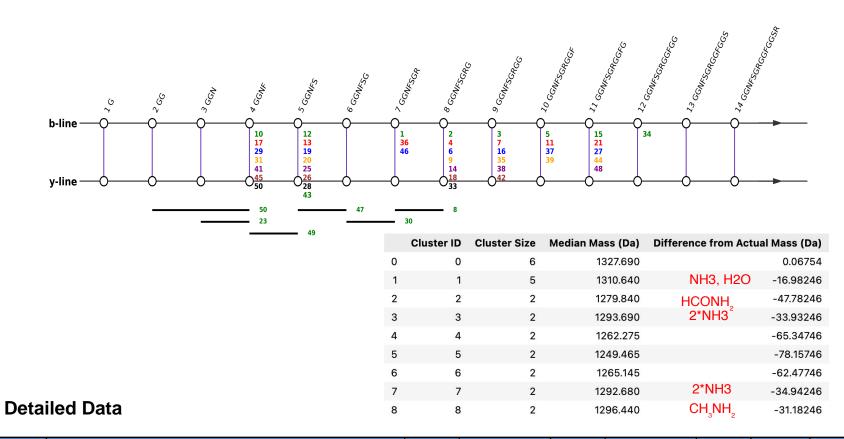
## [GGNFSGRMeGGFGGSR+2H]2+

Fragmentation Diagram for: GGNFSGRGGFGGSR



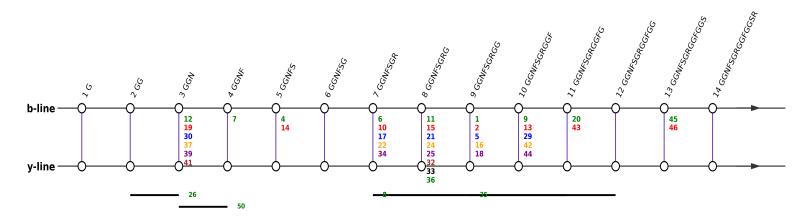
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y7 (1+) @ 637.39 & b7 (1+) @ 690.36	637.39	637.31	690.36	690.33	1327.75	1965.14	2018.11	1327.75
2	usable	y6 (1+) @ 580.39 & b8 (1+) @ 747.43	580.39	580.28	747.43	747.35	1327.82	1908.21	2075.25	1327.82

3	usable	y5 (1+) @ 523.26 & b9 (1+) @ 804.37	523.26	523.26	804.37	804.37	1327.63	1850.89	2132.0	1327.63
4	usable	y6 (1+) @ 580.37 & [b8-NH3] (1+) @ 730.35	580.37	580.28	730.35	730.33	1310.72	1891.09	2041.07	1310.72
5	usable	[y4-NH3] (1+) @ 359.11 & b10 (1+) @ 951.13	359.11	359.17	951.13	951.44	1310.24	1669.35	2261.37	1310.24
6	usable	[b8-CH3NH2-NH3] (1+) @ 699.38 & y6 (1+) @ 580.59	699.38	699.28	580.59	580.28	1279.97	1979.35	1860.56	1279.97
7	usable	[y5-NH3] (1+) @ 506.09 & b9 (1+) @ 804.5	506.09	506.24	804.5	804.37	1310.59	1816.68	2115.09	1310.59
8	non_complementary	y6(1+) @ 580.43 & [b7-NH3] (1+) @ 673.04	580.43	580.28	673.04	673.31	1253.47	1833.9	1926.51	1253.47
9	usable	[y6-NH3] (1+) @ 562.87 & b8 (1+) @ 747.77	562.87	563.26	747.77	747.35	1310.64	1873.51	2058.41	1310.64
10	usable	[y10-CH3NH2] (1+) @ 921.04 & a4 (1+) @	921.04	920.43	nan	nan	nan	nan	nan	nan
11	usable	b10 (1+) @ 951.13 & [y4-2(H2O)-NH3] (1+) @ 323.13	951.13	951.44	323.13	323.15	1274.26	2225.39	1597.39	1274.26
12	usable	[y9-NH3] (1+) @ 847.45 & [b5-NH3] (1+) @ 446.02	847.45	847.42	446.02	446.17	1293.47	2140.92	1739.49	1293.47
13	usable	[y9-CH3NH2] (1+) @ 833.18 & [b5-NH3-H2O] (1+) @ 427.77	833.18	833.4	427.77	428.16	1260.95	2094.13	1688.72	1260.95
14	usable	[b8+H2O] (1+) @ 765.76 & [y6-H2O] (1+) @ 562.31	765.76	765.36	562.31	562.27	1328.07	2093.83	1890.38	1328.07
15	usable	[y3-NH3] (1+) @ 301.75 & b11(1+) @ 1009.17	301.75	302.15	1009.17	1008.46	1310.92	1612.67	2320.09	1310.92
16	usable	b9 (1+) @ 804.33 & [y5-2(NH3)](1+) @ 490.22	804.33	804.37	490.22	489.21	1294.55	2098.88	1784.77	1294.55
17	rare_mod	[y10 - HN=C=N-CH3] (1+) @ 895.4 & a4 (1+) @ 347.81	895.4	895.44	347.81	348.15	1243.21	2138.61	1591.02	1243.21
18	usable	y6(1+) @ 580.57 & a8(1+) @ 719.46	580.57	580.28	719.46	719.34	1300.03	1880.6	2019.49	1300.03
19	usable	[y9-NH3] (1+) @ 847.25 & [b5-NH3-H2O] (1+) @ 428.27	847.25	847.42	428.27	428.16	1275.52	2122.77	1703.79	1275.52
20	usable	[y9- CH3NH2] (1+) @ 833.18 & [a5-NH3-H2O] (1+) @ 400.18	833.18	833.4	400.18	400.15	1233.36	2066.54	1633.54	1233.36
21	usable	[y3-NH3] (1+) @ 301.89 & [b11-NH3] (1+) @ 992.02	301.89	302.15	992.02	991.44	1293.91	1595.8	2285.93	1293.91
22	unclear	a9 (1+) @ 776.68 & ??? @ 485.61	776.68	776.36	485.61	nan	1262.29	2038.97	1747.9	1262.29
23	non_complementary	[y10-NH3] (1+) @ 934.85 & b3(1+) @ 228.71	934.85	934.45	228.71	229.09	1163.56	2098.41	1392.27	1392.27
24	unclear	??? @ 682.12 & y6 (1+) @ 580.14	682.12	nan	580.14	580.28	1262.26	1944.38	1842.4	1262.26
25	usable	[y9- CH3NH2 – NH3] (1+) @ 816.84 & [b5-NH3-H2O] (1+) @ 428.1	816.84	816.37	428.1	428.16	1244.94	2061.78	1673.04	1244.94
26	usable	[y9- CH3NH2] (1+) @ 833.6 & [b5-NH3] (1+) @ 446.11	833.6	833.4	446.11	446.17	1279.71	2113.31	1725.82	1279.71
27	rare_mod	b11 (1+) @ 1008.62 & [y3 - HN=C=NH - 2(H2O)] (1+) @ 240.79	1008.62	1008.46	240.79	241.13	1249.41	2258.03	1490.2	1249.41
28	usable	[y9-NH3] (1+) @ 847.79 & [a5-NH3] (1+) @ 418.1	847.79	847.42	418.1	418.16	1265.89	2113.68	1683.99	1265.89
29	usable	[y10-NH3] (1+) @ 934.52 & [a4-NH3] (1+) @ 330.69	934.52	934.45	330.69	331.12	1265.21	2199.73	1595.9	1265.21
30	non_complementary	y7(1+) @ 637.6 & [b6-NH3] (1+) @ 503.15	637.6	637.31	503.15	503.19	1140.75	1778.35	1643.9	1140.75

31	rare_mod	[y10- HN=C=NH - NH3] (1+) @ 891.57 & b3 (1+) @ 228.66	891.57	892.43	228.66	229.09	1120.23	2011.8	1348.89	1348.89
32	ambiguous	y10/b10 (1+) @ 51.14 & [b4/y4 -NH3-H2O] (1+) @ 341.21	51.14	951.48	341.21	341.12	392.35	443.49	733.56	733.56
33	usable	[b8- CH3NH2 - NH3] (1+) @ 699.4 & [y6 - H2O] (1+) @ 562.35	699.4	699.28	562.35	562.27	1261.75	1961.15	1824.1	1261.75
34	usable	b12 (1+) @ 1065.78 & [y2-H2O-NH3] (1+) @ 226.8	1065.78	1065.49	226.8	227.11	1292.58	2358.36	1519.38	1292.58
35	usable	[b9- CH3NH2 - NH3] (1+) @ 755.7 & y5 (1+) @ 523.15	755.7	756.31	523.15	523.26	1278.85	2034.55	1802.0	1278.85
36	usable	b7 (1+) @ 691.33 & [y7-NH3] (1+) @ 620.15	691.33	690.33	620.15	620.28	1311.48	2002.81	1931.63	1311.48
37	rare_mod	b10 (1+) @ 952.06 & [y4 - HN=C=NH -2(H2O)] (1+) @ 297.46	952.06	951.44	297.46	298.15	1249.52	2201.58	1546.98	1249.52
38	usable	[b9 - CH3-NH2] (1+) @ 773.13 & y5 (1+) @ 523.25	773.13	773.33	523.25	523.26	1296.38	2069.51	1819.63	1296.38
39	usable	a10 (1+) @ 924.2 & [y4 – NH3- 2(H2O)] (1+) @ 323.33	924.2	923.43	323.33	323.15	1247.53	2171.73	1570.86	1247.53
40	unclear	??? @ 921.76 & y4 (1+) @ 376.36	921.76	nan	376.36	376.19	1298.12	2219.88	1674.48	1298.12
41	rare_mod	[y10 - HN=C=NH - H2O] (1+) @ 891.45 & [b4-HCONH2] (1+) @ 330.79	891.45	891.44	330.79	331.14	1222.24	2113.69	1553.03	1222.24
42	usable	[b9 + H2O] (1+) @ 822.35 & [y5-H2O] @ 505.13	822.35	822.39	505.13	505.25	1327.48	2149.83	1832.61	1327.48
43	usable	[y9 - CH3-NH2] (1+) @ 833.1 & b5 (1+) @ 463.4	833.1	833.4	463.4	463.19	1296.5	2129.6	1759.9	1296.5
44	usable	[y3-NH3] (1+) @ 302.06 & [a11-NH3](1+) @ 963.02	302.06	302.15	963.02	963.43	1265.08	1567.14	2228.1	1265.08
45	rare_mod	[y10 - HN=C=N-CH3- H2O] @ 877.52 & a4 (1+) @ 348.45	877.52	877.43	348.45	348.15	1225.97	2103.49	1574.42	1225.97
46	usable	[y7 - H2O] (1+) @ 618.99 & [b7-NH3] (1+) @ 673.79	618.99	619.29	673.79	673.31	1292.78	1911.77	1966.57	1292.78
47	non_complementary	[y8-NH3] (1+) @ 790.42 & [b5-NH3] (1+) @ 445.39	790.42	790.4	445.39	446.17	1235.81	2026.23	1681.2	1235.81
48	usable	y3 (1+) @ 318.85 & b11 (1+) @ 1008.58	318.85	319.17	1008.58	1008.46	1327.43	1646.28	2336.01	1327.43
49	non_complementary	[y9 - CH3-NH2 - NH3] (1+) @ 816.74 & [b4-NH3] (1+) @ 359.27	816.74	816.37	359.27	359.13	1176.01	1992.75	1535.28	1176.01
50	rare_mod	[y10 - HN=C=N-CH3] @ 895.4 & [bi(2-4) - H2O - NH3] (1+) @ 284.64	895.4	895.44	284.64	284.1	1180.04	2075.44	1464.68	1464.68

# [GGNFSGRMeGGFGGSR+3H]3+

Fragmentation Diagram for: GGNFSGRGGFGGSR



	Cluster ID	Cluster Size	Median Mass (Da)	Difference from Actual	Mass (Da)
0	0	13	1311.000	NH3	-16.62246
1	1	13	1328.330		0.70754
2	2	2	1300.835	CO?	-26.78746
3	3	7	1293.340	2NH3/H2O+NH3	-34.28246
4	4	2	1264.500		-63.12246
5	5	2	1283.335	HCONH <sub>9</sub>	-44.28746

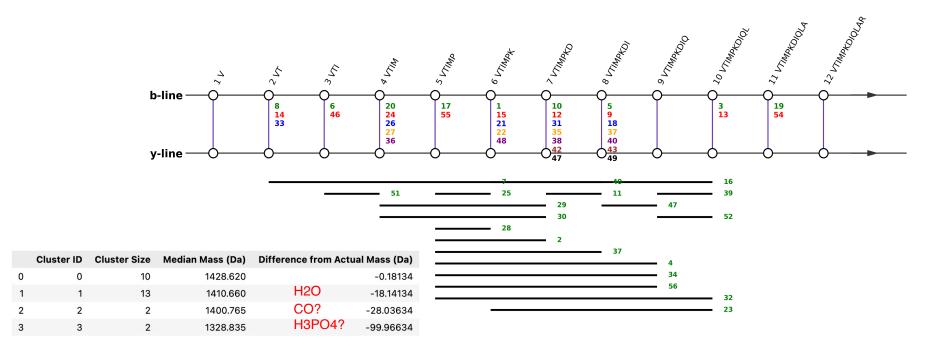
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y5 (1+) @ 523.33 & [b9 - NH3] (2+) @ 394.0	523.33	523.26	394.0	394.18	917.33	1440.66	1311.33	1311.33
2	usable	y5 (1+) @ 523.33 & b9 (2+) @ 402.67	523.33	523.26	402.67	402.69	926.0	1449.33	1328.67	1328.67

3	non_complementary	y7 (2+) @ 319.0 & [b11 - NH3] (2+) @ 496.0	319.0	319.16	496.0	496.22	815.0	1134.0	1311.0	1311.0
4	usable	y9 (2+) @ 432.67 & b5 (1+) @ 463.0	432.67	432.73	463.0	463.19	895.67	1328.34	1358.67	1328.34
5	usable	y5 (2+) @ 262.0 & b9 (1+) @ 804.33	262.0	262.13	804.33	804.37	1066.33	1328.33	1870.66	1328.33
6	usable	y7 (1+) @ 637.33 & [b7 - NH3] (2+) @ 337.0	637.33	637.31	337.0	337.16	974.33	1611.66	1311.33	1311.33
7	usable	y10 (2+) @ 476.33 & a4 (1+) @ 348.0	476.33	476.24	348.0	348.15	824.33	1300.66	1172.33	1300.66
8	non_complementary	y7 (2+) @ 319.0 & b11 (2+) @ 504.67	319.0	319.16	504.67	504.74	823.67	1142.67	1328.34	1328.34
9	usable	y4 (1+) @ 376.0 & [b10 - NH3] (2+) @ 467.67	376.0	376.19	467.67	467.71	843.67	1219.67	1311.34	1311.34
10	usable	y7 (1+) @ 637.33 & b7 (2+) @ 345.67	637.33	637.31	345.67	345.67	983.0	1620.33	1328.67	1328.67
11	usable	y6 (1+) @ 580.33 & [b8 - NH3] (2+) @ 365.33	580.33	580.28	365.33	365.67	945.66	1525.99	1310.99	1310.99
12	usable	y11 (2+) @ 550.0 & [b3 - H2O] (1+) @ 210.67	550.0	549.78	210.67	211.08	760.67	1310.67	971.34	1310.67
13	usable	y4 (1+) @ 375.67 & b10 (2+) @ 476.33	375.67	376.19	476.33	476.23	852.0	1227.67	1328.33	1328.33
14	usable	y9 (2+) @ 432.67 & [b5 - NH3] (1+) @ 446.0	432.67	432.73	446.0	446.17	878.67	1311.34	1324.67	1324.67
15	usable	y6 (1+) @ 580.33 & b8 (2+) @ 374.0	580.33	580.28	374.0	374.18	954.33	1534.66	1328.33	1328.33
16	usable	y5 (1+) @ 523.33 & [b9 – H2O – NH3] (2+) @ 385.0	523.33	523.26	385.0	385.17	908.33	1431.66	1293.33	1293.33
17	usable	y7 (1+) @ 637.33 & [b7 – H2O – NH3] (2+) @ 328.0	637.33	637.31	328.0	328.15	965.33	1602.66	1293.33	1293.33
18	usable	y5 (2+) @ 262.0 & [b9 - NH3] (1+) @ 787.33	262.0	262.13	787.33	787.35	1049.33	1311.33	1836.66	1311.33
19	usable	y11 (2+) @ 550.0 & b3 (1+) @ 228.67	550.0	549.78	228.67	229.09	778.67	1328.67	1007.34	1328.67
20	usable	[b11 – H2O – NH3] (2+) @ 487.33 & y3 (1+) @ 319.0	487.33	487.22	319.0	319.17	806.33	1293.66	1125.33	1293.66
21	usable	y6 (2+) @ 290.33 & b8 (1+) @ 747.33	290.33	290.65	747.33	747.35	1037.66	1327.99	1784.99	1327.99
22	usable	y7 (2+) @ 319.0 & b7(1+) @ 690.33	319.0	319.16	690.33	690.33	1009.33	1328.33	1699.66	1328.33
23	ambiguous	[y10 – NH3 – H2O] (2+) @ 458.67 & b4/y4 (1+) @ 376.0	458.67	458.72	376.0	376.16	834.67	1293.34	1210.67	1293.34
24	usable	y6 (1+) @ 580.33 & [b8 – H2O - NH3] (2+) @ 356.67	580.33	580.28	356.67	356.66	937.0	1517.33	1293.67	1293.67
25	usable	y6 (2+) @ 290.33 & [b8-NH3] (1+) @ 730.33	290.33	290.65	730.33	730.33	1020.66	1310.99	1750.99	1310.99
26	internal_acid	[y11 + G] (2+) @ 578.33 & bi2-3 (1+) @ 171.67	578.33	578.29	171.67	172.07	750.0	1328.33	921.67	1328.33
27	unclear	y9 (2+) @ 432.67 & ??? @ 383.0	432.67	432.73	383.0	nan	815.67	1248.34	1198.67	1248.34
28	unclear	??? @ 595.33 & [b8 - NH3] (2+) @ 366.0	595.33	nan	366.0	365.67	961.33	1556.66	1327.33	1327.33
29	usable	[y4-NH3] (1+) @ 358.67 & b10 (2+) @ 476.33	358.67	359.17	476.33	476.23	835.0	1193.67	1311.33	1311.33
30	usable	[y11 - G] (2+) @ 521.67 & [b3 + G] (1+) @ 285.67	521.67	521.26	285.67	286.11	807.34	1329.01	1093.01	1329.01
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31	ambiguous	[b10/y10 - H2O - 2(NH3)] (2+) @ 450.0 & y4/b4 @ 376.0	450.0	450.19	376.0	376.19	826.0	1276.0	1202.0	1276.0
32	usable	[b8 – NH3] (1+) @ 730.33 & ai9-10 (1+) @ 176.67	730.33	730.33	176.67	177.09	907.0	1637.33	1083.67	1083.67
33	usable	b8 (1+) @ 747.33 & ai9-10 (1+) 176.67	747.33	747.35	nan	nan	nan	nan	nan	nan
34	usable	y7 (2+) @ 319.0 & [b7-NH3] (1+) @ 673.33	319.0	319.16	673.33	673.31	992.33	1311.33	1665.66	1311.33
35	non_complementary	y5 (2+) @ 262.0 & b12 (2+) @ 533.0	262.0	262.13	533.0	533.25	795.0	1057.0	1328.0	1328.0
36	usable	b8 (1+) @ 748.0 & ai9-10 (1+) @ 204.67	748.0	747.35	204.67	177.09	952.67	1700.67	1157.34	1157.34
37	usable	y11(2+) @ 549.67 & a3(1+) @ 201.67	549.67	549.78	201.67	201.08	751.34	1301.01	953.01	1301.01
38	undefined	549.67 & 165.33	549.67	nan	165.33	nan	715.0	1264.67	880.33	1264.67
39	usable	y11 (2+) @ 550.0 & [a3 – 2(H2O)] (1+) @ 193.33	550.0	549.78	193.33	165.06	743.33	1293.33	936.66	1293.33
40	undefined	461.67 & 389.0	461.67	nan	389.0	nan	850.67	1312.34	1239.67	1312.34
41	usable	y11 (2+) @ 550.0 & [a3-NH3] (1+) @ 183.33	550.0	549.78	183.33	184.06	733.33	1283.33	916.66	1283.33
42	usable	y4 (2+) @ 188.0 & [b10-NH3] (1+) @ 934.33	188.0	188.6	934.33	934.42	1122.33	1310.33	2056.66	1310.33
43	usable	b11 (1+) @ 504.67 & [y3 – CO2] (1+) @ 274.0	504.67	1008.46	274.0	275.18	778.67	1283.34	1052.67	1283.34
44	usable	y4 (1+) @ 376.0 & ai9-10 (1+) @ 176.67	376.0	376.19	176.67	177.09	552.67	928.67	729.34	928.67
45	usable	[b13-H2O-NH3] (2+) @ 559.33 & y1(1+) @ 175.0	559.33	559.24	175.0	175.12	734.33	1293.66	909.33	1293.66
46	usable	y1 (1+) @ 174.67 & [b13-NH3] (2+) @ 567.67	174.67	175.12	567.67	568.25	742.34	917.01	1310.01	1310.01
47	unclear	y5 (1+) @ 523.67 & ??? @ 370.33	523.67	523.26	370.33	nan	894.0	1417.67	1264.33	1264.33
48	undefined	637.0 & 314.33	637.0	nan	314.33	nan	951.33	1588.33	1265.66	1265.66
49	undefined	589.33 & 131.67	589.33	nan	131.67	nan	721.0	1310.33	852.67	1310.33
50	internal_acid	[y10-H2O] (1+) @ 540.67 & [bi3-4 – 2(NH3)] (1+) @ 228.0	540.67	933.46	228.0	228.07	768.67	1309.34	996.67	1309.34

# [VTIMPK(Ac)DIQLAR+3H]3+

Fragmentation Diagram for: VTIMPKDIQLAR



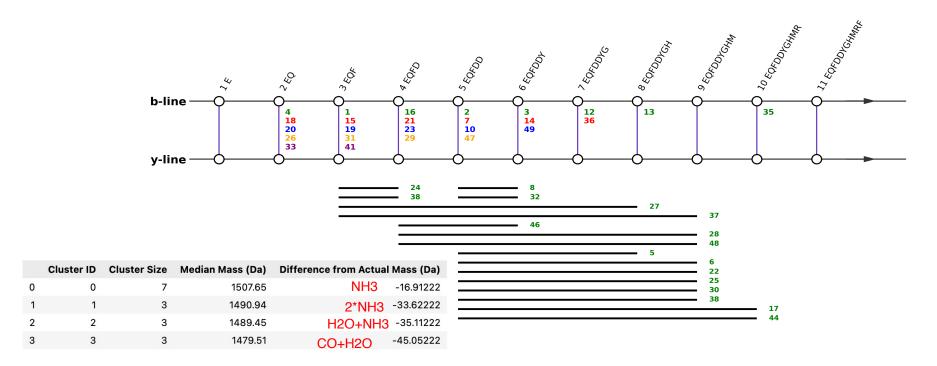
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y6 (1+) @ 715.44 & b6 (2+) @ 356.66	715.44	715.41	356.66	356.71	1072.1	1787.54	1428.76	1428.76
2	internal_acid	y5 (1+) @ 600.46 & bi5-7 (1+) @ 383.1	600.46	600.38	383.1	383.19	983.56	1584.02	1366.66	1366.66

3	usable	y2 (1+) @ 245.82 & b10 (2+) @ 591.38	245.82	246.16	591.38	591.33	837.2	1083.02	1428.58	1428.58
4	internal_acid	bi5-9 (1+) @ 624.4 & y3 (1+) @ 359.18	624.4	624.34	359.18	359.24	983.58	1607.98	1342.76	1342.76
5	usable	y4 (1+) @ 487.22 & a8(2+) @ 456.75	487.22	487.3	456.75	456.76	943.97	1431.19	1400.72	1431.19
6	usable	y9 (2+) @ 557.42 & [b3-NH3] (1+) @ 296.01	557.42	557.31	296.01	297.18	853.43	1410.85	1149.44	1410.85
7	non_complementary	y6 (2+) @ 359.14 & b9 (2+) @ 534.76	359.14	358.21	534.76	534.79	893.9	1253.04	1428.66	1428.66
8	usable	y10 (2+) @ 614.08 & b2 (1+) @ 200.71	614.08	613.85	200.71	201.12	814.79	1428.87	1015.5	1428.87
9	usable	[y4-NH3] (2+) @ 234.85 & b8 (1+) @ 940.45	234.85	235.64	940.45	940.52	1175.3	1410.15	2115.75	1410.15
10	usable	y5 (1+) @ 600.38 & b7 (2+) @ 414.18	600.38	600.38	414.18	414.22	1014.56	1614.94	1428.74	1428.74
11	non_complementary	y4 (1+) @ 487.33 & b7 (1+) @ 827.44	487.33	487.3	827.44	827.43	1314.77	1802.1	2142.21	1314.77
12	usable	y5 (2+) @ 300.5 & b7 (1+) @ 827.42	300.5	300.69	827.42	827.43	1127.92	1428.42	1955.34	1428.42
13	usable	y2 (1+) @ 245.82 & [b10-NH3] (2+) @ 582.35	245.82	246.16	582.35	582.82	828.17	1073.99	1410.52	1410.52
14	usable	y10 (2+) @ 614.08 & a2 (1+) @ 172.63	614.08	613.85	172.63	173.11	786.71	1400.79	959.34	1400.79
15	usable	y6 (1+) @ 715.45 & c5 (1+) @ 559.34	715.45	715.41	559.34	nan	1274.79	1990.24	1834.13	1274.79
16	non_complementary	y2 (1+) @ 245.79 & b9 (1+) @ 1068.42	245.79	246.16	1068.42	1068.58	1314.21	1560.0	2382.63	1314.21
17	usable	y7 (2+) @ 443.34 & b5 (1+) @ 542.33	443.34	443.26	542.33	542.3	985.67	1429.01	1528.0	1429.01
18	usable	y4 (2+) @ 243.98 & b8 (1+) @ 940.41	243.98	244.15	940.41	940.52	1184.39	1428.37	2124.8	1428.37
19	usable	y1 (1+) @ 174.58 & b11 (2+) @ 626.99	174.58	175.12	626.99	626.85	801.57	976.15	1428.56	1428.56
20	usable	y8 (2+) @ 491.76 & b4 (1+) @ 444.98	491.76	491.79	444.98	445.25	936.74	1428.5	1381.72	1428.5
21	usable	[y6-NH3] (1+) @ 698.39 & b6 (2+) @ 356.64	698.39	698.38	356.64	356.71	1055.03	1753.42	1411.67	1411.67
22	usable	y6 (1+) @ 715.54 & [b6-NH3] (2+) @ 347.56	715.54	715.41	347.56	348.19	1063.1	1778.64	1410.66	1410.66
23	non_complementary	b6 (1+) @ 712.43 & [y2 – H2O] (1+) @ 228.63	712.43	712.41	228.63	228.15	941.06	1653.49	1169.69	1653.49
24	usable	y8 (2+) @ 491.82 & a4 (1+) @ 417.1	491.82	491.79	417.1	417.24	908.92	1400.74	1326.02	1400.74
25	non_complementary	y6 (2+) @ 359.14 & [b5-NH3] (1+) @ 525.62	359.14	358.21	525.62	525.27	884.76	1243.9	1410.38	1410.38
26	usable	y8 (2+) @ 491.96 & [b4 - CH3SH - CO] (1+) @ 369.04	491.96	491.79	369.04	369.25	861.0	1352.96	1230.04	1352.96
27	usable	[y8-NH3] (2+) @ 482.8 & b4 (1+) @ 445.14	482.8	483.27	445.14	445.25	927.94	1410.74	1373.08	1410.74
28	internal_acid	y6 (1+) @ 715.66 & bi5-6 @ 267.85	715.66	715.41	267.85	268.17	983.51	1699.17	1251.36	1251.36
29	internal_acid	y4 (1+) @ 487.09 & [bi4-7 – HCOOH] (1+) @ 468.09	487.09	487.3	468.09	468.23	955.18	1442.27	1423.27	1423.27
30	internal_acid	[bi4-7 – HCOOH] (1+) @ 468.13 & ??? @ 445.09	468.13	468.23	445.09	nan	913.22	1381.35	1358.31	1381.35
					_		_	_		

31	usable	y5(1+) @ 600.3 & [b7-NH3] (2+) @ 405.11	600.3	600.38	405.11	405.71	1005.41	1605.71	1410.52	1410.52
32	internal_acid	bi5-10 (1+) @ 737.3 & y2 (1+) @ 245.92	737.3	737.42	245.92	246.16	983.22	1720.52	1229.14	1229.14
33	usable	[y10-NH3] (2+) @ 604.93 & b2(1+) @ 200.68	604.93	605.34	200.68	201.12	805.61	1410.54	1006.29	1410.54
34	internal_acid	bi5-9 (1+) @ 624.41 & b4 (1+) @ 444.93	624.41	624.34	444.93	445.25	1069.34	1693.75	1514.27	1514.27
35	usable	y5(1+) @ 600.44 & a5 (1+) @ 514.24	600.44	600.38	514.24	514.29	1114.68	1715.12	1628.92	1628.92
36	usable	y8(2+) @ 491.95 & [b4-NH3] (1+) @ 427.07	491.95	491.79	427.07	428.22	919.02	1410.97	1346.09	1410.97
37	usable	bi (5-8) (1+) @ 496.41 & y4 (1+) @ 487.01	496.41	496.28	487.01	487.3	983.42	1479.83	1470.43	1470.43
38	usable	[y5-NH3](2+) @ 291.64 & b7 (1+) @ 827.56	291.64	292.18	827.56	827.43	1119.2	1410.84	1946.76	1410.84
39	non_complementary	y2(1+) @ 245.81 & [b9-NH3] (1+) @ 1051.61	245.81	246.16	1051.61	1051.55	1297.42	1543.23	2349.03	1543.23
40	usable	bi (2-8) (1+) @ 841.49 & y4 (1+) @ 487.14	841.49	841.45	487.14	487.3	1328.63	2170.12	1815.77	1328.63
41	unclear	b8(1+) @ 940.89 & ??? @ 195.81	940.89	940.52	195.81	nan	1136.7	2077.59	1332.51	1332.51
42	usable	y5(2+) @ 300.61 & [b7-NH3] (1+) @ 809.82	300.61	300.69	809.82	810.41	1110.43	1411.04	1920.25	1411.04
43	usable	y4(2+) @ 243.81 & [b8-NH3] (1+) @ 922.17	243.81	244.15	922.17	923.49	1165.98	1409.79	2088.15	1409.79
44	unclear	b6(1+) @ 712.31 & ??? @ 200.73	712.31	712.41	200.73	nan	913.04	1625.35	1113.77	1625.35
45	unclear	y9 (2+) @ 557.39 & ??? @ 250.74	557.39	557.31	250.74	nan	808.13	1365.52	1058.87	1365.52
46	usable	[y9-NH3] (2+) @ 548.5 & [b3-NH3] (1+) @ 296.11	548.5	548.79	296.11	297.18	844.61	1393.11	1140.72	1393.11
47	usable	b7 (1+) @ 827.88 & bi(8-9) (1+) @ 241.91	827.88	827.43	241.91	242.15	1069.79	1897.67	1311.7	1311.7
48	usable	y6(1+) @ 715.27 & [a6-NH3] (2+) @ 335.69	715.27	715.41	335.69	334.19	1050.96	1766.23	1386.65	1386.65
49	usable	[y4-NH3] (2+) @ 234.7 & [b8-NH3](1+) @ 922.41	234.7	235.64	922.41	923.49	1157.11	1391.81	2079.52	1391.81
50	unclear	y8 (1+) @ 983.52 & ??? @ 216.78	983.52	982.57	216.78	nan	1200.3	2183.82	1417.08	1417.08
51	non_complementary	y8(2+) @ 491.84 & b3(1+) @ 313.96	491.84	491.79	313.96	314.21	805.8	1297.64	1119.76	1297.64
52	non_complementary	[b9-2(H2O)] (1+) @ 516.81 & y2 (1+) @ 245.85	516.81	1032.55	245.85	246.16	762.66	1279.47	1008.51	1279.47
53	unclear	??? @ 755.18 & y6(2+) @ 359.22	755.18	nan	359.22	358.21	1114.4	1869.58	1473.62	1473.62
54	usable	y1 (1+) @ 174.8 & a10 (2+) @ 577.12	174.8	175.12	577.12	577.33	751.92	926.72	1329.04	1329.04
55	usable	y7 (2+) @ 443.31 & [b5-NH3] (1+) @ 524.29	443.31	443.26	524.29	525.27	967.6	1410.91	1491.89	1410.91
56	internal_acid	bi5-9 (1+) @ 624.36 & [b4- H2O] (1+) @ 427.13	624.36	624.34	427.13	427.24	1051.49	1675.85	1478.62	1478.62

# [EQFDDY(p)GHMRF(NH2) +3H]3+

Fragmentation Diagram for: EQFDDYGHMRF



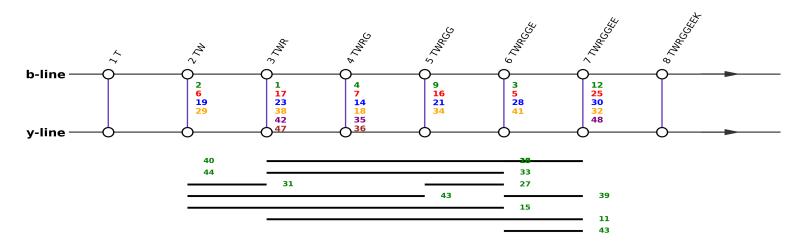
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y8(2+) @ 560.4 & [b3-NH3] (1+) @ 387.05	560.4	559.7	387.05	388.15	947.45	1507.85	1334.5	1507.85
2	usable	y6(2+) @ 445.29 & [b5-NH3] (1+) @ 617.14	445.29	444.68	617.14	618.2	1062.43	1507.72	1679.57	1507.72

3	usable	y5(2+) @ 323.67 & [b6-NH3] (1+) @ 860.17	323.67	323.16	860.17	861.23	1183.84	1507.51	2044.01	1507.51
4	usable	y9(2+) @ 633.88 & [b2-NH3] (1+) @ 239.74	633.88	633.24	239.74	241.08	873.62	1507.5	1113.36	1507.5
5	internal_acid	bi5-8 (1+) @ 1553.17 & y3 (1+) @ 452.35	1553.17	553.14	452.35	451.24	2005.52	3558.69	2457.87	2005.52
6	internal_acid	bi5-9 (1+) @ 684.16 & y2 (1+) @ 321.1	684.16	684.18	321.1	320.2	1005.26	1689.42	1326.36	1689.42
7	usable	y6(2+) @ 445.35 & a3(1+) @ 378.1	445.35	444.68	378.1	377.17	823.45	1268.8	1201.55	1268.8
8	internal_acid	y5+ @ 646.41 & bi5-6 (1+) @ 359.02	646.41	nan	359.02	359.06	1005.43	1651.84	1364.45	1651.84
9	undefined	503.73 & 498.42	503.73	nan	498.42	nan	1002.15	1505.88	1500.57	1505.88
10	usable	[b5-H2O-NH3] (1+) @ 599.96 & y6 (2+) @ 445.31	599.96	600.19	445.31	444.68	1045.27	1645.23	1490.58	1490.58
11	usable	y5 (1+) 646.38 & ai5-6 (1+) @ 330.84	nan	nan	330.84	331.05	nan	nan	nan	nan
12	usable	y4(1+) @ 589.39 & [a6-NH3](2+) @ 416.05	589.39	588.29	416.05	417.12	1005.44	1594.83	1421.49	1594.83
13	usable	y3(1+) @ 452.19 & [b8-NH3](2+) @ 527.73	452.19	451.24	527.73	528.16	979.92	1432.11	1507.65	1507.65
14	usable	[b6-2(H2O)] (1+) @ 842.68 & y5 (2+) @ 323.57	842.68	842.24	323.57	323.16	1166.25	2008.93	1489.82	1489.82
15	usable	y8(2+) @ 560.27 & [a3-NH3](1+) @ 358.97	560.27	559.7	358.97	360.14	919.24	1479.51	1278.21	1479.51
16	usable	[b4-H2O-NH3] (1+) @ 485.79 & [y7- CHONH2] (2+) @ 480.35	485.79	485.17	480.35	479.68	966.14	1451.93	1446.49	1451.93
17	internal_acid	bi5-10 (1+) @ 840.5 & y1 (1+) 164.73	840.5	840.29	nan	nan	nan	nan	nan	nan
18	usable	y9(2+) @ 633.84 & [a2-NH3](1+) @ 211.71	633.84	633.24	211.71	213.07	845.55	1479.39	1057.26	1479.39
19	usable	[y8-NH3](2+) @ 551.2 & [b3-NH3](1+) @ 387.05	551.2	551.19	387.05	388.15	938.25	1489.45	1325.3	1489.45
20	usable	y9(2+) @ 634.16 & b2(1+) @ 257.79	634.16	633.24	257.79	258.11	891.95	1526.11	1149.74	1526.11
21	usable	[y7-NH3] (2+) @ 494.13 & [b4-HCOH – H2O] (1+) @ 456.16	494.13	493.68	456.16	472.18	950.29	1444.42	1406.45	1444.42
22	internal_acid	bi5-9 (1+) @ 656.39 & y2 (1+) @ 321.11	656.39	684.18	321.11	320.2	977.5	1633.89	1298.61	1633.89
23	usable	y7 (2+) @ 502.88 & [b4-HCOH – H2O] (1+) @ 455.94	502.88	502.19	455.94	472.18	958.82	1461.7	1414.76	1461.7
24	internal_acid	[y7 – NH3] 2+ @ 494.11 & bi3-4 @ 262.78	494.11	nan	262.78	263.1	756.89	1251.0	1019.67	1251.0
25	internal_acid	[bi5-9 - CH3CH2SCH3] (1+) @ 608.2 & y2 (1+) @ 320.89	608.2	608.15	320.89	320.2	929.09	1537.29	1249.98	1537.29
26	usable	[y9-NH3] (2+) @ 624.77 & [b2-NH3] (1+) @ 239.79	624.77	624.72	239.79	241.08	864.56	1489.33	1104.35	1489.33
27	internal_acid	bi3-8 (1+) @ 815.6 & y3 (1+) @ 452.34	815.6	815.24	452.34	451.24	1267.94	2083.54	1720.28	1720.28
28	non_complementary	[b4-HCOH – H2O] (1+) @ 456.12 & y2 (1+) @ 321.07	456.12	472.18	321.07	320.2	777.19	1233.31	1098.26	1233.31
29	usable	[y7 – NH3] (2+) @ 494.28 & [b4 - H2O – NH3] (1+) @ 484.76	494.28	493.68	484.76	485.17	979.04	1473.32	1463.8	1473.32
30	internal_acid	[bi5-9] (1+) @ 683.79 & [b4 - HCOH – H2O] (1+) @ 456.23	683.79	684.18	456.23	472.18	1140.02	1823.81	1596.25	1596.25

31	usable	y8 (2+) @ 560.59 & [b3 – 2(H2O)] (1+) @ 369.82	560.59	559.7	369.82	369.16	930.41	1491.0	1300.23	1491.0
32	internal_acid	y5 (1+) @ 646.41 & bi5-6 (1+) @ 312.22	646.41	645.32	312.22	359.06	958.63	1605.04	1270.85	1605.04
33	usable	y9 (2+) @ 634.11 & [b2 – H2O – NH3] (1+) @ 222.72	634.11	633.24	222.72	223.07	856.83	1490.94	1079.55	1490.94
34	unclear	b8 (2+) @ 536.55 & ??? @ 454.17	536.55	536.67	454.17	nan	990.72	1527.27	1444.89	1527.27
35	usable	y1(1+) @ 164.91 & [b10-NH3](2+) @ 671.48	164.91	164.09	671.48	671.73	836.39	1001.3	1507.87	1507.87
36	usable	y4(2+) @ 294.78 & [b7-NH3](1+) @ 917.61	294.78	294.65	917.61	918.26	1212.39	1507.17	2130.0	1507.17
37	internal_acid	bi3-9 (1+) @ 946.47 & y2 (1+) 321.09	946.47	946.28	nan	nan	nan	nan	nan	nan
38	internal_acid	bi5-9 (1+) @ 683.85 & bi3-4 (1+) @ 263.1	683.85	684.18	263.1	263.1	946.95	1630.8	1210.05	1630.8
39	undefined	591.11 & 398.48	591.11	nan	398.48	nan	989.59	1580.7	1388.07	1580.7
40	unclear	y9 (2+) @ 634.11 & ??? @ 194.76	634.11	633.24	194.76	nan	828.87	1462.98	1023.63	1462.98
41	usable	[y8-NH3] (2+) @ 551.28 & [a3-H2O] (1+) @ 358.64	551.28	551.19	358.64	359.16	909.92	1461.2	1268.56	1461.2
42	unclear	y8(2+) @ 560.81 & ??? @ 342.47	560.81	559.7	342.47	nan	903.28	1464.09	1245.75	1464.09
43	unclear	y4(1+) @ 589.96 & ??? @ 329.12	589.96	588.29	329.12	nan	919.08	1509.04	1248.2	1509.04
44	internal_acid	bi5-10 (1+) @ 840.36 & [b4 – H2O – NH3] (1+) @ 485.91	840.36	840.29	485.91	485.17	1326.27	2166.63	1812.18	1326.27
45	undefined	518.97 & 454.06	518.97	nan	454.06	nan	973.03	1492.0	1427.09	1492.0
46	non_complementary	y5 (1+) @ 646.3 & [b4-HCOH – H2O] (1+) @ 456.09	646.3	645.32	456.09	472.18	1102.39	1748.69	1558.48	1558.48
47	usable	y6 (1+) @ 889.27 & a3 (1+) @ 378.19	889.27	888.35	378.19	377.17	1267.46	2156.73	1645.65	1645.65
48	non_complementary	[b4 – H2O – NH3] (1+) @ 484.86 & y2 (1+) @ 320.83	484.86	485.17	320.83	320.2	805.69	1290.55	1126.52	1290.55
49	usable	y5 (2+) @ 323.7 & [a6-NH3] (1+) @ 832.58	323.7	323.16	832.58	833.22	1156.28	1479.98	1988.86	1479.98
50	undefined	567.88 & 374.49	567.88	nan	374.49	nan	942.37	1510.25	1316.86	1510.25

# [TWR(Me2)GGEEK+3H]3+

Fragmentation Diagram for: TWRGGEEK



	Cluster ID	Cluster Size	Median Mass (Da)	Difference from Actual Mass (Da)
0	0	7	992.300	-0.19302
1	1	9	974.240	NH3/H2O -18.25302
2	2	4	956.255	NH3+H2O/2H2O/2NH3 -36.23802

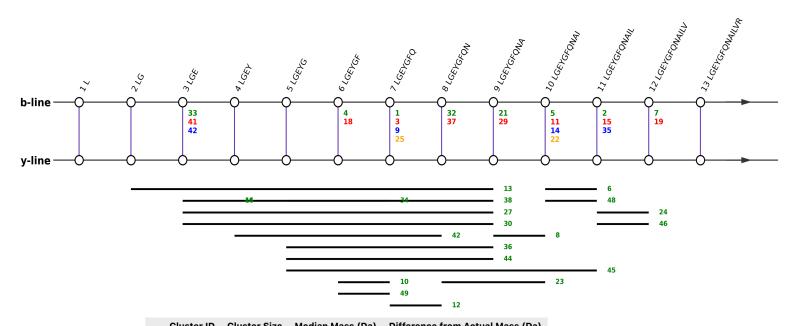
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y5 (1+) @ 519.33 & b3 (2+) @ 236.46	519.33	519.24	236.46	236.64	755.79	1275.12	992.25	992.25
2	usable	y6 (2+) @ 352.17 & b2 (1+) @ 287.97	352.17	352.19	287.97	288.13	640.14	992.31	928.11	992.31

3	usable	y2 (1+) @ 276.0 & b6 (2+) @ 358.22	276.0	276.16	358.22	358.18	634.22	910.22	992.44	992.44
4	usable	y4 (1+) @ 462.2 & b4 (2+) @ 265.05	462.2	462.22	265.05	265.15	727.25	1189.45	992.3	992.3
5	usable	y2 (1+) @ 275.95 & [b6-NH3] (2+) @ 349.0	275.95	276.16	349.0	349.67	624.95	900.9	973.95	973.95
6	usable	y6 (2+) @ 352.25 & a2 (1+) @ 260.09	352.25	352.19	260.09	260.12	612.34	964.59	872.43	964.59
7	usable	b4 (1+) @ 529.34 & Im(W) @ 158.68	529.34	529.29	158.68	nan	688.02	1217.36	846.7	846.7
8	undefined	379.75 & 197.76	379.75	nan	197.76	nan	577.51	957.26	775.27	957.26
9	usable	[y3-NH3] (1+) @ 387.08 & [b5-NH3] (2+) @ 284.5	387.08	388.17	284.5	285.15	671.58	1058.66	956.08	956.08
10	non_complementary	[y2-NH3] (2+) @ 129.42 & b7 (2+) @ 422.56	129.42	130.07	422.56	422.7	551.98	681.4	974.54	974.54
11	internal_acid	[bi3-7 - HCOOH] (1+) @ 511.25 & Im (W) @ 158.67	511.25	511.26	158.67	nan	669.92	1181.17	828.59	828.59
12	usable	y1(1+) @ 146.68 & [b7-NH3](2+) @ 413.81	146.68	147.11	413.81	414.19	560.49	707.17	974.3	974.3
13	internal_acid	bi3-6 (1+) @ 428.14 & y2 (1+) @ 276.01	428.14	428.23	276.01	276.16	704.15	1132.29	980.16	980.16
14	usable	y4 (1+) @ 462.16 & [b4-NH3] (2+) @ 255.92	462.16	462.22	255.92	256.63	718.08	1180.24	974.0	974.0
15	internal_acid	bi2-6 (1+) @ 614.19 & y2 (1+) @ 276.05	614.19	614.3	276.05	276.16	890.24	1504.43	1166.29	890.24
16	usable	y3 (1+) @ 405.15 & [b5-NH3] (2+) @ 284.45	405.15	405.2	284.45	285.15	689.6	1094.75	974.05	974.05
17	usable	y5 (1+) @ 519.29 & [b3-NH3] (2+) @ 227.3	519.29	519.24	227.3	228.12	746.59	1265.88	973.89	973.89
18	usable	y4 (2+) @ 231.48 & [b4-NH3] (1+) @ 511.28	231.48	231.61	511.28	512.26	742.76	974.24	1254.04	974.24
19	usable	[y6 - CH3NHCH3] (1+) @ 658.39 & Im(W) 158.65	658.39	658.32	nan	nan	nan	nan	nan	nan
20	undefined	519.31 & 343.18	519.31	nan	343.18	nan	862.49	1381.8	1205.67	862.49
21	usable	[y3-NH3] (1+) @ 387.17 & b5 (2+) @ 293.58	387.17	388.17	293.58	293.66	680.75	1067.92	974.33	974.33
22	undefined	583.42 & 243.89	583.42	nan	243.89	nan	827.31	1410.73	1071.2	1071.2
23	usable	y5 (1+) @ 519.34 & [b3-H2O-NH3] (2+) @ 218.59	519.34	519.24	218.59	219.12	737.93	1257.27	956.52	956.52
24	undefined	360.8 & 257.89	360.8	nan	257.89	nan	618.69	979.49	876.58	979.49
25	usable	y1 (1+) @ 146.68 & b7 (2+) @ 422.86	146.68	147.11	422.86	422.7	569.54	716.22	992.4	992.4
26	non_complementary	[y2-NH3] (2+) @ 129.33 & [b7-NH3] (2+) @ 413.55	129.33	130.07	413.55	414.19	542.88	672.21	956.43	956.43
27	internal_acid	[b4-NH3] (1+) @ 511.38 & bi5-6 (1+) @ 186.59	511.38	512.26	186.59	187.07	697.97	1209.35	884.56	884.56
28	usable	[y2-NH3] (2+) @ 129.46 & a6(2+) @ 342.91	129.46	130.07	342.91	344.17	472.37	601.83	815.28	815.28
29	usable	y6(2+) @ 353.02 & [b2-H2O] (1+) @ 268.68	353.02	352.19	268.68	270.12	621.7	974.72	890.38	974.72
30	usable	y6 (2+) @ 352.16 & [y1-H2O] (1+) @ 117.43	352.16	352.19	117.43	129.1	469.59	821.75	587.02	821.75

internal_acid	bi2-3 (1+) @ 370.7 & ??? @ 197.72	370.7	371.22	197.72	nan	568.42	939.12	766.14	939.12
usable	[b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45	431.82	431.71	nan	nan	nan	nan	nan	nan
internal_acid	bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75	428.11	428.23	287.75	288.13	715.86	1143.97	1003.61	1003.61
usable	y3 (1+) @ 405.0 & b5 (2+) @ 293.55	405.0	405.2	293.55	293.66	698.55	1103.55	992.1	992.1
usable	y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05	462.22	462.22	242.05	242.63	704.27	1166.49	946.32	946.32
usable	y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42	230.81	231.61	485.42	484.25	716.23	947.04	1201.65	947.04
unclear	y7-H2O (2+) 436.23 & ??? @ 118.35	nan	nan	118.35	nan	nan	nan	nan	nan
usable	y5 (1+) @ 519.35 & [b3 - CH3NHCH3 – H2O] (2+) @ 205.31	519.35	519.24	205.31	205.1	724.66	1244.01	929.97	929.97
non_complementary	y1 (1+) @ 147.54 & b6 (1+) @ 715.4	147.54	147.11	715.4	715.35	862.94	1010.48	1578.34	1010.48
internal_acid	[y6 - CH3-NH-CH3] (1+) @ 658.42 & bi2-2 (1+) @ 186.66	658.42	658.32	186.66	187.09	845.08	1503.5	1031.74	1031.74
usable	[b6 - H3C-N=CH2 - NH3] (1+) @ 654.37 & y2 (1+) @ y2 (1+) 275.92	654.37	655.28	nan	nan	nan	nan	nan	nan
usable	y5 (1+) @ 519.11 & a2 (2+) @ 129.47	519.11	519.24	129.47	130.57	648.58	1167.69	778.05	1167.69
usable	bi 2-5 (1+) @ 485.29 & [bi 6-7 – HCOOH] (1+) @ 212.85	485.29	485.26	212.85	213.09	698.14	1183.43	910.99	910.99
internal_acid	y6 (2+) @ 352.4 & bi2-2 (1+) @ 186.67	352.4	352.19	186.67	187.09	539.07	891.47	725.74	891.47
unclear	y5 (1+) @ 519.0 & ??? @ 177.74	519.0	519.24	177.74	nan	696.74	1215.74	874.48	874.48
undefined	697.71 & 101.31	697.71	nan	101.31	nan	799.02	1496.73	900.33	900.33
usable	y5 (2+) @ 259.95 & b3 (1+) @ 472.14	259.95	260.12	472.14	472.27	732.09	992.04	1204.23	992.04
usable	y1 (1+) @ 146.75 & a5 (1+) @ 557.2	146.75	147.11	557.2	558.3	703.95	850.7	1261.15	850.7
undefined	404.6 & 146.46	404.6	nan	146.46	nan	551.06	955.66	697.52	955.66
undefined	352.05 & 131.78	352.05	nan	131.78	nan	483.83	835.88	615.61	835.88
	usable internal_acid usable usable usable usable unclear usable non_complementary internal_acid usable usable usable usable usable usable internal_acid unclear undefined usable usable undefined	usable [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45  internal_acid bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75  usable y3 (1+) @ 405.0 & b5 (2+) @ 293.55  usable y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05  usable y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42  unclear y7-H2O (2+) 436.23 & ??? @ 118.35  usable y5 (1+) @ 519.35 & [b3 - CH3NHCH3 - H2O] (2+) @ 205.31  non_complementary y1 (1+) @ 147.54 & b6 (1+) @ 715.4  internal_acid [y6 - CH3-NH-CH3] (1+) @ 658.42 & bi2-2 (1+) @ 186.66  usable [b6 - H3C-N=CH2 - NH3] (1+) @ 654.37 & y2 (1+) @ y2 (1+) 275.92  usable y5 (1+) @ 519.11 & a2 (2+) @ 129.47  usable bi 2-5 (1+) @ 485.29 & [bi 6-7 - HCOOH] (1+) @ 212.85  internal_acid y6 (2+) @ 352.4 & bi2-2 (1+) @ 186.67  unclear y5 (1+) @ 519.0 & ??? @ 177.74  undefined 697.71 & 101.31  usable y5 (2+) @ 259.95 & b3 (1+) @ 472.14  usable y1 (1+) @ 146.75 & a5 (1+) @ 557.2  undefined 404.6 & 146.46	usable       [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45       431.82         internal_acid       bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75       428.11         usable       y3 (1+) @ 405.0 & b5 (2+) @ 293.55       405.0         usable       y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05       462.22         usable       y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42       230.81         unclear       y7-H2O (2+) 436.23 & ??? @ 118.35       nan         usable       y5 (1+) @ 519.35 & [b3 - CH3NHCH3 - H2O] (2+) @ 205.31       519.35         non_complementary       y1 (1+) @ 147.54 & b6 (1+) @ 715.4       147.54         internal_acid       [y6 - CH3-NH-CH3] (1+) @ 658.42 & bi2-2 (1+) @ 186.66       658.42         usable       [b6 - H3C-N=CH2 - NH3] (1+) @ 654.37 & y2 (1+) @ y2 (1+) 275.92       654.37         usable       y5 (1+) @ 519.11 & a2 (2+) @ 129.47       519.11         usable       bi 2-5 (1+) @ 485.29 & [bi 6-7 - HCOOH] (1+) @ 212.85       485.29         internal_acid       y6 (2+) @ 352.4 & bi2-2 (1+) @ 186.67       352.4         unclear       y5 (1+) @ 519.0 & ??? @ 177.74       519.0         undefined       697.71 & 101.31       697.71         usable       y5 (2+) @ 259.95 & b3 (1+) @ 472.14       259.95         usable       y1 (1+) @ 146.75 & a5 (1+) @ 557.2       146.75 <td>usable         [b7+H2O] (2+) @ 431.82 &amp; y1-H2O (1+)128.45         431.82         431.71           internal_acid         bi3-6 (1+) @ 428.11 &amp; b2 (1+) @ 287.75         428.11         428.23           usable         y3 (1+) @ 405.0 &amp; b5 (2+) @ 293.55         405.0         405.2           usable         y4 (1+) @ 462.22 &amp; [a4-NH3] (2+) @ 242.05         462.22         462.22           usable         y4 (2+) @ 230.81 &amp; [a4-NH3] (1+) @ 485.42         230.81         231.61           unclear         y7-H2O (2+) 436.23 &amp; ??? @ 118.35         nan         nan           usable         y5 (1+) @ 519.35 &amp; [b3 - CH3NHCH3 - H2O] (2+) @ 205.31         519.35         519.24           non_complementary         y1 (1+) @ 147.54 &amp; b6 (1+) @ 715.4         147.54         147.11           internal_acid         [y6 - CH3-NH-CH3] (1+) @ 658.42 &amp; bi2-2 (1+) @ 186.66         658.42         658.32           usable         [b6 - H3C-N=CH2 - NH3] (1+) @ 654.37 &amp; y2 (1+) @ y2 (1+) 275.92         654.37         655.28           usable         y5 (1+) @ 519.11 &amp; a2 (2+) @ 129.47         519.11         519.24           usable         y5 (1+) @ 485.29 &amp; [bi 6-7 - HCOOH] (1+) @ 212.85         485.29         485.26           internal_acid         y6 (2+) @ 352.4 &amp; bi2-2 (1+) @ 186.67         352.4         352.19           unclear         y5</td> <td>usable         [b7+H2O] (2+) @ 431.82 &amp; y1-H2O (1+)128.45         431.82         431.71         nan           internal_acid         bi3-6 (1+) @ 428.11 &amp; b2 (1+) @ 287.75         428.11         428.23         287.75           usable         y3 (1+) @ 405.0 &amp; b5 (2+) @ 293.55         405.0         405.2         293.55           usable         y4 (1+) @ 462.22 &amp; [a4-NH3] (2+) @ 242.05         462.22         462.22         242.05           usable         y4 (2+) @ 230.81 &amp; [a4-NH3] (1+) @ 485.42         230.81         231.61         485.42           unclear         y7-H2O (2+) 436.23 &amp; ??? @ 118.35         nan         nan         nan         118.35           usable         y5 (1+) @ 519.35 &amp; [b3 - CH3NHCH3 - H2O] (2+) @ 205.31         519.35         519.24         205.31           non_complementary         y1 (1+) @ 147.54 &amp; b6 (1+) @ 715.4         147.54         147.11         715.4           internal_acid         [y6 - CH3-NH-CH3] (1+) @ 658.42 &amp; bi2-2 (1+) @ 186.66         658.42         658.32         186.66           usable         J5 (1+) @ 519.11 &amp; a2 (2+) @ 129.47         519.11         519.24         129.47           usable         bi 2-5 (1+) @ 485.29 &amp; [bi 6-7 - HCOOH] (1+) @ 212.85         485.29         485.26         212.85           internal_acid         y6 (2+) @ 352.4 &amp; bi2-2 (1+) @ 186.6</td> <td>usable [b7+H2O] (2+) @ 431.82 &amp; y1-H2O (1+)128.45</td> <td>usable [b7+H2O] (2+) @ 431.82 &amp; y1-H2O (1+) 128.45</td> <td>usable         [b7+H2O] (2+) @ 431.82 &amp; y1-H2O (1+)128.45         431.82         431.71         nan         nan         nan         nan           internal_acid         bi3-6 (1+) @ 428.11 &amp; b2 (1+) @ 287.75         428.11         428.23         287.75         288.13         715.86         1143.97           usable         y3 (1+) @ 405.0 &amp; b5 (2+) @ 293.55         405.0         405.2         293.55         293.66         698.55         1103.55           usable         y4 (1+) @ 462.22 &amp; [a4-NH3] (2+) @ 242.05         462.22         462.22         242.05         242.63         704.27         1166.49           usable         y4 (2+) @ 230.81 &amp; [a4-NH3] (1+) @ 485.42         230.81         231.61         485.42         484.25         716.23         947.04           unclear         y7-H2O (2+) 436.23 &amp; ??? @ 118.35         nan         nan         nan         118.35         nan         nan</td> <td>usable         [b7+H2C] (2+) @ 431.82 &amp; y1-H2C) (1+)128.45         431.82         431.71         nan         nan</td>	usable         [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45         431.82         431.71           internal_acid         bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75         428.11         428.23           usable         y3 (1+) @ 405.0 & b5 (2+) @ 293.55         405.0         405.2           usable         y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05         462.22         462.22           usable         y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42         230.81         231.61           unclear         y7-H2O (2+) 436.23 & ??? @ 118.35         nan         nan           usable         y5 (1+) @ 519.35 & [b3 - CH3NHCH3 - H2O] (2+) @ 205.31         519.35         519.24           non_complementary         y1 (1+) @ 147.54 & b6 (1+) @ 715.4         147.54         147.11           internal_acid         [y6 - CH3-NH-CH3] (1+) @ 658.42 & bi2-2 (1+) @ 186.66         658.42         658.32           usable         [b6 - H3C-N=CH2 - NH3] (1+) @ 654.37 & y2 (1+) @ y2 (1+) 275.92         654.37         655.28           usable         y5 (1+) @ 519.11 & a2 (2+) @ 129.47         519.11         519.24           usable         y5 (1+) @ 485.29 & [bi 6-7 - HCOOH] (1+) @ 212.85         485.29         485.26           internal_acid         y6 (2+) @ 352.4 & bi2-2 (1+) @ 186.67         352.4         352.19           unclear         y5	usable         [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45         431.82         431.71         nan           internal_acid         bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75         428.11         428.23         287.75           usable         y3 (1+) @ 405.0 & b5 (2+) @ 293.55         405.0         405.2         293.55           usable         y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05         462.22         462.22         242.05           usable         y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42         230.81         231.61         485.42           unclear         y7-H2O (2+) 436.23 & ??? @ 118.35         nan         nan         nan         118.35           usable         y5 (1+) @ 519.35 & [b3 - CH3NHCH3 - H2O] (2+) @ 205.31         519.35         519.24         205.31           non_complementary         y1 (1+) @ 147.54 & b6 (1+) @ 715.4         147.54         147.11         715.4           internal_acid         [y6 - CH3-NH-CH3] (1+) @ 658.42 & bi2-2 (1+) @ 186.66         658.42         658.32         186.66           usable         J5 (1+) @ 519.11 & a2 (2+) @ 129.47         519.11         519.24         129.47           usable         bi 2-5 (1+) @ 485.29 & [bi 6-7 - HCOOH] (1+) @ 212.85         485.29         485.26         212.85           internal_acid         y6 (2+) @ 352.4 & bi2-2 (1+) @ 186.6	usable [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45	usable [b7+H2O] (2+) @ 431.82 & y1-H2O (1+) 128.45	usable         [b7+H2O] (2+) @ 431.82 & y1-H2O (1+)128.45         431.82         431.71         nan         nan         nan         nan           internal_acid         bi3-6 (1+) @ 428.11 & b2 (1+) @ 287.75         428.11         428.23         287.75         288.13         715.86         1143.97           usable         y3 (1+) @ 405.0 & b5 (2+) @ 293.55         405.0         405.2         293.55         293.66         698.55         1103.55           usable         y4 (1+) @ 462.22 & [a4-NH3] (2+) @ 242.05         462.22         462.22         242.05         242.63         704.27         1166.49           usable         y4 (2+) @ 230.81 & [a4-NH3] (1+) @ 485.42         230.81         231.61         485.42         484.25         716.23         947.04           unclear         y7-H2O (2+) 436.23 & ??? @ 118.35         nan         nan         nan         118.35         nan         nan	usable         [b7+H2C] (2+) @ 431.82 & y1-H2C) (1+)128.45         431.82         431.71         nan         nan

# [LGEY(nitro)GFQNAILVR+3H]3+

Fragmentation Diagram for: LGEYGFQNAILVR



	Cluster ID	Cluster Size	Median Mass (Da)	Difference from Actua	i Mass (Da)
0	0	8	1526.665		-0.10821
1	1	2	1412.500		-114.27321
2	2	2	1397.975		-128.79821
3	3	11	1509.040	NH3/H2O	-17.73321

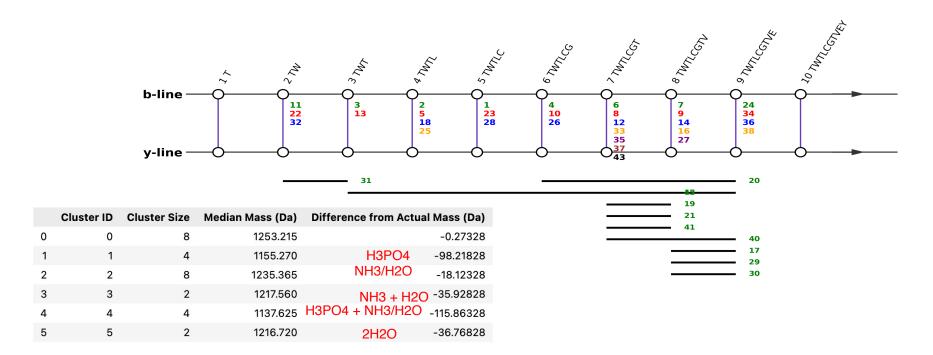
n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y6 (1+) @ 685.47 & b7 (2+) @ 420.68	685.47	685.44	420.68	420.68	1106.15	1791.62	1526.83	1526.83
2	usable	y2 (1+) @ 274.0 & b11 (2+) @ 626.38	274.0	274.19	626.38	626.3	900.38	1174.38	1526.76	1526.76

3	usable	y6 (2+) @ 343.18 & b7 (1+) @ 840.4	343.18	343.22	840.4	840.35	1183.58	1526.76	2023.98	1526.76
4	usable	y7 (2+) @ 407.31 & b6 (1+) @ 712.37	407.31	407.25	712.37	712.29	1119.68	1526.99	1832.05	1526.99
5	usable	y3 (1+) @ 387.15 & b10 (2+) @ 569.71	387.15	387.27	569.71	569.76	956.86	1344.01	1526.57	1526.57
6	non_complementary	y2 (1+) @ 273.94 & b10 (1+) @ 1138.46	273.94	274.19	1138.46	1138.52	1412.4	1686.34	2550.86	1412.4
7	usable	y1 (1+) @ 174.65 & b12 (2+) @ 675.8	174.65	175.12	675.8	675.84	850.45	1025.1	1526.25	1526.25
8	non_complementary	y3 (1+) @ 387.19 & b9 (1+) @ 1025.41	387.19	387.27	1025.41	1025.43	1412.6	1799.79	2438.01	1412.6
9	usable	c6 (1+) @ 729.52 & y6 (1+) @ 685.6	729.52	nan	685.6	685.44	1415.12	2144.64	2100.72	1415.12
10	non_complementary	y6 (1+) @ 685.52 & b6(1+) @ 712.65	685.52	685.44	712.65	712.29	1398.17	2083.69	2110.82	1398.17
11	usable	y3 (2+) @ 193.8 & [b10-NH3] (1+) @ 1121.15	193.8	194.14	1121.15	1121.49	1314.95	1508.75	2436.1	1508.75
12	internal_acid	b6 (1+) @ 712.35 & bi7-8 (1+) @ 242.83	712.35	712.29	242.83	243.11	955.18	1667.53	1198.01	1667.53
13	internal_acid	bi2-9 (1+) @ 912.43 & y4 (1+) 500.2	912.43	912.35	nan	nan	nan	nan	nan	nan
14	usable	y3 (1+) @ 387.1 & [b10-NH3] (2+) @ 560.95	387.1	387.27	560.95	561.25	948.05	1335.15	1509.0	1509.0
15	usable	y2 (1+) @ 274.1 & [b11-NH3] (2+) @ 617.47	274.1	274.19	617.47	617.79	891.57	1165.67	1509.04	1509.04
16	non_complementary	[y9-NH3] (2+) @ 500.36 & b8 (1+) @ 954.34	500.36	500.78	954.34	954.4	1454.7	1955.06	2409.04	1454.7
17	internal_acid	B6 (1+) 712.44 & [bi7-10 – HCONH2] (1+) 382.53	nan	nan	nan	nan	nan	nan	nan	nan
18	usable	[y7-NH3] (2+) @ 398.45 & b6 (1+) @ 712.41	398.45	398.74	712.41	712.29	1110.86	1509.31	1823.27	1509.31
19	usable	y1(1+) @ 174.59 & [b12-NH3] (2+) @ 666.97	174.59	175.12	666.97	667.32	841.56	1016.15	1508.53	1508.53
20	undefined	518.11 & 319.86	518.11	nan	319.86	nan	837.97	1356.08	1157.83	1356.08
21	usable	y4 (2+) @ 250.34 & b9 (1+) @ 1025.4	250.34	250.68	1025.4	1025.43	1275.74	1526.08	2301.14	1526.08
22	usable	y3 (1+) @ 387.14 & [a10-NH3] (2+) @ 547.28	387.14	387.27	547.28	547.24	934.42	1321.56	1481.7	1481.7
23	internal_acid	b7 (1+) @ 840.43 & [bi8-10 – HCONH2] (1+) @ 253.8	840.43	840.35	253.8	254.15	1094.23	1934.66	1348.03	1348.03
24	non_complementary	y1 (1+) @ 174.67 & b11 (1+) @ 1251.44	174.67	175.12	1251.44	1251.6	1426.11	1600.78	2677.55	1600.78
25	usable	y6 (2+) @ 343.17 & [b7-NH3] (1+) @ 822.63	343.17	343.22	822.63	823.33	1165.8	1508.97	1988.43	1508.97
26	internal_acid	b6 (1+) @ 712.2 & [bi7-8 – NH3] (1+) 225.78	712.2	712.29	nan	nan	nan	nan	nan	nan
27	internal_acid	bi3-9 (1+) @ 855.2 & y4 (1+) 500.38	855.2	855.33	nan	nan	nan	nan	nan	nan
28	undefined	840.47 & 298.93	840.47	nan	298.93	nan	1139.4	1979.87	1438.33	1438.33
29	usable	y4 (2+) @ 250.5 & [b9-NH3] (1+) @ 1008.11	250.5	250.68	1008.11	1008.41	1258.61	1509.11	2266.72	1509.11
30	internal_acid	[bi3-9 -H2O] (1+) @ 837.58 & y4 (1+) @ 500.18	837.58	837.32	500.18	500.36	1337.76	2175.34	1837.94	1337.76

31	usable	c7 (1+) @ 857.81 & [z6 – H2O] (1+) @ 325.64	857.81	nan	325.64	nan	1183.45	2041.26	1509.09	1509.09
32	usable	y5 (2+) @ 286.06 & b8 (1+) @ 954.34	286.06	286.2	954.34	954.4	1240.4	1526.46	2194.74	1526.46
33	usable	y10 (2+) @ 613.96 & b3 (1+) @ 299.83	613.96	613.32	299.83	300.16	913.79	1527.75	1213.62	1527.75
34	non_complementary	y6 (1+) @ 685.7 & b5 (1+) @ 565.38	685.7	685.44	565.38	565.23	1251.08	1936.78	1816.46	1251.08
35	usable	y2 (1+) @ 273.99 & ai10-11 (1+) @ 198.67	273.99	274.19	198.67	199.16	472.66	746.65	671.33	746.65
36	internal_acid	bi5-9 (1+) @ 518.33 & y4 (1+) @ 500.42	518.33	518.24	500.42	500.36	1018.75	1537.08	1519.17	1519.17
37	usable	y5 (2+) @ 286.06 & [b8-NH3] (1+) @ 937.39	286.06	286.2	937.39	937.37	1223.45	1509.51	2160.84	1509.51
38	internal_acid	b7 (1+) @ 840.79 & bi8-9 (1+) @ 185.67	840.79	840.35	185.67	186.09	1026.46	1867.25	1212.13	1212.13
39	usable	c11 (2+) @ 634.43 & [z2-H2O] (1+) @ 239.69	634.43	nan	239.69	nan	874.12	1508.55	1113.81	1508.55
40	undefined	447.1 & 337.82	447.1	nan	337.82	nan	784.92	1232.02	1122.74	1232.02
41	usable	[y10-NH3] (2+) @ 604.9 & b3 (1+) @ 299.81	604.9	604.81	299.81	300.16	904.71	1509.61	1204.52	1509.61
42	usable	bi(4-8) (1+) @ 655.43 & b3 (1+) @ 299.94	655.43	655.25	299.94	300.16	955.37	1610.8	1255.31	1610.8
43	undefined	537.05 & 461.15	537.05	nan	461.15	nan	998.2	1535.25	1459.35	1535.25
44	internal_acid	bi5-9 (1+) @ 518.15 & [bi3-4 – HCOOH] (1+) @ 291.85	518.15	518.24	291.85	292.09	810.0	1328.15	1101.85	1328.15
45	internal_acid	bi5-11 (1+) @ 744.47 & y2 (1+) @ 274.17	744.47	744.4	274.17	274.19	1018.64	1763.11	1292.81	1292.81
46	non_complementary	y1 (1+) @ 174.58 & b11 (2+) @ 626.04	174.58	175.12	626.04	626.3	800.62	975.2	1426.66	1426.66
47	undefined	524.22 & 313.54	524.22	nan	313.54	nan	837.76	1361.98	1151.3	1361.98
48	non_complementary	y2 (1+) @ 273.88 & [b10-NH3] (1+) @ 1122.11	273.88	274.19	1122.11	1121.49	1395.99	1669.87	2518.1	1395.99
49	non_complementary	y6 (1+) @ 685.28 & b6 (2+) @ 356.25	685.28	685.44	356.25	356.65	1041.53	1726.81	1397.78	1397.78
50	undefined	395.09 & 332.94	395.09	nan	332.94	nan	728.03	1123.12	1060.97	1123.12

# [TWT(p)LCGTVEY+2H]2+

Fragmentation Diagram for: TWTLCGTVEY



n	classification	line	mass1	correct_mass1	mass2	correct_mass2	m1+m2	2m1+m2	m1+2m2	chosen_sum
1	usable	y5 (1+) @ 568.12 & b5 (1+) @ 685.12	568.12	568.26	685.12	685.24	1253.24	1821.36	1938.36	1253.24
2	usable	y6 (1+) @ 671.16 & b4 (1+) @ 582.03	671.16	671.27	582.03	582.23	1253.19	1924.35	1835.22	1253.19

3	usable	y7 (1+) @ 784.38 & b3 (1+) @ 469.1	784.38	784.35	469.1	469.15	1253.48	2037.86	1722.58	1253.48
4	usable	y4 (1+) @ 511.14 & b6 (1+) @ 742.16	511.14	511.24	742.16	742.26	1253.3	1764.44	1995.46	1253.3
5	usable	y6 (1+) @ 671.17 & [b4-H3PO4] (1+) @ 484.11	671.17	671.27	484.11	484.26	1155.28	1826.45	1639.39	1155.28
6	usable	y3 (1+) @ 410.06 & b7 (1+) @ 843.07	410.06	410.19	843.07	843.31	1253.13	1663.19	2096.2	1253.13
7	usable	[y2-NH3] (1+) @ 292.81 & b8 (1+) @ 942.06	292.81	294.1	942.06	942.38	1234.87	1527.68	2176.93	1234.87
8	usable	y3 (1+) @ 410.14 & [b7-H3PO4] (1+) @ 745.45	410.14	410.19	745.45	745.33	1155.59	1565.73	1901.04	1155.59
9	usable	[y2-H2O] (1+) @ 292.99 & [b8-NH3] (1+) @ 924.66	292.99	293.11	924.66	925.35	1217.65	1510.64	2142.31	1217.65
10	usable	y4 (1+) @ 511.35 & [b6-H3PO4] (1+) @ 644.83	511.35	511.24	644.83	644.29	1156.18	1667.53	1801.01	1156.18
11	usable	[y8-NH3] (1+) @ 949.32 & b2 (1+) @ 287.66	949.32	948.34	287.66	288.13	1236.98	2186.3	1524.64	1236.98
12	usable	y3 (1+) @ 410.08 & [b7-NH3] (1+) @ 825.18	410.08	410.19	825.18	826.28	1235.26	1645.34	2060.44	1235.26
13	usable	[y7-NH3] (1+) @ 766.69 & b3 (1+) @ 469.17	766.69	767.33	469.17	469.15	1235.86	2002.55	1705.03	1235.86
14	usable	y2 (1+) @ 310.82 & b8 (1+) @ 941.96	310.82	311.12	941.96	942.38	1252.78	1563.6	2194.74	1252.78
15	non_complementary	b9 (1+) @ 942.37 & [y2 – HCOOH – H2O] (1+) @ 246.94	942.37	1071.42	246.94	247.11	1189.31	2131.68	1436.25	1189.31
16	usable	y2 (1+) @ 310.96 & [b8-NH3] (1+) @ 924.24	310.96	311.12	924.24	925.35	1235.2	1546.16	2159.44	1235.2
17	internal_acid	b7 (1+) @ 843.12 & bi8-9 (1+) @ 228.81	843.12	843.31	228.81	229.12	1071.93	1915.05	1300.74	1300.74
18	usable	[y6-NH3] (1+) @ 653.25 & [b4-H3PO4] (1+) @ 484.86	653.25	654.24	484.86	484.26	1138.11	1791.36	1622.97	1138.11
19	non_complementary	[y2-NH3] (1+) @ 292.74 & b7 (1+) @ 844.74	292.74	294.1	844.74	843.31	1137.48	1430.22	1982.22	1137.48
20	internal_acid	b5 (1+) @ 685.65 & bi6-9 (1+) @ 387.07	685.65	685.24	387.07	387.19	1072.72	1758.37	1459.79	1072.72
21	non_complementary	y2 (1+) @ 310.67 & b7 (1+) @ 844.47	310.67	311.12	844.47	843.31	1155.14	1465.81	1999.61	1155.14
22	usable	[y8-NH3] (1+) @ 947.45 & a2 (1+) @ 259.8	947.45	948.34	259.8	260.12	1207.25	2154.7	1467.05	1207.25
23	usable	y5 (1+) @ 568.07 & [b5-H3PO4] (1+) @ 587.19	568.07	568.26	587.19	587.26	1155.26	1723.33	1742.45	1155.26
24	usable	y1 (1+) @ 181.5 & [b9-NH3] (1+) @ 1053.38	181.5	182.08	1053.38	1054.4	1234.88	1416.38	2288.26	1234.88
25	usable	[y6-NH3] (1+) @ 653.29 & b4 (1+) @ 582.18	653.29	654.24	582.18	582.23	1235.47	1888.76	1817.65	1235.47
26	usable	y4 (1+) @ 511.3 & [b6-NH3] (1+) @ 724.3	511.3	511.24	724.3	725.24	1235.6	1746.9	1959.9	1235.6
27	usable	[b8-H2O] (1+) @ 924.37 & [y2 – HCOOH – H2O] (1+) @ 246.98	924.37	924.37	246.98	247.11	1171.35	2095.72	1418.33	1171.35
28	usable	[y5-NH3] (1+) @ 550.54 & b5 (1+) @ 685.25	550.54	551.23	685.25	685.24	1235.79	1786.33	1921.04	1235.79
29	internal_acid	[b7-H2O] (1+) @ 825.19 & bi8-9 (1+) @ 228.81	825.19	825.3	228.81	229.12	1054.0	1879.19	1282.81	1282.81
30	internal_acid	[b7-H3PO4] (1+) 745.72 & bi8-9 (1+) @ 228.74	nan	nan	228.74	229.12	nan	nan	nan	nan

31	non_complementary	y7 (1+) @ 784.12 & b2 (1+) @ 287.76	784.12	784.35	287.76	288.13	1071.88	1856.0	1359.64	1359.64
32	usable	y8 (1+) @ 965.41 & b2 (1+) @ 287.94	965.41	965.37	287.94	288.13	1253.35	2218.76	1541.29	1253.35
33	usable	[b7-2(H2O)]/[b7-NH3-H2O] (1+) @ 807.36 & y3 (1+) @ 410.11	807.36	nan	410.11	410.19	1217.47	2024.83	1627.58	1217.47
34	usable	y1(1+) @ 181.74 & [b9-H3PO4] (1+) @ 973.65	181.74	182.08	973.65	973.44	1155.39	1337.13	2129.04	1337.13
35	usable	[b7-H3PO4-H2O] (1+) @ 727.27 & y3 (1+) @ 410.25	727.27	727.32	410.25	410.19	1137.52	1864.79	1547.77	1137.52
36	usable	y1 (1+) @ 181.38 & b9 (1+) @ 1071.1	181.38	182.08	1071.1	1071.42	1252.48	1433.86	2323.58	1252.48
37	usable	b7 (1+) @ 843.61 & ai8-9 (1+) @ 200.62	843.61	843.31	200.62	201.11	1044.23	1887.84	1244.85	1244.85
38	usable	[b9-H3PO4-H2O] (1+) @ 955.76 & y1 (1+) 181.5	955.76	955.43	nan	nan	nan	nan	nan	nan
39	unclear	??? @ 867.7 & [y2 – H2O] (1+) @ 291.9	867.7	nan	291.9	293.11	1159.6	2027.3	1451.5	1159.6
40	internal_acid	b6 (1+) @ 743.52 & bi7-9 (1+) @ 329.71	743.52	742.26	329.71	330.17	1073.23	1816.75	1402.94	1402.94
41	non_complementary	y2 (1+) @ 311.27 & [b7-NH3] (1+) @ 826.46	311.27	311.12	826.46	826.28	1137.73	1449.0	1964.19	1137.73
42	internal_acid	bi3-8 (1+) @ 627.78 & y2 (1+) @ 310.79	627.78	655.25	310.79	311.12	938.57	1566.35	1249.36	1249.36
43	usable	[y3-NH3] (1+) @ 392.06 & [b7-NH3] (1+) @ 824.85	392.06	393.17	824.85	826.28	1216.91	1608.97	2041.76	1216.91
44	undefined	728.32 & 569.4	728.32	nan	569.4	nan	1297.72	2026.04	1867.12	1297.72
45	undefined	844.84 & 274.35	844.84	nan	274.35	nan	1119.19	1964.03	1393.54	1119.19
46	undefined	844.25 & 806.82	844.25	nan	806.82	nan	1651.07	2495.32	2457.89	1651.07
47	undefined	587.33 & 538.42	587.33	nan	538.42	nan	1125.75	1713.08	1664.17	1125.75
48	undefined	535.98 & 435.95	535.98	nan	435.95	nan	971.93	1507.91	1407.88	1407.88
49	undefined	939.22 & 609.33	939.22	nan	609.33	nan	1548.55	2487.77	2157.88	1548.55
50	undefined	941.73 & 274.8	941.73	nan	274.8	nan	1216.53	2158.26	1491.33	1216.53