9	919.473	460.240
2491.088	1246.048	23	G	8	806.389	403.698
2606.115	1303.561	24	D	7	749.368	375.187
2677.152	1339.080	25	A	6	634.341	317.674
2764.184	1382.596	26	S	5	563.304	282.155
2893.227	1447.117	27	E	4	476.271	238.639
3006.311	1503.659	28	I	3	347.229	174.118
3093.343	1547.175	29	S	2	234.145	117.576
3221.438	1611.222	30	K	1	147.113	74.060

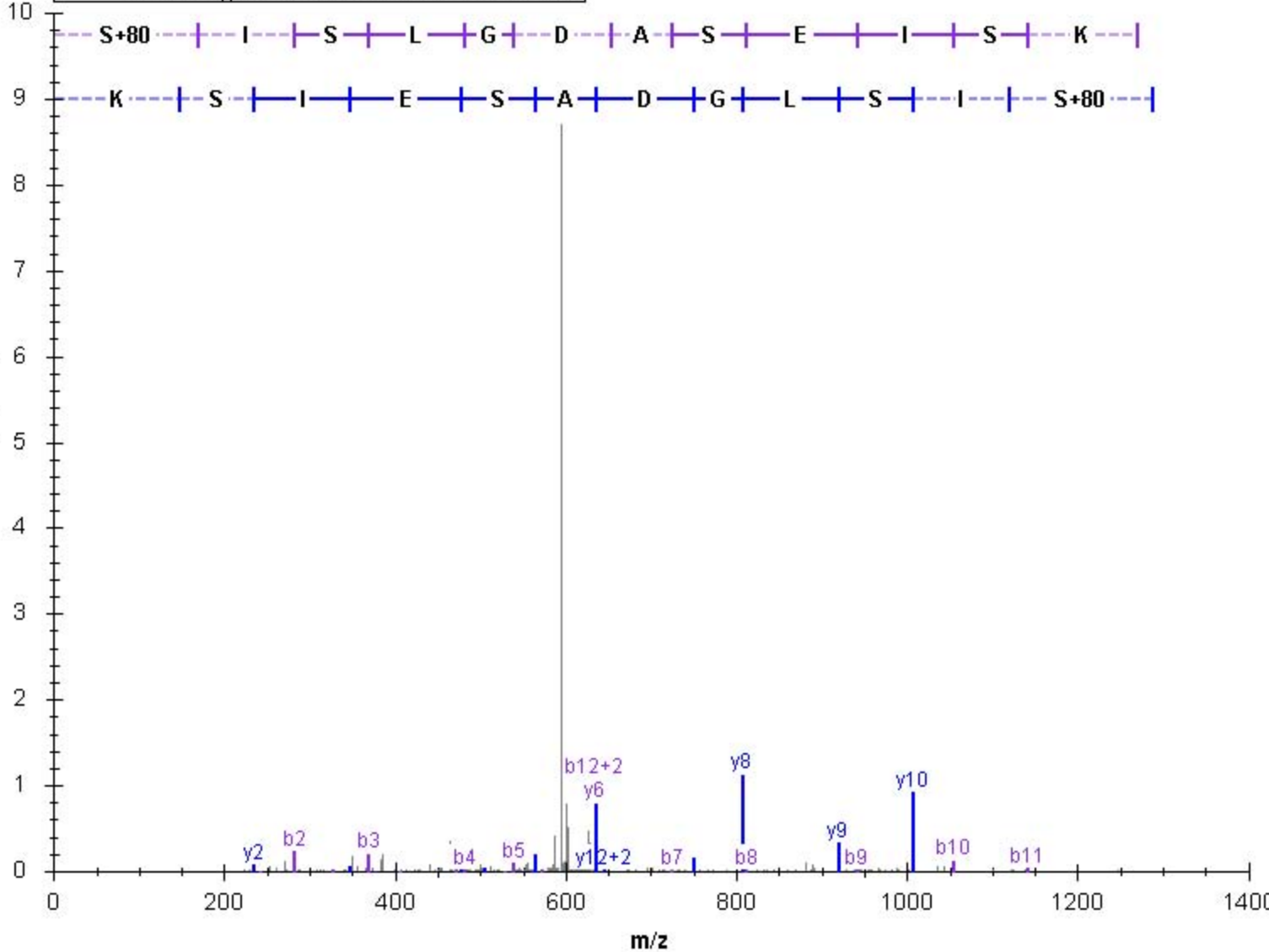
controllerType=0 controllerNumber=1 scan=10767



b	b(+2)				y	y(+2)
168.039	84.523	1	S	12	1286.621	643.814
281.123	141.065	2	I	11	1119.589	560.298
368.155	184.581	3	S	10	1006.505	503.756
481.239	241.123	4	L	9	919.473	460.240
538.261	269.634	5	G	8	806.389	403.698
653.288	327.148	6	D	7	749.368	375.187
724.325	362.666	7	A	6	634.341	317.674
811.357	406.182	8	S	5	563.304	282.155
940.400	470.703	9	E	4	476.271	238.639
1053.484	527.245	10	I	3	347.229	174.118
1140.516	570.761	11	S	2	234.145	117.576
1268.611	634.809	12	K	1	147.113	74.060

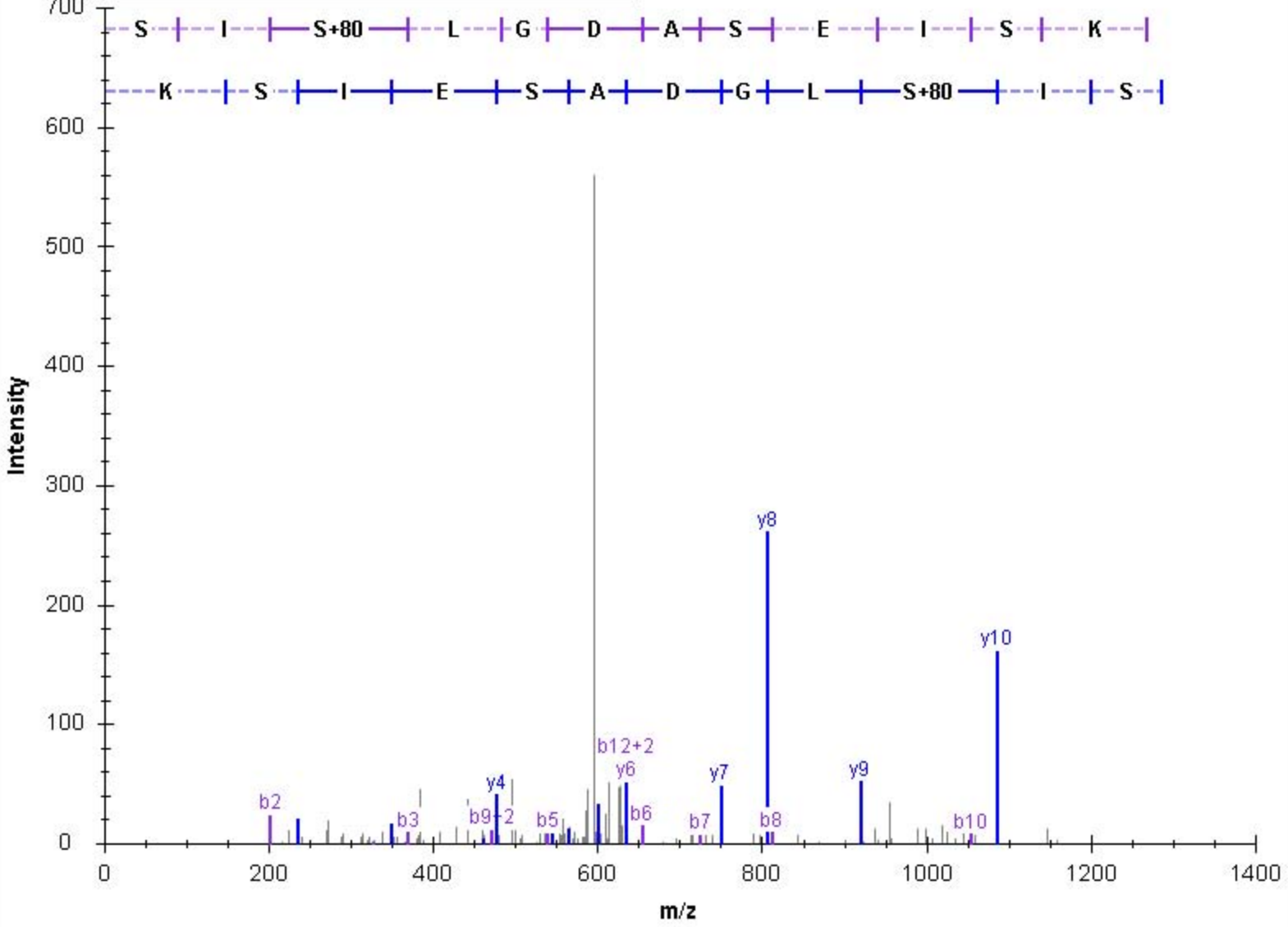
controllerType=0 controllerNumber=1 scan=8042

Intensity (10³)



b	b(+2)				y	y(+2)
88.039	44.523	1	S	12	1286.621	643.814
201.123	101.065	2	I	11	1199.589	600.298
368.155	184.581	3	S	10	1086.505	543.756
481.239	241.123	4	L	9	919.473	460.240
538.261	269.634	5	G	8	806.389	403.698
653.288	327.148	6	D	7	749.368	375.187
724.325	362.666	7	A	6	634.341	317.674
811.357	406.182	8	S	5	563.304	282.155
940.400	470.703	9	E	4	476.271	238.639
1053.484	527.245	10	I	3	347.229	174.118
1140.516	570.761	11	S	2	234.145	117.576
1268.611	634.809	12	K	1	147.113	74.060

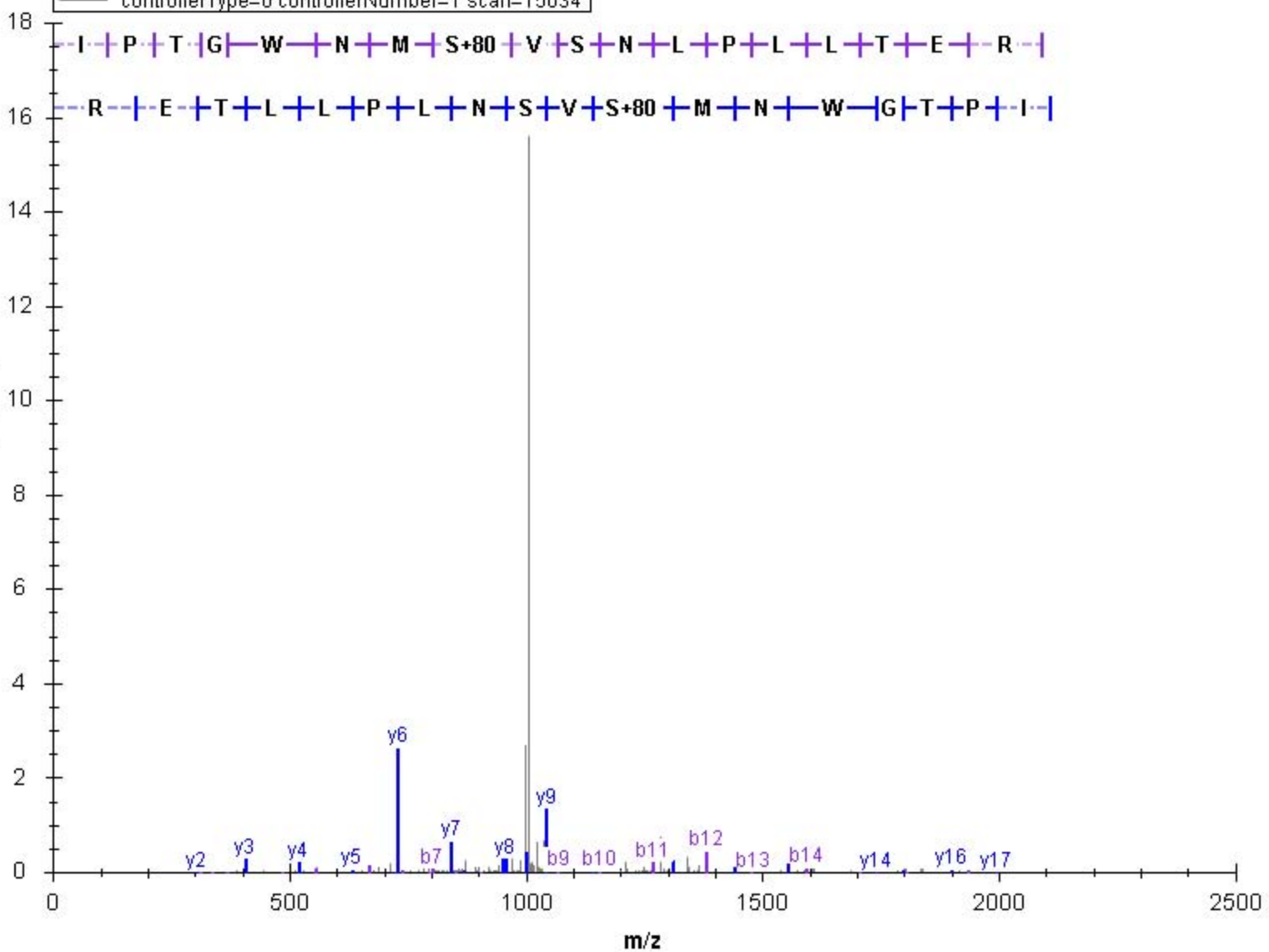
controllerType=0 controllerNumber=1 scan=10668



b	b(+2)				y	y(+2)
114.091	57.549	1	I	18	2108.058	1054.533
211.144	106.076	2	P	17	1994.974	997.991
312.192	156.600	3	T	16	1897.921	949.464
369.213	185.110	4	G	15	1796.874	898.941
555.293	278.150	5	W	14	1739.852	870.430
669.335	335.171	6	N	13	1553.773	777.390
800.376	400.692	7	M	12	1439.730	720.369
967.408	484.208	8	S	11	1308.690	654.848
1066.476	533.742	9	V	10	1141.658	571.332
1153.508	577.258	10	S	9	1042.589	521.798
1267.551	634.279	11	N	8	955.557	478.282
1380.635	690.821	12	L	7	841.514	421.261
1477.688	739.348	13	P	6	728.430	364.719
1590.772	795.890	14	L	5	631.377	316.192
1703.856	852.432	15	L	4	518.293	259.650
1804.904	902.956	16	T	3	405.209	203.108
1933.947	967.477	17	E	2	304.162	152.584
2090.048	1045.527	18	R	1	175.119	88.063

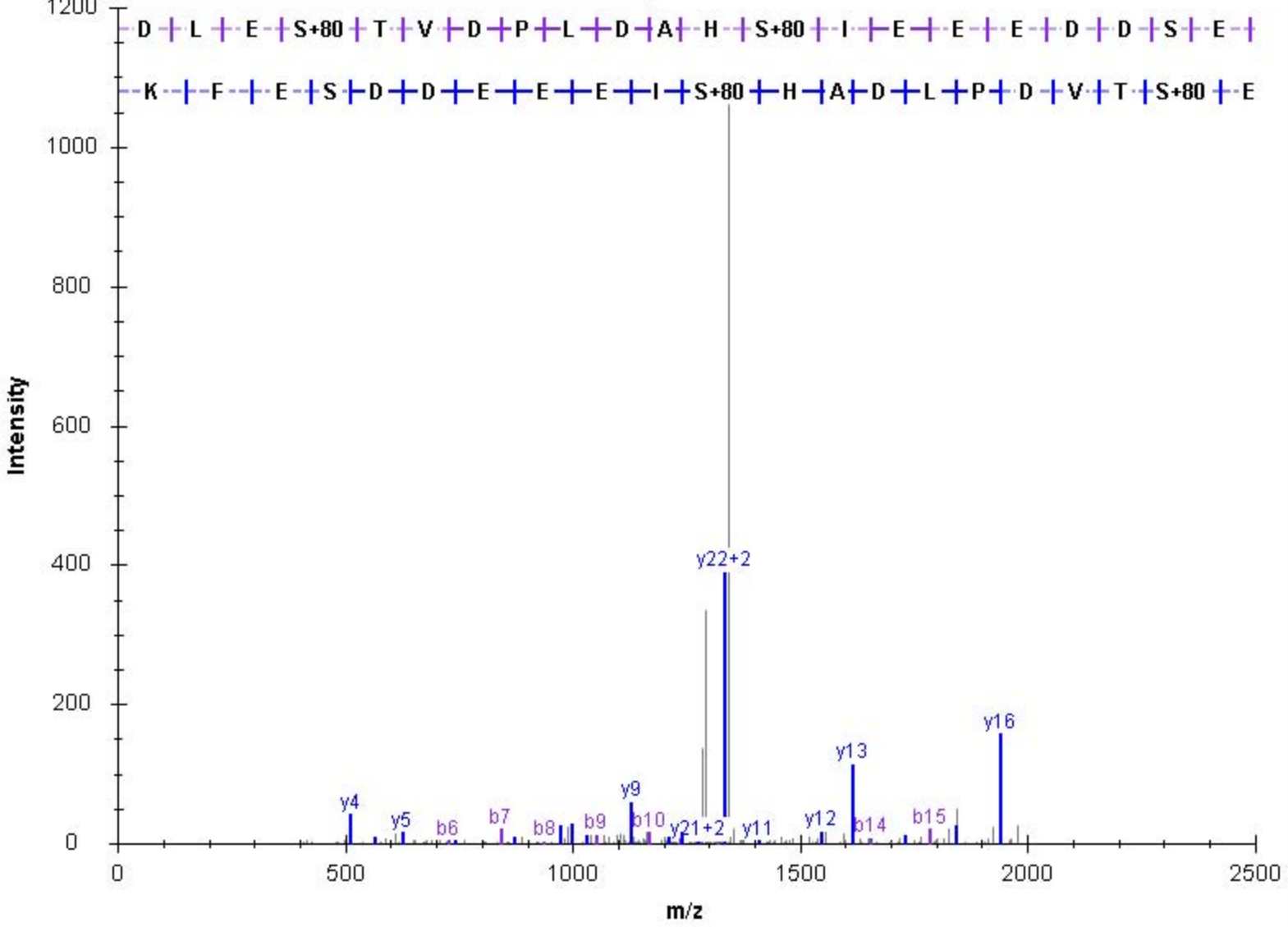
controllerType=0 controllerNumber=1 scan=15034

Intensity (10³)



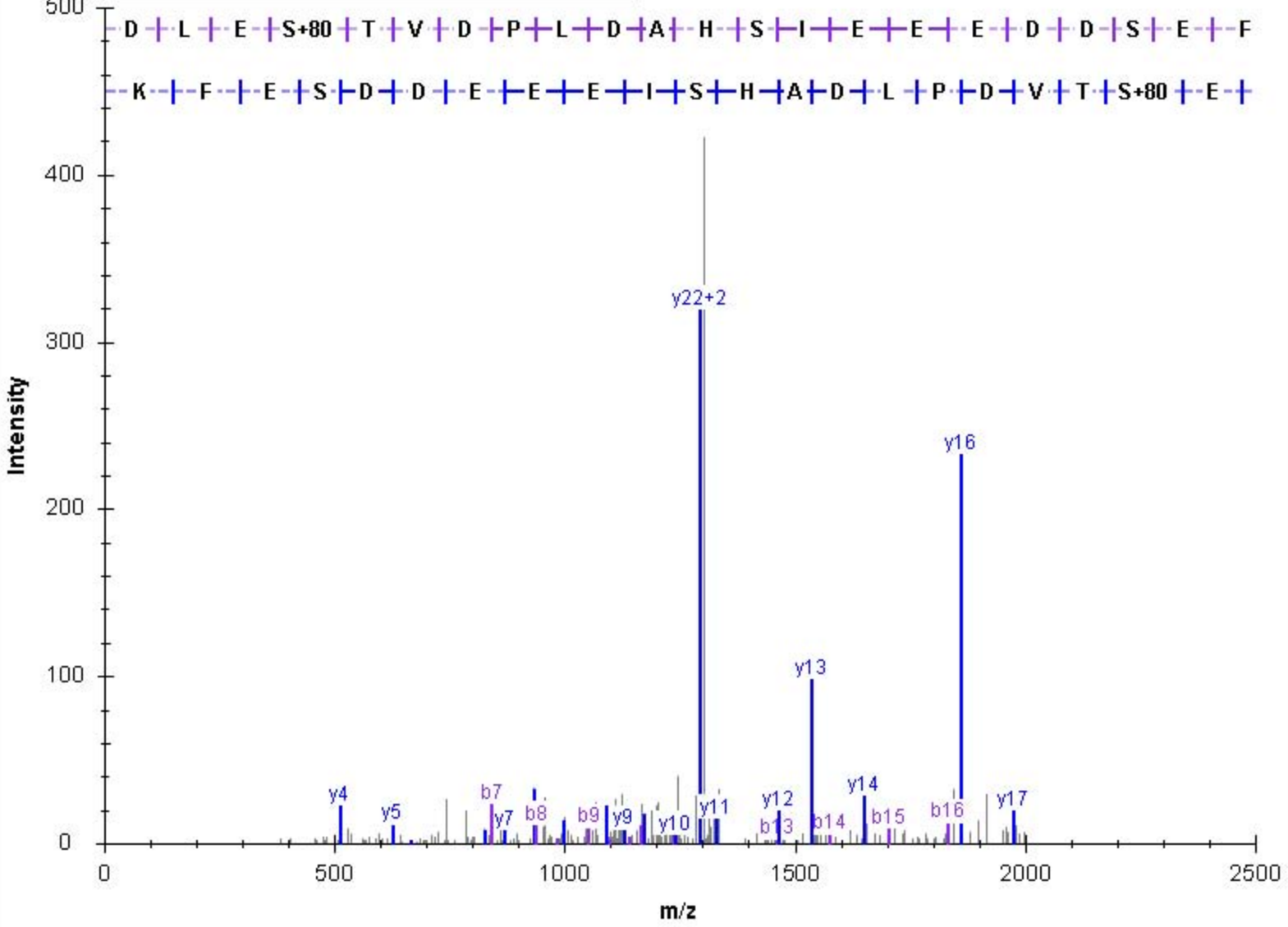
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	23	2780.142	1390.575
229.118	115.063	2	L	22	2665.115	1333.061
358.161	179.584	3	E	21	2552.031	1276.519
525.193	263.100	4	S	20	2422.988	1211.998
626.241	313.624	5	T	19	2255.956	1128.482
725.309	363.158	6	V	18	2154.909	1077.958
840.336	420.672	7	D	17	2055.840	1028.424
937.389	469.198	8	P	16	1940.813	970.910
1050.473	525.740	9	L	15	1843.761	922.384
1165.500	583.253	10	D	14	1730.677	865.842
1236.537	618.772	11	A	13	1615.650	808.328
1373.596	687.302	12	H	12	1544.613	772.810
1540.628	770.818	13	S	11	1407.554	704.280
1653.712	827.360	14	I	10	1240.522	620.764
1782.754	891.881	15	E	9	1127.438	564.222
1911.797	956.402	16	E	8	998.395	499.701
2040.840	1020.923	17	E	7	869.352	435.180
2155.867	1078.437	18	D	6	740.310	370.659
2270.893	1135.950	19	D	5	625.283	313.145
2357.926	1179.466	20	S	4	510.256	255.632
2486.968	1243.988	21	E	3	423.224	212.116
2634.037	1317.522	22	F	2	294.181	147.594
2762.131	1381.569	23	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=12562



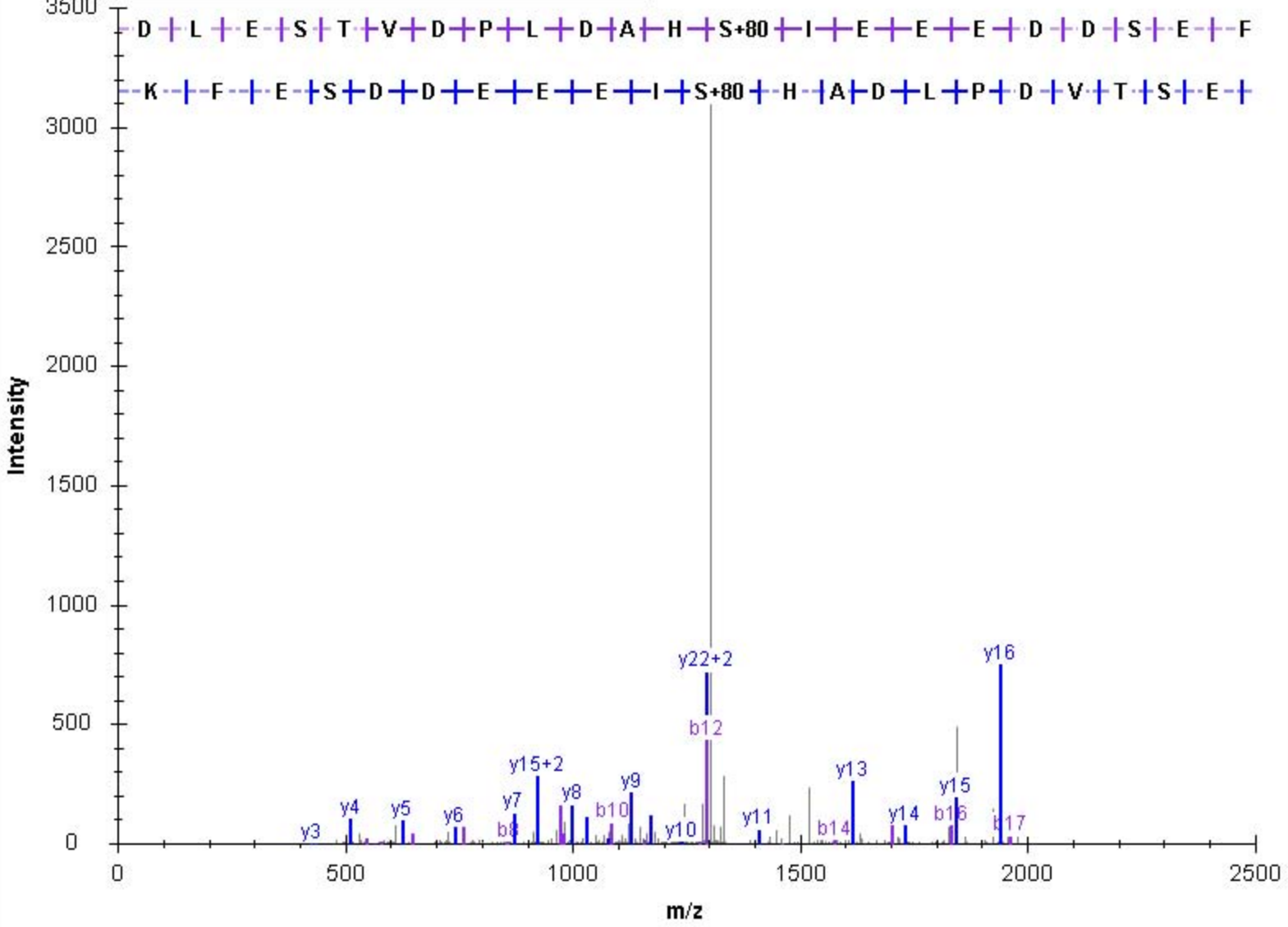
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	23	2700.142	1350.575
229.118	115.063	2	L	22	2585.115	1293.061
358.161	179.584	3	E	21	2472.031	1236.519
525.193	263.100	4	S	20	2342.988	1171.998
626.241	313.624	5	T	19	2175.956	1088.482
725.309	363.158	6	V	18	2074.909	1037.958
840.336	420.672	7	D	17	1975.840	988.424
937.389	469.198	8	P	16	1860.813	930.910
1050.473	525.740	9	L	15	1763.761	882.384
1165.500	583.253	10	D	14	1650.677	825.842
1236.537	618.772	11	A	13	1535.650	768.328
1373.596	687.302	12	H	12	1464.613	732.810
1460.628	730.818	13	S	11	1327.554	664.280
1573.712	787.360	14	I	10	1240.522	620.764
1702.754	851.881	15	E	9	1127.438	564.222
1831.797	916.402	16	E	8	998.395	499.701
1960.840	980.923	17	E	7	869.352	435.180
2075.867	1038.437	18	D	6	740.310	370.659
2190.893	1095.950	19	D	5	625.283	313.145
2277.926	1139.466	20	S	4	510.256	255.632
2406.968	1203.988	21	E	3	423.224	212.116
2554.037	1277.522	22	F	2	294.181	147.594
2682.131	1341.569	23	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=13832



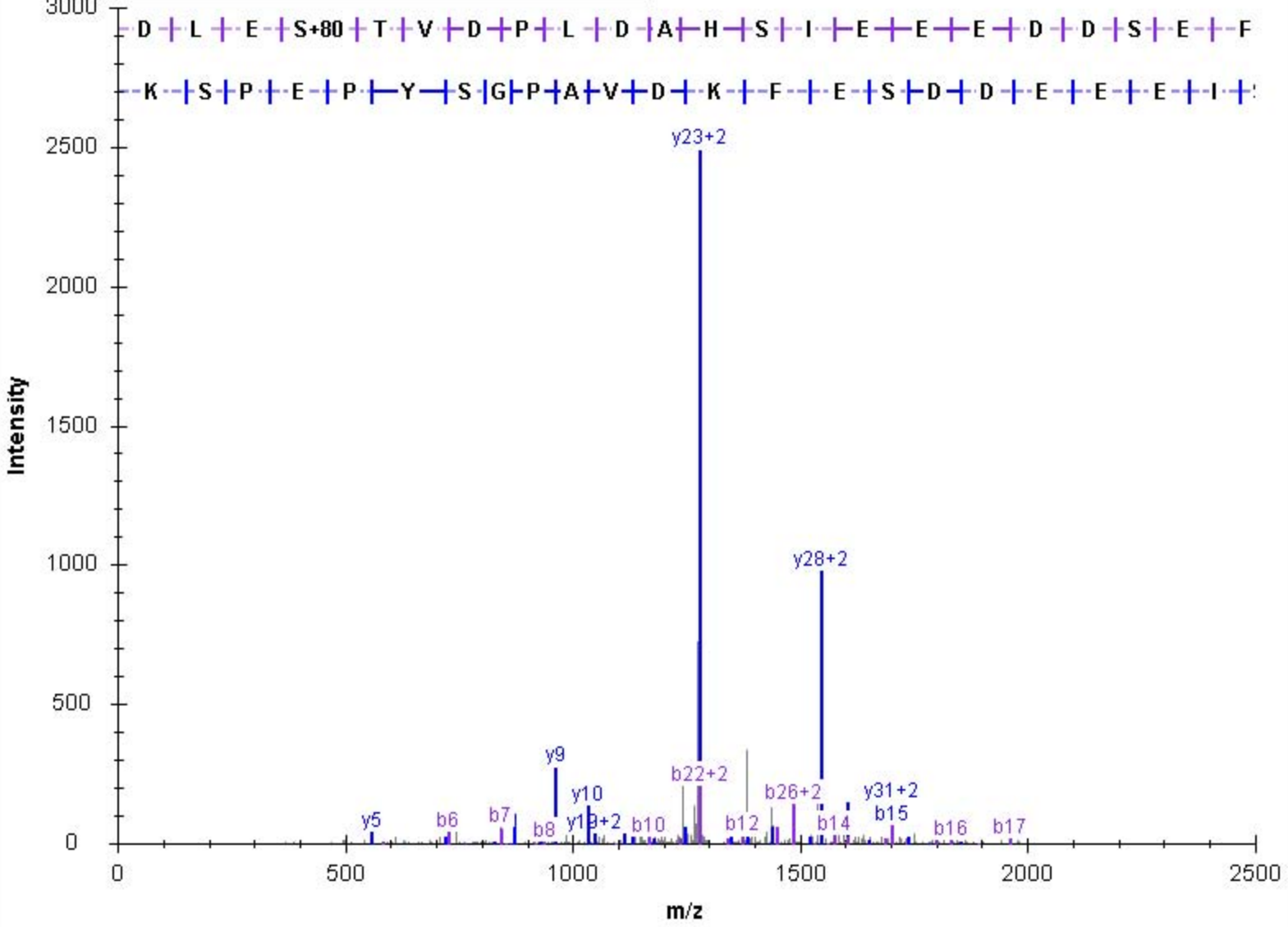
b	b(+2)				y	y(+2)
116.034	58.521	1	D	23	2700.142	1350.575
229.118	115.063	2	L	22	2585.115	1293.061
358.161	179.584	3	E	21	2472.031	1236.519
445.193	223.100	4	S	20	2342.988	1171.998
546.241	273.624	5	T	19	2255.956	1128.482
645.309	323.158	6	V	18	2154.909	1077.958
760.336	380.672	7	D	17	2055.840	1028.424
857.389	429.198	8	P	16	1940.813	970.910
970.473	485.740	9	L	15	1843.761	922.384
1085.500	543.253	10	D	14	1730.677	865.842
1156.537	578.772	11	A	13	1615.650	808.328
1293.596	647.302	12	H	12	1544.613	772.810
1460.628	730.818	13	S	11	1407.554	704.280
1573.712	787.360	14	I	10	1240.522	620.764
1702.754	851.881	15	E	9	1127.438	564.222
1831.797	916.402	16	E	8	998.395	499.701
1960.840	980.923	17	E	7	869.352	435.180
2075.867	1038.437	18	D	6	740.310	370.659
2190.893	1095.950	19	D	5	625.283	313.145
2277.926	1139.466	20	S	4	510.256	255.632
2406.968	1203.988	21	E	3	423.224	212.116
2554.037	1277.522	22	F	2	294.181	147.594
2682.131	1341.569	23	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=11741



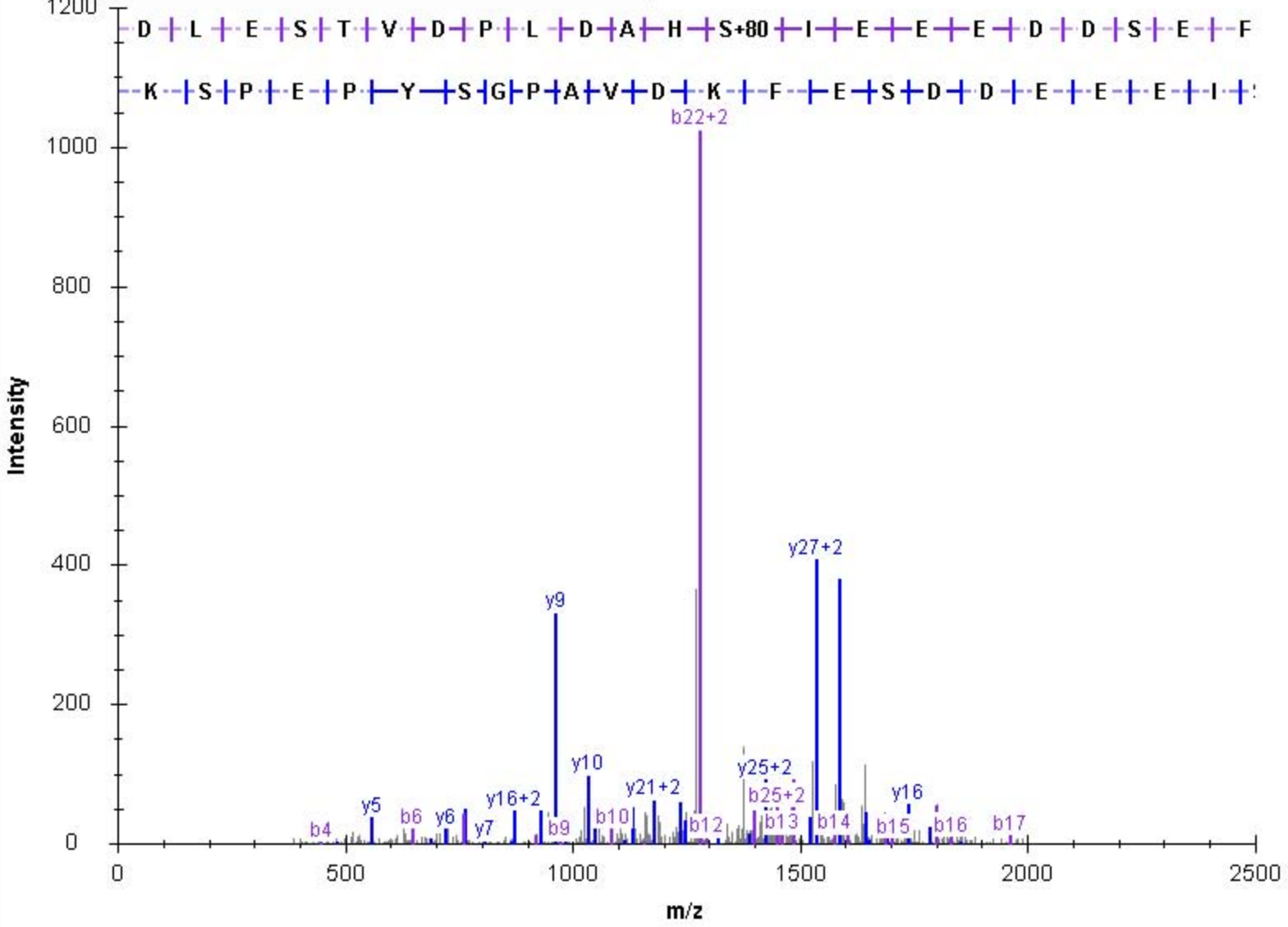
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	35	3927.719	1964.363
229.118	115.063	2	L	34	3812.692	1906.850
358.161	179.584	3	E	33	3699.608	1850.308
525.193	263.100	4	S	32	3570.566	1785.786
626.241	313.624	5	T	31	3403.534	1702.270
725.309	363.158	6	V	30	3302.486	1651.747
840.336	420.672	7	D	29	3203.418	1602.212
937.389	469.198	8	P	28	3088.391	1544.699
1050.473	525.740	9	L	27	2991.338	1496.173
1165.500	583.253	10	D	26	2878.254	1439.631
1236.537	618.772	11	A	25	2763.227	1382.117
1373.596	687.302	12	H	24	2692.190	1346.598
1460.628	730.818	13	S	23	2555.131	1278.069
1573.712	787.360	14	I	22	2468.099	1234.553
1702.754	851.881	15	E	21	2355.015	1178.011
1831.797	916.402	16	E	20	2225.972	1113.490
1960.840	980.923	17	E	19	2096.929	1048.968
2075.867	1038.437	18	D	18	1967.887	984.447
2190.893	1095.950	19	D	17	1852.860	926.934
2277.926	1139.466	20	S	16	1737.833	869.420
2406.968	1203.988	21	E	15	1650.801	825.904
2554.037	1277.522	22	F	14	1521.758	761.383
2682.131	1341.569	23	K	13	1374.690	687.849
2797.158	1399.083	24	D	12	1246.595	623.801
2896.227	1448.617	25	V	11	1131.568	566.288
2967.264	1484.136	26	A	10	1032.500	516.753
3064.317	1532.662	27	P	9	961.463	481.235
3121.338	1561.173	28	G	8	864.410	432.709
3208.370	1604.689	29	S	7	807.388	404.198
3371.434	1686.220	30	Y	6	720.356	360.682
3468.486	1734.747	31	P	5	557.293	279.150
3597.529	1799.268	32	E	4	460.240	230.624

controllerType=0 controllerNumber=1 scan=10728



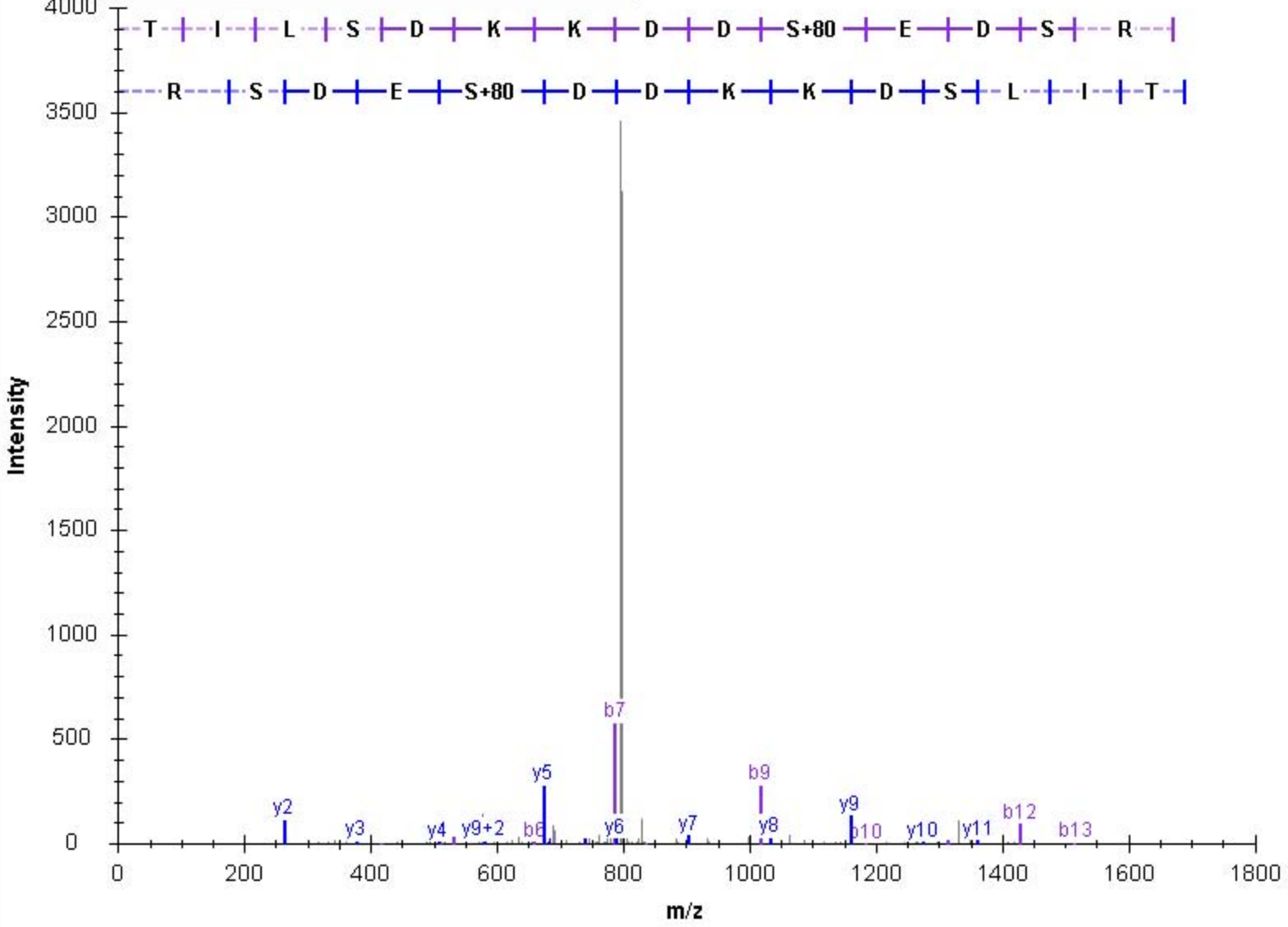
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	35	3927.719	1964.363
229.118	115.063	2	L	34	3812.692	1906.850
358.161	179.584	3	E	33	3699.608	1850.308
445.193	223.100	4	S	32	3570.566	1785.786
546.241	273.624	5	T	31	3483.534	1742.270
645.309	323.158	6	V	30	3382.486	1691.747
760.336	380.672	7	D	29	3283.418	1642.212
857.389	429.198	8	P	28	3168.391	1584.699
970.473	485.740	9	L	27	3071.338	1536.173
1085.500	543.253	10	D	26	2958.254	1479.631
1156.537	578.772	11	A	25	2843.227	1422.117
1293.596	647.302	12	H	24	2772.190	1386.598
1460.628	730.818	13	S	23	2635.131	1318.069
1573.712	787.360	14	I	22	2468.099	1234.553
1702.754	851.881	15	E	21	2355.015	1178.011
1831.797	916.402	16	E	20	2225.972	1113.490
1960.840	980.923	17	E	19	2096.929	1048.968
2075.867	1038.437	18	D	18	1967.887	984.447
2190.893	1095.950	19	D	17	1852.860	926.934
2277.926	1139.466	20	S	16	1737.833	869.420
2406.968	1203.988	21	E	15	1650.801	825.904
2554.037	1277.522	22	F	14	1521.758	761.383
2682.131	1341.569	23	K	13	1374.690	687.849
2797.158	1399.083	24	D	12	1246.595	623.801
2896.227	1448.617	25	V	11	1131.568	566.288
2967.264	1484.136	26	A	10	1032.500	516.753
3064.317	1532.662	27	P	9	961.463	481.235
3121.338	1561.173	28	G	8	864.410	432.709
3208.370	1604.689	29	S	7	807.388	404.198
3371.434	1686.220	30	Y	6	720.356	360.682
3468.486	1734.747	31	P	5	557.293	279.150
3597.529	1799.268	32	E	4	460.240	230.624

controllerType=0 controllerNumber=1 scan=13475



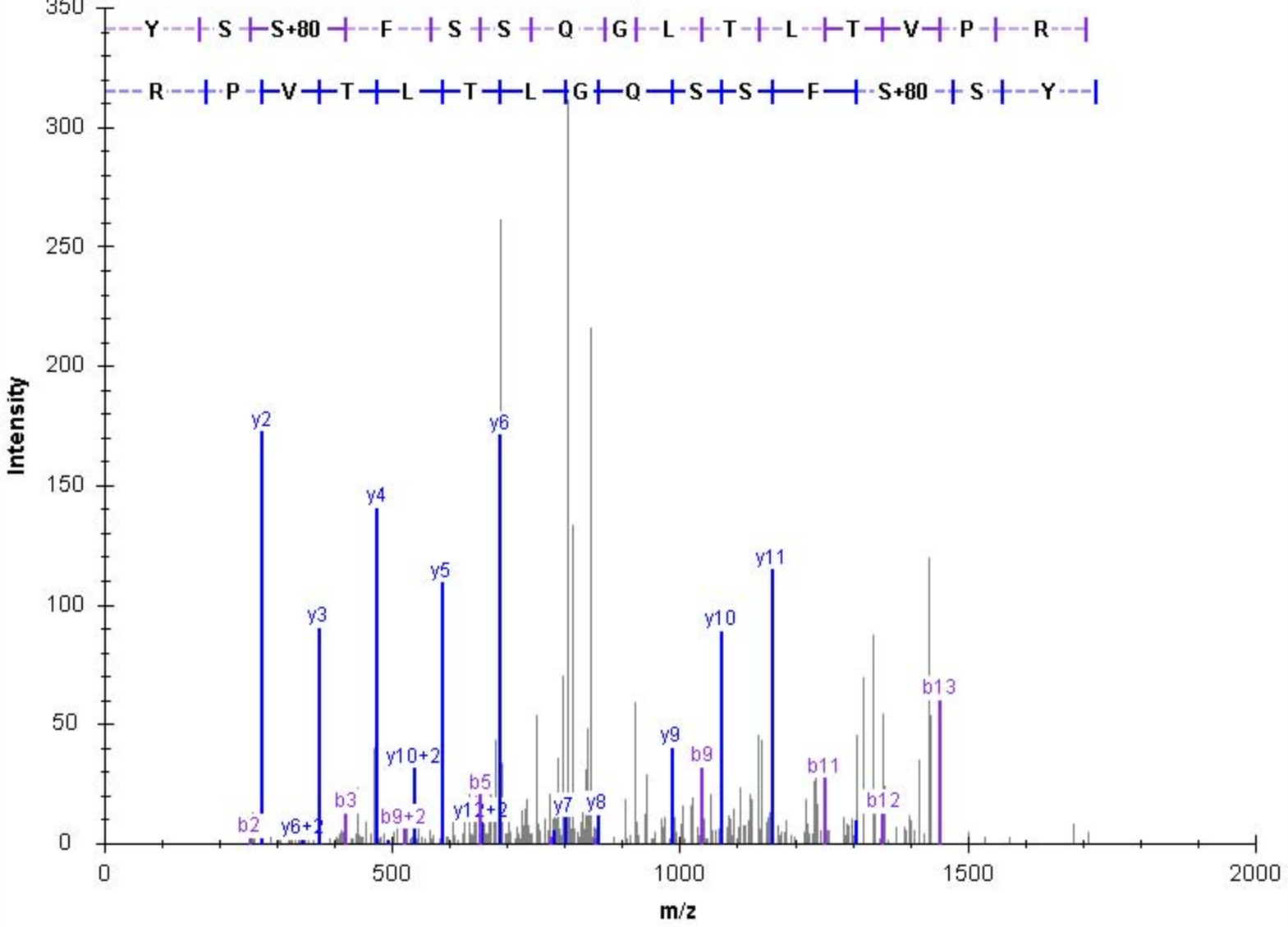
b	b(+2)				y	y(+2)
102.055	51.531	1	T	14	1688.771	844.889
215.139	108.073	2	I	13	1587.723	794.365
328.223	164.615	3	L	12	1474.639	737.823
415.255	208.131	4	S	11	1361.555	681.281
530.282	265.645	5	D	10	1274.523	637.765
658.377	329.692	6	K	9	1159.496	580.252
786.472	393.740	7	K	8	1031.401	516.204
901.499	451.253	8	D	7	903.306	452.157
1016.526	508.767	9	D	6	788.279	394.643
1183.558	592.283	10	S	5	673.253	337.130
1312.600	656.804	11	E	4	506.221	253.614
1427.627	714.317	12	D	3	377.178	189.093
1514.659	757.833	13	S	2	262.151	131.579
1670.761	835.884	14	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=8308



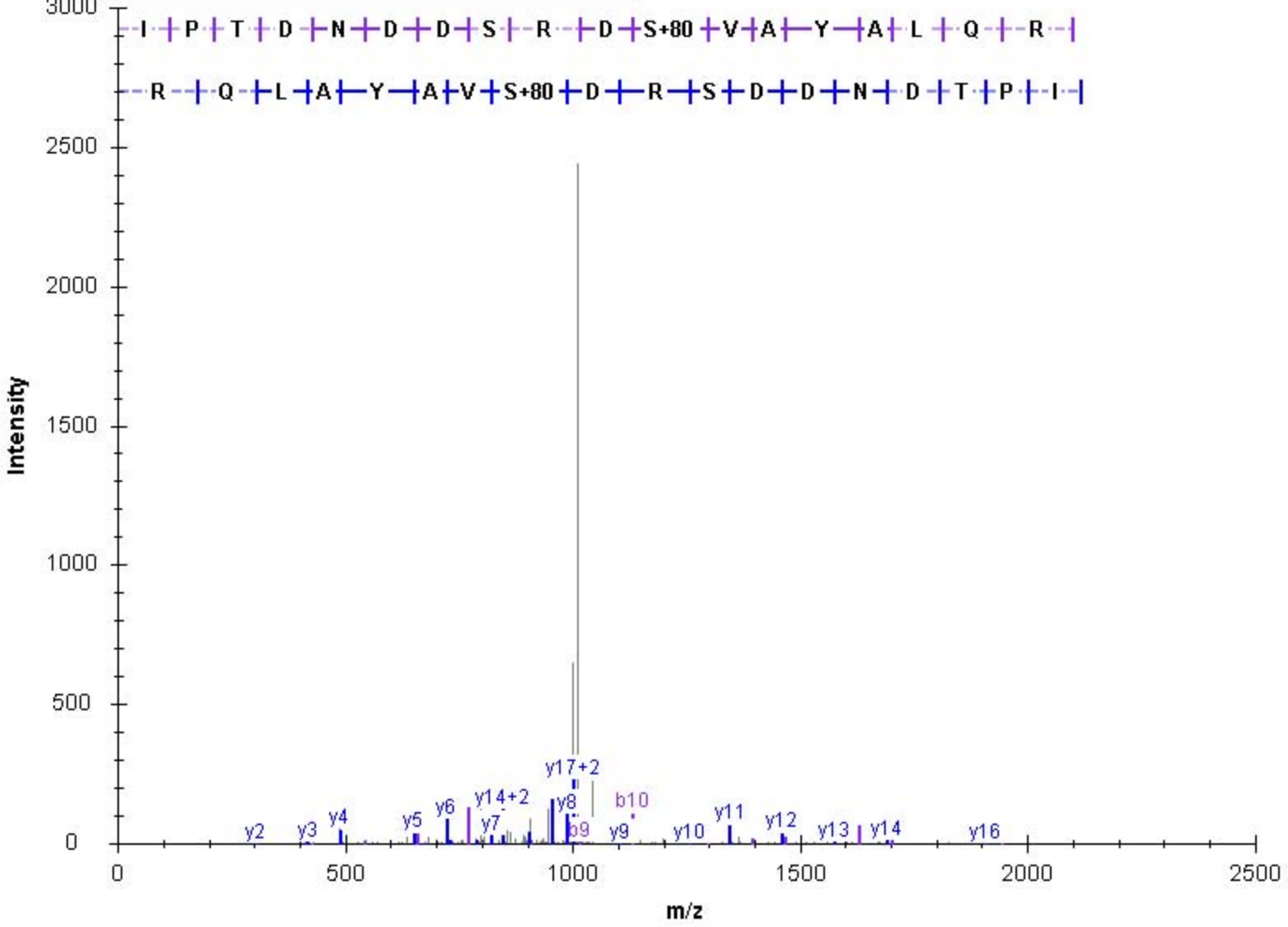
b	b(+2)				y	y(+2)
164.071	82.539	1	Y	15	1722.844	861.925
251.103	126.055	2	S	14	1559.780	780.394
418.135	209.571	3	S	13	1472.748	736.878
565.203	283.105	4	F	12	1305.716	653.362
652.235	326.621	5	S	11	1158.648	579.827
739.267	370.137	6	S	10	1071.616	536.311
867.326	434.166	7	Q	9	984.584	492.795
924.347	462.677	8	G	8	856.525	428.766
1037.431	519.219	9	L	7	799.504	400.255
1138.479	569.743	10	T	6	686.420	343.713
1251.563	626.285	11	L	5	585.372	293.190
1352.611	676.809	12	T	4	472.288	236.648
1451.679	726.343	13	V	3	371.240	186.124
1548.732	774.870	14	P	2	272.172	136.589
1704.833	852.920	15	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=11886

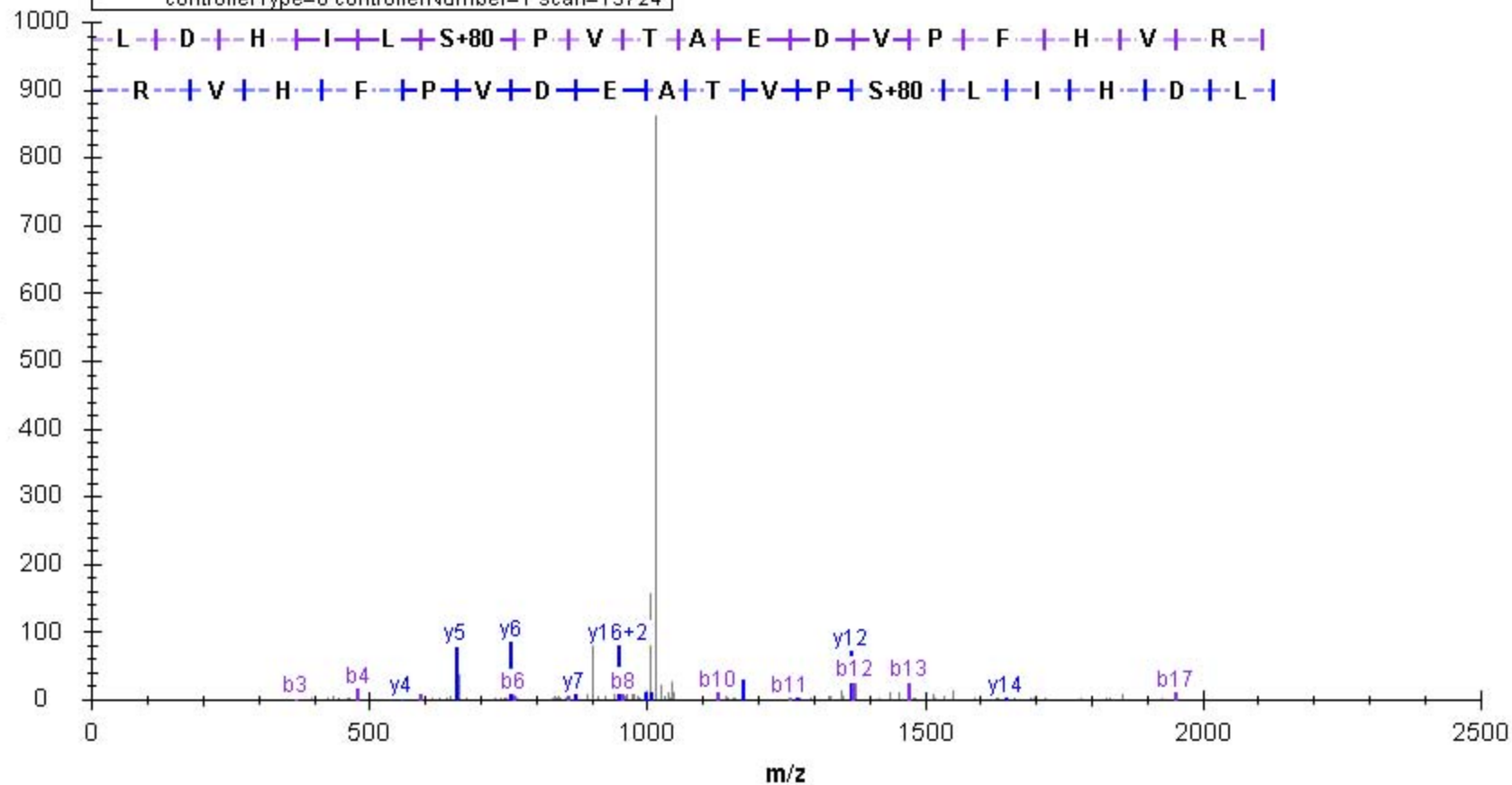


b	b(+2)				y	y(+2)
114.091	57.549	1	I	18	2115.968	1058.488
211.144	106.076	2	P	17	2002.884	1001.946
312.192	156.600	3	T	16	1905.831	953.419
427.219	214.113	4	D	15	1804.783	902.895
541.262	271.134	5	N	14	1689.756	845.382
656.289	328.648	6	D	13	1575.714	788.360
771.316	386.161	7	D	12	1460.687	730.847
858.348	429.677	8	S	11	1345.660	673.333
1014.449	507.728	9	R	10	1258.628	629.817
1129.476	565.241	10	D	9	1102.527	551.767
1296.508	648.757	11	S	8	987.500	494.253
1395.576	698.292	12	V	7	820.468	410.737
1466.613	733.810	13	A	6	721.399	361.203
1629.677	815.342	14	Y	5	650.362	325.685
1700.714	850.860	15	A	4	487.299	244.153
1813.798	907.402	16	L	3	416.262	208.634
1941.856	971.432	17	Q	2	303.178	152.092
2097.957	1049.482	18	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=2973

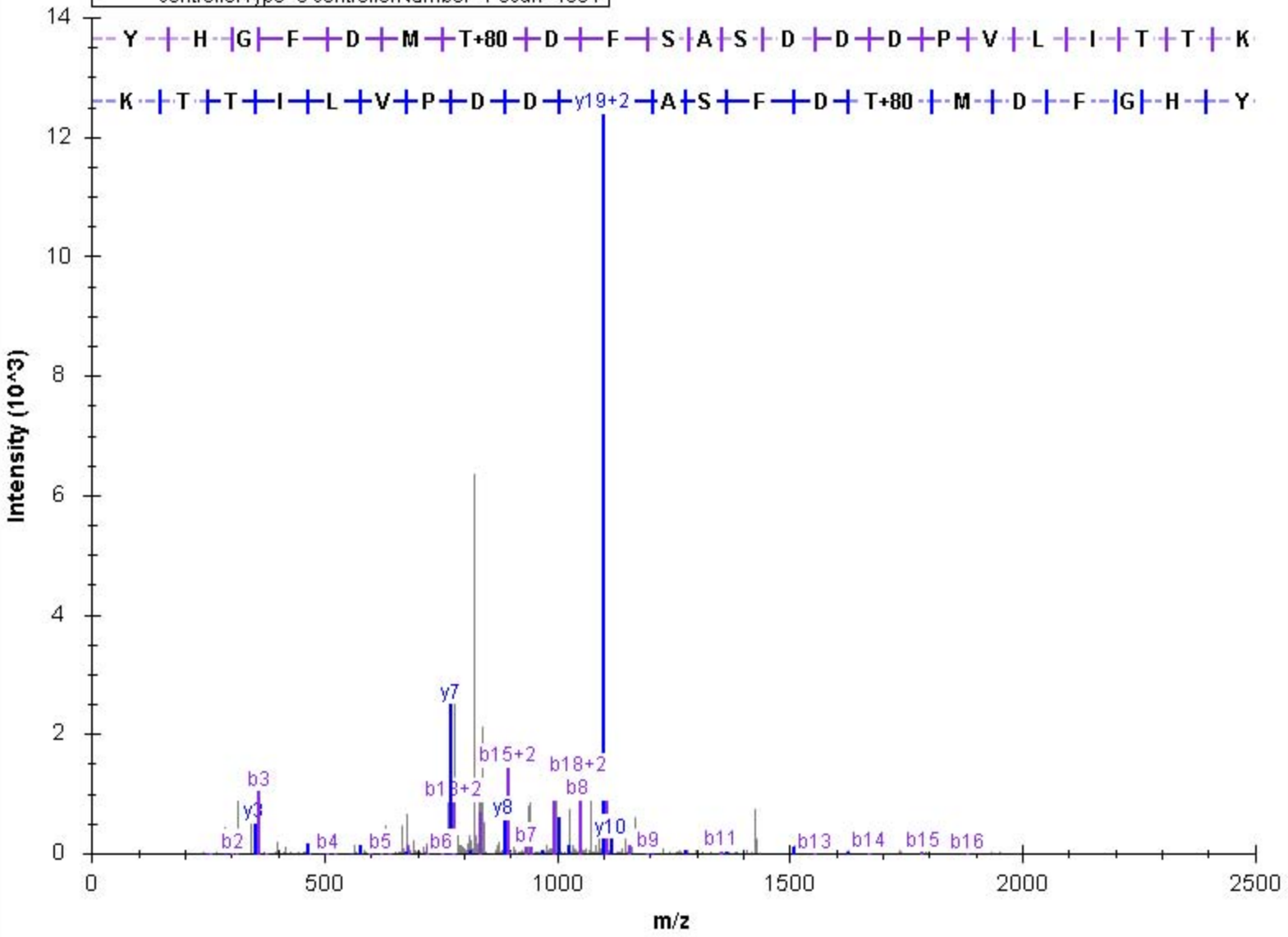


controllerType=0 controllerNumber=1 scan=13724



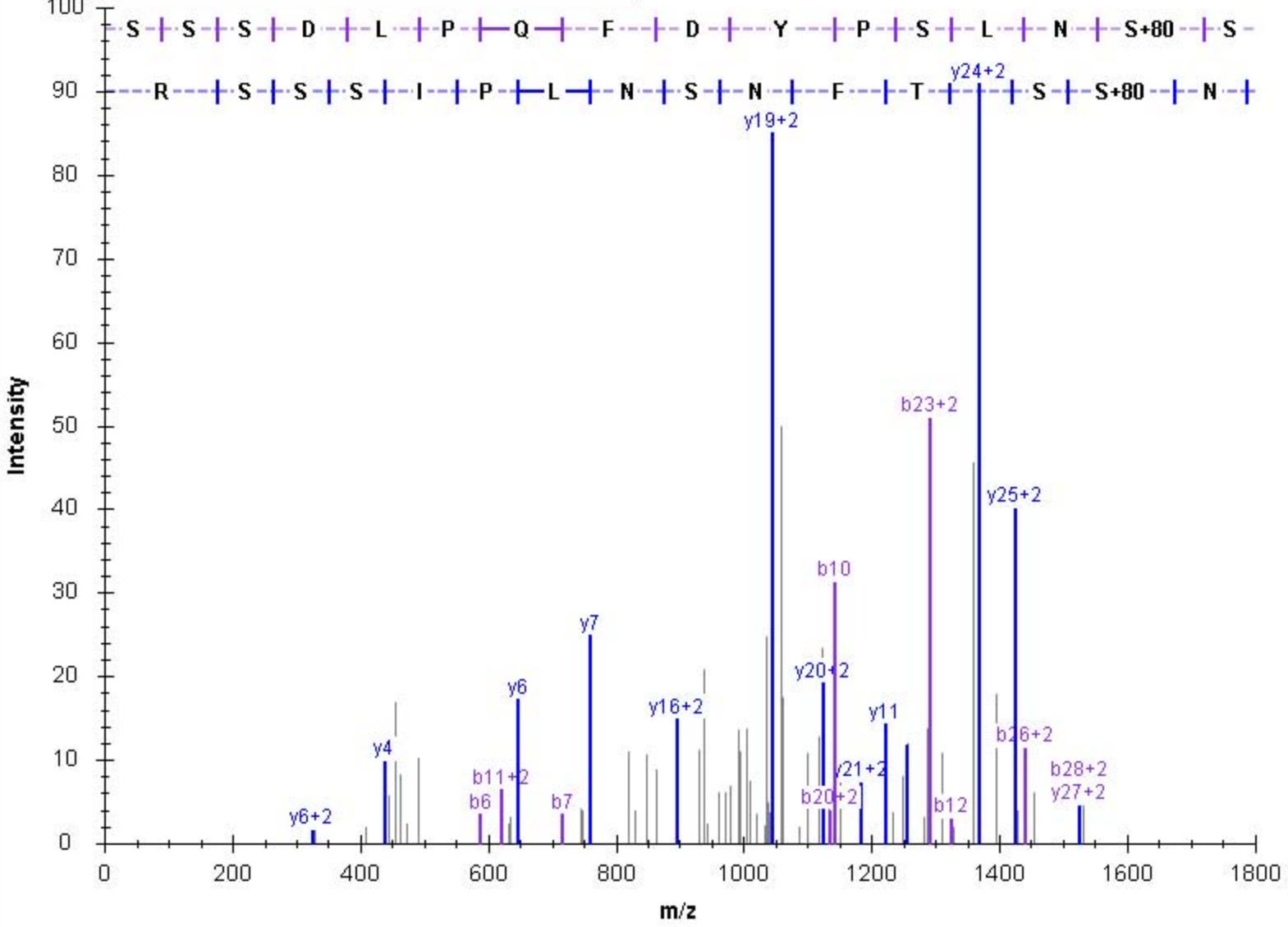
b	b(+2)				y	y(+2)
164.071	82.539	1	Y	22	2555.102	1278.055
301.130	151.068	2	H	21	2392.039	1196.523
358.151	179.579	3	G	20	2254.980	1127.994
505.219	253.113	4	F	19	2197.958	1099.483
620.246	310.627	5	D	18	2050.890	1025.949
751.287	376.147	6	M	17	1935.863	968.435
932.335	466.671	7	T	16	1804.823	902.915
1047.361	524.184	8	D	15	1623.775	812.391
1194.430	597.719	9	F	14	1508.748	754.878
1281.462	641.235	10	S	13	1361.679	681.343
1352.499	676.753	11	A	12	1274.647	637.827
1439.531	720.269	12	S	11	1203.610	602.309
1554.558	777.783	13	D	10	1116.578	558.793
1669.585	835.296	14	D	9	1001.551	501.279
1784.612	892.810	15	D	8	886.524	443.766
1881.665	941.336	16	P	7	771.497	386.252
1980.733	990.870	17	V	6	674.445	337.726
2093.817	1047.412	18	L	5	575.376	288.192
2206.901	1103.954	19	I	4	462.292	231.650
2307.949	1154.478	20	T	3	349.208	175.108
2408.997	1205.002	21	T	2	248.160	124.584
2537.091	1269.049	22	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=4964



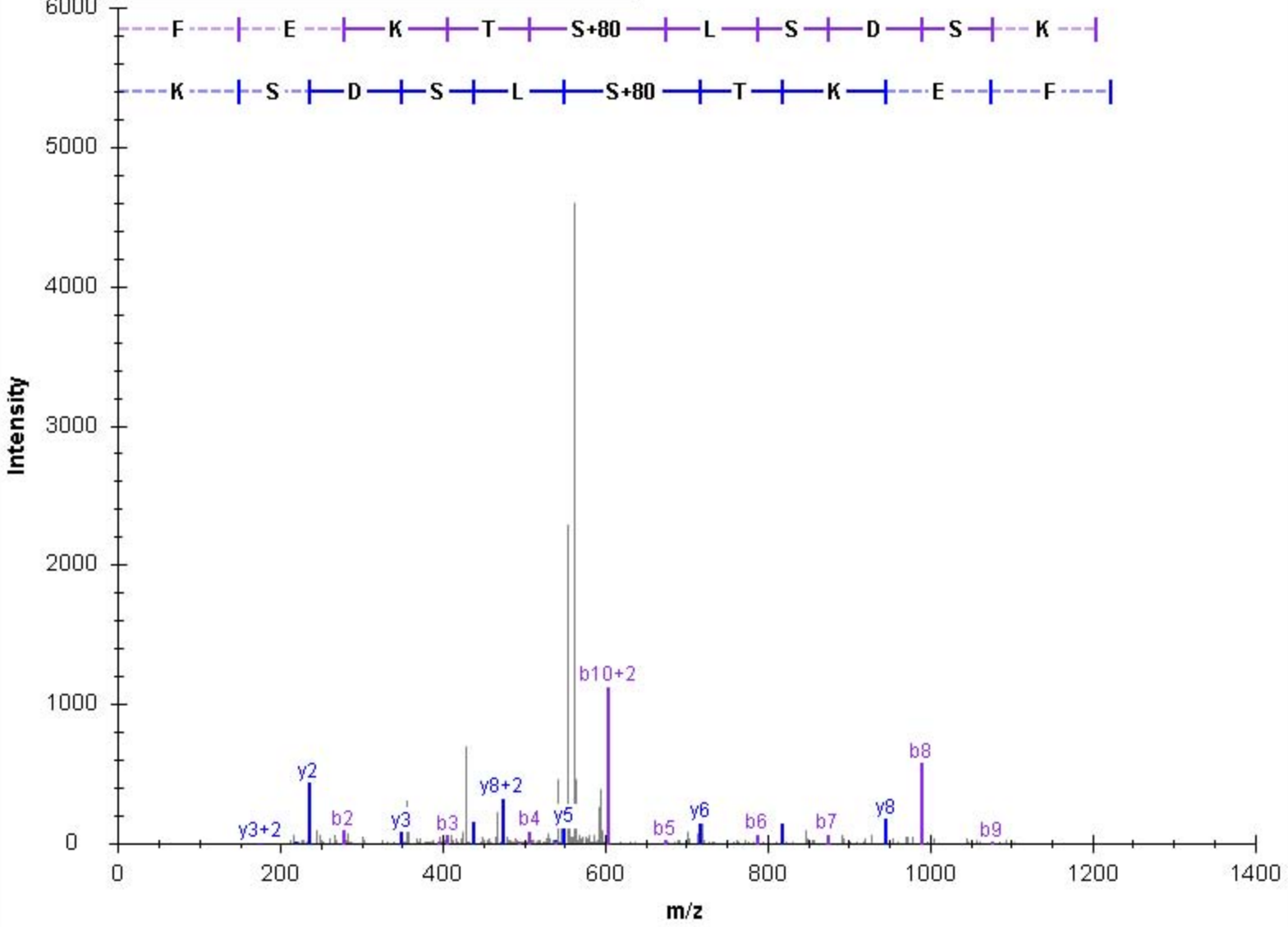
b	b(+2)			y	y(+2)	
88.039	44.523	1	S	29	3224.476	1612.741
175.071	88.039	2	S	28	3137.444	1569.225
262.103	131.555	3	S	27	3050.412	1525.709
377.130	189.069	4	D	26	2963.380	1482.193
490.214	245.611	5	L	25	2848.353	1424.680
587.267	294.137	6	P	24	2735.269	1368.138
715.326	358.166	7	Q	23	2638.216	1319.612
862.394	431.701	8	F	22	2510.157	1255.582
977.421	489.214	9	D	21	2363.089	1182.048
1140.484	570.746	10	Y	20	2248.062	1124.535
1237.537	619.272	11	P	19	2084.999	1043.003
1324.569	662.788	12	S	18	1987.946	994.477
1437.653	719.330	13	L	17	1900.914	950.960
1551.696	776.352	14	N	16	1787.830	894.418
1718.728	859.868	15	S	15	1673.787	837.397
1805.760	903.384	16	S	14	1506.755	753.881
1902.813	951.910	17	P	13	1419.723	710.365
2003.861	1002.434	18	T	12	1322.670	661.839
2150.929	1075.968	19	F	11	1221.622	611.315
2264.972	1132.990	20	N	10	1074.554	537.781
2352.004	1176.506	21	S	9	960.511	480.759
2466.047	1233.527	22	N	8	873.479	437.243
2579.131	1290.069	23	L	7	759.436	380.222
2676.184	1338.596	24	P	6	646.352	323.680
2789.268	1395.138	25	I	5	549.299	275.153
2876.300	1438.654	26	S	4	436.215	218.611
2963.332	1482.170	27	S	3	349.183	175.095
3050.364	1525.686	28	S	2	262.151	131.579
3206.465	1603.736	29	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=13745



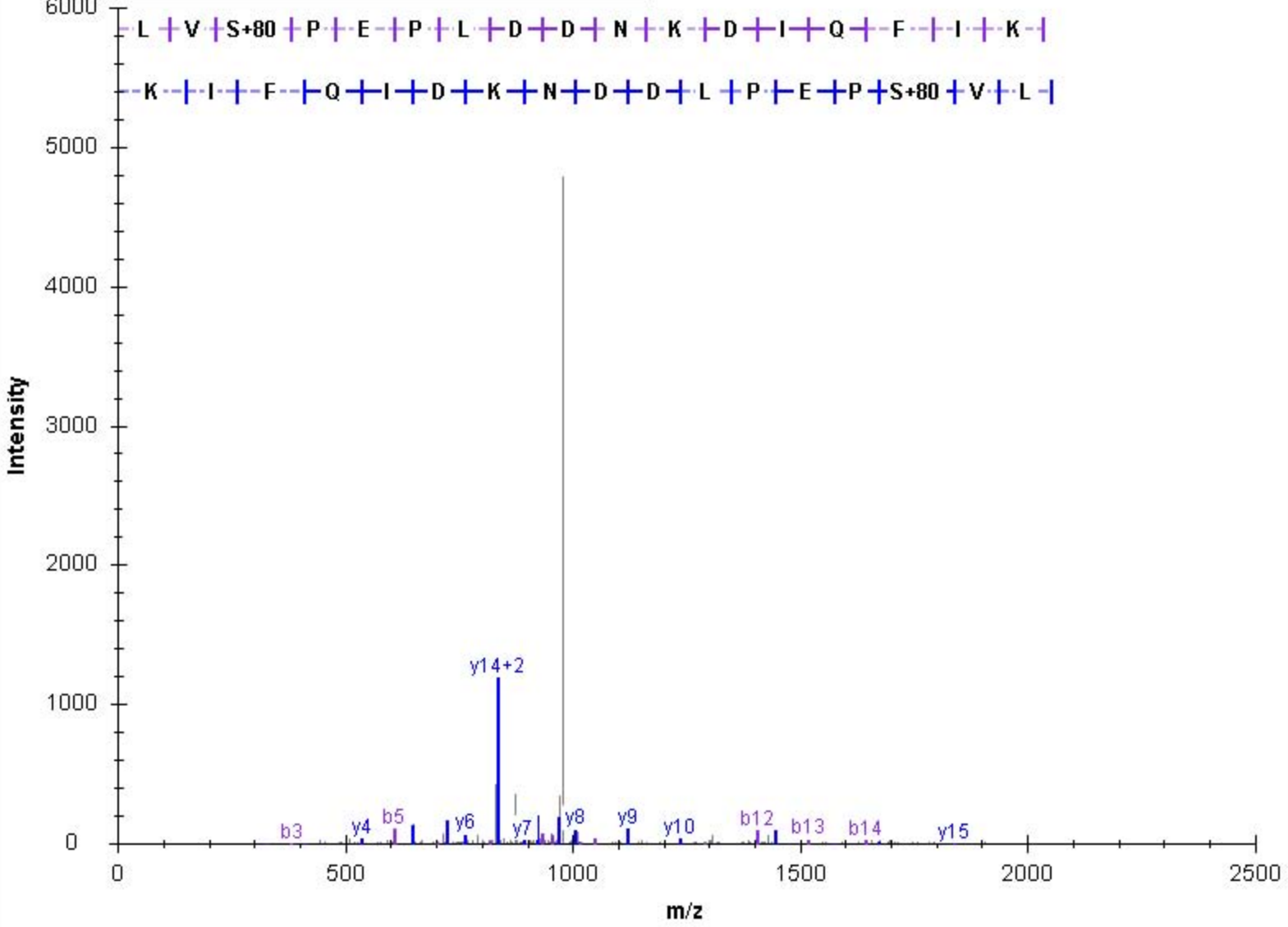
b	b(+2)				y	y(+2)
148.076	74.541	1	F	10	1221.574	611.290
277.118	139.063	2	E	9	1074.505	537.756
405.213	203.110	3	K	8	945.463	473.235
506.261	253.634	4	T	7	817.368	409.187
673.293	337.150	5	S	6	716.320	358.664
786.377	393.692	6	L	5	549.288	275.148
873.409	437.208	7	S	4	436.204	218.606
988.436	494.722	8	D	3	349.172	175.090
1075.468	538.238	9	S	2	234.145	117.576
1203.563	602.285	10	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7802



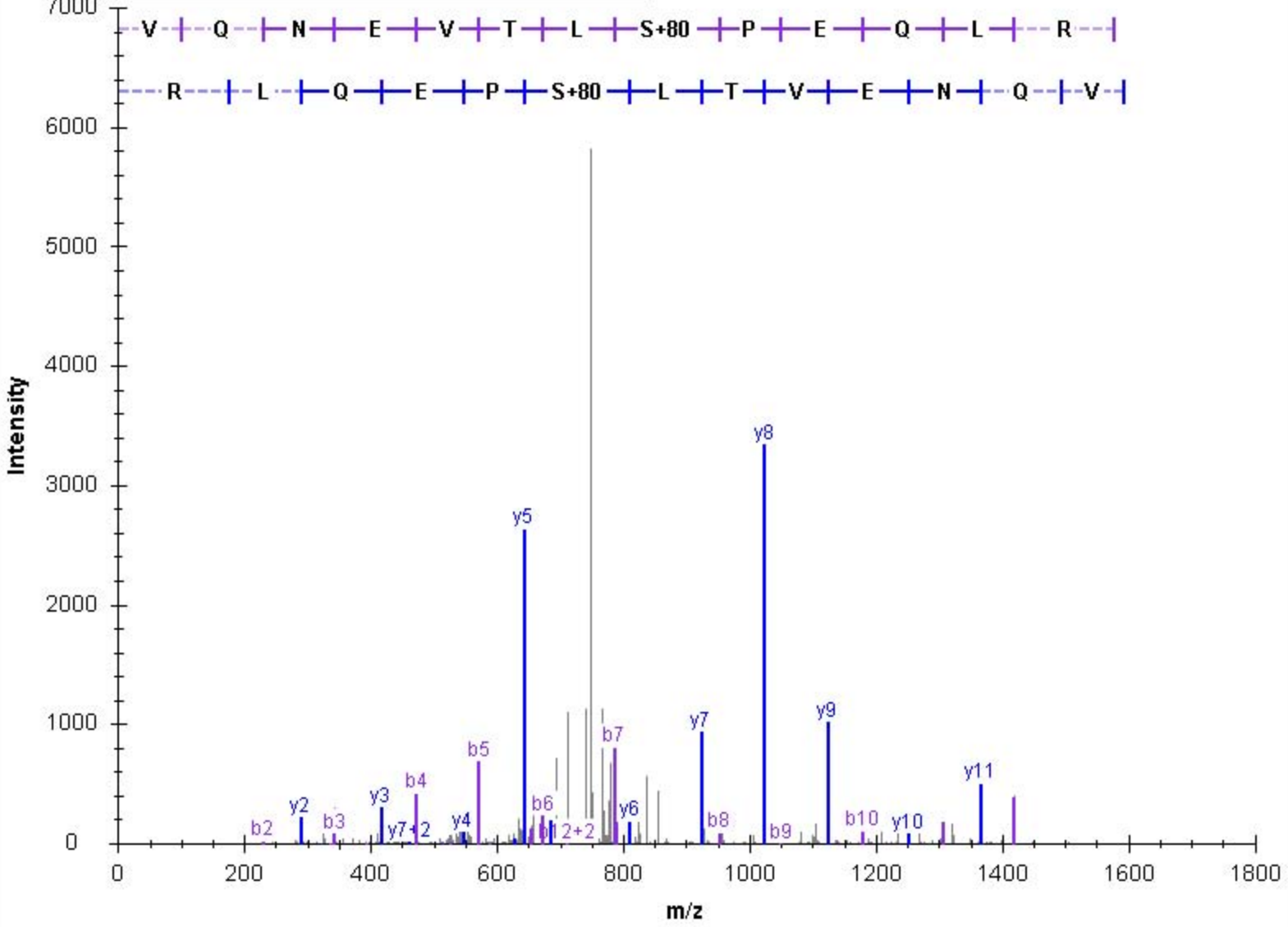
b	b(+2)			y	y(+2)	
114.091	57.549	1	L	17	2051.043	1026.025
213.160	107.084	2	V	16	1937.959	969.483
380.192	190.600	3	S	15	1838.891	919.949
477.245	239.126	4	P	14	1671.859	836.433
606.287	303.647	5	E	13	1574.806	787.907
703.340	352.174	6	P	12	1445.763	723.385
816.424	408.716	7	L	11	1348.711	674.859
931.451	466.229	8	D	10	1235.627	618.317
1046.478	523.743	9	D	9	1120.600	560.803
1160.521	580.764	10	N	8	1005.573	503.290
1288.616	644.812	11	K	7	891.530	446.269
1403.643	702.325	12	D	6	763.435	382.221
1516.727	758.867	13	I	5	648.408	324.708
1644.785	822.896	14	Q	4	535.324	268.166
1791.854	896.431	15	F	3	407.265	204.136
1904.938	952.973	16	I	2	260.197	130.602
2033.033	1017.020	17	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=12002



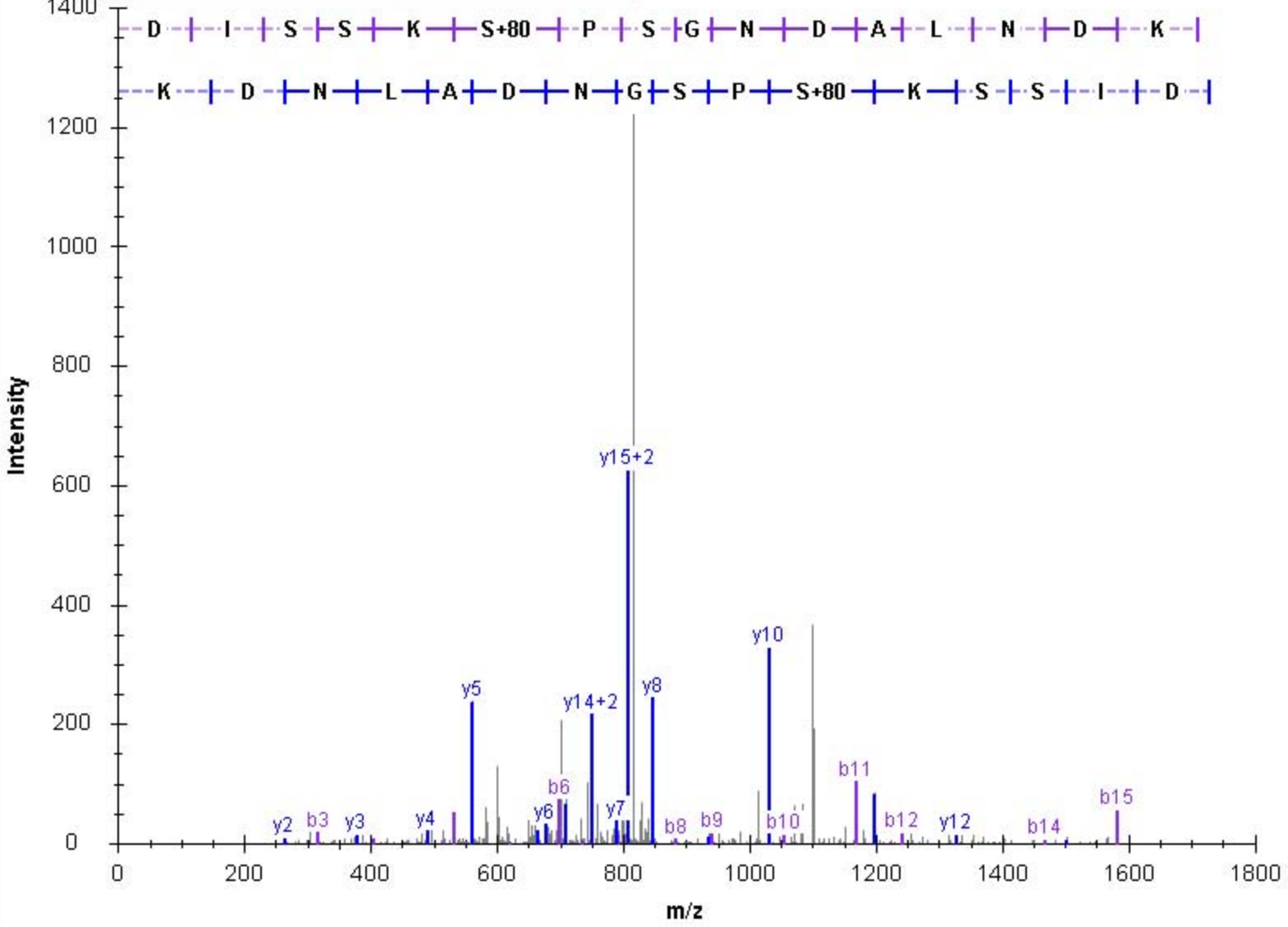
b	b(+2)				y	y(+2)
100.076	50.541	1	V	13	1592.802	796.904
228.134	114.571	2	Q	12	1493.733	747.370
342.177	171.592	3	N	11	1365.675	683.341
471.220	236.114	4	E	10	1251.632	626.320
570.288	285.648	5	V	9	1122.589	561.798
671.336	336.172	6	T	8	1023.521	512.264
784.420	392.714	7	L	7	922.473	461.740
951.452	476.230	8	S	6	809.389	405.198
1048.505	524.756	9	P	5	642.357	321.682
1177.547	589.277	10	E	4	545.304	273.156
1305.606	653.307	11	Q	3	416.262	208.634
1418.690	709.849	12	L	2	288.203	144.605
1574.791	787.899	13	R	1	175.119	88.063

controllerType=0 controllerNumber=1 scan=10700

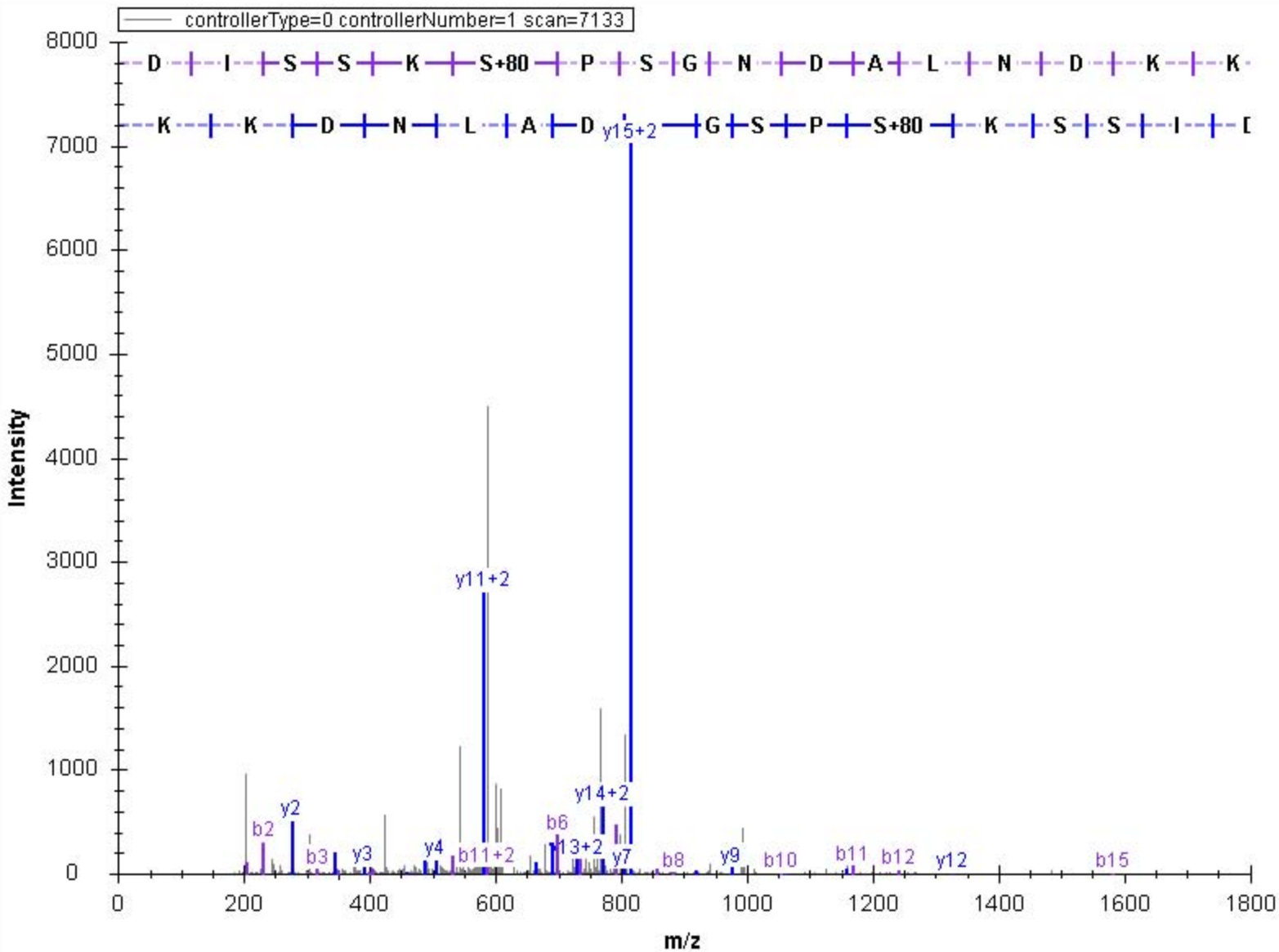


b	b(+2)				y	y(+2)
116.034	58.521	1	D	16	1727.782	864.395
229.118	115.063	2	I	15	1612.755	806.881
316.150	158.579	3	S	14	1499.671	750.339
403.182	202.095	4	S	13	1412.639	706.823
531.277	266.142	5	K	12	1325.607	663.307
698.309	349.658	6	S	11	1197.512	599.260
795.362	398.185	7	P	10	1030.480	515.744
882.394	441.701	8	S	9	933.427	467.217
939.416	470.211	9	G	8	846.395	423.701
1053.459	527.233	10	N	7	789.374	395.190
1168.485	584.746	11	D	6	675.331	338.169
1239.523	620.265	12	A	5	560.304	280.656
1352.607	676.807	13	L	4	489.267	245.137
1466.650	733.828	14	N	3	376.183	188.595
1581.677	791.342	15	D	2	262.140	131.574
1709.771	855.389	16	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=6781



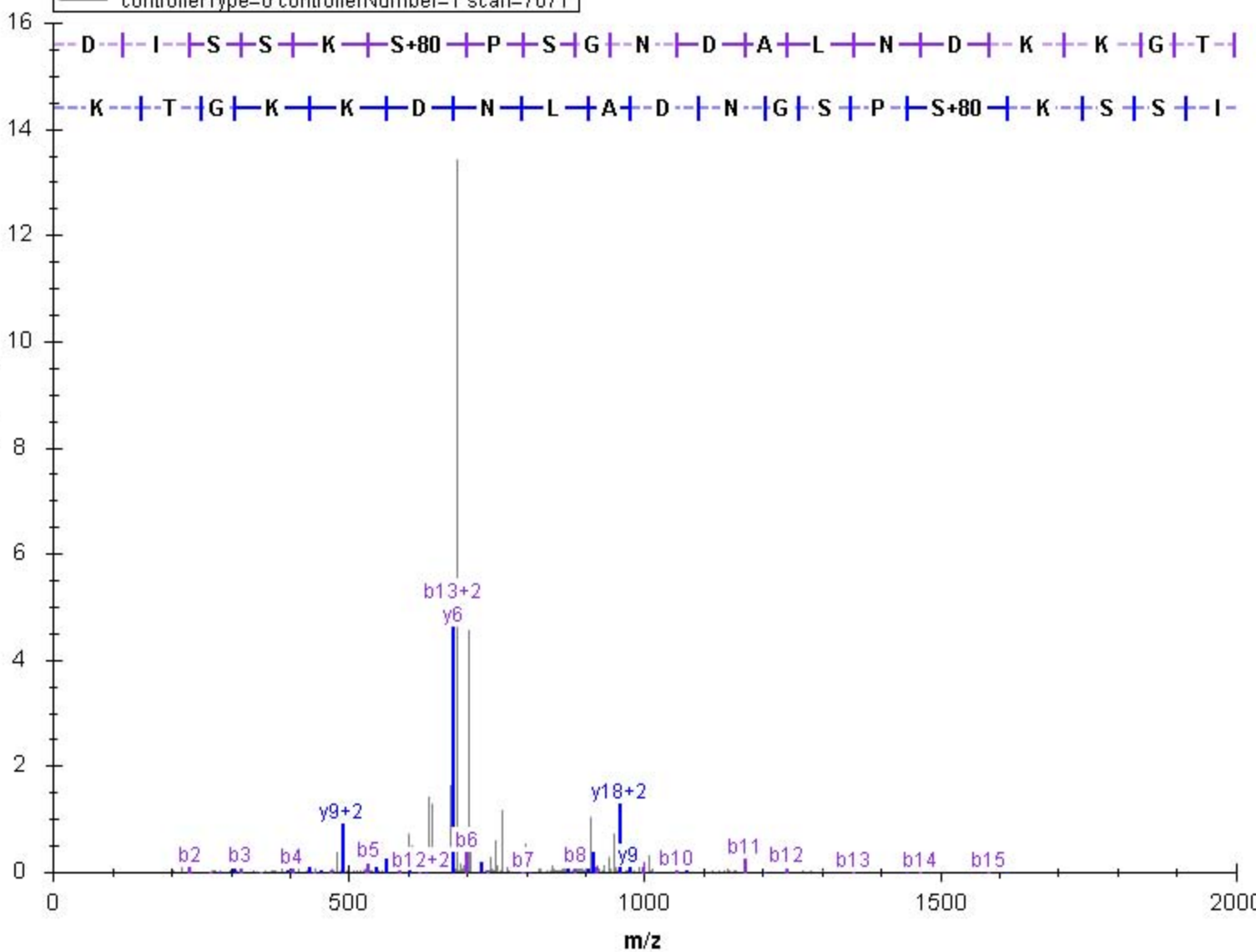
b	b(+2)				y	y(+2)
116.034	58.521	1	D	17	1855.877	928.442
229.118	115.063	2	I	16	1740.850	870.929
316.150	158.579	3	S	15	1627.766	814.387
403.182	202.095	4	S	14	1540.734	770.871
531.277	266.142	5	K	13	1453.702	727.355
698.309	349.658	6	S	12	1325.607	663.307
795.362	398.185	7	P	11	1158.575	579.791
882.394	441.701	8	S	10	1061.522	531.265
939.416	470.211	9	G	9	974.490	487.749
1053.459	527.233	10	N	8	917.469	459.238
1168.485	584.746	11	D	7	803.426	402.217
1239.523	620.265	12	A	6	688.399	344.703
1352.607	676.807	13	L	5	617.362	309.184
1466.650	733.828	14	N	4	504.278	252.642
1581.677	791.342	15	D	3	390.235	195.621
1709.771	855.389	16	K	2	275.208	138.108
1837.866	919.437	17	K	1	147.113	74.060



b	b(+2)				y	y(+2)
116.034	58.521	1	D	20	2142.041	1071.524
229.118	115.063	2	I	19	2027.014	1014.011
316.150	158.579	3	S	18	1913.930	957.469
403.182	202.095	4	S	17	1826.898	913.953
531.277	266.142	5	K	16	1739.866	870.437
698.309	349.658	6	S	15	1611.771	806.389
795.362	398.185	7	P	14	1444.739	722.873
882.394	441.701	8	S	13	1347.686	674.347
939.416	470.211	9	G	12	1260.654	630.831
1053.459	527.233	10	N	11	1203.633	602.320
1168.485	584.746	11	D	10	1089.590	545.299
1239.523	620.265	12	A	9	974.563	487.785
1352.607	676.807	13	L	8	903.526	452.267
1466.650	733.828	14	N	7	790.442	395.725
1581.677	791.342	15	D	6	676.399	338.703
1709.771	855.389	16	K	5	561.372	281.190
1837.866	919.437	17	K	4	433.277	217.142
1894.888	947.948	18	G	3	305.182	153.095
1995.936	998.471	19	T	2	248.160	124.584
2124.031	1062.519	20	K	1	147.113	74.060

controllerType=0 controllerNumber=1 scan=7071

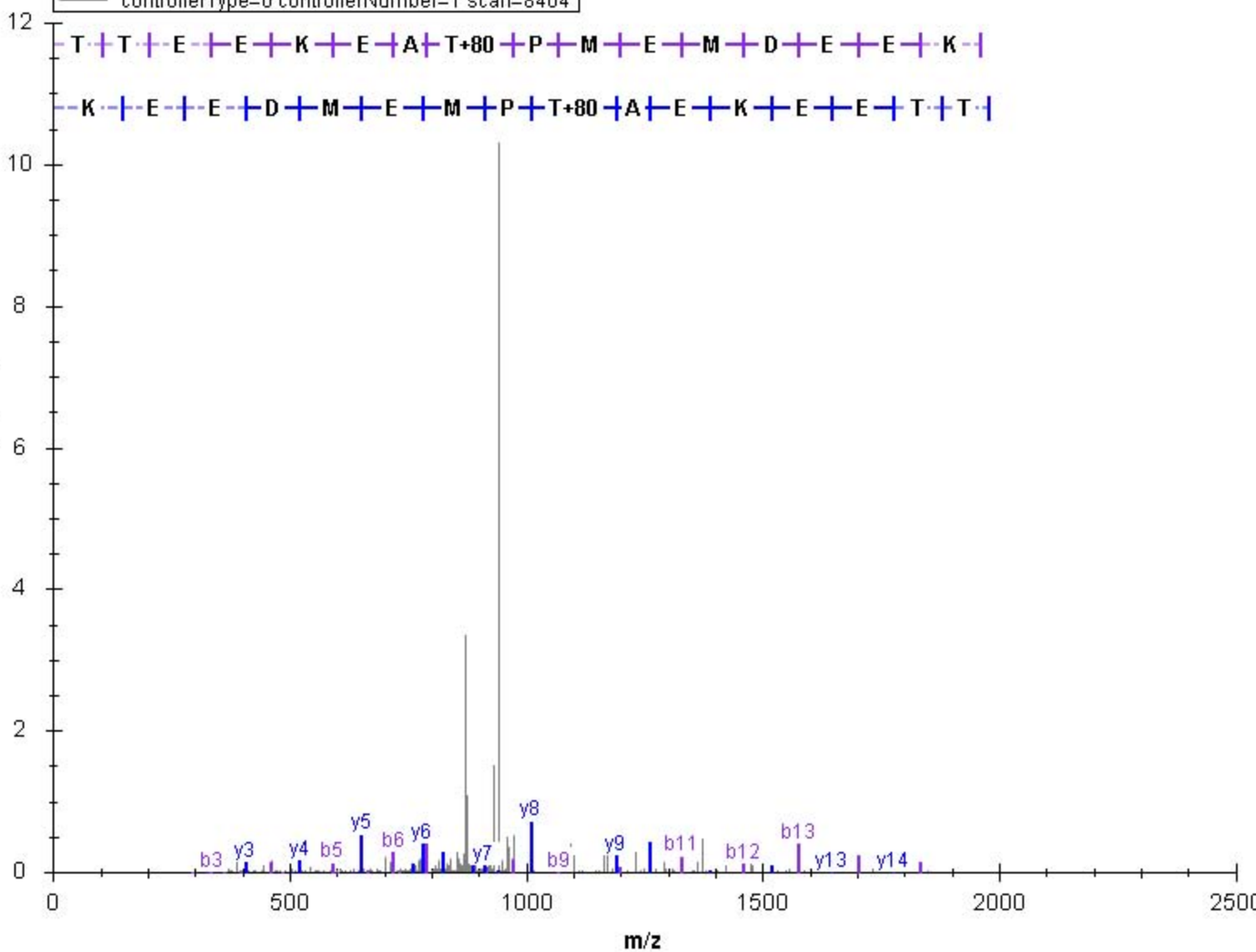
Intensity (10³)



b	b(+2)				y	y(+2)
102.055	51.531	1	T	16	1977.804	989.406
203.103	102.055	2	T	15	1876.756	938.882
332.145	166.576	3	E	14	1775.709	888.358
461.188	231.098	4	E	13	1646.666	823.837
589.283	295.145	5	K	12	1517.624	759.315
718.325	359.666	6	E	11	1389.529	695.268
789.362	395.185	7	A	10	1260.486	630.747
970.410	485.709	8	T	9	1189.449	595.228
1067.463	534.235	9	P	8	1008.401	504.704
1198.503	599.755	10	M	7	911.348	456.178
1327.546	664.277	11	E	6	780.308	390.658
1458.586	729.797	12	M	5	651.265	326.136
1573.613	787.310	13	D	4	520.225	260.616
1702.656	851.832	14	E	3	405.198	203.103
1831.699	916.353	15	E	2	276.155	138.581
1959.794	980.400	16	K	1	147.113	74.060

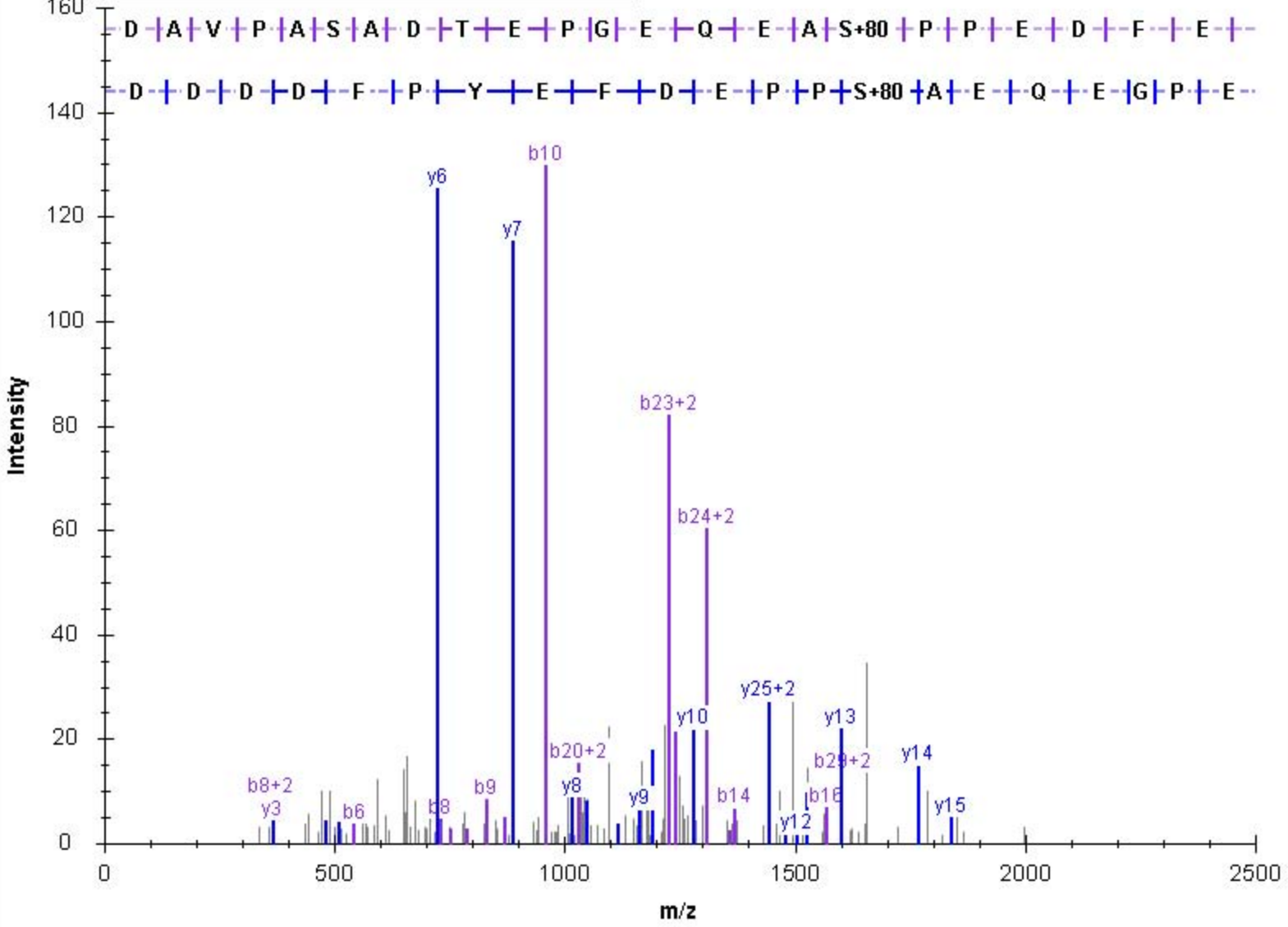
controllerType=0 controllerNumber=1 scan=8404

Intensity (10³)



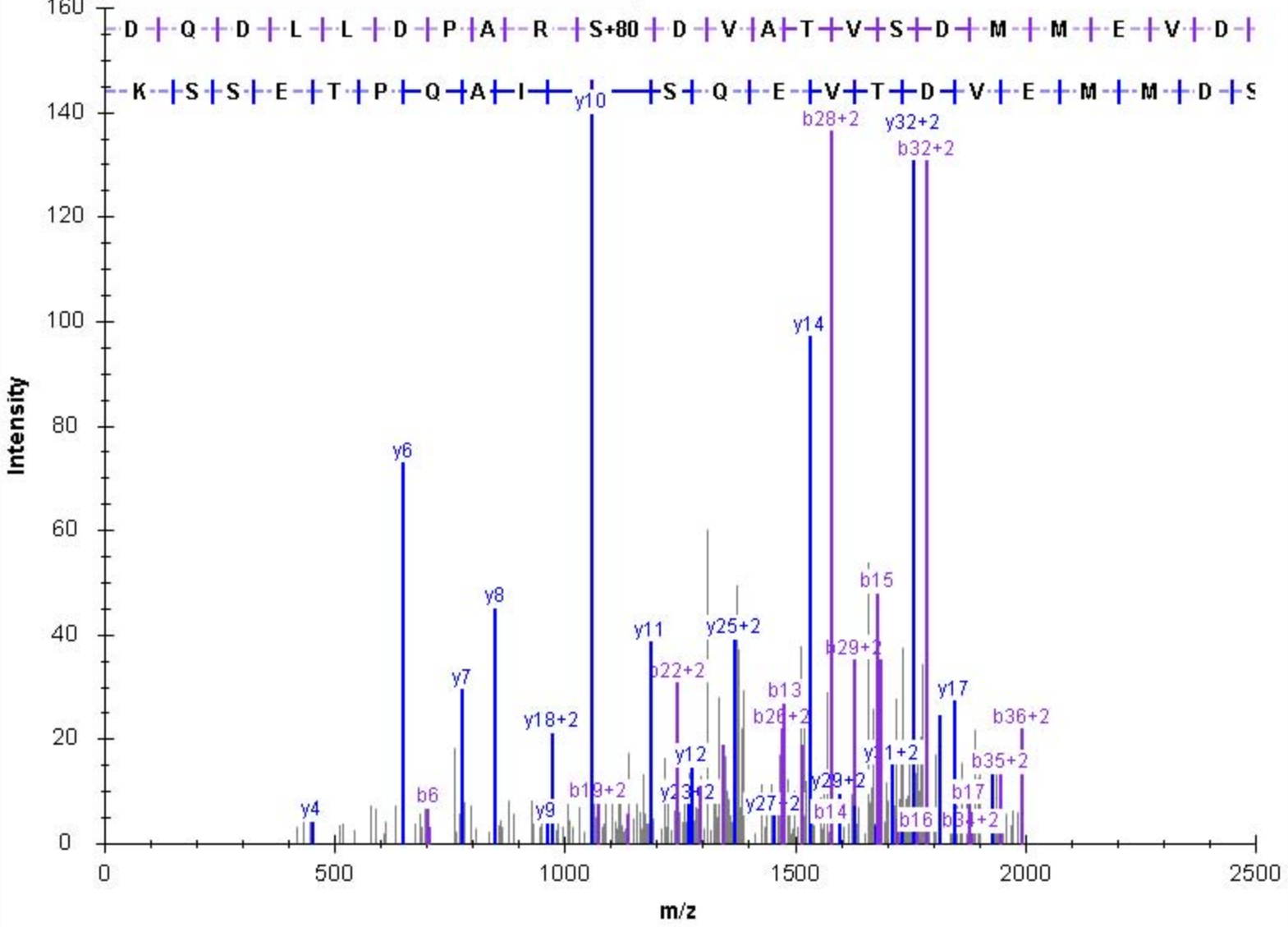
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	30	3335.292	1668.150
187.071	94.039	2	A	29	3220.265	1610.636
286.140	143.574	3	V	28	3149.228	1575.118
383.193	192.100	4	P	27	3050.160	1525.583
454.230	227.618	5	A	26	2953.107	1477.057
541.262	271.134	6	S	25	2882.070	1441.538
612.299	306.653	7	A	24	2795.038	1398.022
727.326	364.166	8	D	23	2724.001	1362.504
828.373	414.690	9	T	22	2608.974	1304.990
957.416	479.212	10	E	21	2507.926	1254.467
1054.469	527.738	11	P	20	2378.883	1189.945
1111.490	556.249	12	G	19	2281.831	1141.419
1240.533	620.770	13	E	18	2224.809	1112.908
1368.591	684.799	14	Q	17	2095.767	1048.387
1497.634	749.321	15	E	16	1967.708	984.358
1568.671	784.839	16	A	15	1838.665	919.836
1735.703	868.355	17	S	14	1767.628	884.318
1832.756	916.882	18	P	13	1600.596	800.802
1929.809	965.408	19	P	12	1503.543	752.275
2058.851	1029.929	20	E	11	1406.491	703.749
2173.878	1087.443	21	D	10	1277.448	639.228
2320.947	1160.977	22	F	9	1162.421	581.714
2449.989	1225.498	23	E	8	1015.353	508.180
2613.053	1307.030	24	Y	7	886.310	443.659
2710.105	1355.556	25	P	6	723.247	362.127
2857.174	1429.090	26	F	5	626.194	313.601
2972.201	1486.604	27	D	4	479.126	240.066
3087.228	1544.117	28	D	3	364.099	182.553
3202.255	1601.631	29	D	2	249.072	125.040
3317.281	1659.144	30	D	1	134.045	67.526

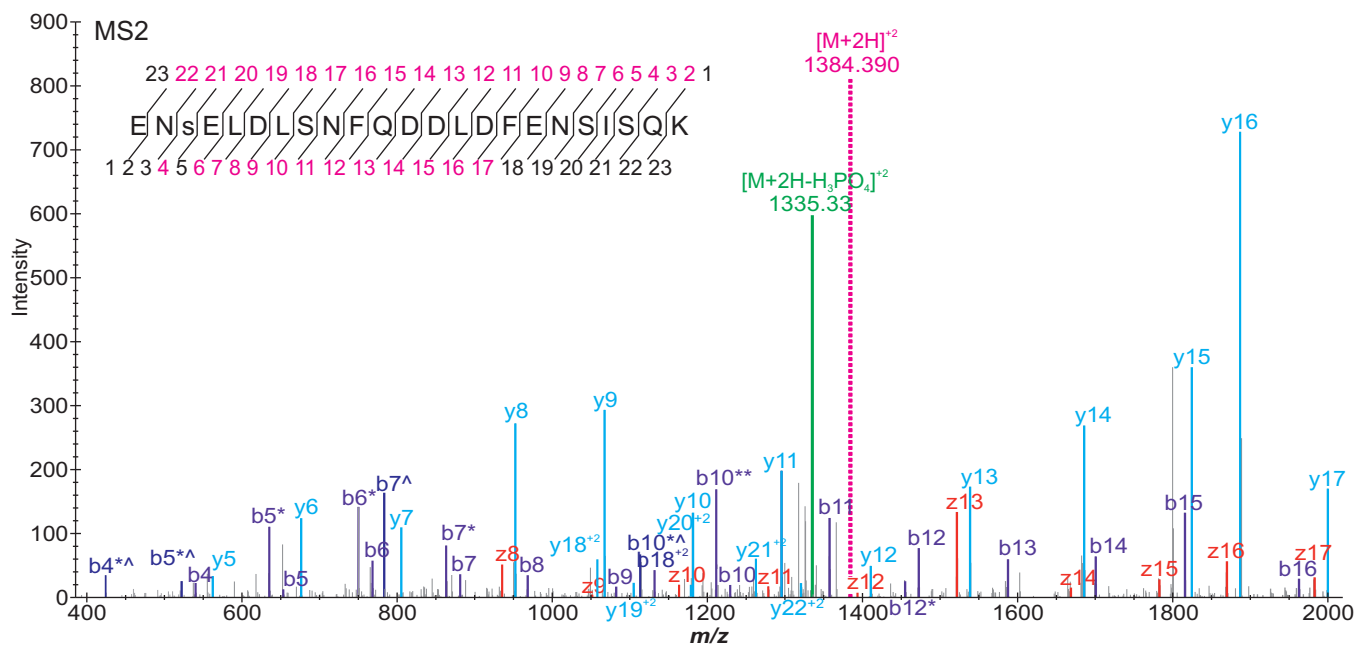
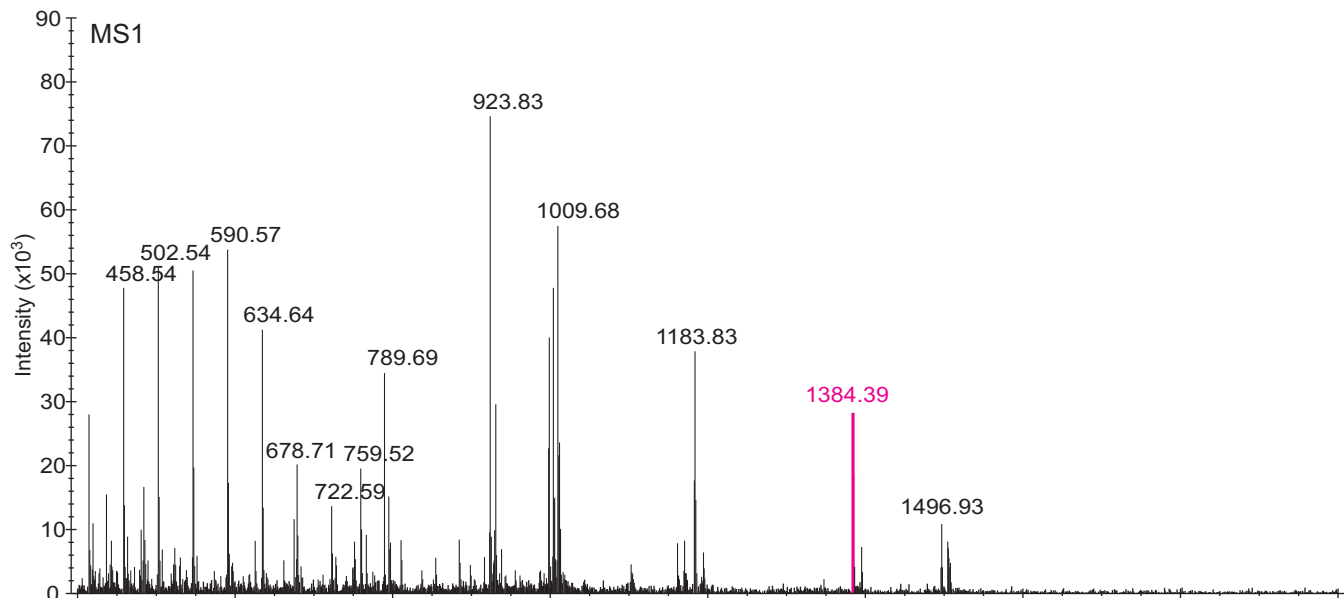
controllerType=0 controllerNumber=1 scan=12078



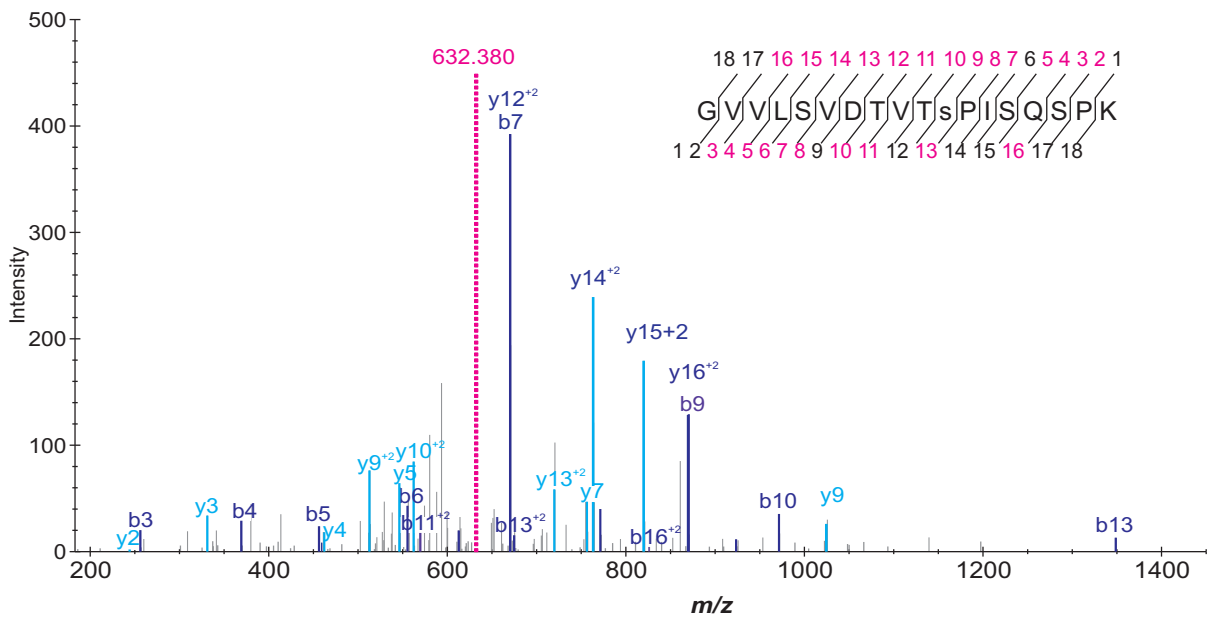
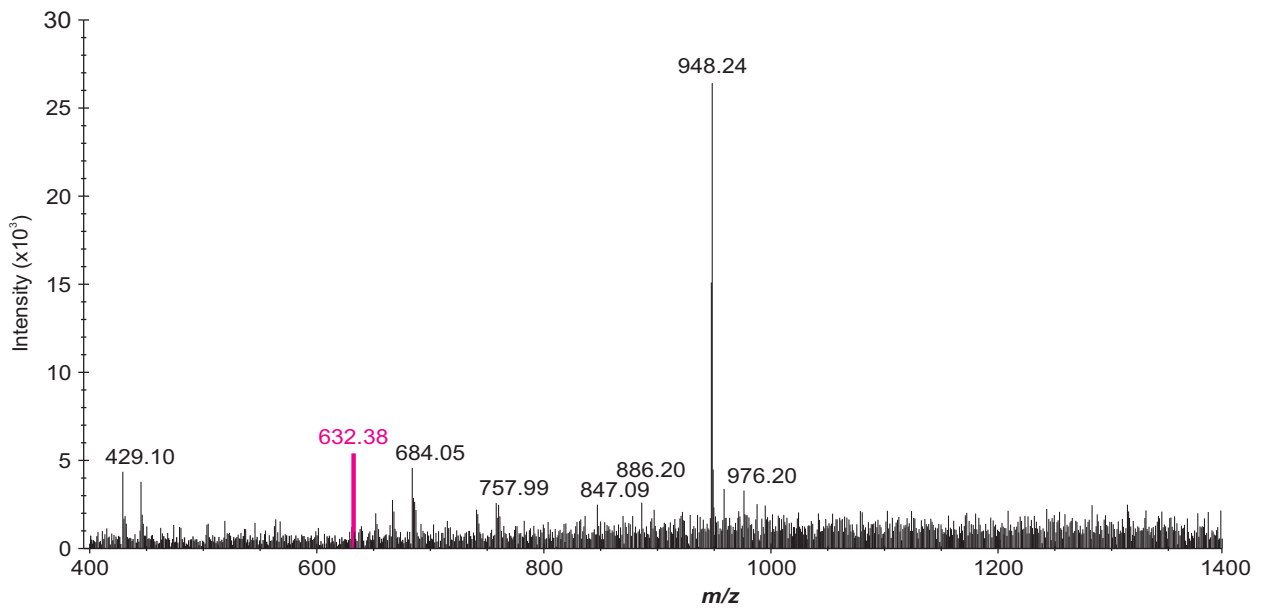
b	b(+2)			y	y(+2)	
116.034	58.521	1	D	38	4213.901	2107.454
244.093	122.550	2	Q	37	4098.874	2049.941
359.120	180.064	3	D	36	3970.816	1985.912
472.204	236.606	4	L	35	3855.789	1928.398
585.288	293.148	5	L	34	3742.705	1871.856
700.315	350.661	6	D	33	3629.621	1815.314
797.368	399.187	7	P	32	3514.594	1757.801
868.405	434.706	8	A	31	3417.541	1709.274
1024.506	512.757	9	R	30	3346.504	1673.756
1191.538	596.273	10	S	29	3190.403	1595.705
1306.565	653.786	11	D	28	3023.371	1512.189
1405.633	703.320	12	V	27	2908.344	1454.676
1476.670	738.839	13	A	26	2809.275	1405.141
1577.718	789.363	14	T	25	2738.238	1369.623
1676.786	838.897	15	V	24	2637.191	1319.099
1763.818	882.413	16	S	23	2538.122	1269.565
1878.845	939.926	17	D	22	2451.090	1226.049
2009.886	1005.447	18	M	21	2336.063	1168.535
2140.926	1070.967	19	M	20	2205.023	1103.015
2269.969	1135.488	20	E	19	2073.982	1037.495
2369.037	1185.022	21	V	18	1944.940	972.973
2484.064	1242.536	22	D	17	1845.871	923.439
2585.112	1293.060	23	T	16	1730.844	865.926
2684.180	1342.594	24	V	15	1629.797	815.402
2813.223	1407.115	25	E	14	1530.728	765.868
2941.282	1471.144	26	Q	13	1401.686	701.346
3028.314	1514.660	27	S	12	1273.627	637.317
3157.356	1579.182	28	E	11	1186.595	593.801
3254.409	1627.708	29	P	10	1057.552	529.280
3367.493	1684.250	30	I	9	960.500	480.753
3438.530	1719.769	31	A	8	847.416	424.211
3566.589	1783.798	32	Q	7	776.378	388.693

controllerType=0 controllerNumber=1 scan=14807





Supplemental Figure 2



Supplemental Figure 3